



FCC TEST REPORT

Report No: STS1502047F02

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

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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
Band name POSH
Model and/or type reference X510A
Ratings DC 5V/1000mA

Standards FCC Part 15.247

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)(1)	Hopping Channel Separation	PASS	
15.247(b)(1)	Peak Output Power	PASS	
15.247(c)	Radiated Spurious Emission	PASS	
15.247(d)	Conducted Spurious Emission	PASS	
15.247(a)(iii)	Number of Hopping Frequency	PASS	
15.247(a)(iii)	Dwell Time	PASS	
15.247(a)(1)	Bandwidth	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 $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95 %**.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 3.18\text{dB}$
2	RF power,conducted	$\pm 0.16\text{dB}$
3	Spurious emissions,conducted	$\pm 0.21\text{dB}$
4	All emissions,radiated(<1G)	$\pm 4.68\text{dB}$
5	All emissions,radiated(>1G)	$\pm 4.71\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$



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
Channel List	Please refer to the Note 2.
Bluetooth	Frequency:2402 – 2480 MHz Modulation: GFSK(1Mbps), $\pi/4$ -DQPSK(2Mbps), 8-DPSK(3Mbps)
Adapter	Input:AC 100-240V,50/60Hz,0.15A Output:DC 5V,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					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

3. Table for Filed Antenna

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

The EUT antenna is PIFA Antenna. no antenna other than that furnished by the responsible party shall be used with the device.



2.1 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	CH00
Mode 2	CH39
Mode 3	CH78
Mode 4	Charging
Mode 5	Link Mode

For Conducted Emission	
Final Test Mode	Description
Mode 4	Charging

For Radiated Emission	
Final Test Mode	Description
Mode 1	CH00
Mode 2	CH39
Mode 3	CH78
Mode 5	Link Mode

Note:

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

2.2 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

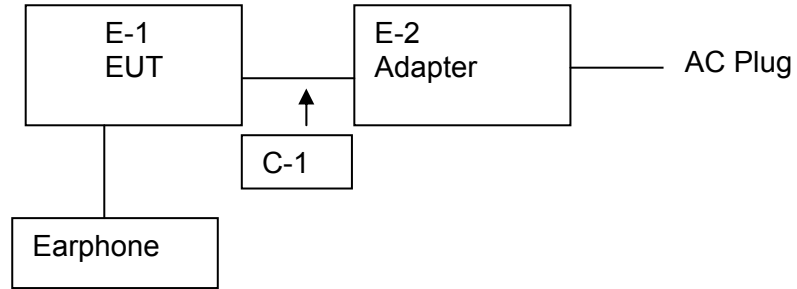
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS

Test software Version	Test program: N/A		
Frequency	2402 MHz	2441 MHz	2480 MHz
Parameters(1Mbps)	DEF	DEF	DEF

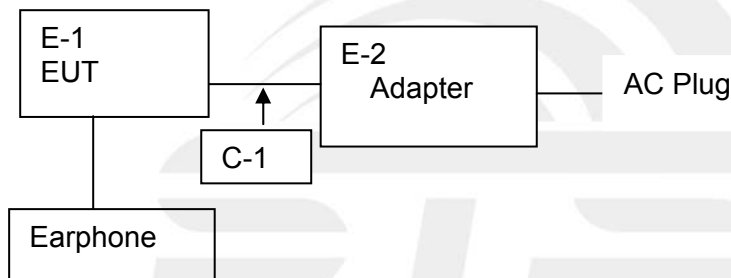
2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS

Radiated Spurious Emission Test



Conducted Emission 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

Item	Shielded Type	Ferrite Core	Length	Note
C-1	No	No	1.5M	

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) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.



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
50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2014.06.06	2015.06.06
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	EM	EM-30180	060538	2014.12.22	2015.12.21
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

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	102086	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
50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2014.06.06	2015.06.06
Passive Voltage Probe	R&S	ESH2-Z3	100196	2014.06.06	2015.06.06
Absorbing clamp	R&S	MDS-21	100668	2014.10.27	2015.10.26



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.

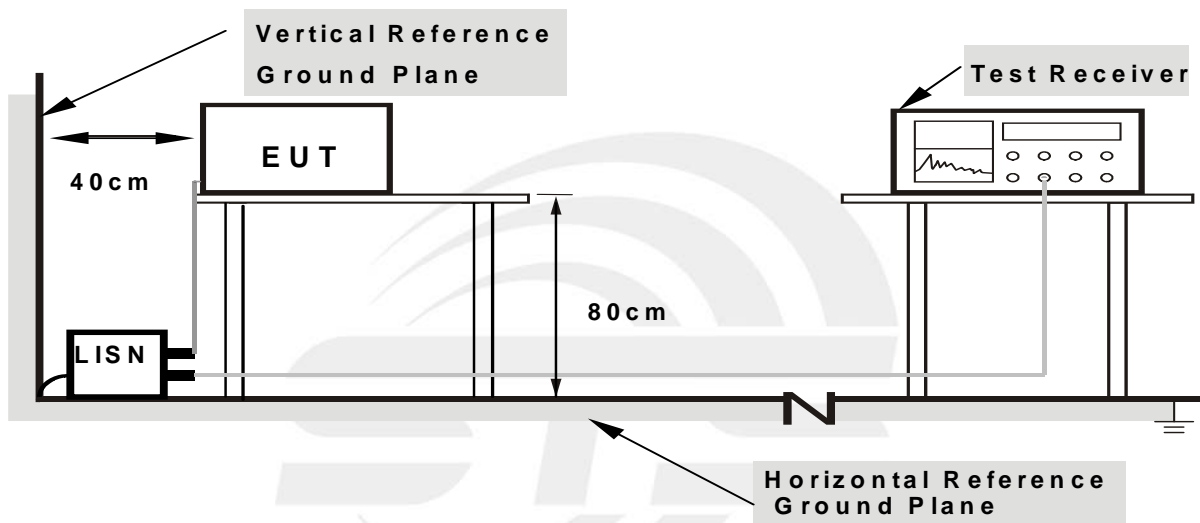
The following table is the setting of the receiver

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

3.1.2 TEST PROCEDURE

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

3.1.3 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.1.4 EUT OPERATING CONDITIONS

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



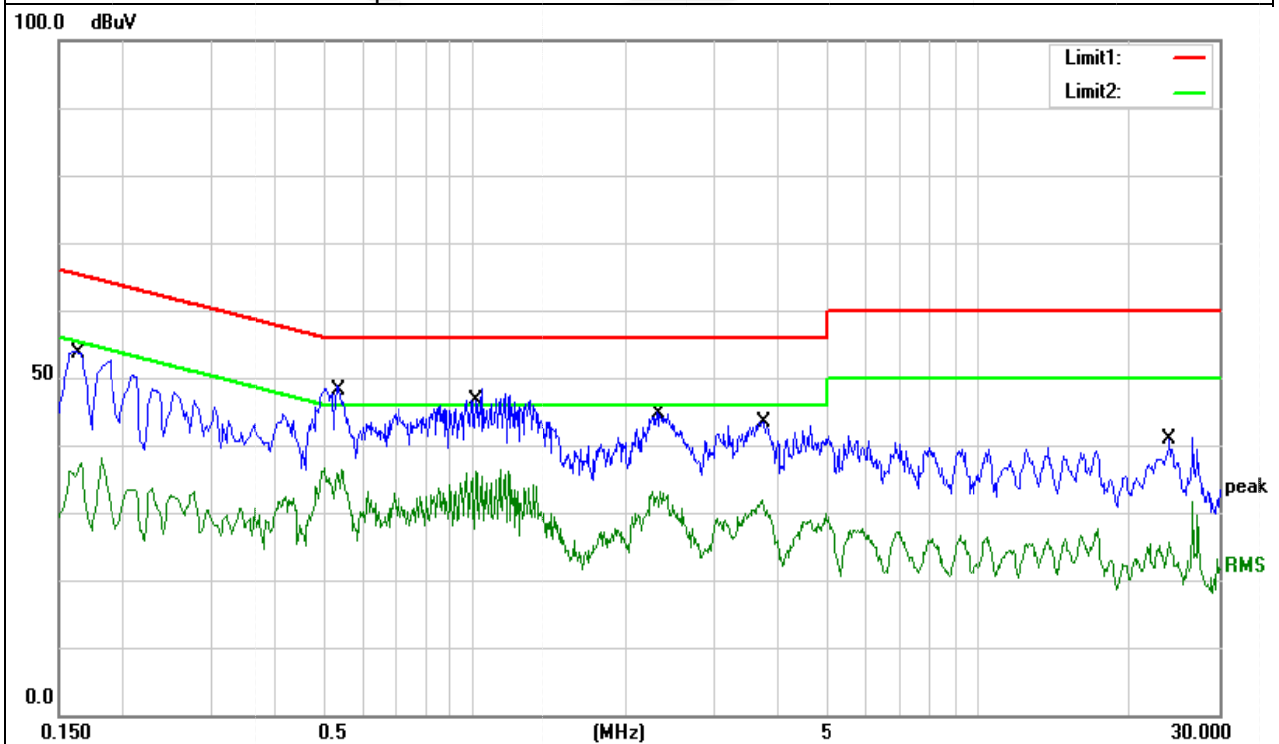
3.1.5 TEST RESULTS

EUT :	Revel Pro	Model Name. :	X510A
Temperature :	23 °C	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	0.1620	48.02	10.00	58.02	65.36	-7.34	QP
2	0.1620	34.70	10.00	44.70	55.36	-10.66	AVG
3	0.4860	37.72	9.94	47.66	56.24	-8.58	QP
4	0.4860	26.28	9.94	36.22	46.24	-10.02	AVG
5	0.5500	37.89	9.93	47.82	56.00	-8.18	QP
6	0.5500	26.91	9.93	36.84	46.00	-9.16	AVG
7	0.7860	34.39	9.97	44.36	56.00	-11.64	QP
8	0.7860	21.23	9.97	31.20	46.00	-14.80	AVG
9	2.5340	33.37	10.00	43.37	56.00	-12.63	QP
10	2.5340	20.46	10.00	30.46	46.00	-15.54	AVG
11	17.3180	31.04	10.53	41.57	60.00	-18.43	QP
12	17.3180	19.84	10.53	30.37	50.00	-19.63	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. N/A means All Data have pass Limit



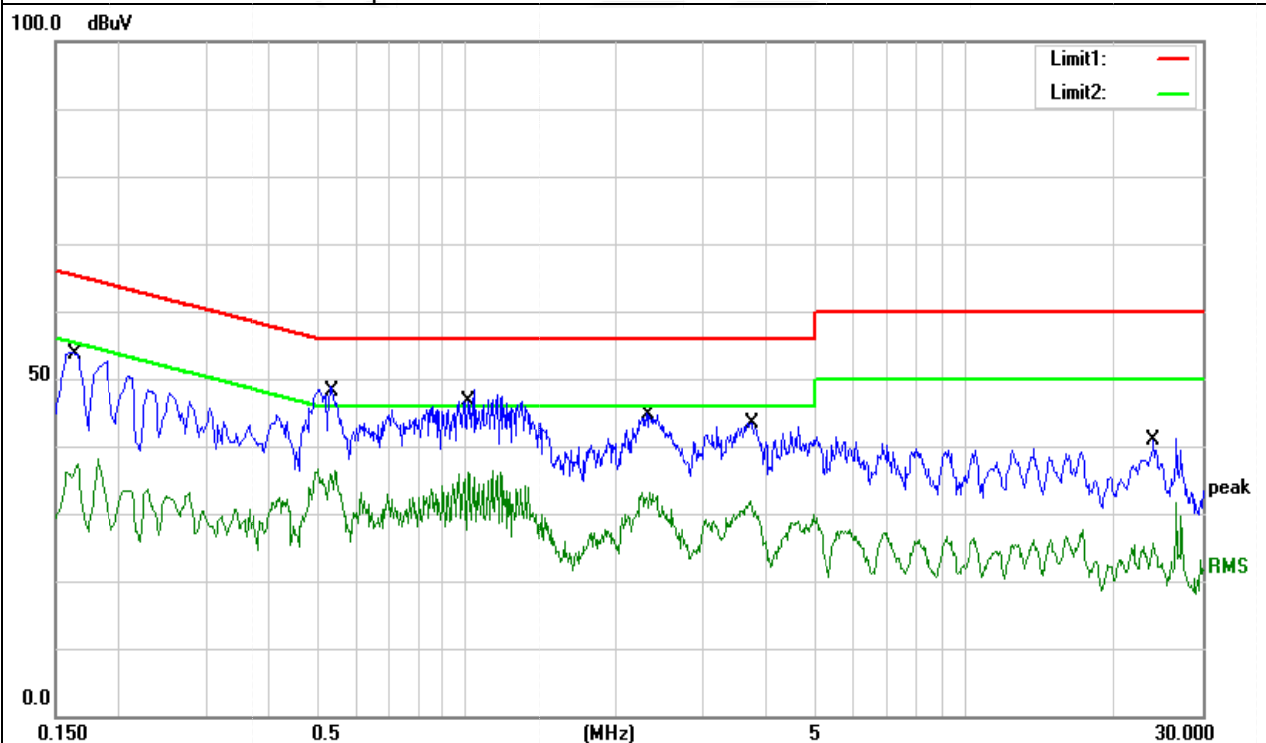


EUT :	Revel Pro	Model Name. :	X510A
Temperature :	23 °C	Relative Humidity :	50%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Link Mode

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1660	43.86	10.00	53.86	65.16	-11.30	QP
2	0.1660	26.21	10.00	36.21	55.16	-18.95	AVG
3	0.4860	36.36	9.91	46.27	56.24	-9.97	QP
4	0.4860	20.68	9.91	30.59	46.24	-15.65	AVG
5	0.8740	35.06	10.00	45.06	56.00	-10.94	QP
6	0.8740	20.54	10.00	30.54	46.00	-15.46	AVG
7	1.9180	30.15	10.00	40.15	56.00	-15.85	QP
8	1.9180	14.69	10.00	24.69	46.00	-21.31	AVG
9	3.5620	29.82	10.18	40.00	56.00	-16.00	QP
10	3.5620	14.71	10.18	24.89	46.00	-21.11	AVG
11	17.1700	33.57	10.43	44.00	60.00	-16.00	QP
12	17.1700	21.48	10.43	31.91	50.00	-18.09	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. N/A means All Data have pass Limit





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS

20dBc 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.

LIMITS OF RADIATED EMISSION MEASUREMENT (30MHz - 1000MHz)

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	5 th 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

- 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.
- 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.
- 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.
- 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.
- 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.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

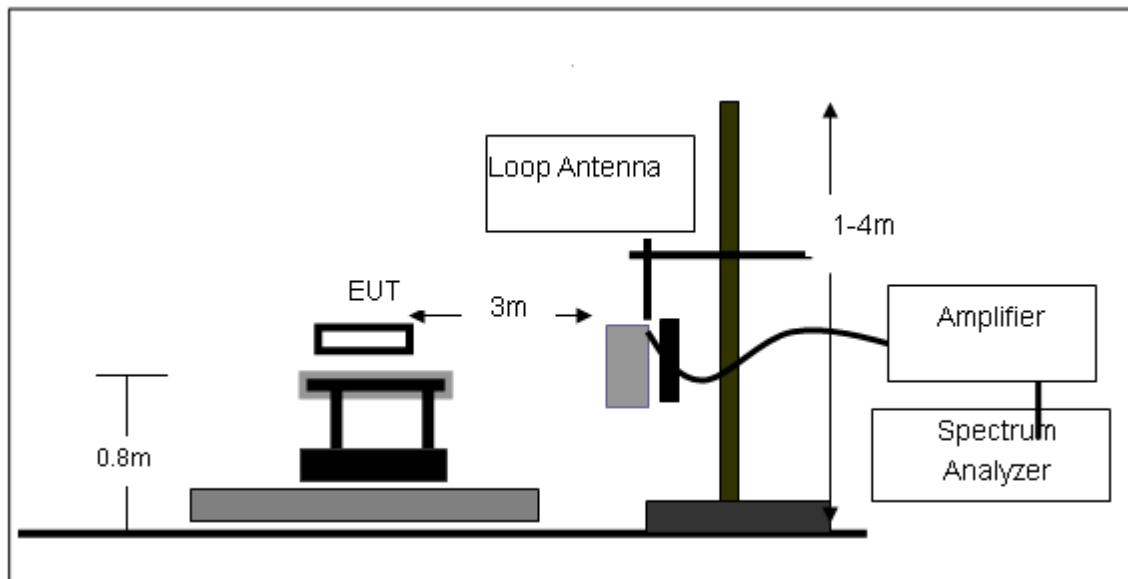
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

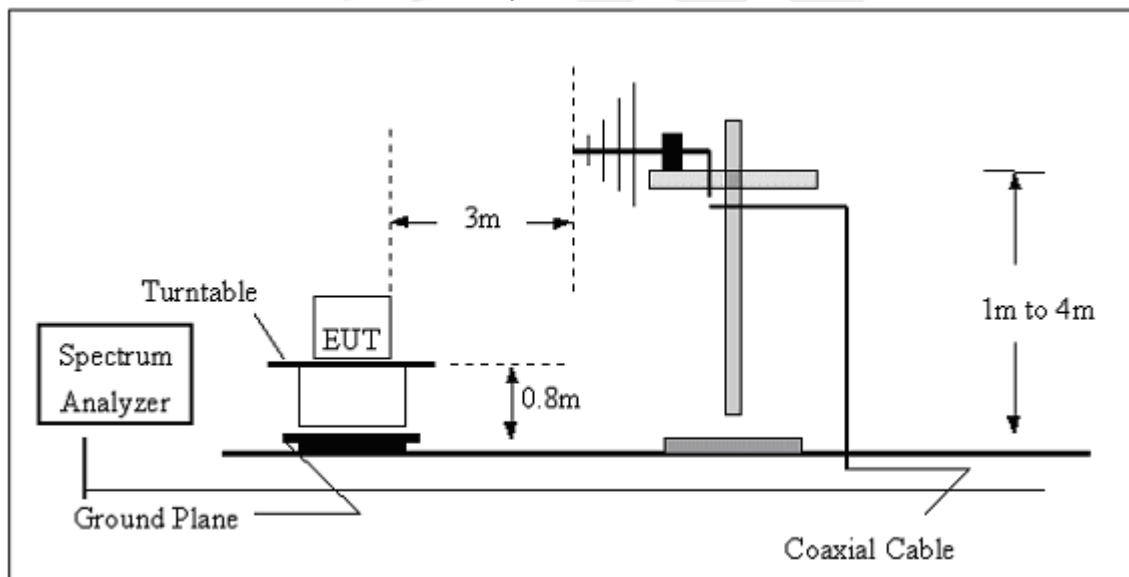
No deviation

3.2.4 TEST SETUP

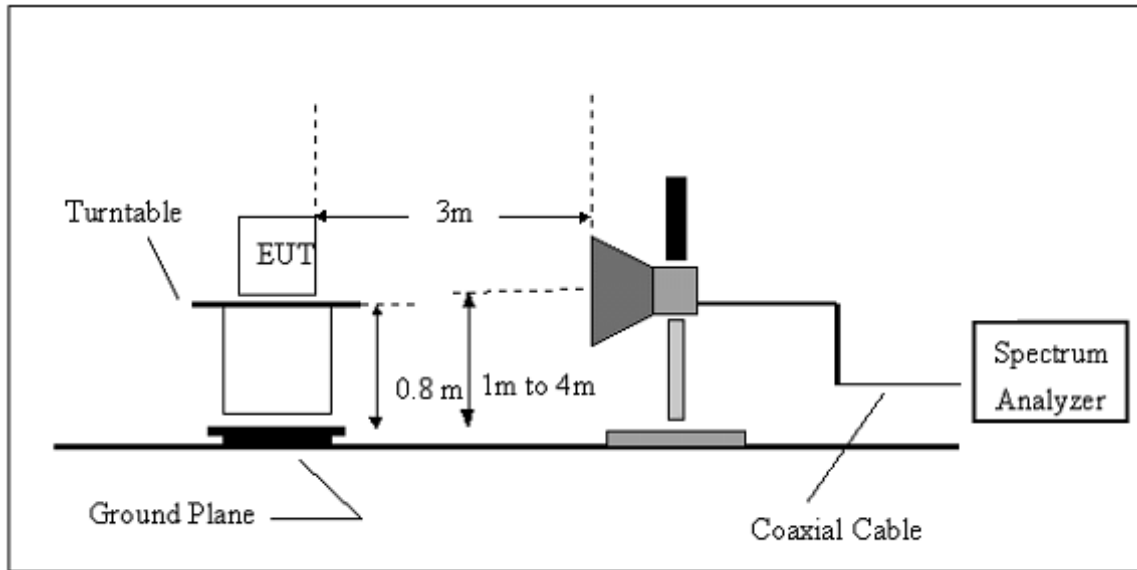
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



3.2.5 EUT OPERATING CONDITIONS

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



3.2.6 TEST RESULTS

Below 30 MHz

EUT :	Revel Pro	Model Name. :	X510A
Temperature :	23 °C	Relative Humidity :	50%
Pressure :	1010 hPa	Polarization :	---
Test Voltage :	DC 5V from Adapter AC 120V/60Hz		
Test Mode :	TX Mode		

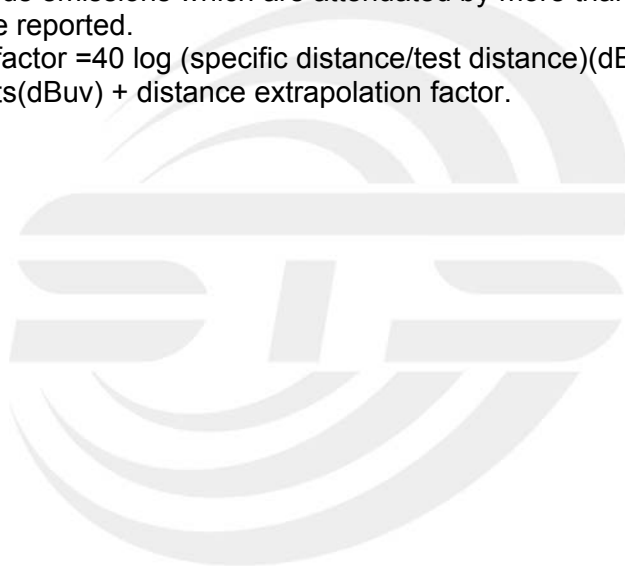
Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

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 = $40 \log (\text{specific distance}/\text{test distance})$ (dB);

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





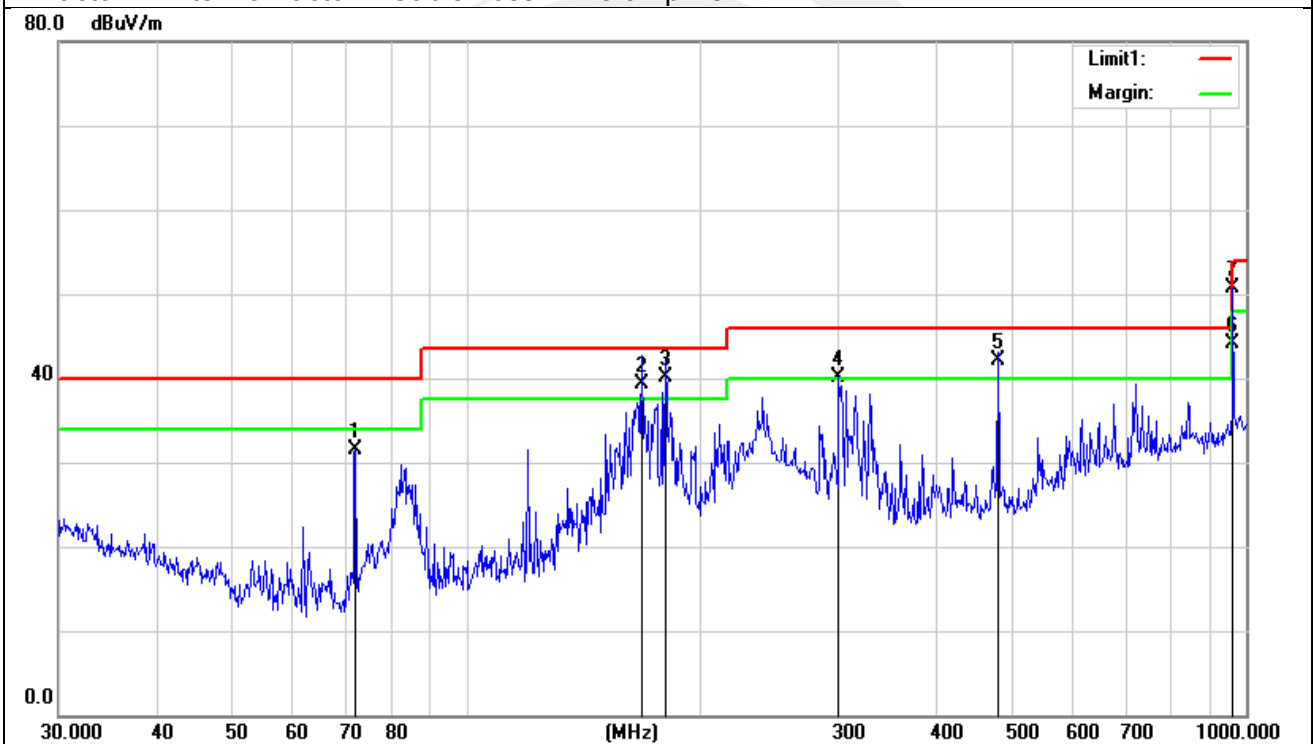
Between 30MHz – 1000 MHz

EUT :	Revel Pro	Model Name. :	X510A
Temperature :	23 °C	Relative Humidity :	50%
Pressure :	1010 hPa	Polarization :	Horizontal
Test Voltage :	DC 5V from Adapter AC 120V/60Hz		
Test Mode :	TX Mode		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	72.0843	24.60	6.82	31.42	40.00	-8.58	QP
2	167.8243	28.20	11.06	39.26	43.50	-4.24	QP
3	180.0165	29.49	10.52	40.01	43.50	-3.49	QP
4	300.3672	24.85	15.23	40.08	46.00	-5.92	QP
5	480.5276	21.72	20.40	42.12	46.00	-3.88	QP
6	960.0423	14.87	29.29	44.16	54.00	-9.84	QP

Remark:

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



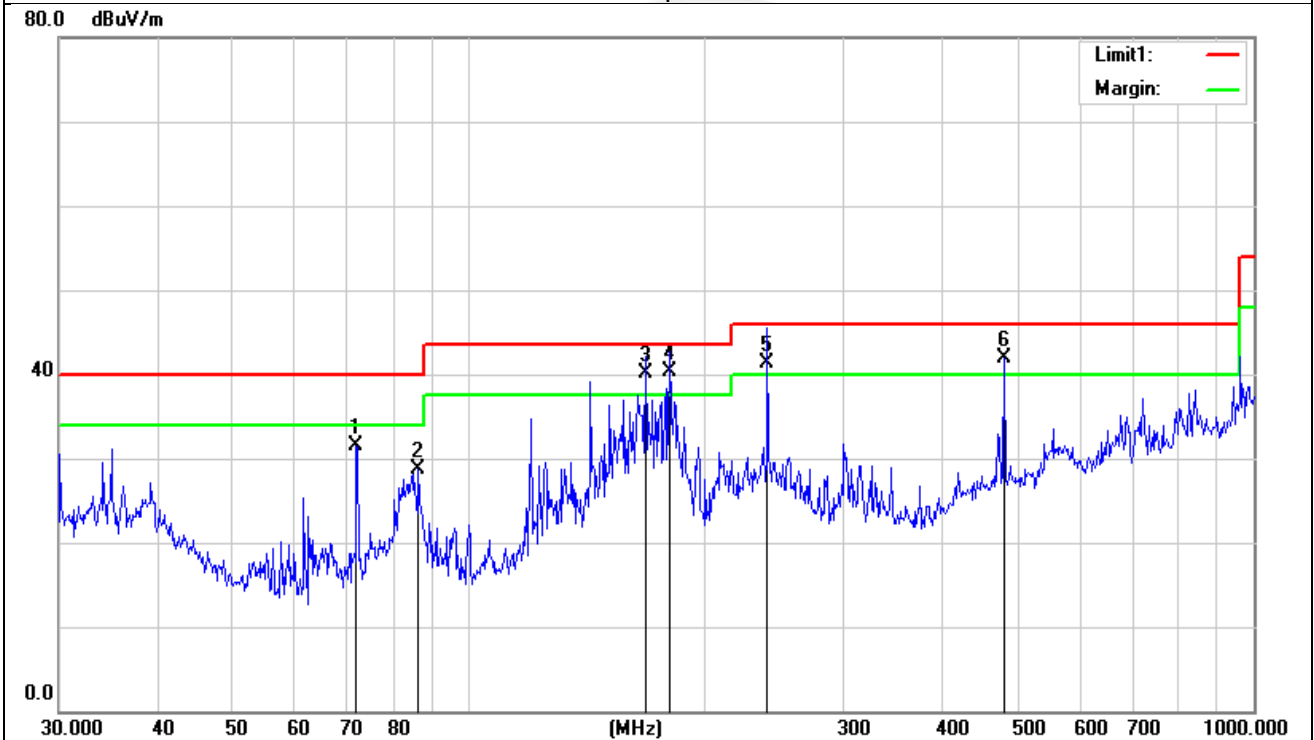


EUT :	Revel Pro	Model Name. :	X510A
Temperature :	23 °C	Relative Humidity :	50%
Pressure :	1010 hPa	Polarization :	Vertical
Test Voltage :	DC 5V from Adapter AC 120V/60Hz		
Test Mode :	TX Mode		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	71.8320	24.74	6.78	31.52	40.00	-8.48	QP
2	86.2001	19.55	9.19	28.74	40.00	-11.26	QP
3	167.8243	28.95	11.06	40.01	43.50	-3.49	QP
4	179.9965	29.69	10.52	40.21	43.50	-3.29	QP
5	239.9873	29.21	12.15	41.36	46.00	-4.64	QP
6	480.5276	21.48	20.40	41.88	46.00	-4.12	QP

Remark:

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





Above 1000 MHz

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	
Low Channel (2402 MHz)							
4804.264	66.45	-3.62	62.83	74	-11.17	Pk	Vertical
4804.272	47.46	-3.62	43.84	54	-10.16	AV	Vertical
7206.138	63.23	-0.9	62.33	74	-11.67	pk	Vertical
7206.156	42.78	-0.9	41.88	54	-12.12	AV	Vertical
4803.959	63.97	-3.64	60.33	74	-13.67	Pk	Horizontal
4803.964	45.67	-3.64	42.03	54	-11.97	AV	Horizontal
Mid Channel (2441 MHz)							
4882.128	66.42	-3.65	62.77	74	-11.23	Pk	Vertical
4882.094	51.97	-3.65	48.32	54	-5.68	AV	Vertical
7323.228	62.24	-0.82	61.42	74	-12.58	Pk	Vertical
7323.220	45.95	-0.82	45.13	54	-8.87	AV	Vertical
4882.096	62.12	-3.68	58.44	74	-15.56	Pk	Horizontal
4882.171	46.76	-3.68	43.08	54	-10.92	AV	Horizontal
High Channel (2480 MHz)							
4960.260	62.36	-3.59	58.77	74	-15.23	pk	Vertical
4960.325	45.78	-3.59	42.19	54	-11.81	AV	Vertical
4960.190	64.36	-3.59	60.77	74	-13.23	pk	Horizontal
4960.157	46.63	-3.59	43.04	54	-10.96	AV	Horizontal

Note:

1) 30MHz~25GHz:(Scan with GFSK, π/4-DQPSK,8DPSK, the worst casw is GFSK Mode)

2) Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Emission Level = Meter Reading + Factor

Margin = Limit - Emission Leve



Band edge

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	
GFSK							
2399.9	69.45	-12.99	56.46	74	-17.54	peak	Vertical
2399.9	55.23	-12.99	42.24	54	-11.76	AVG	Vertical
2399.9	70.27	-12.99	57.28	74	-16.72	peak	Horizontal
2399.9	54.28	-12.99	41.29	54	-12.71	AVG	Horizontal
2483.6	71.22	-12.78	58.44	74	-15.56	peak	Vertical
2483.6	54.18	-12.78	41.4	54	-12.6	AVG	Vertical
2483.6	71.49	-12.78	58.71	74	-15.29	peak	Horizontal
2483.6	54.36	-12.78	41.58	54	-12.42	AVG	Horizontal
π/4-DQPSK							
2399.9	71.56	-12.99	58.57	74	-15.43	peak	Vertical
2399.9	54.52	-12.99	41.53	54	-12.47	AVG	Vertical
2399.9	70.28	-12.99	57.29	74	-16.71	peak	Horizontal
2399.9	55.14	-12.99	42.15	54	-11.85	AVG	Horizontal
2483.6	71.58	-12.78	58.8	74	-15.2	peak	Vertical
2483.6	56.29	-12.78	43.51	54	-10.49	AVG	Vertical
2483.6	71.21	-12.78	58.43	74	-15.57	peak	Horizontal
2483.6	54.65	-12.78	41.87	54	-12.13	AVG	Horizontal
8DPSK							
2399.9	71.35	-12.99	58.36	74	-15.64	peak	Vertical
2399.9	55.53	-12.99	42.54	54	-11.46	AVG	Vertical
2399.9	70.56	-12.99	57.57	74	-16.43	peak	Horizontal
2399.9	56.27	-12.99	43.28	54	-10.72	AVG	Horizontal
2483.6	71.38	-12.78	58.6	74	-15.4	peak	Vertical
2483.6	55.18	-12.78	42.4	54	-11.6	AVG	Vertical
2483.6	71.52	-12.78	58.74	74	-15.26	peak	Horizontal
2483.6	54.56	-12.78	41.78	54	-12.22	AVG	Horizontal



Hopping

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	
GFSK							
2390	69.26	-12.99	56.27	74	-17.73	peak	Vertical
2390	55.26	-12.99	42.27	54	-11.73	AVG	Vertical
2390	68.55	-12.99	55.56	74	-18.44	peak	Horizontal
2390	54.28	-12.99	41.29	54	-12.71	AVG	Horizontal
2483.5	67.49	-12.78	54.71	74	-19.29	peak	Vertical
2483.5	55.26	-12.78	42.48	54	-11.52	AVG	Vertical
2483.5	68.28	-12.78	55.5	74	-18.5	peak	Horizontal
2483.5	55.51	-12.78	42.73	54	-11.27	AVG	Horizontal
π/4-DQPSK							
2390	69.45	-12.99	56.46	74	-17.54	peak	Vertical
2390	56.58	-12.99	43.59	54	-10.41	AVG	Vertical
2390	68.77	-12.99	55.78	74	-18.22	peak	Horizontal
2390	54.75	-12.99	41.76	54	-12.24	AVG	Horizontal
2483.5	68.14	-12.78	55.36	74	-18.64	peak	Vertical
2483.5	54.75	-12.78	41.97	54	-12.03	AVG	Vertical
2483.5	69.12	-12.78	56.34	74	-17.66	peak	Horizontal
2483.5	55.78	-12.78	43	54	-11	AVG	Horizontal
8DPSK							
2390	69.56	-12.99	56.57	74	-17.43	peak	Vertical
2390	55.32	-12.99	42.33	54	-11.67	AVG	Vertical
2390	68.25	-12.99	55.26	74	-18.74	peak	Horizontal
2390	55.34	-12.99	42.35	54	-11.65	AVG	Horizontal
2483.5	69.56	-12.78	56.78	74	-17.22	peak	Vertical
2483.5	55.64	-12.78	42.86	54	-11.14	AVG	Vertical
2483.5	68.43	-12.78	55.65	74	-18.35	peak	Horizontal
2483.5	55.45	-12.78	42.67	54	-11.33	AVG	Horizontal

4. CONDUCTED SPURIOUS EMISSIONS

4.1 REQUIREMENT

According to FCC section 15.247(d), in any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

4.2 TEST PROCEDURE

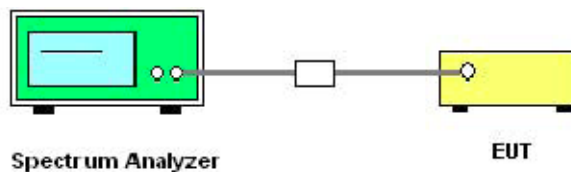
According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

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: 2310 – 2404 MHz Upper Band Edge: 2478 – 2500 MHz
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

4.3 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.

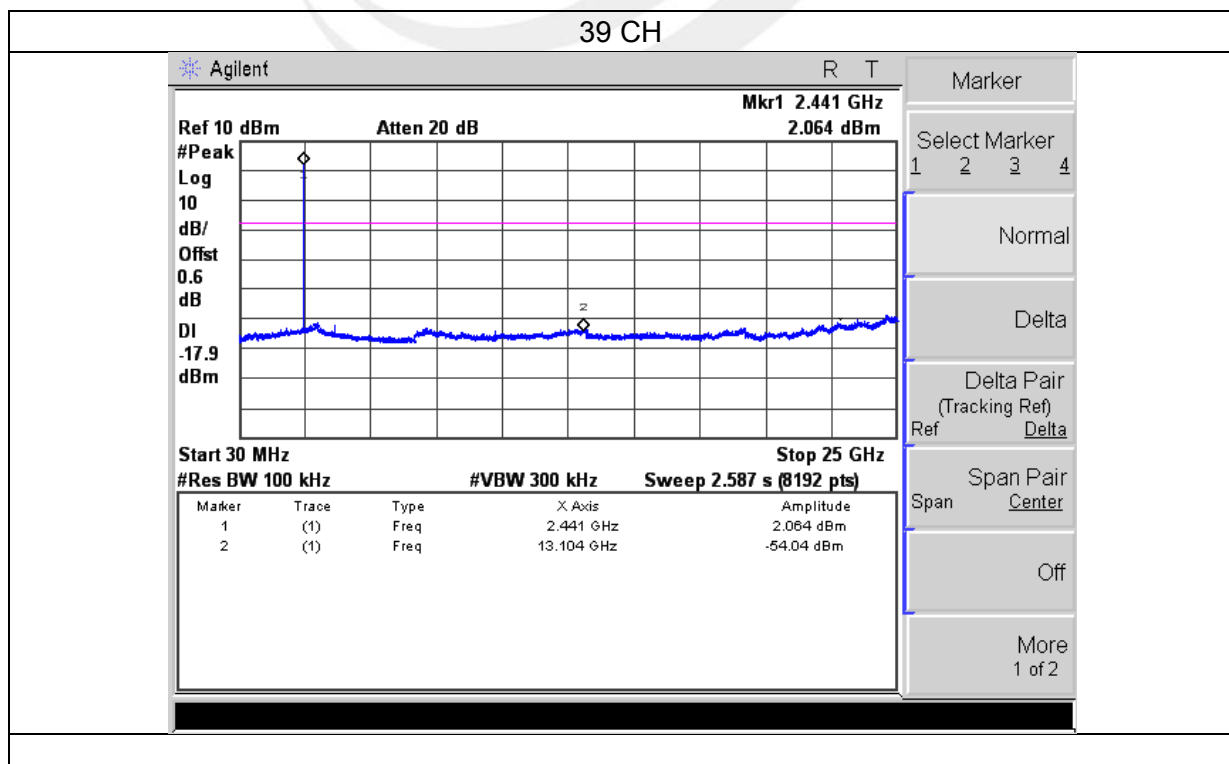
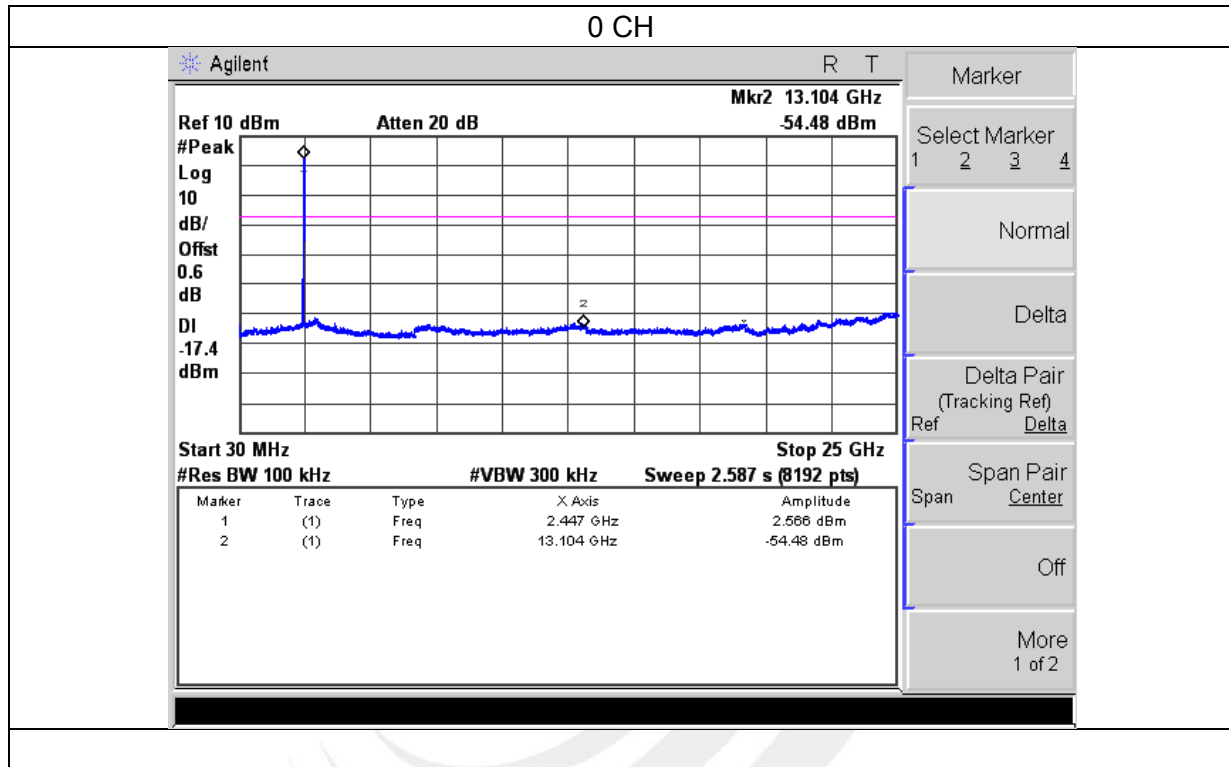
4.4 EUT OPERATION CONDITIONS

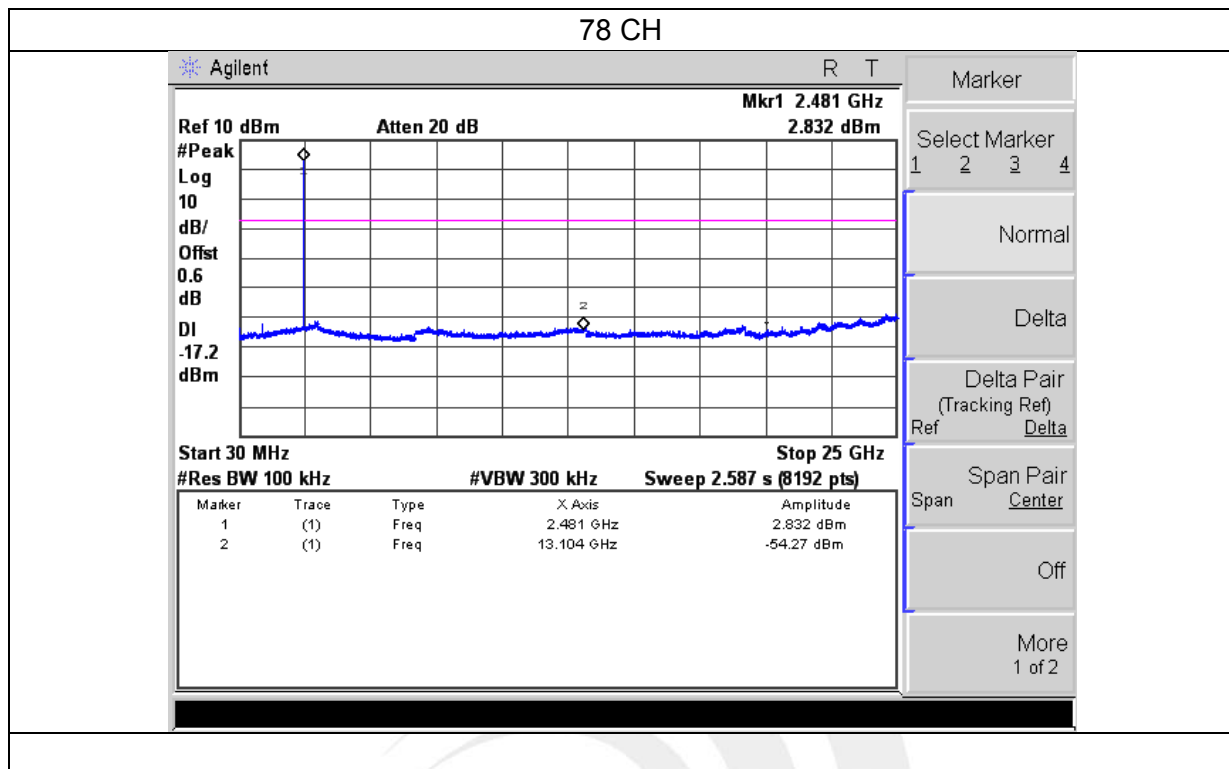
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



4.5 TEST RESULTS

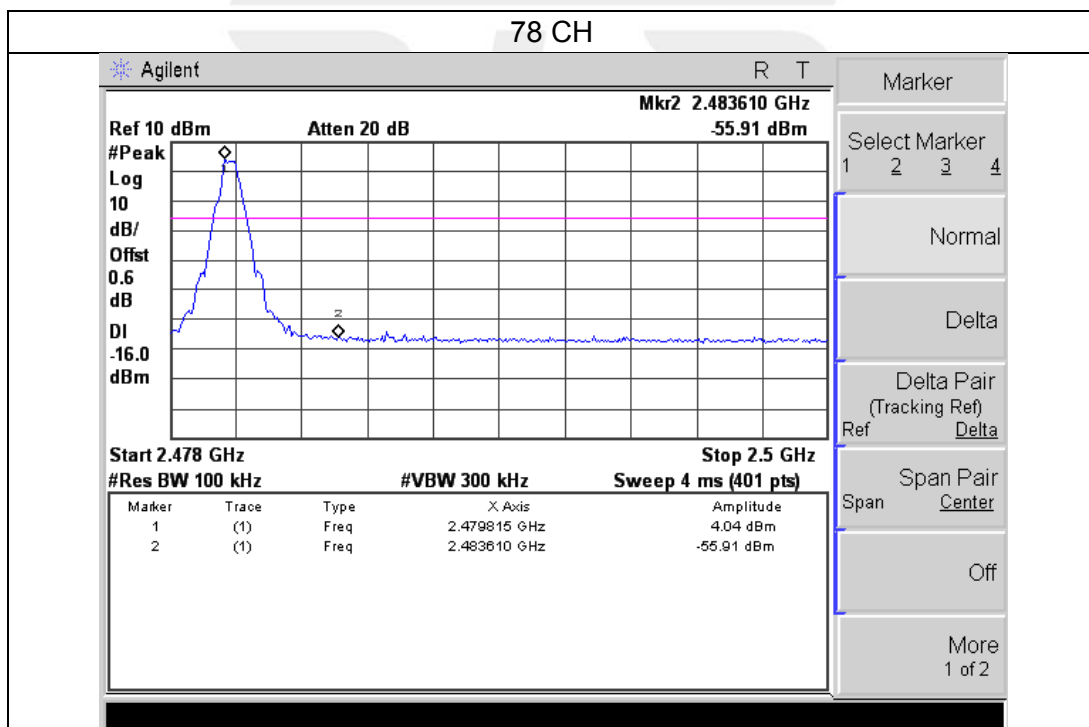
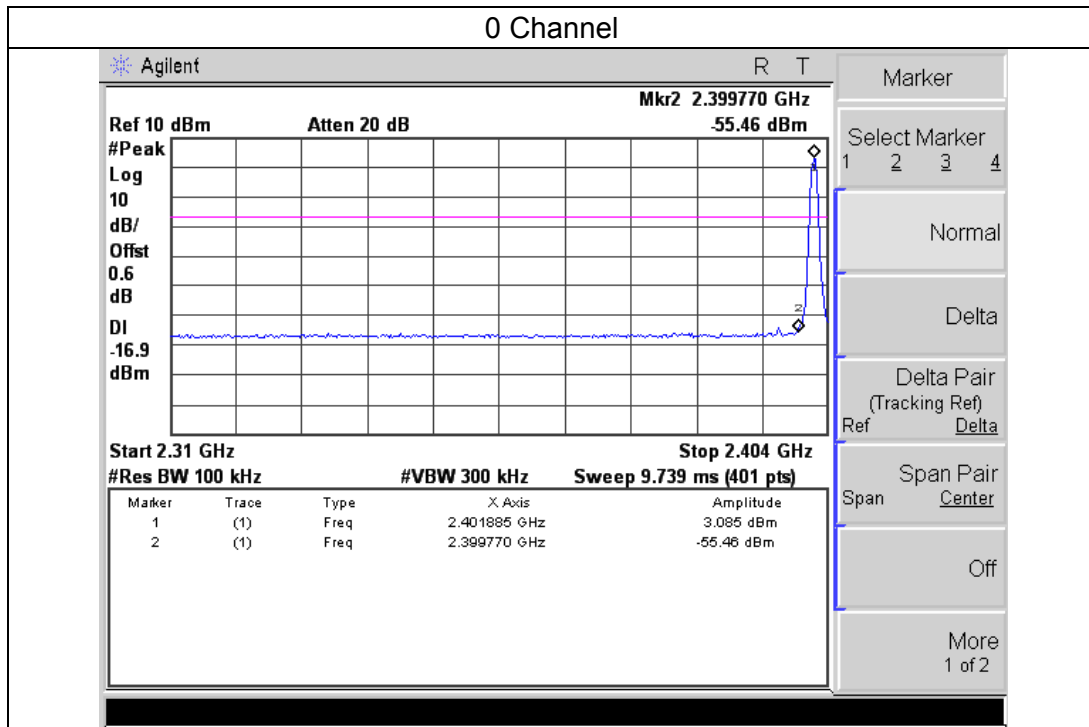
EUT :	Revel Pro	Model Name :	X510A
Temperature :	25 °C	Relative Humidity :	50%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	GFSK(1Mbps)-00/39/78 CH		





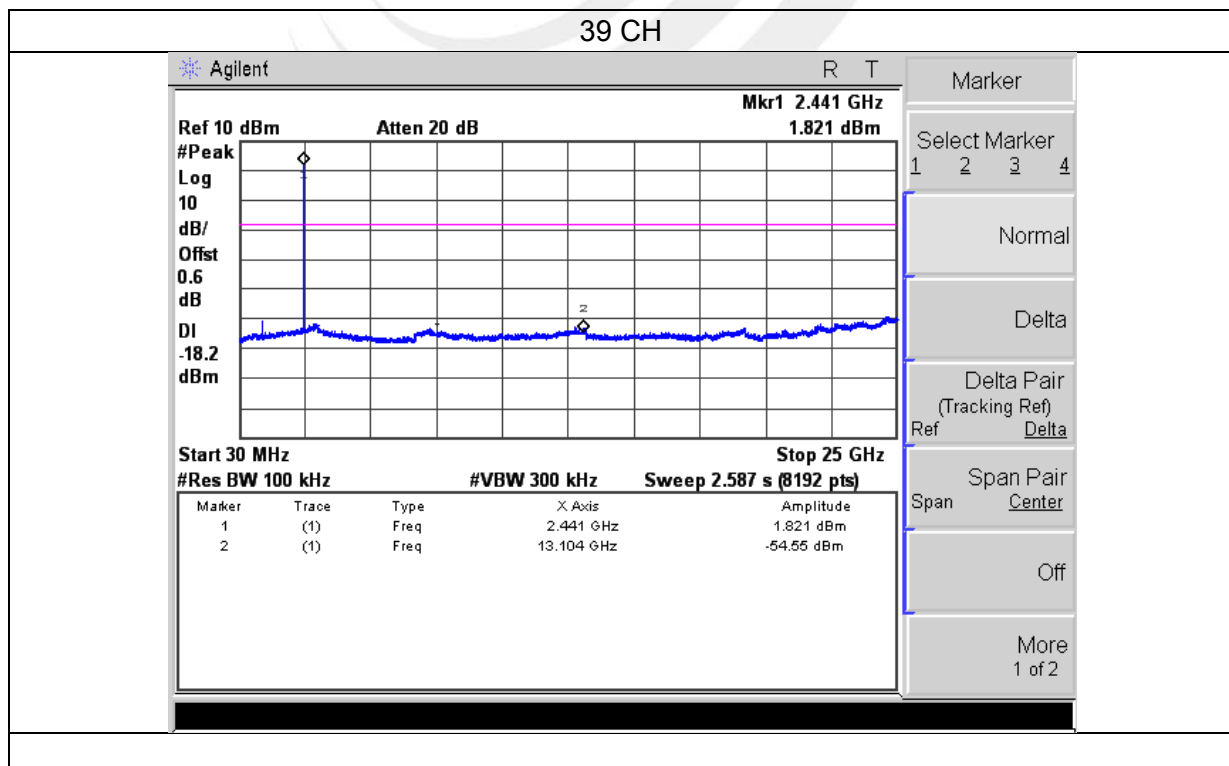
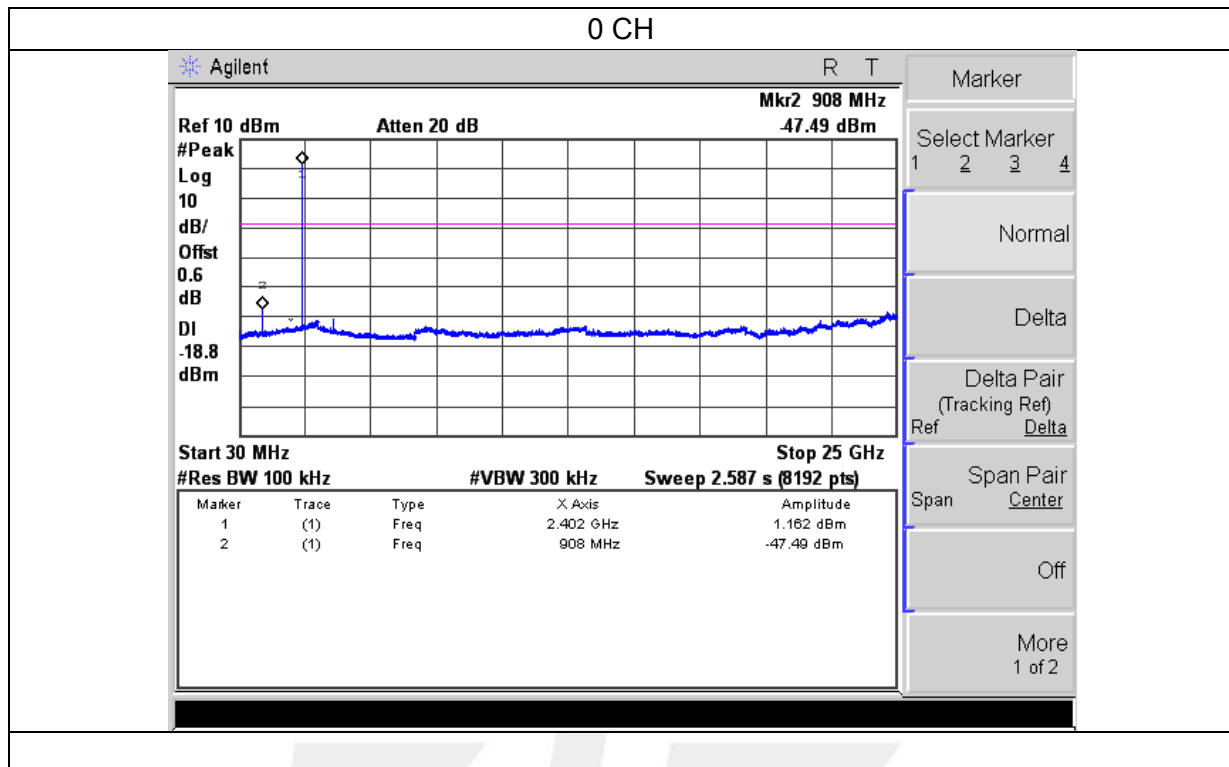


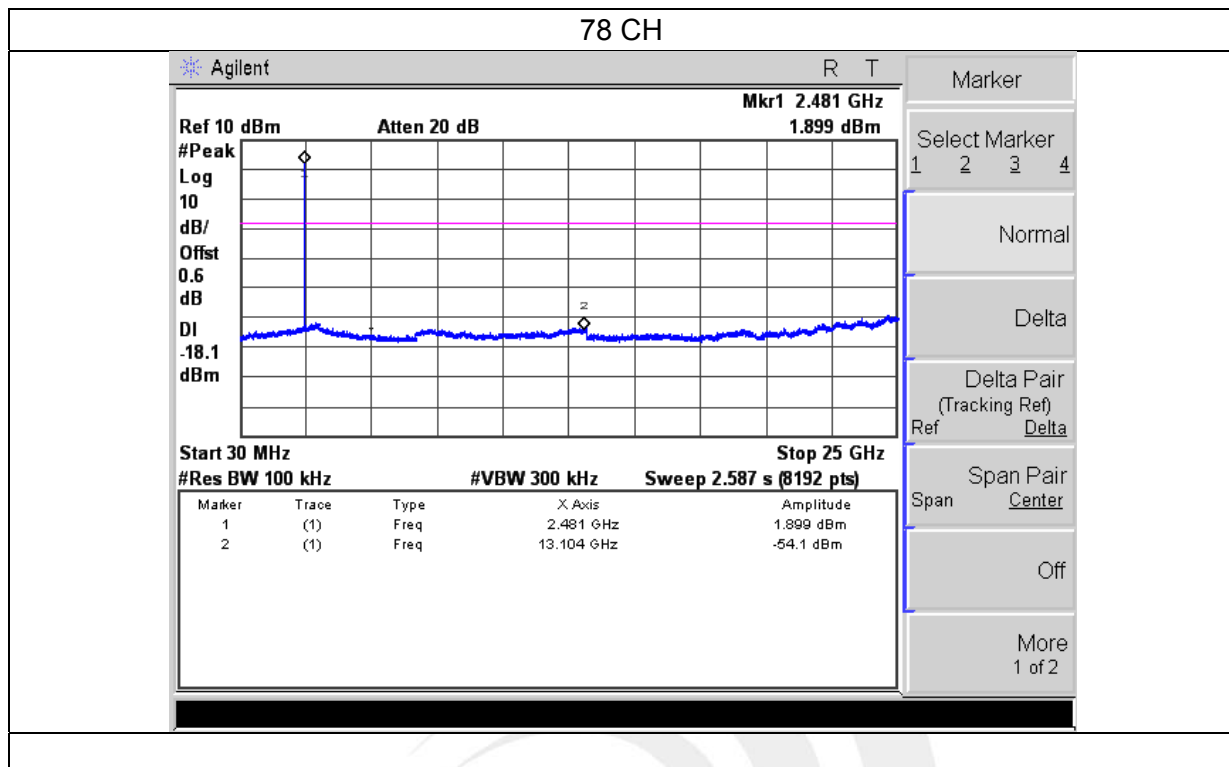
For Band edge





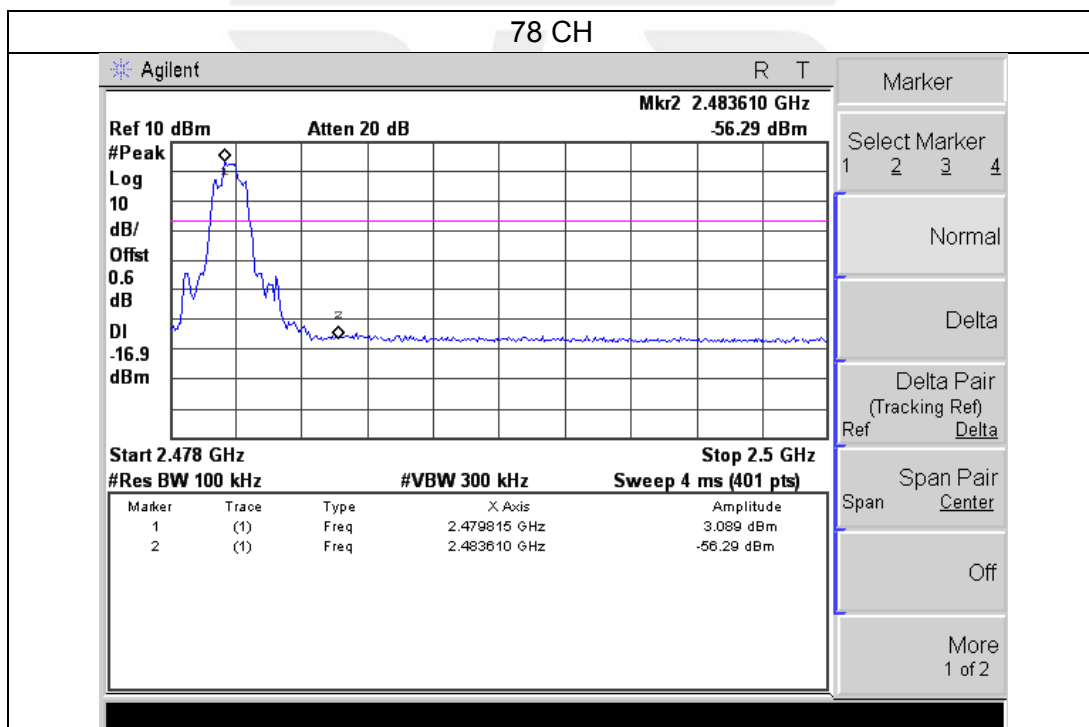
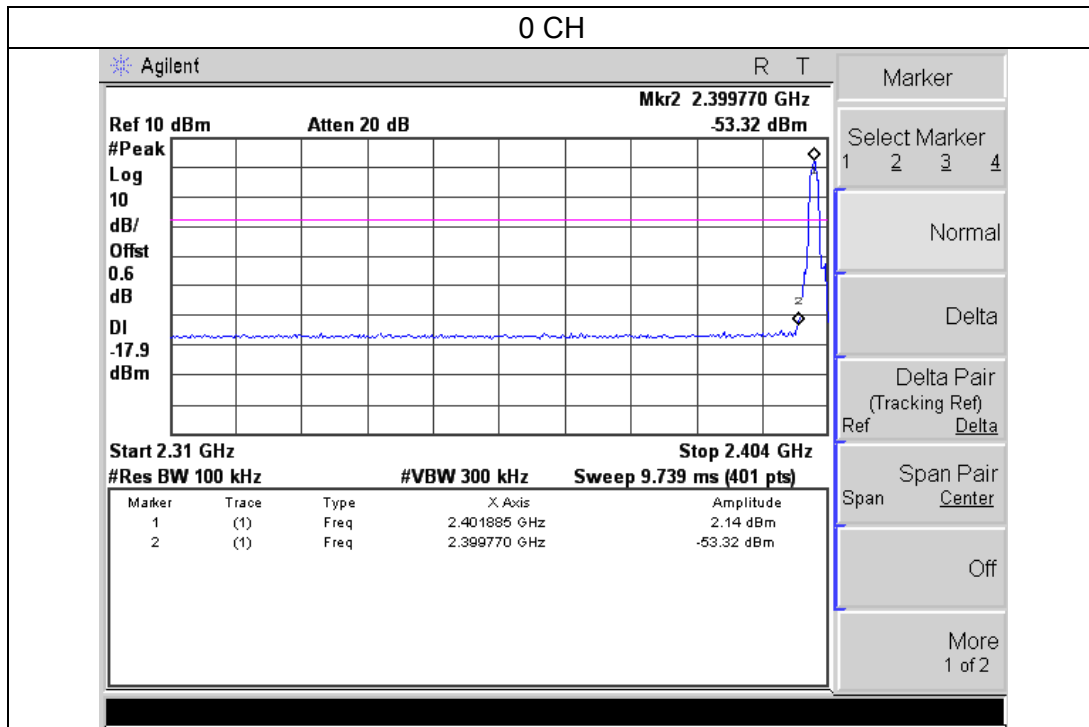
EUT :	Revel Pro	Model Name :	X510A
Temperature :	25 °C	Relative Humidity :	50%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	$\pi/4$ -DQPSK(2Mbps) -00/39/78 CH		





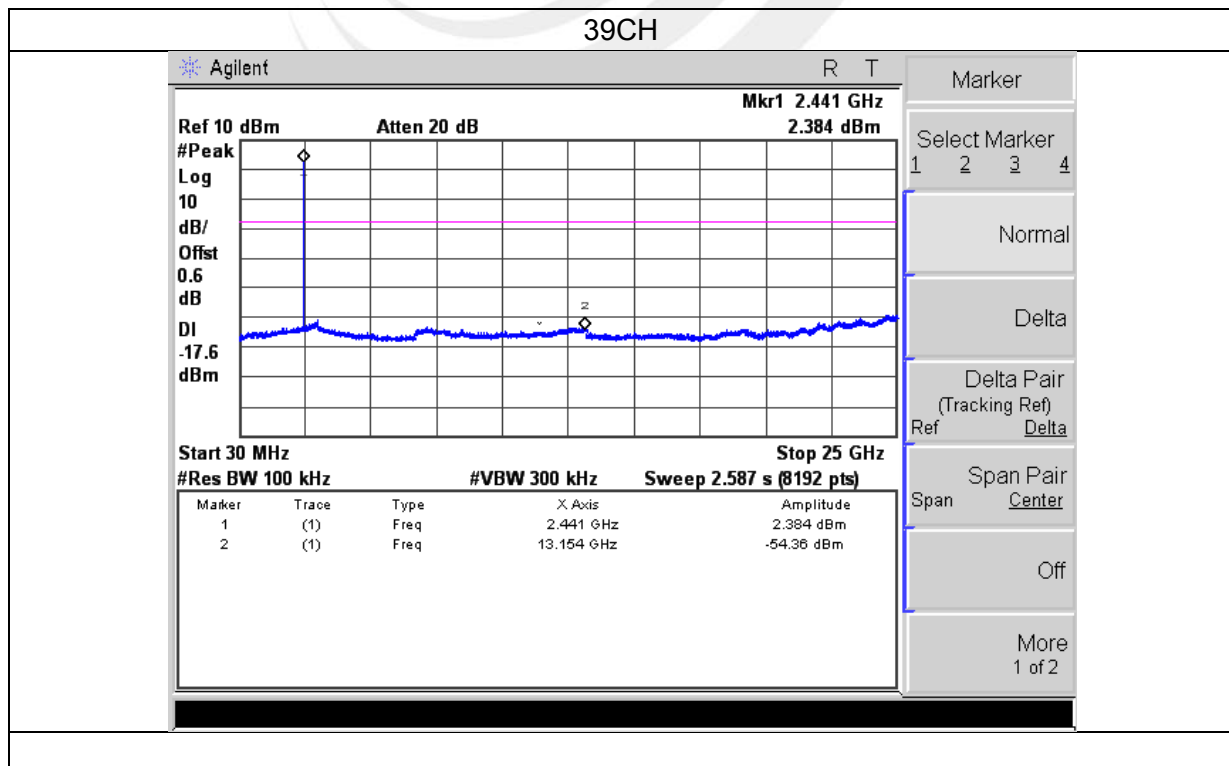
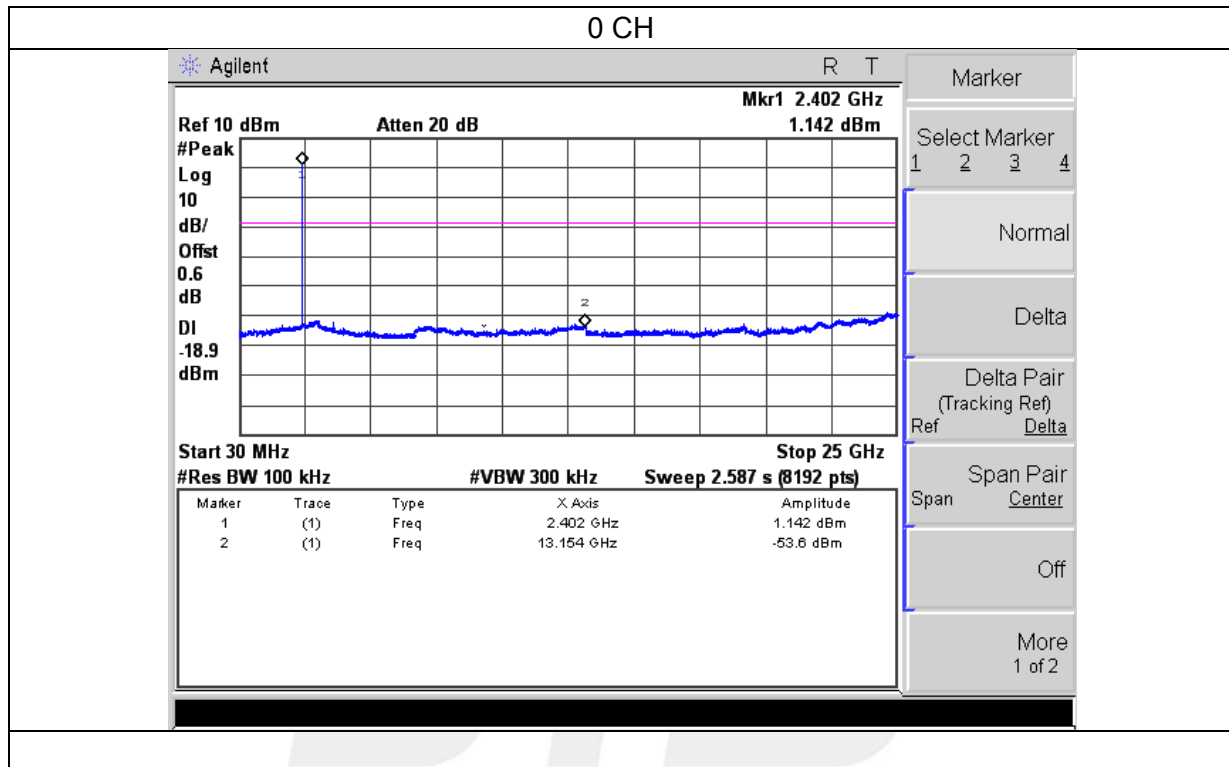


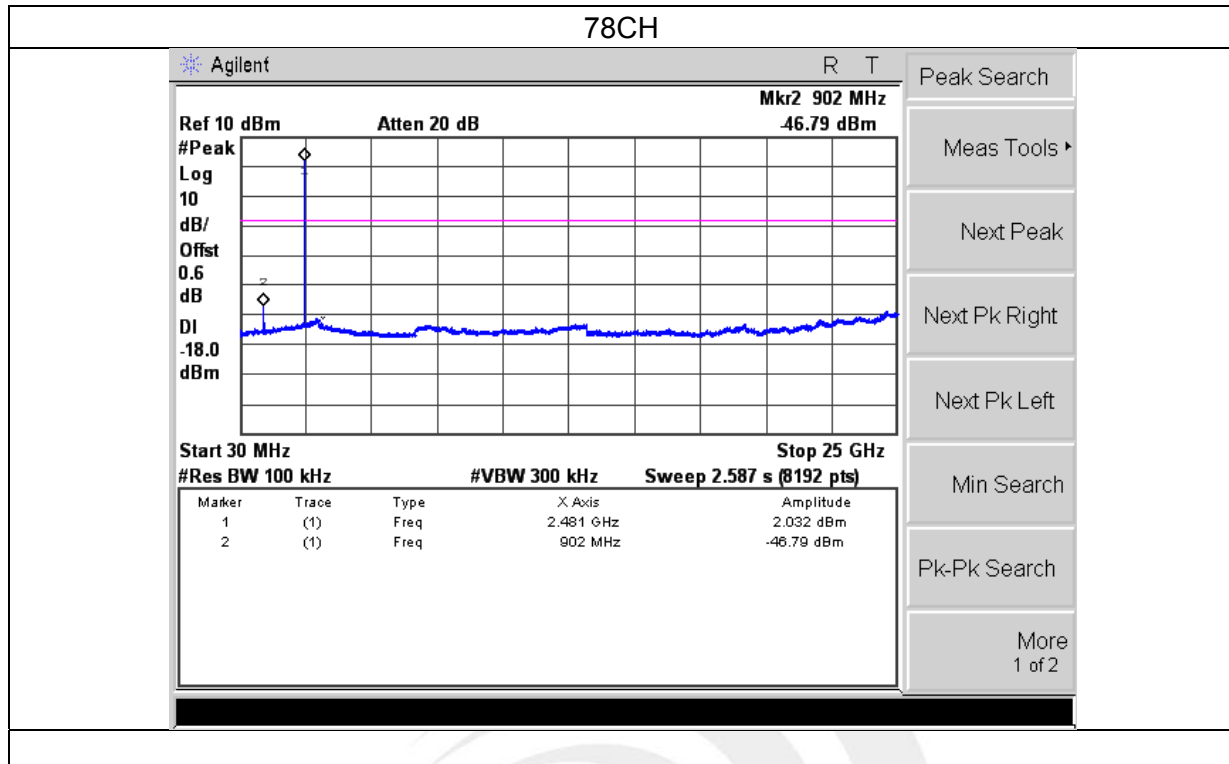
Band edge





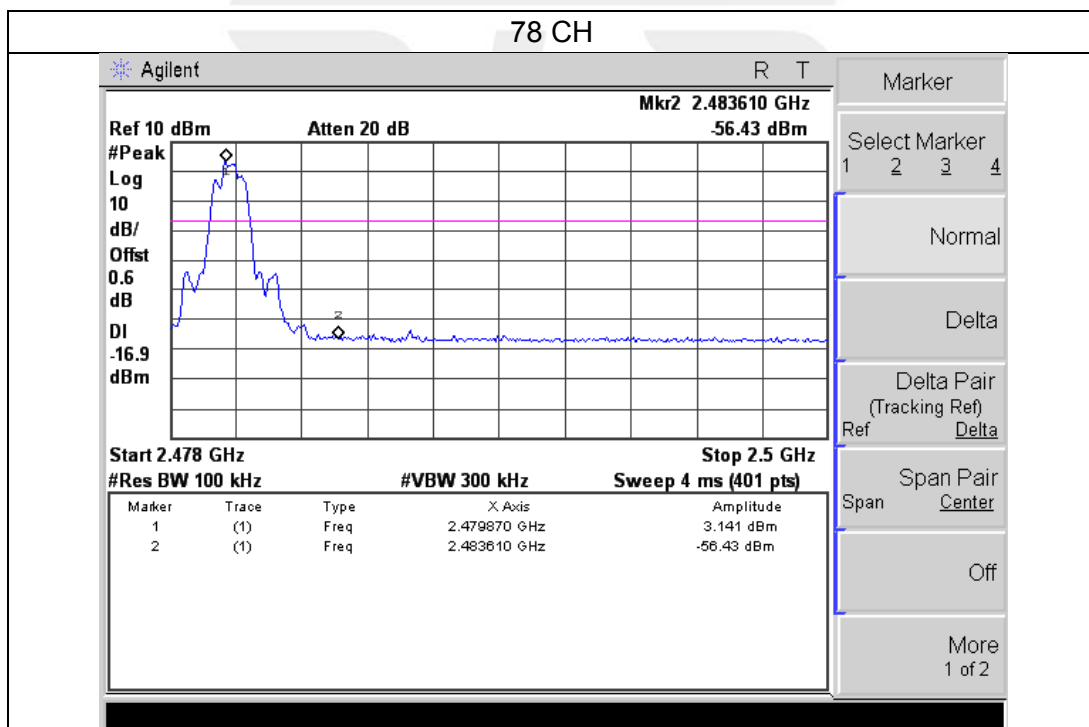
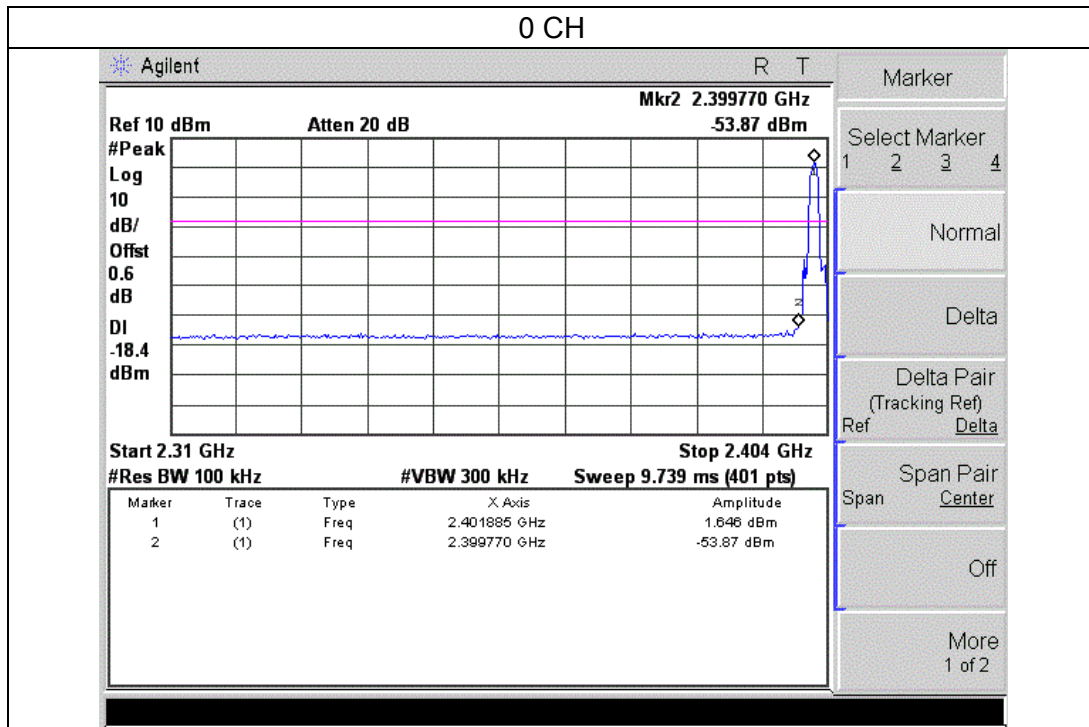
EUT:	Revel Pro	Model Name :	X510A
Temperature :	25 °C	Relative Humidity :	50%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	8-DPSK(3Mbps) -00/39/78 CH		







For Band edge





5. NUMBER OF HOPPING CHANNEL

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)(iii)	Number of Hopping Channel	≥15	2400-2483.5	PASS

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Operating Frequency Range
RB	100 KHz
VB	100 KHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.2 TEST PROCEDURE

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

5.3 TEST SETUP



5.4 EUT OPERATION CONDITIONS

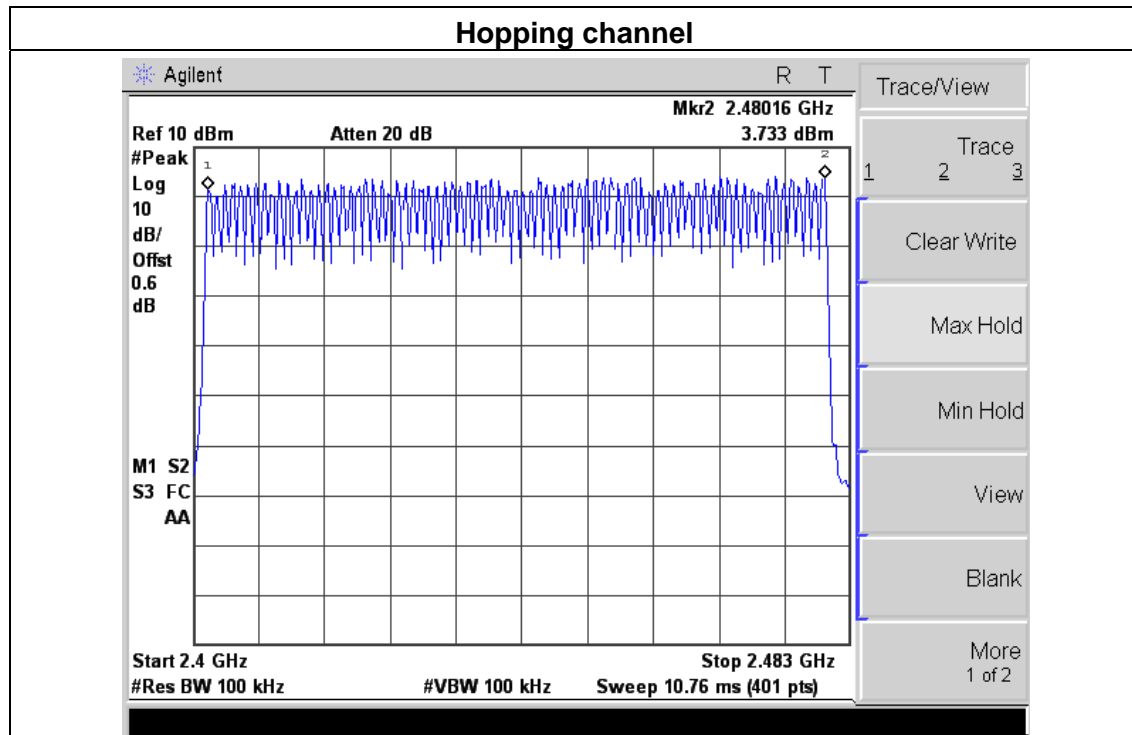
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



5.5 TEST RESULTS

EUT :	Revel Pro	Model Name :	X510A
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.8V
Test Mode :	Hopping Mode		

Number of Hopping Channel	79
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6. AVERAGE TIME OF OCCUPANCY

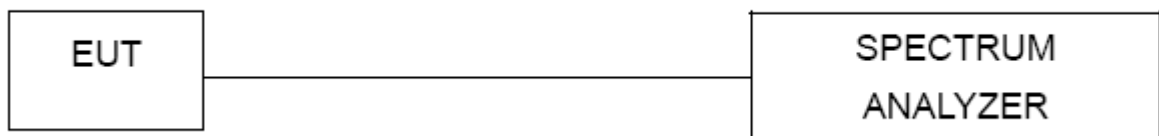
6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)(iii)	Average Time of Occupancy	0.4sec	2400-2483.5	PASS

6.2 TEST PROCEDURE

- The transmitter output (antenna port) was connected to the spectrum analyzer
- Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
- Use a video trigger with the trigger level set to enable triggering only on full pulses.
- Sweep Time is more than once pulse time.
Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- Measure the maximum time duration of one single pulse.
- Set the EUT for DH5, DH3 and DH1 packet transmitting.
- Measure the maximum time duration of one single pulse.
- DH5 Packet permit maximum $1600 / 79 / 6 = 3.37$ hops per second in each channel (5 time slots RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times $3.37 \times 31.6 = 106.6$ within 31.6 seconds.
- DH3 Packet permit maximum $1600 / 79 / 4 = 5.06$ hops per second in each channel (3 time slots RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times $5.06 \times 31.6 = 160$ within 31.6 seconds.
- DH1 Packet permit maximum $1600 / 79 / 2 = 10.12$ hops per second in each channel (1 time slot RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times $10.12 \times 31.6 = 320$ within 31.6 seconds.

6.3 TEST SETUP



6.4 EUT OPERATION CONDITIONS

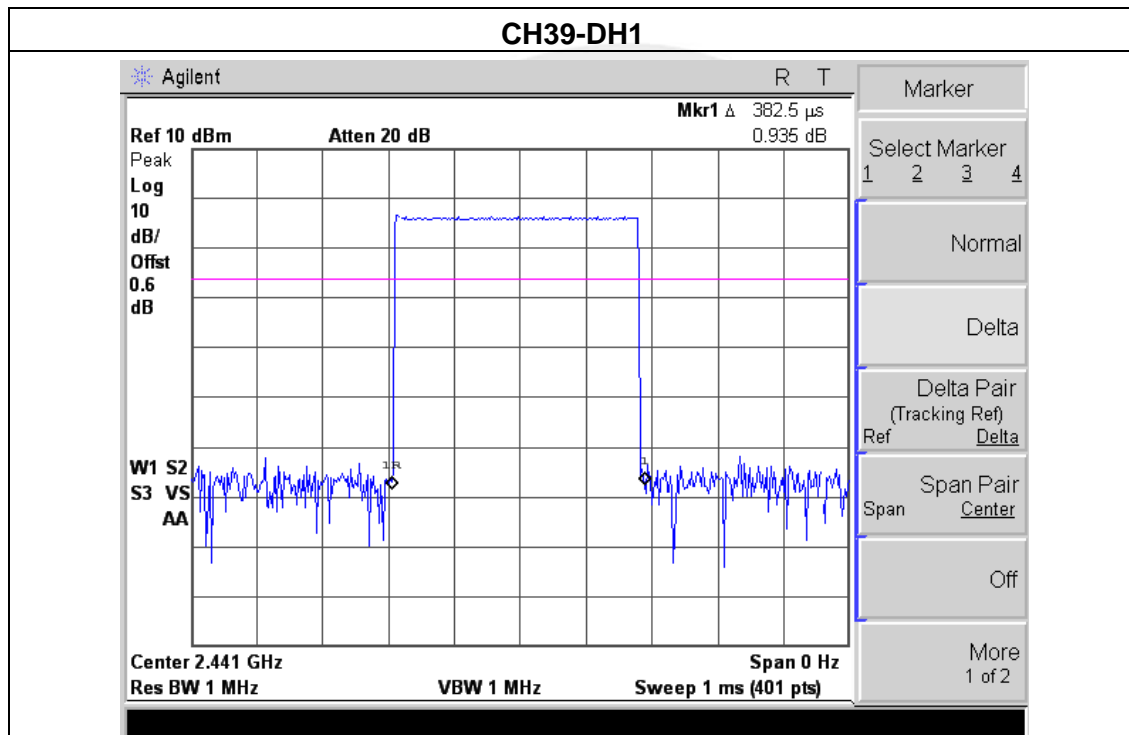
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



6.5 TEST RESULTS

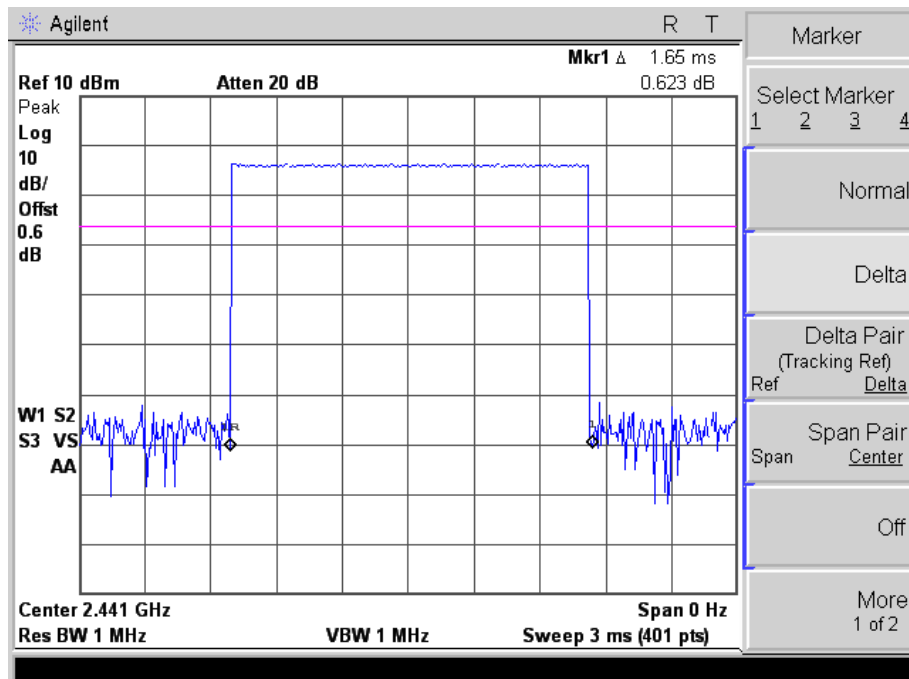
EUT :	Revel Pro	Model Name :	X510A
Temperature :	25 °C	Relative Humidity :	50%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	GFSK(1Mbps)-DH1/DH3/DH5		

Data Packet	Frequency	Pulse Duration	Dwell Time	Limits
		(ms)	(s)	(s)
DH1	2441 MHz	0.3825	0.12	0.4
DH3	2441 MHz	1.6500	0.26	0.4
DH5	2441 MHz	2.9000	0.31	0.4

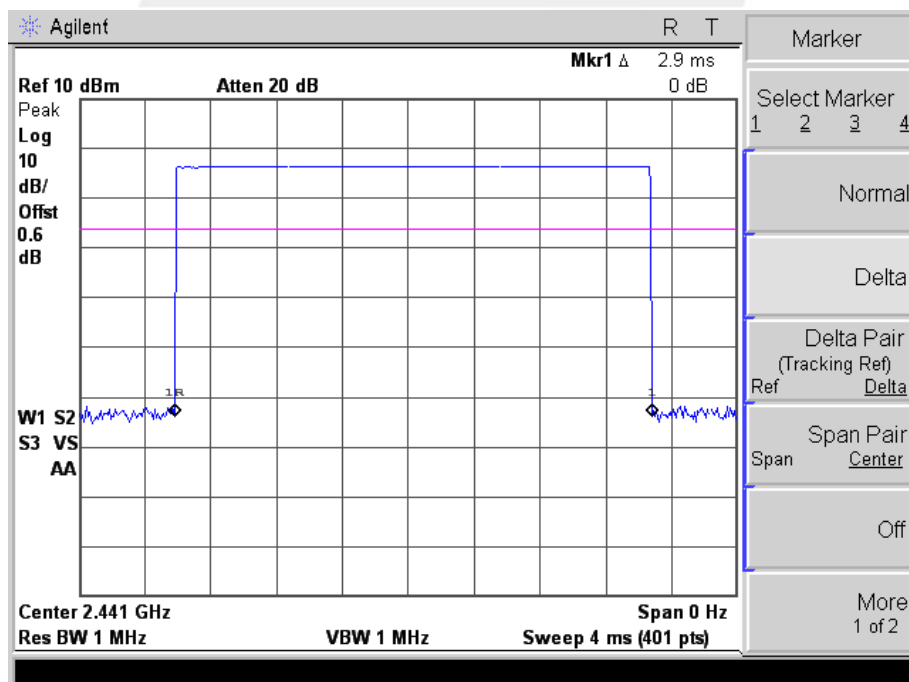




CH39-DH3



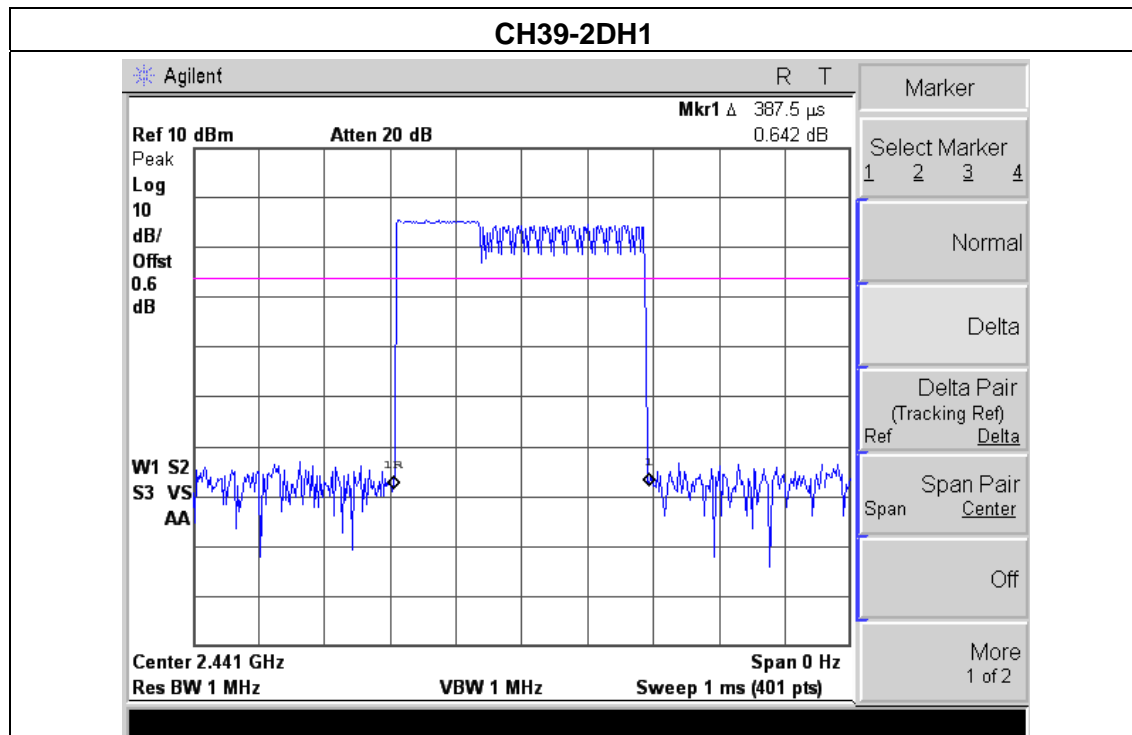
CH39-DH5





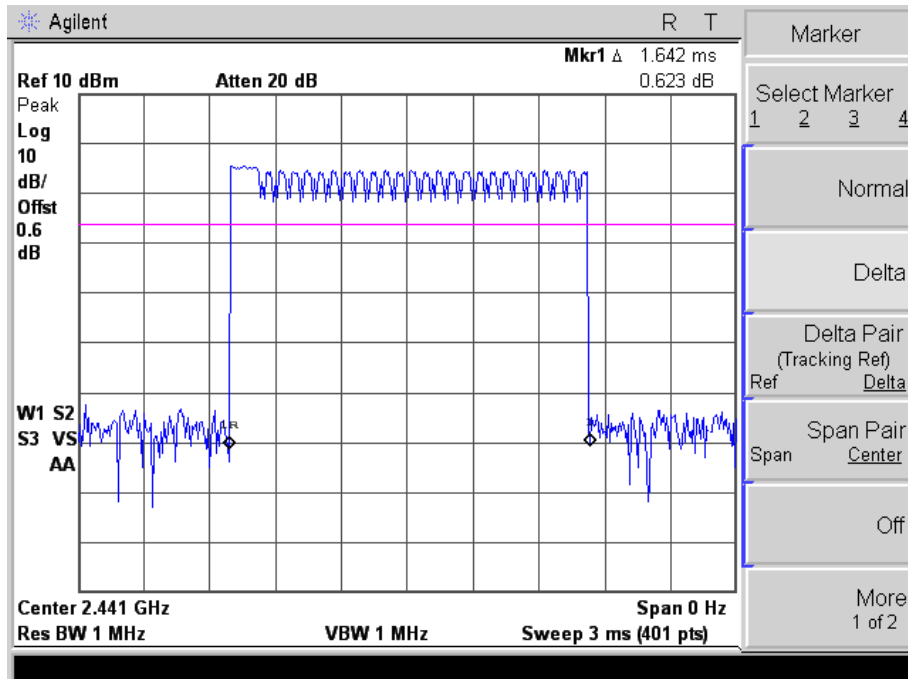
EUT :	Revel Pro	Model Name :	X510A
Temperature :	25 °C	Relative Humidity :	50%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	$\pi/4$ -DQPSK(2Mbps) -2DH1/2DH3/2DH5		

Data Packet	Frequency	Pulse Duration	Dwell Time	Limits
		(ms)	(s)	(s)
2DH1	2441 MHz	0.3875	0.12	0.4
2DH3	2441 MHz	1.6420	0.26	0.4
2DH5	2441 MHz	2.9000	0.31	0.4

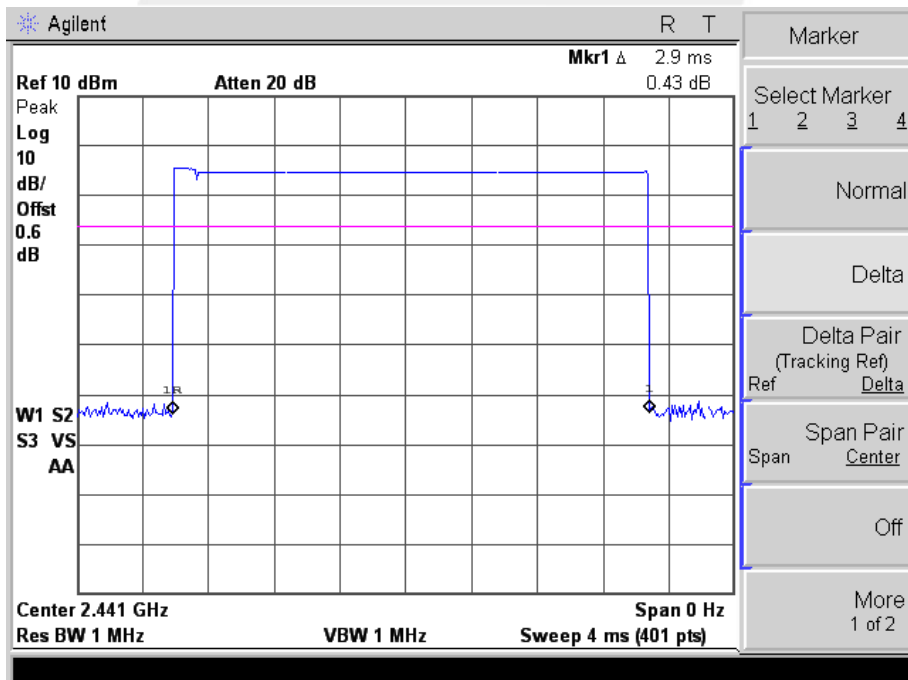




CH39-2DH3



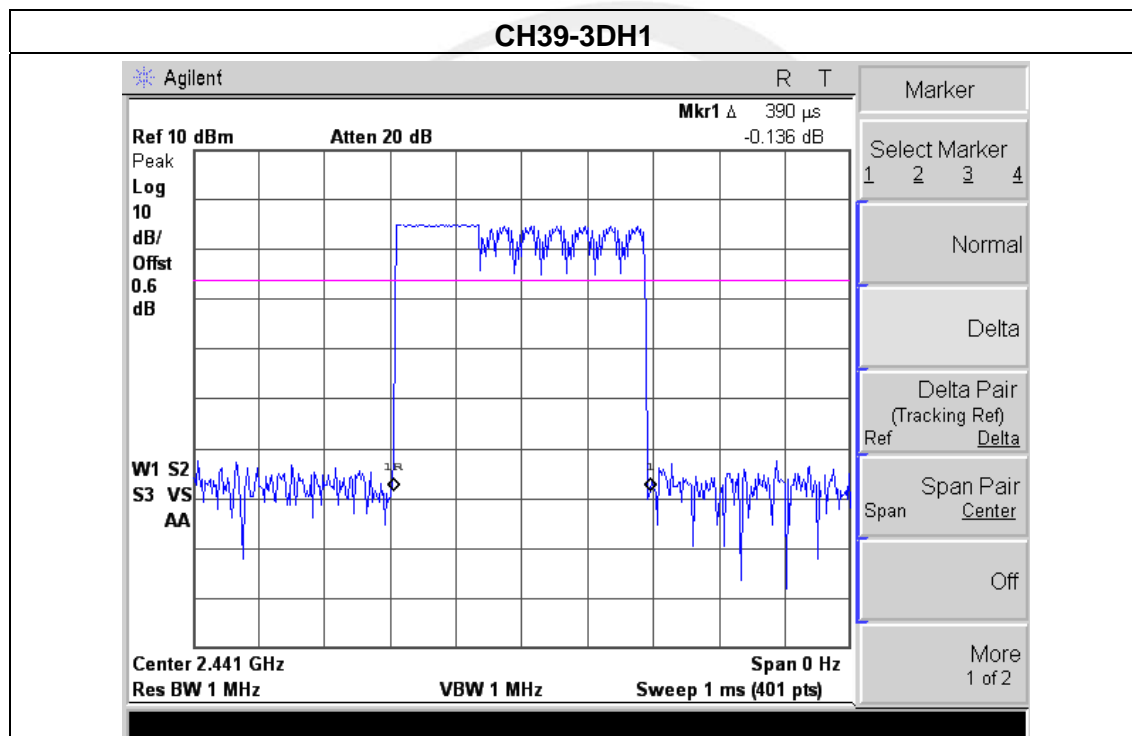
CH39-2DH5





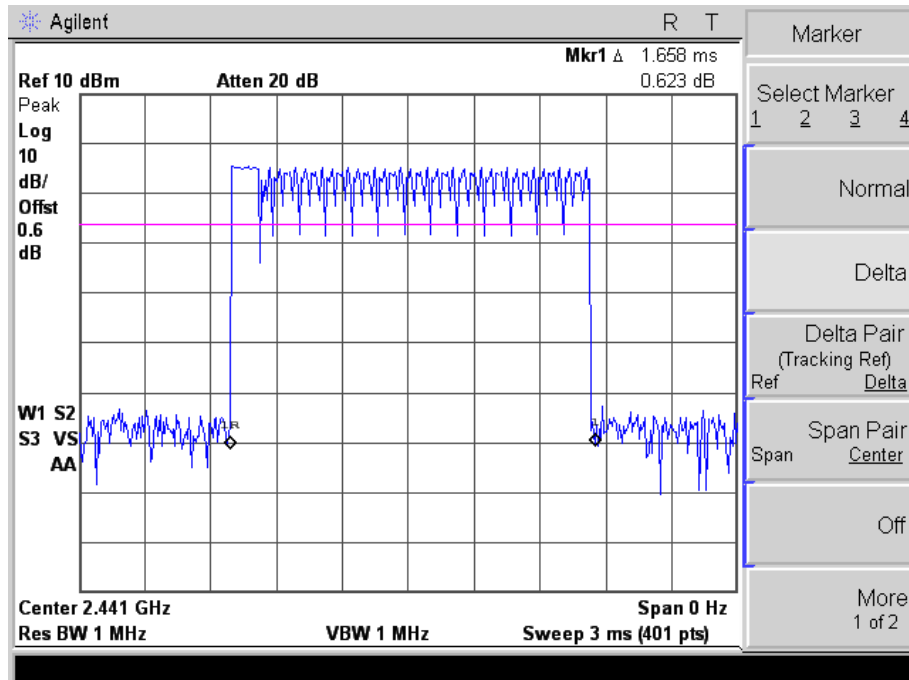
EUT :	Revel Pro	Model Name :	X510A
Temperature :	25 °C	Relative Humidity :	50%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	8DPSK(2Mbps) –3DH1/3DH3/3DH5		

Data Packet	Frequency	Pulse Duration	Dwell Time	Limits
		(ms)	(s)	(s)
3DH1	2441 MHz	0.3900	0.12	0.4
3DH3	2441 MHz	1.6580	0.27	0.4
3DH5	2441 MHz	2.9000	0.31	0.4

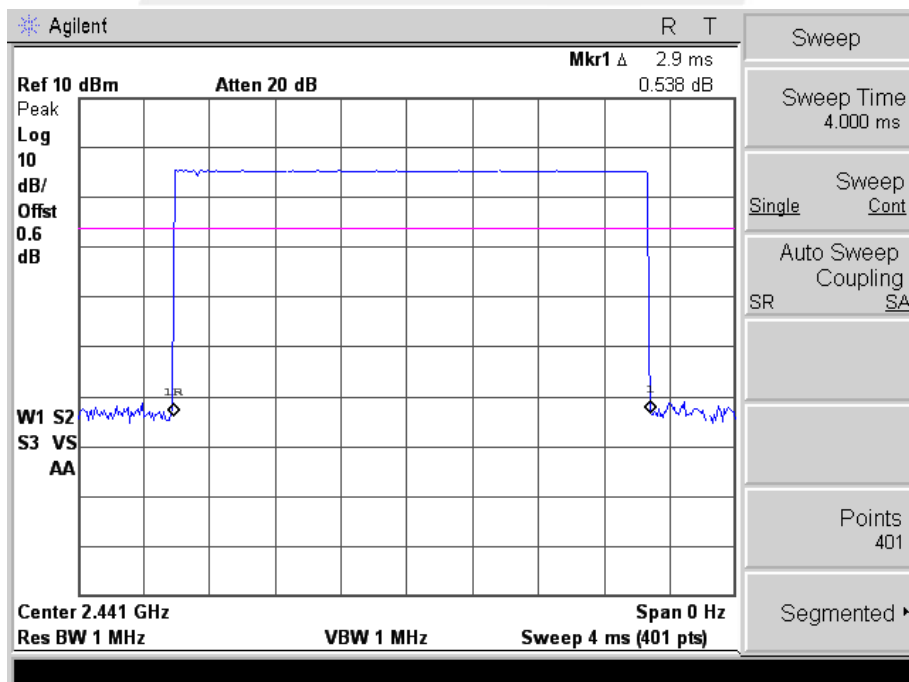




CH39-3DH3



CH39-3DH5



7. HOPPING CHANNEL SEPARATION MEASUREMENT

7.1 APPLIED PROCEDURES / LIMIT

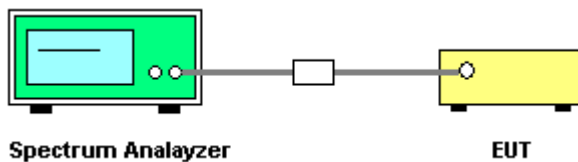
Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 20 dB bandwidth of the hopping channel, whichever is greater.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz (20dB Bandwidth) / 30 kHz (Channel Separation)
VB	100 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

7.2 TEST PROCEDURE

- The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- The resolution bandwidth of 30 kHz and the video bandwidth of 100 kHz were utilised for 20 dB bandwidth measurement.
- The resolution bandwidth of 30 kHz and the video bandwidth of 100 kHz were utilised for channel separation measurement.

7.3 TEST SETUP



7.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

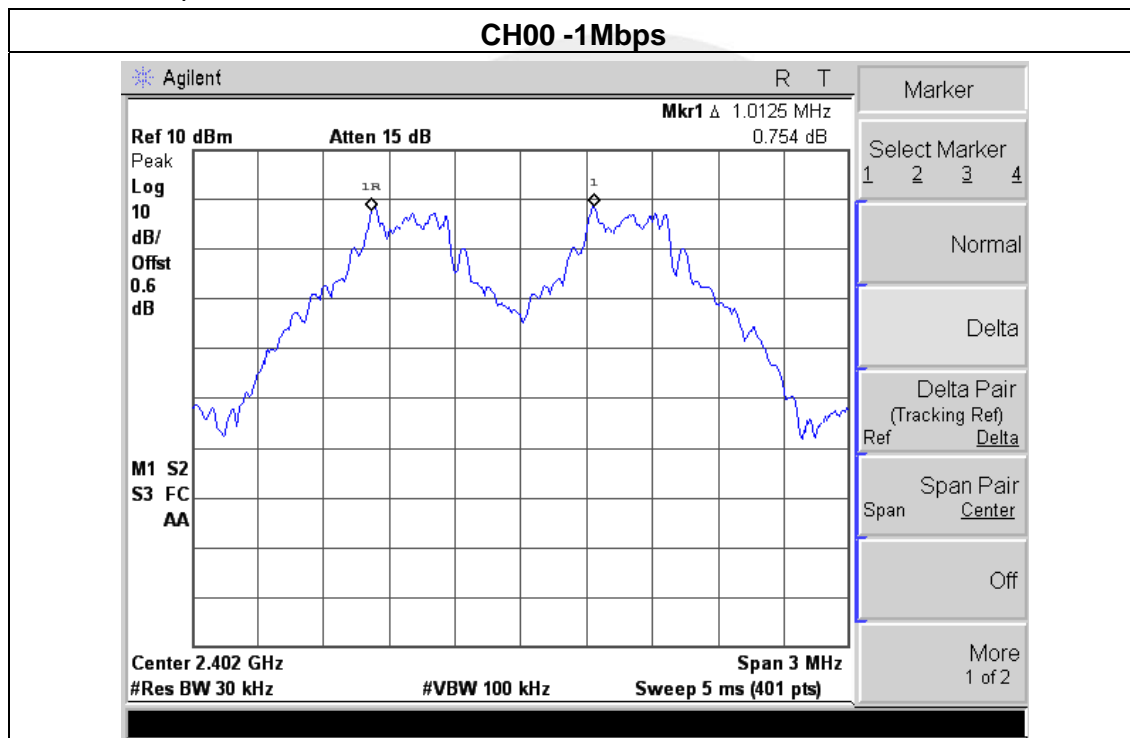


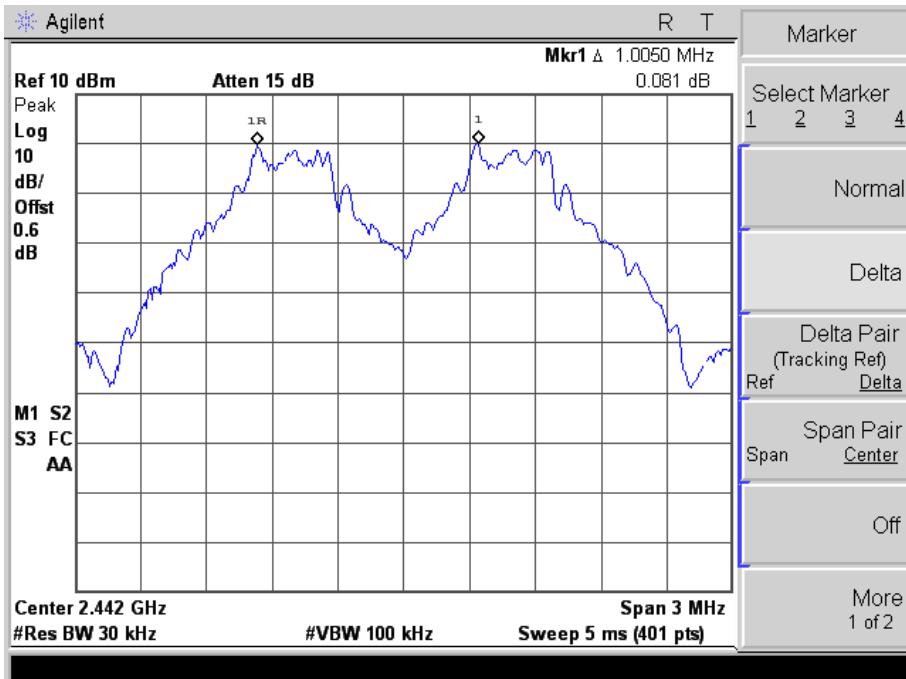
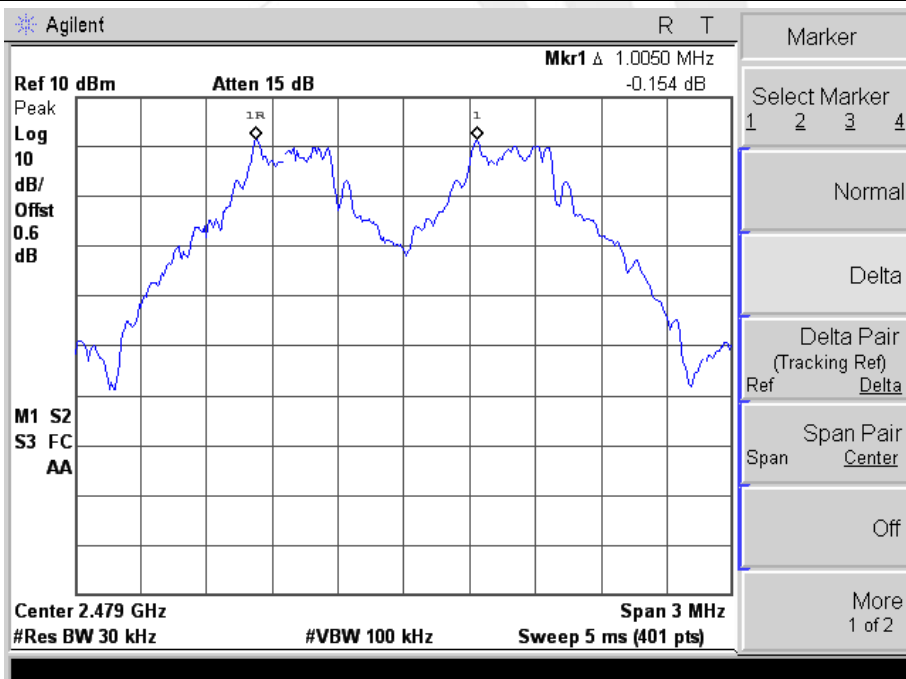
7.5 TEST RESULTS

EUT :	Revel Pro	Model Name :	X510A
Temperature :	25 °C	Relative Humidity :	50%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	CH00 / CH39 /CH78 (GFSK(1Mbps) Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.0125	Complies
2441 MHz	1.0050	Complies
2480 MHz	1.0050	Complies

For GFSK: Ch. Separation Limits: >20dB bandwidth



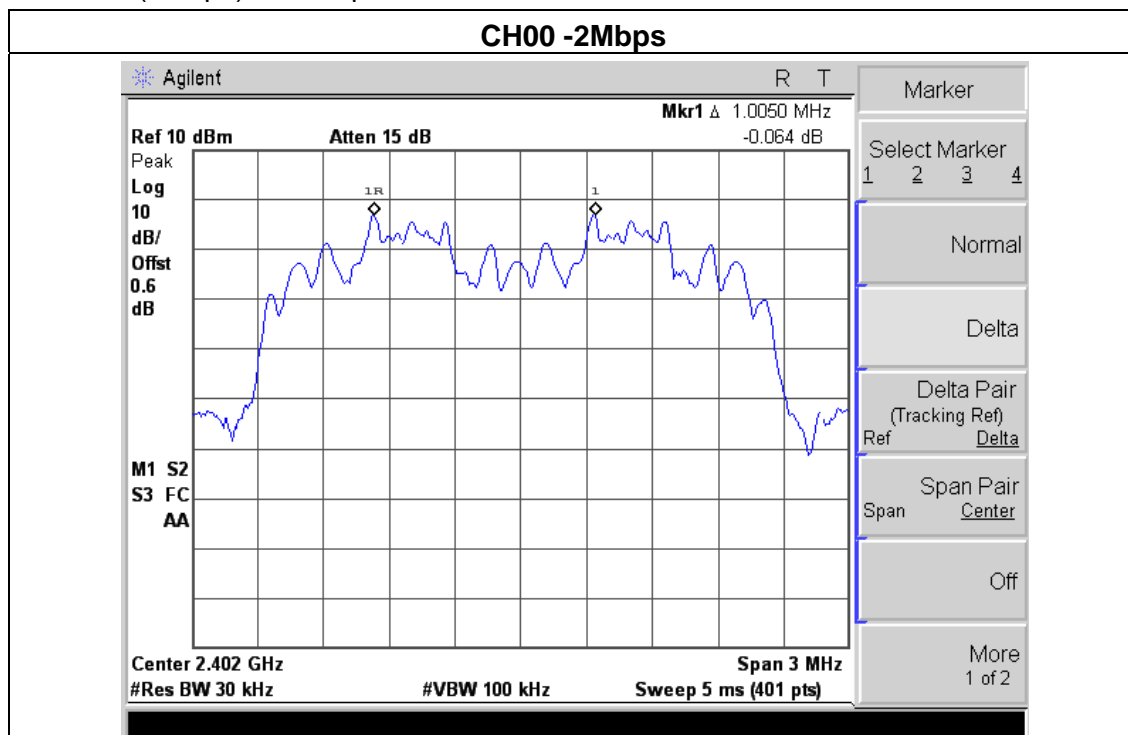
**CH39 -1Mbps****CH78 -1Mbps**



EUT :	Revel Pro	Model Name :	X510A
Temperature :	25 °C	Relative Humidity :	50%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	CH00 / CH39 /CH78 ($\pi/4$ -DQPSK(2Mbps) Mode)		

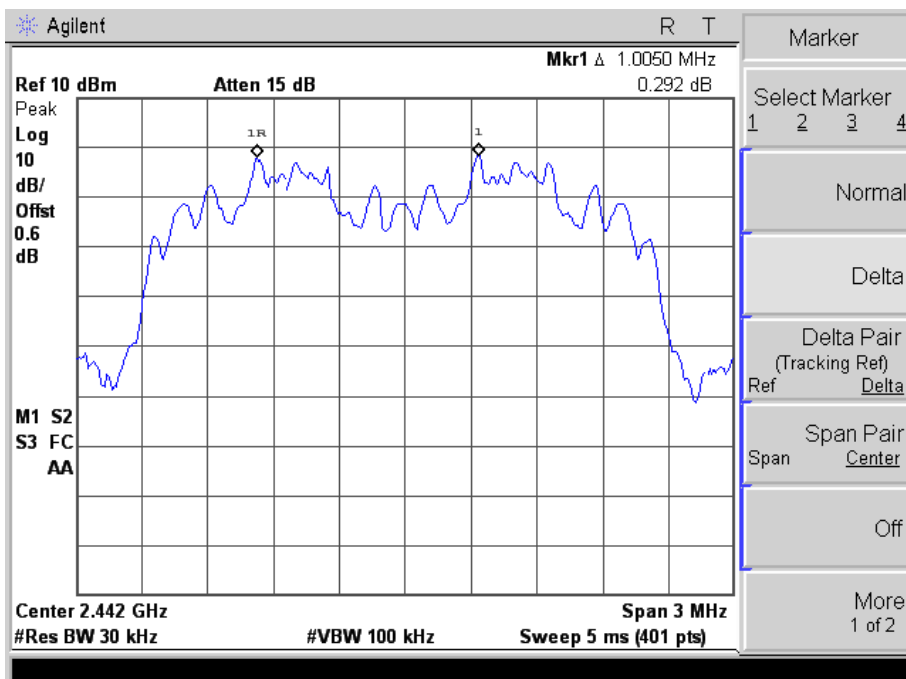
Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.0050	Complies
2441 MHz	1.0050	Complies
2480 MHz	1.0050	Complies

For $\pi/4$ -DQPSK(2Mbps): Ch. Separation Limits: > two-thirds 20dB bandwidth

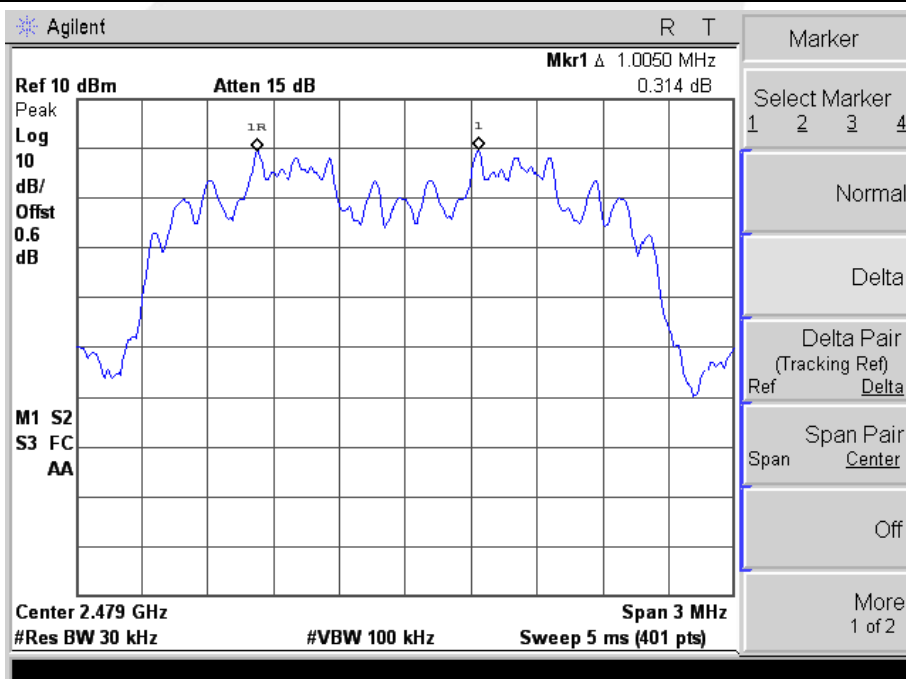




CH39 -2Mbps



CH78 -2Mbps



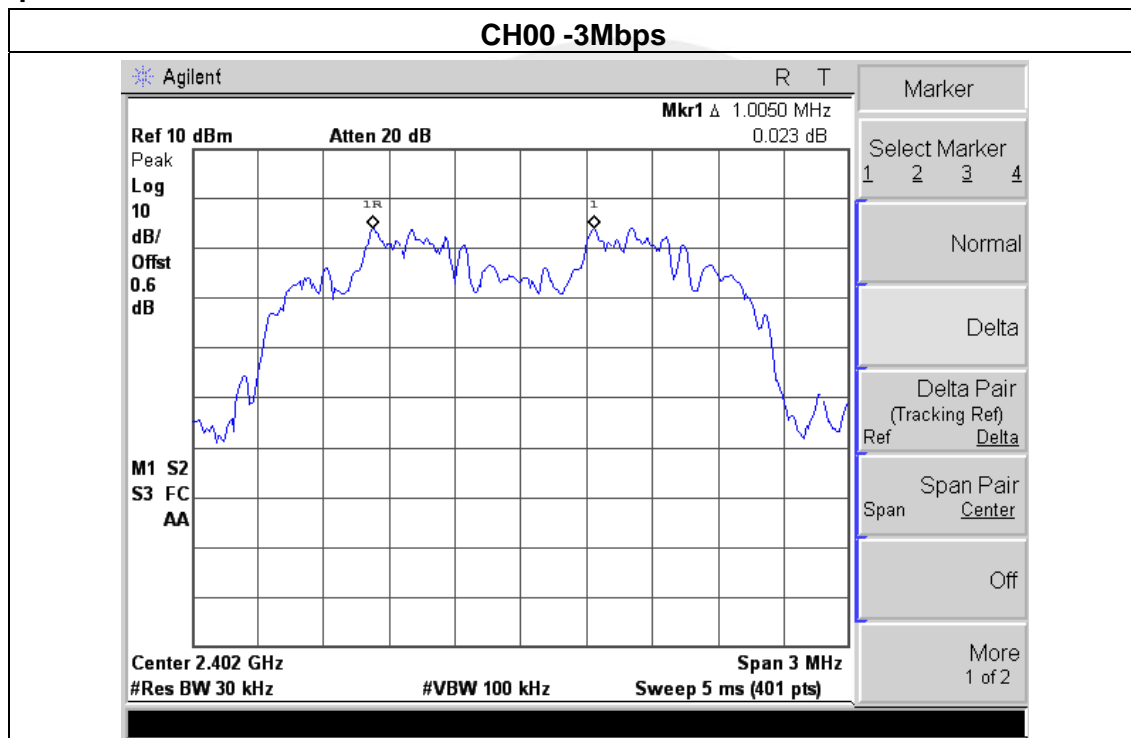


EUT :	Revel Pro	Model Name :	X510A
Temperature :	25 °C	Relative Humidity :	50%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	CH00 / CH39 /CH78 (8-DPSK(3Mbps)Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.0050	Complies
2441 MHz	1.0050	Complies
2480 MHz	1.0050	Complies

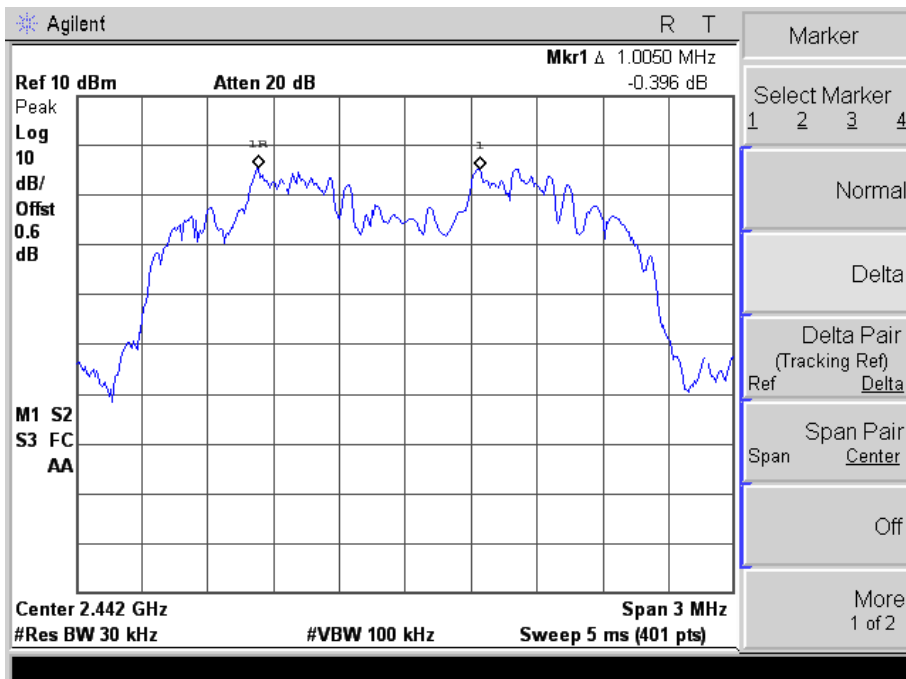
For 8-DPSK(3Mbps):

Ch. Separation Limits: > two-thirds 20dB bandwidth

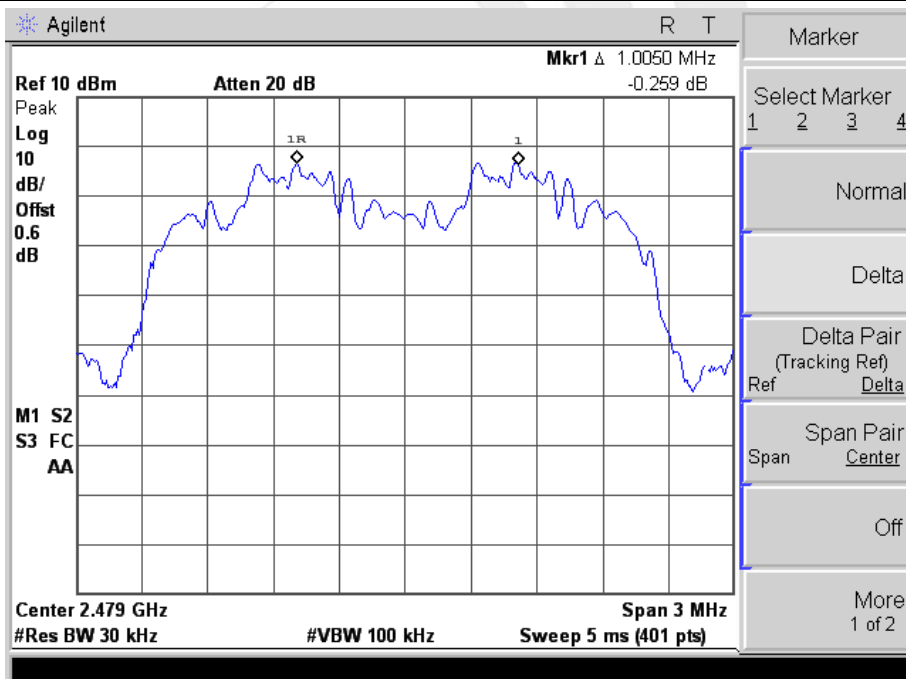




CH39 -3Mbps



CH78 -3Mbps





8. BANDWIDTH TEST

8.1 APPLIED PROCEDURES / LIMIT

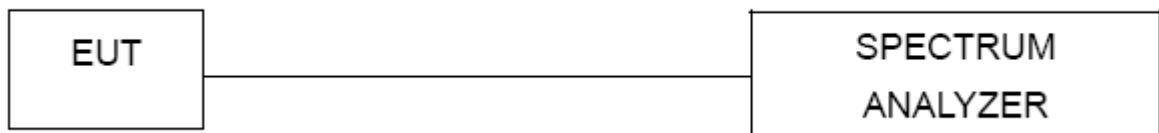
FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)	Bandwidth	(20dB bandwidth)	2400-2483.5	PASS

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz (20dB Bandwidth) / 30 kHz (Channel Separation)
VB	100 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

8.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting : RBW= 30KHz, VBW=100KHz, Sweep time = Auto.

8.3 TEST SETUP



8.4 EUT OPERATION CONDITIONS

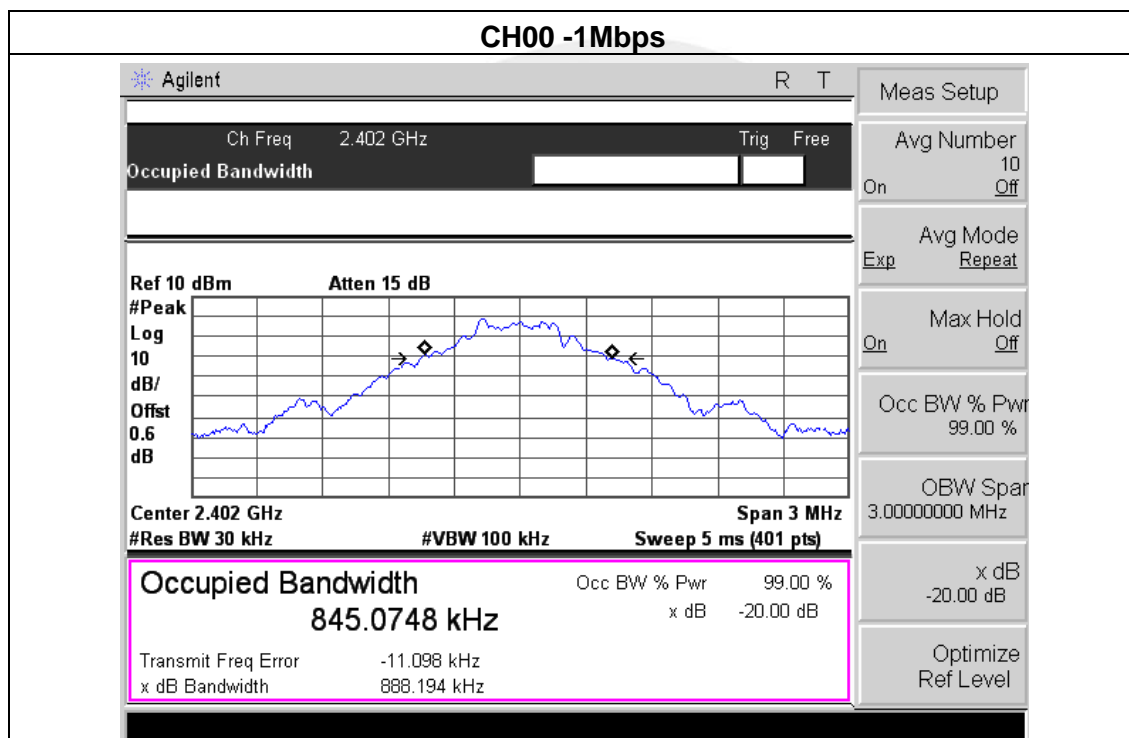
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



8.5 TEST RESULTS

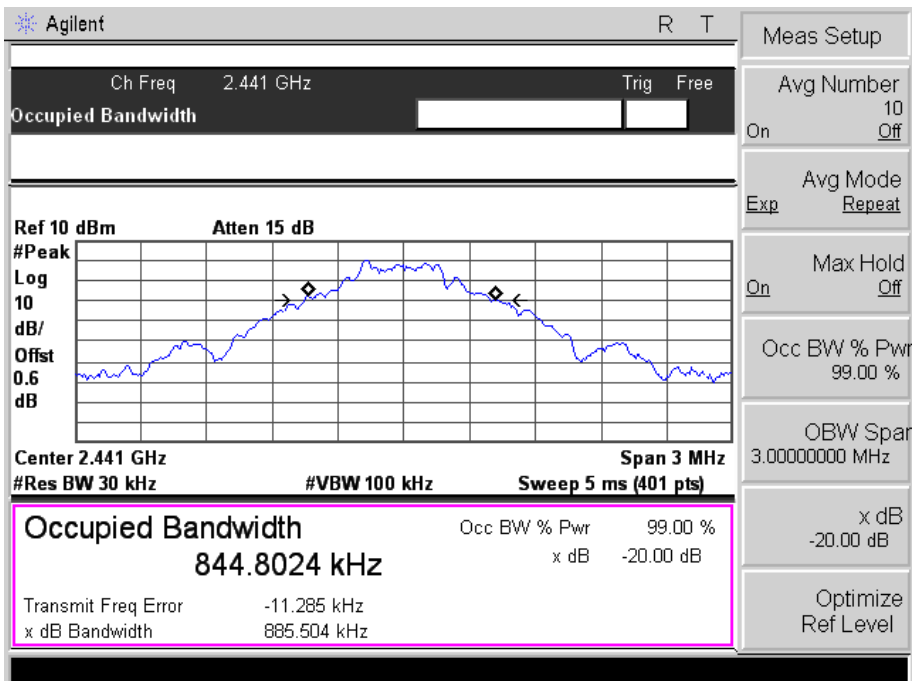
EUT :	Revel Pro	Model Name :	X510A
Temperature :	25 °C	Relative Humidity :	50%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	GFSK(1Mbps)CH00 / CH39 /C78		

Frequency	20dB Bandwidth (kHz)	Result
2402 MHz	888.194	PASS
2441 MHz	885.504	PASS
2480 MHz	873.856	PASS

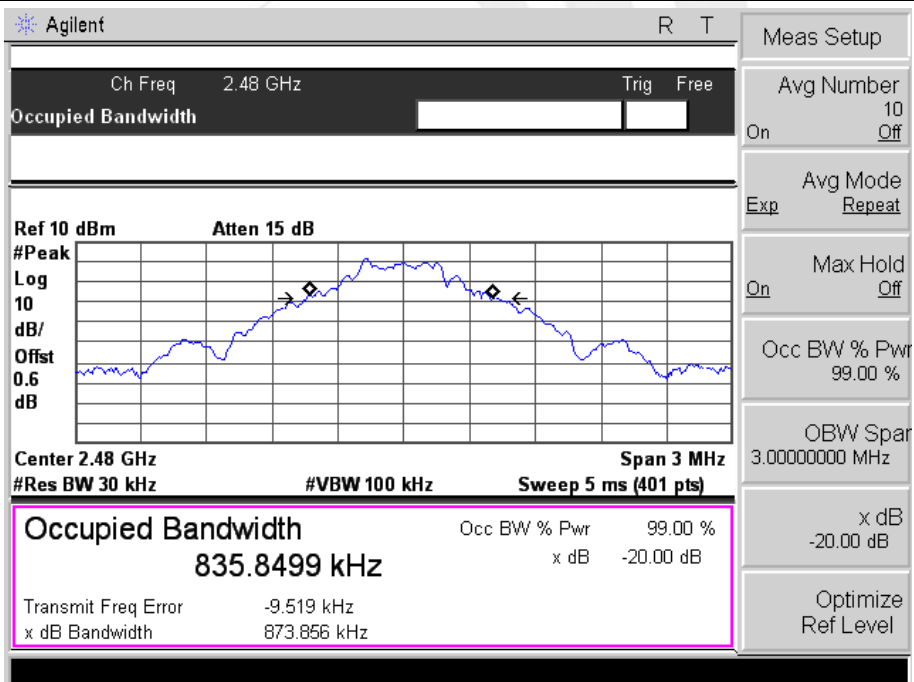




CH39 -1Mbps



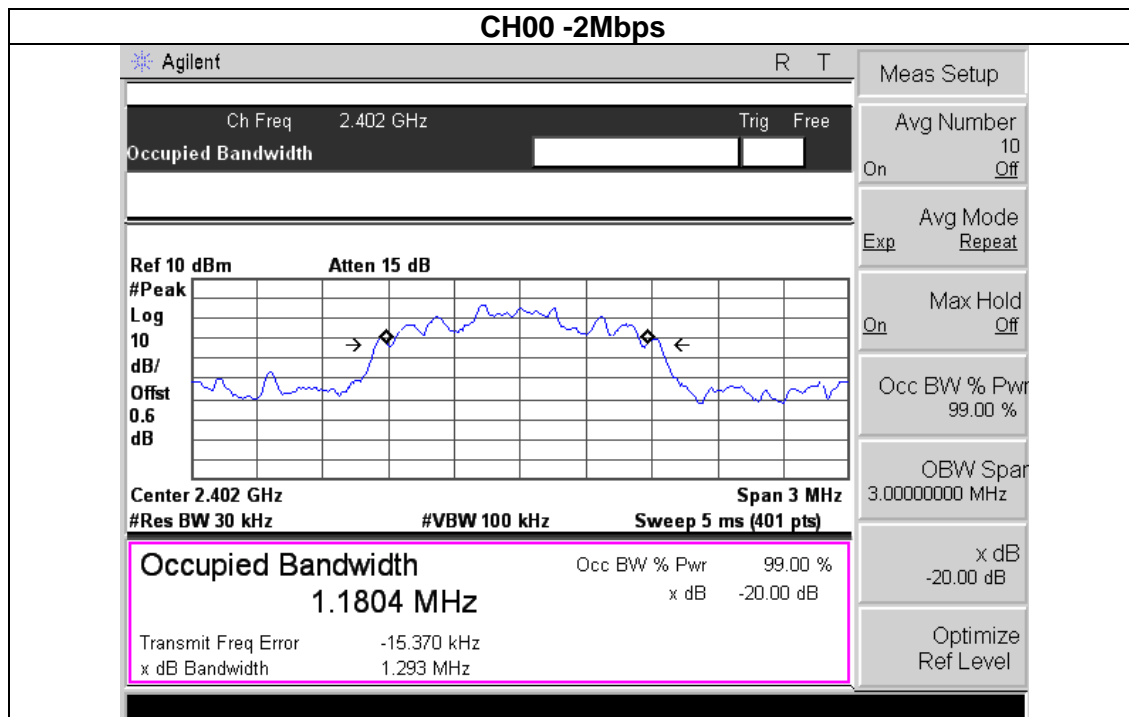
CH78 -1Mbps

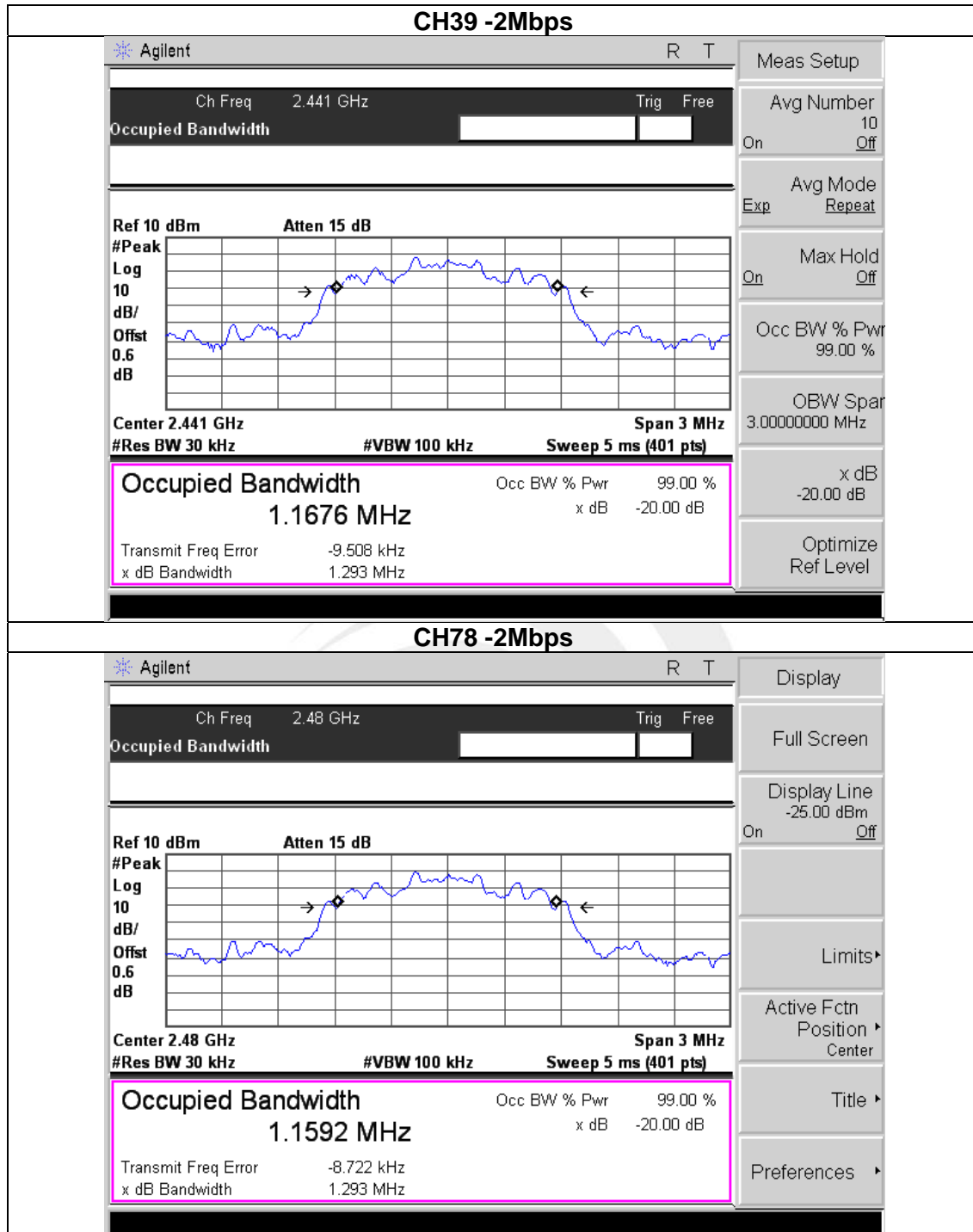




EUT:	Revel Pro	Model Name :	X510A
Temperature:	25 °C	Relative Humidity:	50%
Pressure:	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	$\pi/4$ -DQPSK(2Mbps)CH00 / CH39 /C78		

Frequency	20dB Bandwidth(MHz)	Result
2402 MHz	1.293	PASS
2441 MHz	1.293	PASS
2480 MHz	1.293	PASS

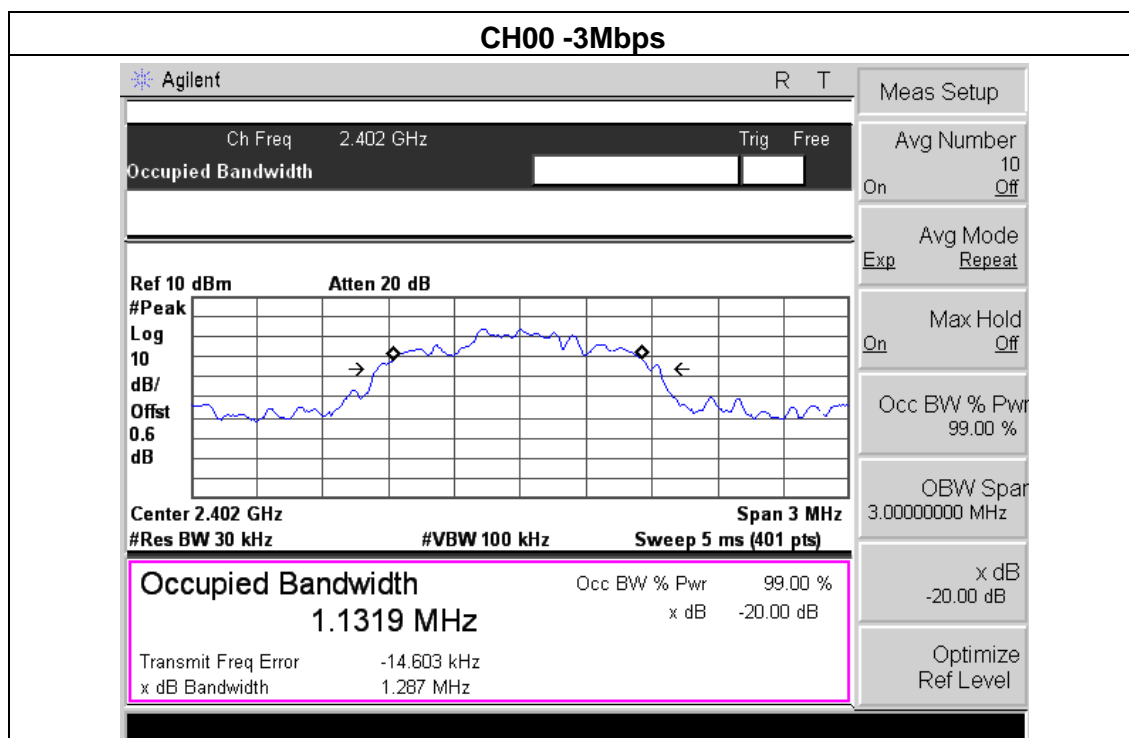






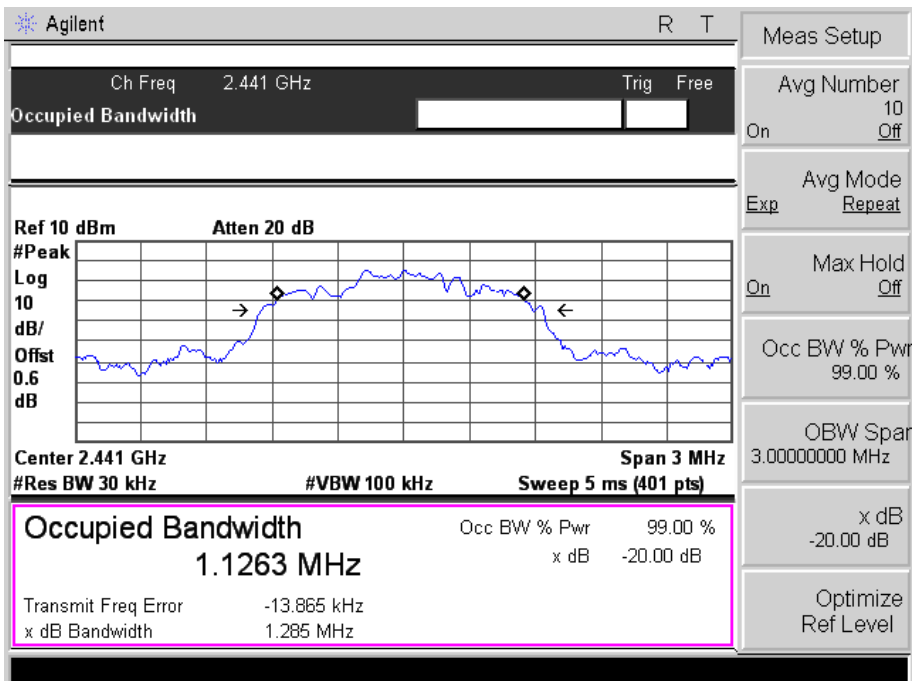
EUT :	Revel Pro	Model Name :	X510A
Temperature :	25 °C	Relative Humidity :	50%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	8-DPSK(3Mbps)CH00 / CH39 /C78		

Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	1.287	PASS
2441 MHz	1.285	PASS
2480 MHz	1.287	PASS

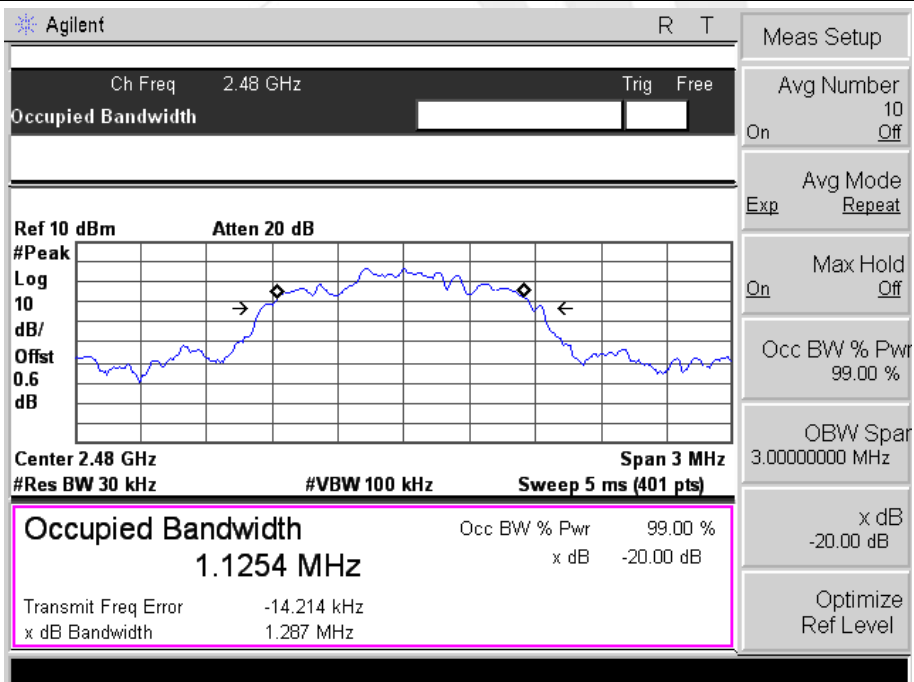




CH39 -3Mbps



CH78 -3Mbps





9. PEAK OUTPUT POWER TEST

9.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (b)(i)	Peak Output Power	1 W or 0.125W	2400-2483.5	PASS
		Or if channel separation > 2/3 bandwidth provided the systems operate with an output power no greater than 125 mW (20.96dBm)		

9.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting : GFSK(1Mbps):RBW= 1MHz, VBW= 3MHz, Sweep time = Auto.
- Spectrum Setting : $\pi/4$ -DQPSK(2Mbps):RBW= 3MHz, VBW= 3MHz, Sweep time = Auto.
- Spectrum Setting : 8-DPSK(3Mbps):RBW= 3MHz, VBW= 3MHz, Sweep time = Auto.

9.3 TEST SETUP



9.4 EUT OPERATION 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.

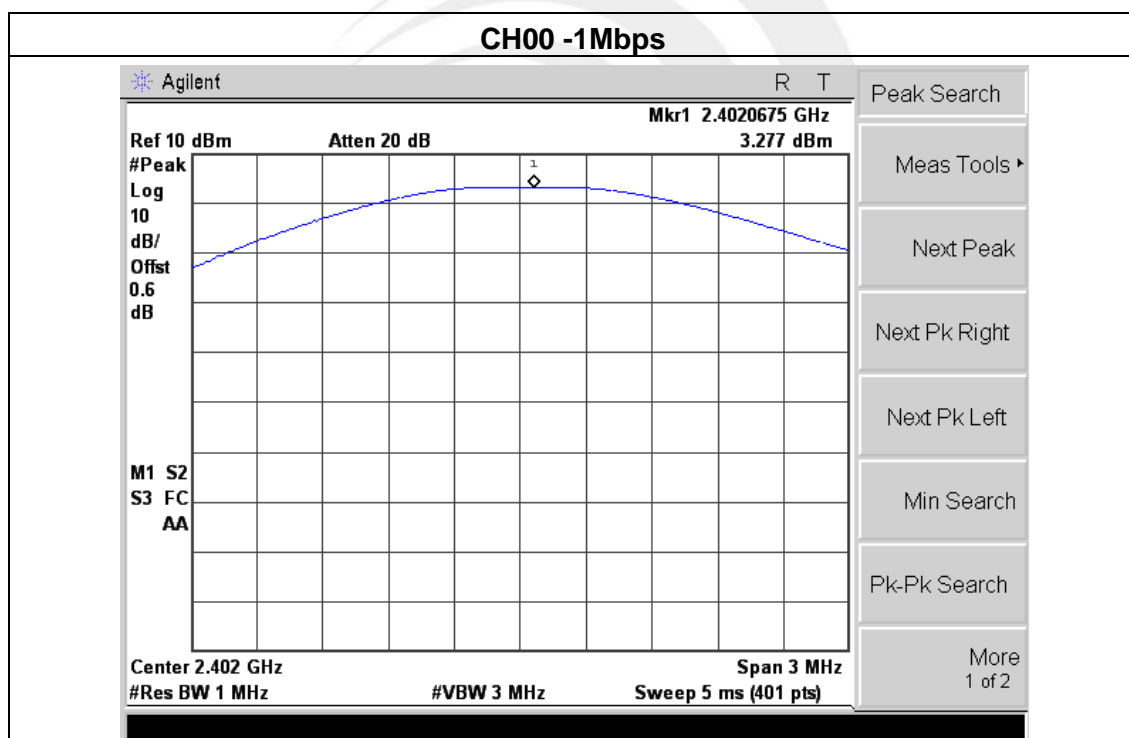


9.5 TEST RESULTS

EUT :	Revel Pro	Model Name :	X510A
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	CH00/ CH39 /CH78 GFSK(1Mbps)		

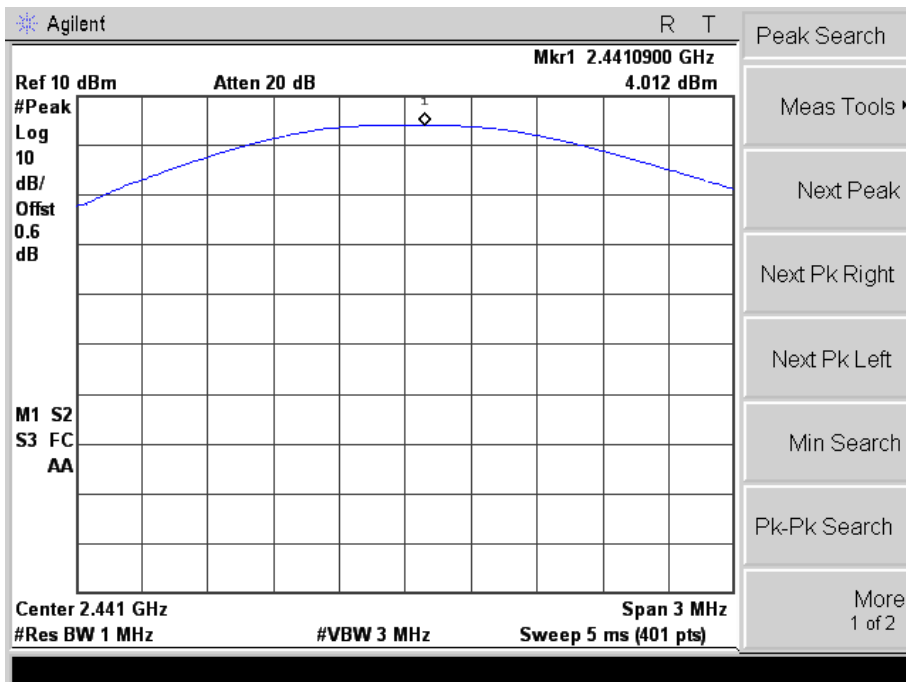
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)
CH00	2402	3.277	30
CH39	2441	4.012	30
CH78	2480	4.223	30

Note : the channel separation > bandwidth

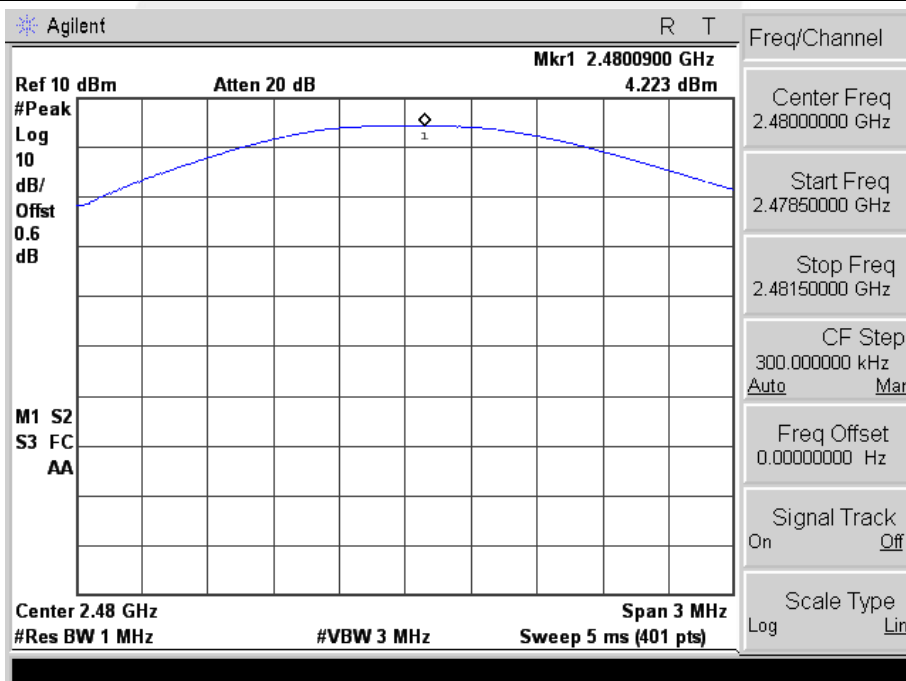




CH39 -1Mbps



CH78 -1Mbps

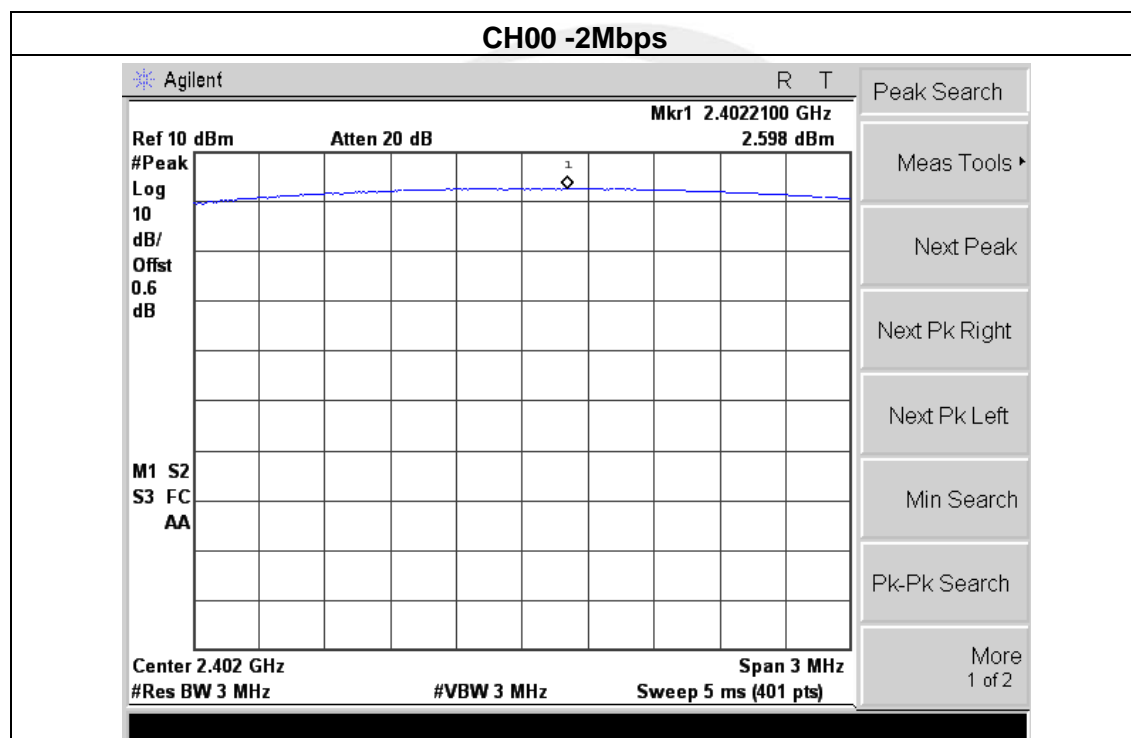




EUT :	Revel Pro	Model Name :	X510A
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	CH00/ CH39 /CH78 $\pi/4$ -DQPSK(2Mbps)		

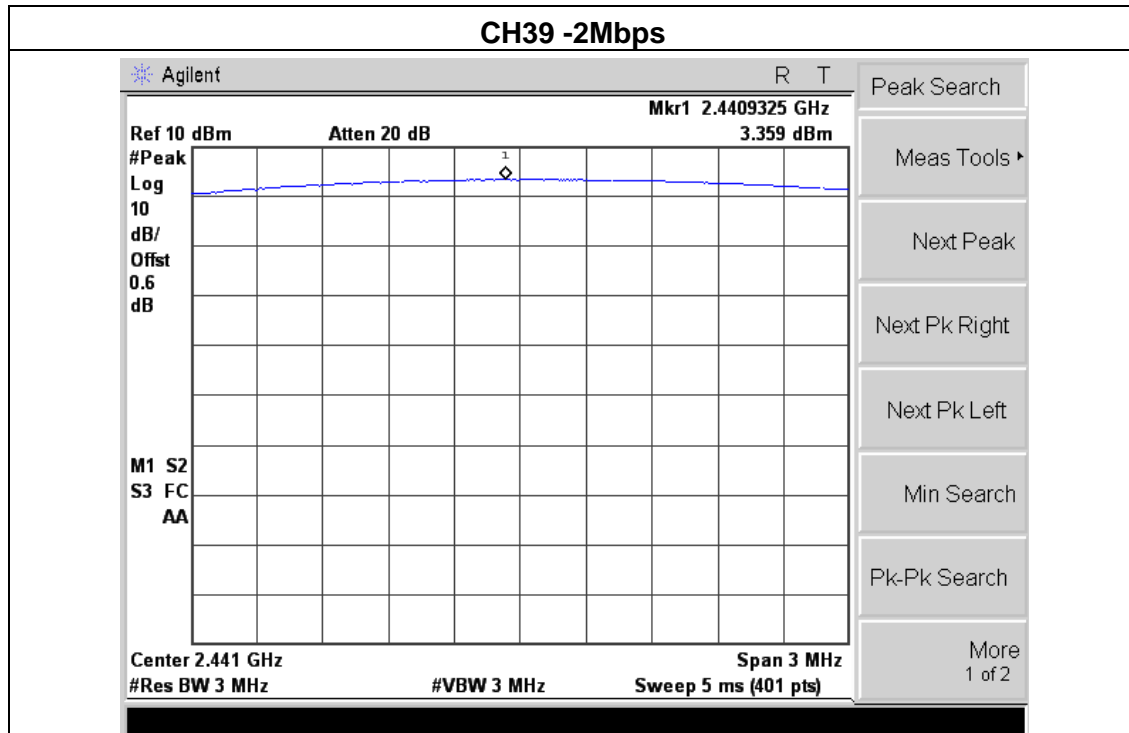
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)
CH00	2402	2.598	20.96
CH39	2441	3.359	20.96
CH78	2480	3.607	20.96

Note : the channel separation >2/3 bandwidth

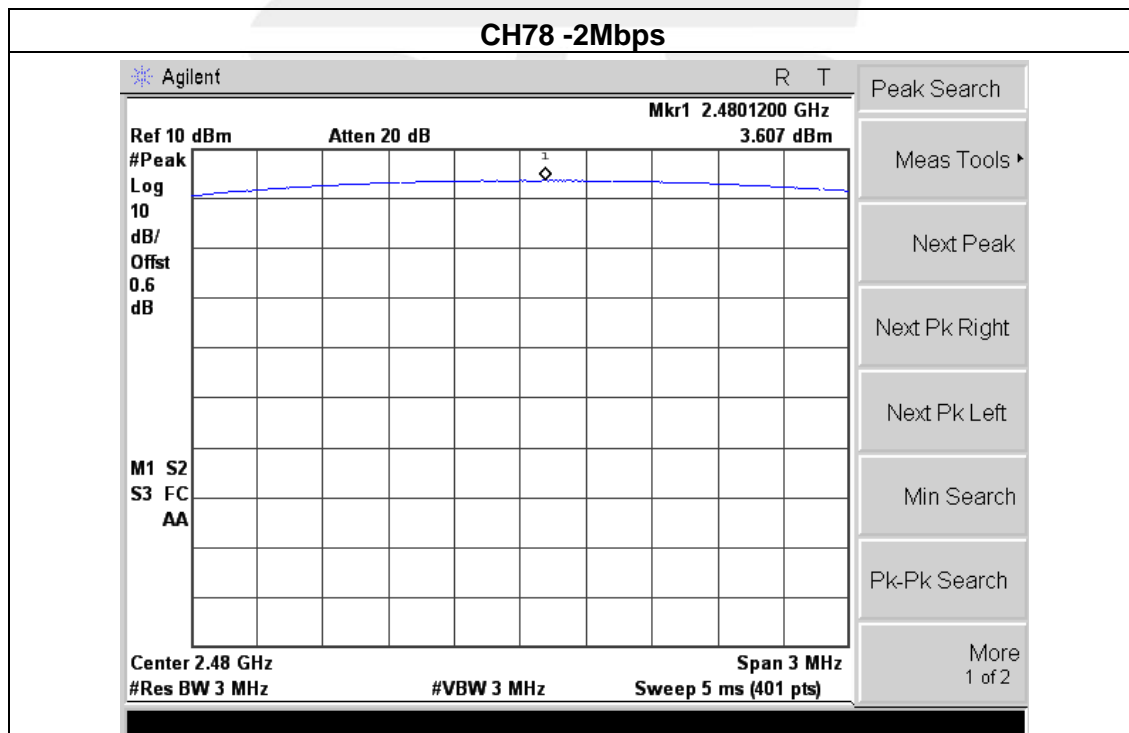




CH39 -2Mbps



CH78 -2Mbps

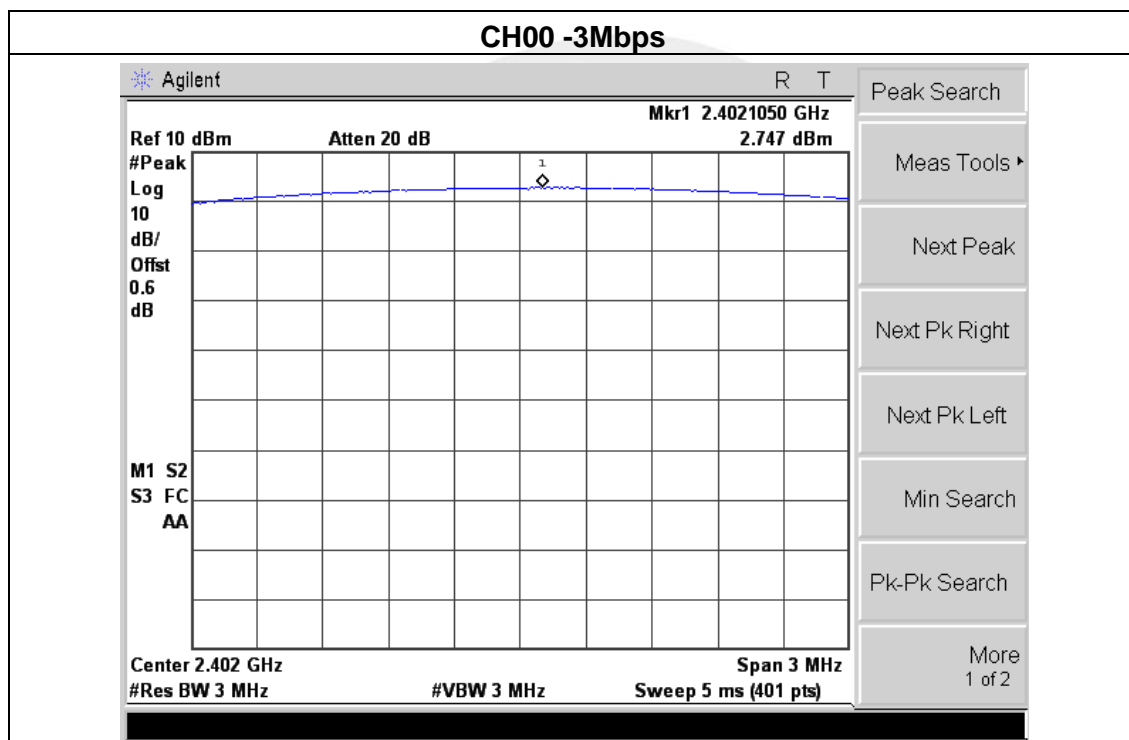


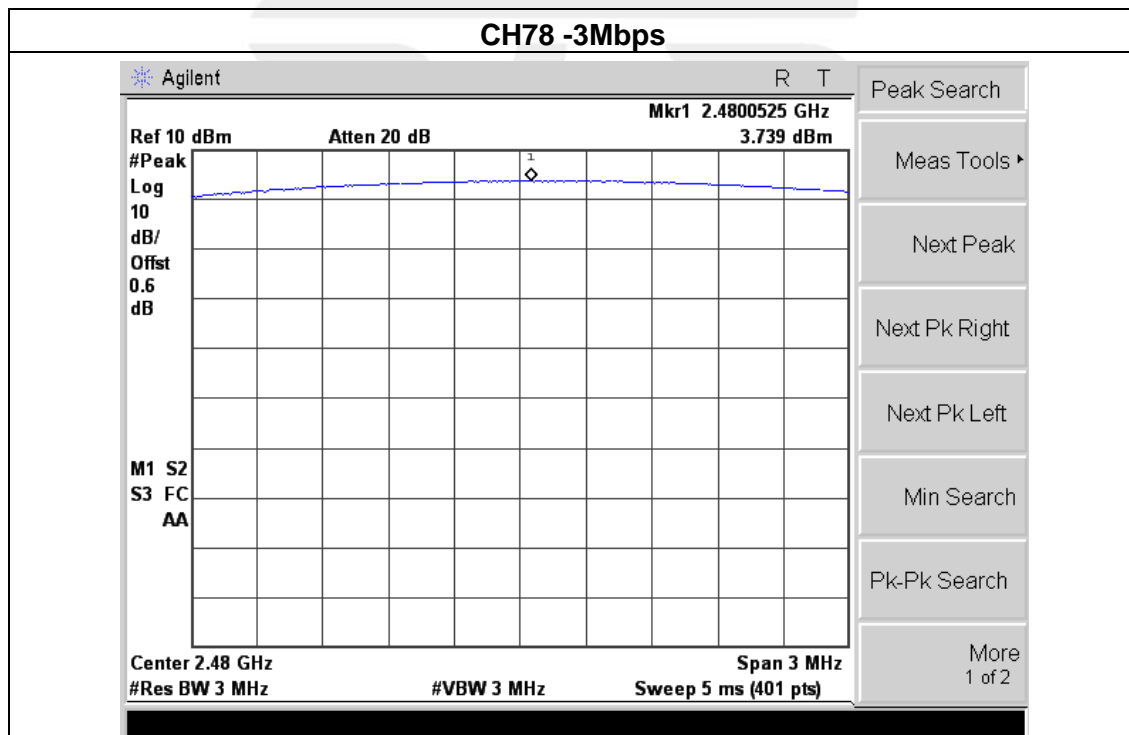
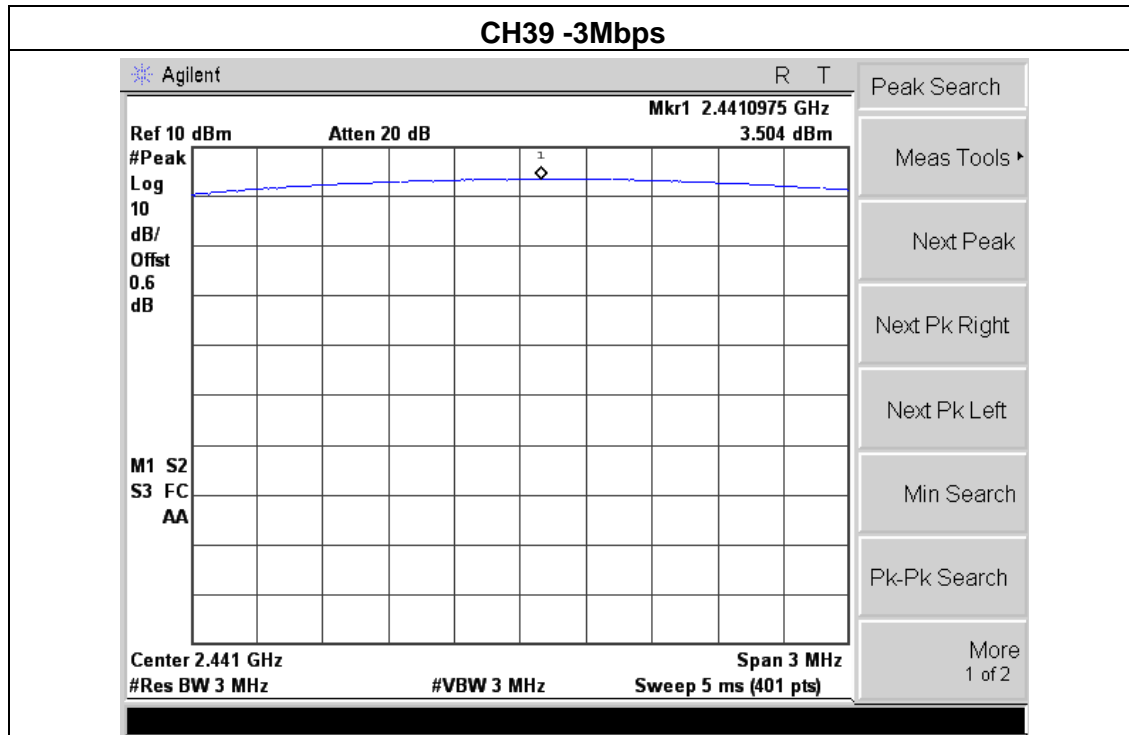


EUT:	Revel Pro	Model Name :	X510A
Temperature:	25 °C	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	CH00/ CH39 /CH78 8-DPSK(3Mbps)		

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)
CH00	2402	2.747	20.96
CH39	2441	3.504	20.96
CH78	2480	3.739	20.96

Note : the channel separation >2/3 bandwidth







10. ANTENNA REQUIREMENT

10.1 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.

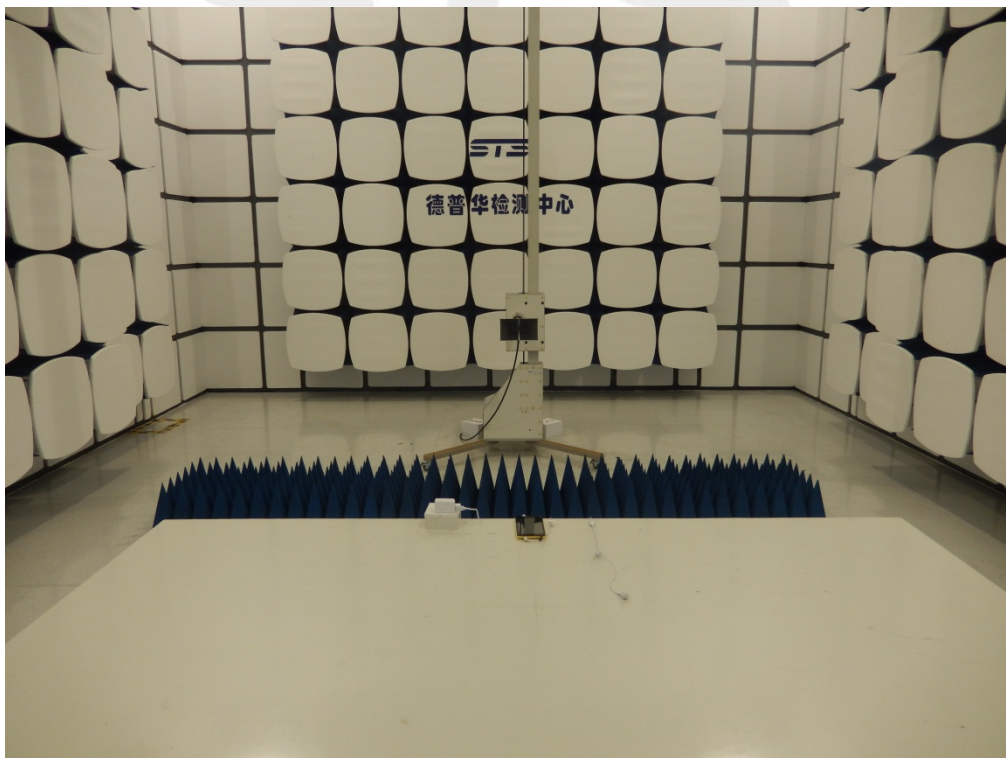
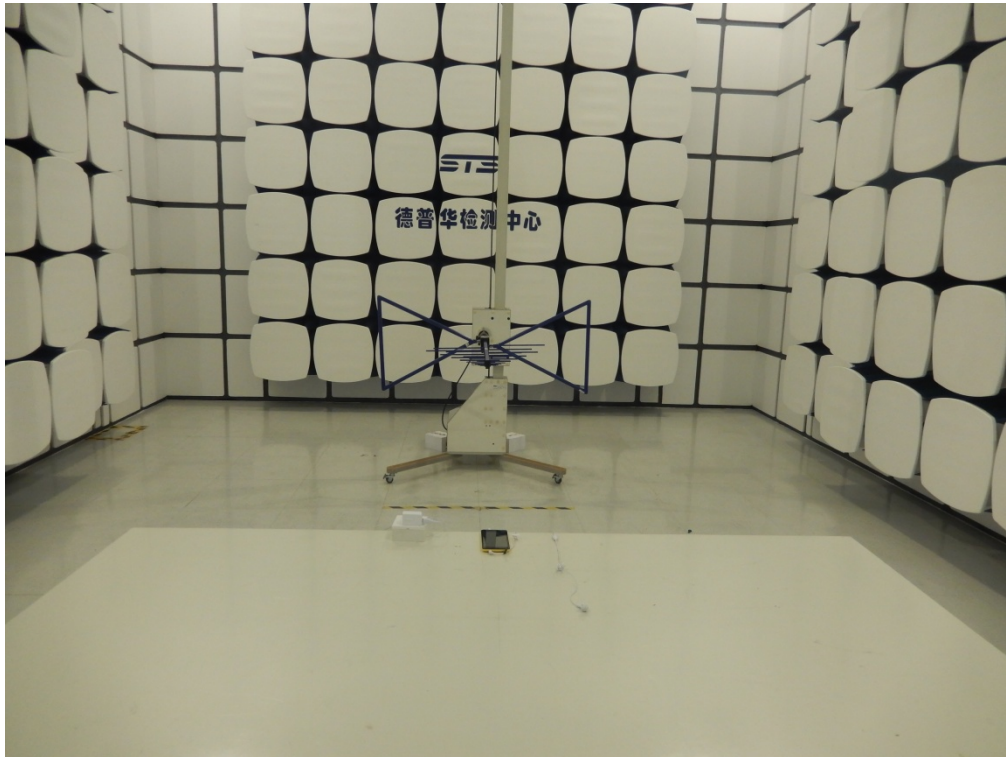
10.2 EUT ANTENNA

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



APPENDIX- PHOTOS OF TEST SETUP

Radiated Measurement Photos





Conducted Measurement Photos

