

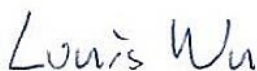


FCC CO-LOCATION RADIO TEST REPORT

FCC ID : TVE-240604
Equipment : Network Security Gateway
Brand Name : FORTINET 
Model Name : FortiWiFi 70Gxxxxxxxxxx, FORTIWIFI-70Gxxxxxxxxxx,
FWF-70Gxxxxxxxxxx,
FortiWiFi 71Gxxxxxxxxxx, FORTIWIFI-71Gxxxxxxxxxx,
FWF-71Gxxxxxxxxxx
(where "x" can be used as "0-9", or "A-Z", or "-", or blank
for software changes or marketing purposes only)
Applicant : Fortinet Inc.
909 Kifer Rd., Sunnyvale, CA 94086, United States
Manufacturer : Fortinet Inc.
909 Kifer Rd., Sunnyvale, CA 94086, United States
Standard : FCC Part 15 Subpart C §15.247
FCC Part 15 Subpart E §15.407

The product was received on Jun. 15, 2024 and testing was performed from Jul. 05, 2024 to Aug. 26, 2024. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.



Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FR452223E	01	Initial issue of report	Oct. 09, 2024



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(d) 15.407(b)	Unwanted Emissions	Pass	1.11 dB under the limit at 5421.53 MHz
3.2	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturee who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Yun Huang**Report Producer: Michelle Chen**

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs Bluetooth-LE, Wi-Fi 2.4GHz 802.11b/g/n/ax, and Wi-Fi 5GHz 802.11a/n/ac/ax
Antenna Type Bluetooth-LE: Monopole Antenna WLAN: <Ant. 1>: Dipole Antenna <Ant. 2>: Dipole Antenna <Ant. 3>: Dipole Antenna

Antenna information		
2400 MHz ~ 2483.5 MHz (Bluetooth-LE)	Peak Gain (dBi)	1.53
2400 MHz ~ 2483.5 MHz (WLAN)	Peak Gain (dBi)	Ant. 1: 3.24 Ant. 2: 3.24 Ant. 3: 3.24
5150 MHz ~ 5250 MHz (WLAN)	Peak Gain (dBi)	Ant. 1: 3.27 Ant. 2: 3.27 Ant. 3: 3.27
5250 MHz ~ 5350 MHz (WLAN)	Peak Gain (dBi)	Ant. 1: 2.60 Ant. 2: 2.60 Ant. 3: 2.60
5470 MHz ~ 5725 MHz (WLAN)	Peak Gain (dBi)	Ant. 1: 2.01 Ant. 2: 2.01 Ant. 3: 2.01
5725 MHz ~ 5850 MHz (WLAN)	Peak Gain (dBi)	Ant. 1: 1.58 Ant. 2: 1.58 Ant. 3: 1.58

Remark:

1. Antenna 3 is used for receiving only.
2. The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

Model differences description		
Model Feature	FWF-71G	FWF-70G
M.2 SSD	V	X

Remark: All the tests were performed with Model: FWF-71G

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. 03CH22-HY

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW3786

1.4 Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart E
- ♦ FCC Part 15 Subpart C §15.247
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.

2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in two antenna degrees (Ant. degrees 0 and Ant. degrees 90), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.

2.1 Carrier Frequency and Channel

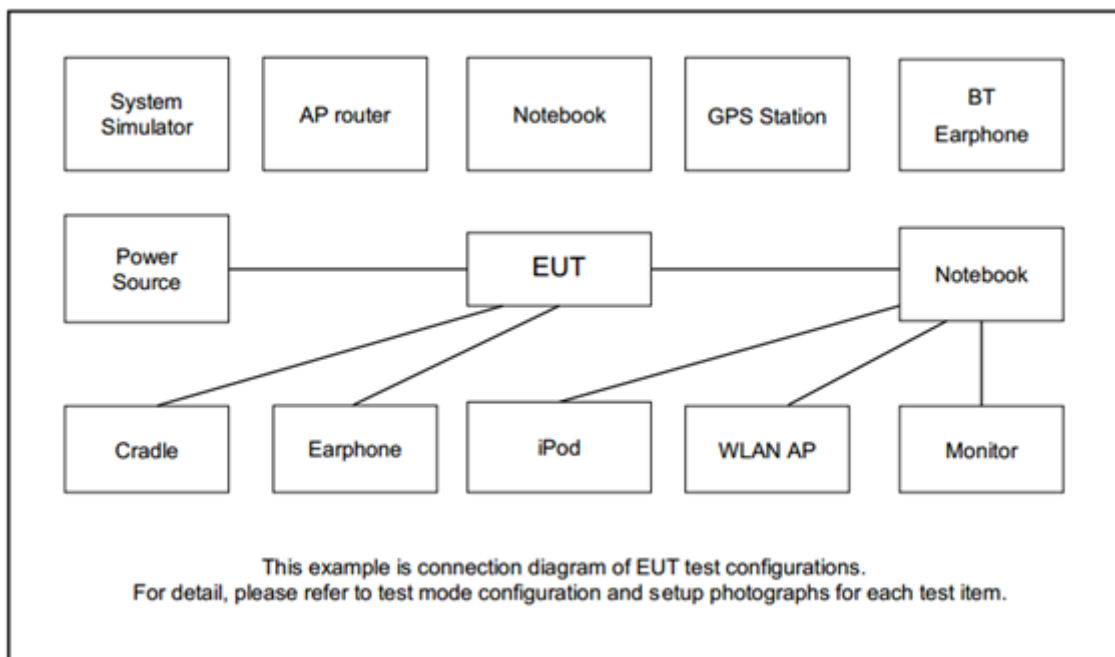
2400-2483.5 MHz			
Bluetooth - LE		802.11ax HE40	
Channel	Freq. (MHz)	Channel	Freq. (MHz)
39	2480	6	2437

5470-5725 MHz	
802.11a	
Channel	Freq. (MHz)
116	5580

<Co-Location>

Modulation	Data Rate
2.4GHz Bluetooth-LE GFSK <Ant. 1> + 2.4GHz 802.11ax HE40 for MIMO <Ant. 1+2>	500kbps + MCS0
2.4GHz Bluetooth-LE GFSK <Ant. 1> + 5GHz 802.11a for MIMO <Ant. 1+2>	500kbps + 6Mbps

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Notebook	Dell	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

2.4 EUT Operation Test Setup

The RF test items, utility "QA Tool 0.0.2.78" was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

3 Test Result

3.1 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

3.1.1 Limit of Unwanted Emissions

- (1) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

Note: The following formula is used to convert the EIRP to field strength.

$$E = \frac{1000000\sqrt{30P}}{3} \quad \mu\text{V/m, where P is the eirp (Watts)}$$

EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27	68.3

- (2) KDB789033 D02 v02r01 G)2)c)

(i) Sections 15.407(b)(1-3) specifies the unwanted emissions limit for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz.

(ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.

3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.



3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.

(1) Procedure for Unwanted Emissions Measurements Below 1000 MHz

- RBW = 120 kHz
- VBW = 300 kHz
- Detector = Peak
- Trace mode = max hold

(2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz

- RBW = 1 MHz
- VBW $\geq$ 3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

(3) Use the following spectrum analyzer settings:

For average measurement:

The procedure for method trace averaging is as follows:

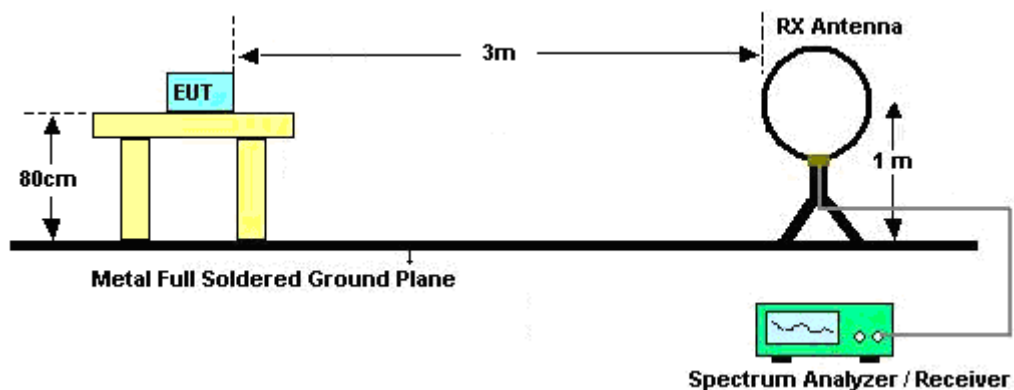
- a) RBW = 1 MHz.
- b) VBW $\geq$ $[3 \times \text{RBW}]$.
- c) Detector = RMS (power averaging), if $[\text{span} / (\# \text{ of points in sweep})] \leq \text{RBW} / 2$. Satisfying this condition can require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, then the detector mode shall be set to peak.
- d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging.
- e) Sweep time = auto.
- f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of $1 / D$, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)

g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:

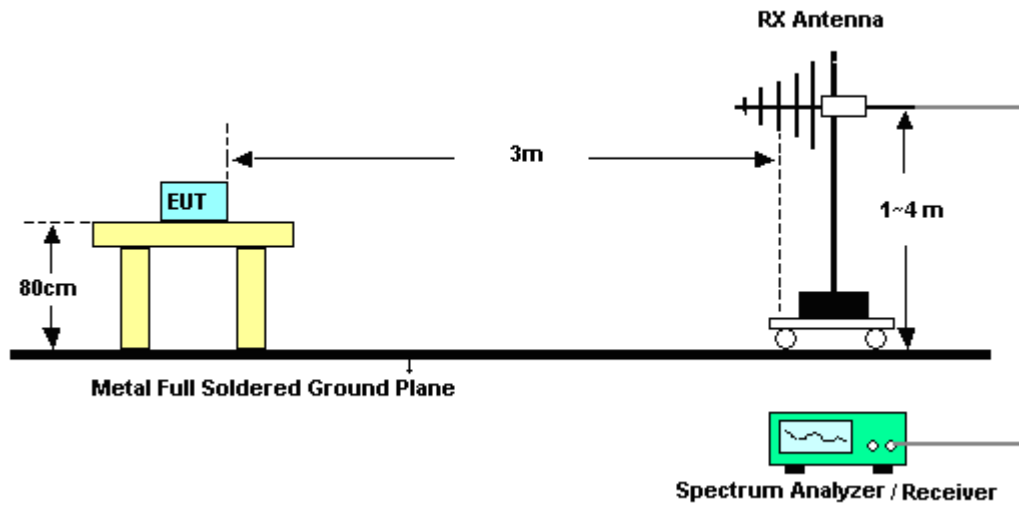
- 1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is $[10 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.
- 2) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

3.1.4 Test Setup

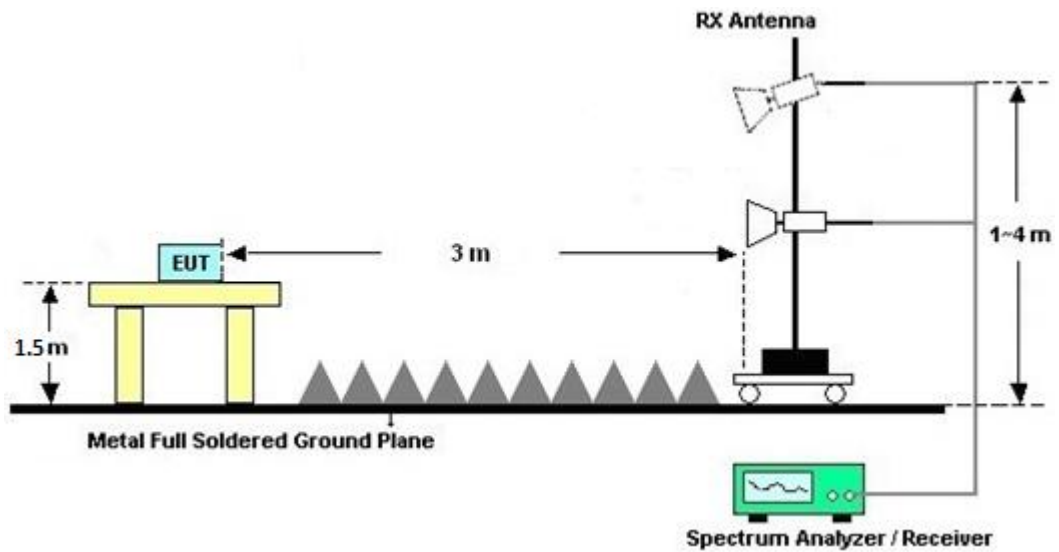
For radiated emissions below 30MHz



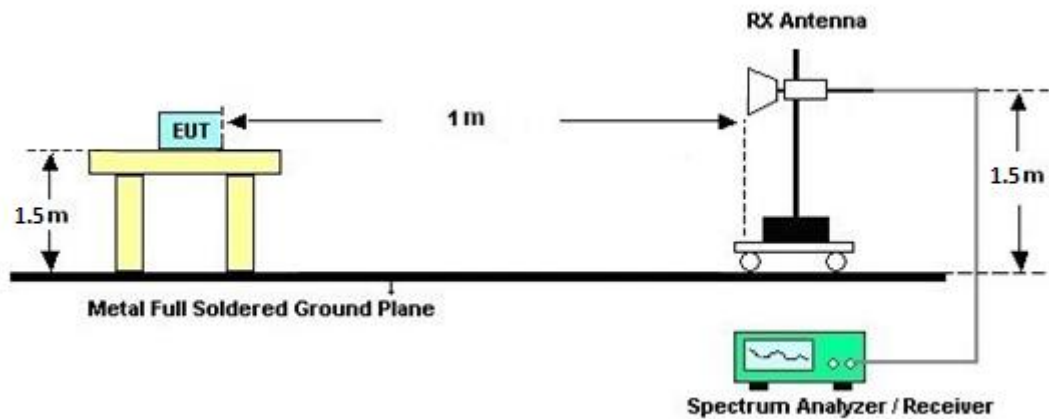
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



3.1.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.1.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix A.

3.1.7 Duty Cycle

Please refer to Appendix B.

3.1.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix A.



3.2 Antenna Requirements

3.2.1 Standard Applicable

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.2.2 Antenna Anti-Replacement Construction

The EUT requires professional installation.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9kHz~30MHz	Sep. 12, 2023	Jul. 05, 2024~ Aug. 26, 2024	Sep. 11, 2024	Radiation (03CH22-HY)
Bilog Antenna with 6dB	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	63304 & 002	30MHz~1GHz	Oct. 15, 2023	Jul. 05, 2024~ Aug. 26, 2024	Oct. 14, 2024	Radiation (03CH22-HY)
Amplifier	SONOMA	310N	421581	N/A	Jul. 15, 2023	Jul. 05, 2024~ Jul. 13, 2024	Jul. 14, 2024	Radiation (03CH22-HY)
Amplifier	SONOMA	310N	421581	N/A	Jul. 14, 2024	Jul. 14, 2024~ Aug. 26, 2024	Jul. 13, 2025	Radiation (03CH22-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1212	1GHz~18GHz	Mar. 21, 2024	Jul. 05, 2024~ Aug. 26, 2024	Mar. 20, 2024	Radiation (03CH22-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C04A18EN	1GHz~18GHz	Jul. 12, 2023	Jul. 05, 2024~ Jul. 10, 2024	Jul. 11, 2024	Radiation (03CH22-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C04A18EN	1GHz~18GHz	Jul. 11, 2024	Jul. 11, 2024~ Aug. 26, 2024	Jul. 10, 2025	Radiation (03CH22-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	1223	18GHz~40GHz	Jun. 24, 2024	Jul. 05, 2024~ Aug. 26, 2024	Jun. 23, 2025	Radiation (03CH22-HY)
Amplifier	EMEC	EM01G18GA	060877	N/A	Sep. 28, 2023	Jul. 05, 2024~ Aug. 26, 2024	Sep. 27, 2024	Radiation (03CH22-HY)
Preamplifier	EMEC	EM18G40G	060872	18-40GHz	Sep. 06, 2023	Jul. 05, 2024~ Aug. 26, 2024	Sep. 05, 2024	Radiation (03CH22-HY)
Signal Analyzer	Keysight	N9010B	MY62170278	10Hz~44GHz	Aug. 31, 2023	Jul. 05, 2024~ Aug. 26, 2024	Aug. 30, 2024	Radiation (03CH22-HY)
Hygrometer	TECPEL	DTM-303A	TP211469	N/A	Jan. 03, 2024	Jul. 05, 2024~ Aug. 26, 2024	Jan. 02, 2025	Radiation (03CH22-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Jul. 05, 2024~ Aug. 26, 2024	N/A	Radiation (03CH22-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jul. 05, 2024~ Aug. 26, 2024	N/A	Radiation (03CH22-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jul. 05, 2024~ Aug. 26, 2024	N/A	Radiation (03CH22-HY)
Software	Audix	E3 6.09824_2019122	RK-002347	N/A	N/A	Jul. 05, 2024~ Aug. 26, 2024	N/A	Radiation (03CH22-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 06, 2024	Jul. 05, 2024~ Aug. 26, 2024	Mar. 05, 2025	Radiation (03CH22-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804390/2,8046 11/2,804615/2	N/A	Oct. 24, 2023	Jul. 05, 2024~ Aug. 26, 2024	Oct. 23, 2024	Radiation (03CH22-HY)



5 Measurement Uncertainty

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.5 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.5 dB
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Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.5 dB
--	--------

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.4 dB
--	--------



Appendix A. Radiated Spurious Emission Test Data

Test Engineer :	Fred Tseng and Karl Hou	Temperature :	18.2~20.8°C
		Relative Humidity :	54.1~63.4%

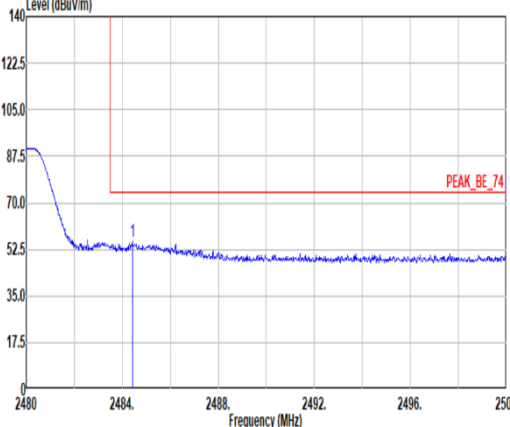
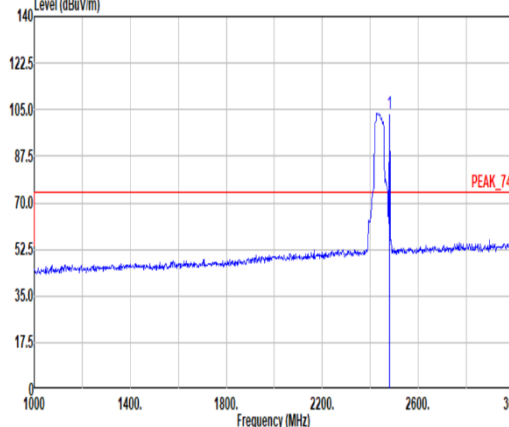
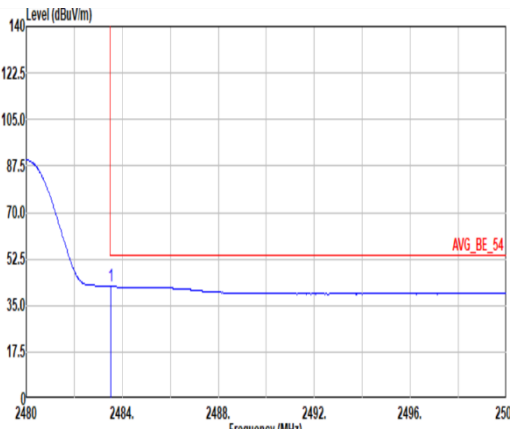
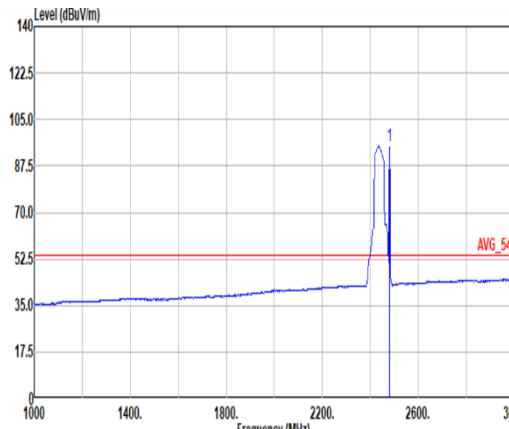
A1. Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	SISO	Bluetooth-LE_GFSK	39	2480	500kbps	-	-
	2400-2483.5	1+2	802.11ax HE40	06	2437	MCS0	-	-
Mode 2	2400-2483.5	SISO	Bluetooth-LE_GFSK	39	2480	500kbps	-	-
	5.47-5.725	1+2	802.11a	116	5580	6Mbps	-	-

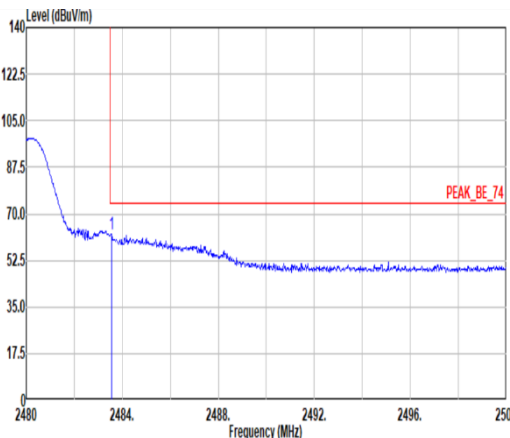
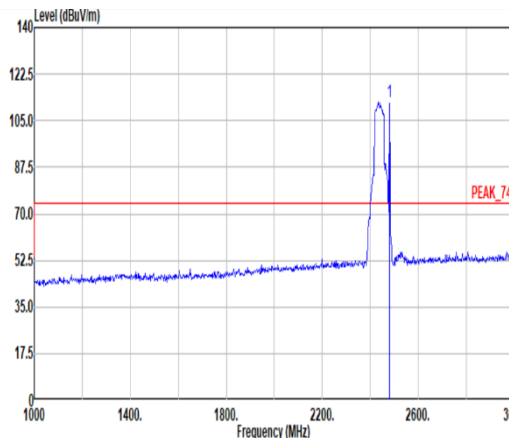
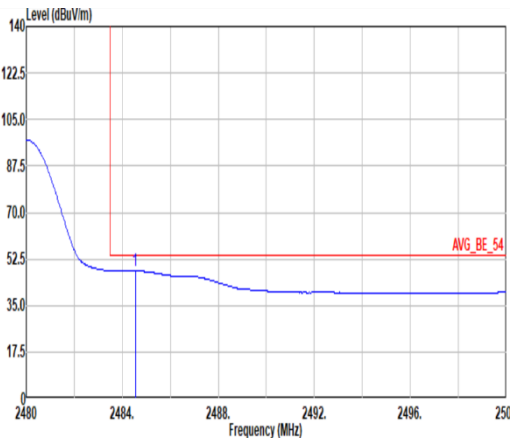
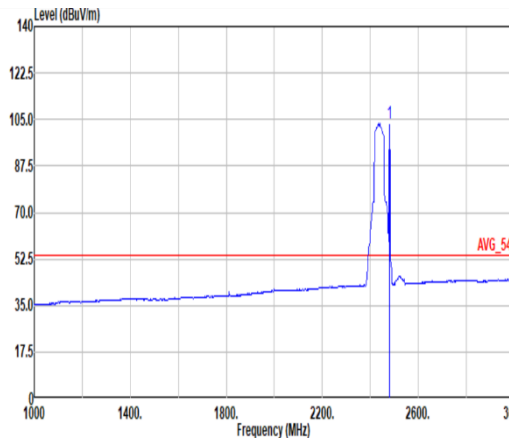
**A2. Summary of each worse mode**

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
1	Bluetooth-LE_GSKF + 802.11ax HE40	39 + 06	2489.8	50.54	54.00	-3.46	V	Avg.	Pass	-	Band Edge
			7440	51.93	54.00	-2.07	H	Avg.	Pass	-	Harmonic
			25024	41.75	74.00	-32.25	V	Peak	Pass	-	SHF
			742.95	35.58	46.00	-10.42	V	Peak	Pass	-	LF
2	Bluetooth-LE_GSKF + 802.11a	39 + 116	5421.53	52.89	54.00	-1.11	V	Avg.	Pass	-	Band Edge
			7440	52.23	54.00	-1.77	H	Avg.	Pass	-	Harmonic
			39501.93	49.71	74.00	-24.29	H	Peak	Pass	-	SHF
			41.64	33.94	46.00	-6.06	V	Peak	Pass	-	LF

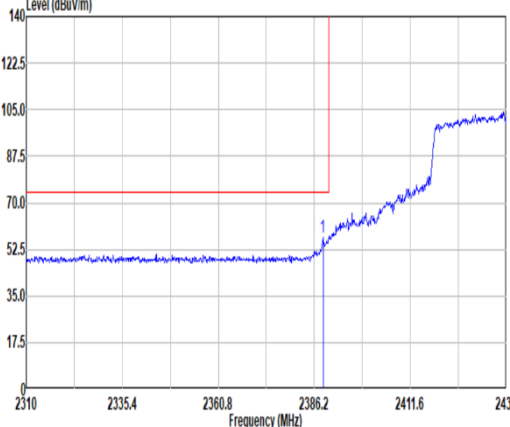
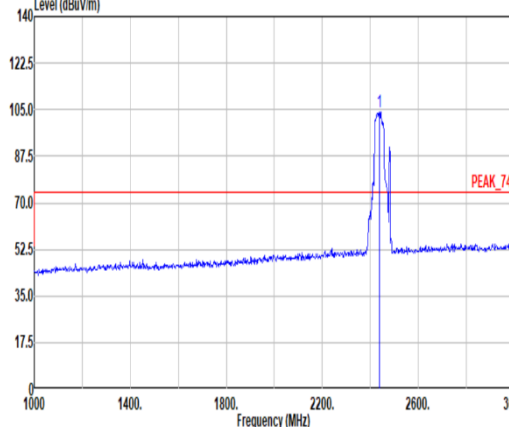
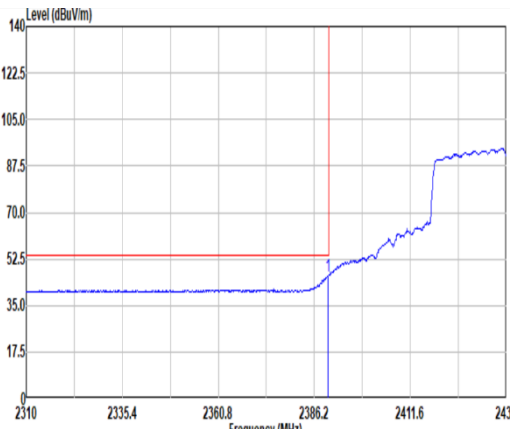
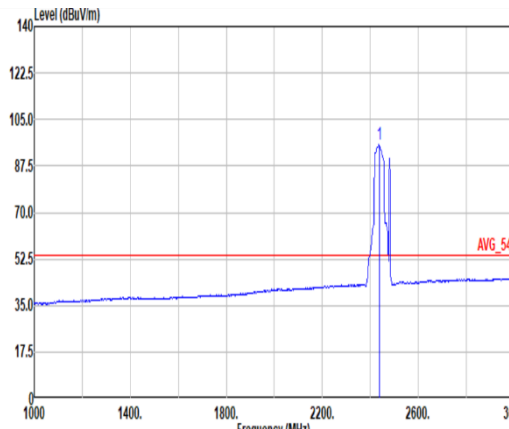


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Mode	Band Edge																																																																																																	
	2400-2483.5_Bluetooth-LE_GFSK_CH39_2480MHz																																																																																																	
ANT	SISO																																																																																																	
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	Site : 03CH22-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C04A18EN_240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto						Site : 03CH22-HY Condition: PEAK_74 3m DRH18-E_LE2C04A18EN_240711 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto																																																																																											
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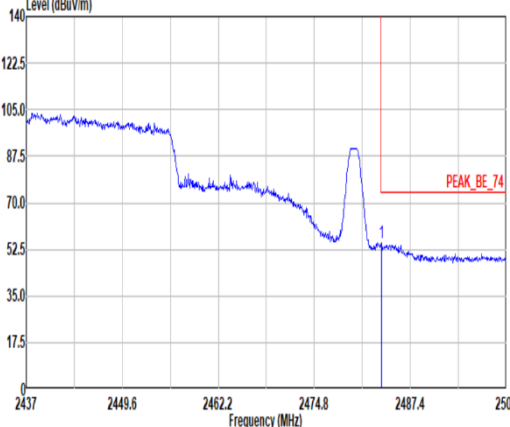
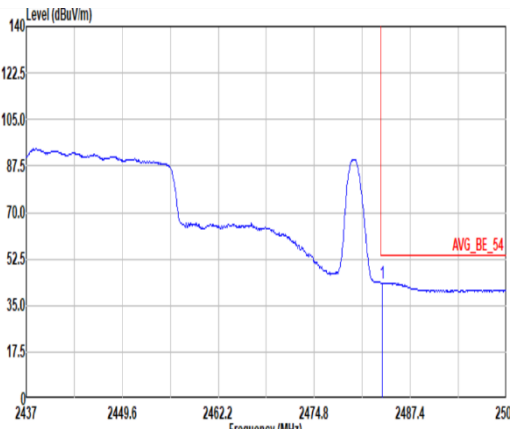


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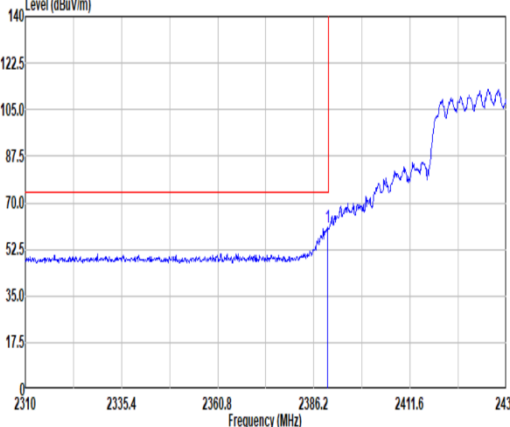
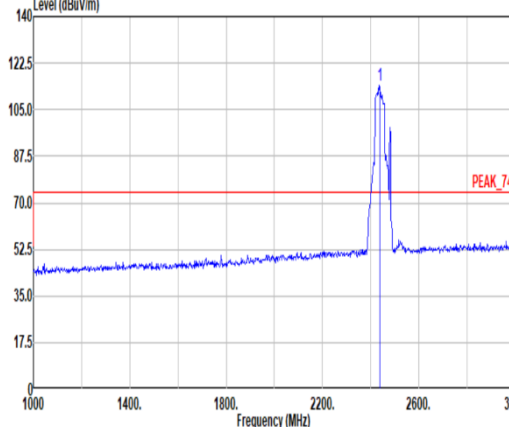
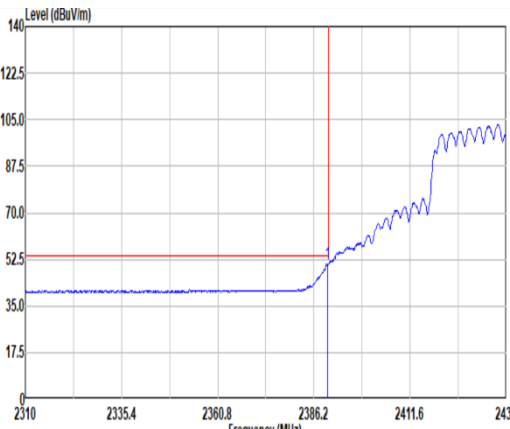
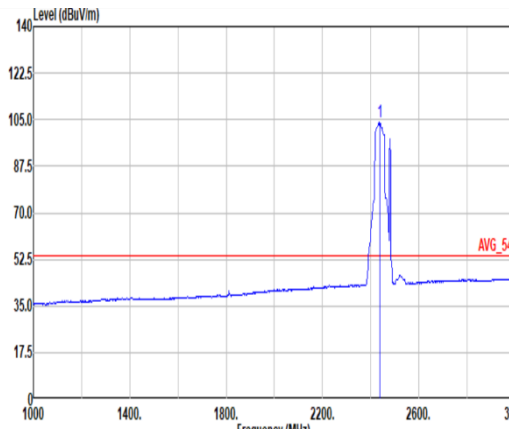


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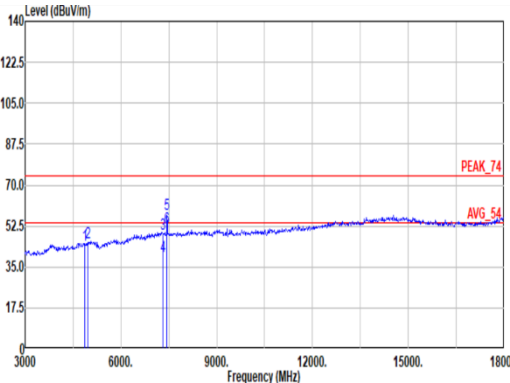
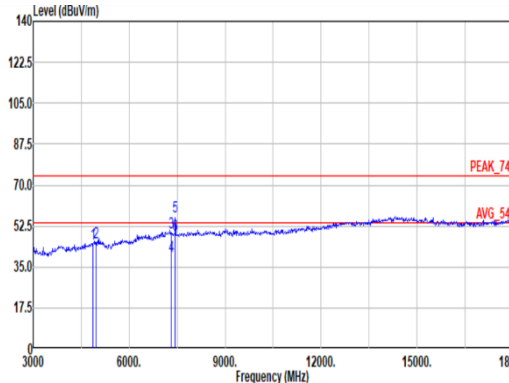


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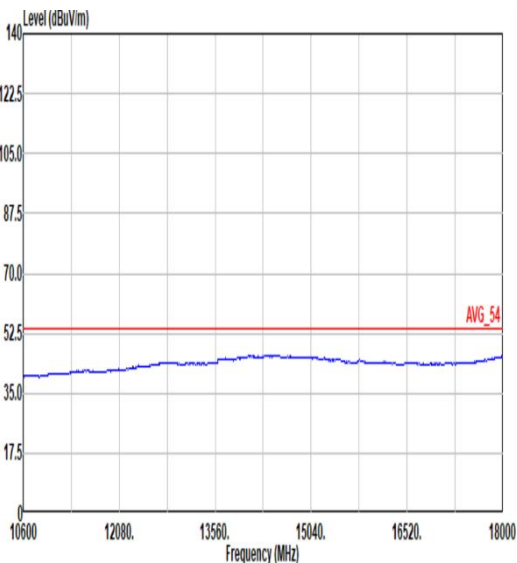
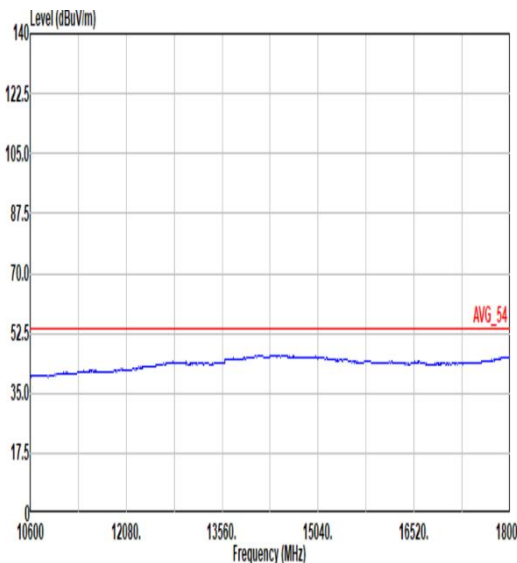


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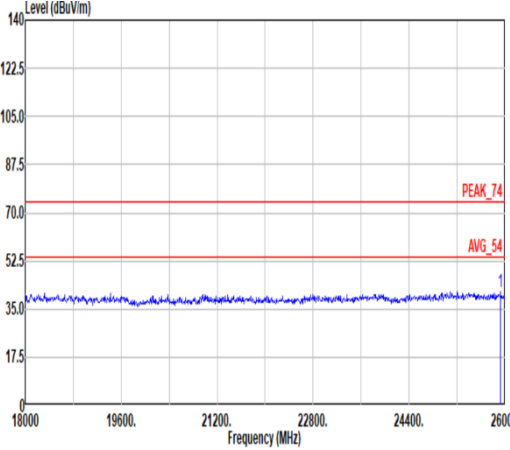
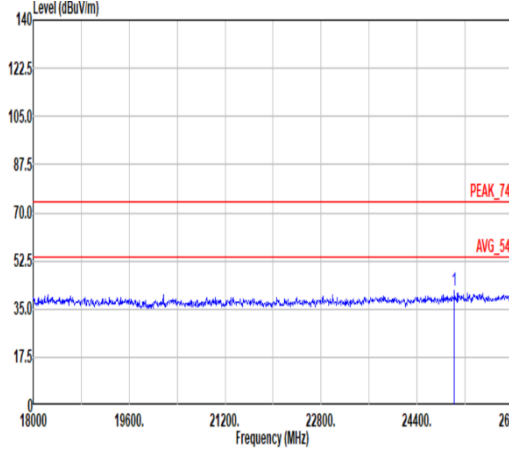


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Peak	 Site : 03CH22-HY Condition: PEAK_74 3m DRH18-E_LE2C04A18EN_240711 HORIZONTAL <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm deg</th></tr><tr><td>1 4874.00</td><td>44.62</td><td>74.00</td><td>-29.38</td><td>32.59</td><td>32.45</td><td>12.36</td><td>33.49</td><td>0.71</td><td>-- -- Peak</td></tr><tr><td>2 4968.00</td><td>45.20</td><td>74.00</td><td>-28.80</td><td>32.86</td><td>32.70</td><td>12.42</td><td>33.47</td><td>0.69</td><td>-- -- Peak</td></tr><tr><td>3 7311.00</td><td>49.10</td><td>74.00</td><td>-24.90</td><td>31.74</td><td>37.20</td><td>15.36</td><td>35.84</td><td>0.64</td><td>-- -- Peak</td></tr><tr><td>4 7311.00</td><td>39.81</td><td>54.00</td><td>-14.19</td><td>22.45</td><td>37.20</td><td>15.36</td><td>35.84</td><td>0.64</td><td>-- -- Average</td></tr><tr><td>5 7440.00</td><td>57.57</td><td>74.00</td><td>-16.43</td><td>40.09</td><td>37.26</td><td>15.52</td><td>35.93</td><td>0.63</td><td>118 110 Peak</td></tr><tr><td>6 7440.00</td><td>51.93</td><td>54.00</td><td>-2.07</td><td>34.45</td><td>37.26</td><td>15.52</td><td>35.93</td><td>0.63</td><td>118 110 Average</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm deg	1 4874.00	44.62	74.00	-29.38	32.59	32.45	12.36	33.49	0.71	-- -- Peak	2 4968.00	45.20	74.00	-28.80	32.86	32.70	12.42	33.47	0.69	-- -- Peak	3 7311.00	49.10	74.00	-24.90	31.74	37.20	15.36	35.84	0.64	-- -- Peak	4 7311.00	39.81	54.00	-14.19	22.45	37.20	15.36	35.84	0.64	-- -- Average	5 7440.00	57.57	74.00	-16.43	40.09	37.26	15.52	35.93	0.63	118 110 Peak	6 7440.00	51.93	54.00	-2.07	34.45	37.26	15.52	35.93	0.63	118 110 Average	 Site : 03CH22-HY Condition: PEAK_74 3m DRH18-E_LE2C04A18EN_240711 VERTICAL <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm deg</th></tr><tr><td>1 4874.00</td><td>44.87</td><td>74.00</td><td>-29.13</td><td>32.84</td><td>32.45</td><td>12.36</td><td>33.49</td><td>0.71</td><td>-- -- Peak</td></tr><tr><td>2 4968.00</td><td>45.52</td><td>74.00</td><td>-28.48</td><td>33.18</td><td>32.70</td><td>12.42</td><td>33.47</td><td>0.69</td><td>-- -- Peak</td></tr><tr><td>3 7311.00</td><td>49.43</td><td>74.00</td><td>-24.57</td><td>32.07</td><td>37.20</td><td>15.36</td><td>35.84</td><td>0.64</td><td>-- -- Peak</td></tr><tr><td>4 7311.00</td><td>39.72</td><td>54.00</td><td>-14.28</td><td>22.36</td><td>37.20</td><td>15.36</td><td>35.84</td><td>0.64</td><td>-- -- Average</td></tr><tr><td>5 7440.00</td><td>56.29</td><td>74.00</td><td>-17.71</td><td>38.81</td><td>37.26</td><td>15.52</td><td>35.93</td><td>0.63</td><td>400 187 Peak</td></tr><tr><td>6 7440.00</td><td>48.82</td><td>54.00</td><td>-5.18</td><td>31.34</td><td>37.26</td><td>15.52</td><td>35.93</td><td>0.63</td><td>400 187 Average</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm deg	1 4874.00	44.87	74.00	-29.13	32.84	32.45	12.36	33.49	0.71	-- -- Peak	2 4968.00	45.52	74.00	-28.48	33.18	32.70	12.42	33.47	0.69	-- -- Peak	3 7311.00	49.43	74.00	-24.57	32.07	37.20	15.36	35.84	0.64	-- -- Peak	4 7311.00	39.72	54.00	-14.28	22.36	37.20	15.36	35.84	0.64	-- -- Average	5 7440.00	56.29	74.00	-17.71	38.81	37.26	15.52	35.93	0.63	400 187 Peak	6 7440.00	48.82	54.00	-5.18	31.34	37.26	15.52	35.93	0.63	400 187 Average
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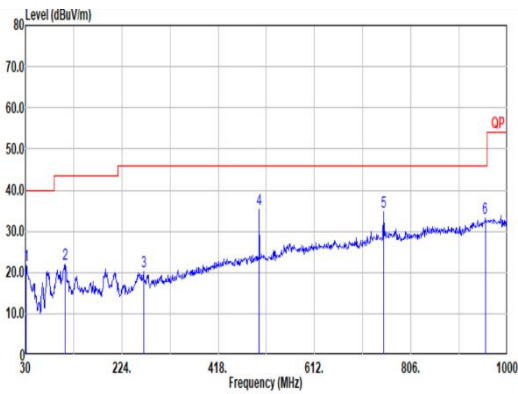
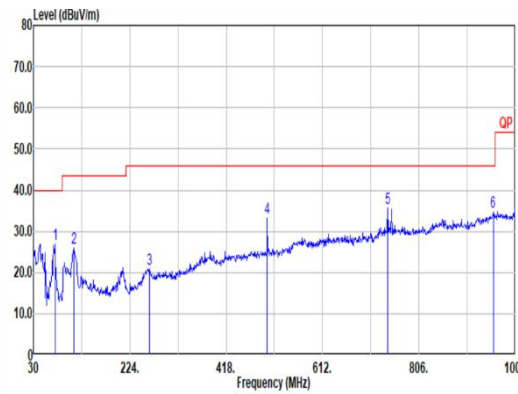


Mode	1	
	Harmonic	
	2400-2483.5_Bluetooth-LE_GFSK_CH39_2480MHz	
	2400-2483.5_802.11ax HE40_CH06_2437MHz	
Pol.	Horizontal	Vertical
10.6G ~18G Avg	 Site : 03CH22-HY Condition: AVG_54 3m DRH18-E_LE2C04A18EN_240711 HORIZONTAL	 Site : 03CH22-HY Condition: AVG_54 3m DRH18-E_LE2C04A18EN_240711 VERTICAL



Mode	1																																																																																							
	SHF																																																																																							
	2400-2483.5_Bluetooth-LE_GFSK_CH39_2480MHz																																																																																							
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Pol.	Horizontal	Vertical																																																																																						
Peak	 Site : 03CH22-HY Condition: PEAK_74 1m SHF_1224_240624 HORIZONTAL <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>25928.00</td><td>41.16</td><td>74.00</td><td>-32.84</td><td>41.70</td><td>39.30</td><td>29.90</td><td>60.20</td><td>-9.54</td><td>100</td><td>292 Peak</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	25928.00	41.16	74.00	-32.84	41.70	39.30	29.90	60.20	-9.54	100	292 Peak	 Site : 03CH22-HY Condition: PEAK_74 1m SHF_1224_240624 VERTICAL <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>25024.00</td><td>41.75</td><td>74.00</td><td>-32.25</td><td>41.94</td><td>39.55</td><td>29.33</td><td>59.53</td><td>-9.54</td><td>100</td><td>274 Peak</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	25024.00	41.75	74.00	-32.25	41.94	39.55	29.33	59.53	-9.54	100	274 Peak
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark																																																																															
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	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																														
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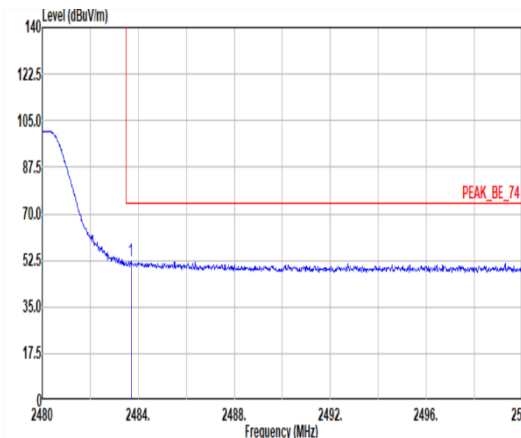
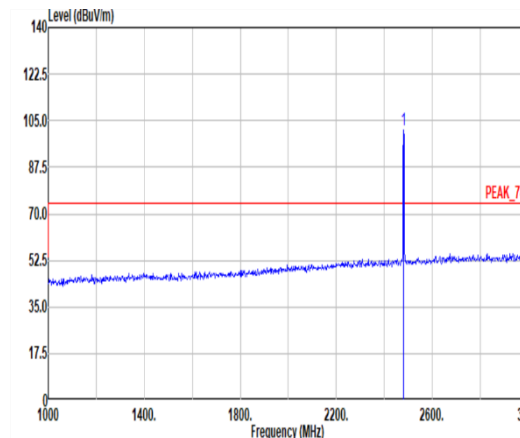
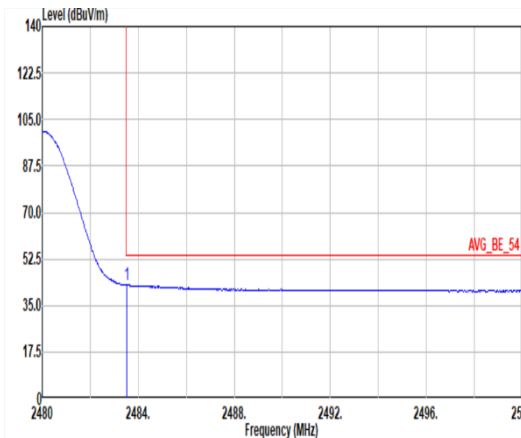
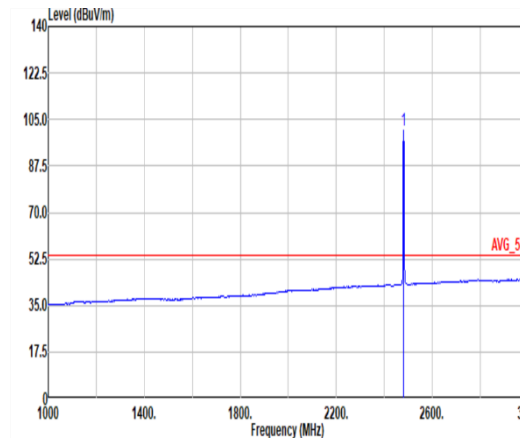


Mode	1													
	LF													
	2400-2483.5_Bluetooth-LE_GFSK_CH39_2480MHz													
	2400-2483.5_802.11ax HE40_CH06_2437MHz													
Pol.	Horizontal							Vertical						
QP/ Peak														
	Site : 03CH22-HY Condition: QP 3m Bilog_63304_231015 HORIZONTAL							Site : 03CH22-HY Condition: QP 3m Bilog_63304_231015 VERTICAL						
	Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV	dB/m	dB	dB	dB	cm	deg		
1	31.94	21.78	40.00	-18.22	29.37	24.14	0.90	32.66	0.03	--	--	--	Peak	
2	109.54	21.09	43.50	-21.61	35.09	16.82	1.83	32.70	0.05	--	--	--	Peak	
3	267.65	20.25	46.00	-25.75	30.59	19.39	2.85	32.62	0.04	--	--	--	Peak	
4	500.45	35.38	46.00	-10.62	40.10	23.98	3.88	32.80	0.22	--	--	--	Peak	
5	750.71	34.71	46.00	-11.29	34.20	28.23	4.77	32.62	0.13	--	--	--	Peak	
6	955.38	33.12	46.00	-12.88	27.00	31.04	5.36	31.29	0.21	--	--	--	Peak	
	Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	
	MHz	dBuV/m	dBuV/m	dB	dB	dBuV	dB/m	dB	dB	dB	cm	deg		
1	73.65	26.90	40.00	-13.10	45.11	12.98	1.48	32.70	0.03	--	--	--	Peak	
2	111.48	25.93	43.50	-17.57	39.77	16.95	1.84	32.69	0.06	--	--	--	Peak	
3	262.00	20.69	46.00	-25.31	30.30	20.14	2.83	32.62	0.04	--	--	--	Peak	
4	500.45	33.31	46.00	-12.69	38.03	23.98	3.88	32.80	0.22	--	--	--	Peak	
5	742.95	35.58	46.00	-10.42	35.17	28.18	4.75	32.65	0.13	--	--	--	Peak	
6	955.38	34.77	46.00	-11.23	29.45	31.04	5.36	31.29	0.21	--	--	--	Peak	

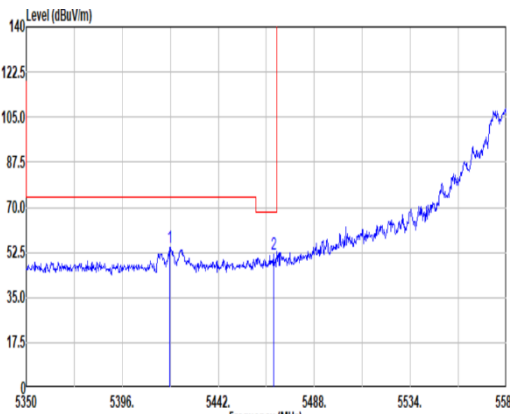
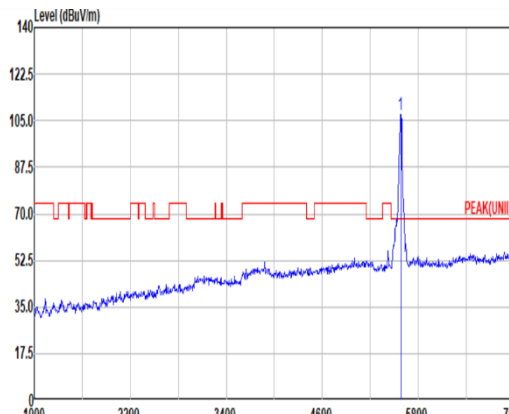
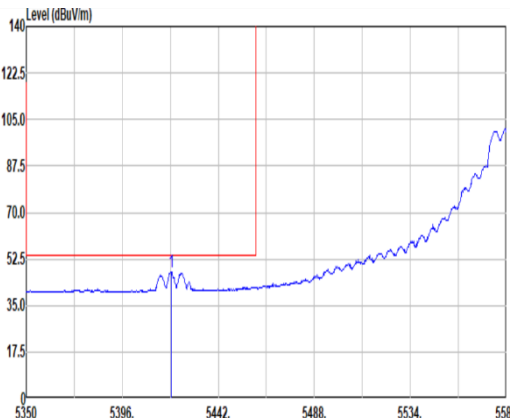
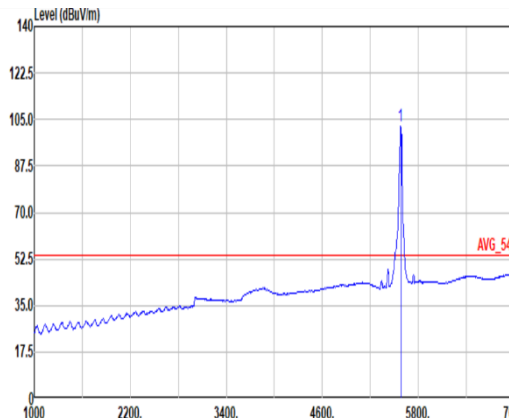


Mode	2																																																																	
	Band Edge																																																																	
	2400-2483.5_Bluetooth-LE_GFSK_CH39_2480MHz																																																																	
ANT	SISO																																																																	
Pol.	Horizontal	Fundamental																																																																
Peak	Site : 03CH22-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C04A18EN_240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th></tr><tr><th>Freq Level Line Margin Level Factor Loss Factor Factor</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr><tr><th>MHz dBuV/m dB dB dB dB dB dB cm deg</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr><tr><td>1 2483.56 51.92 74.00 -22.08 38.91 26.70 8.69 32.41 10.03 388 347 PEAK</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Freq Level Line Margin Level Factor Loss Factor Factor								MHz dBuV/m dB dB dB dB dB dB cm deg								1 2483.56 51.92 74.00 -22.08 38.91 26.70 8.69 32.41 10.03 388 347 PEAK								Site : 03CH22-HY Condition: PEAK_74 3m DRH18-E_LE2C04A18EN_240711 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th></tr><tr><th>Freq Level Line Margin Level Factor Loss Factor Factor</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr><tr><th>MHz dBuV/m dB dB dB dB dB dB cm deg</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr><tr><td>1 2480.00 99.82 ----- 86.82 26.70 8.68 32.41 10.03 388 347 PEAK</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Freq Level Line Margin Level Factor Loss Factor Factor								MHz dBuV/m dB dB dB dB dB dB cm deg								1 2480.00 99.82 ----- 86.82 26.70 8.68 32.41 10.03 388 347 PEAK							
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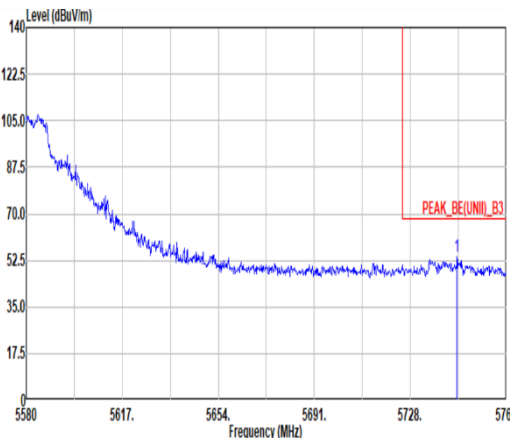


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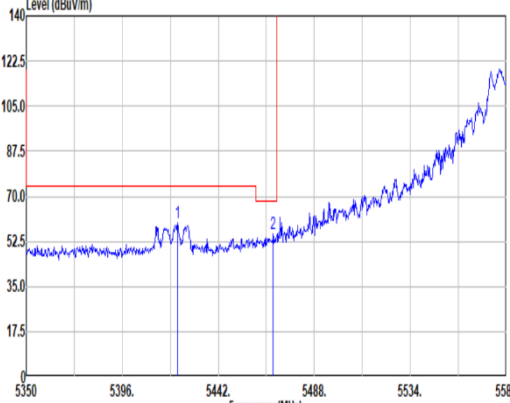
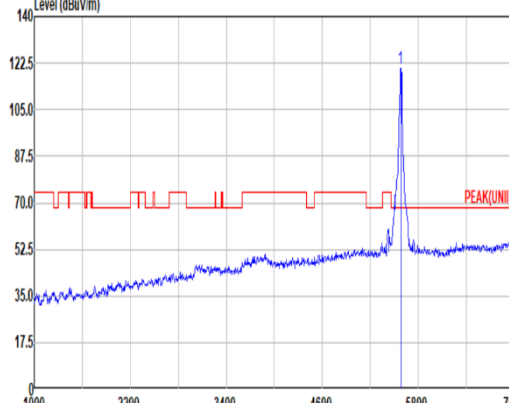
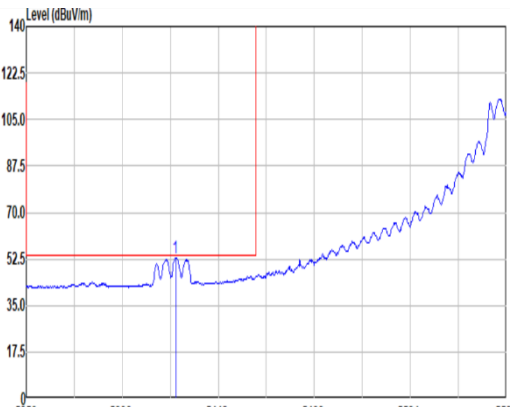
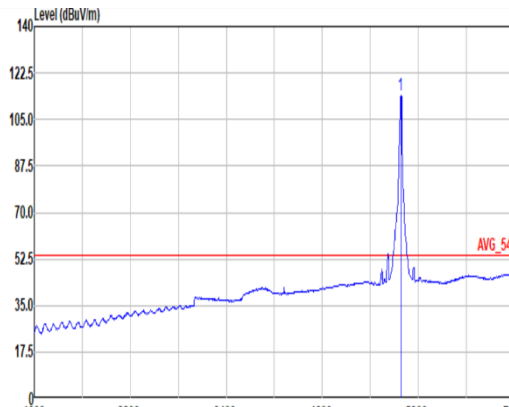


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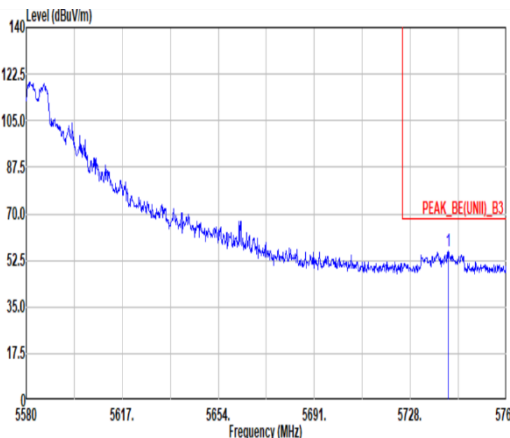


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1	5745.95	53.92	68.20	-14.28	40.42	33.70	13.59	34.43	0.64	200	86	PEAK																																											
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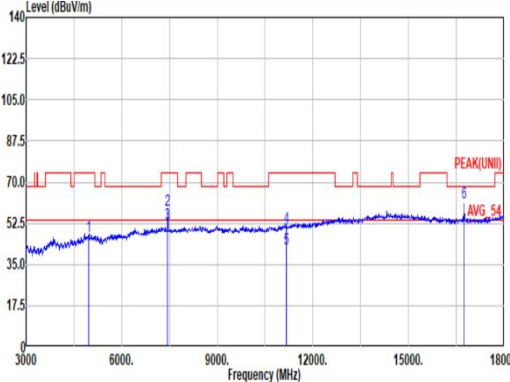
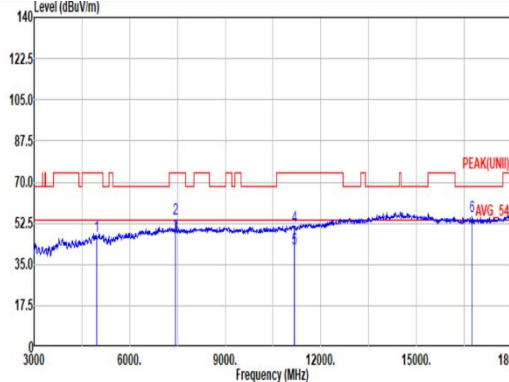


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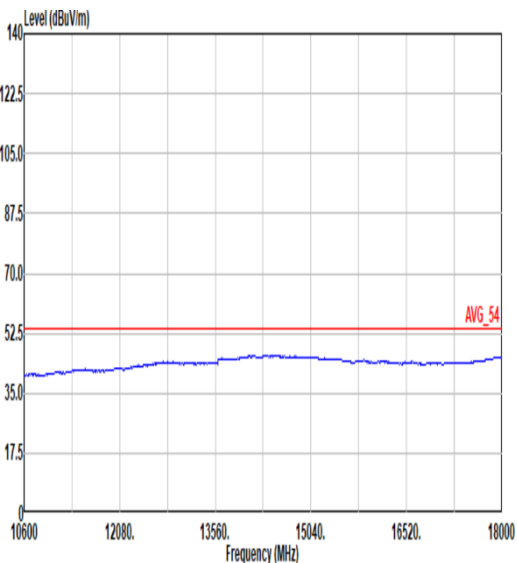
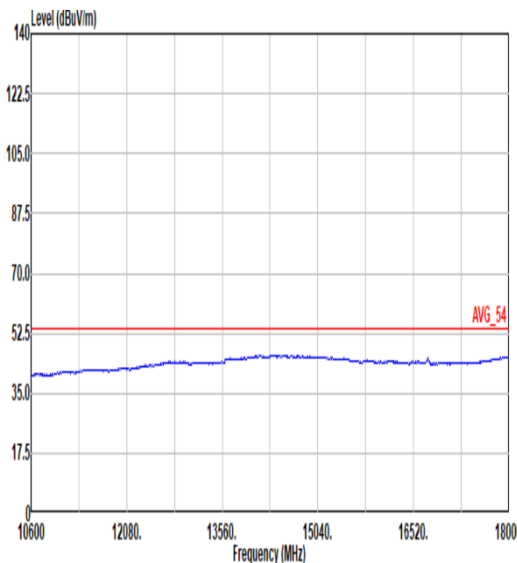


Mode	2																																												
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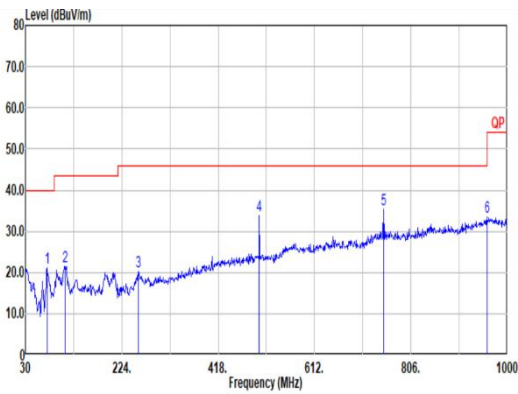
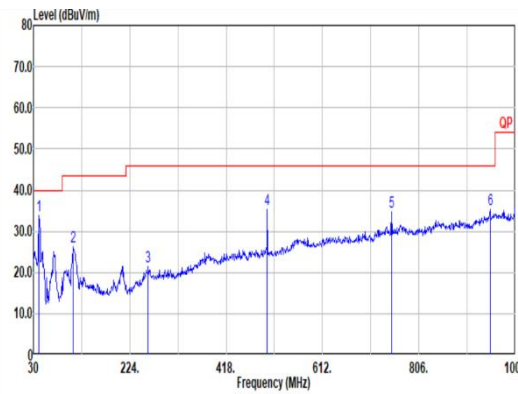


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	5.47-5.725_802.11a Ch116_5580MHz	
Pol.	Horizontal	Vertical
10.6G ~18G Avg	 Site : 03CH22-HY Condition: AVG_54 3m DRH18-E_LE2C04A18EN_240711 HORIZONTAL	 Site : 03CH22-HY Condition: AVG_54 3m DRH18-E_LE2C04A18EN_240711 VERTICAL



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Peak	Site : 03CH22-HY Condition: PEAK(UNII) 1m SHF_1224_240624 HORIZONTAL <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>25432.08</td><td>39.62</td><td>68.20</td><td>-28.58</td><td>40.27</td><td>39.40</td><td>29.59</td><td>60.10</td><td>-9.54</td><td>--</td><td>PEAK</td></tr><tr><td>2</td><td>39501.93</td><td>49.71</td><td>74.00</td><td>-24.29</td><td>40.03</td><td>45.76</td><td>37.36</td><td>63.90</td><td>-9.54</td><td>--</td><td>PEAK</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	25432.08	39.62	68.20	-28.58	40.27	39.40	29.59	60.10	-9.54	--	PEAK	2	39501.93	49.71	74.00	-24.29	40.03	45.76	37.36	63.90	-9.54	--	PEAK	Site : 03CH22-HY Condition: PEAK(UNII) 1m SHF_1224_240624 VERTICAL <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>25749.37</td><td>40.29</td><td>68.20</td><td>-27.91</td><td>40.94</td><td>39.30</td><td>29.79</td><td>60.20</td><td>-9.54</td><td>--</td><td>PEAK</td></tr><tr><td>2</td><td>39518.83</td><td>48.18</td><td>74.00</td><td>-25.82</td><td>38.68</td><td>45.58</td><td>37.36</td><td>63.90</td><td>-9.54</td><td>--</td><td>PEAK</td></tr></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	25749.37	40.29	68.20	-27.91	40.94	39.30	29.79	60.20	-9.54	--	PEAK	2	39518.83	48.18	74.00	-25.82	38.68	45.58	37.36	63.90	-9.54	--	PEAK
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Appendix B. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1	Bluetooth-LE GFSK	100.00	-	-	10Hz
1+2	2.4GHz 802.11ax HE40 Full RU	90.07	508	1.97	2KHz
1+2	5GHz 802.11a	94.88	1056	0.95	1kHz



MIMO <Ant. 1+2>

