FCC RADIO TEST REPORT
FCC ID:2ABDB-T2U

Product：	USB Dongle
Trade Name：	N/A
Model Name：	T2
Serial Model：	N/A
Report No.：	NTEK-2015NT07132243F1

Prepared for

SHENZHEN SUNGI TECHNOLOGY CO.,LTD.

4F,20th BLD,Xiaweiyuan,Gushu,Bao'an district,Shenzhen,China

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name	:	SHENZHEN SUNGI TECHNOLOGY CO.,LTD.
Address	:	4F,20th BLD,Xiaweiyuan,Gushu,Bao'an district,Shenzhen,China
Manufacture's Name	:	SHENZHEN SUNGI TECHNOLOGY CO.,LTD.
Address	:	4F,20th BLD,Xiaweiyuan,Gushu,Bao'an district,Shenzhen,China

Product description

Product name	:	USB Dongle
Model and/or type reference	:	T2
Serial Model：		N/A
Rating(s)	:	DC 5.0V
Standards	:	FCC Part15.249 01 Oct. 2014
Test procedure		ANSI C63.10-2013

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

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Date of Test	:	
Date (s) of performance of tests	:	13 Jul. 2015 ~18 Aug. 2015
Date of Issue	:	18 Aug. 2015
Test Result	:	**Pass**

Testing Engineer : Eileen Liu.

(Eileen Liu)

Technical Manager : Brown Lu

(Brown Lu)

Authorized Signatory : Sam. Chen

(Sam Chen)

Table of Contents Page

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15, Subpart C (15.249)			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	Pass	
15.203	Antenna Requirement	Pass	
15.249	Radiated Spurious Emission	Pass	
15.249	Fundamental Measurement	Pass	
15.205	Band Edge Emission	Pass	
15.249	Occupied Bandwidth	Pass	

1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd
Add. : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.
FCC FRN Registration No.:238937; IC Registration No.:9270A-1
CNAS Registration No.:L5516

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y ± 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	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	USB Dongle
Trade Name	N/A
Model Name	T2
Serial Model	N/A
Model Difference	N/A
Product Description	The EUT is a USB Dongle Operation Frequency: 2410-2473MHz Modulation Type: GFSK Antenna Designation: PCB Antenna Antenna Gain(Peak) 0 dBi Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.
Channel List	Please refer to the Note 2.
Adapter	N/A
Battery	N/A

Note:

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

2.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2413	09	2444
02	2431	10	2419
03	2436	11	2473
04	2410	12	2454
05	2465	13	2469
06	2427	14	2458
07	2442	15	2420
08	2416	16	2440

3.

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	PCB Antenna	N/A	0	Antenna

2.2 DESCRIPTION OF TEST MODES

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

Pretest Mode	Description
Mode 1	CH 04
Mode 2	CH 07
Mode 3	CH 11
Mode 4	Link Mode

For Conducted Emission	
Final Test Mode	Description
Mode 4	Link Mode

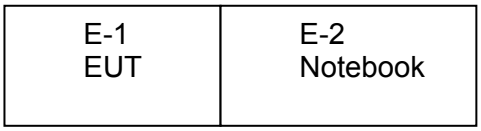
For Radiated Emission	
Final Test Mode	Description
Mode 1	CH 04
Mode 2	CH 07
Mode 3	CH 11

Note:

(1) The measurements are performed at the highest, middle, lowest available channels.

(2) The EUT use new battery.

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	USB Dongle	N/A	T2	N/A	EUT
E-2	Notebook	Lenove	Thinkpad Edge E430	N/A	

Item	Shielded Type	Ferrite Core	Length	Note

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.

2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	Agilent	E4407B	160400005	Jul. 06. 2016
2	Test Receiver	R&S	ESPI	101318	Jul. 06. 2016
3	Bilog Antenna	TESEQ	CBL6111D	31216	Jul. 06. 2016
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	Jul. 06. 2016
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	Jul. 06. 2016
6	Horn Antenna	EM	EM-AH-10180	2011071402	Jul. 06. 2016
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	Jul. 06. 2016
8	Amplifier	EM	EM-30180	060538	Jul. 06. 2016
9	Loop Antenna	ARA	PLA-1030/B	1029	Jul. 06. 2016
10	Power Meter	R&S	NRVS	100696	Jul. 06. 2016

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Test Receiver	R&S	ESCI	101160	Jul. 06. 2016
2	LISN	R&S	ENV216	101313	Jul. 06. 2016
3	LISN	EMCO	3816/2	00042990	Jul. 06. 2016
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	Jul. 06. 2016
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	Jul. 06. 2016
6	Absorbing clamp	R&S	MOS-21	100423	Jul. 06. 2016

3. ANTENNA REQUIREMENT

3.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

3.2 EUT ANTENNA

The EUT antenna is permanent attached antenna. It comply with the standard requirement.

3.3 CONDUCTED EMISSION MEASUREMENT

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

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

0.15 -0.5			66 - 56 *	56 - 46 *	LP002.
0.50 -5.0			56.00	46.00	LP002.
5.0 -30.0			60.00	50.00	LP002.

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

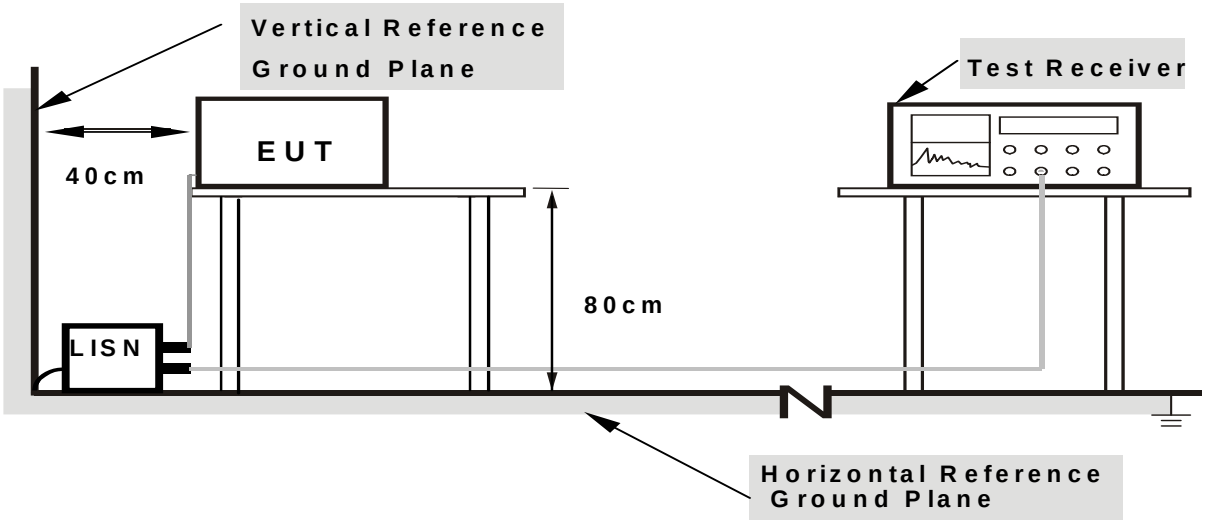
3.3.2 TEST PROCEDURE

a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.3.3 DEVIATION FROM TEST STANDARD

No deviation

3.3.4 TEST SETUP



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

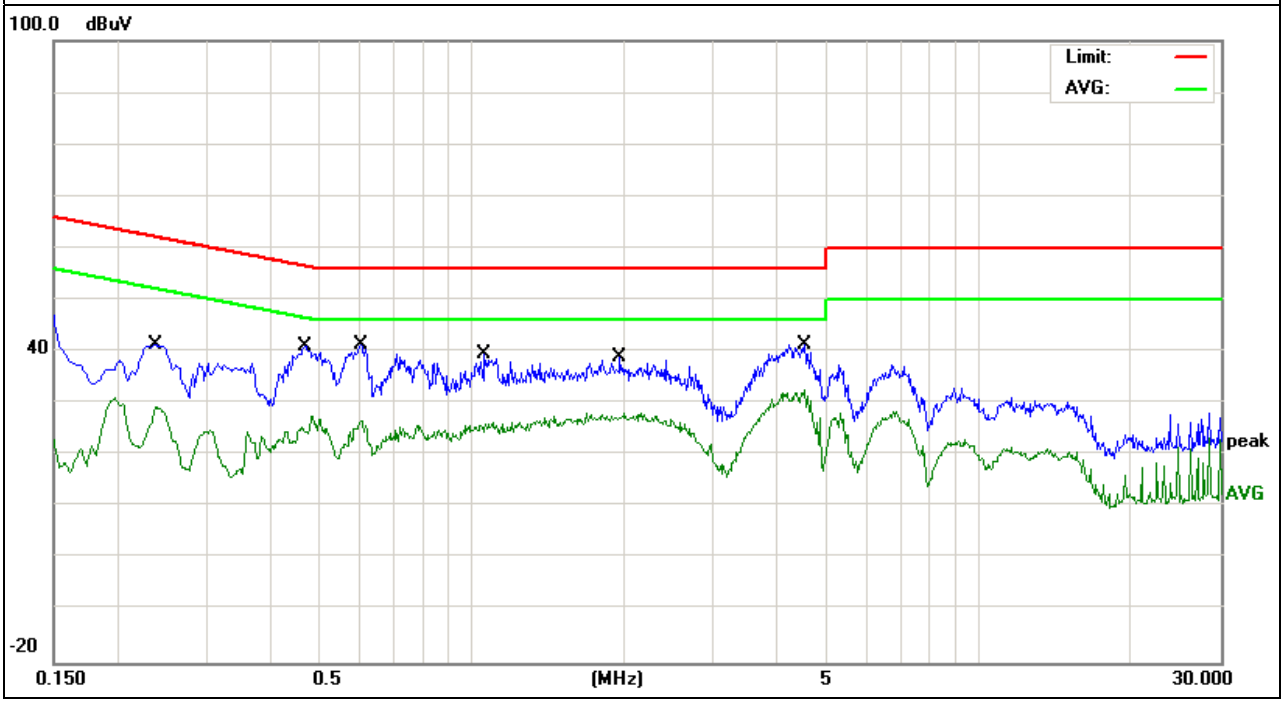
3.2.5 TEST RESULT

EUT：	USB Dongle	Model Name. ：	T2
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010hPa	Phase：	L
Test Voltage ：	DC 5.0V form PC AC 120V/60Hz	Test Mode：	Mode 4

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.2380	31.69	9.66	41.35	62.16	-20.81	QP
0.2380	19.67	9.66	29.33	52.16	-22.83	AVG
0.4700	31.36	9.64	41.00	56.51	-15.51	QP
0.4700	17.87	9.64	27.51	46.51	-19.00	AVG
0.6060	31.46	9.77	41.23	56.00	-14.77	QP
0.6060	16.87	9.77	26.64	46.00	-19.36	AVG
1.0620	29.94	9.73	39.67	56.00	-16.33	QP
1.0620	16.73	9.73	26.46	46.00	-19.54	AVG
1.9660	29.37	9.65	39.02	56.00	-16.98	QP
1.9660	18.50	9.65	28.15	46.00	-17.85	AVG
4.5299	31.70	9.70	41.40	56.00	-14.60	QP
4.5299	22.90	9.70	32.60	46.00	-13.40	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

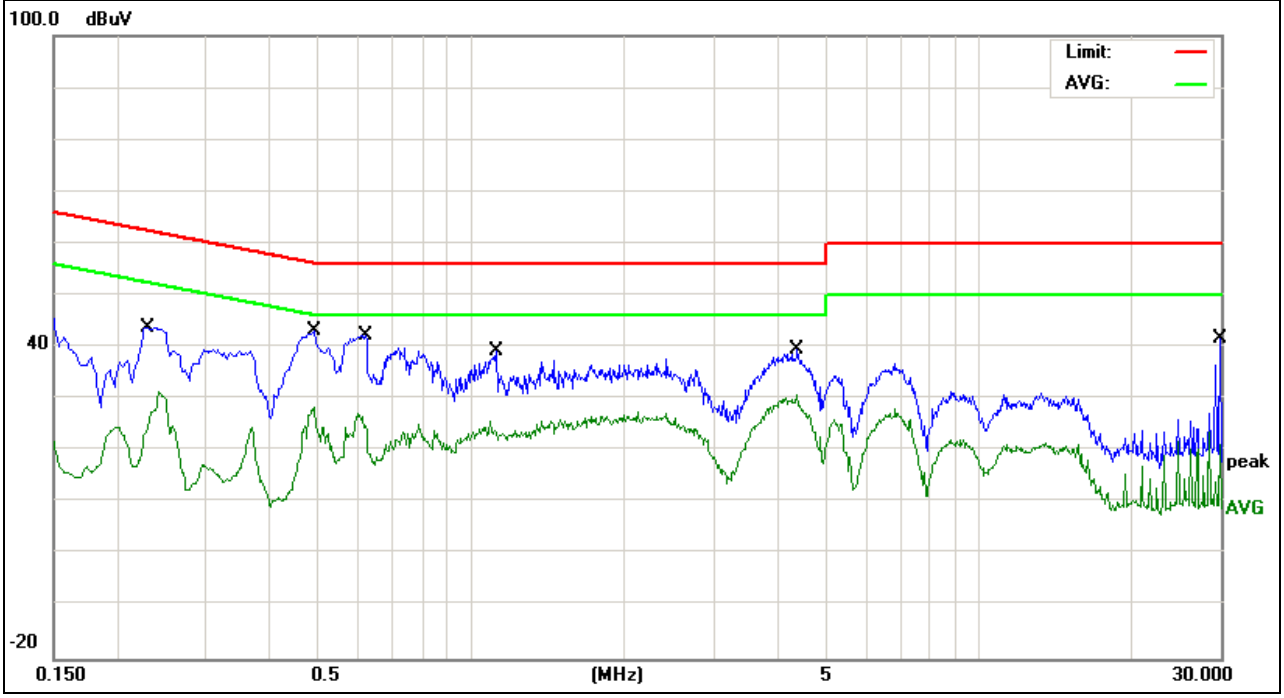


EUT：	USB Dongle	Model Name. ：	T2
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010hPa	Phase：	N
Test Voltage ：	DC 5.0V form PC AC 120V/60Hz	Test Mode：	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.2300	34.09	9.61	43.70	62.45	-18.75	QP
0.2300	21.78	9.61	31.39	52.45	-21.06	AVG
0.4900	33.59	9.68	43.27	56.17	-12.90	QP
0.4900	18.83	9.68	28.51	46.17	-17.66	AVG
0.6180	32.74	9.65	42.39	56.00	-13.61	QP
0.6180	17.49	9.65	27.14	46.00	-18.86	AVG
1.1220	29.58	9.60	39.18	56.00	-16.82	QP
1.1220	16.11	9.60	25.71	46.00	-20.29	AVG
4.3819	29.95	9.51	39.46	56.00	-16.54	QP
4.3819	21.39	9.51	30.90	46.00	-15.10	AVG
29.9860	31.59	10.02	41.61	60.00	-18.39	QP
29.9860	13.53	10.02	23.55	50.00	-26.45	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

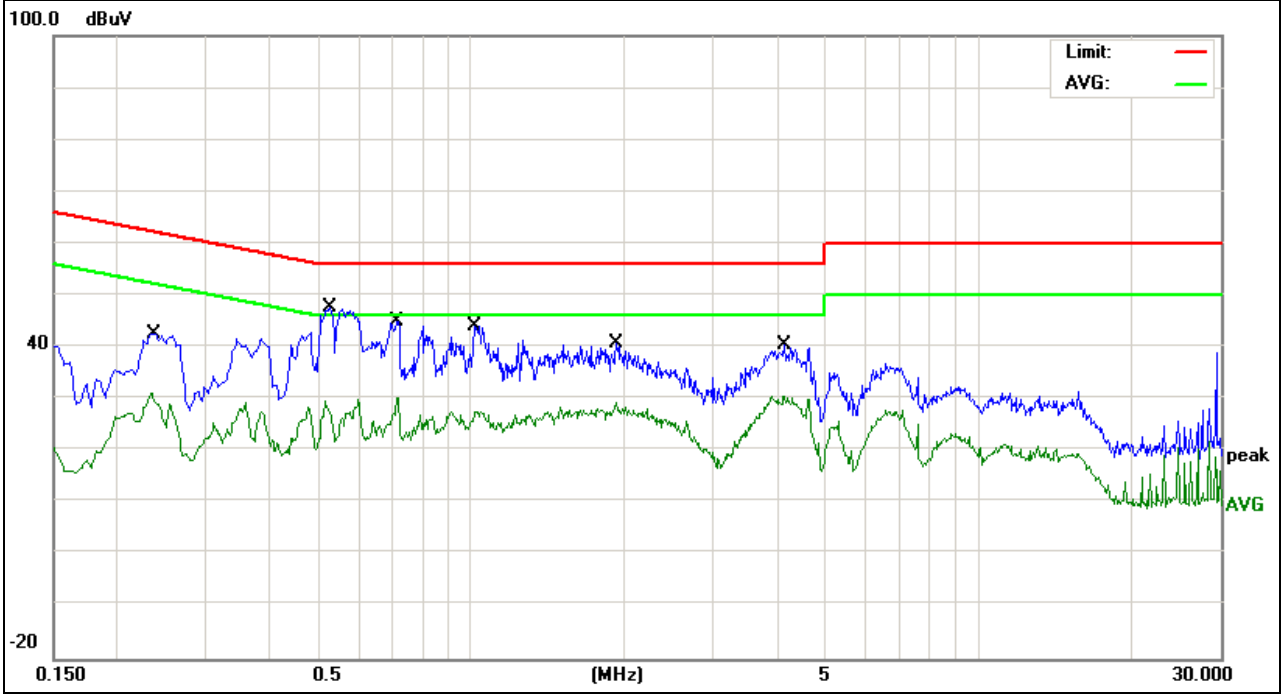


EUT：	USB Dongle	Model Name. ：	T2
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010hPa	Phase：	L
Test Voltage ：	DC 5.0V form PC AC 240V/60Hz	Test Mode：	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.2340	33.04	9.65	42.69	62.30	-19.61	QP
0.2340	21.59	9.65	31.24	52.30	-21.06	AVG
0.5260	37.76	9.77	47.53	56.00	-8.47	QP
0.5260	19.97	9.77	29.74	46.00	-16.26	AVG
0.7140	35.18	9.78	44.96	56.00	-11.04	QP
0.7140	20.62	9.78	30.40	46.00	-15.60	AVG
1.0140	34.24	9.73	43.97	56.00	-12.03	QP
1.0140	17.95	9.73	27.68	46.00	-18.32	AVG
1.9340	30.98	9.65	40.63	56.00	-15.37	QP
1.9340	19.80	9.65	29.45	46.00	-16.55	AVG
4.1339	30.85	9.70	40.55	56.00	-15.45	QP
4.1339	20.92	9.70	30.62	46.00	-15.38	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

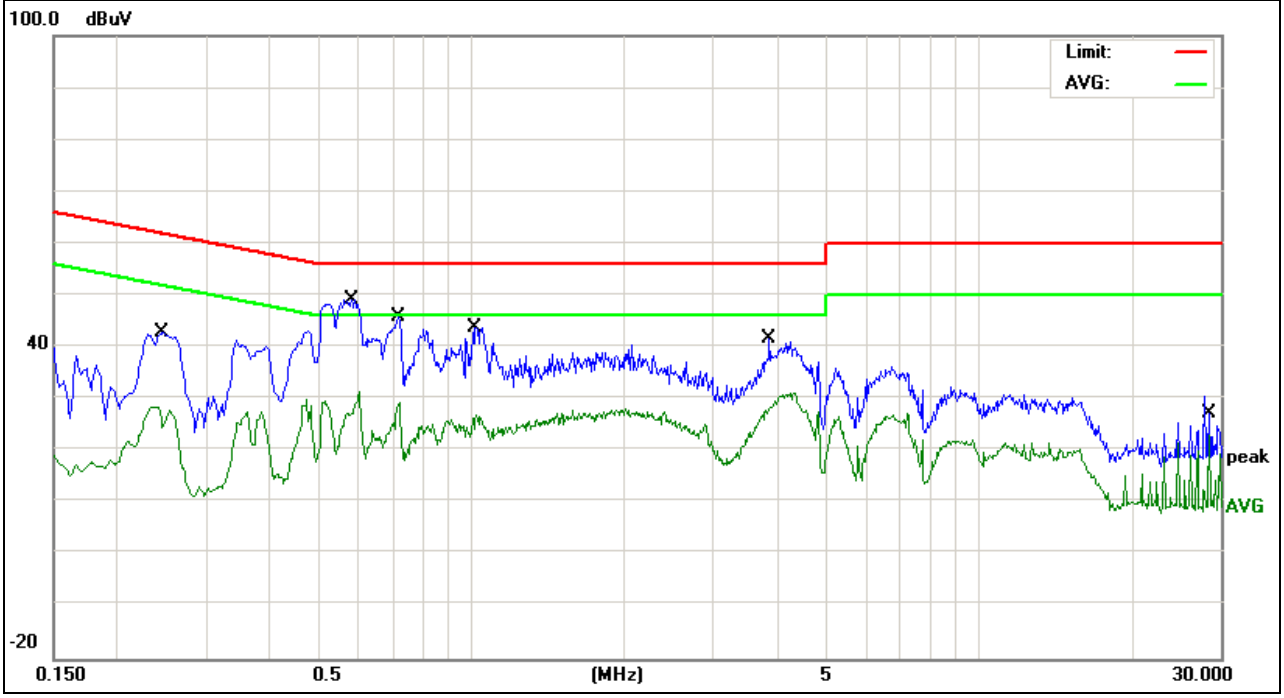


EUT：	USB Dongle	Model Name. ：	T2
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010hPa	Phase：	N
Test Voltage ：	DC 5.0V form PC AC 240V/60Hz	Test Mode：	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.2460	33.28	9.61	42.89	61.89	-19.00	QP
0.2460	18.88	9.61	28.49	51.89	-23.40	AVG
0.5820	39.52	9.66	49.18	56.00	-6.82	QP
0.5820	21.69	9.66	31.35	46.00	-14.65	AVG
0.7180	36.35	9.64	45.99	56.00	-10.01	QP
0.7180	19.58	9.64	29.22	46.00	-16.78	AVG
1.0180	34.18	9.61	43.79	56.00	-12.21	QP
1.0180	17.27	9.61	26.88	46.00	-19.12	AVG
3.8660	32.15	9.51	41.66	56.00	-14.34	QP
3.8660	21.74	9.51	31.25	46.00	-14.75	AVG
28.4940	20.48	10.00	30.48	60.00	-29.52	QP
28.4940	12.96	10.00	22.96	50.00	-27.04	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



3.4 RADIATED EMISSION MEASUREMENT

3.4.1 Radiated Emission Limits (FCC 15.209)

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
Frequency (MHz)	Limit (dBuV)	
30~88	40	3
88~216	43.5	3
216~960	46	3
960 -10000	54.00	3
*2400-2483.5	94.00	3

Note:

(1) The tighter limit applies at the band edges.

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

(3) *Note: This is the limit for the fundamental frequency.

LIMITS OF RADIATED EMISSION MEASUREMENT (FCC 15.249)

Frequency of Emission (MHz)	Field Strength of fundamental ((millivolts /meter)	Field Strength of Harmonics (microvolts/meter)
2400-2483.5	50	500

Notes:

(1) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.4.2 TEST PROCEDURE

a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

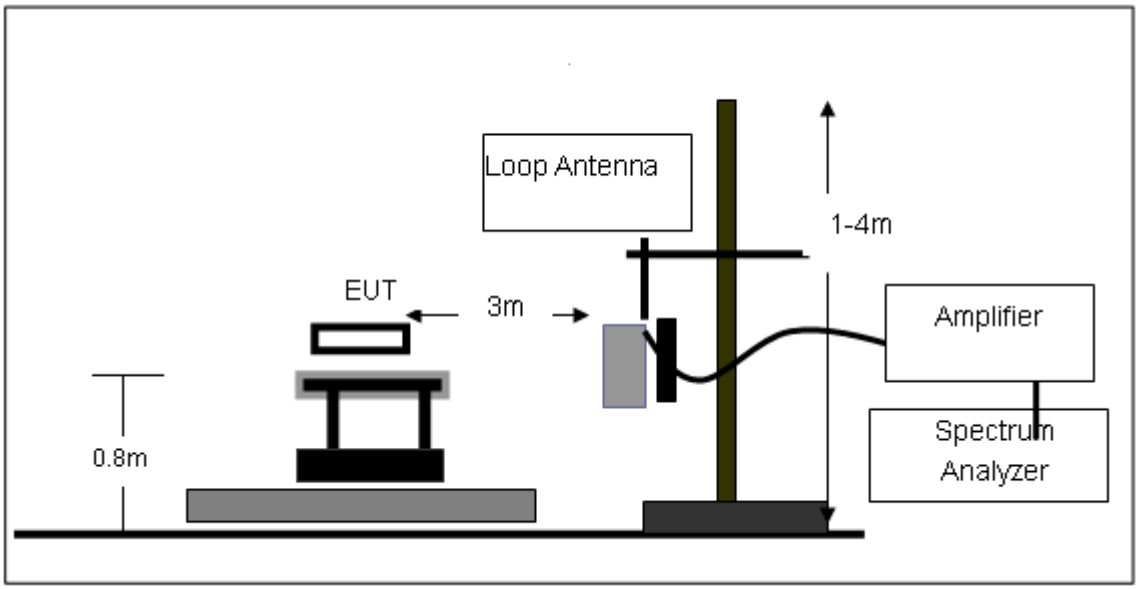
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

3.4.3 DEVIATION FROM TEST STANDARD

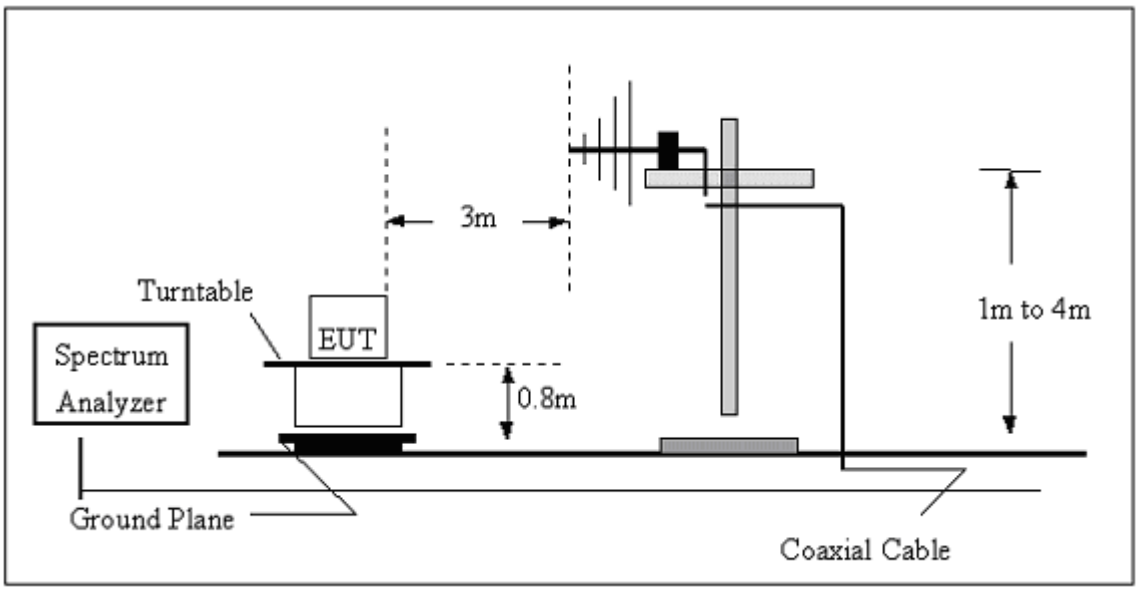
No deviation

3.4.4 TEST SETUP

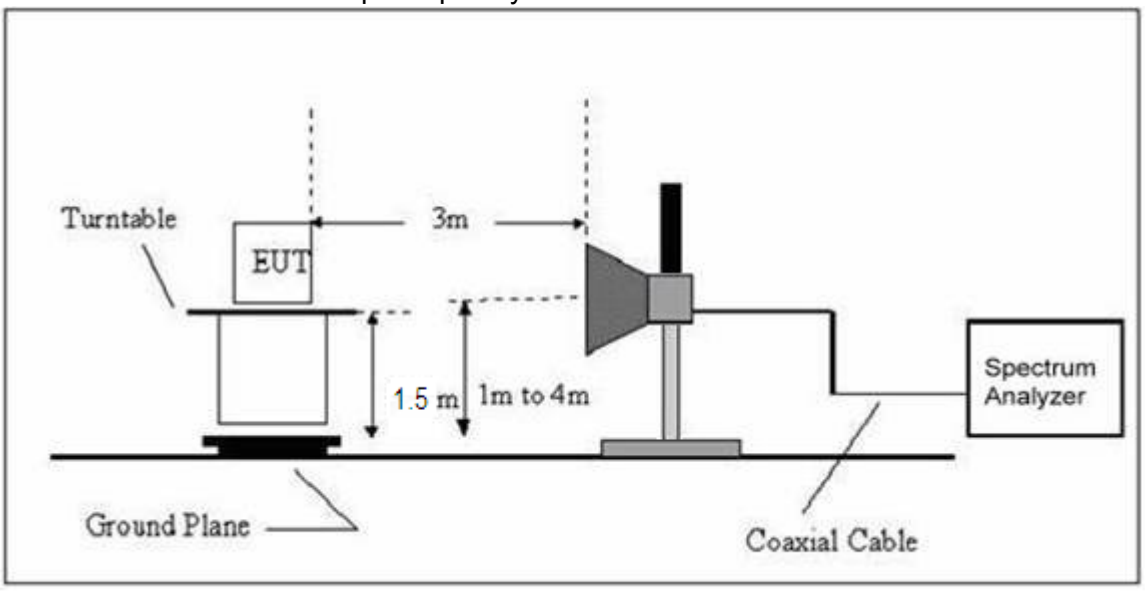
（A）Radiated Emission Test-Up Frequency Below 30MHz



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



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



3.4.5 TEST RESULTS (BLOW 30MHz)

EUT：	USB Dongle	Model Name. ：	T2
Temperature：	20 ℃	Relative Humidtity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5.0V
Test Mode ：	TX	Polarization :	--

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

NOTE:

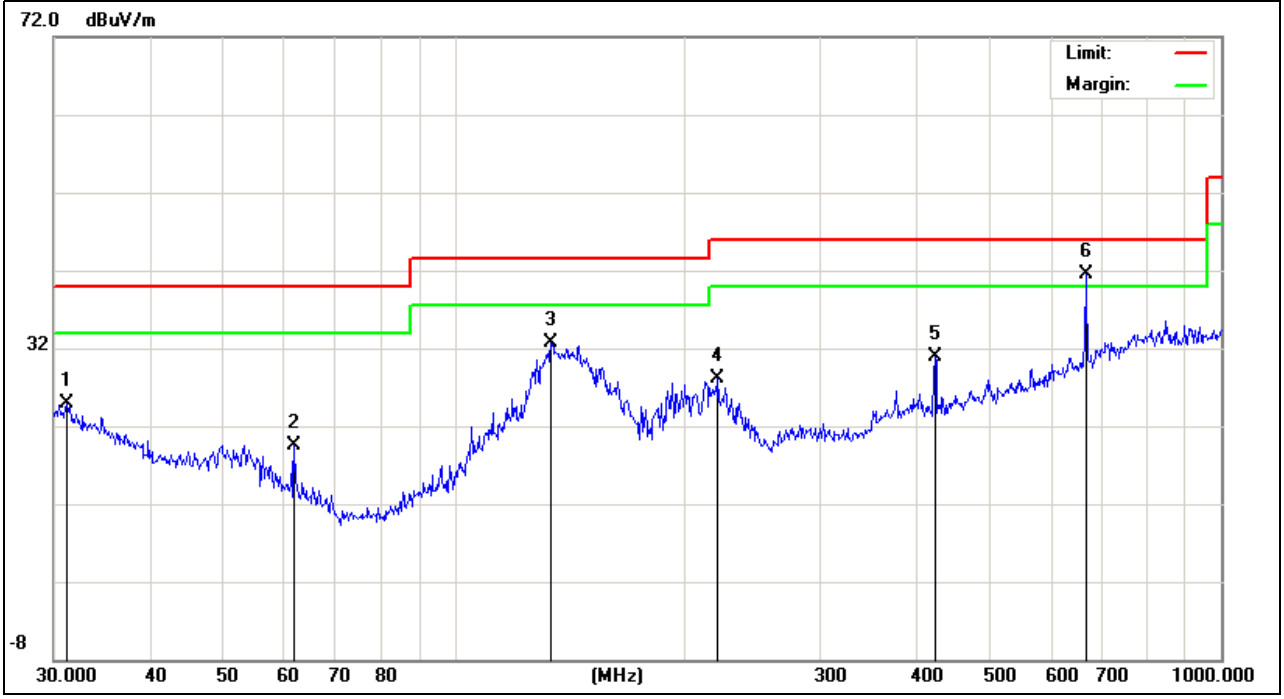
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
Distance extrapolation factor =20 log (specific distance/test distance)(dB);
Limit line = specific limits(dBuv) + distance extrapolation factor.

3.4.6 TEST RESULTS (BETWEEN 30 – 1000 MHZ)

EUT：	USB Dongle	Model Name ：	T2
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5.0V
Test Mode ：	TX	Polarization：	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
31.1798	6.09	18.78	24.87	40.00	-15.13	QP
61.7781	12.15	7.43	19.58	40.00	-20.42	QP
133.6188	20.93	11.71	32.64	43.50	-10.86	QP
220.6171	15.86	12.17	28.03	46.00	-17.97	QP
423.5403	12.12	18.78	30.90	46.00	-15.10	QP
665.8035	17.58	23.85	41.43	46.00	-4.57	QP

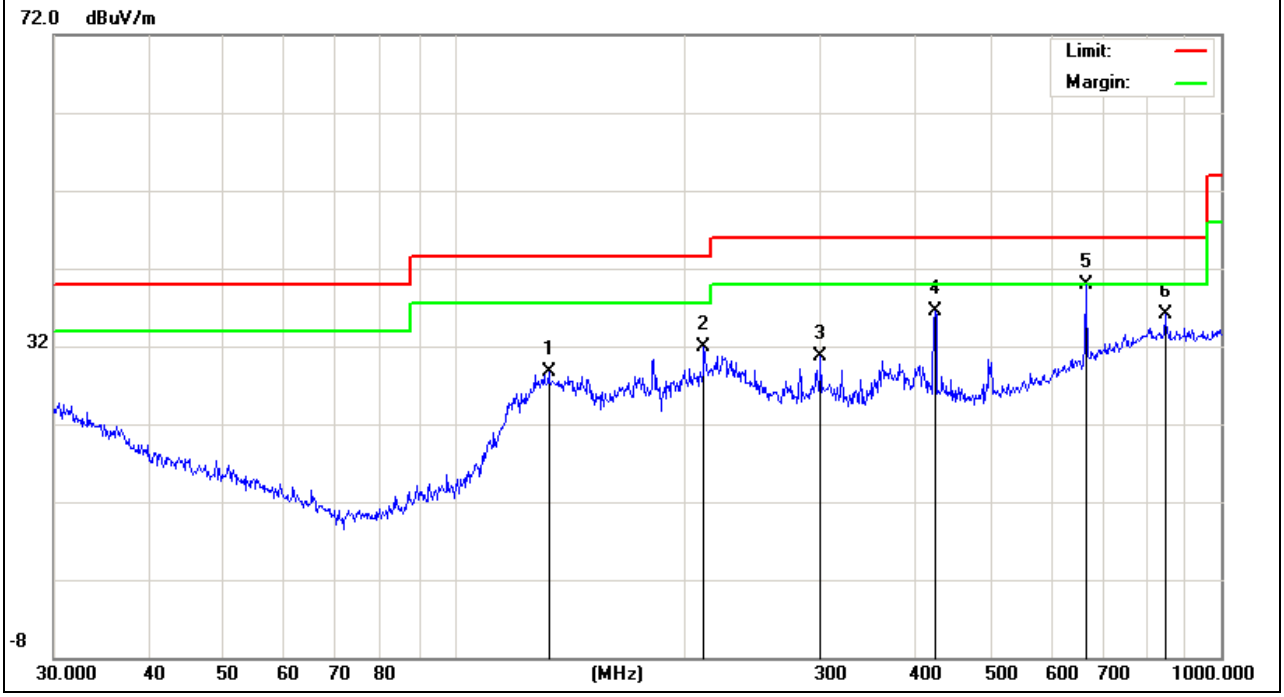
Remark:
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT：	USB Dongle	Model Name ：	T2
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5.0V
Test Mode ：	TX	Polarization：	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
132.6850	16.87	11.76	28.63	43.50	-14.87	QP
211.5265	20.43	11.56	31.99	43.50	-11.51	QP
300.3672	16.64	14.16	30.80	46.00	-15.20	QP
423.5403	17.63	18.78	36.41	46.00	-9.59	QP
665.8035	16.09	23.85	39.94	46.00	-6.06	QP
845.0878	8.81	27.25	36.06	46.00	-9.94	QP

Remark:
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

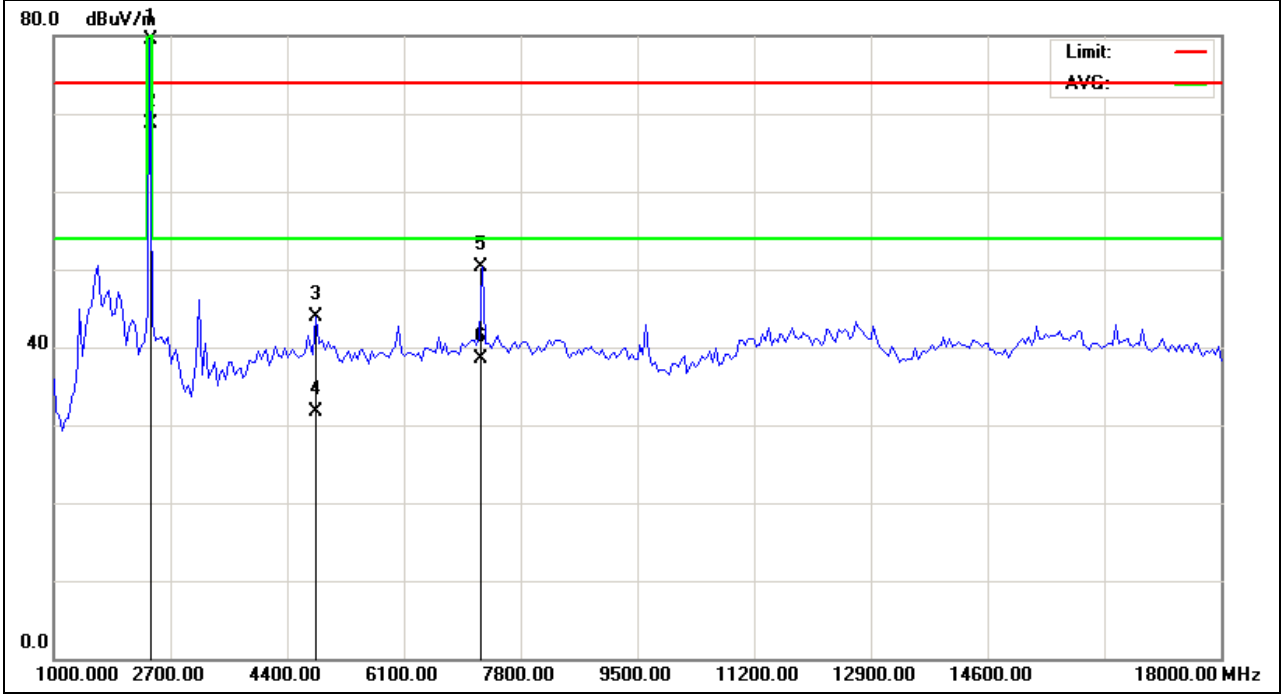


3.4.7 TEST RESULTS (ABOVE 1000 MHZ)

EUT：	USB Dongle	Model Name ：	T2
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5.0V
Test Mode ：	TX-2410MHz	Polarization：	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2410.000	88.78	-9.20	79.58	114.00	-34.42	peak
2410.000	77.90	-9.20	68.70	94.00	-25.30	AVG
4820.000	43.81	0.18	43.99	74.00	-30.01	peak
4820.000	31.62	0.18	31.80	54.00	-22.20	AVG
7230.000	47.99	2.25	50.24	74.00	-23.76	peak
7230.000	36.35	2.25	38.60	54.00	-15.40	AVG

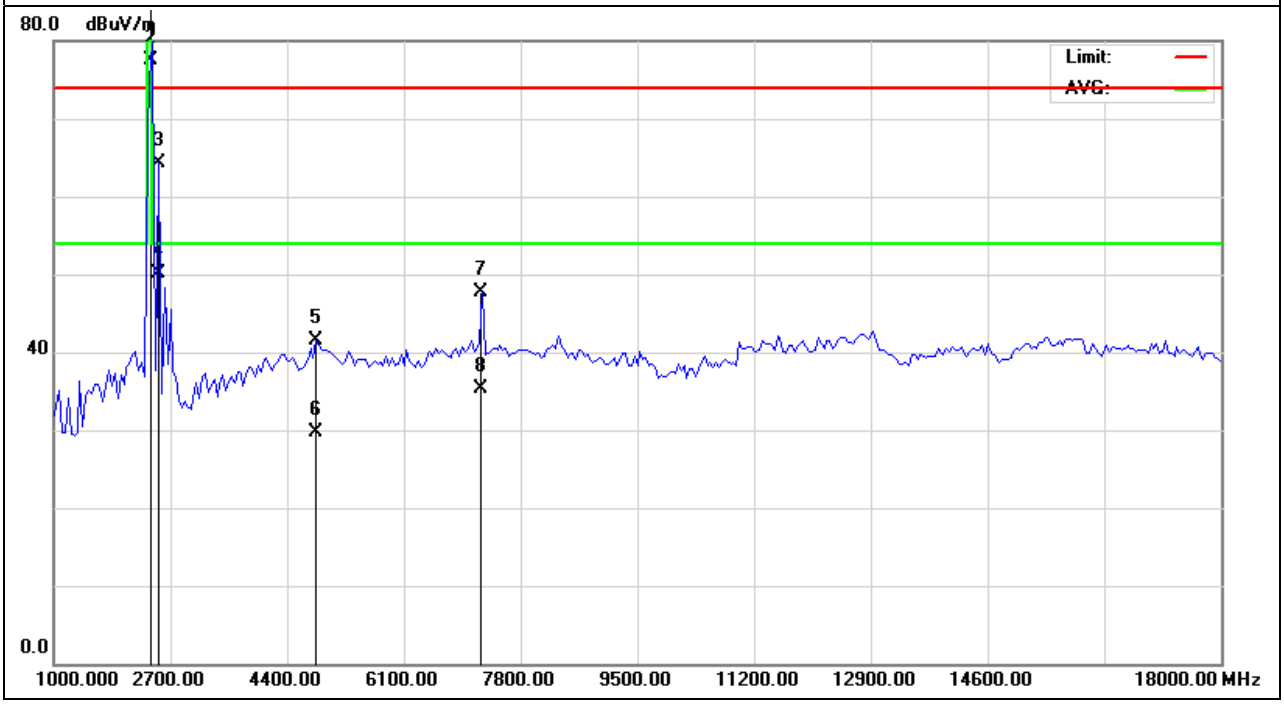
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
No emission above 18GHz.



EUT：	USB Dongle	Model Name ：	T2
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5.0V
Test Mode ：	TX-2410MHz	Polarization：	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2410.00	100.94	-9.20	91.74	114.0 0	-22.26	peak
2410.00	86.70	-9.20	77.50	94.00	-16.50	AVG
2530.00	73.35	-9.00	64.35	74.00	-9.65	peak
2530.00	59.10	-9.00	50.10	54.00	-3.90	AVG
4820.00	41.34	0.18	41.52	74.00	-32.48	peak
4820.00	29.62	0.18	29.80	54.00	-24.20	AVG
7230.00	45.42	2.25	47.67	74.00	-26.33	peak
7230.00	33.15	2.25	35.40	54.00	-18.60	AVG

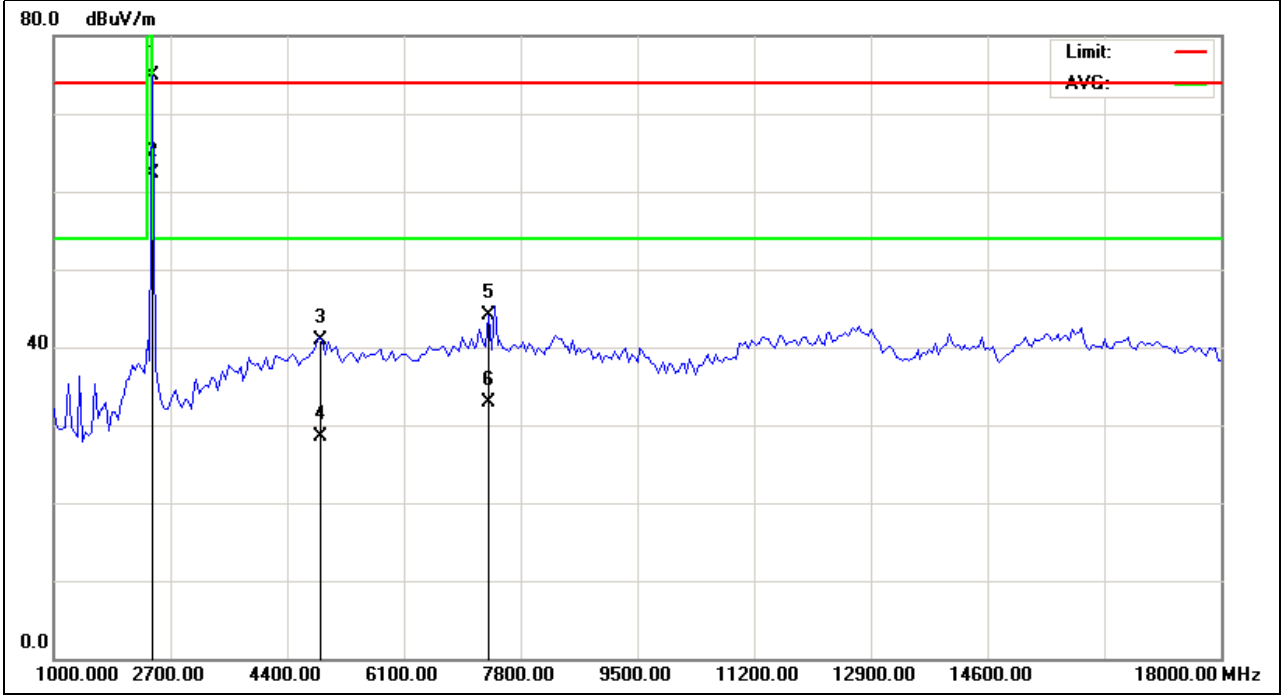
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
No emission above 18GHz.



EUT：	USB Dongle	Model Name ：	T2
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5.0V
Test Mode ：	TX-2442MHz	Polarization：	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2442.000	84.13	-9.14	74.99	114.00	-39.01	peak
2442.000	71.44	-9.14	62.30	94.00	-31.70	AVG
4884.000	40.80	0.06	40.86	74.00	-33.14	peak
4884.000	28.54	0.06	28.60	54.00	-25.40	AVG
7326.000	41.52	2.61	44.13	74.00	-29.87	peak
7326.000	30.39	2.61	33.00	54.00	-21.00	AVG

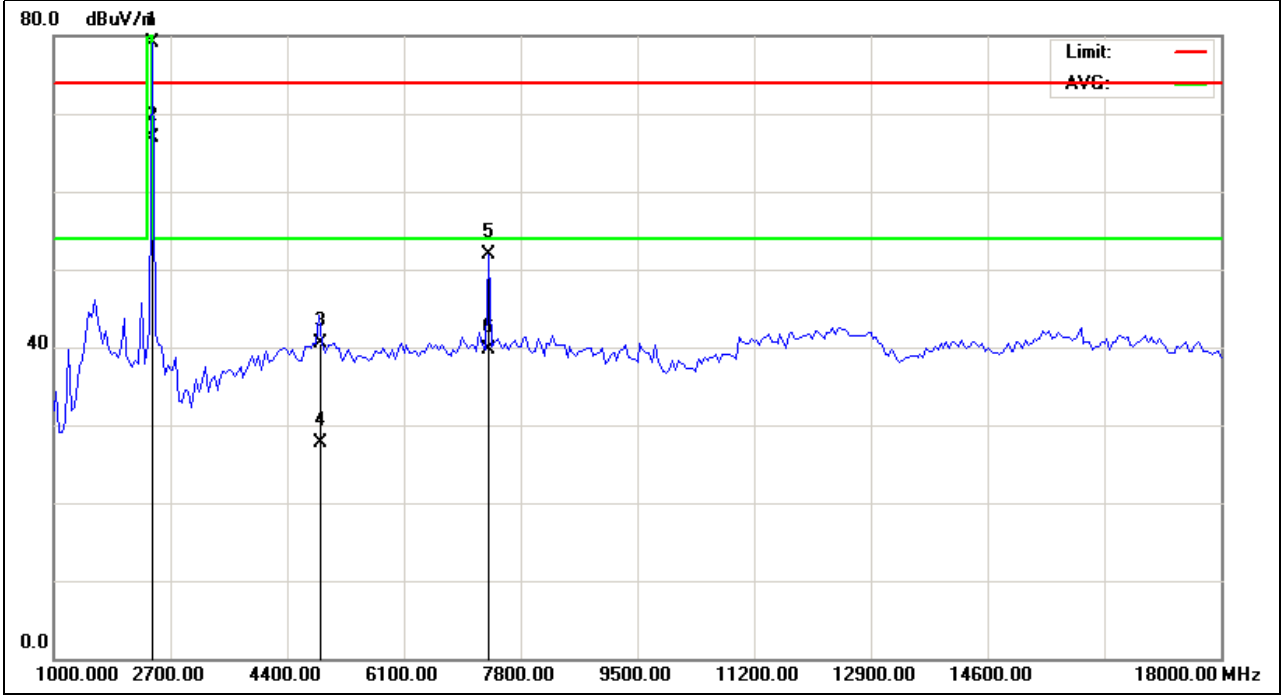
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
No emission above 18GHz.



EUT：	USB Dongle	Model Name ：	T2
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5.0V
Test Mode ：	TX-2442MHz	Polarization：	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2442.000	88.28	-9.14	79.14	114.00	-34.86	peak
2442.000	76.04	-9.14	66.90	94.00	-27.10	AVG
4884.000	40.38	0.06	40.44	74.00	-33.56	peak
4884.000	27.74	0.06	27.80	54.00	-26.20	AVG
7326.000	49.25	2.61	51.86	74.00	-22.14	peak
7326.000	37.09	2.61	39.70	54.00	-14.30	AVG

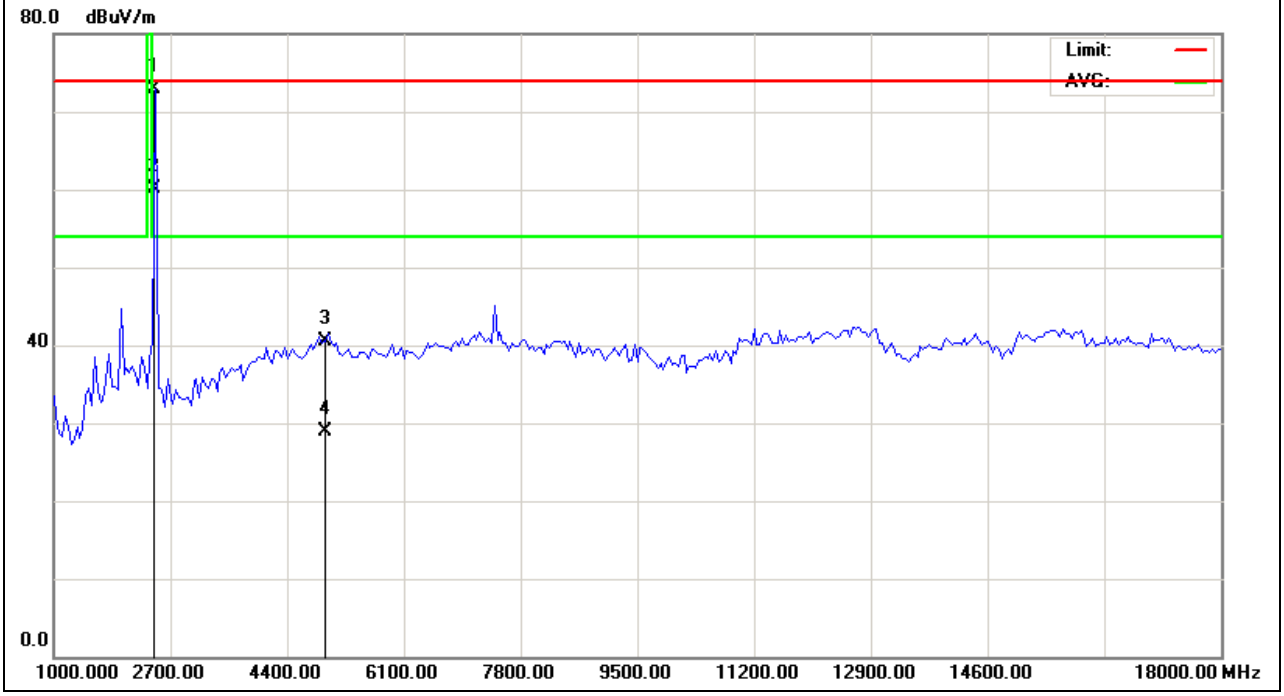
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
No emission above 18GHz.



EUT：	USB Dongle	Model Name ：	T2
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5.0V
Test Mode ：	TX-2473MHz	Polarization：	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2473.000	81.95	-9.04	72.91	114.0 0	-41.09	peak
2473.000	69.24	-9.04	60.20	94.00	-33.80	AVG
4946.000	40.34	0.17	40.51	74.00	-33.49	peak
4946.000	28.73	0.17	28.90	54.00	-25.10	AVG

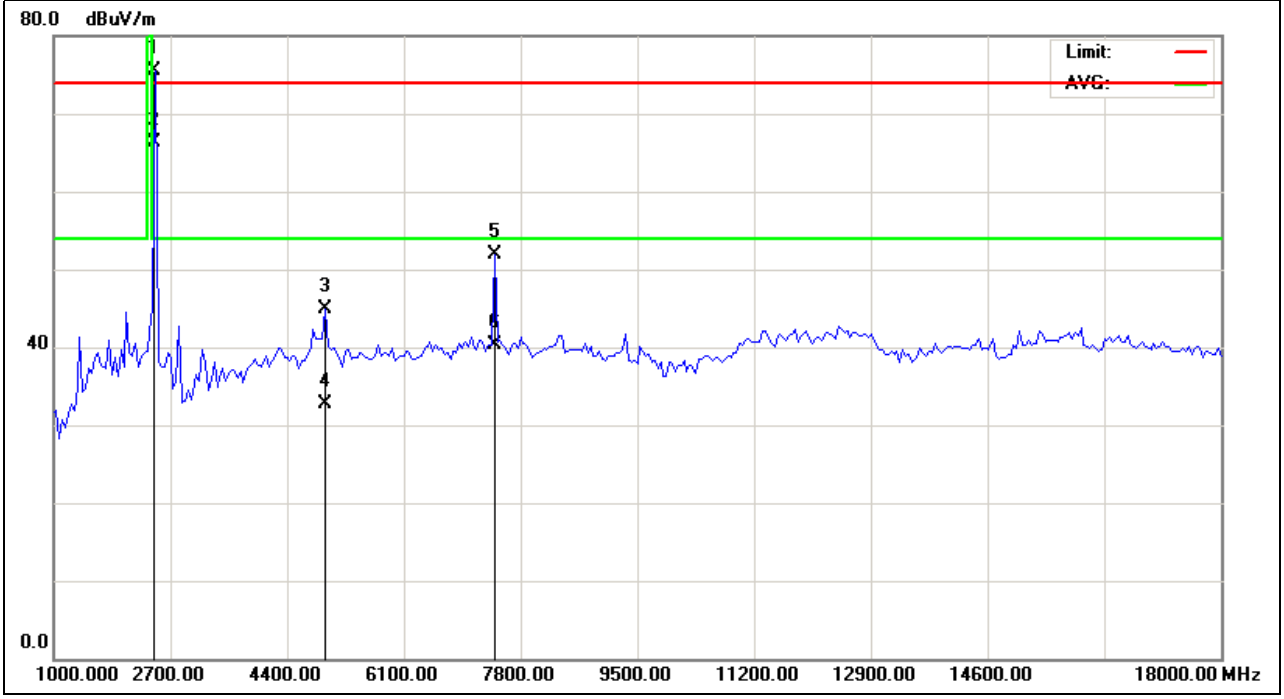
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
No emission above 18GHz.



EUT：	USB Dongle	Model Name ：	T2
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5.0V
Test Mode ：	TX-2473MHz	Polarization：	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2473.000	84.60	-9.04	75.56	114.00	-38.44	peak
2473.000	75.34	-9.04	66.30	94.00	-27.70	AVG
4946.000	44.81	0.17	44.98	74.00	-29.02	peak
4946.000	32.53	0.17	32.70	54.00	-21.30	AVG
7419.000	49.16	2.70	51.86	74.00	-22.14	peak
7419.000	37.70	2.70	40.40	54.00	-13.60	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
No emission above 18GHz.



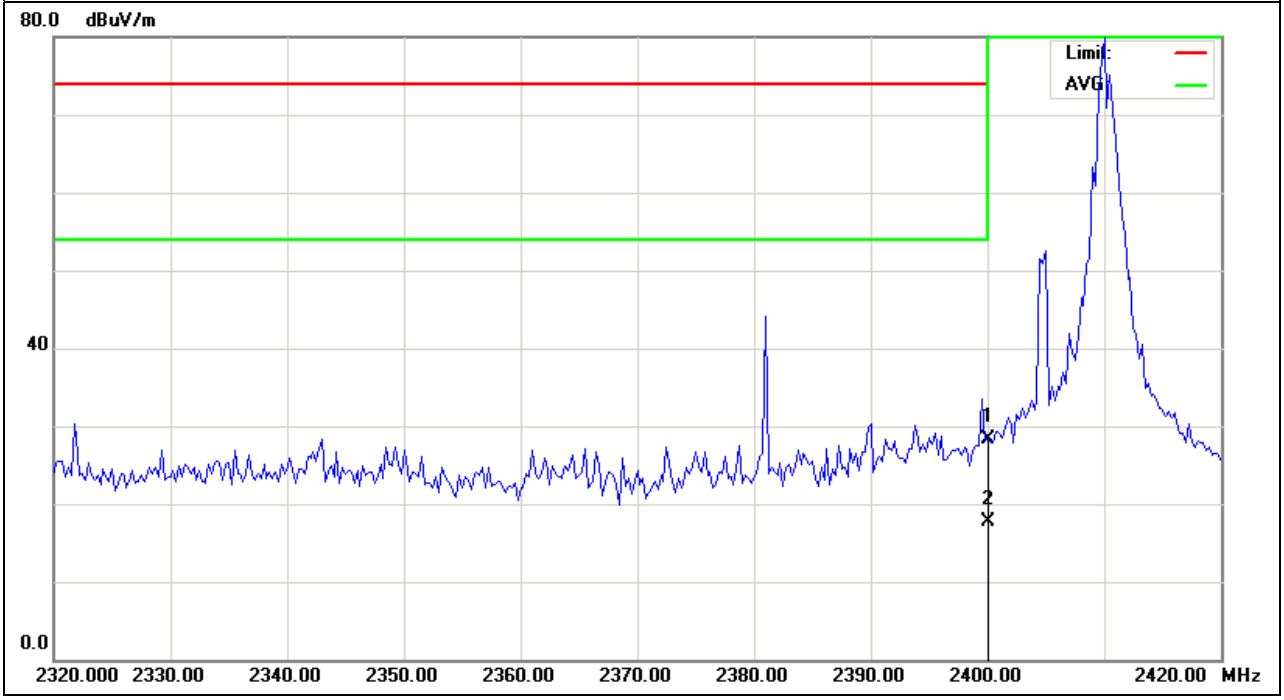
Note: EUT Pre-scan X/Y/Z orientation, only worst case is presented in the report(X orientation).

3.4.8 TEST RESULTS (RESTRICTED BANDS REQUIREMENTS)

EUT：	USB Dongle	Model Name ：	T2
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5.0V
Test Mode ：	TX-2410MHz	Polarization：	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2400.00	37.47	-9.22	28.25	74.00	-45.75	peak
2400.00	27.02	-9.22	17.80	54.00	-36.20	AVG

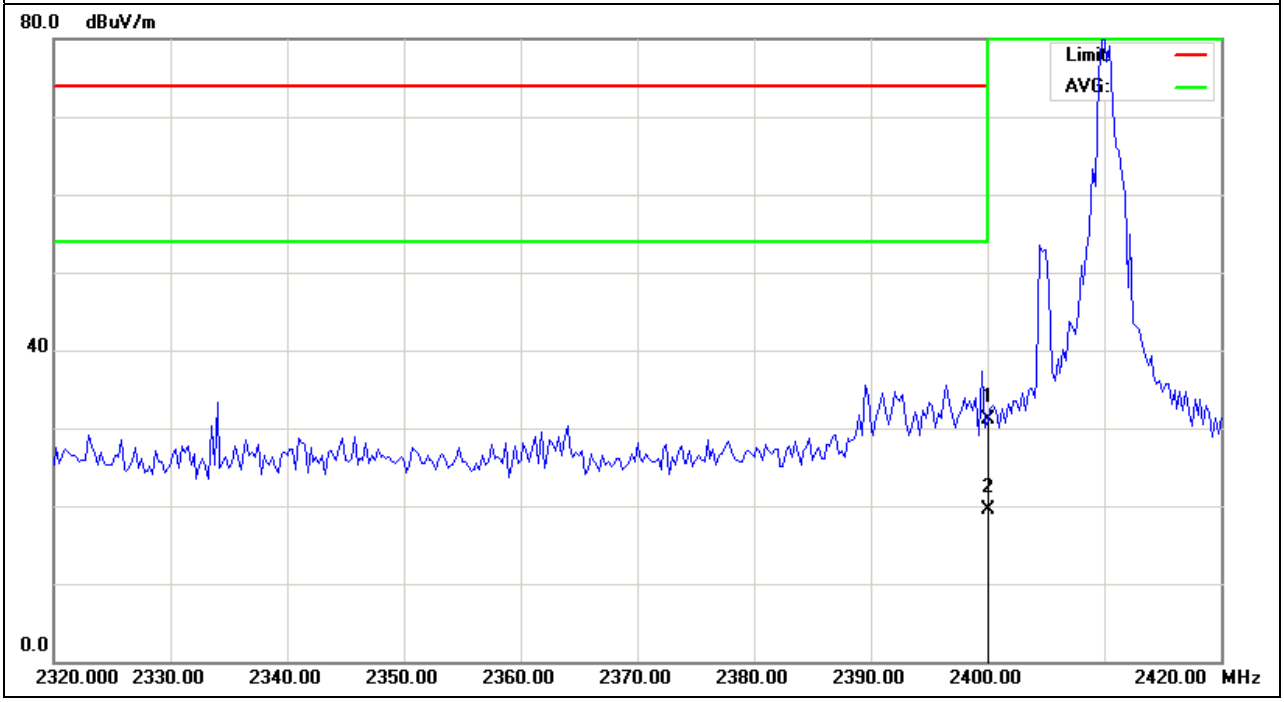
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT：	USB Dongle	Model Name ：	T2
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5.0V
Test Mode ：	TX-2410MHz	Polarization：	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2400.00	40.25	-9.22	31.03	74.00	-42.97	peak
2400.00	28.82	-9.22	19.60	54.00	-34.40	AVG

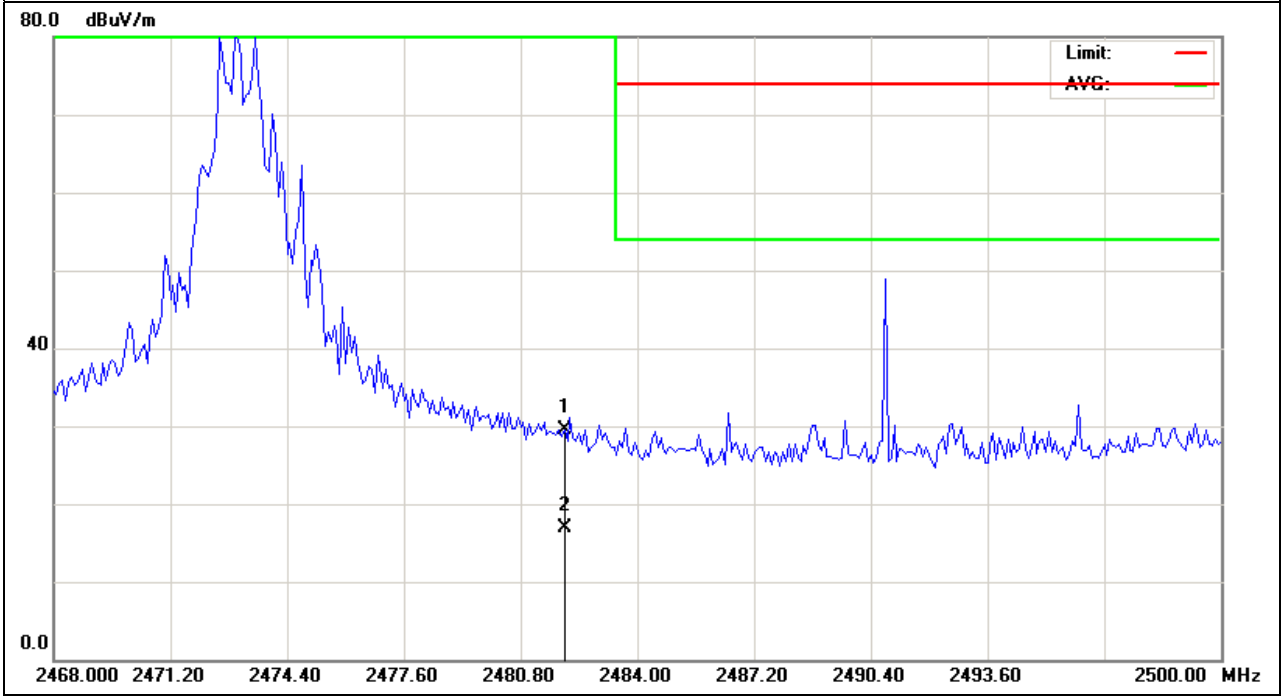
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT：	USB Dongle	Model Name ：	T2
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5.0V
Test Mode ：	TX-2473MHz	Polarization：	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2482.00	38.48	-9.00	29.48	114.00	-84.52	peak
2482.00	25.90	-9.00	16.90	94.00	-77.10	AVG

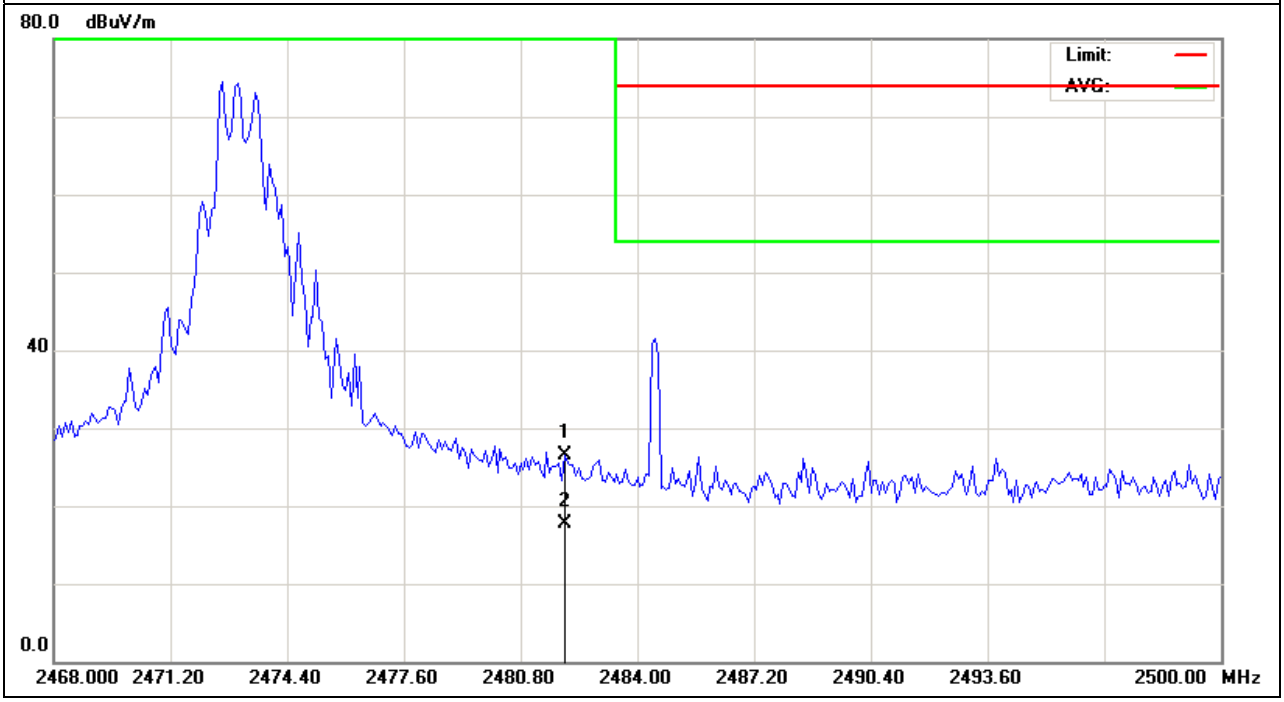
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT：	USB Dongle	Model Name ：	T2
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5.0V
Test Mode ：	TX-2473MHz	Polarization：	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2482.00	35.44	-9.00	26.44	114.00	-87.56	peak
2482.00	26.80	-9.00	17.80	94.00	-76.20	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



4. BANDWIDTH TEST

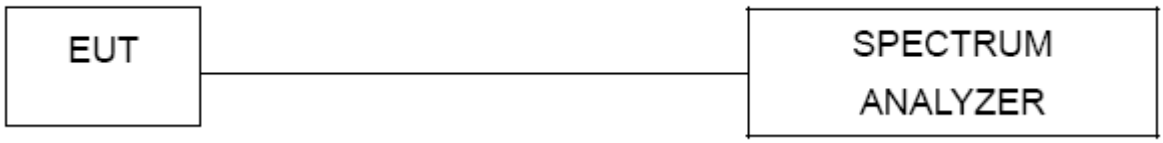
4.1 TEST PROCEDURE

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

4.2 DEVIATION FROM STANDARD

No deviation.

4.3 TEST SETUP

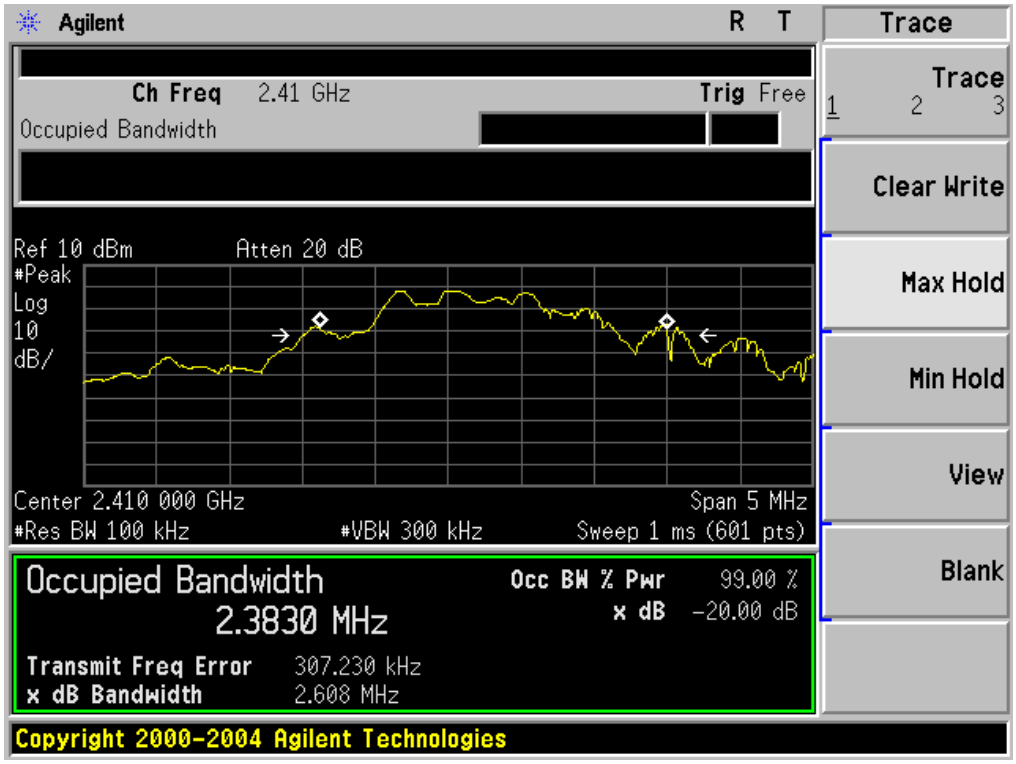


4.4 TEST RESULTS

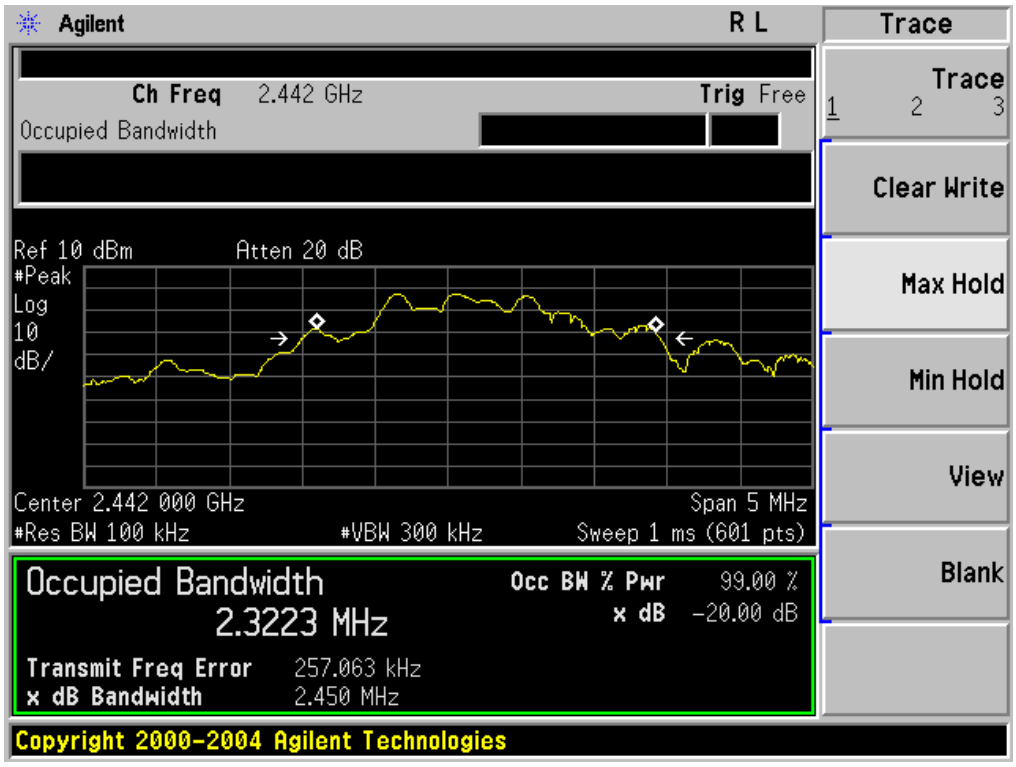
EUT：	USB Dongle	Model Name ：	T2
Temperature：	26 ℃	Relative Humidity：	53%
Pressure：	1020 hPa	Test Power ：	DC 5.0V
Test Mode ：	TX		

Test Channel	Frequency (MHz)	20 dBc Bandwidth (MHz)
CH04	2410	2.608
CH07	2442	2.450
CH11	2473	2.836

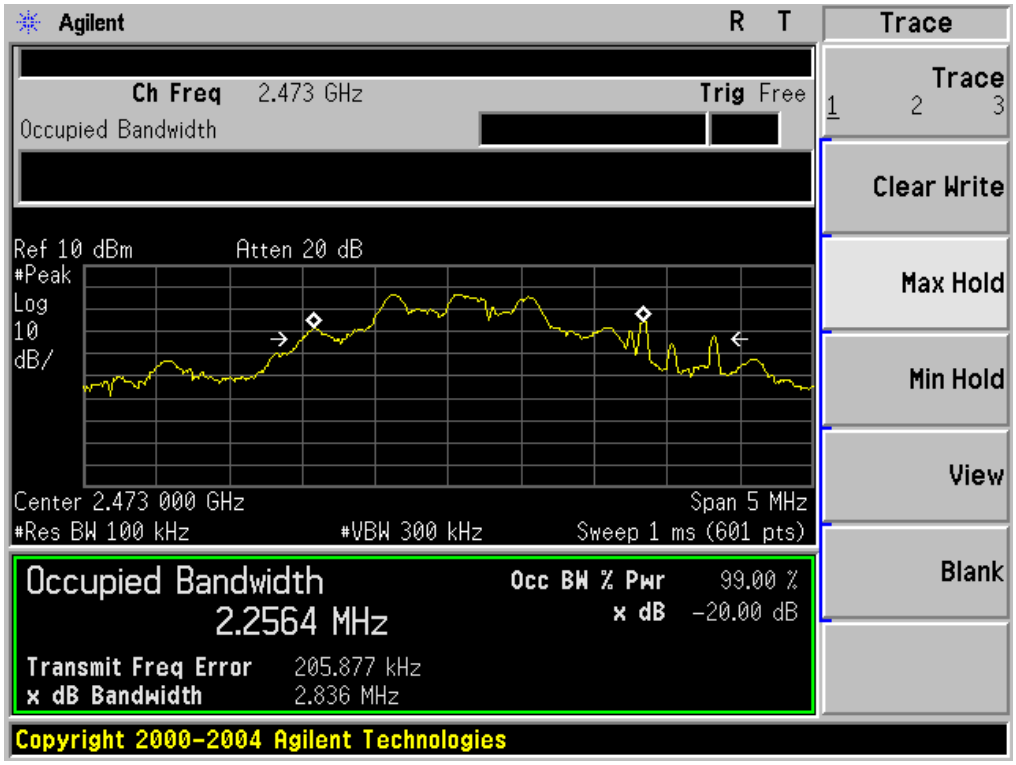
2410 MHz



2442 MHz

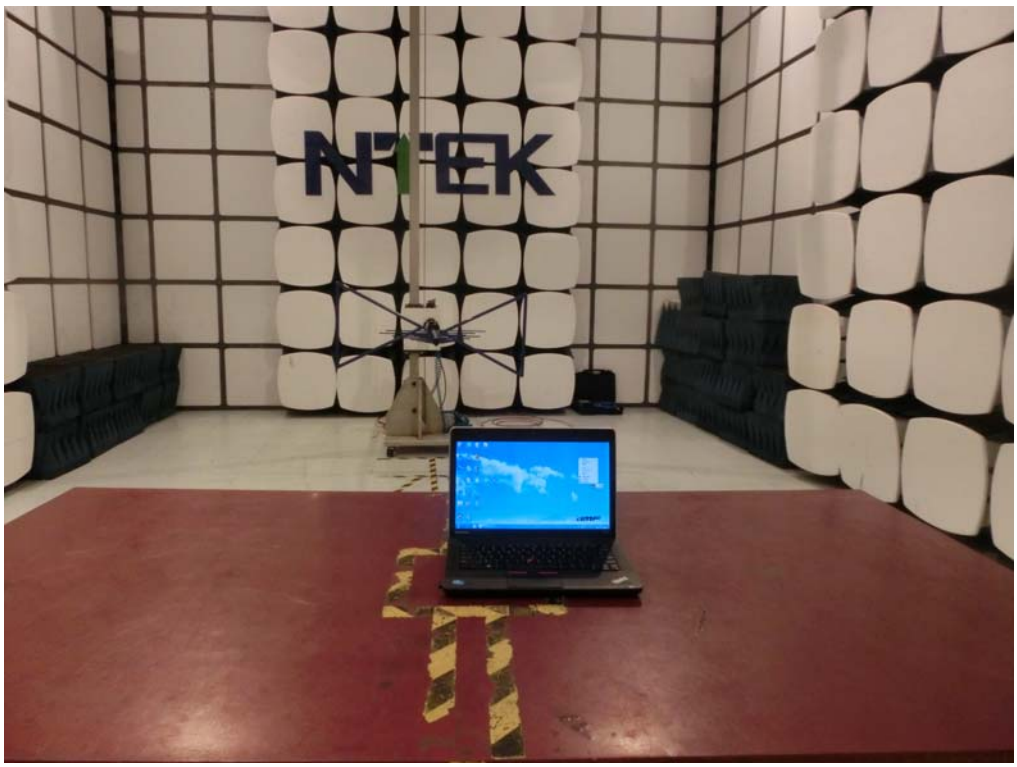


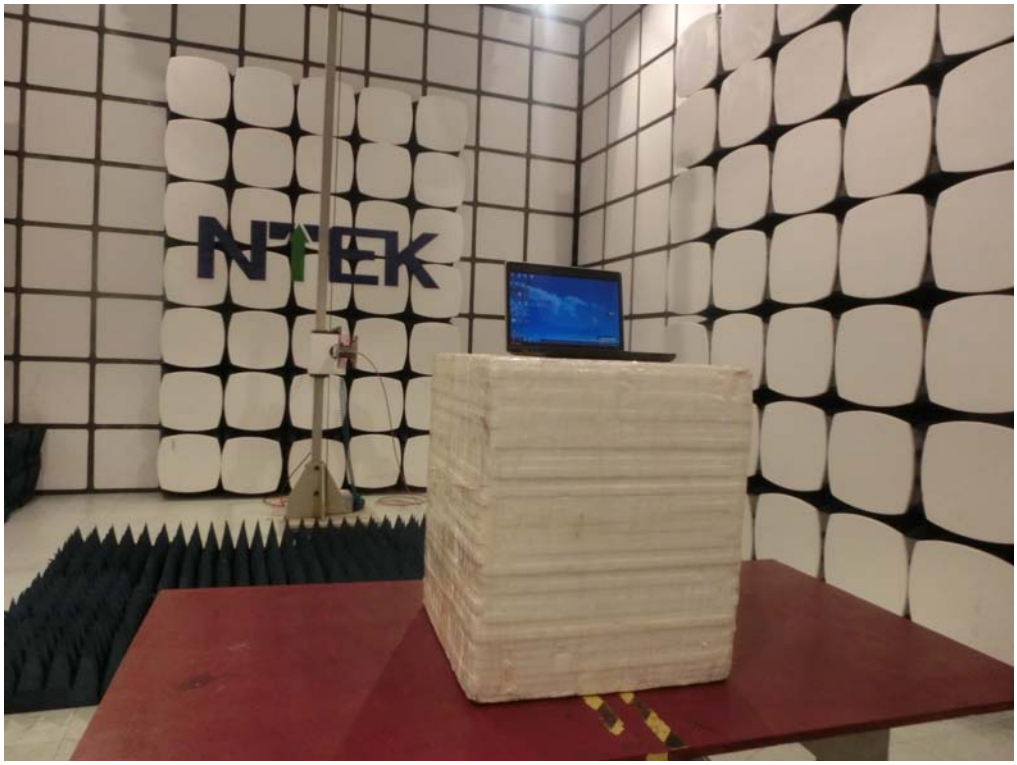
2473 MHz



5. EUT TEST PHOTO

Radiated Measurement Photos





Conducted Measurement Photos