FCC TEST REPORT

Report No: STS1502047F03

Issued for

Posh Mobile Limited

1011A, 10/F., Harbour Centre Tower 1, No.1 Hok Cheung St., Hung Hom, Kowloon, Hong Kong

Product Name:	Revel Pro
Brand Name:	POSH
Model No.:	X510A
Series Model:	X510B
FCC ID:	2ABN6X510
Test Standard:	FCC Part 15.247

Shenzhen STS Test Services Co., Ltd.
1/F, Building B, Zhuoke Science Park, Chongqing Road, Fuyong, Baoan District, Shenzhen, China
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TEST RESULT CERTIFICATION

Applicant's name	:	Posh Mobile Limited
Address	:	1011A, 10/F., Harbour Centre Tower 1, No.1 Hok Cheung St., Hung Hom, Kowloon, Hong Kong
Manufacture's Name	:	Shenzhen Posh Mobile Limited
Address	:	Room 6G,Block C,NEO Building,Chegongmiao,Futian District,Shenzhen,P.R.China

Product description

Product name	:	Revel Pro
Model and/or type reference	:	X510A
Serial Model	:	X510B
Standards	:	FCC Part15.247
Test procedure	:	ANSI C63.10-2009

This device described above has been tested by STS, 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	:	01 Feb. 2015 ~08 Feb. 2015
Date of Issue	:	09 Feb. 2015
Test Result	:	**Pass**

Testing Engineer : (Jin Ming)

Report writing : (Sunny zheng)

Authorized Signatory : (Bovey Yang)

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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247 (a)(2)	6dB Bandwidth	PASS	
15.247 (b) (reference KDB 558074 d05 v02. /9.1.2)	Peak Output Power	PASS	
15.247 (c)	Radiated Spurious Emission	PASS	
15.247 (d)	Conducted Spurious Emission	PASS	
15.247 (e)	Power Spectral Density	PASS	
15.205	Band Edge Emission	PASS	
15.203	Antenna Requirement	PASS	

NOTE:

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

1.1 TEST FACILITY

Shenzhen STS Test Services Co., Ltd.

Add. : 1/F, Building 2, Zhuoke Science Park, Chongqing Road, Fuyong, Baoan District, Shenzhen, China.

FCC Registration No.: 842334; IC Registration No.: 12108A-1

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	Revel Pro
Trade Name	POSH
Model Name	X510A
Serial Model	X510B
Model Difference	only different in model name
Product Description	The EUT is a Revel Pro Operation Frequency: 802.11b/g/n 20: 2412~2462 MHz 802.11n 40: 2422~2452MHz Modulation Type: CCK/OFDM/DBPSK/DAPSK Bit Rate of Transmitter 802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n(20/40MHz):300/150/144.44/130/117/115.56/104/86.67/78/52/6.5Mbps Number Of Channel 802.11b/g/n20: 11CH 802.11n 40: 7CH Antenna Designation: Please see Note 3. Antenna Gain (dBi) 0 dbi
Channel List	Please refer to the Note 2.
Ratings	DC 3.7V from battery
Adapter	Power supply and ADP（rating）： Input:100-240V AC,50/60Hz 0.15A Output:5.0V,1000mA
Battery	Rated Voltage: 3.8V Charge Limit: 4.2V capacity :2200mAh
Hardware version number	TMBZb
Software versioning number	POSH_X510A_V06_20150209
Connecting I/O Port(s)	Please refer to the User's Manual

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2.

Channel List for 802.11b/g/n(20MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

Channel List for 802.11n(40MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
03	2422	06	2437	09	2452		
04	2427	07	2442				
05	2432	08	2447				

3. Table for Filed Antenna

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

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	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n(20)CH1/ CH6/ CH11
Mode 4	802.11n(40) CH3/ CH6/ CH9
Mode 5	Link Mode

For Conducted Emission	
Final Test Mode	Description
Mode 5	Link Mode

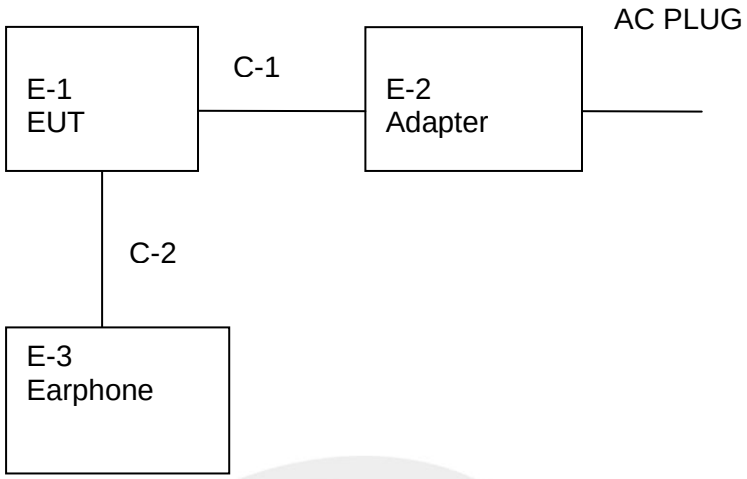
For Radiated Emission	
Final Test Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n CH1/ CH6/ CH11
Mode 4	802.11n(40) CH3/ CH6/ CH9
Mode 5	Link Mode

Note:

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

(2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TEST



2.4 DESCRIPTION OF SUPPORT UNITS

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

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Revel Pro	POSH	X510A	X510B	EUT
E-2	Adapter	POSH	C01-X510A	N/A	
E-3	Earphone	N/A	N/A	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	YES	1.5m	
C-2	NO	NO	1.2m	

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

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Spectrum Analyzer	Agilent	E4407B	MY50140340	2014.10.25	2015.10.24
Test Receiver	R&S	ESCI	101427	2014.10.25	2015.10.24
Bilog Antenna	TESEQ	CBL6111D	34678	2014.10.27	2015.10.26
Horn Antenna	R&S	9120D	152265	2014.10.27	2015.10.26
Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2014.07.06	2015.07.05
Amplifier	Agilent	8449B	60538	2014.10.25	2015.10.24
Loop Antenna	ARA	PLA-1030/B	1029	2014.06.08	2015.06.07
Power Meter	Anritsu	ML2495A	1204003	2014.10.25	2015.10.24
Power Sensor	Anritsu	MA2411B	100309	2014.10.25	2015.10.24
Low frequency cable	N/A	R01	N/A	2014.10.25	2015.10.24
High frequency cable	N/A	R02	N/A	2014.10.25	2015.10.24

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	102086	2014.10.25	2015.10.24
LISN	R&S	ENV216	101242	2014.10.25	2015.10.24
LISN	EMCO	3810/2NM	000-23625	2014.10.25	2015.10.24
Conduction Cable	HUBER+SUHNER	C01	N/A	2014.10.25	2015.10.24

3. EMC 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 15.247&207(a) limit in the table below has to be followed.

FREQUENCY (MHz)	Class B (dBuV)		Standard
	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 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

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

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

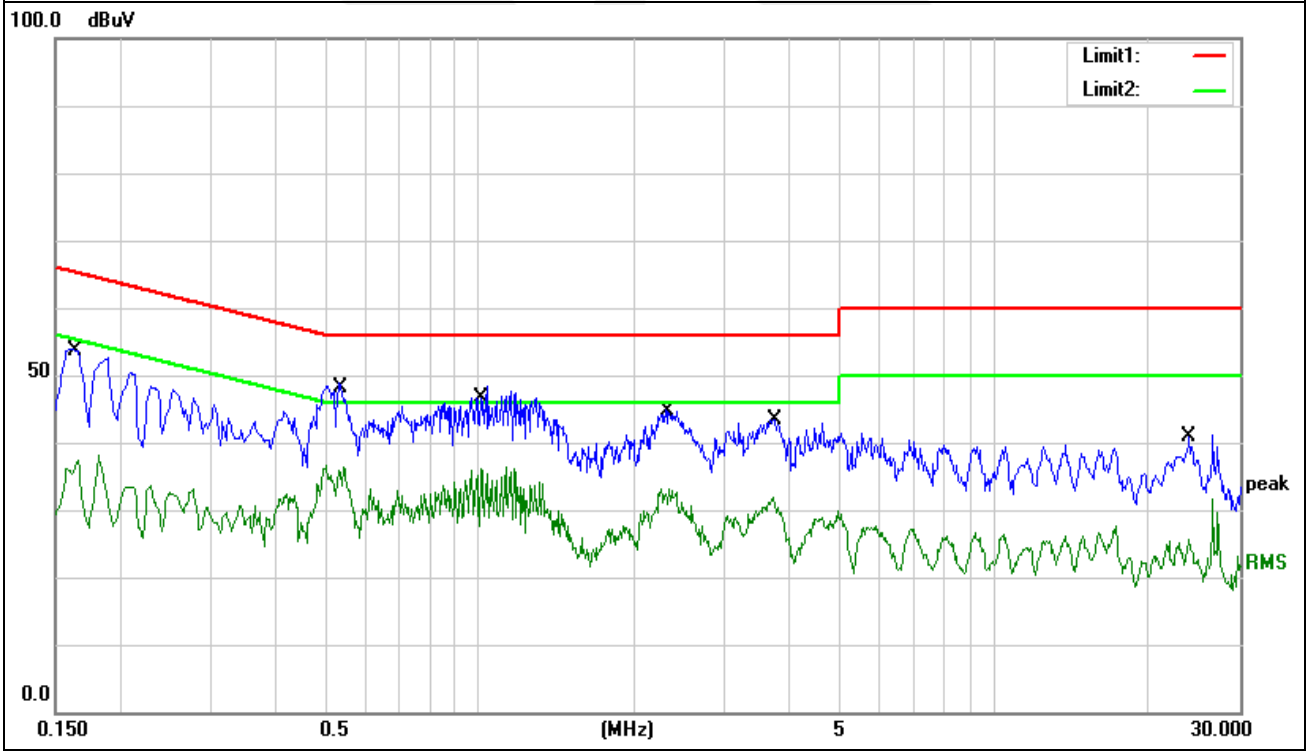
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.1.2 TEST RESULTS

EUT：	Revel Pro	Model Name. ：	X510A
Temperature：	23 ℃	Relative Humidity：	50%
Pressure：	1010hPa	Phase：	L
Test Voltage ：	DC 5V from Adapter AC 120V/60Hz	Test Mode：	Link Mode

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1580	47.09	10.24	57.33	65.57	-8.24	QP
2	0.1580	31.03	10.24	41.27	55.57	-14.30	AVG
3	0.2100	43.97	9.99	53.96	63.21	-9.25	QP
4	0.2100	28.46	9.99	38.45	53.21	-14.76	AVG
5	0.5060	35.25	9.90	45.15	56.00	-10.85	QP
6	0.5060	21.92	9.90	31.82	46.00	-14.18	AVG
7	1.0300	32.60	9.90	42.50	56.00	-13.50	QP
8	1.0300	20.15	9.90	30.05	46.00	-15.95	AVG
9	2.3460	31.90	10.00	41.90	56.00	-14.10	QP
10	2.3460	19.85	10.00	29.85	46.00	-16.15	AVG
11	17.1100	25.53	10.51	36.04	60.00	-23.96	QP
12	17.1100	13.18	10.51	23.69	50.00	-26.31	AVG

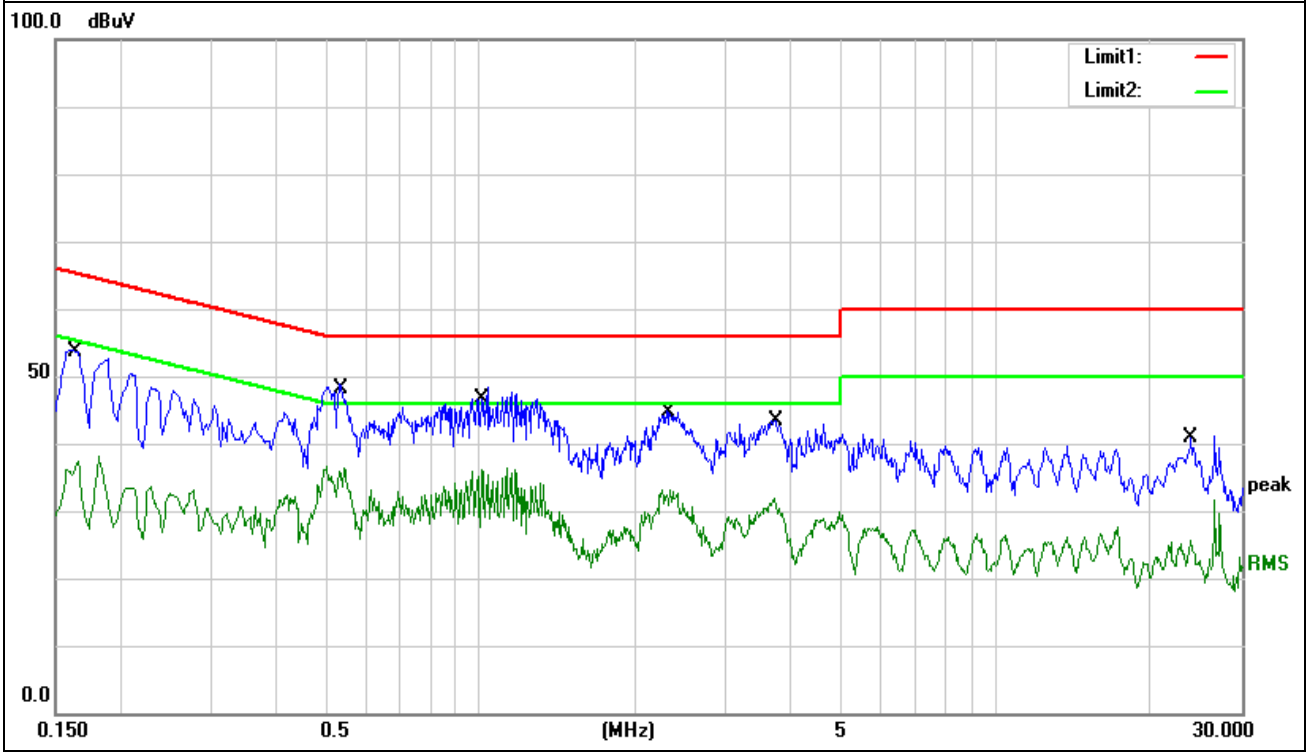
Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



EUT：	Revel Pro	Model Name. ：	X510A
Temperature：	23 ℃	Relative Humidity：	50%
Pressure：	1010hPa	Phase：	N
Test Voltage ：	DC 5V from Adapter AC 120V/60Hz	Test Mode：	Link Mode

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1660	43.57	10.00	53.57	65.16	-11.59	QP
2	0.1660	27.44	10.00	37.44	55.16	-17.72	AVG
3	0.5460	36.27	9.92	46.19	56.00	-9.81	QP
4	0.5460	26.41	9.92	36.33	46.00	-9.67	AVG
5	1.0100	36.57	10.00	46.57	56.00	-9.43	QP
6	1.0100	26.25	10.00	36.25	46.00	-9.75	AVG
7	2.3420	34.28	10.00	44.28	56.00	-11.72	QP
8	2.3420	23.12	10.00	33.12	46.00	-12.88	AVG
9	3.7300	33.06	10.19	43.25	56.00	-12.75	QP
10	3.7300	21.65	10.19	31.84	46.00	-14.16	AVG
11	23.9220	30.12	10.68	40.80	60.00	-19.20	QP
12	23.9220	14.99	10.68	25.67	50.00	-24.33	AVG

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



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS

6 dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on Part 15.247&205(a), then the Part 15.247&209(a) limit in the table below has to be followed.

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
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class B (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).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

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

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

3.2.2 TEST PROCEDURE

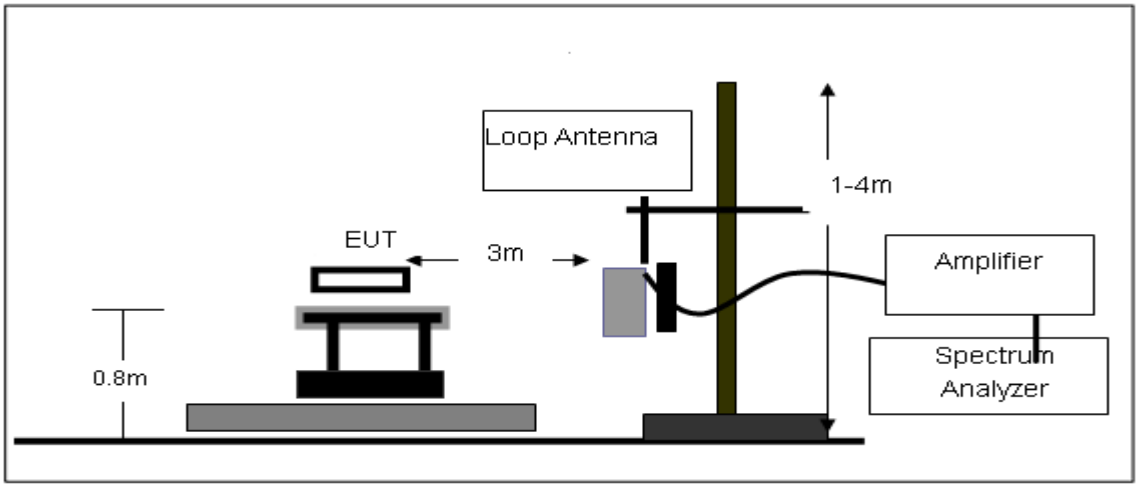
a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 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; 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:

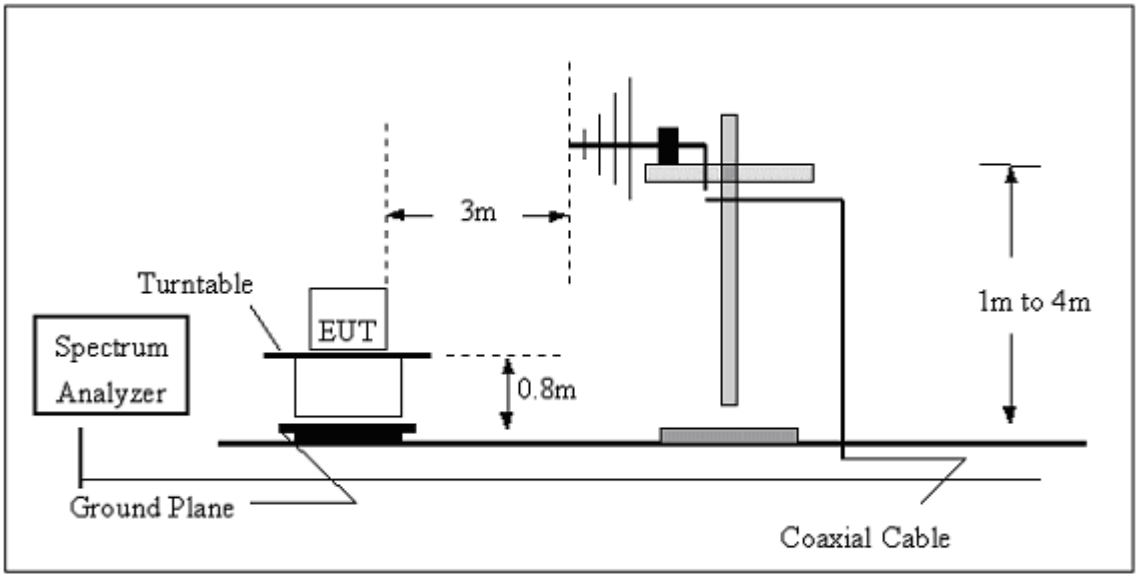
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 TEST SETUP

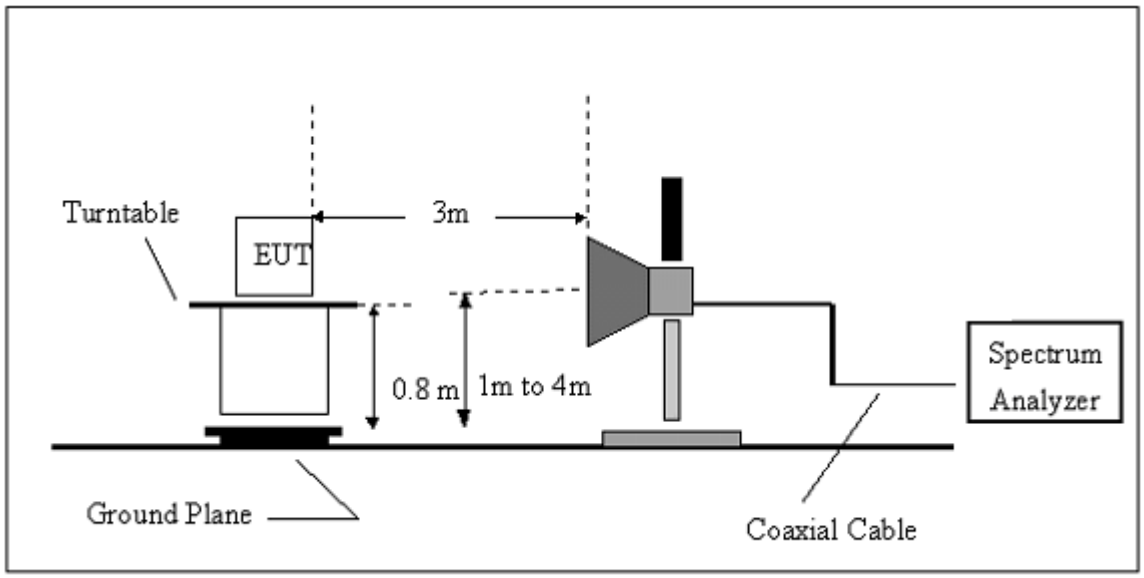
（A）Radiated Emission Test-Up Frequency Below 30MHz



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



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



3.2.4 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.

3.2.5 TEST RESULT

9KHz-30MHz

EUT：	Revel Pro	Model Name. ：	X510A
Temperature：	20 ℃	Relative Humidtity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	Link mode	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 =40 log (specific distance/test distance)(dB);

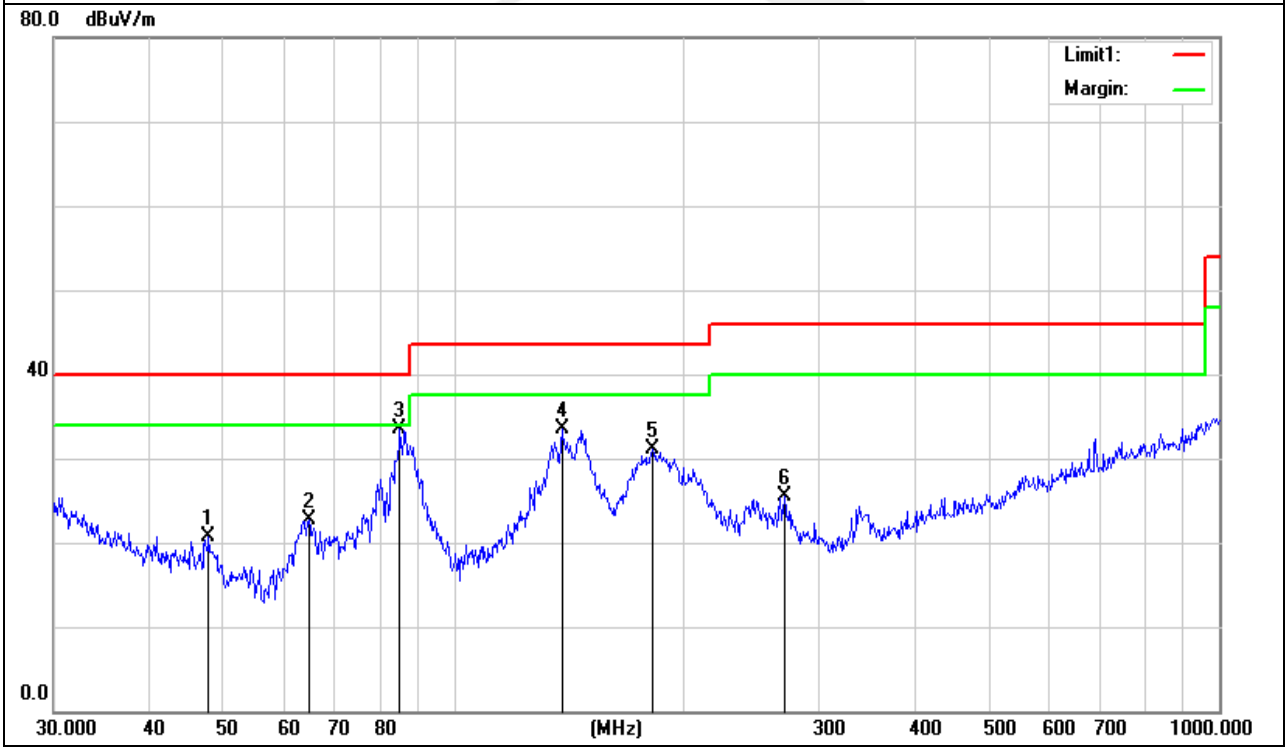
Limit line = specific limits(dBuv) + distance extrapolation factor.

30MHz - 1000MHz

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	Link mode	Polarization：	Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	47.8260	11.20	9.55	20.75	40.00	-19.25	QP
2	64.6594	16.96	5.82	22.78	40.00	-17.22	QP
3	84.9995	24.63	8.95	33.58	40.00	-6.42	QP
4	138.3873	20.56	12.87	33.43	43.50	-10.07	QP
5	181.9201	20.70	10.36	31.06	43.50	-12.44	QP
6	270.3747	10.75	14.81	25.56	46.00	-20.44	QP

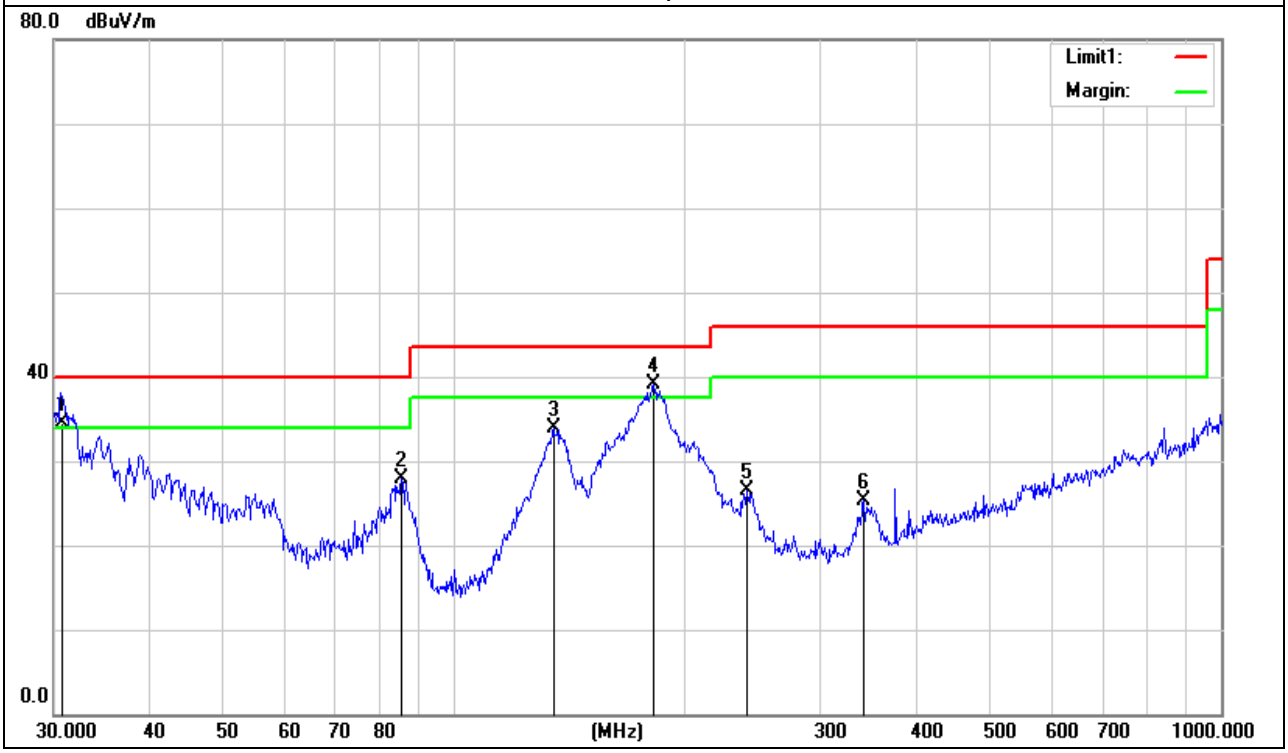
Remark:
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	Link mode	Polarization：	Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.8154	15.98	18.53	34.51	40.00	-5.49	QP
2	85.2980	18.84	9.02	27.86	40.00	-12.14	QP
3	134.5592	21.03	12.82	33.85	43.50	-9.65	QP
4	181.9202	28.65	10.36	39.01	43.50	-4.49	QP
5	240.8303	14.10	12.33	26.43	46.00	-19.57	QP
6	341.9786	8.31	16.95	25.26	46.00	-20.74	QP

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



Above 1000MHz

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH1 (802.11b Mode)/2412	Polarization：	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4824.053	46.42	10.44	56.86	74	-17.14	peak
4824.053	31.96	10.44	42.4	54	-11.6	AVG
7236.106	43.79	12.39	56.18	74	-17.82	peak
7236.106	33.91	12.39	46.3	54	-7.7	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH1 (802.11b Mode)/2412	Polarization：	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4824.124	49.47	10.39	59.86	74	-14.14	peak
4824.136	33.54	10.39	43.93	54	-10.07	AVG
7236.076	48.95	12.68	61.63	74	-12.37	peak
7236.071	30.92	12.68	43.6	54	-10.4	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH6 (802.11b Mode)/2437	Polarization：	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4874.086	49.45	10.39	59.84	74	-14.16	peak
4874.071	33.42	10.39	43.81	54	-10.19	AVG
7311.112	48.28	12.68	60.96	74	-13.04	peak
7311.120	30.89	12.68	43.57	54	-10.43	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH6 (802.11b Mode)/2437	Polarization：	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4874.125	49.56	10.39	59.95	74	-14.05	peak
4874.113	33.41	10.39	43.8	54	-10.2	AVG
7311.090	48.25	12.68	60.93	74	-13.07	peak
7311.149	30.86	12.68	43.54	54	-10.46	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH11 (802.11b Mode)/2462	Polarization：	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.070	49.53	10.39	59.92	74	-14.08	peak
4924.057	33.42	10.39	43.81	54	-10.19	AVG
7386.068	48.25	12.68	60.93	74	-13.07	peak
7386.071	30.87	12.68	43.55	54	-10.45	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH11 (802.11b Mode)/2462	Polarization：	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.055	49.35	10.39	59.74	74	-14.26	peak
4924.089	33.37	10.39	43.76	54	-10.24	AVG
7386.134	48.28	12.68	60.96	74	-13.04	peak
7386.106	30.89	12.68	43.57	54	-10.43	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH1 (802.11g Mode)/2412	Polarization：	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4824.122	46.36	10.44	56.8	74	-17.2	peak
4824.106	36.84	10.44	47.28	54	-6.72	AVG
7236.089	42.82	12.39	55.21	74	-18.79	peak
7236.092	28.73	12.39	41.12	54	-12.88	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH1 (802.11g Mode)/2412	Polarization：	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4824.072	46.47	10.44	56.91	74	-17.09	peak
4824.059	36.21	10.44	46.65	54	-7.35	AVG
7236.023	42.32	12.39	54.71	74	-19.29	peak
7236.045	28.35	12.39	40.74	54	-13.26	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH6 (802.11g Mode)/2437	Polarization：	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4874.086	45.35	10.4	55.75	74	-18.25	peak
4874.136	26.42	10.4	36.82	54	-17.18	AVG
7311.161	44.63	12.75	57.38	74	-16.62	peak
7311.134	25.63	12.75	38.38	54	-15.62	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH6 (802.11g Mode)/2437	Polarization：	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4874.153	48.32	10.4	58.72	74	-15.28	peak
4874.096	35.46	10.4	45.86	54	-8.14	AVG
7311.071	48.47	12.75	61.22	74	-12.78	peak
7311.053	33.53	12.75	46.28	54	-7.72	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH11 (802.11g Mode)/2462	Polarization：	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.115	49.36	10.39	59.75	74	-14.25	peak
4924.115	33.53	10.39	43.92	54	-10.08	AVG
7386.097	48.74	12.68	61.42	74	-12.58	peak
7386.110	30.85	12.68	43.53	54	-10.47	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH11(802.11g Mode)/2462	Polarization：	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.145	46.53	10.39	56.92	74	-17.08	peak
4924.138	34.57	10.39	44.96	54	-9.04	AVG
7386.082	46.92	12.68	59.6	74	-14.4	peak
7386.047	33.68	12.68	46.36	54	-7.64	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH1(802.11n Mode)/20MHz	Polarization：	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4824.132	46.53	10.44	56.97	74	-17.03	peak
4824.093	36.66	10.44	47.1	54	-6.9	AVG
7236.042	42.42	12.39	54.81	74	-19.19	peak
7236.083	28.84	12.39	41.23	54	-12.77	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH1(802.11n Mode)/20MHz	Polarization：	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4824.137	46.46	10.44	56.9	74	-17.1	peak
4824.069	37.74	10.44	48.18	54	-5.82	AVG
7236.092	51.46	12.39	63.85	74	-10.15	peak
7236.112	31.75	12.39	44.14	54	-9.86	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH6(802.11n Mode)/20MHz	Polarization：	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4874.068	51.54	10.4	61.94	74	-12.06	peak
4874.134	32.24	10.4	42.64	54	-11.36	AVG
7311.038	48.37	12.75	61.12	74	-12.88	peak
7311.088	27.07	12.75	39.82	54	-14.18	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH6(802.11n Mode)/20MHz	Polarization：	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4874.093	48.57	10.4	58.97	74	-15.03	peak
4874.143	32.85	10.4	43.25	54	-10.75	AVG
7311.161	47.68	12.75	60.43	74	-13.57	peak
7311.122	26.84	12.75	39.59	54	-14.41	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH11(802.11n Mode)/20MHz	Polarization：	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.048	50.56	10.39	60.95	74	-13.05	peak
4924.055	35.35	10.39	45.74	54	-8.26	AVG
7386.096	43.59	12.68	56.27	74	-17.73	peak
7386.112	31.64	12.68	44.32	54	-9.68	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH11(802.11n Mode)/20MHz	Polarization：	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.149	51.46	10.39	61.85	74	-12.15	peak
4924.148	35.64	10.39	46.03	54	-7.97	AVG
7386.126	42.84	12.68	55.52	74	-18.48	peak
7386.073	28.53	12.68	41.21	54	-12.79	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH3(802.11n Mode)/40MHz	Polarization：	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4844.106	47.57	10.5	58.07	74	-15.93	peak
4844.121	31.95	10.5	42.45	54	-11.55	AVG
7266.228	48.53	12.5	61.03	74	-12.97	peak
7266.232	31.53	12.5	44.03	54	-9.97	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH3(802.11n Mode)/40MHz	Polarization：	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4844.283	47.43	10.5	57.93	74	-16.07	peak
4844.287	30.87	10.5	41.37	54	-12.63	AVG
7266.220	48.84	12.5	61.34	74	-12.66	peak
7266.204	29.76	12.5	42.26	54	-11.74	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH6(802.11n Mode)/40MHz	Polarization：	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4874.215	48.57	10.4	58.97	74	-15.03	peak
4874.213	33.35	10.4	43.75	54	-10.25	AVG
7311.073	47.39	12.75	60.14	74	-13.86	peak
7311.128	32.62	12.75	45.37	54	-8.63	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH6(802.11n Mode)/40MHz	Polarization：	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4874.458	47.47	10.4	57.87	74	-16.13	peak
4874.443	34.95	10.4	45.35	54	-8.65	AVG
7311.577	46.69	12.75	59.44	74	-14.56	peak
7311.588	35.93	12.75	48.68	54	-5.32	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH9(802.11n Mode)/40MHz	Polarization：	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4904.268	49.57	10.29	59.86	74	-14.14	peak
4904.288	35.45	10.29	45.74	54	-8.26	AVG
7356.149	48.32	12.79	61.11	74	-12.89	peak
7356.148	31.52	12.79	44.31	54	-9.69	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH9(802.11n Mode)/40MHz	Polarization：	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4904.127	50.32	10.29	60.61	74	-13.39	peak
4904.145	34.53	10.29	44.82	54	-9.18	AVG
7356.380	48.57	12.79	61.36	74	-12.64	peak
7356.366	32.23	12.79	45.02	54	-8.98	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

3.2.6 TEST RESULTS (BAND EDGE)

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH1(802.11b Mode)	Polarization：	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2399.900	80.24	-13	67.24	74	-6.76	peak
2399.900	61.48	-13	48.48	54	-5.54	AVG
2400.000	82.35	-12.99	69.36	74	-4.41	peak
2400.000	61.21	-12.99	48.22	54	-5.74	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH1(802.11b Mode)	Polarization：	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2399.900	81.42	-13	68.42	74	-5.58	peak
2399.900	61.26	-13	48.26	54	-5.74	AVG
2400.000	78.48	-12.99	65.49	74	-8.51	peak
2400.000	59.42	-12.99	46.43	54	-7.57	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH11(802.11b Mode)	Polarization：	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2483.500	78.52	-12.78	65.74	74	-8.26	peak
2483.500	60.36	-12.78	47.58	54	-6.42	AVG
2483.600	79.55	-12.77	66.78	74	-7.22	peak
2483.600	60.58	-12.78	47.8	54	-6.2	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH11(802.11b Mode)	Polarization：	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2483.500	77.57	-12.78	64.79	74	-9.21	peak
2483.500	60.39	-12.78	47.61	54	-6.39	AVG
2483.600	78.52	-12.77	65.75	74	-8.25	peak
2483.600	59.43	-12.77	46.66	54	-7.34	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH1(802.11g Mode)	Polarization：	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2399.900	76.26	-13	63.26	74	-10.74	peak
2399.900	59.48	-13	46.48	54	-7.52	AVG
2400.000	78.13	-12.99	65.14	74	-8.86	peak
2400.000	58.42	-12.99	45.43	54	-8.57	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH1(802.11gMode)	Polarization：	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2399.900	77.27	-13	64.27	74	-9.73	peak
2399.900	60.29	-13	47.29	54	-6.71	AVG
2400.000	78.93	-12.99	65.94	74	-8.06	peak
2400.000	62.25	-12.99	49.26	54	-4.74	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH11(802.11g Mode)	Polarization：	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2483.500	77.23	-12.78	64.45	74	-9.55	peak
2483.500	63.95	-12.78	51.17	54	-2.83	AVG
2483.600	76.41	-12.77	63.64	74	-10.36	peak
2483.600	61.68	-12.77	48.91	54	-5.09	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH11(802.11g Mode)	Polarization：	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2483.500	76.57	-12.78	63.79	74	-10.21	peak
2483.500	60.48	-12.78	47.7	54	-6.3	AVG
2483.600	75.99	-12.77	63.22	74	-10.78	peak
2483.600	61.36	-12.77	48.59	54	-5.41	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH1(802.11n Mode)/20MHz	Polarization：	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2399.900	76.42	-13	63.42	74	-10.58	peak
2399.900	58.27	-13	45.27	54	-8.73	AVG
2400.000	78.29	-12.99	65.3	74	-8.7	peak
2400.000	58.57	-12.99	45.58	54	-8.42	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH1(802.11n Mode)/20M	Polarization：	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2399.900	77.36	-13	64.36	74	-9.64	peak
2399.900	58.39	-13	45.39	54	-8.61	AVG
2400.000	76.35	-12.99	63.36	74	-10.64	peak
2400.000	59.42	-12.99	46.43	54	-7.57	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH11(802.11n Mode)/20MHz	Polarization：	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2483.500	77.45	-12.78	64.67	74	-9.33	peak
2483.500	56.74	-12.78	43.96	54	-10.04	AVG
2483.600	75.39	-12.77	62.62	74	-11.38	peak
2483.600	57.33	-12.77	44.56	54	-9.44	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH11(802.11n Mode)/20MHz	Polarization：	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2483.500	73.14	-12.78	60.36	74	-13.64	peak
2483.500	59.55	-12.78	46.77	54	-7.23	AVG
2483.600	73.68	-12.78	60.9	74	-13.1	peak
2483.600	59.51	-12.78	46.73	54	-7.27	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH3(802.11n Mode)/40M	Polarization：	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2399.900	77.28	-13	64.28	74	-9.72	peak
2399.900	58.23	-13	45.23	54	-8.77	AVG
2400.000	77.37	-12.99	64.38	74	-9.62	peak
2400.000	59.55	-12.99	46.56	54	-7.44	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH3(802.11n Mode)/40MHz	Polarization：	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2399.900	80.65	-13	67.65	74	-6.35	peak
2399.900	55.56	-13	42.56	54	-11.44	AVG
2400.000	78.37	-12.99	65.38	74	-8.62	peak
2400.000	55.43	-12.99	42.44	54	-11.56	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH9(802.11n Mode)/40MHz	Polarization：	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2483.500	76.35	-12.78	63.57	74	-10.43	peak
2483.500	59.18	-12.78	46.4	54	-7.6	AVG
2483.600	77.27	-12.77	64.5	74	-9.5	peak
2483.600	61.19	-12.77	48.42	54	-5.58	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	CH9(802.11n Mode)/40MHz	Polarization：	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2483.500	77.35	-12.78	64.57	74	-9.43	peak
2483.500	60.48	-12.78	47.7	54	-6.3	AVG
2483.600	78.27	-12.78	65.49	74	-8.51	peak
2483.600	59.32	-12.78	46.54	54	-7.46	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

4. CONDUCTED SPURIOUS EMISSIONS

4.1 APPLIED PROCEDURES / LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

4.2 TEST PROCEDURE

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

.

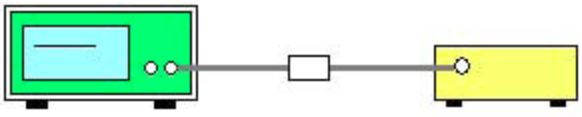
For Band edge

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	Lower Band Edge: 2300 to 2430 MHz Upper Band Edge: 2450 to 2500 MHz
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

4.3 DEVIATION FROM STANDARD

No deviation.

4.4 TEST SETUP



The EUT which is powered by the Battery, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

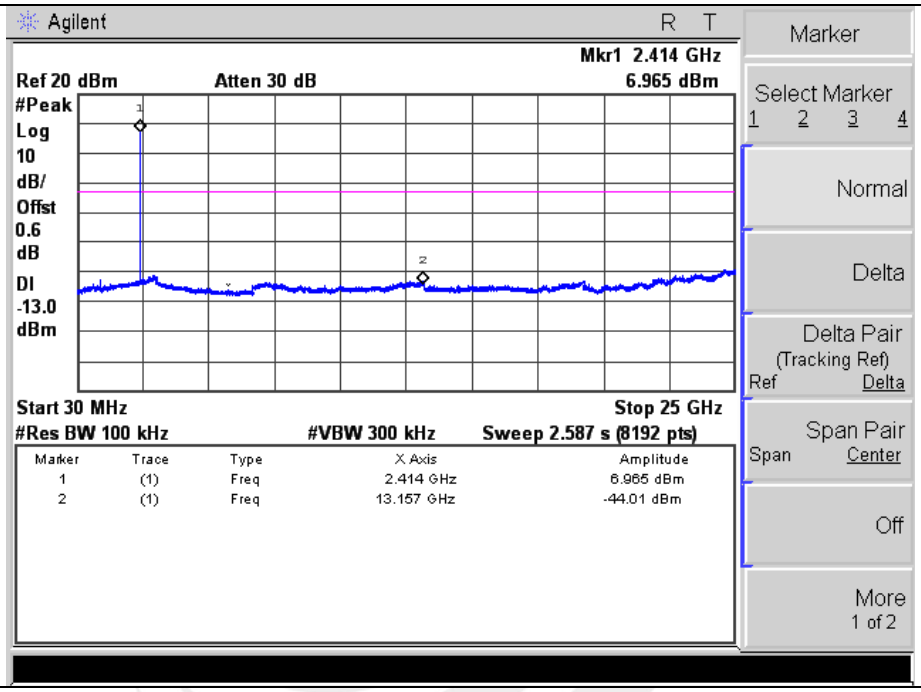
4.5 EUT OPERATION CONDITIONS

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.

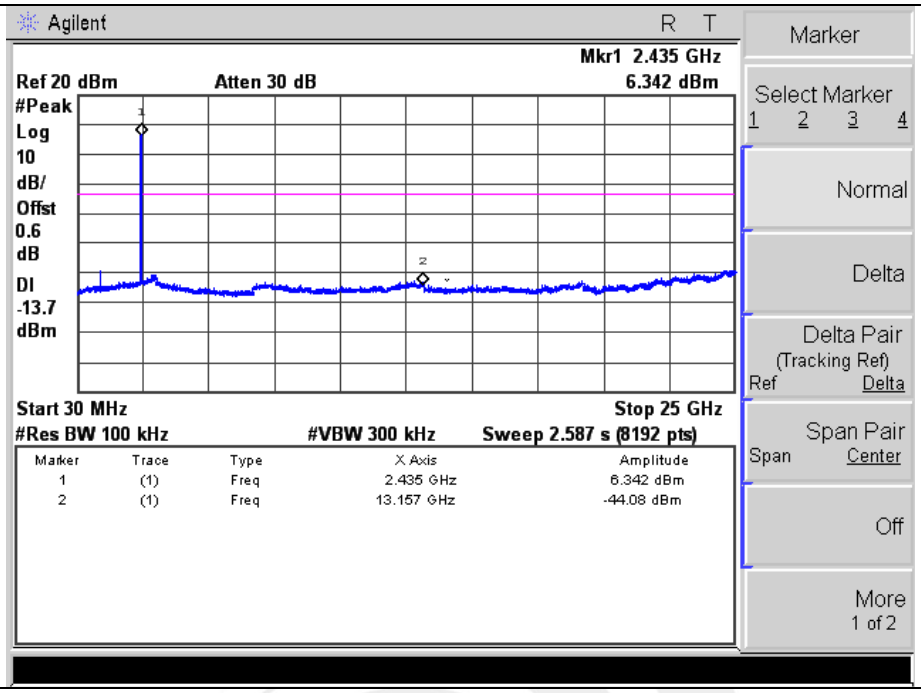
4.6 TEST RESULTS

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1015 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	TX b Mode /CH01, CH06, CH11		

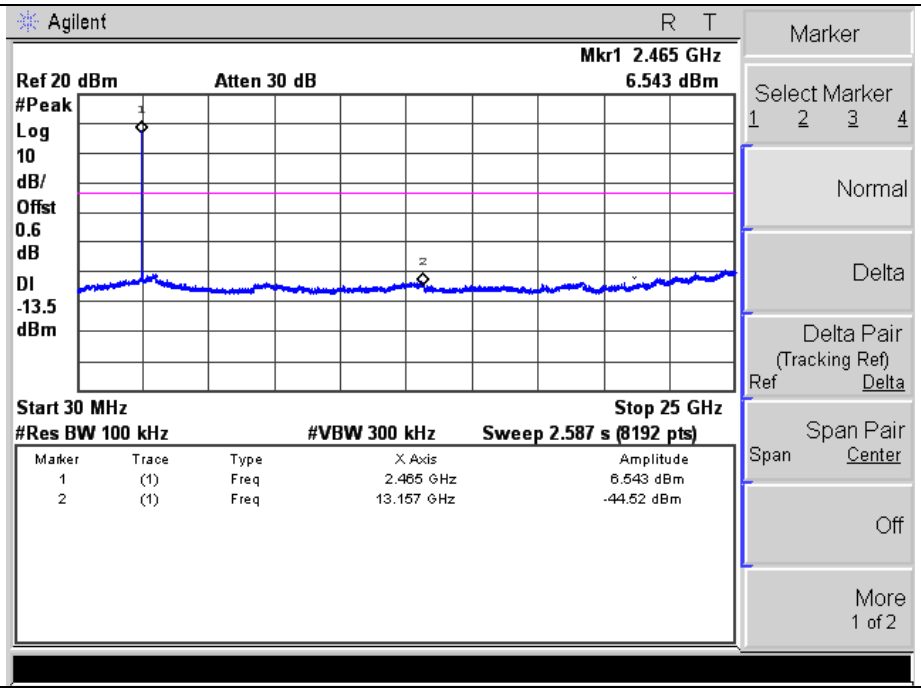
CH 01



CH 06

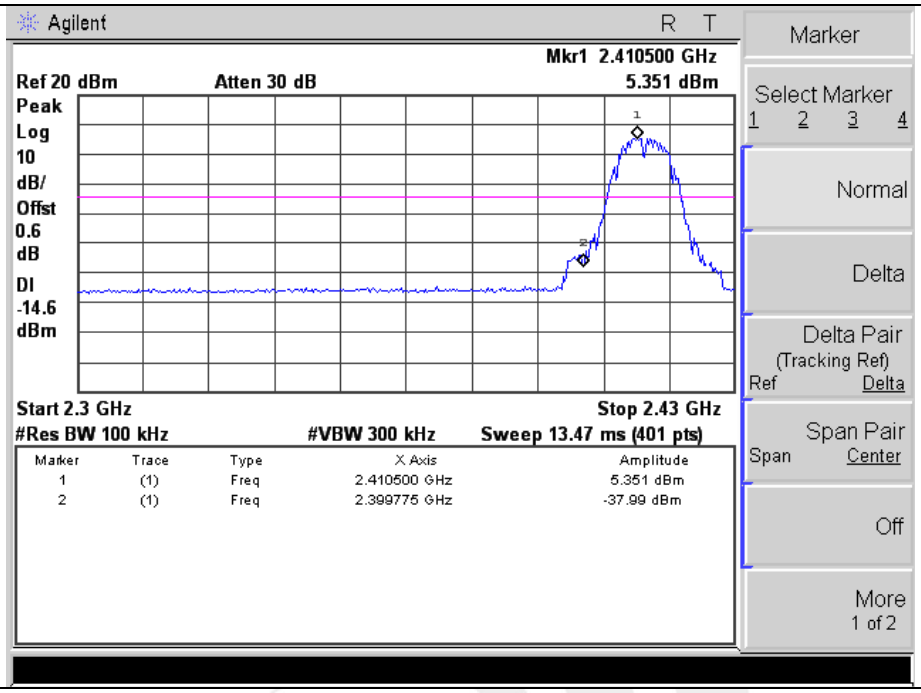

Agilent
R T
Mkr1 2.435 GHz
Ref 20 dBm
Atten 30 dB
6.342 dBm
#Peak
Log
10
dB/
Offst
0.6
dB
Dl
-13.7
dBm
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25 GHz
Sweep 2.587 s (8192 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.435 GHz 6.342 dBm
2 (1) Freq 13.157 GHz -44.08 dBm
Marker
Select Marker
1 2 3 4
Normal
Delta
Delta Pair
(Tracking Ref)
Ref Delta
Span Pair
Span Center
Off
More
1 of 2

CH 11

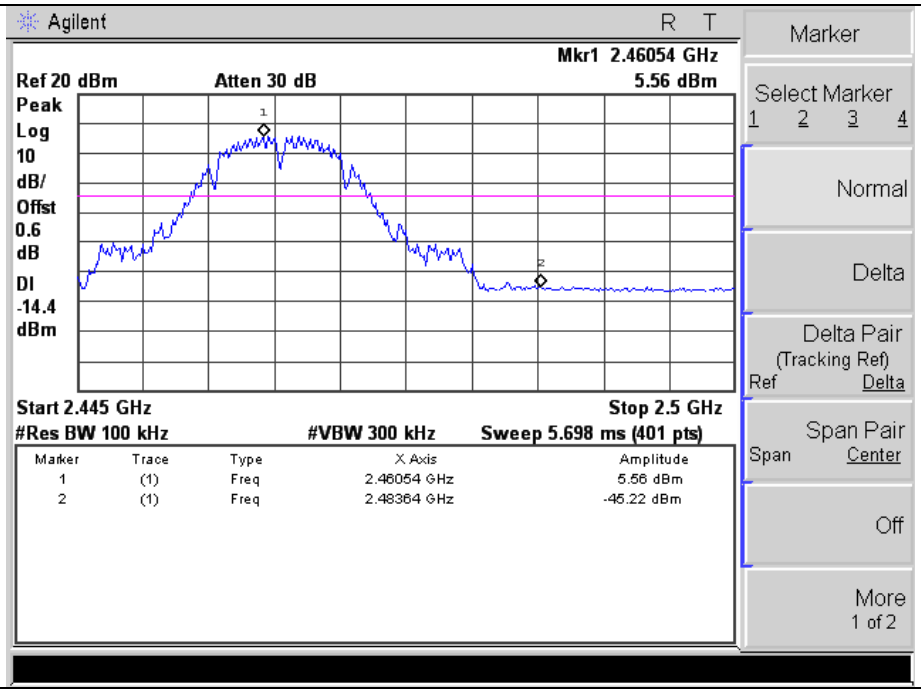

Agilent
R T
Mkr1 2.465 GHz
Ref 20 dBm
Atten 30 dB
6.543 dBm
#Peak
Log
10
dB/
Offst
0.6
dB
Dl
-13.5
dBm
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25 GHz
Sweep 2.587 s (8192 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.465 GHz 6.543 dBm
2 (1) Freq 13.157 GHz -44.52 dBm
Marker
Select Marker
1 2 3 4
Normal
Delta
Delta Pair
(Tracking Ref)
Ref Delta
Span Pair
Span Center
Off
More
1 of 2

Band edge

CH 01

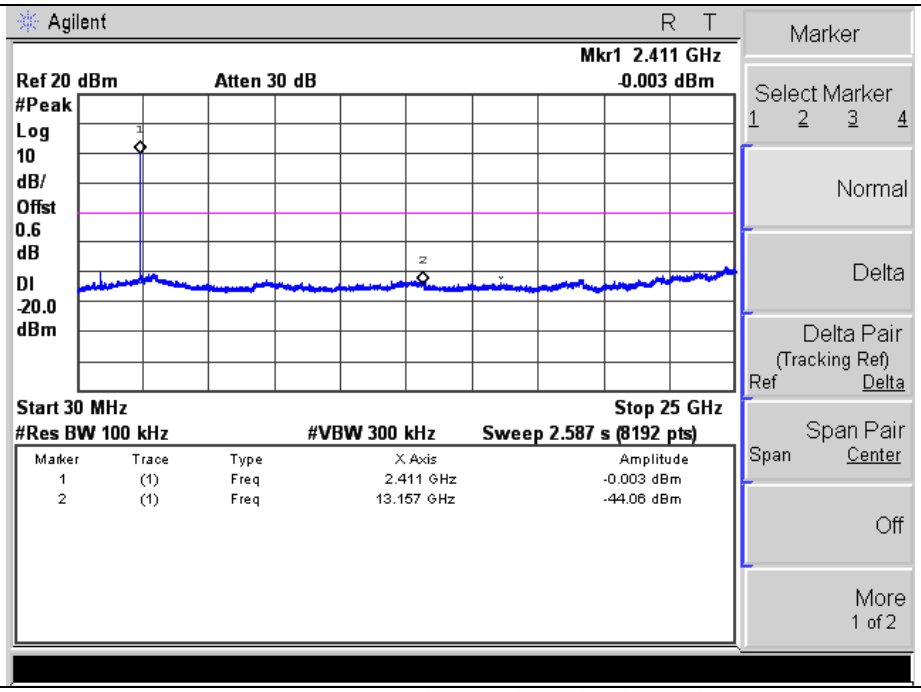


CH 11

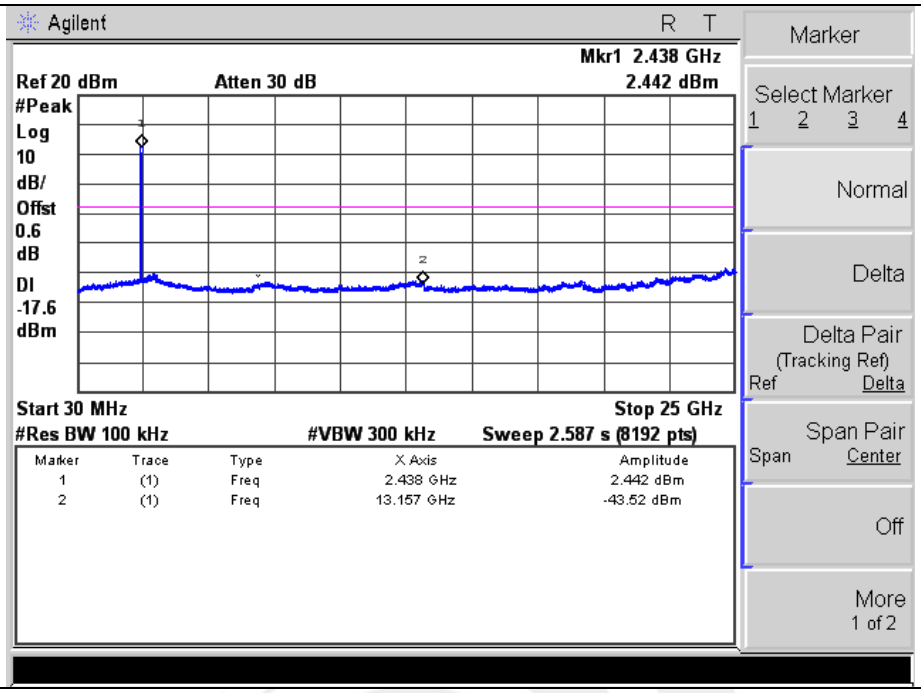


EUT：	Revel Pro	Model Name ：	X510A
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1015 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	TX g Mode /CH01, CH06, CH11		

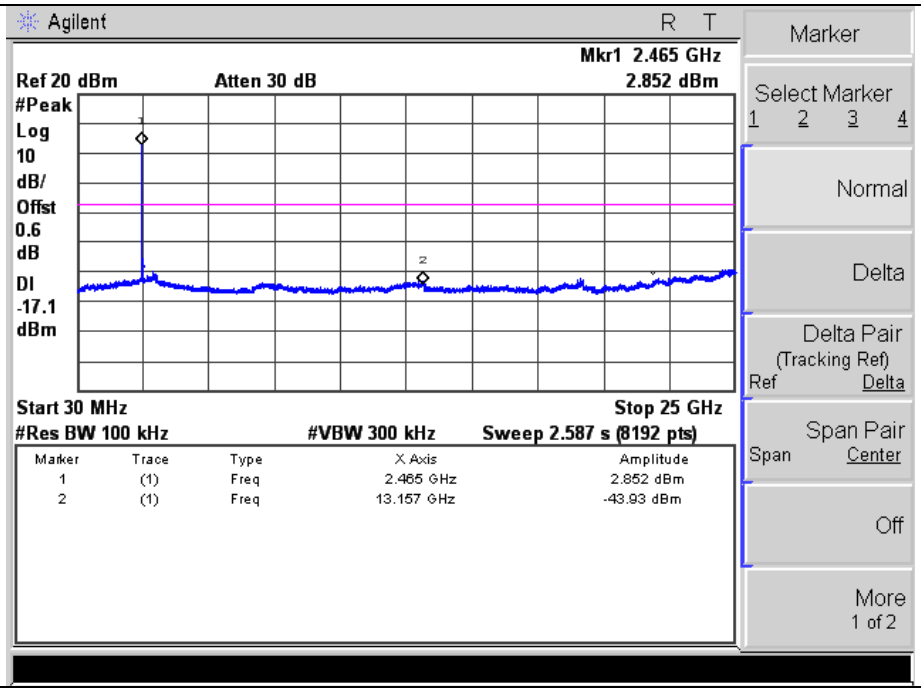
CH 01



CH 06

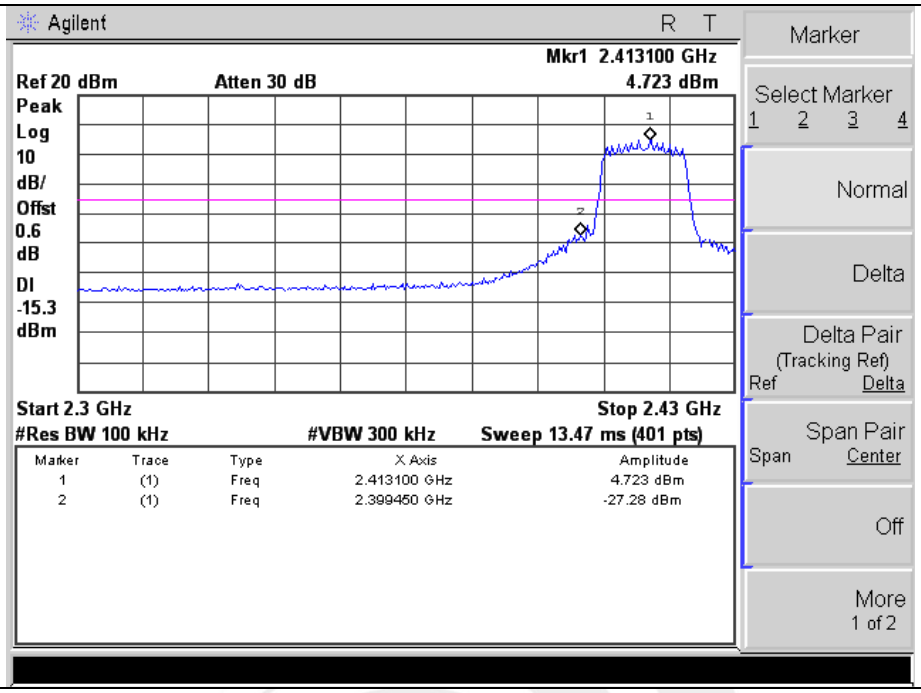

Agilent
R T
Mkr1 2.438 GHz
Ref 20 dBm
Atten 30 dB
2.442 dBm
#Peak
Log
10
dB/
Offst
0.6
dB
Dl
-17.6
dBm
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25 GHz
Sweep 2.587 s (8192 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.438 GHz 2.442 dBm
2 (1) Freq 13.157 GHz -43.52 dBm
Marker
Select Marker
1 2 3 4
Normal
Delta
Delta Pair
(Tracking Ref)
Ref Delta
Span Pair
Span Center
Off
More
1 of 2

CH 11

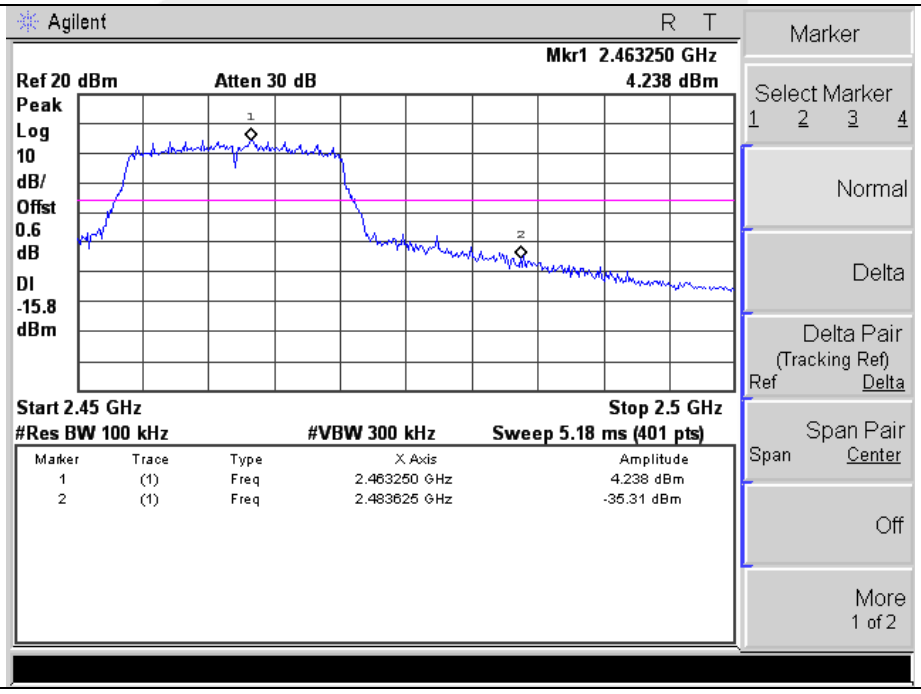

Agilent
R T
Mkr1 2.465 GHz
Ref 20 dBm
Atten 30 dB
2.852 dBm
#Peak
Log
10
dB/
Offst
0.6
dB
Dl
-17.1
dBm
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25 GHz
Sweep 2.587 s (8192 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.465 GHz 2.852 dBm
2 (1) Freq 13.157 GHz -43.93 dBm
Marker
Select Marker
1 2 3 4
Normal
Delta
Delta Pair
(Tracking Ref)
Ref Delta
Span Pair
Span Center
Off
More
1 of 2

Band edge

CH 01

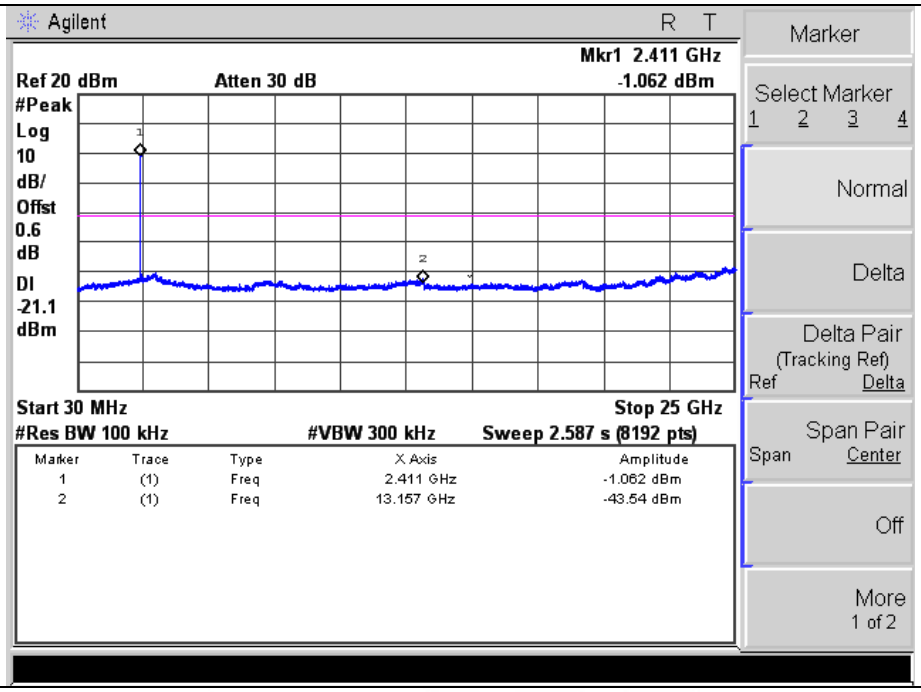


CH11

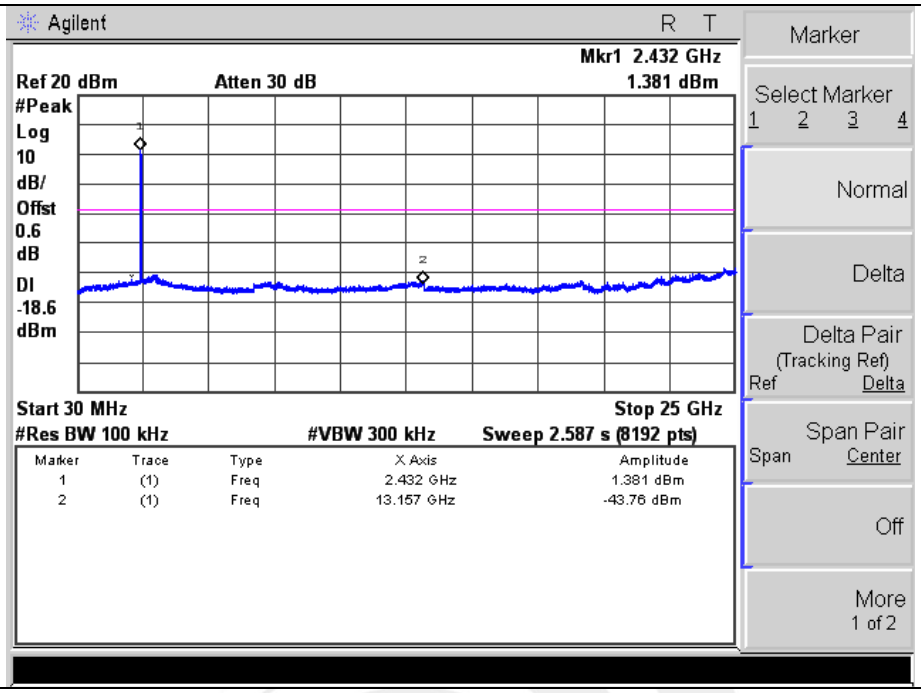


EUT：	Revel Pro	Model Name ：	X510A
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1015 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	TX n Mode(20M) /CH01, CH06, CH11		

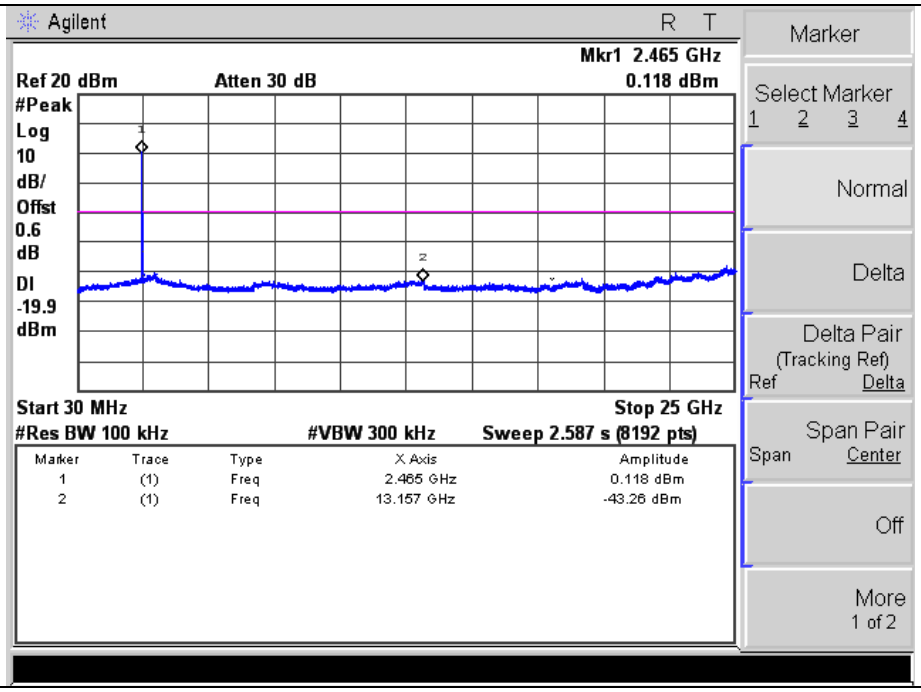
CH 01



CH 06

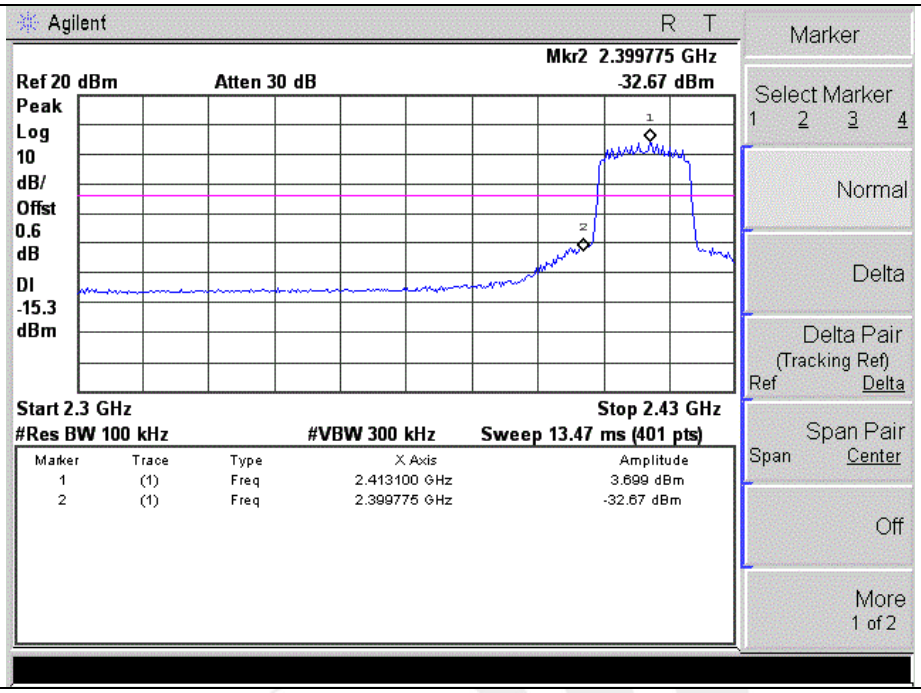

Agilent
R T
Mkr1 2.432 GHz
Ref 20 dBm
Atten 30 dB
1.381 dBm
#Peak
Log
10
dB/
Offst
0.6
dB
Dl
-18.6
dBm
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25 GHz
Sweep 2.587 s (8192 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.432 GHz 1.381 dBm
2 (1) Freq 13.157 GHz -43.76 dBm
Marker
Select Marker
1 2 3 4
Normal
Delta
Delta Pair
(Tracking Ref)
Ref Delta
Span Pair
Span Center
Off
More
1 of 2

CH 11

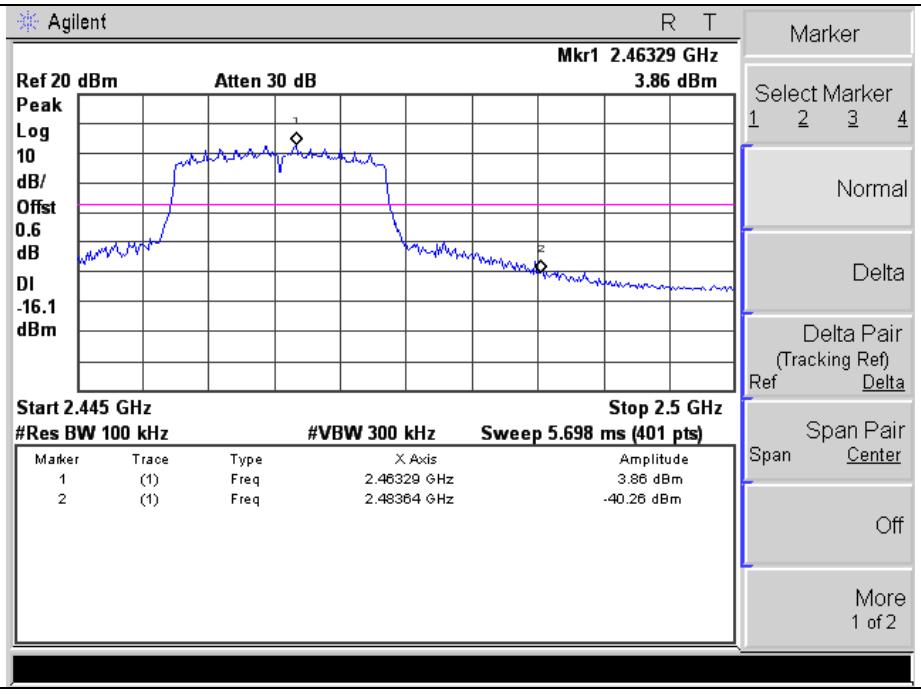

Agilent
R T
Mkr1 2.465 GHz
Ref 20 dBm
Atten 30 dB
0.118 dBm
#Peak
Log
10
dB/
Offst
0.6
dB
Dl
-19.9
dBm
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25 GHz
Sweep 2.587 s (8192 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.465 GHz 0.118 dBm
2 (1) Freq 13.157 GHz -43.26 dBm
Marker
Select Marker
1 2 3 4
Normal
Delta
Delta Pair
(Tracking Ref)
Ref Delta
Span Pair
Span Center
Off
More
1 of 2

Band edge

CH 01

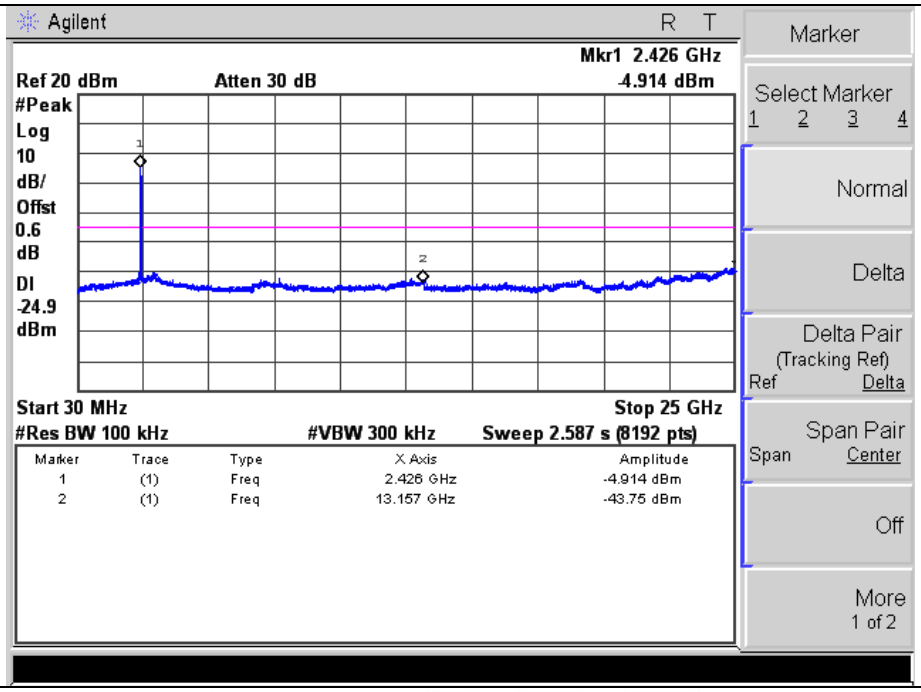


CH 11

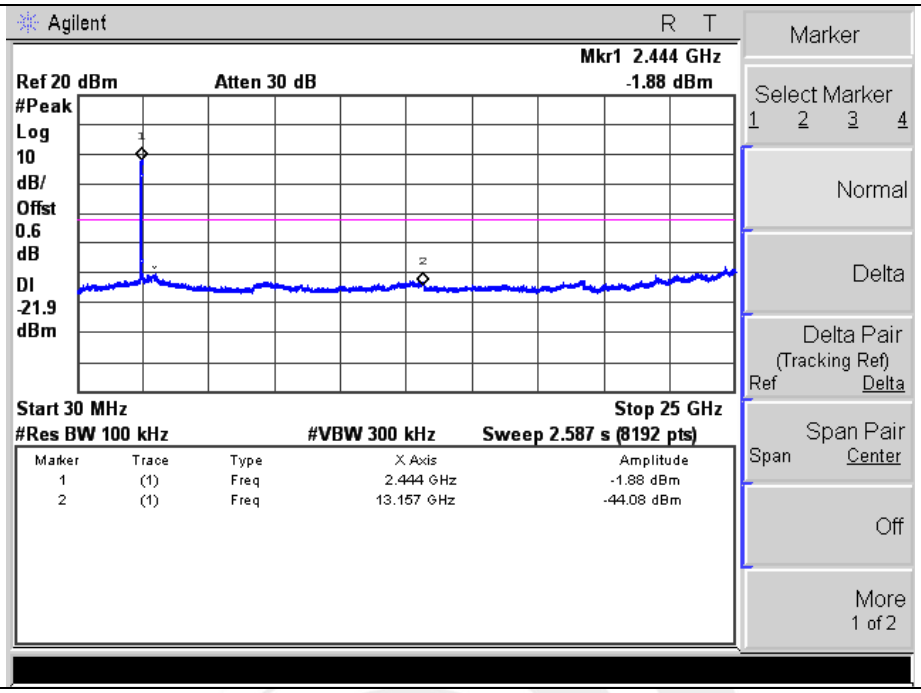


EUT：	Revel Pro	Model Name ：	X510A
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1015 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	TX n Mode(40M) /CH03, CH06, CH09		

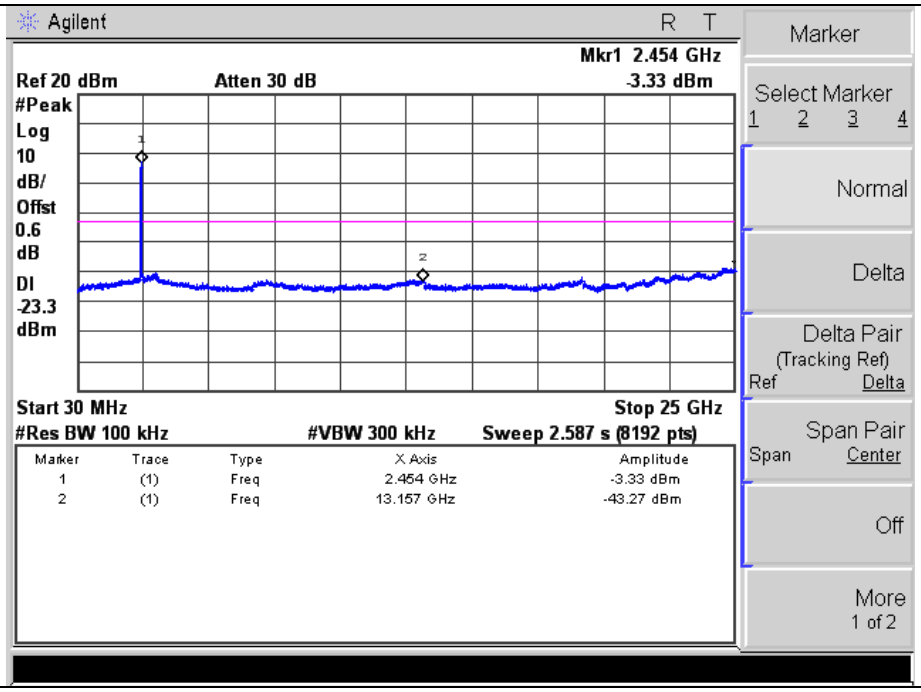
CH 03



CH06

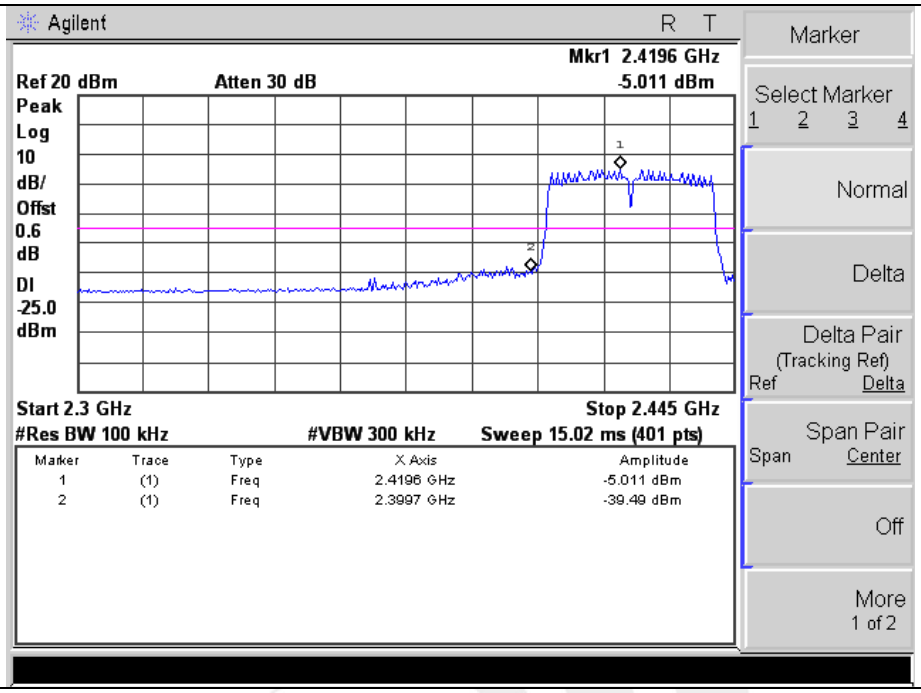

Agilent
R T
Mkr1 2.444 GHz
Ref 20 dBm
Atten 30 dB
-1.88 dBm
#Peak
Log
10
dB/
Offst
0.6
dB
Dl
-21.9
dBm
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25 GHz
Sweep 2.587 s (8192 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.444 GHz -1.88 dBm
2 (1) Freq 13.157 GHz -44.08 dBm
Marker
Select Marker
1 2 3 4
Normal
Delta
Delta Pair
(Tracking Ref)
Ref Delta
Span Pair
Span Center
Off
More
1 of 2

CH09

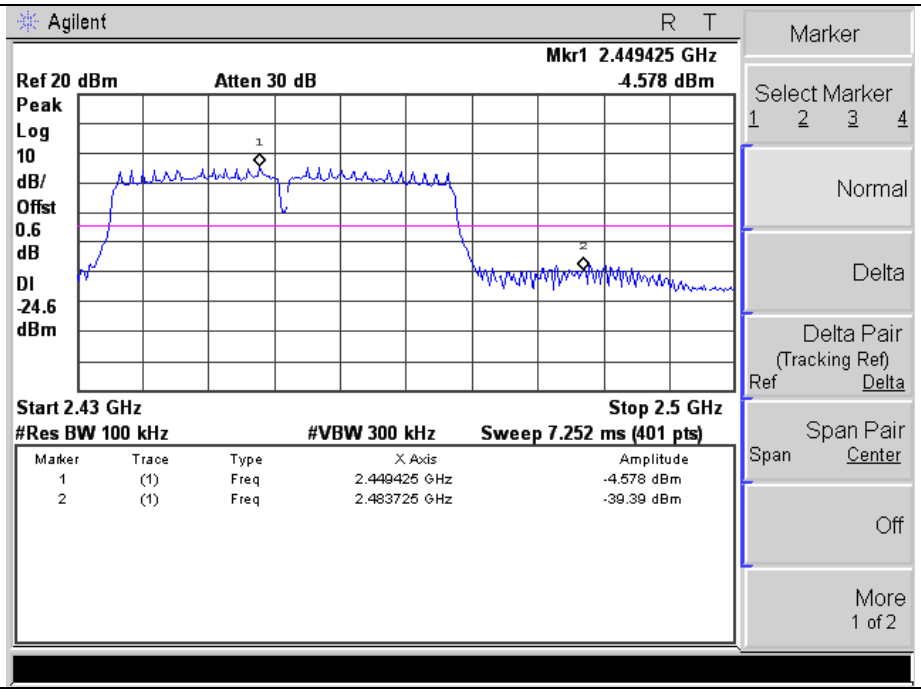

Agilent
R T
Mkr1 2.454 GHz
Ref 20 dBm
Atten 30 dB
-3.33 dBm
#Peak
Log
10
dB/
Offst
0.6
dB
Dl
-23.3
dBm
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25 GHz
Sweep 2.587 s (8192 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.454 GHz -3.33 dBm
2 (1) Freq 13.157 GHz -43.27 dBm
Marker
Select Marker
1 2 3 4
Normal
Delta
Delta Pair
(Tracking Ref)
Ref Delta
Span Pair
Span Center
Off
More
1 of 2

Band edge

CH03



CH 09



5. POWER SPECTRAL DENSITY TEST

5.1 APPLIED PROCEDURES / LIMIT

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

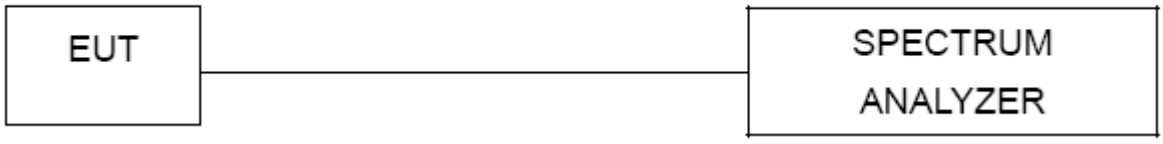
5.2 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW ≥ 3 kHz.
4. Set the VBW ≥ 3 x 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.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

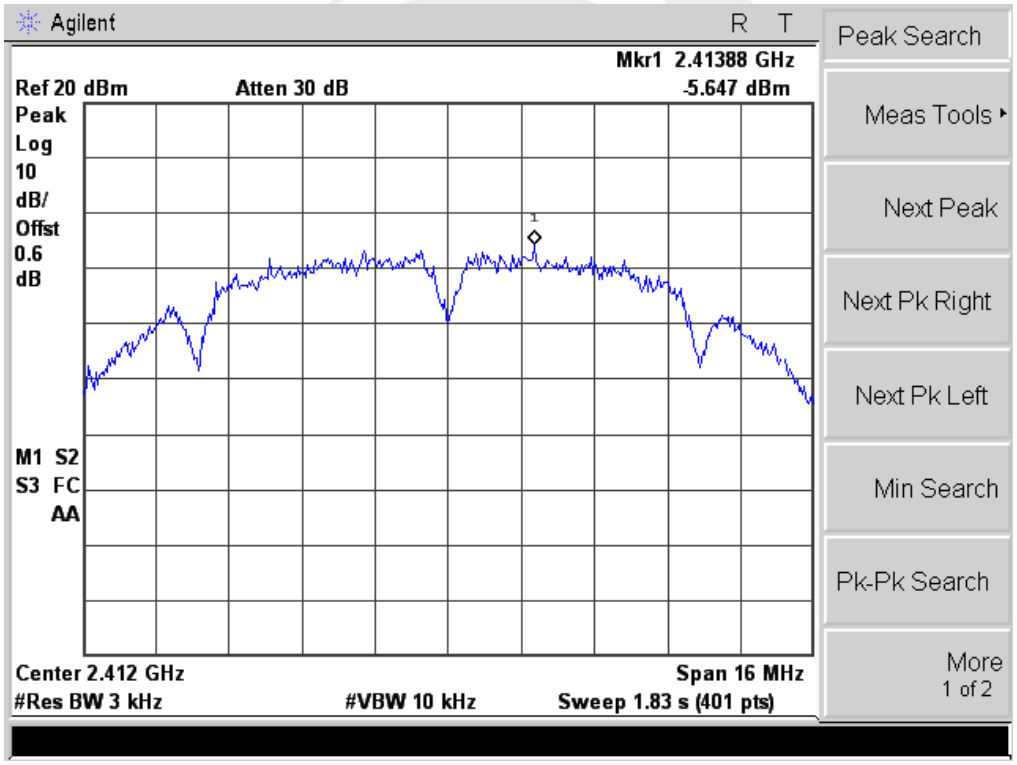
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

5.6 TEST RESULTS

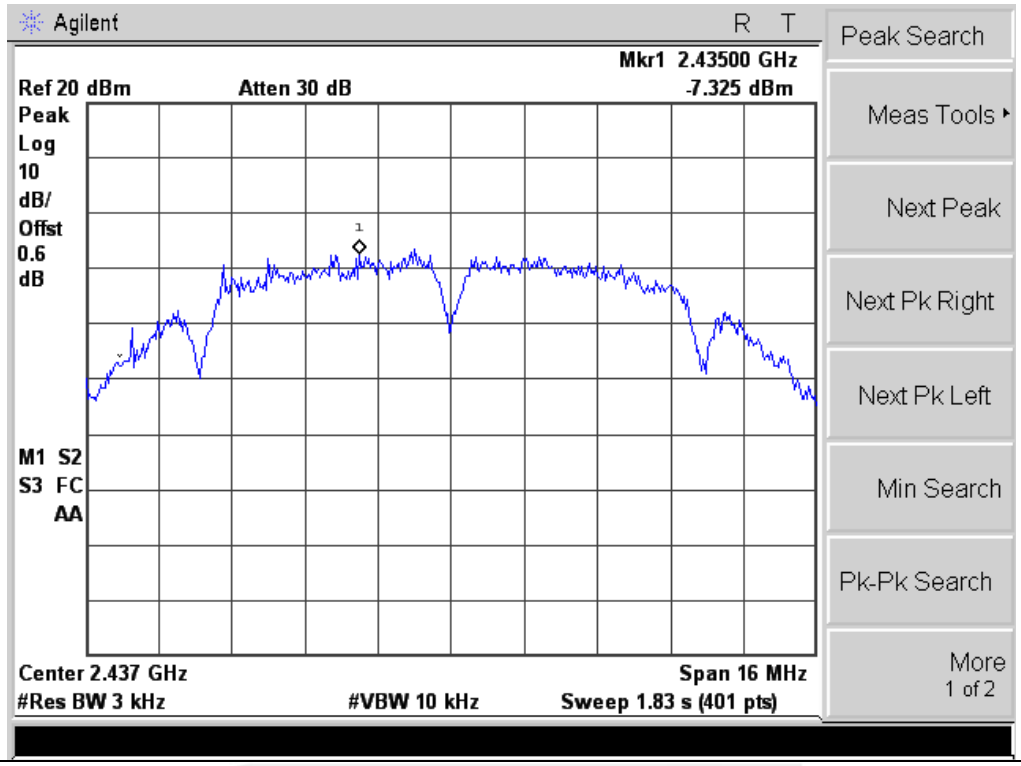
EUT：	Revel Pro	Model Name ：	X510A
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1015 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	TX b Mode /CH01, CH06, CH11		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-5.647	8	**PASS**
2437 MHz	-7.325	8	**PASS**
2462 MHz	-7.797	8	**PASS**

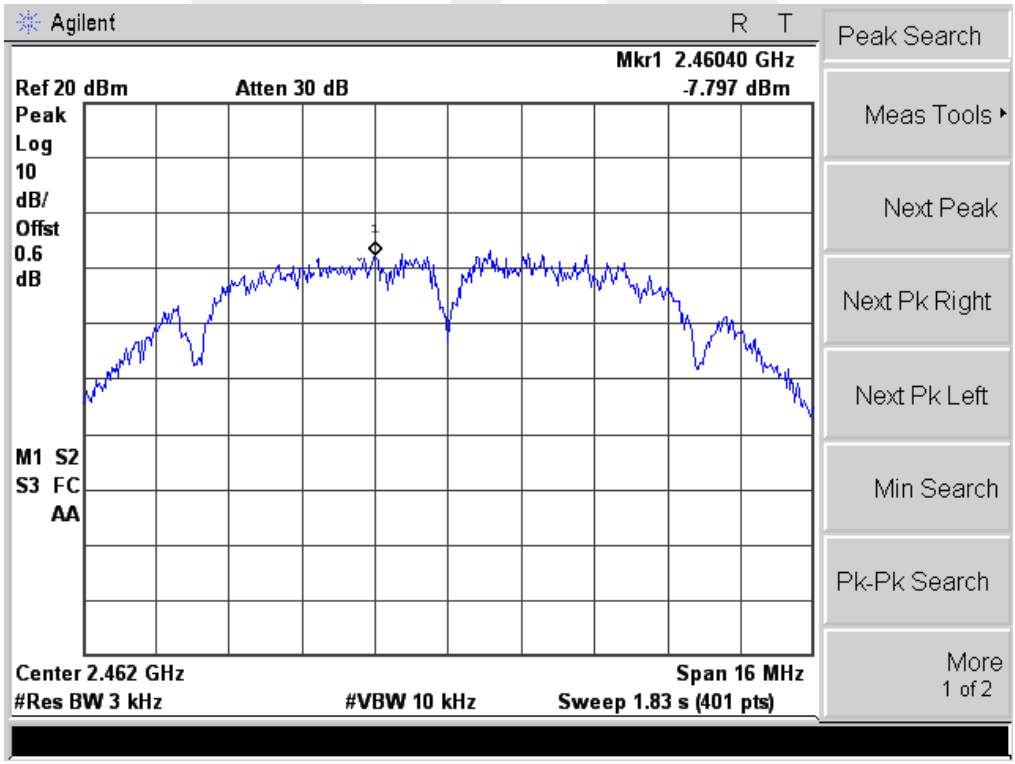
TX CH01



TX CH06



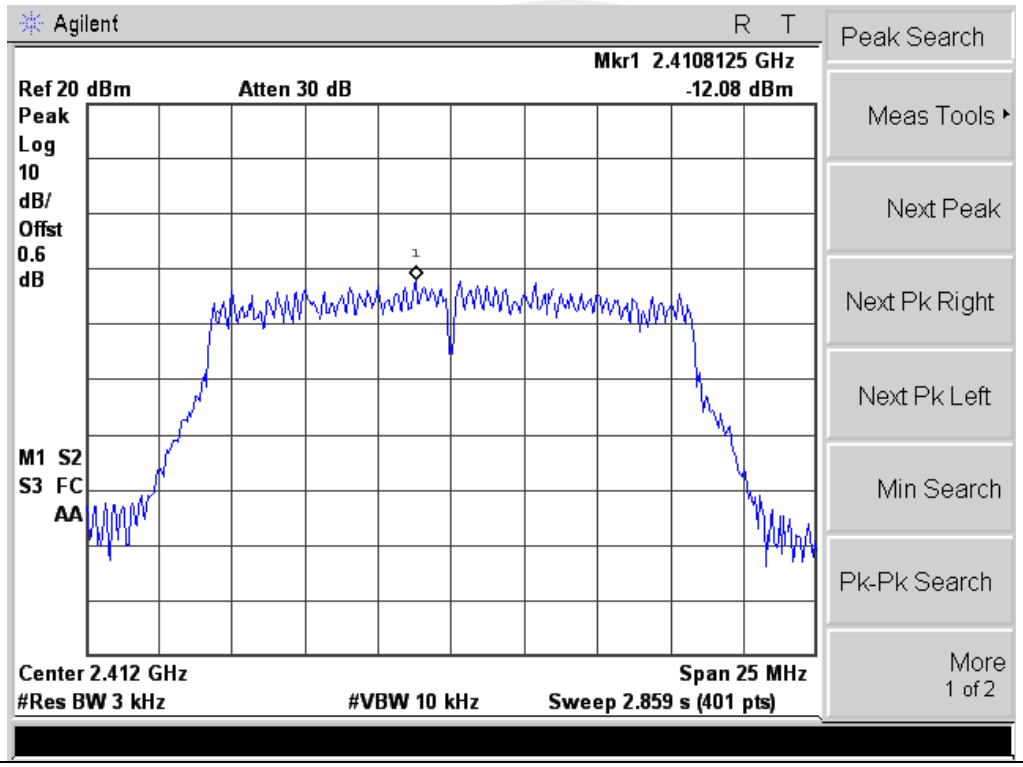
TX CH11



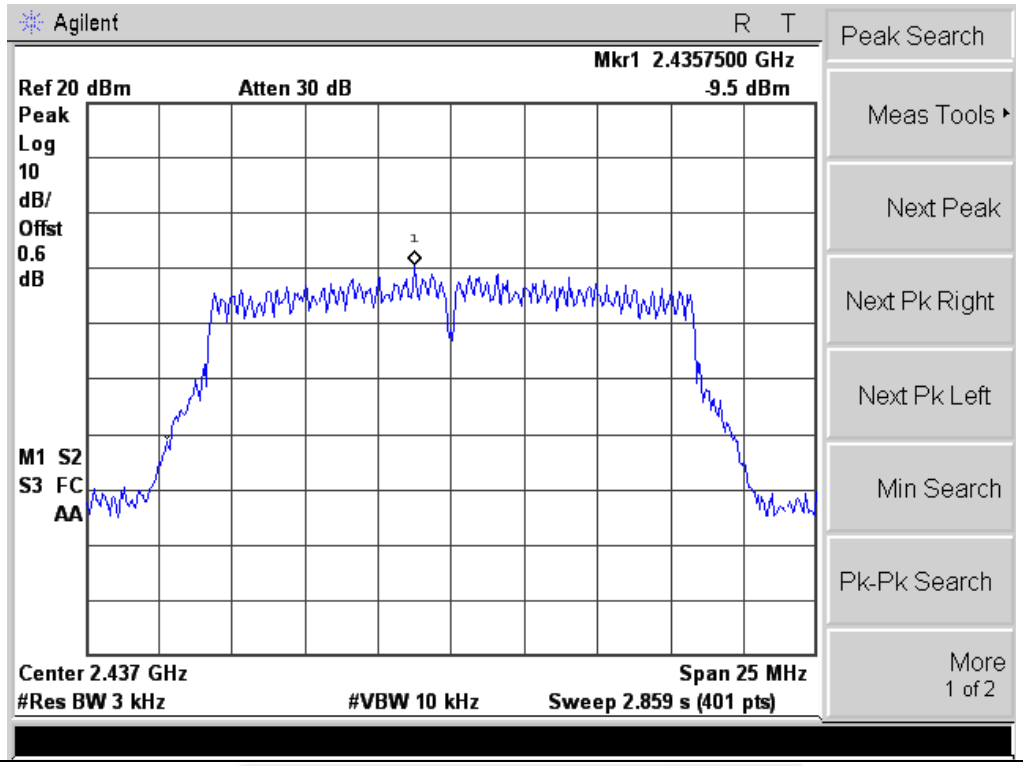
EUT：	Revel Pro	Model Name ：	X510A
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1015 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	TX g Mode /CH01, CH06, CH11		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-12.08	8	**PASS**
2437 MHz	-9.50	8	**PASS**
2462 MHz	-11.72	8	**PASS**

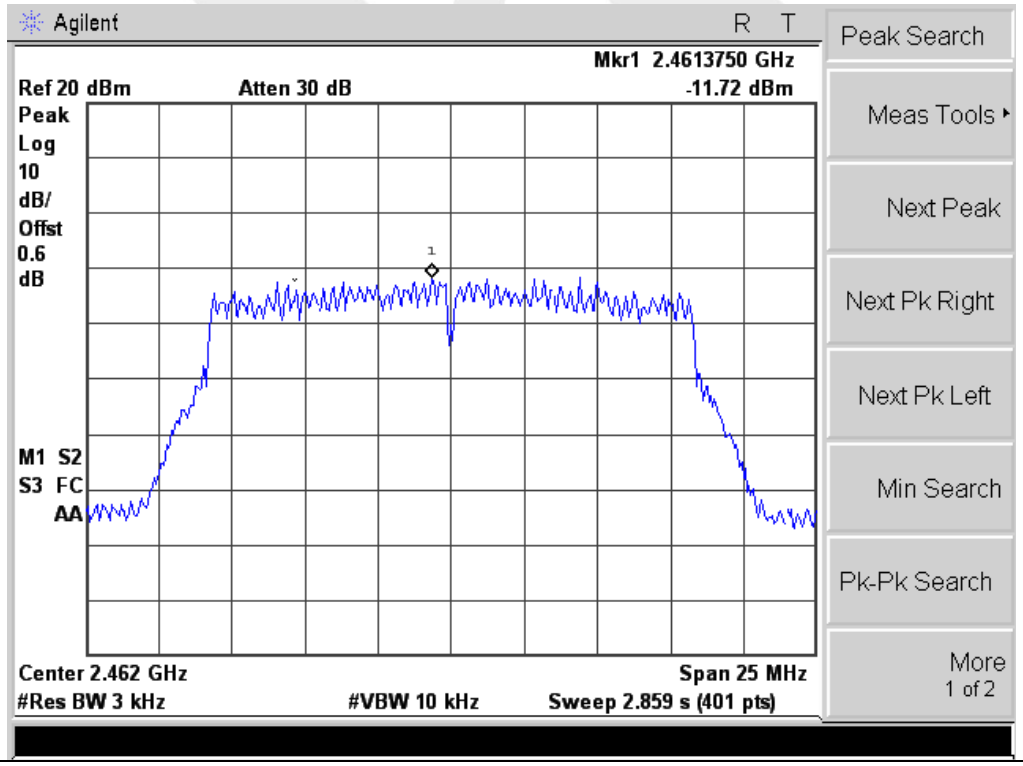
TX CH01



TX CH06



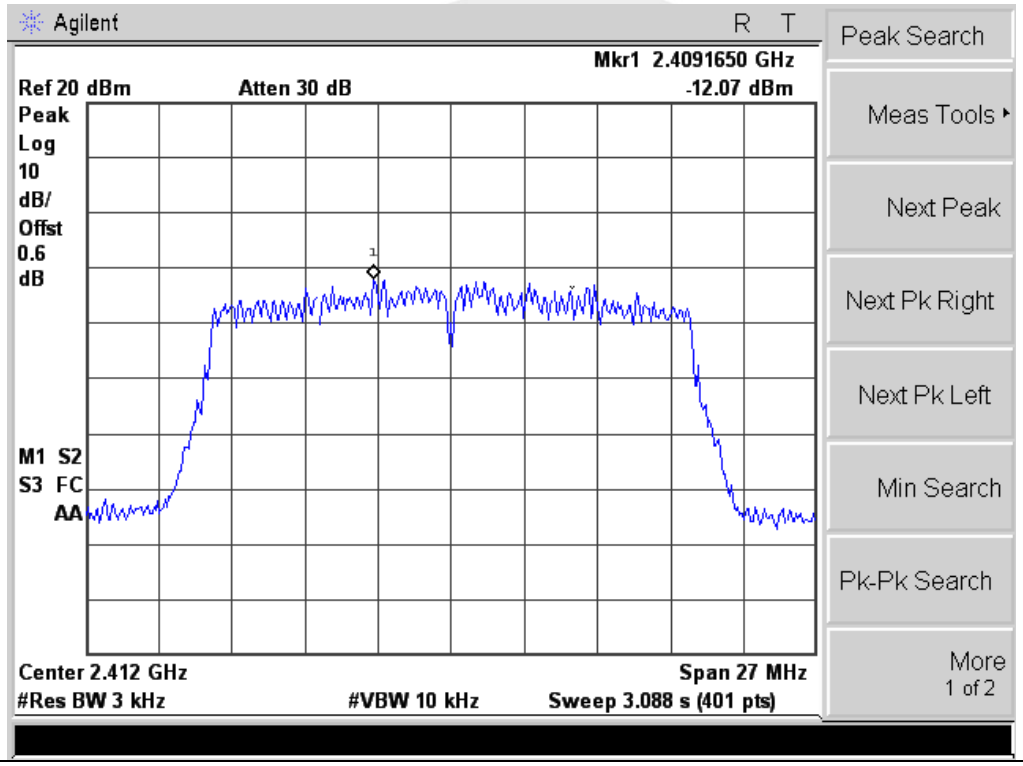
TX CH11



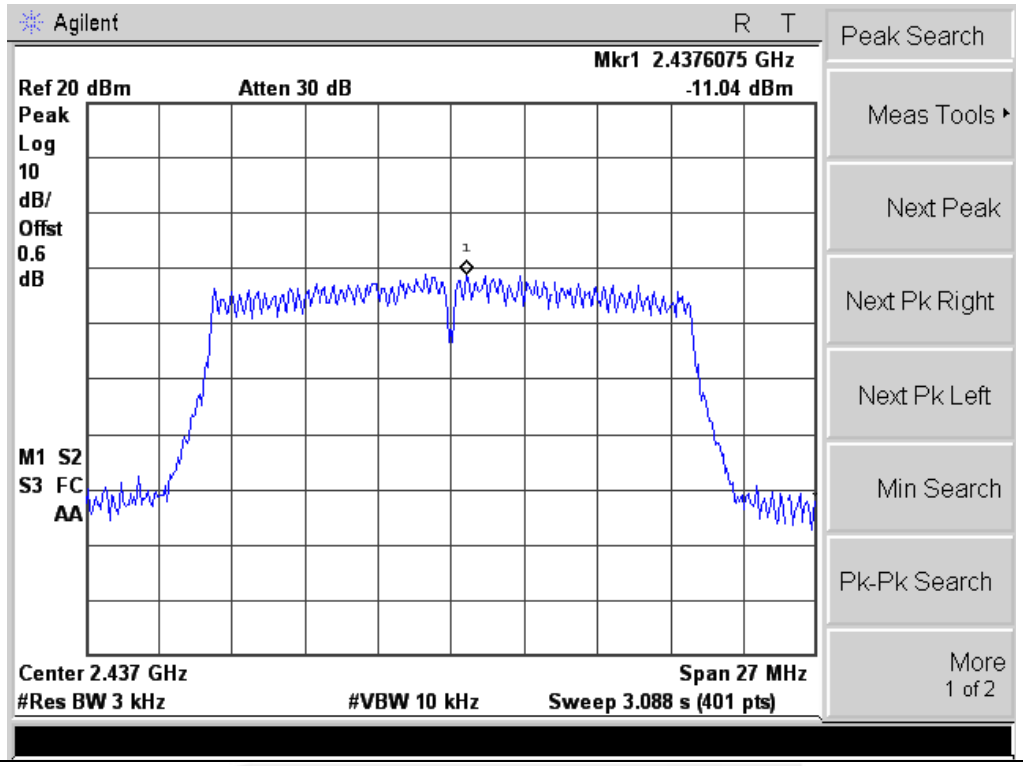
EUT：	Revel Pro	Model Name ：	X510A
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1015 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	TX n Mode(20M) /CH01, CH06, CH11		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-12.07	8	**PASS**
2437 MHz	-11.04	8	**PASS**
2462 MHz	-12.02	8	**PASS**

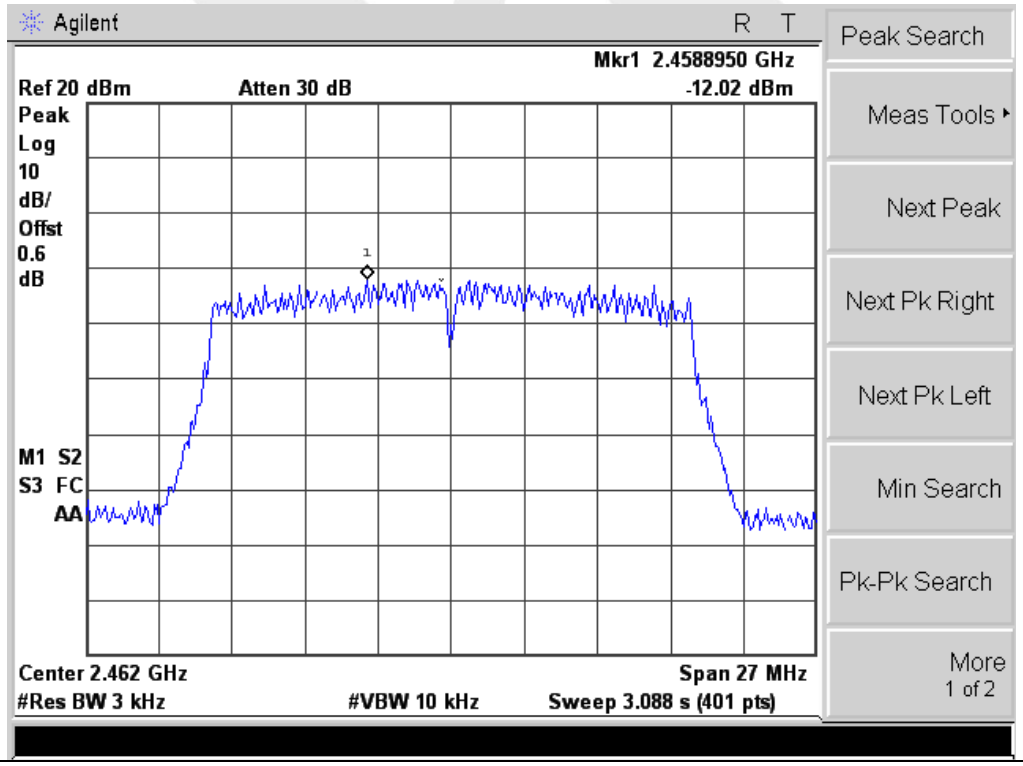
TX CH01



TX CH06



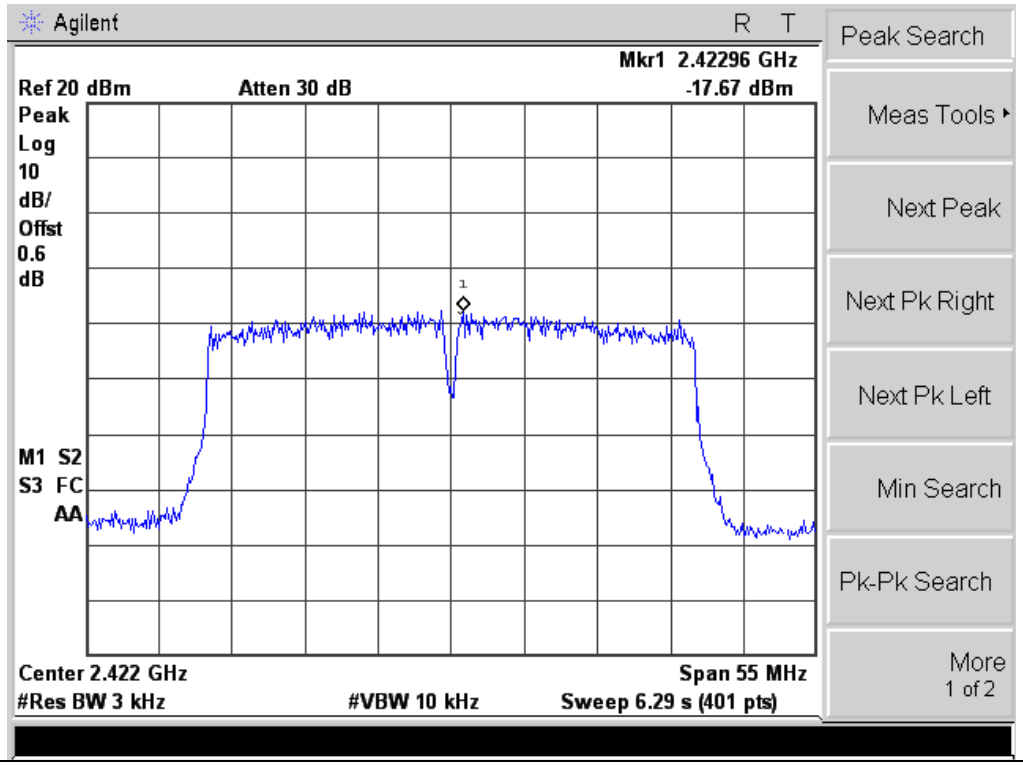
TX CH11



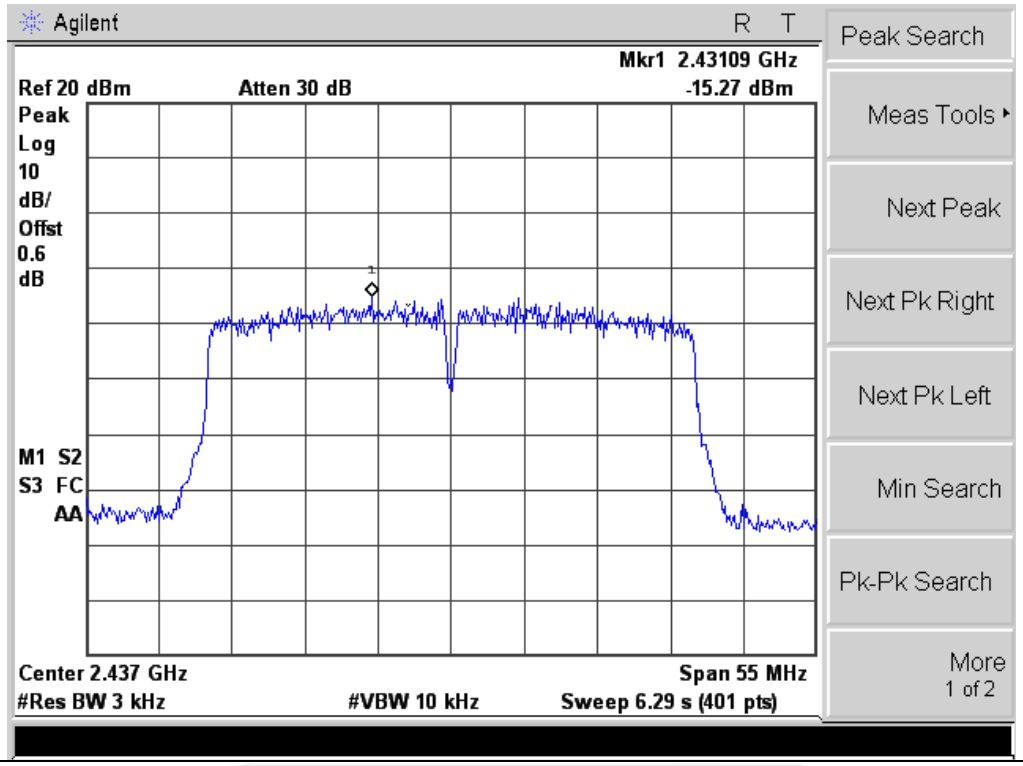
EUT：	Revel Pro	Model Name ：	X510A
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1015 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	TX n Mode(40M) /CH03, CH06, CH09		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2422 MHz	-17.67	8	PASS
2437 MHz	-15.27	8	PASS
2452 MHz	-17.30	8	PASS

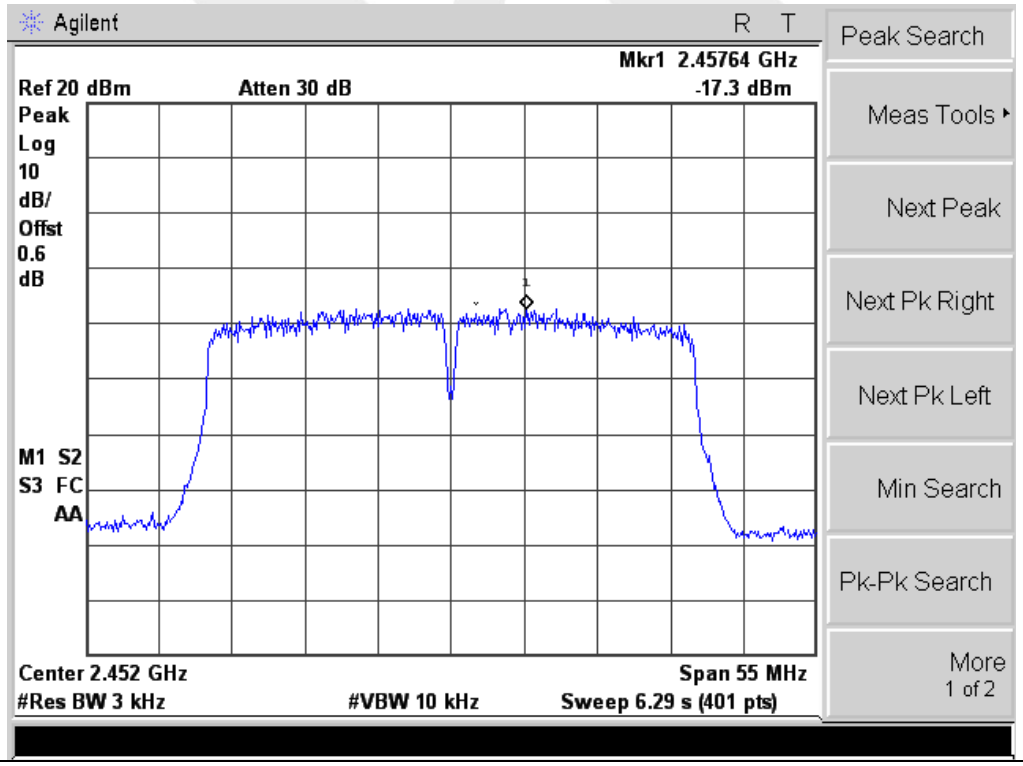
TX CH03



TX CH06



TX CH09



6. BANDWIDTH TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

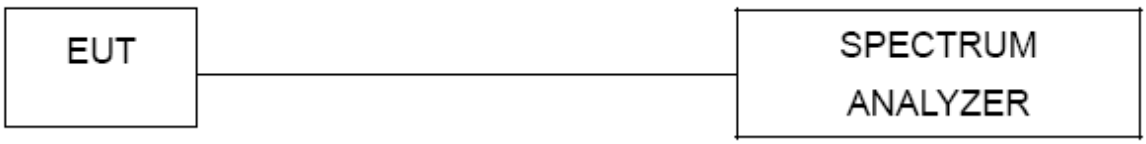
6.2 TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 ´ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7.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 d B relative to the maximum level measured in the fundamental emission.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

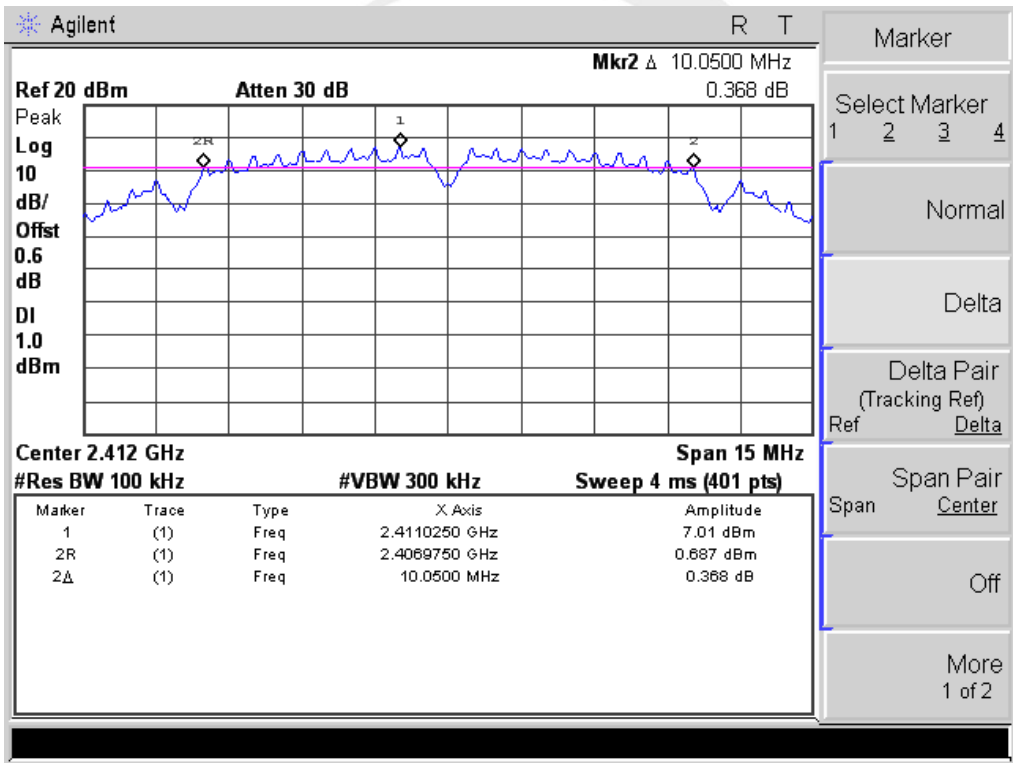
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

6.6 TEST RESULTS

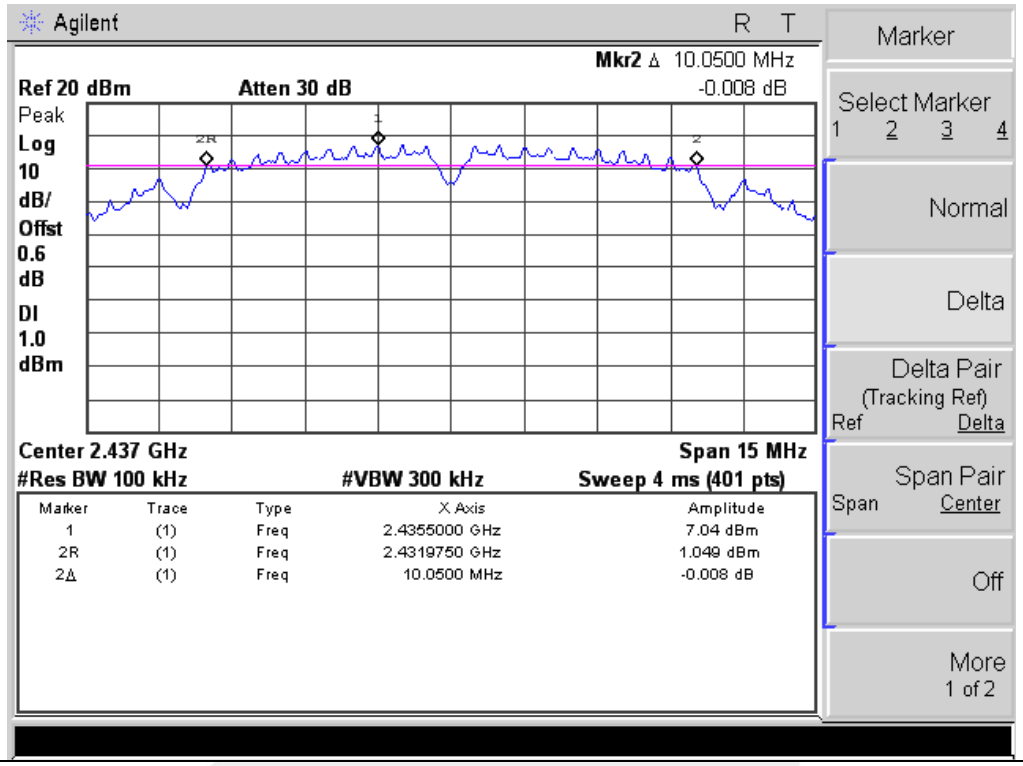
EUT：	Revel Pro	Model Name ：	X510A
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	TX b Mode /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)	Channel Separation	Result
2412 MHz	10.0500	>=500KHz	**PASS**
2437 MHz	10.0500	>=500KHz	**PASS**
2462 MHz	10.0500	>=500KHz	**PASS**

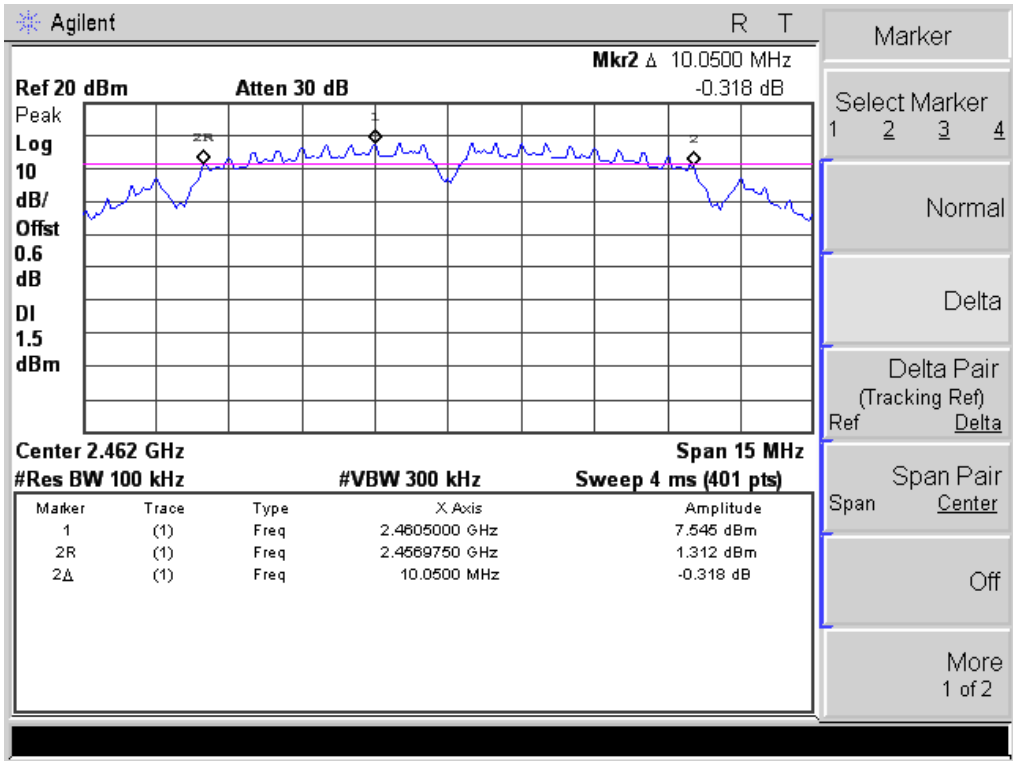
TX CH 01



TX CH 06



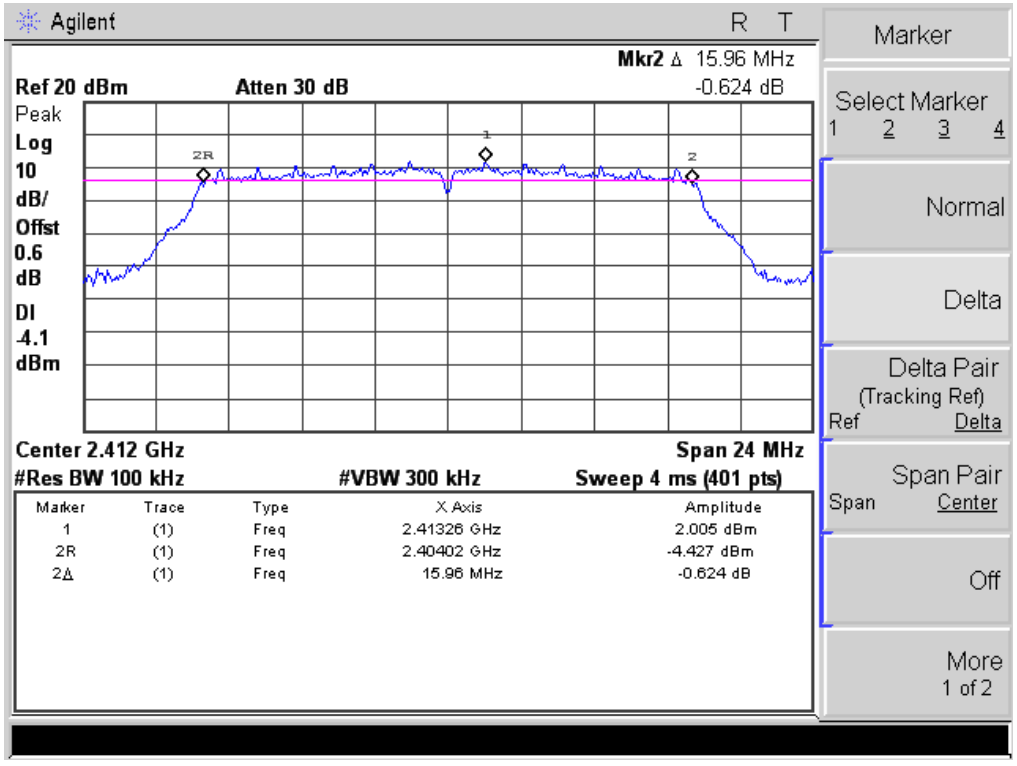
TX CH 11



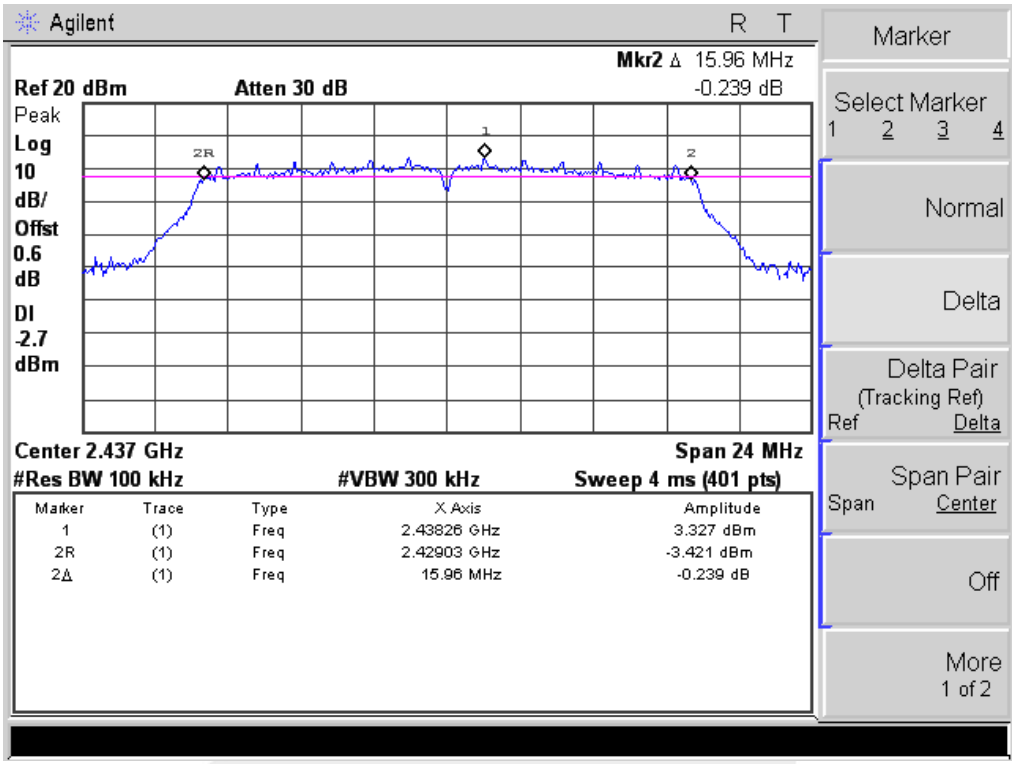
EUT：	Revel Pro	Model Name ：	X510A
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	TX g Mode /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)	Channel Separation	Result
2412 MHz	15.9600	>=500KHz	**PASS**
2437 MHz	15.9600	>=500KHz	**PASS**
2462 MHz	15.9600	>=500KHz	**PASS**

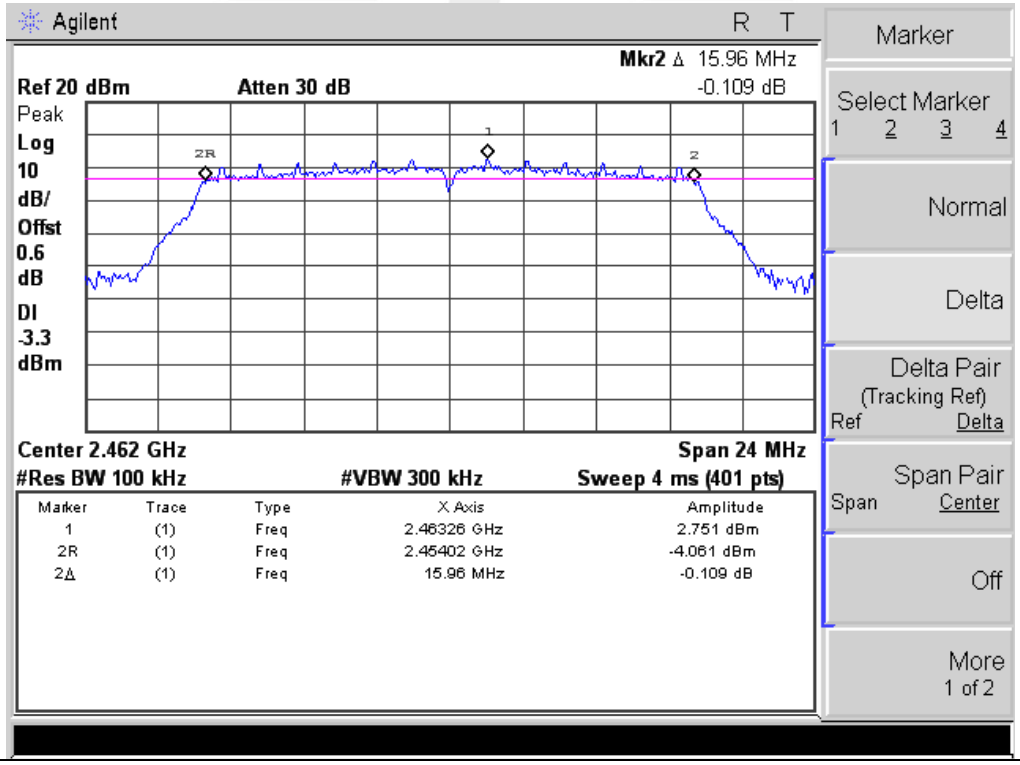
TX CH 01



TX CH 06



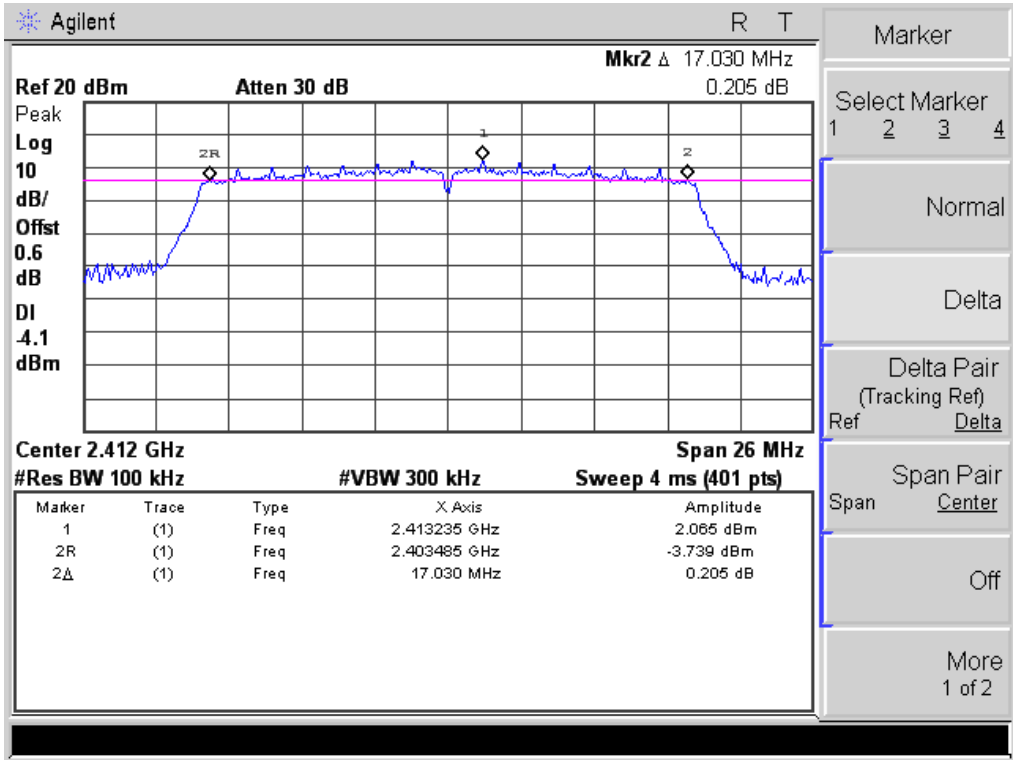
TX CH 11



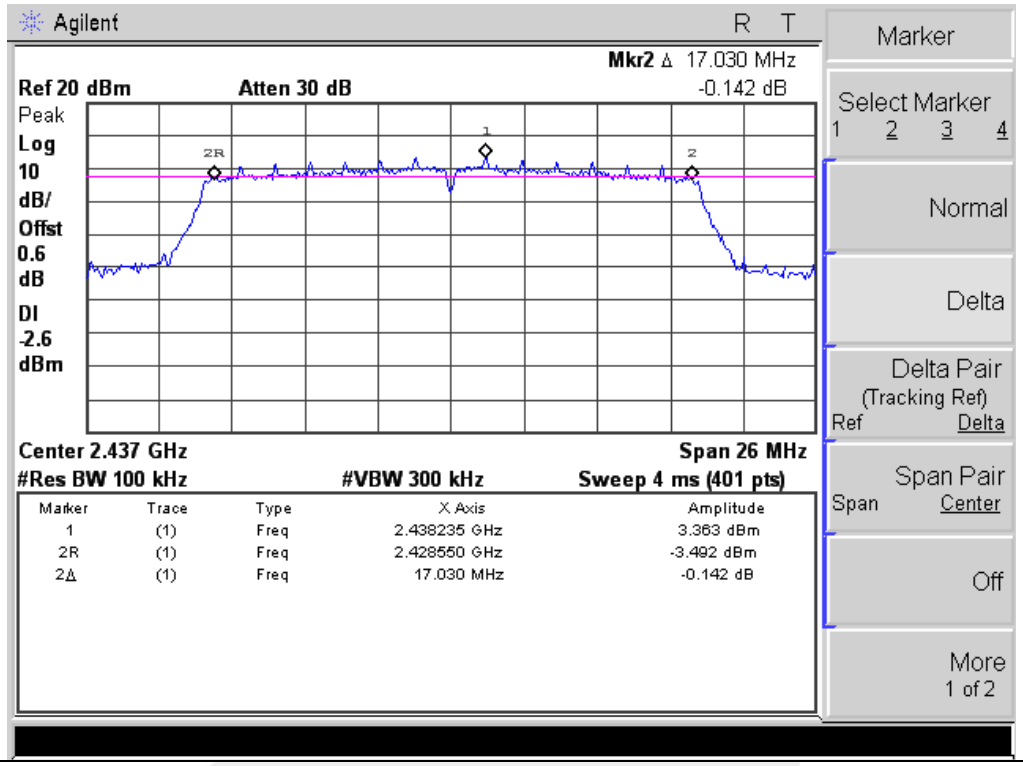
EUT：	Revel Pro	Model Name ：	X510A
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	TX n Mode(20M) /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)	Channel Separation	Result
2412 MHz	17.030	>=500KHz	**PASS**
2437 MHz	17.030	>=500KHz	**PASS**
2462 MHz	17.030	>=500KHz	**PASS**

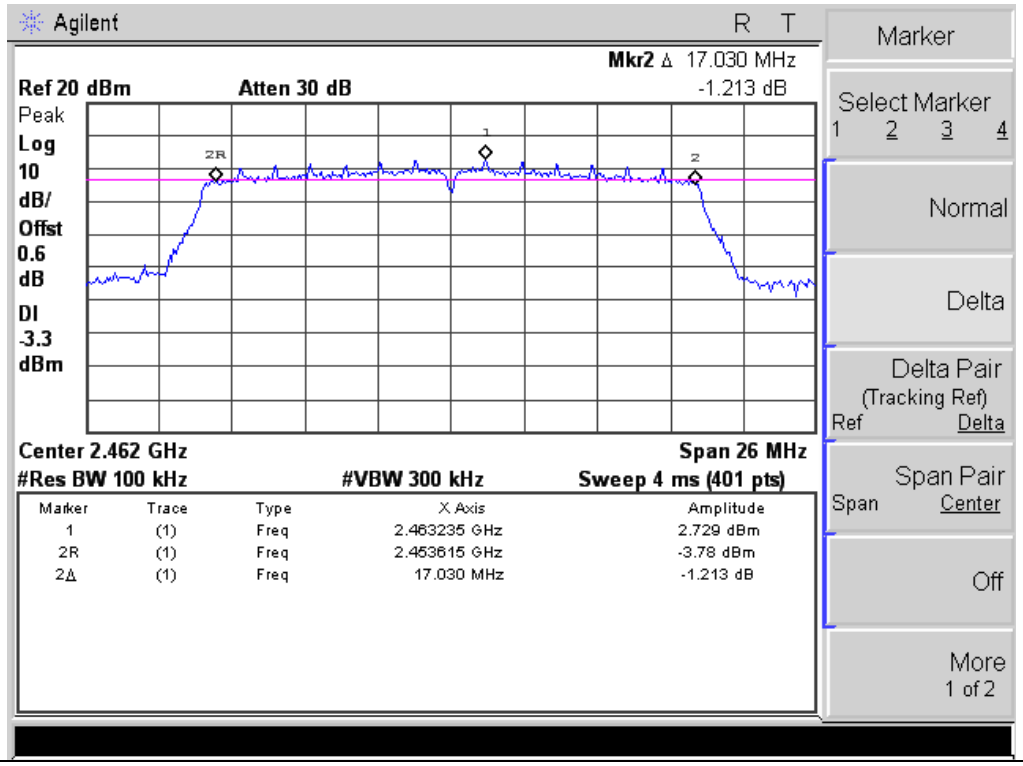
TX CH 01



TX CH 06



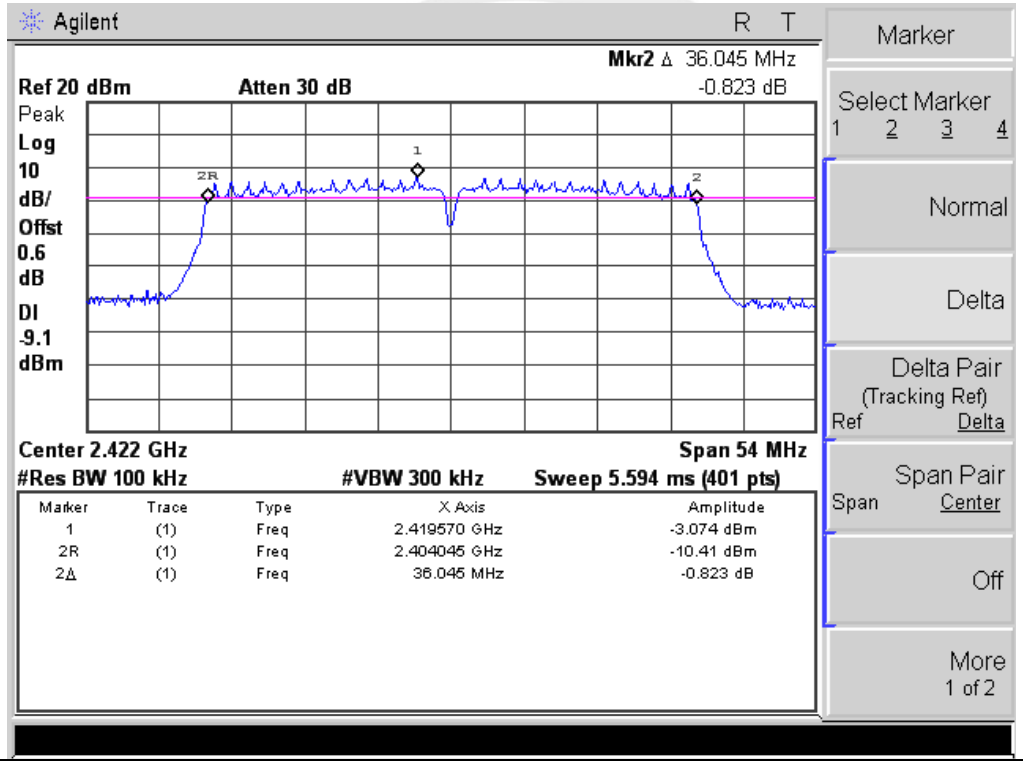
TX CH 11



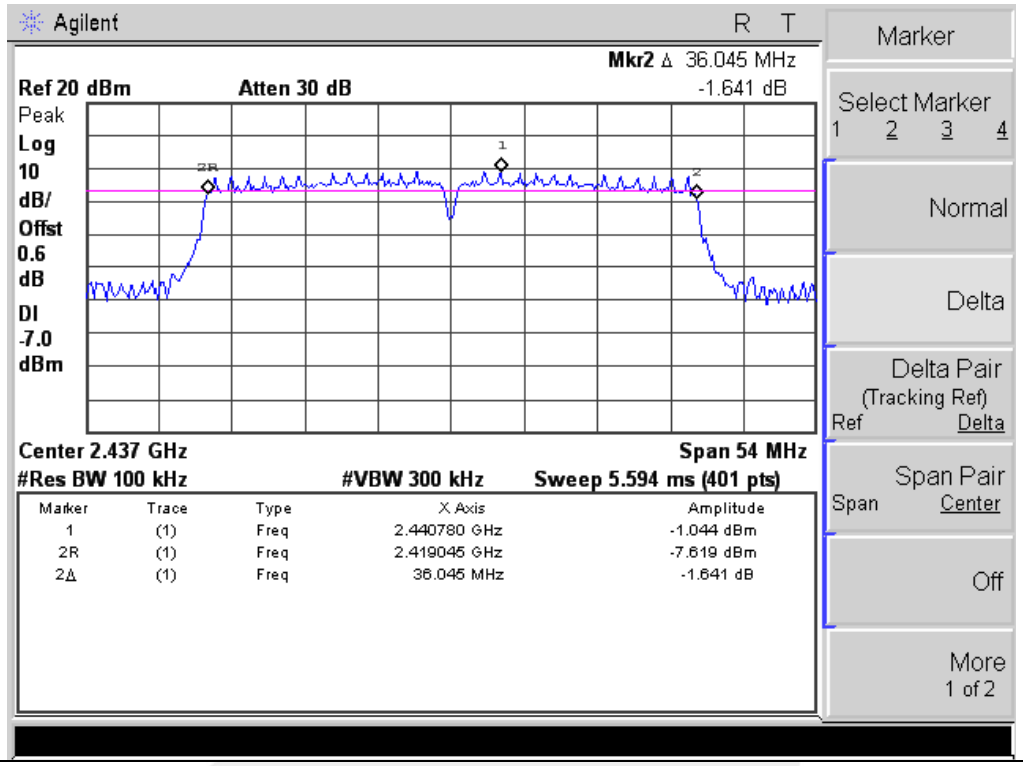
EUT：	Revel Pro	Model Name ：	X510A
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	TX n Mode(40M) /CH03, CH06, CH09		

Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2422 MHz	36.045	>=500KHz	**PASS**
2437 MHz	36.045	>=500KHz	**PASS**
2452 MHz	36.045	>=500KHz	**PASS**

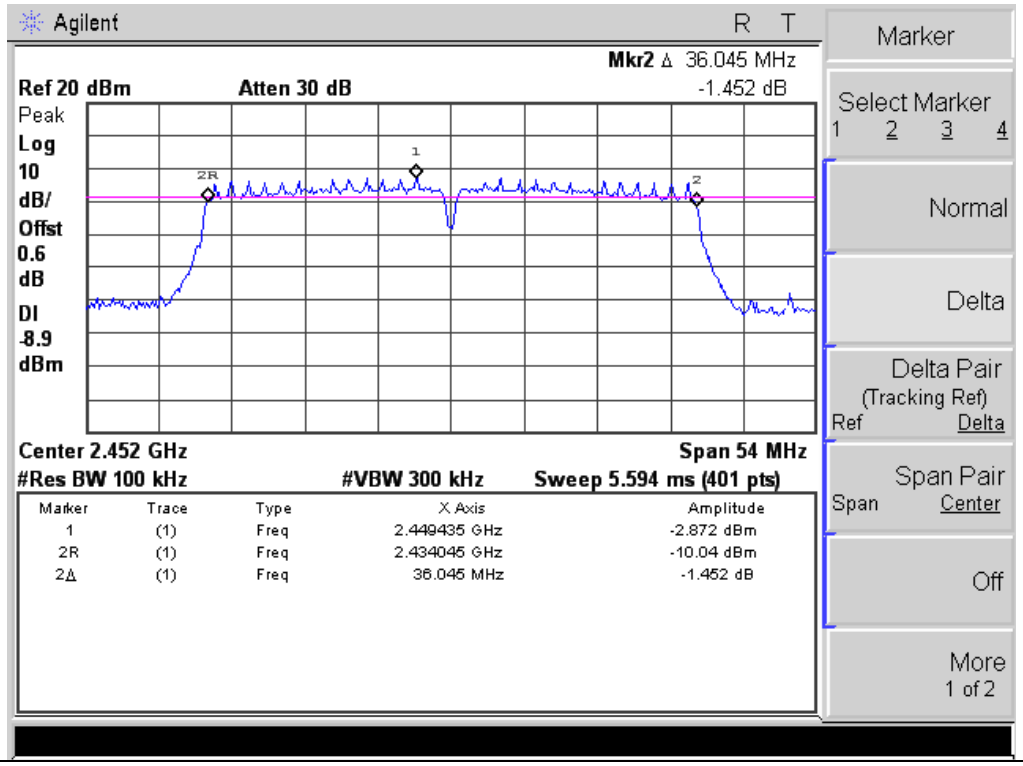
TX CH 03



TX CH 06



TX CH 09



7. PEAK OUTPUT POWER TEST

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

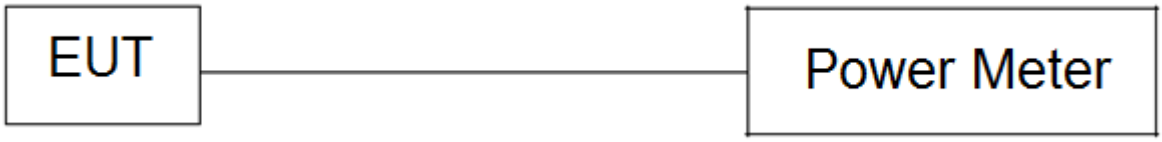
7.2 TEST PROCEDURE

a. The EUT was directly connected to the Power Sensor&Power meter

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.4 EUT OPERATION 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.

7.5 TEST RESULTS

EUT：	Revel Pro	Model Name ：	X510A
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	TX b/g/n(20M,40M) Mode /CH01, CH06, CH11		

TX 802.11b Mode			
Test Channe	Frequency (MHz)	Peak Conducted Output Power (dBm)	LIMIT dBm
CH01	2412	15.00	30
CH06	2437	14.69	30
CH11	2462	15.28	30

TX 802.11g Mode			
Test Channe	Frequency (MHz)	Peak Conducted Output Power (dBm)	LIMIT dBm
CH01	2412	11.01	30
CH06	2437	12.27	30
CH11	2462	11.47	30

TX 802.11n20 Mode			
Test Channe	Frequency (MHz)	Peak Conducted Output Power (dBm)	LIMIT dBm
CH01	2412	10.54	30
CH06	2437	11.99	30
CH11	2462	11.15	30

TX 802.11n40 Mode			
Test Channe	Frequency (MHz)	Peak Conducted Output Power (dBm)	LIMIT dBm
CH03	2422	8.48	30
CH06	2437	9.66	30
CH09	2452	9.05	30

8. ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

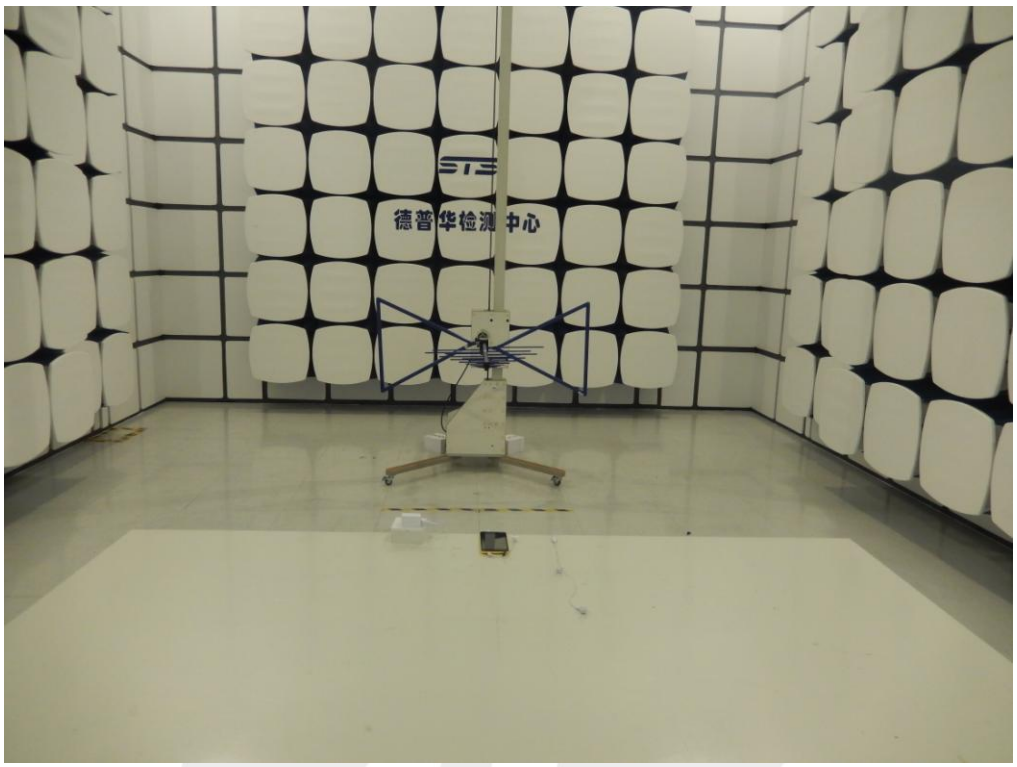
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

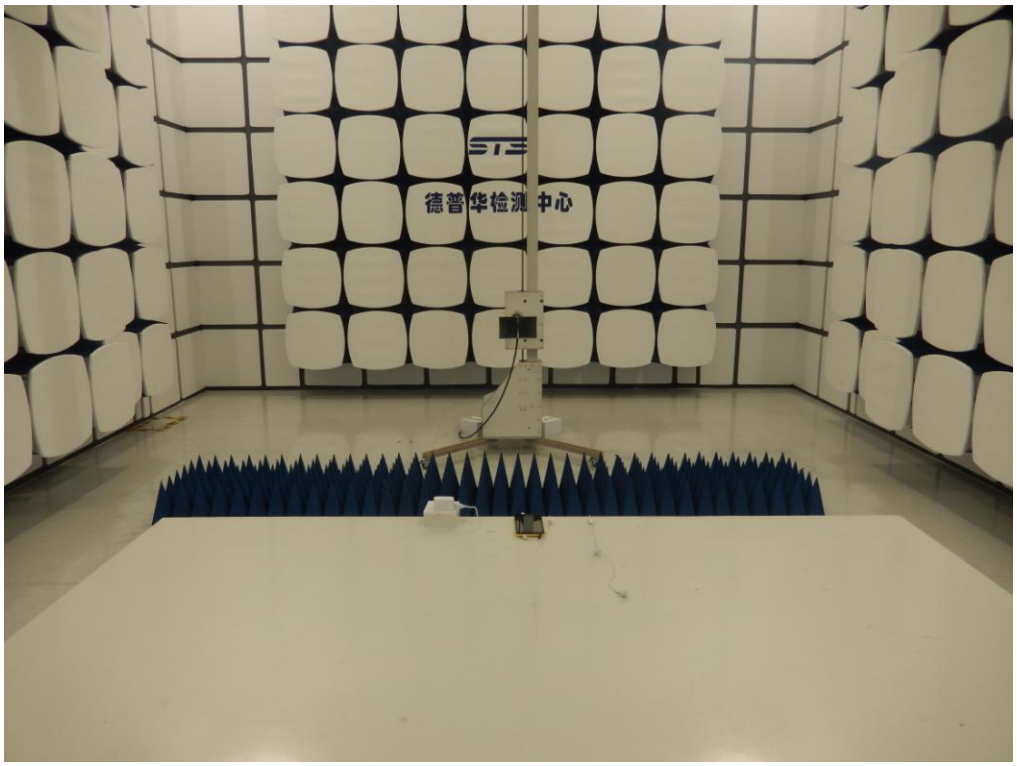
8.2 EUT ANTENNA

The EUT antenna is unique Antenna. It comply with the standard requirement.

APPENDIX - PHOTOS OF TEST SETUP

Radiated Measurement Photos





Conducted Measurement Photos