Test Report

FCC Part15 Subpart C & RSS-247 Issue 2

Product Name	:	Mobile Computer
Model No.	:	MEMOR K
FCC ID	:	U4GMEMKUS
IC	:	3862E-MEMKUS

Applicant	:	Datalogic S.r.l.
Address	:	Via San Vitalino no.13,Calderara di Reno -40012(BO)-Itlay

Date of Receipt	:	Apr. 15, 2020
Test Date	:	Apr. 16, 2020 ~ Jul. 14, 2020
Issued Date	:	Jul. 14, 2020
Report No.	:	2040625R-RF-US-P06V03
Report Version	:	V1.1

Test Report Certification

Issued Date: Jul. 14, 2020
Report No. : 2040625R-RF-US-P06V03

Product Name	:	Mobile Computer
Applicant	:	Datalogic S.r.l.
Address	:	Via San Vitalino no.13,Calderara di Reno -40012(BO)-Itlay
Manufacturer	:	Datalogic S.r.l.
Address	:	Via San Vitalino no.13,Calderara di Reno -40012(BO)-Itlay
Model No.	:	MEMOR K
Trademark	:	Datalogic
FCC ID	:	U4GMEMKUS
IC	:	3862E-MEMKUS
EUT Voltage	:	3.8 Vdc
Applicable Standard	:	FCC CFR Title 47 Part 15 Subpart C ANSI C63.10:2013; KDB 558074 D01v05r02 RSS-Gen Issue 5 / RSS-247 Issue 2
Test Result	:	Complied
Performed Location	:	DEKRA Testing and Certification (Suzhou) Co., Ltd. No.99 Hongye Rd., Suzhou Industrial Park, Suzhou, 215006, Jiangsu, China TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098 FCC Designation Number: CN1199 ISED CAB identifier: CN0040

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Approved By : Jack Zhang

(Supervisor: Jack Zhang)

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History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
2040625R-RF-US-P06V03	V1.0	Initial Issued Report	Jun. 05, 2020
2040625R-RF-US-P06V03	V1.1	P67~122, modified the band edge test data.	Jul. 14, 2020

1. General Information

1.1. EUT Description

Product Name	Mobile Computer
Model No.	MEMOR K
Software version	0.01.02.20200513
Hardware version	V00(US)
EUT Voltage	3.8 Vdc
Frequency Range	802.11b/g/n(20MHz): 2412~2462MHz 802.11n(40MHz): 2422~2452MHz
Channel Number	802.11b/g/n(20MHz): 11 802.11n(40MHz): 7
Type of Modulation	802.11b: DSSS-DBPSK, DQPSK, CCK
	802.11g/n: OFDM-BPSK, QPSK, 16QAM, 64QAM
Data Rate	802.11b: 1/2/5.5/11 Mbps
	802.11g: 6/9/12/18/24/36/48/54 Mbps
	802.11n: up to 150 Mbps
Channel Control	Auto

1.2. Working Frequency of Each Channel:

802.11b/g/n(20MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz	04	2427 MHz
05	2432 MHz	06	2437 MHz	07	2442 MHz	08	2447 MHz
09	2452 MHz	10	2457 MHz	11	2462 MHz	N/A	N/A

802.11n(40MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
03	2422 MHz	04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 MHz	N/A	N/A

1.3. Antenna information

Antenna model	N/A					
Antenna Delivery	☒	1*TX+1*RX	☐	2*TX+2*RX	☐	3*TX+3*RX
Antenna technology	☒	SISO				
	☐	MIMO	☐	Basic		
			☐	CDD		
			☐	Beam-forming		
Antenna Type	☐	External	☐	Dipole		
	☒	Internal	☒	PIFA		
			☐	PCB		
			☐	Ceramic Chip Antenna		
			☐	Stamping Antenna		
			☐	Metal antenna		
			☐	Monopole antenna		
Antenna Gain	0.84 dBi					

1.4. Mode of Operation

Test Modes List
Mode 1: Transmit by 802.11b
Mode 2: Transmit by 802.11g
Mode 3: Transmit by 802.11n(20MHz)
Mode 4: Transmit by 802.11n(40MHz)

Note 1: Regards to the frequency band operation: the lowest, middle and highest frequency channel were selected to perform the test, then shown on this report.

Note 2: For portable device, radiated tests was verified over X, Y, Z axis, and shown the worst case on this report.

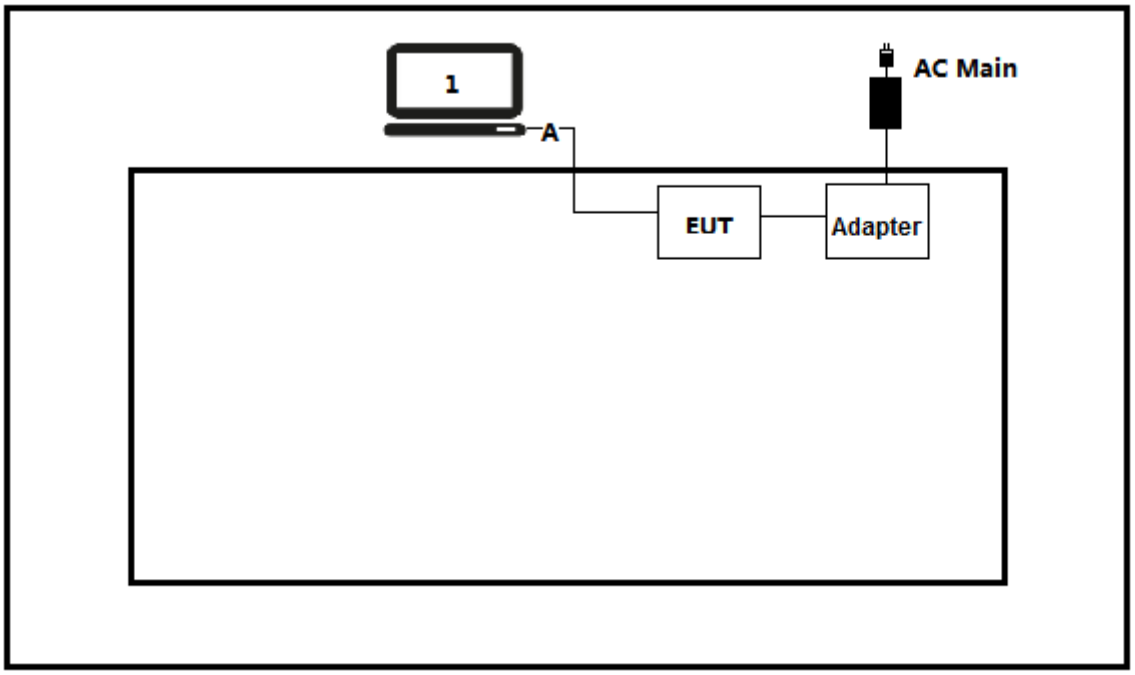
1.5. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

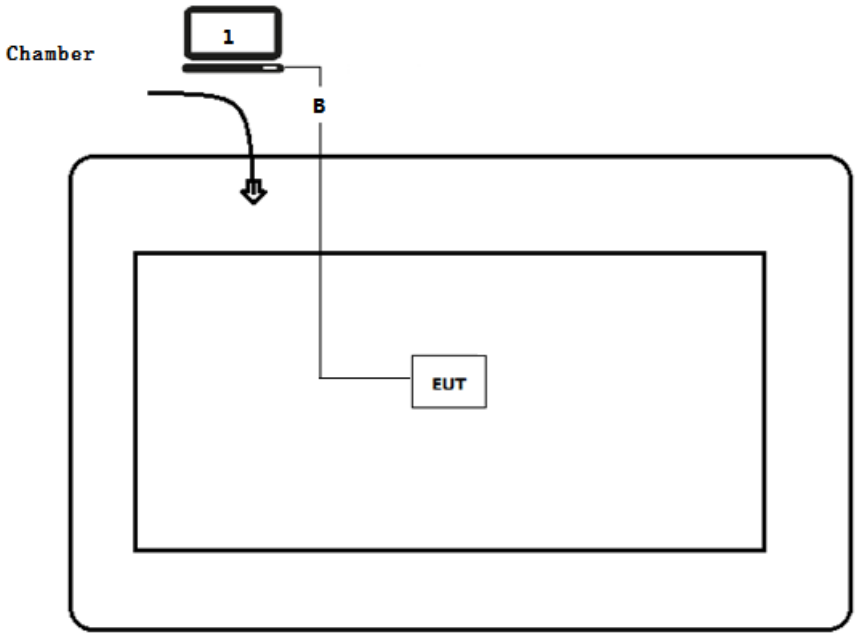
No.	Product	Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook	Lenovo	Think pad x220	SUA0600195	Non-shielded
A	USB cable	N/A	N/A	N/A	Shielded, 0.5m
B	USB cable	N/A	N/A	N/A	Shielded, 10m

1.6. Configuration of Tested System

Test setup Diagram- AC Line Conducted Emission Test



Test setup Diagram- Radiated Emission



1.7. EUT Exercise Software

1	Setup the EUT as shown in Section 1.6.
2	Turn on the power of all equipment.
3	Run RF software [SP META Tool], and set the test mode and channel, then press OK to start to continue transmit.
4	Verify that the EUT works properly.

2. Technical Test

2.1. Summary of Test Result

For FCC rule:

Performed Test Item	Normative References	Limit	Result
AC Power Line Conducted Emission	FCC CFR Title 47 Part 15 Subpart C: Section 15.207	FCC 15.207	PASS
Emissions in restricted frequency bands	FCC CFR Title 47 Part 15 Subpart C: Section 15.209	FCC 15.209	PASS
Emissions in non-restricted frequency bands	FCC CFR Title 47 Part 15 Subpart C: Section 15.247(d)	≥30dBc	PASS
Radiated Emission Band Edge	FCC CFR Title 47 Part 15 Subpart C: 15.247(d)	FCC 15.209	PASS
Occupied Bandwidth	FCC CFR Title 47 Part 15 Subpart C: Section 15.247(a)(2)	≥500kHz	PASS
Fundamental emission output power	FCC CFR Title 47 Part 15 Subpart C: Section 15.247(b)(3)	≤30dBm	PASS
Power Spectral Density	FCC CFR Title 47 Part 15 Subpart C: Section 15.247(e)	≤8dBm/3kHz	PASS
Antenna Requirement	FCC CFR Title 47 Part 15 Subpart C: Section 15.203	FCC 15.203	PASS

For ISED rule:

Performed Test Item	Normative References	Limit	Result
AC Power Line Conducted Emission	RSS-Gen Issue 5 Section 8.8	RSS-Gen	N/A
Emissions in restricted frequency bands	RSS-Gen Issue 5 Section 8.9	RSS-Gen	PASS
Emissions in non-restricted frequency bands	RSS-247 Issue 2 Section A5.5	≥30dBc	PASS
Radiated Emission Band Edge	RSS-247 Issue 2 Section A5.5	RSS-247	PASS
Occupied Bandwidth	RSS-Gen Issue 5 Section 6.6 RSS-247 Issue 2 Section A5.2(1)	≥500kHz	PASS
Fundamental emission output power	RSS-247 Issue 2 Section A5.4(4)	≤30dBm	PASS
Power Spectral Density	RSS-247 Issue 2 Section A5.2(2)	≤8dBm/3kHz	PASS
Antenna Requirement	RSS-Gen Issue 5 Section 8.3	RSS-Gen Issue 5	PASS

2.2. Test Frequency configuration:

Modulation Mode	Channel	Frequency	Channel	Frequency	Channel	Frequency
802.11b	01	2412 MHz	06	2437 MHz	11	2462 MHz
802.11g	01	2412 MHz	06	2437 MHz	11	2462 MHz
802.11n(20MHz)	01	2412 MHz	06	2437 MHz	11	2462 MHz
802.11n(40MHz)	03	2422 MHz	06	2437 MHz	09	2452 MHz

2.3. Power vs Data Rate

MCS Index for 802.11n	Spatial Streams	Data Rate (Mbps)					
		802.11b	802.11g	20MHz Bandwidth		40MHz Bandwidth	
				800ns GI	400ns GI	800ns GI	400ns GI
0	1	1	6	6.5	7.2	13.5	15
1	1	2	9	13.0	14.4	27.0	30
2	1	5.5	12	19.5	21.7	40.5	45
3	1	11	18	26.0	28.9	54.0	60
4	1	---	24	39.0	43.3	81.0	90
5	1	---	36	52.0	57.8	108.0	120
6	1	---	48	58.5	65.0	121.5	135
7	1	---	54	65.0	72.2	135	150

Note 1: The EUT supports all data rate above. The blue form is the maximum power data rate.

2.4. Test Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	21
Humidity (%RH)	25-75	50
Barometric pressure (mbar)	860-1060	950-1000

2.5. Measurement Uncertainty

Test Items	Uncertainty
AC Power Line Conducted Emission	±2.02 dB
Radiated Emission	Below 1GHz ±3.8 dB
	Above 1GHz ±3.9 dB
RF Antenna Port Conducted Emission	±1.27 dB
Radiated Emission Band Edge	±3.9 dB
Occupied Bandwidth	±1 kHz
Power Spectral Density	±1.27 dB

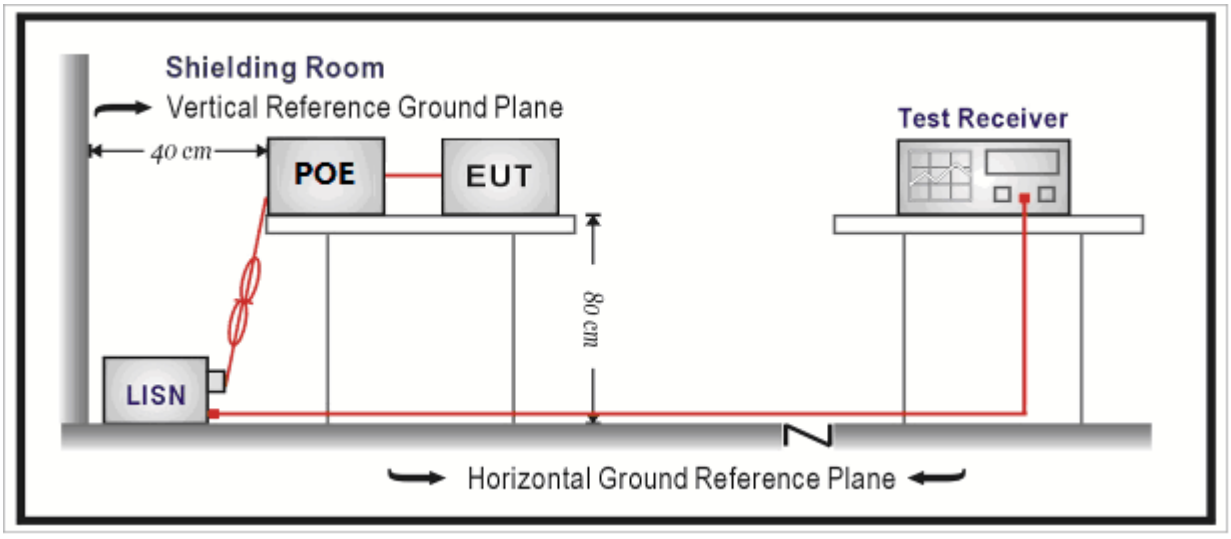
3. AC Power Line Conducted Emission

3.1. Test Equipment

AC Power Line Conducted Emission / TR-1					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100906	2020.04.18	2021.04.17
Two-Line V-Network	R&S	ENV 216	101189	2019.10.16	2020.10.15
Two-Line V-Network	R&S	ENV 216	101044	2020.04.18	2021.04.17
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	N/A	N/A
50ohm Termination	SHX	TF2	7081402	2019.09.02	2020.09.01
Temperature/Humidity Meter	RTS	RTS-8S	TR1-TH	2019.08.21	2020.08.20
Quietek EMI V3(test software)	Quietek	N/A	N/A	N/A	N/A
Note: All equipment is calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

3.2. Test Setup

AC Power Line Conducted Emission test setup



3.3. Limit

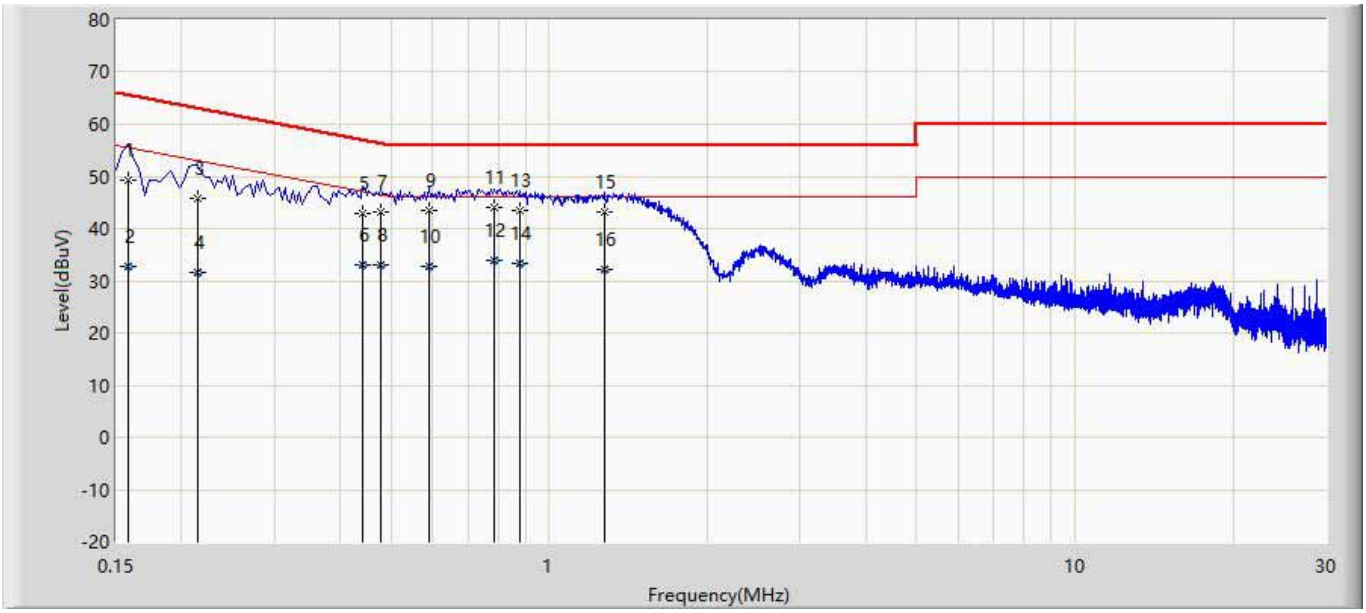
Frequency of Emission (MHz)	Conducted Limit	
	Quasi-peak (dB μ V)	Average(dB μ V)
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50
Note 1: The lower limit shall apply at the transition frequencies. Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.		

3.4. Test Procedure

Test Method			
	References Rule	Chapter	Item
☒	ANSI C63.10-2013	6.2	Standard test method for ac power-line conducted emissions from unlicensed wireless devices

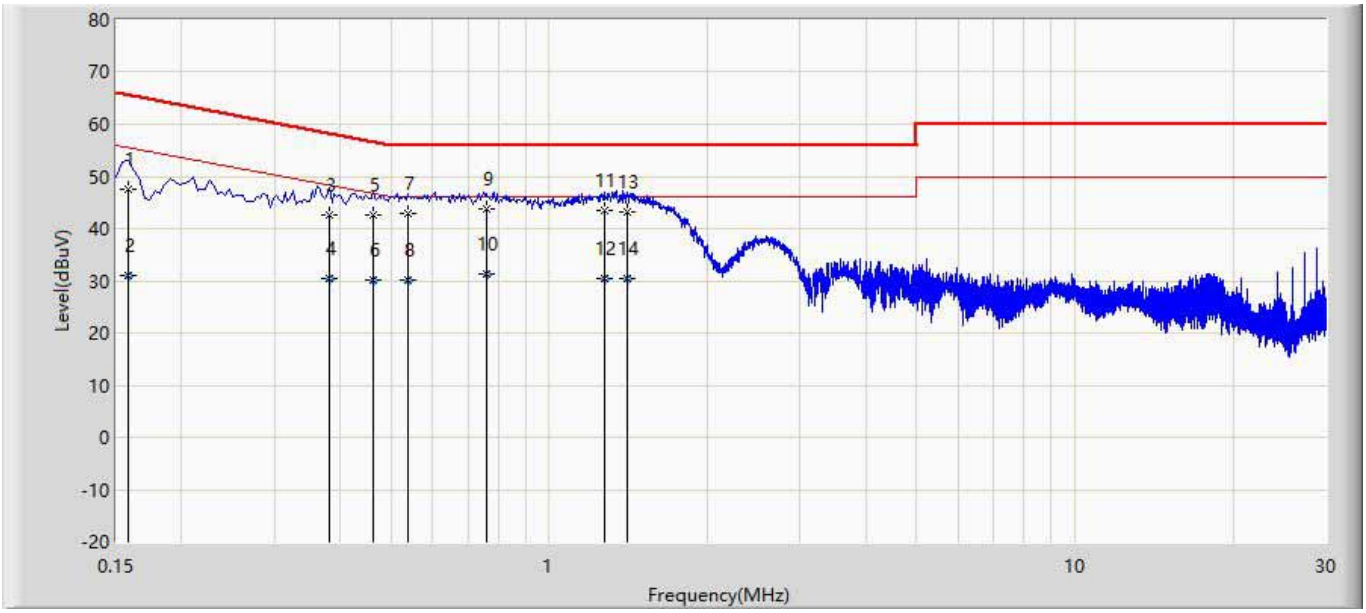
3.5. Test Result

Site: TR1	Time: 2020/04/16 - 09:25
Limit: FCC_Part15.207_CE_AC Power	Margin: 0
Probe: ENV216_101190(0.009-30MHz)	Polarity: Line
EUT: Mobile Computer	Power: AC 120V/60Hz
Note: Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.158	49.198	39.561	-16.370	65.568	9.608	0.029	0.000	QP
2		0.158	32.894	23.257	-22.674	55.568	9.608	0.029	0.000	AV
3		0.214	45.657	36.027	-17.392	63.049	9.600	0.029	0.000	QP
4		0.214	31.589	21.960	-21.459	53.049	9.600	0.029	0.000	AV
5		0.442	42.806	33.166	-14.218	57.024	9.600	0.041	0.000	QP
6		0.442	32.932	23.291	-14.092	47.024	9.600	0.041	0.000	AV
7		0.478	43.324	33.683	-13.050	56.374	9.600	0.041	0.000	QP
8		0.478	33.040	23.399	-13.334	46.374	9.600	0.041	0.000	AV
9		0.590	43.431	33.785	-12.569	56.000	9.600	0.046	0.000	QP
10		0.590	32.789	23.143	-13.211	46.000	9.600	0.046	0.000	AV
11	*	0.786	44.077	34.422	-11.923	56.000	9.603	0.052	0.000	QP
12		0.786	33.834	24.178	-12.166	46.000	9.603	0.052	0.000	AV
13		0.882	43.486	33.825	-12.514	56.000	9.606	0.055	0.000	QP
14		0.882	33.210	23.549	-12.790	46.000	9.606	0.055	0.000	AV
15		1.274	43.177	33.500	-12.823	56.000	9.610	0.067	0.000	QP
16		1.274	32.148	22.470	-13.852	46.000	9.610	0.067	0.000	AV

Site: TR1	Time: 2020/04/16 - 09:30
Limit: FCC_Part15.207_CE_AC Power	Margin: 0
Probe: ENV216_101190(0.009-30MHz)	Polarity: Neutral
EUT: Mobile Computer	Power: AC 120V/60Hz
Note: Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.158	47.484	37.863	-18.084	65.568	9.592	0.029	0.000	QP
2		0.158	30.961	21.340	-24.607	55.568	9.592	0.029	0.000	AV
3		0.382	42.611	32.980	-15.625	58.236	9.594	0.038	0.000	QP
4		0.382	30.504	20.873	-17.732	48.236	9.594	0.038	0.000	AV
5		0.462	42.663	33.031	-13.994	56.657	9.591	0.041	0.000	QP
6		0.462	30.266	20.634	-16.390	46.657	9.591	0.041	0.000	AV
7		0.538	42.787	33.153	-13.213	56.000	9.590	0.044	0.000	QP
8		0.538	30.215	20.581	-15.785	46.000	9.590	0.044	0.000	AV
9	*	0.762	43.830	34.188	-12.170	56.000	9.590	0.052	0.000	QP
10		0.762	31.404	21.763	-14.596	46.000	9.590	0.052	0.000	AV
11		1.270	43.406	33.744	-12.594	56.000	9.595	0.067	0.000	QP
12		1.270	30.313	20.651	-15.687	46.000	9.595	0.067	0.000	AV
13		1.406	43.329	33.660	-12.671	56.000	9.598	0.070	0.000	QP
14		1.406	30.416	20.747	-15.584	46.000	9.598	0.070	0.000	AV

Note:

1. " * ", means this data is the worst emission level.

2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

4. Emissions in restricted frequency bands

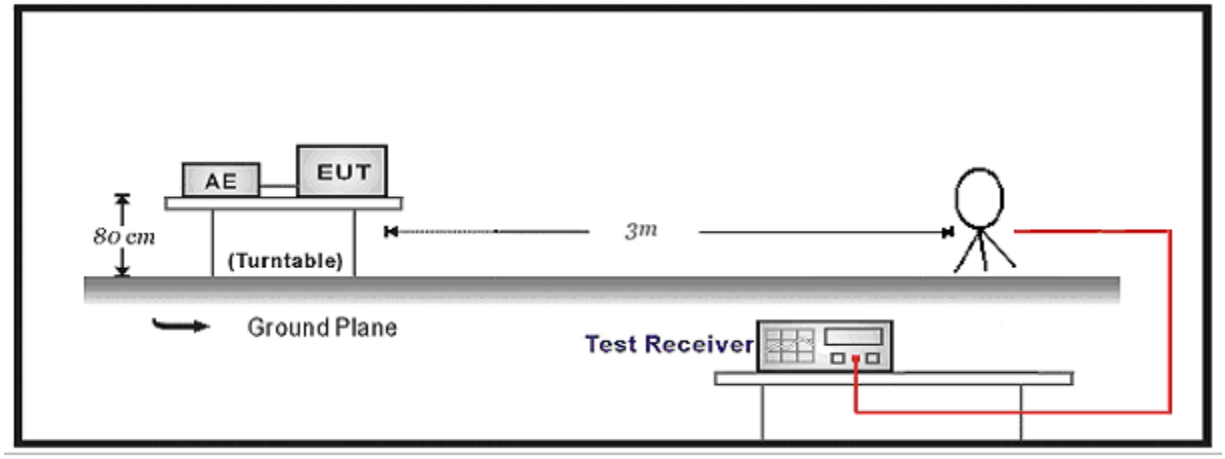
4.1. Test Equipment

Radiated Emission(Below 1GHz) / AC-3					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100176	2019.08.30	2020.08.29
Loop Antenna	R&S	HFH2-Z2	833799/003	2020.02.17	2021.02.16
Bilog Antenna	Teseq GmbH	CBL6112D	27613	2020.05.25	2021.05.24
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC3-C	2020.04.13	2021.04.12
Temperature/Humidity Meter	RTS	RTS-8S	AC3-TH	2019.09.02	2020.09.01
Quietek EMI V3(test software)	Quietek	N/A	N/A	N/A	N/A
Note: All equipment is calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

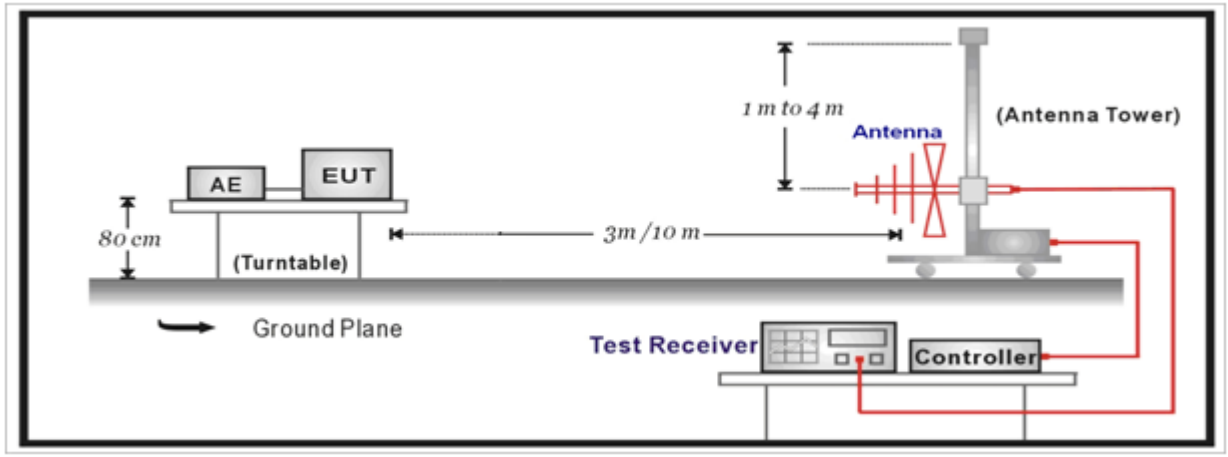
Radiated Emission(Above 1GHz) / AC-5					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	R&S	FSV	104212	2019.12.28	2020.12.27
Signal analyzer	Agilent	E4446A	MY45300103	2020.05.08	2021.05.07
low Noise Amplifier	BXT	NA2651D	LNA17040209	2020.04.13	2021.04.12
Pre-Amplifier	EMCI	EMC184045SE	980263	2020.05.24	2021.05.23
DRG Horn Antenna	ETS-Lindgren	3117	00167055	2020.05.25	2021.05.24
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2019.03.23	2021.03.22
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2020.04.13	2021.04.12
Coaxial Cable	ROSENBERGER	LA1-C011-2000/3000	AC5-40G	2020.04.18	2021.04.17
Temperature/Humidity Meter	RTS	RTS-8S	AC5-TH	2019.09.02	2020.09.01
Quietek EMI V3(test software)	Quietek	N/A	N/A	N/A	N/A
Note: All equipment is calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

4.2. Test Setup

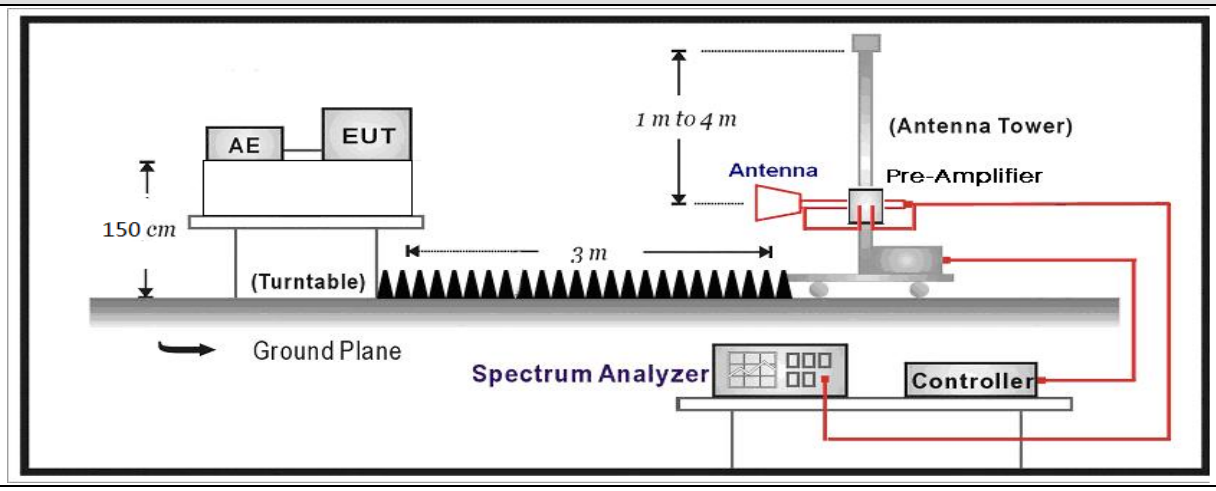
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limit

For FCC

Restricted Bands of operation			
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
0.495 – 0.505	16.69475 –16.69525	608 – 614	5.35 – 5.46
2.1735 – 2.1905	16.80425 – 16.80475	960 – 1240	7.25 – 7.75
4.125 – 4.128	25.5 – 25.67	1300 – 1427	8.025 – 8.5
4.17725 – 4.17775	37.5 – 38.25	1435 – 1626.5	9.0 – 9.2
4.20725 – 4.20775	73 – 74.6	1645.5 – 1646.5	9.3 – 9.5
6.215 – 6.218	74.8 – 75.2	1660 – 1710	10.6 – 12.7
6.26775 – 6.26825	108 – 121.94	1718.8 – 1722.2	13.25 – 13.4
6.31175 – 6.31225	123 – 138	2200 – 2300	14.47 – 14.5
8.291 – 8.294	149.9 – 150.05	2310 – 2390	15.35 – 16.2
8.362 – 8.366	156.52475 – 156.52525	2483.5 – 2500	17.7 – 21.4
8.37625 – 8.38675	156.7 – 156.9	2690 – 2900	22.01 – 23.12
8.81425 – 8.81475	162.0125 – 167.17	3260 – 3267	23.6 – 24.0
12.29 – 12.293	167.72 – 173.2	3332 – 3339	31.2 – 31.8
12.51975–12.52025	240 – 285	3345.8 – 3358	36.43 – 36.5
12.57675–12.57725	322 – 335.4	3600 – 4400	
13.36 – 13.41			

For ISED:

MHz
0.090 - 0.110
0.495 - 0.505
2.1735 - 2.1905
3.020 - 3.026
4.125 - 4.128
4.17725 - 4.17775
4.20725 - 4.20775
5.677 - 5.683
6.215 - 6.218
6.26775 - 6.26825
6.31175 - 6.31225
8.291 - 8.294
8.362 - 8.366
8.37625 - 8.38675
8.41425 - 8.41475
12.29 - 12.293
12.51975 - 12.52025
12.57675 - 12.57725
13.36 - 13.41
16.42 - 16.423
16.69475 - 16.69525
16.80425 - 16.80475
25.5 - 25.67
37.5 - 38.25
73 - 74.6
74.8 - 75.2
108 - 138

MHz
149.9 - 150.05
156.52475 - 156.52525
156.7 - 156.9
162.0125 - 167.17
167.72 - 173.2
240 - 285
322 - 335.4
399.9 - 410
608 - 614
960 - 1427
1435 - 1626.5
1645.5 - 1646.5
1660 - 1710
1718.8 - 1722.2
2200 - 2300
2310 - 2390
2483.5 - 2500
2655 - 2900
3260 - 3267
3332 - 3339
3345.8 - 3358
3500 - 4400
4500 - 5150
5350 - 5460
7250 - 7750
8025 - 8500
--

GHz
9.0 - 9.2
9.3 - 9.5
10.6 - 12.7
13.25 - 13.4
14.47 - 14.5
15.35 - 16.2
17.7 - 21.4
22.01 - 23.12
23.6 - 24.0
31.2 - 31.8
36.43 - 36.5
Above 38.6

* Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

Restricted Band Emissions Limit			
Frequency (MHz)	Field strength (μ V/m)	Field strength (dB μ V/m)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300(Note 1)
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30(Note 1)
1.705 - 30	30	29.5	30(Note 1)
30 - 88	100	40	3(Note 2)
88 - 216	150	43.5	3(Note 2)
216 - 960	200	46	3(Note 2)
Above 960	500	54	3(Note 2)

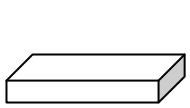
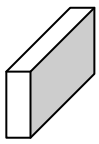
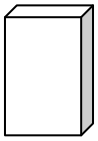
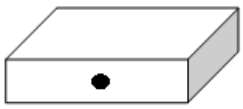
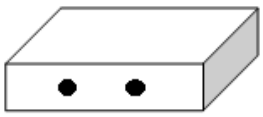
Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

4.4. Test Procedure

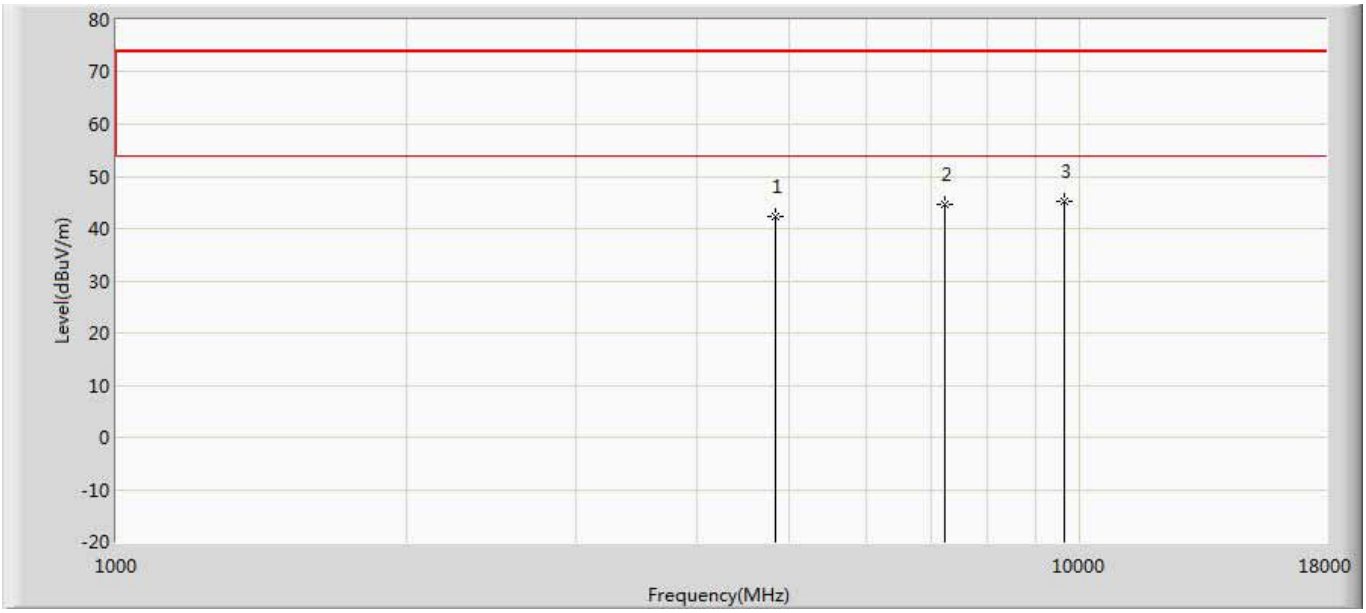
Test Method						
	References Rule				Chapter	Description
☐	ANSI C63.10				11.11	Emissions in non-restricted frequency bands
	☐	ANSI C63.10			11.11.2	Reference level measurement
	☐	ANSI C63.10			11.11.3	Emission level measurement
☒	ANSI C63.10				11.12	Emissions in restricted frequency bands
	☒	ANSI C63.10			11.12.1	Radiated emission measurements
	☒	ANSI C63.10			11.12.2.7	Radiated spurious emission test
		☒	ANSI C63.10		6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
		☒	ANSI C63.10		6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
		☒	ANSI C63.10		6.6	Radiated emissions from unlicensed wireless devices above 1 GHz
	☐	ANSI C63.10			11.12.2	Antenna-port conducted measurements
		☐	ANSI C63.10		11.12.2.3	Quasi-peak measurement procedure
		☐	ANSI C63.10		11.12.2.4	Peak power measurement procedure
		☐	ANSI C63.10		11.12.2.5	Average power measurement procedures
			☐	ANSI C63.10	11.12.2.5.1	Trace averaging with continuous EUT transmission at full power
			☐	ANSI C63.10	11.12.2.5.2	Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction
			☐	ANSI C63.10	11.12.2.5.3	Reduced VBW averaging across ON and OFF times of the EUT transmissions with max hold

4.5. EUT test Axis definition

<table>
<tr><th>Item</th><th colspan="4">Emissions in restricted frequency bands</th></tr>
<tr><td rowspan="3">Device Category</td><td>☐</td><td colspan="3">Fixed point-to-point</td></tr>
<tr><td>☐</td><td colspan="3">Emit multiple directional beams, simultaneously or sequentially</td></tr>
<tr><td>☒</td><td colspan="3">Other cases</td></tr>
<tr><td>Test mode</td><td colspan="4">Mode 1~4</td></tr>
<tr><td rowspan="13">Test method</td><td>☒</td><td colspan="3">Radiated</td></tr>
<tr><td rowspan="3"></td><td>X Axis</td><td>Y Axis</td><td>Z Axis</td></tr>
<tr><td>  </td><td>  </td><td>  </td></tr>
<tr><td>Worst Axis ☒</td><td>Worst Axis ☐</td><td>Worst Axis ☐</td></tr>
<tr><td>☐</td><td colspan="3">Conducted</td></tr>
<tr><td>☐</td><td colspan="3">Chain 1</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☐</td><td>Chain 1</td><td colspan="2">Chain 2</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☐</td><td>Chain 1</td><td>Chain 2</td><td>Chain 3</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
</table>

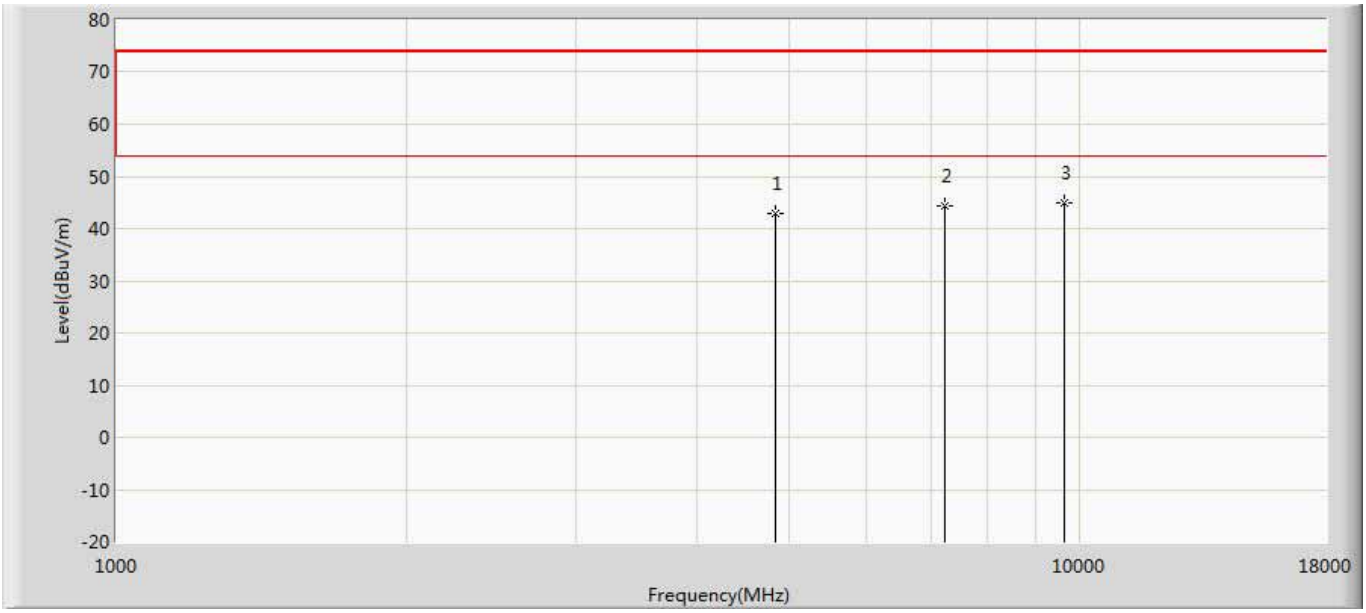
4.6. Test Result

Profile: 2040625R	Page No.: 25
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 15:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 1:Transmit at 2412MHz by 802.11b	



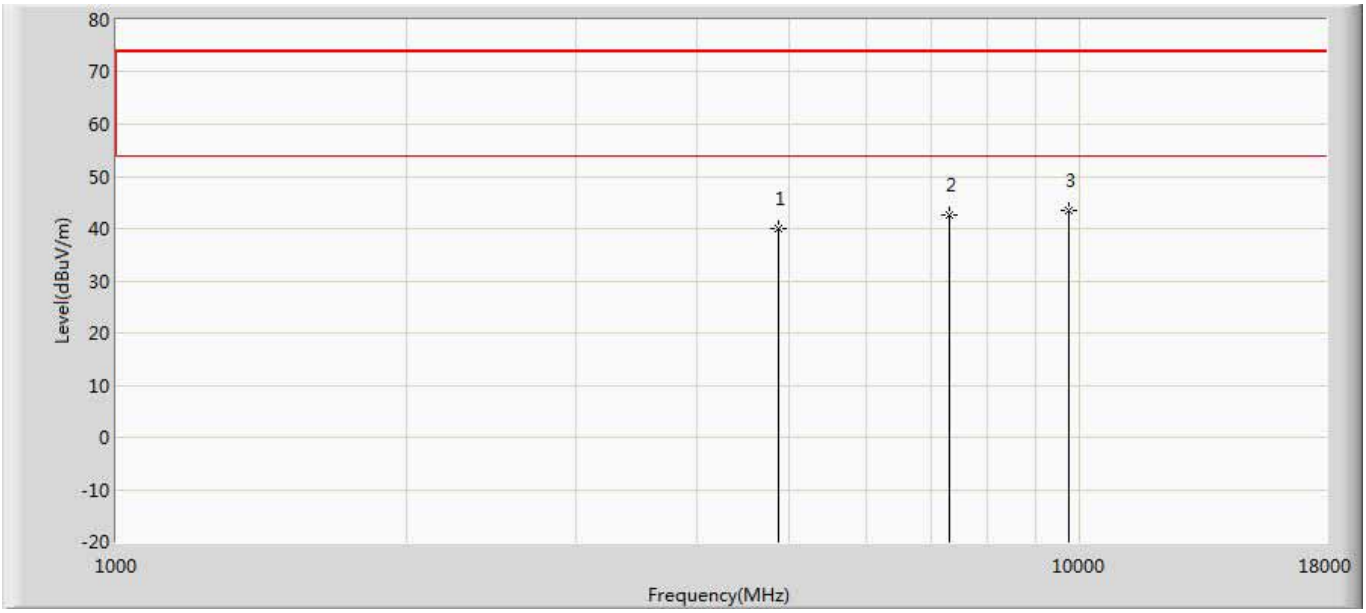
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	42.337	37.774	-31.663	74.000	4.563	PK
2		7236.000	44.514	36.366	-29.486	74.000	8.147	PK
3	*	9648.000	45.241	35.570	-28.759	74.000	9.671	PK

Profile: 2040625R	Page No.: 26
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 15:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 1:Transmit at 2412MHz by 802.11b	



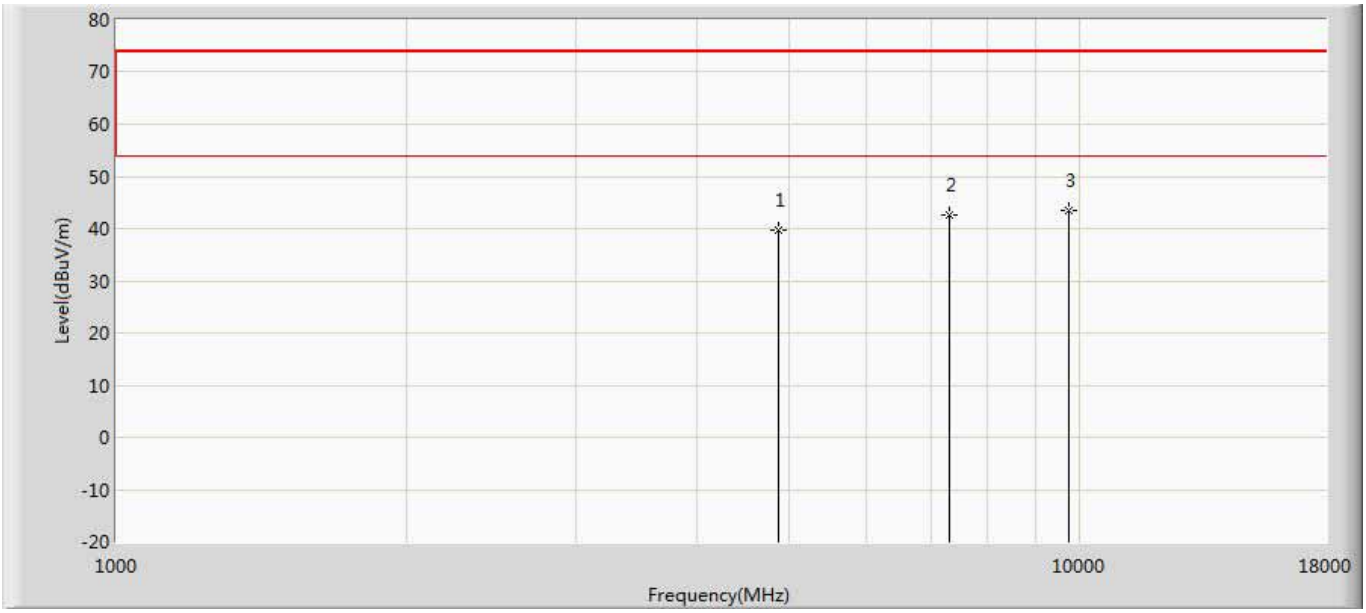
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	42.858	38.295	-31.142	74.000	4.563	PK
2		7236.000	44.278	36.130	-29.722	74.000	8.147	PK
3	*	9648.000	44.822	35.151	-29.178	74.000	9.671	PK

Profile: 2040625R	Page No.: 27
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 15:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 1:Transmit at 2437MHz by 802.11b	



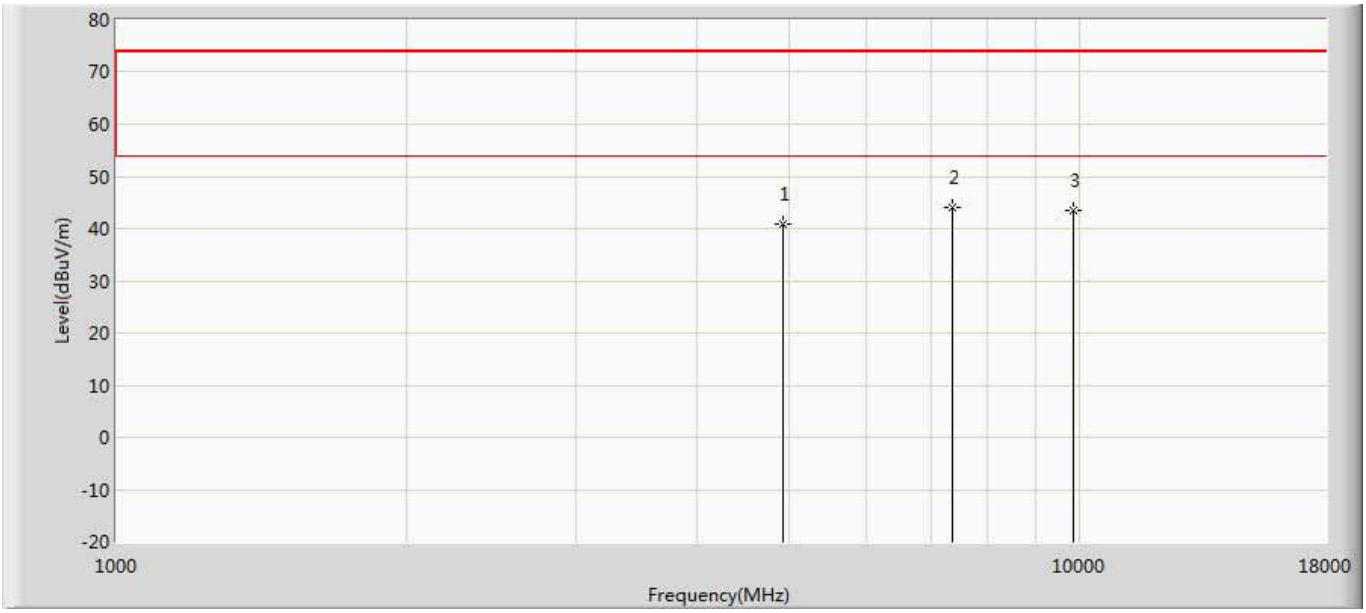
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	40.044	35.197	-33.956	74.000	4.846	PK
2		7311.000	42.614	34.623	-31.386	74.000	7.991	PK
3	*	9748.000	43.437	33.732	-30.563	74.000	9.705	PK

Profile: 2040625R	Page No.: 28
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 15:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 1:Transmit at 2437MHz by 802.11b	



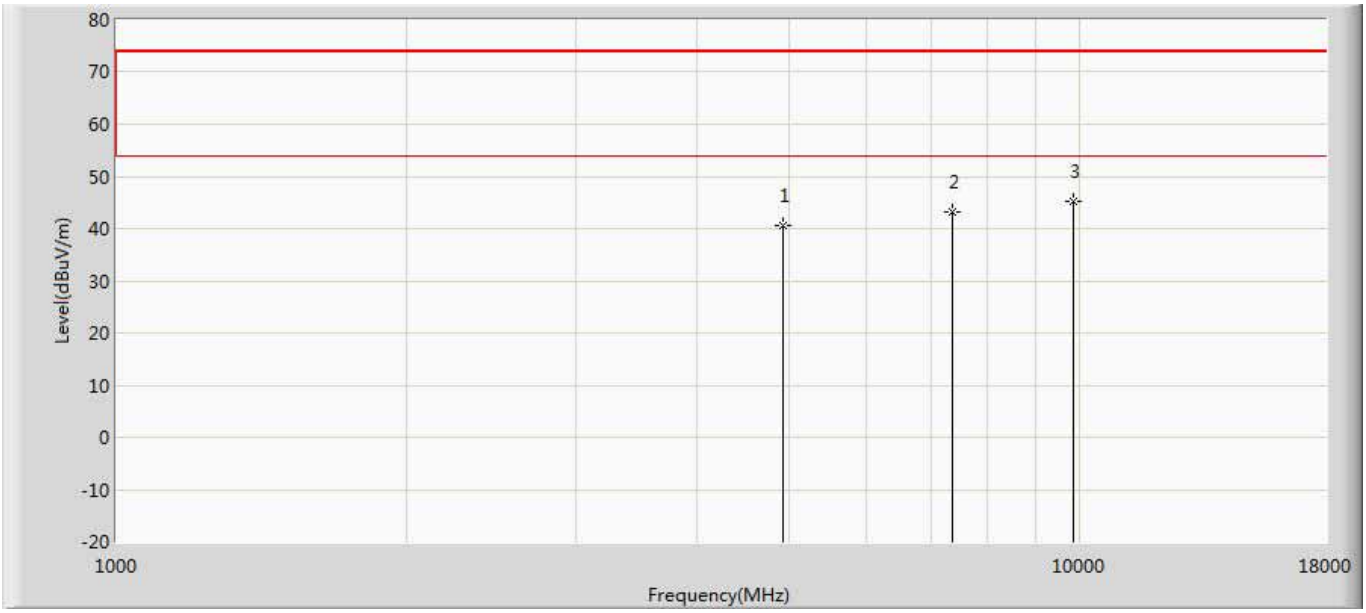
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	39.584	34.737	-34.416	74.000	4.846	PK
2		7311.000	42.582	34.591	-31.418	74.000	7.991	PK
3	*	9748.000	43.502	33.797	-30.498	74.000	9.705	PK

Profile: 2040625R	Page No.: 29
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 15:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 1:Transmit at 2462MHz by 802.11b	



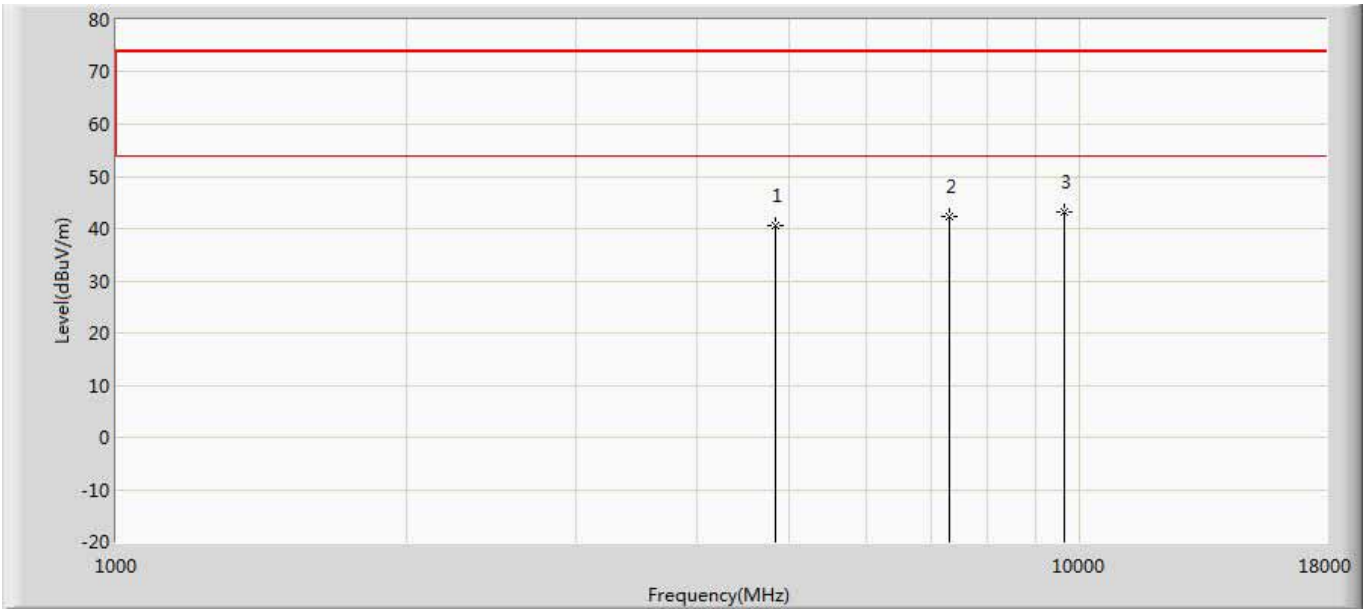
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	40.934	36.292	-33.066	74.000	4.641	PK
2	*	7386.000	44.050	35.900	-29.950	74.000	8.149	PK
3		9848.000	43.587	33.928	-30.413	74.000	9.660	PK

Profile: 2040625R	Page No.: 30
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 15:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 1:Transmit at 2462MHz by 802.11b	



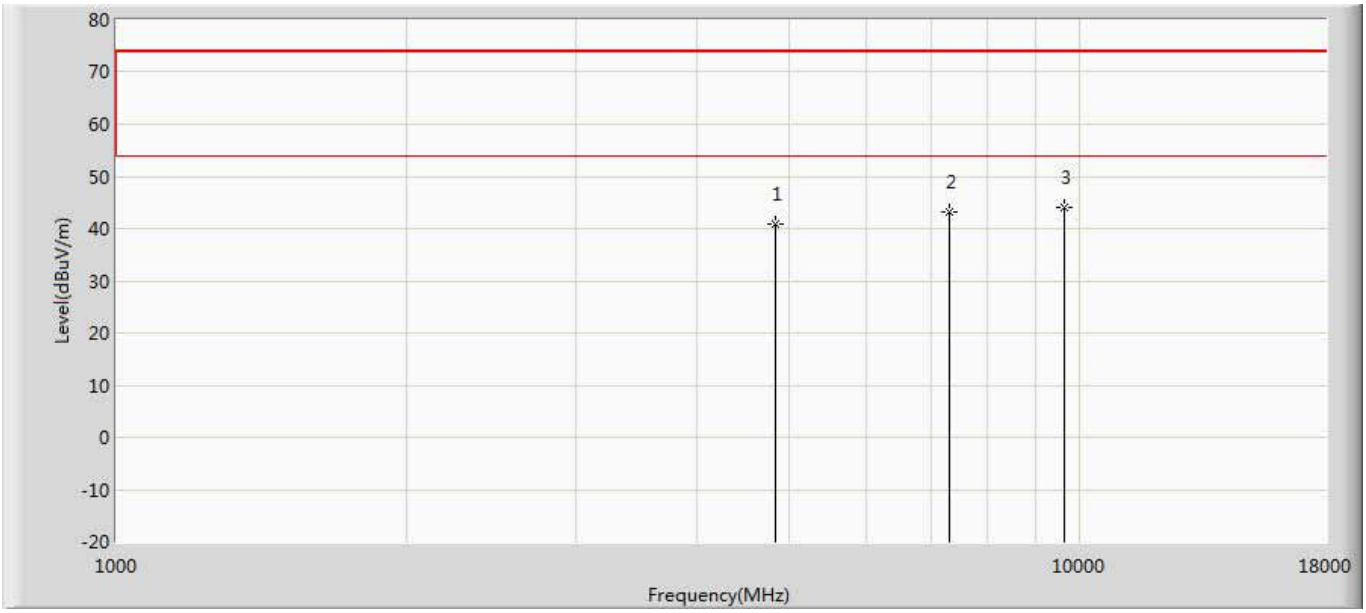
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	40.682	36.040	-33.318	74.000	4.641	PK
2		7386.000	43.182	35.032	-30.818	74.000	8.149	PK
3	*	9848.000	45.344	35.685	-28.656	74.000	9.660	PK

Profile: 2040625R	Page No.: 31
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 15:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 2:Transmit at 2412MHz by 802.11g	



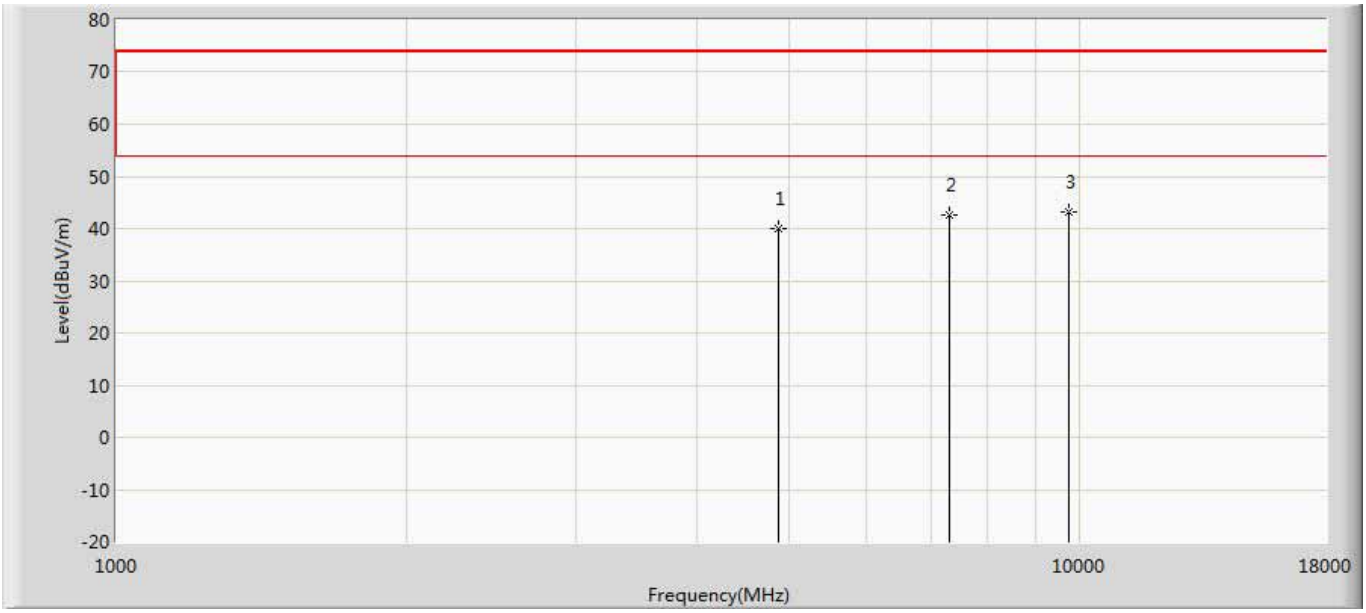
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	40.587	36.024	-33.413	74.000	4.563	PK
2		7326.000	42.318	34.248	-31.682	74.000	8.069	PK
3	*	9648.000	43.058	33.387	-30.942	74.000	9.671	PK

Profile: 2040625R	Page No.: 32
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 15:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 2:Transmit at 2412MHz by 802.11g	



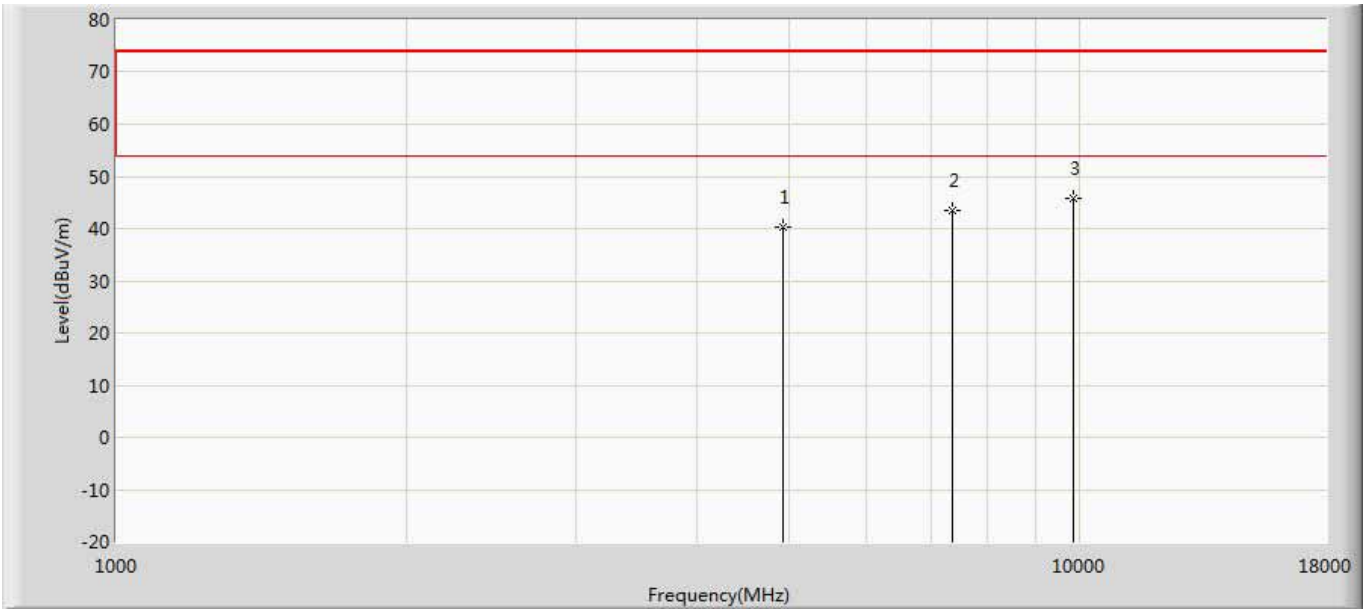
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	40.892	36.329	-33.108	74.000	4.563	PK
2		7326.000	43.159	35.089	-30.841	74.000	8.069	PK
3	*	9648.000	43.920	34.249	-30.080	74.000	9.671	PK

Profile: 2040625R	Page No.: 33
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 15:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 2:Transmit at 2437MHz by 802.11g	



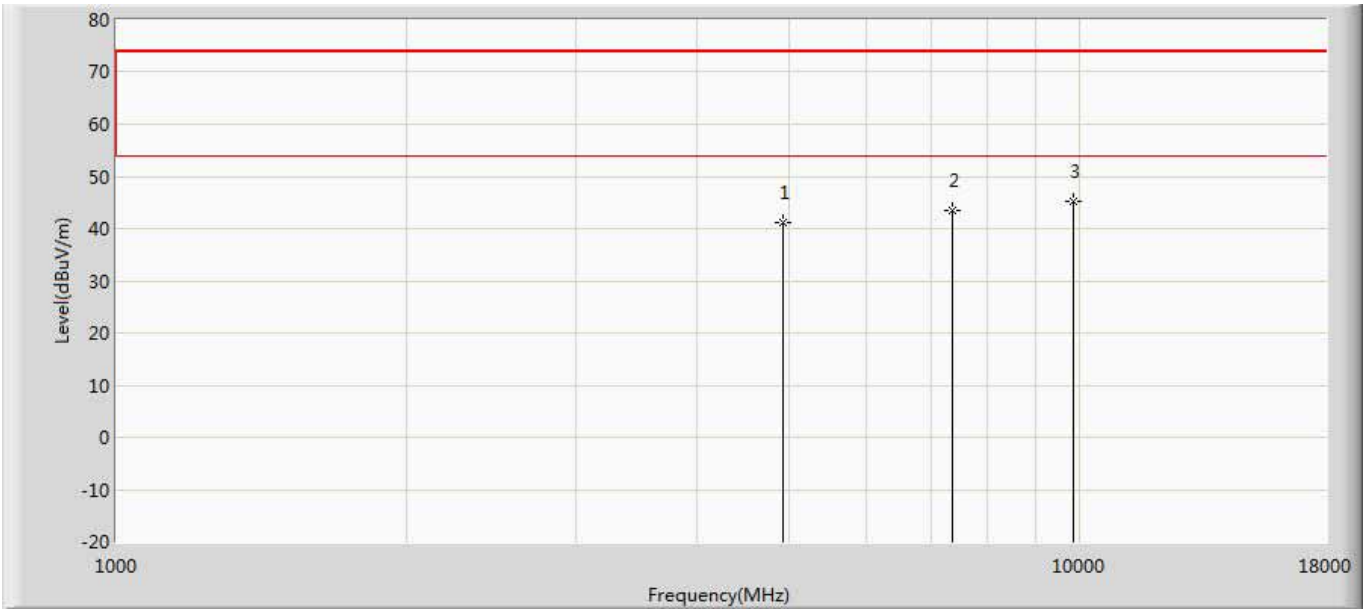
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	40.130	35.283	-33.870	74.000	4.846	PK
2		7311.000	42.482	34.491	-31.518	74.000	7.991	PK
3	*	9748.000	43.118	33.413	-30.882	74.000	9.705	PK

Profile: 2040625R	Page No.: 34
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 15:25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 2:Transmit at 2437MHz by 802.11g	



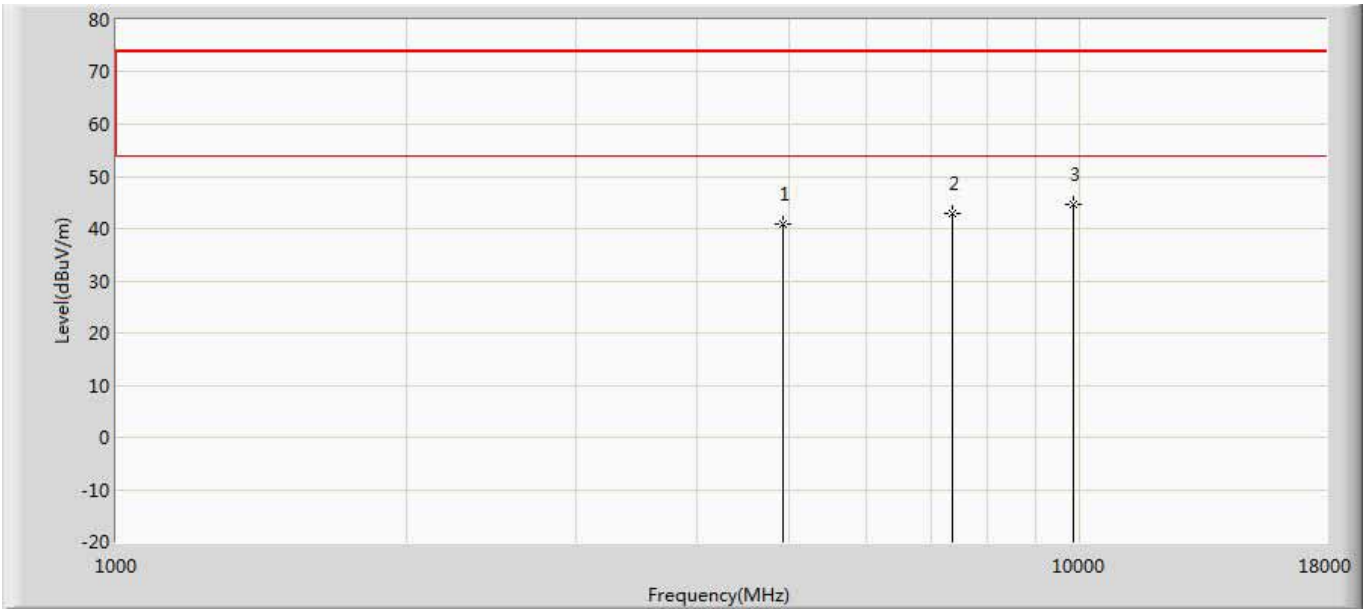
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	40.415	35.773	-33.585	74.000	4.641	PK
2		7386.000	43.380	35.230	-30.620	74.000	8.149	PK
3	*	9848.000	45.718	36.059	-28.282	74.000	9.660	PK

Profile: 2040625R	Page No.: 35
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 15:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 2:Transmit at 2462MHz by 802.11g	



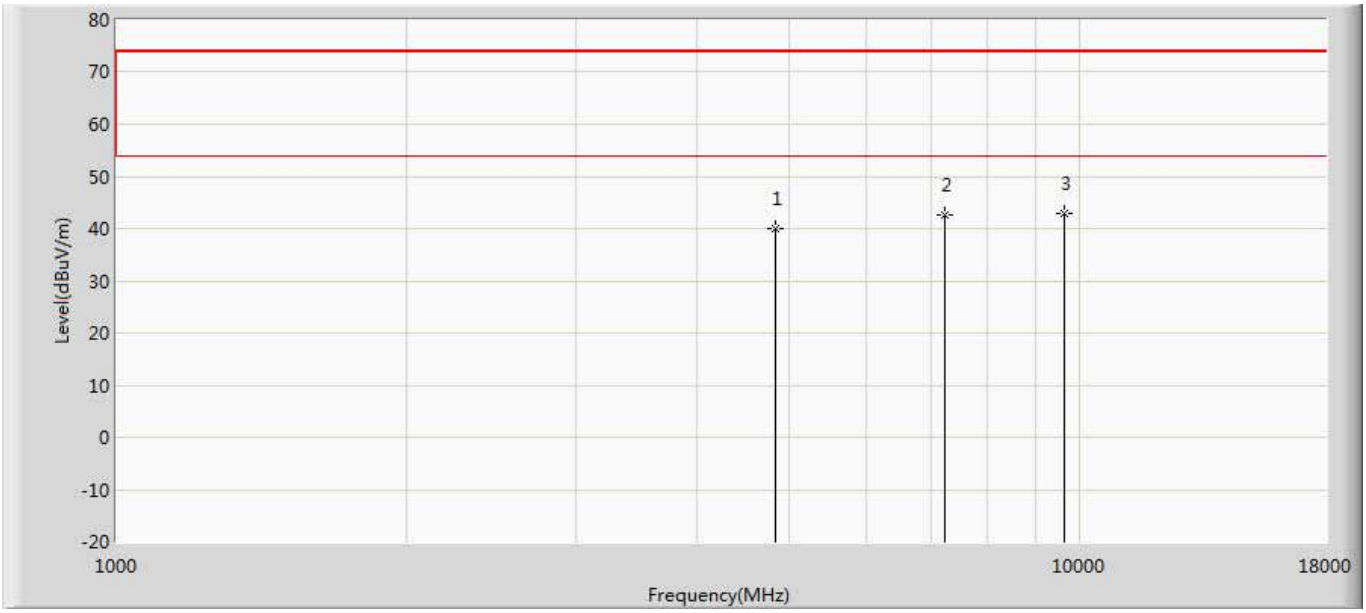
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	41.237	36.595	-32.763	74.000	4.641	PK
2		7386.000	43.568	35.418	-30.432	74.000	8.149	PK
3	*	9848.000	45.118	35.459	-28.882	74.000	9.660	PK

Profile: 2040625R	Page No.: 36
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 15:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 2:Transmit at 2462MHz by 802.11g	



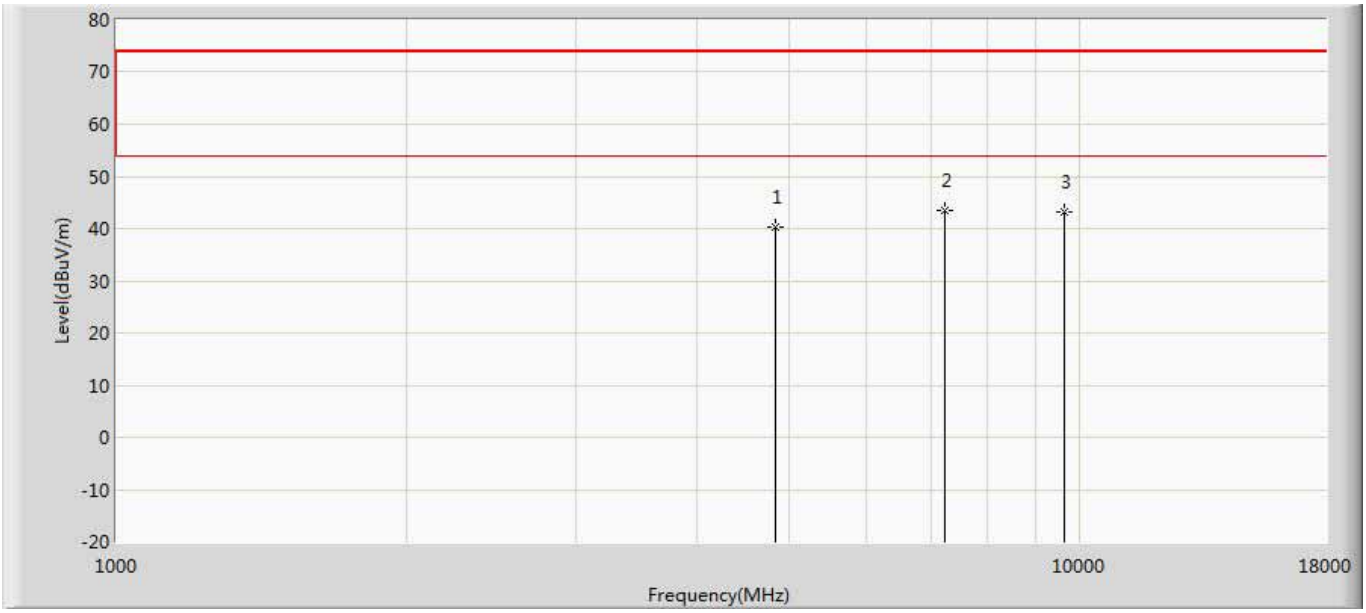
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	40.857	36.215	-33.143	74.000	4.641	PK
2		7386.000	42.974	34.824	-31.026	74.000	8.149	PK
3	*	9848.000	44.755	35.096	-29.245	74.000	9.660	PK

Profile: 2040625R	Page No.: 37
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 15:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 3:Transmit at 2412MHz by 802.11n(20MHz)	



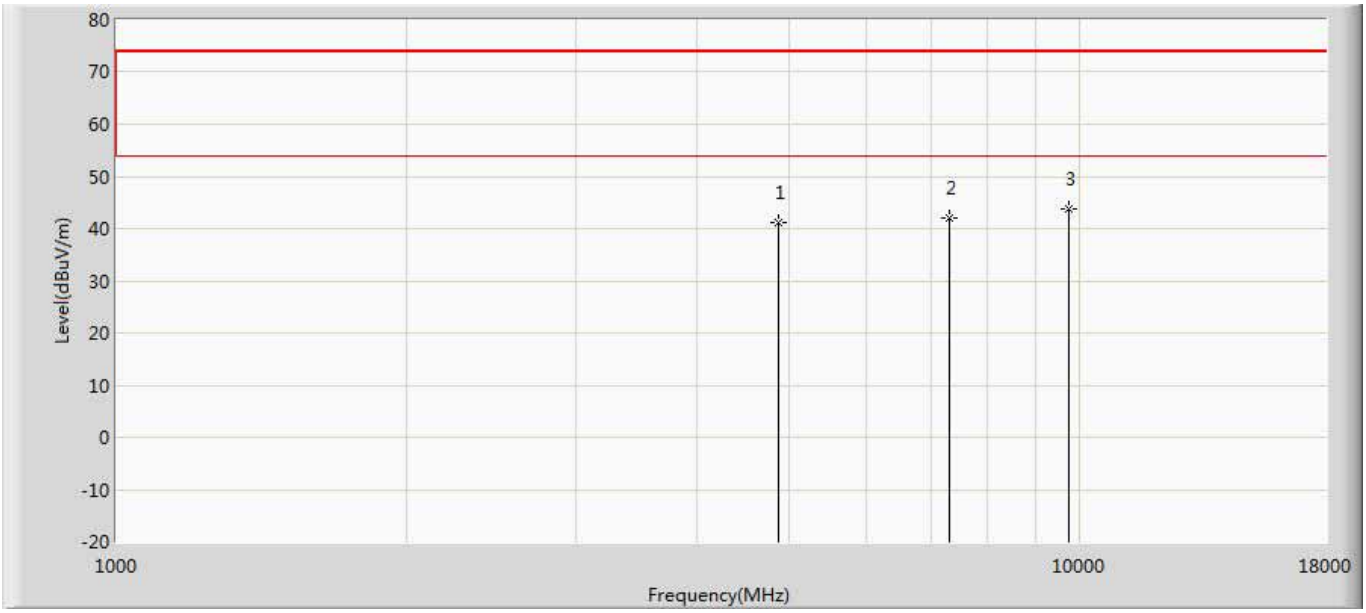
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	39.860	35.297	-34.140	74.000	4.563	PK
2		7236.000	42.731	34.583	-31.269	74.000	8.147	PK
3	*	9648.000	42.903	33.232	-31.097	74.000	9.671	PK

Profile: 2040625R	Page No.: 38
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 15:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 3:Transmit at 2412MHz by 802.11n(20MHz)	



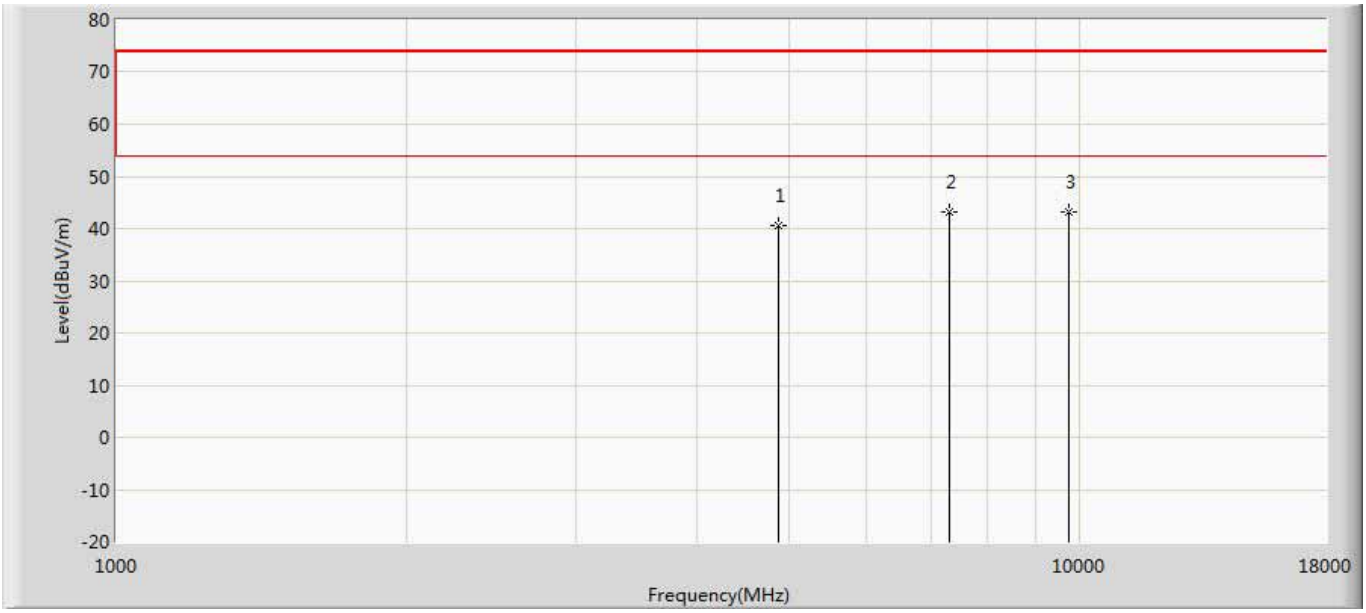
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	40.178	35.615	-33.822	74.000	4.563	PK
2	*	7236.000	43.423	35.275	-30.577	74.000	8.147	PK
3		9648.000	43.219	33.548	-30.781	74.000	9.671	PK

Profile: 2040625R	Page No.: 39
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 15:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 3:Transmit at 2437MHz by 802.11n(20MHz)	



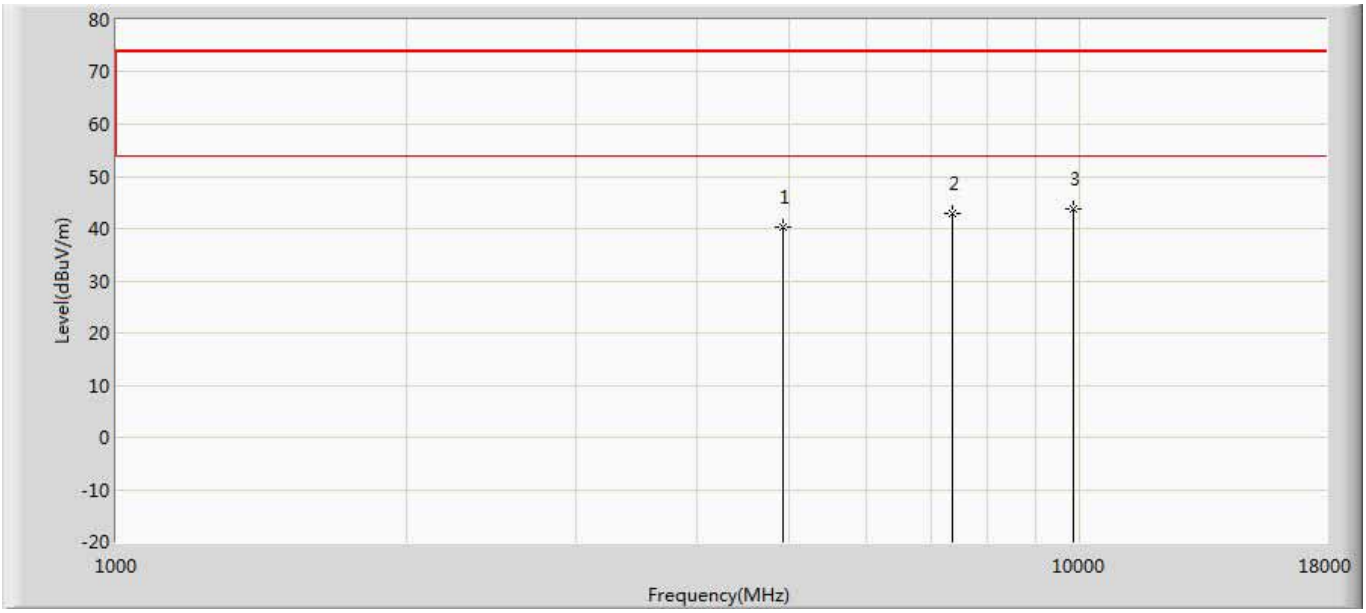
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	41.112	36.265	-32.888	74.000	4.846	PK
2		7311.000	41.953	33.962	-32.047	74.000	7.991	PK
3	*	9748.000	43.773	34.068	-30.227	74.000	9.705	PK

Profile: 2040625R	Page No.: 40
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 15:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 3:Transmit at 2437MHz by 802.11n(20MHz)	



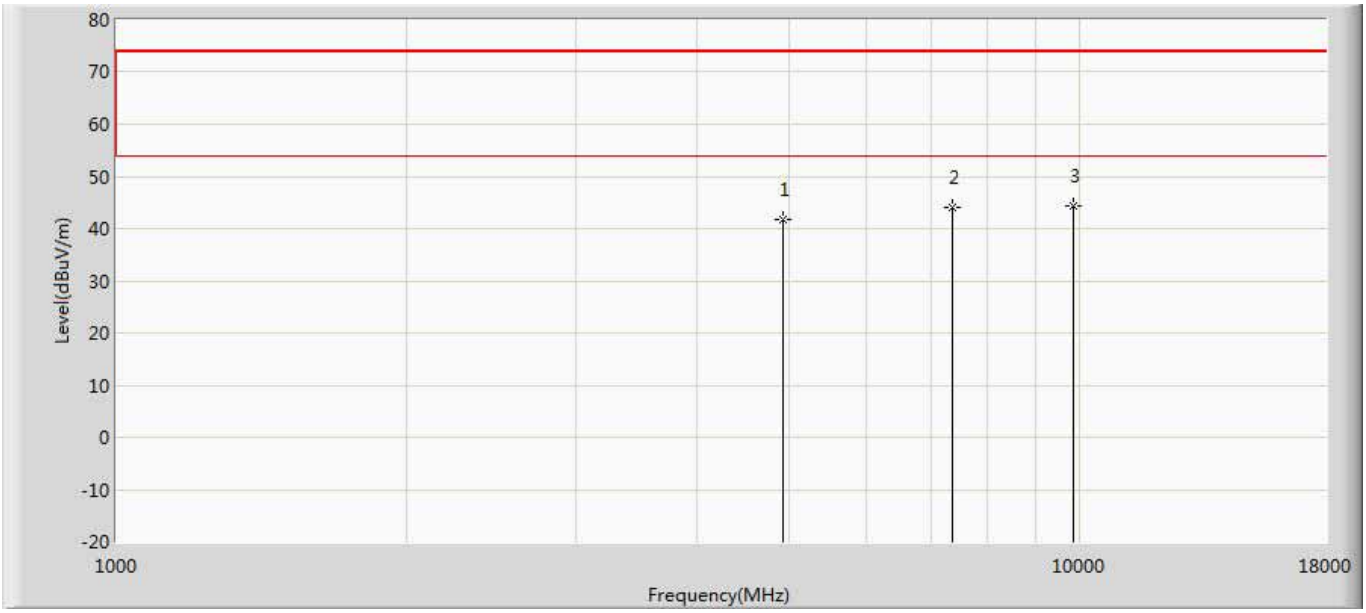
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	40.676	35.829	-33.324	74.000	4.846	PK
2		7311.000	43.247	35.256	-30.753	74.000	7.991	PK
3	*	9748.000	43.328	33.623	-30.672	74.000	9.705	PK

Profile: 2040625R	Page No.: 41
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 15:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 3:Transmit at 2462MHz by 802.11n(20MHz)	



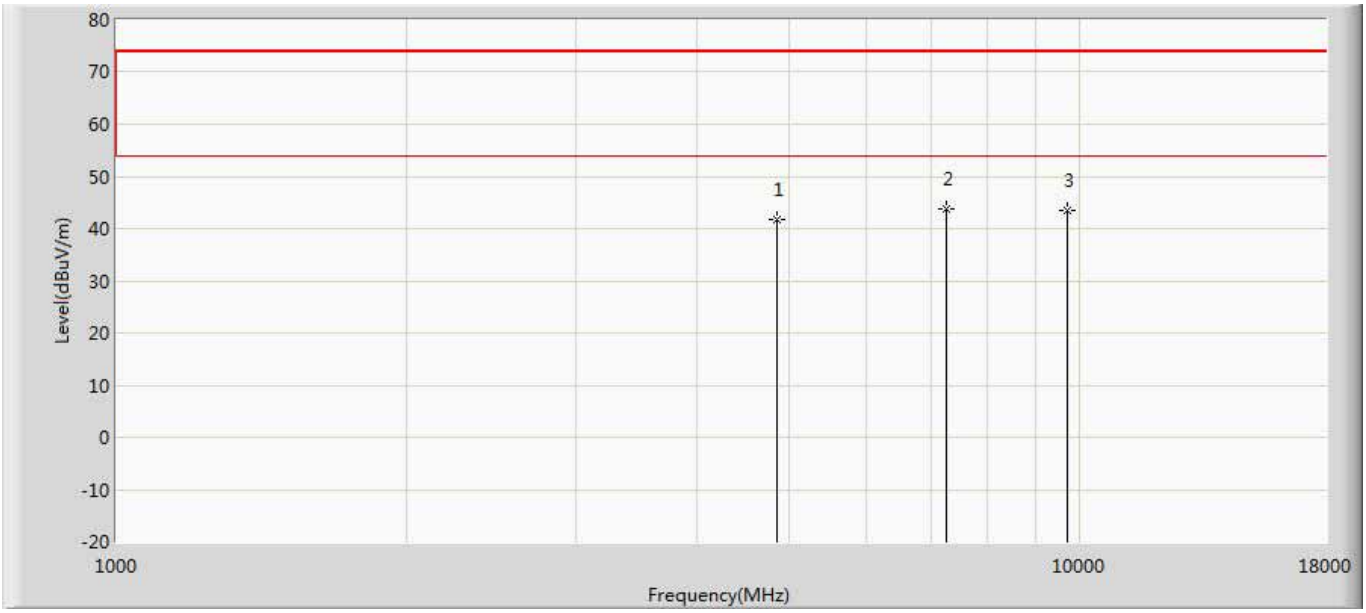
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	40.394	35.752	-33.606	74.000	4.641	PK
2		7386.000	42.998	34.848	-31.002	74.000	8.149	PK
3	*	9848.000	43.742	34.083	-30.258	74.000	9.660	PK

Profile: 2040625R	Page No.: 42
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 15:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 3:Transmit at 2462MHz by 802.11n(20MHz)	



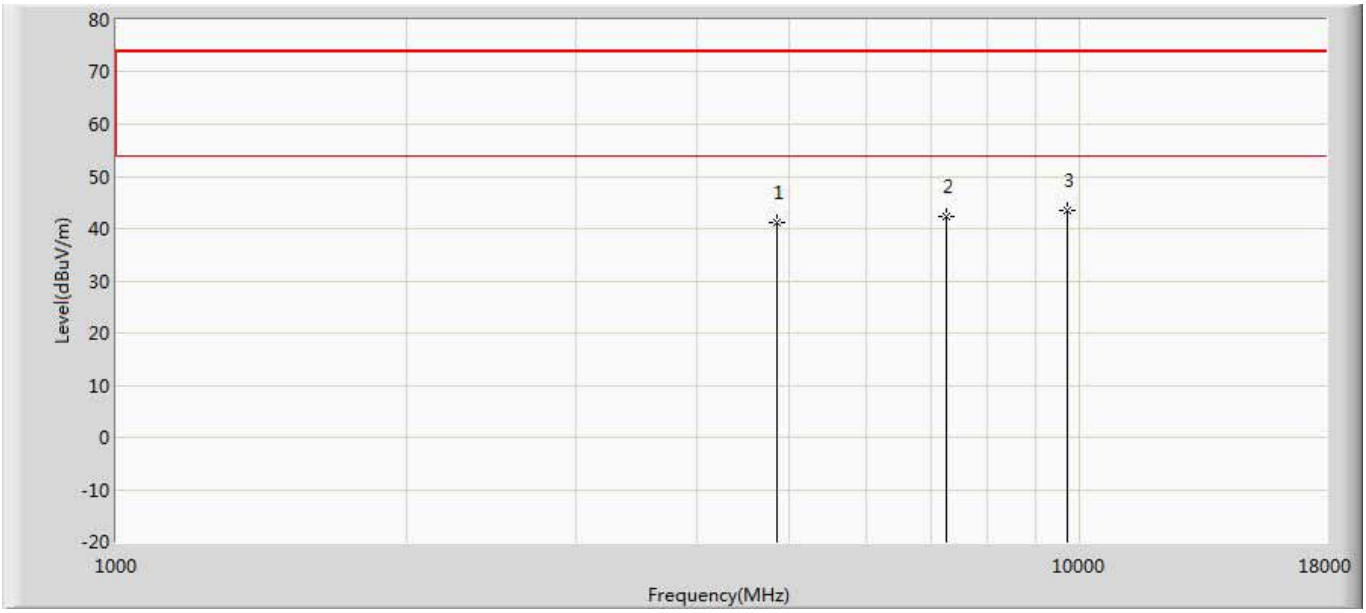
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	41.824	37.182	-32.176	74.000	4.641	PK
2		7386.000	43.993	35.843	-30.007	74.000	8.149	PK
3	*	9848.000	44.297	34.638	-29.703	74.000	9.660	PK

Profile: 2040625R	Page No.: 43
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 15:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 4:Transmit at 2422MHz by 802.11n(40MHz)	



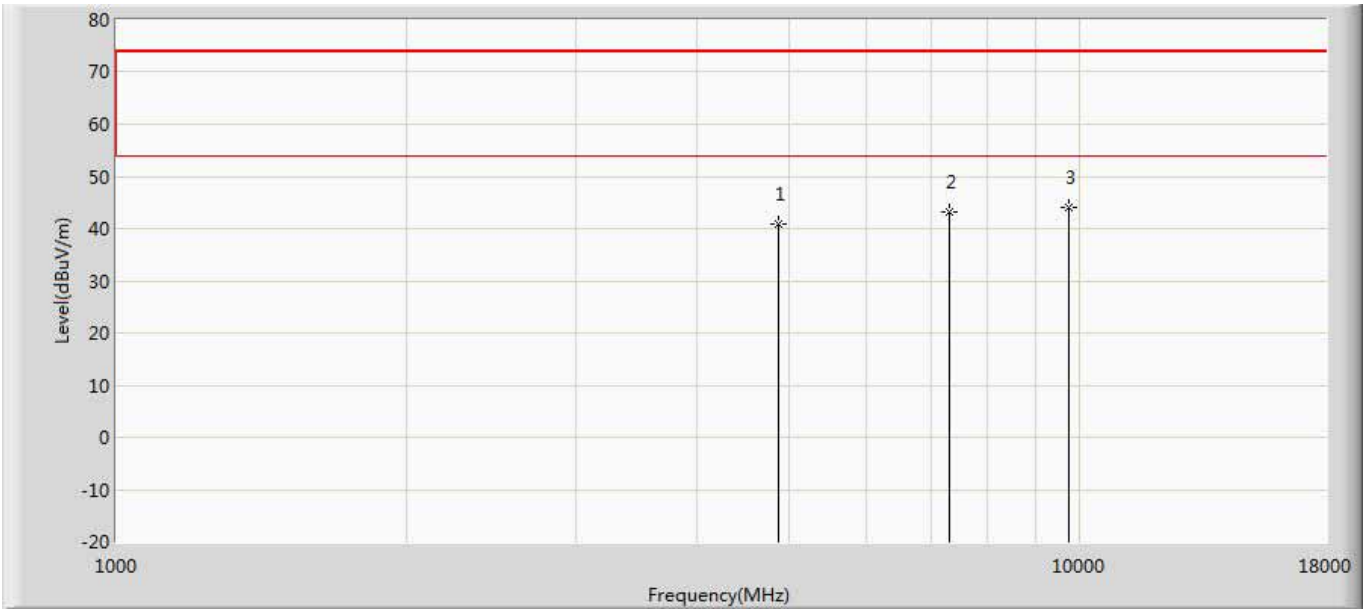
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4844.000	41.734	37.043	-32.266	74.000	4.691	PK
2	*	7266.000	43.853	35.905	-30.147	74.000	7.949	PK
3		9688.000	43.557	33.628	-30.443	74.000	9.929	PK

Profile: 2040625R	Page No.: 44
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 15:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 4:Transmit at 2422MHz by 802.11n(40MHz)	



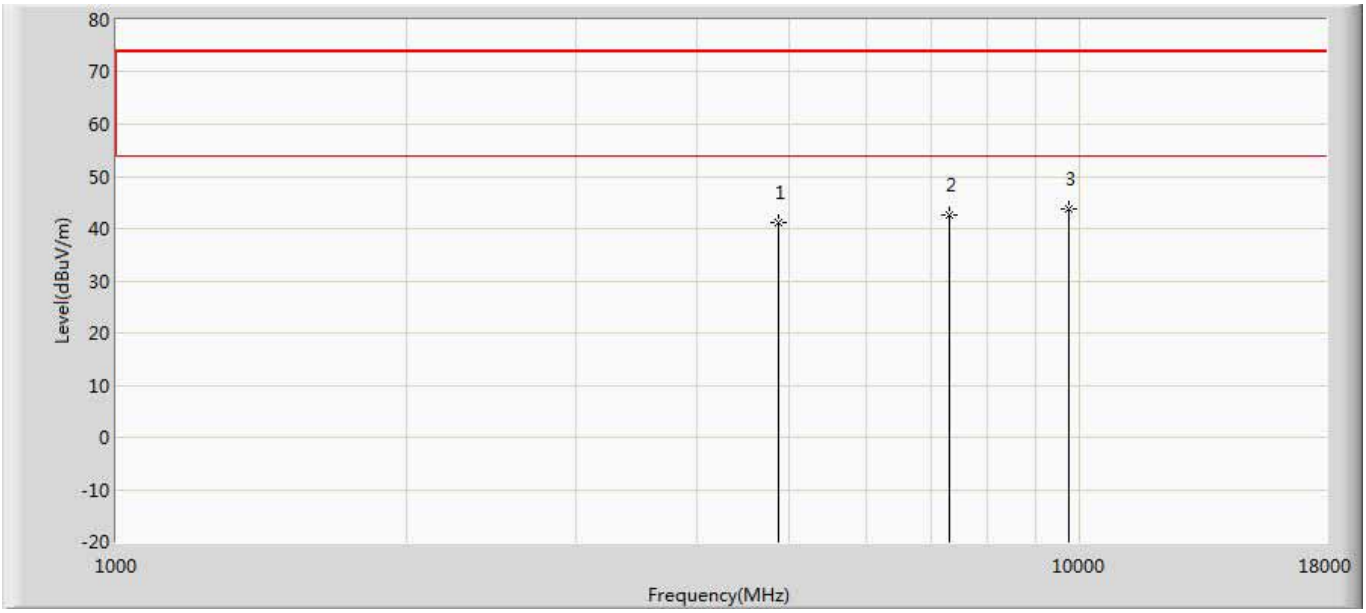
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4844.000	41.137	36.446	-32.863	74.000	4.691	PK
2		7266.000	42.225	34.277	-31.775	74.000	7.949	PK
3	*	9688.000	43.578	33.649	-30.422	74.000	9.929	PK

Profile: 2040625R	Page No.: 45
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 15:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 4:Transmit at 2437MHz by 802.11n(40MHz)	



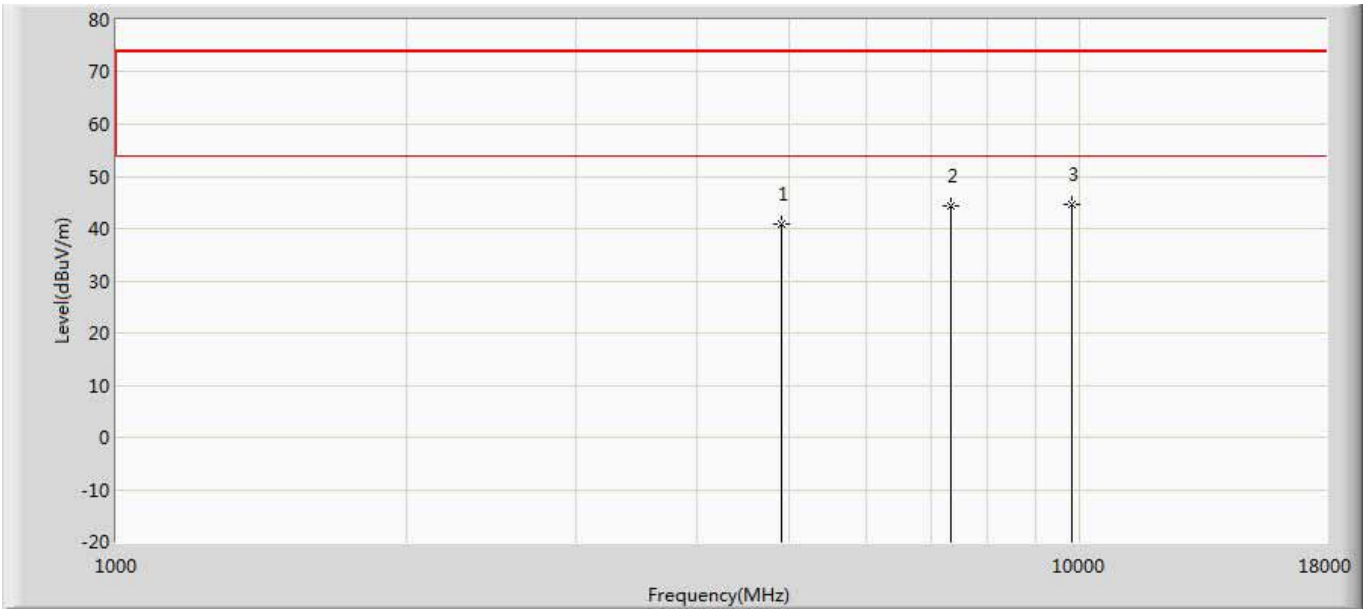
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	40.789	35.942	-33.211	74.000	4.846	PK
2		7311.000	43.094	35.103	-30.906	74.000	7.991	PK
3	*	9748.000	44.147	34.442	-29.853	74.000	9.705	PK

Profile: 2040625R	Page No.: 46
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 15:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 4:Transmit at 2437MHz by 802.11n(40MHz)	



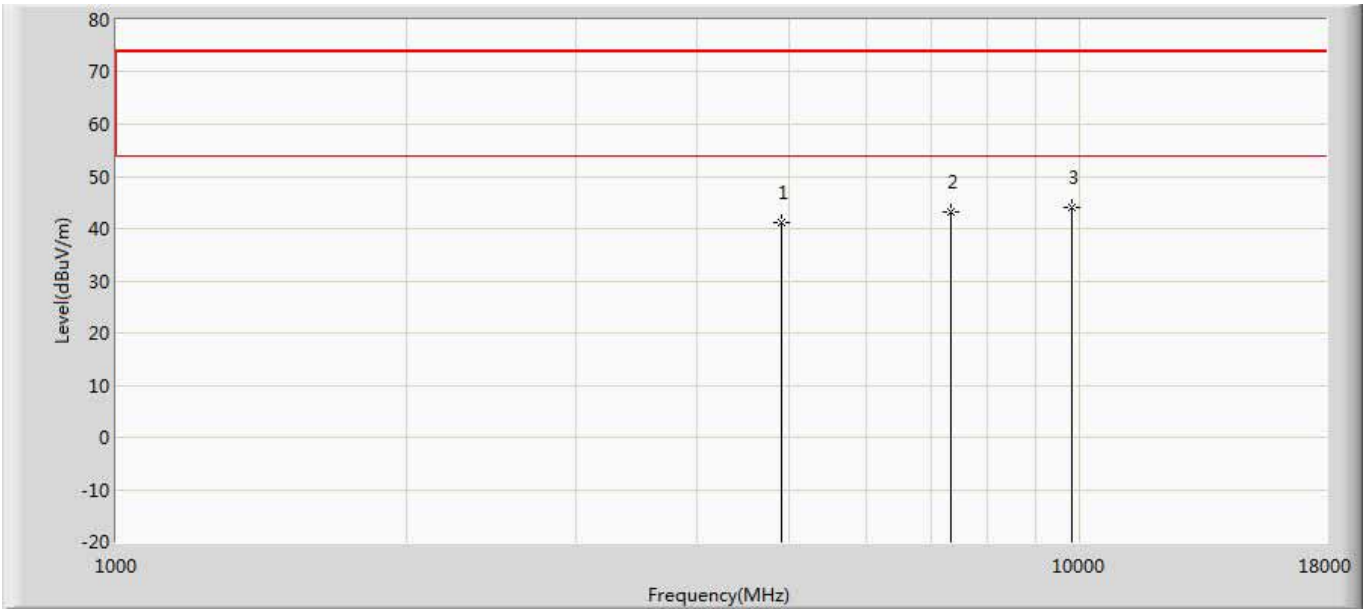
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	41.072	36.225	-32.928	74.000	4.846	PK
2		7311.000	42.543	34.552	-31.457	74.000	7.991	PK
3	*	9748.000	43.873	34.168	-30.127	74.000	9.705	PK

Profile: 2040625R	Page No.: 47
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 15:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 4:Transmit at 2452MHz by 802.11n(40MHz)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4904.000	40.833	36.172	-33.167	74.000	4.661	PK
2		7356.000	44.218	35.887	-29.782	74.000	8.331	PK
3	*	9808.000	44.614	34.488	-29.386	74.000	10.126	PK

Profile: 2040625R	Page No.: 48
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 15:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 4:Transmit at 2452MHz by 802.11n(40MHz)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4904.000	41.239	36.578	-32.761	74.000	4.661	PK
2		7356.000	43.091	34.760	-30.909	74.000	8.331	PK
3	*	9808.000	44.040	33.914	-29.960	74.000	10.126	PK

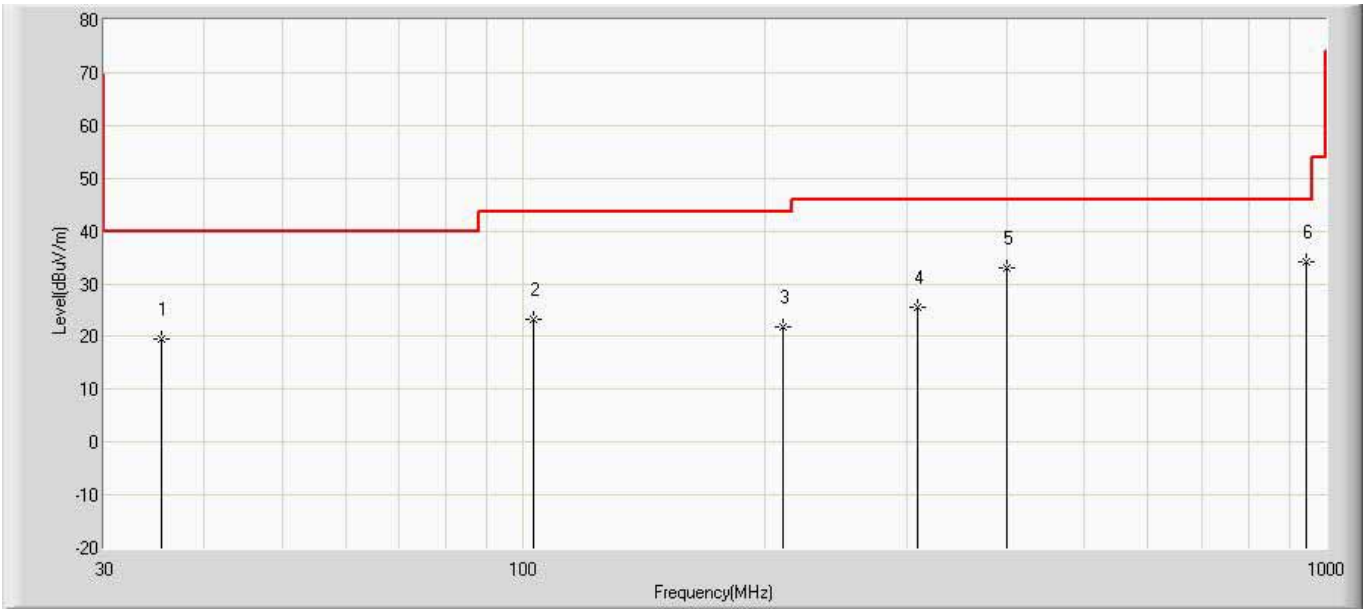
Note1: Measure Level = Reading Level + Factor.

Note2: The test frequency range, 9kHz~30MHz, 18GHz~25GHz, both of the worst case are at least 6dB below the limits, therefore no data appear in the report.

Note3: This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

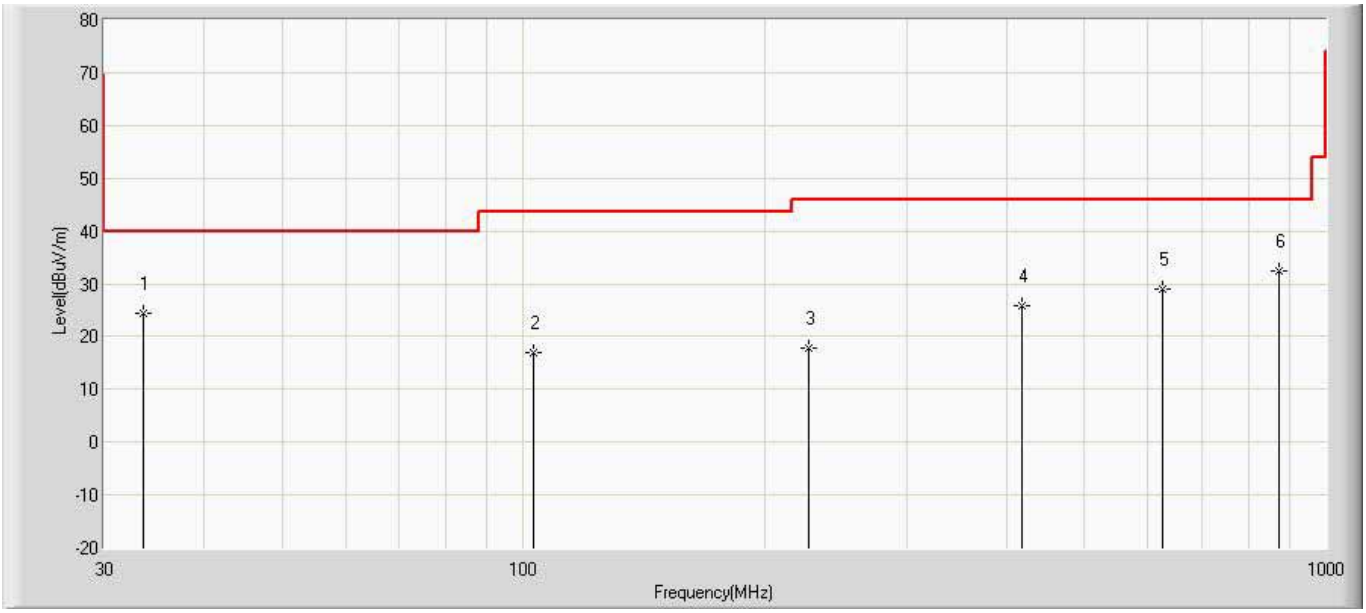
The worst case of Radiated Emission below 1GHz:

Site: AC3	Time: 2020/05/16 - 14:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: AC3_3m (30-1000MHz)	Polarity: Vertical
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		35.335	19.625	-2.693	-20.375	40.000	22.318	QP
2		102.750	23.350	1.274	-20.150	43.500	22.076	QP
3		210.541	21.774	-1.559	-21.726	43.500	23.333	QP
4		310.087	25.437	0.015	-20.563	46.000	25.422	QP
5		399.570	32.893	9.185	-13.107	46.000	23.708	QP
6	*	946.771	34.273	-0.452	-11.727	46.000	34.725	QP

Site: AC3	Time: 2020/05/16 - 14:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: AC3_3m (30-1000MHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		33.638	24.493	-1.574	-15.507	40.000	26.067	QP
2		102.750	16.880	0.343	-26.620	43.500	16.537	QP
3		226.910	17.755	-0.900	-28.245	46.000	18.655	QP
4		418.121	25.963	-0.938	-20.037	46.000	26.902	QP
5		625.095	29.055	-0.836	-16.945	46.000	29.891	QP
6	*	873.172	32.484	1.039	-13.516	46.000	31.444	QP

Note:

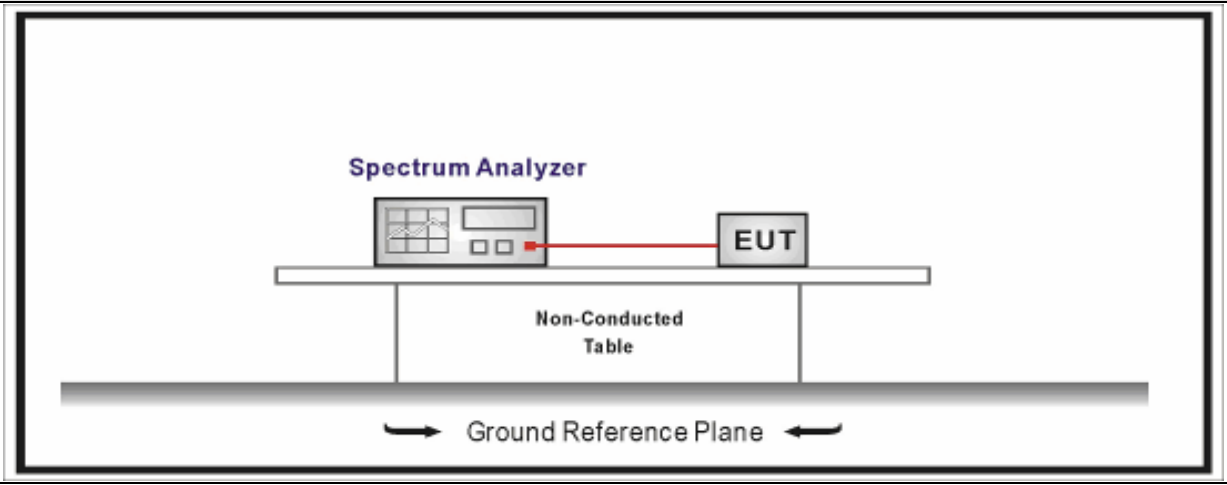
1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

5. Emissions in non-restricted frequency bands

5.1. Test Equipment

Emissions in non-restricted frequency bands / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2019.09.28	2020.09.27
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2020.04.17	2021.04.16
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2019.08.30	2020.08.29
Temperature/Humidity Meter	Zhichen	ZC1-2	TR8-TH	2019.09.02	2020.09.01
Note: All equipment is calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

5.2. Test Setup

Emissions in non-restricted frequency bands


5.3. Limit

Un-Restricted Band Emissions Limit	
RF Output power (Detection methods)	Limit(dB)
RF Output power(Average detector)	30c(Note1)
RF Output power(PK detector)	20c(Note2)

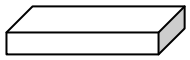
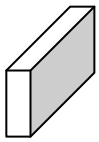
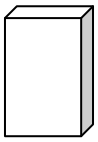
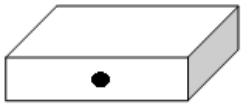
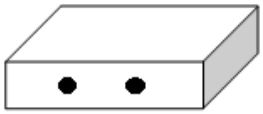
Note 1: If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc).

Note 2: If the maximum peak conducted output power procedure was used, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).

5.4. Test Procedure

Test Method				
	References Rule		Chapter	Description
☒	ANSI C63.10		11.11	Emissions in non-restricted frequency bands
	☒	ANSI C63.10	11.11.2	Reference level measurement
	☒	ANSI C63.10	11.11.3	Emission level measurement

5.5. EUT test Axis definition

<table>
<tr><th>Item</th><th colspan="4">Emissions in non-restricted frequency bands</th></tr>
<tr><td rowspan="3">Device Category</td><td>☐</td><td colspan="3">Fixed point-to-point</td></tr>
<tr><td>☐</td><td colspan="3">Emit multiple directional beams, simultaneously or sequentially</td></tr>
<tr><td>☒</td><td colspan="3">Other cases</td></tr>
<tr><td>Test mode</td><td colspan="4">Mode 1~4</td></tr>
<tr><td rowspan="12">Test method</td><td>☐</td><td colspan="3">Radiated</td></tr>
<tr><td rowspan="3"></td><td>X Axis</td><td>Y Axis</td><td>Z Axis</td></tr>
<tr><td>  </td><td>  </td><td>  </td></tr>
<tr><td>Worst Axis ☐</td><td>Worst Axis ☐</td><td>Worst Axis ☐</td></tr>
<tr><td>☒</td><td colspan="3">Conducted</td></tr>
<tr><td>☒</td><td colspan="3">Chain 1</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☐</td><td>Chain 1</td><td colspan="2">Chain 2</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☐</td><td>Chain 1</td><td>Chain 2</td><td>Chain 3</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
</table>

5.6. Test Result

Product Name	:	Mobile Computer			
Test Mode	:	Mode1~4	Test Site	:	TR-8
Test Date	:	2020.04.27	Test Engineer	:	Eric

Mode	Channel	Test Frequency (MHz)	Maximum In-Band PSD[a] (dBm/100kHz)	Frequency (MHz)	Out-Band PSD[b] (dBm/100kHz)	[a]-[b] (dB)	Limit (dB)	Result
1	01	2412	12.710	2400	-37.77	50.480	>30	Pass
1	11	2462	13.520	2500	-50.66	64.180	>30	Pass
2	01	2412	9.794	2400	-21.96	31.754	>30	Pass
2	11	2462	8.361	2500	-50.57	58.931	>30	Pass
3	01	2412	10.58	2400	-20.75	31.330	>30	Pass
3	11	2462	8.682	2500	-50.51	59.192	>30	Pass
4	03	2422	5.442	2400	-30.76	36.202	>30	Pass
4	19	2452	3.307	2500	-50.15	53.457	>30	Pass

Note: The worst case of emissions in non-restricted frequency bands as below:

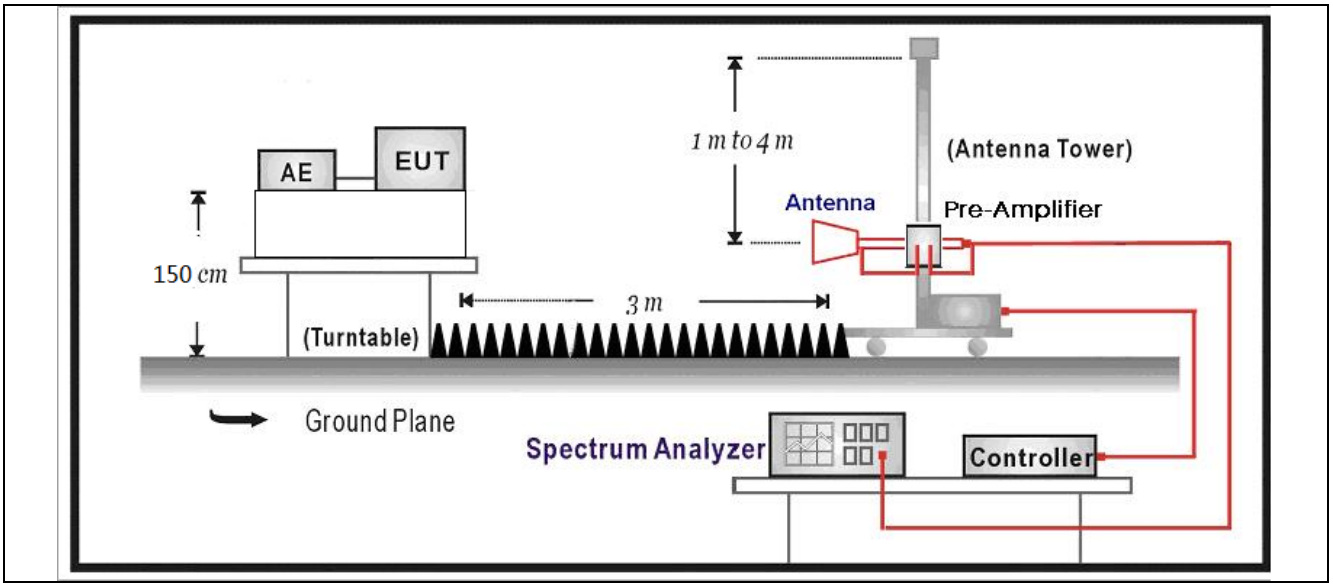
Mode 3 CH01(2412MHz)

6. Band Edge

6.1. Test Equipment

Band Edge / AC-5					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	R&S	FSV	104212	2019.12.28	2020.12.27
Signal analyzer	Agilent	E4446A	MY45300103	2020.05.08	2021.05.07
low Noise Amplifier	BXT	NA2651D	LNA17040209	2020.04.13	2021.04.12
Pre-Amplifier	EMCI	EMC184045SE	980263	2020.05.24	2021.05.23
DRG Horn Antenna	ETS-Lindgren	3117	00167055	2020.05.25	2021.05.24
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2019.03.23	2021.03.22
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2020.04.13	2021.04.12
Coaxial Cable	ROSENBERGER	LA1-C011-2000/3000	AC5-40G	2020.04.18	2021.04.17
Temperature/Humidity Meter	RTS	RTS-8S	AC5-TH	2019.09.02	2020.09.01
Quietek EMI V3(test software)	Quietek	N/A	N/A	N/A	N/A
Note: All equipment is calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

6.2. Test Setup



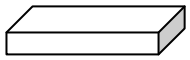
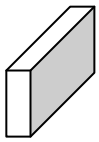
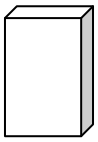
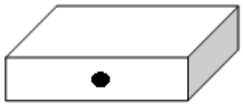
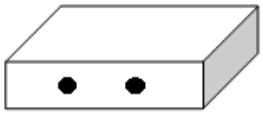
6.3. Limit

Band edge Limit				
Frequency bands (MHz)	Detector	Limit (dB μ V/m)	RBW (MHz)	Distance (m)
2310-2390 2483.5-2500	PK	74	1	3
	AV	54	1	3
Note: The field strength of emissions appearing within these frequency bands shall not exceed the limits.				

6.4. Test Procedure

Test Method						
	References Rule				Chapter	Description
☒	ANSI C63.10				6.10	Band-edge testing
	☒	ANSI C63.10			6.10.5	Restricted-band band-edge measurements
	☐	ANSI C63.10			6.10.6	Marker-delta method
☒	ANSI C63.10				11.12	Emissions in restricted frequency bands
	☒	ANSI C63.10			11.12.1	Radiated emission measurements
	☐	ANSI C63.10			11.12.2.7	Radiated spurious emission test
☐	ANSI C63.10				6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
☐	ANSI C63.10				6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
☒	ANSI C63.10				6.6	Radiated emissions from unlicensed wireless devices above 1 GHz
	☐	ANSI C63.10			11.12.2	Antenna-port conducted measurements
		☐	ANSI C63.10		11.12.2.3	Quasi-peak measurement procedure
		☒	ANSI C63.10		11.12.2.4	Peak power measurement procedure
		☒	ANSI C63.10		11.12.2.5	Average power measurement procedures
			☐	ANSI C63.10	11.12.2.5.1	Trace averaging with continuous EUT transmission at full power
			☐	ANSI C63.10	11.12.2.5.2	Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction
			☒	ANSI C63.10	11.12.2.5.3	Reduced VBW averaging across ON and OFF times of the EUT transmissions with max hold

6.5. EUT test definition

<table>
<tr><th>Item</th><th colspan="4">Radiated Emission Band Edge</th></tr>
<tr><td rowspan="3">Device Category</td><td>☐</td><td colspan="3">Fixed point-to-point</td></tr>
<tr><td>☐</td><td colspan="3">Emit multiple directional beams, simultaneously or sequentially</td></tr>
<tr><td>☒</td><td colspan="3">Other cases</td></tr>
<tr><td>Test mode</td><td colspan="4">Mode 1~4</td></tr>
<tr><td rowspan="13">Test method</td><td>☒</td><td colspan="3">Radiated</td></tr>
<tr><td rowspan="3"></td><td>X Axis</td><td>Y Axis</td><td>Z Axis</td></tr>
<tr><td>  </td><td>  </td><td>  </td></tr>
<tr><td>Worst Axis ☒</td><td>Worst Axis ☐</td><td>Worst Axis ☐</td></tr>
<tr><td>☐</td><td colspan="3">Conducted</td></tr>
<tr><td>☐</td><td colspan="3">Chain 1</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☐</td><td>Chain 1</td><td colspan="2">Chain 2</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☐</td><td>Chain 1</td><td>Chain 2</td><td>Chain 3</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
</table>

6.6. Duty Cycle

Test Mode	Tx On (ms)	Tx Off (ms)	VBW	Tx On + Tx Off (ms)	Duty Cycle (%)
802.11b	8.38	0.04	120Hz	8.42	99.5
802.11g	1.38	0.06	750Hz	1.44	95.8
802.11n(20MHz)	1.265	0.065	820Hz	1.33	95.1
802.11n(40MHz)	0.624	0.057	1.8kHz	0.681	91.6

802.11b

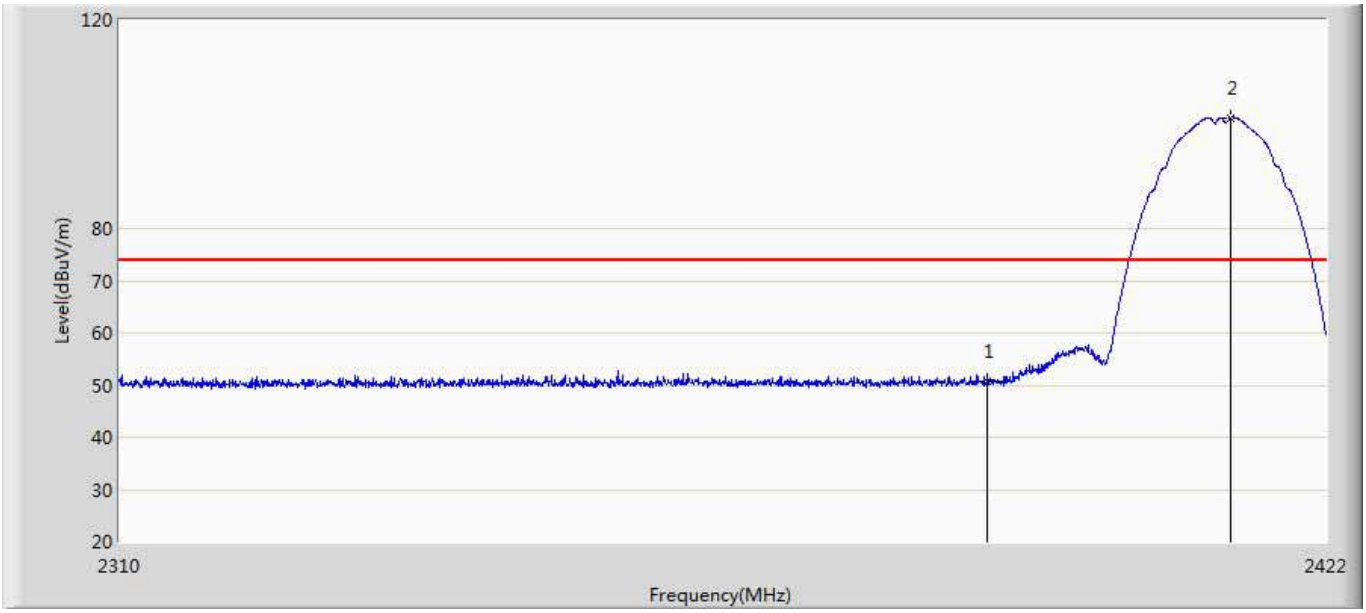
802.11g

802.11n(20MHz)

802.11n(40MHz)

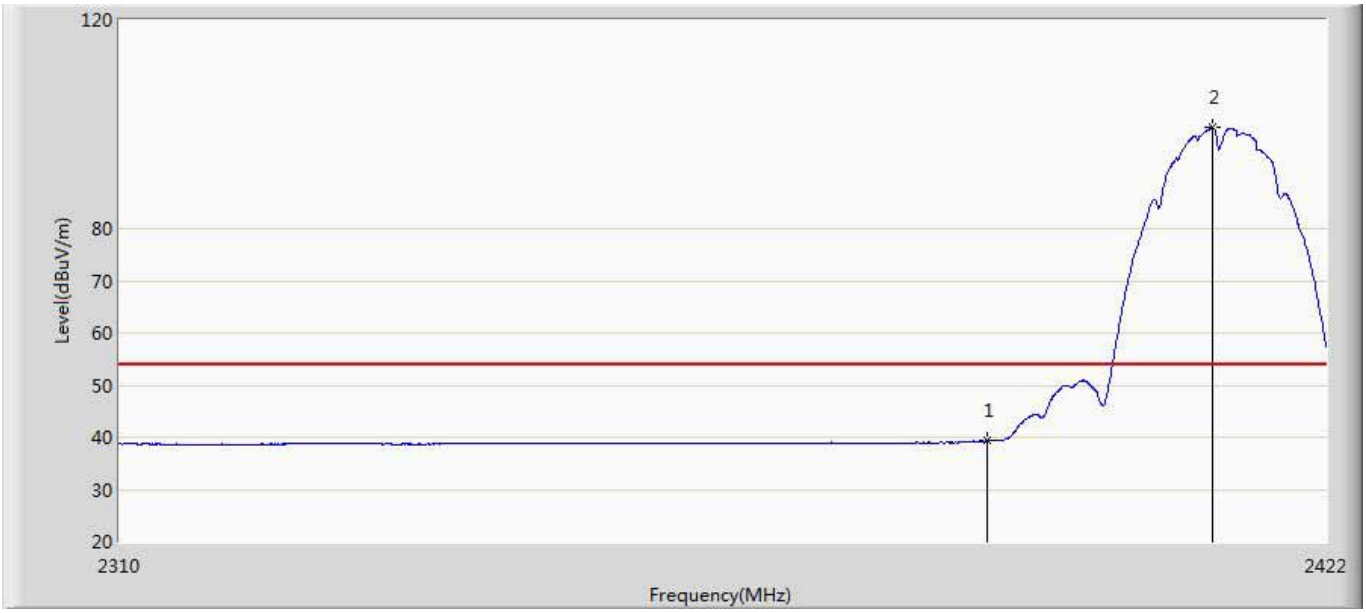
6.7. Test Result

Profile: 2040625R	Page No.: 1
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 10:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 1:Transmit at 2412Mhz by 802.11b	



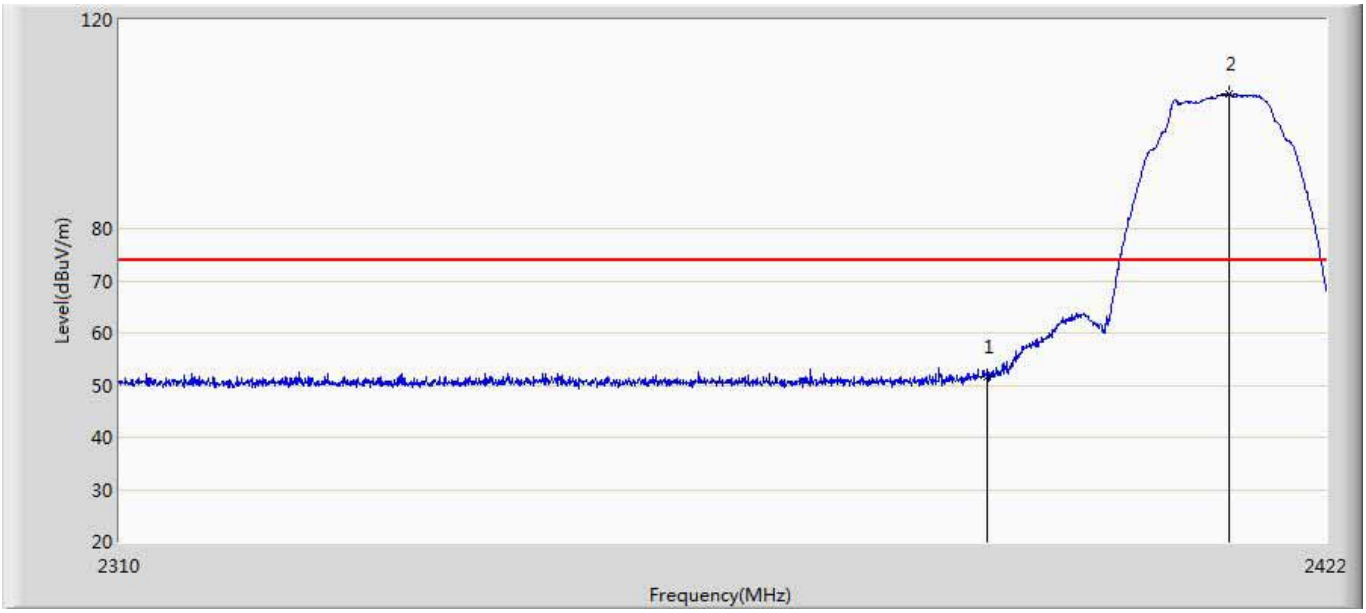
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	50.586	15.129	-23.414	74.000	35.458	PK
2	*	2412.928	101.228	65.743	27.228	74.000	35.485	PK

Profile: 2040625R	Page No.: 2
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 10:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 1:Transmit at 2412Mhz by 802.11b	



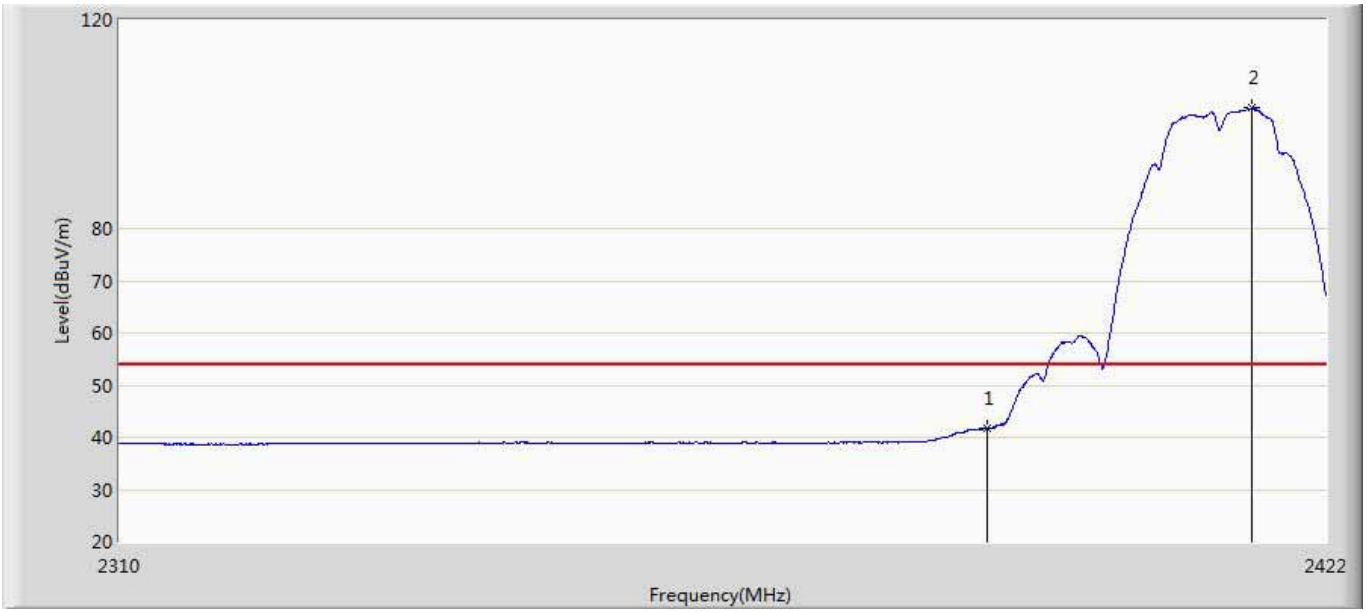
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	39.309	3.852	-14.691	54.000	35.458	AV
2	*	2411.192	99.381	63.900	45.381	54.000	35.481	AV

Profile: 2040625R	Page No.: 3
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 10:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 1:Transmit at 2412Mhz by 802.11b	



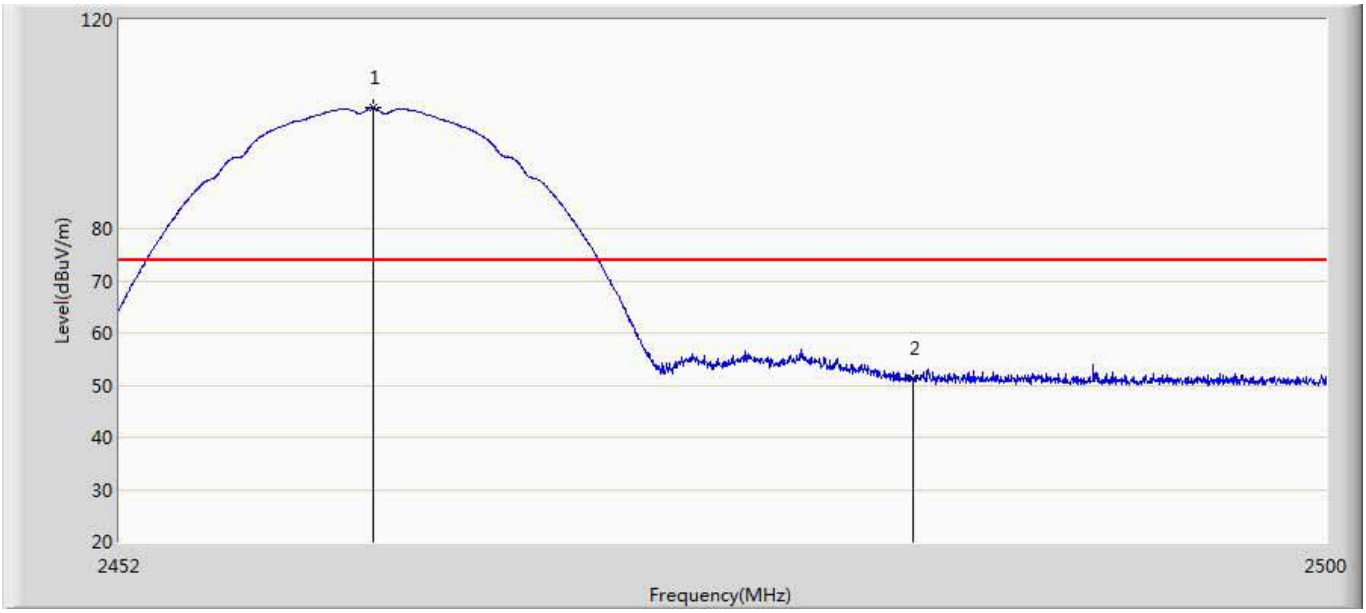
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	51.634	16.177	-22.366	74.000	35.458	PK
2	*	2412.760	105.886	70.401	31.886	74.000	35.484	PK

Profile: 2040625R	Page No.: 4
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 10:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 1:Transmit at 2412Mhz by 802.11b	



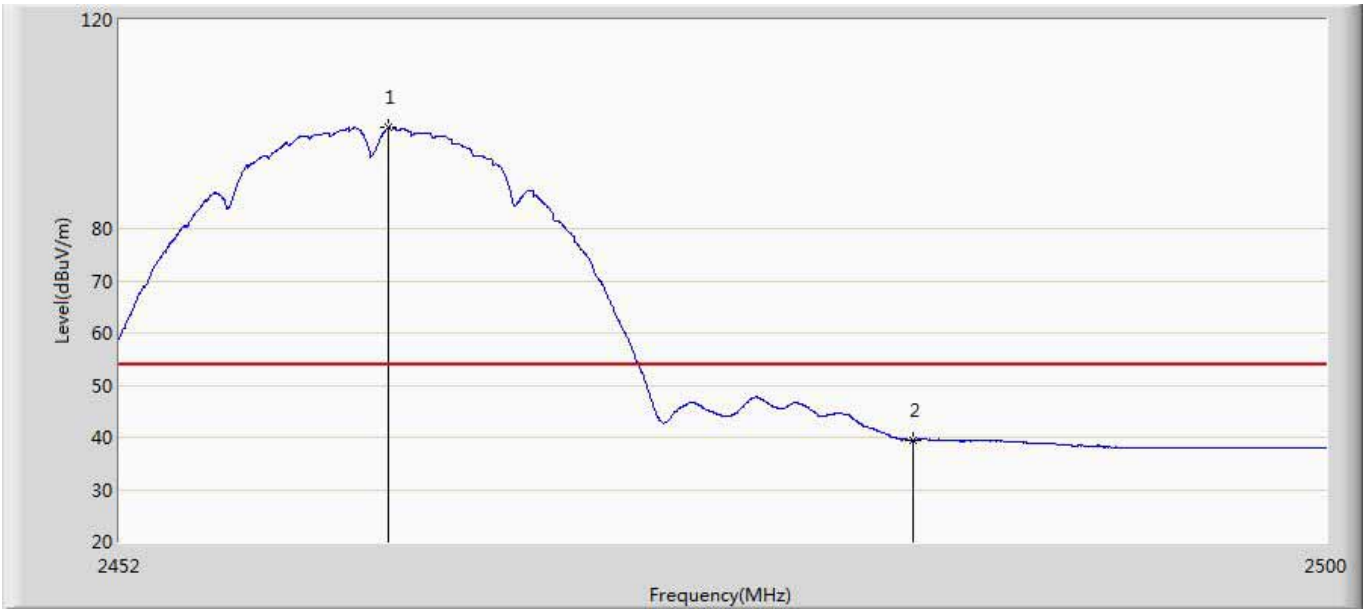
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	41.773	6.316	-12.227	54.000	35.458	AV
2	*	2415.000	103.087	67.597	49.087	54.000	35.490	AV

Profile: 2040625R	Page No.: 5
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 10:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 1:Transmit at 2462Mhz by 802.11b	



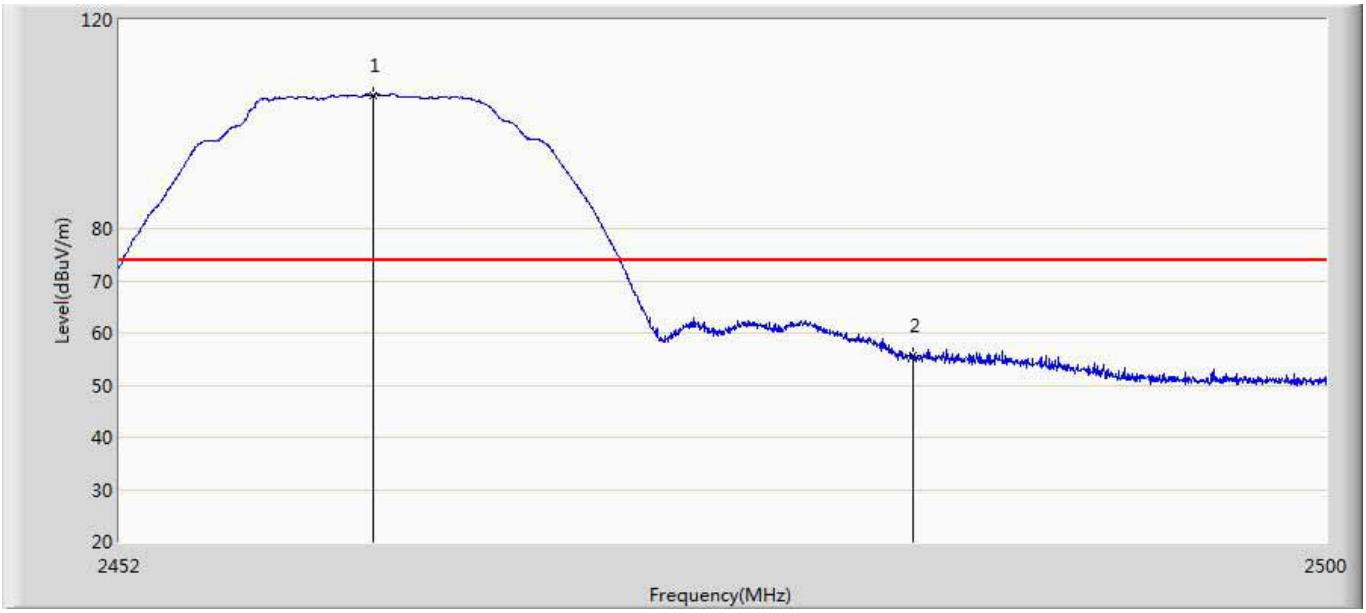
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2462.032	103.187	67.648	29.187	74.000	35.539	PK
2		2483.500	51.177	15.659	-22.823	74.000	35.517	PK

Profile: 2040625R	Page No.: 6
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 10:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 1:Transmit at 2462Mhz by 802.11b	



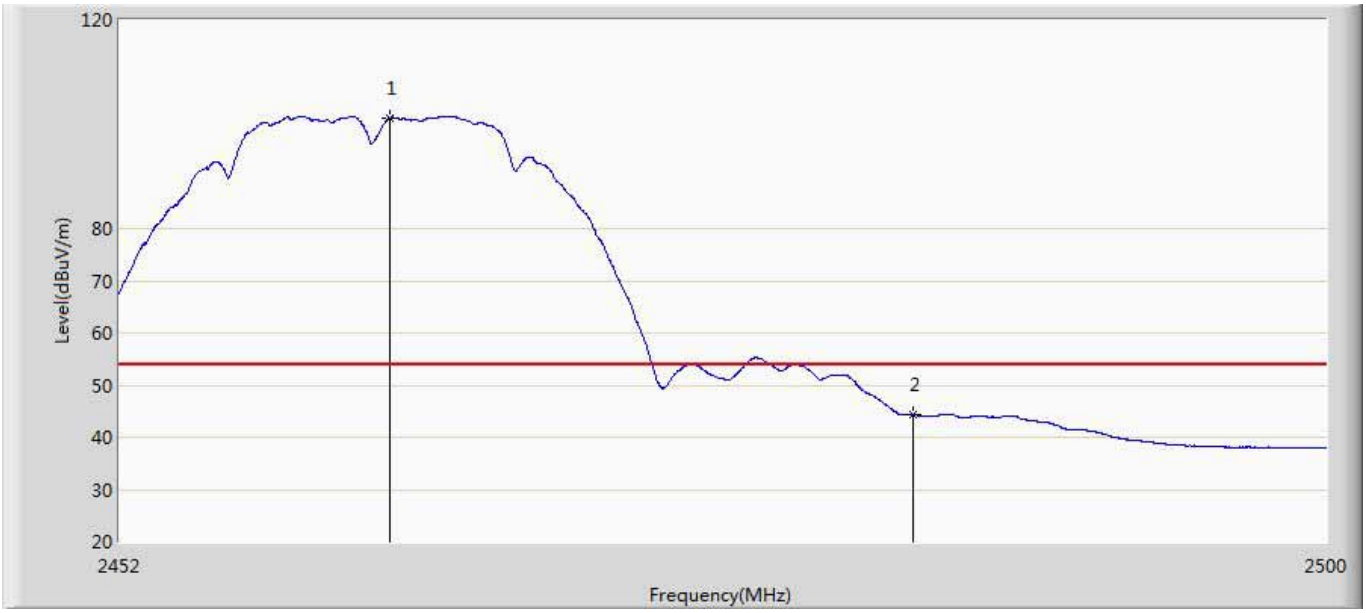
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2462.632	99.352	63.814	45.352	54.000	35.538	AV
2		2483.500	39.534	4.016	-14.466	54.000	35.517	AV

Profile: 2040625R	Page No.: 7
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 10:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 1:Transmit at 2462Mhz by 802.11b	



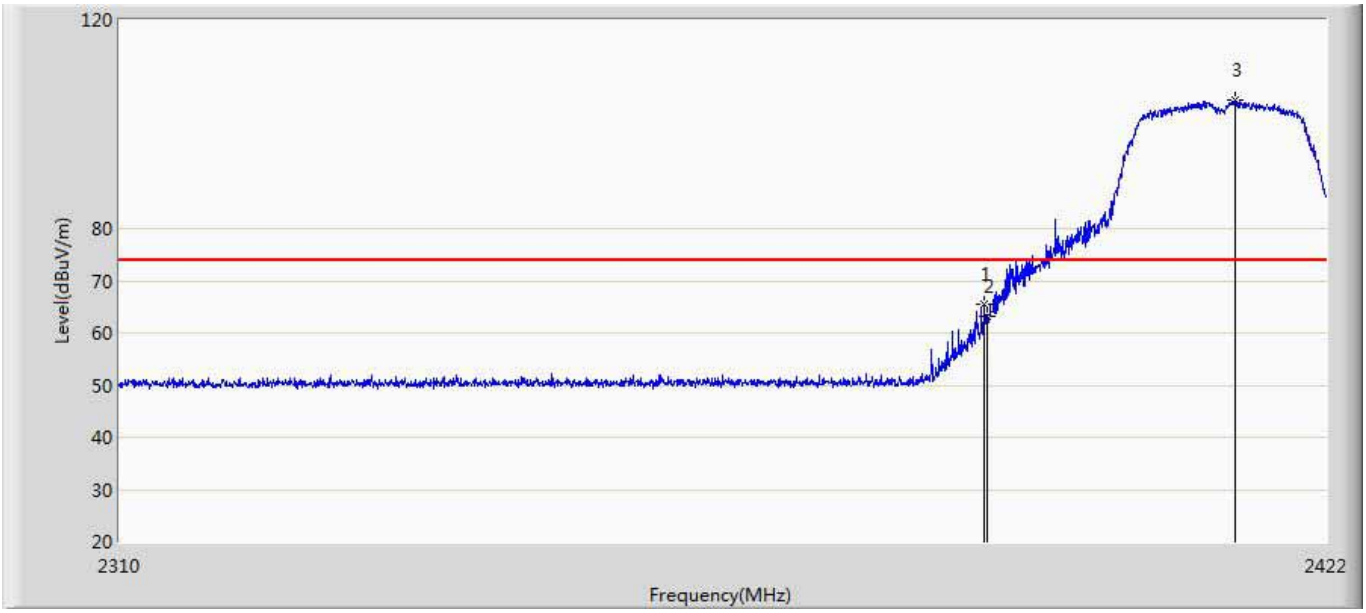
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2462.032	105.562	70.023	31.562	74.000	35.539	PK
2		2483.500	55.556	20.038	-18.444	74.000	35.517	PK

Profile: 2040625R	Page No.: 8
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 10:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 1:Transmit at 2462Mhz by 802.11b	



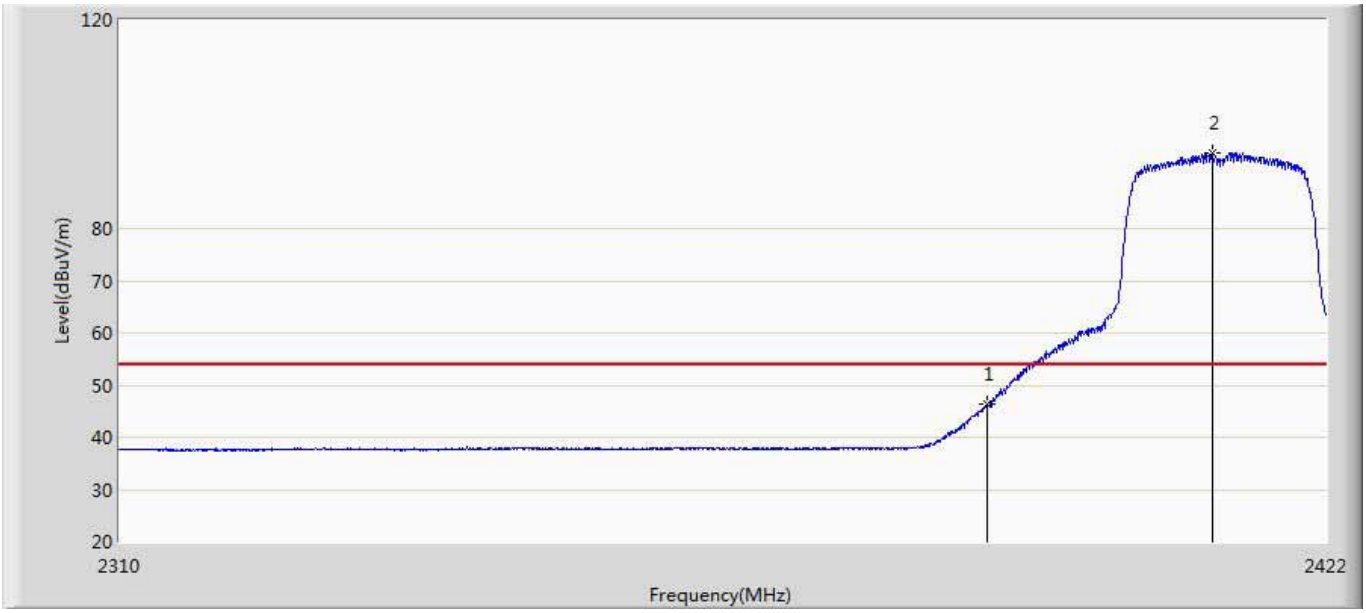
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2462.704	101.256	65.719	47.256	54.000	35.538	AV
2		2483.500	44.294	8.776	-9.706	54.000	35.517	AV

Profile: 2040625R	Page No.: 9
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 10:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 2:Transmit at 2412Mhz by 802.11g	



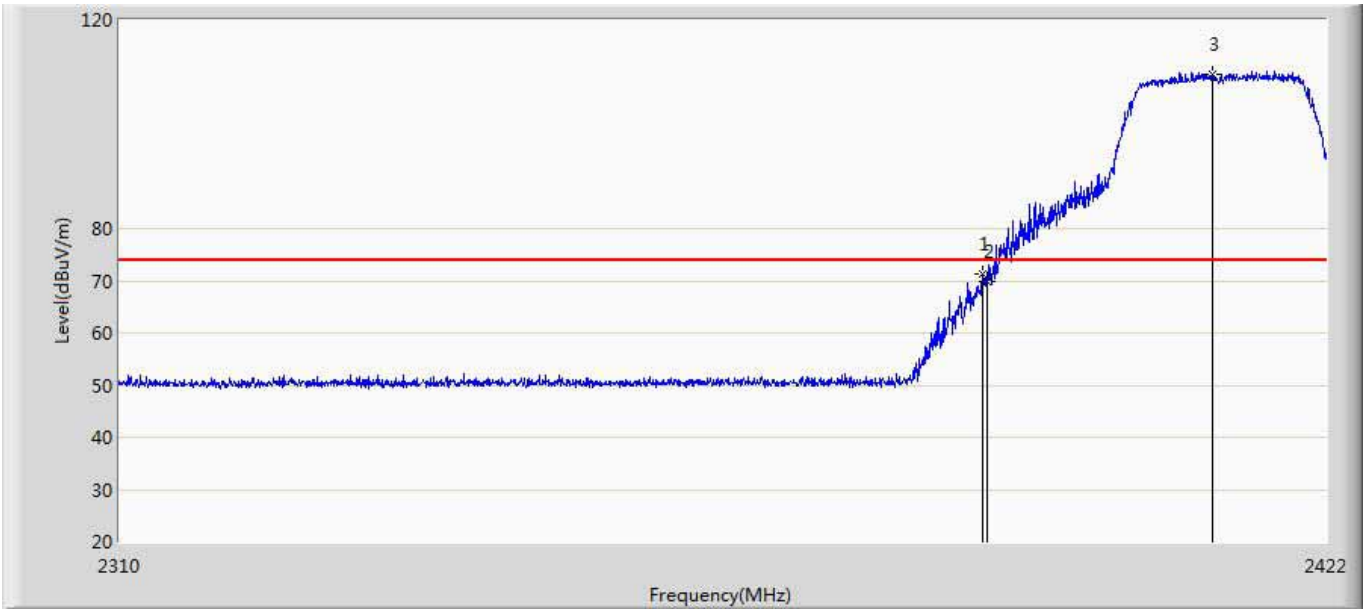
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2389.800	65.587	30.130	-8.413	74.000	35.458	PK
2		2390.000	63.265	27.808	-10.735	74.000	35.458	PK
3	*	2413.432	104.495	69.009	30.495	74.000	35.486	PK

Profile: 2040625R	Page No.: 10
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 10:54
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 2:Transmit at 2412Mhz by 802.11g	



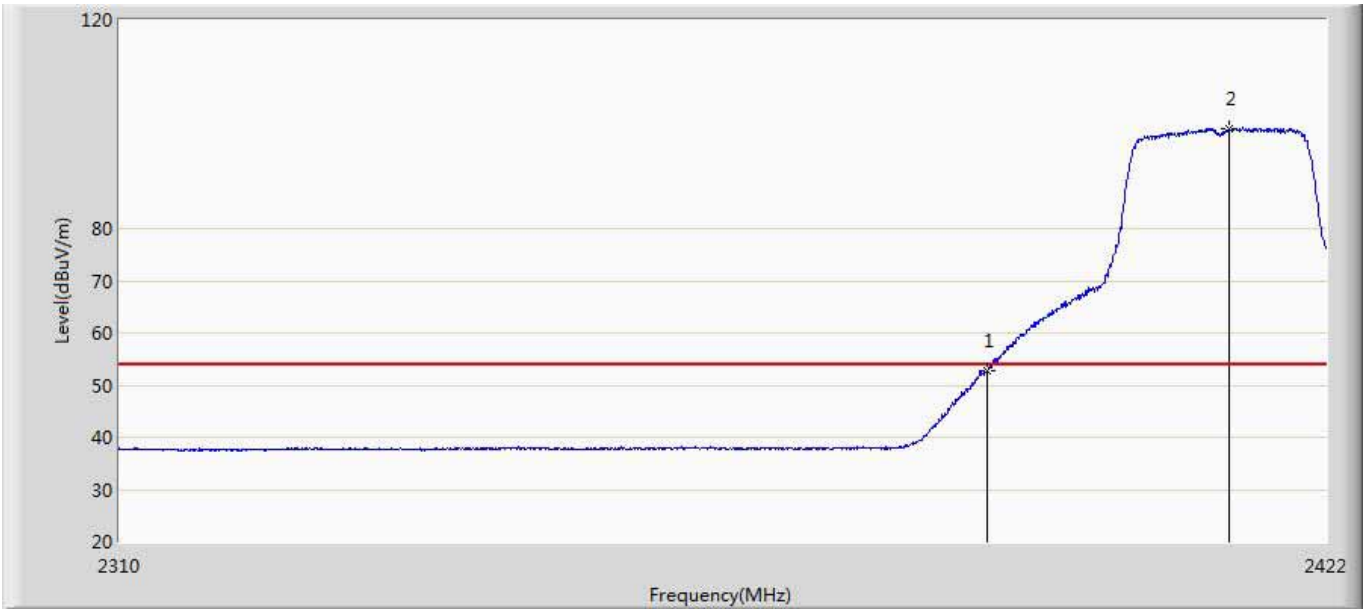
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	46.333	10.876	-7.667	54.000	35.458	AV
2	*	2411.192	94.418	58.937	40.418	54.000	35.481	AV

Profile: 2040625R	Page No.: 11
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 10:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 2:Transmit at 2412Mhz by 802.11g	



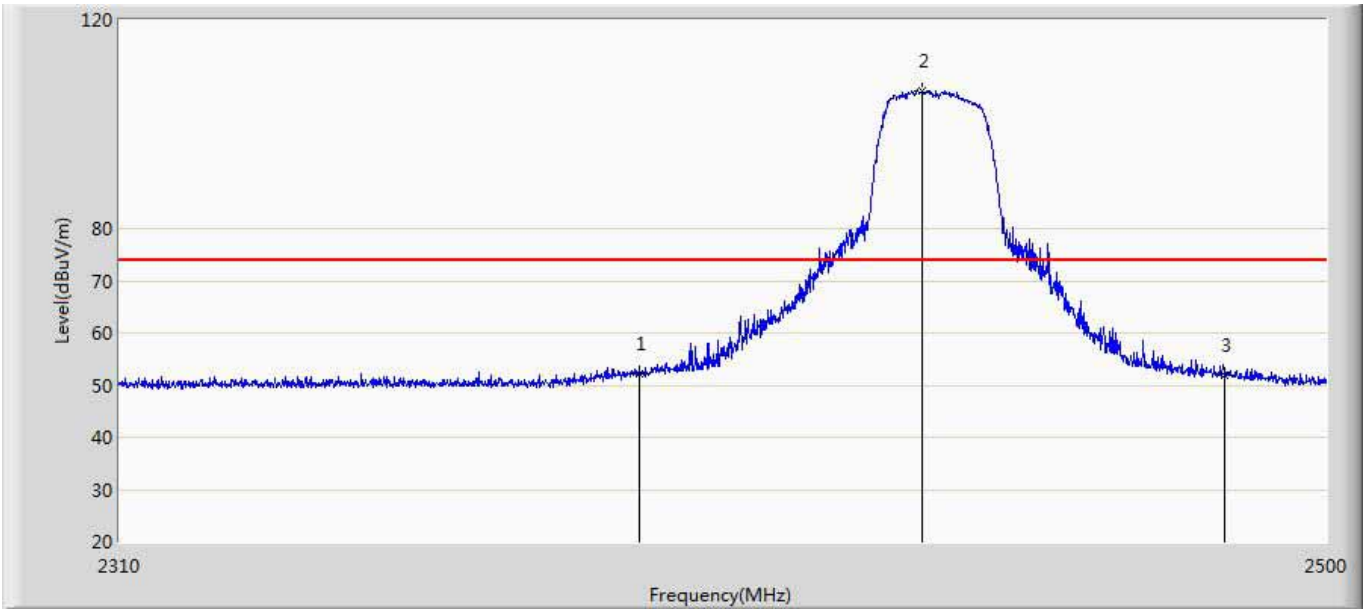
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2389.632	71.207	35.750	-2.793	74.000	35.457	PK
2		2390.000	69.912	34.455	-4.088	74.000	35.458	PK
3	*	2411.248	109.677	74.196	35.677	74.000	35.481	PK

Profile: 2040625R	Page No.: 12
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 10:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 2:Transmit at 2412Mhz by 802.11g	



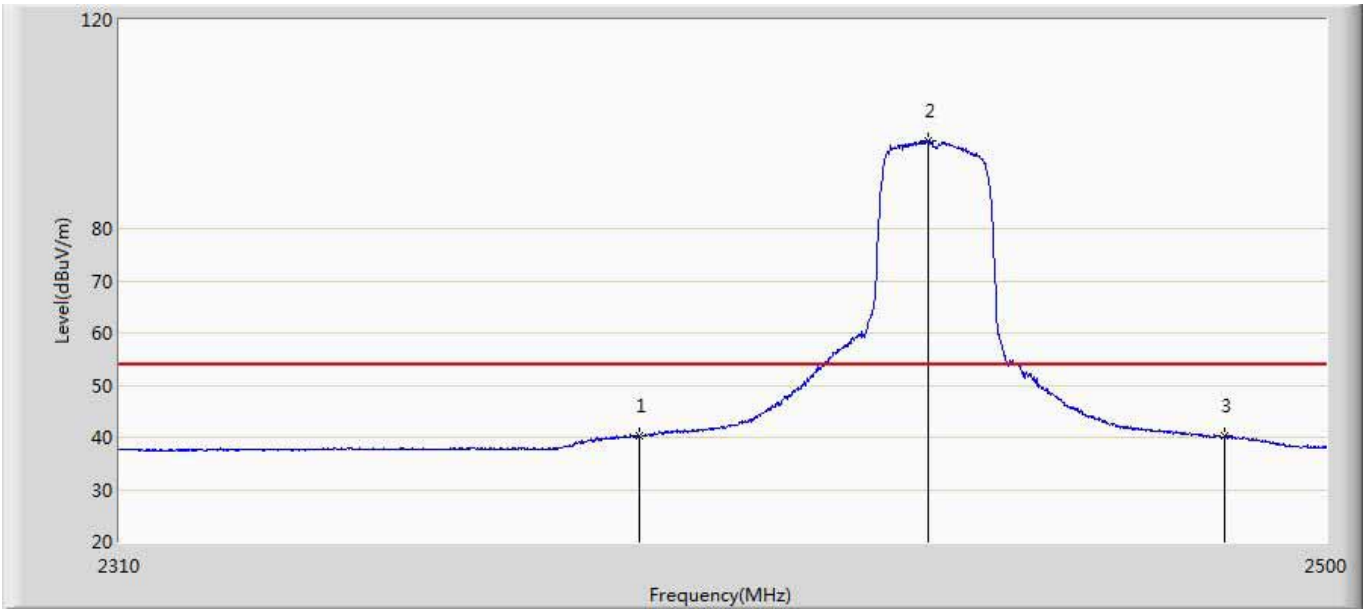
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	52.774	17.317	-1.226	54.000	35.458	AV
2	*	2412.760	99.063	63.578	45.063	54.000	35.484	AV

Profile: 2040625R	Page No.: 1
Engineer: YULIU	
Site: AC5	Time: 2020/07/07 - 07:48
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 2:Transmit at 2437Mhz by 11g	



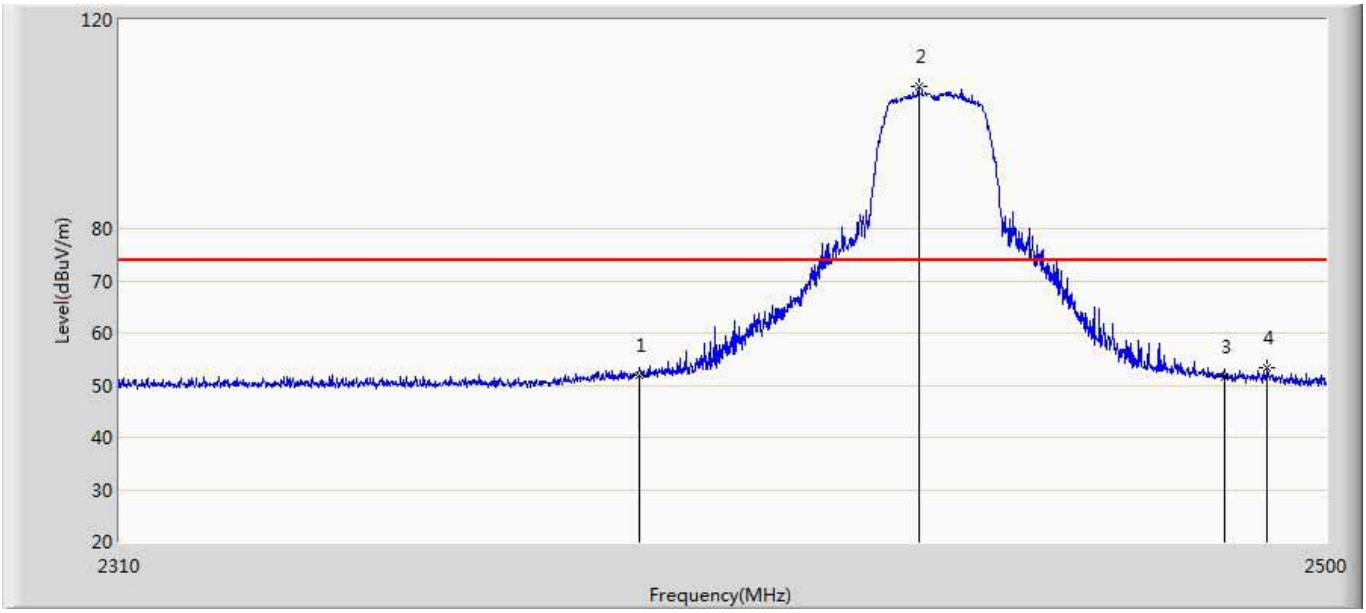
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	52.066	16.609	-21.934	74.000	35.458	PK
2	*	2434.830	106.511	71.000	32.511	74.000	35.511	PK
3		2483.500	51.976	16.458	-22.024	74.000	35.517	PK

Profile: 2040625R	Page No.: 2
Engineer: YULIU	
Site: AC5	Time: 2020/07/07 - 07:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 2:Transmit at 2437Mhz by 11g	



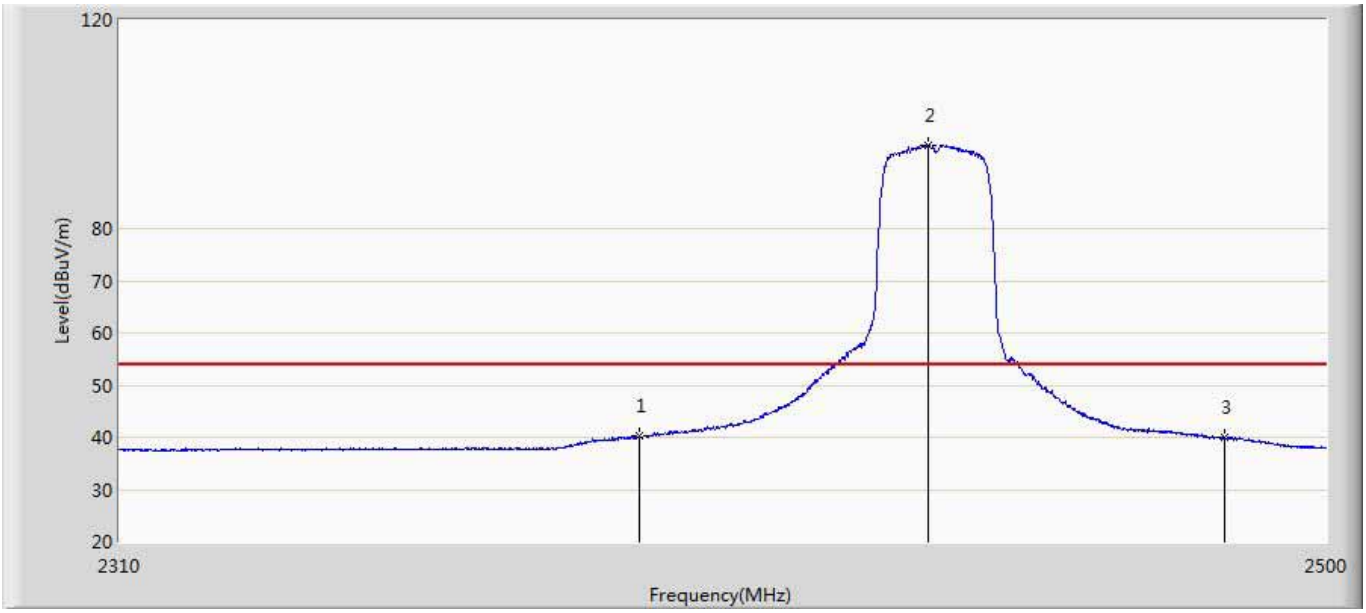
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	40.250	4.793	-13.750	54.000	35.458	AV
2	*	2435.780	96.866	61.357	42.866	54.000	35.509	AV
3		2483.500	40.191	4.673	-13.809	54.000	35.517	AV

Profile: 2040625R	Page No.: 3
Engineer: YULIU	
Site: AC5	Time: 2020/07/07 - 07:53
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 2:Transmit at 2437Mhz by 11g	



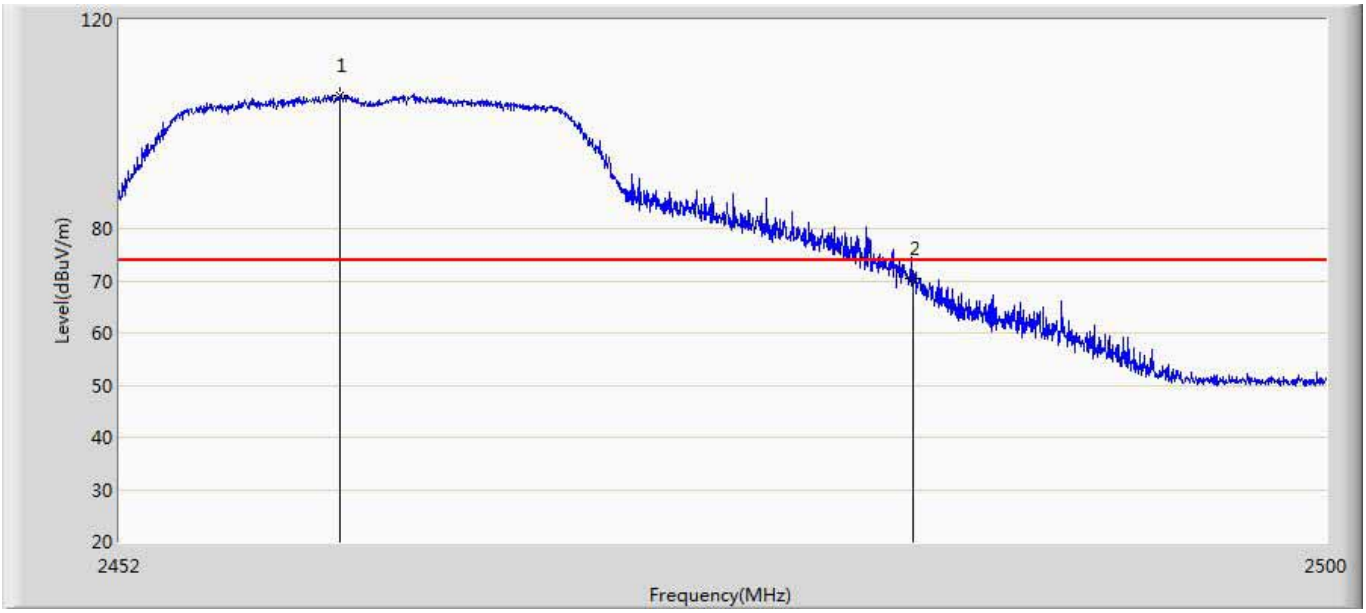
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	52.012	16.555	-21.988	74.000	35.458	PK
2	*	2434.165	107.127	71.615	33.127	74.000	35.512	PK
3		2483.500	51.694	16.176	-22.306	74.000	35.517	PK
4		2490.405	53.473	17.916	-20.527	74.000	35.557	PK

Profile: 2040625R	Page No.: 4
Engineer: YULIU	
Site: AC5	Time: 2020/07/07 - 07:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 2:Transmit at 2437Mhz by 11g	



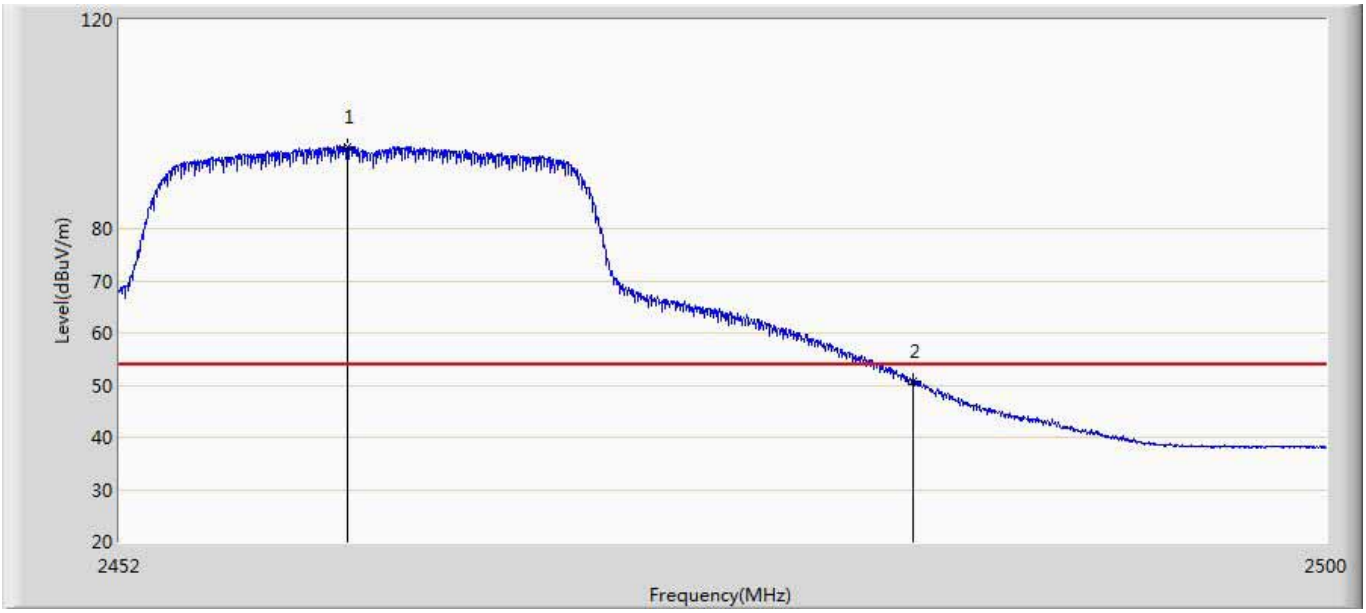
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	40.173	4.716	-13.827	54.000	35.458	AV
2	*	2435.780	95.996	60.487	41.996	54.000	35.509	AV
3		2483.500	39.856	4.338	-14.144	54.000	35.517	AV

Profile: 2040625R	Page No.: 13
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 11:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 2:Transmit at 2462Mhz by 802.11g	



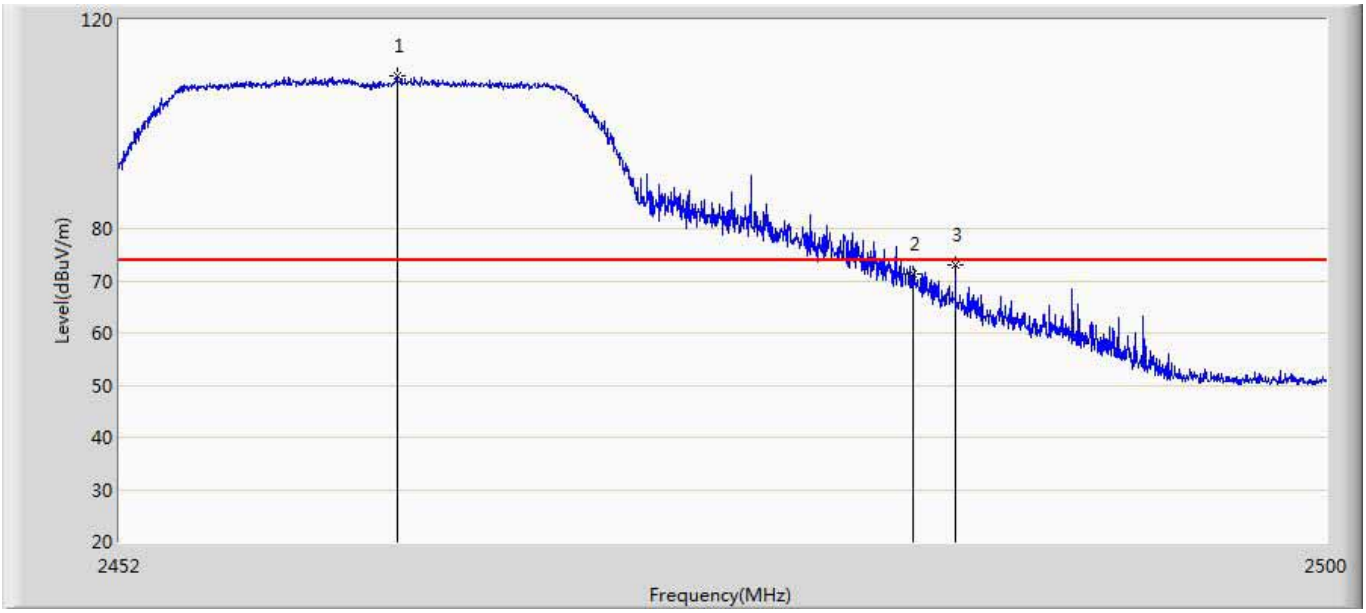
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2460.736	105.642	70.106	31.642	74.000	35.536	PK
2		2483.500	70.296	34.778	-3.704	74.000	35.517	PK

Profile: 2040625R	Page No.: 14
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 11:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 2:Transmit at 2462Mhz by 802.11g	



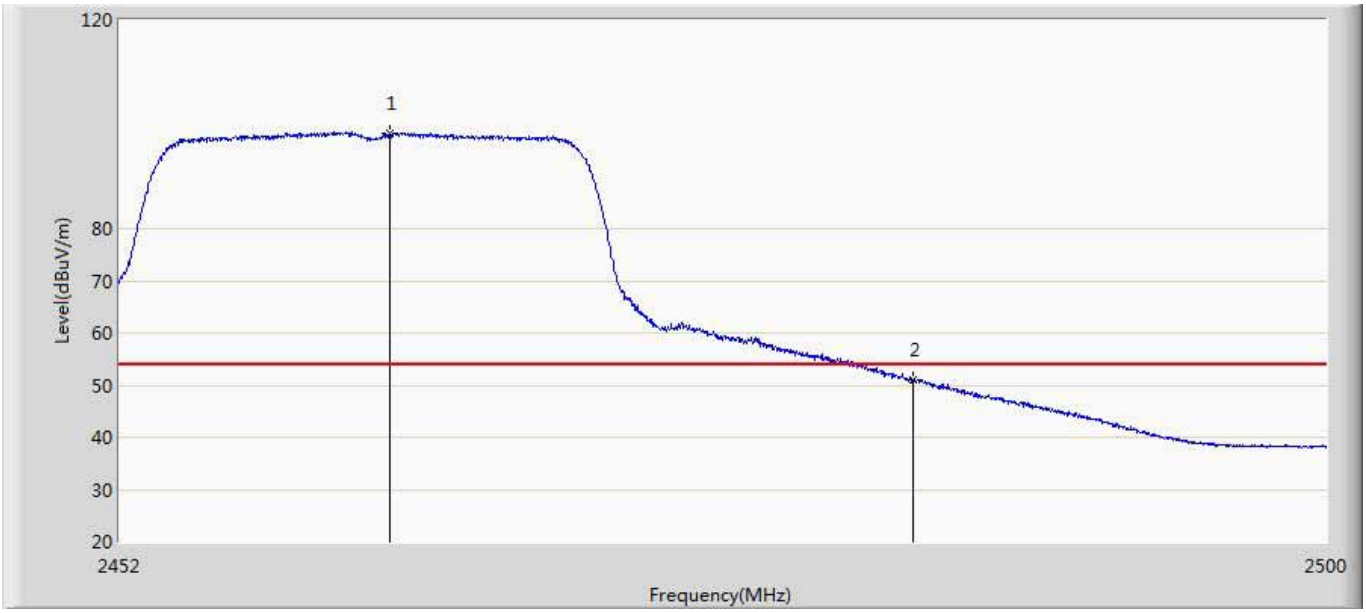
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2461.000	95.651	60.115	41.651	54.000	35.536	AV
2		2483.500	50.842	15.324	-3.158	54.000	35.517	AV

Profile: 2040625R	Page No.: 15
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 11:17
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 2:Transmit at 2462Mhz by 802.11g	



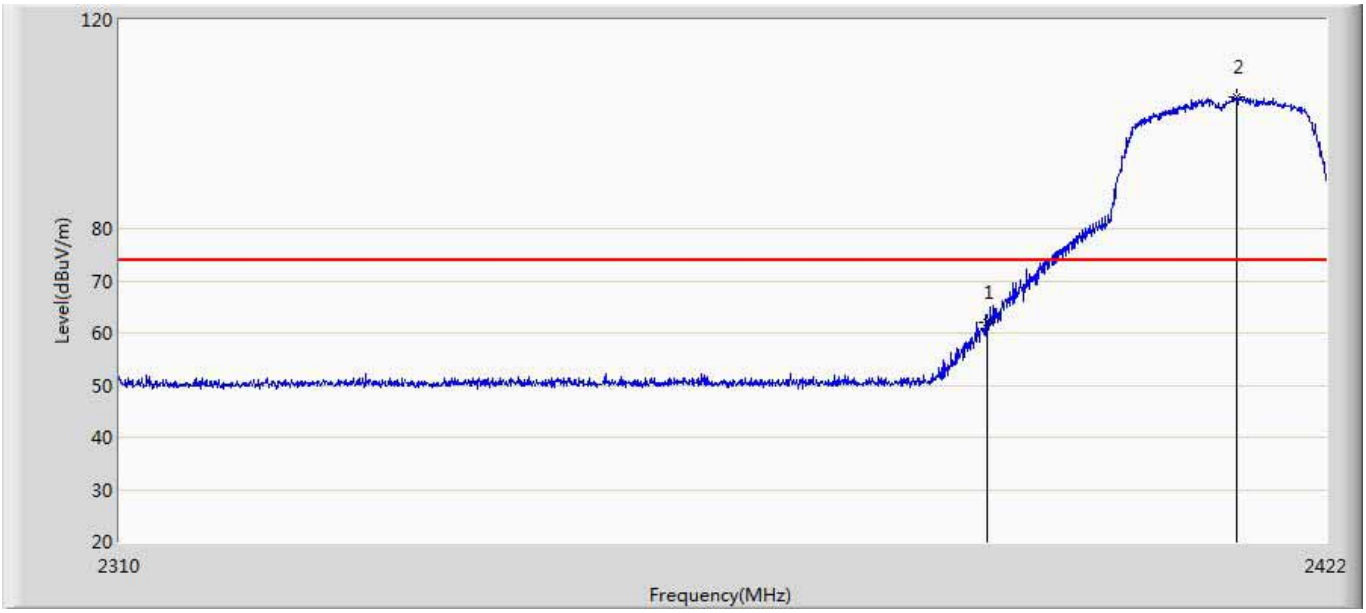
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2462.968	109.392	73.855	35.392	74.000	35.537	PK
2		2483.500	71.269	35.751	-2.731	74.000	35.517	PK
3		2485.168	72.991	37.464	-1.009	74.000	35.527	PK

Profile: 2040625R	Page No.: 16
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 11:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 2:Transmit at 2462Mhz by 802.11g	



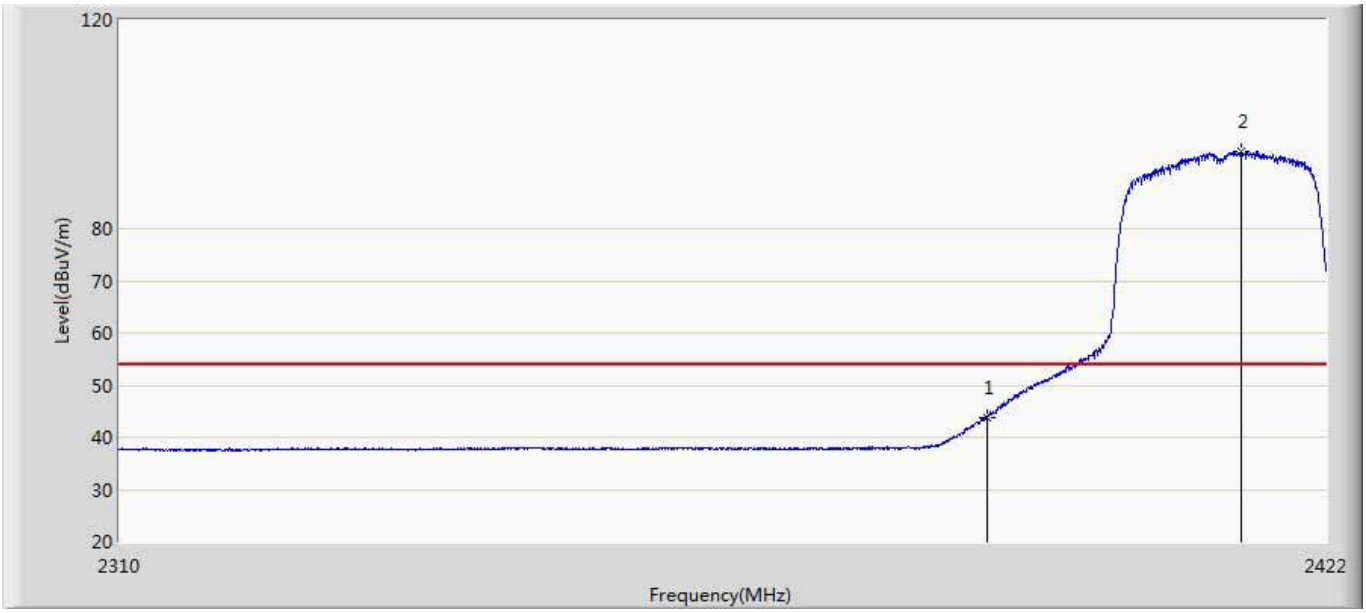
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2462.704	98.268	62.731	44.268	54.000	35.538	AV
2		2483.500	51.102	15.584	-2.898	54.000	35.517	AV

Profile: 2040625R	Page No.: 17
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 11:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 3:Transmit at 2412MHz by 802.11n(20MHz)	



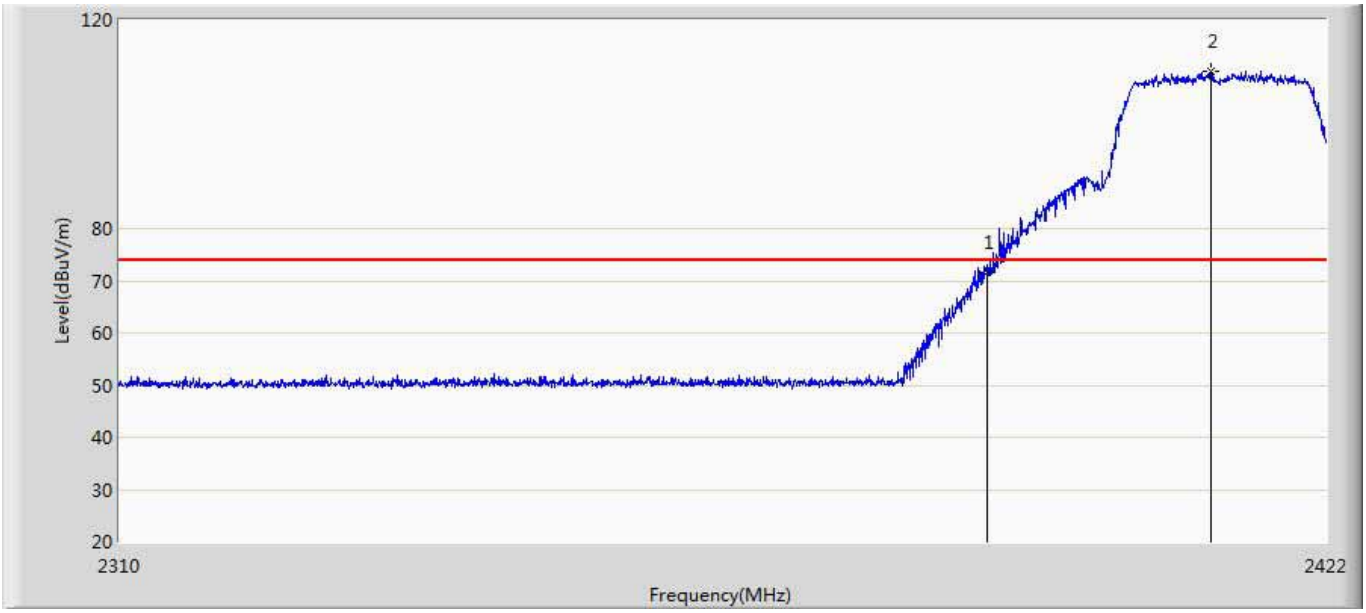
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	61.896	26.439	-12.104	74.000	35.458	PK
2	*	2413.488	105.259	69.772	31.259	74.000	35.487	PK

Profile: 2040625R	Page No.: 18
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 13:37
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 3:Transmit at 2412MHz by 802.11n(20MHz)	



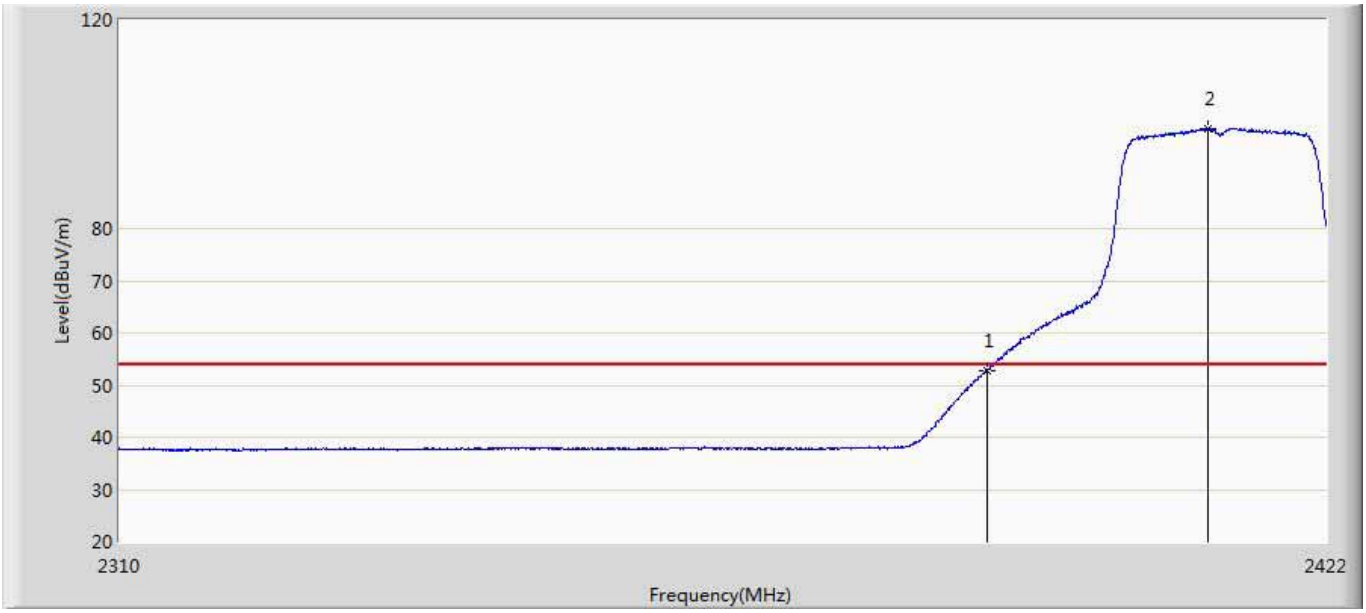
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	43.750	8.293	-10.250	54.000	35.458	AV
2	*	2413.992	94.691	59.203	40.691	54.000	35.488	AV

Profile: 2040625R	Page No.: 19
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 13:38
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 3:Transmit at 2412MHz by 802.11n(20MHz)	



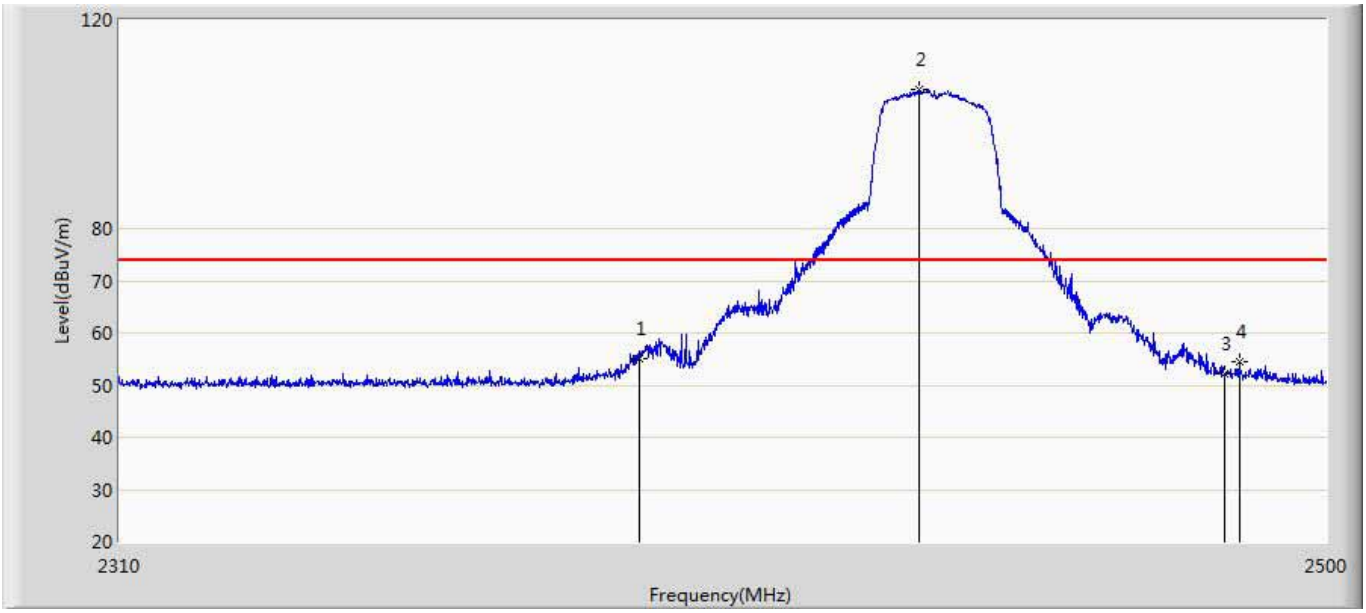
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	71.599	36.142	-2.401	74.000	35.458	PK
2	*	2411.136	110.098	74.617	36.098	74.000	35.481	PK

Profile: 2040625R	Page No.: 20
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 13:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 3:Transmit at 2412MHz by 802.11n(20MHz)	



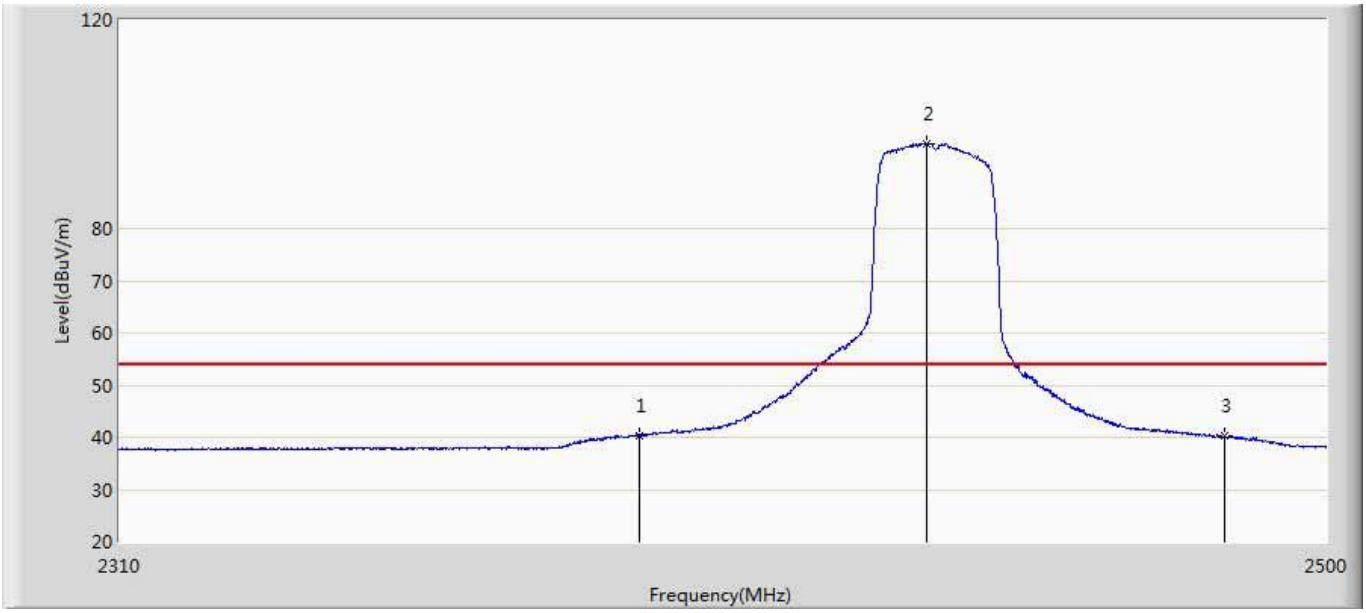
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	52.775	17.318	-1.225	54.000	35.458	AV
2	*	2410.856	99.095	63.615	45.095	54.000	35.480	AV

Profile: 2040625R	Page No.: 5
Engineer: YULIU	
Site: AC5	Time: 2020/07/07 - 07:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 3:Transmit at 2437Mhz by 11n(20MHz)	



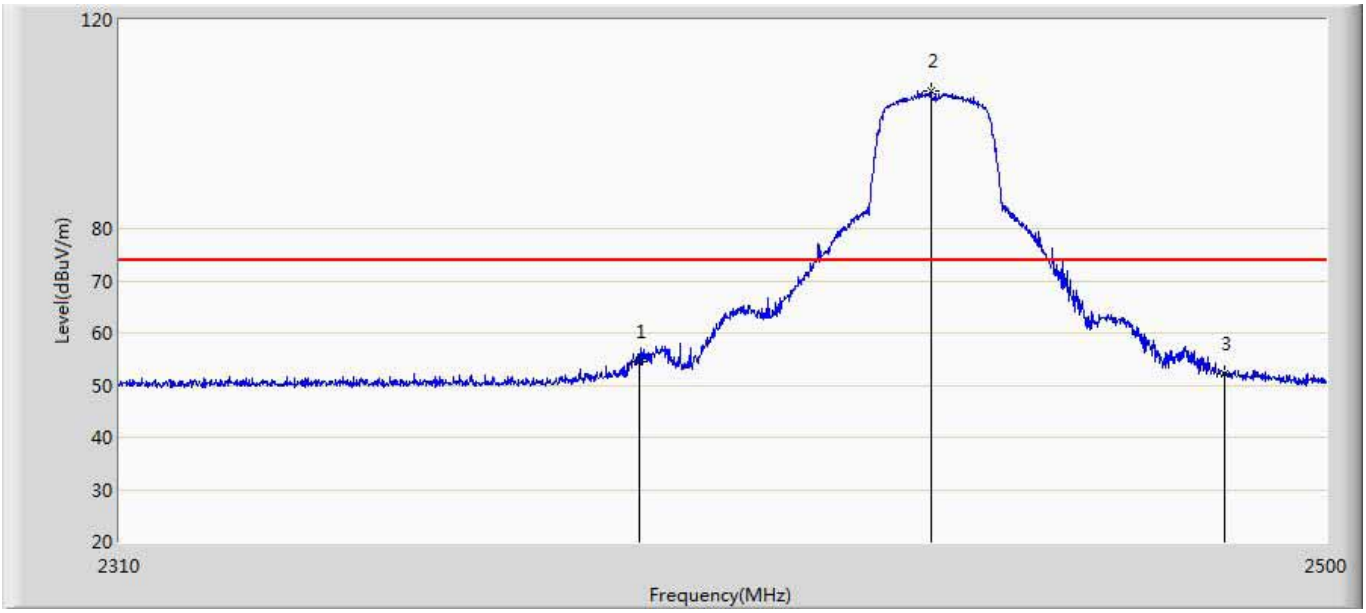
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	55.186	19.729	-18.814	74.000	35.458	PK
2	*	2434.355	106.787	71.275	32.787	74.000	35.511	PK
3		2483.500	52.144	16.626	-21.856	74.000	35.517	PK
4		2485.845	54.548	19.017	-19.452	74.000	35.532	PK

Profile: 2040625R	Page No.: 6
Engineer: YULIU	
Site: AC5	Time: 2020/07/07 - 08:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 3:Transmit at 2437Mhz by 11n(20MHz)	



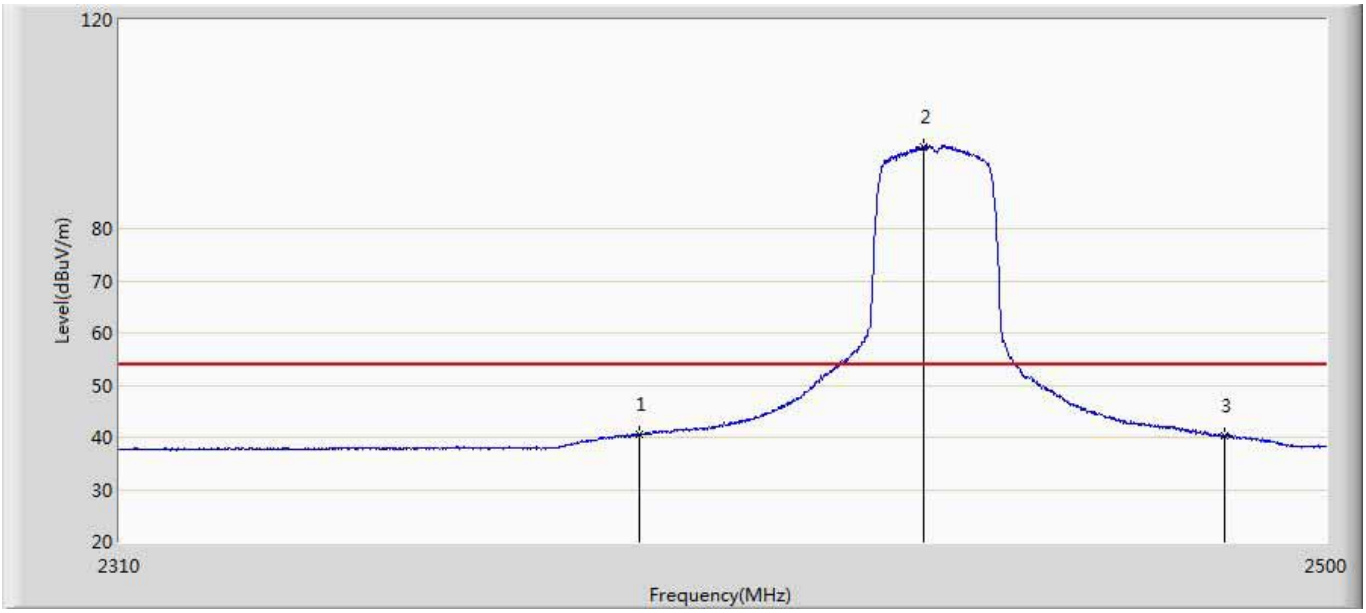
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	40.312	4.855	-13.688	54.000	35.458	AV
2	*	2435.495	96.304	60.794	42.304	54.000	35.510	AV
3		2483.500	40.169	4.651	-13.831	54.000	35.517	AV

Profile: 2040625R	Page No.: 7
Engineer: YULIU	
Site: AC5	Time: 2020/07/07 - 08:03
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 3:Transmit at 2437Mhz by 11n(20MHz)	



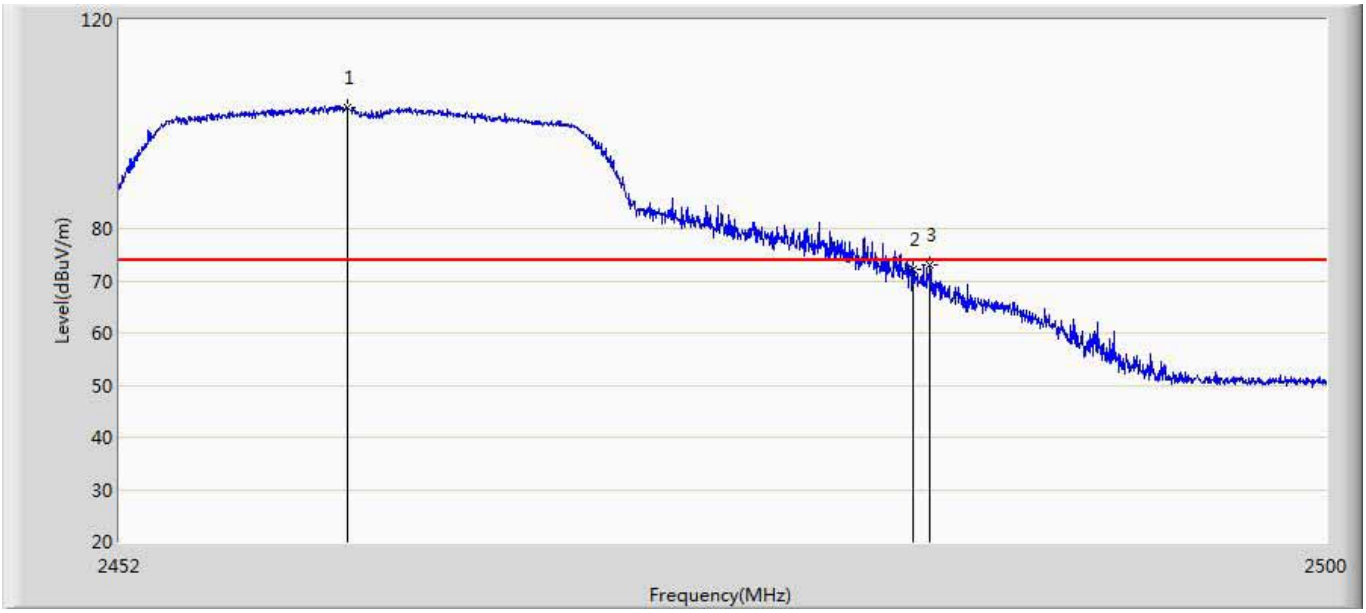
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	54.561	19.104	-19.439	74.000	35.458	PK
2	*	2436.160	106.412	70.904	32.412	74.000	35.509	PK
3		2483.500	52.217	16.699	-21.783	74.000	35.517	PK

Profile: 2040625R	Page No.: 8
Engineer: YULIU	
Site: AC5	Time: 2020/07/07 - 08:05
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 3:Transmit at 2437Mhz by 11n(20MHz)	



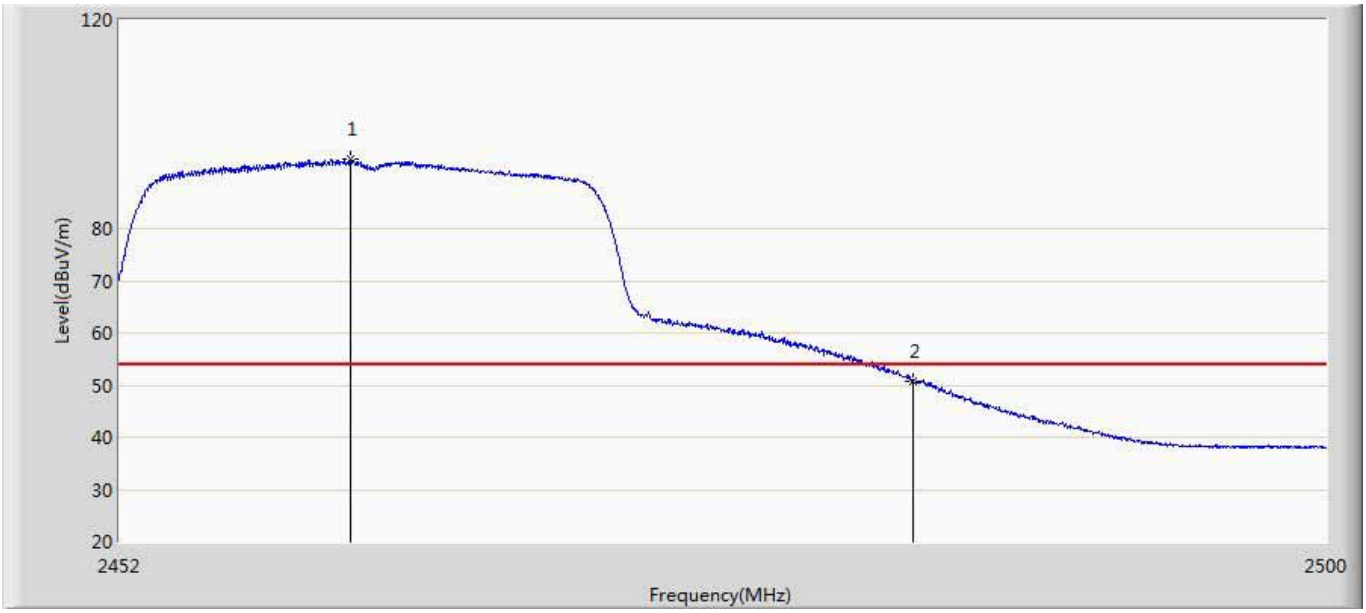
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	40.460	5.003	-13.540	54.000	35.458	AV
2	*	2434.925	95.789	60.278	41.789	54.000	35.511	AV
3		2483.500	40.221	4.703	-13.779	54.000	35.517	AV

Profile: 2040625R	Page No.: 21
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 13:43
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 3:Transmit at 2462MHz by 802.11n(20MHz)	



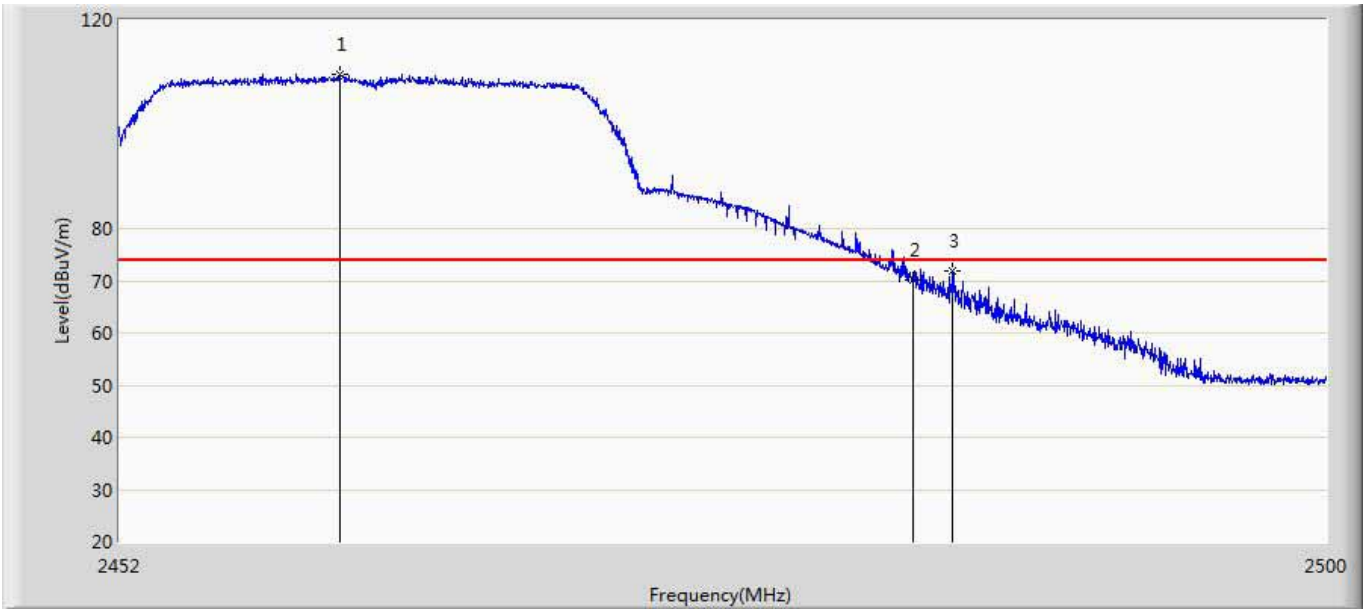
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2461.000	103.221	67.685	29.221	74.000	35.536	PK
2		2483.500	72.120	36.602	-1.880	74.000	35.517	PK
3		2484.160	73.089	37.567	-0.911	74.000	35.521	PK

Profile: 2040625R	Page No.: 22
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 13:46
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 3:Transmit at 2462MHz by 802.11n(20MHz)	



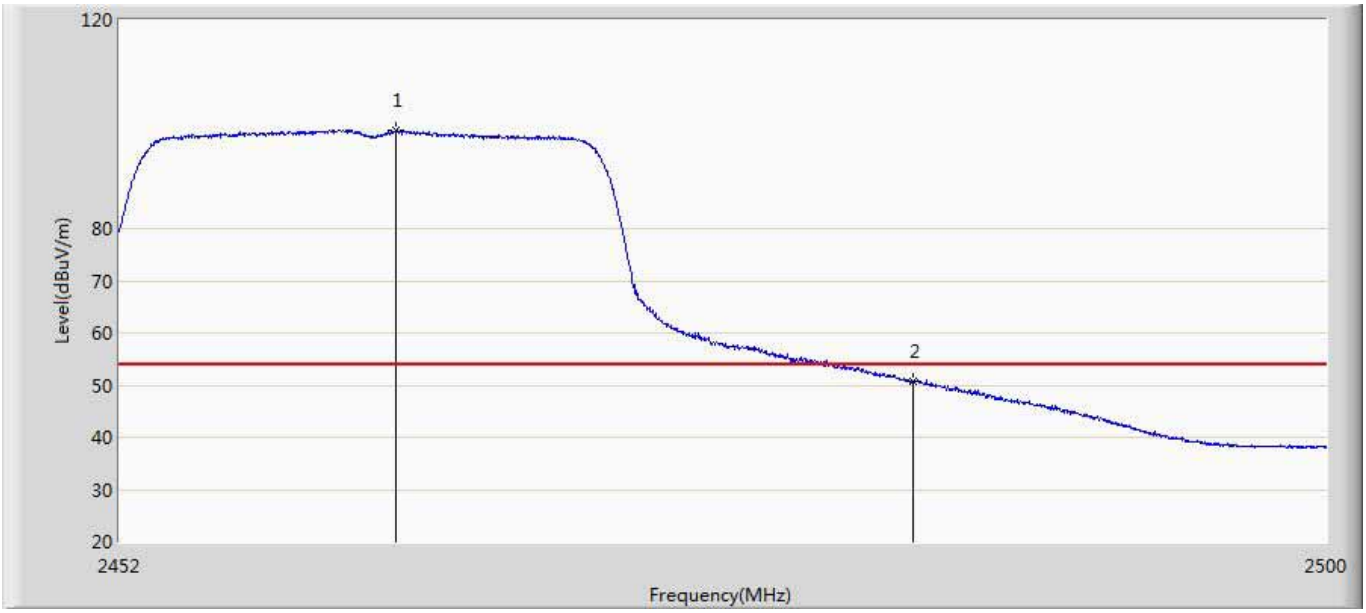
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2461.144	93.210	57.673	39.210	54.000	35.537	AV
2		2483.500	50.702	15.184	-3.298	54.000	35.517	AV

Profile: 2040625R	Page No.: 23
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 13:47
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 3:Transmit at 2462MHz by 802.11n(20MHz)	



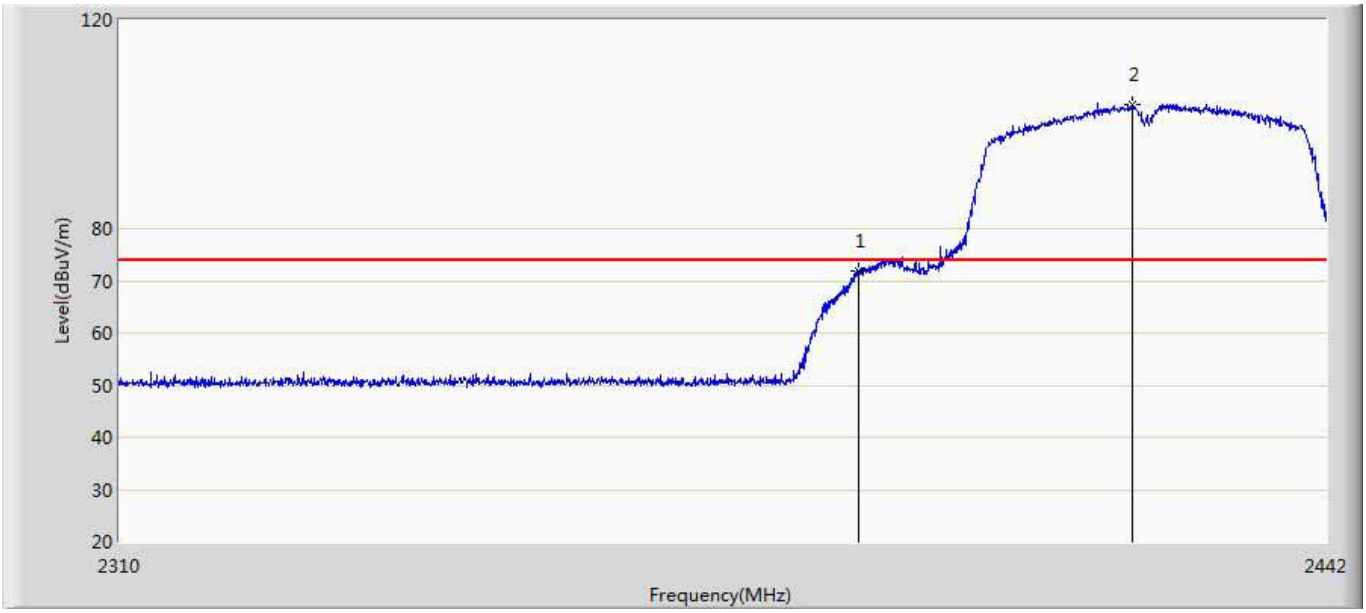
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2460.688	109.480	73.944	35.480	74.000	35.536	PK
2		2483.500	70.117	34.599	-3.883	74.000	35.517	PK
3		2485.048	71.995	36.468	-2.005	74.000	35.527	PK

Profile: 2040625R	Page No.: 24
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 13:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 3:Transmit at 2462MHz by 802.11n(20MHz)	



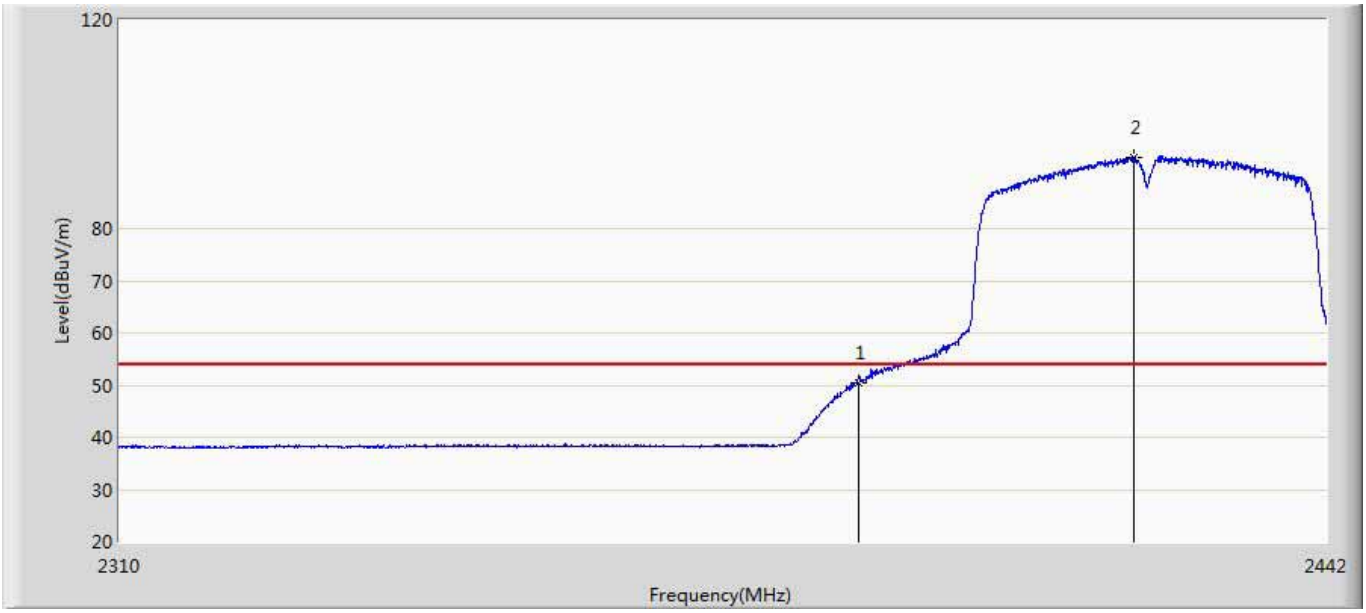
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2462.944	98.933	63.396	44.933	54.000	35.537	AV
2		2483.500	50.699	15.181	-3.301	54.000	35.517	AV

Profile: 2040625R	Page No.: 25
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 13:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 4:Transmit at 2422MHz by 802.11n(40MHz)	



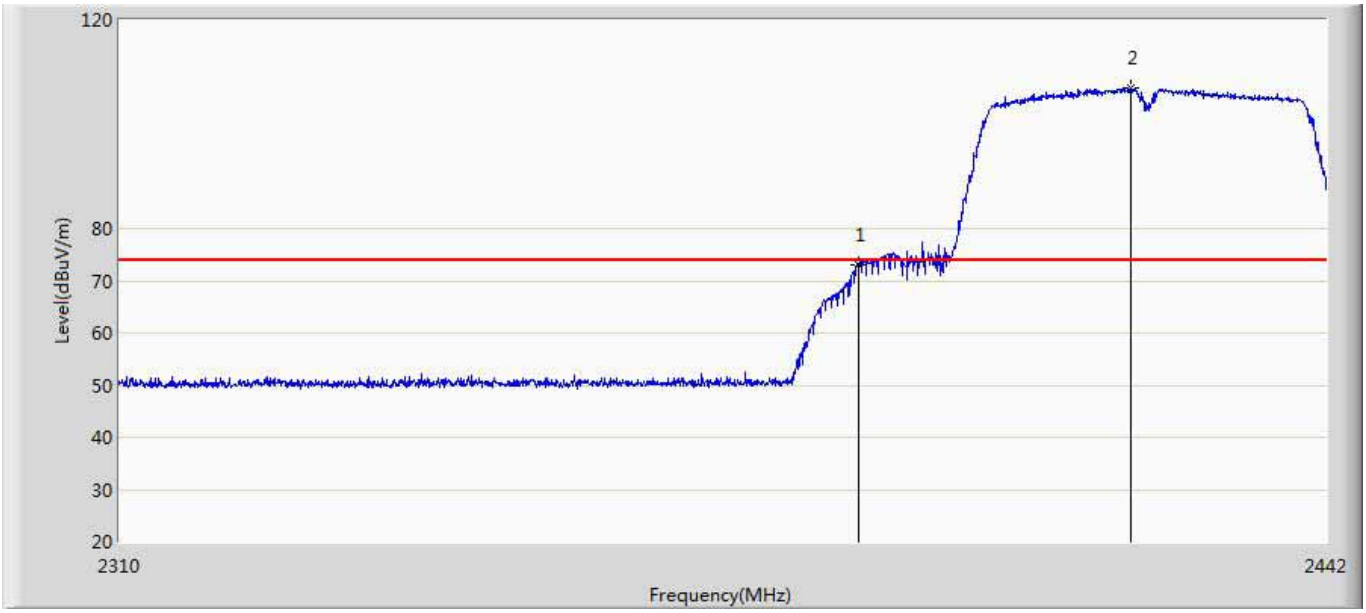
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	71.814	36.357	-2.186	74.000	35.458	PK
2	*	2420.352	103.625	68.121	29.625	74.000	35.504	PK

Profile: 2040625R	Page No.: 26
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 14:03
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 4:Transmit at 2422MHz by 802.11n(40MHz)	



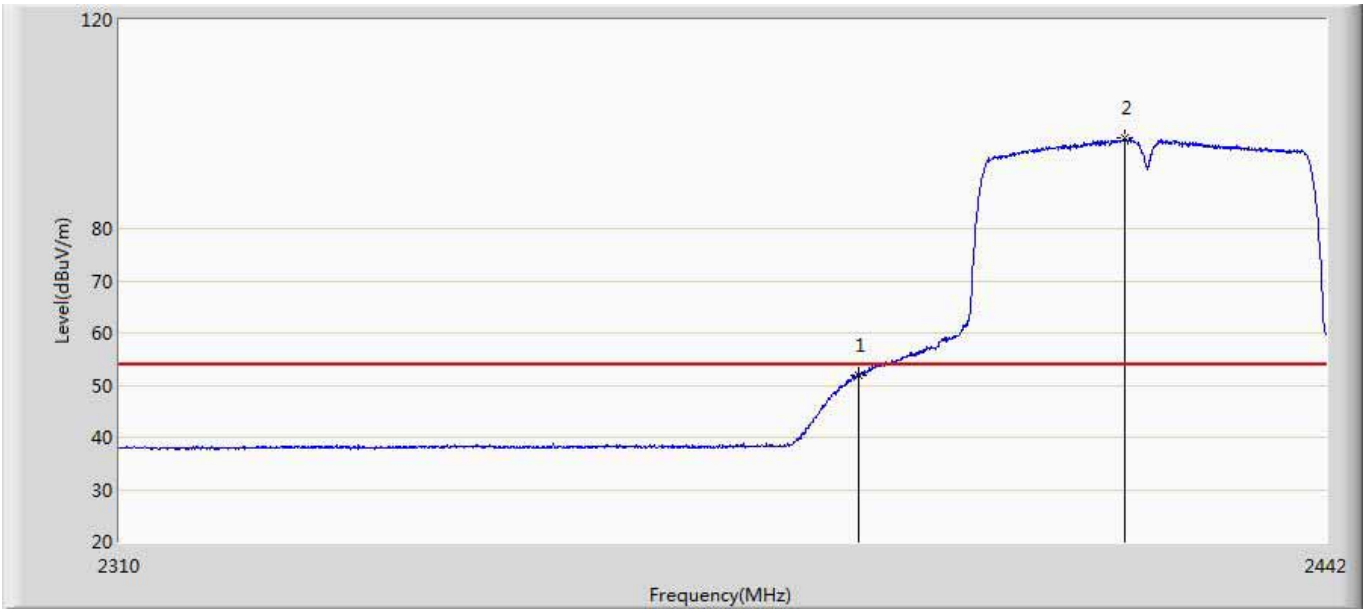
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	50.476	15.019	-3.524	54.000	35.458	AV
2	*	2420.550	93.715	58.210	39.715	54.000	35.504	AV

Profile: 2040625R	Page No.: 27
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 14:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 4:Transmit at 2422MHz by 802.11n(40MHz)	



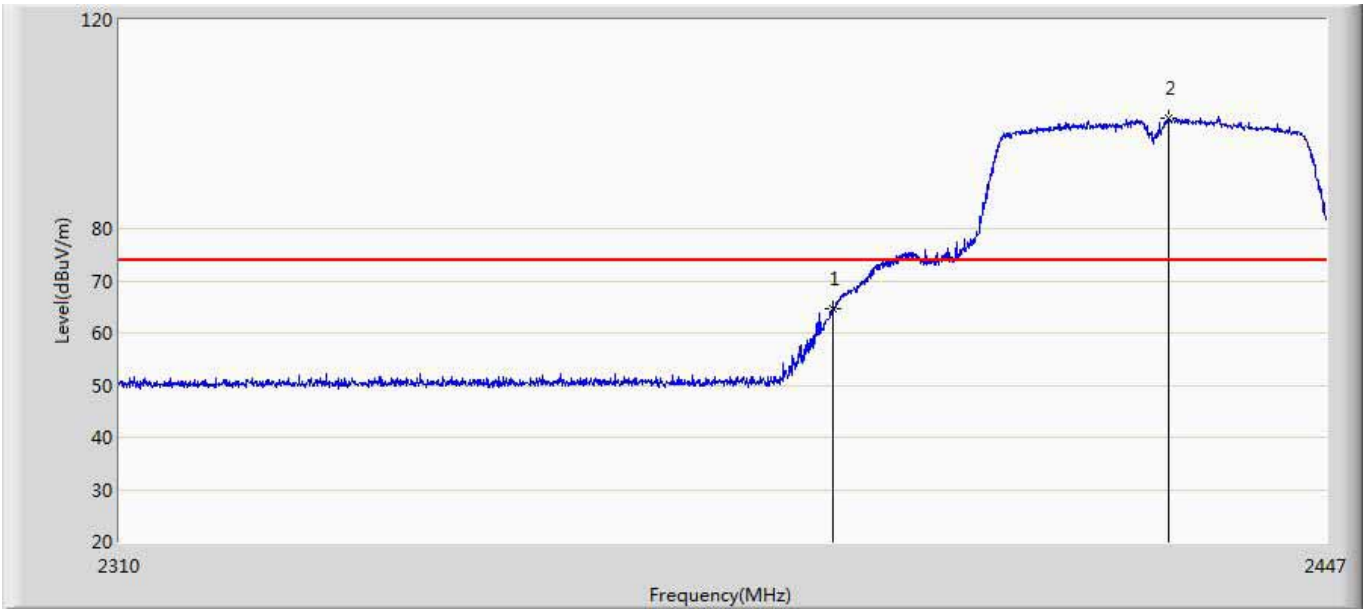
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	73.056	37.599	-0.944	74.000	35.458	PK
2	*	2420.220	106.842	71.338	32.842	74.000	35.504	PK

Profile: 2040625R	Page No.: 28
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 14:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 4:Transmit at 2422MHz by 802.11n(40MHz)	



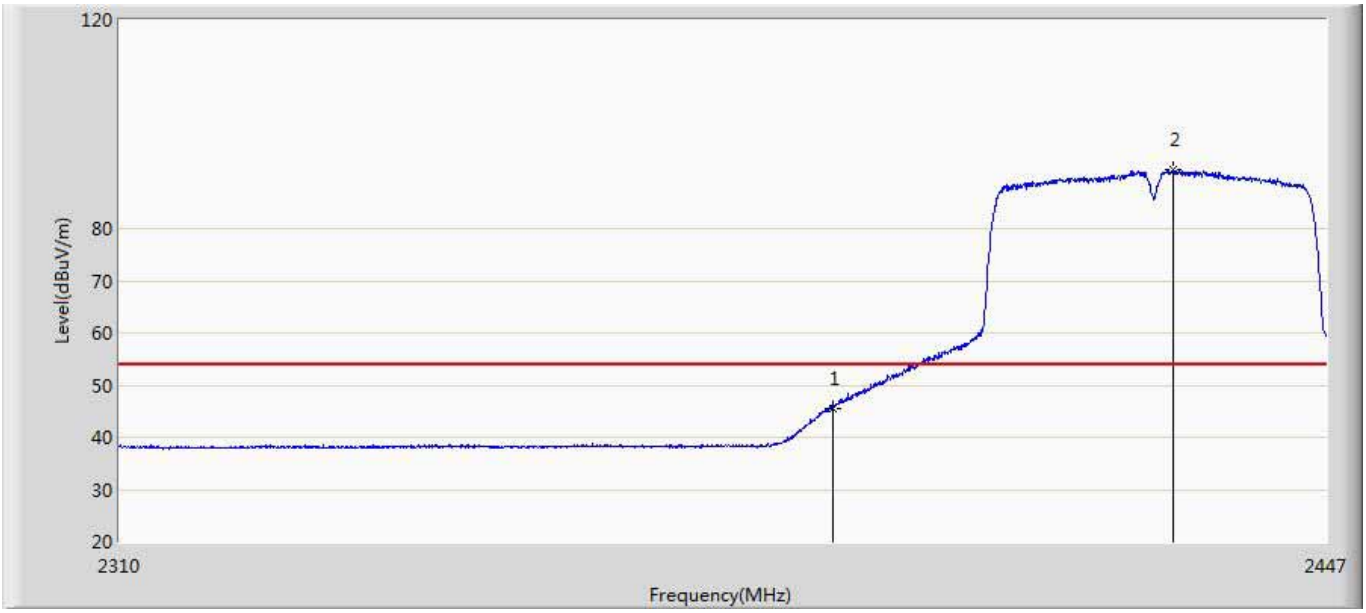
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	51.836	16.379	-2.164	54.000	35.458	AV
2	*	2419.560	97.262	61.760	43.262	54.000	35.502	AV

Profile: 2040625R	Page No.: 33
Engineer: YULIU	
Site: AC5	Time: 2020/05/14 - 18:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 4:Transmit at 2427MHz by 11n(40MHz)	



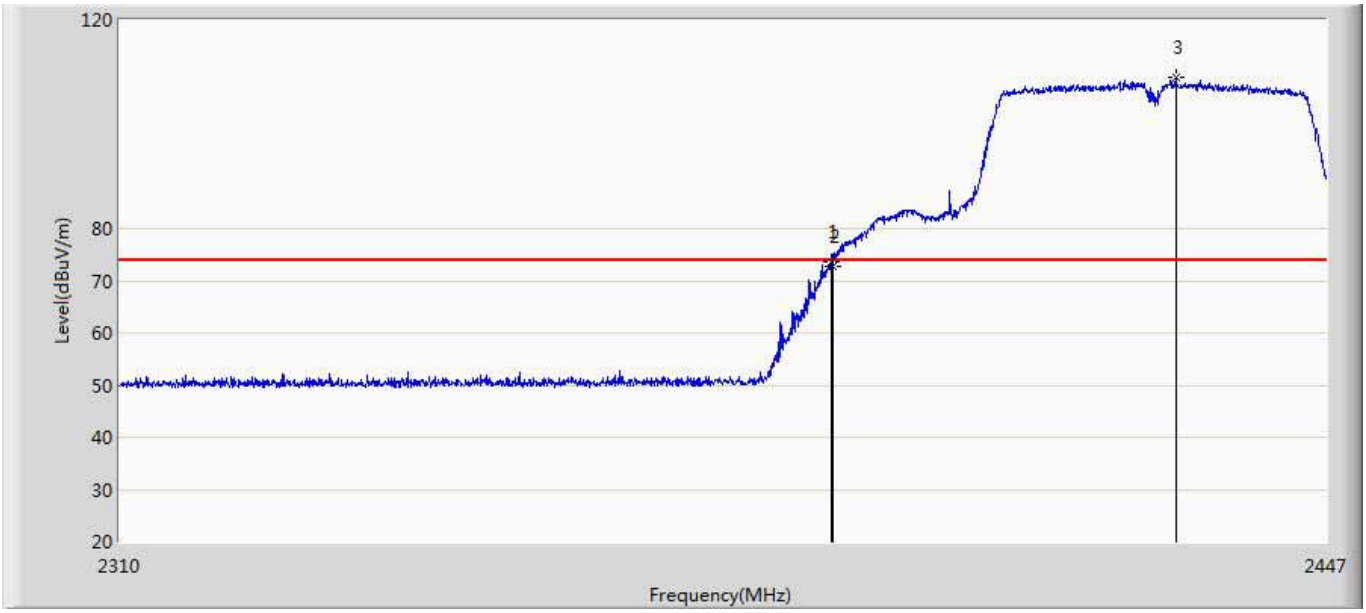
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	64.688	29.231	-9.312	74.000	35.458	PK
2	*	2428.642	101.243	65.721	27.243	74.000	35.523	PK

Profile: 2040625R	Page No.: 34
Engineer: YULIU	
Site: AC5	Time: 2020/05/14 - 18:17
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 4:Transmit at 2427MHz by 11n(40MHz)	



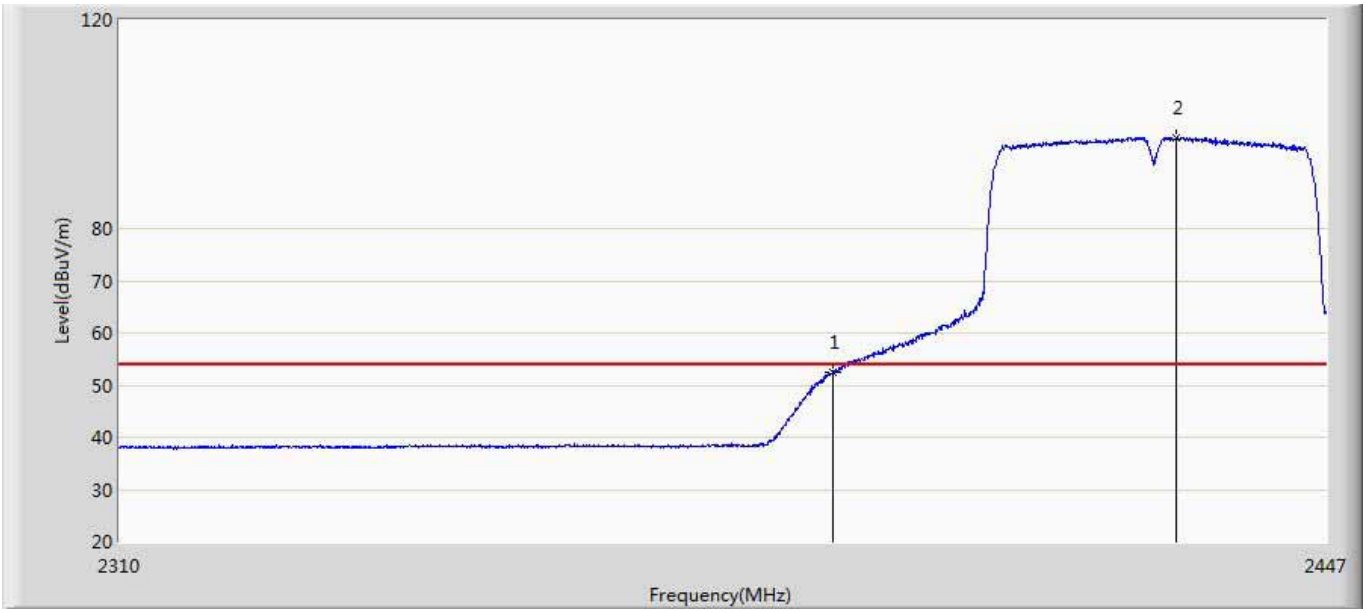
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	45.615	10.158	-8.385	54.000	35.458	AV
2	*	2429.190	91.319	55.798	37.319	54.000	35.522	AV

Profile: 2040625R	Page No.: 35
Engineer: YULIU	
Site: AC5	Time: 2020/05/14 - 18:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 4:Transmit at 2427MHz by 11n(40MHz)	



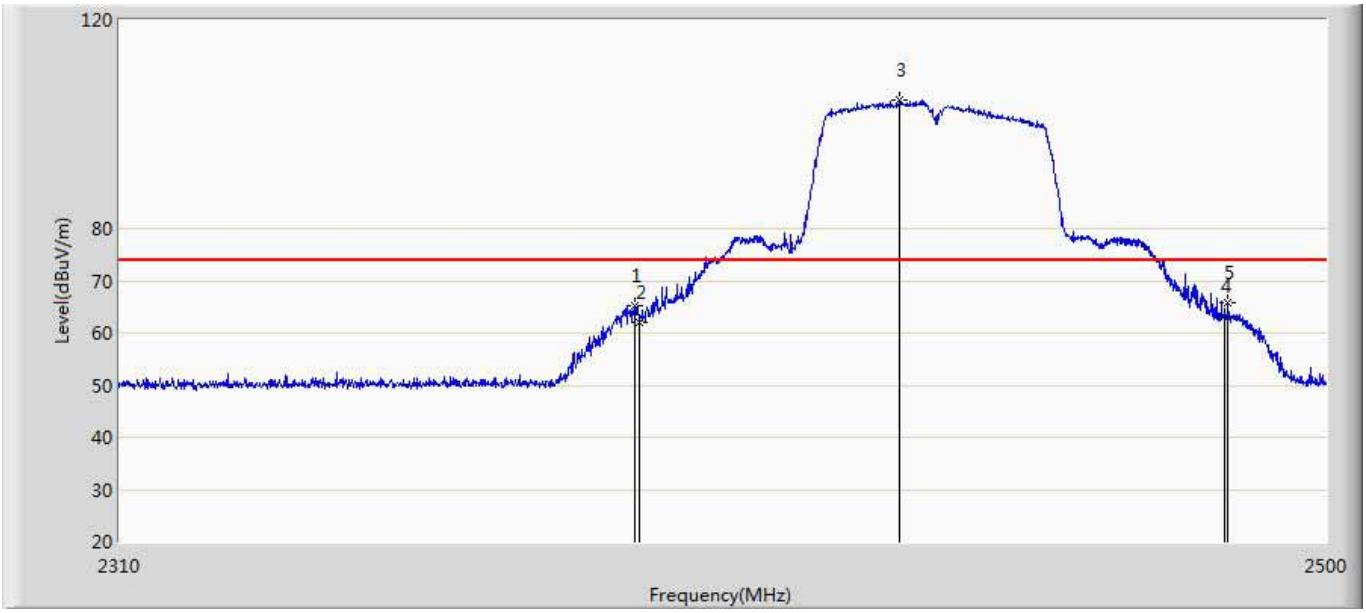
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2389.871	73.545	38.088	-0.455	74.000	35.458	PK
2		2390.000	72.860	37.403	-1.140	74.000	35.458	PK
3	*	2429.532	108.878	73.357	34.878	74.000	35.520	PK

Profile: 2040625R	Page No.: 36
Engineer: YULIU	
Site: AC5	Time: 2020/05/14 - 18:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 4:Transmit at 2427MHz by 11n(40MHz)	



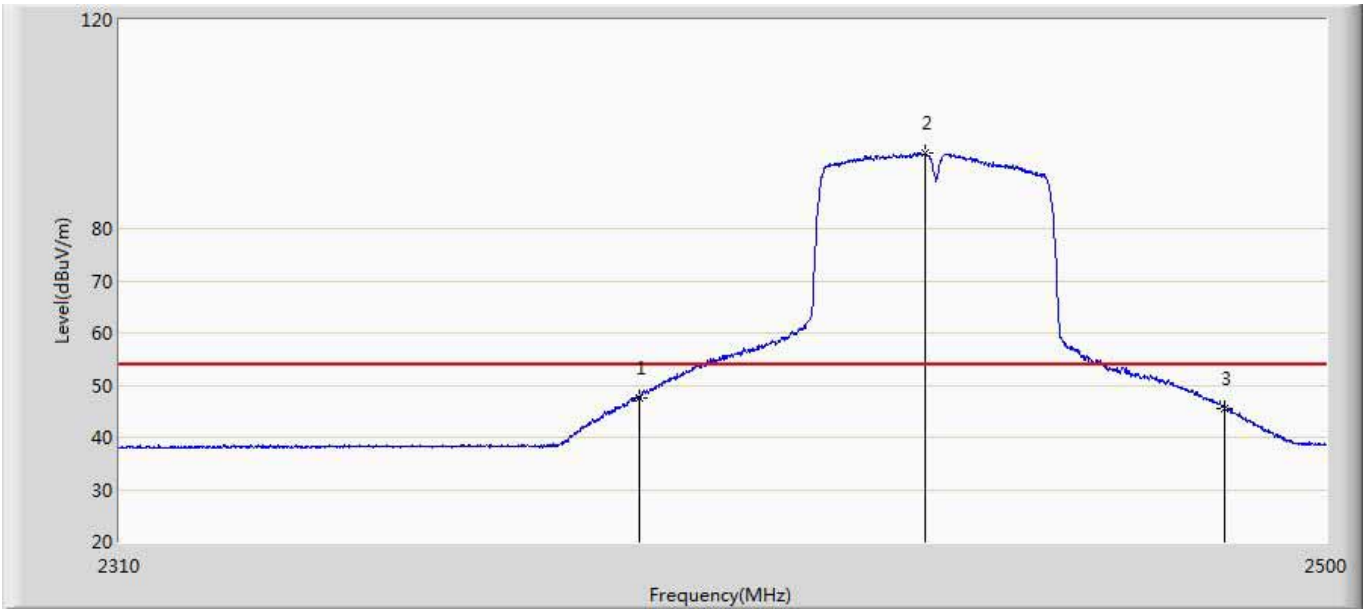
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	52.536	17.079	-1.464	54.000	35.458	AV
2	*	2429.532	97.518	61.997	43.518	54.000	35.520	AV

Profile: 2040625R	Page No.: 41
Engineer: YULIU	
Site: AC5	Time: 2020/07/08 - 11:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: MEMOR K	Power: 3.8 Vdc
Note: Mode 4:Transmit at 2437Mhz by 802.11n(40MHz)	



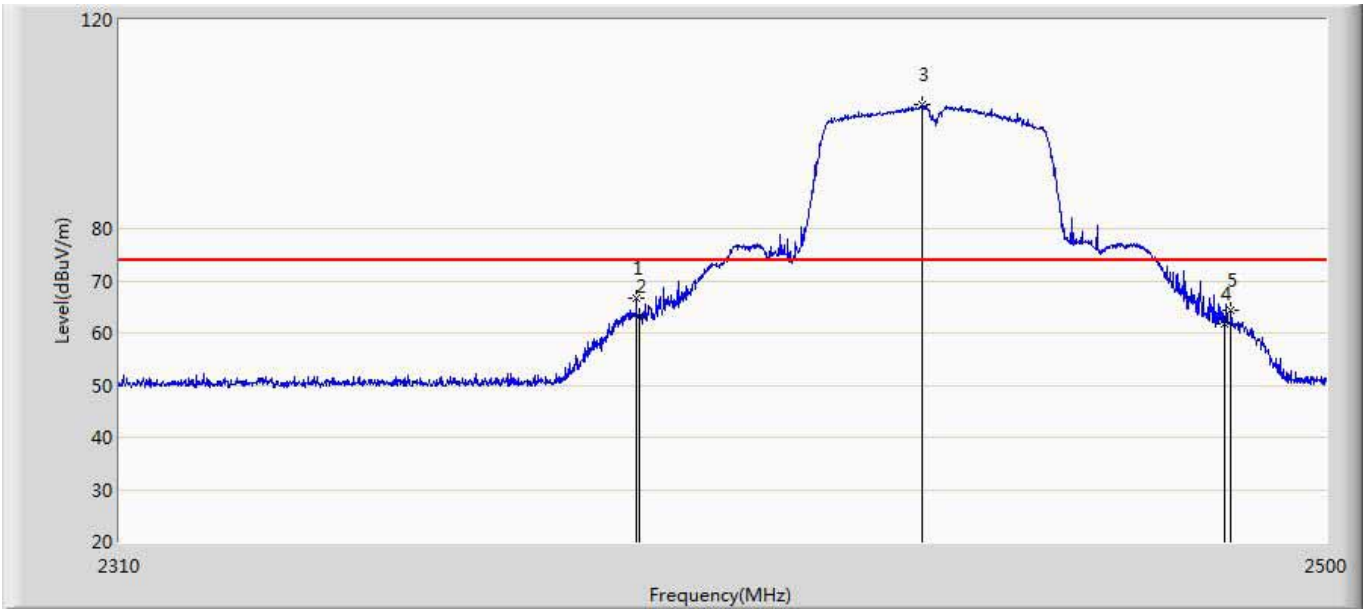
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2389.420	65.233	29.776	-8.767	74.000	35.457	PK
2		2390.000	62.130	26.673	-11.870	74.000	35.458	PK
3	*	2431.220	104.694	69.176	30.694	74.000	35.518	PK
4		2483.500	63.202	27.684	-10.798	74.000	35.517	PK
5		2484.040	65.892	30.371	-8.108	74.000	35.521	PK

Profile: 2040625R	Page No.: 42
Engineer: YULIU	
Site: AC5	Time: 2020/07/08 - 12:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: MEMOR K	Power: 3.8 Vdc
Note: Mode 4:Transmit at 2437Mhz by 802.11n(40MHz)	



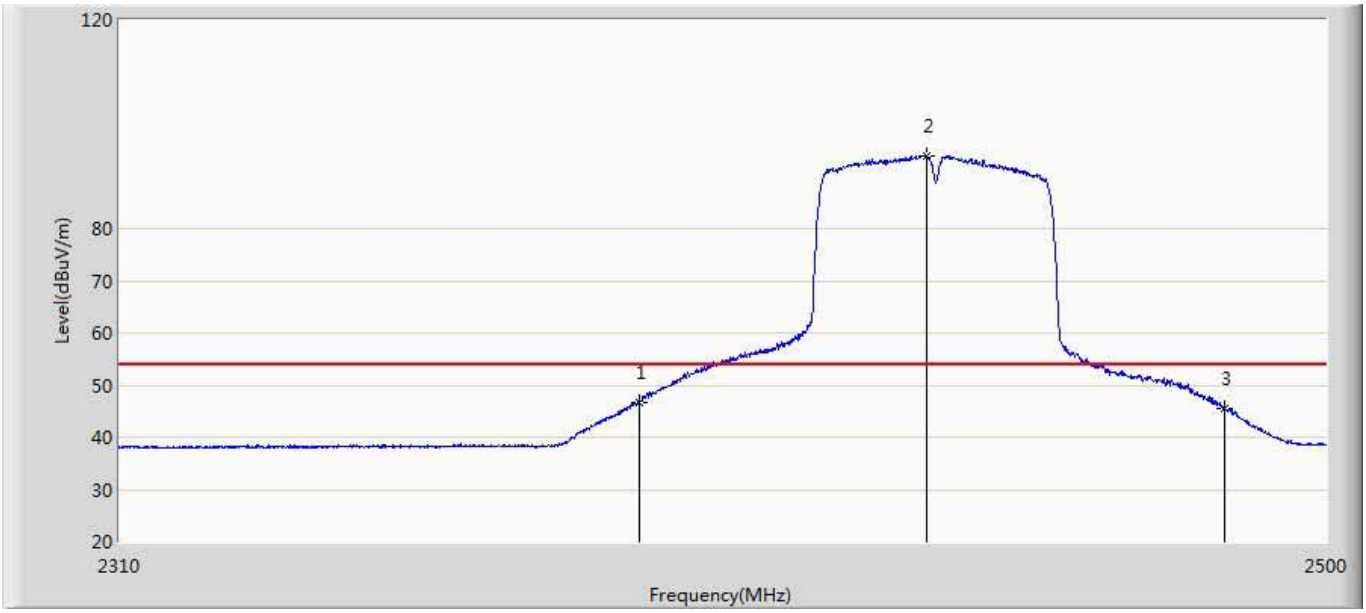
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	47.630	12.173	-6.370	54.000	35.458	AV
2	*	2435.305	94.386	58.876	40.386	54.000	35.510	AV
3		2483.500	45.622	10.104	-8.378	54.000	35.517	AV

Profile: 2040625R	Page No.: 43
Engineer: YULIU	
Site: AC5	Time: 2020/07/08 - 12:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: MEMOR K	Power: 3.8 Vdc
Note: Mode 4:Transmit at 2437Mhz by 802.11n(40MHz)	



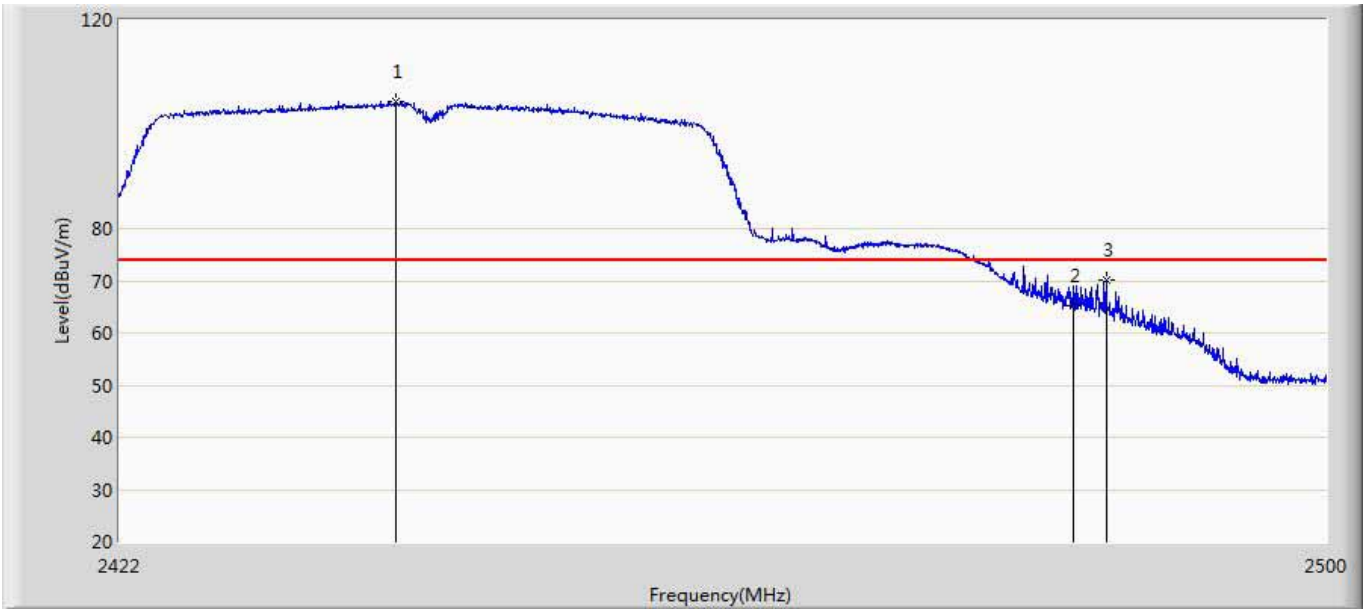
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2389.610	66.554	31.097	-7.446	74.000	35.457	PK
2		2390.000	63.220	27.763	-10.780	74.000	35.458	PK
3	*	2434.640	103.888	68.377	29.888	74.000	35.511	PK
4		2483.500	61.727	26.209	-12.273	74.000	35.517	PK
5		2484.515	64.277	28.753	-9.723	74.000	35.523	PK

Profile: 2040625R	Page No.: 44
Engineer: YULIU	
Site: AC5	Time: 2020/07/08 - 12:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: MEMOR K	Power: 3.8 Vdc
Note: Mode 4:Transmit at 2437Mhz by 802.11n(40MHz)	



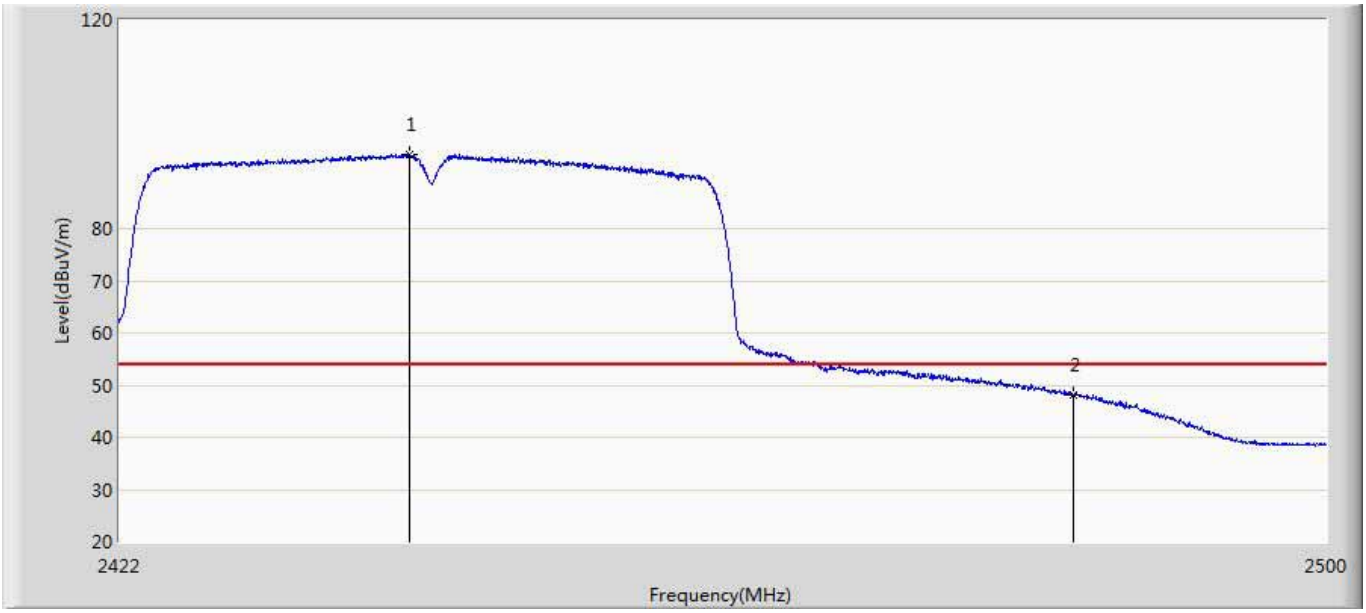
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	46.711	11.254	-7.289	54.000	35.458	AV
2	*	2435.590	93.810	58.301	39.810	54.000	35.510	AV
3		2483.500	45.473	9.955	-8.527	54.000	35.517	AV

Profile: 2040625R	Page No.: 45
Engineer: YULIU	
Site: AC5	Time: 2020/07/08 - 12:07
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: MEMOR K	Power: 3.8 Vdc
Note: Mode 4:Transmit at 2442Mhz by 802.11n(40MHz)	



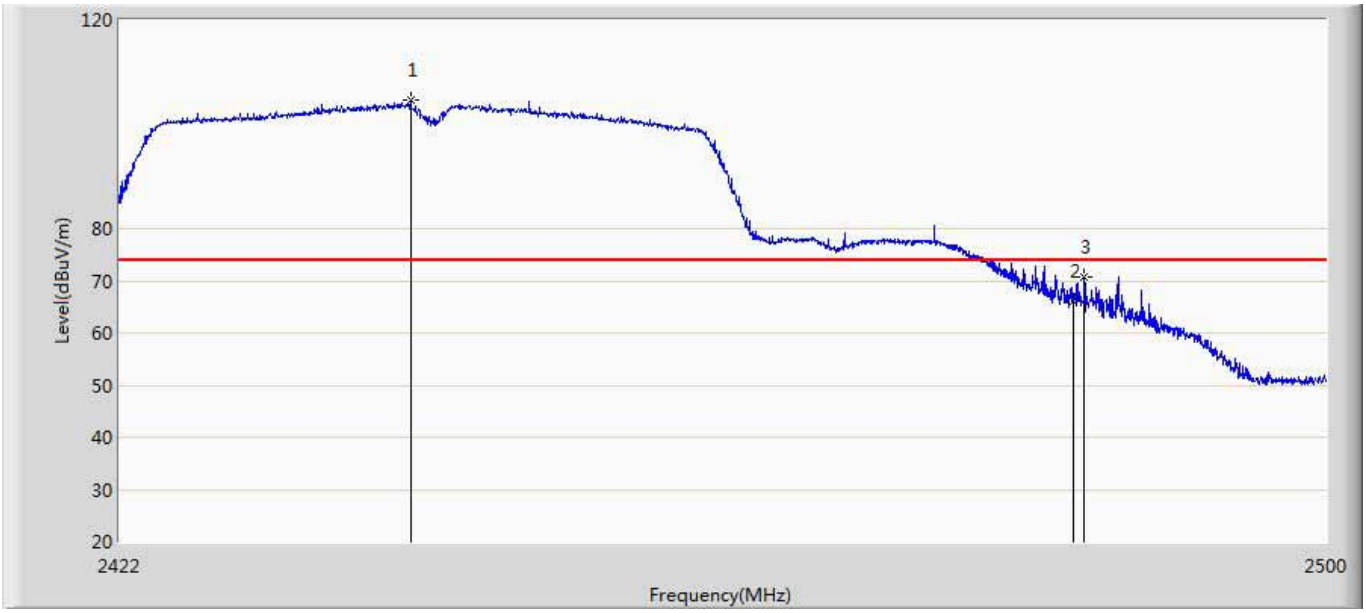
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2439.706	104.335	68.833	30.335	74.000	35.502	PK
2		2483.500	65.141	29.623	-8.859	74.000	35.517	PK
3		2485.609	70.224	34.694	-3.776	74.000	35.530	PK

Profile: 2040625R	Page No.: 46
Engineer: YULIU	
Site: AC5	Time: 2020/07/08 - 12:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: MEMOR K	Power: 3.8 Vdc
Note: Mode 4:Transmit at 2442Mhz by 802.11n(40MHz)	



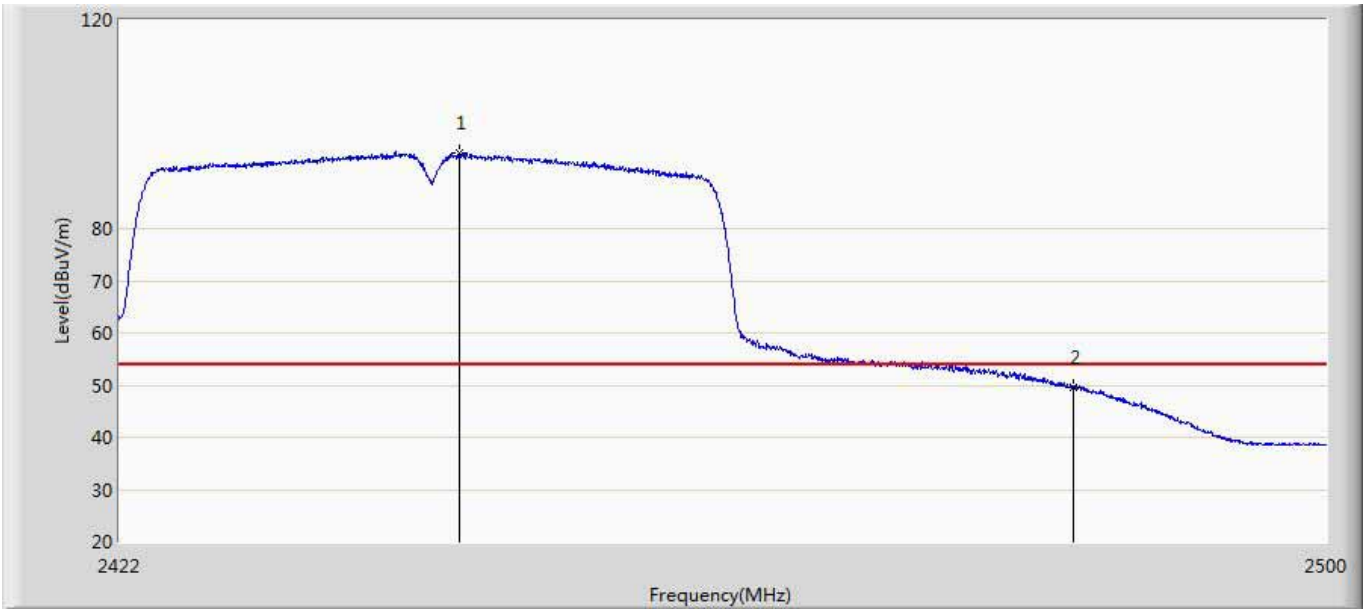
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2440.525	94.127	58.627	40.127	54.000	35.500	AV
2		2483.500	48.056	12.538	-5.944	54.000	35.517	AV

Profile: 2040625R	Page No.: 47
Engineer: YULIU	
Site: AC5	Time: 2020/07/08 - 12:12
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: MEMOR K	Power: 3.8 Vdc
Note: Mode 4:Transmit at 2442Mhz by 802.11n(40MHz)	



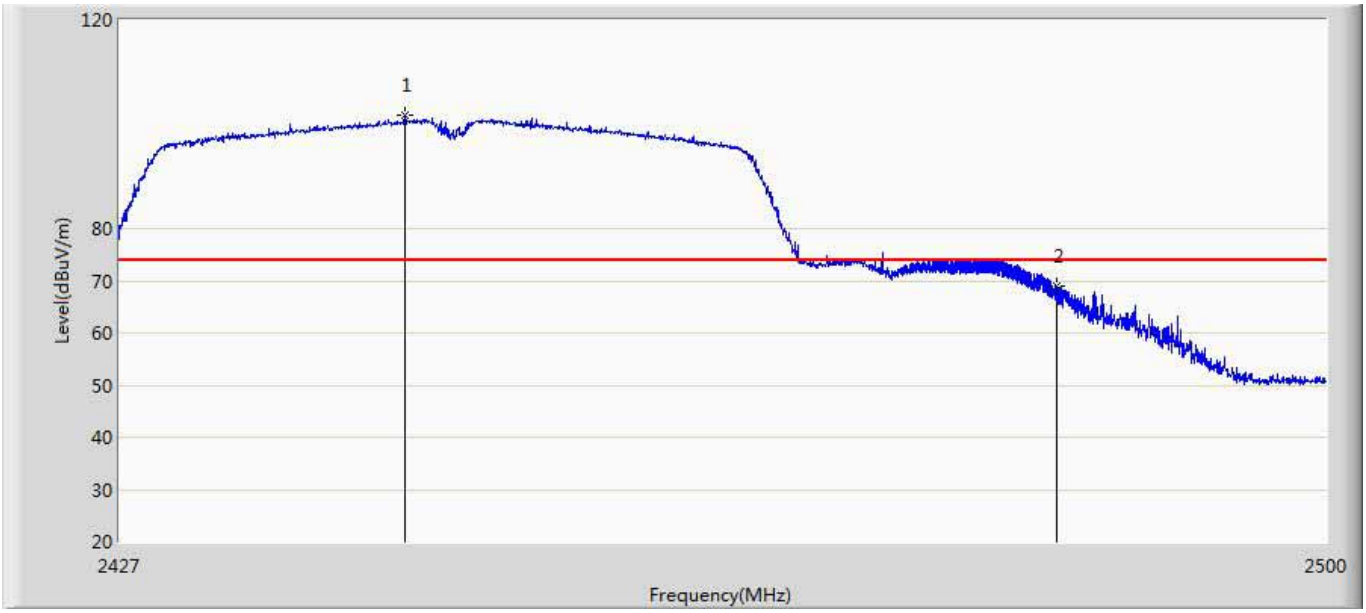
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2440.603	104.592	69.092	30.592	74.000	35.500	PK
2		2483.500	65.949	30.431	-8.051	74.000	35.517	PK
3		2484.205	70.733	35.211	-3.267	74.000	35.522	PK

Profile: 2040625R	Page No.: 48
Engineer: YULIU	
Site: AC5	Time: 2020/07/08 - 12:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: MEMOR K	Power: 3.8 Vdc
Note: Mode 4:Transmit at 2442Mhz by 802.11n(40MHz)	



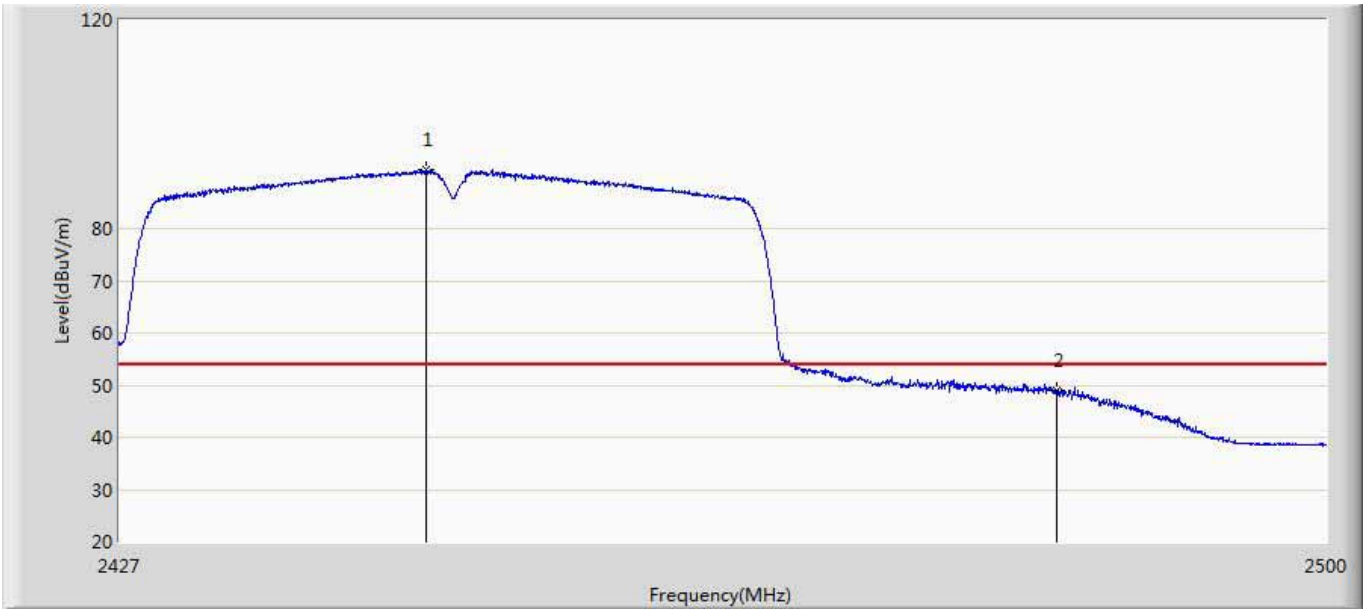
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2443.762	94.398	58.904	40.398	54.000	35.495	AV
2		2483.500	49.492	13.974	-4.508	54.000	35.517	AV

Profile: 2040625R	Page No.: 37
Engineer: YULIU	
Site: AC5	Time: 2020/05/14 - 18:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 4:Transmit at 2447MHz by 11n(40MHz)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2444.118	101.667	66.173	27.667	74.000	35.493	PK
2		2483.500	68.856	33.338	-5.144	74.000	35.517	PK

Profile: 2040625R	Page No.: 38
Engineer: YULIU	
Site: AC5	Time: 2020/05/14 - 18:29
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 4:Transmit at 2447MHz by 11n(40MHz)	

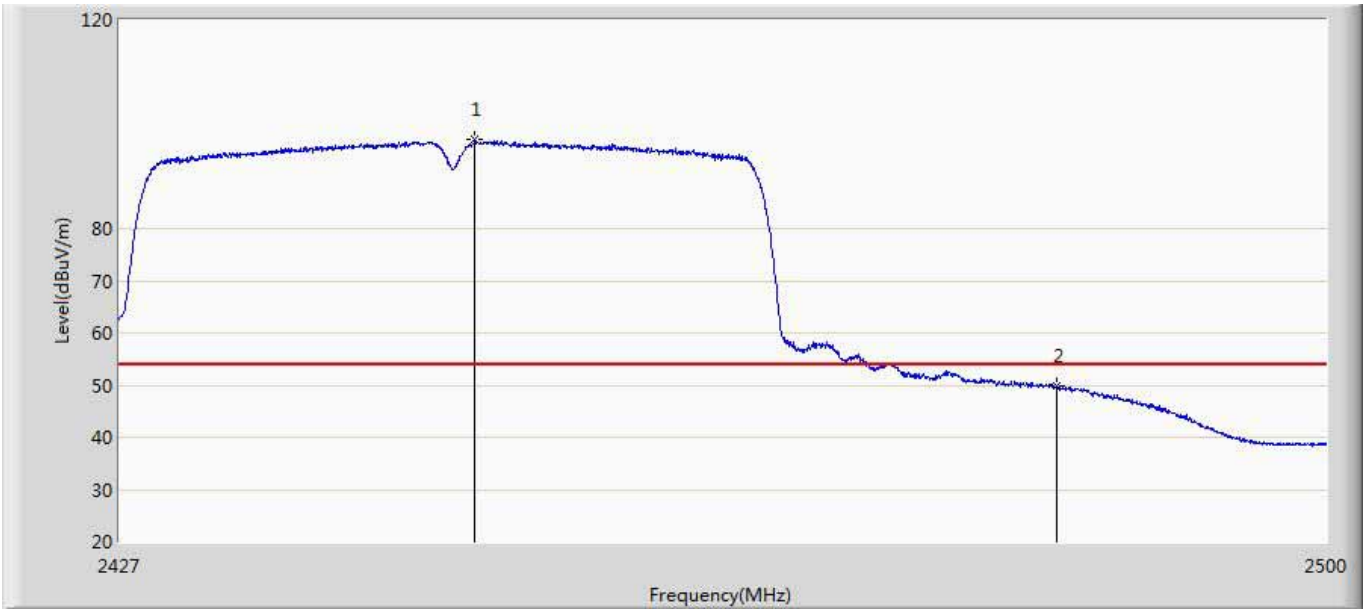


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2445.323	91.309	55.816	37.309	54.000	35.493	AV
2		2483.500	49.119	13.601	-4.881	54.000	35.517	AV

Profile: 2040625R	Page No.: 39
Engineer: YULIU	
Site: AC5	Time: 2020/05/14 - 18:31
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 4:Transmit at 2447MHz by 11n(40MHz)	

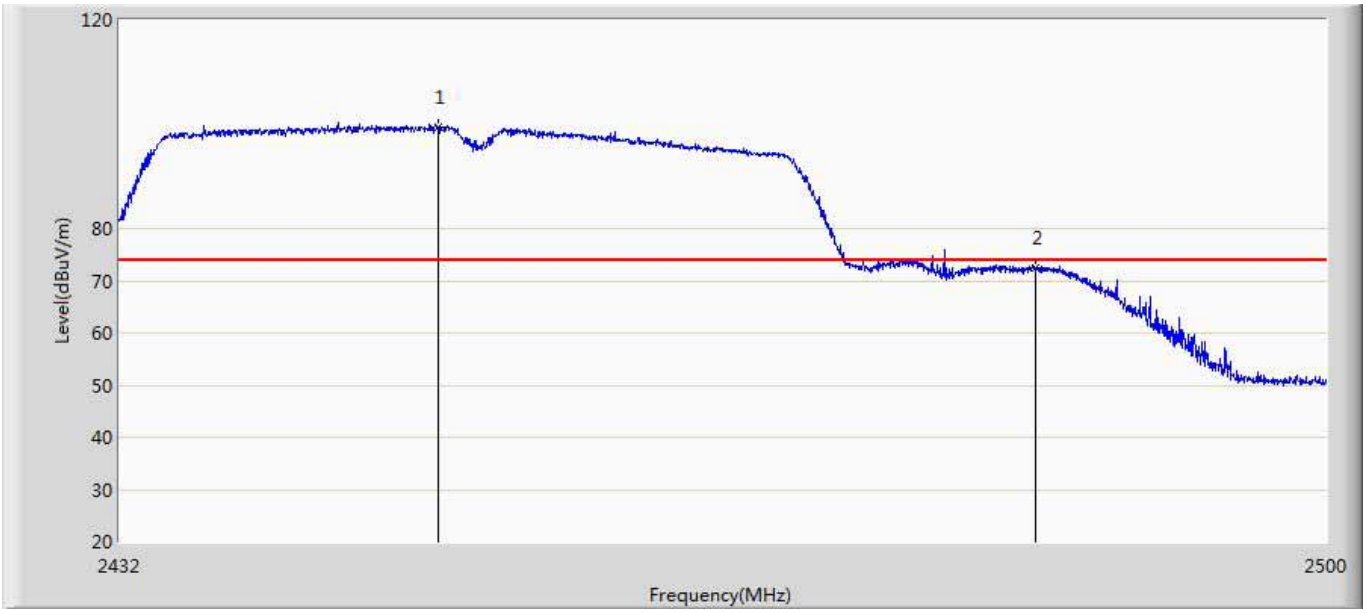
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	72.294	36.776	-1.706	74.000	35.517	PK

Profile: 2040625R	Page No.: 40
Engineer: YULIU	
Site: AC5	Time: 2020/05/14 - 18:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 4:Transmit at 2447MHz by 11n(40MHz)	



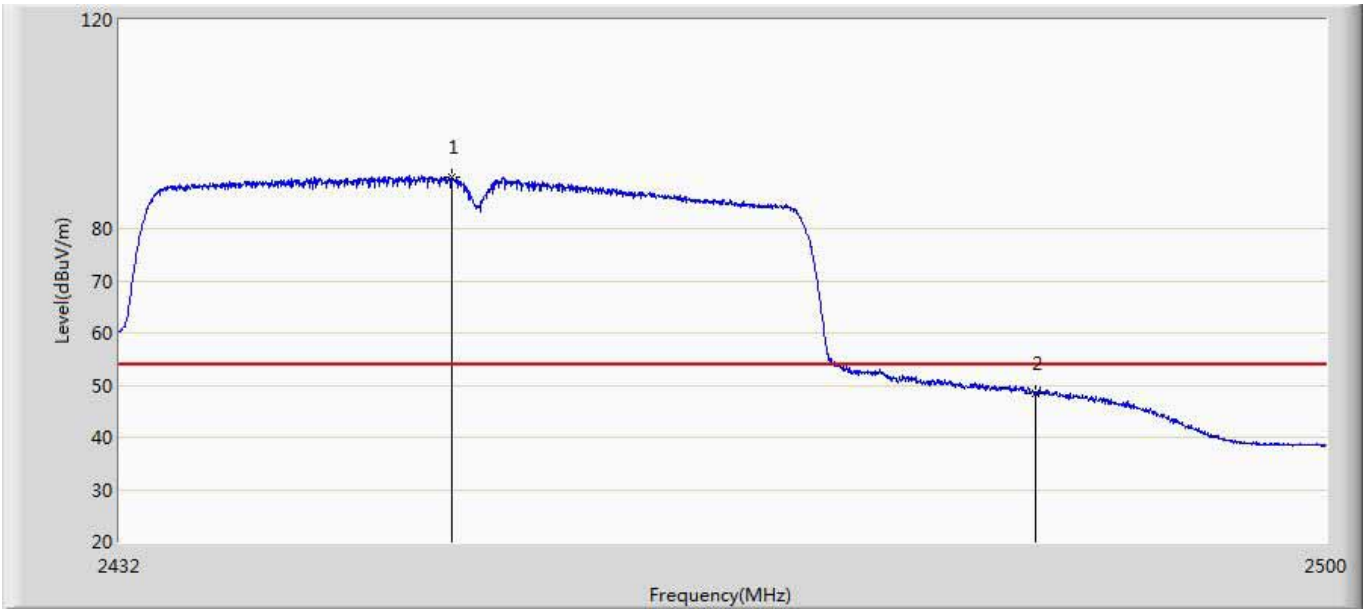
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2448.316	96.968	61.467	42.968	54.000	35.502	AV
2		2483.500	49.801	14.283	-4.199	54.000	35.517	AV

Profile: 2040625R	Page No.: 29
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 14:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 4:Transmit at 2452MHz by 802.11n(40MHz)	



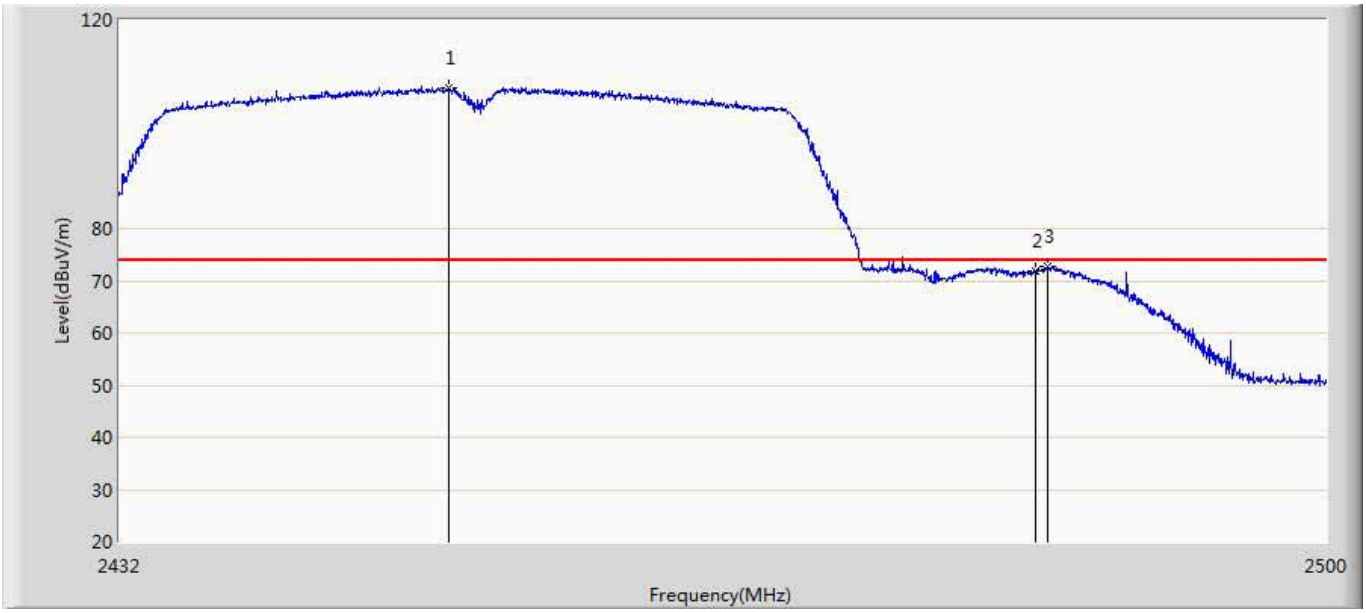
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2449.816	99.413	63.908	25.413	74.000	35.505	PK
2		2483.500	72.338	36.820	-1.662	74.000	35.517	PK

Profile: 2040625R	Page No.: 30
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 14:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 4:Transmit at 2452MHz by 802.11n(40MHz)	



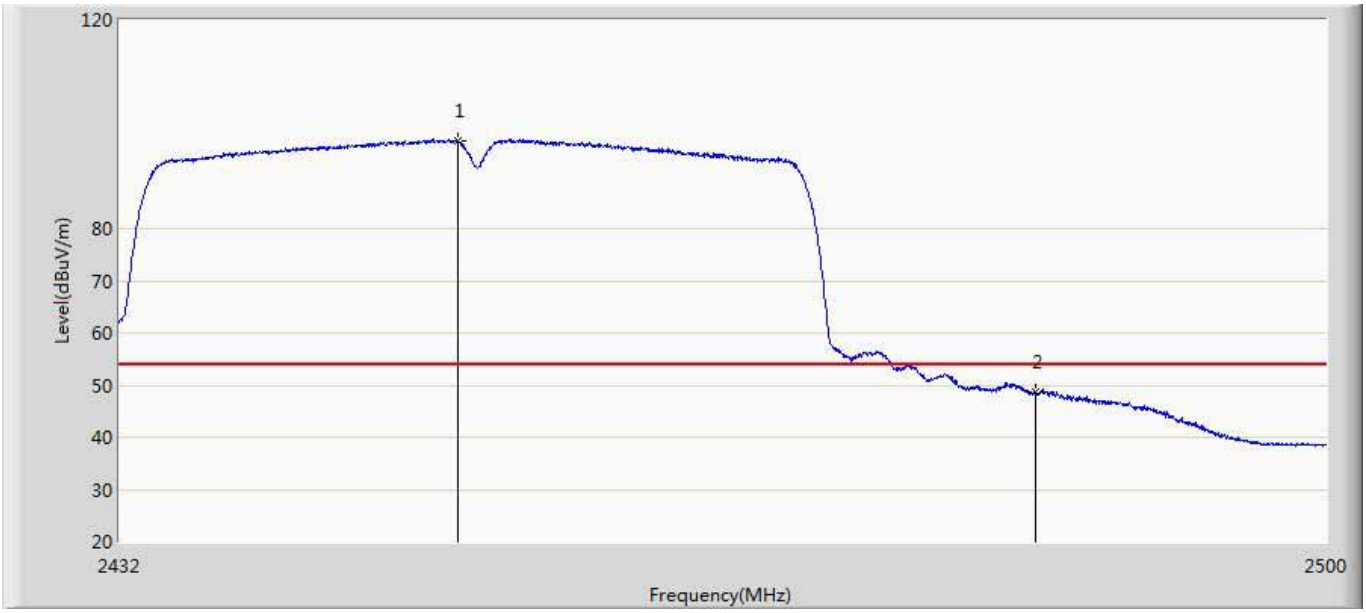
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2450.564	89.833	54.326	35.833	54.000	35.508	AV
2		2483.500	48.308	12.790	-5.692	54.000	35.517	AV

Profile: 2040625R	Page No.: 31
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 14:23
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 4:Transmit at 2452MHz by 802.11n(40MHz)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2450.428	107.039	71.532	33.039	74.000	35.507	PK
2		2483.500	71.767	36.249	-2.233	74.000	35.517	PK
3		2484.122	72.844	37.323	-1.156	74.000	35.521	PK

Profile: 2040625R	Page No.: 32
Engineer: YULIU	
Site: AC5	Time: 2020/04/26 - 14:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: Mobile Computer	Power: 3.8 Vdc
Note: Mode 4:Transmit at 2452MHz by 802.11n(40MHz)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2450.870	96.880	61.372	42.880	54.000	35.509	AV
2		2483.500	48.596	13.078	-5.404	54.000	35.517	AV

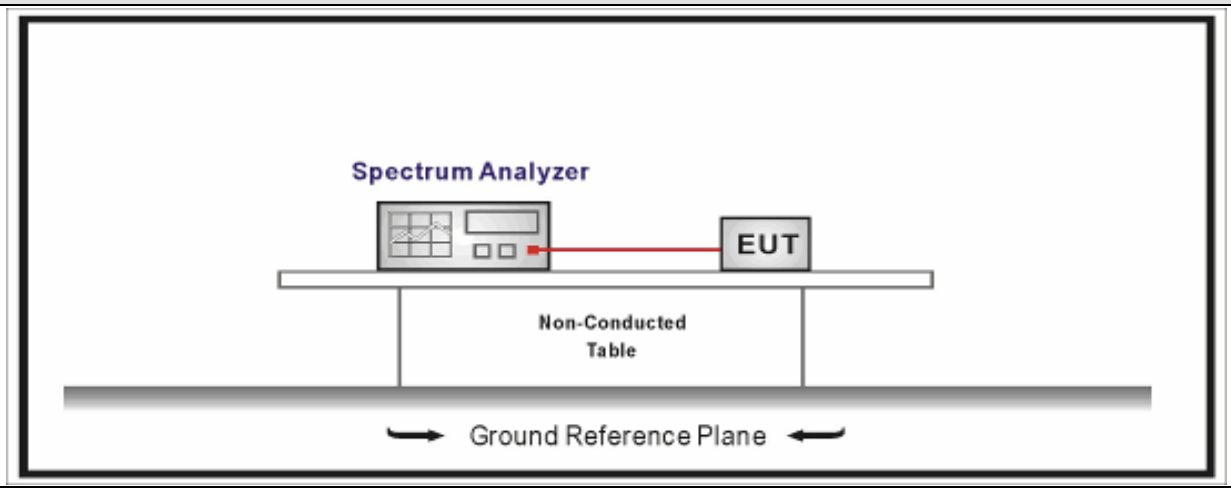
7. Occupied Bandwidth

7.1. Test Equipment

Occupied Bandwidth / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2019.09.28	2020.09.27
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2020.04.17	2021.04.16
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2019.08.30	2020.08.29
Temperature/Humidity Meter	Zhichen	ZC1-2	TR8-TH	2019.09.02	2020.09.01
Note: All equipment is calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

7.2. Test Setup

Occupied Bandwidth test setup:



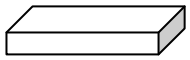
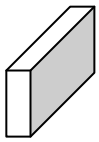
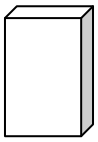
7.3. Limit

Occupied Bandwidth
Systems using digital modulation techniques operate in the2400-2483.5 MHz .The minimum 6 dB bandwidth shall be at least 500 kHz

7.4. Test Procedure

Test Method				
	Reference Rule		Chapter	Description
☒	ANSI C63.10		11.8	DTS bandwidth
	☐	ANSI C63.10	11.8.1	Option 1
	☒	ANSI C63.10	11.8.2	Option 2

7.5. EUT test definition

<table>
<tr><th>Item</th><th colspan="4">Occupied Bandwidth</th></tr>
<tr><td rowspan="3">Device Category</td><td>☐</td><td colspan="3">Fixed point-to-point</td></tr>
<tr><td>☐</td><td colspan="3">Emit multiple directional beams, simultaneously or sequentially</td></tr>
<tr><td>☒</td><td colspan="3">Other cases</td></tr>
<tr><td>Test mode</td><td colspan="4">Mode 1~4</td></tr>
<tr><td rowspan="11">Test method</td><td>☐</td><td colspan="3">Radiated</td></tr>
<tr><td rowspan="3"></td><td>X Axis</td><td>Y Axis</td><td>Z Axis</td></tr>
<tr><td>  </td><td>  </td><td>  </td></tr>
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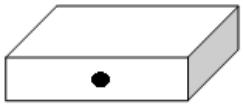
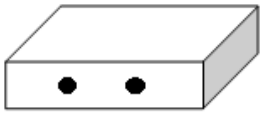
<tr><td>☒</td><td colspan="3">Chain 1</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☐</td><td>Chain 1</td><td colspan="2">Chain 2</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☐</td><td>Chain 1</td><td>Chain 2</td><td>Chain 3</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
</table>

7.6. Test Result

Product Name	:	Mobile Computer			
Test Mode	:	Mode1~4	Test Site	:	TR-8
Test Date	:	2020.04.24	Test Engineer	:	Eric

Mode	CH.	Test Freq. (MHz)	99% Occupied Bandwidth (MHz)	6dB Occupied Bandwidth (MHz)	Limit (kHz)	Result
1	01	2412	12.669	8.086	>500	Pass
1	06	2437	12.816	8.096	>500	Pass
1	11	2462	12.672	8.089	>500	Pass
2	01	2412	16.515	15.14	>500	Pass
2	06	2437	15.569	15.69	>500	Pass
2	11	2462	16.508	15.10	>500	Pass
3	01	2412	17.657	15.15	>500	Pass
3	06	2437	17.632	15.16	>500	Pass
3	11	2462	17.655	15.47	>500	Pass
4	03	2422	36.515	35.14	>500	Pass
4	06	2437	36.679	35.19	>500	Pass
4	09	2452	36.444	35.16	>500	Pass

Note : The worst case is as below:

Mode 4 CH06 (2437MHz) for 99% Occupied Bandwidth

Mode 1 CH01 (2412MHz) for 6dB Occupied Bandwidth

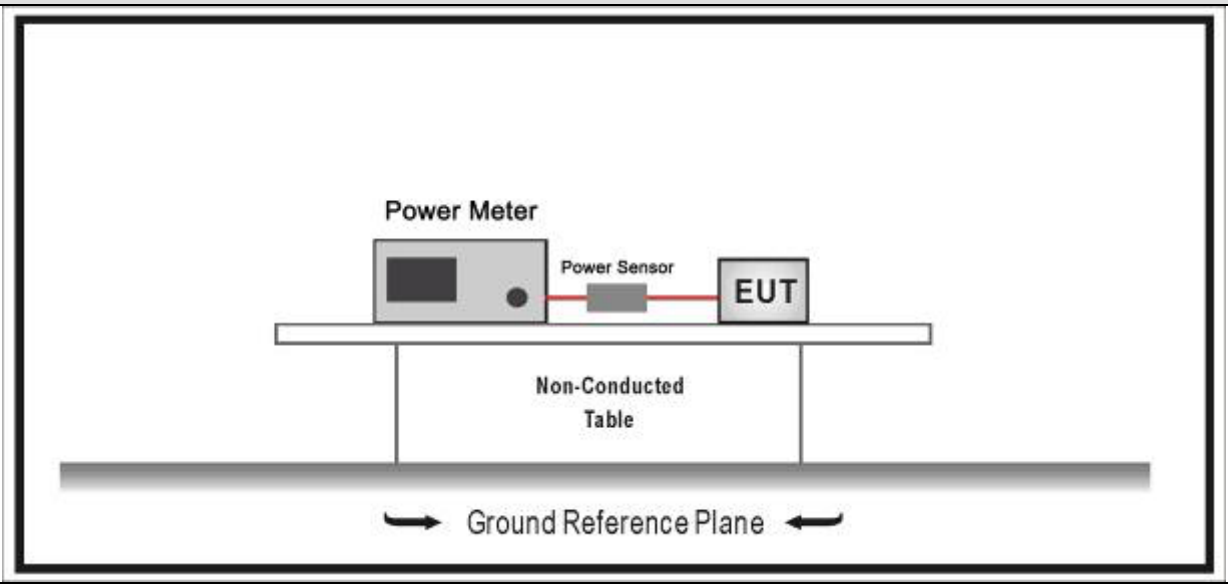
8. Fundamental emission output power

8.1. Test Equipment

Fundamental Emission output power / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2019.09.28	2020.09.27
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2020.04.17	2021.04.16
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2019.08.30	2020.08.29
Wideband Peak Power Meter	Anritsu	ML2495A	1613005	2019.10.28	2020.10.27
Power Sensor	Anritsu	MA2411B	1531092	2019.10.14	2020.10.13
Temperature/Humidity Meter	Zhichen	ZC1-2	TR8-TH	2019.09.02	2020.09.01
Note: All equipment is calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

8.2. Test Setup

Fundamental emission output power test setup



8.3. Limit

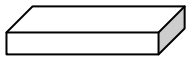
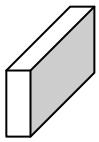
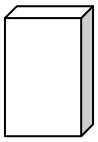
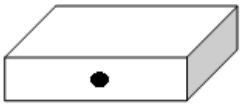
Fundamental emission output power Limit for FCC			
☒	G_{TX} ＜6dBi		P_{out}≤30dBm
☐	G_{TX} ＞6dBi		
	☐	Non-Fix point-point	P_{out}≤30-(G_{TX} -6)
	☐	Fix point-point	P_{out}≤30-[(G_{TX}-6)]/3
	☐	Point-to-multipoint	Pout≤30-(GTX-6)
	☐	Overlap Beams	P_{out}≤30-[(G_{TX}-6)]/3
	☐	Aggregate power transmitted simultaneously on all beams	P_{out}≤30-[(G_{TX}-6)]/3
	☐	single directional beam	P_{out}≤30-[(G_{TX}-6)]/3+8dB
Note 1 : G_{TX} directional gain of transmitting antennas. Note 2 : P_{out} is maximum peak conducted output power.			

Fundamental emission output power Limit for ISED
For DTSs employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1 W. The e.i.r.p. shall not exceed 4 W, except as provided in section 5.4(e).

8.4. Test Procedure

Fundamental emission output power Test Method						
	References Rule				Chapter	Description
☒	ANSI C63.10				11.9	Fundamental emission output power
	☐	ANSI C63.10			11.9.1	Maximum peak conducted output power
		☐	ANSI C63.10		11.9.1.1	RBW ≥ DTS bandwidth
		☐	ANSI C63.10		11.9.1.2	Integrated band power method
		☐	ANSI C63.10		11.9.1.3	PKPM1 Peak power meter method
	☒	ANSI C63.10			11.9.2	Maximum conducted (average) output power
		☐	ANSI C63.10		11.9.2.2	Measurement using a spectrum analyzer (SA)
			☐	ANSI C63.10	11.9.2.2.2	Method AVGSA-1(Duty cycle≥98%)
			☐	ANSI C63.10	11.9.2.2.3	Method AVGSA-1A(Duty cycle≥98%)
			☐	ANSI C63.10	11.9.2.2.4	Method AVGSA-2(Duty cycle≤98%)
			☐	ANSI C63.10	11.9.2.2.5	Method AVGSA-2A(Duty cycle≤98%)
			☐	ANSI C63.10	11.9.2.2.4	Method AVGSA-3
			☐	ANSI C63.10	11.9.2.2.5	Method AVGSA-3A
		☒	ANSI C63.10		11.9.2.3	Measurement using a power meter (PM)
			☐	ANSI C63.10	11.9.2.3.1	Method AVGPM
			☒	ANSI C63.10	11.9.2.3.2	Method AVGPM-G

8.5. EUT test definition

<table>
<tr><th>Item</th><th colspan="4">Fundamental emission output power</th></tr>
<tr><td rowspan="3">Device Category</td><td>☐</td><td colspan="3">Fixed point-to-point</td></tr>
<tr><td>☐</td><td colspan="3">Emit multiple directional beams, simultaneously or sequentially</td></tr>
<tr><td>☒</td><td colspan="3">Other cases</td></tr>
<tr><td>Test mode</td><td colspan="4">Mode 1~4</td></tr>
<tr><td rowspan="12">Test method</td><td>☐</td><td colspan="3">Radiated</td></tr>
<tr><td rowspan="3"></td><td>X Axis</td><td>Y Axis</td><td>Z Axis</td></tr>
<tr><td>  </td><td>  </td><td>  </td></tr>
<tr><td>Worst Axis ☐</td><td>Worst Axis ☐</td><td>Worst Axis ☐</td></tr>
<tr><td>☒</td><td colspan="3">Conducted</td></tr>
<tr><td>☒</td><td colspan="3">Chain 1</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
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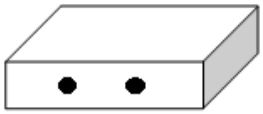
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☐</td><td>Chain 1</td><td>Chain 2</td><td>Chain 3</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
</table>

8.6. Test Result

Product Name	:	Mobile Computer			
Test Mode	:	Mode1~4	Test Site	:	TR-8
Test Date	:	2020.05.15	Test Engineer	:	Eric

Mode	Channel	Test Frequency (MHz)	Conducted Power Output (dBm)	Conducted Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Result
1	01	2412	19.89	30	20.73	36	Pass
1	06	2437	19.77	30	20.61	36	Pass
1	11	2462	20.39	30	21.23	36	Pass
2	01	2412	20.08	30	20.92	36	Pass
2	06	2437	20.05	30	20.89	36	Pass
2	11	2462	18.18	30	19.02	36	Pass
3	01	2412	19.86	30	20.70	36	Pass
3	06	2437	19.96	30	20.80	36	Pass
3	11	2462	17.89	30	18.73	36	Pass
4	03	2422	17.34	30	18.18	36	Pass
4	04	2427	18.52	30	19.36	36	Pass
4	06	2437	19.91	30	20.75	36	Pass
4	07	2442	19.88	30	20.72	36	Pass
4	08	2447	16.69	30	17.53	36	Pass
4	09	2452	15.79	30	16.63	36	Pass

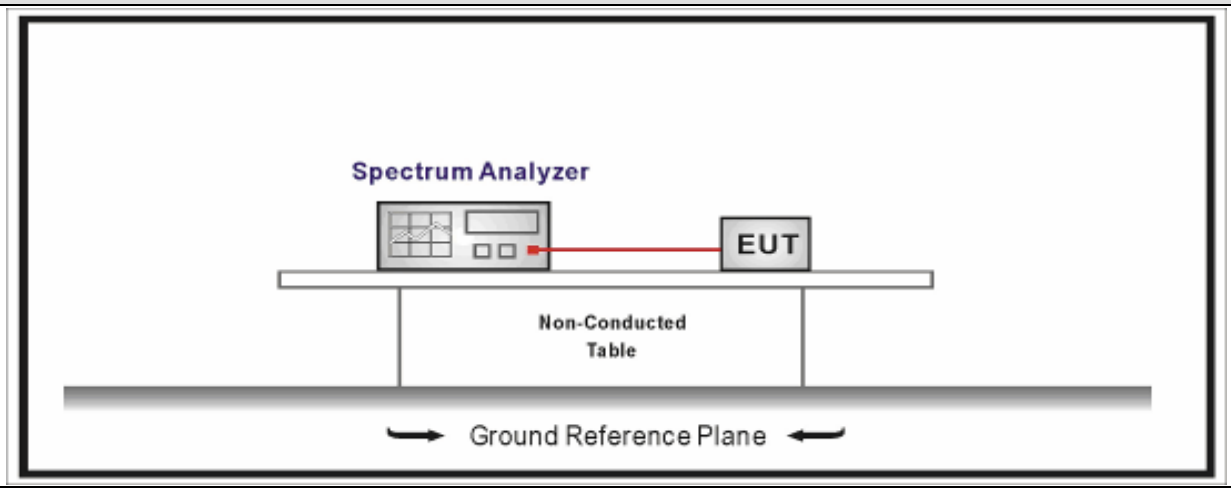
9. Power Spectral Density

9.1. Test Equipment

Power Spectral Density / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2019.09.28	2020.09.27
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2020.04.17	2021.04.16
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2019.08.30	2020.08.29
Temperature/Humidity Meter	Zhichen	ZC1-2	TR8-TH	2019.09.02	2020.09.01
Note: All equipment is calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

9.2. Test Setup

Power Spectral Density test setup



9.3. Limit

Power Spectral Density Limit
Power Spectral Density≤8dBm/3kHz

9.4. Test Procedure

Power Spectral Density Test Method				
	References Rule		Chapter	Description
☒	ANSI C63.10		11.10	Maximum power spectral density level in the fundamental emission
	☐	ANSI C63.10	11.10.2	Method PKPSD (peak PSD)
	☒	ANSI C63.10	11.10.3	Method AVGPSD-1(Duty cycle≥98%)
	☐	ANSI C63.10	11.10.4	Method AVGPSD-1A(Duty cycle≥98%)
	☒	ANSI C63.10	11.10.5	Method AVGPSD-2(Duty cycle＜98%)
	☐	ANSI C63.10	11.10.6	Method AVGPSD-2A(Duty cycle＜98%)
	☐	ANSI C63.10	11.10.7	Method AVGPSD-3
	☐	ANSI C63.10	11.10.8	Method AVGPSD-3A

9.5. EUT test definition

<table>
<tr><th>Item</th><th colspan="4">Power Spectral Density Test Method</th></tr>
<tr><td rowspan="3">Device Category</td><td>☐</td><td colspan="3">Fixed point-to-point</td></tr>
<tr><td>☐</td><td colspan="3">Emit multiple directional beams, simultaneously or sequentially</td></tr>
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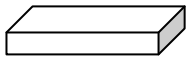
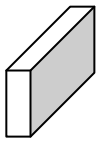
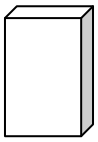
<tr><td>  </td><td>  </td><td>  </td></tr>
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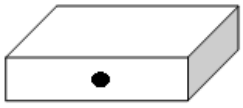
<tr><td></td><td colspan="3">  </td></tr>
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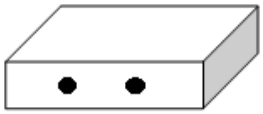
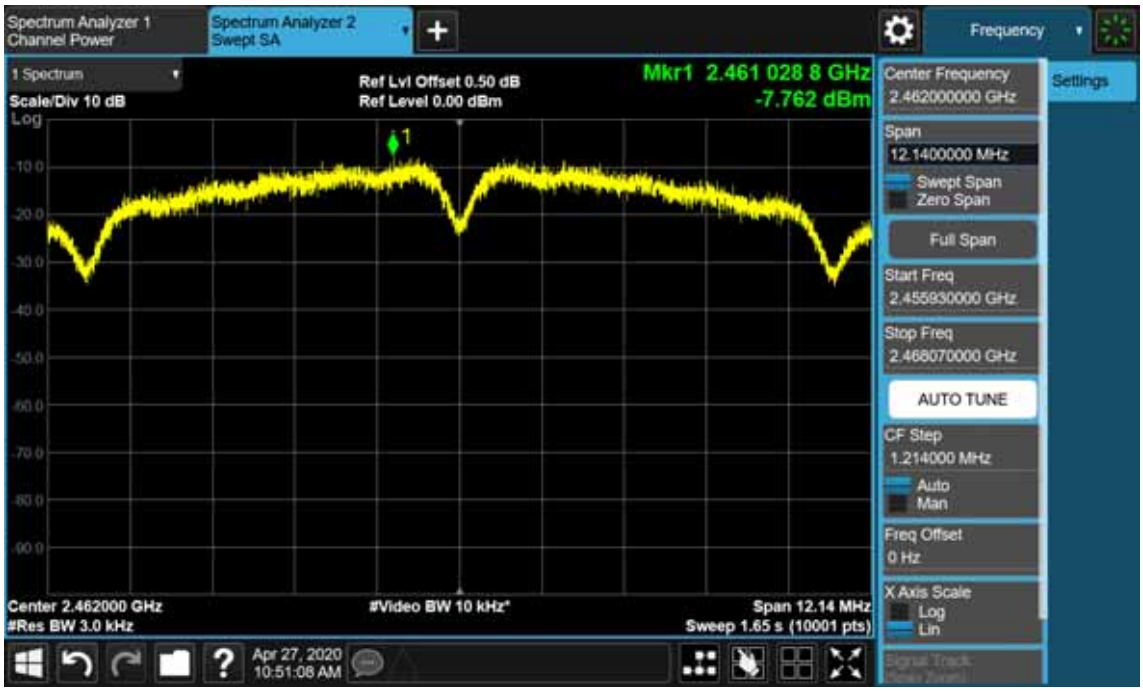
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☐</td><td>Chain 1</td><td>Chain 2</td><td>Chain 3</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
</table>

9.6. Test Result

Product Name	:	Mobile Computer			
Test Mode	:	Mode1~4	Test Site	:	TR-8
Test Date	:	2020.04.27	Test Engineer	:	Eric

Mode	Channel	Test Frequency (MHz)	Measurement PSD (dBm/3kHz)	Duty factor	Limit (dBm/3kHz)	Result
1	01	2412	-8.381	0	8.0	Pass
1	06	2437	-9.379	0	8.0	Pass
1	11	2462	-7.762	0	8.0	Pass
2	01	2412	-11.468	0.19	8.0	Pass
2	06	2437	-10.733	0.19	8.0	Pass
2	11	2462	-12.409	0.19	8.0	Pass
3	01	2412	-11.689	0.22	8.0	Pass
3	06	2437	-11.523	0.22	8.0	Pass
3	11	2462	-13.316	0.22	8.0	Pass
4	03	2422	-16.095	0.38	8.0	Pass
4	06	2437	-14.042	0.38	8.0	Pass
4	09	2452	-17.123	0.38	8.0	Pass

Mode 1 CH11(2462MHz)



10. Antenna Requirement

10.1. Limit

Antenna Requirement Limit
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, or §15.221. 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.

10.2. Antenna Connector Construction

Antenna Connector Construction	
☒	The use of a permanently attached antenna
☐	The antenna use of a unique coupling to the intentional radiator
☐	The use of a nonstandard antenna jack or electrical connector
Please refer to the attached document “Internal Photograph” to show the antenna connector.	

The End