



**CFR 47 FCC PART 15 SUBPART E  
CERTIFICATION TEST REPORT**

*For*

**WisePOS 4G**

**MODEL NUMBER: WisePOS 4G**

**FCC ID: 2AB7X-WISEPOS4G**

**REPORT NUMBER: 4788704908.1-4**

**ISSUE DATE: November 13, 2018**

*Prepared for*

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	11/13/2018	Initial Issue	



Summary of Test Results			
Clause	Test Items	FCC/IC Rules	Test Results
1	6dB/26dB Bandwidth	FCC 15.407 (a)&(e)	PASS
2	Maximum Conducted Output Power	FCC 15.407 (a)	PASS
3	Power Spectral Density	FCC 15.407 (a)	PASS
4	Antenna Conducted Spurious Emission	FCC 15.407 (b)	PASS
5	Radiated Bandedge and Spurious Emission	FCC 15.407 (a) FCC 15.209 FCC 15.205	PASS
6	Conducted Emission Test For AC Power Port	FCC 15.207	PASS
7	Frequency Stability	FCC 15.407 (g)	PASS
8	Dynamic Frequency Selection	FCC 15.407 (h)	PASS
9	Antenna Requirement	FCC 15.203	PASS



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## 1. ATTESTATION OF TEST RESULTS

### Applicant Information

Company Name: BBPOS International Limited  
Address: Suite 1903-04, Tower 2, Nina Tower, 8 Yeung Uk Road, Tsuen Wan, NT, Hong Kong

### Manufacturer Information

Company Name: BBPOS International Limited  
Address: Suite 1903-04, Tower 2, Nina Tower, 8 Yeung Uk Road, Tsuen Wan, NT, Hong Kong

### EUT Description

EUT Name: WisePOS 4G  
Model: WisePOS 4G  
Brand Name: BBPOS  
Sample Status: Normal  
Sample Received Date: October 15, 2018  
Date of Tested: October 29, 2018 ~ November 07, 2018

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 15 SUBPART E	PASS

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## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2013, CFR 47 FCC Part 2, CFR 47 FCC Part 15, KDB 789033 D02 v02r01, RSS-GEN Issue 5, RSS-247 Issue 2, KDB414788 D01 Radiated Test Site v01, KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 and 905462 C Client Without DFS New Rules v01r02.

## 3. FACILITIES AND ACCREDITATIO

Accreditation Certificate	<p><b>A2LA (Certificate No.: 4102.01)</b> UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.</p> <p><b>FCC (FCC Designation No.: CN1187)</b> UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Delcaration of Conformity (DoC) and Certification rules</p> <p><b>IC(Company No.: 21320)</b> UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with Industry Canada. The Company Number is 21320.</p> <p><b>VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)</b> UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20019 and R-20004 Shielding Room B , the VCCI registration No. is C-20012 and T-20011</p>
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Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

Note 2: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30MHz had been correlated to measurements performed on an OATS.



## 4. CALIBRATION AND UNCERTAINTY

### 4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognize national standards.

### 4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
Uncertainty for Conduction emission test	3.62dB
Uncertainty for Radiation Emission test(include Fundamental emission) (9KHz-30MHz)	2.2dB
Uncertainty for Radiation Emission test(include Fundamental emission) (30MHz-1GHz)	4.00dB
Uncertainty for Radiation Emission test (1GHz to 40GHz)( include Fundamental emission)	5.78dB(1-18GHz)
	5.23dB (18GHz-26Gz)
	5.64dB (26GHz-40Gz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	





## 5. EQUIPMENT UNDER TEST

### 5.1. DESCRIPTION OF EUT

EUT Name	WisePOS 4G
Model	WisePOS 4G
Radio Technology	IEEE802.11a/n HT20/n HT40
Operation frequency	UNII-1/UNII-2A/UNII-2C/UNII-3
Modulation	OFDM(BPSK,QPSK,16QAM,64QAM)
Rated Input	5V/1A
Battery	2450mAh/ 9.31Wh 3.8V



## 5.2. CHANNEL LIST

20 MHz Bandwidth Channel frequencies		
Band	Channel	Frequency (MHz)
UNII-1	36	5180
	40	5200
	44	5220
	48	5240
UNII-2A	52	5260
	56	5280
	60	5300
	64	5320
UNII-2C	100	5500
	104	5520
	108	5540
	112	5560
	116	5580
	120	5600
	124	5620
	128	5640
	132	5660
	136	5680
UNII-3	140	5700
	149	5745
	153	5765
	157	5785
	161	5805
	165	5825



40 MHz Bandwidth Channel frequencies		
Band	Channel	Frequency (MHz)
UNII-1	38	5190
	46	5230
UNII-2	54	5270
	62	5310
UNII-2C	102	5510
	110	5550
	118	5590
	126	5630
	134	5670
UNII-3	151	5755
	159	5795



### 5.3. DESCRIPTION OF AVAILABLE ANTENNAS

Ant.	Frequency (MHz)	Antenna Type	Antenna Gain (dBi)
A	5150-5250	PIFA	-2.5
	5250-5350	PIFA	-2.5
	5470-5725	PIFA	-2.5
	5725-5825	PIFA	-2.5

Test Mode	Transmit and Receive Mode	Description
802.11a	1TX, 1RX	can be can be used as transmitting/receiving antenna.
802.11n HT20	1TX, 1RX	can be can be used as transmitting/receiving antenna.
802.11n HT40	1TX, 1RX	can be can be used as transmitting/receiving antenna.



#### 5.4. TEST ENVIRONMENT

Environment Parameter	Selected Values During Tests	
Relative Humidity	35 ~ 75%	
Atmospheric Pressure:	1025Pa	
Temperature	TN	18 ~ 35°C
Voltage :	VL	3.23V
	VN	3.80V
	VH	4.35V

Note: VL= Lower Extreme Test Voltage  
VN= Nominal Voltage  
VH= Upper Extreme Test Voltage  
TN= Normal Temperature



## 5.5. WORST-CASE CONFIGURATIONS

IEE Std. 802.11	Modulation Technology	Modulation Type	Data Rate (Mbps)	Worst Case (Mbps)
a	OFDM	BPSK, QPSK, 16QAM, 64QAM	54/48/36/24/18/12/9/6	6

IEE Std. 802.11	Modulation Technology	Modulation Type	Data Rate	Worst Case
n HT20	OFDM	BPSK, QPSK, 16QAM, 64QAM	(MCS0~MCS7)	MCS0
n HT40	OFDM	BPSK, QPSK, 16QAM, 64QAM	(MCS0~MCS7)	MCS0



## 5.6. DESCRIPTION OF TEST SETUP

### SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	P/N
1	High Pass Filter	Wainwright	WHKX10-5850-6500-1800-40SS	4
2	Band Reject Filter	Wainwright	WRCJV20-5120-5150-5350-5380-60SS	2
3	Band Reject Filter	Wainwright	WRCJV20-5440-5470-5725-5755-60SS	1
4	Band Reject Filter	Wainwright	WRCJV12-5695-5725-5850-5880-40SS	4

Note: The above items only use for radiated test.

### I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	USB	/	/	0.5	/

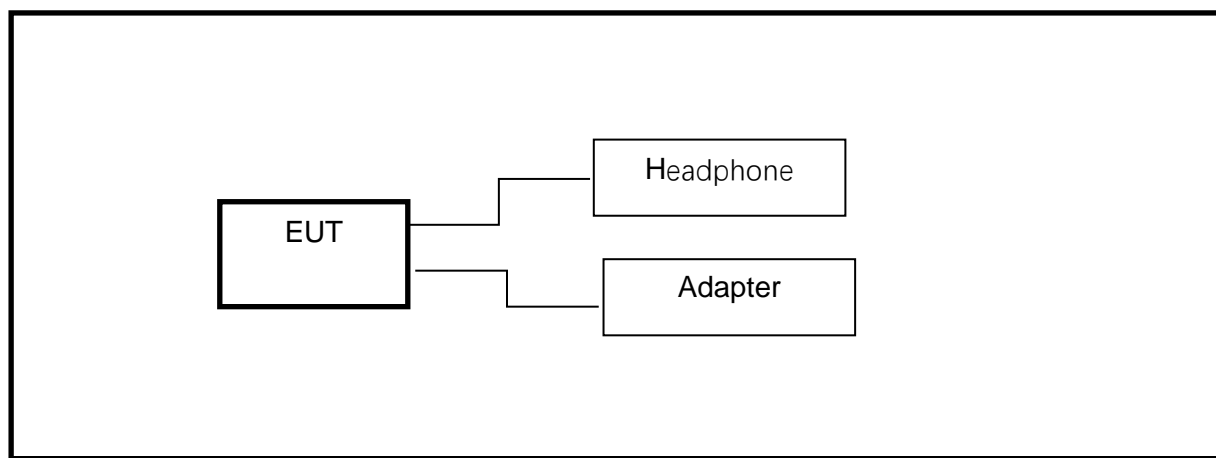
### ACCESSORIES

Item	Accessory	Brand Name	Model Name	Description
1	Headphone	SONY	MDR-ZX310	/
2	Adapter	XIAOMI	MDY-08-EF	5V/1A
3	Access Point	ASUS	RFAC68U	2.4G/5G

### TEST SETUP

The EUT can work in engineering mode through command.

### SETUP DIAGRAM FOR TESTS





## 5.7. MEASURING INSTRUMENT AND SOFTWARE USED

Conducted Emissions						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
<input checked="" type="checkbox"/>	EMI Test Receiver	R&S	ESR3	101961	Dec.12,2017	Dec.11,2018
<input checked="" type="checkbox"/>	Two-Line V- Network	R&S	ENV216	101983	Dec.12,2017	Dec.11,2018
Software						
Used	Description		Manufacturer	Name		Version
<input checked="" type="checkbox"/>	Test Software for Conducted disturbance		UL	Antenna port		Ver. 7.2
Radiated Emissions						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
<input checked="" type="checkbox"/>	MXE EMI Receiver	KESIGHT	N9038A	MY56400 036	Dec.12,2017	Dec.11,2018
<input checked="" type="checkbox"/>	Hybrid Log Periodic Antenna	TDK	HLP-3003C	130960	Jan.09, 2016	Jan.09, 2019
<input checked="" type="checkbox"/>	Preamplifier	HP	8447D	2944A090 99	Dec.12,2017	Dec.11,2018
<input checked="" type="checkbox"/>	EMI Measurement Receiver	R&S	ESR26	101377	Dec.12,2017	Dec.11,2018
<input checked="" type="checkbox"/>	Horn Antenna	TDK	HRN-0118	130939	Jan. 09, 2016	Jan. 09, 2019
<input checked="" type="checkbox"/>	High Gain Horn Antenna	Schwarzbeck	BBHA-9170	691	Jan.06, 2016	Jan.06, 2019
<input checked="" type="checkbox"/>	Preamplifier	TDK	PA-02-0118	TRS-305- 00066	Dec.12,2017	Dec.11,2018
<input checked="" type="checkbox"/>	Preamplifier	TDK	PA-02-2	TRS-307- 00003	Dec.12,2017	Dec.11,2018
<input checked="" type="checkbox"/>	Preamplifier	TDK	PA-02-3	TRS-308- 00002	Dec.12,2017	Dec.11,2018
<input checked="" type="checkbox"/>	Loop antenna	Schwarzbeck	1519B	00008	Mar. 26, 2016	Mar. 26, 2019
Software						
Used	Description		Manufacturer	Name		Version
<input checked="" type="checkbox"/>	Test Software for Radiated disturbance		Farad	EZ-EMC		Ver. UL-3A1
Other instruments						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
<input checked="" type="checkbox"/>	Spectrum Analyzer	Keysight	N9030A	MY55410 512	Dec.12,2017	Dec.11,2018
<input checked="" type="checkbox"/>	Power Sensor	Keysight	U2021XA	MY57030 004	Dec.12,2017	Dec.11,2018
R&S TS 8997 Test System For DFS Testing						





Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
<input checked="" type="checkbox"/>	Power sensor, Power Meter	R&S	OSP120	100921	Dec.12,2017	Dec.11,2018
<input checked="" type="checkbox"/>	Vector Signal Generator	R&S	SMBV100A	261637	Dec.12,2017	Dec.11,2018
<input checked="" type="checkbox"/>	Signal Generator	R&S	SMB100A	178553	Dec.12,2017	Dec.11,2018
<input checked="" type="checkbox"/>	Signal Analyzer	R&S	FSV40	A1512015	Dec.12,2017	Dec.11,2018
Software						
Used	Description	Manufacturer	Name		Version	
<input checked="" type="checkbox"/>	For R&S TS 8997 Test System	Rohde & Schwarz	R&S EMC 32		V1.0	



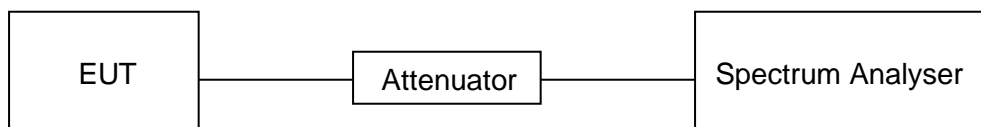
## 6. ANTENNA PORT TEST RESULTS

### 6.1. ON TIME AND DUTY CYCLE

#### LIMITS

None; for reporting purposes only.

#### TEST SETUP



#### TEST ENVIRONMENT

Temperature	24.1°C	Relative Humidity	51%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.8V

#### RESULTS

Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (KHz)	Final setting For VBW (KHz)
11a	1.386	1.426	0.9719	97.19	0.12	0.72	1
11n20	1.295	1.337	0.9685	96.85	0.14	0.77	1
11n40	0.580	0.621	0.9340	93.40	0.30	1.72	2

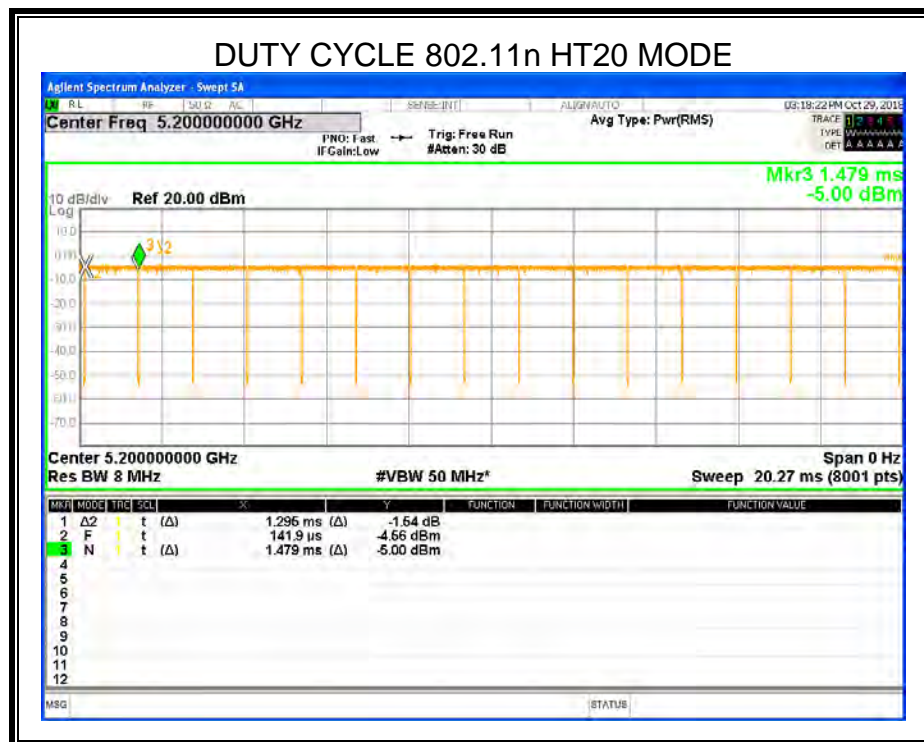
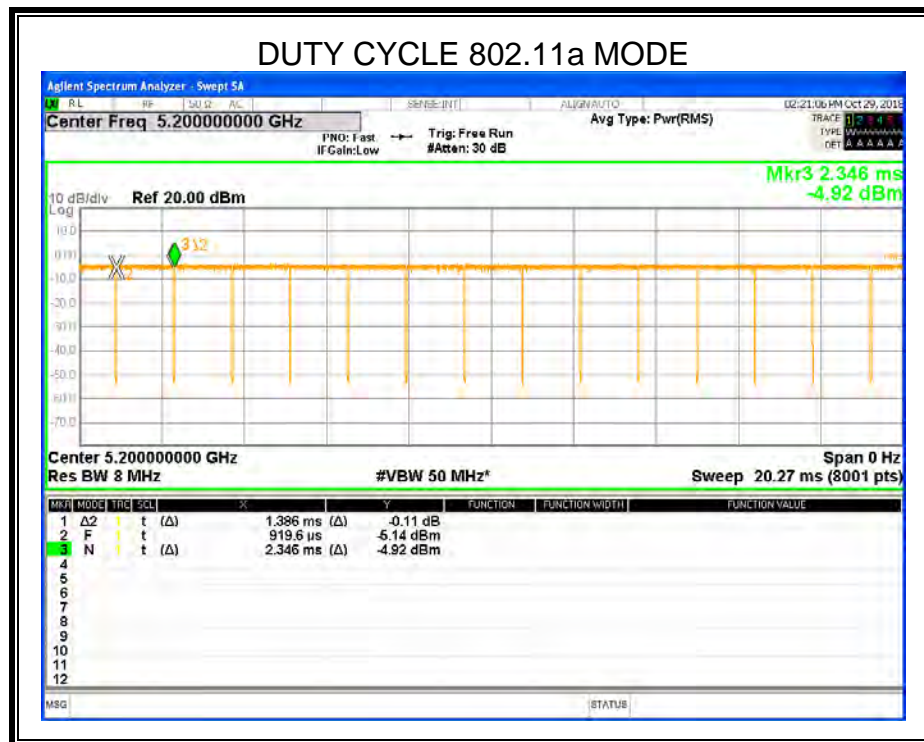
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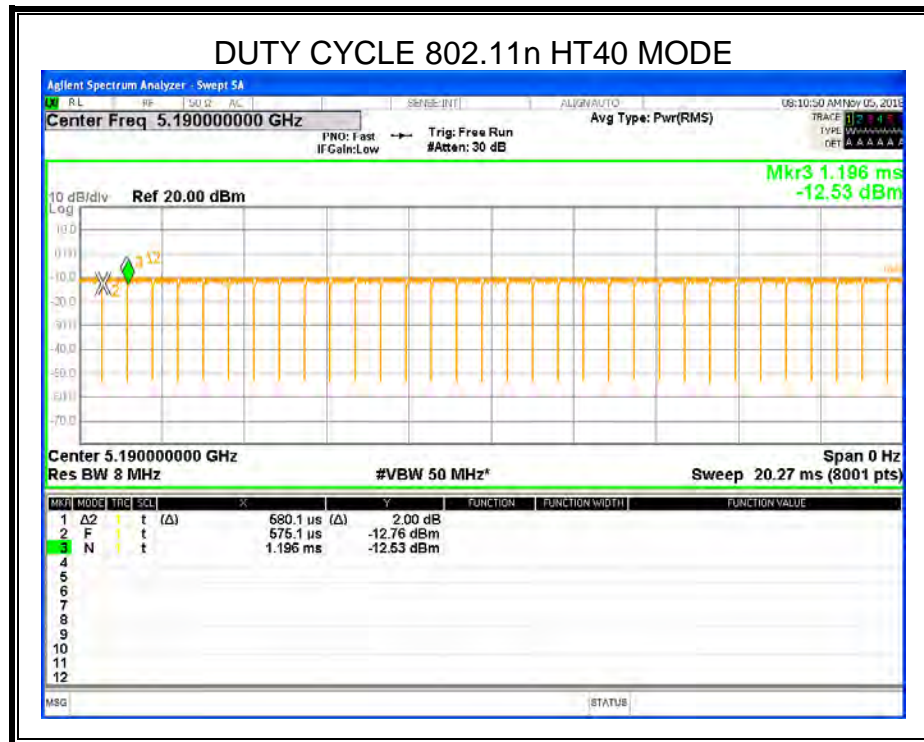
Duty Cycle Correction Factor=10log (1/x).

Where: x is Duty Cycle (Linear)

Where: T is On Time

If that calculated VBW is not available on the analyzer then the next higher value should be used.







## 6.2. 6dB/26dB OCCUPIED BANDWIDTH

### LIMITS

CFR 47 FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Bandwidth	26 dB Bandwidth	5150-5250
	26 dB Bandwidth	5250-5350
	26 dB Bandwidth	For FCC:5470-5725
	Minimum 500kHz 6dB Bandwidth	5725-5850

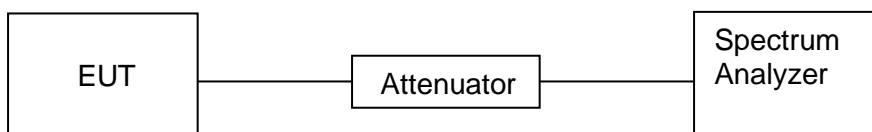
### TEST PROCEDUREC

Connect the UUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	For 6dB Bandwidth: RBW=100kHz For 26dB Bandwidth: approximately 1% of the emission bandwidth. For 99%dB Occupied Bandwidth: approximately 1%~5% of the emission bandwidth.
VBW	For 6dB Bandwidth : VBW=300kHz For 26dB Bandwidth : >3RBW
Trace	Max hold
Sweep	Auto couple

Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6dB/26dB Occupied Bandwidth relative to the maximum level measured in the fundamental emission.

### TEST SETUP



### TEST ENVIRONMENT

Temperature	24.1°C	Relative Humidity	51%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.8V



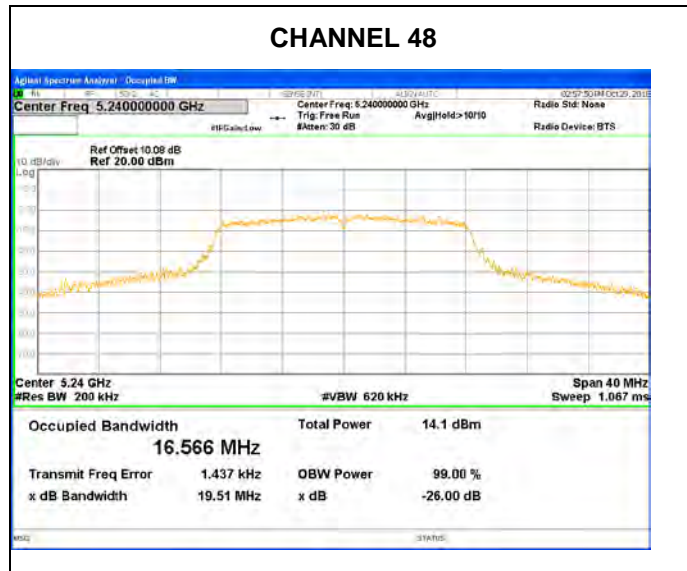
## RESULTS

### 6.2.1. 802.11a MODE

#### 6.2.1.1. UNII-1 BAND

Channel	Frequency (MHz)	26 dB BW (MHz)	99% BW (MHz)
36	5180	20.32	16.645
40	5200	20.44	16.539
48	5240	19.51	16.566



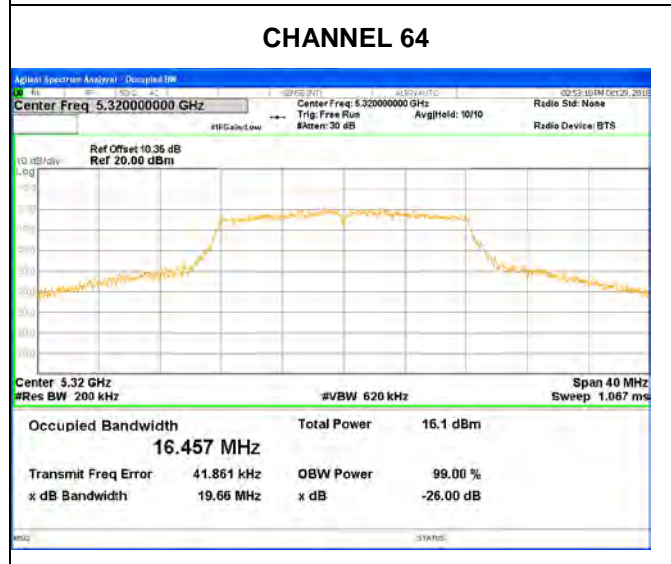
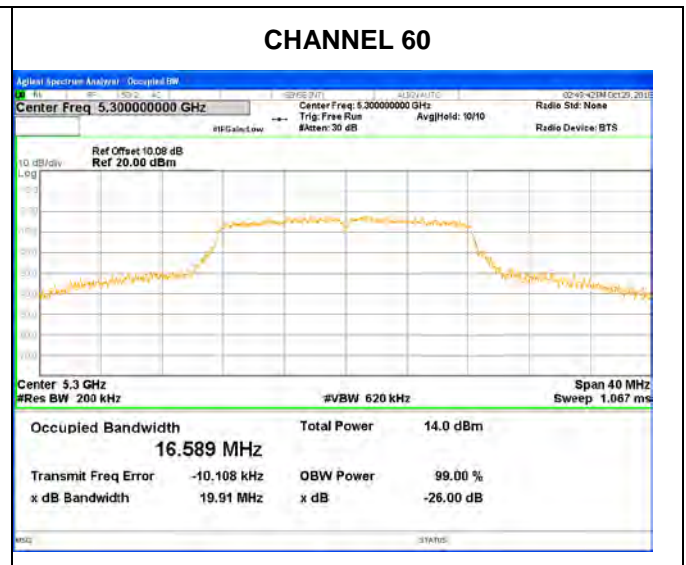
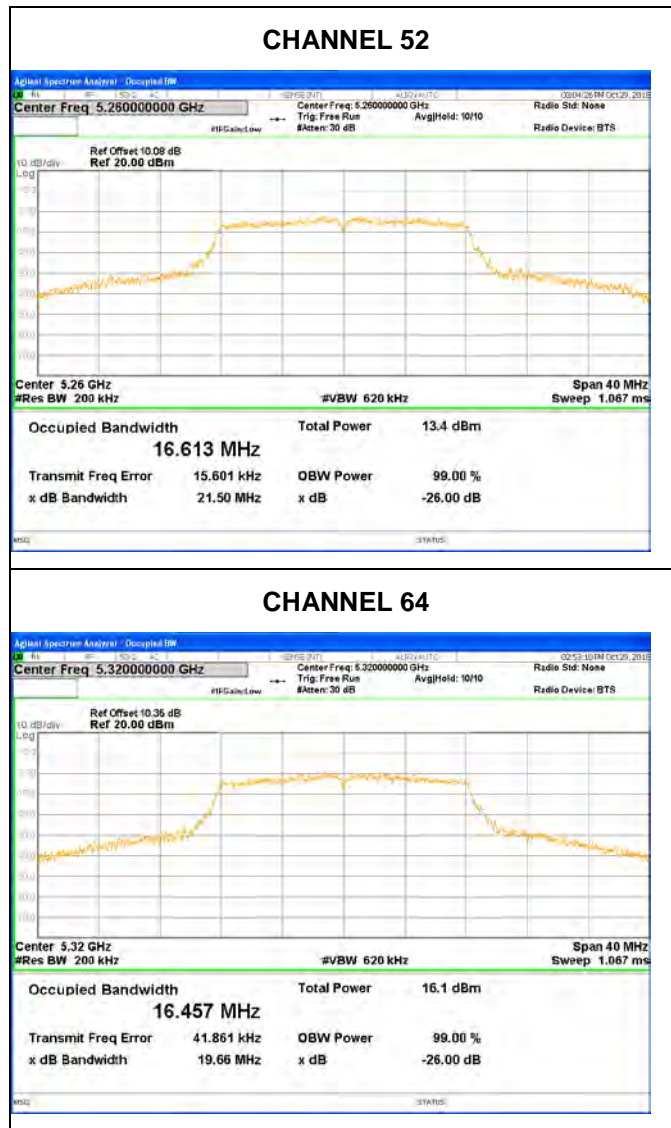






### 6.2.1.2. UNII-2A BAND

Channel	Frequency (MHz)	26 dB BW (MHz)
52	5260	21.50
60	5300	19.91
64	5320	19.66



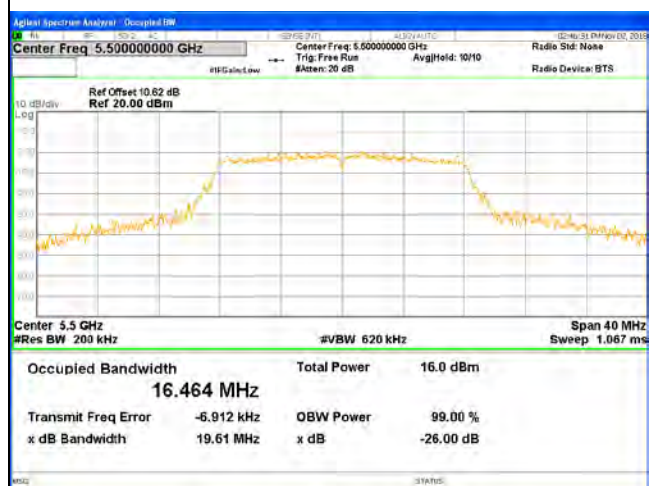




### 6.2.1.3. UNII-2C BAND

Channel	Frequency (MHz)	26 dB BW(MHz)
100	5500	19.61
120	5600	19.60
140	5700	19.16

**CHANNEL 100**



**CHANNEL 120**



**CHANNEL 140**



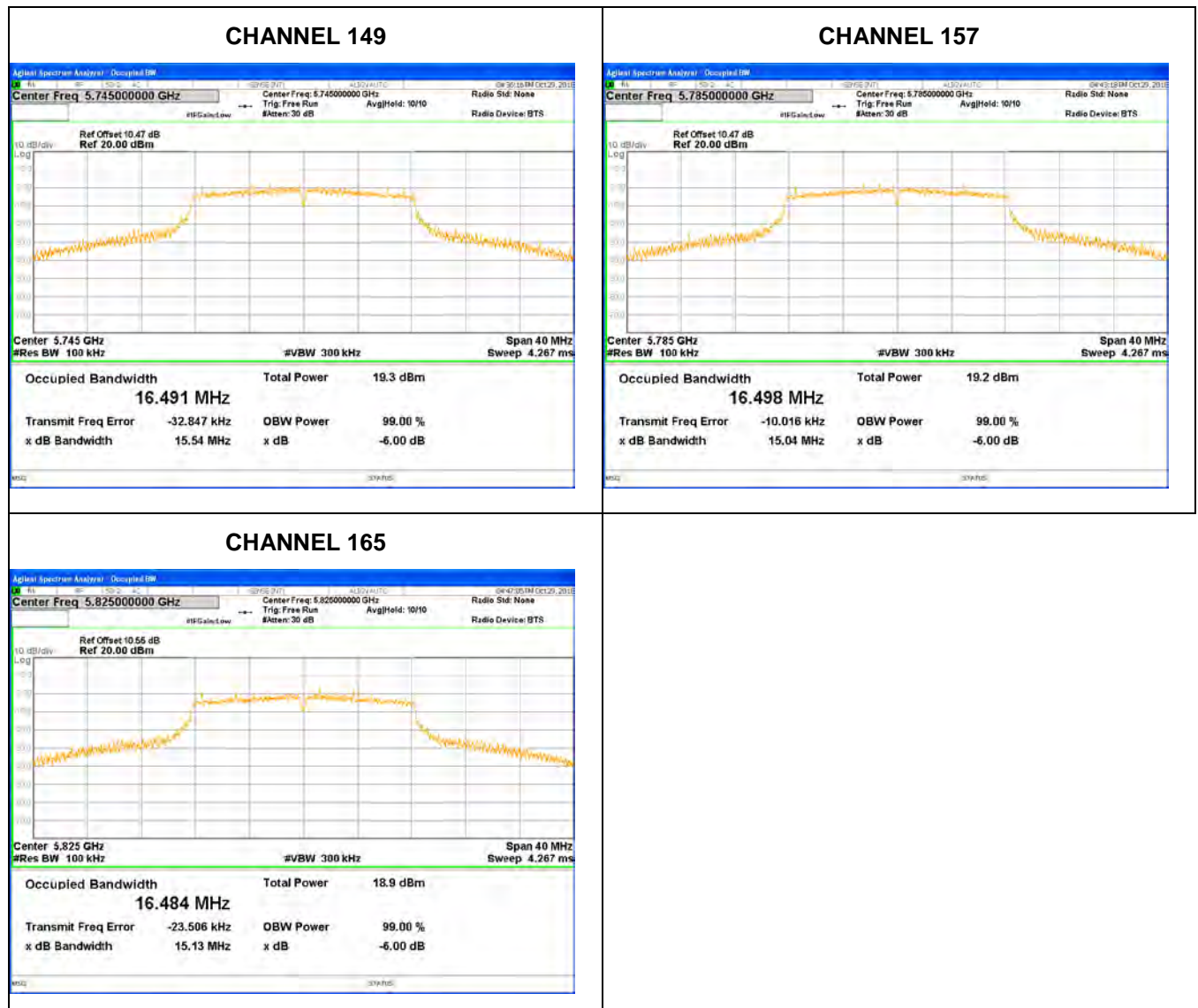
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#### 6.2.1.4. UNII-3 BAND

Channel	Frequency (MHz)	6 dB BW (MHz)	Limit (KHz)	Result
149	5745	15.54	500	PASS
157	5785	15.04	500	PASS
165	5825	15.13	500	PASS

6 dB BW

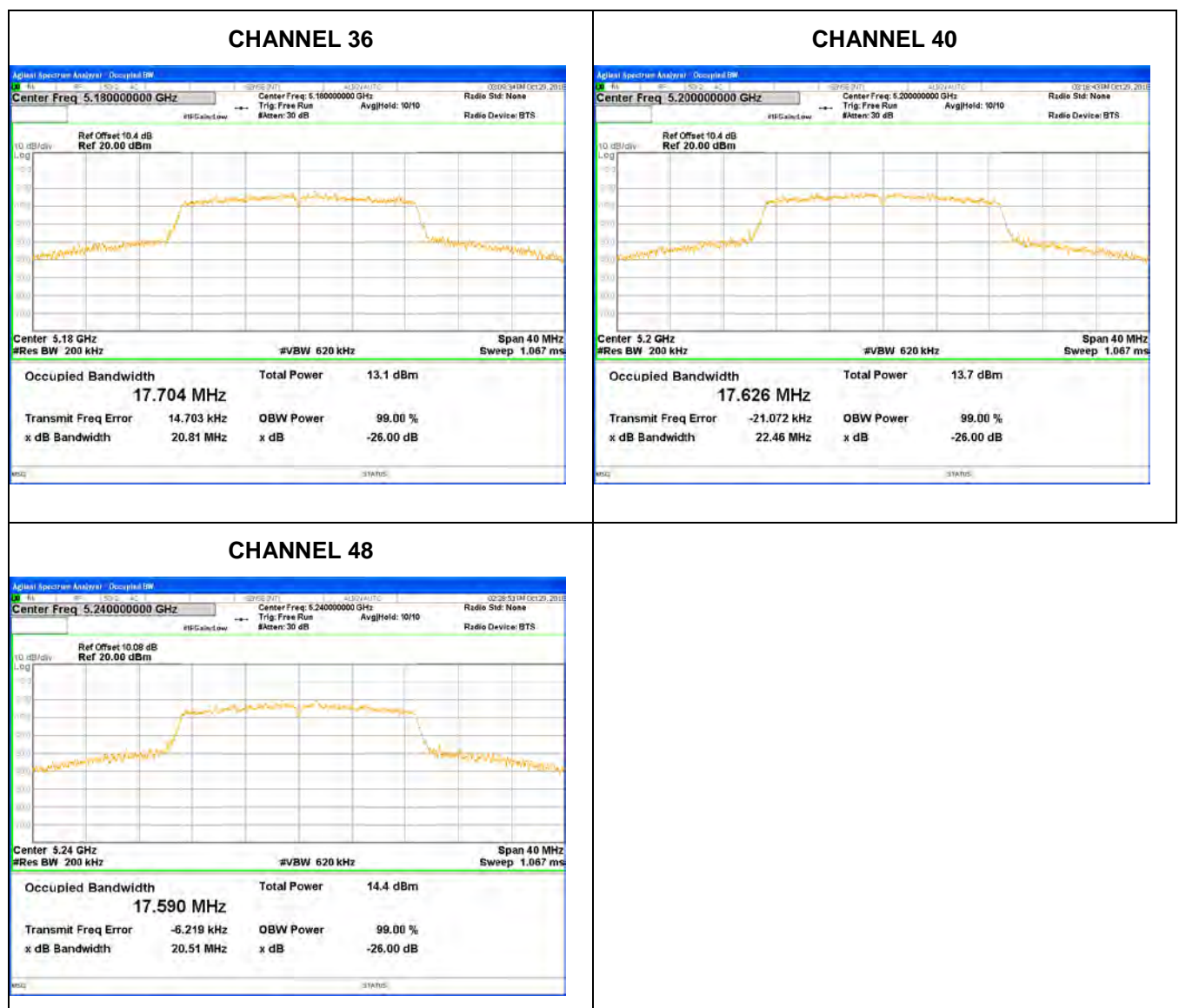




## 6.2.2. 802.11n HT20 MODE

### 6.2.2.1. UNII-1 BAND

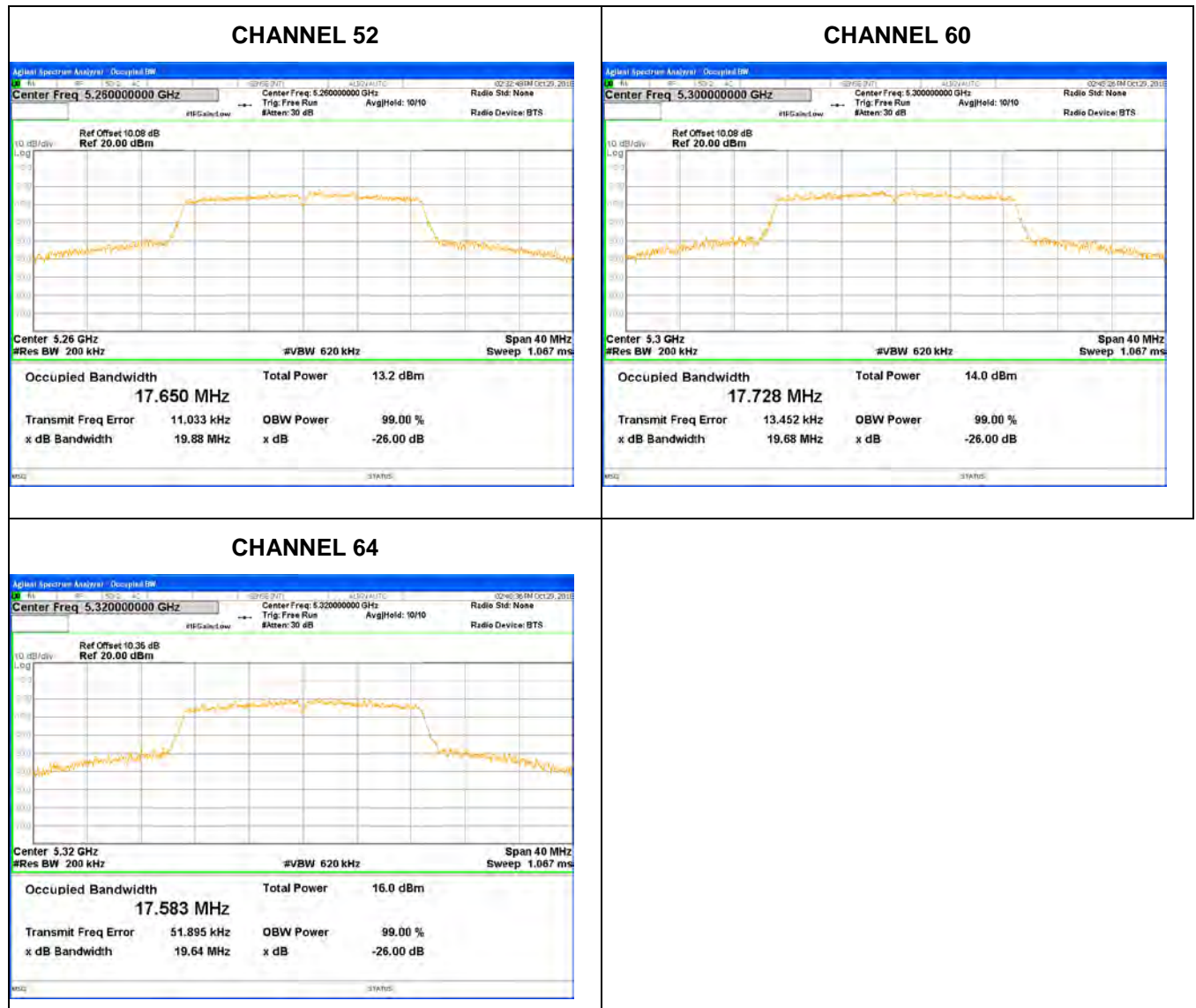
Channel	Frequency (MHz)	26 dB BW (MHz)	99% BW (MHz)
36	5180	20.81	17.704
40	5200	22.46	17.626
48	5240	20.51	17.590





### 6.2.2.1. UNII-2A BAND

Channel	Frequency (MHz)	26 dB BW (MHz)
52	5260	19.88
60	5300	19.68
64	5320	19.64

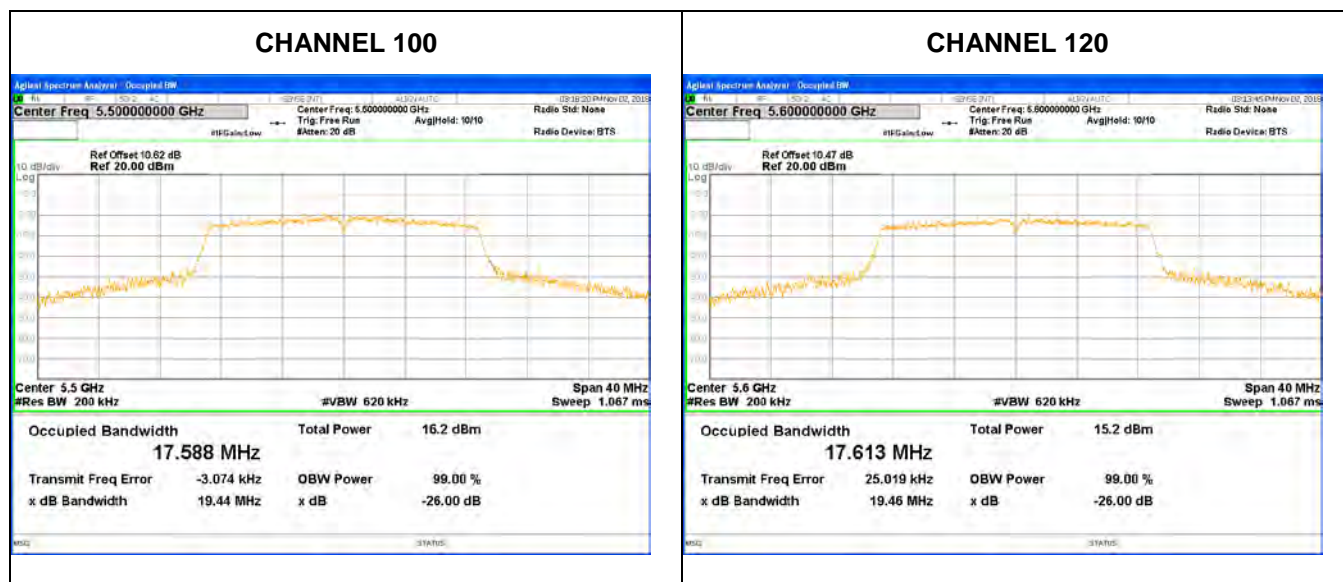




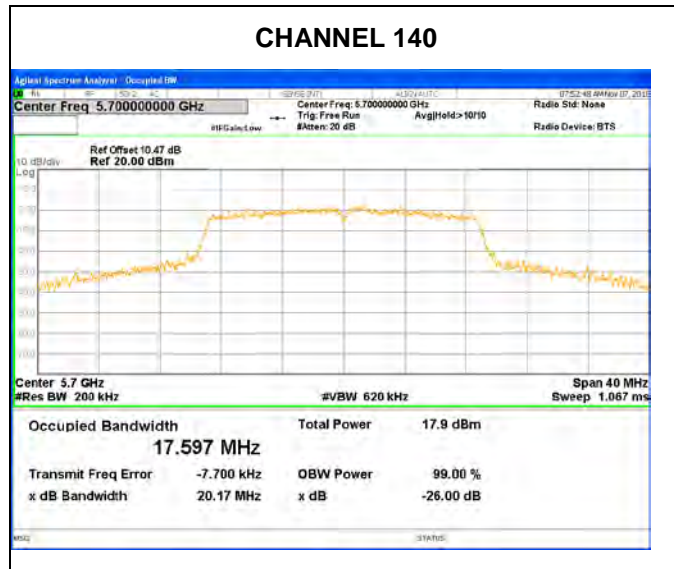


### 6.2.2.2. UNII-2C BAND

Channel	Frequency (MHz)	26 dB BW (MHz)
100	5500	19.44
120	5600	19.46
140	5700	20.17



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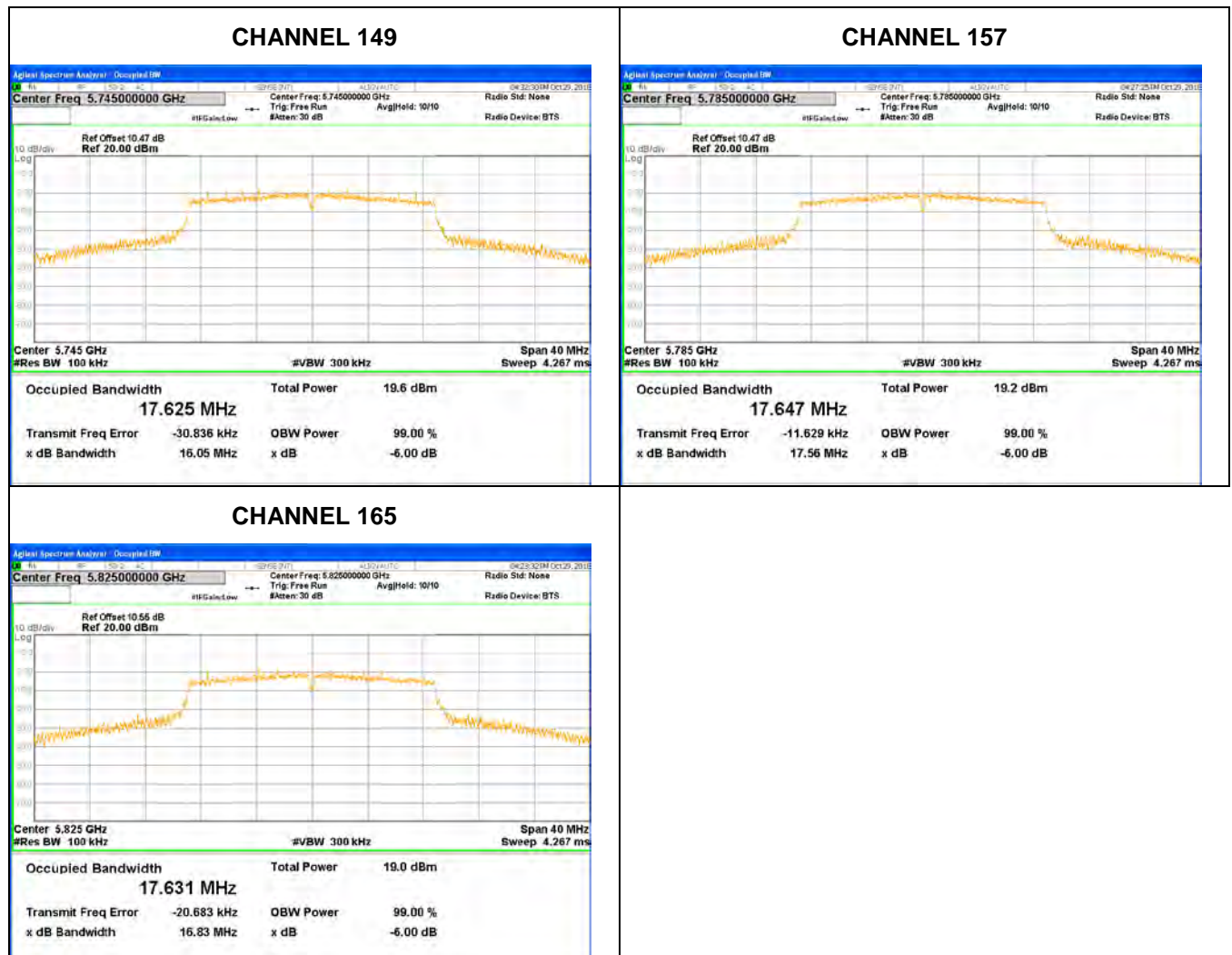




### 6.2.2.3. UNII-3 BAND

Channel	Frequency (MHz)	6 dB BW (MHz)	Limit (KHz)	Result
149	5745	16.05	500	PASS
157	5785	17.56	500	PASS
165	5825	16.83	500	PASS

6 dB BW

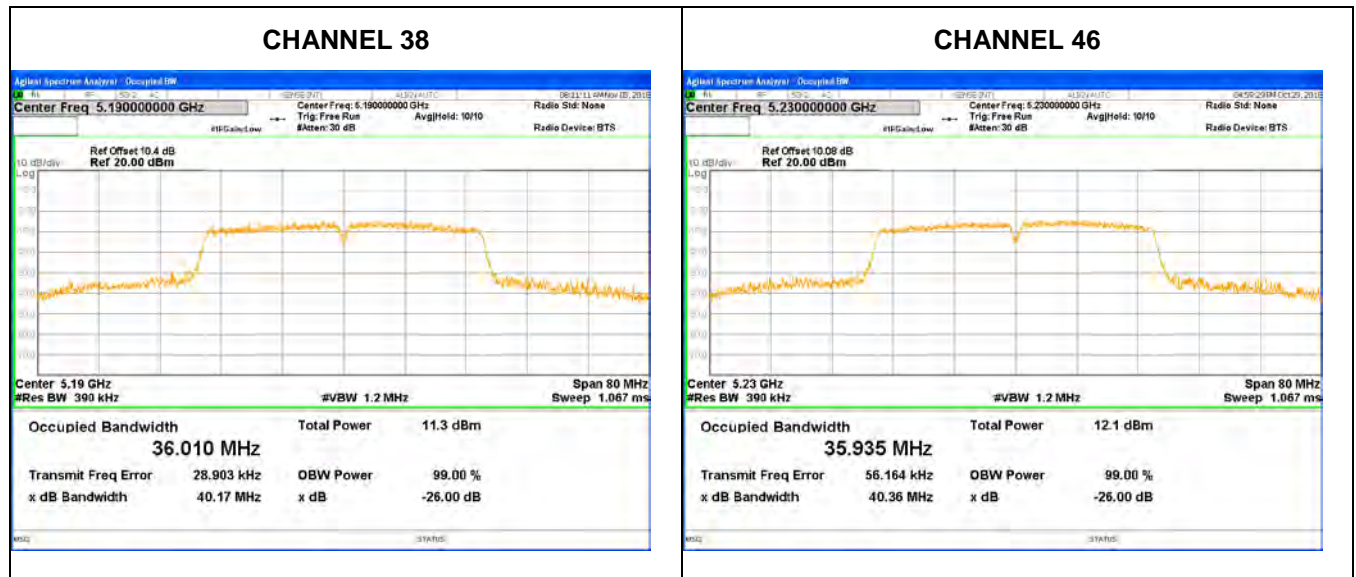




### 6.2.3. 802.11n HT40 MODE

#### 6.2.3.1. UNII-1 BAND

Channel	Frequency (MHz)	26 dB BW (MHz)	99% BW (MHz)
38	5190	40.17	36.010
46	5230	40.36	35.935

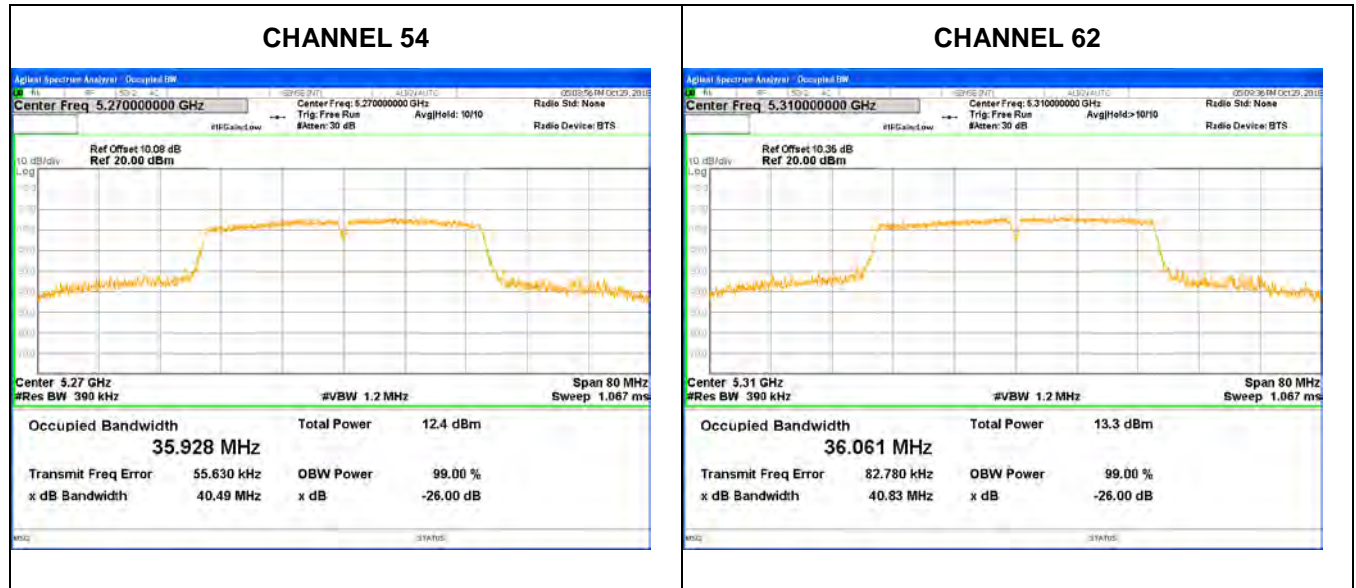






### 6.2.3.2. UNII-2A BAND

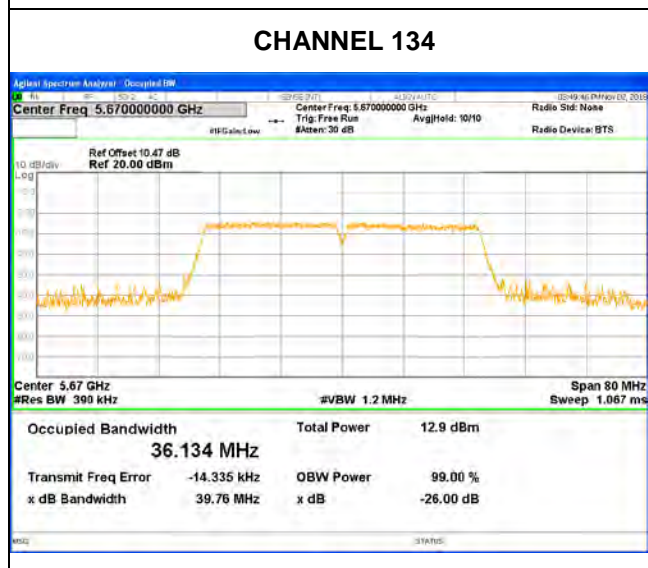
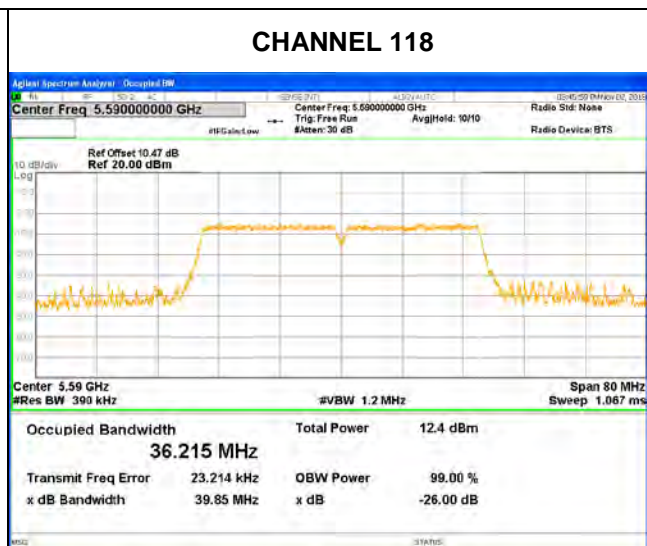
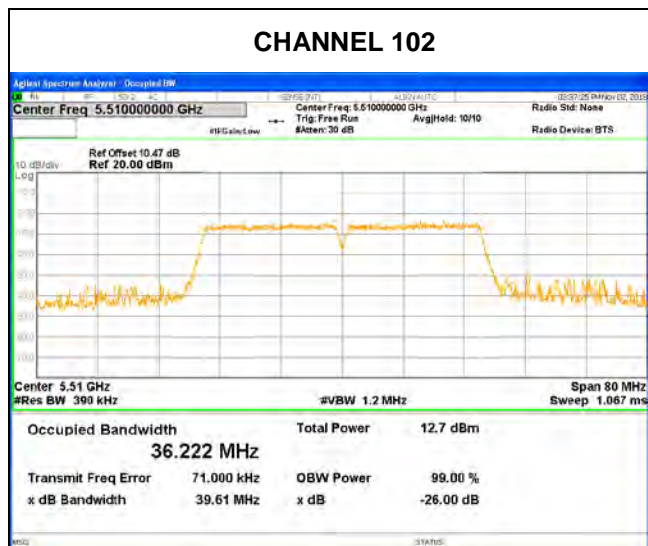
Channel	Frequency (MHz)	26 dB BW (MHz)
54	5270	40.49
62	5310	40.83





### 6.2.3.3. UNII-2C BAND

Channel	Frequency (MHz)	26 dB BW (MHz)
102	5510	39.61
118	5590	39.85
134	5670	39.76

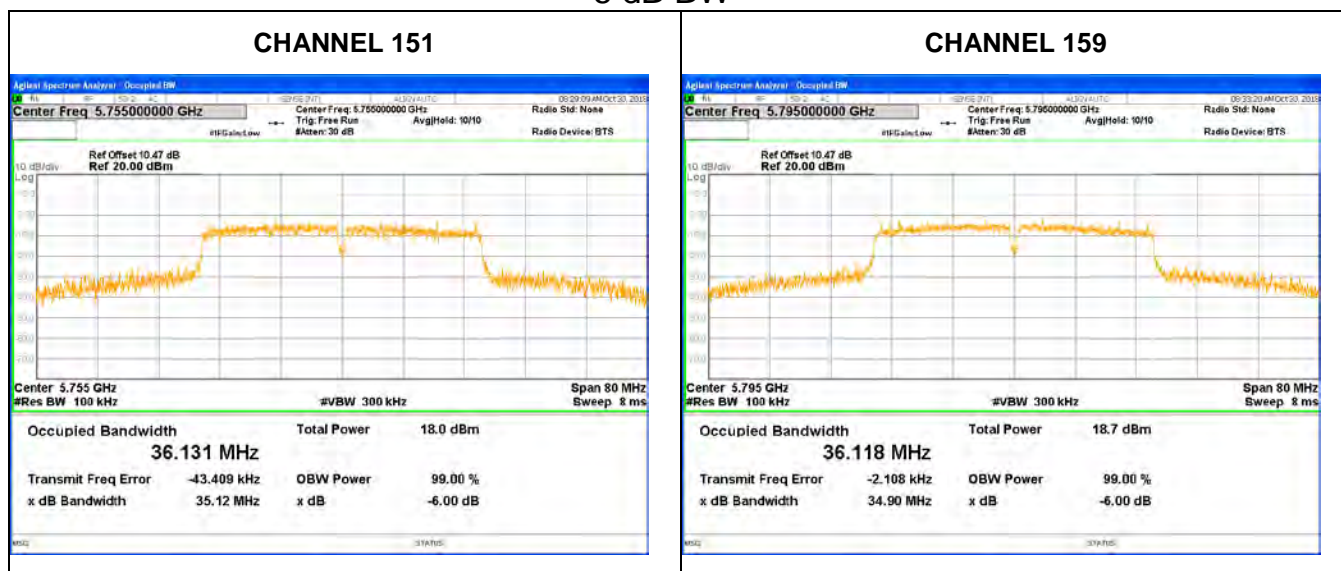




#### 6.2.3.4. UNII-3 BAND

Channel	Frequency (MHz)	6 dB BW (MHz)	Limit (KHz)	Result
151	5755	35.12	500	PASS
159	5795	34.90	500	PASS

#### 6 dB BW





### 6.3. MAXIMUM CONDUCTED AVERAGE OUTPUT POWER

#### LIMITS

CFR 47 FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Conducted Output Power	For FCC client devices :250mW (24dBm)	5150-5250
	For RSS:e.i.r.p. power: not exceed 200 mW(23dBm) or $10 + 10 \log_{10} B$ , B is the 99% emission bandwidth in megahertz	
	250mW (24dBm) For RSS: conducted output power: not exceed 250 mW(24dBm) or $11 + 10 \log_{10} B$ , B is the 99% emission bandwidth in megahertz	5250-5350
	250mW (24dBm) For RSS: conducted output power: not exceed 250 mW(24dBm) or $11 + 10 \log_{10} B$ , B is the 99% emission bandwidth in megahertz	For FCC:5470-5725
	1 Watt (30dBm)	5725-5850

Note: If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

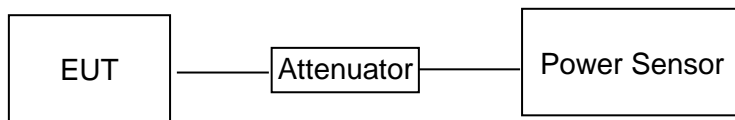
#### TEST PROCEDURE

Refer to KDB 789033 D02 General UNII Test Procedures New Rules v02r01

Measurement using an RF average power meter.

Connect the EUT to the a broadband average RF power meter, the power meter shall have a video bandwidth that is greater than or equal to the bandwidth and shall utilize a fast-responding diode detector.

#### TEST SETUP



#### TEST ENVIRONMENT

Temperature	24.1°C	Relative Humidity	51%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.8V



## **RESULTS**

### **6.3.1. UNII-1 BAND**

Mode	Frequency (MHz)	Antenna	CONDUCTED POWER (dBm)	Limit (dBm)	Result
a	5180	A	7.48	24	PASS
	5200	A	7.84	24	PASS
	5240	A	8.44	24	PASS
n HT20	5180	A	7.38	24	PASS
	5200	A	7.98	24	PASS
	5240	A	8.56	24	PASS
n HT40	5190	A	5.56	24	PASS
	5230	A	8.63	24	PASS

Note: 1. The test results had already included the duty cycle correction factor.  
2. All the mode had been tested, but only the worst data recorded in the report.



### 6.3.2. UNII-2A BAND

Mode	Frequency (MHz)	Antenna	CONDUCTED POWER (dBm)	Limit (dBm)	Result
a	5260	A	7.74	24	PASS
	5300	A	8.27	24	PASS
	5320	A	10.41	24	PASS
n HT20	5260	A	7.48	24	PASS
	5300	A	8.18	24	PASS
	5320	A	10.23	24	PASS
n HT40	5260	A	9.06	24	PASS
	5300	A	9.74	24	PASS

Note: 1. The test results had already included the duty cycle correction factor.  
2. All the mode had been tested, but only the worst data recorded in the report.



### 6.3.3. UNII-2C BAND

Mode	Frequency (MHz)	Antenna	CONDUCTED POWER (dBm)	Limit (dBm)	Result
a	5500	A	12.55	24	PASS
	5580	A	12.50	24	PASS
	5700	A	13.73	24	PASS
n HT20	5500	A	12.43	24	PASS
	5580	A	12.47	24	PASS
	5700	A	13.56	24	PASS
n HT40	5510	A	12.26	24	PASS
	5550	A	13.13	24	PASS
	5670	A	13.72	24	PASS

Note: 1. The test results had already included the duty cycle correction factor.  
2. All the mode had been tested, but only the worst data recorded in the report.

#### 6.3.4. UNII-3 BAND

Mode	Frequency (MHz)	Antenna	CONDUCTED POWER (dBm)	Limit (dBm)	Result
a	5745	A	13.43	30	PASS
	5785	A	13.28	30	PASS
	5825	A	12.98	30	PASS
n HT20	5745	A	13.50	30	PASS
	5785	A	13.48	30	PASS
	5825	A	13.02	30	PASS
n HT40	5755	A	13.59	30	PASS
	5795	A	13.45	30	PASS

Note: 1. The test results had already included the duty cycle correction factor.  
2. All the mode had been tested, but only the worst data recorded in the report.





#### 6.4. POWER SPECTRAL DENSITY

##### LIMITS

CFR 47 FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	For FCC: Other than Mobile and portable:17dBm/MHz Mobile and portable:11dBm/MHz	5150-5250
	For RSS: e.i.r.p. 10dBm/MHz	
	11dBm/MHz	5250-5350
	11dBm/MHz	For FCC:5470-5725
	30dBm/500kHz	5725-5850

Note: If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.



### **TEST PROCEDURE**

Connect the UUT to the spectrum analyser and use the following settings:

For U-NII-1, U-NII-2A and U-NII-2C band:

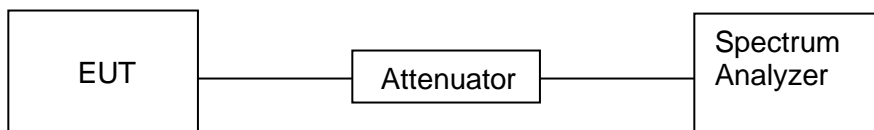
Center Frequency	The center frequency of the channel under test
Detector	RMS
RBW	1MHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

For U-NII-3:

Center Frequency	The center frequency of the channel under test
Detector	RMS
RBW	500kHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

### **TEST SETUP**



### **TEST ENVIRONMENT**

Temperature	24.1°C	Relative Humidity	51%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.8V

### **RESULTS**



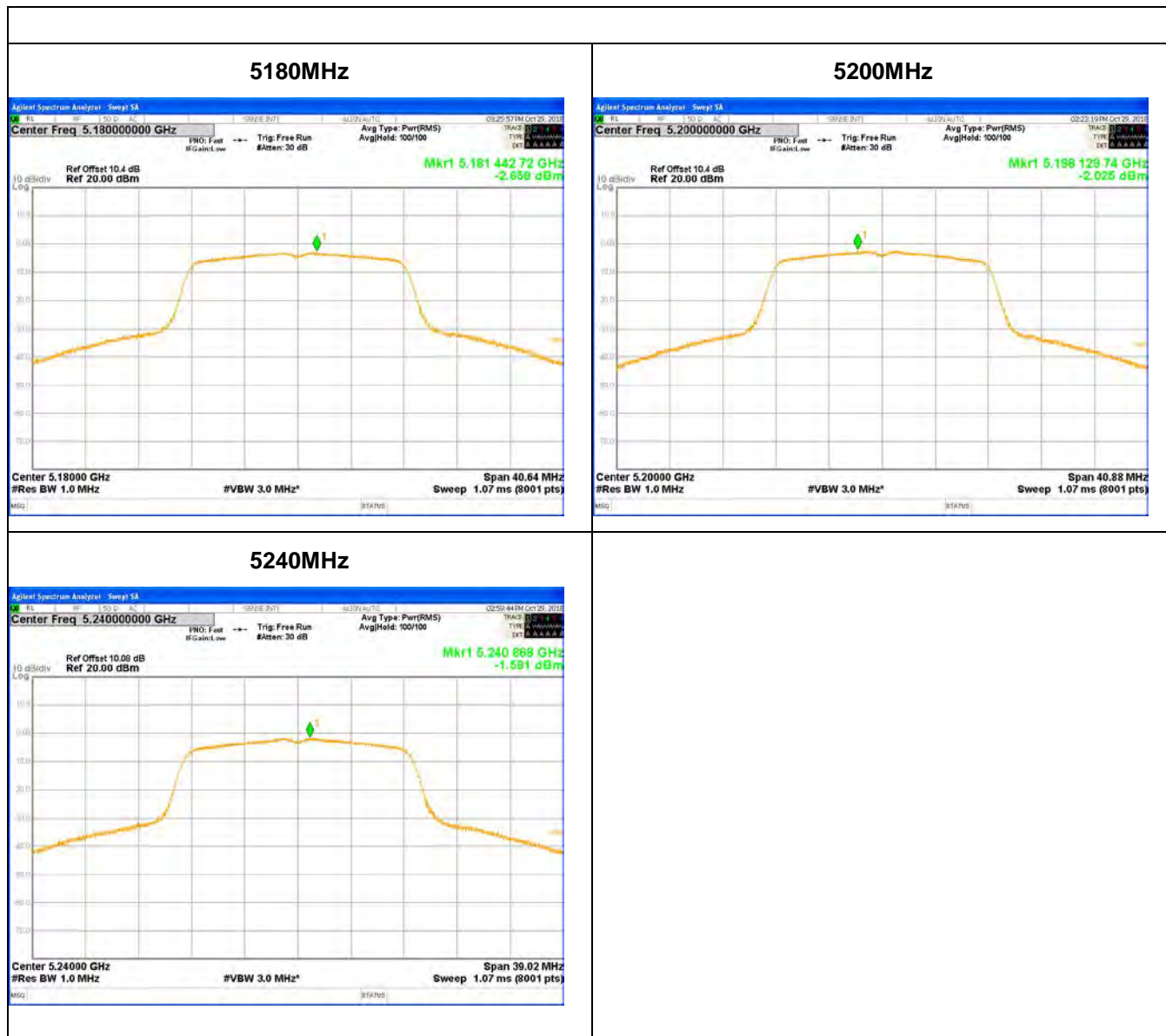
#### 6.4.1. UNII-1 BAND

Mode	Frequency (MHz)	Chain	Conducted PSD (dBm)	Limit (dBm)
a	5180	A	-2.528	11
	5200	A	-1.895	11
	5240	A	-1.451	11
n HT20	5180	A	-2.971	11
	5200	A	-2.029	11
	5240	A	-1.448	11
n HT40	5190	A	-7.682	11
	5230	A	-4.926	11
Note: 1.PSD= TEST PLOT Value + 10 log (1/x), where x is the duty cycle. 2.About correction Factor please refer to section 6.1.				



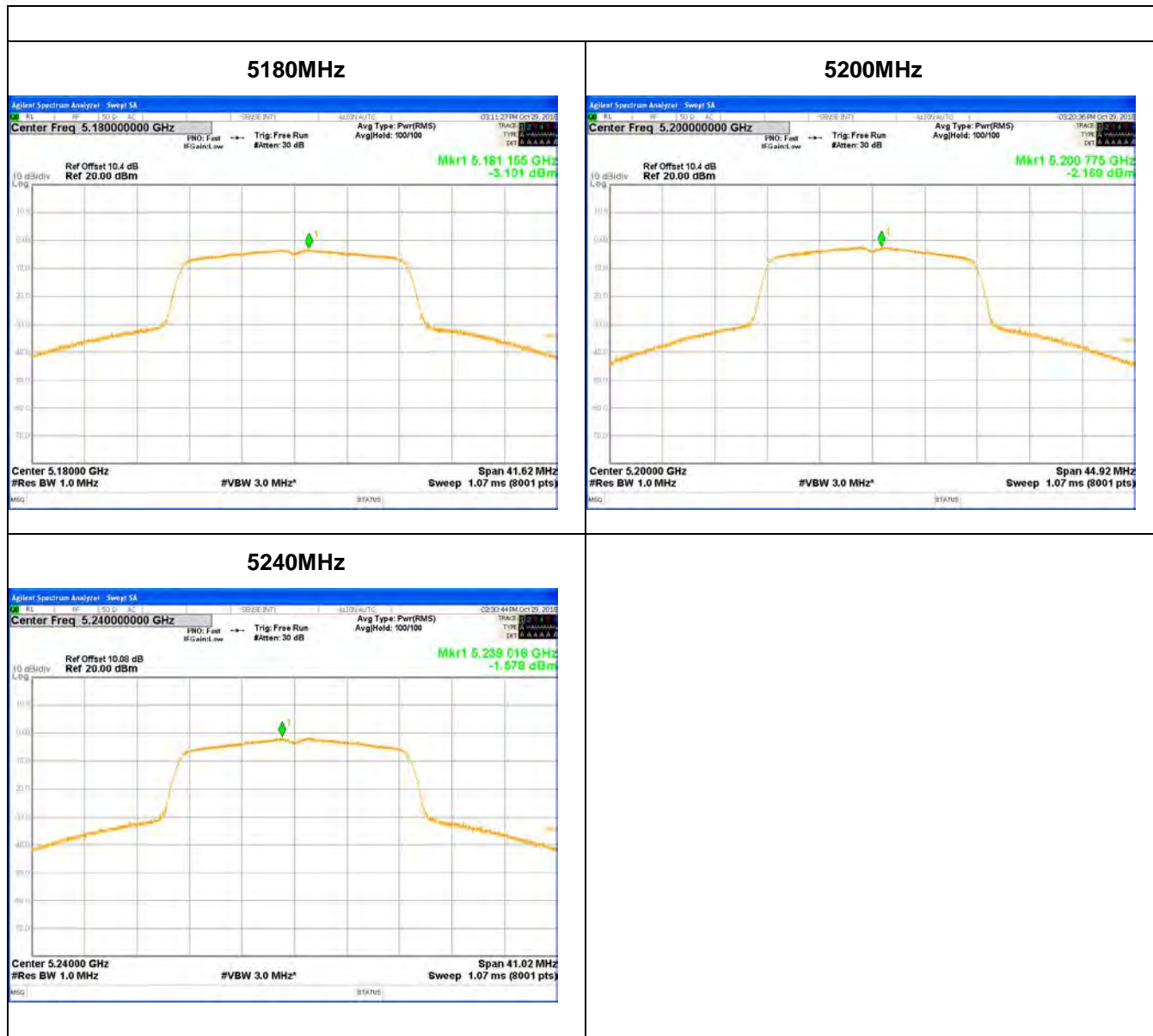
## TEST PLOT

### 802.11a



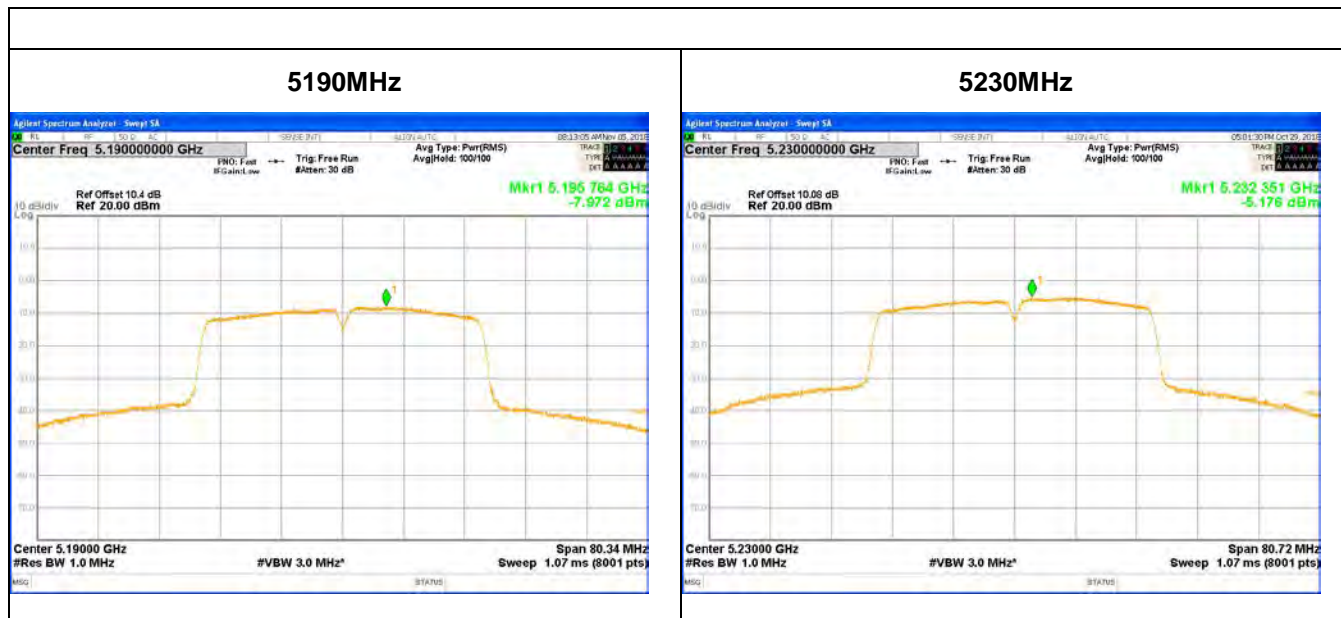


**802.11n HT20**





## 802.11n HT40



### 6.4.2. UNII-2A BAND

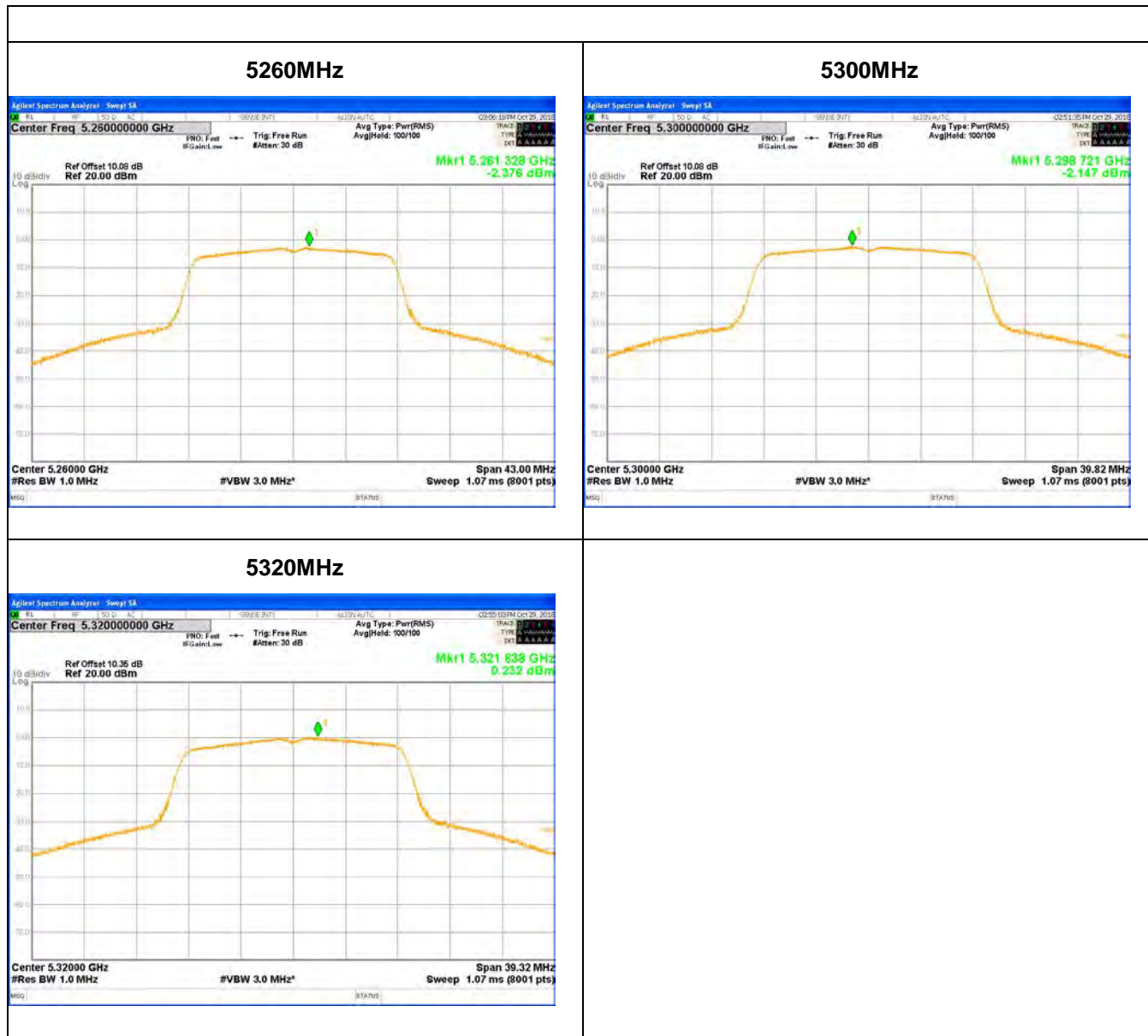
Mode	Frequency (MHz)	Chain	Conducted PSD (dBm)	Limit (dBm)
a	5260	A	-2.246	11
	5300	A	-2.017	11
	5320	A	-0.362	11
n HT20	5260	A	-2.823	11
	5300	A	-2.114	11
	5320	A	0.211	11
n HT40	5270	A	-4.058	11
	5310	A	-3.310	11

Note: 1.PSD= TEST PLOT Value + 10 log (1/x), where x is the duty cycle.  
2.About correction Factor please refer to section 6.1



## TEST PLOT

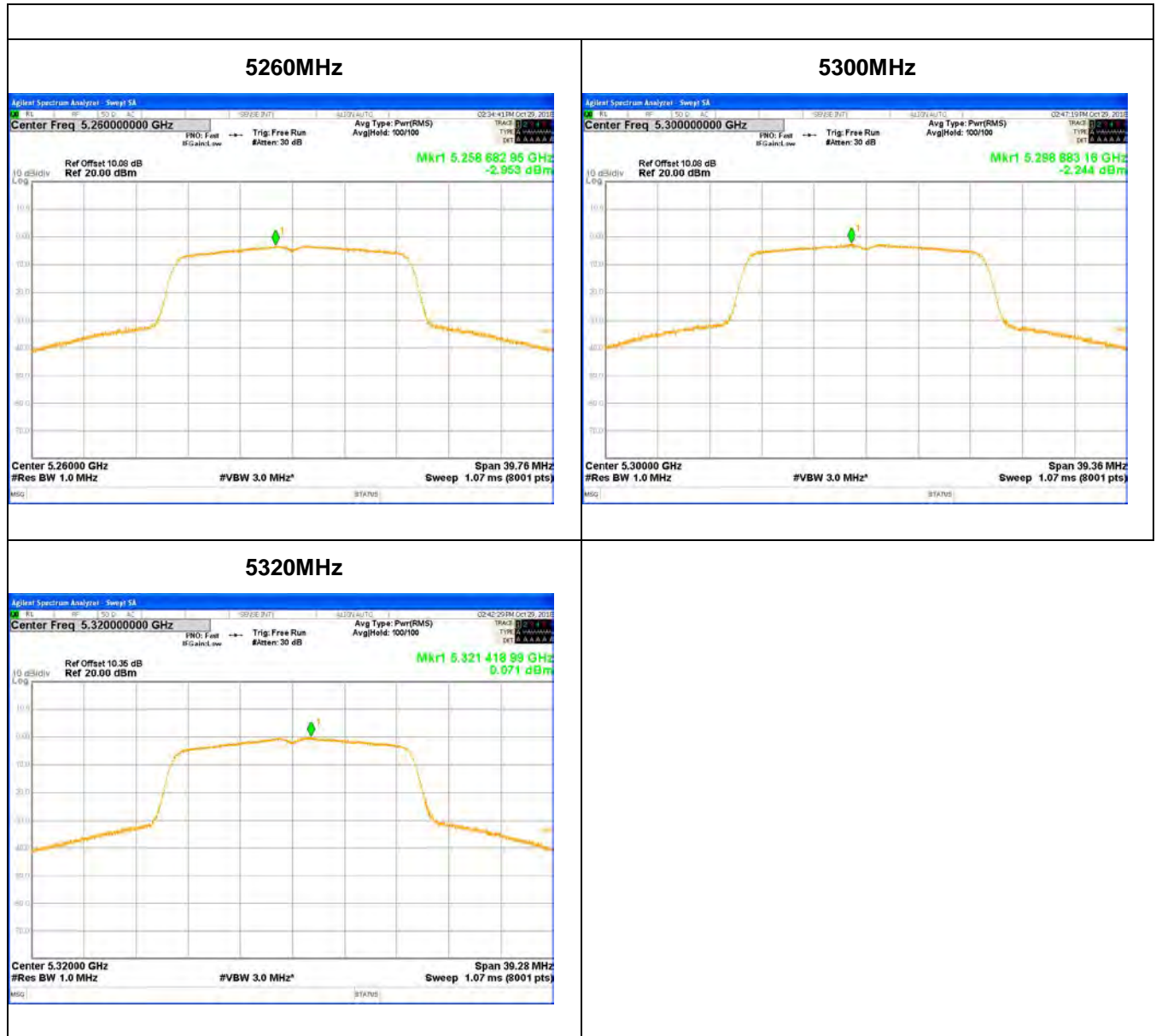
### 802.11a







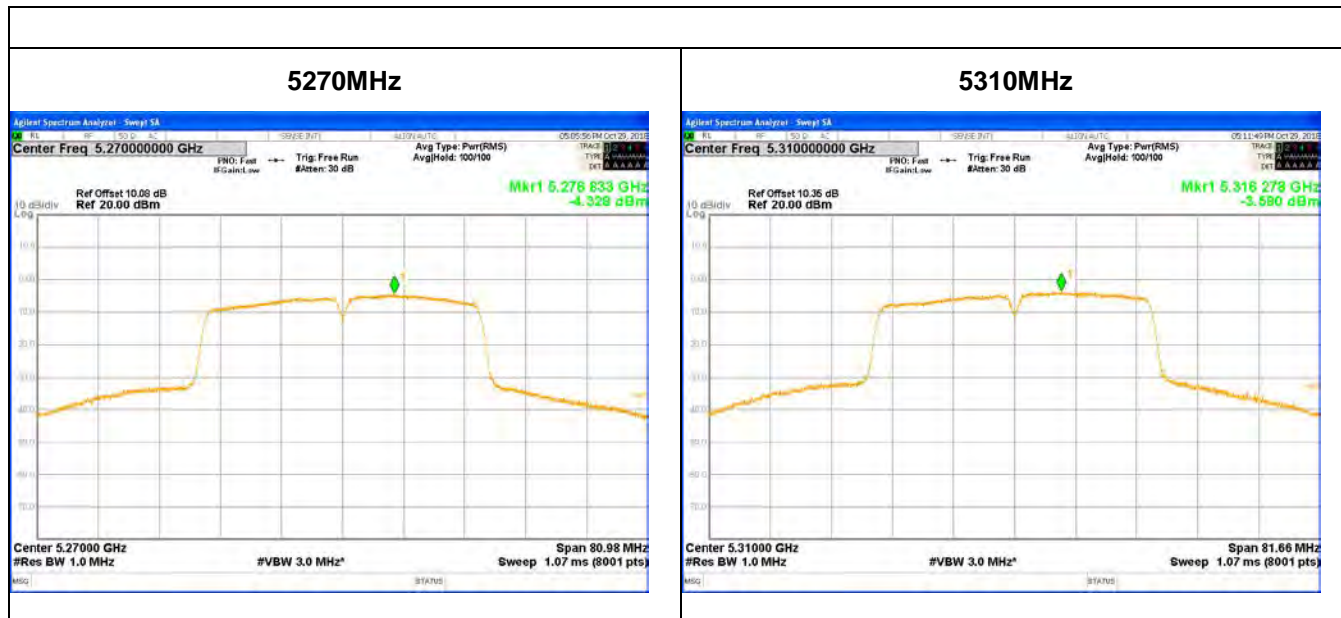
**802.11n HT20**







## 802.11n HT40



### 6.4.3. UNII-2C BAND

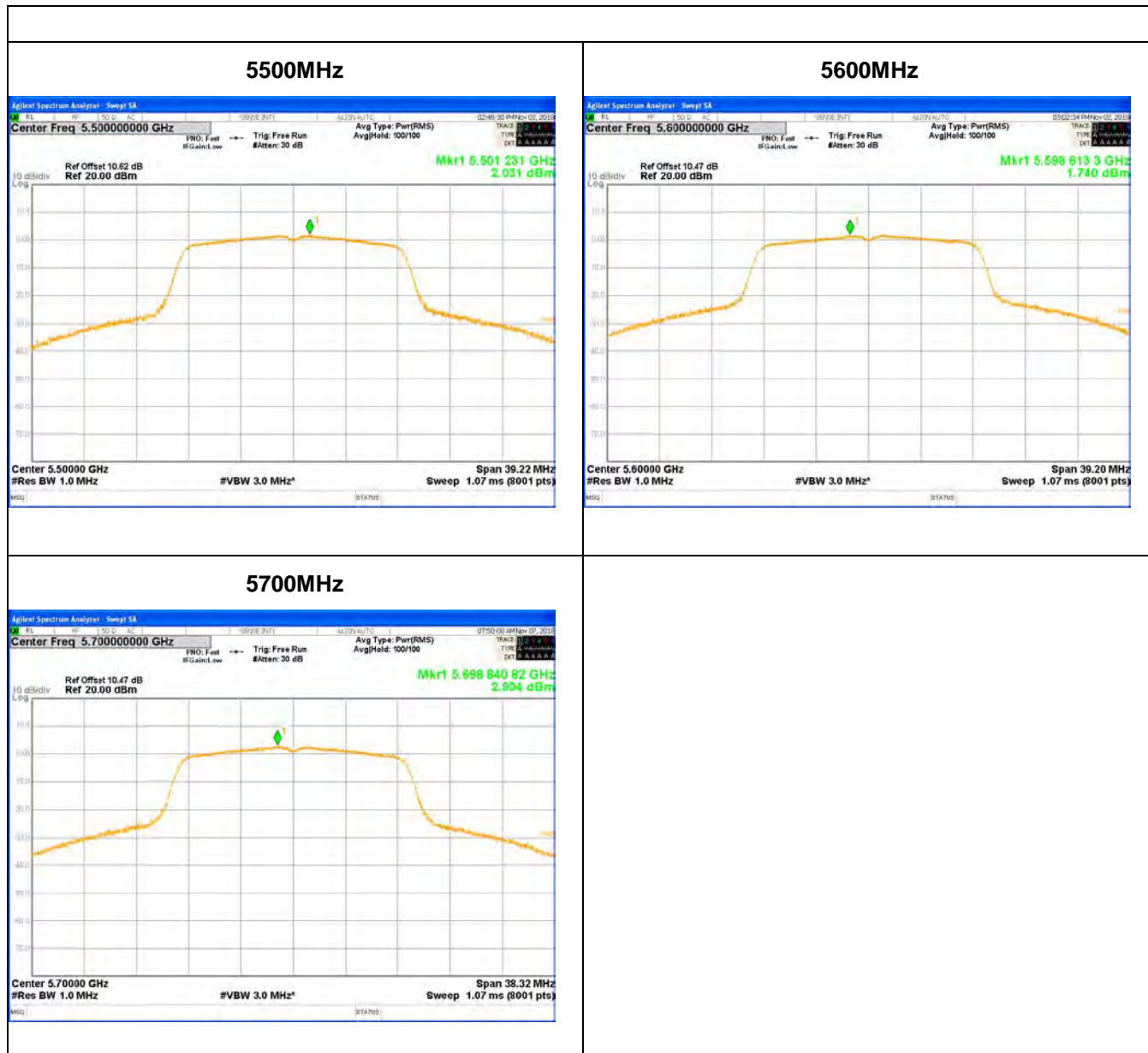
Mode	Frequency (MHz)	Chain	Conducted PSD (dBm)	Limit (dBm)
a	5500	A	2.551	11
	5600	A	2.260	11
	5700	A	3.034	11
n HT20	5500	A	2.442	11
	5600	A	2.238	11
	5700	A	1.875	11
n HT40	5510	A	-1.155	11
	5590	A	-0.354	11
	5670	A	1.120	11

Note: 1.PSD= TEST PLOT Value + 10 log (1/x), where x is the duty cycle.  
2.About correction Factor please refer to section 6.1



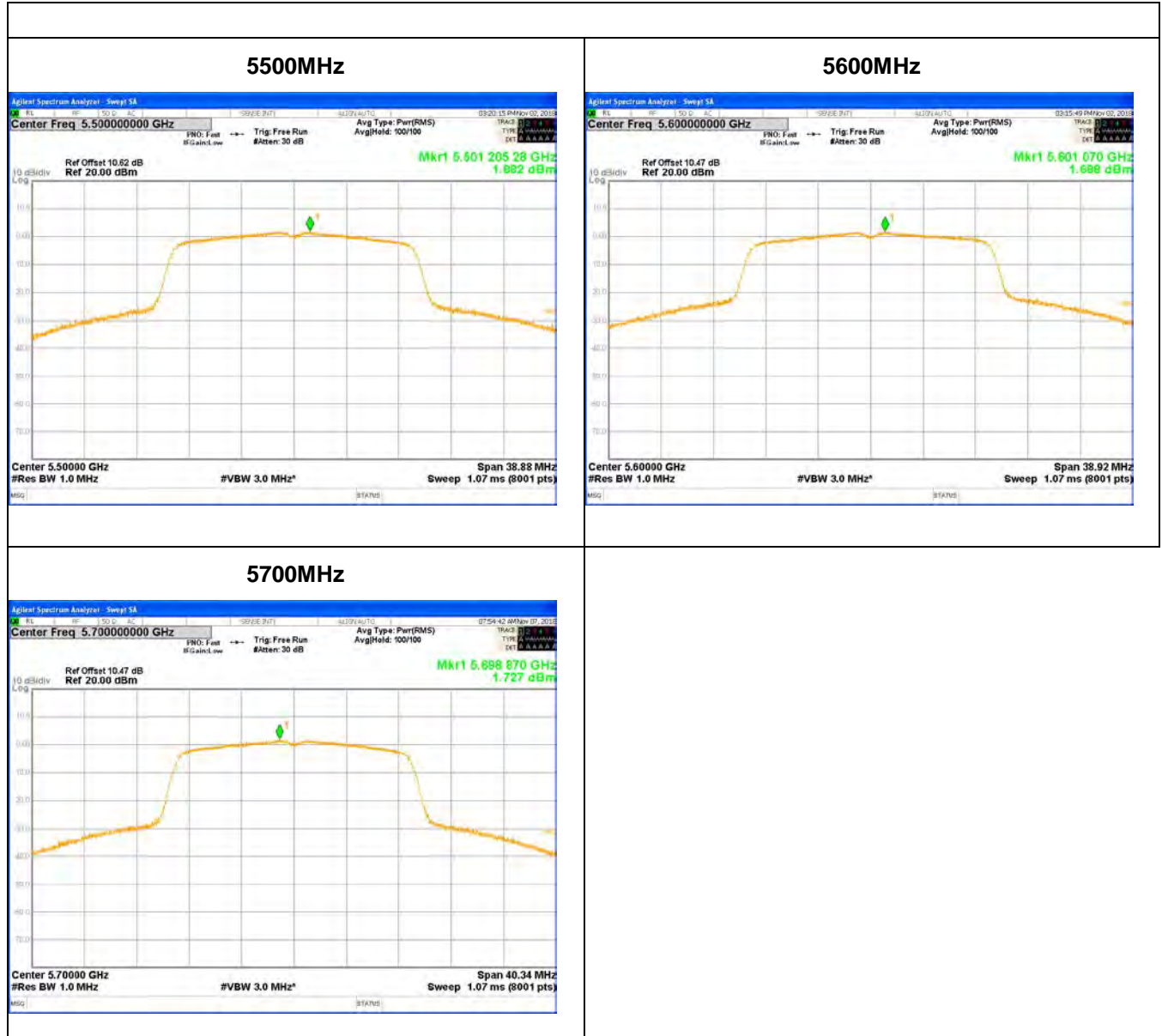
## TEST PLOT

802.11a



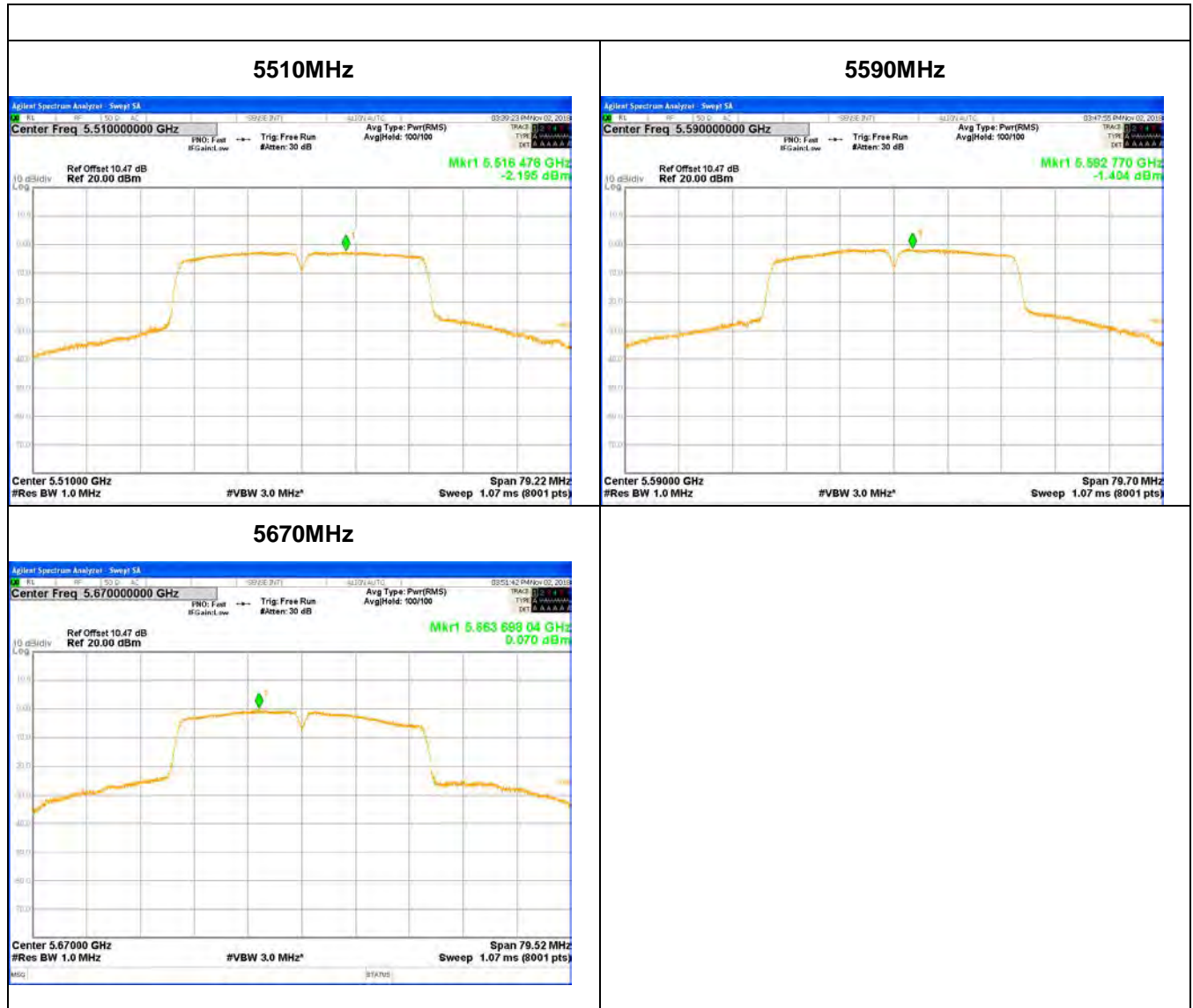


**802.11n HT20**





**802.11n HT40**





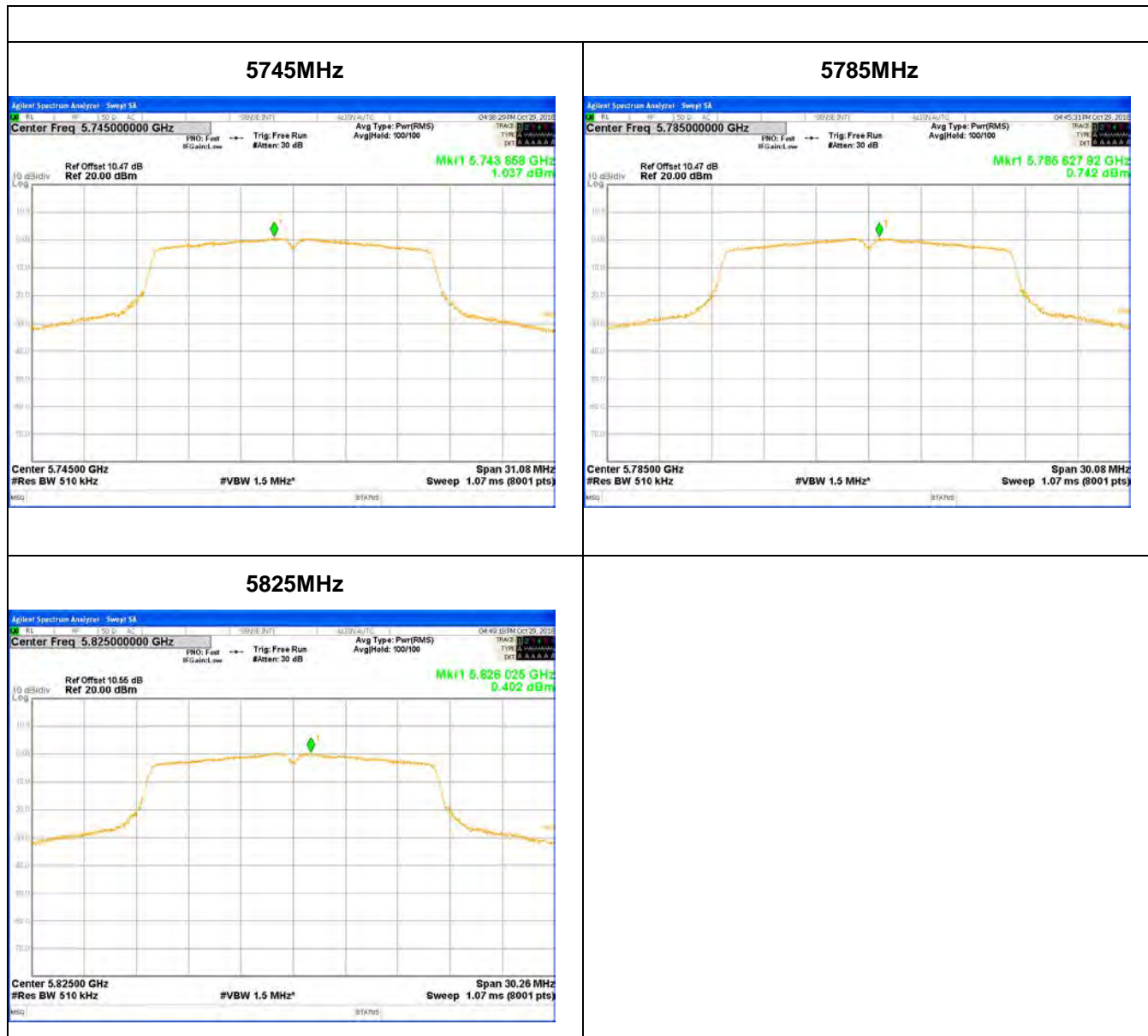
#### 6.4.4. UNII-3 BAND

Mode	Frequency (MHz)	Chain	Conducted PSD (dBm)	Limit (dBm)
a	5745	A	1.167	30
	5785	A	0.872	30
	5825	A	0.532	30
n HT20	5745	A	0.972	30
	5785	A	0.686	30
	5825	A	0.337	30
n HT40	5755	A	-2.817	30
	5795	A	-3.259	30
Note: 1.PSD= TEST PLOT Value + 10 log (1/x), where x is the duty cycle. 2.About correction Factor please refer to section 6.1				



## TEST PLOT

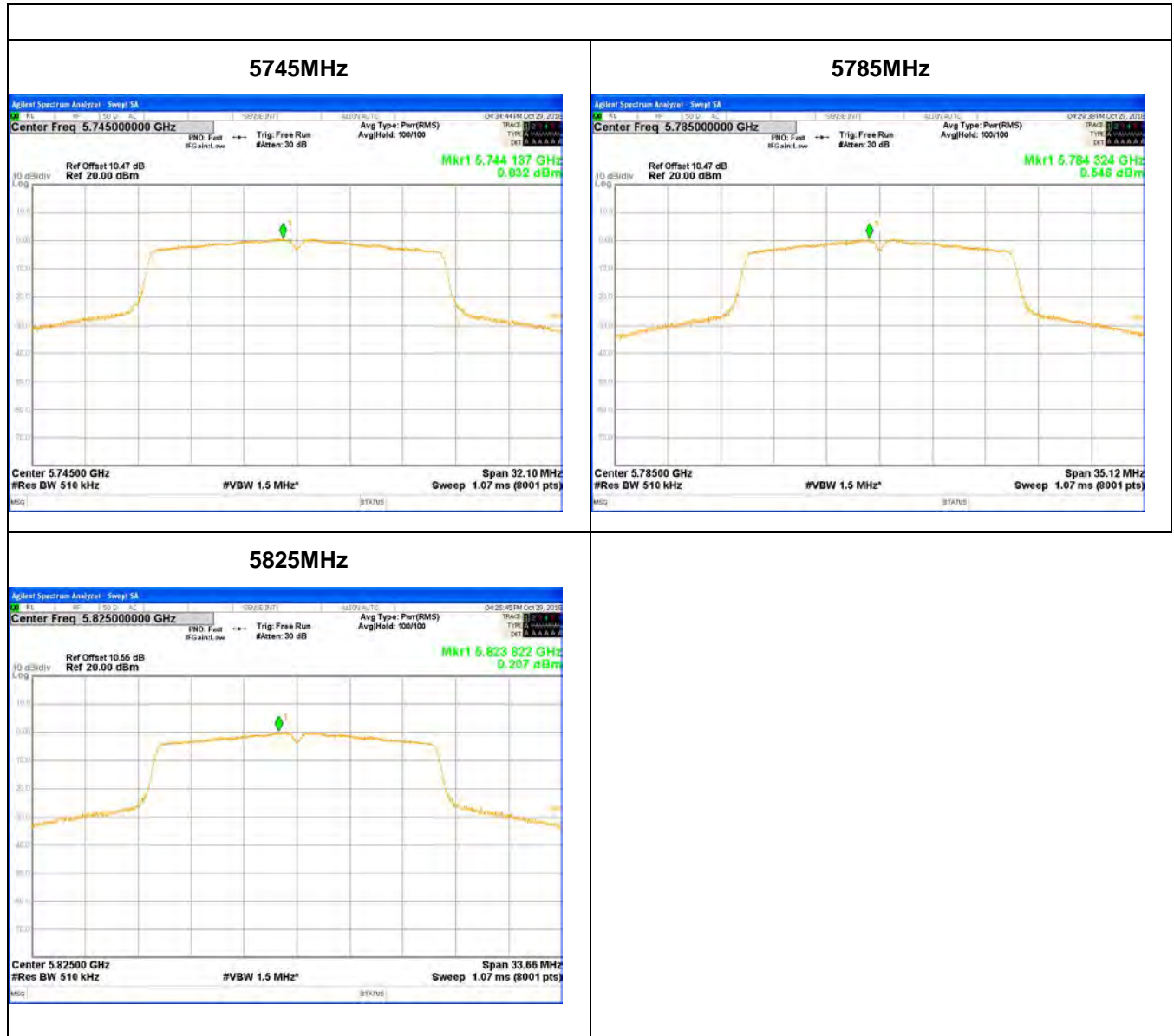
### 802.11a





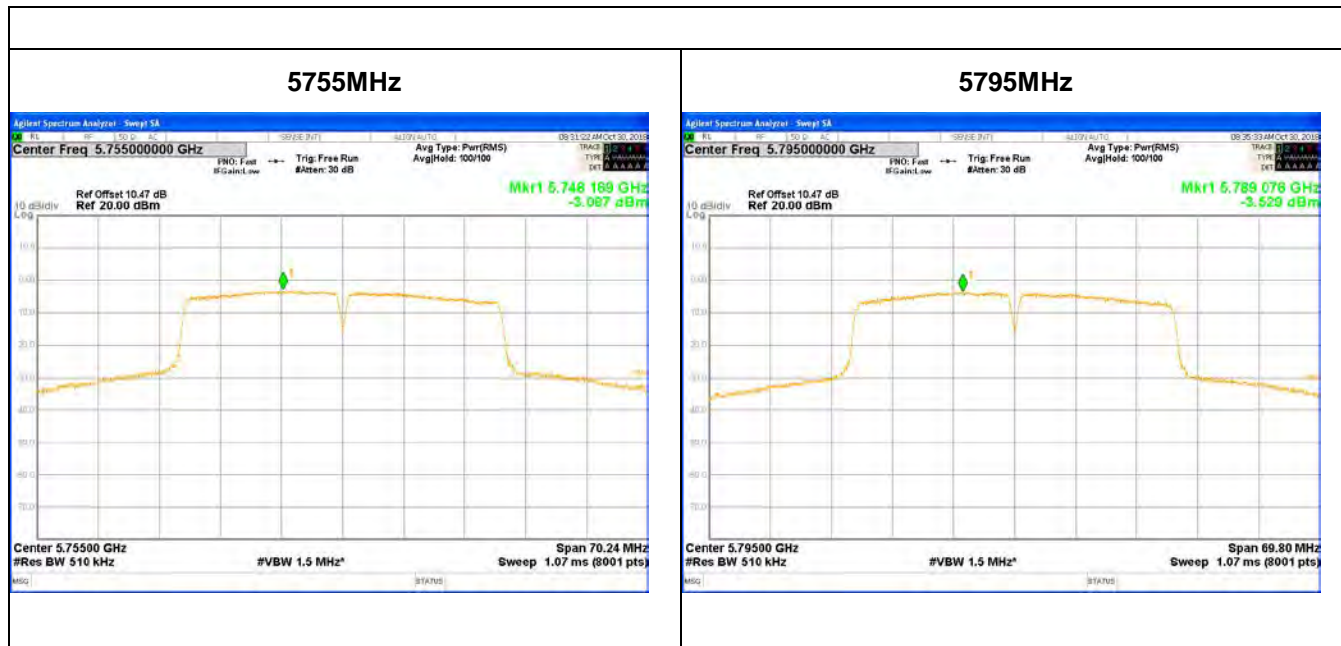


**802.11n HT20**





**802.11n HT40**







## 7. RADIATED TEST RESULTS

### LIMITS

Please refer to CFR 47 FCC §15.205, §15.209 and §15.407(b) (4)

Please refer to ISED RSS-GEN Clause 8.9

Radiation Disturbance Test Limit for FCC (Class B)(9kHz-1GHz)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

Note: 1) 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).

(2) 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). This paragraph (f) shall not apply to Access BPL devices operating below 30 MHz.



IC Restricted bands please refer to ISED RSS-GEN Clause 8.10.  
FCC Restricted bands please refer to CFR 47 FCC 15.209.

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

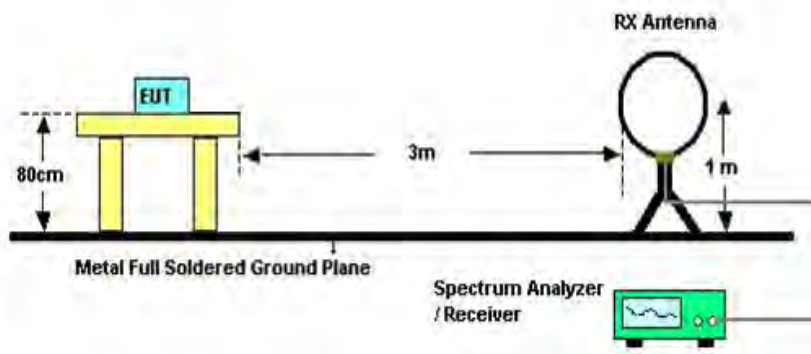
LIMITS OF RADIATED EMISSION MEASUREMENT (Below 1GHz)			
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m	
		Quasi-Peak	
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
		74	54

Limits of unwanted emission out of the restricted bands

LIMITS OF RADIATED EMISSION MEASUREMENT ( Above 1GHz)		
Frequency Range (MHz)	EIRP Limit	Field Strength Limit (dBuV/m) at 3 m
30 - 88		
5150~5250 MHz	PK:-27 (dBm/MHz)	PK:68.2(dBμV/m)
5250~5350 MHz		
5470~5725 MHz		
5725~5850 MHz	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dBμV/m) *1 PK:105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK:122.2 (dBμV/m) *4
Note: *1 beyond 75 MHz or more above of the band edge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

## TEST SETUP AND PROCEDURE

Below 30MHz

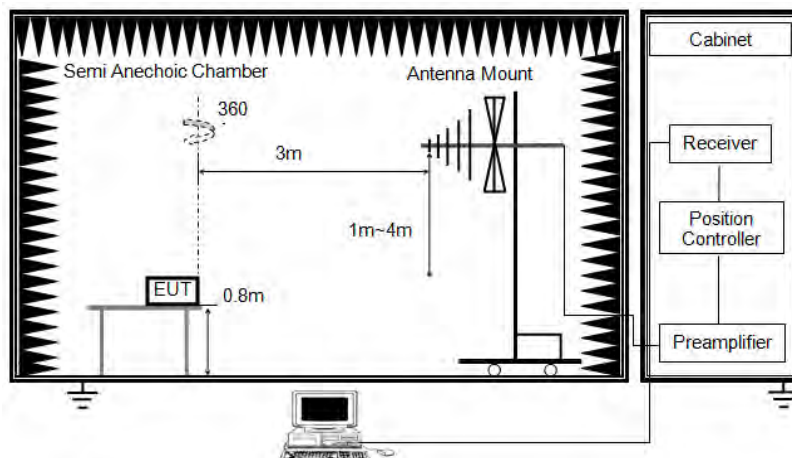


The setting of the spectrum analyser

RBW	200Hz (From 9kHz to 0.15MHz)/ 9kHz (From 0.15MHz to 30MHz)
VBW	200Hz (From 9kHz to 0.15MHz)/ 9kHz (From 0.15MHz to 30MHz)
Sweep	Auto
Detector	Peak/QP/ Average
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013
2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the re set to make the measurement.
3. The EUT was placed on a turntable with 0.8 meter above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
6. Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30m open are test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

Below 1G

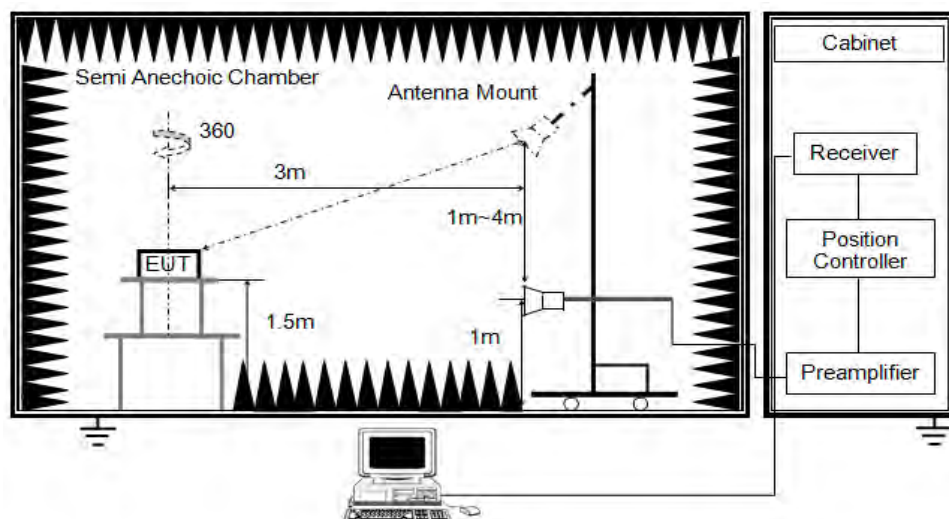


The setting of the spectrum analyser

RBW	120kHz
VBW	300kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the re set to make the measurement.
3. The EUT was placed on a turntable with 0.8 meter above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

Above 1G

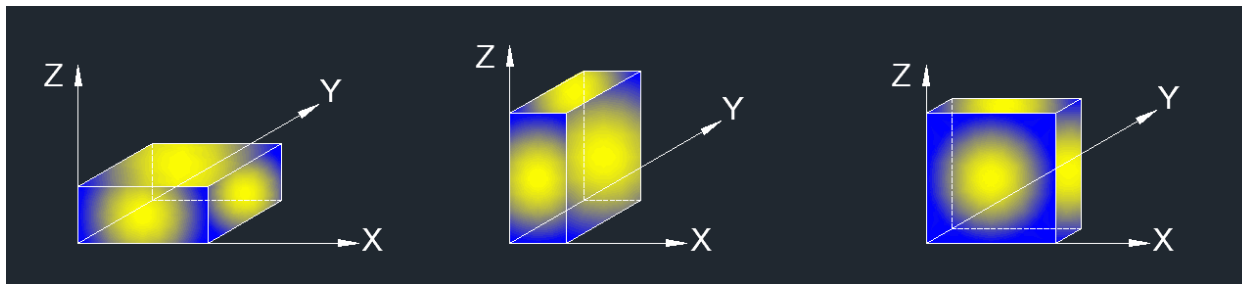


The setting of the spectrum analyser

RBW	1MHz
VBW	PEAK: 3MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the re set to make the measurement.
3. The EUT was placed on a turntable with 1.5m above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement above 1GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector. For the Duty Cycle please refer to clause 6.1.ON TIME AND DUTY CYCLE.

X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (Z axis) data recorded in the report.

Note 2: The EUT was fully exercised with external accessories during the test. In the case of multiple accessory external ports, an external accessory shall be connected to one of each type of port.

### **TEST ENVIRONMENT**

Temperature	23.2°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.8V



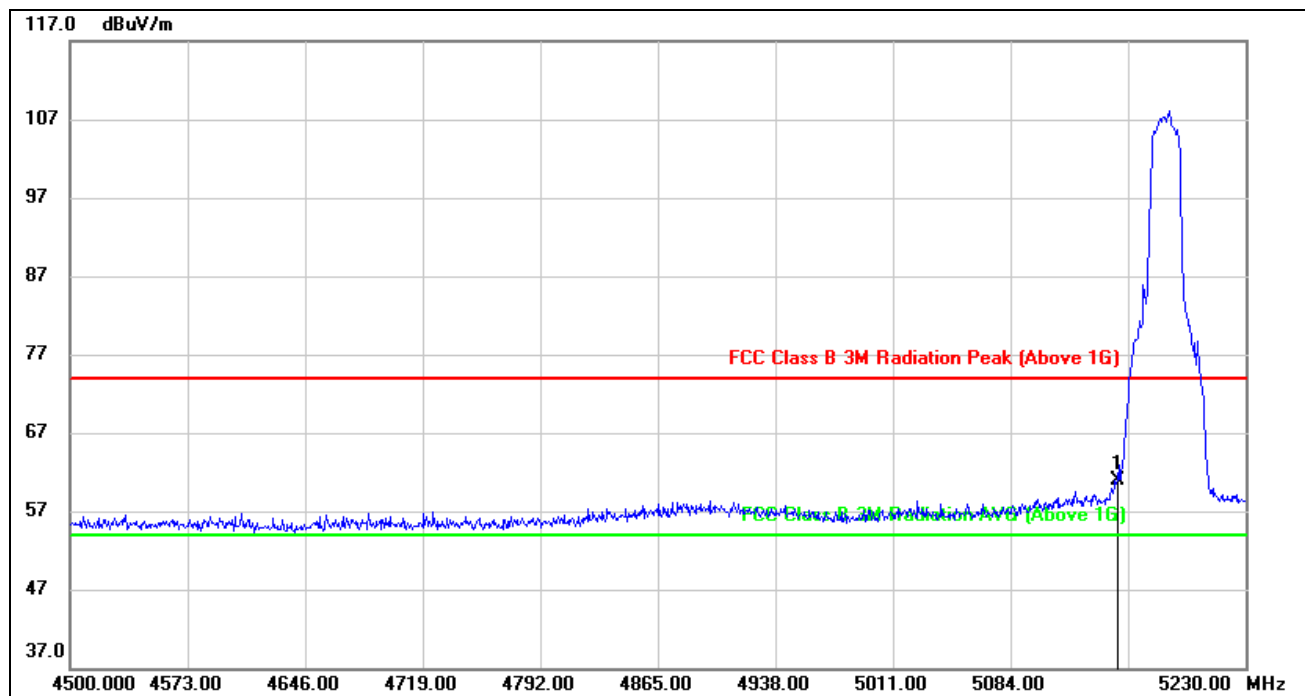
## 7.1. 802.11a MODE

### MODE (WORST-CASE CONFIGURATION)

#### 7.1.1. UNII-1 BAND

#### RESTRICTED BANDEDGE LOW CHANNEL

### HORIZONTAL RESULTS PEAK

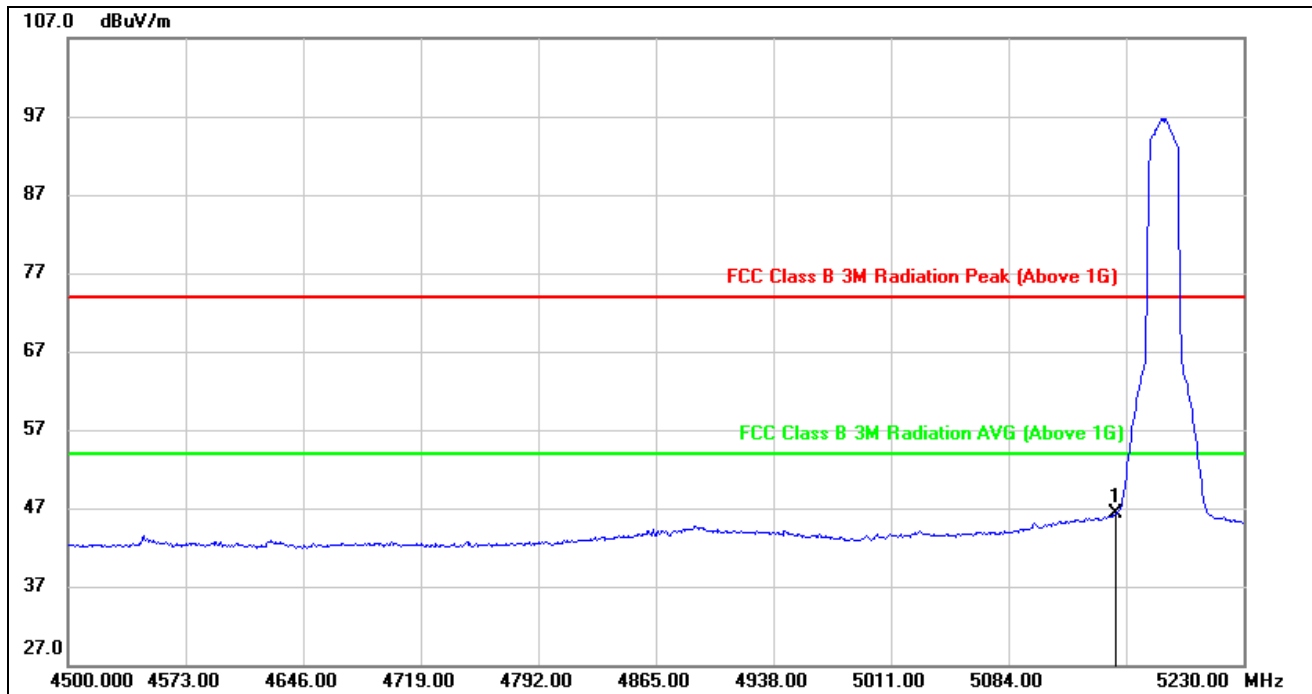


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	20.41	40.40	60.81	74.00	-13.19	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



### AVG



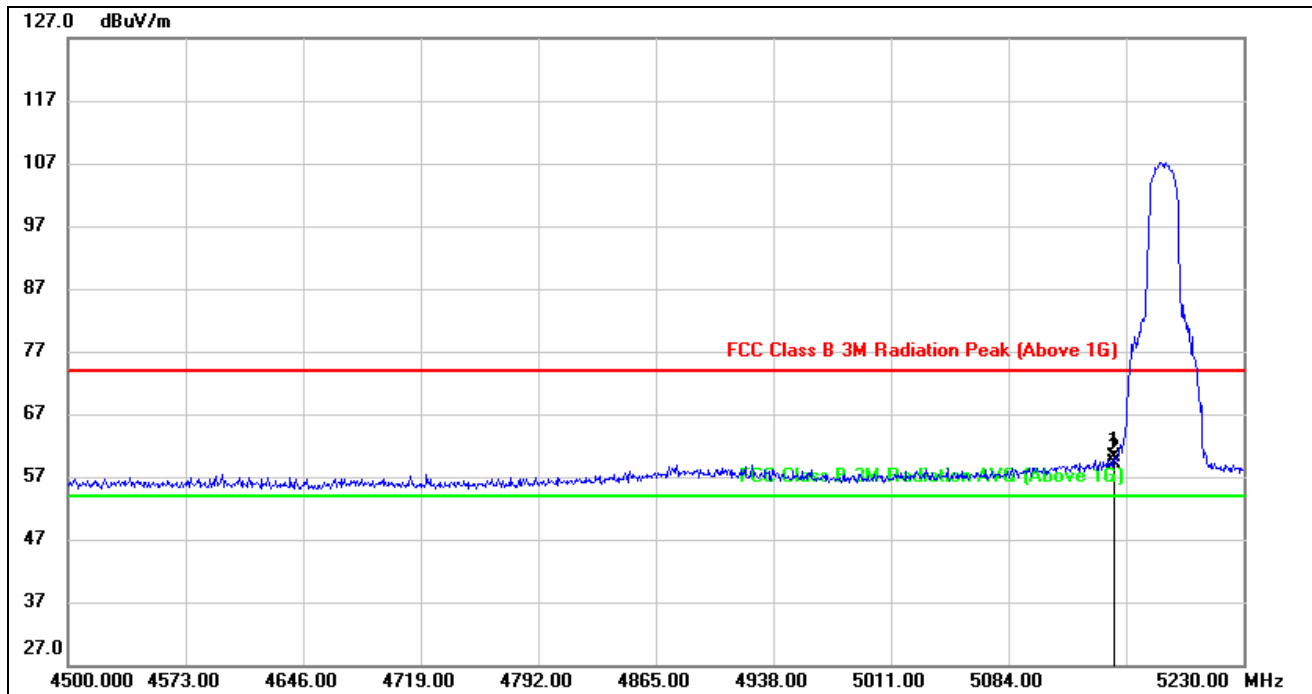
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	5.92	40.40	46.32	54.00	-7.68	AVG

Note: 1. Measurement = Reading Level + Correct Factor.  
2. AVG:  $VBW=1/Ton$  where: ton is transmit duration.  
3. For duty cycle, please refer to clause 6.1.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.





**VERTICAL RESULTS**  
**PEAK**

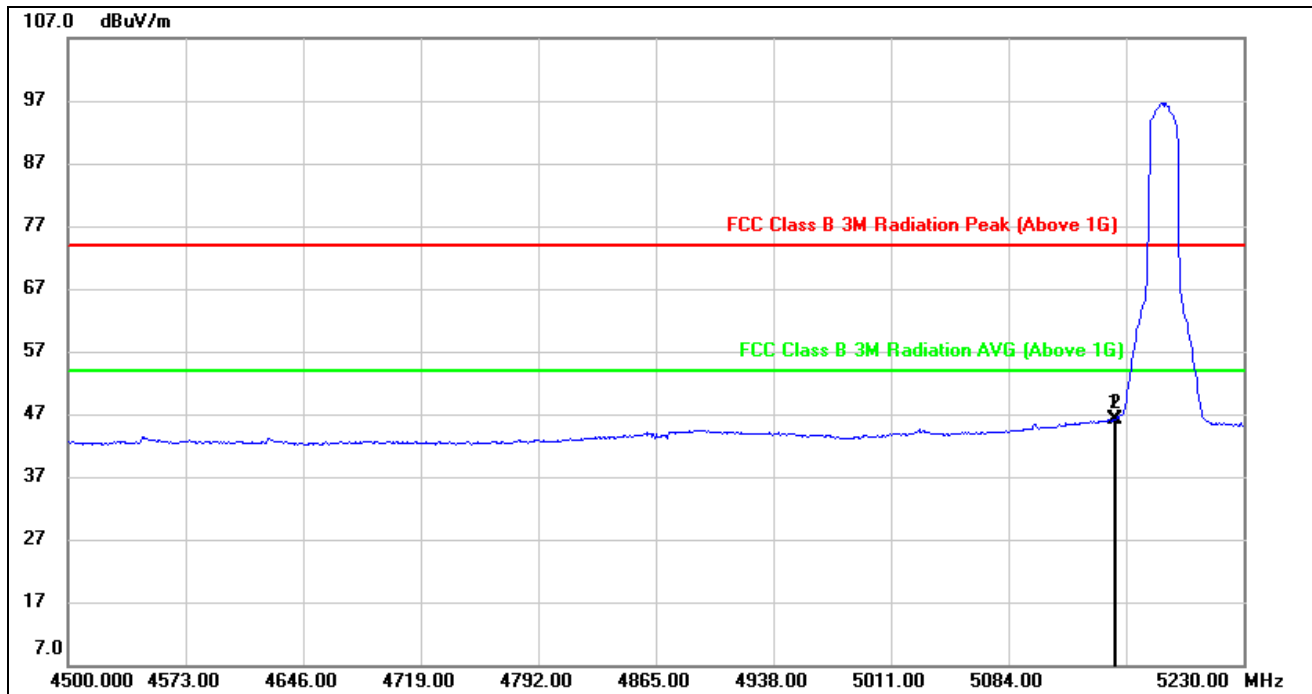


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5149.700	19.58	40.60	60.18	74.00	-13.82	peak
2	5150.000	18.54	40.60	59.14	74.00	-14.86	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



### AVG



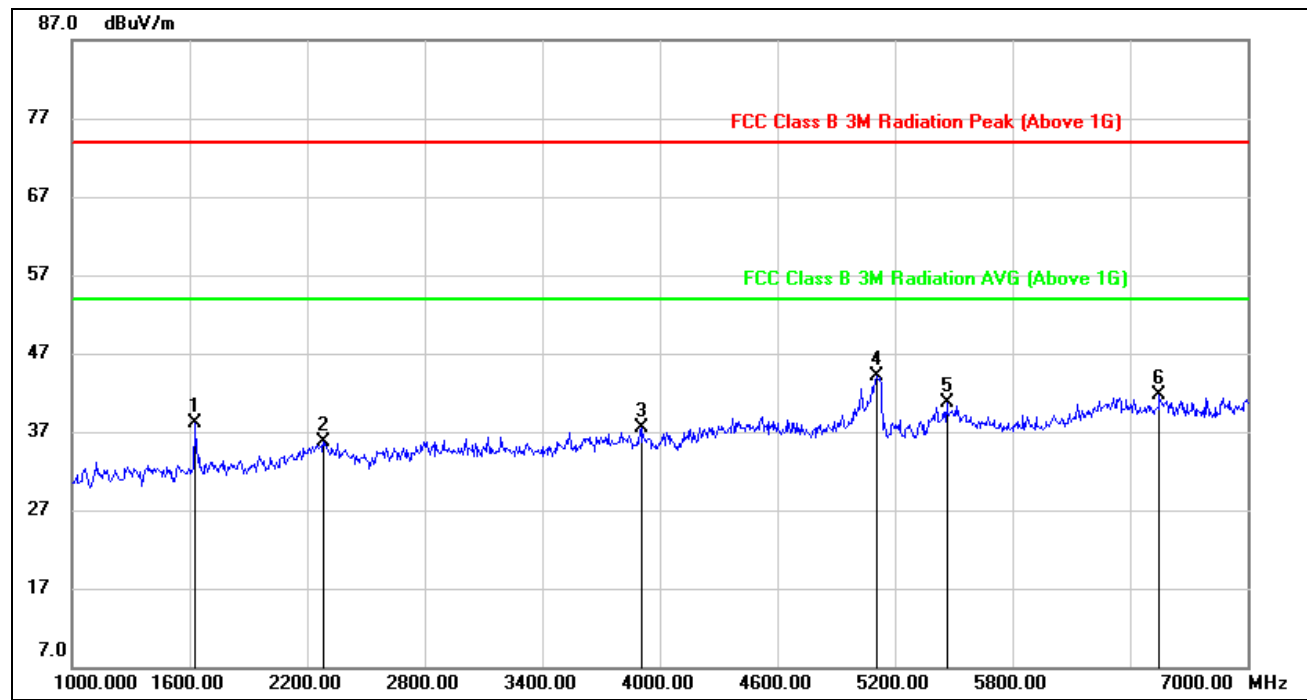
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5149.700	5.49	40.60	46.09	54.00	-7.91	AVG
2	5150.000	5.58	40.60	46.18	54.00	-7.82	AVG

Note: 1. Measurement = Reading Level + Correct Factor.  
2. AVG:  $VBW=1/Ton$  where: ton is transmit duration.  
3. For duty cycle, please refer to clause 6.1.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



## HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL

### HORIZONTAL RESULTS 1-7GHz

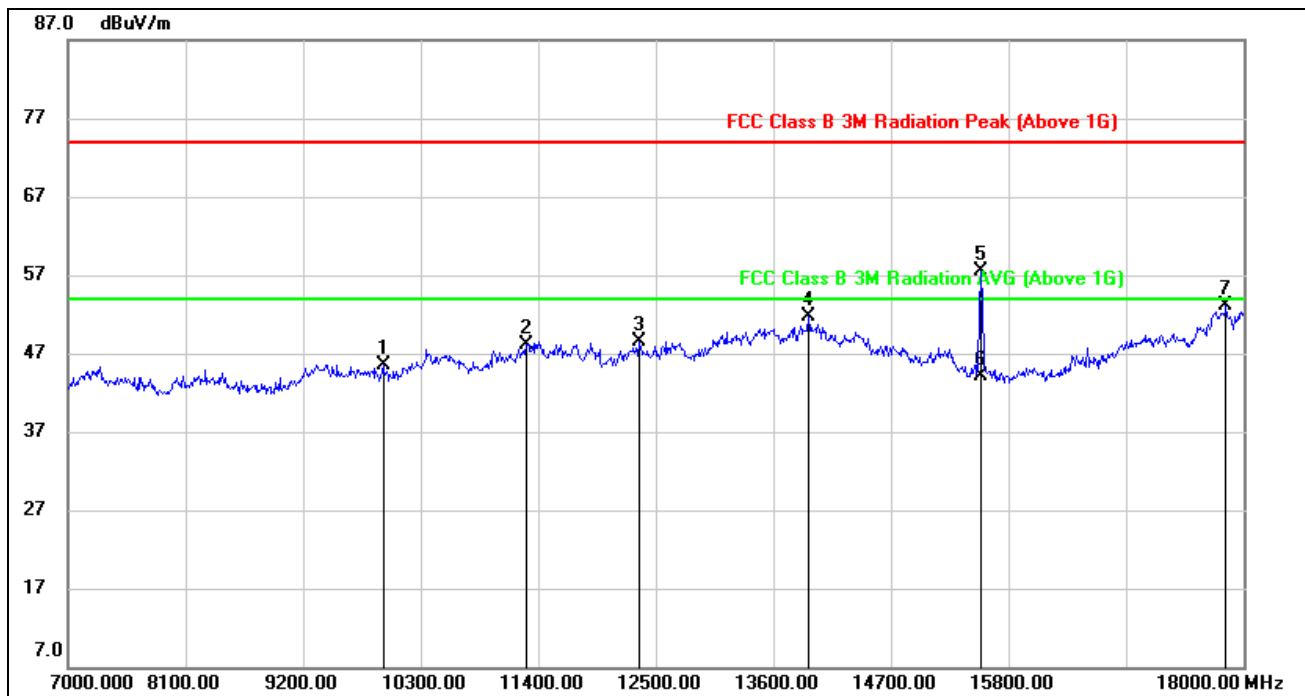


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1624.000	50.53	-12.50	38.03	74.00	-35.97	peak
2	2284.000	44.08	-8.37	35.71	74.00	-38.29	peak
3	3904.000	42.05	-4.64	37.41	74.00	-36.59	peak
4	5110.000	44.61	-0.44	44.17	74.00	-29.83	peak
5	5464.000	40.01	0.78	40.79	74.00	-33.21	peak
6	6550.000	37.83	3.89	41.72	74.00	-32.28	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### HORIZONTAL RESULTS 7-18GHz

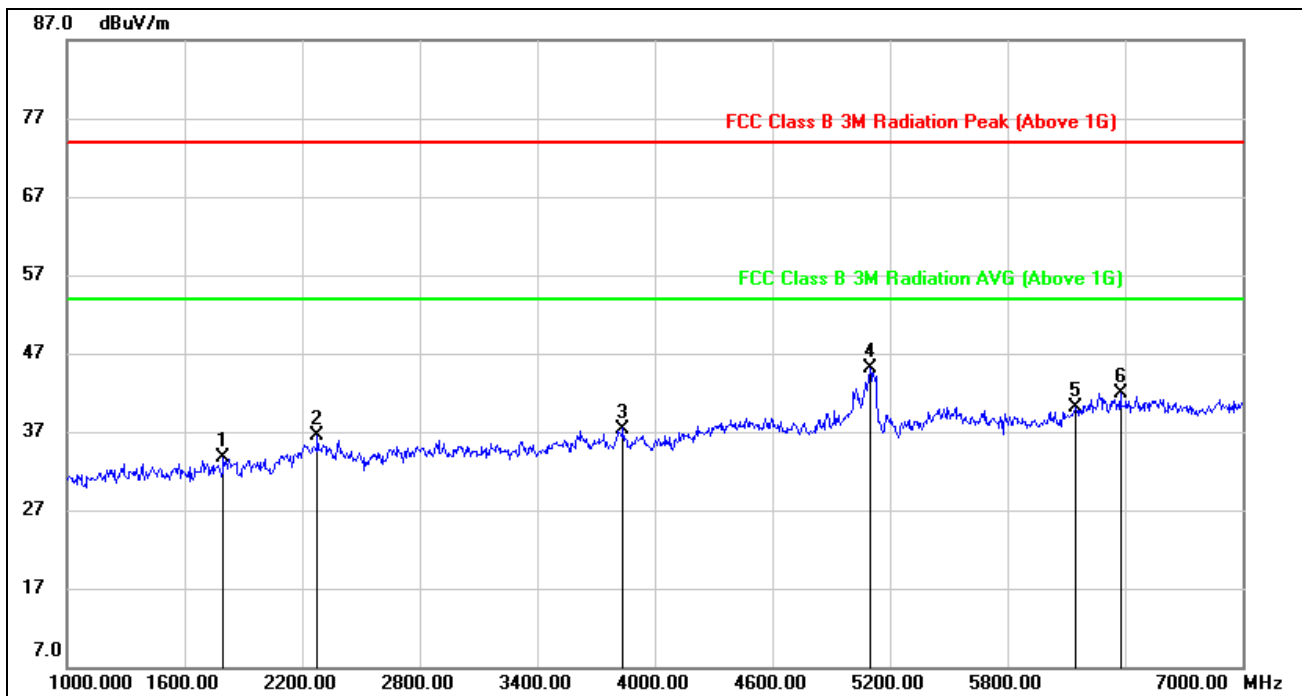


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9948.000	35.24	10.36	45.60	74.00	-28.40	peak
2	11290.000	34.50	13.66	48.16	74.00	-25.84	peak
3	12346.000	33.99	14.52	48.51	74.00	-25.49	peak
4	13930.000	33.09	18.55	51.64	74.00	-22.36	peak
5	15540.000	42.46	15.01	57.47	74.00	-16.53	peak
6	15540.000	29.03	15.01	44.04	54.00	-9.96	AVG
7	17835.000	28.95	24.25	53.20	74.00	-20.80	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



**VERTICAL RESULTS**  
**1-7GHz**

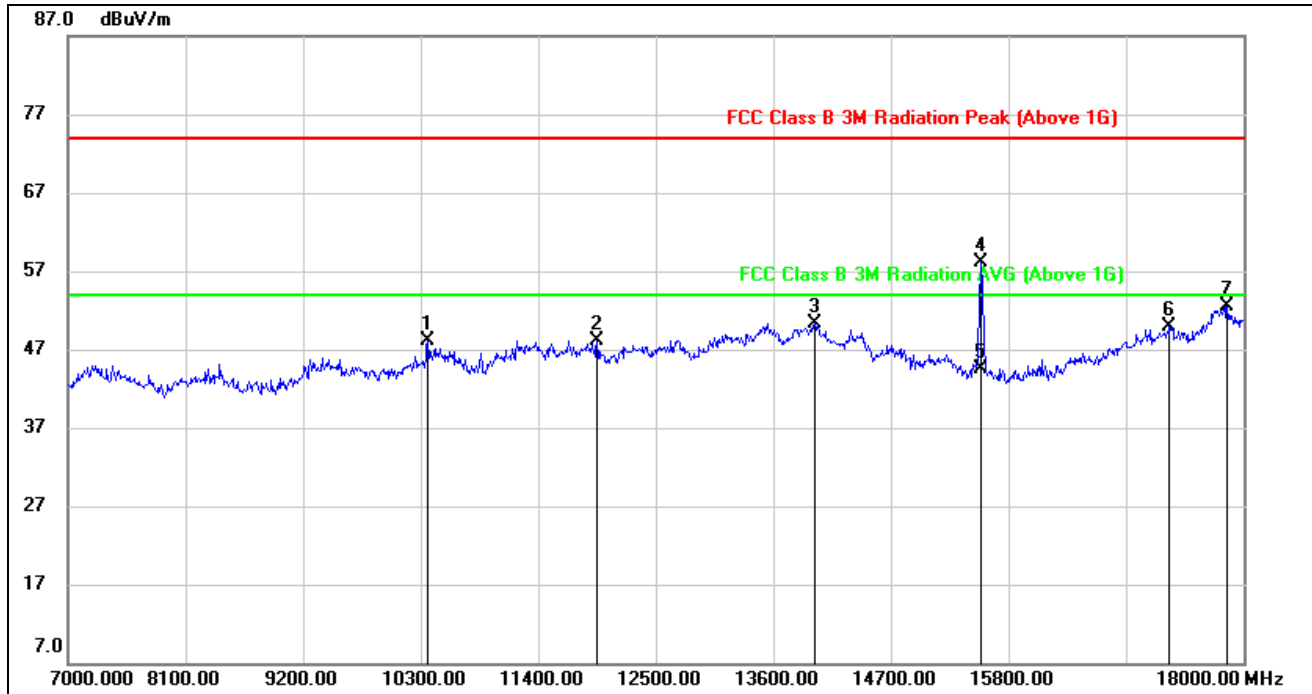


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1798.000	45.44	-11.74	33.70	74.00	-40.30	peak
2	2278.000	44.69	-8.25	36.44	74.00	-37.56	peak
3	3838.000	42.00	-4.60	37.40	74.00	-36.60	peak
4	5098.000	45.31	-0.30	45.01	74.00	-28.99	peak
5	6148.000	37.53	2.56	40.09	74.00	-33.91	peak
6	6376.000	38.65	3.31	41.96	74.00	-32.04	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### 7-18GHz



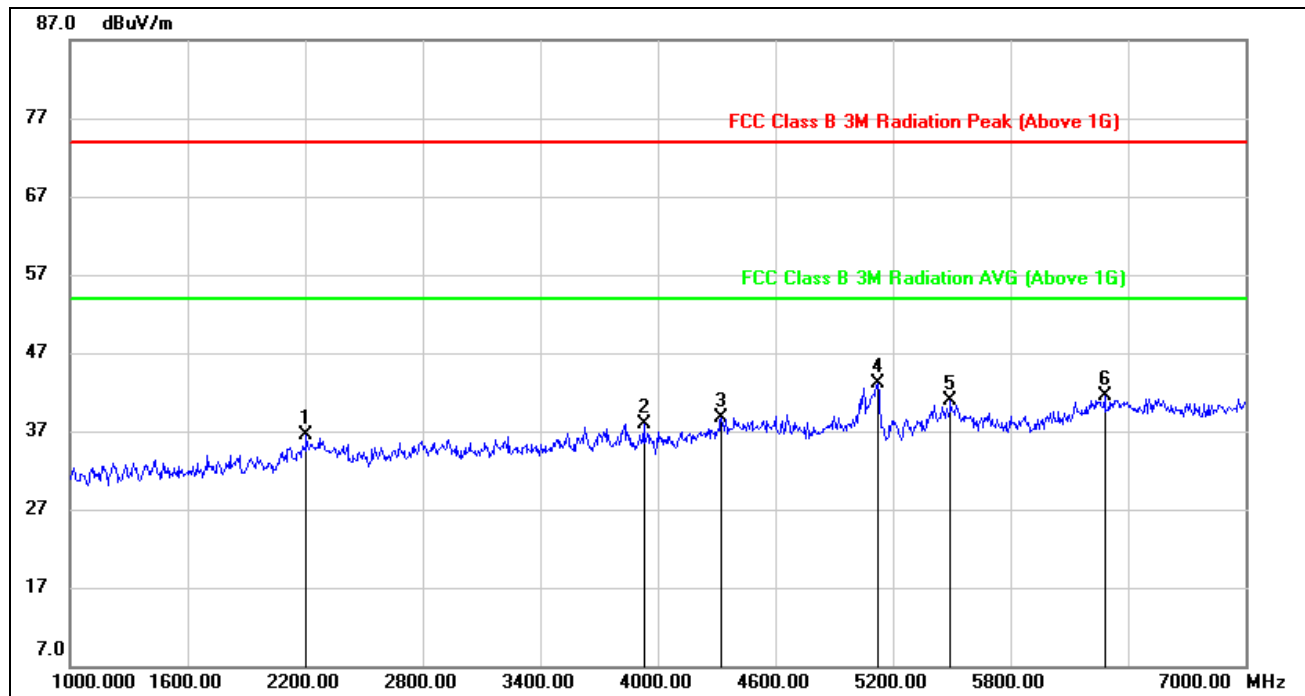
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10366.000	36.81	11.27	48.08	74.00	-25.92	peak
2	11950.000	33.37	14.75	48.12	74.00	-25.88	peak
3	13985.000	31.75	18.60	50.35	74.00	-23.65	peak
4	15540.000	42.95	15.21	58.16	74.00	-15.84	peak
5	15540.000	29.27	15.21	44.48	54.00	-9.52	AVG
6	17307.000	28.88	20.95	49.83	74.00	-24.17	peak
7	17846.000	28.57	23.93	52.50	74.00	-21.50	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



## HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL

### HORIZONTAL RESULTS 1-7GHz

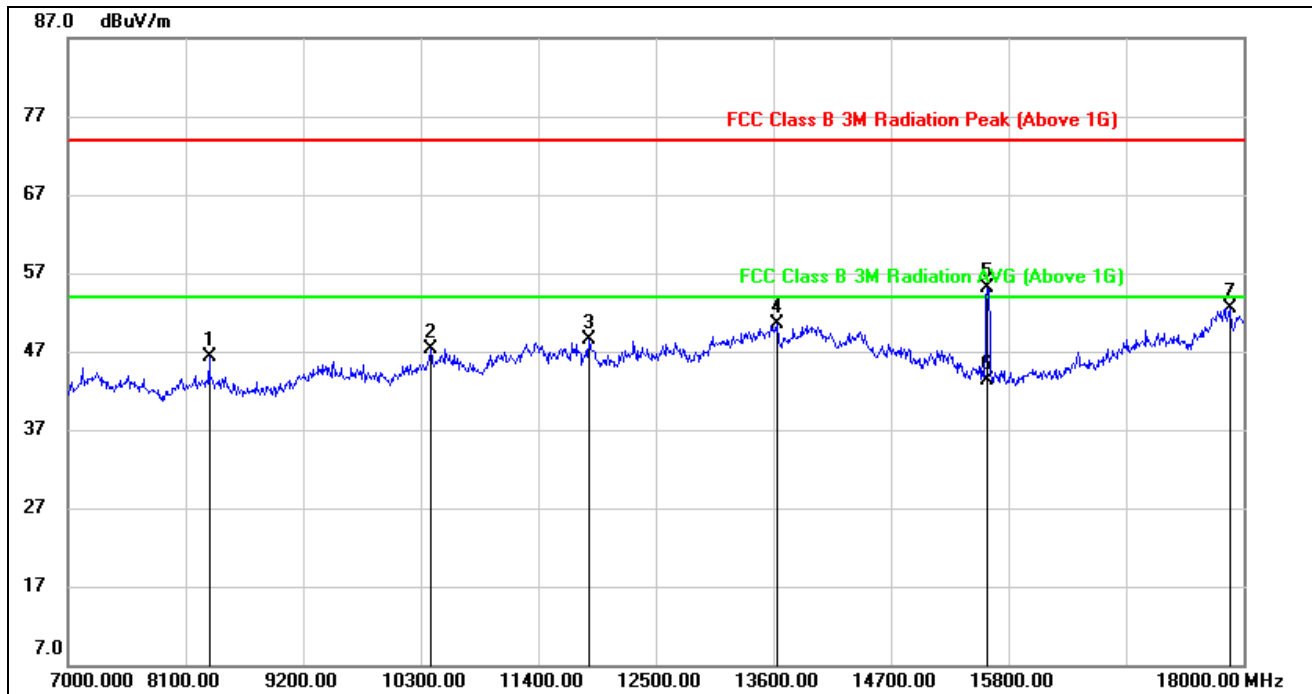


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2206.000	45.31	-8.82	36.49	74.00	-37.51	peak
2	3928.000	42.46	-4.59	37.87	74.00	-36.13	peak
3	4324.000	41.62	-2.98	38.64	74.00	-35.36	peak
4	5122.000	43.56	-0.38	43.18	74.00	-30.82	peak
5	5494.000	40.00	0.99	40.99	74.00	-33.01	peak
6	6280.000	38.32	3.14	41.46	74.00	-32.54	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### HORIZONTAL RESULTS 7-18GHz



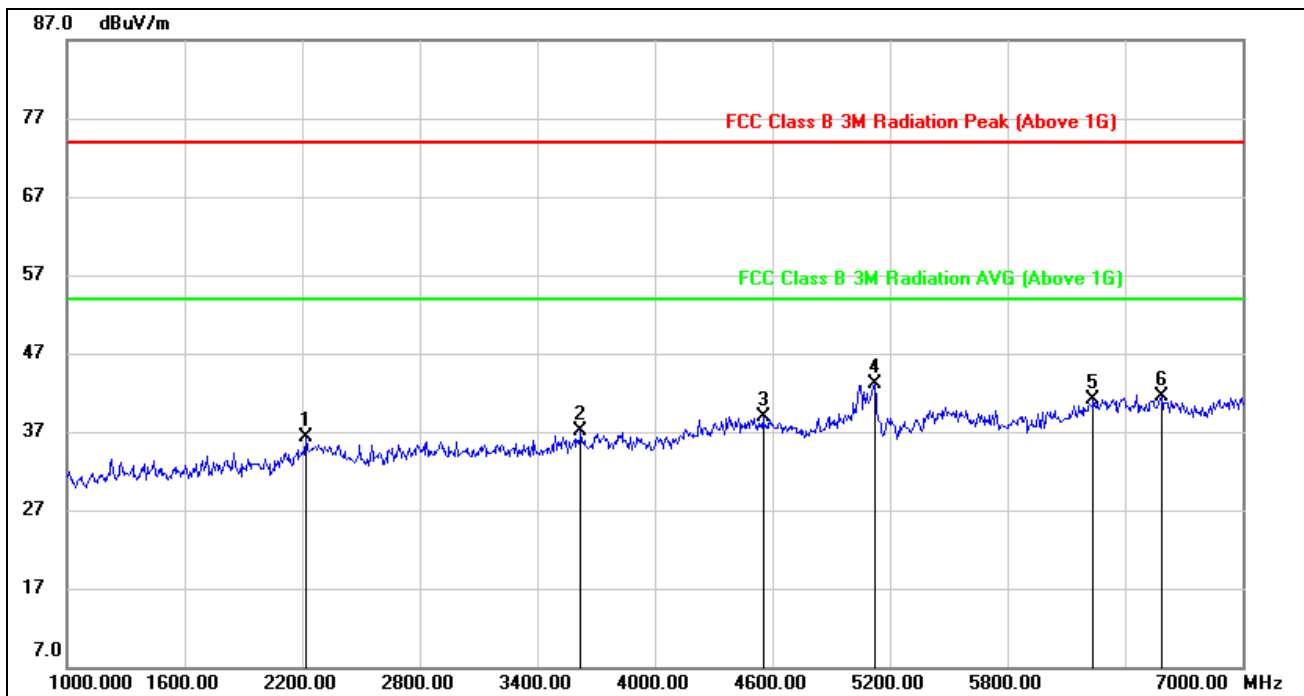
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8320.000	39.55	6.84	46.39	74.00	-27.61	peak
2	10399.000	35.96	11.40	47.36	74.00	-26.64	peak
3	11873.000	33.72	14.69	48.41	74.00	-25.59	peak
4	13633.000	32.06	18.43	50.49	74.00	-23.51	peak
5	15600.000	40.22	14.81	55.03	74.00	-18.97	peak
6	15600.000	28.58	14.81	43.39	54.00	-10.61	AVG
7	17868.000	28.30	24.16	52.46	74.00	-21.54	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.





**VERTICAL RESULTS**  
**1-7GHz**

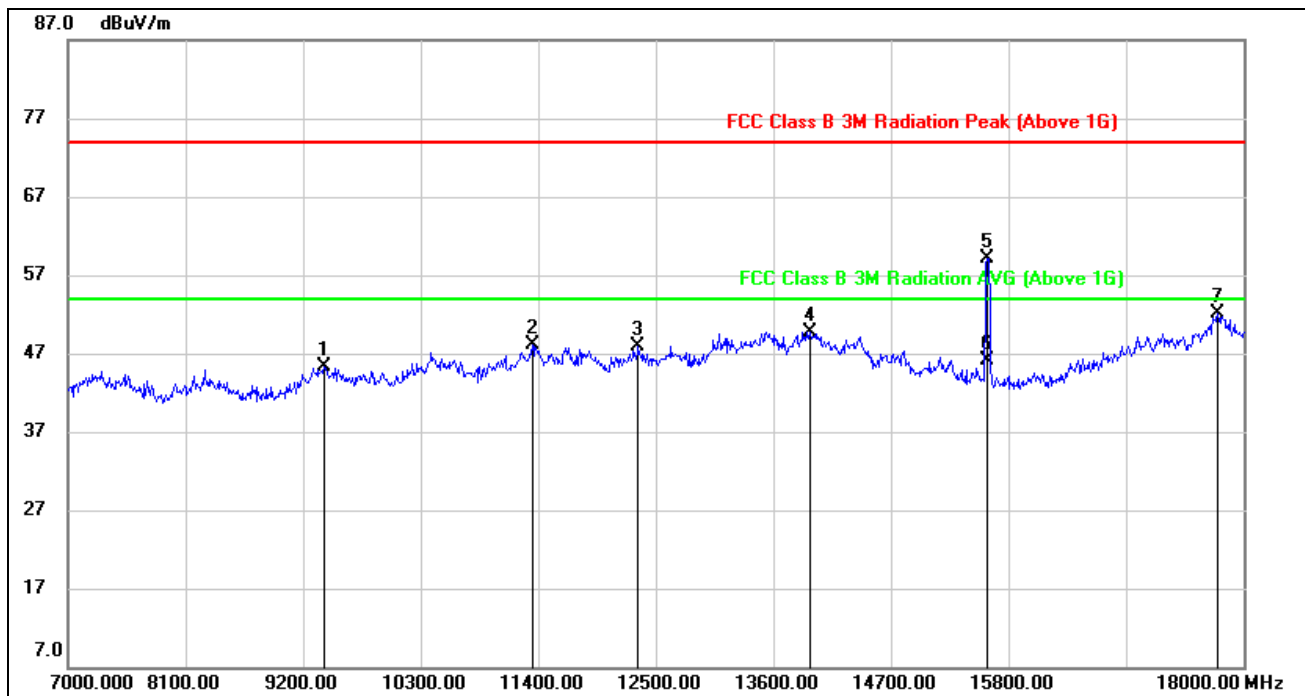


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2218.000	45.00	-8.70	36.30	74.00	-37.70	peak
2	3622.000	42.60	-5.45	37.15	74.00	-36.85	peak
3	4552.000	40.90	-2.06	38.84	74.00	-35.16	peak
4	5122.000	43.37	-0.18	43.19	74.00	-30.81	peak
5	6238.000	37.99	3.04	41.03	74.00	-32.97	peak
6	6586.000	37.32	4.22	41.54	74.00	-32.46	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### 7-18GHz



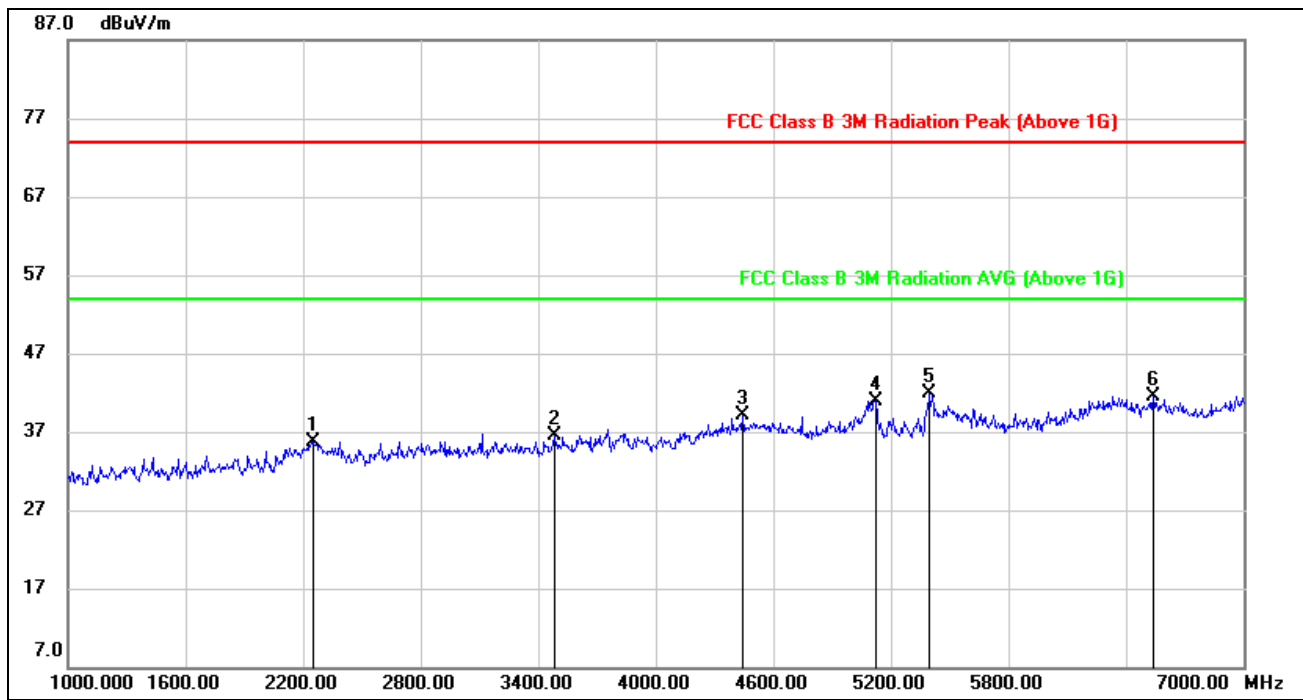
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9398.000	35.81	9.55	45.36	74.00	-28.64	peak
2	11345.000	34.47	13.61	48.08	74.00	-25.92	peak
3	12335.000	33.39	14.55	47.94	74.00	-26.06	peak
4	13941.000	31.12	18.67	49.79	74.00	-24.21	peak
5	15600.000	44.12	15.01	59.13	74.00	-14.87	peak
6	15600.000	31.08	15.01	46.09	54.00	-7.91	AVG
7	17758.000	28.00	24.08	52.08	74.00	-21.92	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



## HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL

### HORIZONTAL RESULTS 1-7GHz

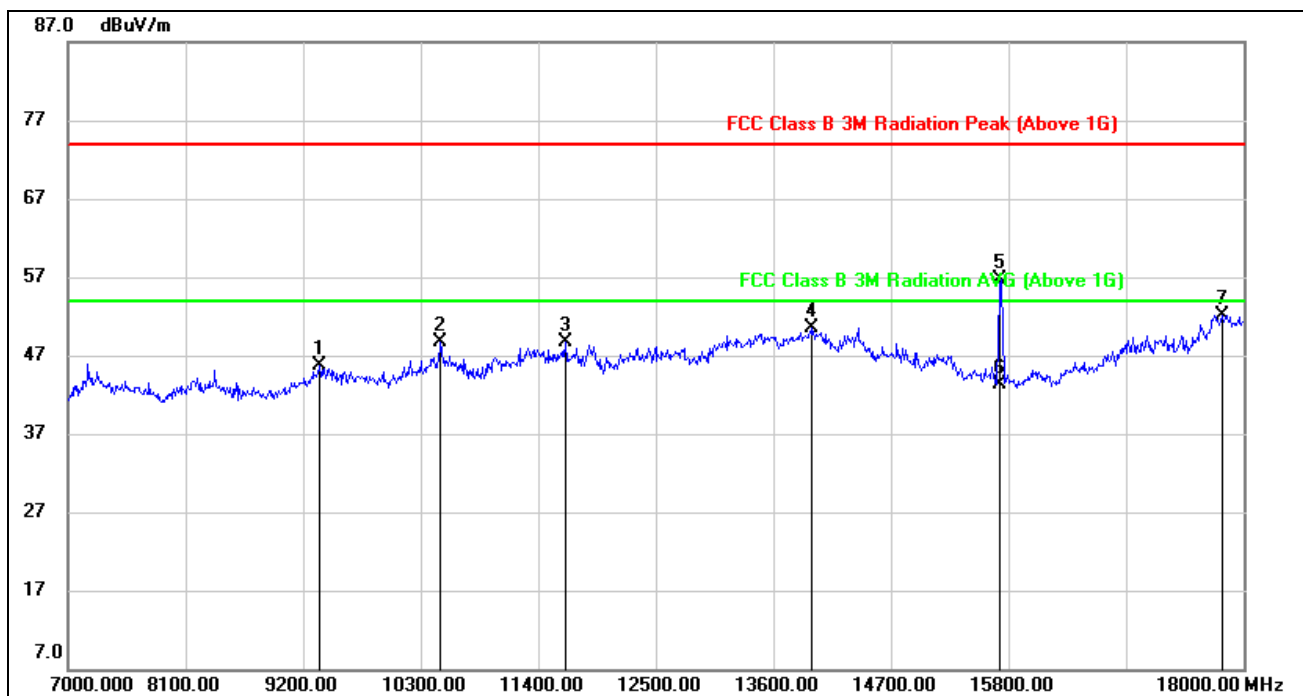


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2248.000	44.10	-8.40	35.70	74.00	-38.30	peak
2	3484.000	42.66	-6.13	36.53	74.00	-37.47	peak
3	4444.000	41.50	-2.41	39.09	74.00	-34.91	peak
4	5122.000	41.28	-0.38	40.90	74.00	-33.10	peak
5	5398.000	41.61	0.30	41.91	74.00	-32.09	peak
6	6538.000	37.70	3.76	41.46	74.00	-32.54	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### HORIZONTAL RESULTS 7-18GHz

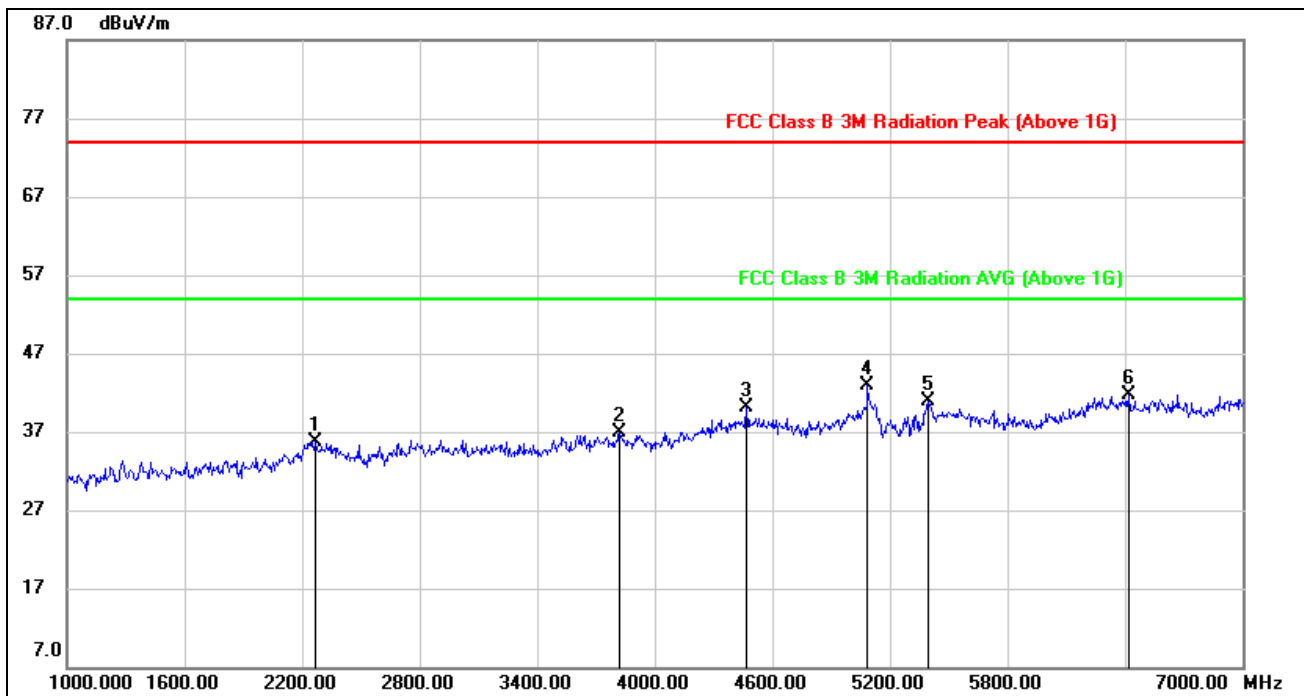


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9354.000	36.26	9.41	45.67	74.00	-28.33	peak
2	10487.000	36.78	11.85	48.63	74.00	-25.37	peak
3	11653.000	34.78	13.95	48.73	74.00	-25.27	peak
4	13963.000	32.07	18.53	50.60	74.00	-23.40	peak
5	15720.000	41.23	15.49	56.72	74.00	-17.28	peak
6	15720.000	27.73	15.49	43.22	54.00	-10.78	AVG
7	17802.000	27.94	24.24	52.18	74.00	-21.82	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



**VERTICAL RESULTS**  
**1-7GHz**

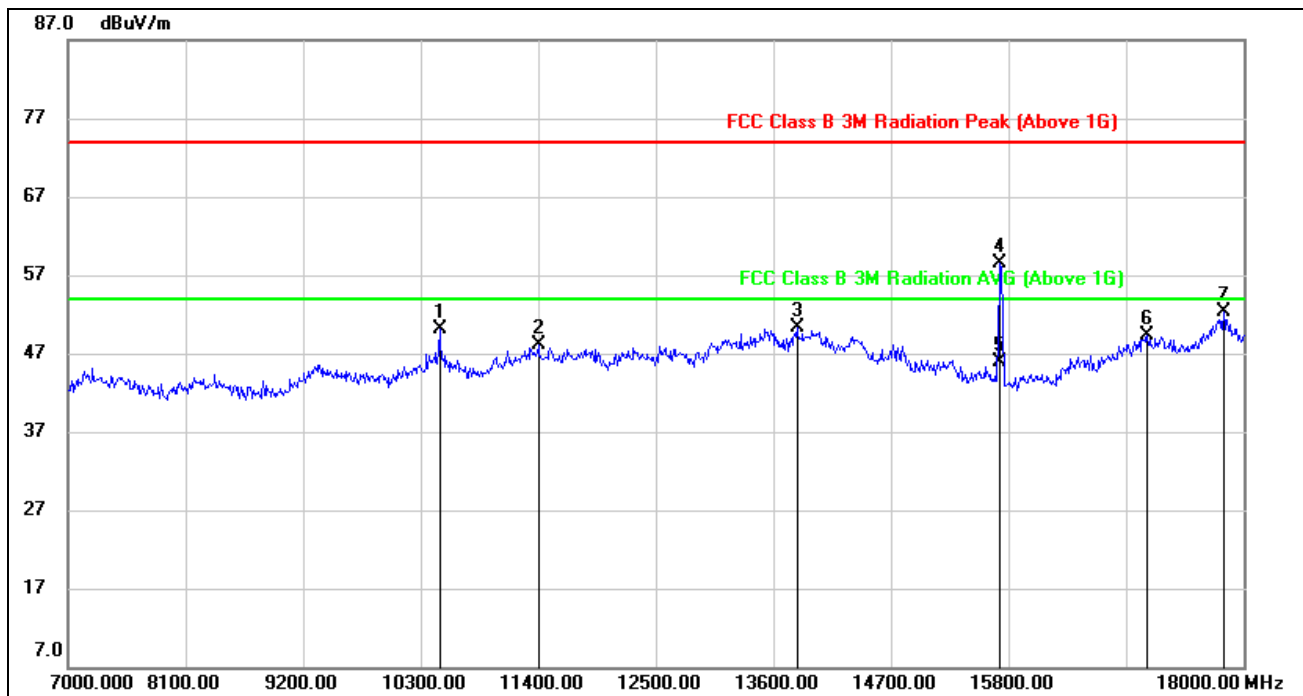


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2266.000	44.10	-8.31	35.79	74.00	-38.21	peak
2	3820.000	41.65	-4.68	36.97	74.00	-37.03	peak
3	4468.000	42.33	-2.24	40.09	74.00	-33.91	peak
4	5086.000	43.24	-0.38	42.86	74.00	-31.14	peak
5	5392.000	40.69	0.27	40.96	74.00	-33.04	peak
6	6418.000	38.42	3.36	41.78	74.00	-32.22	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### 7-18GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10476.000	38.13	11.90	50.03	74.00	-23.97	peak
2	11400.000	34.55	13.64	48.19	74.00	-25.81	peak
3	13820.000	31.43	18.94	50.37	74.00	-23.63	peak
4	15720.000	42.85	15.73	58.58	74.00	-15.42	peak
5	15720.000	30.14	15.73	45.87	54.00	-8.13	AVG
6	17098.000	28.59	20.65	49.24	74.00	-24.76	peak
7	17813.000	27.86	24.44	52.30	74.00	-21.70	peak

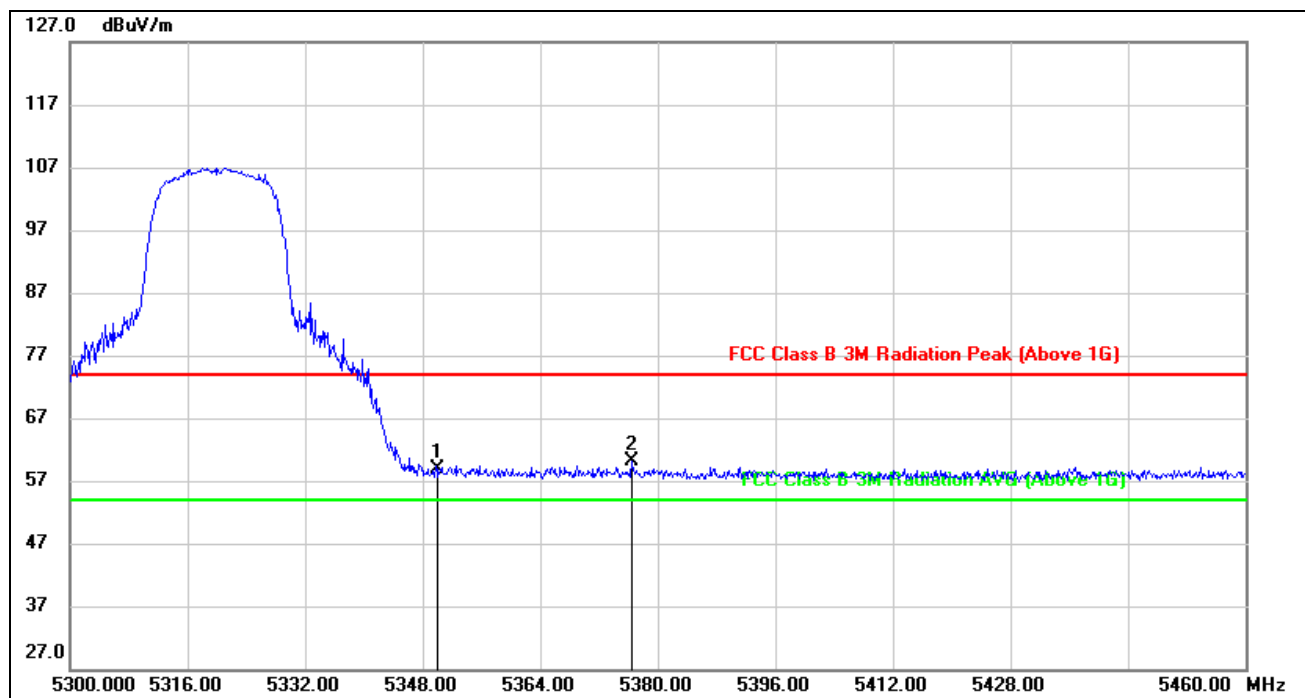
Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### 7.1.2. UNII-2A BAND

#### RESTRICTED BANDEDGE HIGH CHANNEL

#### HORIZONTAL RESULTS PEAK

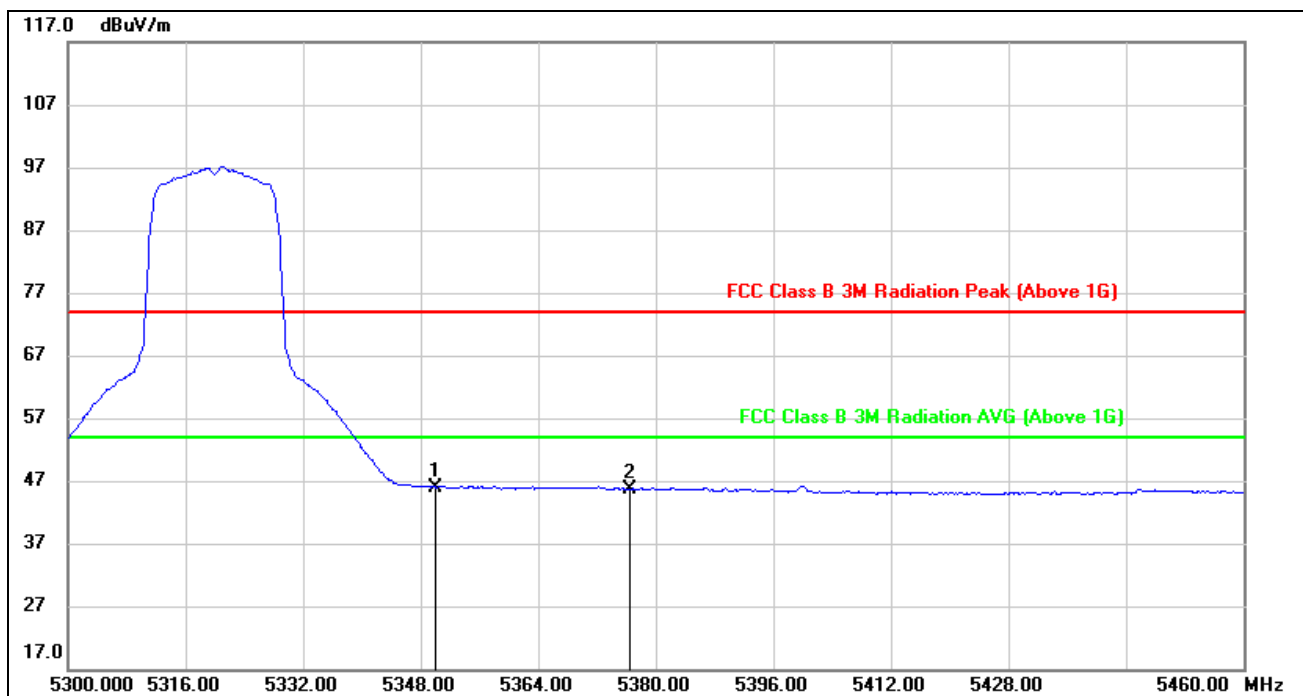


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	18.38	40.44	58.82	74.00	-15.18	peak
2	5376.480	19.36	40.66	60.02	74.00	-13.98	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



### AVG



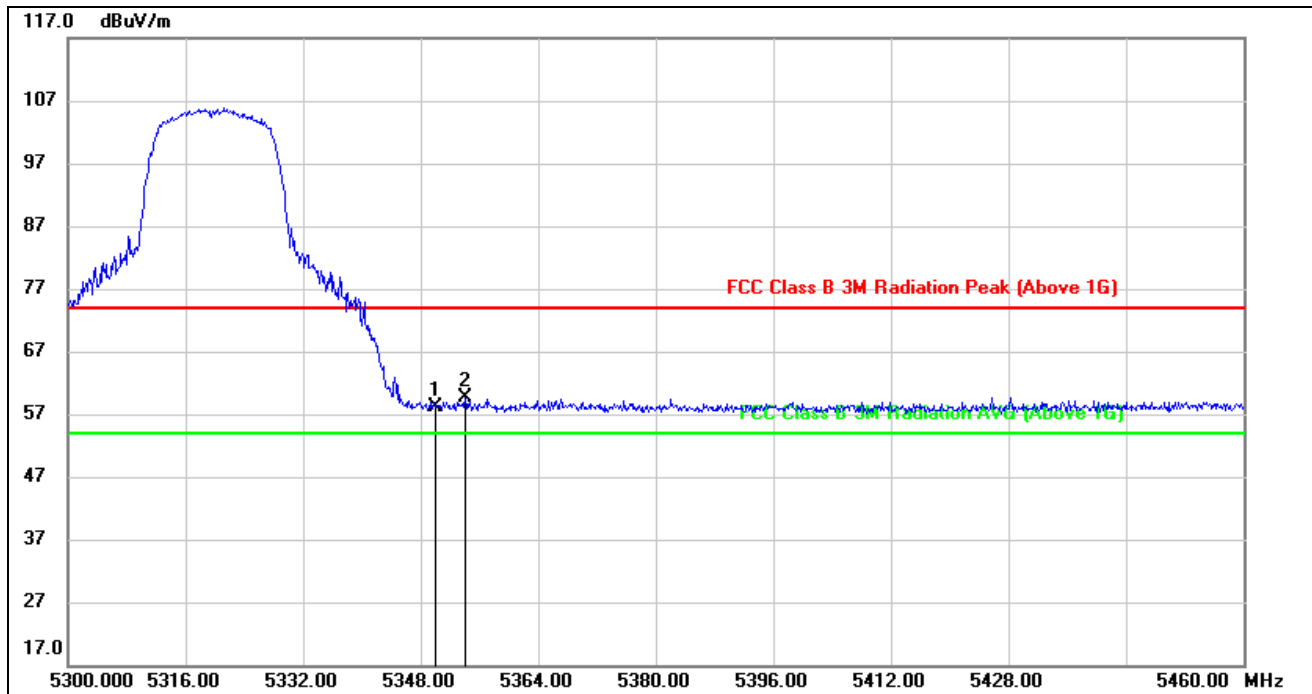
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	5.52	40.44	45.96	54.00	-8.04	AVG
2	5376.480	5.01	40.66	45.67	54.00	-8.33	AVG

Note: 1. Measurement = Reading Level + Correct Factor.  
2. AVG:  $VBW=1/Ton$  where: ton is transmit duration.  
3. For duty cycle, please refer to clause 6.1.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.





**VERTICAL RESULTS**  
**PEAK**

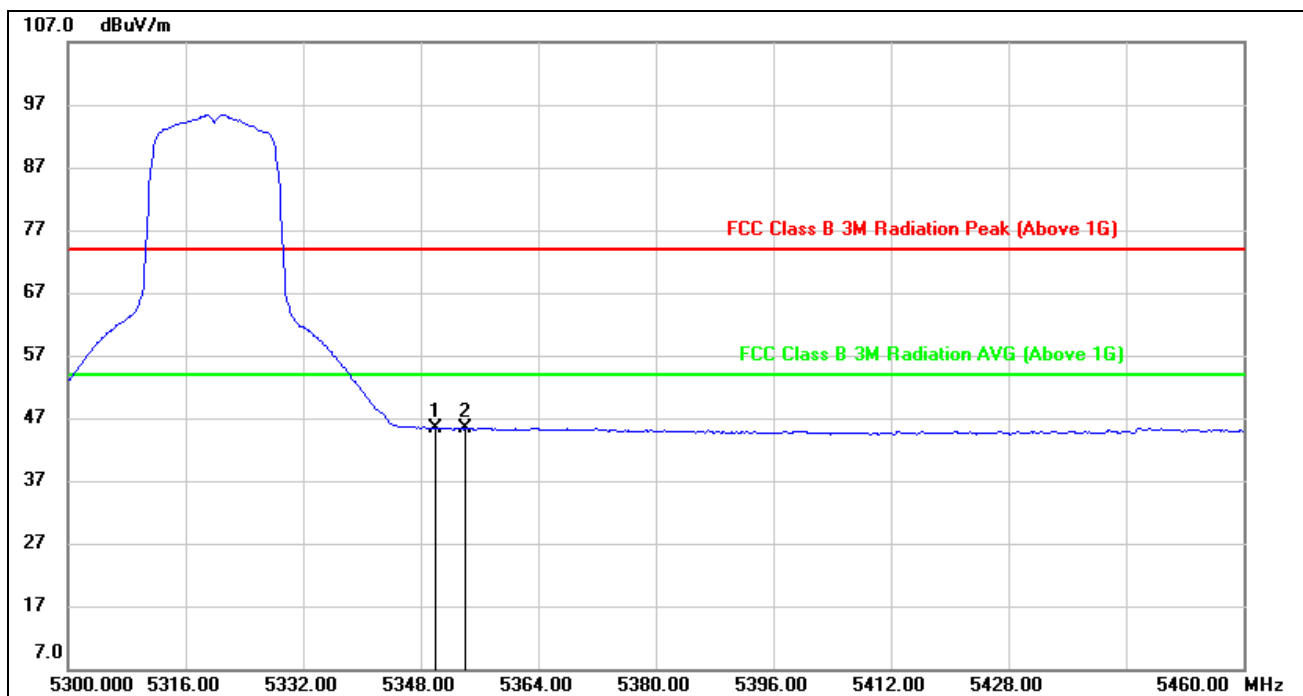


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	17.62	40.54	58.16	74.00	-15.84	peak
2	5354.080	18.96	40.57	59.53	74.00	-14.47	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



### AVG



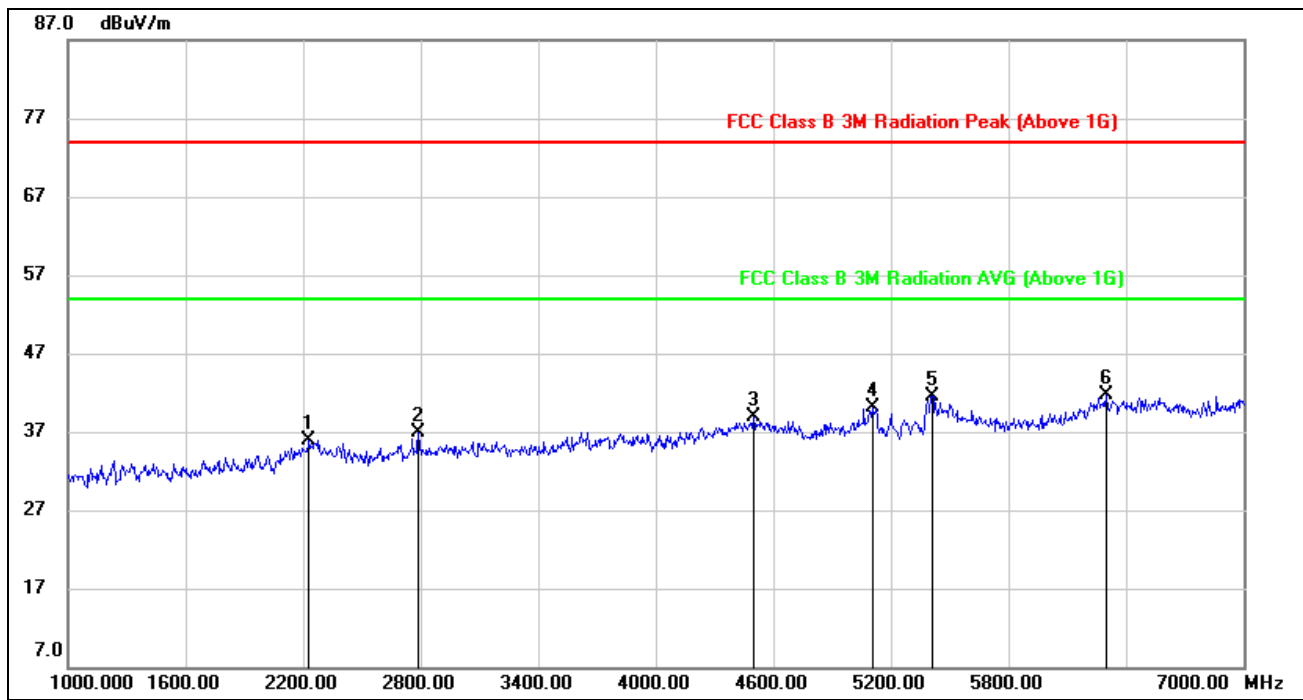
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	4.85	40.54	45.39	54.00	-8.61	AVG
2	5354.080	4.73	40.57	45.30	54.00	-8.70	AVG

Note: 1. Measurement = Reading Level + Correct Factor.  
2. AVG:  $VBW=1/Ton$  where: ton is transmit duration.  
3. For duty cycle, please refer to clause 6.1.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



## HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL

### HORIZONTAL RESULTS 1-7GHz

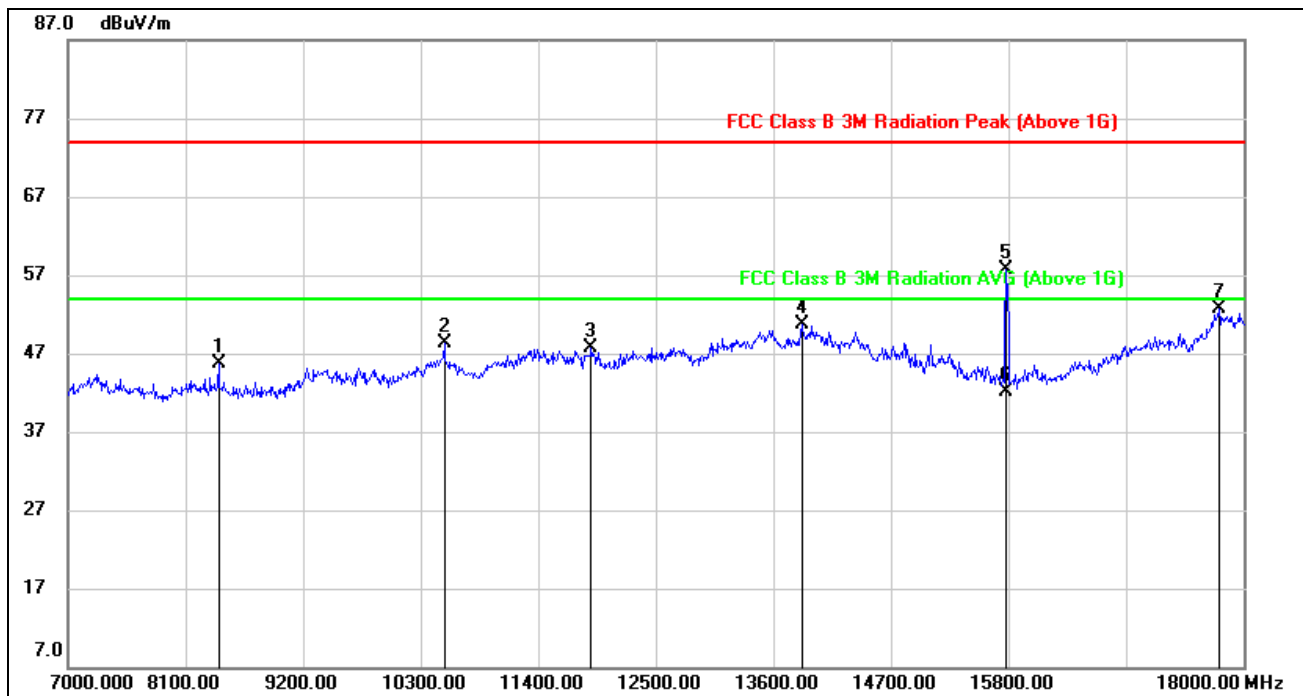


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2230.000	44.40	-8.57	35.83	74.00	-38.17	peak
2	2788.000	44.60	-7.77	36.83	74.00	-37.17	peak
3	4498.000	41.11	-2.26	38.85	74.00	-35.15	peak
4	5104.000	40.63	-0.47	40.16	74.00	-33.84	peak
5	5410.000	41.17	0.39	41.56	74.00	-32.44	peak
6	6298.000	38.37	3.24	41.61	74.00	-32.39	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### HORIZONTAL RESULTS 7-18GHz

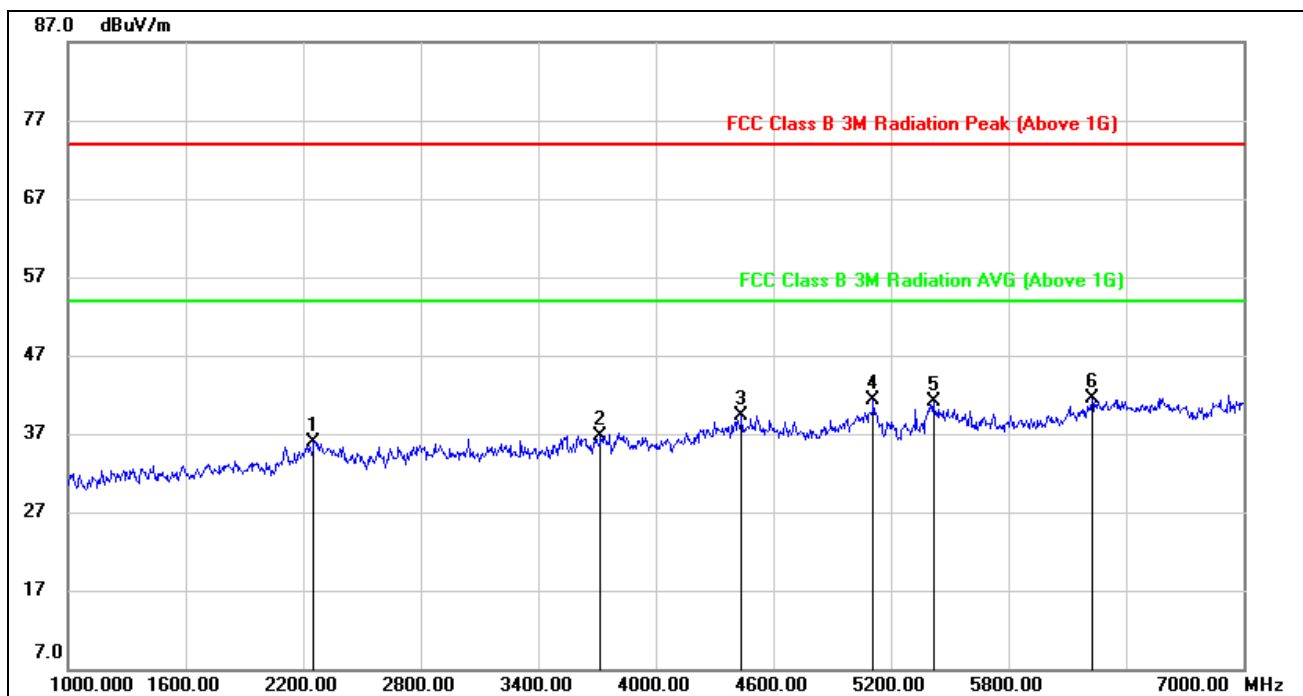


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8408.000	38.90	6.79	45.69	74.00	-28.31	peak
2	10520.000	36.38	11.94	48.32	74.00	-25.68	peak
3	11895.000	32.57	15.15	47.72	74.00	-26.28	peak
4	13864.000	32.04	18.58	50.62	74.00	-23.38	peak
5	15780.000	42.11	15.58	57.69	74.00	-16.31	peak
6	15780.000	26.55	15.58	42.13	54.00	-11.87	AVG
7	17769.000	28.80	23.83	52.63	74.00	-21.37	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



**VERTICAL RESULTS**  
**1-7GHz**

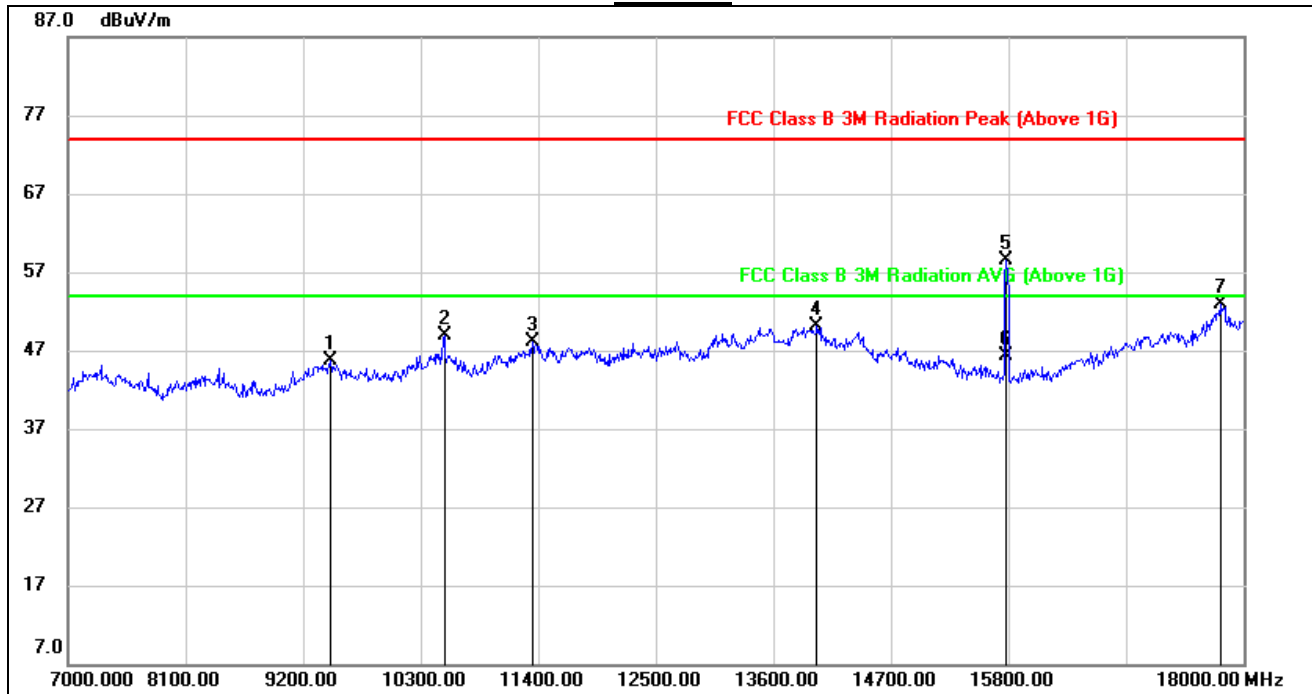


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2254.000	44.30	-8.35	35.95	74.00	-38.05	peak
2	3718.000	41.63	-4.96	36.67	74.00	-37.33	peak
3	4438.000	41.61	-2.33	39.28	74.00	-34.72	peak
4	5110.000	41.53	-0.24	41.29	74.00	-32.71	peak
5	5416.000	40.74	0.43	41.17	74.00	-32.83	peak
6	6226.000	38.55	2.98	41.53	74.00	-32.47	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### 7-18GHz



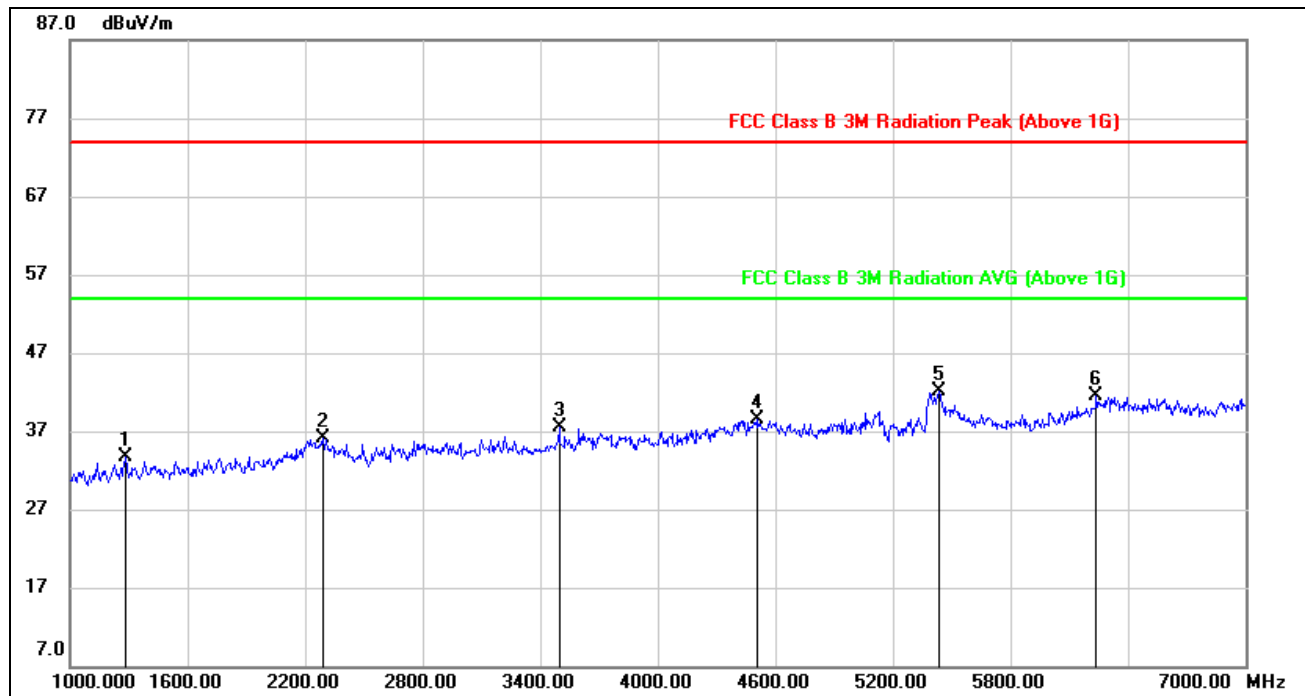
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9453.000	36.08	9.68	45.76	74.00	-28.24	peak
2	10520.000	36.88	11.96	48.84	74.00	-25.16	peak
3	11345.000	34.51	13.61	48.12	74.00	-25.88	peak
4	14007.000	31.47	18.54	50.01	74.00	-23.99	peak
5	15780.000	42.69	15.82	58.51	74.00	-15.49	peak
6	15780.000	30.50	15.82	46.32	54.00	-7.68	AVG
7	17780.000	28.56	24.38	52.94	74.00	-21.06	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



## HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL

### HORIZONTAL RESULTS 1-7GHz

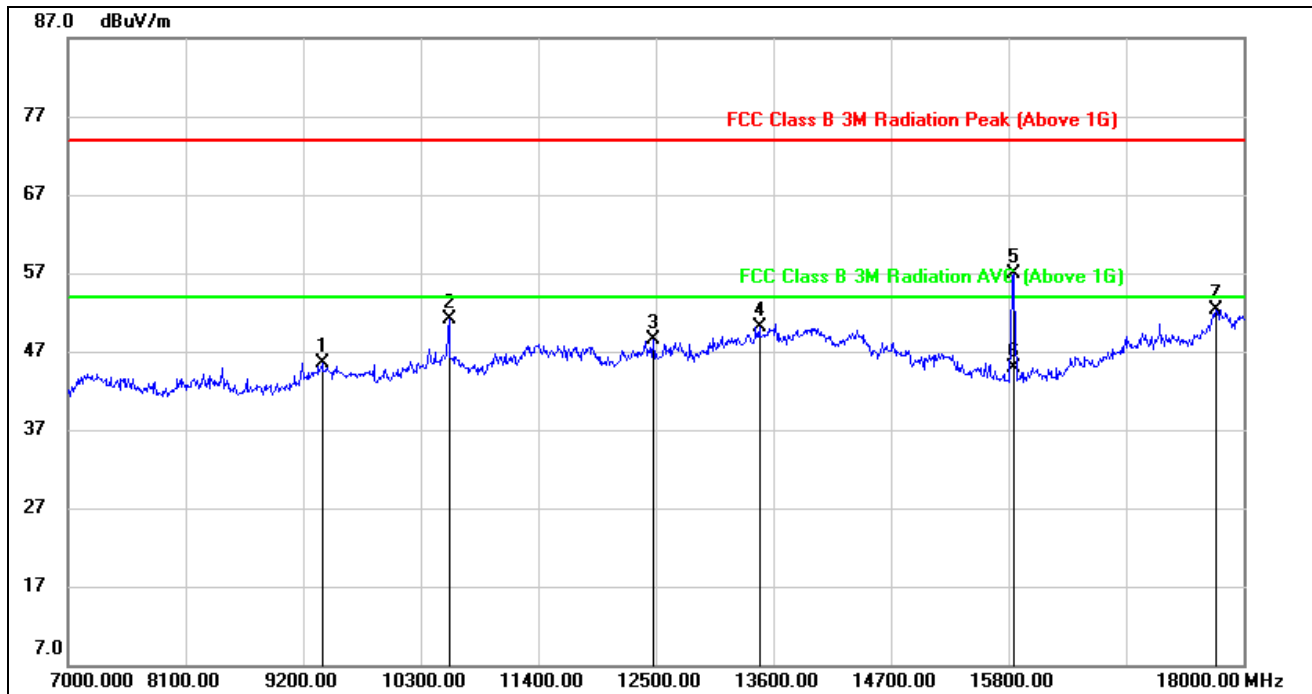


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1282.000	46.60	-12.84	33.76	74.00	-40.24	peak
2	2290.000	44.43	-8.36	36.07	74.00	-37.93	peak
3	3496.000	43.66	-6.08	37.58	74.00	-36.42	peak
4	4510.000	40.73	-2.24	38.49	74.00	-35.51	peak
5	5434.000	41.55	0.56	42.11	74.00	-31.89	peak
6	6238.000	38.57	2.96	41.53	74.00	-32.47	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### HORIZONTAL RESULTS 7-18GHz



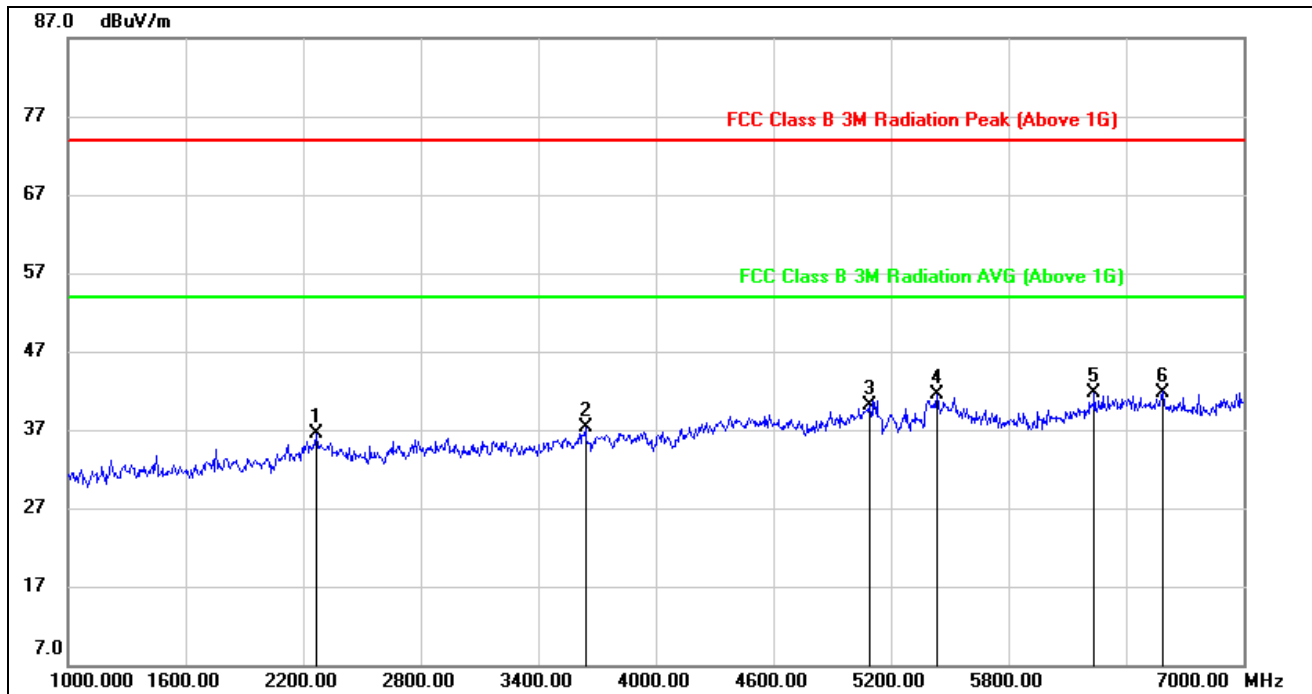
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9376.000	36.01	9.47	45.48	74.00	-28.52	peak
2	10564.000	39.18	11.91	51.09	74.00	-22.91	peak
3	12478.000	33.86	14.55	48.41	74.00	-25.59	peak
4	13468.000	31.94	18.09	50.03	74.00	-23.97	peak
5	15840.000	41.42	15.39	56.81	74.00	-17.19	peak
6	15840.000	29.57	15.39	44.96	54.00	-9.04	AVG
7	17747.000	28.76	23.57	52.33	74.00	-21.67	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.





**VERTICAL RESULTS**  
**1-7GHz**

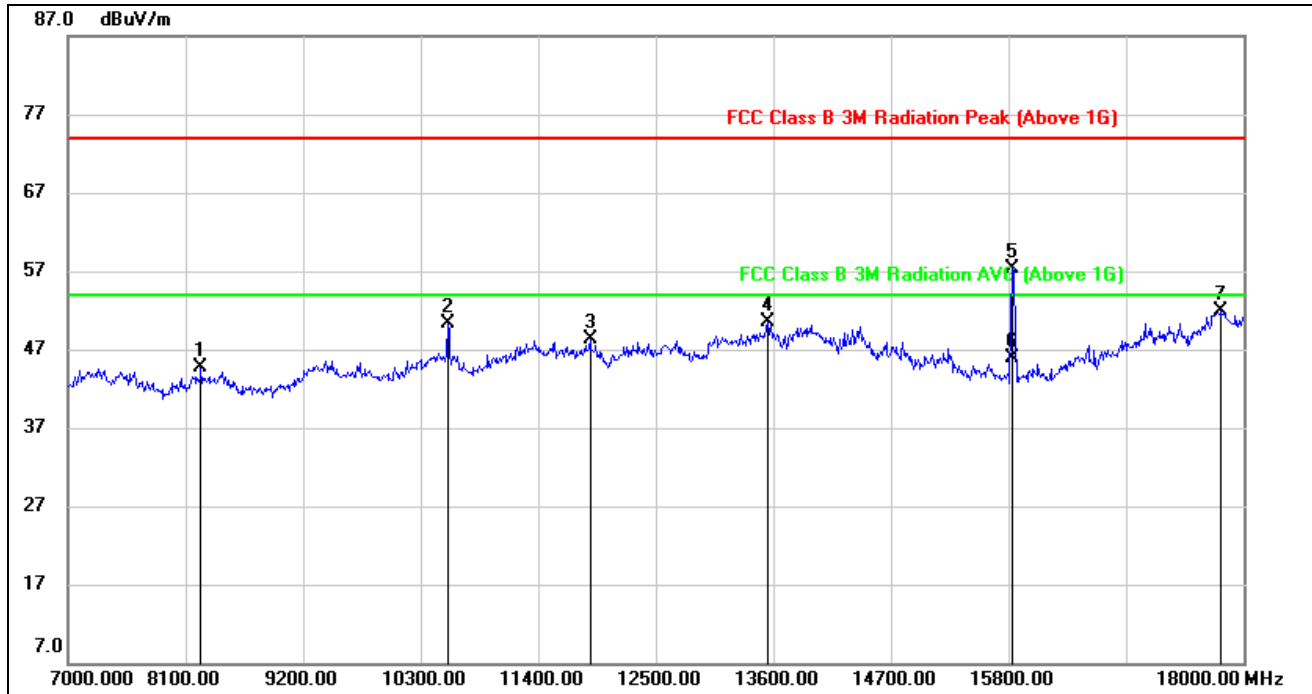


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2266.000	44.84	-8.31	36.53	74.00	-37.47	peak
2	3640.000	42.68	-5.34	37.34	74.00	-36.66	peak
3	5092.000	40.42	-0.33	40.09	74.00	-33.91	peak
4	5434.000	40.97	0.56	41.53	74.00	-32.47	peak
5	6238.000	38.74	3.04	41.78	74.00	-32.22	peak
6	6586.000	37.58	4.22	41.80	74.00	-32.20	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### 7-18GHz



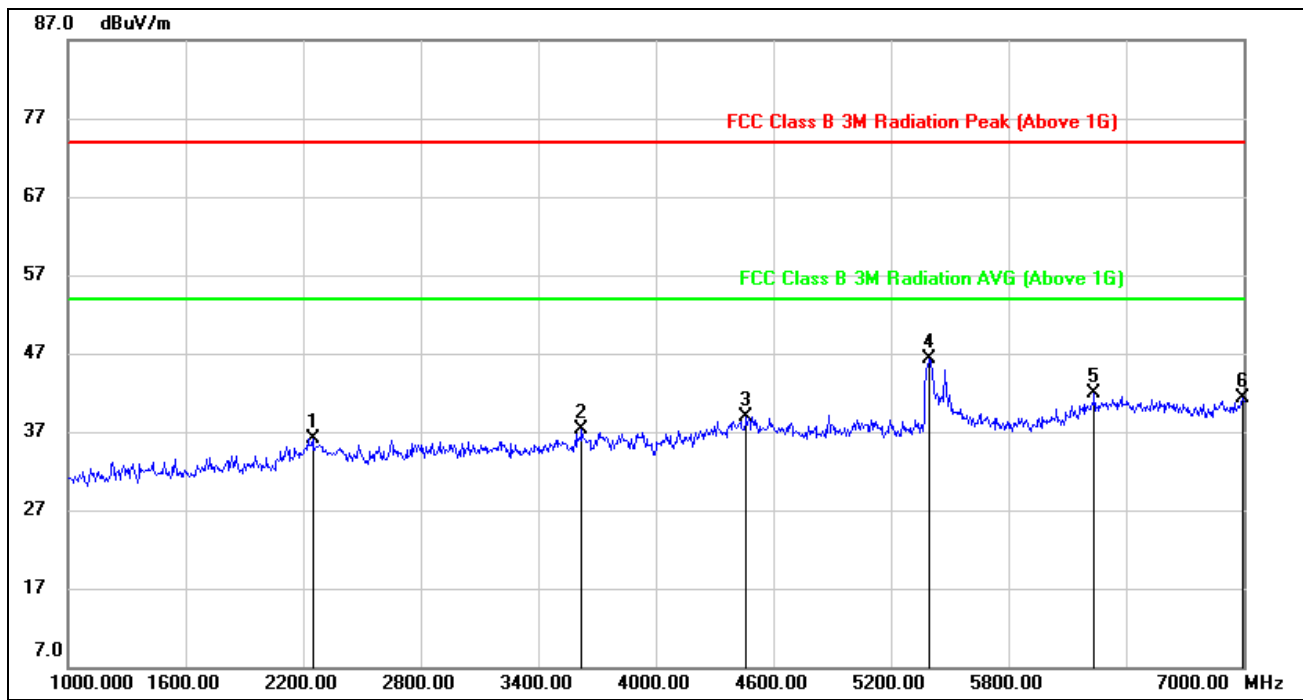
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8243.000	37.50	7.16	44.66	74.00	-29.34	peak
2	10553.000	38.32	11.89	50.21	74.00	-23.79	peak
3	11884.000	33.61	14.75	48.36	74.00	-25.64	peak
4	13545.000	31.68	18.86	50.54	74.00	-23.46	peak
5	15840.000	41.97	15.43	57.40	74.00	-16.60	peak
6	15840.000	30.39	15.43	45.82	54.00	-8.18	AVG
7	17791.000	27.34	24.52	51.86	74.00	-22.14	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



## HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL

### HORIZONTAL RESULTS 1-7GHz

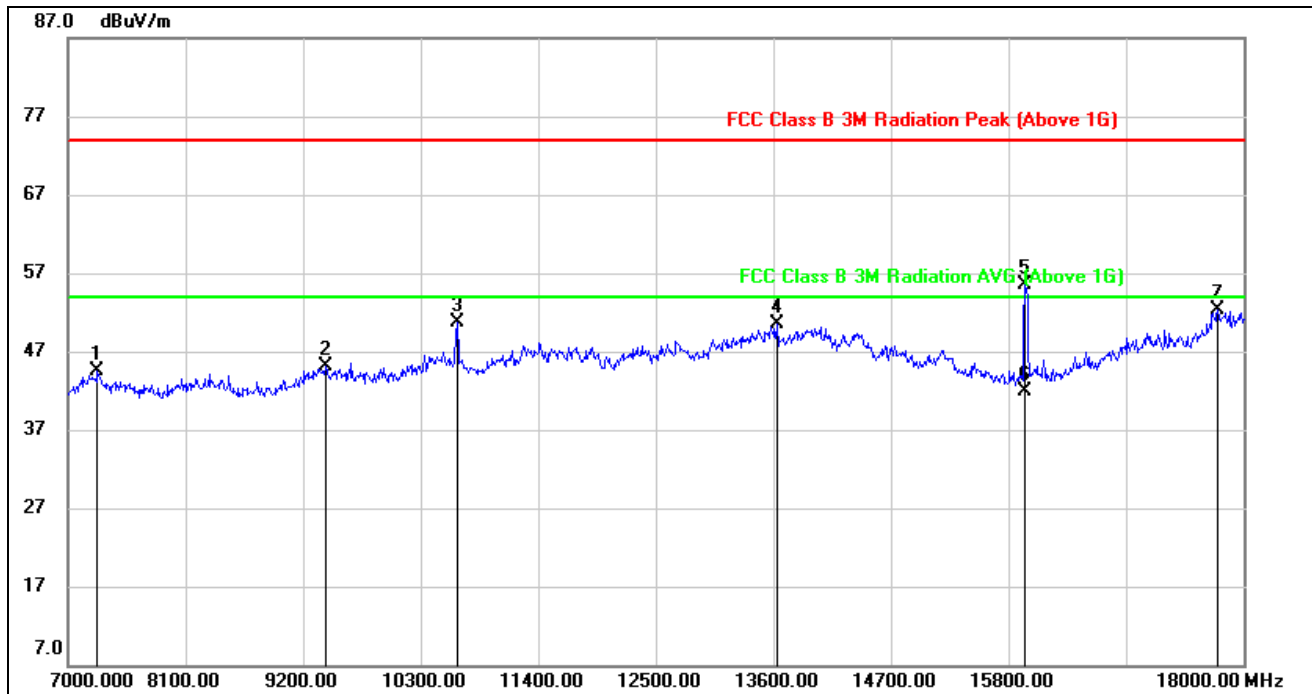


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2248.000	44.42	-8.40	36.02	74.00	-37.98	peak
2	3622.000	42.71	-5.50	37.21	74.00	-36.79	peak
3	4462.000	41.30	-2.36	38.94	74.00	-35.06	peak
4	5398.000	46.09	0.30	46.39	74.00	-27.61	peak
5	6238.000	38.88	2.96	41.84	74.00	-32.16	peak
6	6994.000	36.00	5.37	41.37	74.00	-32.63	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### HORIZONTAL RESULTS 7-18GHz

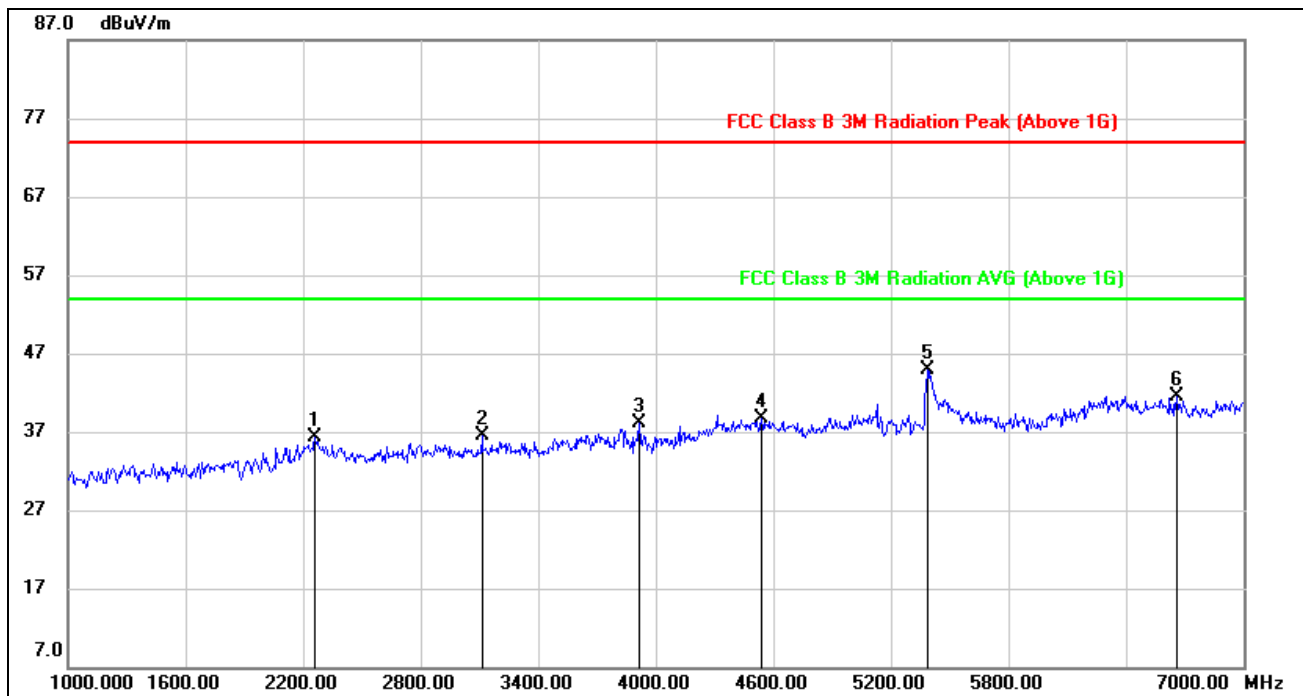


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7275.000	38.03	6.46	44.49	74.00	-29.51	peak
2	9409.000	35.62	9.53	45.15	74.00	-28.85	peak
3	10641.000	38.73	11.90	50.63	74.00	-23.37	peak
4	13633.000	32.14	18.43	50.57	74.00	-23.43	peak
5	15960.000	40.42	15.01	55.43	74.00	-18.57	peak
6	15960.000	26.87	15.01	41.88	54.00	-12.12	AVG
7	17758.000	28.59	23.68	52.27	74.00	-21.73	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



**VERTICAL RESULTS**  
**1-7GHz**

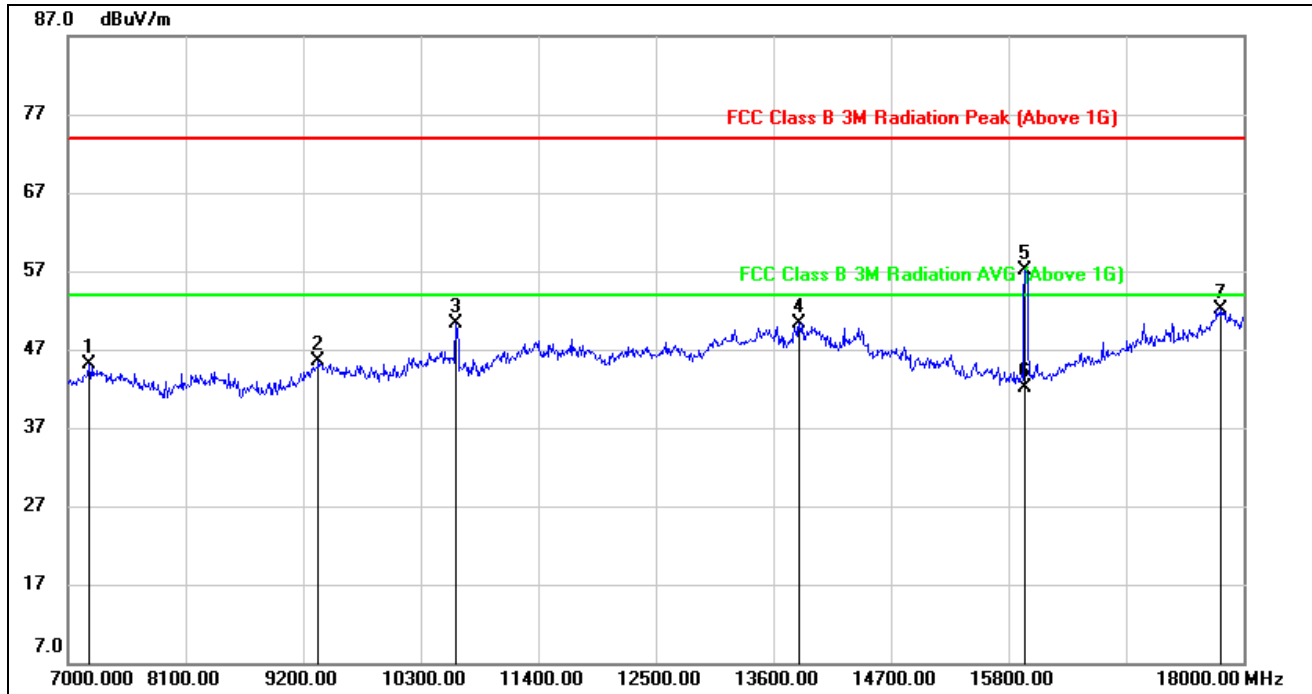


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2260.000	44.57	-8.33	36.24	74.00	-37.76	peak
2	3112.000	43.21	-6.80	36.41	74.00	-37.59	peak
3	3916.000	42.52	-4.48	38.04	74.00	-35.96	peak
4	4540.000	40.73	-2.08	38.65	74.00	-35.35	peak
5	5386.000	44.65	0.22	44.87	74.00	-29.13	peak
6	6658.000	37.20	4.34	41.54	74.00	-32.46	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### 7-18GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7198.000	38.66	6.44	45.10	74.00	-28.90	peak
2	9343.000	35.99	9.45	45.44	74.00	-28.56	peak
3	10630.000	38.19	12.06	50.25	74.00	-23.75	peak
4	13842.000	31.52	18.83	50.35	74.00	-23.65	peak
5	15960.000	41.97	15.19	57.16	74.00	-16.84	peak
6	15960.000	26.86	15.19	42.05	54.00	-11.95	AVG
7	17791.000	27.57	24.52	52.09	74.00	-21.91	peak

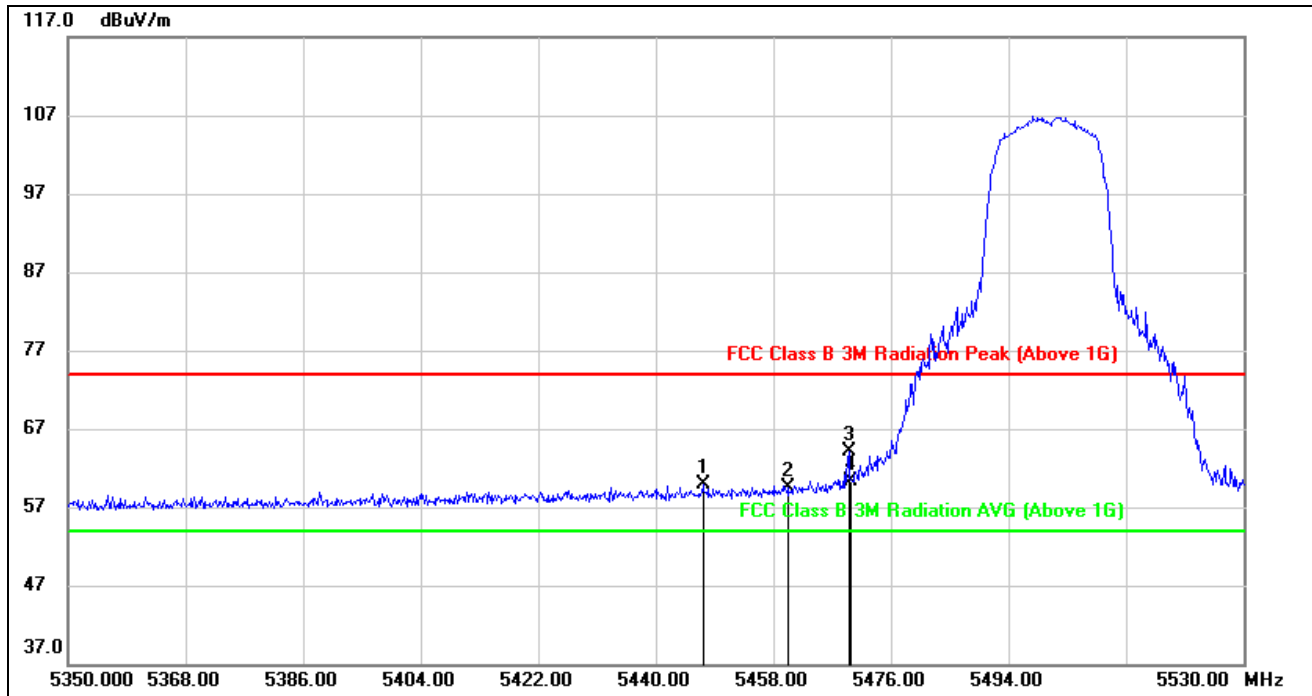
Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### 7.1.3. UNII-2C BAND

#### RESTRICTED BANDEDGE LOW CHANNEL

#### HORIZONTAL RESULTS PEAK

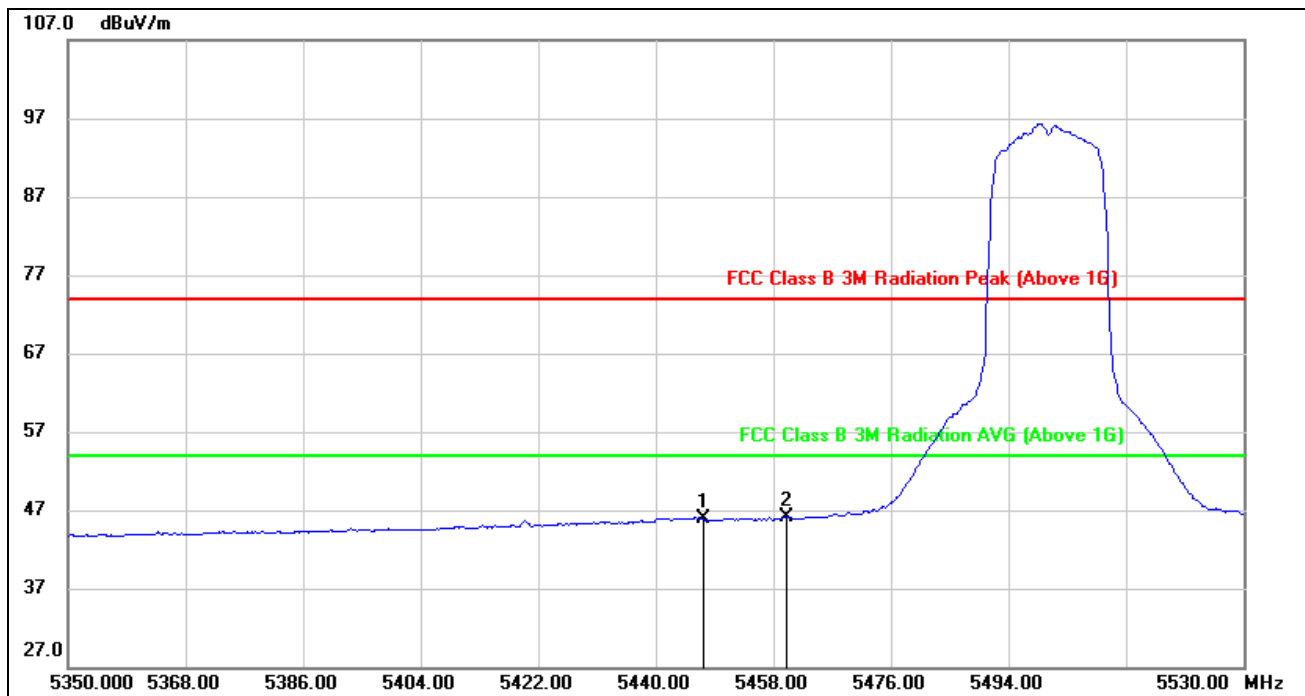


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5447.200	18.81	41.18	59.99	74.00	-14.01	peak
2	5460.000	18.24	41.26	59.50	74.00	-14.50	peak
3	5469.520	22.69	41.33	64.02	74.00	-9.98	peak
4	5470.000	18.97	41.33	60.30	74.00	-13.70	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4.\*indicates frequency out of the restricted bands  
5. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



**AVG**



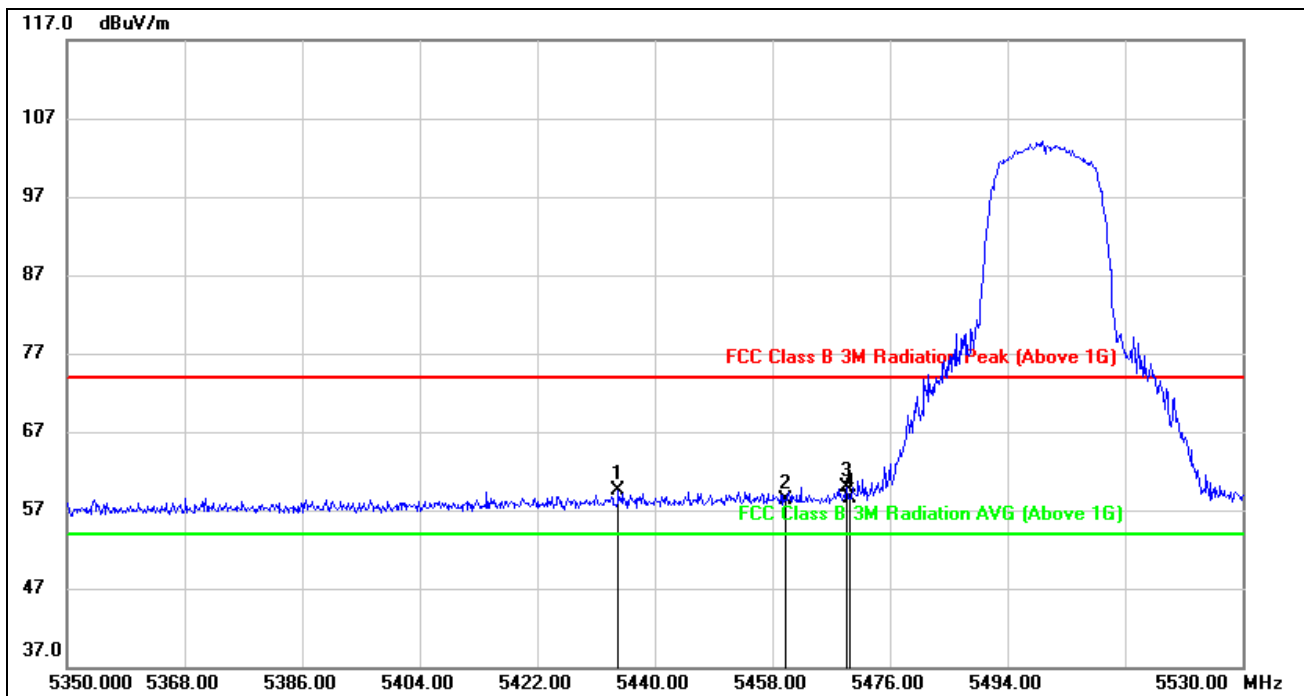
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5447.200	4.70	41.18	45.88	54.00	-8.12	AVG
2	5460.000	4.77	41.26	46.03	54.00	-7.97	AVG

Note: 1. Measurement = Reading Level + Correct Factor.  
2. AVG:  $VBW=1/Ton$  where: ton is transmit duration.  
3. For duty cycle, please refer to clause 6.1.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.





**VERTICAL RESULTS**  
**PEAK**

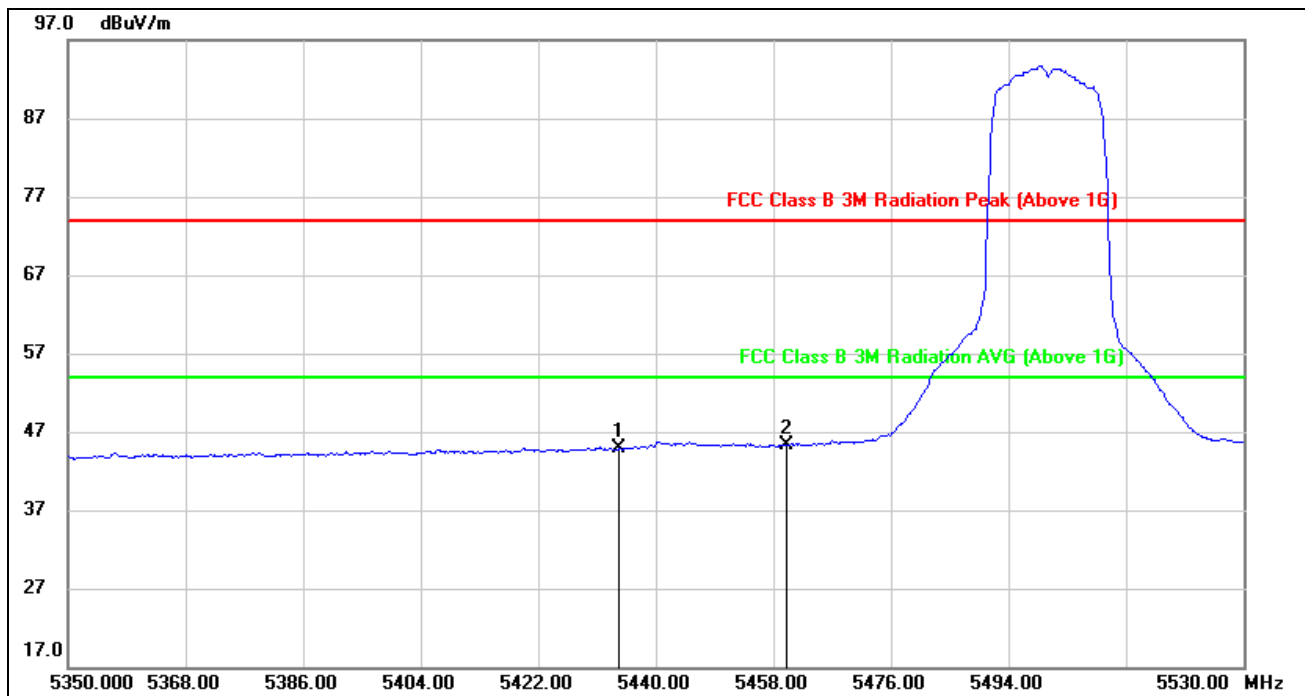


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5434.420	18.42	41.09	59.51	74.00	-14.49	peak
2	5460.000	16.97	41.26	58.23	74.00	-15.77	peak
3	5469.340	18.59	41.33	59.92	74.00	-14.08	peak
4	5470.000	17.13	41.33	58.46	74.00	-15.54	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4.\*indicates frequency out of the restricted bands  
5. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



**AVG**



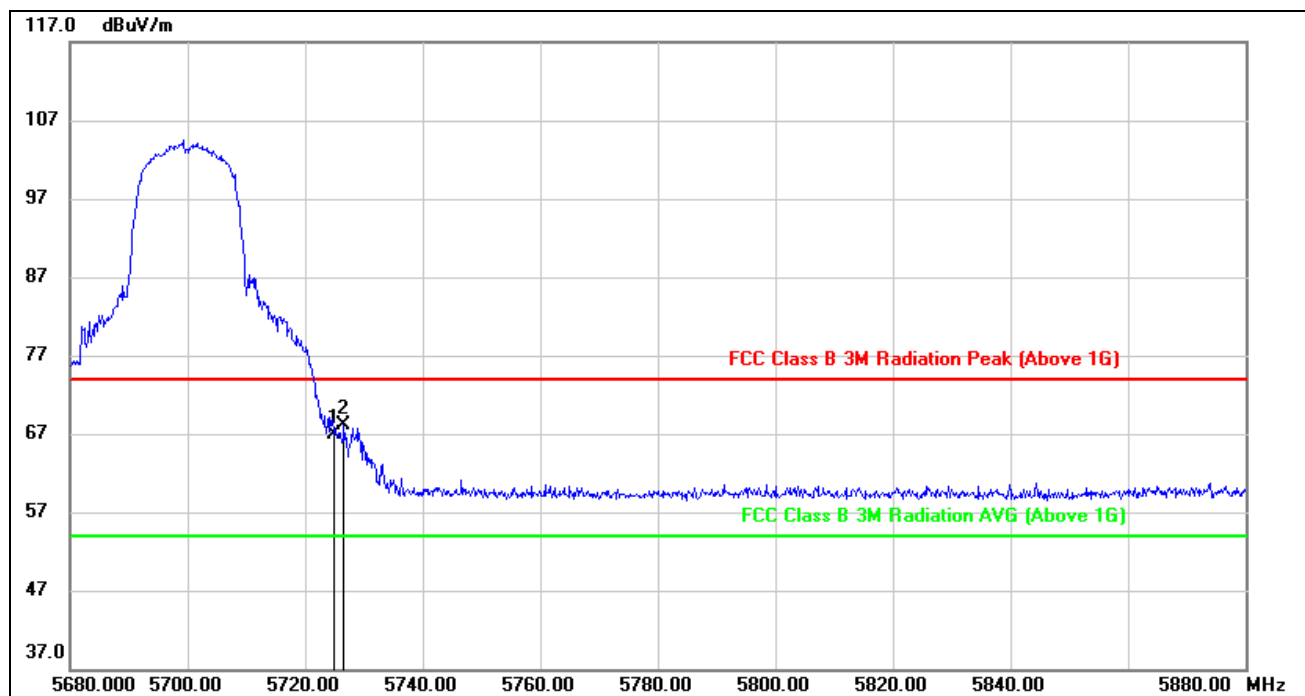
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5434.420	3.78	41.09	44.87	54.00	-9.13	AVG
2	5460.000	3.99	41.26	45.25	54.00	-8.75	AVG

Note: 1. Measurement = Reading Level + Correct Factor.  
2. AVG:  $VBW=1/Ton$  where: ton is transmit duration.  
3. For duty cycle, please refer to clause 6.1.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



## RESTRICTED BANDEDGE HIGH CHANNEL

### HORIZONTAL RESULTS



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	25.46	41.39	66.85	68.30	-1.45	peak
2	5726.600	26.67	41.39	68.06	68.30	-0.24	peak

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

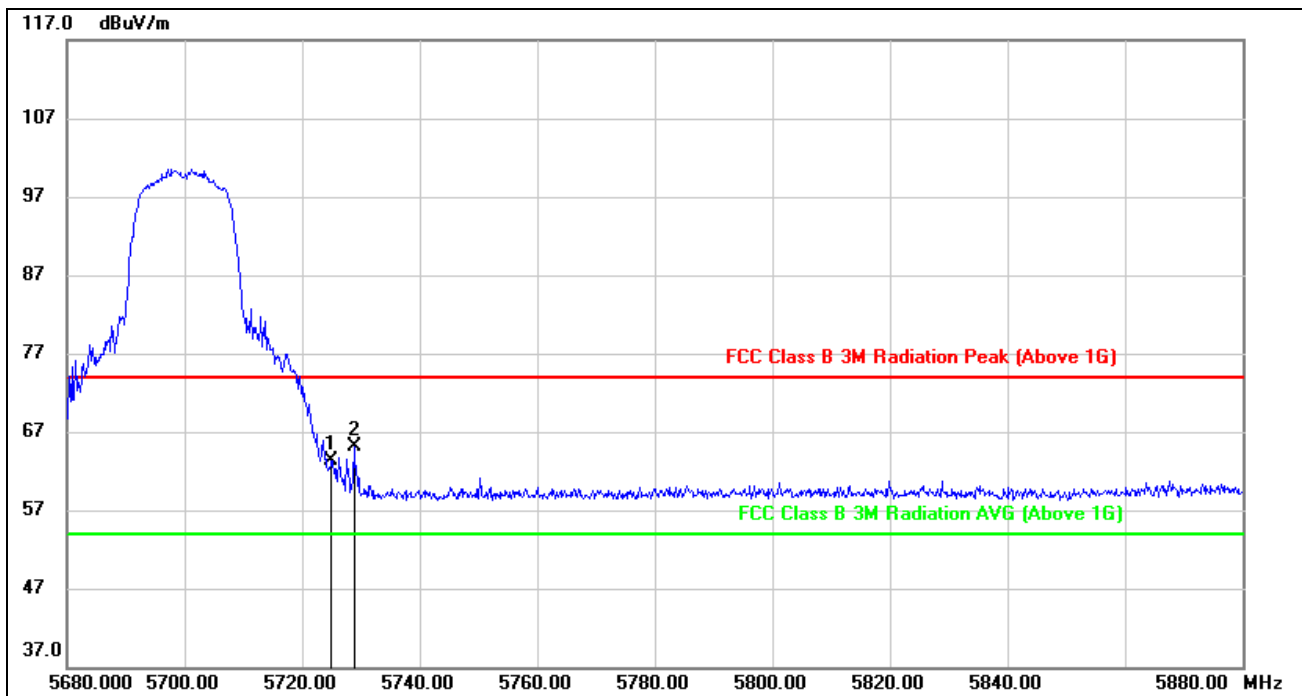
3. Peak: Peak detector.

4. The chart shows Limits 74dBuV for Peak, 54dBuV for AVG, but Unwanted Emissions that fall Outside of the Restricted Bands is 68.3dBuV for Peak, No limit for AVG. All test results are in compliance with the limits.

5. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



### VERTICAL RESULTS



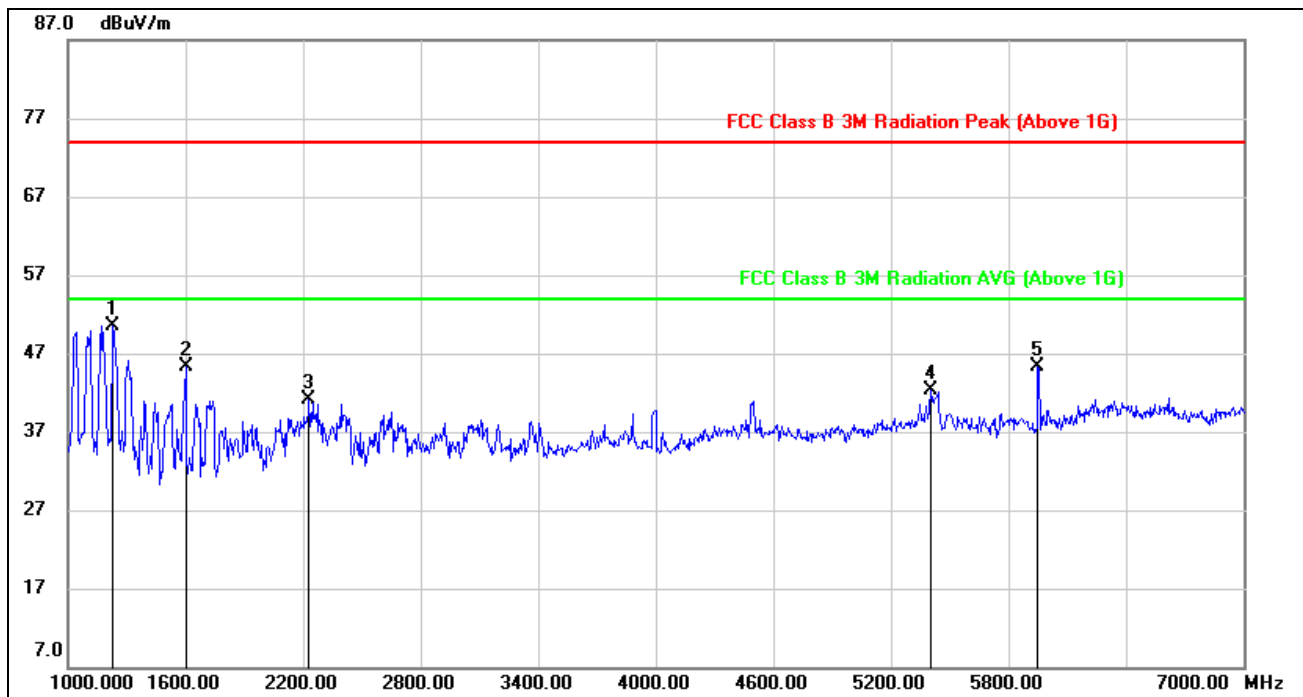
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	21.85	41.49	63.34	68.30	-4.96	peak
2	5728.800	23.52	41.50	65.02	68.30	-3.28	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. The chart shows Limits 74dBuV for Peak, 54dBuV for AVG, but Unwanted Emissions that fall Outside of the Restricted Bands is 68.3dBuV for Peak, No limit for AVG. All test results are in compliance with the limits.  
5. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



## HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL

### HORIZONTAL RESULTS 1-7GHz

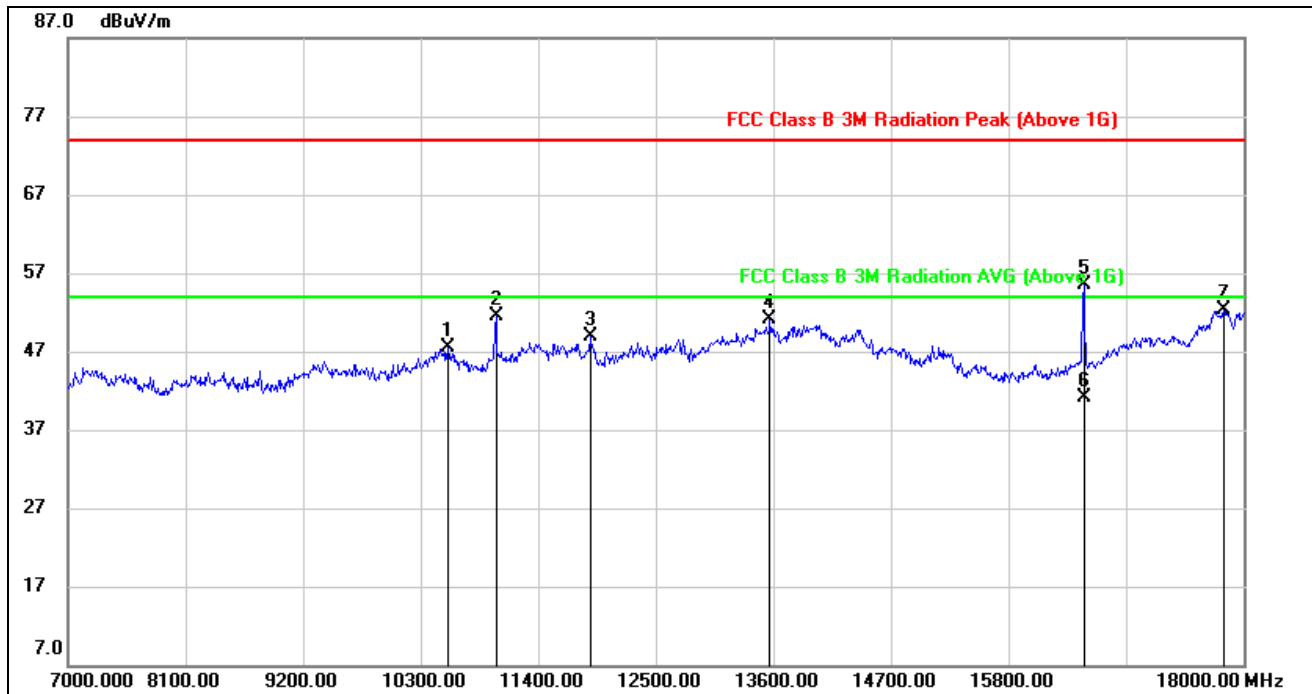


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1228.000	63.69	-13.26	50.43	74.00	-23.57	peak
2	1600.000	57.91	-12.65	45.26	74.00	-28.74	peak
3	2230.000	49.65	-8.57	41.08	74.00	-32.92	peak
4	5404.000	41.89	0.35	42.24	74.00	-31.76	peak
5	5950.000	43.66	1.68	45.34	74.00	-28.66	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### HORIZONTAL RESULTS 7-18GHz

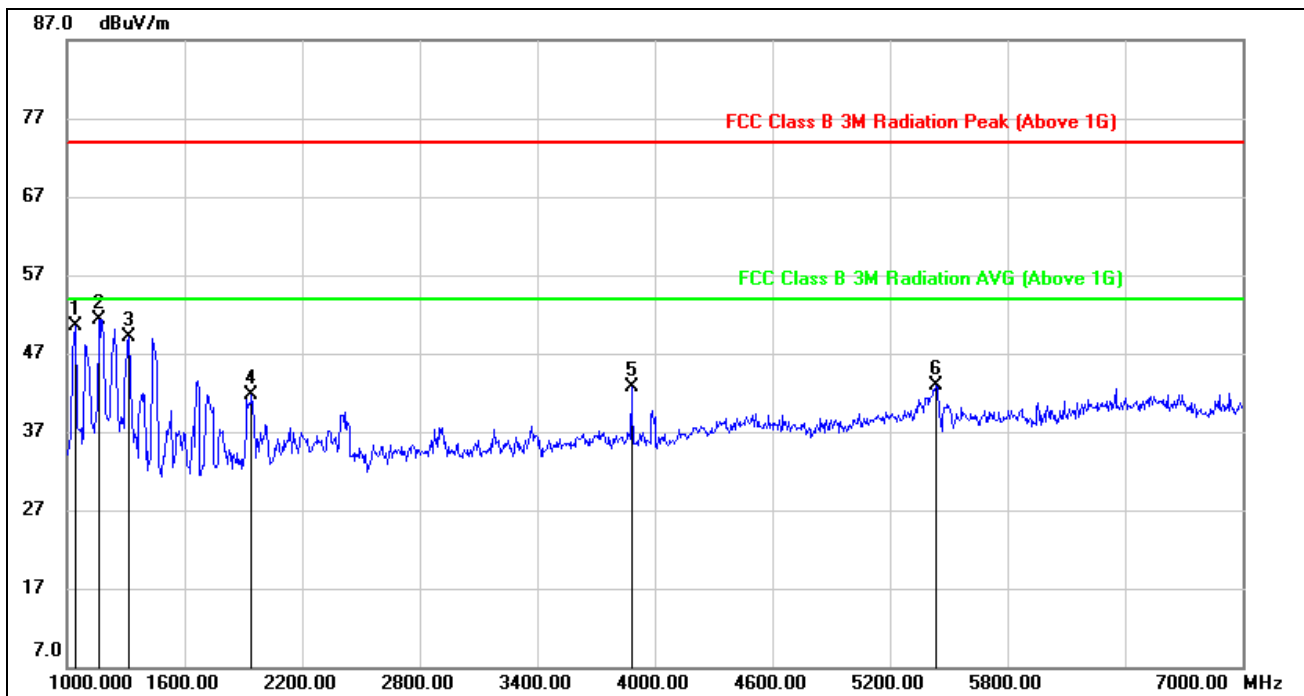


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10553.000	35.48	11.97	47.45	74.00	-26.55	peak
2	11004.000	38.54	12.91	51.45	74.00	-22.55	peak
3	11884.000	33.92	14.93	48.85	74.00	-25.15	peak
4	13567.000	32.67	18.38	51.05	74.00	-22.95	peak
5	16500.084	38.02	17.39	55.41	74.00	-18.59	peak
6	16500.084	23.71	17.39	41.10	54.00	-12.90	AVG
7	17813.000	27.98	24.25	52.23	74.00	-21.77	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



**VERTICAL RESULTS**  
**1-7GHz**

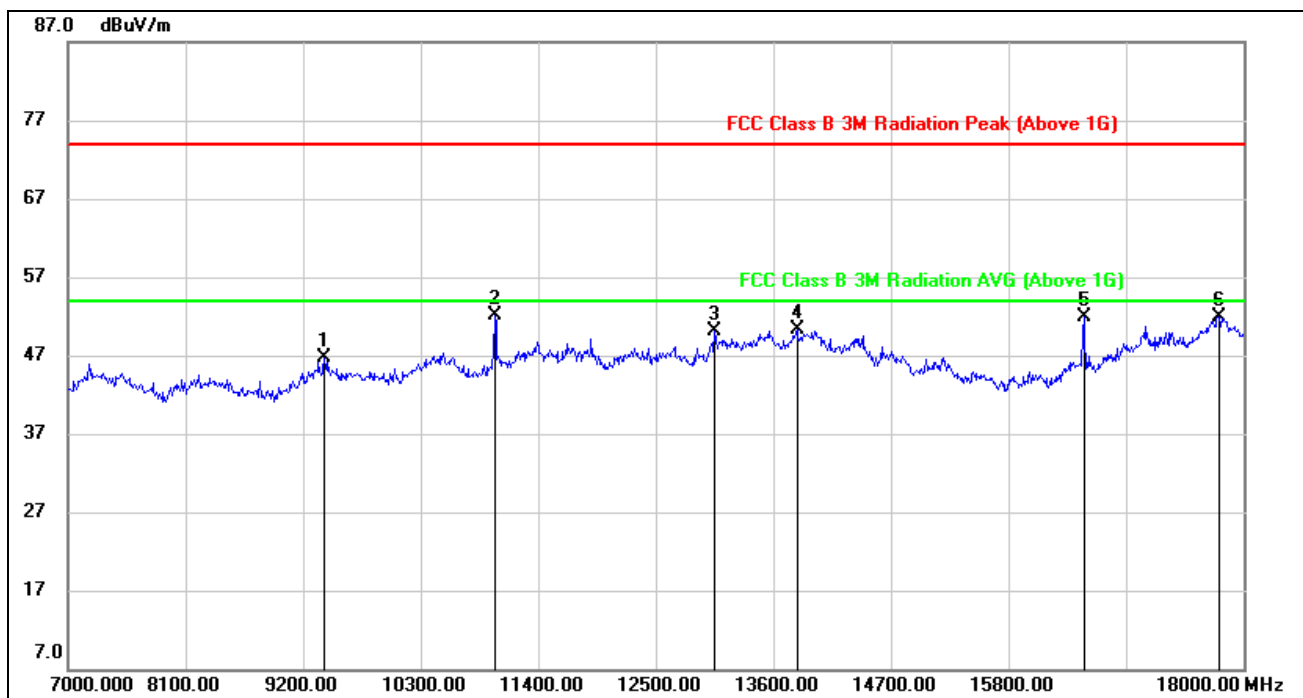


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1042.000	64.80	-14.36	50.44	74.00	-23.56	peak
2	1162.000	65.11	-13.81	51.30	74.00	-22.70	peak
3	1312.000	62.10	-12.91	49.19	74.00	-24.81	peak
4	1942.000	53.06	-11.45	41.61	74.00	-32.39	peak
5	3880.000	47.28	-4.49	42.79	74.00	-31.21	peak
6	5434.000	42.26	0.56	42.82	74.00	-31.18	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### 7-18GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9398.000	37.19	9.55	46.74	74.00	-27.26	peak
2	10993.000	39.35	12.78	52.13	74.00	-21.87	peak
3	13050.000	33.50	16.56	50.06	74.00	-23.94	peak
4	13820.000	31.31	18.94	50.25	74.00	-23.75	peak
5	16504.000	34.35	17.60	51.95	74.00	-22.05	peak
6	17769.000	27.76	24.23	51.99	74.00	-22.01	peak

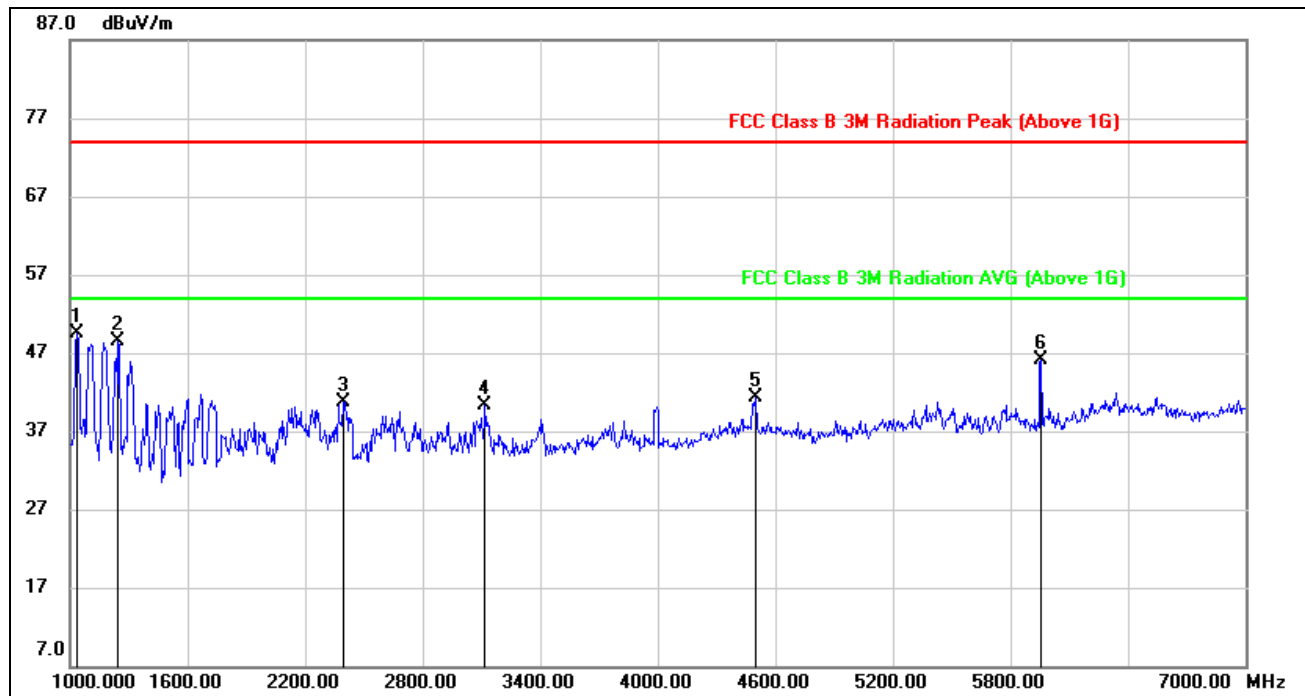
Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.





## HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL

### HORIZONTAL RESULTS 1-7GHz

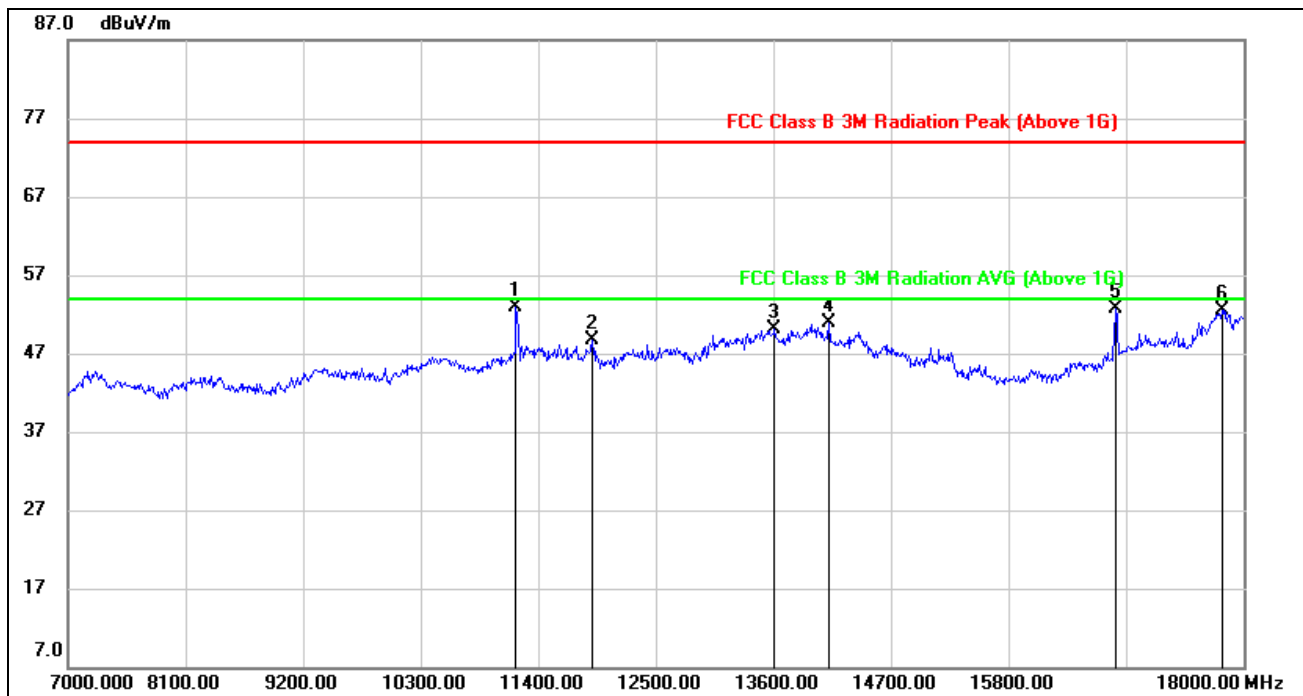


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1036.000	63.63	-14.21	49.42	74.00	-24.58	peak
2	1246.000	61.62	-13.16	48.46	74.00	-25.54	peak
3	2392.000	49.73	-8.98	40.75	74.00	-33.25	peak
4	3118.000	47.10	-6.81	40.29	74.00	-33.71	peak
5	4498.000	43.53	-2.26	41.27	74.00	-32.73	peak
6	5956.000	44.39	1.72	46.11	74.00	-27.89	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### HORIZONTAL RESULTS 7-18GHz

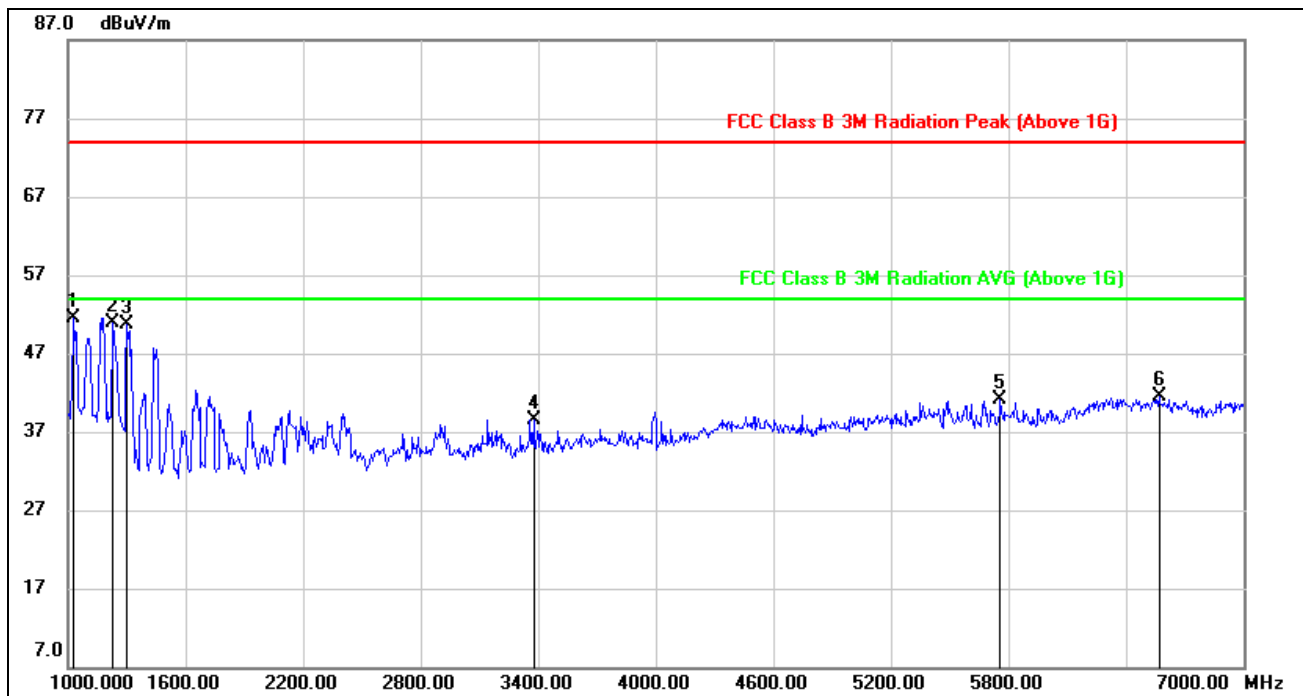


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11191.000	40.03	12.92	52.95	74.00	-21.05	peak
2	11906.000	33.45	15.16	48.61	74.00	-25.39	peak
3	13611.000	31.57	18.50	50.07	74.00	-23.93	peak
4	14117.000	32.51	18.43	50.94	74.00	-23.06	peak
5	16801.000	34.66	18.09	52.75	74.00	-21.25	peak
6	17802.000	28.29	24.24	52.53	74.00	-21.47	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. AVG: VBW=1/Ton where: ton is transmit duration.  
5. For duty cycle, please refer to clause 6.1.  
6. Owing to the highest peak level complies with the lowest limit of unwanted emission out of the restricted bands (Please refer to page 63), so all the test point were deemed to comply with the limits list in the standard.



**VERTICAL RESULTS**  
**1-7GHz**

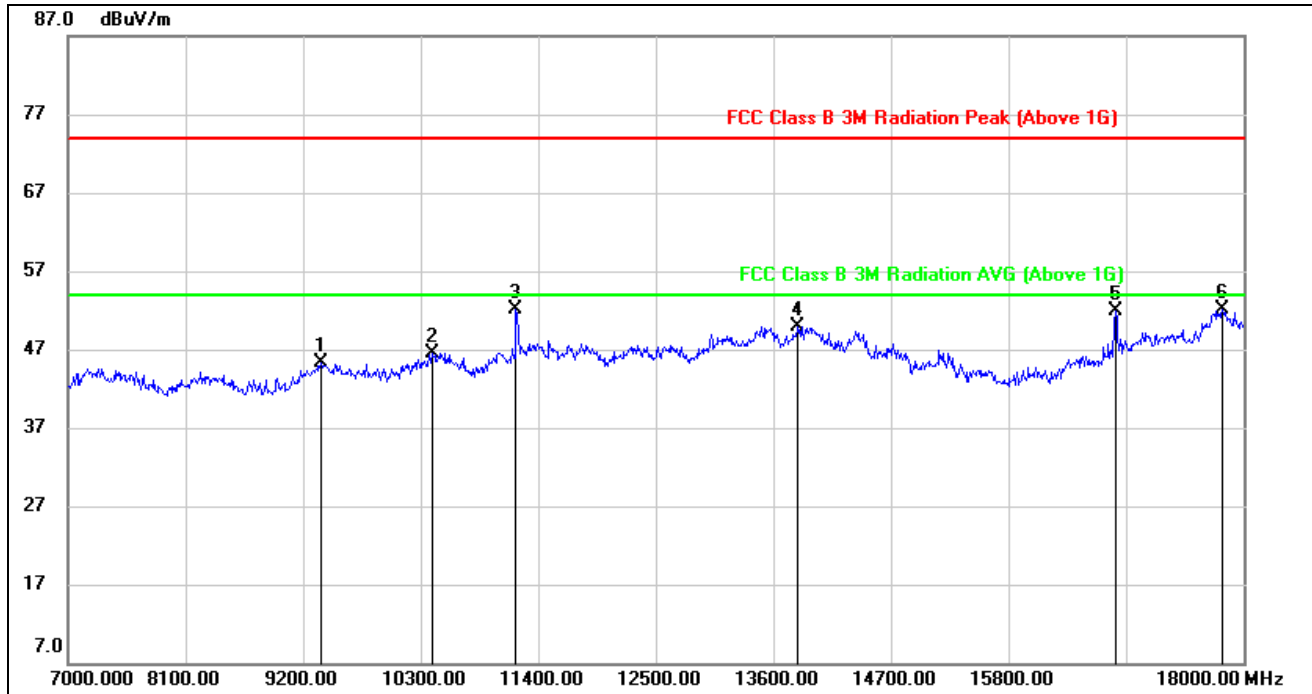


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1030.000	65.86	-14.39	51.47	74.00	-22.53	peak
2	1228.000	64.14	-13.25	50.89	74.00	-23.11	peak
3	1300.000	63.60	-12.97	50.63	74.00	-23.37	peak
4	3376.000	45.14	-6.62	38.52	74.00	-35.48	peak
5	5758.000	39.92	1.20	41.12	74.00	-32.88	peak
6	6568.000	37.44	4.05	41.49	74.00	-32.51	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### 7-18GHz



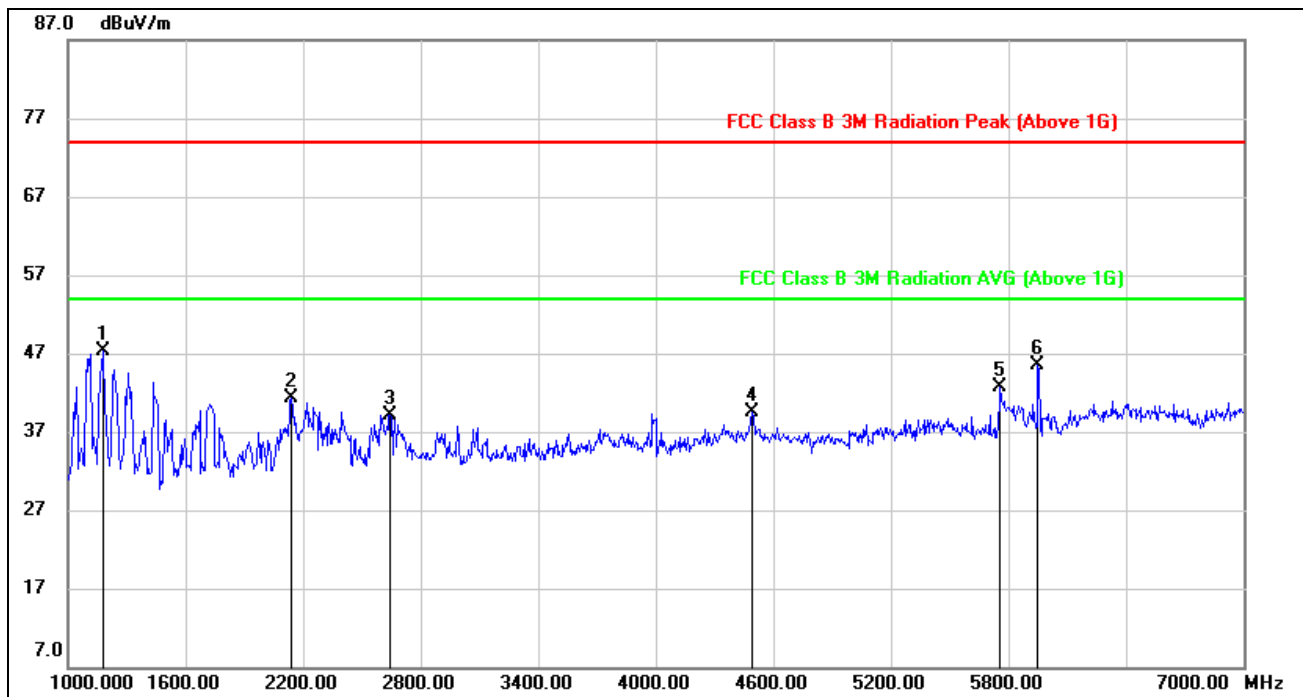
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9365.000	35.84	9.51	45.35	74.00	-28.65	peak
2	10410.000	34.92	11.56	46.48	74.00	-27.52	peak
3	11191.000	38.60	13.46	52.06	74.00	-21.94	peak
4	13831.000	31.07	18.89	49.96	74.00	-24.04	peak
5	16801.000	33.48	18.49	51.97	74.00	-22.03	peak
6	17802.000	27.47	24.61	52.08	74.00	-21.92	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



## HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL

### HORIZONTAL RESULTS 1-7GHz

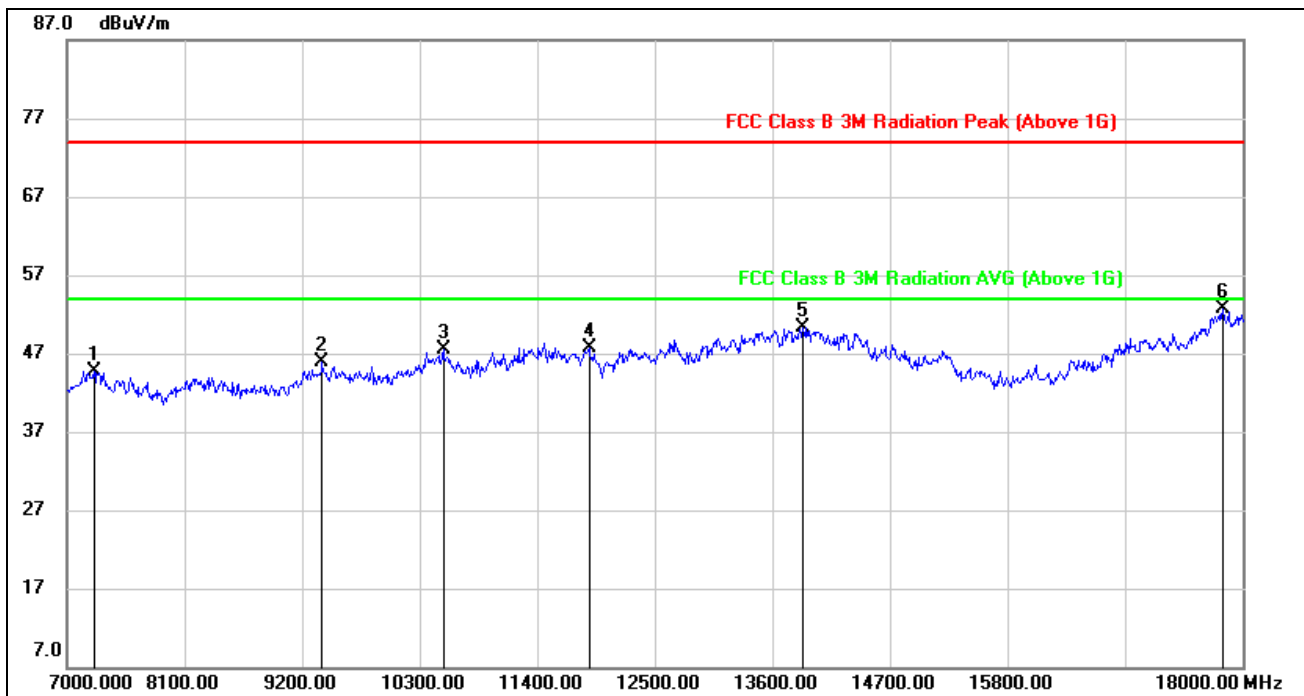


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1180.000	60.91	-13.53	47.38	74.00	-26.62	peak
2	2140.000	50.92	-9.68	41.24	74.00	-32.76	peak
3	2644.000	47.67	-8.61	39.06	74.00	-34.94	peak
4	4492.000	41.77	-2.28	39.49	74.00	-34.51	peak
5	5758.000	41.57	1.10	42.67	74.00	-31.33	peak
6	5950.000	43.89	1.68	45.57	74.00	-28.43	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### HORIZONTAL RESULTS 7-18GHz

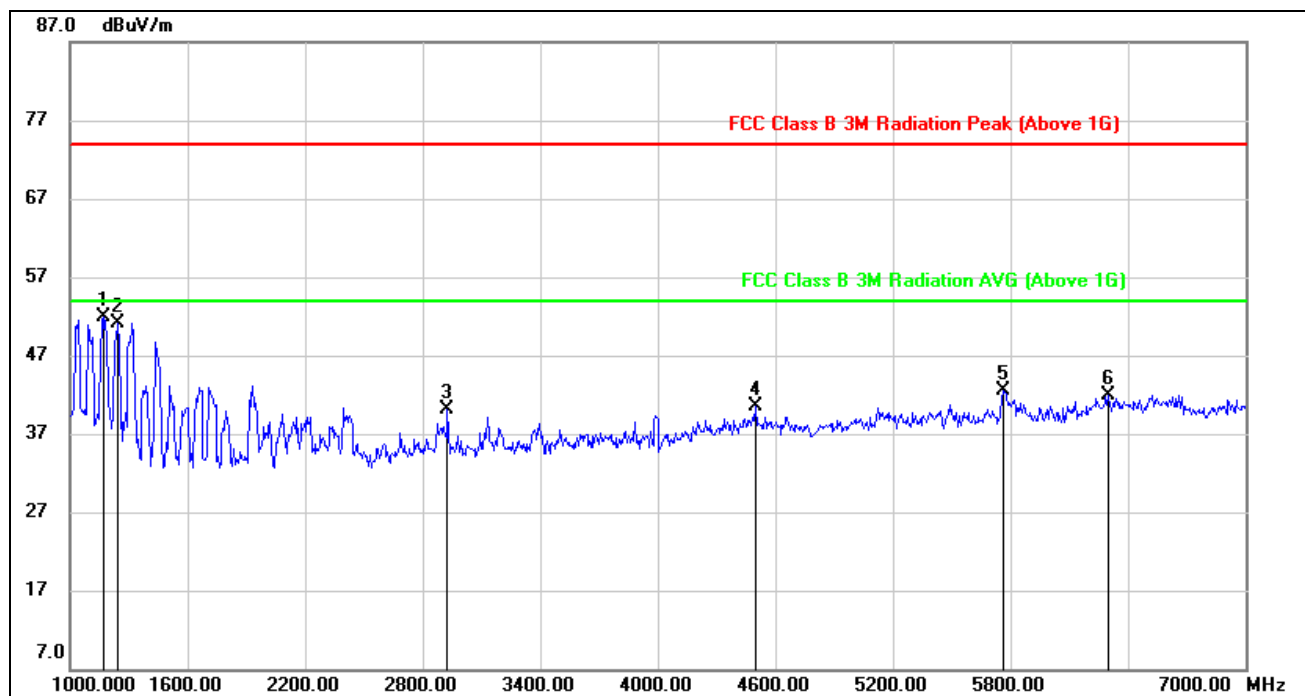


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7253.000	38.19	6.45	44.64	74.00	-29.36	peak
2	9387.000	36.48	9.51	45.99	74.00	-28.01	peak
3	10520.000	35.53	11.94	47.47	74.00	-26.53	peak
4	11884.000	32.77	14.93	47.70	74.00	-26.30	peak
5	13886.000	31.76	18.56	50.32	74.00	-23.68	peak
6	17813.000	28.48	24.25	52.73	74.00	-21.27	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



**VERTICAL RESULTS**  
**1-7GHz**

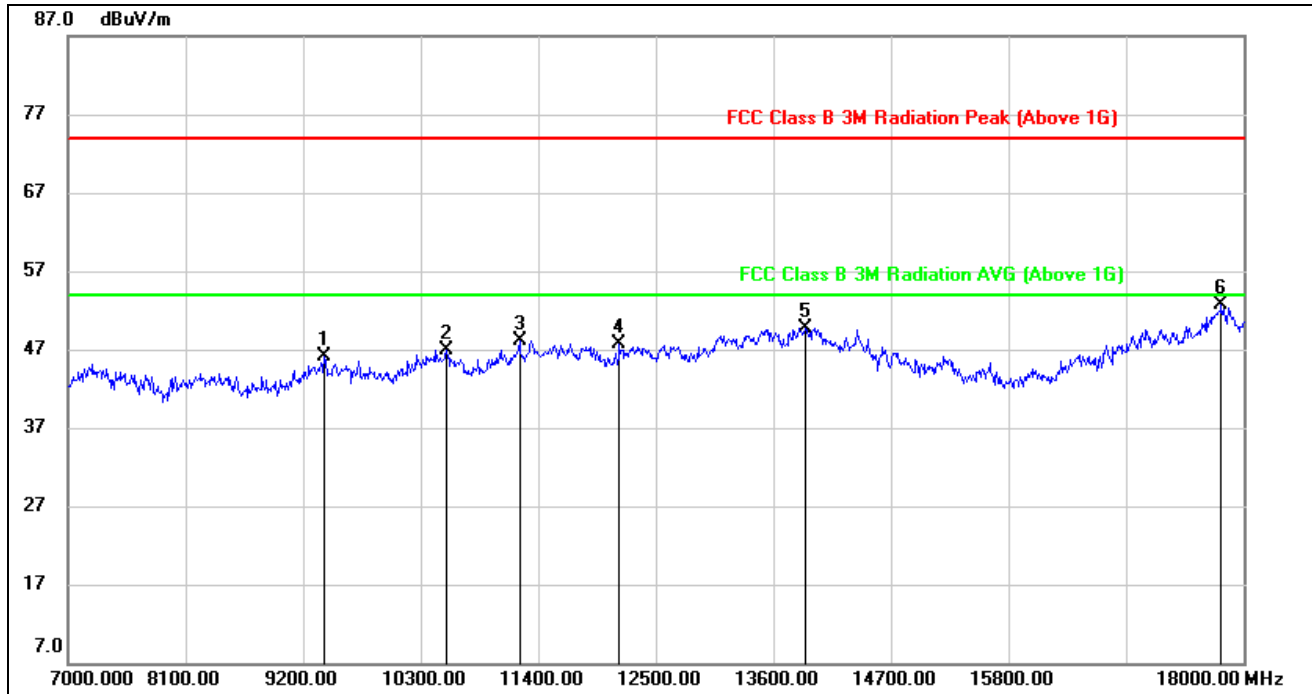


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1168.000	65.72	-13.76	51.96	74.00	-22.04	peak
2	1240.000	64.29	-13.13	51.16	74.00	-22.84	peak
3	2926.000	47.37	-7.29	40.08	74.00	-33.92	peak
4	4498.000	42.71	-2.16	40.55	74.00	-33.45	peak
5	5764.000	41.32	1.24	42.56	74.00	-31.44	peak
6	6298.000	38.71	3.24	41.95	74.00	-32.05	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### 7-18GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9398.000	36.48	9.55	46.03	74.00	-27.97	peak
2	10542.000	34.93	11.90	46.83	74.00	-27.17	peak
3	11224.000	34.55	13.52	48.07	74.00	-25.93	peak
4	12159.000	33.21	14.44	47.65	74.00	-26.35	peak
5	13897.000	30.95	18.74	49.69	74.00	-24.31	peak
6	17791.000	28.20	24.52	52.72	74.00	-21.28	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.

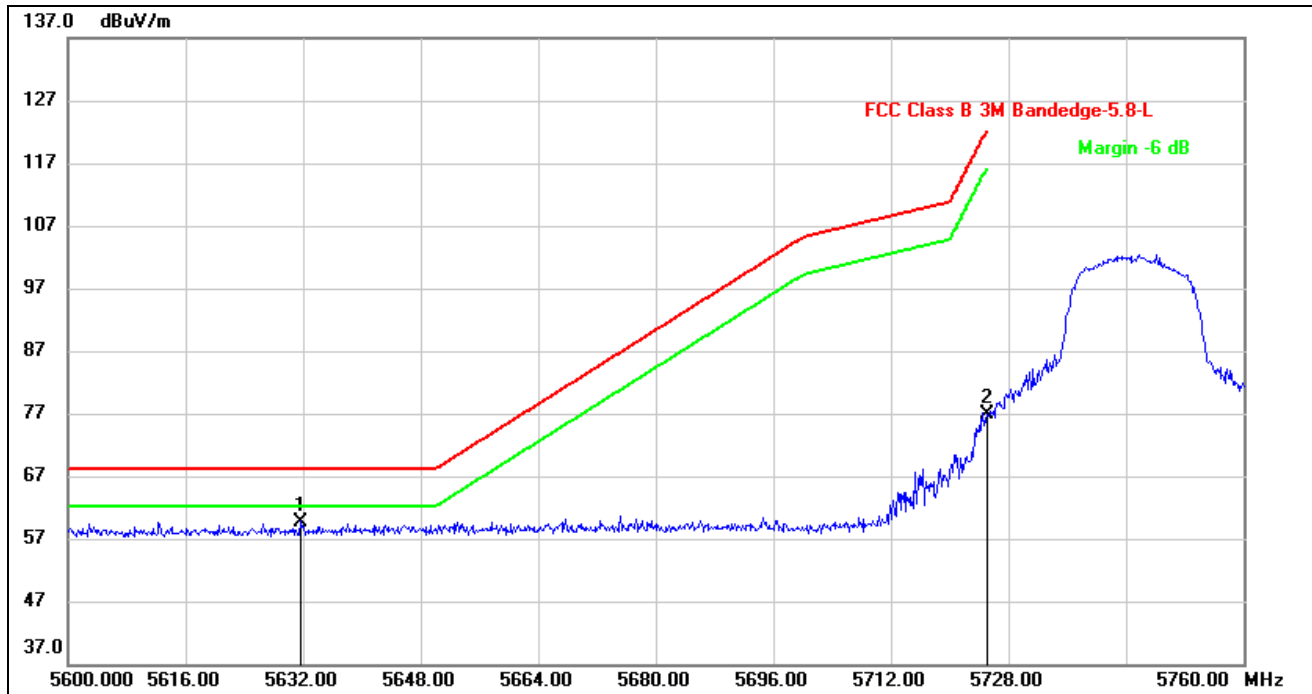




#### 7.1.4. UNII-3 BAND

#### RESTRICTED BANDEDGE LOW CHANNEL

#### HORIZONTAL RESULTS

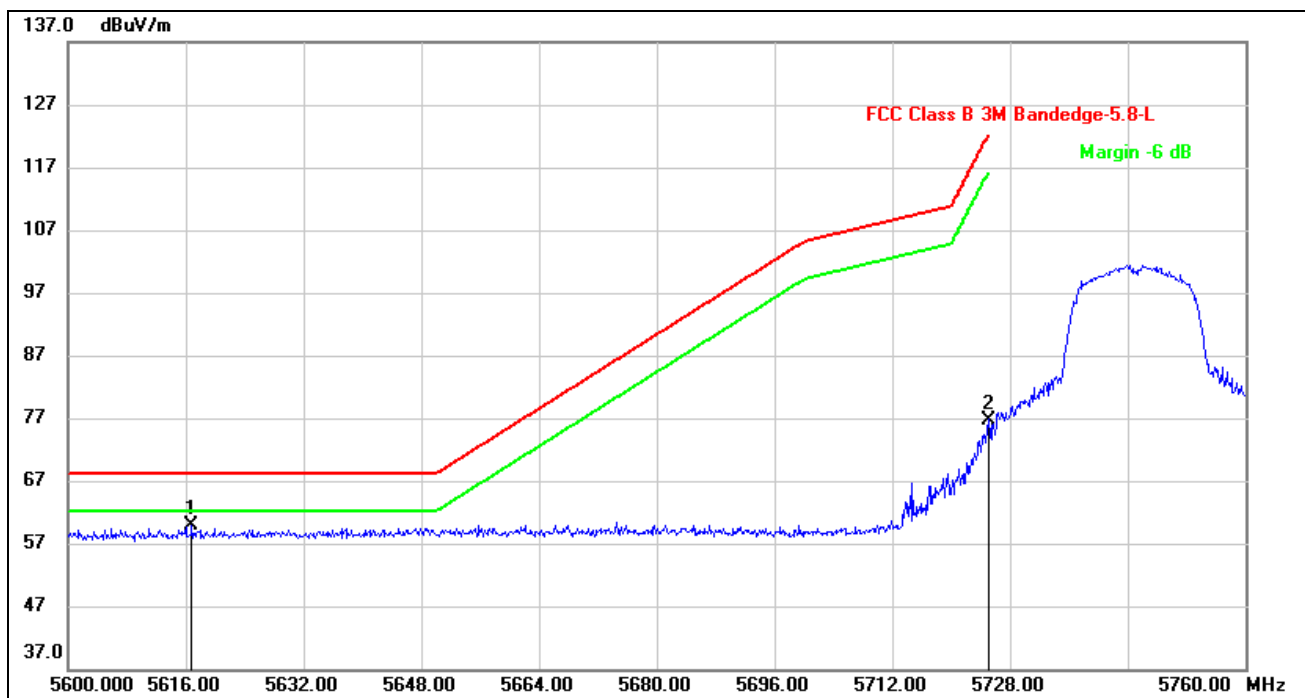


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5631.680	18.58	41.17	59.75	68.20	-8.45	peak
2	5725.000	35.46	41.39	76.85	122.20	-45.35	peak

Note: 1. Measurement = Reading Level + Correct Factor.



### VERTICAL RESULTS



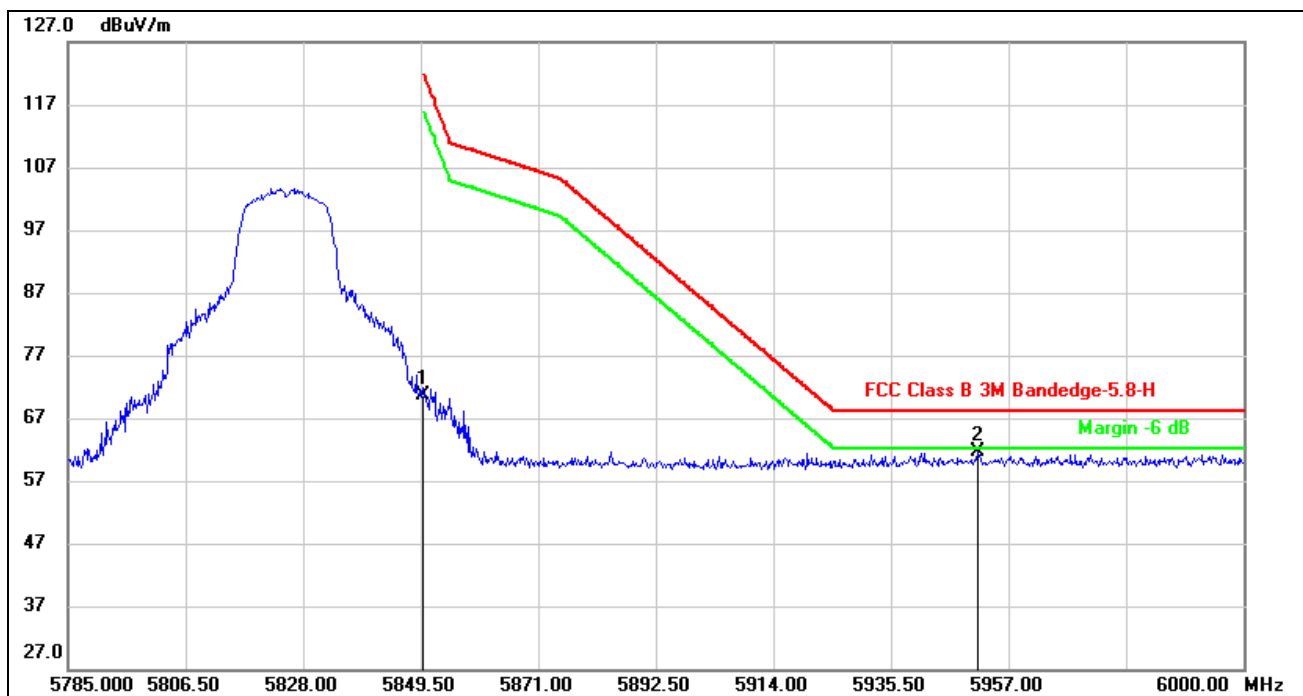
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5616.800	18.71	41.19	59.90	68.20	-8.30	peak
2	5725.000	35.26	41.49	76.75	122.20	-45.45	peak

Note: 1. Measurement = Reading Level + Correct Factor.



## RESTRICTED BANDEDGE HIGH CHANNEL

### HORIZONTAL RESULTS

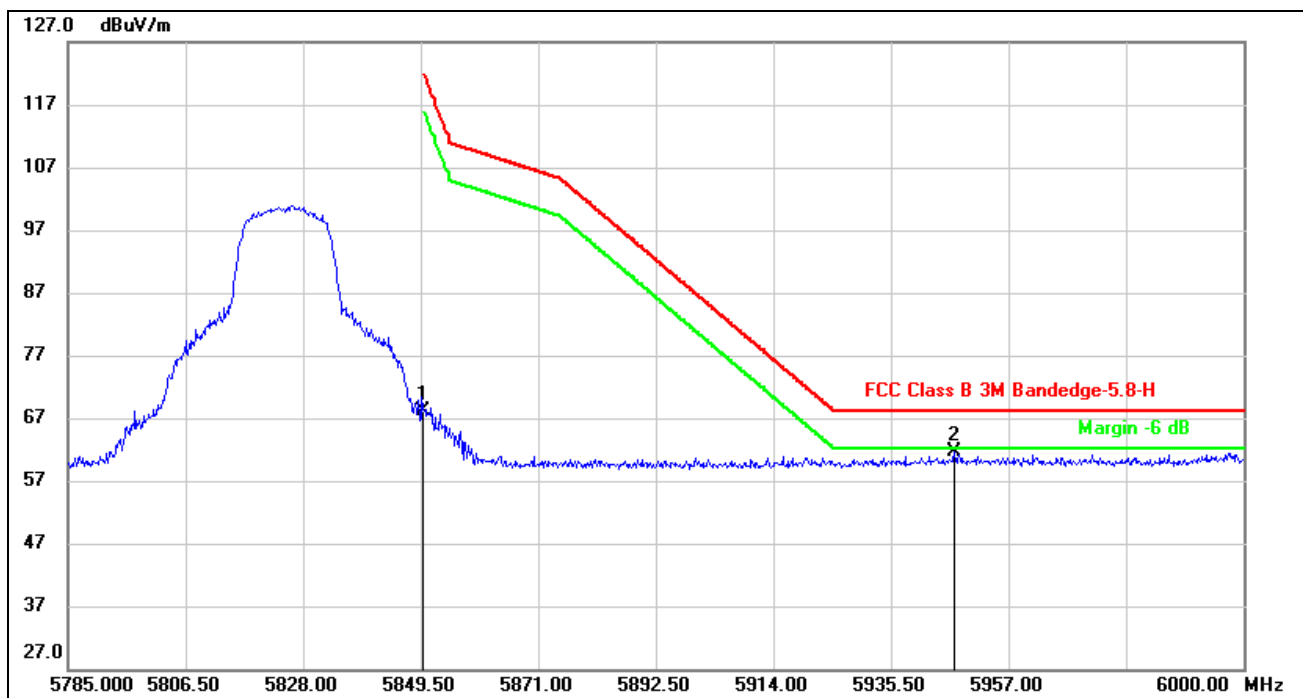


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	28.90	41.77	70.67	122.20	-51.53	peak
2	5951.410	19.71	42.01	61.72	68.20	-6.48	peak

Note: 1. Measurement = Reading Level + Correct Factor.



### VERTICAL RESULTS



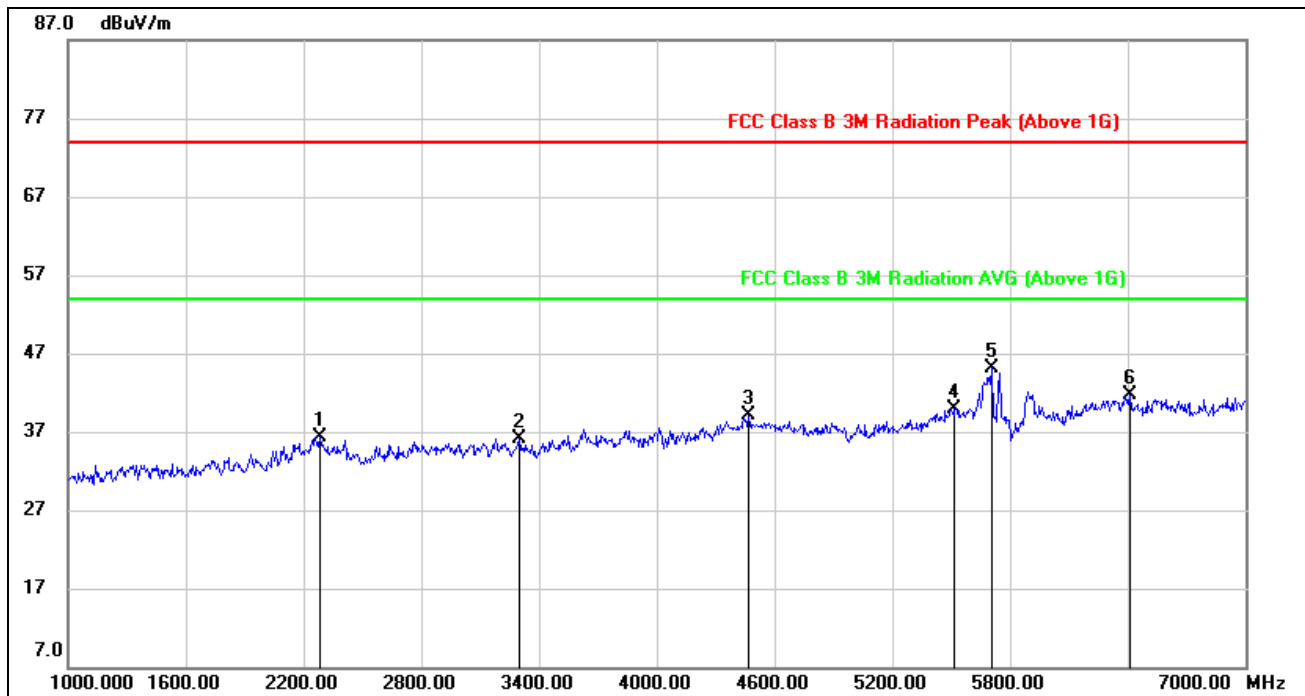
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	26.23	41.87	68.10	122.20	-54.10	peak
2	5947.110	19.48	42.09	61.57	68.20	-6.63	peak

Note: 1. Measurement = Reading Level + Correct Factor.



## HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL

### HORIZONTAL RESULTS 1-7GHz

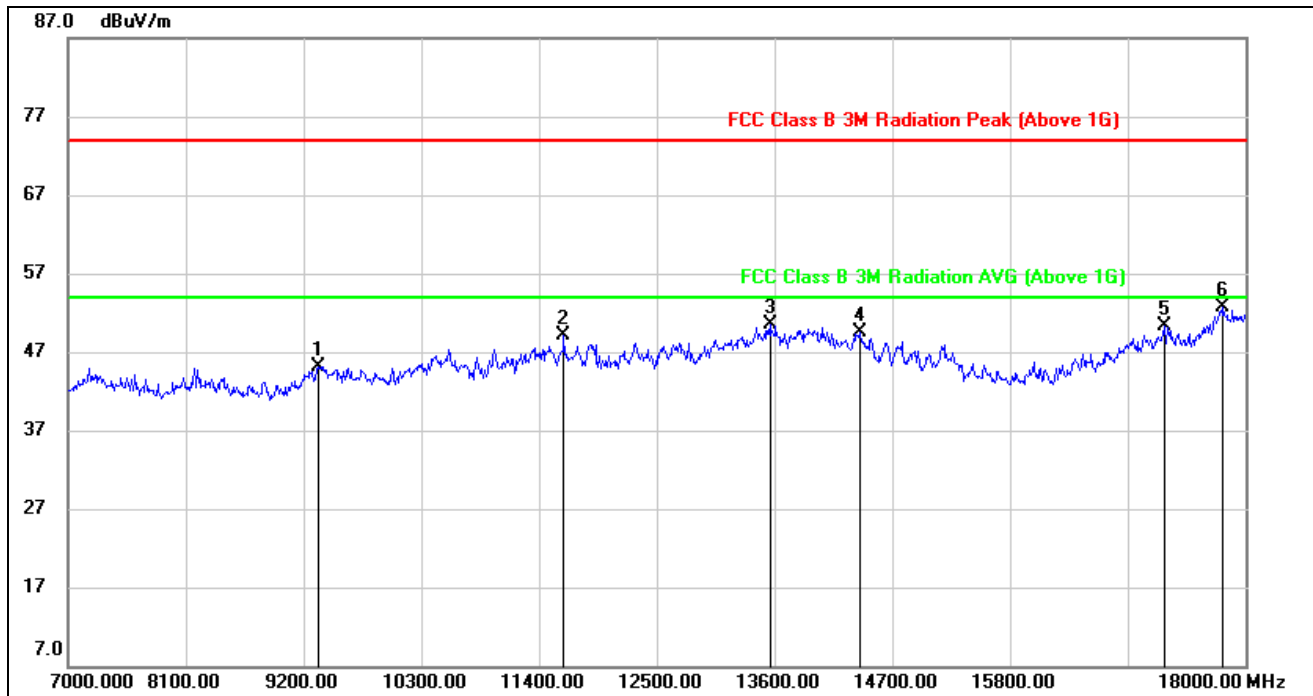


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2284.000	44.75	-8.37	36.38	74.00	-37.62	peak
2	3298.000	42.66	-6.60	36.06	74.00	-37.94	peak
3	4468.000	41.37	-2.34	39.03	74.00	-34.97	peak
4	5518.000	38.96	1.01	39.97	74.00	-34.03	peak
5	5704.000	44.29	0.91	45.20	74.00	-28.80	peak
6	6412.000	38.37	3.25	41.62	74.00	-32.38	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### HORIZONTAL RESULTS 7-18GHz

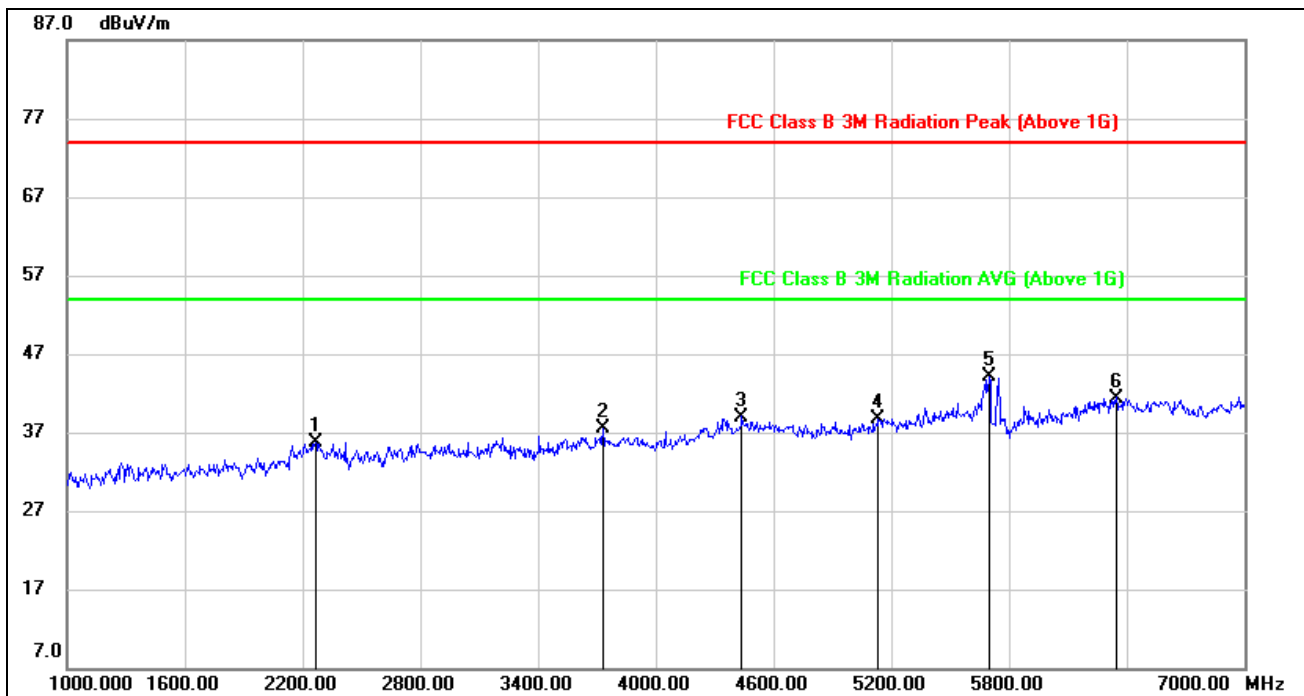


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9332.000	35.93	9.26	45.19	74.00	-28.81	peak
2	11631.000	34.88	14.15	49.03	74.00	-24.97	peak
3	13556.000	32.14	18.33	50.47	74.00	-23.53	peak
4	14403.000	31.68	17.89	49.57	74.00	-24.43	peak
5	17241.000	29.78	20.52	50.30	74.00	-23.70	peak
6	17791.000	28.54	24.12	52.66	74.00	-21.34	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



**VERTICAL RESULTS**  
**1-7GHz**

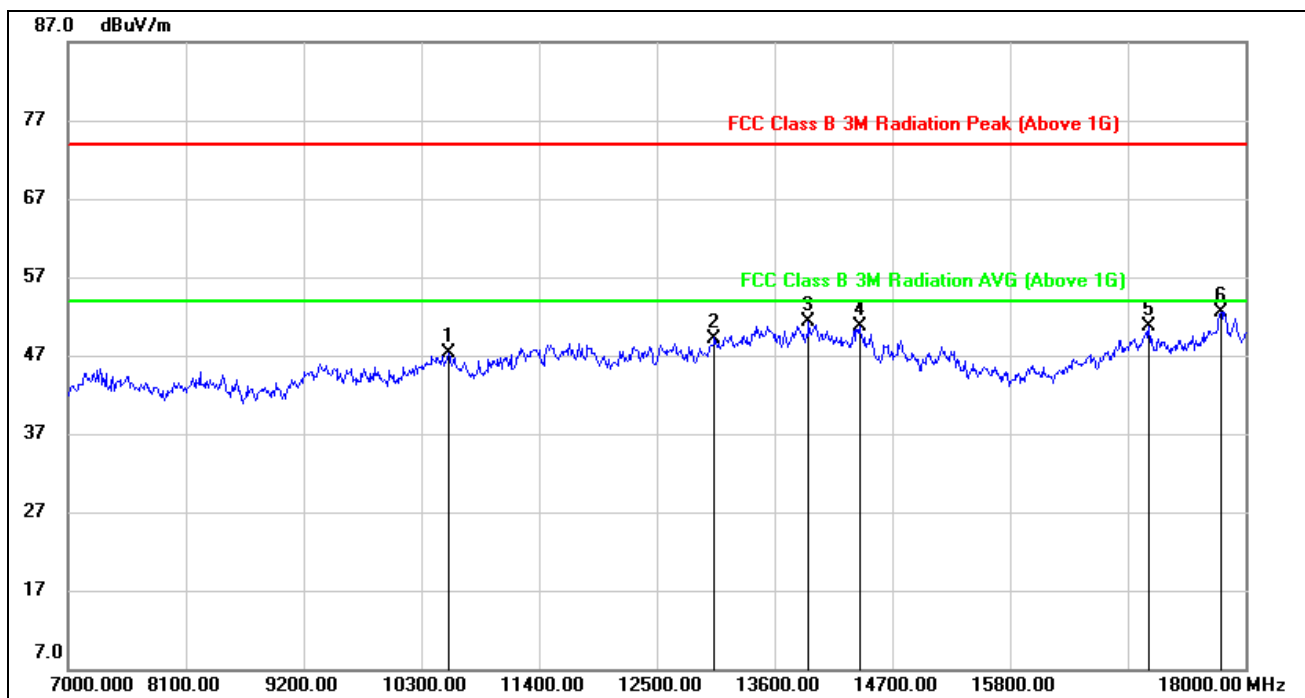


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2266.000	43.95	-8.31	35.64	74.00	-38.36	peak
2	3730.000	42.51	-4.95	37.56	74.00	-36.44	peak
3	4438.000	41.33	-2.33	39.00	74.00	-35.00	peak
4	5134.000	38.85	-0.12	38.73	74.00	-35.27	peak
5	5698.000	43.17	0.99	44.16	74.00	-29.84	peak
6	6346.000	38.15	3.25	41.40	74.00	-32.60	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### 7-18GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10553.000	35.38	11.89	47.27	74.00	-26.73	peak
2	13039.000	32.58	16.62	49.20	74.00	-24.80	peak
3	13919.000	32.56	18.71	51.27	74.00	-22.73	peak
4	14392.000	32.34	18.32	50.66	74.00	-23.34	peak
5	17098.000	30.05	20.65	50.70	74.00	-23.30	peak
6	17769.000	28.37	24.23	52.60	74.00	-21.40	peak

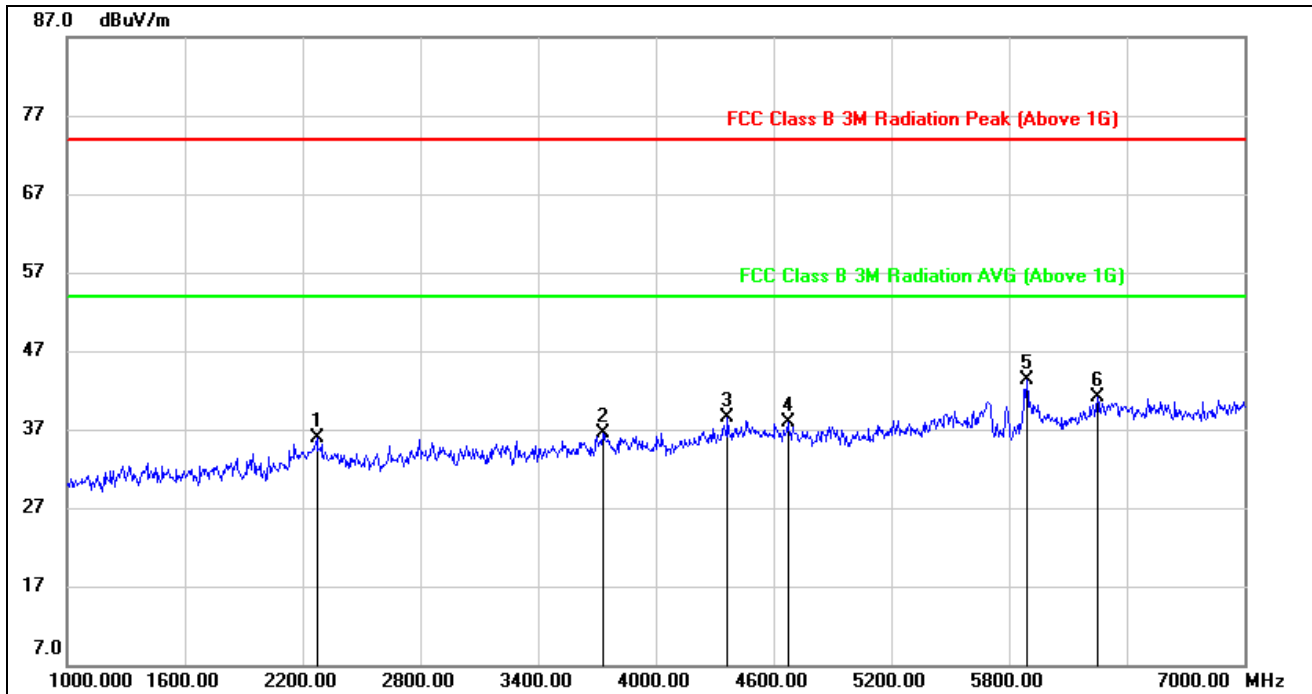
Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.





## HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL

### HORIZONTAL RESULTS 1-7GHz

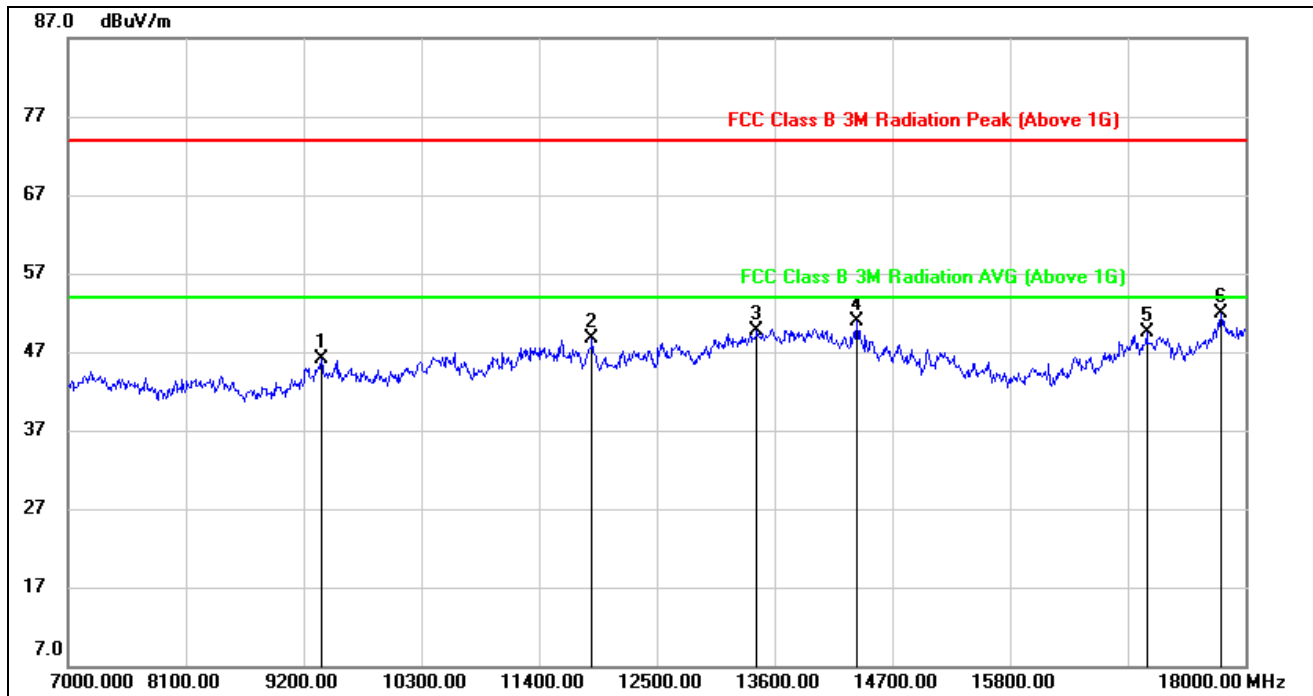


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2272.000	44.35	-8.36	35.99	74.00	-38.01	peak
2	3730.000	41.41	-4.99	36.42	74.00	-37.58	peak
3	4366.000	41.26	-2.75	38.51	74.00	-35.49	peak
4	4672.000	39.87	-1.98	37.89	74.00	-36.11	peak
5	5890.000	41.95	1.40	43.35	74.00	-30.65	peak
6	6250.000	38.02	2.99	41.01	74.00	-32.99	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### HORIZONTAL RESULTS 7-18GHz

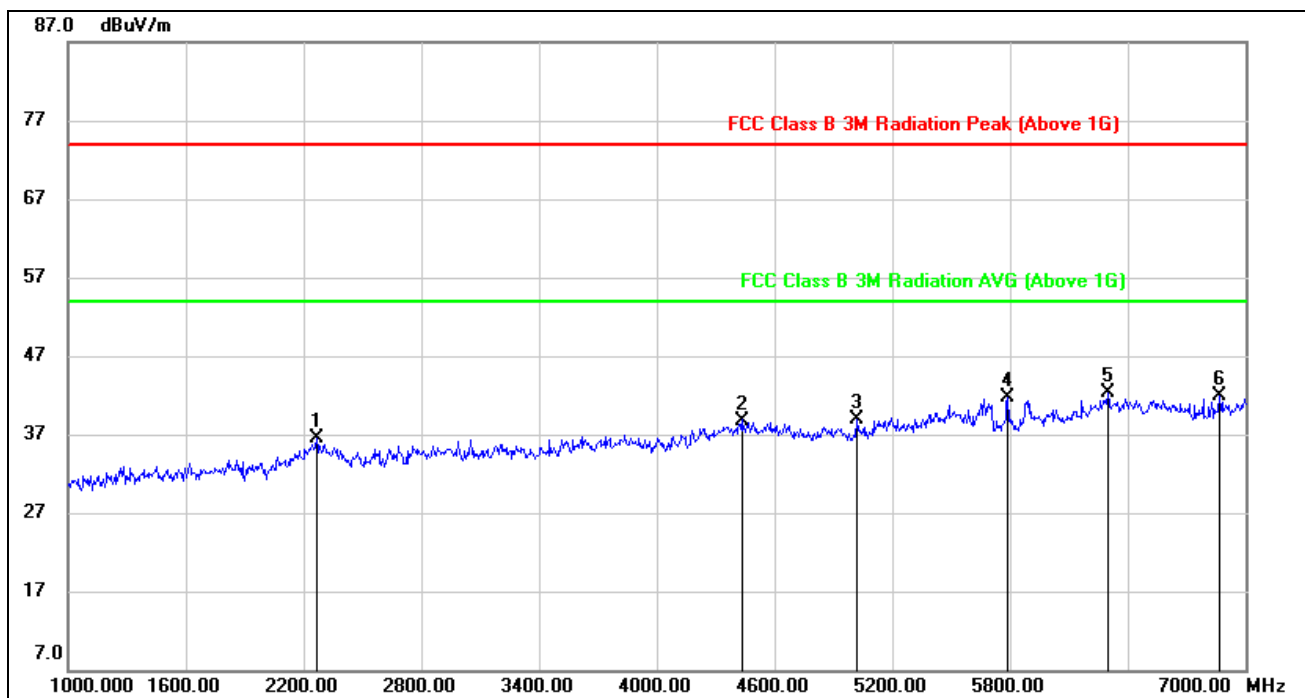


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9365.000	36.75	9.44	46.19	74.00	-27.81	peak
2	11895.000	33.46	15.15	48.61	74.00	-25.39	peak
3	13435.000	31.82	17.89	49.71	74.00	-24.29	peak
4	14370.000	33.02	17.87	50.89	74.00	-23.11	peak
5	17076.000	29.42	20.01	49.43	74.00	-24.57	peak
6	17769.000	28.16	23.83	51.99	74.00	-22.01	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



**VERTICAL RESULTS**  
**1-7GHz**

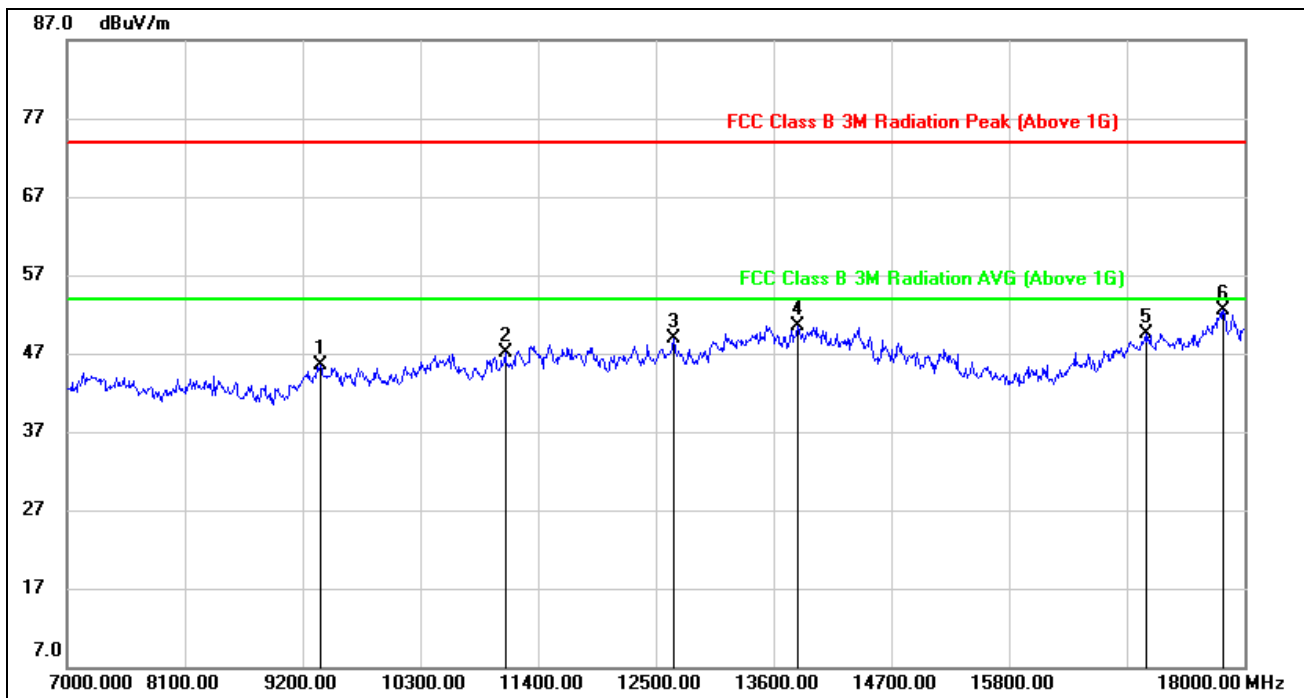


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2266.000	44.75	-8.31	36.44	74.00	-37.56	peak
2	4432.000	41.17	-2.37	38.80	74.00	-35.20	peak
3	5020.000	39.62	-0.70	38.92	74.00	-35.08	peak
4	5788.000	40.34	1.36	41.70	74.00	-32.30	peak
5	6298.000	39.06	3.24	42.30	74.00	-31.70	peak
6	6868.000	36.97	4.90	41.87	74.00	-32.13	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### 7-18GHz



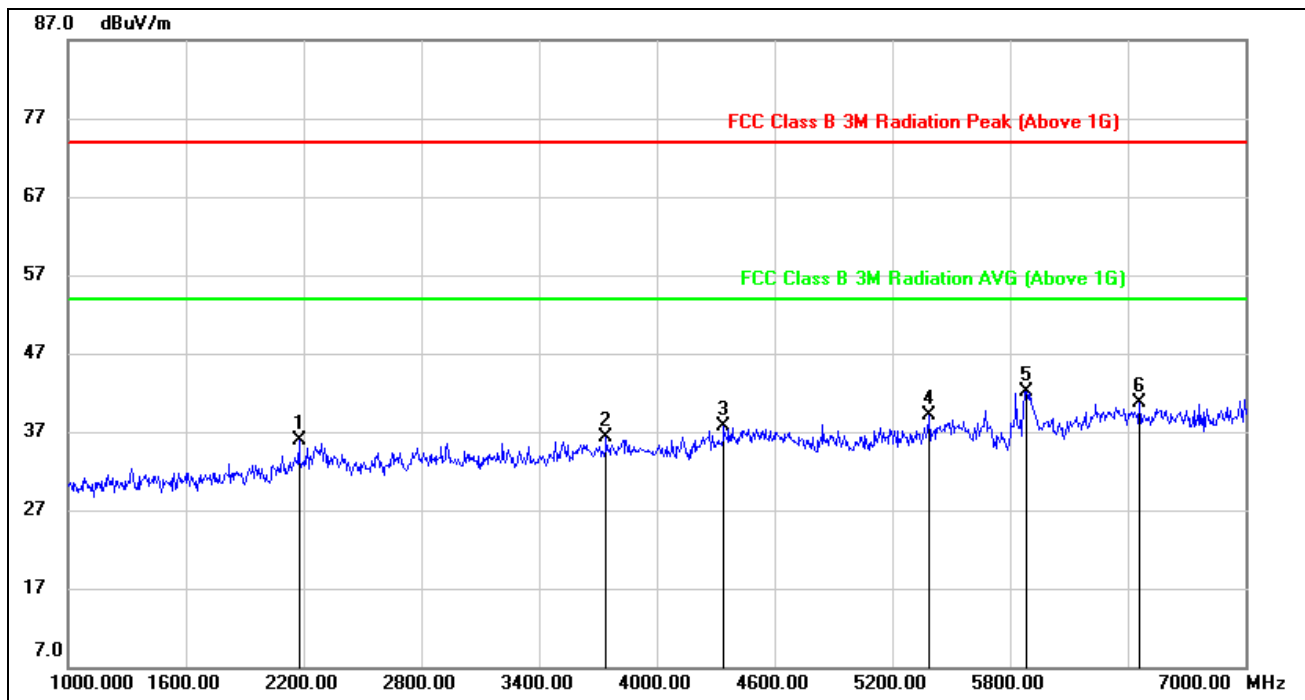
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9365.000	36.06	9.51	45.57	74.00	-28.43	peak
2	11092.000	34.32	12.84	47.16	74.00	-26.84	peak
3	12665.000	33.41	15.49	48.90	74.00	-25.10	peak
4	13820.000	31.60	18.94	50.54	74.00	-23.46	peak
5	17076.000	28.99	20.56	49.55	74.00	-24.45	peak
6	17802.000	27.93	24.61	52.54	74.00	-21.46	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



## HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL

### HORIZONTAL RESULTS 1-7GHz

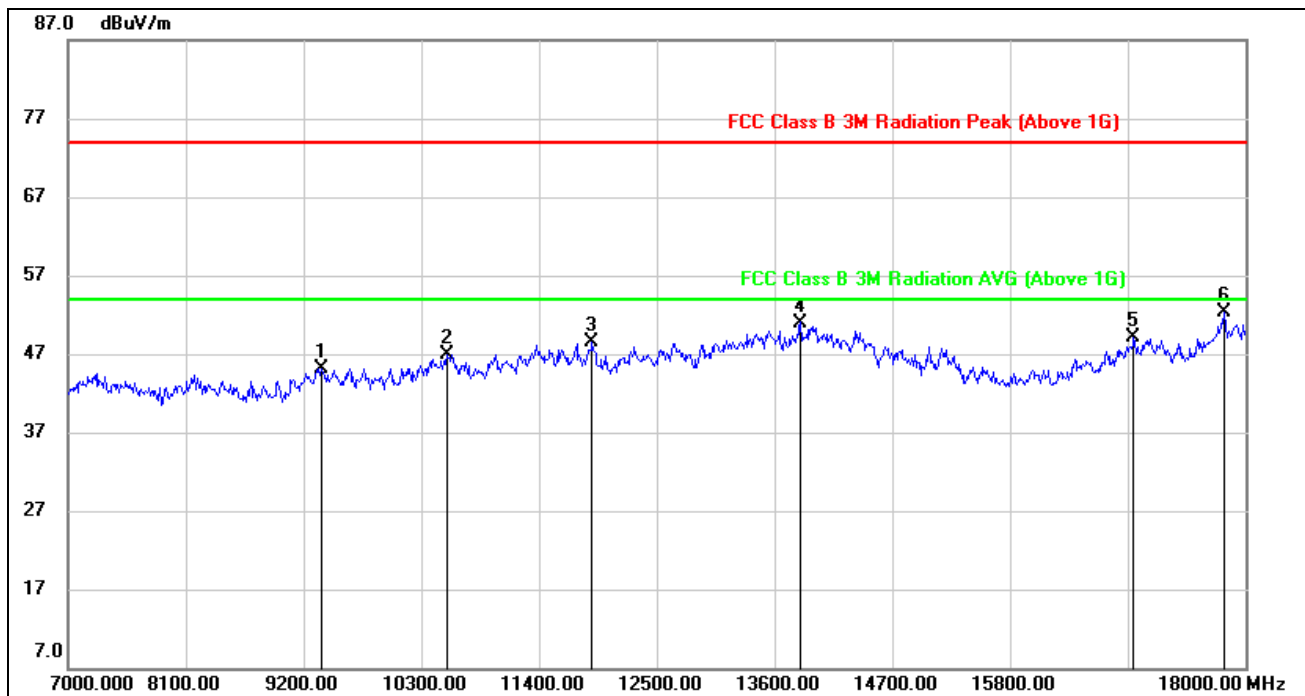


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2176.000	45.14	-9.20	35.94	74.00	-38.06	peak
2	3742.000	41.27	-4.95	36.32	74.00	-37.68	peak
3	4342.000	40.48	-2.87	37.61	74.00	-36.39	peak
4	5386.000	38.82	0.20	39.02	74.00	-34.98	peak
5	5884.000	40.77	1.39	42.16	74.00	-31.84	peak
6	6460.000	37.35	3.27	40.62	74.00	-33.38	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### HORIZONTAL RESULTS 7-18GHz

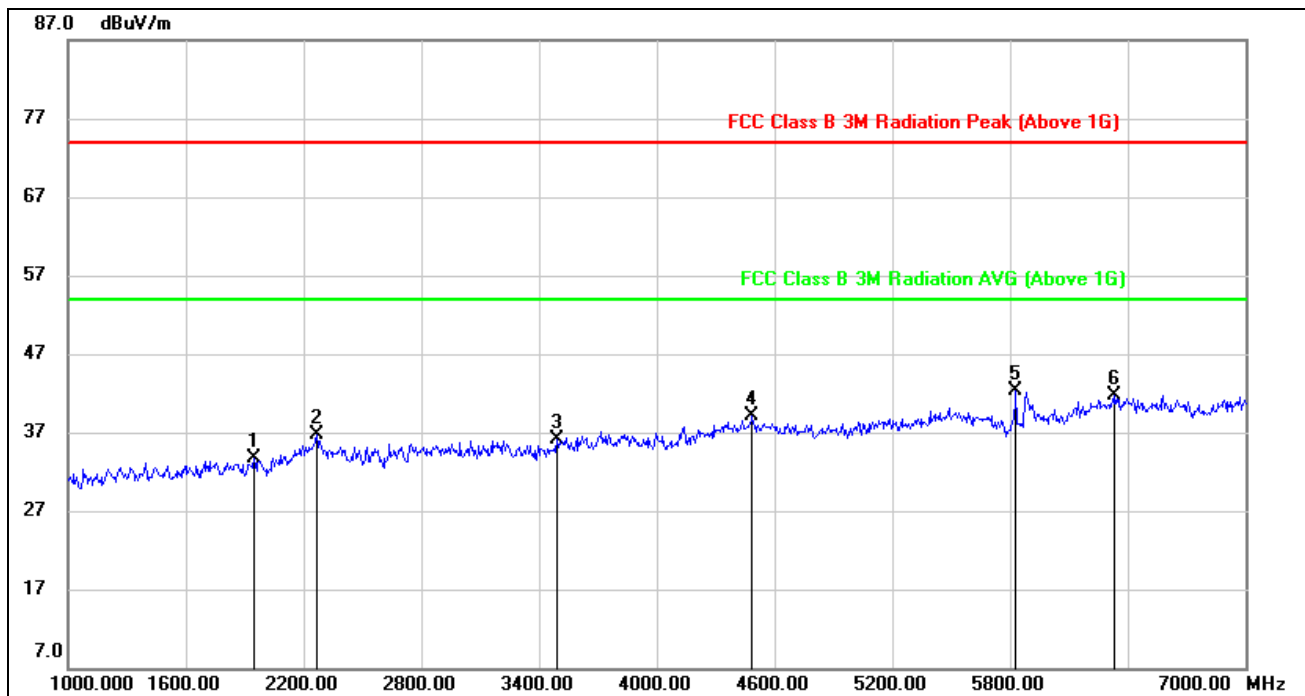


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9365.000	35.70	9.44	45.14	74.00	-28.86	peak
2	10542.000	34.99	11.97	46.96	74.00	-27.04	peak
3	11895.000	33.38	15.15	48.53	74.00	-25.47	peak
4	13842.000	32.42	18.58	51.00	74.00	-23.00	peak
5	16955.000	29.81	19.33	49.14	74.00	-24.86	peak
6	17802.000	27.98	24.24	52.22	74.00	-21.78	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



**VERTICAL RESULTS**  
**1-7GHz**

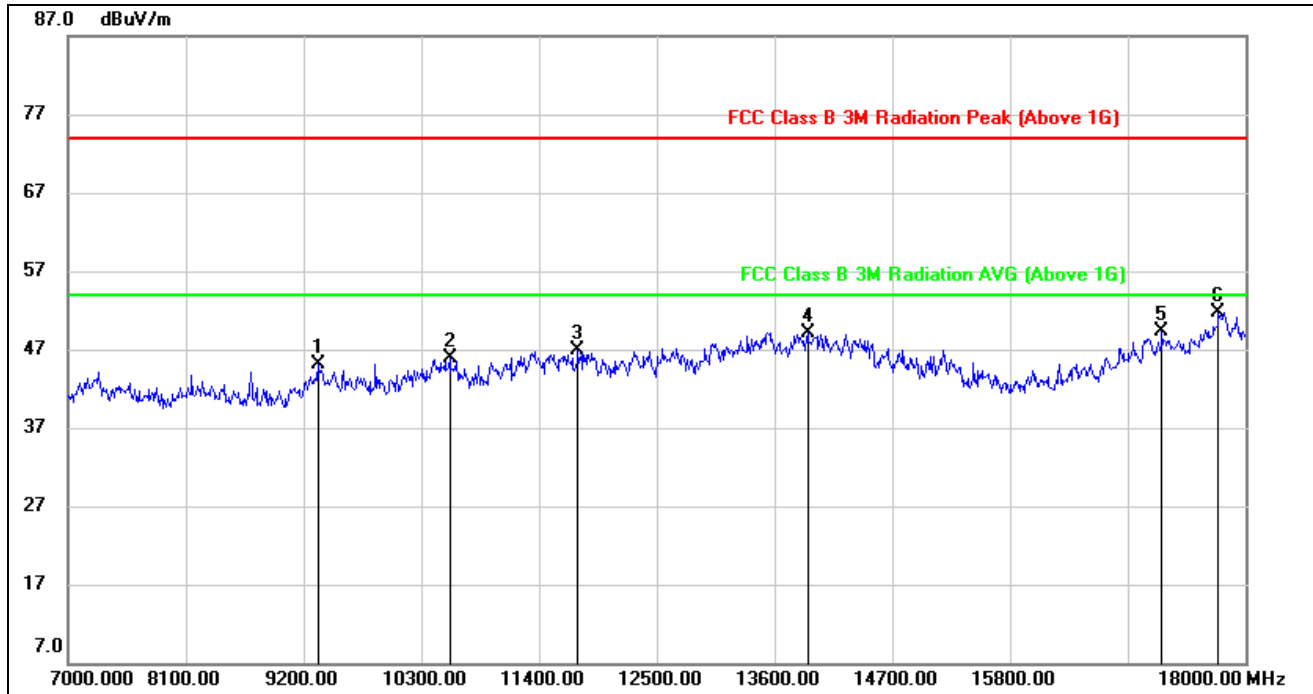


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1948.000	45.09	-11.43	33.66	74.00	-40.34	peak
2	2266.000	44.97	-8.31	36.66	74.00	-37.34	peak
3	3490.000	42.09	-6.02	36.07	74.00	-37.93	peak
4	4486.000	41.28	-2.19	39.09	74.00	-34.91	peak
5	5830.000	40.79	1.47	42.26	74.00	-31.74	peak
6	6334.000	38.50	3.24	41.74	74.00	-32.26	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### 7-18GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9332.000	35.71	9.40	45.11	74.00	-28.89	peak
2	10564.000	34.06	11.90	45.96	74.00	-28.04	peak
3	11763.000	32.72	14.12	46.84	74.00	-27.16	peak
4	13908.000	30.35	18.72	49.07	74.00	-24.93	peak
5	17219.000	28.59	20.80	49.39	74.00	-24.61	peak
6	17747.000	27.83	23.94	51.77	74.00	-22.23	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.





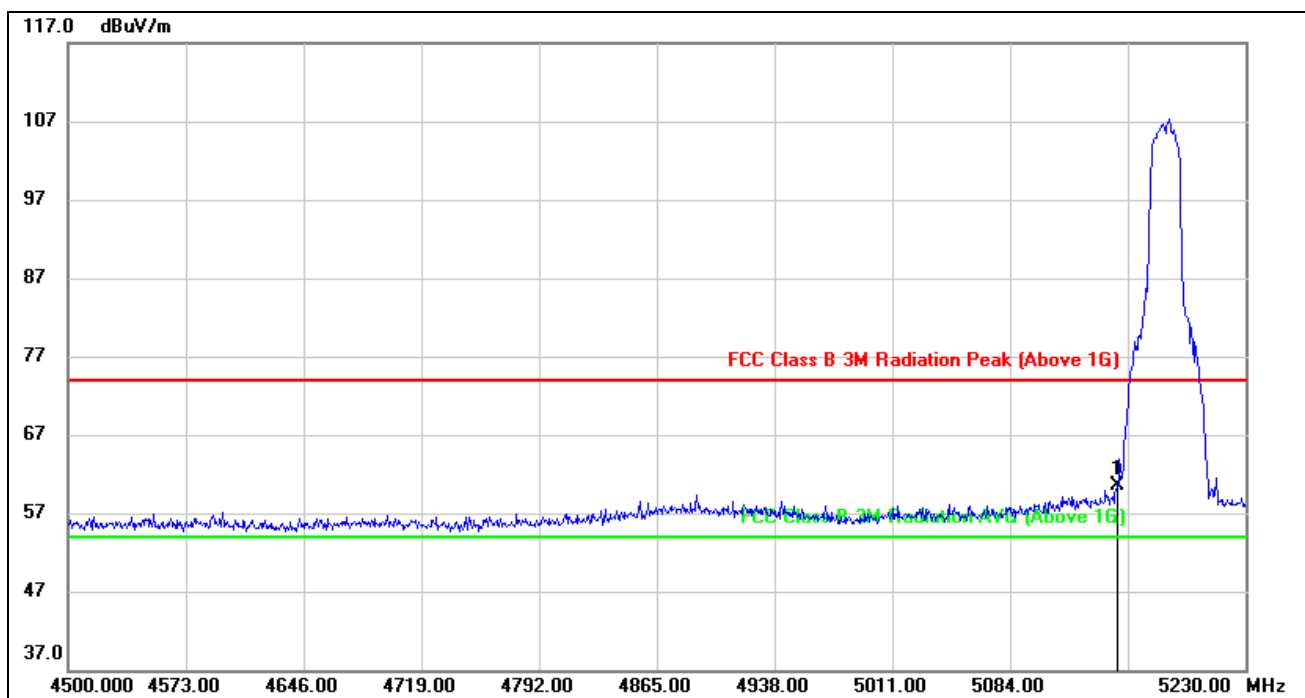
## 7.2. 802.11n HT20 MODE

### WORST-CASE CONFIGURATION

#### 7.2.1. UNII-1 BAND

### RESTRICTED BANDEDGE LOW CHANNEL

#### HORIZONTAL RESULTS PEAK

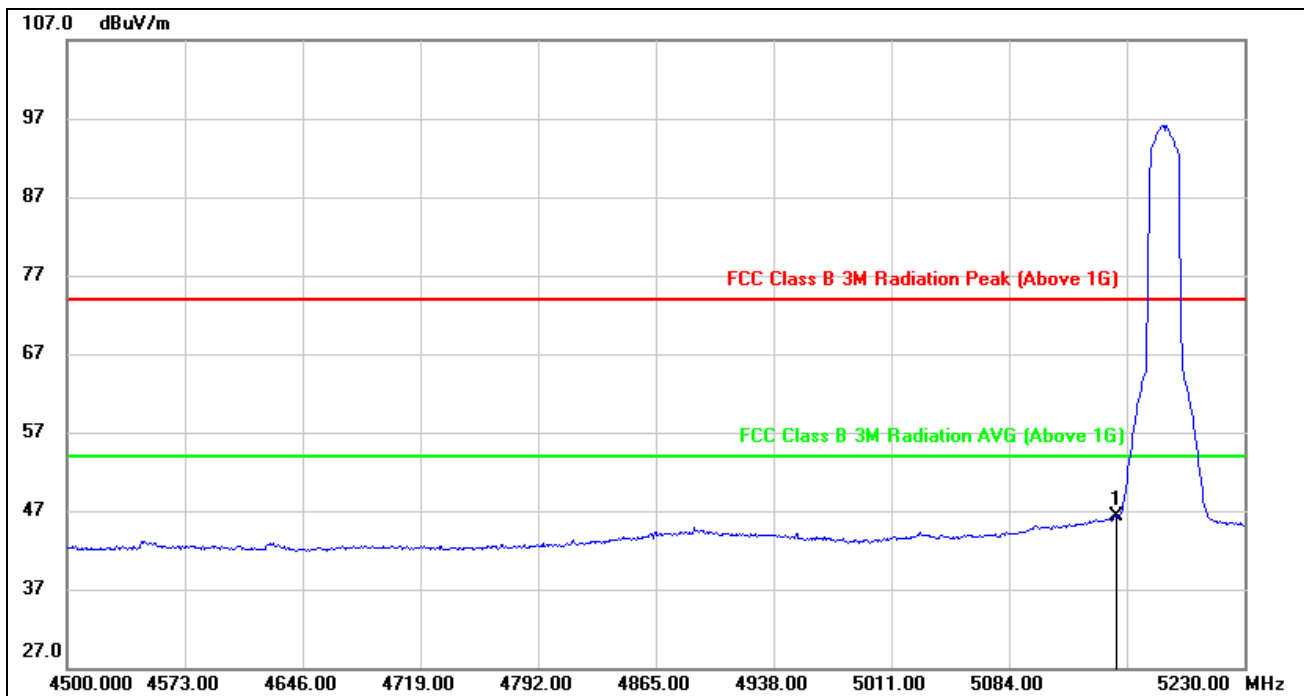


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	20.03	40.40	60.43	74.00	-13.57	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



**AVG**

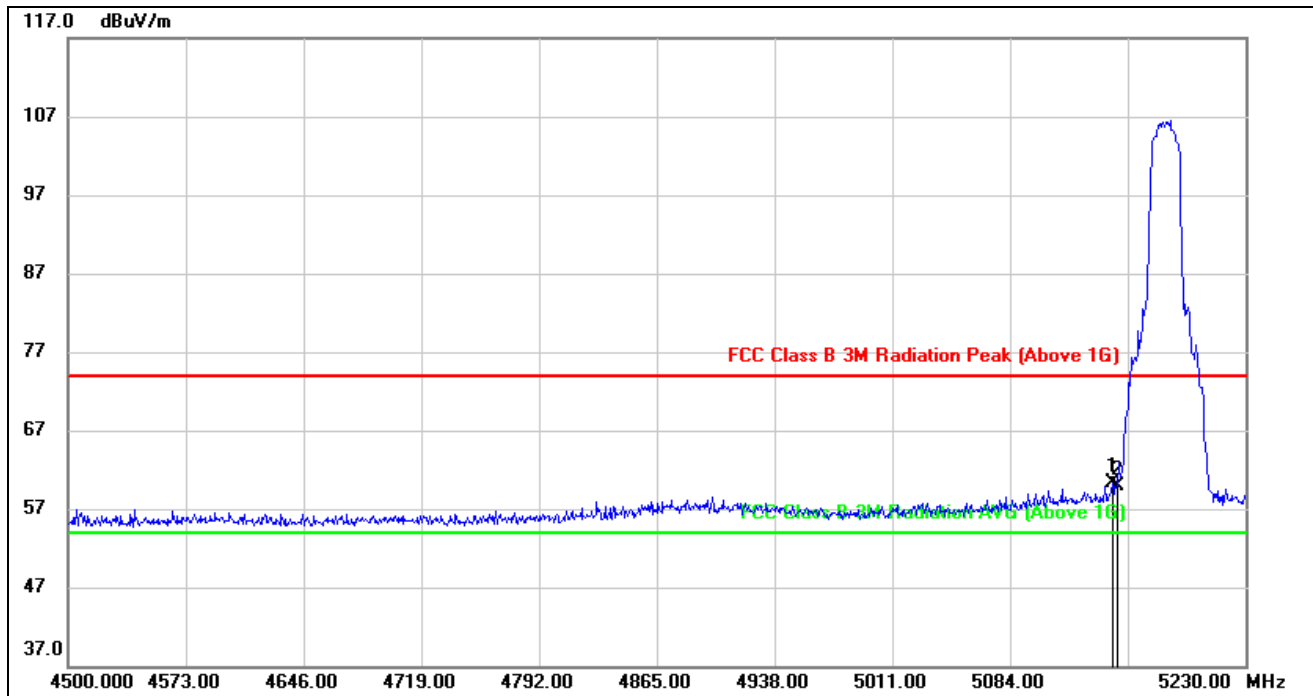


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	5.83	40.40	46.23	54.00	-7.77	AVG

Note: 1. Measurement = Reading Level + Correct Factor.  
2. AVG:  $VBW=1/Ton$  where: ton is transmit duration.  
3. For duty cycle, please refer to clause 6.1.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



**VERTICAL RESULTS**  
**PEAK**

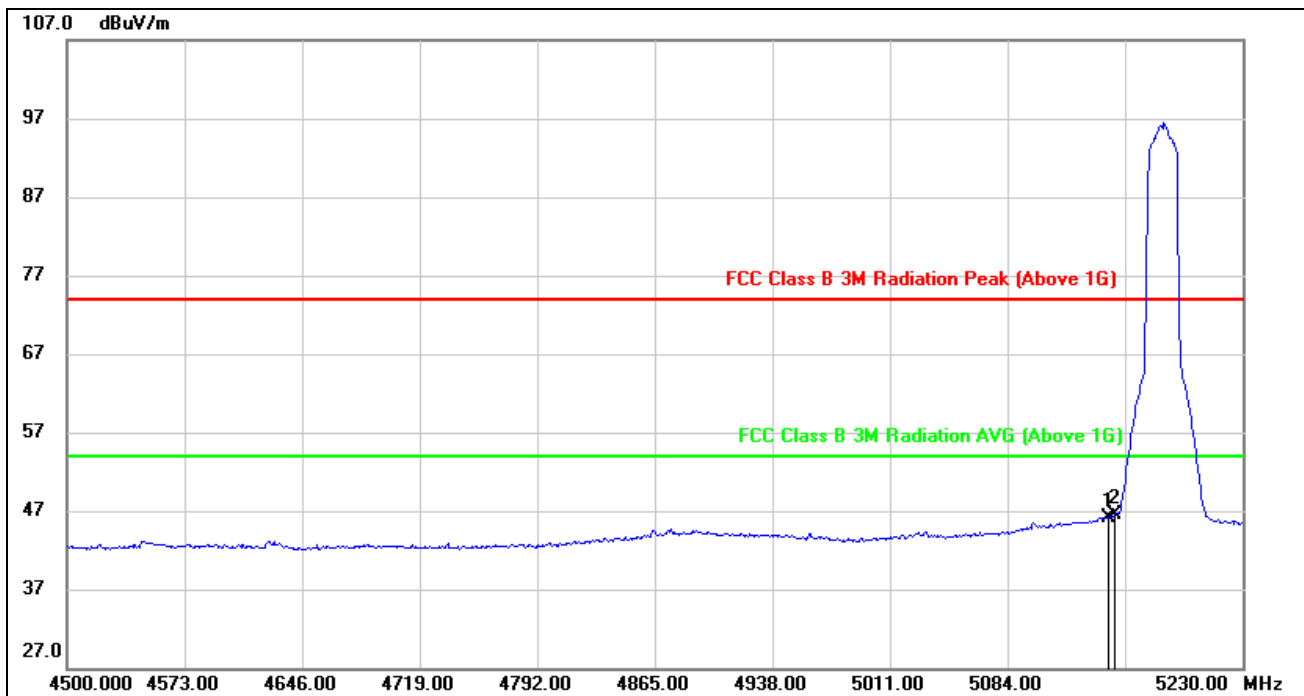


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5147.510	19.80	40.60	60.40	74.00	-13.60	peak
2	5150.000	19.33	40.60	59.93	74.00	-14.07	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



**AVG**



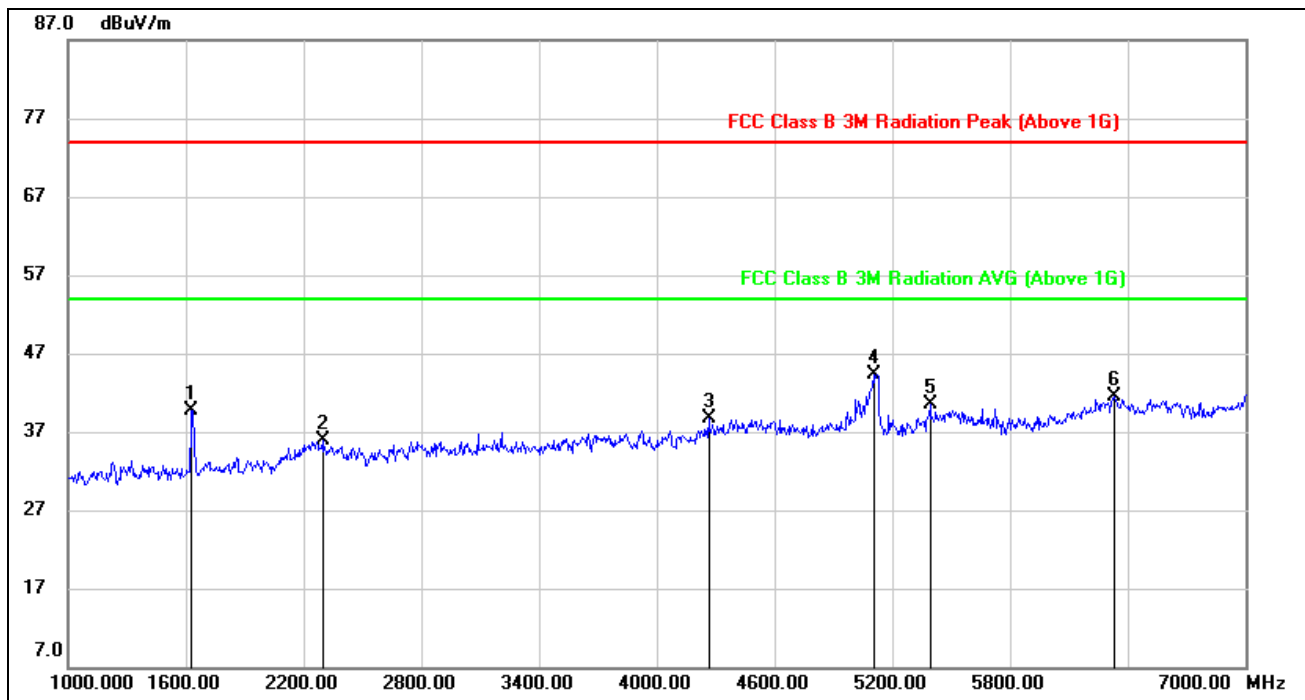
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5147.510	5.51	40.60	46.11	54.00	-7.89	AVG
2	5150.000	5.88	40.60	46.48	54.00	-7.52	AVG

Note: 1. Measurement = Reading Level + Correct Factor.  
2. AVG:  $VBW=1/Ton$  where: ton is transmit duration.  
3. For duty cycle, please refer to clause 6.1.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



## HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL

### HORIZONTAL RESULTS 1-7GHz

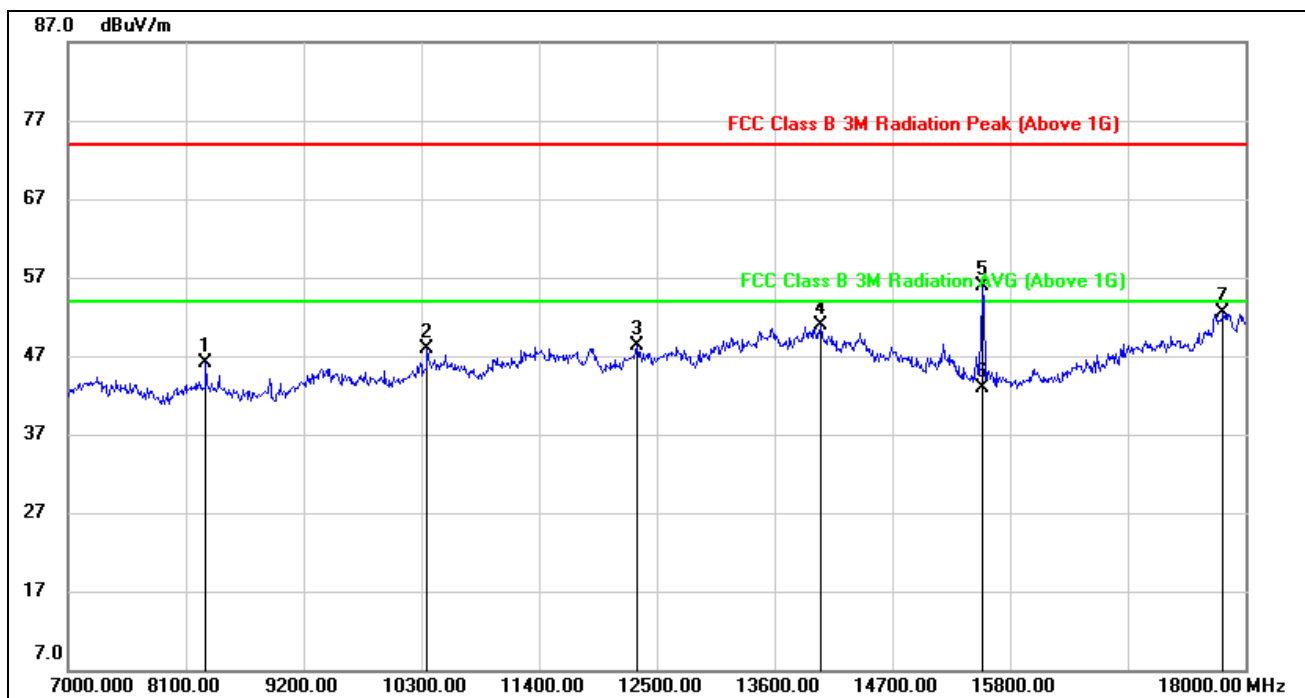


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1630.000	52.24	-12.46	39.78	74.00	-34.22	peak
2	2296.000	44.25	-8.36	35.89	74.00	-38.11	peak
3	4264.000	42.07	-3.35	38.72	74.00	-35.28	peak
4	5104.000	44.82	-0.47	44.35	74.00	-29.65	peak
5	5392.000	40.21	0.25	40.46	74.00	-33.54	peak
6	6334.000	38.18	3.24	41.42	74.00	-32.58	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### HORIZONTAL RESULTS 7-18GHz

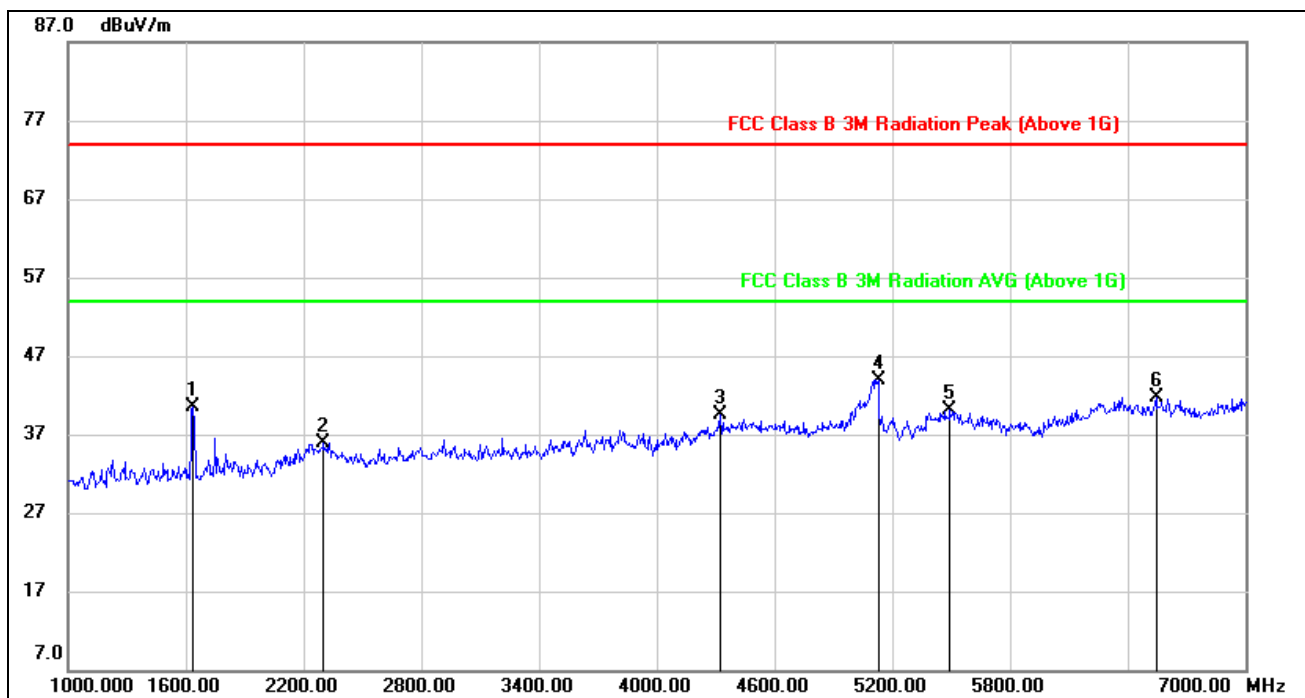


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8287.000	39.20	6.88	46.08	74.00	-27.92	peak
2	10355.000	36.77	11.09	47.86	74.00	-26.14	peak
3	12313.000	33.97	14.33	48.30	74.00	-25.70	peak
4	14029.000	32.48	18.47	50.95	74.00	-23.05	peak
5	15540.000	40.87	15.01	55.88	74.00	-18.12	peak
6	15540.000	27.83	15.01	42.84	54.00	-11.16	AVG
7	17791.000	28.37	24.12	52.49	74.00	-21.51	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



**VERTICAL RESULTS**  
**1-7GHz**

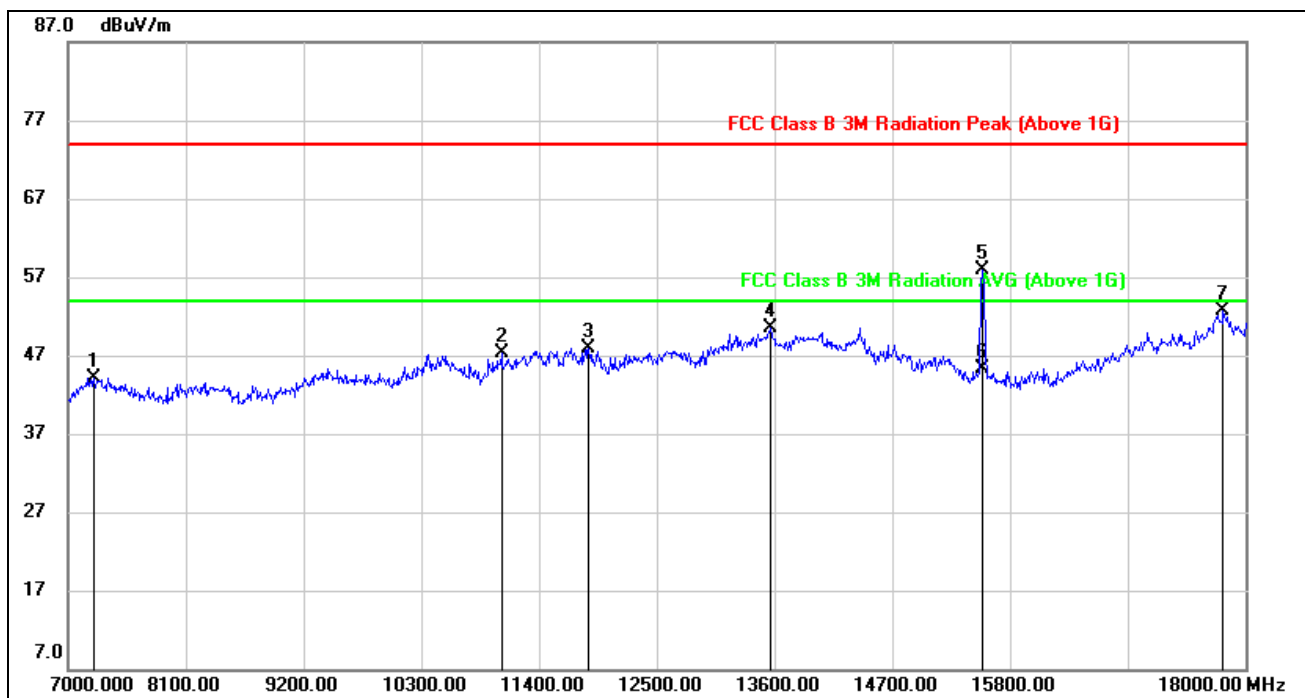


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1636.000	52.91	-12.43	40.48	74.00	-33.52	peak
2	2302.000	44.02	-8.18	35.84	74.00	-38.16	peak
3	4324.000	42.33	-2.88	39.45	74.00	-34.55	peak
4	5128.000	44.12	-0.14	43.98	74.00	-30.02	peak
5	5494.000	39.17	0.99	40.16	74.00	-33.84	peak
6	6544.000	37.93	3.83	41.76	74.00	-32.24	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### 7-18GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7242.000	37.83	6.36	44.19	74.00	-29.81	peak
2	11048.000	34.47	12.92	47.39	74.00	-26.61	peak
3	11862.000	33.20	14.73	47.93	74.00	-26.07	peak
4	13567.000	31.84	18.71	50.55	74.00	-23.45	peak
5	15540.000	42.77	15.21	57.98	74.00	-16.02	peak
6	15540.000	30.10	15.21	45.31	54.00	-8.69	AVG
7	17791.000	28.14	24.52	52.66	74.00	-21.34	peak

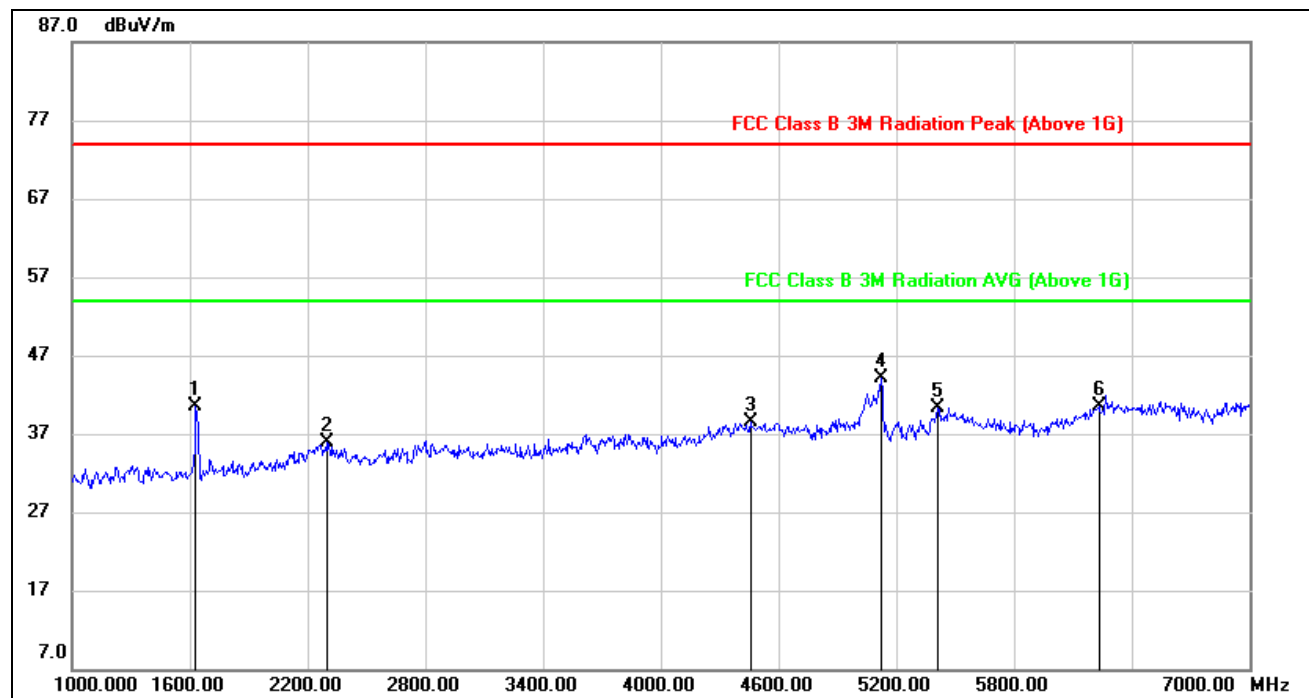
Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.





## HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL

### HORIZONTAL RESULTS 1-7GHz

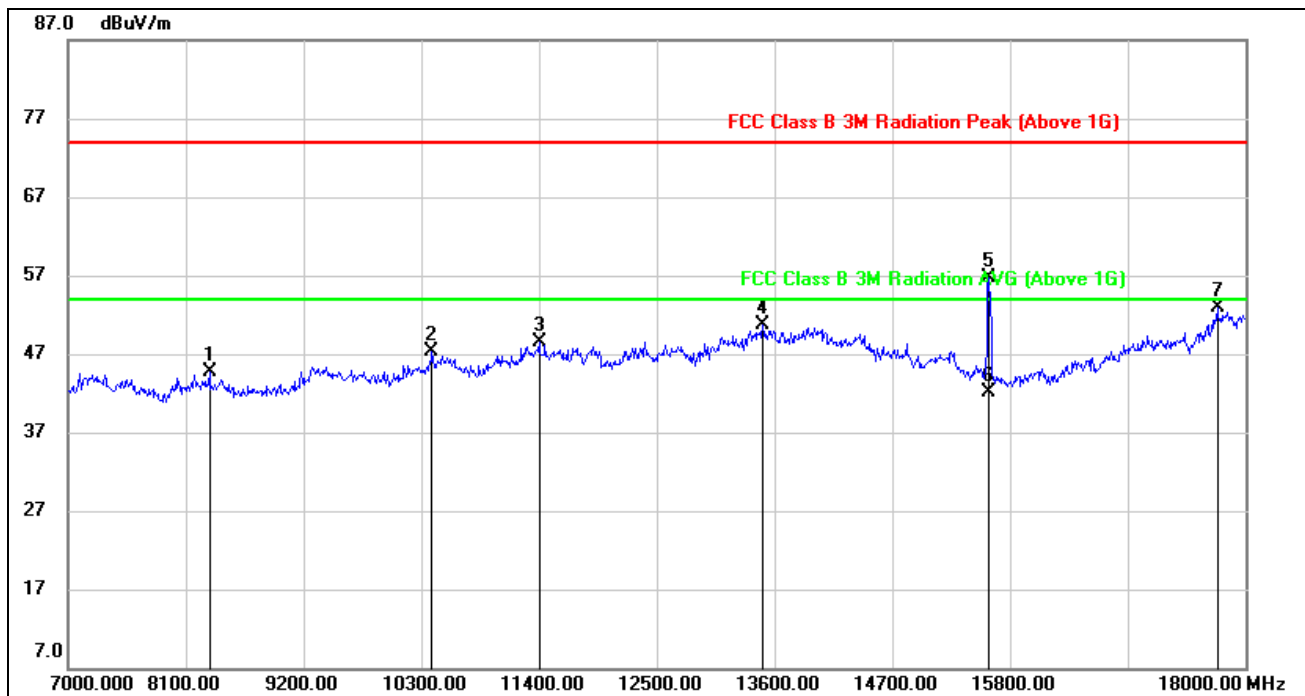


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1630.000	52.99	-12.46	40.53	74.00	-33.47	peak
2	2296.000	44.30	-8.36	35.94	74.00	-38.06	peak
3	4456.000	40.85	-2.37	38.48	74.00	-35.52	peak
4	5122.000	44.46	-0.38	44.08	74.00	-29.92	peak
5	5410.000	40.00	0.39	40.39	74.00	-33.61	peak
6	6232.000	37.57	2.94	40.51	74.00	-33.49	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### HORIZONTAL RESULTS 7-18GHz

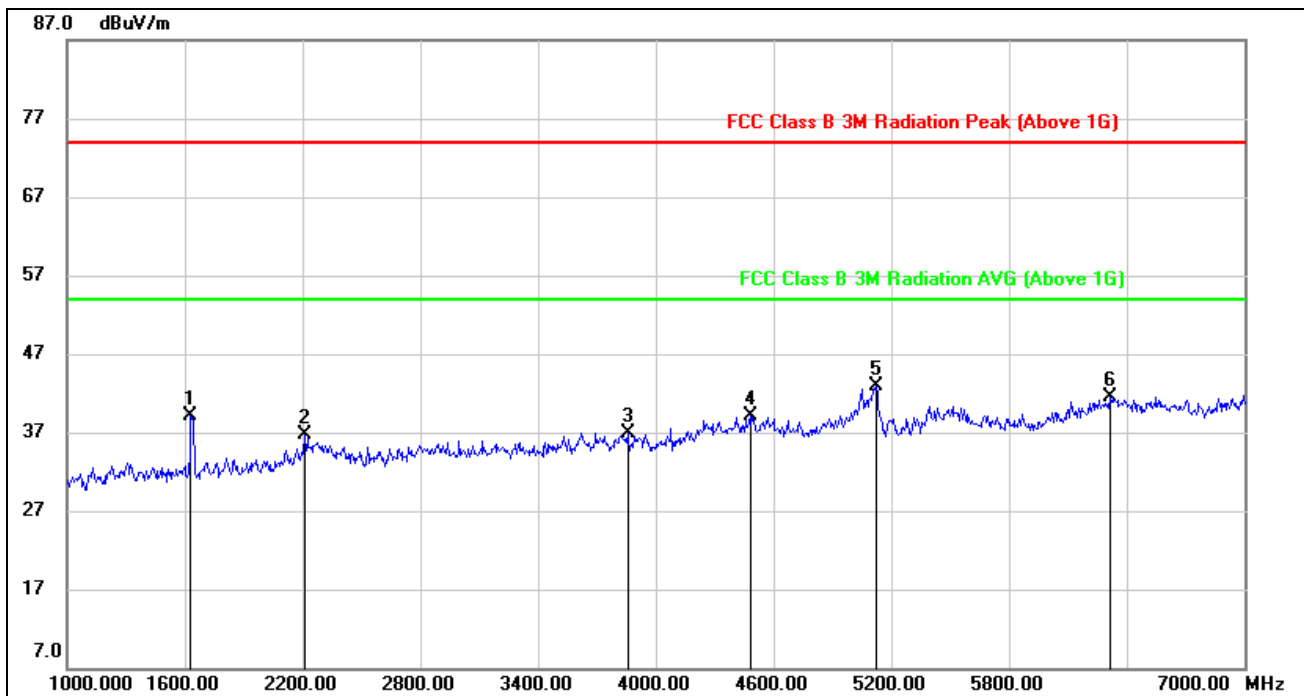


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8320.000	37.90	6.84	44.74	74.00	-29.26	peak
2	10399.000	35.97	11.40	47.37	74.00	-26.63	peak
3	11400.000	34.67	13.74	48.41	74.00	-25.59	peak
4	13490.000	32.54	18.07	50.61	74.00	-23.39	peak
5	15600.000	41.95	14.81	56.76	74.00	-17.24	peak
6	15600.000	27.36	14.81	42.17	54.00	-11.83	AVG
7	17736.000	29.30	23.54	52.84	74.00	-21.16	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



**VERTICAL RESULTS**  
**1-7GHz**

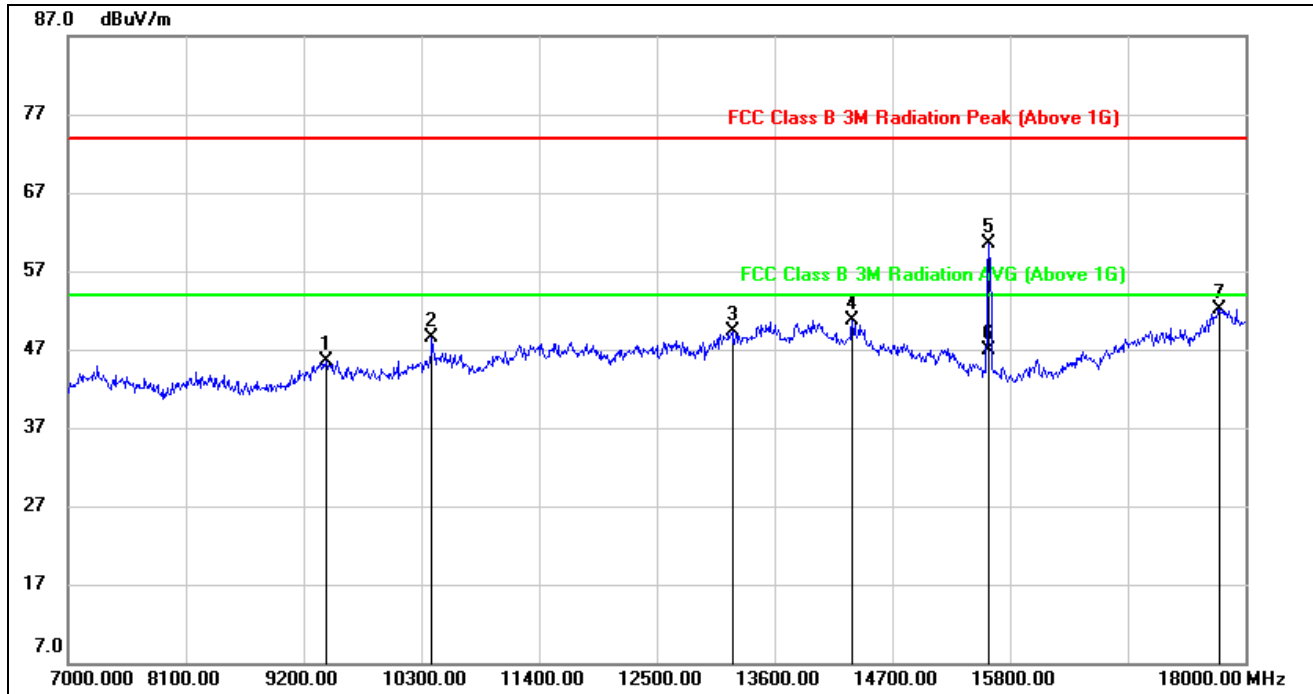


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1630.000	51.57	-12.46	39.11	74.00	-34.89	peak
2	2212.000	45.45	-8.75	36.70	74.00	-37.30	peak
3	3856.000	41.51	-4.54	36.97	74.00	-37.03	peak
4	4480.000	41.25	-2.21	39.04	74.00	-34.96	peak
5	5122.000	43.13	-0.18	42.95	74.00	-31.05	peak
6	6316.000	38.34	3.25	41.59	74.00	-32.41	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### 7-18GHz



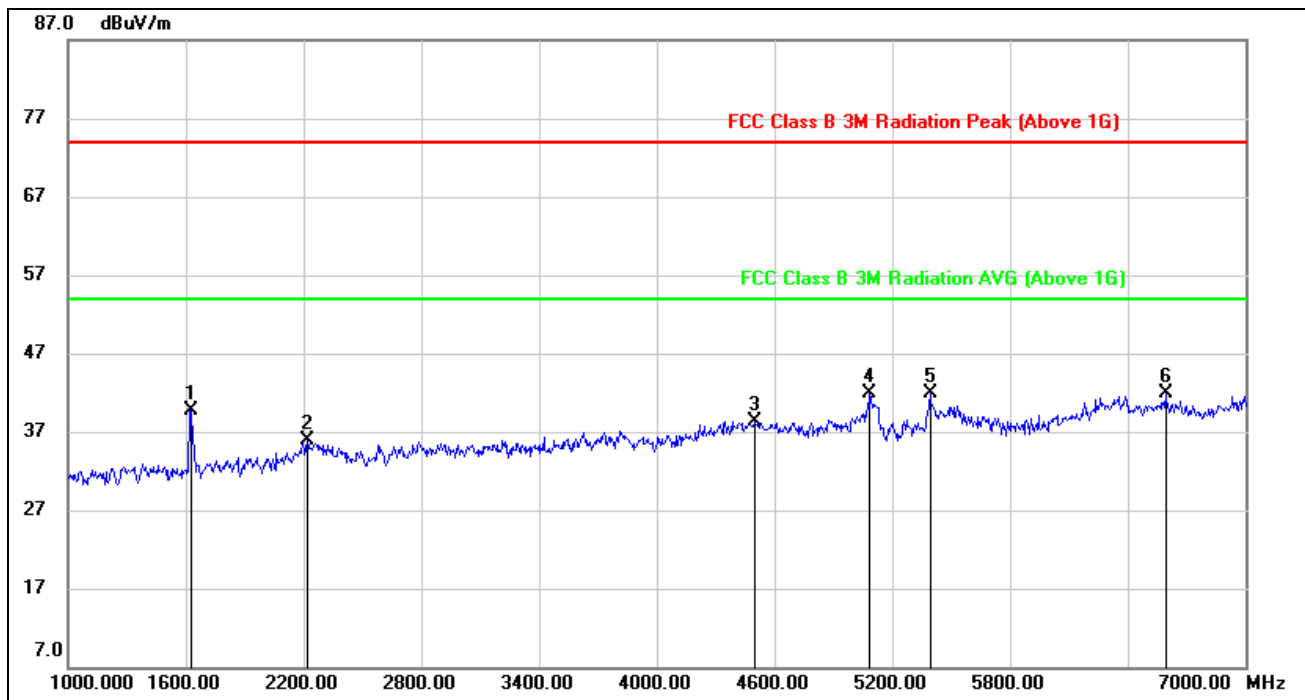
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9409.000	35.94	9.57	45.51	74.00	-28.49	peak
2	10399.000	37.02	11.50	48.52	74.00	-25.48	peak
3	13204.000	32.04	17.28	49.32	74.00	-24.68	peak
4	14326.000	32.65	18.09	50.74	74.00	-23.26	peak
5	15600.000	45.54	15.01	60.55	74.00	-13.45	peak
6	15600.000	31.96	15.01	46.97	54.00	-7.03	AVG
7	17758.000	28.06	24.08	52.14	74.00	-21.86	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



## HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL

### HORIZONTAL RESULTS 1-7GHz

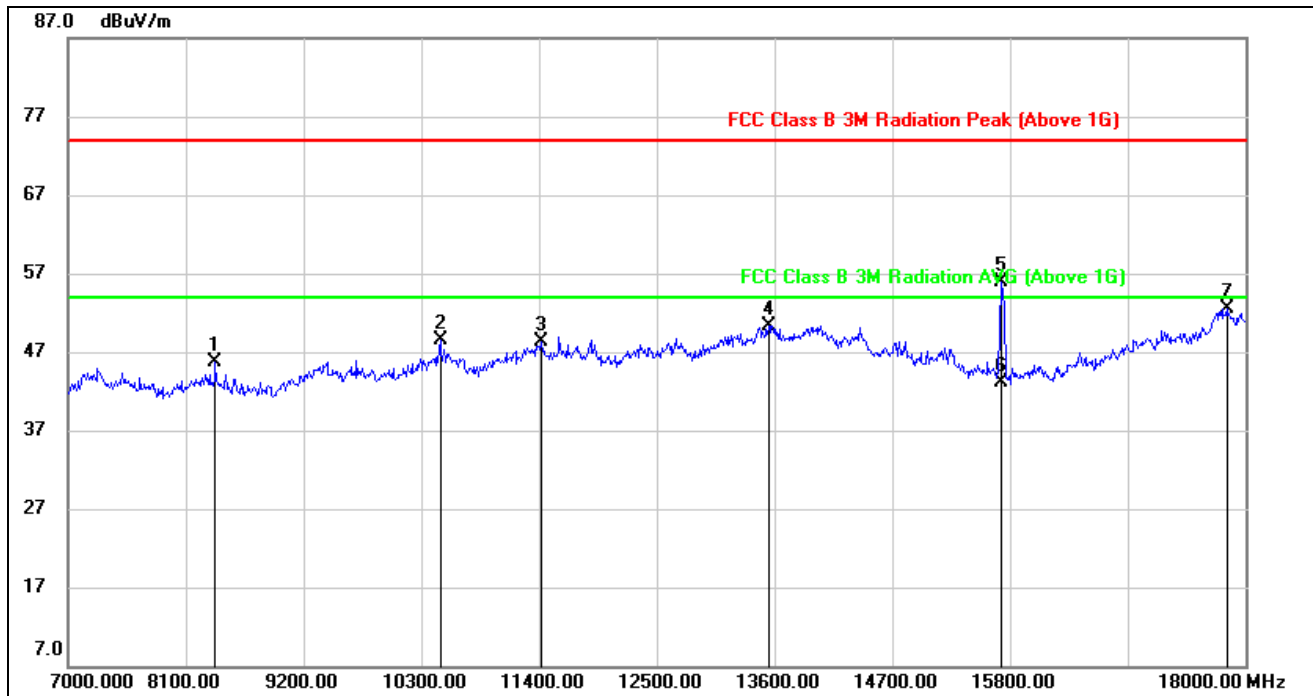


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1624.000	52.23	-12.50	39.73	74.00	-34.27	peak
2	2218.000	44.52	-8.70	35.82	74.00	-38.18	peak
3	4498.000	40.58	-2.26	38.32	74.00	-35.68	peak
4	5086.000	42.47	-0.55	41.92	74.00	-32.08	peak
5	5392.000	41.57	0.25	41.82	74.00	-32.18	peak
6	6592.000	37.68	4.19	41.87	74.00	-32.13	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### HORIZONTAL RESULTS 7-18GHz

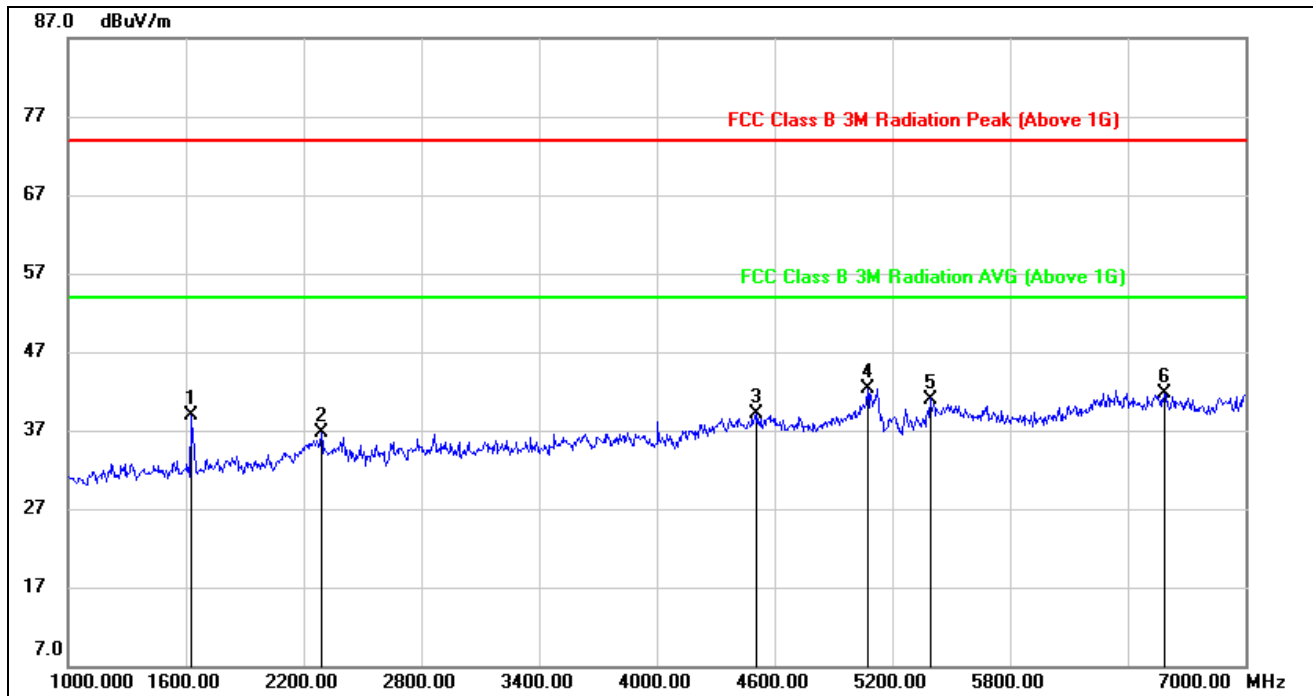


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8375.000	38.83	6.80	45.63	74.00	-28.37	peak
2	10476.000	36.64	11.80	48.44	74.00	-25.56	peak
3	11422.000	34.58	13.79	48.37	74.00	-25.63	peak
4	13545.000	32.00	18.27	50.27	74.00	-23.73	peak
5	15720.000	40.33	15.49	55.82	74.00	-18.18	peak
6	15720.000	27.52	15.49	43.01	54.00	-10.99	AVG
7	17824.000	28.17	24.25	52.42	74.00	-21.58	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



**VERTICAL RESULTS**  
**1-7GHz**

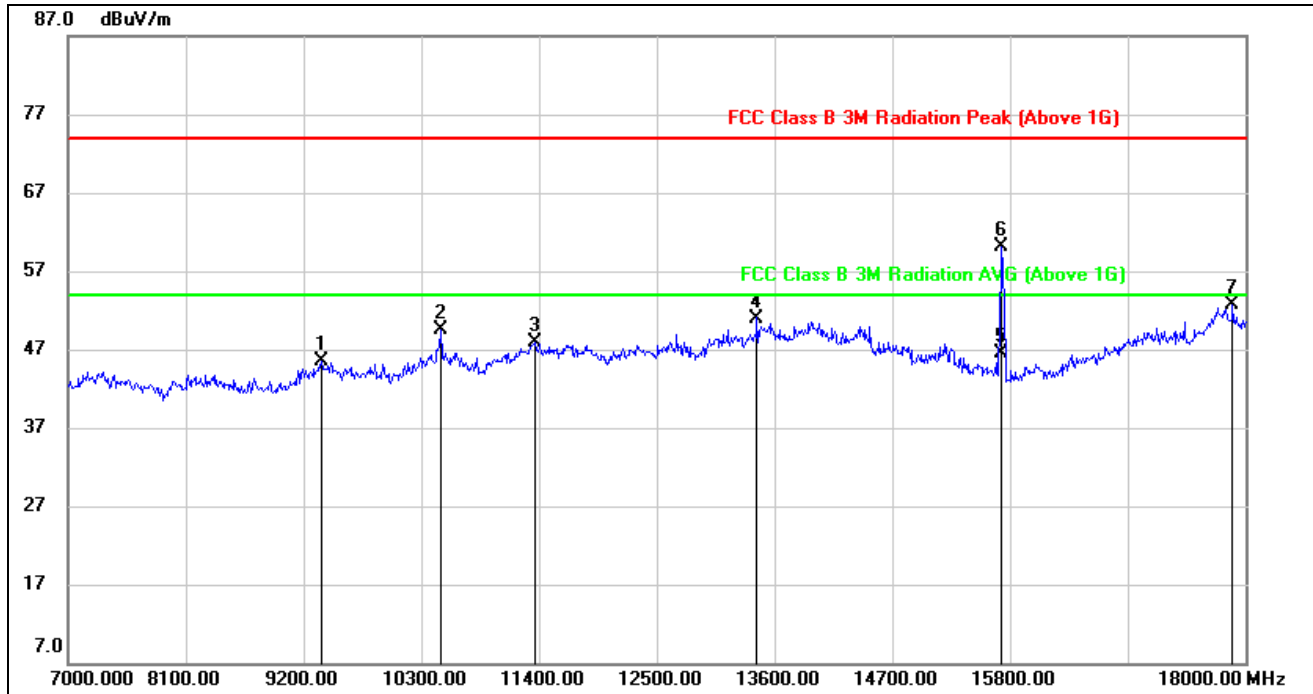


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1624.000	51.44	-12.50	38.94	74.00	-35.06	peak
2	2290.000	44.84	-8.20	36.64	74.00	-37.36	peak
3	4510.000	41.20	-2.14	39.06	74.00	-34.94	peak
4	5074.000	42.75	-0.44	42.31	74.00	-31.69	peak
5	5392.000	40.73	0.27	41.00	74.00	-33.00	peak
6	6586.000	37.47	4.22	41.69	74.00	-32.31	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### 7-18GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9365.000	36.04	9.51	45.55	74.00	-28.45	peak
2	10487.000	37.55	11.95	49.50	74.00	-24.50	peak
3	11367.000	34.17	13.64	47.81	74.00	-26.19	peak
4	13435.000	33.06	17.94	51.00	74.00	-23.00	peak
5	15720.000	30.86	15.73	46.59	54.00	-7.41	AVG
6	15723.000	44.35	15.75	60.10	74.00	-13.90	peak
7	17879.000	28.54	24.10	52.64	74.00	-21.36	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.

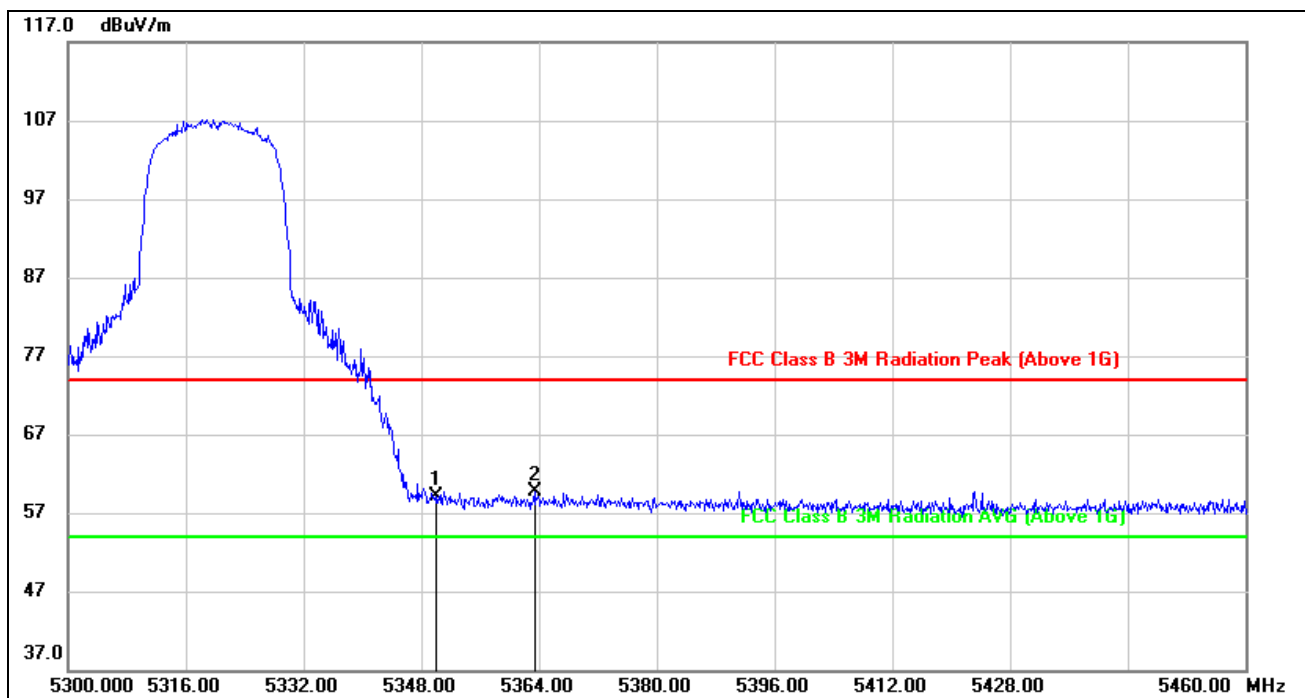




## 7.2.2. UNII-2A BAND

### RESTRICTED BANDEDGE HIGH CHANNEL

#### HORIZONTAL RESULTS PEAK

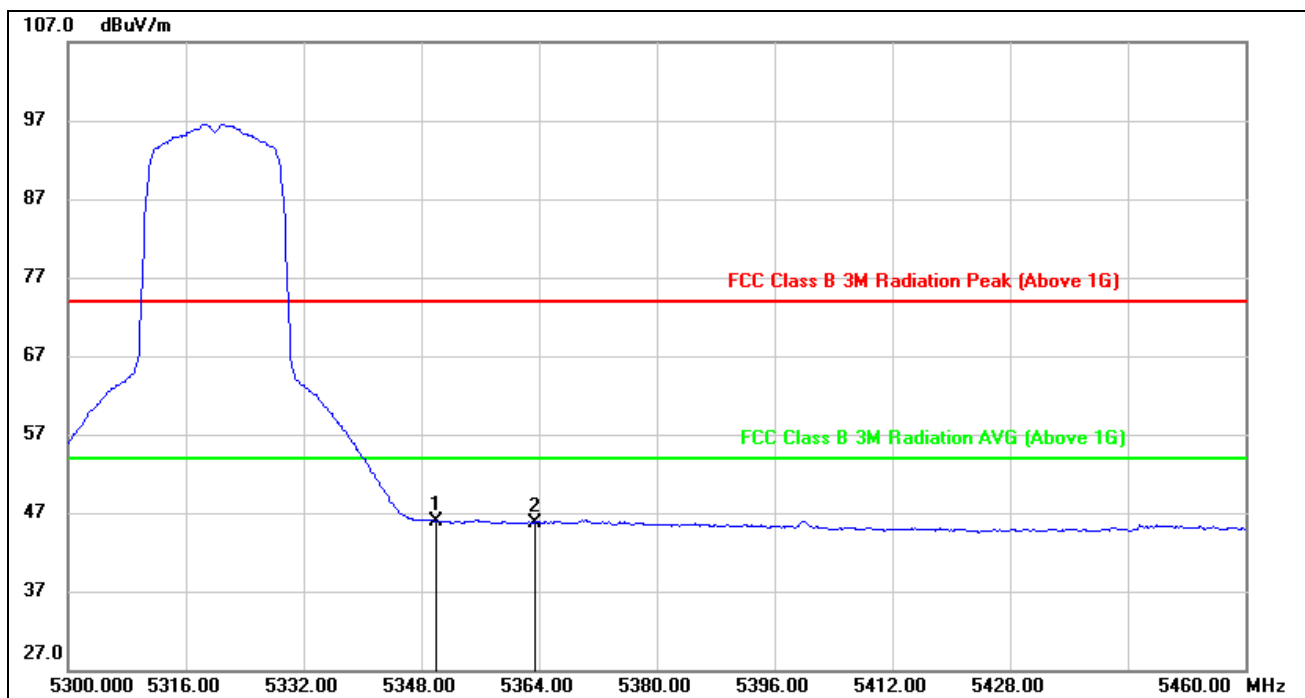


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	18.70	40.44	59.14	74.00	-14.86	peak
2	5363.360	19.22	40.55	59.77	74.00	-14.23	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



### AVG

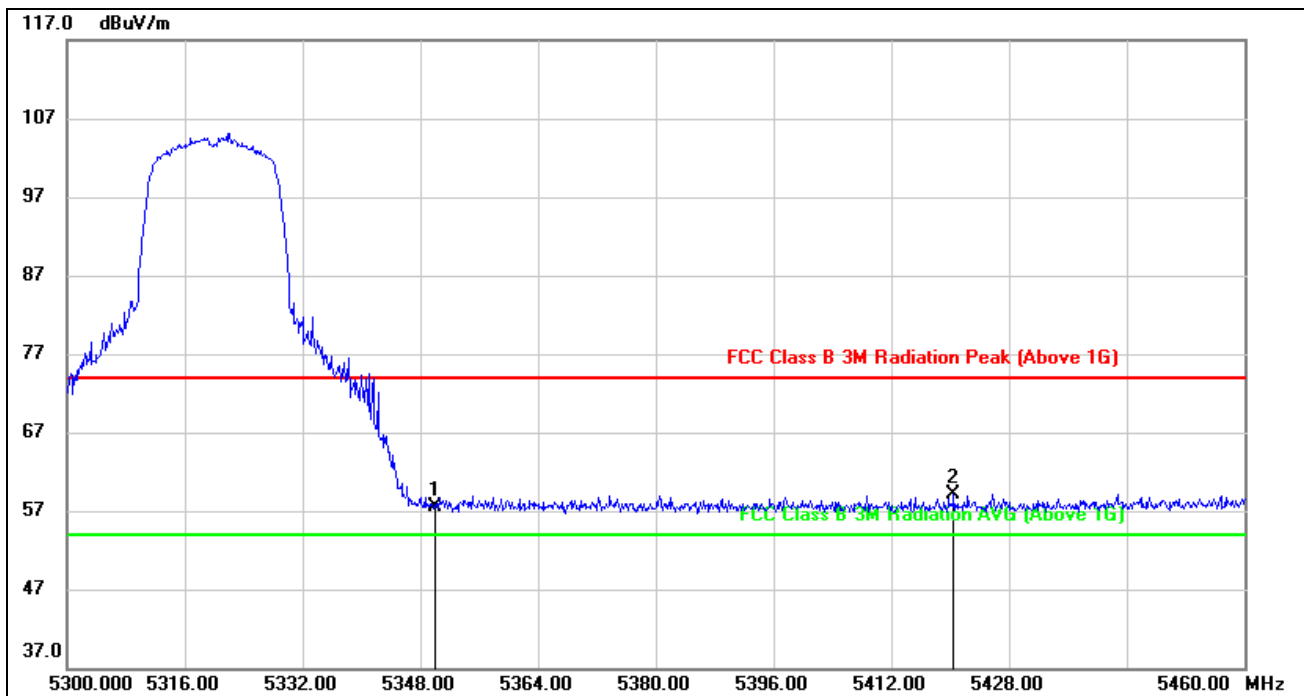


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	5.55	40.44	45.99	54.00	-8.01	AVG
2	5363.360	5.23	40.55	45.78	54.00	-8.22	AVG

Note: 1. Measurement = Reading Level + Correct Factor.  
2. AVG:  $VBW=1/Ton$  where: ton is transmit duration.  
3. For duty cycle, please refer to clause 6.1.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



**VERTICAL RESULTS**  
**PEAK**

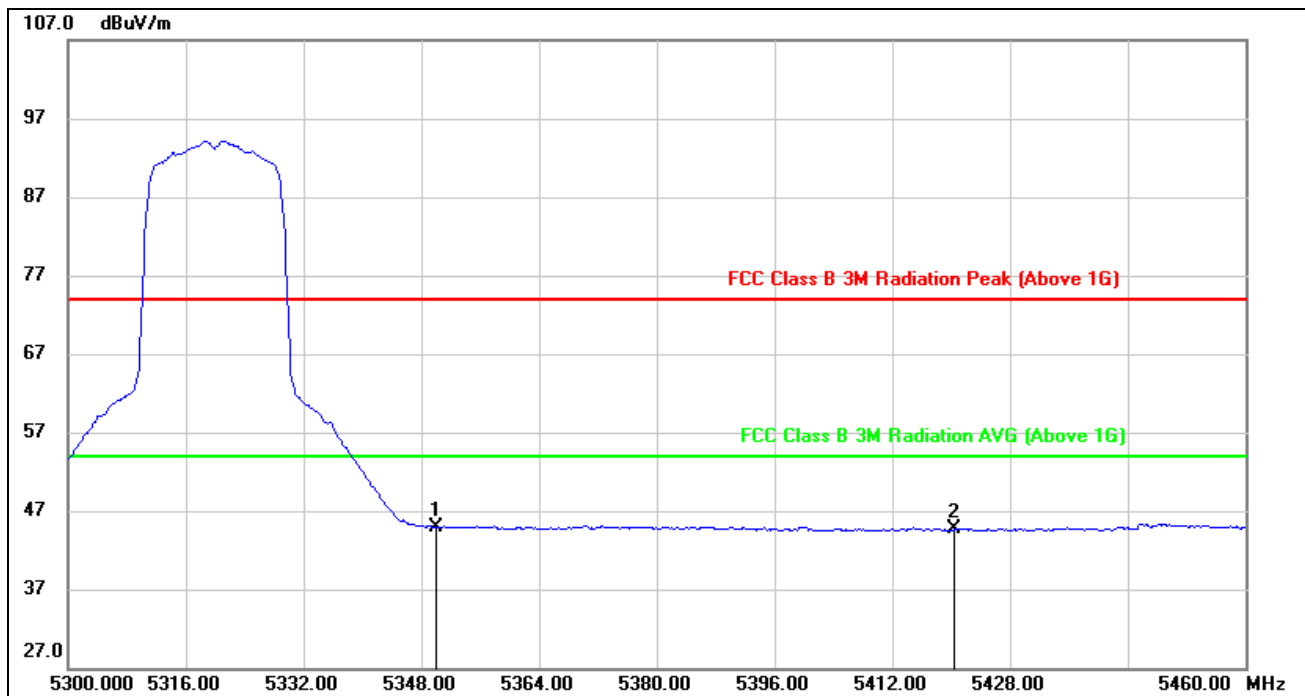


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	17.00	40.54	57.54	74.00	-16.46	peak
2	5420.480	18.14	41.00	59.14	74.00	-14.86	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



### AVG



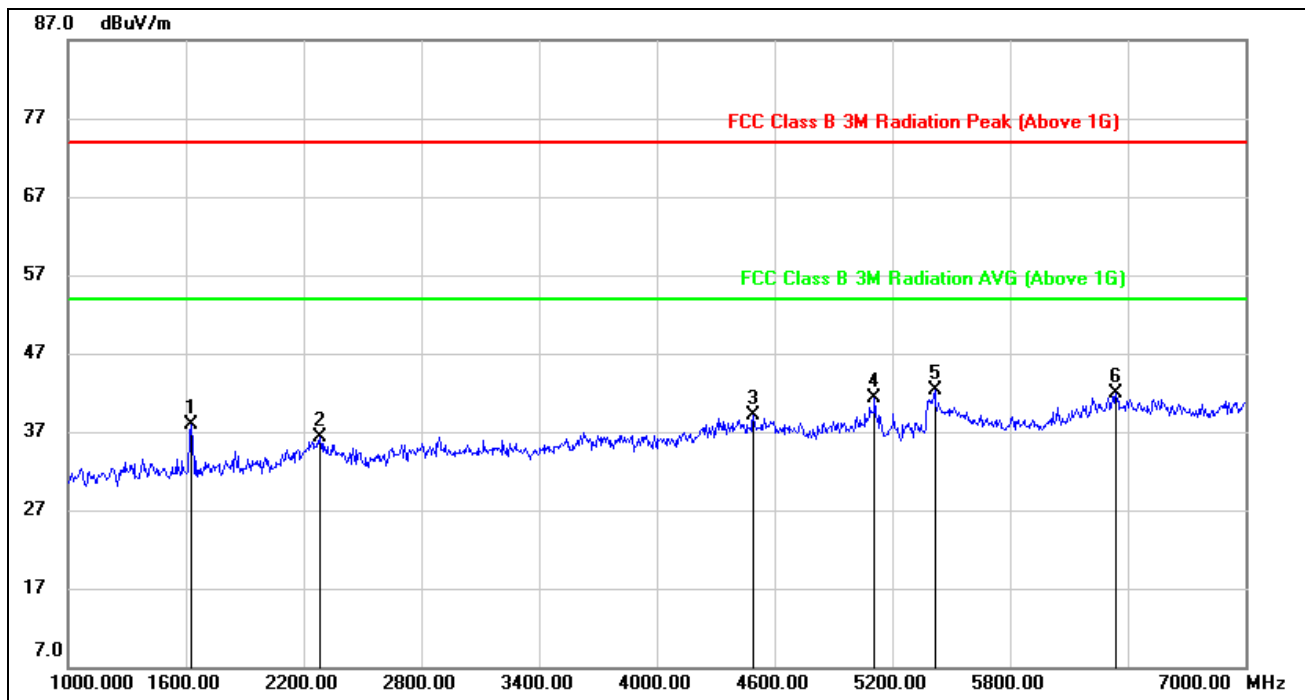
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	4.34	40.54	44.88	54.00	-9.12	AVG
2	5420.480	3.66	41.00	44.66	54.00	-9.34	AVG

Note: 1. Measurement = Reading Level + Correct Factor.  
2. AVG:  $VBW=1/Ton$  where: ton is transmit duration.  
3. For duty cycle, please refer to clause 6.1.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



## HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL

### HORIZONTAL RESULTS 1-7GHz

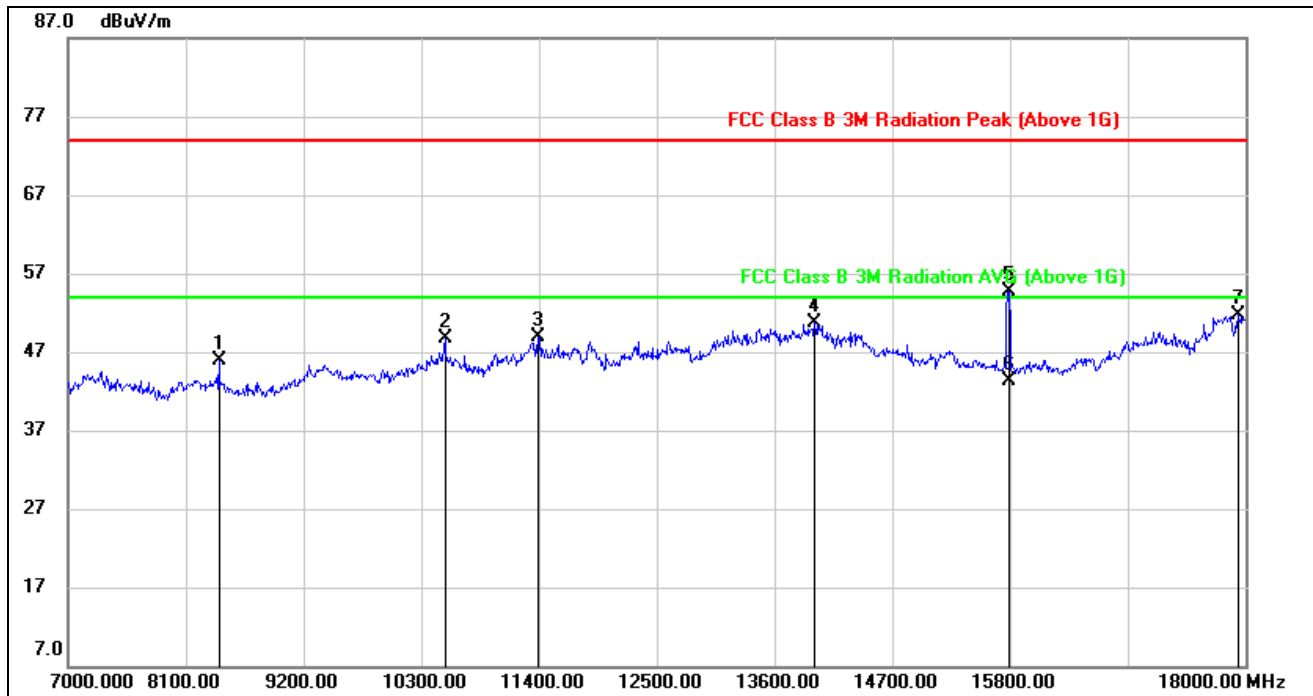


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1624.000	50.47	-12.50	37.97	74.00	-36.03	peak
2	2284.000	44.58	-8.37	36.21	74.00	-37.79	peak
3	4492.000	41.40	-2.28	39.12	74.00	-34.88	peak
4	5110.000	41.75	-0.44	41.31	74.00	-32.69	peak
5	5416.000	41.94	0.43	42.37	74.00	-31.63	peak
6	6340.000	38.60	3.25	41.85	74.00	-32.15	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### HORIZONTAL RESULTS 7-18GHz

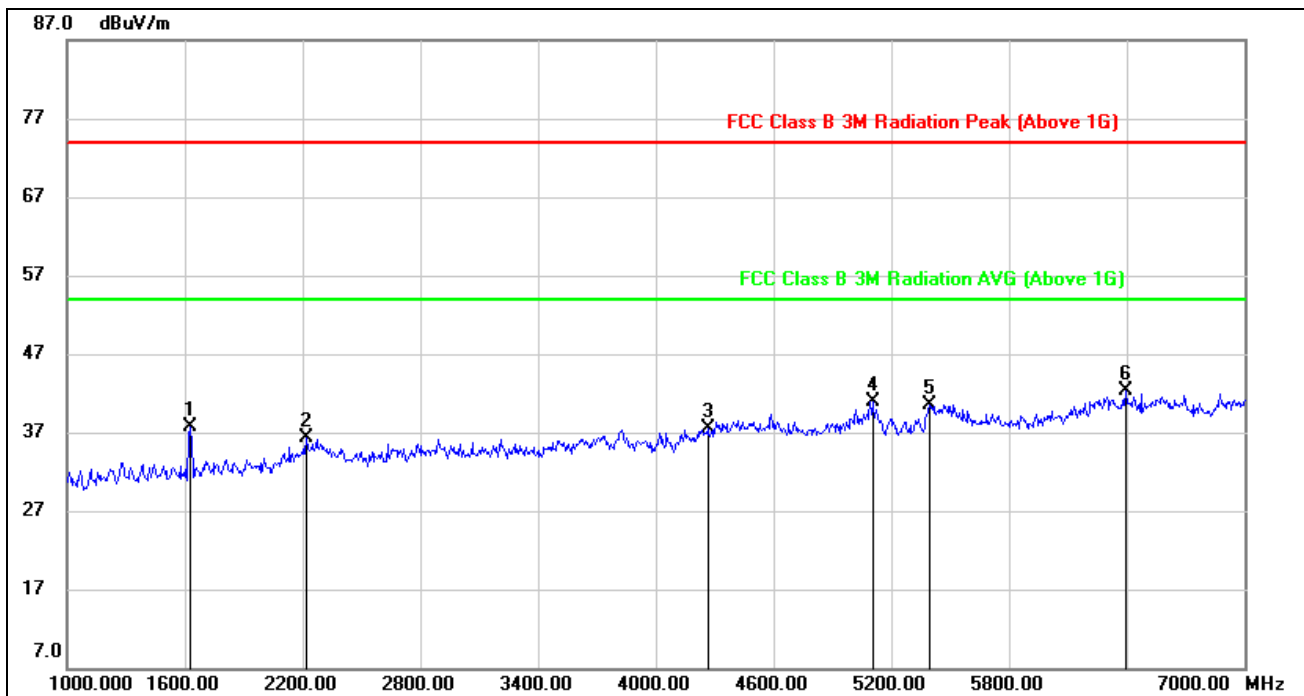


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8408.000	39.17	6.79	45.96	74.00	-28.04	peak
2	10520.000	36.84	11.94	48.78	74.00	-25.22	peak
3	11389.000	35.30	13.59	48.89	74.00	-25.11	peak
4	13974.000	32.19	18.51	50.70	74.00	-23.30	peak
5	15780.000	39.14	15.58	54.72	74.00	-19.28	peak
6	15780.000	27.72	15.58	43.30	54.00	-10.70	AVG
7	17934.000	27.19	24.54	51.73	74.00	-22.27	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



**VERTICAL RESULTS**  
**1-7GHz**

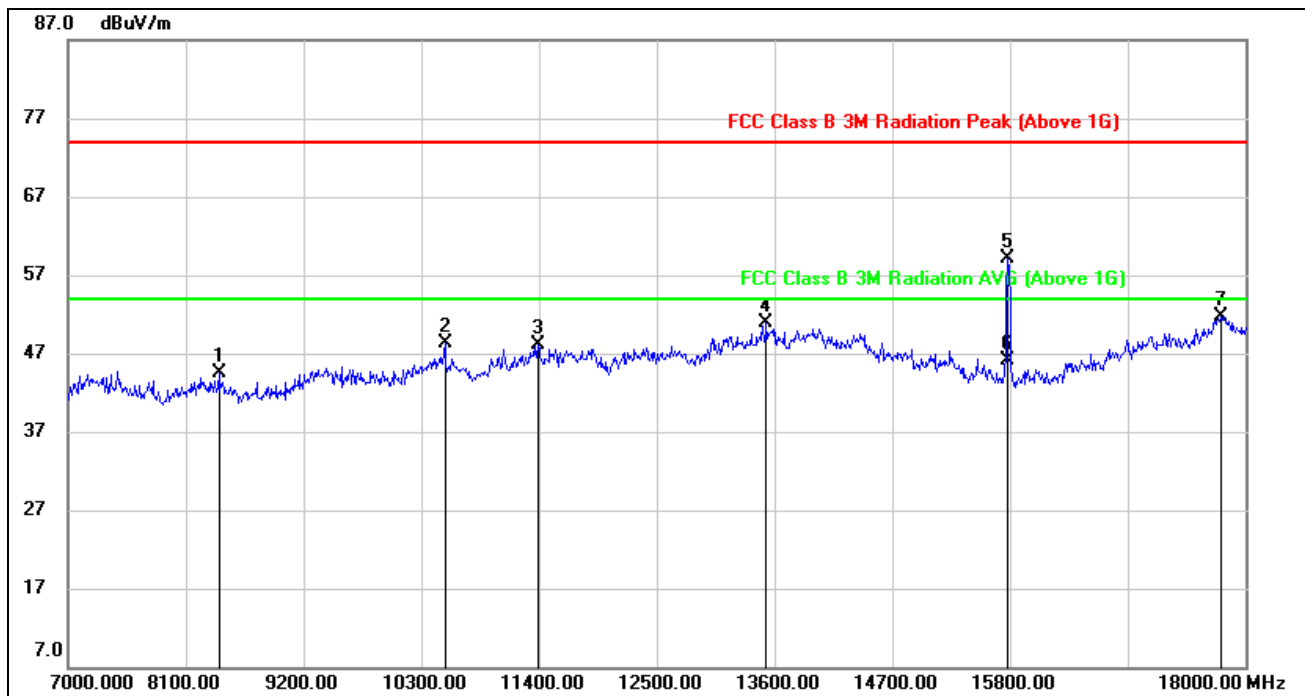


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1624.000	50.21	-12.50	37.71	74.00	-36.29	peak
2	2218.000	44.92	-8.70	36.22	74.00	-37.78	peak
3	4264.000	40.80	-3.25	37.55	74.00	-36.45	peak
4	5104.000	41.26	-0.27	40.99	74.00	-33.01	peak
5	5392.000	40.30	0.27	40.57	74.00	-33.43	peak
6	6394.000	38.90	3.34	42.24	74.00	-31.76	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### 7-18GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8408.000	37.56	6.87	44.43	74.00	-29.57	peak
2	10520.000	36.32	11.96	48.28	74.00	-25.72	peak
3	11389.000	34.45	13.64	48.09	74.00	-25.91	peak
4	13523.000	32.18	18.72	50.90	74.00	-23.10	peak
5	15780.000	43.37	15.82	59.19	74.00	-14.81	peak
6	15780.000	30.29	15.82	46.11	54.00	-7.89	AVG
7	17769.000	27.50	24.23	51.73	74.00	-22.27	peak

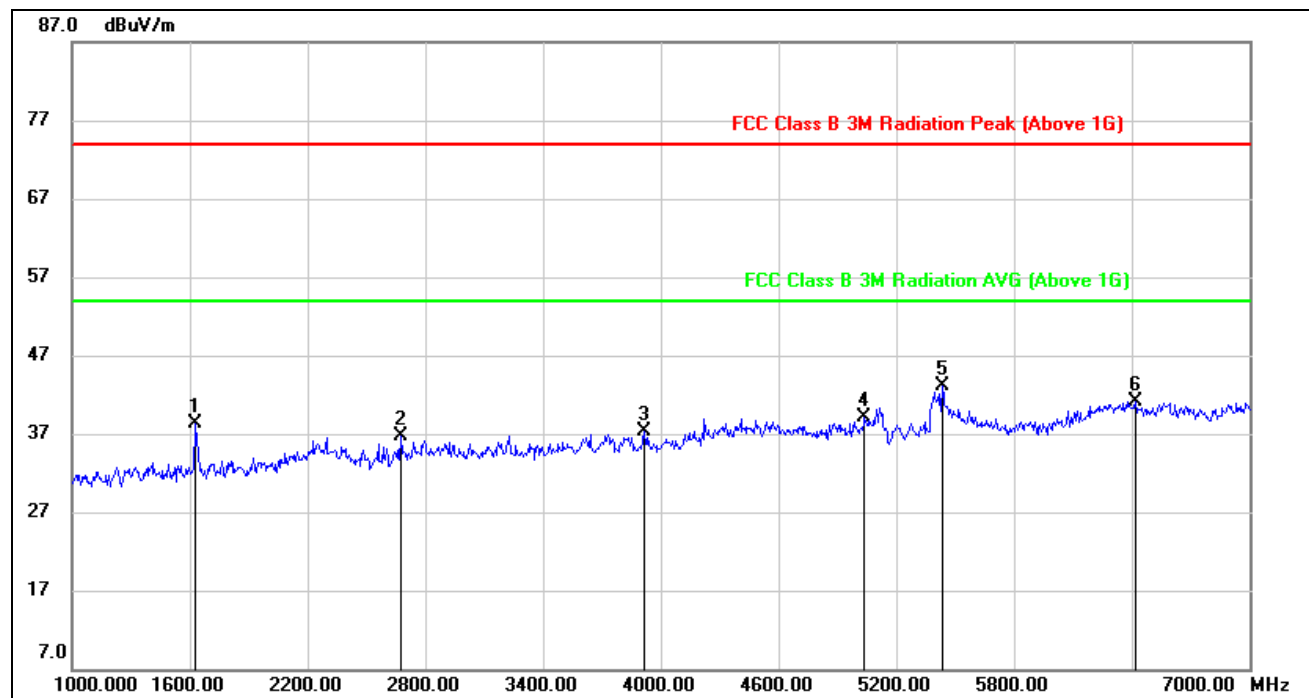
Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.





## HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL

### HORIZONTAL RESULTS 1-7GHz

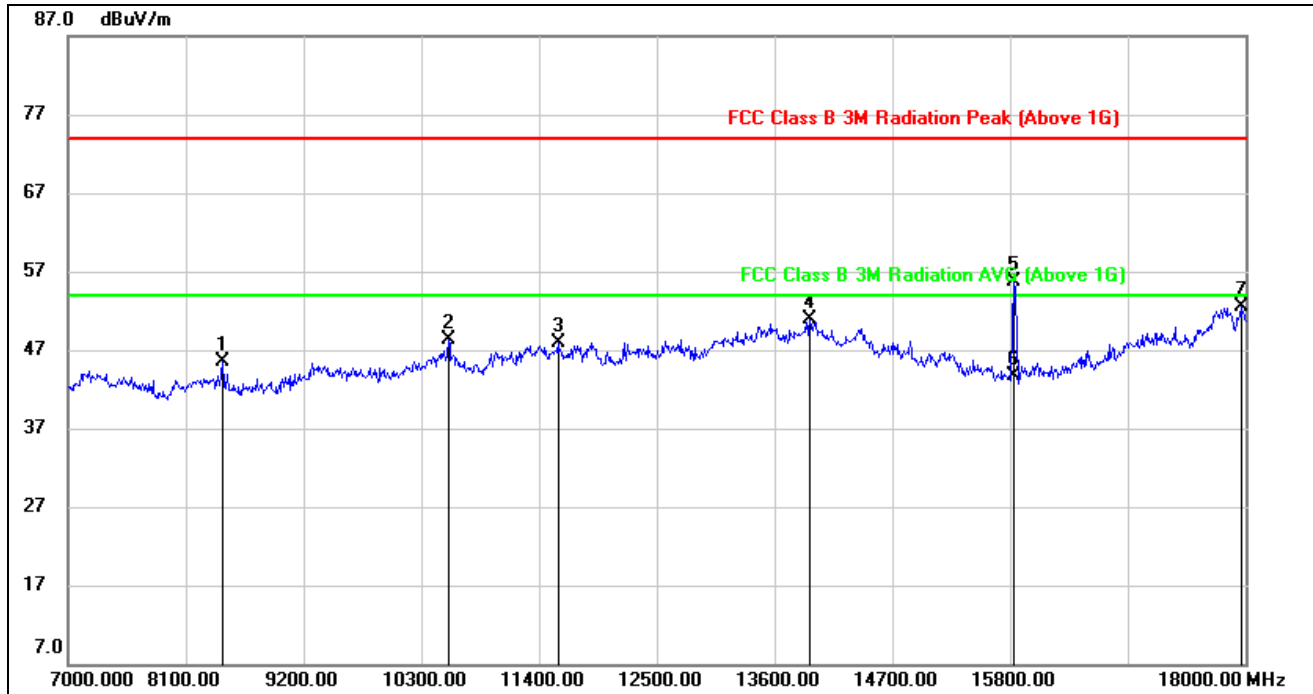


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1630.000	50.74	-12.46	38.28	74.00	-35.72	peak
2	2674.000	45.12	-8.43	36.69	74.00	-37.31	peak
3	3916.000	41.95	-4.62	37.33	74.00	-36.67	peak
4	5038.000	39.88	-0.72	39.16	74.00	-34.84	peak
5	5434.000	42.56	0.56	43.12	74.00	-30.88	peak
6	6418.000	37.85	3.26	41.11	74.00	-32.89	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### HORIZONTAL RESULTS 7-18GHz

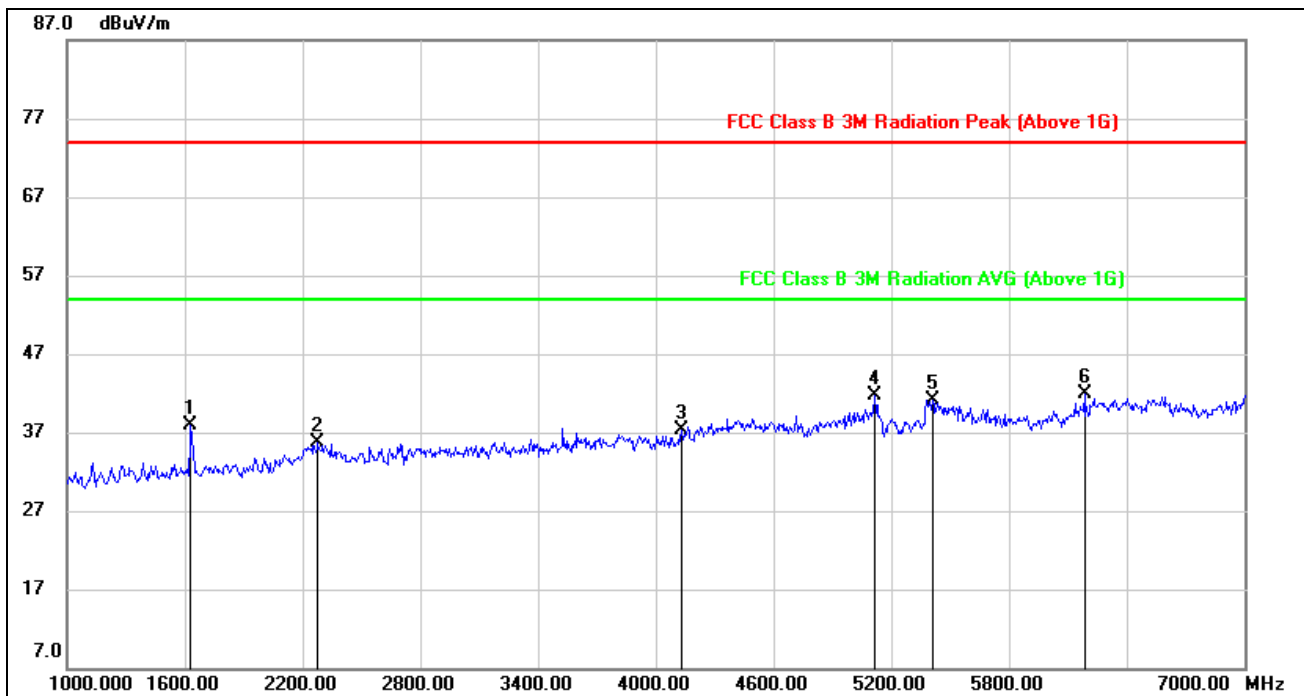


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8441.000	38.72	6.87	45.59	74.00	-28.41	peak
2	10553.000	36.31	11.97	48.28	74.00	-25.72	peak
3	11576.000	33.83	14.17	48.00	74.00	-26.00	peak
4	13930.000	32.30	18.55	50.85	74.00	-23.15	peak
5	15840.000	40.29	15.39	55.68	74.00	-18.32	peak
6	15840.000	28.23	15.39	43.62	54.00	-10.38	AVG
7	17956.000	27.73	24.80	52.53	74.00	-21.47	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



**VERTICAL RESULTS**  
**1-7GHz**

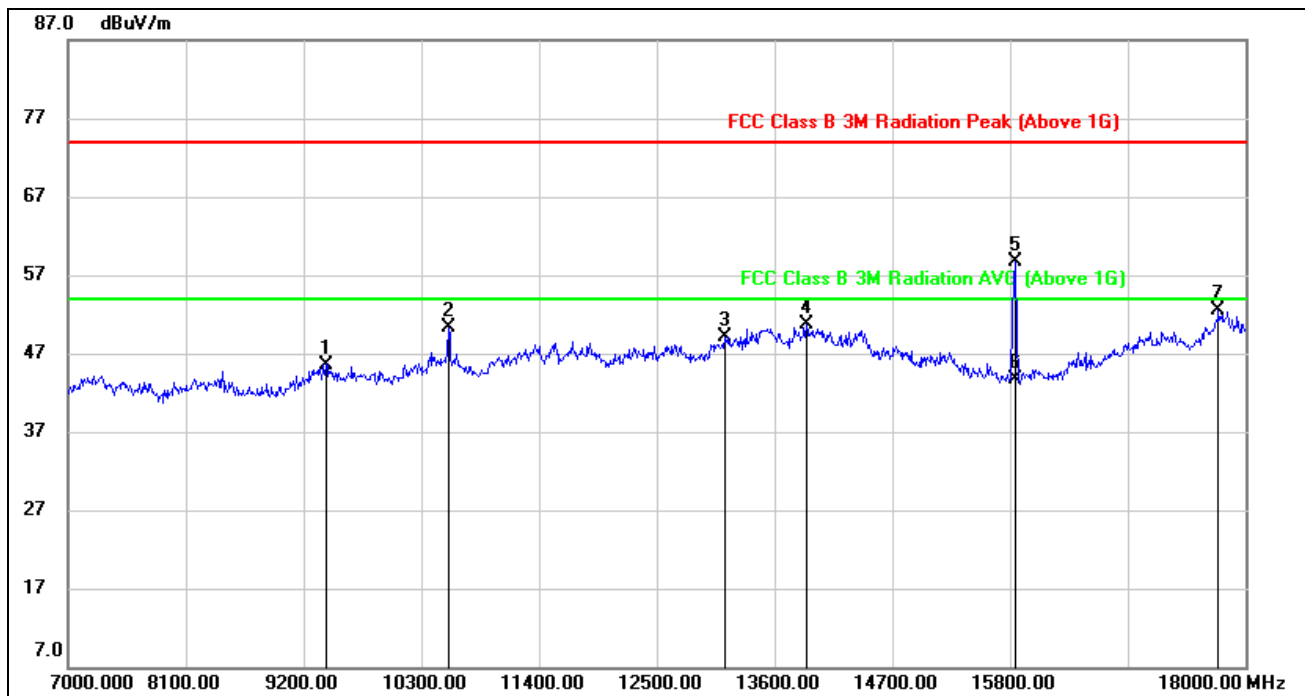


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1630.000	50.34	-12.46	37.88	74.00	-36.12	peak
2	2278.000	43.95	-8.25	35.70	74.00	-38.30	peak
3	4132.000	41.15	-3.88	37.27	74.00	-36.73	peak
4	5116.000	41.87	-0.21	41.66	74.00	-32.34	peak
5	5410.000	40.72	0.39	41.11	74.00	-32.89	peak
6	6184.000	39.13	2.76	41.89	74.00	-32.11	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### 7-18GHz



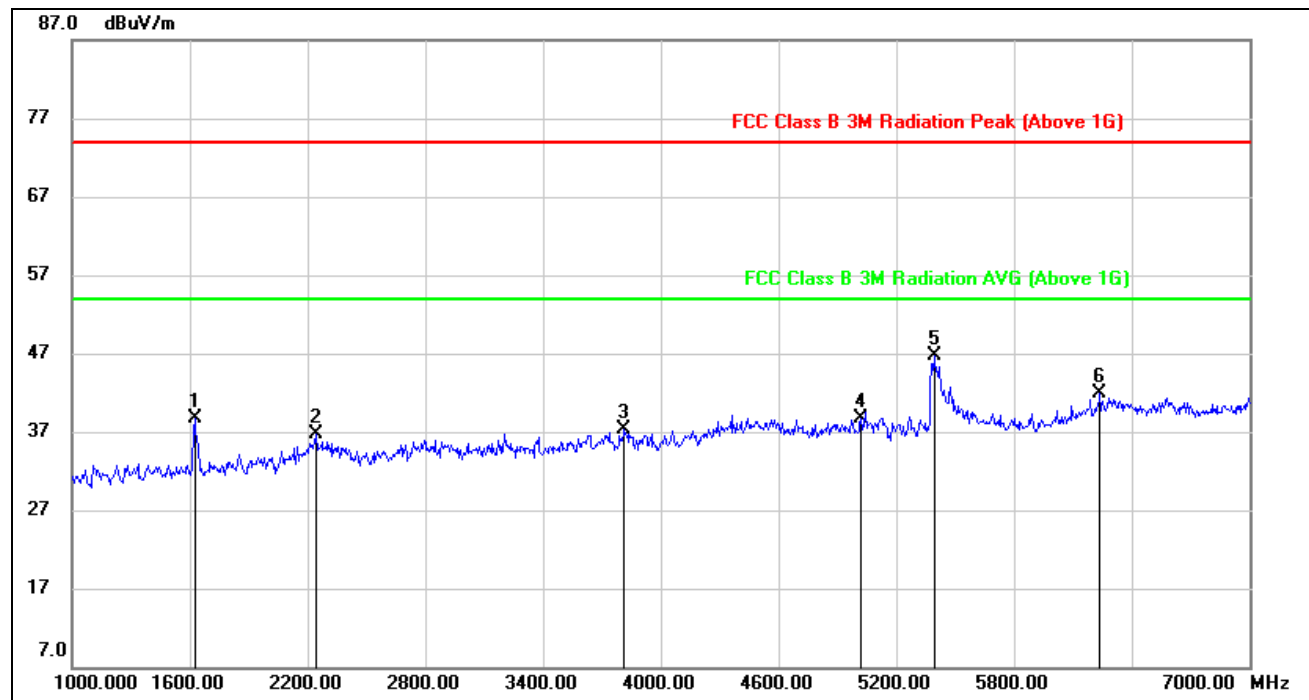
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9409.000	36.03	9.57	45.60	74.00	-28.40	peak
2	10553.000	38.35	11.89	50.24	74.00	-23.76	peak
3	13138.000	32.29	16.76	49.05	74.00	-24.95	peak
4	13897.000	31.87	18.74	50.61	74.00	-23.39	peak
5	15840.000	43.29	15.43	58.72	74.00	-15.28	peak
6	15840.000	28.21	15.43	43.64	54.00	-10.36	AVG
7	17747.000	28.63	23.94	52.57	74.00	-21.43	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



## HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL

### HORIZONTAL RESULTS 1-7GHz

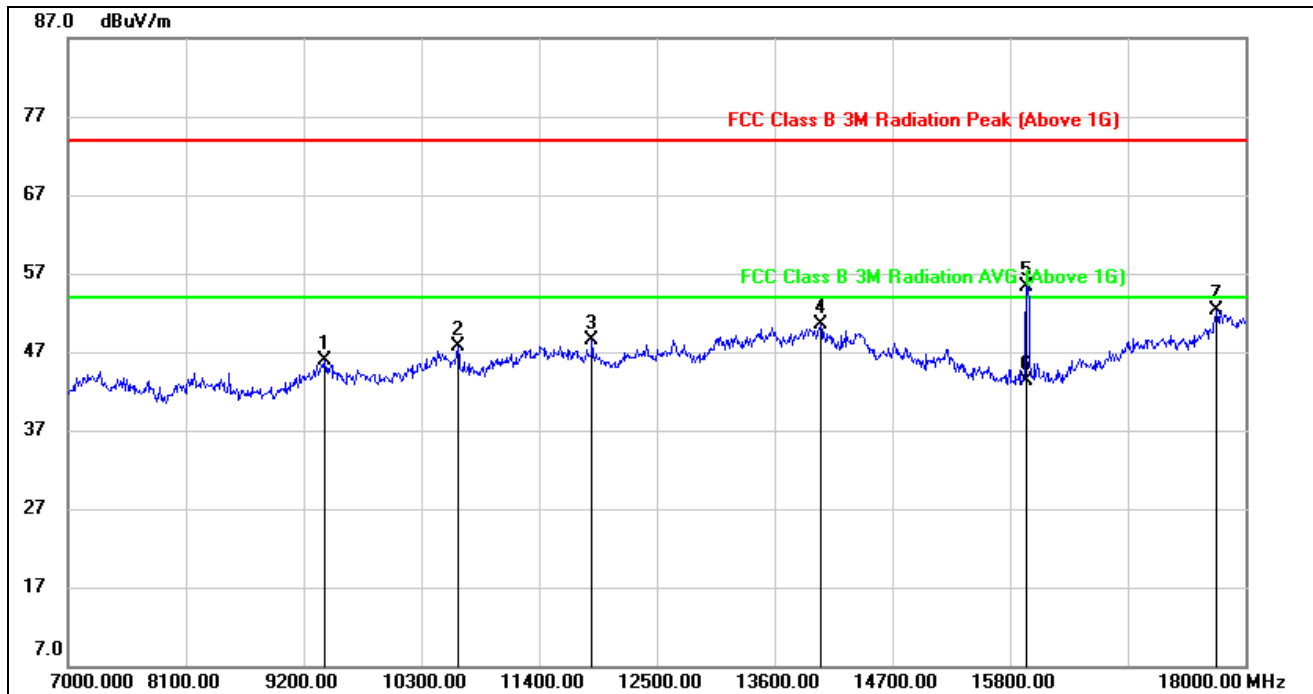


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1624.000	51.23	-12.50	38.73	74.00	-35.27	peak
2	2242.000	45.09	-8.45	36.64	74.00	-37.36	peak
3	3814.000	42.11	-4.80	37.31	74.00	-36.69	peak
4	5020.000	39.55	-0.80	38.75	74.00	-35.25	peak
5	5392.000	46.39	0.25	46.64	74.00	-27.36	peak
6	6238.000	38.95	2.96	41.91	74.00	-32.09	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### HORIZONTAL RESULTS 7-18GHz

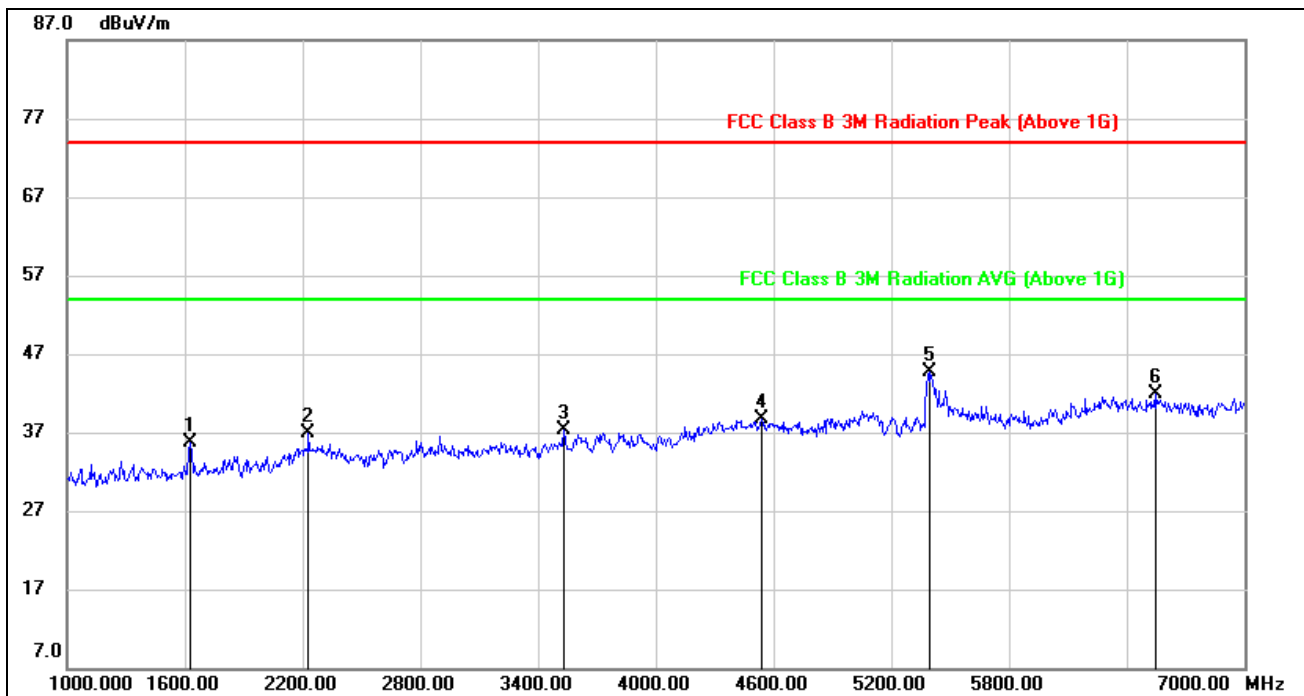


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9398.000	36.35	9.55	45.90	74.00	-28.10	peak
2	10641.000	35.79	11.90	47.69	74.00	-26.31	peak
3	11895.000	33.40	15.15	48.55	74.00	-25.45	peak
4	14029.000	32.02	18.47	50.49	74.00	-23.51	peak
5	15960.000	40.29	15.01	55.30	74.00	-18.70	peak
6	15960.000	28.20	15.01	43.21	54.00	-10.79	AVG
7	17725.000	28.86	23.50	52.36	74.00	-21.64	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



**VERTICAL RESULTS**  
**1-7GHz**

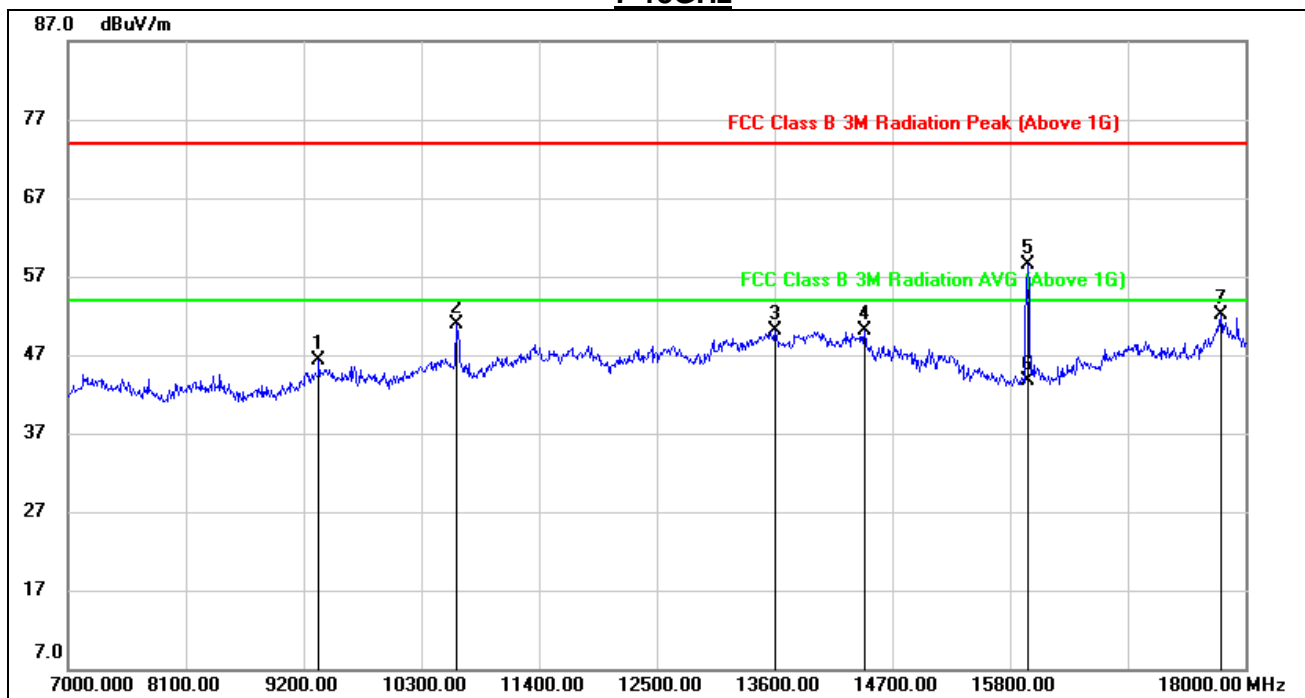


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1624.000	48.24	-12.50	35.74	74.00	-38.26	peak
2	2230.000	45.57	-8.57	37.00	74.00	-37.00	peak
3	3532.000	43.07	-5.83	37.24	74.00	-36.76	peak
4	4540.000	40.73	-2.08	38.65	74.00	-35.35	peak
5	5392.000	44.43	0.27	44.70	74.00	-29.30	peak
6	6544.000	38.04	3.83	41.87	74.00	-32.13	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### 7-18GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9343.000	36.94	9.45	46.39	74.00	-27.61	peak
2	10630.000	38.77	12.06	50.83	74.00	-23.17	peak
3	13600.000	31.74	18.34	50.08	74.00	-23.92	peak
4	14436.000	32.34	17.82	50.16	74.00	-23.84	peak
5	15960.000	43.31	15.19	58.50	74.00	-15.50	peak
6	15960.000	28.50	15.19	43.69	54.00	-10.31	AVG
7	17769.000	27.93	24.23	52.16	74.00	-21.84	peak

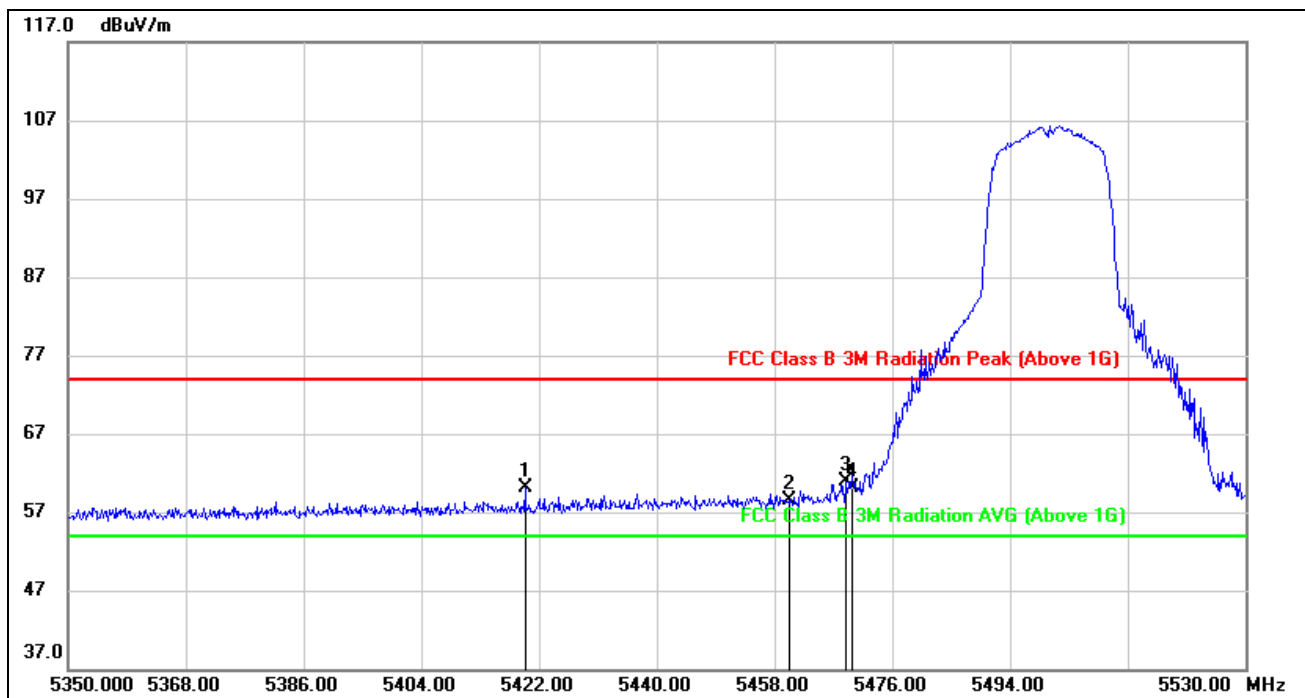
Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.





7.2.3. UNII-2C BAND  
**RESTRICTED BANDEGE LOW CHANNEL**

**HORIZONTAL RESULTS**  
**PEAK**

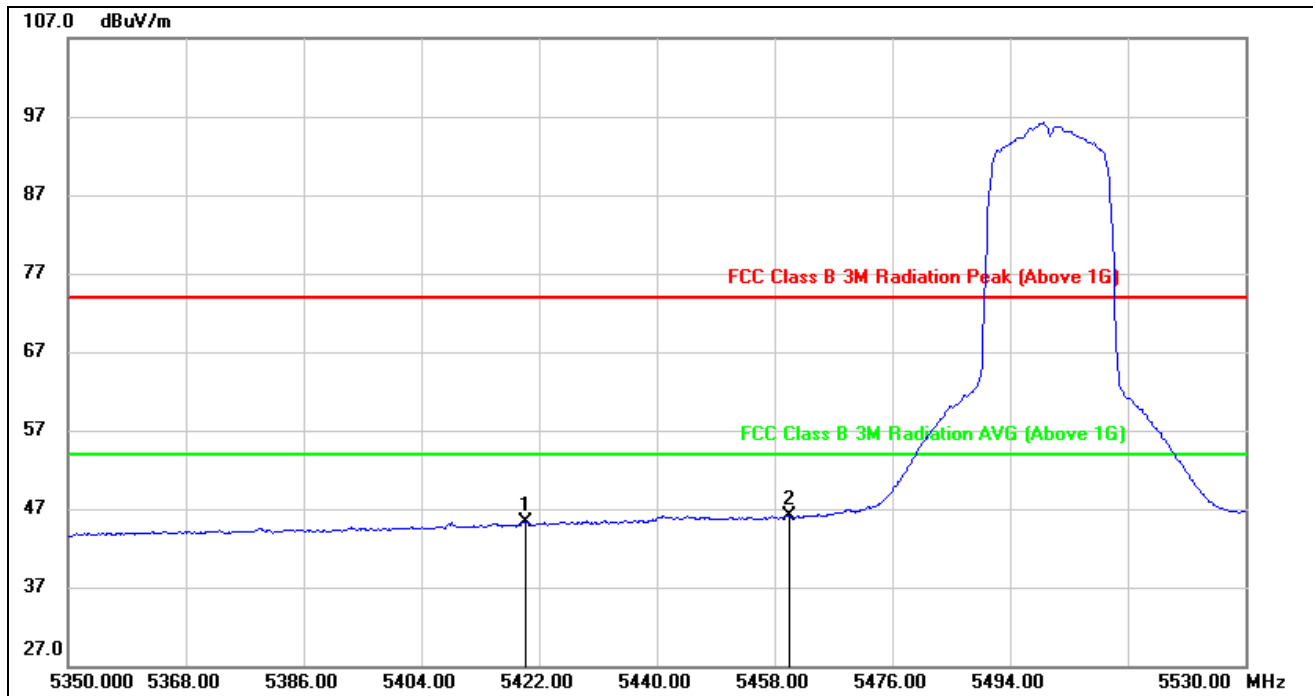


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5419.840	19.10	40.99	60.09	74.00	-13.91	peak
2	5460.000	17.28	41.26	58.54	74.00	-15.46	peak
3	5468.980	19.65	41.33	60.98	74.00	-13.02	peak
4	5470.000	18.71	41.33	60.04	74.00	-13.96	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4.\*indicates frequency out of the restricted bands  
5. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



### AVG

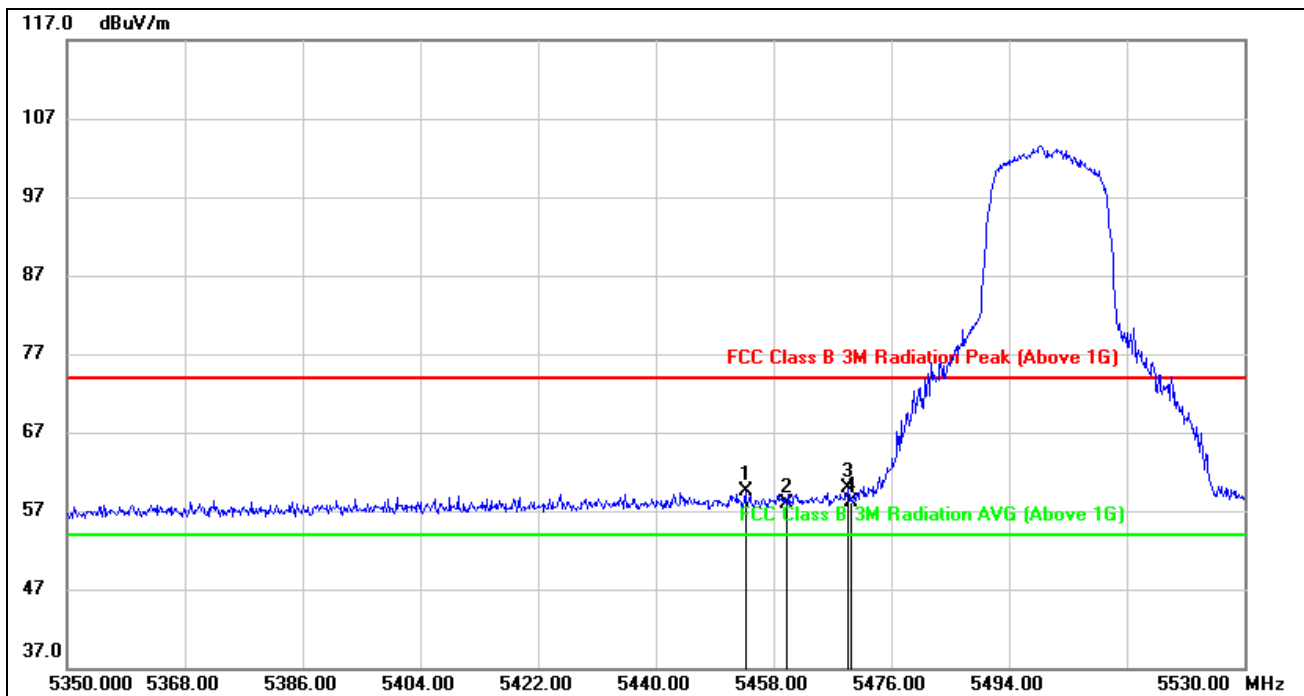


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5419.840	4.39	40.99	45.38	54.00	-8.62	AVG
2	5460.000	4.91	41.26	46.17	54.00	-7.83	AVG

Note: 1. Measurement = Reading Level + Correct Factor.  
2. AVG:  $VBW=1/Ton$  where: ton is transmit duration.  
3. For duty cycle, please refer to clause 6.1.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



**VERTICAL RESULTS**  
**PEAK**

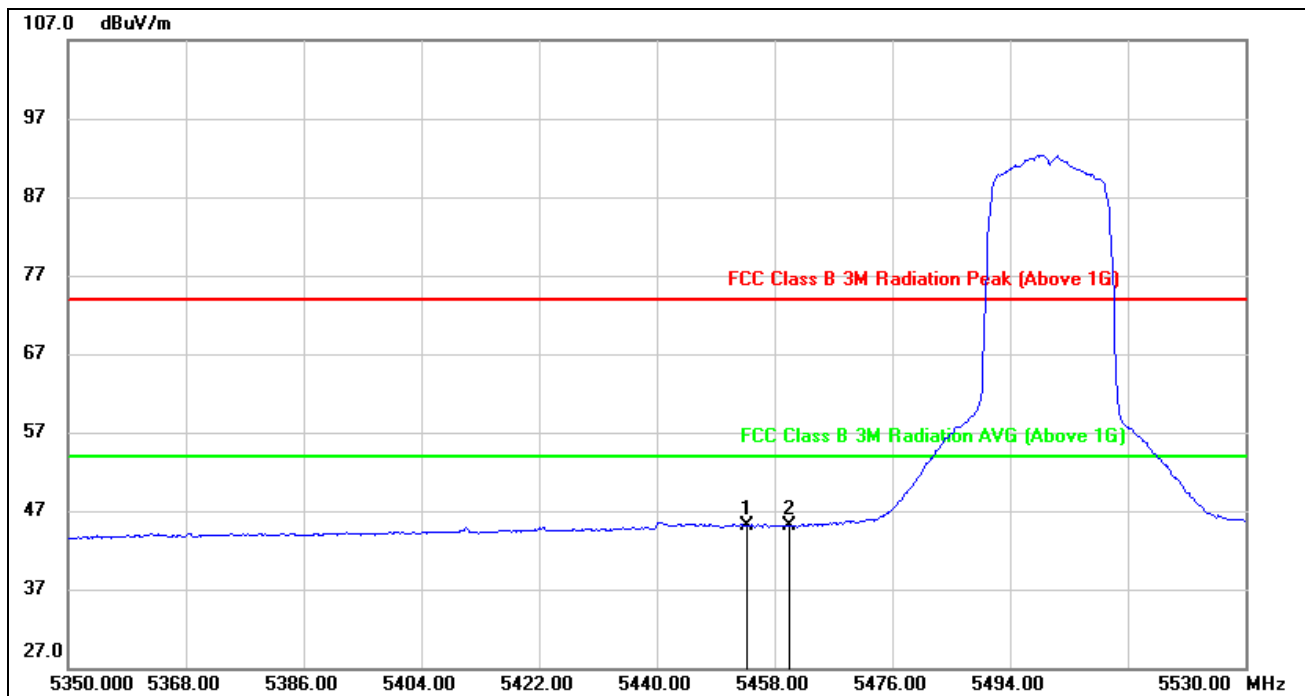


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5453.680	18.26	41.21	59.47	74.00	-14.53	peak
2	5460.000	16.66	41.26	57.92	74.00	-16.08	peak
3	5469.340	18.53	41.33	59.86	74.00	-14.14	peak
4	5470.000	16.82	41.33	58.15	74.00	-15.85	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4.\*indicates frequency out of the restricted bands  
5. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



### AVG



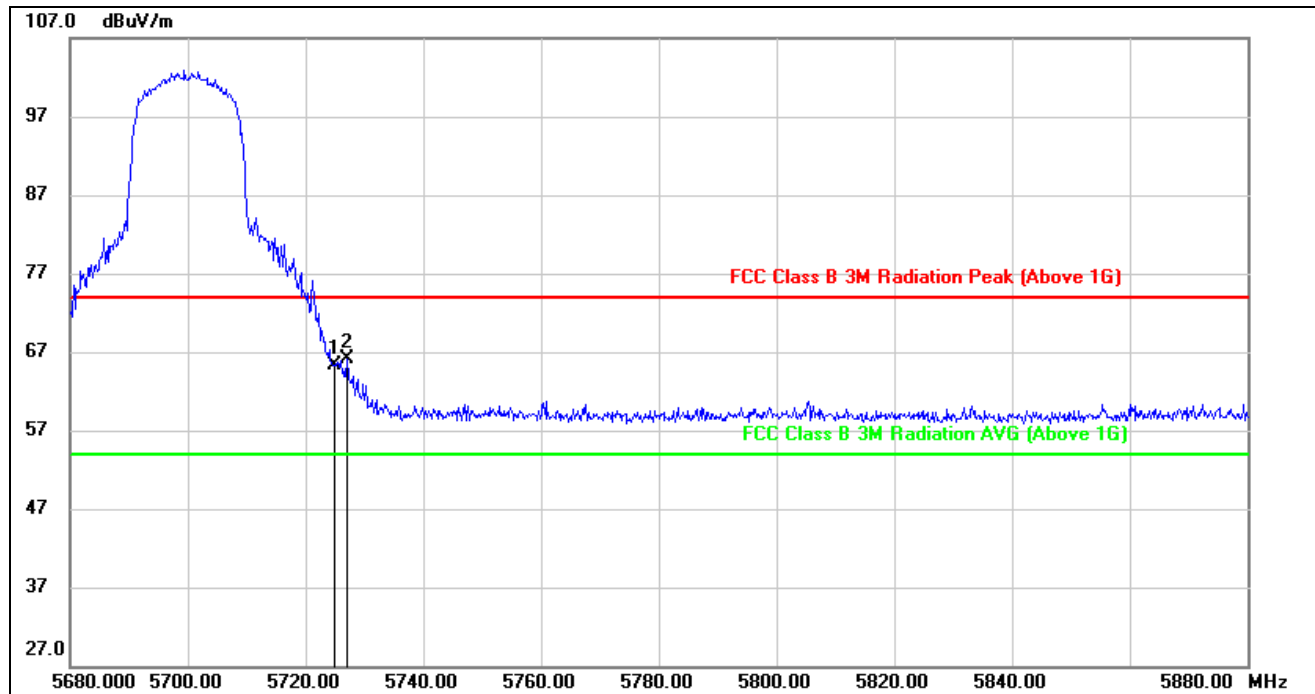
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5453.680	3.85	41.21	45.06	54.00	-8.94	AVG
2	5460.000	3.85	41.26	45.11	54.00	-8.89	AVG

Note: 1. Measurement = Reading Level + Correct Factor.  
2. AVG:  $VBW=1/Ton$  where: ton is transmit duration.  
3. For duty cycle, please refer to clause 6.1.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



## RESTRICTED BANDEDGE HIGH CHANNEL

### HORIZONTAL RESULTS

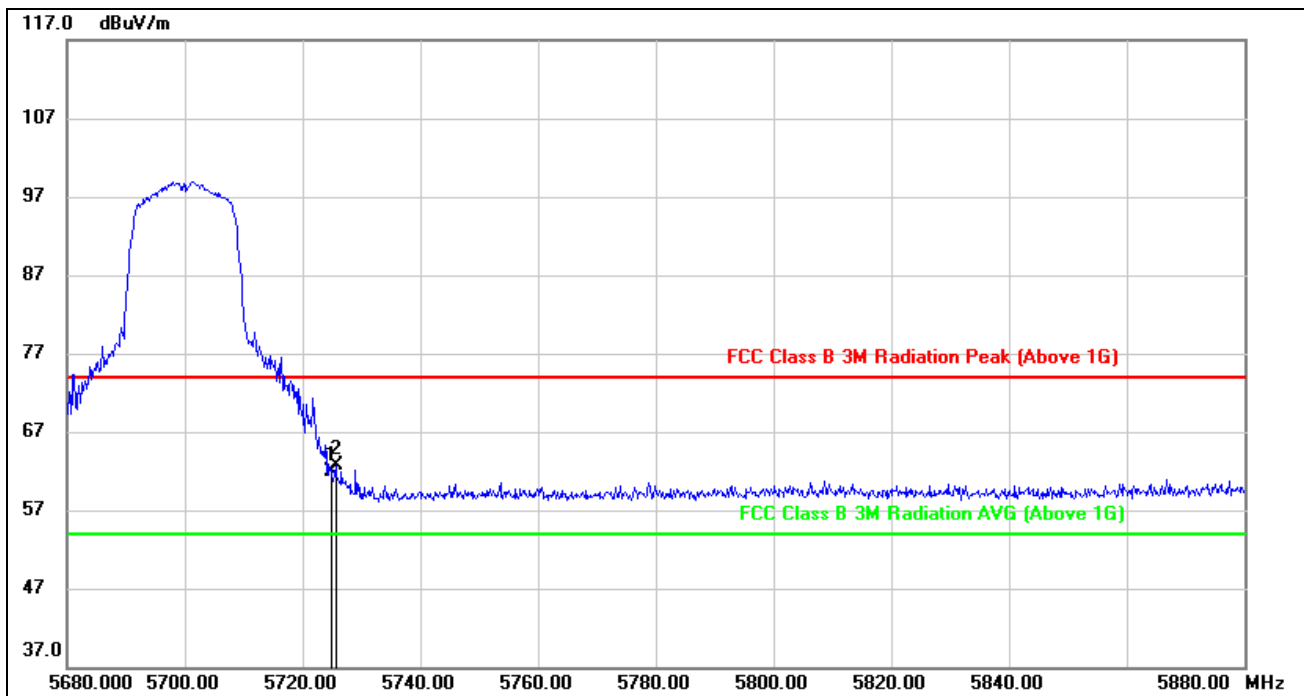


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	24.00	41.39	65.39	68.30	-2.91	peak
2	5727.000	24.67	41.39	66.06	68.30	-2.04	peak

- Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. The chart shows Limits 74dBuV for Peak, 54dBuV for AVG, but Unwanted Emissions that fall Outside of the Restricted Bands is 68.3dBuV for Peak, No limit for AVG. All test results are in compliance with the limits.  
5. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



### VERTICAL RESULTS



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	20.37	41.49	61.86	68.30	-6.44	peak
2	5725.600	21.17	41.49	62.66	68.30	-5.64	peak

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

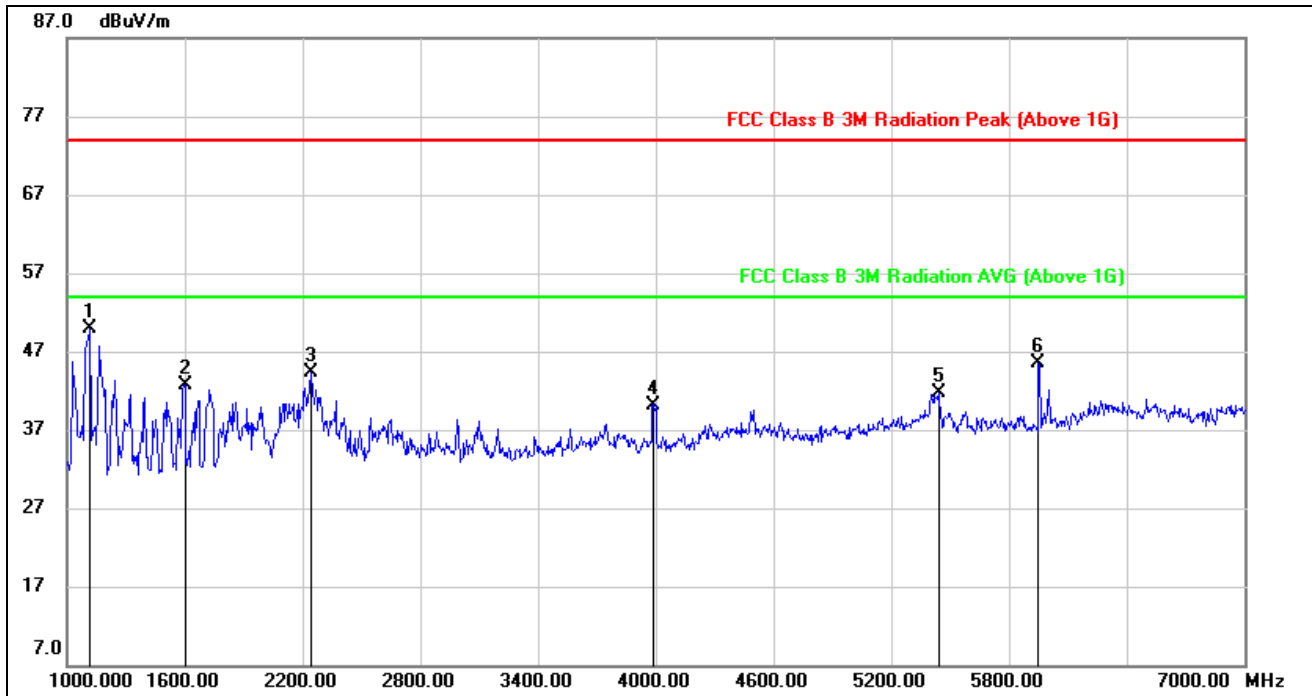
4. The chart shows Limits 74dBuV for Peak, 54dBuV for AVG, but Unwanted Emissions that fall Outside of the Restricted Bands is 68.3dBuV for Peak, No limit for AVG. All test results are in compliance with the limits.

5. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



## HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL

### HORIZONTAL RESULTS 1-7GHz

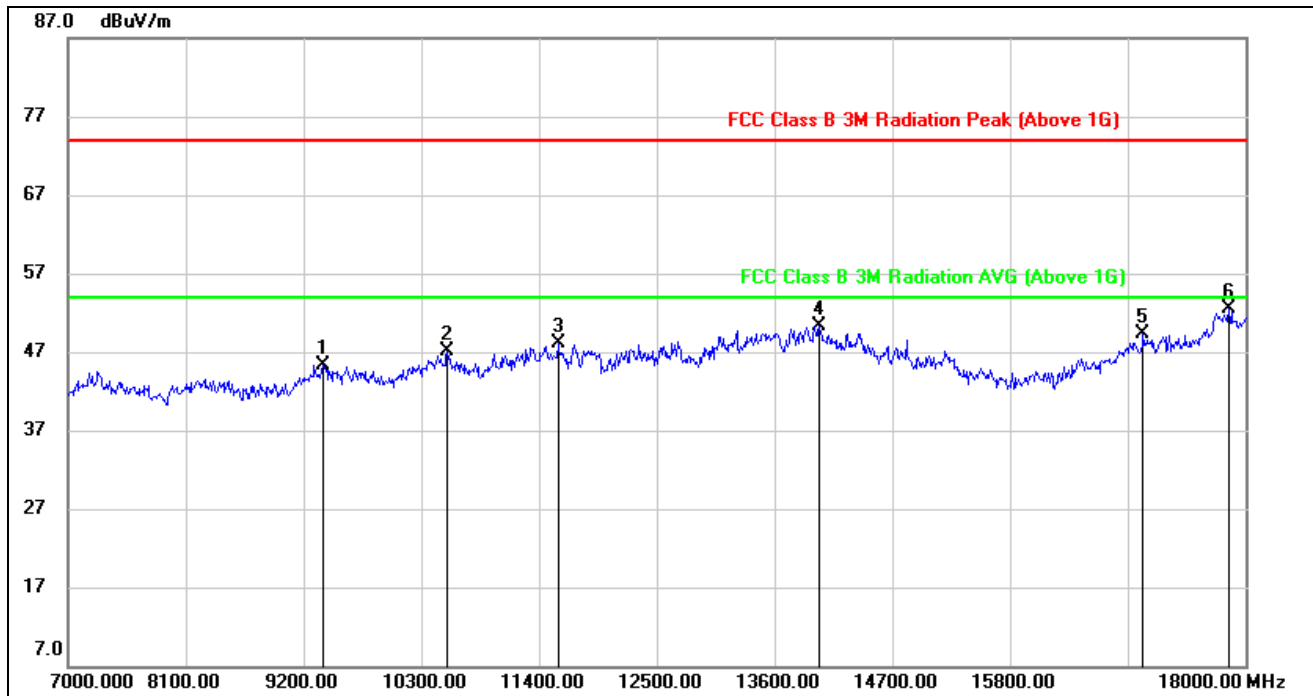


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1114.000	63.65	-13.83	49.82	74.00	-24.18	peak
2	1600.000	55.39	-12.65	42.74	74.00	-31.26	peak
3	2242.000	52.80	-8.45	44.35	74.00	-29.65	peak
4	3988.000	44.74	-4.54	40.20	74.00	-33.80	peak
5	5440.000	41.13	0.61	41.74	74.00	-32.26	peak
6	5950.000	43.81	1.68	45.49	74.00	-28.51	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### HORIZONTAL RESULTS 7-18GHz



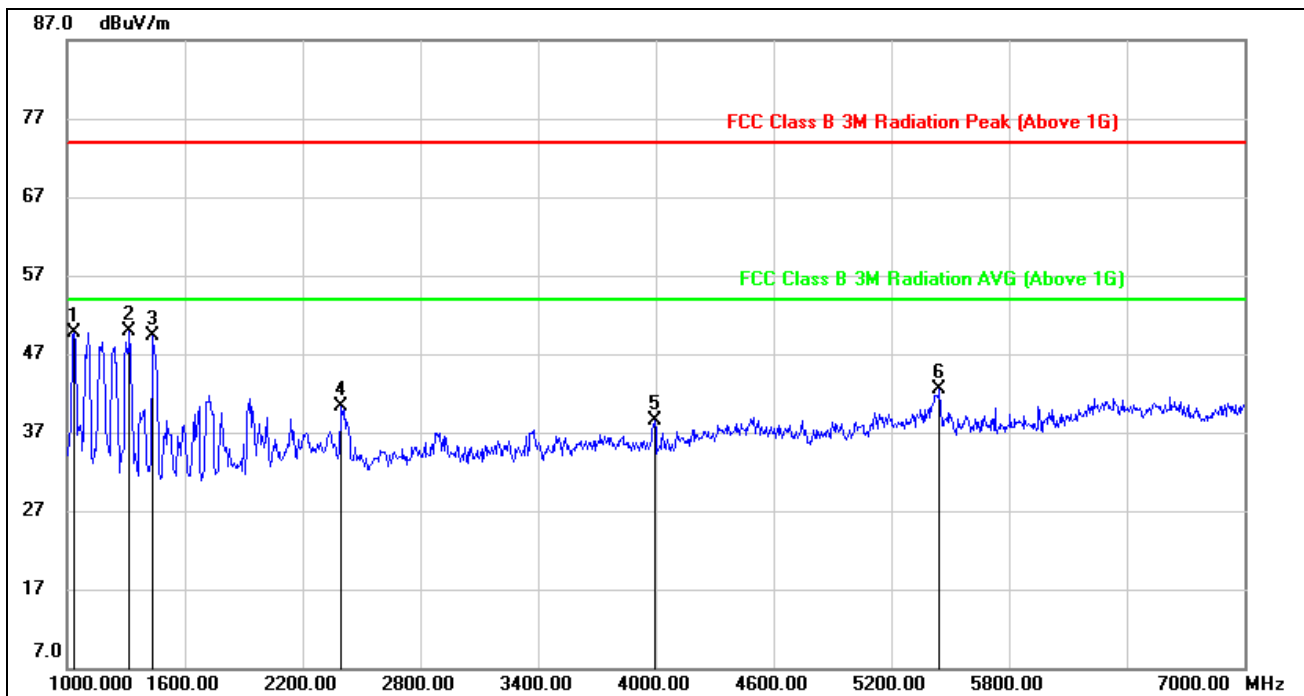
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9387.000	35.87	9.51	45.38	74.00	-28.62	peak
2	10542.000	35.22	11.97	47.19	74.00	-26.81	peak
3	11576.000	34.02	14.17	48.19	74.00	-25.81	peak
4	14018.000	31.82	18.47	50.29	74.00	-23.71	peak
5	17043.000	29.31	19.92	49.23	74.00	-24.77	peak
6	17846.000	28.24	24.26	52.50	74.00	-21.50	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.





**VERTICAL RESULTS**  
**1-7GHz**

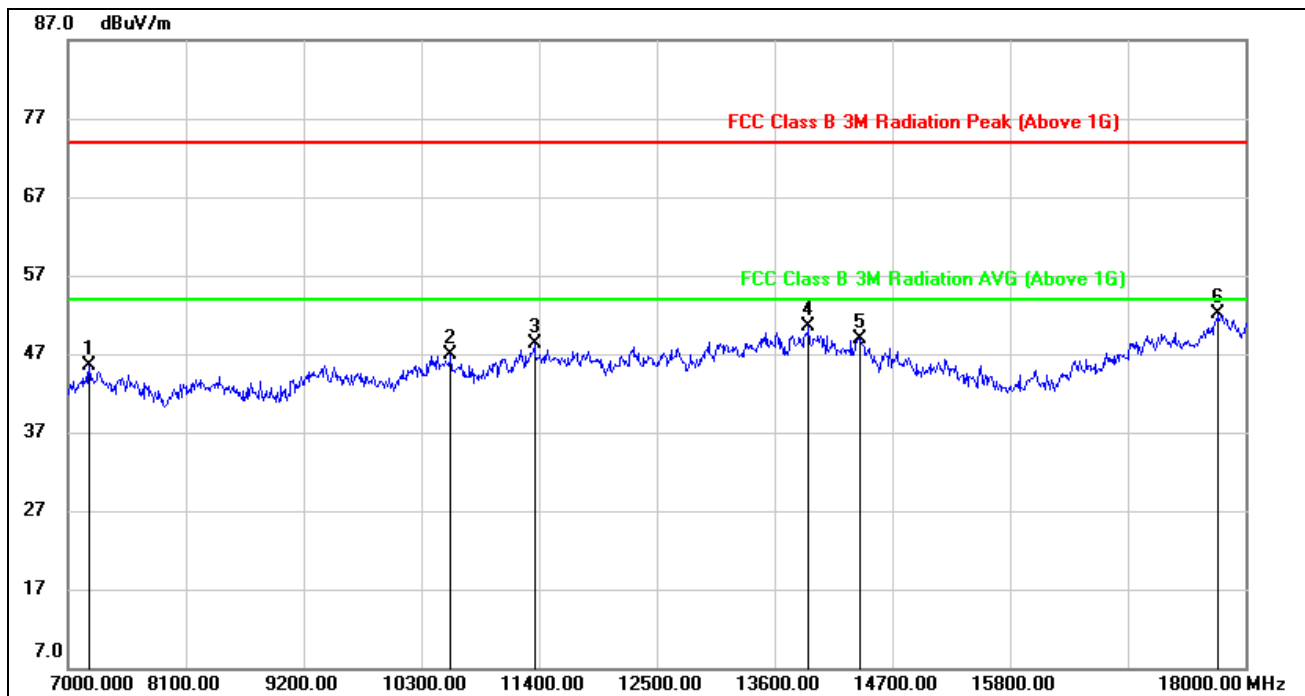


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1036.000	64.17	-14.37	49.80	74.00	-24.20	peak
2	1318.000	62.86	-12.89	49.97	74.00	-24.03	peak
3	1432.000	62.04	-12.79	49.25	74.00	-24.75	peak
4	2398.000	49.20	-8.91	40.29	74.00	-33.71	peak
5	3994.000	43.08	-4.54	38.54	74.00	-35.46	peak
6	5446.000	41.92	0.64	42.56	74.00	-31.44	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



**VERTICAL RESULTS**  
**7-18GHz**



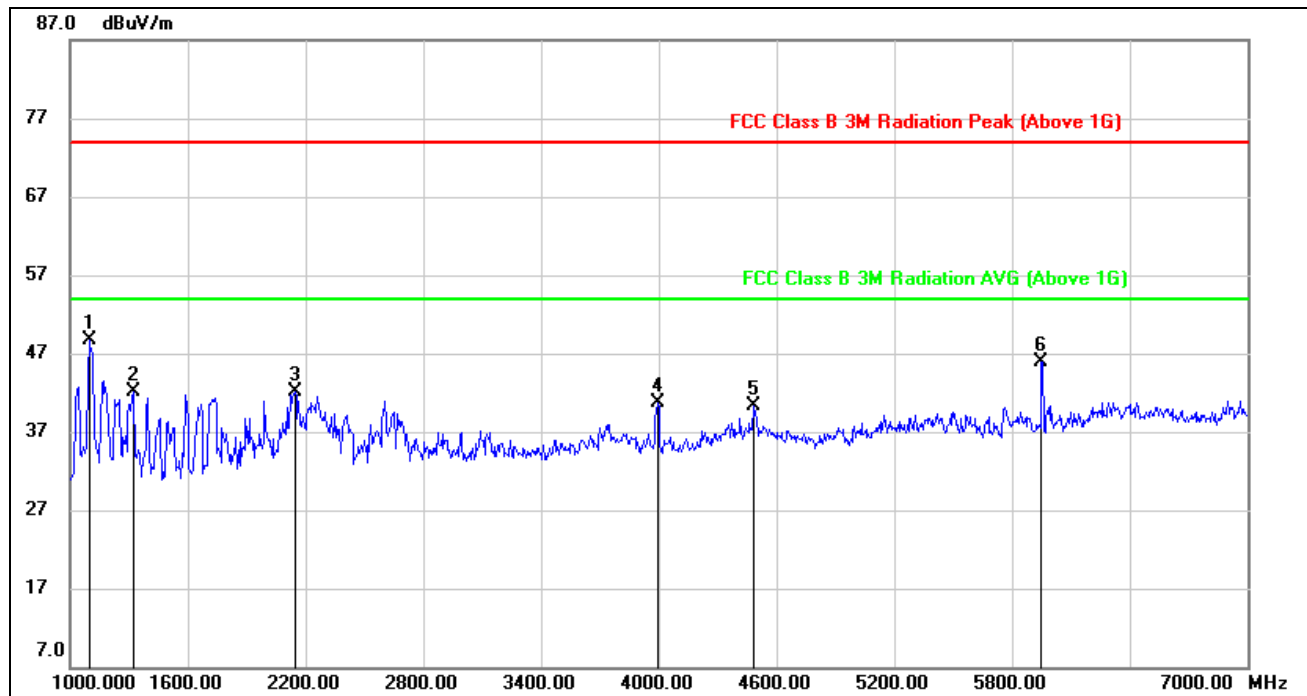
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7198.000	38.98	6.44	45.42	74.00	-28.58	peak
2	10575.000	35.06	11.91	46.97	74.00	-27.03	peak
3	11356.000	34.58	13.64	48.22	74.00	-25.78	peak
4	13919.000	31.70	18.71	50.41	74.00	-23.59	peak
5	14392.000	30.59	18.32	48.91	74.00	-25.09	peak
6	17747.000	28.09	23.94	52.03	74.00	-21.97	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



## HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL

### HORIZONTAL RESULTS 1-7GHz

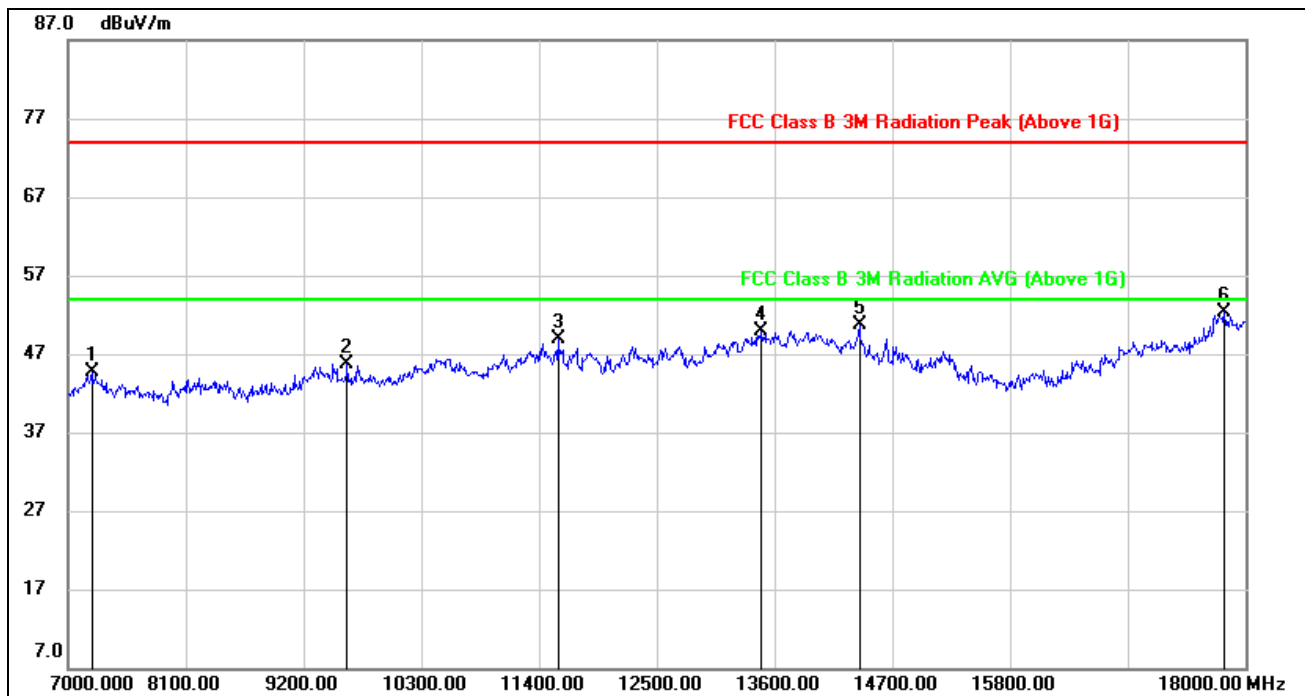


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1096.000	62.61	-13.90	48.71	74.00	-25.29	peak
2	1324.000	54.77	-12.71	42.06	74.00	-31.94	peak
3	2146.000	51.80	-9.61	42.19	74.00	-31.81	peak
4	3994.000	45.16	-4.54	40.62	74.00	-33.38	peak
5	4480.000	42.63	-2.31	40.32	74.00	-33.68	peak
6	5950.000	44.26	1.68	45.94	74.00	-28.06	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### HORIZONTAL RESULTS 7-18GHz

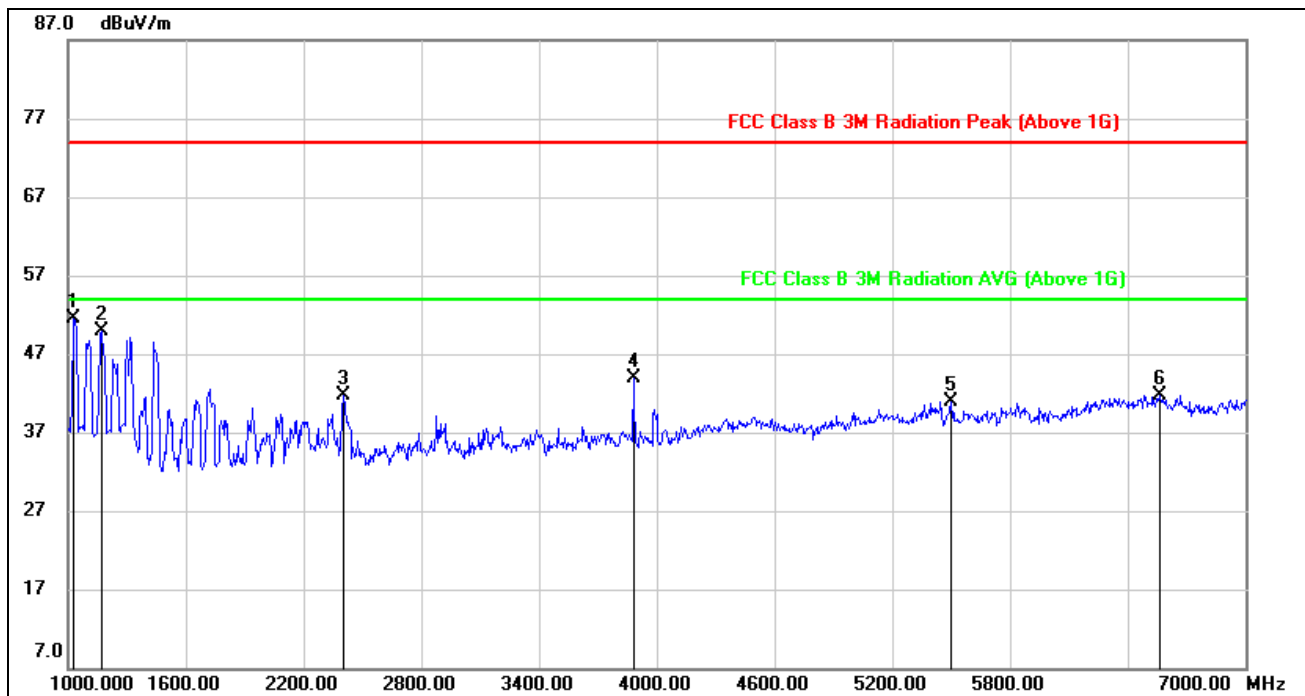


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7220.000	38.32	6.39	44.71	74.00	-29.29	peak
2	9607.000	36.05	9.60	45.65	74.00	-28.35	peak
3	11576.000	34.78	14.17	48.95	74.00	-25.05	peak
4	13479.000	31.75	18.08	49.83	74.00	-24.17	peak
5	14392.000	32.84	17.92	50.76	74.00	-23.24	peak
6	17802.000	28.04	24.24	52.28	74.00	-21.72	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



**VERTICAL RESULTS**  
**1-7GHz**

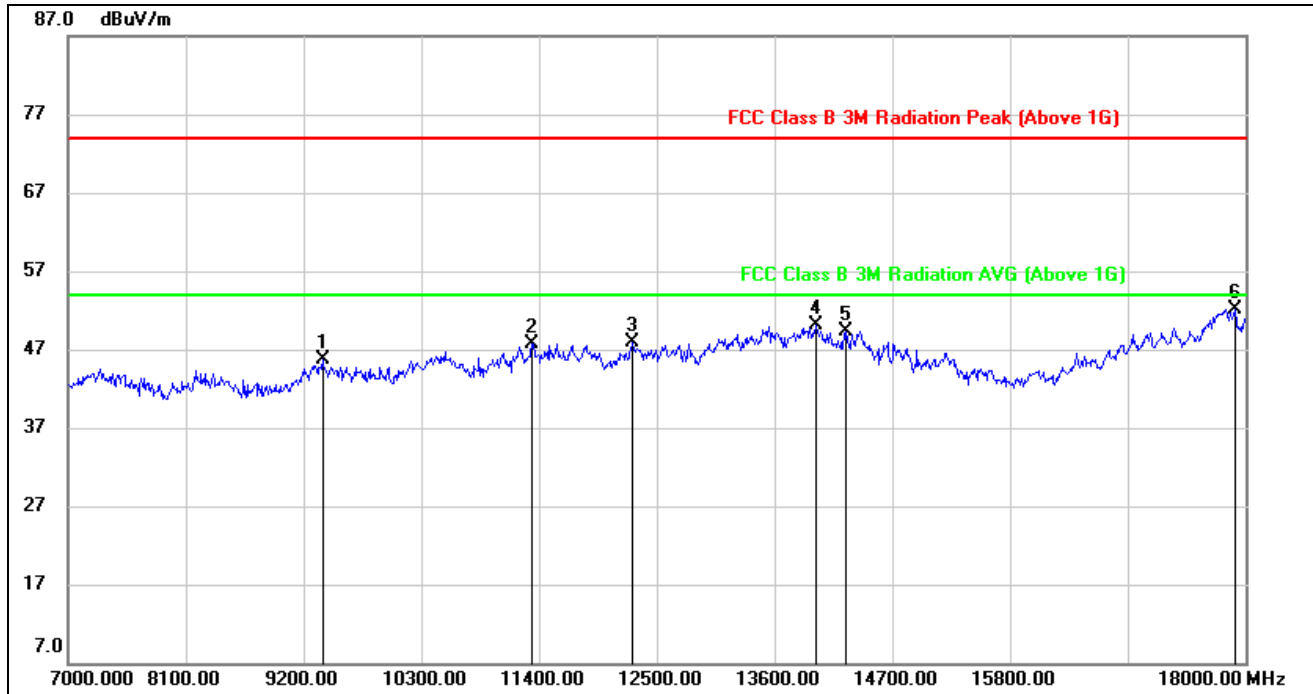


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1024.000	65.93	-14.41	51.52	74.00	-22.48	peak
2	1174.000	63.65	-13.72	49.93	74.00	-24.07	peak
3	2404.000	50.59	-8.95	41.64	74.00	-32.36	peak
4	3880.000	48.42	-4.49	43.93	74.00	-30.07	peak
5	5500.000	39.92	1.03	40.95	74.00	-33.05	peak
6	6562.000	37.72	4.00	41.72	74.00	-32.28	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### 7-18GHz



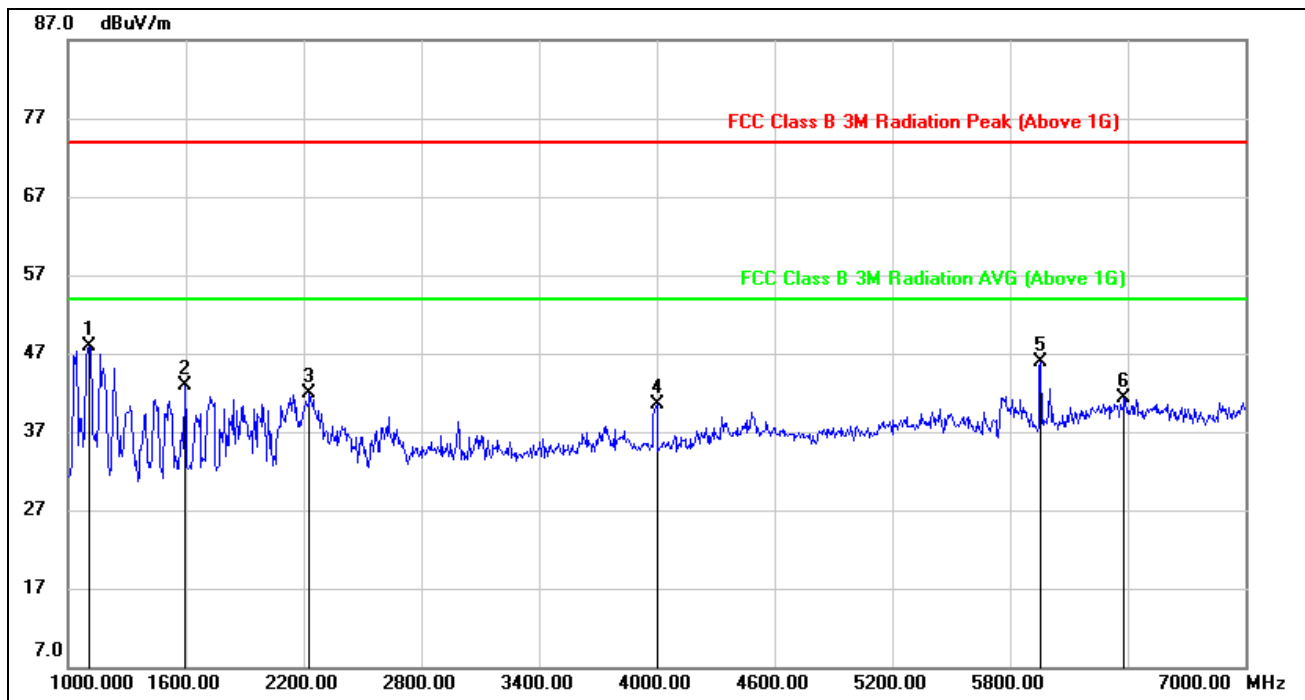
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9376.000	36.20	9.52	45.72	74.00	-28.28	peak
2	11334.000	34.25	13.52	47.77	74.00	-26.23	peak
3	12269.000	33.43	14.49	47.92	74.00	-26.08	peak
4	13985.000	31.45	18.60	50.05	74.00	-23.95	peak
5	14271.000	31.54	17.85	49.39	74.00	-24.61	peak
6	17901.000	27.87	24.26	52.13	74.00	-21.87	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



## HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL

### HORIZONTAL RESULTS 1-7GHz

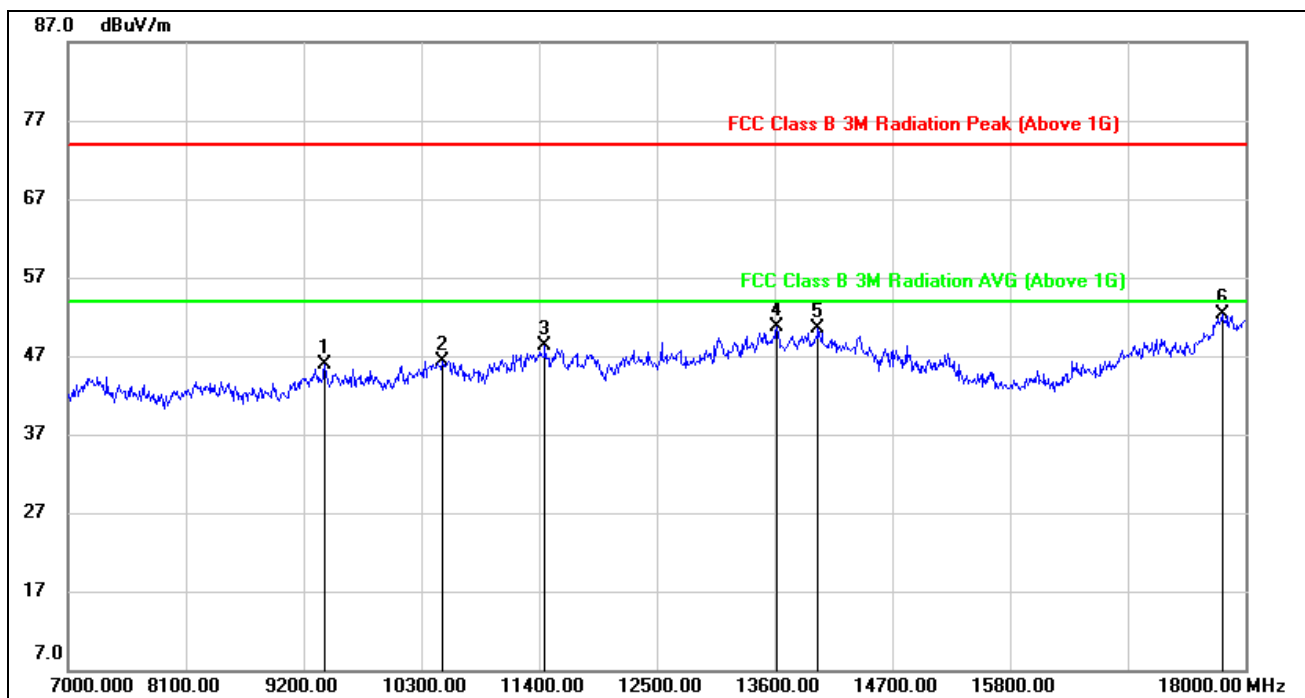


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1108.000	61.71	-13.85	47.86	74.00	-26.14	peak
2	1594.000	55.65	-12.67	42.98	74.00	-31.02	peak
3	2230.000	50.50	-8.57	41.93	74.00	-32.07	peak
4	4000.000	45.09	-4.54	40.55	74.00	-33.45	peak
5	5956.000	44.25	1.72	45.97	74.00	-28.03	peak
6	6382.000	38.07	3.25	41.32	74.00	-32.68	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### HORIZONTAL RESULTS 7-18GHz



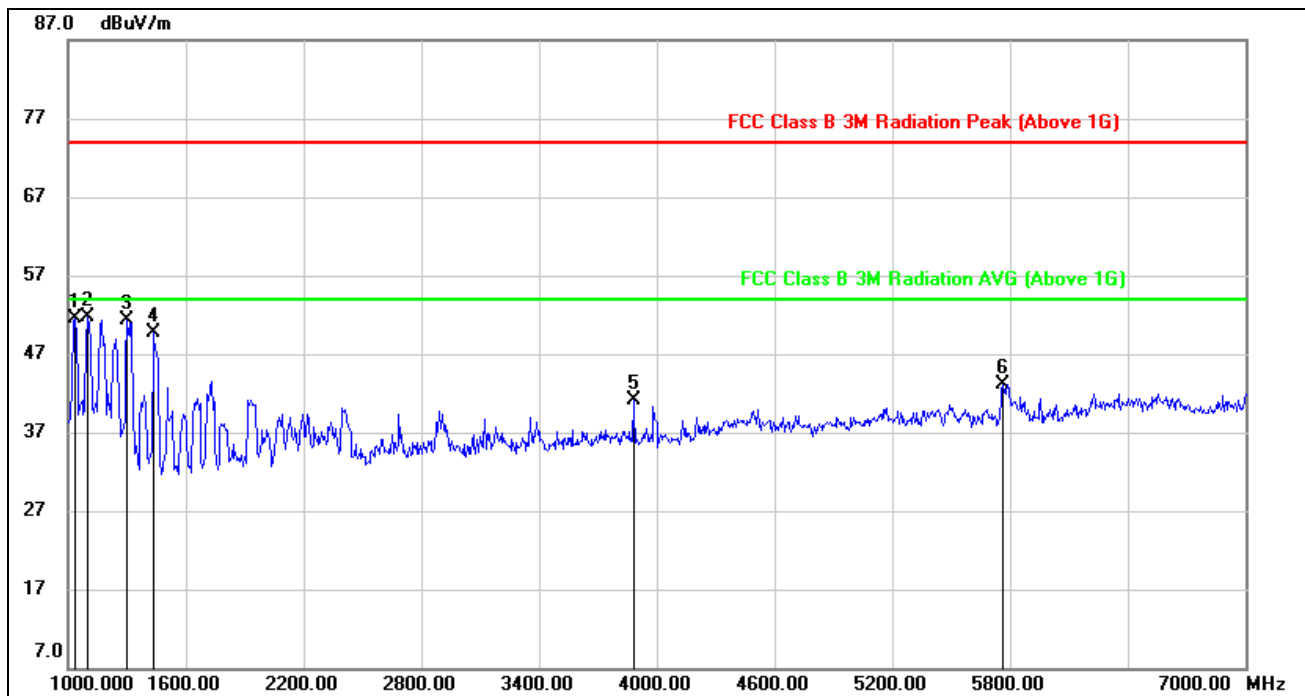
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9398.000	36.40	9.55	45.95	74.00	-28.05	peak
2	10498.000	34.42	11.91	46.33	74.00	-27.67	peak
3	11455.000	34.43	13.82	48.25	74.00	-25.75	peak
4	13622.000	32.32	18.47	50.79	74.00	-23.21	peak
5	14007.000	32.03	18.47	50.50	74.00	-23.50	peak
6	17780.000	28.31	23.98	52.29	74.00	-21.71	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.





**VERTICAL RESULTS**  
**1-7GHz**

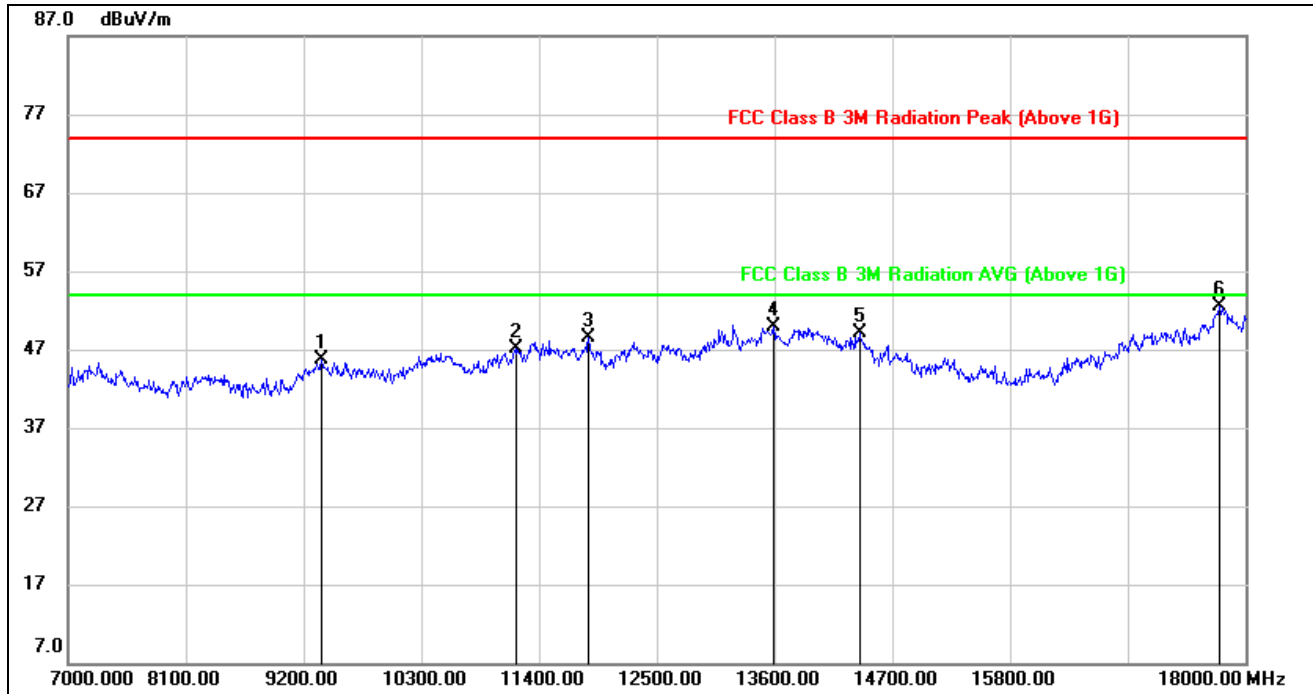


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1036.000	65.79	-14.37	51.42	74.00	-22.58	peak
2	1102.000	65.87	-14.18	51.69	74.00	-22.31	peak
3	1300.000	64.24	-12.97	51.27	74.00	-22.73	peak
4	1432.000	62.43	-12.79	49.64	74.00	-24.36	peak
5	3880.000	45.68	-4.49	41.19	74.00	-32.81	peak
6	5764.000	41.94	1.24	43.18	74.00	-30.82	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### 7-18GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9365.000	36.27	9.51	45.78	74.00	-28.22	peak
2	11180.000	33.71	13.34	47.05	74.00	-26.95	peak
3	11862.000	33.80	14.73	48.53	74.00	-25.47	peak
4	13589.000	31.38	18.46	49.84	74.00	-24.16	peak
5	14392.000	30.83	18.32	49.15	74.00	-24.85	peak
6	17758.000	28.33	24.08	52.41	74.00	-21.59	peak

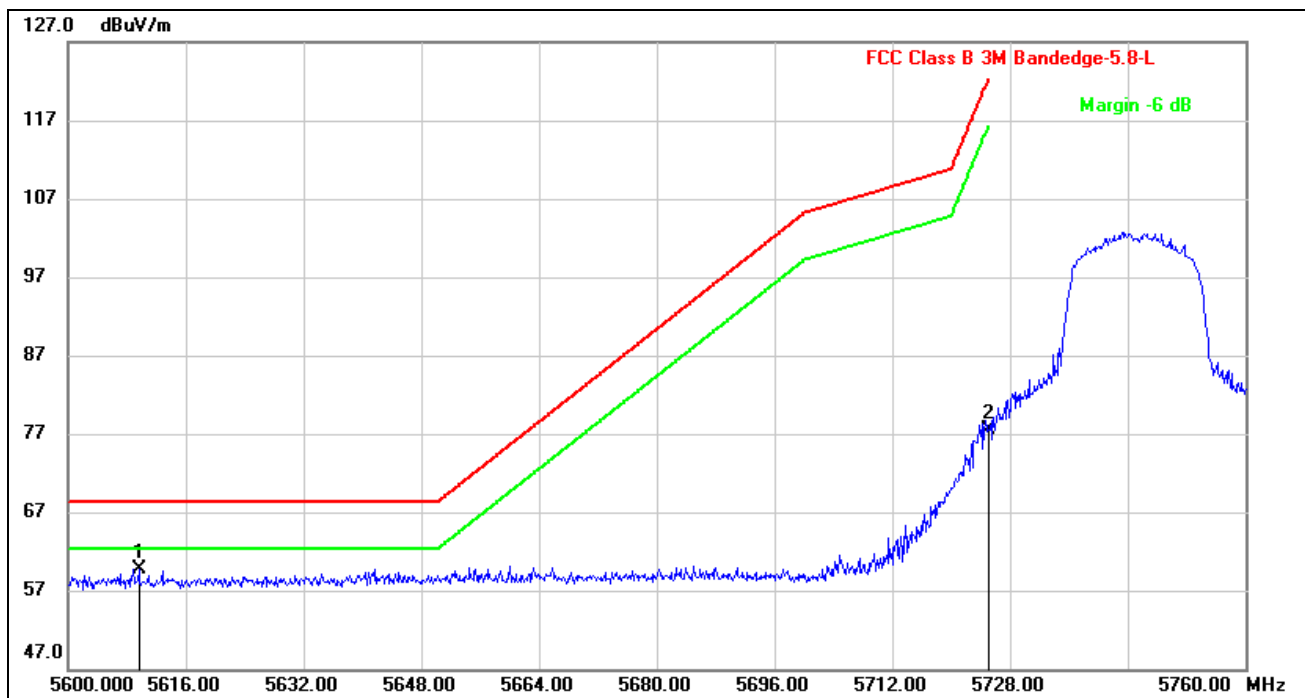
Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



#### 7.2.4. UNII-3 BAND

#### RESTRICTED BANDEDGE LOW CHANNEL

#### HORIZONTAL RESULTS

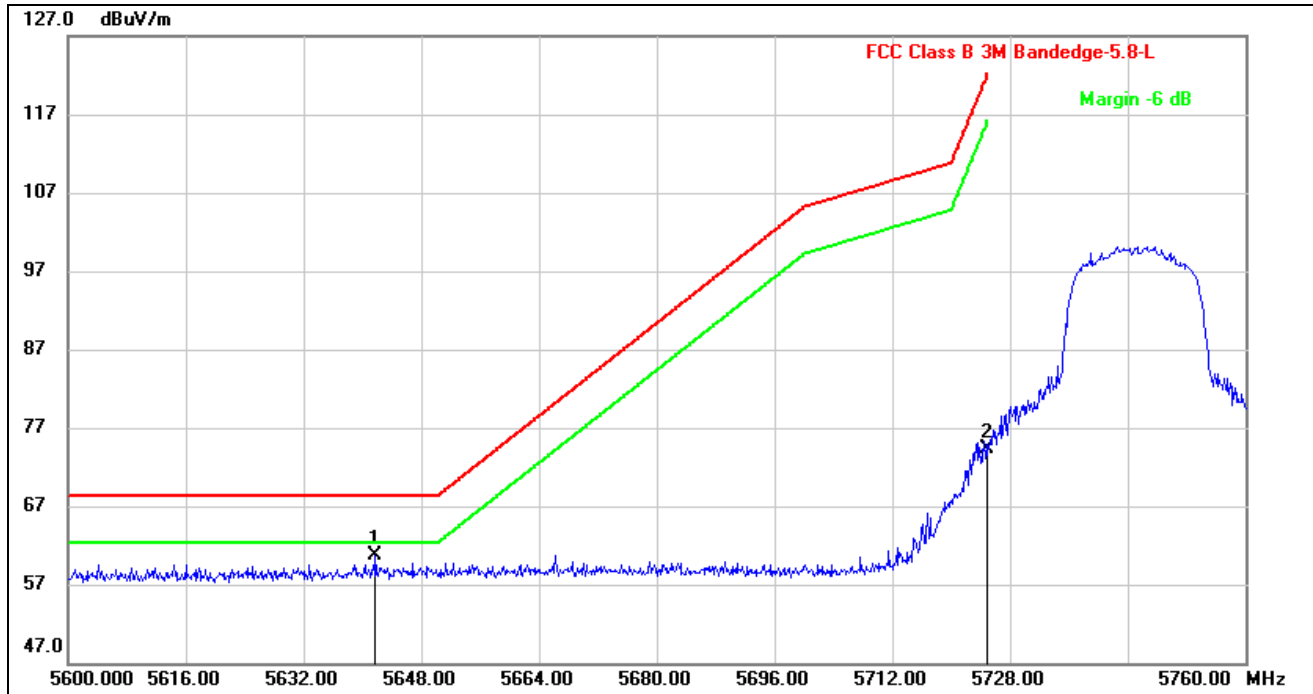


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5609.600	18.51	41.15	59.66	68.20	-8.54	peak
2	5725.000	36.02	41.39	77.41	122.20	-44.79	peak

Note: 1. Measurement = Reading Level + Correct Factor.



### VERTICAL RESULTS



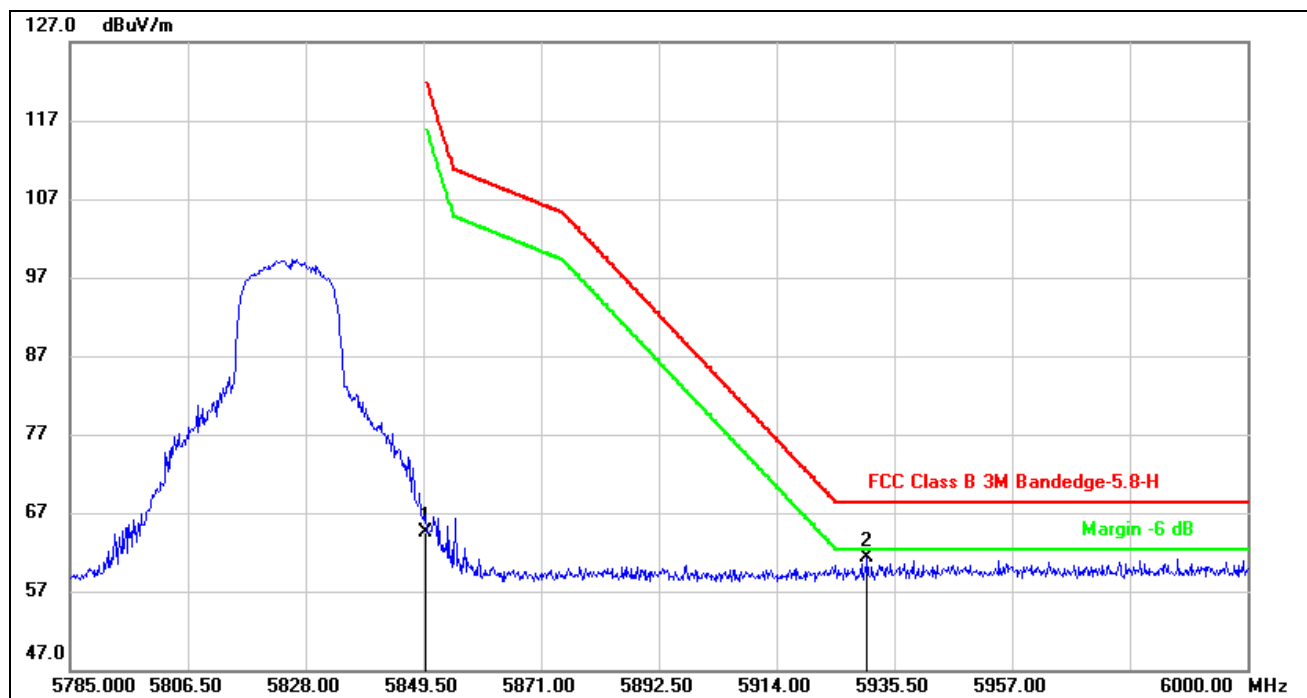
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5641.760	19.37	41.26	60.63	68.20	-7.57	peak
2	5725.000	32.74	41.49	74.23	122.20	-47.97	peak

Note: 1. Measurement = Reading Level + Correct Factor.



## RESTRICTED BANDEDGE HIGH CHANNEL

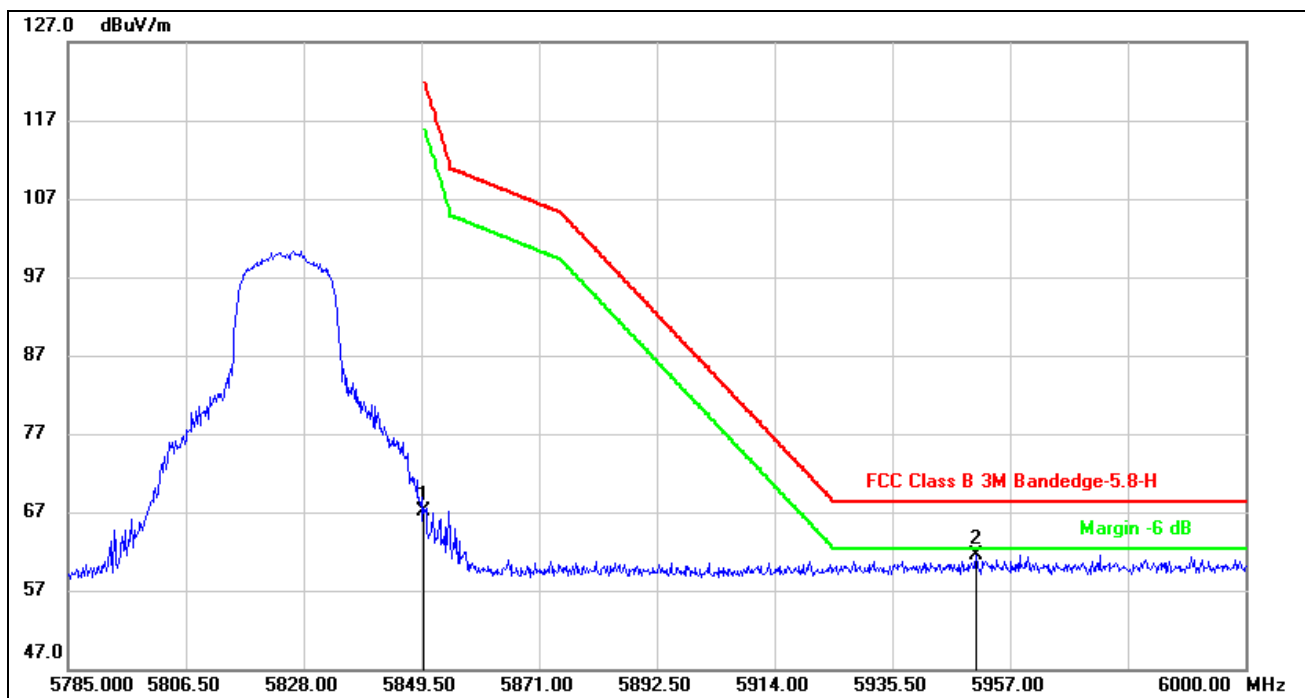
### HORIZONTAL RESULTS



Note: 1. Measurement = Reading Level + Correct Factor.



### VERTICAL RESULTS



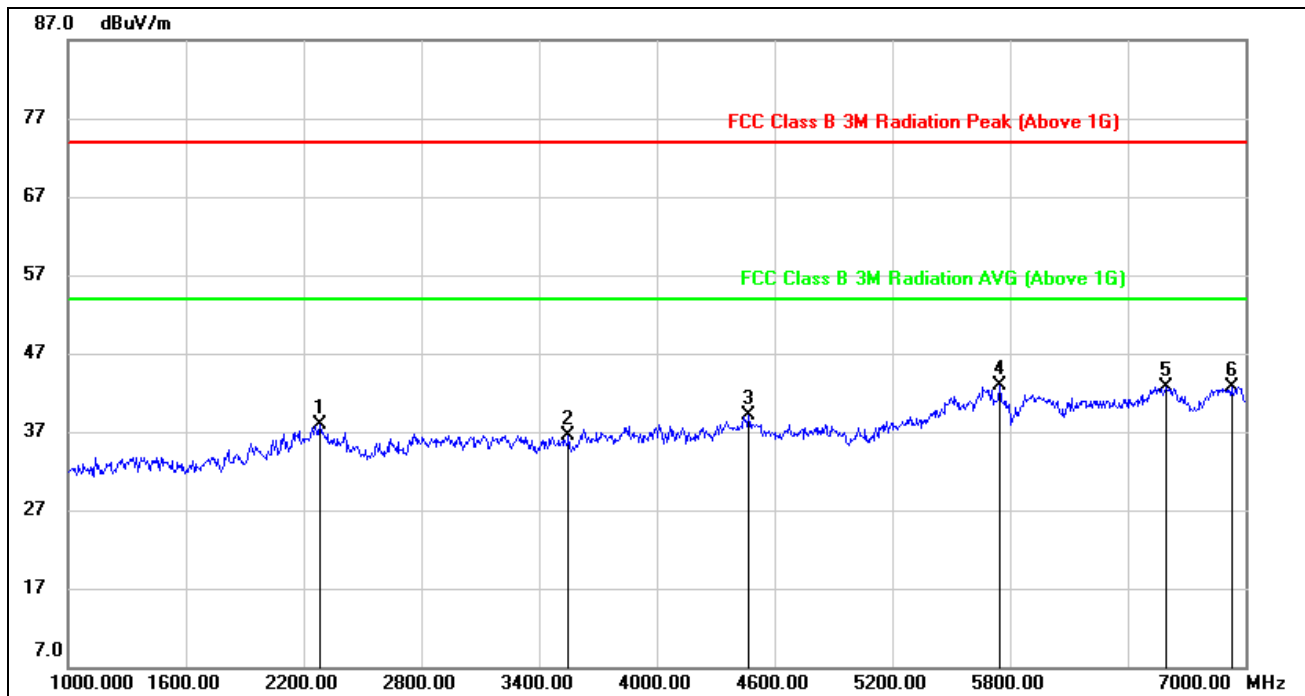
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	25.32	41.87	67.19	122.20	-55.01	peak
2	5950.765	19.40	42.11	61.51	68.20	-6.69	peak

Note: 1. Measurement = Reading Level + Correct Factor.



## HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL

### HORIZONTAL RESULTS 1-7GHz

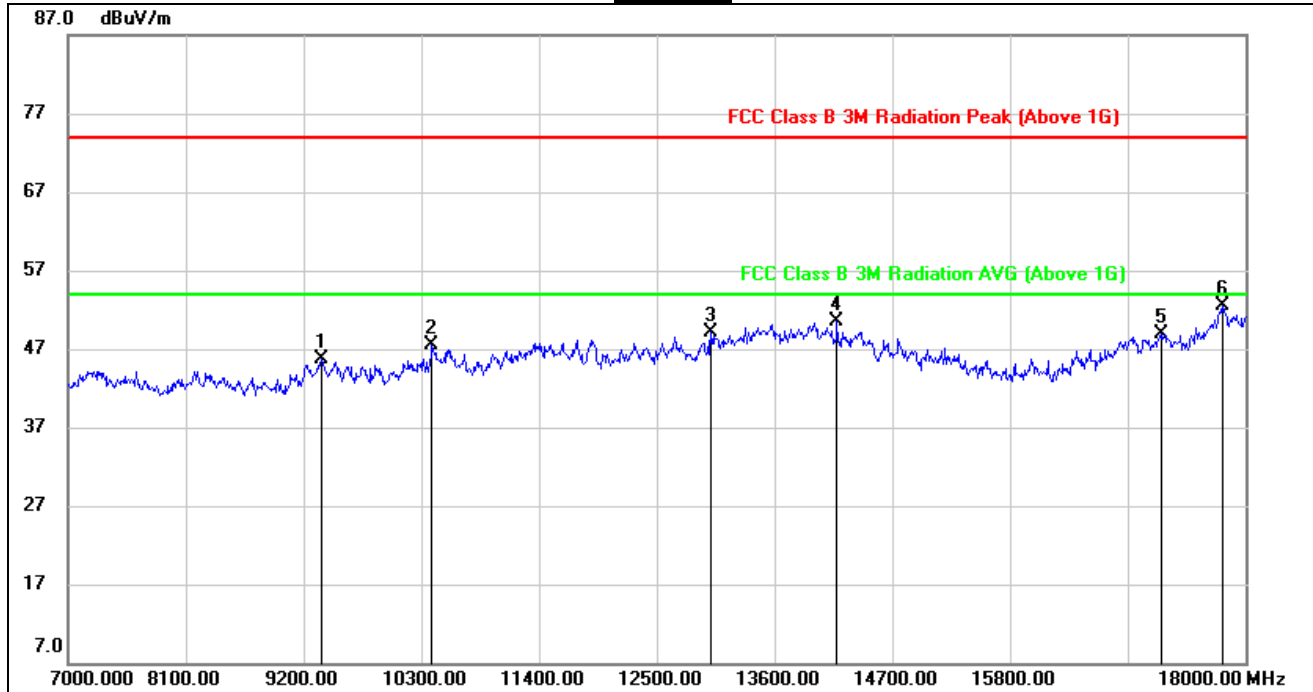


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2284.000	46.25	-8.37	37.88	74.00	-36.12	peak
2	3550.000	42.31	-5.76	36.55	74.00	-37.45	peak
3	4468.000	41.37	-2.34	39.03	74.00	-34.97	peak
4	5746.000	41.85	1.05	42.90	74.00	-31.10	peak
5	6598.000	38.46	4.22	42.68	74.00	-31.32	peak
6	6928.000	37.62	5.12	42.74	74.00	-31.26	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### HORIZONTAL RESULTS 7-18GHz



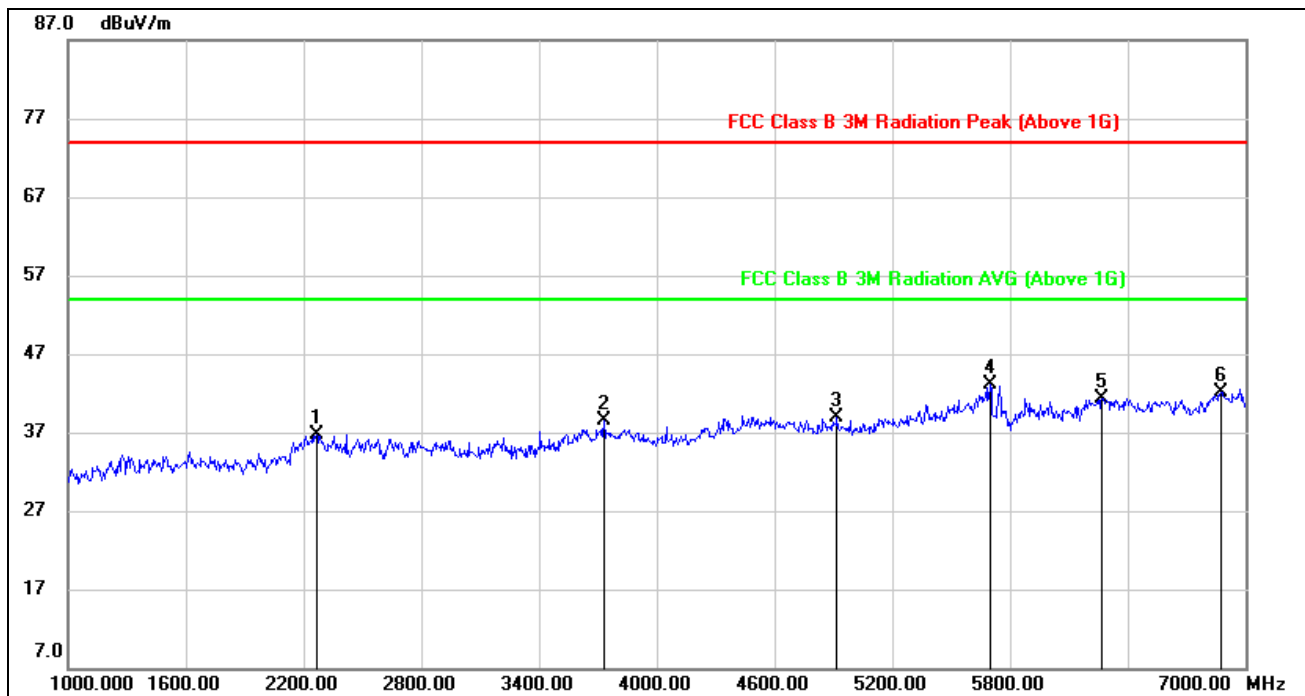
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9365.000	36.24	9.44	45.68	74.00	-28.32	peak
2	10399.000	36.06	11.40	47.46	74.00	-26.54	peak
3	13006.000	32.50	16.62	49.12	74.00	-24.88	peak
4	14183.000	32.65	17.89	50.54	74.00	-23.46	peak
5	17219.000	28.44	20.55	48.99	74.00	-25.01	peak
6	17780.000	28.60	23.98	52.58	74.00	-21.42	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.





**VERTICAL RESULTS**  
**1-7GHz**

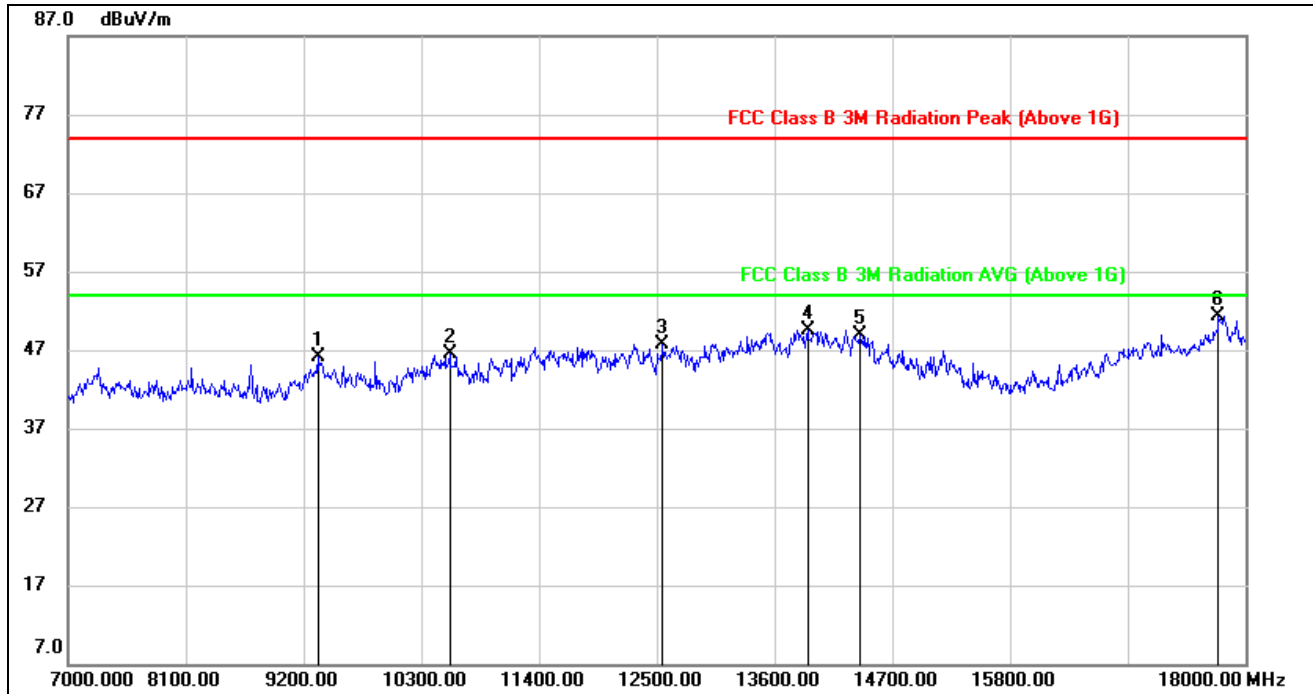


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2266.000	44.95	-8.31	36.64	74.00	-37.36	peak
2	3730.000	43.51	-4.95	38.56	74.00	-35.44	peak
3	4918.000	39.62	-0.77	38.85	74.00	-35.15	peak
4	5698.000	42.17	0.99	43.16	74.00	-30.84	peak
5	6268.000	38.09	3.15	41.24	74.00	-32.76	peak
6	6874.000	37.15	4.94	42.09	74.00	-31.91	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



**VERTICAL RESULTS**  
**7-18GHz**



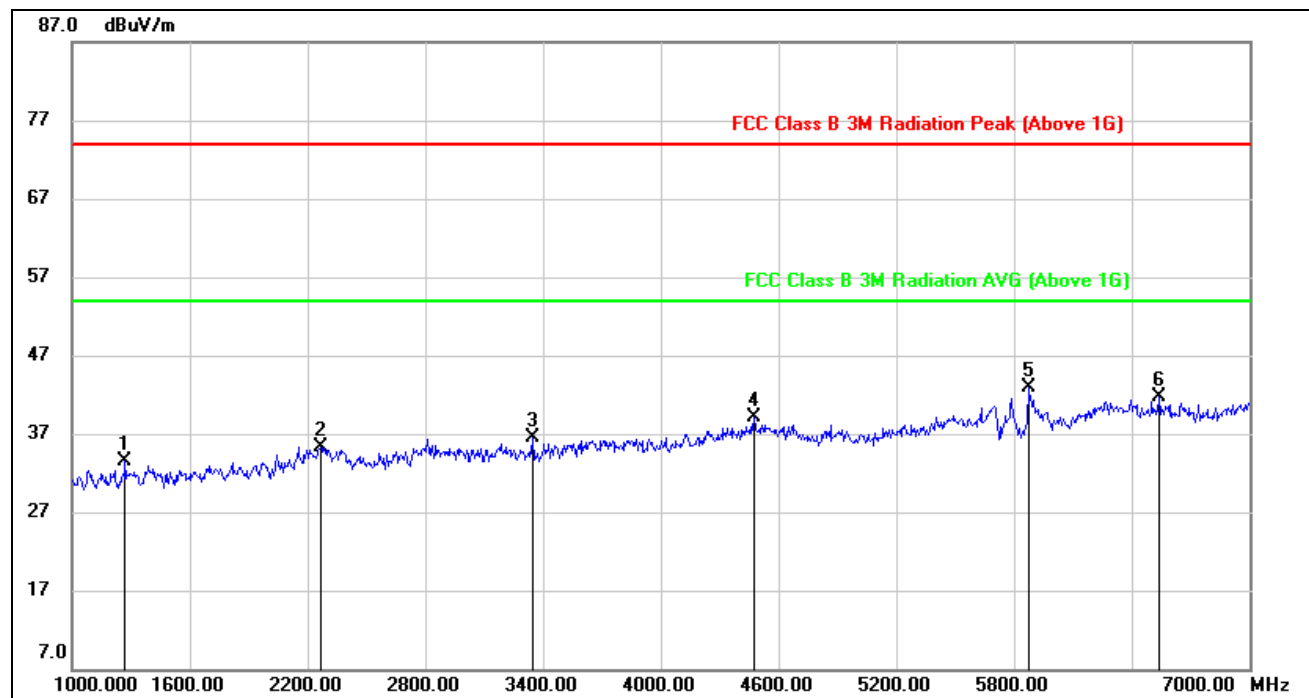
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9332.000	36.71	9.40	46.11	74.00	-27.89	peak
2	10564.000	34.56	11.90	46.46	74.00	-27.54	peak
3	12555.000	32.58	15.09	47.67	74.00	-26.33	peak
4	13908.000	30.85	18.72	49.57	74.00	-24.43	peak
5	14403.000	30.58	18.30	48.88	74.00	-25.12	peak
6	17747.000	27.33	23.94	51.27	74.00	-22.73	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



## HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL

### HORIZONTAL RESULTS 1-7GHz

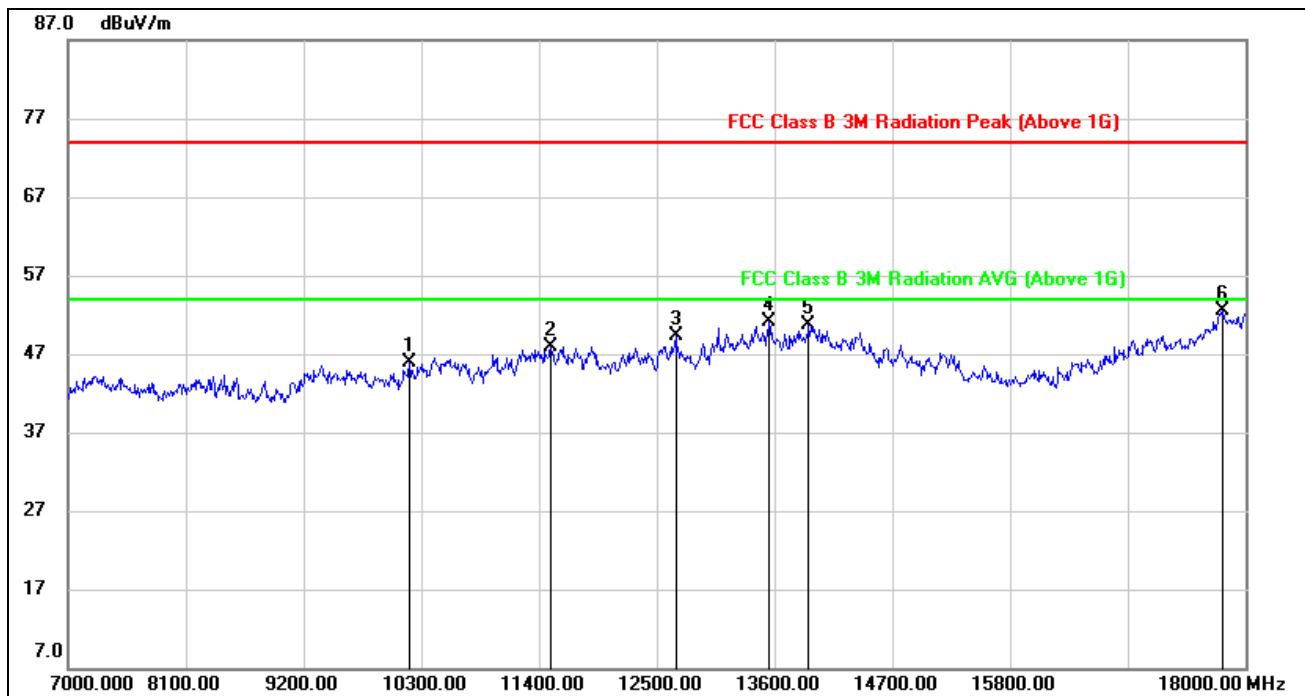


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1270.000	46.46	-12.96	33.50	74.00	-40.50	peak
2	2266.000	43.76	-8.37	35.39	74.00	-38.61	peak
3	3346.000	43.14	-6.65	36.49	74.00	-37.51	peak
4	4474.000	41.35	-2.33	39.02	74.00	-34.98	peak
5	5872.000	41.44	1.40	42.84	74.00	-31.16	peak
6	6538.000	37.90	3.76	41.66	74.00	-32.34	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### HORIZONTAL RESULTS 7-18GHz

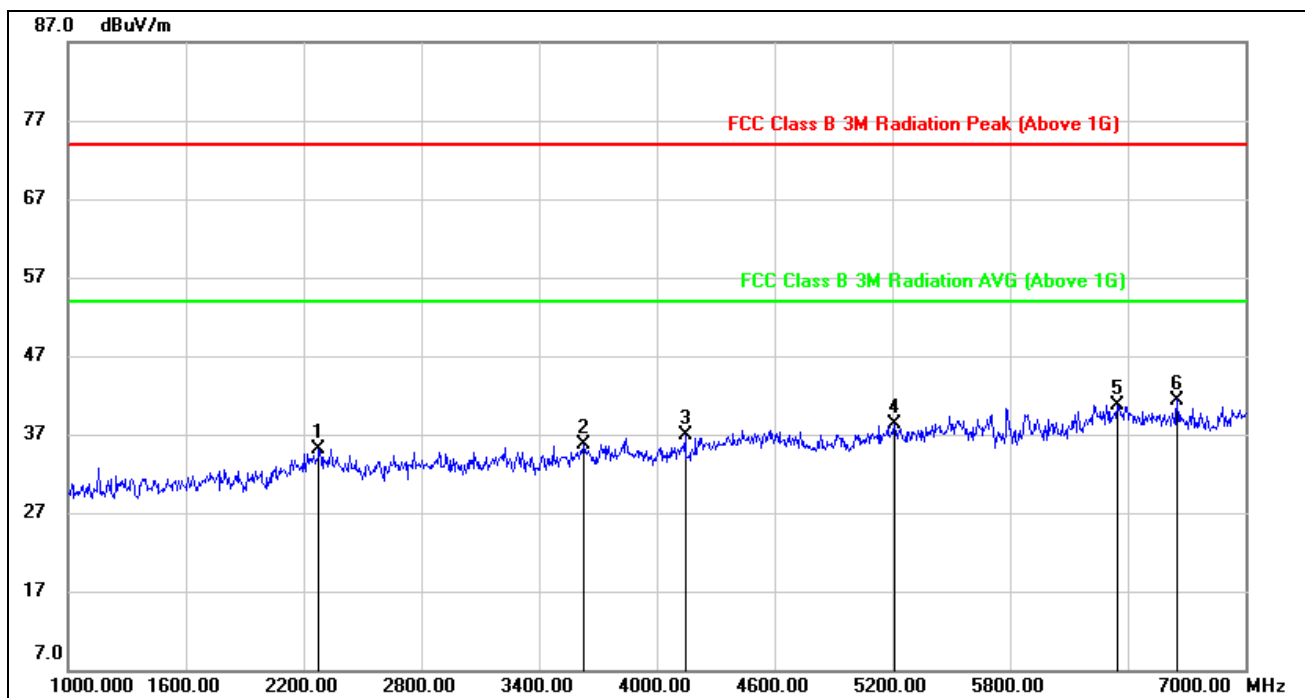


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10190.000	35.03	10.83	45.86	74.00	-28.14	peak
2	11510.000	34.43	13.55	47.98	74.00	-26.02	peak
3	12676.000	33.99	15.41	49.40	74.00	-24.60	peak
4	13545.000	32.77	18.27	51.04	74.00	-22.96	peak
5	13919.000	32.18	18.55	50.73	74.00	-23.27	peak
6	17780.000	28.61	23.98	52.59	74.00	-21.41	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



**VERTICAL RESULTS**  
**1-7GHz**

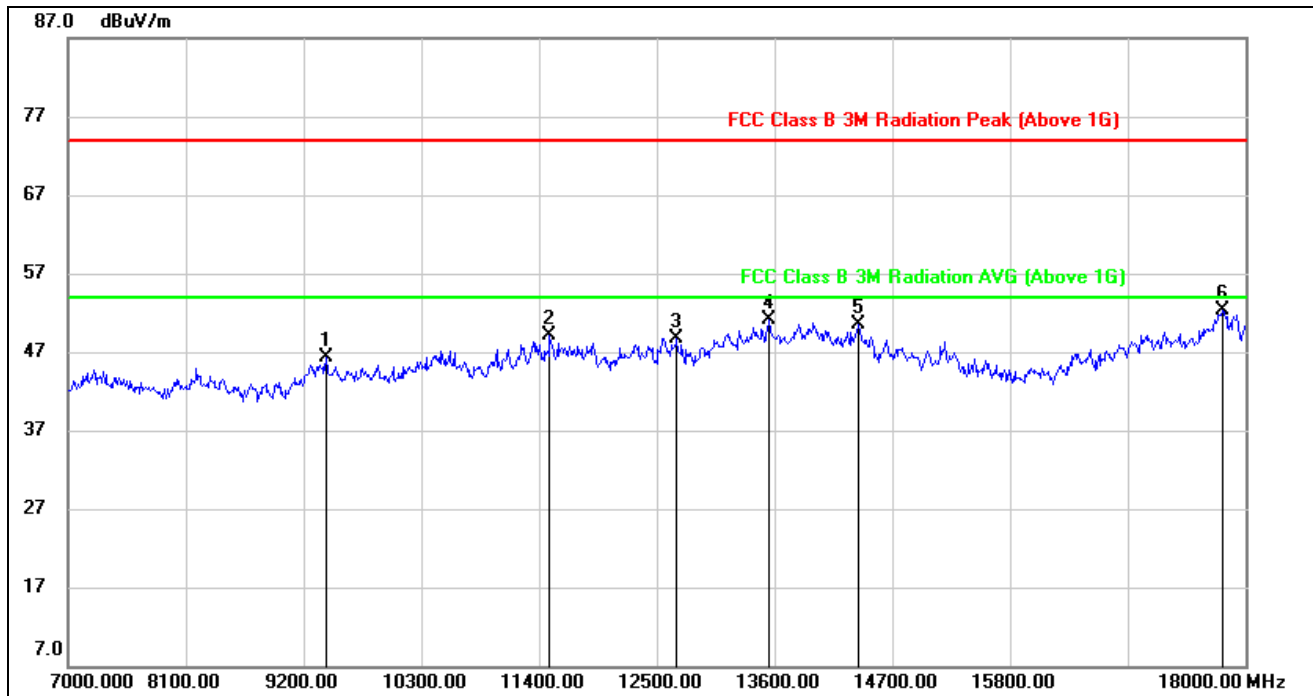


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2278.000	43.39	-8.25	35.14	74.00	-38.86	peak
2	3628.000	41.15	-5.40	35.75	74.00	-38.25	peak
3	4144.000	40.64	-3.82	36.82	74.00	-37.18	peak
4	5212.000	38.28	-0.05	38.23	74.00	-35.77	peak
5	6346.000	37.53	3.25	40.78	74.00	-33.22	peak
6	6652.000	37.05	4.35	41.40	74.00	-32.60	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



**VERTICAL RESULTS**  
**7-18GHz**



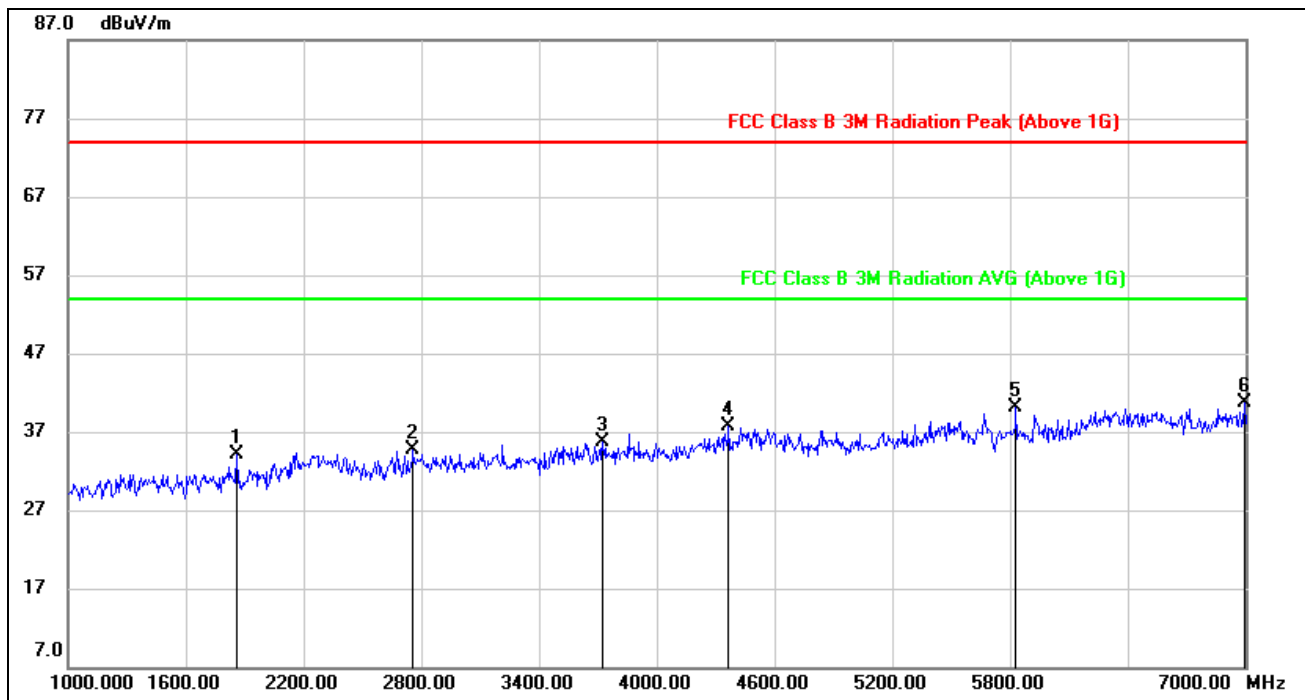
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9409.000	36.69	9.57	46.26	74.00	-27.74	peak
2	11499.000	35.10	14.07	49.17	74.00	-24.83	peak
3	12687.000	33.33	15.44	48.77	74.00	-25.23	peak
4	13545.000	32.23	18.86	51.09	74.00	-22.91	peak
5	14381.000	32.16	18.31	50.47	74.00	-23.53	peak
6	17791.000	27.77	24.52	52.29	74.00	-21.71	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



## HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL

### HORIZONTAL RESULTS 1-7GHz

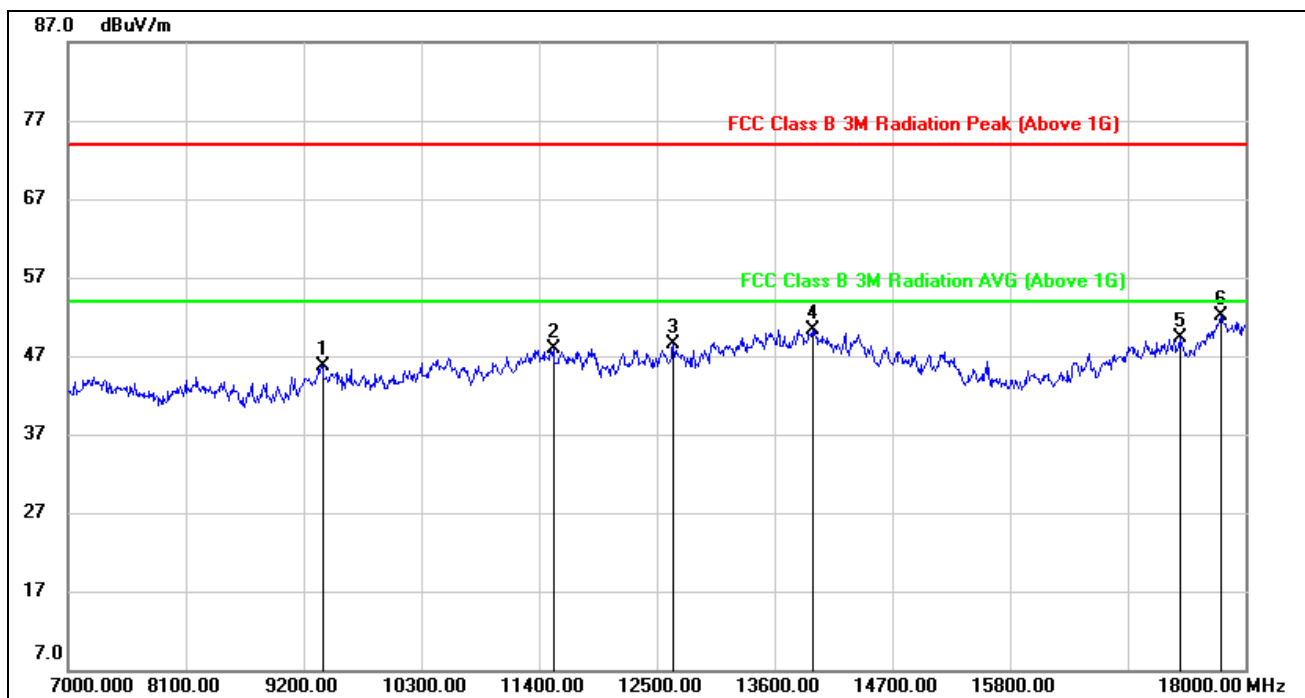


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1858.000	45.68	-11.53	34.15	74.00	-39.85	peak
2	2758.000	42.54	-7.91	34.63	74.00	-39.37	peak
3	3724.000	40.67	-5.00	35.67	74.00	-38.33	peak
4	4366.000	40.41	-2.75	37.66	74.00	-36.34	peak
5	5830.000	38.74	1.37	40.11	74.00	-33.89	peak
6	6994.000	35.42	5.37	40.79	74.00	-33.21	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### HORIZONTAL RESULTS 7-18GHz



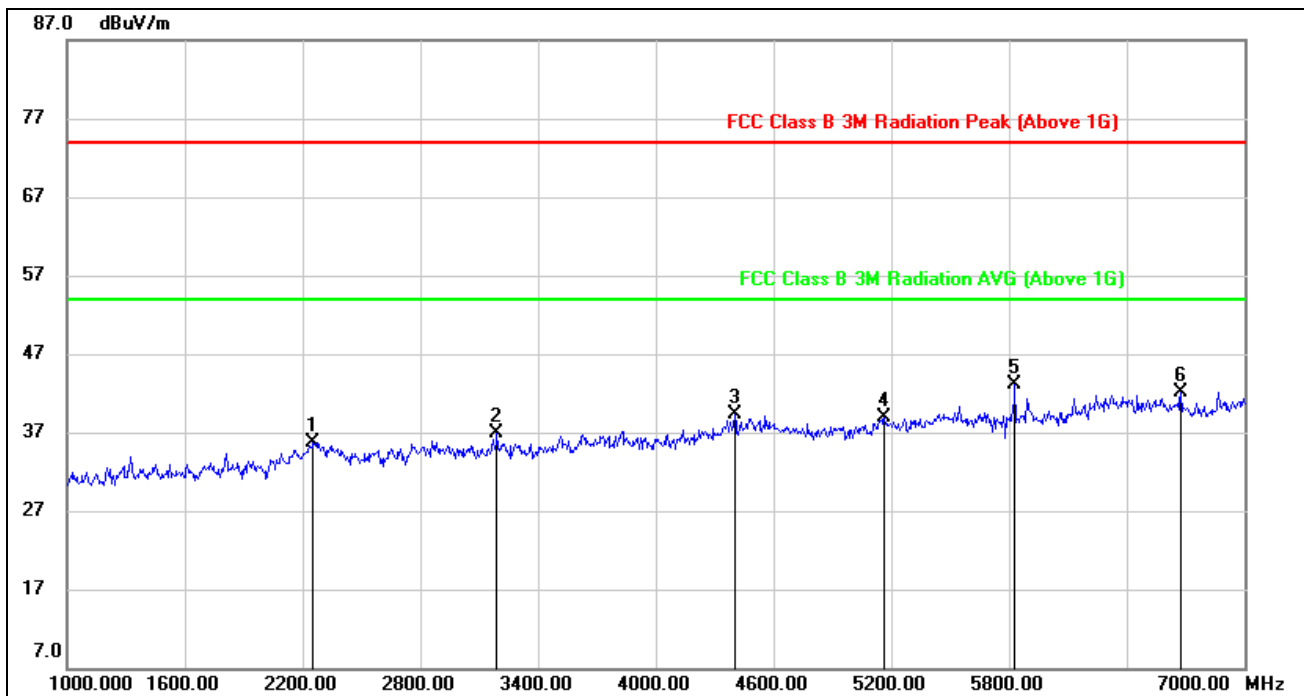
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9376.000	36.31	9.47	45.78	74.00	-28.22	peak
2	11532.000	34.22	13.70	47.92	74.00	-26.08	peak
3	12654.000	33.06	15.36	48.42	74.00	-25.58	peak
4	13952.000	31.80	18.56	50.36	74.00	-23.64	peak
5	17384.000	28.53	20.79	49.32	74.00	-24.68	peak
6	17769.000	28.18	23.83	52.01	74.00	-21.99	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.





**VERTICAL RESULTS**  
**1-7GHz**

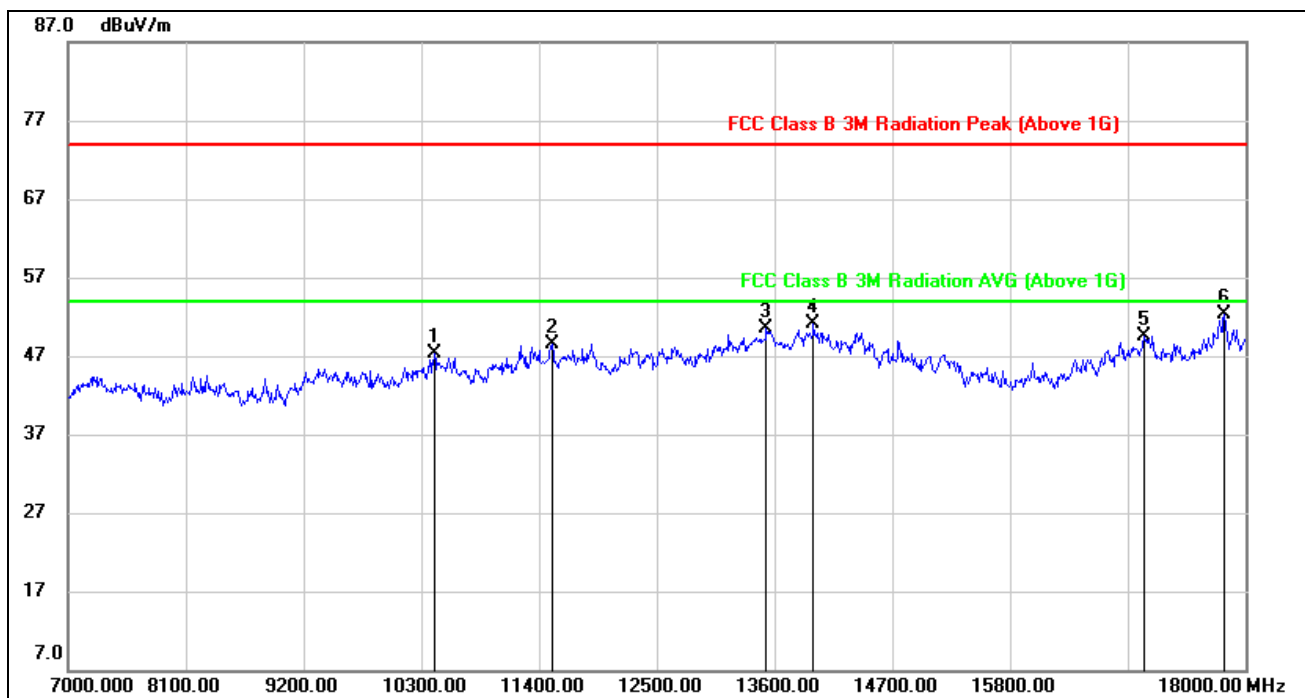


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2254.000	44.07	-8.35	35.72	74.00	-38.28	peak
2	3190.000	43.38	-6.51	36.87	74.00	-37.13	peak
3	4402.000	41.73	-2.51	39.22	74.00	-34.78	peak
4	5164.000	38.90	-0.02	38.88	74.00	-35.12	peak
5	5830.000	41.62	1.47	43.09	74.00	-30.91	peak
6	6676.000	37.86	4.32	42.18	74.00	-31.82	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



**VERTICAL RESULTS**  
**7-18GHz**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10421.000	35.64	11.61	47.25	74.00	-26.75	peak
2	11521.000	34.39	14.14	48.53	74.00	-25.47	peak
3	13523.000	31.72	18.72	50.44	74.00	-23.56	peak
4	13963.000	32.49	18.63	51.12	74.00	-22.88	peak
5	17054.000	29.07	20.48	49.55	74.00	-24.45	peak
6	17802.000	27.74	24.61	52.35	74.00	-21.65	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



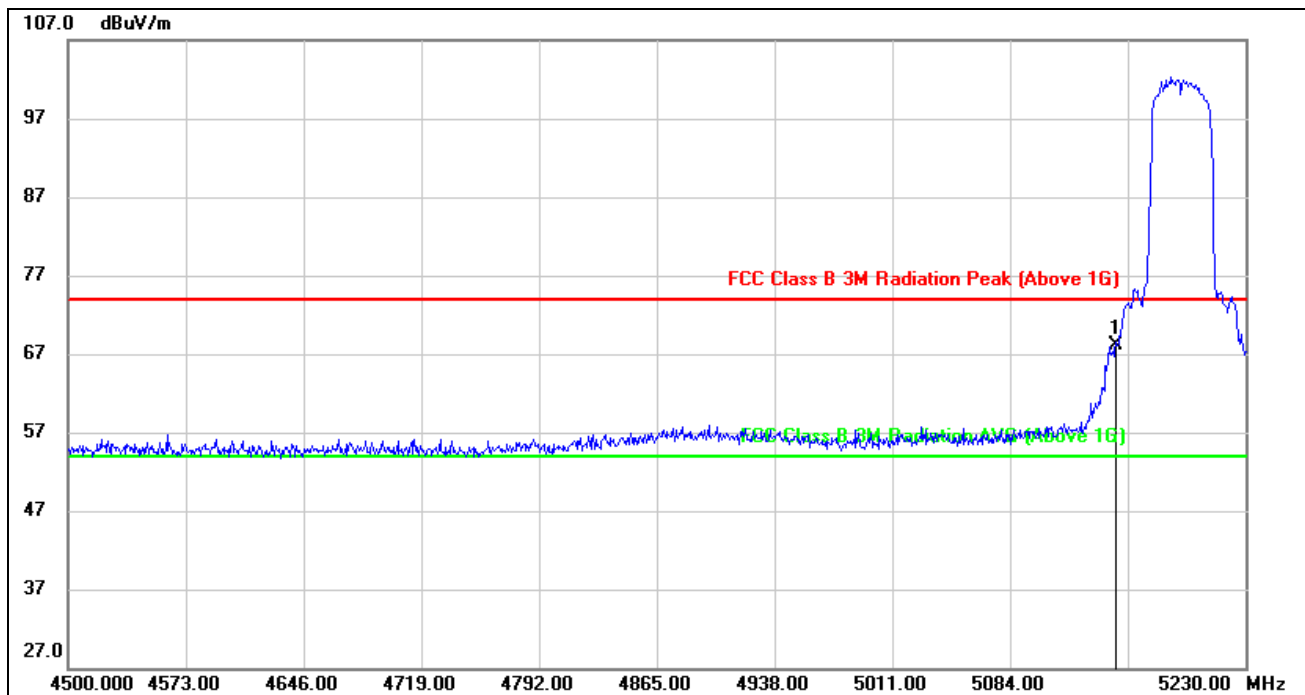
### 7.3. 802.11n HT40 MODE

#### WORST-CASE CONFIGURATION

##### 7.3.1. UNII-1 BAND

#### RESTRICTED BANDEDGE LOW CHANNEL

#### HORIZONTAL RESULTS PEAK

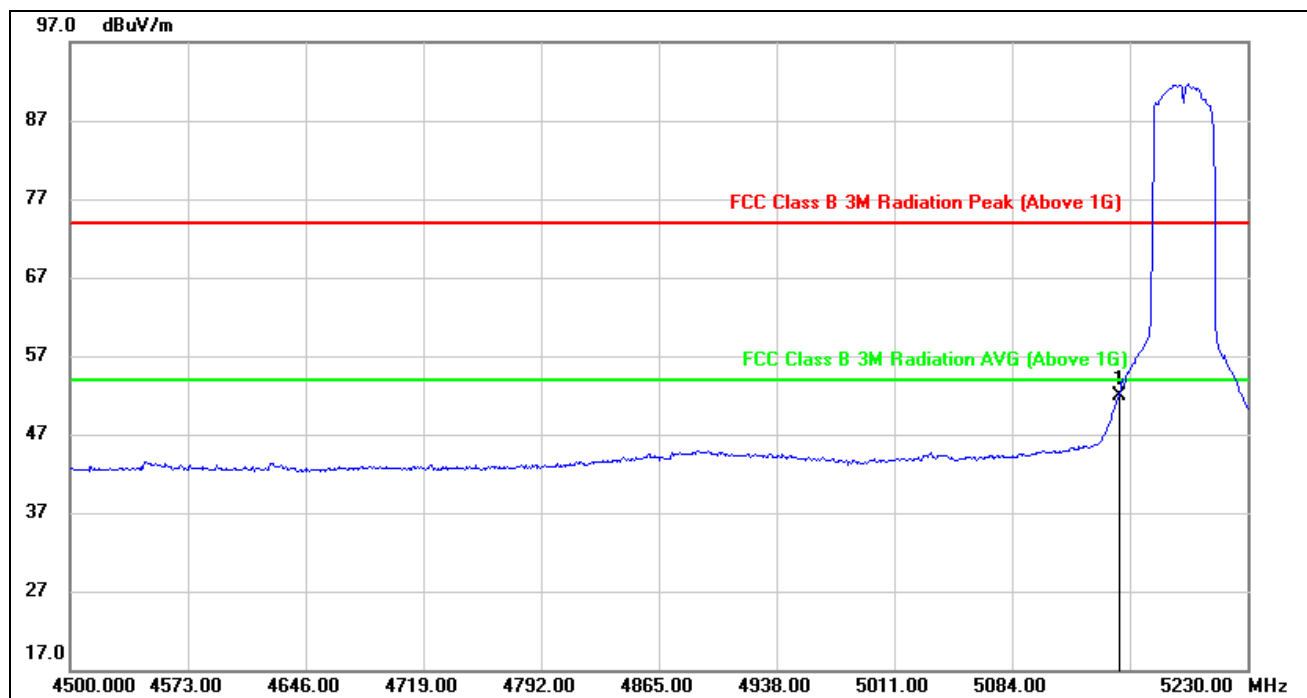


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	27.79	40.40	68.19	74.00	-5.81	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



### AVG

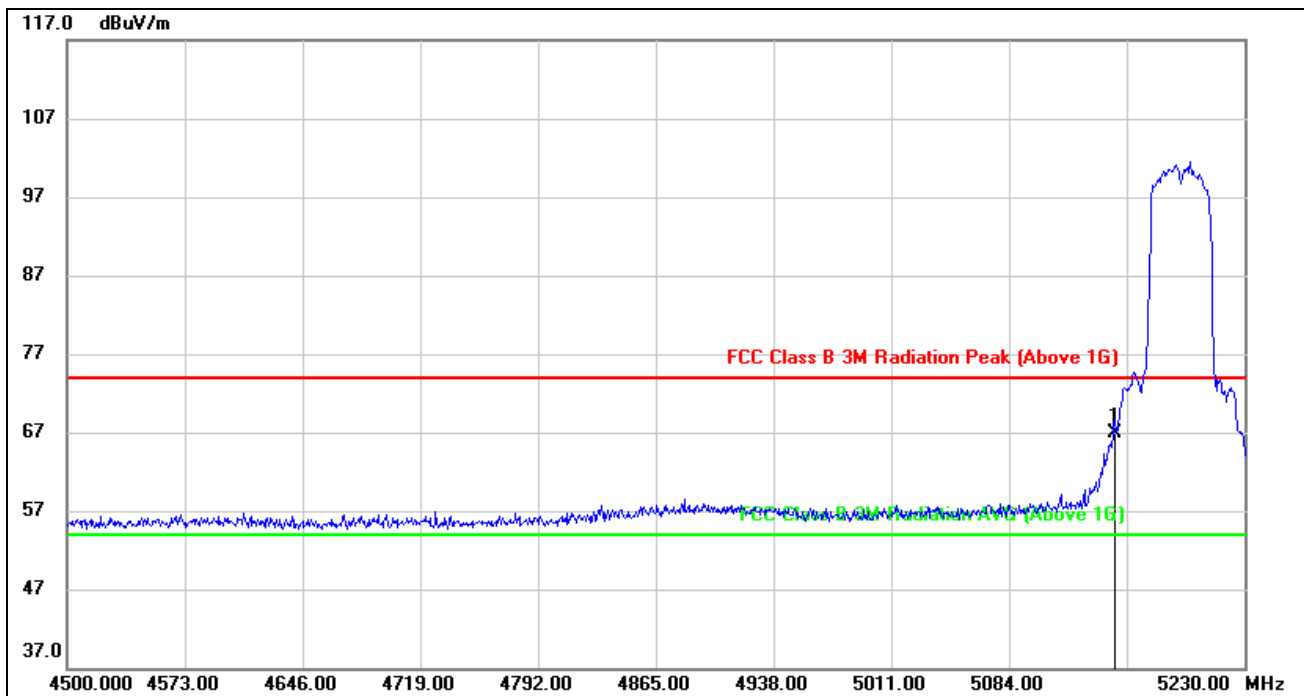


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	11.50	40.40	51.90	54.00	-2.10	AVG

Note: 1. Measurement = Reading Level + Correct Factor.  
2. AVG:  $VBW=1/Ton$  where: ton is transmit duration.  
3. For duty cycle, please refer to clause 6.1.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



**VERTICAL RESULTS**  
**PEAK**

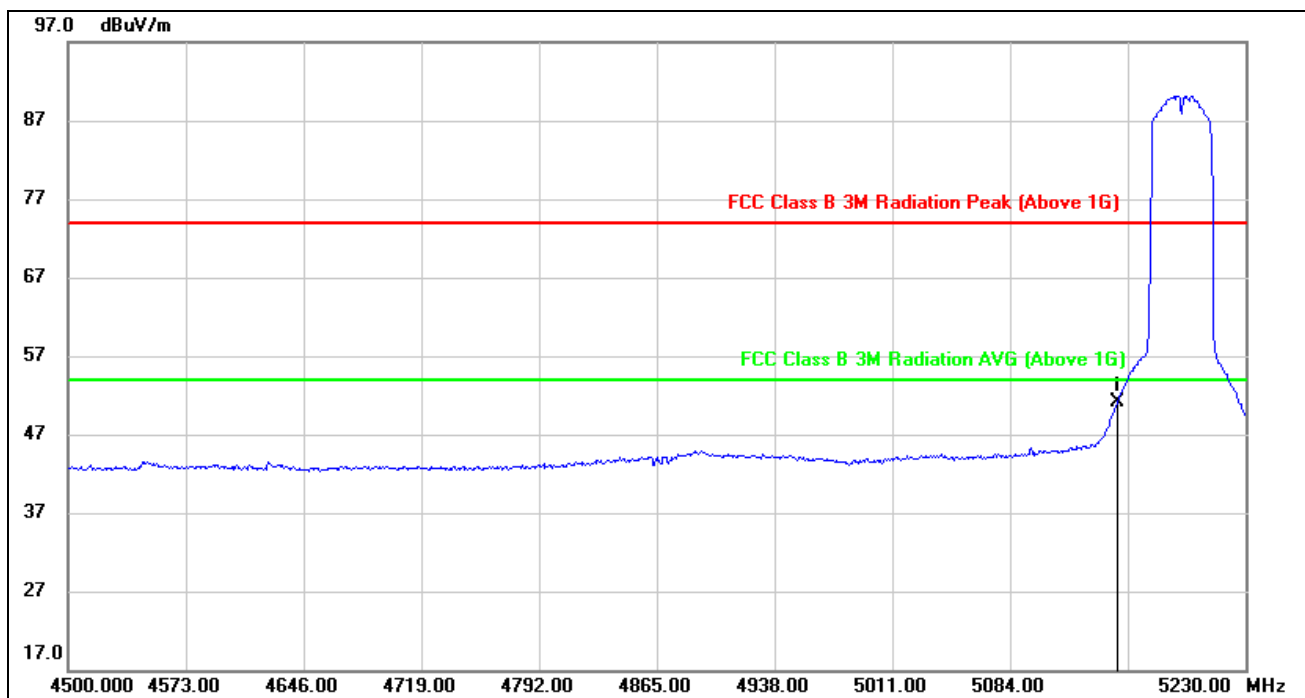


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	26.36	40.60	66.96	74.00	-7.04	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



### AVG



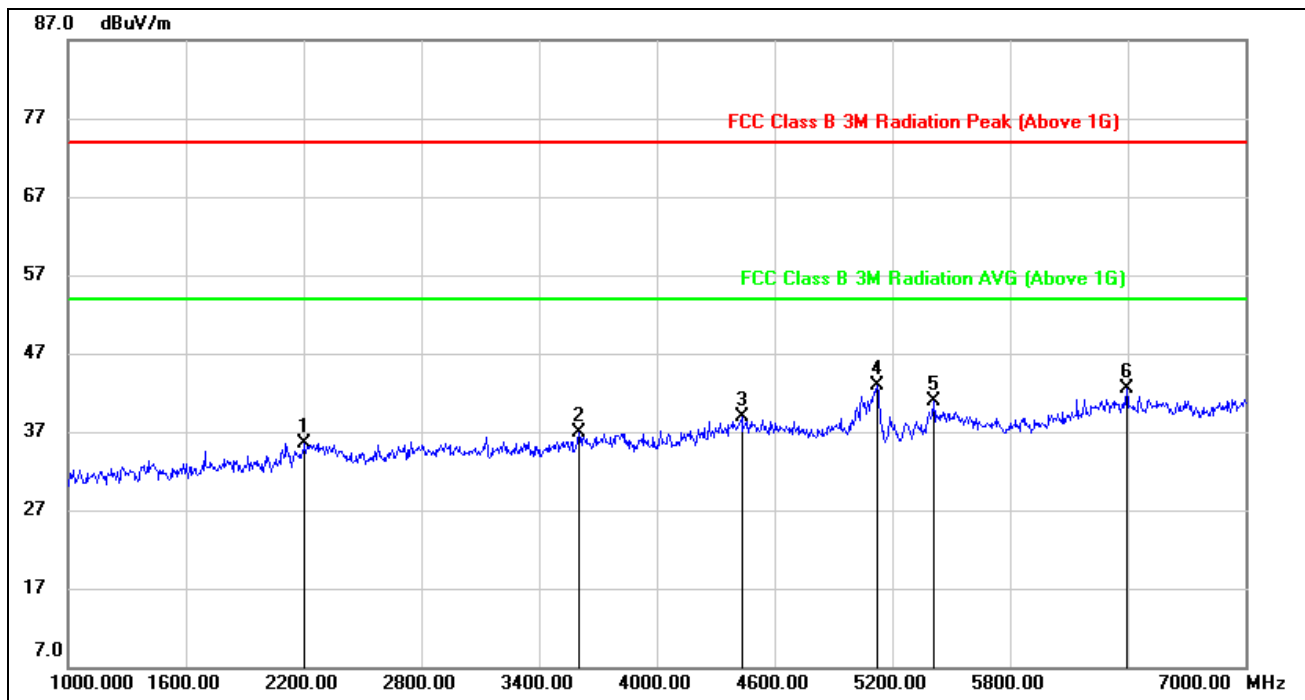
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5150.000	10.47	40.60	51.07	54.00	-2.93	AVG

Note: 1. Measurement = Reading Level + Correct Factor.  
2. AVG:  $VBW=1/Ton$  where: ton is transmit duration.  
3. For duty cycle, please refer to clause 6.1.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



## HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL

### HORIZONTAL RESULTS 1-7GHz

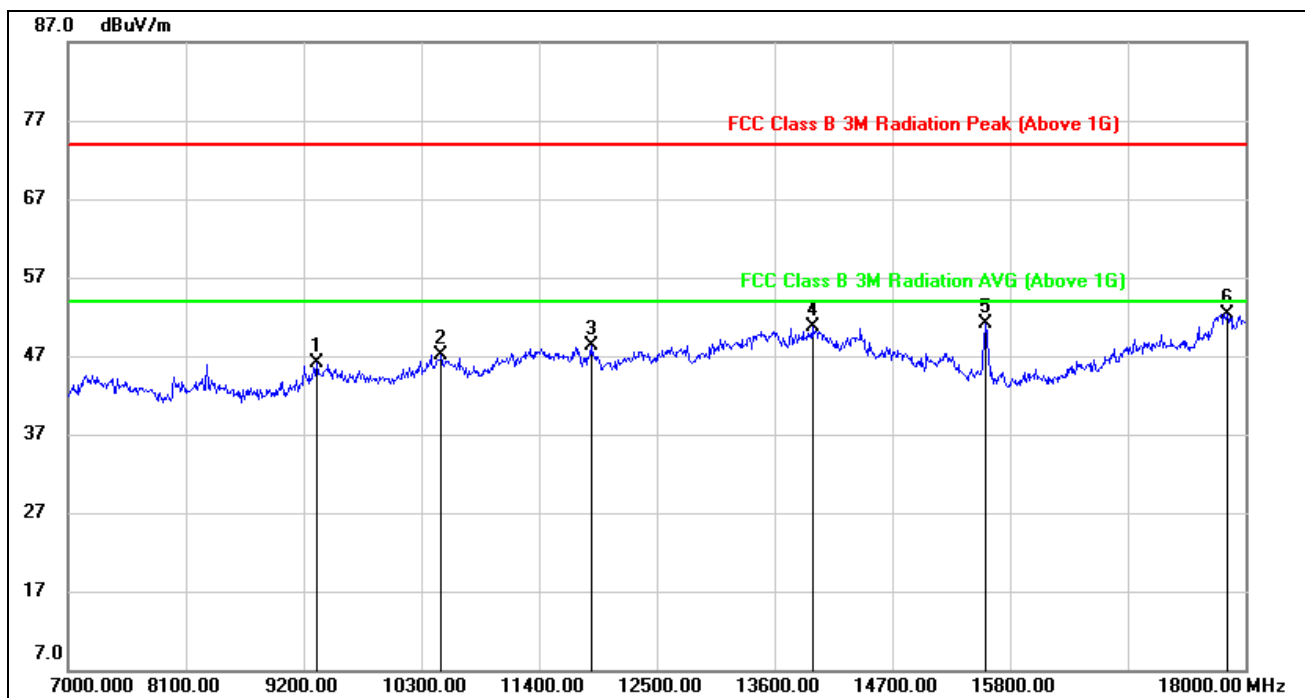


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2206.000	44.38	-8.82	35.56	74.00	-38.44	peak
2	3604.000	42.47	-5.63	36.84	74.00	-37.16	peak
3	4432.000	41.38	-2.47	38.91	74.00	-35.09	peak
4	5122.000	43.33	-0.38	42.95	74.00	-31.05	peak
5	5410.000	40.46	0.39	40.85	74.00	-33.15	peak
6	6394.000	39.23	3.25	42.48	74.00	-31.52	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### HORIZONTAL RESULTS 7-18GHz



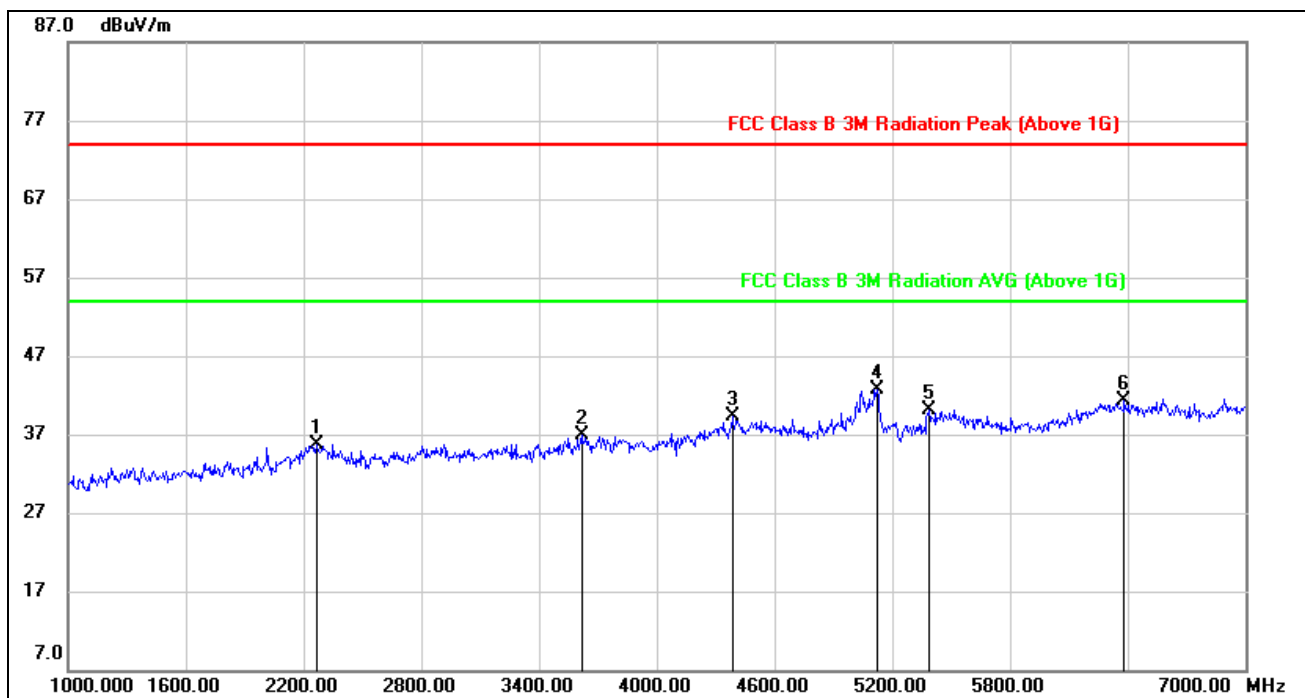
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9321.000	36.86	9.19	46.05	74.00	-27.95	peak
2	10487.000	35.31	11.85	47.16	74.00	-26.84	peak
3	11884.000	33.45	14.93	48.38	74.00	-25.62	peak
4	13952.000	32.14	18.56	50.70	74.00	-23.30	peak
5	15569.000	36.12	14.91	51.03	74.00	-22.97	peak
6	17835.000	28.13	24.25	52.38	74.00	-21.62	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.





**VERTICAL RESULTS**  
**1-7GHz**

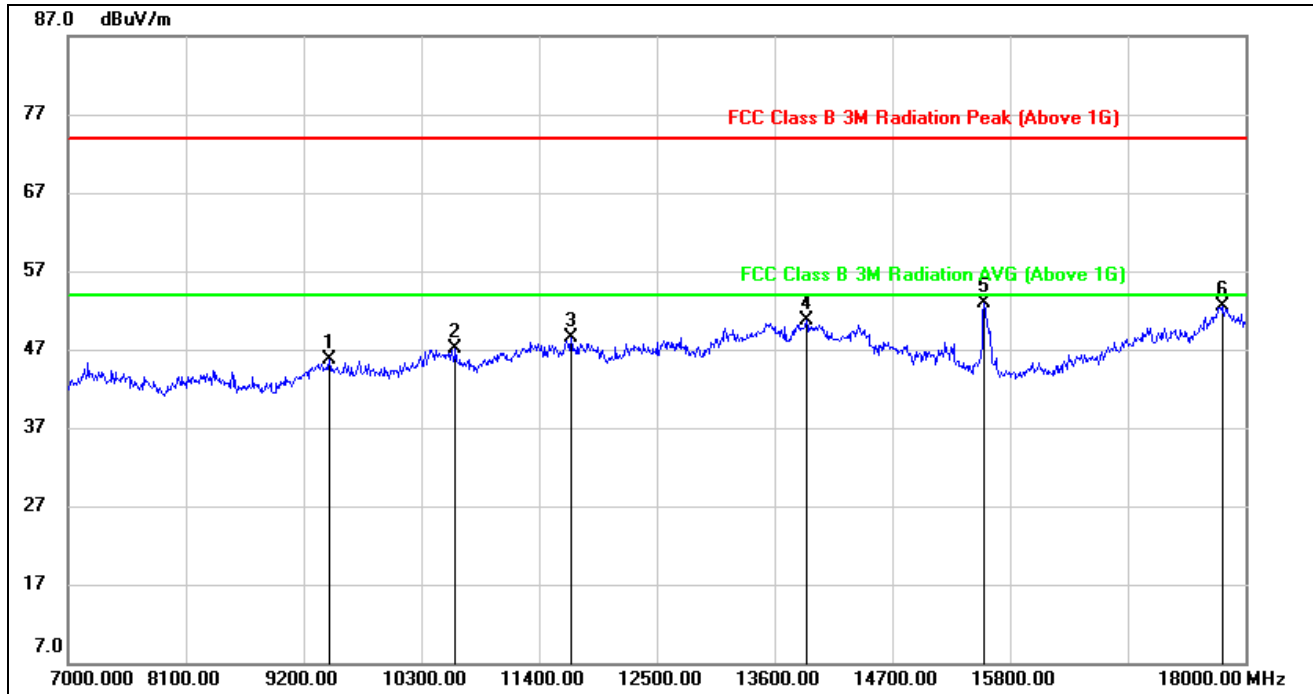


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2266.000	44.04	-8.31	35.73	74.00	-38.27	peak
2	3616.000	42.29	-5.48	36.81	74.00	-37.19	peak
3	4384.000	41.83	-2.58	39.25	74.00	-34.75	peak
4	5122.000	42.97	-0.18	42.79	74.00	-31.21	peak
5	5386.000	39.90	0.22	40.12	74.00	-33.88	peak
6	6382.000	37.94	3.31	41.25	74.00	-32.75	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### 7-18GHz

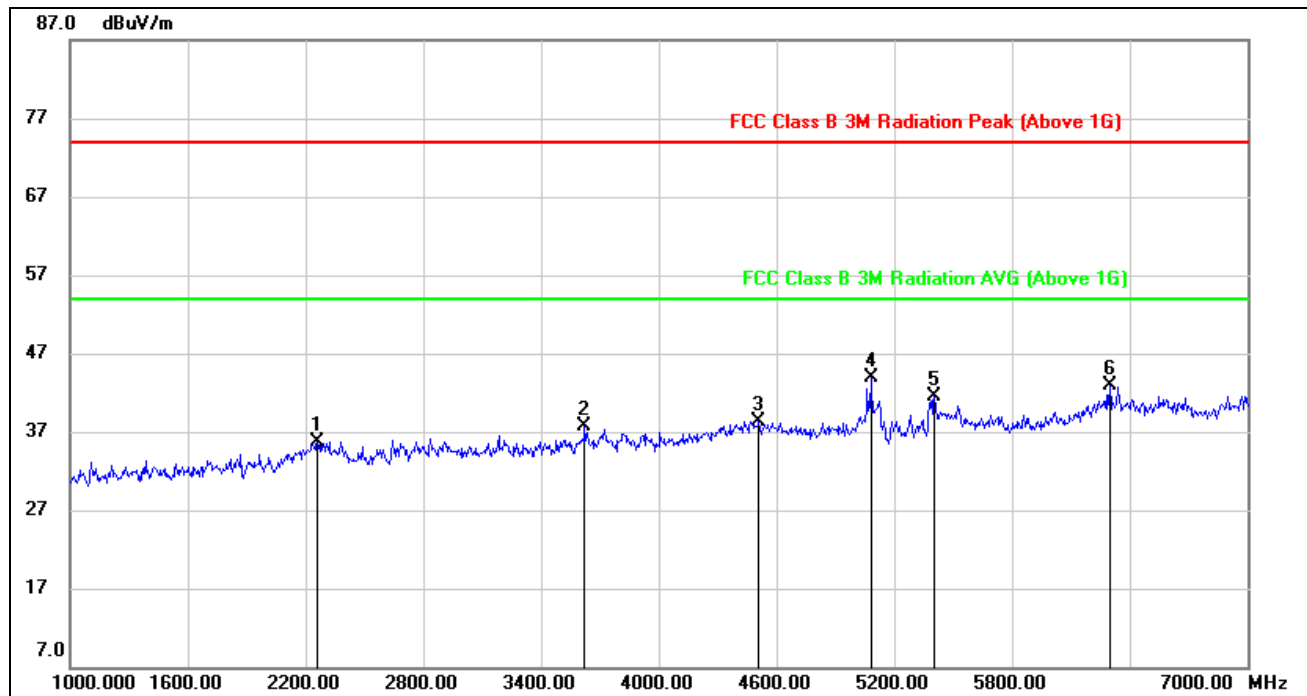


Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



## HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL

### HORIZONTAL RESULTS 1-7GHz

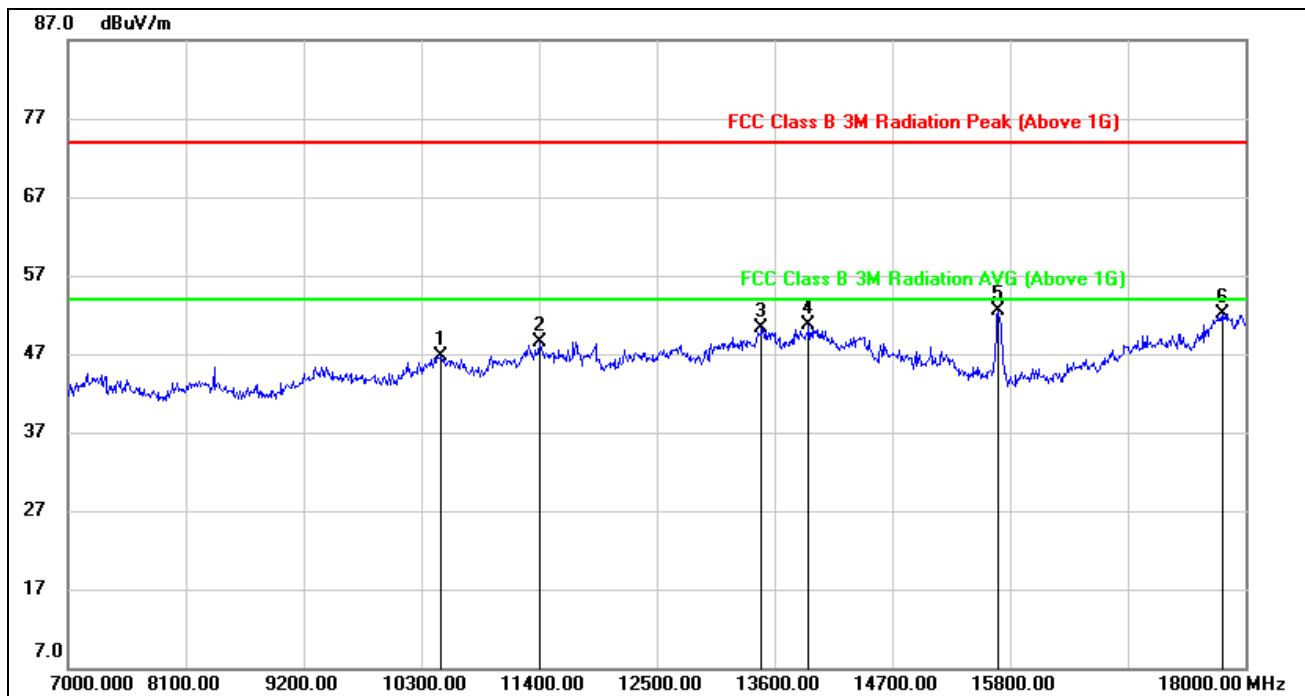


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2260.000	44.13	-8.37	35.76	74.00	-38.24	peak
2	3622.000	43.16	-5.50	37.66	74.00	-36.34	peak
3	4510.000	40.54	-2.24	38.30	74.00	-35.70	peak
4	5080.000	44.48	-0.57	43.91	74.00	-30.09	peak
5	5404.000	41.12	0.35	41.47	74.00	-32.53	peak
6	6298.000	39.61	3.24	42.85	74.00	-31.15	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### HORIZONTAL RESULTS 7-18GHz

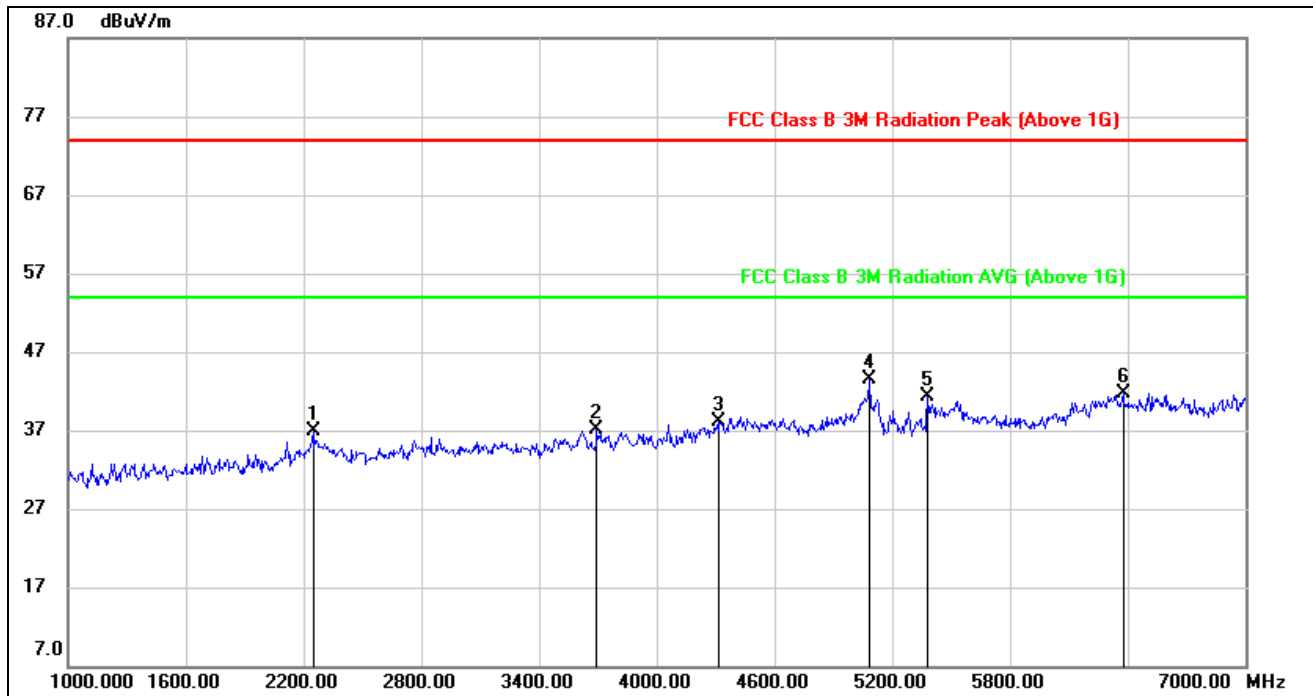


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10476.000	34.93	11.80	46.73	74.00	-27.27	peak
2	11400.000	34.83	13.74	48.57	74.00	-25.43	peak
3	13479.000	32.16	18.08	50.24	74.00	-23.76	peak
4	13919.000	32.12	18.55	50.67	74.00	-23.33	peak
5	15690.000	37.22	15.34	52.56	74.00	-21.44	peak
6	17780.000	28.09	23.98	52.07	74.00	-21.93	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



**VERTICAL RESULTS**  
**1-7GHz**

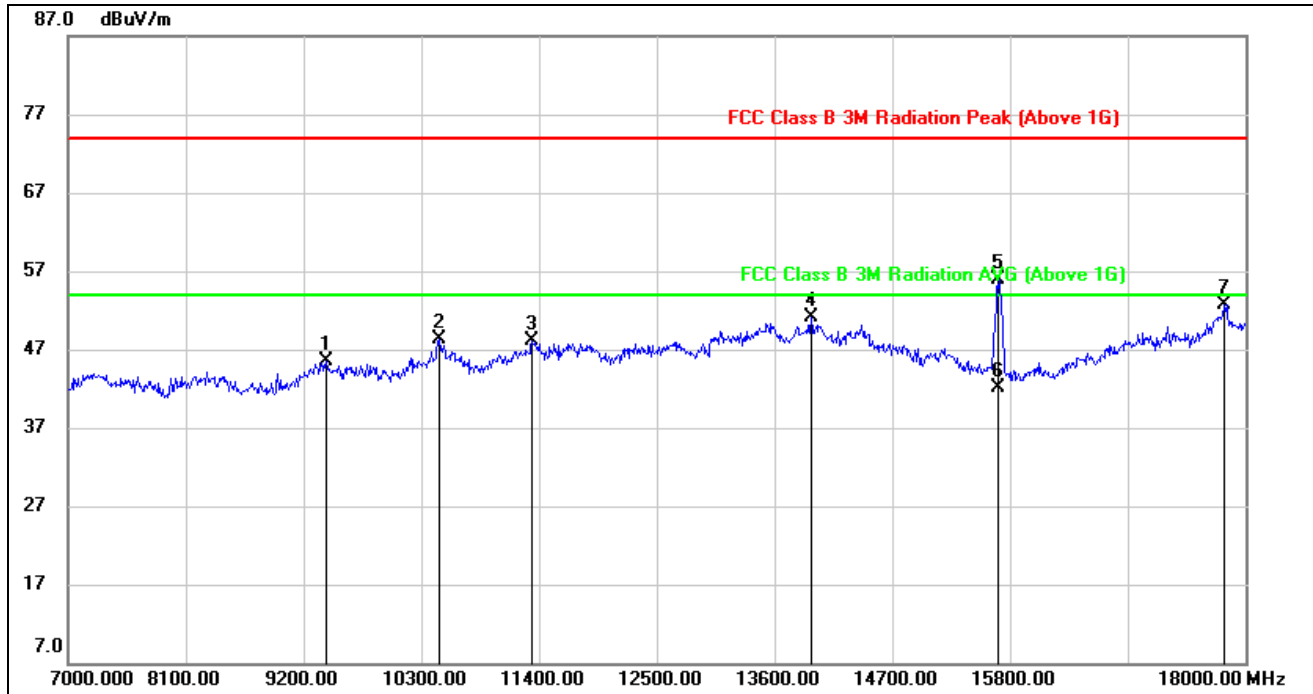


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2248.000	45.27	-8.40	36.87	74.00	-37.13	peak
2	3694.000	42.11	-5.01	37.10	74.00	-36.90	peak
3	4318.000	40.93	-2.92	38.01	74.00	-35.99	peak
4	5086.000	43.90	-0.38	43.52	74.00	-30.48	peak
5	5380.000	41.20	0.18	41.38	74.00	-32.62	peak
6	6376.000	38.49	3.31	41.80	74.00	-32.20	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### 7-18GHz



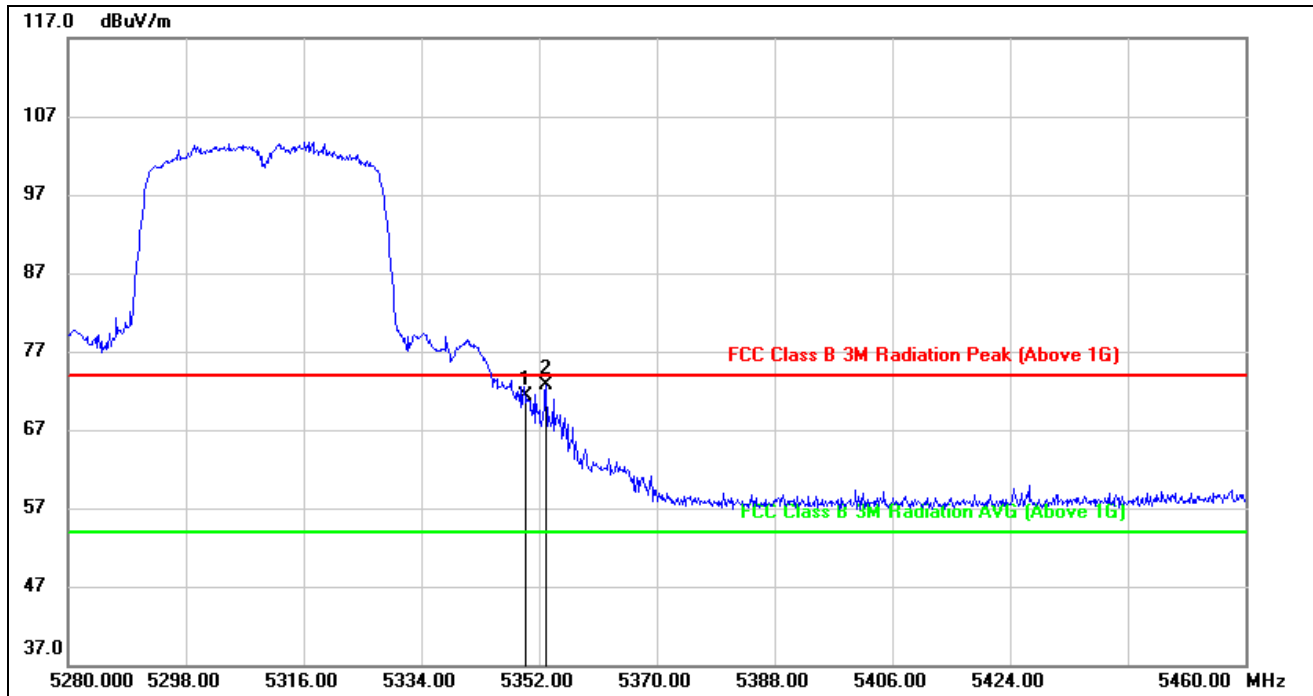
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9409.000	36.01	9.57	45.58	74.00	-28.42	peak
2	10465.000	36.42	11.84	48.26	74.00	-25.74	peak
3	11334.000	34.59	13.52	48.11	74.00	-25.89	peak
4	13941.000	32.49	18.67	51.16	74.00	-22.84	peak
5	15690.000	40.23	15.58	55.81	74.00	-18.19	peak
6	15690.000	26.55	15.58	42.13	54.00	-11.87	AVG
7	17802.000	28.19	24.61	52.80	74.00	-21.20	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



**7.3.2. UNII-2A BAND**  
**RESTRICTED BANDEGE HIGH CHANNEL**

**HORIZONTAL RESULTS**  
**PEAK**

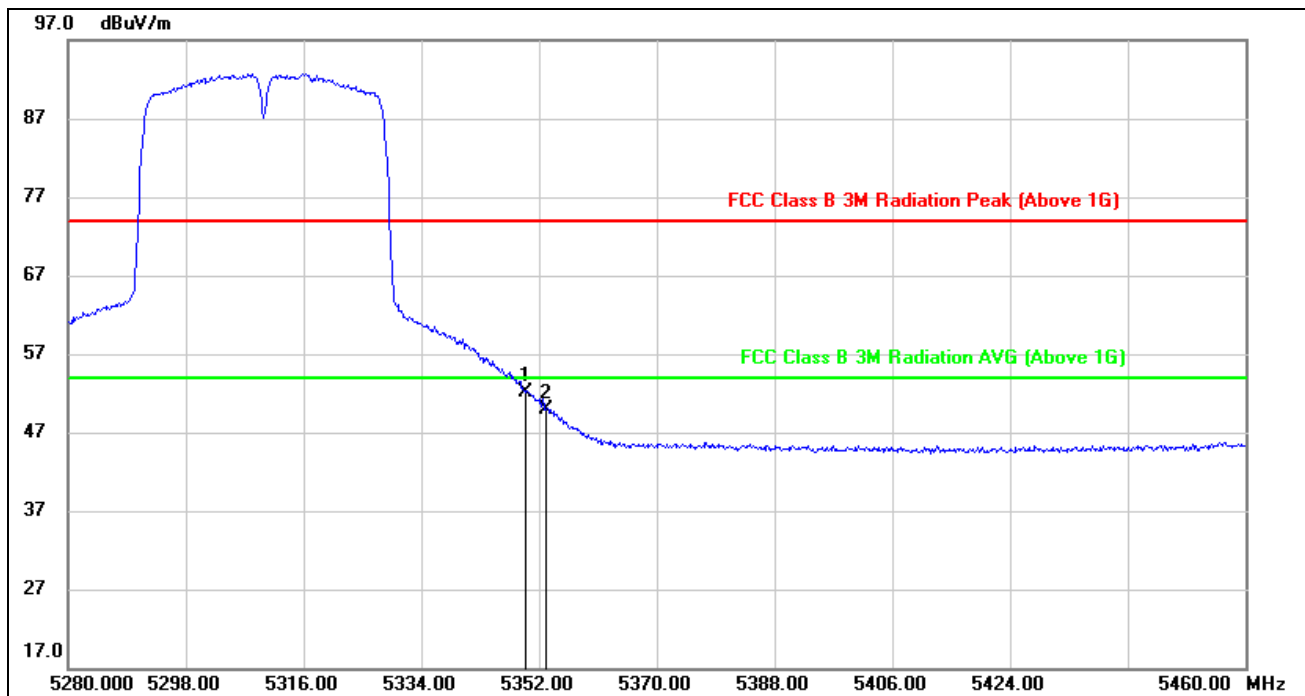


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	30.91	40.44	71.35	74.00	-2.65	peak
2	5353.080	32.23	40.46	72.69	74.00	-1.31	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



**AVG**



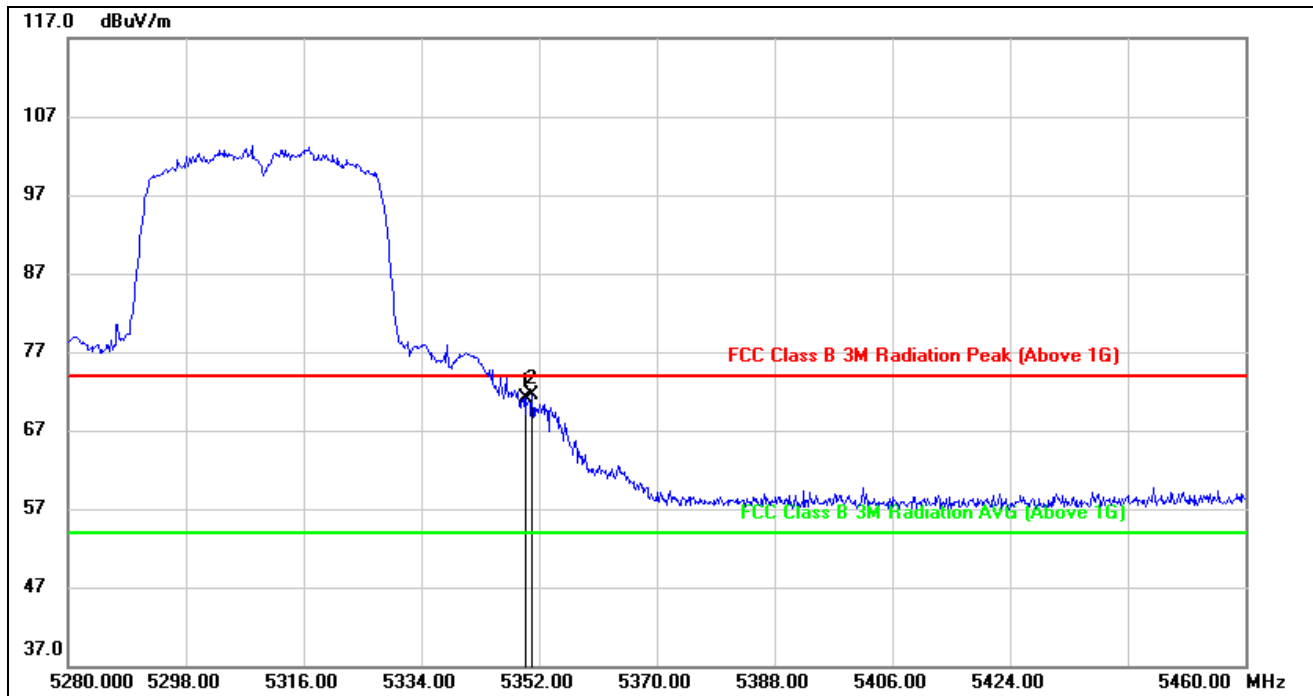
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	11.58	40.44	52.02	54.00	-1.98	AVG
2	5353.080	9.51	40.46	49.97	54.00	-4.03	AVG

Note: 1. Measurement = Reading Level + Correct Factor.  
2. AVG:  $VBW=1/Ton$  where: ton is transmit duration.  
3. For duty cycle, please refer to clause 6.1.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.





**VERTICAL RESULTS**  
**PEAK**

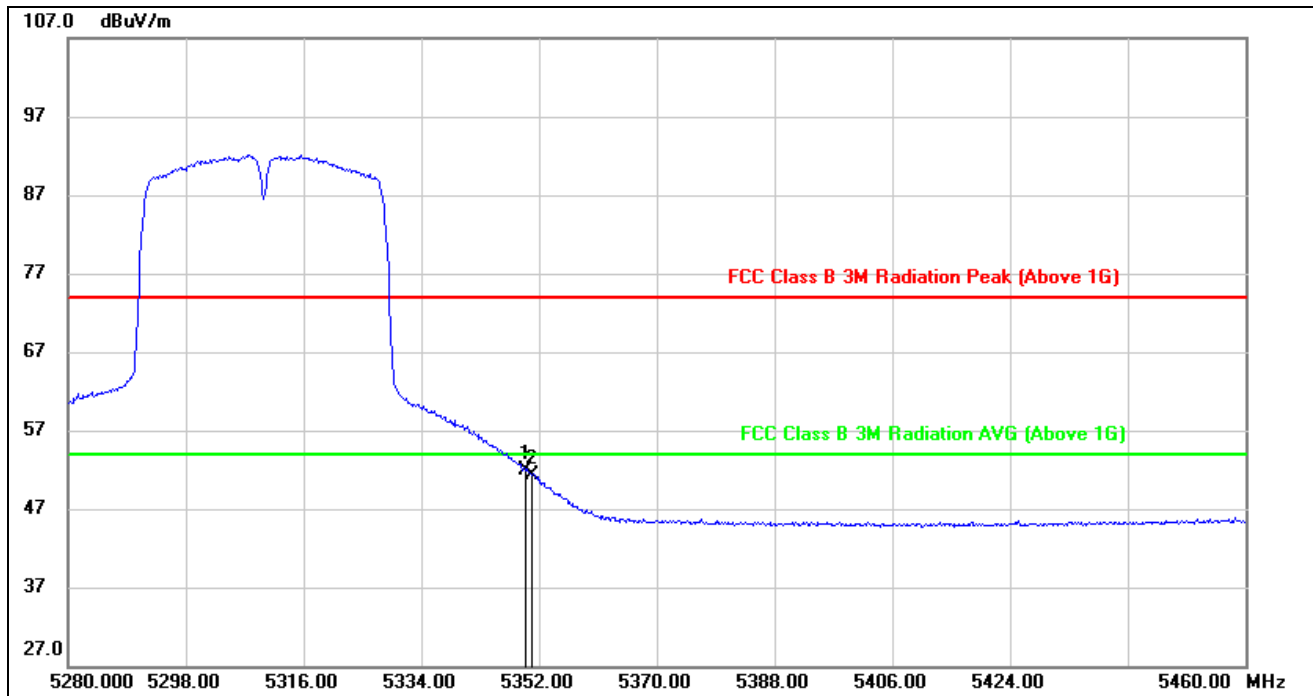


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	30.65	40.54	71.19	74.00	-2.81	peak
2	5350.920	30.87	40.54	71.41	74.00	-2.59	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



### AVG



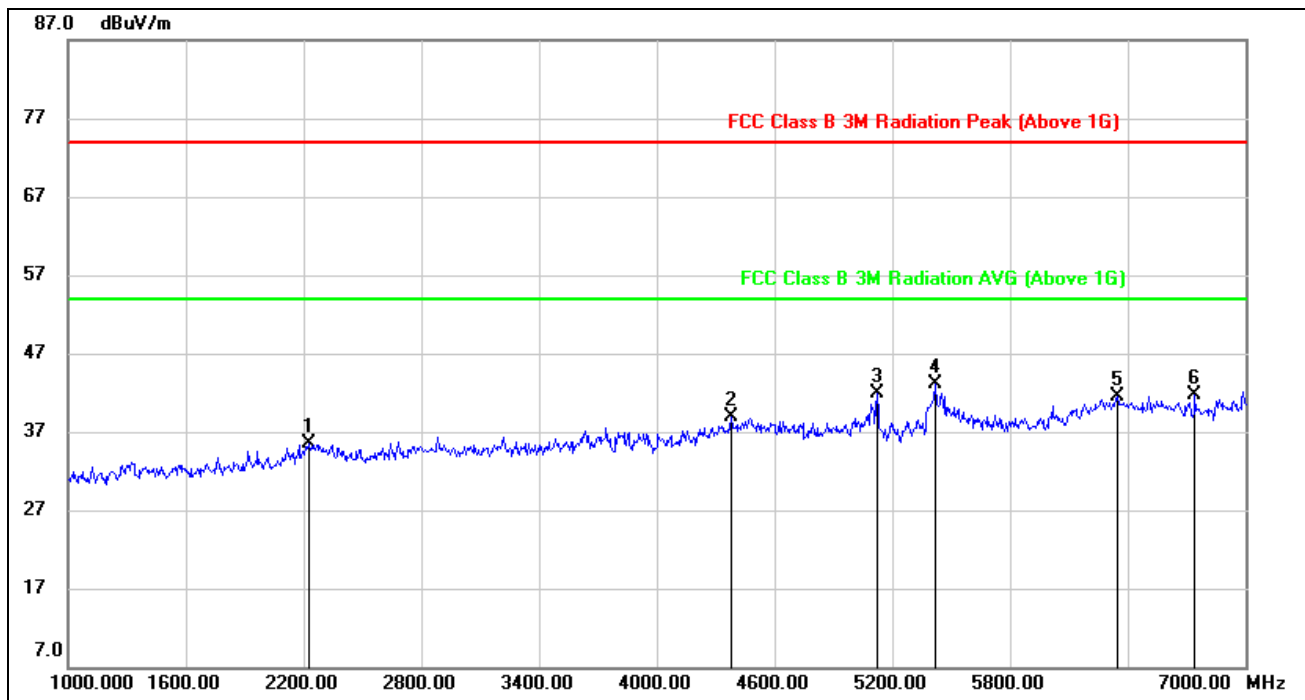
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	11.32	40.54	51.86	54.00	-2.14	AVG
2	5350.920	10.79	40.54	51.33	54.00	-2.67	AVG

Note: 1. Measurement = Reading Level + Correct Factor.  
2. AVG:  $VBW=1/Ton$  where: ton is transmit duration.  
3. For duty cycle, please refer to clause 6.1.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



## HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL

### HORIZONTAL RESULTS 1-7GHz

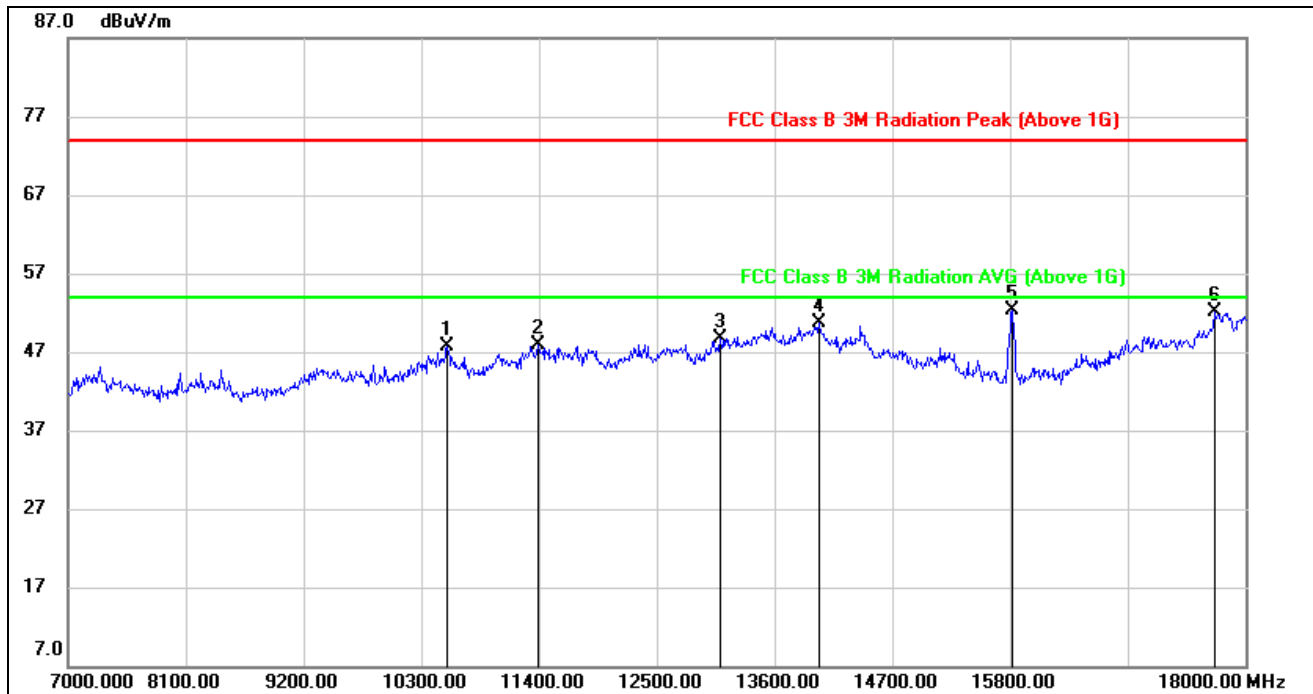


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2224.000	44.21	-8.64	35.57	74.00	-38.43	peak
2	4378.000	41.53	-2.70	38.83	74.00	-35.17	peak
3	5122.000	42.30	-0.38	41.92	74.00	-32.08	peak
4	5422.000	42.66	0.48	43.14	74.00	-30.86	peak
5	6346.000	38.33	3.25	41.58	74.00	-32.42	peak
6	6742.000	37.54	4.15	41.69	74.00	-32.31	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### HORIZONTAL RESULTS 7-18GHz

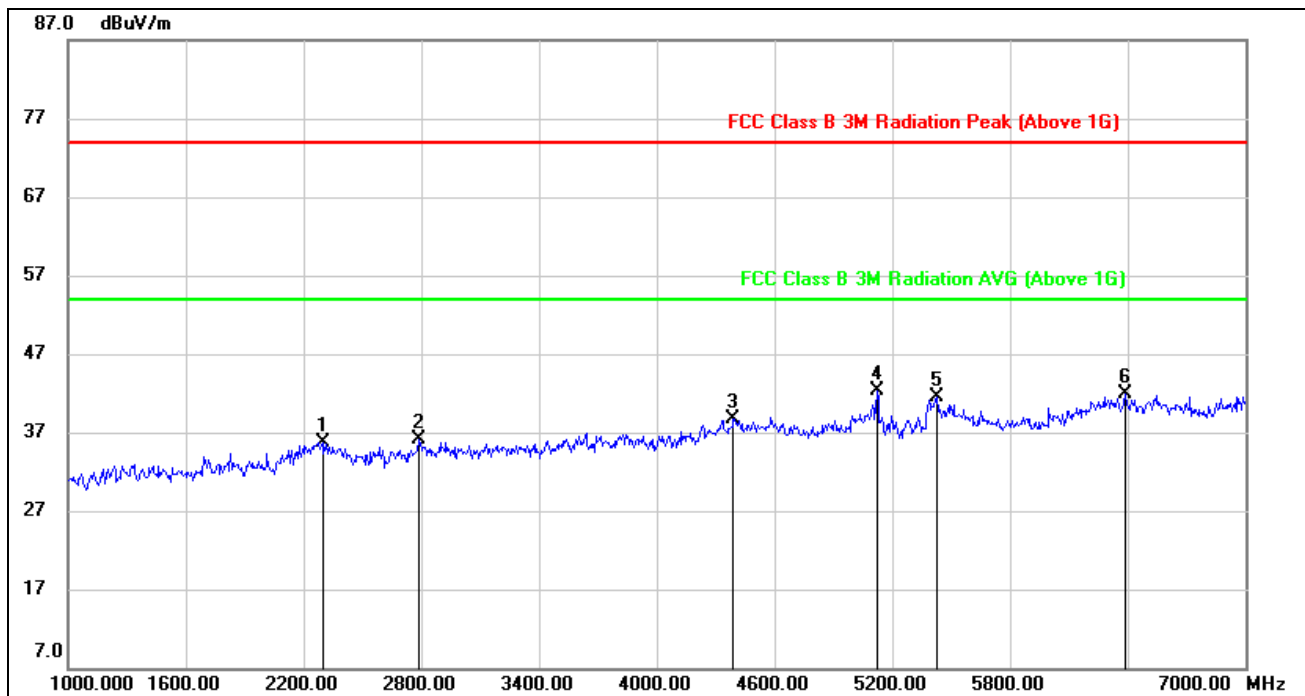


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10542.000	35.77	11.97	47.74	74.00	-26.26	peak
2	11389.000	34.39	13.59	47.98	74.00	-26.02	peak
3	13094.000	32.30	16.47	48.77	74.00	-25.23	peak
4	14018.000	32.19	18.47	50.66	74.00	-23.34	peak
5	15822.000	36.74	15.47	52.21	74.00	-21.79	peak
6	17714.000	28.67	23.46	52.13	74.00	-21.87	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



**VERTICAL RESULTS**  
**1-7GHz**

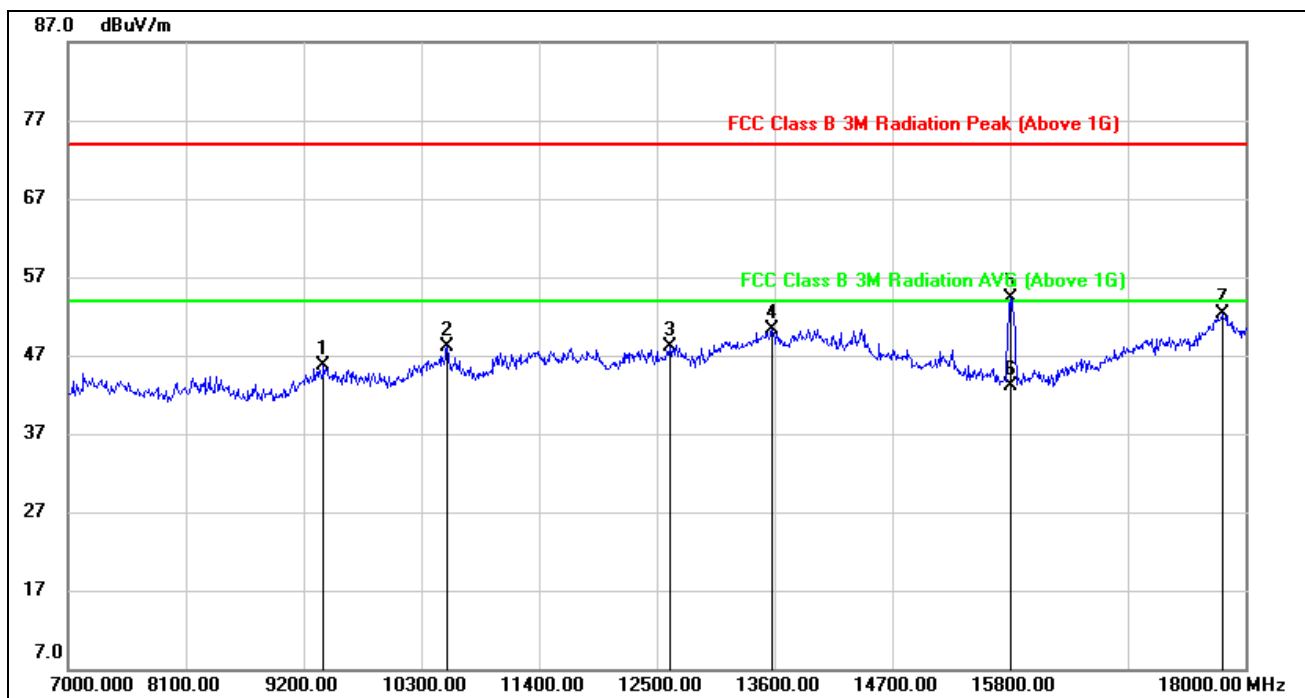


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2296.000	43.86	-8.18	35.68	74.00	-38.32	peak
2	2788.000	43.95	-7.79	36.16	74.00	-37.84	peak
3	4390.000	41.29	-2.55	38.74	74.00	-35.26	peak
4	5122.000	42.41	-0.18	42.23	74.00	-31.77	peak
5	5428.000	41.04	0.52	41.56	74.00	-32.44	peak
6	6388.000	38.47	3.34	41.81	74.00	-32.19	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### 7-18GHz



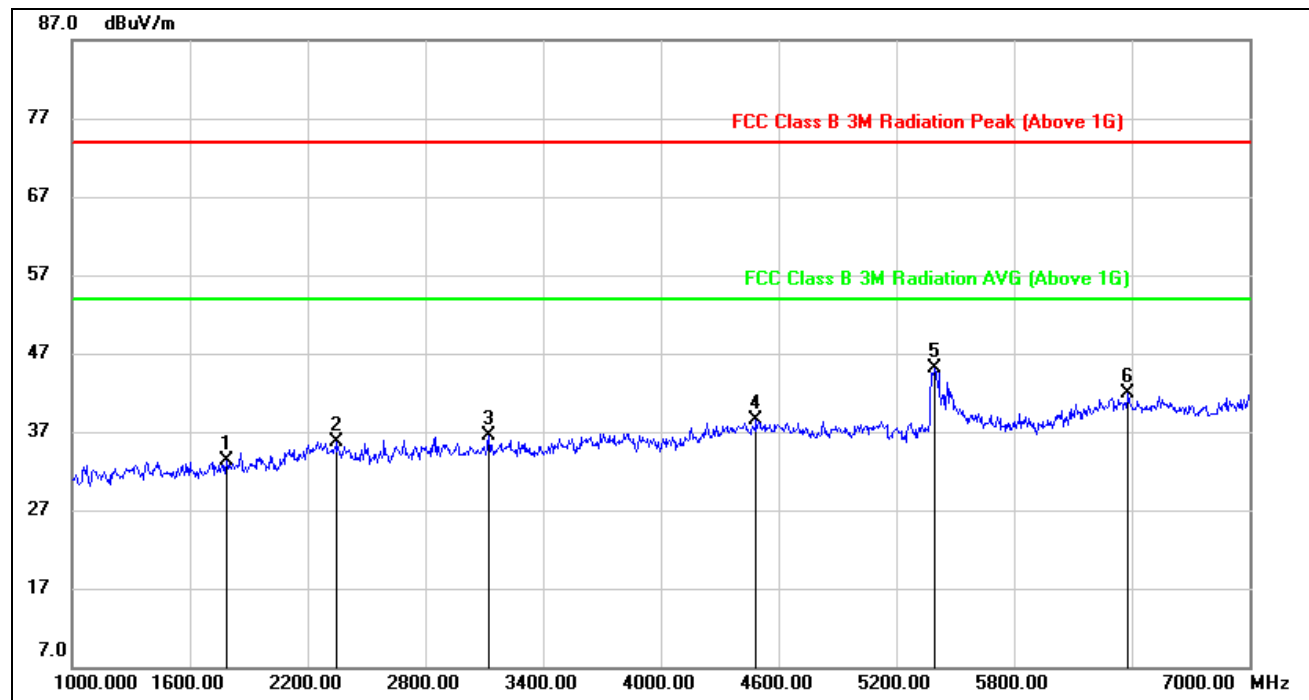
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9387.000	36.11	9.54	45.65	74.00	-28.35	peak
2	10542.000	36.21	11.90	48.11	74.00	-25.89	peak
3	12621.000	32.55	15.50	48.05	74.00	-25.95	peak
4	13578.000	31.78	18.58	50.36	74.00	-23.64	peak
5	15810.000	38.62	15.68	54.30	74.00	-19.70	peak
6	15810.000	27.48	15.68	43.16	54.00	-10.84	AVG
7	17780.000	27.88	24.38	52.26	74.00	-21.74	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



## HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL

### HORIZONTAL RESULTS 1-7GHz

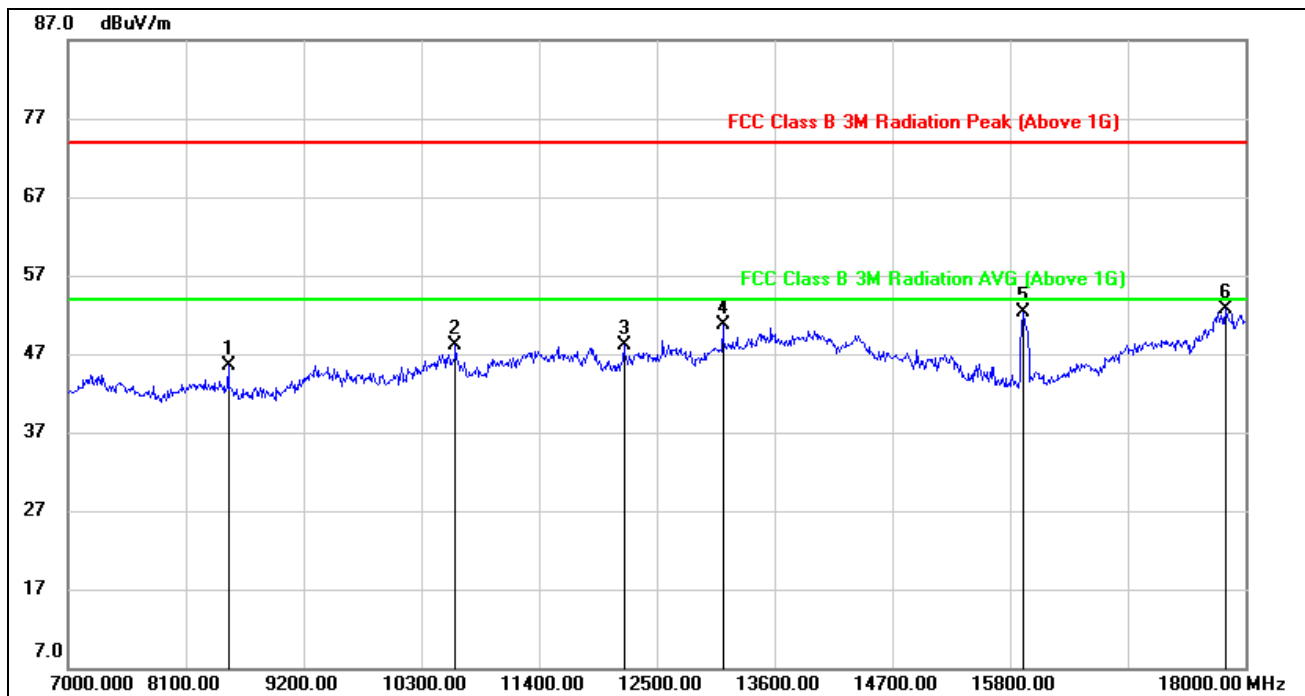


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1786.000	45.04	-11.79	33.25	74.00	-40.75	peak
2	2350.000	44.35	-8.69	35.66	74.00	-38.34	peak
3	3124.000	43.22	-6.79	36.43	74.00	-37.57	peak
4	4486.000	40.78	-2.29	38.49	74.00	-35.51	peak
5	5398.000	44.72	0.30	45.02	74.00	-28.98	peak
6	6382.000	38.56	3.25	41.81	74.00	-32.19	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### HORIZONTAL RESULTS 7-18GHz



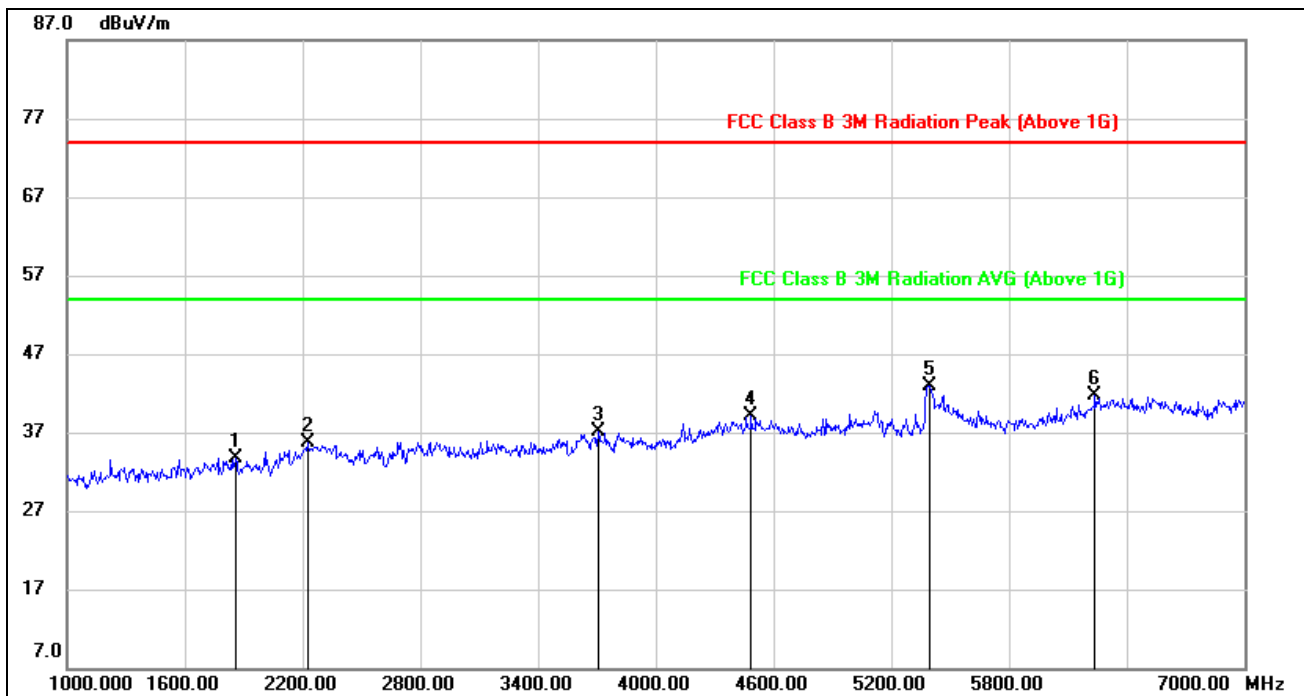
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8496.000	38.50	6.99	45.49	74.00	-28.51	peak
2	10619.000	36.28	11.82	48.10	74.00	-25.90	peak
3	12192.000	33.95	14.21	48.16	74.00	-25.84	peak
4	13116.000	34.24	16.46	50.70	74.00	-23.30	peak
5	15921.000	37.37	14.97	52.34	74.00	-21.66	peak
6	17813.000	28.36	24.25	52.61	74.00	-21.39	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.





**VERTICAL RESULTS**  
**1-7GHz**

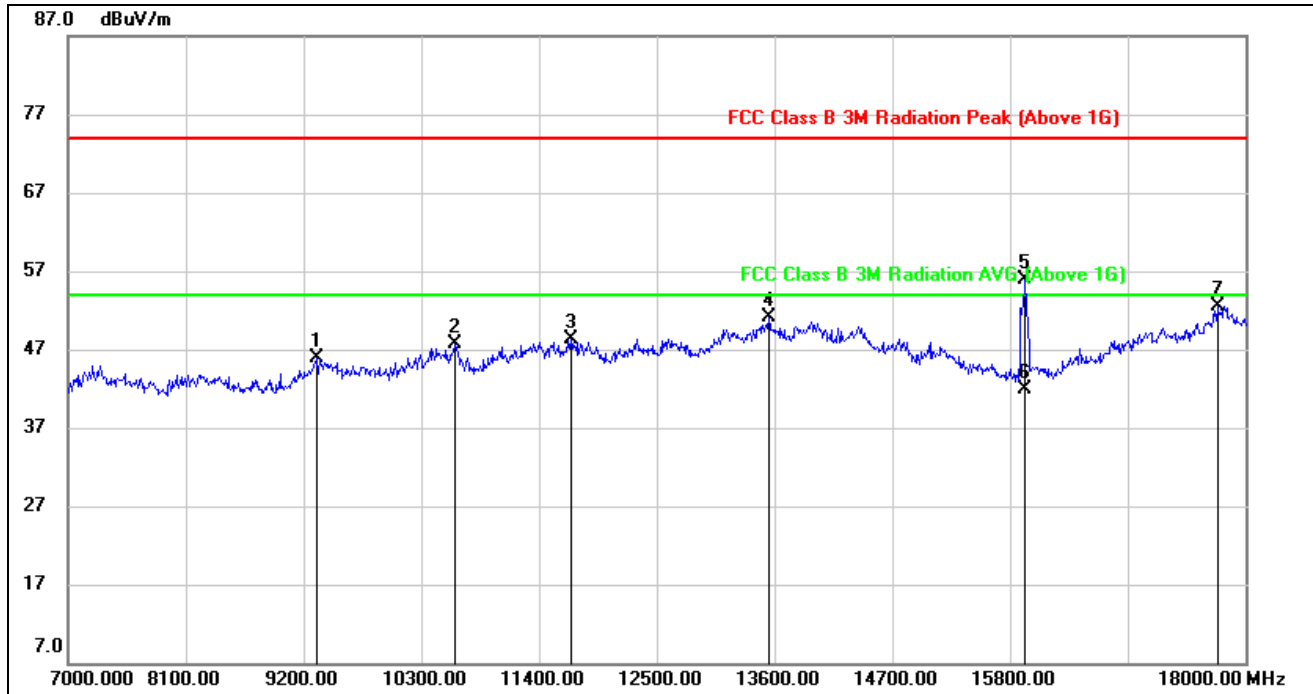


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1858.000	45.35	-11.55	33.80	74.00	-40.20	peak
2	2224.000	44.36	-8.64	35.72	74.00	-38.28	peak
3	3706.000	42.02	-4.98	37.04	74.00	-36.96	peak
4	4486.000	41.23	-2.19	39.04	74.00	-34.96	peak
5	5392.000	42.67	0.27	42.94	74.00	-31.06	peak
6	6238.000	38.60	3.04	41.64	74.00	-32.36	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### 7-18GHz



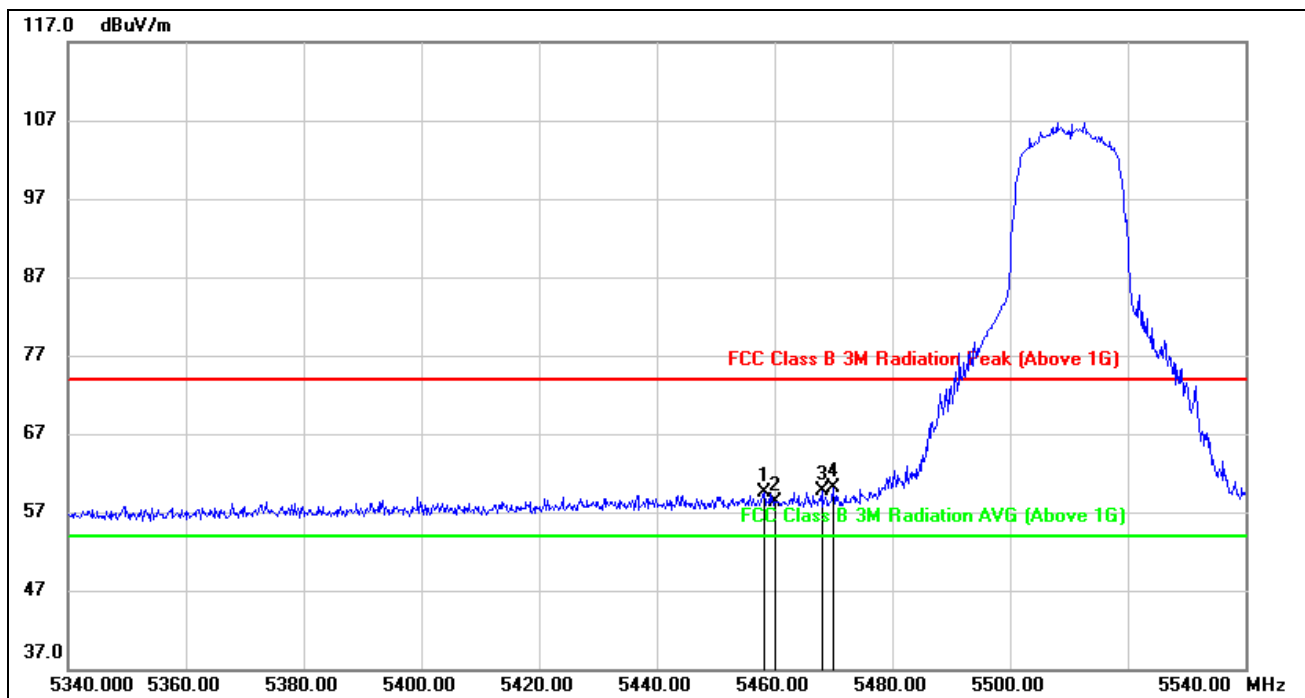
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9321.000	36.59	9.34	45.93	74.00	-28.07	peak
2	10608.000	35.78	11.98	47.76	74.00	-26.24	peak
3	11697.000	33.57	14.79	48.36	74.00	-25.64	peak
4	13545.000	32.33	18.86	51.19	74.00	-22.81	peak
5	15930.000	40.67	15.14	55.81	74.00	-18.19	peak
6	15930.000	26.73	15.14	41.87	54.00	-12.13	AVG
7	17736.000	28.75	23.80	52.55	74.00	-21.45	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



**7.3.3. UNII-2C BAND**  
**RESTRICTED BANDEGE LOW CHANNEL**

**HORIZONTAL RESULTS**  
**PEAK**

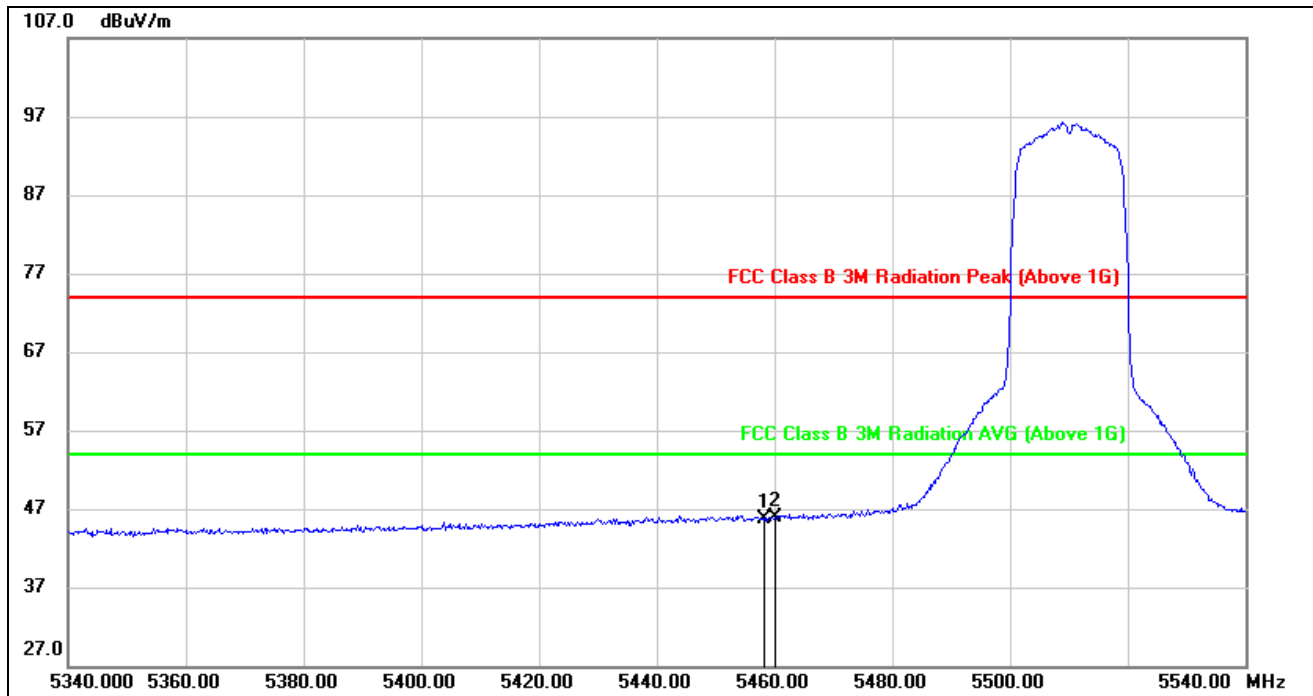


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5458.200	18.21	41.25	59.46	74.00	-14.54	peak
2	5460.000	16.94	41.26	58.20	74.00	-15.80	peak
3	5468.000	18.44	41.31	59.75	74.00	-14.25	peak
4	5470.000	18.81	41.33	60.14	74.00	-13.86	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4.\*indicates frequency out of the restricted bands  
5. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



### AVG

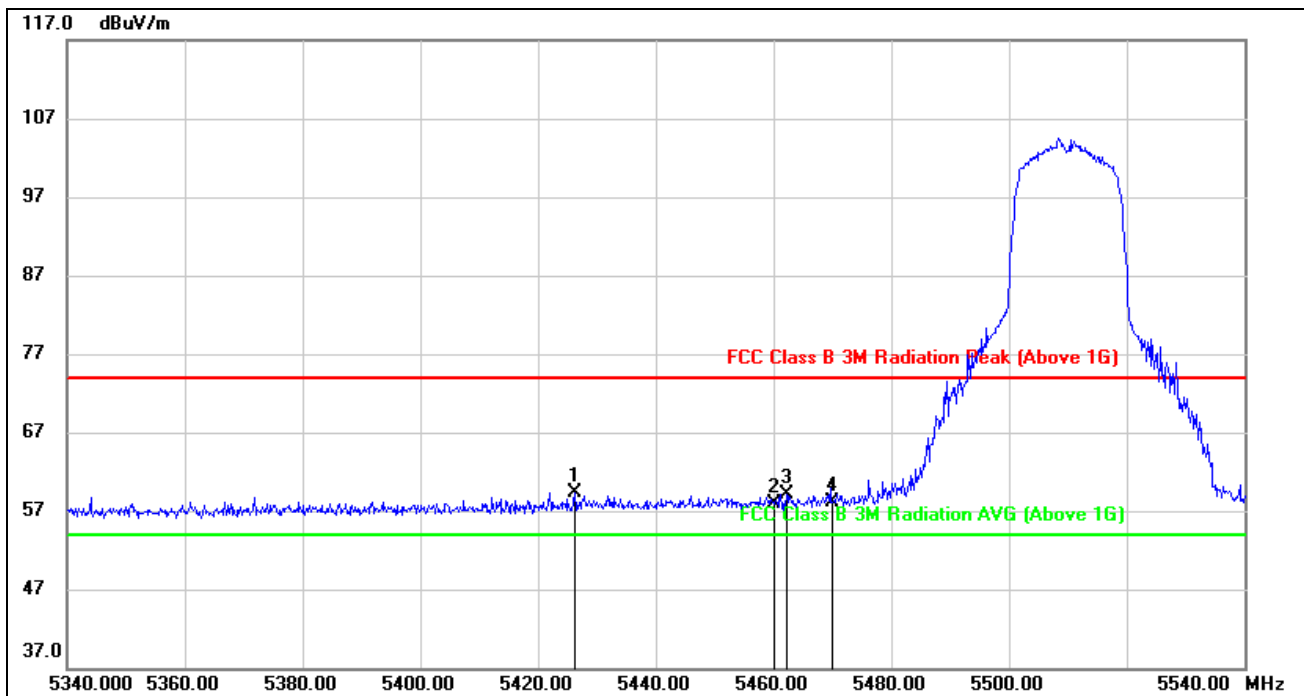


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5458.200	4.54	41.25	45.79	54.00	-8.21	AVG
2	5460.000	4.69	41.26	45.95	54.00	-8.05	AVG

Note: 1. Measurement = Reading Level + Correct Factor.  
2. AVG:  $VBW=1/Ton$  where: ton is transmit duration.  
3. For duty cycle, please refer to clause 6.1.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



**VERTICAL RESULTS**  
**PEAK**

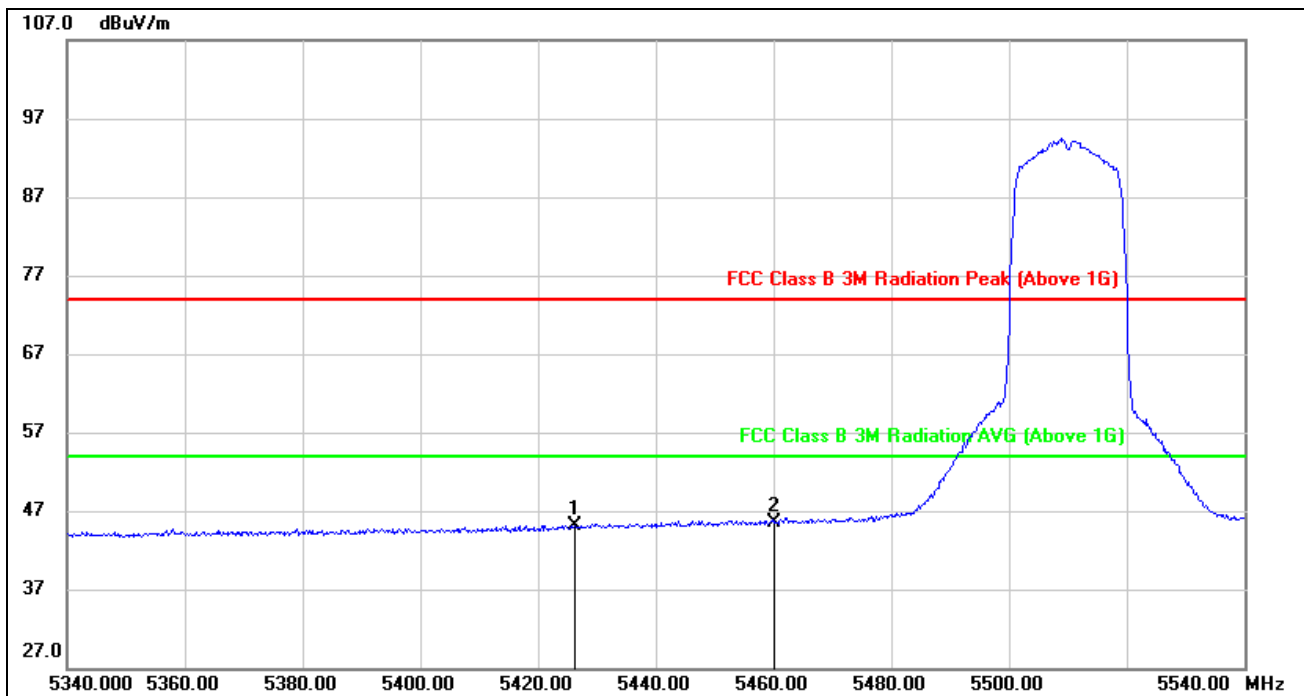


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5426.200	18.34	41.03	59.37	74.00	-14.63	peak
2	5460.000	16.64	41.26	57.90	74.00	-16.10	peak
3	5462.200	17.80	41.28	59.08	74.00	-14.92	peak
4	5470.000	16.70	41.33	58.03	74.00	-15.97	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4.\*indicates frequency out of the restricted bands  
5. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



### AVG



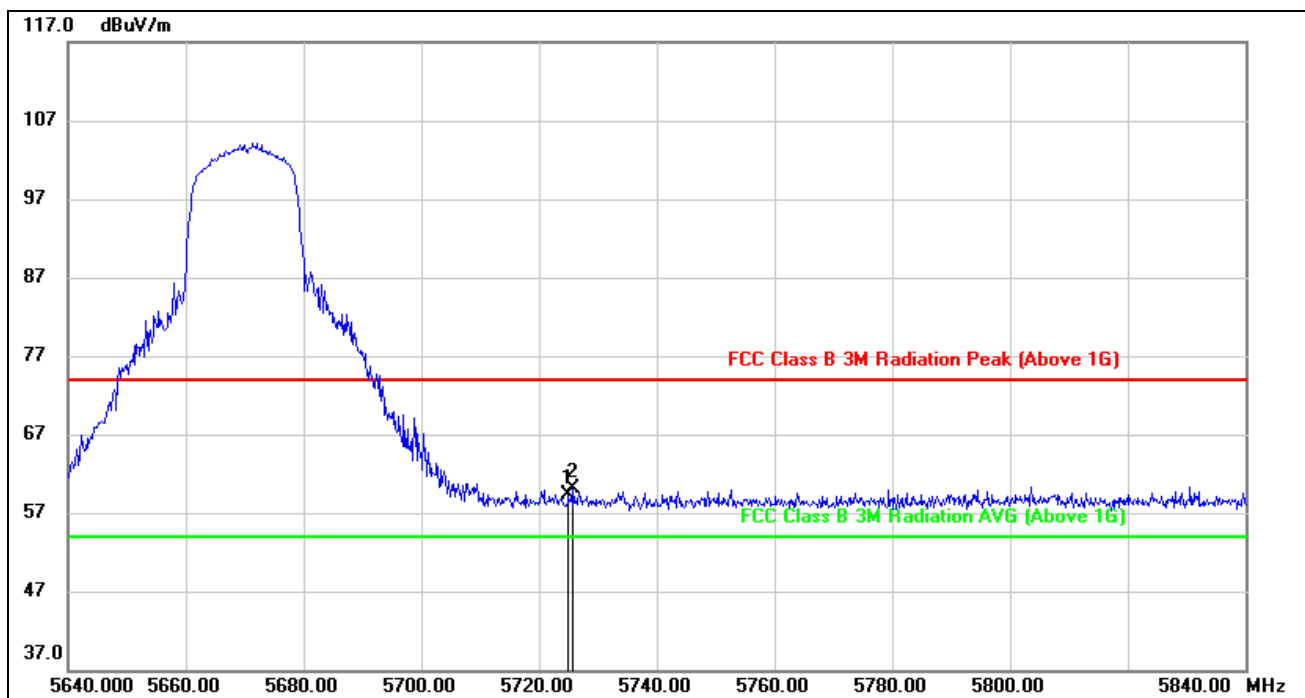
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5426.200	3.99	41.03	45.02	54.00	-8.98	AVG
2	5460.000	4.31	41.26	45.57	54.00	-8.43	AVG

Note: 1. Measurement = Reading Level + Correct Factor.  
2. AVG:  $VBW=1/T_{on}$  where:  $t_{on}$  is transmit duration.  
3. For duty cycle, please refer to clause 6.1.  
4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



## RESTRICTED BANDEDGE HIGH CHANNEL

### HORIZONTAL RESULTS

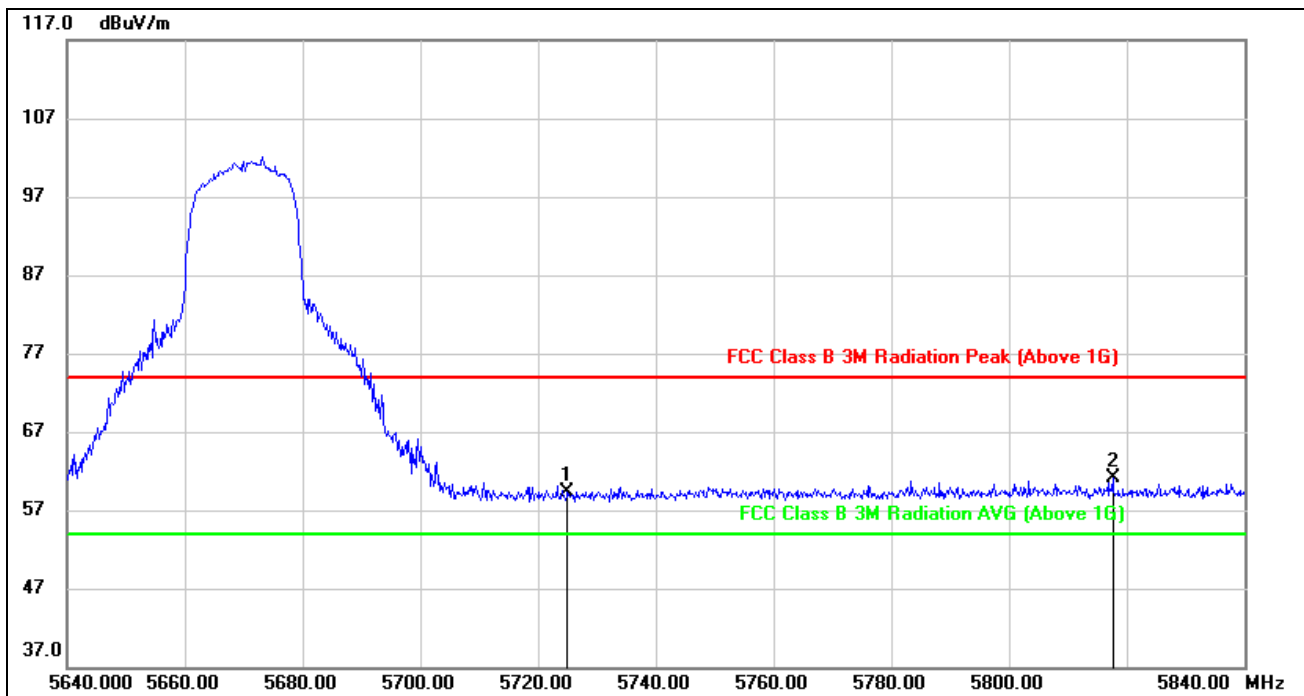


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	17.84	41.39	59.23	68.30	-9.07	peak
2	5725.800	18.67	41.39	60.06	68.30	-8.24	peak

- Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. The chart shows Limits 74dBuV for Peak, 54dBuV for AVG, but Unwanted Emissions that fall Outside of the Restricted Bands is 68.2dBuV for Peak, No limit for AVG. All test results are in compliance with the limits.  
5. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.



### VERTICAL RESULTS



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5725.000	17.79	41.49	59.28	68.30	-9.02	peak
2	5817.600	19.25	41.82	61.07	68.30	-7.23	peak

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. The chart shows Limits 74dBuV for Peak, 54dBuV for AVG, but Unwanted Emissions that fall Outside of the Restricted Bands is 68.2dBuV for Peak, No limit for AVG. All test results are in compliance with the limits.

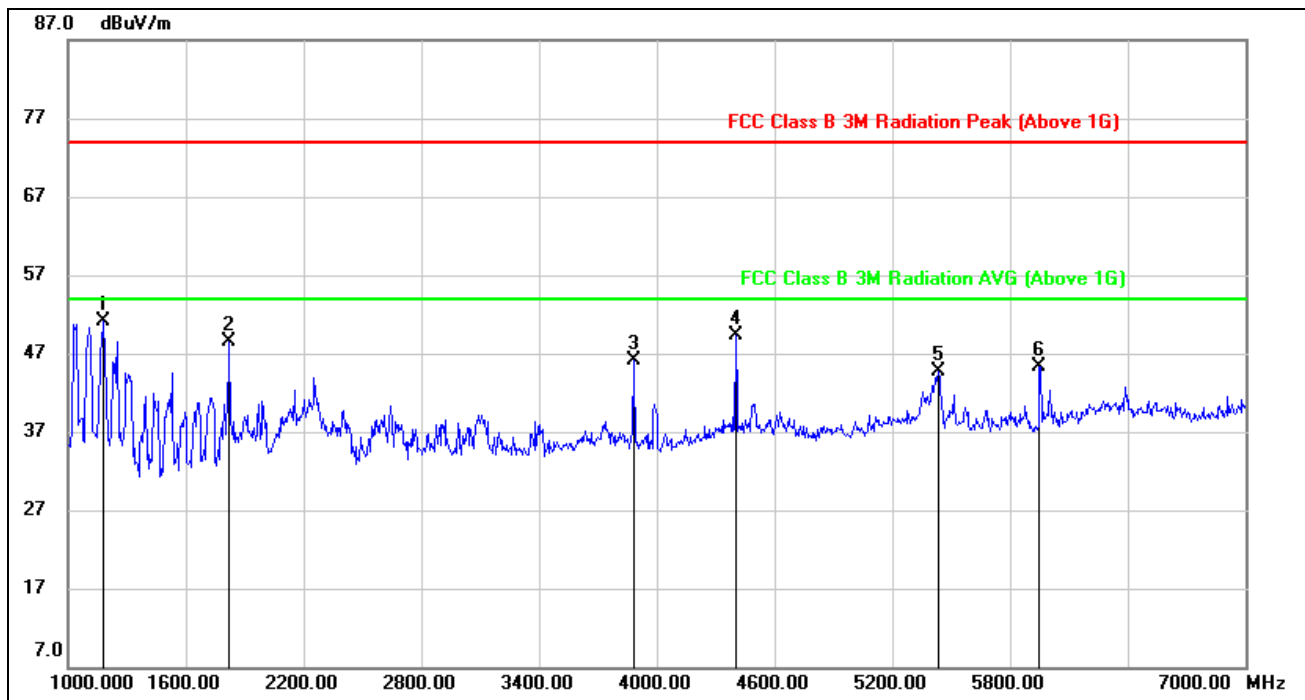
5. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.





## HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL

### HORIZONTAL RESULTS 1-7GHz

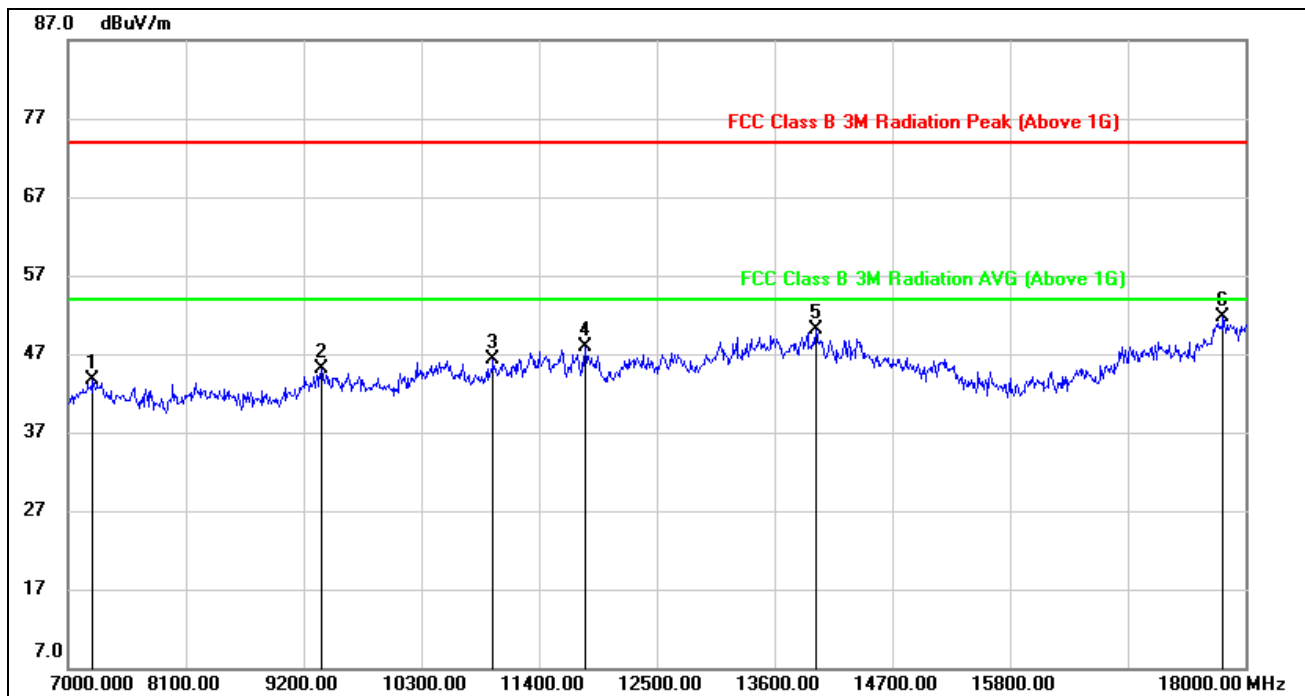


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1180.000	64.61	-13.53	51.08	74.00	-22.92	peak
2	1822.000	60.19	-11.66	48.53	74.00	-25.47	peak
3	3880.000	50.68	-4.65	46.03	74.00	-27.97	peak
4	4402.000	51.98	-2.61	49.37	74.00	-24.63	peak
5	5434.000	44.09	0.56	44.65	74.00	-29.35	peak
6	5950.000	43.71	1.68	45.39	74.00	-28.61	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### HORIZONTAL RESULTS 7-18GHz

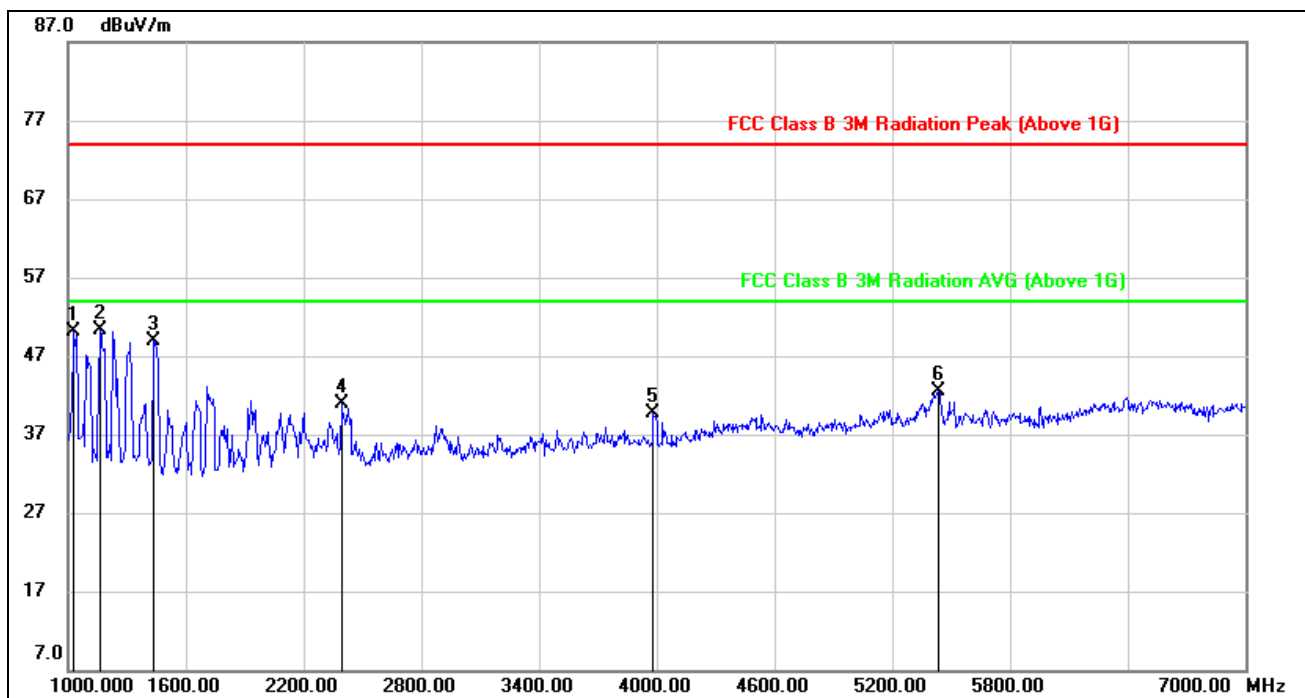


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7231.000	37.34	6.40	43.74	74.00	-30.26	peak
2	9365.000	35.73	9.44	45.17	74.00	-28.83	peak
3	10971.000	33.59	12.64	46.23	74.00	-27.77	peak
4	11829.000	33.97	13.96	47.93	74.00	-26.07	peak
5	13985.000	31.55	18.50	50.05	74.00	-23.95	peak
6	17791.000	27.58	24.12	51.70	74.00	-22.30	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



**VERTICAL RESULTS**  
**1-7GHz**

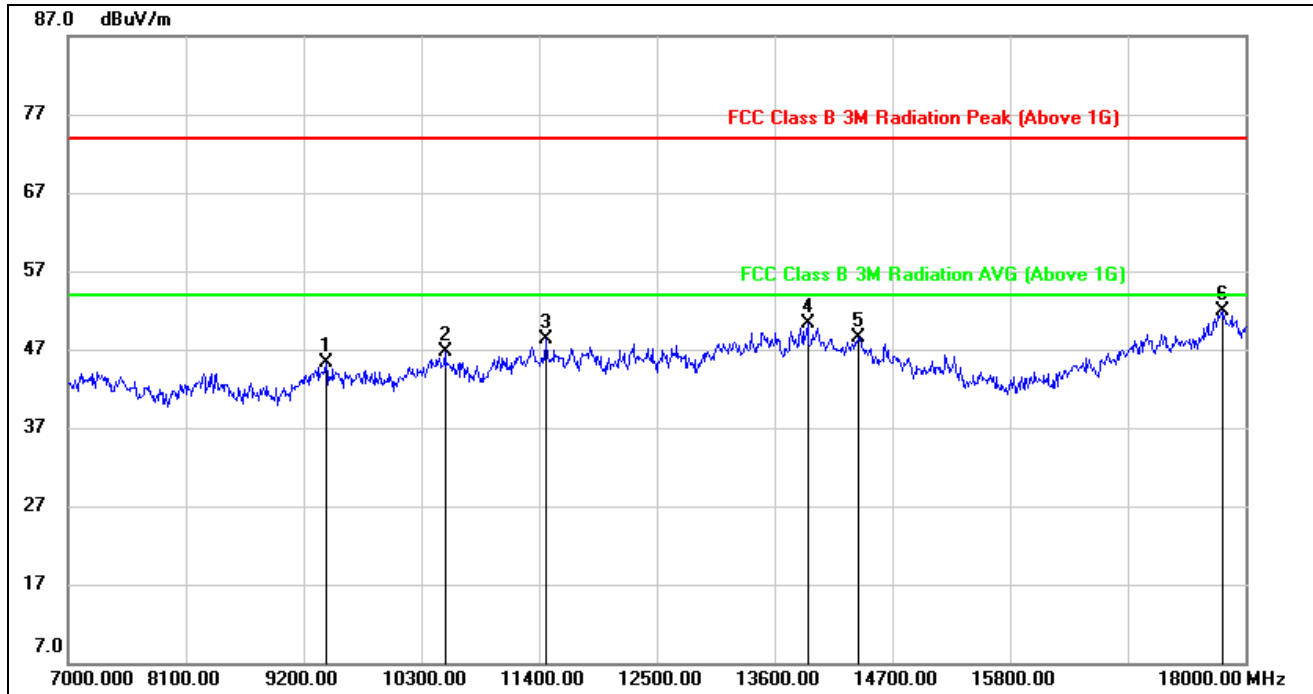


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1030.000	64.40	-14.39	50.01	74.00	-23.99	peak
2	1162.000	64.16	-13.81	50.35	74.00	-23.65	peak
3	1432.000	61.76	-12.79	48.97	74.00	-25.03	peak
4	2392.000	49.70	-8.88	40.82	74.00	-33.18	peak
5	3982.000	44.25	-4.54	39.71	74.00	-34.29	peak
6	5434.000	41.97	0.56	42.53	74.00	-31.47	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### 7-18GHz



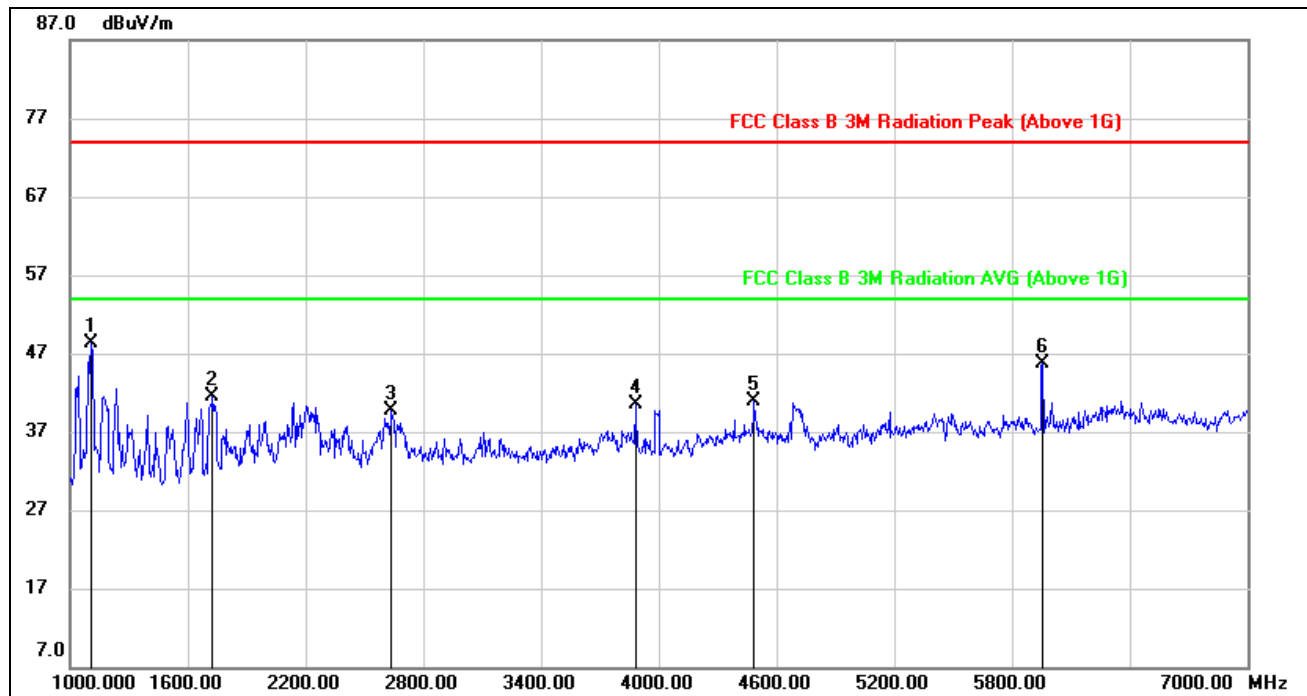
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9409.000	35.80	9.57	45.37	74.00	-28.63	peak
2	10520.000	34.69	11.96	46.65	74.00	-27.35	peak
3	11466.000	34.62	13.59	48.21	74.00	-25.79	peak
4	13908.000	31.52	18.72	50.24	74.00	-23.76	peak
5	14381.000	30.27	18.31	48.58	74.00	-25.42	peak
6	17780.000	27.52	24.38	51.90	74.00	-22.10	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



## HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL

### HORIZONTAL RESULTS 1-7GHz

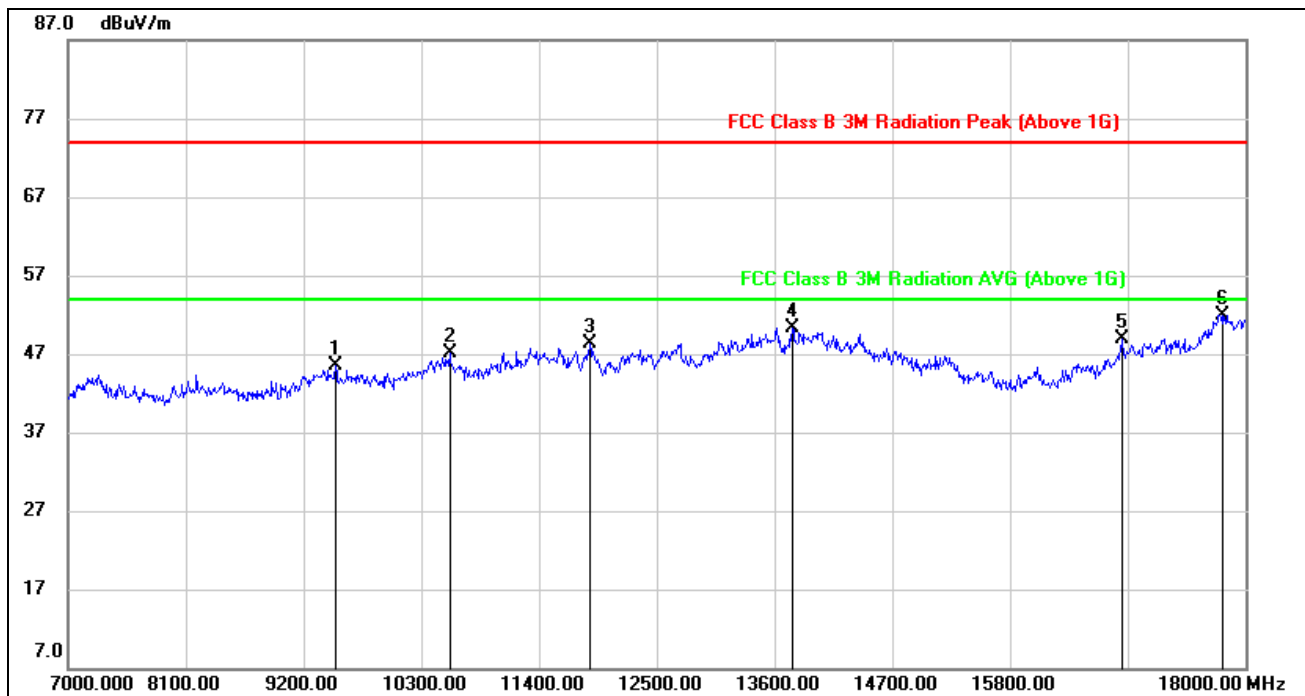


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1108.000	62.14	-13.85	48.29	74.00	-25.71	peak
2	1726.000	53.58	-12.01	41.57	74.00	-32.43	peak
3	2638.000	48.33	-8.65	39.68	74.00	-34.32	peak
4	3880.000	45.09	-4.65	40.44	74.00	-33.56	peak
5	4486.000	43.25	-2.29	40.96	74.00	-33.04	peak
6	5956.000	43.92	1.72	45.64	74.00	-28.36	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### HORIZONTAL RESULTS 7-18GHz

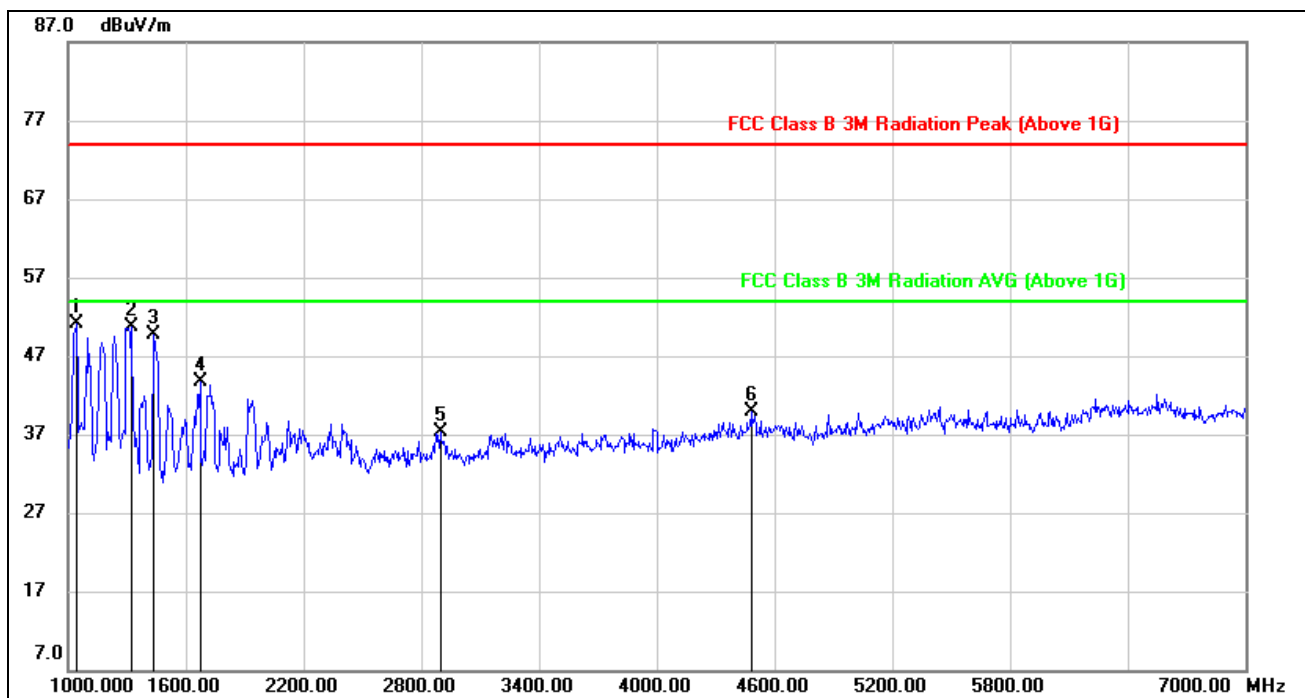


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9497.000	35.82	9.69	45.51	74.00	-28.49	peak
2	10564.000	35.10	11.91	47.01	74.00	-26.99	peak
3	11873.000	33.57	14.69	48.26	74.00	-25.74	peak
4	13765.000	31.71	18.67	50.38	74.00	-23.62	peak
5	16845.000	30.49	18.40	48.89	74.00	-25.11	peak
6	17791.000	27.88	24.12	52.00	74.00	-22.00	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



**VERTICAL RESULTS**  
**1-7GHz**

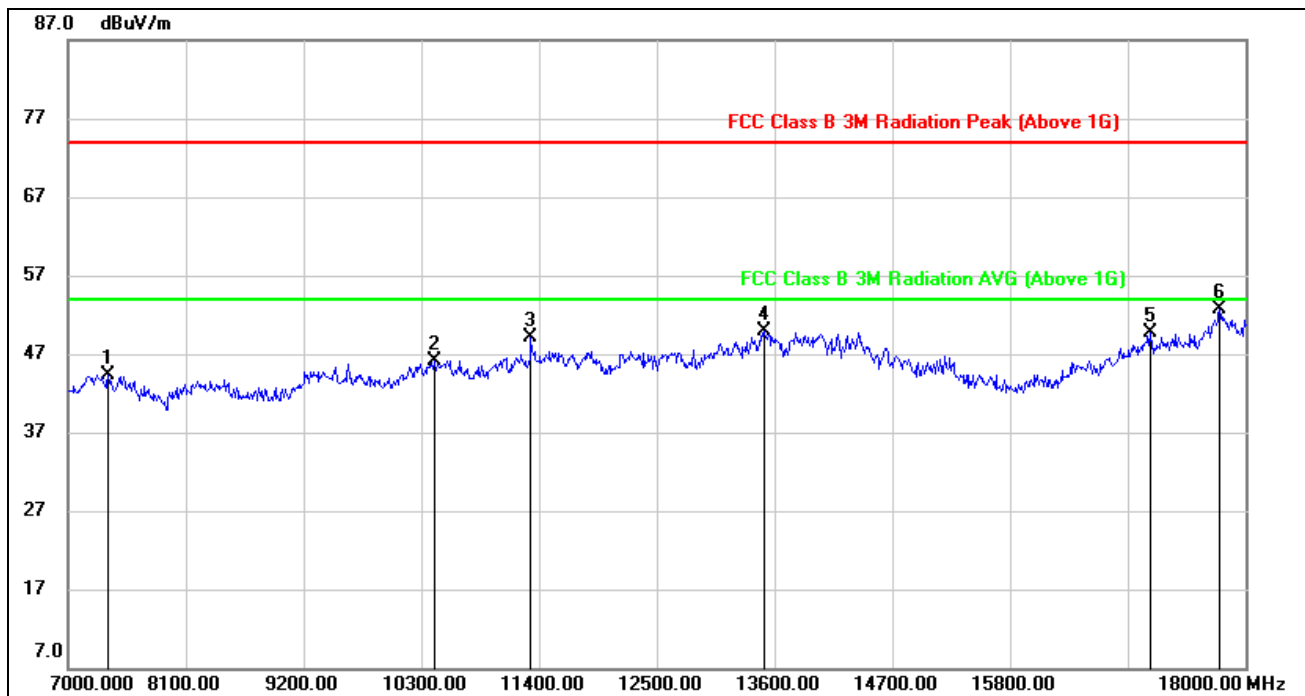


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1042.000	65.49	-14.36	51.13	74.00	-22.87	peak
2	1324.000	63.61	-12.86	50.75	74.00	-23.25	peak
3	1432.000	62.51	-12.79	49.72	74.00	-24.28	peak
4	1672.000	56.05	-12.26	43.79	74.00	-30.21	peak
5	2896.000	44.64	-7.29	37.35	74.00	-36.65	peak
6	4480.000	42.07	-2.21	39.86	74.00	-34.14	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



**VERTICAL RESULTS**  
**7-18GHz**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7374.000	38.54	5.84	44.38	74.00	-29.62	peak
2	10421.000	34.50	11.61	46.11	74.00	-27.89	peak
3	11323.000	35.63	13.43	49.06	74.00	-24.94	peak
4	13501.000	31.30	18.57	49.87	74.00	-24.13	peak
5	17109.000	29.11	20.65	49.76	74.00	-24.24	peak
6	17758.000	28.66	24.08	52.74	74.00	-21.26	peak

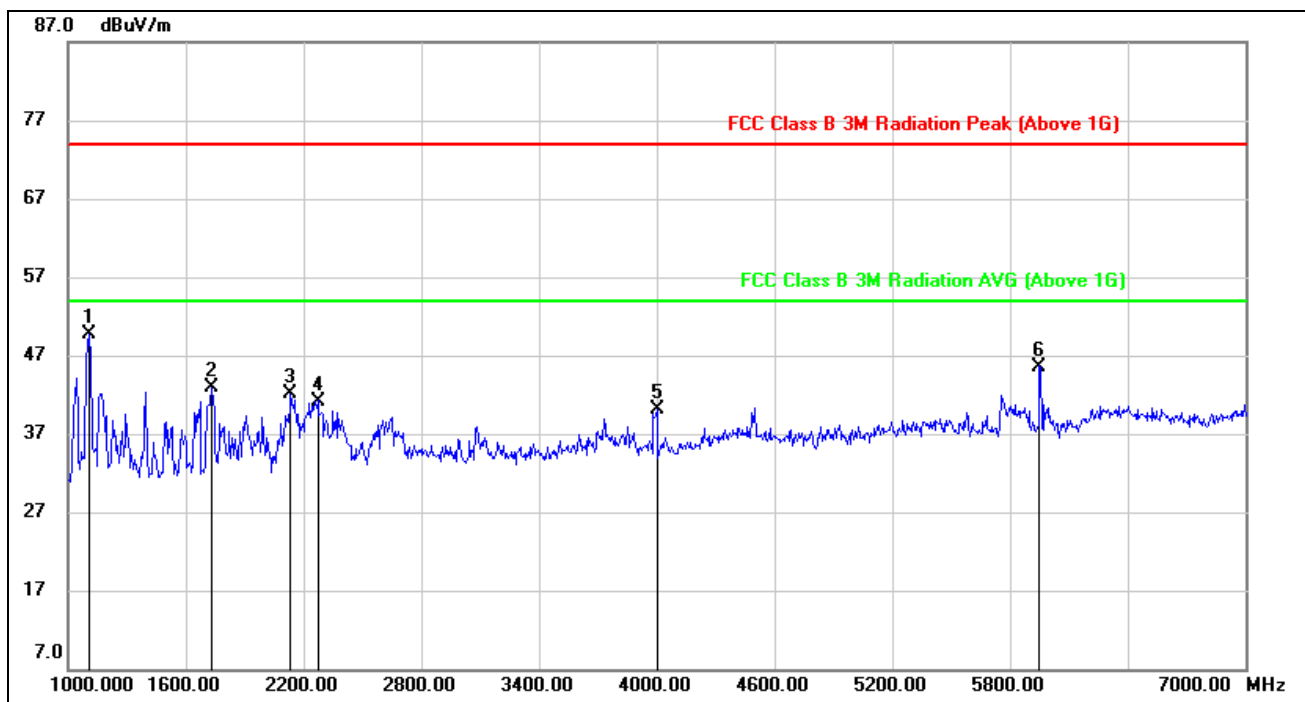
Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.





## HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL

### HORIZONTAL RESULTS 1-7GHz

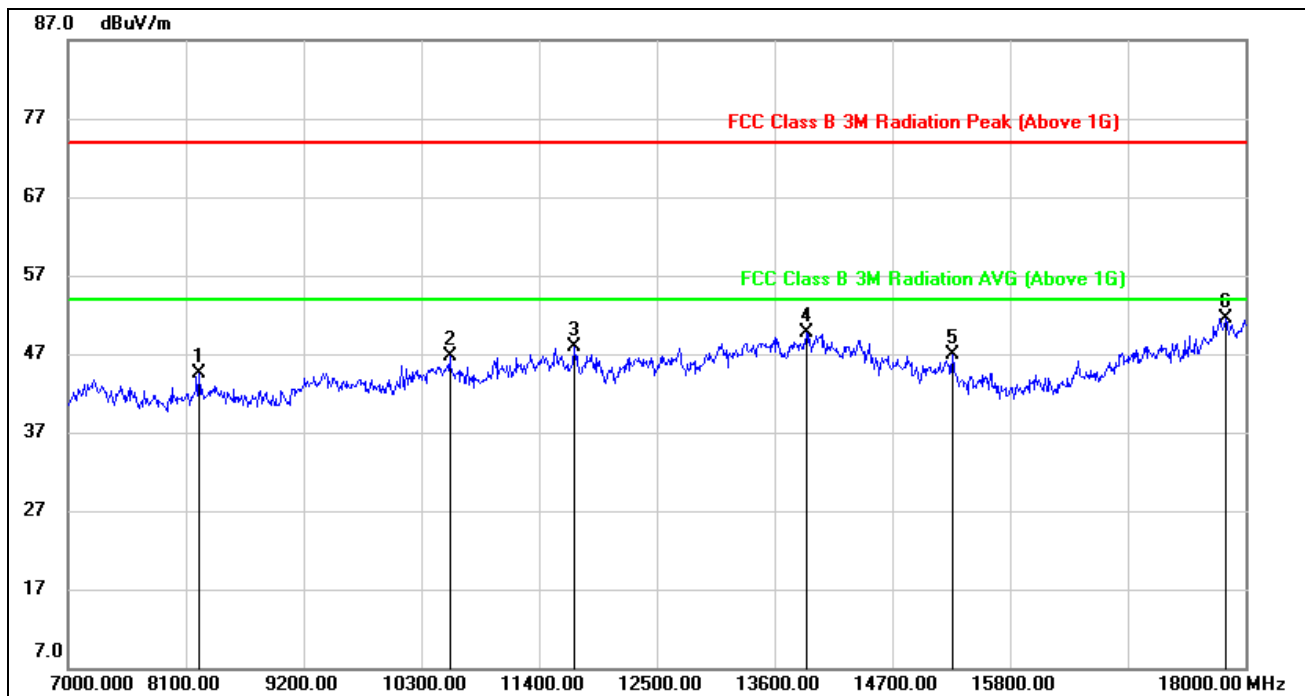


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1108.000	63.62	-13.85	49.77	74.00	-24.23	peak
2	1732.000	54.95	-11.97	42.98	74.00	-31.02	peak
3	2134.000	51.92	-9.76	42.16	74.00	-31.84	peak
4	2272.000	49.56	-8.36	41.20	74.00	-32.80	peak
5	4000.000	44.70	-4.54	40.16	74.00	-33.84	peak
6	5950.000	43.92	1.68	45.60	74.00	-28.40	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### HORIZONTAL RESULTS 7-18GHz

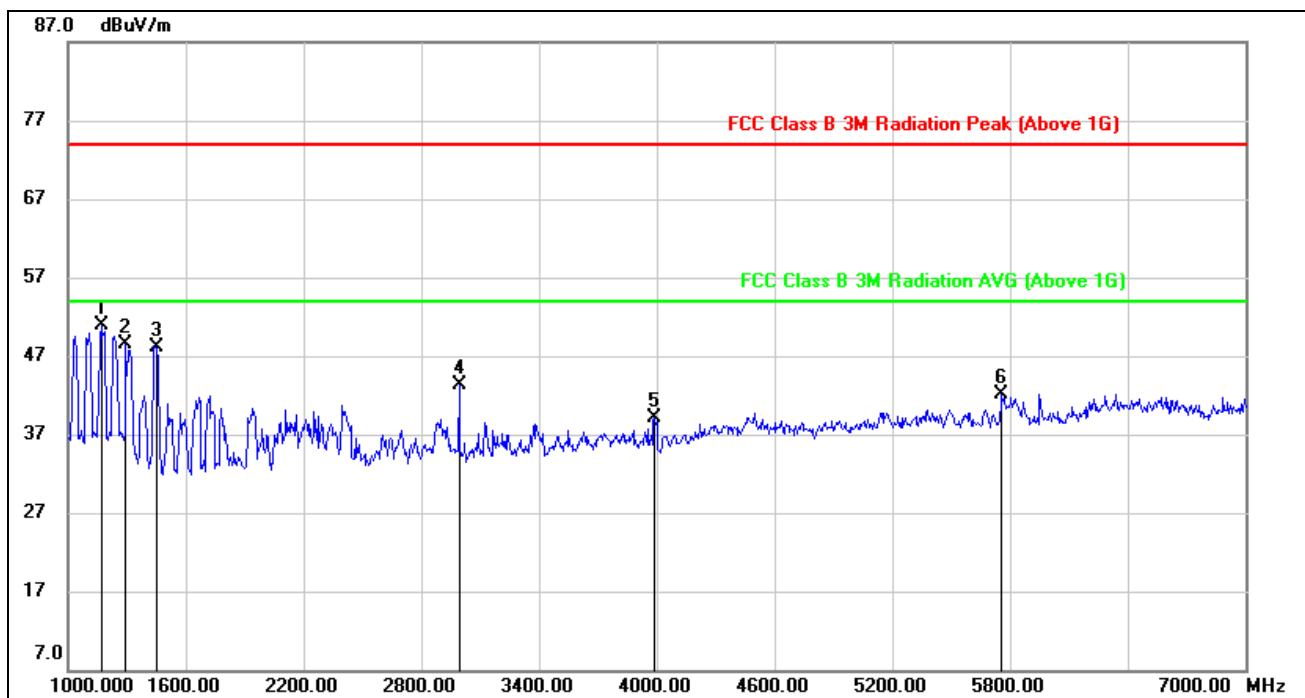


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8221.000	37.40	7.10	44.50	74.00	-29.50	peak
2	10564.000	34.85	11.91	46.76	74.00	-27.24	peak
3	11730.000	33.44	14.40	47.84	74.00	-26.16	peak
4	13897.000	31.08	18.54	49.62	74.00	-24.38	peak
5	15261.000	31.38	15.46	46.84	74.00	-27.16	peak
6	17813.000	27.34	24.25	51.59	74.00	-22.41	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. AVG: VBW=1/Ton where: ton is transmit duration.  
5. For duty cycle, please refer to clause 6.1.  
6. Owing to the highest peak level complies with the lowest limit of unwanted emission out of the restricted bands (Please refer to page 63), so all the test point were deemed to comply with the limits list in the standard.



**VERTICAL RESULTS**  
**1-7GHz**

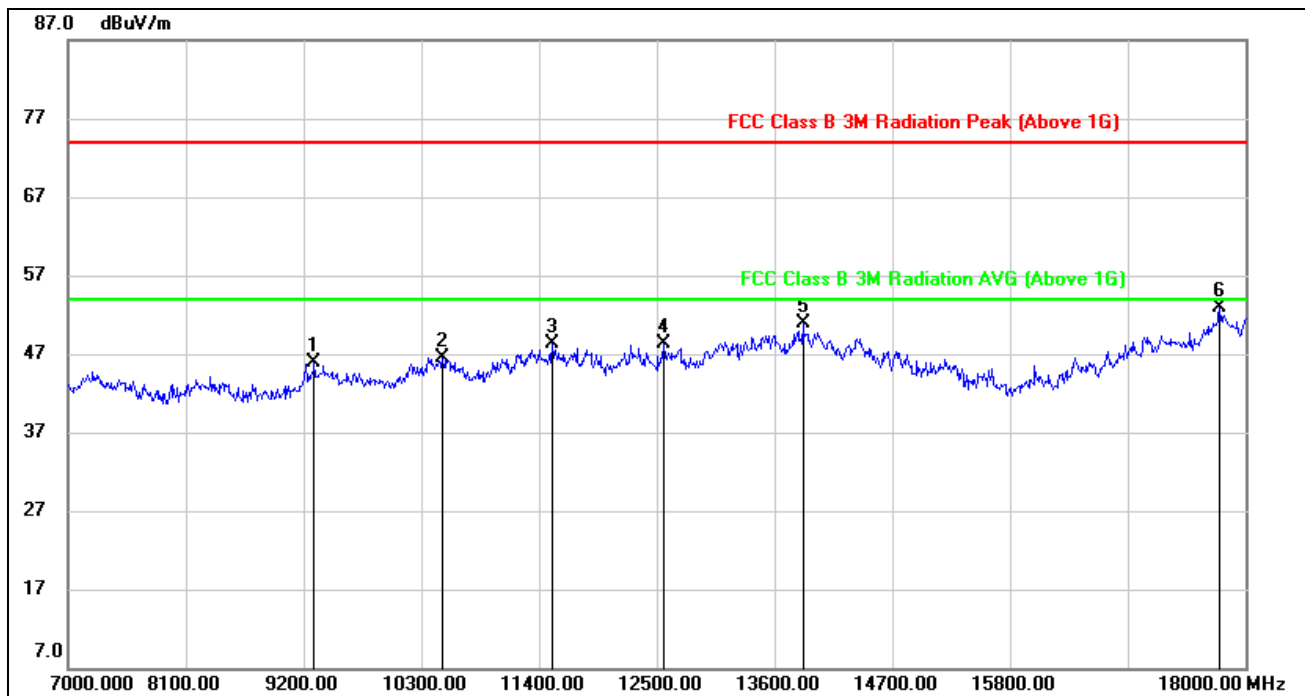


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1168.000	64.73	-13.76	50.97	74.00	-23.03	peak
2	1294.000	61.55	-12.98	48.57	74.00	-25.43	peak
3	1450.000	60.84	-12.71	48.13	74.00	-25.87	peak
4	2992.000	50.53	-7.29	43.24	74.00	-30.76	peak
5	3988.000	43.57	-4.54	39.03	74.00	-34.97	peak
6	5758.000	40.90	1.20	42.10	74.00	-31.90	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



**VERTICAL RESULTS**  
**7-18GHz**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9299.000	36.76	9.23	45.99	74.00	-28.01	peak
2	10498.000	34.49	12.01	46.50	74.00	-27.50	peak
3	11521.000	34.10	14.14	48.24	74.00	-25.76	peak
4	12566.000	33.13	15.18	48.31	74.00	-25.69	peak
5	13864.000	32.08	18.78	50.86	74.00	-23.14	peak
6	17758.000	28.87	24.08	52.95	74.00	-21.05	peak

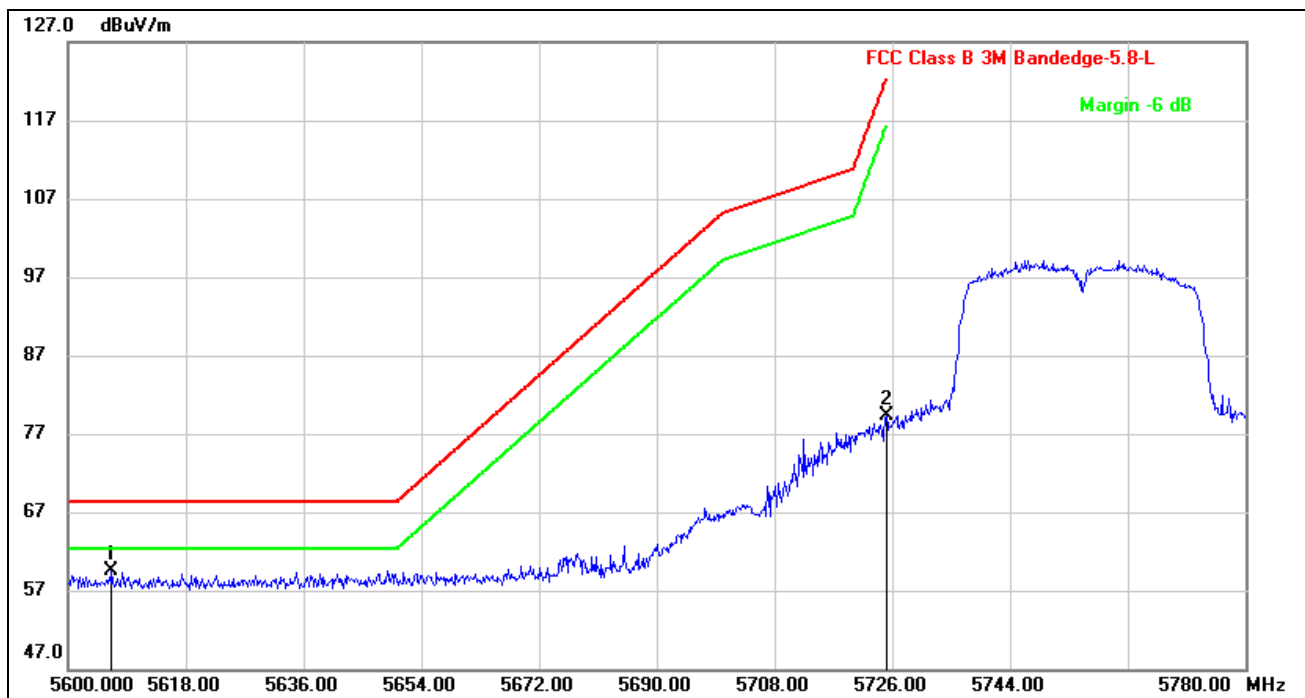
Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. AVG: VBW=1/Ton where: ton is transmit duration.  
5. For duty cycle, please refer to clause 6.1.  
6. Owing to the highest peak level complies with the lowest limit of unwanted emission out of the restricted bands (Please refer to page 63), so all the test point were deemed to comply with the limits list in the standard.



#### 7.3.4. UNII-3 BAND

#### RESTRICTED BANDEDGE LOW CHANNEL

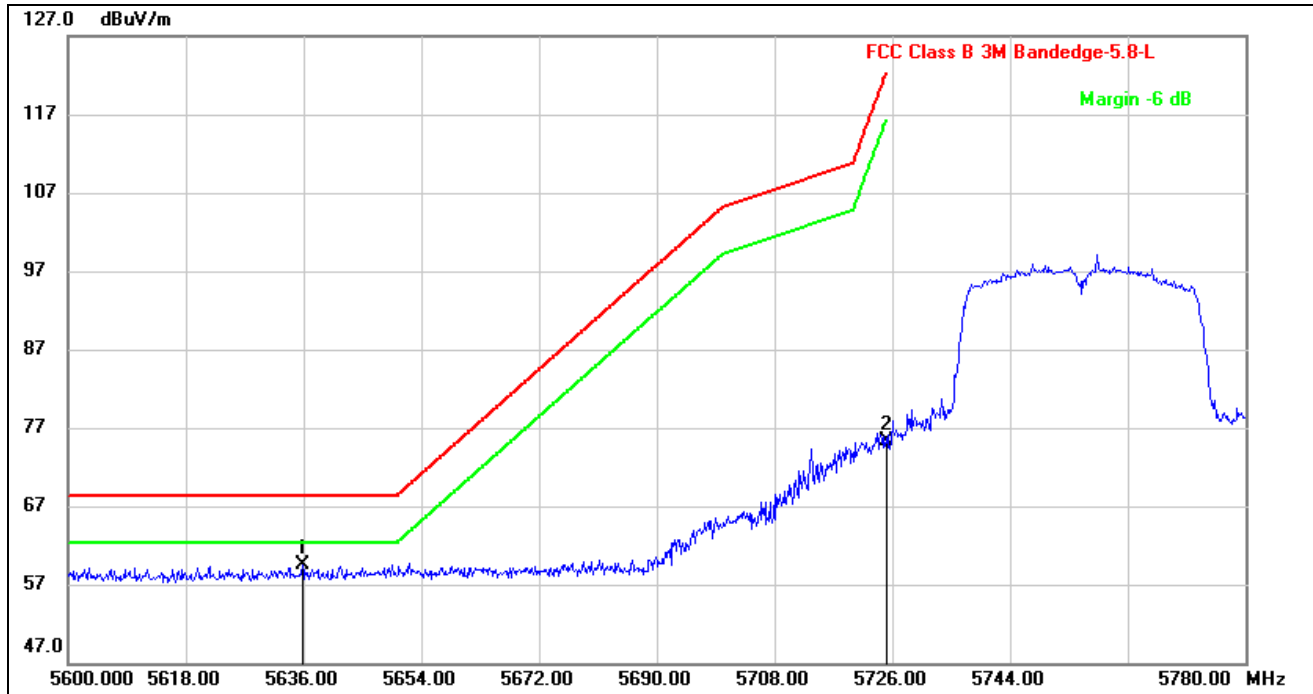
#### HORIZONTAL RESULTS



Note: 1. Measurement = Reading Level + Correct Factor.



### VERTICAL RESULTS



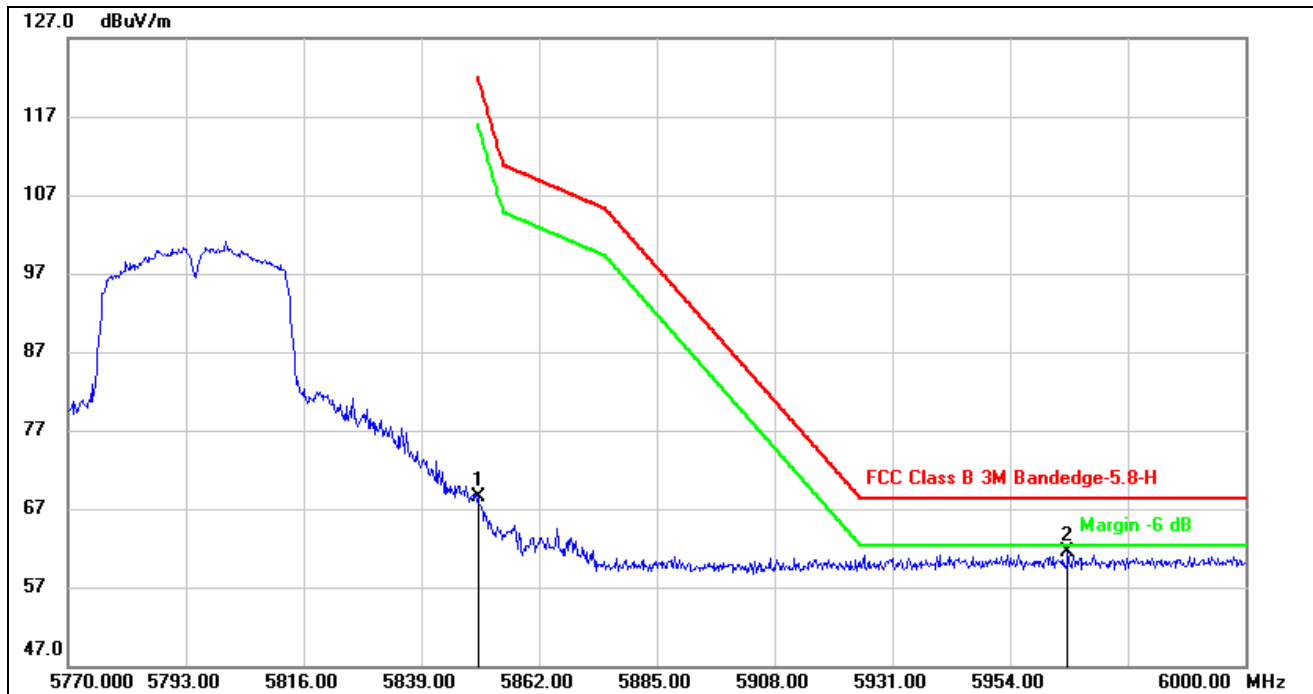
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5635.820	18.22	41.24	59.46	68.20	-8.74	peak
2	5725.000	33.79	41.49	75.28	122.20	-46.92	peak

Note: 1. Measurement = Reading Level + Correct Factor.



## RESTRICTED BANDEDGE HIGH CHANNEL

### HORIZONTAL RESULTS

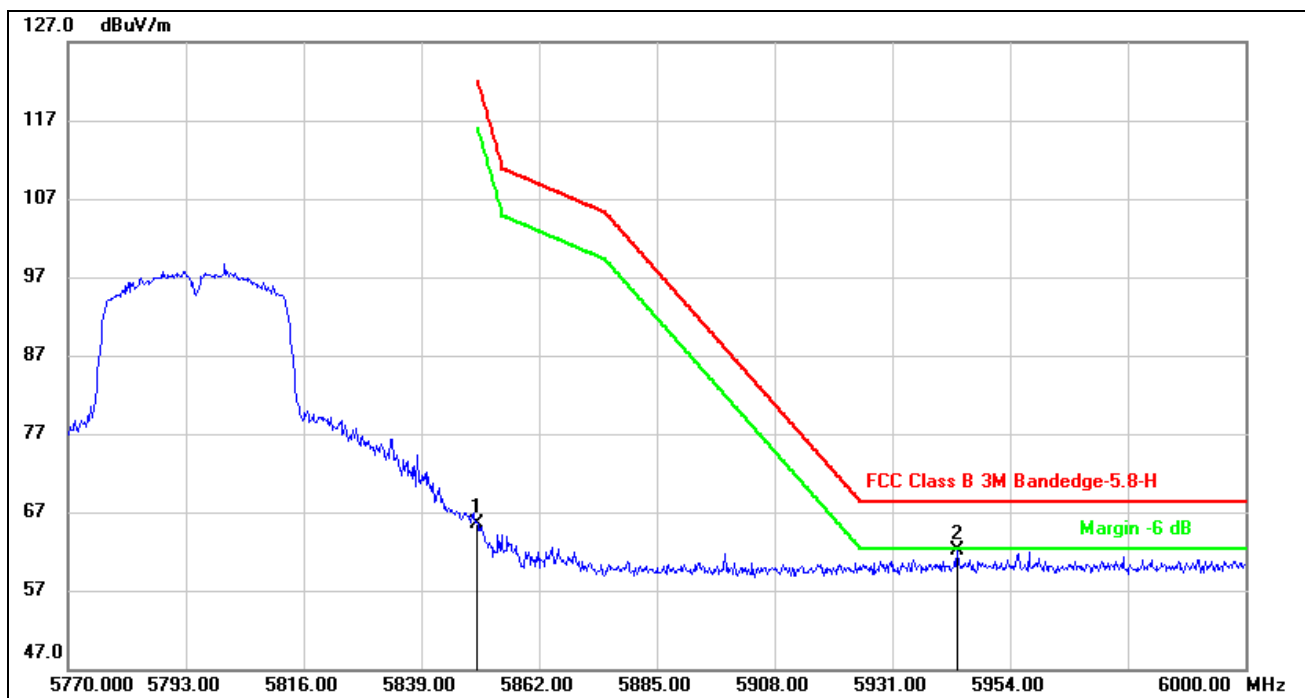


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	26.68	41.77	68.45	122.20	-53.75	peak
2	5965.270	19.50	42.09	61.59	68.20	-6.61	peak

Note: 1. Measurement = Reading Level + Correct Factor.



### VERTICAL RESULTS



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5850.000	23.55	41.87	65.42	122.20	-56.78	peak
2	5943.650	19.95	42.07	62.02	68.20	-6.18	peak

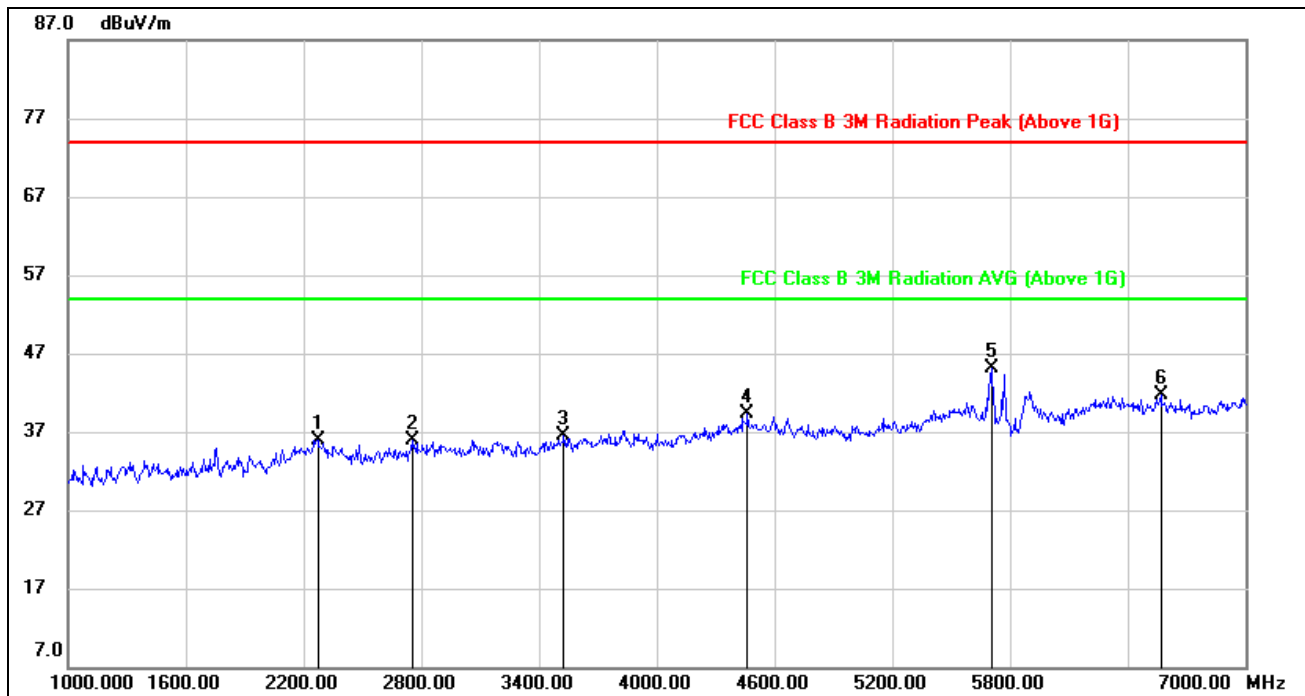
Note: 1. Measurement = Reading Level + Correct Factor.





## HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL

### HORIZONTAL RESULTS 1-7GHz

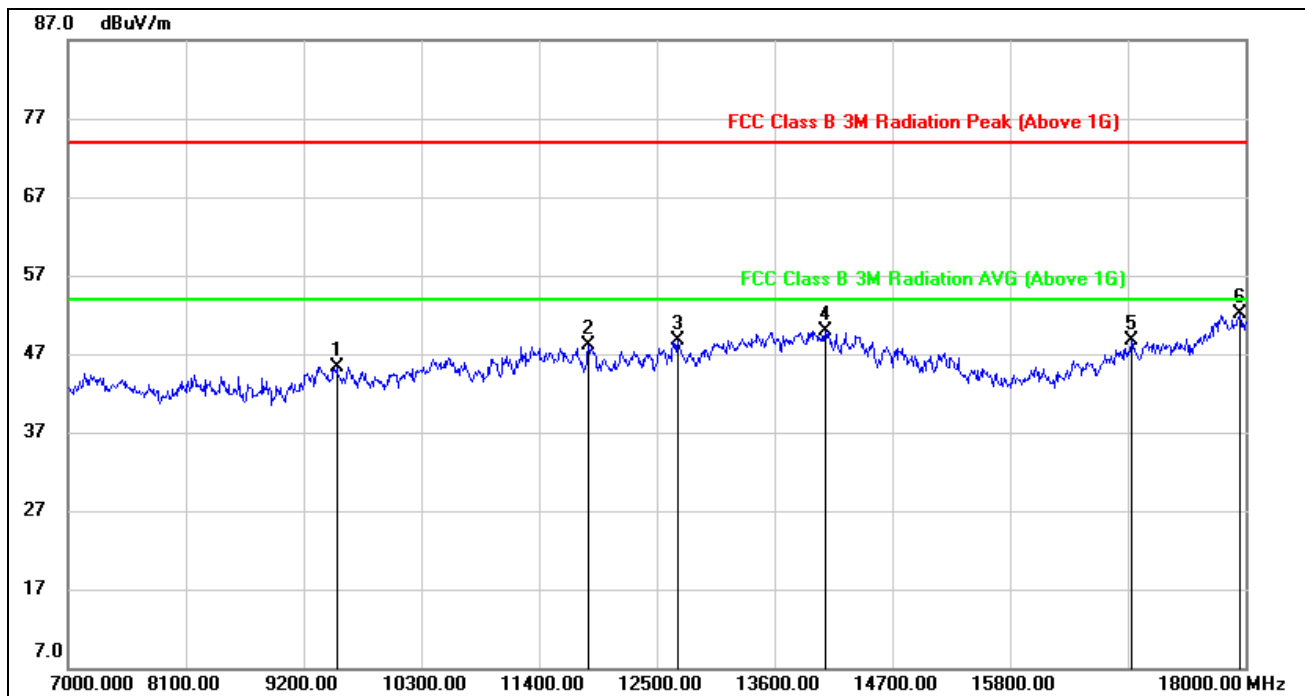


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2272.000	44.25	-8.36	35.89	74.00	-38.11	peak
2	2752.000	43.81	-7.93	35.88	74.00	-38.12	peak
3	3526.000	42.31	-5.90	36.41	74.00	-37.59	peak
4	4462.000	41.58	-2.36	39.22	74.00	-34.78	peak
5	5704.000	44.12	0.91	45.03	74.00	-28.97	peak
6	6568.000	37.75	4.01	41.76	74.00	-32.24	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### HORIZONTAL RESULTS 7-18GHz

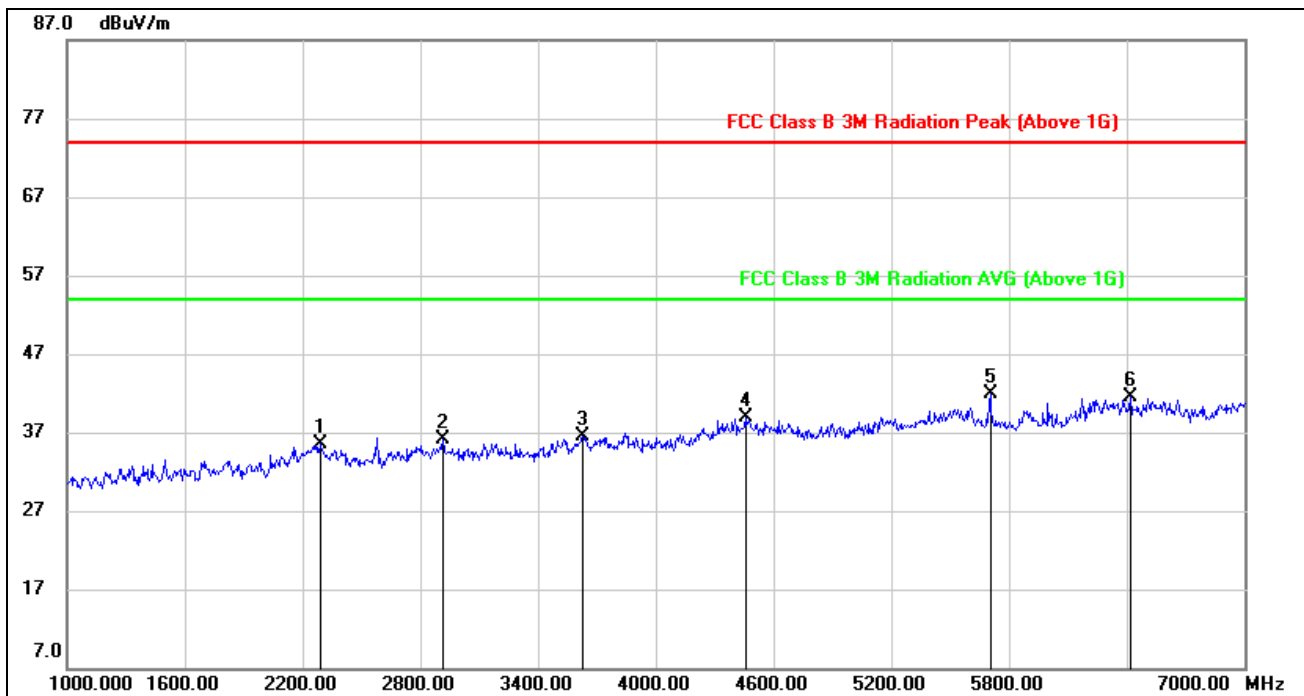


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9508.000	35.63	9.68	45.31	74.00	-28.69	peak
2	11862.000	33.66	14.47	48.13	74.00	-25.87	peak
3	12698.000	33.31	15.48	48.79	74.00	-25.21	peak
4	14073.000	31.52	18.47	49.99	74.00	-24.01	peak
5	16933.000	29.57	19.11	48.68	74.00	-25.32	peak
6	17945.000	27.44	24.71	52.15	74.00	-21.85	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



**VERTICAL RESULTS**  
**1-7GHz**

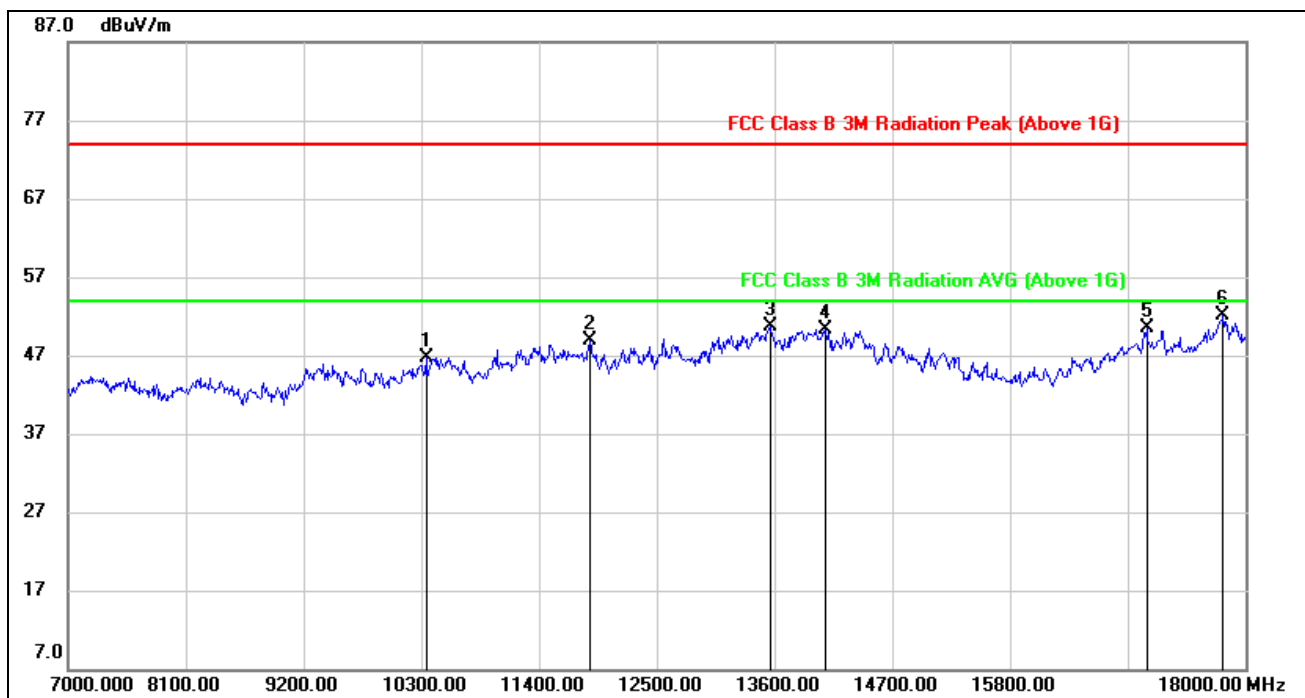


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2290.000	43.62	-8.20	35.42	74.00	-38.58	peak
2	2914.000	43.31	-7.28	36.03	74.00	-37.97	peak
3	3628.000	41.98	-5.40	36.58	74.00	-37.42	peak
4	4456.000	41.16	-2.27	38.89	74.00	-35.11	peak
5	5704.000	40.88	1.01	41.89	74.00	-32.11	peak
6	6418.000	38.13	3.36	41.49	74.00	-32.51	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### 7-18GHz



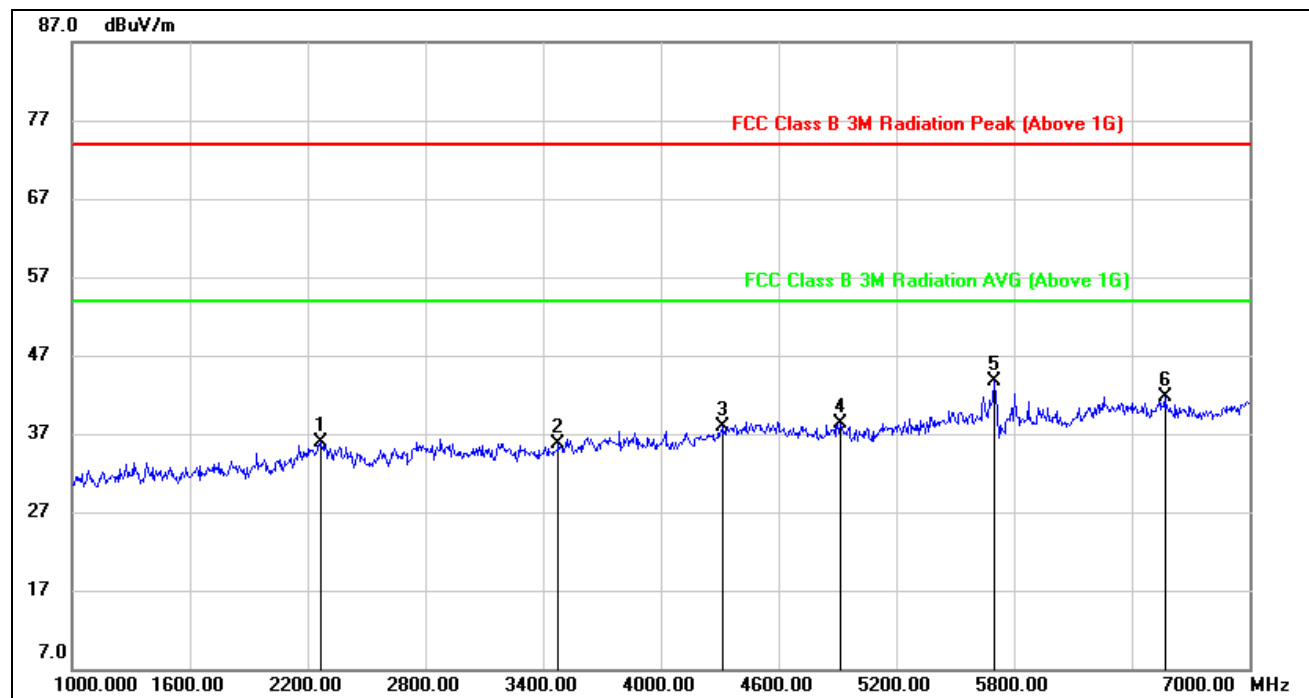
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10344.000	35.67	11.13	46.80	74.00	-27.20	peak
2	11873.000	34.11	14.73	48.84	74.00	-25.16	peak
3	13556.000	31.83	18.84	50.67	74.00	-23.33	peak
4	14073.000	31.83	18.41	50.24	74.00	-23.76	peak
5	17076.000	29.90	20.56	50.46	74.00	-23.54	peak
6	17791.000	27.65	24.52	52.17	74.00	-21.83	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



## HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL

### HORIZONTAL RESULTS 1-7GHz

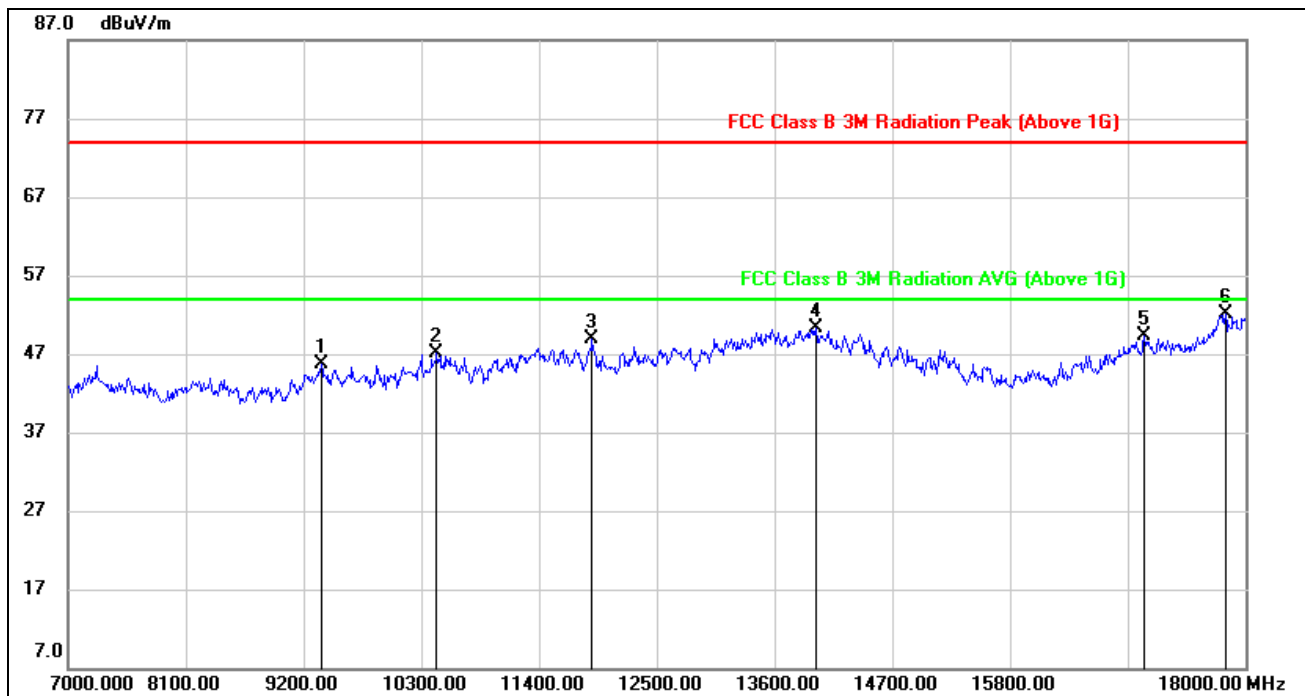


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2266.000	44.31	-8.37	35.94	74.00	-38.06	peak
2	3478.000	41.97	-6.17	35.80	74.00	-38.20	peak
3	4318.000	40.95	-3.02	37.93	74.00	-36.07	peak
4	4912.000	38.93	-0.70	38.23	74.00	-35.77	peak
5	5698.000	42.83	0.89	43.72	74.00	-30.28	peak
6	6568.000	37.76	4.01	41.77	74.00	-32.23	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### HORIZONTAL RESULTS 7-18GHz

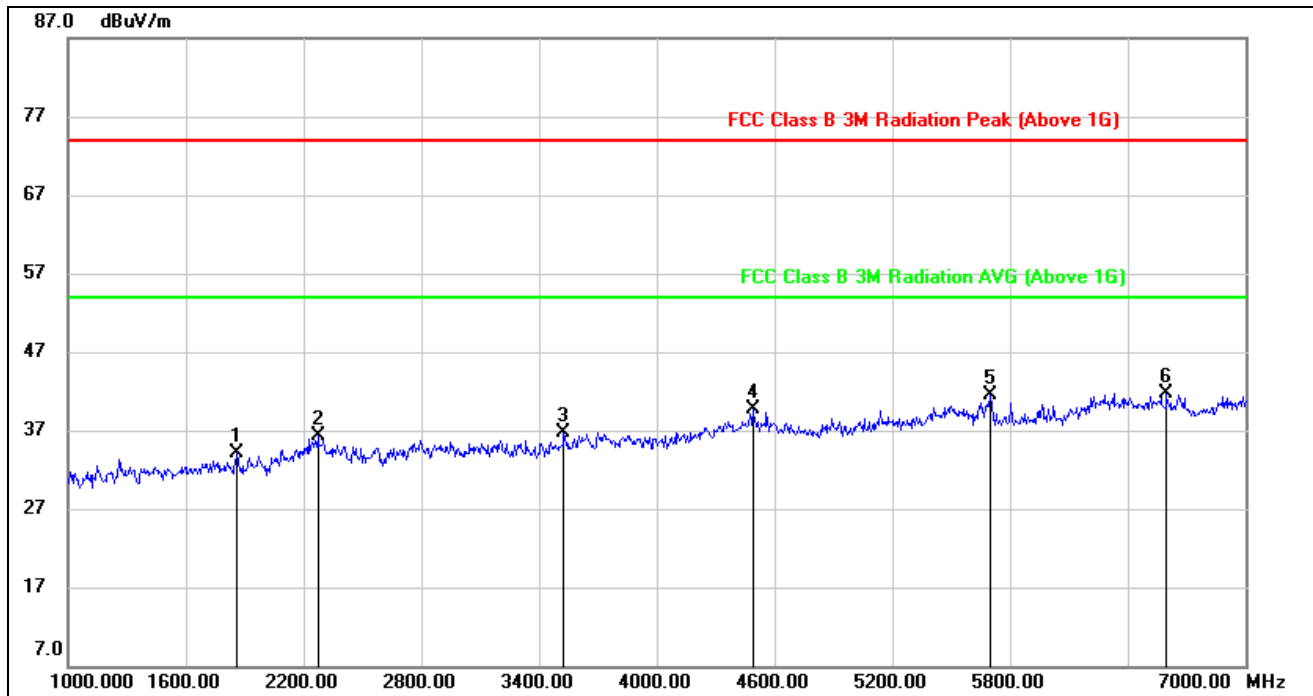


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	9365.000	36.23	9.44	45.67	74.00	-28.33	peak
2	10443.000	35.40	11.63	47.03	74.00	-26.97	peak
3	11895.000	33.80	15.15	48.95	74.00	-25.05	peak
4	13985.000	31.90	18.50	50.40	74.00	-23.60	peak
5	17054.000	29.42	19.97	49.39	74.00	-24.61	peak
6	17813.000	27.77	24.25	52.02	74.00	-21.98	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



**VERTICAL RESULTS**  
**1-7GHz**

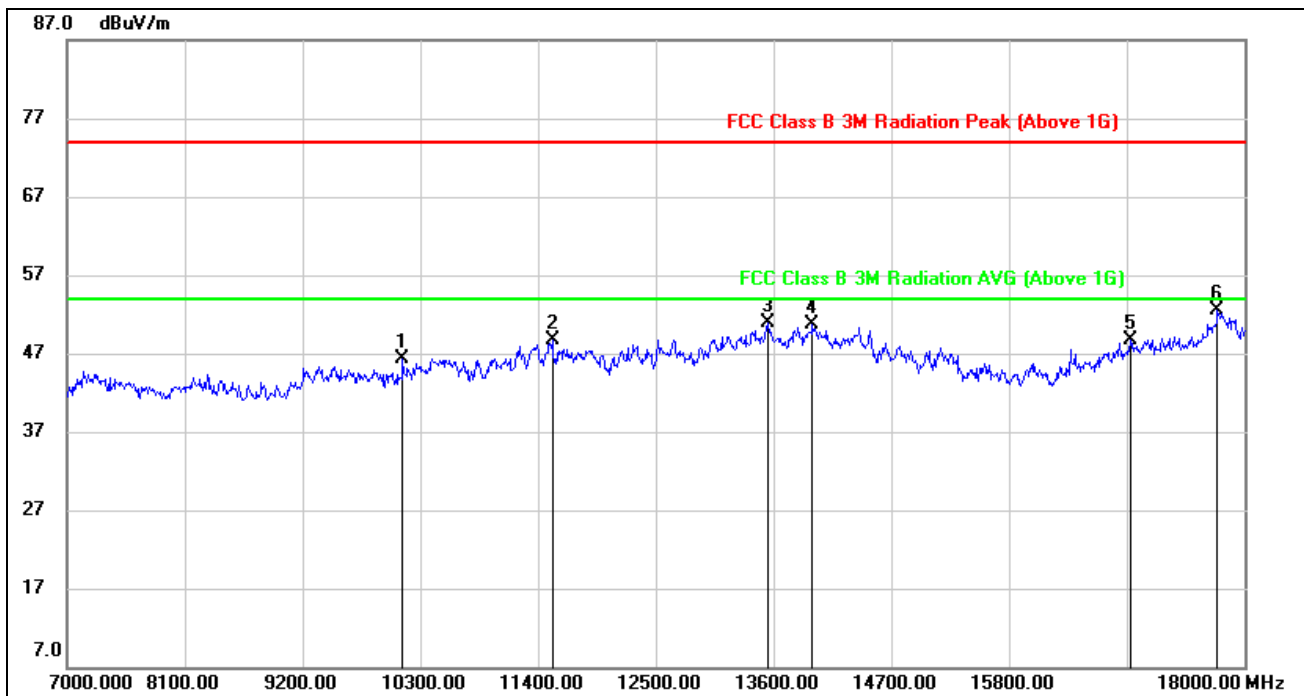


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1858.000	45.61	-11.55	34.06	74.00	-39.94	peak
2	2272.000	44.50	-8.28	36.22	74.00	-37.78	peak
3	3526.000	42.56	-5.86	36.70	74.00	-37.30	peak
4	4492.000	41.85	-2.18	39.67	74.00	-34.33	peak
5	5698.000	40.56	0.99	41.55	74.00	-32.45	peak
6	6598.000	37.36	4.32	41.68	74.00	-32.32	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### 7-18GHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10135.000	35.82	10.55	46.37	74.00	-27.63	peak
2	11532.000	34.50	14.17	48.67	74.00	-25.33	peak
3	13545.000	31.95	18.86	50.81	74.00	-23.19	peak
4	13963.000	32.06	18.63	50.69	74.00	-23.31	peak
5	16933.000	29.45	19.24	48.69	74.00	-25.31	peak
6	17747.000	28.50	23.94	52.44	74.00	-21.56	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



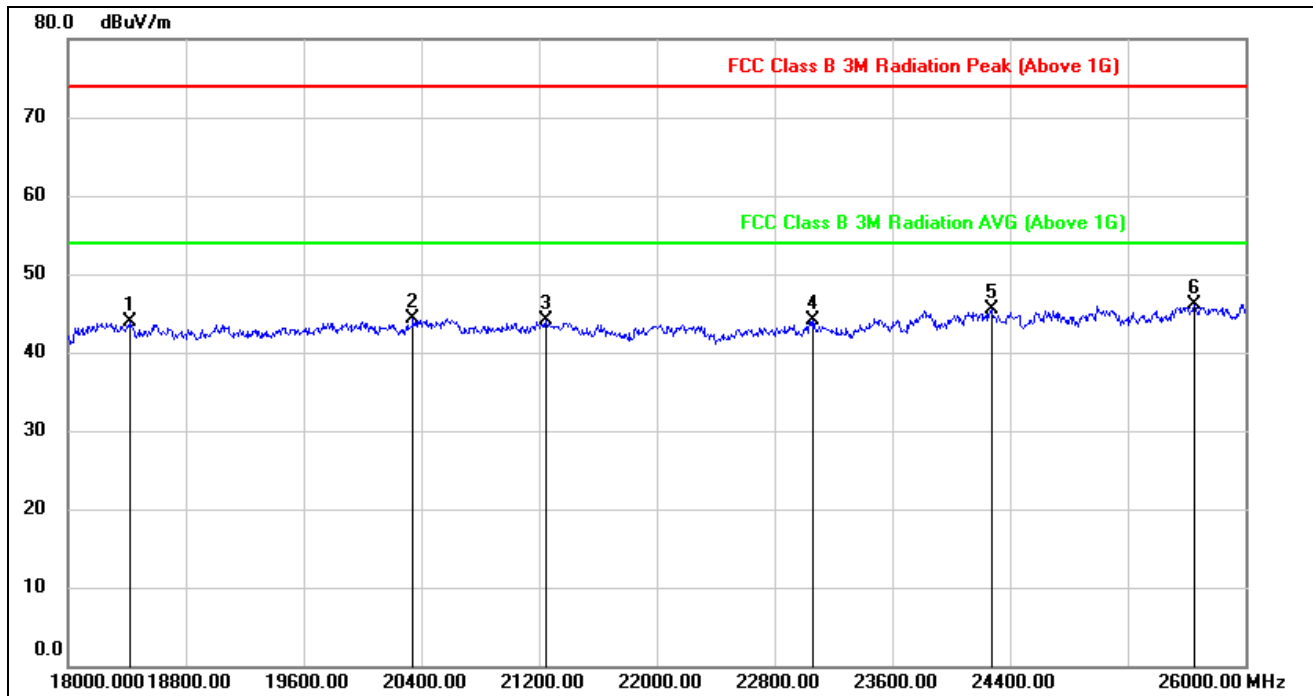


## 7.4. SPURIOUS EMISSIONS 18~26GHz

### 7.4.1. 802.11HT20 MIDDLE MODE

#### (WORST-CASE CONFIGURATION)

#### SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

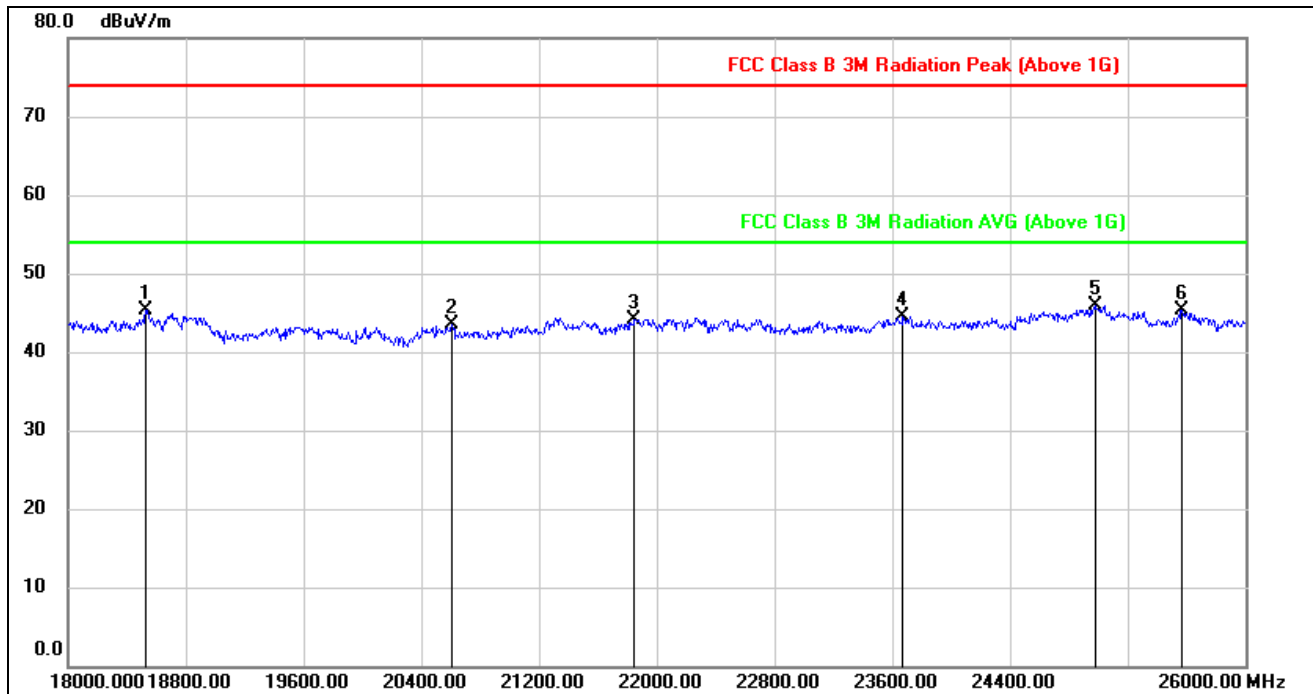


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18416.000	49.23	-5.35	43.88	74.00	-30.12	peak
2	20344.000	49.91	-5.52	44.39	74.00	-29.61	peak
3	21248.000	48.79	-4.77	44.02	74.00	-29.98	peak
4	23064.000	47.49	-3.42	44.07	74.00	-29.93	peak
5	24272.000	48.25	-2.79	45.46	74.00	-28.54	peak
6	25648.000	47.23	-1.09	46.14	74.00	-27.86	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18528.000	50.61	-5.26	45.35	74.00	-28.65	peak
2	20608.000	48.80	-5.25	43.55	74.00	-30.45	peak
3	21848.000	48.58	-4.39	44.19	74.00	-29.81	peak
4	23672.000	47.67	-3.18	44.49	74.00	-29.51	peak
5	24976.000	47.96	-2.11	45.85	74.00	-28.15	peak
6	25568.000	46.67	-1.46	45.21	74.00	-28.79	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.

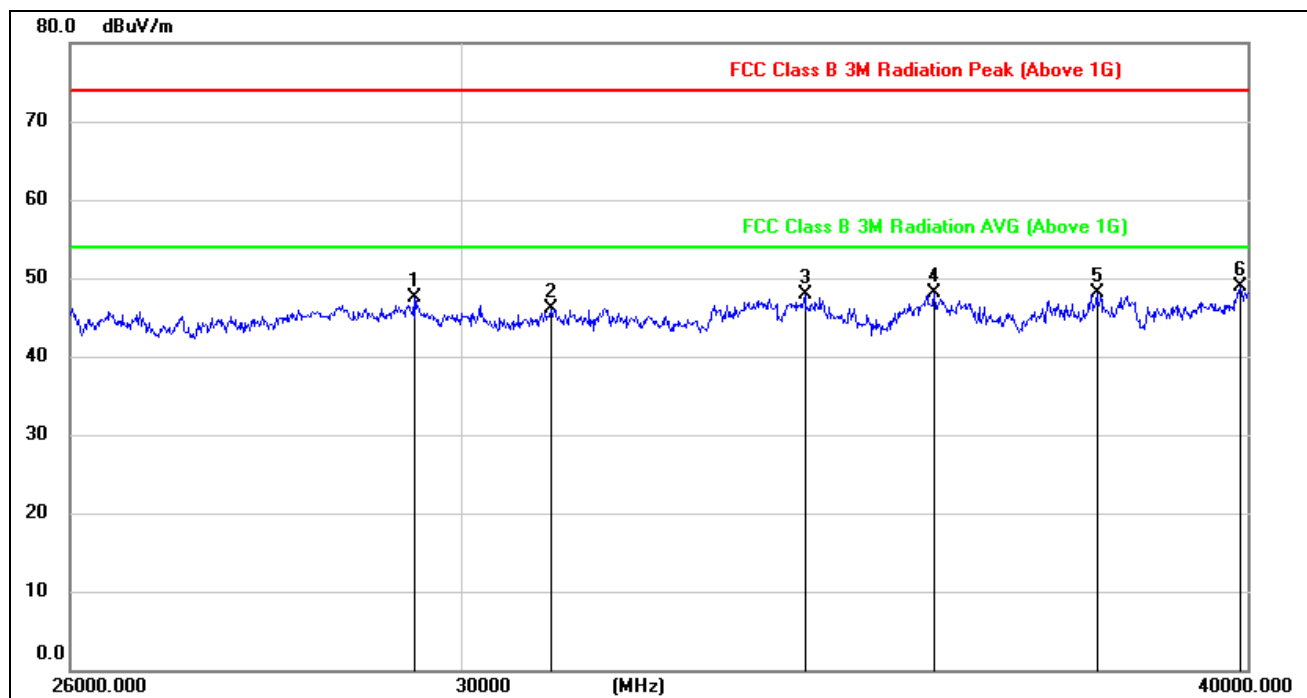


## 7.5. SPURIOUS EMISSIONS 26~40GHz

### 7.5.1. 802.11HT20 MIDDLE MODE

#### (WORST-CASE CONFIGURATION)

#### SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

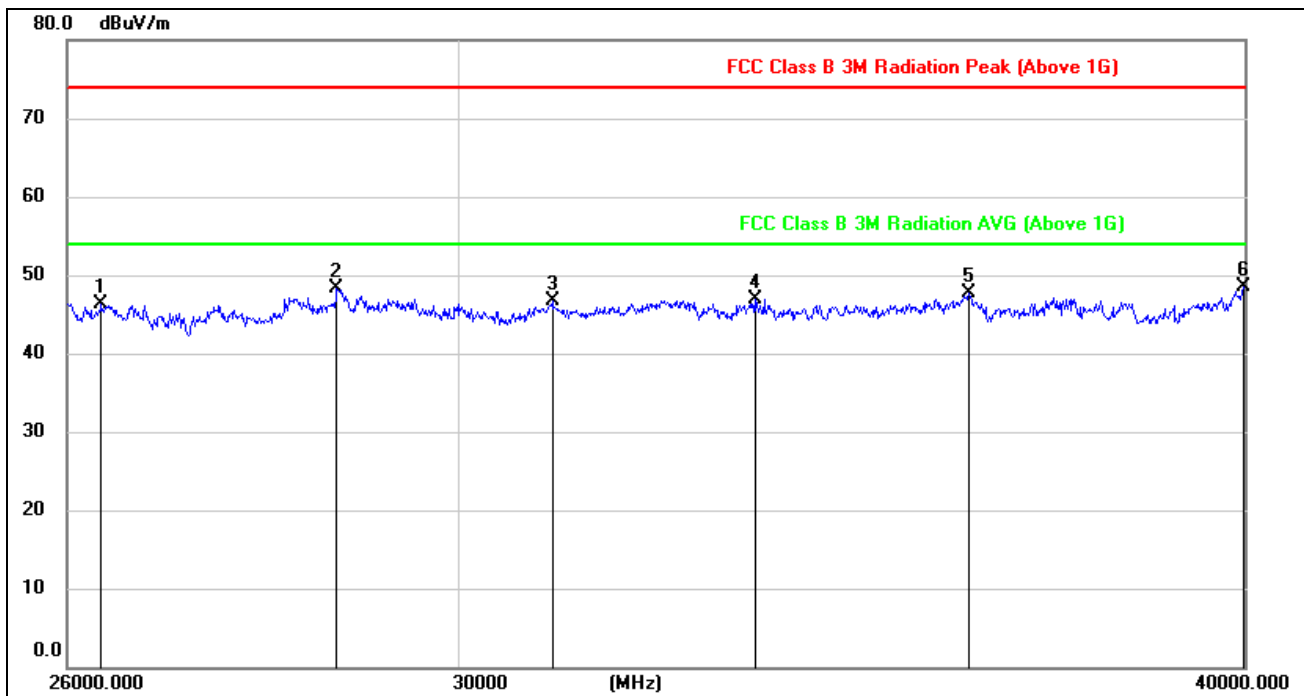


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	29485.103	46.69	0.73	47.42	74.00	-26.58	peak
2	30995.932	47.32	-1.15	46.17	74.00	-27.83	peak
3	34018.520	46.11	1.84	47.95	74.00	-26.05	peak
4	35669.329	44.98	3.03	48.01	74.00	-25.99	peak
5	37854.098	43.27	4.78	48.05	74.00	-25.95	peak
6	39896.746	41.99	6.89	48.88	74.00	-25.12	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.



### SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	26326.848	51.46	-5.06	46.40	74.00	-27.60	peak
2	28695.658	47.19	1.18	48.37	74.00	-25.63	peak
3	31049.388	47.96	-1.19	46.77	74.00	-27.23	peak
4	33437.357	44.50	2.39	46.89	74.00	-27.11	peak
5	36164.438	44.62	3.12	47.74	74.00	-26.26	peak
6	39982.772	41.36	7.09	48.45	74.00	-25.55	peak

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.

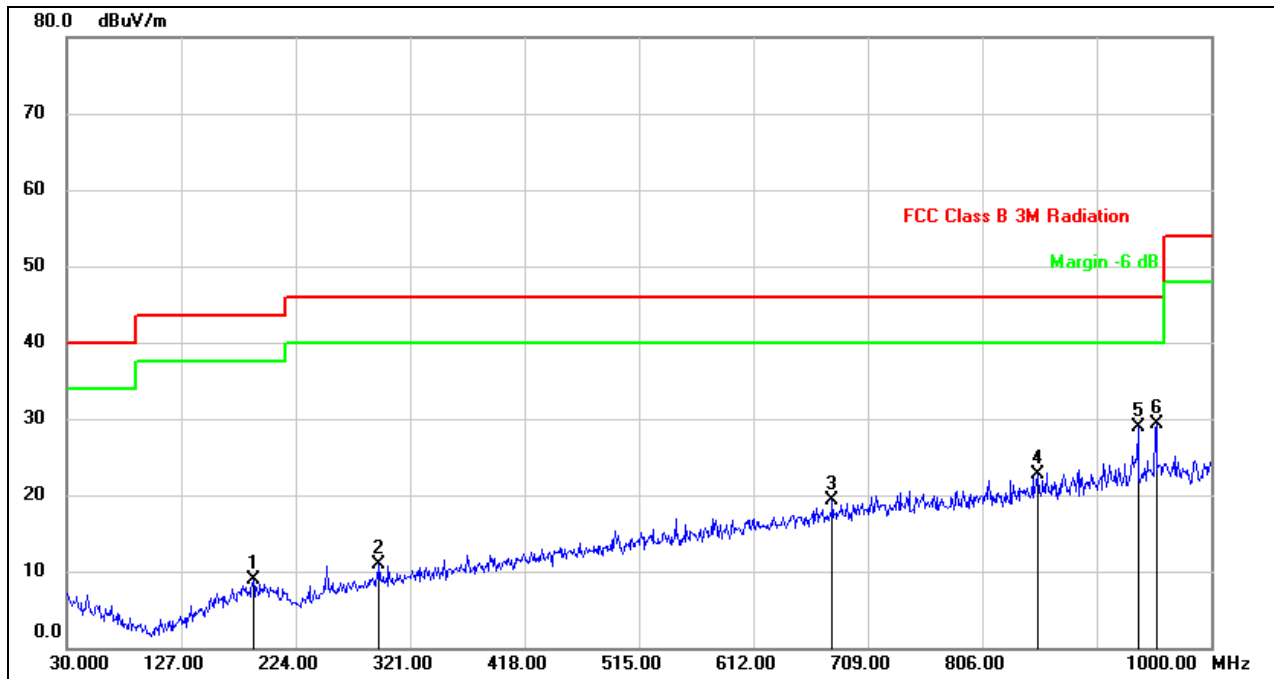


## 7.6. SPURIOUS EMISSIONS 30M ~ 1 GHz

### 7.6.1. 802.11HT20 MIDDLE MODE

#### (WORST-CASE CONFIGURATION)

#### SPURIOUS EMISSIONS (LOW CHANNEL HORIZONTAL)

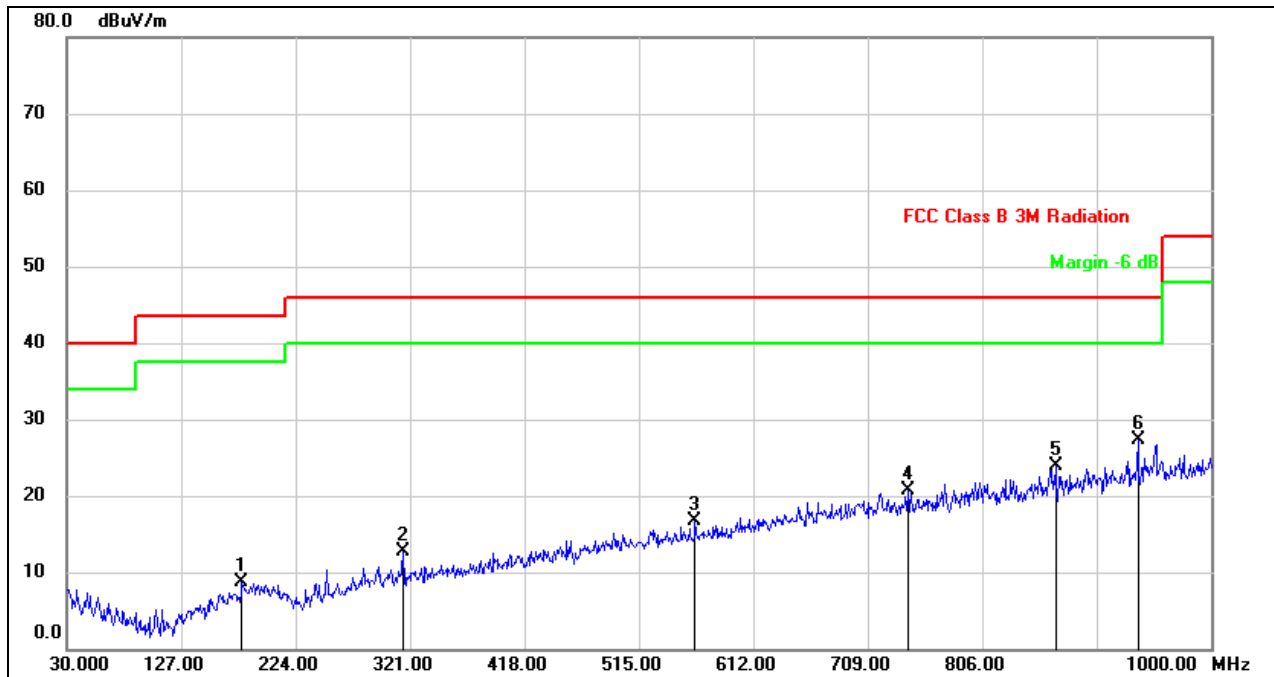


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	188.1100	25.09	-16.16	8.93	43.50	-34.57	PEAK
2	294.8100	25.30	-14.41	10.89	46.00	-35.11	PEAK
3	678.9300	26.63	-7.33	19.30	46.00	-26.70	PEAK
4	852.5600	27.49	-4.74	22.75	46.00	-23.25	PEAK
5	937.9200	32.67	-3.73	28.94	46.00	-17.06	PEAK
6	953.4400	32.75	-3.41	29.34	46.00	-16.66	PEAK

Note: 1. Result Level = Read Level + Correct Factor.  
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.  
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.



### SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	178.4100	25.26	-16.61	8.65	43.50	-34.85	PEAK
2	315.1800	26.73	-14.04	12.69	46.00	-33.31	PEAK
3	562.5300	26.28	-9.63	16.65	46.00	-29.35	PEAK
4	742.9500	27.05	-6.38	20.67	46.00	-25.33	PEAK
5	868.0800	28.57	-4.64	23.93	46.00	-22.07	PEAK
6	937.9200	30.94	-3.73	27.21	46.00	-18.79	PEAK

- Note: 1. Result Level = Read Level + Correct Factor.  
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.  
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto

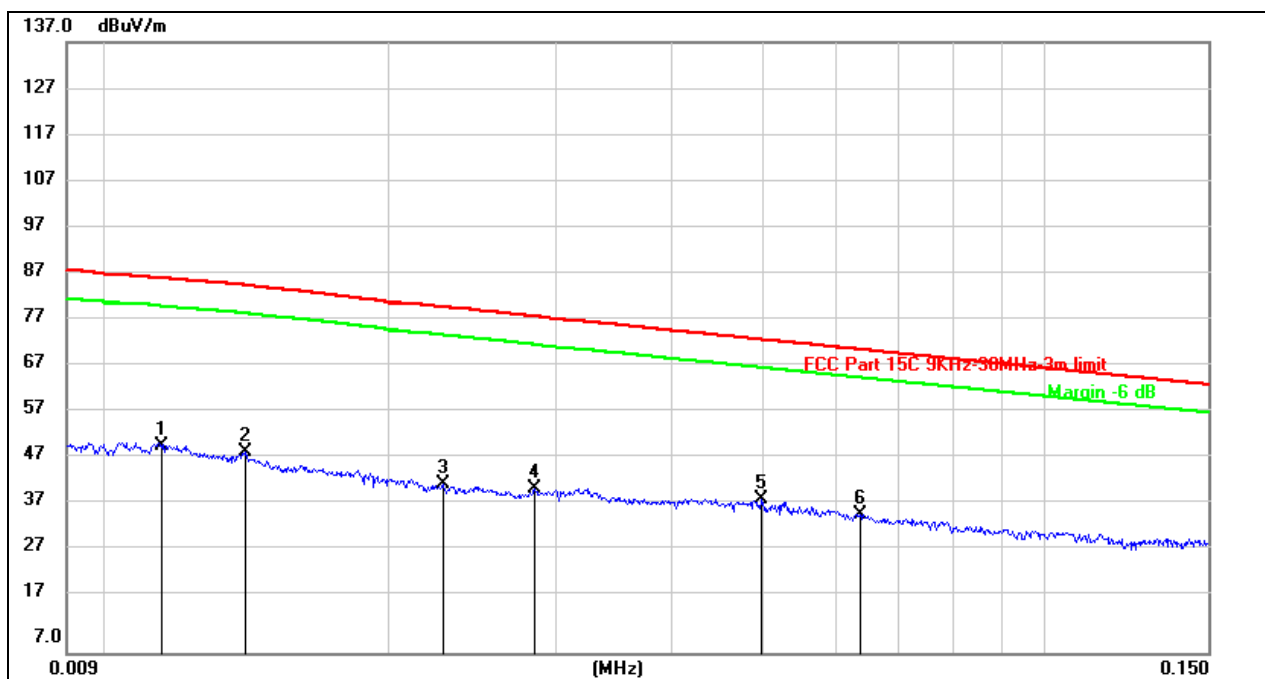
## 7.7. SPURIOUS EMISSIONS BELOW 30M

### 7.7.1. 802.11a MODE

#### (WORST-CASE CONFIGURATION)

#### SPURIOUS EMISSIONS (HIGH CHANNEL HORIZONTAL)

9kHz~ 150kHz



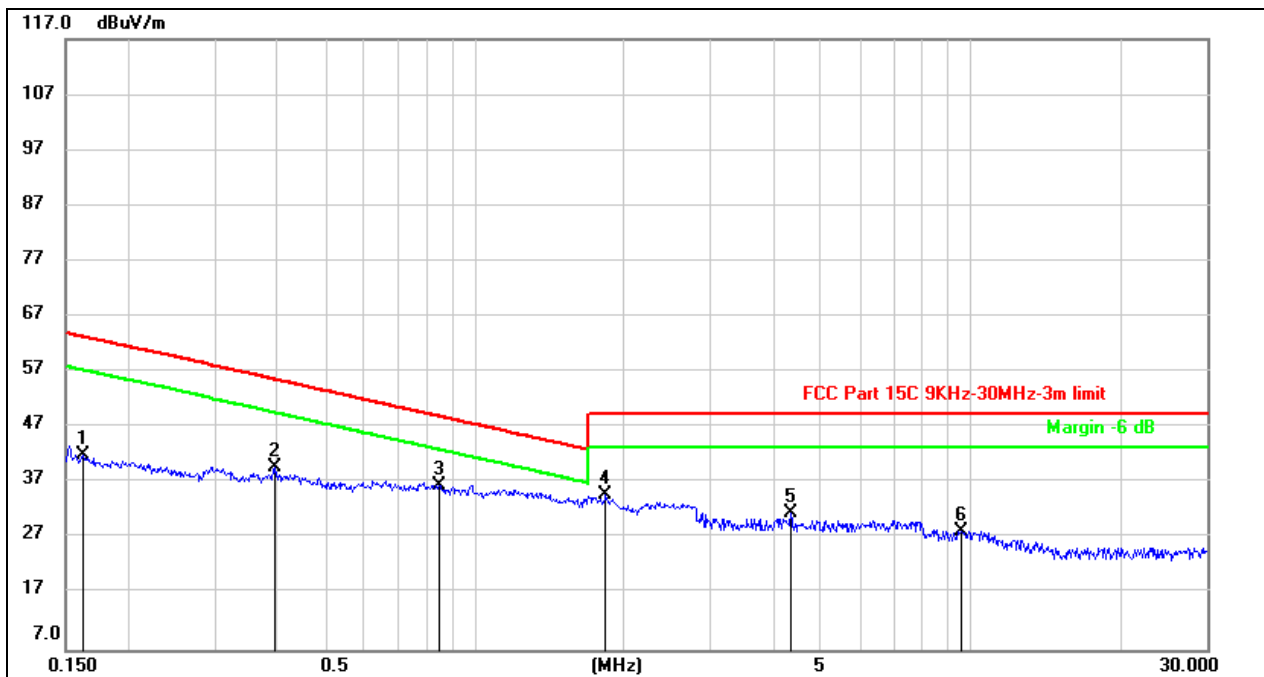
No.	Frequency (KHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0114	30.93	20.22	51.15	86.76	-35.61	peak
2	0.0140	29.47	20.25	49.72	85.19	-35.47	peak
3	0.0228	22.47	20.31	42.78	80.59	-37.81	peak
4	0.0285	21.56	20.31	41.87	78.59	-36.72	peak
5	0.0497	19.51	20.31	39.82	73.68	-33.86	peak
6	0.0636	16.14	20.31	36.45	71.56	-35.11	peak

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.



**150kHz ~ 30MHz**



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1621	21.56	20.41	41.97	63.41	-21.44	peak
2	0.3955	19.49	20.27	39.76	55.67	-15.91	peak
3	0.8483	16.30	20.36	36.66	49.05	-12.39	peak
4	1.8386	14.16	20.67	34.83	49.54	-14.71	peak
5	4.3376	10.61	20.98	31.59	49.54	-17.95	peak
6	9.5518	7.31	21.04	28.35	49.54	-21.19	peak

Note: 1. Measurement = Reading Level + Correct Factor.

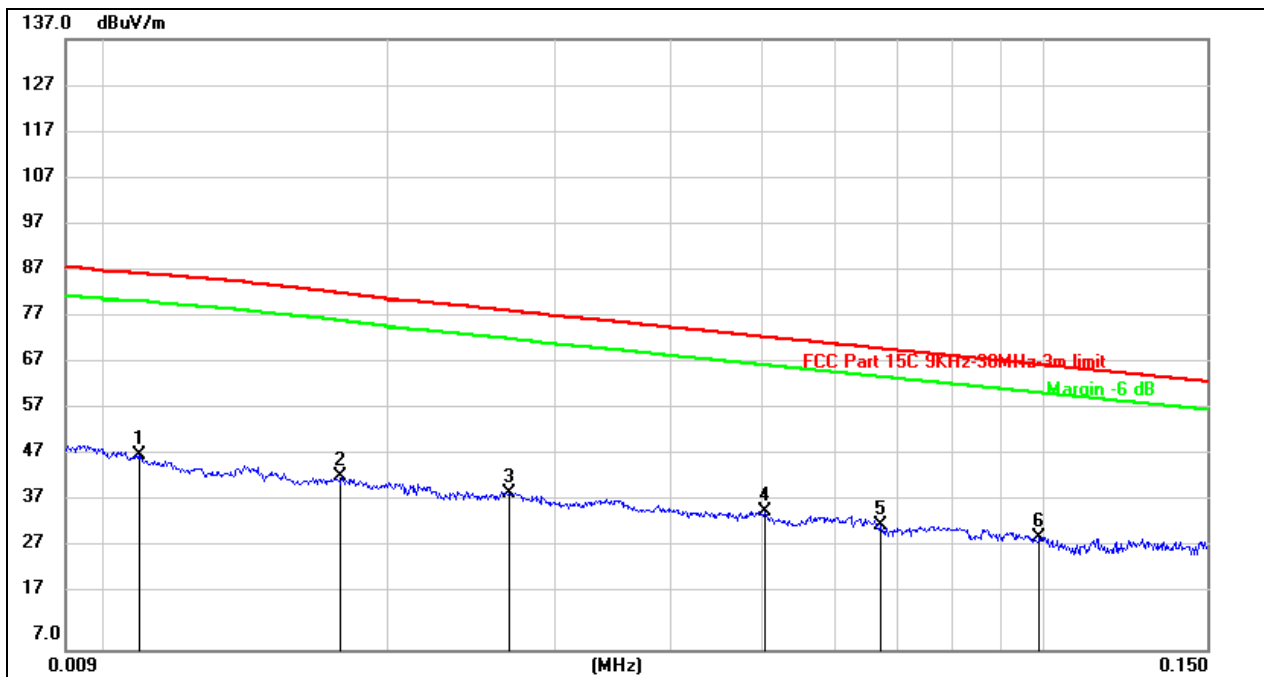
2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.





**SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)**

**9kHz~ 150kHz**



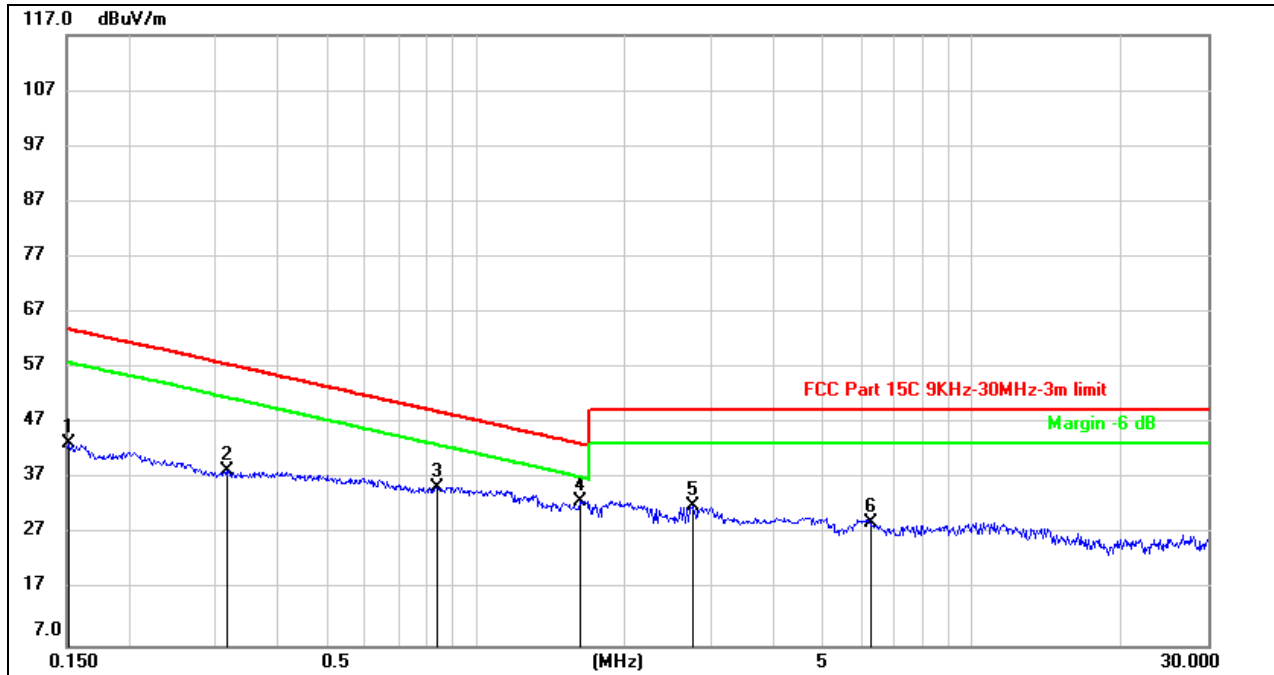
No.	Frequency (KHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0108	28.16	20.22	48.38	87.12	-38.74	peak
2	0.0177	23.46	20.29	43.75	82.96	-39.21	peak
3	0.0269	20.10	20.31	40.41	79.15	-38.74	peak
4	0.0504	16.21	20.31	36.52	73.56	-37.04	peak
5	0.0670	13.31	20.31	33.62	71.10	-37.48	peak
6	0.0990	10.80	20.22	31.02	67.69	-36.67	peak

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.



**150kHz ~ 30MHz**



Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

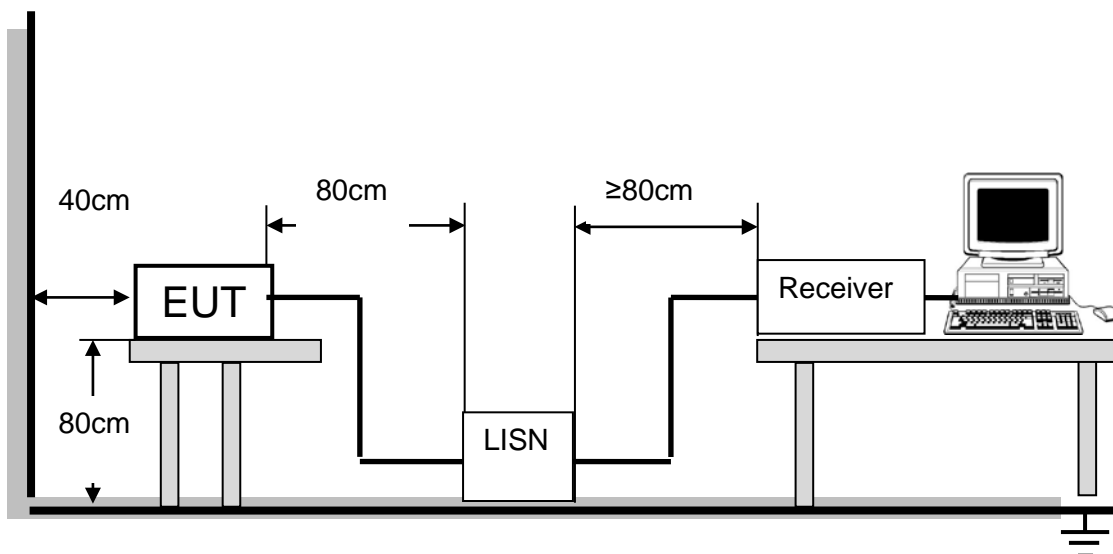
## 8. AC POWER LINE CONDUCTED EMISSIONS

### LIMITS

Please refer to CFR 47 FCC §15.207 (a) and ISED RSS-Gen Clause 8.8

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

### TEST SETUP AND PROCEDURE



The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through an Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10 -2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9kHz.

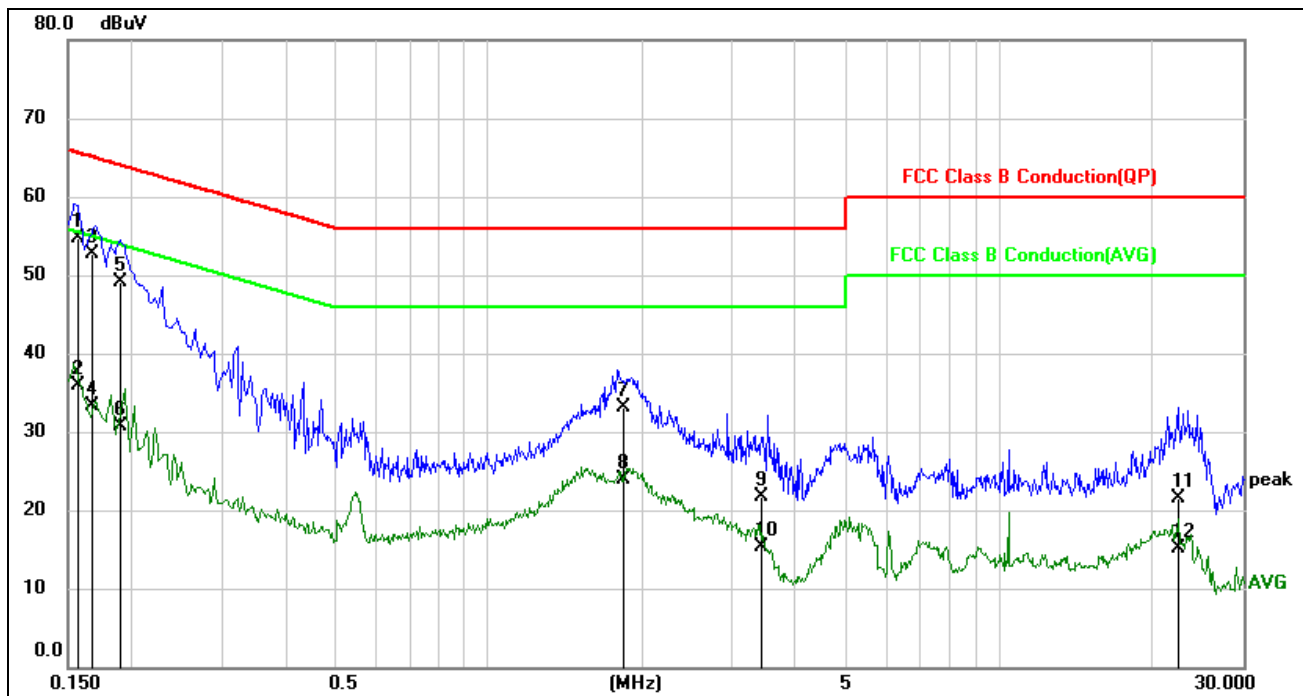
The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.



## TEST RESULTS

### 8.1. 802.11a MODE (WORST-CASE CONFIGURATION)

#### LINE N RESULTS (HIGH CHANNEL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1570	45.13	9.62	54.75	65.62	-10.87	QP
2	0.1570	26.25	9.62	35.87	55.62	-19.75	AVG
3	0.1664	43.10	9.62	52.72	65.14	-12.42	QP
4	0.1664	23.60	9.62	33.22	55.14	-21.92	AVG
5	0.1889	39.55	9.62	49.17	64.08	-14.91	QP
6	0.1889	21.04	9.62	30.66	54.08	-23.42	AVG
7	1.8399	23.50	9.65	33.15	56.00	-22.85	QP
8	1.8399	14.27	9.65	23.92	46.00	-22.08	AVG
9	3.4126	11.96	9.68	21.64	56.00	-34.36	QP
10	3.4126	5.54	9.68	15.22	46.00	-30.78	AVG
11	22.3419	11.68	9.92	21.60	60.00	-38.40	QP
12	22.3419	5.11	9.92	15.03	50.00	-34.97	AVG

Note: 1. Result = Reading +Correct Factor.

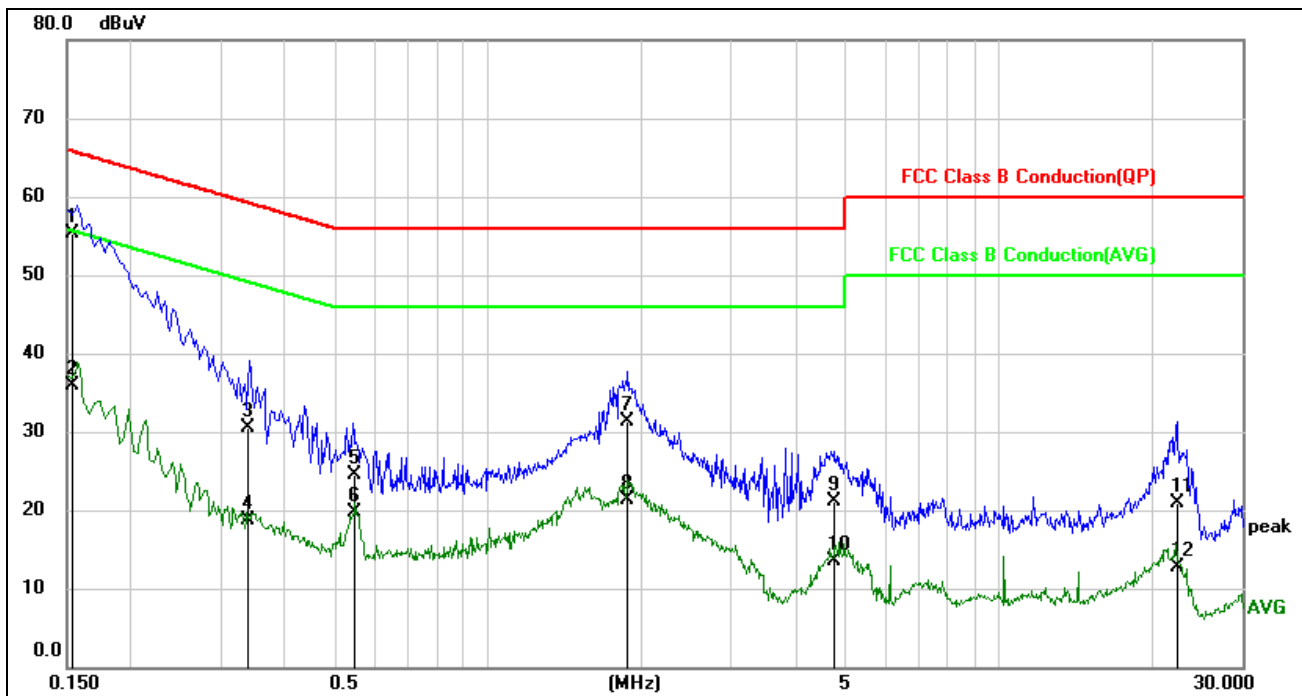
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).

4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.



### LINE L RESULTS (HIGH CHANNEL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1539	45.63	9.64	55.27	65.79	-10.52	QP
2	0.1539	26.32	9.64	35.96	55.79	-19.83	AVG
3	0.3383	20.83	9.63	30.46	59.24	-28.78	QP
4	0.3383	9.12	9.63	18.75	49.24	-30.49	AVG
5	0.5487	14.80	9.63	24.43	56.00	-31.57	QP
6	0.5487	10.16	9.63	19.79	46.00	-26.21	AVG
7	1.8787	21.57	9.66	31.23	56.00	-24.77	QP
8	1.8787	11.63	9.66	21.29	46.00	-24.71	AVG
9	4.7604	11.42	9.71	21.13	56.00	-34.87	QP
10	4.7604	3.76	9.71	13.47	46.00	-32.53	AVG
11	22.2675	10.95	9.88	20.83	60.00	-39.17	QP
12	22.2675	2.74	9.88	12.62	50.00	-37.38	AVG

- Note: 1. Result = Reading +Correct Factor.  
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).  
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.



## 9. FREQUENCY STABILITY

### LIMITS

The frequency of the carrier signal shall be maintained within band of operation

### TEST SETUP AND PROCEDURE

Connect the UUT to the spectrum analyser and use the following settings:

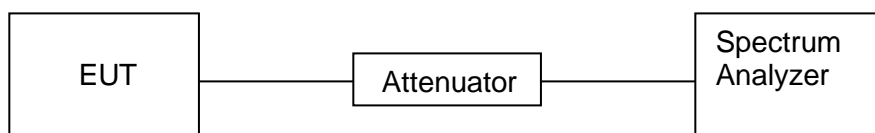
Center Frequency	The center frequency of the channel under test
Detector	PEAK
RBW	10kHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

Allow the trace to stabilize, find the peak value of the power envelope and record the frequency, then calculated the frequency drift.

The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.

User manual temperature is 0°C~45°C.

### TEST SETUP





## **TEST RESULTS (WORST-CASE CONFIGURATION)**

### **Frequency Error vs. Voltage:**

Test Mode	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11A	5200	TN	VL	5200.0171	3.29	PASS
		TN	VN	5200.0241	4.64	PASS
		TN	VH	5200.0121	2.33	PASS
11A	5785	TN	VL	5785.0231	3.99	PASS
		TN	VN	5785.0321	5.55	PASS
		TN	VH	5785.0171	2.96	PASS

### **Frequency Error vs. Temperature:**

Test Mode	Channel	Temp.	Volt.	Freq.Error(MHz)	Freq.vs.rated(ppm)	Verdict
11A	5200	45	VN	5200.0471	9.06	PASS
		40	VN	5200.0221	4.26	PASS
		30	VN	5200.0633	12.17	PASS
		20	VN	5200.0233	4.48	PASS
		10	VN	5200.0357	6.86	PASS
		0	VN	5200.0325	6.26	PASS
11A	5785	45	VN	5785.0531	9.18	PASS
		40	VN	5785.0354	6.12	PASS
		30	VN	5785.0542	9.37	PASS
		20	VN	5785.0214	3.70	PASS
		10	VN	5785.0430	7.43	PASS
		0	VN	5785.0291	5.03	PASS

Note : All the modulation and channels had been tested, but only the worst data recorded in the report.



## 10. DYNAMIC FREQUENCY SELECTION

### APPLICABILITY OF DFS REQUIREMENTS

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	<input type="checkbox"/> Master	<input checked="" type="checkbox"/> Client Without Radar Detection	<input type="checkbox"/> Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	<input type="checkbox"/> Master Device or Client with Radar Detection	<input checked="" type="checkbox"/> Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required

Additional requirements for devices with multiple bandwidth modes	<input type="checkbox"/> Master Device or Client with Radar Detection	<input checked="" type="checkbox"/> Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required

Note: Frequencies selected for statistical performance check should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.





## **LIMITS**

### (1) DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP $\geq$ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.  
Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.  
Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

### (2) DFS Response Requirements

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.  
Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required facilitating a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.  
Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.



## PARAMETERS OF RADAR TEST WAVEFORMS

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

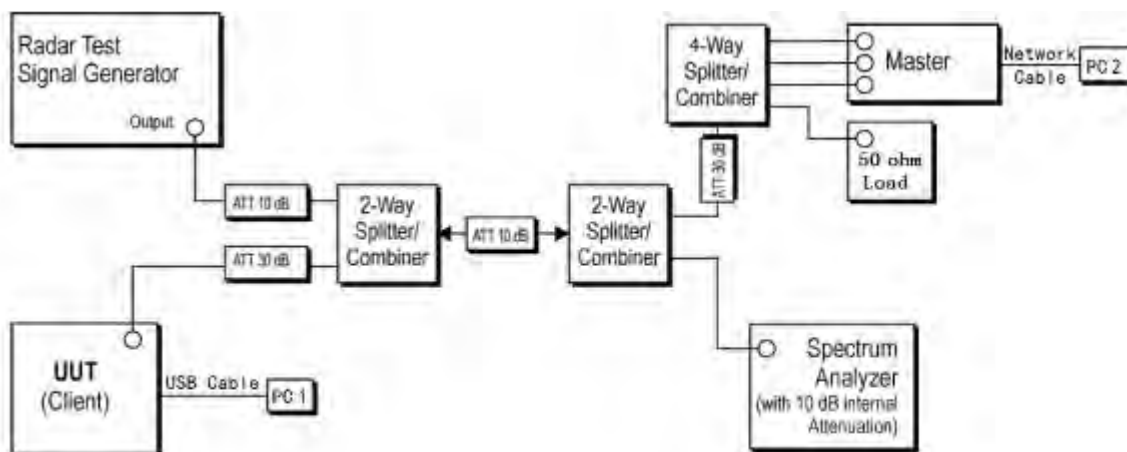
Table 5 Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A	Roundup $\left\lceil \frac{1}{\frac{1}{360} + \frac{19 \cdot 10^9}{PRI_{\mu sec}}} \right\rceil$	60%	30
		Test B			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests. Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A					

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B. Test aggregate is average of the percentage of successful detections of short pulse radar types 1-4

## TEST SETUP

Setup for Client with injection at the Master

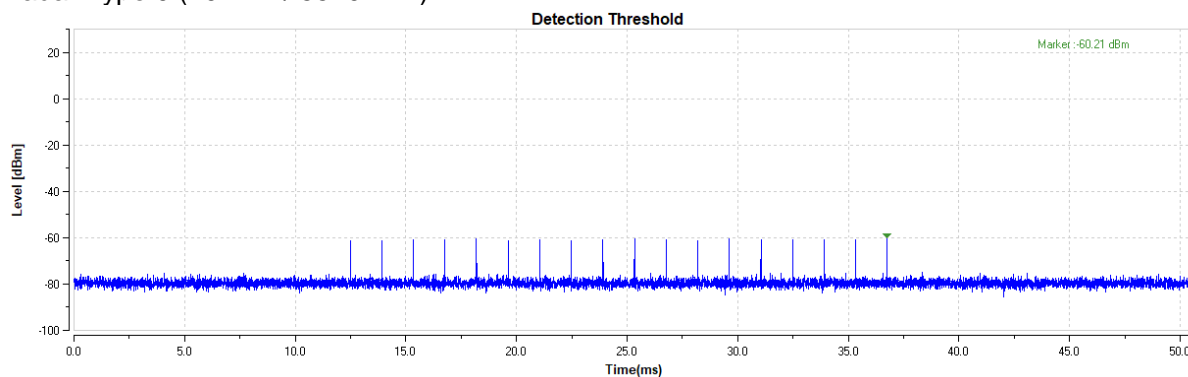


### DFS Detection Threshold levels

DFS Threshold Level:-63.5

The Interference **Radar Detection Threshold Level** is  $(-62\text{dBm}) + (-2.5 [\text{dBi}]) + \{1 \text{ dB}\} = -63.5 \text{ dBm}$ . That had been taken into account the master output power range and antenna gain.

Radar Type 0 (40MHz / 5510MHz)



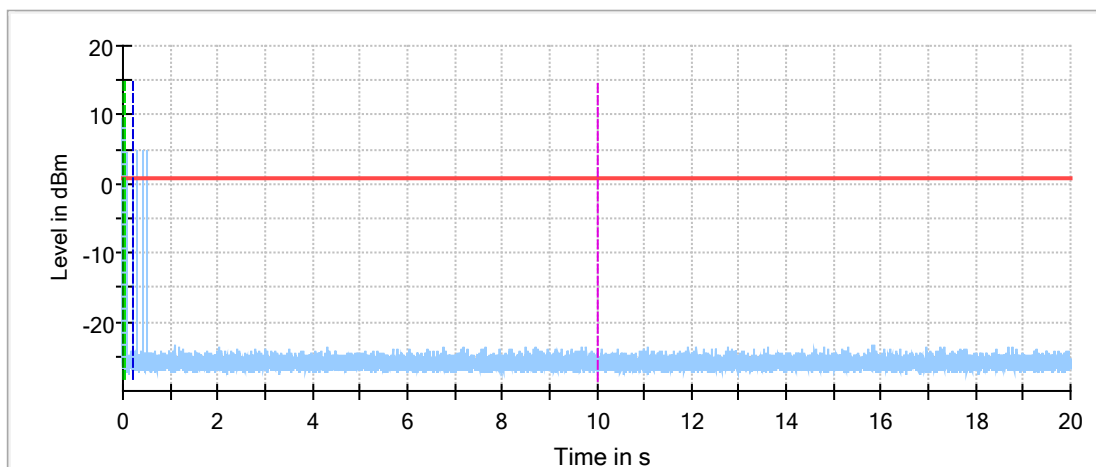


### Test Data

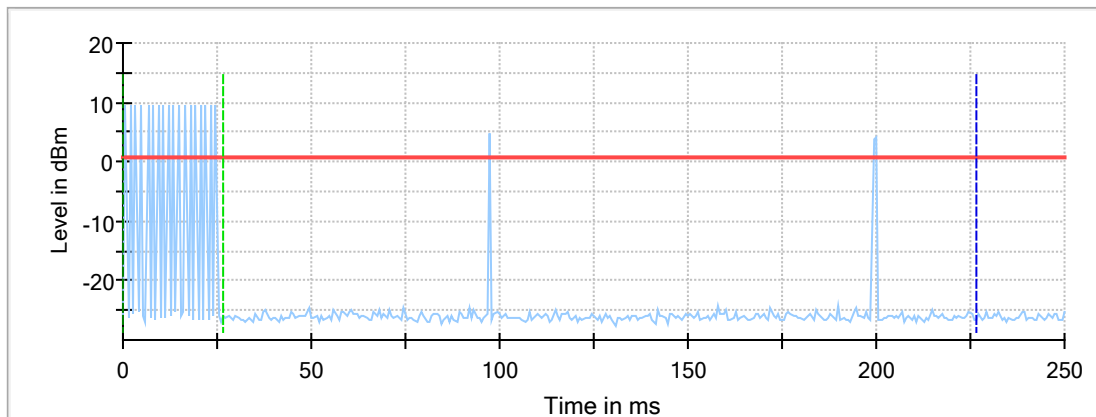
BW/Channel	Test Item	Test Result	Limit	Results
40MHz / 5510MHz	Channel Move Time	0.0156 s	< 10 s	pass
	Channel Closing Transmission Time	0.005 s	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.	pass

Test plots as follows:

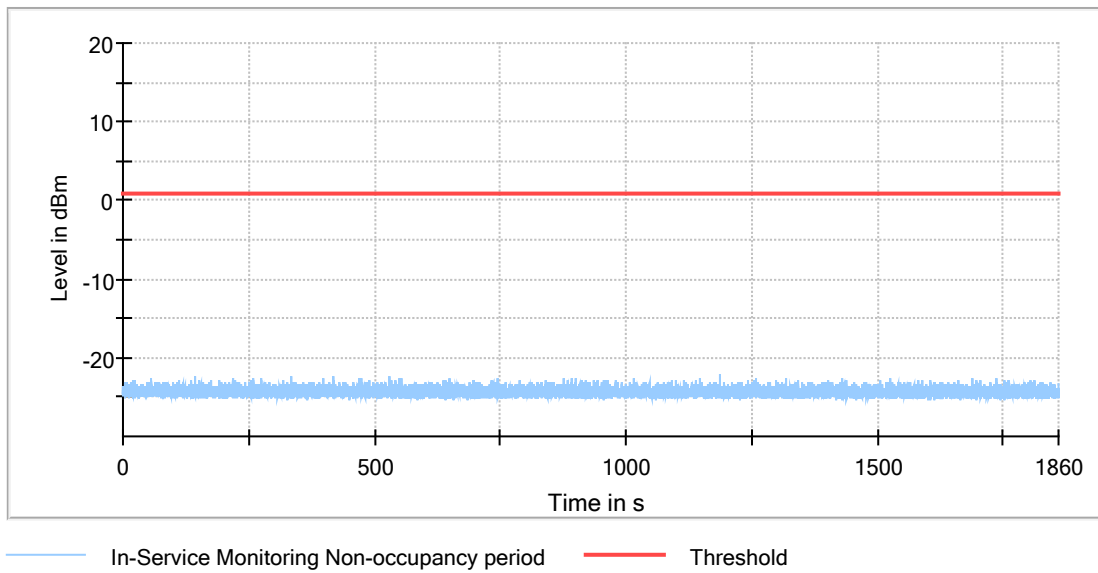
Channel Move Time & Channel Closing Transmission Time



— In-Service Monitoring Channel Move Time      — Threshold  
- - - Start of Radar      - - - Trigger at end of Radar  
- - - First 200ms of Channel Closing Tx Time      - - - 10sec Channel Move Time Limit



— In-Service Monitoring Channel Move Time first 200ms  
— Threshold  
- - - Start of Radar  
- - - Trigger at end of Radar  
- - - First 200ms of Channel Closing Tx Time





## 11. ANTENNA REQUIREMENTS

### **APPLICABLE REQUIREMENTS**

Please refer to FCC §15.203

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.

Please refer to FCC §15.407(a)(1)(2)(3)

The conducted output power limit specified in paragraph (a) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (a)(1), (a)(2), and (a)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### **RESULTS**

Complies

### **END OF REPORT**