

# FCC Radio Test Report

## FCC ID:KA2IR803B1

This report concerns (check one):  Original Grant  Class II Change

**Project No.** : 1408C111  
**Equipment** : 1) Wireless AC750 Dual Band Router  
2) Wireless AC750 Dual Band Easy Router  
**Model Name** : 1) DIR-803  
2) GO-RT-AC750  
**Applicant** : D-Link Corporation  
**Address** : No.289, Sinhu 3rd Rd., Neihu District, Taipei City  
114, Taiwan, R.O.C.

**Date of Receipt** : Aug. 13, 2014  
**Date of Test** : Aug. 13, 2014 ~ Aug. 29, 2014  
**Issued Date** : Sep. 01, 2014  
**Tested by** : BTL Inc.

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### REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-3-1408C111	Original Issue.	Sep. 01, 2014

## 1. CERTIFICATION

Equipment : 1) Wireless AC750 Dual Band Router  
2) Wireless AC750 Dual Band Easy Router  
Brand Name : D-Link  
Model Name : 1) DIR-803  
2) GO-RT-AC750  
Applicant : D-Link Corporation  
Date of Test : Aug. 13, 2014 ~ Aug. 29, 2014  
Test Item : ENGINEERING SAMPLE  
Standard(s) : FCC Part15, Subpart C(15.247) / ANSI63.10 2013

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc..

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-3-1408C111) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

## 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

<b>Applied Standard(s): FCC Part15 (15.247) , Subpart C</b>				
Standard(s)	Section	Test Item	Judgment	Remark
<b>FCC</b>				
15.207		Conducted Emission	PASS	
15.247(d)		Antenna conducted Spurious Emission	PASS	
15.247(a)(2)		6dB Bandwidth	PASS	
15.247(b)(3)		Peak Output Power	PASS	
15.247(e)		Power Spectral Density	PASS	
15.203		Antenna Requirement	PASS	
15.209/15.205		Transmitter Radiated Emissions	PASS	

**NOTE:**

- (1) "N/A" denotes test is not applicable in this test report.
- (2) The test follows FCC KDB Publication No. 558074 D01 DTS Meas Guidance v03r02 (Measurement Guidelines of DTS)

## 2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-C02/DG-CB03** at the location of No.3,Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.523792

BTL's test firm number for FCC: 319330

## 2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95 %.

### A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
DG-C02	CISPR	150 KHz ~ 30MHz	1.94	

### B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U , (dB)	NOTE
DG-CB03	CISPR	9KHz~30MHz	V	3.79	
		9KHz~30MHz	H	3.57	
		30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	H	3.60	
		200MHz ~ 1,000MHz	V	3.86	
		200MHz ~ 1,000MHz	H	3.94	
		1GHz~18GHz	V	3.12	
		1GHz~18GHz	H	3.68	
		18GHz~40GHz	V	4.15	
		18GHz~40GHz	H	4.14	

### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

Equipment	1) Wireless AC750 Dual Band Router 2) Wireless AC750 Dual Band Easy Router	
Brand Name	D-Link	
Model Name	1) DIR-803 2) GO-RT-AC750	
Model Difference	Only differ in model name.	
Product Description	Operation Frequency	5745~5825 MHz
	Modulation Technology	802.11a/n/ac:OFDM
	Bit Rate of Transmitter	11a:6/9/12/18/24/36/48/54Mbps 11n:6.5 to 150Mbps 11ac(draft):6.5 to 433Mbps
	Output Power (Max.)	802.11a: 23.27dBm 802.11n (20M): 23.28dBm 802.11n (40M): 23.76dBm 802.11ac (20M): 23.28 dBm 802.11ac (40M): 23.73 dBm 802.11ac (80M): 23.52 dBm
Power Source	DC Voltage supplied from AC/DC adapter. #1 Brand/Model:D-Link/PSAC05A-050 #2 Brand/Model:D-Link/AMS20-0501000FU2	
Power Rating	#1 I/P: AC 100-240V~0.2A 50-60Hz 12-16VA O/P: DC 5V/1A #2 I/P: AC 100-240V~50/60Hz 0.2A/15VA O/P: DC 5V/1.0A	
Connecting I/O Port(s)	Please refer to the User's Manual	

**Note:**

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.

802.11a / 802.11n 20M / 802.11ac 20M					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
<b>149</b>	<b>5745</b>	153	5765	<b>157</b>	<b>5785</b>
161	5805	<b>165</b>	<b>5825</b>		

802.11n 40M / 802.11ac 40M			
Channel	Frequency (MHz)	Channel	Frequency (MHz)
<b>151</b>	<b>5755</b>	<b>159</b>	<b>5795</b>

802.11ac 80M			
Channel	Frequency (MHz)		
<b>155</b>	<b>5775</b>		

3. Table for Filed Antenna

Ant.	Manufacturer	Model Name	Antenna Type	Gain (dBi)
1	Nienyi Industrial Corp.	N/A	Dipole	4.1

### 3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	TX A MODE CHANNEL 149/157/165
Mode 2	TX N-20MHZ MODE CHANNEL 149/157/165
Mode 3	TX N-40MHZ MODE CHANNEL 151/159
Mode 4	TX AC N20 Mode Channel 149/157/165
Mode 5	TX AC N40 Mode Channel 151/159
Mode 6	TX AC N80 Mode Channel 155
Mode 7	TX MODE

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Test	
Final Test Mode	Description
Mode 4	TX MODE

For Radiated Test	
Final Test Mode	Description
Mode 1	TX A Mode Channel 149/157/165
Mode 2	TX N20 Mode Channel 149/157/165
Mode 3	TX N40 Mode Channel 151/159
Mode 4	TX AC N20 Mode Channel 149/157/165
Mode 5	TX AC N40 Mode Channel 151/159
Mode 6	TX AC N80 Mode Channel 155

Note:

(1) For radiated below 1G test, the 802.11a is found to be the worst case and recorded.

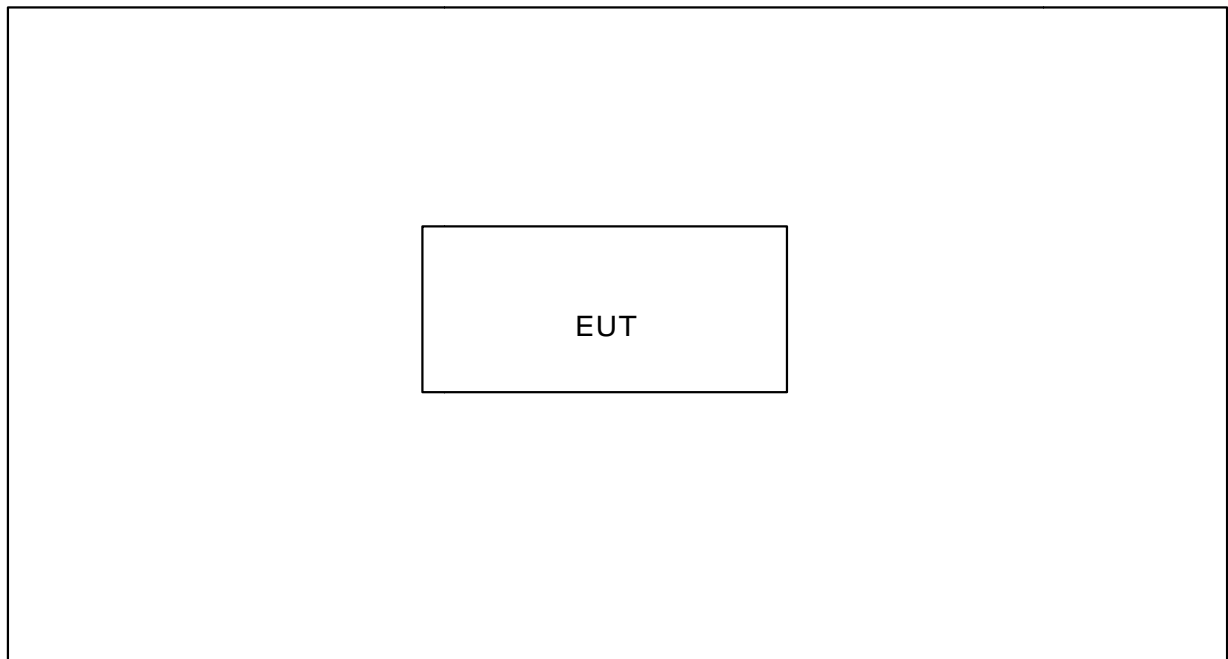
### 3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing, channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN

Test software version	MTOOL		
Frequency	5745 MHz	5785 MHz	5825MHz
TX A Mode	54	58	61
TX N20 Mode	56	59	63
TX AC 20 Mode	56	59	62

Test software version	MTOOL	
Frequency	5755 MHz	5795MHz
TX N40 Mode	60	63
TX AC 40 Mode	61	63

Test software version	MTOOL	
Frequency	5775 MHz	
TX AC 80 Mode	63	

**3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED**

### 3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
-	-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
-	-	-	-	-

## 4. EMC EMISSION TEST

### 4.1 CONDUCTED EMISSION MEASUREMENT

#### 4.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

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

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

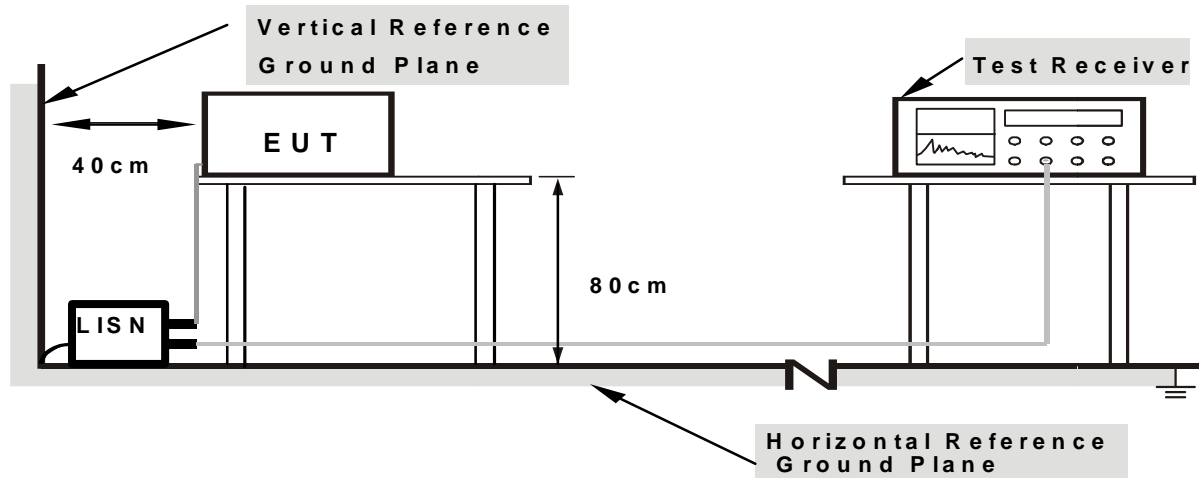
#### 4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 4.1.3 DEVIATION FROM TEST STANDARD

No deviation

#### 4.1.4 TEST SETUP



- Note:**
1. Support units were connected to second LISN.
  2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

#### 4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

#### 4.1.6 EUT TEST CONDITIONS

Temperature: 25°C  
 Relative Humidity: 55%  
 Test Voltage: AC 120V/60Hz

#### 4.1.7 TEST RESULTS

Please refer to the Attachment A.

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of 'Note'. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a "\*" marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150KHz to 30MHz.

## 4.2 RADIATED EMISSION MEASUREMENT

### 4.2.1 RADIATED EMISSION LIMITS (Frequency Range 9KHz-1000MHz)

20dB in any 100 KHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

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

### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Frequency (MHz)	(dBuV/m) (at 3 meters)	
	PEAK	AVERAGE
Above 1000	74	54

#### Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9KHz~90KHz for PK/AVG detector
Start ~ Stop Frequency	90KHz~110KHz for QP detector
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector
Start ~ Stop Frequency	490KHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

**4.2.2 TEST PROCEDURE**

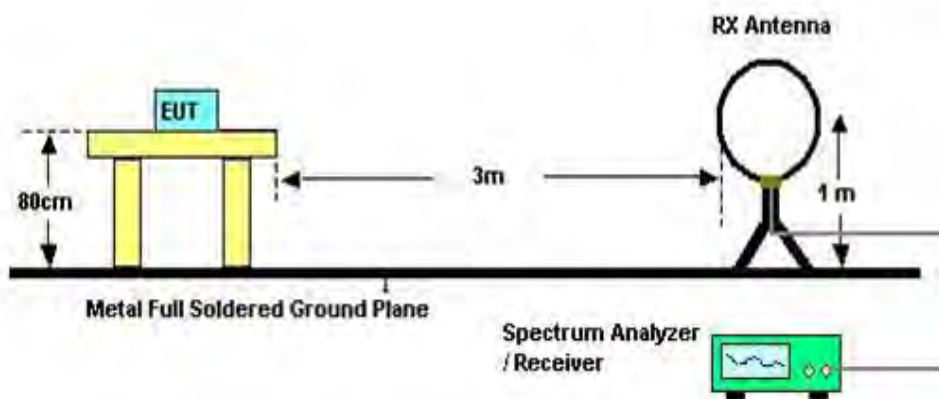
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. 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.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

**4.2.3 DEVIATION FROM TEST STANDARD**

No deviation



(C) For radiated emissions below 30MHz



#### 4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

#### 4.2.6 EUT TEST CONDITIONS

Temperature: 25°C

Relative Humidity: 55%

Test Voltage: AC 120V/60Hz

#### 4.2.7 TEST RESULTS (9K TO 30MHZ)

Please refer to the Attachment B

#### 4.2.8 TEST RESULTS (BETWEEN 30 TO 1000 MHZ)

Please refer to the Attachment C

Remark:

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz.
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (3) Measuring frequency range from 30MHz to 1000MHz.
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.

#### 4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment D.

Remark:

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (3) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (5) EUT Orthogonal Axis:  
"X" - denotes Laid on Table; "Y" - denotes Vertical Stand; "Z" - denotes Side Stand
- (6) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

## 5. BANDWIDTH TEST

### 5.1 Applied procedures

FCC Part15 (15.247) , Subpart C			
Section	Test Item	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	5725 - 5825	PASS

#### 5.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = Auto.

#### 5.1.2 DEVIATION FROM STANDARD

No deviation.

#### 5.1.3 TEST SETUP



#### 5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

#### 5.1.5 EUT TEST CONDITIONS

Temperature: 25°C  
 Relative Humidity: 55%  
 Test Voltage: AC 120V/60Hz

#### 5.1.6 TEST RESULTS

Please refer to the Attachment E.

## 6. MAXIMUM OUTPUT POWER TEST

### 6.1 Applied procedures / limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Maximum Output Power	1 Watt or 30dBm	5725 - 5825	PASS

#### 6.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- b. The maximum peak conducted output power was performed in accordance with method 9.1.3 of FCC KDB 558074 D01 DTS Meas Guidance v03r02.

#### 6.1.2 DEVIATION FROM STANDARD

No deviation.

#### 6.1.3 TEST SETUP



#### 6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Transmit output power was measured while the host equipment supply voltage was varied from 85 % to 115 % of the nominal rated supply voltage. No change in transmit output power was observed.

#### 6.1.5 EUT TEST CONDITIONS

Temperature: 25°C

Relative Humidity: 55%

Test Voltage: AC 120V/60Hz

#### 6.1.6 TEST RESULTS

Please refer to the Attachment F.

## 7. ANTENNA CONDUCTED SPURIOUS EMISSION

### 7.1 Applied procedures / limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

#### 7.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = Auto.

#### 7.1.2 DEVIATION FROM STANDARD

No deviation.

#### 7.1.3 TEST SETUP



#### 7.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

#### 7.1.5 EUT TEST CONDITIONS

Temperature: 25°C  
Relative Humidity: 55%  
Test Voltage: AC 120V/60Hz

#### 7.1.6 TEST RESULTS

Please refer to the Attachment G.

## 8. POWER SPECTRAL DENSITY TEST

### 8.1 Applied procedures / limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	8 dBm (in any 3KHz)	5745 - 5825	PASS

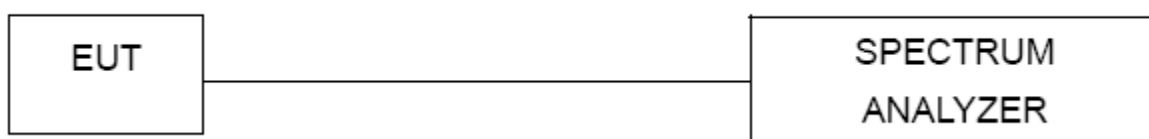
#### 8.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW=3KHz, VBW=10KHz, Sweep time = Auto.

#### 8.1.2 DEVIATION FROM STANDARD

No deviation.

#### 8.1.3 TEST SETUP



#### 8.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

#### 8.1.5 EUT TEST CONDITIONS

Temperature: 25°C  
 Relative Humidity: 55%  
 Test Voltage: AC 120V/60Hz

#### 8.1.6 TEST RESULTS

Please refer to the Attachment H.

## 9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	00052765	Mar. 29, 2015
2	LISN	R&S	ENV216	101447	Mar. 29, 2015
3	Test Cable	N/A	C_17	N/A	Mar. 14, 2015
4	EMI TEST RECEIVER	R&S	ESCS30	833364/017	Mar. 29, 2015
5	50Ω Terminator	SHX	TF2-3G-A	08122902	Mar. 29, 2015

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	EMCO	3142C	00066462	Mar. 29, 2015
2	Antenna	EMCO	3142C	00066464	Mar. 29, 2015
3	Amplifier	Agilent	8447D	2944A11203	Nov. 11, 2014
4	Amplifier	Agilent	8447D	2944A11204	Nov. 11, 2014
5	Spectrum Analyzer	Agilent	E4443A	MY48250370	Nov. 11, 2014
6	RF Pre-selector	Agilent	N9039A	MY46520201	Nov. 11, 2014
7	Test Cable	N/A	Cable_5m_8m_15m	N/A	Jan. 14, 2015
8	Test Cable	N/A	Cable_5m_11m_15m	N/A	Jan. 14, 2015
9	Spectrum Analyzer	Agilent	E4447A	MY48250208	Nov. 11, 2014
10	RF Pre-selector	Agilent	N9039A	MY46520214	Nov. 11, 2014
11	Multi-Device Controller	ETS-Lindgren	2090	N/A	N/A
12	Horn Antenna	EMCO	3115	9605-4803	Mar. 29, 2015
13	Amplifier	Agilent	8449B	3008A02584	Nov. 11, 2014
14	Spectrum Analyzer	Agilent	E4447A	MY48250208	Nov. 11, 2014
15	Test Cable	Huber+Suhner	SUCOFLEX_15m_4m	N/A	Jan. 14, 2015
16	Multi-Device Controller	ETS-Lindgren	2090	N/A	N/A
17	Broad-Band Horn Antenna ( 40G )	Schwarzbeck	BBHA 9170	9170319	Feb. 22, 2015

??

6dB Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 11, 2014

Peak Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	P-series Power meter	Agilent	N1911A	MY45100473	Apr. 24, 2015
2	Wireband Power sensor	Agilent	N1921A	MY51100041	Apr. 24, 2015

Antenna Conducted Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 11, 2014

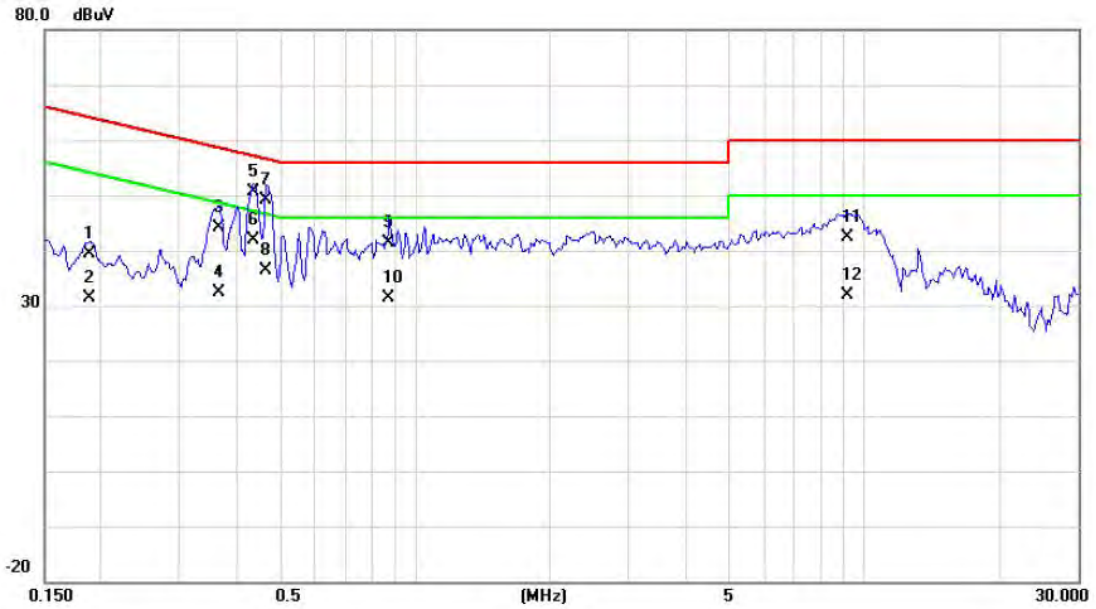
Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 11, 2014

Remark: "N/A" denotes no model name, serial no. or calibration specified.  
 All calibration period of equipment list is one year.

## ATTACHMENT A - CONDUCTED EMISSION

Test Mode : TX MODE

### Line

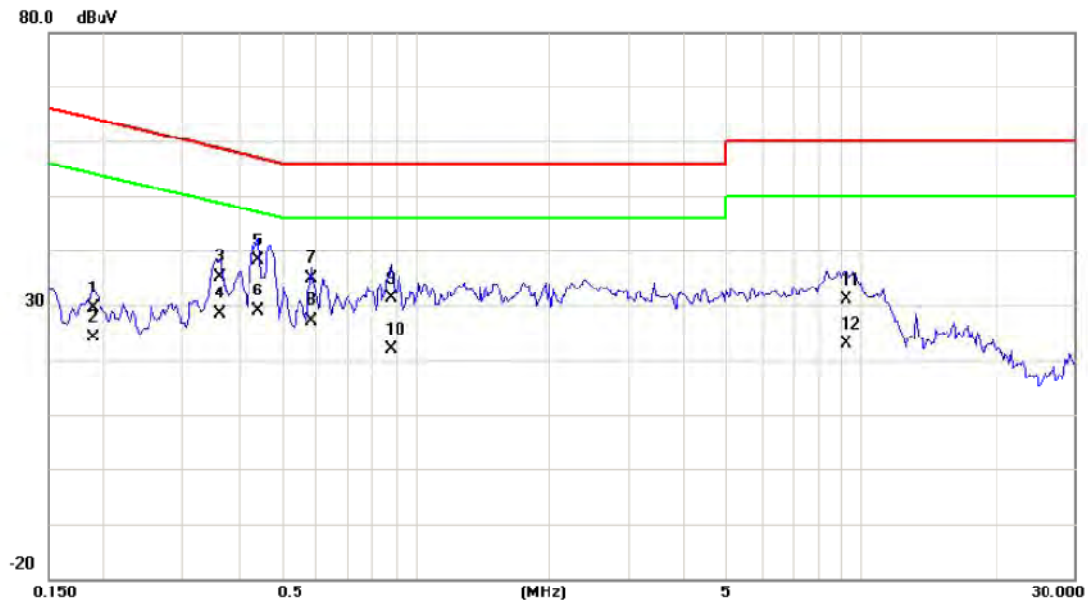


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.1891	29.80	9.54	39.34	64.08	-24.74	QP	
2	0.1891	21.90	9.54	31.44	54.08	-22.64	AVG	
3	0.3688	34.40	9.63	44.03	58.53	-14.50	QP	
4	0.3688	22.70	9.63	32.33	48.53	-16.20	AVG	
5	0.4391	41.00	9.66	50.66	57.08	-6.42	QP	
6 *	0.4391	32.10	9.66	41.76	47.08	-5.32	AVG	
7	0.4664	39.40	9.69	49.09	56.58	-7.49	QP	
8	0.4664	26.60	9.69	36.29	46.58	-10.29	AVG	
9	0.8766	31.80	9.67	41.47	56.00	-14.53	QP	
10	0.8766	21.60	9.67	31.27	46.00	-14.73	AVG	
11	9.1641	32.20	10.06	42.26	60.00	-17.74	QP	
12	9.1641	21.80	10.06	31.86	50.00	-18.14	AVG	

Note : The test result has included the cable loss.

Test Mode : TX MODE

### Neutral



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.1890	29.40	0.07	29.47	64.08	-34.61	QP	
2	0.1890	24.00	0.07	24.07	54.08	-30.01	AVG	
3	0.3648	35.10	0.09	35.19	58.62	-23.43	QP	
4	0.3648	28.20	0.09	28.29	48.62	-20.33	AVG	
5	0.4430	38.10	0.09	38.19	57.01	-18.82	QP	
6 *	0.4430	28.70	0.09	28.79	47.01	-18.22	AVG	
7	0.5835	34.80	0.11	34.91	56.00	-21.09	QP	
8	0.5835	26.90	0.11	27.01	46.00	-18.99	AVG	
9	0.8804	30.90	0.13	31.03	56.00	-24.97	QP	
10	0.8804	21.80	0.13	21.93	46.00	-24.07	AVG	
11	9.2577	30.50	0.48	30.98	60.00	-29.02	QP	
12	9.2577	22.40	0.48	22.88	50.00	-27.12	AVG	

Note : The test result has included the cable loss.

**Conducted Measurement Photos**

**ATTACHMENT B - RADIATED EMISSION (9KHZ TO 30MHZ)**

Test Mode : TX Mode

Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
0.0814	0°	-3.85	21.77	17.92	89.39	-71.47	AVG
0.0814	0°	2.51	21.77	24.28	109.39	-85.11	PEAK
0.1523	0°	-2.96	20.60	17.64	83.95	-66.31	AVG
0.1523	0°	1.97	20.60	22.57	103.95	-81.38	PEAK
0.1963	0°	-4.71	20.51	15.80	81.75	-65.95	AVG
0.1963	0°	1.12	20.51	21.63	101.75	-80.12	PEAK
0.2040	0°	-1.04	20.49	19.45	81.41	-61.96	AVG
0.2040	0°	2.96	20.49	23.45	101.41	-77.96	PEAK
3.6578	0°	8.24	18.97	27.21	69.54	-42.33	QP
18.8563	0°	5.37	17.56	22.93	69.54	-46.61	QP

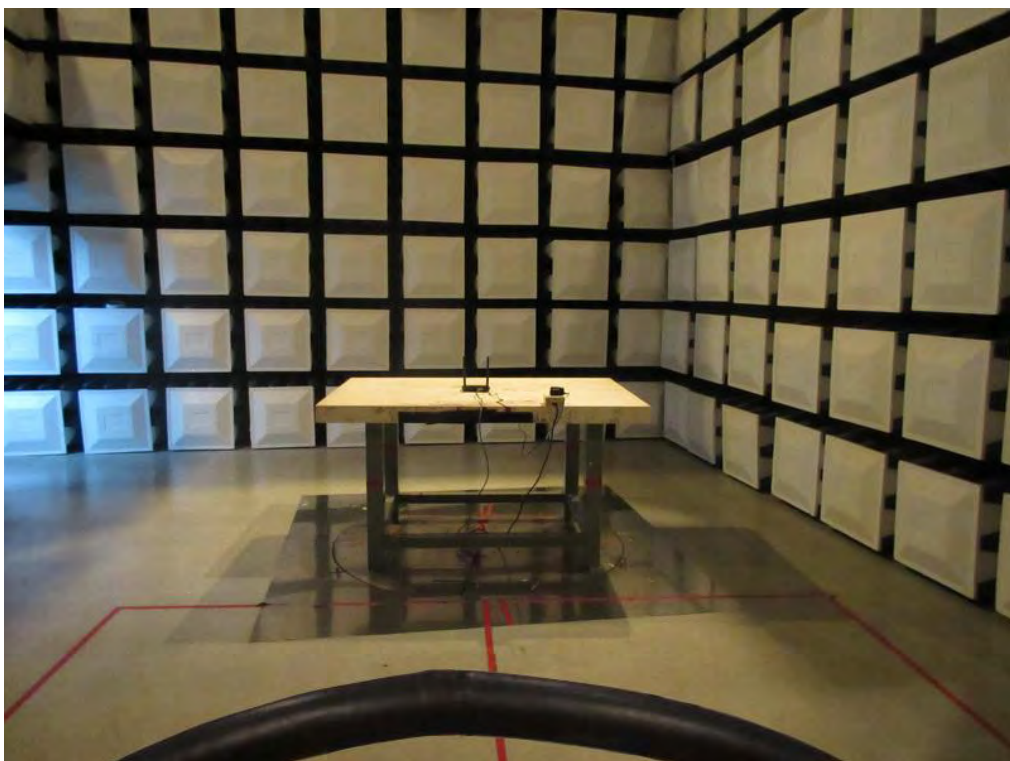
Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
0.0675	90°	-4.56	22.05	17.49	111.02	-93.53	AVG
0.0675	90°	0.89	22.05	22.94	131.02	-108.08	PEAK
0.1396	90°	-1.98	20.77	18.79	104.71	-85.92	AVG
0.1396	90°	0.25	20.77	21.02	124.71	-103.69	PEAK
0.1524	90°	-2.65	20.60	17.95	103.94	-86.00	AVG
0.1524	90°	0.04	20.60	20.64	123.94	-103.31	PEAK
0.1862	90°	-3.62	20.53	16.91	102.20	-85.30	AVG
0.1862	90°	-1.08	20.53	19.45	122.20	-102.76	PEAK
3.0047	90°	7.52	18.90	26.42	69.54	-43.12	QP
9.6475	90°	10.34	17.83	28.17	69.54	-41.37	QP

Remark:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor = 40 log (specific distance / test distance) (dB);
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor.

## Radiated Measurement Photos

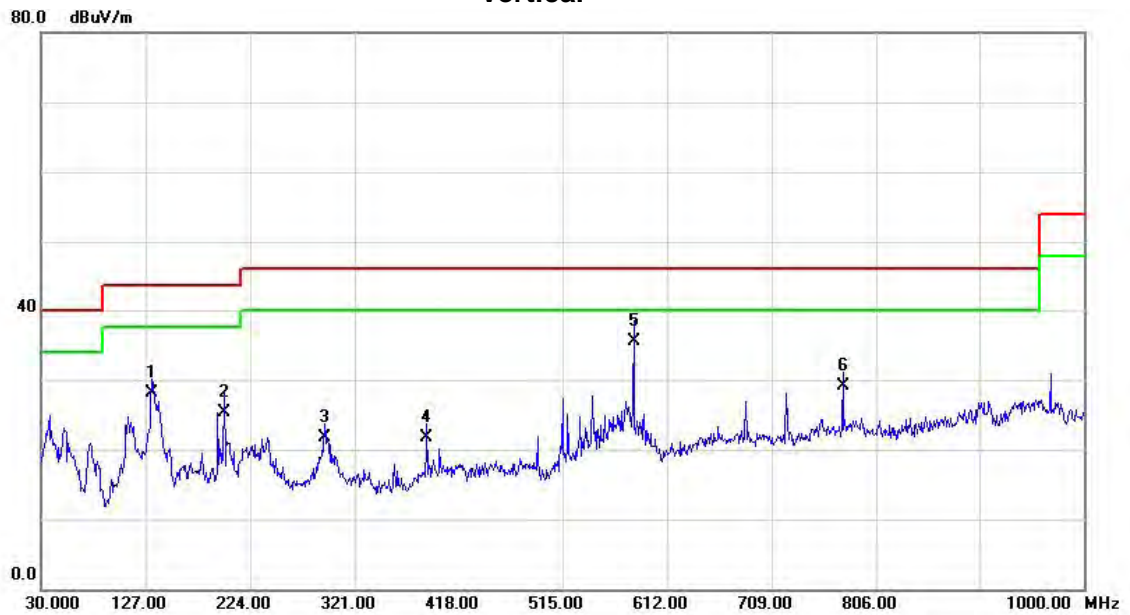
9KHz to 30MHz



**ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)**

Test Mode: TX A MODE 5745MHz

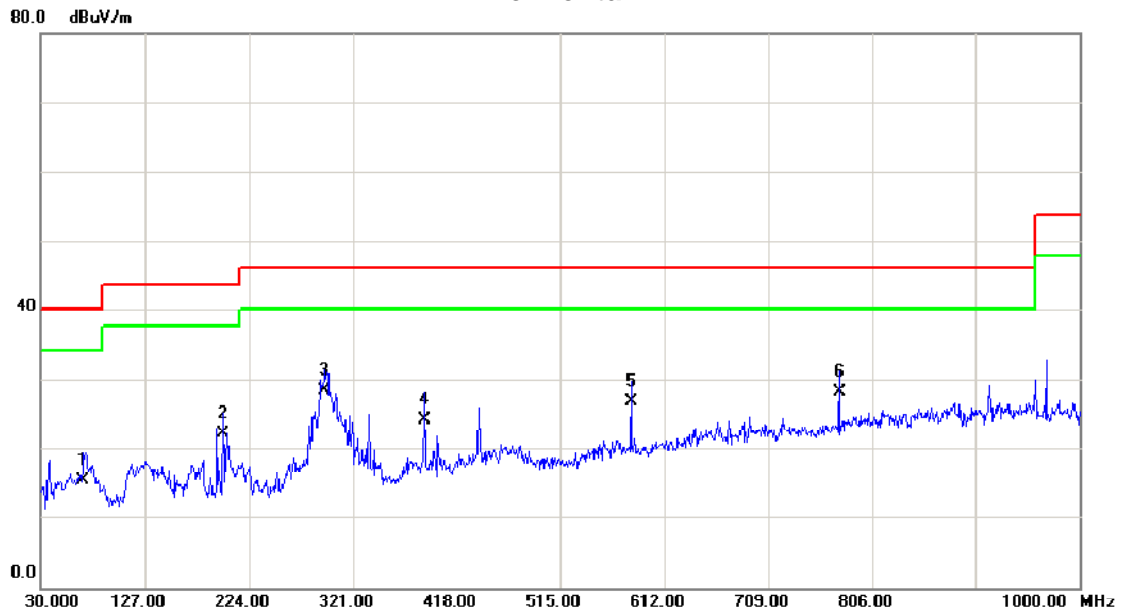
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		132.8200	41.19	-13.09	28.10	43.50	-15.40	QP	
2		199.7500	40.18	-14.97	25.21	43.50	-18.29	QP	
3		292.8700	32.76	-11.12	21.64	46.00	-24.36	QP	
4		387.9300	31.72	-10.07	21.65	46.00	-24.35	QP	
5	*	580.9600	43.48	-7.92	35.56	46.00	-10.44	QP	
6		774.9600	32.93	-3.76	29.17	46.00	-16.83	QP	

Test Mode: TX A MODE 5745MHz

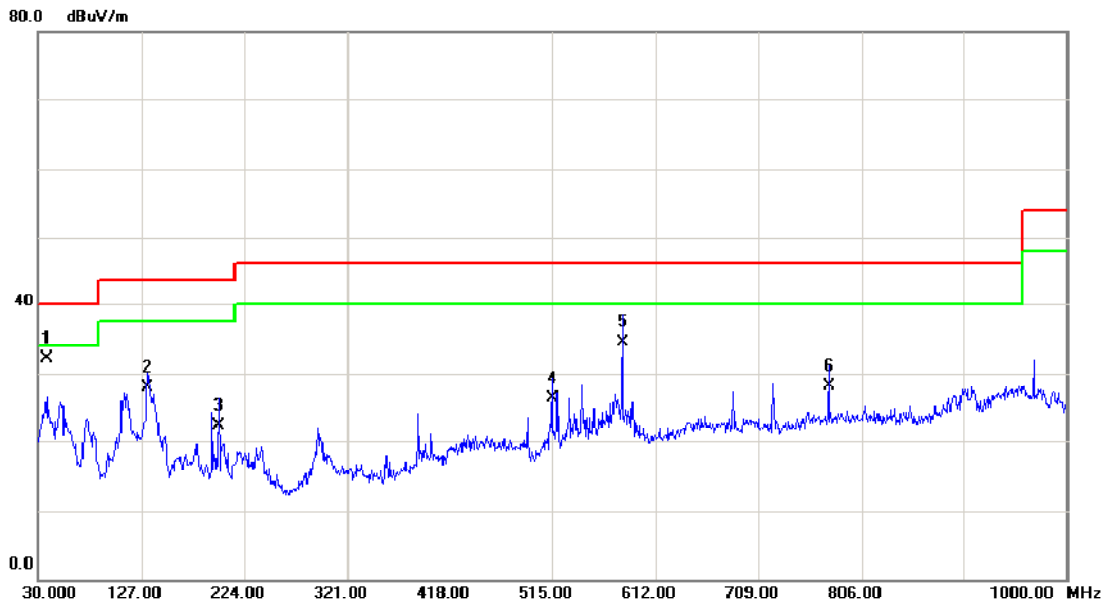
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		69.7700	31.58	-16.22	15.36	40.00	-24.64	QP	
2		199.7500	37.07	-14.97	22.10	43.50	-21.40	QP	
3	*	294.8100	39.44	-11.09	28.35	46.00	-17.65	QP	
4		387.9300	34.17	-10.07	24.10	46.00	-21.90	QP	
5		580.9600	34.66	-7.92	26.74	46.00	-19.26	QP	
6		774.9600	31.86	-3.76	28.10	46.00	-17.90	QP	

Test Mode: TX A MODE 5785MHz

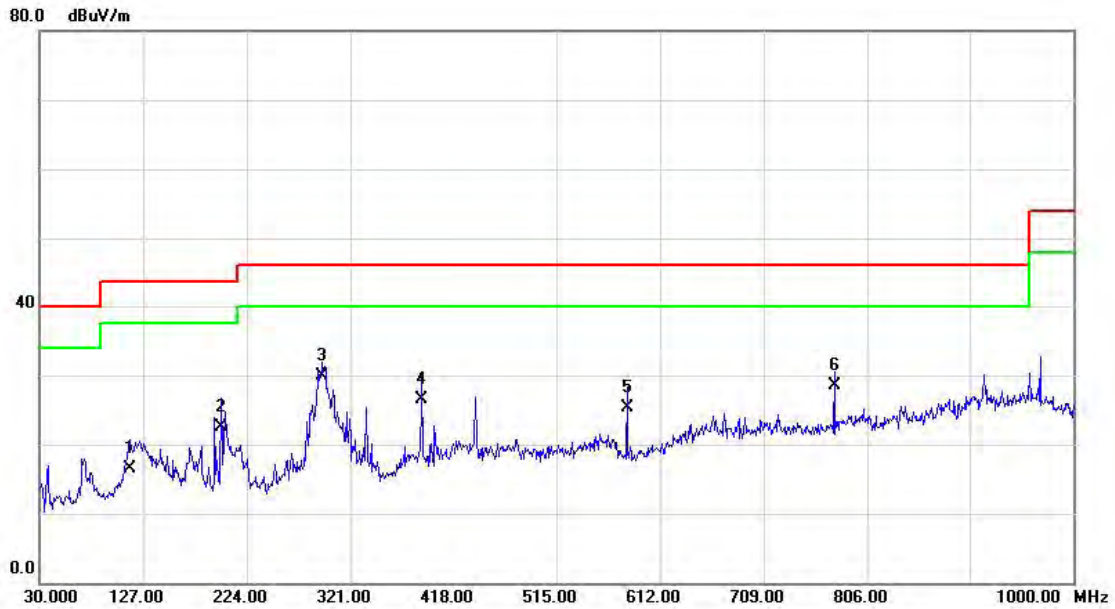
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	37.7600	46.39	-14.38	32.01	40.00	-7.99	QP	
2		132.8200	41.00	-13.09	27.91	43.50	-15.59	QP	
3		199.7500	37.18	-14.97	22.21	43.50	-21.29	QP	
4		515.0000	36.00	-9.74	26.26	46.00	-19.74	QP	
5		580.9600	42.48	-7.92	34.56	46.00	-11.44	QP	
6		774.9600	31.93	-3.76	28.17	46.00	-17.83	QP	

Test Mode: TX A MODE 5785MHz

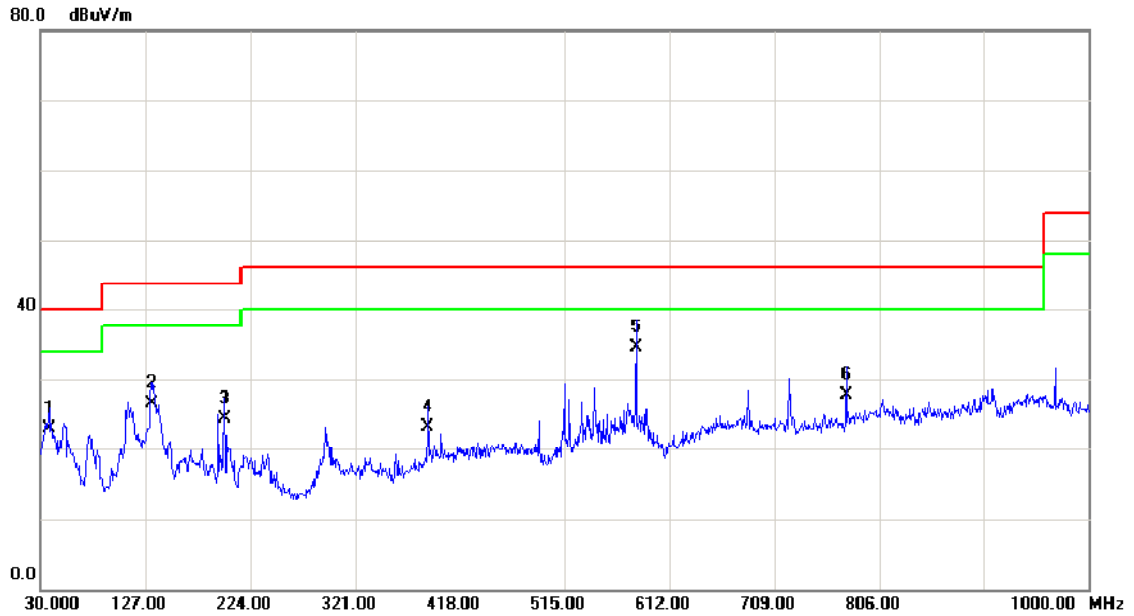
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		114.3900	31.24	-14.81	16.43	43.50	-27.07	QP	
2		199.7500	37.57	-14.97	22.60	43.50	-20.90	QP	
3	*	294.8100	40.94	-11.09	29.85	46.00	-16.15	QP	
4		387.9300	36.67	-10.07	26.60	46.00	-19.40	QP	
5		580.9600	33.16	-7.92	25.24	46.00	-20.76	QP	
6		774.9600	32.36	-3.76	28.60	46.00	-17.40	QP	

Test Mode: TX A MODE 5825MHz

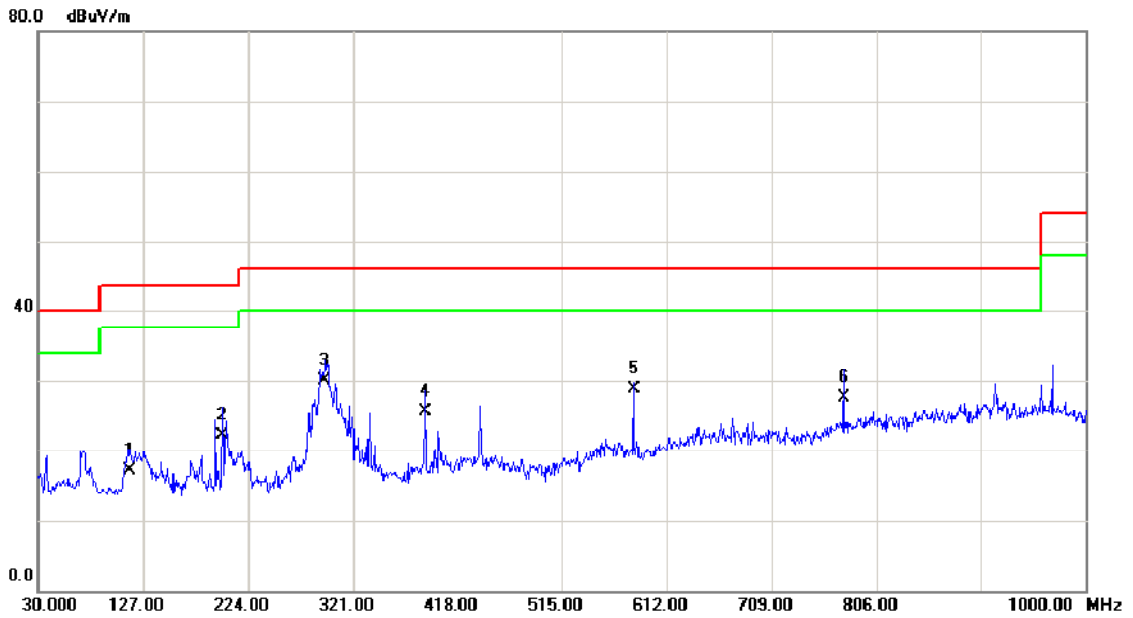
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		37.7600	37.34	-14.38	22.96	40.00	-17.04	QP	
2		132.8200	39.69	-13.09	26.60	43.50	-16.90	QP	
3		199.7500	39.18	-14.97	24.21	43.50	-19.29	QP	
4		387.9300	33.22	-10.07	23.15	46.00	-22.85	QP	
5	*	580.9600	42.48	-7.92	34.56	46.00	-11.44	QP	
6		774.9600	31.43	-3.76	27.67	46.00	-18.33	QP	

Test Mode: TX A MODE 5825MHz

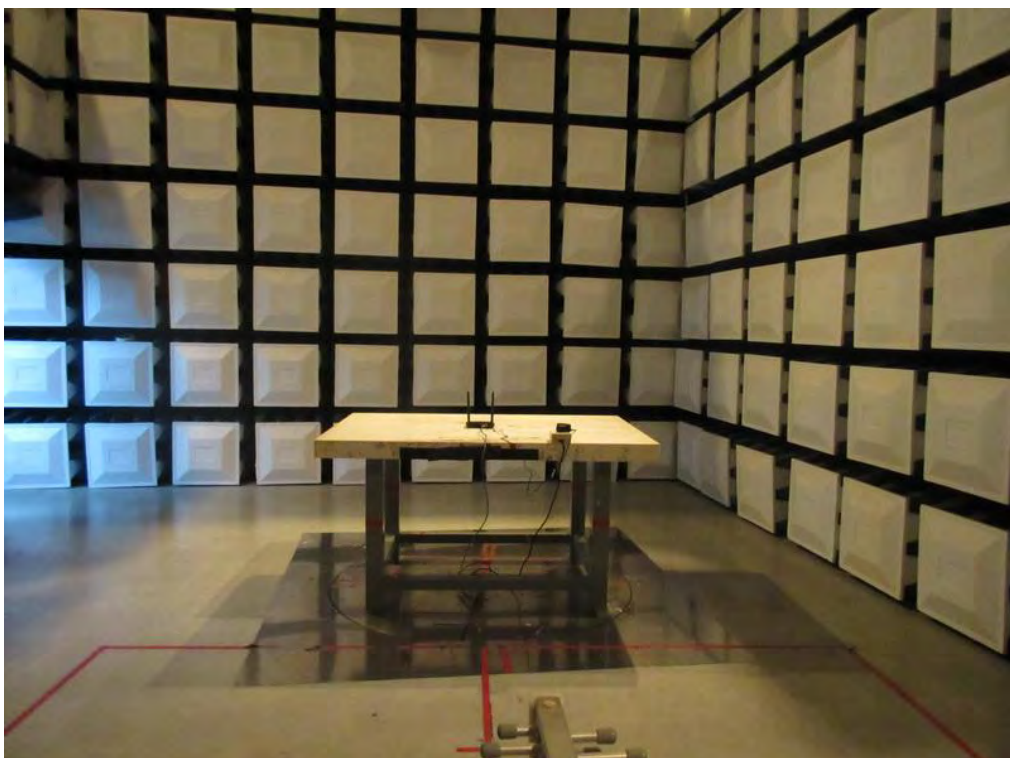
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		114.3900	31.98	-14.81	17.17	43.50	-26.33	QP	
2		199.7500	37.07	-14.97	22.10	43.50	-21.40	QP	
3	*	294.8100	40.94	-11.09	29.85	46.00	-16.15	QP	
4		387.9300	35.67	-10.07	25.60	46.00	-20.40	QP	
5		580.9600	36.56	-7.92	28.64	46.00	-17.36	QP	
6		774.9600	31.36	-3.76	27.60	46.00	-18.40	QP	

## Radiated Measurement Photos

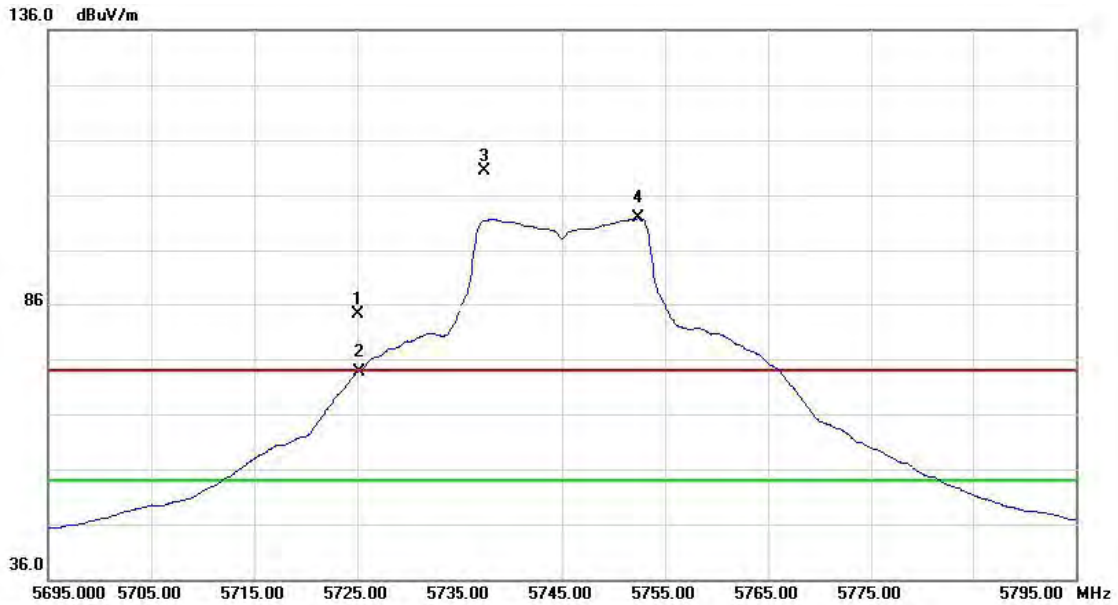
30MHz to 1000MHz



**ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)**

Orthogonal Axis :	X
Test Mode :	TX A Mode 5745MHz

### Vertical

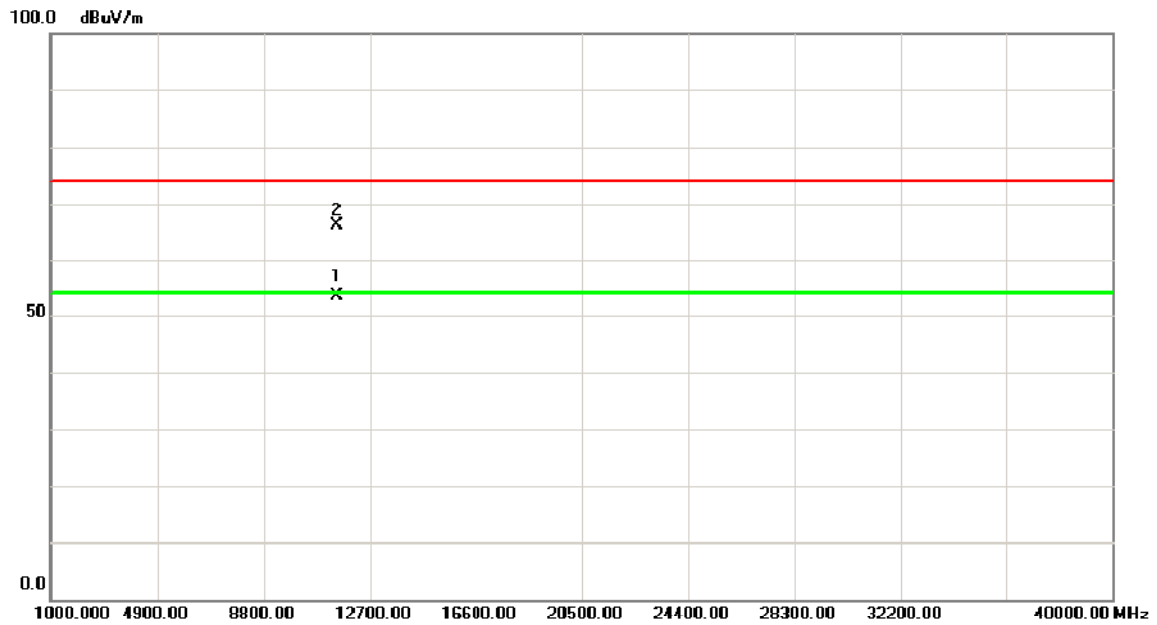


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5725.000	39.66	44.58	84.24	74.00	10.24	peak	
2	X	5725.000	29.10	44.58	73.68	54.00	19.68	AVG	
3	X	5737.400	65.80	44.64	110.44	74.00	36.44	peak	Fundamental frequency, no limit
4	*	5752.400	57.05	44.72	101.77	54.00	47.77	AVG	Fundamental frequency, no limit

Note: The band edge frequency Limit line= fundamental - 20dB

Orthogonal Axis :	X
Test Mode :	TX A Mode 5745MHz

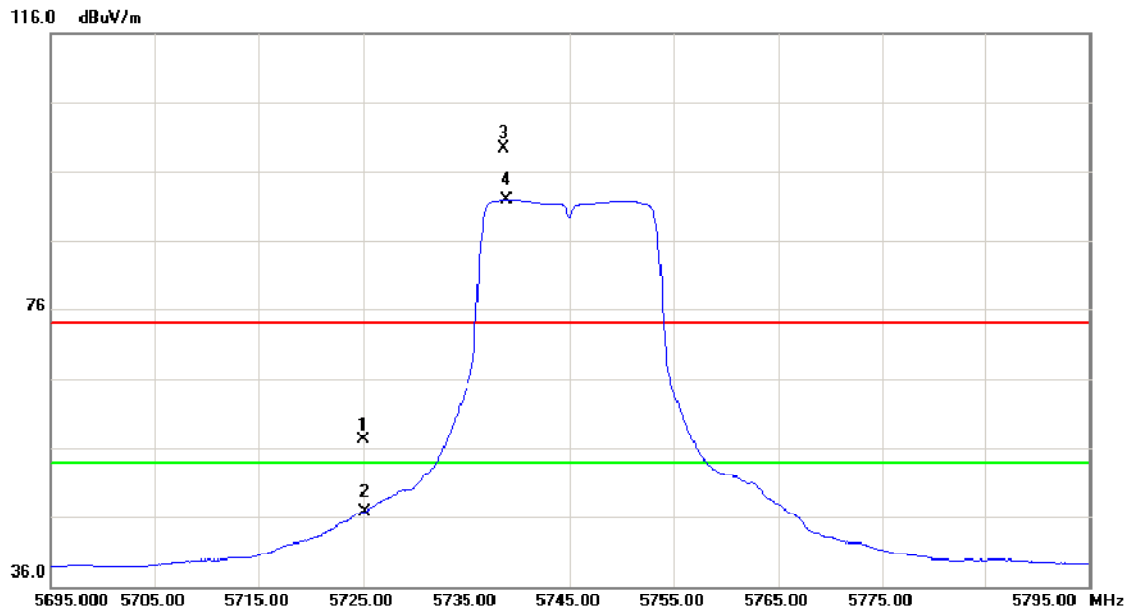
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	11490.10	36.90	16.47	53.37	54.00	-0.63	AVG	
2		11490.20	49.78	16.47	66.25	74.00	-7.75	peak	

Orthogonal Axis :	X
Test Mode :	TX A Mode 5745MHz

### Horizontal

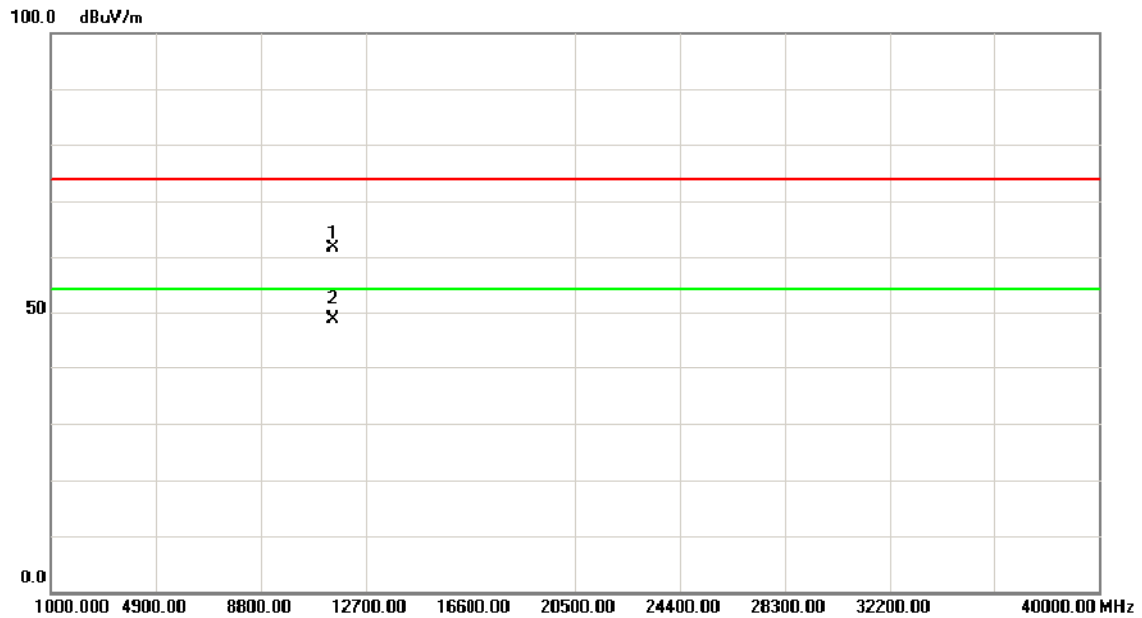


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5725.000	15.91	41.10	57.01	74.00	-16.99	peak	
2		5725.000	5.53	41.10	46.63	54.00	-7.37	AVG	
3	X	5738.600	58.12	41.15	99.27	74.00	25.27	peak	Fundamental frequency, no limit
4	*	5738.900	50.71	41.15	91.86	54.00	37.86	AVG	Fundamental frequency, no limit

Note: The band edge frequency Limit line = fundamental - 20dB

Orthogonal Axis :	X
Test Mode :	TX A Mode 5745MHz

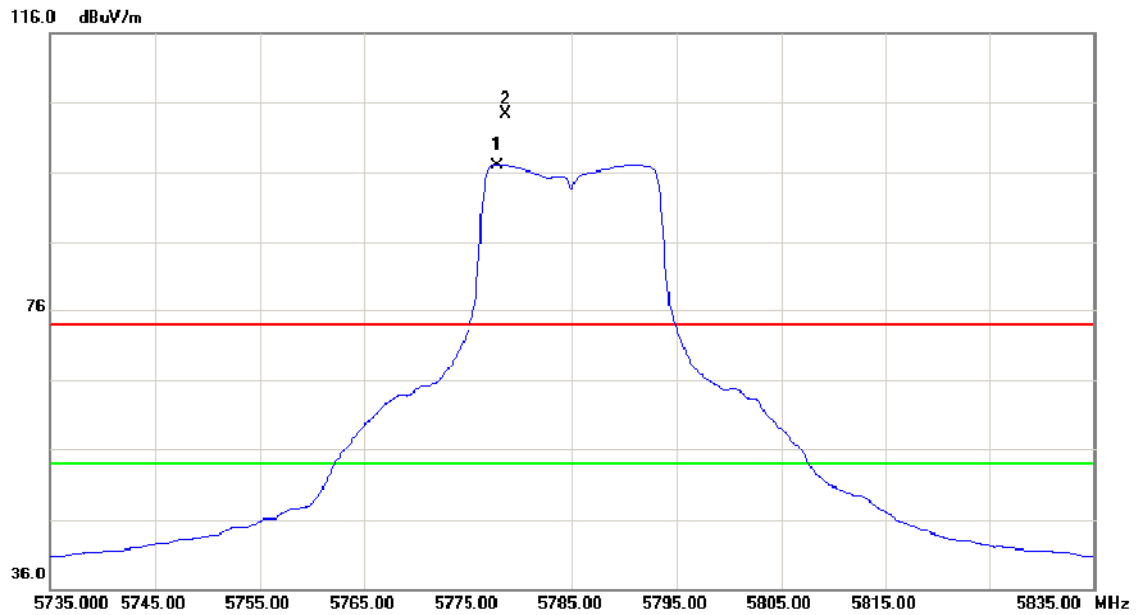
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11490.00	45.25	16.47	61.72	74.00	-12.28	peak	
2	*	11490.00	32.28	16.47	48.75	54.00	-5.25	AVG	

Orthogonal Axis :	X
Test Mode :	TX A Mode 5785MHz

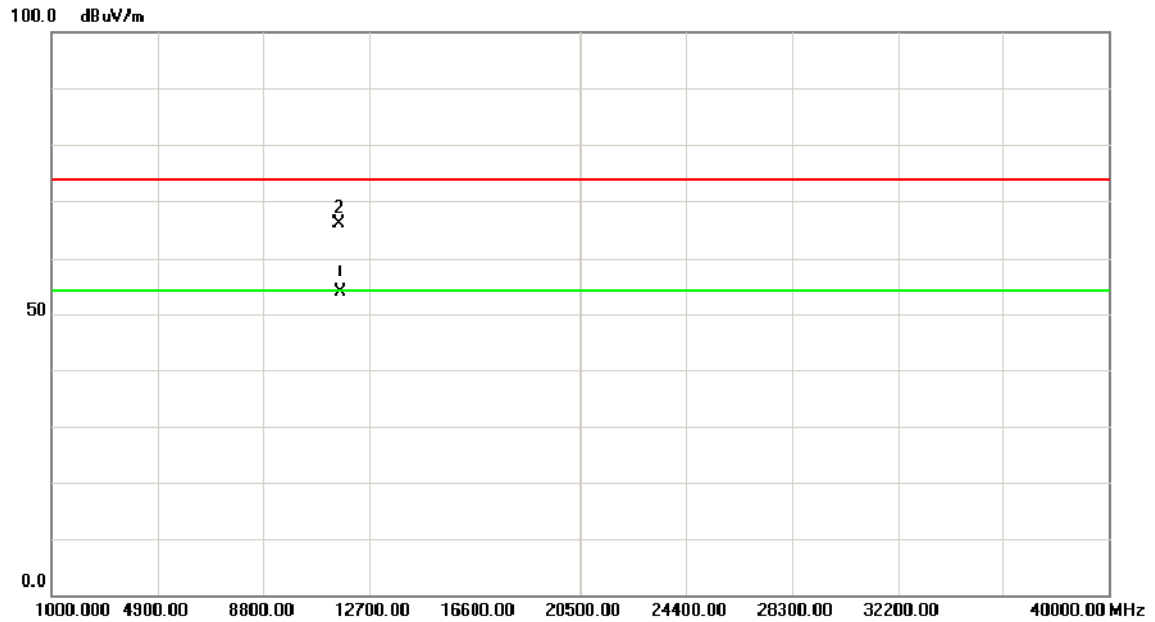
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5777.900	55.64	41.31	96.95	54.00	42.95	AVG	Fundamental frequency, no limit
2	X	5778.600	62.94	41.32	104.26	74.00	30.26	peak	Fundamental frequency, no limit

Orthogonal Axis :	X
Test Mode :	TX A Mode 5785MHz

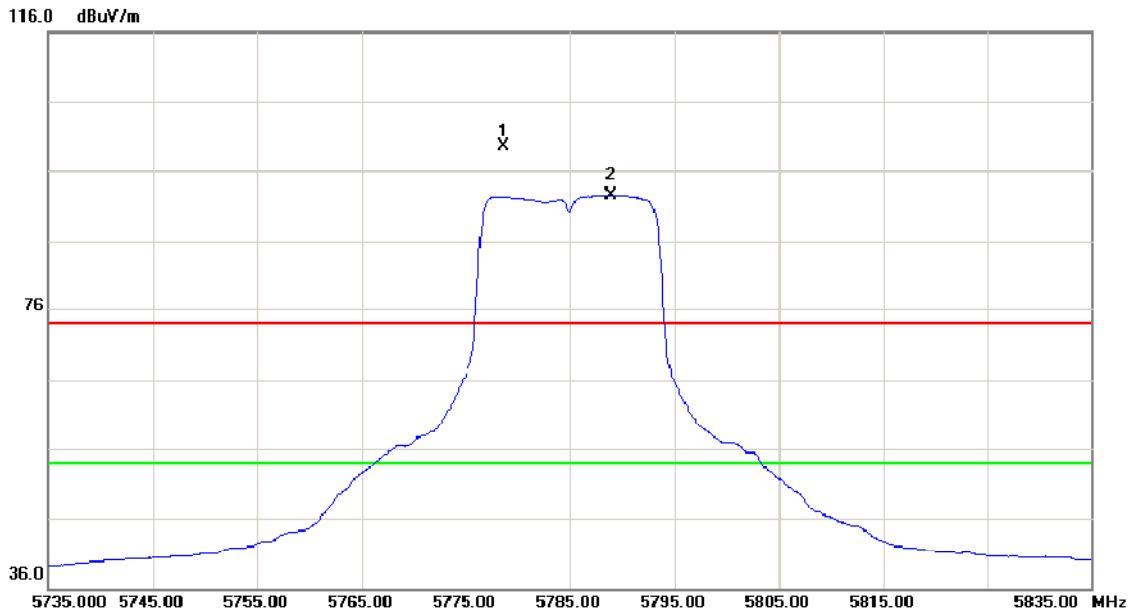
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	11570.00	37.29	16.44	53.73	54.00	-0.27	AVG	
2		11570.50	49.59	16.44	66.03	74.00	-7.97	peak	

Orthogonal Axis :	X
Test Mode :	TX A Mode 5785MHz

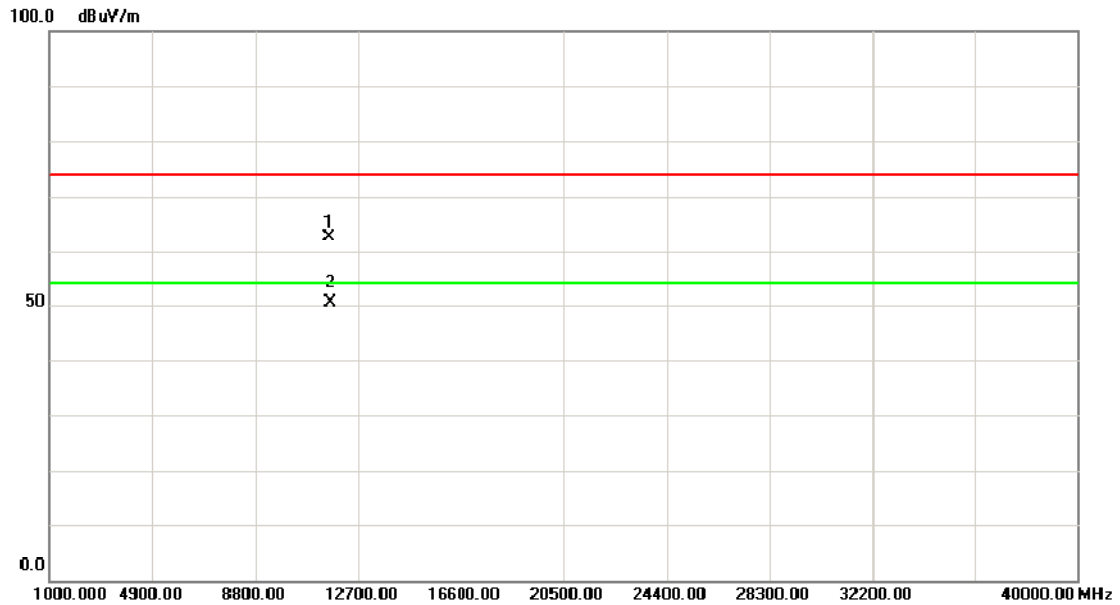
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5778.700	58.15	41.32	99.47	74.00	25.47	peak	Fundamental frequency, no limit
2	*	5788.900	51.21	41.36	92.57	54.00	38.57	AVG	Fundamental frequency, no limit

Orthogonal Axis :	X
Test Mode :	TX A Mode 5785MHz

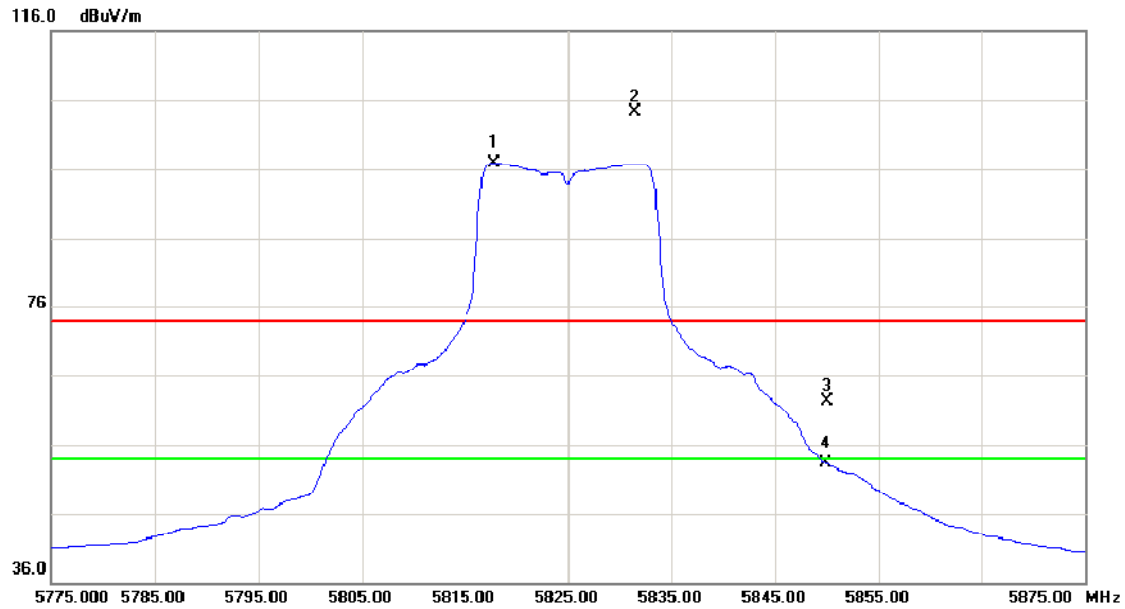
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11570.30	46.12	16.44	62.56	74.00	-11.44	peak	
2	*	11570.30	33.89	16.44	50.33	54.00	-3.67	AVG	

Orthogonal Axis :	X
Test Mode :	TX A Mode 5825MHz

### Vertical

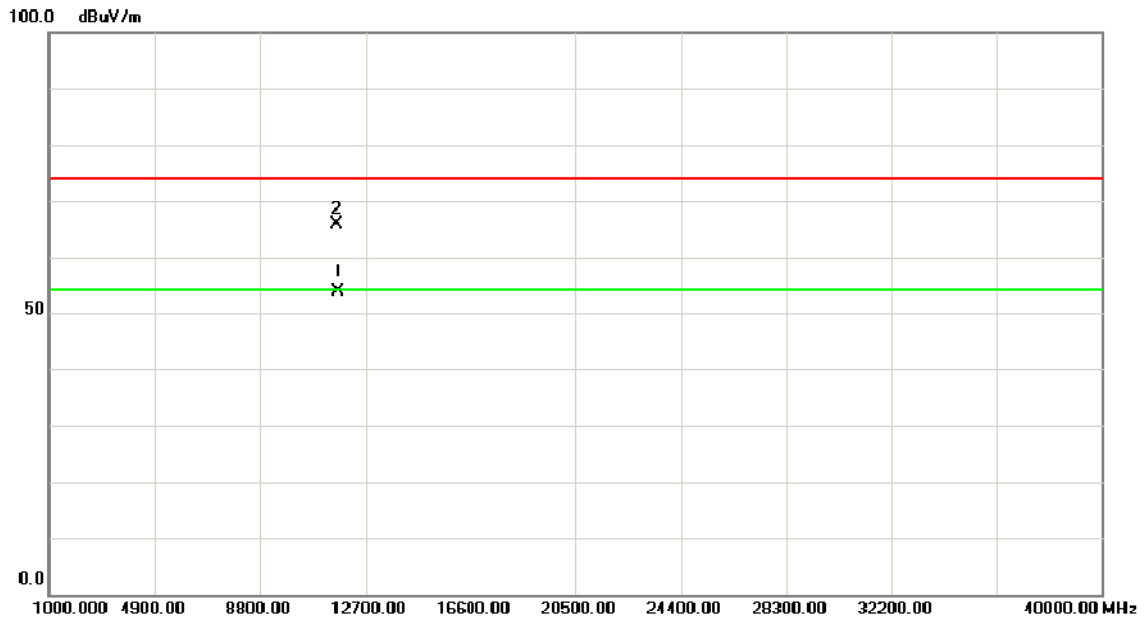


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5817.800	55.42	41.48	96.90	54.00	42.90	AVG	Fundamental frequency, no limit
2	X	5831.400	62.84	41.54	104.38	74.00	30.38	peak	Fundamental frequency, no limit
3		5850.000	20.70	41.62	62.32	74.00	-11.68	peak	
4		5850.000	11.69	41.62	53.31	54.00	-0.69	AVG	

Note: The band edge frequency Limit line= fundamental - 20dB

Orthogonal Axis :	X
Test Mode :	TX A Mode 5825MHz

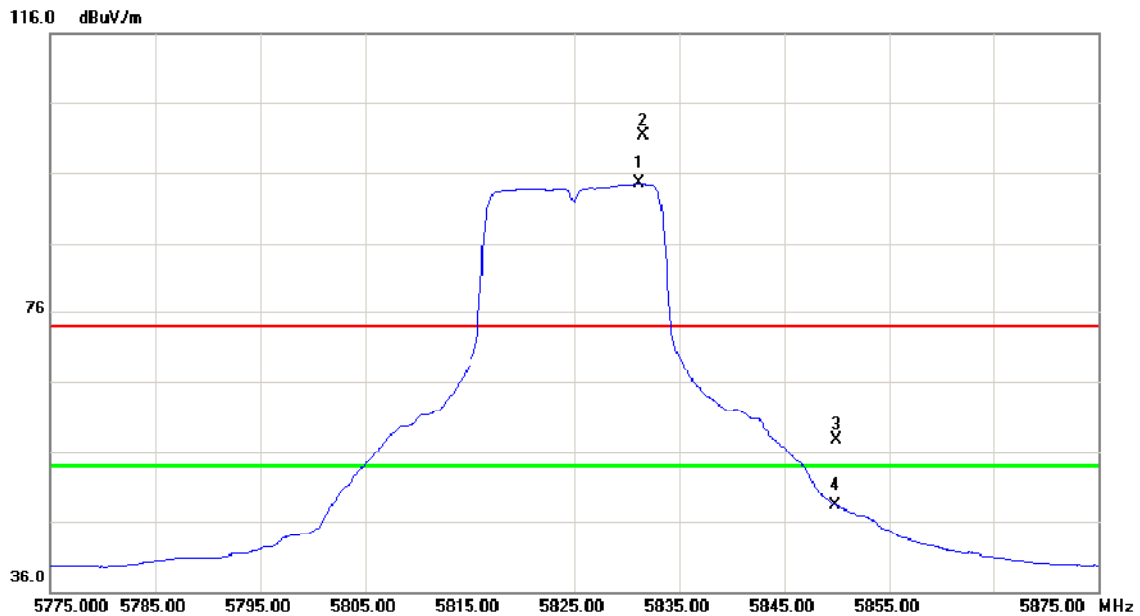
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	11650.10	37.24	16.40	53.64	54.00	-0.36	AVG	
2		11650.70	49.57	16.40	65.97	74.00	-8.03	peak	

Orthogonal Axis :	X
Test Mode :	TX A Mode 5825MHz

### Horizontal

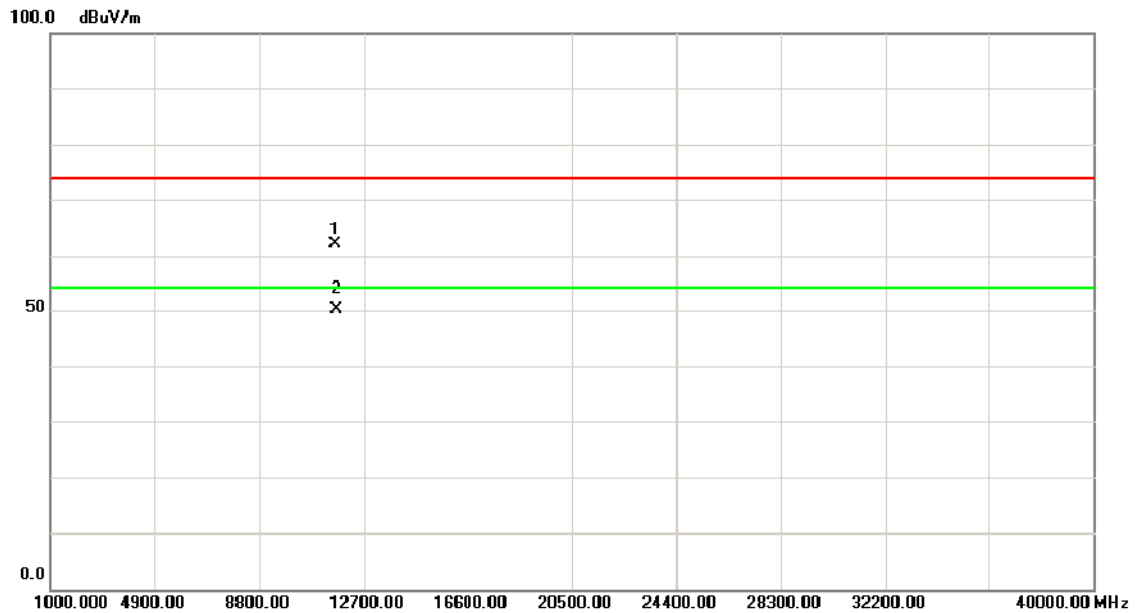


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5831.200	52.99	41.54	94.53	54.00	40.53	AVG	Fundamental frequency, no limit
2	X	5831.600	59.86	41.54	101.40	74.00	27.40	peak	Fundamental frequency, no limit
3		5850.000	16.13	41.62	57.75	74.00	-16.25	peak	
4		5850.000	6.78	41.62	48.40	54.00	-5.60	AVG	

Note: The band edge frequency Limit line= fundamental - 20dB

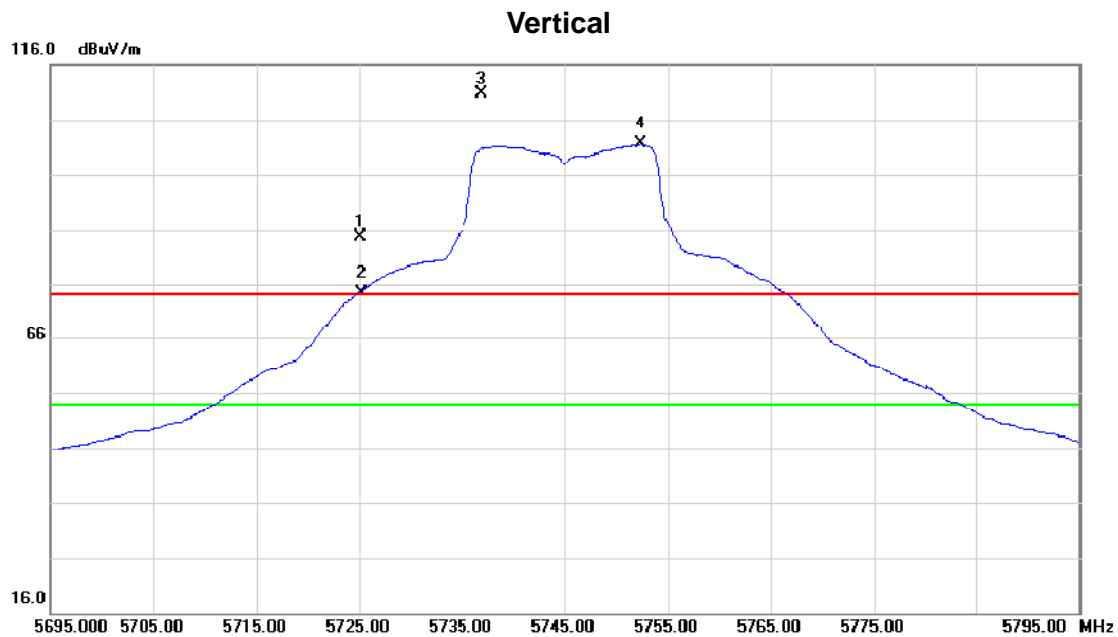
Orthogonal Axis :	X
Test Mode :	TX A Mode 5825MHz

### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11650.20	45.74	16.40	62.14	74.00	-11.86	peak	
2	*	11650.20	33.67	16.40	50.07	54.00	-3.93	AVG	

Orthogonal Axis :	X
Test Mode :	TX N20 Mode 5745MHz

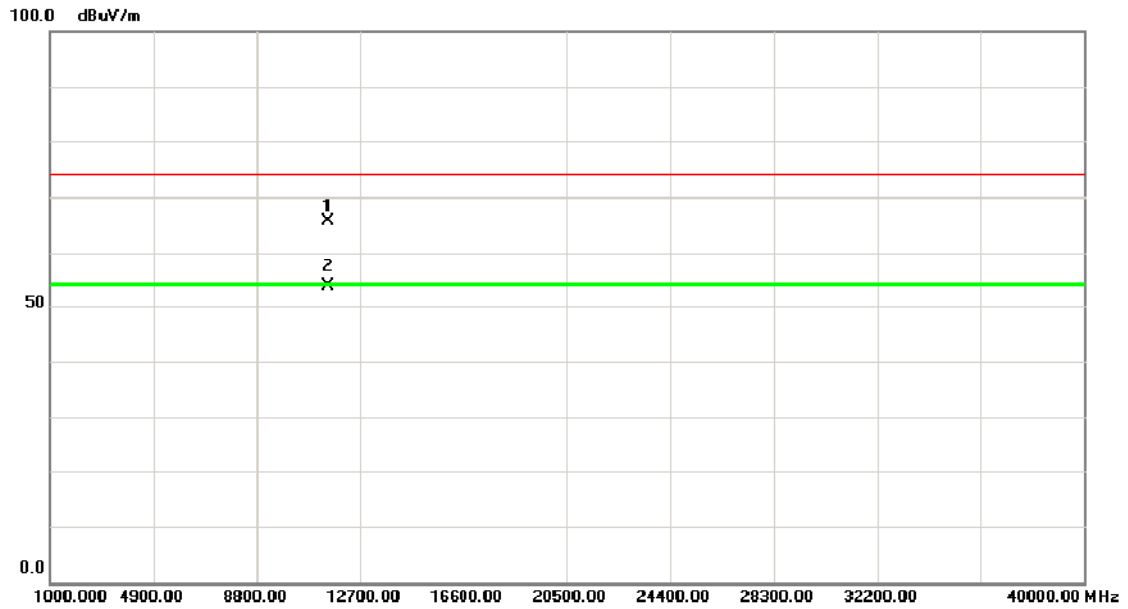


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5725.000	40.05	44.58	84.63	74.00	10.63	peak	
2	X	5725.000	29.89	44.58	74.47	54.00	20.47	AVG	
3	X	5736.900	66.07	44.64	110.71	74.00	36.71	peak	Fundamental frequency, no limit
4	*	5752.400	56.82	44.72	101.54	54.00	47.54	AVG	Fundamental frequency, no limit

Note: The band edge frequency Limit line= fundamental - 20dB

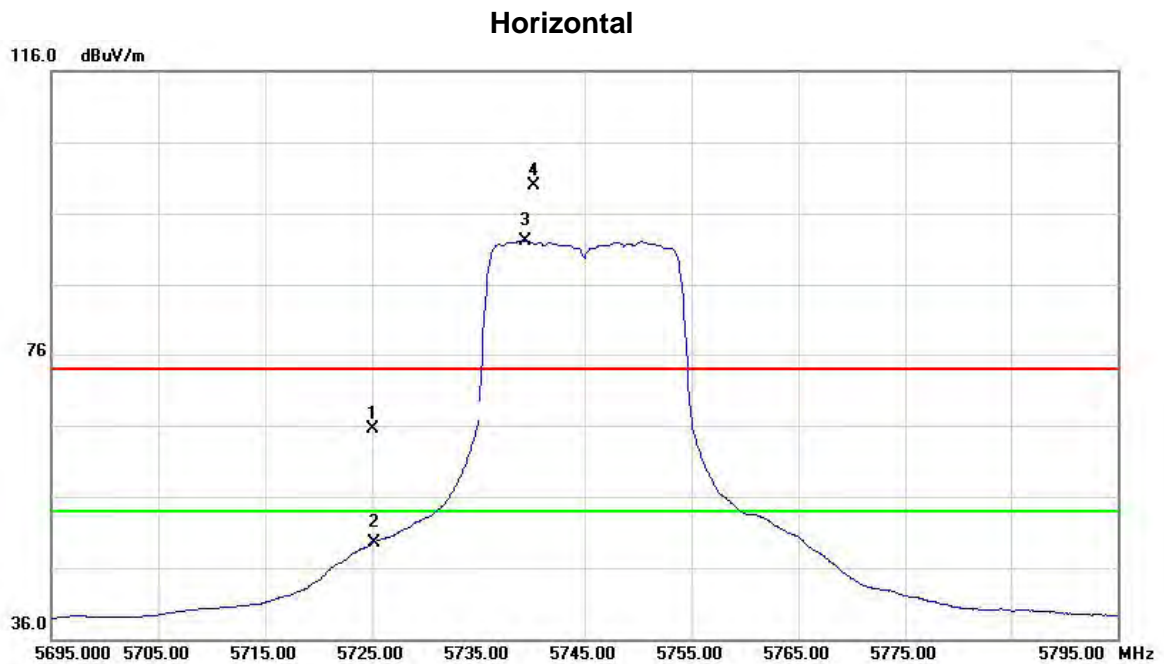
Orthogonal Axis :	X
Test Mode :	TX N20 Mode 5745MHz

### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11484.60	49.23	16.45	65.68	74.00	-8.32	peak	
2	*	11490.70	37.07	16.47	53.54	54.00	-0.46	AVG	

Orthogonal Axis :	X
Test Mode :	TX N20 Mode 5745MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5725.000	24.31	41.10	65.41	74.00	-8.59	peak	
2		5725.000	8.39	41.10	49.49	54.00	-4.51	AVG	
3	*	5739.400	51.04	41.15	92.19	54.00	38.19	AVG	Fundamental frequency, no limit
4	X	5740.200	58.75	41.16	99.91	74.00	25.91	peak	Fundamental frequency, no limit

Note: The band edge frequency Limit line= fundamental - 20dB

Orthogonal Axis :	X
Test Mode :	TX N20 Mode 5745MHz

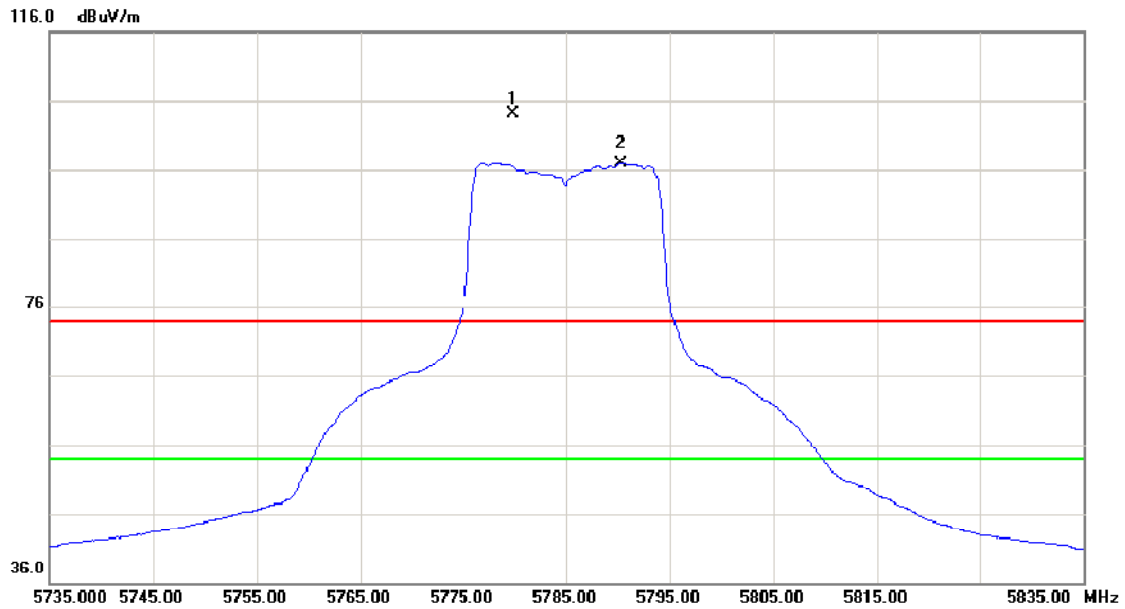
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11489.80	46.25	16.47	62.72	74.00	-11.28	peak	
2	*	11490.10	34.27	16.47	50.74	54.00	-3.26	AVG	

Orthogonal Axis :	X
Test Mode :	TX N20 Mode 5785MHz

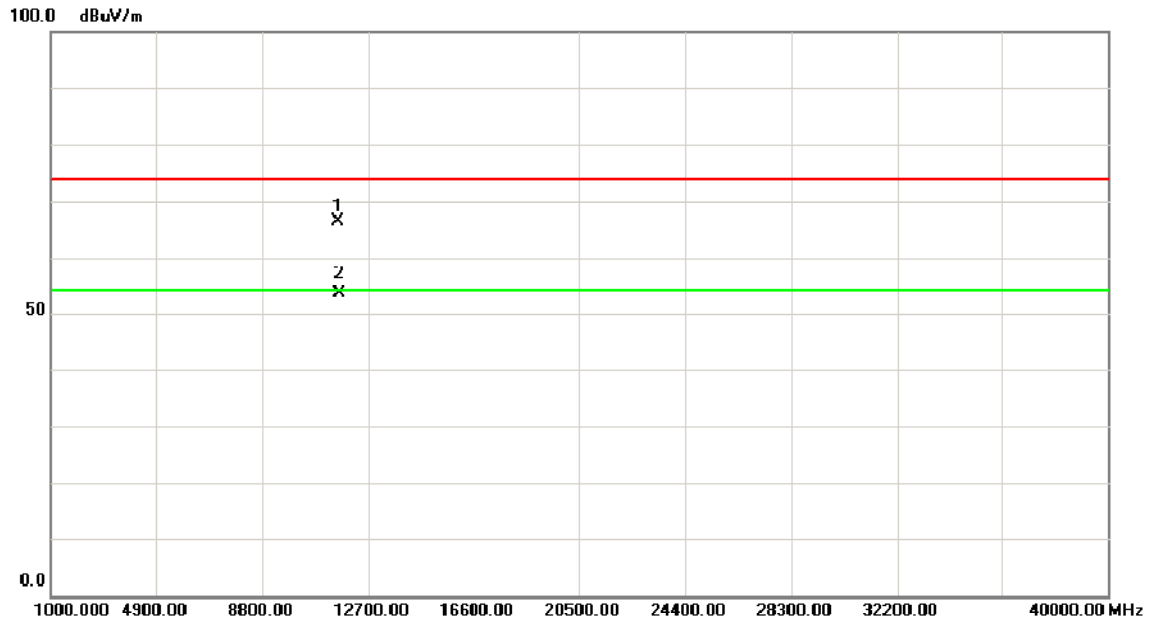
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5779.900	62.79	41.32	104.11	74.00	30.11	peak	Fundamental frequency, no limit
2	*	5790.300	55.51	41.37	96.88	54.00	42.88	AVG	Fundamental frequency, no limit

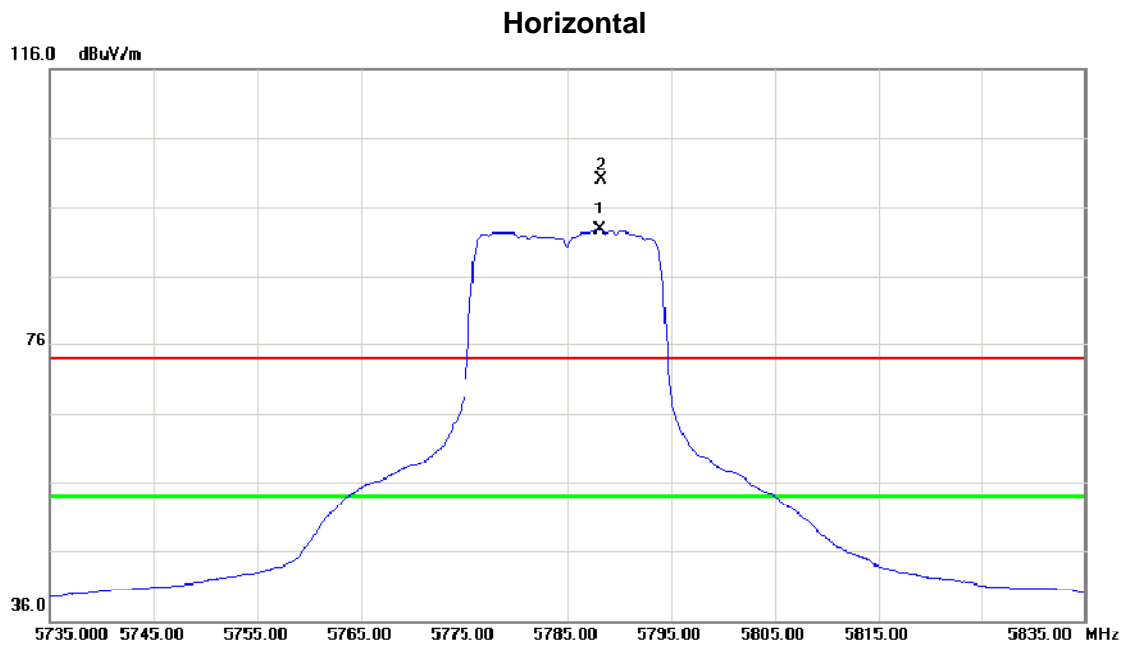
Orthogonal Axis :	X
Test Mode :	TX N20 Mode 5785MHz

### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11564.50	49.97	16.45	66.42	74.00	-7.58	peak	
2	*	11570.80	36.92	16.44	53.36	54.00	-0.64	AVG	

Orthogonal Axis :	X
Test Mode :	TX N20 Mode 5785MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5788.100	51.34	41.36	92.70	54.00	38.70	AVG	Fundamental frequency, no limit
2	X	5788.200	58.46	41.36	99.82	74.00	25.82	peak	Fundamental frequency, no limit

Orthogonal Axis :	X
Test Mode :	TX N20 Mode 5785MHz

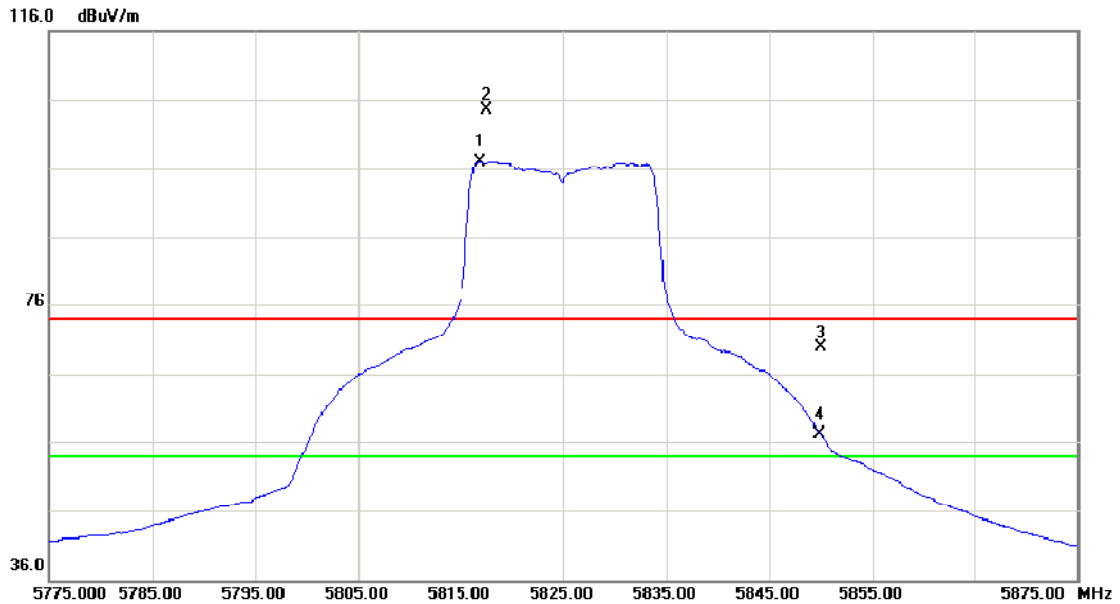
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11570.50	46.58	16.44	63.02	74.00	-10.98	peak	
2	*	11570.50	33.68	16.44	50.12	54.00	-3.88	AVG	

Orthogonal Axis :	X
Test Mode :	TX N20 Mode 5825MHz

### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5816.900	55.48	41.47	96.95	54.00	42.95	AVG	Fundamental frequency, no limit
2	X	5817.600	63.09	41.48	104.57	74.00	30.57	peak	Fundamental frequency, no limit
3		5850.000	28.08	41.62	69.70	74.00	-4.30	peak	
4	X	5850.000	15.44	41.62	57.06	54.00	3.06	AVG	

Note: The band edge frequency Limit line= fundamental - 20dB

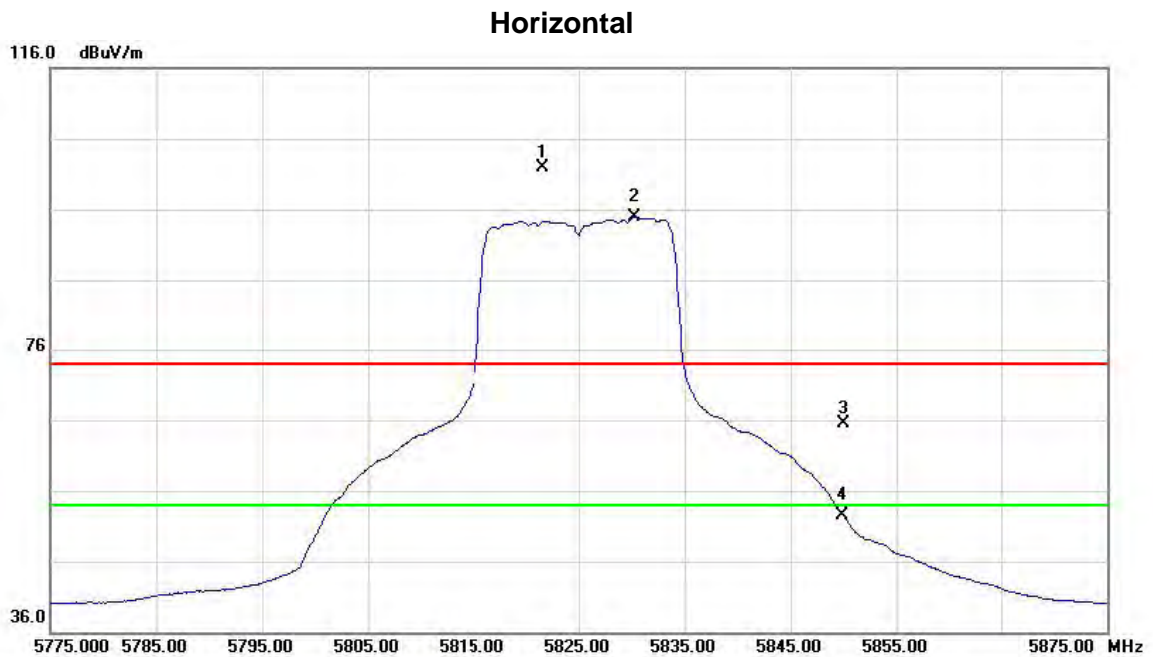
Orthogonal Axis :	X
Test Mode :	TX N20 Mode 5825MHz

### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11648.80	49.88	16.40	66.28	74.00	-7.72	peak	
2	*	11650.60	37.49	16.40	53.89	54.00	-0.11	AVG	

Orthogonal Axis :	X
Test Mode :	TX N20 Mode 5825MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5821.600	60.31	41.50	101.81	74.00	27.81	peak	Fundamental frequency, no limit
2	*	5830.300	53.33	41.53	94.86	54.00	40.86	AVG	Fundamental frequency, no limit
3		5850.000	23.88	41.62	65.50	74.00	-8.50	peak	
4		5850.000	10.82	41.62	52.44	54.00	-1.56	AVG	

Note: The band edge frequency Limit line= fundamental - 20dB

Orthogonal Axis :	X
Test Mode :	TX N20 Mode 5825MHz

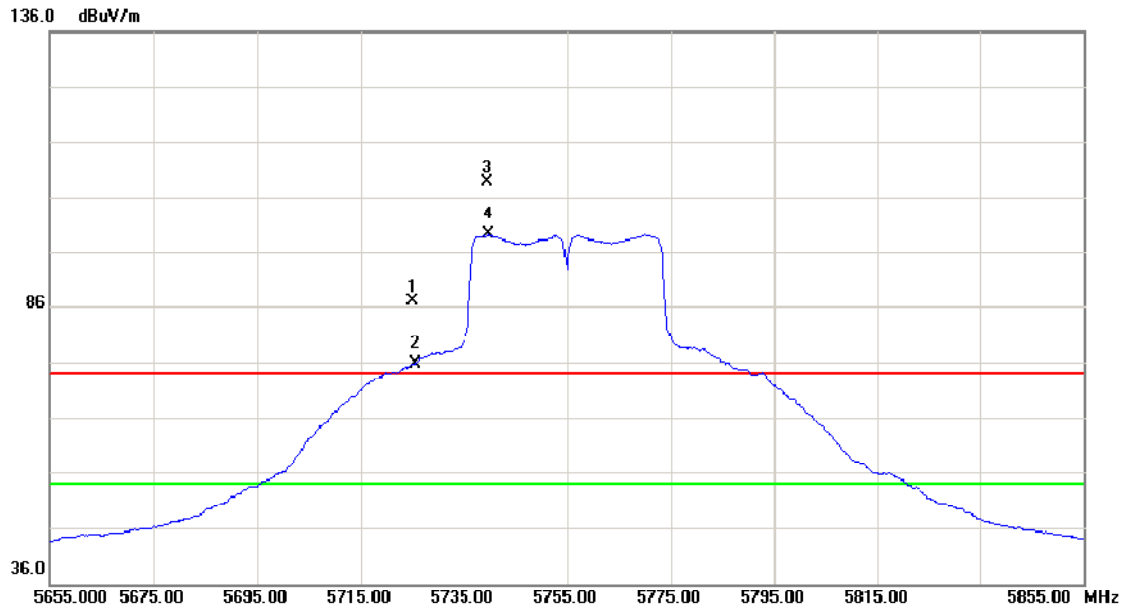
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11650.00	45.68	16.40	62.08	74.00	-11.92	peak	
2	*	11650.00	33.47	16.40	49.87	54.00	-4.13	AVG	

Orthogonal Axis :	X
Test Mode :	TX N40 Mode 5755MHz

### Vertical

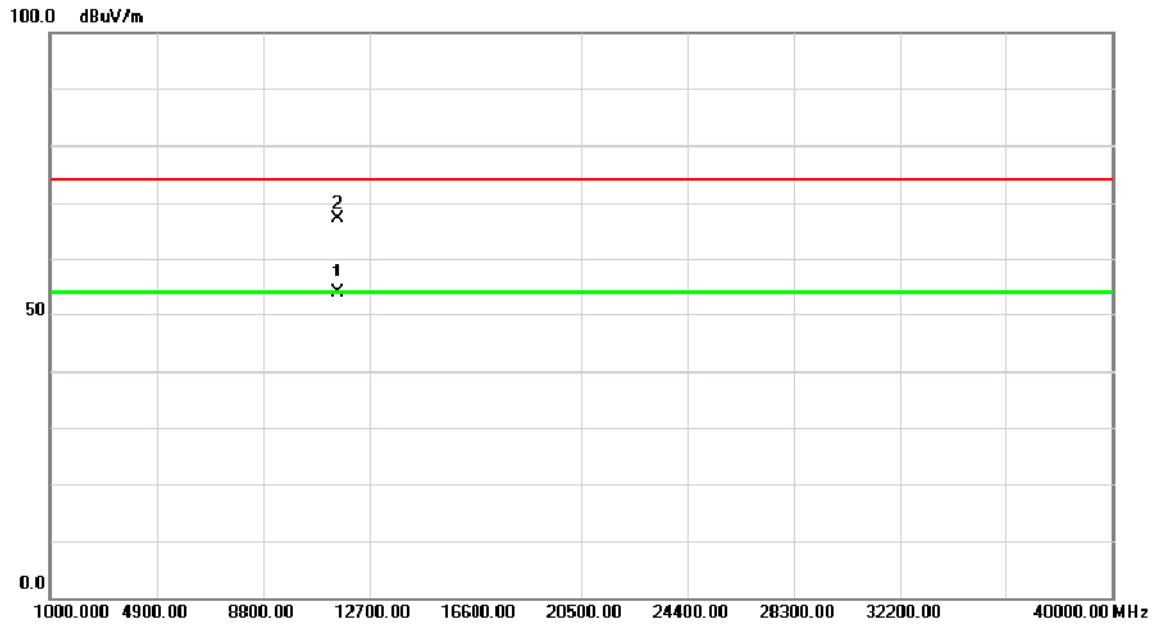


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5725.000	42.24	44.58	86.82	74.00	12.82	peak	
2	X	5725.000	31.04	44.58	75.62	54.00	21.62	AVG	
3	X	5739.600	64.02	44.65	108.67	74.00	34.67	peak	Fundamental frequency, no limit
4	*	5740.000	54.61	44.66	99.27	54.00	45.27	AVG	Fundamental frequency, no limit

Note: The band edge frequency Limit line= fundamental - 20dB

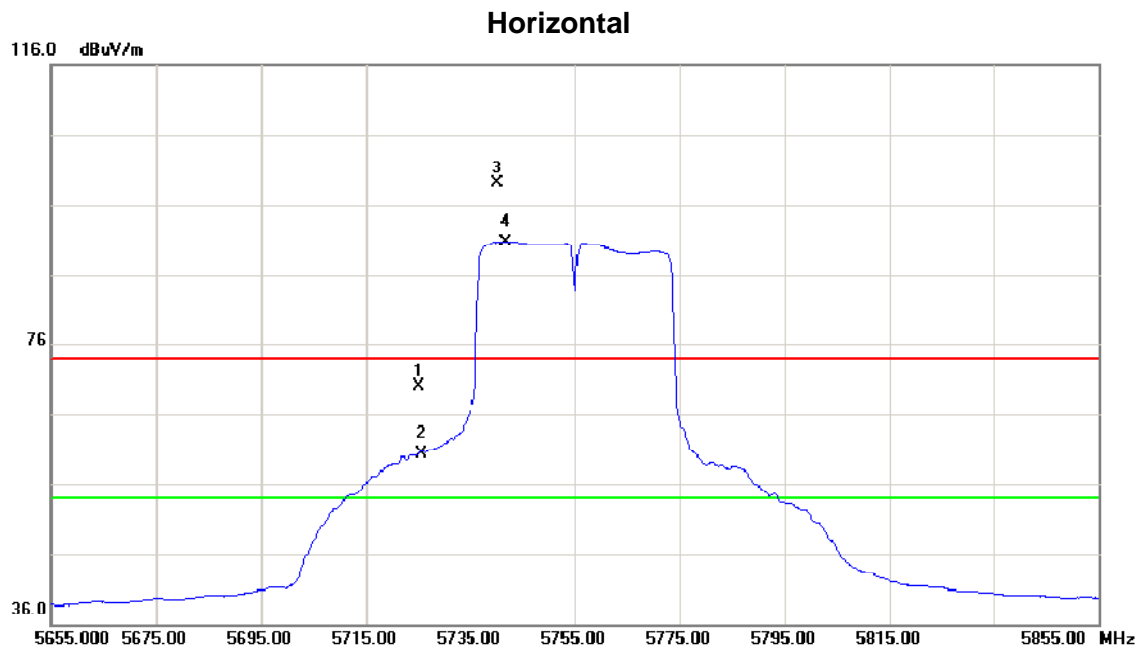
Orthogonal Axis :	X
Test Mode :	TX N40 Mode 5755MHz

### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	11507.00	37.28	16.48	53.76	54.00	-0.24	AVG	
2		11508.80	50.71	16.49	67.20	74.00	-6.80	peak	

Orthogonal Axis :	X
Test Mode :	TX N40 Mode 5755MHz

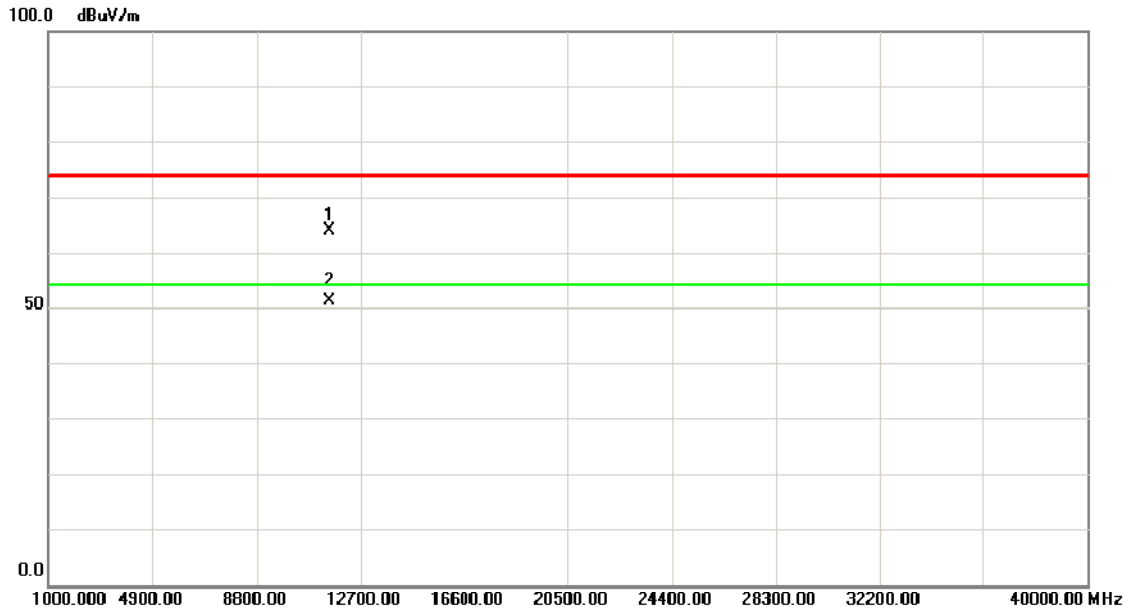


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5725.000	28.81	41.10	69.91	74.00	-4.09	peak	
2	X	5725.000	19.28	41.10	60.38	54.00	6.38	AVG	
3	X	5740.200	57.94	41.16	99.10	74.00	25.10	peak	Fundamental frequency, no limit
4	*	5741.800	49.58	41.16	90.74	54.00	36.74	AVG	Fundamental frequency, no limit

Note: The band edge frequency Limit line= fundamental - 20dB

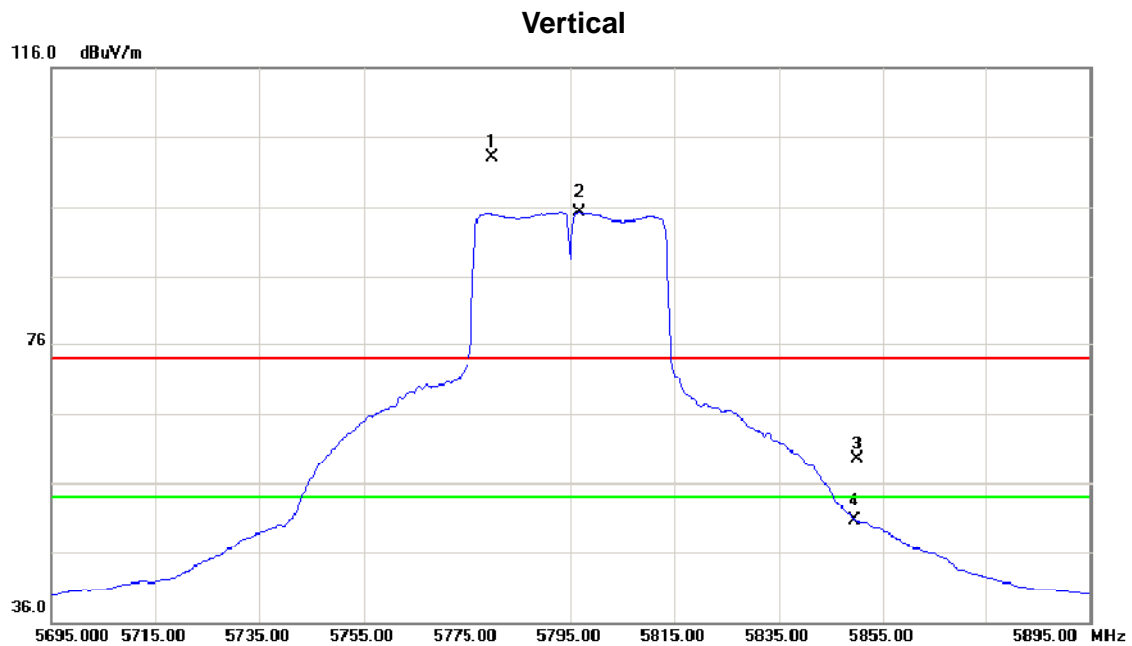
Orthogonal Axis :	X
Test Mode :	TX N40 Mode 5755MHz

### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11510.10	47.68	16.49	64.17	74.00	-9.83	peak	
2	*	11510.10	34.56	16.49	51.05	54.00	-2.95	AVG	

Orthogonal Axis :	X
Test Mode :	TX N40 Mode 5795MHz

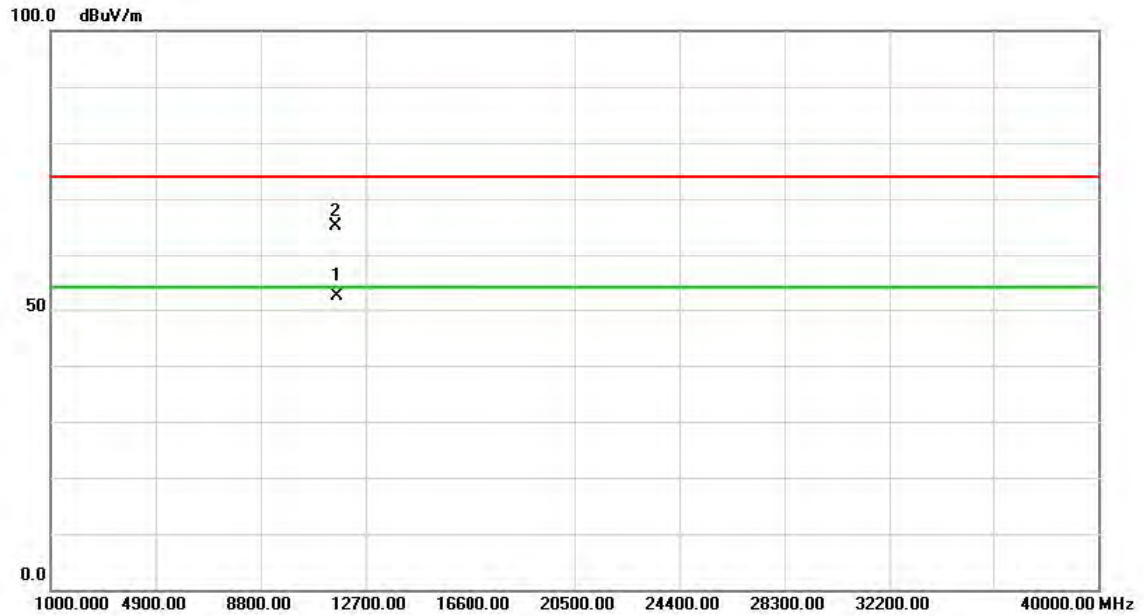


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5780.000	61.70	41.32	103.02	74.00	29.02	peak	Fundamental frequency, no limit
2	*	5796.600	53.64	41.40	95.04	54.00	41.04	AVG	Fundamental frequency, no limit
3		5850.000	17.87	41.62	59.49	74.00	-14.51	peak	
4		5850.000	8.88	41.62	50.50	54.00	-3.50	AVG	

Note: The band edge frequency Limit line= fundamental - 20dB

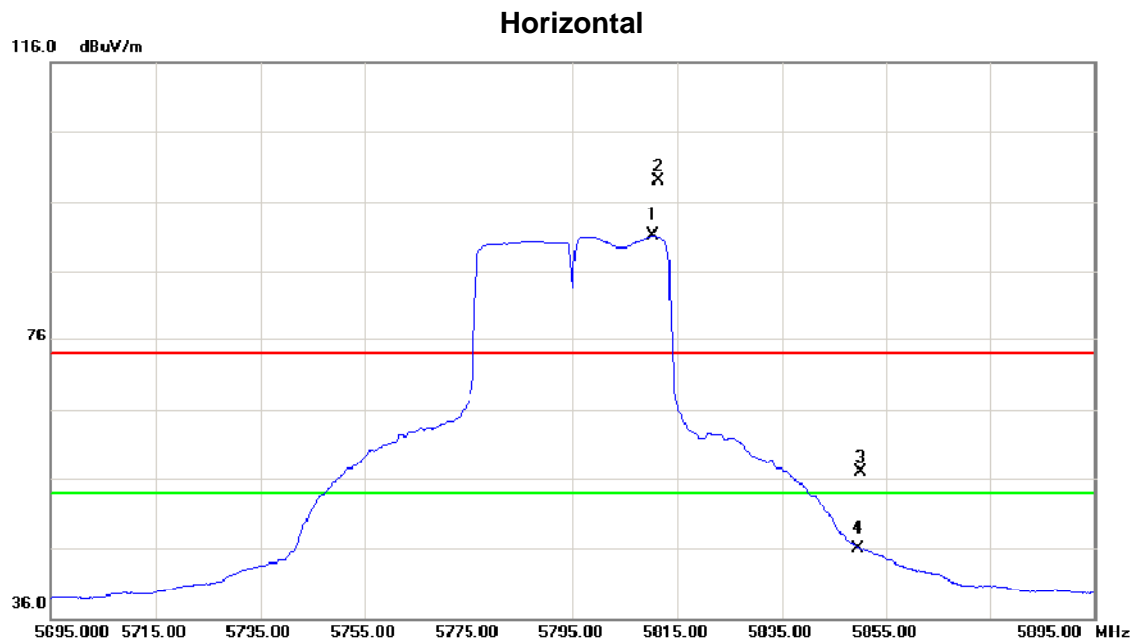
Orthogonal Axis :	X
Test Mode :	TX N40 Mode 5795MHz

### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	11586.20	36.05	16.44	52.49	54.00	-1.51	AVG	
2		11586.40	48.69	16.44	65.13	74.00	-8.87	peak	

Orthogonal Axis :	X
Test Mode :	TX N40 Mode 5795MHz

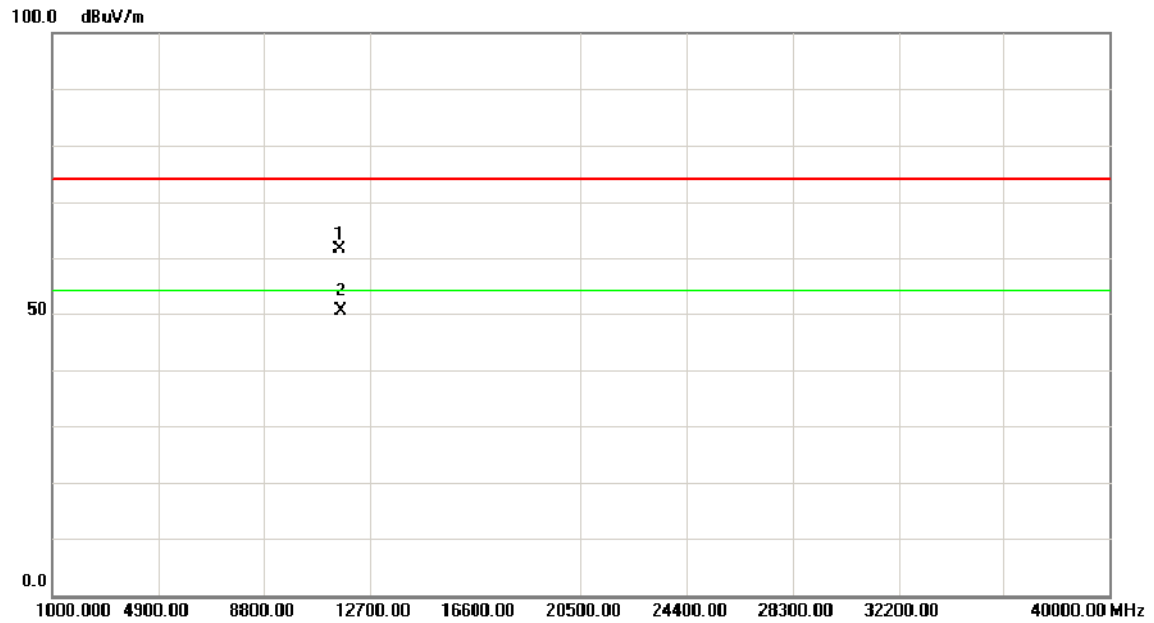


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5810.400	49.60	41.46	91.06	54.00	37.06	AVG	Fundamental frequency, no limit
2	X	5811.400	57.35	41.46	98.81	74.00	24.81	peak	Fundamental frequency, no limit
3		5850.000	15.29	41.62	56.91	74.00	-17.09	peak	
4		5850.000	4.20	41.62	45.82	54.00	-8.18	AVG	

Note: The band edge frequency Limit line= fundamental - 20dB

Orthogonal Axis :	X
Test Mode :	TX N40 Mode 5795MHz

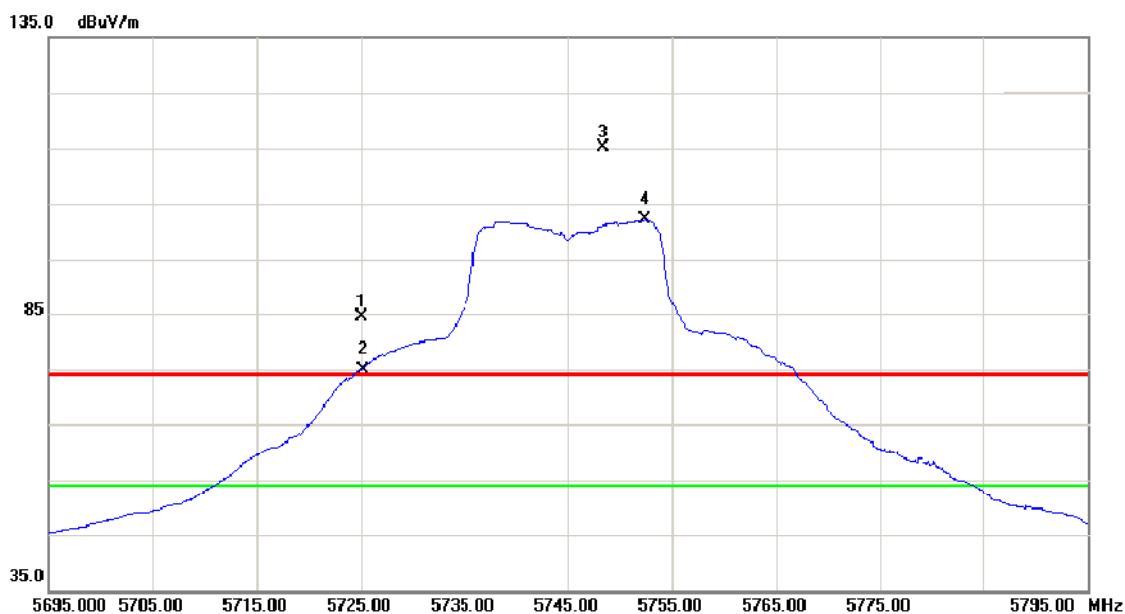
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11589.70	45.24	16.43	61.67	74.00	-12.33	peak	
2	*	11589.70	33.97	16.43	50.40	54.00	-3.60	AVG	

Orthogonal Axis :	X
Test Mode :	TX AC N20 Mode 5745MHz

### Vertical

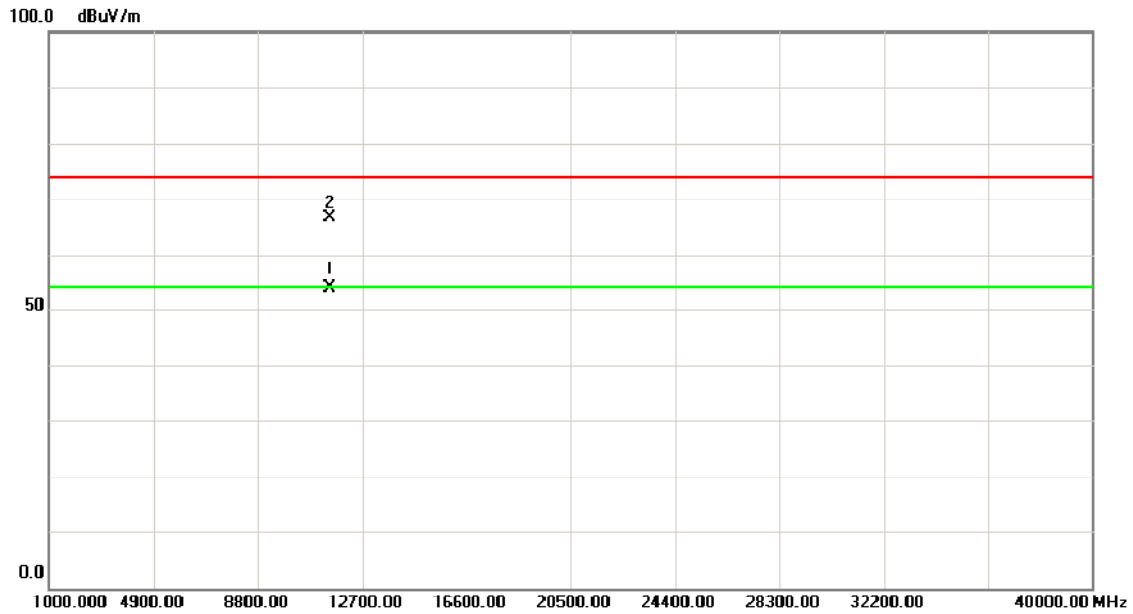


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5725.000	39.68	44.58	84.26	74.00	10.26	peak	
2	X	5725.000	30.39	44.58	74.97	54.00	20.97	AVG	
3	X	5748.400	70.36	44.70	115.06	74.00	41.06	peak	Fundamental frequency, no limit
4	*	5752.400	57.32	44.72	102.04	54.00	48.04	AVG	Fundamental frequency, no limit

Note: The band edge frequency Limit line= fundamental - 20dB

Orthogonal Axis :	X
Test Mode :	TX AC N20 Mode 5745MHz

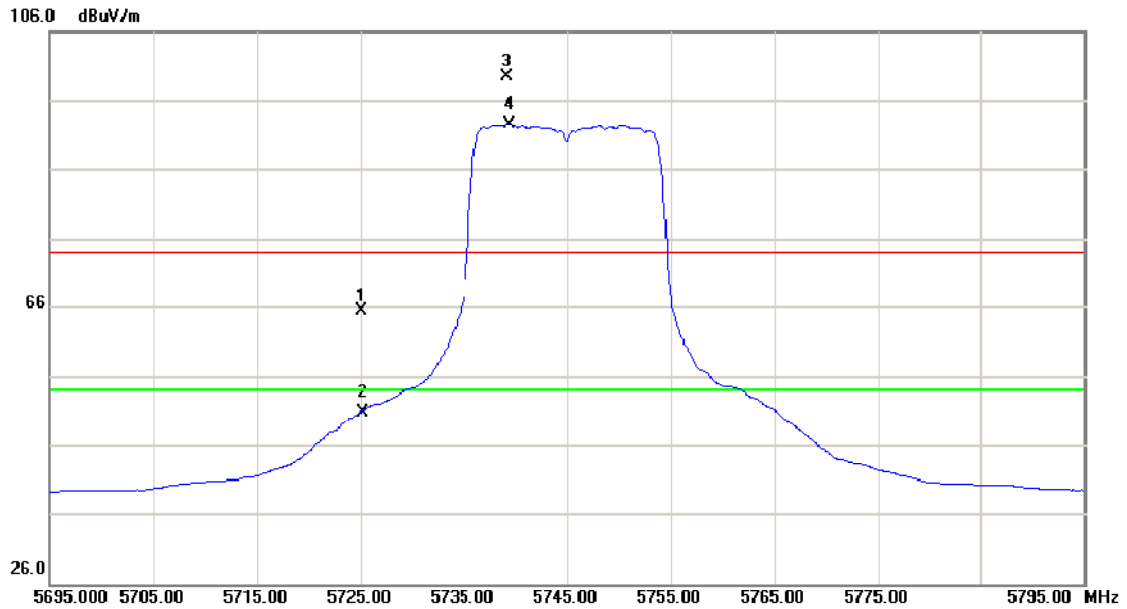
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	11490.70	37.06	16.47	53.53	54.00	-0.47	AVG	
2		11490.80	50.26	16.47	66.73	74.00	-7.27	peak	

Orthogonal Axis :	X
Test Mode :	TX AC N20 Mode 5745MHz

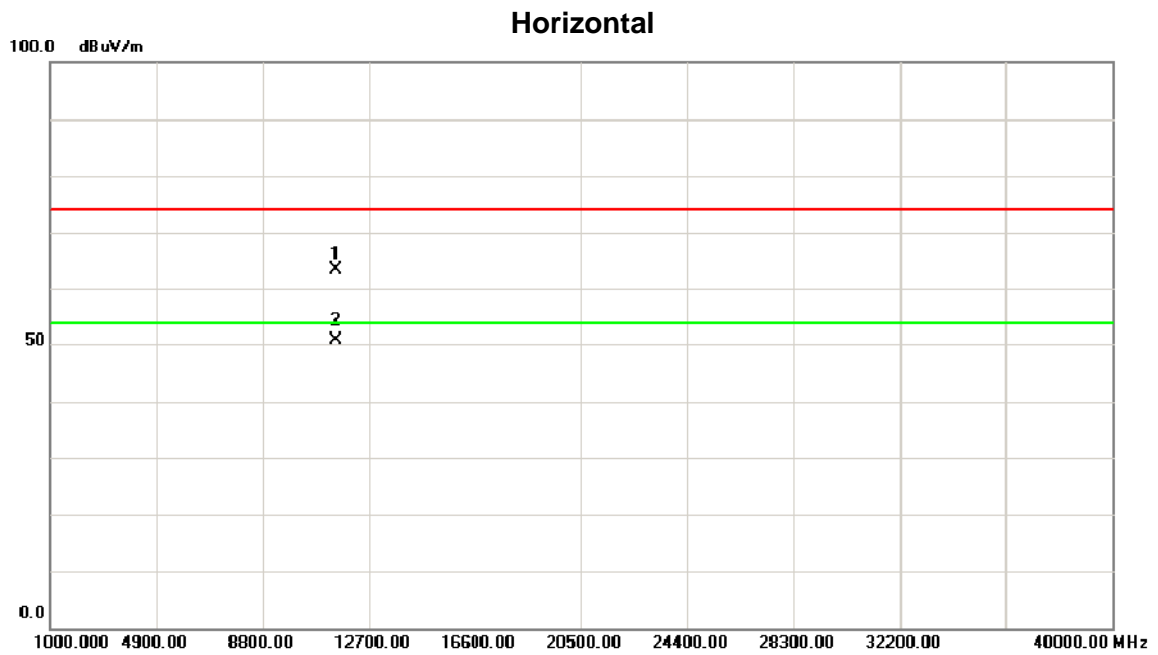
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5725.000	24.12	41.10	65.22	74.00	-8.78	peak	
2		5725.000	9.69	41.10	50.79	54.00	-3.21	AVG	
3	X	5739.200	58.33	41.15	99.48	74.00	25.48	peak	Fundamental frequency, no limit
4	*	5739.500	51.34	41.15	92.49	54.00	38.49	AVG	Fundamental frequency, no limit

Note: The band edge frequency Limit line= fundamental - 20dB

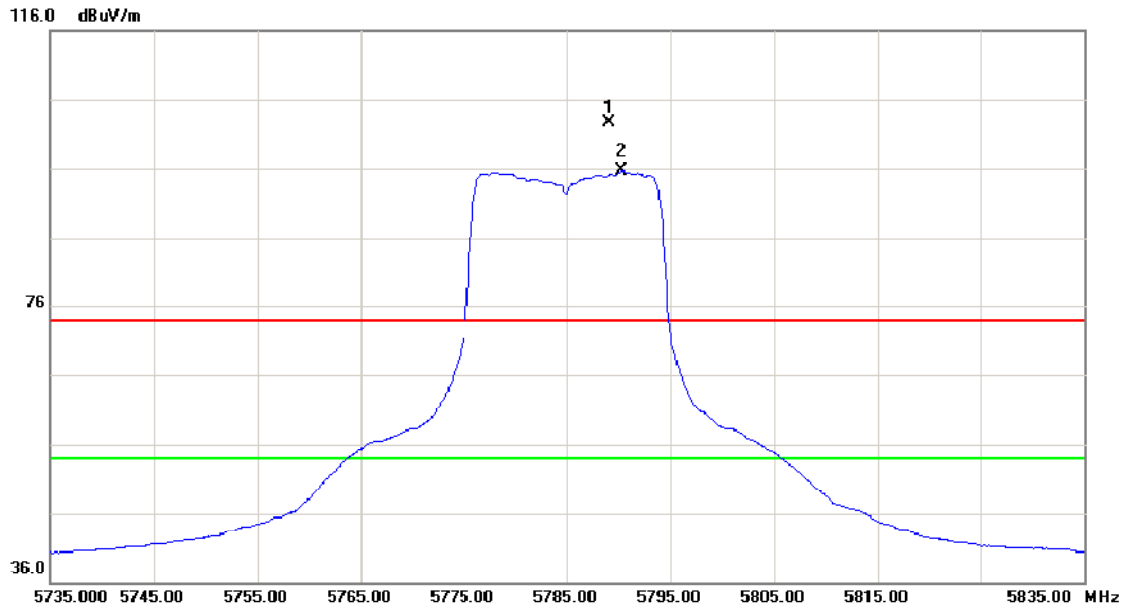
Orthogonal Axis :	X
Test Mode :	TX AC N20 Mode 5745MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11490.20	46.79	16.47	63.26	74.00	-10.74	peak	
2	*	11490.20	34.28	16.47	50.75	54.00	-3.25	AVG	

Orthogonal Axis :	X
Test Mode :	TX N20 AC Mode 5785MHz

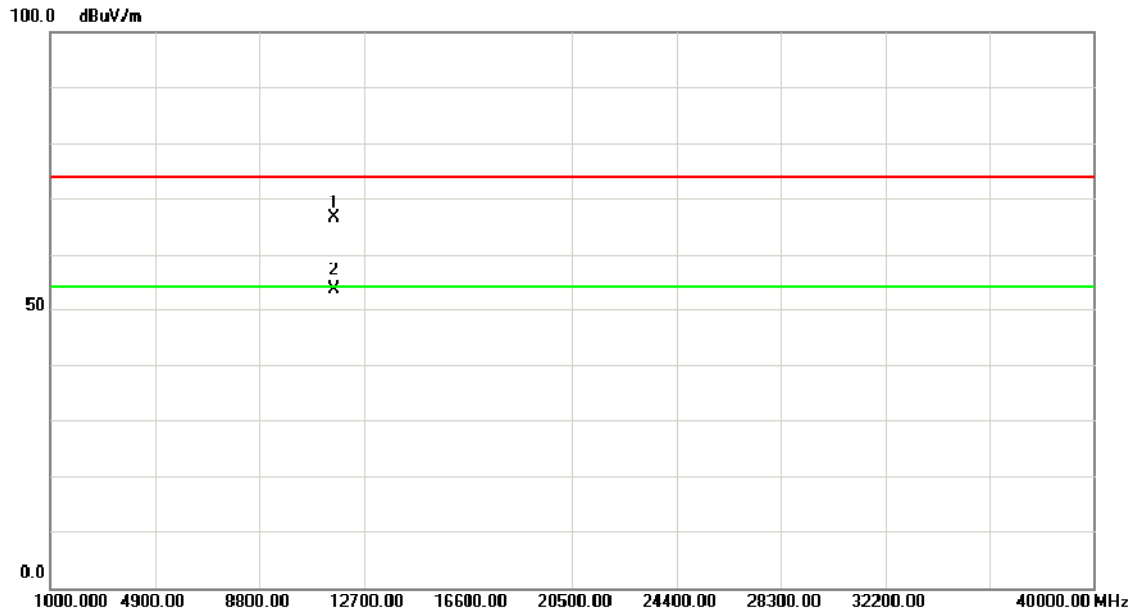
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5789.100	61.37	41.36	102.73	74.00	28.73	peak	Fundamental frequency, no limit
2	*	5790.300	54.26	41.37	95.63	54.00	41.63	AVG	Fundamental frequency, no limit

Orthogonal Axis :	X
Test Mode :	TX AC N20 Mode 5785MHz

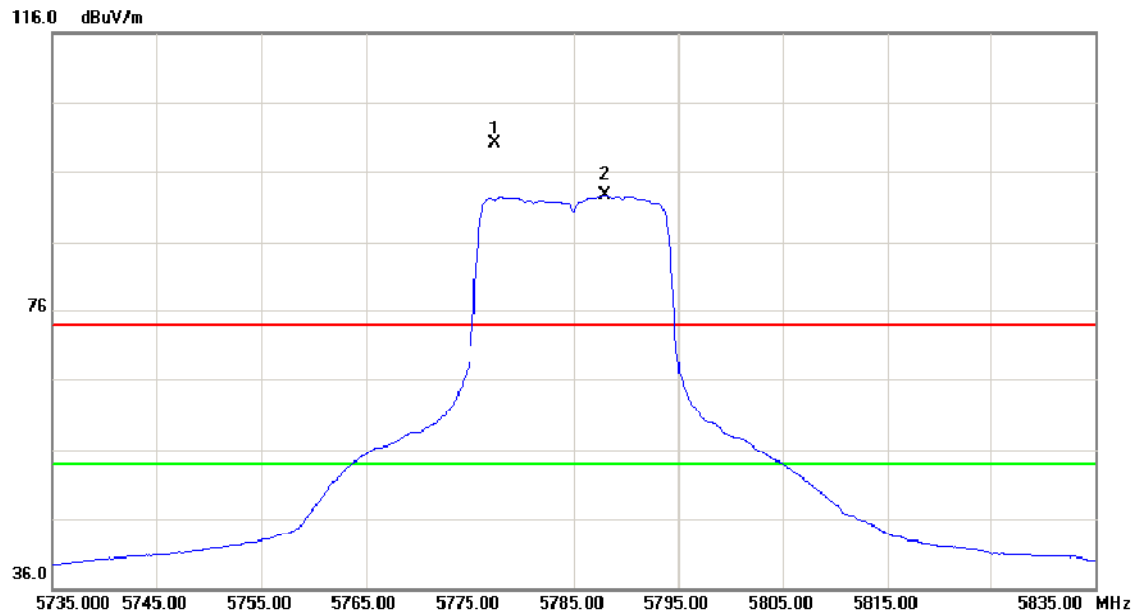
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11565.10	50.18	16.45	66.63	74.00	-7.37	peak	
2	*	11568.80	37.02	16.44	53.46	54.00	-0.54	AVG	

Orthogonal Axis :	X
Test Mode :	TX AC N20 Mode 5785MHz

### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5777.500	58.86	41.31	100.17	74.00	26.17	peak	Fundamental frequency, no limit
2	*	5788.000	51.34	41.36	92.70	54.00	38.70	AVG	Fundamental frequency, no limit

Orthogonal Axis :	X
Test Mode :	TX AC N20 Mode 5785MHz

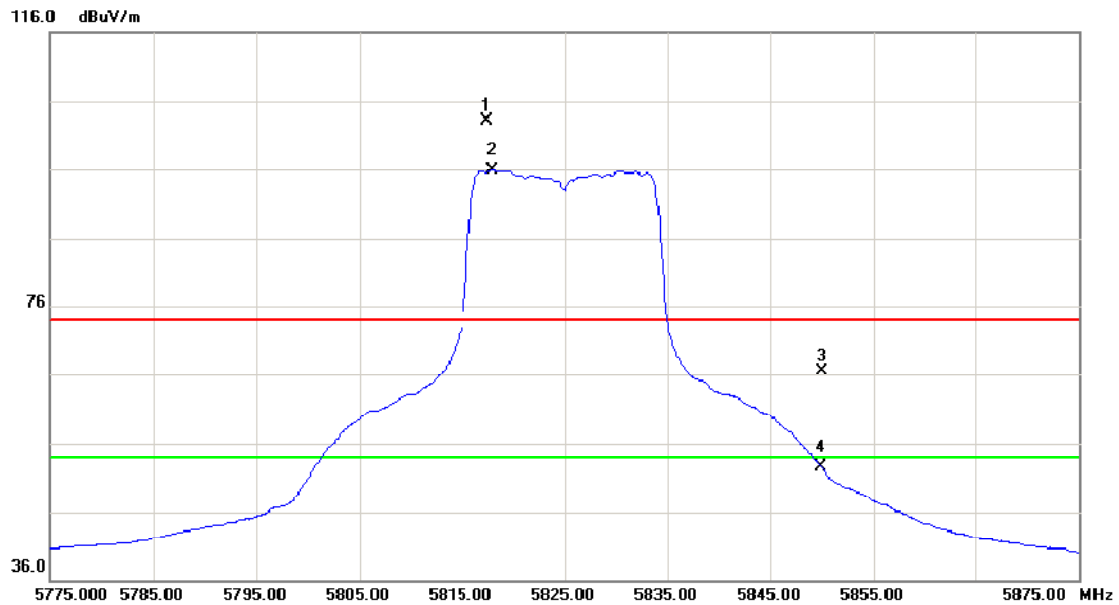
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11570.10	45.82	16.44	62.26	74.00	-11.74	peak	
2	*	11570.10	34.71	16.44	51.15	54.00	-2.85	AVG	

Orthogonal Axis :	X
Test Mode :	TX AC N20 Mode 5825MHz

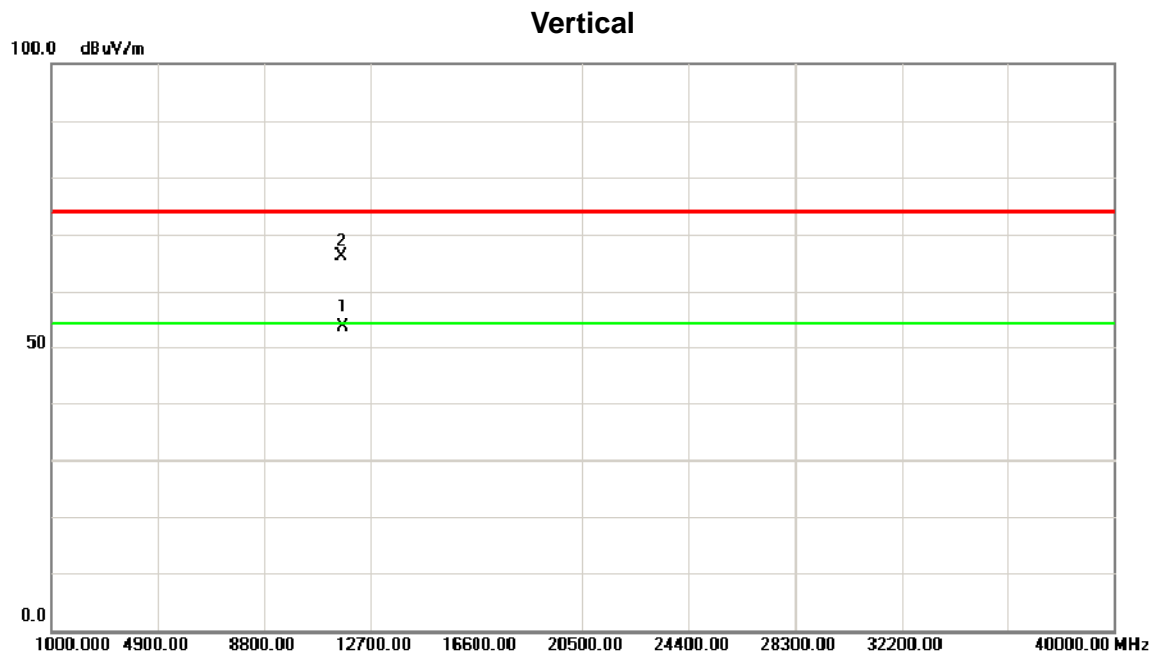
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5817.500	61.71	41.48	103.19	74.00	29.19	peak	Fundamental frequency, no limit
2	*	5818.000	54.38	41.48	95.86	54.00	41.86	AVG	Fundamental frequency, no limit
3		5850.000	24.94	41.62	66.56	74.00	-7.44	peak	
4		5850.000	10.84	41.62	52.46	54.00	-1.54	AVG	

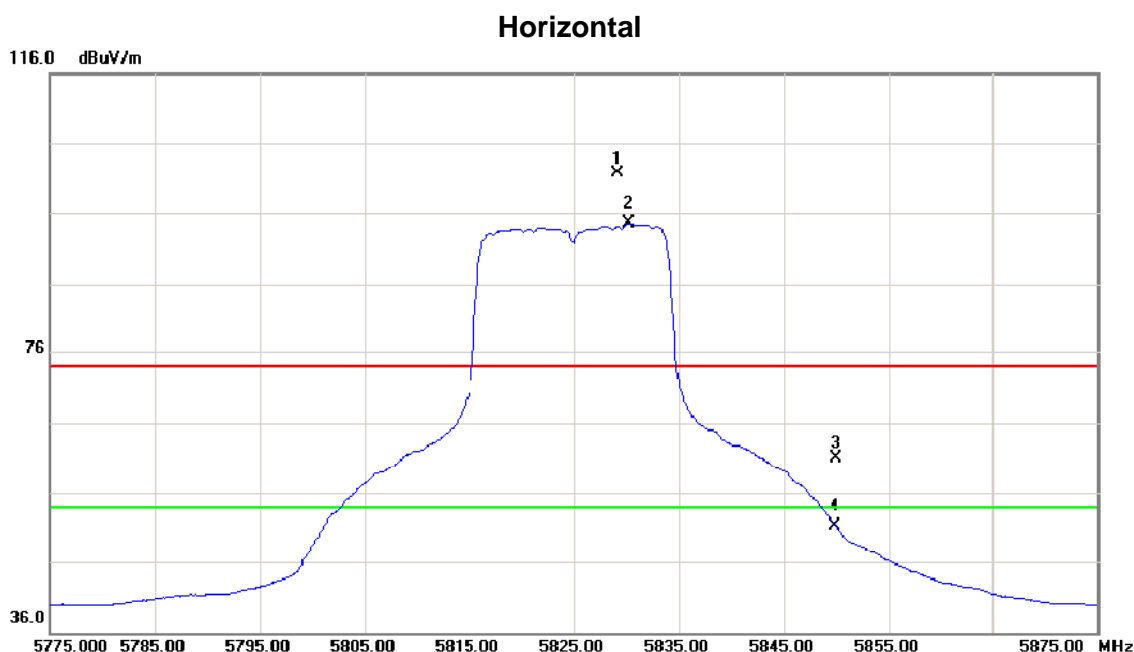
Note: The band edge frequency Limit line= fundamental - 20dB

Orthogonal Axis :	X
Test Mode :	TX AC N20 Mode 5825MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	11649.00	36.99	16.40	53.39	54.00	-0.61	AVG	
2		11650.80	49.77	16.40	66.17	74.00	-7.83	peak	

Orthogonal Axis :	X
Test Mode :	TX AC N20 Mode 5825MHz

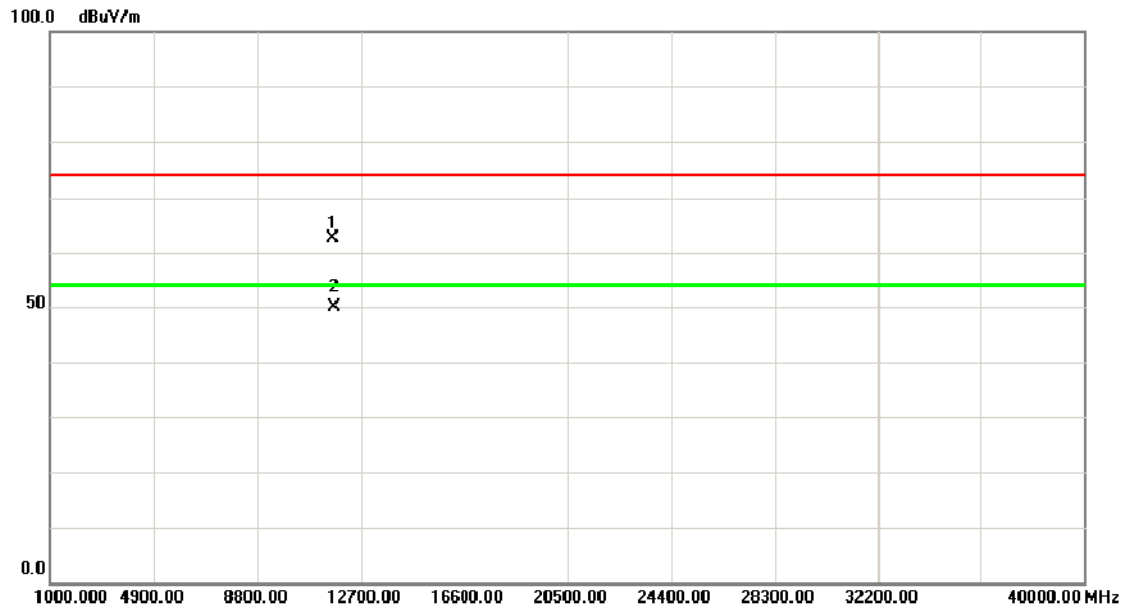


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5829.200	60.16	41.53	101.69	74.00	27.69	peak	Fundamental frequency, no limit
2	*	5830.300	52.96	41.53	94.49	54.00	40.49	AVG	Fundamental frequency, no limit
3		5850.000	19.36	41.62	60.98	74.00	-13.02	peak	
4		5850.000	9.54	41.62	51.16	54.00	-2.84	AVG	

Note: The band edge frequency Limit line= fundamental - 20dB

Orthogonal Axis :	X
Test Mode :	TX AC N20 Mode 5825MHz

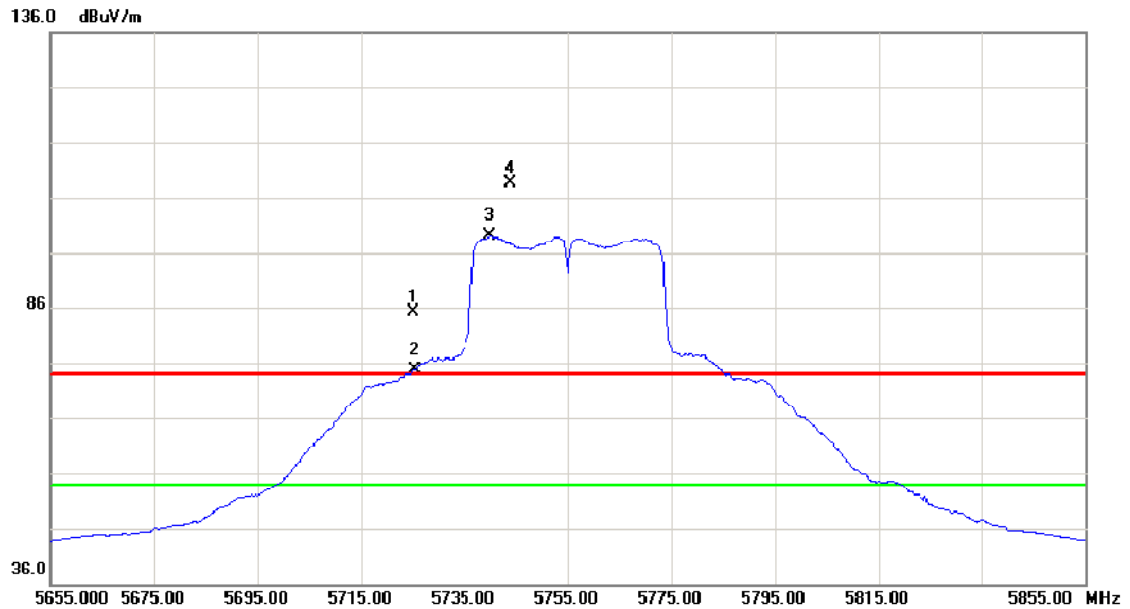
### Horizontal



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	11650.00	46.24	16.40	62.64	74.00	-11.36	peak	
2 *	11650.00	33.58	16.40	49.98	54.00	-4.02	AVG	

Orthogonal Axis :	X
Test Mode :	TX AC N40 Mode 5755MHz

### Vertical

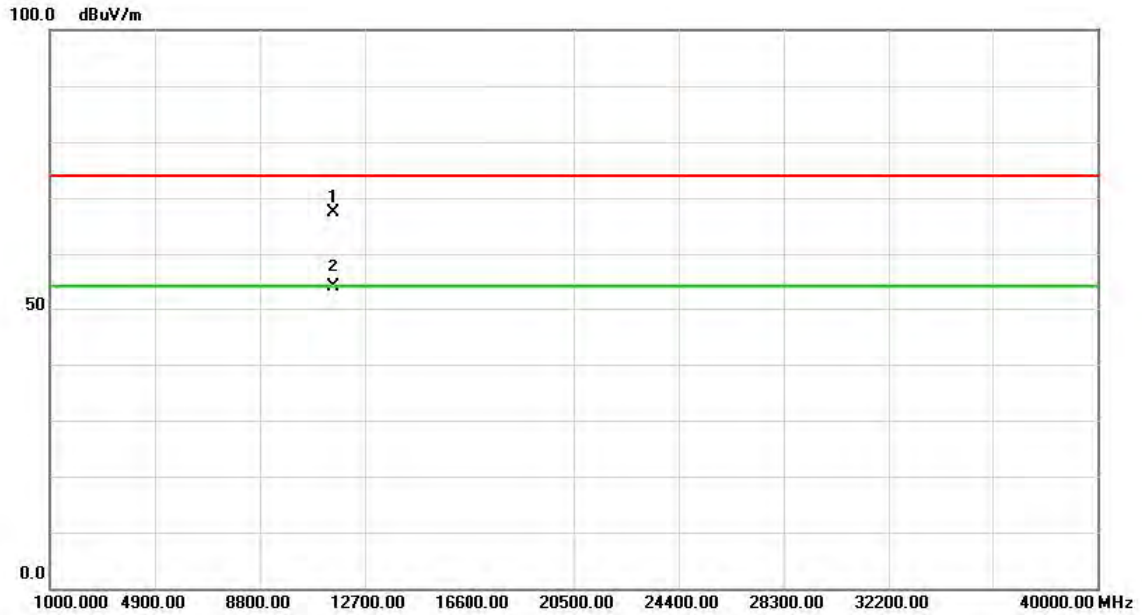


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5725.000	40.51	44.58	85.09	74.00	11.09	peak	
2	X	5725.000	30.01	44.58	74.59	54.00	20.59	AVG	
3	*	5740.000	54.47	44.66	99.13	54.00	45.13	AVG	Fundamental frequency, no limit
4	X	5744.000	64.00	44.68	108.68	74.00	34.68	peak	Fundamental frequency, no limit

Note: The band edge frequency Limit line= fundamental - 20dB

Orthogonal Axis :	X
Test Mode :	TX AC N40 Mode 5755MHz

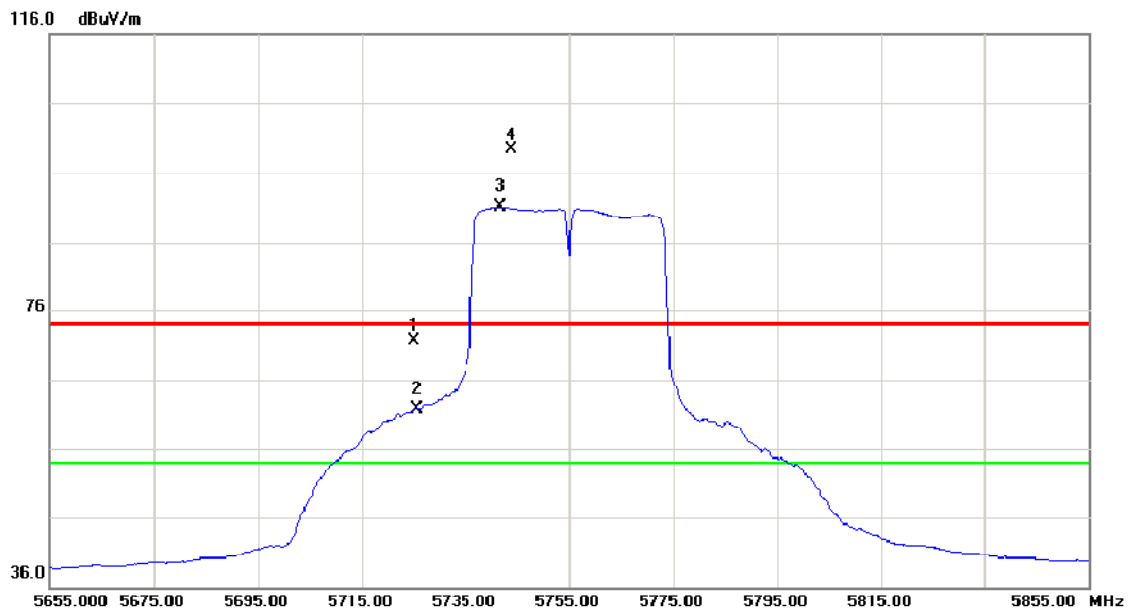
### Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11508.80	50.79	16.49	67.28	74.00	-6.72	peak	
2	*	11510.80	37.28	16.48	53.76	54.00	-0.24	AVG	

Orthogonal Axis :	X
Test Mode :	TX AC N40 Mode 5755MHz

### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5725.000	30.40	41.10	71.50	74.00	-2.50	peak	
2	X	5725.000	20.53	41.10	61.63	54.00	7.63	AVG	
3	*	5741.800	49.95	41.16	91.11	54.00	37.11	AVG	Fundamental frequency, no limit
4	X	5744.000	58.16	41.17	99.33	74.00	25.33	peak	Fundamental frequency, no limit

Note: The band edge frequency Limit line= fundamental - 20dB