



FCC TEST REPORT

FCC ID: A5M-HS2420MODELS

Report Number..... : ZKT-211025L5701

Date of Test..... Sep. 26, 2021 to Sep. 30, 2021

Date of issue..... : Sep. 30, 2021

Total number of pages 83

Test Result : PASS

Testing Laboratory..... : Shenzhen ZKT Technology Co., Ltd.

Address 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name : Lenovo(Beijing)Ltd.

Address 201-H2-6, Floor2, Building2, No.6 Shangdi West Road, Haidian District, Beijing, China 100085

Manufacturer's name : Lenovo(Beijing)Ltd.

Address 201-H2-6, Floor2, Building2, No.6 Shangdi West Road, Haidian District, Beijing, China 100085

Test specification:

Standard..... FCC CFR Title 47 Part 15 Subpart C Section 15.247
ANSI C63.10:2013

Test procedure..... : /

Non-standard test method : N/A

Test Report Form No. : TRF-EL-110_V0

Test Report Form(s) Originator : ZKT Testing

Master TRF : Dated: 2020-01-06

This device described above has been tested by ZKT, 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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Product name..... : Self-service Terminal

Trademark : Lenovo

Model/Type reference : MT-2420 MODEL S

Ratings..... : Input: AC110-240V



Testing procedure and testing location:

Testing Laboratory.....: Shenzhen ZKT Technology Co., Ltd.

**Address.....: 1/F, No. 101, Building B, No. 6, Tangwei Community
Industrial Avenue, Fuhai Street, Bao'an District,
Shenzhen, China**

Tested by (name + signature).....: Alen He

Reviewer (name + signature).....: Joe Liu

Approved (name + signature).....: Lake Xie





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1. VERSION

Report No.	Version	Description	Approved
ZKT-211025L5701	Rev.01	Initial issue of report	Sep. 30, 2021



2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Result	Remark
FCC part 15.203/15.247 (c)	Antenna requirement	PASS	
FCC part 15.207	AC Power Line Conducted Emission	PASS	
FCC part 15.247 (b)(3)	Conducted Peak Output Power	PASS	
FCC part 15.247 (a)(2)	Channel Bandwidth& 99% OCB	PASS	
FCC part 15.247 (e)	Power Spectral Density	PASS	
FCC part 15.247(d)	Band Edge	PASS	
FCC part 15.205/15.209	Spurious Emission	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

(2)This product does not support MIMO



2.1 TEST FACILITY

Shenzhen ZKT Technology Co., Ltd.

Add. : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

FCC Test Firm Registration Number: 692225

Designation Number: CN1299

IC Registered No.: 27033

2.2 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	Conducted Emission Test	$\pm 3.6\text{dB}$
2	RF power conducted	$\pm 0.16\text{dB}$
3	Spurious emissions conducted	$\pm 0.21\text{dB}$
4	All emissions radiated(<1G)	$\pm 5.0\text{dB}$
5	All emissions radiated(>1G)	$\pm 5.0\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	Self-service Terminal
Model No.:	MT-2420 MODEL S
Model Different.:	/
Machine Type	12BC***** (Where * maybe 0-9, a-z, A-Z, any alphanumeric character, hyphen or blank.)
Serial No.:	N/A
Hardware Version:	/
Software Version:	/
Sample(s) Status:	Engineer sample
Channel numbers:	802.11b/802.11g /802.11n(HT20):11 802.11n(HT40):7
Channel separation:	5MHz
Modulation technology:	802.11b: Direct Sequence Spread Spectrum(DSSS) 802.11g/802.11n(H20)/802.11n(HT40): Orthogonal Frequency Division Multiplexing(OFDM)
Antenna Type:	Whip Antenna
Antenna gain:	3dBi
Directional gain :	6.01dBi
Power supply:	Input: AC110-240V



Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Test channel	Frequency (MHz)	
	802.11b/802.11g/802.11n(HT20)	802.11n(HT40)
Lowest channel	2412MHz	2422MHz
Middle channel	2437MHz	2437MHz
Highest channel	2462MHz	2452MHz

3.2 DESCRIPTION OF TEST MODES

Transmitting mode	Keep the EUT in continuously transmitting mode
Remark: During the test, the duty cycle >98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.	
The EUT supports 1TX/2RX function, Both Chain 1 and Chain 2 could be used as transmitting/receiving antenna, but only one of them could transmit/receive at the same time.	

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:				
Pre-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.				
Mode	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)
Data rate	1Mbps	6Mbps	6.5Mbps	13Mbps
Power setting of software:				
Test channel	Power setting (dBm)			
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)
Lowest channel	19	19	16	15
Middle channel	19	19	16	15
Highest channel	19	19	16	15

Test Software	Name : Realtek Test Tool
	Model: Realtek 11n 8188E PCIE WLAN MP

3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



Conducted Emission

DC Line

EUT

Radiated Emission

EUT

Conducted Spurious

EUT

3.4 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	Self-service Terminal	N/A	MT-2420 MODEL S	N/A	EUT

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.



3.5EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Test Receiver	R&S	R&S ESU26	1302.6005K26-1 00569-PD	2021.04.25	2022.04.25
2	Horn antenna	ETS-Lindgren	3117	00110312	2019.08.15	2022.08.15
3	Horn antenna	ETS-Lindgren	3117	00075942	2019.08.08	2022.08.08
4	Horn antenna	N/A	QSH-SL-18-26 -S-20	17639	2020.08.21	2023.08.21
5	Test Receiver	R&S	ESR 7	1316.3003K07-1 01589-Vz	2021.04.25	2022.04.25
6	receiving antenna	R&S	HL 562E	4100.0007.02-1 00811-Bc	2019.07.30	2022.07.30
7	Loop Antenna	R&S	HFH2-Z2	0335.4711.52-10 0435-Tu	2019.08.09	2022.08.09
8	Spectrum analyzer	R&S	FSW43	1312.80000K43- 104548-Ae	2021.08.13	2022.08.13
9	Horn Antenna	R&S	QSH-SL-26-40 -K-20	17640	2020.08.18	2023.08.18
10	Test Software	R&S	EMC32	\	\	\

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer	R&S	FSV40	101279	2021.03.30	2023.03.30
2	RF switch unit	R&S	OSP-B157 W8	101060	2020.07.03	2022.07.03
3	Vector Signal Generator	R&S	SMBV100A	262606	2021.03.30	2023.03.30
4	Signal Generator	R&S	SMB100A	180183	2021.03.30	2023.03.30
5	Wireless Connectivity tester	R&S	CMW270	101697	2020.07.03	2022.07.03
6	LISN	R&S	R&S ENV216	3560.6550.12 -101891-Ne	2021.08.02	2022.08.02
7	Receiver	R&S	ESR7	1316.3003K0 7-101445-uL	2021.04.25	2022.04.25

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2013



Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION Limits

FREQUENCY (MHz)	Limit (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	79	66	FCC
0.50 -30.0	73	60	FCC

Note:

(1) *Decreases with the logarithm of the frequency.

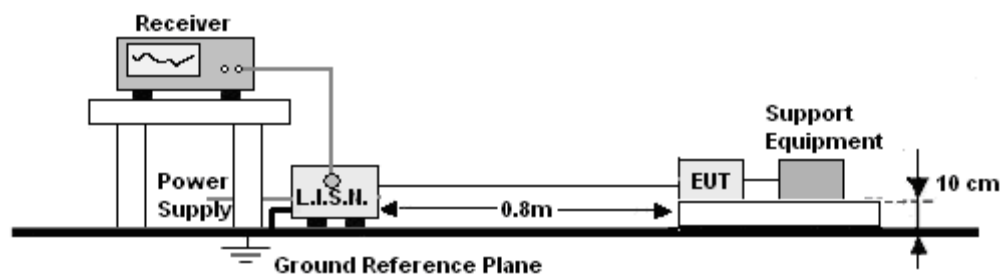
4.1.2 TEST PROCEDURE

- The EUT was placed 0.1 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.
- 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.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP





4.1.5 EUT OPERATING CONDITIONS

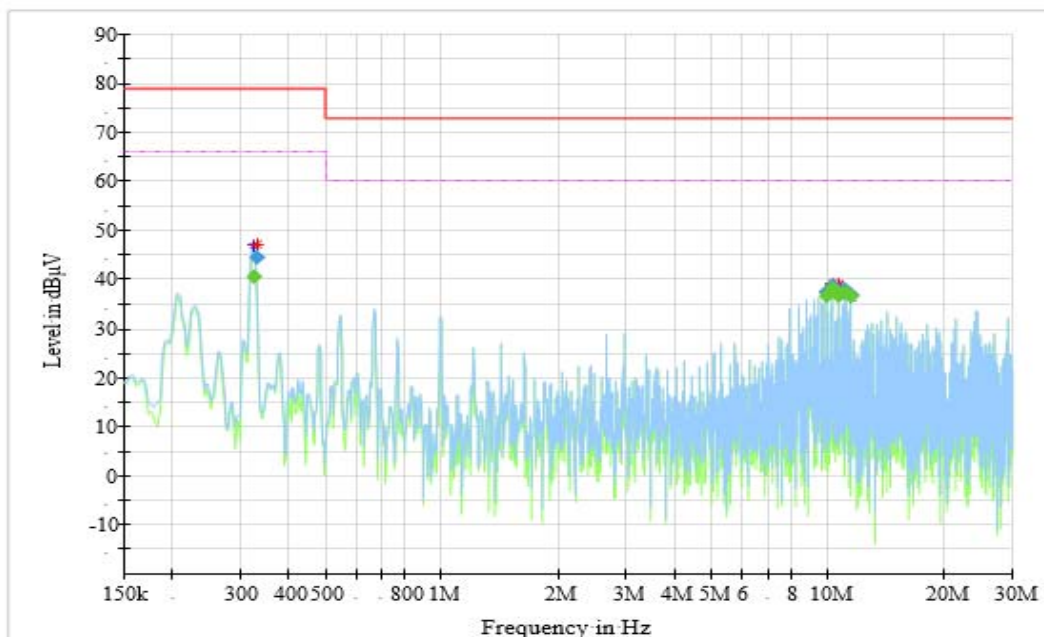
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

We pretest AC 120V and AC 230V, the worst voltage was AC 120V and the data recording in the report.



4.1.6 TEST RESULT

Temperature :	24℃	Relative Humidity:	50%
Pressure :	101kPa	Phase :	L
Test Voltage :	AC 120V/60Hz		



Final Result

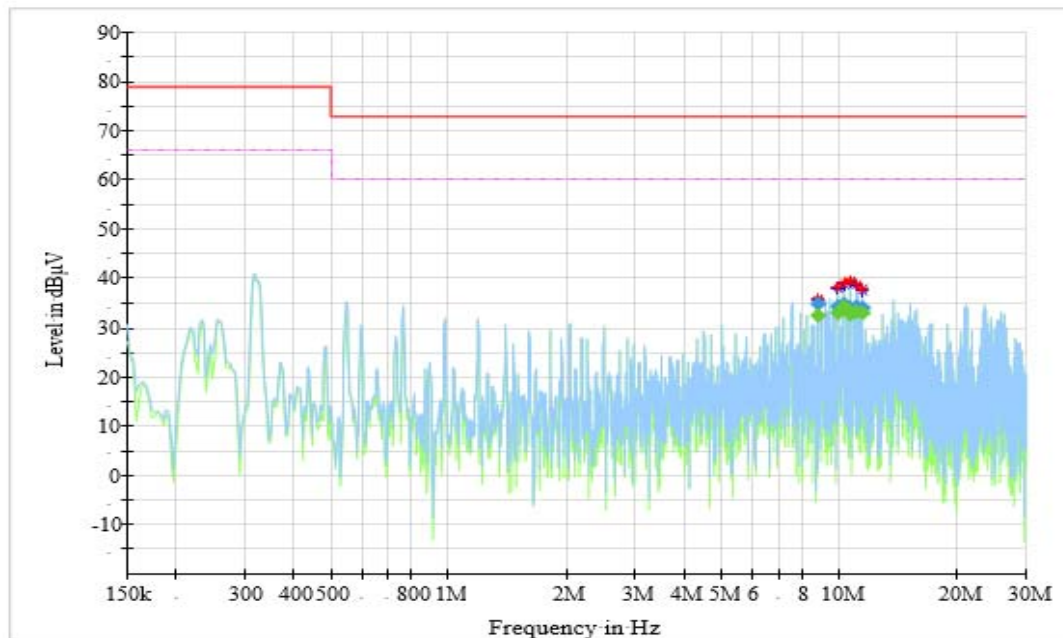
Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.326115	---	40.70	66.00	25.30	1000.0	9.000	L
0.330615	44.68	---	79.00	34.32	1000.0	9.000	L
9.854235	---	36.64	60.00	23.36	1000.0	9.000	L
9.854235	37.43	---	73.00	35.57	1000.0	9.000	L
10.260195	---	38.18	60.00	21.82	1000.0	9.000	L
10.260195	38.71	---	73.00	34.29	1000.0	9.000	L
10.663170	37.22	---	73.00	35.78	1000.0	9.000	L
10.663170	---	36.70	60.00	23.30	1000.0	9.000	L
11.069130	37.93	---	73.00	35.07	1000.0	9.000	L
11.069130	---	37.45	60.00	22.55	1000.0	9.000	L
11.475090	---	36.60	60.00	23.40	1000.0	9.000	L
11.475090	37.03	---	73.00	35.97	1000.0	9.000	L

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Measurement Level = Reading level + Correct Factor



Temperature :	24℃	Relative Humidity:	50%
Pressure :	101kPa	Phase :	N
Test Voltage :	AC 120V/60Hz		



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line
8.773665	---	32.49	60.00	27.51	1000.0	9.000	N
8.773665	34.85	---	73.00	38.15	1000.0	9.000	N
9.854235	---	32.93	60.00	27.07	1000.0	9.000	N
9.854235	34.36	---	73.00	38.64	1000.0	9.000	N
10.260195	---	34.32	60.00	25.68	1000.0	9.000	N
10.261710	34.88	---	73.00	38.12	1000.0	9.000	N
10.663170	34.15	---	73.00	38.85	1000.0	9.000	N
10.663170	---	32.66	60.00	27.34	1000.0	9.000	N
11.069130	34.33	---	73.00	38.67	1000.0	9.000	N
11.069130	---	33.26	60.00	26.74	1000.0	9.000	N
11.475090	---	33.08	60.00	26.92	1000.0	9.000	N
11.475090	34.17	---	73.00	38.83	1000.0	9.000	N

Notes:

- 1.An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3.Mesurement Level = Reading level + Correct Factor



4.2 RADIATED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	9kHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average

4.2.1 RADIATED EMISSION LIMITS

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	300	3
88~216	500	3
216~960	700	3
Above 960	1000	3

LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	79.5	59.5

Notes:

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

4.2.2 TEST PROCEDURE

Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.1 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of variable-height antenna tower.



- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dBmargin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

- g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter).
- h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel

Note:

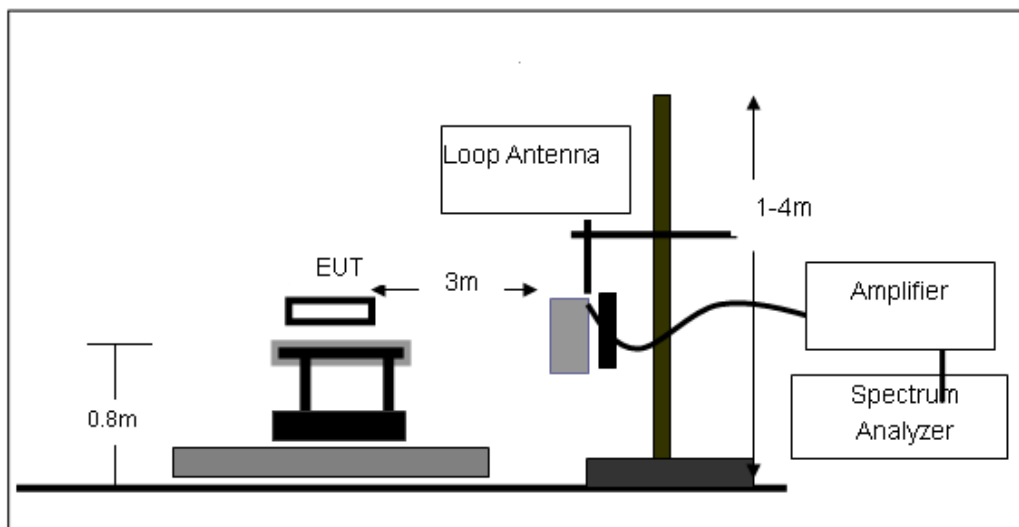
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

No deviation

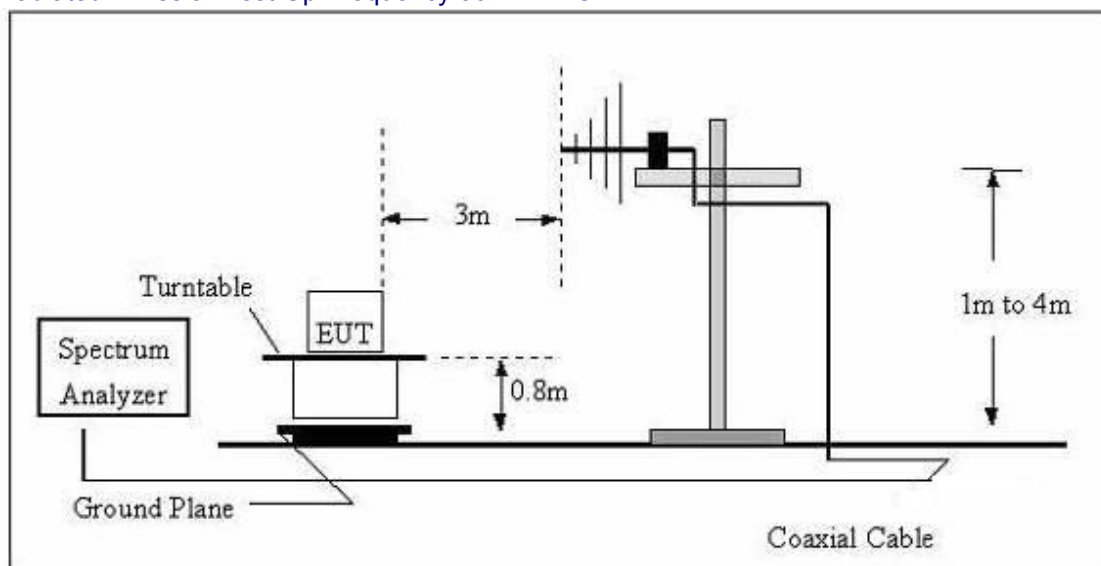
4.2.4 TEST SETUP

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

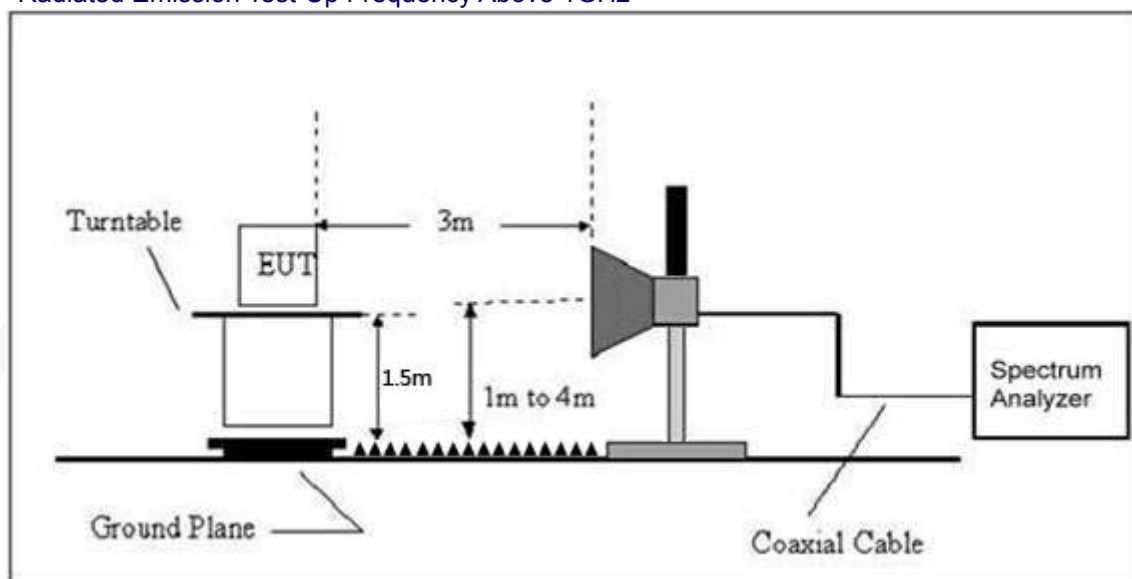




(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



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



4.2.5 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.

4.2.6 TEST RESULTS

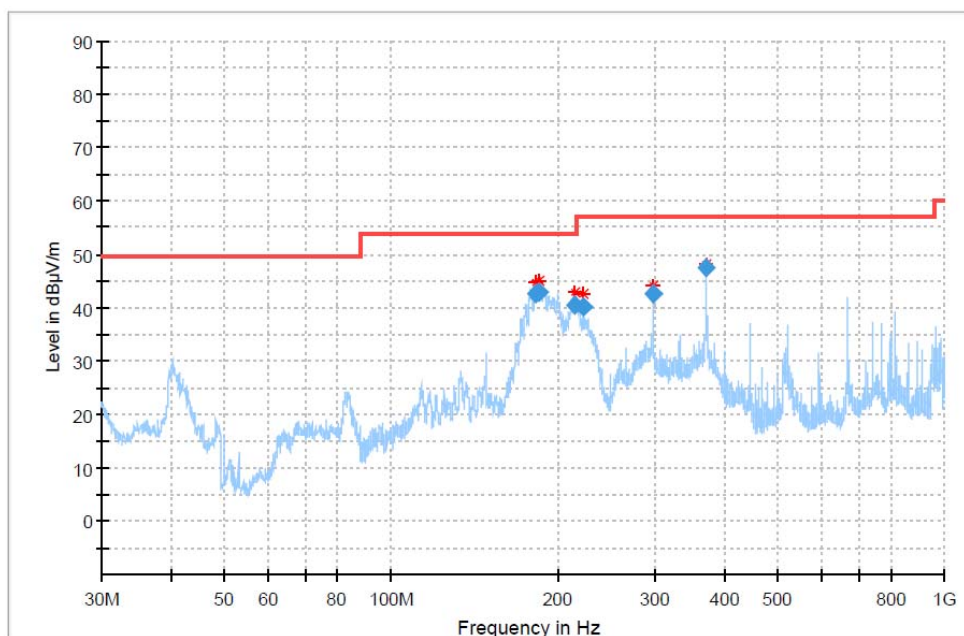
Between 9KHz – 30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.



Between 30MHz – 1GHz

Temperature:	22°C	Relative Humidity:	51%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Test Mode	Working
TEST antenna	Main antenna		

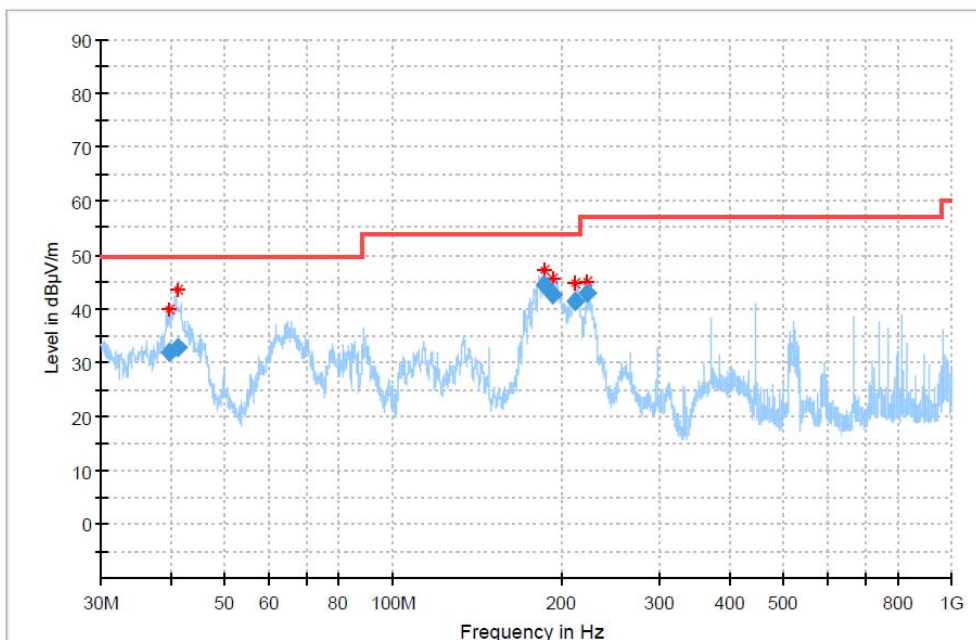


Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
182.483889	42.74	53.97	11.23	500.0	120.000	200.0	H	272.0	-33.6
185.748333	42.88	53.97	11.09	500.0	120.000	200.0	H	272.0	-33.8
215.557778	40.33	53.97	13.64	500.0	120.000	100.0	H	88.0	-32.3
222.766667	40.30	56.90	16.60	500.0	120.000	100.0	H	171.0	-32.4
297.025556	42.64	56.90	14.26	500.0	120.000	100.0	H	171.0	-29.4
371.284444	47.35	56.90	9.55	500.0	120.000	100.0	H	192.0	-26.8



Temperature:	22℃	Relative Humidity:	51%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Test Mode	Working
TEST antenna	Main antenna		



Final Result

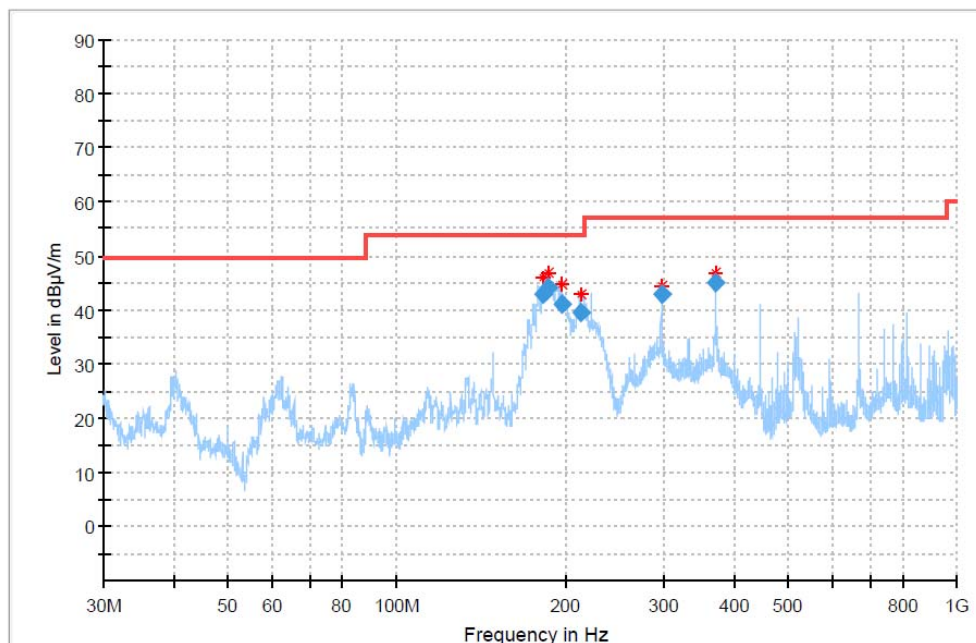
Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
39.732222	31.81	49.54	17.73	500.0	120.000	100.0	V	37.0	-29.3
41.185556	32.81	49.54	16.73	500.0	120.000	100.0	V	0.0	-29.8
186.160556	44.32	53.97	9.65	500.0	120.000	100.0	V	165.0	-33.8
193.571111	42.74	53.97	11.23	500.0	120.000	100.0	V	165.0	-33.4
212.705000	41.29	53.97	12.68	500.0	120.000	100.0	V	208.0	-32.5
222.766667	42.82	56.90	14.08	500.0	120.000	100.0	V	208.0	-32.4

Remarks:

- 1.Final Level =Receiver Read level + Correct Factor
- 2.The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3.The test data shows only the worst case 802.11b and AC 120V/60Hz mode



Temperature:	22℃	Relative Humidity:	51%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Test Mode	Working
TEST antenna	AUX antenna		

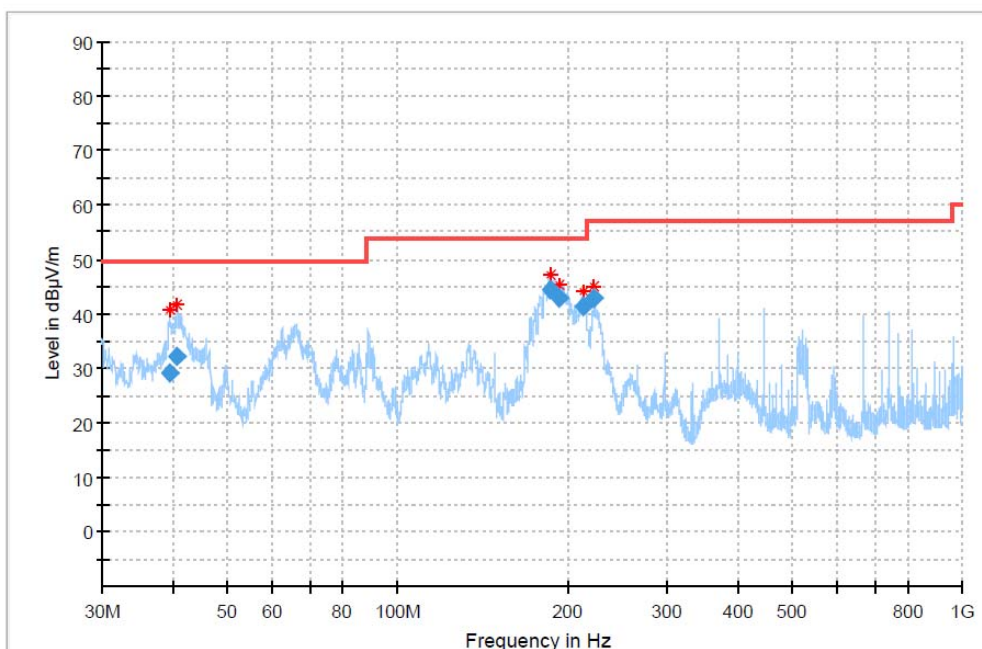


Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
182.941111	42.98	53.97	10.99	500.0	120.000	200.0	H	271.0	-33.6
186.417778	44.00	53.97	9.97	500.0	120.000	200.0	H	271.0	-33.8
196.938333	41.13	53.97	12.84	500.0	120.000	200.0	H	271.0	-33.2
212.718889	39.55	53.97	14.42	500.0	120.000	100.0	H	301.0	-32.5
296.999444	42.98	56.90	13.92	500.0	120.000	100.0	H	191.0	-29.4
371.298333	45.06	56.90	11.84	500.0	120.000	100.0	H	149.0	-26.8



Temperature:	22℃	Relative Humidity:	51%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Test Mode	Working
TEST antenna	AUX antenna		



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
39.504444	29.18	49.54	20.36	500.0	120.000	200.0	V	79.0	-29.3
40.823889	32.09	49.54	17.45	500.0	120.000	100.0	V	29.0	-29.6
185.946667	44.39	53.97	9.58	500.0	120.000	100.0	V	173.0	-33.8
193.745000	42.97	53.97	11.00	500.0	120.000	100.0	V	173.0	-33.4
212.892778	41.39	53.97	12.58	500.0	120.000	100.0	V	194.0	-32.5
222.766667	42.92	56.90	13.98	500.0	120.000	100.0	V	194.0	-32.4

Remarks:

- 1.Final Level = Receiver Read level + Correct Factor
- 2.The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3.The test data shows only the worst case 802.11b and AC 120V/60Hz mode



1GHz~25GHz

802.11b
802.11b (Main antenna)

Polar (H/V)	Frequency	Corr.	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel:2412MHz						
V	4824.00	-0.3	40.41	79.50	-39.09	PK
V	4824.00	-0.3	31.93	59.50	-27.57	AV
V	7236.00	2.5	41.67	79.50	-37.83	PK
V	7236.00	2.5	31.18	59.50	-28.32	AV
V	9648.00	4.5	43.07	79.50	-36.43	PK
V	9648.00	4.5	32.93	59.50	-26.57	AV
V	12060.00	8.0	45.55	79.50	-33.95	PK
V	12060.00	8.0	34.89	59.50	-24.61	AV
H	4824.00	-0.3	42.11	79.50	-37.39	PK
H	4824.00	-0.3	35.07	59.50	-24.43	AV
H	7236.00	2.5	41.91	79.50	-37.59	PK
H	7236.00	2.5	31.27	59.50	-28.23	AV
H	9648.00	4.5	42.99	79.50	-36.51	PK
H	9648.00	4.5	32.53	59.50	-26.97	AV
H	12060.00	8.0	45.58	79.50	-33.92	PK
H	12060.00	8.0	34.76	59.50	-24.74	AV

Polar (H/V)	Frequency	Corr.	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Middle Channel:2437MHz						
V	4874.00	0.1	41.03	79.50	-38.47	PK
V	4874.00	0.1	30.92	59.50	-28.58	AV
V	7311.00	2.4	41.60	79.50	-37.90	PK
V	7311.00	2.4	31.36	59.50	-28.14	AV
V	9748.00	4.7	43.95	79.50	-35.55	PK
V	9748.00	4.7	33.22	59.50	-26.28	AV
V	12185.00	8.4	44.95	79.50	-34.55	PK
V	12185.00	8.4	34.95	59.50	-24.55	AV
H	4874.00	0.1	40.79	79.50	-38.71	PK
H	4874.00	0.1	32.66	59.50	-26.84	AV
H	7311.00	2.4	41.11	79.50	-38.39	PK
H	7311.00	2.4	31.29	59.50	-28.21	AV
H	9748.00	4.7	43.33	79.50	-36.17	PK
H	9748.00	4.7	33.05	59.50	-26.45	AV
H	12185.00	8.4	45.12	79.50	-34.38	PK
H	12185.00	8.4	34.77	59.50	-24.73	AV



Polar (H/V)	Frequency	Corr.	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
High Channel:2462MHz						
V	4924.00	-0.2	41.30	79.50	-38.20	PK
V	4924.00	-0.2	31.19	59.50	-28.31	AV
V	7386.00	2.4	41.27	79.50	-38.23	PK
V	7386.00	2.4	30.91	59.50	-28.59	AV
V	9848.00	5.3	43.54	79.50	-35.96	PK
V	9848.00	5.3	33.38	59.50	-26.12	AV
V	12310.00	8.3	45.26	79.50	-34.24	PK
V	12310.00	8.3	35.17	59.50	-24.33	AV
H	4924.00	-0.2	43.11	79.50	-36.39	PK
H	4924.00	-0.2	35.37	59.50	-24.13	AV
H	7386.00	2.4	41.13	79.50	-38.37	PK
H	7386.00	2.4	31.18	59.50	-28.32	AV
H	9848.00	5.3	43.14	79.50	-36.36	PK
H	9848.00	5.3	33.31	59.50	-26.19	AV
H	12310.00	8.3	46.38	79.50	-33.12	PK
H	12310.00	8.3	35.62	59.50	-23.88	AV

Remark:

1. Emission Level = Meter Reading + Correct Factor, Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11b (AUX antenna)

Polar (H/V)	Frequency	Corr.	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel:2412MHz						
V	4824.00	-0.3	40.49	79.50	-39.01	PK
V	4824.00	-0.3	30.88	59.50	-28.62	AV
V	7236.00	2.5	41.21	79.50	-38.29	PK
V	7236.00	2.5	31.31	59.50	-28.19	AV
V	9648.00	4.5	42.92	79.50	-36.58	PK
V	9648.00	4.5	32.69	59.50	-26.81	AV
V	12060.00	8.0	44.76	79.50	-34.74	PK
V	12060.00	8.0	34.85	59.50	-24.65	AV
H	4824.00	-0.3	40.72	79.50	-38.78	PK
H	4824.00	-0.3	32.56	59.50	-26.94	AV
H	7236.00	2.5	41.80	79.50	-37.70	PK
H	7236.00	2.5	32.38	59.50	-28.27	AV
H	9648.00	4.5	43.36	79.50	-36.14	PK
H	9648.00	4.5	34.72	59.50	-27.12	AV
H	12060.00	8.0	44.42	79.50	-35.08	PK
H	12060.00	8.0	34.72	59.50	-24.78	AV

Polar (H/V)	Frequency	Corr.	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Middle Channel:2437MHz						
V	4874.00	0.1	41.80	79.50	-37.70	PK
V	4874.00	0.1	31.61	59.50	-27.89	AV
V	7311.00	2.4	41.64	79.50	-37.86	PK
V	7311.00	2.4	31.40	59.50	-28.10	AV
V	9748.00	4.7	43.31	79.50	-36.19	PK
V	9748.00	4.7	33.12	59.50	-26.38	AV
V	12185.00	8.4	45.13	79.50	-34.37	PK
V	12185.00	8.4	35.18	59.50	-24.32	AV
H	4874.00	0.1	41.43	79.50	-38.07	PK
H	4874.00	0.1	31.09	59.50	-28.41	AV
H	7311.00	2.4	41.38	79.50	-38.12	PK
H	7311.00	2.4	31.03	59.50	-28.47	AV
H	9748.00	4.7	42.71	79.50	-36.79	PK
H	9748.00	4.7	33.06	59.50	-26.44	AV
H	12185.00	8.4	44.27	79.50	-35.23	PK
H	12185.00	8.4	34.72	59.50	-24.78	AV



Polar (H/V)	Frequency	Corr.	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
High Channel:2462MHz						
V	4924.00	-0.2	40.53	79.50	-38.97	PK
V	4924.00	-0.2	32.14	59.50	-27.36	AV
V	7386.00	2.4	42.58	79.50	-36.92	PK
V	7386.00	2.4	31.18	59.50	-28.32	AV
V	9848.00	5.3	43.28	79.50	-36.22	PK
V	9848.00	5.3	33.53	59.50	-25.97	AV
V	12310.00	8.3	45.90	79.50	-33.60	PK
V	12310.00	8.3	35.79	59.50	-23.71	AV
H	4924.00	-0.2	41.13	79.50	-38.37	PK
H	4924.00	-0.2	31.76	59.50	-27.74	AV
H	7386.00	2.4	40.42	79.50	-39.08	PK
H	7386.00	2.4	30.93	59.50	-28.57	AV
H	9848.00	5.3	43.14	79.50	-35.58	PK
H	9848.00	5.3	33.45	59.50	-26.05	AV
H	12310.00	8.3	45.66	79.50	-33.84	PK
H	12310.00	8.3	35.27	59.50	-24.23	AV

Remark:

1. Emission Level = Meter Reading + Correct Factor, Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11g (Main antenna)

Polar (H/V)	Frequency	Corr.	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel:2412MHz						
V	4824.00	-0.3	40.62	79.50	-38.88	PK
V	4824.00	-0.3	31.22	59.50	-28.28	AV
V	7236.00	2.5	41.91	79.50	-37.59	PK
V	7236.00	2.5	31.70	59.50	-27.80	AV
V	9648.00	4.5	43.22	79.50	-36.28	PK
V	9648.00	4.5	32.76	59.50	-26.74	AV
V	12060.00	8.0	46.00	79.50	-33.50	PK
V	12060.00	8.0	35.08	59.50	-24.42	AV
H	4824.00	-0.3	41.84	79.50	-37.66	PK
H	4824.00	-0.3	33.51	59.50	-25.99	AV
H	7236.00	2.5	41.81	79.50	-37.69	PK
H	7236.00	2.5	31.57	59.50	-27.93	AV
H	9648.00	4.5	42.14	79.50	-37.36	PK
H	9648.00	4.5	32.56	59.50	-26.94	AV
H	12060.00	8.0	45.24	79.50	-34.26	PK
H	12060.00	8.0	35.12	59.50	-24.38	AV

Polar (H/V)	Frequency	Corr.	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Middle Channel:2437MHz						
V	4874.00	0.1	42.70	79.50	-36.80	PK
V	4874.00	0.1	36.18	59.50	-23.32	AV
V	7311.00	2.4	41.24	79.50	-38.26	PK
V	7311.00	2.4	31.26	59.50	-28.04	AV
V	9748.00	4.7	43.20	79.50	-36.30	PK
V	9748.00	4.7	33.11	59.50	-26.39	AV
V	12185.00	8.4	44.65	79.50	-34.80	PK
V	12185.00	8.4	35.18	59.50	-24.32	AV
H	4874.00	0.1	42.47	79.50	-37.03	PK
H	4874.00	0.1	35.95	59.50	-23.55	AV
H	7311.00	2.4	42.74	79.50	-36.76	PK
H	7311.00	2.4	31.43	59.50	-28.07	AV
H	9748.00	4.7	43.10	79.50	-36.40	PK
H	9748.00	4.7	33.02	59.50	-26.48	AV
H	12185.00	8.4	45.46	79.50	-34.05	PK
H	12185.00	8.4	35.31	59.50	-24.19	AV



Polar (H/V)	Frequency	Corr.	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
High Channel:2462MHz						
V	4924.00	-0.2	42.92	79.50	-36.58	PK
V	4924.00	-0.2	36.29	59.50	-23.21	AV
V	7386.00	2.4	41.67	79.50	-37.83	PK
V	7386.00	2.4	31.29	59.50	-28.21	AV
V	9848.00	5.3	43.68	79.50	-35.82	PK
V	9848.00	5.3	33.23	59.50	-26.27	AV
V	12310.00	8.3	45.83	79.50	-33.67	PK
V	12310.00	8.3	35.31	59.50	-24.19	AV
H	4924.00	-0.2	42.59	79.50	-36.91	PK
H	4924.00	-0.2	33.45	59.50	-24.05	AV
H	7386.00	2.4	41.21	79.50	-38.29	PK
H	7386.00	2.4	31.01	59.50	-28.49	AV
H	9848.00	5.3	43.58	79.50	-35.92	PK
H	9848.00	5.3	33.33	59.50	-26.17	AV
H	12310.00	8.3	45.17	79.50	-34.33	PK
H	12310.00	8.3	35.29	59.50	-24.21	AV

Remark:

1. Emission Level = Meter Reading + Correct Factor, Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11g (AUX antenna)

Polar (H/V)	Frequency	Corr.	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel:2412MHz						
V	4824.00	-0.3	39.91	79.50	-39.59	PK
V	4824.00	-0.3	30.52	59.50	-28.98	AV
V	7236.00	2.5	41.60	79.50	-37.90	PK
V	7236.00	2.5	31.75	59.50	-27.75	AV
V	9648.00	4.5	42.96	79.50	-36.54	PK
V	9648.00	4.5	32.76	59.50	-26.74	AV
V	12060.00	8.0	45.17	79.50	-34.33	PK
V	12060.00	8.0	32.76	59.50	-24.54	AV
H	4824.00	-0.3	42.11	79.50	-37.39	PK
H	4824.00	-0.3	33.22	59.50	-26.28	AV
H	7236.00	2.5	41.43	79.50	-38.07	PK
H	7236.00	2.5	31.51	59.50	-27.99	AV
H	9648.00	4.5	43.32	79.50	-36.18	PK
H	9648.00	4.5	32.87	59.50	-26.63	AV
H	12060.00	8.0	45.66	79.50	-33.84	PK
H	12060.00	8.0	34.93	59.50	-24.57	AV

Polar (H/V)	Frequency	Corr.	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Middle Channel:2437MHz						
V	4874.00	0.1	41.79	79.50	-37.71	PK
V	4874.00	0.1	30.58	59.50	-28.92	AV
V	7311.00	2.4	42.21	79.50	-37.29	PK
V	7311.00	2.4	31.42	59.50	-28.08	AV
V	9748.00	4.7	43.62	79.50	-35.88	PK
V	9748.00	4.7	33.42	59.50	-26.08	AV
V	12185.00	8.4	44.82	79.50	-34.68	PK
V	12185.00	8.4	33.15	59.50	-24.35	AV
H	4874.00	0.1	40.55	79.50	-38.95	PK
H	4874.00	0.1	31.70	59.50	-27.80	AV
H	7311.00	2.4	41.00	79.50	-38.50	PK
H	7311.00	2.4	31.19	59.50	-28.31	AV
H	9748.00	4.7	43.21	79.50	-36.29	PK
H	9748.00	4.7	32.98	59.50	-26.52	AV
H	12185.00	8.4	45.00	79.50	-34.50	PK
H	12185.00	8.4	35.14	59.50	-24.36	AV



Polar (H/V)	Frequency	Corr.	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
High Channel:2462MHz						
V	4924.00	-0.2	40.11	79.50	-39.39	PK
V	4924.00	-0.2	29.96	59.50	-29.54	AV
V	7386.00	2.4	40.95	79.50	-38.55	PK
V	7386.00	2.4	31.32	59.50	-28.18	AV
V	9848.00	5.3	45.31	79.50	-34.19	PK
V	9848.00	5.3	34.05	59.50	-25.45	AV
V	12310.00	8.3	45.73	79.50	-33.77	PK
V	12310.00	8.3	35.50	59.50	-24.00	AV
H	4924.00	-0.2	41.90	79.50	-37.60	PK
H	4924.00	-0.2	32.93	59.50	-26.57	AV
H	7386.00	2.4	41.99	79.50	-37.51	PK
H	7386.00	2.4	31.06	59.50	-28.44	AV
H	9848.00	5.3	43.91	79.50	-35.59	PK
H	9848.00	5.3	33.28	59.50	-26.12	AV
H	12310.00	8.3	46.35	79.50	-33.15	PK
H	12310.00	8.3	35.41	59.50	-24.09	AV

Remark:

1. Emission Level = Meter Reading + Correct Factor, Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11n20 (Main antenna)

Polar (H/V)	Frequency	Corr.	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel:2412MHz						
V	4824.00	-0.3	41.15	79.50	-38.35	PK
V	4824.00	-0.3	31.13	59.50	-28.37	AV
V	7236.00	2.5	42.40	79.50	-37.10	PK
V	7236.00	2.5	31.68	59.50	-27.82	AV
V	9648.00	4.5	43.61	79.50	-35.89	PK
V	9648.00	4.5	32.62	59.50	-26.88	AV
V	12060.00	8.0	45.21	79.50	-34.29	PK
V	12060.00	8.0	35.05	59.50	-24.45	AV
H	4824.00	-0.3	42.53	79.50	-36.97	PK
H	4824.00	-0.3	34.99	59.50	-24.51	AV
H	7236.00	2.5	42.25	79.50	-37.25	PK
H	7236.00	2.5	31.72	59.50	-27.78	AV
H	9648.00	4.5	44.49	79.50	-35.01	PK
H	9648.00	4.5	32.85	59.50	-26.65	AV
H	12060.00	8.0	44.73	79.50	-34.77	PK
H	12060.00	8.0	34.98	59.50	-24.52	AV

Polar (H/V)	Frequency	Corr.	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Middle Channel:2437MHz						
V	4874.00	0.1	41.29	79.50	-38.21	PK
V	4874.00	0.1	32.15	59.50	-27.35	AV
V	7311.00	2.4	41.17	79.50	-38.33	PK
V	7311.00	2.4	31.21	59.50	-28.29	AV
V	9748.00	4.7	42.85	79.50	-36.65	PK
V	9748.00	4.7	33.23	59.50	-26.27	AV
V	12185.00	8.4	46.10	79.50	-33.40	PK
V	12185.00	8.4	35.67	59.50	-23.83	AV
H	4874.00	0.1	43.13	79.50	-36.37	PK
H	4874.00	0.1	38.29	59.50	-21.21	AV
H	7311.00	2.4	41.05	79.50	-38.45	PK
H	7311.00	2.4	31.16	59.50	-28.34	AV
H	9748.00	4.7	43.33	79.50	-36.17	PK
H	9748.00	4.7	33.28	59.50	-26.22	AV
H	12185.00	8.4	45.37	79.50	-34.13	PK
H	12185.00	8.4	35.23	59.50	-24.27	AV



Polar (H/V)	Frequency	Corr.	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
High Channel:2462MHz						
V	4924.00	-0.2	41.58	79.50	-37.92	PK
V	4924.00	-0.2	32.80	59.50	-26.70	AV
V	7386.00	2.4	42.03	79.50	-37.47	PK
V	7386.00	2.4	31.45	59.50	-28.05	AV
V	9848.00	5.3	44.06	79.50	-35.44	PK
V	9848.00	5.3	33.39	59.50	-26.11	AV
V	12310.00	8.3	45.57	79.50	-33.93	PK
V	12310.00	8.3	36.01	59.50	-23.49	AV
H	4924.00	-0.2	45.75	79.50	-33.75	PK
H	4924.00	-0.2	40.51	59.50	-18.99	AV
H	7386.00	2.4	40.97	79.50	-38.53	PK
H	7386.00	2.4	31.23	59.50	-28.27	AV
H	9848.00	5.3	43.22	79.50	-36.28	PK
H	9848.00	5.3	33.18	59.50	-26.32	AV
H	12310.00	8.3	45.85	79.50	-33.65	PK
H	12310.00	8.3	35.38	59.50	-24.12	AV

Remark:

1. Emission Level = Meter Reading + Correct Factor, Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11n20 (AUX antenna)

Polar (H/V)	Frequency	Corr.	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel:2412MHz						
V	4824.00	-0.3	40.68	79.50	-38.82	PK
V	4824.00	-0.3	31.43	59.50	-28.07	AV
V	7236.00	2.5	41.21	79.50	-38.29	PK
V	7236.00	2.5	31.42	59.50	-28.08	AV
V	9648.00	4.5	43.50	79.50	-36.00	PK
V	9648.00	4.5	32.80	59.50	-26.70	AV
V	12060.00	8.0	45.68	79.50	-33.82	PK
V	12060.00	8.0	35.25	59.50	-24.25	AV
H	4824.00	-0.3	41.02	79.50	-38.48	PK
H	4824.00	-0.3	32.49	59.50	-27.01	AV
H	7236.00	2.5	41.04	79.50	-38.46	PK
H	7236.00	2.5	31.66	59.50	-27.84	AV
H	9648.00	4.5	42.54	79.50	-36.96	PK
H	9648.00	4.5	32.58	59.50	-26.92	AV
H	12060.00	8.0	45.40	79.50	-34.10	PK
H	12060.00	8.0	35.11	59.50	-24.39	AV

Polar (H/V)	Frequency	Corr.	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Middle Channel:2437MHz						
V	4874.00	0.1	40.93	79.50	-38.57	PK
V	4874.00	0.1	30.93	59.50	-28.57	AV
V	7311.00	2.4	42.14	79.50	-37.36	PK
V	7311.00	2.4	31.37	59.50	-28.13	AV
V	9748.00	4.7	44.89	79.50	-34.61	PK
V	9748.00	4.7	33.27	59.50	-26.23	AV
V	12185.00	8.4	45.38	79.50	-34.12	PK
V	12185.00	8.4	35.13	59.50	-24.37	AV
H	4874.00	0.1	40.82	79.50	-38.68	PK
H	4874.00	0.1	31.67	59.50	-27.83	AV
H	7311.00	2.4	42.26	79.50	-37.24	PK
H	7311.00	2.4	31.43	59.50	-28.07	AV
H	9748.00	4.7	43.55	79.50	-35.95	PK
H	9748.00	4.7	33.12	59.50	-26.38	AV
H	12185.00	8.4	44.76	79.50	-34.74	PK
H	12185.00	8.4	35.06	59.50	-24.44	AV



Polar (H/V)	Frequency	Corr.	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
High Channel:2462MHz						
V	4924.00	-0.2	42.19	79.50	-37.31	PK
V	4924.00	-0.2	30.50	59.50	-29.00	AV
V	7386.00	2.4	42.65	79.50	-36.85	PK
V	7386.00	2.4	31.69	59.50	-27.81	AV
V	9848.00	5.3	45.51	79.50	-33.99	PK
V	9848.00	5.3	33.88	59.50	-25.62	AV
V	12310.00	8.3	47.54	79.50	-31.96	PK
V	12310.00	8.3	36.30	59.50	-23.20	AV
H	4924.00	-0.2	41.24	79.50	-38.26	PK
H	4924.00	-0.2	32.32	59.50	-27.18	AV
H	7386.00	2.4	40.95	79.50	-38.55	PK
H	7386.00	2.4	31.16	59.50	-28.34	AV
H	9848.00	5.3	43.37	79.50	-36.13	PK
H	9848.00	5.3	33.48	59.50	-26.02	AV
H	12310.00	8.3	44.95	79.50	-34.55	PK
H	12310.00	8.3	35.26	59.50	-24.24	AV

Remark:

1. Emission Level = Meter Reading + Correct Factor, Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11n40 (Main antenna)

Polar (H/V)	Frequency	Corr.	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel:2422MHz						
V	4844.00	-0.1	41.63	79.50	-37.87	PK
V	4844.00	-0.1	32.99	59.50	-26.51	AV
V	7266.00	2.3	41.46	79.50	-38.04	PK
V	7266.00	2.3	31.49	59.50	-28.01	AV
V	9688.00	4.7	44.07	79.50	-35.43	PK
V	9688.00	4.7	32.94	59.50	-26.56	AV
V	12110.00	8.1	45.17	79.50	-34.33	PK
V	12110.00	8.1	35.17	59.50	-24.33	AV
H	4844.00	-0.1	41.23	79.50	-38.27	PK
H	4844.00	-0.1	32.67	59.50	-26.83	AV
H	7266.00	2.3	42.18	79.50	-37.32	PK
H	7266.00	2.3	31.59	59.50	-27.91	AV
H	9688.00	4.7	43.75	79.50	-35.75	PK
H	9688.00	4.7	32.85	59.50	-26.65	AV
H	12110.00	8.1	45.82	79.50	-33.68	PK
H	12110.00	8.1	35.60	59.50	-23.90	AV

Polar (H/V)	Frequency	Corr.	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Middle Channel:2437MHz						
V	4874.00	0.1	42.53	79.50	-36.97	PK
V	4874.00	0.1	34.76	59.50	-24.74	AV
V	7311.00	2.4	42.63	79.50	-36.87	PK
V	7311.00	2.4	31.26	59.50	-28.24	AV
V	9748.00	4.7	43.61	79.50	-35.89	PK
V	9748.00	4.7	33.39	59.50	-26.11	AV
V	12185.00	8.4	45.37	79.50	-34.13	PK
V	12185.00	8.4	35.14	59.50	-24.36	AV
H	4874.00	0.1	45.41	79.50	-34.09	PK
H	4874.00	0.1	38.98	59.50	-20.52	AV
H	7311.00	2.4	41.09	79.50	-38.41	PK
H	7311.00	2.4	31.45	59.50	-28.05	AV
H	9748.00	4.7	43.03	79.50	-36.47	PK
H	9748.00	4.7	33.14	59.50	-26.36	AV
H	12185.00	8.4	46.48	79.50	-33.02	PK
H	12185.00	8.4	35.26	59.50	-24.24	AV



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Polar (H/V)	Frequency	Corr.	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
High Channel:2452MHz						
V	4904.00	0.3	40.96	79.50	-38.54	PK
V	4904.00	0.3	30.60	59.50	-28.90	AV
V	7356.00	2.4	41.10	79.50	-38.40	PK
V	7356.00	2.4	31.21	59.50	-28.29	AV
V	9808.00	4.8	43.28	79.50	-36.22	PK
V	9808.00	4.8	33.23	59.50	-26.27	AV
V	12260.00	8.4	45.39	79.50	-34.11	PK
V	12260.00	8.4	35.45	59.50	-24.05	AV
H	4904.00	0.3	40.55	79.50	-38.96	PK
H	4904.00	0.3	30.30	59.50	-29.20	AV
H	7356.00	2.4	41.12	79.50	-38.38	PK
H	7356.00	2.4	31.29	59.50	-28.21	AV
H	9808.00	4.8	43.04	79.50	-36.46	PK
H	9808.00	4.8	33.01	59.50	-26.49	AV
H	12260.00	8.4	45.81	79.50	-33.69	PK
H	12260.00	8.4	35.26	59.50	-24.24	AV

Remark:

1. Emission Level = Meter Reading + Correct Factor, Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11n40 (AUX antenna)

Polar (H/V)	Frequency	Corr.	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel:2422MHz						
V	4844.00	-0.1	40.02	79.50	-39.48	PK
V	4844.00	-0.1	31.07	59.50	-28.43	AV
V	7266.00	2.3	42.66	79.50	-36.84	PK
V	7266.00	2.3	31.35	59.50	-28.15	AV
V	9688.00	4.7	43.87	79.50	-35.63	PK
V	9688.00	4.7	32.90	59.50	-26.60	AV
V	12110.00	8.1	45.36	79.50	-34.14	PK
V	12110.00	8.1	35.30	59.50	-24.20	AV
H	4844.00	-0.1	41.81	79.50	-37.69	PK
H	4844.00	-0.1	31.52	59.50	-27.98	AV
H	7266.00	2.3	41.38	79.50	-38.12	PK
H	7266.00	2.3	31.65	59.50	-27.85	AV
H	9688.00	4.7	43.04	79.50	-36.46	PK
H	9688.00	4.7	32.97	59.50	-26.53	AV
H	12110.00	8.1	46.19	79.50	-33.31	PK
H	12110.00	8.1	34.94	59.50	-24.56	AV

Polar (H/V)	Frequency	Corr.	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Middle Channel:2437MHz						
V	4874.00	0.1	40.80	79.50	-38.70	PK
V	4874.00	0.1	30.82	59.50	-28.68	AV
V	7311.00	2.4	42.36	79.50	-37.14	PK
V	7311.00	2.4	31.49	59.50	-28.01	AV
V	9748.00	4.7	43.67	79.50	-35.83	PK
V	9748.00	4.7	33.34	59.50	-26.16	AV
V	12185.00	8.4	45.60	79.50	-33.90	PK
V	12185.00	8.4	35.35	59.50	-24.15	AV
H	4874.00	0.1	41.55	79.50	-37.95	PK
H	4874.00	0.1	31.96	59.50	-27.54	AV
H	7311.00	2.4	41.21	79.50	-38.29	PK
H	7311.00	2.4	31.10	59.50	-28.40	AV
H	9748.00	4.7	42.58	79.50	-36.92	PK
H	9748.00	4.7	33.14	59.50	-26.36	AV
H	12185.00	8.4	44.71	79.50	-34.79	PK
H	12185.00	8.4	35.04	59.50	-24.46	AV



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Polar (H/V)	Frequency	Corr.	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
High Channel:2452MHz						
V	4904.00	0.3	41.72	79.50	-37.78	PK
V	4904.00	0.3	30.43	59.50	-29.07	AV
V	7356.00	2.4	42.73	79.50	-36.77	PK
V	7356.00	2.4	31.43	59.50	-28.07	AV
V	9808.00	4.8	43.64	79.50	-35.86	PK
V	9808.00	4.8	33.21	59.50	-26.29	AV
V	12260.00	8.4	45.61	79.50	-33.89	PK
V	12260.00	8.4	35.28	59.50	-24.22	AV
H	4904.00	0.3	40.63	79.50	-38.87	PK
H	4904.00	0.3	30.37	59.50	-29.13	AV
H	7356.00	2.4	42.30	79.50	-37.20	PK
H	7356.00	2.4	31.19	59.50	-28.31	AV
H	9808.00	4.8	43.68	79.50	-35.82	PK
H	9808.00	4.8	33.13	59.50	-26.37	AV
H	12260.00	8.4	45.82	79.50	-33.68	PK
H	12260.00	8.4	35.30	59.50	-24.20	AV

Remark:

1. Emission Level = Meter Reading + Correct Factor, Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



5. RADIATED BAND EMISSION MEASUREMENT

5.1 TEST REQUIREMENT:

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	Above	Peak	1MHz	3MHz	Peak
	1GHz	Average	1MHz	3MHz	Average

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

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

5.2 TEST PROCEDURE

Above 1GHz test procedure as below:

1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. 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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dBmargin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
7. Test the EUT in the lowest channel, the Highest channel

Note:

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

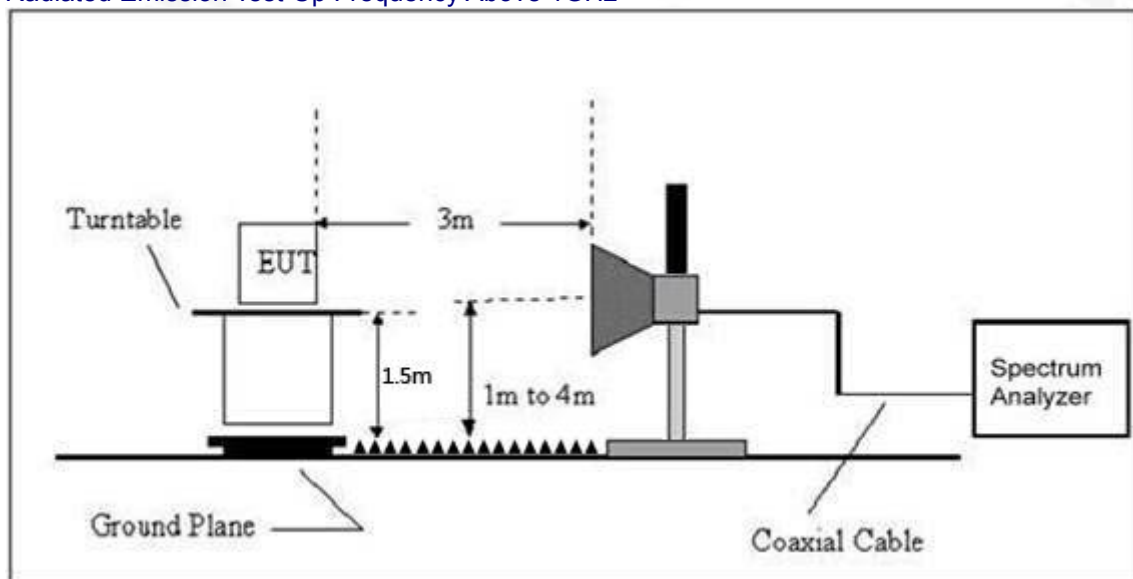
5.3 DEVIATION FROM TEST STANDARD

No deviation



5.4 TEST SETUP

Radiated Emission Test-Up Frequency Above 1GHz



5.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



5.6 TEST RESULT

	Polar (H/V)	Frequency (MHz)	Corr. (dB/m)	Emission level (dBuV/m)	Limit (dBuV/ m)	Detector Type	Result
802.11b (Main antenna)	Low Channel 2412MHz						
	H	2390.00	11.6	45.30	74.00	PK	PASS
	H	2390.00	11.6	35.02	54.00	AV	PASS
	H	2400.00	11.7	55.92	74.00	PK	PASS
	H	2400.00	11.7	51.13	54.00	AV	PASS
	V	2390.00	11.6	42.75	74.00	PK	PASS
	V	2390.00	11.6	34.03	54.00	AV	PASS
	V	2400.00	11.7	52.13	74.00	PK	PASS
	V	2400.00	11.7	47.27	54.00	AV	PASS
	High Channel 2462MHz						
	H	2483.50	12.6	44.78	74.00	PK	PASS
	H	2485.50	12.6	34.81	54.00	AV	PASS
	H	2483.50	12.6	45.69	74.00	PK	PASS
	H	2485.50	12.6	35.12	54.00	AV	PASS
	V	2483.50	12.6	43.37	74.00	PK	PASS
	V	2485.50	12.6	33.71	54.00	AV	PASS
	V	2483.50	12.6	44.65	74.00	PK	PASS
	V	2485.50	12.6	33.40	54.00	AV	PASS
802.11g (Main antenna)	Low Channel 2412MHz						
	H	2390.00	11.6	43.72	74.00	PK	PASS
	H	2390.00	11.6	34.66	54.00	AV	PASS
	H	2400.00	11.7	65.13	74.00	PK	PASS
	H	2400.00	11.7	46.99	54.00	AV	PASS
	V	2390.00	11.6	43.43	74.00	PK	PASS
	V	2390.00	11.6	33.21	54.00	AV	PASS
	V	2400.00	11.7	62.38	74.00	PK	PASS
	V	2400.00	11.7	43.38	54.00	AV	PASS
	High Channel 2462MHz						
	H	2483.50	12.6	46.93	74.00	PK	PASS
	H	2485.50	12.6	36.57	54.00	AV	PASS
	H	2483.50	12.6	45.74	74.00	PK	PASS
	H	2485.50	12.6	36.02	54.00	AV	PASS
	V	2483.50	12.6	43.33	74.00	PK	PASS
	V	2485.50	12.6	34.91	54.00	AV	PASS
	V	2483.50	12.6	44.27	74.00	PK	PASS
	V	2485.50	12.6	34.08	54.00	AV	PASS
802.11n20 (Main antenna)	Low Channel 2412MHz						
	H	2390.00	11.6	44.55	74.00	PK	PASS
	H	2390.00	11.6	34.59	54.00	AV	PASS
	H	2400.00	11.7	64.32	74.00	PK	PASS
	H	2400.00	11.7	47.02	54.00	AV	PASS
	V	2390.00	11.6	43.65	74.00	PK	PASS
	V	2390.00	11.6	33.17	54.00	AV	PASS
	V	2400.00	11.7	62.16	74.00	PK	PASS
	V	2400.00	11.7	42.76	54.00	AV	PASS
	High Channel 2462MHz						
	H	2483.50	12.6	46.39	74.00	60.35	PASS
	H	2485.50	12.6	37.15	54.00	51.68	PASS
	H	2483.50	12.6	45.34	74.00	61.22	PASS
	H	2485.50	12.6	36.48	54.00	53.24	PASS
	V	2483.50	12.6	43.97	74.00	61.03	PASS
	V	2485.50	12.6	34.18	54.00	52.45	PASS
	V	2483.50	12.6	43.07	74.00	61.22	PASS
	V	2485.50	12.6	34.11	54.00	52.36	PASS



802.11n40 (Main antenna)	Low Channel 2422MHz						
	H	2390.00	11.6	44.15	74.00	PK	PASS
	H	2390.00	11.6	34.93	54.00	AV	PASS
	H	2400.00	11.7	58.09	74.00	PK	PASS
	H	2400.00	11.7	49.22	54.00	AV	PASS
	V	2390.00	11.6	43.61	74.00	PK	PASS
	V	2390.00	11.6	33.64	54.00	AV	PASS
	V	2400.00	11.7	53.57	74.00	PK	PASS
	V	2400.00	11.7	45.04	54.00	AV	PASS
	High Channel 2452MHz						
	H	2483.50	12.6	46.29	74.00	PK	PASS
	H	2485.50	12.6	38.00	54.00	AV	PASS
	H	2483.50	12.6	45.35	74.00	PK	PASS
	H	2485.50	12.6	36.59	54.00	AV	PASS
	V	2483.50	12.6	43.78	74.00	PK	PASS
	V	2485.50	12.6	34.26	54.00	AV	PASS
	V	2483.50	12.6	44.06	74.00	PK	PASS
	V	2485.50	12.6	34.68	52.36	AV	PASS

	Polar (H/V)	Frequency (MHz)	Corr. (dB/m)	Emission level (dBuV/m)	Limit (dBuV/ m)	Detector Type	Result
802.11b (AUX antenna)	Low Channel 2412MHz						
	H	2390.00	11.6	44.91	74.00	PK	PASS
	H	2390.00	11.6	34.33	54.00	AV	PASS
	H	2400.00	11.7	54.88	74.00	PK	PASS
	H	2400.00	11.7	50.46	54.00	AV	PASS
	V	2390.00	11.6	43.18	74.00	PK	PASS
	V	2390.00	11.6	33.76	54.00	AV	PASS
	V	2400.00	11.7	51.69	74.00	PK	PASS
	V	2400.00	11.7	46.44	54.00	AV	PASS
	High Channel 2462MHz						
	H	2483.50	12.6	43.82	74.00	PK	PASS
	H	2485.50	12.6	34.07	54.00	AV	PASS
	H	2483.50	12.6	43.47	74.00	PK	PASS
	H	2485.50	12.6	34.57	54.00	AV	PASS
	V	2483.50	12.6	44.07	74.00	PK	PASS
	V	2485.50	12.6	33.64	54.00	AV	PASS
	V	2483.50	12.6	44.57	74.00	PK	PASS
	V	2485.50	12.6	34.11	54.00	AV	PASS
802.11g (AUX antenna)	Low Channel 2412MHz						
	H	2390.00	11.6	43.30	74.00	PK	PASS
	H	2390.00	11.6	34.78	54.00	AV	PASS
	H	2400.00	11.7	66.89	74.00	PK	PASS
	H	2400.00	11.7	47.01	54.00	AV	PASS
	V	2390.00	11.6	42.91	74.00	PK	PASS
	V	2390.00	11.6	32.99	54.00	AV	PASS
	V	2400.00	11.7	57.90	74.00	PK	PASS
	V	2400.00	11.7	41.99	54.00	AV	PASS
	High Channel 2462MHz						
	H	2483.50	12.6	47.77	74.00	PK	PASS
	H	2485.50	12.6	35.66	54.00	AV	PASS
	H	2483.50	12.6	44.67	74.00	PK	PASS
	H	2485.50	12.6	34.95	54.00	AV	PASS
	V	2483.50	12.6	45.03	74.00	PK	PASS
	V	2485.50	12.6	35.23	54.00	AV	PASS
	V	2483.50	12.6	44.05	74.00	PK	PASS
	V	2485.50	12.6	34.65	54.00	AV	PASS



802.11n20 (AUX antenna)	Low Channel 2412MHz						
	H	2390.00	11.6	44.58	74.00	PK	PASS
	H	2390.00	11.6	34.66	54.00	AV	PASS
	H	2400.00	11.7	66.24	74.00	PK	PASS
	H	2400.00	11.7	48.74	54.00	AV	PASS
	V	2390.00	11.6	42.56	74.00	PK	PASS
	V	2390.00	11.6	33.99	54.00	AV	PASS
	V	2400.00	11.7	62.06	74.00	PK	PASS
	V	2400.00	11.7	43.84	54.00	AV	PASS
	High Channel 2462MHz						
	H	2483.50	12.6	49.12	74.00	60.35	PASS
	H	2485.50	12.6	36.68	54.00	51.68	PASS
	H	2483.50	12.6	44.38	74.00	61.22	PASS
	H	2485.50	12.6	35.90	54.00	53.24	PASS
	V	2483.50	12.6	45.06	74.00	61.03	PASS
	V	2485.50	12.6	35.42	54.00	52.45	PASS
	V	2483.50	12.6	44.64	74.00	61.22	PASS
	V	2485.50	12.6	34.64	54.00	52.36	PASS
802.11n40 (AUX antenna)	Low Channel 2422MHz						
	H	2390.00	11.6	44.13	74.00	PK	PASS
	H	2390.00	11.6	34.62	54.00	AV	PASS
	H	2400.00	11.7	56.55	74.00	PK	PASS
	H	2400.00	11.7	49.23	54.00	AV	PASS
	V	2390.00	11.6	44.02	74.00	PK	PASS
	V	2390.00	11.6	33.63	54.00	AV	PASS
	V	2400.00	11.7	53.55	74.00	PK	PASS
	V	2400.00	11.7	45.63	54.00	AV	PASS
	High Channel 2452MHz						
	H	2483.50	12.6	46.02	74.00	PK	PASS
	H	2485.50	12.6	36.23	54.00	AV	PASS
	H	2483.50	12.6	44.64	74.00	PK	PASS
	H	2485.50	12.6	35.40	54.00	AV	PASS
	V	2483.50	12.6	44.78	74.00	PK	PASS
	V	2485.50	12.6	35.08	54.00	AV	PASS
	V	2483.50	12.6	44.82	74.00	PK	PASS
	V	2485.50	12.6	34.64	52.36	AV	PASS



6. POWER SPECTRAL DENSITY TEST

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB558074 D0115.247 Meas Guidancev05r02

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8dBm/3kHz	2400-2483.5	PASS

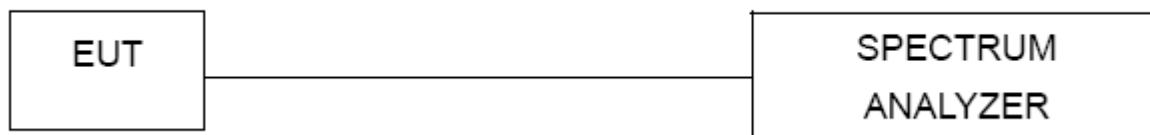
6.2 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

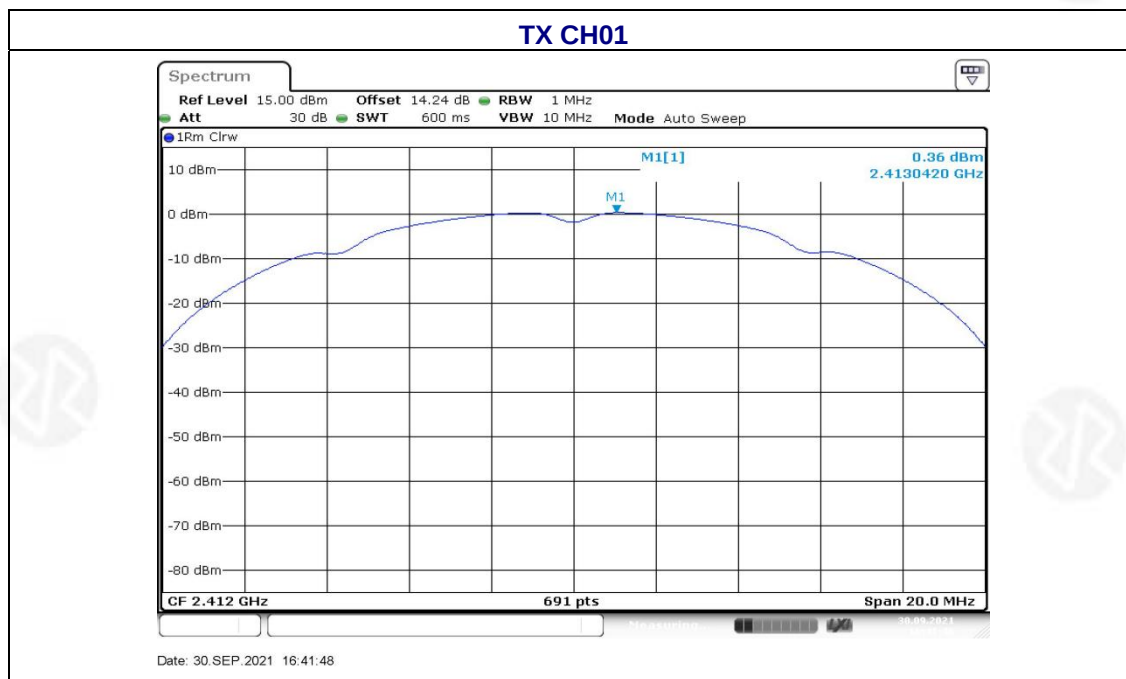
The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

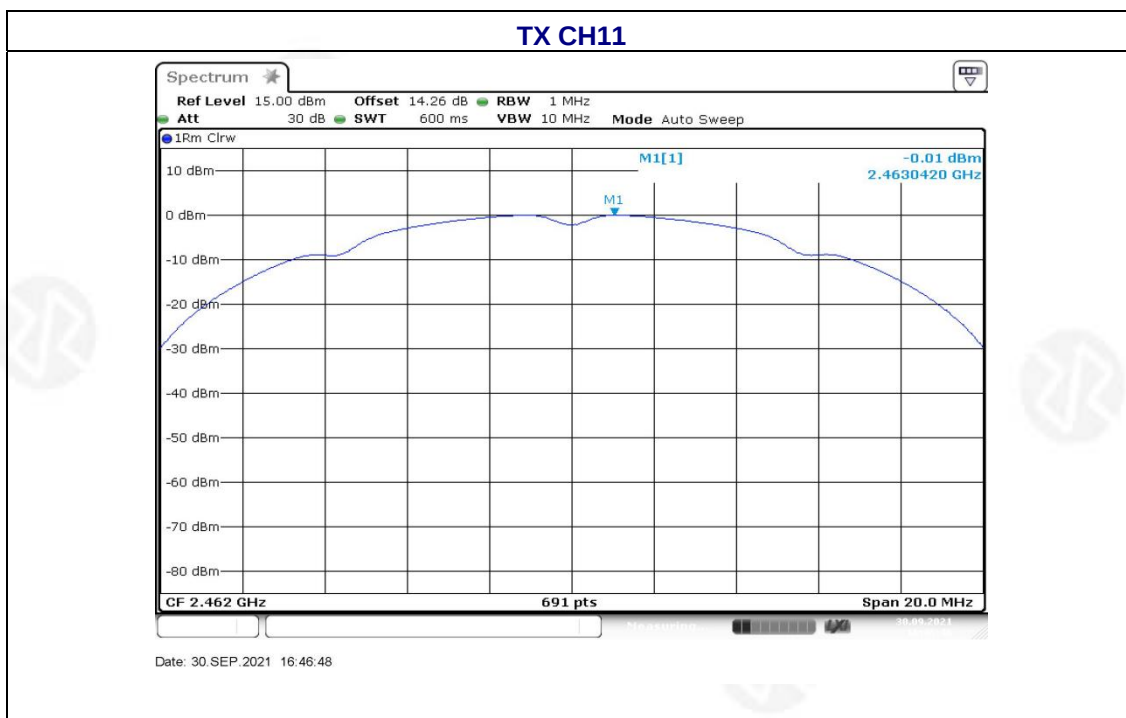
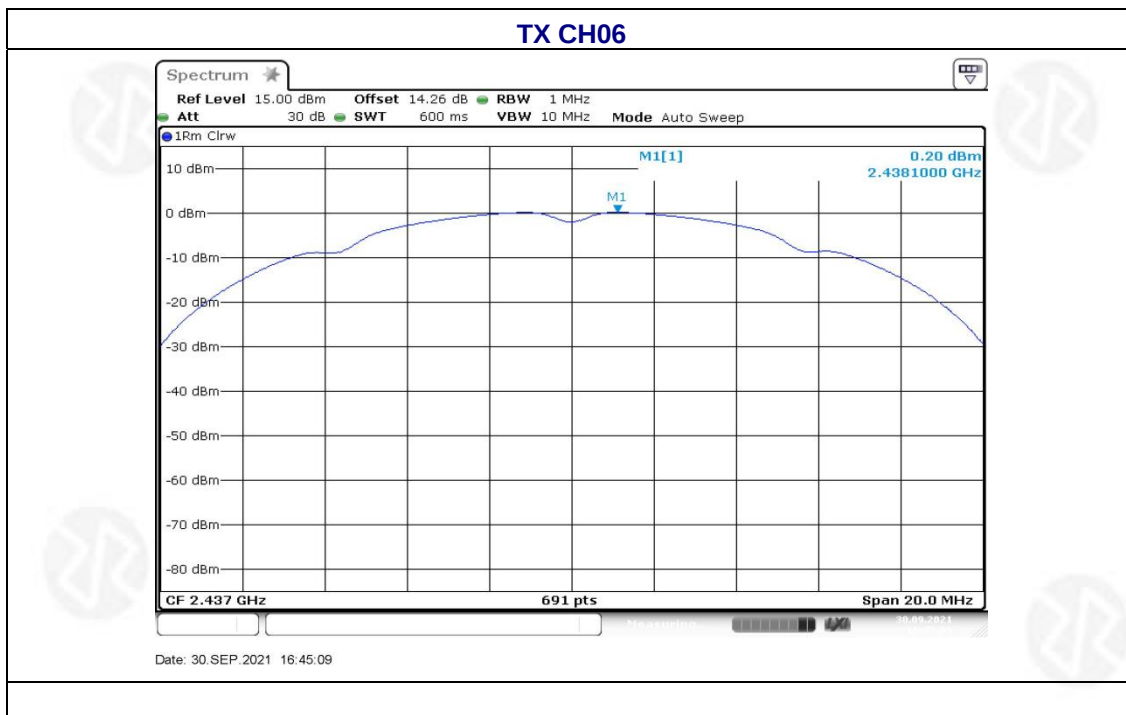


6.6 TEST RESULT

Temperature :	26℃	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 12V
Test Mode :	TX b Mode	Antenna :	Main Antenna

Frequency	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	0.36	8	PASS
2437 MHz	0.20	8	PASS
2462 MHz	-0.01	8	PASS

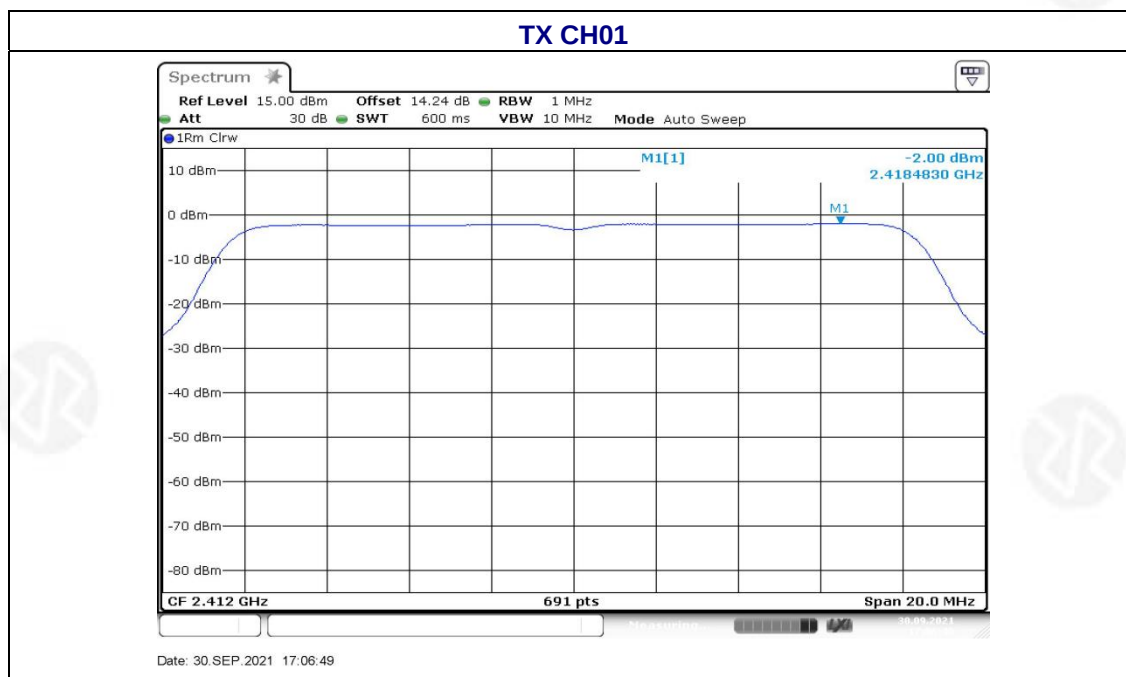


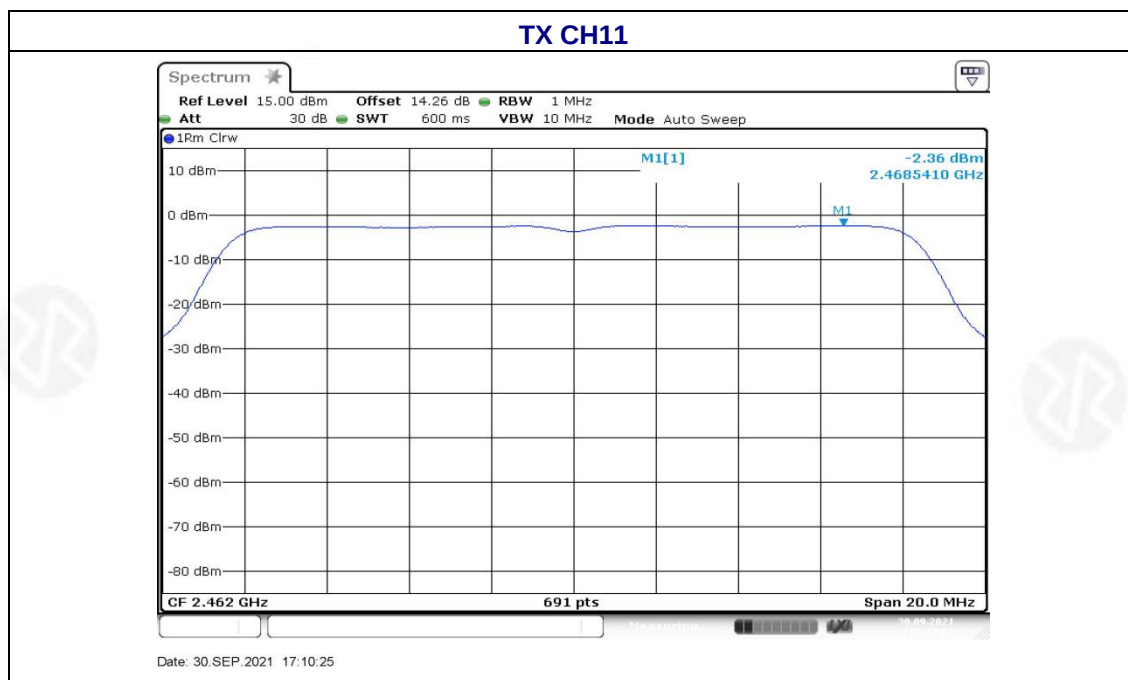
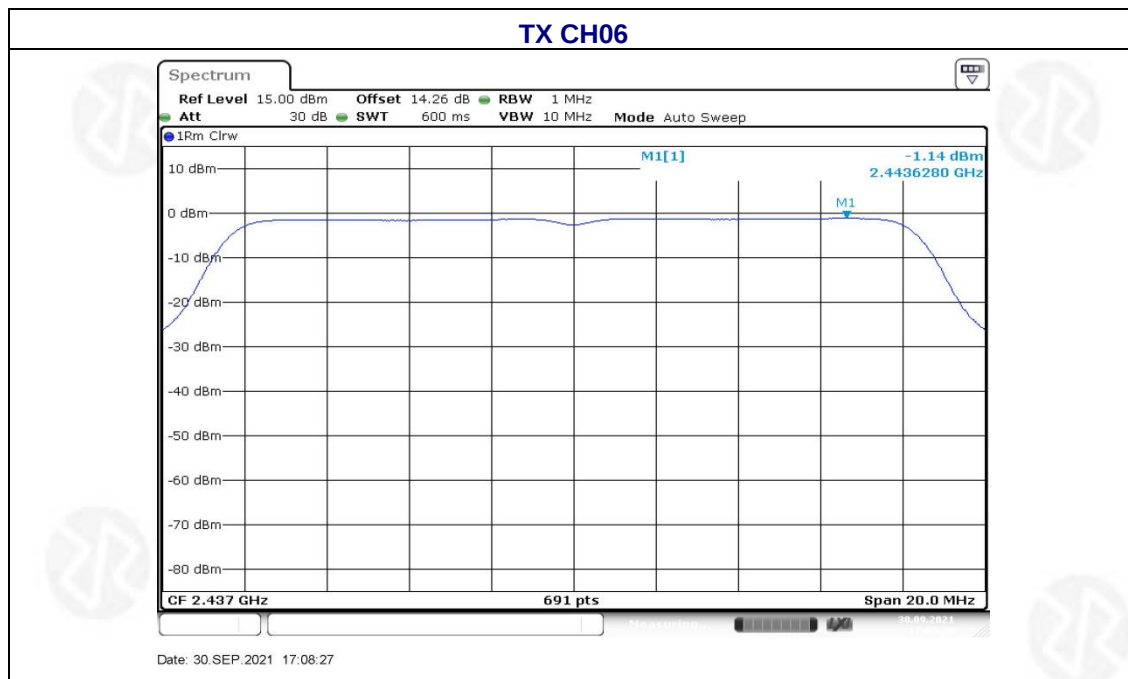




Temperature :	26°C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 12V
Test Mode :	TX g Mode	Antenna :	Main Antenna

Frequency	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-2.00	8	PASS
2437 MHz	-1.14	8	PASS
2462 MHz	-2.36	8	PASS

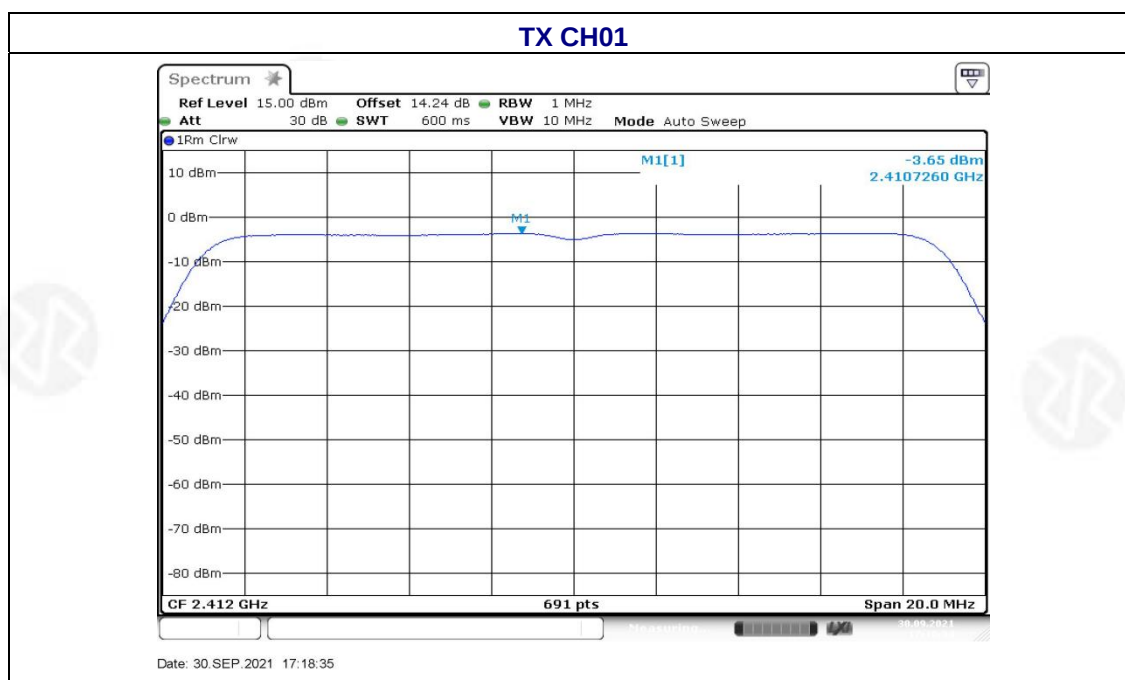


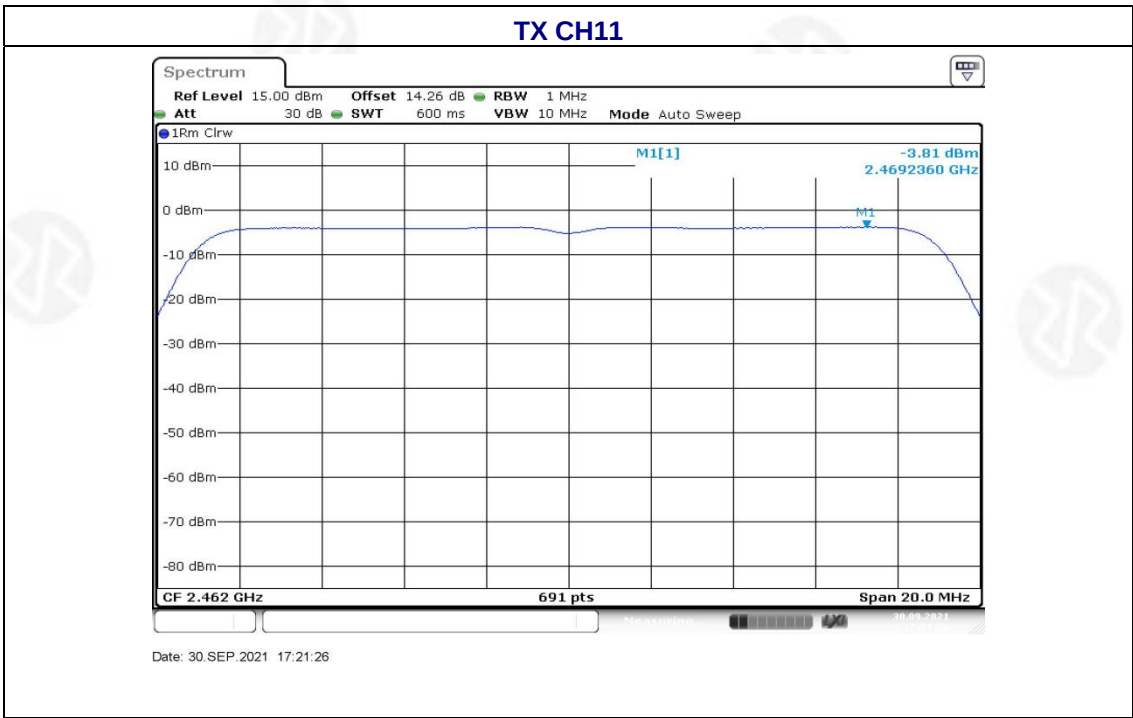
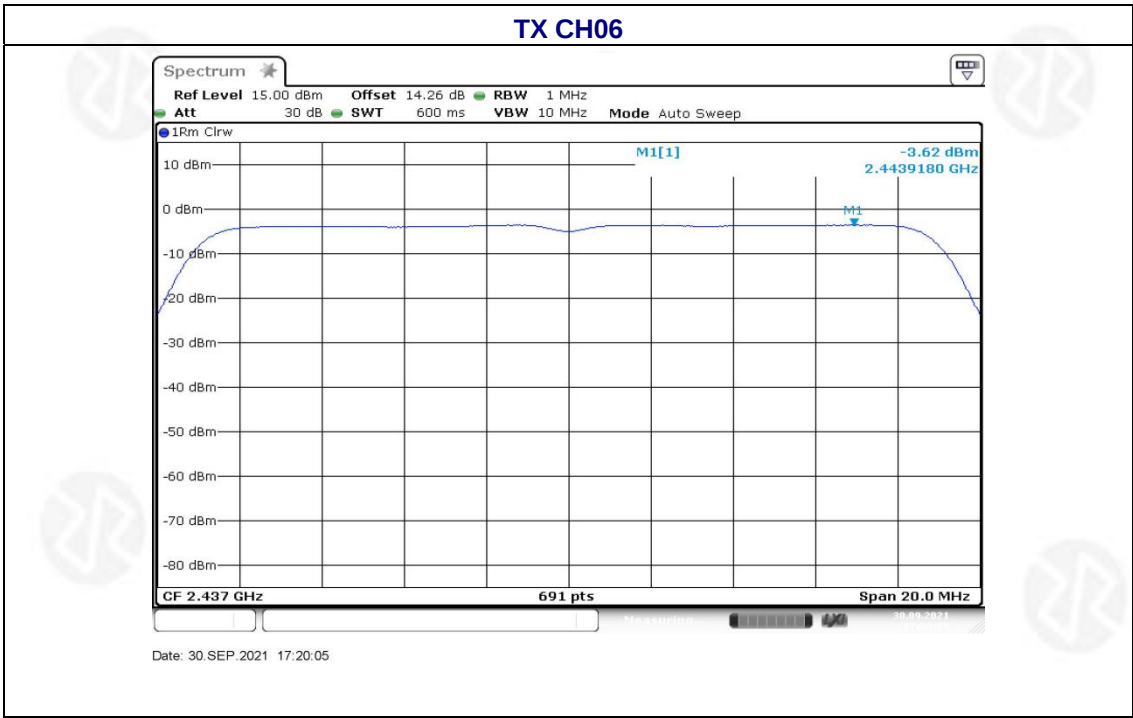




Temperature :	26℃	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 12V
Test Mode :	TX n Mode(20M)	Antenna :	Main Antenna

Frequency	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-3.65	8	PASS
2437 MHz	-3.62	8	PASS
2462 MHz	-3.81	8	PASS

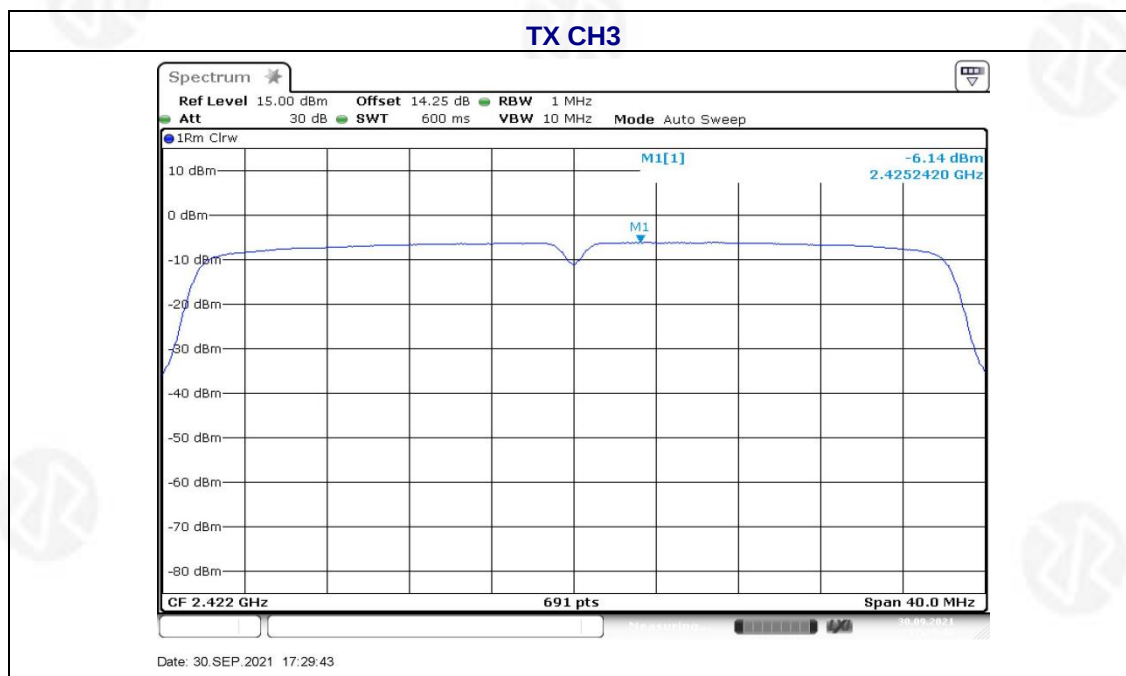


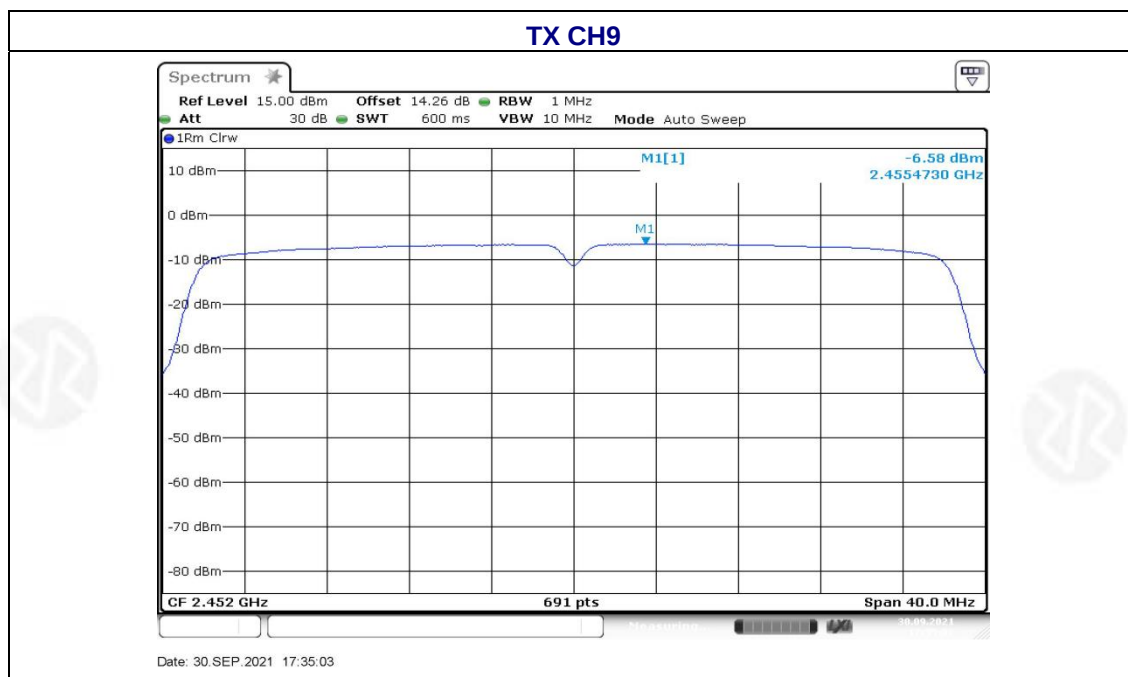
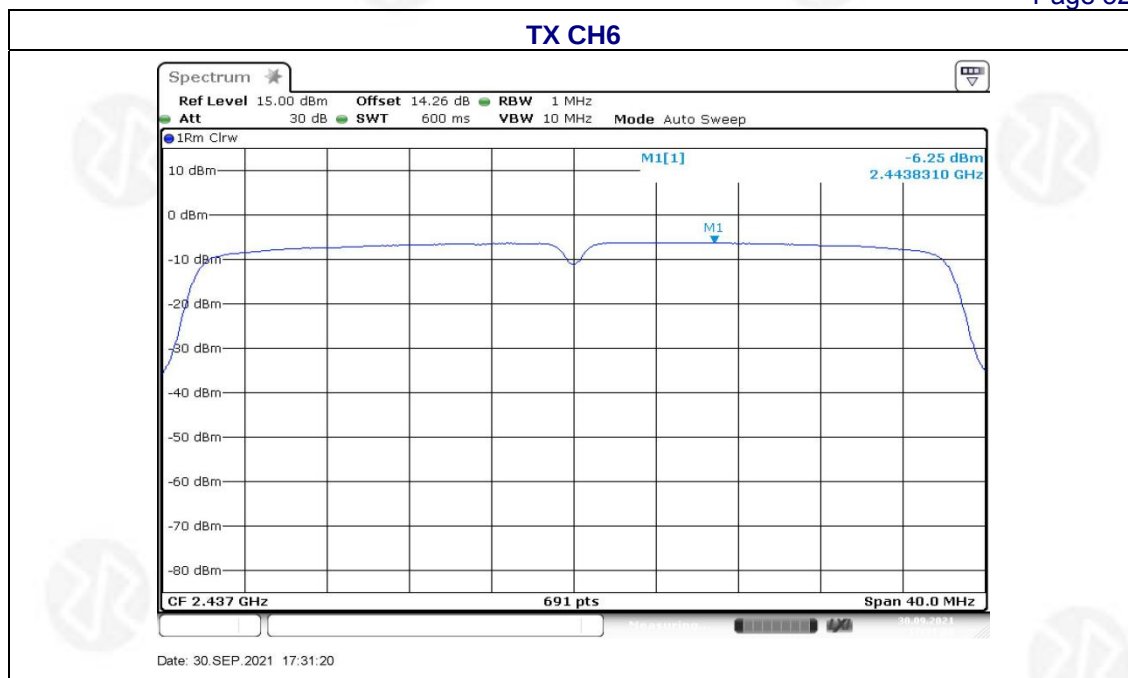




Temperature :	26°C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 12V
Test Mode :	TX n Mode(40M)	Antenna :	Main Antenna

Frequency	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422 MHz	-6.14	8	PASS
2437 MHz	-6.25	8	PASS
2452 MHz	-6.58	8	PASS

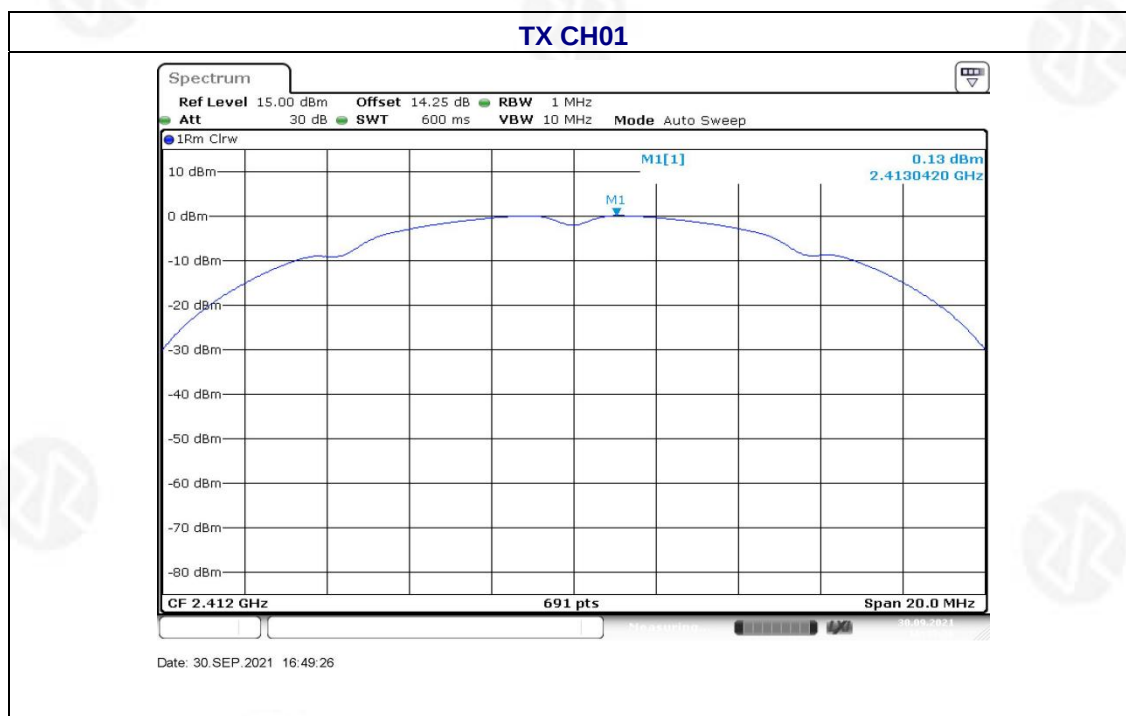






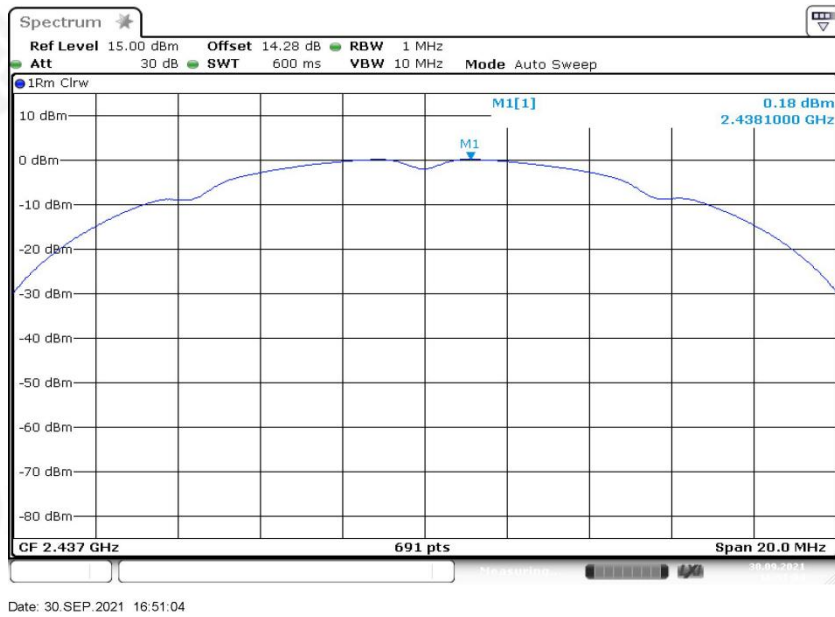
Temperature :	26°C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 12V
Test Mode :	TX b Mode	Antenna :	AUX Antenna

Frequency	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	0.13	8	PASS
2437 MHz	0.18	8	PASS
2462 MHz	-0.05	8	PASS

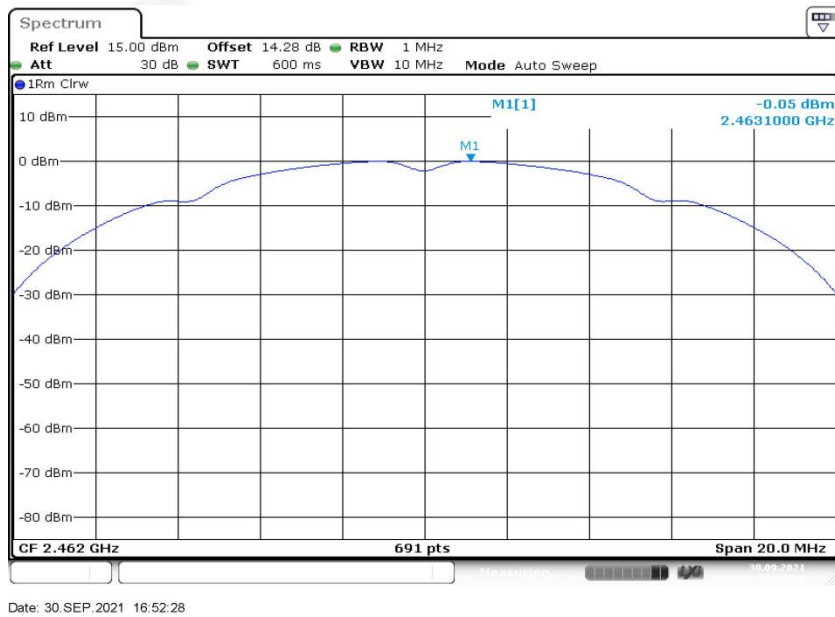




TX CH06



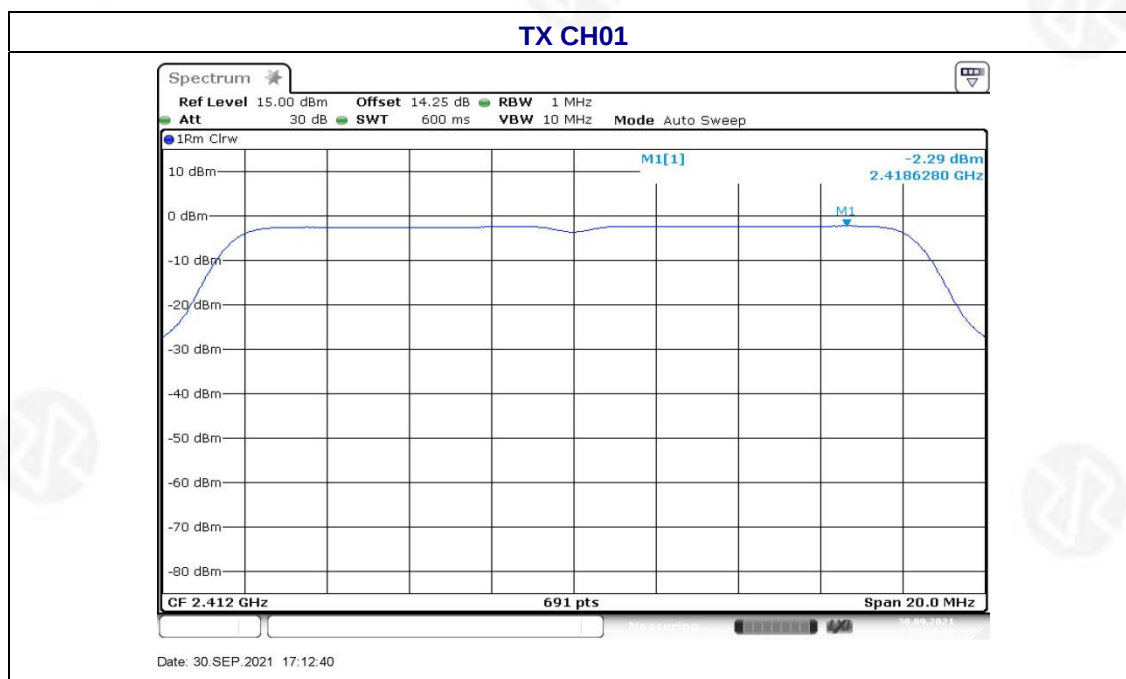
TX CH11

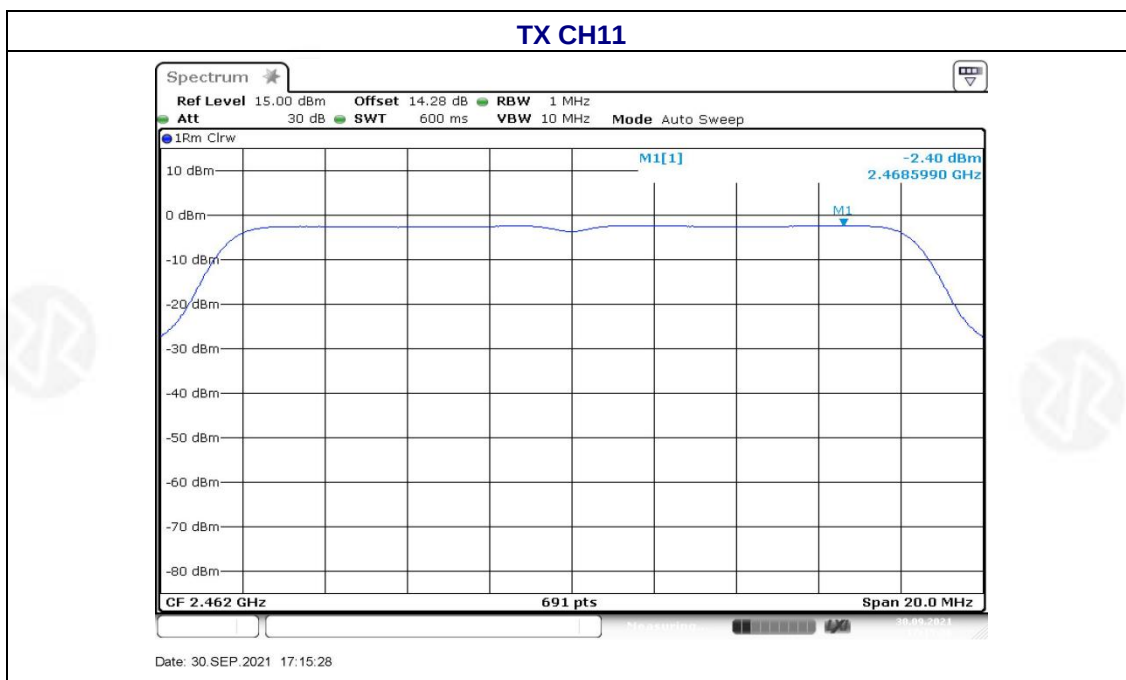
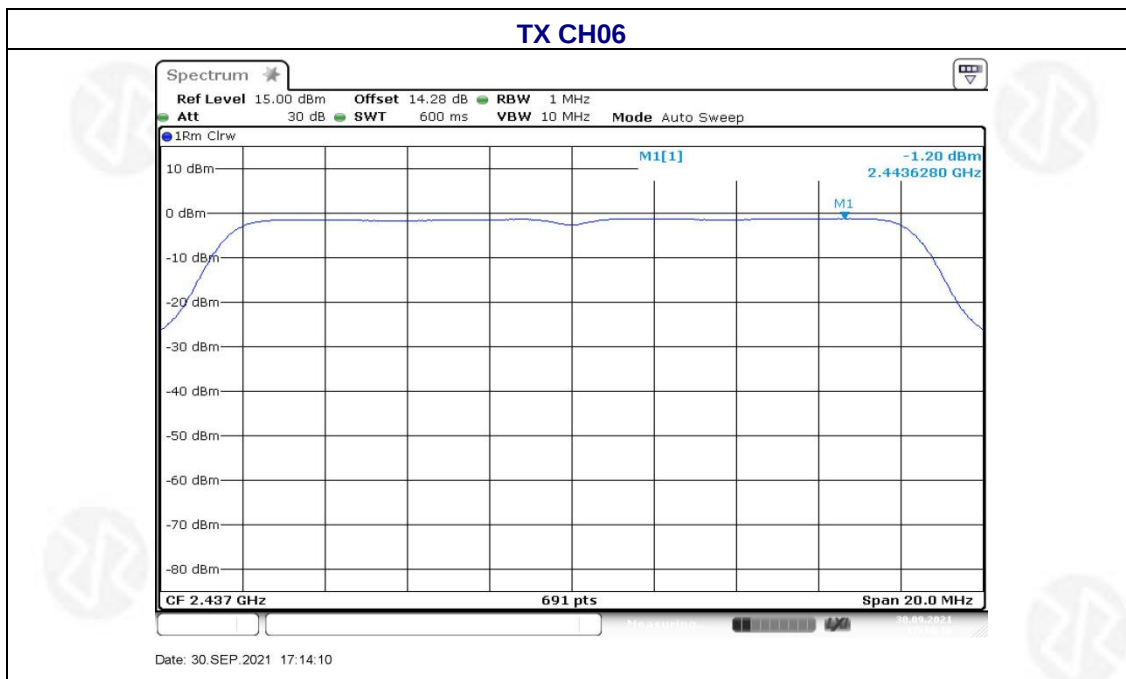




Temperature :	26°C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 12V
Test Mode :	TX g Mode	Antenna :	AUX Antenna

Frequency	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-2.29	8	PASS
2437 MHz	-1.20	8	PASS
2462 MHz	-2.40	8	PASS

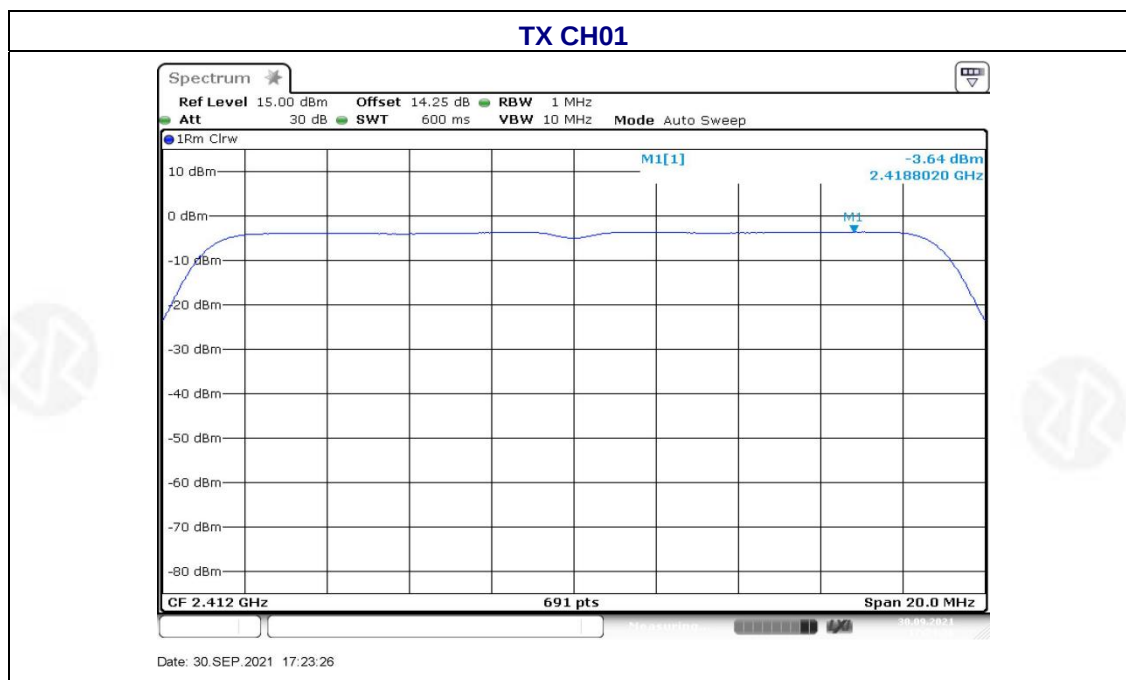


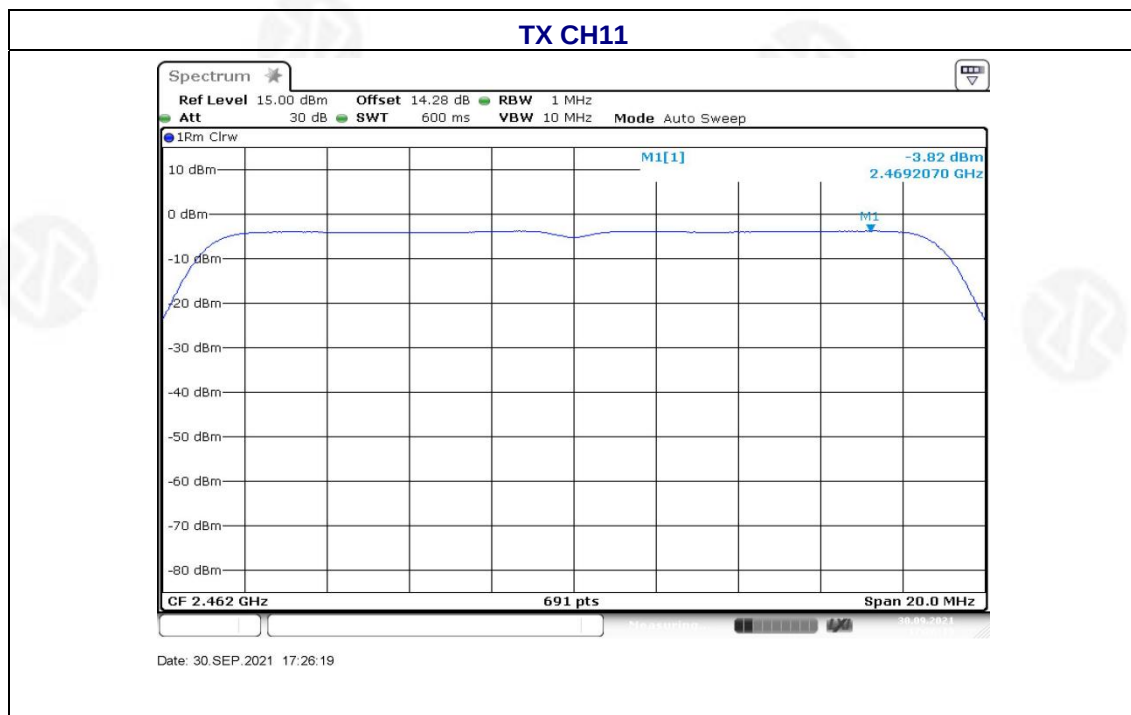
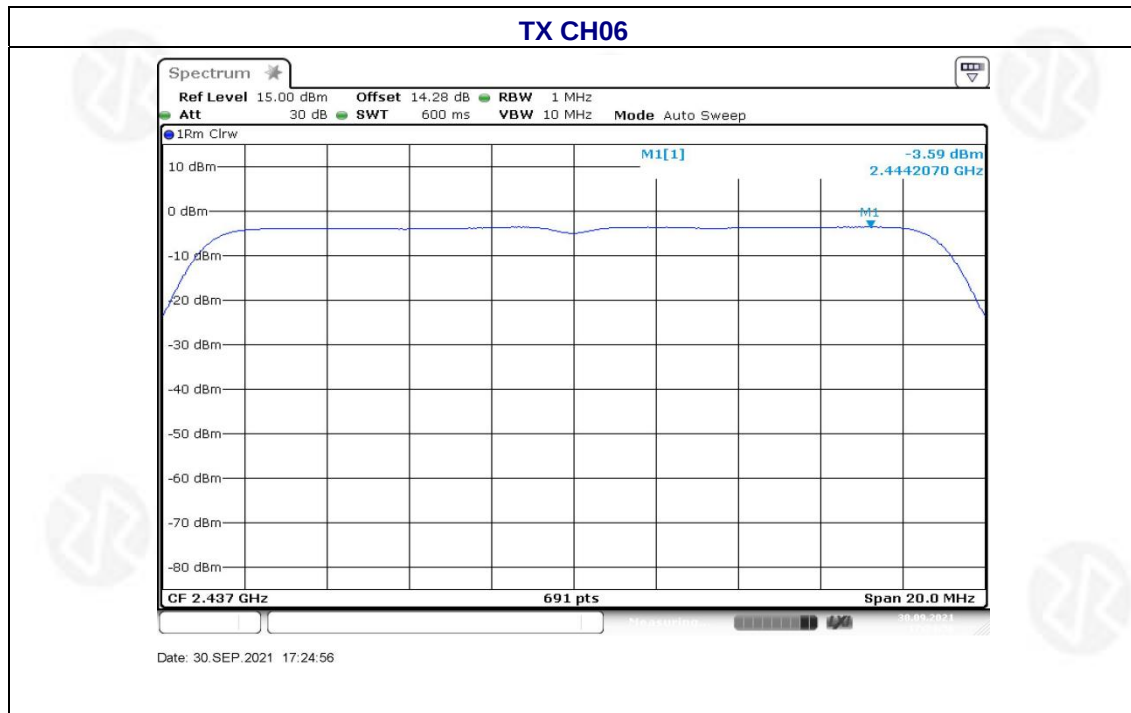




Temperature :	26℃	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 12V
Test Mode :	TX n Mode(20M)	Antenna :	AUX Antenna

Frequency	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-3.64	8	PASS
2437 MHz	-3.59	8	PASS
2462 MHz	-3.82	8	PASS







Temperature :	26°C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC 12V
Test Mode :	TX n Mode(40M)	Antenna :	AUX Antenna

Frequency	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422 MHz	-6.12	8	PASS
2437 MHz	-6.22	8	PASS
2452 MHz	-6.53	8	PASS

