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RADIO TEST REPORT

Report No: STS2111182W02

Issued for

Litum bilgi teknolojileri san. Ve dis tic. A.S

Sevket Ozcelik sok. No29 Alsancak izmir Turkey

Product Name:	Endurance Anchor
Brand Name:	Litum
Model Name:	100
Series Model:	N/A
FCC ID:	2AW7W-100A
IC:	26820-100A
Test Standard:	Title 47 of the CFR, Part 15. Subpart F RSS 220 Issue 1, amendment 1 July 2018

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**TEST RESULT CERTIFICATION**

Applicant's Name: Litum bilgi teknolojileri san. Ve dis tic. A.S

Address: Sevket Ozcelik sok. No29 Alsancak izmir Turkey

Manufacture's Name: Litum bilgi teknolojileri san. Ve dis tic. A.S

Address: Sevket Ozcelik sok. No29 Alsancak izmir Turkey

Product Description

Product Name: Endurance Anchor

Brand Name: Litum

Model Name: 100

Series Model: N/A

Test Standards.....: Title 47 of the CFR, Part 15. Subpart F
RSS 220 Issue 1, amendment 1 July 2018
RSS-Gen Issue 5, Amendment 1, March 2019

Test Procedure: ANSI C63.10-2013

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC/IC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test:

Date of receipt of test item: 30 Nov. 2021

Date of performance of tests ...: 30 Nov. 2021 ~ 22 Mar. 2022

Date of Issue: 22 Mar. 2022

Test Result.....: **Pass**

Testing Engineer :

(Chris Chen)

Technical Manager :

(Sean she)

Authorized Signatory :

(Bovey Yang)





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**Revision History**

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	22 Mar. 2022	STS2111182W02	ALL	Initial Issue





1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part 15. Subpart F RSS 220 Issue 1, amendment 1 July 2018			
Standard Section	Test Item	Judgment	Remark
15.207 RSS-Gen (8.8)	AC Power Conducted Emission	Pass	
15.203 RSS-Gen (6.8)	Antenna Requirement	Pass	
15.209 15.517(c) RSS-220 (3.4) RSS-220 (5.2.1(d))	Radiated Spurious Emission	Pass	
15.209 15.517(d) RSS-220 (5.2.1(e))	Radiated Spurious Emission in GPS Band	Pass	
15.517(e) RSS-220 (5.2.1(g))	Peak Emissions within a 50MHz Bandwidth	Pass	
15.517(b) RSS-220 (2)	UWB Bandwidth	Pass	
RSS-Gen 6.7	99% Bandwidth	Pass	

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report.
- (2) All tests are according to ANSI C63.10-2013.



1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	RF output power, conducted	$\pm 0.87\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.895\text{dB}$
3	All emissions, radiated 9K-30MHz	$\pm 3.80\text{dB}$
4	All emissions, radiated 30M-1GHz	$\pm 4.09\text{dB}$
5	All emissions, radiated 1G-6GHz	$\pm 4.92\text{dB}$
6	All emissions, radiated >6G	$\pm 5.49\text{dB}$
7	Conducted Emission (9KHz-30MHz)	$\pm 2.73\text{dB}$



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name/PMN	Endurance Anchor								
Trade Name	Litum								
Model Name	100								
HVIN	100A								
Product Description	Endurance Anchor is a FCC Part 15.517 indoor UWB systems. <table><tr><td>Operation Frequency:</td><td>6489.6MHz</td></tr><tr><td>Modulation Type:</td><td>BPSK</td></tr><tr><td>Antenna Designation:</td><td>Please refer to the Note 3.</td></tr><tr><td>Antenna Gain(Peak):</td><td>PCB antenna</td></tr></table> Based on the application, features, or specification exhibited in User Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User Manual.	Operation Frequency:	6489.6MHz	Modulation Type:	BPSK	Antenna Designation:	Please refer to the Note 3.	Antenna Gain(Peak):	PCB antenna
Operation Frequency:	6489.6MHz								
Modulation Type:	BPSK								
Antenna Designation:	Please refer to the Note 3.								
Antenna Gain(Peak):	PCB antenna								
Channel List	Please refer to the Note 2.								
Rating	110-240V AC or 12-24V DC								
Battery	Rated Voltage: DC 3.7 V Charge Limit Voltage: 4.25 V Capacity: 3000 mAh								
Hardware version number	LT020104								
Software version number/FVIN	LT_02_01_RTLS_1002020B_DEV								
Serial Numbers	1000110210001, 1002800210002								
Connecting I/O Port(s)	Please refer to the Note 1.								

Note:

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

2.	Test channel	Frequency(GHz)	Test channel	Frequency(GHz)
	1	6468	-	-

3. Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	Litum	100	PCB	N/A	3.3dBi	Antenna

Note: The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report.



2.2 DESCRIPTION OF THE TEST MODES

For Radiated spurious emissions

Each of these EUT operation mode(s) or test configuration mode(s) mentioned below was evaluated respectively.

Pretest Mode	Description	Modulation
Mode 1	TX	BPSK

Note:

(1) All above mode have been measurement, only worst data was reported.

(2) We have be tested for all avaiable U.S. voltage and frequencies(For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V,50/60Hz is shown in the report.

(3) Test model of 1000000003 and 1000000004 all has been tested, only shown the worst case of the test model 1000000003.

For AC Conducted Emission

Test Case	
AC Conducted Emission	Mode 2 : Keeping TX

2.3 TEST SOFTWARE AND POWER LEVEL

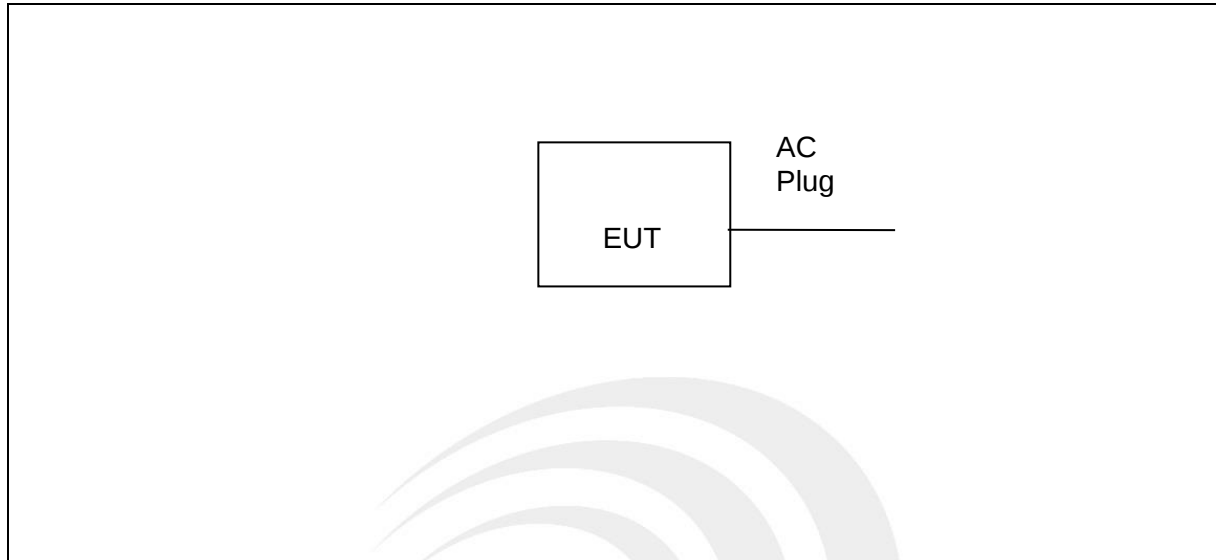
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

RF Function	Type	Mode Or Modulation type	Ant Gain(dBi)	Power Class	Software For Testing
UWB	6489.6MHz	BPSK	3.3	Default	The Transmitter EUT has signal transmission when it is powered on The Receiver EUT enter the receiving state when it is powered on

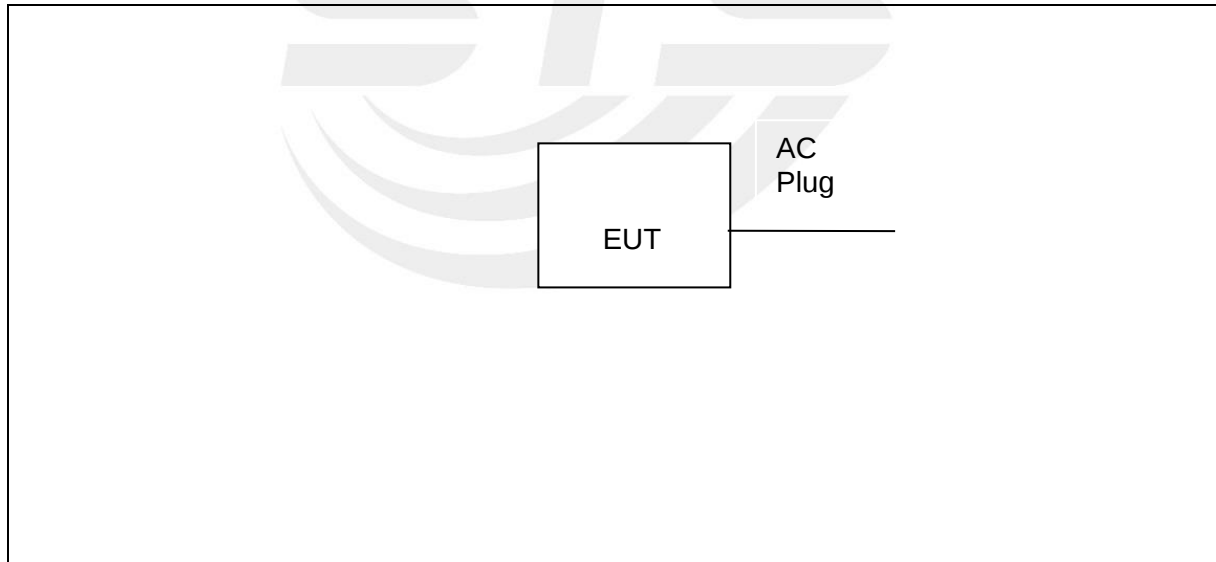
2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

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.

Radiated Spurious Emission Test



Conducted Emission Test





2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND 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.

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
N/A	N/A	N/A	N/A	N/A	N/A

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
N/A	N/A	N/A	N/A	N/A	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2021.09.30	2022.09.29
Signal Analyzer	R&S	FSV 40-N	101823	2021.09.30	2022.09.29
Active loop Antenna	ZHINAN	ZN30900C	16035	2021.04.11	2023.04.10
Bilog Antenna	TESEQ	CBL6111D	34678	2020.10.12	2022.10.11
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2021.10.11	2023.10.10
Pre-Amplifier (0.1M-3GHz)	EM	EM330	060665	2021.10.08	2022.10.07
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2021.09.30	2022.09.29
Temperature & Humidity	HH660	Mieo	N/A	2021.10.09	2022.10.08
Turn table	EM	SC100_1	60531	N/A	N/A
Antenna mast	EM	SC100	N/A	N/A	N/A
Test SW	FARAD	EZ-EMC(Ver.STSLAB-03A1 RE)			

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2021.09.30	2022.09.29
LISN	R&S	ENV216	101242	2021.09.30	2022.09.29
LISN	EMCO	3810/2NM	23625	2021.09.30	2022.09.29
Temperature & Humidity	HH660	Mieo	N/A	2021.10.09	2022.10.08
Test SW	FARAD	EZ-EMC(Ver.STSLAB-03A1 CE)			

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Signal Analyzer	Agilent	N9020A	MY51110105	2022.03.01	2023.02.28
Temperature & Humidity	HH660	Mieo	N/A	2021.10.09	2022.10.08
Test SW	FARAD	LZ-RF /LzRf-3A3			



3. EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

Operating frequency band. In case the emission fall within the restricted band specified on Part 15.207&RSS-Gen (8.8) limit in the table below has to be followed.

FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

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.

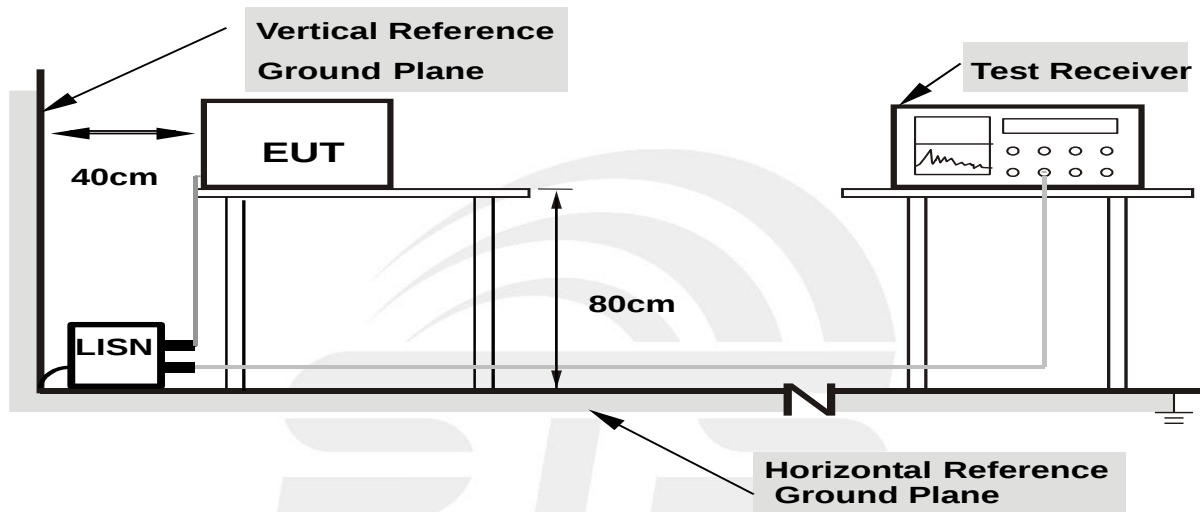
The following table is the setting of the receiver

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

3.1.2 TEST PROCEDURE

- The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical 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.
- 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.
- 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.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 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

3.1.4 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.



3.1.5 TEST RESULT

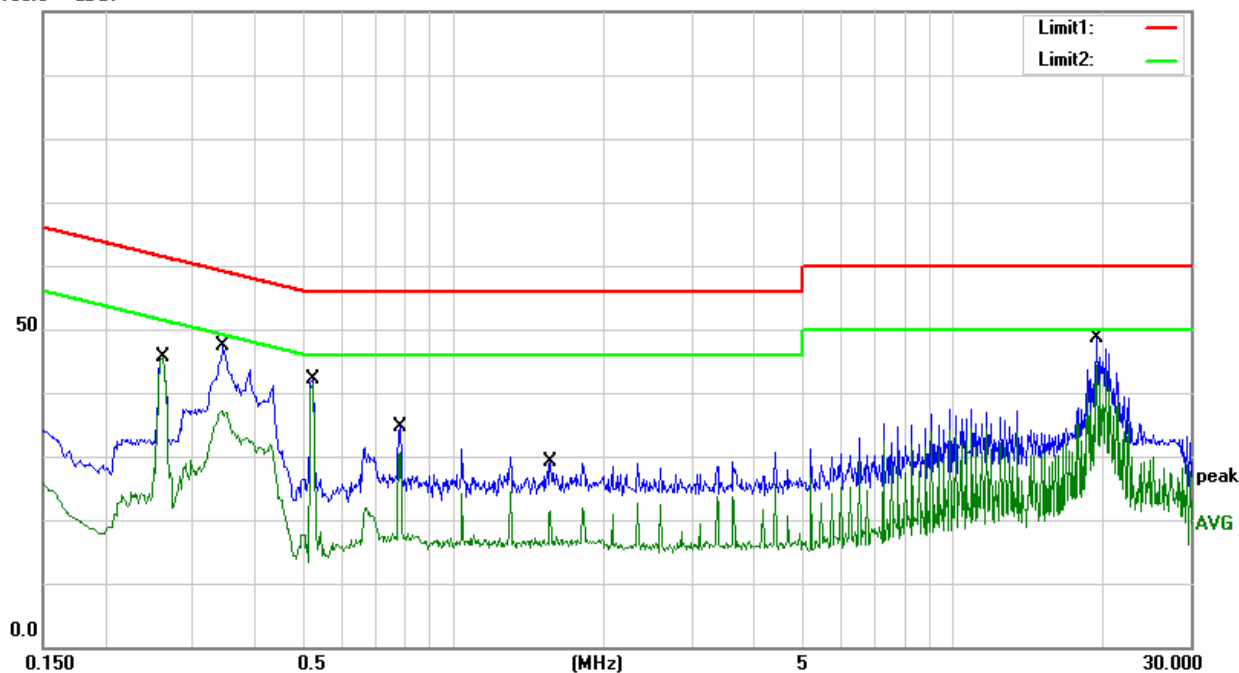
Temperature:	24.5(C)	Relative Humidity:	40%RH
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 2		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2620	25.08	20.64	45.72	61.37	-15.65	QP
2	0.2620	24.87	20.64	45.51	51.37	-5.86	AVG
3	0.3460	26.80	20.69	47.49	59.06	-11.57	QP
4	0.3460	16.53	20.69	37.22	49.06	-11.84	AVG
5	0.5220	21.70	20.48	42.18	56.00	-13.82	QP
6	0.5220	20.98	20.48	41.46	46.00	-4.54	AVG
7	0.7820	14.36	20.35	34.71	56.00	-21.29	QP
8	0.7820	10.31	20.35	30.66	46.00	-15.34	AVG
9	1.5620	8.66	20.35	29.01	56.00	-26.99	QP
10	1.5620	0.91	20.35	21.26	46.00	-24.74	AVG
11	19.4980	25.75	22.77	48.52	60.00	-11.48	QP
12	19.4980	21.50	22.77	44.27	50.00	-5.73	AVG

Remark:

1. All readings are Quasi-Peak and Average values
2. Margin = Result (Result = Reading + Factor) – Limit
3. Factor = LISN factor + Cable loss + Limiter (10dB)

100.0 dBuV





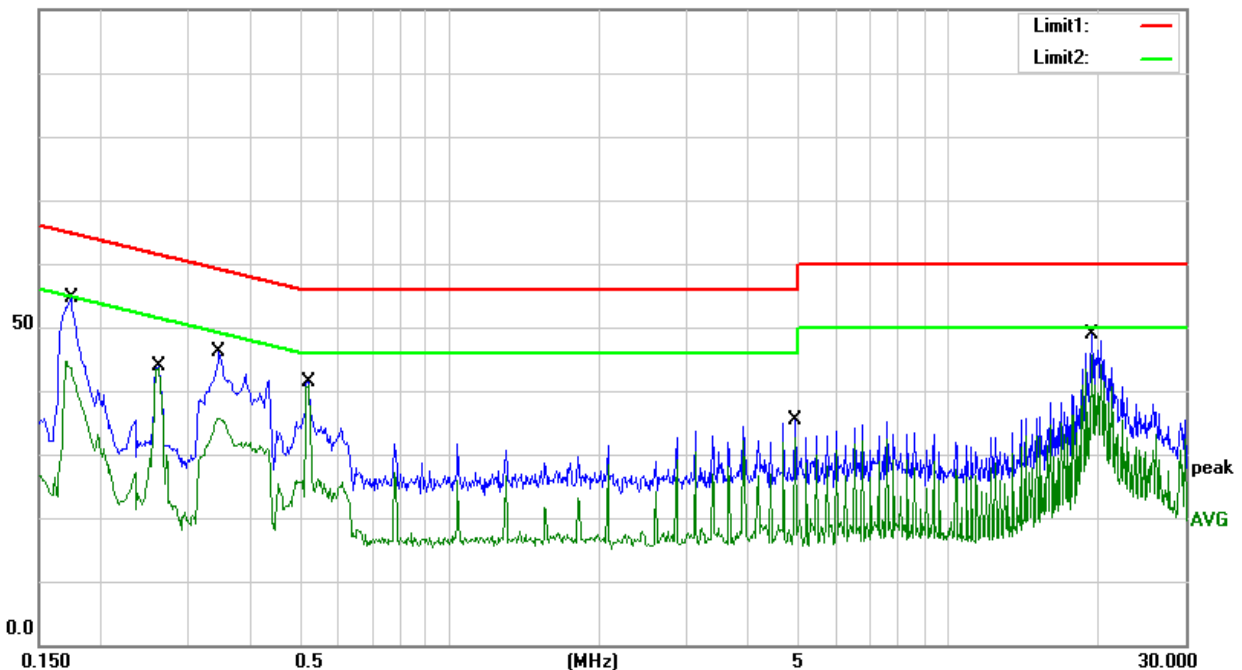
Temperature:	24.5(C)	Relative Humidity:	40%RH
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 2		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1740	34.33	20.35	54.68	64.77	-10.09	QP
2	0.1740	24.24	20.35	44.59	54.77	-10.18	AVG
3	0.2620	23.19	20.64	43.83	61.37	-17.54	QP
4	0.2620	22.90	20.64	43.54	51.37	-7.83	AVG
5	0.3460	25.34	20.69	46.03	59.06	-13.03	QP
6	0.3460	15.06	20.69	35.75	49.06	-13.31	AVG
7	0.5220	20.85	20.48	41.33	56.00	-14.67	QP
8	0.5220	20.29	20.48	40.77	46.00	-5.23	AVG
9	4.9380	14.75	20.53	35.28	56.00	-20.72	QP
10	4.9380	12.14	20.53	32.67	46.00	-13.33	AVG
11	19.4940	26.11	22.77	48.88	60.00	-11.12	QP
12	19.4940	22.86	22.77	45.63	50.00	-4.37	AVG

Remark:

1. All readings are Quasi-Peak and Average values
2. Margin = Result (Result = Reading + Factor) – Limit
3. Factor=LISN factor+Cable loss+Limiter (10dB)

100.0 dBuV





3.2 RADIATED EMISSION MEASUREMENT (FOR 15.517(c)&RSS 220 5.2.1(d))

3.2.1 RADIATED EMISSION LIMITS

The radiated emissions at or below 960MHz from a device operating under the provisions of this section shall not exceed the emission levels in Section 15.209&RSS 220(3.4).

Frequencies (MHz)	Field Strength (micorvolts/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

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

2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

For FCC:

The radiated emissions above 960MHz from a device operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of 1MHz:

Frequency of Emission (MHz)	EIRP (dBm)	Field Strength (dBuV/m@3m)	Field Strength (dBuV/m@1m)
960~1610	-75.3	19.9	29.44
1610~1990	-53.3	41.9	51.44
1990~3100	-51.3	43.9	53.44
3100~10600	-41.3	53.9	63.44
Above 10600	-51.3	43.9	53.44

Notes: 1. Transfer rules follow 15.521(g),15.31(f)(1).

2. 15.521(c) Emissions from digital circuitry used to enable the operation of the UWB transmitter shall comply with the limits in Section 15.209 of this chapter, rather than the limits specified in this subpart.

3. $E(\text{dBuV/m})@3\text{m} = P(\text{dBm EIRP}) + 95.2$;

$E(\text{dBuV/m})@1\text{m} = E(\text{dBuV/m})@3\text{m} + 20 \cdot \log(3/1)$



For IC:

The radiated emissions above 960MHz from a device operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of 1MHz:

Frequency of Emission (MHz)	EIRP (dBm)	Field Strength (dBuV/m@3m)	Field Strength (dBuV/m@1m)
960~1610	-75.3	19.9	29.44
1610~4750	-70.0	25.2	34.74
4750~10600	-41.3	53.9	63.44
Above 10600	-51.3	43.9	53.44

Notes: 1. Transfer rules follow section 2 of the RSS 220 Annex.

2. The Emissions from digital circuitry used to enable the operation of the UWB transmitter shall comply with the limits in Section RSS 220(3.4) of this chapter, rather than the limits specified in this subpart.

3. $E(\text{dBuV/m})@3\text{m} = P(\text{dBm EIRP}) + 95.2$;

$E(\text{dBuV/m})@1\text{m} = E(\text{dBuV/m})@3\text{m} + 20 \cdot \log(3/1)$

Spectrum Parameter	Setting
Detector	RMS
Attenuation	Auto
Start Frequency	960 MHz
Stop Frequency	10th of the highest fundamental frequency or to 40 GHz, whichever is lower
RB	1MHz
VB	3MHz
Sweep Point	1001
SweepTime	1s

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
	90kHz~110kHz / RB 200Hz for QP
	110kHz~490kHz / RB 200Hz for PK & AV
	490kHz~30MHz / RB 9kHz for QP
	30MHz~960MHz / RB 120kHz for QP



3.2.2 TEST PROCEDURE

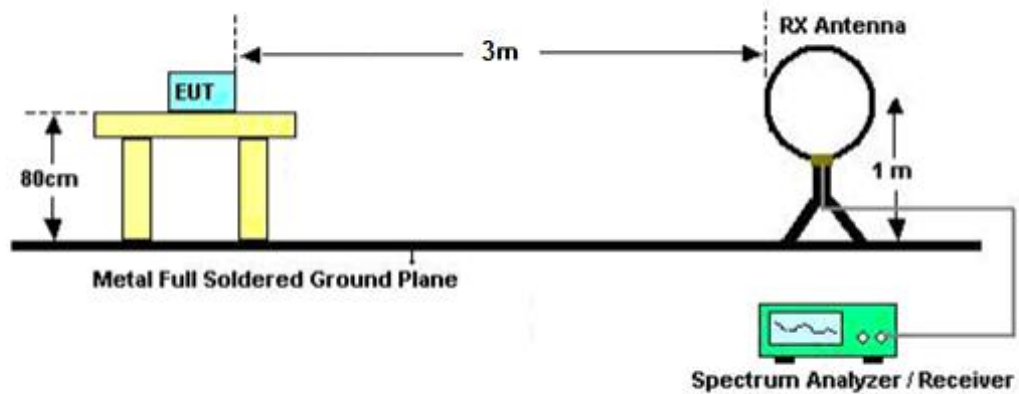
- a. The measuring distance of 1m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8meter (above 1GHz is 1.5 m) above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The height of the test antenna shall vary between 1m to 4m. Both horizontal and vertical polarization of the antenna are set to make the measurement.
- c. The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- d. All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform (Below 960MHz)
- e. All readings are RMS mode value, for each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. (Above 960MHz)
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.
Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

3.2.3 DEVIATION FROM TEST STANDARD

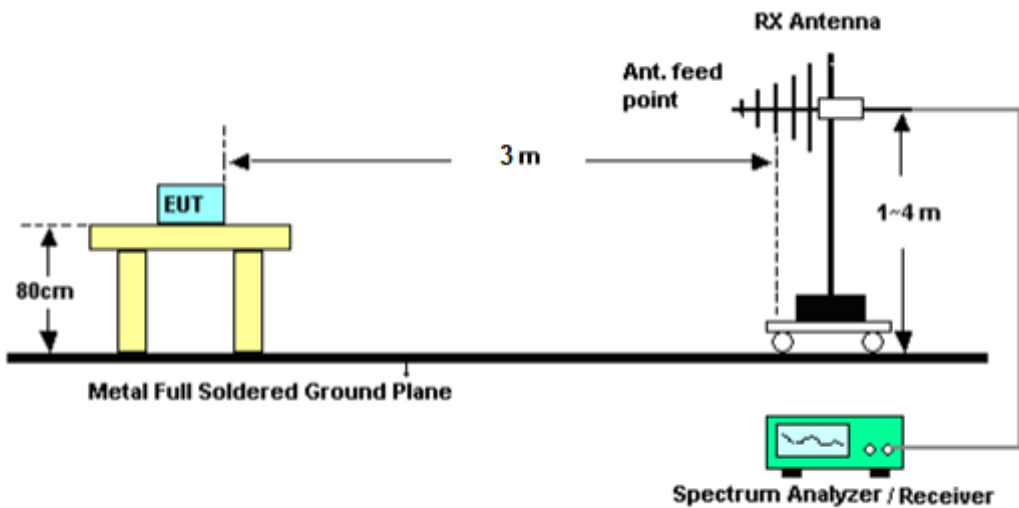
No deviation

3.2.4 TEST SETUP

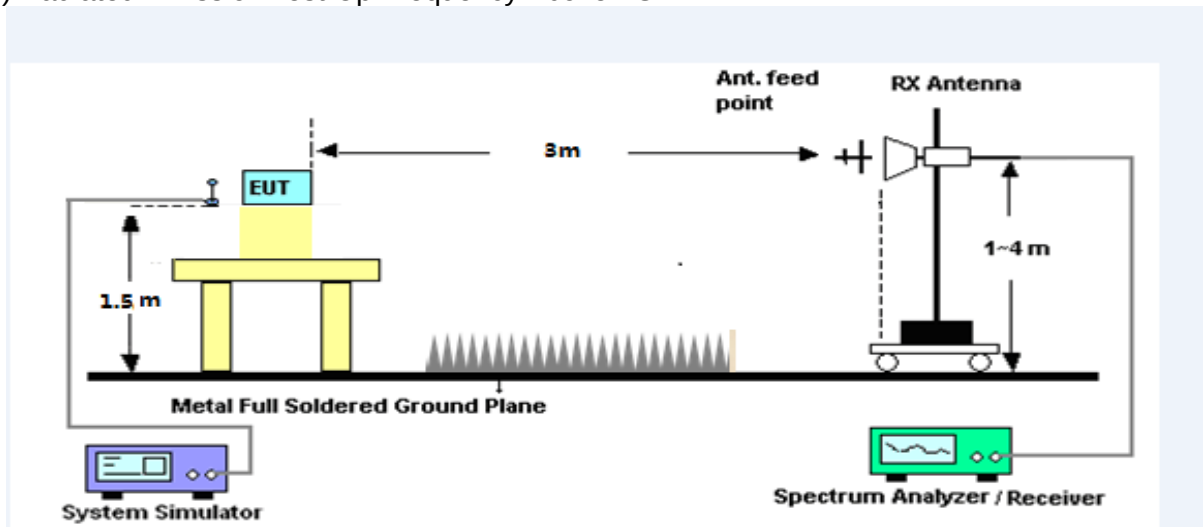
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz





3.2.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

Margin=PL-PK L or AL- AV L; Margin only shown the worst case.

Where

PR = Peak Reading

AR = Average Reading

PL = Peak Level

AL = Average Level

AF = Antenna Factor

PK L = Peak Limit

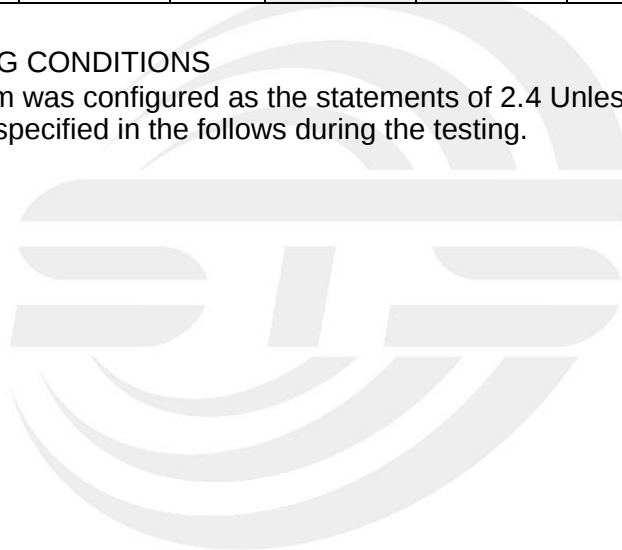
AV L = AV Limit

For example

Frequency	PR	AR	AF	PL	AL	PK L	AV L	Margin
(MHz)	(dBμV/m)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV/m)	(dBμV/m)	(dBμV/m)	(dB)
2178	40.23	30.31	9.83	50.06	40.14	74.00	54.00	-13.86

3.2.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.





3.2.7 TEST RESULTS

Below 30MHz

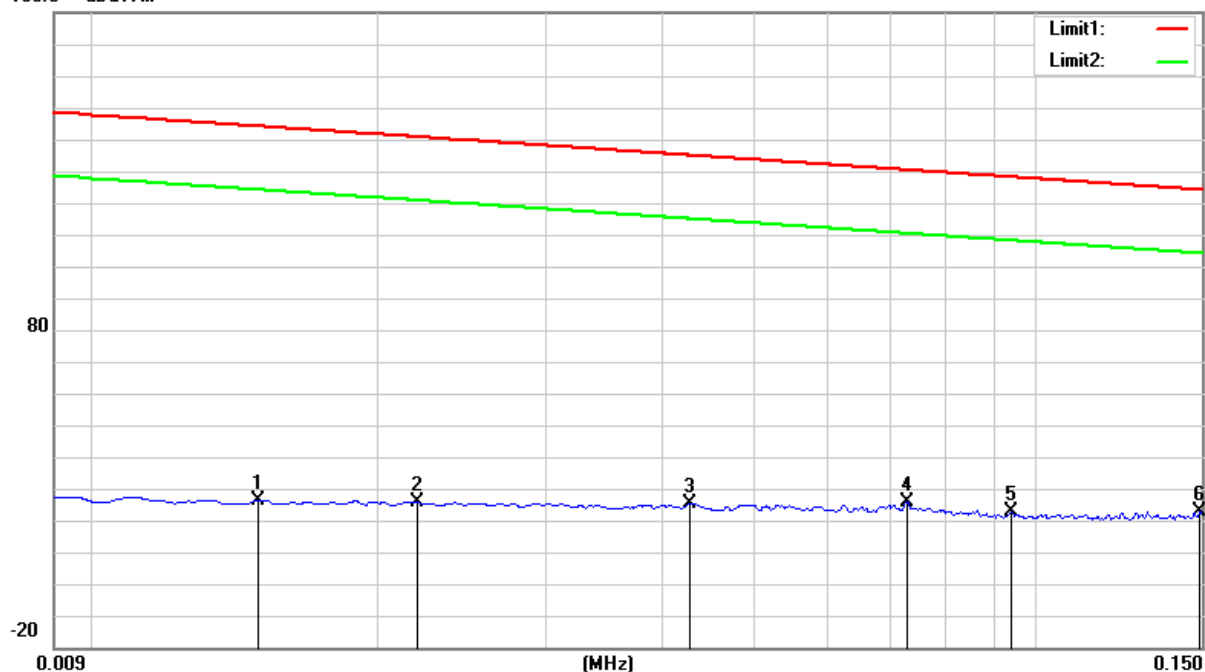
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Test Mode:	CH 1(9KHz - 150KHz)
Test distance:	3m		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0150	6.53	19.74	26.27	124.08	-97.81	peak
2	0.0220	5.49	20.06	25.55	120.76	-95.21	peak
3	0.0428	5.84	19.64	25.48	114.97	-89.49	peak
4	0.0728	6.80	18.86	25.66	110.36	-84.70	peak
5	0.0940	4.70	17.89	22.59	108.14	-85.55	peak
6	0.1494	5.21	17.50	22.71	104.11	-81.40	peak

Remark:

- Margin = Result (Result = Reading + Factor) - Limit
- Factor = Antenna factor + Cable attenuation factor (cable loss) - Amplifier gain

180.0 dBuV/m



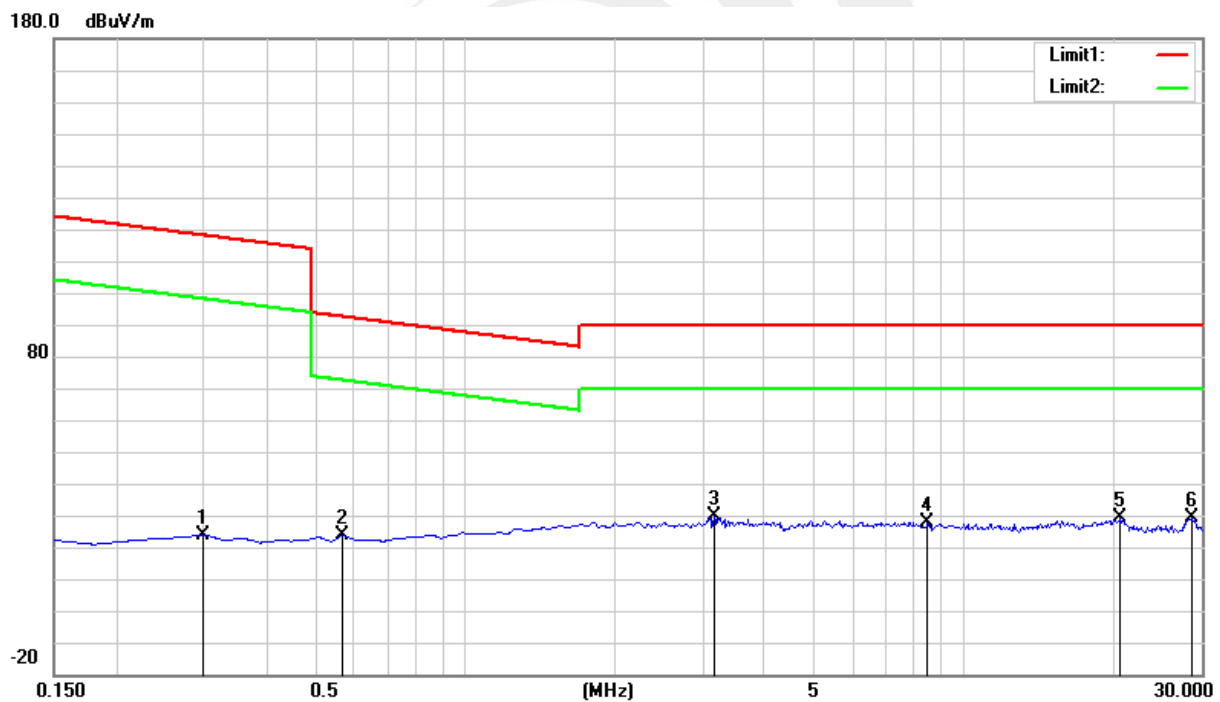


Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Test Mode:	CH 1 (150KHz – 30MHz)
Test distance:	3m		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.2993	3.86	20.12	23.98	98.08	-74.10	peak
2	0.5680	3.57	20.23	23.80	72.52	-48.72	peak
3	3.1648	9.47	20.15	29.62	69.54	-39.92	peak
4	8.4781	7.66	20.29	27.95	69.54	-41.59	peak
5	20.6570	6.79	22.25	29.04	69.54	-40.50	peak
6	28.6567	8.87	20.31	29.18	69.54	-40.36	peak

Remark:

1. $\text{Margin} = \text{Result} (\text{Result} = \text{Reading} + \text{Factor}) - \text{Limit}$
2. $\text{Factor} = \text{Antenna factor} + \text{Cable attenuation factor (cable loss)} - \text{Amplifier gain}$



Note: The position of the measurement polarization (Horizontal / Face-on / Face-off) all has been tested, only shown the worst mode of Horizontal position.



30MHz – 960MHz Radiation Spurious

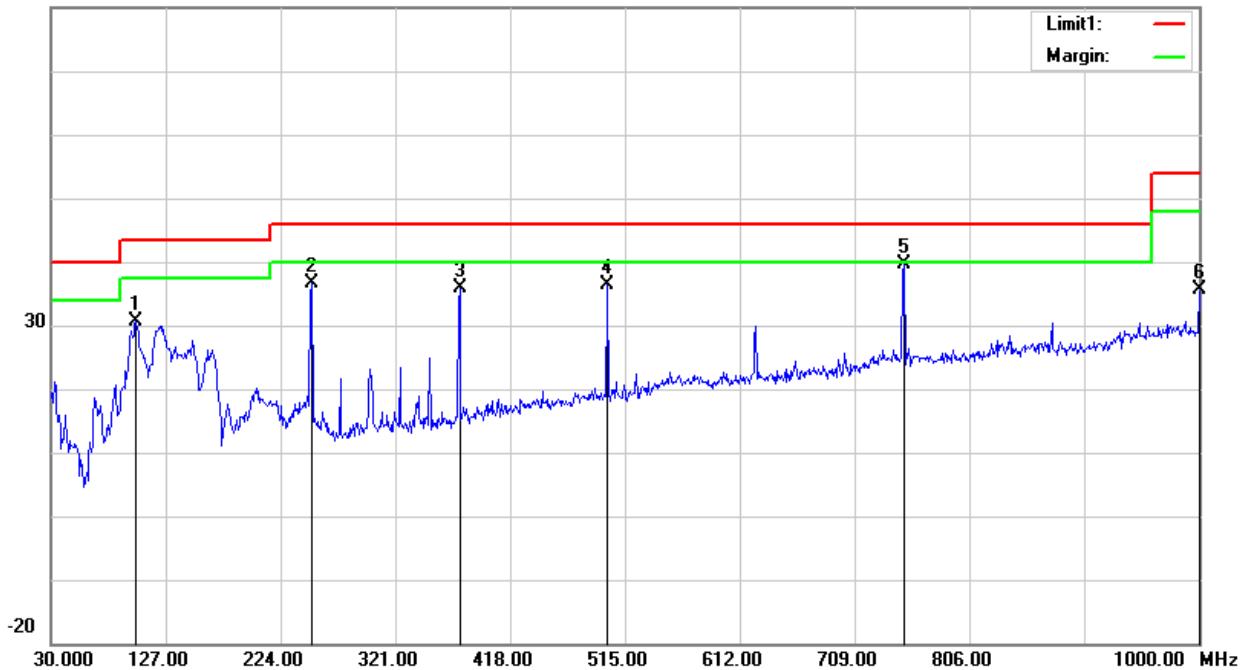
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Horizontal
Test Mode:	CH 1	Test distance:	3m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	101.7800	50.48	-19.94	30.54	43.50	-12.96	peak
2	250.1900	52.81	-16.10	36.71	46.00	-9.29	peak
3	375.3200	48.13	-12.37	35.76	46.00	-10.24	peak
4	500.4500	44.44	-8.01	36.43	46.00	-9.57	peak
5	750.7100	41.88	-2.16	39.72	46.00	-6.28	peak
6	1000.0000	33.54	2.04	35.58	54.00	-18.42	peak

Remark:

- Margin = Result (Result = Reading + Factor) – Limit
- Factor = Antenna factor + Cable attenuation factor (cable loss) – Amplifier gain

80.0 dBuV/m



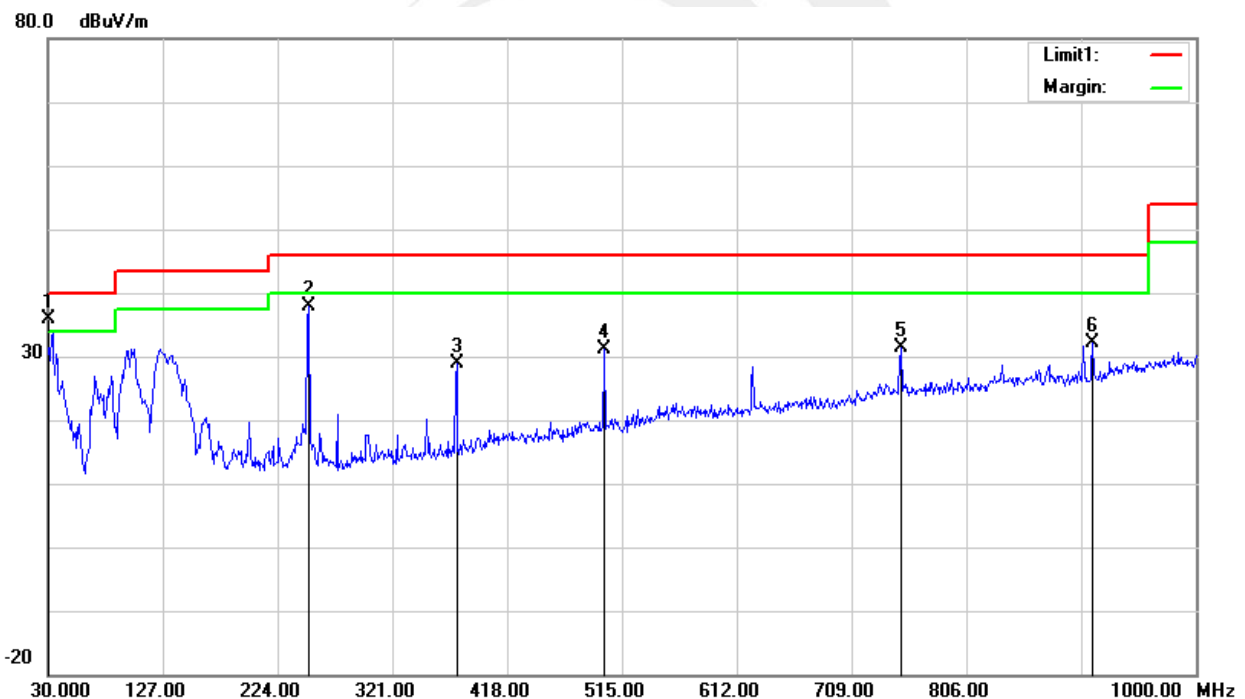


Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	CH 1	Test distance:	3m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.0000	48.83	-12.85	35.98	40.00	-4.02	peak
2	250.1900	53.92	-16.10	37.82	46.00	-8.18	peak
3	375.3200	41.16	-12.37	28.79	46.00	-17.21	peak
4	500.4500	39.25	-8.01	31.24	46.00	-14.76	peak
5	750.7100	33.52	-2.16	31.36	46.00	-14.64	peak
6	912.7000	32.19	-0.14	32.05	46.00	-13.95	peak

Remark:

1. Margin = Result (Result = Reading + Factor) - Limit
2. Factor = Antenna factor + Cable attenuation factor (cable loss) - Amplifier gain





Above 960MHz Radiation Spurious

FCC:

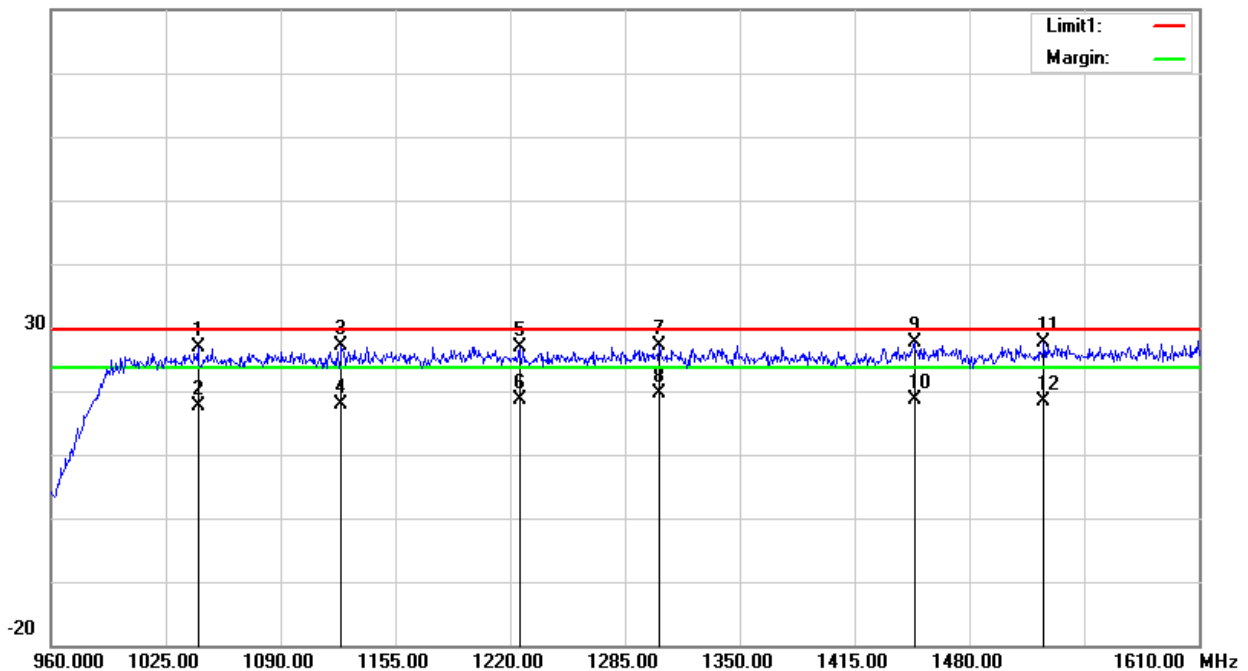
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Horizontal
Test Mode:	CH 1(960MHz -1610MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1043.200	28.35	-1.40	26.95	29.54	-2.59	peak
2	1043.200	18.98	-1.40	17.58	29.54	-11.96	RMS
3	1124.450	28.08	-1.00	27.08	29.54	-2.46	peak
4	1124.450	18.86	-1.00	17.86	29.54	-11.68	RMS
5	1225.200	27.45	-0.47	26.98	29.54	-2.56	peak
6	1225.200	19.00	-0.47	18.53	29.54	-11.01	RMS
7	1304.500	27.35	-0.12	27.23	29.54	-2.31	peak
8	1304.500	19.74	-0.12	19.62	29.54	-9.92	RMS
9	1448.800	26.66	0.87	27.53	29.54	-2.01	peak
10	1448.800	17.82	0.87	18.69	29.54	-10.85	RMS
11	1522.250	25.54	2.01	27.55	29.54	-1.99	peak
12	1522.250	16.36	2.01	18.37	29.54	-11.17	RMS

Remark:

1. Margin = Result (Result =Reading + Factor)-Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain

80.0 dBuV/m





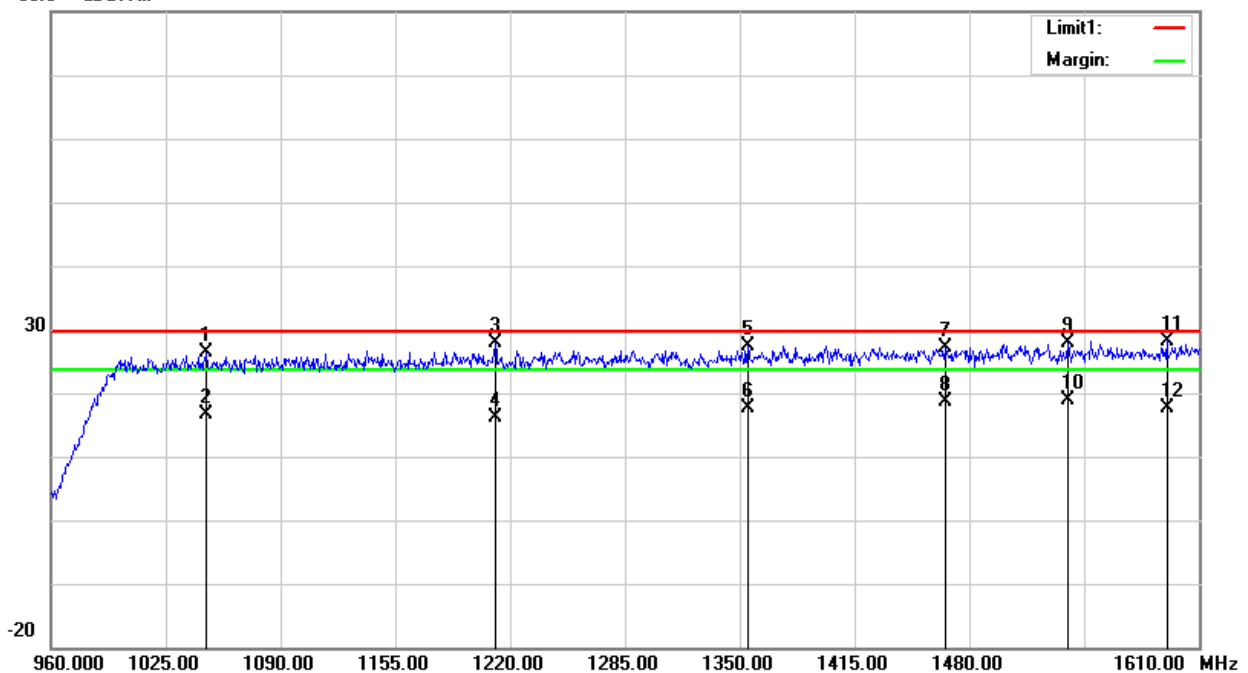
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	CH 1(960MHz -1610MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1047.750	27.89	-1.39	26.50	29.54	-3.04	peak
2	1047.750	17.93	-1.39	16.54	29.54	-13.00	RMS
3	1211.550	28.43	-0.44	27.99	29.54	-1.55	peak
4	1211.550	16.61	-0.44	16.17	29.54	-13.37	RMS
5	1354.550	27.40	0.08	27.48	29.54	-2.06	peak
6	1354.550	17.45	0.08	17.53	29.54	-12.01	RMS
7	1466.350	25.93	1.08	27.01	29.54	-2.53	peak
8	1466.350	17.56	1.08	18.64	29.54	-10.90	RMS
9	1535.900	25.66	2.33	27.99	29.54	-1.55	peak
10	1535.900	16.56	2.33	18.89	29.54	-10.65	RMS
11	1591.800	24.27	3.98	28.25	29.54	-1.29	peak
12	1591.800	13.75	3.98	17.73	29.54	-11.81	RMS

Remark:

1. $\text{Margin} = \text{Result} (\text{Result} = \text{Reading} + \text{Factor}) - \text{Limit}$
2. $\text{Factor} = \text{Antenna factor} + \text{Cable attenuation factor} (\text{cable loss}) - \text{Amplifier gain}$

80.0 dBuV/m





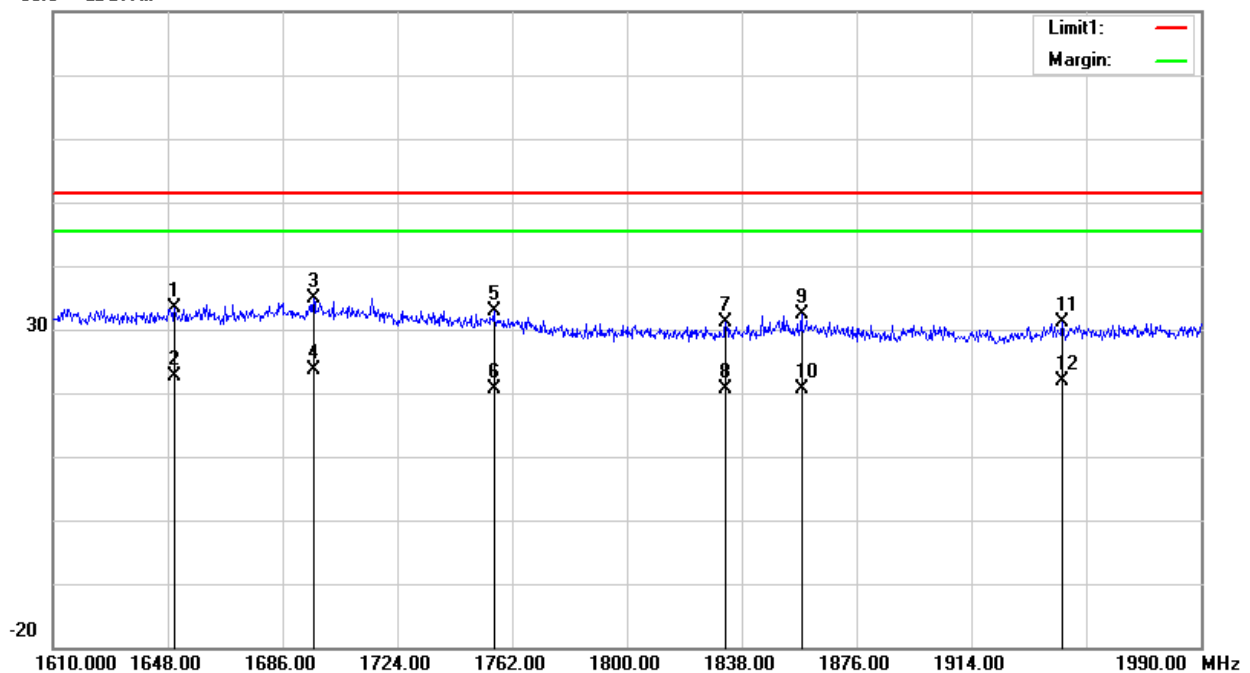
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Horizontal
Test Mode:	CH 1(1610MHz – 1990MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1650.280	29.20	4.25	33.45	51.44	-17.99	peak
2	1650.280	18.36	4.25	22.61	51.44	-28.83	RMS
3	1696.260	29.65	5.15	34.80	51.44	-16.64	peak
4	1696.260	18.49	5.15	23.64	51.44	-27.80	RMS
5	1755.920	29.51	3.44	32.95	51.44	-18.49	peak
6	1755.920	17.15	3.44	20.59	51.44	-30.85	RMS
7	1832.680	28.92	2.16	31.08	51.44	-20.36	peak
8	1832.680	18.41	2.16	20.57	51.44	-30.87	RMS
9	1857.760	30.11	2.22	32.33	51.44	-19.11	peak
10	1857.760	18.43	2.22	20.65	51.44	-30.79	RMS
11	1944.020	29.56	1.52	31.08	51.44	-20.36	peak
12	1944.020	20.44	1.52	21.96	51.44	-29.48	RMS

Remark:

1. $\text{Margin} = \text{Result} (\text{Result} = \text{Reading} + \text{Factor}) - \text{Limit}$
2. $\text{Factor} = \text{Antenna factor} + \text{Cable attenuation factor}(\text{cable loss}) - \text{Amplifier gain}$

80.0 dBuV/m





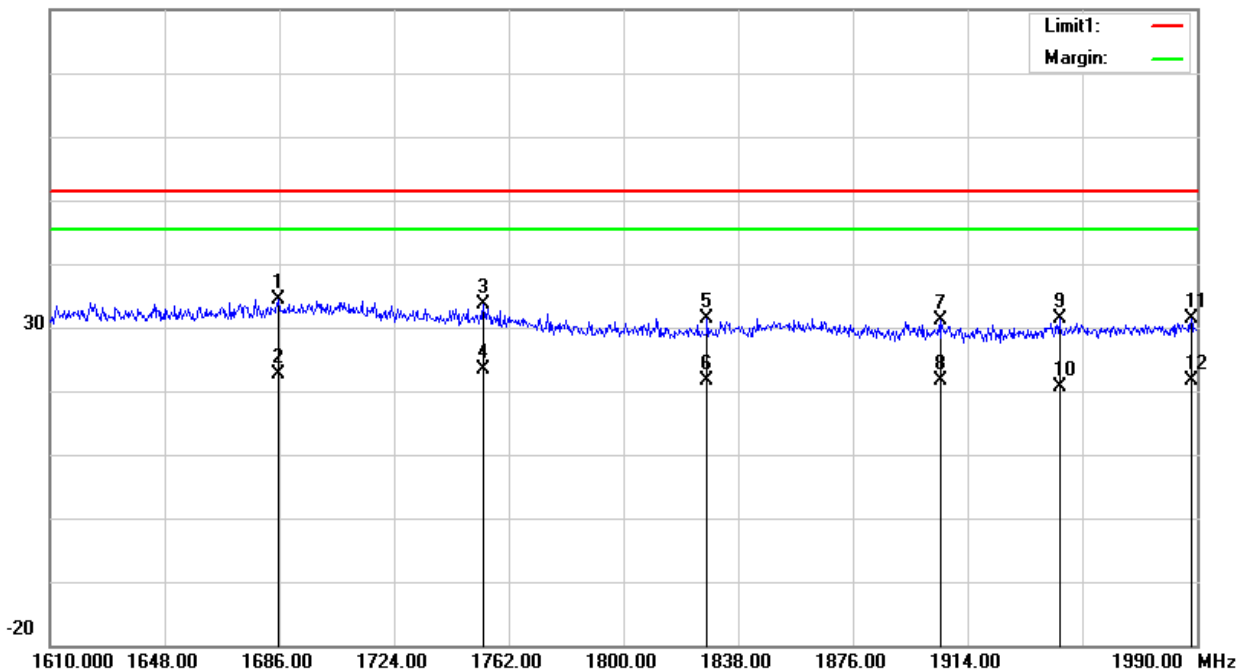
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	CH 1(1610MHz – 1990MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1685.620	29.36	4.93	34.29	51.44	-17.15	peak
2	1685.620	17.63	4.93	22.56	51.44	-28.88	RMS
3	1753.640	30.21	3.53	33.74	51.44	-17.70	peak
4	1753.640	19.94	3.53	23.47	51.44	-27.97	RMS
5	1827.740	29.24	2.09	31.33	51.44	-20.11	peak
6	1827.740	19.53	2.09	21.62	51.44	-29.82	RMS
7	1905.260	29.64	1.46	31.10	51.44	-20.34	peak
8	1905.260	20.12	1.46	21.58	51.44	-29.86	RMS
9	1944.400	29.89	1.52	31.41	51.44	-20.03	peak
10	1944.400	19.21	1.52	20.73	51.44	-30.71	RMS
11	1988.100	29.47	1.90	31.37	51.44	-20.07	peak
12	1988.100	19.70	1.90	21.60	51.44	-29.84	RMS

Remark:

1. $\text{Margin} = \text{Result} (\text{Result} = \text{Reading} + \text{Factor}) - \text{Limit}$
2. $\text{Factor} = \text{Antenna factor} + \text{Cable attenuation factor}(\text{cable loss}) - \text{Amplifier gain}$

80.0 dBuV/m





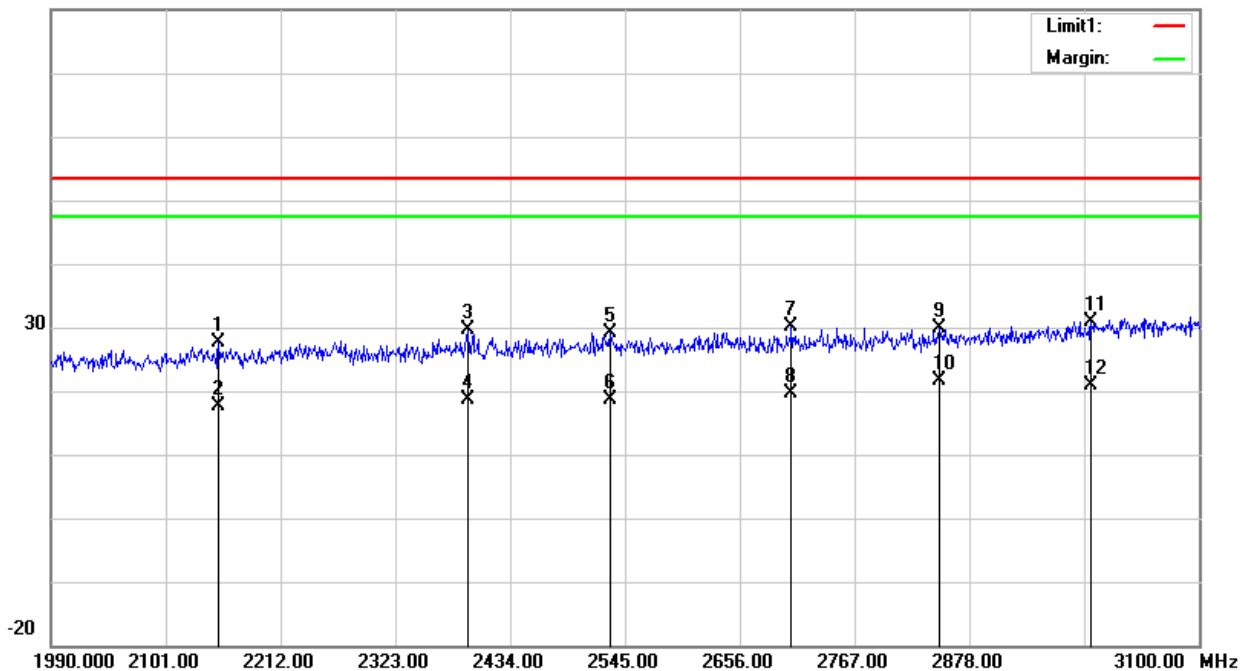
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Horizontal
Test Mode:	CH 1(1990MHz – 3100MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2152.060	24.45	3.28	27.73	53.44	-25.71	peak
2	2152.060	14.40	3.28	17.68	53.44	-35.76	RMS
3	2392.930	25.27	4.39	29.66	53.44	-23.78	peak
4	2392.930	14.23	4.39	18.62	53.44	-34.82	RMS
5	2530.570	24.16	4.86	29.02	53.44	-24.42	peak
6	2530.570	13.73	4.86	18.59	53.44	-34.85	RMS
7	2705.950	24.36	5.67	30.03	53.44	-23.41	peak
8	2705.950	13.86	5.67	19.53	53.44	-33.91	RMS
9	2849.140	23.37	6.56	29.93	53.44	-23.51	peak
10	2849.140	15.00	6.56	21.56	53.44	-31.88	RMS
11	2995.660	23.92	7.03	30.95	53.44	-22.49	peak
12	2995.660	13.87	7.03	20.90	53.44	-32.54	RMS

Remark:

1. $\text{Margin} = \text{Result} (\text{Result} = \text{Reading} + \text{Factor}) - \text{Limit}$
2. $\text{Factor} = \text{Antenna factor} + \text{Cable attenuation factor}(\text{cable loss}) - \text{Amplifier gain}$

80.0 dBuV/m





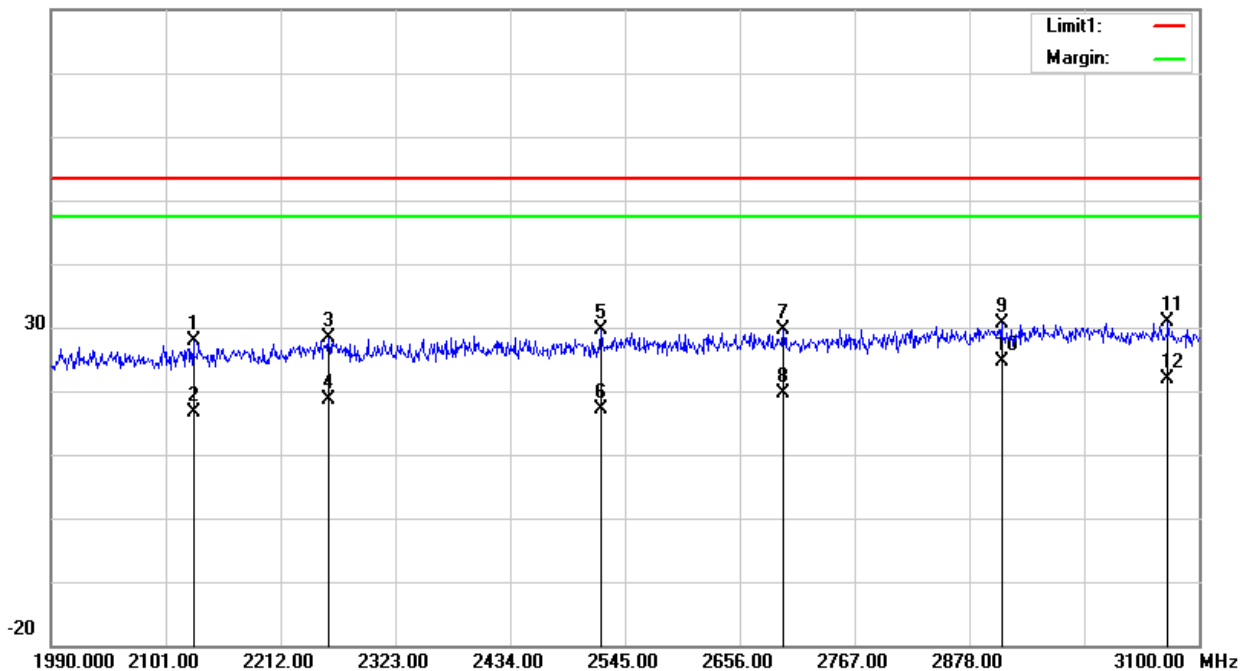
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	CH 1(1990MHz – 3100MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2127.640	25.01	2.90	27.91	53.44	-25.53	peak
2	2127.640	13.72	2.90	16.62	53.44	-36.82	RMS
3	2258.620	24.74	3.72	28.46	53.44	-24.98	peak
4	2258.620	14.92	3.72	18.64	53.44	-34.80	RMS
5	2521.690	24.77	4.80	29.57	53.44	-23.87	peak
6	2521.690	12.45	4.80	17.25	53.44	-36.19	RMS
7	2698.180	24.07	5.61	29.68	53.44	-23.76	peak
8	2698.180	14.12	5.61	19.73	53.44	-33.71	RMS
9	2909.080	23.82	6.77	30.59	53.44	-22.85	peak
10	2909.080	17.79	6.77	24.56	53.44	-28.88	RMS
11	3070.030	2.55	28.24	30.79	53.44	-22.65	peak
12	3070.030	-6.40	28.24	21.84	53.44	-31.60	RMS

Remark:

1. $\text{Margin} = \text{Result} (\text{Result} = \text{Reading} + \text{Factor}) - \text{Limit}$
2. $\text{Factor} = \text{Antenna factor} + \text{Cable attenuation factor}(\text{cable loss}) - \text{Amplifier gain}$

80.0 dBuV/m





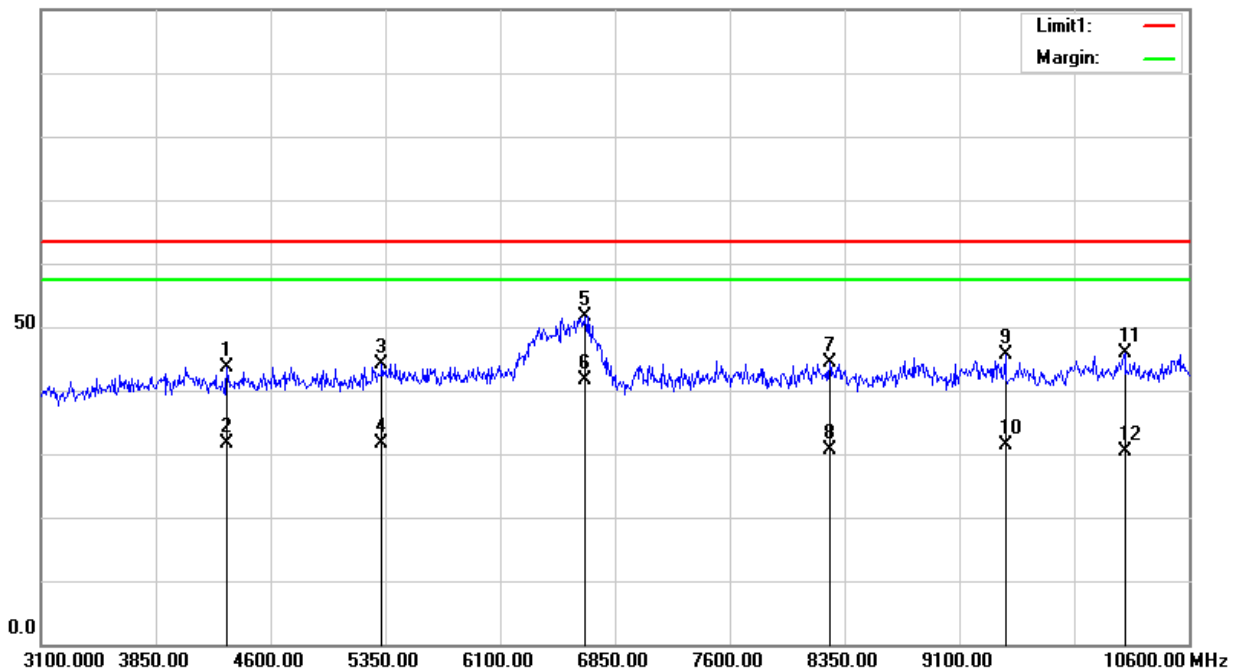
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Horizontal
Test Mode:	CH 1 (3100MHz – 10600MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4315.000	13.25	30.27	43.52	63.44	-19.92	peak
2	4315.000	1.35	30.27	31.62	63.44	-31.82	RMS
3	5327.500	12.37	31.86	44.23	63.44	-19.21	peak
4	5327.500	-0.28	31.86	31.58	63.44	-31.86	RMS
5	6655.000	17.06	34.57	51.63	63.44	-11.81	peak
6	6655.000	6.99	34.57	41.56	63.44	-21.88	RMS
7	8252.500	7.21	37.10	44.31	63.44	-19.13	peak
8	8252.500	-6.53	37.10	30.57	63.44	-32.87	RMS
9	9400.000	7.92	37.68	45.60	63.44	-17.84	peak
10	9400.000	-6.26	37.68	31.42	63.44	-32.02	RMS
11	10180.000	7.63	38.35	45.98	63.44	-17.46	peak
12	10180.000	-8.02	38.35	30.33	63.44	-33.11	RMS

Remark:

1. Margin = Result (Result = Reading + Factor) – Limit
2. Factor = Antenna factor + Cable attenuation factor (cable loss) – Amplifier gain

100.0 dBuV/m





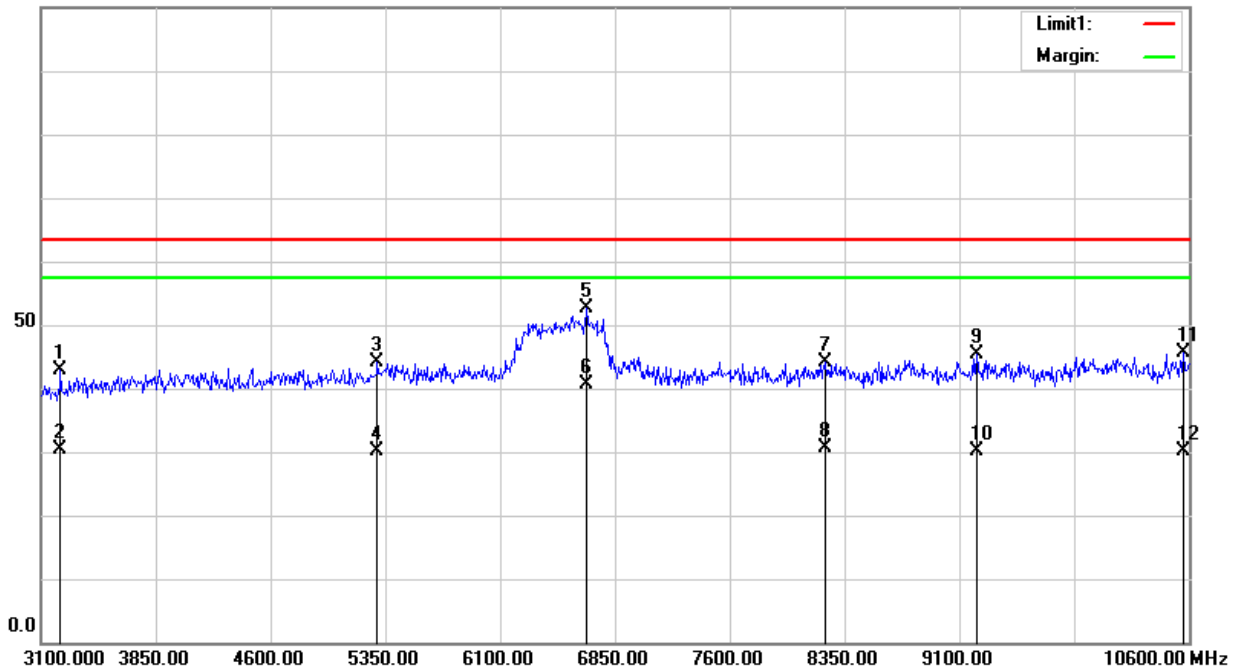
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	CH 1 (3100MHz – 10600MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3227.500	14.50	28.34	42.84	63.44	-20.60	peak
2	3227.500	2.08	28.34	30.42	63.44	-33.02	RMS
3	5297.500	12.19	31.84	44.03	63.44	-19.41	peak
4	5297.500	-1.66	31.84	30.18	63.44	-33.26	RMS
5	6662.500	17.96	34.59	52.55	63.44	-10.89	peak
6	6662.500	5.94	34.59	40.53	63.44	-22.91	RMS
7	8222.500	7.14	37.09	44.23	63.44	-19.21	peak
8	8222.500	-6.45	37.09	30.64	63.44	-32.80	RMS
9	9212.500	7.78	37.55	45.33	63.44	-18.11	peak
10	9212.500	-7.37	37.55	30.18	63.44	-33.26	RMS
11	10562.500	6.67	38.89	45.56	63.44	-17.88	peak
12	10562.500	-8.74	38.89	30.15	63.44	-33.29	RMS

Remark:

1. Margin = Result (Result = Reading + Factor) – Limit
2. Factor = Antenna factor + Cable attenuation factor (cable loss) – Amplifier gain

100.0 dBuV/m



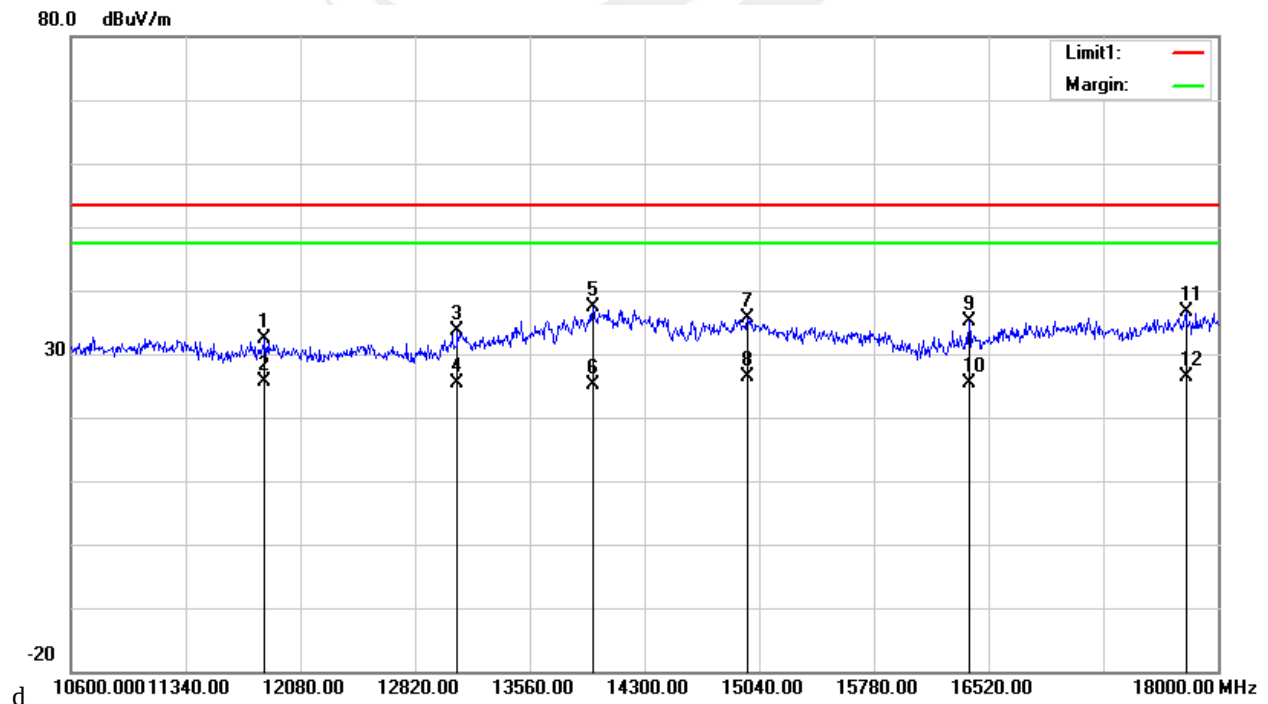


Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Horizontal
Test Mode:	CH 1 (10600MHz – 18000MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11850.600	26.30	5.98	32.28	53.44	-21.16	peak
2	11850.600	19.64	5.98	25.62	53.44	-27.82	RMS
3	13093.800	26.51	7.13	33.64	53.44	-19.80	peak
4	13093.800	18.35	7.13	25.48	53.44	-27.96	RMS
5	13967.000	25.17	12.14	37.31	53.44	-16.13	peak
6	13967.000	13.02	12.14	25.16	53.44	-28.28	RMS
7	14966.000	25.36	10.15	35.51	53.44	-17.93	peak
8	14966.000	16.22	10.15	26.37	53.44	-27.07	RMS
9	16394.200	26.46	8.72	35.18	53.44	-18.26	peak
10	16394.200	16.56	8.72	25.28	53.44	-28.16	RMS
11	17792.800	25.08	11.47	36.55	53.44	-16.89	peak
12	17792.800	14.85	11.47	26.32	53.44	-27.12	RMS

Remark:

1. $\text{Margin} = \text{Result} (\text{Result} = \text{Reading} + \text{Factor}) - \text{Limit}$
2. $\text{Factor} = \text{Antenna factor} + \text{Cable attenuation factor} (\text{cable loss}) - \text{Amplifier gain}$





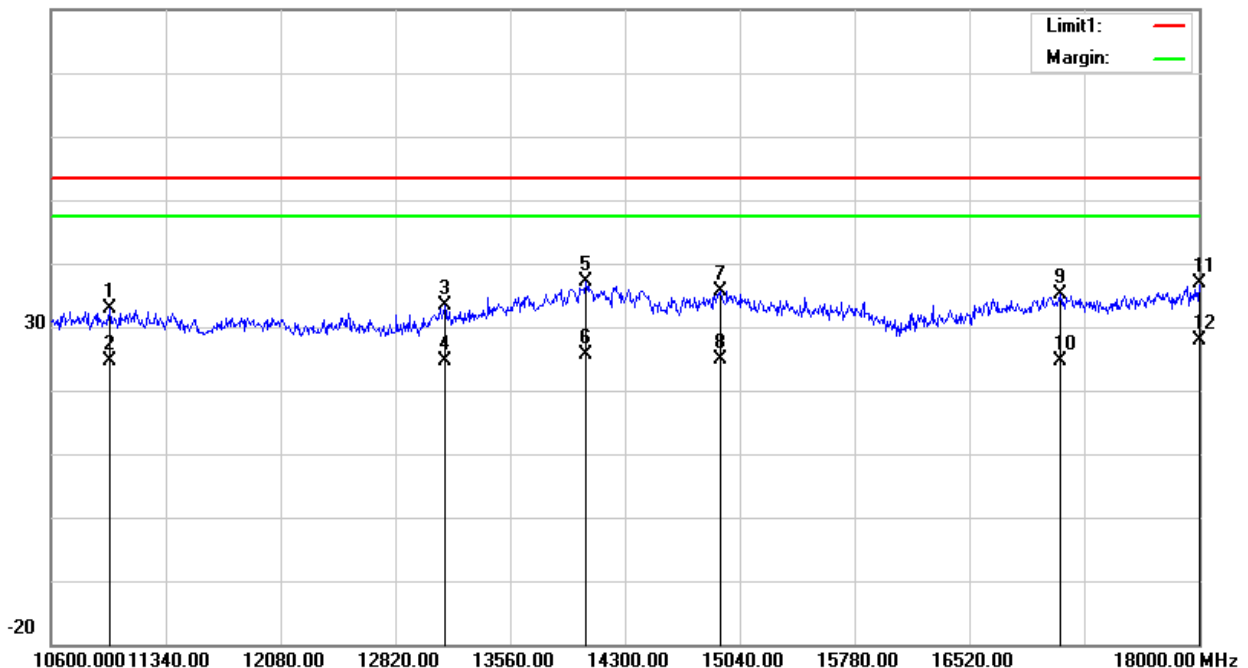
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	CH 1 (10600MHz – 18000MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10977.400	26.74	6.23	32.97	53.44	-20.47	peak
2	10977.400	18.39	6.23	24.62	53.44	-28.82	RMS
3	13138.200	25.93	7.41	33.34	53.44	-20.10	peak
4	13138.200	17.34	7.41	24.75	53.44	-28.69	RMS
5	14048.400	24.91	12.23	37.14	53.44	-16.30	peak
6	14048.400	13.40	12.23	25.63	53.44	-27.81	RMS
7	14914.200	25.42	10.29	35.71	53.44	-17.73	peak
8	14914.200	14.52	10.29	24.81	53.44	-28.63	RMS
9	17104.600	25.15	9.99	35.14	53.44	-18.30	peak
10	17104.600	14.74	9.99	24.73	53.44	-28.71	RMS
11	18000.000	24.70	12.06	36.76	53.44	-16.68	peak
12	18000.000	15.75	12.06	27.81	53.44	-25.63	RMS

Remark:

1. Margin = Result (Result = Reading + Factor) – Limit
2. Factor = Antenna factor + Cable attenuation factor (cable loss) – Amplifier gain

80.0 dBuV/m





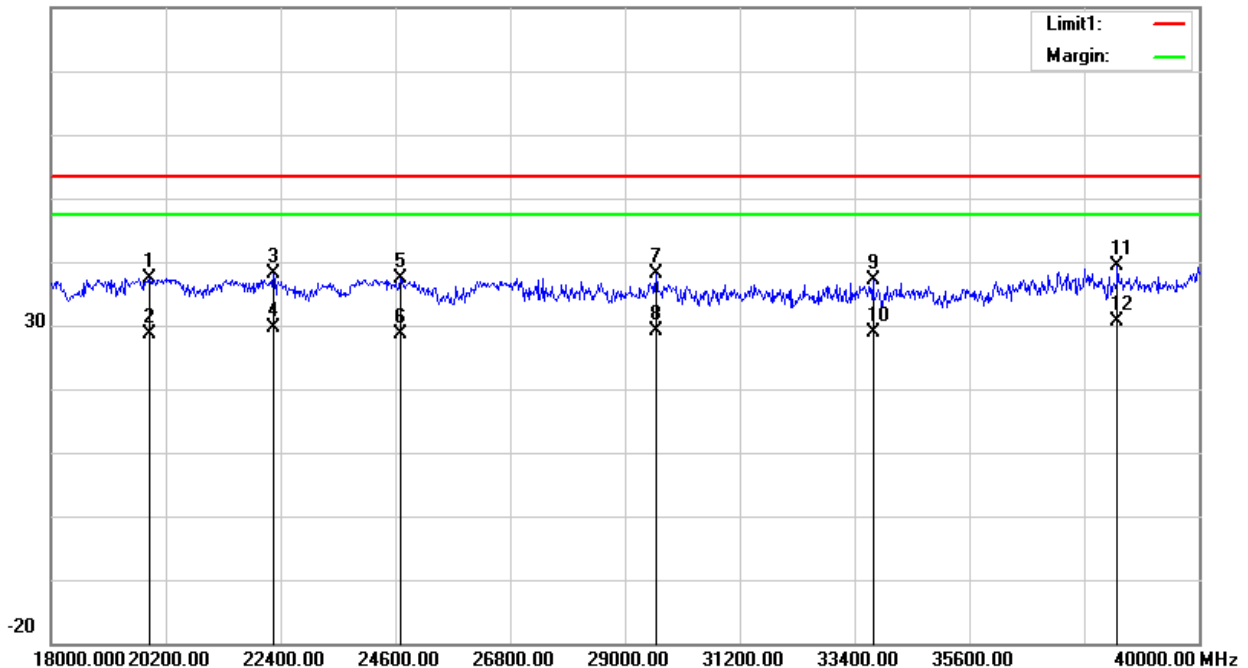
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Horizontal
Test Mode:	CH 1 (18000MHz – 40000MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	19892.000	22.51	14.89	37.40	53.44	-16.04	peak
2	19892.000	13.74	14.89	28.63	53.44	-24.81	RMS
3	22268.000	26.96	11.29	38.25	53.44	-15.19	peak
4	22268.000	18.27	11.29	29.56	53.44	-23.88	RMS
5	24688.000	20.62	16.71	37.33	53.44	-16.11	peak
6	24688.000	11.83	16.71	28.54	53.44	-24.90	RMS
7	29594.000	-0.35	38.41	38.06	53.44	-15.38	peak
8	29594.000	-9.24	38.41	29.17	53.44	-24.27	RMS
9	33752.000	-0.55	37.64	37.09	53.44	-16.35	peak
10	33752.000	-8.81	37.64	28.83	53.44	-24.61	RMS
11	38438.000	0.93	38.53	39.46	53.44	-13.98	peak
12	38438.000	-7.81	38.53	30.72	53.44	-22.72	RMS

Remark:

1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain

80.0 dBuV/m





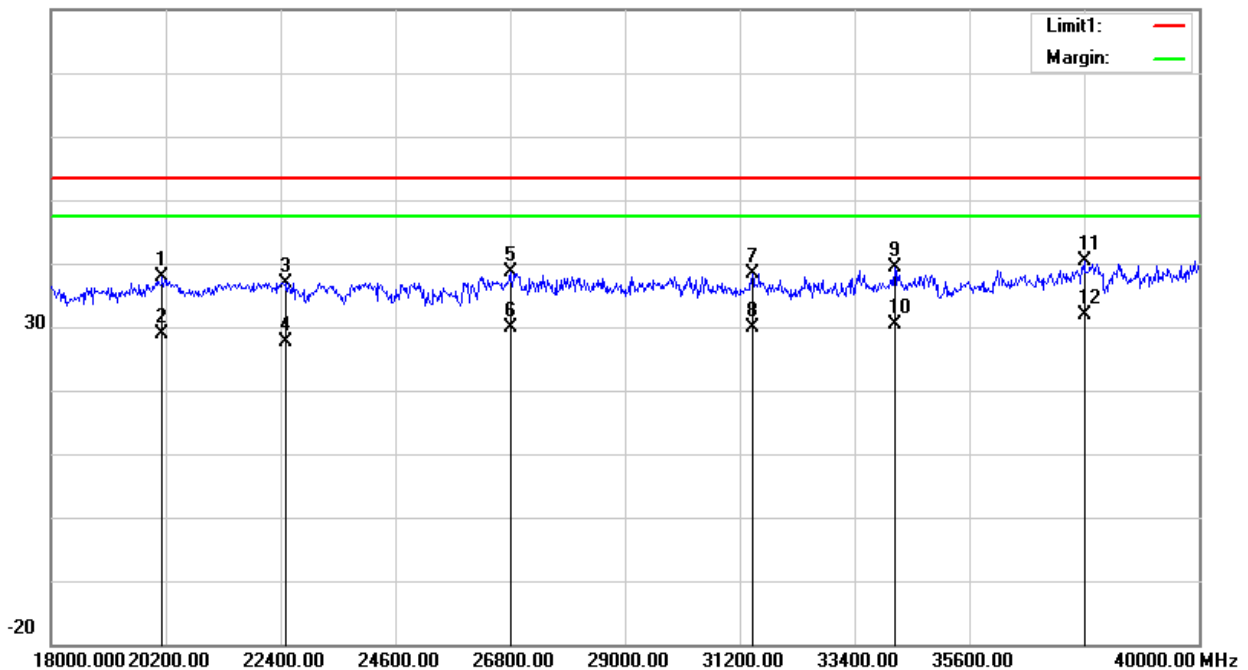
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	CH 1 (18000MHz – 40000MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	20134.000	24.25	13.68	37.93	53.44	-15.51	peak
2	20134.000	15.16	13.68	28.84	53.44	-24.60	RMS
3	22488.000	25.17	11.80	36.97	53.44	-16.47	peak
4	22488.000	15.85	11.80	27.65	53.44	-25.79	RMS
5	26800.000	-1.84	40.50	38.66	53.44	-14.78	peak
6	26800.000	-10.69	40.50	29.81	53.44	-23.63	RMS
7	31442.000	0.87	37.56	38.43	53.44	-15.01	peak
8	31442.000	-7.63	37.56	29.93	53.44	-23.51	RMS
9	34170.000	0.64	38.64	39.28	53.44	-14.16	peak
10	34170.000	-8.26	38.64	30.38	53.44	-23.06	RMS
11	37800.000	1.93	38.47	40.40	53.44	-13.04	peak
12	37800.000	-6.53	38.47	31.94	53.44	-21.50	RMS

Remark:

1. $\text{Margin} = \text{Result} (\text{Result} = \text{Reading} + \text{Factor}) - \text{Limit}$
2. $\text{Factor} = \text{Antenna factor} + \text{Cable attenuation factor (cable loss)} - \text{Amplifier gain}$

80.0 dBuV/m





IC:

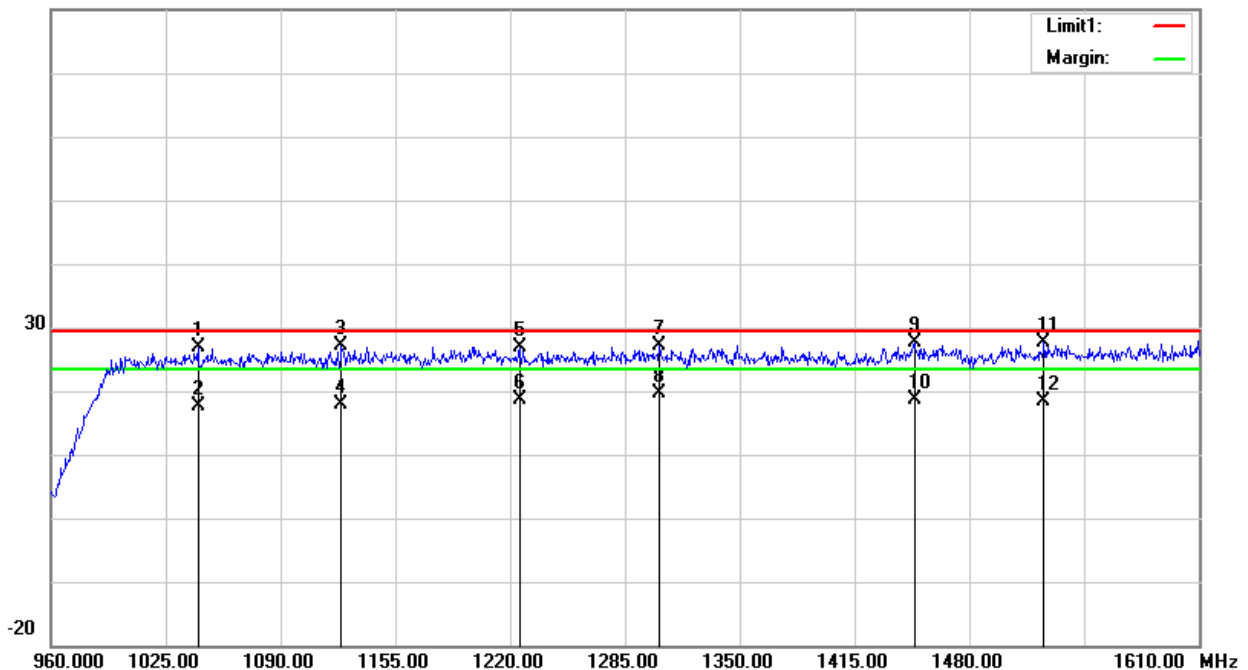
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Horizontal
Test Mode:	CH 1(960MHz -1610MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1043.200	28.35	-1.40	26.95	29.44	-2.49	peak
2	1043.200	18.98	-1.40	17.58	29.44	-11.86	RMS
3	1124.450	28.08	-1.00	27.08	29.44	-2.36	peak
4	1124.450	18.86	-1.00	17.86	29.44	-11.58	RMS
5	1225.200	27.45	-0.47	26.98	29.44	-2.46	peak
6	1225.200	19.00	-0.47	18.53	29.44	-10.91	RMS
7	1304.500	27.35	-0.12	27.23	29.44	-2.21	peak
8	1304.500	19.74	-0.12	19.62	29.44	-9.82	RMS
9	1448.800	26.66	0.87	27.53	29.44	-1.91	peak
10	1448.800	17.82	0.87	18.69	29.44	-10.75	RMS
11	1522.250	25.54	2.01	27.55	29.44	-1.89	peak
12	1522.250	16.36	2.01	18.37	29.44	-11.07	RMS

Remark:

1. Margin = Result (Result =Reading + Factor)-Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain

80.0 dBuV/m





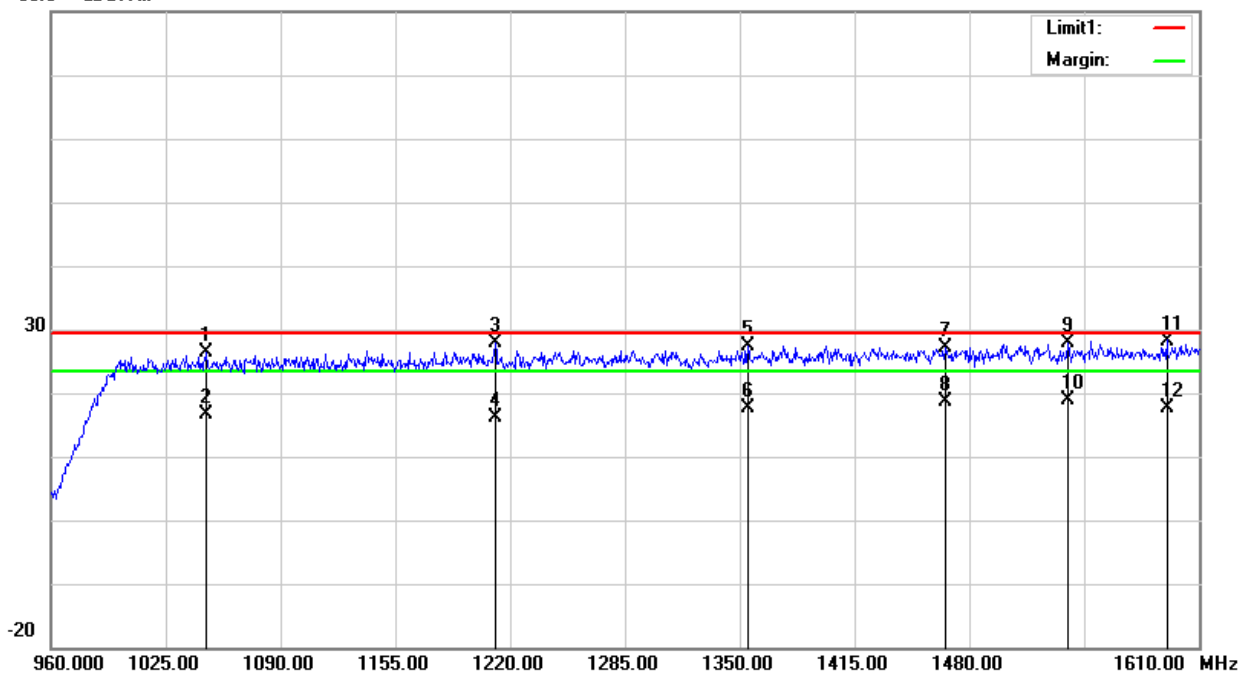
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	CH 1(960MHz -1610MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1047.750	27.89	-1.39	26.50	29.44	-2.94	peak
2	1047.750	17.93	-1.39	16.54	29.44	-12.90	RMS
3	1211.550	28.43	-0.44	27.99	29.44	-1.45	peak
4	1211.550	16.61	-0.44	16.17	29.44	-13.27	RMS
5	1354.550	27.40	0.08	27.48	29.44	-1.96	peak
6	1354.550	17.45	0.08	17.53	29.44	-11.91	RMS
7	1466.350	25.93	1.08	27.01	29.44	-2.43	peak
8	1466.350	17.56	1.08	18.64	29.44	-10.80	RMS
9	1535.900	25.66	2.33	27.99	29.44	-1.45	peak
10	1535.900	16.56	2.33	18.89	29.44	-10.55	RMS
11	1591.800	24.27	3.98	28.25	29.44	-1.19	peak
12	1591.800	13.75	3.98	17.73	29.44	-11.71	RMS

Remark:

1. $\text{Margin} = \text{Result} (\text{Result} = \text{Reading} + \text{Factor}) - \text{Limit}$
2. $\text{Factor} = \text{Antenna factor} + \text{Cable attenuation factor}(\text{cable loss}) - \text{Amplifier gain}$

80.0 dBuV/m





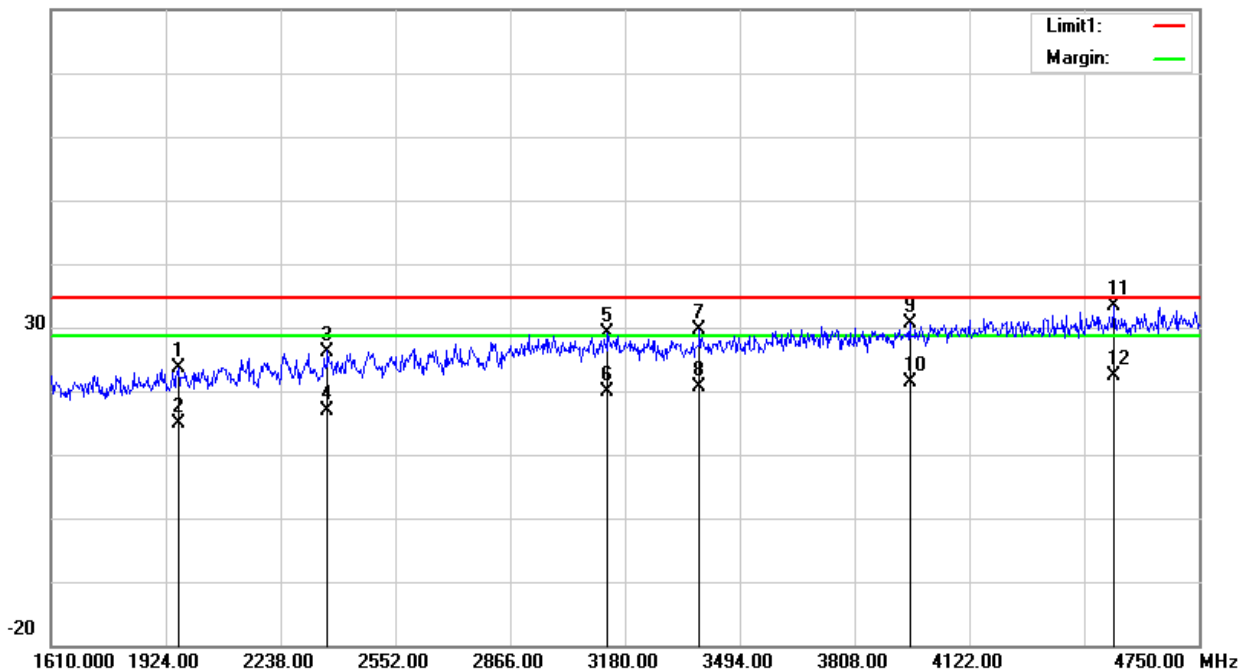
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Horizontal
Test Mode:	CH 1(1610MHz – 4750MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1958.540	40.35	-16.73	23.62	34.74	-11.12	peak
2	1958.540	31.55	-16.73	14.82	34.74	-19.92	RMS
3	2366.740	40.91	-14.66	26.25	34.74	-8.49	peak
4	2366.740	31.53	-14.66	16.87	34.74	-17.87	RMS
5	3132.900	41.42	-12.32	29.10	34.74	-5.64	peak
6	3132.900	32.10	-12.32	19.78	34.74	-14.96	RMS
7	3384.100	41.31	-11.67	29.64	34.74	-5.10	peak
8	3384.100	32.28	-11.67	20.61	34.74	-14.13	RMS
9	3958.720	40.54	-9.86	30.68	34.74	-4.06	peak
10	3958.720	31.16	-9.86	21.30	34.74	-13.44	RMS
11	4517.640	41.22	-7.93	33.29	34.74	-1.45	peak
12	4517.640	30.39	-7.93	22.46	34.74	-12.28	RMS

Remark:

1. $\text{Margin} = \text{Result} (\text{Result} = \text{Reading} + \text{Factor}) - \text{Limit}$
2. $\text{Factor} = \text{Antenna factor} + \text{Cable attenuation factor}(\text{cable loss}) - \text{Amplifier gain}$

80.0 dBuV/m





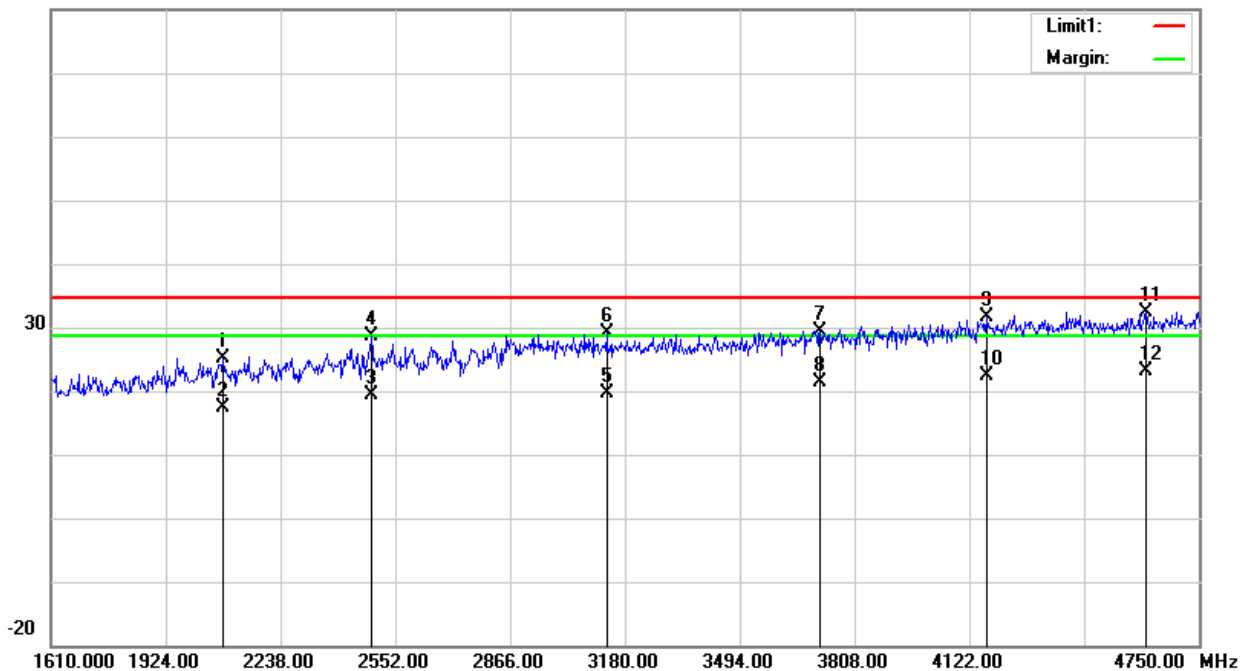
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	CH 1(1610MHz – 4750MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2081.000	41.28	-16.09	25.19	34.74	-9.55	peak
2	2081.000	33.48	-16.09	17.39	34.74	-17.35	RMS
3	2486.060	33.20	-13.93	19.27	34.74	-15.47	peak
4	2486.060	42.64	-13.93	28.71	34.74	-6.03	RMS
5	3129.760	31.90	-12.32	19.58	34.74	-15.16	peak
6	3129.760	41.40	-12.32	29.08	34.74	-5.66	RMS
7	3713.800	40.00	-10.57	29.43	34.74	-5.31	peak
8	3713.800	31.99	-10.57	21.42	34.74	-13.32	RMS
9	4169.100	40.25	-8.66	31.59	34.74	-3.15	peak
10	4169.100	30.97	-8.66	22.31	34.74	-12.43	RMS
11	4605.560	40.22	-7.84	32.38	34.74	-2.36	peak
12	4605.560	30.91	-7.84	23.07	34.74	-11.67	RMS

Remark:

1. $\text{Margin} = \text{Result} (\text{Result} = \text{Reading} + \text{Factor}) - \text{Limit}$
2. $\text{Factor} = \text{Antenna factor} + \text{Cable attenuation factor}(\text{cable loss}) - \text{Amplifier gain}$

80.0 dBuV/m





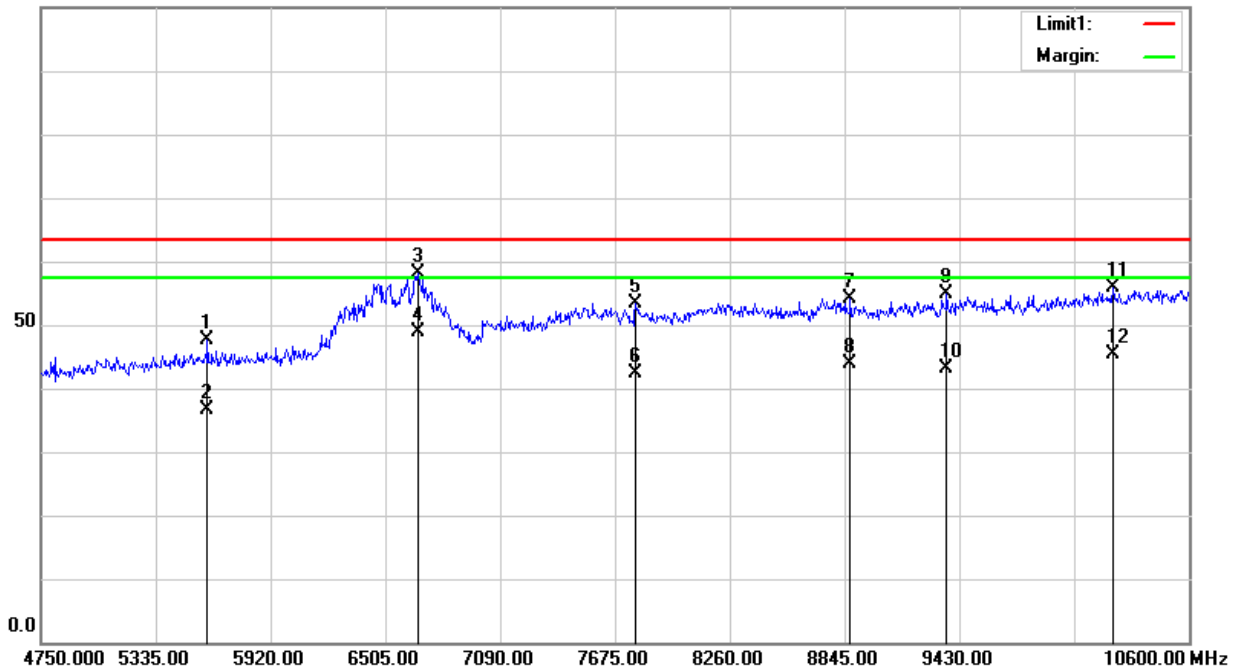
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Horizontal
Test Mode:	CH 1 (4750MHz – 10600MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5598.250	52.26	-4.70	47.56	63.44	-15.88	peak
2	5598.250	41.42	-4.70	36.72	63.44	-26.72	RMS
3	6668.800	59.49	-1.25	58.24	63.44	-5.20	peak
4	6668.800	50.20	-1.25	48.95	63.44	-14.49	RMS
5	7780.300	51.51	1.93	53.44	63.44	-10.00	peak
6	7780.300	40.38	1.93	42.31	63.44	-21.13	RMS
7	8874.250	51.57	2.53	54.10	63.44	-9.34	peak
8	8874.250	41.30	2.53	43.83	63.44	-19.61	RMS
9	9365.650	51.80	2.96	54.76	63.44	-8.68	peak
10	9365.650	40.21	2.96	43.17	63.44	-20.27	RMS
11	10213.900	51.84	4.05	55.89	63.44	-7.55	peak
12	10213.900	41.45	4.05	45.50	63.44	-17.94	RMS

Remark:

1. Margin = Result (Result = Reading + Factor) – Limit
2. Factor = Antenna factor + Cable attenuation factor (cable loss) – Amplifier gain

100.0 dBuV/m





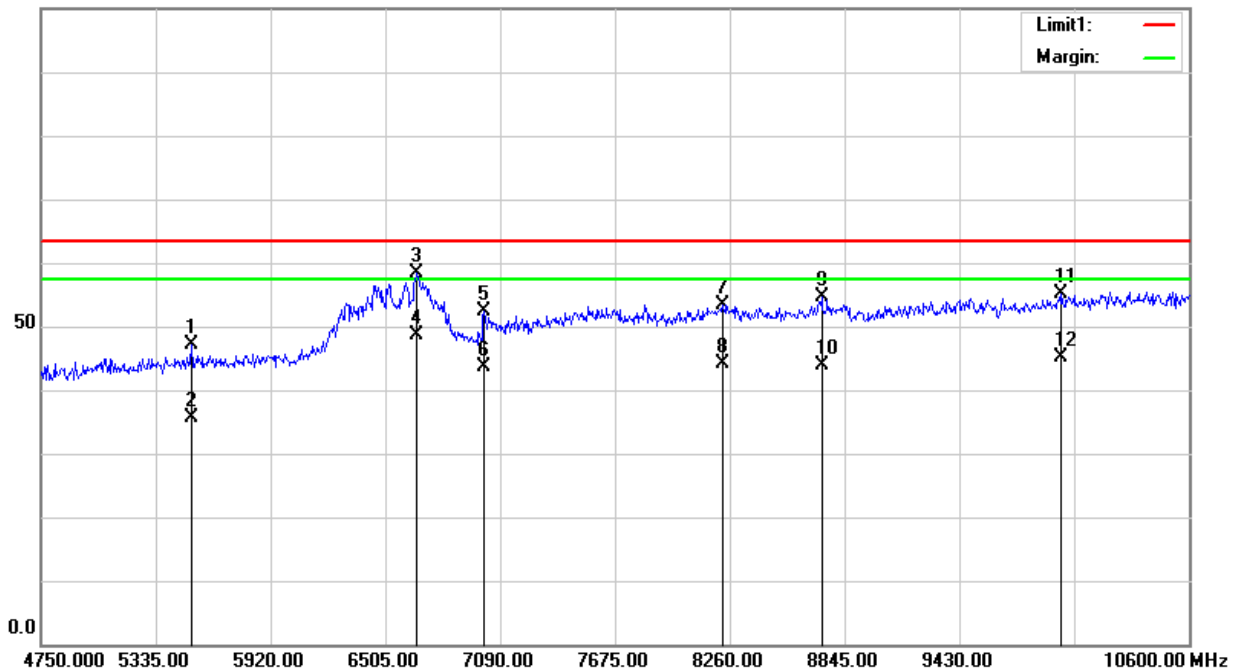
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	CH 1 (4750MHz – 10600MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5516.350	51.98	-4.96	47.02	63.44	-16.42	peak
2	5516.350	40.57	-4.96	35.61	63.44	-27.83	RMS
3	6662.950	59.70	-1.29	58.41	63.44	-5.03	peak
4	6662.950	50.04	-1.29	48.75	63.44	-14.69	RMS
5	7008.100	52.45	-0.17	52.28	63.44	-11.16	peak
6	7008.100	43.84	-0.17	43.67	63.44	-19.77	RMS
7	8224.900	51.03	2.42	53.45	63.44	-9.99	peak
8	8224.900	41.70	2.42	44.12	63.44	-19.32	RMS
9	8728.000	51.96	2.60	54.56	63.44	-8.88	peak
10	8728.000	41.22	2.60	43.82	63.44	-19.62	RMS
11	9950.650	51.88	3.34	55.22	63.44	-8.22	peak
12	9950.650	41.67	3.34	45.01	63.44	-18.43	RMS

Remark:

1. Margin = Result (Result = Reading + Factor) – Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain

100.0 dBuV/m





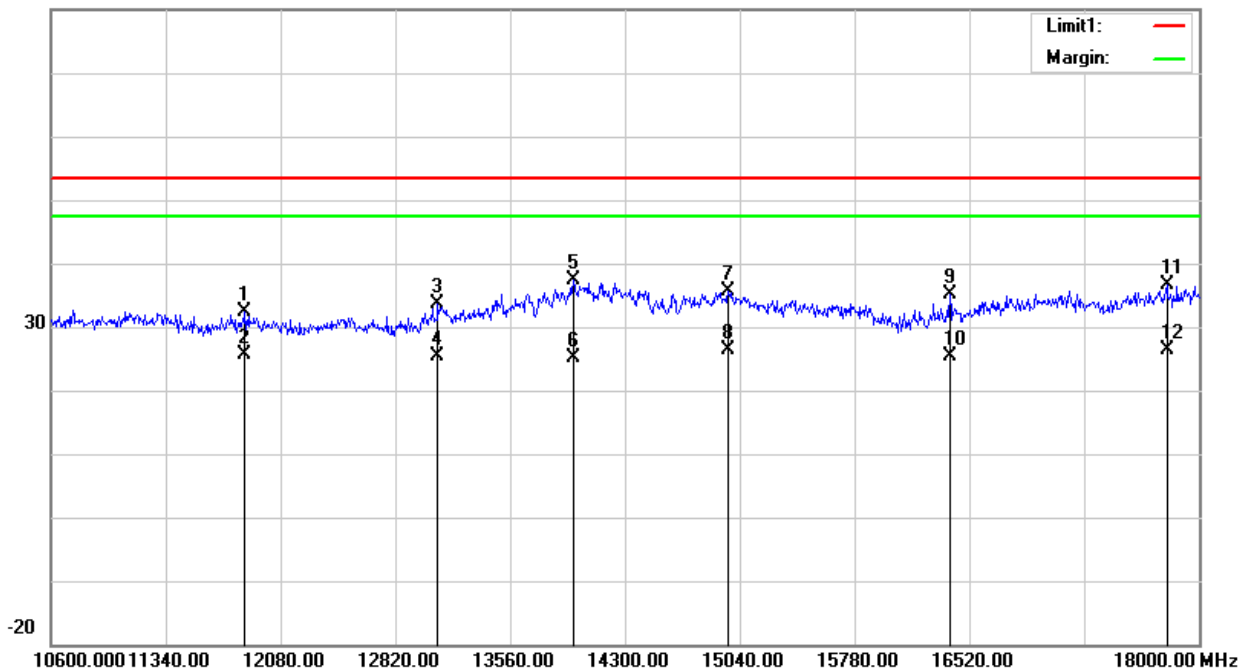
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Horizontal
Test Mode:	CH 1 (10600MHz – 18000MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11850.600	26.30	5.98	32.28	53.44	-21.16	peak
2	11850.600	19.64	5.98	25.62	53.44	-27.82	RMS
3	13093.800	26.51	7.13	33.64	53.44	-19.80	peak
4	13093.800	18.35	7.13	25.48	53.44	-27.96	RMS
5	13967.000	25.17	12.14	37.31	53.44	-16.13	peak
6	13967.000	13.02	12.14	25.16	53.44	-28.28	RMS
7	14966.000	25.36	10.15	35.51	53.44	-17.93	peak
8	14966.000	16.22	10.15	26.37	53.44	-27.07	RMS
9	16394.200	26.46	8.72	35.18	53.44	-18.26	peak
10	16394.200	16.56	8.72	25.28	53.44	-28.16	RMS
11	17792.800	25.08	11.47	36.55	53.44	-16.89	peak
12	17792.800	14.85	11.47	26.32	53.44	-27.12	RMS

Remark:

1. $\text{Margin} = \text{Result} (\text{Result} = \text{Reading} + \text{Factor}) - \text{Limit}$
2. $\text{Factor} = \text{Antenna factor} + \text{Cable attenuation factor} (\text{cable loss}) - \text{Amplifier gain}$

80.0 dBuV/m





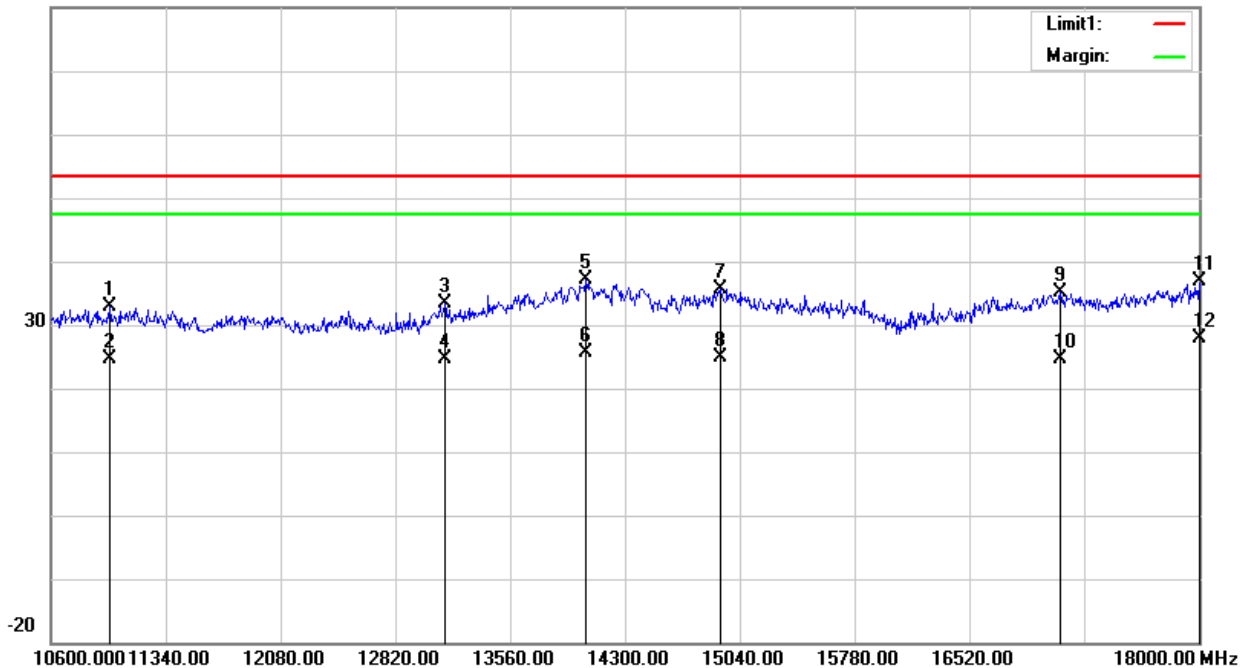
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	CH 1 (10600MHz – 18000MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10977.400	26.74	6.23	32.97	53.44	-20.47	peak
2	10977.400	18.39	6.23	24.62	53.44	-28.82	RMS
3	13138.200	25.93	7.41	33.34	53.44	-20.10	peak
4	13138.200	17.34	7.41	24.75	53.44	-28.69	RMS
5	14048.400	24.91	12.23	37.14	53.44	-16.30	peak
6	14048.400	13.40	12.23	25.63	53.44	-27.81	RMS
7	14914.200	25.42	10.29	35.71	53.44	-17.73	peak
8	14914.200	14.52	10.29	24.81	53.44	-28.63	RMS
9	17104.600	25.15	9.99	35.14	53.44	-18.30	peak
10	17104.600	14.74	9.99	24.73	53.44	-28.71	RMS
11	18000.000	24.70	12.06	36.76	53.44	-16.68	peak
12	18000.000	15.75	12.06	27.81	53.44	-25.63	RMS

Remark:

1. Margin = Result (Result = Reading + Factor) – Limit
2. Factor = Antenna factor + Cable attenuation factor (cable loss) – Amplifier gain

80.0 dBuV/m





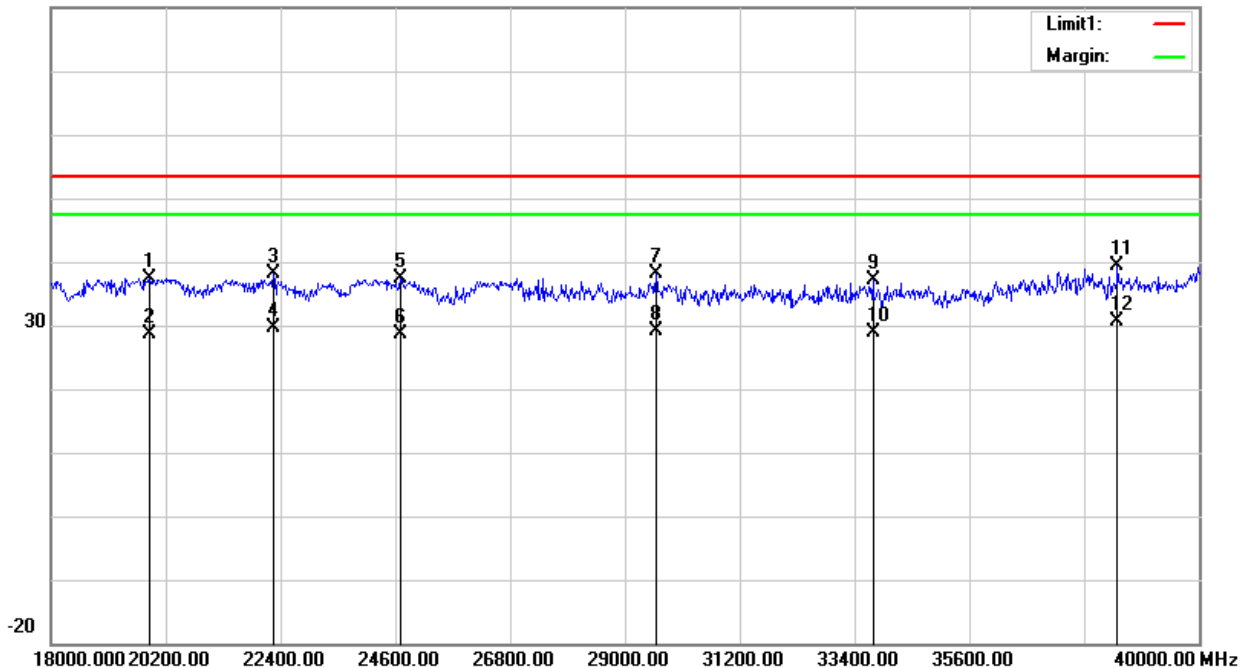
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Horizontal
Test Mode:	CH 1 (18000MHz – 40000MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	19892.000	22.51	14.89	37.40	53.44	-16.04	peak
2	19892.000	13.74	14.89	28.63	53.44	-24.81	RMS
3	22268.000	26.96	11.29	38.25	53.44	-15.19	peak
4	22268.000	18.27	11.29	29.56	53.44	-23.88	RMS
5	24688.000	20.62	16.71	37.33	53.44	-16.11	peak
6	24688.000	11.83	16.71	28.54	53.44	-24.90	RMS
7	29594.000	-0.35	38.41	38.06	53.44	-15.38	peak
8	29594.000	-9.24	38.41	29.17	53.44	-24.27	RMS
9	33752.000	-0.55	37.64	37.09	53.44	-16.35	peak
10	33752.000	-8.81	37.64	28.83	53.44	-24.61	RMS
11	38438.000	0.93	38.53	39.46	53.44	-13.98	peak
12	38438.000	-7.81	38.53	30.72	53.44	-22.72	RMS

Remark:

1. Margin = Result (Result =Reading + Factor)–Limit
2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain

80.0 dBuV/m





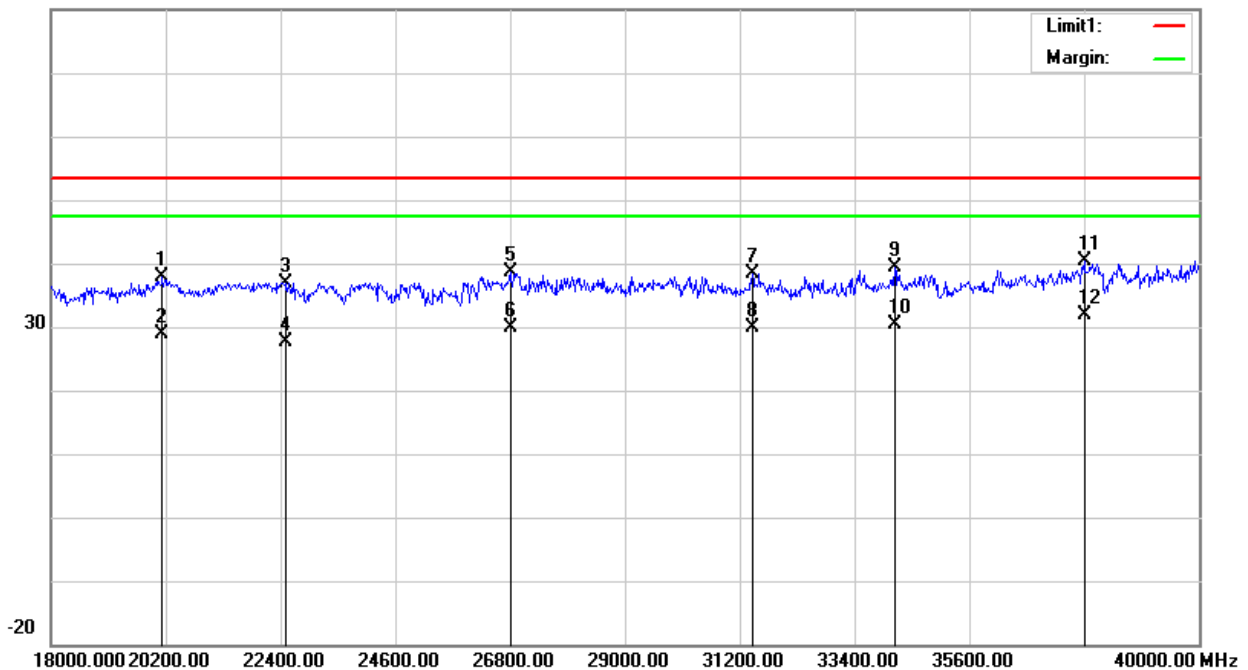
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	CH 1 (18000MHz – 40000MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	20134.000	24.25	13.68	37.93	53.44	-15.51	peak
2	20134.000	15.16	13.68	28.84	53.44	-24.60	RMS
3	22488.000	25.17	11.80	36.97	53.44	-16.47	peak
4	22488.000	15.85	11.80	27.65	53.44	-25.79	RMS
5	26800.000	-1.84	40.50	38.66	53.44	-14.78	peak
6	26800.000	-10.69	40.50	29.81	53.44	-23.63	RMS
7	31442.000	0.87	37.56	38.43	53.44	-15.01	peak
8	31442.000	-7.63	37.56	29.93	53.44	-23.51	RMS
9	34170.000	0.64	38.64	39.28	53.44	-14.16	peak
10	34170.000	-8.26	38.64	30.38	53.44	-23.06	RMS
11	37800.000	1.93	38.47	40.40	53.44	-13.04	peak
12	37800.000	-6.53	38.47	31.94	53.44	-21.50	RMS

Remark:

1. $\text{Margin} = \text{Result} (\text{Result} = \text{Reading} + \text{Factor}) - \text{Limit}$
2. $\text{Factor} = \text{Antenna factor} + \text{Cable attenuation factor (cable loss)} - \text{Amplifier gain}$

80.0 dBuV/m





3.3 RADIATED EMISSION MEASUREMENT (FOR 15.517(d)&RSS 220 5.2.1(e))

3.3.1 RADIATED EMISSION LIMITS

Frequency of Emission (MHz)	EIRP (dBm)	Field Strength (dBuV/m@3m)	Field Strength (dBuV/m@1m)
1164~1240	-85.3	10	19.54
1559~1610	-85.3	10	19.54

Notes: 1. Transfer rules follow 15.521(g),15.31(f)(1).

2. 15.521(g) converted to a peak field strength level at 3 meters using $E(\text{dBuV/m}) = P(\text{dBmEIRP}) + 95.2$.

3. $\text{dBuV/m@1m} = \text{dBuV/m@3m} + 20 \cdot \log(3/1)$

UWB transmitters operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of no less than 1 kHz:

Frequency Range	RBW	VBW	Detector	Measurement Distance
1164~1240	1kHz	3kHz	RMS	1 Meter
1559~1610	1kHz	3kHz	RMS	1 Meter

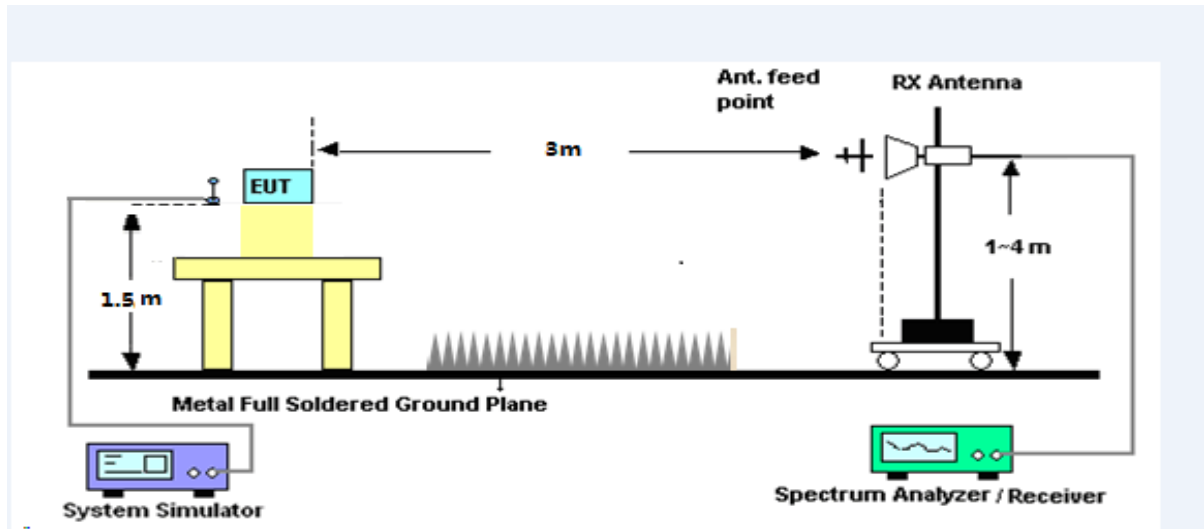
3.3.2 TEST PROCEDURE

- The measuring distance of 1m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the test antenna shall vary between 1m to 4m. Both horizontal and vertical polarization of the antenna are set to make the measurement.
- All readings are RMS mode value, for each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
(Above 960MHz)
- For the actual test configuration, please refer to the related Item –EUT Test Photos.
Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

3.3.3 DEVIATION FROM TEST STANDARD

No deviation

3.3.4 TEST SETUP

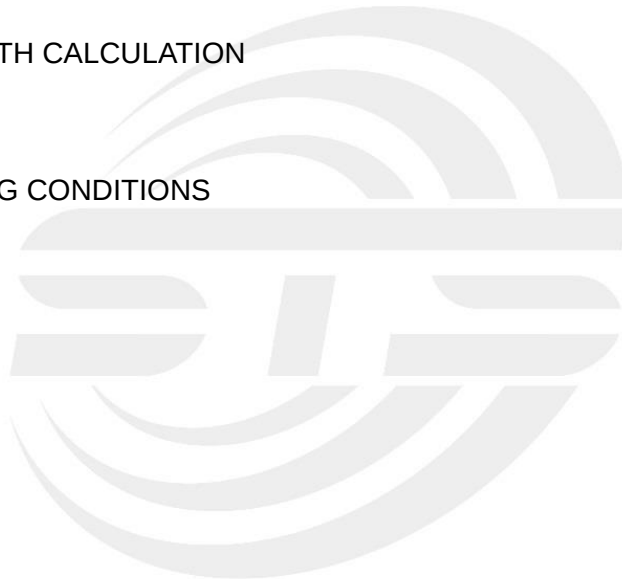


3.3.5 FIELD STRENGTH CALCULATION

Same as 3.2.5

3.3.6 EUT OPERATING CONDITIONS

Same as 3.2.6





3.3.7 TEST RESULTS

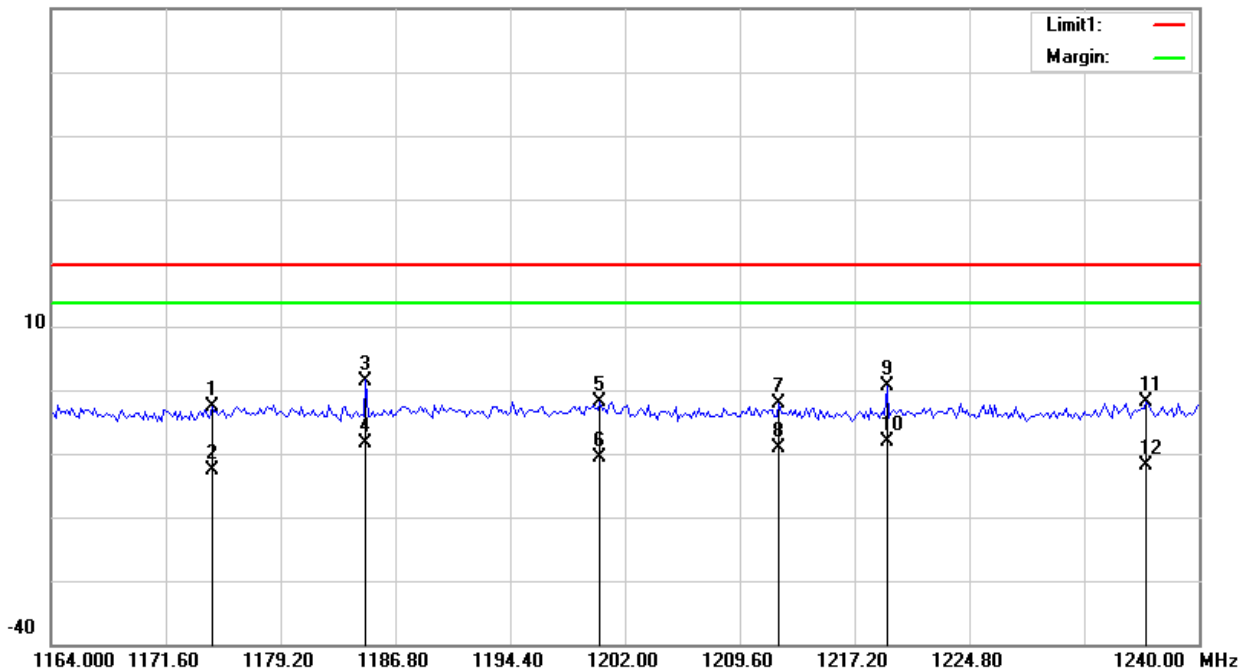
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Horizontal
Test Mode:	CH 1(1164Hz – 1240MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1174.640	-2.06	-0.67	-2.73	19.54	-22.27	peak
2	1174.640	-11.96	-0.67	-12.63	19.54	-32.17	RMS
3	1184.824	2.07	-0.57	1.50	19.54	-18.04	peak
4	1184.824	-7.77	-0.57	-8.34	19.54	-27.88	RMS
5	1200.328	-1.55	-0.42	-1.97	19.54	-21.51	peak
6	1200.328	-10.17	-0.42	-10.59	19.54	-30.13	RMS
7	1212.184	-1.78	-0.44	-2.22	19.54	-21.76	peak
8	1212.184	-8.62	-0.44	-9.06	19.54	-28.60	RMS
9	1219.328	1.11	-0.46	0.65	19.54	-18.89	peak
10	1219.328	-7.69	-0.46	-8.15	19.54	-27.69	RMS
11	1236.504	-1.43	-0.49	-1.92	19.54	-21.46	peak
12	1236.504	-11.34	-0.49	-11.83	19.54	-31.37	RMS

Remark:

1. Margin = Result (Result = Reading + Factor) – Limit
2. Factor = Antenna factor + Cable attenuation factor (cable loss) – Amplifier gain

60.0 dBuV/m





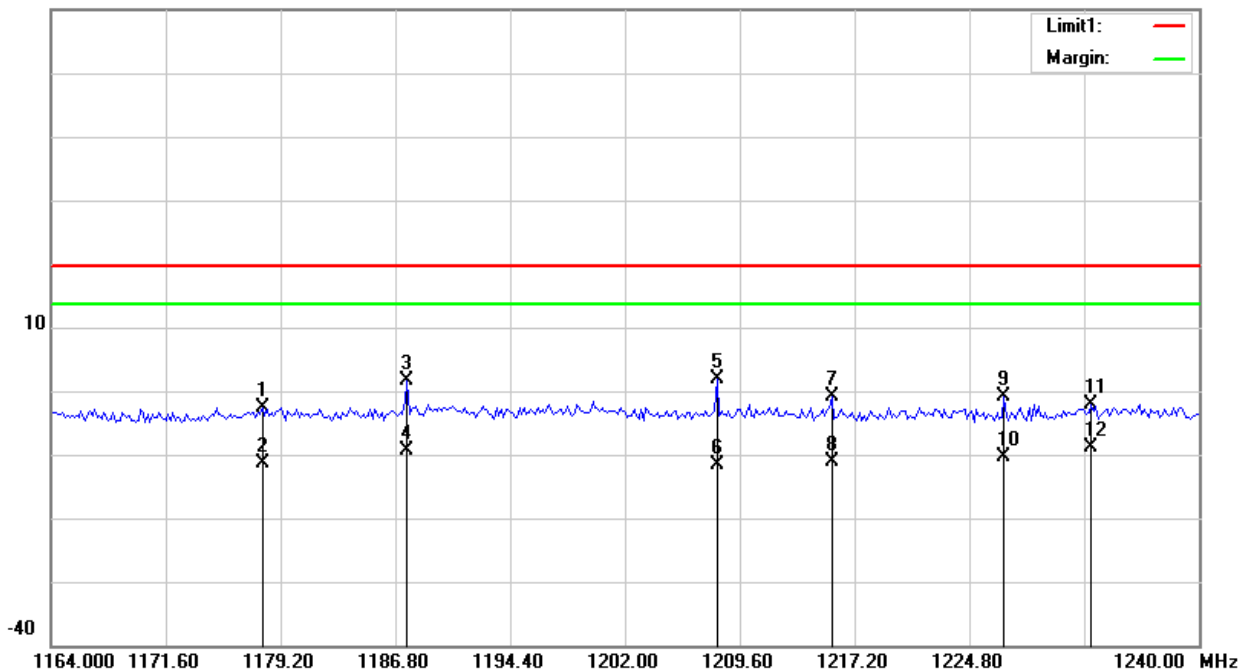
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	CH 1(1164Hz – 1240MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1177.984	-1.89	-0.64	-2.53	19.54	-22.07	peak
2	1177.984	-10.67	-0.64	-11.31	19.54	-30.85	RMS
3	1187.560	2.05	-0.54	1.51	19.54	-18.03	peak
4	1187.560	-8.88	-0.54	-9.42	19.54	-28.96	RMS
5	1208.080	2.33	-0.44	1.89	19.54	-17.65	peak
6	1208.080	-11.15	-0.44	-11.59	19.54	-31.13	RMS
7	1215.680	-0.47	-0.45	-0.92	19.54	-20.46	peak
8	1215.680	-10.79	-0.45	-11.24	19.54	-30.78	RMS
9	1227.080	-0.30	-0.47	-0.77	19.54	-20.31	peak
10	1227.080	-9.91	-0.47	-10.38	19.54	-29.92	RMS
11	1232.856	-1.69	-0.48	-2.17	19.54	-21.71	peak
12	1232.856	-8.48	-0.48	-8.96	19.54	-28.50	RMS

Remark:

1. $\text{Margin} = \text{Result} (\text{Result} = \text{Reading} + \text{Factor}) - \text{Limit}$
2. $\text{Factor} = \text{Antenna factor} + \text{Cable attenuation factor}(\text{cable loss}) - \text{Amplifier gain}$

60.0 dBuV/m





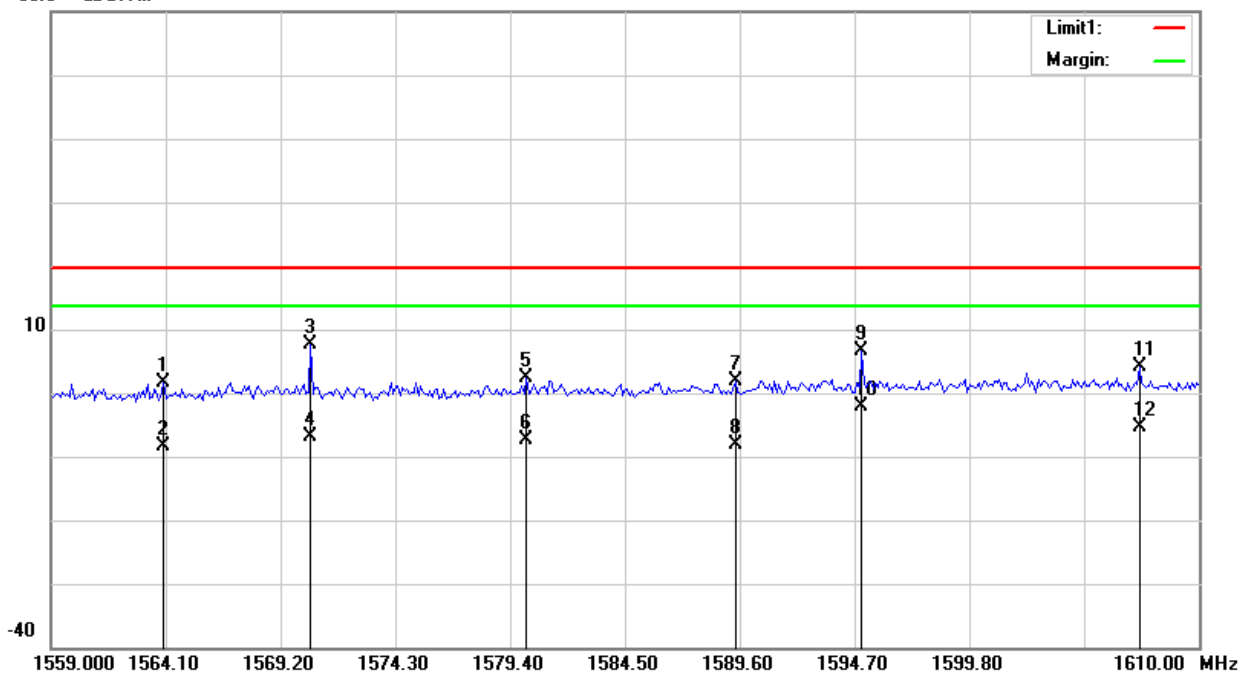
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Horizontal
Test Mode:	CH 1(1559Hz – 1610MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1563.998	-1.52	3.11	1.59	19.54	-17.95	peak
2	1563.998	-11.45	3.11	-8.34	19.54	-27.88	RMS
3	1570.526	4.22	3.32	7.54	19.54	-12.00	peak
4	1570.526	-10.24	3.32	-6.92	19.54	-26.46	RMS
5	1580.114	-1.17	3.62	2.45	19.54	-17.09	peak
6	1580.114	-11.00	3.62	-7.38	19.54	-26.92	RMS
7	1589.396	-2.04	3.91	1.87	19.54	-17.67	peak
8	1589.396	-12.11	3.91	-8.20	19.54	-27.74	RMS
9	1595.006	2.54	4.08	6.62	19.54	-12.92	peak
10	1595.006	-6.23	4.08	-2.15	19.54	-21.69	RMS
11	1607.348	-0.15	4.24	4.09	19.54	-15.45	peak
12	1607.348	-9.60	4.24	-5.36	19.54	-24.90	RMS

Remark:

1. $\text{Margin} = \text{Result} (\text{Result} = \text{Reading} + \text{Factor}) - \text{Limit}$
2. $\text{Factor} = \text{Antenna factor} + \text{Cable attenuation factor}(\text{cable loss}) - \text{Amplifier gain}$

60.0 dBuV/m





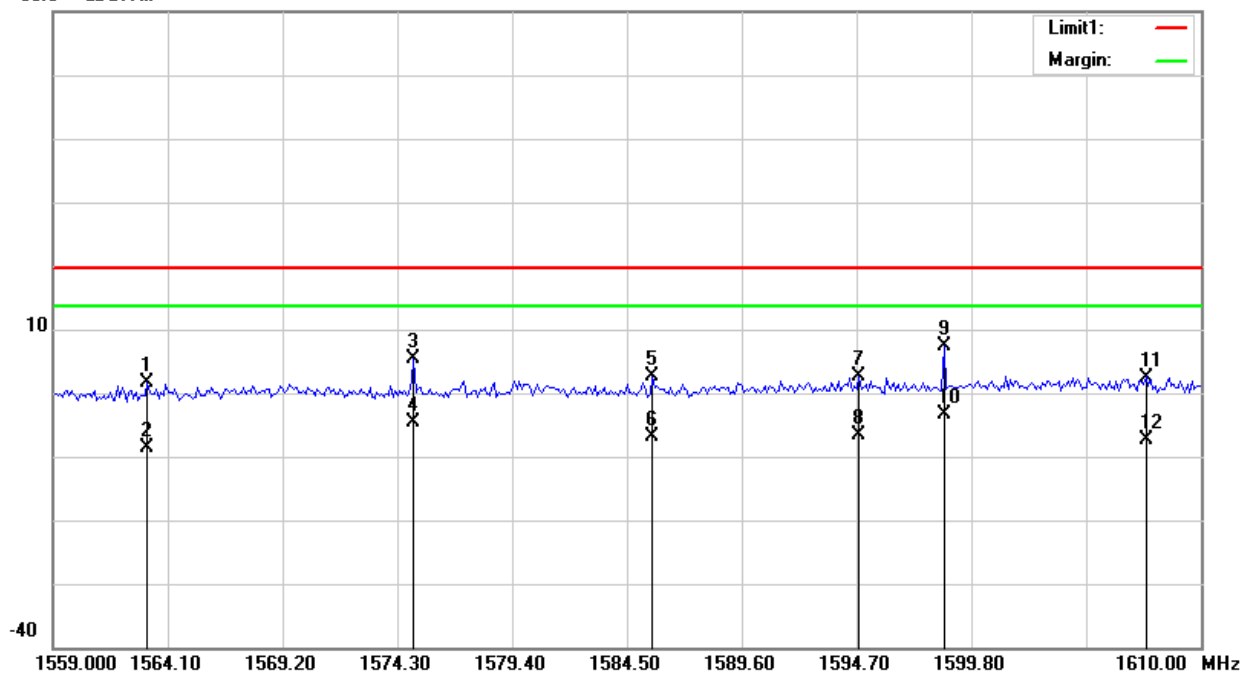
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	CH 1(1559Hz – 1610MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1563.182	-1.50	3.09	1.59	19.54	-17.95	peak
2	1563.182	-11.59	3.09	-8.50	19.54	-28.04	RMS
3	1575.014	2.01	3.45	5.46	19.54	-14.08	peak
4	1575.014	-8.17	3.45	-4.72	19.54	-24.26	RMS
5	1585.622	-1.23	3.78	2.55	19.54	-16.99	peak
6	1585.622	-10.68	3.78	-6.90	19.54	-26.44	RMS
7	1594.802	-1.45	4.08	2.63	19.54	-16.91	peak
8	1594.802	-10.79	4.08	-6.71	19.54	-26.25	RMS
9	1598.576	3.15	4.19	7.34	19.54	-12.20	peak
10	1598.576	-7.55	4.19	-3.36	19.54	-22.90	RMS
11	1607.552	-1.74	4.24	2.50	19.54	-17.04	peak
12	1607.552	-11.62	4.24	-7.38	19.54	-26.92	RMS

Remark:

1. Margin = Result (Result = Reading + Factor) – Limit
2. Factor = Antenna factor + Cable attenuation factor (cable loss) – Amplifier gain

60.0 dBuV/m



4. UWB BANDWIDTH AND 99% BANDWIDTH

4.1 LIMITS OF UWB BANDWIDTH MEASUREMENT

The UWB bandwidth of a UWB system operating under the provisions of this section must be contained between 3100 MHz and 10,600 MHz.

At any point in time, has a fractional bandwidth equal to or greater than 0.20 or has a UWB bandwidth equal to or greater than 500 MHz, regardless of the fractional bandwidth.

The 99% bandwidth for reporting purposes only.

4.2 INSTRUMENT SETUP VALUE AND MEASUREMENT DISTANCE

Frequency Range	RBW	VBW	Detector	Measurement Distance
3100~10600	1MHz	1MHz	PEAK	1 Meter

4.3 TEST PROCEDURE

- The measuring distance of 1m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the test antenna shall vary between 1m to 4m. Both horizontal and vertical polarization of the antenna are set to make the measurement.
- All readings are RMS mode value, for each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.
- The Spectrum Analyzer system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- The UWB Bandwidth is measured at the 10 dB point (FL, FH).

Note: Both horizontal and vertical antenna polarities were tested. The worst case emissions were reported.

99% Bandwidth connect the UUT to the spectrum analyser and use the following settings:

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	1% to 5% of the occupied bandwidth
VBW	approximately 3×RBW
Trace	Max hold
Sweep	Auto

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 6 dB and 99% relative to the maximum level measured in the fundamental emission.

4.4 TEST SETUP

Same as 3.3.4

4.5 EUT OPERATION CONDITIONS

Same as 3.2.6

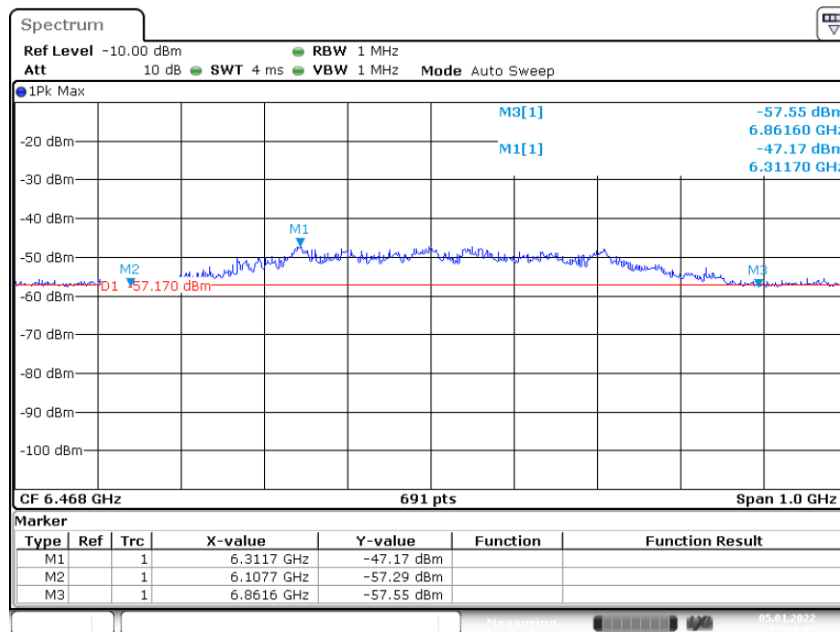


4.6 TEST RESULTS

Temperature:	25 °C	Relative Humidity:	50%
Test Voltage:	DC 3.7V		

Test Channel	f _M (MHz)	f _L (MHz)	f _H (MHz)	-10dB Bandwidth (MHz)	f _C (MHz)	Fractional Bandwidth (MHz)	Limit	Result
CH1	6311.7	6107.7	6861.6	753.9	6484.7	0.12	-10dB Bandwidth ≥ 500MHz or Fractional Bandwidth ≥ 0.2	Pass

CH 1



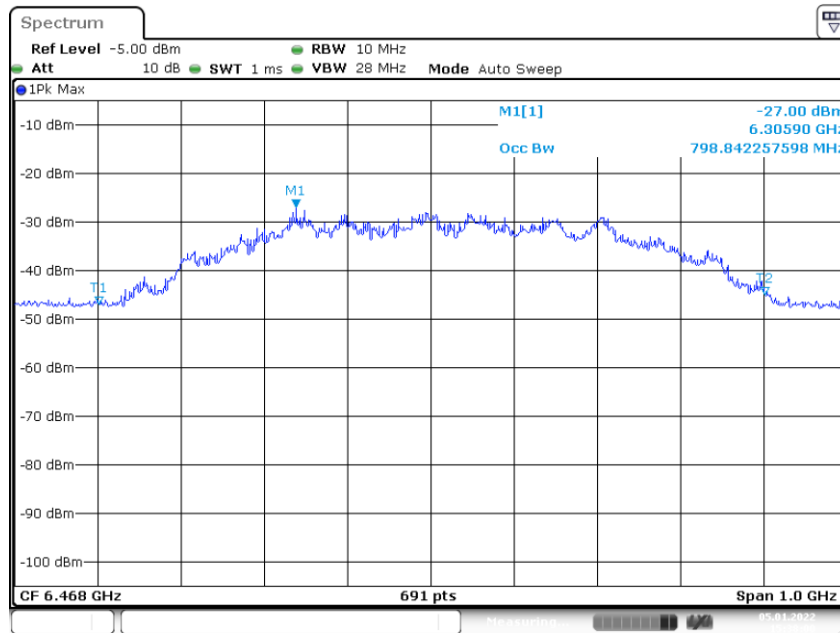
Date: 5.JAN.2022 15:08:02



Temperature:	25 °C	Relative Humidity:	50%
Test Voltage:	DC 3.7V		

Frequency (MHz)	99% Bandwidth (MHz)	Result
6468	798.84	PASS

CH 1



Date: 5.JAN.2022 15:38:00



5 PEAK EMISSION WITHIN A 50MHZ BANDWIDTH (FOR 15.517(e) & RSS-220

5.2.1(g))

5.1 LIMITS OF PEAK EMISSION

The Maximum Peak Output Power Measurement is 0dBm(RBW=50MHz).

If a resolution bandwidth other than 50 MHz is Employed, the peak EIRP limit shall be $20 \log (RBW/50)$ dBm where RBW is the resolution bandwidth in megahertz that is employed. The resolution bandwidth used to make the peak measurement was 1MHz, resulting in a limit of -34dBm.

This may be converted to a peak field strength level at 3 meters using

$$E(\text{dBuV/m}) = P(\text{dBm EIRP}) + 95.2 = -34 + 95.2 = 61.2 \text{ dBuV/m}$$

$$\text{Note: } \text{EIRP}_{1\text{MHz}} = \text{EIRP}_{50\text{MHz}} + 20\log(1\text{MHz} / 50 \text{ MHz}) = 0 \text{ dBm} + -34 \text{ dB} = -34 \text{ dBm}$$

5.2 INSTRUMENT SETUP VALUE AND MEASUREMENT DISTANCE

Frequency Range	RBW	VBW	Detector	Measurement Distance
3100~10600	1MHz	3MHz	PEAK	3 Meter

5.3 TEST PROCEDURE

Same as 3.3.2

5.4 DEVIATION FROM TEST STANDARD

No deviation

5.5 TEST SETUP

Same as 3.3.4

5.6 FIELD STRENGTH CALCULATION

Same as 3.2.5

5.7 EUT OPERATING CONDITIONS

Same as 3.2.5



5.8 TEST RESULTS

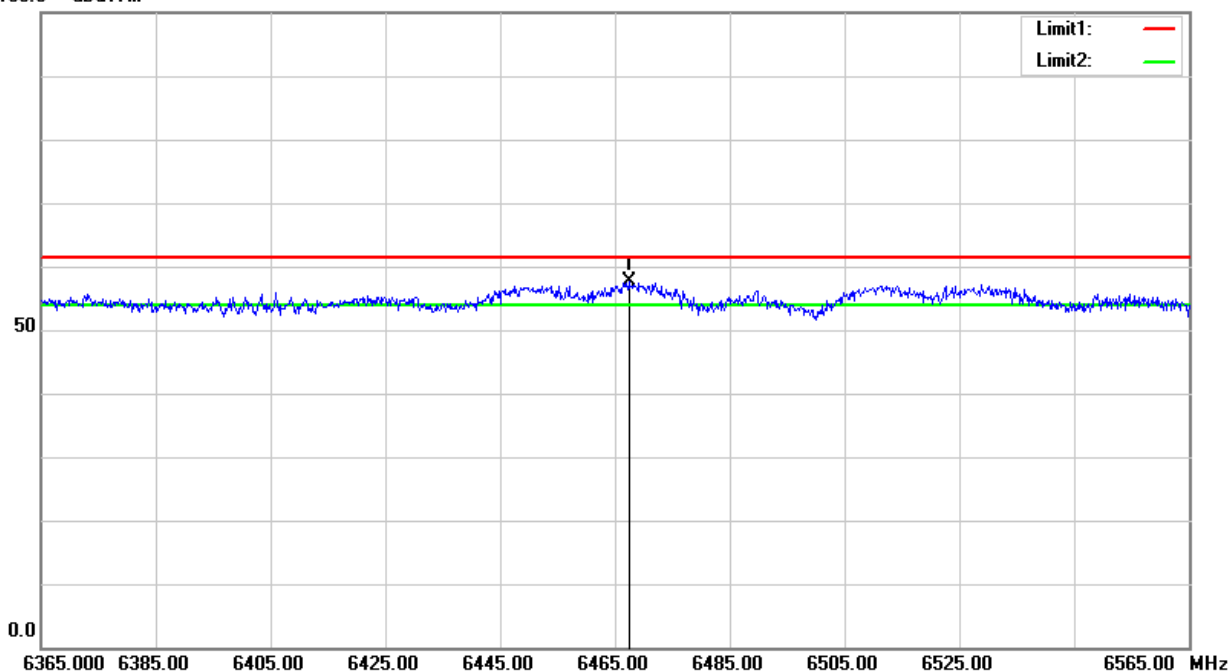
Temperature:	23.5(C)	Relative Humidity:	62%RH
Test Voltage:	DC 3.7V	Phase:	Horizontal
Test Mode:	CH 1	Test distance:	3m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6467.400	59.67	-2.04	57.63	61.20	-3.57	peak

Remark:

1. Margin = Result (Result = Reading + Factor) - Limit
2. Factor = Antenna factor + Cable attenuation factor (cable loss) - Amplifier gain

100.0 dBuV/m





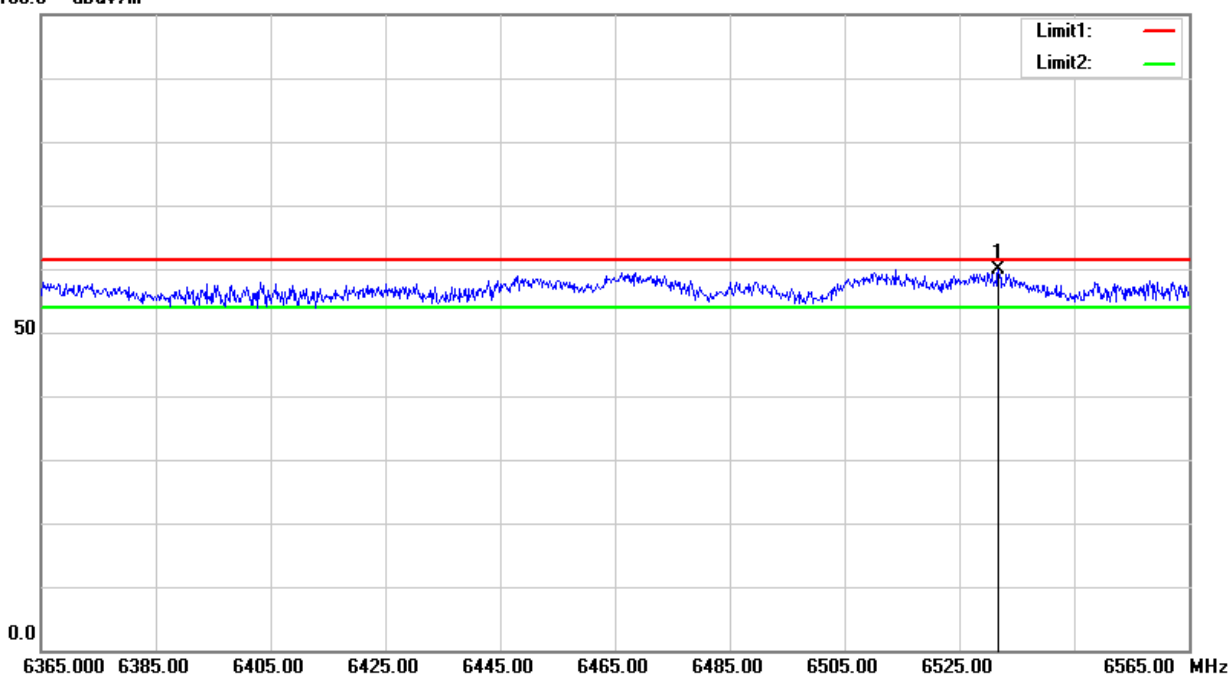
Temperature:	23.5(C)	Relative Humidity:	62%RH
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	CH 1	Test distance:	3m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6531.800	61.78	-1.88	59.90	61.20	-1.30	peak

Remark:

1. Margin = Result (Result = Reading + Factor) – Limit
2. Factor = Antenna factor + Cable attenuation factor (cable loss) – Amplifier gain

100.0 dBuV/m





6. ANTENNA REQUIREMENT

6.1 STANDARD REQUIREMENT

According to the FCC Part 15 Paragraph 15.203&RSS-Gen(6.8), 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.

6.2 EUT ANTENNA

The EUT antenna is PCB Antenna.It conforms to the standard requirements.





APPENDIX- PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

*****END OF THE REPORT*****

