



Test Report

FCC Part15 Subpart E

Product Name : REALMAX-QIAN
Model No. : ME835-A01
FCC ID : 2AR5WME835A01

Applicant : Tapu Yihai (Shanghai) Intelligent Technology Co., Ltd.
Address : Rm412, Tower 5, No.1082 Huyi Rd, Jiading District,
Shanghai

Date of Receipt : Jan. 15, 2019
Test Date : Jan. 15, 2019 ~ Mar. 27, 2019
Issued Date : Apr. 11, 2019
Report No. : 1912082R-RF-US-P09V01
Report Version : V1.1

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

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Test Report Certification

Issued Date : Apr. 11, 2019

Report No. : 1912082R-RF-US-P09V01



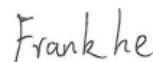
Product Name : REALMAX-QIAN
Applicant : Tapu Yihai (Shanghai) Intelligent Technology Co., Ltd.
Address : Rm412, Tower 5, No.1082 Huyi Rd, Jiading District, Shanghai
Manufacturer : Tapu Yihai (Shanghai) Intelligent Technology Co., Ltd.
Address : Rm412, Tower 5, No.1082 Huyi Rd, Jiading District, Shanghai
Model No. : ME835-A01
FCC ID : 2AR5WME835A01
EUT Voltage : 5 V dc, 3A
Test Voltage : AC 120V/60Hz
Brand Name : Realmax
Applicable Standard : FCC CFR Title 47 Part 15 Subpart E
ANSI C63.10:2013;
789033 D02 General UNII Test Procedures New Rules
v02r01
KDB 662911 D01 Multiple Transmitter Output v02r01
Test Result : Complied
Performed Location : DEKRA Testing and Certification (Suzhou) Co., Ltd.
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History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
1912082R-RF-US-P09V01	V1.0	Initial Issued Report	Mar. 29, 2019
1912082R-RF-US-P09V01	V1.1	1. P2, update the applicable standard version of KDB789033; 2. P7, update the note of EUT description; 3. P14, update performed test item of summary of test result; 4. P181-182, add the test data of the worst case of simultaneous radiated emission; 5. P268, update antenna connector construction.	Apr. 11, 2019

1. General Information

1.1. EUT Description

Product Name	REALMAX-QIAN					
Brand Name	Realmax					
Model No.	ME835-A01					
EUT Voltage	5 V dc, 3A					
Type of Modulation	OFDM-BPSK, QPSK, 16QAM, 64QAM, 128QAM, 256QAM					
Data Rate	802.11a: 6/9/12/18/24/36/48/54Mbps					
	802.11n: up to 300Mbps					
	802.11ac: up to 866.6Mbps					
Channel Control	Auto					
Transmit modes	☒	802.11a	☒	802.11n(20MHz)	☒	802.11n(40MHz)
	☒	802.11ac(20MHz)	☒	802.11ac(40MHz)	☒	802.11ac(80MHz)
Support Bands	☒	5150MHz~5250MHz	☐	Outdoor AP		
			☐	Indoor AP		
			☐	Fixed point-to-point AP		
			☒	Mobile and Portable Client		
	☒	5250MHz~5350MHz				
	☒	5470MHz~5725MHz	☒	With TDWR Channels		
			☐	Without TDWR Channels		
	☒	5725MHz~5850MHz				

Note 1: We have evaluated each antenna combination, shown in the report was the worst data.

Note 2: The output power of 802.11ac(20MHz) and 802.11ac(40MHz) is lower than 802.11n(20MHz) and 802.11n(40MHz), so we only show the worse data of 802.11n(20MHz) and 802.11n(40MHz).

1.2. Antenna information

Antenna Model No.	N/A						
Antenna Manufacturer	N/A						
Antenna Delivery	☒	1*TX+1*RX	☒	2*TX+2*RX	☐	3*TX+3*RX	
Antenna Technology	☒	SISO					
	☒	MIMO	☐	Basic methodology			
			☐	Sectorized antenna systems			
			☐	Cross-polarized antennas			
			☐	Unequal antenna gains, with equal transmit powers			
			☐	Spatial Multiplexing			
			☒	Cyclic Delay Diversity (CDD)			
Antenna Type	PIFA Antenna						
Antenna Gain							
Antenna Technology	Ant Gain (dBi)						
☒ SISO	☒ Ant1	2.6					
	☒ Ant2	3.6					
☒ CDD	3.6dBi for Power; 6.6dBi for PSD						

1.3. Working Frequency of Each Channel:

802.11a/n/ac(20MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180 MHz	40	5200 MHz	44	5220 MHz	48	5240 MHz
52	5260MHz	56	5280 MHz	60	5300 MHz	64	5320 MHz
100	5500MHz	104	5520 MHz	108	5540 MHz	112	5550 MHz
116	5580MHz	120	5600MHz	124	5620MHz	128	5640MHz
132	5660 MHz	136	5680 MHz	140	5700 MHz	149	5745 MHz
153	5765 MHz	157	5785 MHz	161	5805 MHz	165	5825MHz
802.11n/ac(40MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz	54	5270 MHz	62	5310 MHz
102	5510 MHz	110	5550 MHz	118	5590 MHz	126	5630 MHz
134	5670 MHz	151	5755 MHz	159	5795 MHz	N/A	N/A
802.11ac(80MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency

42	5210 MHz	58	5290 MHz	106	5530MHz	122	5610 MHz
155	5775 MHz	N/A	N/A	N/A	N/A	N/A	N/A

1.4. Mode of Operation

DEKRA has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: Transmit by 802.11a
Mode 2: Transmit by 802.11n(20MHz)
Mode 3: Transmit by 802.11n(40MHz)
Mode 4: Transmit by 802.11ac(20MHz)
Mode 5: Transmit by 802.11ac(40MHz)
Mode 6: Transmit by 802.11ac(80MHz)

Note 1: Regards to the frequency band operation: the lowest, middle and highest frequency of 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.

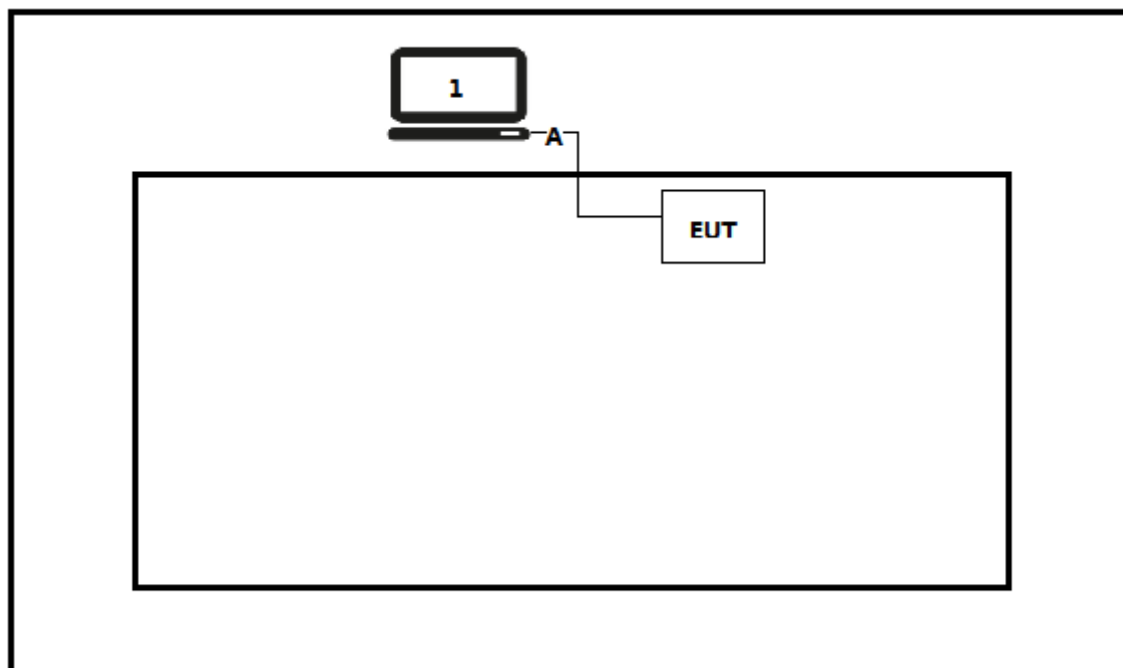
1.5. Tested System Details

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

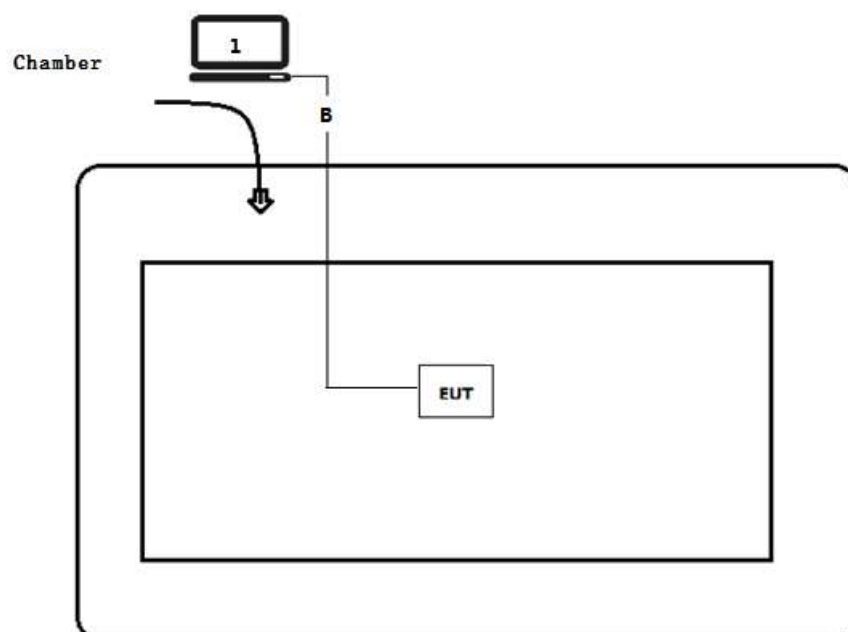
Product		Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook	Lenovo	Think pad x220	SUA0600195	Non-shielded
A	USB cable	N/A	N/A	N/A	Shielded, 0.5m
B	USB cable	N/A	N/A	N/A	Shielded, 10m

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 and simulators as shown on above.
2	Turn on the power of equipment.
3	Run RF software [QRCT], and set the test mode and channel, then press OK to start to continue transmit.

2. Technical Test

2.1. Summary of Test Result

- ☒ No deviations from the test standards
☐ Deviations from the test standards as below description:

Performed Test Item	Normative References	Limit	Result
Conducted Emission	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.207	FCC 15.207	PASS
Radiated Emission	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.209	FCC 15.209	PASS
Emission bandwidth and occupied bandwidth	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.407(a)	FCC 15.407(e)	PASS
6dB Emission Bandwidth	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.407(a)	FCC 15.407(e)	PASS
Power Output	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.407(a)	FCC 15.407(a)	PASS
Peak Power Spectral Density	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.407(a)	FCC 15.407(a)	PASS
Conducted Band Edge	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.205, 15.407(b)	FCC 15.407(b)	PASS
Frequency Stability	FCC CFR Title 47 Part 15 Subpart E: 2015 Section 15.407(g)	± 20ppm	PASS

2.2. Test Frequency configuration:

Modulation Mode	Channel	Frequency	Channel	Frequency	Channel	Frequency
802.11a/n(20MHz)/ ac(20MHz)	36	5180MHz	44	5220MHz	48	5240MHz
	52	5260MHz	60	5300MHz	64	5320MHz
	100	5500MHz	116	5580MHz	132	5700MHz
	149	5745MHz	157	5785MHz	165	5825MHz
802.11n(40MHz)/ ac(40MHz)	38	5190MHz	46	5230MHz	54	5270MHz
	62	5310MHz	102	5510MHz	110	5550MHz
	134	5670MHz	151	5755MHz	159	5795MHz
802.11ac(80MHz)	42	5210MHz	58	5290MHz	106	5530MHz
	155	5775MHz	N/A	N/A	N/A	N/A

2.3. Power Parameter Value of the test software

Test Mode	Frequency	Power Setting		
		Ant 1	Ant 2	Ant 1+2
802.11a	5180	11.5	11	8
	5220	11.5	11	8
	5240	12	11	8.5
	5260	12	11.5	8.5
	5300	12	11.5	9
	5320	12.5	12	9
	5500	12.5	11.5	8
	5580	12	11.5	8.5
	5700	12	11.5	8.5
	5745	11.5	11	8
	5785	11	10.5	8
	5825	11.5	10.5	8.5
802.11n(20MHz)	5180	9.5	9	6
	5220	10	9	6
	5240	10	9	6.5
	5260	10.5	9.5	6.5
	5300	10.5	9.5	6.5
	5320	11	10	7
	5500	10	9.5	6.5
	5580	10	9.5	7.5
	5700	10	9.5	6.5
	5745	10	9	7
	5785	9.5	8.5	6
	5825	9.5	9	6.5
802.11n(40MHz)	5190	9.5	8.5	5.5
	5230	9.5	8.5	6
	5270	10	9	6.5
	5310	10.5	9	6
	5510	9.5	9	6
	5550	9.5	9	6
	5670	10.5	9.5	7
	5755	9.5	8.5	6.5
	5795	9	8.5	5.5

802.11ac(20MHz)	5180	9.5	9	6
	5220	10	9	6
	5240	10	9	6.5
	5260	10.5	9.5	6.5
	5300	10.5	9.5	6.5
	5320	11	10	7
	5500	10	9.5	6.5
	5580	10	9.5	7.5
	5700	10	9.5	6.5
	5745	10	9	7
	5785	9.5	8.5	6
	5825	9.5	9	6.5
802.11ac(40MHz)	5190	9.5	8.5	5.5
	5230	9.5	8.5	6
	5270	10	9	6.5
	5310	10.5	9	6
	5510	9.5	9	6
	5550	9.5	9	6
	5670	10.5	9.5	7
	5755	9.5	8.5	6.5
	5795	9	8.5	5.5
802.11ac(80MHz)	5210	10	9.5	7.5
	5290	10.5	9.5	7
	5530	10.5	9.5	7
	5775	10	9	7

2.4. Power vs Data Rate

MCS Index for 802.11n	Spatial Streams	Data Rate (Mbps)						
		802.11b	802.11g	802.11a	20MHz Bandwidth		40MHz Bandwidth	
					800ns GI	400ns GI	800ns GI	400ns GI
0	1	1	6	6	6.5	7.2	13.5	15.0
1	1	2	9	9	13.0	14.4	27.0	30.0
2	1	5.5	12	12	19.5	21.7	40.5	45.0
3	1	11	18	18	26.0	28.9	54.0	60.0
4	1	---	24	24	39.0	43.3	81.0	90.0
5	1	---	36	36	52.0	57.8	108.0	120.0
6	1	---	48	48	58.5	65.0	121.5	135.0
7	1	---	54	54	65.0	72.2	135.0	150.0
8	2	---	---	---	13.0	14.4	27.0	30.0
9	2	---	---	---	26.0	28.9	54.0	60.0
10	2	---	---	---	39.0	43.3	81.0	90.0
11	2	---	---	---	52.0	57.8	108.0	120.0
12	2	---	---	---	78.0	86.7	162.0	180.0
13	2	---	---	---	104.0	115.6	216.0	240.0
14	2	---	---	---	117.0	130.0	243.0	270.0
15	2	---	---	---	130.0	144.0	270.0	300.0
Note 1 : The blue form is the maximum power data rate								
2: The EUT supports two spatial streams.								

Spatial Streams (Note1)	MCS Index	Modulation type	Coding rate	Data Rate(Mb/s)					
				20MHz		40MHz		80MHz	
				Guard Interval		Guard Interval		Guard Interval	
				800ns	400ns	800ns	400ns	800ns	400ns
1	0	BPSK	1/2	6.5	7.2	13.5	15	29.3	32.5
	1	QPSK	1/2	13	14.4	27	30	58.5	65
	2	QPSK	3/4	19.5	21.7	40.5	45	87.8	97.5
	3	16-QAM	1/2	26	28.9	54	60	117	130
	4	16-QAM	3/4	39	43.3	81	90	175.5	195
	5	64-QAM	2/3	52	57.8	108	120	234	260
	6	64-QAM	3/4	58.5	65	121.5	135	263.3	292.5
	7	64-QAM	5/6	65	72.2	135	150	292.5	325
	8	256-QAM	3/4	78	86.7	162	180	351	390
	9	256-QAM	5/6	N/A	N/A	180	200	390	433.3
2	0	BPSK	1/2	13	14.4	27	30	58.6	65
	1	QPSK	1/2	26	28.8	54	60	117	130
	2	QPSK	3/4	39	43.4	81	90	175.6	195
	3	16-QAM	1/2	52	57.8	108	120	234	260
	4	16-QAM	3/4	78	86.6	162	180	351	390
	5	64-QAM	2/3	104	115.6	216	240	468	520
	6	64-QAM	3/4	117	130	243	270	526.6	585
	7	64-QAM	5/6	130	144.4	270	300	585	650
	8	256-QAM	3/4	156	173.4	324	360	702	780
	9	256-QAM	5/6	N/A	N/A	360	400	780	866.6
Note 1: The blue form is the maximum power data rate.									
2: The EUT supports two spatial streams.									

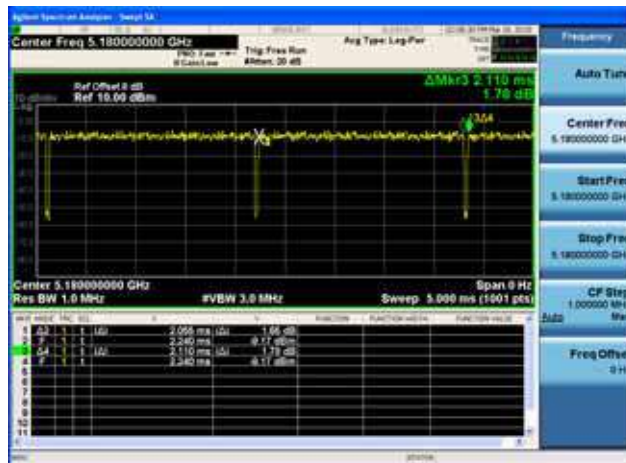
2.5. Duty Cycle

Test Mode	Tx On (ms)	Tx Off (ms)	VBW	Tx On + Tx Off (ms)	Duty Cycle
802.11a	2.055	0.055	510Hz	2.110	97.39%
802.11n(20MHz)	1.915	0.045	560Hz	1.960	97.70%
802.11n(40MHz)	0.912	0.072	1.1kHz	0.984	92.68%
802.11ac(20MHz)	1.915	0.045	560Hz	1.960	97.70%
802.11ac(40MHz)	0.918	0.069	1.1kHz	0.987	93.01%
802.11ac(80MHz)	0.465	0.034	2.2kHz	0.499	93.19%

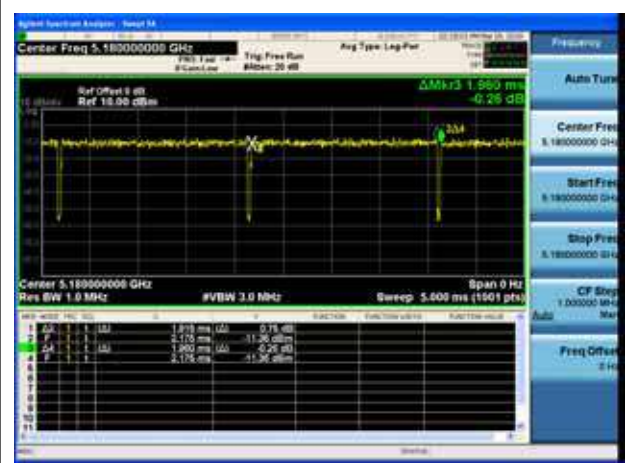
Note 1: T means the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

Note 2: According to KDB 789033 , when test for Radiated Emission Band Edge and Radiated Emission, $VBW \geq 1/T$ will be used.

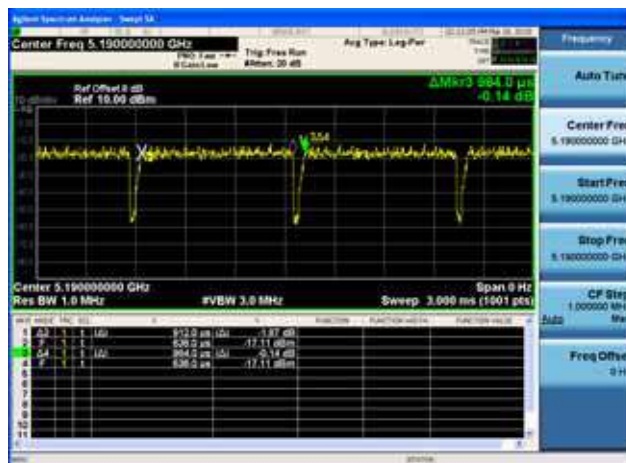
802.11a



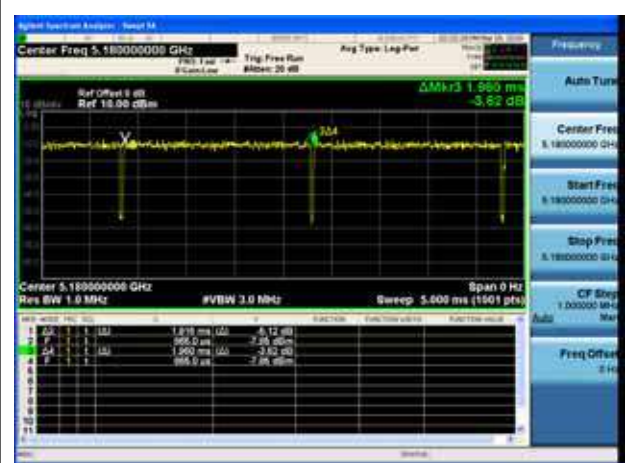
802.11n(20MHz)



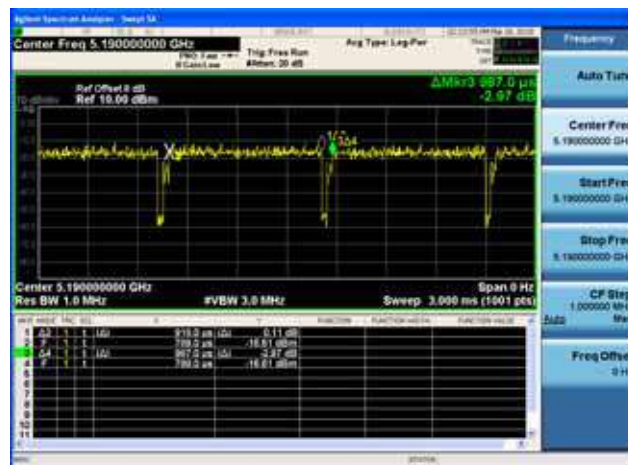
802.11n(40MHz)



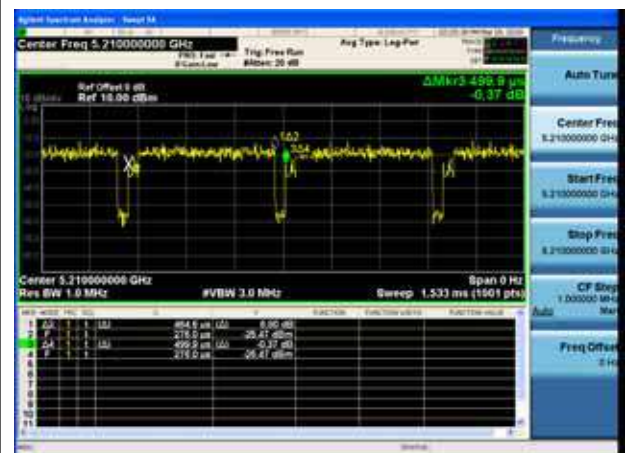
802.11ac(20MHz)



802.11ac(40MHz)



802.11ac(80MHz)



2.6. 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

2.7. Uncertainty

Test Items	Uncertainty
AC Power Line Conducted Emission	$\pm 2.02\text{dB}$
Radiated Emission	Below 1GHz $\pm 3.8\text{ dB}$
	Above 1GHz $\pm 3.9\text{ dB}$
RF Antenna Port Conducted Emission	$\pm 1.27\text{dB}$
Radiated Emission Band Edge	$\pm 3.9\text{dB}$
Occupied Bandwidth	$\pm 1\text{kHz}$
Power Spectral Density	$\pm 1.27\text{dB}$
Frequency Stability	$\pm 100\text{ Hz}$

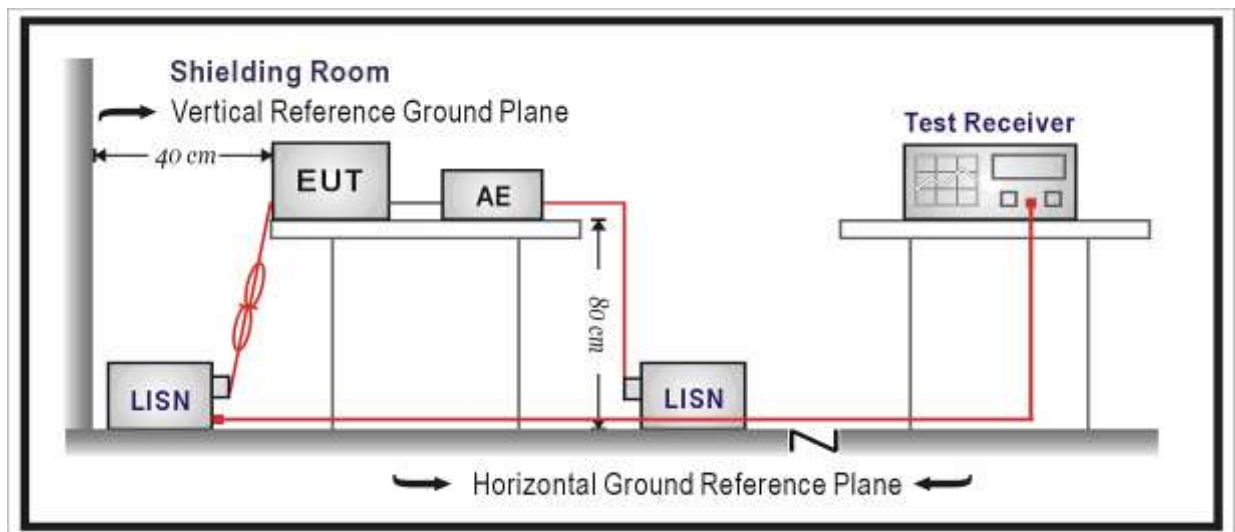
3. Conducted Emission

3.1. Test Equipment

Conducted Emission / TR-1					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100906	2019.03.05	2020.03.04
Two-Line V-Network	R&S	ENV 216	101189	2018.06.16	2019.06.15
Two-Line V-Network	R&S	ENV 216	101044	2018.09.16	2019.09.15
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	N/A	N/A
50ohm Termination	SHX	TF2	07081402	2018.09.16	2019.09.15
Temperature/Humidity Meter	Zhichen	ZC1-2	TR1-TH	2019.01.05	2020.01.04

Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

3.2. Test Setup



3.3. Limit

Frequency (MHz)	QP (dB μ V)	AV (dB μ V)
0.15 - 0.50	66 – 56	56 – 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

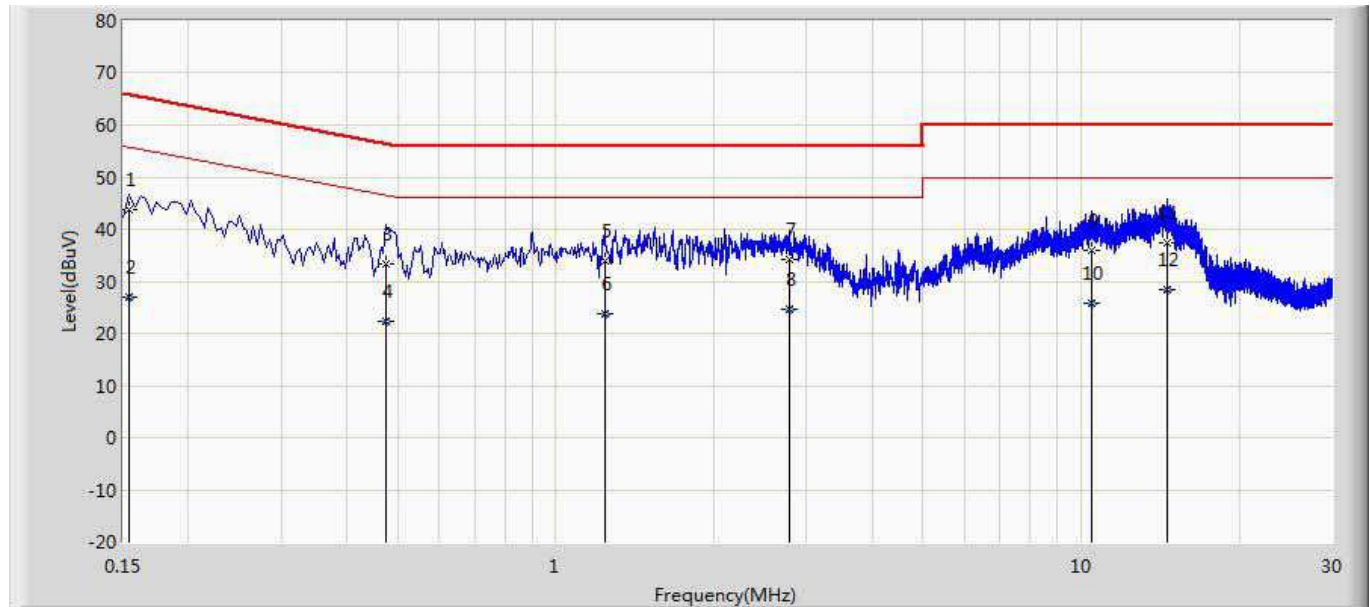
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

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

Engineer: Samuel	
Site: TR1	Time: 2019/01/28
Limit: FCC_Part15.207_CE_AC Power	Margin: 0
Probe: ENV216_101190(0.009-30MHz)	Polarity: Line
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1	



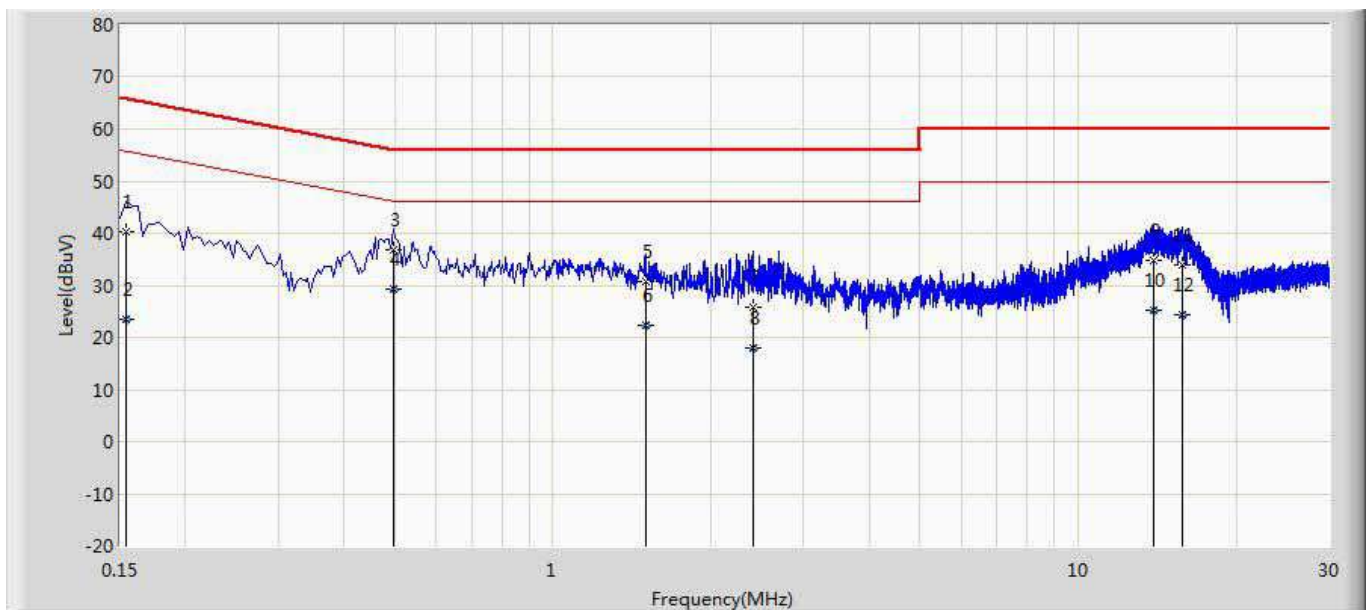
No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Probe (dB)	Cable (dB)	Amp (dB)	Type
1		0.154	43.654	34.016	-22.128	65.781	9.609	0.029	0.000	QP
2		0.154	27.057	17.419	-28.725	55.781	9.609	0.029	0.000	AV
3		0.474	33.455	23.814	-22.989	56.444	9.600	0.041	0.000	QP
4		0.474	22.398	12.757	-24.046	46.444	9.600	0.041	0.000	AV
5		1.238	33.794	24.118	-22.206	56.000	9.610	0.066	0.000	QP
6		1.238	23.877	14.201	-22.123	46.000	9.610	0.066	0.000	AV
7		2.782	34.227	24.500	-21.773	56.000	9.623	0.104	0.000	QP
8	*	2.782	24.610	14.882	-21.390	46.000	9.623	0.104	0.000	AV
9		10.462	35.849	25.861	-24.151	60.000	9.782	0.206	0.000	QP
10		10.462	25.932	15.944	-24.068	50.000	9.782	0.206	0.000	AV
11		14.606	37.324	27.189	-22.676	60.000	9.890	0.245	0.000	QP
12		14.606	28.484	18.349	-21.516	50.000	9.890	0.245	0.000	AV

Note:

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

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

Engineer: Samuel	
Site: TR1	Time: 2019/01/28
Limit: FCC_Part15.207_CE_AC Power	Margin: 0
Probe: ENV216_101190(0.009-30MHz)	Polarity: Neutral
EUT: REALMAX-QIAN	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		0.154	40.412	30.791	-25.369	65.781	9.593	0.029	0.000	QP
2		0.154	23.362	13.740	-32.419	55.781	9.593	0.029	0.000	AV
3		0.498	36.840	27.206	-19.194	56.033	9.590	0.044	0.000	QP
4	*	0.498	29.140	19.506	-16.893	46.033	9.590	0.044	0.000	AV
5		1.502	30.633	20.959	-25.367	56.000	9.600	0.074	0.000	QP
6		1.502	22.460	12.785	-23.540	46.000	9.600	0.074	0.000	AV
7		2.410	25.871	16.160	-30.129	56.000	9.615	0.097	0.000	QP
8		2.410	18.067	8.355	-27.933	46.000	9.615	0.097	0.000	AV
9		13.930	34.916	24.754	-25.084	60.000	9.923	0.239	0.000	QP
10		13.930	25.178	15.015	-24.822	50.000	9.923	0.239	0.000	AV
11		15.742	33.980	23.733	-26.020	60.000	9.993	0.255	0.000	QP
12		15.742	24.239	13.992	-25.761	50.000	9.993	0.255	0.000	AV

Note:

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

4. Radiated Emission

4.1. Test Equipment

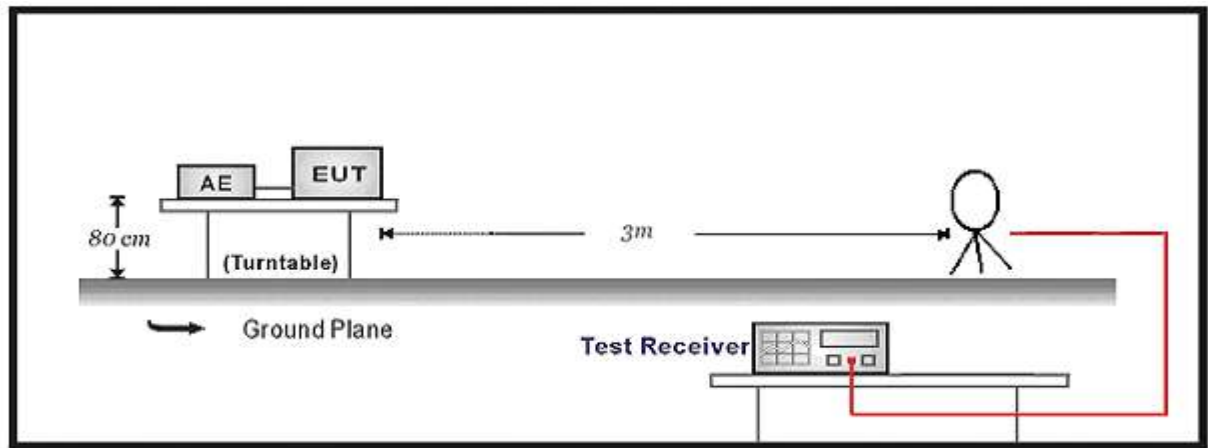
Radiated Emission / AC-2					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100573	2018.03.29	2019.03.28
Loop Antenna	R&S	HFH2-Z2	833799/003	2018.11.16	2019.11.15
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2018.10.16	2019.10.15
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2019.03.02	2020.03.01
Temperature/Humidity Meter	Zhichen	ZC1-2	AC2-TH	2019.01.04	2020.01.03

Radiated Emission / AC-5					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2019.01.04	2020.01.03
Preamplifier	Miteq	NSP1800-25	1364185	2018.05.06	2019.05.05
Preamplifier	Quietek	AP-040G	CHM-0906001	2018.05.06	2019.05.05
DRG Horn	ETS-Lindgren	3117	00123988	2019.01.22	2020.01.21
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2018.11.25	2019.11.24
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C1	2019.03.02	2020.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC5-C2	2019.03.02	2020.03.01
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	AC5-C3	2019.03.02	2020.03.01
EMI Receiver	Agilent	N9038A	MY51210196	2018.06.10	2019.06.09
Temperature/Humidity Meter	Zhichen	ZC1-2	AC5-TH	2019.01.04	2020.01.03

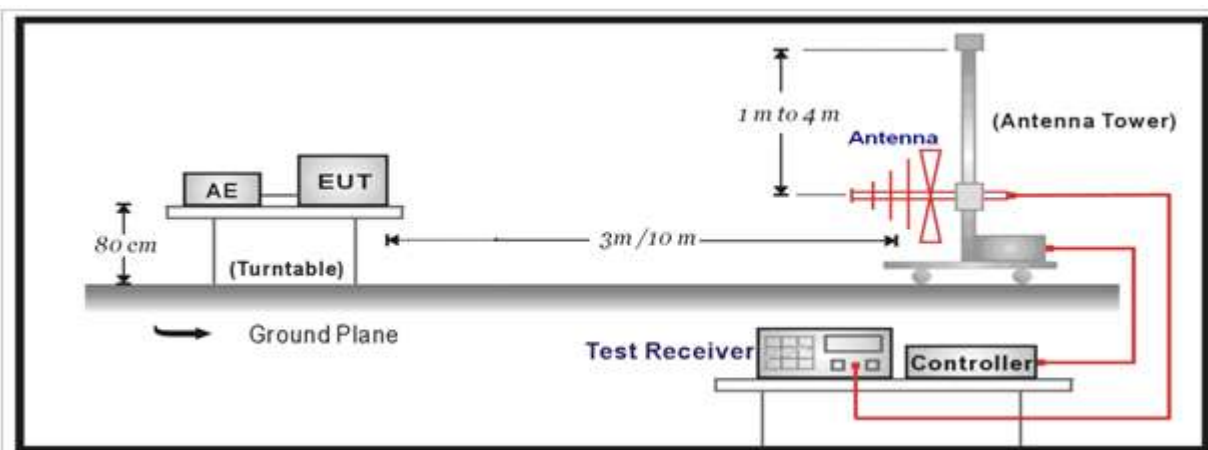
Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

4.2. Test Setup

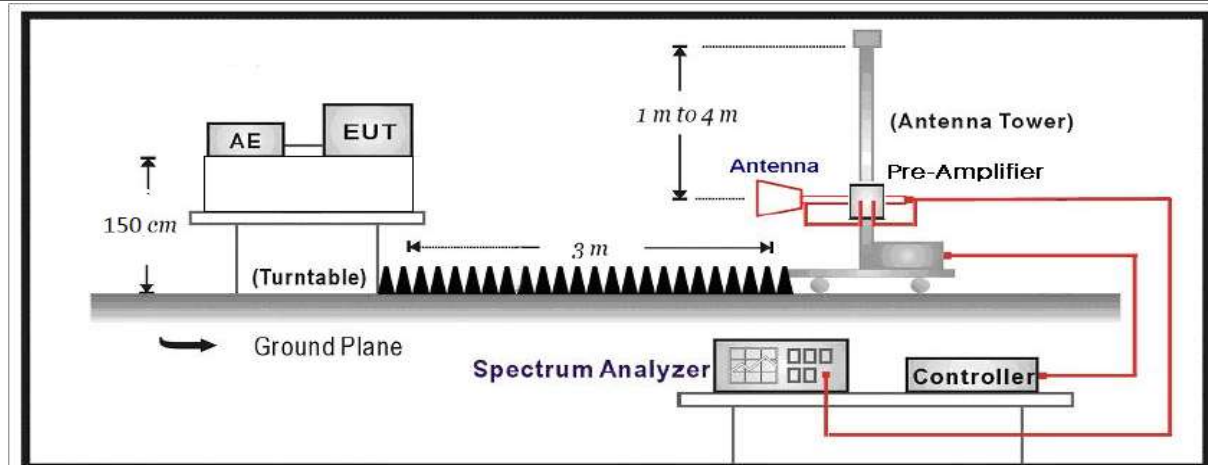
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



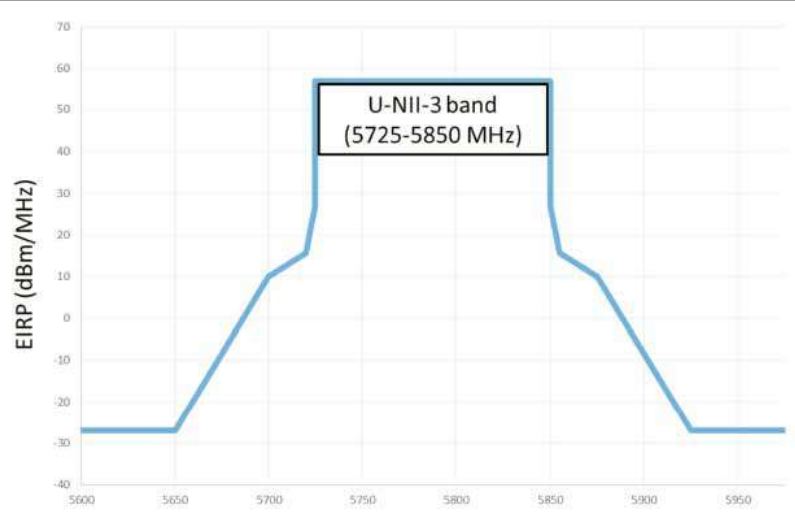
4.3. Limit

FCC Part 15 Subpart C Paragraph 15.209 (Restricted Band Emissions Limit)		
Frequency (MHz)	Distance (m)	Level (dB μ V/m)
0.009-0.490	300	2400/F(kHz)
0.490-1.705	30	24000/F(kHz)
1.705-30.0	30	30
30-88	3	100**
88-216	3	150**
216-960	3	200**
Above 960	3	500

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).

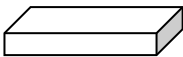
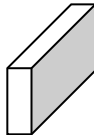
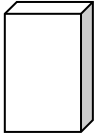
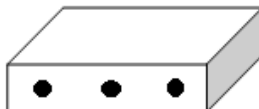
FCC Part 15 Subpart C Paragraph 15.205 (Restricted Band)			
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
0.495 – 0.505	16.69475 – 16.69525	608 – 614	5.35 – 5.46
2.1735 – 2.1905	16.80425 – 16.80475	960 – 1240	7.25 – 7.75
4.125 – 4.128	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			

FCC Part 15 Subpart C Paragraph 15.407(5)(b) (Unrestricted Band Emissions Limit)		
Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dB μ V/m)
5150 - 5250	-27	68.3
5250 - 5350	-27	68.3
5470 - 5725	-27	68.3
Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	
5725 - 5850	 U-NII-3 band (5725-5850 MHz)	

4.4. Test Procedure

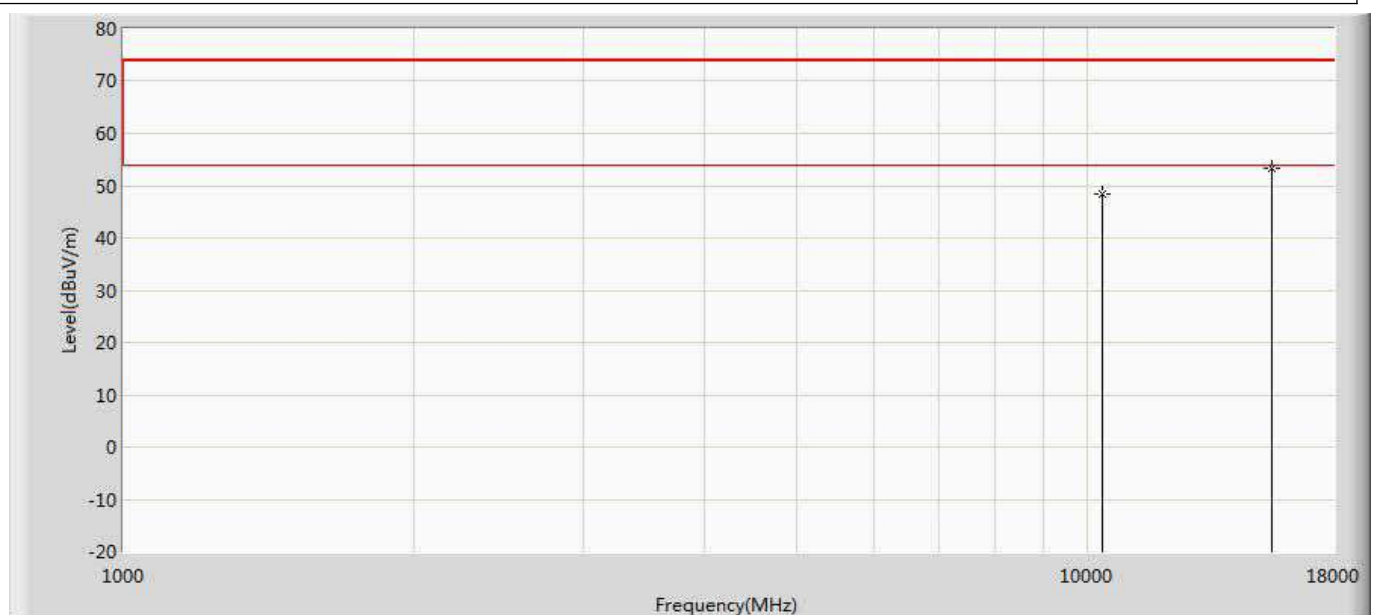
Test Method				
	References Rule		Chapter	Description
☐	ANSI C63.10		12.7.3	Emissions in non-restricted frequency bands
☒	ANSI C63.10		12.7.2	Emissions in restricted frequency bands
	☒	ANSI C63.10	12.7.5	Radiated emission measurements
	☒	ANSI C63.10	12.7.6	Procedure for peak unwanted emissions measurements above 1000 MHz
	☒	ANSI C63.10	12.7.7	Procedures for average unwanted emissions measurements above 1000 MHz
	☐	ANSI C63.10	12.7.7.2	Method AD (average detection)—primary method
	☒	ANSI C63.10	12.7.7.3	Method VB-A (Alternative)
	☒	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
☐	FCC KDB 789033 D02v01r04		G.2	Unwanted Emissions that fall Outside of the Restricted Bands
☐	FCC KDB 789033 D02v01r04		G.1	Unwanted Emissions in the Restricted Bands
	☐	FCC KDB 789033 D02v01r04	G.4	Procedure for Unwanted Emissions Measurements below 1000 MHz
	☐	FCC KDB 789033 D02v01r04	G.5	Procedure for Unwanted Maximum Emissions Measurements above 1000 MHz
	☐	FCC KDB 789033 D02v01r04	G.6	Procedures for Average Unwanted Emissions Measurements above 1000 MHz
	☐	FCC KDB 789033 D02v01r04	G.6.c	Method AD (Average detection)—primary method
	☐	FCC KDB 789033 D02v01r04	G.6.d	Method VB (Averaging using reduced video bandwidth): Alternative method.

4.5.EUT test Axis definition

Item	Radiated Emission			
Device Category	☐	Indoor use		
	☐	Outdoor use		
	☐	Fix position use		
	☒	Client use		
Test mode	Mode 1-6			
Test method	☒	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis ☒	Worst Axis ☐	Worst Axis ☐
	☐	Conducted		
	☐	Chain 1		
				
	☐	Chain 1	Chain 2	
				
	☐	Chain 1	Chain 2	Chain 3
				

4.6. Test Result

Profile: 1912082R-15.407	Page No.: 149
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 10:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5180MHz by 11a SISO	

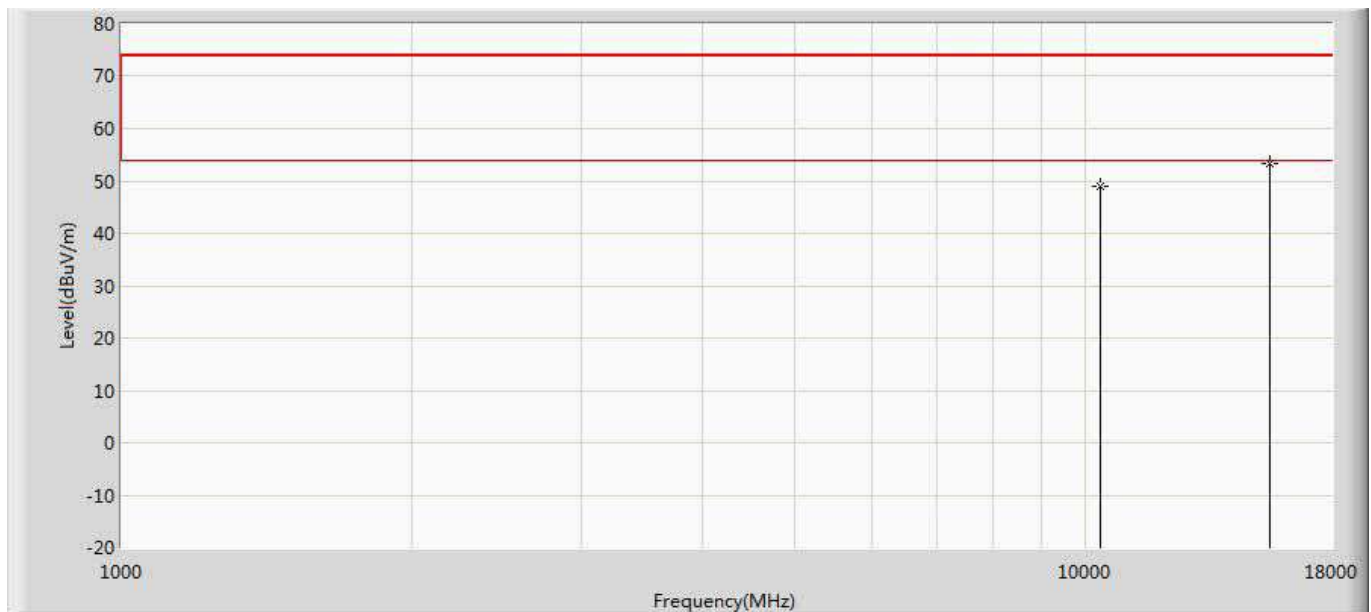


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10360.000	48.323	39.367	-25.677	74.000	8.957	0	0	PK
2	*	15540.000	53.246	36.675	-20.754	74.000	16.571	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 150
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 10:35
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5180MHz by 11a SISO	

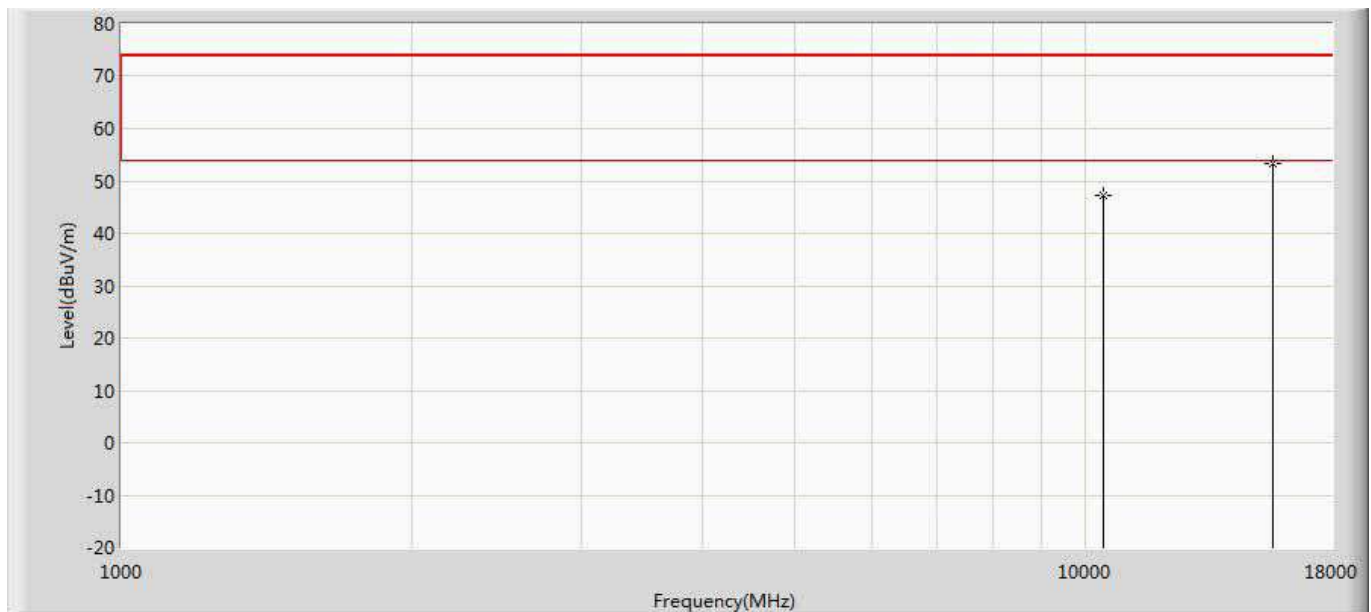


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10360.000	49.093	40.137	-24.907	74.000	8.957	0	0	PK
2	*	15540.000	53.377	36.806	-20.623	74.000	16.571	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 151
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 10:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5220MHz by 11a SISO	

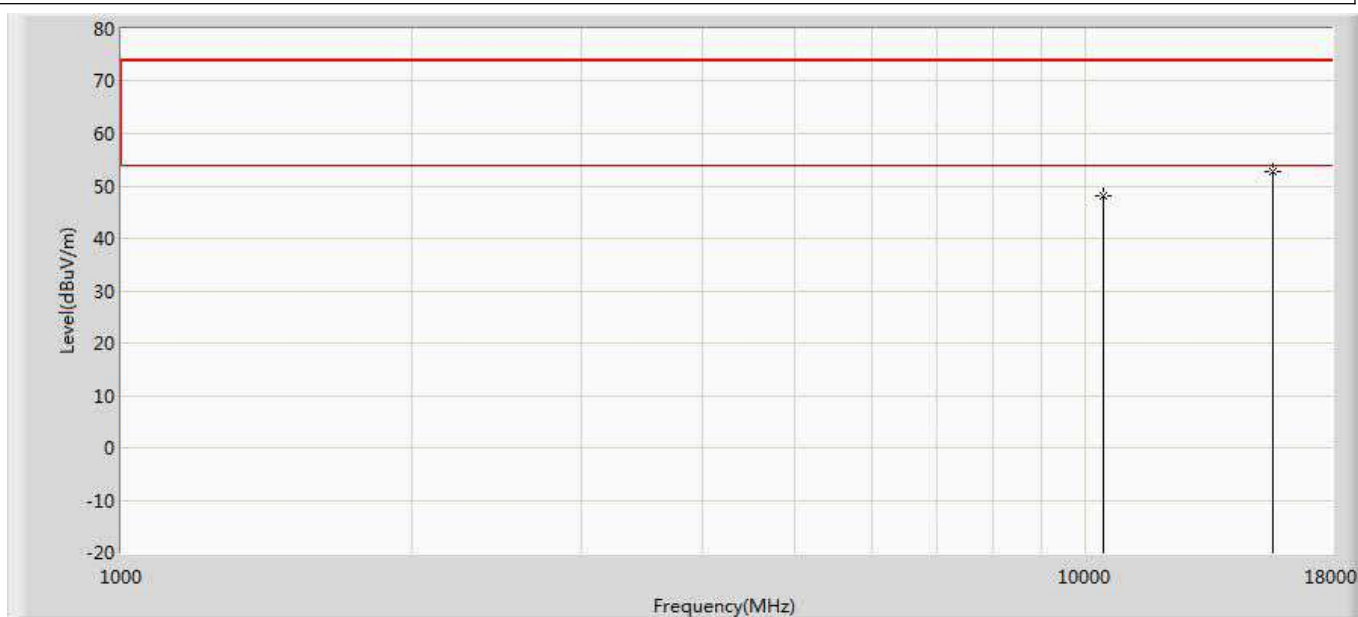


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10440.000	47.380	38.583	-26.620	74.000	8.797	0	0	PK
2	*	15660.000	53.232	36.055	-20.768	74.000	17.177	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 152
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 10:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5220MHz by 11a SISO	

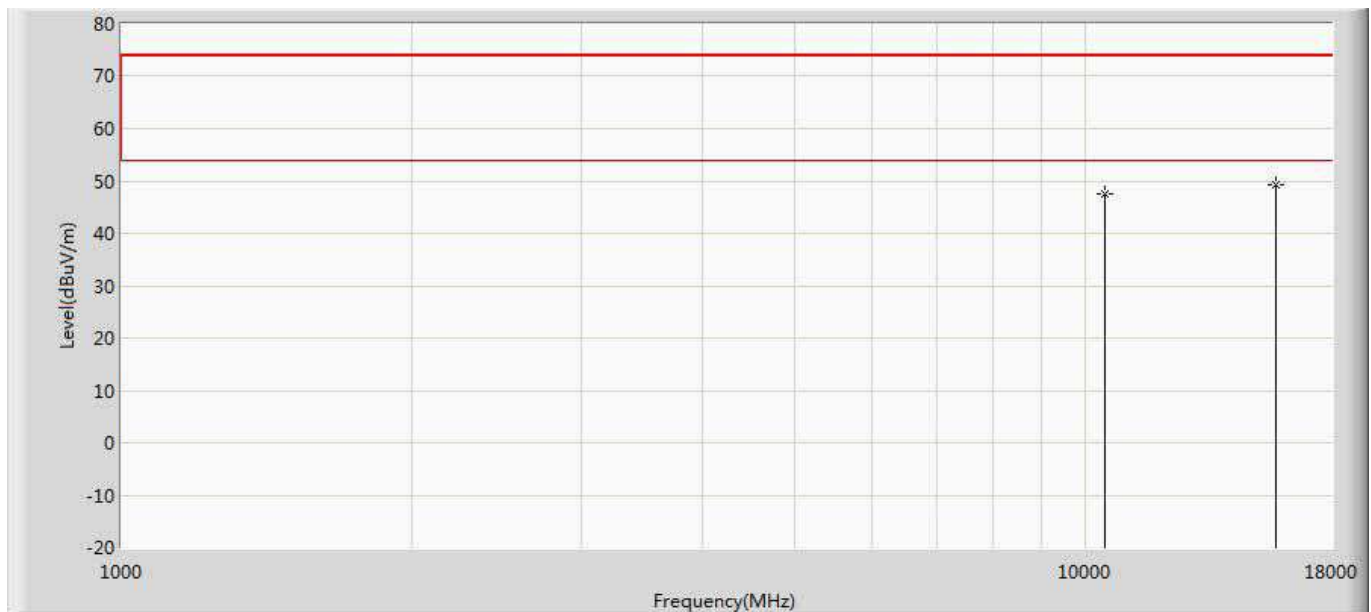


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10440.000	48.171	39.374	-25.829	74.000	8.797	0	0	PK
2	*	15660.000	52.642	35.465	-21.358	74.000	17.177	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 153
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 10:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5240MHz by 11a SISO	

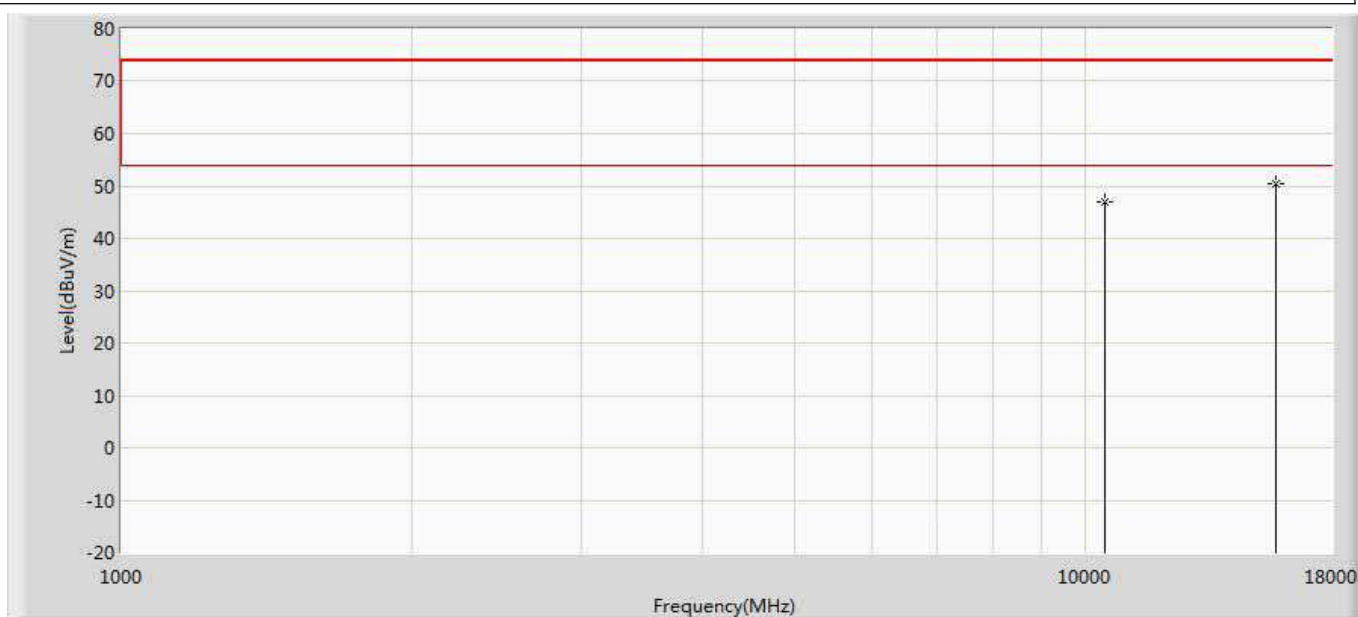


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10480.000	47.586	37.371	-26.414	74.000	10.215	0	0	PK
2	*	15720.000	49.323	33.266	-24.677	74.000	16.058	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 154
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 10:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5240MHz by 11a SISO	

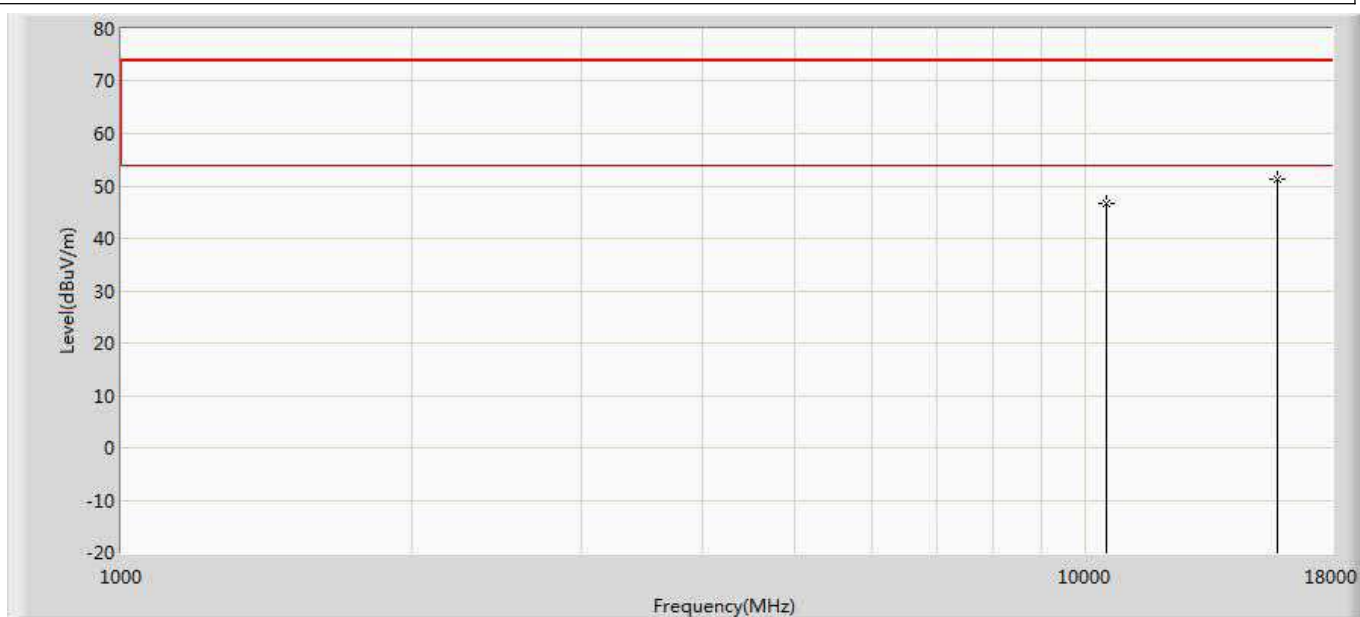


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10480.000	46.922	36.707	-27.078	74.000	10.215	0	0	PK
2	*	15720.000	50.400	34.343	-23.600	74.000	16.058	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 155
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 10:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5260MHz by 11a SISO	

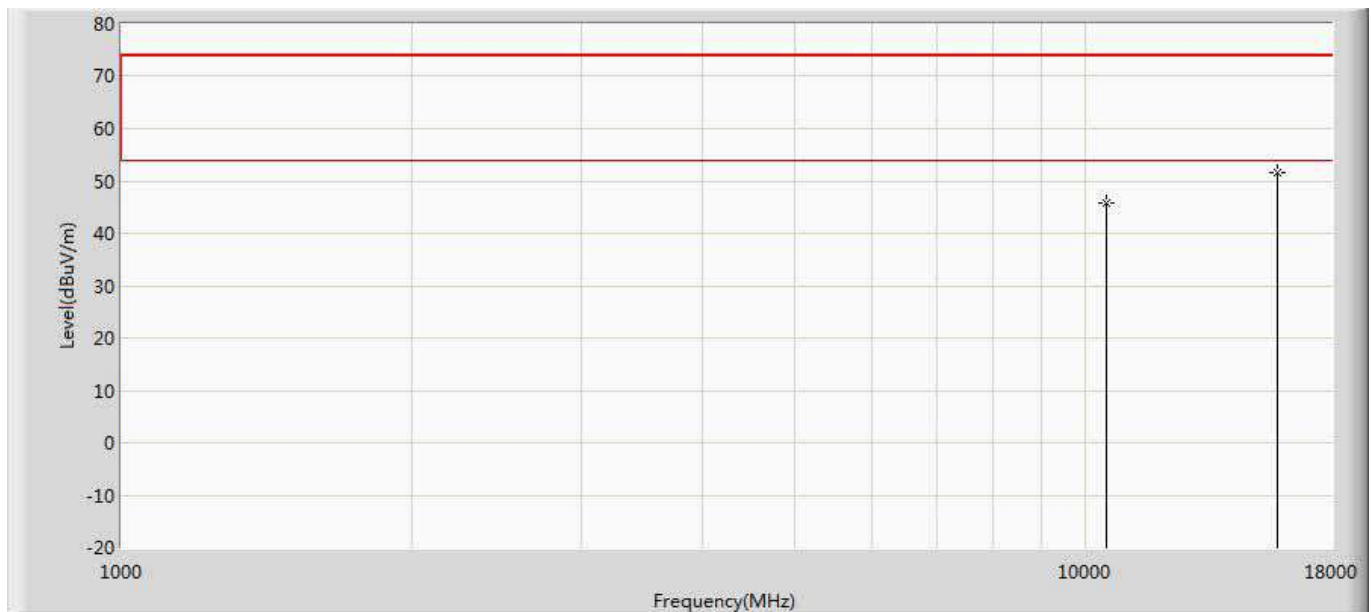


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10520.000	46.531	37.830	-27.469	74.000	8.701	0	0	PK
2	*	15780.000	51.187	33.814	-22.813	74.000	17.373	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 156
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 10:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5260MHz by 11a SISO	

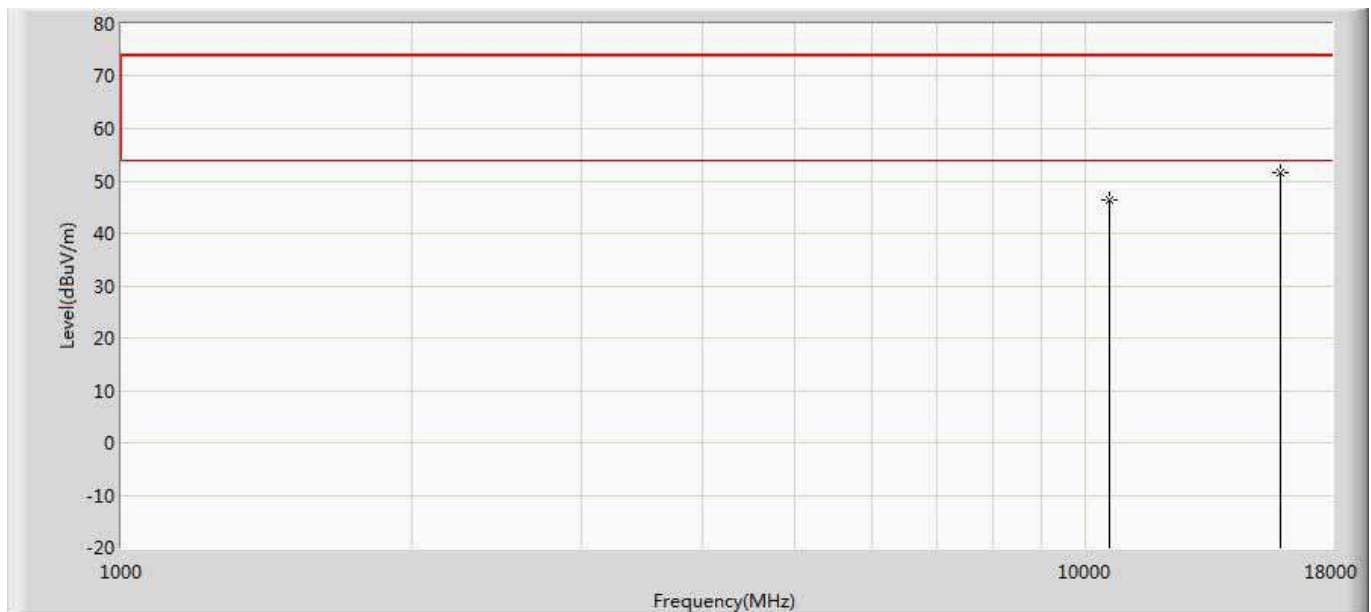


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10520.000	45.913	37.212	-28.087	74.000	8.701	0	0	PK
2	*	15780.000	51.642	34.269	-22.358	74.000	17.373	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 157
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 10:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5300MHz by 11a SISO	

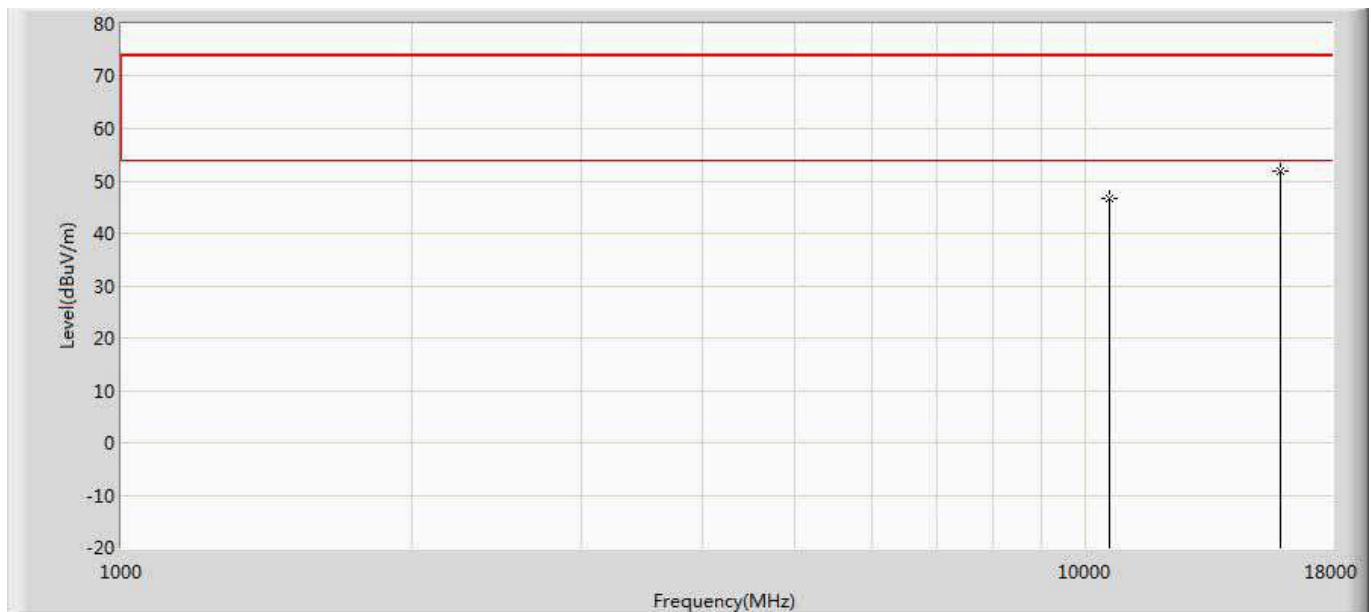


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10600.000	46.298	36.944	-27.702	74.000	9.354	0	0	PK
2	*	15900.000	51.644	34.070	-22.356	74.000	17.574	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 158
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 10:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5300MHz by 11a SISO	

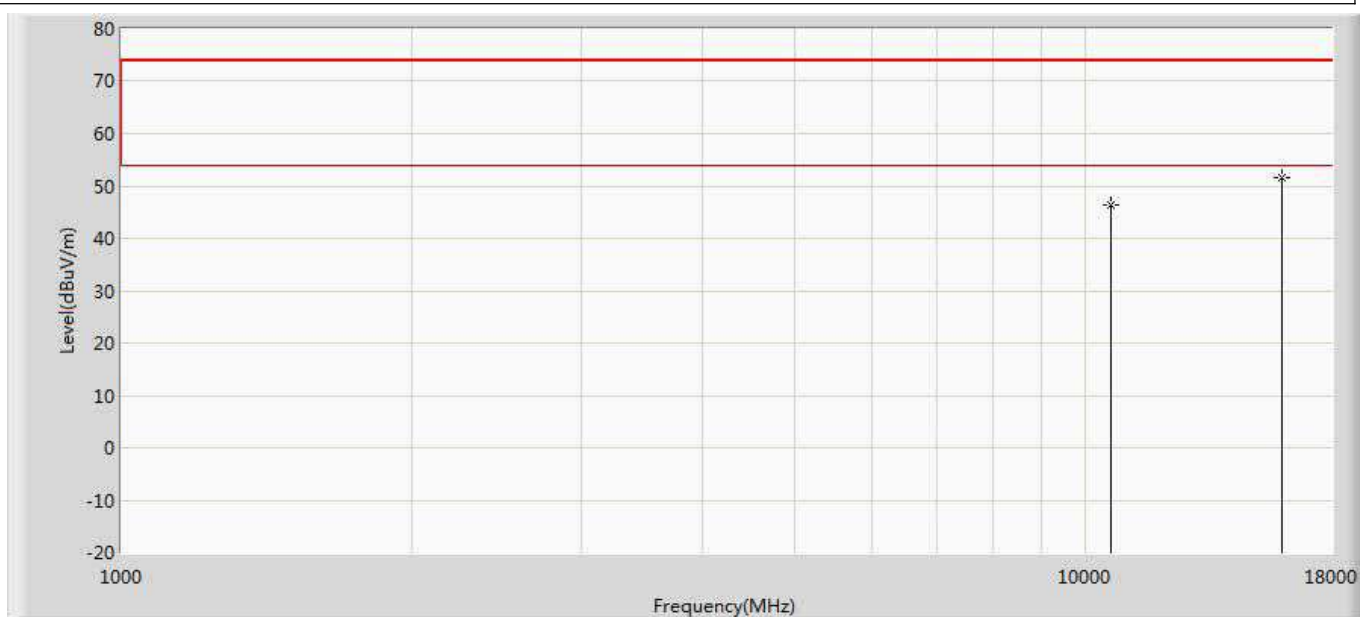


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10600.000	46.583	37.229	-27.417	74.000	9.354	0	0	PK
2	*	15900.000	51.943	34.369	-22.057	74.000	17.574	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 159
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 10:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5320MHz by 11a SISO	

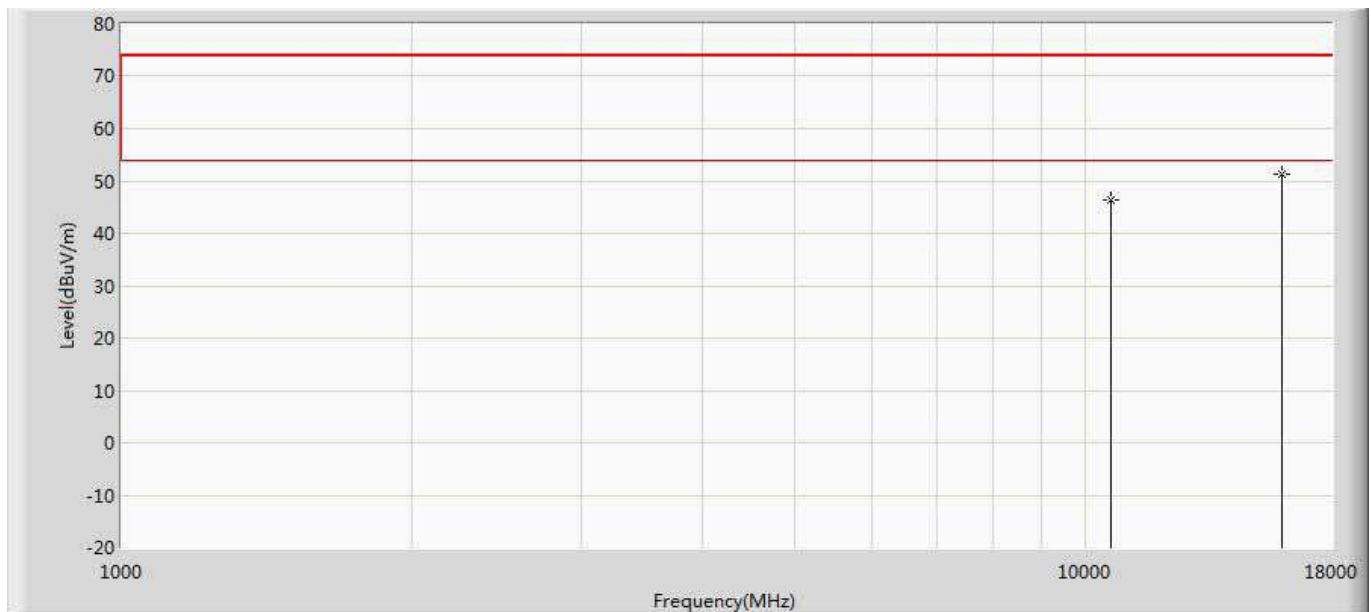


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10640.000	46.238	37.266	-27.762	74.000	8.972	0	0	PK
2	*	15960.000	51.500	33.729	-22.500	74.000	17.771	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 160
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 10:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5320MHz by 11a SISO	

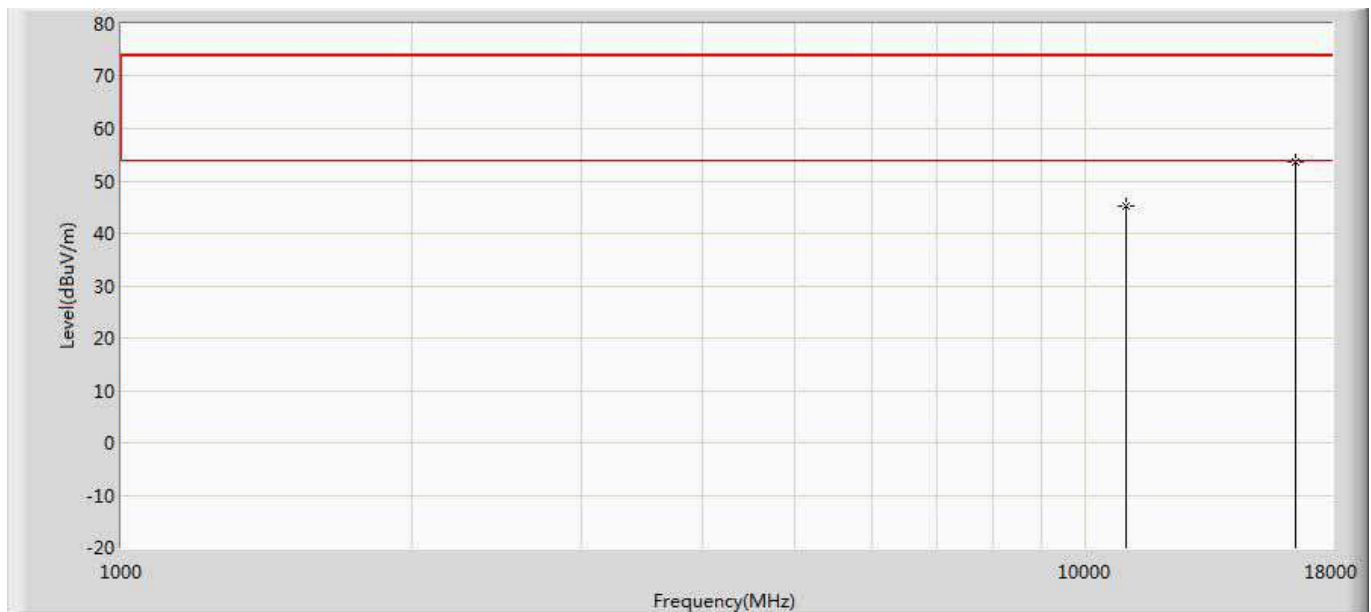


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10640.000	46.412	37.440	-27.588	74.000	8.972	0	0	PK
2	*	15960.000	51.447	33.676	-22.553	74.000	17.771	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 161
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 10:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5500MHz by 11a SISO	

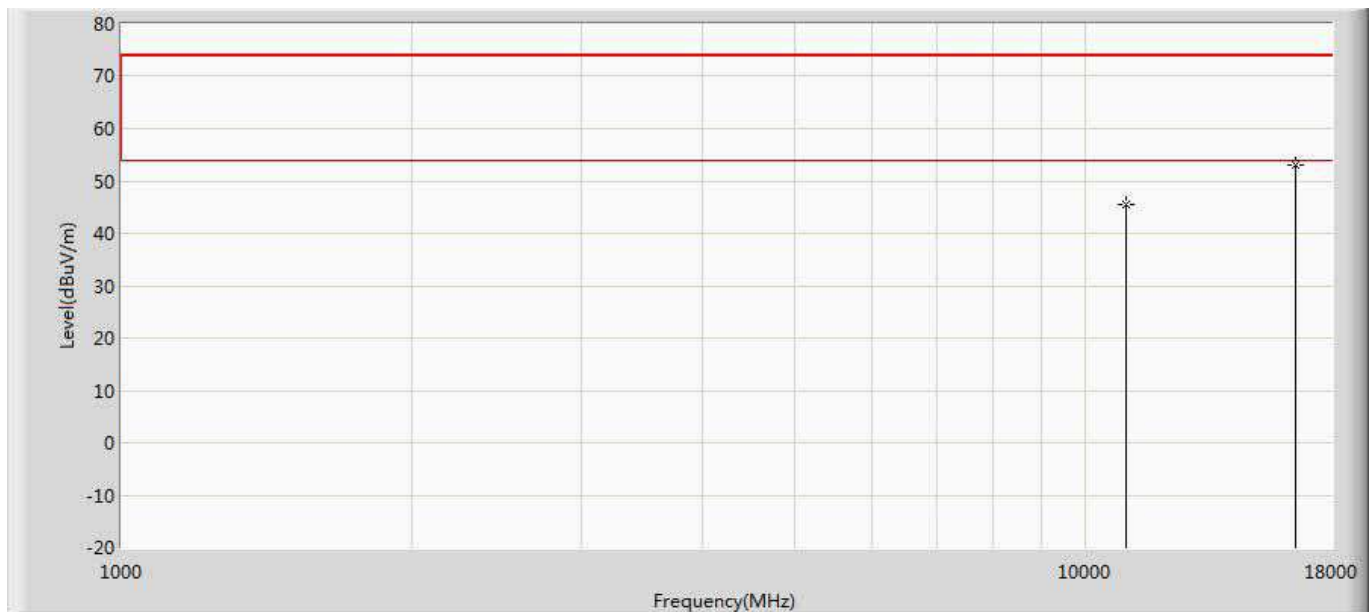


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11000.000	45.143	35.400	-28.857	74.000	9.742	0	0	PK
2	*	16500.000	53.721	34.658	-20.279	74.000	19.063	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 162
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 10:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5500MHz by 11a SISO	

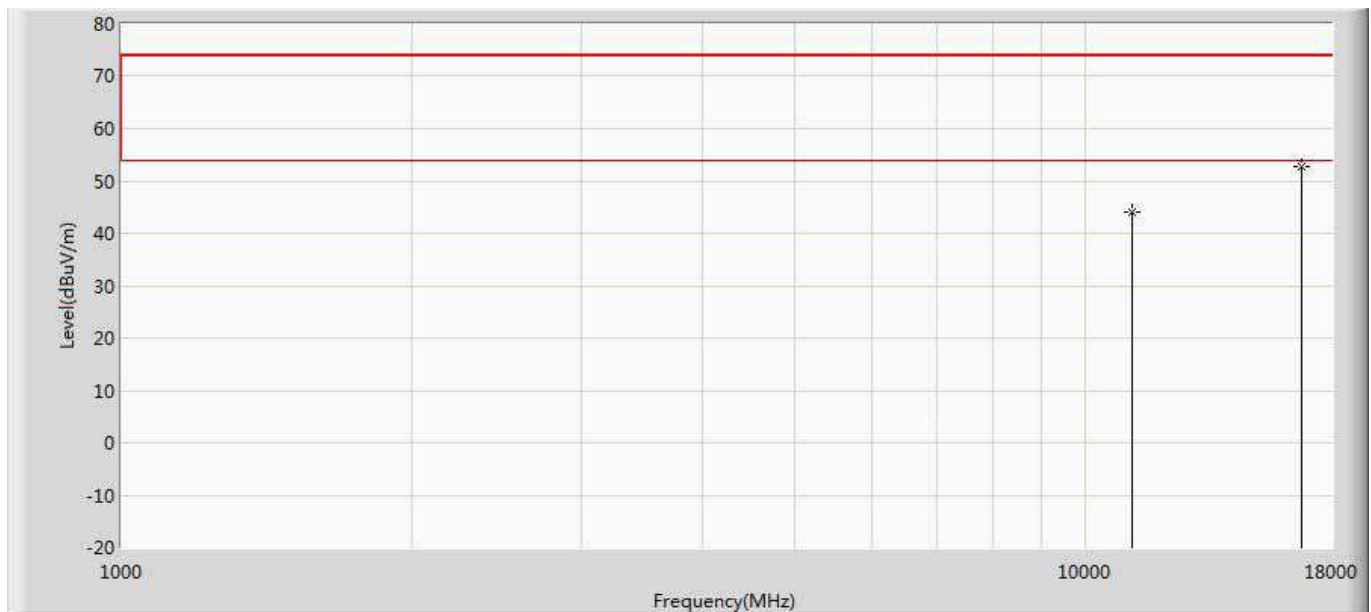


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11000.000	45.429	35.686	-28.571	74.000	9.742	0	0	PK
2	*	16500.000	53.002	33.939	-20.998	74.000	19.063	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 163
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 10:59
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5580MHz by 11a SISO	

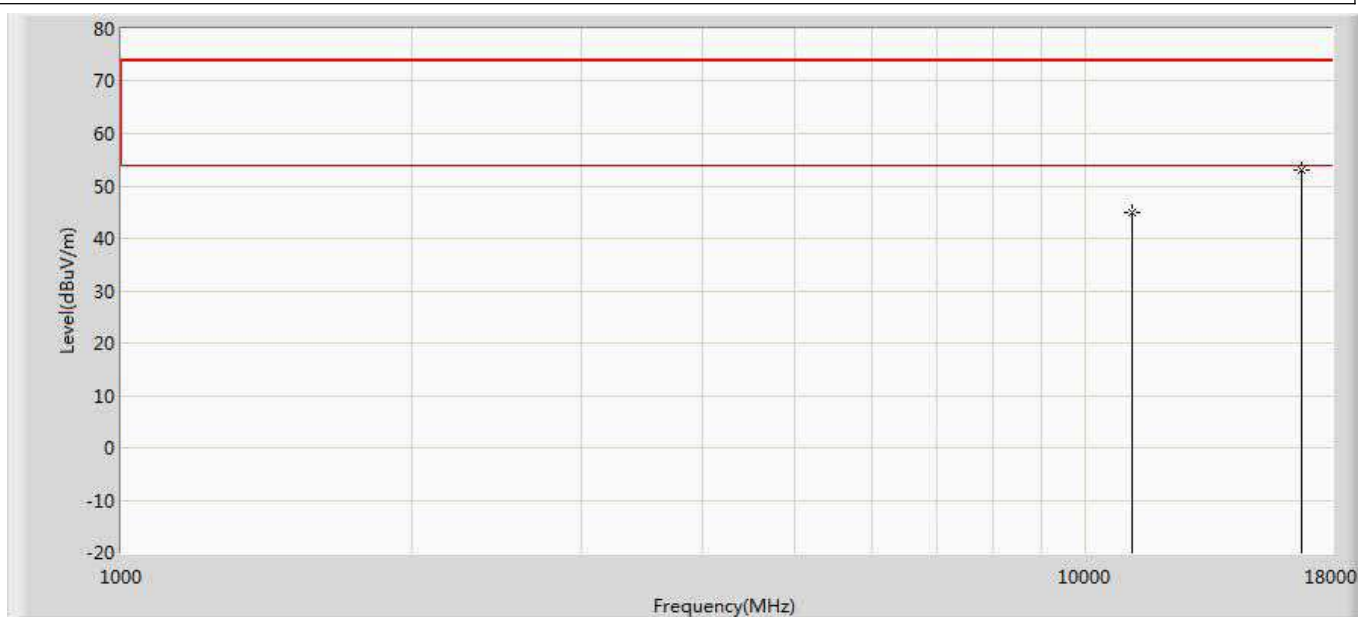


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11160.000	44.202	34.608	-29.798	74.000	9.594	0	0	PK
2	*	16740.000	52.734	34.000	-21.266	74.000	18.734	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 164
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5580MHz by 11a SISO	

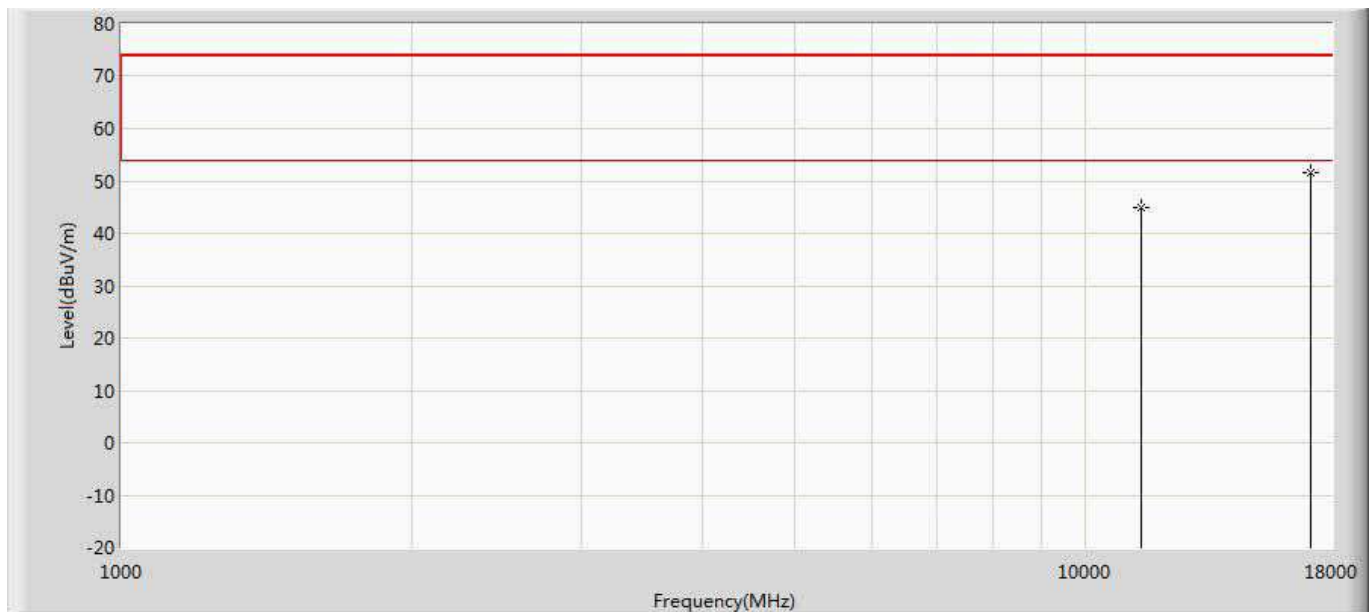


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11160.000	44.818	35.224	-29.182	74.000	9.594	0	0	PK
2	*	16740.000	53.057	34.323	-20.943	74.000	18.734	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 165
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5700MHz by 11a SISO	

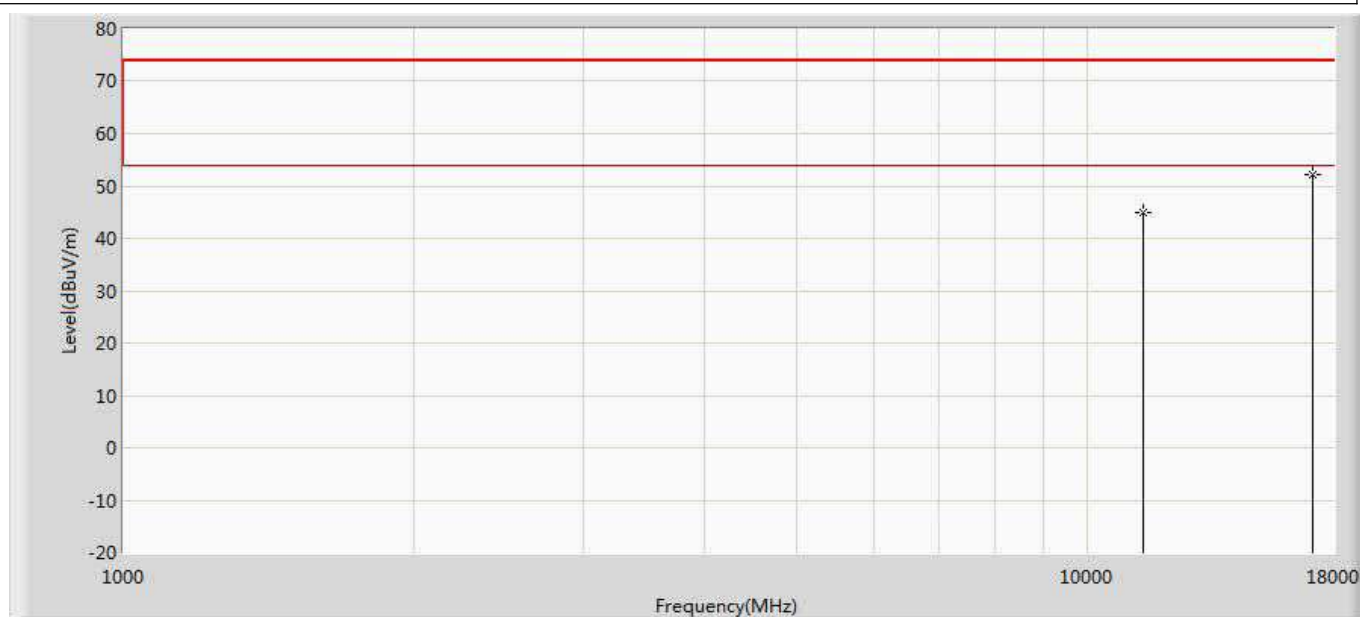


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11400.000	44.903	35.273	-29.097	74.000	9.631	0	0	PK
2	*	17100.000	51.637	33.506	-22.363	74.000	18.131	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 166
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5700MHz by 11a SISO	

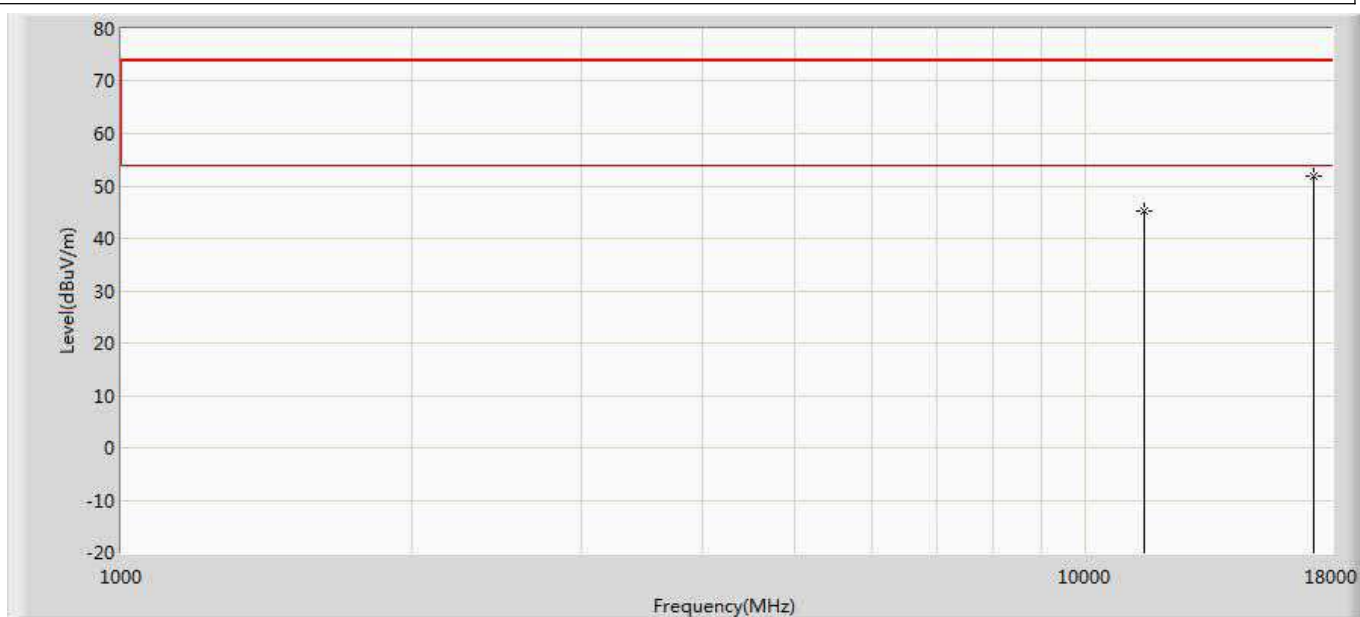


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11400.000	44.844	35.214	-29.156	74.000	9.631	0	0	PK
2	*	17100.000	52.163	34.032	-21.837	74.000	18.131	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 167
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5745MHz by 11a SISO	

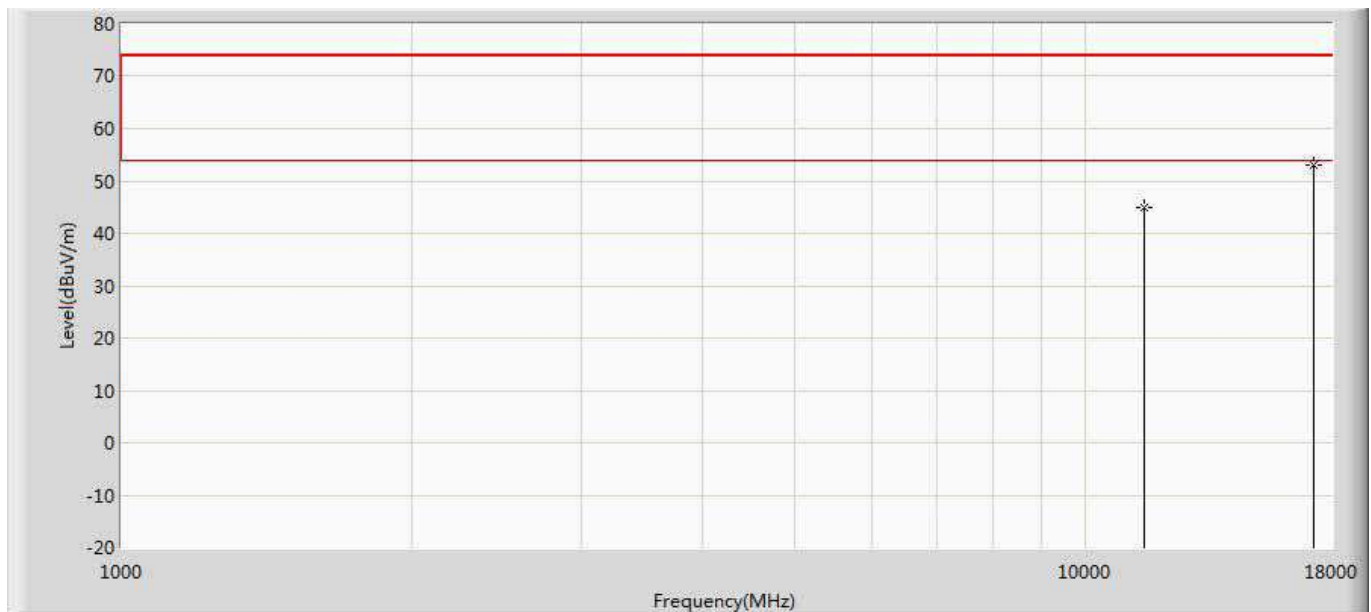


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11490.000	45.332	36.081	-28.668	74.000	9.250	0	0	PK
2	*	17235.000	51.835	31.507	-22.165	74.000	20.328	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 168
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5745MHz by 11a SISO	

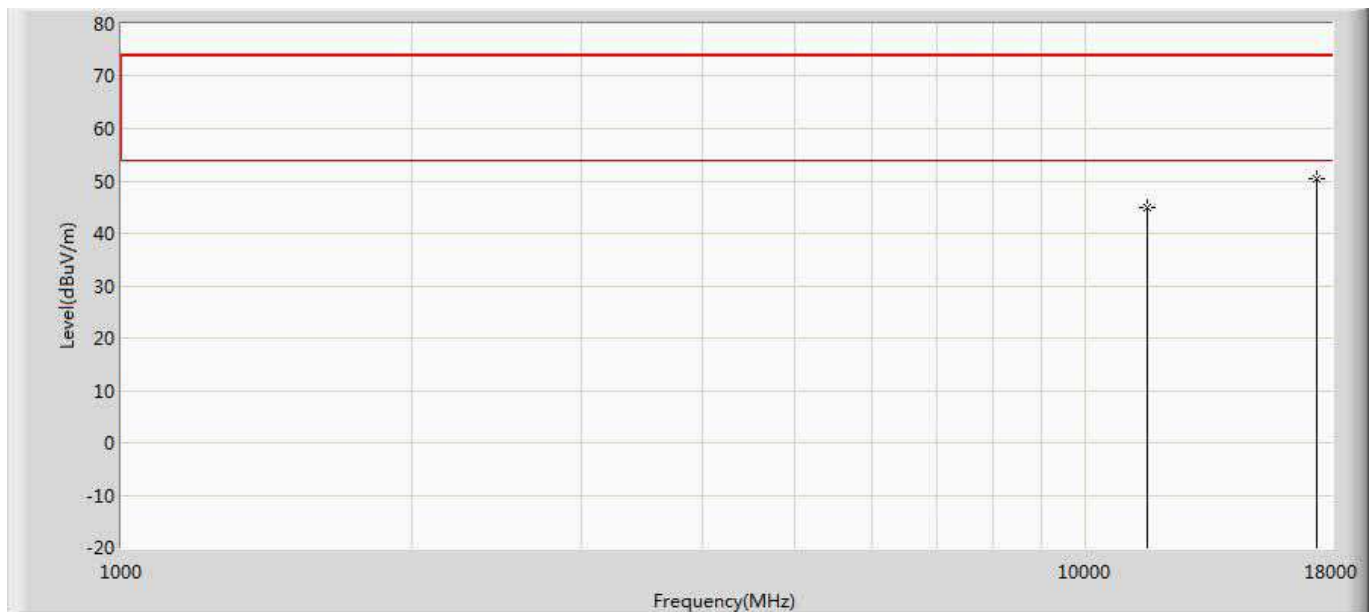


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11490.000	44.903	35.652	-29.097	74.000	9.250	0	0	PK
2	*	17235.000	53.086	32.758	-20.914	74.000	20.328	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 169
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5785MHz by 11a SISO	

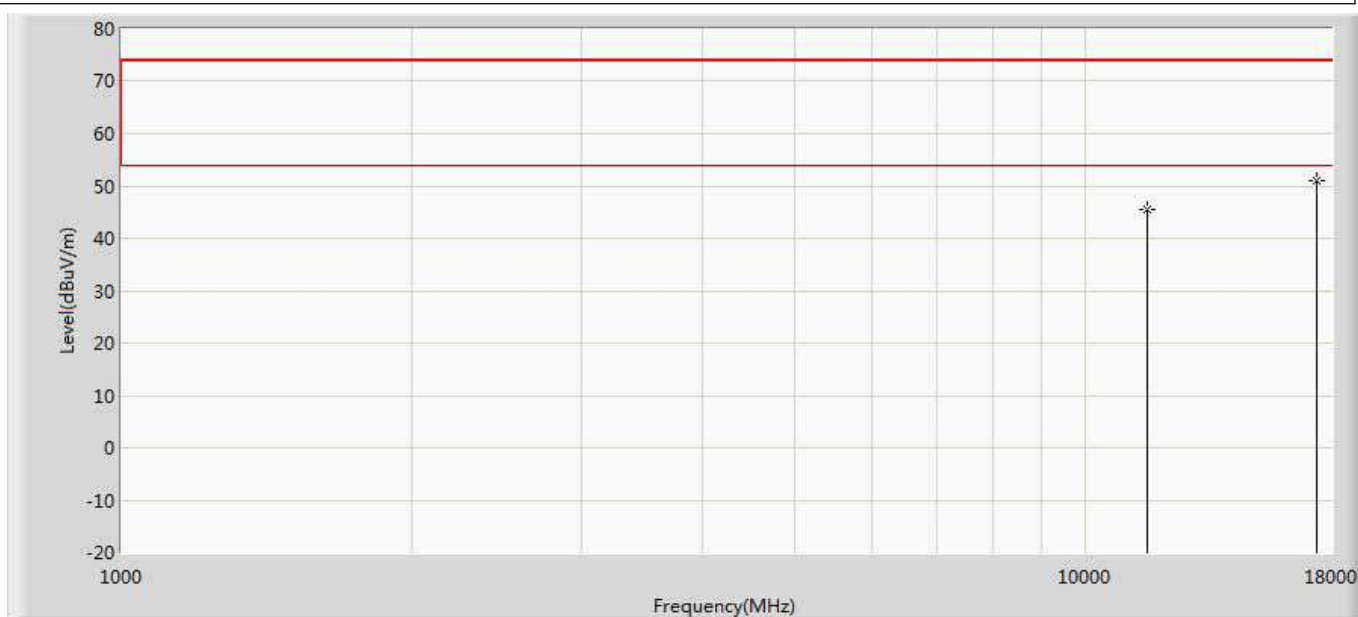


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11570.000	45.067	35.328	-28.933	74.000	9.740	0	0	PK
2	*	17355.000	50.319	31.870	-23.681	74.000	18.448	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 170
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5785MHz by 11a SISO	

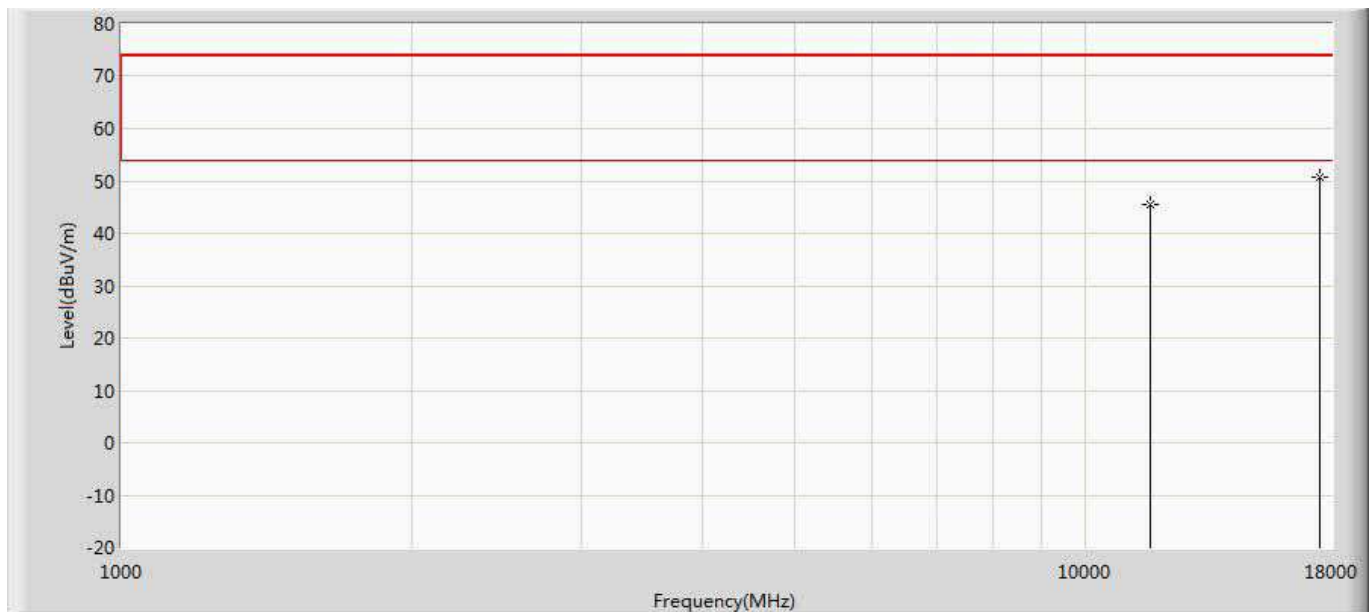


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11570.000	45.546	35.807	-28.454	74.000	9.740	0	0	PK
2	*	17355.000	51.129	32.680	-22.871	74.000	18.448	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 171
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5825MHz by 11a SISO	

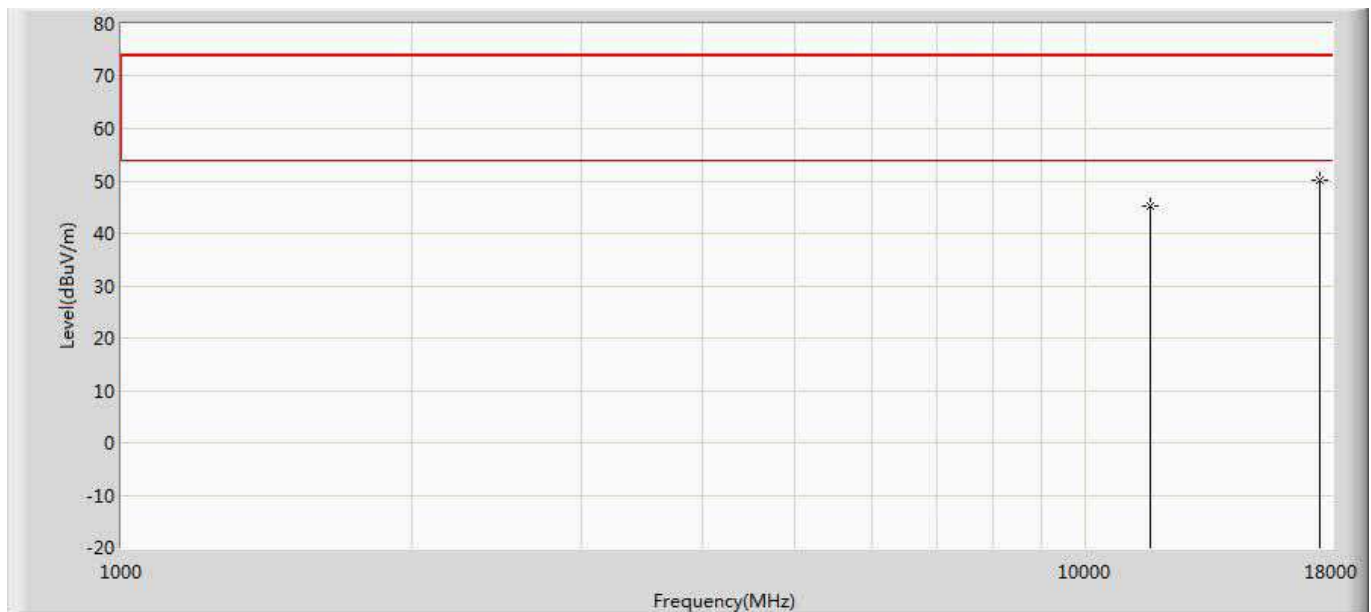


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11650.000	45.610	35.576	-28.390	74.000	10.034	0	0	PK
2	*	17475.000	50.803	33.508	-23.197	74.000	17.294	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 172
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5825MHz by 11a SISO	

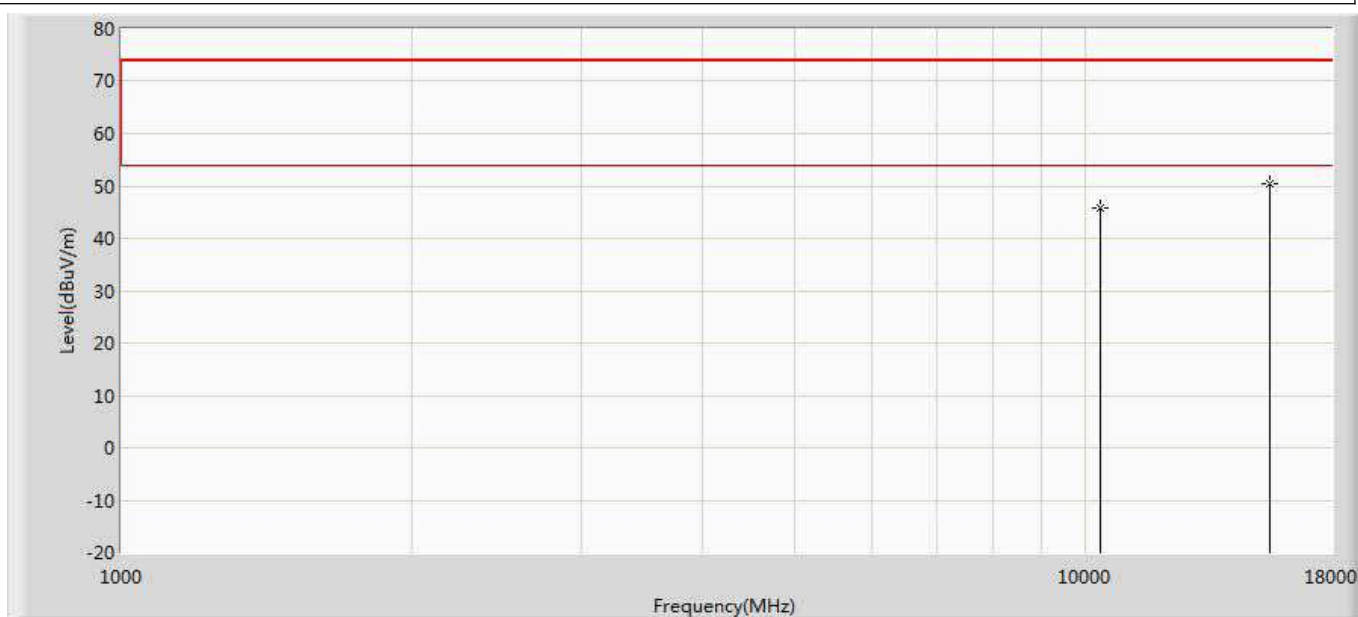


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11650.000	45.304	35.270	-28.696	74.000	10.034	0	0	PK
2	*	17475.000	50.093	32.798	-23.907	74.000	17.294	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 173
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5180MHz by 11n(20MHz) SISO	

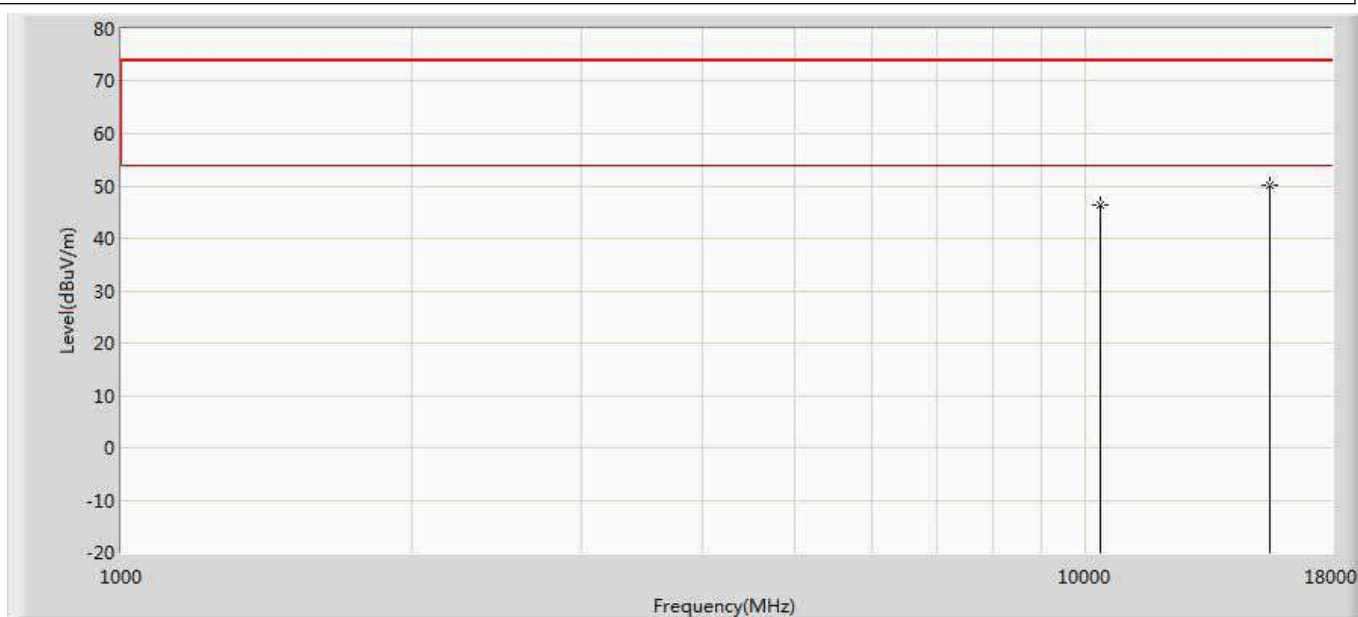


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10360.000	45.934	36.978	-28.066	74.000	8.957	0	0	PK
2	*	15540.000	50.499	33.928	-23.501	74.000	16.571	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 174
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5180MHz by 11n(20MHz) SISO	

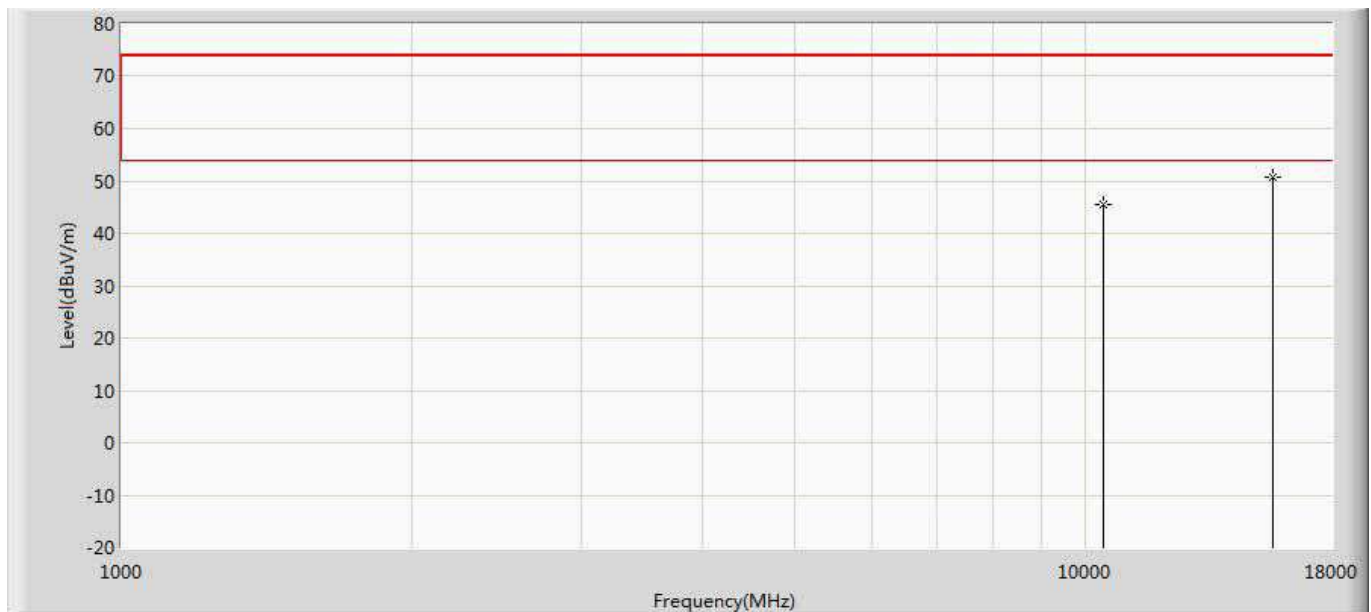


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10360.000	46.488	37.532	-27.512	74.000	8.957	0	0	PK
2	*	15540.000	50.247	33.676	-23.753	74.000	16.571	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 175
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5220MHz by 11n(20MHz) SISO	

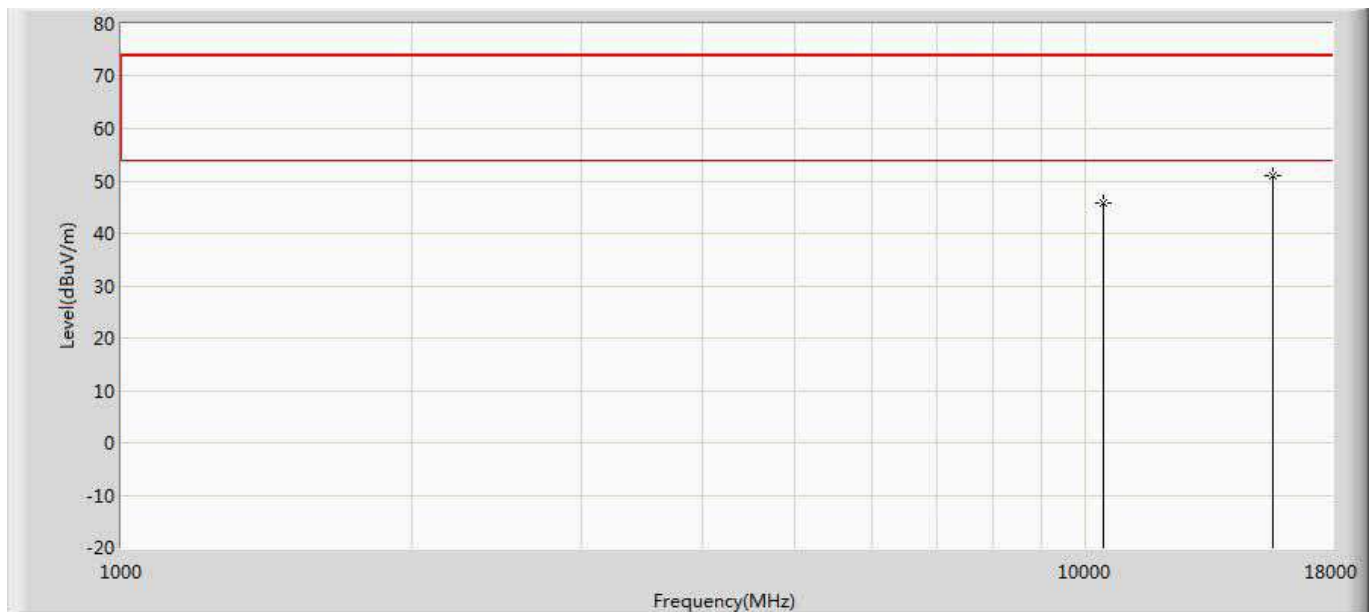


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10440.000	45.525	36.728	-28.475	74.000	8.797	0	0	PK
2	*	15660.000	50.822	33.645	-23.178	74.000	17.177	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 176
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5220MHz by 11n(20MHz) SISO	

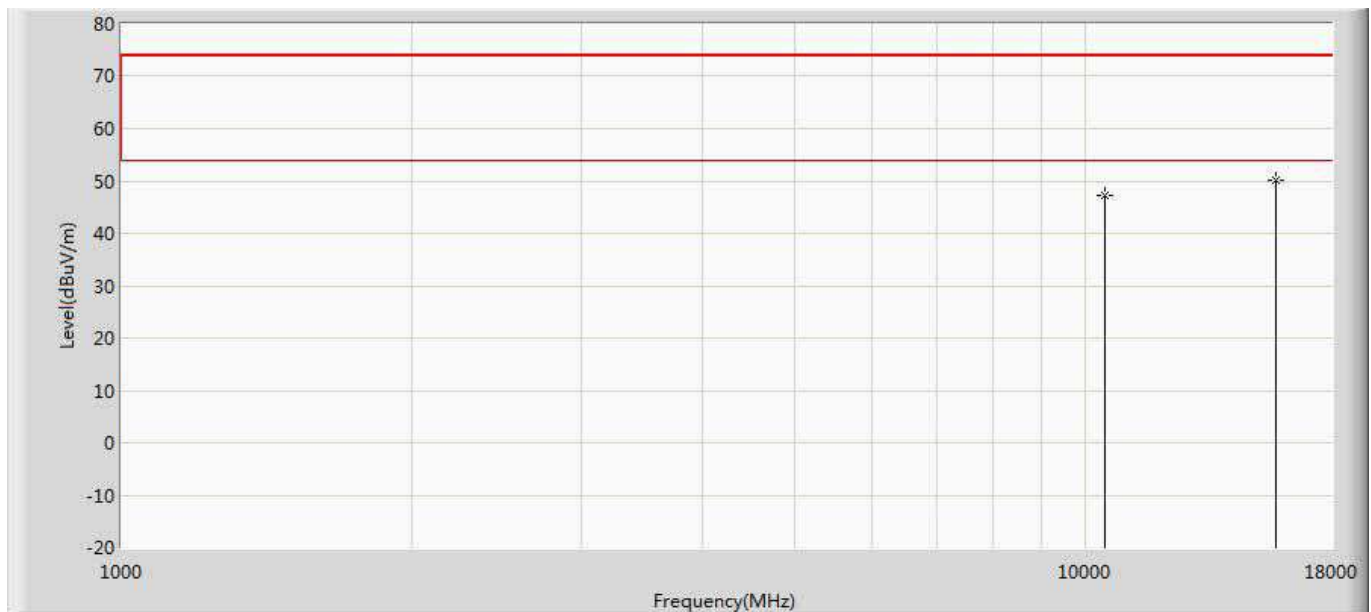


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10440.000	45.827	37.030	-28.173	74.000	8.797	0	0	PK
2	*	15660.000	51.037	33.860	-22.963	74.000	17.177	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 177
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5240MHz by 11n(20MHz) SISO	

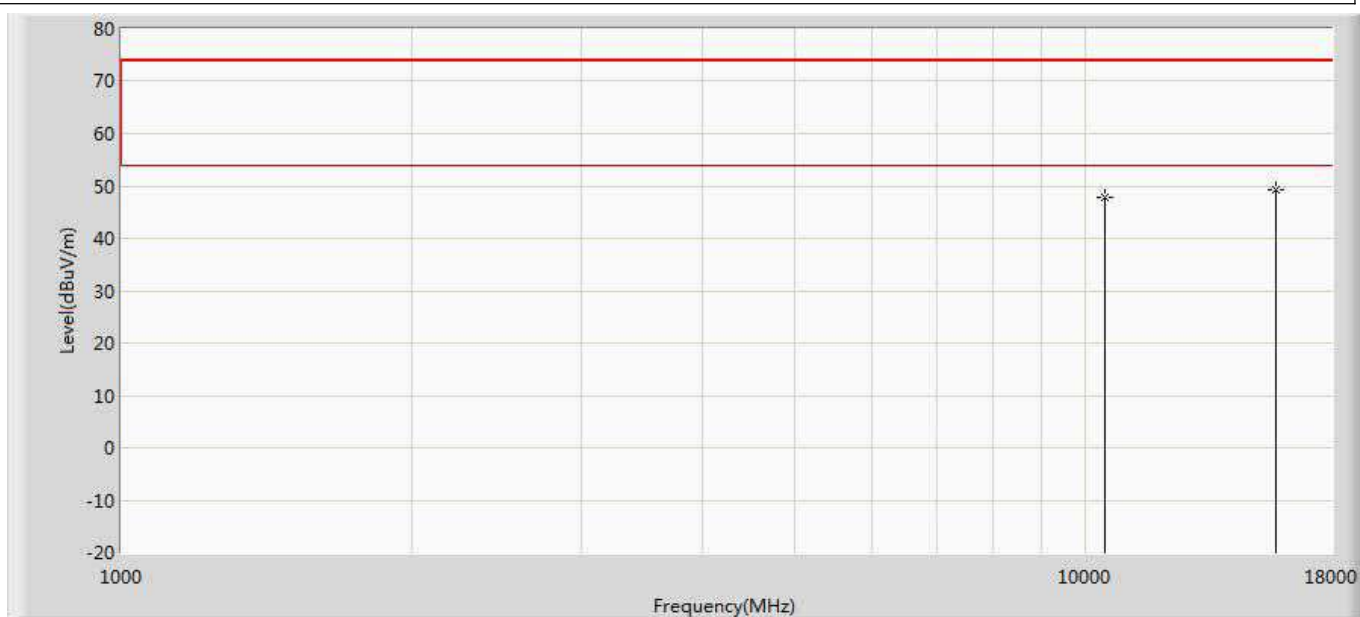


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10480.000	47.333	37.118	-26.667	74.000	10.215	0	0	PK
2	*	15720.000	50.001	33.944	-23.999	74.000	16.058	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 178
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5240MHz by 11n(20MHz) SISO	

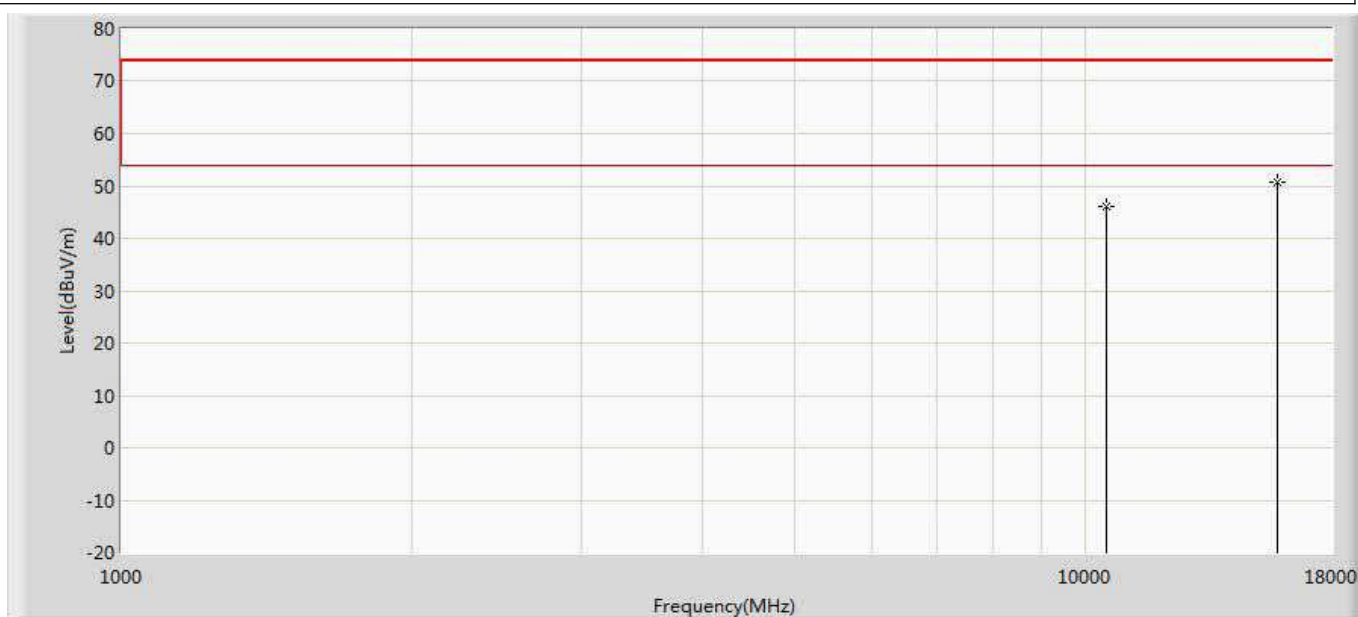


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10480.000	47.875	37.660	-26.125	74.000	10.215	0	0	PK
2	*	15720.000	49.262	33.205	-24.738	74.000	16.058	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 179
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:01
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5260MHz by 11n(20MHz) SISO	

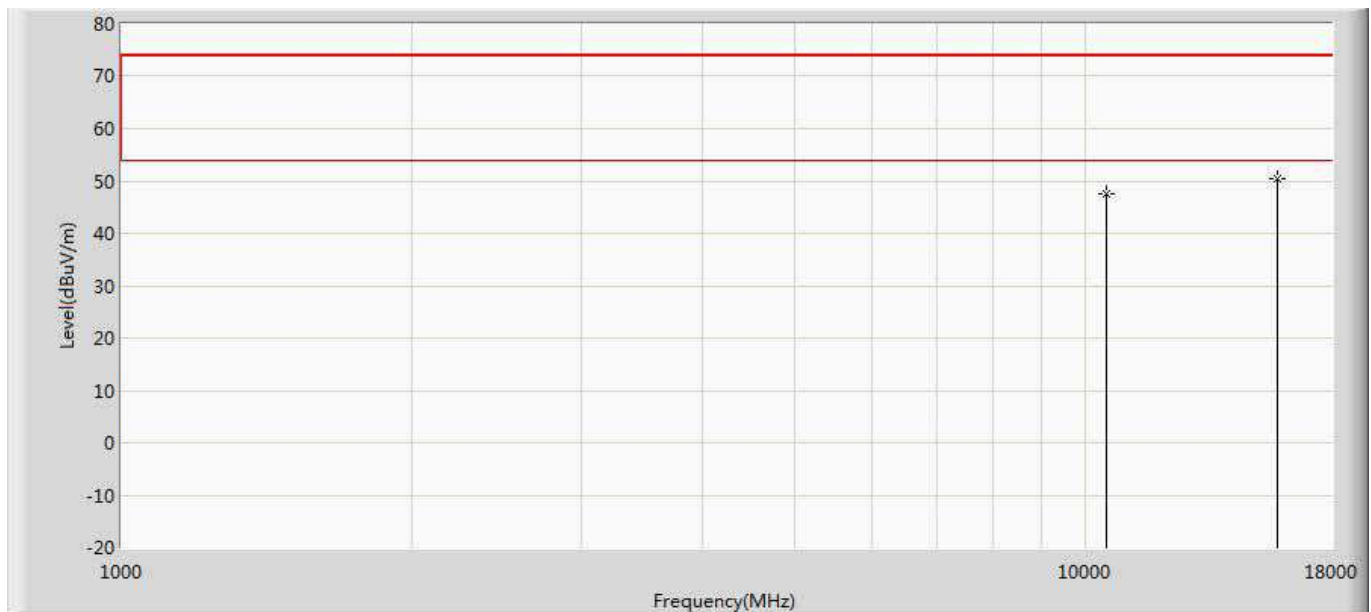


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10520.000	46.163	37.462	-27.837	74.000	8.701	0	0	PK
2	*	15780.000	50.666	33.293	-23.334	74.000	17.373	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 180
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5260MHz by 11n(20MHz) SISO	

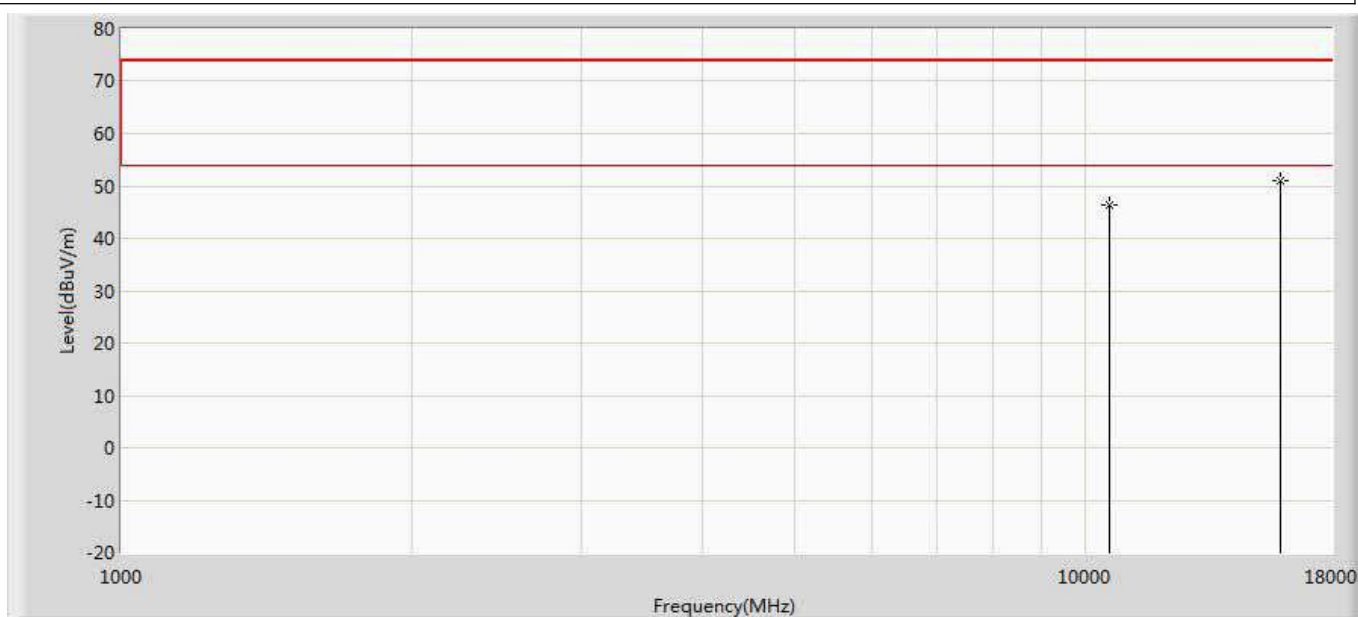


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10520.000	47.422	38.721	-26.578	74.000	8.701	0	0	PK
2	*	15780.000	50.328	32.955	-23.672	74.000	17.373	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 181
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5300MHz by 11n(20MHz) SISO	

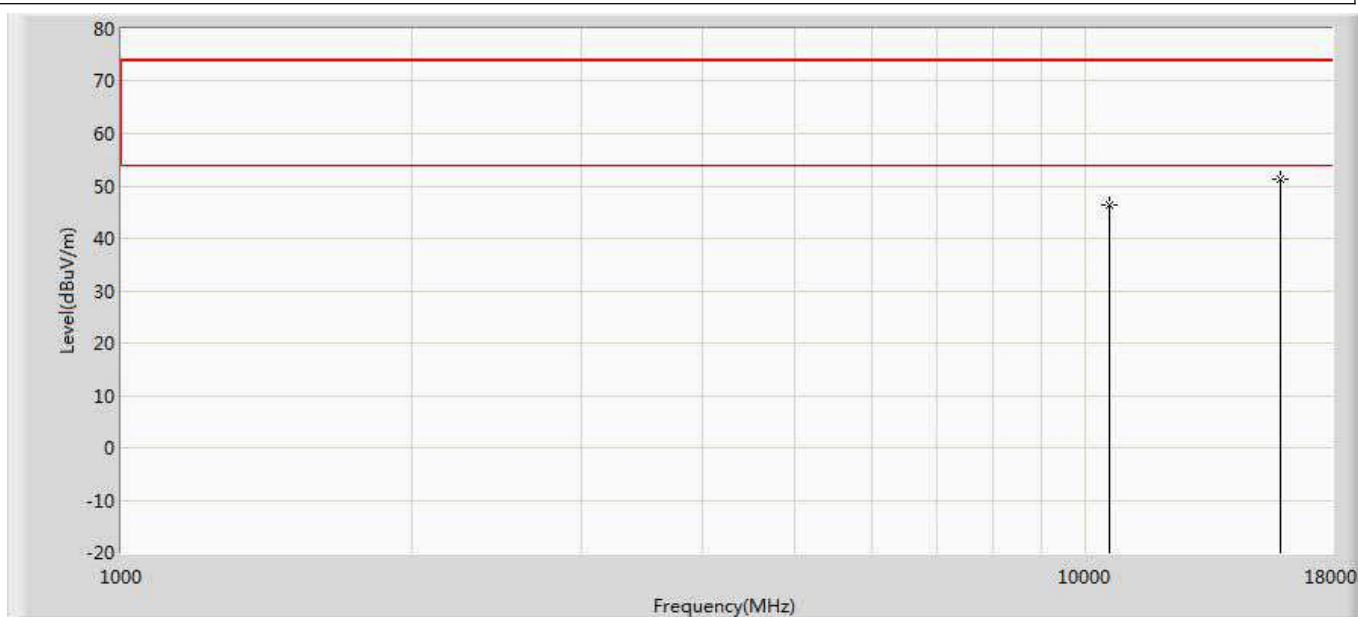


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10600.000	46.403	37.049	-27.597	74.000	9.354	0	0	PK
2	*	15900.000	50.898	33.324	-23.102	74.000	17.574	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 182
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5300MHz by 11n(20MHz) SISO	

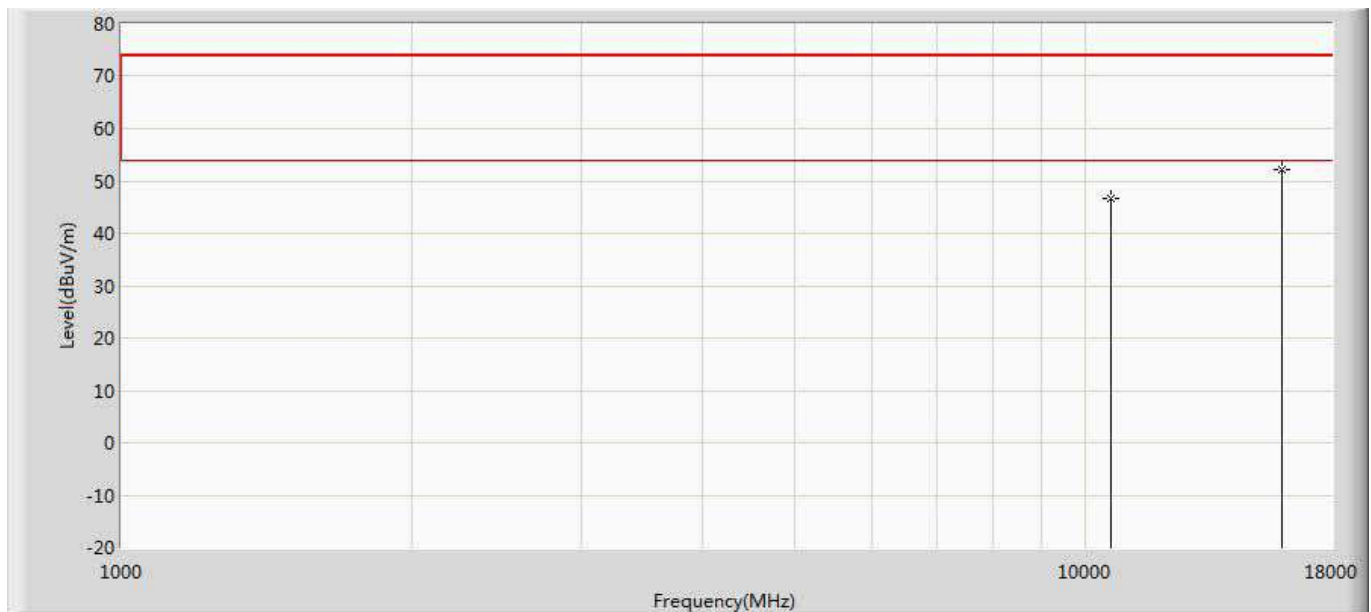


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10600.000	46.371	37.017	-27.629	74.000	9.354	0	0	PK
2	*	15900.000	51.349	33.775	-22.651	74.000	17.574	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 183
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5320MHz by 11n(20MHz) SISO	

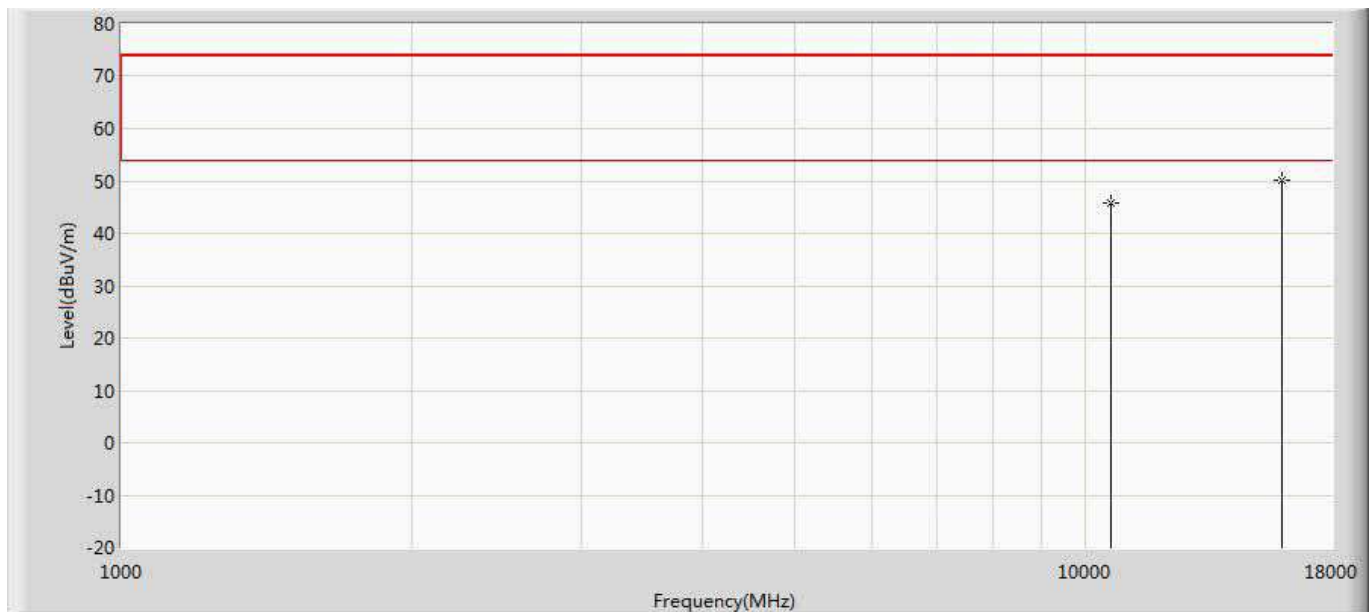


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10640.000	46.558	37.586	-27.442	74.000	8.972	0	0	PK
2	*	15960.000	52.030	34.259	-21.970	74.000	17.771	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 184
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5320MHz by 11n(20MHz) SISO	

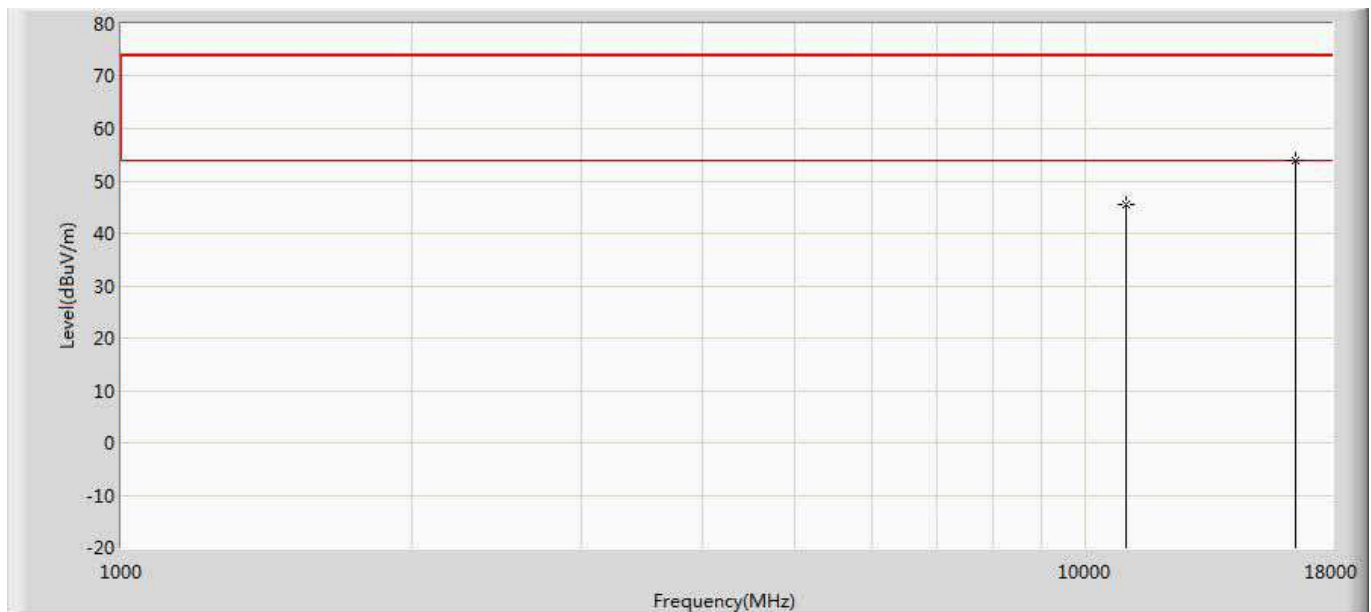


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10640.000	45.795	36.823	-28.205	74.000	8.972	0	0	PK
2	*	15960.000	50.205	32.434	-23.795	74.000	17.771	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 185
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5500MHz by 11n(20MHz) SISO	

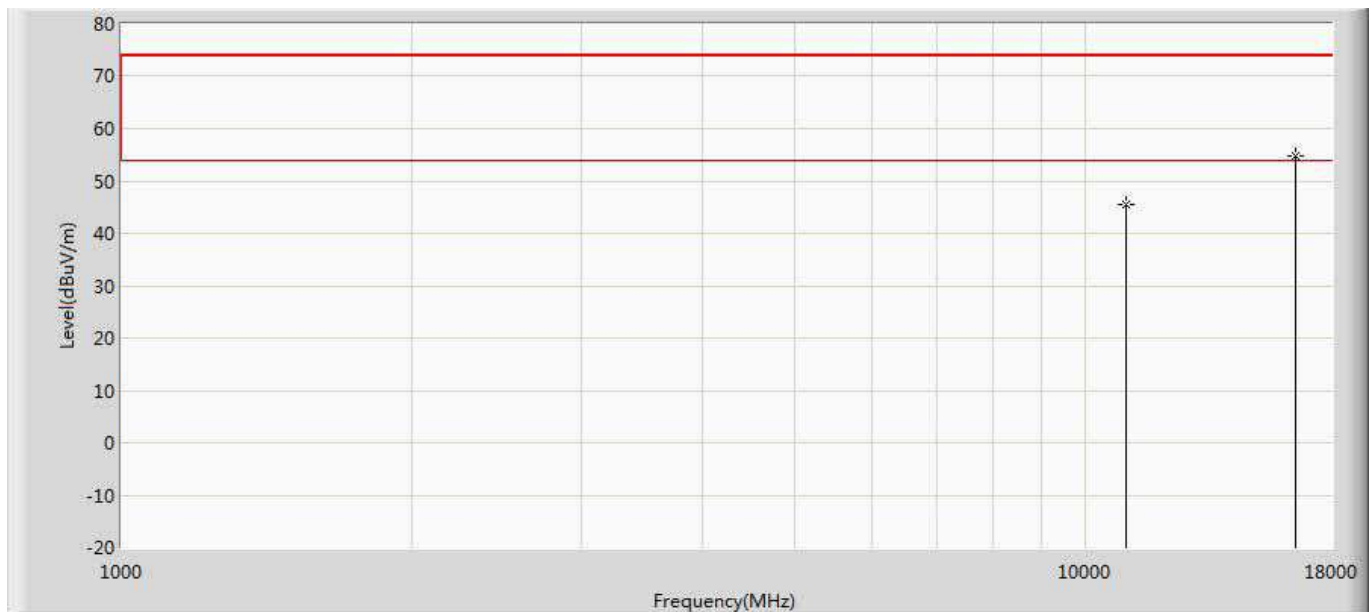


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11000.000	45.566	35.823	-28.434	74.000	9.742	0	0	PK
2	*	16500.000	53.824	34.761	-20.176	74.000	19.063	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 186
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5500MHz by 11n(20MHz) SISO	

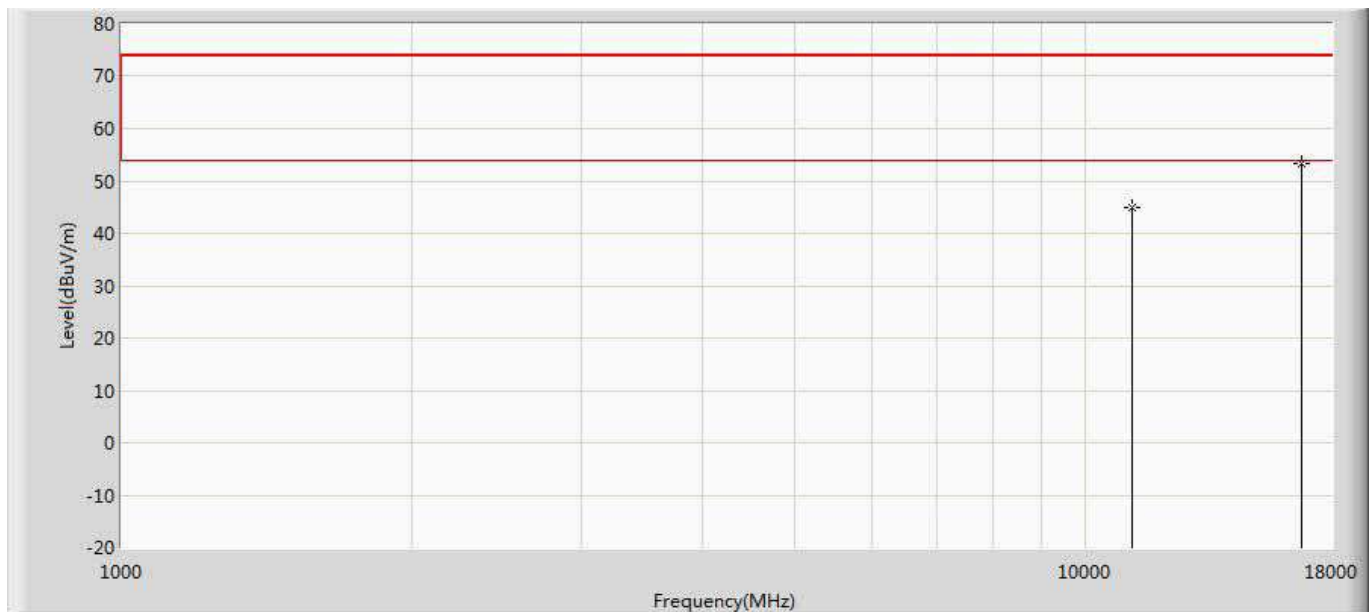


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11000.000	45.537	35.794	-28.463	74.000	9.742	0	0	PK
2	*	16500.000	54.670	35.607	-19.330	74.000	19.063	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 187
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5580MHz by 11n(20MHz) SISO	

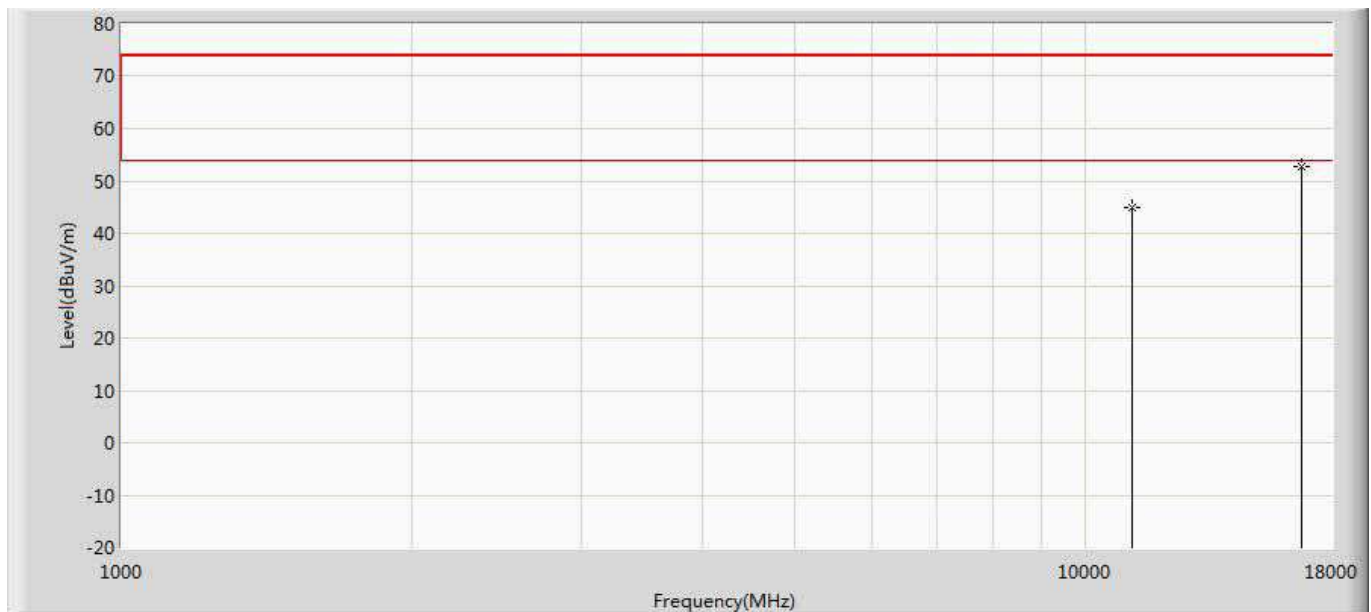


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11160.000	44.855	35.261	-29.145	74.000	9.594	0	0	PK
2	*	16740.000	53.235	34.501	-20.765	74.000	18.734	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 188
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5580MHz by 11n(20MHz) SISO	

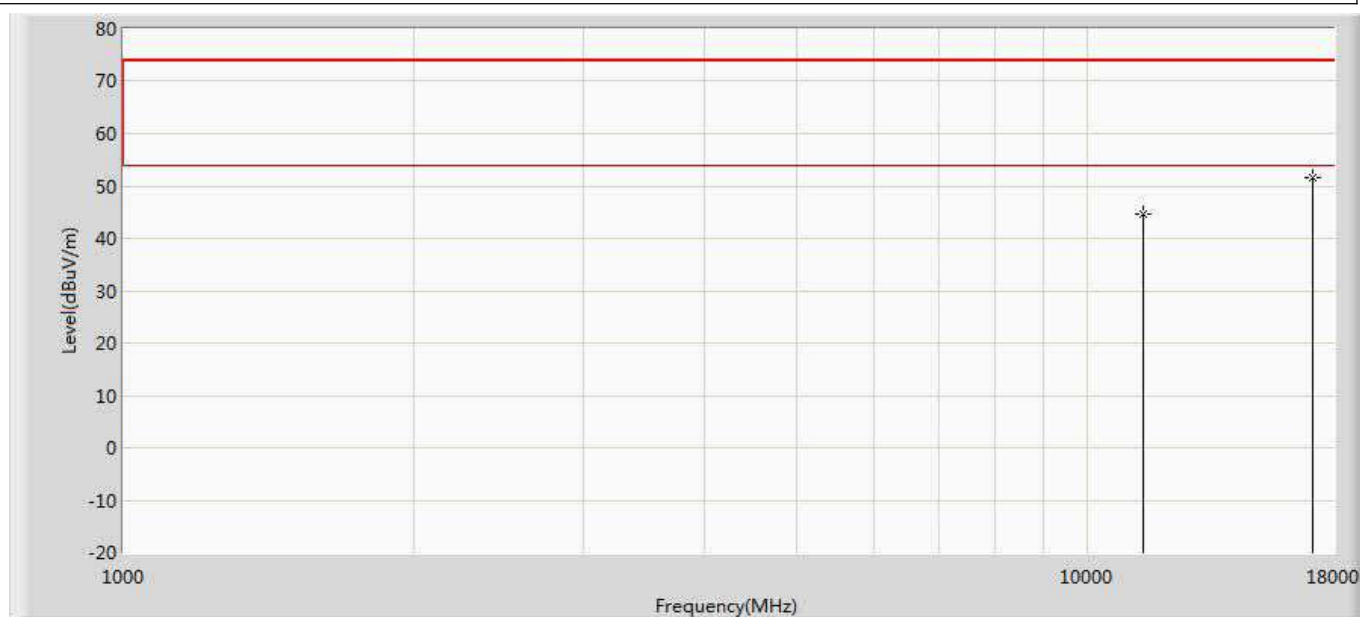


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11160.000	45.050	35.456	-28.950	74.000	9.594	0	0	PK
2	*	16740.000	52.811	34.077	-21.189	74.000	18.734	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 189
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5700MHz by 11n(20MHz) SISO	

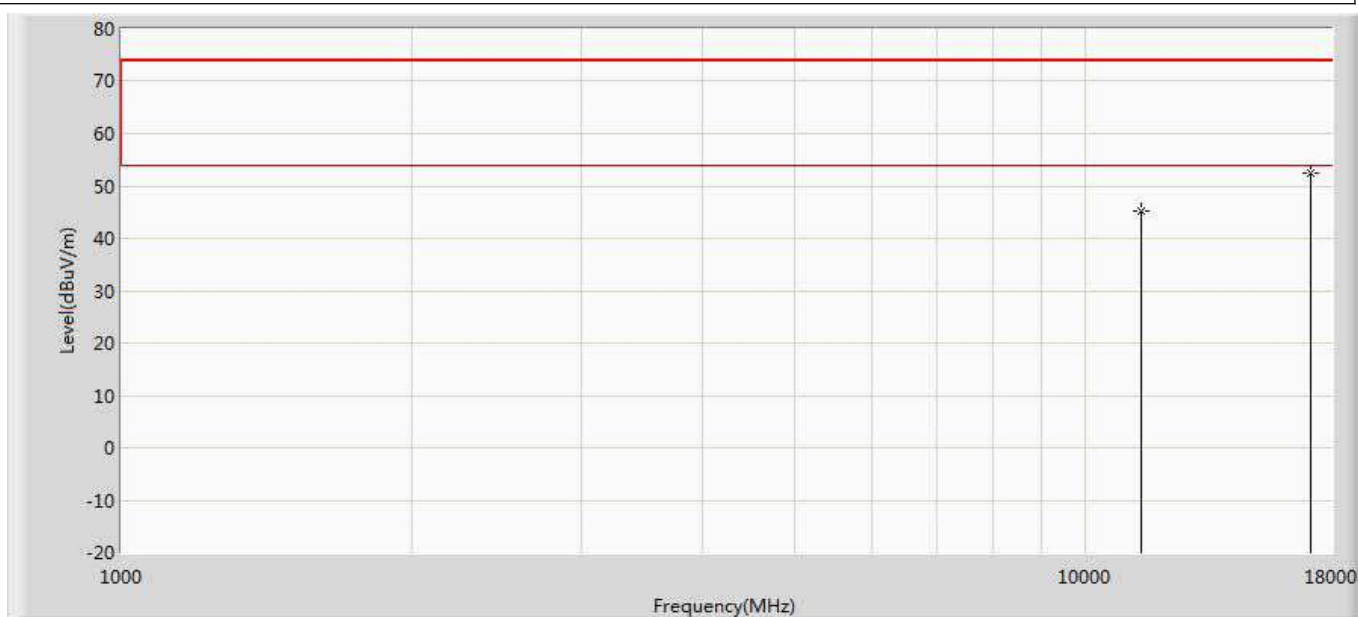


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11400.000	44.620	34.990	-29.380	74.000	9.631	0	0	PK
2	*	17100.000	51.712	33.581	-22.288	74.000	18.131	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 190
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5700MHz by 11n(20MHz) SISO	

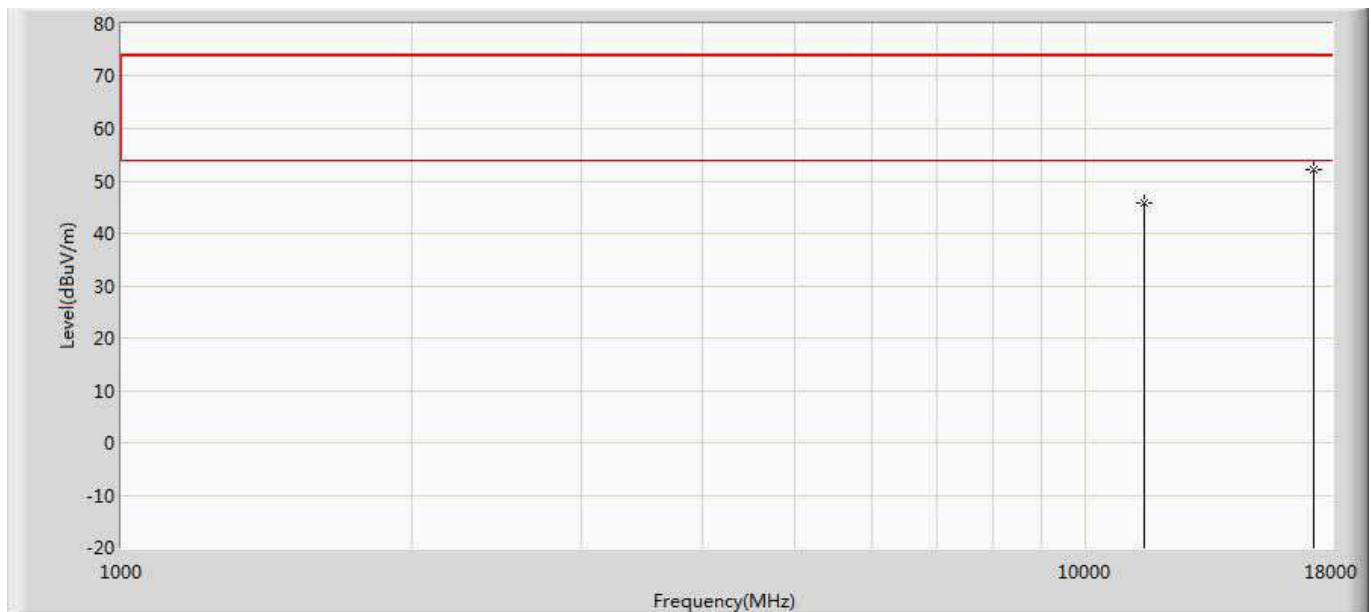


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11400.000	45.089	35.459	-28.911	74.000	9.631	0	0	PK
2	*	17100.000	52.420	34.289	-21.580	74.000	18.131	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 191
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5745MHz by 11n(20MHz) SISO	

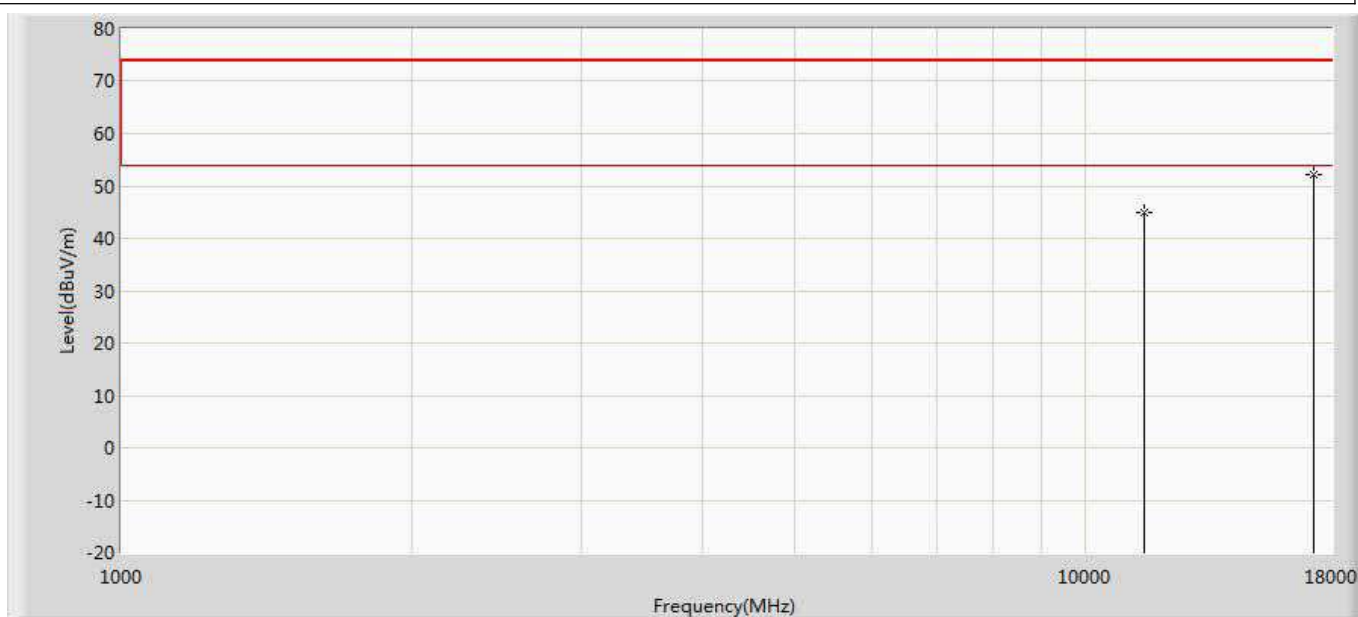


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11490.000	45.926	36.675	-28.074	74.000	9.250	0	0	PK
2	*	17235.000	52.297	31.969	-21.703	74.000	20.328	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 192
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5745MHz by 11n(20MHz) SISO	

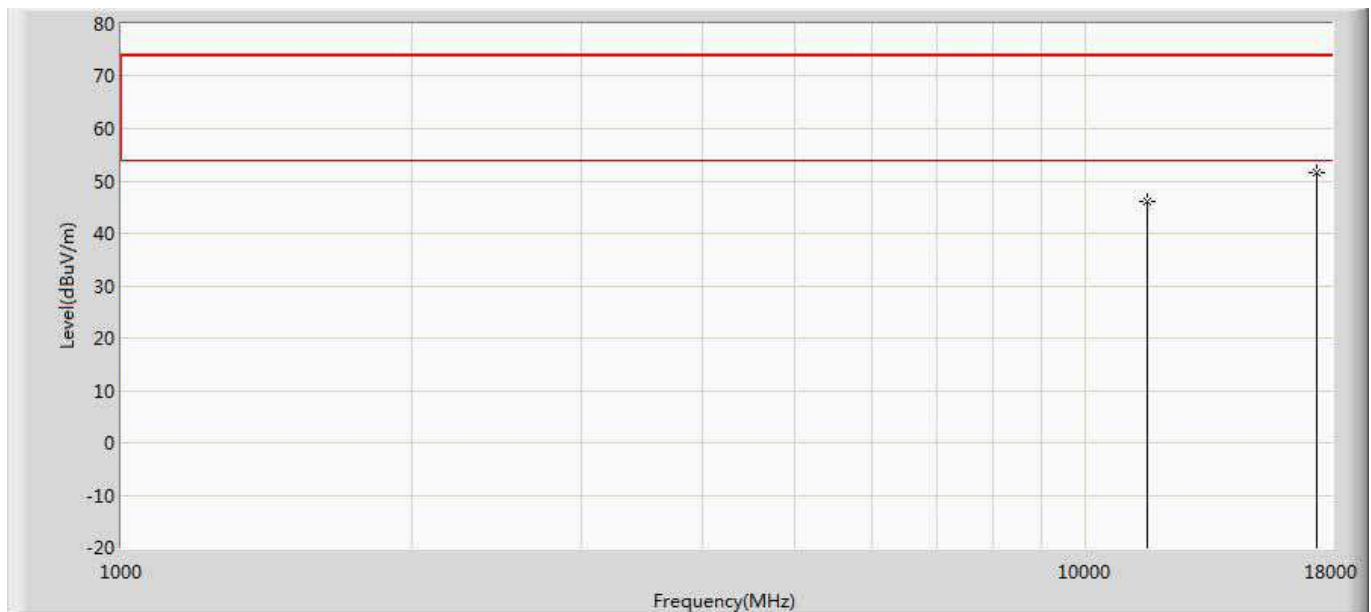


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11490.000	44.911	35.660	-29.089	74.000	9.250	0	0	PK
2	*	17235.000	52.079	31.751	-21.921	74.000	20.328	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 193
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5785MHz by 11n(20MHz) SISO	

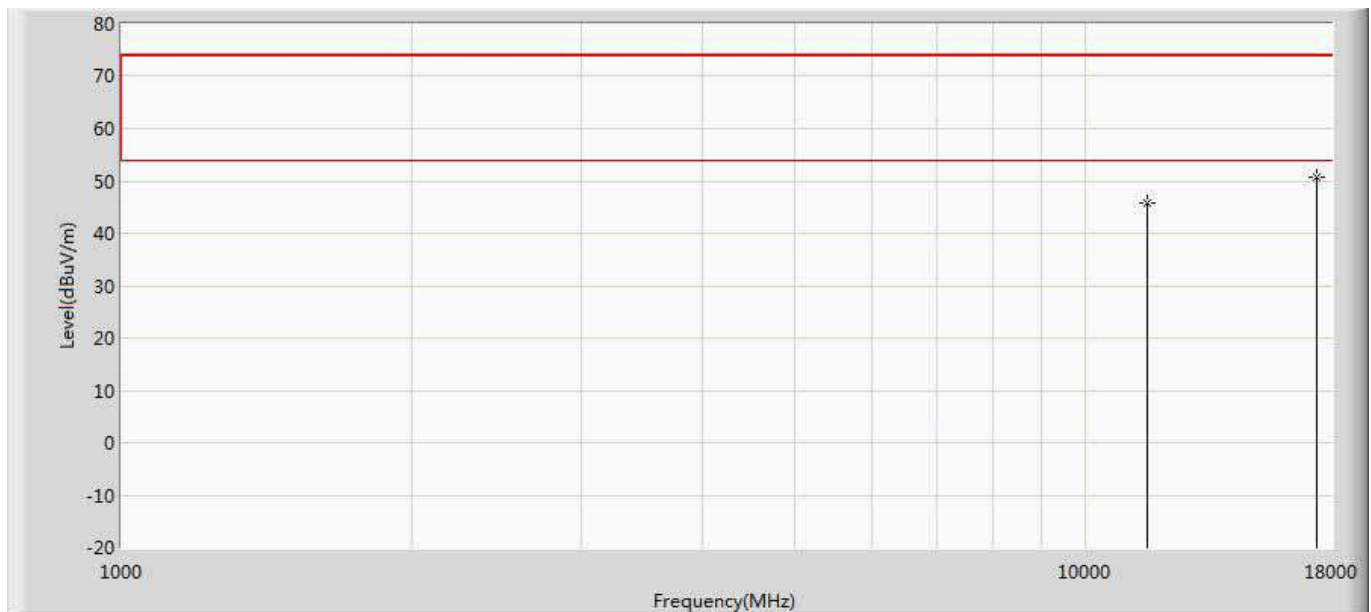


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11570.000	45.950	36.211	-28.050	74.000	9.740	0	0	PK
2	*	17355.000	51.601	33.152	-22.399	74.000	18.448	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 194
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5785MHz by 11n(20MHz) SISO	

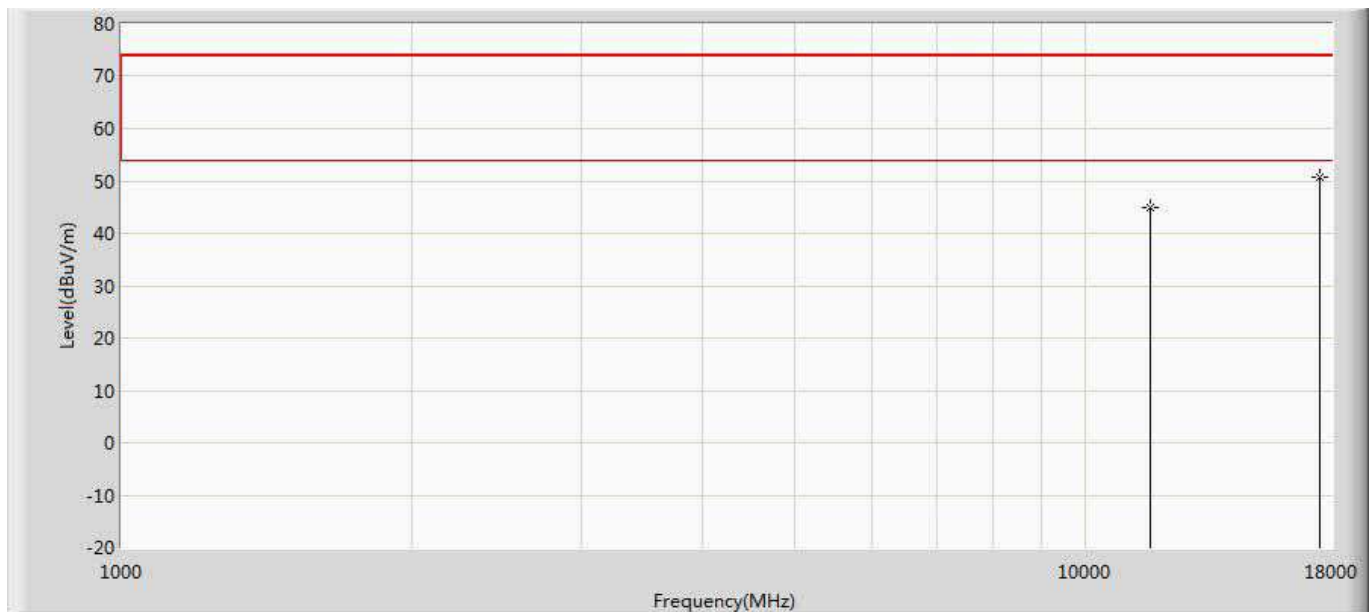


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11570.000	45.895	36.156	-28.105	74.000	9.740	0	0	PK
2	*	17355.000	50.736	32.287	-23.264	74.000	18.448	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 195
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:05
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5825MHz by 11n(20MHz) SISO	

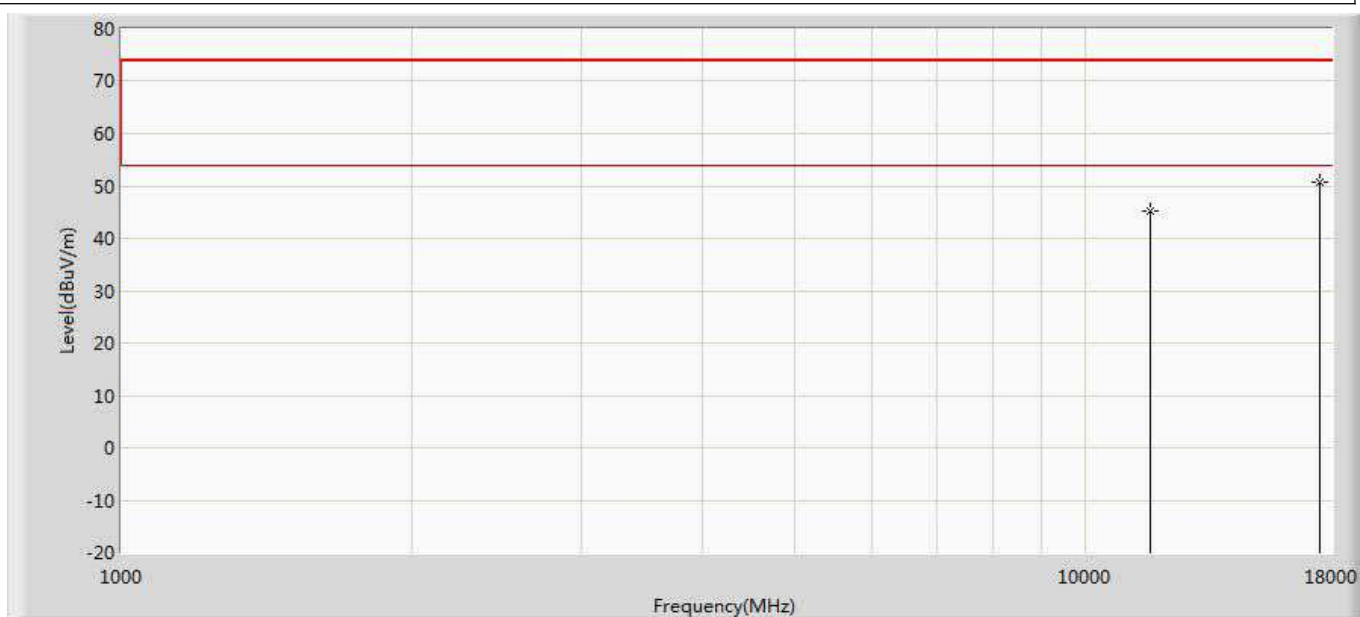


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11650.000	44.840	34.806	-29.160	74.000	10.034	0	0	PK
2	*	17475.000	50.700	33.405	-23.300	74.000	17.294	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 196
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:05
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5825MHz by 11n(20MHz) SISO	

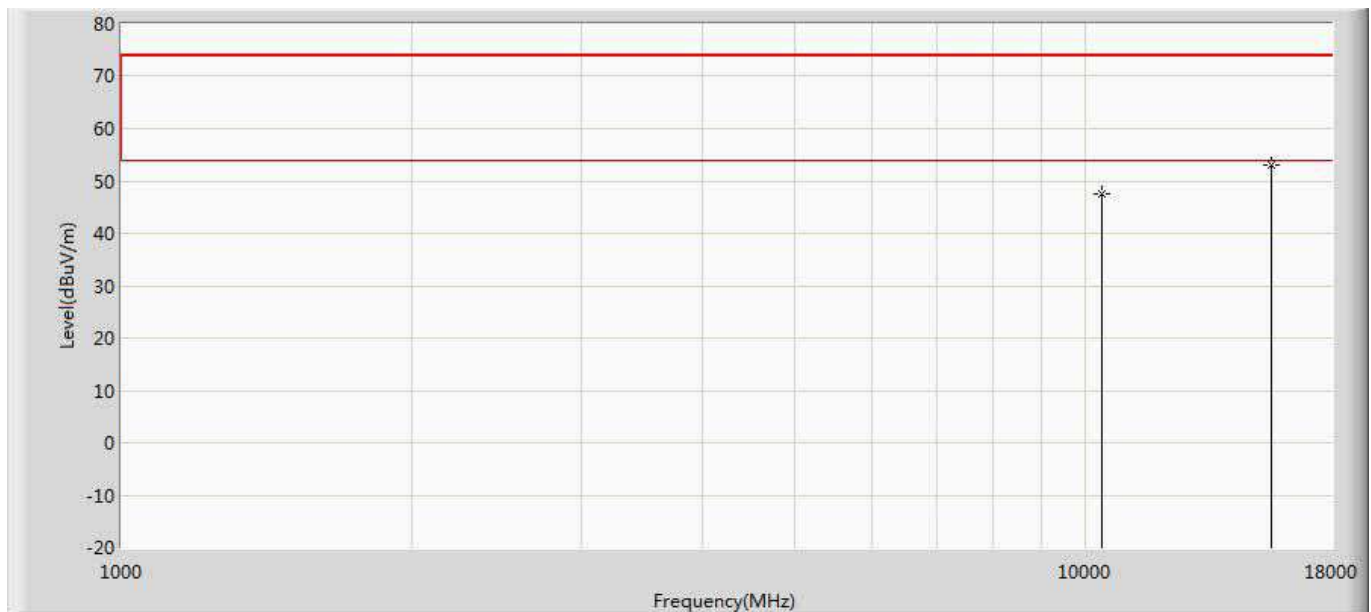


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11650.000	45.119	35.085	-28.881	74.000	10.034	0	0	PK
2	*	17475.000	50.668	33.373	-23.332	74.000	17.294	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 197
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:05
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 5190MHz by 11n(40MHz) SISO	

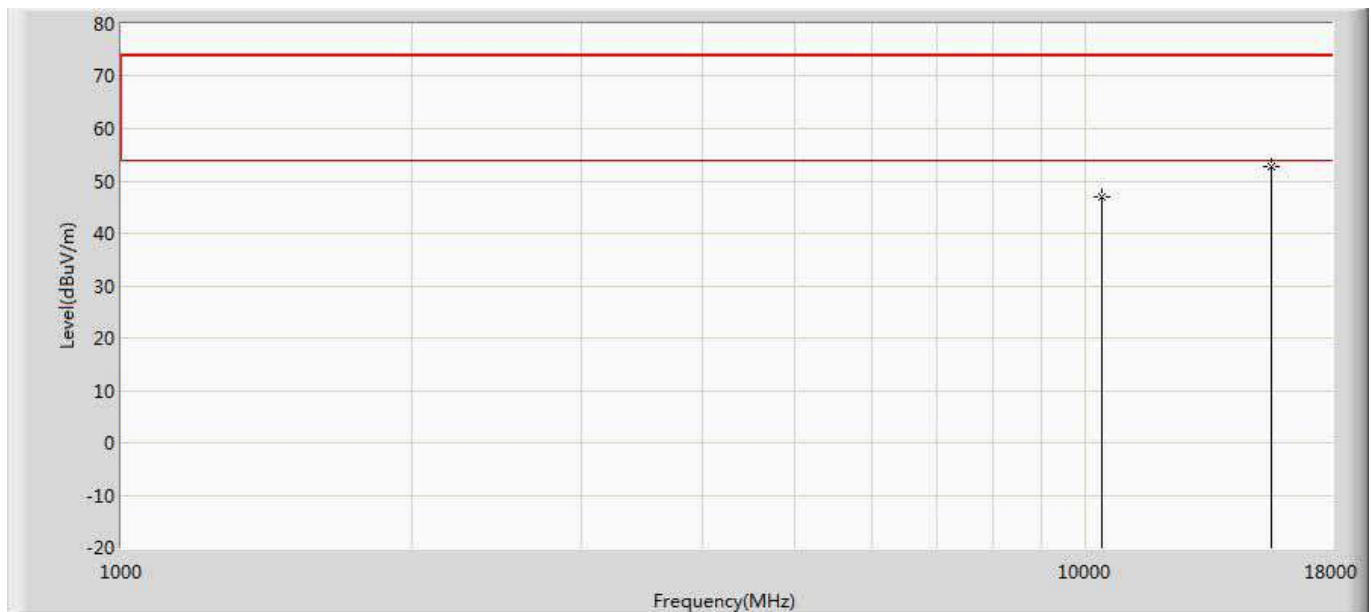


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10380.000	47.501	37.964	-26.499	74.000	9.537	0	0	PK
2	*	15570.000	53.065	34.517	-20.935	74.000	18.548	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 198
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 5190MHz by 11n(40MHz) SISO	

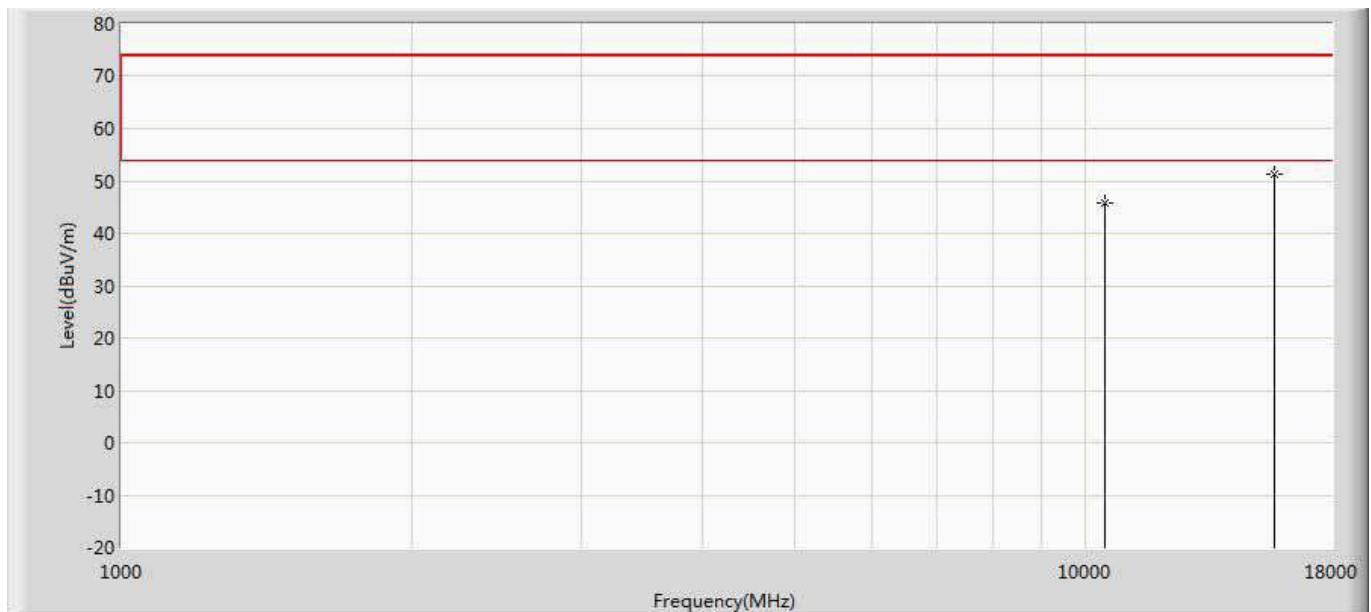


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10380.000	47.058	37.521	-26.942	74.000	9.537	0	0	PK
2	*	15570.000	52.894	34.346	-21.106	74.000	18.548	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 199
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 5230MHz by 11n(40MHz) SISO	

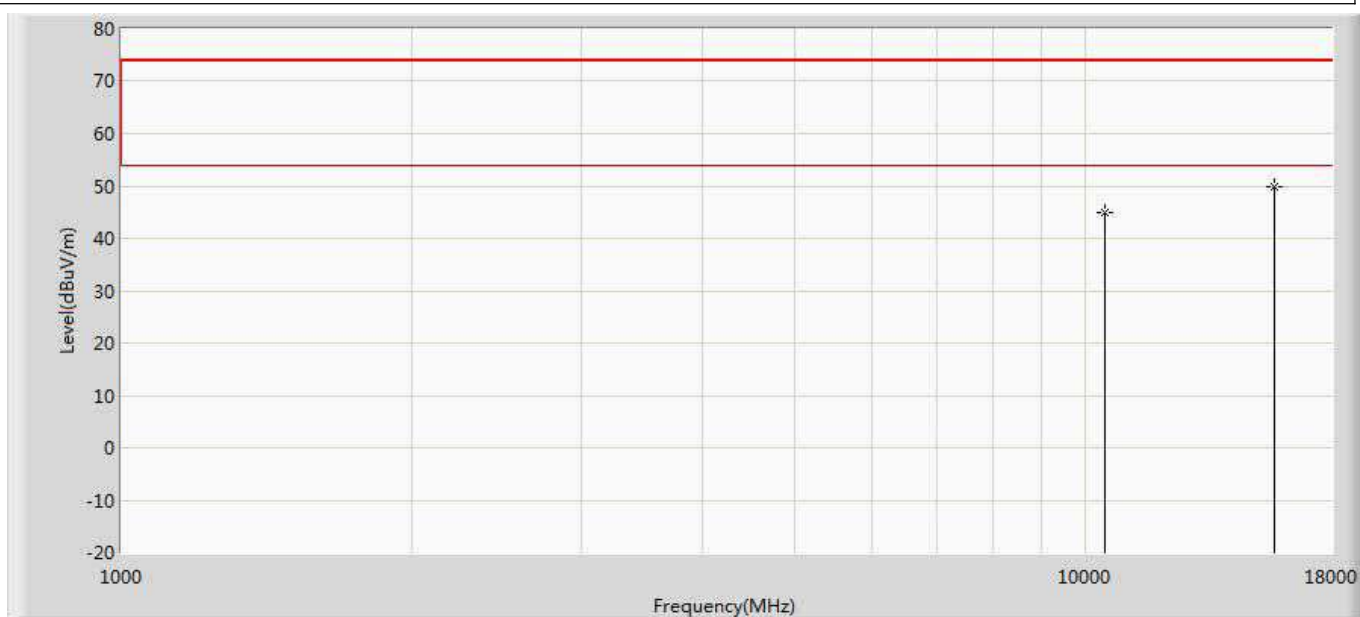


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10460.000	45.722	36.553	-28.278	74.000	9.169	0	0	PK
2	*	15690.000	51.433	34.200	-22.567	74.000	17.233	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 200
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 5230MHz by 11n(40MHz) SISO	

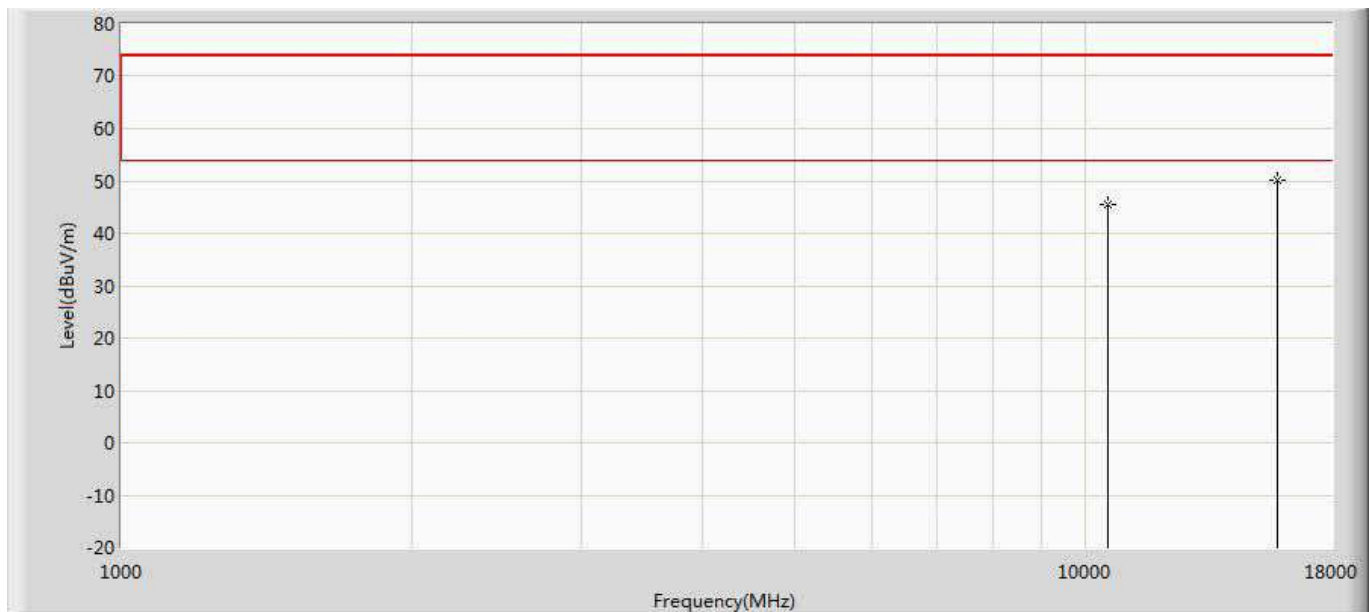


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10460.000	44.882	35.713	-29.118	74.000	9.169	0	0	PK
2	*	15690.000	49.901	32.668	-24.099	74.000	17.233	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 201
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 5270MHz by 11n(40MHz) SISO	

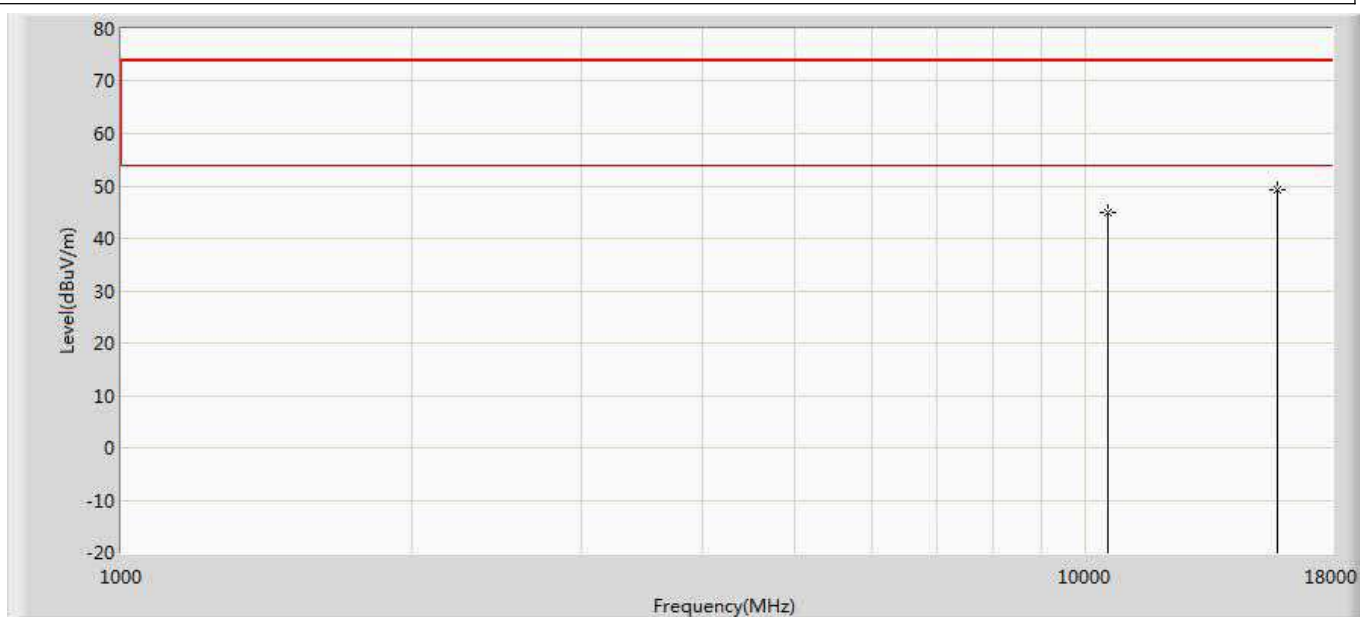


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10540.000	45.553	36.946	-28.447	74.000	8.607	0	0	PK
2	*	15810.000	50.102	33.289	-23.898	74.000	16.813	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 202
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 5270MHz by11n(40MHz) SISO	

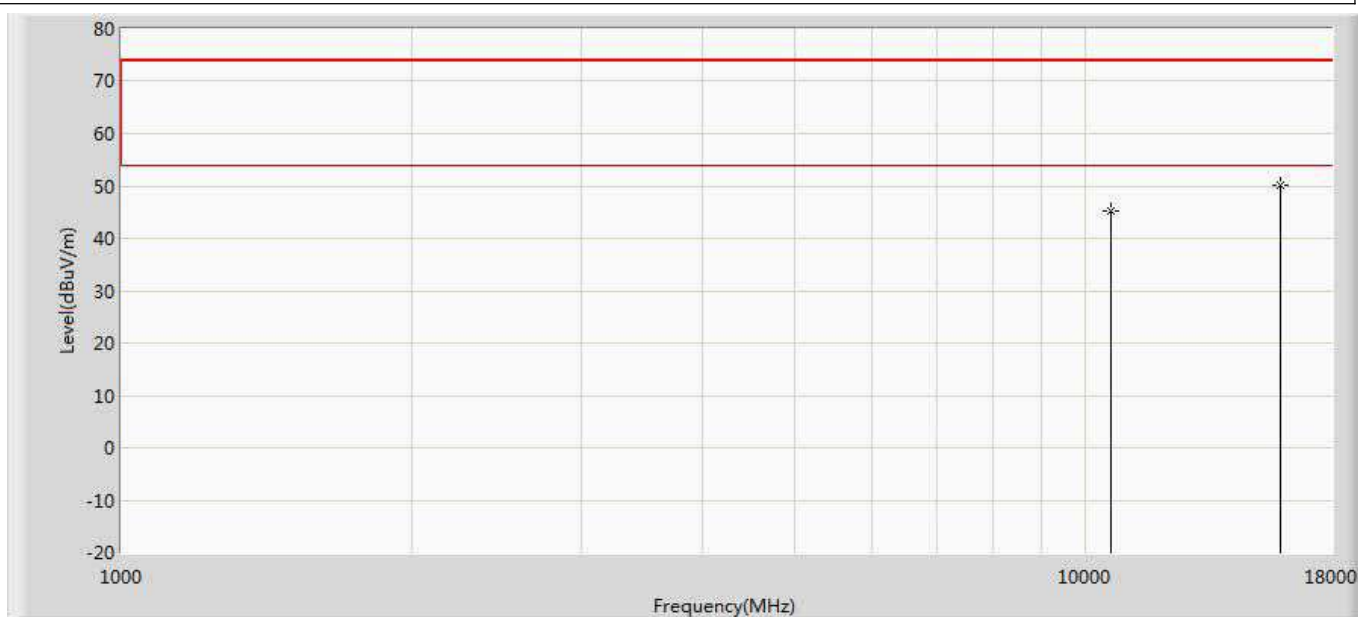


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10540.000	44.820	36.213	-29.180	74.000	8.607	0	0	PK
2	*	15810.000	49.238	32.425	-24.762	74.000	16.813	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 203
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 5310MHz by 11n(40MHz) SISO	

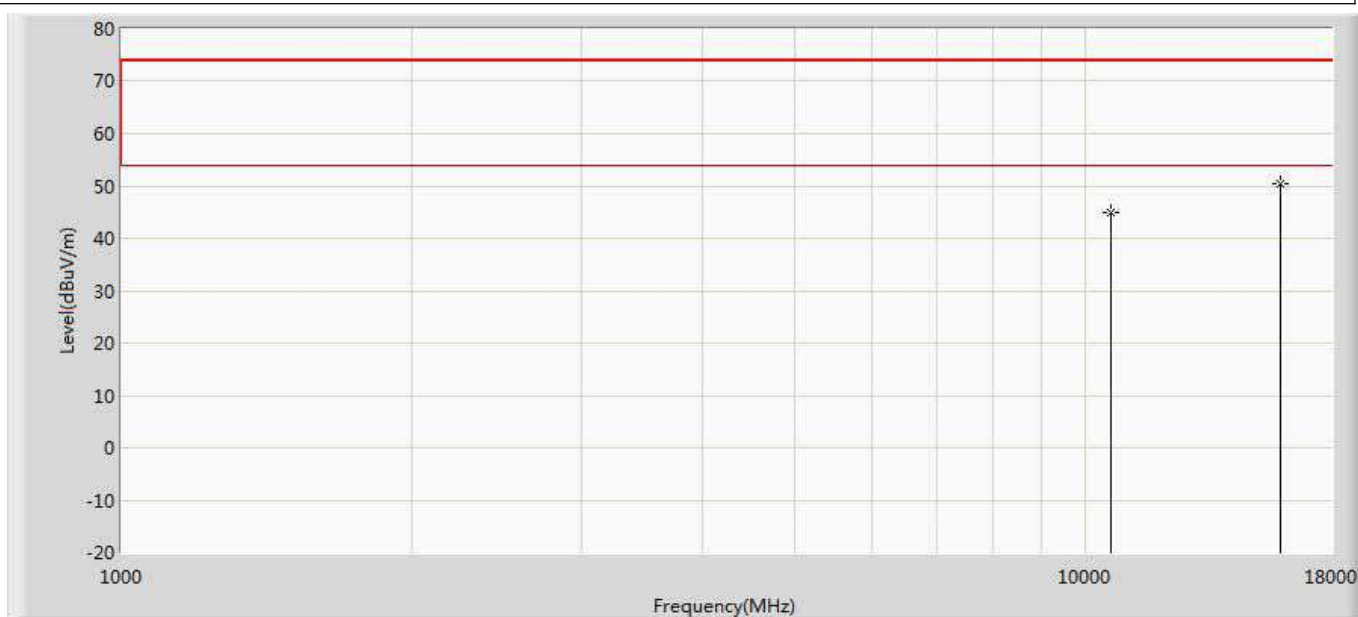


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10620.000	45.223	36.275	-28.777	74.000	8.948	0	0	PK
2	*	15930.000	50.220	33.006	-23.780	74.000	17.214	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 204
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 5310MHz by 11n(40MHz) SISO	

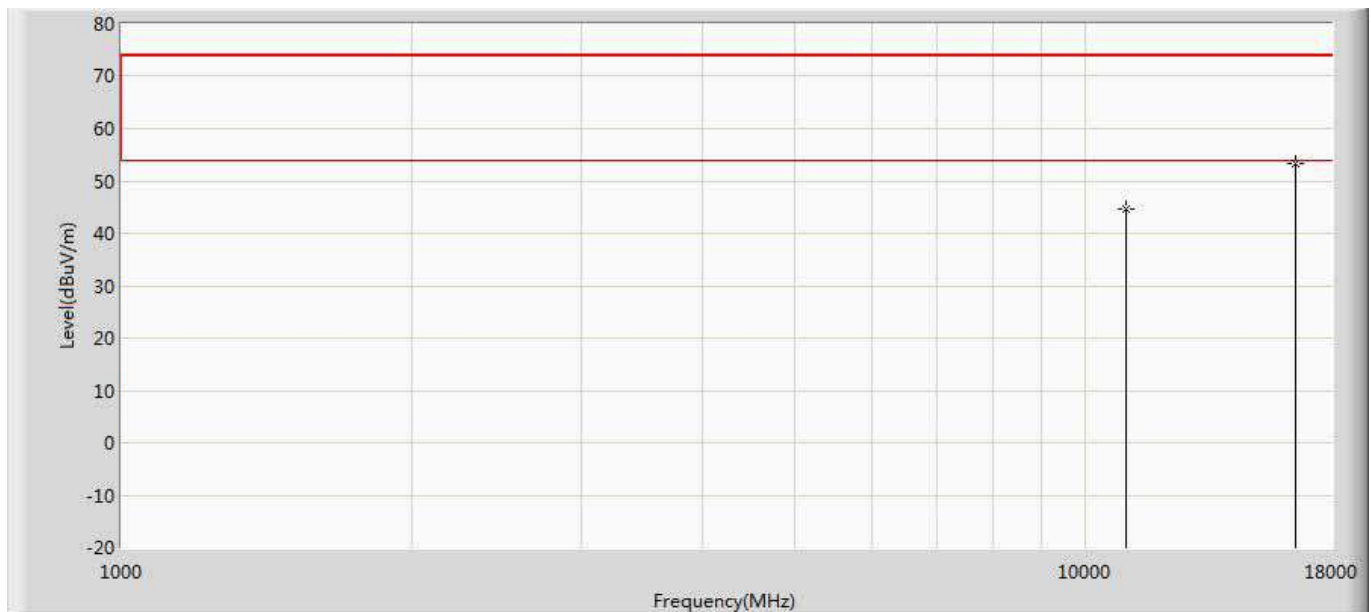


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10620.000	45.029	36.081	-28.971	74.000	8.948	0	0	PK
2	*	15930.000	50.305	33.091	-23.695	74.000	17.214	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 205
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:07
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 5510MHz by 11n(40MHz) SISO	

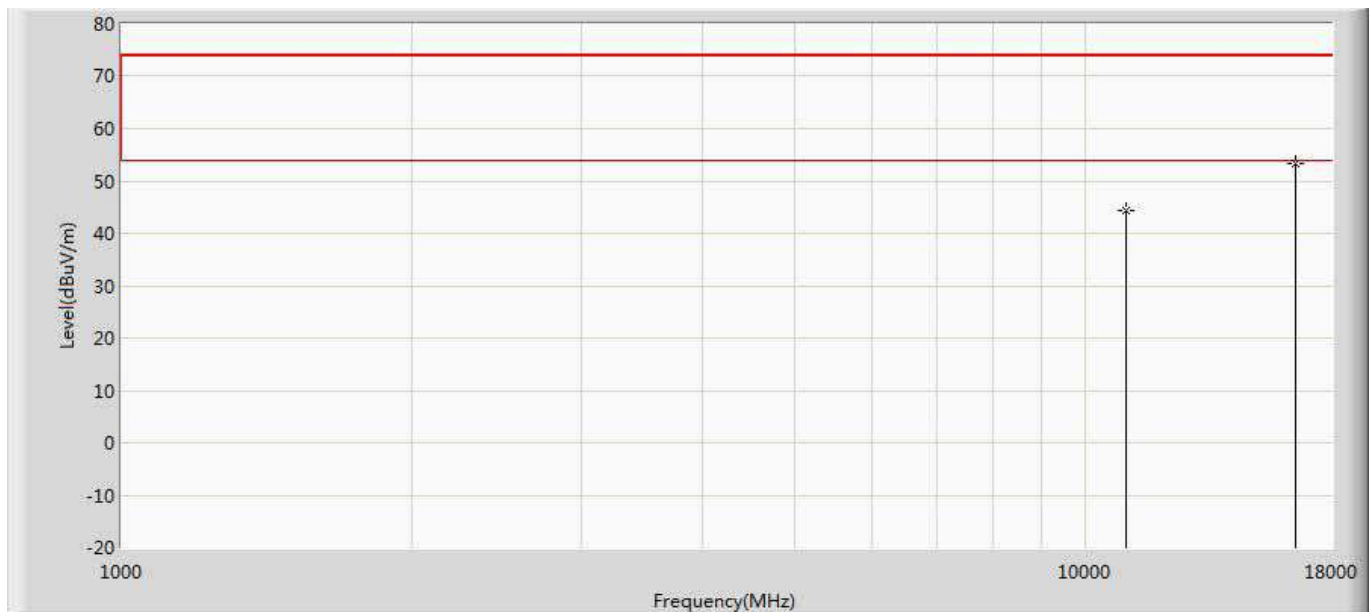


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11020.000	44.664	35.633	-29.336	74.000	9.031	0	0	PK
2	*	16530.000	53.259	34.277	-20.741	74.000	18.982	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 206
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:07
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 5510MHz by 11n(40MHz) SISO	

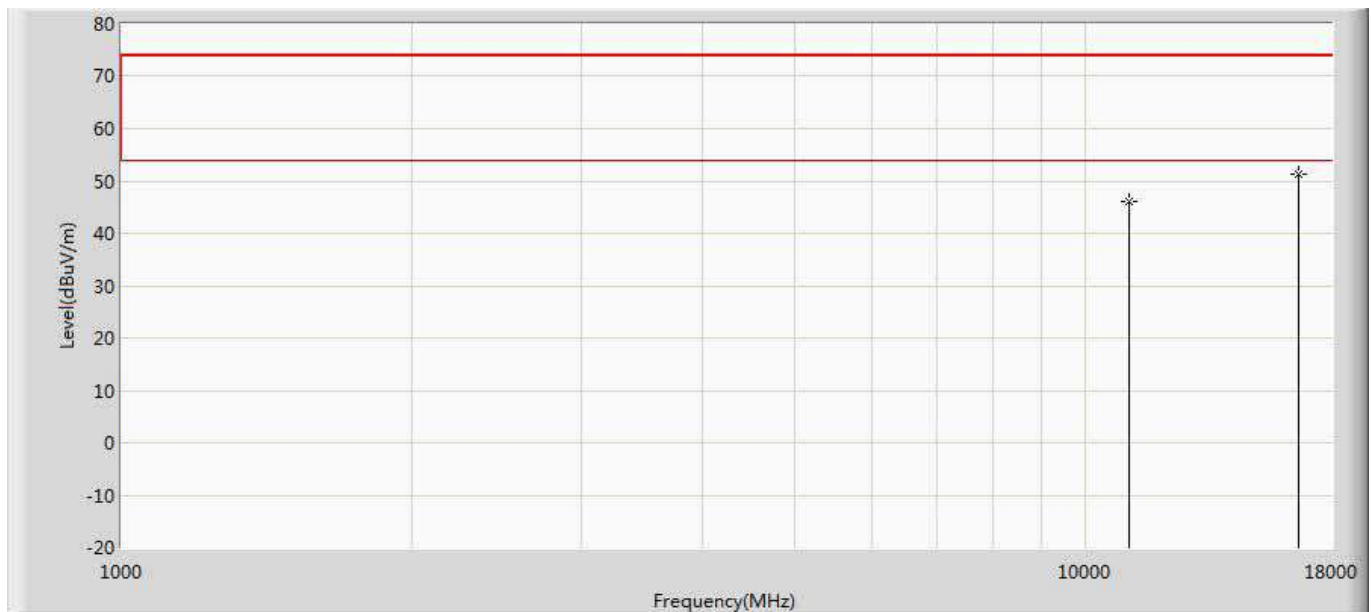


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11020.000	44.258	35.227	-29.742	74.000	9.031	0	0	PK
2	*	16530.000	53.309	34.327	-20.691	74.000	18.982	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 207
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:07
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 5550MHz by 11n(40MHz) SISO	

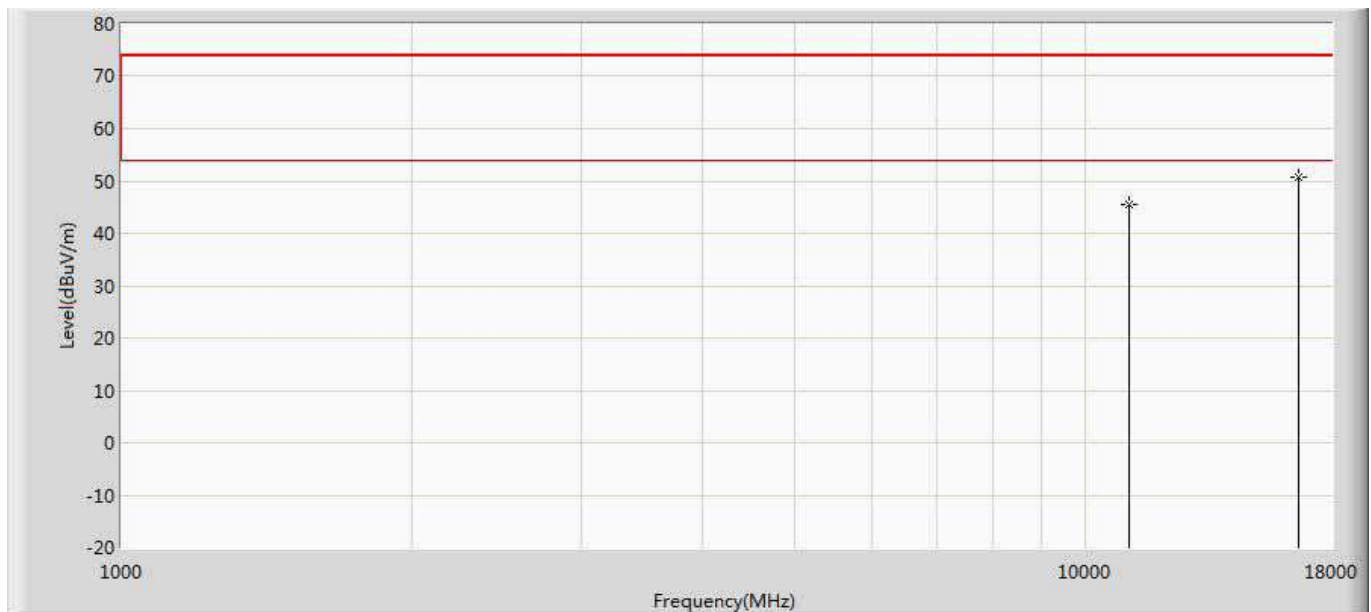


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11100.000	46.179	36.315	-27.821	74.000	9.864	0	0	PK
2	*	16650.000	51.176	33.852	-22.824	74.000	17.325	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 208
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:07
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 5550MHz by 11n(40MHz) SISO	

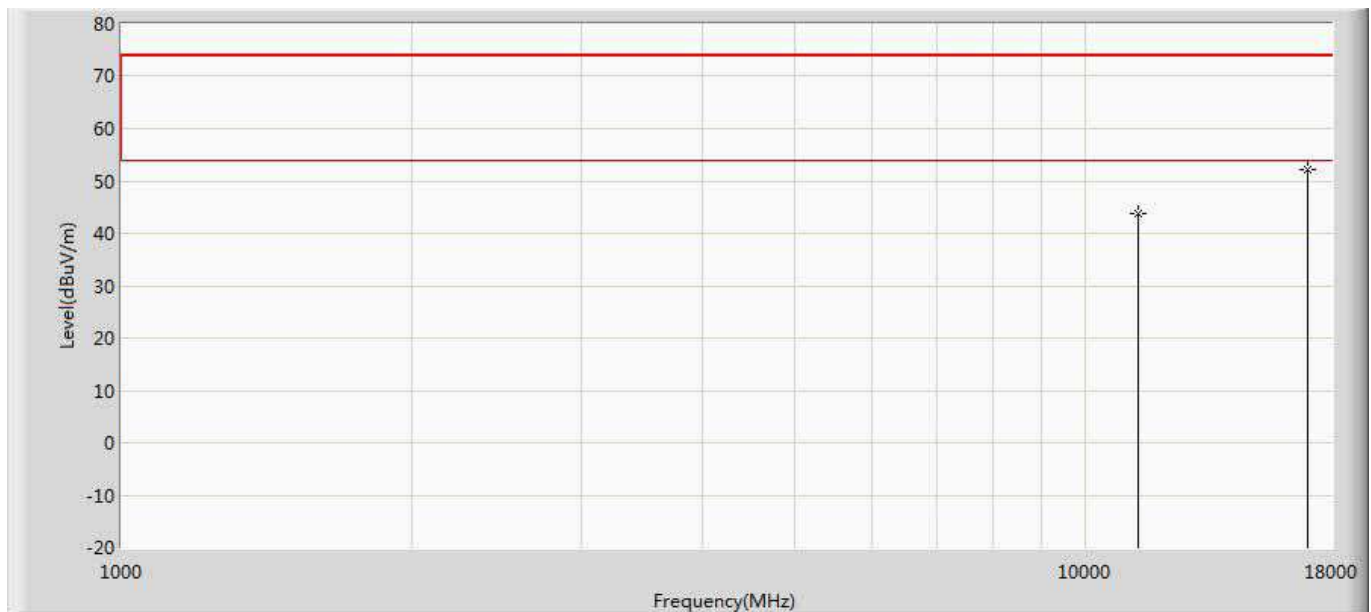


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11100.000	45.455	35.591	-28.545	74.000	9.864	0	0	PK
2	*	16650.000	50.629	33.305	-23.371	74.000	17.325	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 209
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:07
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 5670MHz by 11n(40MHz) SISO	

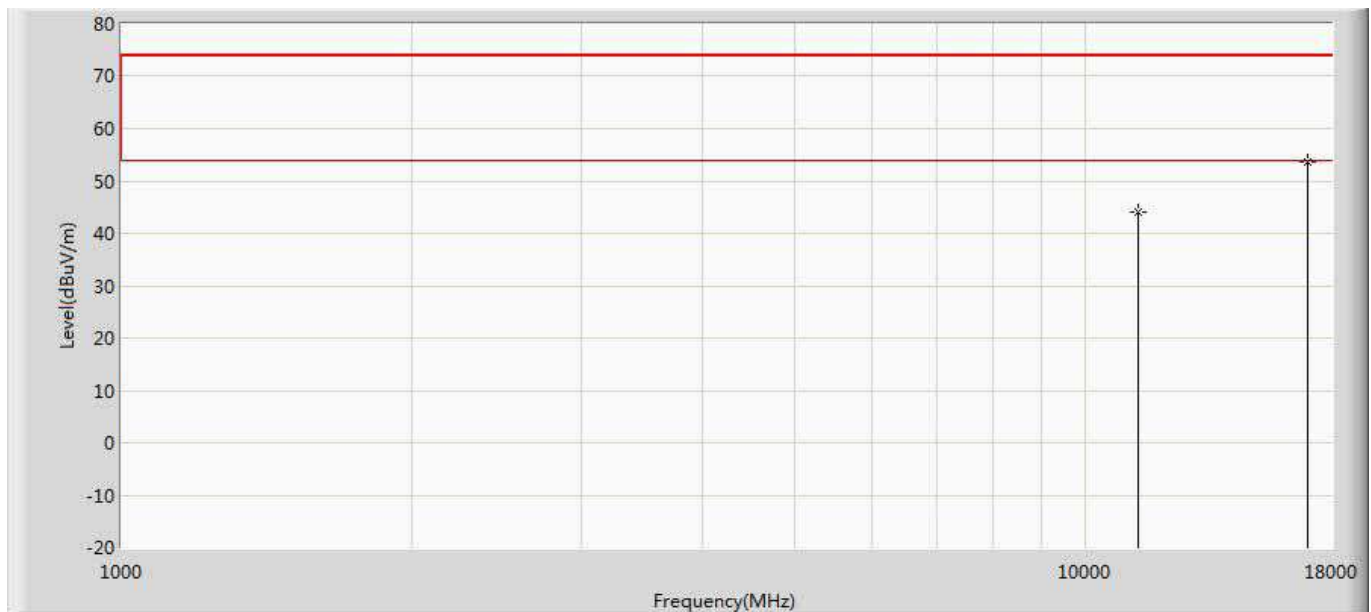


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11340.000	43.736	34.538	-30.264	74.000	9.197	0	0	PK
2	*	17010.000	52.316	33.360	-21.684	74.000	18.956	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 210
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:07
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 5670MHz by 11n(40MHz) SISO	

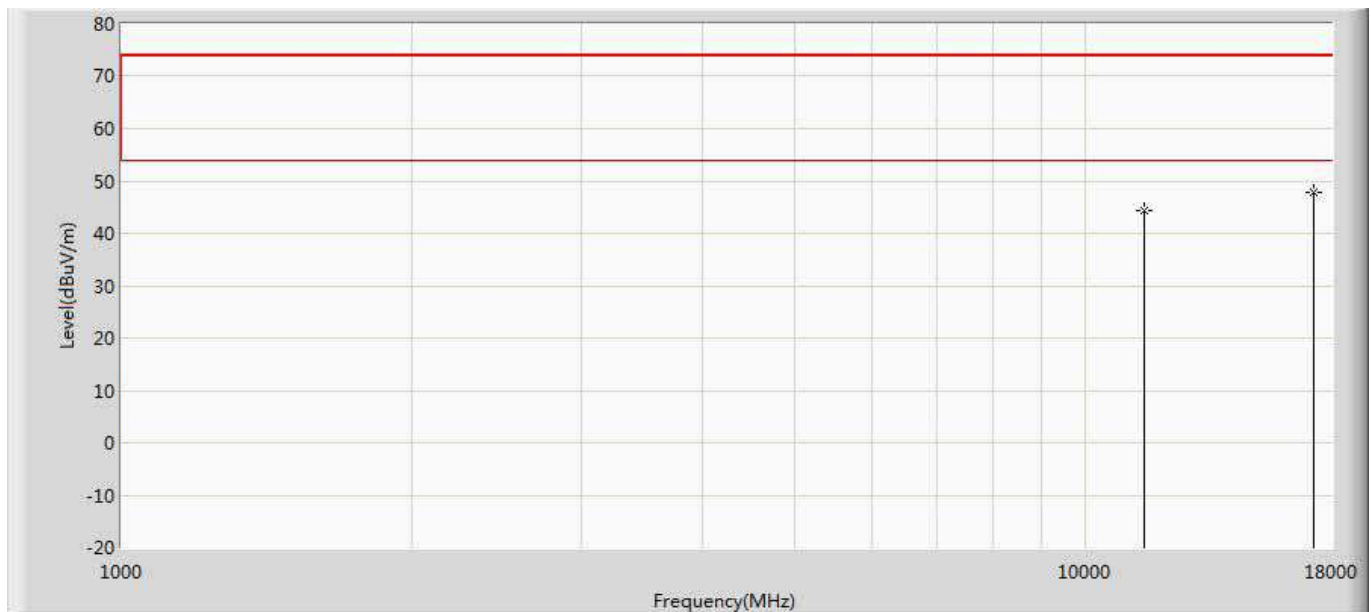


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11340.000	43.936	34.738	-30.064	74.000	9.197	0	0	PK
2	*	17010.000	53.699	34.743	-20.301	74.000	18.956	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 211
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:07
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 5755MHz by 11n(40MHz) SISO	

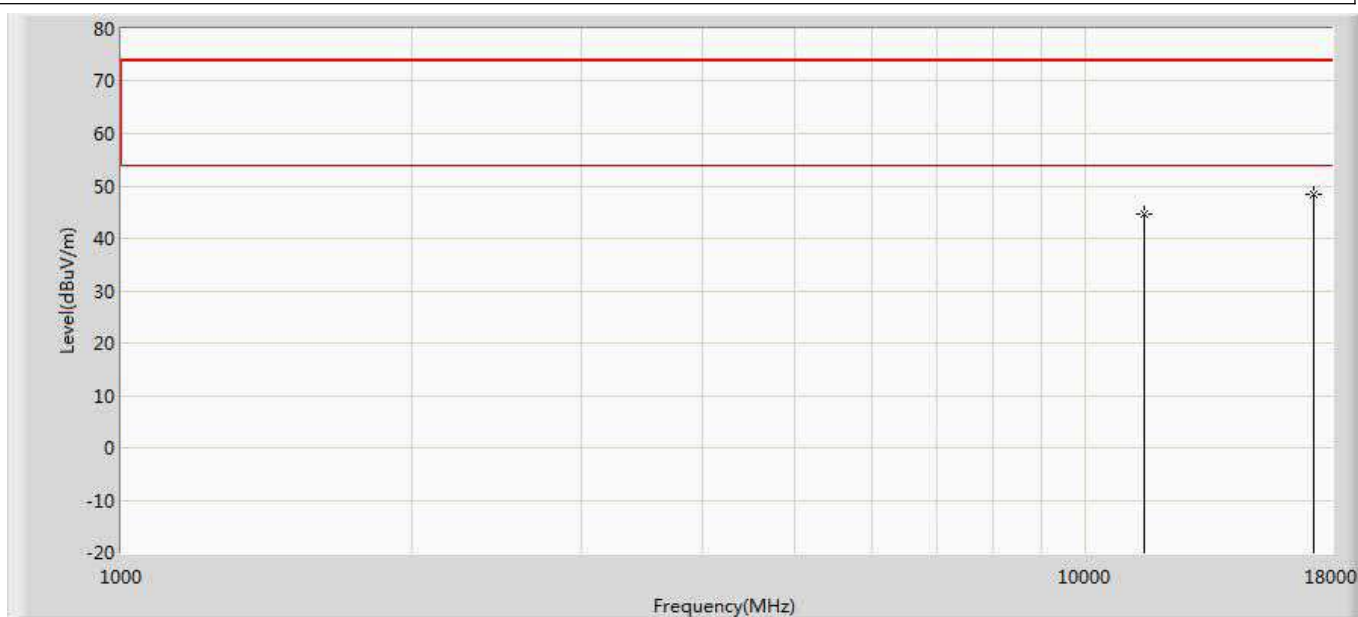


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11510.000	44.410	35.137	-29.590	74.000	9.272	0	0	PK
2	*	17265.000	47.694	29.666	-26.306	74.000	18.029	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 212
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 5755MHz by 11n(40MHz) SISO	

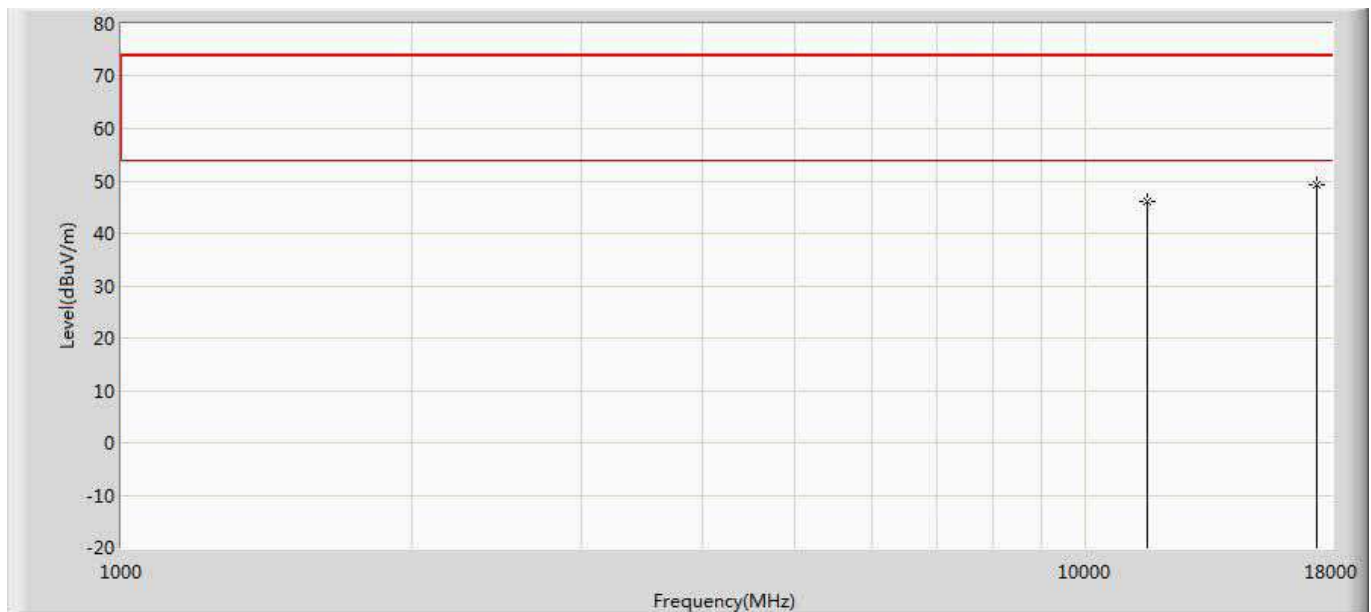


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11510.000	44.648	35.375	-29.352	74.000	9.272	0	0	PK
2	*	17265.000	48.272	30.244	-25.728	74.000	18.029	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 213
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 5795MHz by 11n(40MHz) SISO	

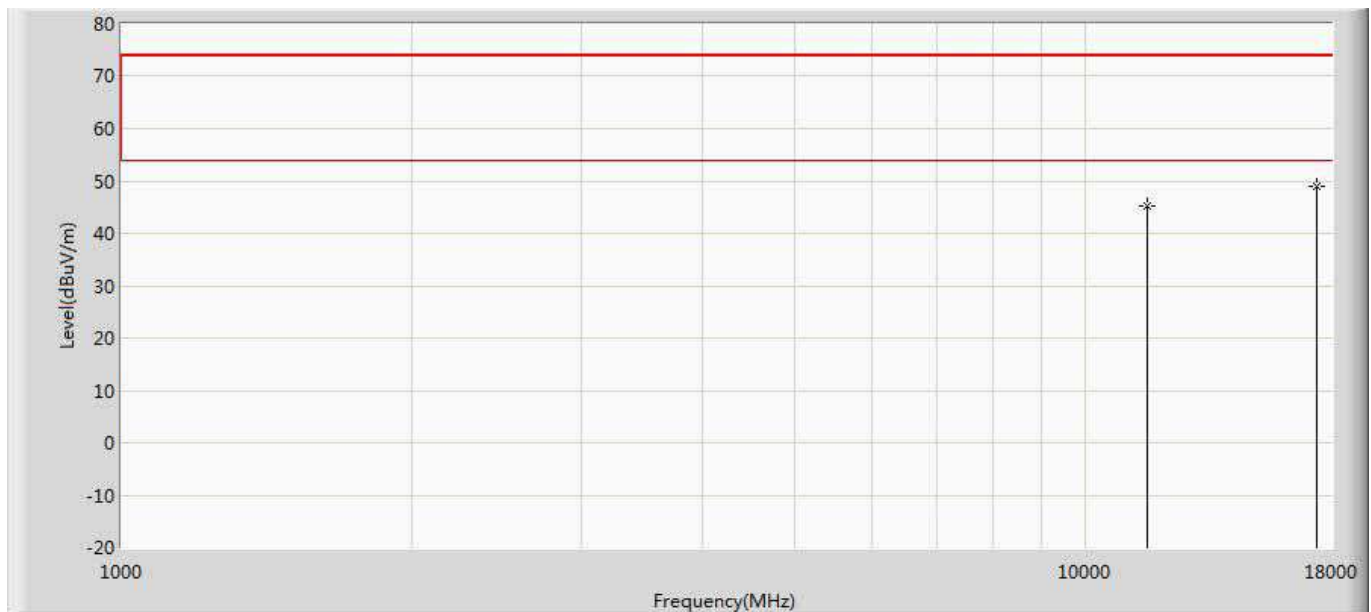


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11590.000	45.989	35.934	-28.011	74.000	10.055	0	0	PK
2	*	17385.000	49.261	32.739	-24.739	74.000	16.522	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 214
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 5795MHz by 11n(40MHz) SISO	

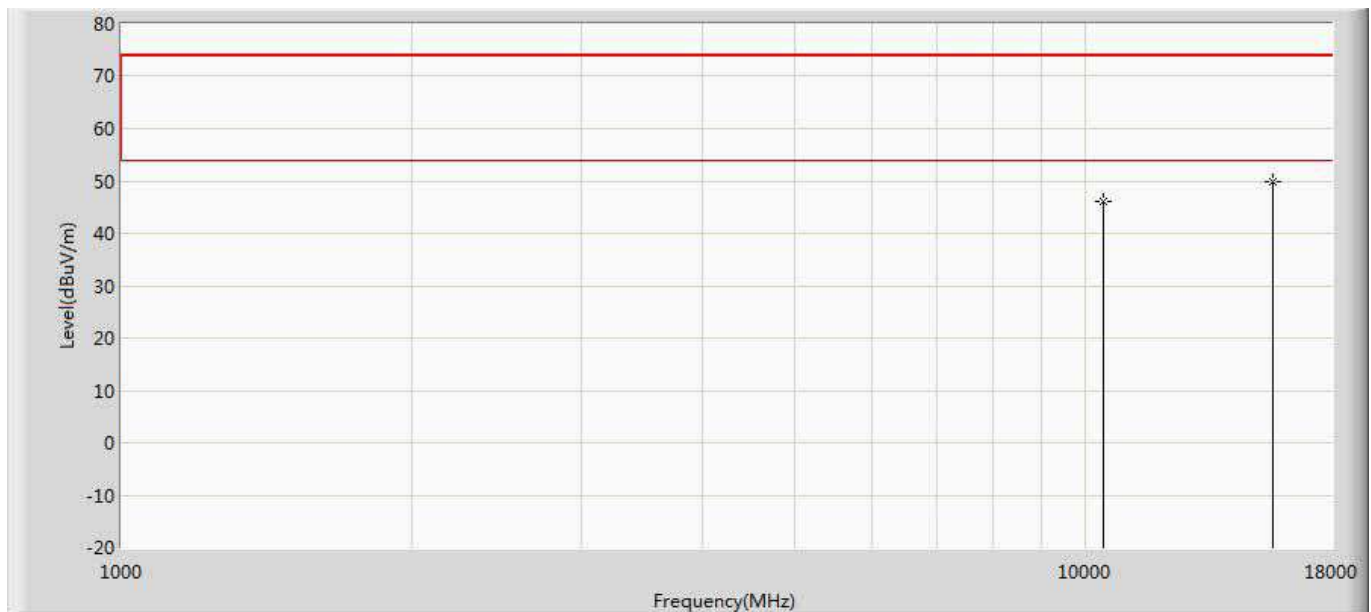


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11590.000	45.319	35.264	-28.681	74.000	10.055	0	0	PK
2	*	17385.000	48.884	32.362	-25.116	74.000	16.522	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 215
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 6: Transmit at 5210MHz by 11ac(80MHz) SISO	

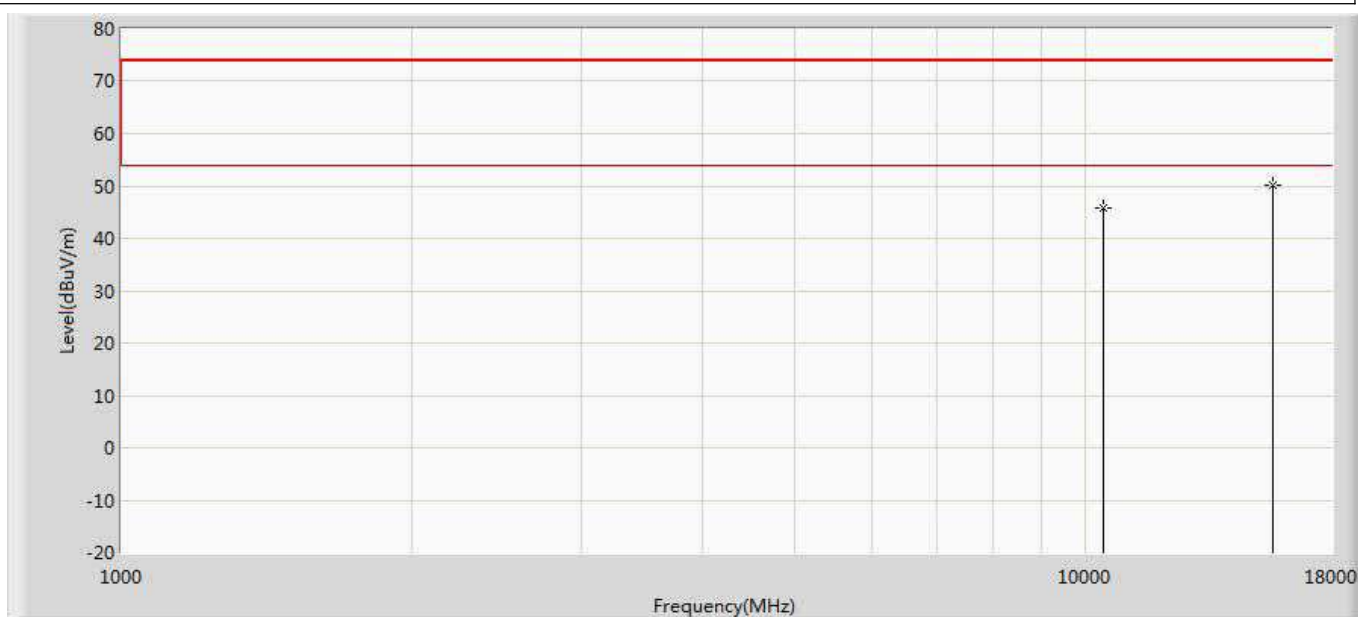


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10420.000	46.224	37.085	-27.776	74.000	9.139	0	0	PK
2	*	15630.000	49.986	33.606	-24.014	74.000	16.380	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 216
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 6: Transmit at 5210MHz by 11ac(80MHz) SISO	

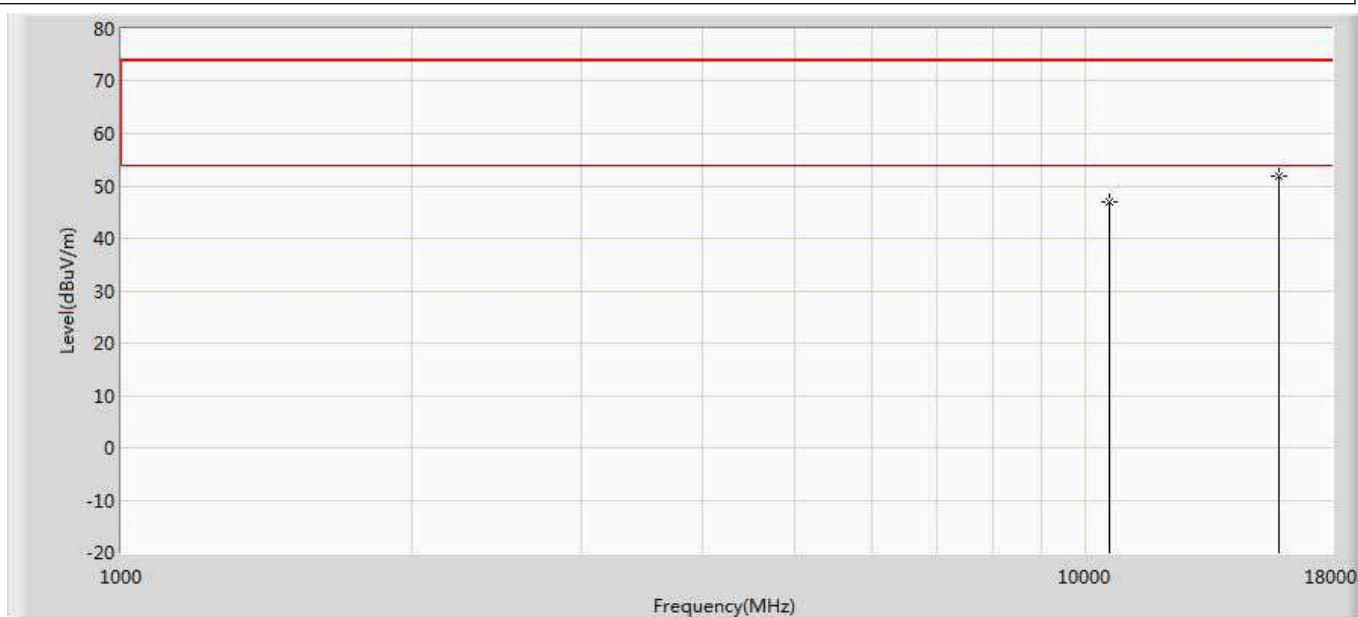


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10420.000	45.719	36.580	-28.281	74.000	9.139	0	0	PK
2	*	15630.000	50.275	33.895	-23.725	74.000	16.380	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 217
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 6: Transmit at 5290MHz by 11ac(80MHz) SISO	

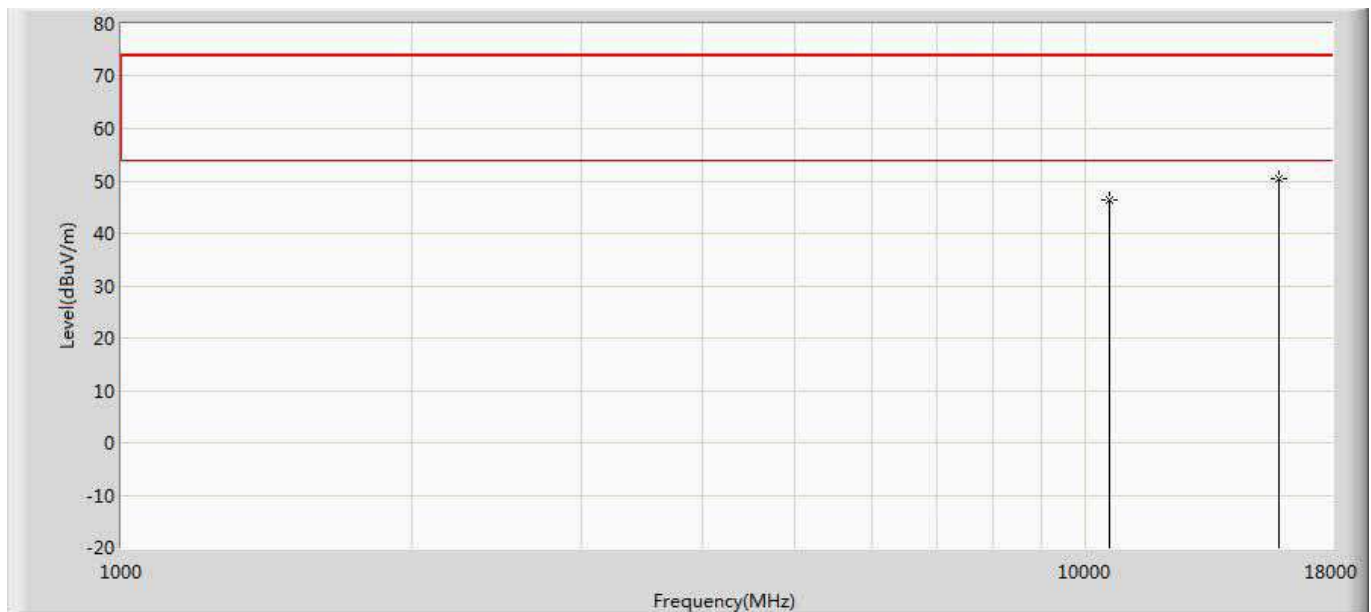


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10580.000	46.824	37.026	-27.176	74.000	9.798	0	0	PK
2	*	15870.000	51.923	33.994	-22.077	74.000	17.929	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 218
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 6: Transmit at 5290MHz by 11ac(80MHz) SISO	

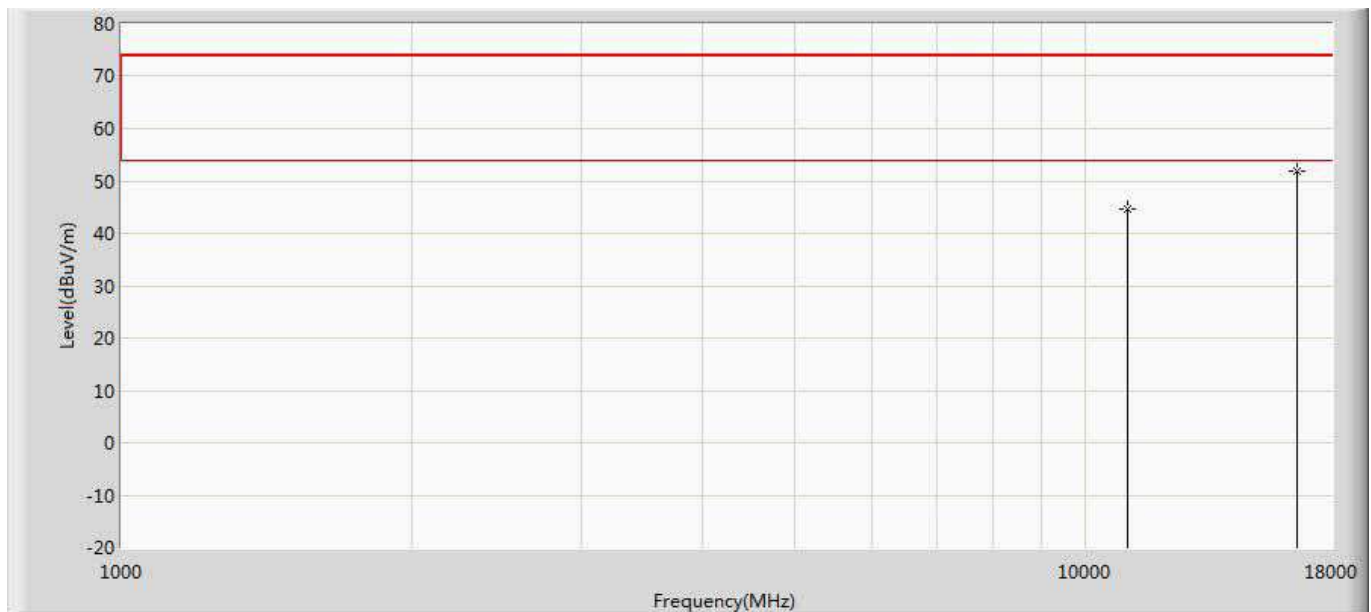


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10580.000	46.337	36.539	-27.663	74.000	9.798	0	0	PK
2	*	15870.000	50.503	32.574	-23.497	74.000	17.929	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 219
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 6: Transmit at 5530MHz by 11ac(80MHz) SISO	

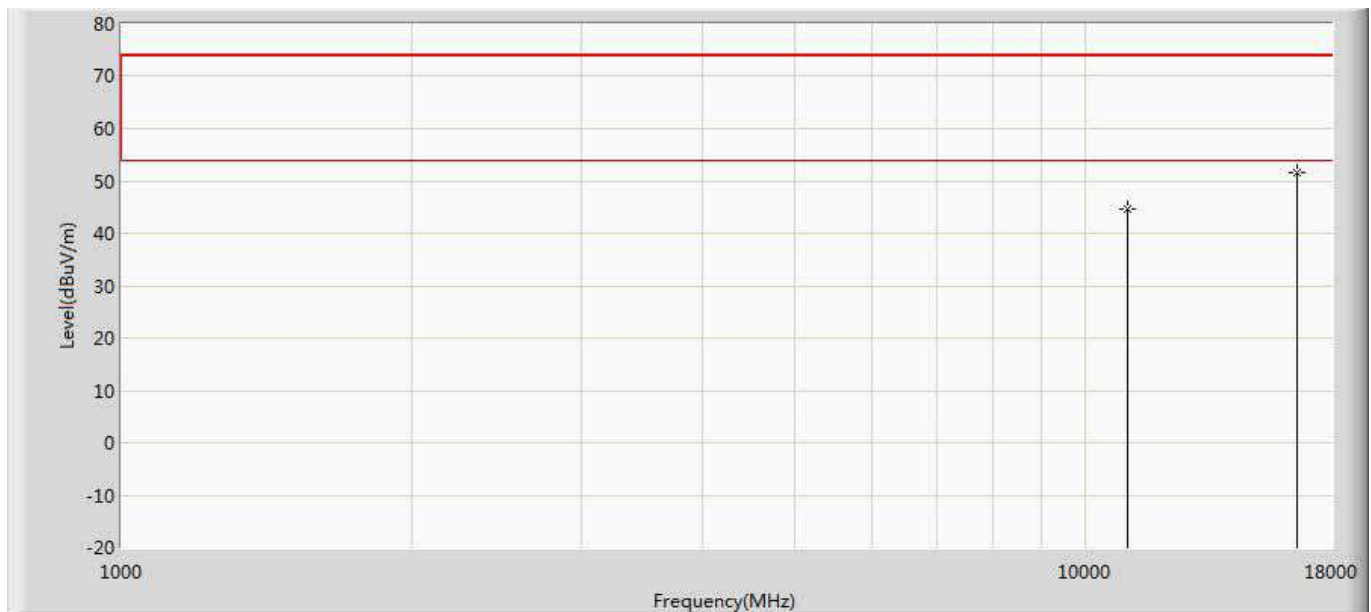


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11060.000	44.716	35.085	-29.284	74.000	9.631	0	0	PK
2	*	16590.000	52.008	34.229	-21.992	74.000	17.779	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 220
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 6: Transmit at 5530MHz by 11ac(80MHz) SISO	

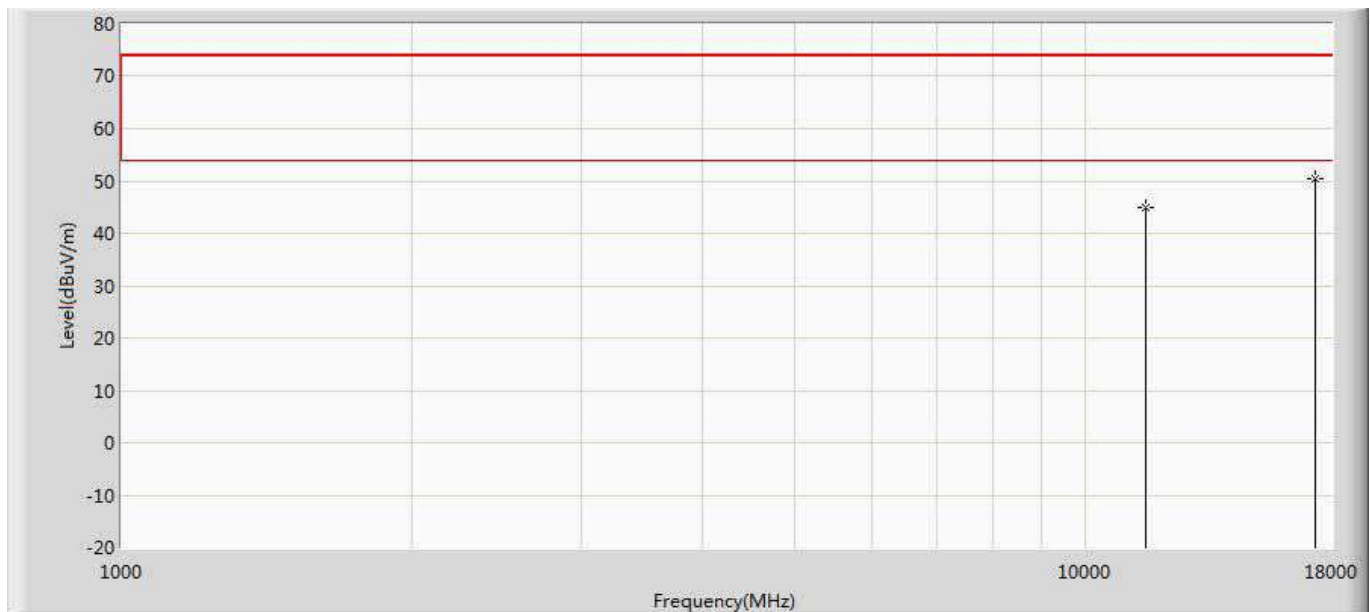


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11060.000	44.724	35.093	-29.276	74.000	9.631	0	0	PK
2	*	16590.000	51.450	33.671	-22.550	74.000	17.779	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 221
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 6: Transmit at 5775MHz by 11ac(80MHz) SISO	

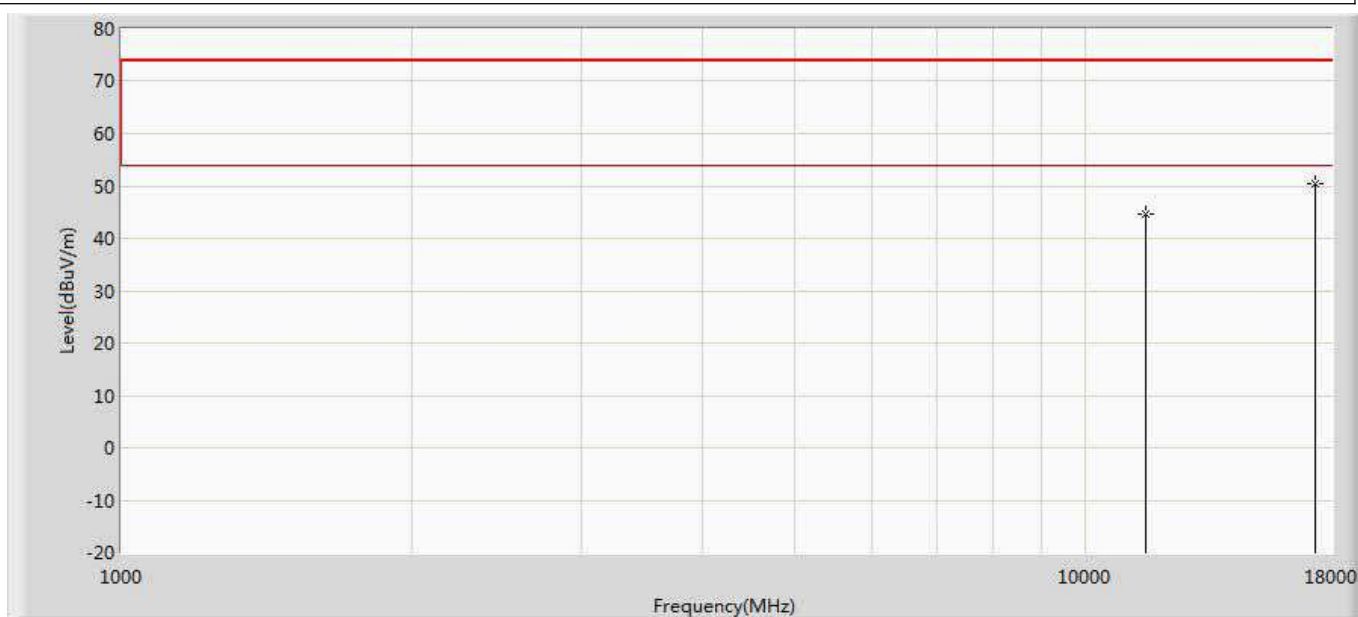


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11550.000	44.892	35.218	-29.108	74.000	9.674	0	0	PK
2	*	17325.000	50.344	31.311	-23.656	74.000	19.033	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 222
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 6: Transmit at 5775MHz by 11ac(80MHz) SISO	

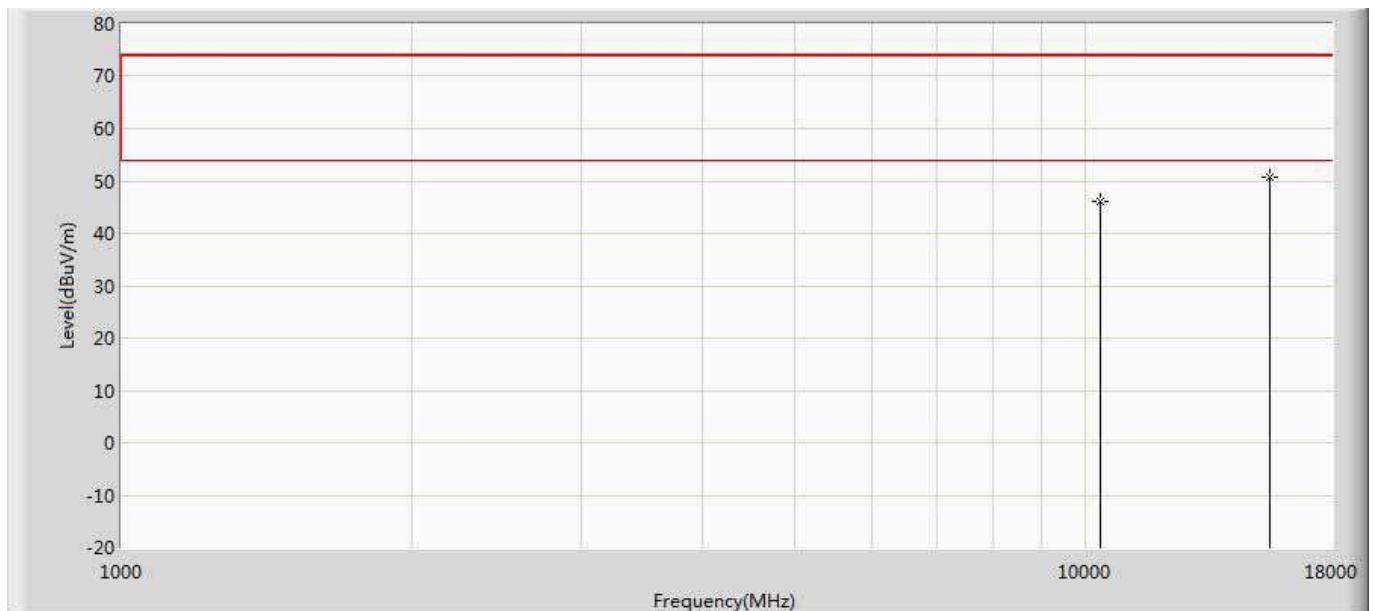


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11550.000	44.737	35.063	-29.263	74.000	9.674	0	0	PK
2	*	17325.000	50.316	31.283	-23.684	74.000	19.033	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 223
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5180MHz by 11a MIMO	

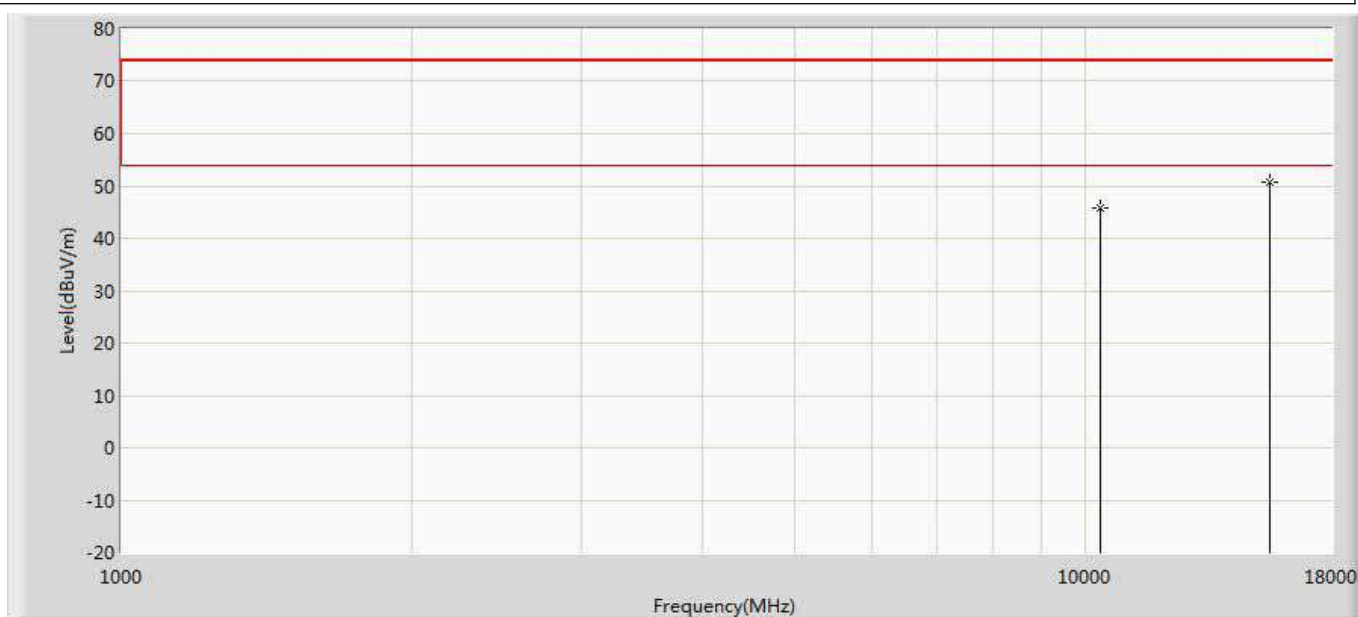


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10360.000	46.196	37.240	-27.804	74.000	8.957	0	0	PK
2	*	15540.000	50.866	34.295	-23.134	74.000	16.571	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 224
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5180MHz by 11a MIMO	

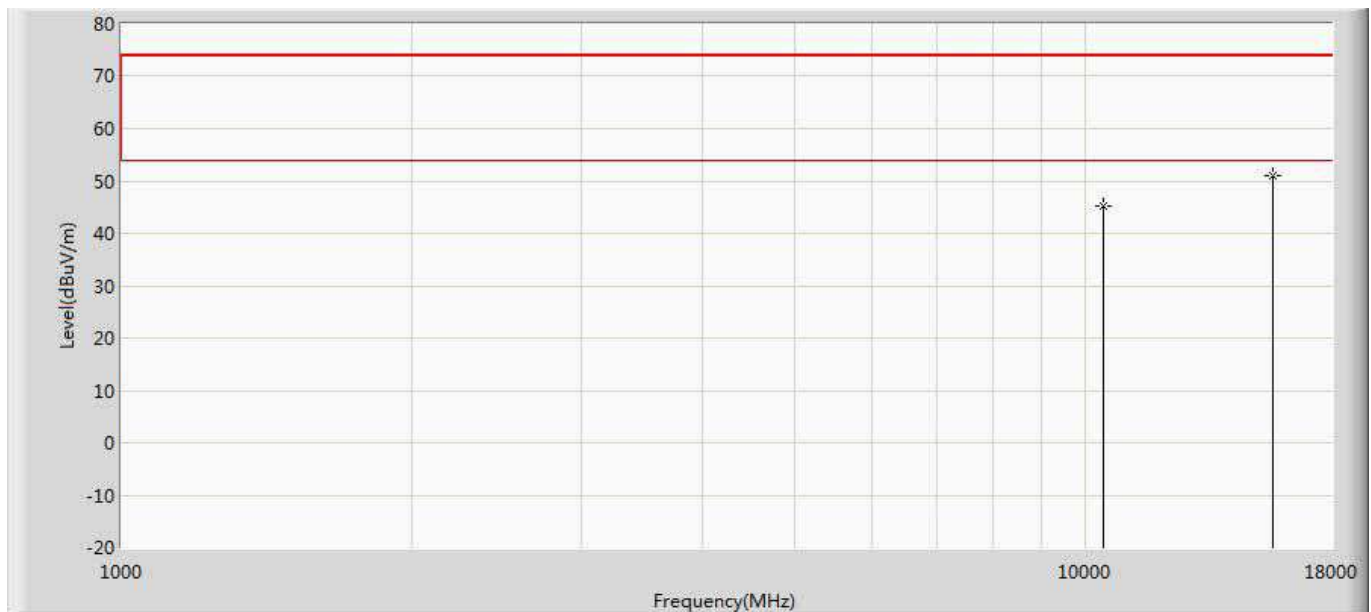


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10360.000	45.804	36.848	-28.196	74.000	8.957	0	0	PK
2	*	15540.000	50.781	34.210	-23.219	74.000	16.571	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 225
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5220MHz by 11a MIMO	

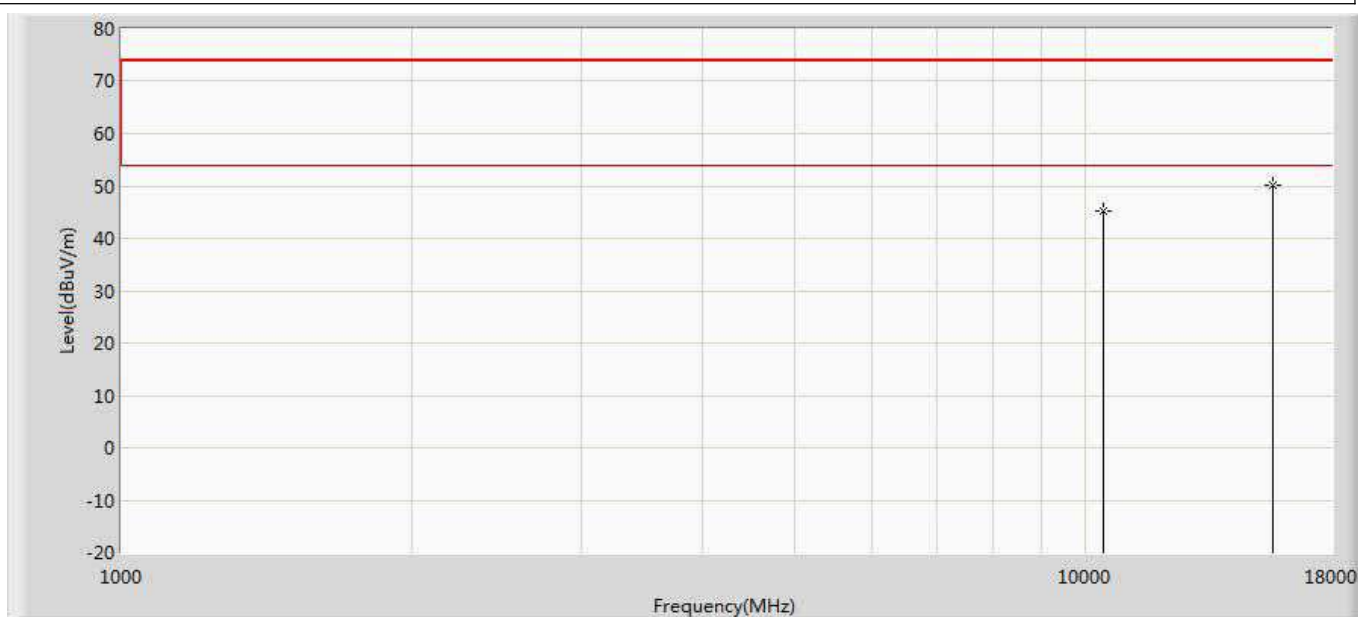


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10440.000	45.228	36.431	-28.772	74.000	8.797	0	0	PK
2	*	15660.000	50.981	33.804	-23.019	74.000	17.177	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 226
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5220MHz by 11a MIMO	

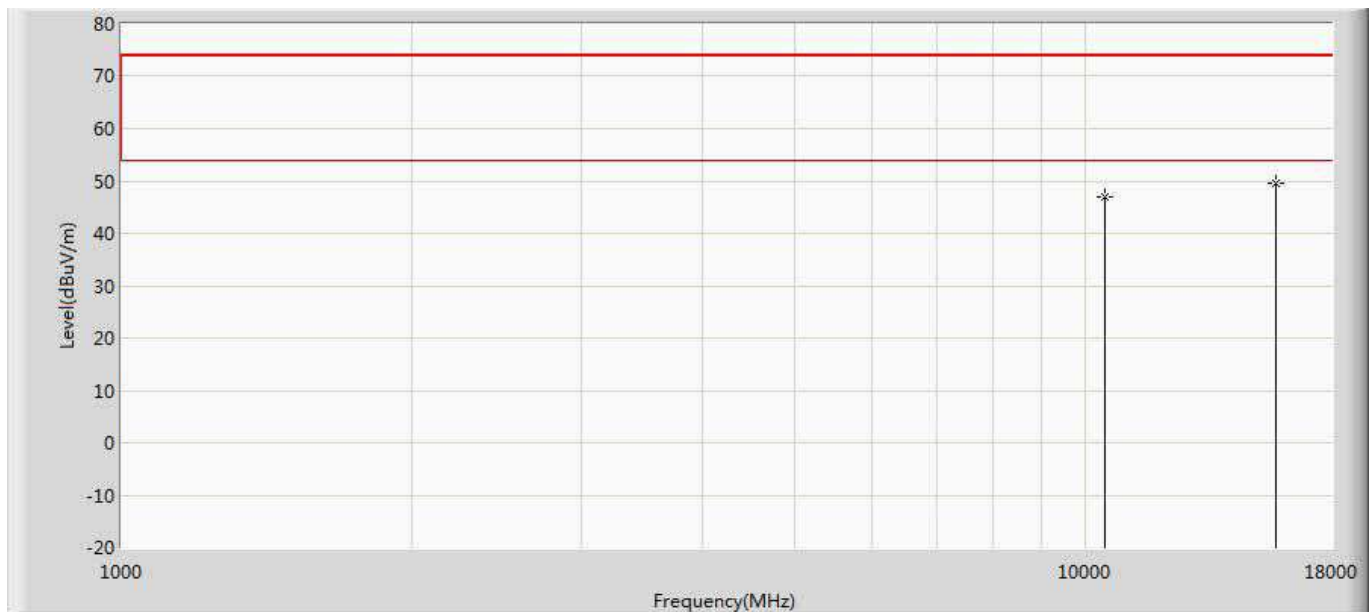


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10440.000	45.187	36.390	-28.813	74.000	8.797	0	0	PK
2	*	15660.000	50.264	33.087	-23.736	74.000	17.177	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 227
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5240MHz by 11a MIMO	

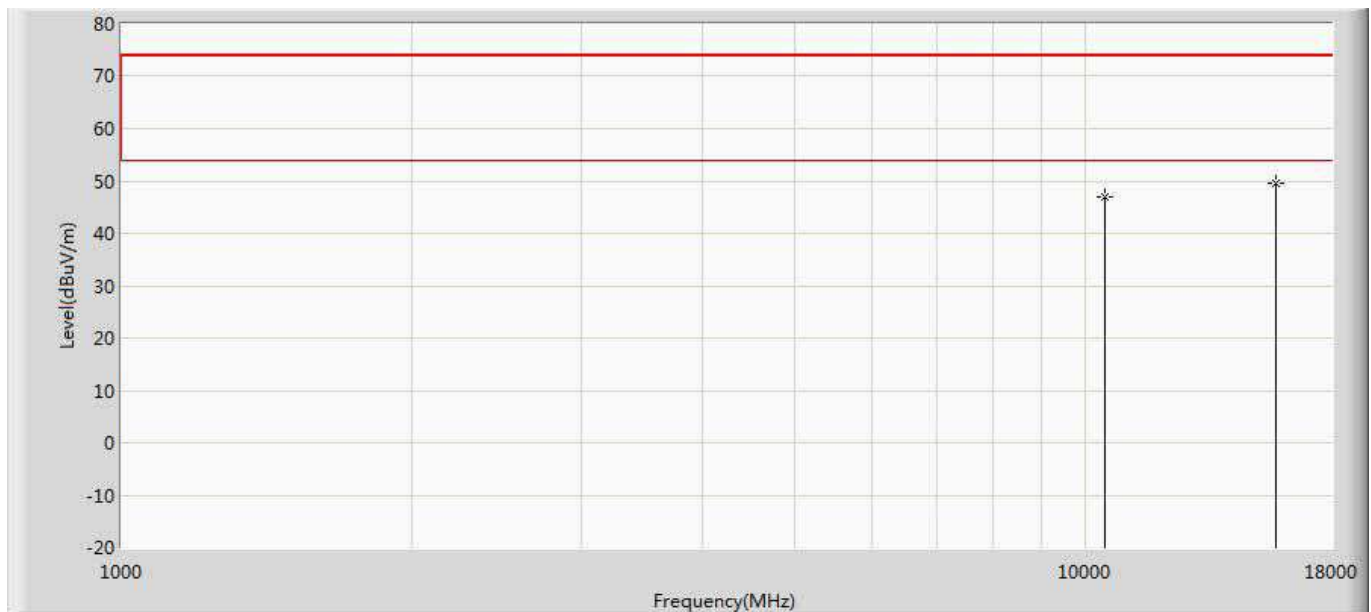


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10480.000	46.981	36.766	-27.019	74.000	10.215	0	0	PK
2	*	15720.000	49.664	33.607	-24.336	74.000	16.058	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 228
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5240MHz by 11a MIMO	

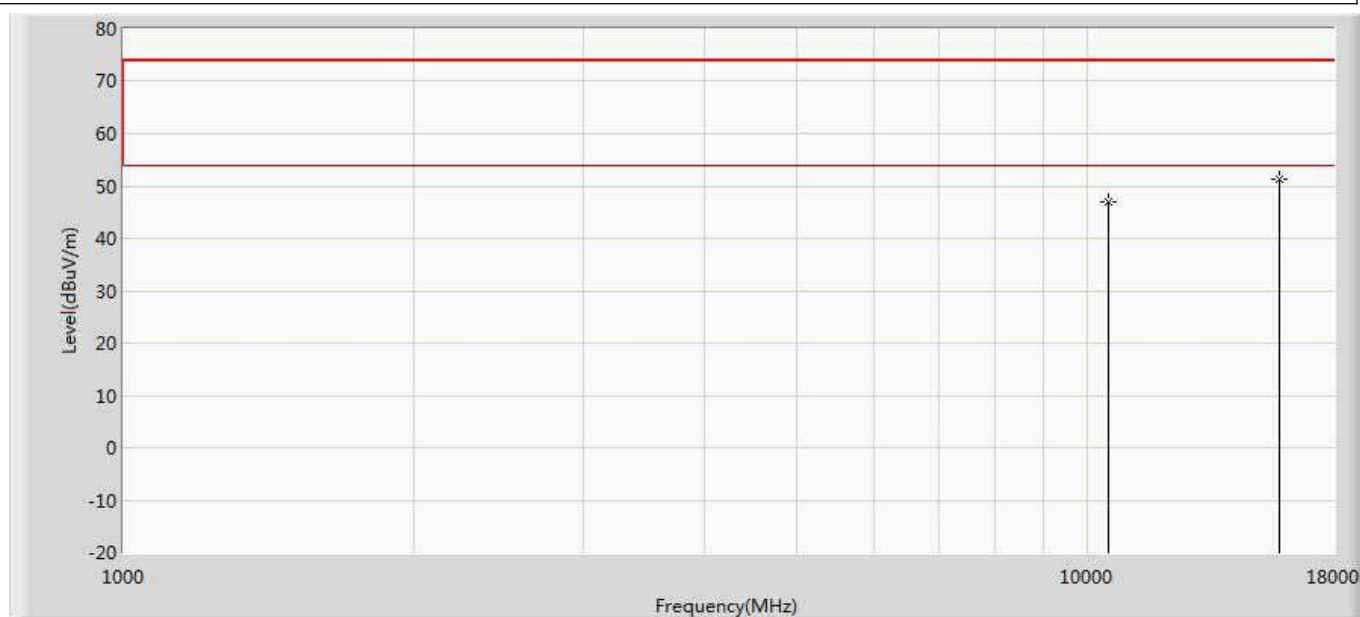


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10480.000	47.036	36.821	-26.964	74.000	10.215	0	0	PK
2	*	15720.000	49.556	33.499	-24.444	74.000	16.058	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 229
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5260MHz by 11a MIMO	

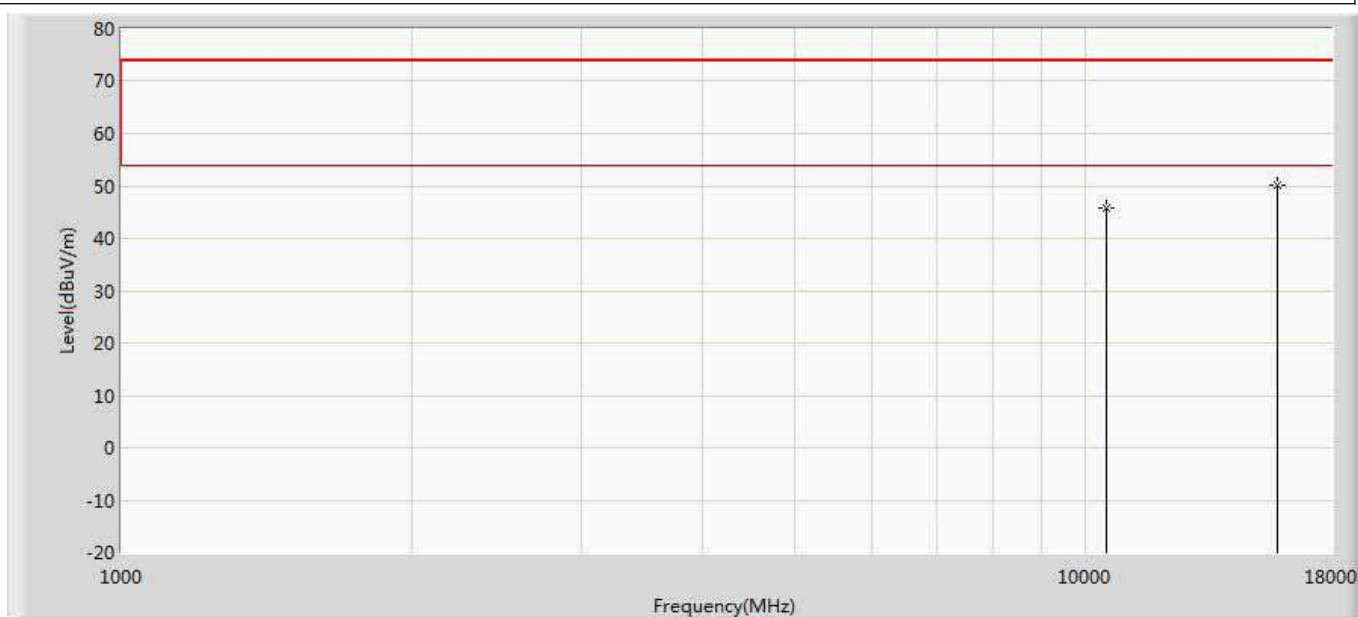


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10520.000	46.812	38.111	-27.188	74.000	8.701	0	0	PK
2	*	15780.000	51.205	33.832	-22.795	74.000	17.373	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 230
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5260MHz by 11a MIMO	

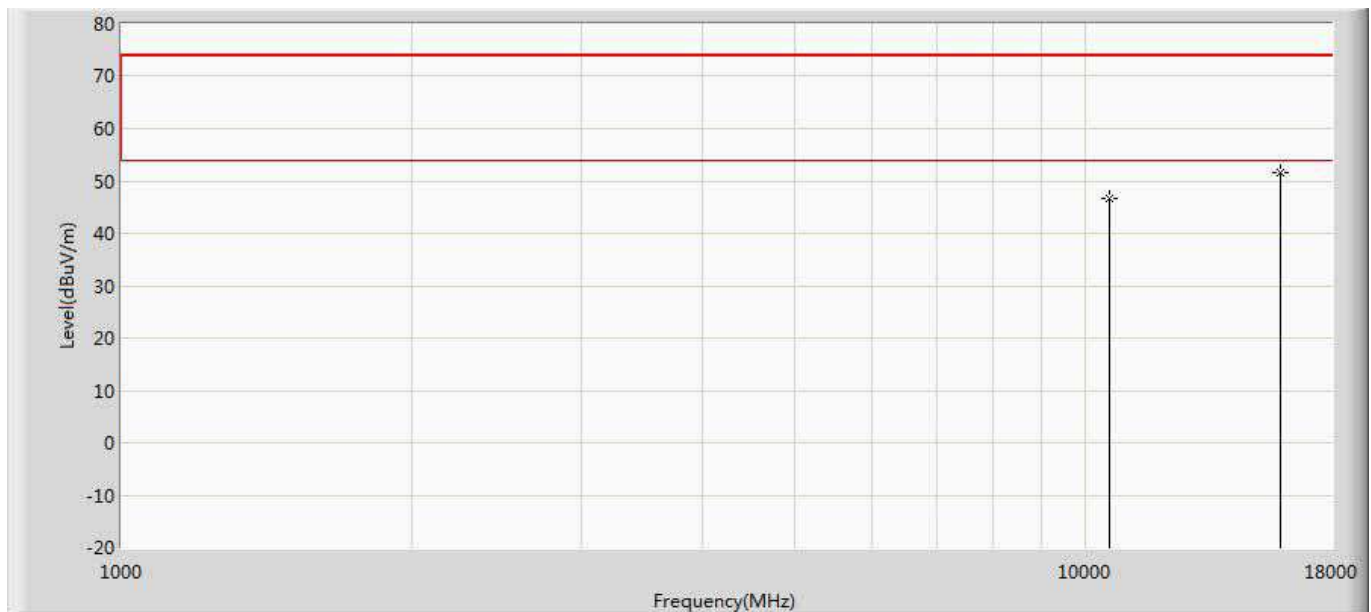


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10520.000	45.876	37.175	-28.124	74.000	8.701	0	0	PK
2	*	15780.000	50.267	32.894	-23.733	74.000	17.373	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 231
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5300MHz by 11a MIMO	

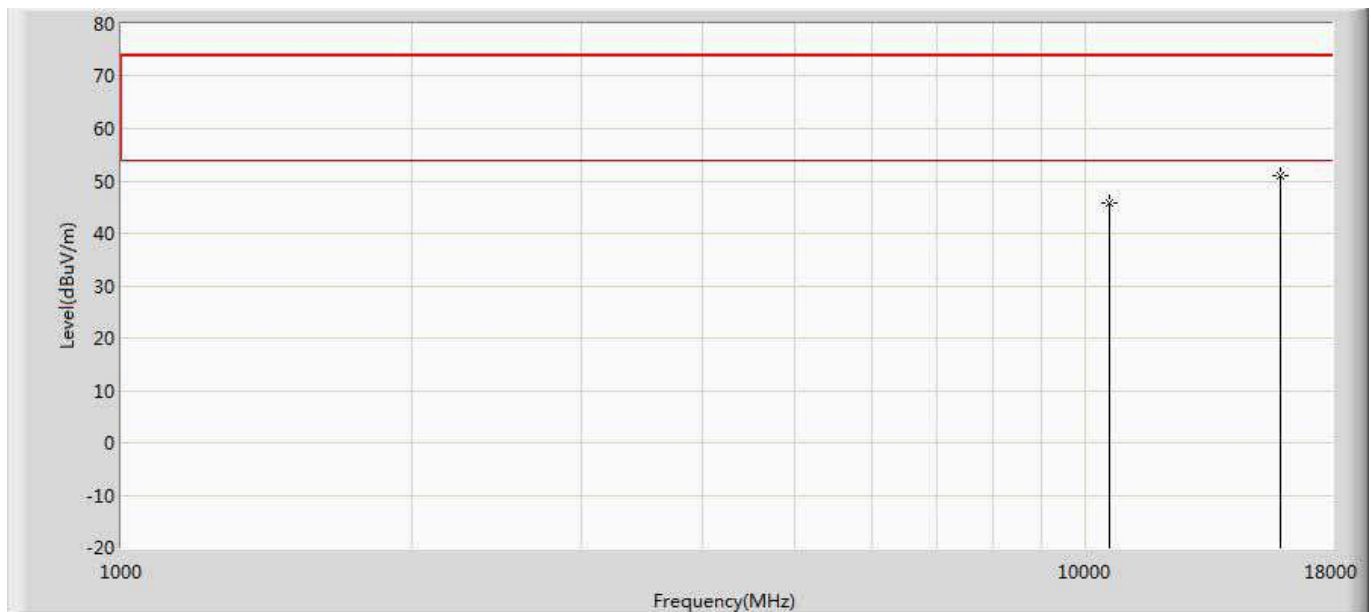


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10600.000	46.602	37.248	-27.398	74.000	9.354	0	0	PK
2	*	15900.000	51.576	34.002	-22.424	74.000	17.574	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 232
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5300MHz by 11a MIMO	

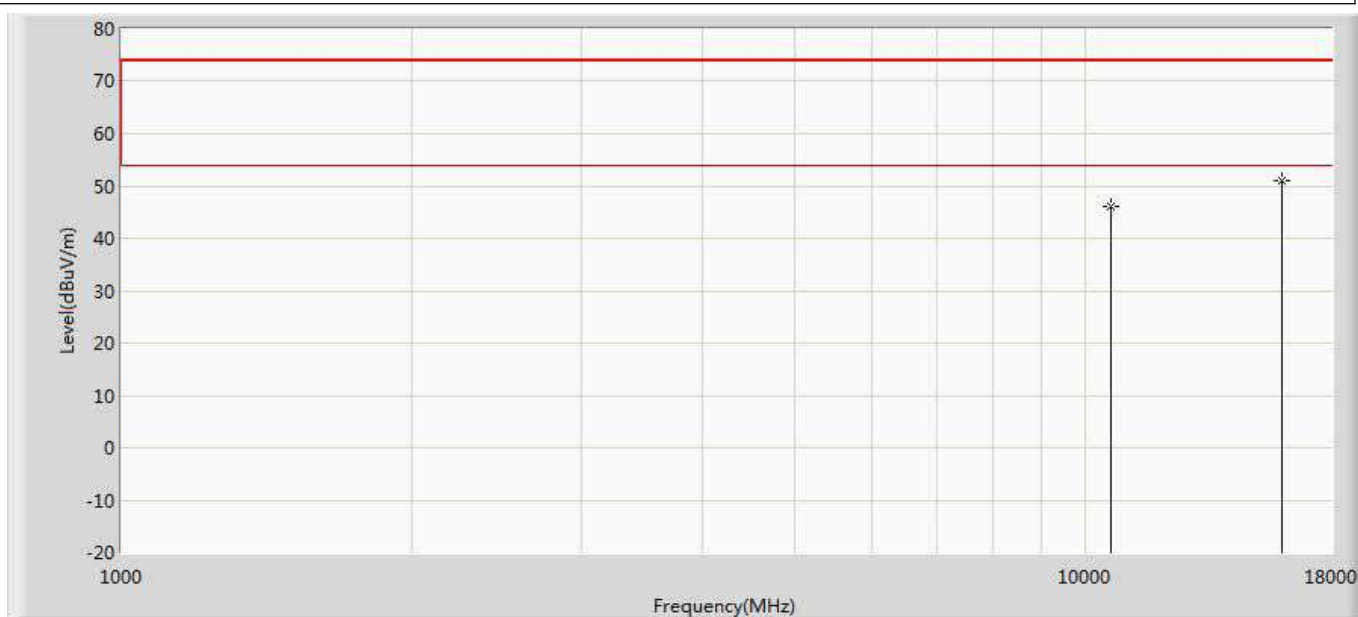


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10600.000	45.708	36.354	-28.292	74.000	9.354	0	0	PK
2	*	15900.000	51.103	33.529	-22.897	74.000	17.574	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 233
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5320MHz by 11a MIMO	

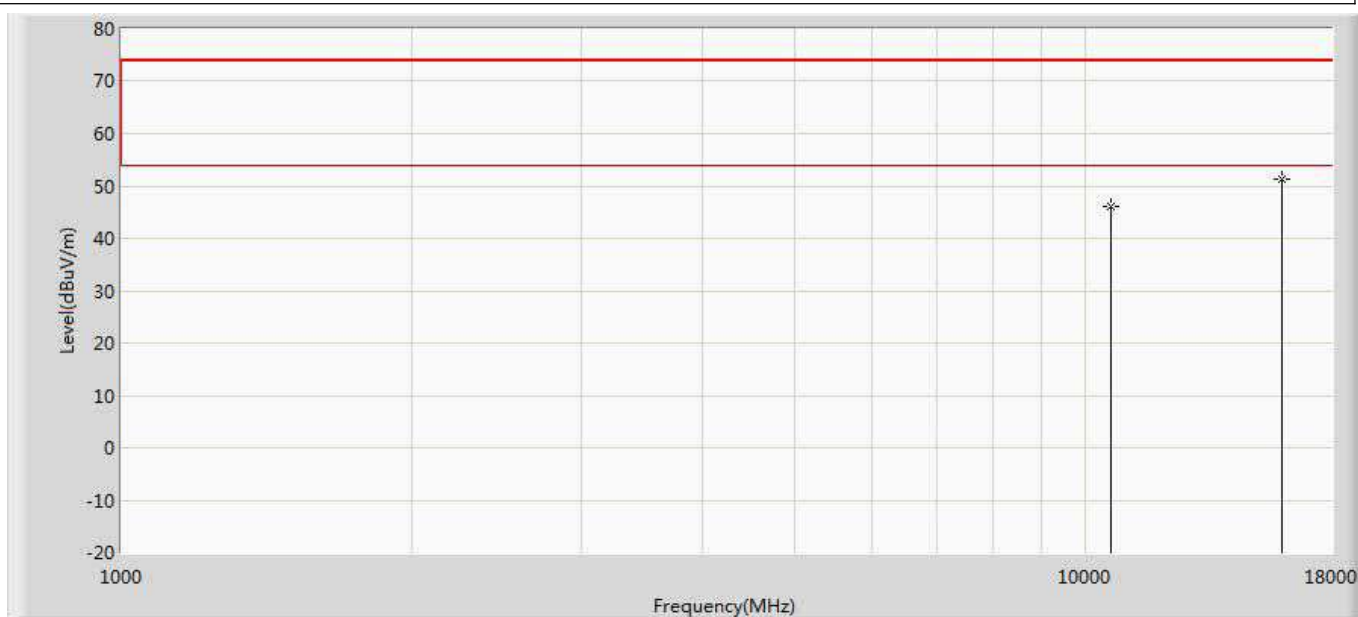


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10640.000	46.109	37.137	-27.891	74.000	8.972	0	0	PK
2	*	15960.000	51.037	33.266	-22.963	74.000	17.771	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 234
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5320MHz by 11a MIMO	

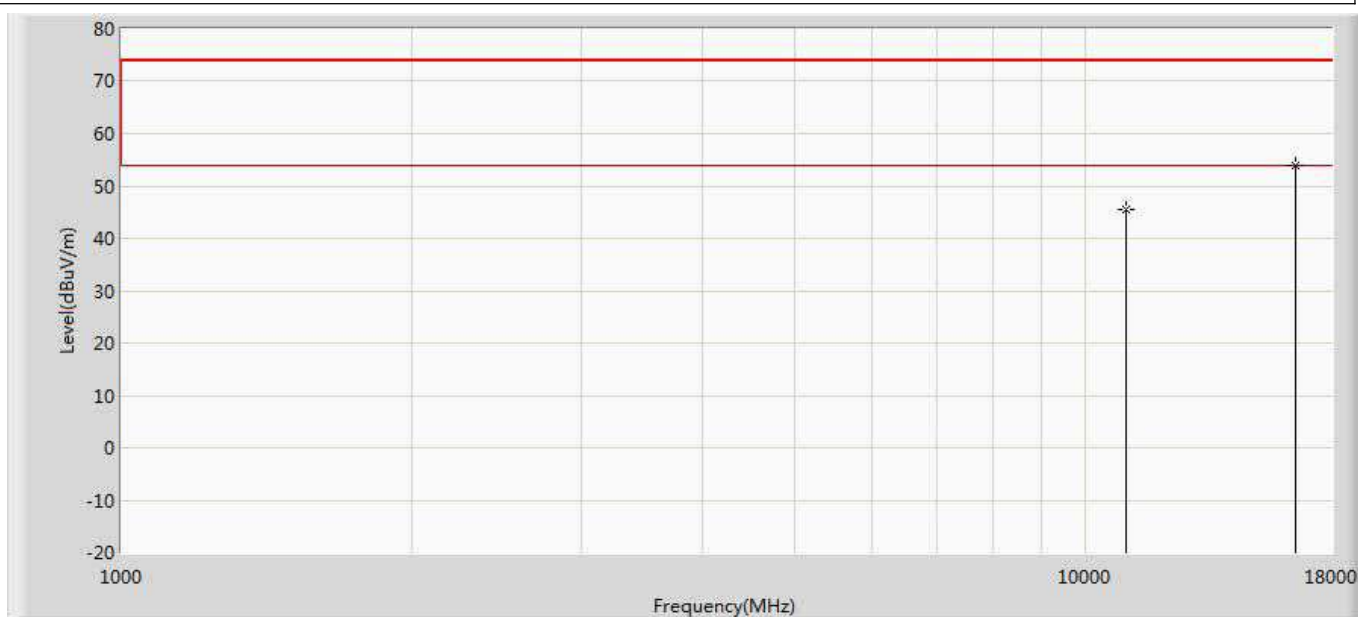


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10640.000	46.096	37.124	-27.904	74.000	8.972	0	0	PK
2	*	15960.000	51.313	33.542	-22.687	74.000	17.771	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 235
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5500MHz by 11a MIMO	

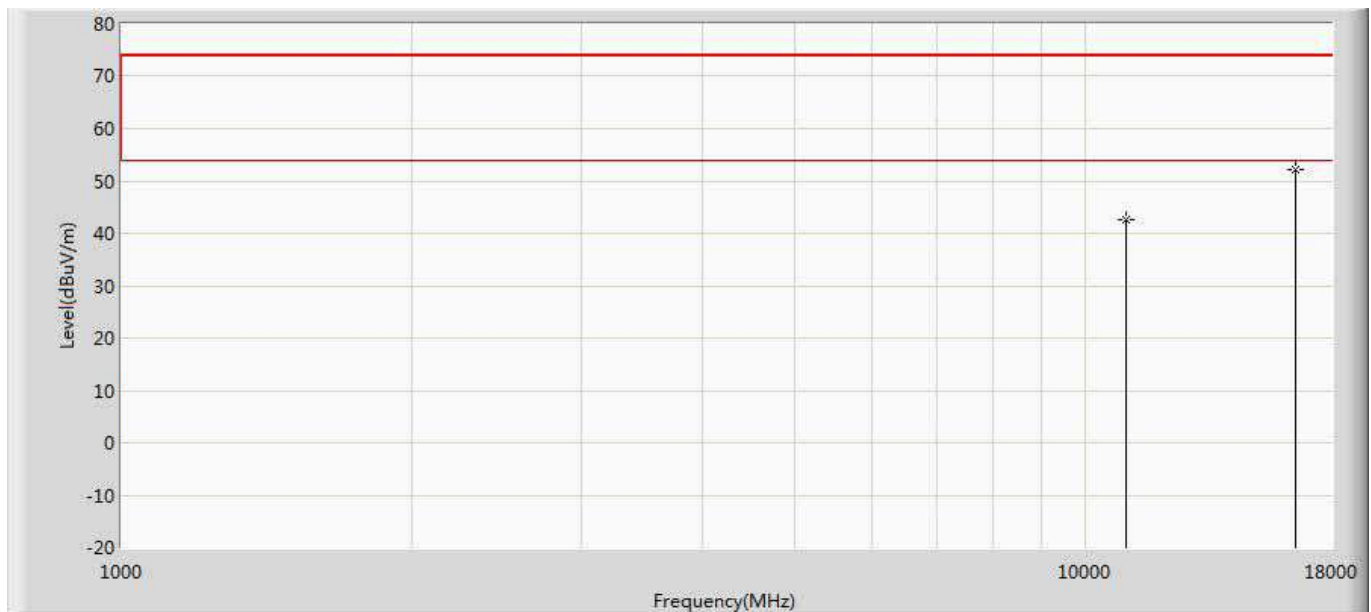


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11000.000	45.505	35.762	-28.495	74.000	9.742	0	0	PK
2	*	16500.000	53.821	34.758	-20.179	74.000	19.063	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 236
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5500MHz by 11a MIMO	

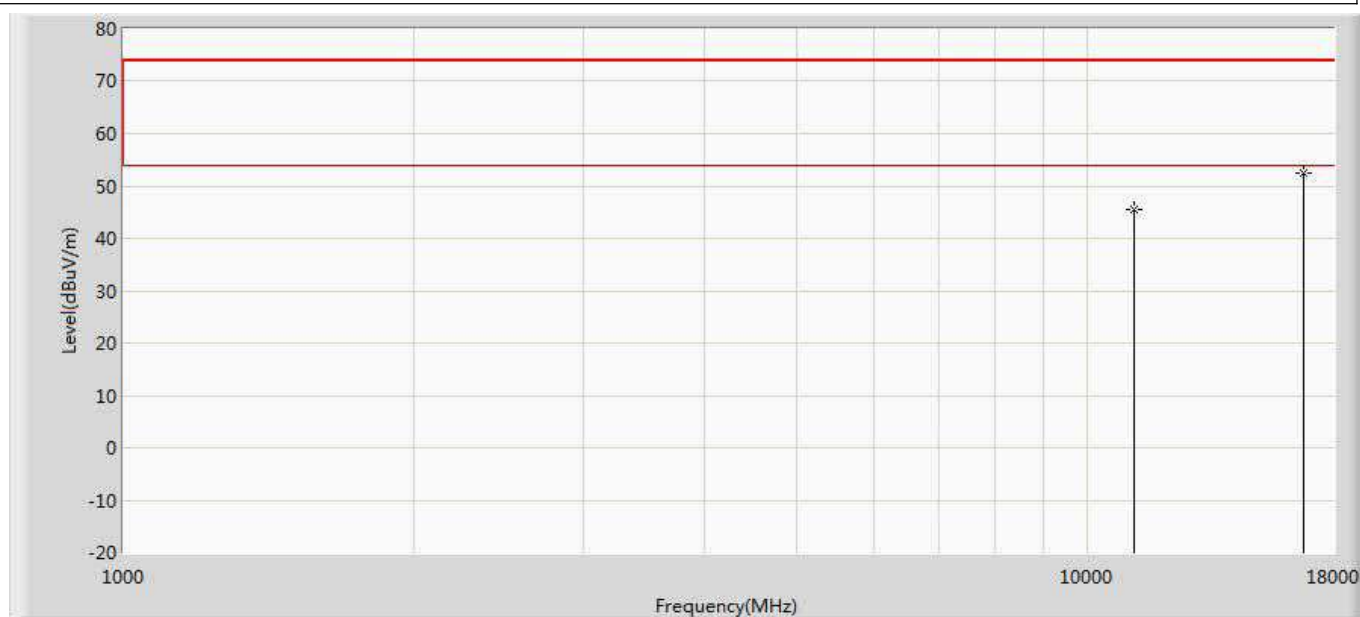


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11000.000	42.489	32.746	-31.511	74.000	9.742	0	0	PK
2	*	16500.000	52.301	33.238	-21.699	74.000	19.063	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 237
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5580MHz by 11a MIMO	

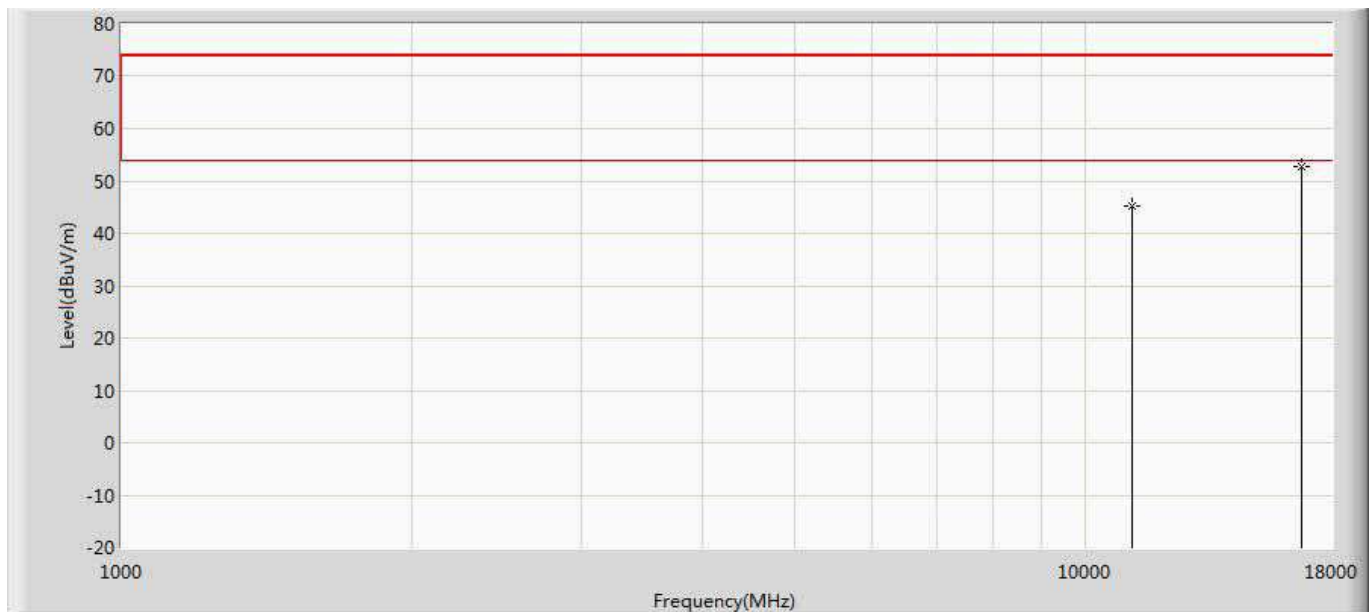


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11160.000	45.482	35.888	-28.518	74.000	9.594	0	0	PK
2	*	16740.000	52.596	33.862	-21.404	74.000	18.734	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 238
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5580MHz by 11a MIMO	

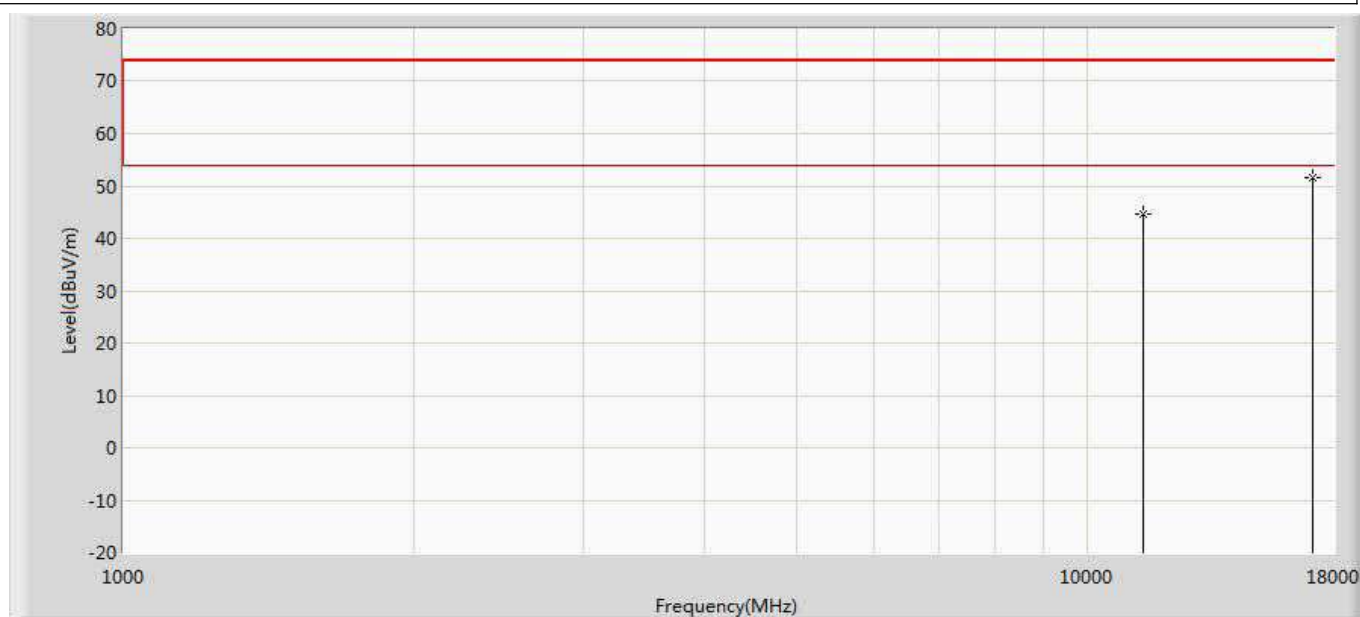


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11160.000	45.214	35.620	-28.786	74.000	9.594	0	0	PK
2	*	16740.000	52.696	33.962	-21.304	74.000	18.734	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 239
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5700MHz by 11a MIMO	

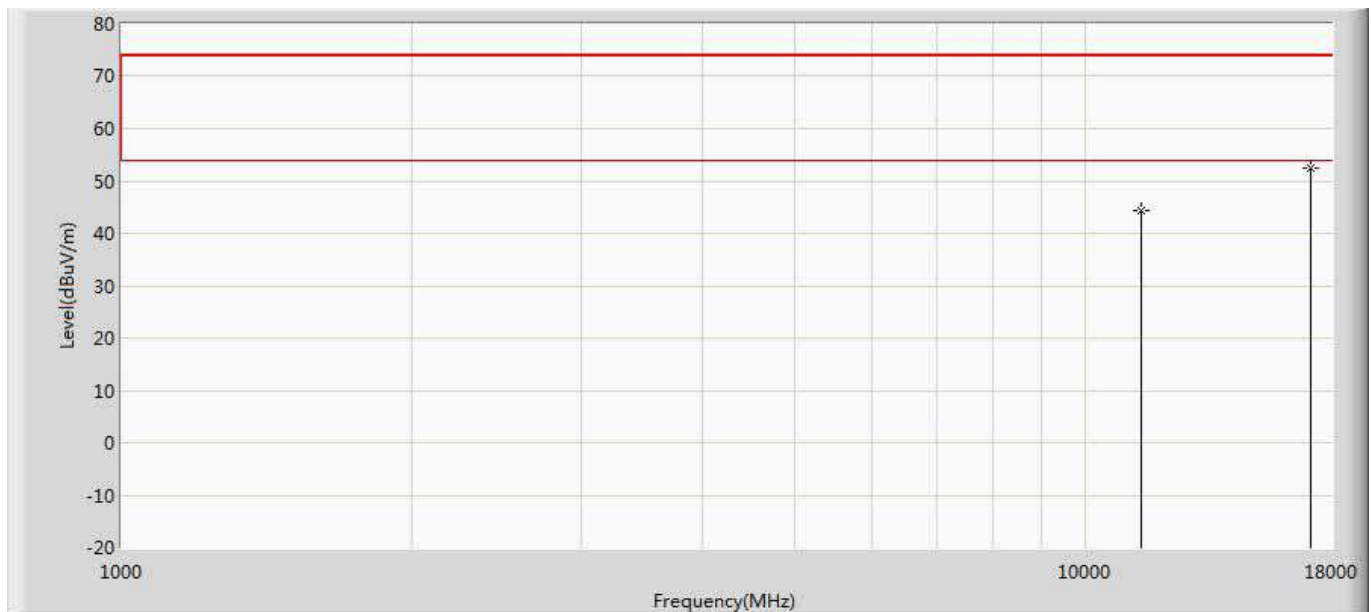


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11400.000	44.656	35.026	-29.344	74.000	9.631	0	0	PK
2	*	17100.000	51.474	33.343	-22.526	74.000	18.131	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 240
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5700MHz by 11a MIMO	

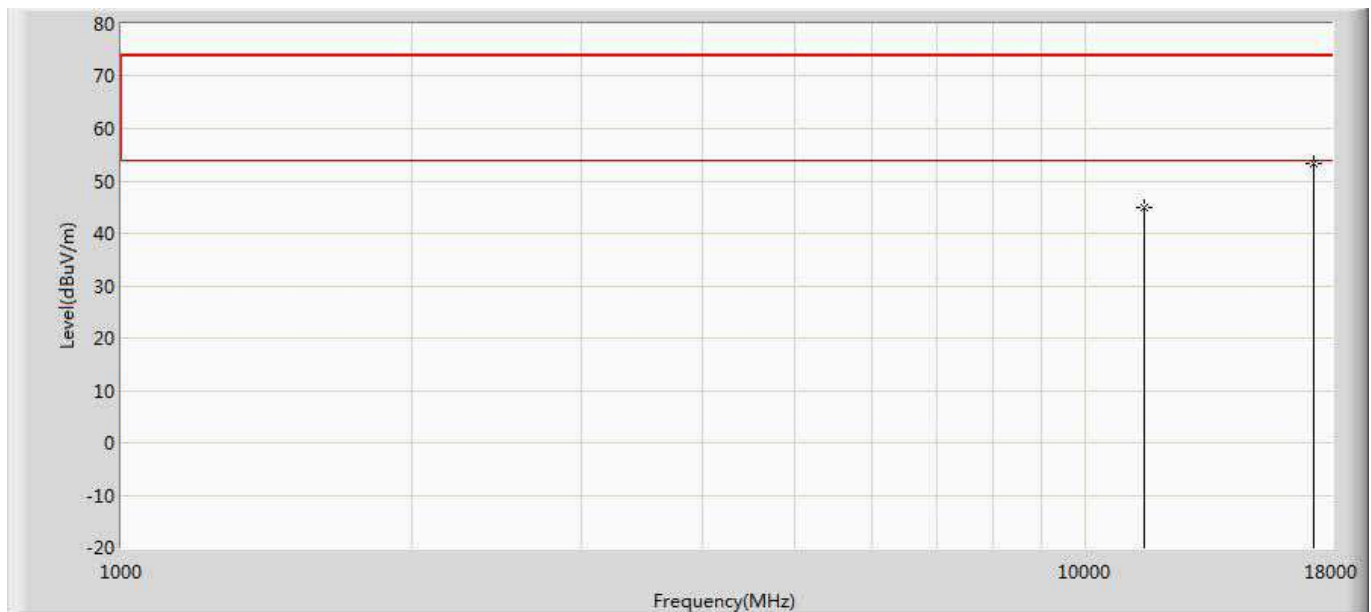


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11400.000	44.390	34.760	-29.610	74.000	9.631	0	0	PK
2	*	17100.000	52.319	34.188	-21.681	74.000	18.131	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 241
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5745MHz by 11a MIMO	

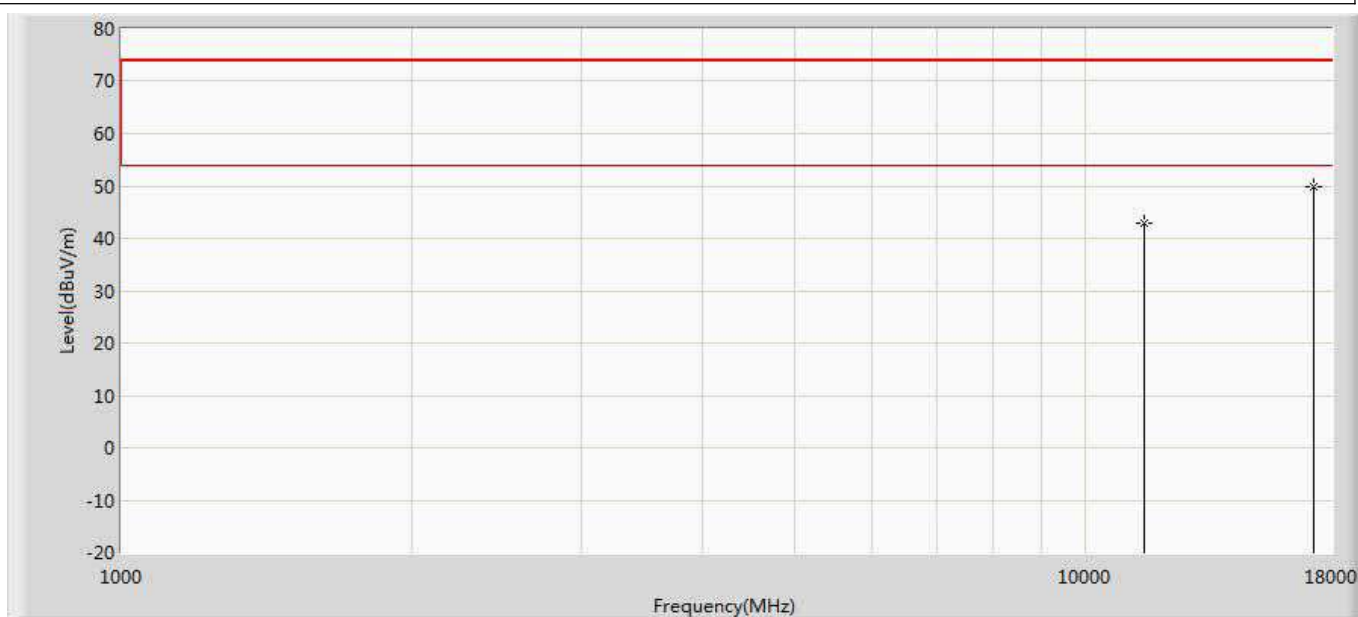


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11490.000	44.999	35.748	-29.001	74.000	9.250	0	0	PK
2	*	17235.000	53.189	32.861	-20.811	74.000	20.328	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 242
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5745MHz by 11a MIMO	

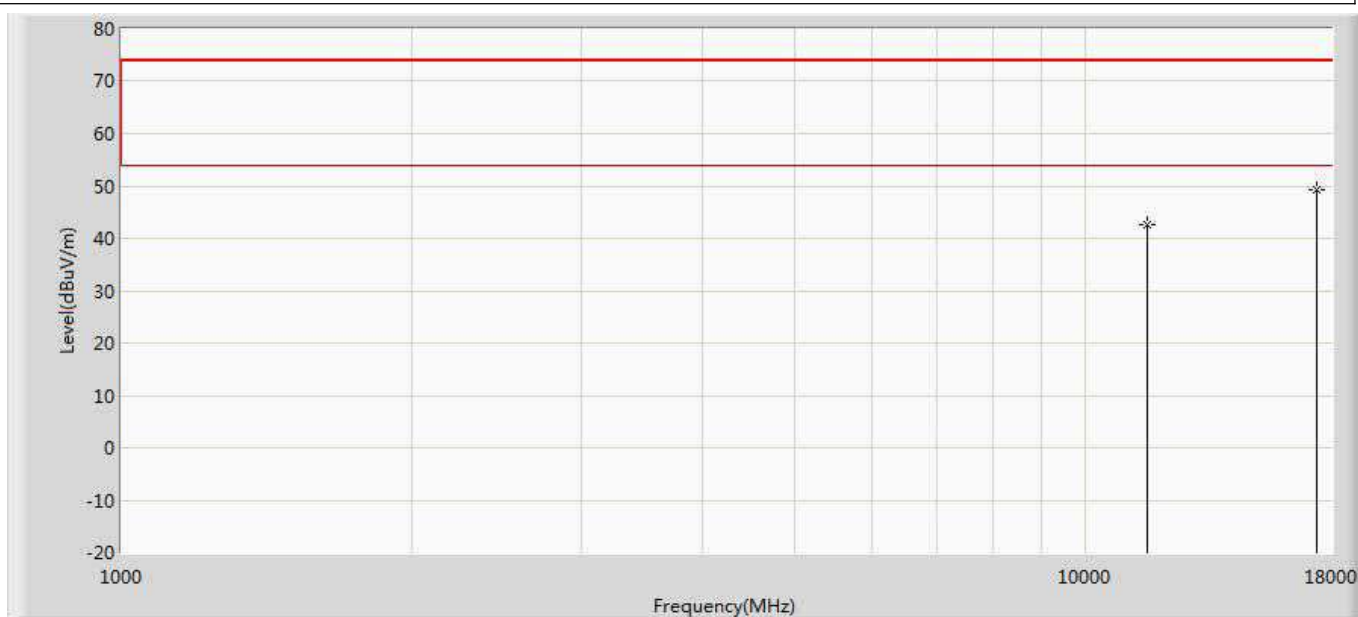


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11490.000	42.765	33.514	-31.235	74.000	9.250	0	0	PK
2	*	17235.000	49.794	29.466	-24.206	74.000	20.328	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 243
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5785MHz by 11a MIMO	

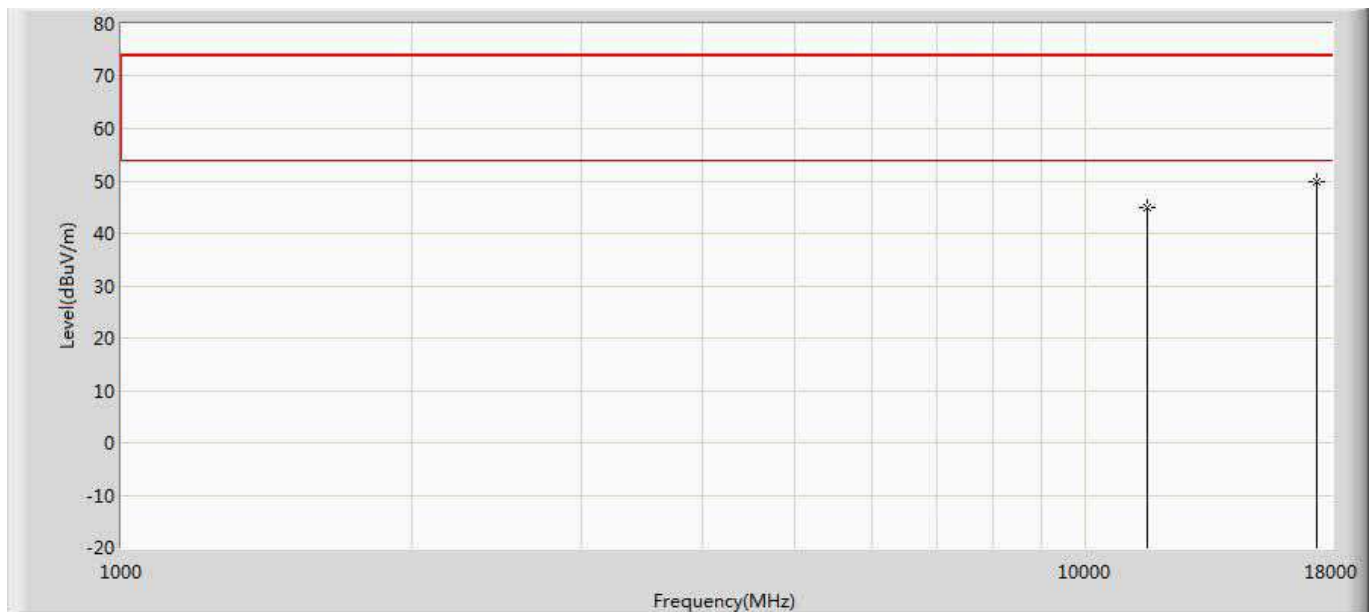


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11570.000	42.562	32.823	-31.438	74.000	9.740	0	0	PK
2	*	17355.000	49.273	30.824	-24.727	74.000	18.448	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 244
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5785MHz by 11a MIMO	

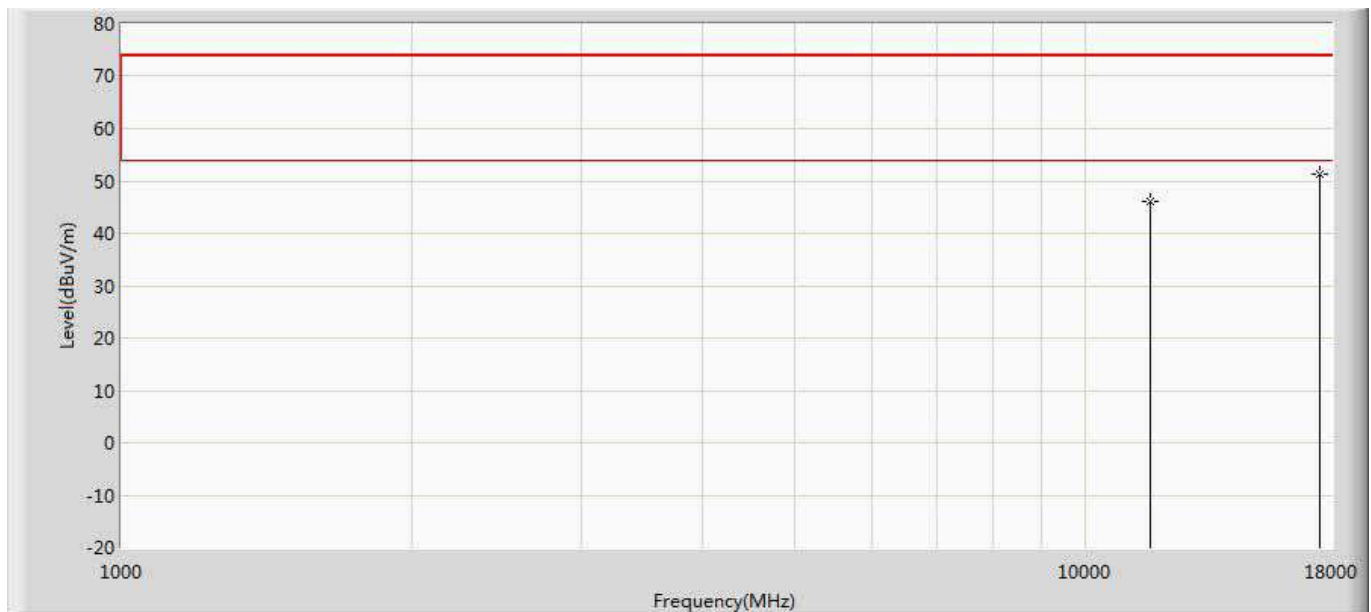


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11570.000	44.885	35.146	-29.115	74.000	9.740	0	0	PK
2	*	17355.000	49.854	31.405	-24.146	74.000	18.448	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 245
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:12
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5825MHz by 11a MIMO	

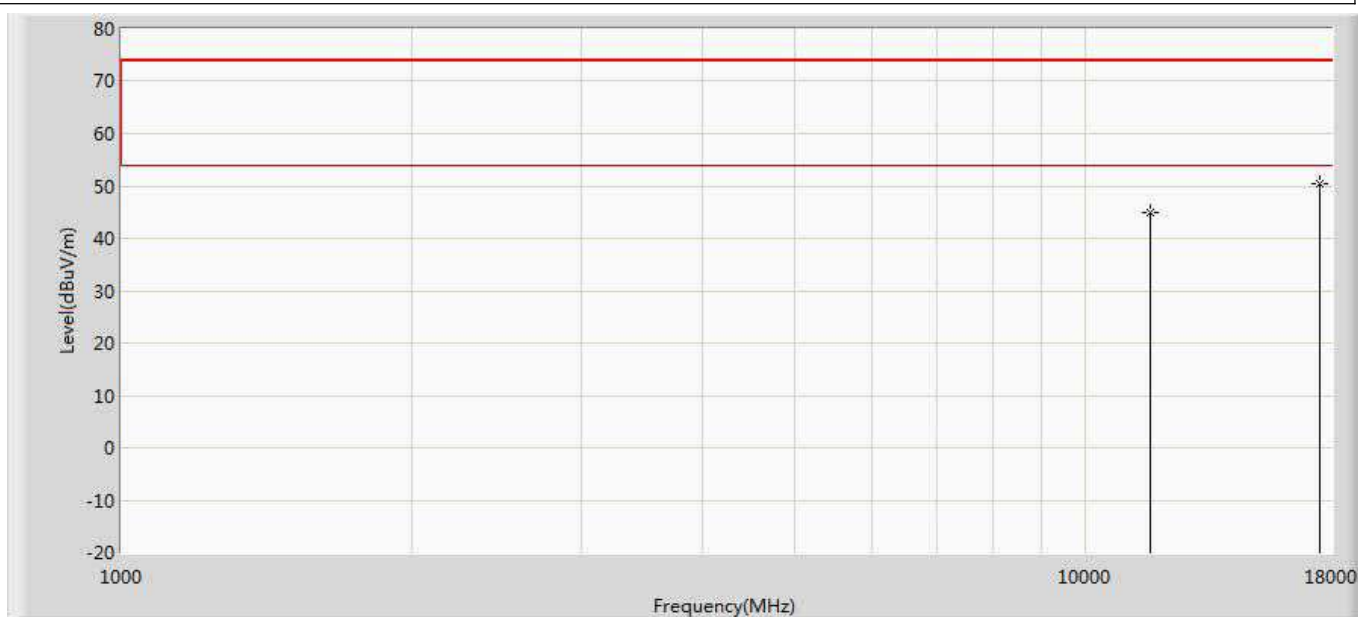


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11650.000	46.006	35.972	-27.994	74.000	10.034	0	0	PK
2	*	17475.000	51.360	34.065	-22.640	74.000	17.294	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 246
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:12
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1: Transmit at 5825MHz by 11a MIMO	

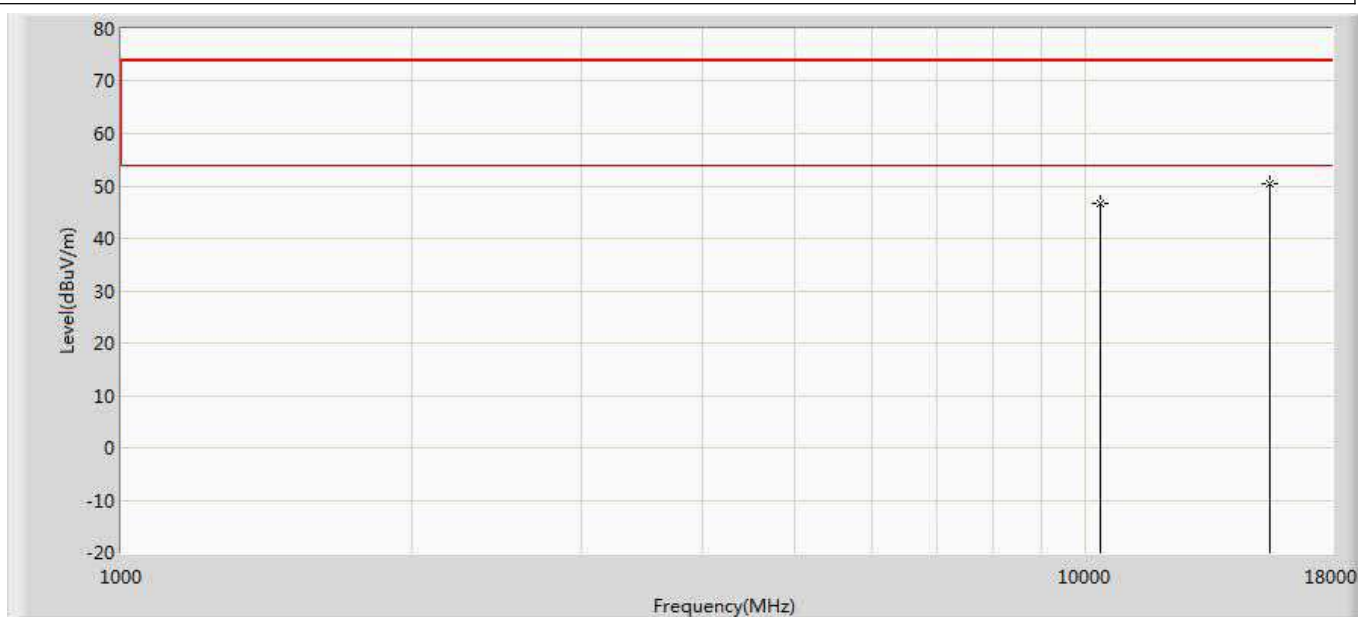


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11650.000	44.924	34.890	-29.076	74.000	10.034	0	0	PK
2	*	17475.000	50.418	33.123	-23.582	74.000	17.294	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 247
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:12
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5180MHz by 11n(20MHz) MIMO	

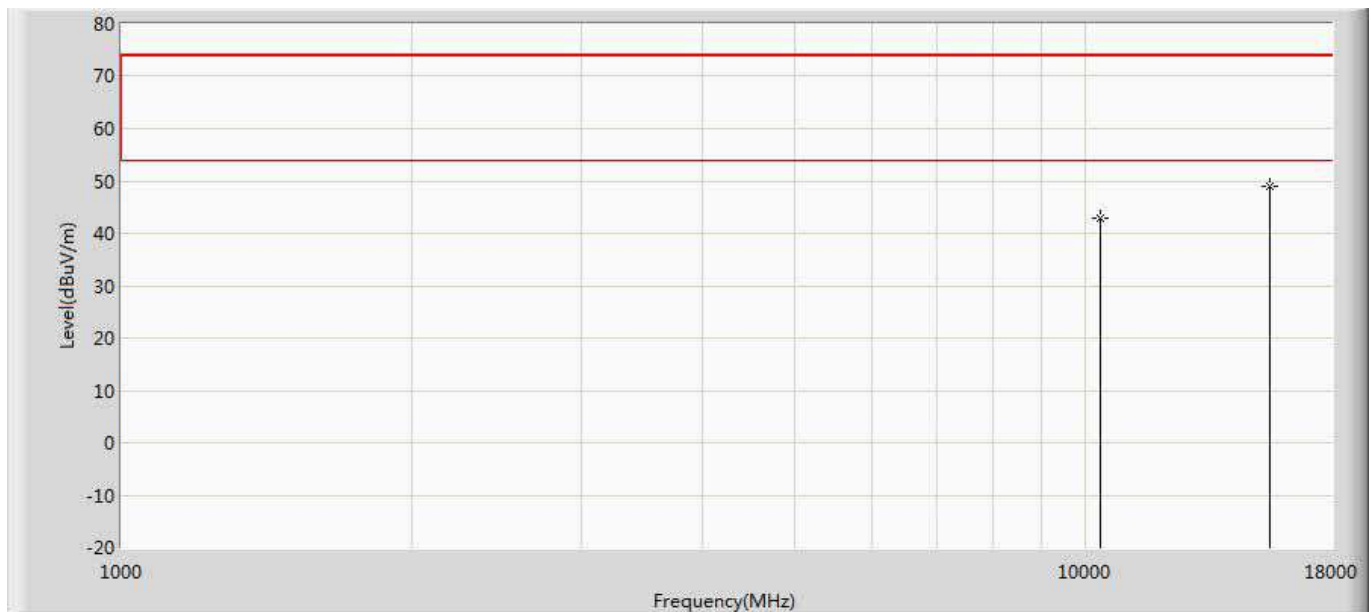


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10360.000	46.538	37.582	-27.462	74.000	8.957	0	0	PK
2	*	15540.000	50.508	33.937	-23.492	74.000	16.571	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 248
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:12
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5180MHz by 11n(20MHz) MIMO	

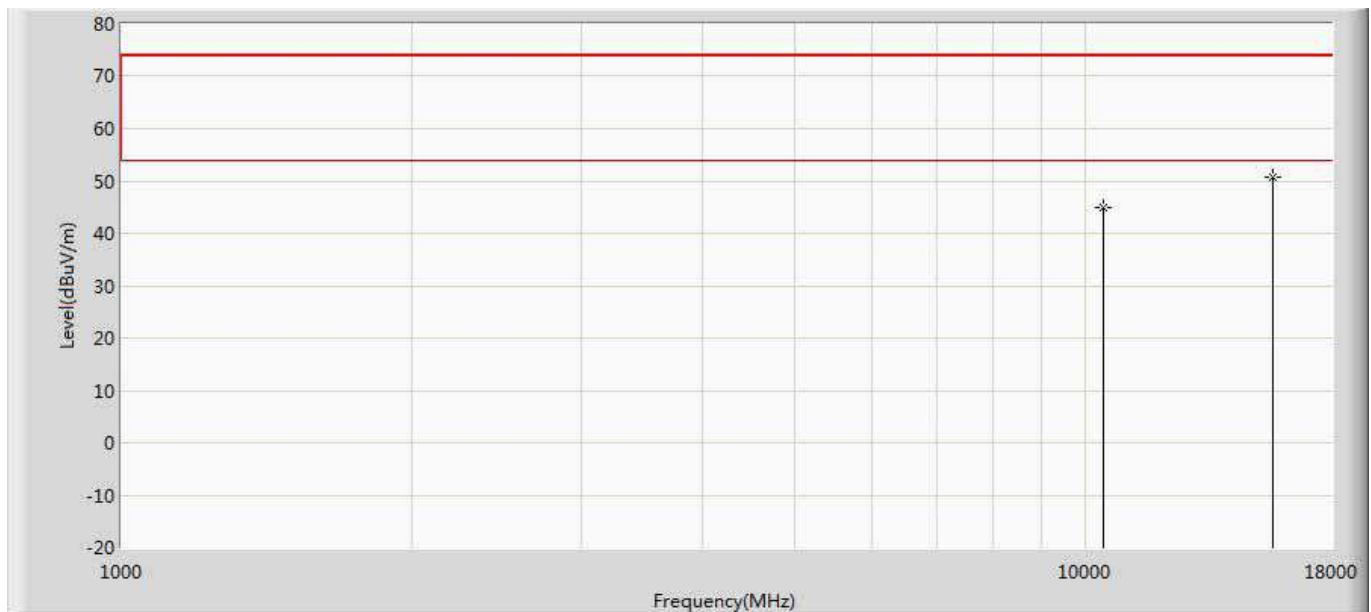


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10360.000	43.018	34.062	-30.982	74.000	8.957	0	0	PK
2	*	15540.000	48.854	32.283	-25.146	74.000	16.571	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 249
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:12
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5220MHz by 11n(20MHz) MIMO	

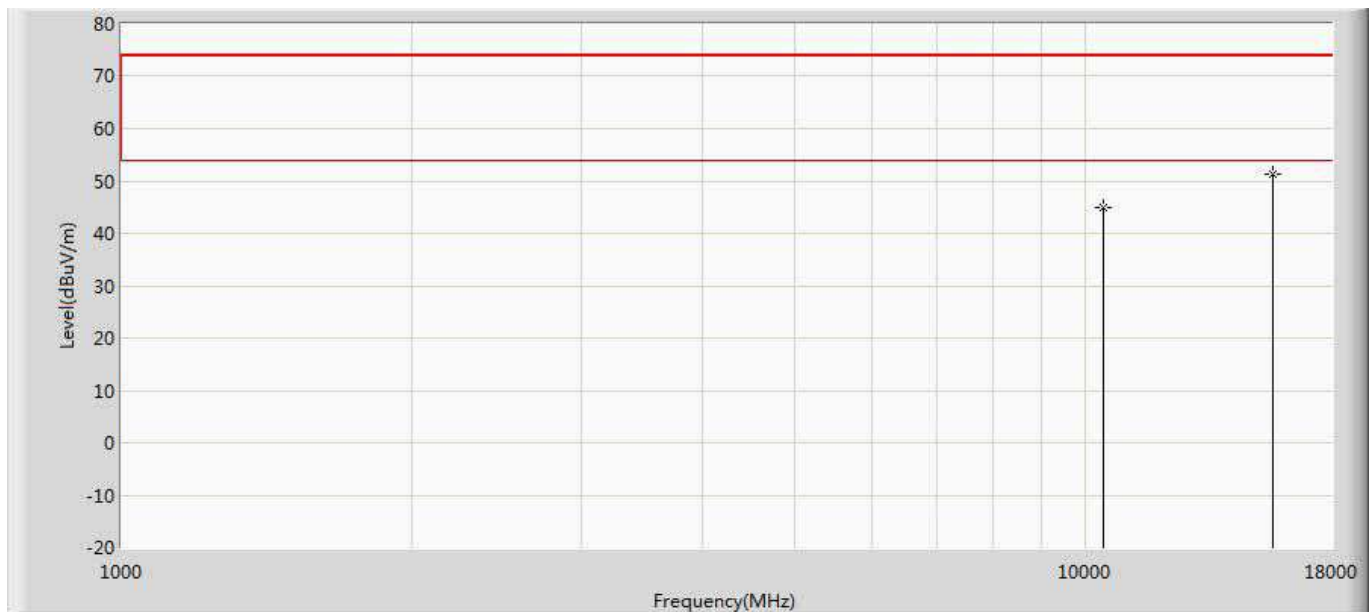


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10440.000	45.072	36.275	-28.928	74.000	8.797	0	0	PK
2	*	15660.000	50.765	33.588	-23.235	74.000	17.177	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 250
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:12
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5220MHz by 11n(20MHz) MIMO	

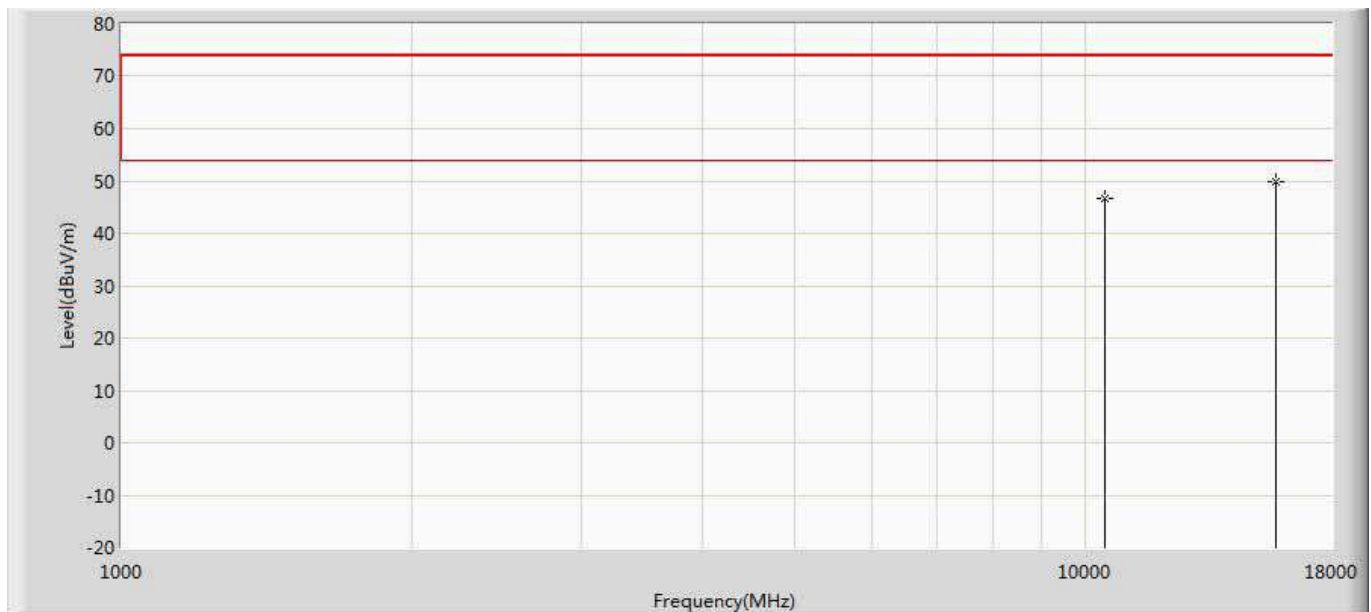


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10440.000	45.051	36.254	-28.949	74.000	8.797	0	0	PK
2	*	15660.000	51.229	34.052	-22.771	74.000	17.177	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 251
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:12
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5240MHz by 11n(20MHz) MIMO	

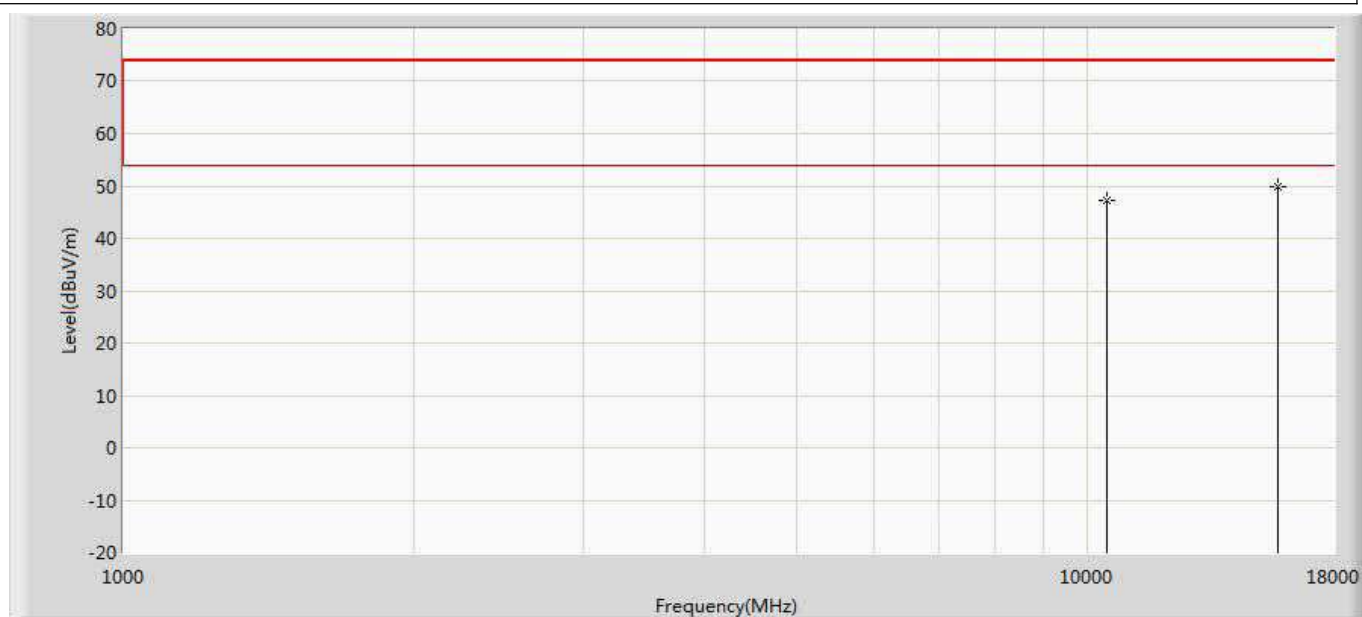


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10480.000	46.782	36.567	-27.218	74.000	10.215	0	0	PK
2	*	15720.000	49.851	33.794	-24.149	74.000	16.058	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 252
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:12
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5240MHz by 11n(20MHz) MIMO	

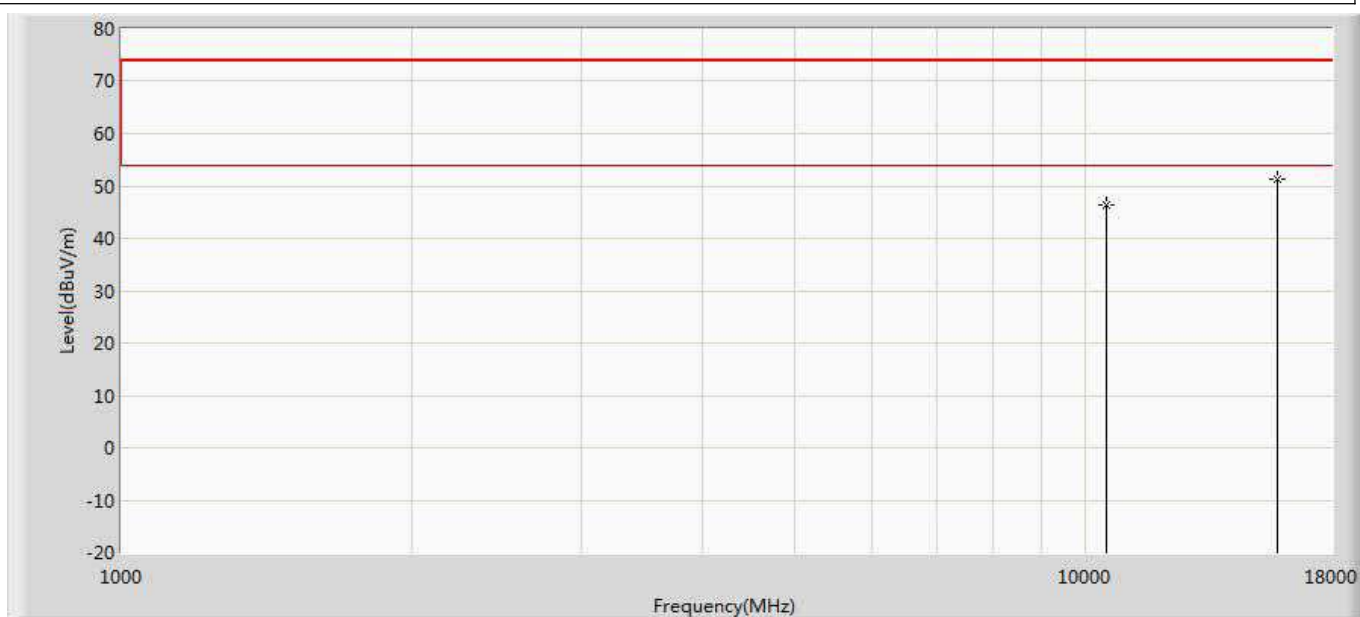


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10480.000	47.390	37.175	-26.610	74.000	10.215	0	0	PK
2	*	15720.000	49.995	33.938	-24.005	74.000	16.058	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 253
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:13
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5260MHz by 11n(20MHz) MIMO	

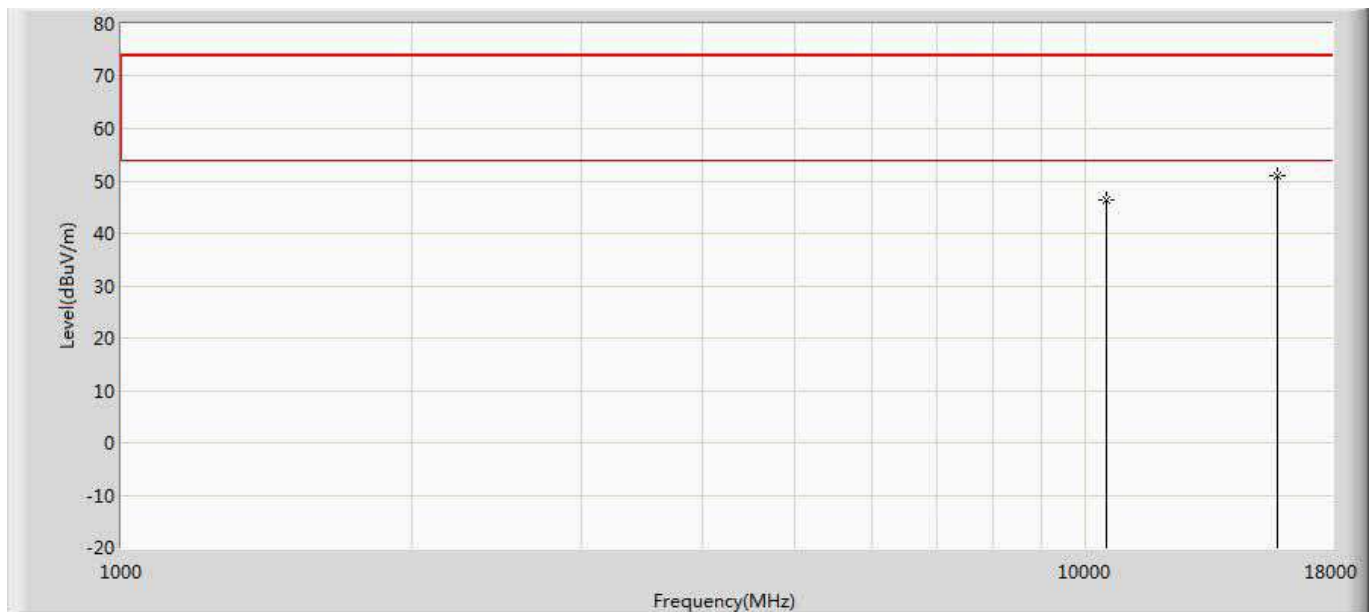


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10520.000	46.313	37.612	-27.687	74.000	8.701	0	0	PK
2	*	15780.000	51.338	33.965	-22.662	74.000	17.373	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 254
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:13
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5260MHz by 11n(20MHz) MIMO	

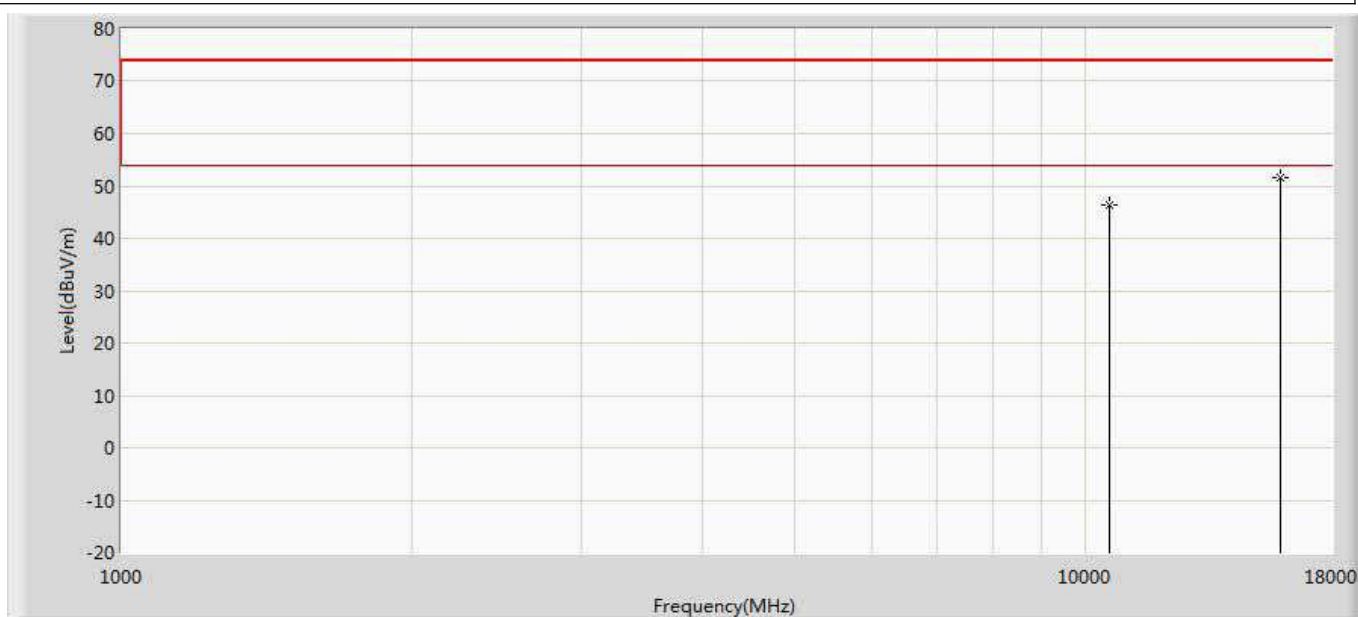


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10520.000	46.235	37.534	-27.765	74.000	8.701	0	0	PK
2	*	15780.000	51.068	33.695	-22.932	74.000	17.373	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 255
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:13
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5300MHz by 11n(20MHz) MIMO	

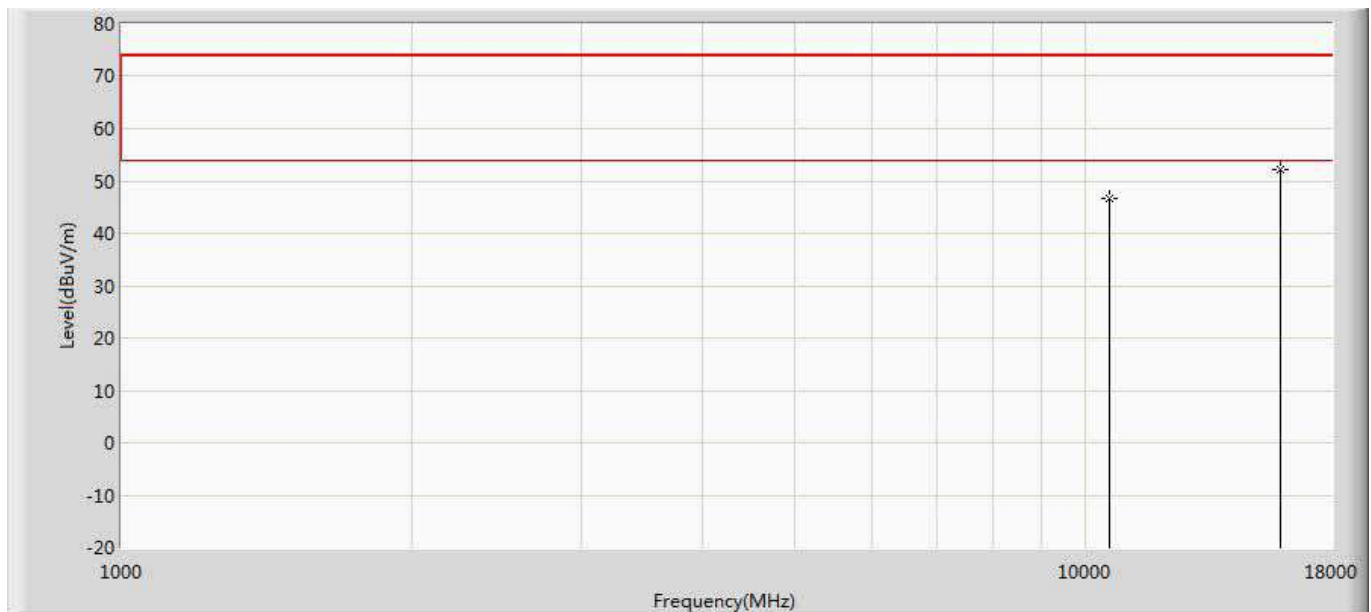


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10600.000	46.442	37.088	-27.558	74.000	9.354	0	0	PK
2	*	15900.000	51.579	34.005	-22.421	74.000	17.574	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 256
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:13
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5300MHz by 11n(20MHz) MIMO	

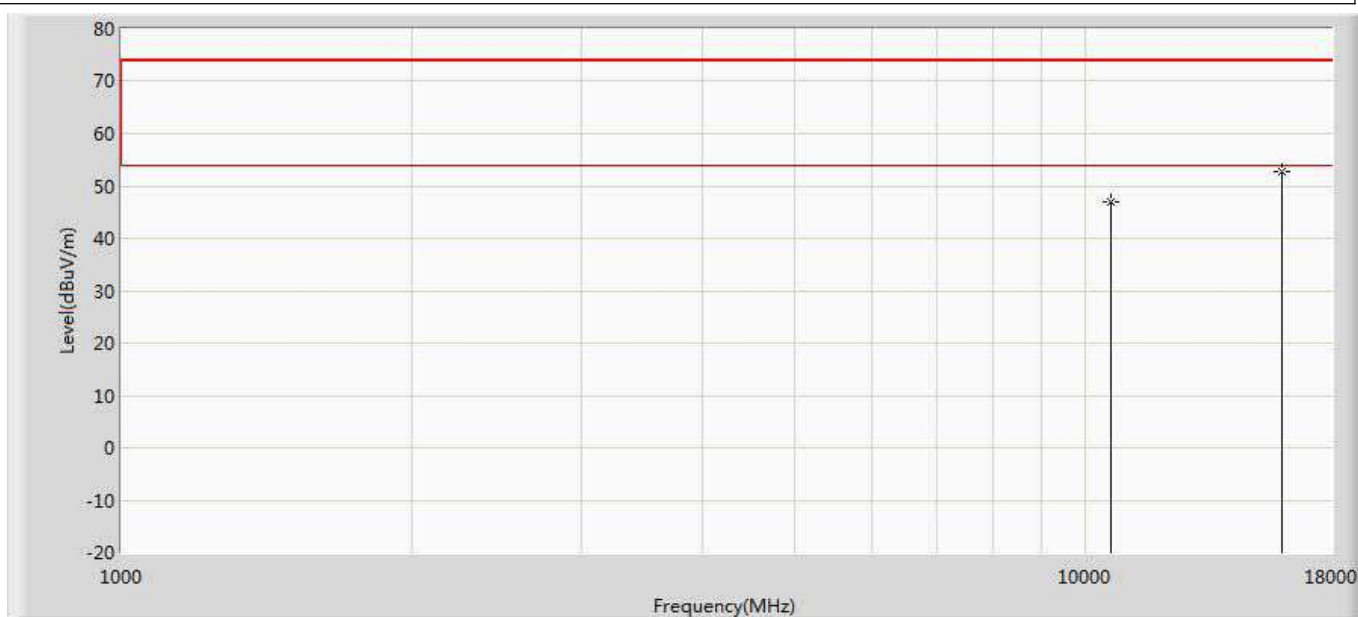


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10600.000	46.679	37.325	-27.321	74.000	9.354	0	0	PK
2	*	15900.000	52.140	34.566	-21.860	74.000	17.574	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 257
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:13
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5320MHz by 11n(20MHz) MIMO	

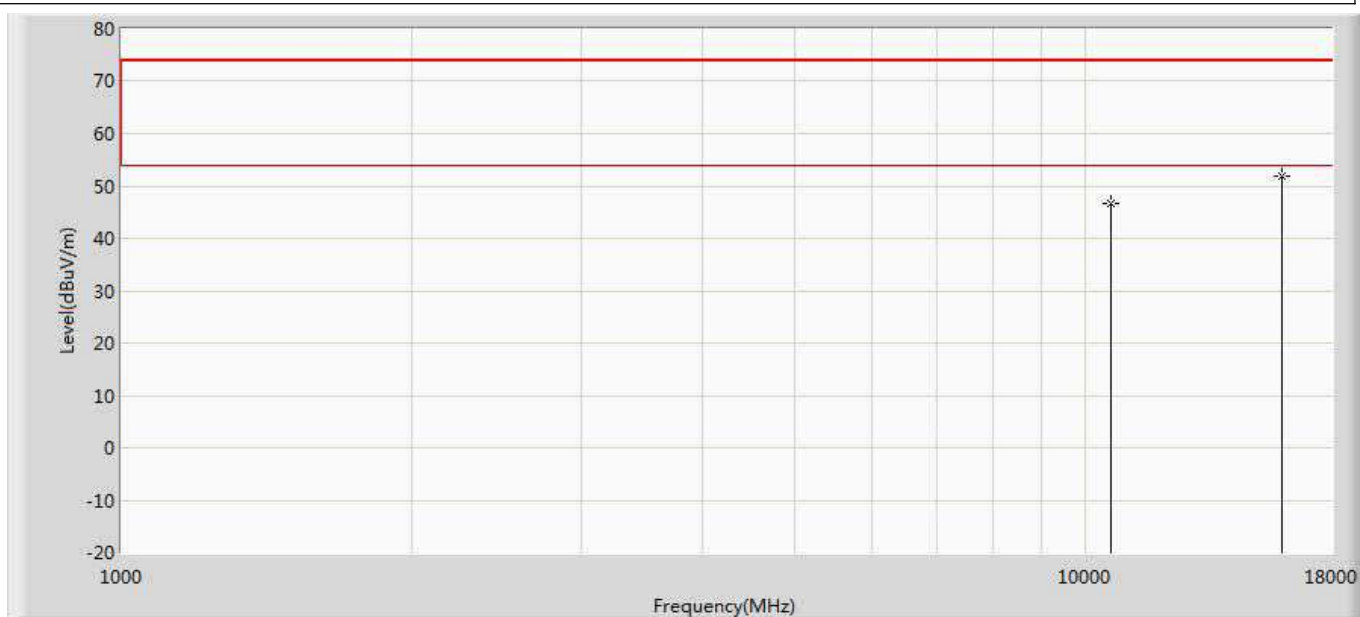


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10640.000	46.902	37.930	-27.098	74.000	8.972	0	0	PK
2	*	15960.000	52.734	34.963	-21.266	74.000	17.771	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 258
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:13
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5320MHz by 11n(20MHz) MIMO	

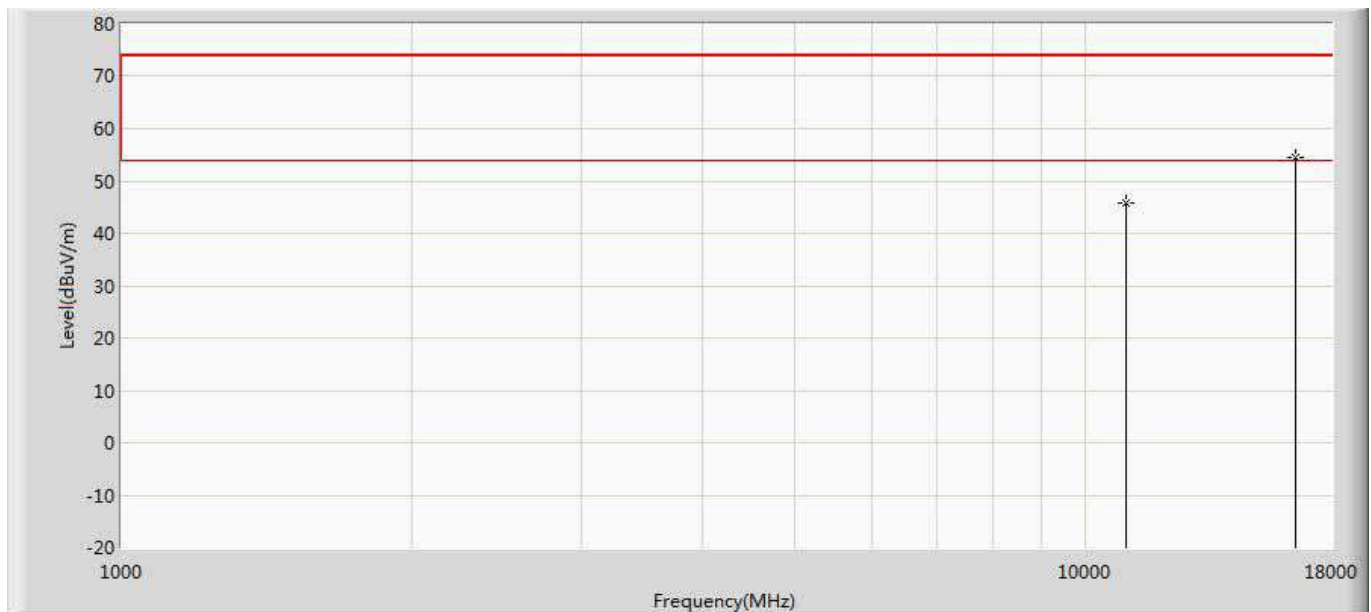


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10640.000	46.734	37.762	-27.266	74.000	8.972	0	0	PK
2	*	15960.000	51.805	34.034	-22.195	74.000	17.771	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 259
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5500MHz by 11n(20MHz) MIMO	

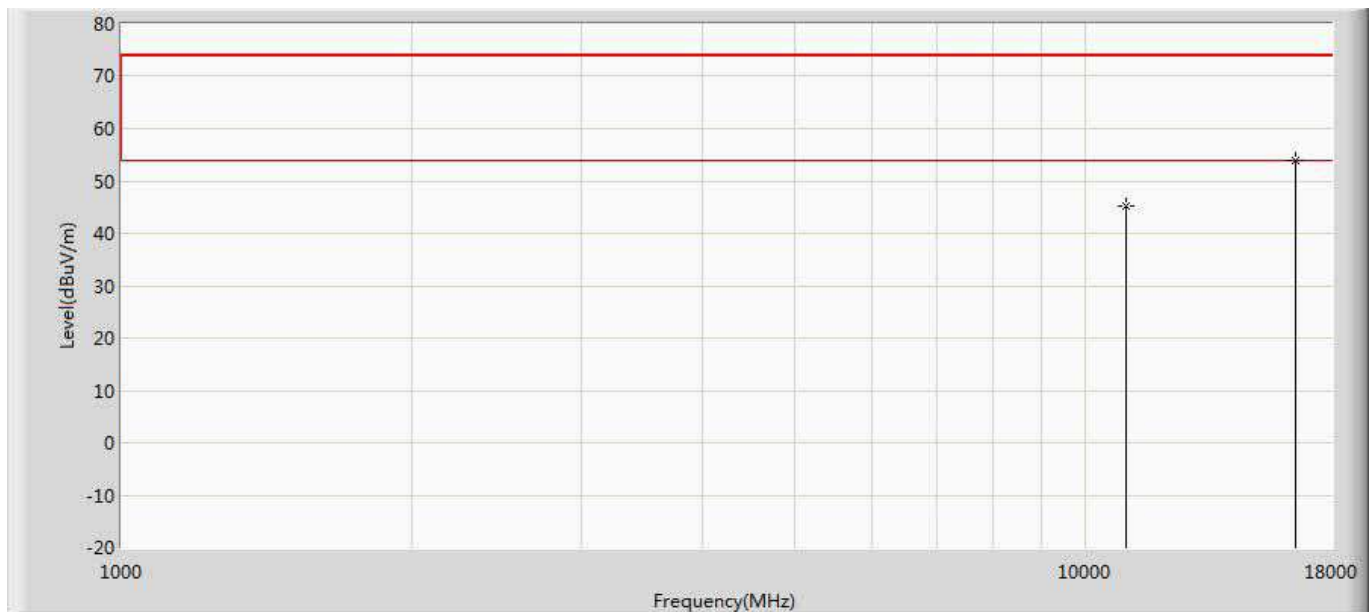


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11000.000	45.661	35.918	-28.339	74.000	9.742	0	0	PK
2	*	16500.000	54.479	35.416	-19.521	74.000	19.063	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 260
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5500MHz by 11n(20MHz) MIMO	

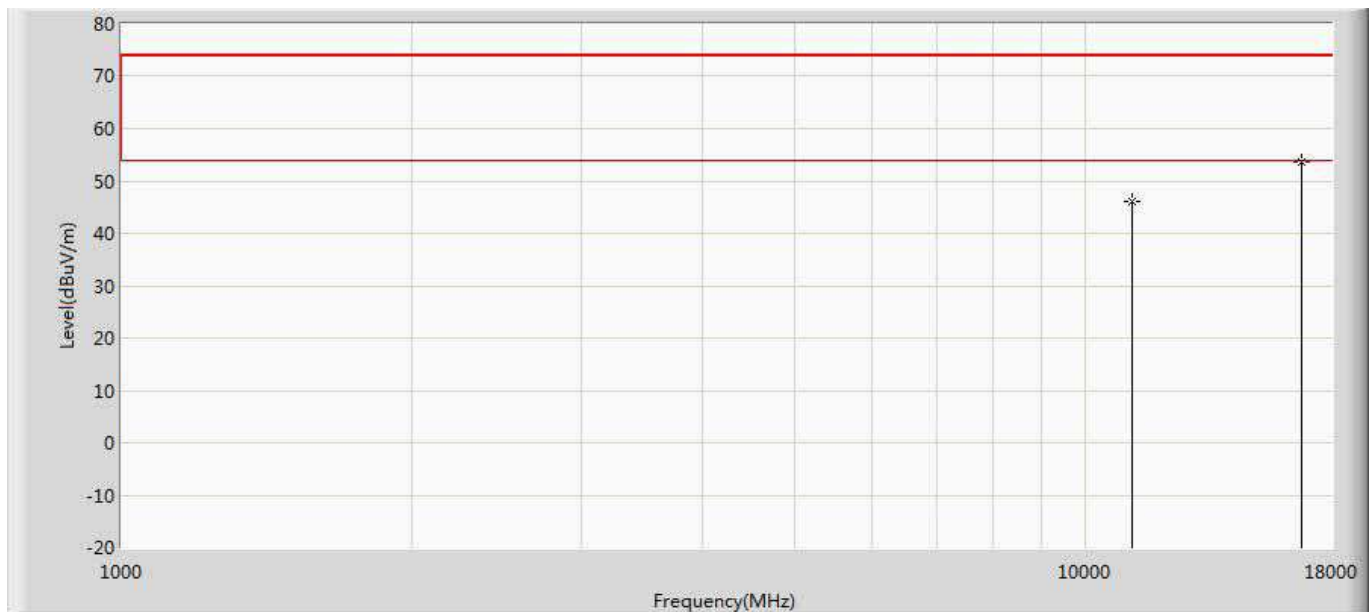


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11000.000	45.150	35.407	-28.850	74.000	9.742	0	0	PK
2	*	16500.000	53.857	34.794	-20.143	74.000	19.063	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 261
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5580MHz by 11n(20MHz) MIMO	

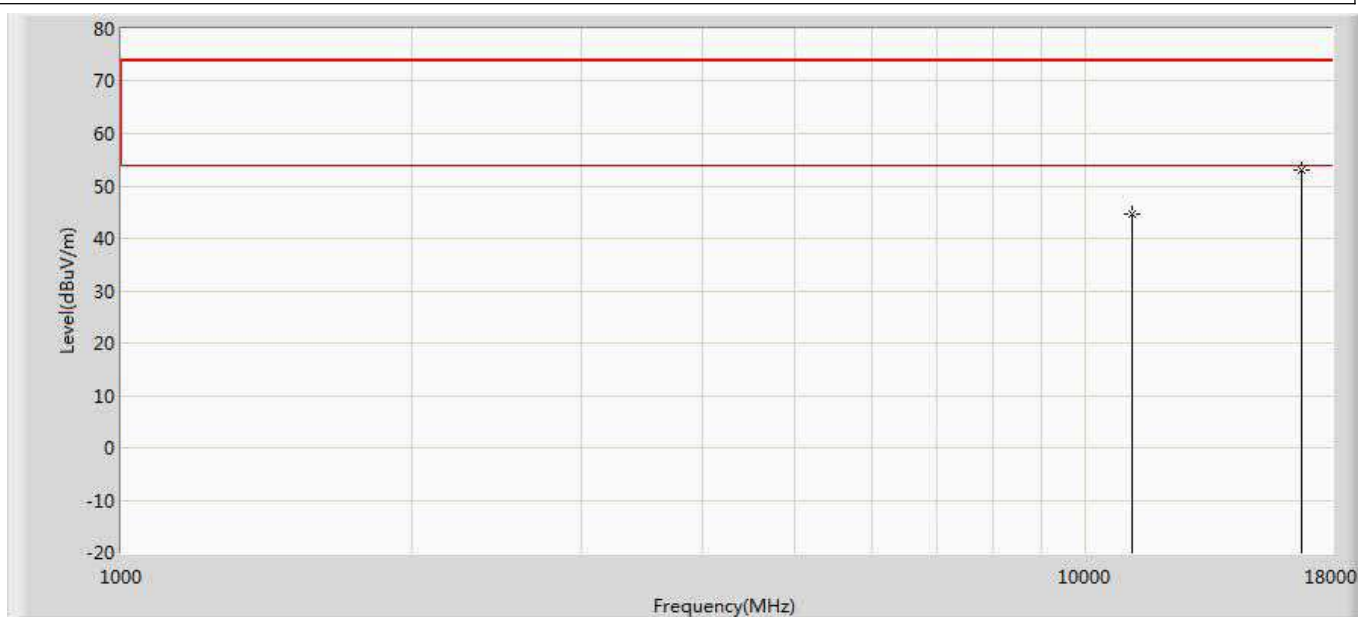


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11160.000	45.945	36.351	-28.055	74.000	9.594	0	0	PK
2	*	16740.000	53.591	34.857	-20.409	74.000	18.734	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 262
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5580MHz by 11n(20MHz) MIMO	

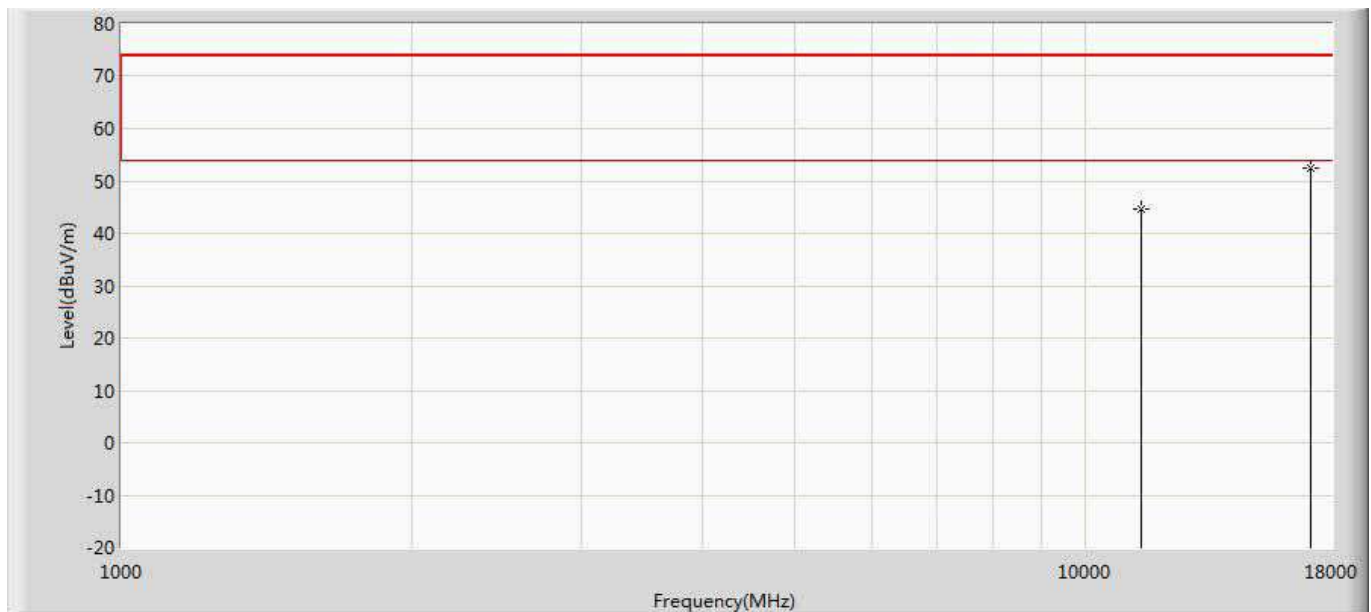


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11160.000	44.622	35.028	-29.378	74.000	9.594	0	0	PK
2	*	16740.000	53.030	34.296	-20.970	74.000	18.734	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 263
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5700MHz by 11n(20MHz) MIMO	

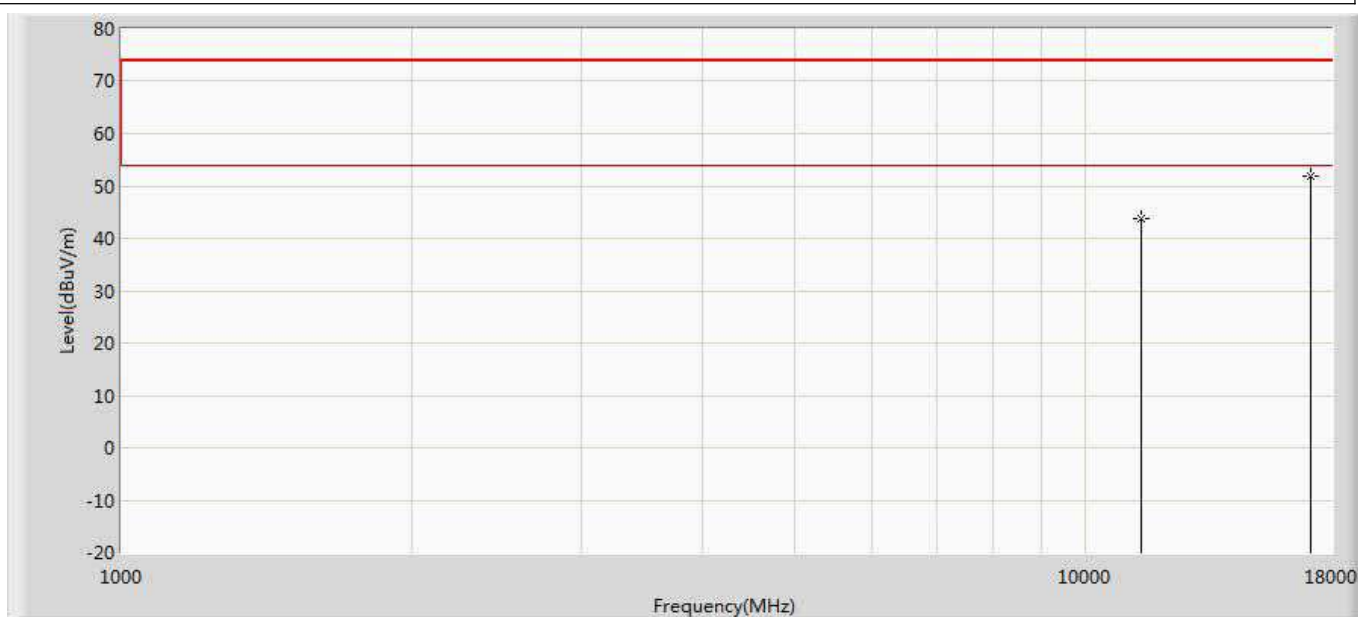


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11400.000	44.678	35.048	-29.322	74.000	9.631	0	0	PK
2	*	17100.000	52.455	34.324	-21.545	74.000	18.131	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 264
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5700MHz by 11n(20MHz) MIMO	

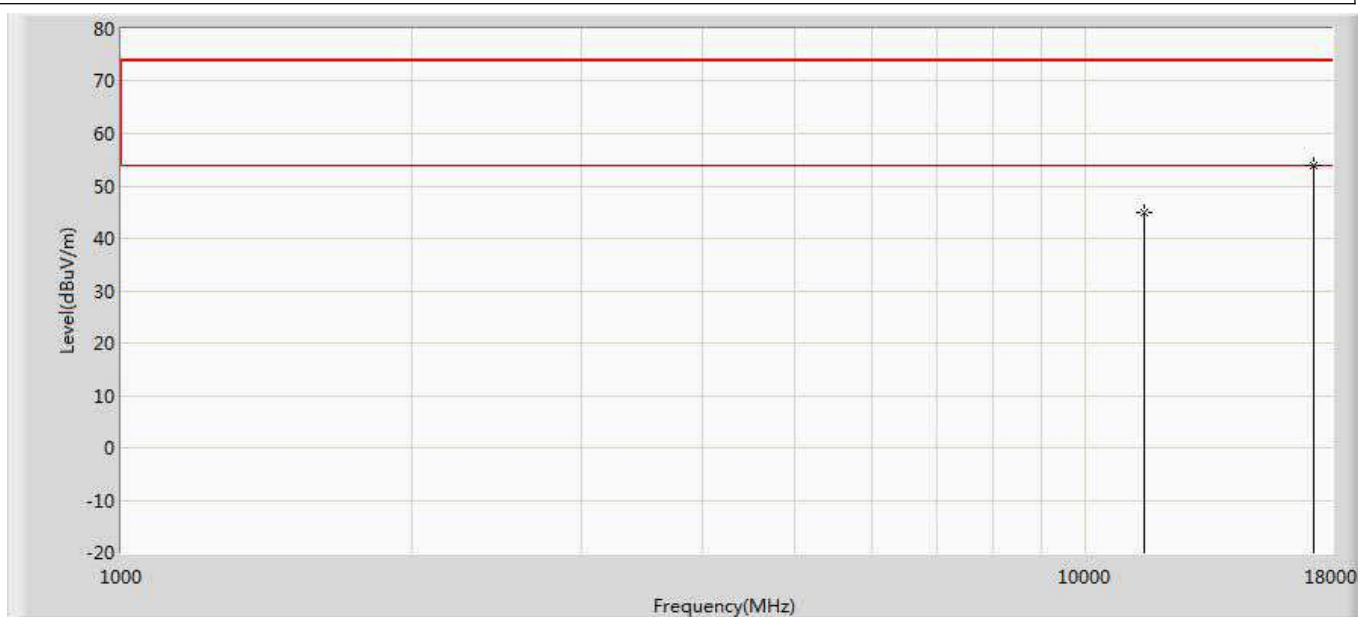


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11400.000	43.664	34.034	-30.336	74.000	9.631	0	0	PK
2	*	17100.000	51.817	33.686	-22.183	74.000	18.131	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 265
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5745MHz by 11n(20MHz) MIMO	

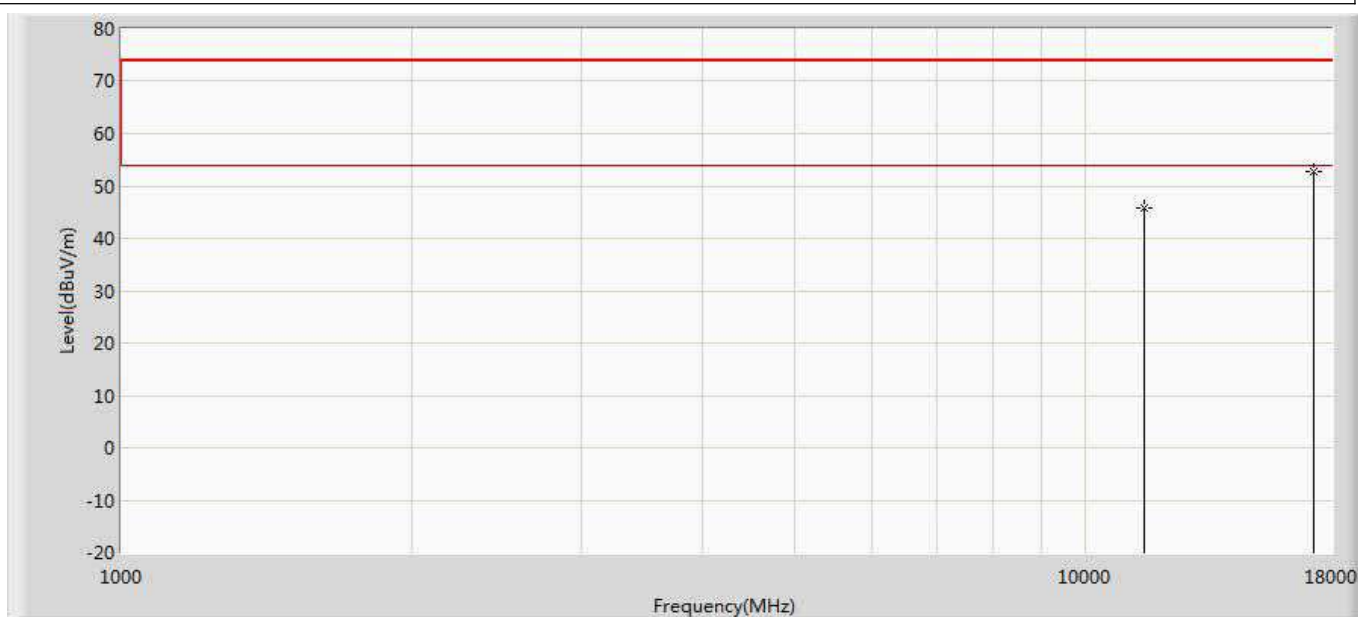


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11490.000	45.059	35.808	-28.941	74.000	9.250	0	0	PK
2	*	17235.000	53.825	33.497	-20.175	74.000	20.328	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 266
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5745MHz by 11n(20MHz) MIMO	

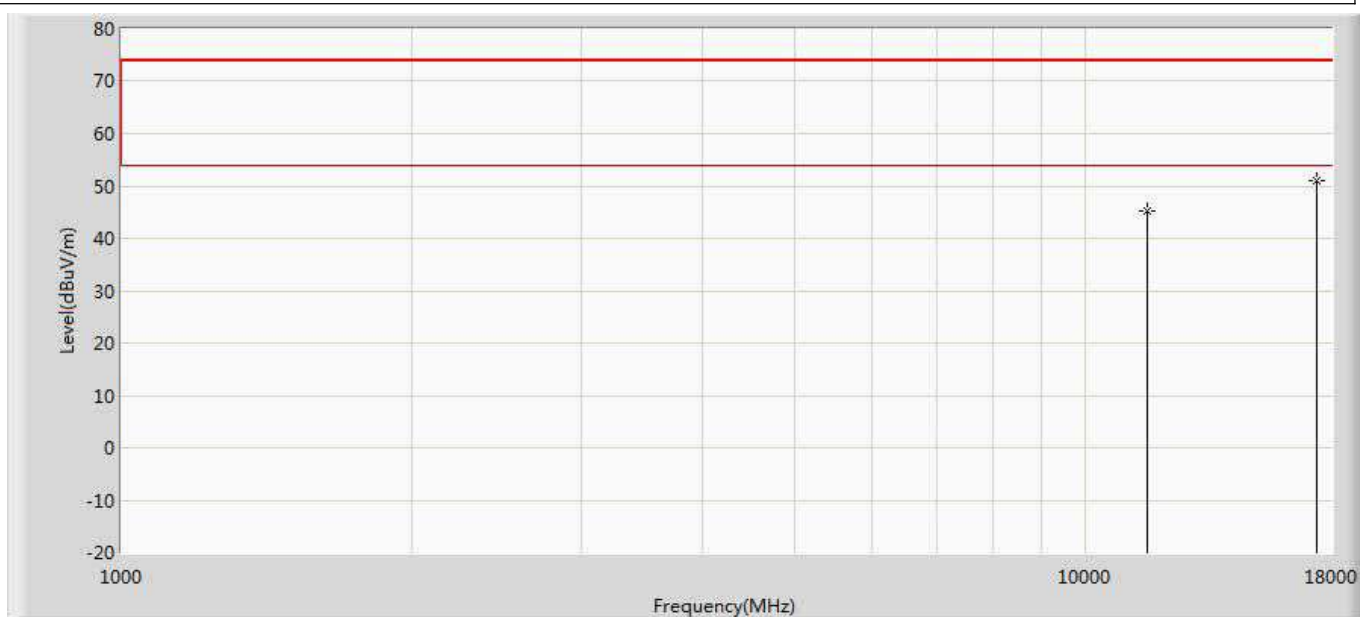


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11490.000	45.729	36.478	-28.271	74.000	9.250	0	0	PK
2	*	17235.000	52.843	32.515	-21.157	74.000	20.328	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 267
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:15
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5785MHz by 11n(20MHz) MIMO	

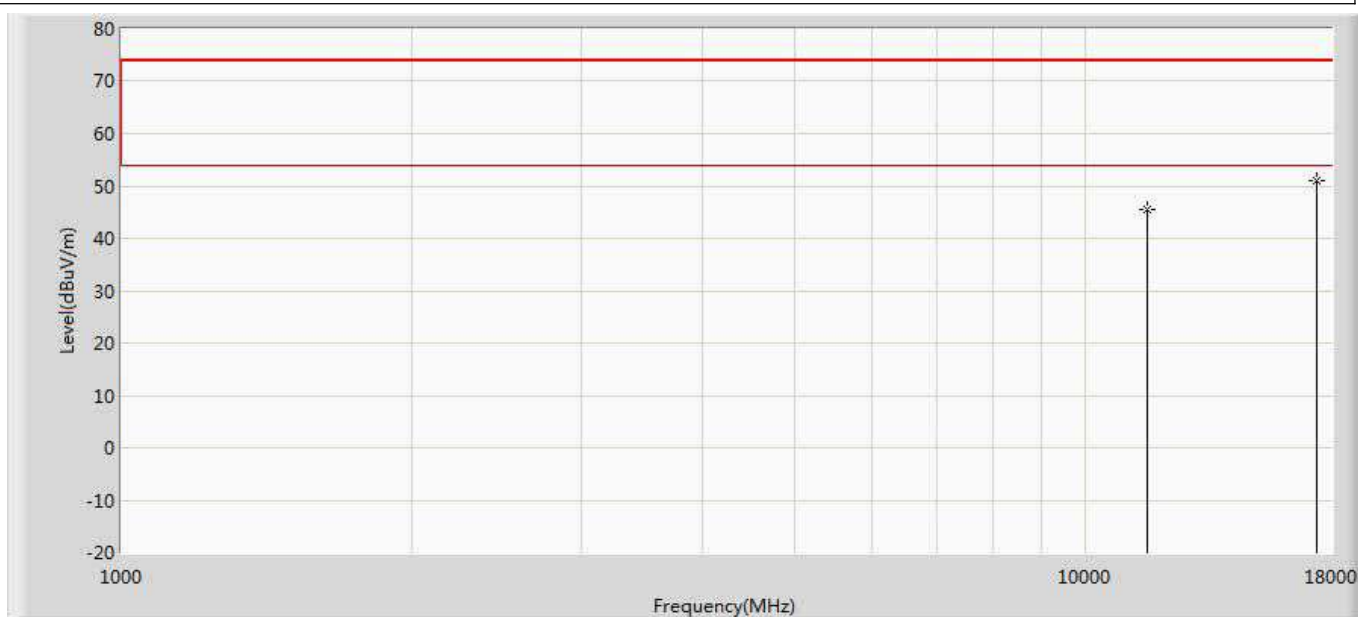


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11570.000	45.081	35.342	-28.919	74.000	9.740	0	0	PK
2	*	17355.000	50.901	32.452	-23.099	74.000	18.448	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 268
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:15
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5785MHz by 11n(20MHz) MIMO	

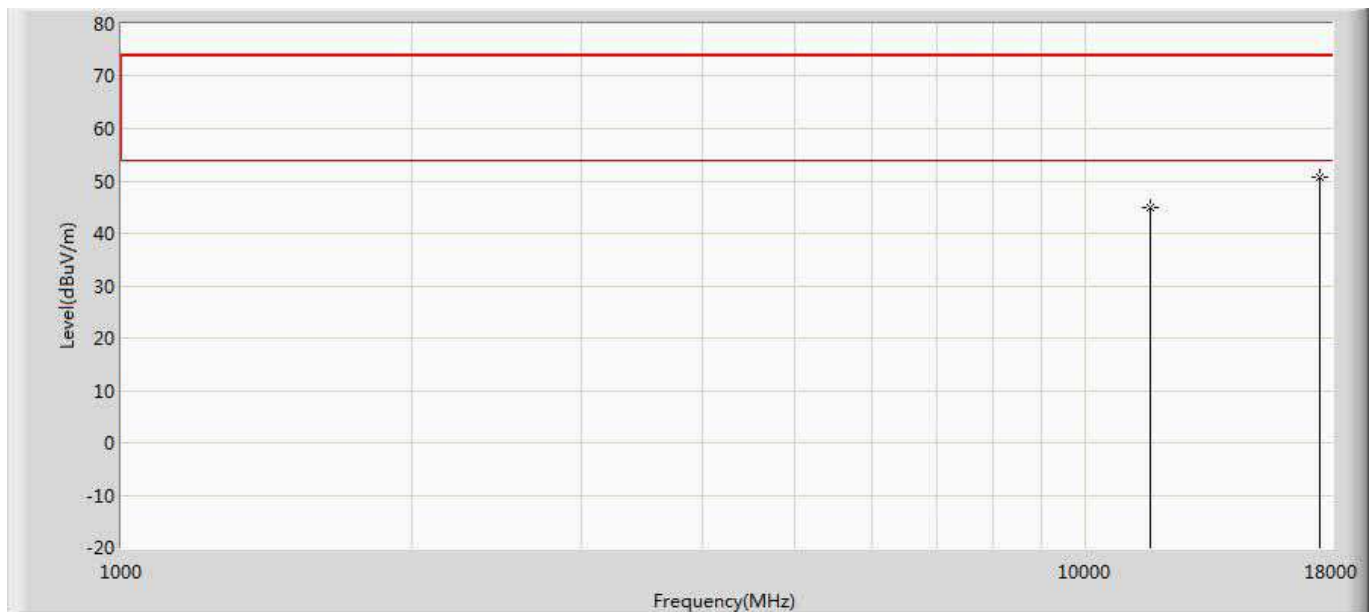


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11570.000	45.640	35.901	-28.360	74.000	9.740	0	0	PK
2	*	17355.000	50.887	32.438	-23.113	74.000	18.448	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 269
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:15
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5825MHz by 11n(20MHz) MIMO	

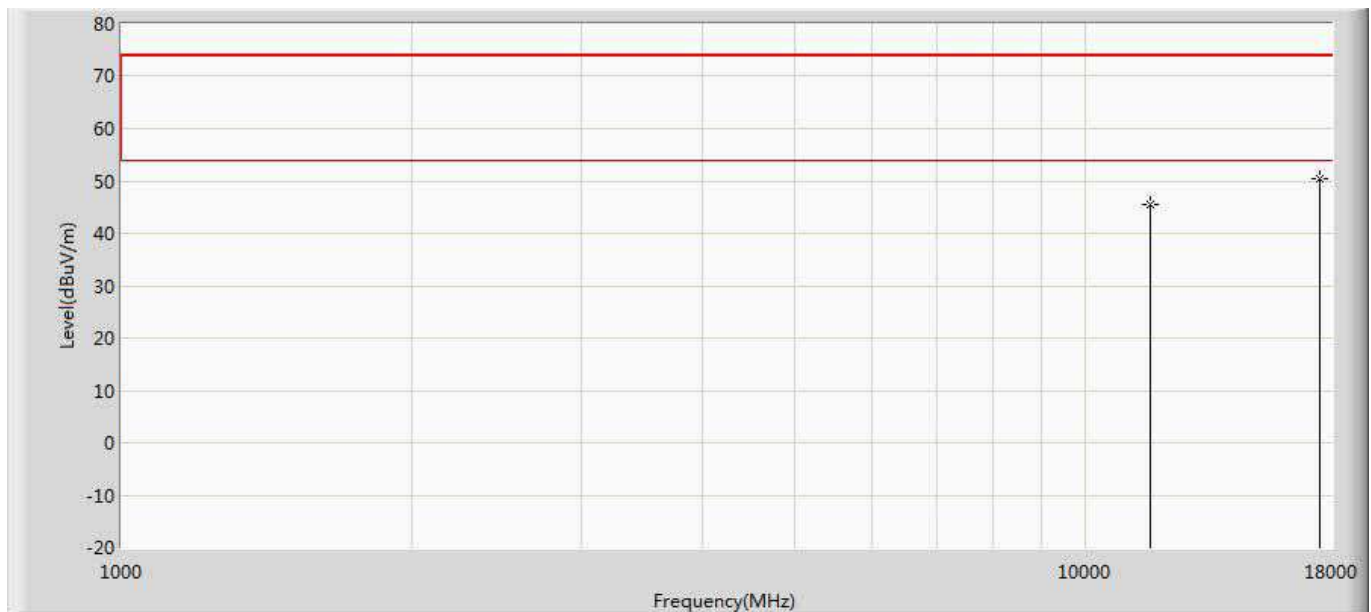


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11650.000	44.892	34.858	-29.108	74.000	10.034	0	0	PK
2	*	17475.000	50.592	33.297	-23.408	74.000	17.294	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 270
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:15
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 2: Transmit at 5825MHz by 11n(20MHz) MIMO	

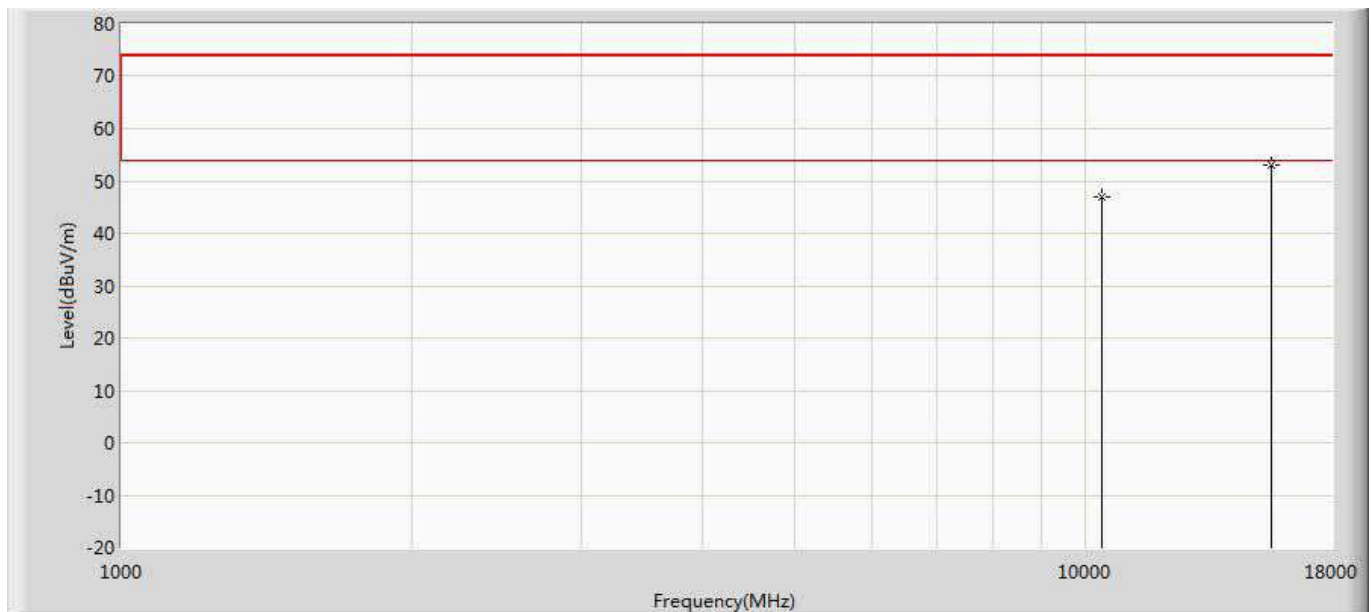


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11650.000	45.378	35.344	-28.622	74.000	10.034	0	0	PK
2	*	17475.000	50.562	33.267	-23.438	74.000	17.294	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 271
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:15
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 5190MHz by 11n(40MHz) MIMO	

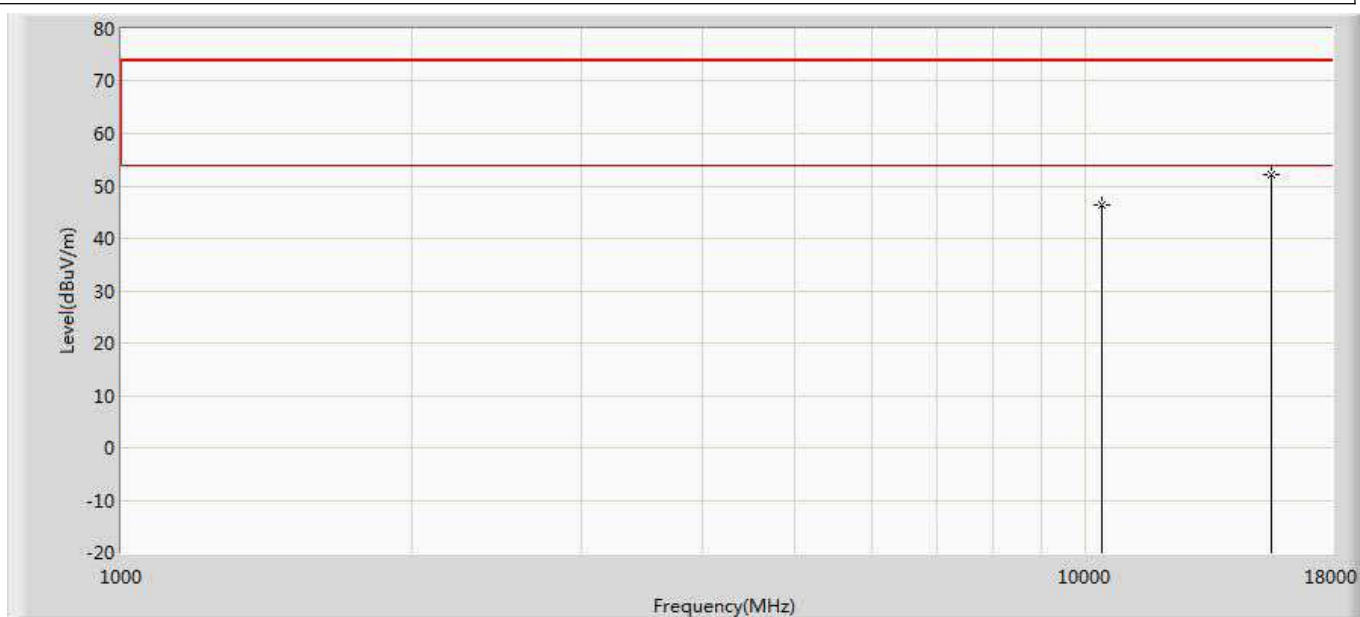


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10380.000	46.819	37.282	-27.181	74.000	9.537	0	0	PK
2	*	15570.000	53.149	34.601	-20.851	74.000	18.548	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 272
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 5190MHz by 11n(40MHz) MIMO	

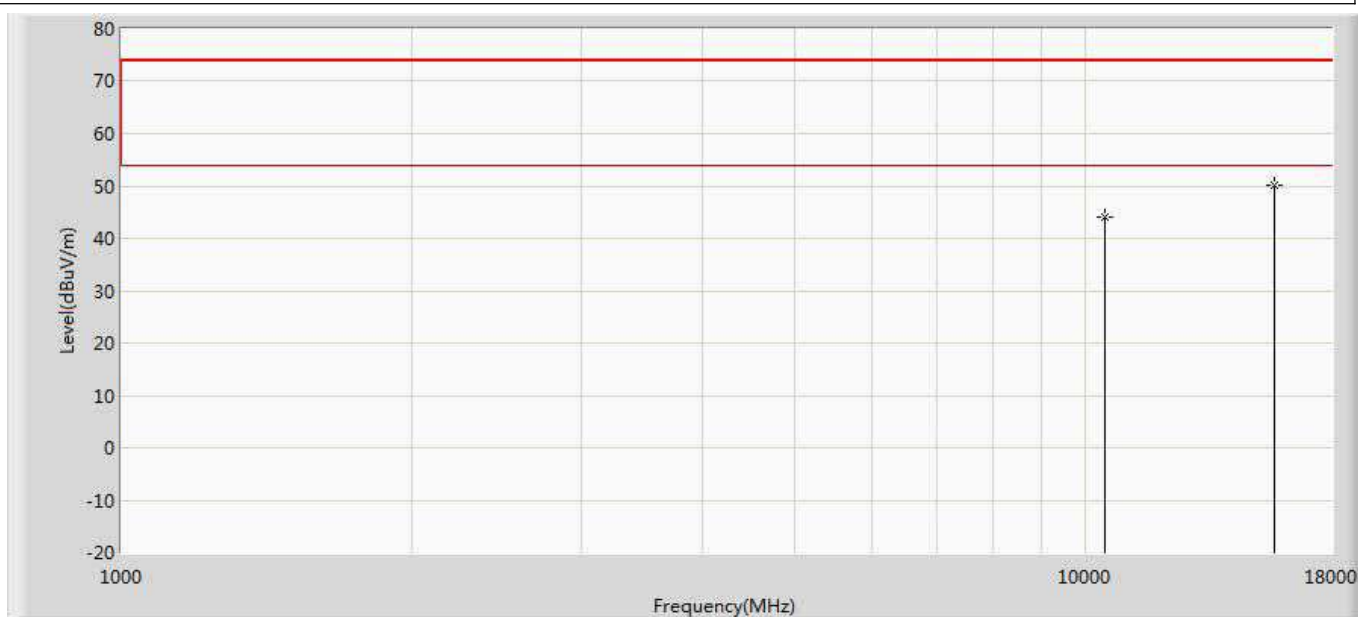


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10380.000	46.242	36.705	-27.758	74.000	9.537	0	0	PK
2	*	15570.000	52.207	33.659	-21.793	74.000	18.548	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 273
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 5230MHz by 11n(40MHz) MIMO	

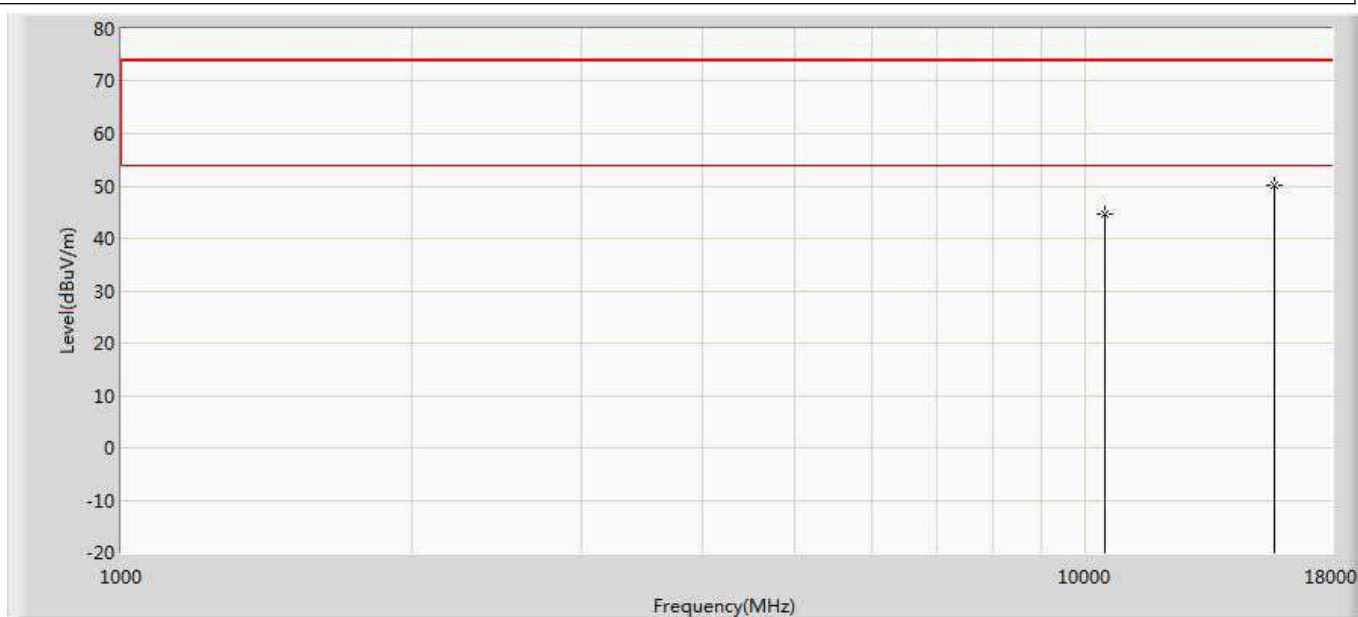


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10460.000	43.939	34.770	-30.061	74.000	9.169	0	0	PK
2	*	15690.000	50.006	32.773	-23.994	74.000	17.233	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 274
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 5230MHz by 11n(40MHz) MIMO	

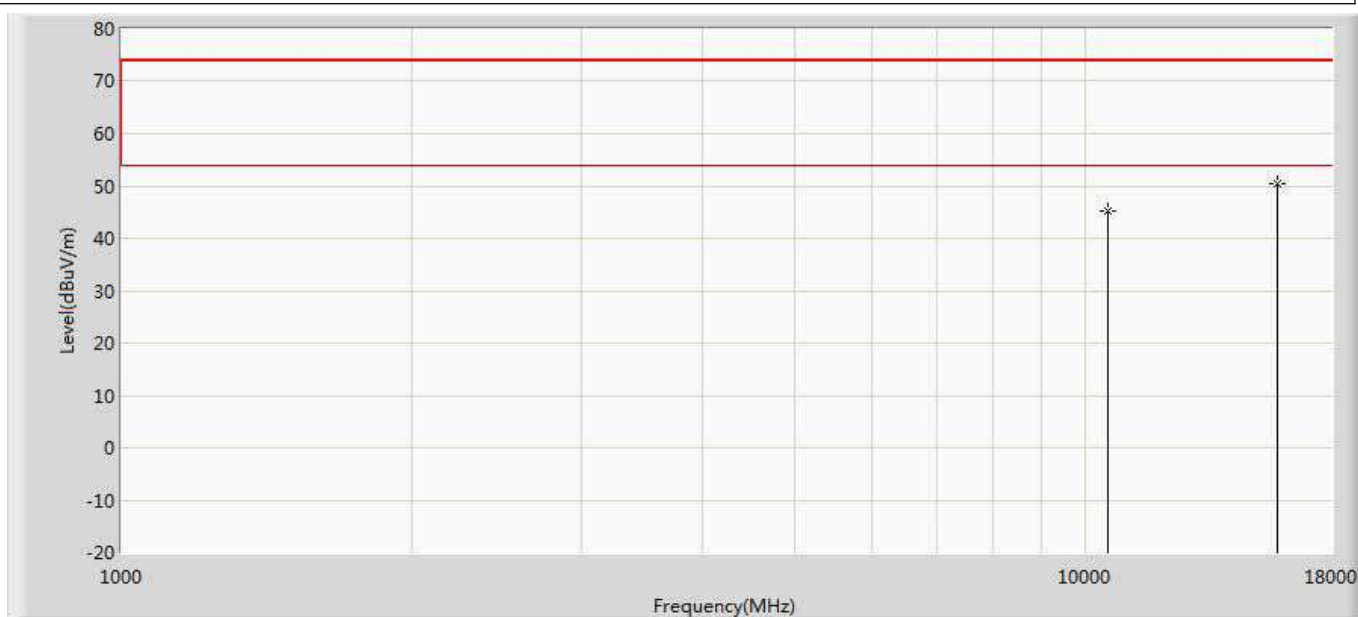


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10460.000	44.495	35.326	-29.505	74.000	9.169	0	0	PK
2	*	15690.000	50.044	32.811	-23.956	74.000	17.233	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 275
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 5270MHz by 11n(40MHz) MIMO	

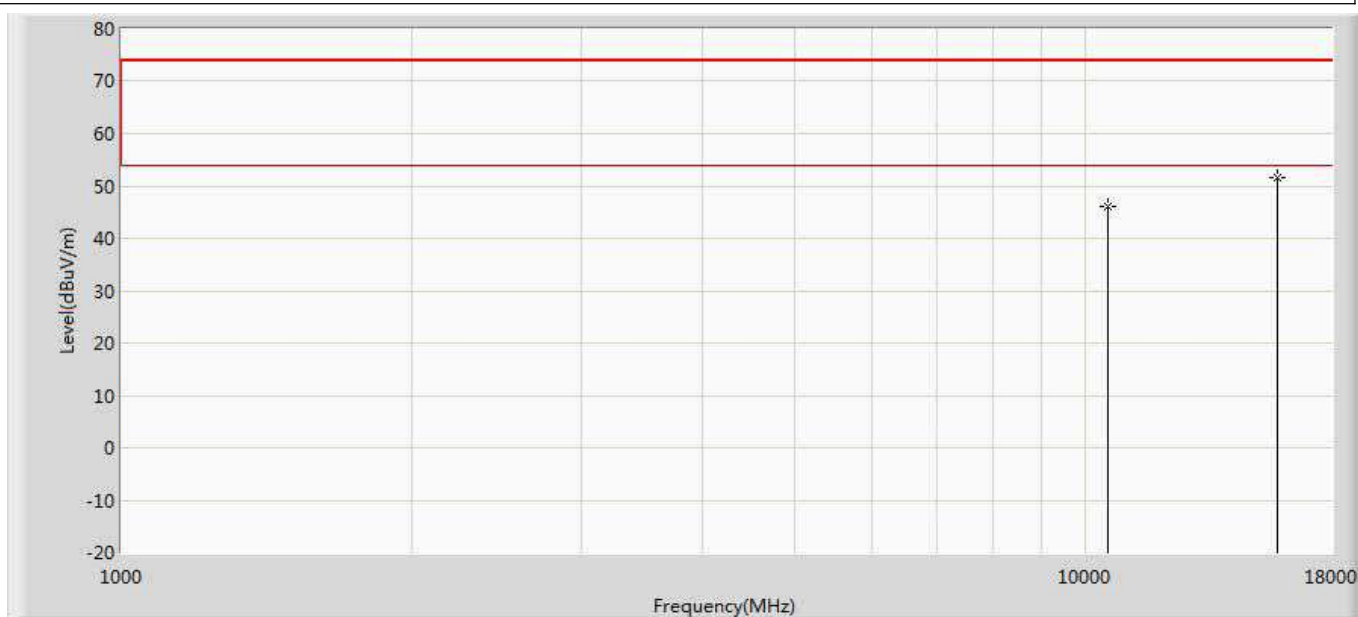


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10540.000	45.195	36.588	-28.805	74.000	8.607	0	0	PK
2	*	15810.000	50.293	33.480	-23.707	74.000	16.813	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 276
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 5270MHz by 11n(40MHz) MIMO	

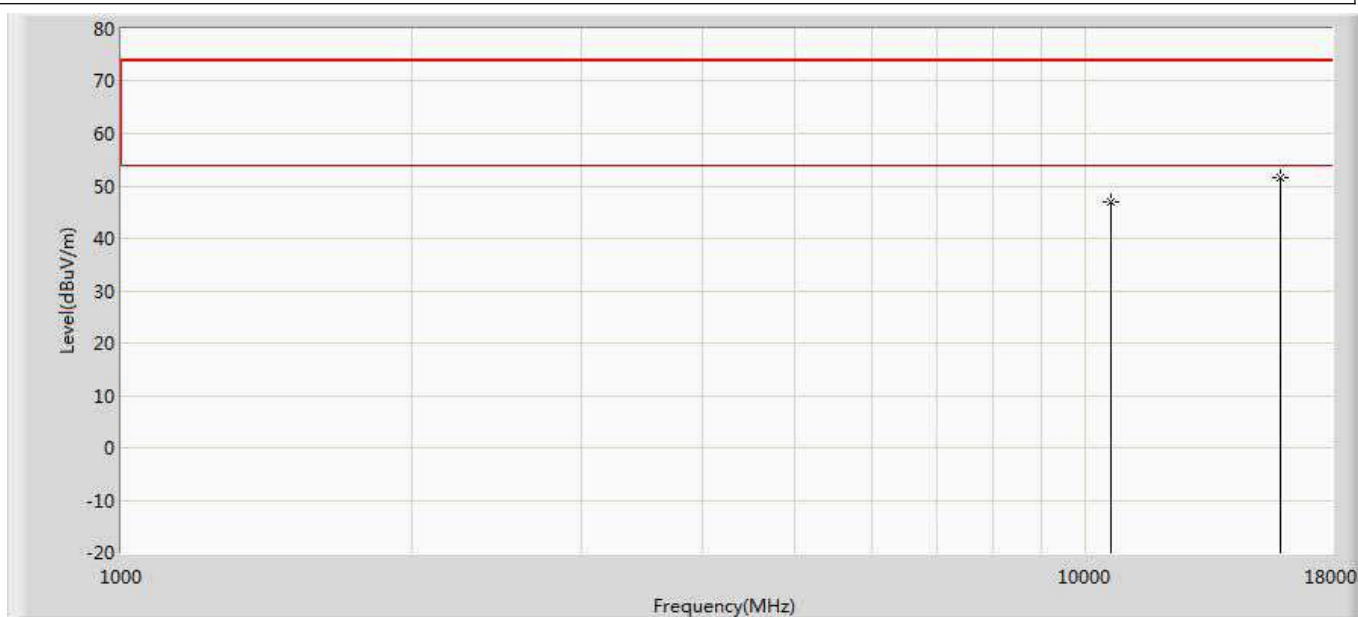


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10540.000	46.006	37.399	-27.994	74.000	8.607	0	0	PK
2	*	15810.000	51.475	34.662	-22.525	74.000	16.813	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 277
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 5310MHz by 11n(40MHz) MIMO	

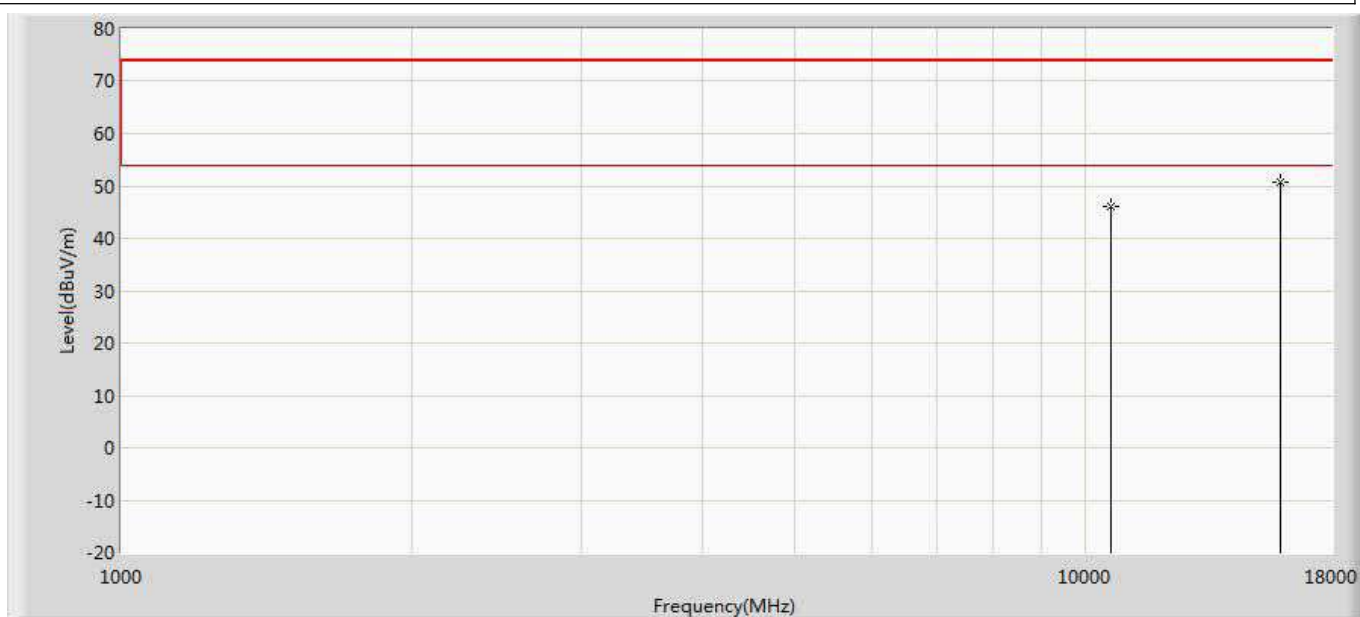


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10620.000	46.918	37.970	-27.082	74.000	8.948	0	0	PK
2	*	15930.000	51.548	34.334	-22.452	74.000	17.214	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 278
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:16
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 5310MHz by 11n(40MHz) MIMO	

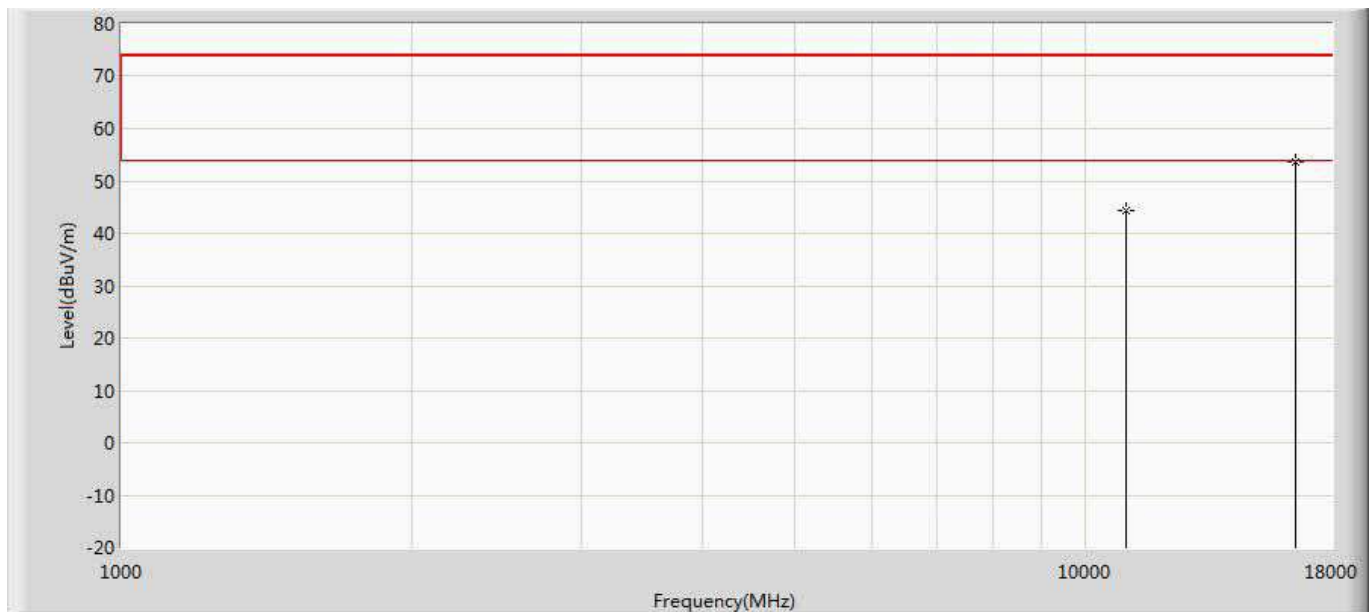


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10620.000	46.030	37.082	-27.970	74.000	8.948	0	0	PK
2	*	15930.000	50.783	33.569	-23.217	74.000	17.214	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 279
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:17
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 5510MHz by 11n(40MHz) MIMO	

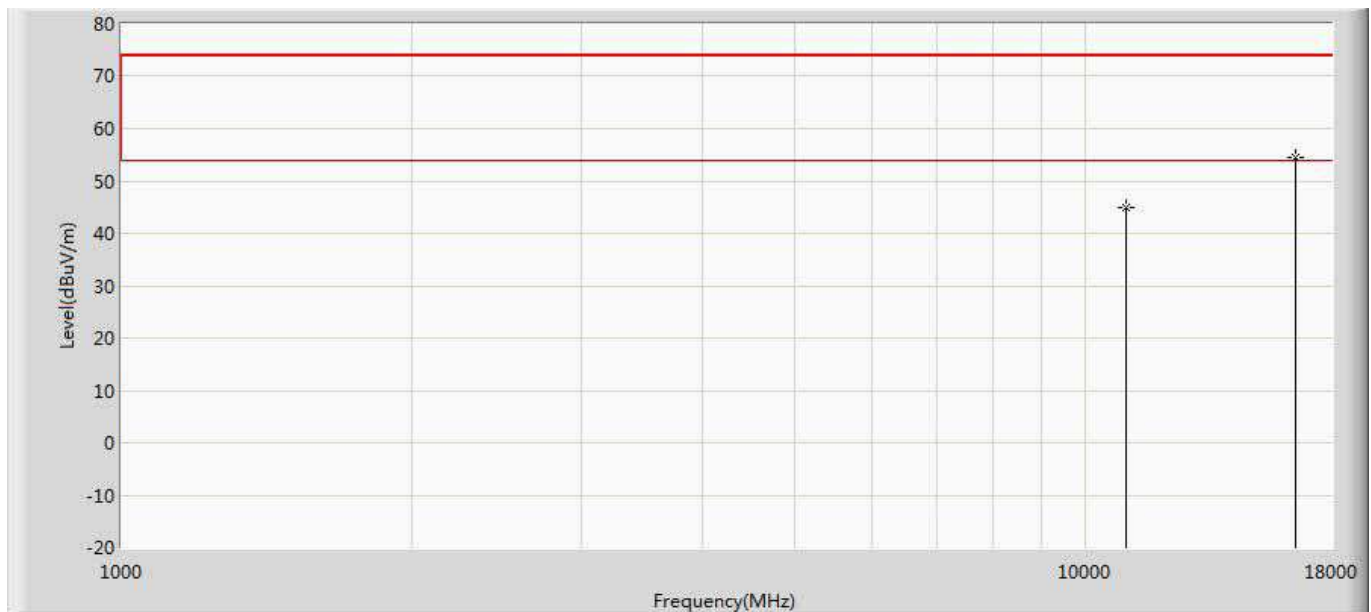


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11020.000	44.221	35.190	-29.779	74.000	9.031	0	0	PK
2	*	16530.000	53.575	34.593	-20.425	74.000	18.982	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 280
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:17
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 5510MHz by 11n(40MHz) MIMO	

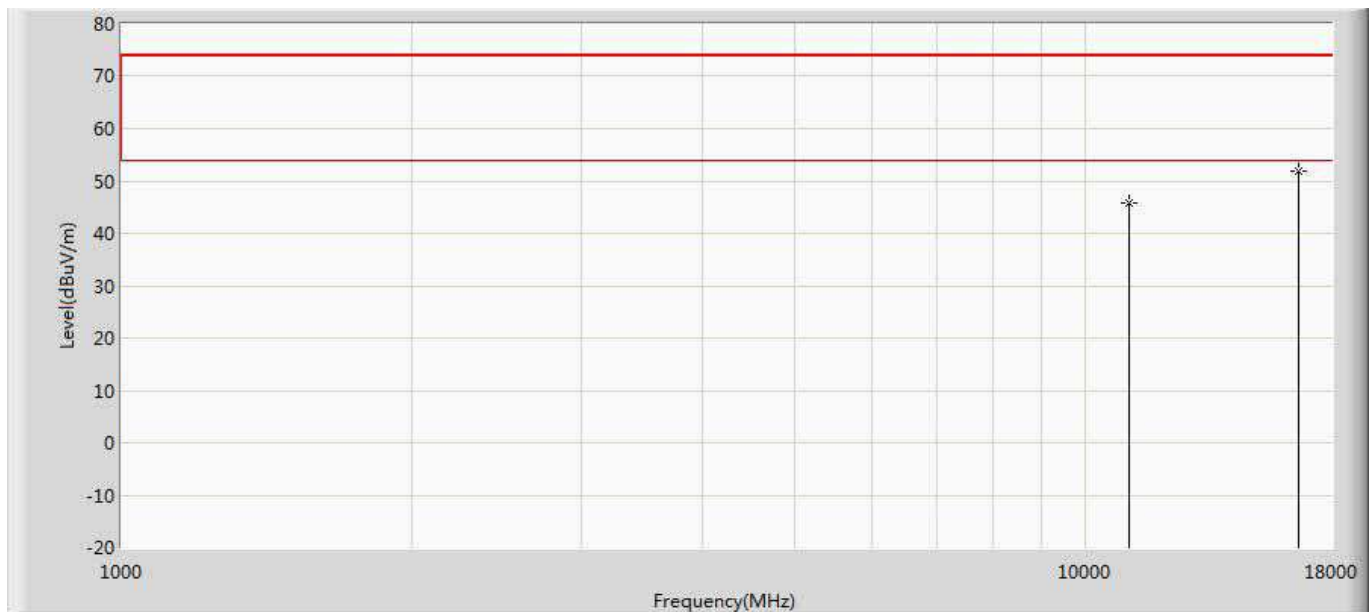


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11020.000	44.800	35.769	-29.200	74.000	9.031	0	0	PK
2	*	16530.000	54.495	35.513	-19.505	74.000	18.982	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 281
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:17
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 5550MHz by 11n(40MHz) MIMO	

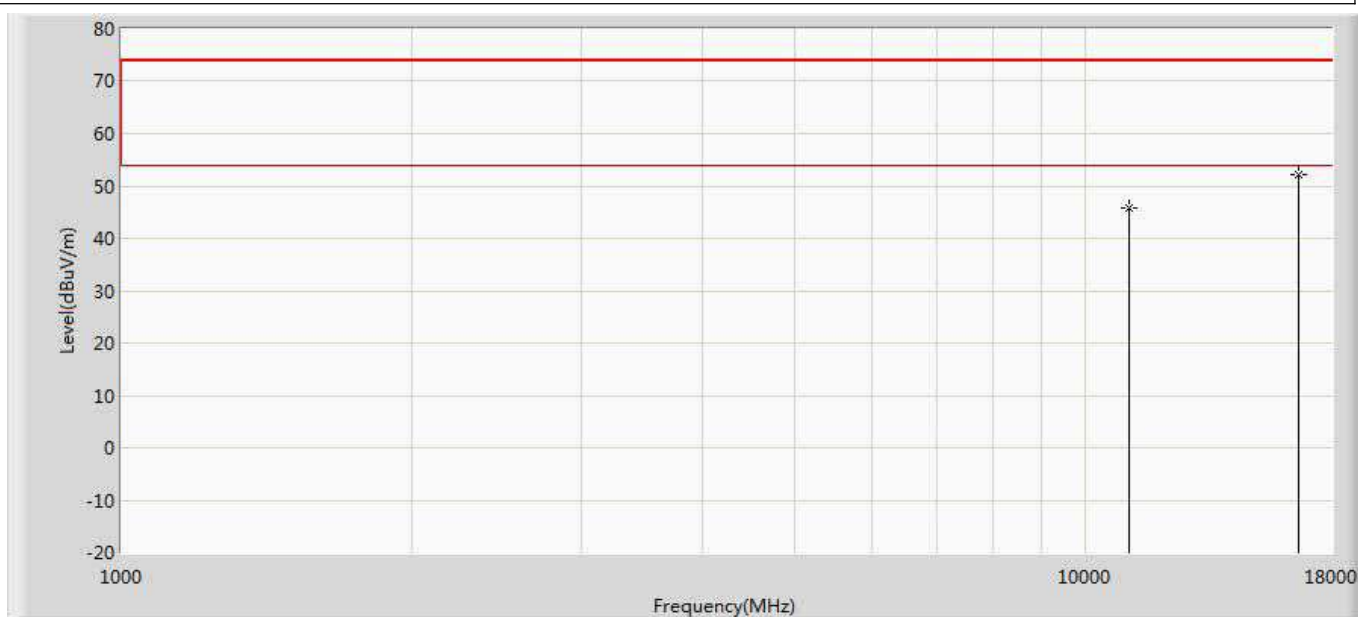


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11100.000	45.745	35.881	-28.255	74.000	9.864	0	0	PK
2	*	16650.000	51.753	34.429	-22.247	74.000	17.325	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 282
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:17
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 5550MHz by 11n(40MHz) MIMO	

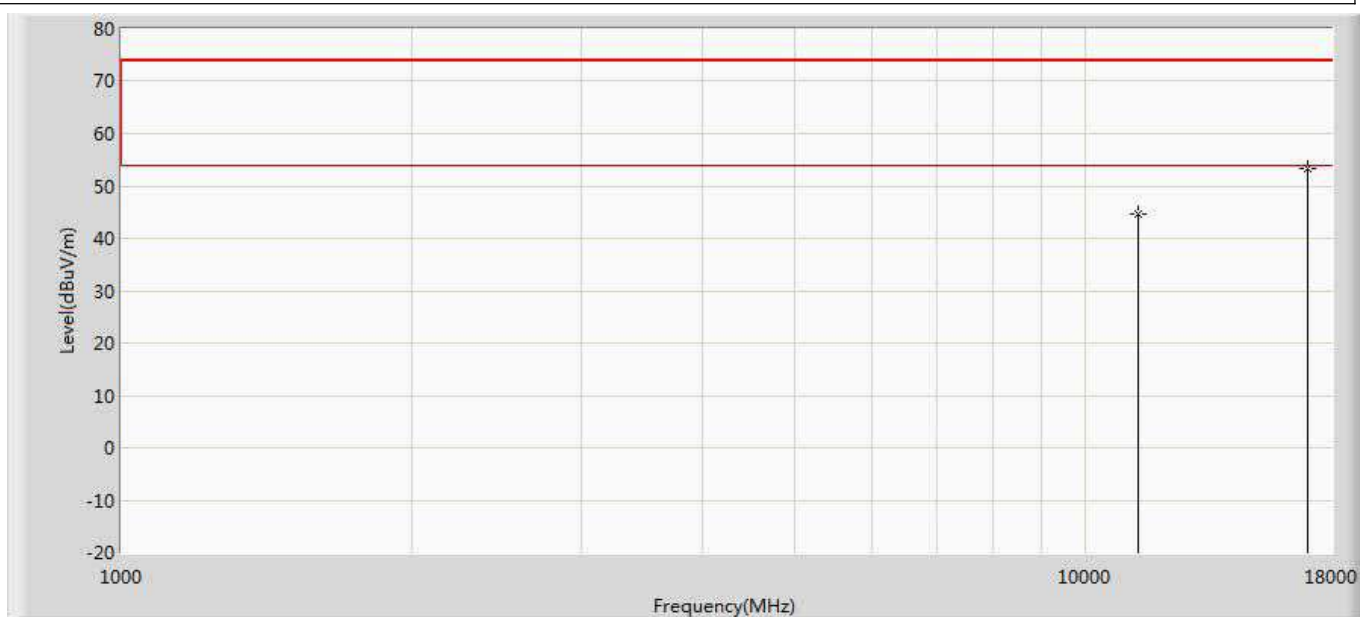


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11100.000	45.726	35.862	-28.274	74.000	9.864	0	0	PK
2	*	16650.000	52.127	34.803	-21.873	74.000	17.325	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 283
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:17
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 5670MHz by 11n(40MHz) MIMO	

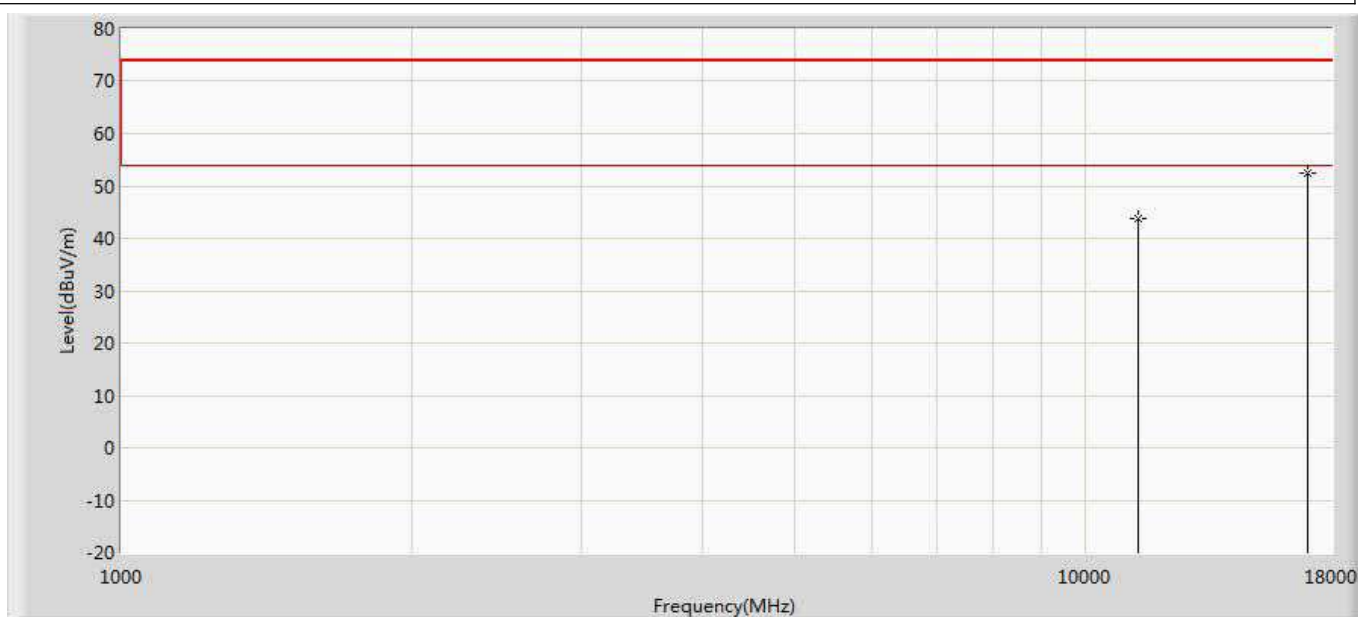


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11340.000	44.525	35.327	-29.475	74.000	9.197	0	0	PK
2	*	17010.000	53.426	34.470	-20.574	74.000	18.956	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 284
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:17
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 5670MHz by 11n(40MHz) MIMO	

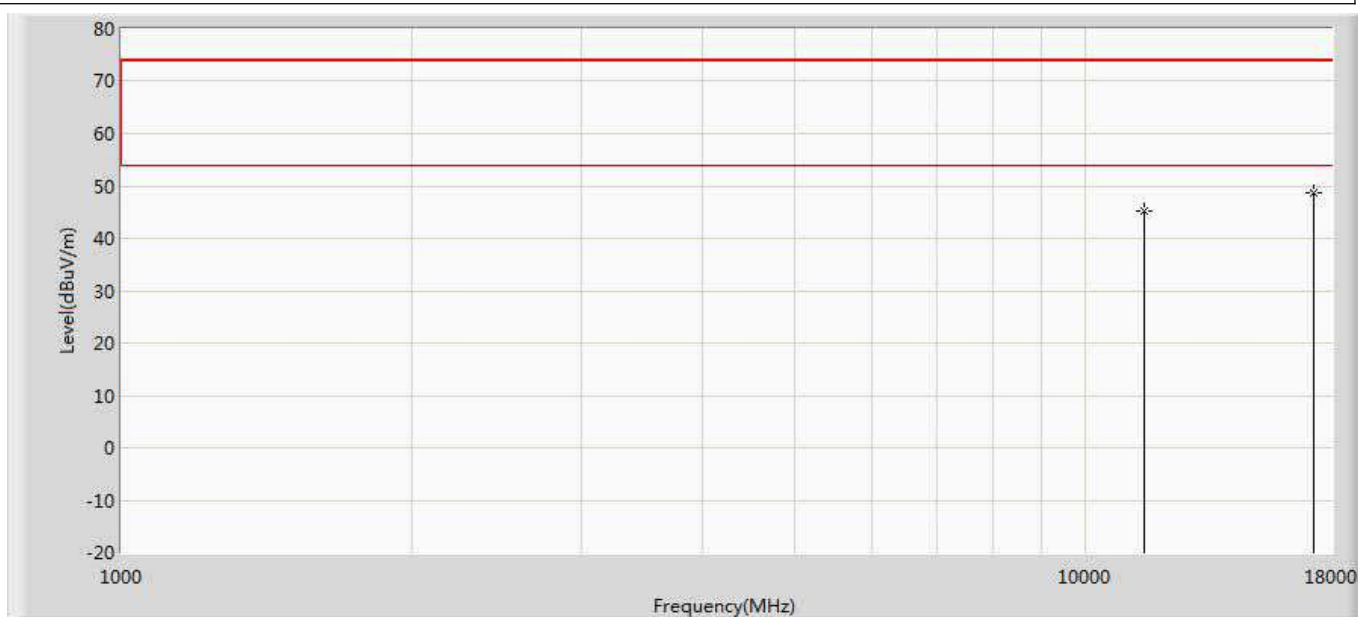


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11340.000	43.637	34.439	-30.363	74.000	9.197	0	0	PK
2	*	17010.000	52.339	33.383	-21.661	74.000	18.956	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 285
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:17
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 5755MHz by 11n(40MHz) MIMO	

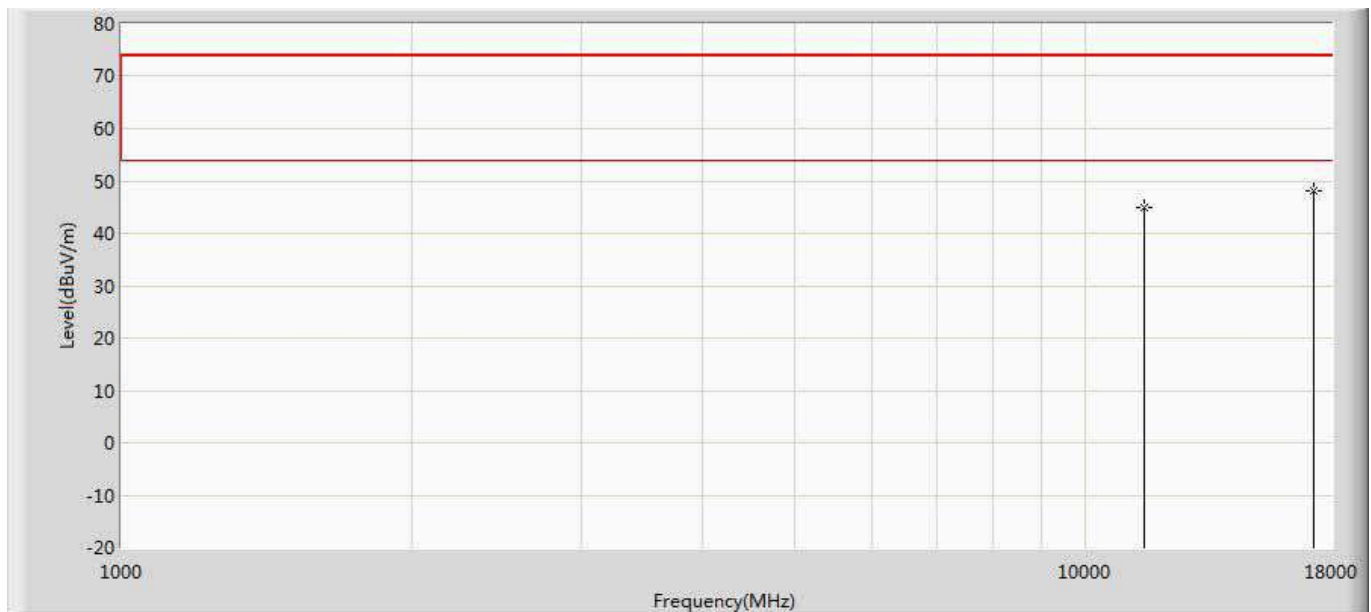


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11510.000	45.165	35.892	-28.835	74.000	9.272	0	0	PK
2	*	17265.000	48.602	30.574	-25.398	74.000	18.029	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 286
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:17
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 5755MHz by 11n(40MHz) MIMO	

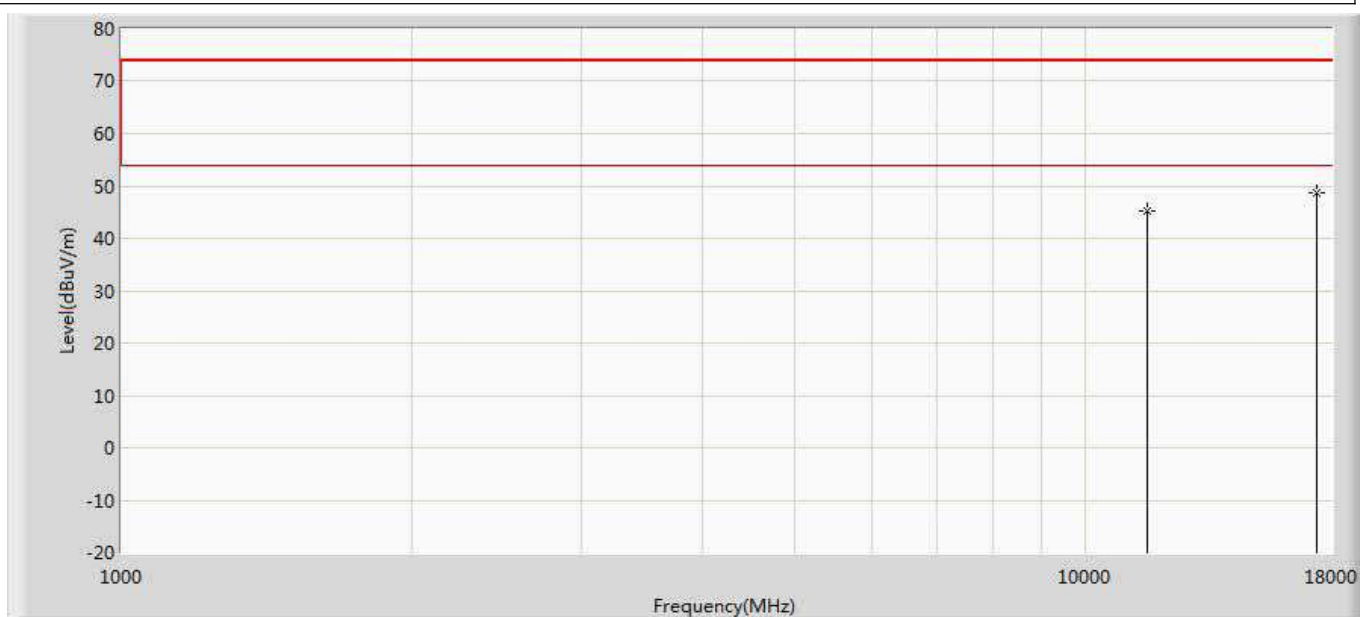


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11510.000	45.053	35.780	-28.947	74.000	9.272	0	0	PK
2	*	17265.000	48.019	29.991	-25.981	74.000	18.029	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 287
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 5795MHz by 11n(40MHz) MIMO	

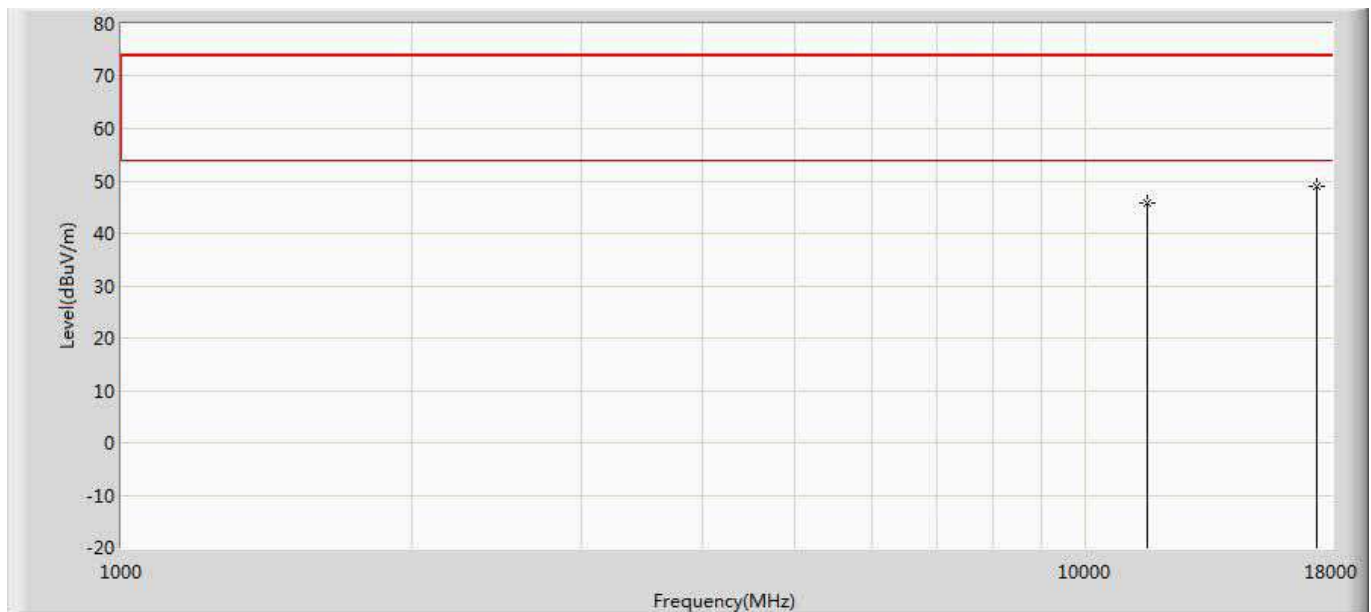


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11590.000	45.237	35.182	-28.763	74.000	10.055	0	0	PK
2	*	17385.000	48.720	32.198	-25.280	74.000	16.522	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 288
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 3: Transmit at 5795MHz by 11n(40MHz) MIMO	

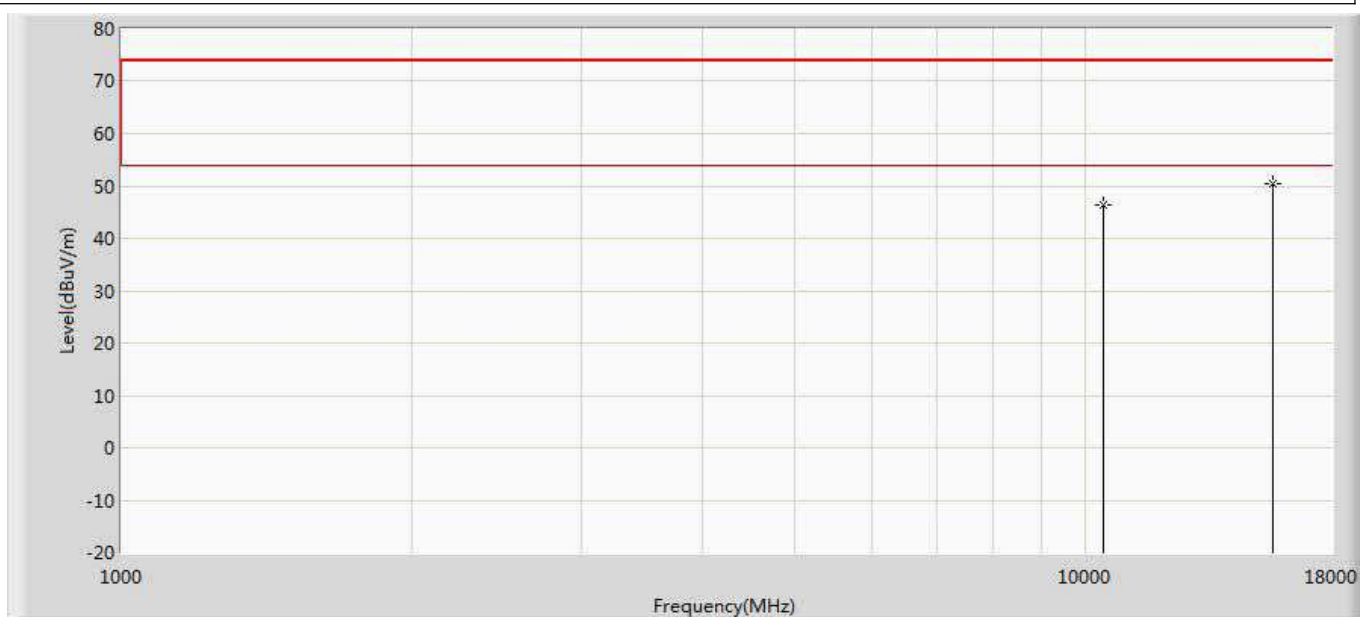


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11590.000	45.742	35.687	-28.258	74.000	10.055	0	0	PK
2	*	17385.000	48.977	32.455	-25.023	74.000	16.522	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 289
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 6: Transmit at 5210MHz by 11n(40MHz) MIMO	

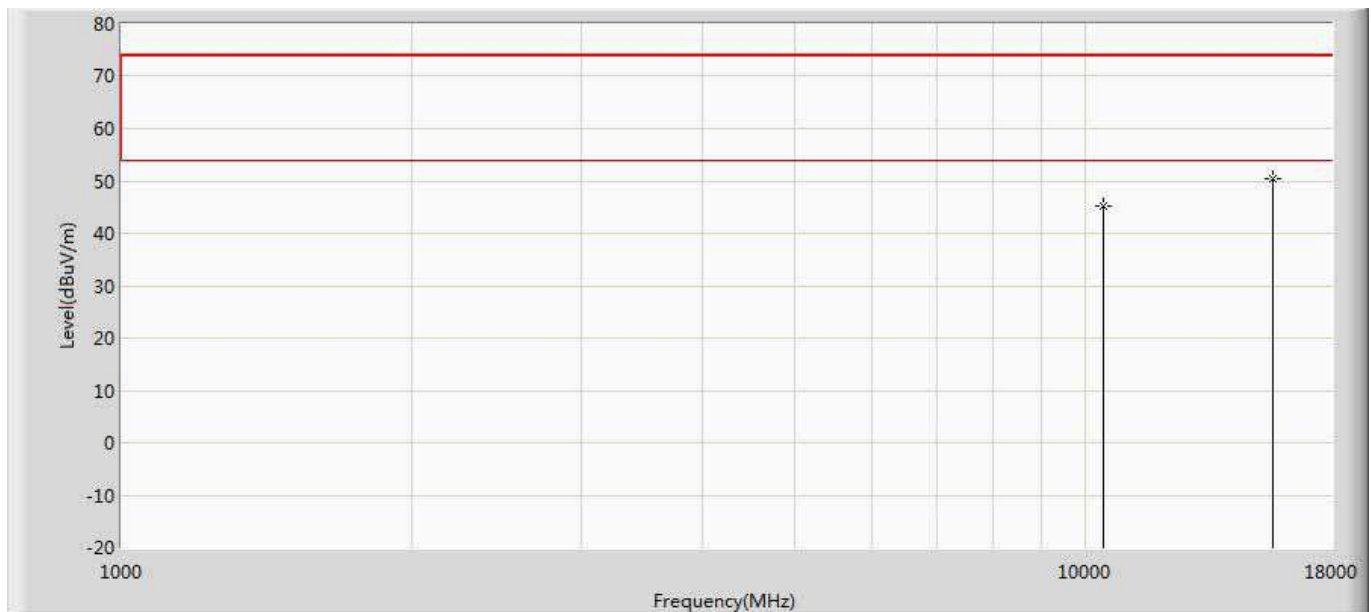


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10420.000	46.479	37.340	-27.521	74.000	9.139	0	0	PK
2	*	15630.000	50.349	33.969	-23.651	74.000	16.380	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 290
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 6: Transmit at 5210MHz by 11ac(80MHz) MIMO	

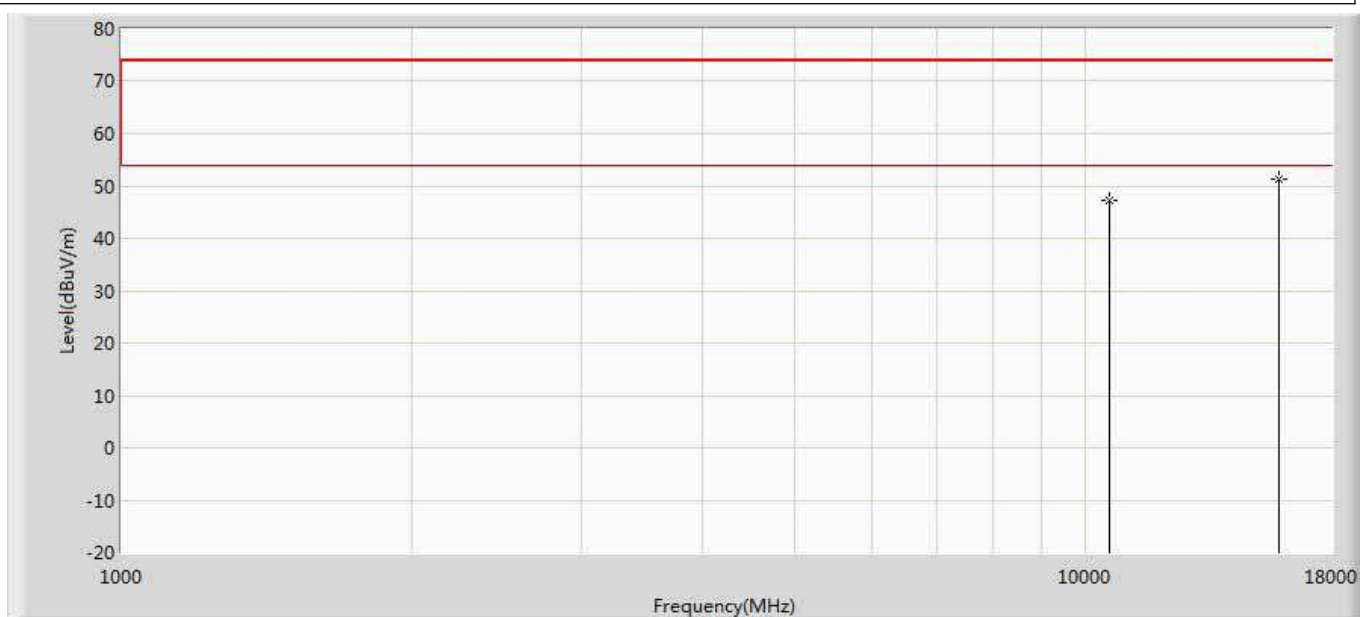


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10420.000	45.335	36.196	-28.665	74.000	9.139	0	0	PK
2	*	15630.000	50.454	34.074	-23.546	74.000	16.380	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 291
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 6: Transmit at 5290MHz by 11ac(80MHz) MIMO	

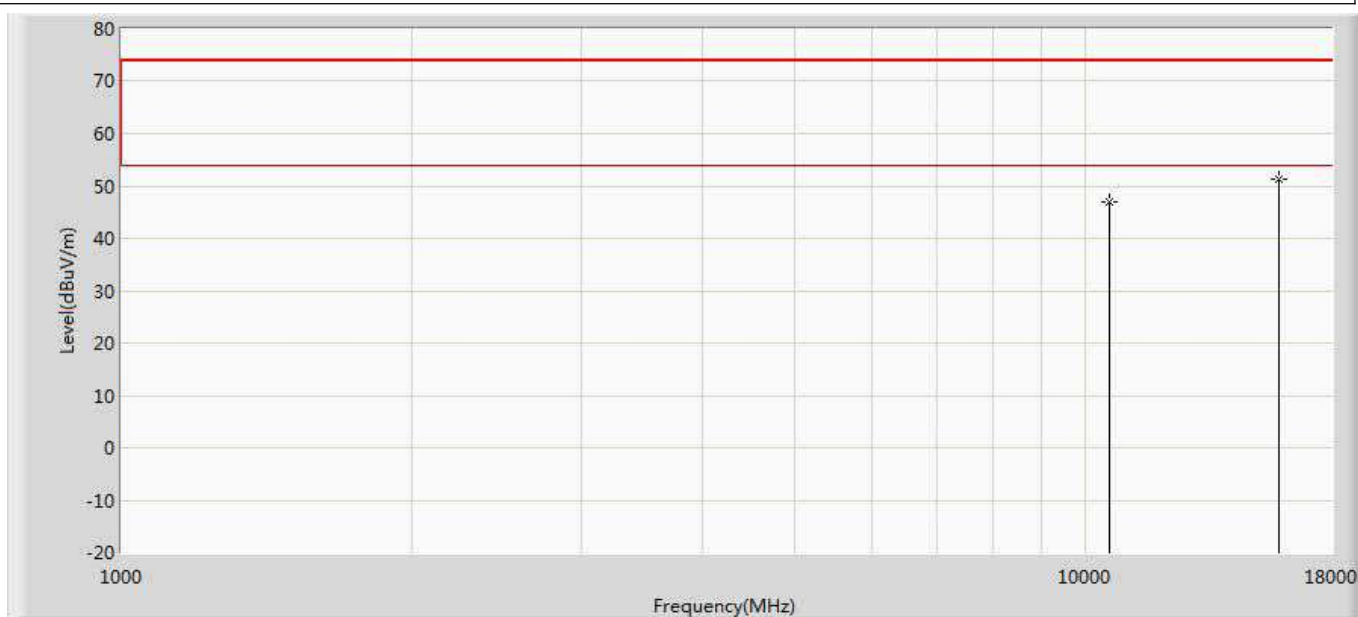


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10580.000	47.220	37.422	-26.780	74.000	9.798	0	0	PK
2	*	15870.000	51.420	33.491	-22.580	74.000	17.929	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 292
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 6: Transmit at 5290MHz by 11ac(80MHz) MIMO	

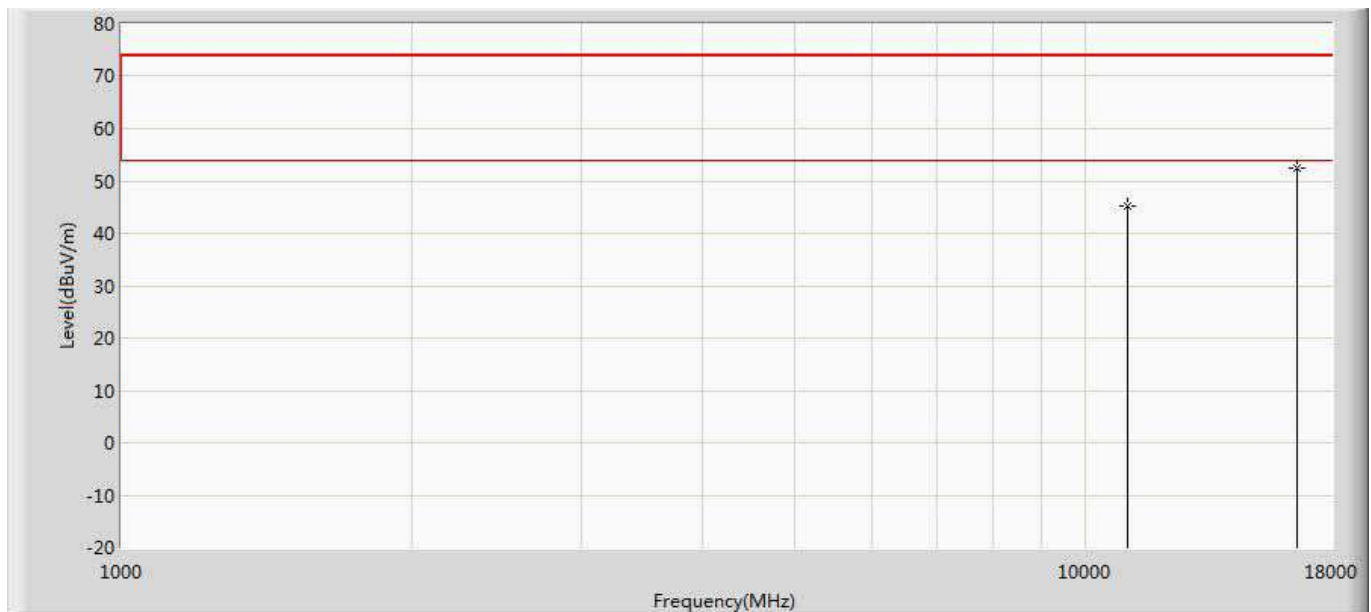


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		10580.000	46.851	37.053	-27.149	74.000	9.798	0	0	PK
2	*	15870.000	51.260	33.331	-22.740	74.000	17.929	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 293
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 6: Transmit at 5530MHz by 11ac(80MHz) MIMO	

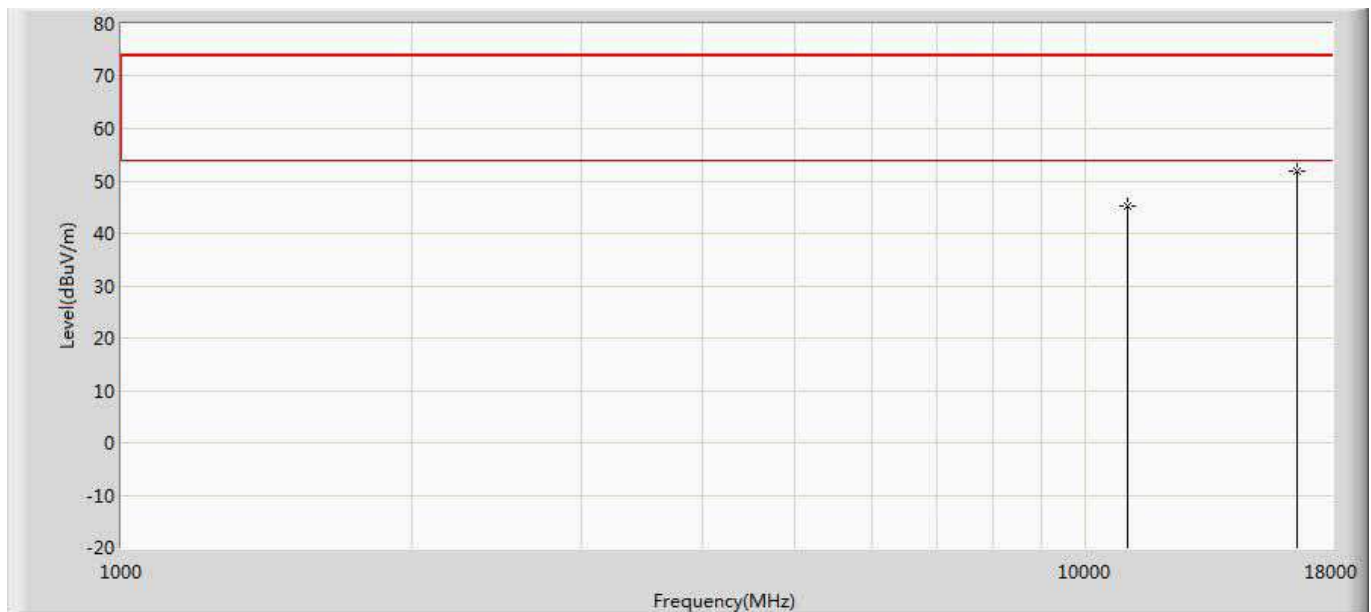


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11060.000	45.325	35.694	-28.675	74.000	9.631	0	0	PK
2	*	16590.000	52.358	34.579	-21.642	74.000	17.779	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 294
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 6: Transmit at 5530MHz by 11ac(80MHz) MIMO	

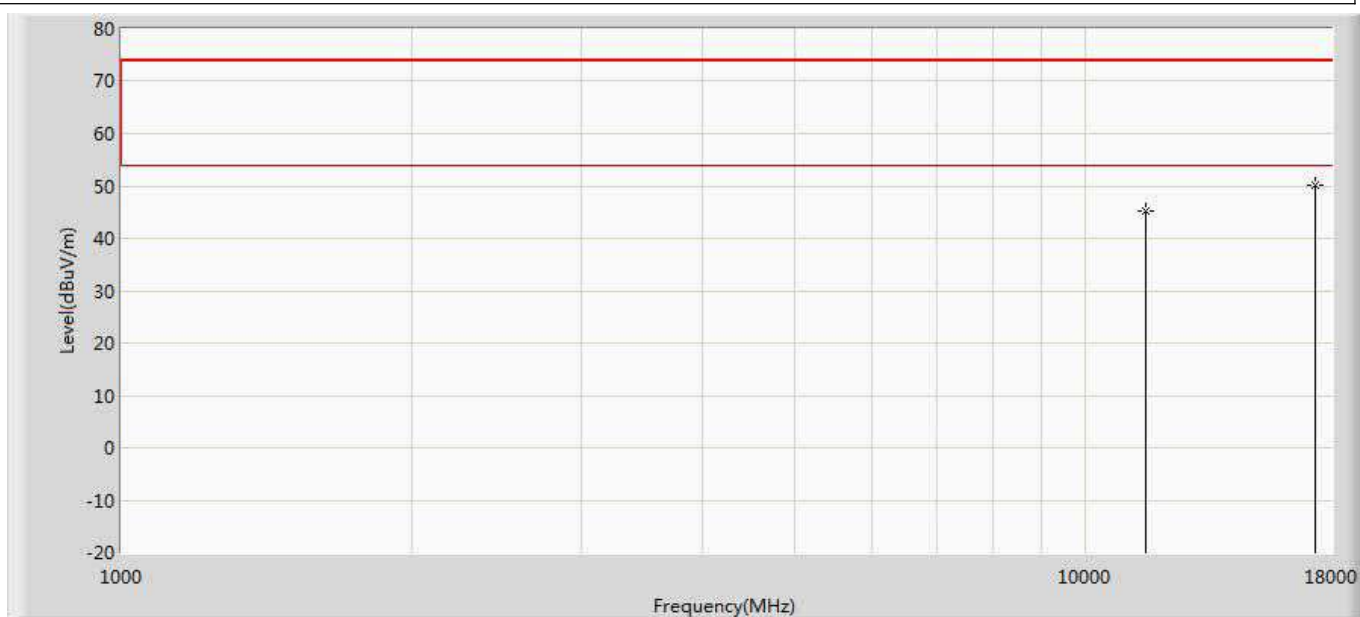


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11060.000	45.101	35.470	-28.899	74.000	9.631	0	0	PK
2	*	16590.000	51.816	34.037	-22.184	74.000	17.779	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 295
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 6: Transmit at 5775MHz by 11ac(80MHz) MIMO	

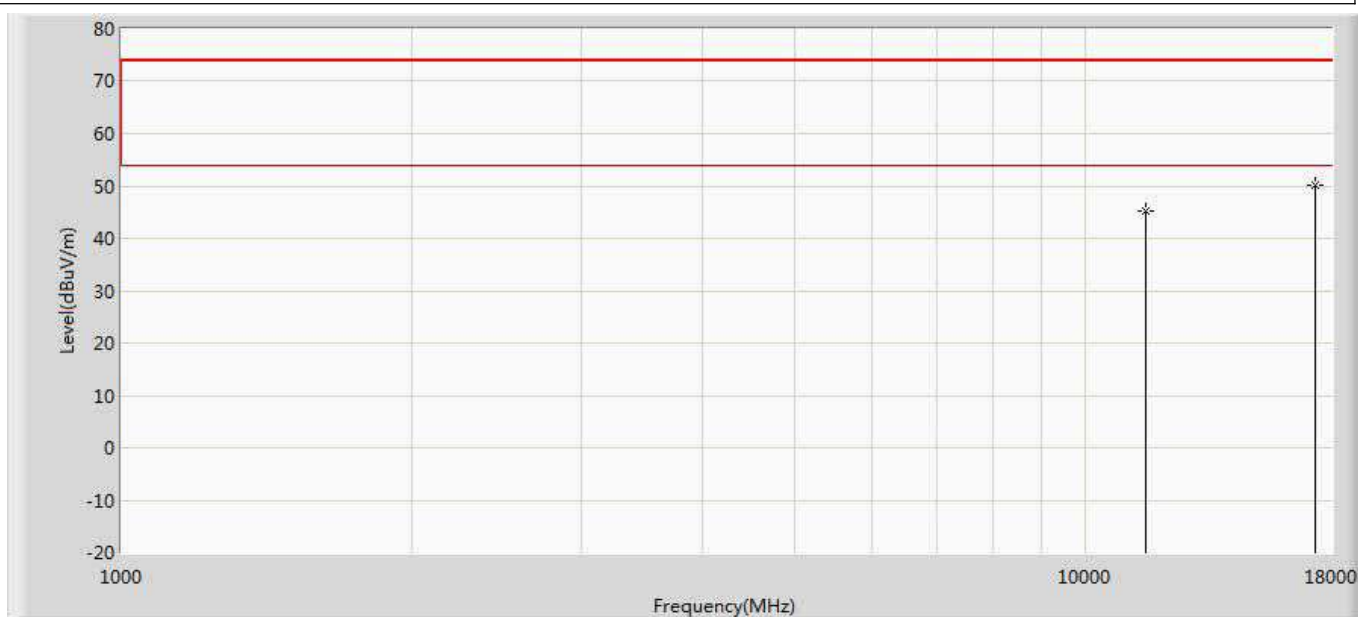


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11550.000	45.233	35.559	-28.767	74.000	9.674	0	0	PK
2	*	17325.000	50.197	31.164	-23.803	74.000	19.033	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Profile: 1912082R-15.407	Page No.: 296
Engineer: Simon	
Site: AC5	Time: 2019/03/26 - 11:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 6: Transmit at 5775MHz by 11ac(80MHz) MIMO	



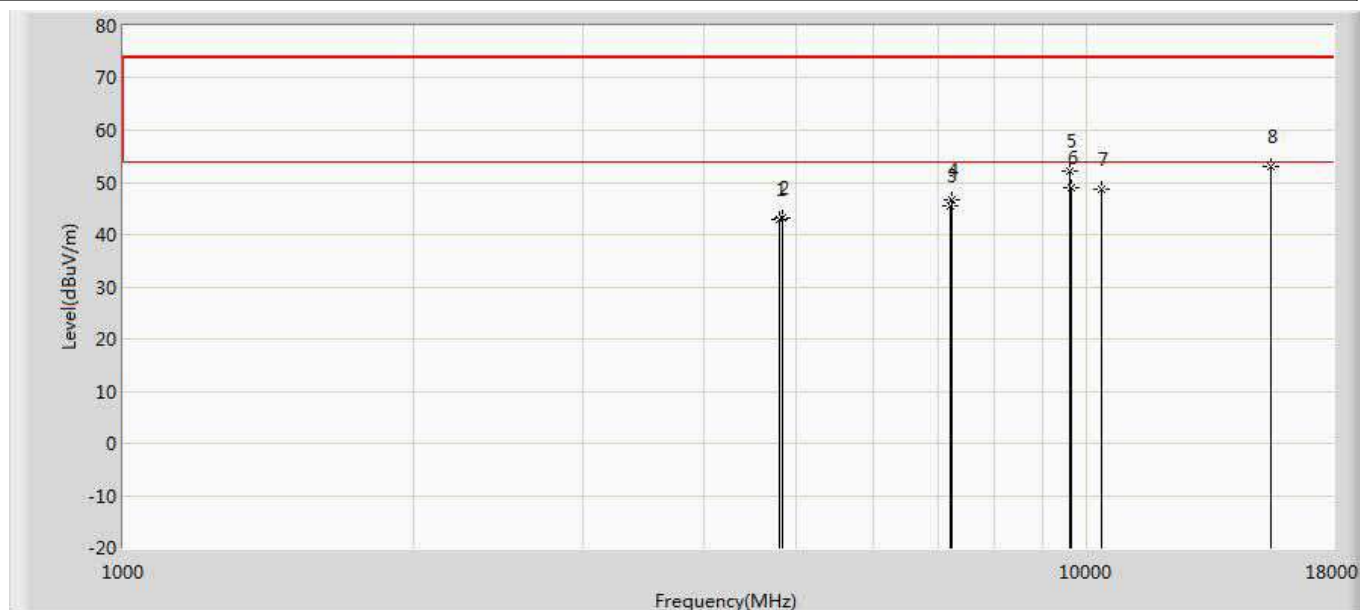
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1		11550.000	45.127	35.453	-28.873	74.000	9.674	0	0	PK
2	*	17325.000	50.018	30.985	-23.982	74.000	19.033	0	0	PK

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

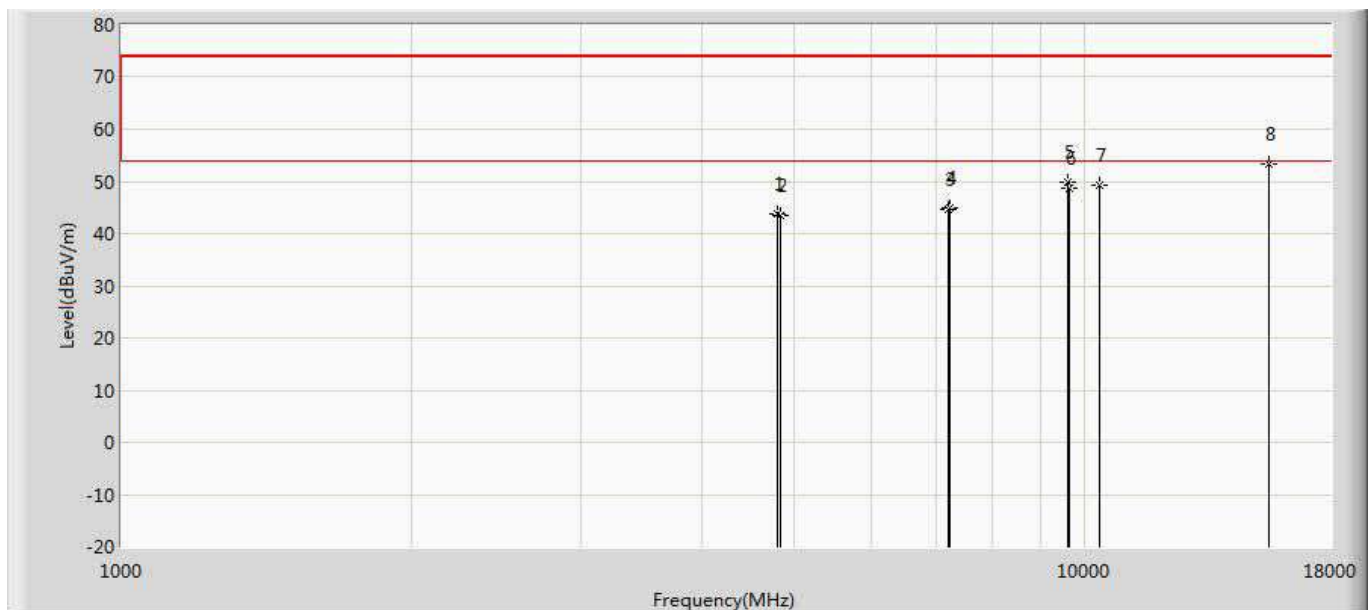
The worst case of Simultaneous Radiated Emission:

Site: AC5	Time: 2019/04/10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Transmit at 2402MHz by BT3.0&2412MHz by 2.4G WIFI&5180MHz by 5G WIFI	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	42.817	39.124	-31.183	74.000	3.693	PK
2		4824.000	43.257	39.965	-30.743	74.000	3.292	PK
3		7206.000	45.629	38.867	-28.371	74.000	6.762	PK
4		7236.000	46.634	39.266	-27.366	74.000	7.368	PK
5		9608.000	52.230	41.741	-21.770	74.000	10.489	PK
6		9648.000	48.881	37.697	-25.119	74.000	11.184	PK
7		10360.000	48.674	37.460	-25.326	74.000	11.214	PK
8	*	15540.000	53.057	36.297	-20.943	74.000	16.760	PK

Site: AC5	Time: 2019/04/10
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: Horn_3117_00167055(1-18GHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Transmit at 2402MHz by BT3.0&2412MHz by 2.4G WIFI&5180MHz by 5G WIFI	



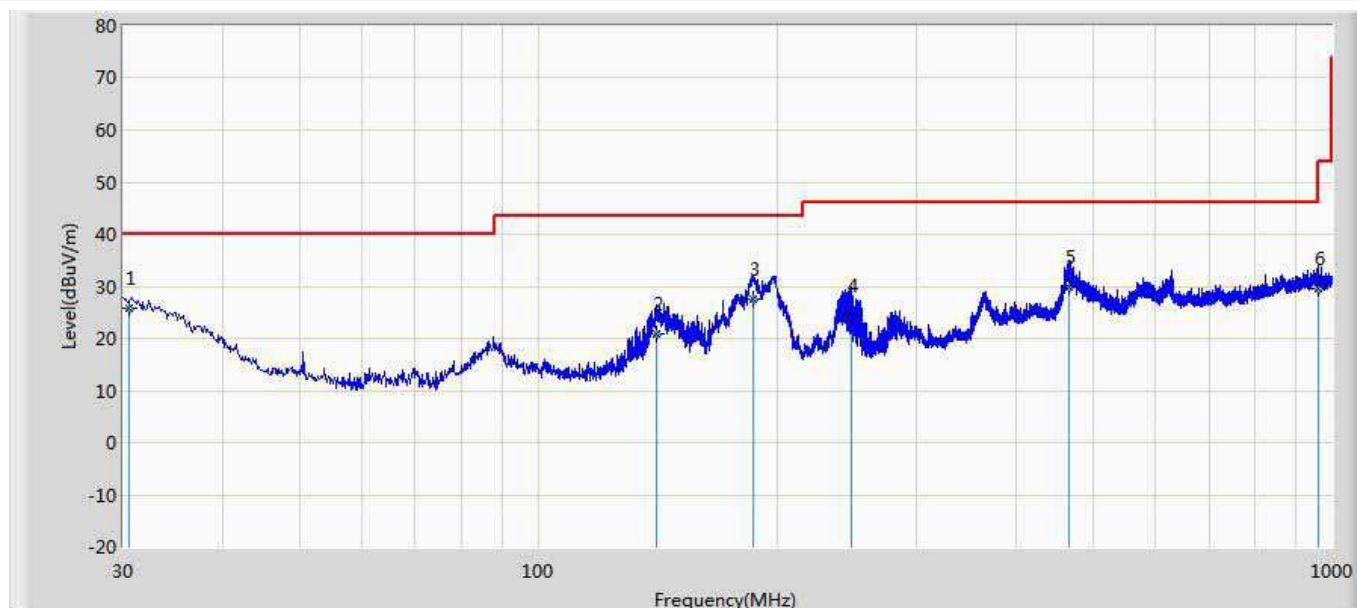
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		4804.000	43.763	40.070	-30.237	74.000	3.693	PK
2		4824.000	43.497	40.205	-30.503	74.000	3.292	PK
3		7206.000	44.629	37.867	-29.371	74.000	6.762	PK
4		7236.000	45.071	37.703	-28.929	74.000	7.368	PK
5		9608.000	49.834	39.345	-24.166	74.000	10.489	PK
6		9648.000	48.556	37.372	-25.444	74.000	11.184	PK
7		10360.000	49.192	37.978	-24.808	74.000	11.214	PK
8	*	15540.000	53.238	36.478	-20.762	74.000	16.760	PK

Note:

1. Measured Level = Reading Level + Factor.
2. The test frequency range, 9kHz~30MHz, 18GHz~40GHz, both of the worst case are at least 20dB below the limits, therefore no data appear in the report.
3. 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.
4. As the radiated emission was performed, so conducted emission was not tested.

The worst case of Radiated Emission below 1GHz:

Engineer: Barlow	
Site: AC3	Time: 2019/01/25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: AC3_3m (30-1000MHz)	Polarity: Horizontal
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1	

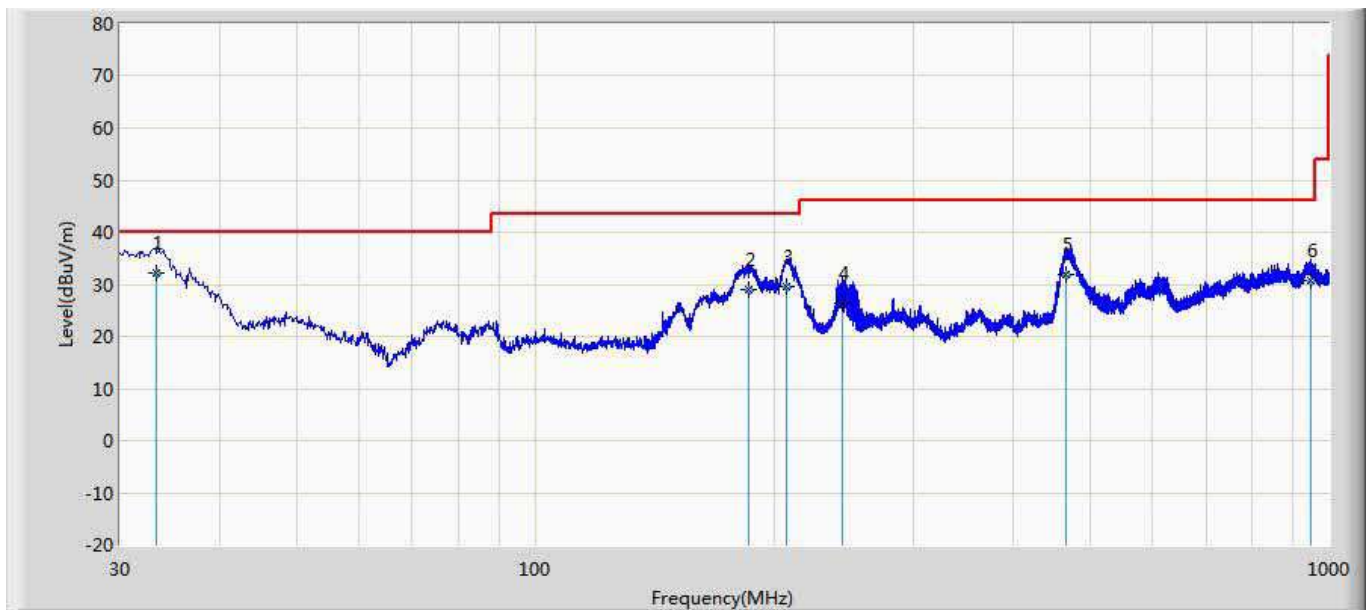


No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Probe (dB/m)	Cable (dB)	Amp (dB)	Ant Pos (cm)	Table Pos (deg)	Type
1	*	30.500	25.678	-2.000	-14.322	40.000	21.221	6.457	0.000	100	8	QP
2		141.158	20.842	3.200	-22.658	43.500	10.599	7.043	0.000	100	254	QP
3		186.536	27.585	10.244	-15.915	43.500	10.112	7.228	0.000	100	7	QP
4		247.788	24.291	6.200	-21.709	46.000	10.637	7.454	0.000	200	77	QP
5		466.259	29.912	3.300	-16.088	46.000	18.534	8.078	0.000	100	78	QP
6		961.459	29.658	-3.000	-24.342	54.000	23.431	9.227	0.000	200	96	QP

Note:

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

Engineer: Barlow	
Site: AC3	Time: 2019/01/25
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: AC3_3m (30-1000MHz)	Polarity: Vertical
EUT: REALMAX-QIAN	Power: AC 120V/60Hz
Note: Mode 1	



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	*	33.300	32.239	9.200	-7.761	40.000	16.564	6.474	0.000	100	78	QP
2		185.458	28.912	8.200	-14.588	43.500	13.486	7.226	0.000	200	9	QP
3		207.659	29.543	6.300	-13.957	43.500	15.935	7.309	0.000	300	14	QP
4		243.658	26.439	3.200	-19.561	46.000	15.802	7.437	0.000	100	8	QP
5		466.437	31.787	6.200	-14.213	46.000	17.508	8.079	0.000	200	7	QP
6		947.457	30.850	-4.000	-15.150	46.000	25.653	9.197	0.000	200	56	QP

Note:

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

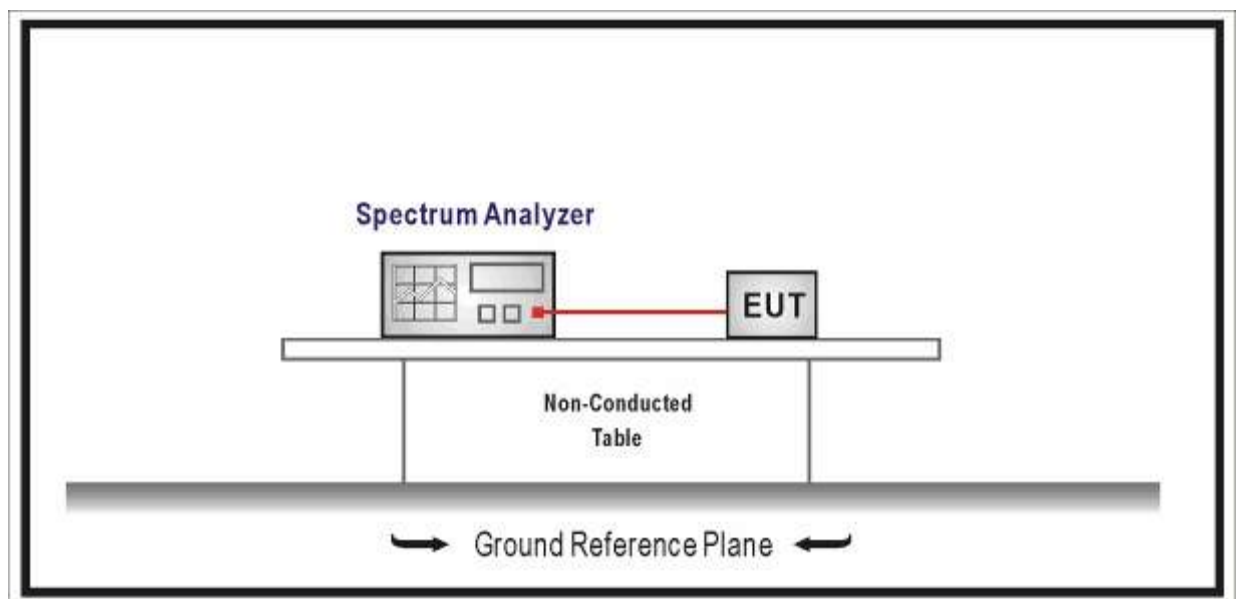
5. Emission bandwidth and occupied bandwidth

5.1. Test Equipment

Emission bandwidth and occupied bandwidth / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2019.02.04	2020.02.03
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2018.04.09	2019.04.08
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2018.04.09	2019.04.08
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2018.04.10	2019.04.09

Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

5.2. Test Setup



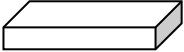
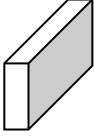
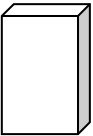
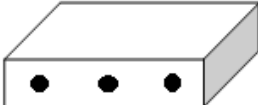
5.3. Limit

N/A

5.4. Test Procedure

Test Method			
	References Rule	Chapter	Description
☐	ANSI C63.10	12.4	Emission bandwidth and occupied bandwidth
	☐ ANSI C63.10	12.4.1	Emission bandwidth (26dB)
	☐ ANSI C63.10	12.4.2	Occupied bandwidth (99%)
☒	FCC KDB 789033 D02v01r04	C	Bandwidth Measurement
	☒ FCC KDB 789033 D02v01r04	C.1	Emission Bandwidth (26dB)
	☐ FCC KDB 789033 D02v01r04	C.2	Minimum Emission Bandwidth for the band 5.725-5.85 GHz (6dB)
☒	FCC KDB 789033 D02v01r04	D	99 Percent Occupied Bandwidth

5.5. EUT test Axis definition

Item	Occupied bandwidth			
Device Category	☐	Indoor use		
	☐	Outdoor use		
	☐	Fix position use		
	☒	Client use		
Test mode	Mode 1-6			
Test method	☐	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis ☐	Worst Axis ☐	Worst Axis ☐
	☒	Conducted		
	☒	Chain 1		
				
	☒	Chain 1	Chain 2	
				
	☐	Chain 1	Chain 2	Chain 3
				

5.6. Test Result

Product Name	: REALMAX-QIAN	Power	: AC 120V/60Hz
Test Mode	: Mode 1~6	Test Site	: TR8
Test Date	: 2019.03.18	Test Engineer	: Simon

Mode 1: Transmit by 802.11a

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
36	5180	22.25	16.610	5171.695	Pass
40	5220	21.83	16.639	N/A	Pass
48	5240	22.15	16.647	5248.324	Pass
52	5260	22.92	16.678	N/A	Pass
60	5300	21.48	16.664	N/A	Pass
64	5320	22.69	16.618	N/A	Pass
100	5500	22.35	16.656	N/A	Pass
116	5580	22.13	16.650	N/A	Pass
140	5700	22.01	16.598	N/A	Pass

Mode 2: Transmit by 802.11n(20MHz)

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
36	5180	23.26	17.887	5171.057	Pass
40	5220	22.95	17.802	N/A	Pass
48	5240	22.71	17.836	5248.918	Pass
52	5260	23.29	17.797	N/A	Pass
60	5300	23.52	17.798	N/A	Pass
64	5320	22.67	17.794	N/A	Pass
100	5500	23.38	17.819	N/A	Pass
116	5580	23.08	17.825	N/A	Pass
140	5700	23.39	17.760	N/A	Pass

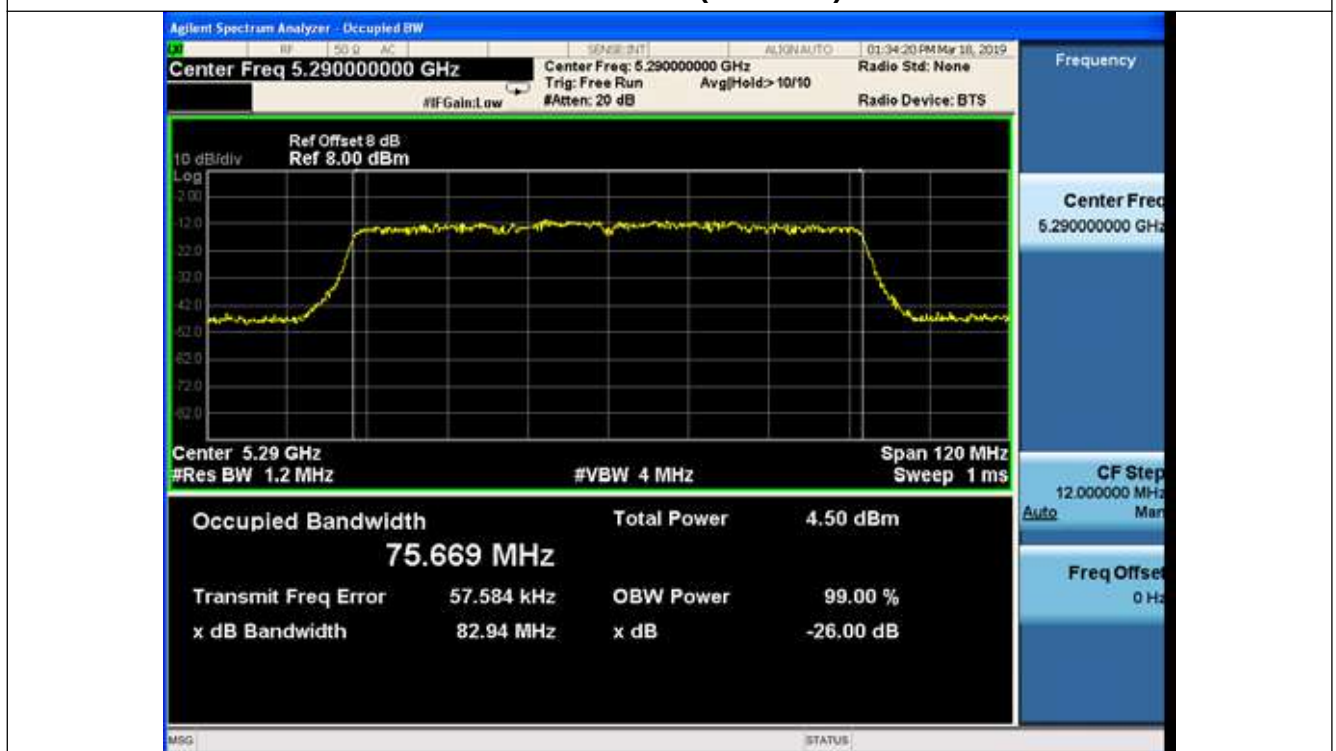
Mode 3: Transmit by 802.11n(40MHz)

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
38	5190	41.03	36.166	5171.917	Pass
46	5230	40.78	36.212	5248.106	Pass
54	5270	40.98	36.274	N/A	Pass
62	5310	41.47	36.234	N/A	Pass
102	5510	40.99	36.282	N/A	Pass
110	5550	41.72	36.228	N/A	Pass
134	5670	42.27	36.245	N/A	Pass

Mode 6: Transmit by 802.11ac(80MHz)

Channel No.	Frequency (MHz)	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Lower/Higher Frequency (MHz)	Result
		Ant1(Worst Data)	Ant1(Worst Data)	Ant1(Worst Data)	
42	5210	80.84	75.087	5172.457/5247.544	Pass
58	5290	82.94	75.669	N/A	Pass
106	5530	82.30	75.554	N/A	Pass

The worst case of Occupied Bandwidth as below:

Mode 6: CH58 (5290MHz)


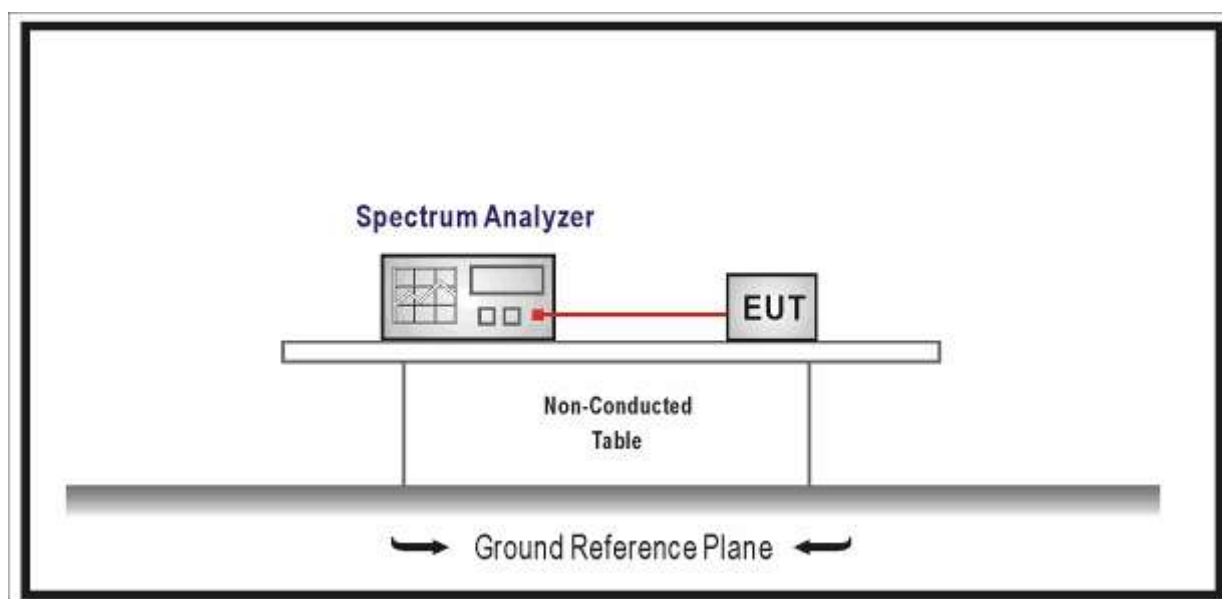
6. 6dB bandwidth

6.1. Test Equipment

Emission bandwidth and occupied bandwidth / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2019.02.04	2020.02.03
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2018.04.09	2019.04.08
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2018.04.09	2019.04.08
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2018.04.10	2019.04.09

Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

6.2. Test Setup



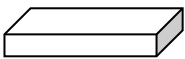
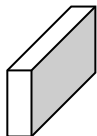
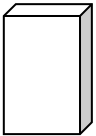
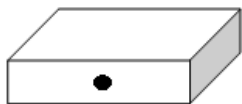
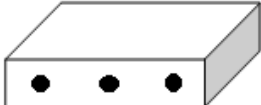
6.3. Limit

>500kHz

6.4. Test Procedure

Test Method			
	References Rule	Chapter	Description
☐	ANSI C63.10	12.4	Emission bandwidth and occupied bandwidth
	☐ ANSI C63.10	12.4.1	Emission bandwidth (26dB)
	☐ ANSI C63.10	12.4.2	Occupied bandwidth (99%)
☒	FCC KDB 789033 D02v01r04	C	Bandwidth Measurement
	☐ FCC KDB 789033 D02v01r04	C.1	Emission Bandwidth (26dB)
	☒ FCC KDB 789033 D02v01r04	C.2	Minimum Emission Bandwidth for the band 5.725-5.85 GHz (6dB)
☒	FCC KDB 789033 D02v01r04	D	99 Percent Occupied Bandwidth

6.5. EUT test Axis definition

Item	6dB bandwidth			
Device Category	☐	Indoor use		
	☐	Outdoor use		
	☐	Fix position use		
	☒	Client use		
Test mode	Mode 1-6			
Test method	☐	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis ☐	Worst Axis ☐	Worst Axis ☐
	☒	Conducted		
	☒	Chain 1		
				
	☒	Chain 1	Chain 2	
				
	☐	Chain 1	Chain 2	Chain 3
				

6.6. Test Result

Product Name	: REALMAX-QIAN	Power	: AC 120V/60Hz
Test Mode	: Mode 1~6	Test Site	: TR8
Test Date	: 2019.03.10	Test Engineer	: Simon

Mode 1: Transmit by 802.11a				
Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
149	5745	16.38	>500	Pass
157	5785	16.33		Pass
165	5825	15.38		Pass
Mode 2: Transmit by 802.11n(20MHz)				
Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
149	5745	16.82	>500	Pass
157	5785	14.90		Pass
165	5825	17.31		Pass
Mode 3: Transmit by 802.11n(40MHz)				
Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
151	5755	35.79	>500	Pass
159	5795	35.74		Pass

Mode 6: Transmit by 802.11ac(80MHz)

Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
		Ant1(Worst Data)		
155	5775	75.55	>500	Pass

The worst case of 6dB Bandwidth as below:

Mode 2: CH157 (5785MHz)

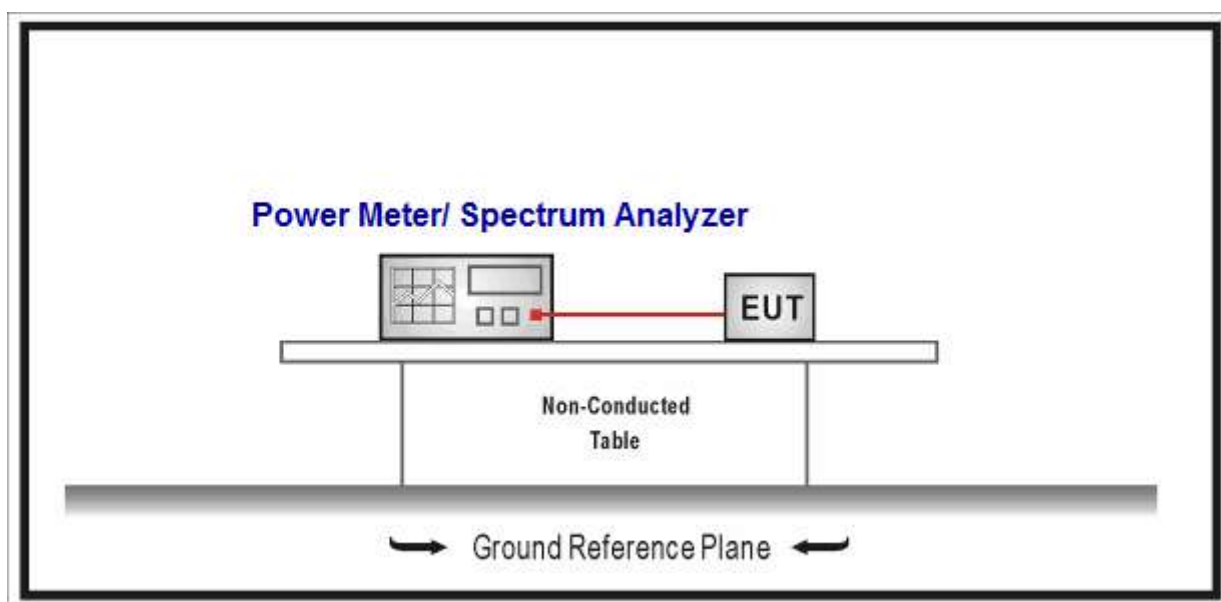


7. Power Output

7.1. Test Equipment

Power Output / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2019.01.04	2020.01.03
Spectrum Analyzer	Agilent	N9010A	MY48030494	2019.02.04	2020.02.03
Wideband Peak Power Meter	Anritsu	ML2495A	0905006	2018.10.14	2019.10.13
Power Sensor	Anritsu	MA2411B	0846014	2018.10.14	2019.10.13
Temperature/Humidity Meter	zhicheng	ZC1-2	TR8-TH	2018.04.10	2019.04.09
Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.					

7.2. Test Setup



7.3. Limit

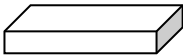
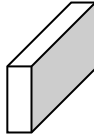
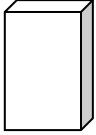
Fundamental emission output power Limit		
☒	For the band 5.15-5.25 GHz	
☐	☐	Outdoor access point: the maximum conducted output power shall not exceed 1 W. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 30 - (G_{TX} - 6)$ and $\leq 125\text{mW}$ at any angle above 30 degrees
	☐	Indoor access point: the maximum conducted output power shall not exceed 1 W. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 30 - (G_{TX} - 6)$
	☐	Fixed point-to-point access points: the maximum conducted output power shall not exceed 1 W. If $G_{TX} > 23\text{dBi}$, then $P_{out} \leq 30 - (G_{TX} - 23)$
	☒	Mobile and portable client devices: the maximum conducted output power shall not exceed 250mW. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 24 - (G_{TX} - 6)$
☒	For the band 5.25-5.35 GHz:	
☐	☒	The maximum conducted output power shall not exceed 250mW or $11\text{dBm} + 10 \text{ Log } B$, where B is the 26dB emission bandwidth in MHz. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq (\text{The lesser of } 24 \text{ or } 11\text{dBm} + 10 \text{ Log } B) - (G_{TX} - 6)$
☒	For the 5.47-5.725 GHz:	
☐	☒	The maximum conducted output power shall not exceed 250mW or $11\text{dBm} + 10 \text{ Log } B$, where B is the 26dB emission bandwidth in MHz. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq (\text{The lesser of } 24 \text{ or } 11\text{dBm} + 10 \text{ Log } B) - (G_{TX} - 6)$
☒	For the band 5.725-5.85 GHz:	
☐	☒	Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6 \text{ dBi}$, then $P_{Out} = 30 - (G_{TX} - 6)$
	☐	Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W
Note 1 : G_{TX} directional gain of transmitting antennas.		
Note 2 : P_{out} is maximum peak conducted output power .		

7.4. Test Procedure

Fundamental emission output power Test Method				
	References Rule		Chapter	Description
☒	ANSI C63.10		12.3	Maximum conducted output power
	☒	ANSI C63.10	12.3.2	Maximum conducted output power measurement using a spectrum analyzer (SA) or EMI receiver
		☐ ANSI C63.10	12.3.2.2	Method SA-1
		☐ ANSI C63.10	12.3.2.3	Method SA-1A (alternative)
		☒ ANSI C63.10	12.3.2.4	Method SA-2
		☐ ANSI C63.10	12.3.2.5	Method SA-2A (alternative)
		☐ ANSI C63.10	12.3.2.6	Method SA-3
		☐ ANSI C63.10	12.3.2.7	Method SA-3A (alternative)
	☒	ANSI C63.10	12.3.3	Maximum conducted output power using a power meter
		☐ ANSI C63.10	12.3.3.1	Method PM
		☒ ANSI C63.10	12.3.3.2	Method PM-G

Directional Gain Calculations for In-Band test method				
	References Rule		Chapter	Description
☐	KDB 662911		F2)a)	Basic methodology
	☐	KDB 662911	F2)a) (i)	transmit signals are correlated
	☐	KDB 662911	F2)a) (ii)	transmit signals are uncorrelated
☐	KDB 662911		F2)b)	Sectorized antenna systems.
☐	KDB 662911		F2)c)	Cross-polarized antennas
	☐	ANSI C63.10	F2)c) (i)	Cross-polarized antennas
	☐	ANSI C63.10	F2)c) (ii)	Multiple antennas
☒	KDB 662911		F2)e)	Spatial Multiplexing
	☐	KDB 662911	F2)e) (i)	Antennas have the same gain
	☐	KDB 662911	F2)e) (ii)	Antenna have the different gain with one spatial stream
	☒	KDB 662911	F2)e) (iii)	Antenna have the different gain with more than one spatial stream
☒	KDB 662911		F2)f)	Cyclic Delay Diversity (CDD)
	☐	KDB 662911	F2)f) (i)	Antennas have the same gain
	☒	KDB 662911	F2)f) (ii)	Antenna have the different gain with one spatial stream
	☐	KDB 662911	F2)f) (iii)	Antenna have the different gain with more than one spatial stream

7.5. EUT test Axis definition

Item	Power Output			
Device Category	☐	Indoor use		
	☐	Outdoor use		
	☐	Fix position use		
	☒	Client use		
Test mode	Mode 1-6			
Test method	☐	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis ☐	Worst Axis ☐	Worst Axis ☐
	☒	Conducted		
	☒	Chain 1		
				
	☒	Chain 1	Chain 2	
				
	☐	Chain 1	Chain 2	Chain 3
				

7.6. Test Result

Product Name	:	REALMAX-QIAN	Power	:	AC 120V/60Hz
Test Mode	:	Mode 1~6 with SISO	Test Site	:	TR8
Test Date	:	2019.02.25	Test Engineer	:	Simon

Mode 1: Transmit by 802.11a					
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Limit (dBm)	Result
		Ant1	Ant2		
CH36	5180	11.62	11.84	24.0	Pass
CH44	5220	11.29	11.71	24.0	Pass
CH48	5240	11.59	11.51	24.0	Pass
CH52	5260	11.35	11.73	24.0	Pass
CH60	5300	11.24	11.64	24.0	Pass
CH64	5320	11.32	11.64	24.0	Pass
CH100	5500	11.33	11.65	24.0	Pass
CH116	5580	11.46	11.46	24.0	Pass
CH140	5700	11.54	11.43	24.0	Pass
CH149	5745	11.44	11.59	30.0	Pass
CH157	5785	11.37	11.53	30.0	Pass
CH165	5825	11.54	11.34	30.0	Pass

Mode 2: Transmit by 802.11n(20MHz)					
Channel No.	Frequency (MHz)	Measurement Power(dBm)		Limit (dBm)	Result
		Ant1	Ant2		
CH36	5180	9.47	9.74	24.0	Pass
CH44	5220	9.71	9.68	24.0	Pass
CH48	5240	9.62	9.44	24.0	Pass
CH52	5260	9.63	9.62	24.0	Pass
CH60	5300	9.51	9.58	24.0	Pass
CH64	5320	9.61	9.65	24.0	Pass
CH100	5500	9.53	9.63	24.0	Pass
CH116	5580	9.28	9.29	24.0	Pass
CH140	5700	9.35	9.37	24.0	Pass
CH149	5745	9.73	9.56	30.0	Pass
CH157	5785	9.71	9.37	30.0	Pass
CH165	5825	9.39	9.72	30.0	Pass

Mode 3: Transmit by 802.11n(40MHz)

Channel No.	Frequency (MHz)	Measurement Power(dBm)		Limit (dBm)	Result
		Ant1	Ant2		
CH38	5190	9.72	9.53	24.0	Pass
CH46	5230	9.51	9.42	24.0	Pass
CH54	5270	9.56	9.41	24.0	Pass
CH62	5310	9.62	9.45	24.0	Pass
CH102	5510	9.59	9.65	24.0	Pass
CH110	5550	9.57	9.34	24.0	Pass
CH134	5670	9.63	9.35	24.0	Pass
CH151	5755	9.77	9.69	30.0	Pass
CH159	5795	9.42	9.72	30.0	Pass

Mode 4: Transmit by 802.11ac(20MHz)

Channel No.	Frequency (MHz)	Measurement Power(dBm)		Limit (dBm)	Result
		Ant1	Ant2		
CH36	5180	9.44	9.68	24.0	Pass
CH44	5220	9.65	9.64	24.0	Pass
CH48	5240	9.43	9.39	24.0	Pass
CH52	5260	9.27	9.58	24.0	Pass
CH60	5300	9.46	9.52	24.0	Pass
CH64	5320	9.56	9.64	24.0	Pass
CH100	5500	9.42	9.62	24.0	Pass
CH116	5580	9.23	9.21	24.0	Pass
CH140	5700	9.3	9.34	24.0	Pass
CH149	5745	9.67	9.53	30.0	Pass
CH157	5785	9.66	9.34	30.0	Pass
CH165	5825	9.36	9.67	30.0	Pass

Mode 5: Transmit by 802.11ac(40MHz)

Channel No.	Frequency (MHz)	Measurement Power(dBm)		Limit (dBm)	Result
		Ant1	Ant2		
CH38	5190	9.64	9.47	24.0	Pass
CH46	5230	9.51	9.36	24.0	Pass
CH54	5270	9.52	9.38	24.0	Pass
CH62	5310	9.59	9.43	24.0	Pass
CH102	5510	9.55	9.62	24.0	Pass
CH110	5550	9.55	9.3	24.0	Pass
CH134	5670	9.61	9.23	24.0	Pass
CH151	5755	9.68	9.64	30.0	Pass
CH159	5795	9.39	9.63	30.0	Pass

Mode 6: Transmit by 802.11ac(80MHz)

Channel No.	Frequency (MHz)	Measurement Power (dBm)		Limit (dBm)	Result
		Ant1	Ant2		
CH42	5210	9.26	9.78	24.0	Pass
CH58	5290	9.24	9.37	24.0	Pass
CH106	5530	9.87	9.29	24.0	Pass
CH155	5775	9.53	9.51	30.0	Pass

Product Name	: REALMAX-QIAN	Power	: AC 120V/60Hz
Test Mode	: Mode 1~6 with MIMO	Test Site	: TR8
Test Date	: 2019.02.25	Test Engineer	: Simon

Mode 1: Transmit by 802.11a

Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH36	5180	8.37	8.78	11.59	24.0	Pass
CH44	5220	8.21	8.65	11.45	24.0	Pass
CH48	5240	8.36	8.95	11.68	24.0	Pass
CH52	5260	8.10	8.66	11.40	24.0	Pass
CH60	5300	8.21	8.77	11.51	24.0	Pass
CH64	5320	8.14	8.61	11.39	24.0	Pass
CH100	5500	8.16	8.65	11.42	24.0	Pass
CH116	5580	8.18	8.72	11.47	24.0	Pass
CH140	5700	8.12	8.63	11.39	24.0	Pass
CH149	5745	8.15	8.57	11.38	30.0	Pass
CH157	5785	8.15	8.74	11.47	30.0	Pass
CH165	5825	8.64	8.65	11.66	30.0	Pass

Mode 2: Transmit by 802.11n(20MHz)

Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH36	5180	6.41	6.87	9.66	24.0	Pass
CH44	5220	6.08	6.55	9.33	24.0	Pass
CH48	5240	6.26	6.51	9.40	24.0	Pass
CH52	5260	6.13	6.62	9.39	24.0	Pass
CH60	5300	6.30	6.76	9.55	24.0	Pass
CH64	5320	6.14	6.62	9.40	24.0	Pass
CH100	5500	6.29	6.84	9.58	24.0	Pass
CH116	5580	5.92	6.57	9.27	24.0	Pass
CH140	5700	5.98	6.53	9.27	24.0	Pass
CH149	5745	6.38	6.93	9.67	30.0	Pass
CH157	5785	6.18	6.78	9.50	30.0	Pass
CH165	5825	6.09	6.66	9.39	30.0	Pass

Mode 3: Transmit by 802.11n(40MHz)

Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH38	5190	6.28	6.62	9.46	24.0	Pass
CH46	5230	6.26	6.67	9.48	24.0	Pass
CH54	5270	6.19	6.68	9.45	24.0	Pass
CH62	5310	6.21	6.63	9.44	24.0	Pass
CH102	5510	6.07	6.56	9.33	24.0	Pass
CH110	5550	6.23	6.75	9.51	24.0	Pass
CH134	5670	5.83	6.41	9.14	24.0	Pass
CH151	5755	6.06	6.64	9.37	30.0	Pass
CH159	5795	6.27	6.71	9.51	30.0	Pass

Mode 4: Transmit by 802.11ac(20MHz)

Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH36	5180	6.21	6.72	9.48	24.0	Pass
CH44	5220	5.89	6.48	9.21	24.0	Pass
CH48	5240	6.22	6.43	9.34	24.0	Pass
CH52	5260	6.06	6.51	9.30	24.0	Pass
CH60	5300	6.13	6.71	9.44	24.0	Pass
CH64	5320	6.05	6.57	9.33	24.0	Pass
CH100	5500	6.23	6.8	9.53	24.0	Pass
CH116	5580	5.88	6.49	9.21	24.0	Pass
CH140	5700	5.92	6.44	9.20	24.0	Pass
CH149	5745	6.08	6.66	9.39	30.0	Pass
CH157	5785	6.13	6.71	9.44	30.0	Pass
CH165	5825	6.06	6.62	9.36	30.0	Pass

Mode 5: Transmit by 802.11ac(40MHz)

Channel No.	Frequency (MHz)	Measurement Power(dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH38	5190	6.24	6.55	9.41	24.0	Pass
CH46	5230	6.15	6.64	9.41	24.0	Pass
CH54	5270	6.14	6.61	9.39	24.0	Pass
CH62	5310	6.15	6.57	9.38	24.0	Pass
CH102	5510	6.01	6.41	9.22	24.0	Pass
CH110	5550	6.19	6.73	9.48	24.0	Pass
CH134	5670	5.75	6.36	9.08	24.0	Pass
CH151	5755	5.92	6.52	9.24	30.0	Pass
CH159	5795	6.23	6.64	9.45	30.0	Pass

Mode 6: Transmit by 802.11ac(80MHz)

Channel No.	Frequency (MHz)	Measurement Power (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Ant1	Ant2			
CH42	5210	5.98	6.56	9.29	24.0	Pass
CH58	5290	6.16	6.62	9.41	24.0	Pass
CH106	5530	6.31	6.78	9.56	24.0	Pass
CH155	5775	6.32	6.85	9.60	30.0	Pass

Note: The lowest 26dB bandwidth was used for calculate the power limit according to the format $(11+10*\log B)$. The level is 24.3dBm which is higher than 24dBm, so 24dbm was used for power limit.

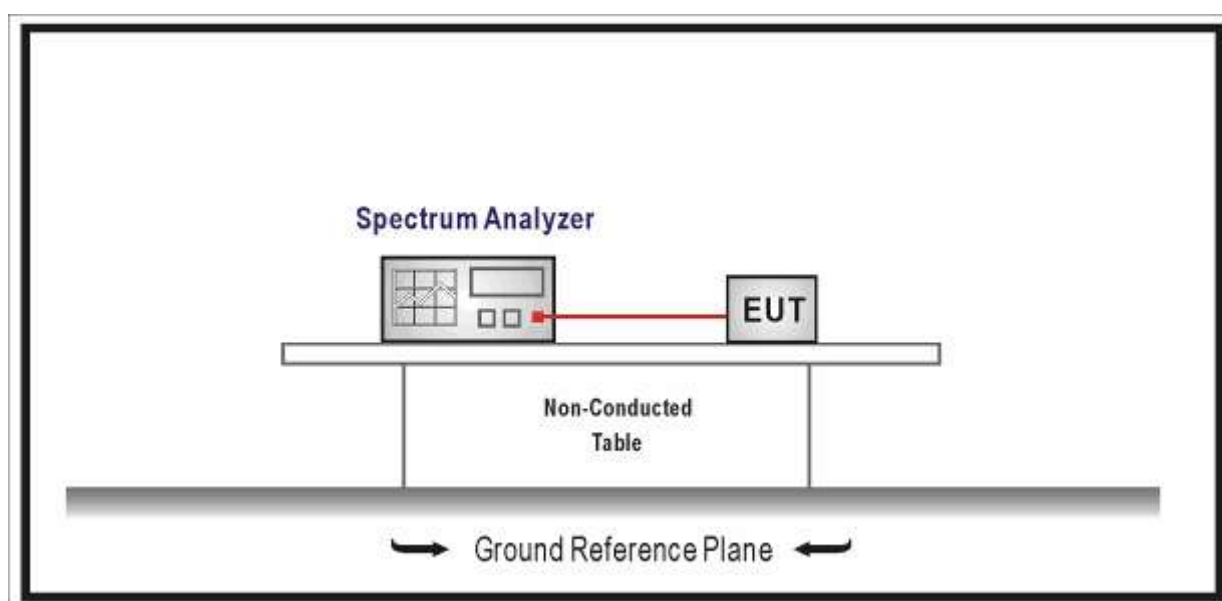
8. Peak Power Spectral Density

8.1. Test Equipment

Peak Power Spectral Density / TR-8					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2019.02.04	2020.02.03
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2018.04.09	2019.04.08
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2018.04.09	2019.04.08
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2018.04.10	2019.04.09

Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

8.2. Test Setup



8.3. Limit

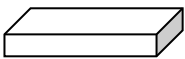
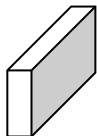
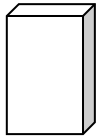
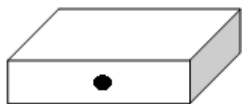
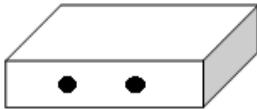
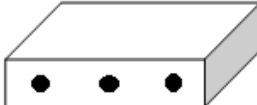
Fundamental emission output power Limit	
☒	For the band 5.15-5.25 GHz
☐	Outdoor access point: the maximum power spectral density shall not exceed 17 dBm/MHz. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 17 - (G_{TX} - 6)$
☐	Indoor access point: the maximum power spectral density shall not exceed 17 dBm/MHz. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 17 - (G_{TX} - 6)$
☐	Fixed point-to-point access points: the maximum power spectral density shall not exceed 17 dBm/MHz. If $G_{TX} > 23\text{dBi}$, then $P_{out} \leq 17 - (G_{TX} - 23)$
☒	Mobile and portable client devices: the maximum power spectral density shall not exceed 11 dBm/MHz. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 11 - (G_{TX} - 6)$
☒	For the 5.25-5.35 GHz:
☒	the maximum power spectral density shall not exceed 11 dBm/MHz. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 11 - (G_{TX} - 6)$
☒	For the 5.47-5.725 GHz:
☒	the maximum power spectral density shall not exceed 11 dBm/MHz. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 11 - (G_{TX} - 6)$
☒	For the band 5.725-5.85 GHz:
☒	the maximum power spectral density shall not exceed 30 dBm/500KHz. If $G_{TX} > 6\text{dBi}$, then $P_{out} \leq 30 - (G_{TX} - 6)$
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	12.5	Peak power spectral density
☒	FCC KDB 789033 D02v01r04	F	Maximum Power Spectral Density (PSD)

Directional Gain Calculations for In-Band test method				
	References Rule		Chapter	Description
☐	KDB 662911		F2)a)	Basic methodology
	☐	KDB 662911	F2)a) (i)	transmit signals are correlated
	☐	KDB 662911	F2)a) (ii)	transmit signals are uncorrelated
☐	KDB 662911		F2)b)	Sectorized antenna systems.
☐	KDB 662911		F2)c)	Cross-polarized antennas
	☐	ANSI C63.10	F2)c) (i)	Cross-polarized antennas
	☐	ANSI C63.10	F2)c) (ii)	Multiple antennas
☒	KDB 662911		F2)e)	Spatial Multiplexing
	☐	KDB 662911	F2)e) (i)	Antennas have the same gain
	☐	KDB 662911	F2)e) (ii)	Antenna have the different gain with one spatial stream
	☒	KDB 662911	F2)e) (iii)	Antenna have the different gain with more than one spatial stream
☒	KDB 662911		F2)f)	Cyclic Delay Diversity (CDD)
	☐	KDB 662911	F2)f) (i)	Antennas have the same gain
	☒	KDB 662911	F2)f) (ii)	Antenna have the different gain with one spatial stream
	☐	KDB 662911	F2)f) (iii)	Antenna have the different gain with more than one spatial stream

8.5.EUT test Axis definition

Item	Peak power spectral density			
Device Category	☐	Indoor use		
	☐	Outdoor use		
	☐	Fix position use		
	☒	Client use		
Test mode	Mode 1-6			
Test method	☐	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis ☐	Worst Axis ☐	Worst Axis ☐
	☒	Conducted		
	☒	Chain 1		
				
	☒	Chain 1	Chain 2	
				
	☐	Chain 1	Chain 2	Chain 3
				

8.6. Test Result

Product Name	:	REALMAX-QIAN	Power	:	AC 120V/60Hz
Test Mode	:	Mode 1~6	Test Site	:	TR8
Test Date	:	2019.03.18	Test Engineer	:	Simon

Mode 1: Transmit by 802.11a								
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Duty Factor (dB)	Total Power Spectral Density (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant1	Ant2					
CH36	5180	-12.302	-11.402	0.13	-8.688	6.6	10.4	Pass
CH44	5220	-11.565	-9.943	0.13	-7.538	6.6	10.4	Pass
CH48	5240	-11.516	-11.082	0.13	-8.153	6.6	10.4	Pass
CH52	5260	-12.795	-12.192	0.13	-9.343	6.6	10.4	Pass
CH60	5300	-13.512	-11.948	0.13	-9.520	6.6	10.4	Pass
CH64	5320	-13.769	-13.038	0.13	-10.248	6.6	10.4	Pass
CH100	5500	-10.770	-10.310	0.13	-7.394	6.6	10.4	Pass
CH116	5580	-12.618	-12.021	0.13	-9.169	6.6	10.4	Pass
CH140	5700	-14.342	-13.608	0.13	-10.819	6.6	10.4	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Duty Factor (dB)	Total Power Spectral Density (dBm/500KHz)	Directional Gain (dBi)	Limit (dBm/500KHz)	Result
		Ant1	Ant2					
CH149	5745	-15.795	-15.350	0.13	-12.427	6.6	29.4	Pass
CH157	5785	-13.991	-14.238	0.13	-10.972	6.6	29.4	Pass
CH165	5825	-13.479	-13.530	0.13	-10.364	6.6	29.4	Pass

Mode 2: Transmit by 802.11n(20MHz)

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Duty Factor (dB)	Total Power Spectral Density (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant1	Ant2					
CH36	5180	-14.632	-13.642	0.09	-11.009	6.6	10.4	Pass
CH44	5220	-13.863	-12.783	0.09	-10.189	6.6	10.4	Pass
CH48	5240	-14.009	-13.701	0.09	-10.752	6.6	10.4	Pass
CH52	5260	-16.189	-14.417	0.09	-12.113	6.6	10.4	Pass
CH60	5300	-16.705	-15.033	0.09	-12.689	6.6	10.4	Pass
CH64	5320	-16.779	-15.478	0.09	-12.980	6.6	10.4	Pass
CH100	5500	-12.754	-12.300	0.09	-9.421	6.6	10.4	Pass
CH116	5580	-13.700	-13.616	0.09	-10.557	6.6	10.4	Pass
CH140	5700	-16.321	-15.857	0.09	-12.983	6.6	10.4	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Duty Factor (dB)	Total Power Spectral Density (dBm/500KHz)	Directional Gain (dBi)	Limit (dBm/500KHz)	Result
		Ant1	Ant2					
CH149	5745	-17.119	-16.948	0.09	-13.932	6.6	29.4	Pass
CH157	5785	-16.813	-16.303	0.09	-13.450	6.6	29.4	Pass
CH165	5825	-16.009	-15.843	0.09	-12.825	6.6	29.4	Pass

Mode 3: Transmit by 802.11n(40MHz)

Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Duty Factor (dB)	Total Power Spectral Density (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant1	Ant2					
CH38	5190	-16.524	-16.050	0.32	-12.950	6.6	10.4	Pass
CH46	5230	-16.341	-16.492	0.32	-13.086	6.6	10.4	Pass
CH54	5270	-18.997	-17.374	0.32	-14.780	6.6	10.4	Pass
CH62	5310	-19.795	-18.172	0.32	-15.578	6.6	10.4	Pass
CH102	5510	-15.460	-15.341	0.32	-12.070	6.6	10.4	Pass
CH110	5550	-16.811	-16.567	0.32	-13.357	6.6	10.4	Pass
CH134	5670	-19.041	-18.389	0.32	-15.372	6.6	10.4	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Duty Factor (dB)	Total Power Spectral Density (dBm/500KHz)	Directional Gain (dBi)	Limit (dBm/500KHz)	Result
		Ant1	Ant2					
CH151	5755	-20.429	-20.453	0.32	-17.111	6.6	29.4	Pass
CH159	5795	-19.479	-18.949	0.32	-15.876	6.6	29.4	Pass

Mode 6: Transmit by 802.11ac(80MHz)

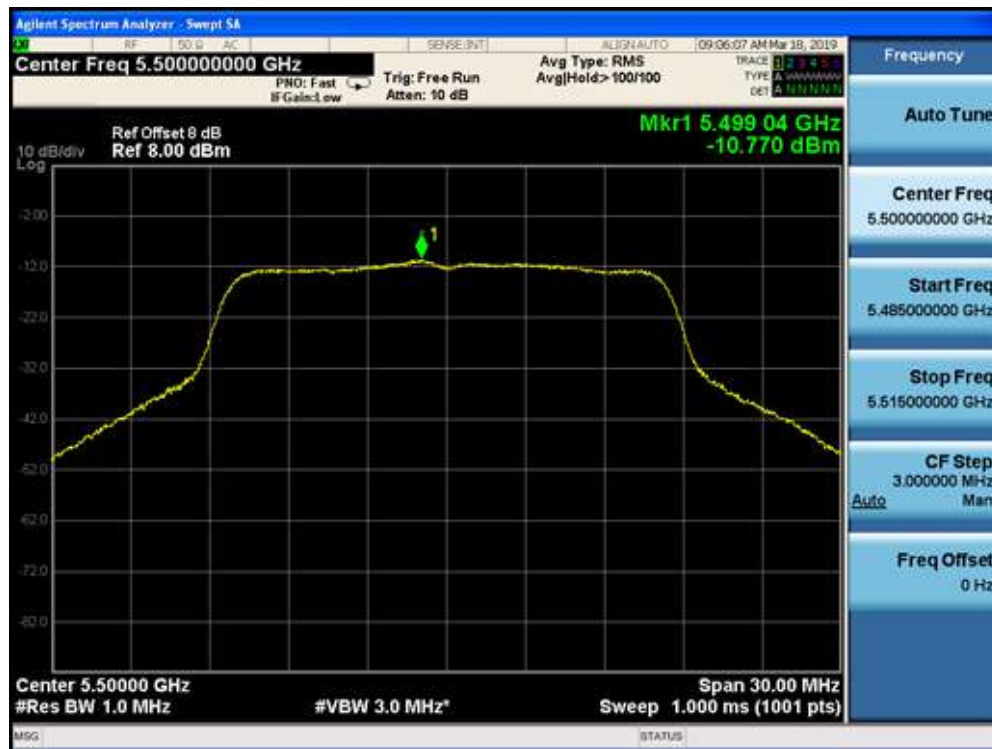
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/MHz)		Duty Factor (dB)	Total Power Spectral Density (dBm/MHz)	Directional Gain (dBi)	Limit (dBm/MHz)	Result
		Ant1	Ant2					
CH42	5210	-17.511	-17.201	0.32	-14.023	6.6	10.4	Pass
CH58	5290	-21.911	-20.308	0.32	-17.706	6.6	10.4	Pass
CH106	5530	-18.471	-18.048	0.32	-14.924	6.6	10.4	Pass
Channel No.	Frequency (MHz)	Measurement Power Spectral Density (dBm/500KHz)		Duty Factor (dB)	Total Power Spectral Density (dBm/500KHz)	Directional Gain (dBi)	Limit (dBm/500KHz)	Result
		Ant1	Ant2					
CH155	5775	-21.875	-21.705	0.32	-18.459	6.6	29.4	Pass

Note

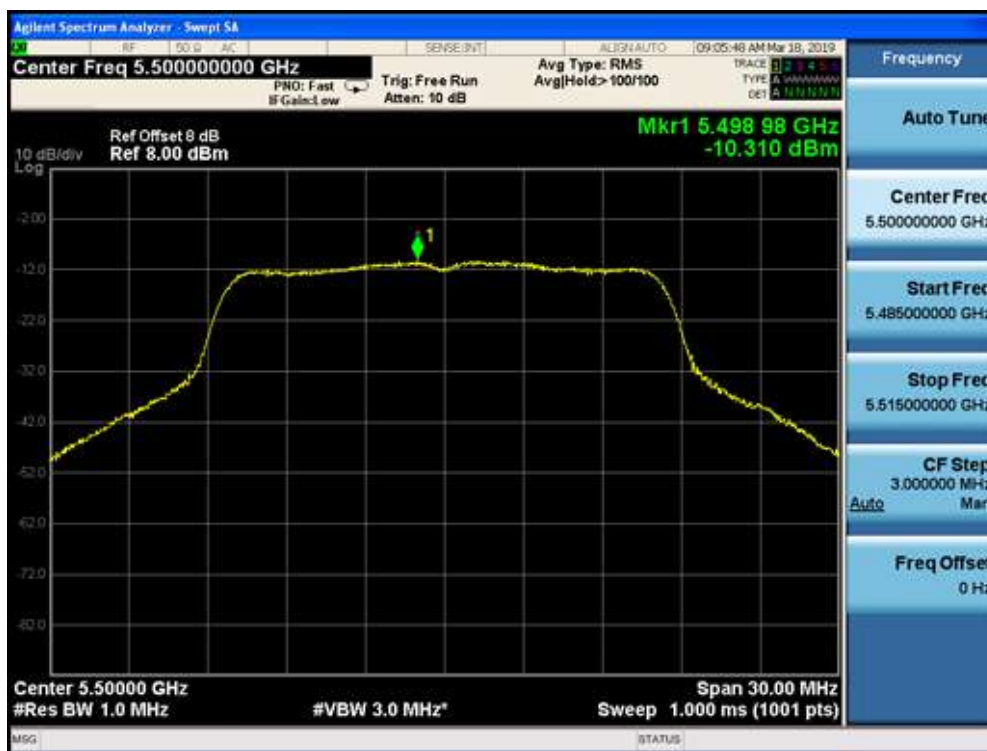
1: The PSD limit should be reduced if the directional gain is higher than 6dBi, the reduced value should be (directional gain - 6dB).

2: Total Power Spectral Density = Measurement Power Spectral Density + Duty Factor

The worst case of 6dB Bandwidth as below:

Mode 1 CH100 (5500MHz) Ant 1


Mode 1 CH100 (5500MHz) Ant 2



9. Conducted Band Edge

9.1. Test Equipment

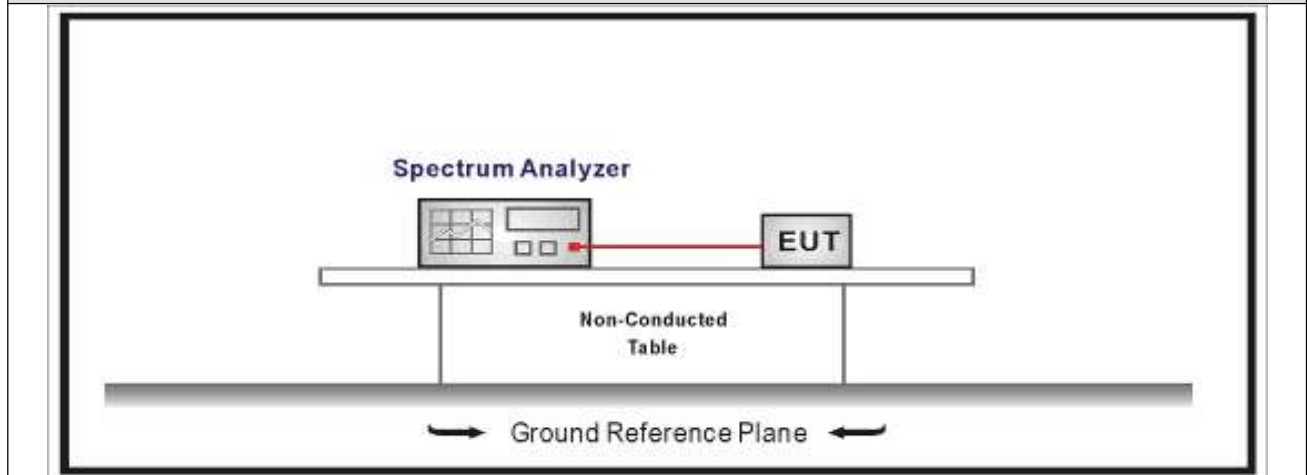
Conducted Band Edge / TR-8

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2019.02.04	2020.02.03
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2018.04.09	2019.04.08
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2018.04.09	2019.04.08
Temperature/Humidity Meter	zhichen	ZC1-2	TR8-TH	2018.04.10	2019.04.09

Note: All equipment is calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

9.2. Test Setup

Conducted Band Edge



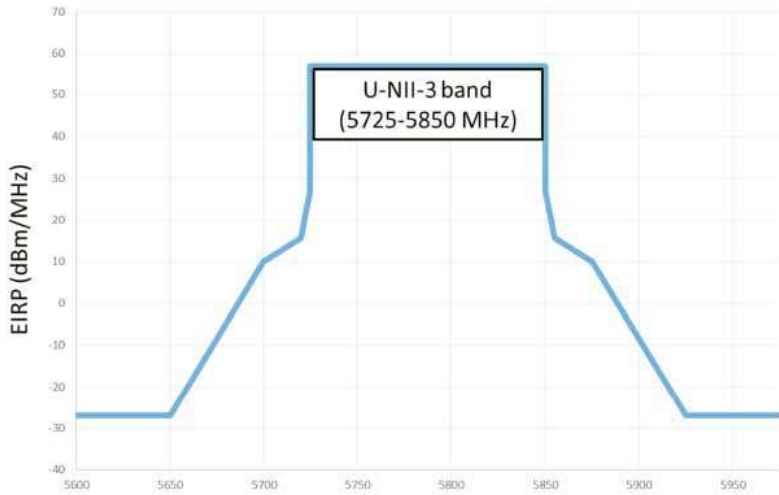
9.3. Limit

FCC Part 15 Subpart C Paragraph 15.209 (Restricted Band Emissions Limit)		
Frequency (MHz)	Distance (m)	Level (μV/m)
0.009-0.490	300	2400/F(kHz)
0.490-1.705	30	24000/F(kHz)
1.705-30.0	30	30
30-88	3	100**
88-216	3	150**
216-960	3	200**
Above 960	3	500

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).

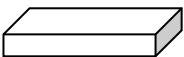
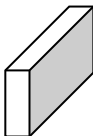
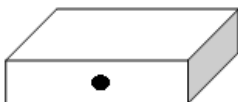
FCC Part 15 Subpart C Paragraph 15.205 (Restricted Band)			
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
0.495 – 0.505	16.69475 – 16.69525	608 – 614	5.35 – 5.46
2.1735 – 2.1905	16.80425 – 16.80475	960 – 1240	7.25 – 7.75
4.125 – 4.128	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			

FCC Part 15 Subpart C Paragraph 15.407(5)(b) (Unrestricted Band Emissions Limit)		
Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dB μ V/m)
5150 - 5250	-27	68.3
5250 - 5350	-27	68.3
5470 - 5725	-27	68.3
Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	
5725 - 5850	 U-NII-3 band (5725-5850 MHz)	

9.4. Test Procedure

Test Method				
	References Rule		Chapter	Description
☐	ANSI C63.10		12.7.3	Emissions in non-restricted frequency bands
☒	ANSI C63.10		12.7.2	Emissions in restricted frequency bands
	☐	ANSI C63.10	12.7.5	Radiated emission measurements
	☒	ANSI C63.10	12.7.6	Procedure for peak unwanted emissions measurements above 1000 MHz
	☒	ANSI C63.10	12.7.7	Procedures for average unwanted emissions measurements above 1000 MHz
	☐	ANSI C63.10	12.7.7.2	Method AD (average detection)—primary method
	☒	ANSI C63.10	12.7.7.3	Method VB-A (Alternative)
	☐	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
☐	FCC KDB 789033 D02v02r01		G.2	Unwanted Emissions that fall Outside of the Restricted Bands
☐	FCC KDB 789033 D02v02r01		G.1	Unwanted Emissions in the Restricted Bands
	☐	FCC KDB 789033 D02v02r01	G.4	Procedure for Unwanted Emissions Measurements below 1000 MHz
	☐	FCC KDB 789033 D02v02r01	G.5	Procedure for Unwanted Maximum Emissions Measurements above 1000 MHz
	☐	FCC KDB 789033 D02v02r01	G.6	Procedures for Average Unwanted Emissions Measurements above 1000 MHz
	☐	FCC KDB 789033 D02v02r01	G.6.c	Method AD (Average detection)—primary method
	☐	FCC KDB 789033 D02v02r01	G.6.d	Method VB (Averaging using reduced video bandwidth): Alternative method.

9.5. EUT test Axis definition

Item	Peak power spectral density			
Device Category	☐	Indoor use		
	☐	Outdoor use		
	☐	Fix position use		
	☒	Client use		
Test mode	Mode 1-6			
Test method	☐	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis ☒	Worst Axis ☐	Worst Axis ☐
	☒	Conducted		
	☒	Chain 1		
				
	☒	Chain 1	Chain 2	
				
	☐	Chain 1	Chain 2	Chain 3
				

9.6. Test Result

SISO AV Limit=54 dBuV/m-95.2-3.6(Antenna Gain)=-44.8dBm

5180MHz by 802.11a:



5320MHz by 802.11a:



5500MHz by 802.11a:



5180MHz by 802.11n(20MHz):



5320MHz by 802.11n(20MHz):



5500MHz by 802.11n(20MHz):



5190MHz by 802.11n(40MHz):



5310MHz by 802.11n(40MHz):



5510MHz by 802.11n(40MHz):



5210MHz by 802.11ac(80MHz):



5290MHz by 802.11ac(80MHz):



5530MHz by 802.11ac(80MHz):

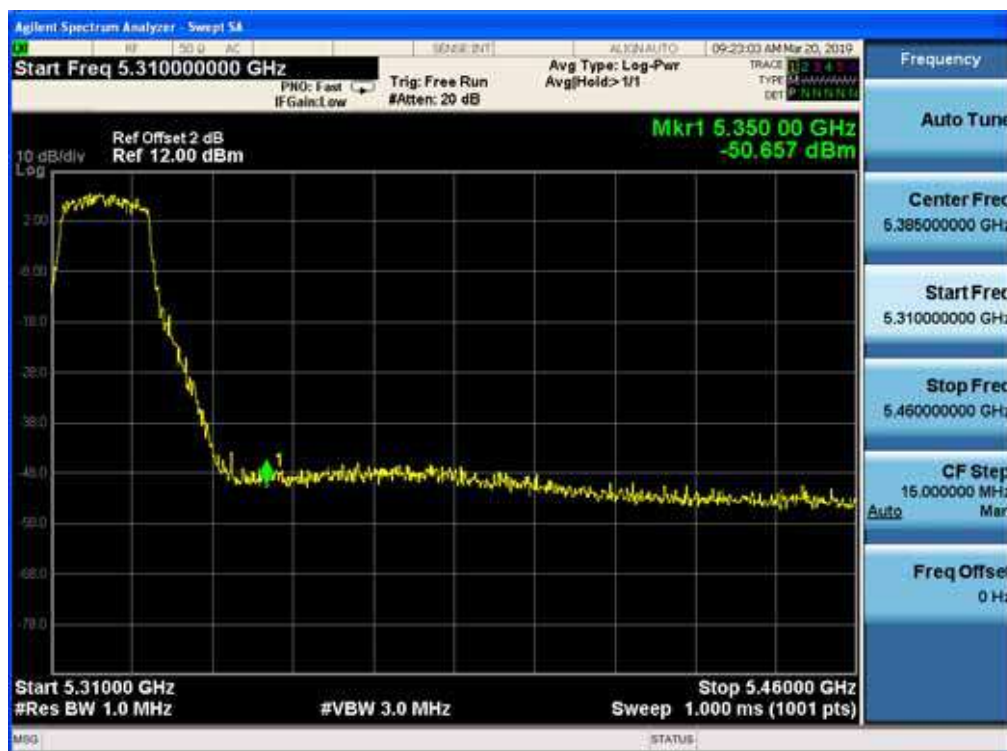


SISO PK Limit=74dBuV/m-95.2-3.6(Antenna Gain)=-24.8dBm

5180MHz by 802.11a:



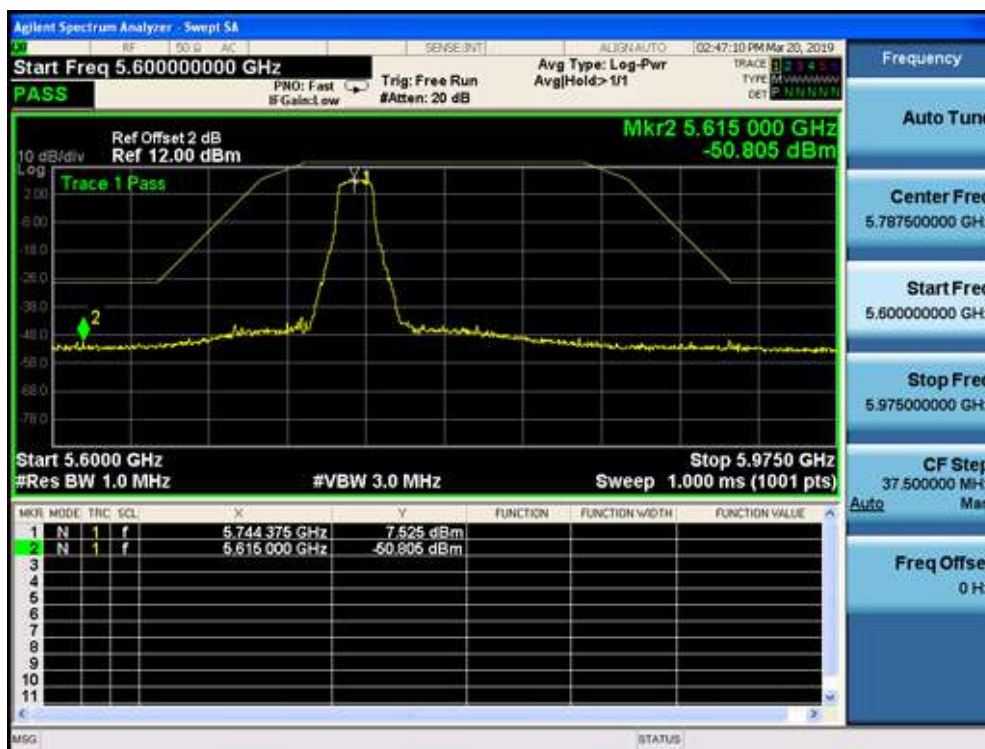
5320MHz by 802.11a:



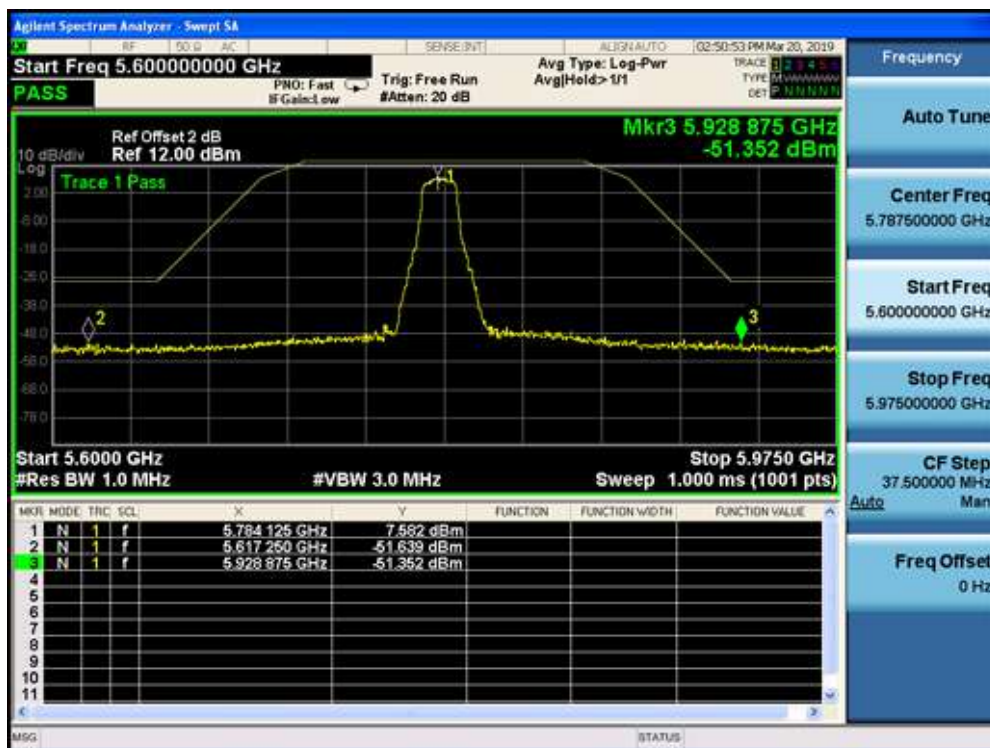
5500MHz by 802.11a:



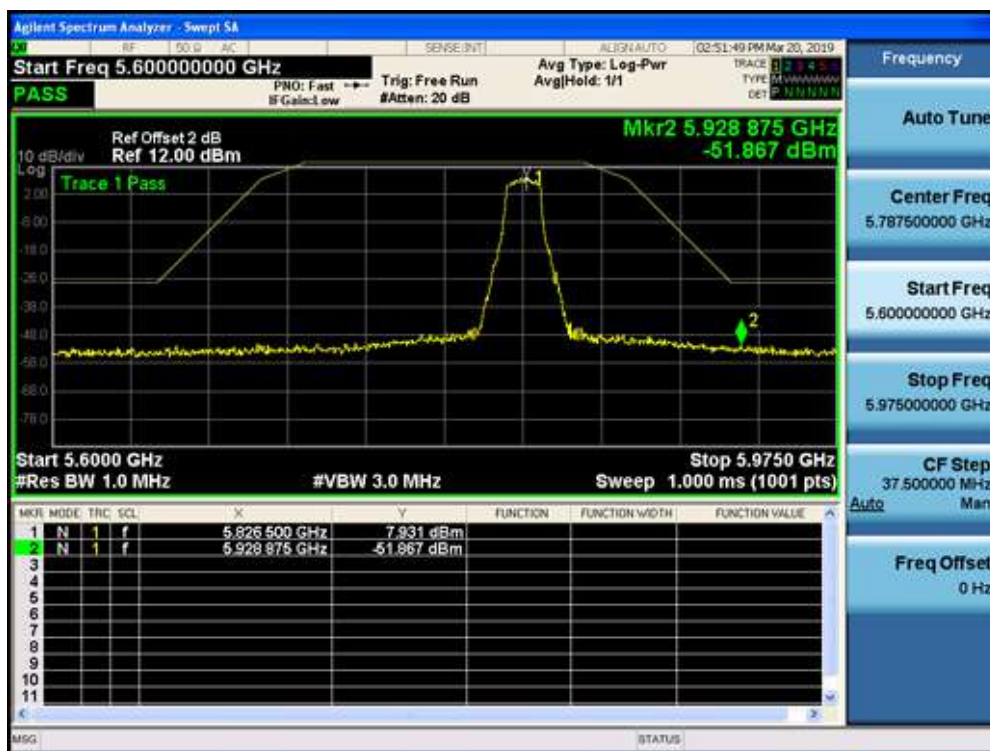
5745MHz by 802.11a:



5785MHz by 802.11a:



5825MHz by 802.11a:



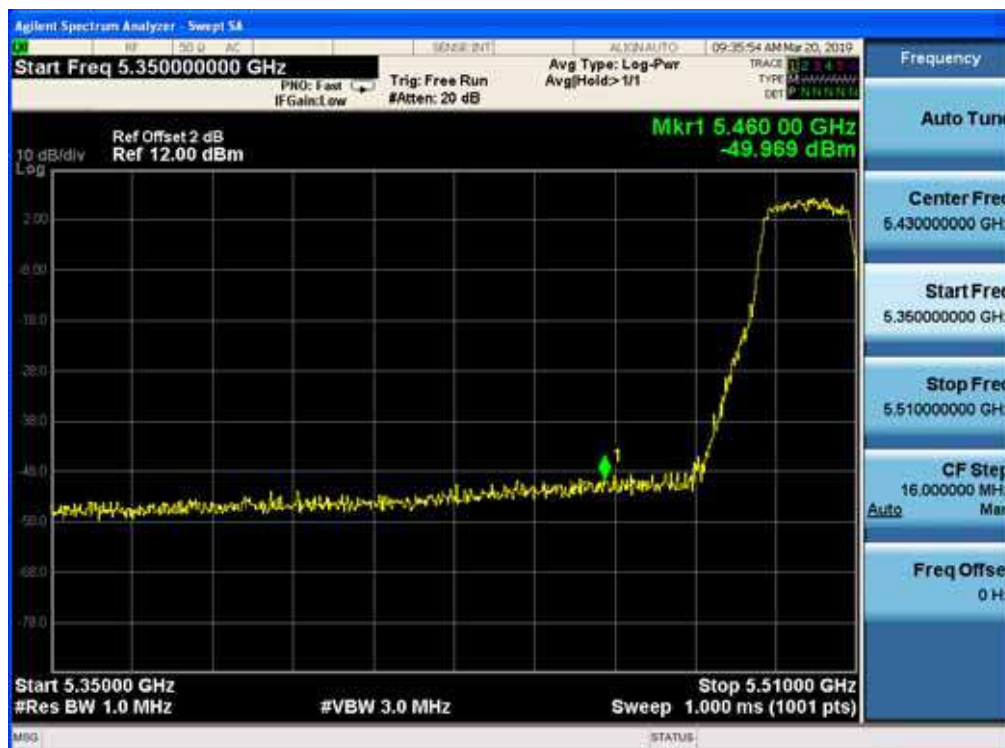
5180MHz by 802.11n(20MHz):



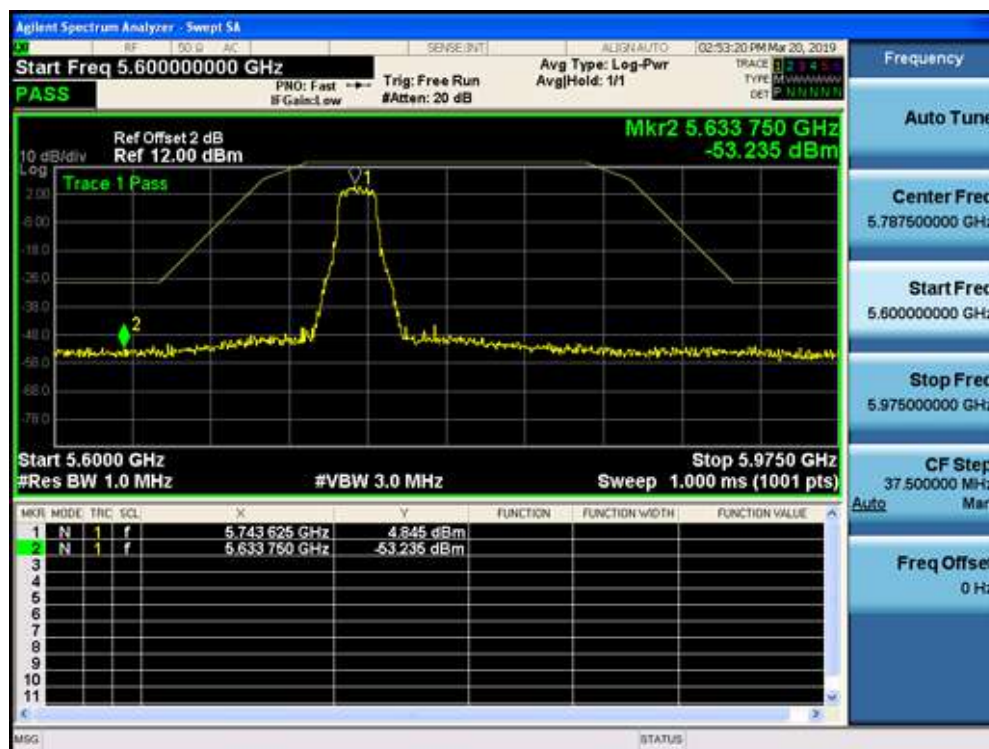
5320MHz by 802.11n(20MHz):



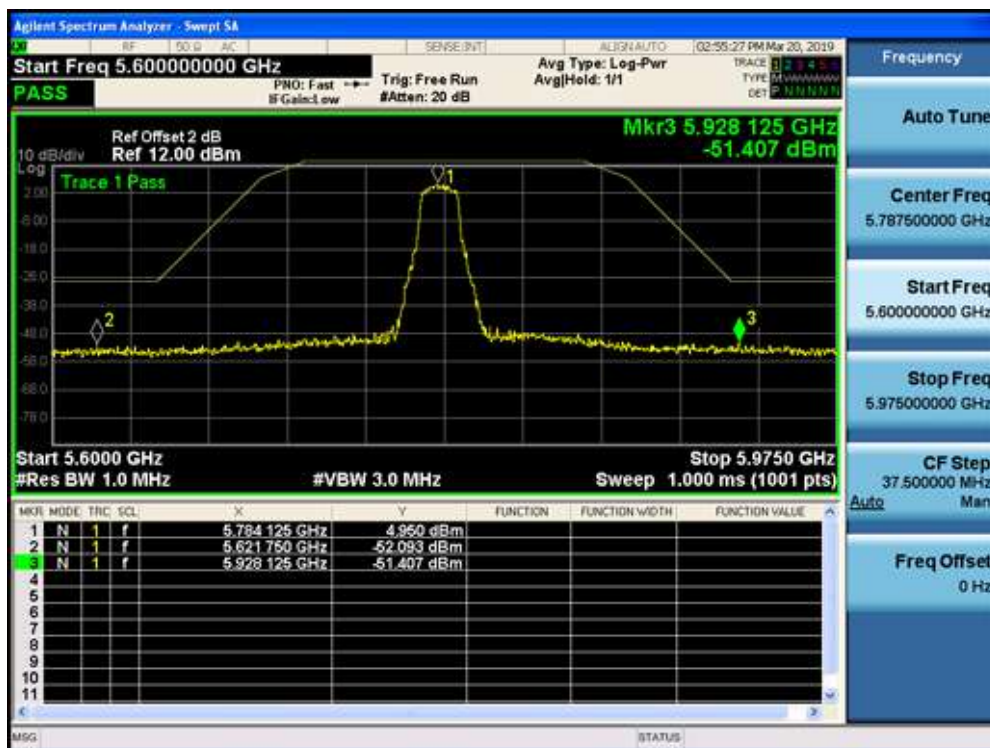
5500MHz by 802.11n(20MHz):



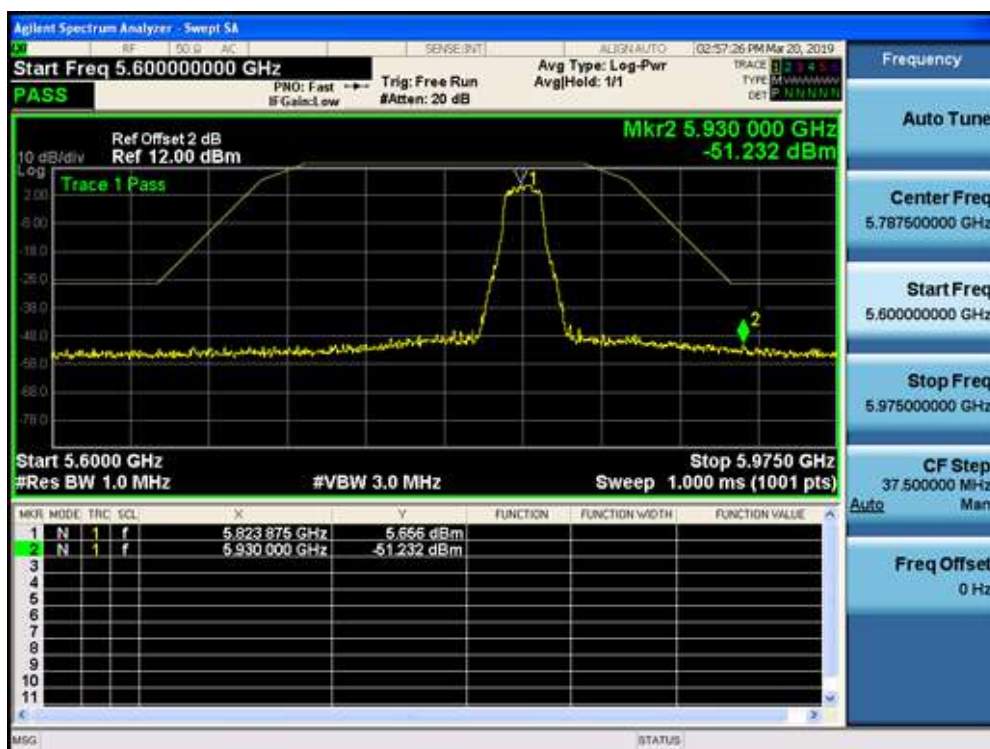
5745MHz by 802.11n(20MHz):



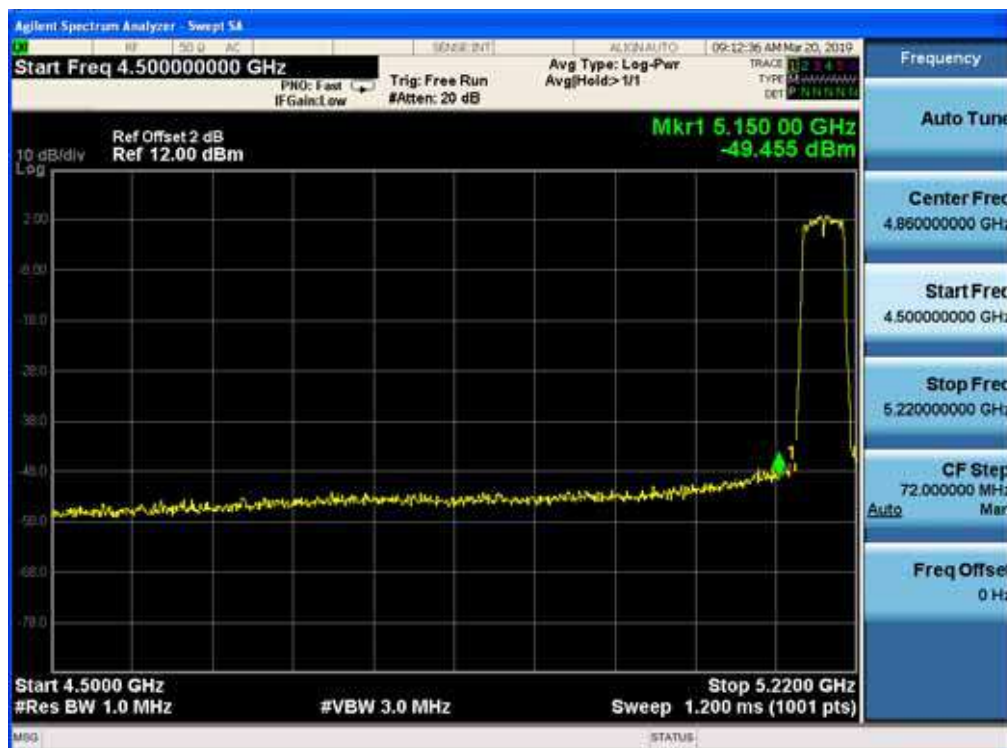
5785MHz by 802.11n(20MHz):



5825MHz by 802.11n(20MHz):



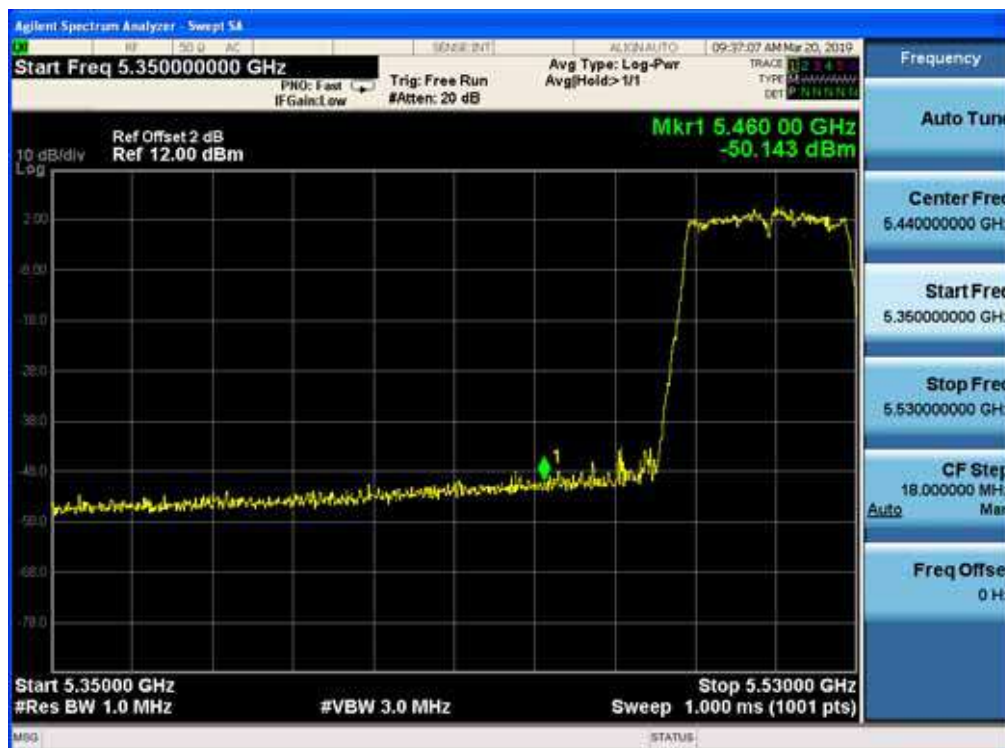
5190MHz by 802.11n(40MHz):



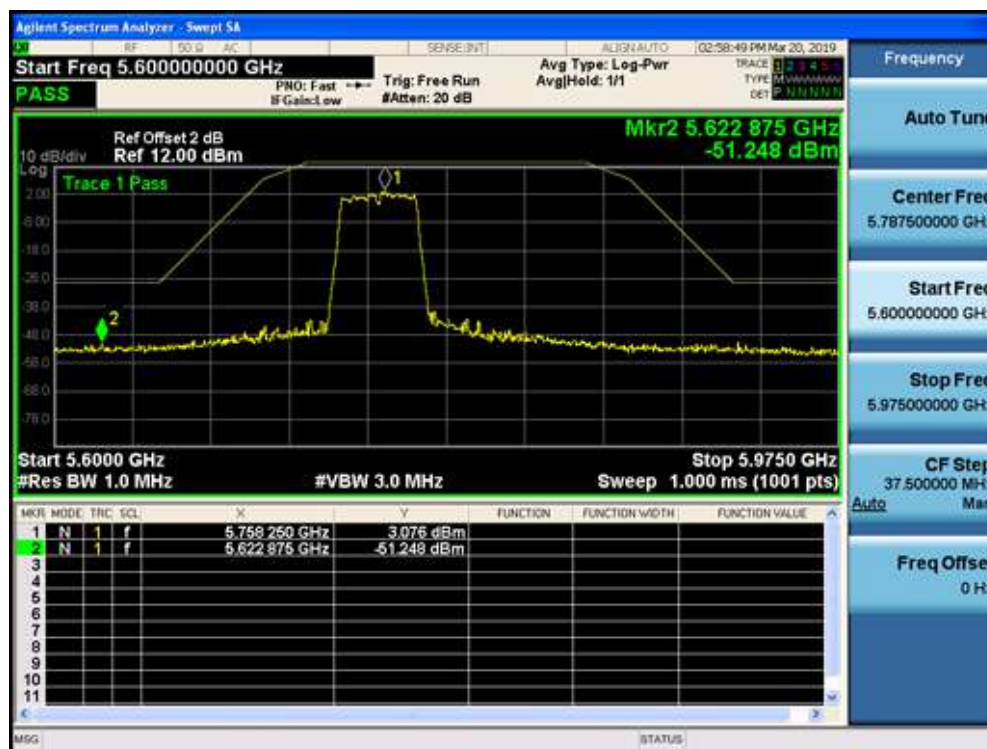
5310MHz by 802.11n(40MHz):



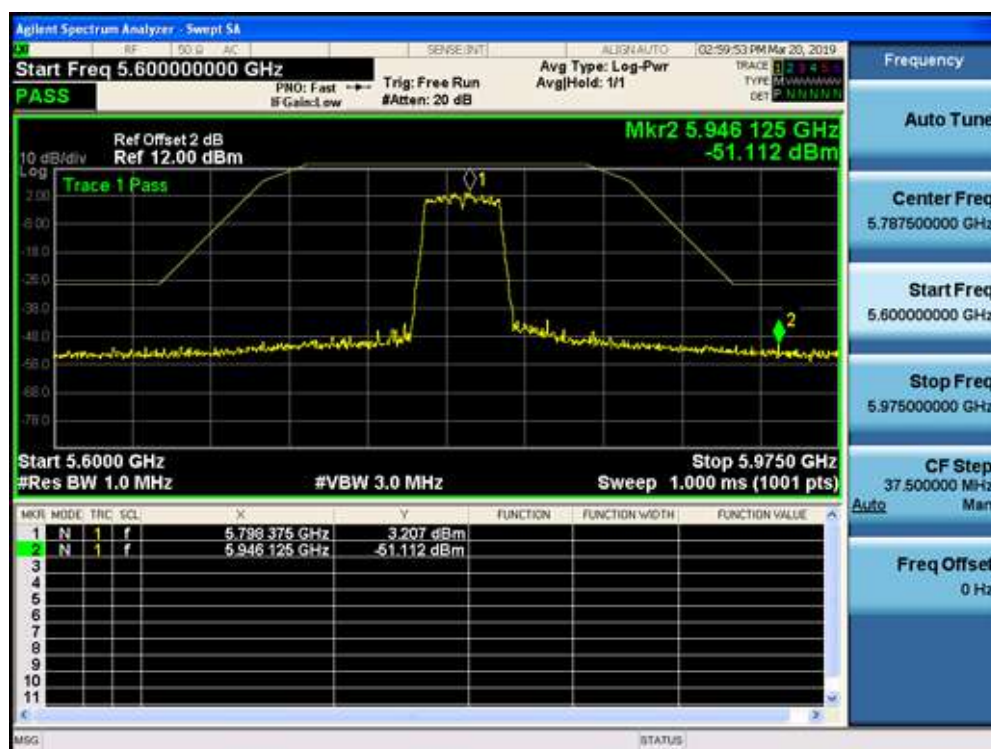
5510MHz by 802.11n(40MHz):



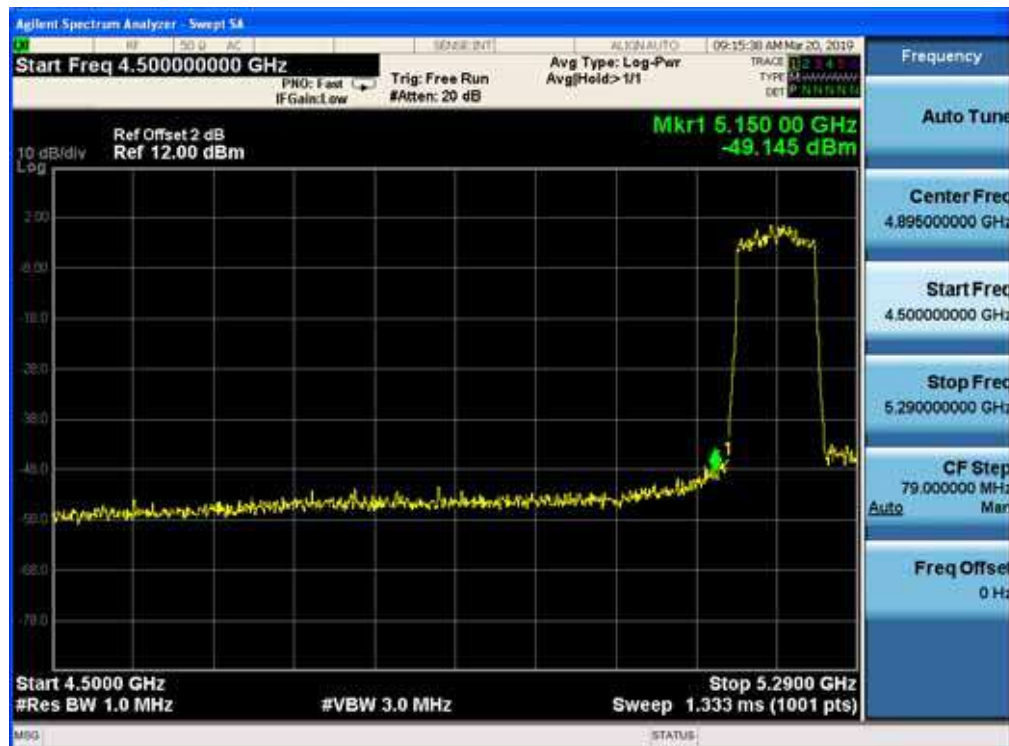
5755MHz by 802.11n(40MHz):



5795MHz by 802.11n(40MHz):



5210MHz by 802.11ac(80MHz):



5290MHz by 802.11ac(80MHz):



5530MHz by 802.11ac(80MHz):



5775MHz by 802.11ac(80MHz):



MIMO AV Limit= $54\text{dBuV/m}-95.2-10\lg 2(2\text{tx})-6.6(\text{Directional Gain})=-50.8\text{dBm}$
5180MHz by 802.11a:



5320MHz by 802.11a:



5500MHz by 802.11a:



5180MHz by 802.11n(20MHz):



5320MHz by 802.11n(20MHz):



5500MHz by 802.11n(20MHz):



5190MHz by 802.11n(40MHz):



5310MHz by 802.11n(40MHz):



5510MHz by 802.11n(40MHz):



5210MHz by 802.11ac(80MHz):



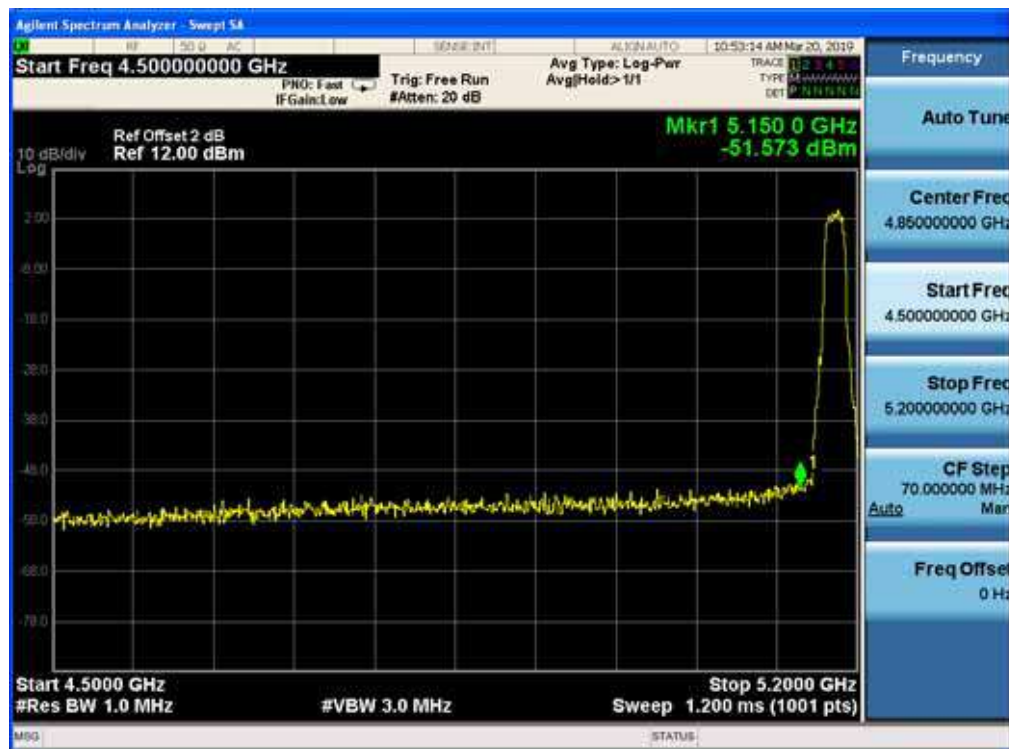
5290MHz by 802.11ac(80MHz):



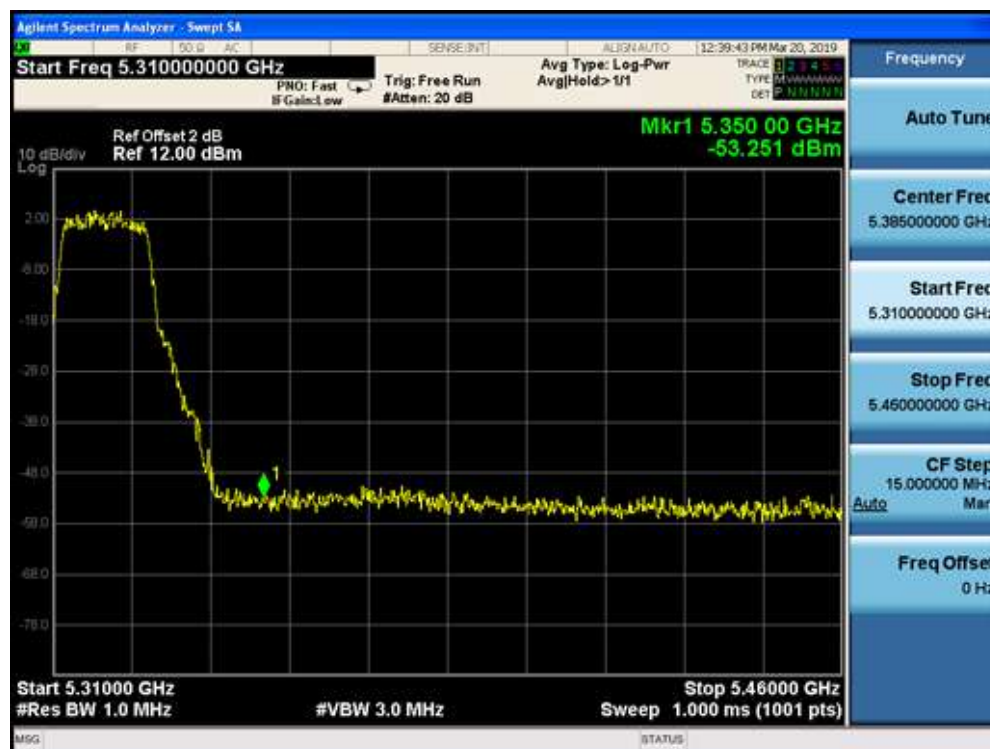
5530MHz by 802.11ac(80MHz):



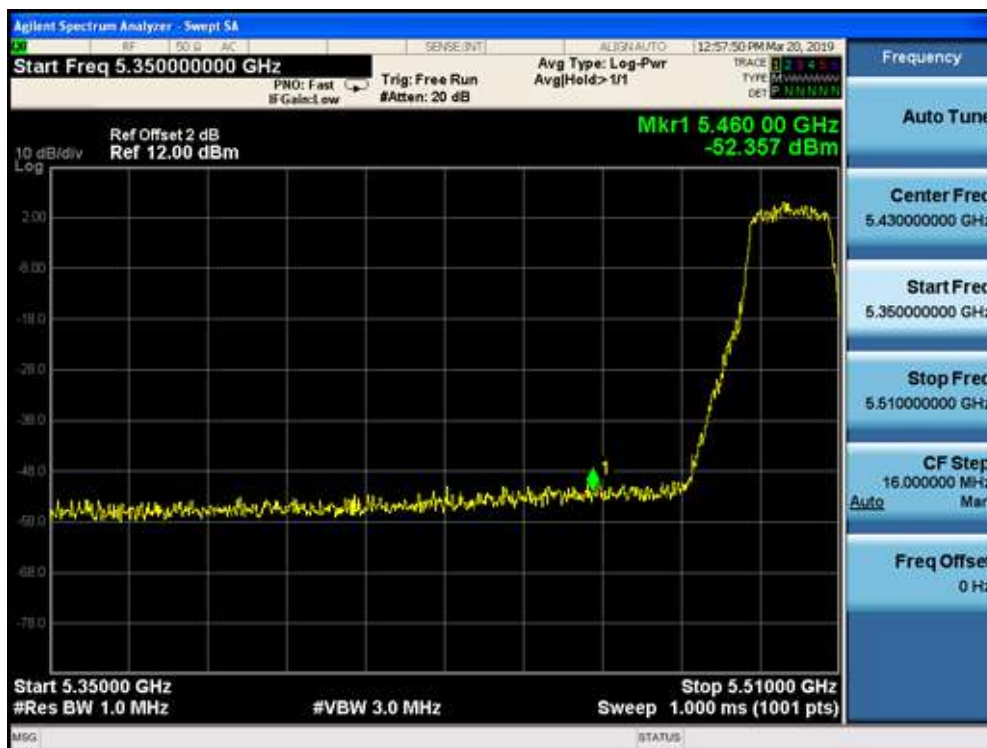
MIMO PK Limit=74dBuV/m-95.2-10lg2(2tx)-6.6(Directional Gain)=-30.8dBm
5180MHz by 802.11a:



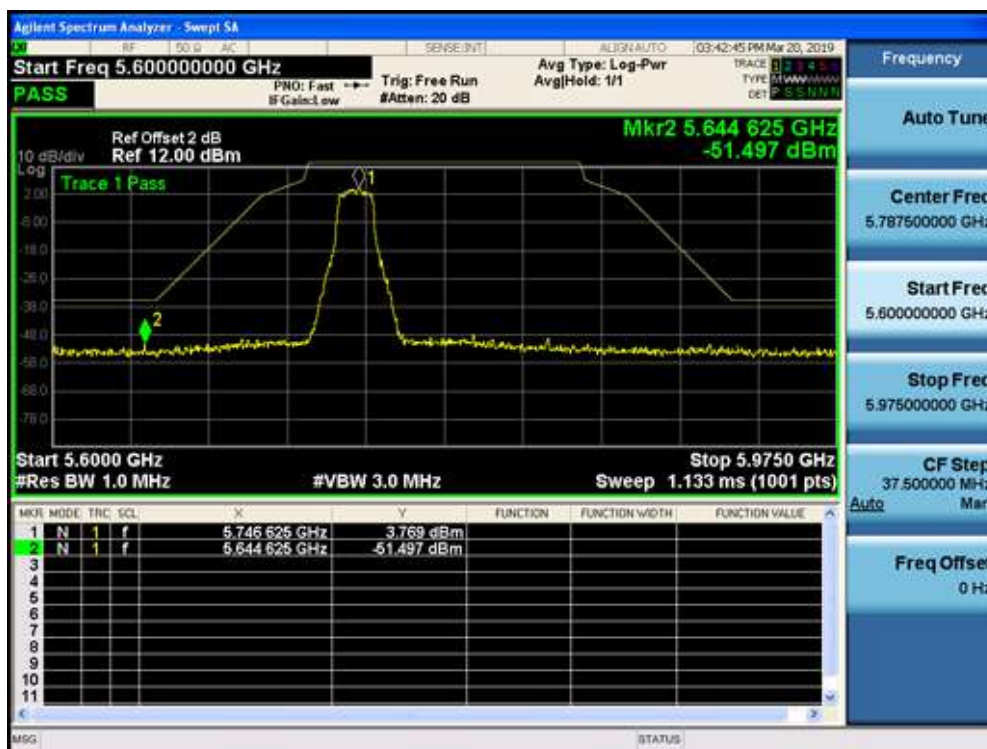
5320MHz by 802.11a:



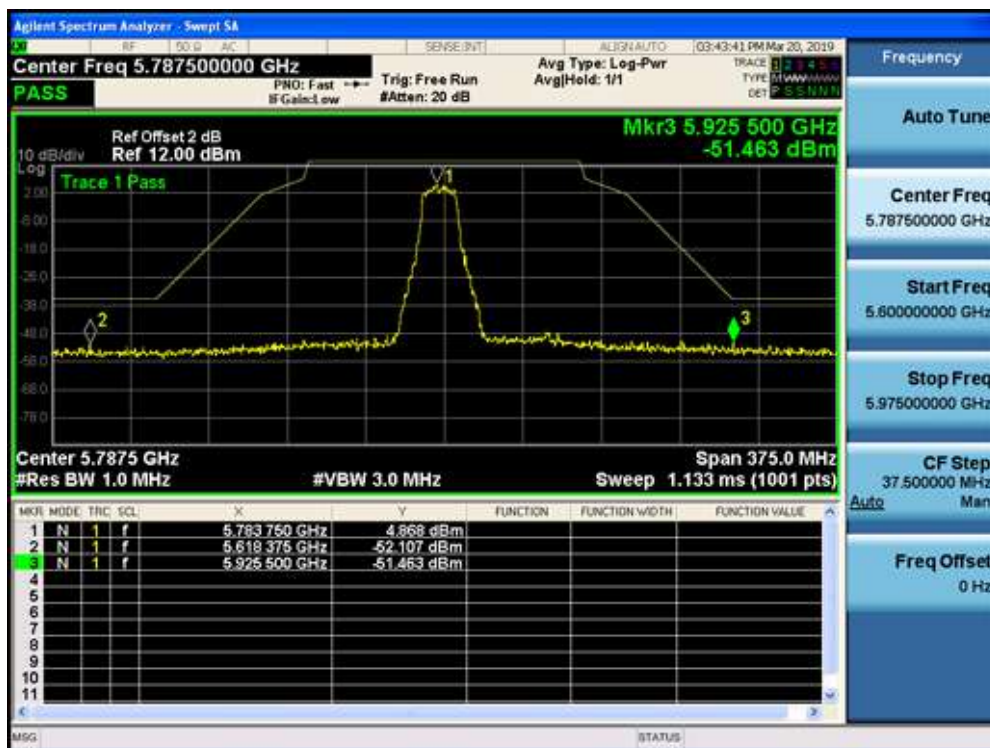
5500MHz by 802.11a:



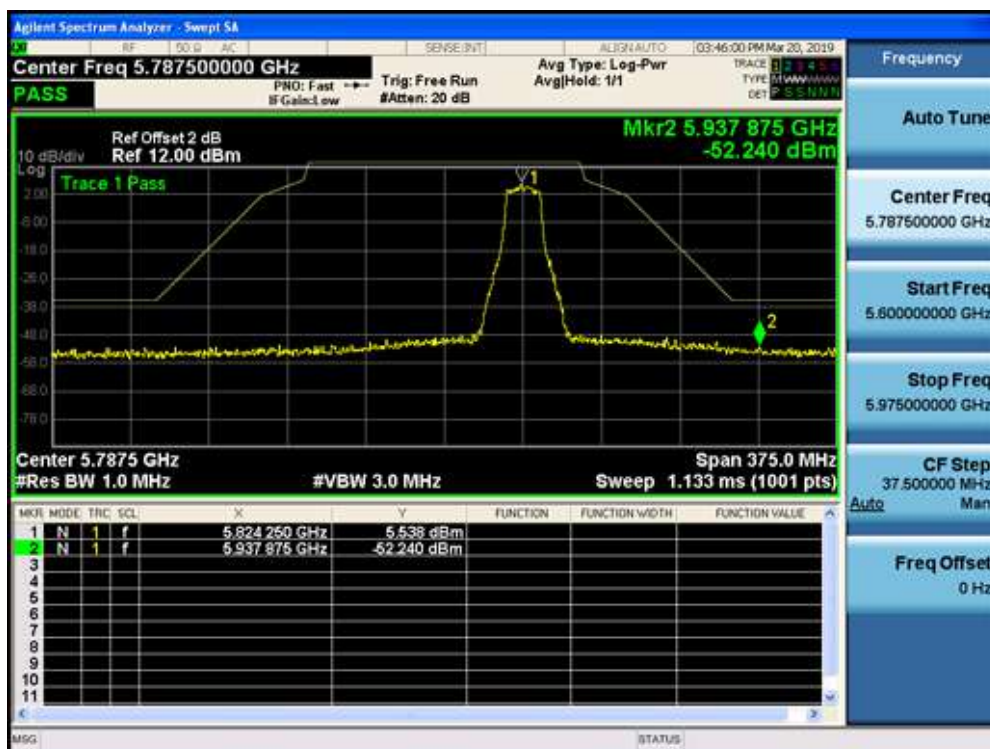
5745MHz by 802.11a:



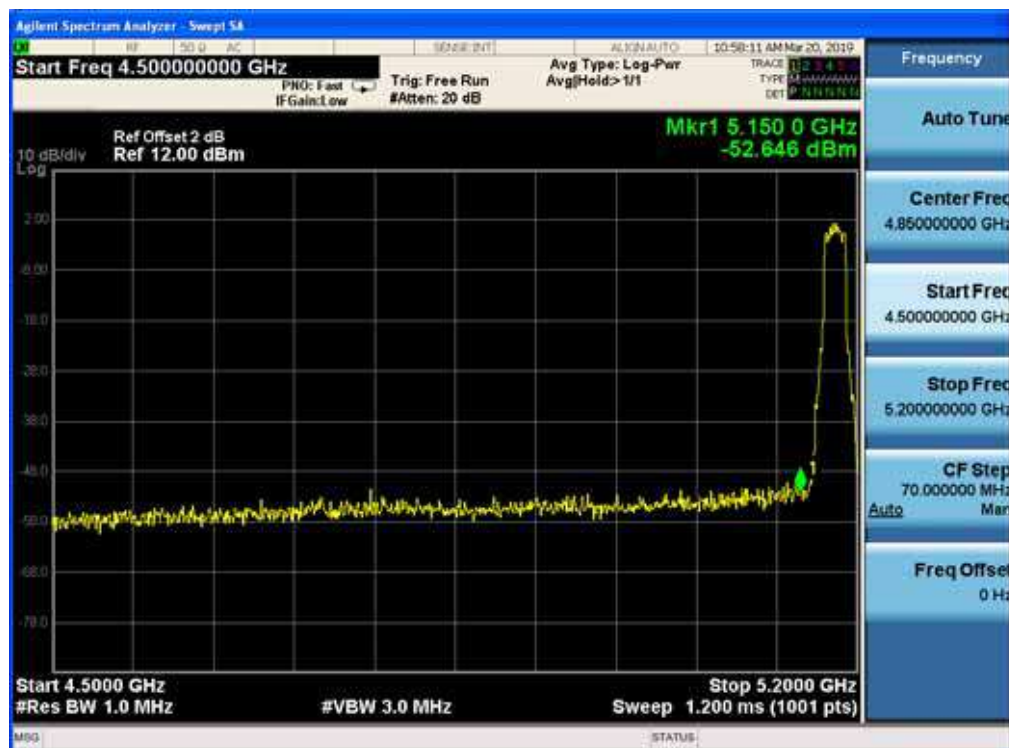
5785MHz by 802.11a:



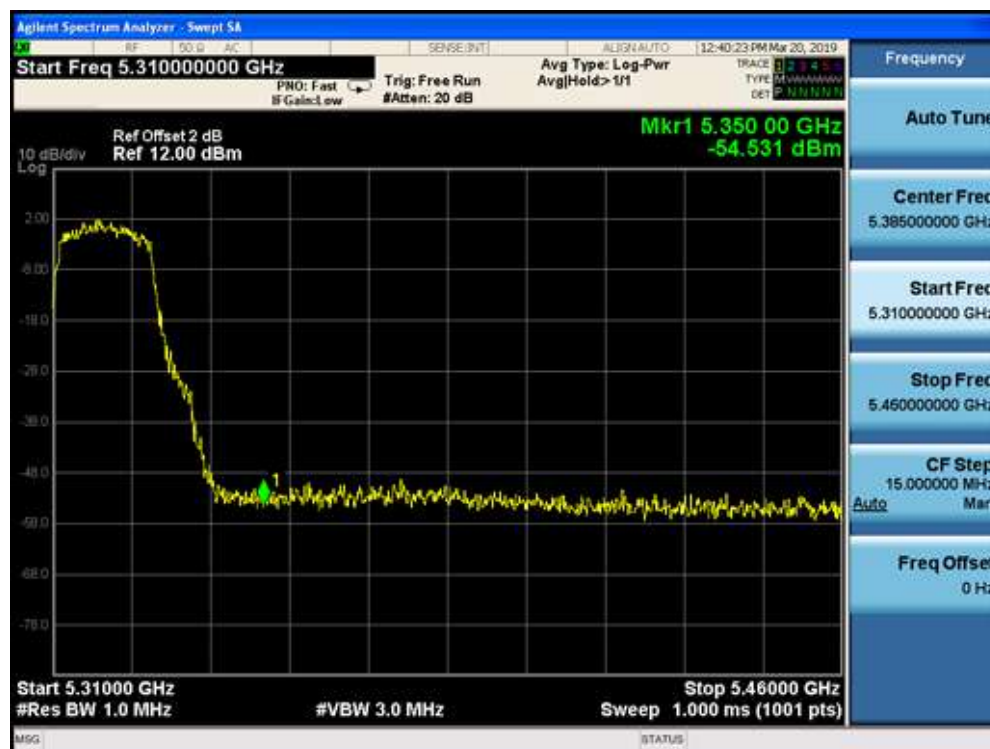
5825MHz by 802.11a:



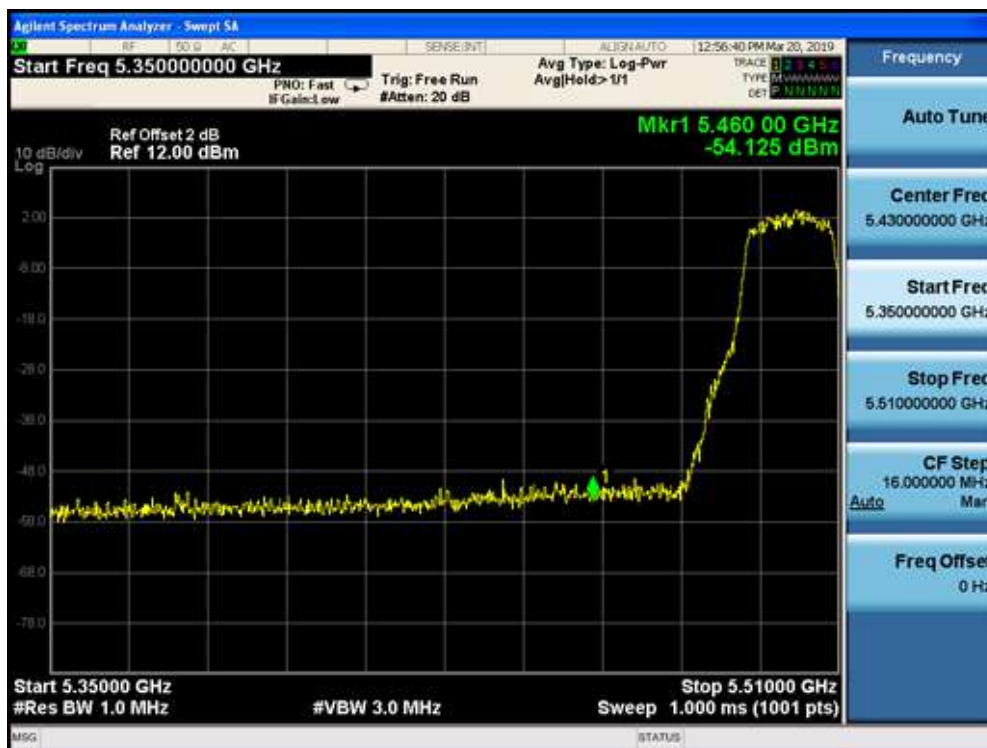
5180MHz by 802.11n(20MHz):



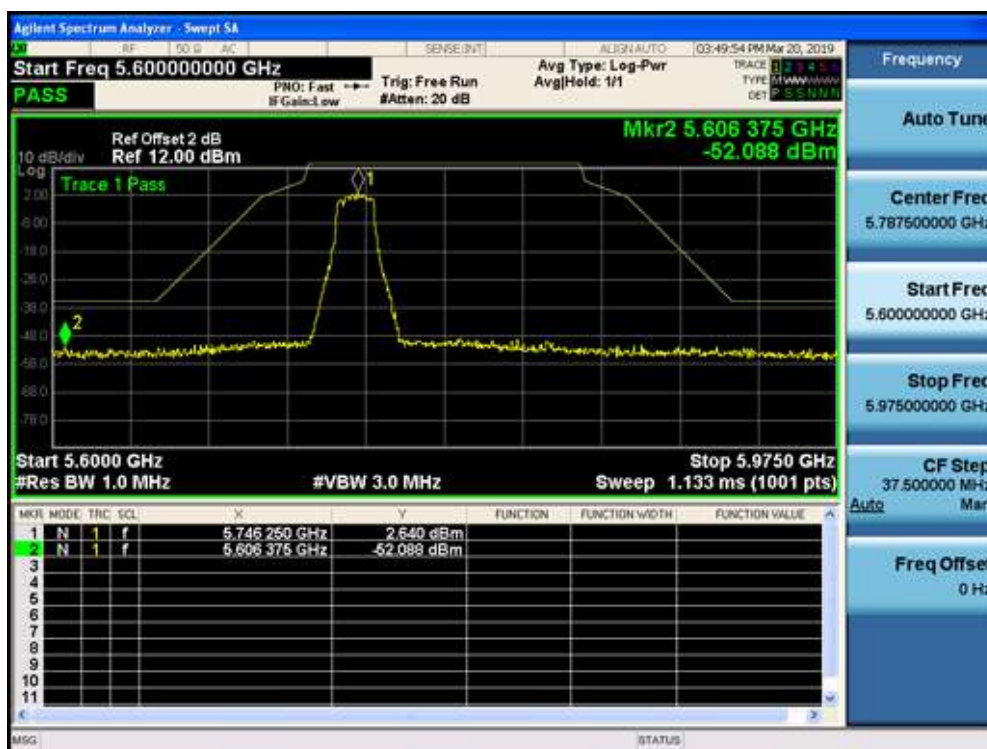
5320MHz by 802.11n(20MHz):



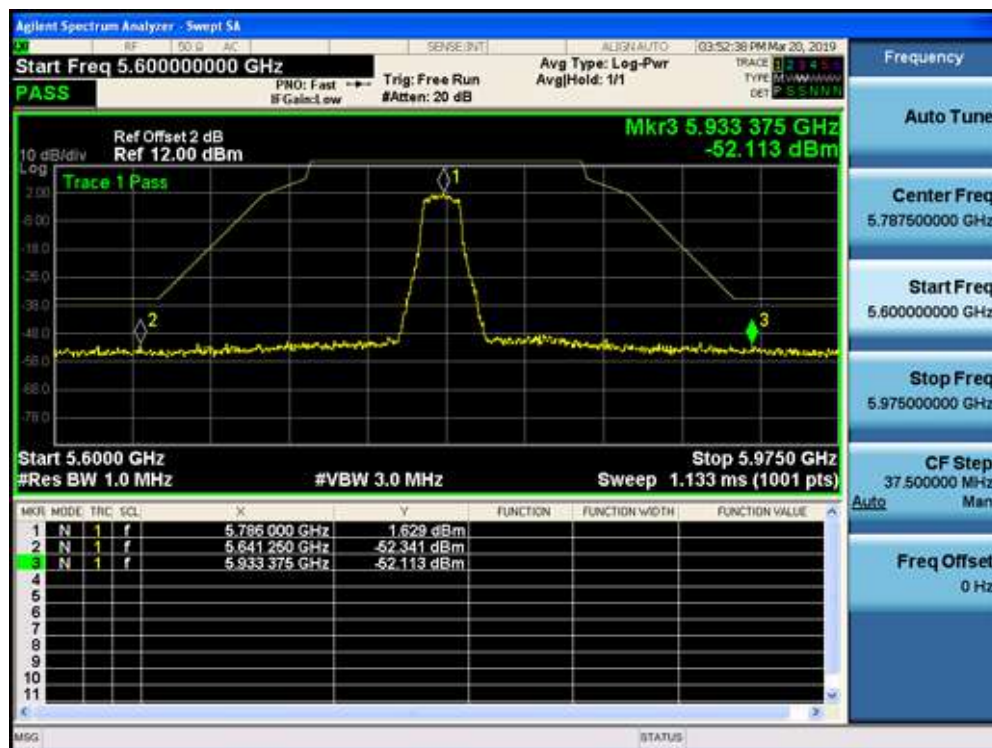
5500MHz by 802.11n(20MHz):



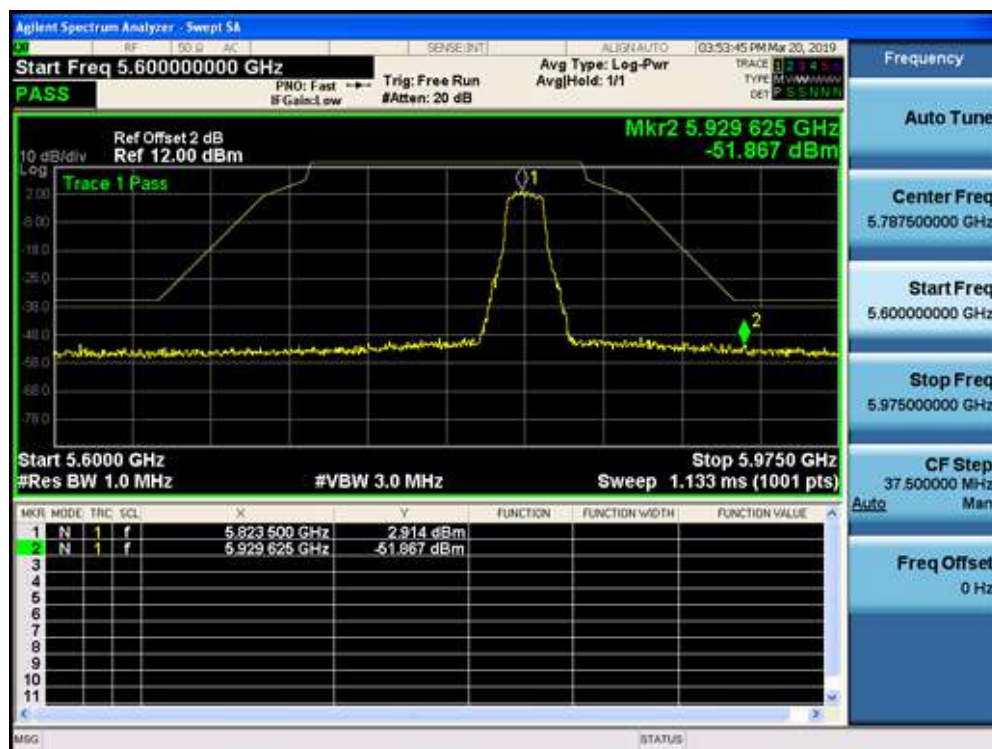
5745MHz by 802.11n(20MHz):



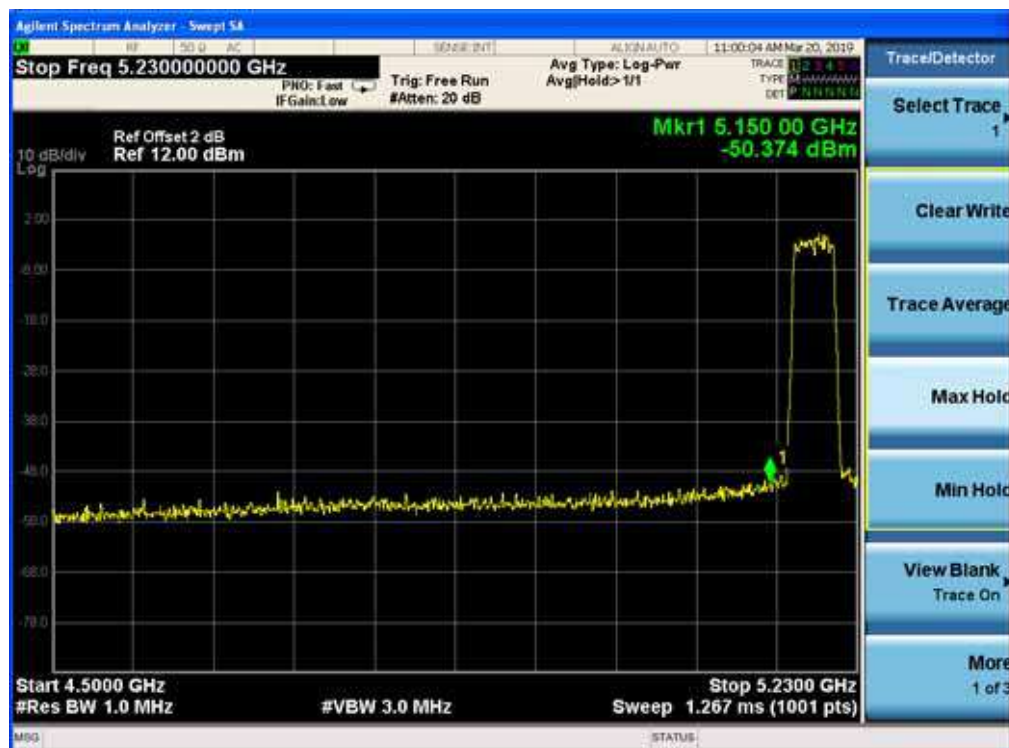
5785MHz by 802.11n(20MHz):



5825MHz by 802.11n(20MHz):



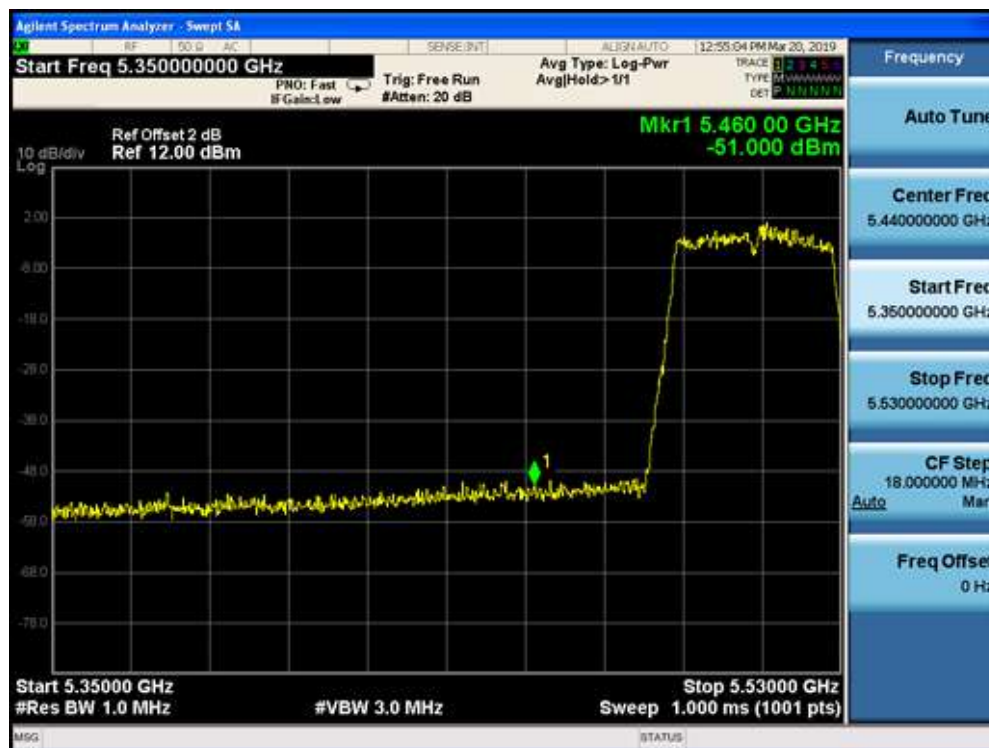
5190MHz by 802.11n(40MHz):



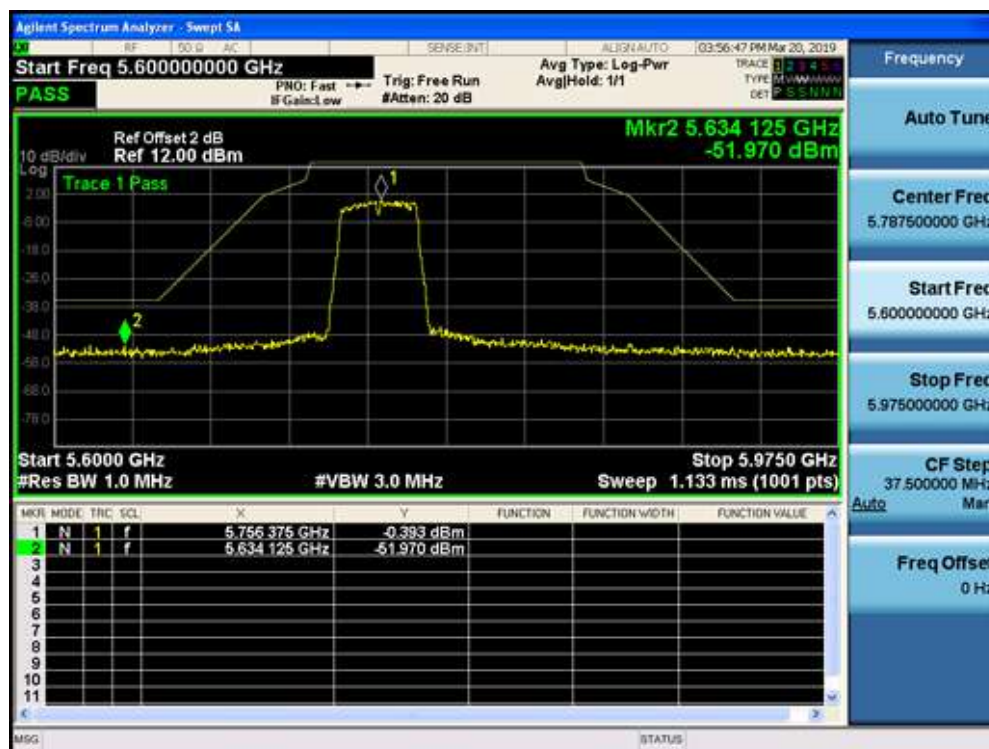
5310MHz by 802.11n(40MHz):



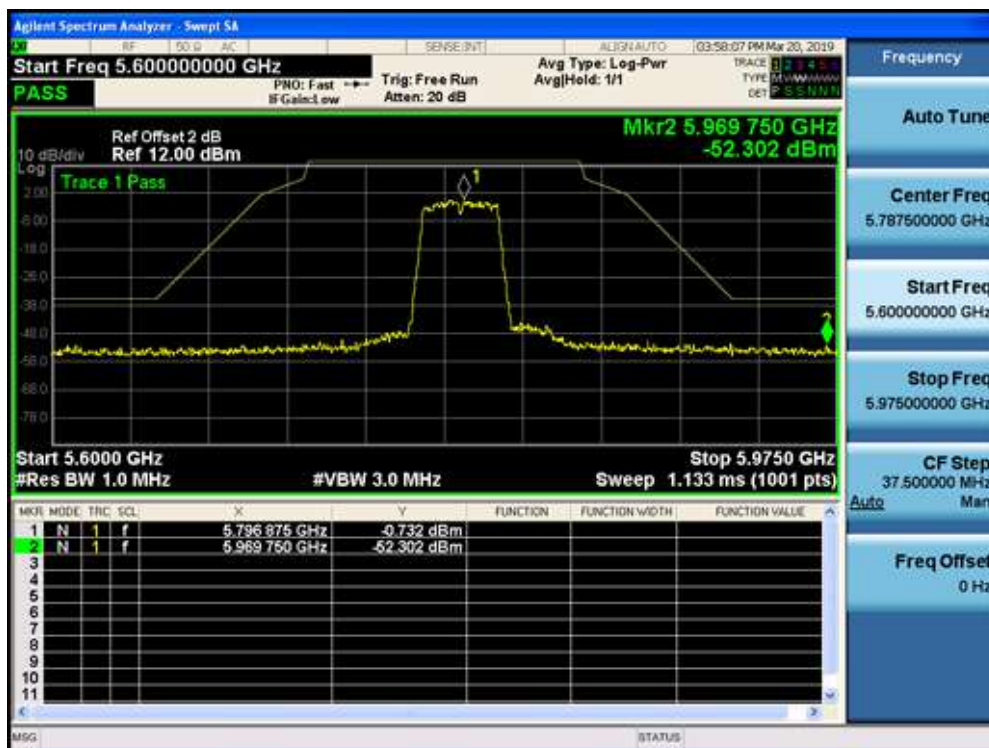
5510MHz by 802.11n(40MHz):



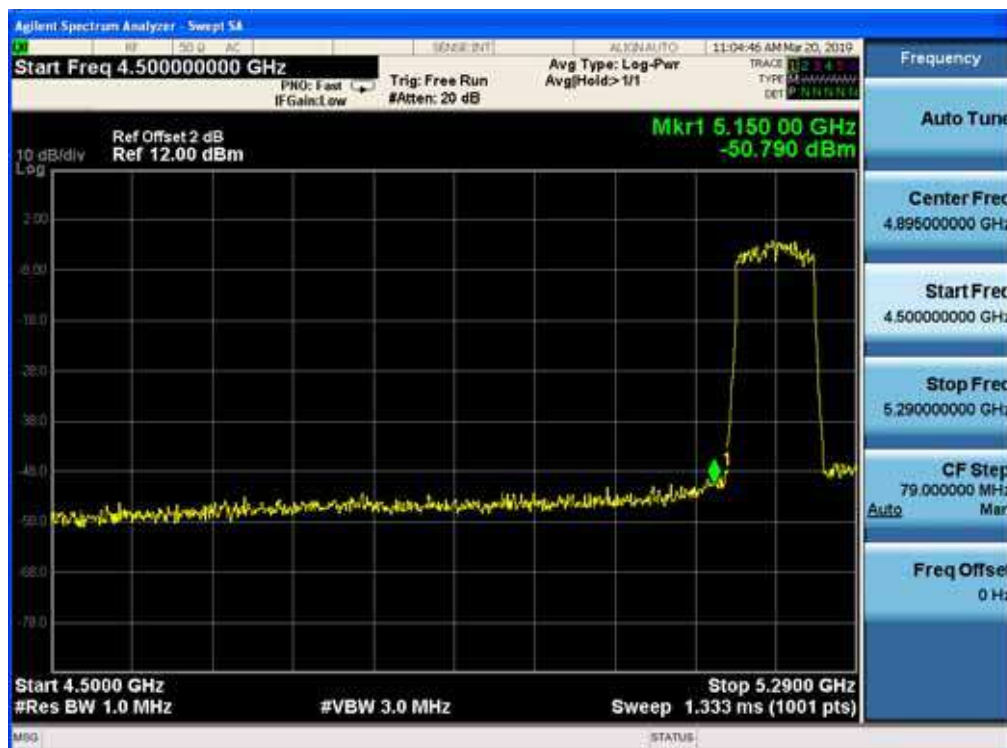
5755MHz by 802.11n(40MHz):



5795MHz by 802.11n(40MHz):



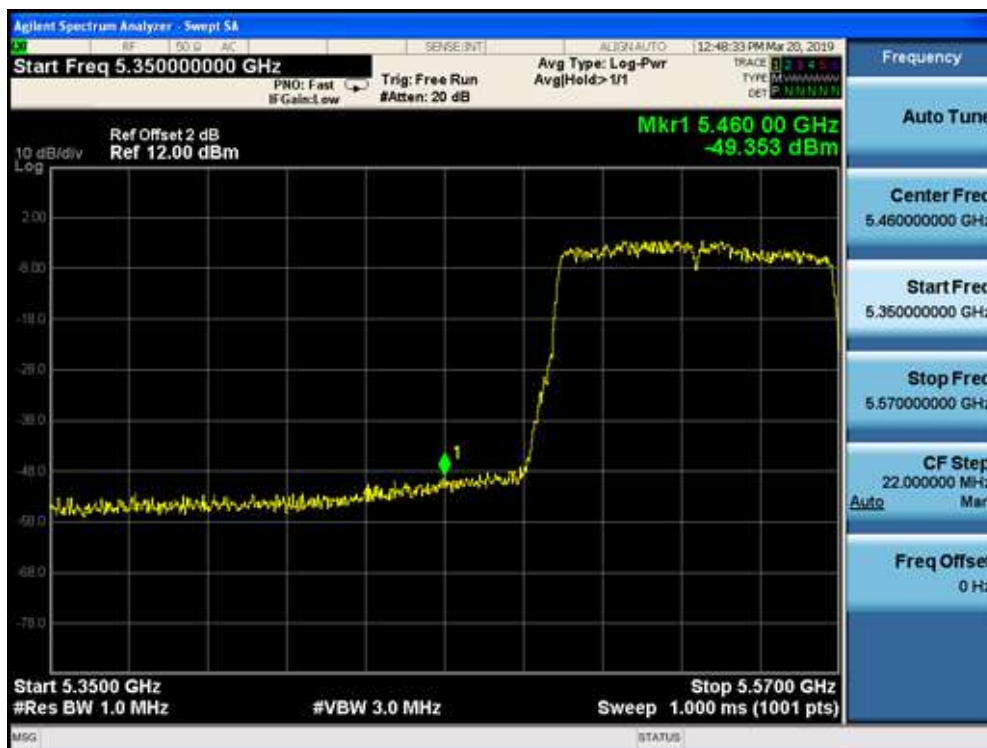
5210MHz by 802.11ac(80MHz):



5290MHz by 802.11ac(80MHz):



5530MHz by 802.11ac(80MHz):



5775MHz by 802.11ac(80MHz):



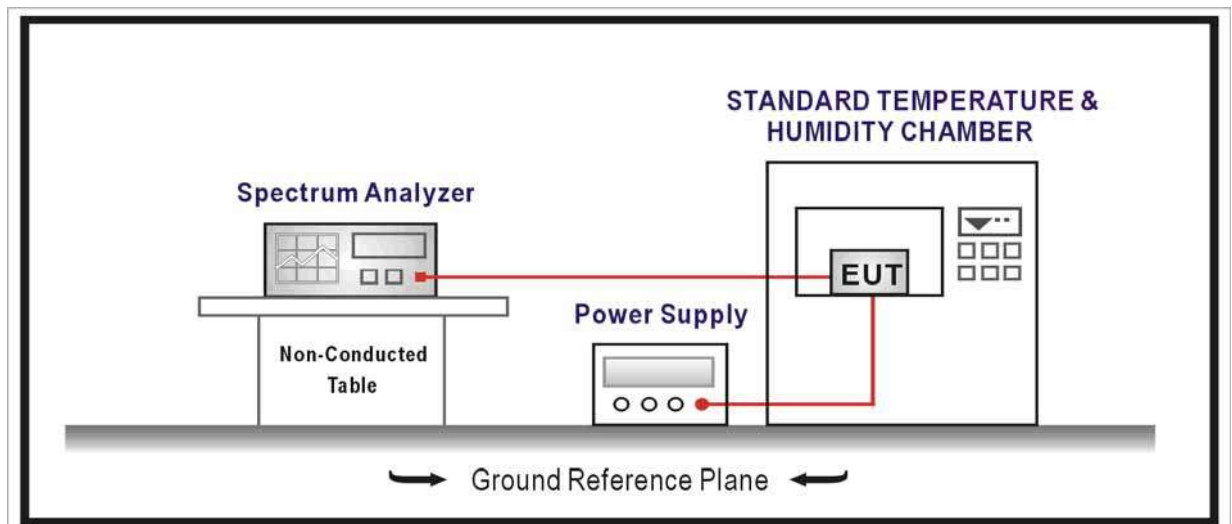
10. Frequency Stability

10.1. Test Equipment

Frequency Stability / TR-7					
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2019.02.04	2020.02.03
EXA Spectrum Analyzer	Keysight	N9010A	MY55370495	2018.04.09	2019.04.08
MXA Signal Analyzer	Keysight	N9020A	MY56060147	2018.04.09	2019.04.08
AC Power Supply	IDRC	CF-500TP	979422	2018.09.16	2019.09.15
DC Power Supply	IDRC	CD-035-020PR	977272	2018.09.16	2019.09.15
Programmable Temperature & Humidity Chamber	Gaoyu	TH-1P-B	WIT-05121302	2019.01.04	2020.01.03
Temperature/Humidity Meter	zhichen	ZC1-2	TR7-TH	2018.04.10	2019.04.09

Note: All equipment are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

10.2. Test Setup



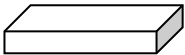
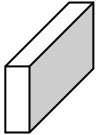
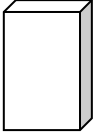
10.3. Limit

Frequency Stability Limit	
UNII Devices	
☒	In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.
IEEE Std. 802.11n-2009	
☒	The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band and ± 25 ppm maximum for the 2.4 GHz band.

10.4. Test Procedure

Frequency Stability Test Method				
	References Rule		Chapter	Description
☒	ANSI C63.10		6.8	Frequency stability tests
	☒	ANSI C63.10	6.8.1	Frequency stability with respect to ambient temperature
	☒	ANSI C63.10	6.8.2	Frequency stability when varying supply voltage

10.5. EUT test Axis definition

Item	Frequency Stability			
Device Category	☐	Indoor use		
	☐	Outdoor use		
	☐	Fix position use		
	☒	Client use		
Test mode	Mode 1-6			
Test method	☐	Radiated		
		X Axis	Y Axis	Z Axis
				
		Worst Axis ☐	Worst Axis ☐	Worst Axis ☐
	☒	Conducted		
	☐	Chain 1		
				
	☒	Chain 1	Chain 2	
				
	☐	Chain 1	Chain 2	Chain 3
				

10.6. Test Result

Product Name	: REALMAX-QIAN	Power	: AC 120V/60Hz
Test Mode	: Carrier Wave	Test Site	: TR8
Test Date	: 2019.03.23	Test Engineer	: Simon

Frequency Stability under Temperature at 0min

Temperature Interval ()	Test Frequency (MHz)	Deviation (Hz)	ppm	Limit
-30	5220.000	-89	-0.017	± 20
-20	5220.000	215	0.041	± 20
-10	5220.000	138	0.026	± 20
0	5220.000	85	0.016	± 20
10	5220.000	-76	-0.015	± 20
20	5220.000	146	0.028	± 20
30	5220.000	-109	-0.021	± 20
40	5220.000	-132	-0.025	± 20
50	5220.000	48	0.009	± 20

Frequency Stability under Temperature at 2min

Temperature Interval ()	Test Frequency (MHz)	Deviation (Hz)	ppm	Limit
-30	5220.000	-152	-0.029	± 20
-20	5220.000	131	0.025	± 20
-10	5220.000	62	0.012	± 20
0	5220.000	-43	-0.008	± 20
10	5220.000	-84	-0.016	± 20
20	5220.000	145	0.028	± 20
30	5220.000	-126	-0.024	± 20
40	5220.000	-98	-0.019	± 20
50	5220.000	127	0.024	± 20

Frequency Stability under Temperature at 5min

Temperature Interval ()	Test Frequency (MHz)	Deviation (Hz)	ppm	Limit
-30	5220.000	107	0.020	± 20
-20	5220.000	-212	-0.041	± 20
-10	5220.000	141	0.027	± 20
0	5220.000	74	0.014	± 20
10	5220.000	-173	-0.033	± 20
20	5220.000	-154	-0.030	± 20
30	5220.000	-218	-0.042	± 20
40	5220.000	73	0.014	± 20
50	5220.000	-130	-0.025	± 20

Frequency Stability under Temperature at 10min

Temperature Interval ()	Test Frequency (MHz)	Deviation (Hz)	ppm	Limit
-30	5220.000	108	0.021	± 20
-20	5220.000	-132	-0.025	± 20
-10	5220.000	-172	-0.033	± 20
0	5220.000	216	0.041	± 20
10	5220.000	-77	-0.015	± 20
20	5220.000	102	0.020	± 20
30	5220.000	-47	-0.009	± 20
40	5220.000	-85	-0.016	± 20
50	5220.000	-91	-0.017	± 20

Frequency Stability under Voltage

AC Voltage (V)	Test Frequency (MHz)	Deviation (Hz)	ppm	Limit
102	5220.000	-203	-0.039	± 20
120	5220.000	236	0.045	± 20
138	5220.000	228	0.044	± 20

11. Antenna Requirement

11.1. 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.	

11.2. 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 _____