Test Report

FCC Part15 Subpart C & ISED RSS-247 Issue 2

Product Name	:	GEYE 500
Model No.	:	8387341, 117823, 2224489
FCC ID	:	2AH2PGR0017WB

Applicant	:	DECATHLON USA LLC
Address	:	2415 3rd Street, Suite 231 San Francisco 94107, California United States of America

Date of Receipt	:	July. 13, 2017
Test Date	:	July. 14, 2017~ Nov. 13, 2017
Issued Date	:	Jul. 24, 2018
Report No.	:	1772084R-RF- US-P06V02
Report Version	:	V1.1

Test Report Certification

Issued Date : Jul. 24, 2018
Report No. : 1772084R-RF-US-P06V02

Product Name	:	GEYE 500
Applicant	:	DECATHLON USA LLC
Address	:	2415 3rd Street, Suite 231 San Francisco 94107, California United States of America
Manufacturer	:	DECATHLON SA
Address	:	4 Boulevard de Mons- 59650 Villeneuve D'Ascq-FRANCE
Model No.	:	8387341, 117823, 2224489
FCC ID	:	2AH2PGR0017WB
EUT Voltage	:	3.8 V dc
Test Voltage		AC 120V/60Hz
Brand Name	:	Decathlon
Applicable Standard	:	FCC CFR Title 47 Part 15 Subpart C ANSI C63.4:2014; ANSI C63.10:2013; KDB 558074 D01v03r05
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: CN1155; IC Lab Code: 4075B

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Approved By : Harry Zhao

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History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
1772084R-RF-US-P06V02	V1.0	Initial Issued Report	May. 16, 2018
1772084R-RF-US-P06V02	V1.1	Change some descriptions	Jul. 24, 2018

1. General Information

1.1. EUT Description

Product Name	GEYE 500
Brand Name	Decathlon
Model No.	8387341, 117823, 2224489
EUT Voltage	3.8 V dc
Test Voltage	AC 120V/60Hz
Frequency Range	For 2.4GHz Band 802.11b/g/n(20MHz): 2412~2462MHz
Channel Number	For 2.4GHz Band 802.11b/g/n(20MHz): 11
Type of Modulation	802.11b: DSSS
	802.11g: OFDM
Data Rate	802.11g: 6/9/12/18/24/36/48/54 Mbps
	802.11b: 1/2/5.5/11 Mbps
	802.11n: up to 72.5 Mbps
Channel Control	Auto

1.2. Channel List:

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

1.3. Test Channel:

802.11b/g/n(20MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	06	2437MHz	11	2462 MHz	N/A	N/A

1.4. Antenna information

Antenna manufacturer	N/A			
Antenna Delivery	☒	1*TX+1*RX	☐ 2*TX+2*RX	☐ 3*TX+3*RX
Antenna technology	☒	SISO		
	☐	MIMO	☐	Basic
			☐	Sectorized antenna systems
			☐	Cross-polarized antennas
			☐	Unequal antenna gains, with equal transmit powers
			☐	Spatial Multiplexing
			☐	CDD
			☐	Beam-forming
Antenna Type	☐	External	☐	Dipole
	☒	Internal	☒	PIFA
			☐	PCB
			☐	Monopole Antenna
			☐	Metal plate type F antenna
			☐	Cross-polarize Antenna
Antenna Gain #0	2.5dBi			

1.5. Mode of Operation

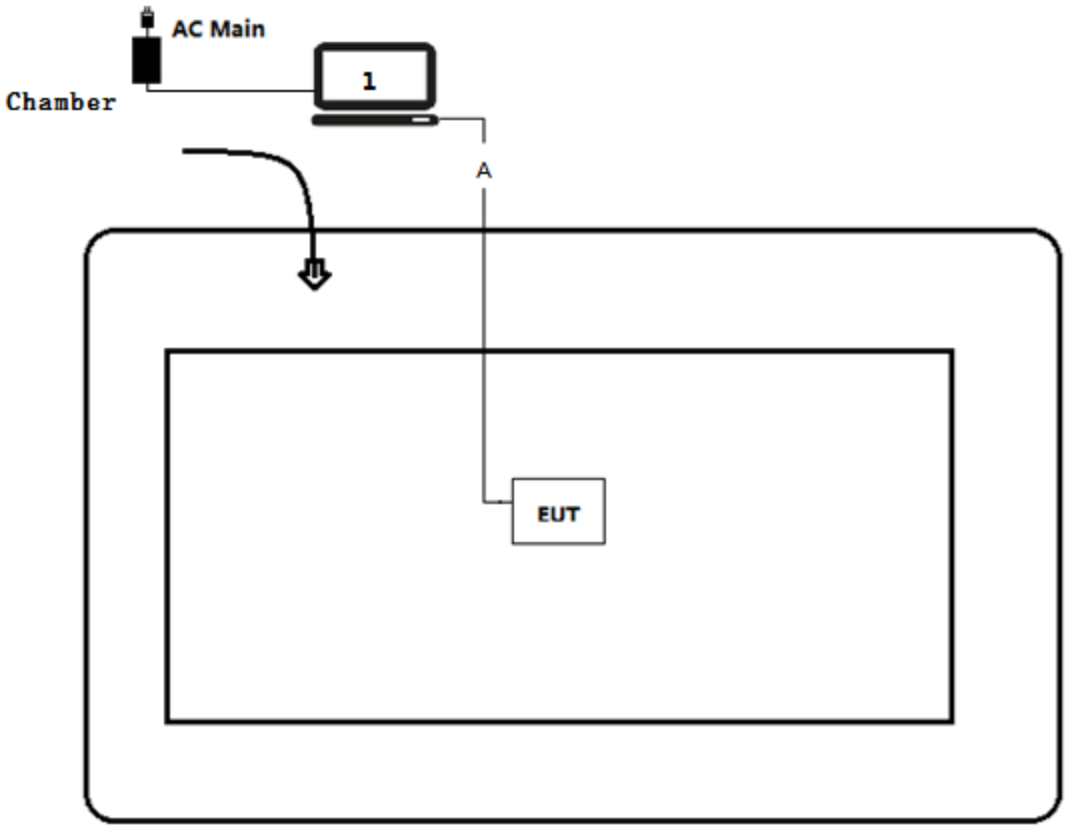
Test Modes List
Mode 1: Transmit by 802.11b
Mode 2: Transmit by 802.11g
Mode 3: Transmit by 802.11n(20MHz)

1.6. Tested System Details

The types for all equipments, 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	LAN cable	N/A	N/A	N/A	Non-shielded,1.5m

1.7. Configuration of Tested System

Test setup Diagram- Radiated Emission		
		
A	LAN Cable	Non-shielded, 1.5m

1.8. EUT Exercise Software

1	Setup the EUT and simulators as shown on above.
2	Turn on the power of all equipment.
3	Run the CDM, and Input command to control EUT transmit and receive signal.

2. Technical Test

2.1. Summary of Test Result

For FCC Rule:

Performed Test Item	Normative References	Worst case mode	Limit	Result
AC Power Line Conducted Emission	FCC CFR Title 47 Part 15 Subpart C: Section 15.207	Mode 1	FCC 15.207	N/A
Emissions in restricted frequency bands	FCC CFR Title 47 Part 15 Subpart C: Section 15.209	Mode 1	FCC 15.209	PASS
Emissions in non-restricted frequency bands	FCC CFR Title 47 Part 15 Subpart C: Section 15.247(d)	Mode 1	⩾30dBc	PASS
Radiated Emission Band Edge	FCC CFR Title 47 Part 15 Subpart C: 15.247(d)	Mode 1	FCC 15.209	PASS
Occupied Bandwidth	FCC CFR Title 47 Part 15 Subpart C: Section 15.247(a)(2)	Mode 1	⩾500kHz	PASS
Fundamental emission output power	FCC CFR Title 47 Part 15 Subpart C: Section 15.247(b)(3)	Mode 1	⩽30dBm	PASS
Power Spectral Density	FCC CFR Title 47 Part 15 Subpart C: Section 15.247(e)	Mode 1	⩽8dBm/3kHz	PASS
Antenna Requirement	FCC CFR Title 47 Part 15 Subpart C: Section 15.203	N/A	FCC 15.203	PASS

2.2. Power setting parameter

Test Software	N/A	
Modulation Mode	Test Frequency	Ant 1
802.11b	2412	16
	2437	16
	2462	17
802.11g	2412	15
	2437	14
	2462	13
802.11n(20MHz)	2412	14
	2437	13
	2462	11

2.3. Power vs Data Rate

MCS Index for 802.11n	Spatial Streams	Data Rate (Mbps)				
		802.11b	802.11g		20MHz Bandwidth	
					800ns GI	400ns GI
0	1	1	6	---	6.5	7.2
1	1	2	9	---	13.0	14.4
2	1	5.5	12	---	19.5	21.7
3	1	11	18	---	26.0	28.9
4	1	---	24	---	39.0	43.3
5	1	---	36	---	52.0	57.8
6	1	---	48	---	58.5	65.0
7	1	---	54	---	65.0	72.2
8	2	---	---	---	13.0	14.4
9	2	---	---	---	26.0	28.9
10	2	---	---	---	39.0	43.3
11	2	---	---	---	52.0	57.8
12	2	---	---	---	78.0	86.7
13	2	---	---	---	104.0	115.6
14	2	---	---	---	117.0	130.0
15	2	---	---	---	130.0	144.0

Note 1 : The blue form is the maximum power data rate

Note 2 : The EUT has two spatial Streams

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

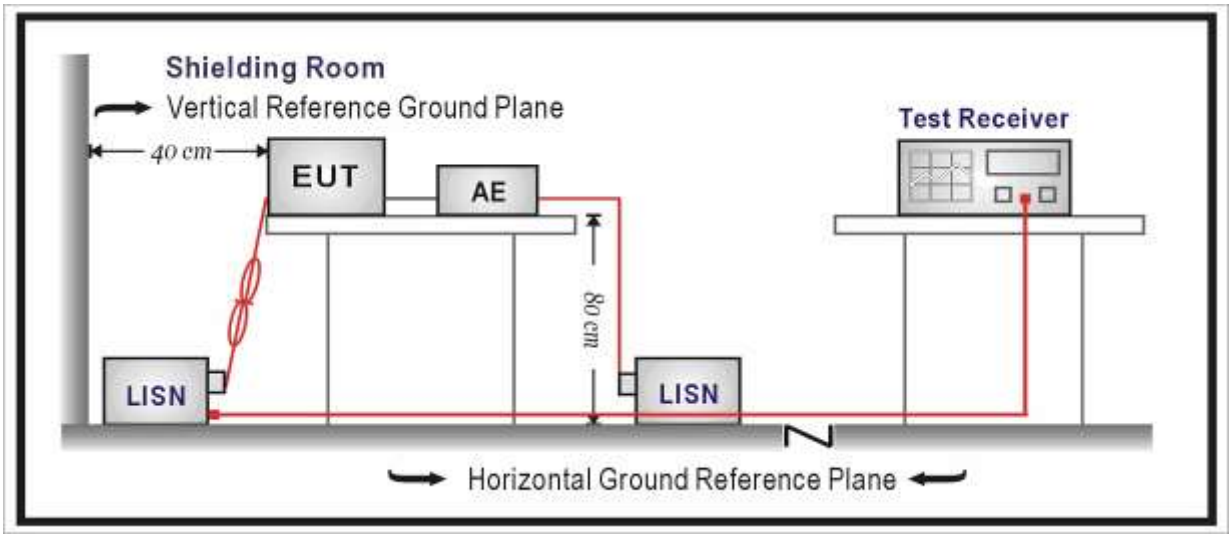
3. AC Power Line Conducted Emission

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	2017.03.05	2018.03.04
Two-Line V-Network	R&S	ENV 216	101189	2017.07.16	2018.07.15
Two-Line V-Network	R&S	ENV 216	101044	2017.09.16	2018.09.15
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	N/A	N/A
50ohm Termination	SHX	TF2	07081402	2017.09.16	2018.09.15
Temperature/Humidity Meter	Zhichen	ZC1-2	TR1-TH	2017.01.04	2018.01.03
Note: All equipments are 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

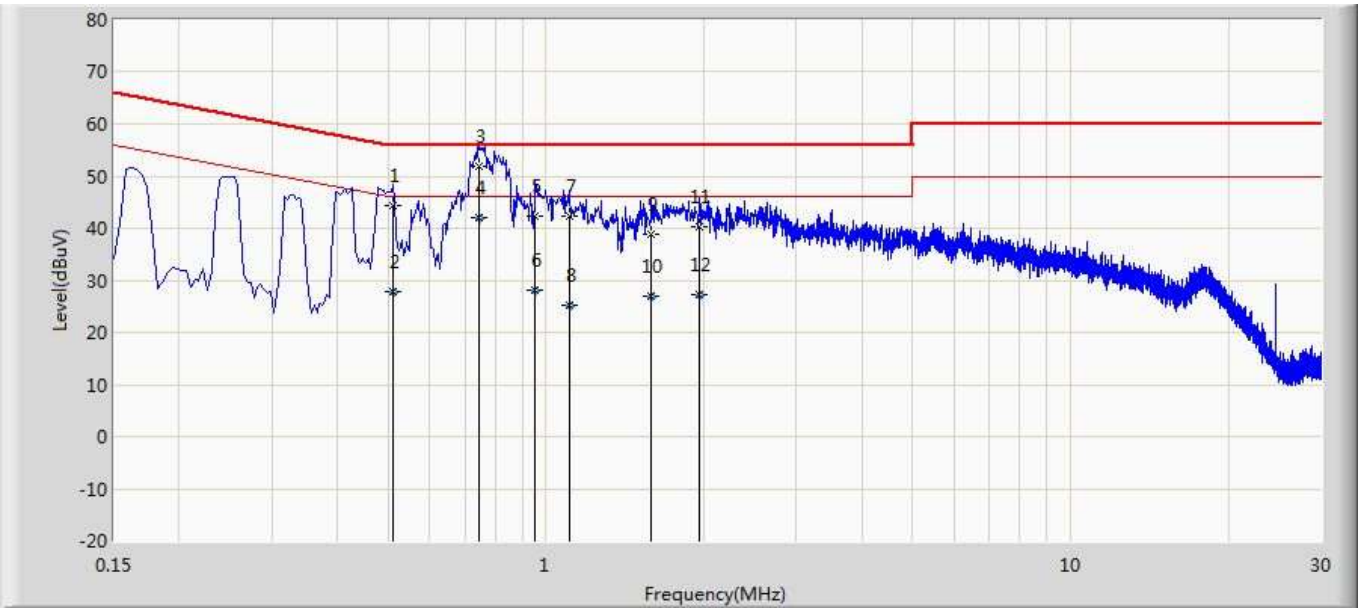
Frequency of Emission (MHz)	Conducted Limit	
	Quasi-peak (dBµV)	Average(dBµV)
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50
Note 1: The lower limit shall apply at the transition frequencies. Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.		

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
☒	ANSI C63.4-2014	7	AC power-line conducted emission measurements

3.5. Test Result

Engineer: cptJack	
Site: TR1	Time: 2017/11/02
Limit: FCC_Part15.107_CE_AC Power_ClassC	Margin: 0
Probe: ENV216_101190(0.009-30MHz)	Polarity: Line
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHz by 802.11B	



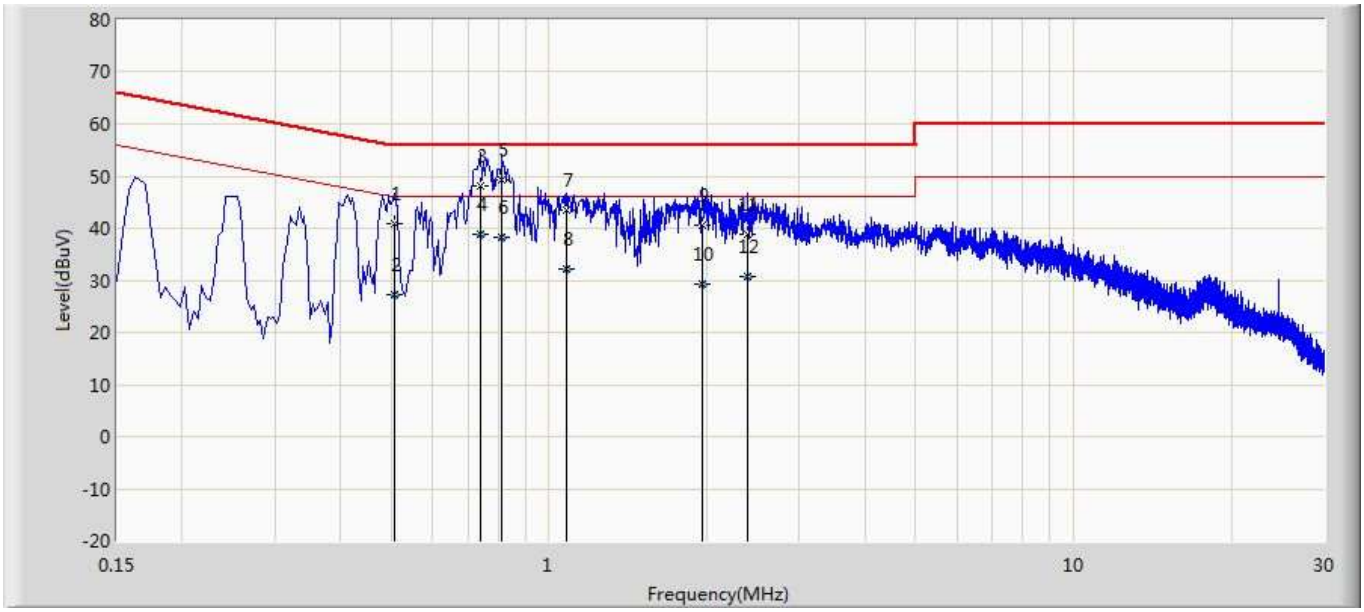
No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.510	44.390	34.747	-11.610	56.000	9.600	0.043	0.000	QP
2		0.510	27.763	18.120	-18.237	46.000	9.600	0.043	0.000	AV
3	*	0.746	51.983	42.330	-4.017	56.000	9.602	0.051	0.000	QP
4		0.746	41.894	32.242	-4.106	46.000	9.602	0.051	0.000	AV
5		0.954	42.320	32.652	-13.680	56.000	9.609	0.059	0.000	QP
6		0.954	28.248	18.580	-17.752	46.000	9.609	0.059	0.000	AV
7		1.106	42.195	32.523	-13.805	56.000	9.610	0.062	0.000	QP
8		1.106	25.126	15.454	-20.874	46.000	9.610	0.062	0.000	AV
9		1.590	38.922	29.236	-17.078	56.000	9.610	0.076	0.000	QP
10		1.590	26.949	17.263	-19.051	46.000	9.610	0.076	0.000	AV
11		1.958	40.163	30.467	-15.837	56.000	9.610	0.086	0.000	QP
12		1.958	27.258	17.562	-18.742	46.000	9.610	0.086	0.000	AV

Note:

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

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

Engineer: cptJack	
Site: TR1	Time: 2017/11/02
Limit: FCC_Part15.107_CE_AC Power_ClassC	Margin: 0
Probe: ENV216_101190(0.009-30MHz)	Polarity: Neutral
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHz by 802.11B	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.506	40.896	31.263	-15.104	56.000	9.590	0.043	0.000	QP
2		0.506	27.206	17.574	-18.794	46.000	9.590	0.043	0.000	AV
3		0.738	48.178	38.537	-7.822	56.000	9.590	0.051	0.000	QP
4		0.738	38.776	29.135	-7.224	46.000	9.590	0.051	0.000	AV
5	*	0.814	49.176	39.533	-6.824	56.000	9.590	0.053	0.000	QP
6		0.814	38.366	28.722	-7.634	46.000	9.590	0.053	0.000	AV
7		1.078	43.435	33.782	-12.565	56.000	9.592	0.062	0.000	QP
8		1.078	32.079	22.425	-13.921	46.000	9.592	0.062	0.000	AV
9		1.958	40.634	30.939	-15.366	56.000	9.609	0.086	0.000	QP
10		1.958	29.405	19.710	-16.595	46.000	9.609	0.086	0.000	AV
11		2.386	38.979	29.269	-17.021	56.000	9.615	0.096	0.000	QP
12		2.386	30.638	20.927	-15.362	46.000	9.615	0.096	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

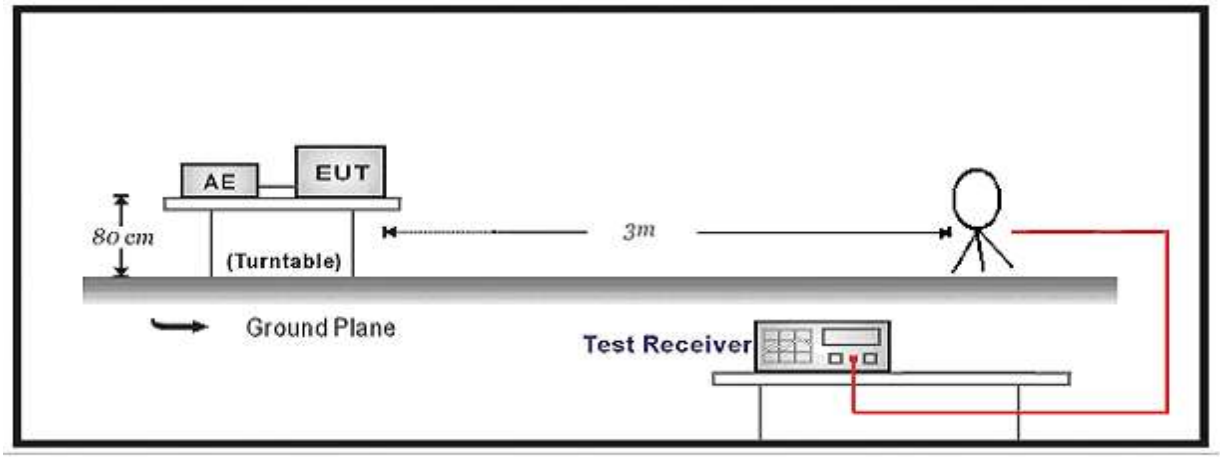
4.1. Test Equipment

Radiated Emission(Below 1GHz) / AC-2					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100573	2017.03.29	2018.03.28
Loop Antenna	R&S	HFH2-Z2	833799/003	2016.11.16	2017.11.15
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2017.10.16	2018.10.15
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2017.03.02	2018.03.01
Temperature/Humidity Meter	Zhichen	ZC1-2	AC2-TH	2017.01.04	2018.01.03
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

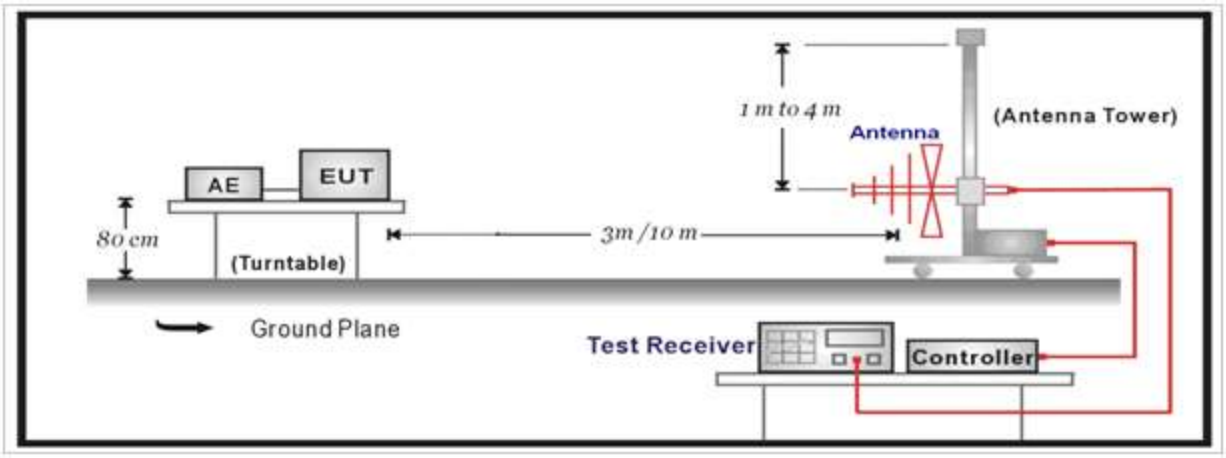
Radiated Emission(Above 1GHz) / AC-5					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2017.01.03	2018.01.02
Preamplifier	Miteq	NSP1800-25	1364185	2017.05.06	2018.05.05
Preamplifier	DEKRA Testing and Certification (Suzhou) Co., Ltd.	AP-040G	CHM-0906001	2017.05.06	2018.05.05
DRG Horn	ETS-Lindgren	3117	00123988	2017.01.22	2018.01.21
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2016.11.25	2017.11.24
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2017.03.02	2018.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2017.03.02	2018.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	AC5-C3	2017.03.02	2018.03.01
EMI Receiver	Agilent	N9038A	MY51210196	2017.06.10	2018.06.09
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2017.01.04	2018.01.03
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

4.2. Test Setup

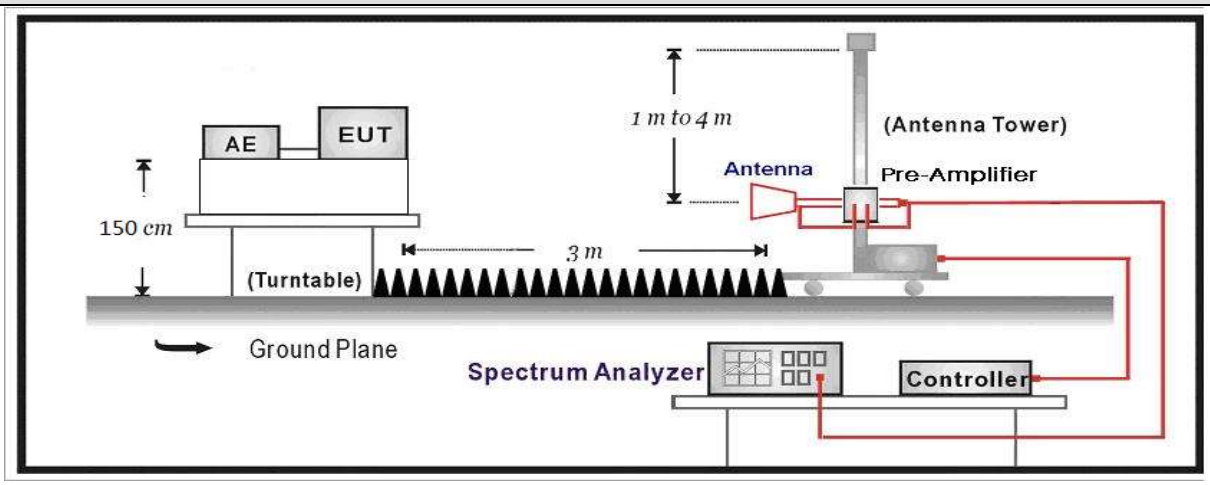
Below 30MHz Test Setup:



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 IC:

Restricted Bands of operation			
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090-0.110	13.36-13.41	1645.5-1646.5	9.0-9.2
2.1735-2.1905	16.42-16.423	1660-1710	9.3-9.5
3.020-3.026	16.69475-16.69525	1718.8-1722.2	10.6-12.7
4.125-4.128	16.80425-16.80475	2200-2300	13.25-13.4
4.17725-4.17775	25.5-25.67	2310-2390	14.47-14.5
4.20725-4.20775	37.5-38.25	2655-2900	15.35-16.2
5.677-5.683	73-74.6	3260-3267	17.7-21.4
6.215-6.218	74.8-75.2	3332-3339	22.01-23.12
6.26775-6.26825	108-138	3345.8-3358	23.6-24.0
6.31175-6.31225	156.52475-156.52525	3500-4400	31.2-31.8
8.291-8.294	156.7-156.9	4500-5150	36.43-36.5
8.362-8.366	240-285	5350-5460	Above 38.6
8.37625-8.38675	322-335.4	7250-7750	
8.41425-8.41475	399.9-410	8025-8500	
12.29-12.293	608-614		
12.51975-12.52025	960-1427		
12.57675-12.57725	1435-1626.5		

Restricted Band Emissions Limit			
Frequency (MHz)	Field strength (μV/m)	Field strength (dBμV/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)

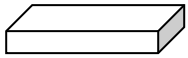
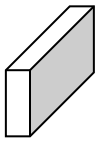
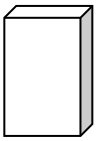
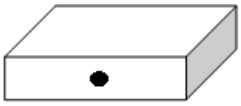
Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed 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		11.12.2.3	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><td>Item</td><td colspan="4">Emissions in restricted frequency bands</td></tr>
<tr><td rowspan="2">Device Category</td><td>☒</td><td colspan="3">Fixed position use</td></tr>
<tr><td>☐</td><td colspan="3">Mobile position use</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>
<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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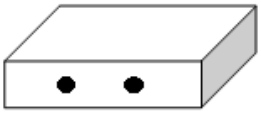
<tr><td></td><td colspan="3">  </td></tr>
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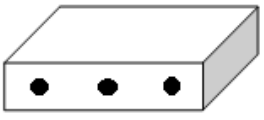
<tr><td></td><td colspan="3">  </td></tr>
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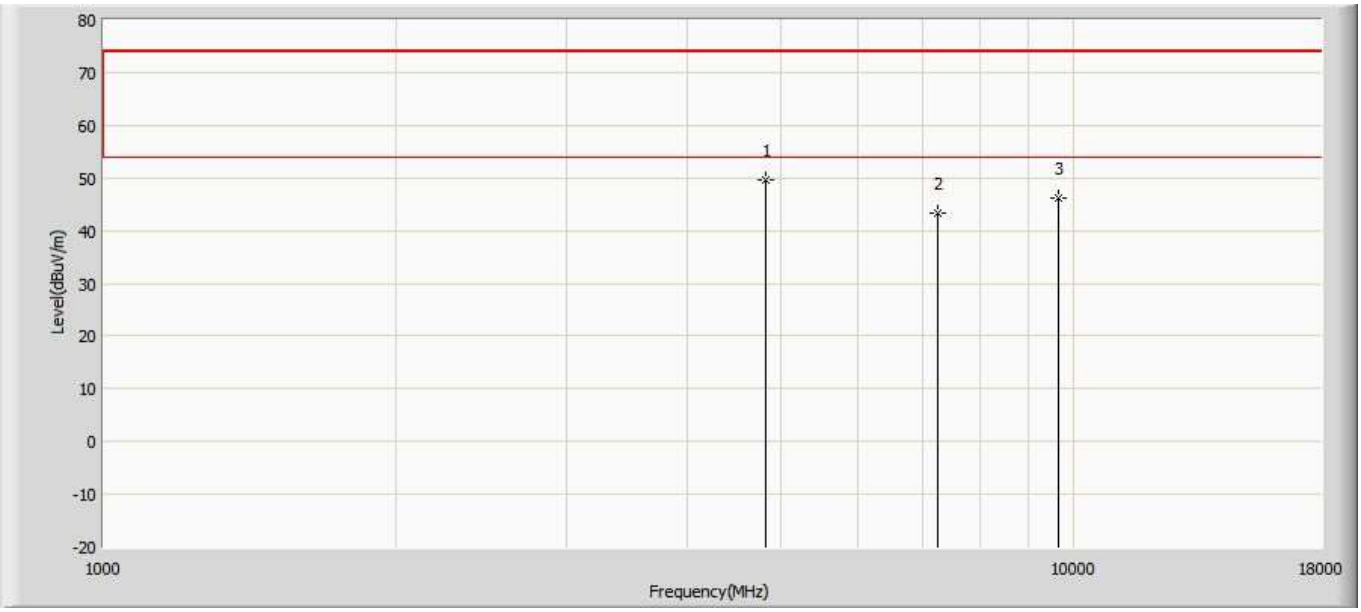
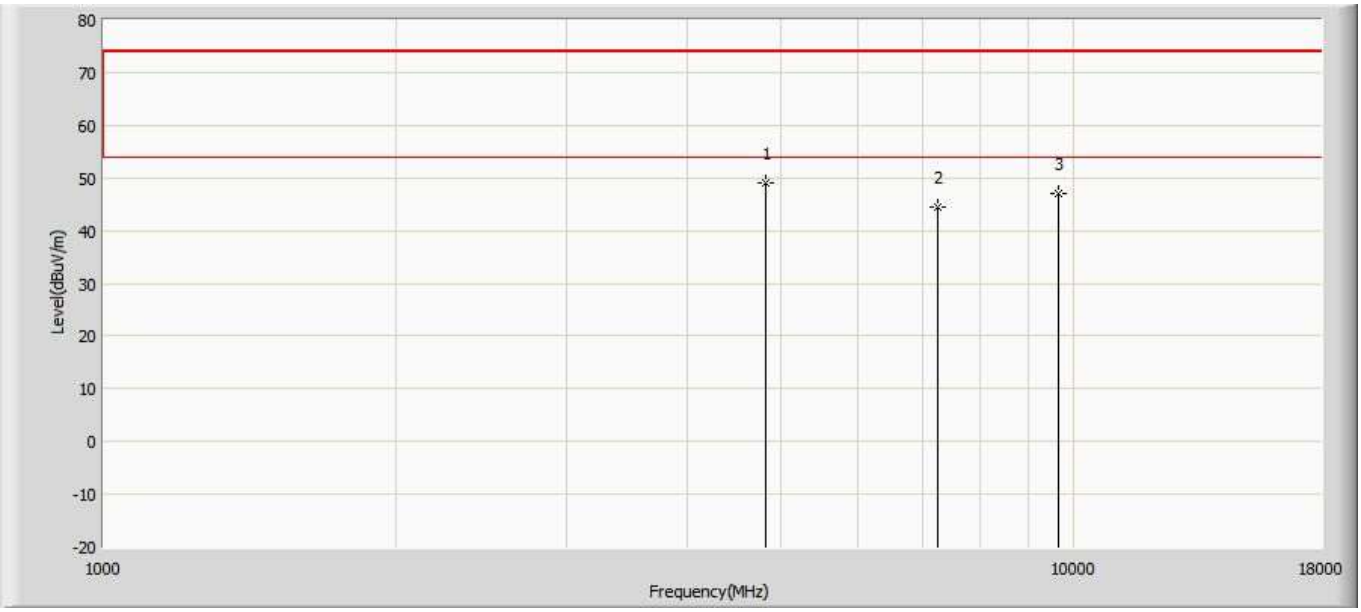
4.6. Test Result

Engineer:Slark	
Site: AC5	Time: 2017/08/03 - 18:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 1:Tranmsit at channel 2412MHz by 11b	



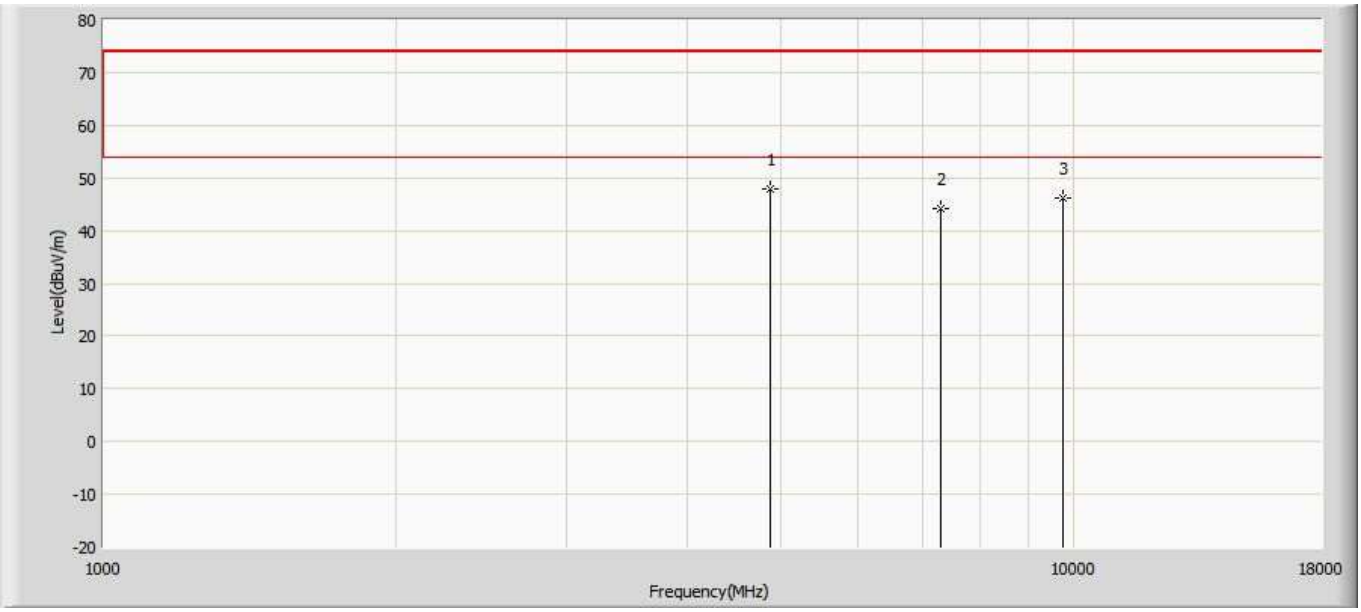
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4825.000	49.684	62.694	-24.316	74.000	-13.010	PK
2		7236.000	43.396	51.106	-30.604	74.000	-7.710	PK
3		9648.000	46.317	47.907	-27.683	74.000	-1.590	PK

Engineer:Slark	
Site: AC5	Time: 2017/08/03 - 18:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 1:Tranmsit at channel 2412MHz by 11b	



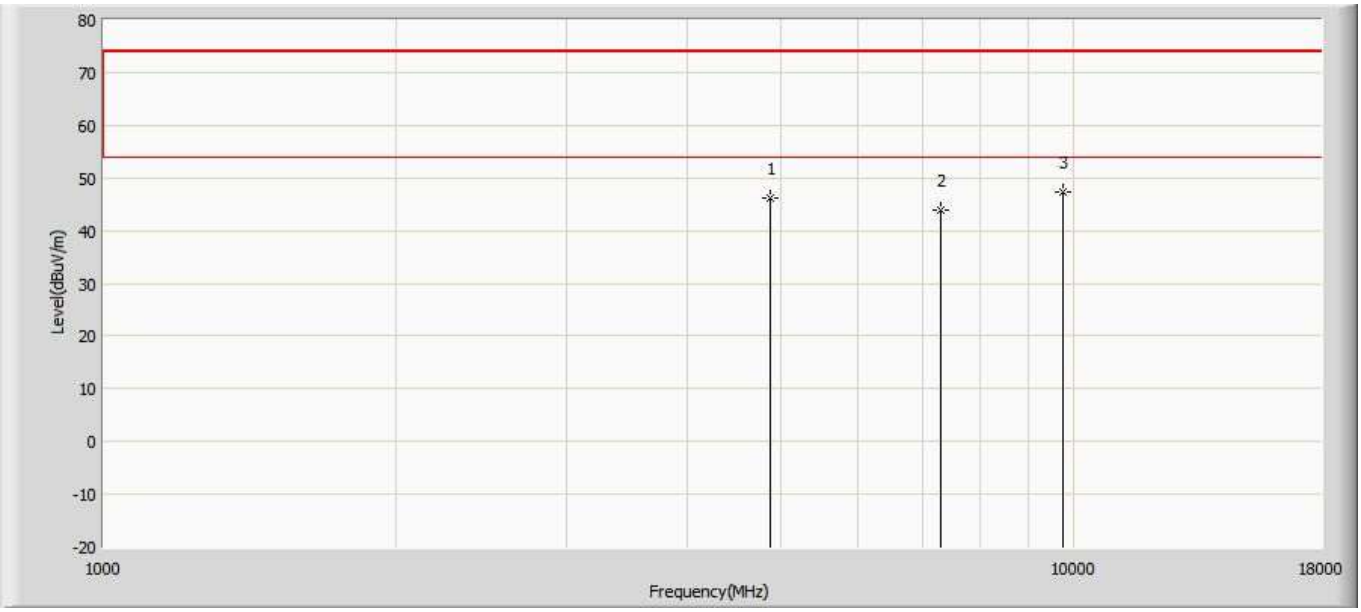
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4825.000	49.138	62.148	-24.862	74.000	-13.010	PK
2		7236.000	44.371	52.081	-29.629	74.000	-7.710	PK
3		9648.000	46.996	48.586	-27.004	74.000	-1.590	PK

Engineer:Slark	
Site: AC5	Time: 2017/08/03 - 18:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 1:Tranmsit at channel 2437MHz by 11b	



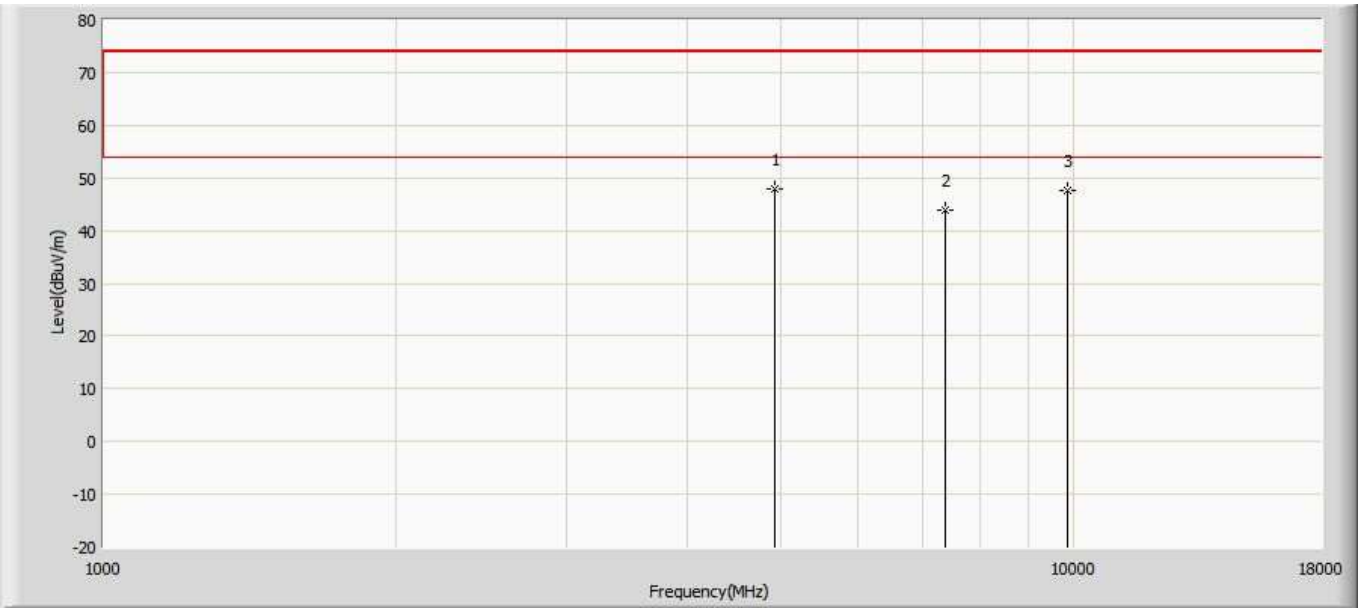
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4876.000	47.834	60.844	-26.166	74.000	-13.010	PK
2		7311.000	44.182	51.892	-29.818	74.000	-7.710	PK
3		9748.000	46.145	47.735	-27.855	74.000	-1.590	PK

Engineer:Slark	
Site: AC5	Time: 2017/08/03 - 18:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 1:Tranmsit at channel 2437MHz by 11b	



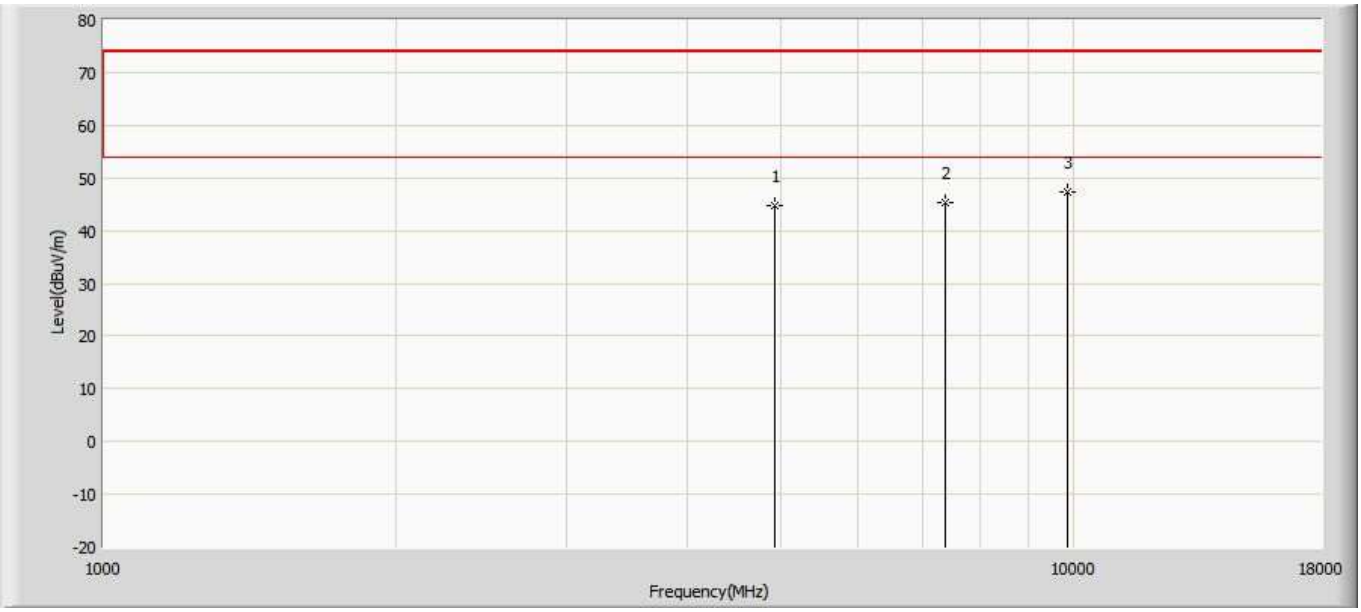
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4876.000	46.304	59.314	-27.696	74.000	-13.010	PK
2		7311.000	43.940	51.650	-30.060	74.000	-7.710	PK
3	*	9748.000	47.418	49.008	-26.582	74.000	-1.590	PK

Engineer:Slark	
Site: AC5	Time: 2017/08/03 - 18:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 1:Tranmsit at channel 2462MHz by 11b	



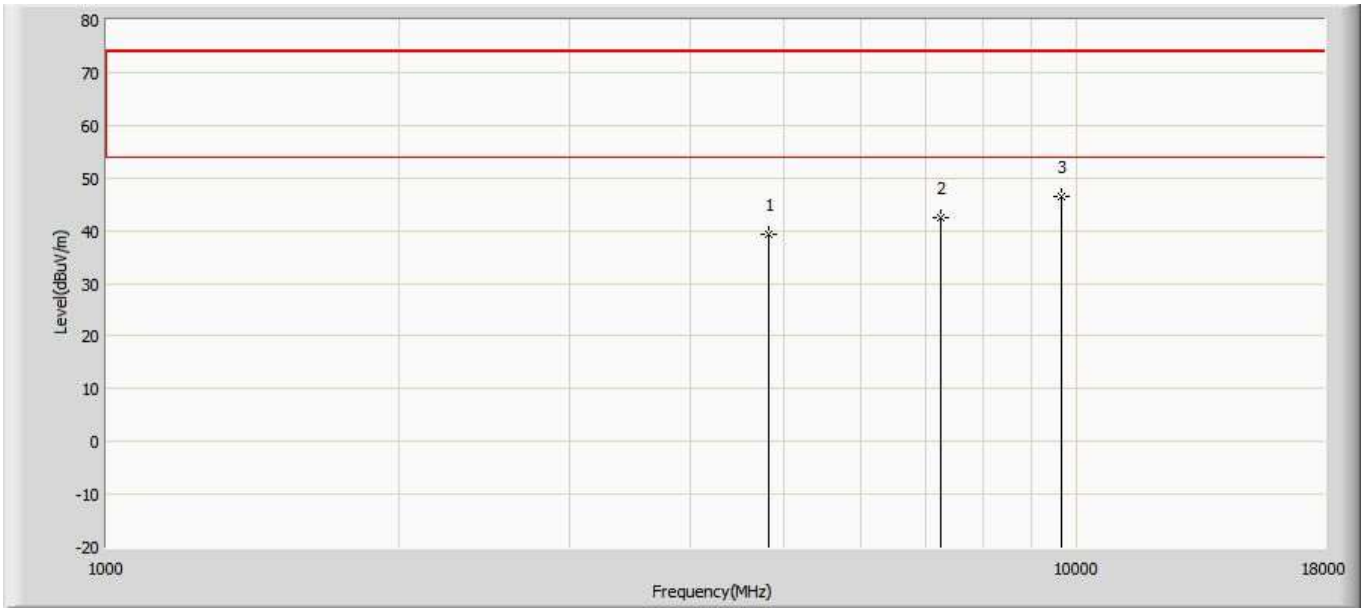
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	4927.000	47.872	60.882	-26.128	74.000	-13.010	PK
2		7386.000	43.930	51.640	-30.070	74.000	-7.710	PK
3		9848.000	47.557	49.147	-26.443	74.000	-1.590	PK

Engineer:Slark	
Site: AC5	Time: 2017/08/03 - 18:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 1:Tranmsit at channel 2462MHz by 11b	



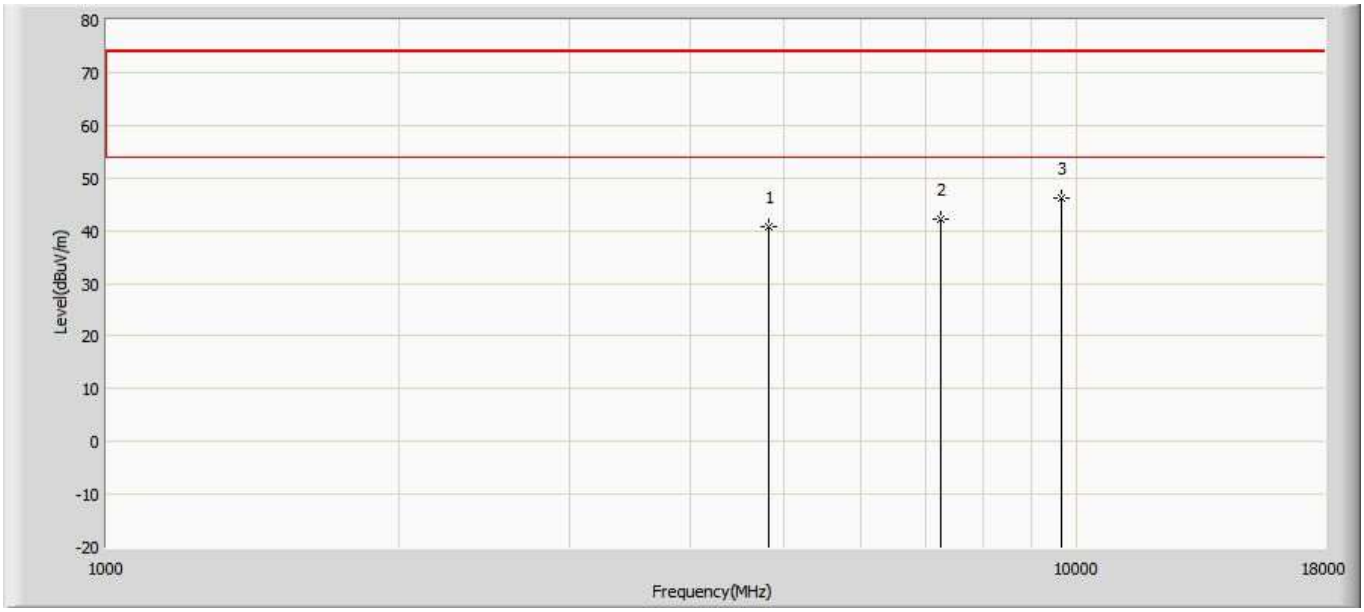
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4927.000	44.751	57.761	-29.249	74.000	-13.010	PK
2		7386.000	45.195	52.905	-28.805	74.000	-7.710	PK
3	*	9848.000	47.398	48.988	-26.602	74.000	-1.590	PK

Engineer:Slark	
Site: AC5	Time: 2017/08/03 - 18:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 2:Tranmsit at channel 2412MHz by 11g	



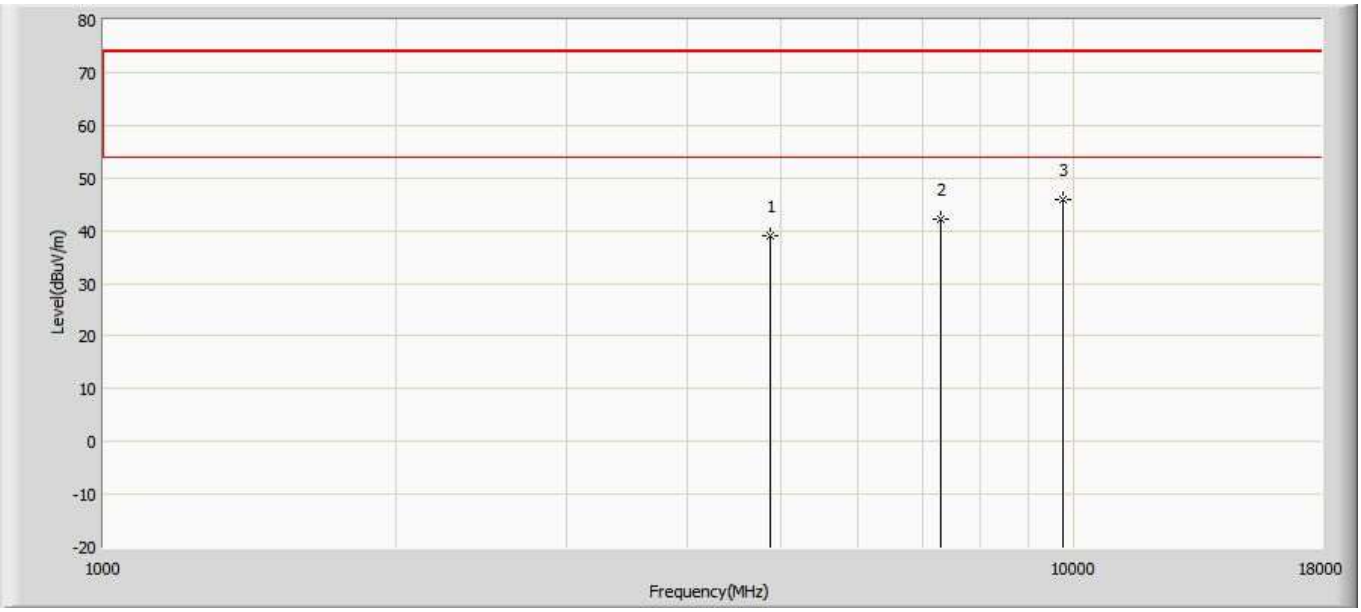
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	39.386	52.396	-34.614	74.000	-13.010	PK
2		7236.000	42.417	50.127	-31.583	74.000	-7.710	PK
3	*	9648.000	46.418	48.008	-27.582	74.000	-1.590	PK

Engineer:Slark	
Site: AC5	Time: 2017/08/03 - 18:53
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 2:Tranmsit at channel 2412MHz by 11g	



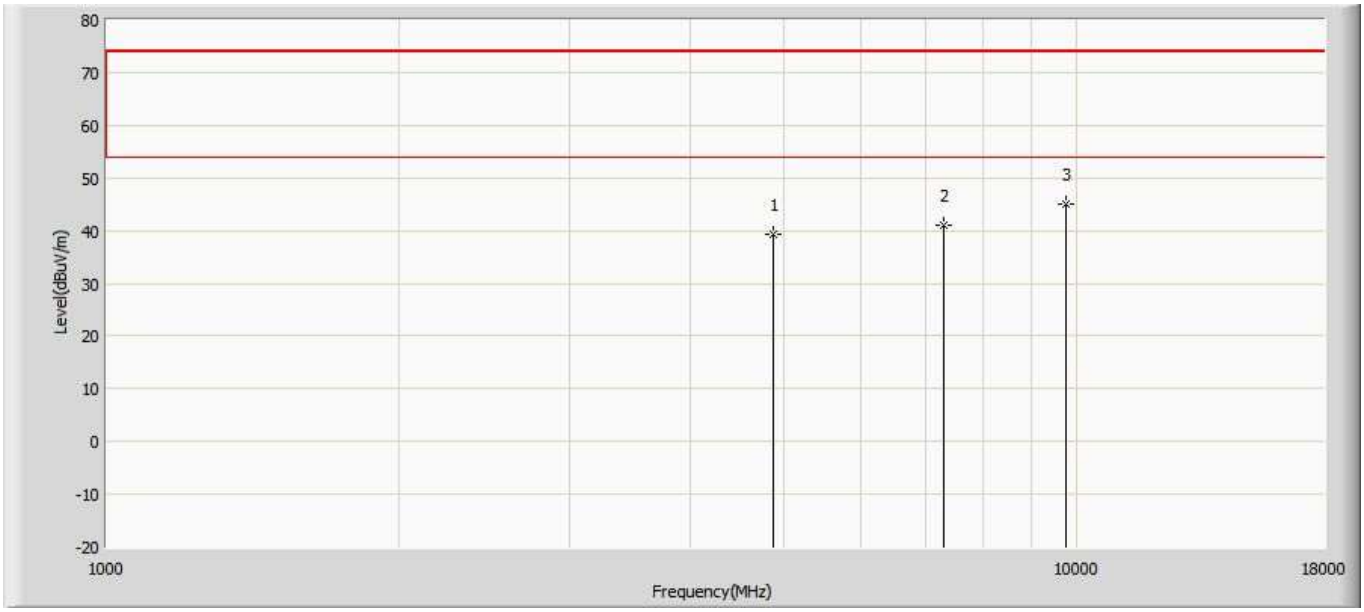
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	40.712	53.722	-33.288	74.000	-13.010	PK
2		7236.000	42.231	49.941	-31.769	74.000	-7.710	PK
3	*	9648.000	46.207	47.797	-27.793	74.000	-1.590	PK

Engineer:Slark	
Site: AC5	Time: 2017/08/03 - 18:54
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 2:Tranmsit at channel 2437MHz by 11g	



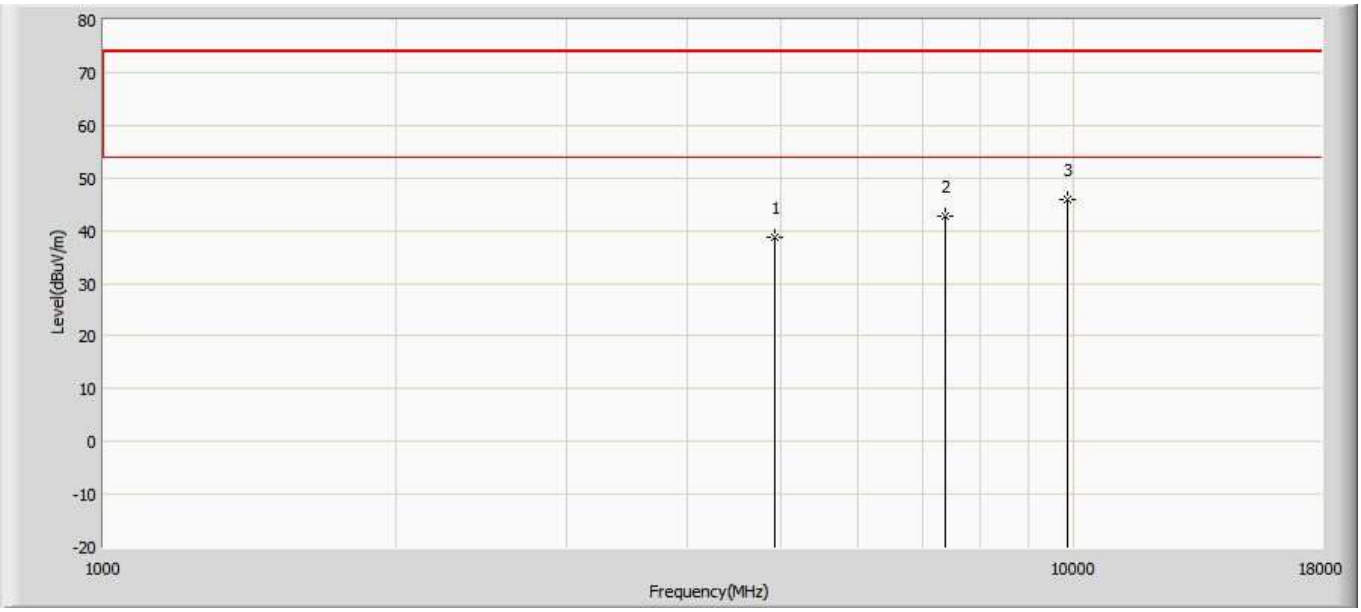
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	38.896	51.906	-35.104	74.000	-13.010	PK
2		7311.000	42.250	49.960	-31.750	74.000	-7.710	PK
3	*	9748.000	45.843	47.433	-28.157	74.000	-1.590	PK

Engineer:Slark	
Site: AC5	Time: 2017/08/03 - 18:54
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 2:Tranmsit at channel 2437MHz by 11g	



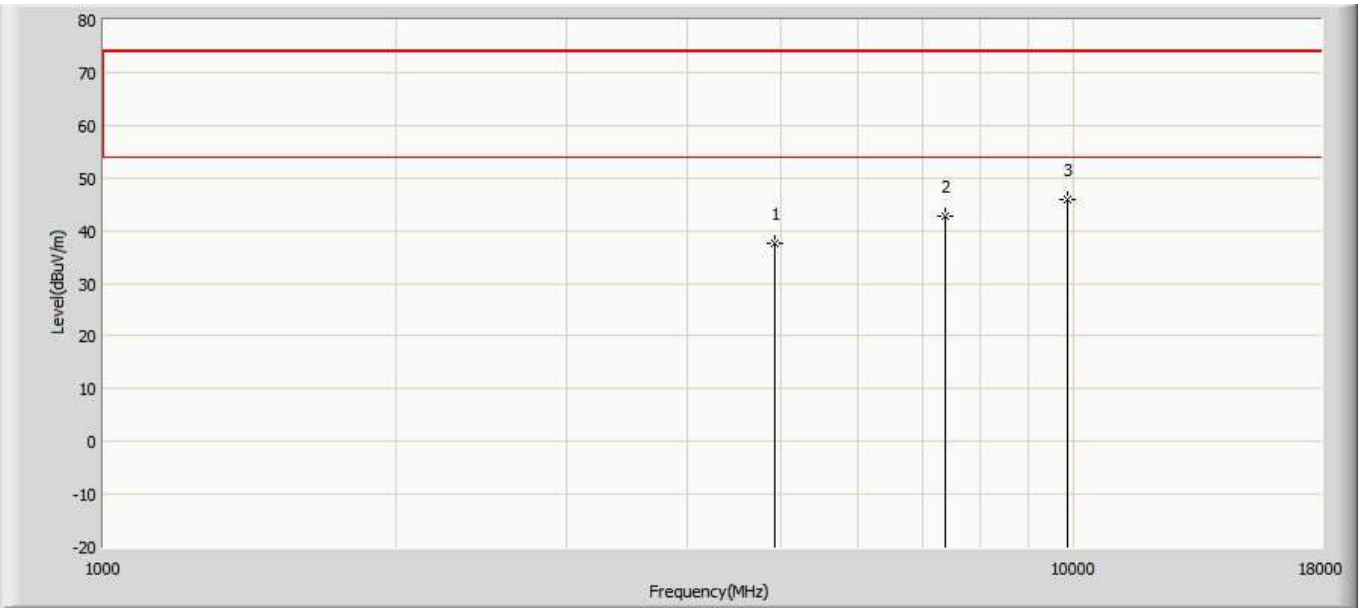
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	39.397	52.407	-34.603	74.000	-13.010	PK
2		7311.000	41.042	48.752	-32.958	74.000	-7.710	PK
3	*	9748.000	44.995	46.585	-29.005	74.000	-1.590	PK

Engineer:Slark	
Site: AC5	Time: 2017/08/03 - 18:54
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 2:Tranmsit at channel 2462MHz by 11g	



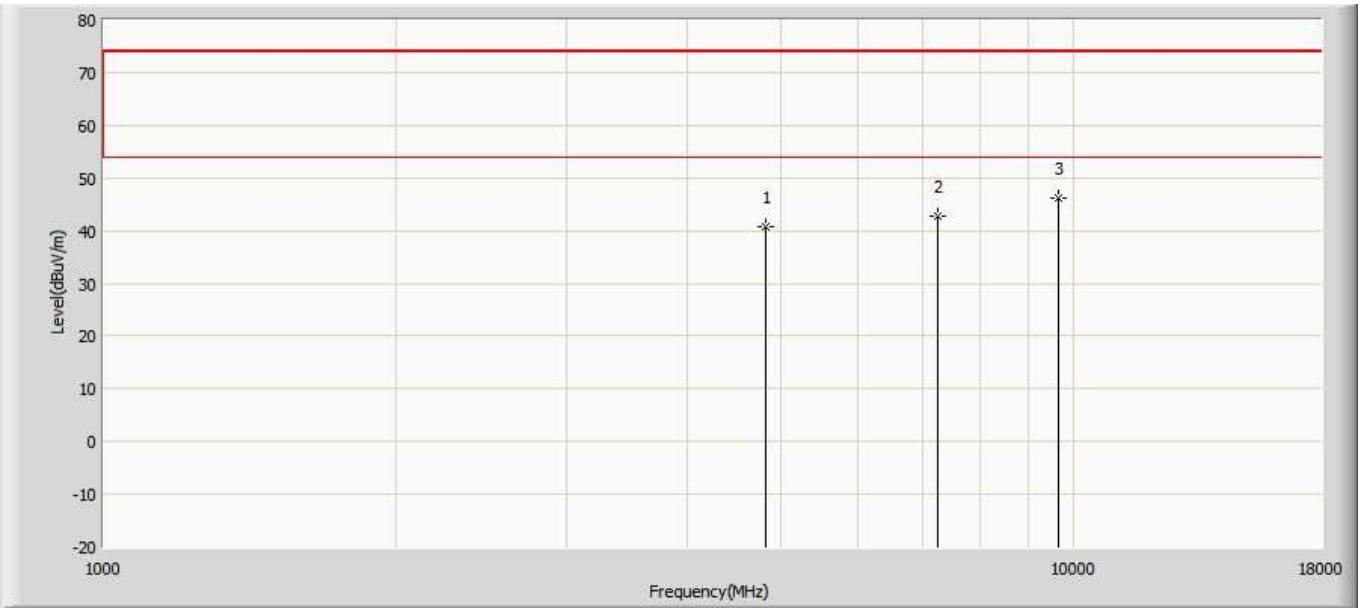
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	38.688	51.698	-35.312	74.000	-13.010	PK
2		7386.000	42.626	50.336	-31.374	74.000	-7.710	PK
3	*	9848.000	45.771	47.361	-28.229	74.000	-1.590	PK

Engineer:Slark	
Site: AC5	Time: 2017/08/03 - 18:54
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 2:Tranmsit at channel 2462MHz by 11g	



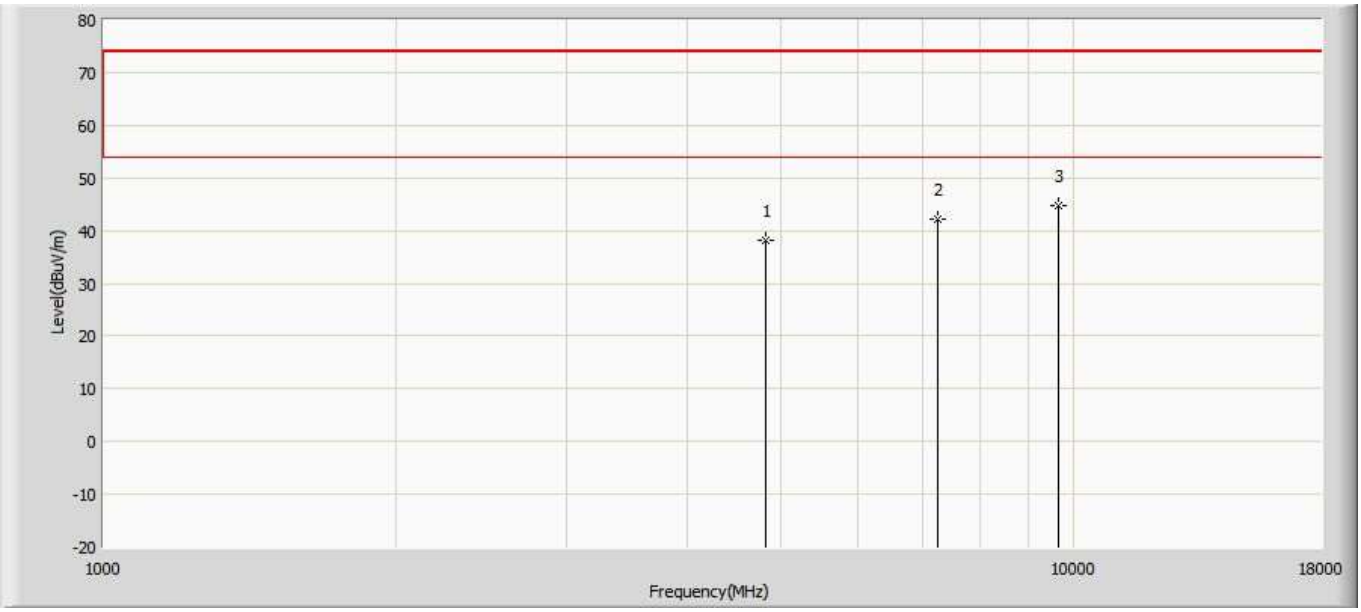
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	37.659	50.669	-36.341	74.000	-13.010	PK
2		7386.000	42.809	50.519	-31.191	74.000	-7.710	PK
3	*	9848.000	45.767	47.357	-28.233	74.000	-1.590	PK

Engineer:Slark	
Site: AC5	Time: 2017/08/03 - 18:54
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 3:Tranmsit at channel 2412MHz by 11n20	



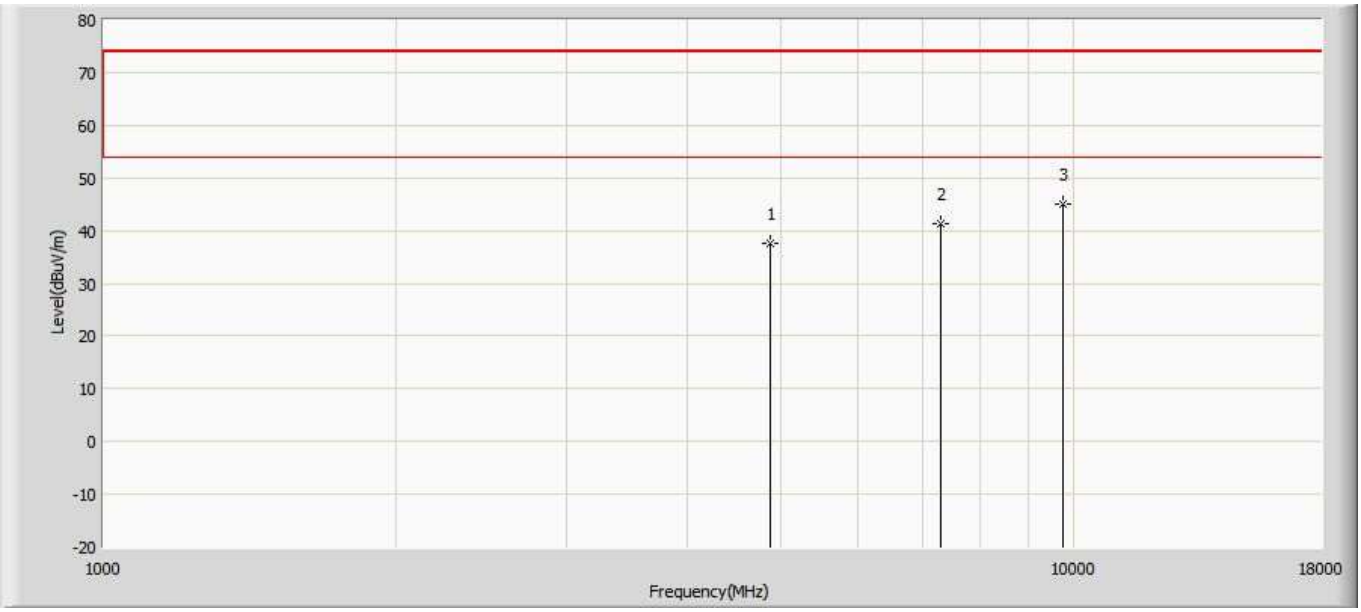
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	40.735	53.745	-33.265	74.000	-13.010	PK
2		7236.000	42.660	50.370	-31.340	74.000	-7.710	PK
3	*	9648.000	46.314	47.904	-27.686	74.000	-1.590	PK

Engineer:Slark	
Site: AC5	Time: 2017/08/03 - 18:54
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 3:Tranmsit at channel 2412MHz by 11n20	



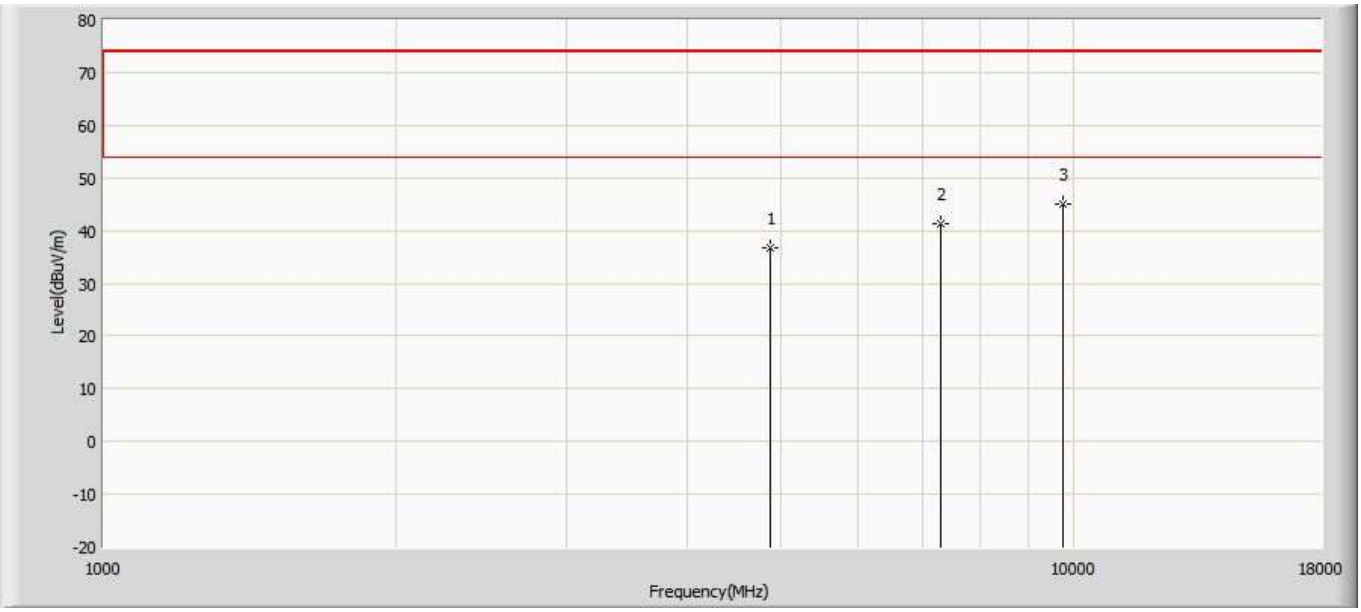
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4824.000	38.160	51.170	-35.840	74.000	-13.010	PK
2		7236.000	42.269	49.979	-31.731	74.000	-7.710	PK
3	*	9648.000	44.756	46.346	-29.244	74.000	-1.590	PK

Engineer:Slark	
Site: AC5	Time: 2017/08/03 - 18:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 3:Tranmsit at channel 2437MHz by 11n20	



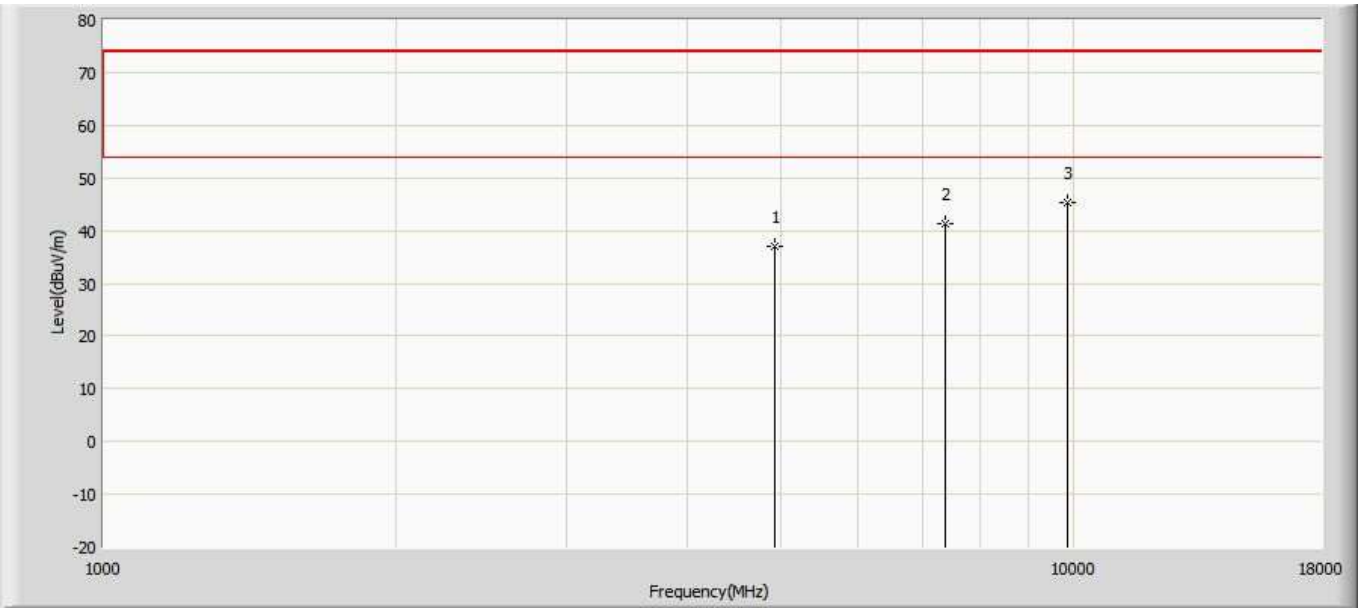
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	37.543	50.553	-36.457	74.000	-13.010	PK
2		7311.000	41.227	48.937	-32.773	74.000	-7.710	PK
3	*	9748.000	45.082	46.672	-28.918	74.000	-1.590	PK

Engineer:Slark	
Site: AC5	Time: 2017/08/03 - 18:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 3:Tranmsit at channel 2437MHz by 11n20	



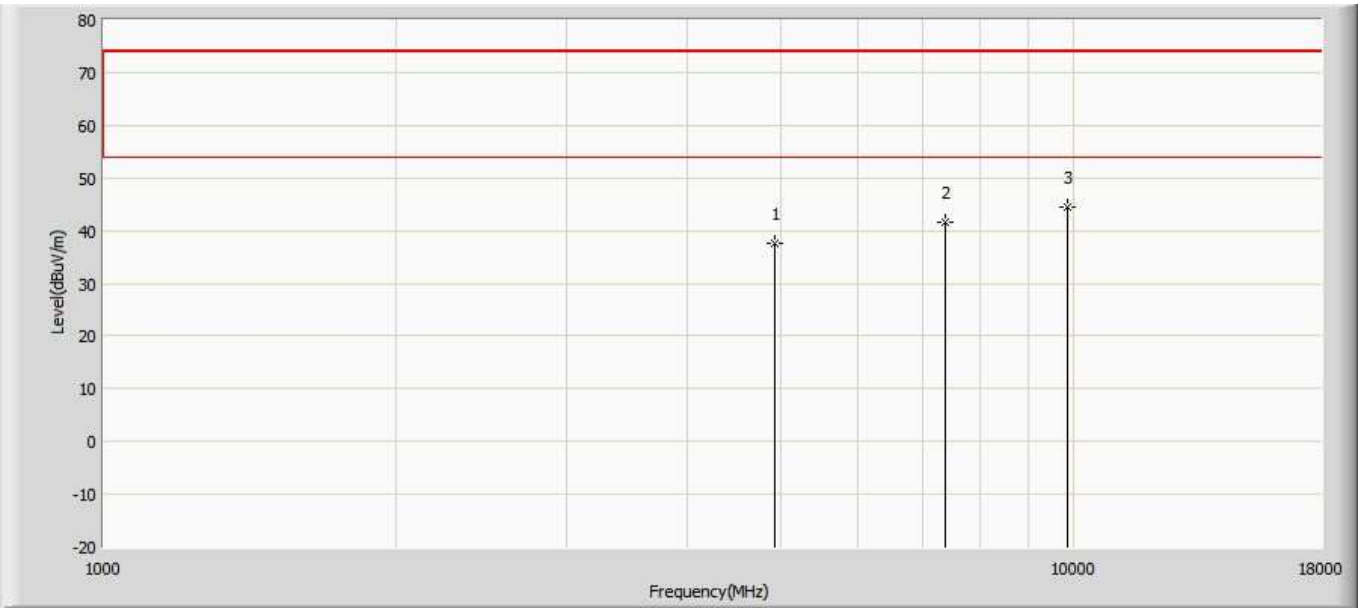
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4874.000	36.765	49.775	-37.235	74.000	-13.010	PK
2		7311.000	41.443	49.153	-32.557	74.000	-7.710	PK
3	*	9748.000	45.096	46.686	-28.904	74.000	-1.590	PK

Engineer:Slark	
Site: AC5	Time: 2017/08/03 - 18:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 3:Tranmsit at channel 2462MHz by 11n20	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	37.099	50.109	-36.901	74.000	-13.010	PK
2		7386.000	41.235	48.945	-32.765	74.000	-7.710	PK
3	*	9848.000	45.455	47.045	-28.545	74.000	-1.590	PK

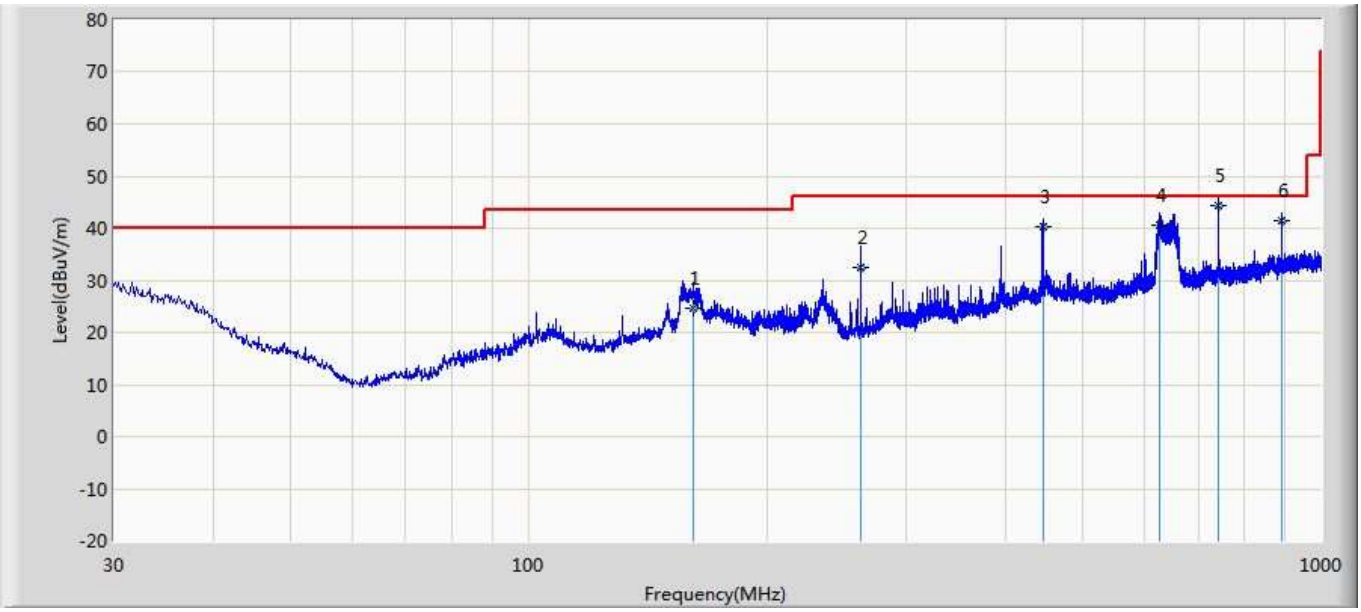
Engineer:Slark	
Site: AC5	Time: 2017/08/03 - 18:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 3:Tranmsit at channel 2462MHz by 11n20	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4924.000	37.532	50.542	-36.468	74.000	-13.010	PK
2		7386.000	41.744	49.454	-32.256	74.000	-7.710	PK
3	*	9848.000	44.337	45.927	-29.663	74.000	-1.590	PK

The worst case of Radiated Emission below 1GHz:

Engineer: Leon	
Site: AC3	Time: 2017/10/30
Limit: FCC_Part15.109_RE(3m)_ClassC	Margin: 0
Probe: AC3_3m (30-1000MHz)	Polarity: Horizontal
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHz by 802.11b	

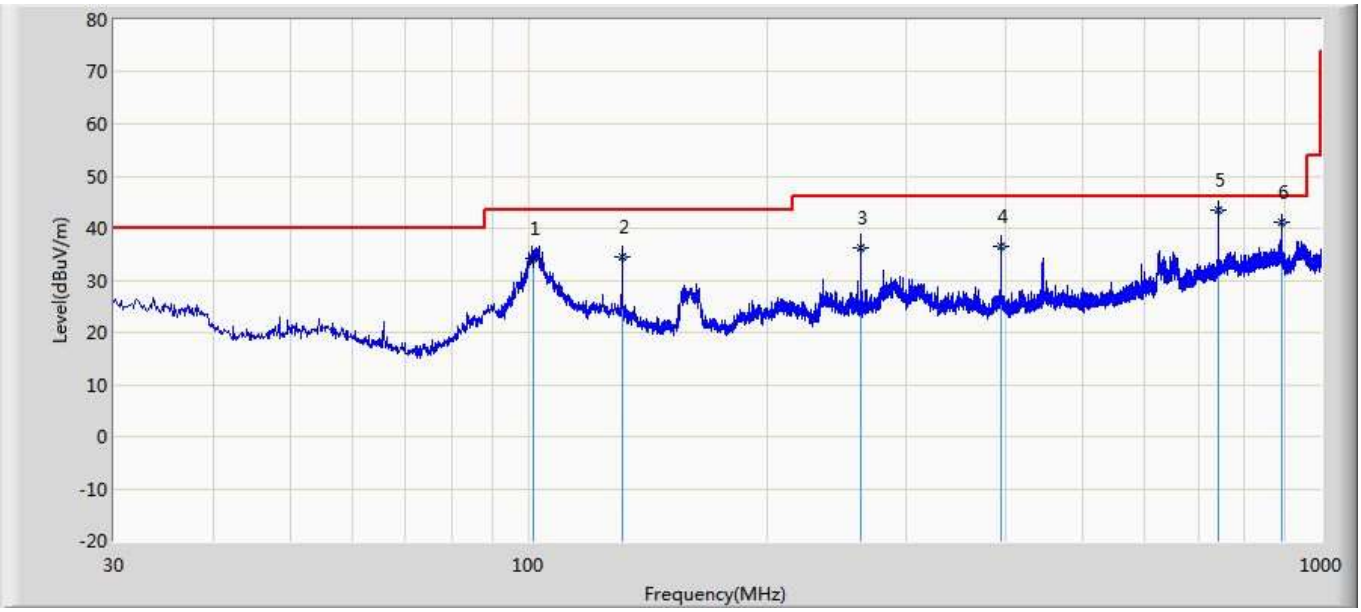


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		161.781	24.705	7.300	-18.795	43.500	10.279	7.127	0.000	100	328	QP
2		262.325	32.535	13.684	-13.465	46.000	11.354	7.498	0.000	100	97	QP
3		445.635	40.251	13.612	-5.749	46.000	18.611	8.028	0.000	100	71	QP
4		626.325	40.460	10.630	-5.540	46.000	21.334	8.496	0.000	100	149	QP
5	*	742.845	44.304	15.121	-1.696	46.000	20.428	8.755	0.000	100	94	QP
6		891.635	41.308	9.910	-4.692	46.000	22.317	9.081	0.000	100	42	QP

Note:

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

Engineer: Leon	
Site: AC3	Time: 2017/10/30
Limit: FCC_Part15.109_RE(3m)_ClassC	Margin: 0
Probe: AC3_3m (30-1000MHz)	Polarity: Vertical
EUT: GEYE 500	Power: AC 120V/60Hz
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)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		101.325	34.212	12.102	-9.288	43.500	15.249	6.861	0.000	200	152	QP
2		131.635	34.526	13.625	-8.974	43.500	13.901	7.000	0.000	100	196	QP
3		262.524	36.310	13.625	-9.690	46.000	15.187	7.497	0.000	100	78	QP
4		394.325	36.497	12.105	-9.503	46.000	16.503	7.889	0.000	100	91	QP
5	*	742.635	43.545	12.980	-2.455	46.000	21.810	8.755	0.000	100	328	QP
6		891.105	41.289	7.980	-4.711	46.000	24.229	9.080	0.000	100	62	QP

Note:

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

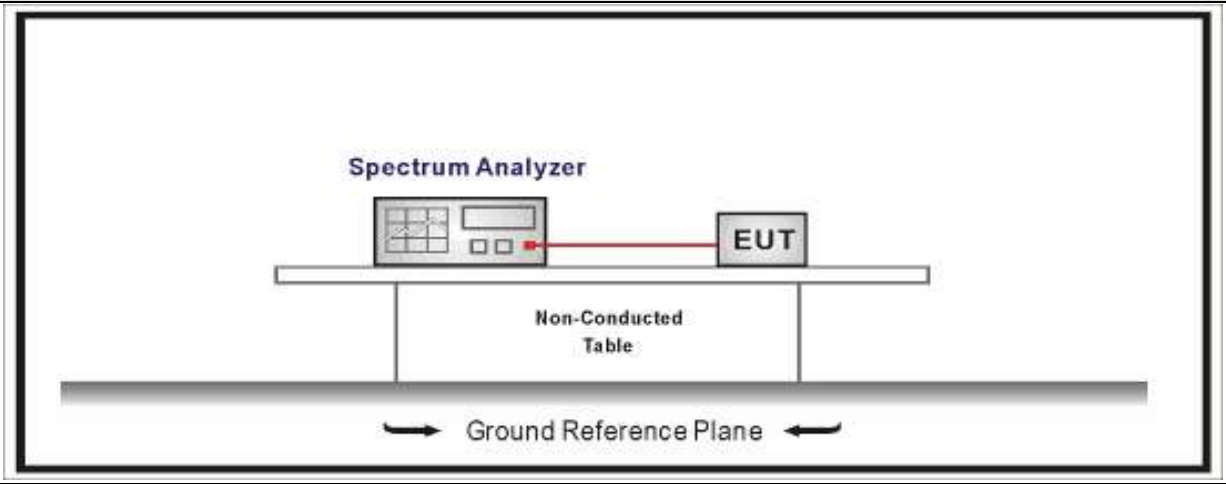
5. Emissions in non-restricted frequency bands

5.1. Test Equipment

Occupied Bandwidth / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2017.02.04	2018.02.03
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2017.04.09	2018.04.08
MXA Signal Anlyzer	Keysight	N9020A	MY56060147	2017.04.09	2018.04.08
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2017.04.10	2018.04.09
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

5.2. Test Setup

Occupied Bandwidth test setup:



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)

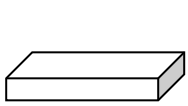
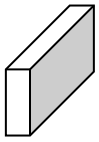
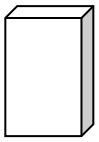
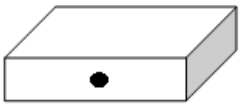
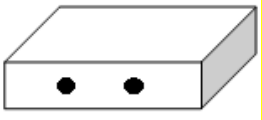
Note 1: If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc).

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
☐	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

5.5. EUT test Axis definition

<table>
<tr><td>Item</td><td colspan="4">Emissions in non-restricted frequency bands</td></tr>
<tr><td rowspan="2">Device Category</td><td>☒</td><td colspan="3">Fixed position use</td></tr>
<tr><td>☐</td><td colspan="3">Mobile position use</td></tr>
<tr><td>Test mode</td><td colspan="4">Mode 1 ~ Mode 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 0</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☐</td><td>Chain 0</td><td colspan="2">Chain 1</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☐</td><td>Chain 0</td><td>Chain 1</td><td>Chain 2</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
</table>

5.6. Test Result

Product Name	:	GEYE 500	Power	:	AC 120V/60Hz
Test Mode	:	Mode1~3	Test Site	:	TR8
Test Date	:	2017.08.31			

Antenna #1

Mode	Channel	Test Frequency (MHz)	In-Band PSD[a] (dBm/100kHz)	Frequency (MHz)	Out-Band PSD[b] (dBm/100kHz)	[a]-[b] (dB)	Limit (dB)	Result
1	01	2412	7.778	2400	-33.885	41.663	>30	Pass
1	11	2462	9.142	2500	-51.075	60.217	>30	Pass
2	01	2412	4.753	2400	-26.958	31.711	>30	Pass
2	11	2462	2.359	2500	-53.213	55.572	>30	Pass
3	01	2412	3.421	2400	-32.049	35.470	>30	Pass
3	11	2462	2.239	2500	-53.714	55.953	>30	Pass

Note 1: The worst case of Emissions in non-restricted frequency bands as below:

2: As the radiated emission was performed, so conducted emission was only tested for the nearest emission of fundamental frequency.

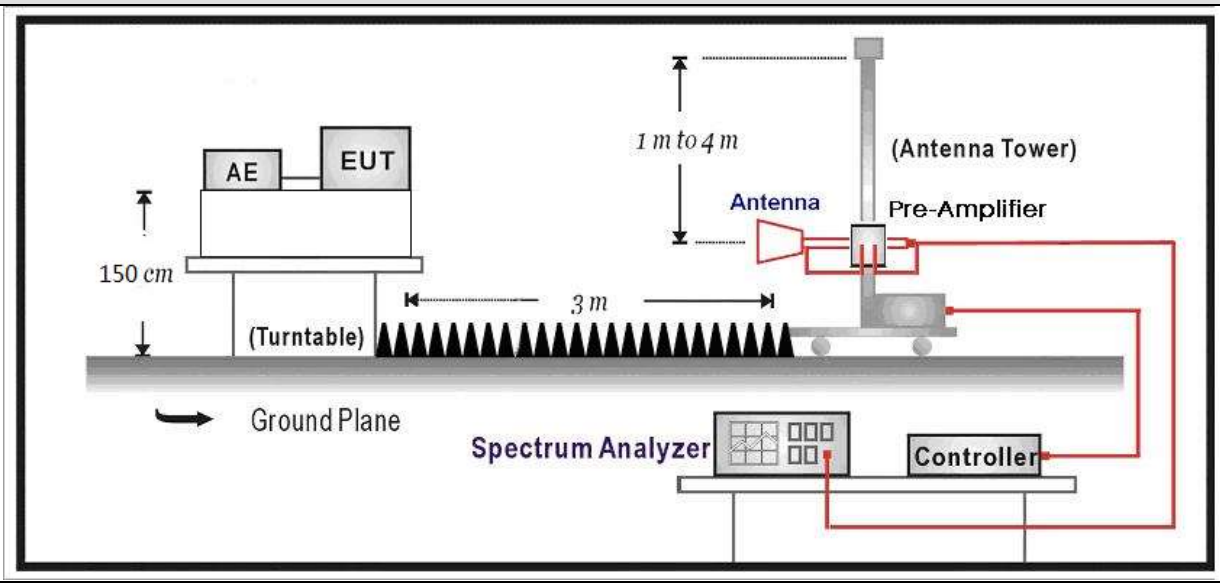
Mode 2 CH01(2412MHz)

6. Radiated Emission Band Edge

6.1. Test Equipment

Radiated Emission(Above 1GHz) / AC-5					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Receiver	Agilent	N9038A	MY51210196	2017.07.16	2018.07.15
Pre-Amplifier	Miteq	NSP1800-25	1364185	2017.05.03	2018.05.02
DRG Horn Antenna	ETS-Lindgren	3117	00167055	2017.07.12	2018.07.11
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2017.09.18	2018.09.17
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2017.02.28	2018.02.27
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2017.02.28	2018.02.27
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2017.01.05	2018.01.04
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

6.2. Test Setup

Above 1GHz Test Setup:


6.3. Limit

Band edge Limit				
Frequency bands (MHz)	Detector	Limit (dBµV/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		11.12.2.3	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><td>Item</td><td colspan="4">Emissions in non-restricted frequency bands</td></tr>
<tr><td rowspan="2">Device Category</td><td>☒</td><td colspan="3">Fixed position use</td></tr>
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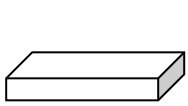
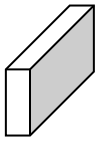
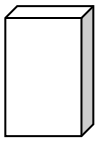
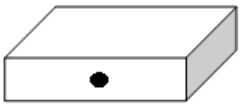
<tr><td>Test mode</td><td colspan="4">Mode 1~4</td></tr>
<tr><td rowspan="11">Test method</td><td>☒</td><td colspan="3">Radiated</td></tr>
<tr><td rowspan="3"></td><td>X Axis</td><td>Y Axis</td><td>Z Axis</td></tr>
<tr><td>  </td><td>  </td><td>  </td></tr>
<tr><td>Worst Axis ☐</td><td>Worst Axis ☐</td><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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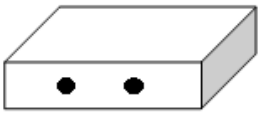
<tr><td></td><td colspan="3">  </td></tr>
<tr><td>☐</td><td>Chain 1</td><td>Chain 2</td><td>Chain 3</td></tr>
<tr><td></td><td colspan="3">  </td></tr>
</table>

6.6. Duty Cycle

Test Mode	Tx On (ms)	Tx Off (ms)	VBW	Tx On + Tx Off (ms)	Duty Cycle
802.11b	N/A	N/A	10Hz	N/A	100%
802.11g	1.428	0.033	750Hz	1.461	97.74%
802.11n(20MHz)	1.333	0.030	820Hz	1.363	97.80%

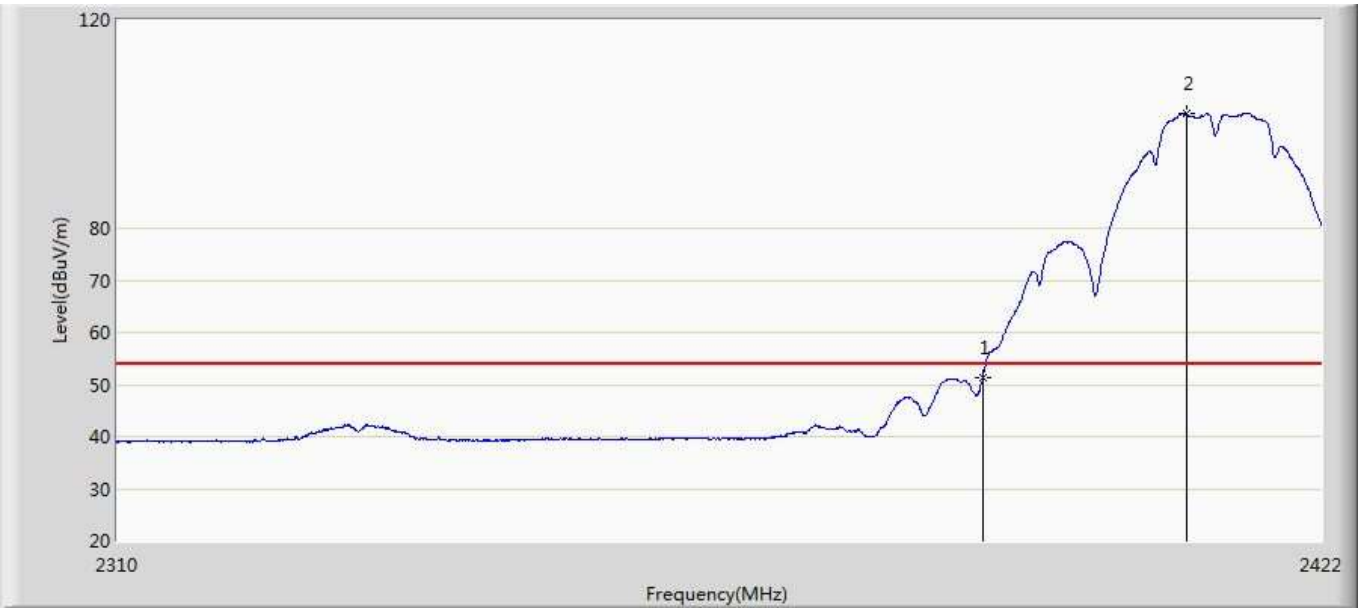
802.11b

802.11g

802.11n(20MHz)

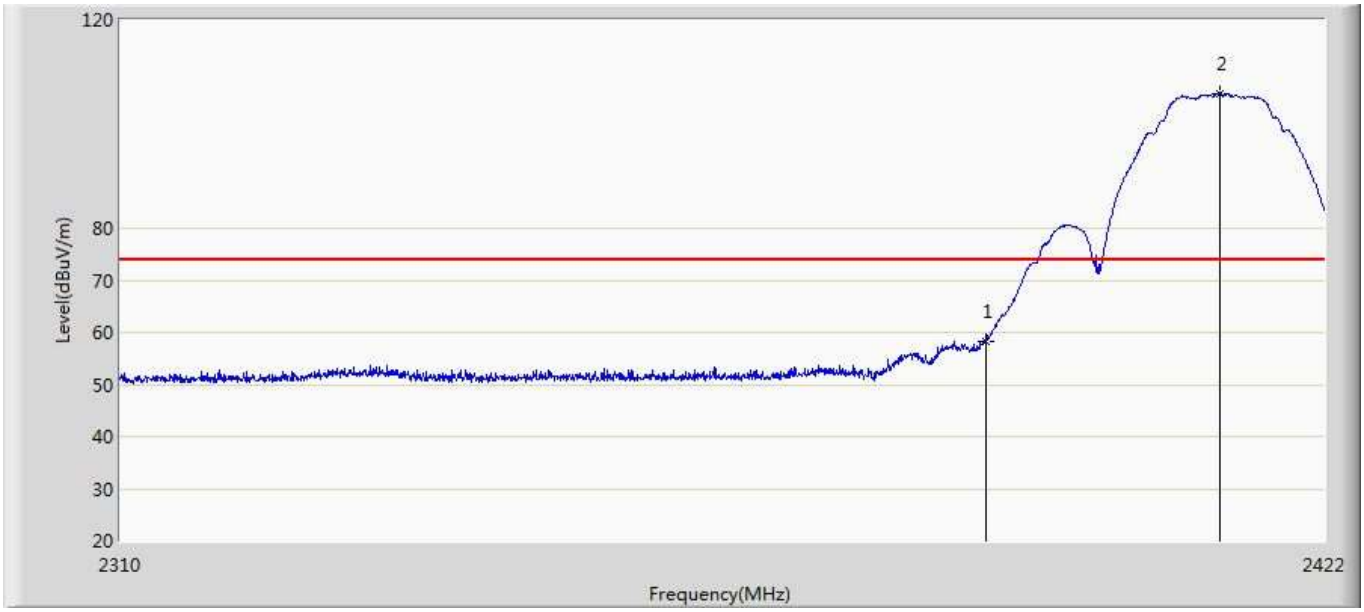
6.7. Test Result

Engineer:Slark	
Site: AC5	Time: 2017/08/21 - 09:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 1:Transmit at channel 2412MHz by 11b	



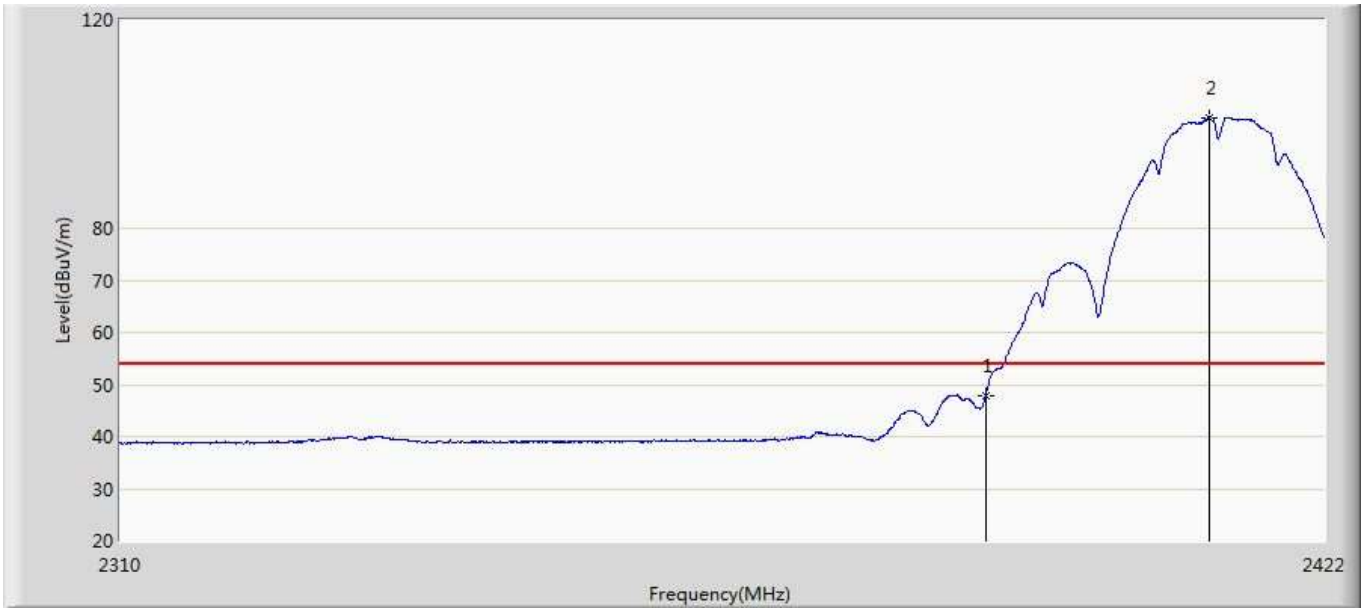
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	51.162	15.076	-2.838	54.000	36.086	AV
2	*	2409.232	101.910	65.758	47.910	54.000	36.152	AV

Engineer:Slark	
Site: AC5	Time: 2017/08/21 - 10:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 1:Transmit at channel 2412MHz by 11b	



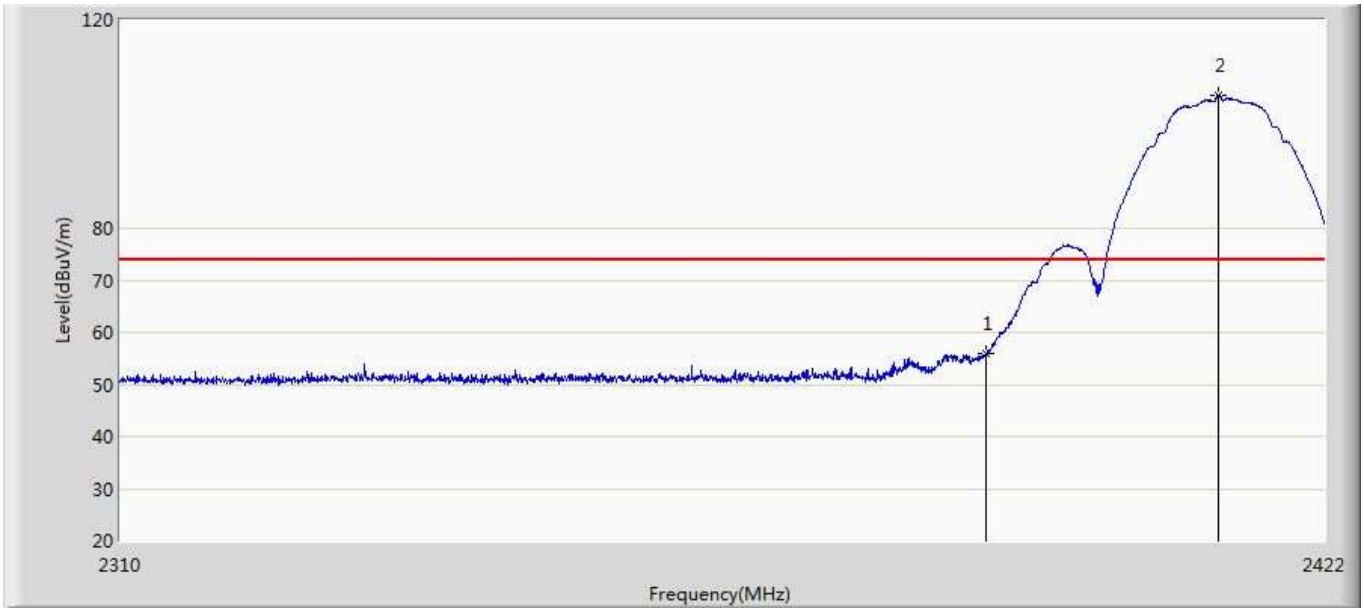
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	58.174	22.088	-15.826	74.000	36.086	PK
2	*	2412.088	105.888	69.729	31.888	74.000	36.159	PK

Engineer:Slark	
Site: AC5	Time: 2017/08/21 - 10:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 1:Transmit at channel 2412MHz by 11b	



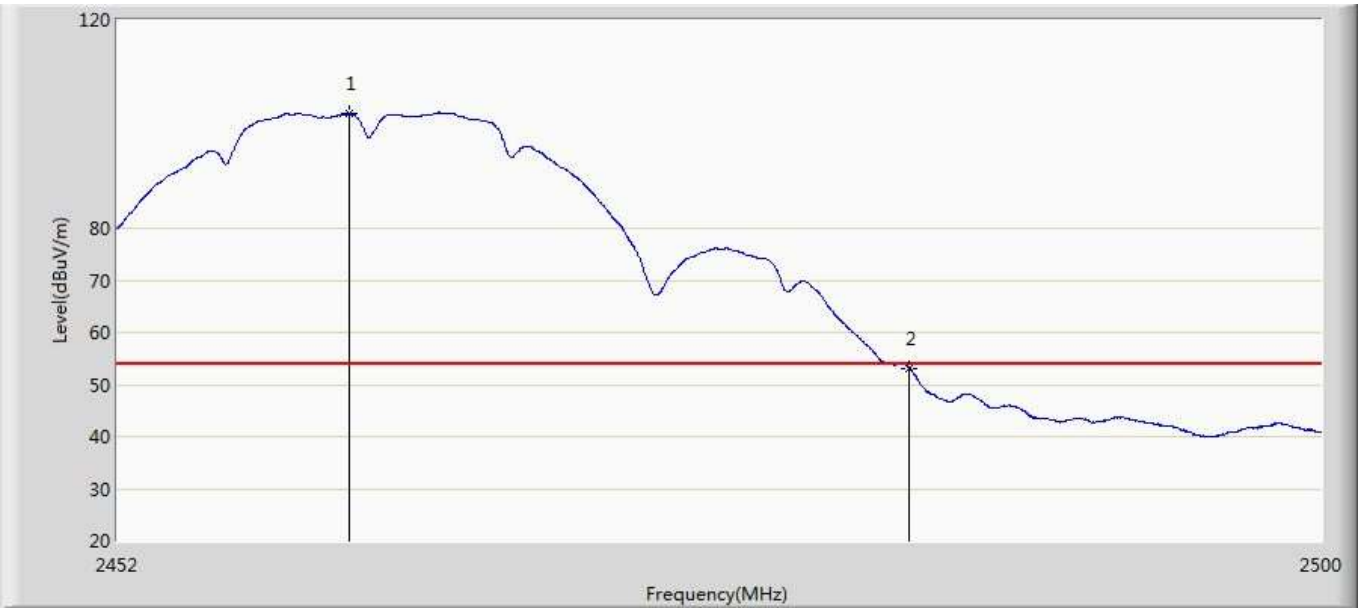
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	47.742	11.656	-6.258	54.000	36.086	AV
2	*	2411.080	101.269	65.110	47.269	54.000	36.159	AV

Engineer:Slark	
Site: AC5	Time: 2017/08/21 - 10:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 1:Transmit at channel 2412MHz by 11b	



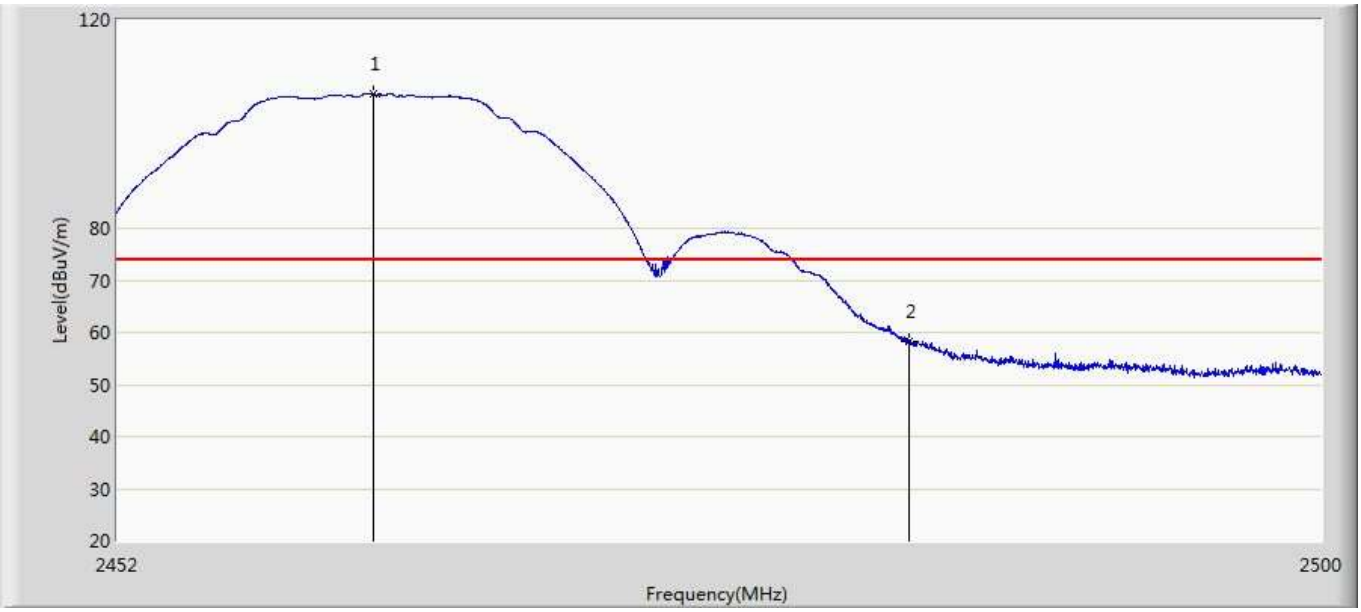
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	56.005	19.919	-17.995	74.000	36.086	PK
2	*	2411.976	105.574	69.415	31.574	74.000	36.159	PK

Engineer:Slark	
Site: AC5	Time: 2017/08/21 - 10:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 1:Transmit at channel 2462MHz by 11b	



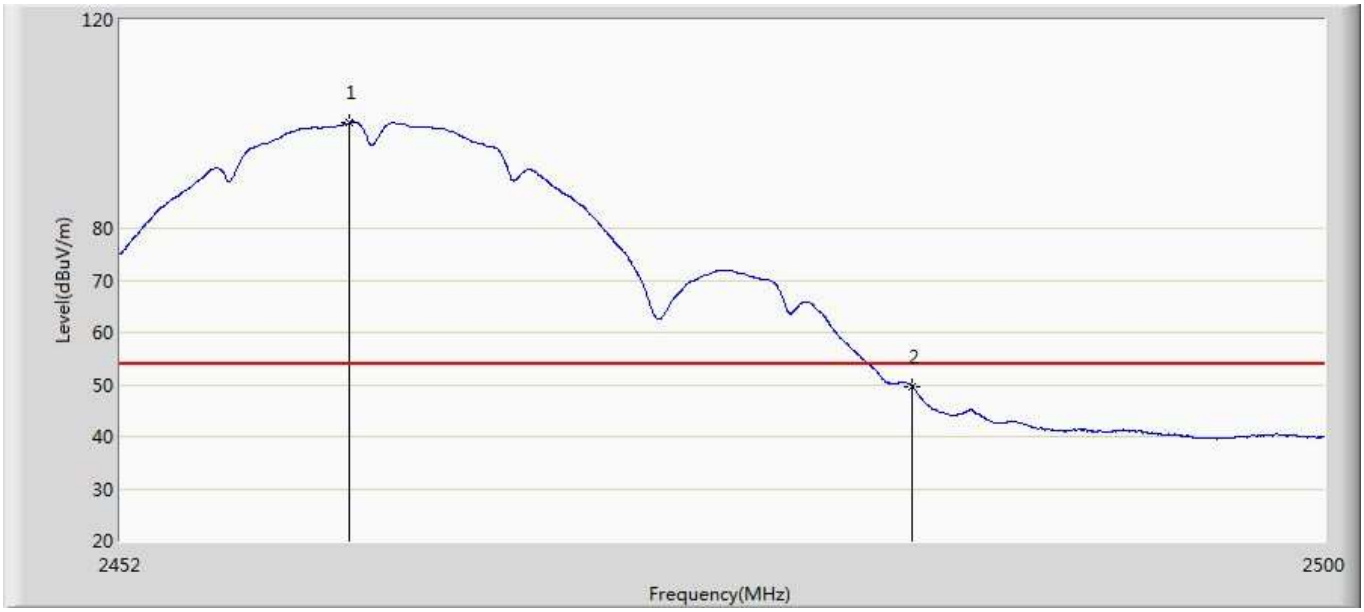
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2461.216	102.000	65.788	48.000	54.000	36.212	AV
2		2483.500	53.142	16.881	-0.858	54.000	36.261	AV

Engineer:Slark	
Site: AC5	Time: 2017/08/21 - 10:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 1:Transmit at channel 2462MHz by 11b	



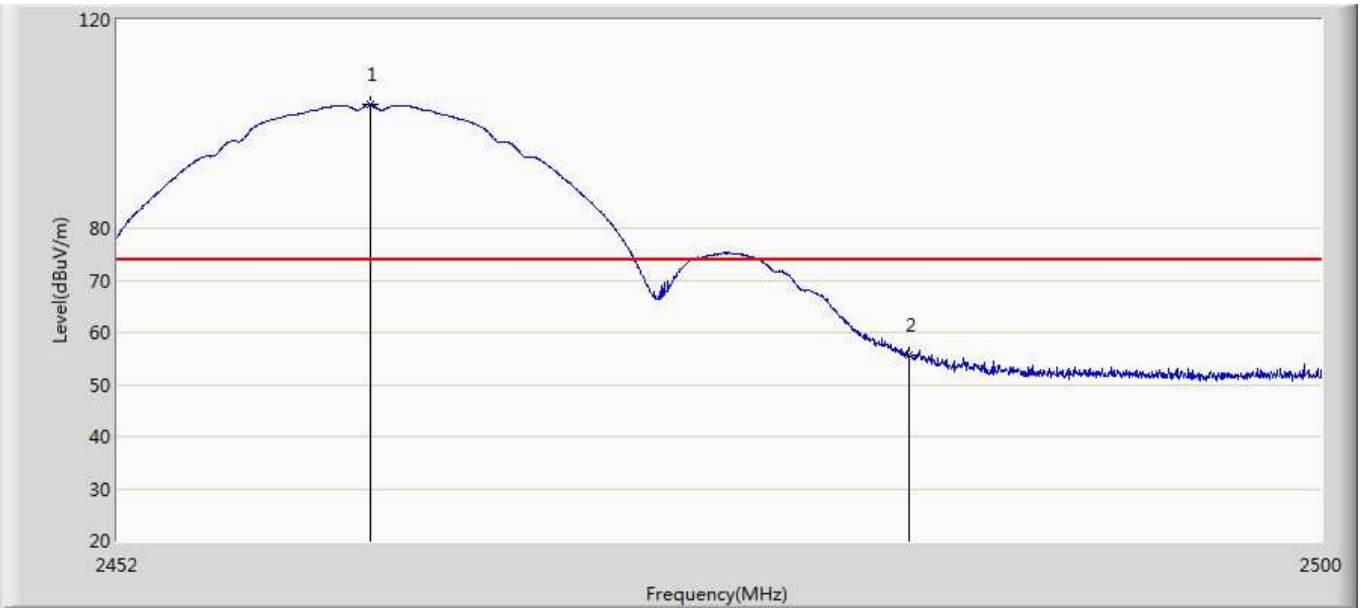
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2462.176	105.889	69.677	31.889	74.000	36.212	PK
2		2483.500	58.165	21.904	-15.835	74.000	36.261	PK

Engineer:Slark	
Site: AC5	Time: 2017/08/21 - 10:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 1:Transmit at channel 2462MHz by 11b	



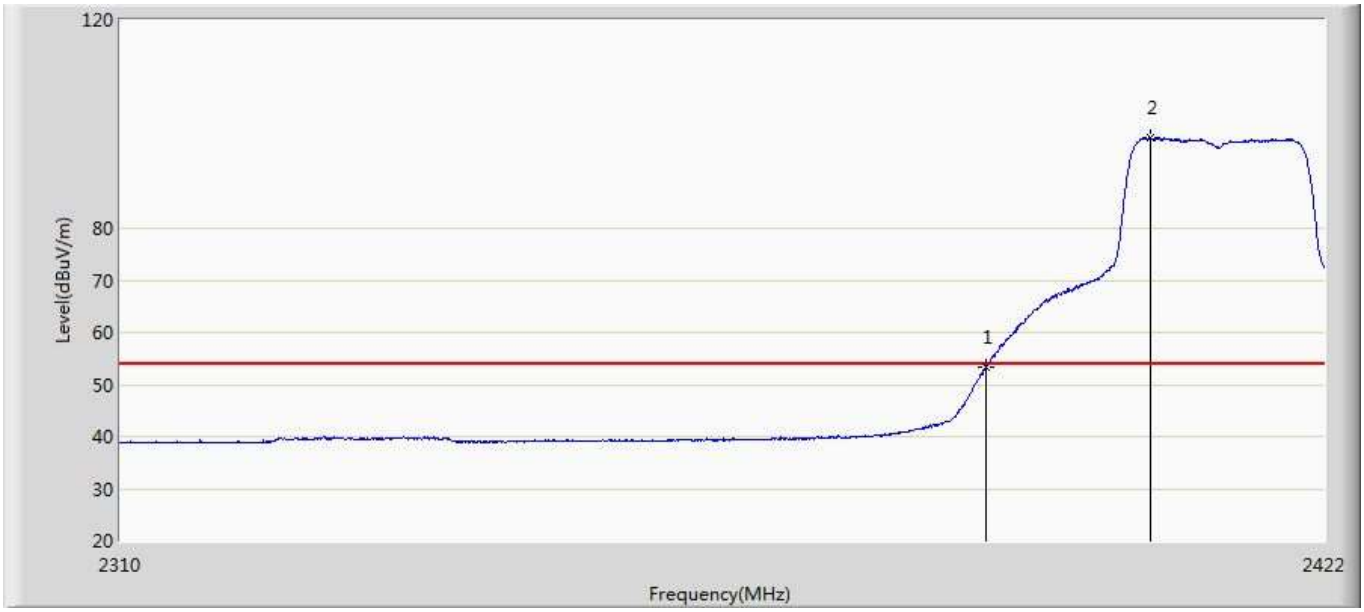
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2461.096	100.285	64.073	46.285	54.000	36.212	AV
2		2483.500	49.611	13.350	-4.389	54.000	36.261	AV

Engineer:Slark	
Site: AC5	Time: 2017/08/21 - 10:22
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 1:Transmit at channel 2462MHz by 11b	



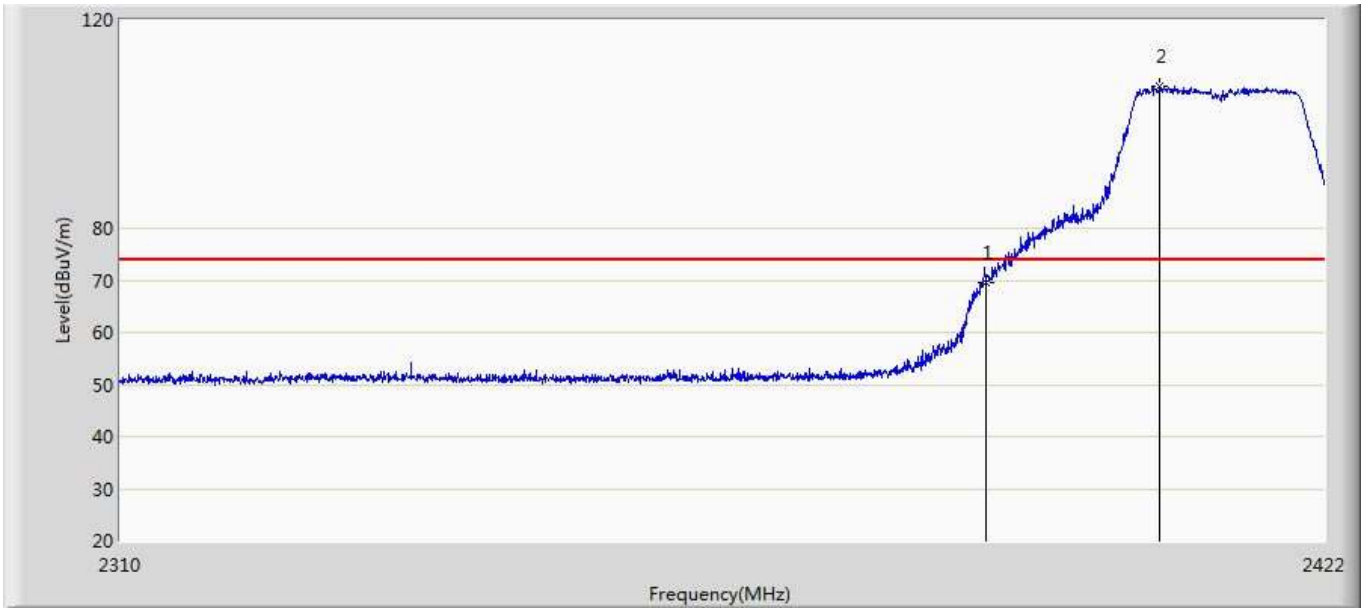
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2462.032	103.849	67.637	29.849	74.000	36.212	PK
2		2483.500	55.510	19.249	-18.490	74.000	36.261	PK

Engineer:Slark	
Site: AC5	Time: 2017/08/21 - 10:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 2:Transmit at channel 2412MHz by 11g	



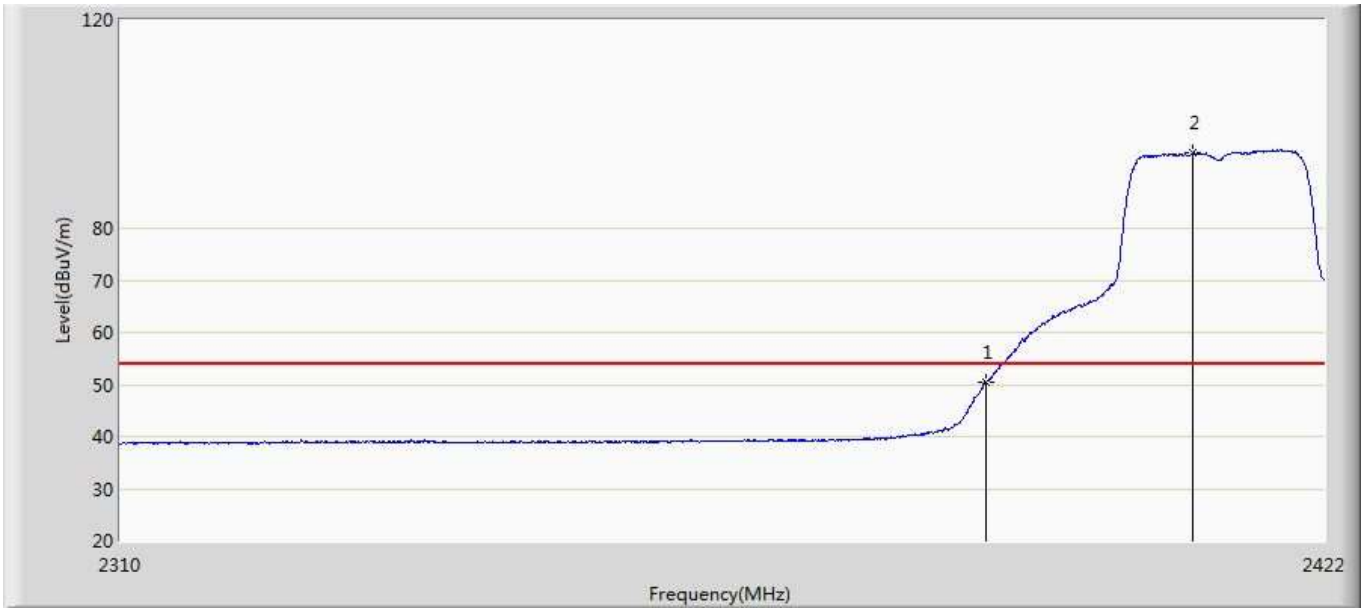
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.195	17.109	-0.805	54.000	36.086	AV
2	*	2405.480	97.323	61.185	43.323	54.000	36.138	AV

Engineer:Slark	
Site: AC5	Time: 2017/08/21 - 10:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 2:Transmit at channel 2412MHz by 11g	



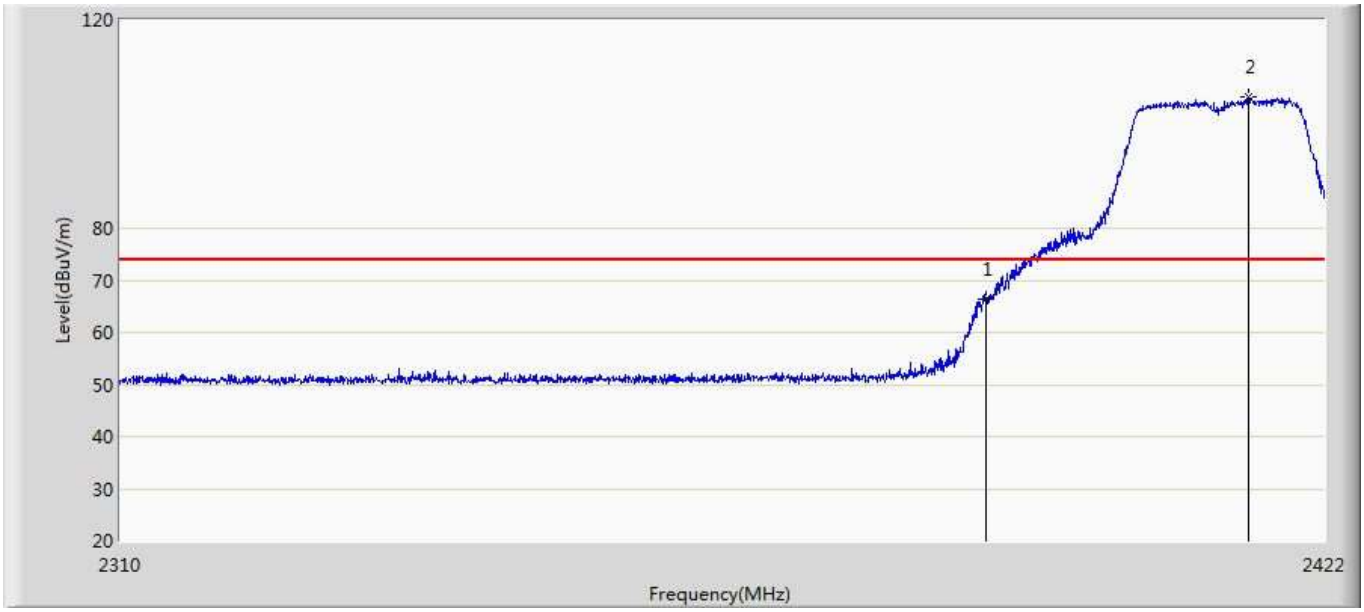
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	69.699	33.613	-4.301	74.000	36.086	PK
2	*	2406.376	107.264	71.123	33.264	74.000	36.142	PK

Engineer:Slark	
Site: AC5	Time: 2017/08/21 - 10:32
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 2:Transmit at channel 2412MHz by 11g	



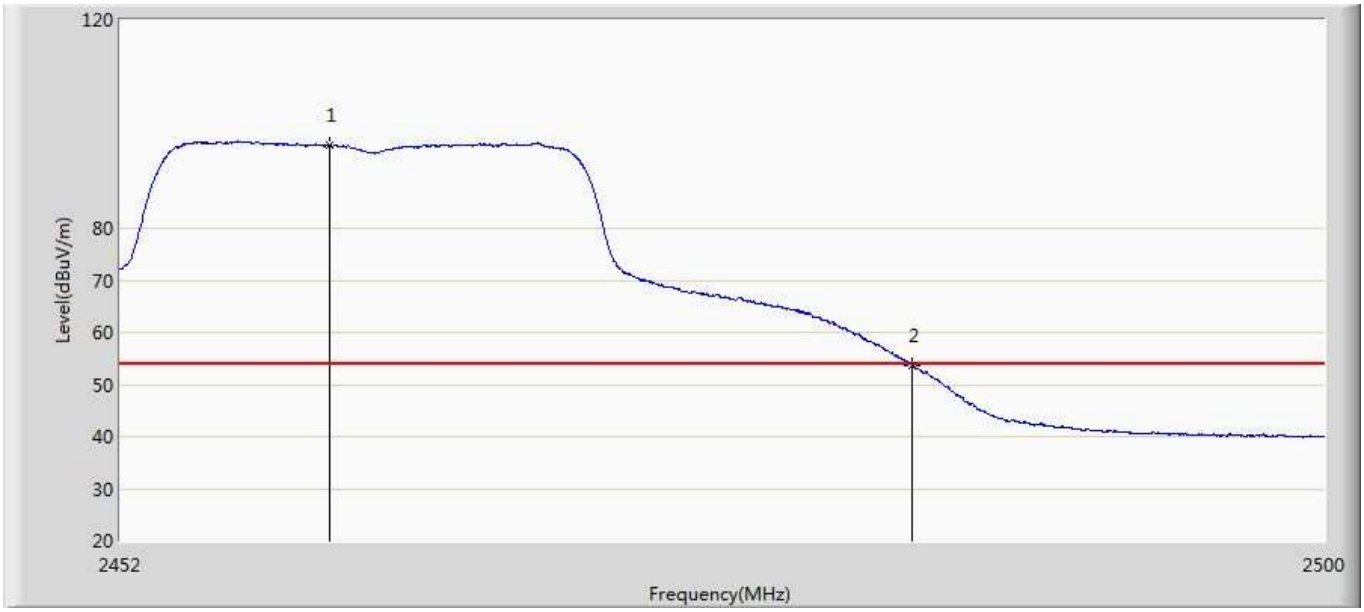
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	50.526	14.440	-3.474	54.000	36.086	AV
2	*	2409.568	94.528	58.374	40.528	54.000	36.153	AV

Engineer:Slark	
Site: AC5	Time: 2017/08/21 - 10:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 2:Transmit at channel 2412MHz by 11g	



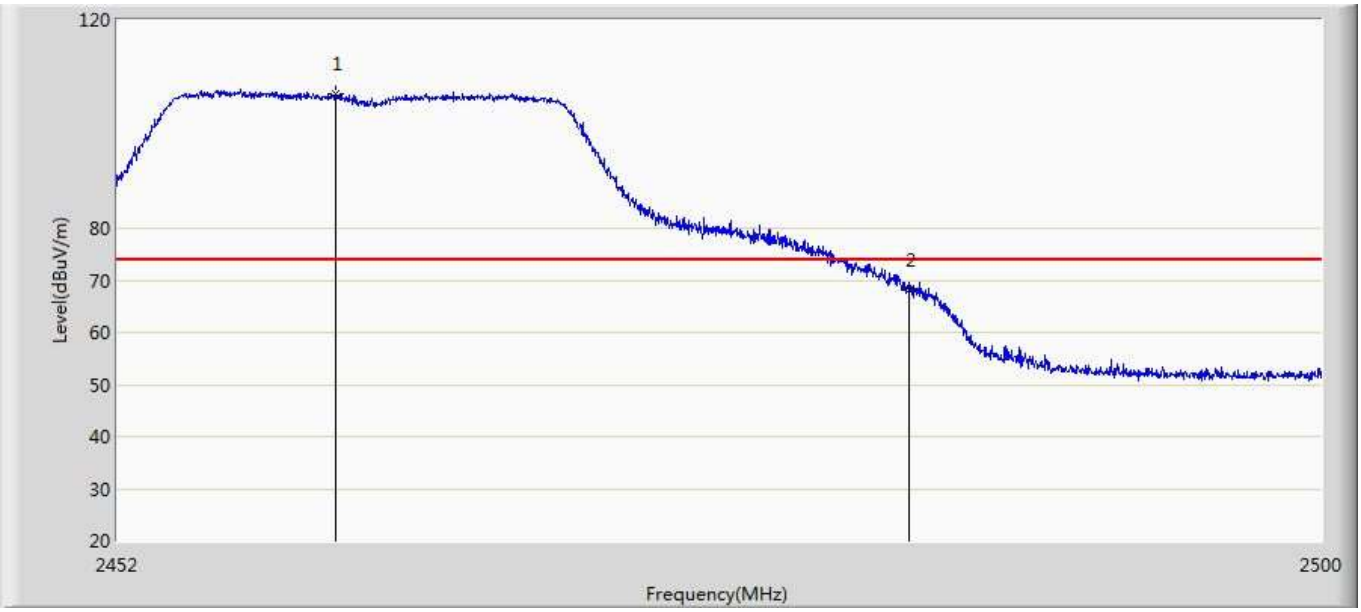
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	66.310	30.224	-7.690	74.000	36.086	PK
2	*	2414.776	105.336	69.176	31.336	74.000	36.161	PK

Engineer:Slark	
Site: AC5	Time: 2017/08/21 - 10:36
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 2:Transmit at channel 2462MHz by 11g	



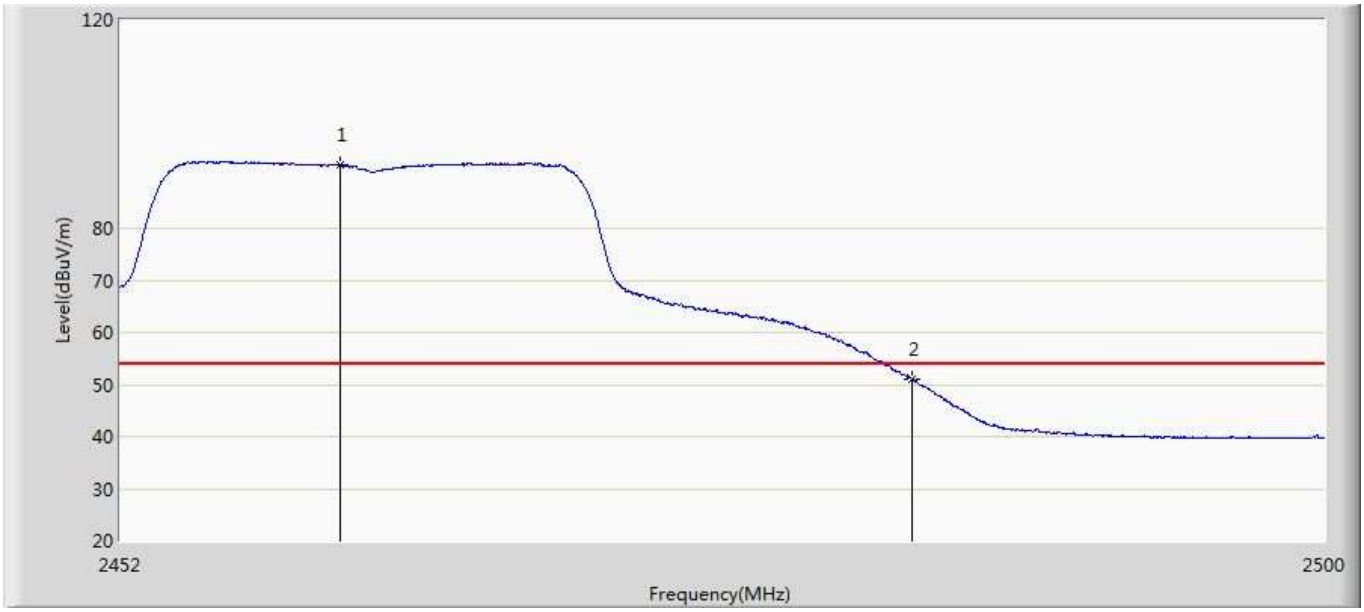
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2460.280	95.972	59.759	41.972	54.000	36.213	AV
2		2483.500	53.706	17.444	-0.294	54.000	36.261	AV

Engineer:Slark	
Site: AC5	Time: 2017/08/21 - 10:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 2:Transmit at channel 2462MHz by 11g	



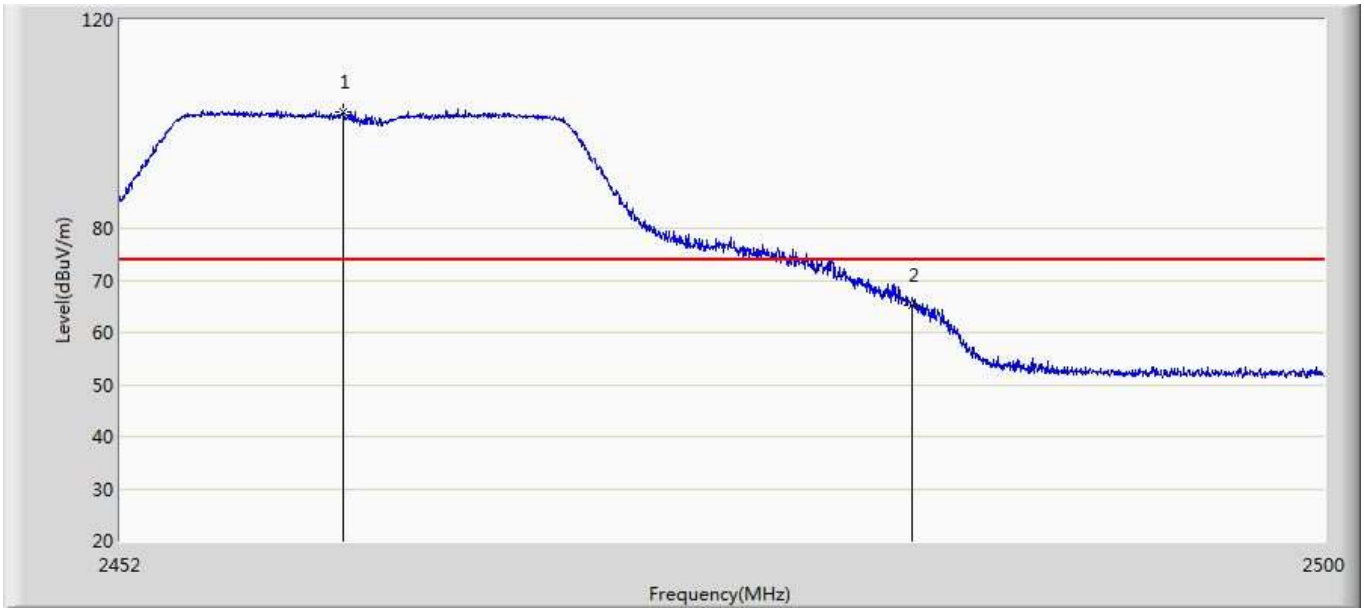
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2460.664	105.936	69.723	31.936	74.000	36.212	PK
2		2483.500	68.025	31.764	-5.975	74.000	36.261	PK

Engineer:Slark	
Site: AC5	Time: 2017/08/21 - 10:45
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 2:Transmit at channel 2462MHz by 11g	



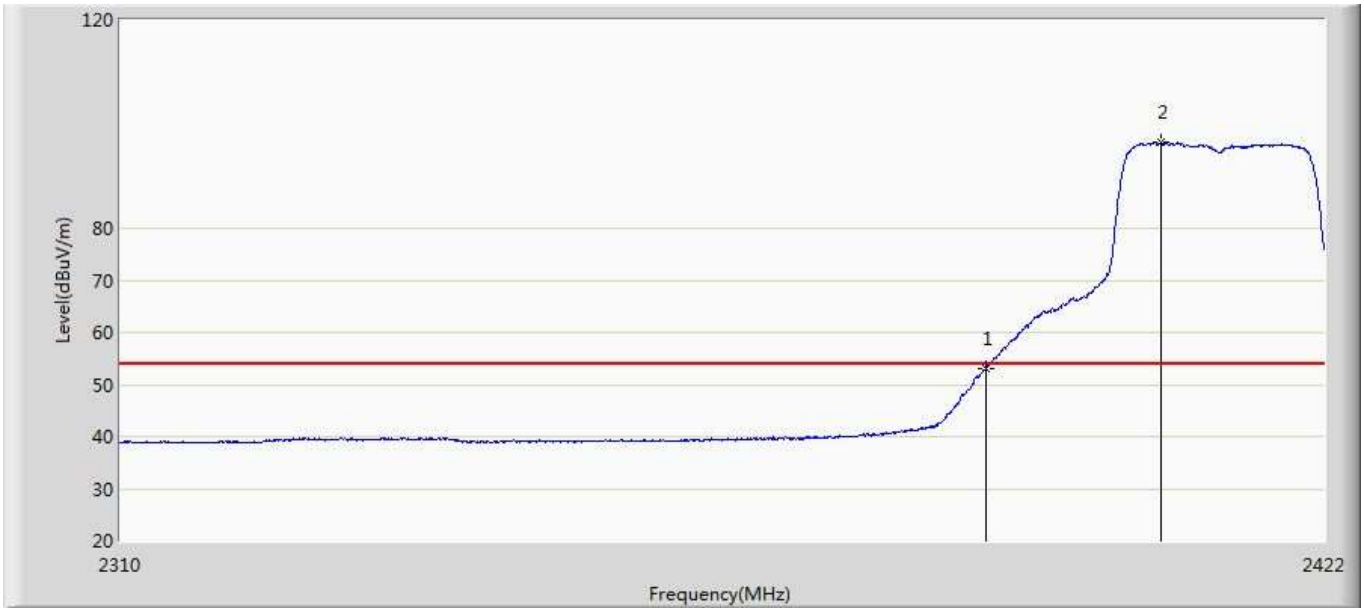
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2460.688	92.279	56.066	38.279	54.000	36.212	AV
2		2483.500	51.133	14.872	-2.867	54.000	36.261	AV

Engineer:Slark	
Site: AC5	Time: 2017/08/21 - 10:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 2:Transmit at channel 2462MHz by 11g	



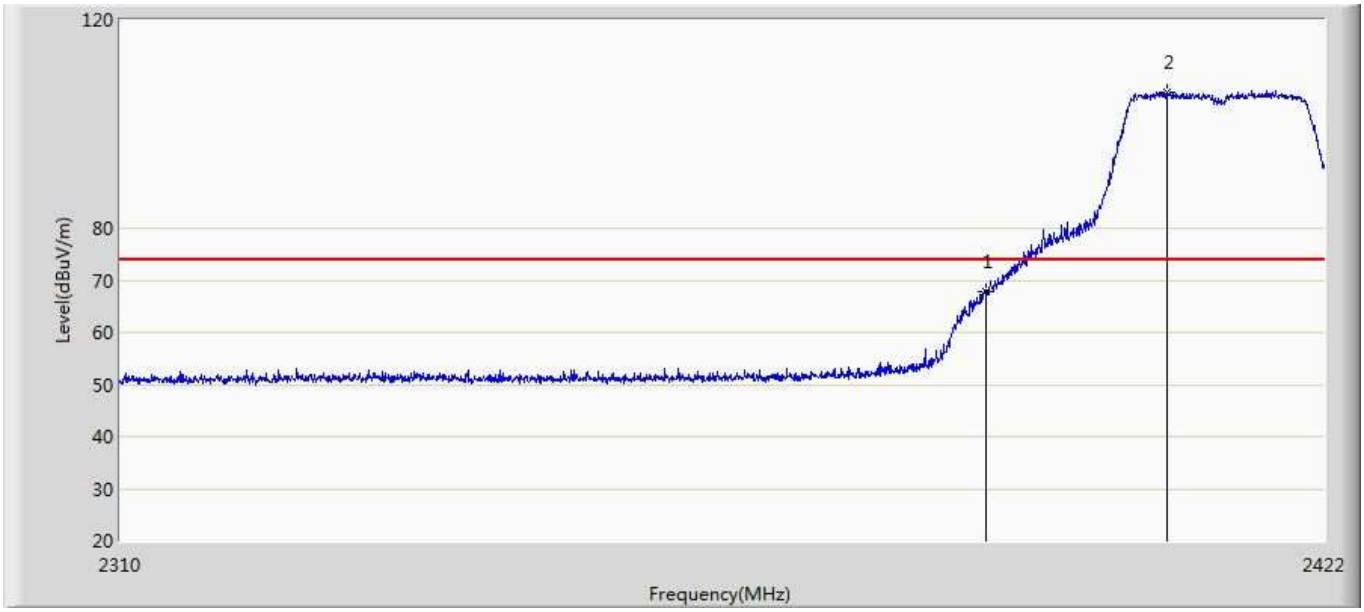
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2460.832	102.264	66.051	28.264	74.000	36.213	PK
2		2483.500	65.296	29.034	-8.704	74.000	36.261	PK

Engineer:Slark	
Site: AC5	Time: 2017/08/21 - 10:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 3:Transmit at channel 2412MHz by 11n20	



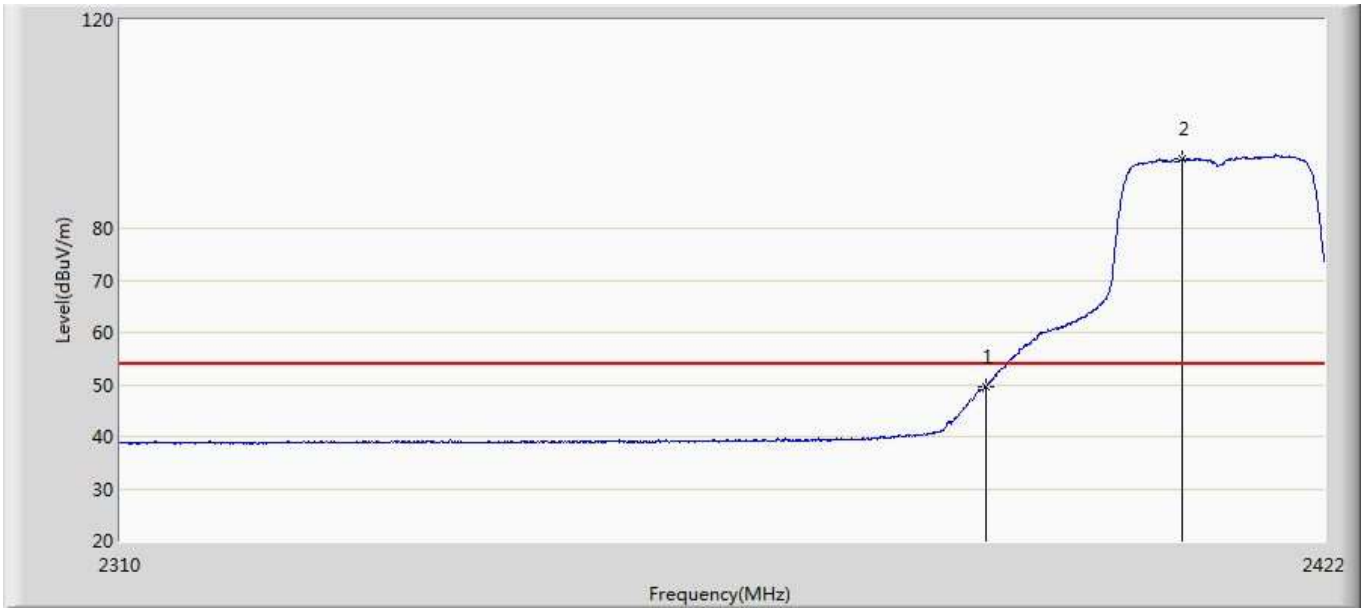
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	53.088	17.002	-0.912	54.000	36.086	AV
2	*	2406.544	96.608	60.466	42.608	54.000	36.142	AV

Engineer:Slark	
Site: AC5	Time: 2017/08/21 - 11:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 3:Transmit at channel 2412MHz by 11n20	



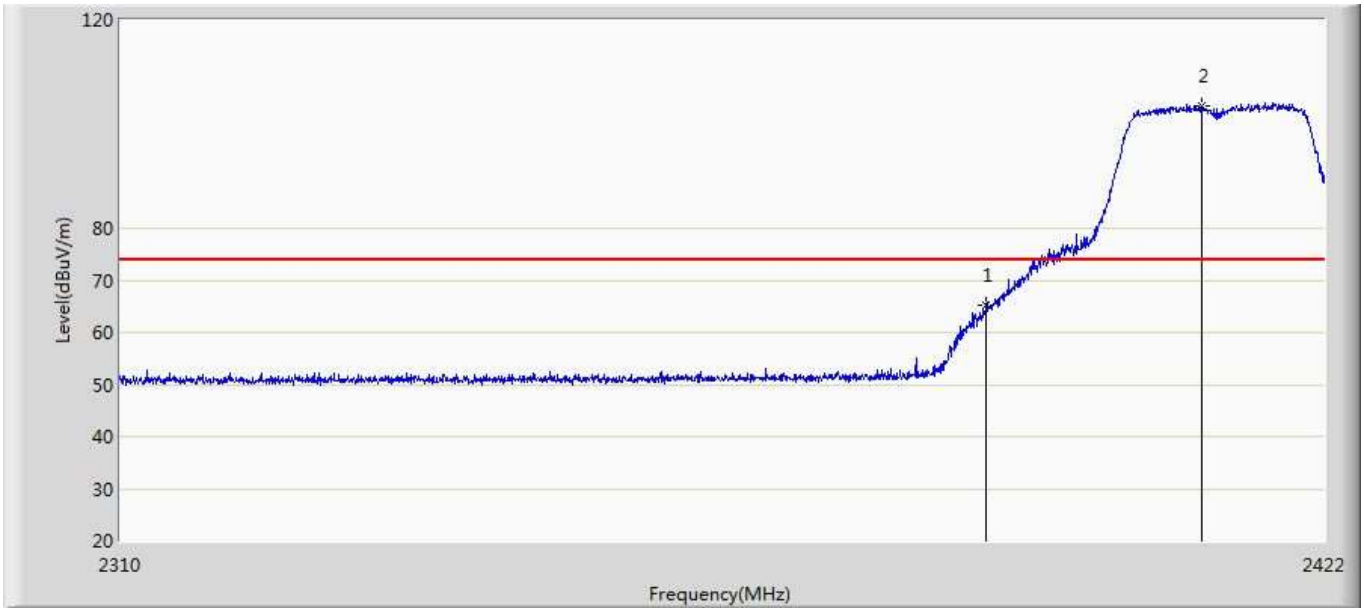
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	67.845	31.759	-6.155	74.000	36.086	PK
2	*	2407.048	106.121	69.977	32.121	74.000	36.144	PK

Engineer:Slark	
Site: AC5	Time: 2017/08/21 - 11:15
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 3:Transmit at channel 2412MHz by 11n20	



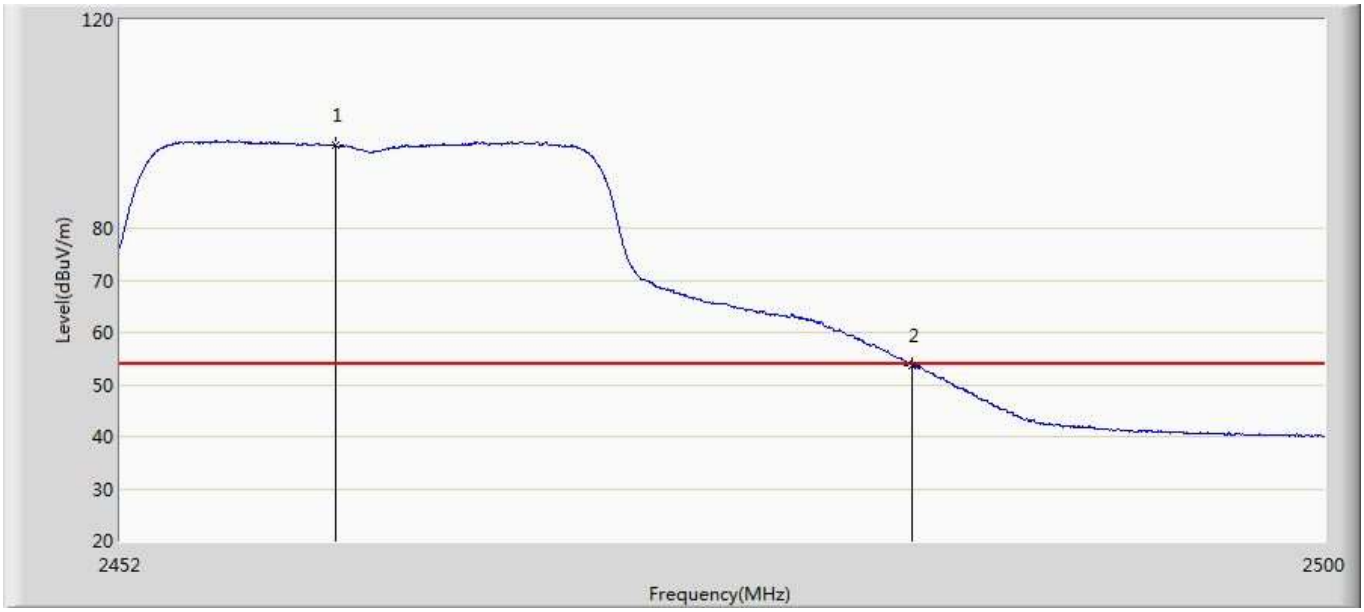
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	49.544	13.458	-4.456	54.000	36.086	AV
2	*	2408.504	93.206	57.057	39.206	54.000	36.149	AV

Engineer:Slark	
Site: AC5	Time: 2017/08/21 - 11:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 3:Transmit at channel 2412MHz by 11n20	



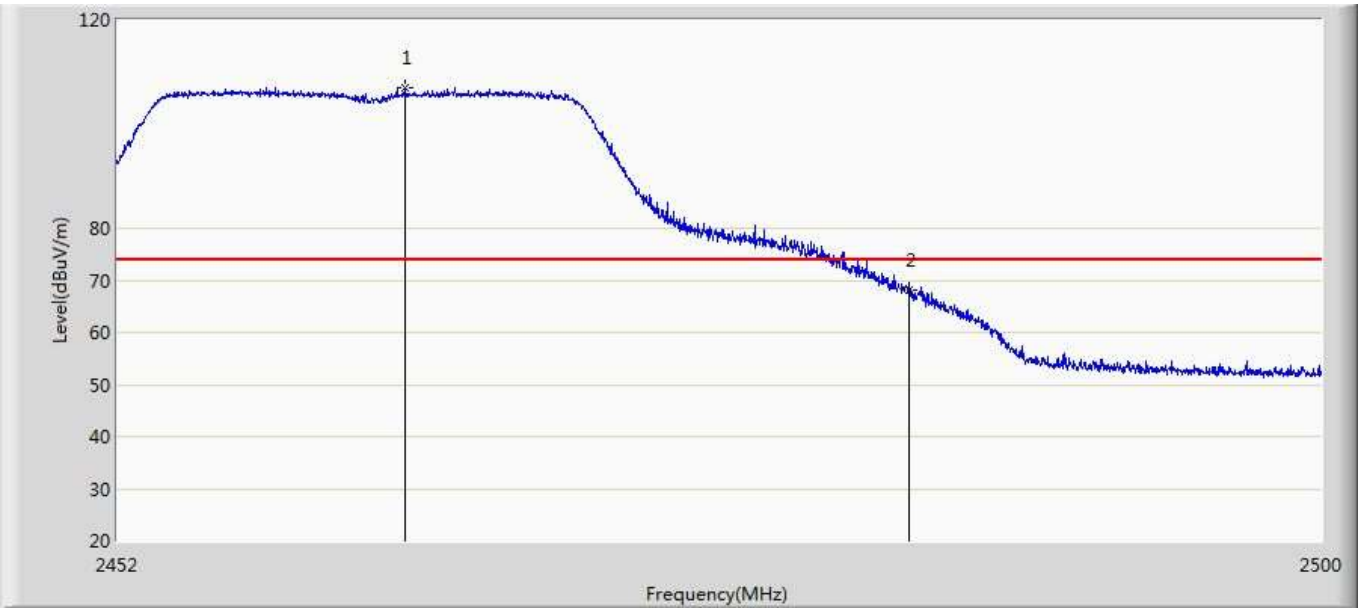
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2390.000	65.114	29.028	-8.886	74.000	36.086	PK
2	*	2410.408	103.514	67.357	29.514	74.000	36.156	PK

Engineer:Slark	
Site: AC5	Time: 2017/08/21 - 11:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 3:Transmit at channel 2462MHz by 11n20	



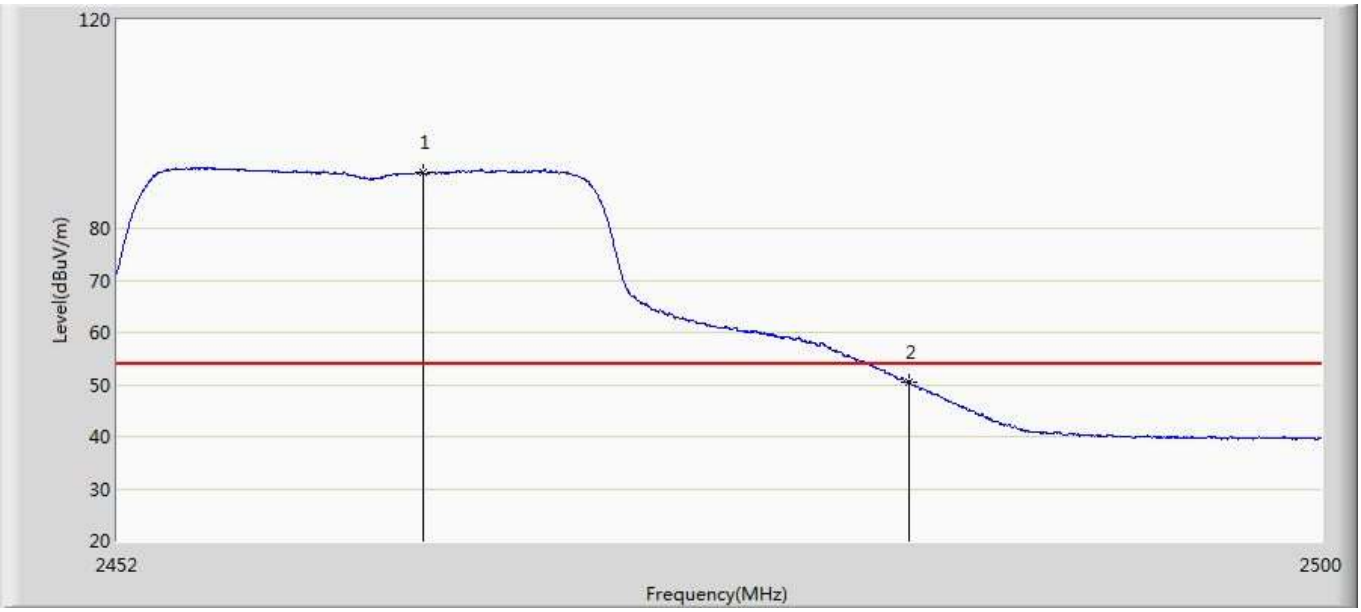
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2460.520	95.939	59.726	41.939	54.000	36.212	AV
2		2483.500	53.745	17.484	-0.255	54.000	36.261	AV

Engineer:Slark	
Site: AC5	Time: 2017/08/21 - 11:24
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 3:Transmit at channel 2462MHz by 11n20	



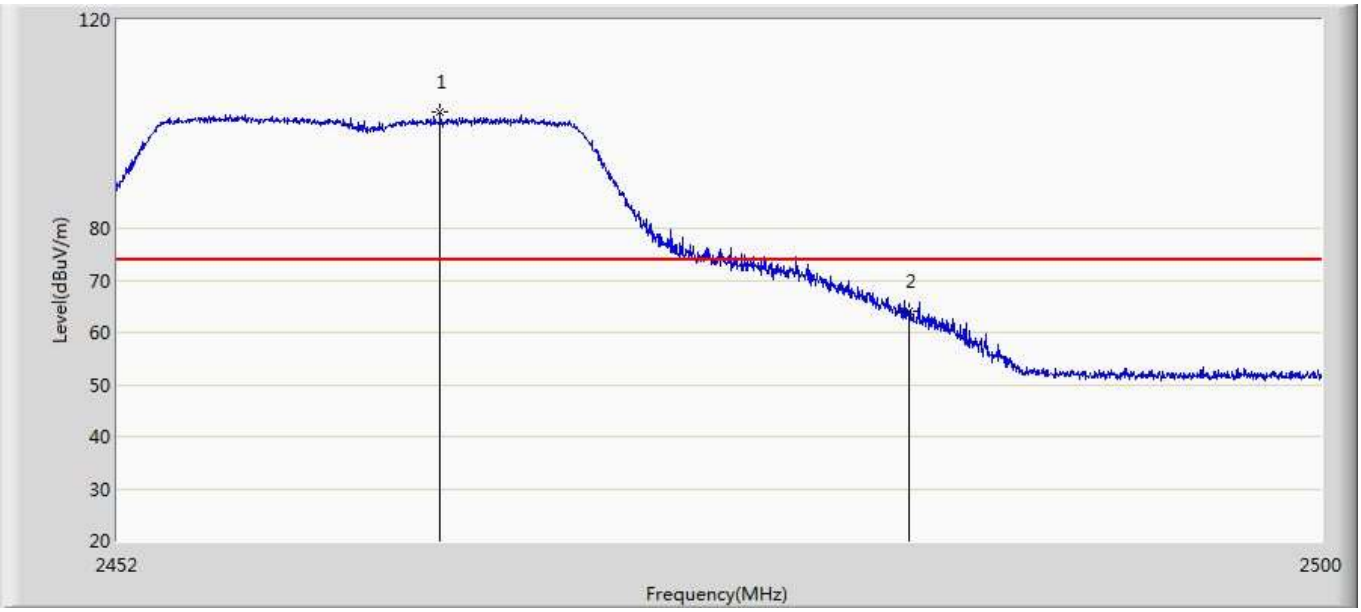
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2463.376	106.858	70.643	32.858	74.000	36.215	PK
2		2483.500	68.183	31.922	-5.817	74.000	36.261	PK

Engineer:Slark	
Site: AC5	Time: 2017/08/21 - 11:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 3:Transmit at channel 2462MHz by 11n20	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2464.120	90.666	54.450	36.666	54.000	36.217	AV
2		2483.500	50.540	14.279	-3.460	54.000	36.261	AV

Engineer:Slark	
Site: AC5	Time: 2017/08/21 - 11:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: GEYE 500	Power: AC 120V/60Hz
Note: Mode 3:Transmit at channel 2462MHz by 11n20	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2464.792	102.209	65.991	28.209	74.000	36.217	PK
2		2483.500	64.007	27.745	-9.993	74.000	36.261	PK

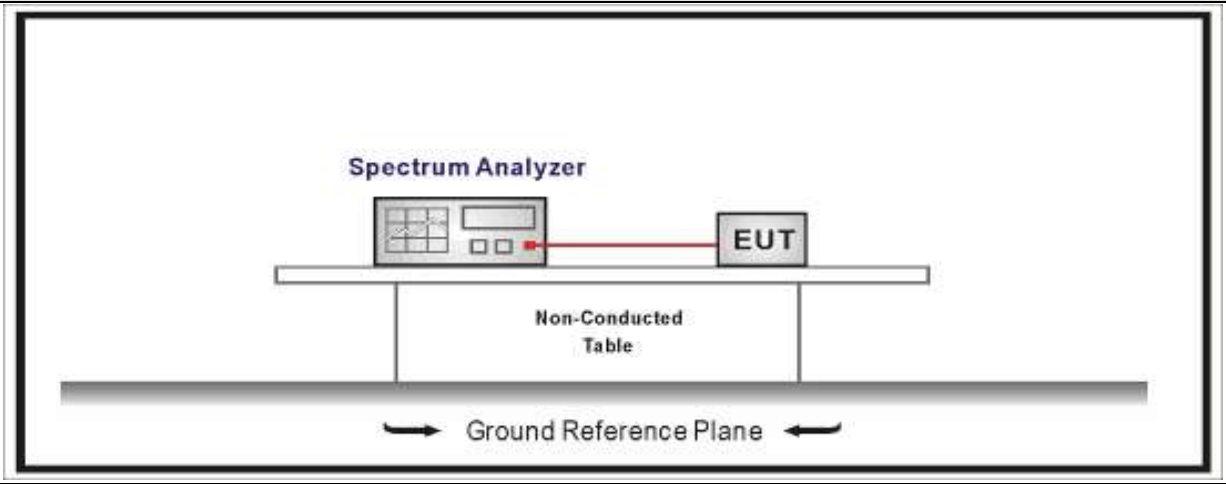
7. Occupied Bandwidth

7.1. Test Equipment

Occupied Bandwidth / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2017.02.04	2018.02.03
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2017.04.09	2018.04.08
MXA Signal Anlyzer	Keysight	N9020A	MY56060147	2017.04.09	2018.04.08
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2017.04.10	2018.04.09
Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

7.2. Test Setup

Occupied Bandwidth test setup:



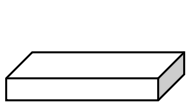
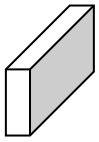
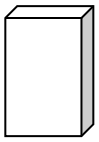
7.3. Limit

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><td>Item</td><td colspan="4">Occupied Bandwidth</td></tr>
<tr><td rowspan="2">Device Category</td><td>☒</td><td colspan="3">Fixed position use</td></tr>
<tr><td>☐</td><td colspan="3">Mobile position use</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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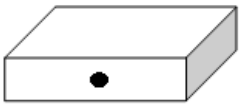
<tr><td></td><td colspan="3">  </td></tr>
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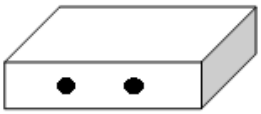
<tr><td></td><td colspan="3">  </td></tr>
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<tr><td></td><td colspan="3">  </td></tr>
</table>

7.6. Test Result

Product Name	:	GEYE 500	Power	:	AC 120V/60Hz
Test Mode	:	Mode1~3	Test Site	:	TR8
Test Date	:	2017.08.31			

Mode	CH.	Test Freq. (MHz)	99% Occupied Bandwidth (MHz)	6dB Occupied Bandwidth (MHz)	Limit (kHz)	Result
			Ant1	Ant1		
1	01	2412	13.965	9.072	>500	Pass
1	06	2437	13.940	9.065	>500	Pass
1	11	2462	13.988	8.577	>500	Pass
2	01	2412	16.525	16.10	>500	Pass
2	06	2437	16.534	16.07	>500	Pass
2	11	2462	16.489	16.03	>500	Pass
3	01	2412	17.733	17.56	>500	Pass
3	06	2437	17.737	16.68	>500	Pass
3	11	2462	17.730	17.57	>500	Pass

Note : The worst case of Occupied Bandwidth as below:

Mode 1 CH11 (2462MHz) Ant1

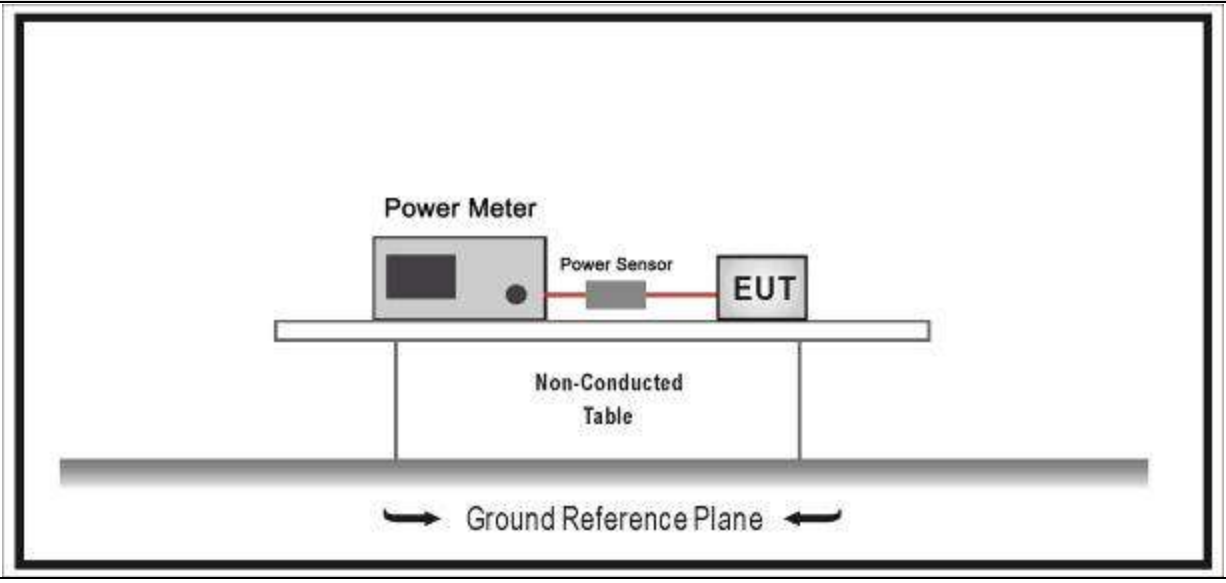
8. Fundamental emission output power

8.1. Test Equipment

Fundamental emission output power/ TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2017.01.03	2018.01.02
Spectrum Analyzer	Agilent	N9010A	MY48030494	2017.02.04	2018.02.03
Wideband Peak Power Meter	Anritsu	ML2495A	0905006	2017.10.14	2018.10.13
Power Sensor	Anritsu	MA2411B	0846014	2017.10.14	2018.10.13
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2017.04.10	2018.04.09
Note: All equipments are 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			
☒	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
	☐	emits multiple directional beams but does not do emit multiple directional beams simultaneously	P_{out}≤30-[(G_{TX}-6)]/3
	☐	operates simultaneously on multiple directional beams using the same or different frequency channels	P_{out}≤30-[(G_{TX}-6)]/3+8dB
	☐	single directional beam	P_{out}≤30-[(G_{TX}-6)]/3
Note 1 : G_{TX} directional gain of transmitting antennas. Note 2 : P_{out} is maximum peak conducted output power .			

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><td>Item</td><td colspan="4">Fundamental emission output power</td></tr>
<tr><td rowspan="2">Device Category</td><td>☒</td><td colspan="3">Fixed position use</td></tr>
<tr><td>☐</td><td colspan="3">Mobile position use</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>
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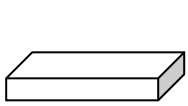
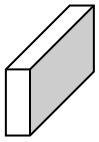
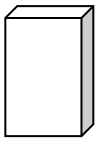
<tr><td>  </td><td>  </td><td>  </td></tr>
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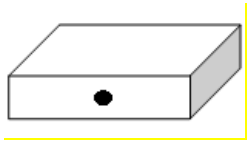
<tr><td></td><td colspan="3">  </td></tr>
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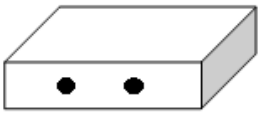
<tr><td></td><td colspan="3">  </td></tr>
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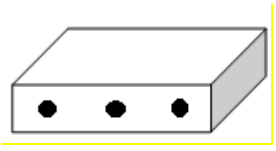
<tr><td></td><td colspan="3">  </td></tr>
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8.6. Test Result

Product Name	:	GEYE 500	Power	:	AC 120V/60Hz
Test Mode	:	Mode1~3	Test Site	:	TR8
Test Date	:	2017.08.31			

Mode	Channel	Test Frequency (MHz)	Average Power Output (dBm)	Antenna Gain (dBi)	Limit (dBm)	Result
1	01	2412	18.01	2.5	30	Pass
1	06	2437	18.89	2.5	30	Pass
1	11	2462	19.18	2.5	30	Pass
2	01	2412	21.98	2.5	30	Pass
2	06	2437	22.28	2.5	30	Pass
2	11	2462	22.12	2.5	30	Pass
3	01	2412	22.01	2.5	30	Pass
3	06	2437	21.86	2.5	30	Pass
3	11	2462	21.85	2.5	30	Pass

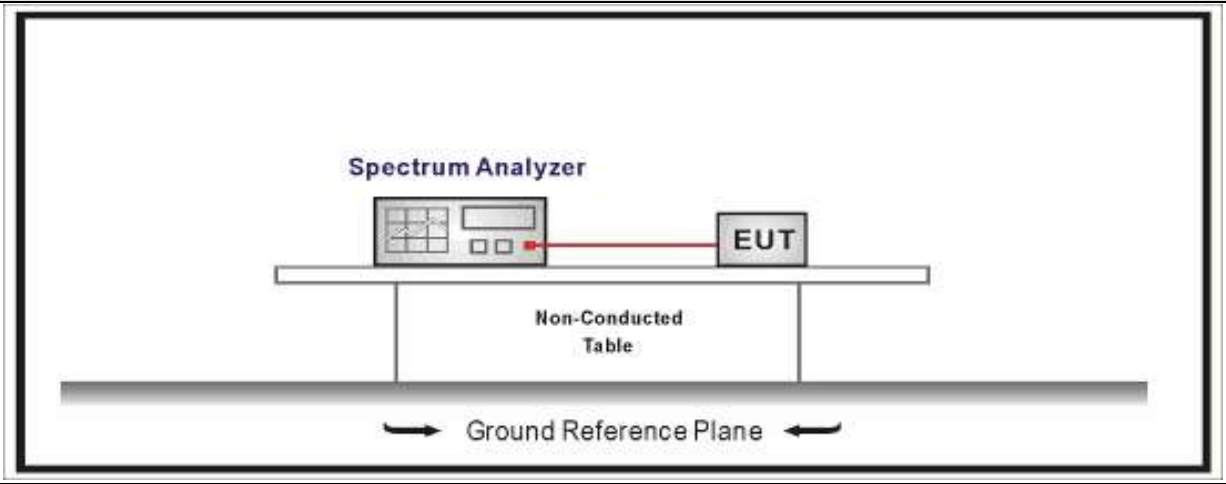
9. Power Spectral Density

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	2017.02.04	2018.02.03
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2017.04.09	2018.04.08
MXA Signal Anlyzer	Keysight	N9020A	MY56060147	2017.04.09	2018.04.08
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2017.04.10	2018.04.09
Note: All equipments are 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><td>Item</td><td colspan="4">Power Spectral Density Test Method</td></tr>
<tr><td rowspan="2">Device Category</td><td>☒</td><td colspan="3">Fixed position use</td></tr>
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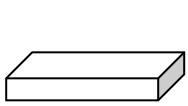
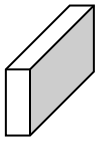
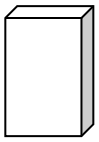
<tr><td>  </td><td>  </td><td>  </td></tr>
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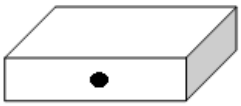
<tr><td></td><td colspan="3">  </td></tr>
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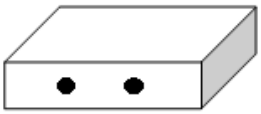
<tr><td></td><td colspan="3">  </td></tr>
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</table>

9.6. Test Result

Product Name	:	GEYE 500	Power	:	AC 120V/60Hz
Test Mode	:	Mode1~3	Test Site	:	TR8
Test Date	:	2017.08.31			

Mode	Channel	Test Frequency (MHz)	Measurement PSD (dBm/3kHz) Ant1	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
1	01	2412	-7.285	-7.285	8.0	Pass
1	06	2437	-7.162	-7.162	8.0	Pass
1	11	2462	-7.200	-7.200	8.0	Pass
2	01	2412	-9.616	-9.616	8.0	Pass
2	06	2437	-10.981	-10.981	8.0	Pass
2	11	2462	-10.956	-10.956	8.0	Pass
3	01	2412	-11.111	-11.111	8.0	Pass
3	06	2437	-12.952	-12.952	8.0	Pass
3	11	2462	-11.185	-11.185	8.0	Pass

Note : The worst case of Occupied Bandwidth as below:

Mode 1 CH11 (2462MHz) Ant1

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

The EUT use permanently attached antennas and comply with FCC 15.203.

The End