



RADIO TEST REPORT

Report No: STS2111050W03

Issued for

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

Sevket Ozcelik sok. No29 Alsancak izmir Turkey

Product Name:	Litum Tag Compact
Brand Name:	Litum
Model Name:	632
Series Model:	N/A
FCC ID:	2AW7W-632
IC:	26820-632
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: Litum Tag Compact
Brand Name: Litum
Model Name.....: 632
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.....: 10 Nov. 2021
Date of performance of tests ...: 10 Nov. 2021 ~ 16 Dec. 2021
Date of Issue: 16 Dec. 2021
Test Result: **Pass**

Testing Engineer :

(Chris Chen)

Technical Manager :

(Sean she)

Authorized Signatory :

(Vita Li)





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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	16 Dec. 2021	STS2111050W03	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	N/A	
15.203 RSS-Gen (6.8)	Antenna Requirement	Pass	
15.209 15.519(c) RSS-220 (3.4) RSS-220 (5.3.1(d))	Radiated Spurious Emission	Pass	
15.209 15.519(d) RSS-220 (5.3.1(e))	Radiated Spurious Emission in GPS Band	Pass	
15.519(e) RSS-220 (5.3.1(g))	Peak Emissions within a 50MHz Bandwidth	Pass	
15.519(b) RSS-220 (2)	UWB Bandwidth	Pass	
RSS-Gen 6.7	99% Bandwidth	Pass	
15.519(a)(1) RSS-220 (5.3.1(b))	Cessation Time	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 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 %**.

No.	Item	Uncertainty
1	RF output power, conducted	$\pm 0.68\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.988\text{dB}$
3	All emissions, radiated 30-1GHz	$\pm 6.7\text{dB}$
4	All emissions, radiated 1G-6GHz	$\pm 5.5\text{dB}$
5	All emissions, radiated >6G	$\pm 5.8\text{dB}$
6	Conducted Emission (9KHz-150KHz)	$\pm 4.43\text{dB}$
7	Conducted Emission (150KHz-30MHz)	$\pm 5\text{dB}$

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Litum Tag Compact								
Trade Name	Litum								
Model Name	632								
Series Model	N/A								
Model Difference	N/A								
Product Description	<p>The EUT is a Litum Tag Compact</p> <table border="1"> <tr> <td>Operation Frequency:</td> <td>6489.6MHz</td> </tr> <tr> <td>Modulation Type:</td> <td>QPSK</td> </tr> <tr> <td>Antenna Designation:</td> <td>Please refer to the Note 3.</td> </tr> <tr> <td>Antenna Gain(Peak):</td> <td>Chip antenna</td> </tr> </table> <p>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.</p>	Operation Frequency:	6489.6MHz	Modulation Type:	QPSK	Antenna Designation:	Please refer to the Note 3.	Antenna Gain(Peak):	Chip antenna
Operation Frequency:	6489.6MHz								
Modulation Type:	QPSK								
Antenna Designation:	Please refer to the Note 3.								
Antenna Gain(Peak):	Chip antenna								
Channel List	Please refer to the Note 2.								
Battery	Rated Voltage:3.7 Charge Limit Voltage: 4.2V Capacity: 330mAh								
Hardware version number	LT010103								
Software version number	12.01.02.07								
Connecting I/O Port(s)	Please refer to the Note 1.								

Note:

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

- | Test channel | Frequency(GHz) | Test channel | Frequency(GHz) |
|--------------|----------------|--------------|----------------|
| 1 | 6489.6 | - | - |

- Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	Litum	632	Chip	N/A	2.4	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	QPSK

Note:

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

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
Other	UWB	QPSK	2.4	Default	No software is required, EUT has signal transmisson 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





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.	Serial No.	Note
N/A	N/A	N/A	N/A	N/A	N/A

Support units

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

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) 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	SK201808090 1	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)			

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Signal Analyzer	Agilent	N9020A	MY51110105	2021.03.04	2022.03.03
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.

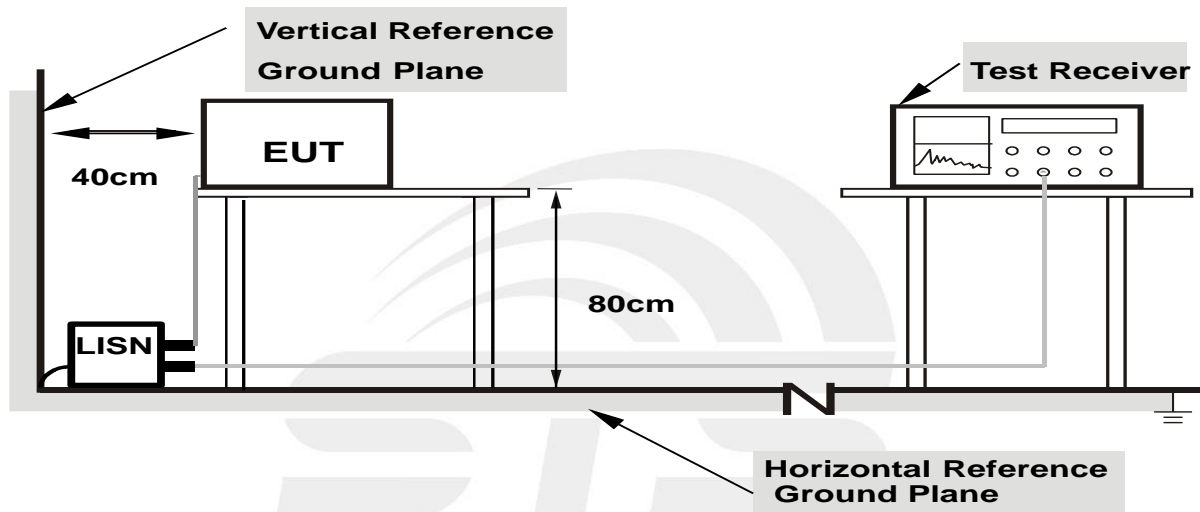
The following table is the setting of the receiver

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

3.1.2 TEST PROCEDURE

- a. 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.
- 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.

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:	N/A	Relative Humidity:	N/A
Test Voltage:	N/A	Phase:	L/N
Test Mode:	N/A		

Note: EUT is only power by battery, So it is not applicable for this test.



3.2 RADIATED EMISSION MEASUREMENT (FOR 15.519(c)&RSS 220 5.3.1(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	-63.3	31.9	41.44
1990~3100	-61.3	33.9	43.44
3100~10600	-41.3	53.9	63.44
Above 10600	-61.3	33.9	43.44

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	-61.3	33.9	43.44

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

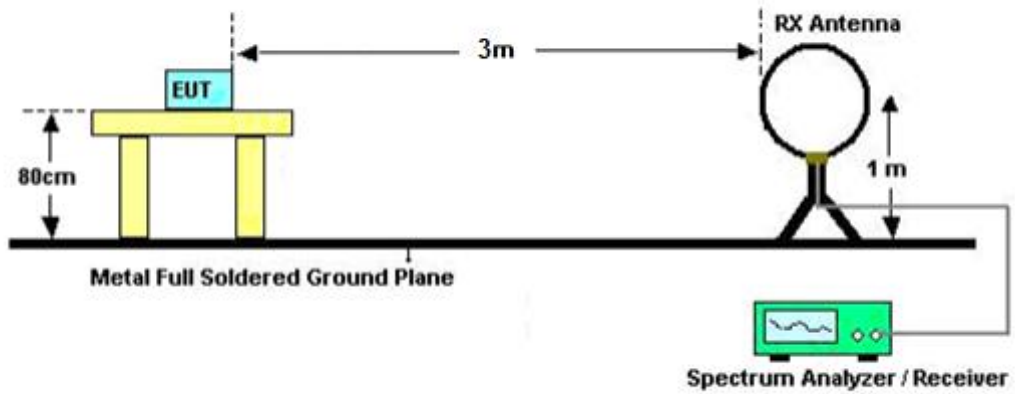
- a. The measuring distance of 1m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8meter (above 1GHz is 1.5 m) above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The height 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

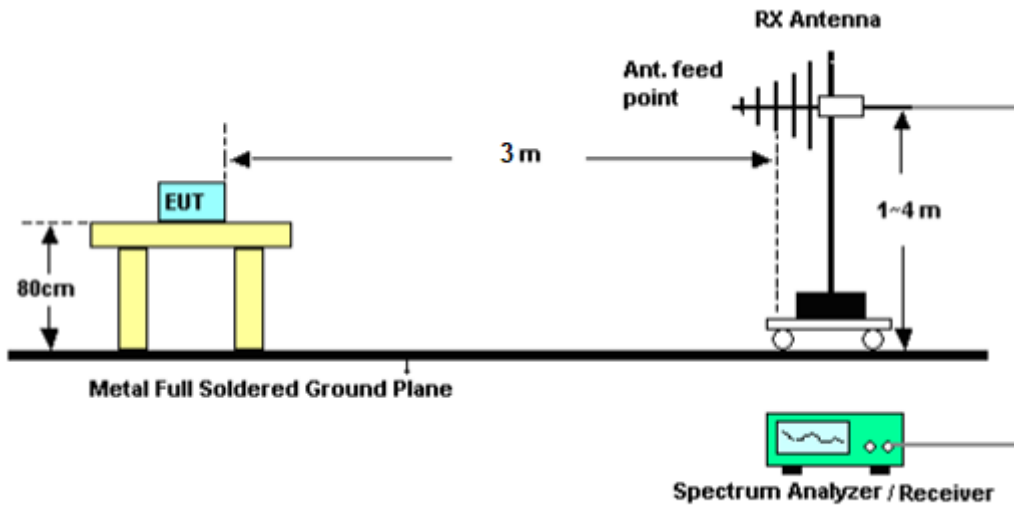
No deviation

3.2.4 TEST SETUP

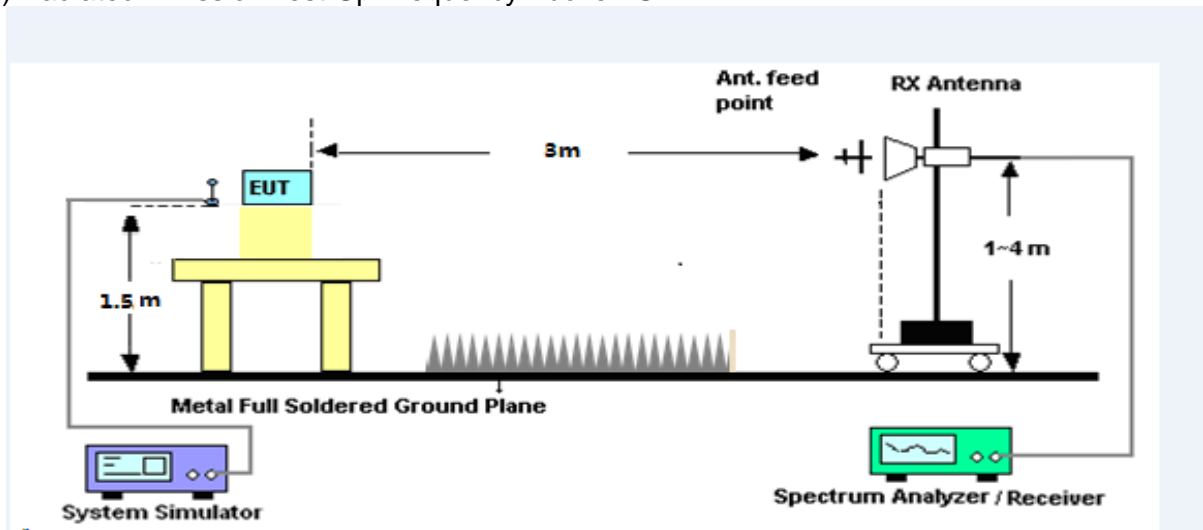
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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

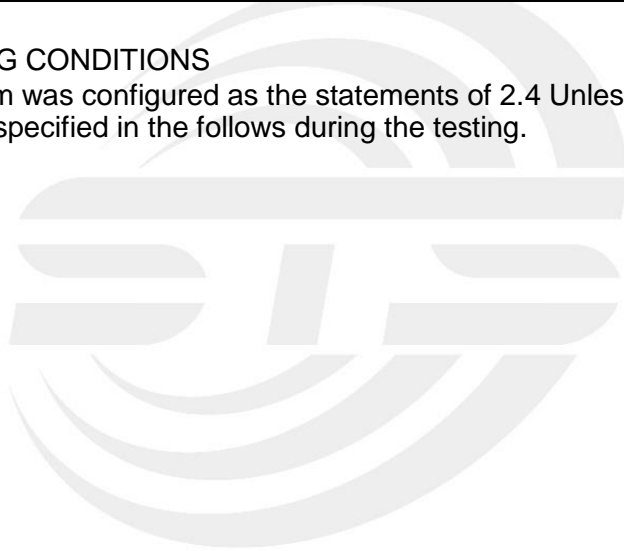
AV L = AV Limit

For example

Frequency	PR	AR	AF	PL	AL	PK L	AV L	Margin
(MHz)	(dB μ V/m)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB μ V/m)	(dB μ V/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

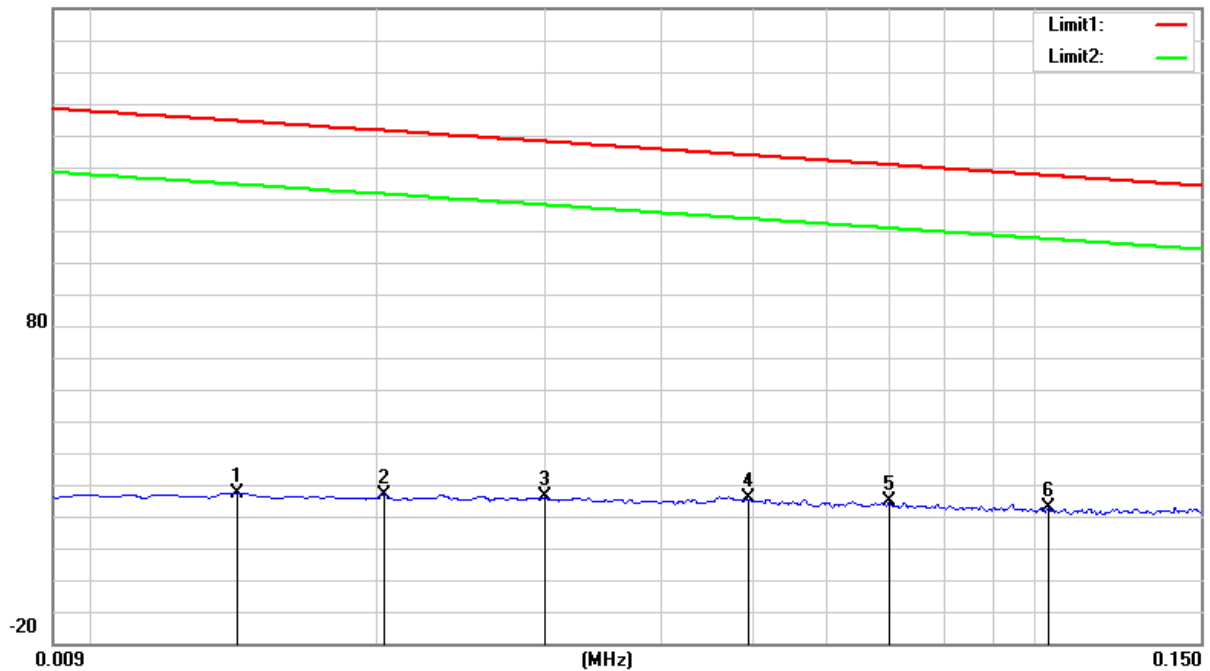
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Test Mode:	CH 1(9KHz - 150KHz)
Test distance:	3m		

No.	Frequency (KHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0142	7.76	19.68	27.44	124.56	-97.12	AVG
2	0.0202	6.69	20.10	26.79	121.50	-94.71	AVG
3	0.0300	6.28	19.90	26.18	118.06	-91.88	AVG
4	0.0493	6.04	19.51	25.55	113.75	-88.20	AVG
5	0.0700	5.75	18.94	24.69	110.70	-86.01	AVG
6	0.1033	5.11	17.59	22.70	107.32	-84.62	QP

Remark:

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

180.0 dBuV/m



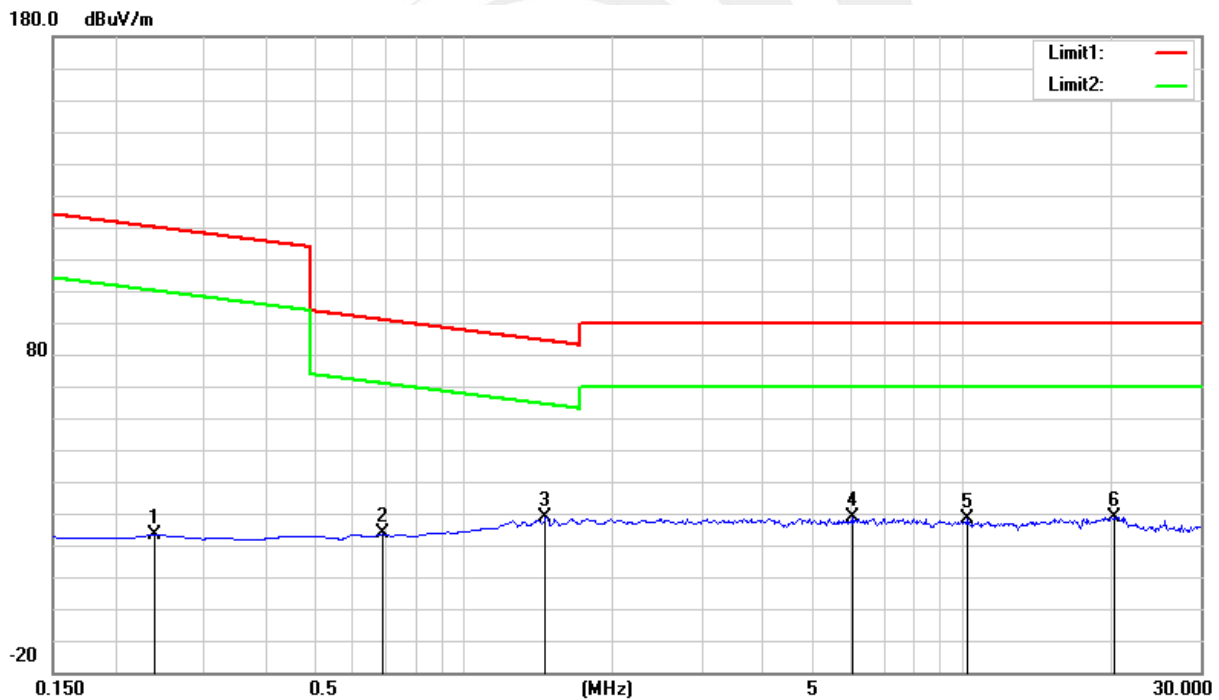


Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Test Mode:	CH 1 (150KHz – 30MHz)
Test distance:	3m		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.2396	3.48	19.83	23.31	100.01	-76.70	AVG
2	0.6873	3.25	20.27	23.52	70.86	-47.34	QP
3	1.4633	8.49	20.29	28.78	64.30	-35.52	QP
4	6.0305	8.18	20.44	28.62	69.54	-40.92	QP
5	10.2094	7.80	20.25	28.05	69.54	-41.49	QP
6	20.0600	6.30	22.48	28.78	69.54	-40.76	QP

Remark:

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



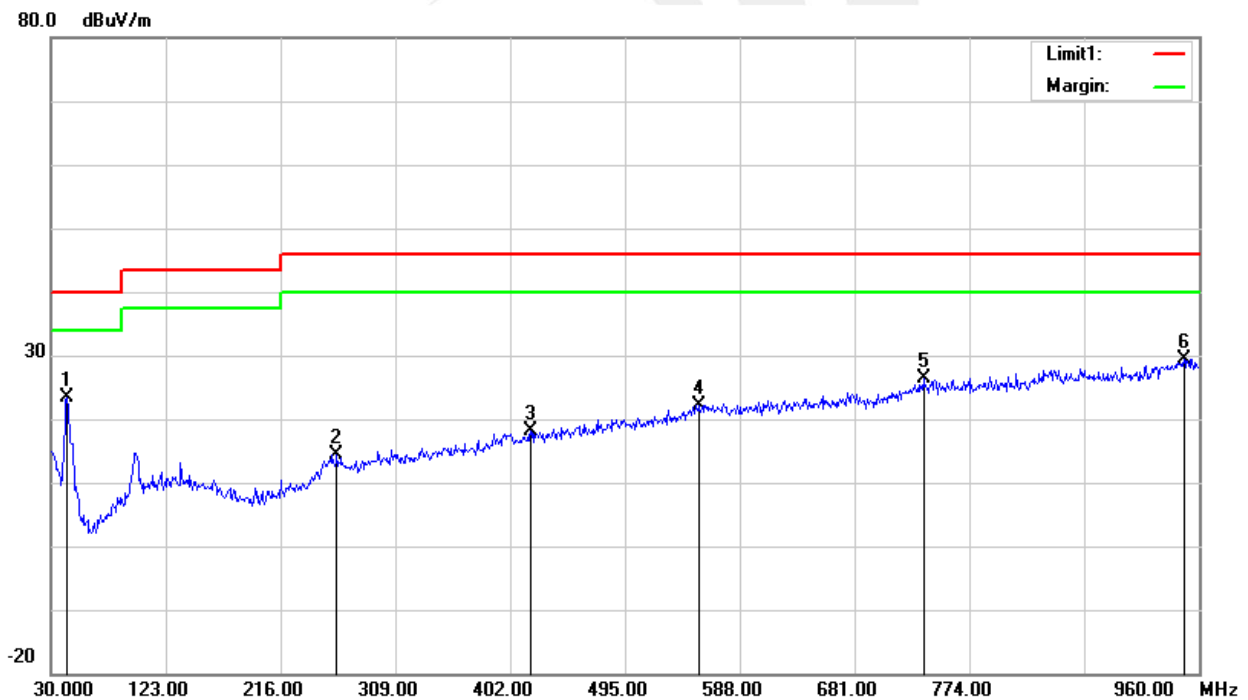
30MHz – 960MHz Radiation Spurious

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	43.0200	42.98	-19.65	23.33	40.00	-16.67	QP
2	261.5700	29.24	-14.77	14.47	46.00	-31.53	QP
3	418.7400	28.37	-10.15	18.22	46.00	-27.78	QP
4	555.4500	27.85	-5.62	22.23	46.00	-23.77	QP
5	736.8000	28.71	-2.23	26.48	46.00	-19.52	QP
6	947.9100	27.87	1.55	29.42	46.00	-16.58	QP

Remark:

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



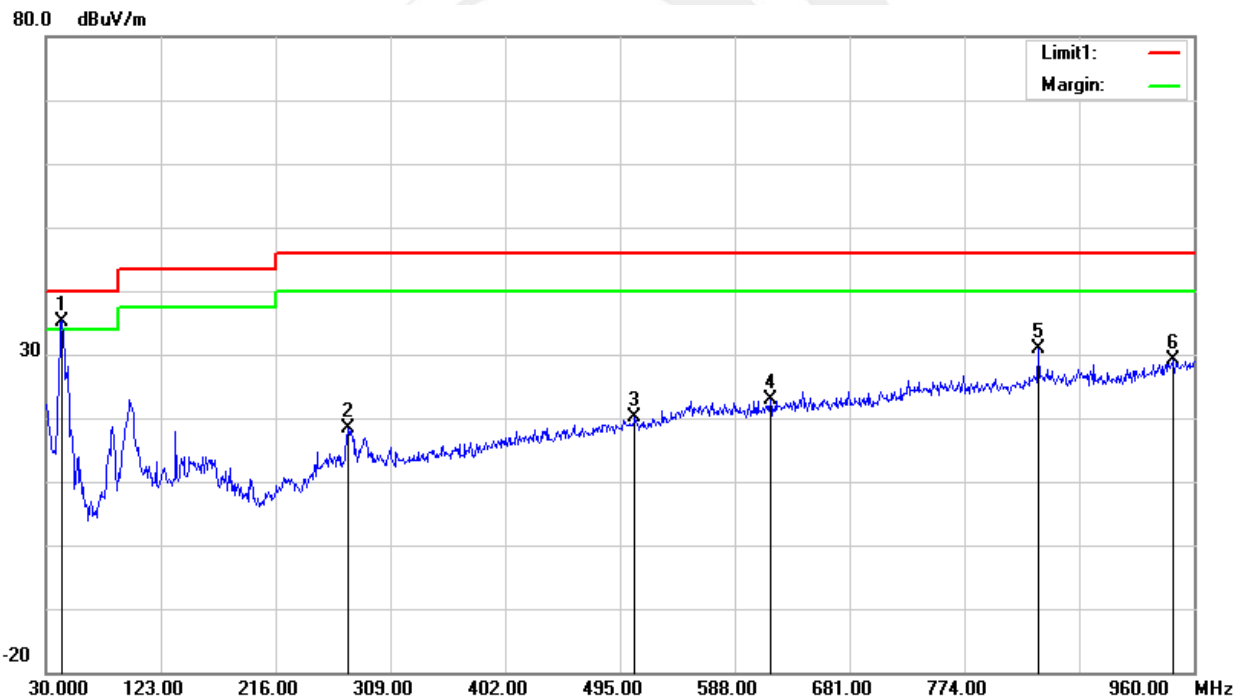


Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	CH 1	Test distance:	3m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	43.0200	54.90	-19.65	35.25	40.00	-4.75	QP
2	274.5900	33.72	-15.43	18.29	46.00	-27.71	QP
3	507.0900	28.10	-7.97	20.13	46.00	-25.87	QP
4	616.8300	28.37	-5.49	22.88	46.00	-23.12	QP
5	833.5200	31.45	-0.61	30.84	46.00	-15.16	QP
6	943.2600	27.75	1.45	29.20	46.00	-16.80	QP

Remark:

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





Above 960MHz Radiation Spurious

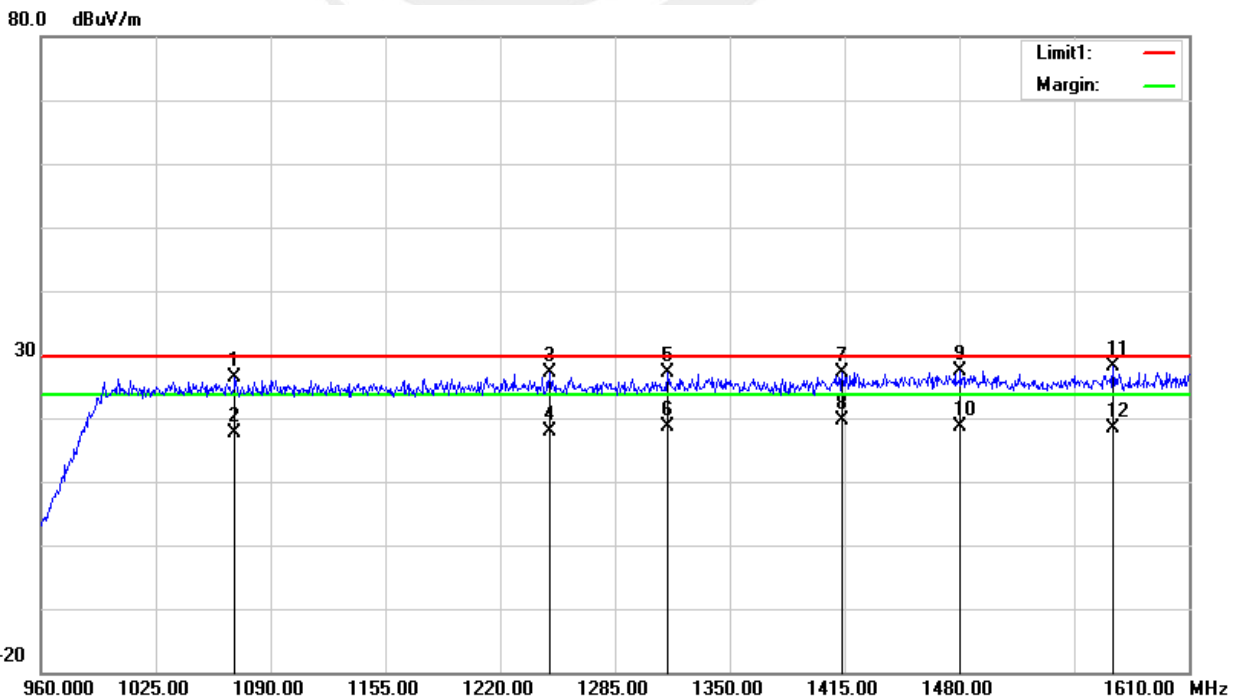
FCC:

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	1069.850	27.64	-1.26	26.38	29.44	-3.06	peak
2	1069.850	18.85	-1.26	17.59	29.44	-11.85	RMS
3	1247.950	27.52	-0.51	27.01	29.44	-2.43	peak
4	1247.950	18.39	-0.51	17.88	29.44	-11.56	RMS
5	1314.900	27.33	-0.08	27.25	29.44	-2.19	peak
6	1314.900	18.62	-0.08	18.54	29.44	-10.9	RMS
7	1413.700	26.71	0.44	27.15	29.44	-2.29	peak
8	1413.700	19.19	0.44	19.63	29.44	-9.81	RMS
9	1480.650	26.09	1.25	27.34	29.44	-2.1	peak
10	1480.650	17.46	1.25	18.71	29.44	-10.73	RMS
11	1567.100	24.81	3.20	28.01	29.44	-1.43	peak
12	1567.100	15.16	3.20	18.36	29.44	-11.08	RMS

Remark:

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





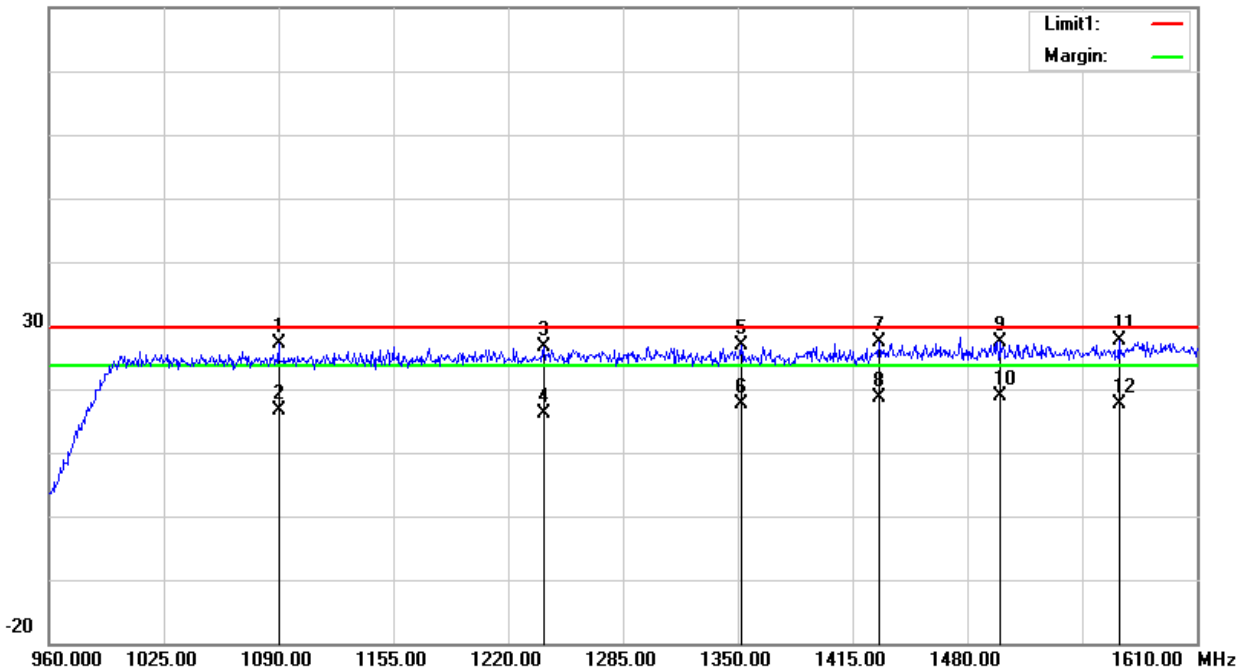
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	CH 1(960MHz -1610MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1090.000	28.24	-1.13	27.11	29.44	-2.33	peak
2	1090.000	17.64	-1.13	16.51	29.44	-12.93	RMS
3	1240.150	27.05	-0.49	26.56	29.44	-2.88	peak
4	1240.150	16.63	-0.49	16.14	29.44	-13.3	RMS
5	1351.950	26.81	0.07	26.88	29.44	-2.56	peak
6	1351.950	17.46	0.07	17.53	29.44	-11.91	RMS
7	1429.950	26.84	0.64	27.48	29.44	-1.96	peak
8	1429.950	17.98	0.64	18.62	29.44	-10.82	RMS
9	1498.850	26.01	1.47	27.48	29.44	-1.96	peak
10	1498.850	17.34	1.47	18.81	29.44	-10.63	RMS
11	1565.800	24.50	3.16	27.66	29.44	-1.78	peak
12	1565.800	14.54	3.16	17.70	29.44	-11.74	RMS

Remark:

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

80.0 dBuV/m





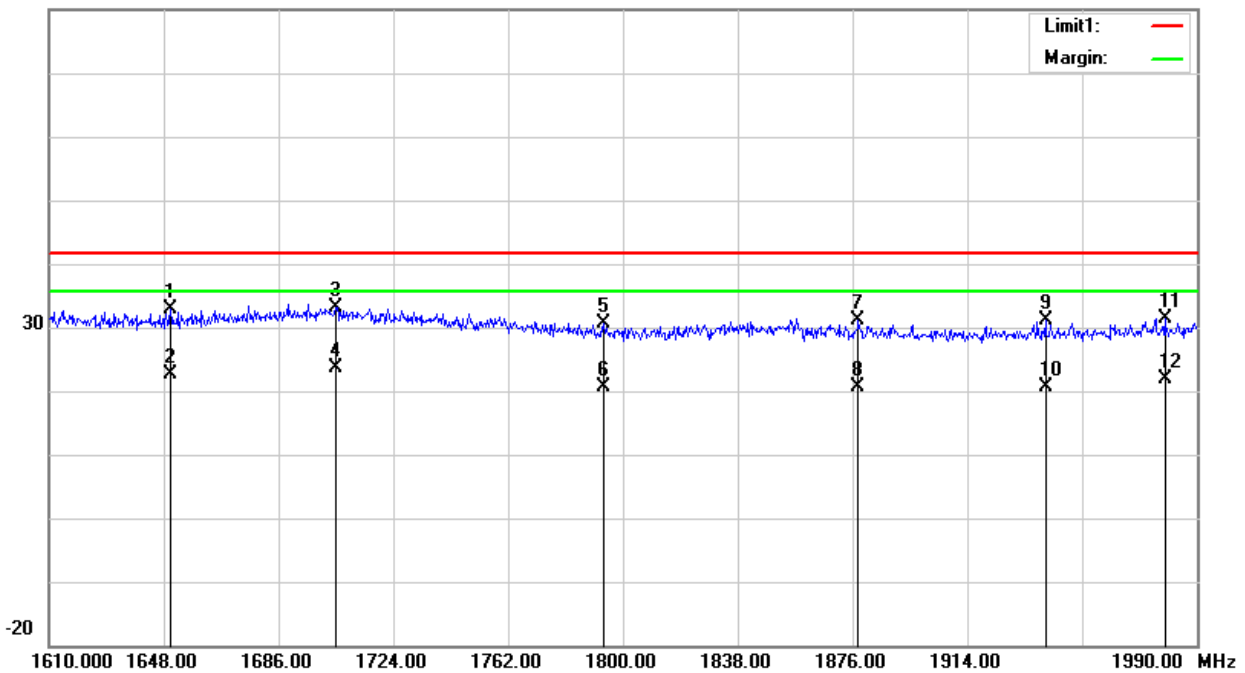
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Horizontal
Test Mode:	CH 1(1610MHz – 1990MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1650.280	28.52	4.25	32.77	41.44	-8.67	peak
2	1650.280	18.36	4.25	22.61	41.44	-18.83	RMS
3	1705.000	28.11	5.06	33.17	41.44	-8.27	peak
4	1705.000	18.60	5.06	23.66	41.44	-17.78	RMS
5	1793.540	28.71	2.02	30.73	41.44	-10.71	peak
6	1793.540	18.56	2.02	20.58	41.44	-20.86	RMS
7	1877.900	29.20	1.86	31.06	41.44	-10.38	peak
8	1877.900	18.68	1.86	20.54	41.44	-20.9	RMS
9	1939.840	29.51	1.51	31.02	41.44	-10.42	peak
10	1939.840	19.16	1.51	20.67	41.44	-20.77	RMS
11	1979.360	29.67	1.81	31.48	41.44	-9.96	peak
12	1979.360	20.13	1.81	21.94	41.44	-19.5	RMS

Remark:

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

80.0 dBuV/m



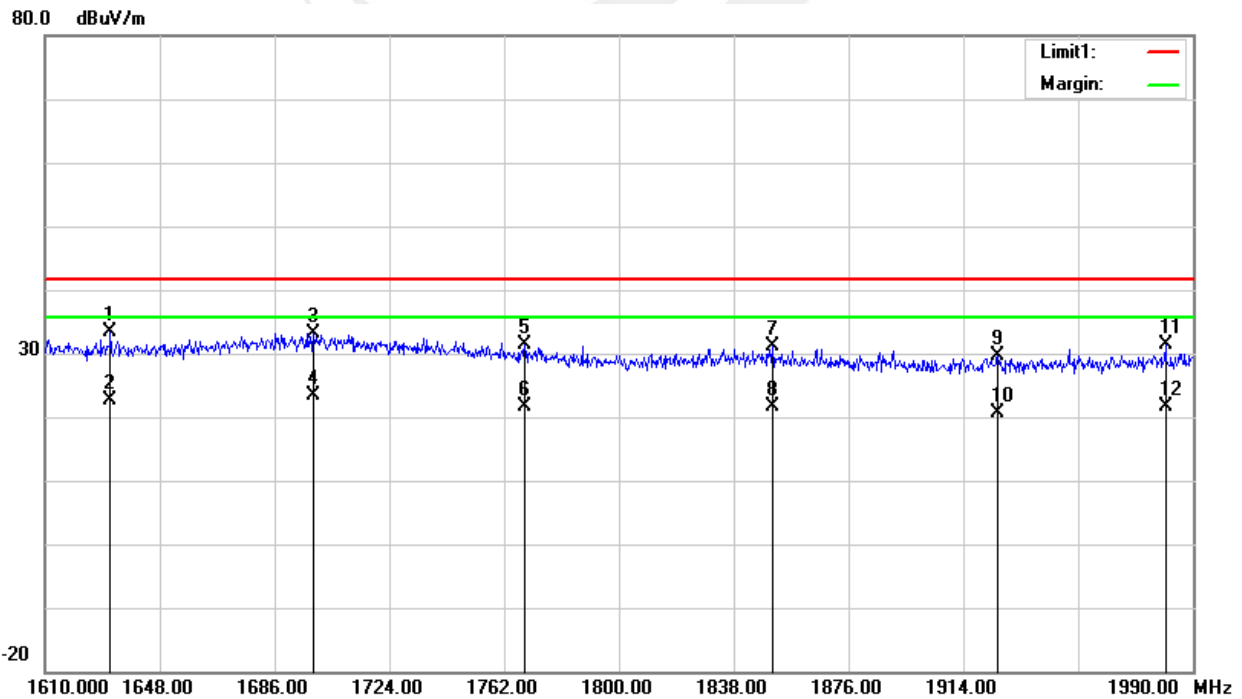


Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	CH 1(1610MHz – 1990MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1631.660	29.03	4.24	33.27	41.44	-8.17	peak
2	1631.660	18.30	4.24	22.54	41.44	-18.9	RMS
3	1698.920	27.81	5.20	33.01	41.44	-8.43	peak
4	1698.920	18.28	5.20	23.48	41.44	-17.96	RMS
5	1768.840	28.38	2.95	31.33	41.44	-10.11	peak
6	1768.840	18.72	2.95	21.67	41.44	-19.77	RMS
7	1850.920	28.79	2.34	31.13	41.44	-10.31	peak
8	1850.920	19.20	2.34	21.54	41.44	-19.9	RMS
9	1925.400	28.22	1.49	29.71	41.44	-11.73	peak
10	1925.400	19.16	1.49	20.65	41.44	-20.79	RMS
11	1980.880	29.48	1.82	31.30	41.44	-10.14	peak
12	1980.880	19.76	1.82	21.58	41.44	-19.86	RMS

Remark:

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





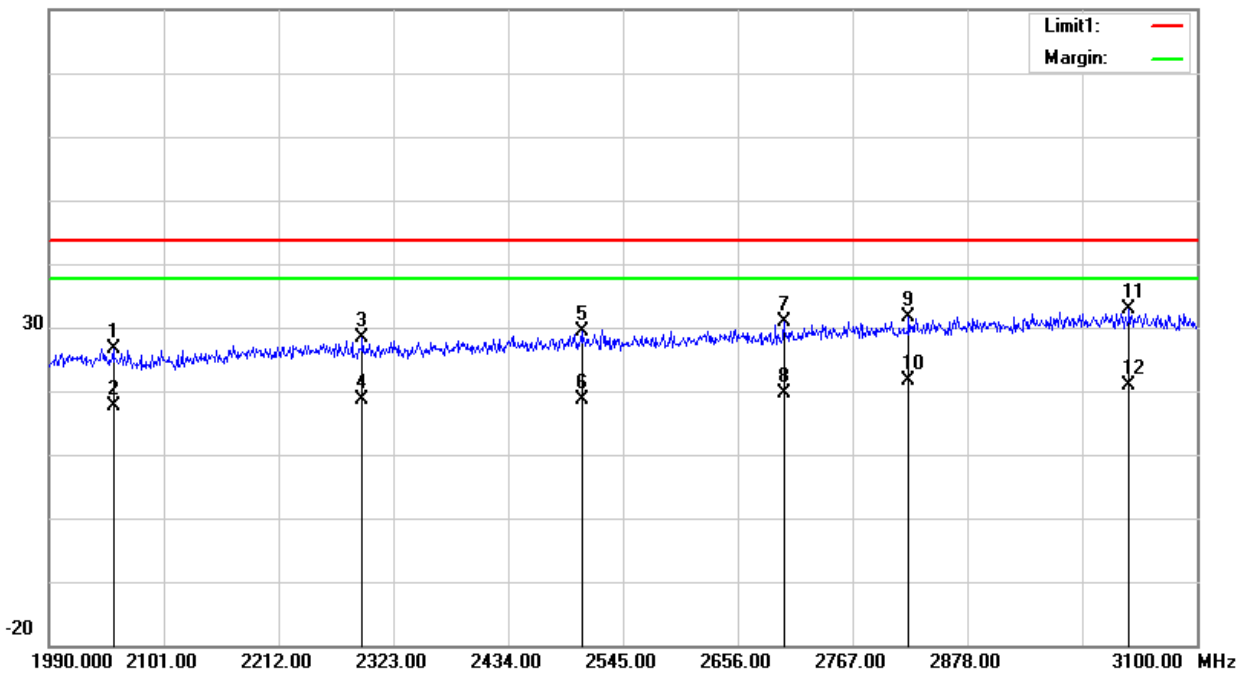
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Horizontal
Test Mode:	CH 1(1990MHz – 3100MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2052.160	24.58	2.12	26.70	43.44	-16.74	peak
2	2052.160	15.57	2.12	17.69	43.44	-25.75	RMS
3	2293.030	24.79	3.52	28.31	43.44	-15.13	peak
4	2293.030	15.09	3.52	18.61	43.44	-24.83	RMS
5	2505.040	24.79	4.69	29.48	43.44	-13.96	peak
6	2505.040	13.97	4.69	18.66	43.44	-24.78	RMS
7	2700.400	25.24	5.61	30.85	43.44	-12.59	peak
8	2700.400	13.91	5.61	19.52	43.44	-23.92	RMS
9	2821.390	25.26	6.38	31.64	43.44	-11.8	peak
10	2821.390	15.13	6.38	21.51	43.44	-21.93	RMS
11	3034.510	4.63	28.22	32.85	43.44	-10.59	peak
12	3034.510	-7.37	28.22	20.85	43.44	-22.59	RMS

Remark:

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

80.0 dBuV/m





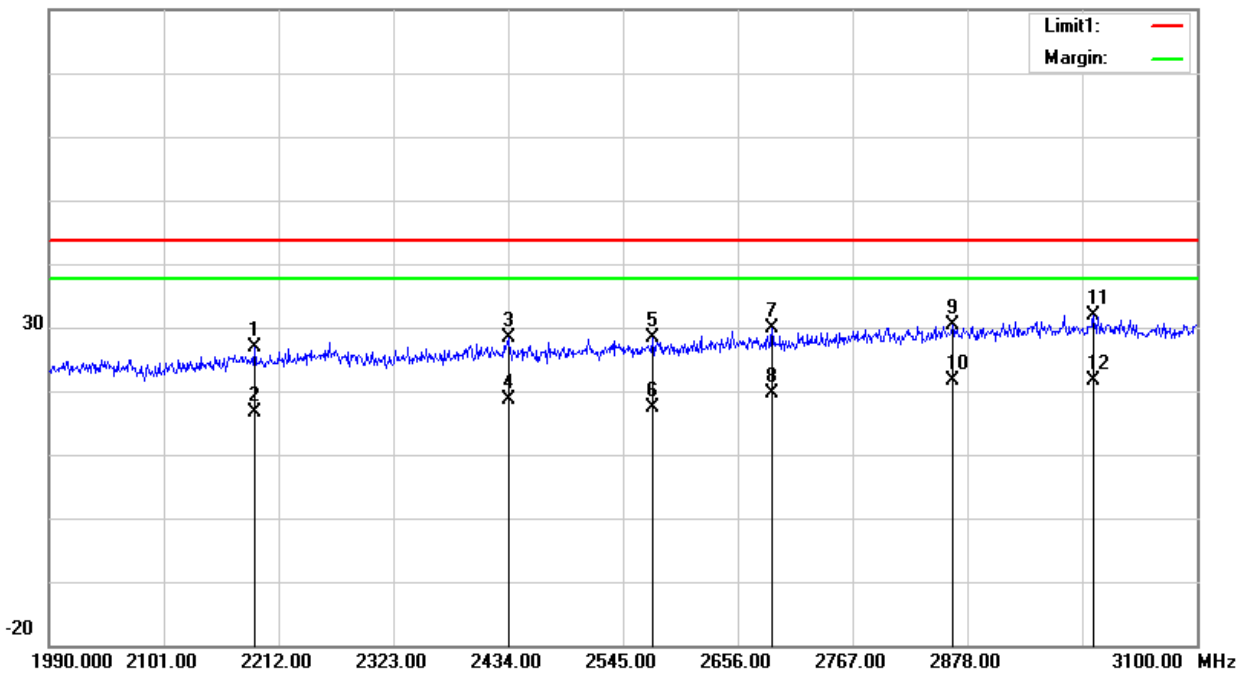
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	CH 1(1990MHz – 3100MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2188.690	23.80	3.01	26.81	43.44	-16.63	peak
2	2188.690	13.60	3.01	16.61	43.44	-26.83	RMS
3	2434.000	23.97	4.51	28.48	43.44	-14.96	peak
4	2434.000	14.11	4.51	18.62	43.44	-24.82	RMS
5	2573.860	23.32	5.01	28.33	43.44	-15.11	peak
6	2573.860	12.26	5.01	17.27	43.44	-26.17	RMS
7	2689.300	24.39	5.60	29.99	43.44	-13.45	peak
8	2689.300	14.11	5.60	19.71	43.44	-23.73	RMS
9	2863.570	23.76	6.61	30.37	43.44	-13.07	peak
10	2863.570	14.93	6.61	21.54	43.44	-21.9	RMS
11	3000.100	3.69	28.20	31.89	43.44	-11.55	peak
12	3000.100	-6.48	28.20	21.72	43.44	-21.72	RMS

Remark:

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

80.0 dBuV/m





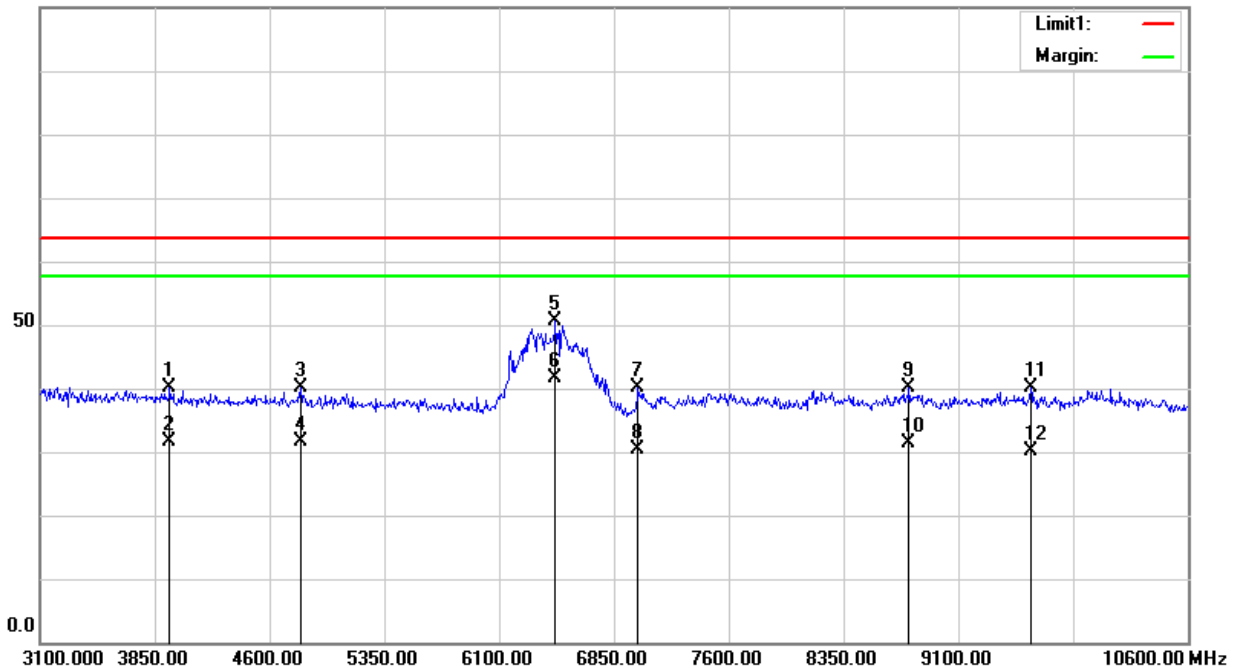
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Horizontal
Test Mode:	CH 1 (3100MHz – 10600MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3947.500	10.62	29.57	40.19	63.44	-23.25	peak
2	3947.500	2.04	29.57	31.61	63.44	-31.83	RMS
3	4802.500	8.80	31.21	40.01	63.44	-23.43	peak
4	4802.500	0.35	31.21	31.56	63.44	-31.88	RMS
5	6467.500	16.68	34.06	50.74	63.44	-12.7	peak
6	6467.500	7.48	34.06	41.54	63.44	-21.9	RMS
7	7007.500	4.65	35.51	40.16	63.44	-23.28	peak
8	7007.500	-5.01	35.51	30.50	63.44	-32.94	RMS
9	8777.500	2.79	37.31	40.10	63.44	-23.34	peak
10	8777.500	-5.90	37.31	31.41	63.44	-32.03	RMS
11	9572.500	2.32	37.80	40.12	63.44	-23.32	peak
12	9572.500	-7.59	37.80	30.21	63.44	-33.23	RMS

Remark:

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

100.0 dBuV/m





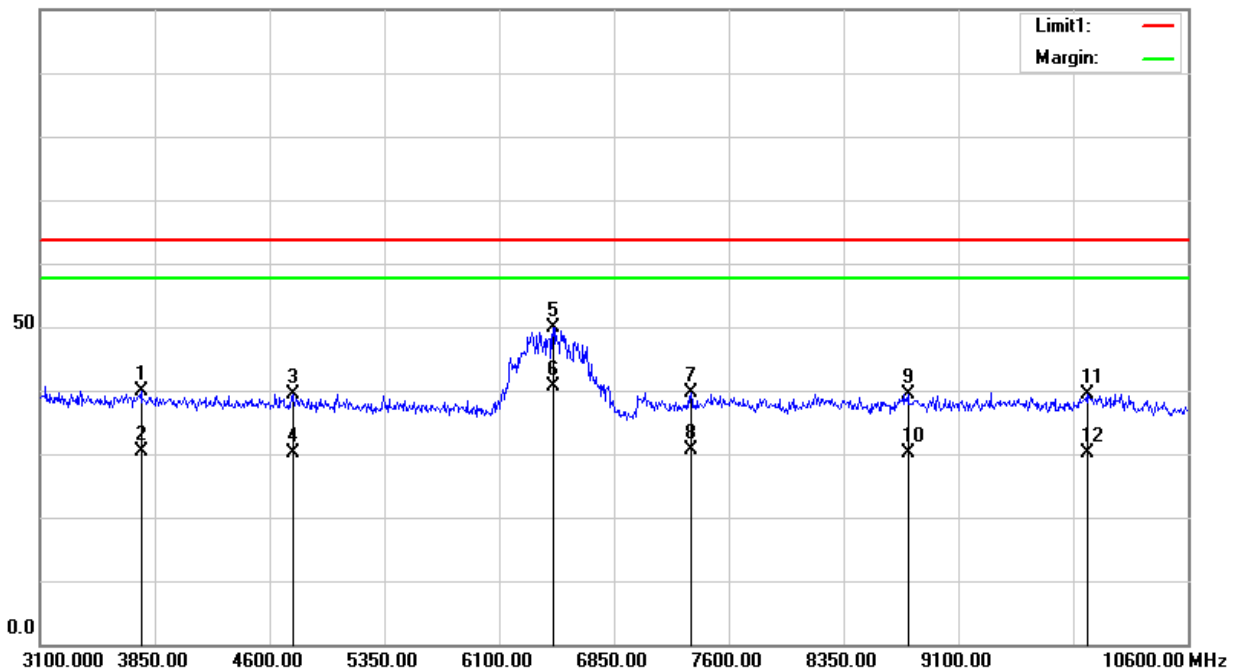
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	CH 1 (3100MHz – 10600MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3760.000	10.84	29.12	39.96	63.44	-23.48	peak
2	3760.000	1.29	29.12	30.41	63.44	-33.03	RMS
3	4750.000	8.39	31.10	39.49	63.44	-23.95	peak
4	4750.000	-0.95	31.10	30.15	63.44	-33.29	RMS
5	6452.500	15.86	34.02	49.88	63.44	-13.56	peak
6	6452.500	6.49	34.02	40.51	63.44	-22.93	RMS
7	7352.500	3.49	36.03	39.52	63.44	-23.92	peak
8	7352.500	-5.38	36.03	30.65	63.44	-32.79	RMS
9	8770.000	2.05	37.31	39.36	63.44	-24.08	peak
10	8770.000	-7.16	37.31	30.15	63.44	-33.29	RMS
11	9940.000	1.32	38.06	39.38	63.44	-24.06	peak
12	9940.000	-7.92	38.06	30.14	63.44	-33.3	RMS

Remark:

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

100.0 dBuV/m





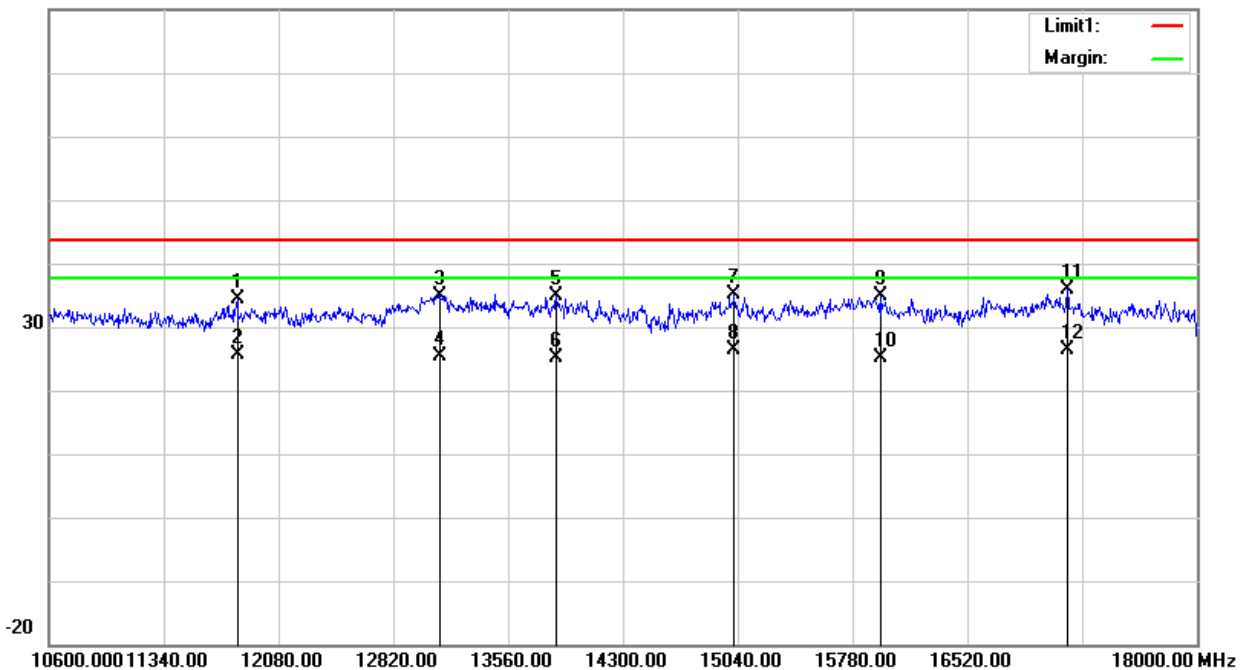
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Horizontal
Test Mode:	CH 1 (10600MHz – 18000MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11813.600	-4.42	38.77	34.35	43.44	-9.09	peak
2	11813.600	-13.16	38.77	25.61	43.44	-17.83	RMS
3	13123.400	-4.29	39.22	34.93	43.44	-8.51	peak
4	13123.400	-13.75	39.22	25.47	43.44	-17.97	RMS
5	13870.800	-6.21	41.16	34.95	43.44	-8.49	peak
6	13870.800	-16.01	41.16	25.15	43.44	-18.29	RMS
7	15017.800	-5.11	40.14	35.03	43.44	-8.41	peak
8	15017.800	-13.84	40.14	26.30	43.44	-17.14	RMS
9	15957.600	-2.26	37.23	34.97	43.44	-8.47	peak
10	15957.600	-11.99	37.23	25.24	43.44	-18.2	RMS
11	17163.800	-6.03	41.88	35.85	43.44	-7.59	peak
12	17163.800	-15.59	41.88	26.29	43.44	-17.15	RMS

Remark:

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

80.0 dBuV/m



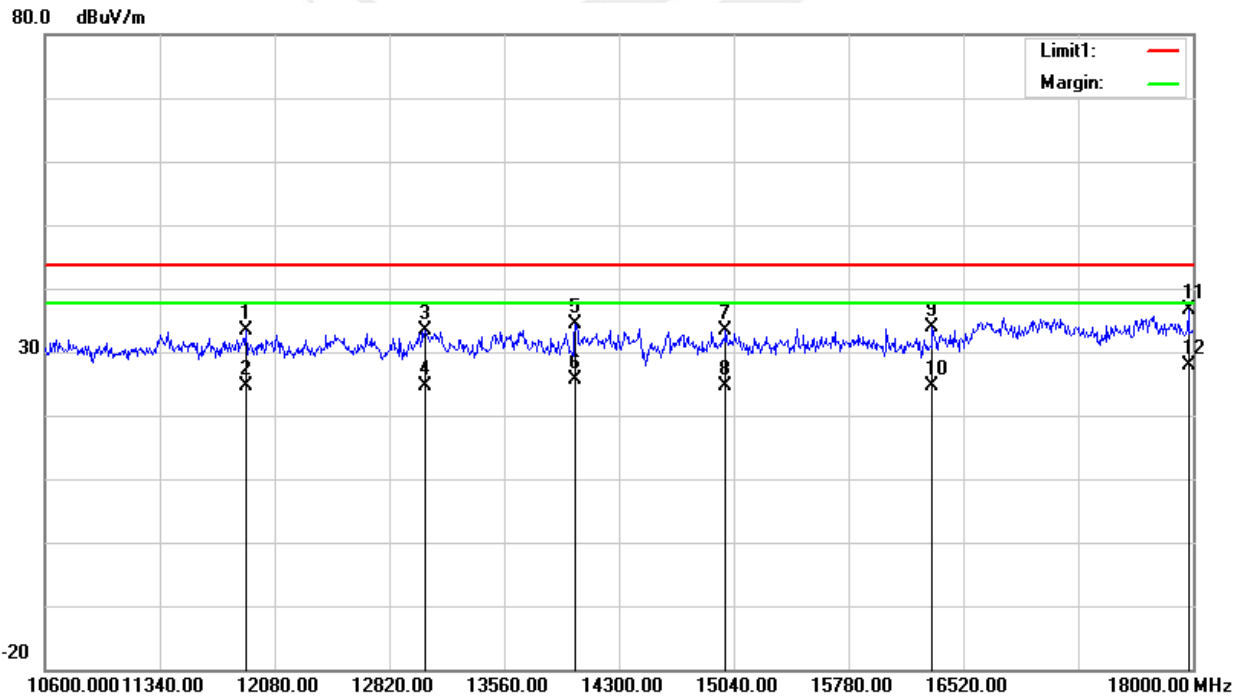


Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	CH 1 (10600MHz – 18000MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11895.000	-5.24	38.69	33.45	43.44	-9.99	peak
2	11895.000	-14.08	38.69	24.61	43.44	-18.83	RMS
3	13049.400	-5.76	39.03	33.27	43.44	-10.17	peak
4	13049.400	-14.30	39.03	24.73	43.44	-18.71	RMS
5	14018.800	-7.07	41.48	34.41	43.44	-9.03	peak
6	14018.800	-15.85	41.48	25.63	43.44	-17.81	RMS
7	14988.200	-6.81	40.22	33.41	43.44	-10.03	peak
8	14988.200	-15.50	40.22	24.72	43.44	-18.72	RMS
9	16320.200	-4.11	37.96	33.85	43.44	-9.59	peak
10	16320.200	-13.27	37.96	24.69	43.44	-18.75	RMS
11	17970.400	-3.89	40.48	36.59	43.44	-6.85	peak
12	17970.400	-12.68	40.48	27.80	43.44	-15.64	RMS

Remark:

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





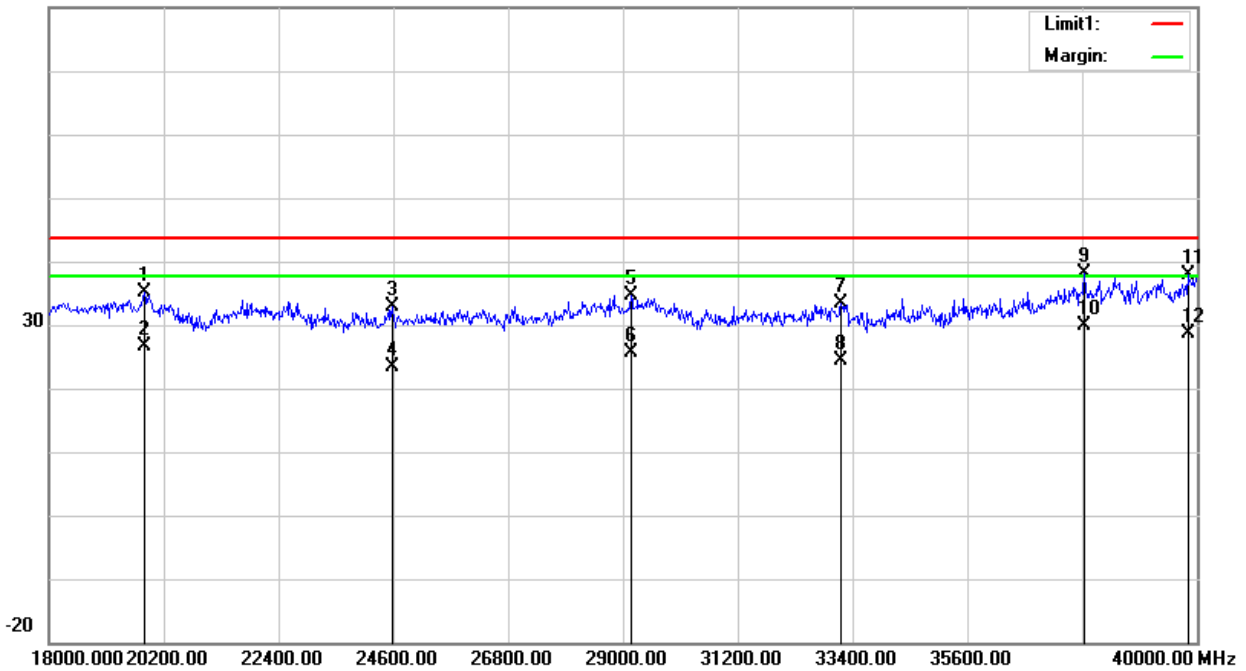
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Horizontal
Test Mode:	CH 1 (18000MHz – 40000MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	19826.000	43.52	-8.50	35.02	43.44	-8.42	peak
2	19826.000	35.14	-8.50	26.64	43.44	-16.8	RMS
3	24578.000	42.64	-9.87	32.77	43.44	-10.67	peak
4	24578.000	33.32	-9.87	23.45	43.44	-19.99	RMS
5	29154.000	43.35	-8.71	34.64	43.44	-8.8	peak
6	29154.000	34.42	-8.71	25.71	43.44	-17.73	RMS
7	33180.000	45.72	-12.42	33.30	43.44	-10.14	peak
8	33180.000	36.81	-12.42	24.39	43.44	-19.05	RMS
9	37844.000	47.80	-9.56	38.24	43.44	-5.2	peak
10	37844.000	39.38	-9.56	29.82	43.44	-13.62	RMS
11	39824.000	47.76	-9.85	37.91	43.44	-5.53	peak
12	39824.000	38.55	-9.85	28.70	43.44	-14.74	RMS

Remark:

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

80.0 dBuV/m





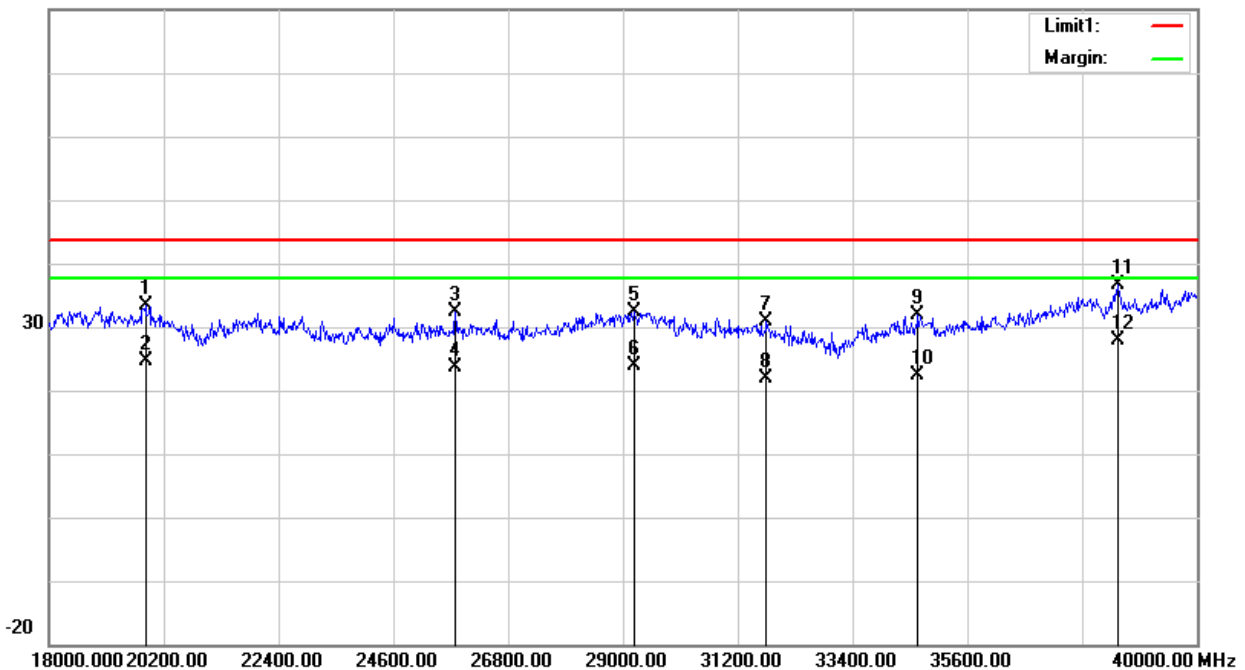
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	CH 1 (18000MHz – 40000MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	19848.000	41.84	-8.50	33.34	43.44	-10.1	peak
2	19848.000	33.25	-8.50	24.75	43.44	-18.69	RMS
3	25788.000	41.83	-9.46	32.37	43.44	-11.07	peak
4	25788.000	33.10	-9.46	23.64	43.44	-19.8	RMS
5	29220.000	41.15	-8.81	32.34	43.44	-11.1	peak
6	29220.000	32.68	-8.81	23.87	43.44	-19.57	RMS
7	31750.000	41.57	-10.63	30.94	43.44	-12.5	peak
8	31750.000	32.59	-10.63	21.96	43.44	-21.48	RMS
9	34654.000	42.08	-10.32	31.76	43.44	-11.68	peak
10	34654.000	32.67	-10.32	22.35	43.44	-21.09	RMS
11	38482.000	46.39	-9.79	36.60	43.44	-6.84	peak
12	38482.000	37.70	-9.79	27.91	43.44	-15.53	RMS

Remark:

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

80.0 dBuV/m





IC:

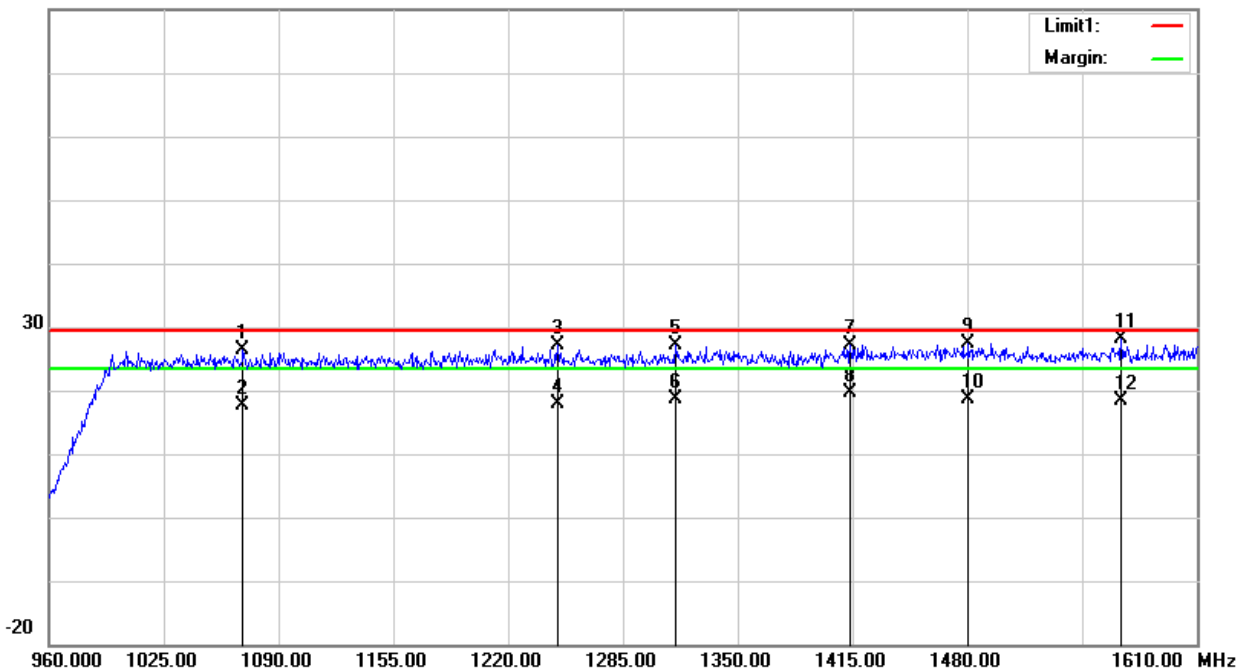
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Horizontal
Test Mode:	CH 1(960MHz -1610MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1069.850	27.64	-1.26	26.38	29.44	-3.06	peak
2	1069.850	18.85	-1.26	17.59	29.44	-11.85	RMS
3	1247.950	27.52	-0.51	27.01	29.44	-2.43	peak
4	1247.950	18.39	-0.51	17.88	29.44	-11.56	RMS
5	1314.900	27.33	-0.08	27.25	29.44	-2.19	peak
6	1314.900	18.62	-0.08	18.54	29.44	-10.90	RMS
7	1413.700	26.71	0.44	27.15	29.44	-2.29	peak
8	1413.700	19.19	0.44	19.63	29.44	-9.81	RMS
9	1480.650	26.09	1.25	27.34	29.44	-2.10	peak
10	1480.650	17.46	1.25	18.71	29.44	-10.73	RMS
11	1567.100	24.81	3.20	28.01	29.44	-1.43	peak
12	1567.100	15.16	3.20	18.36	29.44	-11.08	RMS

Remark:

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

80.0 dBuV/m





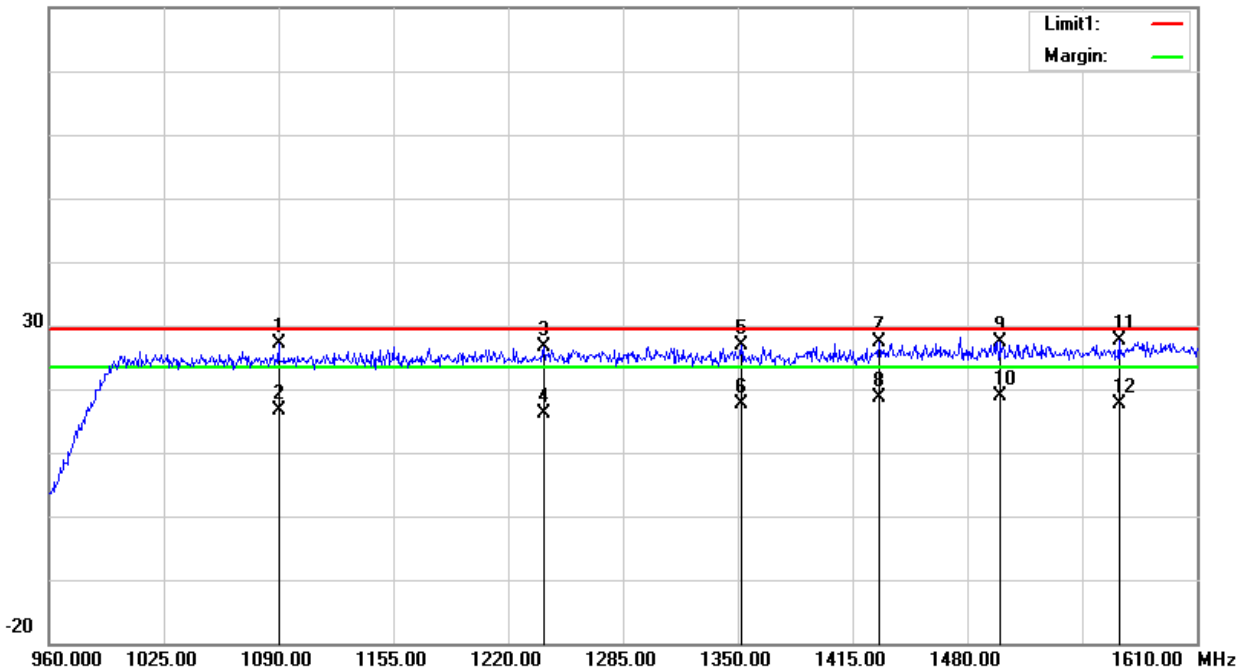
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	CH 1(960MHz -1610MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1090.000	28.24	-1.13	27.11	29.44	-2.33	peak
2	1090.000	17.64	-1.13	16.51	29.44	-12.93	RMS
3	1240.150	27.05	-0.49	26.56	29.44	-2.88	peak
4	1240.150	16.63	-0.49	16.14	29.44	-13.30	RMS
5	1351.950	26.81	0.07	26.88	29.44	-2.56	peak
6	1351.950	17.46	0.07	17.53	29.44	-11.91	RMS
7	1429.950	26.84	0.64	27.48	29.44	-1.96	peak
8	1429.950	17.98	0.64	18.62	29.44	-10.82	RMS
9	1498.850	26.01	1.47	27.48	29.44	-1.96	peak
10	1498.850	17.34	1.47	18.81	29.44	-10.63	RMS
11	1565.800	24.50	3.16	27.66	29.44	-1.78	peak
12	1565.800	14.54	3.16	17.70	29.44	-11.74	RMS

Remark:

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

80.0 dBuV/m





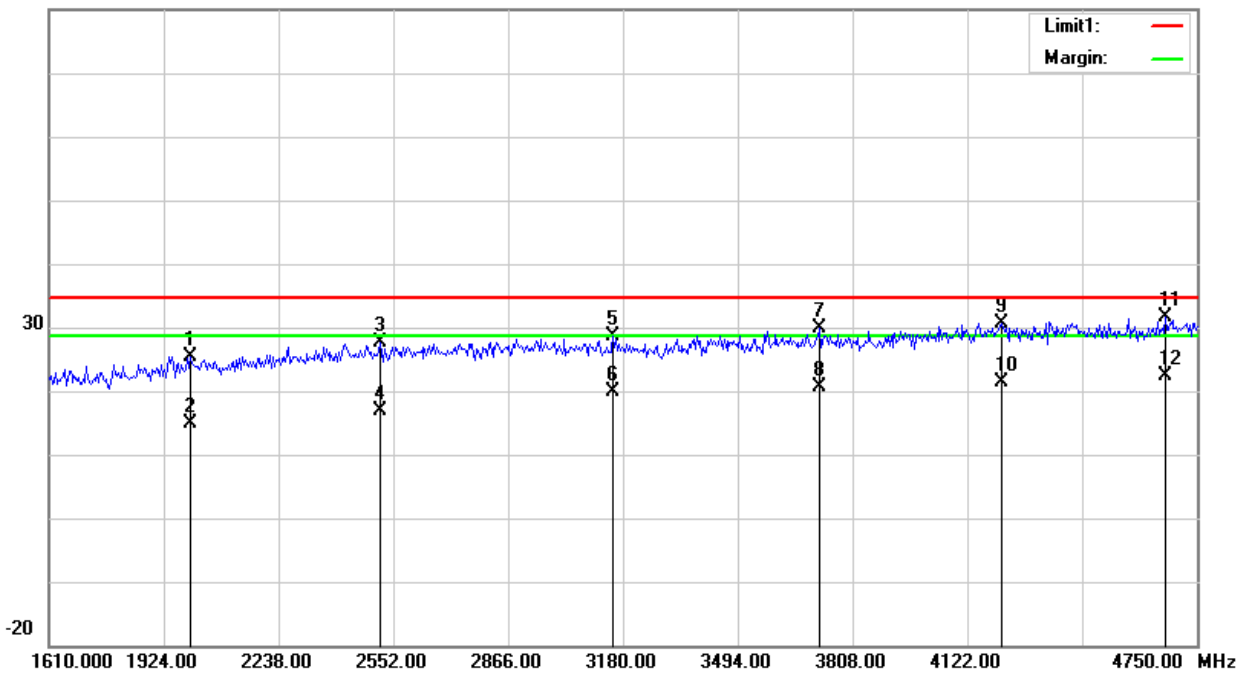
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Horizontal
Test Mode:	CH 1(1610MHz – 4750MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1999.061	41.94	-16.49	25.45	34.74	-9.29	peak
2	1999.061	31.32	-16.49	14.83	34.74	-19.91	RMS
3	2517.810	41.32	-13.79	27.53	34.74	-7.21	peak
4	2517.810	30.62	-13.79	16.83	34.74	-17.91	RMS
5	3154.456	40.80	-12.26	28.54	34.74	-6.20	peak
6	3154.456	32.02	-12.26	19.76	34.74	-14.98	RMS
7	3716.433	40.42	-10.57	29.85	34.74	-4.89	peak
8	3716.433	31.17	-10.57	20.60	34.74	-14.14	RMS
9	4215.532	39.05	-8.44	30.61	34.74	-4.13	peak
10	4215.532	29.72	-8.44	21.28	34.74	-13.46	RMS
11	4663.542	39.08	-7.54	31.54	34.74	-3.20	peak
12	4663.542	29.96	-7.54	22.42	34.74	-12.32	RMS

Remark:

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

80.0 dBuV/m





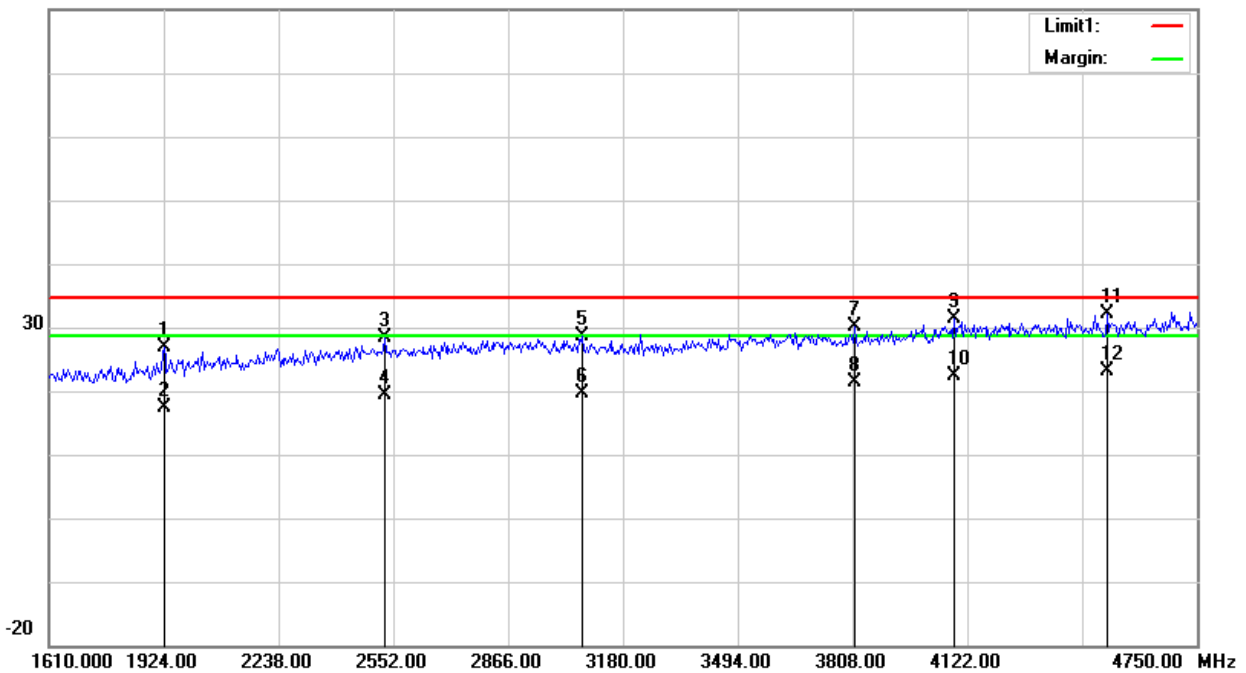
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	CH 1(1610MHz – 4750MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1924.393	43.82	-16.91	26.91	34.74	-7.83	peak
2	1924.393	34.29	-16.91	17.38	34.74	-17.36	RMS
3	2529.599	42.09	-13.75	28.34	34.74	-6.40	peak
4	2529.599	33.01	-13.75	19.26	34.74	-15.48	RMS
5	3067.997	41.00	-12.49	28.51	34.74	-6.23	peak
6	3067.997	32.06	-12.49	19.57	34.74	-15.17	RMS
7	3814.681	40.78	-10.58	30.20	34.74	-4.54	peak
8	3814.681	32.00	-10.58	21.42	34.74	-13.32	RMS
9	4085.845	40.43	-9.17	31.26	34.74	-3.48	peak
10	4085.845	31.56	-9.17	22.39	34.74	-12.35	RMS
11	4506.345	39.97	-7.95	32.02	34.74	-2.72	peak
12	4506.345	31.03	-7.95	23.08	34.74	-11.66	RMS

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:	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	5643.242	50.14	-4.68	45.46	63.44	-17.98	peak
2	5643.242	41.42	-4.68	36.74	63.44	-26.7	RMS
3	6309.512	60.14	-2.41	57.73	63.44	-5.71	peak
4	6309.512	51.33	-2.41	48.92	63.44	-14.52	RMS
5	7510.263	50.33	1.65	51.98	63.44	-11.46	peak
6	7510.263	40.71	1.65	42.36	63.44	-21.08	RMS
7	8271.715	50.42	2.47	52.89	63.44	-10.55	peak
8	8271.715	41.40	2.47	43.87	63.44	-19.57	RMS
9	9369.962	49.55	2.96	52.51	63.44	-10.93	peak
10	9369.962	40.23	2.96	43.19	63.44	-20.25	RMS
11	10351.064	49.74	4.49	54.23	63.44	-9.21	peak
12	10351.064	40.98	4.49	45.47	63.44	-17.97	RMS

Remark:

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

100.0 dBuV/m





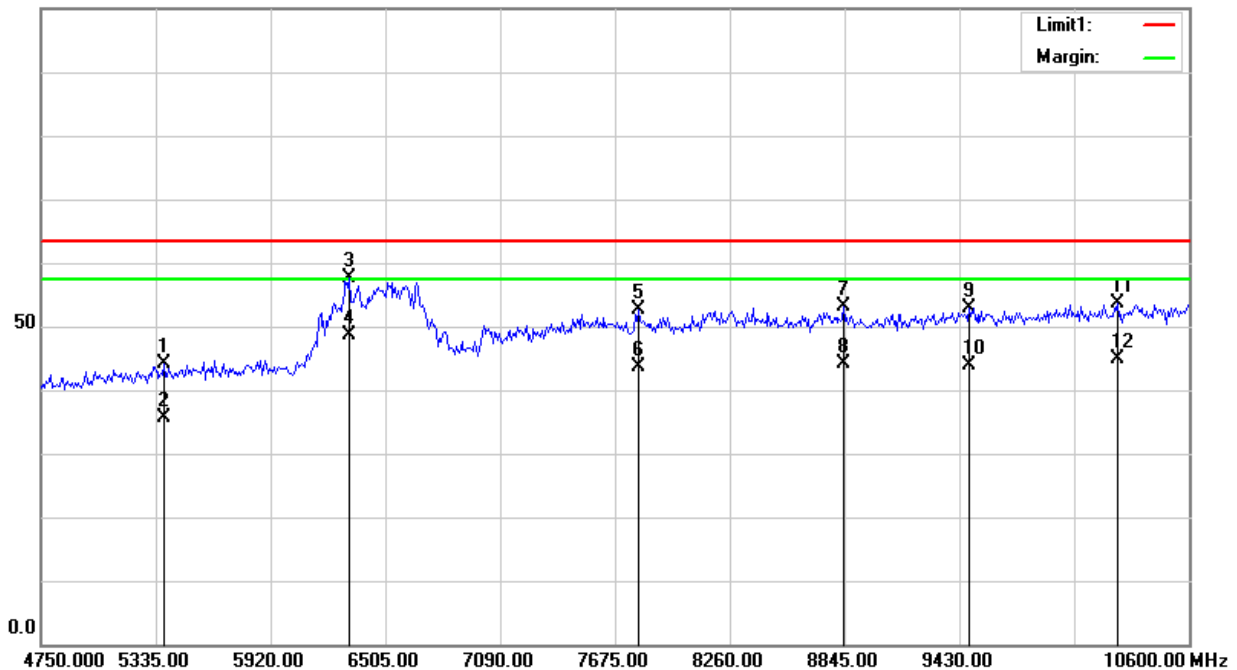
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	CH 1 (4750MHz – 10600MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5379.662	49.42	-5.25	44.17	63.44	-19.27	peak
2	5379.662	40.87	-5.25	35.62	63.44	-27.82	RMS
3	6324.155	59.94	-2.38	57.56	63.44	-5.88	peak
4	6324.155	51.11	-2.38	48.73	63.44	-14.71	RMS
5	7795.807	50.77	1.95	52.72	63.44	-10.72	peak
6	7795.807	41.70	1.95	43.65	63.44	-19.79	RMS
7	8842.803	50.68	2.54	53.22	63.44	-10.22	peak
8	8842.803	41.55	2.54	44.09	63.44	-19.35	RMS
9	9479.787	49.68	3.12	52.80	63.44	-10.64	peak
10	9479.787	40.69	3.12	43.81	63.44	-19.63	RMS
11	10233.917	49.42	4.12	53.54	63.44	-9.90	peak
12	10233.917	40.87	4.12	44.99	63.44	-18.45	RMS

Remark:

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

100.0 dBuV/m





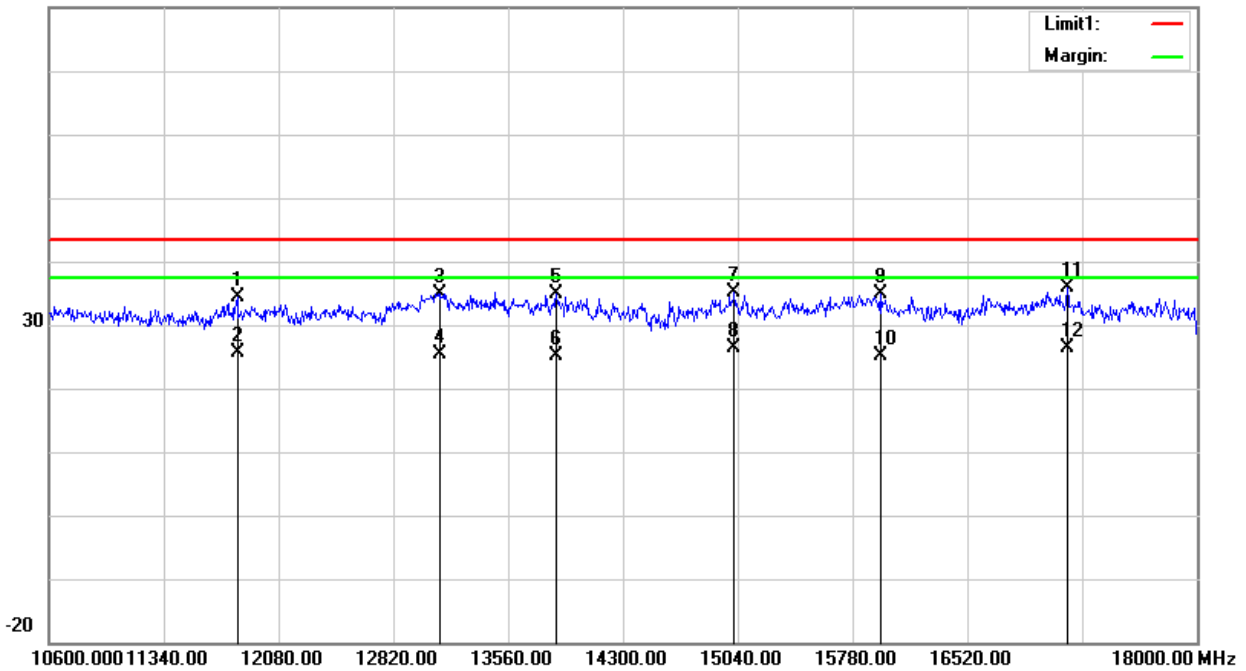
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Horizontal
Test Mode:	CH 1 (10600MHz – 18000MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11813.600	-4.42	38.77	34.35	43.44	-9.09	peak
2	11813.600	-13.16	38.77	25.61	43.44	-17.83	RMS
3	13123.400	-4.29	39.22	34.93	43.44	-8.51	peak
4	13123.400	-13.75	39.22	25.47	43.44	-17.97	RMS
5	13870.800	-6.21	41.16	34.95	43.44	-8.49	peak
6	13870.800	-16.01	41.16	25.15	43.44	-18.29	RMS
7	15017.800	-5.11	40.14	35.03	43.44	-8.41	peak
8	15017.800	-13.84	40.14	26.30	43.44	-17.14	RMS
9	15957.600	-2.26	37.23	34.97	43.44	-8.47	peak
10	15957.600	-11.99	37.23	25.24	43.44	-18.20	RMS
11	17163.800	-6.03	41.88	35.85	43.44	-7.59	peak
12	17163.800	-15.59	41.88	26.29	43.44	-17.15	RMS

Remark:

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

80.0 dBuV/m



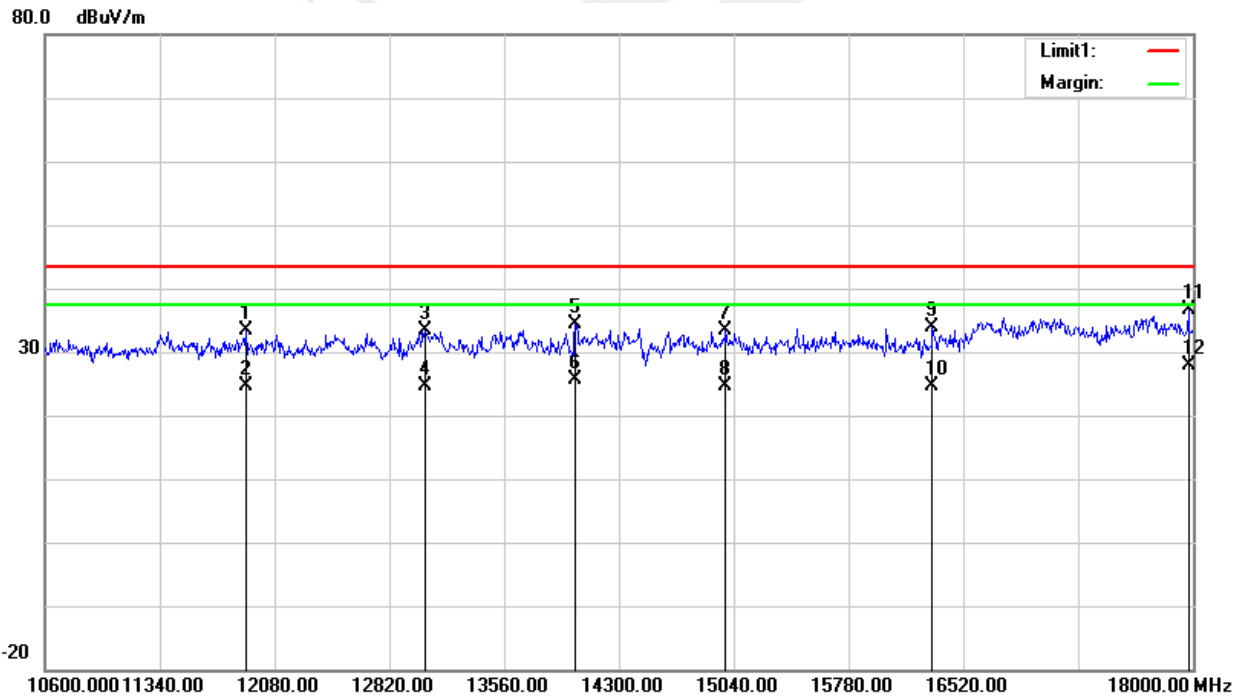


Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	CH 1 (10600MHz – 18000MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11895.000	-5.24	38.69	33.45	43.44	-9.99	peak
2	11895.000	-14.08	38.69	24.61	43.44	-18.83	RMS
3	13049.400	-5.76	39.03	33.27	43.44	-10.17	peak
4	13049.400	-14.30	39.03	24.73	43.44	-18.71	RMS
5	14018.800	-7.07	41.48	34.41	43.44	-9.03	peak
6	14018.800	-15.85	41.48	25.63	43.44	-17.81	RMS
7	14988.200	-6.81	40.22	33.41	43.44	-10.03	peak
8	14988.200	-15.50	40.22	24.72	43.44	-18.72	RMS
9	16320.200	-4.11	37.96	33.85	43.44	-9.59	peak
10	16320.200	-13.27	37.96	24.69	43.44	-18.75	RMS
11	17970.400	-3.89	40.48	36.59	43.44	-6.85	peak
12	17970.400	-12.68	40.48	27.80	43.44	-15.64	RMS

Remark:

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





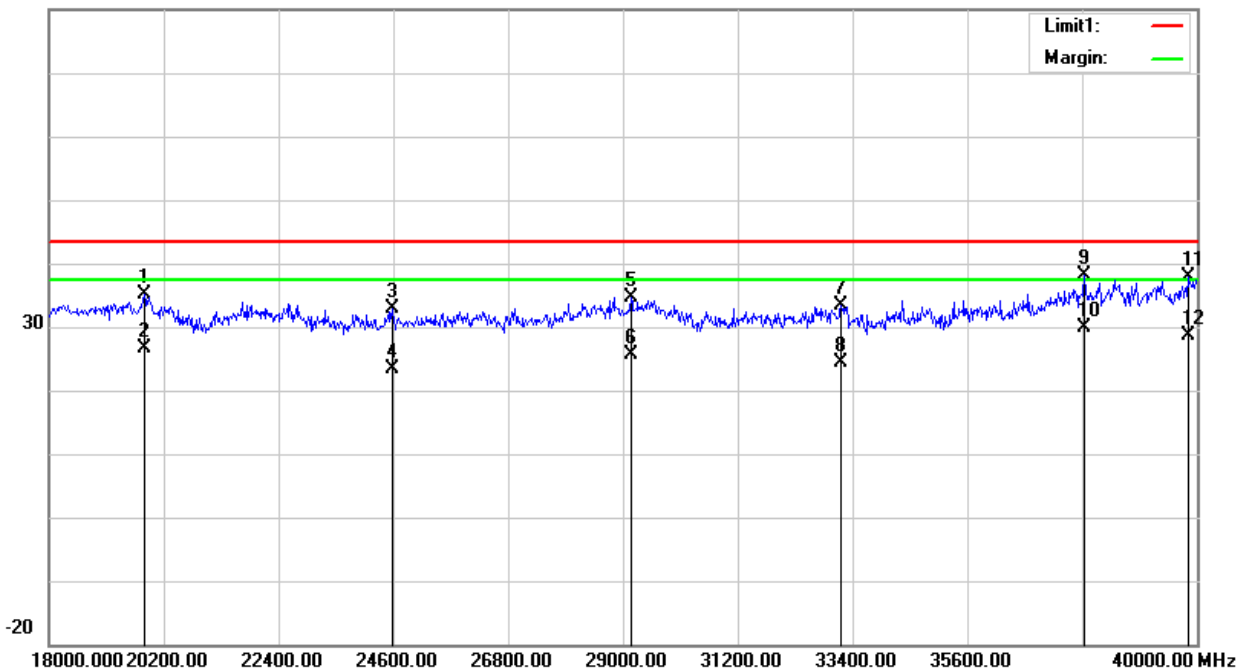
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Horizontal
Test Mode:	CH 1 (10600MHz – 18000MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	19826.000	43.52	-8.50	35.02	43.44	-8.42	peak
2	19826.000	35.14	-8.50	26.64	43.44	-16.80	RMS
3	24578.000	42.64	-9.87	32.77	43.44	-10.67	peak
4	24578.000	33.32	-9.87	23.45	43.44	-19.99	RMS
5	29154.000	43.35	-8.71	34.64	43.44	-8.80	peak
6	29154.000	34.42	-8.71	25.71	43.44	-17.73	RMS
7	33180.000	45.72	-12.42	33.30	43.44	-10.14	peak
8	33180.000	36.81	-12.42	24.39	43.44	-19.05	RMS
9	37844.000	47.80	-9.56	38.24	43.44	-5.20	peak
10	37844.000	39.38	-9.56	29.82	43.44	-13.62	RMS
11	39824.000	47.76	-9.85	37.91	43.44	-5.53	peak
12	39824.000	38.55	-9.85	28.70	43.44	-14.74	RMS

Remark:

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

80.0 dBuV/m





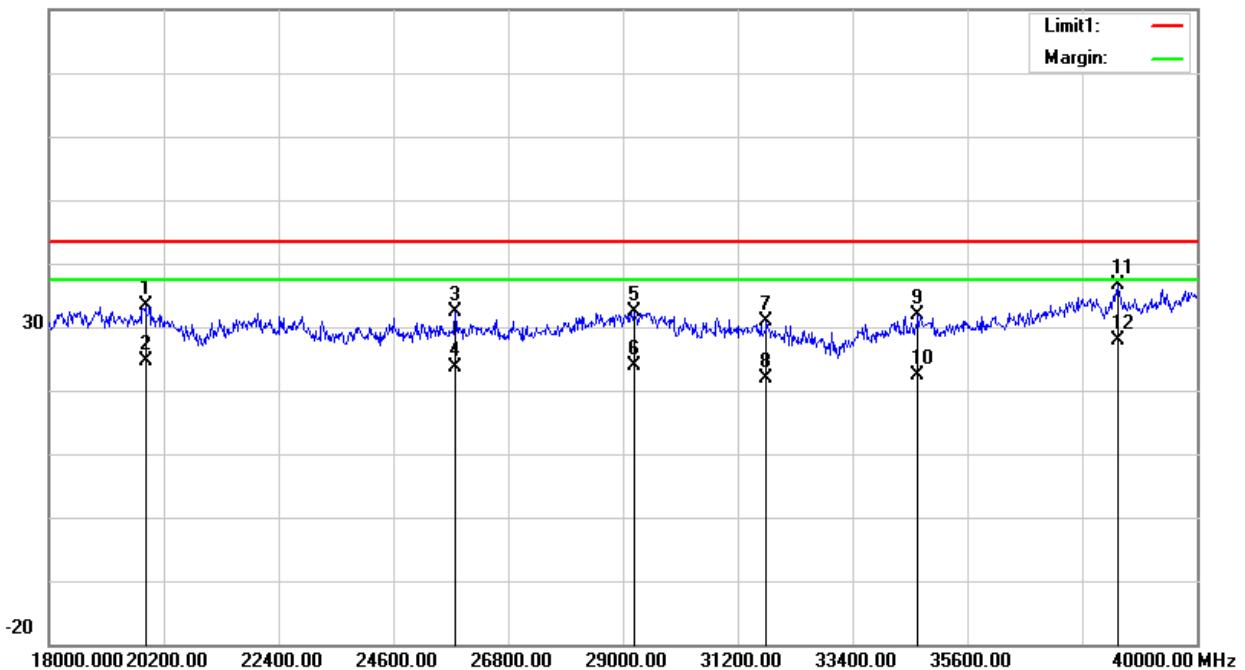
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	CH 1 (10600MHz – 18000MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	19848.000	41.84	-8.50	33.34	43.44	-10.10	peak
2	19848.000	33.25	-8.50	24.75	43.44	-18.69	RMS
3	25788.000	41.83	-9.46	32.37	43.44	-11.07	peak
4	25788.000	33.10	-9.46	23.64	43.44	-19.80	RMS
5	29220.000	41.15	-8.81	32.34	43.44	-11.10	peak
6	29220.000	32.68	-8.81	23.87	43.44	-19.57	RMS
7	31750.000	41.57	-10.63	30.94	43.44	-12.50	peak
8	31750.000	32.59	-10.63	21.96	43.44	-21.48	RMS
9	34654.000	42.08	-10.32	31.76	43.44	-11.68	peak
10	34654.000	32.67	-10.32	22.35	43.44	-21.09	RMS
11	38482.000	46.39	-9.79	36.60	43.44	-6.84	peak
12	38482.000	37.70	-9.79	27.91	43.44	-15.53	RMS

Remark:

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

80.0 dBuV/m





3.3 RADIATED EMISSION MEASUREMENT (FOR 15.519(d)&RSS 220 5.3.1(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 $E(\text{dBuV/m}) = P(\text{dBmEIRP}) + 95.3$.

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

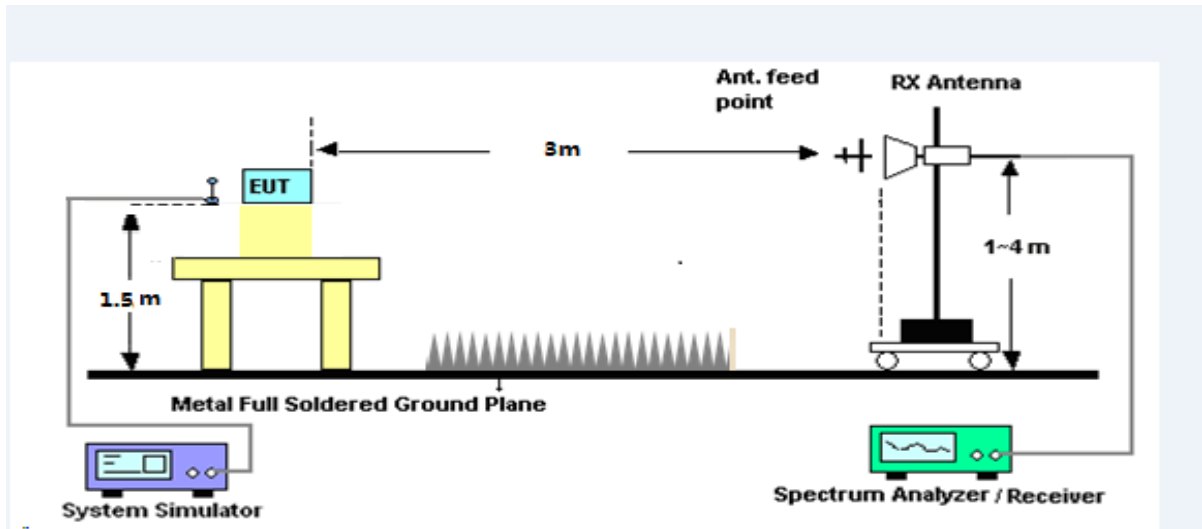
3.3.2 TEST PROCEDURE

- a. The measuring distance of 1m shall be used for measurements. The EUT was placed on the top of 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.
- 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. 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)
- d. 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

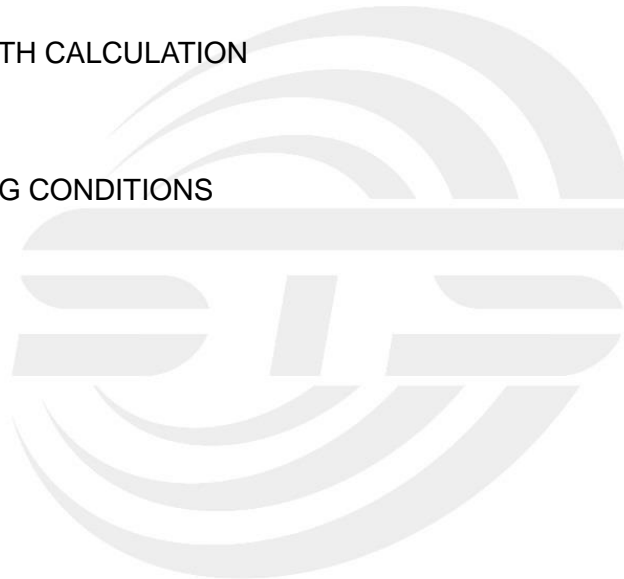


3.3.5 FIELD STRENGTH CALCULATION

Same as 3.2.5

3.3.6 EUT OPERATING CONDITIONS

Same as 3.2.6





3.3.7 TEST RESULTS

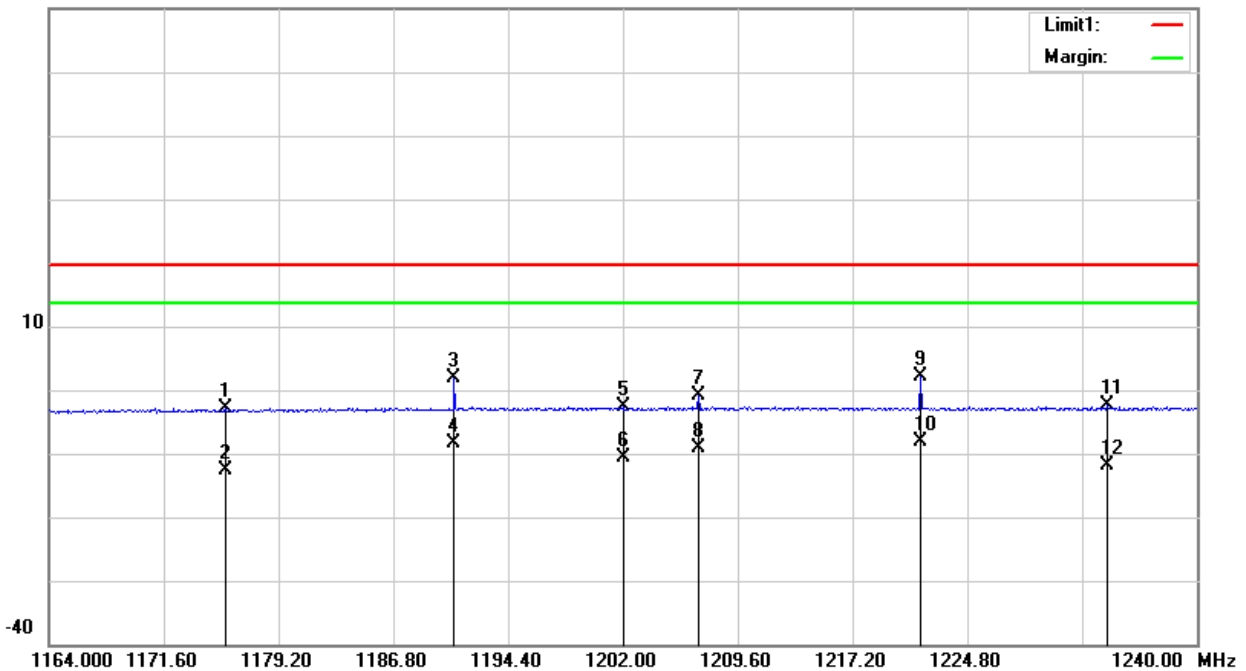
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Horizontal
Test Mode:	CH 1(1164Hz – 1240MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1175.704	-2.25	-0.66	-2.91	19.54	-22.45	peak
2	1175.704	-11.95	-0.66	-12.61	19.54	-32.15	RMS
3	1190.828	2.50	-0.52	1.98	19.54	-17.56	peak
4	1190.828	-7.80	-0.52	-8.32	19.54	-27.86	RMS
5	1202.076	-2.20	-0.43	-2.63	19.54	-22.17	peak
6	1202.076	-10.09	-0.43	-10.52	19.54	-30.06	RMS
7	1207.016	-0.48	-0.44	-0.92	19.54	-20.46	peak
8	1207.016	-8.59	-0.44	-9.03	19.54	-28.57	RMS
9	1221.684	2.48	-0.46	2.02	19.54	-17.52	peak
10	1221.684	-7.68	-0.46	-8.14	19.54	-27.68	RMS
11	1234.072	-2.00	-0.48	-2.48	19.54	-22.02	peak
12	1234.072	-11.32	-0.48	-11.80	19.54	-31.34	RMS

Remark:

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

60.0 dBuV/m





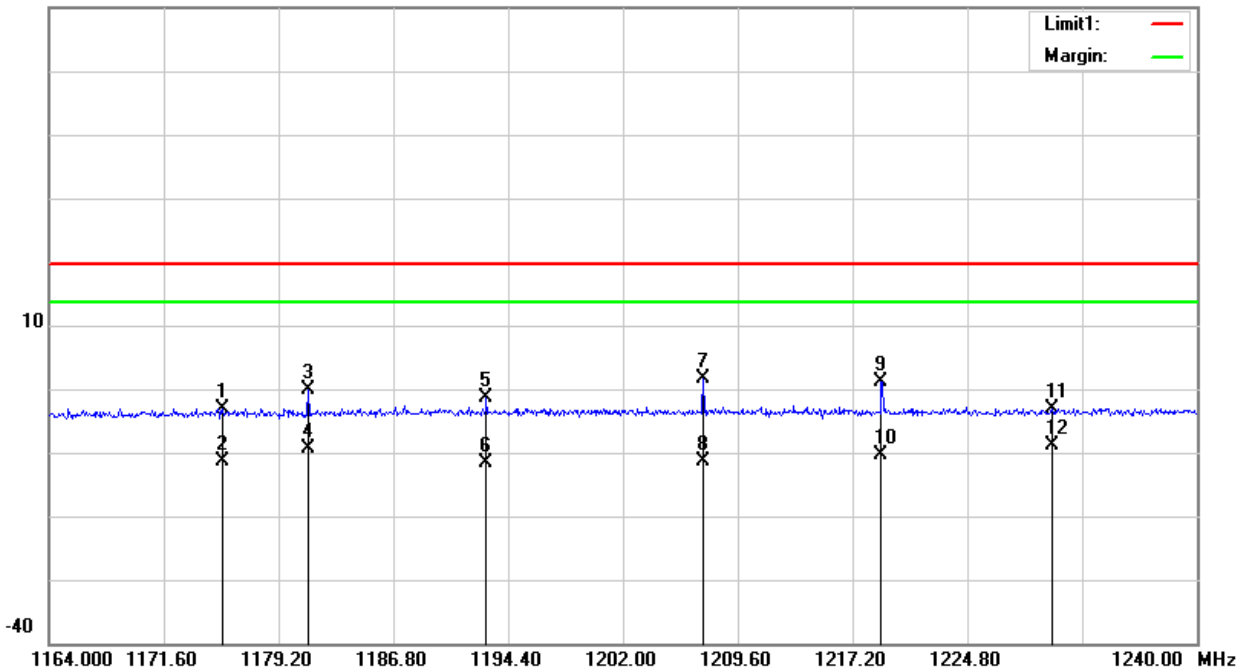
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	CH 1(1164Hz – 1240MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1175.476	-2.37	-0.66	-3.03	19.54	-22.57	peak
2	1175.476	-10.66	-0.66	-11.32	19.54	-30.86	RMS
3	1181.176	0.45	-0.60	-0.15	19.54	-19.69	peak
4	1181.176	-8.83	-0.60	-9.43	19.54	-28.97	RMS
5	1192.956	-0.96	-0.49	-1.45	19.54	-20.99	peak
6	1192.956	-11.14	-0.49	-11.63	19.54	-31.17	RMS
7	1207.320	1.97	-0.44	1.53	19.54	-18.01	peak
8	1207.320	-10.85	-0.44	-11.29	19.54	-30.83	RMS
9	1219.100	1.61	-0.46	1.15	19.54	-18.39	peak
10	1219.100	-9.91	-0.46	-10.37	19.54	-29.91	RMS
11	1230.424	-2.66	-0.48	-3.14	19.54	-22.68	peak
12	1230.424	-8.44	-0.48	-8.92	19.54	-28.46	RMS

Remark:

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

60.0 dBuV/m





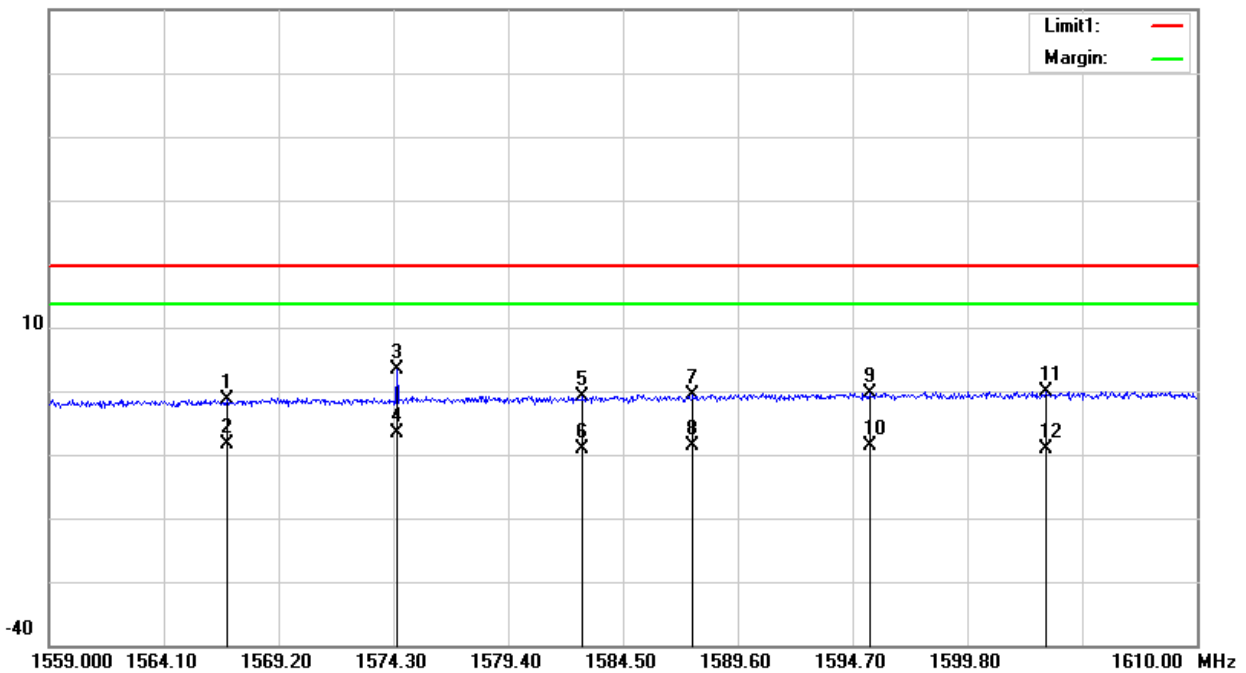
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Horizontal
Test Mode:	CH 1(1559Hz – 1610MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1566.905	-4.68	3.20	-1.48	19.54	-21.02	peak
2	1566.905	-11.52	3.20	-8.32	19.54	-27.86	RMS
3	1574.453	-0.01	3.44	3.43	19.54	-16.11	peak
4	1574.453	-10.12	3.44	-6.68	19.54	-26.22	RMS
5	1582.715	-4.56	3.70	-0.86	19.54	-20.40	peak
6	1582.715	-12.73	3.70	-9.03	19.54	-28.57	RMS
7	1587.611	-4.52	3.85	-0.67	19.54	-20.21	peak
8	1587.611	-12.47	3.85	-8.62	19.54	-28.16	RMS
9	1595.465	-4.52	4.09	-0.43	19.54	-19.97	peak
10	1595.465	-12.76	4.09	-8.67	19.54	-28.21	RMS
11	1603.268	-4.39	4.24	-0.15	19.54	-19.69	peak
12	1603.268	-13.32	4.24	-9.08	19.54	-28.62	RMS

Remark:

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

60.0 dBuV/m





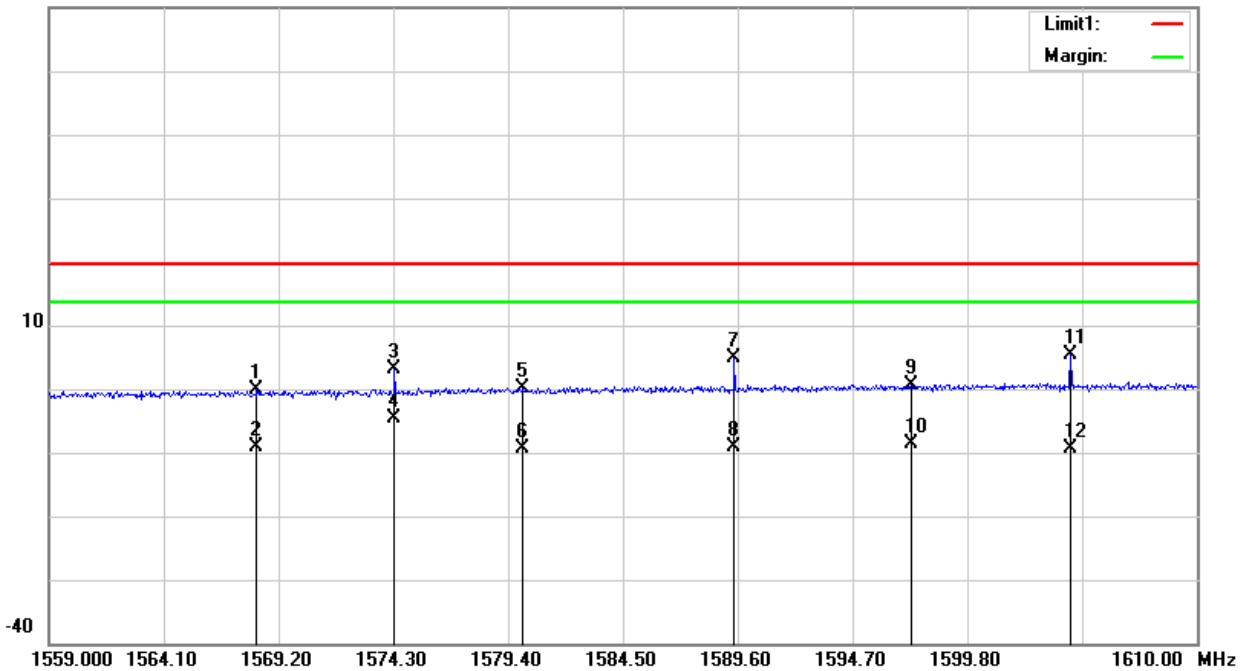
Temperature:	23.1(C)	Relative Humidity:	60%RH
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	CH 1(1559Hz – 1610MHz)	Test distance:	1m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1568.231	-3.45	3.24	-0.21	19.54	-19.75	peak
2	1568.231	-12.41	3.24	-9.17	19.54	-28.71	RMS
3	1574.351	-0.41	3.44	3.03	19.54	-16.51	peak
4	1574.351	-8.12	3.44	-4.68	19.54	-24.22	RMS
5	1580.063	-3.38	3.61	0.23	19.54	-19.31	peak
6	1580.063	-13.03	3.61	-9.42	19.54	-28.96	RMS
7	1589.447	0.97	3.91	4.88	19.54	-14.66	peak
8	1589.447	-13.00	3.91	-9.09	19.54	-28.63	RMS
9	1597.301	-3.44	4.15	0.71	19.54	-18.83	peak
10	1597.301	-12.88	4.15	-8.73	19.54	-28.27	RMS
11	1604.390	1.18	4.24	5.42	19.54	-14.12	peak
12	1604.390	-13.52	4.24	-9.28	19.54	-28.82	RMS

Remark:

- Margin = Result (Result =Reading + Factor)-Limit
- 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

- a. The measuring distance of 1m shall be used for measurements. The EUT was placed on the top of arotating 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.
- 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. 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 .
- d. For the actual test configuration, please refer to the related Item –EUT Test Photos.
- e. The Spectrum Analyzer system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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

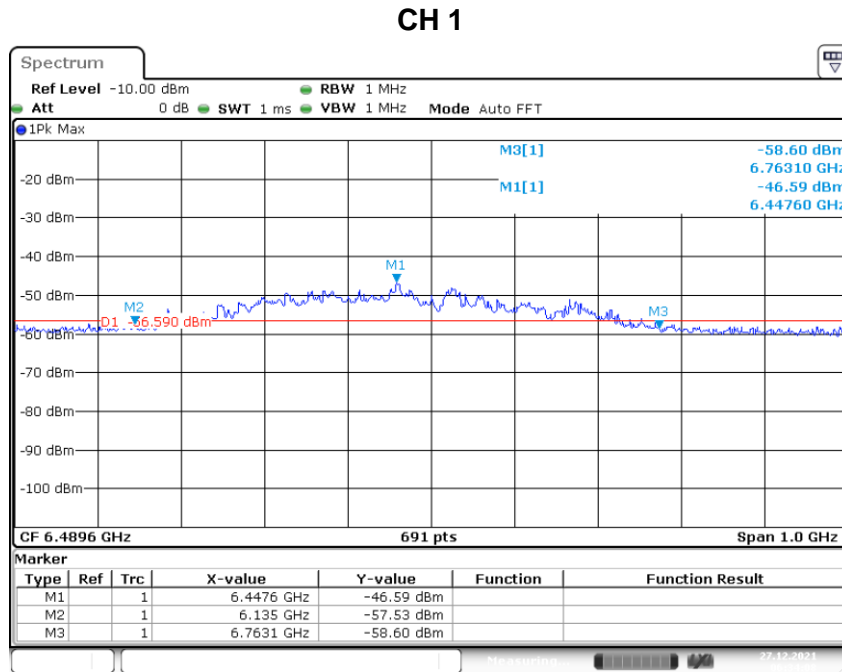
Same as 3.2.6



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	6447.6	6135	6763.1	628.1	6449.1	0.10	-10dB Bandwidth ≥ 500MHz or Fractional Bandwidth ≥ 0.2	Pass



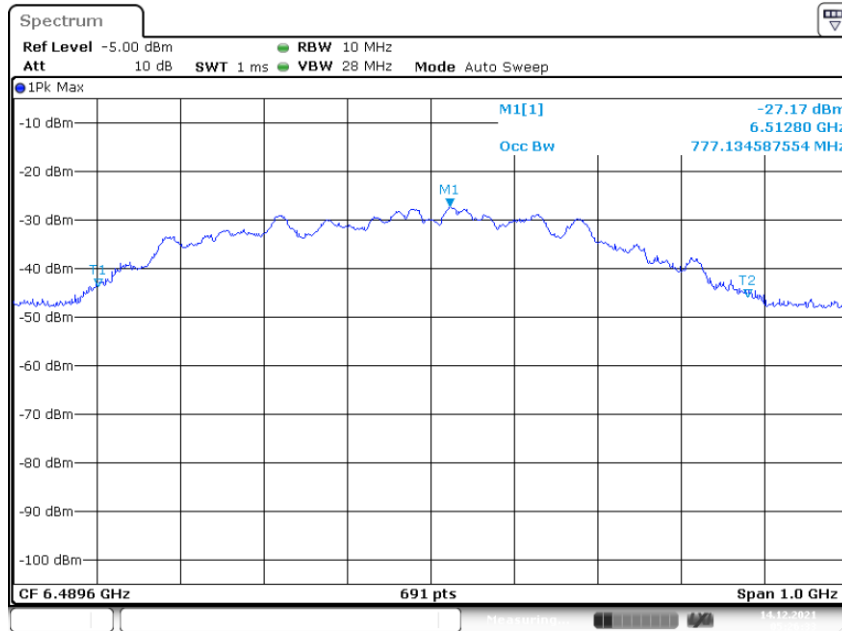
Date: 27.DEC.2021 06:34:08



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

Frequency (MHz)	99% Bandwidth (MHz)	Result
6489.6	777.13	PASS

CH 1



Date: 14.DEC.2021 05:26:33



5 PEAK EMISSION WITHIN A 50MHZ BANDWIDTH (FOR 15.519(e) & RSS-220

5.3.1(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

$$E(\text{dBuV/m}) = P(\text{dBm EIRP}) + 95.3 = -34 + 95.3 = 61.3 \text{ dBuV/m}$$

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

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



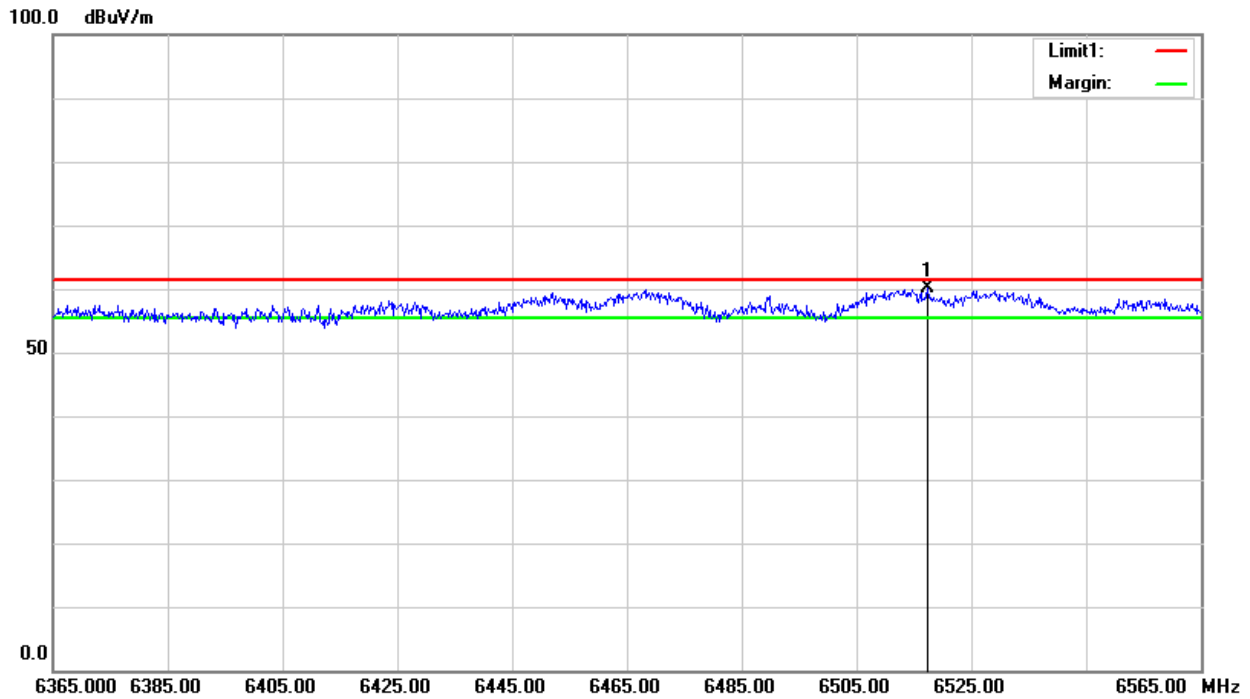
5.8 TEST RESULTS

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	6517.400	62.03	-1.91	60.12	61.30	-1.18	peak

Remark:

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



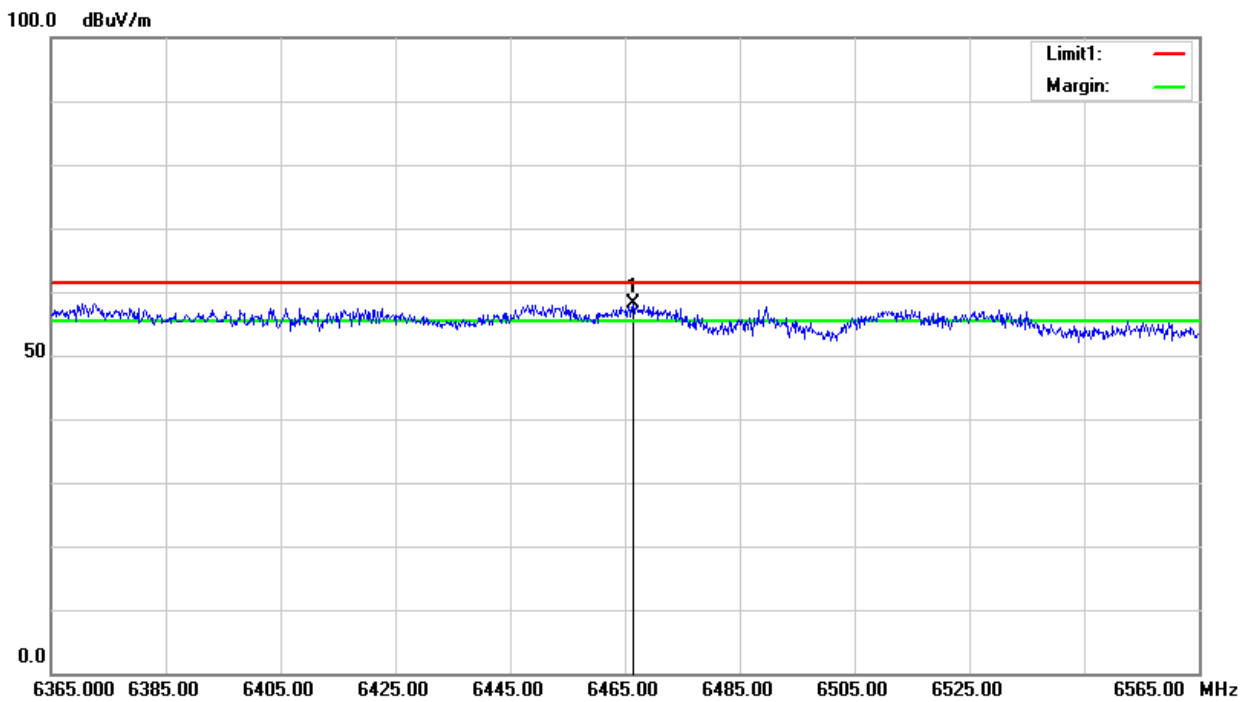


Temperature:	23.5(C)	Relative Humidity:	62%RH
Test Voltage:	DC 3.7V	Phase:	Vertical
Test Mode:	CH 1	Test distance:	3m

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6466.400	60.06	-2.04	58.02	61.30	-3.28	peak

Remark:

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



6 CESSATION TIME

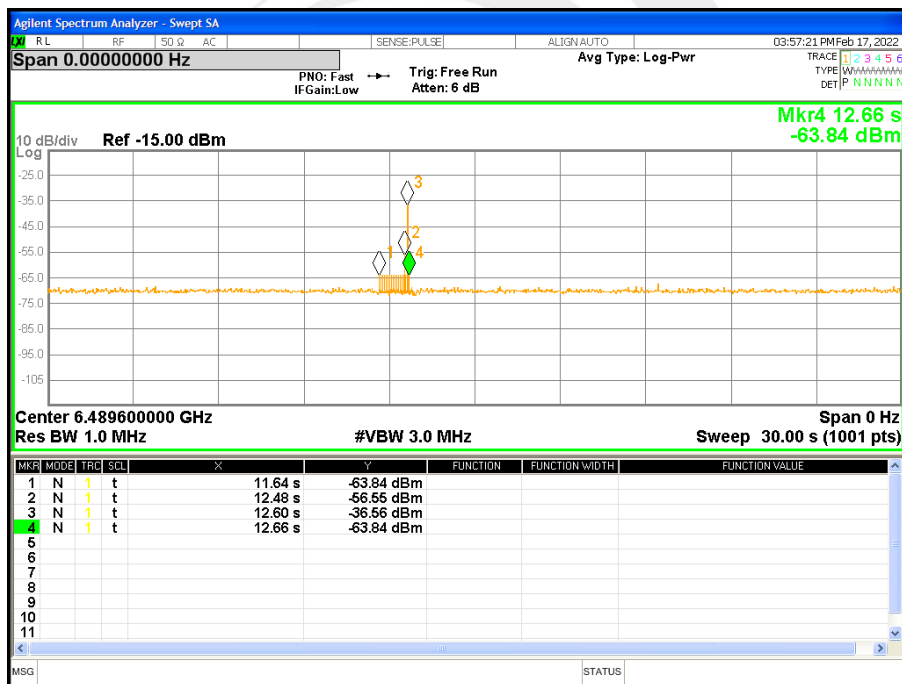
6.1 LIMIT

FCC Part 15.519(a)(1) & RSS-220 (5.3.1(b)): A UWB device operating under the provisions of this section shall transmit only when it is sending information to an associated receiver. The UWB intentional radiator shall cease transmission within 10 seconds unless it receives an acknowledgement from the associated receiver that its transmission is being received. An acknowledgment of reception must continue to be received by the UWB intentional radiator at least every 10 seconds or the UWB device must cease transmitting.

6.2 TEST PROCEDURE

- Step 1: EUT and receiver are turned on;
- Step 2: The EUT sends a Ping signal to the receiver;
- Step 3: Wait for the receiver to send an Ack signal;
- Step 4: EUT sends data signal to receiver;
- Step 5: The EUT cease transmitting after not receiving the Ack signal from the receiver.

6.3 TEST RESULTS



Shutdown time = Mark4-Mark1 = 12.66 s-11.64 s = 1.02 s < 10 s

- Mark1: EUT and receiver are turned on;
- Mark2: The EUT sends a Ping signal to the receiver;
- Mark2 to Mark3: EUT Wait for the receiver to send an Ack signal;
- Mark3: EUT sends data signal to receiver;
- Mark4: EUT completes data transmission;
- After Mark4: EUT transmission is ceased.

Results: PASS



7. ANTENNA REQUIREMENT

7.1 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.

7.2 EUT ANTENNA

The EUT antenna is Chip 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*****

