



FCC - TEST REPORT

Report Number : **709502606891-00B** Date of Issue: October 16, 2026

Model : T7-M

Product Type : Wi-Fi and Bluetooth Module

Applicant : Hangzhou Tuya Information Technology Co.,Ltd

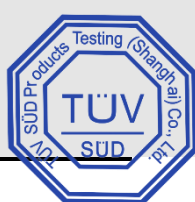
Address : Room 301,Building 1,Huace Center,Xihu District,
Hangzhou,Zhejiang, China

Manufacturer : Hangzhou Tuya Information Technology Co.,Ltd

Address : Room 301,Building 1,Huace Center,Xihu District,
Hangzhou,Zhejiang, China

Test Result : ☒ **Positive** ☐ **Negative**

Total pages including
Appendices : 67



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2 Report Version

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

Report No.	Description of Change	Date of Issue
709502606891-00B	First Issue	Oct.16, 2026



3 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

Company name: TÜV SÜD Products Testing (Shanghai) Co., Ltd.
1F, No.16, Lane 1951 Duhui Road, Shanghai, 201108, People's
Republic of China

Telephone: +86 21 6037 6300

FCC Registration No.: 820234

FCC Designation Number: CN1183

ISED CAB identifier CN0101

IC Registration No.: 31668

4 Description of the Equipment under Test

Product: Wi-Fi and Bluetooth Module

Model no.: T7-M

FCC ID: 2ANDL-T7M

Options and accessories: N/A

Rating: DC 2.2~3.6V, Normal: DC 3.3V

RF Transmission Frequency: For Bluetooth: 2402~2480MHz
 For 2.4G Wi-Fi: 802.11b/g/n-HT20/ax(HE20): 2412~2462 MHz
 802.11n-HT40: 2422~2452 MHz
 For 5G Wi-Fi: 5180~5240 MHz (U-NII-1)
 5260~5320 MHz (U-NII-2A)
 5500~5720 MHz (U-NII-2C)
 5745~5825 MHz (U-NII-3)

No. of Operated Channel: 40 channels for Bluetooth 5.0 BLE

Bluetooth Low Energy							
Ch	Fre(MHz)	Ch	Fre(MHz)	Ch	Fre(MHz)	Ch	Fre(MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

2.4GHz WIFI: 11 for 802.11b/802.11g/802.11(H20);
 7 for 802.11n(HT40)

802.11b/g/n(HT20)				802.11n(HT40)			
Ch	Fre(MHz)	Ch	Fre(MHz)	Ch	Fre(MHz)	Ch	Fre(MHz)
1	2412	7	2442	3	2422	8	2447MHz
2	2417	8	2447	4	2427	9	2452MHz
3	2422	9	2452	5	2432		
4	2427	10	2457	6	2437		
5	2432	11	2462	7	2442		
6	2437						

5180~5240 MHz (U-NII-1):

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac VHT20, 802.11ax HE20:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220
40	5200	48	5240

2 channels are provided for 802.11n (HT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	46	5230

5260~5320 MHz (U-NII-2A)

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac VHT20, 802.11ax HE20:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	60	5300
56	5280	64	5320

2 channels are provided for 802.11n (HT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
54	5270	62	5310

5500~5720 MHz (U-NII-2C)

12 channels are provided for 802.11a, 802.11n (HT20), 802.11ac VHT20, 802.11ax HE20:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	124	5620
104	5520	128	5640
108	5540	132	5660
112	5560	136	5680
116	5580	140	5700
120	5600	144	5720

6 channels are provided for 802.11n (HT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
102	5510	126	5630
110	5550	134	5670
118	5590	142	5710

5745~5825 MHz (U-NII-3): Channel 149 – 165

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac VHT20, 802.11ax HE20:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	161	5805
153	5765	165	5825
157	5785		

2 channels are provided for 802.11n (HT40)

Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	159	5795



Modulation:	Bluetooth 6.0: GFSK For Wi-Fi: Direct Sequence Spread Spectrum (DSSS) for 802.11b; Orthogonal Frequency Division Multiplexing (OFDM) for 802.11a/g/n/ac; Orthogonal Frequency Division Multiple Access (OFDMA) for 802.11ax
Data speed:	1. Bluetooth: 1Mbps, 2Mbps, 125Kbps, 500Kbps 2. Wi-Fi: 11b 1 ~ 11Mbps, 11a/g 6 ~ 54Mbps, 11n HT 20 6.5 ~ 65Mbps, 11n HT 40 13.5 ~ 135Mbps 11ac (VHT20) 6.5 ~ 86.7Mbps 11 ax (HE20) 8.6 ~ 143.4Mbps
Hardware Version:	V102
Software Version:	V3.5.0
Antenna Type:	Ceramic Antenna
Antenna Gain:	0.98dBi for 2.4GHz 0.92dBi for 5.0GHz
Description of the EUT:	The Equipment Under Test (EUT) is a Wi-Fi and Bluetooth Module which supports 2.4GHz & 5GHz Wi-Fi and Low Energy Bluetooth. This report is only for 2.4GHz Wi-Fi.
Test sample no.:	SHA-1064638-1 (Radiated sample) SHA-1064638-2 (Conducted sample)

The sample's mentioned in this report is/are submitted/ supplied/ manufactured by client. The laboratory therefore assumes no responsibility for accuracy of information on the brand name, model number, origin of manufacture, consignment, antenna gain or any information supplied.



5 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart C 10-1-2024 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators

All the test methods were according to KDB 558074 D01 15.247 Meas Guidance v05r02 Measurement Guidance and ANSI C63.10-2020.

6 Summary of Test Results

Technical Requirements					
FCC Part 15 Subpart C					
Test Condition		Test Site	Test Result		
			Pass	Fail	N/A
§15.207	Conducted emission AC power port	Site 1	☒	☐	☐
§15.247 (b) (3)	Conducted peak output power	Site 1	☒	☐	☐
§15.247(a)(1)	20dB bandwidth and 99% Occupied Bandwidth	---	☐	☐	☒
§15.247(a)(1)	Carrier frequency separation	---	☐	☐	☒
§15.247(a)(1)(iii)	Number of hopping frequencies	---	☐	☐	☒
§15.247(a)(1)(iii)	Dwell Time - Average Time of Occupancy	---	☐	☐	☒
§15.247(a)(2)	6dB bandwidth and 99% Occupied Bandwidth	Site 1	☒	☐	☐
§15.247(e)	Power spectral density	Site 1	☒	☐	☐
§15.247(d)	Spurious RF conducted emissions	Site 1	☒	☐	☐
§15.247(d)	Band edge	Site 1	☒	☐	☐
§15.247(d) & §15.209 & §15.205	Spurious radiated emissions for transmitter	Site 1	☒	☐	☐
§15.203	Antenna requirement	See note 1	☒	☐	☐
--	Duty Cycle	Site 1	☒	☐	☐

Remark 1: N/A – Not Applicable.

Note 1: The EUT uses a Ceramic Antenna, which gain is 0.98dBi for 2.4GHz and 0.92dBi for 5.0GHz. In accordance to §15.203, it is considered sufficiently to comply with the provisions of this section.

7 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID:2ANDL-T7M, complies with Section 15.207, 15.205, 15.209, 15.247 of the FCC Part 15, Subpart C Rules.

This report is only for 2.4GHz Wi-Fi.

For 2.4GHz BLE report, refer to report No. 709502606891-00A.

For 5.0GHz Wi-Fi report, refer to report No. 709502606891-00C.

SUMMARY:

All tests according to the regulations cited on page 5 were

■ - Performed

□ - **Not** Performed

The Equipment under Test

■ - **Fulfills** the general approval requirements.

□ - **Does not** fulfill the general approval requirements.

Sample Received Date: August 18, 2026

Testing Start Date: August 20, 2026

Testing End Date: August 31, 2026

TÜV SÜD Products Testing (Shanghai) Co., Ltd.

Reviewed by:



Hui TONG
Review Engineer

Prepared by:



Jiayi XU
Project Engineer

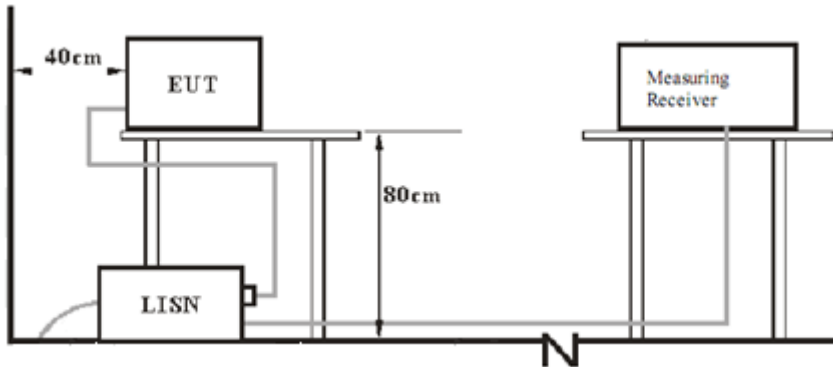
Tested by:



Chengjie GUO
Test Engineer

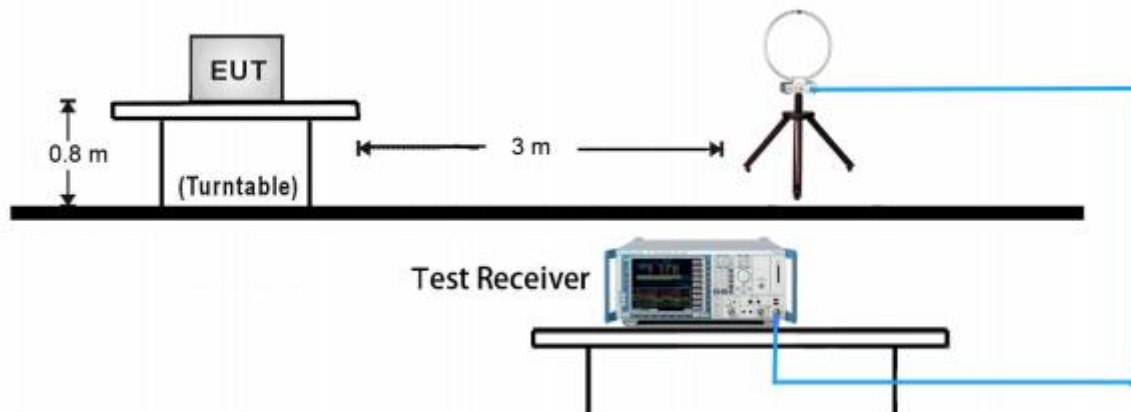
8 Test Setups

8.1 AC Power Line Conducted Emission test setups

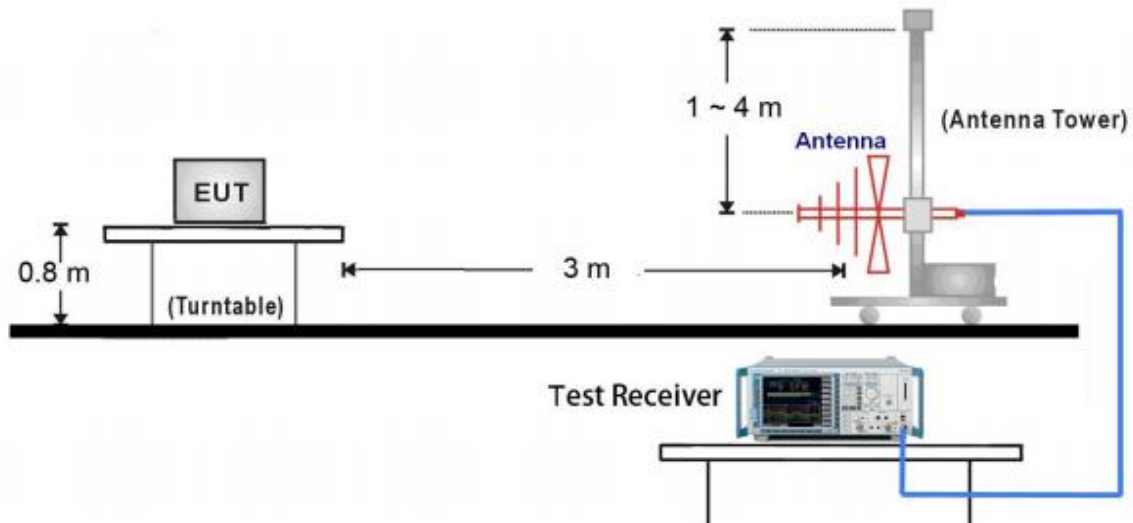


8.2 Radiated test setups

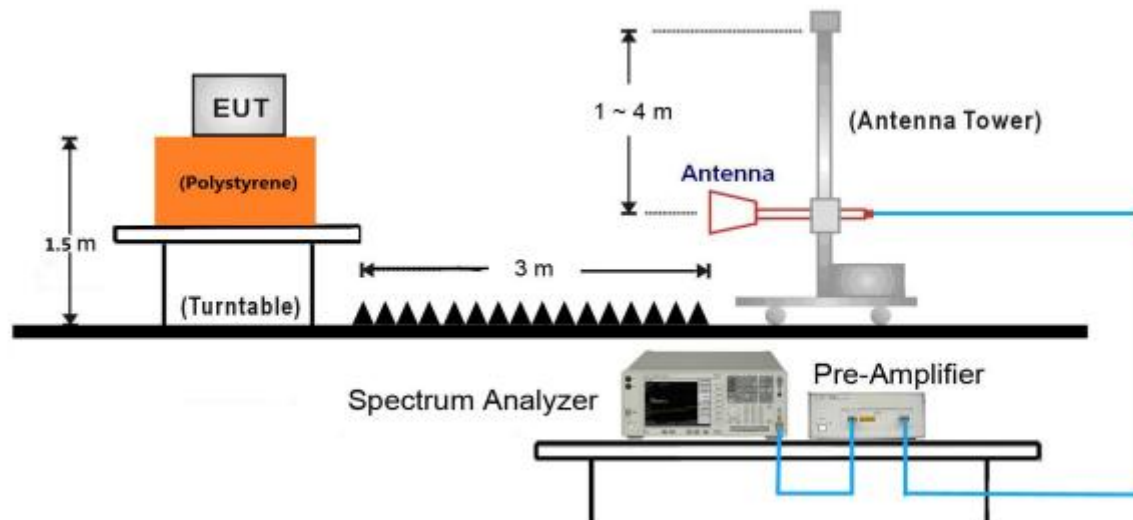
9kHz ~ 30MHz Test Setup:



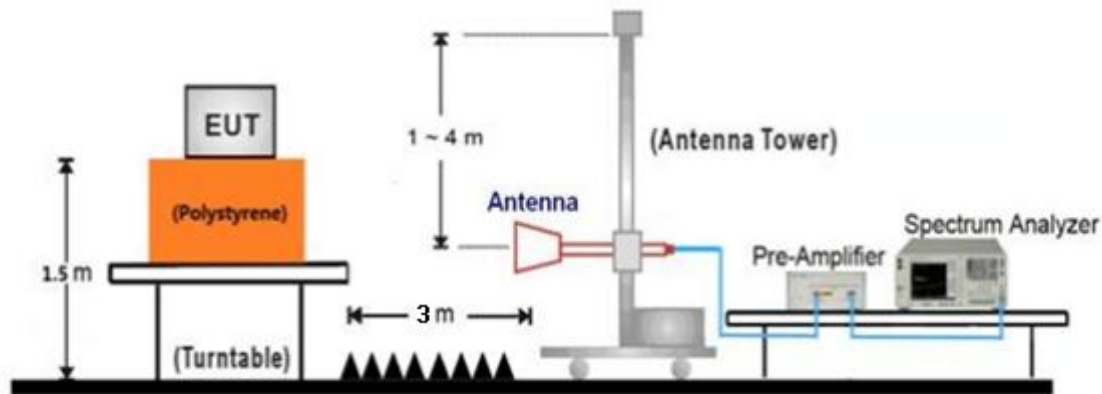
30MHz ~ 1GHz Test Setup:



1GHz ~ 18GHz Test Setup:

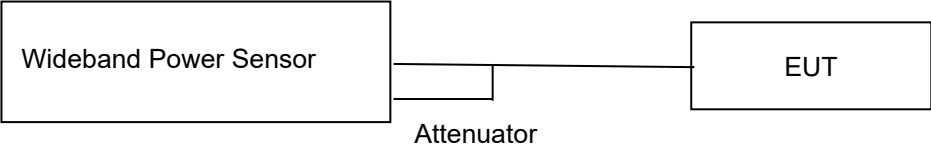


18GHz ~ 25GHz Test Setup:

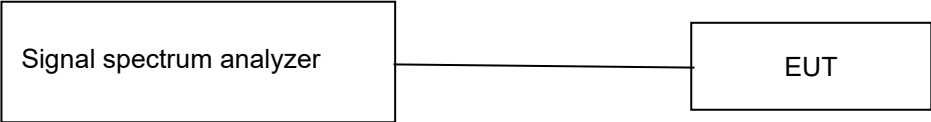


8.3 Conducted RF test setups

For Conducted peak output power



For other test items



9 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)
Notebook	Lenovo	E470	PF-OU5TS7 17/09

Test software: Wifi_Test_Tool_V1.9.2

Test Mode Applicability and Tested Channel Detail:

Mode	Tested Channel	Data Rate (Mbps)	Modulation	Index Value (Power level setting)
802.11b	1	1	DSSS	71
	6	1	DSSS	73
	11	1	DSSS	76
802.11g	1	6	OFDM	95
	6	6	OFDM	97
	11	6	OFDM	100
802.11n HT20	1	MCS0	OFDM	87
	6	MCS0	OFDM	98
	11	MCS0	OFDM	92
802.11n HT40	1	MCS0	OFDM	82
	6	MCS0	OFDM	83
	11	MCS0	OFDM	85
802.11ax HE20	1	MCS0	OFDMA	80
	6	MCS0	OFDMA	82
	11	MCS0	OFDMA	85

Test Mode Applicability and Tested Channel Detail for Partial RU

Test Software Version		Beken Wi-Fi test tool V1.7.8.1		
Mode	RU Tone	RU allocation	Index Value	Data Rate
		and test channel	(Power level setting)	
11ax HE20	26 Tone	RU 0, Channel 1	46	MCS0
		RU 4, Channel 6		
		RU 8, Channel 11		
	52 Tone	RU 37, Channel 1	46	
		RU 38, Channel 6		
		RU 40, Channel 11		
	106 Tone	RU 53, Channel 1	46	
		RU 53, Channel 6		
		RU 54, Channel 11		
	242 Tone	RU 61, Channel 1	46	
		RU 61, Channel 6		
		RU 61, Channel 11		

Note: The Power spectral density of all RU Tone with all RU allocation are investigated and the above table test condition is the worst case.

As Partial RU PSD < Full RU PSD, so only band edge and spurious emissions were recorded in this report.

Non-hopping mode: The system was configured to operate at a signal channel transmitting.

The test software allows the configuration and operation at the worst-case duty and the highest transmit power.

10 Technical Requirement

10.1 Conducted Emission

Test Method

1. The EUT was placed on a table, which is 0.8m above ground plane
2. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.).
3. Maximum procedure was performed to ensure EUT compliance
4. A EMI test receiver is used to test the emissions from both sides of AC line

Limit

According to §15.207, conducted emissions limit as below:

Frequency MHz	QP Limit dB μ V	AV Limit dB μ V
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

Decreasing linearly with logarithm of the frequency

Worst case Conducted Emission 150KHz-30MHz

150k-30MHz Conducted Emission Test

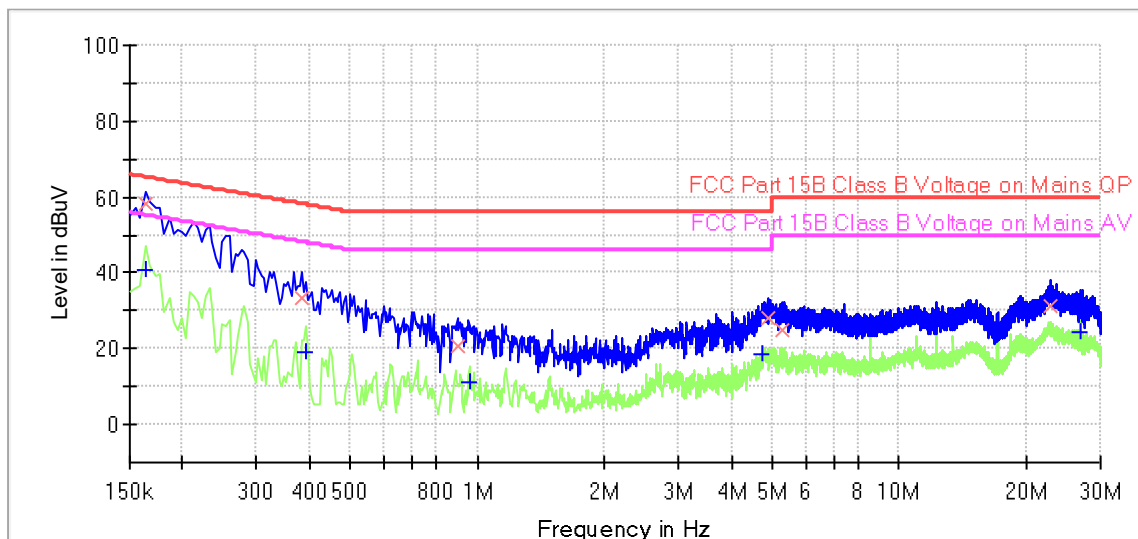
EUT Information

EUT Name:	Wi-Fi and Bluetooth Module
Model	T7-M
Client:	Hangzhou Tuya Information Technology Co.,Ltd
Op Cond	TX_2412MHz at 802.11G
Operator:	Chengjie GUO
Standard	FCC Part15.207
Sample No.:	SHA-1064638-1

Scan Setup: Voltage with 2-Line-LISN pre [EMI conducted]

Hardware Setup:	Voltage with 2-Line-LISN
Receiver:	[ESR 3]
Level Unit:	dBuV

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0.02 s	0 dB
150 kHz - 30 MHz	4.5 kHz	PK+; AVG	9 kHz	0.01 s	0 dB



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.163500	---	40.65	55.28	14.63	1000.0	9.000	L1	19.5
0.163500	58.31	---	65.28	6.97	1000.0	9.000	L1	19.5
0.384000	33.18	---	58.19	25.01	1000.0	9.000	L1	19.4
0.393000	---	19.01	48.00	28.99	1000.0	9.000	L1	19.4
0.897000	20.63	---	56.00	35.37	1000.0	9.000	L1	19.4
0.960000	---	11.10	46.00	34.90	1000.0	9.000	L1	19.4
4.744500	---	18.39	46.00	27.61	1000.0	9.000	L1	19.5
4.870500	27.82	---	56.00	28.18	1000.0	9.000	L1	19.5
5.307000	25.13	---	60.00	34.87	1000.0	9.000	L1	19.5
12.210000	---	27.49	50.00	22.51	1000.0	9.000	L1	19.7
22.825500	31.04	---	60.00	28.96	1000.0	9.000	L1	20.1
26.857500	---	24.56	50.00	25.44	1000.0	9.000	L1	20.1

150k-30MHz Conducted Emission Test

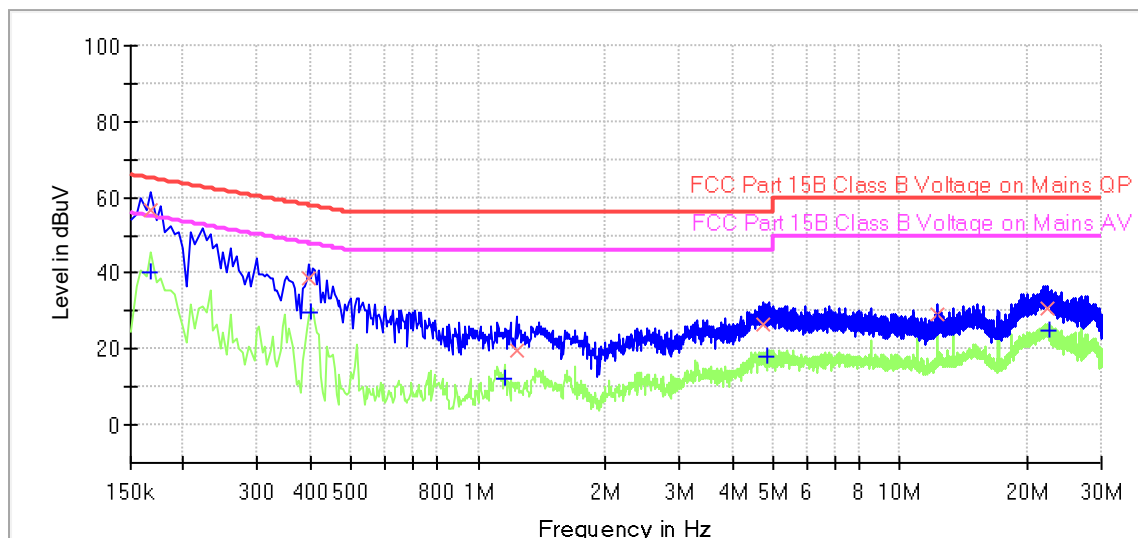
EUT Information

EUT Name: Wi-Fi and Bluetooth Module
 Model: T7-M
 Client: Hangzhou Tuya Information Technology Co.,Ltd
 Op Cond: TX_2412MHz at 802.11G
 Operator: Chengjie GUO
 Standard: FCC Part15.207
 Sample No.: SHA-1064638-1

Scan Setup: Voltage with 2-Line-LISN pre [EMI conducted]

Hardware Setup: Voltage with 2-Line-LISN
 Receiver: [ESR 3]
 Level Unit: dBuV

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0.02 s	0 dB
150 kHz - 30 MHz	4.5 kHz	PK+; AVG	9 kHz	0.01 s	0 dB



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.168000	---	40.16	55.06	14.90	1000.0	9.000	N	19.5
0.168000	56.83	---	65.06	8.23	1000.0	9.000	N	19.5
0.397500	38.70	---	57.91	19.21	1000.0	9.000	N	19.4
0.402000	---	29.59	47.81	18.22	1000.0	9.000	N	19.4
1.153500	---	12.24	46.00	33.76	1000.0	9.000	N	19.4
1.230000	19.53	---	56.00	36.47	1000.0	9.000	N	19.4
4.717500	26.45	---	56.00	29.55	1000.0	9.000	N	19.5
4.866000	---	18.17	46.00	27.83	1000.0	9.000	N	19.5
12.210000	29.33	---	60.00	30.67	1000.0	9.000	N	19.7
12.210000	---	26.98	50.00	23.02	1000.0	9.000	N	19.7
22.452000	30.56	---	60.00	29.44	1000.0	9.000	N	20.1
22.501500	---	24.81	50.00	25.19	1000.0	9.000	N	20.1

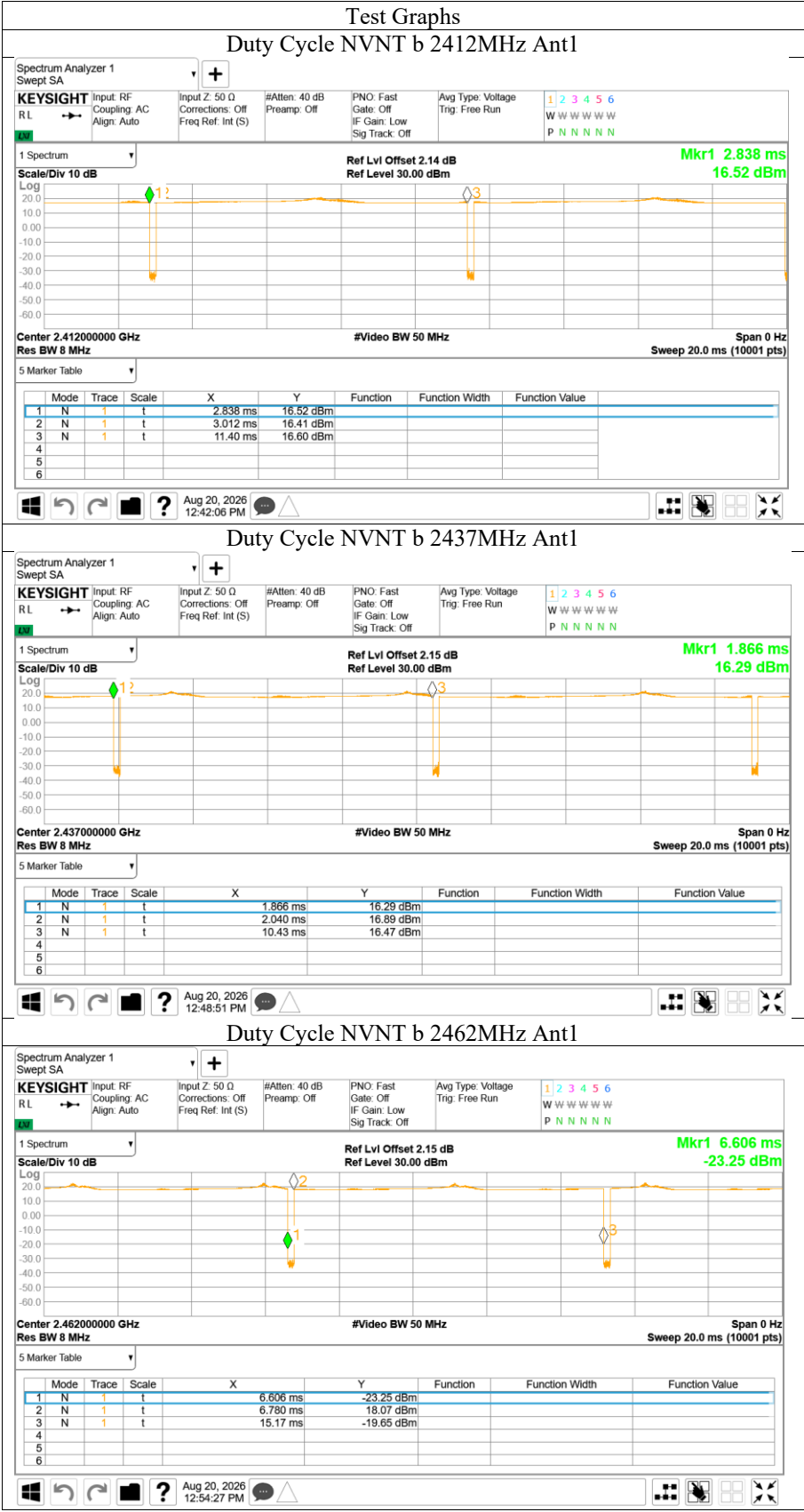
Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)
 Factor (dB) = Cable Loss (dB) + LISN Factor (dB) + 10dB Attenuator

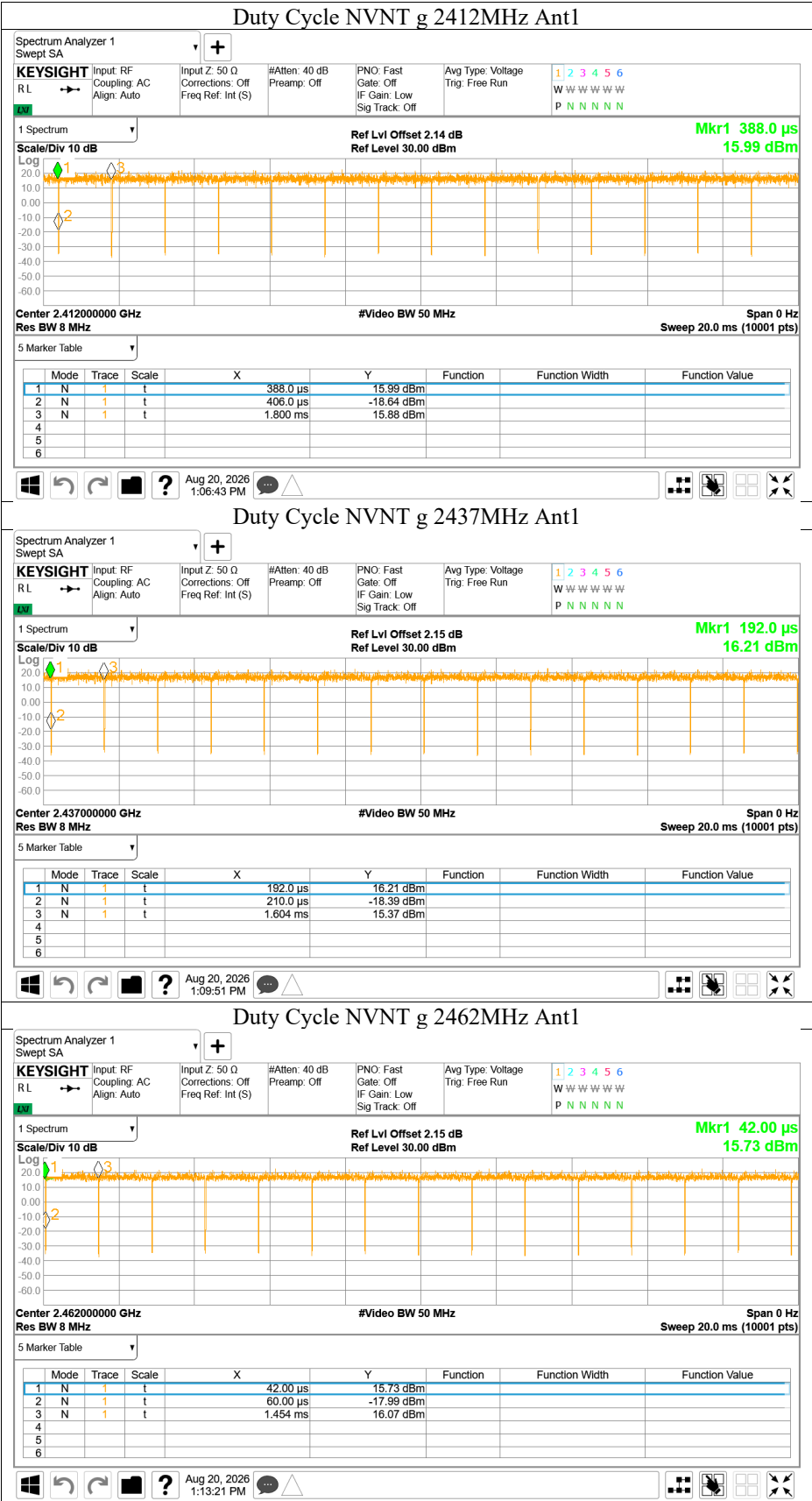
10.2 Duty Cycle

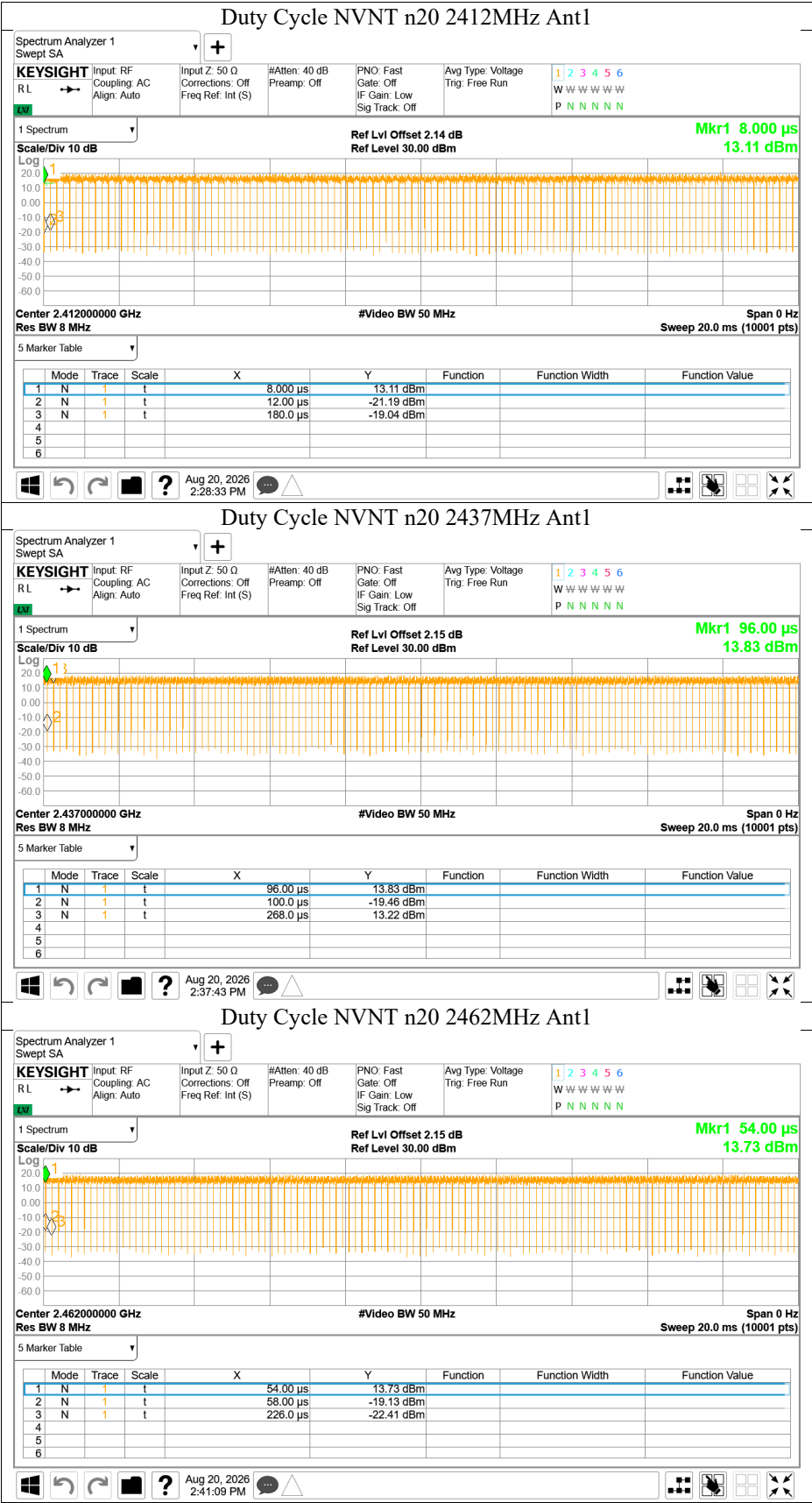
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	97.97	0.09	0.12
NVNT	b	2437	Ant1	97.97	0.09	0.12
NVNT	b	2462	Ant1	97.97	0.09	0.12
NVNT	g	2412	Ant1	98.73	0	0.72
NVNT	g	2437	Ant1	98.73	0	0.72
NVNT	g	2462	Ant1	98.73	0	0.72
NVNT	n20	2412	Ant1	97.67	0.1	5.95
NVNT	n20	2437	Ant1	97.67	0.1	5.95
NVNT	n20	2462	Ant1	97.67	0.1	5.95
NVNT	n40	2422	Ant1	96.23	0.17	9.8
NVNT	n40	2437	Ant1	96.23	0.17	9.8
NVNT	n40	2452	Ant1	96.23	0.17	9.8
NVNT	ax20	2412	Ant1	97.59	0.11	6.17
NVNT	ax20	2437	Ant1	97.59	0.11	6.17
NVNT	ax20	2462	Ant1	97.59	0.11	6.17

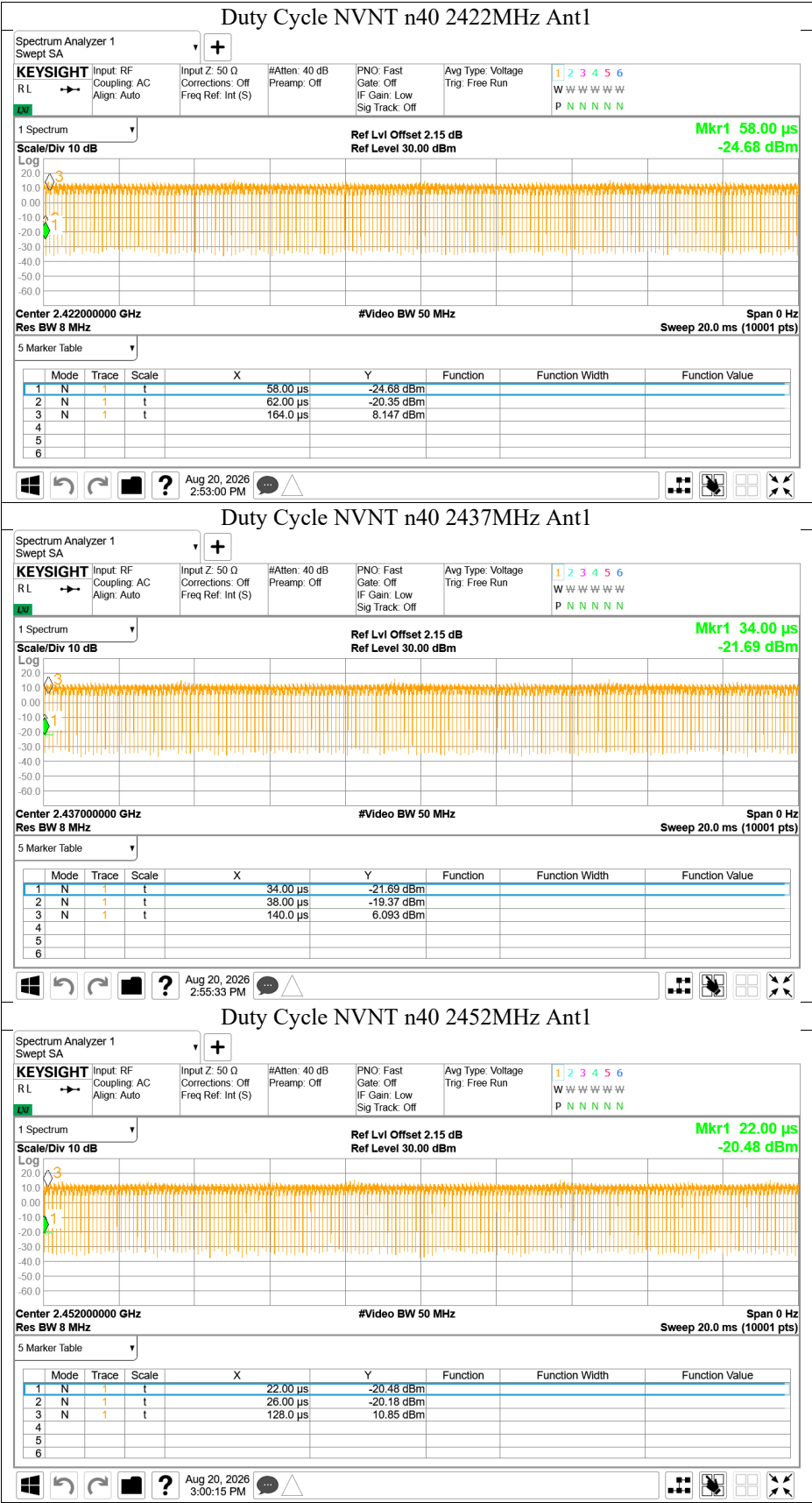


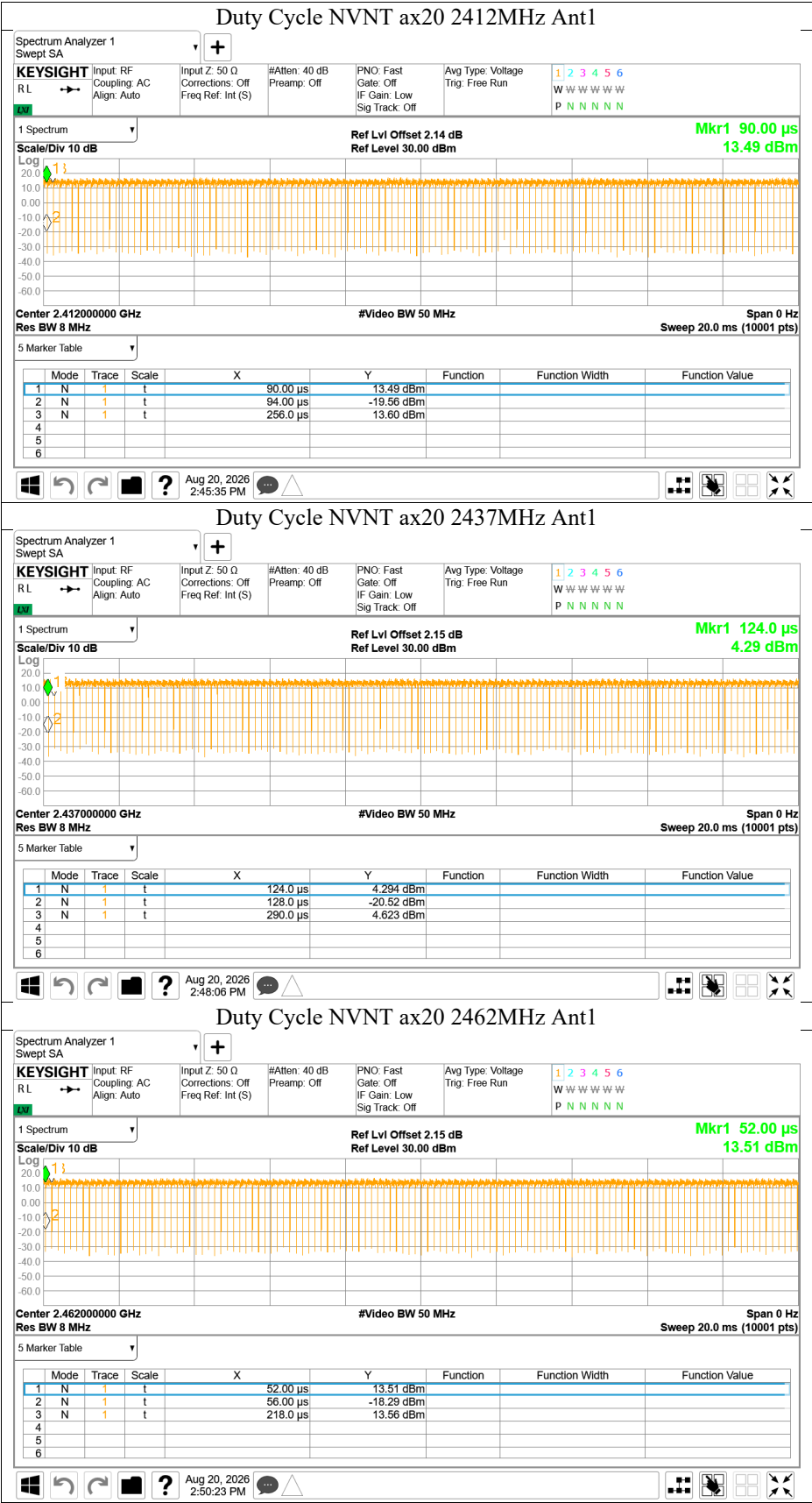
Test Graph







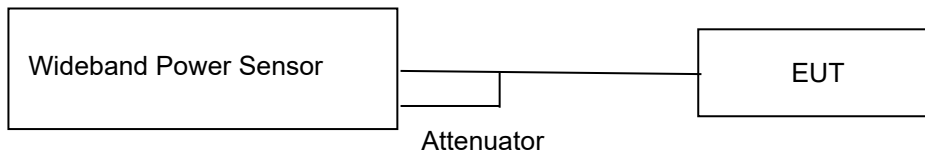




10.3 Conducted peak output power

Test Method

- 1) The EUT is configured to transmit continuously, or to transmit with a constant duty cycle.
- 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
- 3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- 4) Measure the peak power of the transmitter. This measurement is a peak over both the ON and OFF periods of the transmitter.



Wideband Power Sensor conducted test setup

Limits

According to §15.247 (b) (3), peak output power limit as below:

	Frequency Range	Limit	Limit
	MHz	W	dBm
Conducted peak output power	2400-2483.5	≤1	≤30

Test result as below table

Mode	Frequency (MHz)	Conducted Peak Output Power (dBm) §15.247 (b) (3)		
		Result	limit	Verdict
802.11B	2412MHz	16.65	≤30	Pass
	2437MHz	16.79	≤30	Pass
	2462MHz	17.01	≤30	Pass
802.11G	2412MHz	23.71	≤30	Pass
	2437MHz	23.48	≤30	Pass
	2462MHz	23.47	≤30	Pass
802.11N(HT20)	2412MHz	21.61	≤30	Pass
	2437MHz	21.56	≤30	Pass
	2462MHz	21.42	≤30	Pass
802.11N(HT40)	2422MHz	18.01	≤30	Pass
	2437MHz	17.91	≤30	Pass
	2452MHz	17.89	≤30	Pass
802.11AX(HE20)	2422MHz	17.42	≤30	Pass
	2437MHz	17.58	≤30	Pass
	2452MHz	17.66	≤30	Pass



10.4 6dB bandwidth

Test Method for 6 dB Bandwidth

- 1. The RF output of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
- 3. Use the following spectrum analyzer settings:
- 4. RBW=1% to 5% of the occupied bandwidth but not less than 100kHz, VBW≥3RBW, Sweep = auto, Detector function = peak, Trace = max hold
- 5. Use the automatic bandwidth measurement capability of an instrument, use the X dB bandwidth mode with X set to 6 dB.
- 6. Allow the trace to stabilize, record the 6 dB Bandwidth value.

Limit

6dB bandwidth Limit [kHz]		≥500
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Test result

Test Result should be referred to Appendix A

10.5 Power spectral density

Test Method

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance:

1. The RF output of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings:
4. Set analyzer center frequency to DTS channel center frequency. RBW=3kHz, VBW $\geq$ 3RBW, Span=1.5 times DTS bandwidth, Detector=Peak, Sweep=auto, Trace= max hold.
5. Allow trace to fully stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.
6. Repeat above procedures until other frequencies measured were completed.

Limit

Limit [dBm/3KHz]
 ≤ 8

Test result

Test Result should be referred to Appendix A

10.6 Spurious RF conducted emissions

Test Method

1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings:
Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.
RBW = 100 kHz, VBW $\geq$ 3RBW, Sweep = auto, Detector function = peak, Trace = max hold
4. Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded.
5. The level displayed must comply with the limit specified in this Section. Submit these plots.
6. Repeat above procedures until all frequencies measured were complete.

Limit

Frequency Range MHz	Limit (dBc)
30-25000	-20

Test result

Test Result should be referred to Appendix A

10.7 Band edge

Test Method

1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings:
Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 100 kHz, VBW $\geq$ 3RBW, Sweep = auto, Detector function = peak, Trace = max hold
4. Allow the trace to stabilize, use the peak and delta measurement to record the result.
5. The level displayed must comply with the limit specified in this Section.
6. Repeat above procedures until all frequencies measured were complete and submit all the plots.

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under § 15.247(b)(3), the attenuation required shall be 30 dB instead of 20 dB.

Frequency Range MHz	Limit (dBc)
30-25000	-20

Test result

Test Result should be referred to Appendix A

10.8 Spurious radiated emissions for transmitter

Test Method

1. The EUT was placed on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference – receiving antenna, which was mounted on the top of a variable – height antenna tower.
3. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. Use the following spectrum analyzer settings According to C63.10
 - 1) Procedure for Unwanted Emissions Measurements Below 1000 MHz
Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 100 kHz to 120kHz, VBW ≥ RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.
 - 2) For Peak unwanted emissions Above 1GHz:
Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 1MHz, VBW ≥ RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

Procedures for average unwanted emissions measurements above 1GHz

 - a) RBW = 1MHz.
 - b) VBW \ [3 × RBW].
 - c) Detector = RMS (power averaging), if [span / (# of points in sweep)] \ 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. Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.)
 - 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 linear voltage averaging mode was used in the preceding step e), then the correction factor is $[20 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.

3) 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 (AV) at frequency above 1GHz.

Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under § 15.247(b)(3) and, the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a).

Below 30MHz

§15.247(d) & §15.209 & §15.205

Frequency MHz	Field Strength uV/m	Detector	Measured Distance Meters
0.009~0.090	2400/F (kHz)	AV	300
0.090~0.110	2400/F (kHz)	QP	300
0.110~0.490	2400/F (kHz)	AV	300
0.490~1.705	24000/F (kHz)	QP	30
1.705~30	30	QP	30

Note 1: Limit 3m(dBµV/m)=Limit 300m(dBµV/m)+40Log(300m/3m) (Below 30MHz)

Note 2: Limit 3m(dBµV/m)=Limit 30m(dBµV/m)+40Log(30m/3m) (Below 30MHz)

Note 3: dBµV/m = 20log(µV/m)

Above 30MHz

§15.247(d) & §15.209 & §15.205

Frequency MHz	Field Strength uV/m	Field Strength dBµV/m	Detector	Measured Distance Meters
30-88	100	40	QP	3
88-216	150	43.5	QP	3
216-960	200	46	QP	3
960-1000	500	54	QP	3
Above 1000	500	54	AV	3
Above 1000	5000	74	PK	3

Test result

Worst case Radiated Emission 9KHz-30MHz 0.009-30MHz Radiated Emission

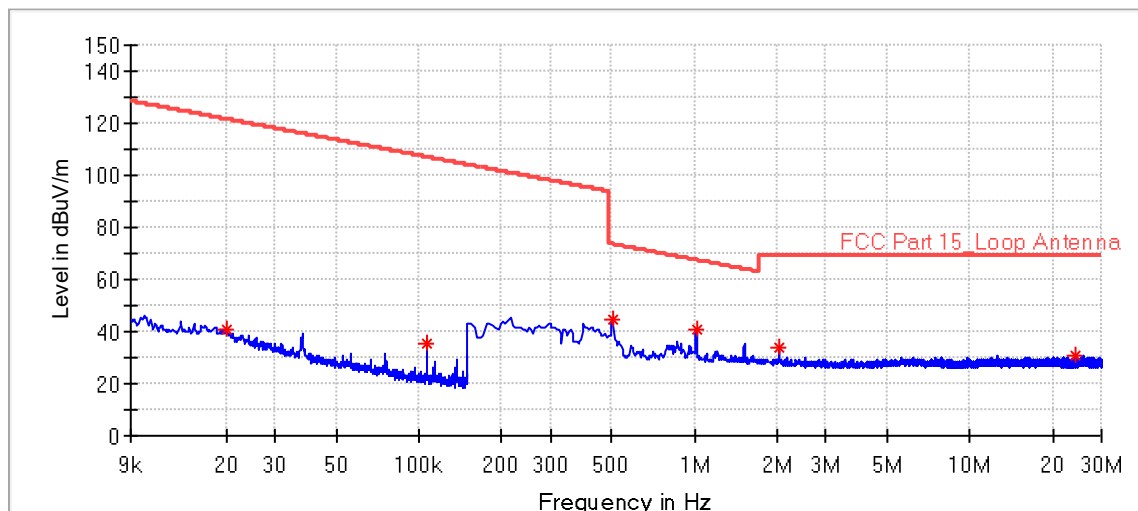
EUT Information

EUT Name:	Wi-Fi and Bluetooth Module
Model	T7-M
Client:	Hangzhou Tuya Information Technology Co.,Ltd
Op Cond	TX_2412MHz at 802.11G
Operator:	Chengjie GUO
Standard	FCC Part15.209
Sample No.:	SHA-1064638-1

Sweep Setup: RE_Loop E_pre [EMI radiated]

Hardware Setup:	RE_Loop Antenna V
Receiver:	[ESR 3]
Level Unit:	dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
9 kHz - 150 kHz	88.125 Hz	PK+	200 Hz	0.01 s	0 dB
150 kHz - 30 MHz	4.39 kHz	PK+	9 kHz	0.01 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Azimuth (deg)	Corr. (dB/m)
0.020104	40.97	121.54	80.57	X	258.0	19.0
0.107524	35.16	106.97	71.82	X	4.0	18.8
0.505566	44.26	73.53	29.27	X	301.0	18.8
1.014772	40.85	67.48	26.63	X	313.0	18.8
2.028794	33.50	69.54	36.04	X	335.0	19.0
24.306552	30.70	69.54	38.84	X	207.0	19.3

0.009-30MHz Radiated Emission

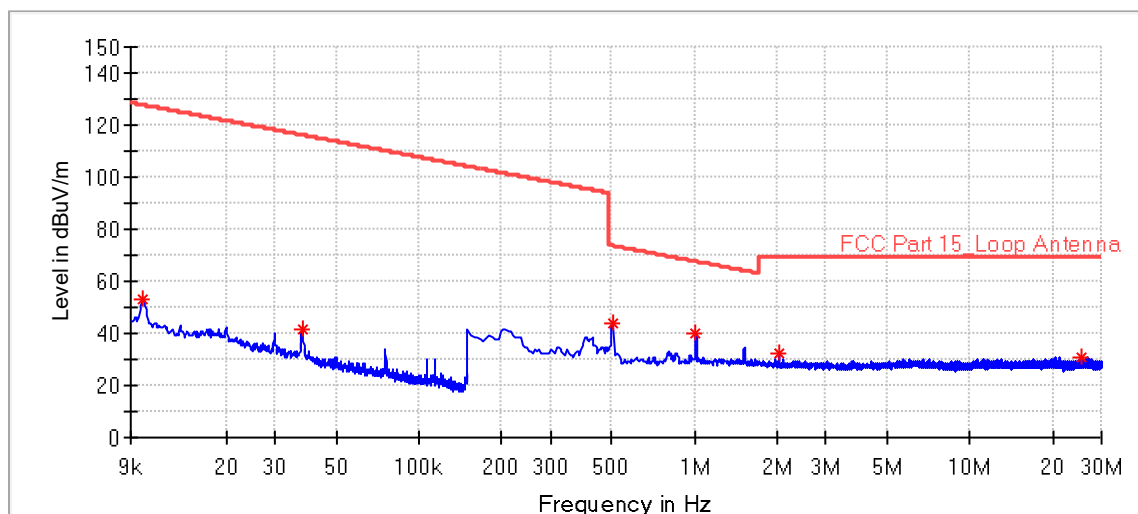
EUT Information

EUT Name: Wi-Fi and Bluetooth Module
 Model: T7-M
 Client: Hangzhou Tuya Information Technology Co.,Ltd
 Op Cond: TX_2412MHz at 802.11G
 Operator: Chengjie GUO
 Standard: FCC Part15.209
 Sample No.: SHA-1064638-1

Sweep Setup: RE_Loop E_pre [EMI radiated]

Hardware Setup: RE_Loop Antenna V
 Receiver: [ESR 3]
 Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
9 kHz - 150 kHz	88.125 Hz	PK+	200 Hz	0.01 s	0 dB
150 kHz - 30 MHz	4.39 kHz	PK+	9 kHz	0.01 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Azimuth (deg)	Corr. (dB/m)
0.009969	52.75	127.63	74.88	Y	179.0	19.6
0.037905	41.48	116.03	74.55	Y	117.0	18.9
0.505566	44.03	73.53	29.50	Y	3.0	18.8
1.010383	39.83	67.51	27.69	Y	82.0	18.8
2.028794	32.17	69.54	37.37	Y	82.0	19.0
25.219610	30.83	69.54	38.71	Y	90.0	19.3

0.009-30MHz Radiated Emission

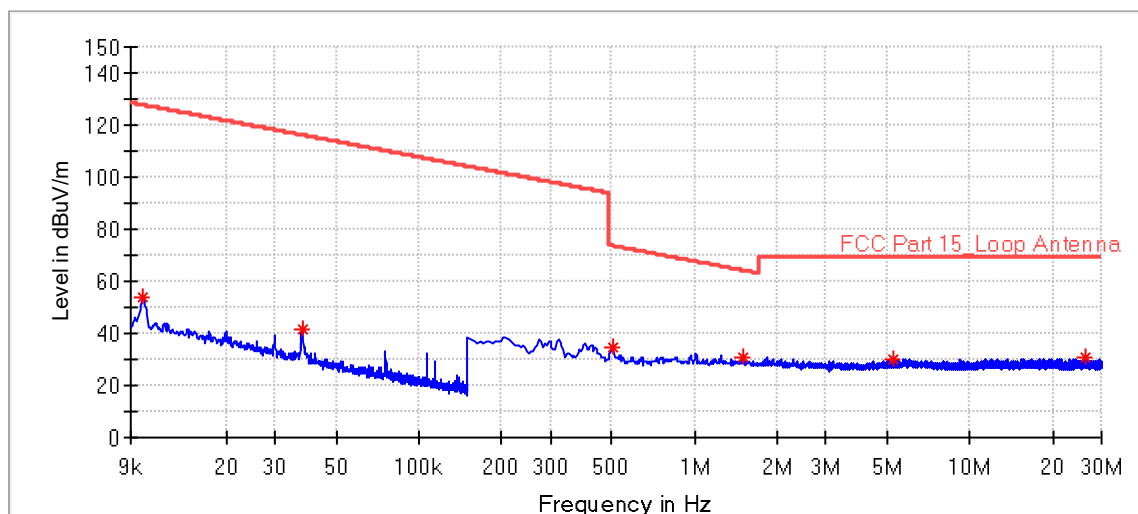
EUT Information

EUT Name: Wi-Fi and Bluetooth Module
 Model: T7-M
 Client: Hangzhou Tuya Information Technology Co.,Ltd
 Op Cond: TX_2412MHz at 802.11G
 Operator: Chengjie GUO
 Standard: FCC Part15.209
 Sample No.: SHA-1064638-1

Sweep Setup: RE_Loop E_pre [EMI radiated]

Hardware Setup: RE_Loop Antenna V
 Receiver: [ESR 3]
 Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamplifier
9 kHz - 150 kHz	88.125 Hz	PK+	200 Hz	0.01 s	0 dB
150 kHz - 30 MHz	4.39 kHz	PK+	9 kHz	0.01 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol	Azimuth (deg)	Corr. (dB/m)
0.009969	53.54	127.63	74.09	Z	213.0	19.6
0.037905	41.85	116.03	74.18	Z	102.0	18.9
0.505566	34.80	73.53	38.72	Z	263.0	18.8
1.506419	30.51	64.05	33.54	Z	214.0	18.9
5.285956	30.01	69.54	39.53	Z	80.0	18.9
26.338985	30.63	69.54	38.91	Z	267.0	19.3

Worst case Radiated Emission 30MHz-1GHz 30-1000MHz Radiated Emission Test

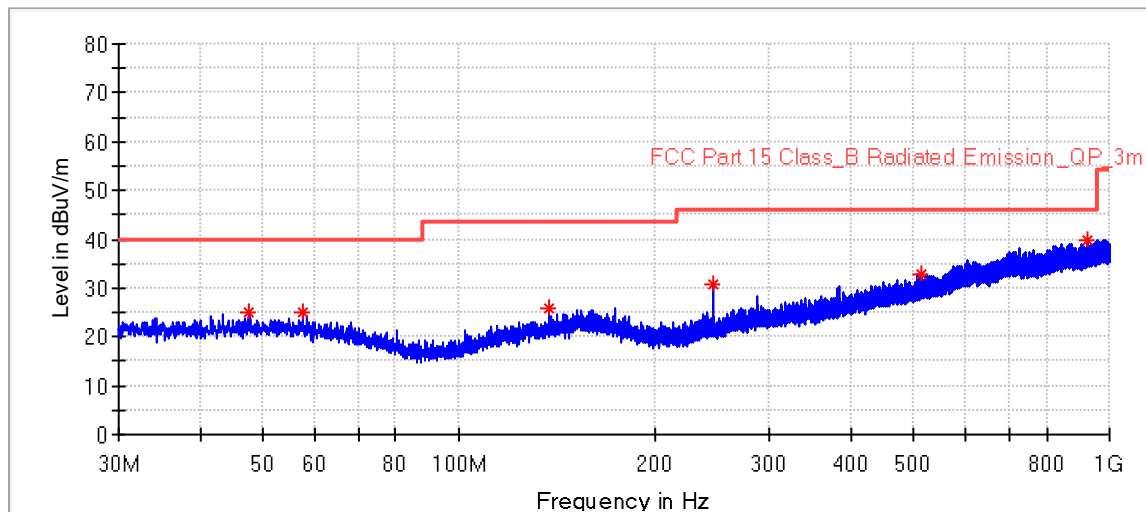
EUT Information

EUT Name:	Wi-Fi and Bluetooth Module
Model	T7-M
Client:	Hangzhou Tuya Information Technology Co.,Ltd
Op Cond	TX_2412MHz at 802.11G
Operator:	Chengjie GUO
Standard	FCC Part15.209
Sample No.:	SHA-1064638-1

Sweep Setup: RE_VULB9168_pre_Cont_30-1000 [EMI radiated]

Hardware Setup:	RE_VULB9168
Receiver:	[ESR 3]
Level Unit:	dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
30 MHz - 1 GHz	48.5 kHz	PK+	120 kHz	0.2 s	20 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
47.702500	24.93	40.00	15.07	100.0	H	327.0	20.5
57.645000	24.85	40.00	15.15	200.0	H	350.0	20.2
137.864000	25.89	43.50	17.61	100.0	H	152.0	19.9
245.922000	30.75	46.00	15.25	150.0	H	110.0	19.6
515.048500	32.96	46.00	13.04	100.0	H	194.0	27.2
928.074500	39.84	46.00	6.16	100.0	H	336.0	33.7

30-1000MHz Radiated Emission Test

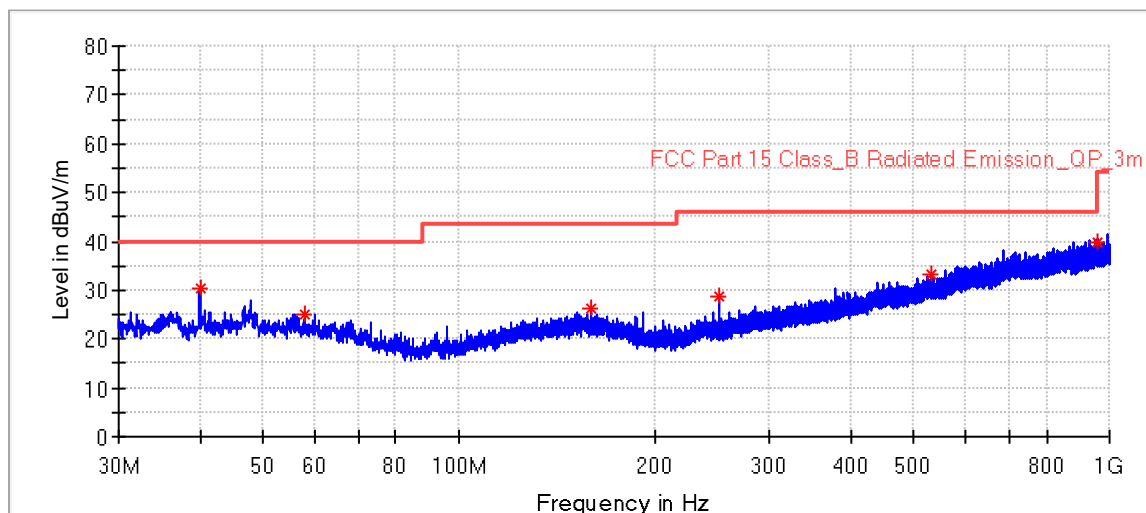
EUT Information

EUT Name: Wi-Fi and Bluetooth Module
 Model: T7-M
 Client: Hangzhou Tuya Information Technology Co.,Ltd
 Op Cond: TX_2412MHz at 802.11G
 Operator: Chengjie GUO
 Standard: FCC Part15.209
 Sample No.: SHA-1064638-1

Sweep Setup: RE_VULB9168_pre_Cont_30-1000 [EMI radiated]

Hardware Setup: RE_VULB9168
 Receiver: [ESR 3]
 Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
30 MHz - 1 GHz	48.5 kHz	PK+	120 kHz	0.2 s	20 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
39.991000	30.24	40.00	9.76	100.0	V	0.0	19.9
58.081500	25.02	40.00	14.98	150.0	V	0.0	20.1
160.028500	26.16	43.50	17.34	100.0	V	285.0	20.7
251.839000	28.58	46.00	17.42	150.0	V	149.0	19.6
531.490000	33.11	46.00	12.89	100.0	V	0.0	27.4
955.040500	39.59	46.00	6.41	100.0	V	335.0	34.3

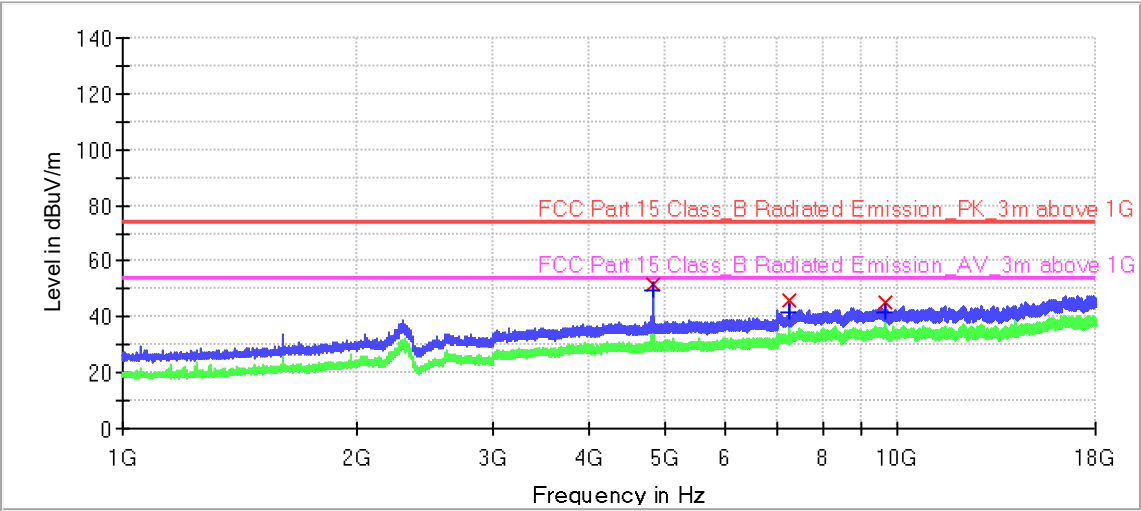
Remark:

- (1) Emission level= Original Receiver Reading + Correct Factor
- (2) Correct Factor = Antenna Factor + Cable Loss -Amplifier gain
- (3) Margin = limit – Corrected Reading



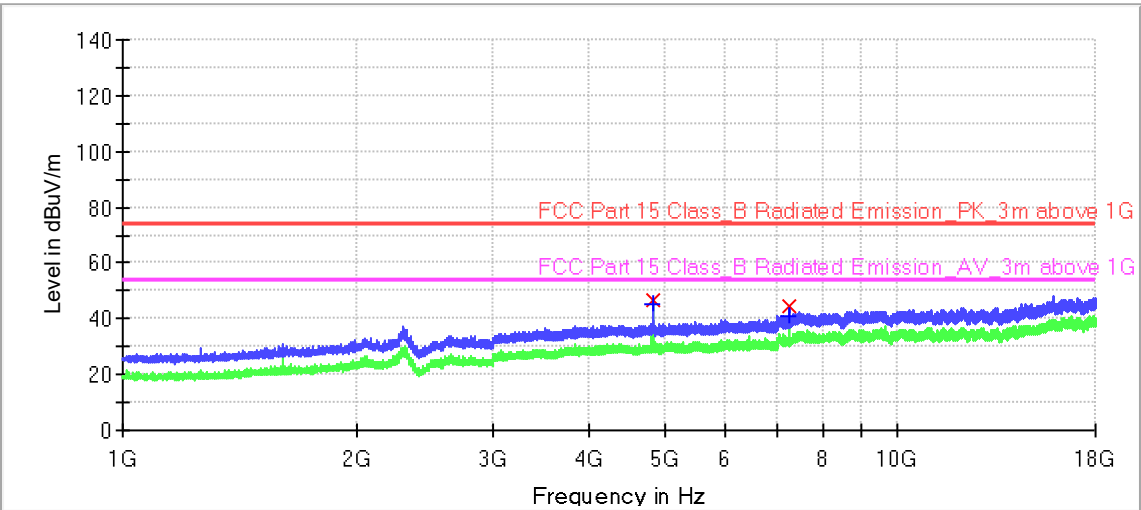
Radiated Emission 1-18 GHz at 802.11B

Frequency:2412MHz



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
4823.937500	51.6	49.3	176.0	H	13.0	-3.4	22.4	74.0	4.7	54.0
7235.281250	46.0	41.6	198.0	H	122.0	0.2	28.0	74.0	12.4	54.0
9647.687500	45.3	41.5	150.0	H	13.0	2.2	28.7	74.0	12.5	54.0

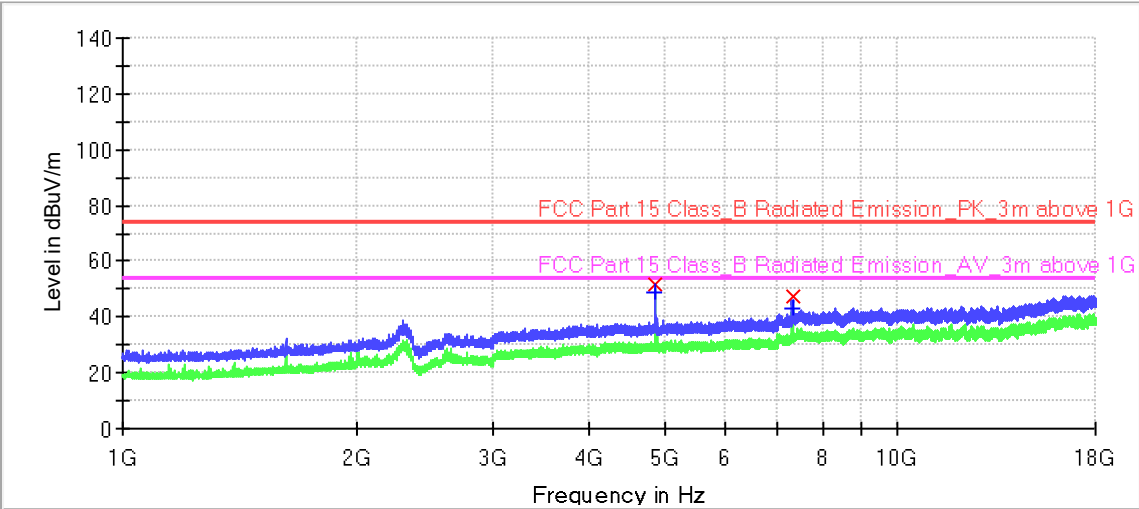


Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
4823.937500	46.9	45.3	184.0	V	436.0	-3.4	27.1	74.0	8.7	54.0
7234.750000	44.2	40.6	199.0	V	25.0	0.2	29.8	74.0	13.4	54.0

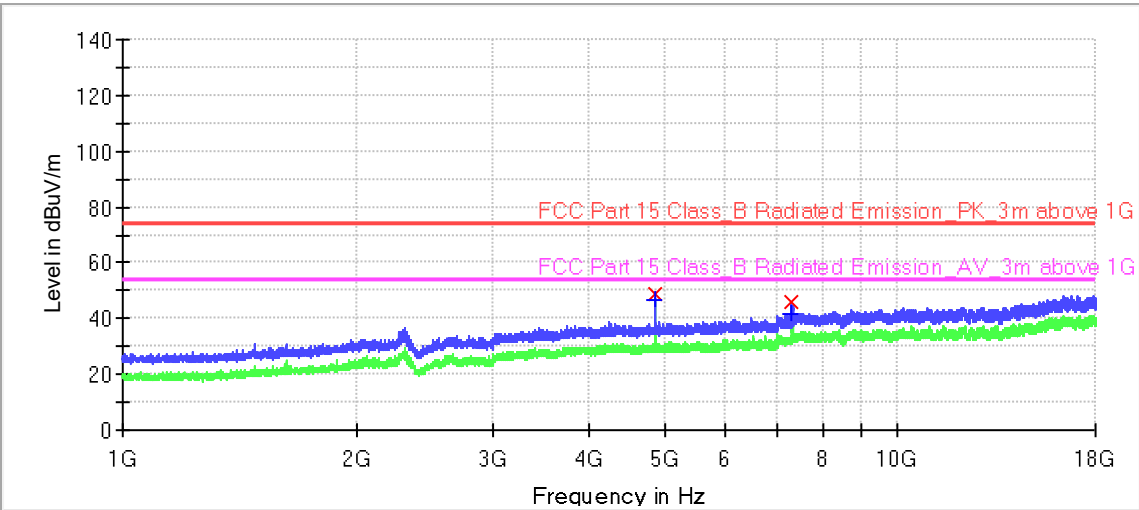


Frequency:2437MHz



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
4873.875000	51.4	49.0	198.0	H	210.0	-3.2	22.6	74.0	5.0	54.0
7312.312500	47.7	43.3	187.0	H	1.0	0.1	26.3	74.0	10.7	54.0

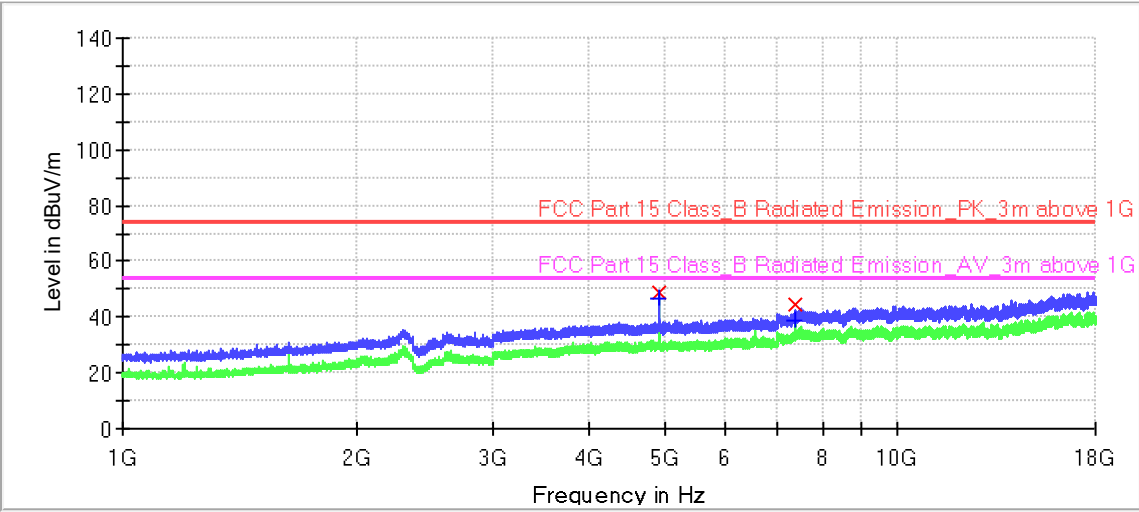


Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
4873.900000	48.5	46.6	187.0	V	37.0	-3.2	25.5	74.0	7.4	54.0
7310.187500	45.9	41.9	196.0	V	17.0	0.1	28.2	74.0	12.1	54.0

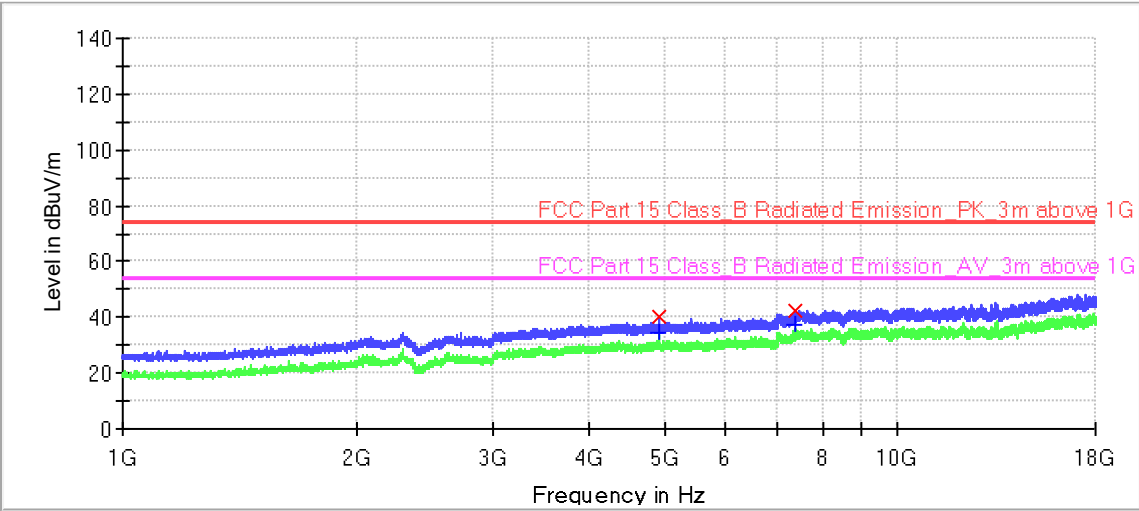


Frequency:2462MHz



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
4923.700000	48.9	46.8	178.0	H	16.0	-3.1	25.1	74.0	7.2	54.0
7387.300000	44.8	38.6	196.0	H	112.0	0.2	29.2	74.0	15.4	54.0



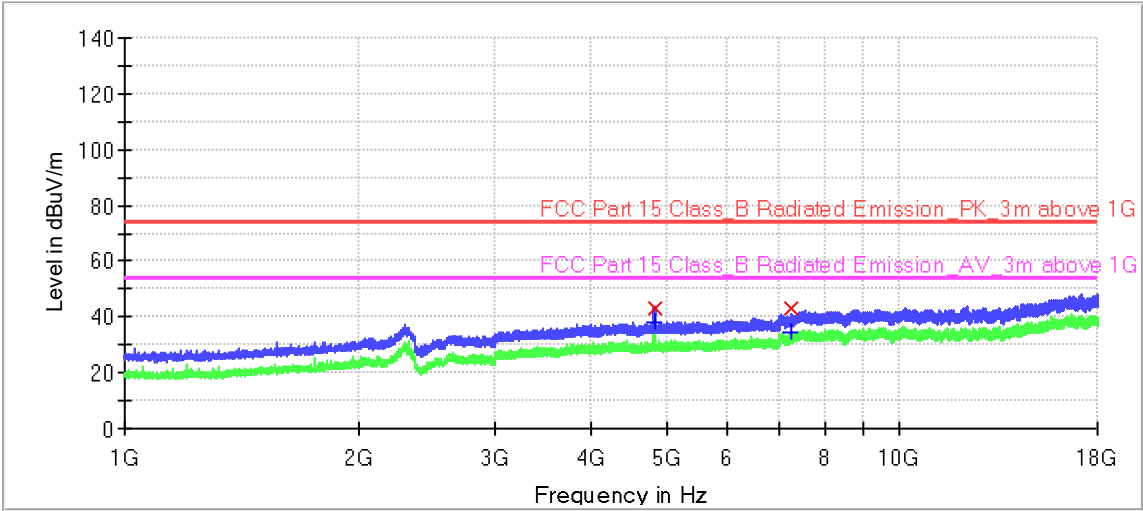
Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
4923.700000	40.2	34.4	199.0	V	14.0	-3.1	33.8	74.0	19.6	54.0
7387.300000	42.1	37.2	175.0	V	36.0	0.2	31.9	74.0	16.8	54.0



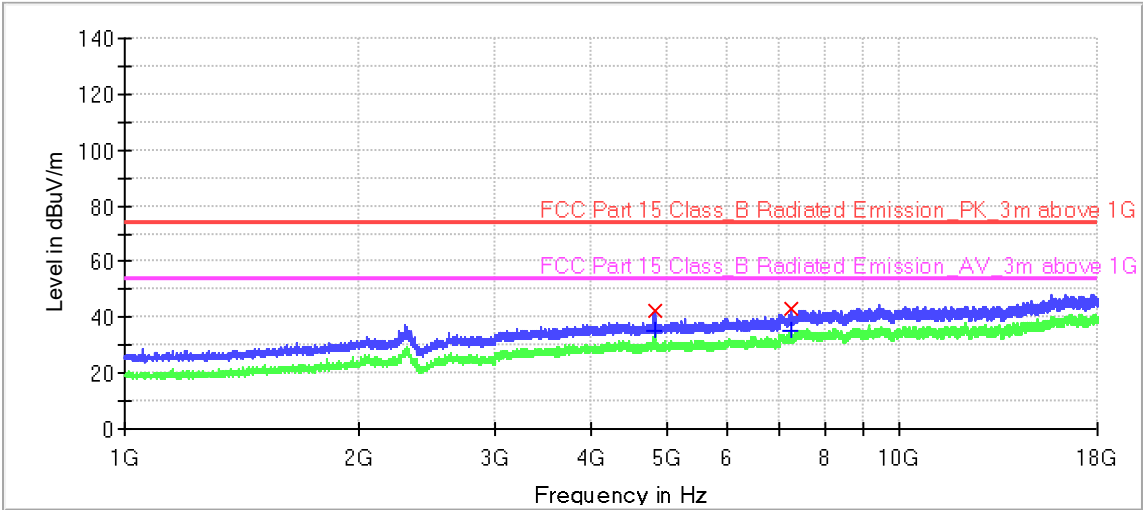
Radiated Emission 1-18 GHz at 802.11G

Frequency:2412MHz



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
4822.875000	43.4	38.4	185.0	H	15.0	-3.4	30.6	74.0	15.7	54.0
7235.812500	43.0	34.7	196.0	H	33.0	0.2	31.0	74.0	19.3	54.0

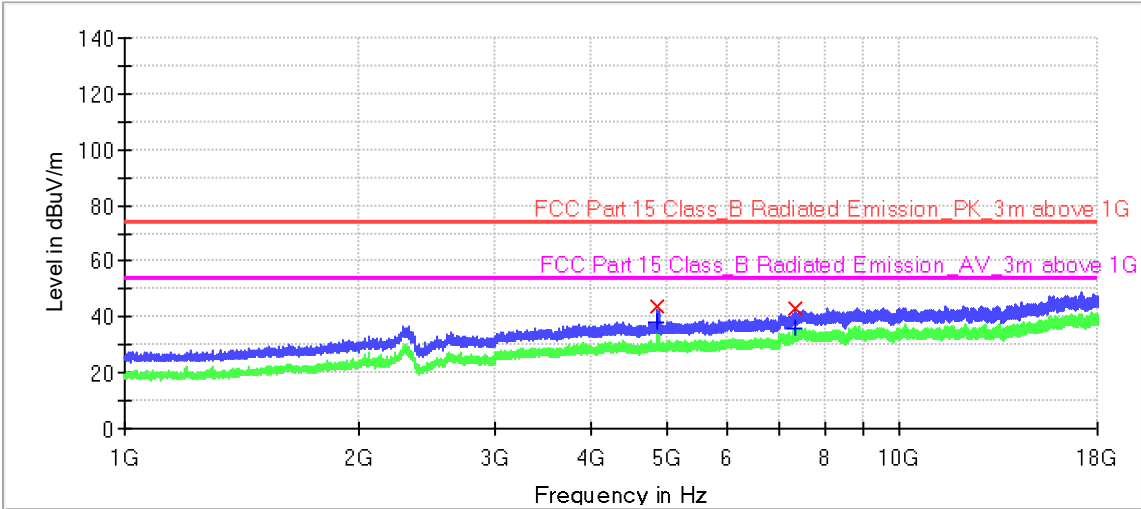


Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
4826.500000	42.4	35.1	179.0	V	174.0	-3.4	31.7	74.0	18.9	54.0
7235.200000	43.3	35.1	169.0	V	36.0	0.2	30.7	74.0	18.9	54.0

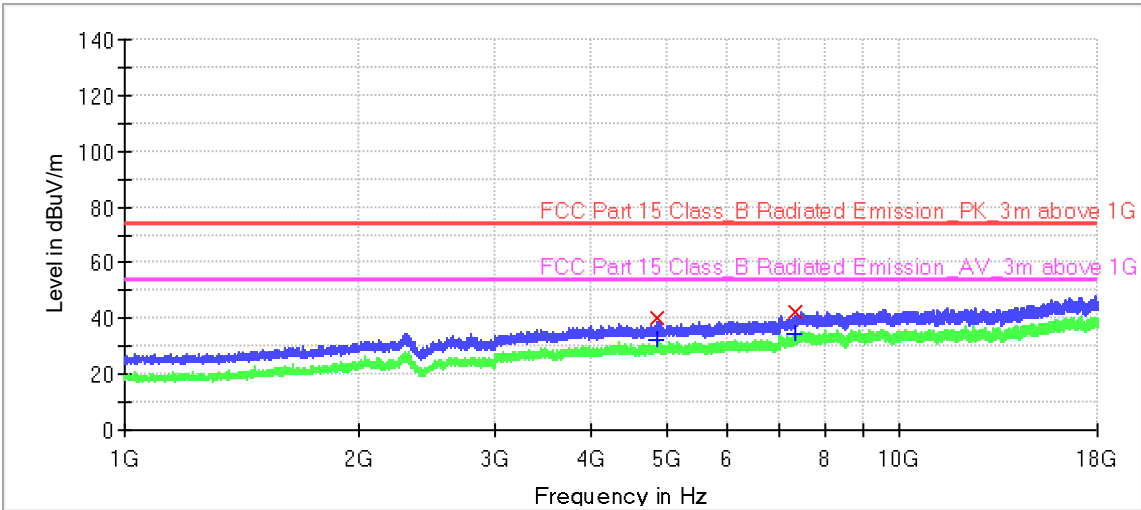


Frequency:2437MHz



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
4871.200000	43.5	37.9	196.0	H	36.0	-3.2	30.5	74.0	16.1	54.0
7313.800000	43.1	35.6	174.0	H	142.0	0.1	30.9	74.0	18.4	54.0

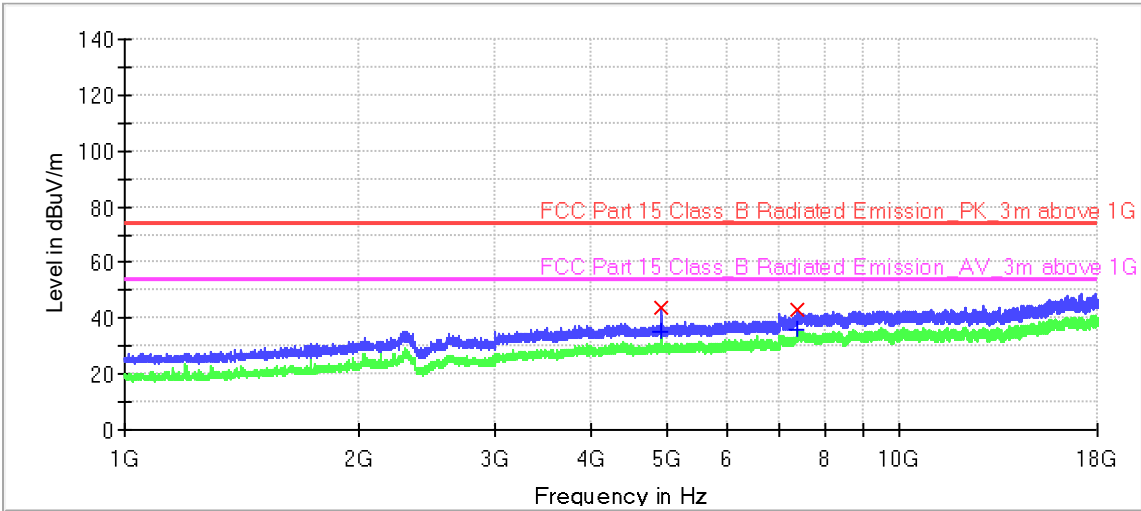


Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
4877.500000	40.2	32.2	187.0	V	15.0	-3.2	33.8	74.0	21.8	54.0
7315.000000	42.2	34.7	166.0	V	12.0	0.1	31.8	74.0	19.3	54.0

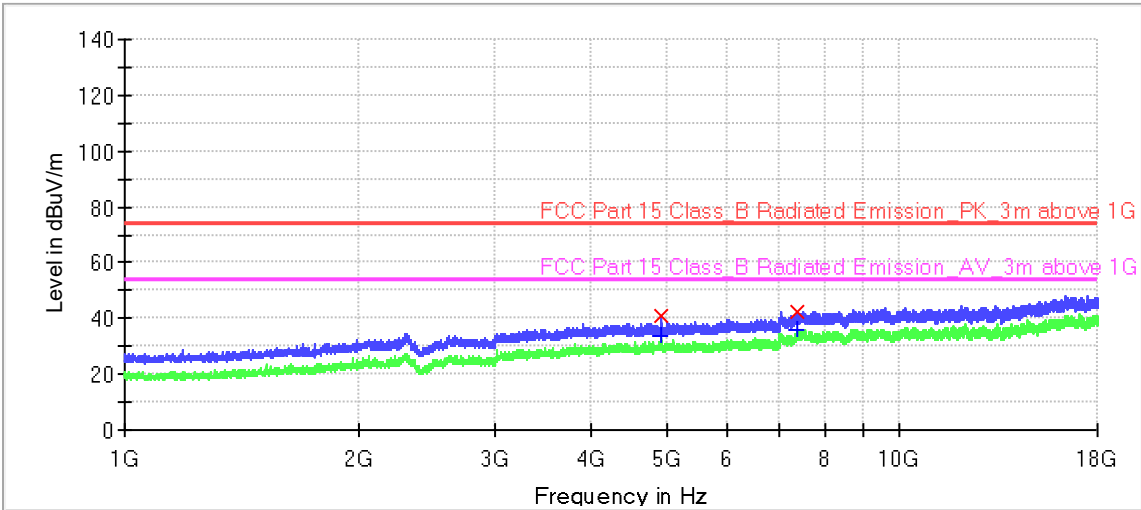


Frequency:2462MHz



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
4925.800000	43.9	34.9	199.0	H	3.0	-3.1	30.1	74.0	19.1	54.0
7389.400000	43.3	35.8	174.0	H	12.0	0.2	30.7	74.0	18.2	54.0



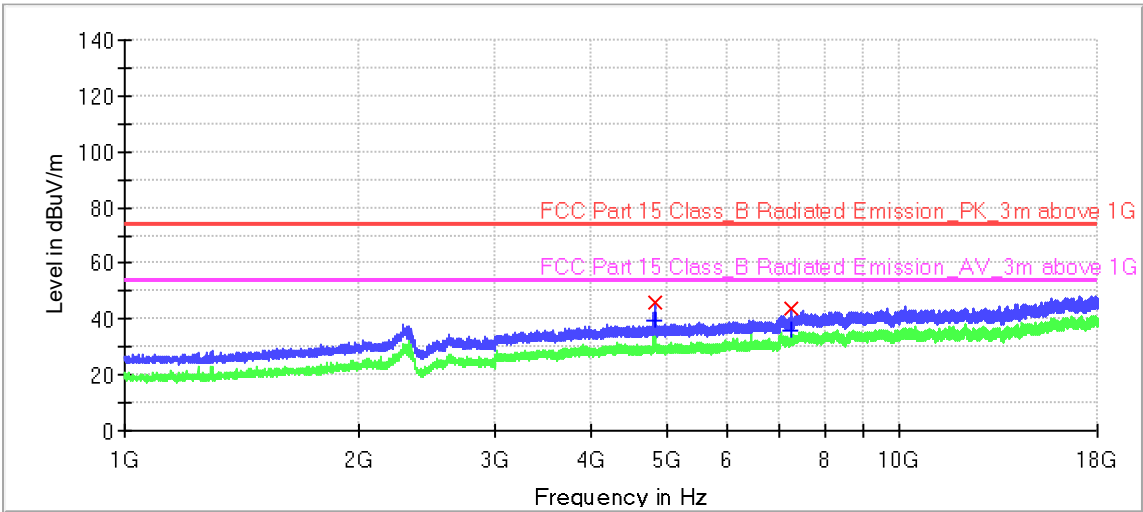
Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
4923.281250	41.1	33.7	187.0	V	12.0	-3.1	33.0	74.0	20.3	54.0
7388.281250	42.5	35.9	196.0	V	19.0	0.2	31.6	74.0	18.1	54.0



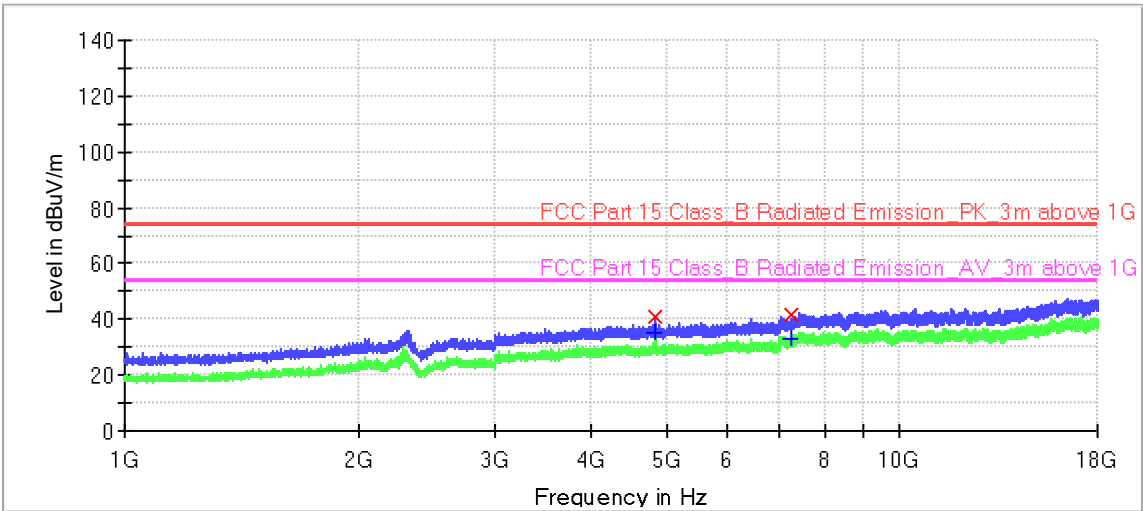
Radiated Emission 1-18 GHz at 802.11N20

Frequency:2412MHz



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
4825.600000	45.8	39.8	195.0	H	3.0	-3.4	28.2	74.0	14.2	54.0
7235.800000	43.8	35.8	178.0	H	14.0	0.2	30.2	74.0	18.2	54.0

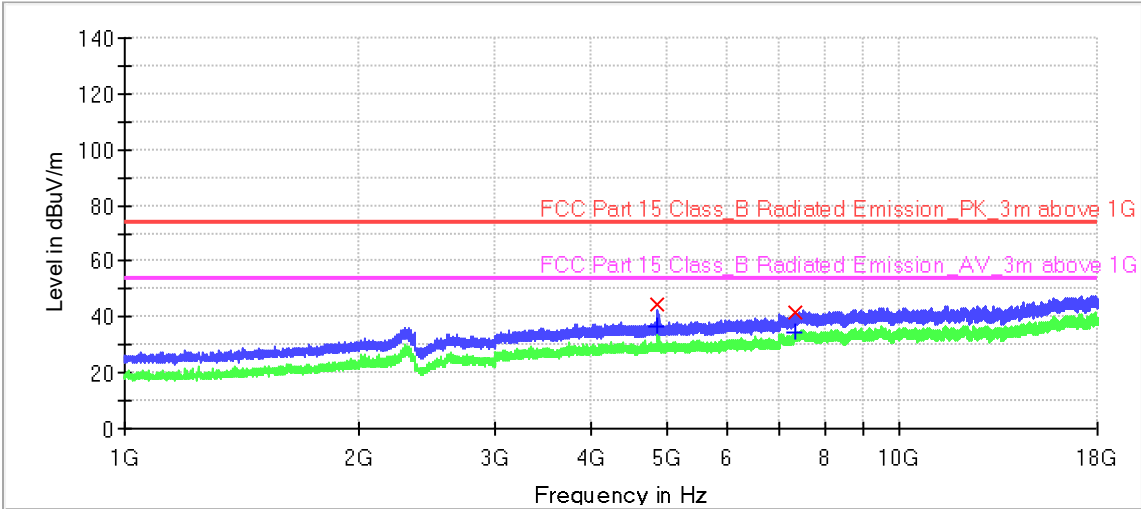


Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
4825.000000	41.9	35.1	178.0	V	14.0	-3.4	32.1	74.0	18.9	54.0
7235.800000	41.3	32.9	196.0	V	36.0	0.2	32.7	74.0	21.1	54.0

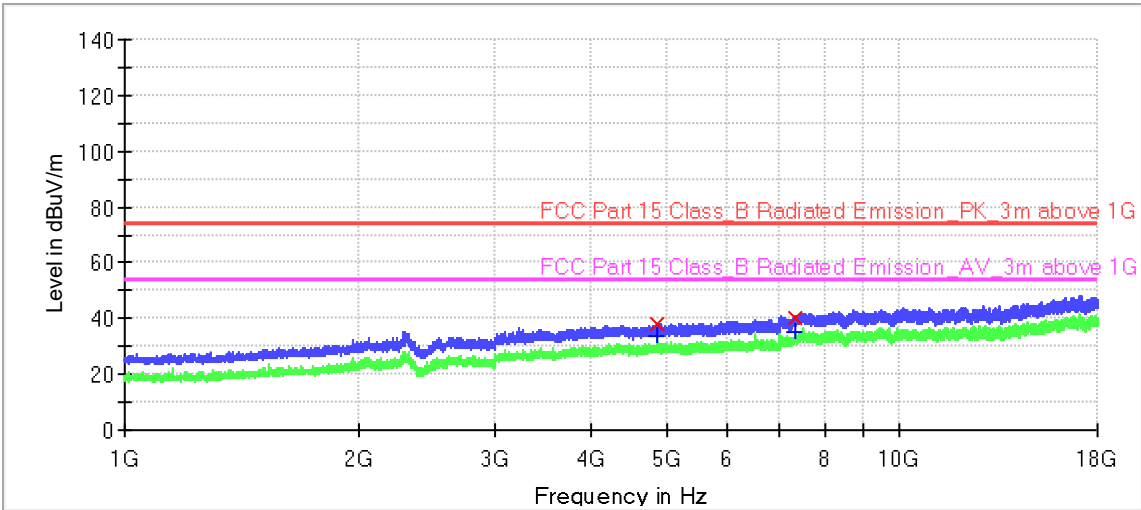


Frequency:2437MHz



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
4875.400000	44.6	36.9	186.0	H	34.0	-3.2	29.4	74.0	17.1	54.0
7315.900000	41.5	34.5	195.0	H	12.0	0.1	32.5	74.0	19.5	54.0

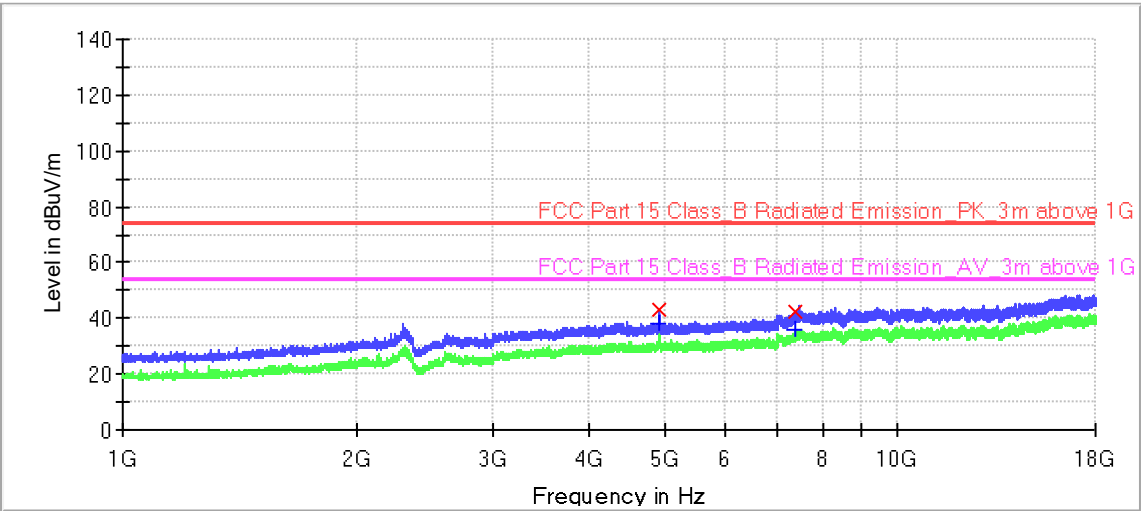


Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
4872.700000	38.2	34.1	189.0	V	12.0	-3.2	35.8	74.0	19.9	54.0
7312.900000	40.3	35.5	169.0	V	174.0	0.1	33.7	74.0	18.5	54.0

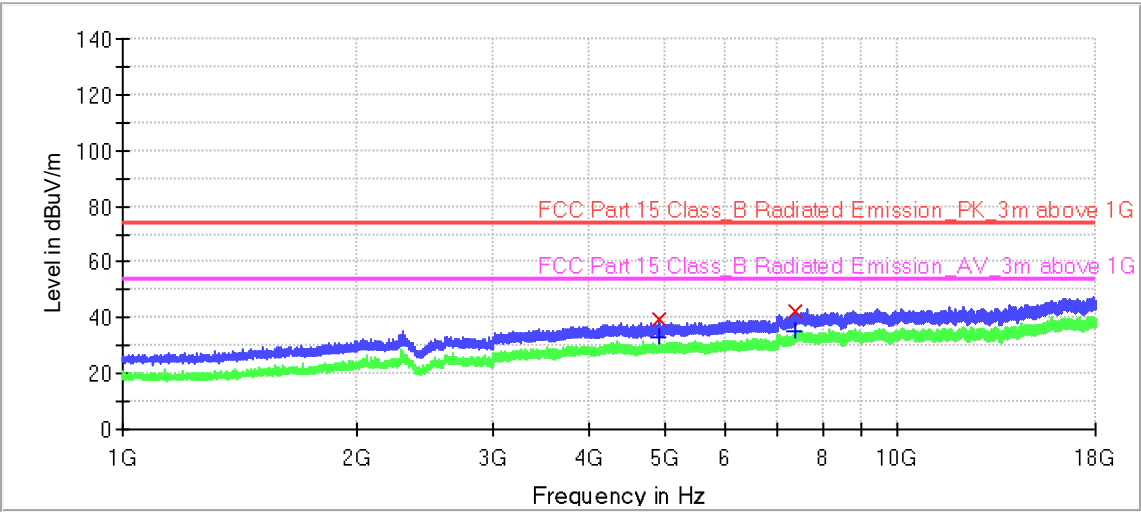


Frequency:2462MHz



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
4922.800000	42.8	38.0	175.0	H	15.0	-3.1	31.2	74.0	16.1	54.0
7386.100000	42.5	35.9	196.0	H	33.0	0.2	31.5	74.0	18.1	54.0



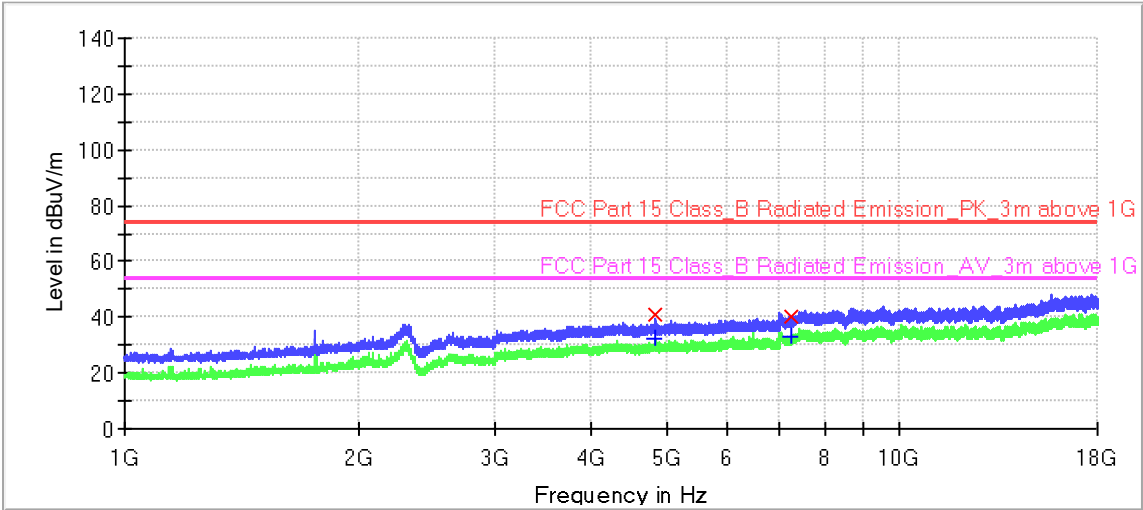
Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
4924.300000	39.7	32.7	175.0	V	359.0	-3.1	34.3	74.0	21.3	54.0
7386.100000	42.1	35.3	196.0	V	12.0	0.2	31.9	74.0	18.7	54.0



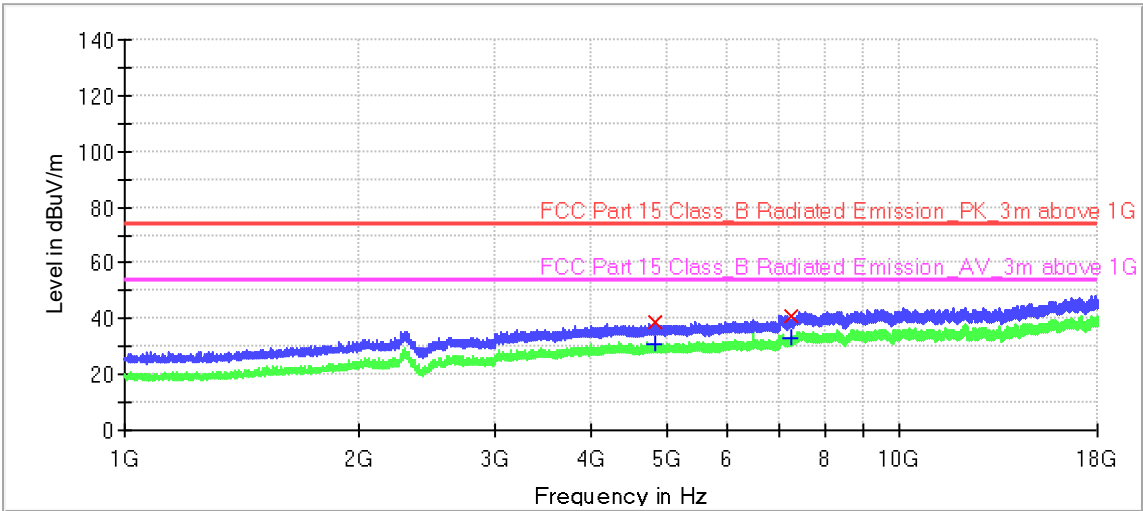
Radiated Emission 1-18 GHz at 802.11N40

Frequency:2422MHz



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
4845.100000	41.0	32.5	175.0	H	12.0	-3.3	33.0	74.0	21.6	54.0
7264.600000	39.9	32.9	169.0	H	173.0	0.2	34.1	74.0	21.1	54.0

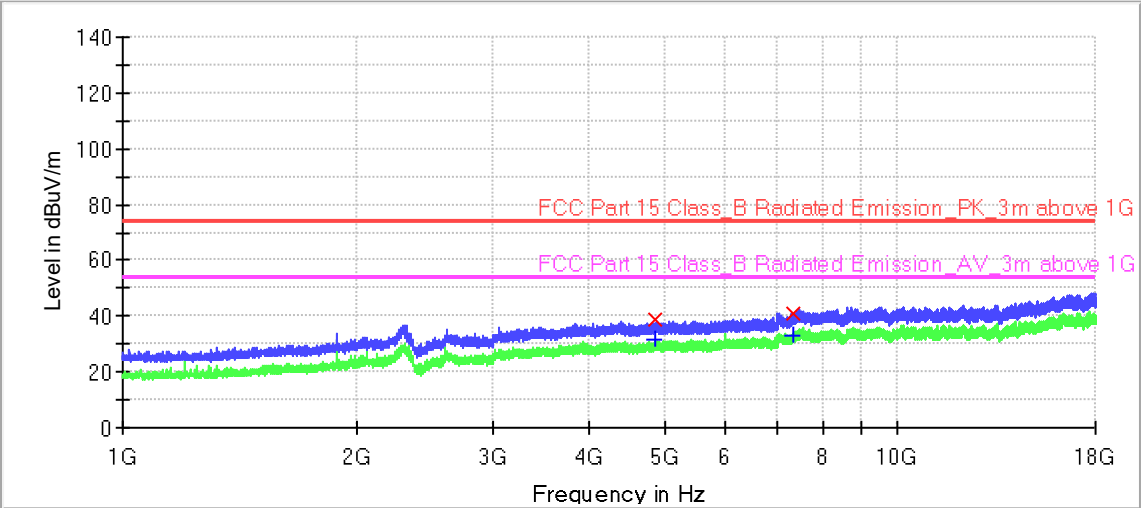


Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
4843.900000	39.0	31.1	175.0	V	16.0	-3.3	35.0	74.0	22.9	54.0
7266.100000	40.8	32.7	198.0	V	14.0	0.2	33.2	74.0	21.3	54.0

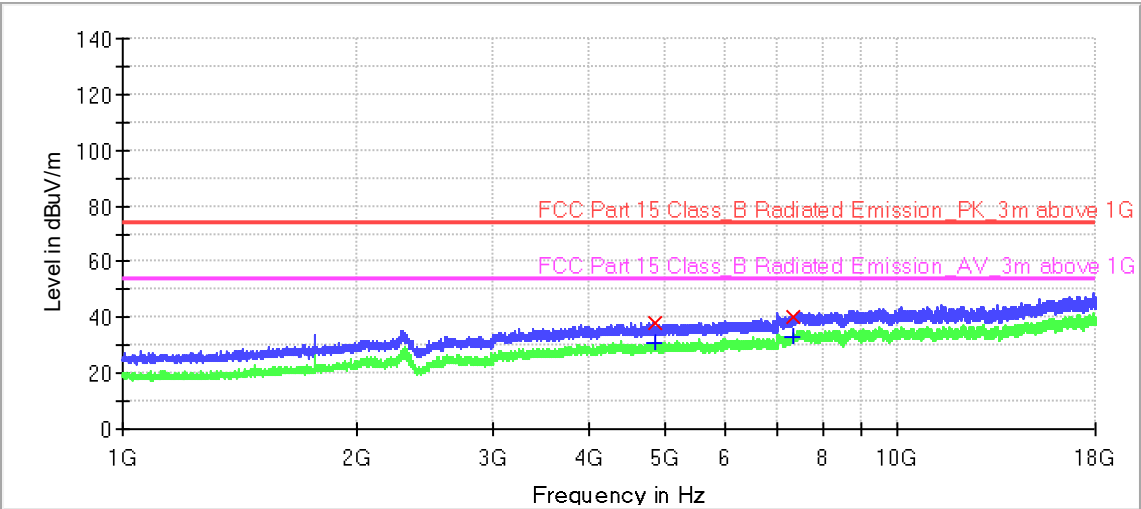


Frequency:2437MHz



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
4876.000000	38.9	31.8	178.0	H	11.0	-3.2	35.1	74.0	22.2	54.0
7311.100000	41.2	33.2	196.0	H	36.0	0.1	32.8	74.0	20.8	54.0

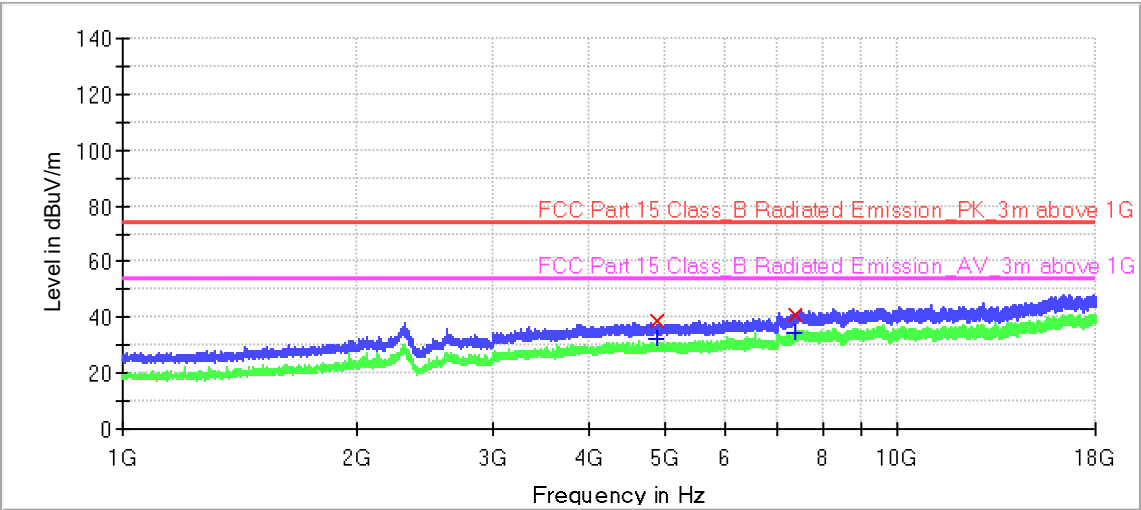


Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
4876.000000	38.0	30.9	175.0	V	138.0	-3.2	36.0	74.0	23.1	54.0
7312.900000	40.5	33.3	193.0	V	12.0	0.1	33.5	74.0	20.7	54.0

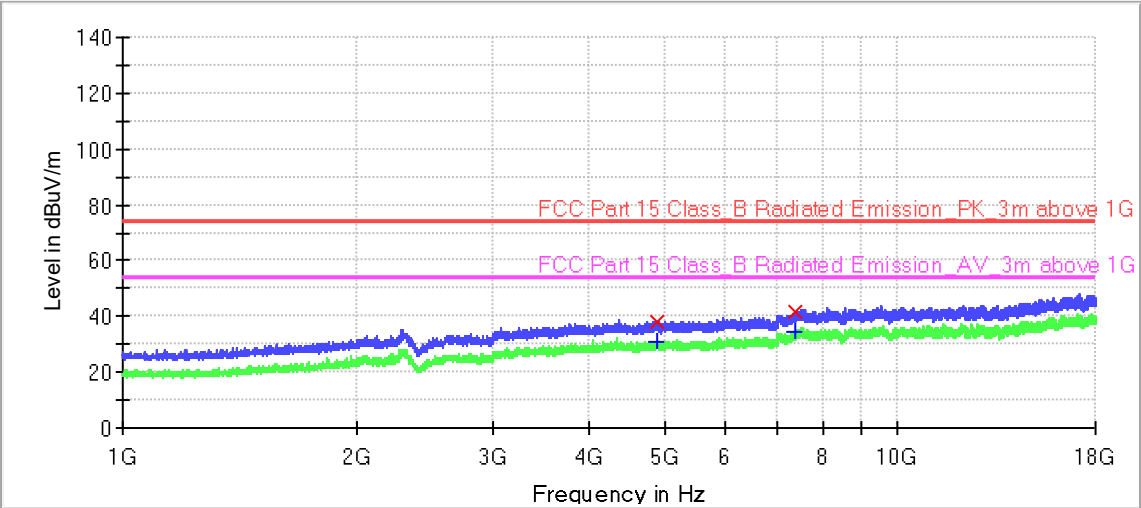


Frequency:2452MHz



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
4903.900000	38.5	32.1	175.0	H	14.0	-3.1	35.5	74.0	21.9	54.0
7356.100000	41.3	34.7	188.0	H	164.0	0.1	32.7	74.0	19.3	54.0



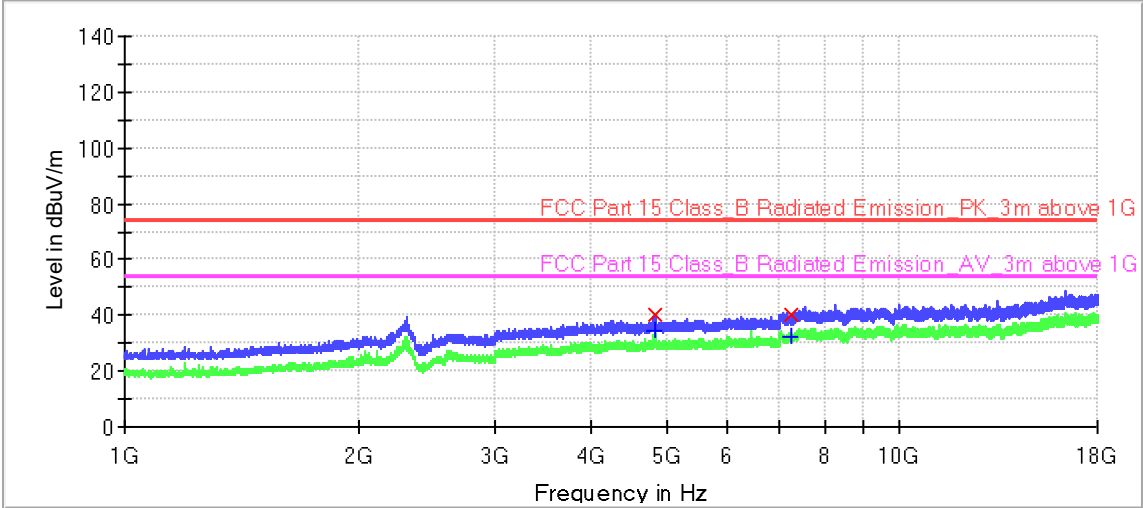
Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
4903.000000	38.3	31.0	189.0	V	12.0	-3.1	35.8	74.0	23.0	54.0
7356.100000	41.7	34.4	178.0	V	174.0	0.1	32.3	74.0	19.6	54.0



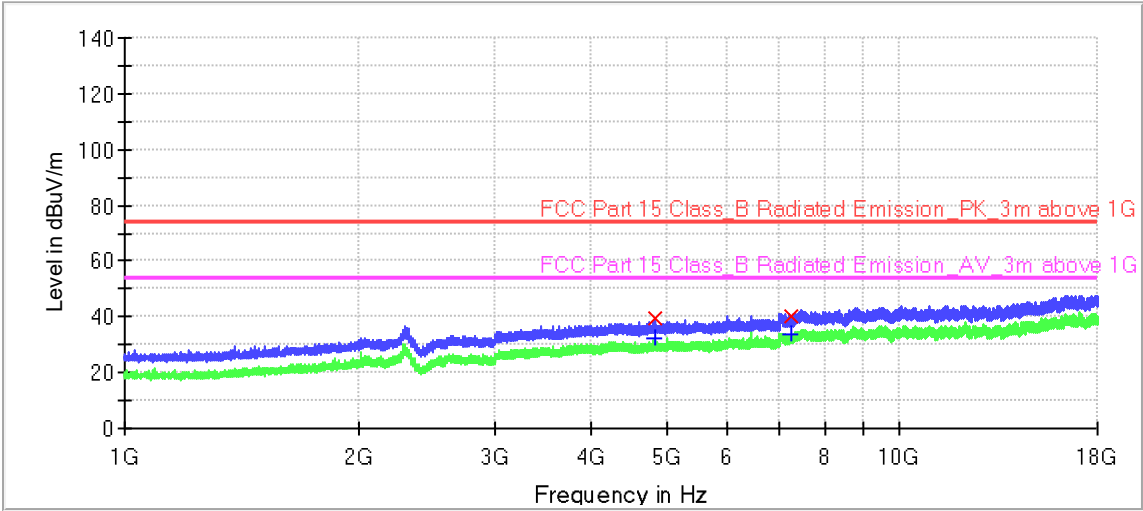
Radiated Emission 1-18 GHz at 802.11AX20

Frequency:2412MHz



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
4825.600000	40.3	34.7	188.0	H	16.0	-3.4	33.7	74.0	19.3	54.0
7237.900000	40.0	32.6	197.0	H	17.0	0.2	34.0	74.0	21.5	54.0

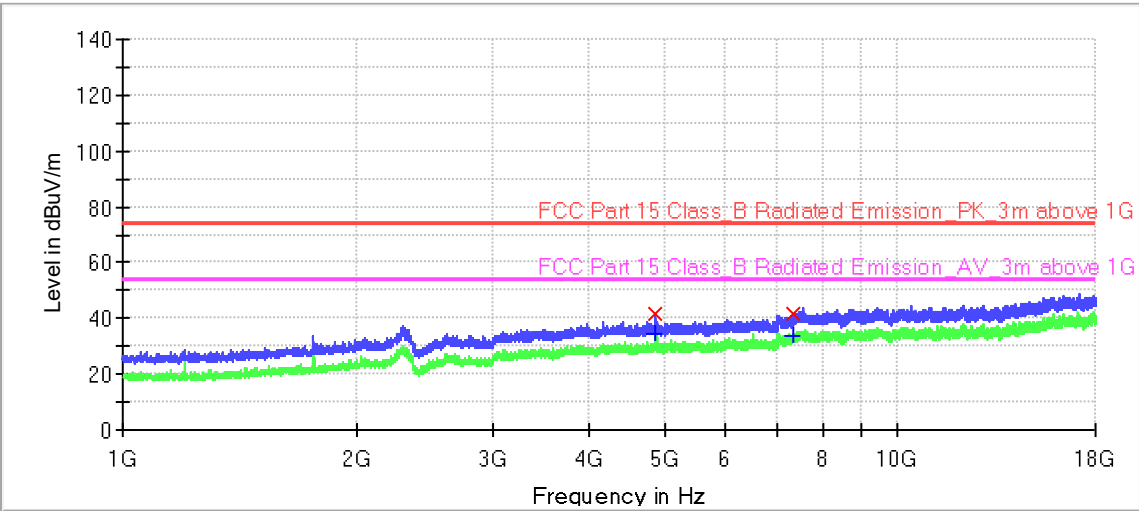


Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
4822.300000	39.3	32.1	198.0	V	12.0	-3.4	34.7	74.0	21.9	54.0
7235.200000	40.5	33.7	176.0	V	174.0	0.2	33.5	74.0	20.3	54.0

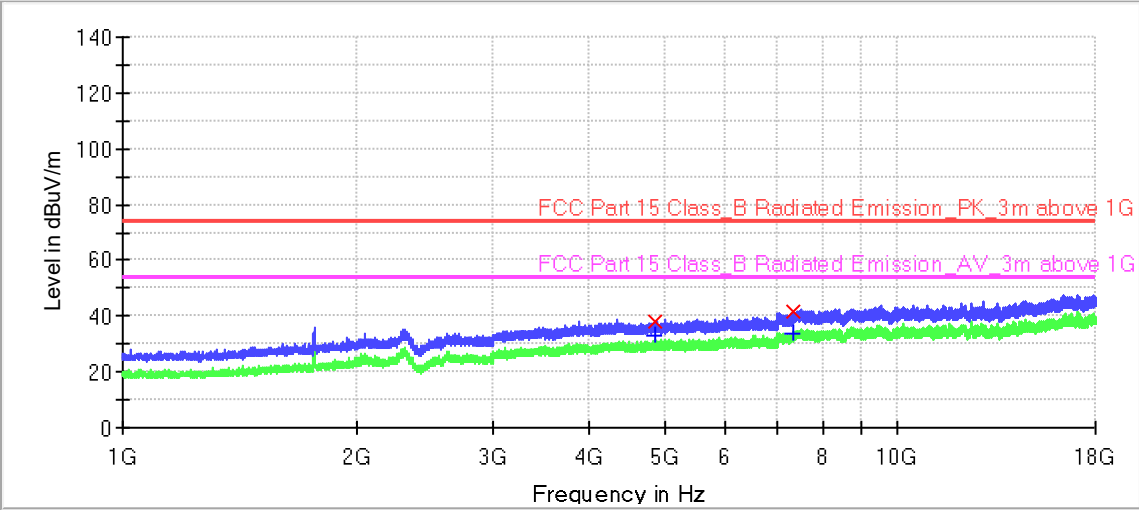


Frequency:2437MHz



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
4876.600000	41.5	34.3	178.0	H	47.0	-3.2	32.5	74.0	19.7	54.0
7313.500000	41.8	33.7	166.0	H	12.0	0.1	32.2	74.0	20.3	54.0

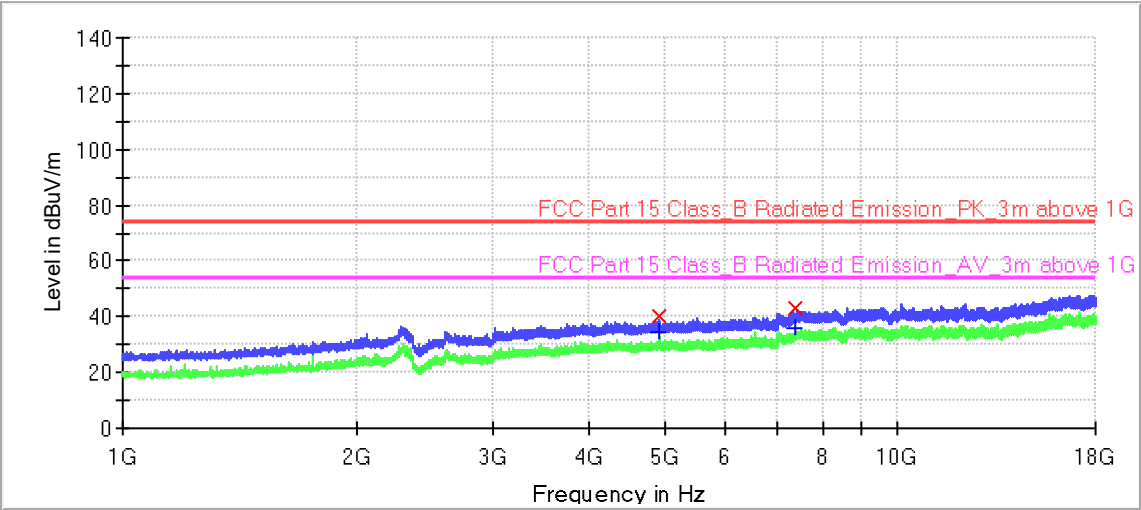


Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
4876.000000	38.1	33.0	174.0	V	12.0	-3.2	35.9	74.0	21.0	54.0
7313.500000	41.7	33.4	165.0	V	135.0	0.1	32.4	74.0	20.6	54.0

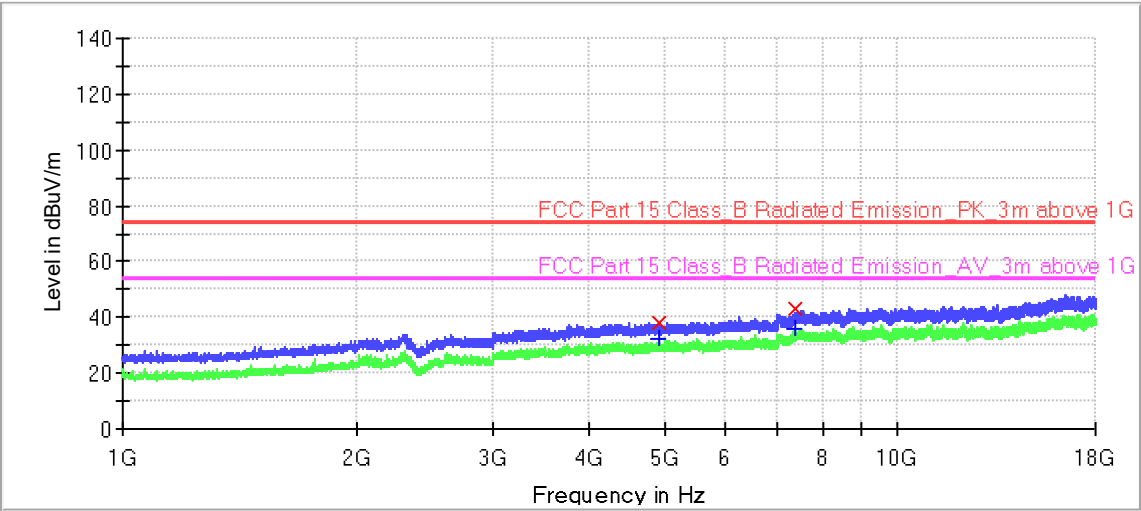


Frequency:2462MHz



Limit and Margin

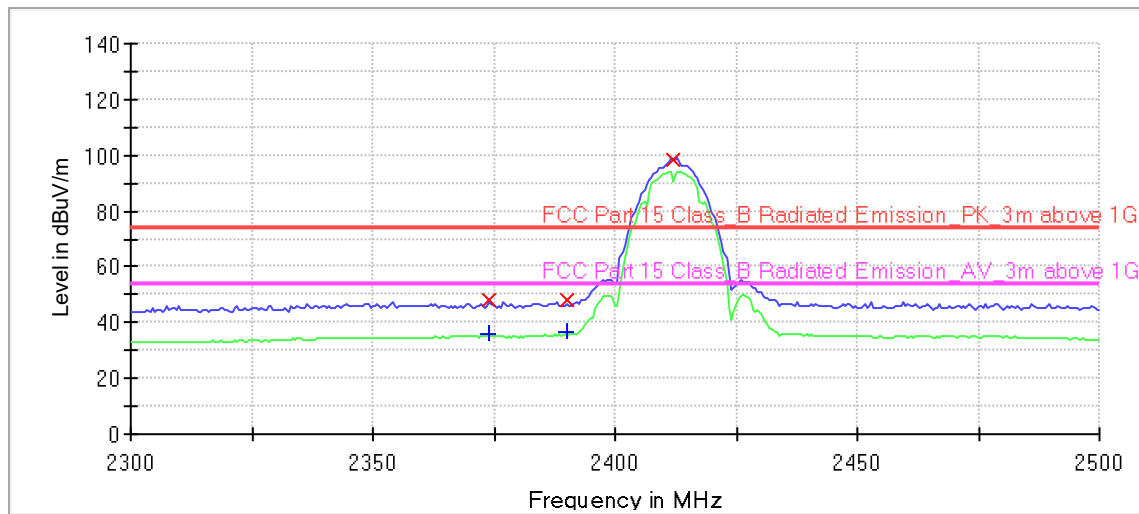
Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
4925.800000	40.3	34.2	167.0	H	12.0	-3.1	33.7	74.0	19.9	54.0
7388.800000	42.8	35.6	174.0	H	1.0	0.2	31.3	74.0	18.4	54.0



Limit and Margin

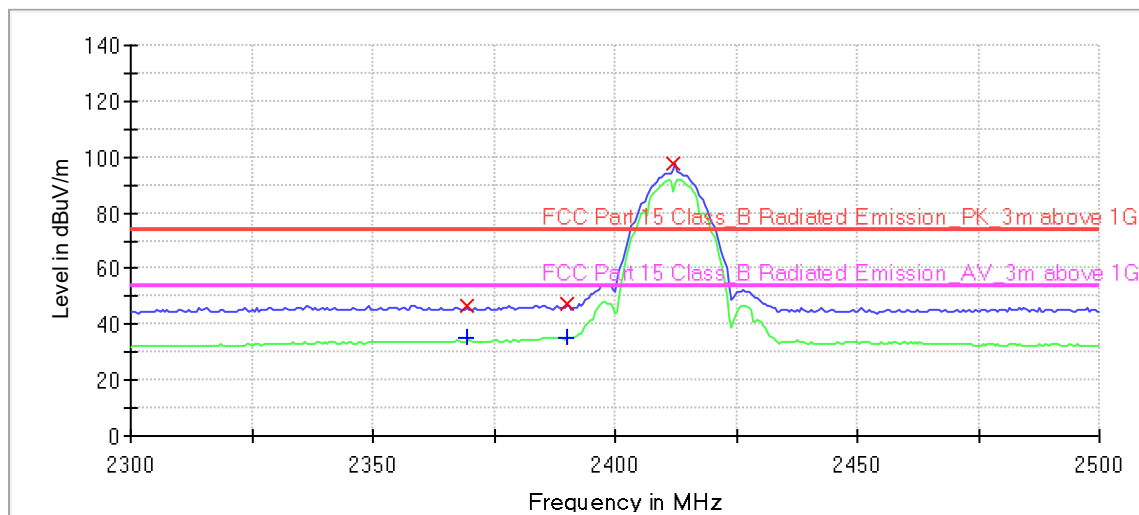
Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
4923.100000	38.2	32.2	185.0	V	12.0	-3.1	35.8	74.0	21.8	54.0
7386.100000	42.8	35.8	178.0	V	359.0	0.2	31.2	74.0	18.2	54.0

Band Edge at 802.11B



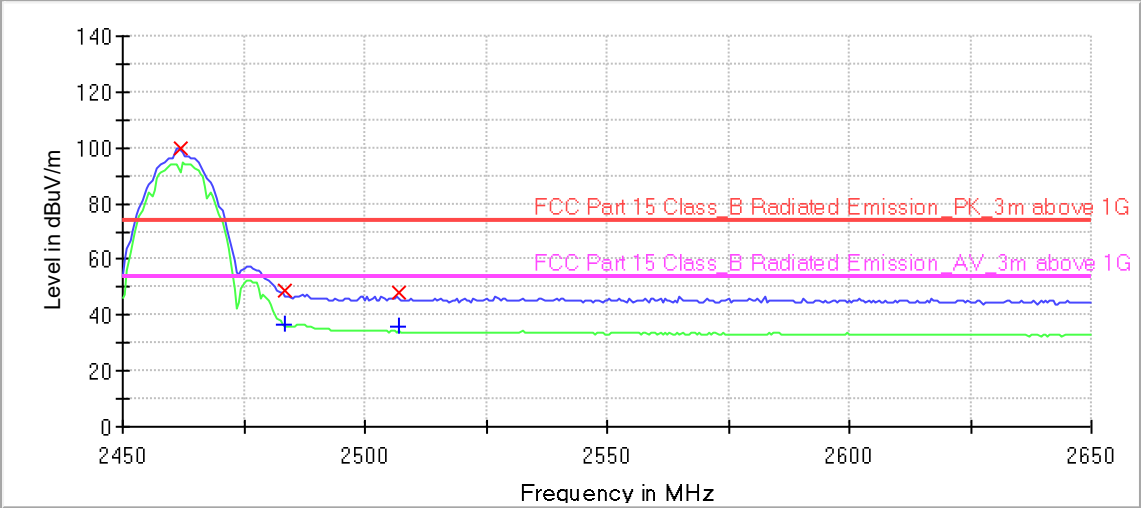
Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
2374.000000	48.2	35.6	178.0	H	161.0	-2.0	25.8	74.0	18.4	54.0
2390.000000	48.2	36.5	177.0	H	14.0	-2.0	25.8	74.0	17.5	54.0
2412.000000	98.5	---	186.0	H	2.0	-1.9	---	---	---	---



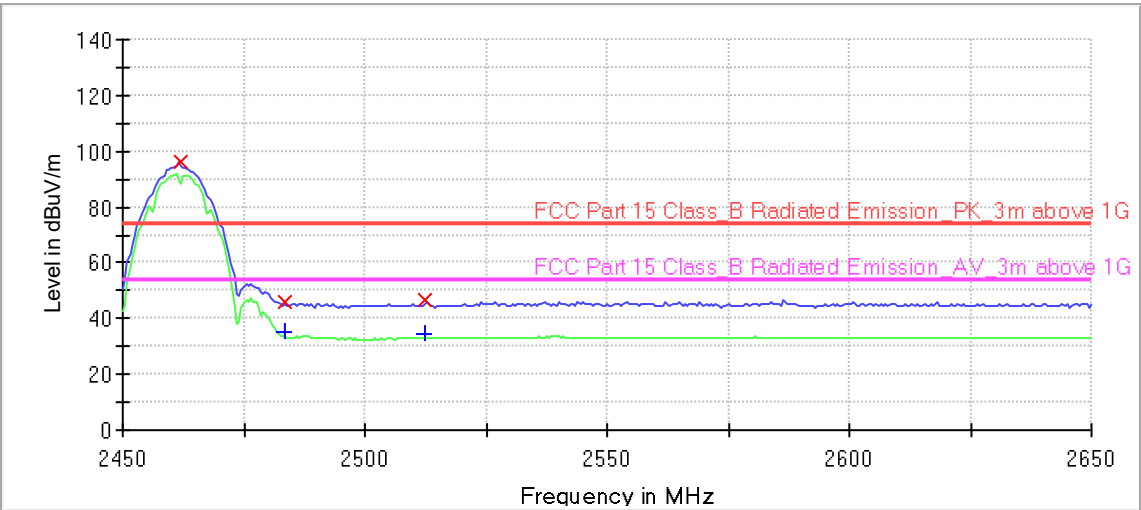
Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
2369.500000	46.9	35.1	174.0	V	10.0	-2.1	27.1	74.0	18.9	54.0
2390.000000	47.1	35.2	186.0	V	137.0	-2.0	26.9	74.0	18.8	54.0
2412.000000	97.5	---	177.0	V	359.0	-1.9	---	---	---	---



Limit and Margin

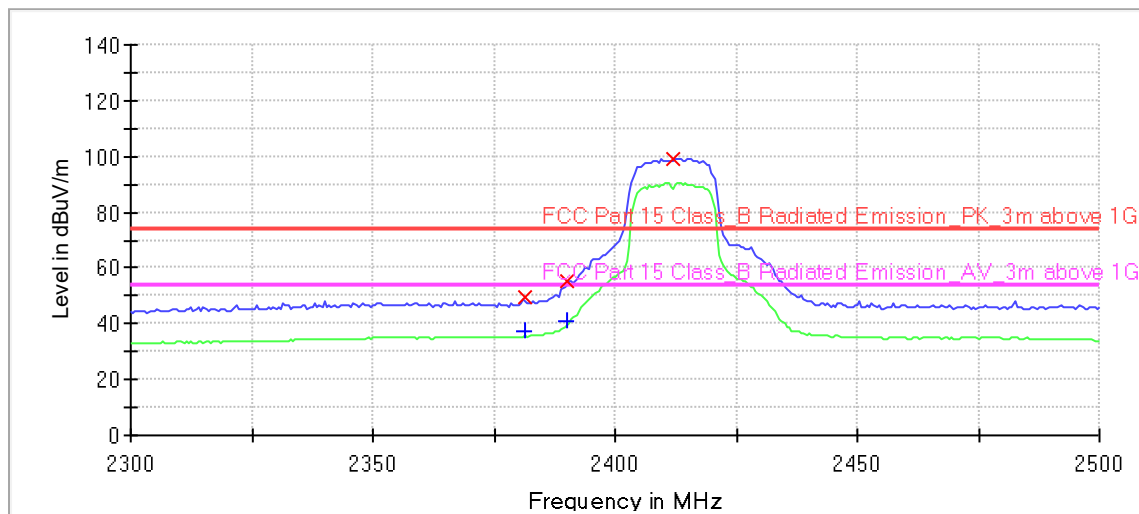
Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
2462.000000	99.6	---	175.0	H	1.0	-1.5	---	---	---	---
2483.500000	48.8	36.5	155.0	H	165.0	-1.4	25.2	74.0	17.5	54.0
2507.000000	48.3	36.0	173.0	H	2.0	-1.3	25.7	74.0	18.0	54.0



Limit and Margin

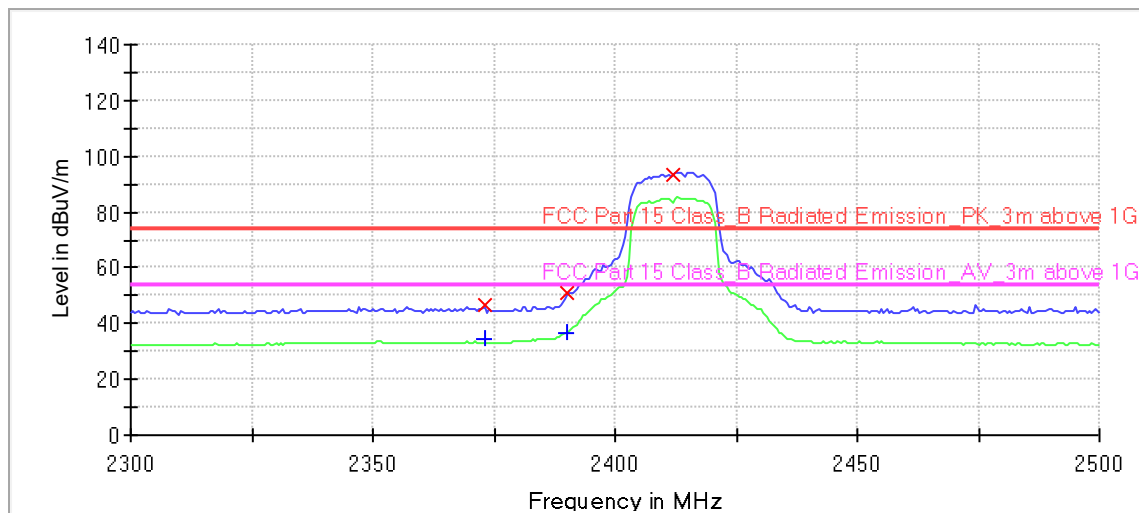
Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
2462.000000	96.1	---	175.0	V	1.0	-1.5	-22.1	74.0	---	---
2483.500000	46.2	35.1	155.0	V	75.0	-1.4	27.8	74.0	18.9	54.0
2512.500000	46.5	34.7	174.0	V	118.0	-1.3	27.6	74.0	19.3	54.0

Band Edge at 802.11G



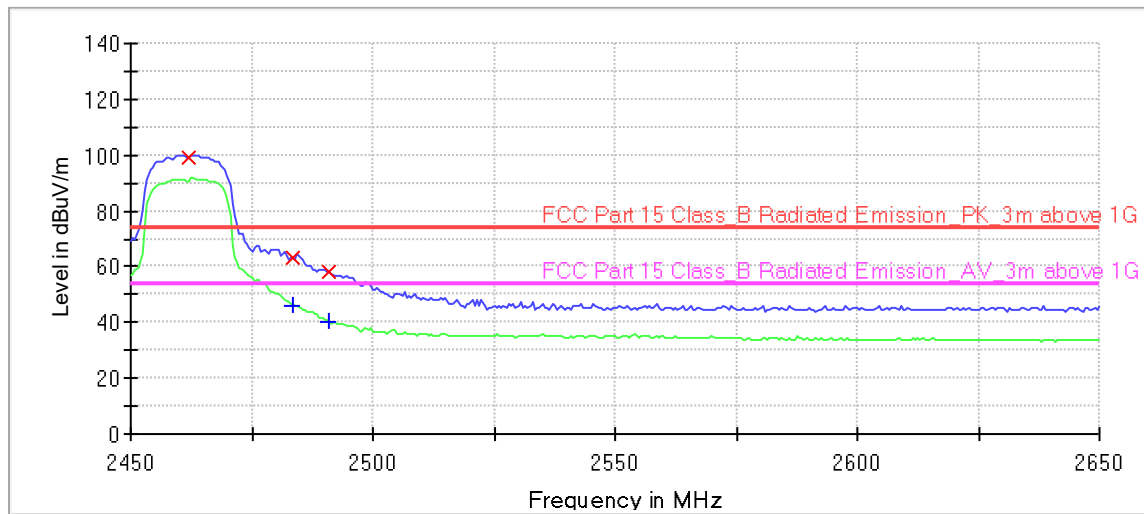
Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
2381.500000	49.2	37.0	185.0	H	17.0	-2.0	24.8	74.0	17.0	54.0
2390.000000	55.0	40.7	175.0	H	1.0	-2.0	19.0	74.0	13.3	54.0
2412.000000	98.9	---	155.0	H	33.0	-1.9	---	---	---	---



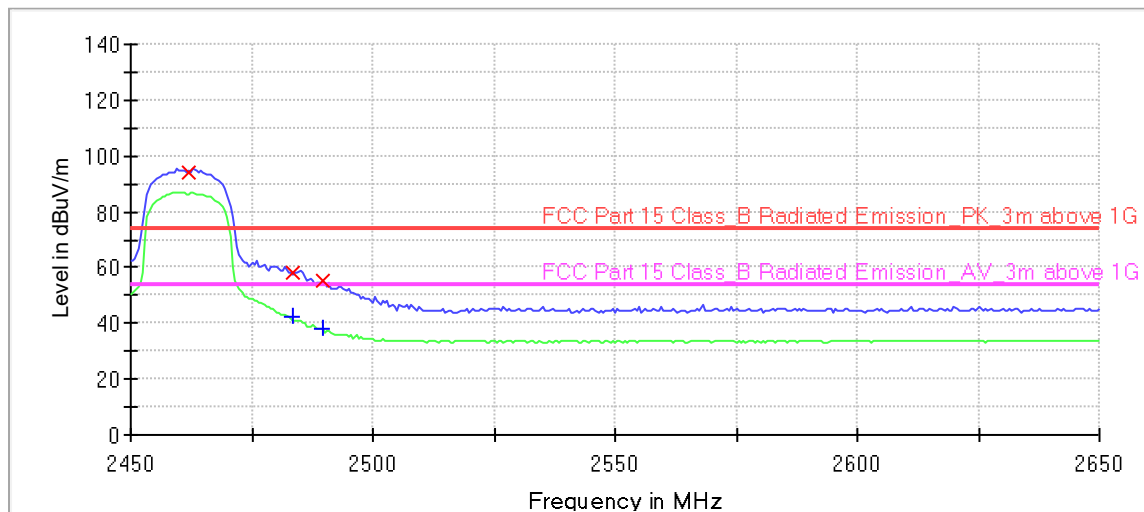
Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
2373.000000	46.9	34.3	187.0	V	11.0	-2.0	27.1	74.0	19.7	54.0
2390.000000	50.8	36.4	199.0	V	164.0	-2.0	23.2	74.0	17.6	54.0
2412.000000	93.6	---	173.0	V	17.0	-1.9	---	---	---	---



Limit and Margin

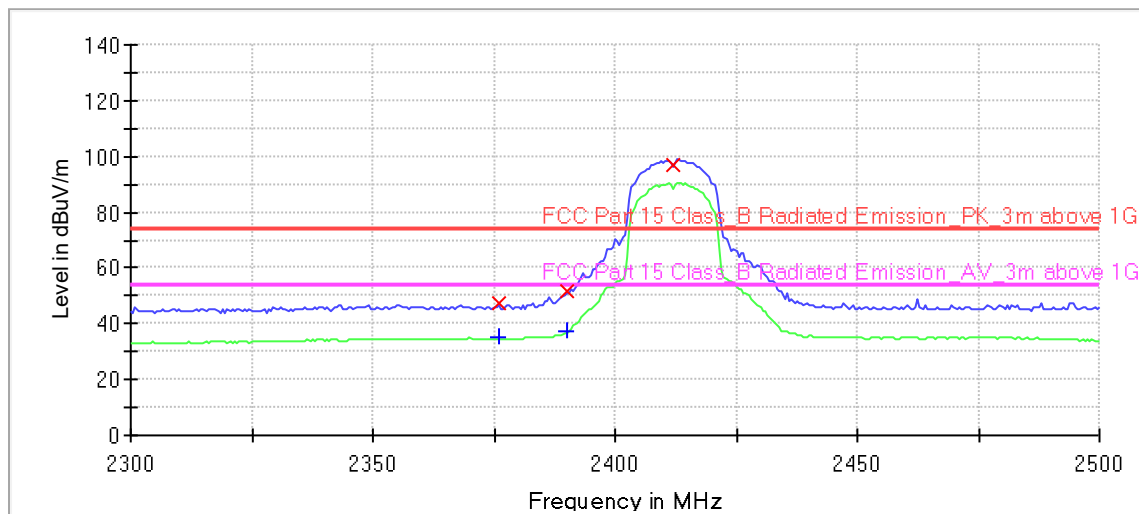
Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
2462.000000	99.3	---	175.0	H	1.0	-1.5	-25.3	74.0	---	---
2483.500000	63.0	46.1	188.0	H	17.0	-1.4	11.0	74.0	7.9	54.0
2491.000000	58.1	40.5	165.0	H	15.0	-1.4	15.9	74.0	13.5	54.0



Limit and Margin

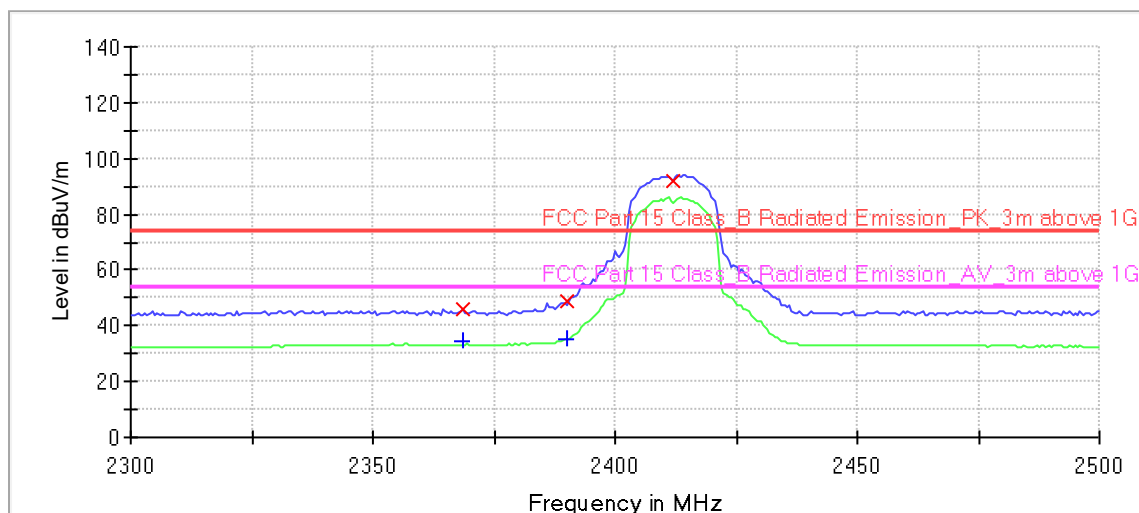
Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
2462.000000	94.2	---	175.0	V	0.0	-1.5	---	---	---	---
2483.500000	58.3	42.2	166.0	V	215.0	-1.4	15.7	74.0	11.8	54.0
2489.500000	55.4	37.8	150.0	V	270.0	-1.4	18.6	74.0	16.2	54.0

Band Edge at 802.11N20



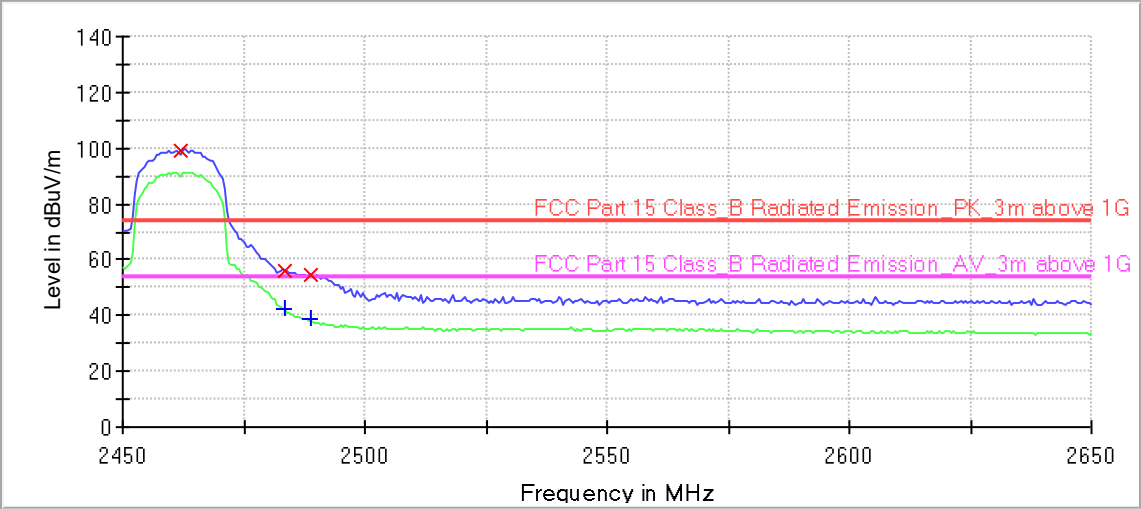
Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
2376.000000	47.7	35.5	188.0	H	33.0	-2.0	26.3	74.0	18.5	54.0
2390.000000	51.5	37.6	196.0	H	17.0	-2.0	22.5	74.0	16.4	54.0
2412.000000	97.2	---	177.0	H	114.0	-1.9	---	---	---	---



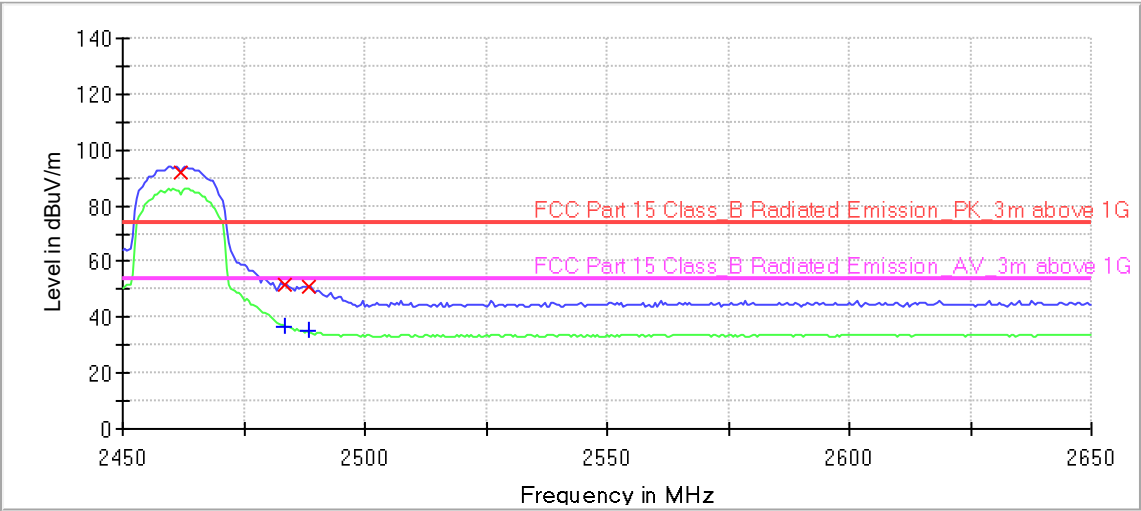
Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
2368.500000	46.1	34.2	174.0	V	12.0	-2.1	27.9	74.0	19.8	54.0
2390.000000	49.1	35.2	166.0	V	2.0	-2.0	24.9	74.0	18.8	54.0
2412.000000	92.1	---	187.0	V	175.0	-1.9	---	---	---	---



Limit and Margin

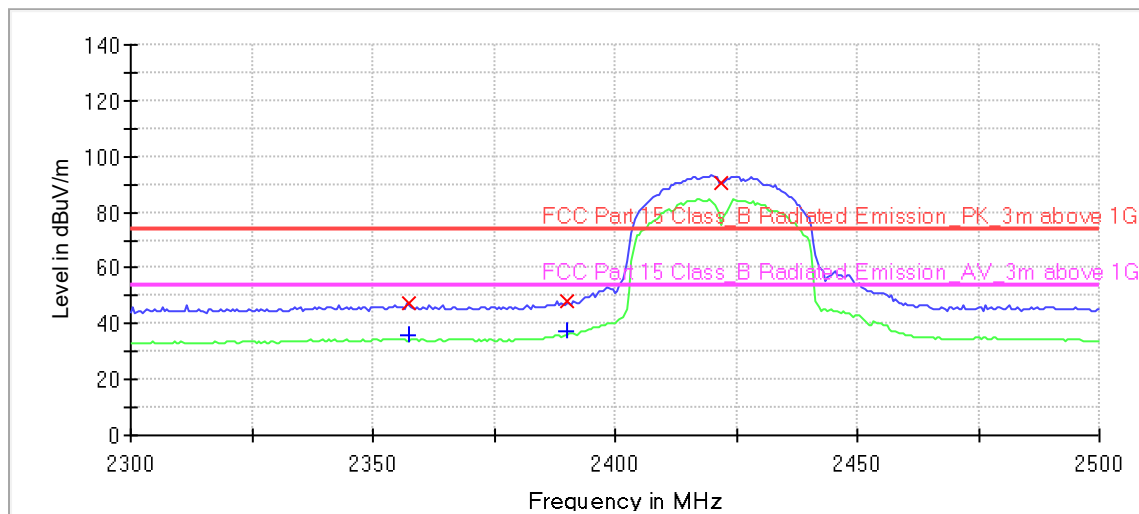
Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
2462.000000	98.8	---	175.0	H	36.0	-1.5	---	---	---	---
2483.500000	55.9	42.4	169.0	H	12.0	-1.4	18.1	74.0	11.6	54.0
2489.000000	54.8	39.0	150.0	H	358.0	-1.4	19.2	74.0	15.1	54.0



Limit and Margin

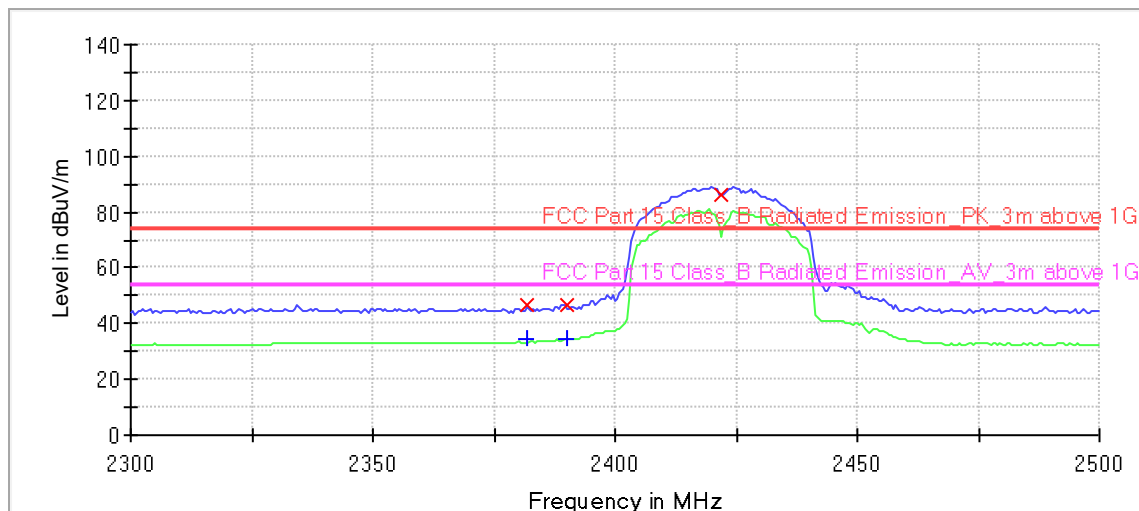
Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
2462.000000	92.0	---	174.0	V	1.0	-1.5	---	---	---	---
2483.500000	51.7	36.7	166.0	V	25.0	-1.4	22.3	74.0	17.3	54.0
2488.500000	51.0	35.1	174.0	V	1.0	-1.4	23.0	74.0	18.9	54.0

Band Edge at 802.11N40



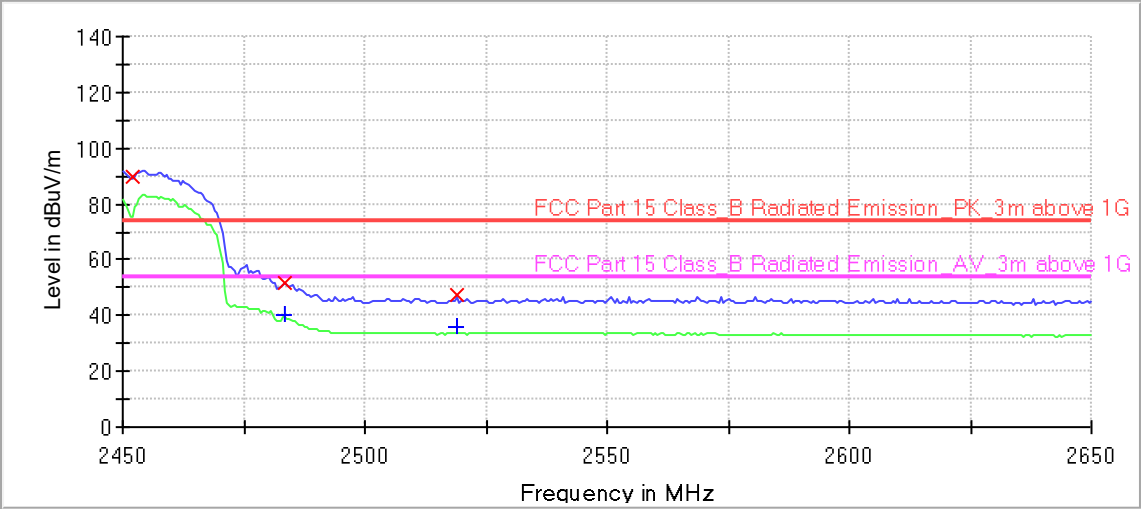
Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
2357.500000	47.3	36.1	174.0	H	1.0	-2.2	26.7	74.0	17.9	54.0
2390.000000	48.3	37.4	169.0	H	145.0	-2.0	25.7	74.0	16.6	54.0
2422.000000	90.6	---	150.0	H	14.0	-1.8	---	---	---	---



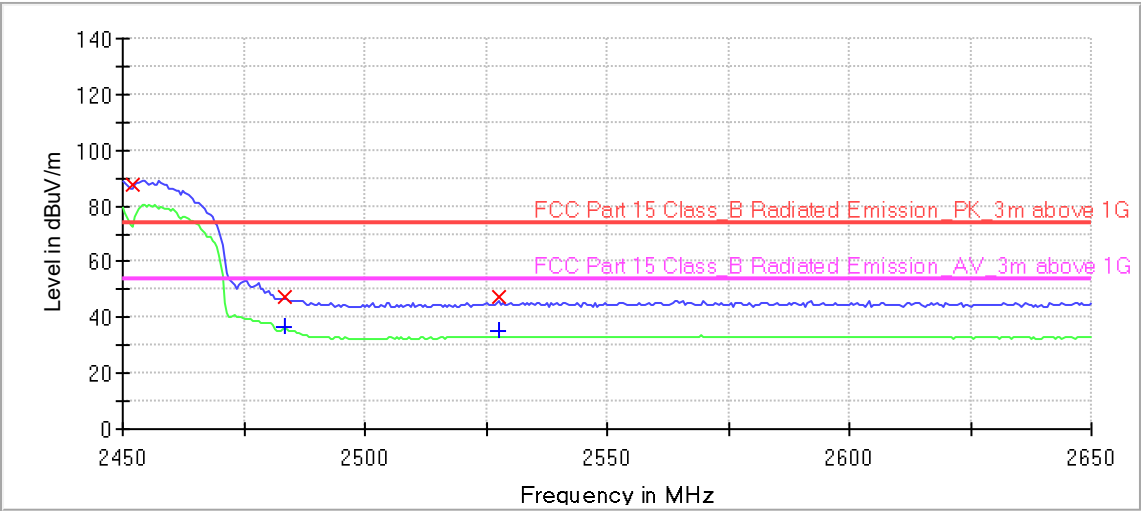
Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
2382.000000	46.9	34.6	178.0	V	359.0	-2.0	27.1	74.0	19.4	54.0
2390.000000	46.7	34.7	176.0	V	16.0	-2.0	27.3	74.0	19.3	54.0
2422.000000	86.2	---	199.0	V	24.0	-1.8	---	---	---	---



Limit and Margin

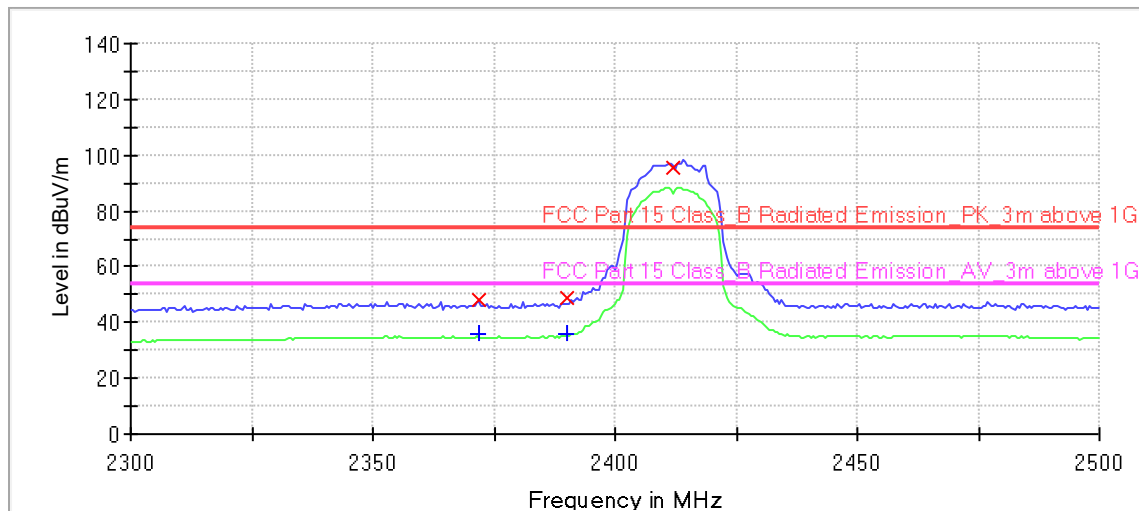
Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
2452.000000	89.9	---	173.0	H	12.0	-1.6	---	---	---	---
2483.500000	51.6	40.0	188.0	H	359.0	-1.4	22.4	74.0	14.0	54.0
2519.000000	47.3	35.6	176.0	H	165.0	-1.3	26.7	74.0	18.4	54.0



Limit and Margin

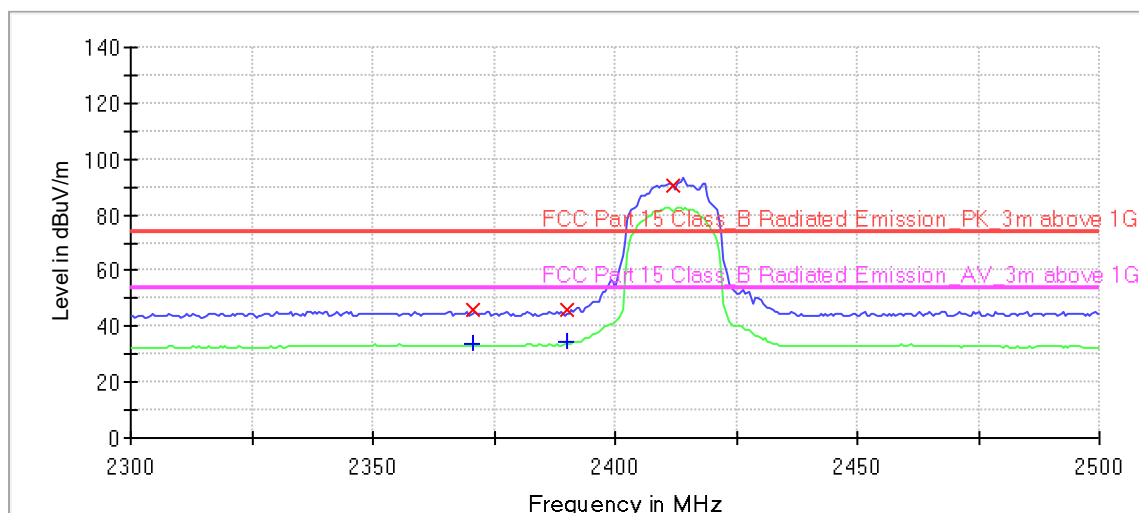
Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
2452.000000	87.4	---	178.0	V	0.0	-1.6	---	---	---	---
2483.500000	47.4	36.6	169.0	V	36.0	-1.4	26.6	74.0	17.4	54.0
2527.500000	47.1	35.2	174.0	V	32.0	-1.2	26.9	74.0	18.8	54.0

Band Edge at 802.11AX20



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
2372.000000	47.8	35.6	176.0	H	14.0	-2.1	26.2	74.0	18.4	54.0
2390.000000	48.5	36.1	172.0	H	173.0	-2.0	25.5	74.0	17.9	54.0
2412.000000	95.7	---	176.0	H	12.0	-1.9	-21.7	74.0	---	---

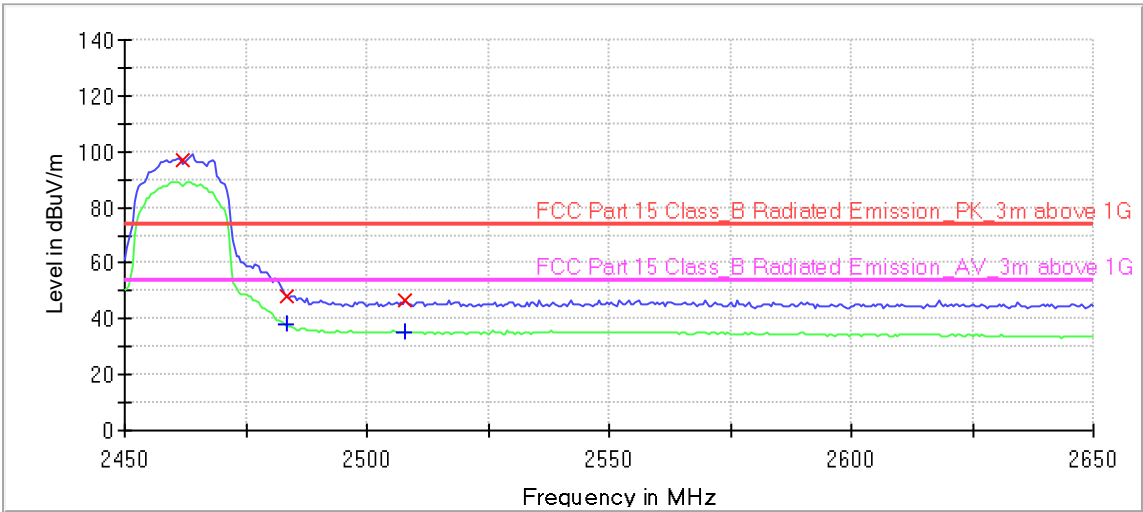


Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
2370.500000	46.3	34.1	176.0	V	1.0	-2.1	27.7	74.0	19.9	54.0
2390.000000	46.1	34.7	177.0	V	47.0	-2.0	27.9	74.0	19.3	54.0
2412.000000	90.4	---	186.0	V	138.0	-1.9	---	---	---	---

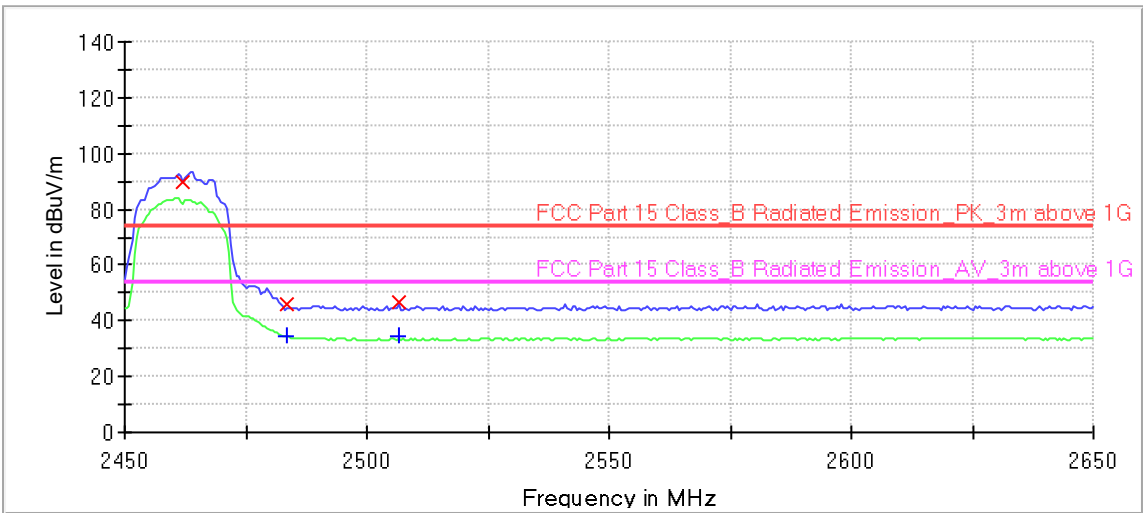


1-18GHz Radiated Emission



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
2462.000000	97.2	---	169.0	H	0.0	-1.5	---	---	---	---
2483.500000	48.1	37.9	196.0	H	12.0	-1.4	25.9	74.0	16.1	54.0
2508.000000	47.0	35.5	175.0	H	331.0	-1.3	27.0	74.0	18.5	54.0



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	AV (dBuV/m)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Margin - AV (dB)	Limit - AV (dBuV/m)
2462.000000	89.9	---	175.0	V	0.0	-1.5	---	---	---	---
2483.500000	46.0	34.8	169.0	V	111.0	-1.4	28.0	74.0	19.2	54.0
2506.500000	46.9	34.4	150.0	V	12.0	-1.3	27.1	74.0	19.6	54.0

The worst case of Radiated Emission Above 18GHz

18-40GHz Radiated Emission

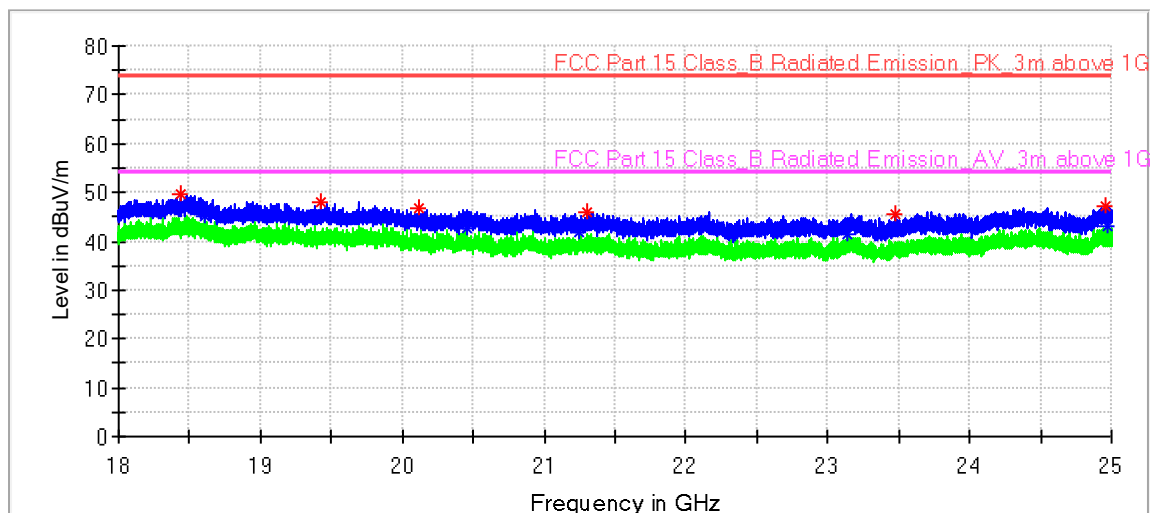
EUT Information

EUT Name: Wi-Fi and Bluetooth Module
 Model: T7-M
 Client: Hangzhou Tuya Information Technology Co.,Ltd
 Op Cond: TX_2412MHz at 802.11G
 Operator: Chengjie GUO
 Standard: FCC Part15.209
 Sample No.: SHA-1064638-1

Sweep Setup: RE_3116C_pre [EMI radiated]

Hardware Setup: RE_3116C
 Receiver: [FSV 40]
 Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamplifier
18 GHz - 25 GHz	500 kHz	PK+ ; AVG	1 MHz	0.05 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18432.500000	49.58	---	74.00	24.42	317.0	H	261.0	8.6
18605.500000	---	45.32	54.00	8.68	316.0	H	120.0	8.5
19200.000000	---	44.52	54.00	9.48	228.0	H	219.0	8.2
19419.500000	48.20	---	74.00	25.80	381.0	H	39.0	8.3
20116.500000	46.78	---	74.00	27.22	344.0	H	75.0	8.7
20450.000000	---	42.56	54.00	11.44	171.0	H	75.0	8.7
21242.500000	---	41.86	54.00	12.14	271.0	H	180.0	9.2
21303.500000	45.94	---	74.00	28.06	248.0	H	244.0	9.2
23137.500000	---	41.49	54.00	12.51	144.0	H	173.0	9.4
23476.500000	45.40	---	74.00	28.60	252.0	H	61.0	9.4
24962.500000	47.07	---	74.00	26.93	190.0	H	275.0	9.4
24973.500000	---	43.05	54.00	10.95	267.0	H	145.0	9.4

18-25GHz Radiated Emission

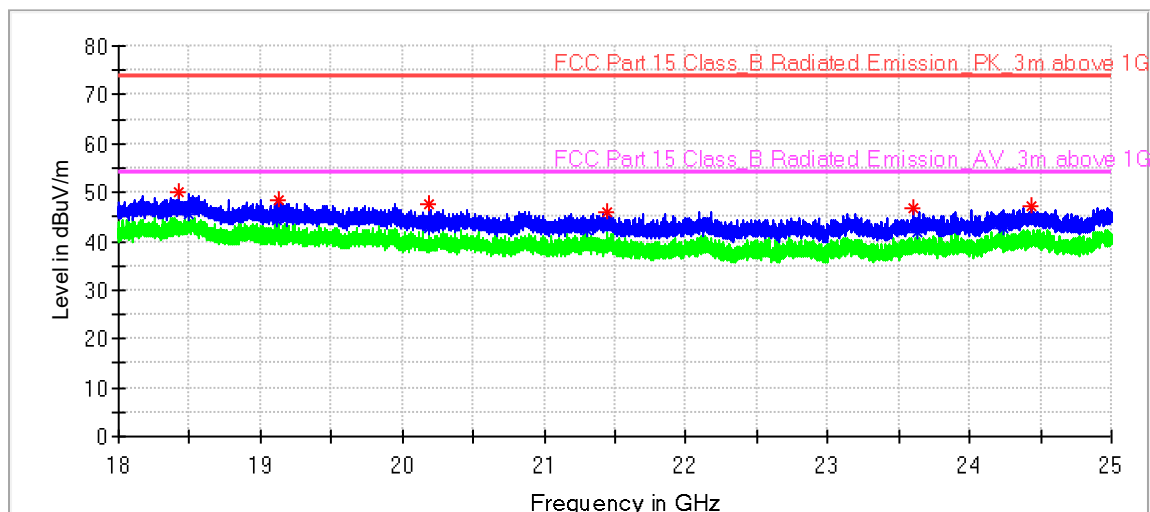
EUT Information

EUT Name: Wi-Fi and Bluetooth Module
 Model: T7-M
 Client: Hangzhou Tuya Information Technology Co.,Ltd
 Op Cond: TX_2412MHz at 802.11G
 Operator: Chengjie GUO
 Standard: FCC Part15.209
 Sample No.: SHA-1064638-1

Sweep Setup: RE_3116C_pre [EMI radiated]

Hardware Setup: RE_3116C
 Receiver: [FSV 40]
 Level Unit: dBuV/m

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamplifier
18 GHz - 25 GHz	500 kHz	PK+ ; AVG	1 MHz	0.05 s	0 dB



Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18422.000000	50.19	---	74.00	23.81	326.0	V	118.0	8.6
18495.500000	---	45.53	54.00	8.47	199.0	V	52.0	8.7
19114.000000	---	44.16	54.00	9.84	111.0	V	2.0	8.3
19123.000000	48.26	---	74.00	25.74	208.0	V	18.0	8.3
20181.500000	47.40	---	74.00	26.60	203.0	V	152.0	8.7
20181.500000	---	42.63	54.00	11.37	342.0	V	152.0	8.7
21306.500000	---	42.19	54.00	11.81	173.0	V	208.0	9.2
21447.500000	45.92	---	74.00	28.08	247.0	V	261.0	9.2
23599.000000	46.71	---	74.00	27.29	257.0	V	344.0	9.5
23624.000000	---	41.66	54.00	12.34	361.0	V	215.0	9.5
24236.000000	---	42.48	54.00	11.52	315.0	V	329.0	9.9
24432.500000	46.99	---	74.00	27.01	326.0	V	170.0	9.7

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)
 Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

11 Test Equipment List

List of Test Instruments
Test Site1

	Description	Manufacturer	Model no.	Serial no.	CAL. DATE	CAL. DUE DATE
C	Signal spectrum analyzer	Agilent	N9020B	MY59050168	2026-2-24	2027-2-23
	RF automatic control unit	MWRFTtest	MW100-RFCB	MW211122-28	2025-10-9	2026-10-8
	RF_Cable	UCWAVE ELECTRONIC	UCA500-NJWSM-1.5M	---	2026-8-3	2027-8-2
	Wideband power sensor	Rohde & Schwarz	NRP-Z81	105903	2026-2-24	2027-2-23
	10dB Attenuator	Aeroflex Weinschel	CG-4689	93459	2026-2-24	2027-2-23
RE	EMI Test Receiver	Rohde & Schwarz	ESR3	101906	2026-8-3	2027-8-2
	Signal Analyzer	Rohde & Schwarz	FSV40	101091	2026-8-3	2027-8-2
	Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9168	961	2026-6-25	2027-6-24
	Double-ridged waveguide horn antenna	Rohde & Schwarz	HF907	102393	2026-4-14	2027-4-13
	Pre-amplifier	Shenzhen HzEMC	HPA-081843	HYPA23026	2026-4-14	2027-4-13
	Loop antenna	Rohde & Schwarz	HFH2-Z2	100443	2026-6-25	2027-6-24
	Double Ridged Horn Antenna	ETS-Lindgren	3116C	000222727	2026-6-25	2027-6-24
	RE_Cable_01 Coaxial Cable	JUNFLON	MWX221	1906S057	2026-8-3	2027-8-2
	RE_Cable_02 Coaxial Cable	HUBER+SUHNER	RG214	1358176	2026-8-3	2027-8-2
	RE_Cable_03 Coaxial Cable	JUNFLON	MWX221	J12J102482	2026-8-3	2027-8-2
	RE_Cable_04 Coaxial Cable	PASTERNAK	PE360	2233	2026-8-3	2027-8-2
	3m Semi-anechoic chamber	TDK	9X6X6	----	2024-5-8	2027-5-7
	Band reject filter	Wainwright	WRCGV10-2382-2402-2480-2500-52SS	38	2026-8-3	2027-8-2
	10dB Attenuator	Aeroflex Weinschel	CG-4689	93459	2026-2-24	2027-2-23
CE	EMI Test Receiver	Rohde & Schwarz	ESR3	101907	2026-8-3	2027-8-2
	LISN	Rohde & Schwarz	ENV216	101924	2026-8-3	2027-8-2
	CE_Cable_01 Coaxial Cable	HUBER+SUHNER	RG400	1002115055	2026-8-3	2027-8-2

Measurement Software Information

Test Item	Software	Manufacturer	Version
C	MTS 8310	MWRFTtest	3.0.0.0
	Power Viewer	Rohde & Schwarz	V 11.0
RE	EMC 32	Rohde & Schwarz	V10.50.40
CE	EMC 32	Rohde & Schwarz	V9.15.03



C - Conducted RF tests

- Conducted peak output power
- 6dB bandwidth and 99% Occupied Bandwidth
- Power spectral density
- Spurious RF conducted emissions
- Band edge

12 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

Items	Extended Uncertainty
Conducted Disturbance at Mains Terminals	150kHz to 30MHz, LISN, 3.16dB
Radiated Disturbance	9kHz to 30MHz, 3.52dB 30MHz to 1GHz, 5.03dB (Horizontal) 5.12dB (Vertical) 1GHz to 18GHz, 5.49dB 18GHz to 40GHz, 5.63dB
RF Conducted Measurement	Power related: 1.16dB Frequency related: 6.00×10^{-8}

Measurement Uncertainty Decision Rule:

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2023, clause 4.3.3.



13 Photographs of Test Set-ups

Refer to the < Test Setup photos >.



14 Photographs of EUT

Refer to the < External Photos > & < Internal Photos >.

-----End of Test Report-----