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RADIO TEST REPORT

Report No:STS1811001W13

Issued for

Shenzhen LEAGOO Intelligence Co., Limited

2nd Floor of Building B, HongLianYing Technology Park,
No.286 of SiLi Road, DaBuXiang Community, Longhua New
District, Shenzhen, China

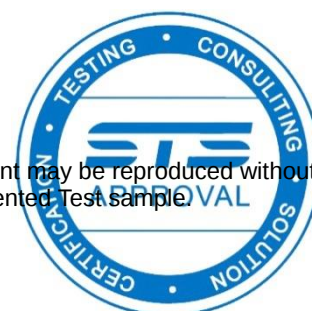
Product Name:	Smartphone
Brand Name:	LEAGOO
Model Name:	S10
Series Model:	N/A
FCC ID:	2AQMh-LEAGOO-S10
Test Standard:	FCC Part 15.247

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Shenzhen STS Test Services Co., Ltd.

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**TEST RESULT CERTIFICATION**

Applicant's name.....: Shenzhen LEAGOO Intelligence Co., Limited
2nd Floor of Building B, HongLianYing Technology Park, No.286 of
Address.....: SiLi Road, DaBuXiang Community, Longhua New District,
Shenzhen, China
Manufacture's Name.....: Shenzhen LEAGOO Intelligence Co., Limited
2nd Floor of Building B, HongLianYing Technology Park, No.286 of
Address.....: SiLi Road, DaBuXiang Community, Longhua New District,
Shenzhen, China

Product description

Product Name.....: Smartphone
Brand Name.....: LEAGOO
Model Name.....: S10
Series Model.....: N/A
Test Standards.....: FCC Part15.247
Test procedure.....: ANSI C63.10-2013

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC 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 Nov. 2018 ~06 Dec. 2018

Date of Issue.....: 08 Dec. 2018

Test Result.....: Pass

Testing Engineer :

(Chris chen)

Technical Manager :

(Sunday Hu)

Authorized Signatory :

(Vita Li)





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**Revision History**

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	08 Dec. 2018	STS1811001W13	ALL	Initial Issue





1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards: DA 00-705

FCC Part 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(a)(1)&(b)(1)	Output Power	PASS	--
15.247(c)	Radiated Spurious Emission	PASS	--
15.247(d)	Conducted Spurious & Band Edge 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	Restricted Band Edge Emission	PASS	--
Part 15.247(d)/part 15.209(a)	Band Edge Emission	PASS	--
15.203	Antenna Requirement	PASS	--

NOTE:

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

(2) All tests are according to ANSI C63.10-2013



1.1 TEST FACTORY

Shenzhen STS Test Services Co., Ltd.

Add. : 1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road,
Fuyong Street, Bao'an District, Shenzhen, Guangdong, China

FCC Registration No.: 625569

IC Registration No.: 12108A; A2LA Certificate No.: 4338.01;

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95 %**.

No.	Item	Uncertainty
1	RF output power,conducted	$\pm 0.71\text{dB}$
2	Unwanted Emissions,conducted	$\pm 0.63\text{dB}$
3	All emissions,radiated 30-200MHz	$\pm 3.43\text{dB}$
4	All emissions,radiated 200MHz-1GHz	$\pm 3.57\text{dB}$
5	All emissions,radiated>1G	$\pm 4.13\text{dB}$
6	Conducted Emission(9KHz-150KHz)	$\pm 3.18\text{dB}$
7	Conducted Emission(150KHz-30MHz)	$\pm 2.70\text{dB}$



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Smartphone	
Trade Name	LEAGOO	
Model Name	S10	
Series Model	N/A	
Model Difference	N/A	
Product Description	The EUT is Smartphone	
	Operation Frequency:	2402~2480 MHz
	Modulation Type:	GFSK(1Mbps), $\pi/4$ -DQPSK(2Mbps), 8DPSK(3Mbps)
	Radio Technology	BT
	Bluetooth Version:	4.2 BR+EDR
	Number Of Channel:	79
	Antenna Designation:	Please see Note 3.
	Antenna Gain (dBi)	0.5 dBi
Channel List	Please refer to the Note 2.	
Adapter	Power supply and ADP(rating): Input: AC 100-240V, 0.5A, 50/60Hz Output: 5V/7V/9V ---2A, 12V ---1.5A	
Battery	Battery(rating): Rated Voltage: 3.85V Charge Limit: 4.4V Capacity: 4050mAh	
Hardware version number	E906_MAIN_PCB_V1.2	
Software version number	LEAGOO_S10_OS5.0	
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	LEAGOO	S10	PIFA Antenna	N/A	0.5	BT Antenna



2.2 DESCRIPTION OF THE 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.

Worst Mode	Description	Data Rate/Modulation
Mode 1	TX CH00	1Mbps/GFSK
Mode 2	TX CH39	1Mbps/GFSK
Mode 3	TX CH78	1Mbps/GFSK
Mode 4	TX CH00	2 Mbps/ π /4-DQPSK
Mode 5	TX CH39	2 Mbps/ π /4-DQPSK
Mode 6	TX CH78	2 Mbps/ π /4-DQPSK
Mode7	TX CH00	3 Mbps/8DPSK
Mode 8	TX CH39	3 Mbps/8DPSK
Mode 9	TX CH78	3 Mbps/8DPSK

Note:

- (1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported
- (2) We have be tested for all avaiable U.S. voltage and frequencies(For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V/ 60Hz is shown in the report

For AC Conducted Emission

Test Case	
AC Conducted Emission	Mode 10 : Keeping BT TX

2.3 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.

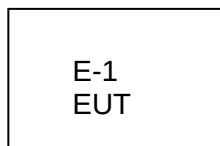
Test software Version	Test program: Bluetooth		
Frequency	2402 MHz	2441 MHz	2480 MHz
(Power control software) Parameters(1/2/3Mbps)	Power class: 1 M rate:4:27 2 M rate:11:183 3 M rate:15:339	Power class: 1 M rate:4:27 2 M rate:11:183 3 M rate:15:339	Power class: 1 M rate:4:27 2 M rate:11:183 3 M rate:15:339



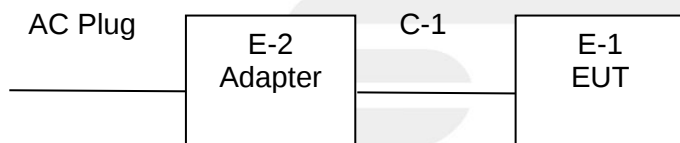
2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

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

Radiated Spurious EmissionTest



Conducted Emission Test





2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

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

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
E-2	Adapter	LEAGOO	APS-KI018WU-G	N/A	N/A
C-1	DC Cable	N/A	100 cm	N/A	N/A

Support units

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

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.



2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2018.10.13	2019.10.12
Bilog Antenna	TESEQ	CBL6111D	34678	2017.11.02	2020.11.01
Horn Antenna	Schwarzbeck	BBHA 9120D(1201)	9120D-1343	2017.10.27	2020.10.26
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	N/A	2018.03.11	2021.03.10
Temperature & Humidity	HH660	Mieo	N/A	2018.10.13	2019.10.12
Pre-mpifier (0.1M-3GHz)	EM	EM330	N/A	2018.03.09	2019.03.08
PreAmplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2018.10.13	2019.10.12
Passive Loop (9K--30MHz)	ZHINAN	ZN30900C	16035	2017.03.11	2020.03.10
Low frequency cable	EM	R01	N/A	2018.03.11	2019.03.10
Low frequency cable	EM	R06	N/A	2018.03.11	2019.03.10
High frequency cable	SCHWARZBECK	R04	N/A	2018.03.11	2019.03.10
High frequency cable	SCHWARZBECK	R02	N/A	2018.03.11	2019.03.10
Semi-anechoic chamber	Changling	966	N/A	2018.10.24	2020.10.23
turn table	EM	SC100_1	60531	N/A	N/A
Antenna mast	EM	SC100	N/A	N/A	N/A
Max-full Antenna Corp	MF	MFA-440H	N/A	N/A	N/A
Band Reject filter(2400-2500MHz)	COM-MW	ZBSF-2400-2500	706	2018.10.13	2019.10.12

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2018.10.13	2019.10.12
LISN	R&S	ENV216	101242	2018.10.13	2019.10.12
conduction Cable	EM	C01	N/A	2018.03.11	2019.03.10
Temperature & Humidity	Mieo	HH660	N/A	2018.10.13	2019.10.12



RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
USB RF power sensor	DARE	RPR3006W	15I00041SNO03	2018.10.13	2019.10.12
MXA Signal analyzer	Agilent	N9020A	MY51110105	2018.03.08	2019.03.07
MXA Signal analyzer	Agilent	N9020A	MY49100060	2018.10.13	2019.10.12





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 207(a) limit in the table below has to be followed.

FREQUENCY (MHz)	Conducted Emissionlimit (dBuV)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

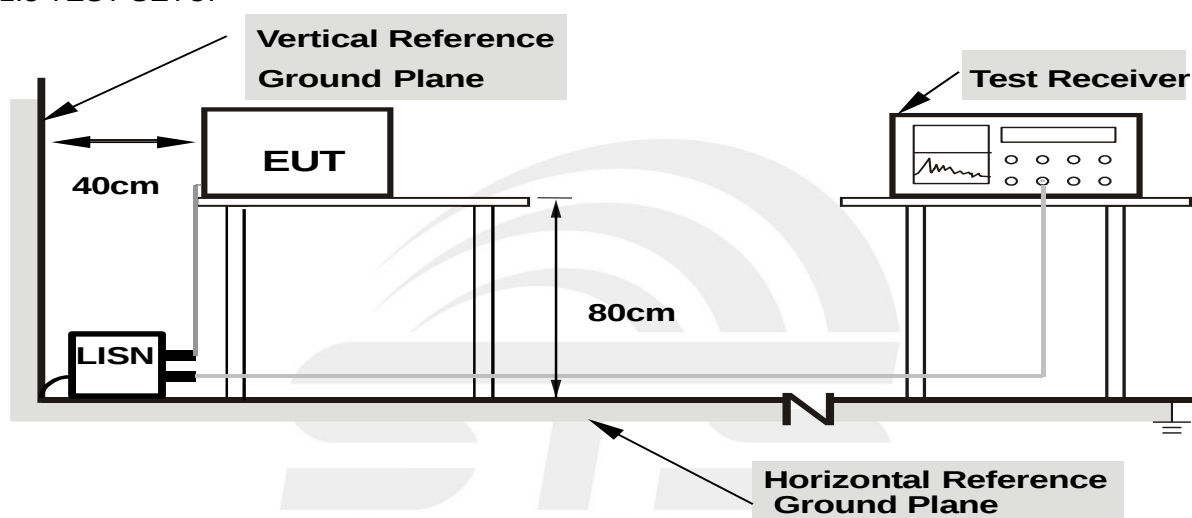
The following table is the setting of the receiver

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

3.1.2 TEST PROCEDURE

- The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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 RESULT

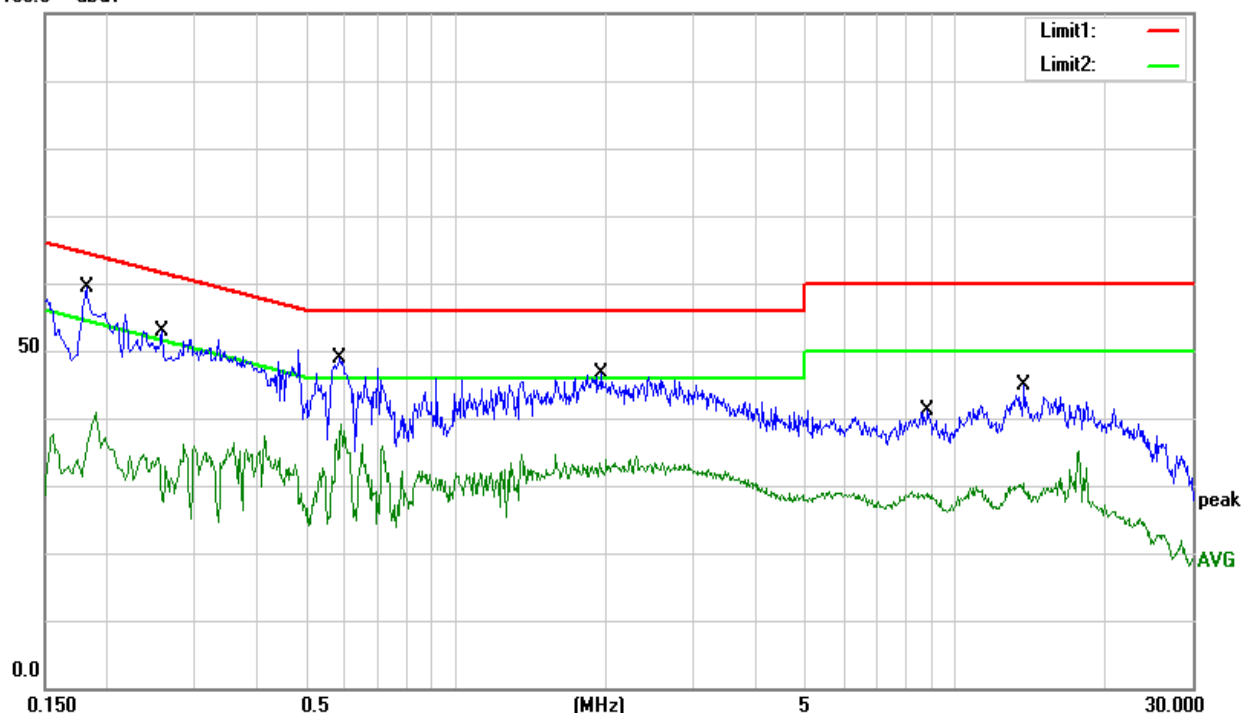
Temperature:	26.3 °C	Relative Humidity:	63%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 10		

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
0.1820	39.26	20.23	59.49	64.39	-4.90	QP
0.1820	20.55	20.23	40.78	54.39	-13.61	AVG
0.2580	32.44	20.52	52.96	61.50	-8.54	QP
0.2580	15.52	20.52	36.04	51.50	-15.46	AVG
0.5860	28.41	20.39	48.80	56.00	-7.20	QP
0.5860	18.78	20.39	39.17	46.00	-6.83	AVG
1.9660	26.47	20.06	46.53	56.00	-9.47	QP
1.9660	14.21	20.06	34.27	46.00	-11.73	AVG
8.8300	21.18	20.05	41.23	60.00	-18.77	QP
8.8300	9.73	20.05	29.78	50.00	-20.22	AVG
13.8220	24.79	20.01	44.80	60.00	-15.20	QP
13.8220	15.08	20.01	35.09	50.00	-14.91	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Margin = Result (Result = Reading + Factor) - Limit

100.0 dBuV





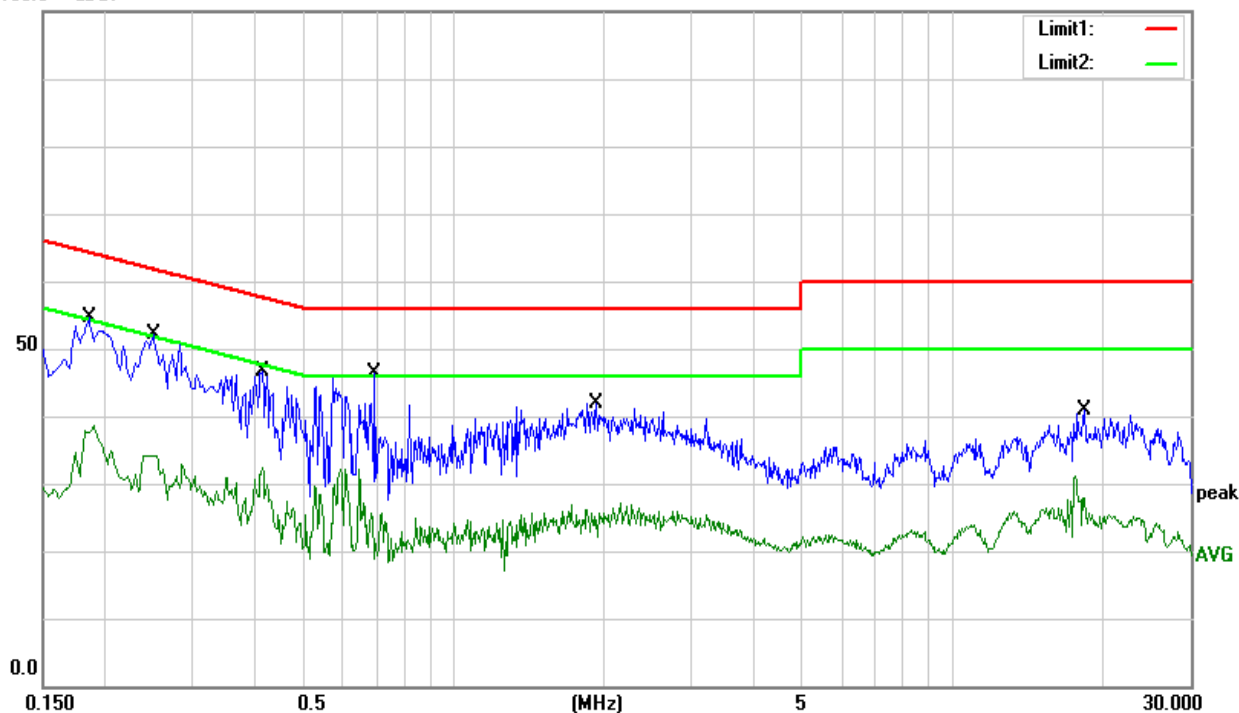
Temperature:	26.3 °C	Relative Humidity:	63%
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 10		

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
0.1860	34.26	20.29	54.55	64.21	-9.66	QP
0.1860	18.35	20.29	38.64	54.21	-15.57	AVG
0.2500	31.47	20.54	52.01	61.76	-9.75	QP
0.2500	13.63	20.54	34.17	51.76	-17.59	AVG
0.4140	26.00	20.51	46.51	57.57	-11.06	QP
0.4140	11.87	20.51	32.38	47.57	-15.19	AVG
0.6940	26.11	20.28	46.39	56.00	-9.61	QP
0.6940	5.33	20.28	25.61	46.00	-20.39	AVG
1.9340	21.64	20.16	41.80	56.00	-14.20	QP
1.9340	6.90	20.16	27.06	46.00	-18.94	AVG
18.3460	20.91	19.90	40.81	60.00	-19.19	QP
18.3460	7.97	19.90	27.87	50.00	-22.13	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Margin = Result (Result = Reading + Factor) - Limit

100.0 dBuV





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS

in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 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 (1GHz-25 GHz)

FREQUENCY (MHz)	(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).

For Radiated Emission

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

For Band edge

Spectrum Parameter	Setting
Detector	Peak/AV
Start/Stop Frequency	Lower Band Edge: 2300 to 2403 MHz Upper Band Edge: 2479 to 2500 MHz
RB / VB (emission in restricted band)	PK=1MHz / 1MHz, AV=1 MHz / 10 Hz



Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~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 0.009MHz up to 1GHz, and above 1GHz.
- The EUT was placed on the top of a rotating table 0.8 meters (above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. 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 QuasiPeak 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

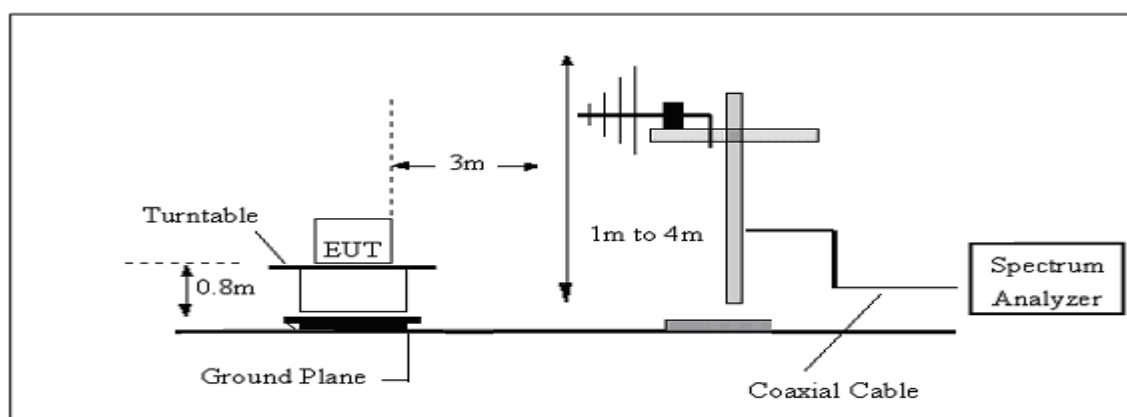
No deviation

3.2.4 TESTSETUP

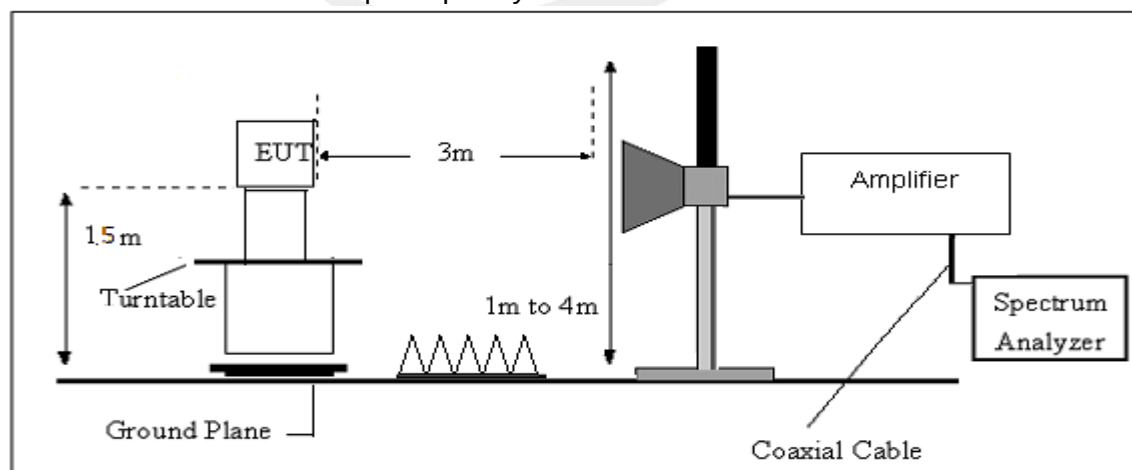
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBμV/m)	(dBμV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

$$\text{Factor} = \text{AF} + \text{CL} - \text{AG}$$





3.2.7 TEST RESULTS

(9KHz-30MHz)

Temperature:	22.6°C	Relative Humidity:	40%
Test Voltage:	DC 3.85V FROM BATTERY	Test Mode:	TX Mode

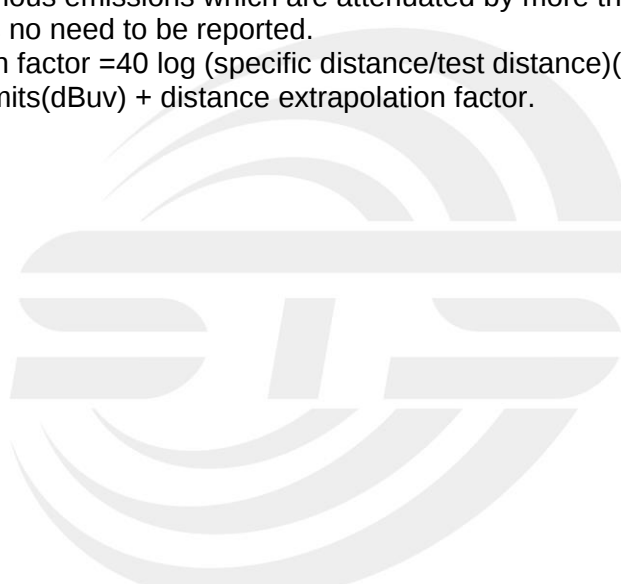
Freq.	Reading	Limit	Margin	State	Test Result
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F	
--	--	--	--	--	PASS
--	--	--	--	--	PASS

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

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





(30MHz-1000MHz)

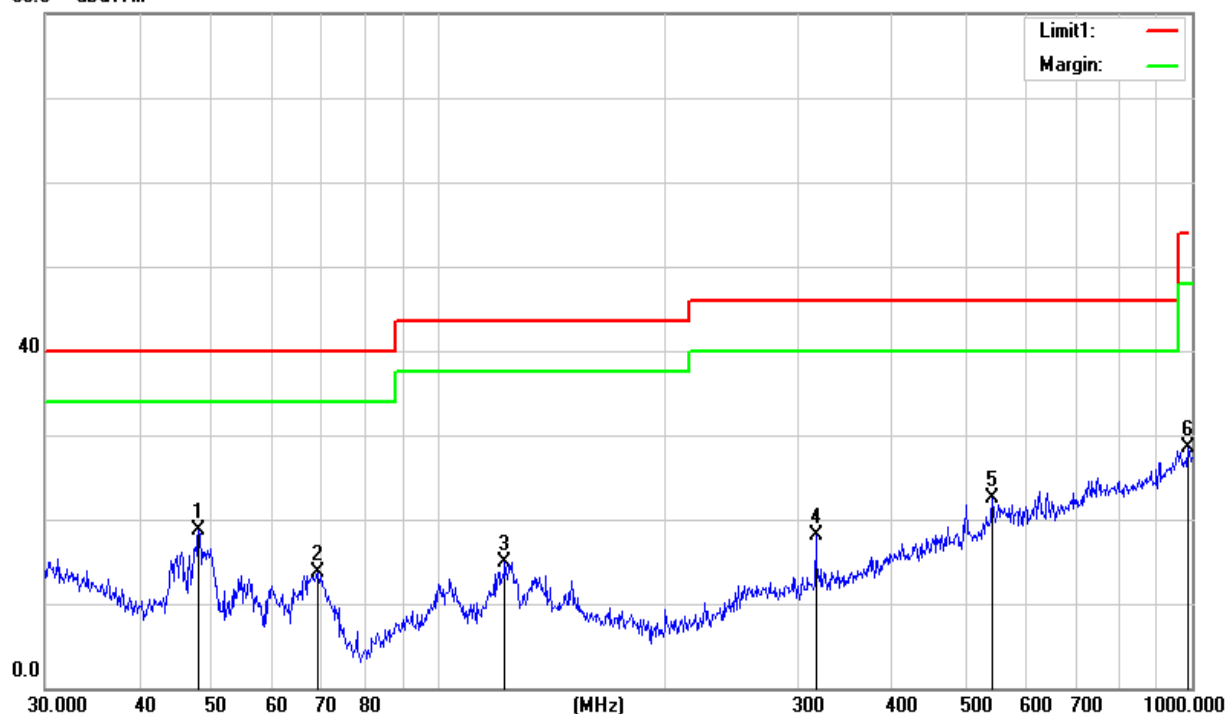
Temperature:	22.6°C	Relative Humidity:	40%
Test Voltage:	DC 3.85V FROM BATTERY	Phase:	Horizontal
Test Mode:	Mode 1/2/3/4/5/6/7/8/9(Mode 2-1M worst mode)		

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
47.9940	39.09	-20.45	18.64	40.00	-21.36	QP
69.1141	37.73	-24.12	13.61	40.00	-26.39	QP
122.4040	32.48	-17.66	14.82	43.50	-28.68	QP
316.5890	32.34	-14.28	18.06	46.00	-27.94	QP
543.2742	29.46	-6.92	22.54	46.00	-23.46	QP
989.5355	28.55	-0.11	28.44	54.00	-25.56	QP

Remark:

1. Margin = Result (Result = Reading + Factor) – Limit

80.0 dBuV/m





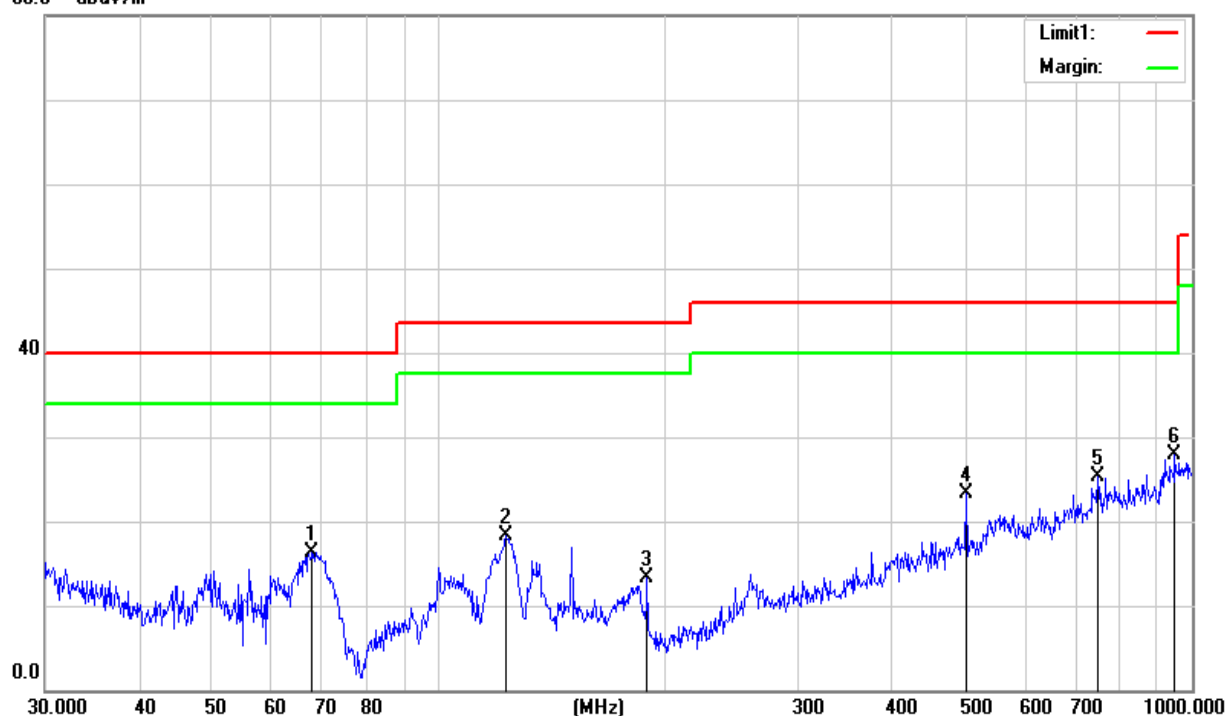
Temperature:	22.6°C	Relative Humidity:	40%
Test Voltage:	DC 3.85V FROM BATTERY	Phase:	Vertical
Test Mode:	Mode 1/2/3/4/5/6/7/8/9(Mode 2-1M worst mode)		

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
67.9130	40.43	-24.15	16.28	40.00	-23.72	QP
122.8340	35.97	-17.65	18.32	43.50	-25.18	QP
189.0743	33.55	-20.18	13.37	43.50	-30.13	QP
501.1790	32.11	-8.90	23.21	46.00	-22.79	QP
750.1083	28.88	-3.56	25.32	46.00	-20.68	QP
948.7610	28.27	-0.45	27.82	46.00	-18.18	QP

Remark:

1. Margin = Result (Result = Reading + Factor) – Limit

80.0 dBuV/m





(1GHz~25GHz) Restricted band and Spurious emission Requirements

GFSK Low Channel

Frequency	Reading	Amplifier	Loss	Antenna	Corrected	Emission	Limits	Margin	Detector	Comment
(MHz)	(dBμV)	(dB)	(dB)	Factor	Factor	Level	(dBμV/m)	(dBμV/m)	(dB)	Type
Low Channel (2402 MHz)										
3264.71	61.35	44.70	6.70	28.20	-9.80	51.55	74.00	-22.45	PK	Vertical
3264.71	50.02	44.70	6.70	28.20	-9.80	40.22	54.00	-13.78	AV	Vertical
3264.80	62.06	44.70	6.70	28.20	-9.80	52.26	74.00	-21.74	PK	Horizontal
3264.80	50.96	44.70	6.70	28.20	-9.80	41.16	54.00	-12.84	AV	Horizontal
4804.34	58.21	44.20	9.04	31.60	-3.56	54.65	74.00	-19.35	PK	Vertical
4804.34	50.10	44.20	9.04	31.60	-3.56	46.54	54.00	-7.46	AV	Vertical
4804.32	58.23	44.20	9.04	31.60	-3.56	54.67	74.00	-19.33	PK	Horizontal
4804.32	49.13	44.20	9.04	31.60	-3.56	45.57	54.00	-8.43	AV	Horizontal
5359.81	49.15	44.20	9.86	32.00	-2.34	46.81	74.00	-27.19	PK	Vertical
5359.81	39.02	44.20	9.86	32.00	-2.34	36.68	54.00	-17.32	AV	Vertical
5359.67	48.10	44.20	9.86	32.00	-2.34	45.76	74.00	-28.24	PK	Horizontal
5359.67	39.08	44.20	9.86	32.00	-2.34	36.74	54.00	-17.26	AV	Horizontal
7205.97	54.68	43.50	11.40	35.50	3.40	58.08	74.00	-15.92	PK	Vertical
7205.97	44.71	43.50	11.40	35.50	3.40	48.11	54.00	-5.89	AV	Vertical
7205.85	54.18	43.50	11.40	35.50	3.40	57.58	74.00	-16.42	PK	Horizontal
7205.85	44.46	43.50	11.40	35.50	3.40	47.86	54.00	-6.14	AV	Horizontal



GFSK Mid Channel

Frequency	Reading	Amplifier	Loss	Antenna	Corrected	Emission	Limits	Margin	Detector	
(MHz)	(dBμV)	(dB)	(dB)	Factor	Factor	Level	(dBμV/m)	(dB)	Type	Comment
Mid Channel (2441 MHz)										
3264.82	61.55	44.70	6.70	28.20	-9.80	51.75	74.00	-22.25	PK	Vertical
3264.82	50.89	44.70	6.70	28.20	-9.80	41.09	54.00	-12.91	AV	Vertical
3264.65	60.94	44.70	6.70	28.20	-9.80	51.14	74.00	-22.86	PK	Horizontal
3264.65	50.44	44.70	6.70	28.20	-9.80	40.64	54.00	-13.36	AV	Horizontal
4882.33	58.91	44.20	9.04	31.60	-3.56	55.35	74.00	-18.65	PK	Vertical
4882.33	50.06	44.20	9.04	31.60	-3.56	46.50	54.00	-7.50	AV	Vertical
4882.59	58.66	44.20	9.04	31.60	-3.56	55.10	74.00	-18.90	PK	Horizontal
4882.59	50.10	44.20	9.04	31.60	-3.56	46.54	54.00	-7.46	AV	Horizontal
5359.68	49.33	44.20	9.86	32.00	-2.34	46.99	74.00	-27.01	PK	Vertical
5359.68	40.16	44.20	9.86	32.00	-2.34	37.82	54.00	-16.18	AV	Vertical
5359.64	47.63	44.20	9.86	32.00	-2.34	45.29	74.00	-28.71	PK	Horizontal
5359.64	38.78	44.20	9.86	32.00	-2.34	36.44	54.00	-17.56	AV	Horizontal
7313.79	54.39	43.50	11.40	35.50	3.40	57.79	74.00	-16.21	PK	Vertical
7313.79	44.15	43.50	11.40	35.50	3.40	47.55	54.00	-6.45	AV	Vertical
7313.95	54.09	43.50	11.40	35.50	3.40	57.49	74.00	-16.51	PK	Horizontal
7313.95	44.70	43.50	11.40	35.50	3.40	48.10	54.00	-5.90	AV	Horizontal



GFSK High Channel

Frequency	Reading	Amplifier	Loss	Antenna Factor	Corrected Factor	Emission Level	Limits	Margin	Detector	
(MHz)	(dBμV)	(dB)	(dB)	(dB/m)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	Comment
High Channel (2480 MHz)										
3264.64	61.85	44.70	6.70	28.20	-9.80	52.05	74.00	-21.95	PK	Vertical
3264.64	49.95	44.70	6.70	28.20	-9.80	40.15	54.00	-13.85	AV	Vertical
3264.60	61.72	44.70	6.70	28.20	-9.80	51.92	74.00	-22.08	PK	Horizontal
3264.60	51.30	44.70	6.70	28.20	-9.80	41.50	54.00	-12.50	AV	Horizontal
4960.38	59.35	44.20	9.04	31.60	-3.56	55.79	74.00	-18.21	PK	Vertical
4960.38	50.33	44.20	9.04	31.60	-3.56	46.77	54.00	-7.23	AV	Vertical
4960.31	58.97	44.20	9.04	31.60	-3.56	55.41	74.00	-18.59	PK	Horizontal
4960.31	49.68	44.20	9.04	31.60	-3.56	46.12	54.00	-7.88	AV	Horizontal
5359.64	48.39	44.20	9.86	32.00	-2.34	46.05	74.00	-27.95	PK	Vertical
5359.64	40.33	44.20	9.86	32.00	-2.34	37.99	54.00	-16.01	AV	Vertical
5359.76	47.92	44.20	9.86	32.00	-2.34	45.58	74.00	-28.42	PK	Horizontal
5359.76	38.14	44.20	9.86	32.00	-2.34	35.80	54.00	-18.20	AV	Horizontal
7439.96	54.50	43.50	11.40	35.50	3.40	57.90	74.00	-16.10	PK	Vertical
7439.96	44.93	43.50	11.40	35.50	3.40	48.33	54.00	-5.67	AV	Vertical
7439.76	53.86	43.50	11.40	35.50	3.40	57.26	74.00	-16.74	PK	Horizontal
7439.76	44.27	43.50	11.40	35.50	3.40	47.67	54.00	-6.33	AV	Horizontal

Note:

1) Scan with GFSK, $\pi/4$ -DQPSK, 8DPSK, the worst case is GFSK Mode

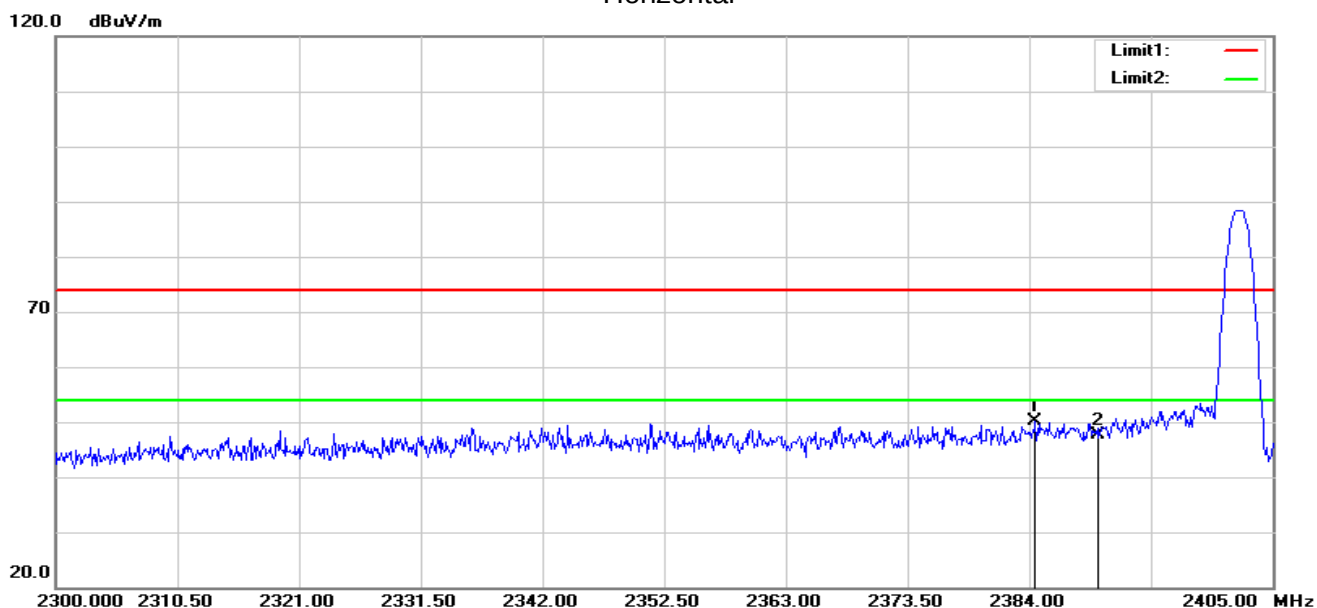
2) Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Emission Level = Reading + Factor

3) The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

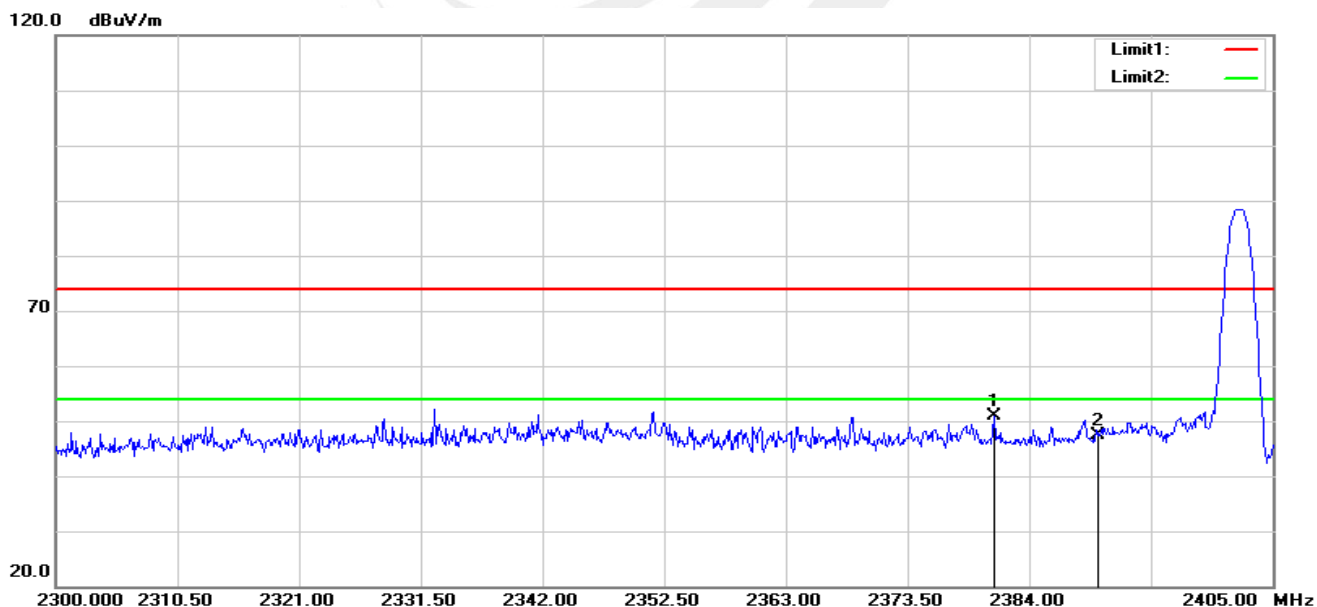


Band edge Requirements

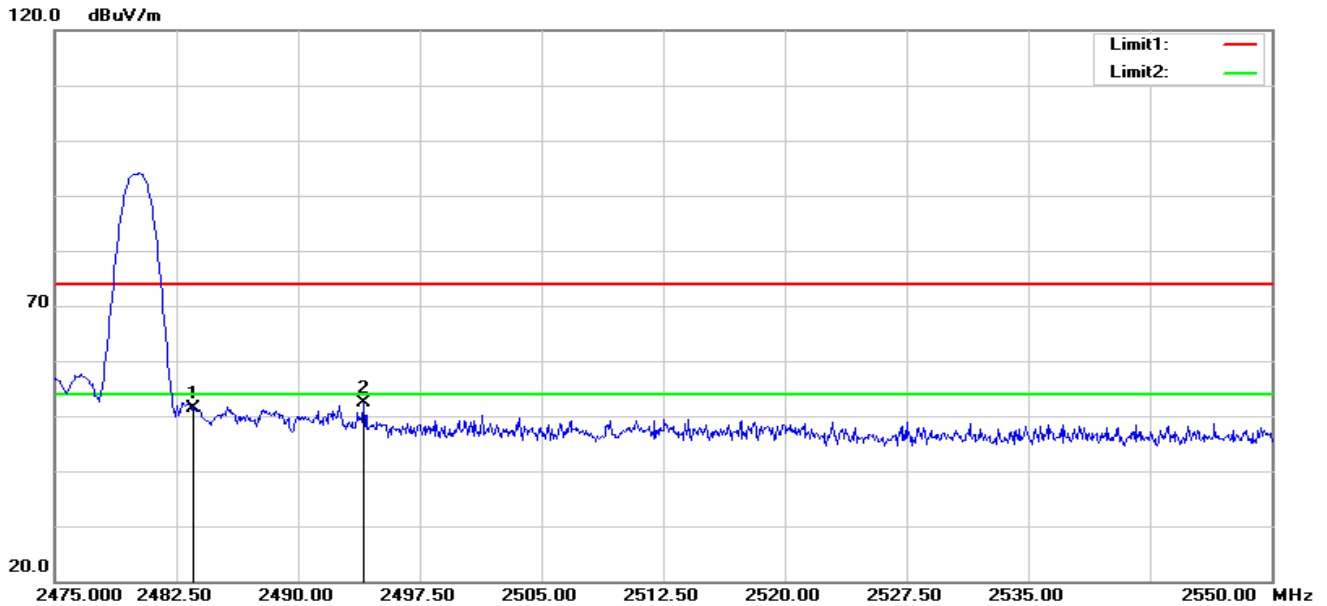
GFSK-Low
Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2384.525	60.58	-10.51	50.07	74.00	-23.93	peak
2	2390.000	58.05	-10.48	47.57	74.00	-26.43	peak

Vertical

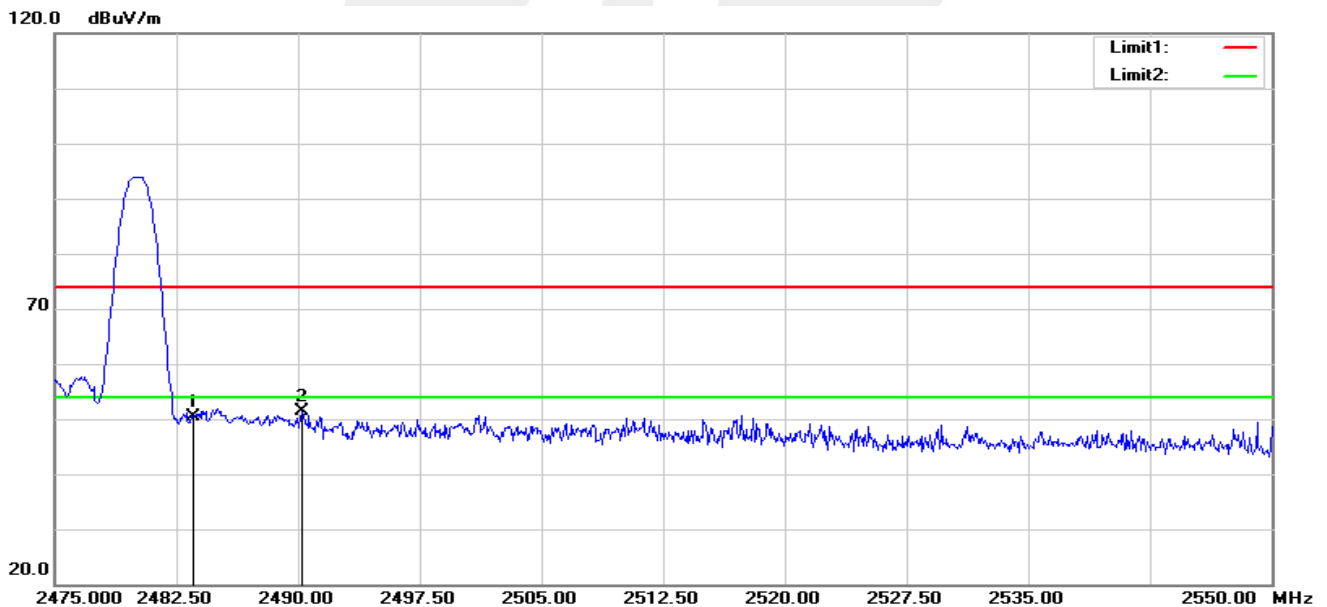


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2380.955	61.44	-10.54	50.90	74.00	-23.10	peak
2	2390.000	57.87	-10.48	47.39	74.00	-26.61	peak

**GFSK-High**
Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	61.32	-9.99	51.33	74.00	-22.67	peak
2	2494.050	62.24	-9.94	52.30	74.00	-21.70	peak

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	60.33	-9.99	50.34	74.00	-23.66	peak
2	2490.225	61.26	-9.96	51.30	74.00	-22.70	peak

Note: GFSK, $\pi/4$ -DQPSK, 8DPSK of the nohopping and hopping mode all have been test, the worst case is GFSK of the nohopping mode, this report only show the worst case.

4. CONDUCTED SPURIOUS & BAND EDGE EMISSION

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

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– 2403 MHz Upper Band Edge: 2479 – 2500 MHz
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

Remark : Hopping on and Hopping off mode all have been tested,only worst case hopping off is reported.

4.3 TEST SETUP



The EUT 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

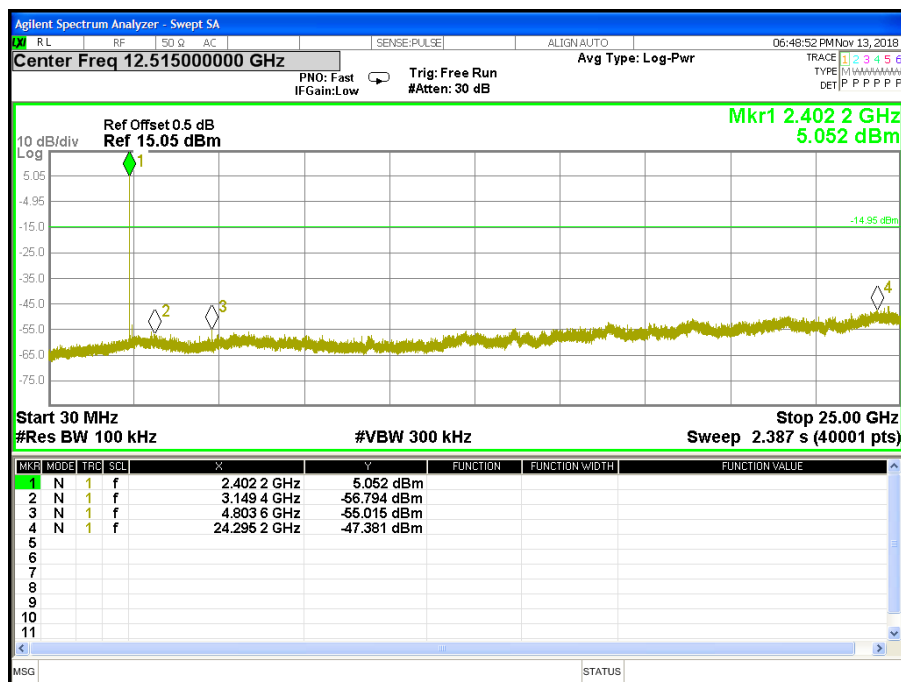
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



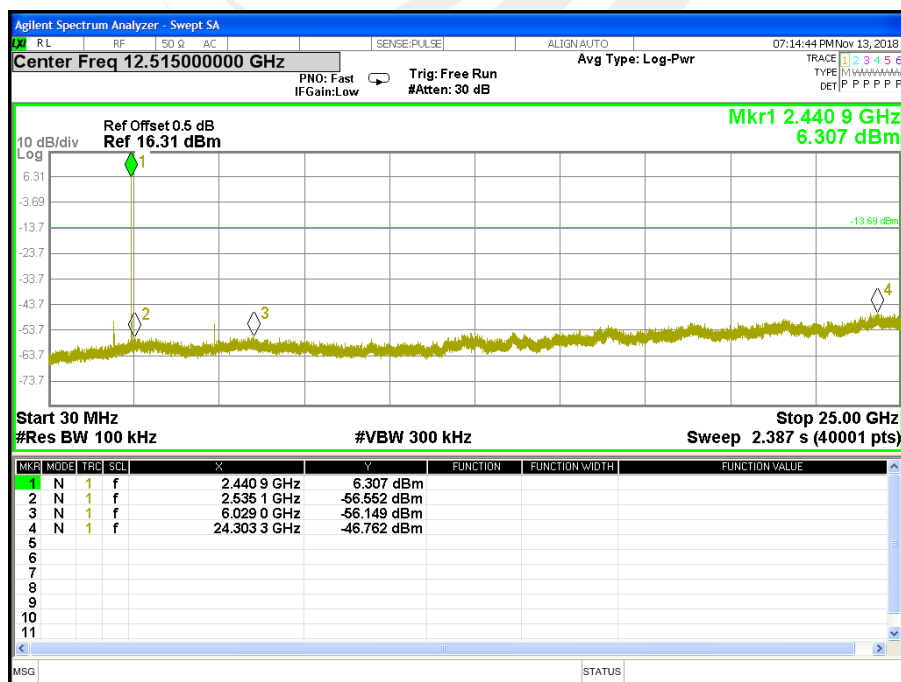
4.5 TEST RESULTS

Temperature:	25°C	Relative Humidity:	50%
Test Mode:	GFSK(1Mbps)-00/39/78 CH	Test Voltage:	DC 3.85V

00 CH

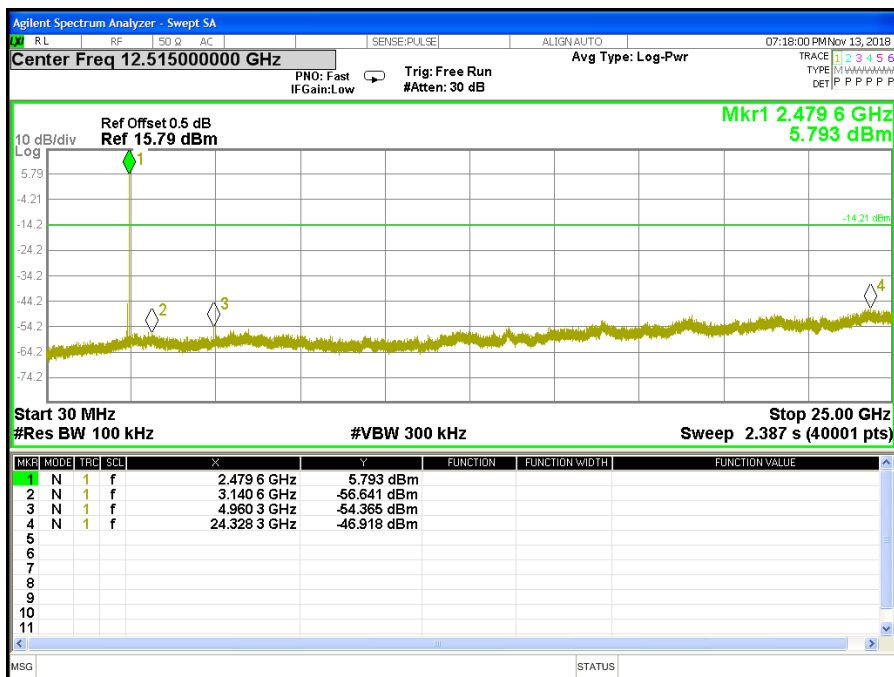


39 CH





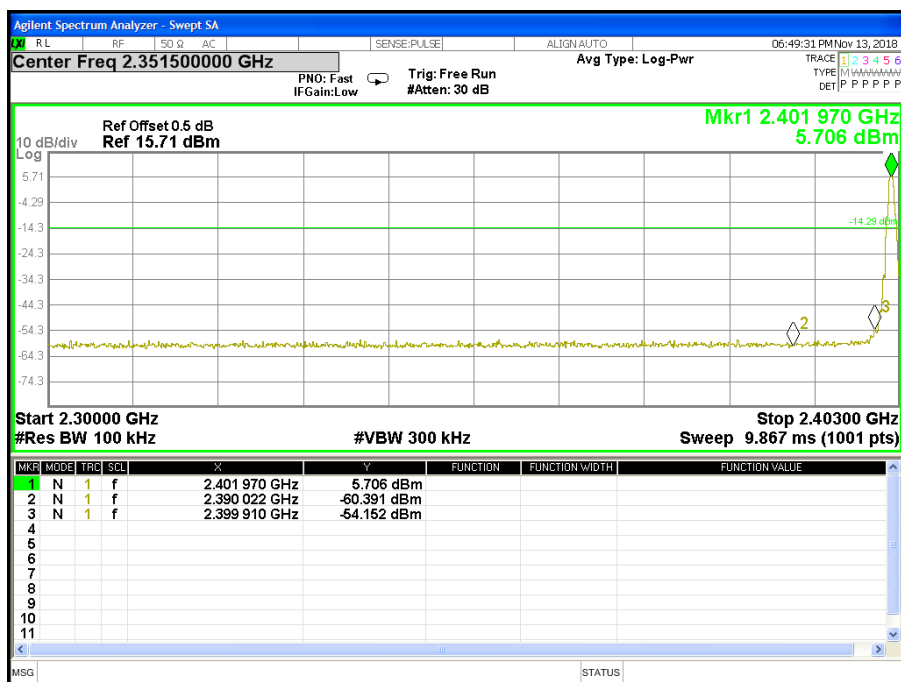
78 CH



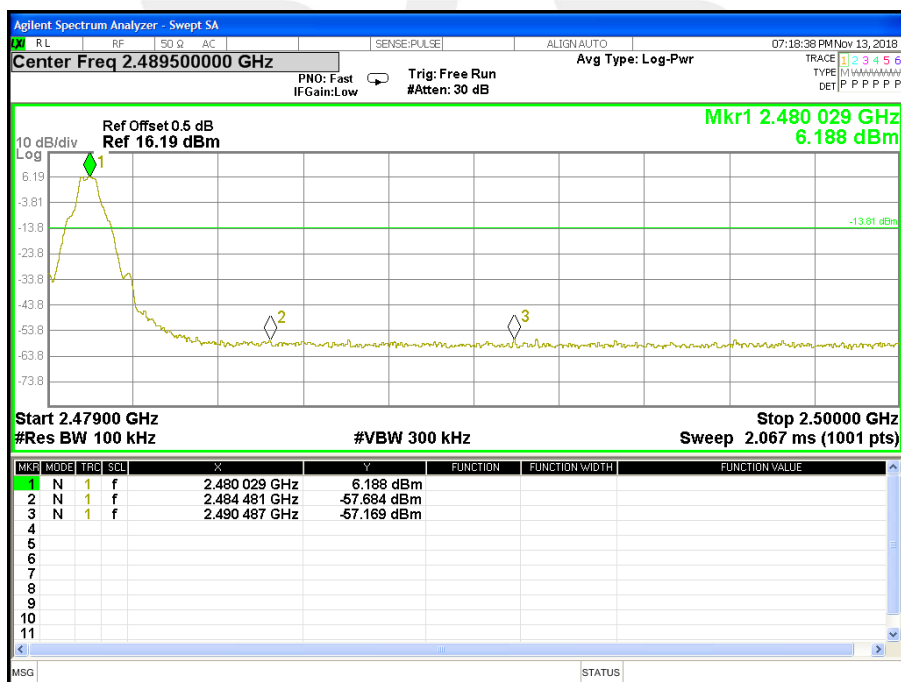


For Band edge

00 CH



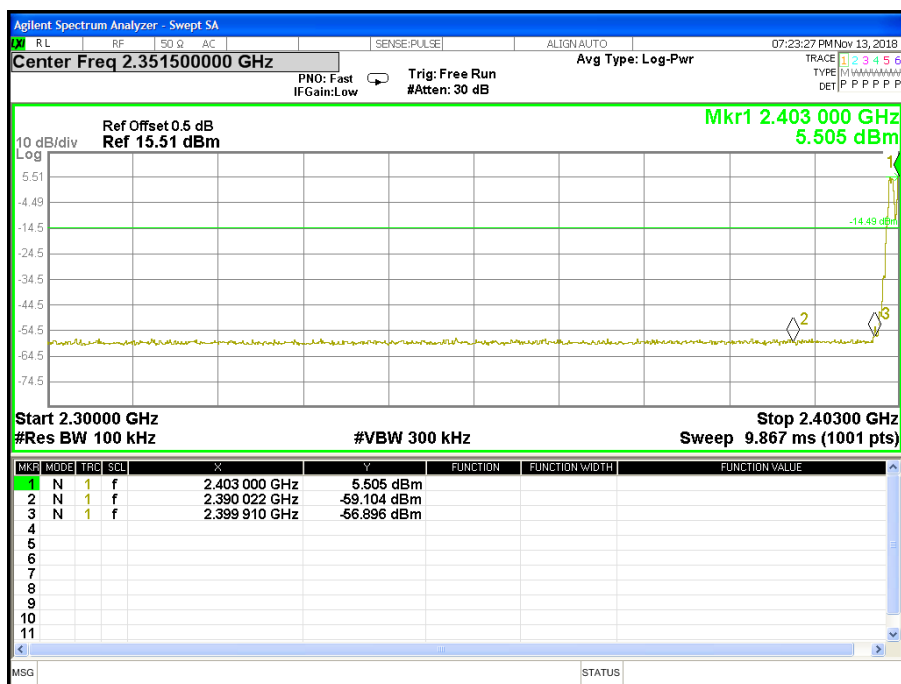
78 CH



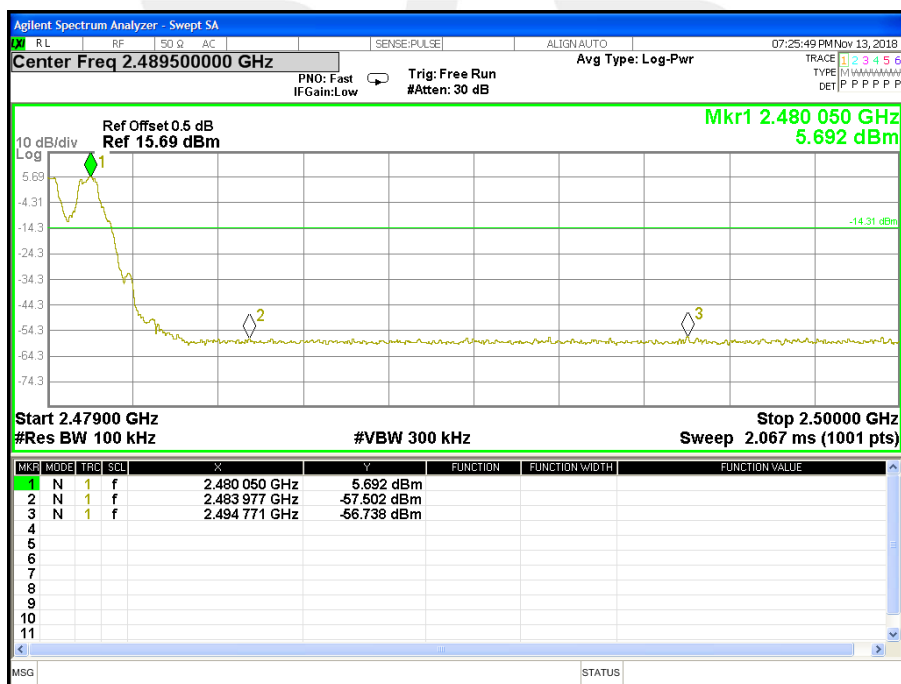


For Hopping Band edge

00 CH



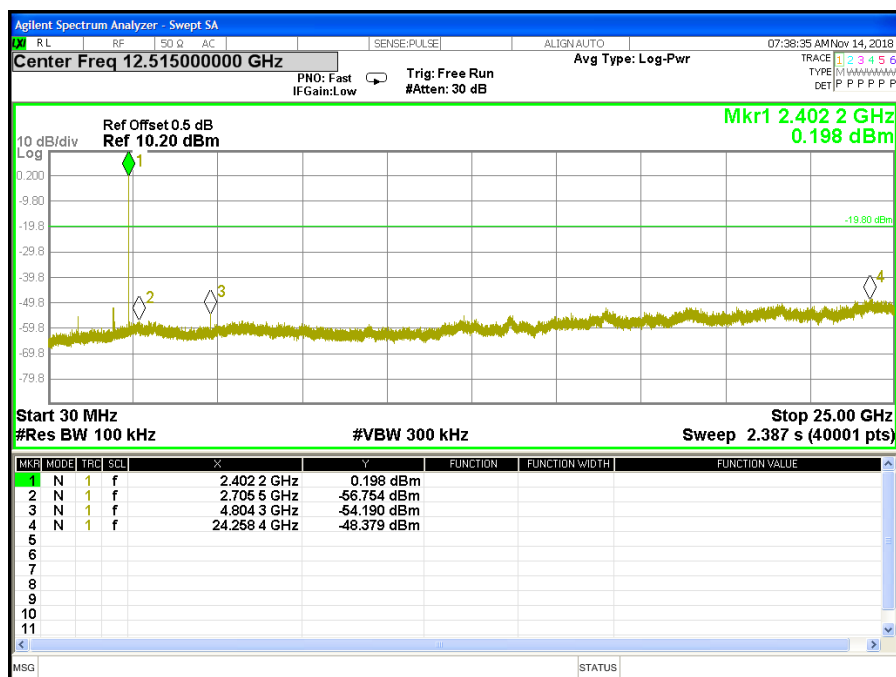
78 CH



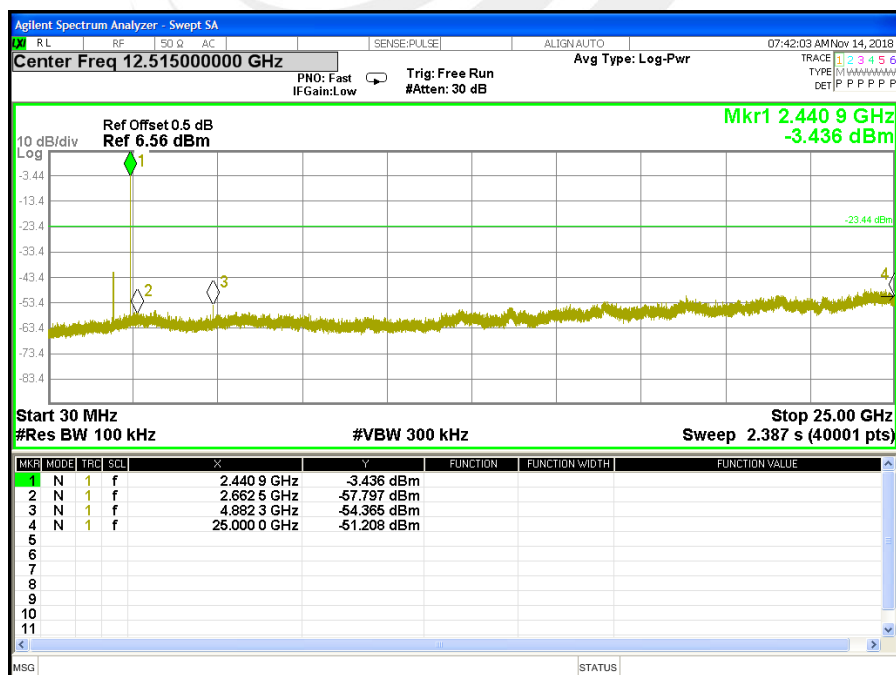


Temperature:	25°C	Relative Humidity:	50%
Test Mode:	$\pi/4$ -DQPSK(2Mbps)- 00/39/78 CH	Test Voltage:	DC 3.85V

00 CH

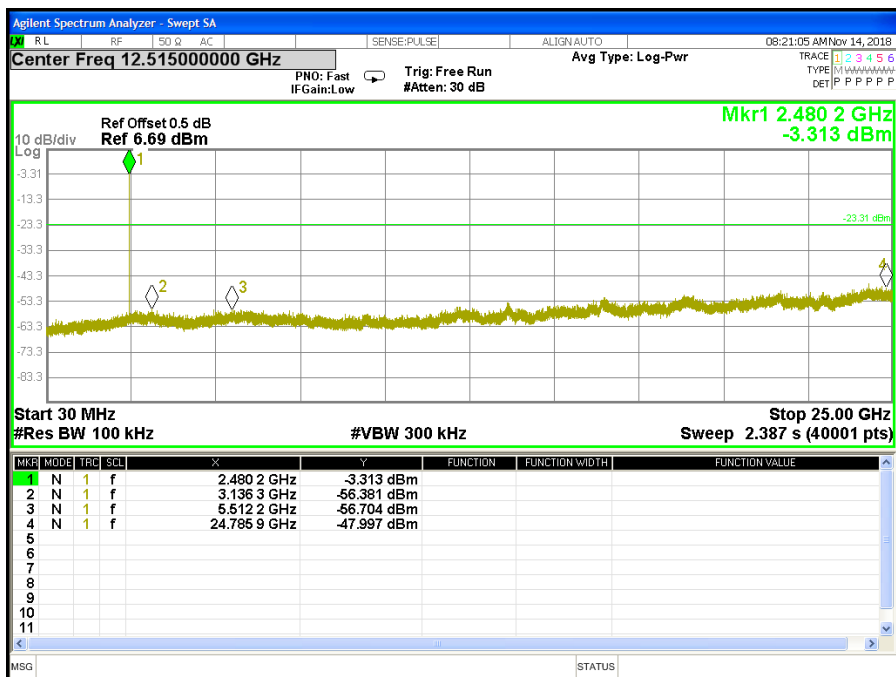


39 CH





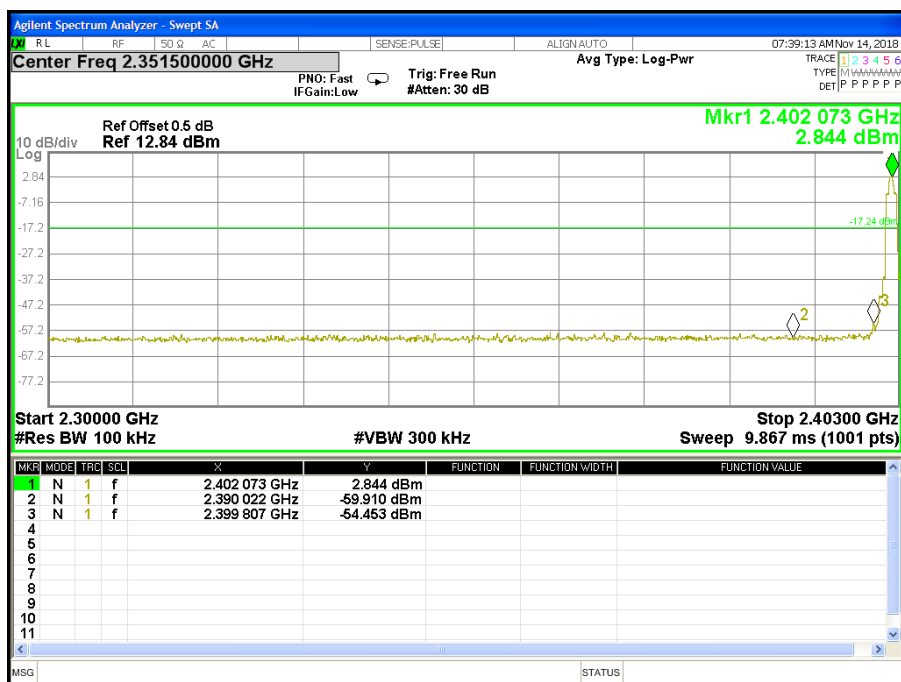
78 CH



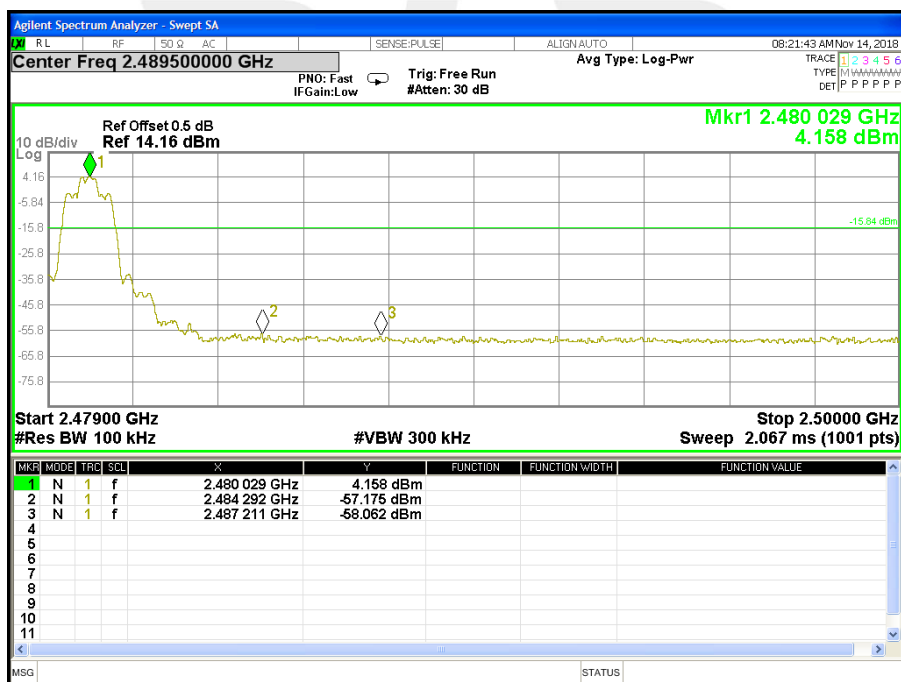


For Band edge

00 CH



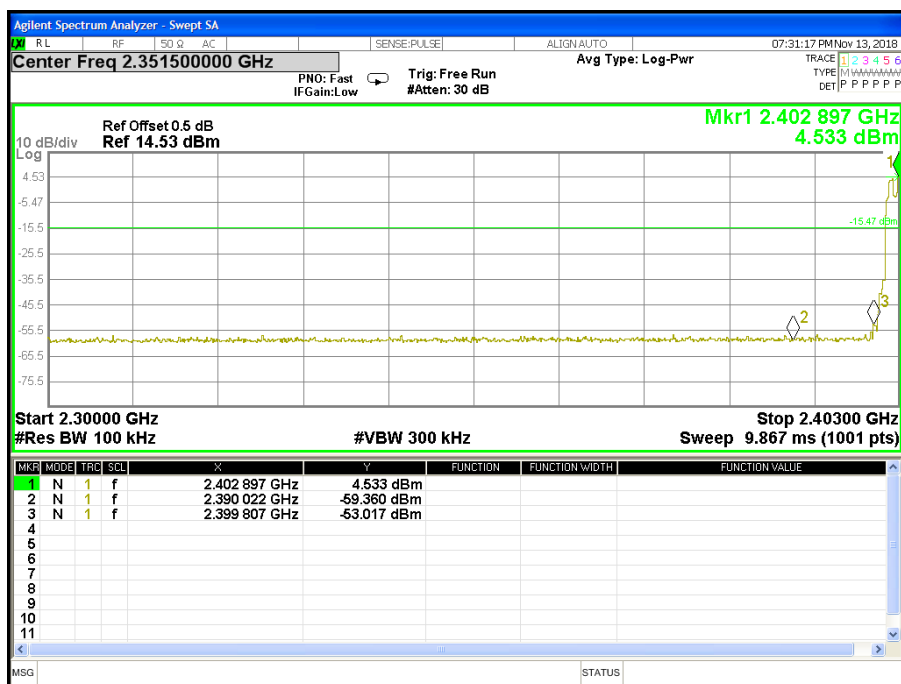
78 CH



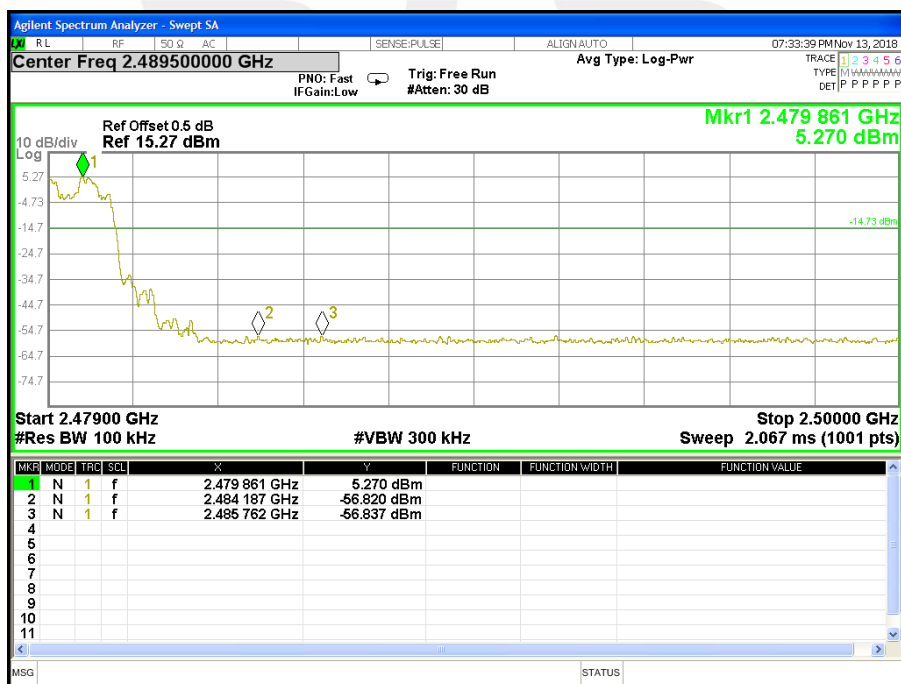


For Hopping Band edge

00 CH



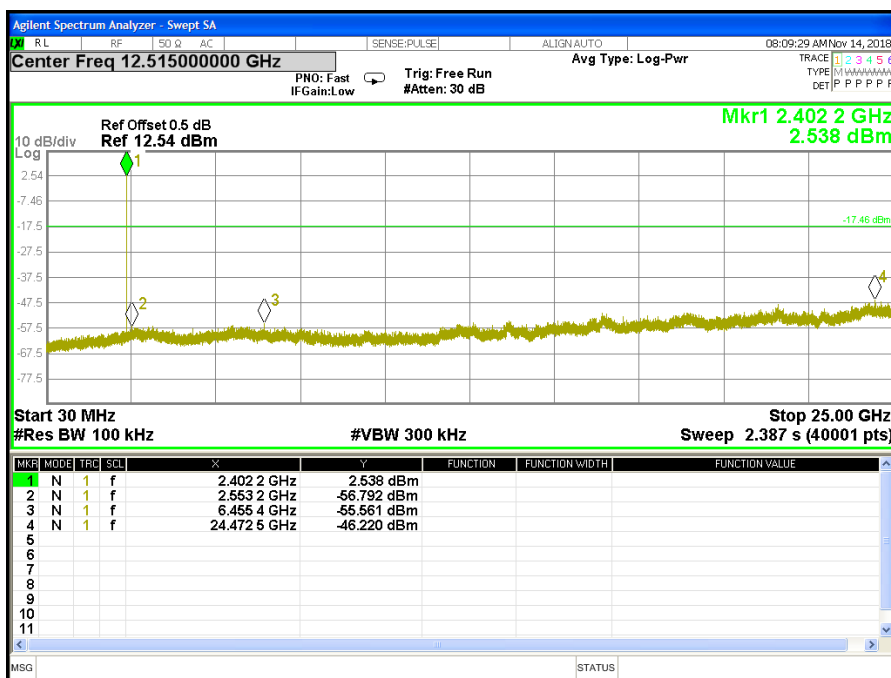
78 CH



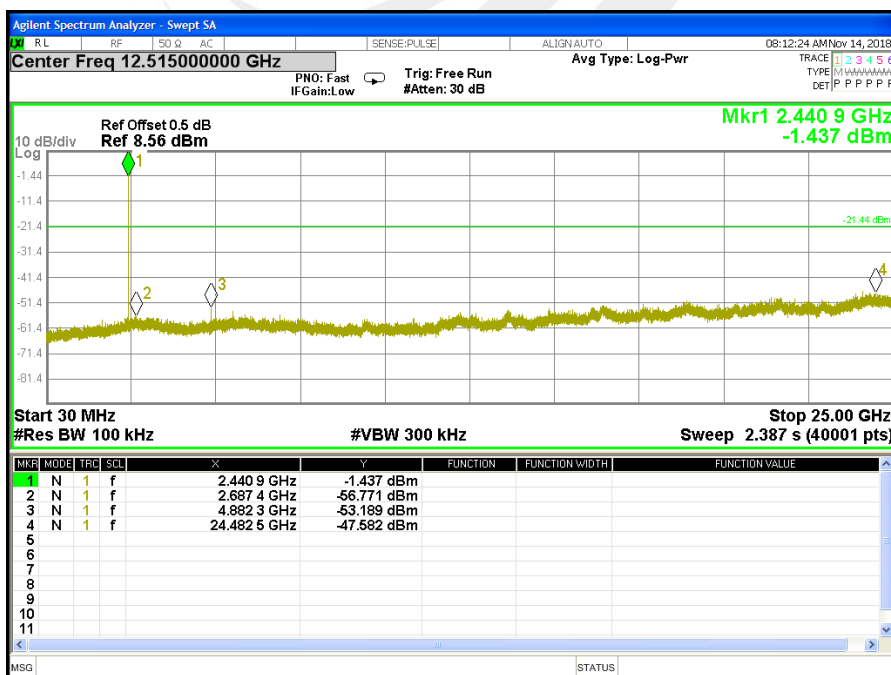


Temperature:	25°C	Relative Humidity:	50%
Test Mode:	8DPSK(3Mbps) -00/39/78 CH	Test Voltage:	DC 3.85V

00 CH

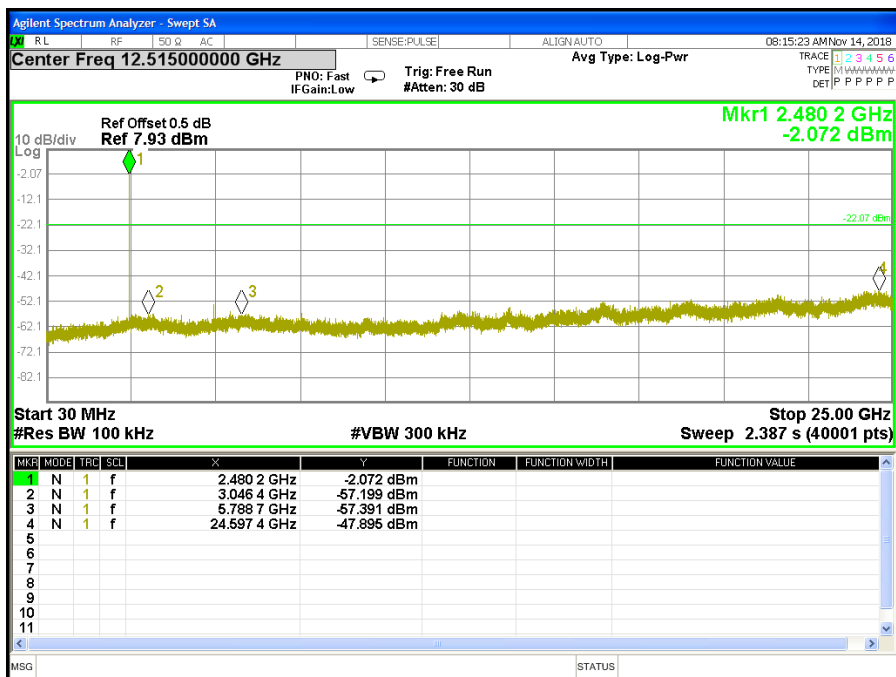


39 CH





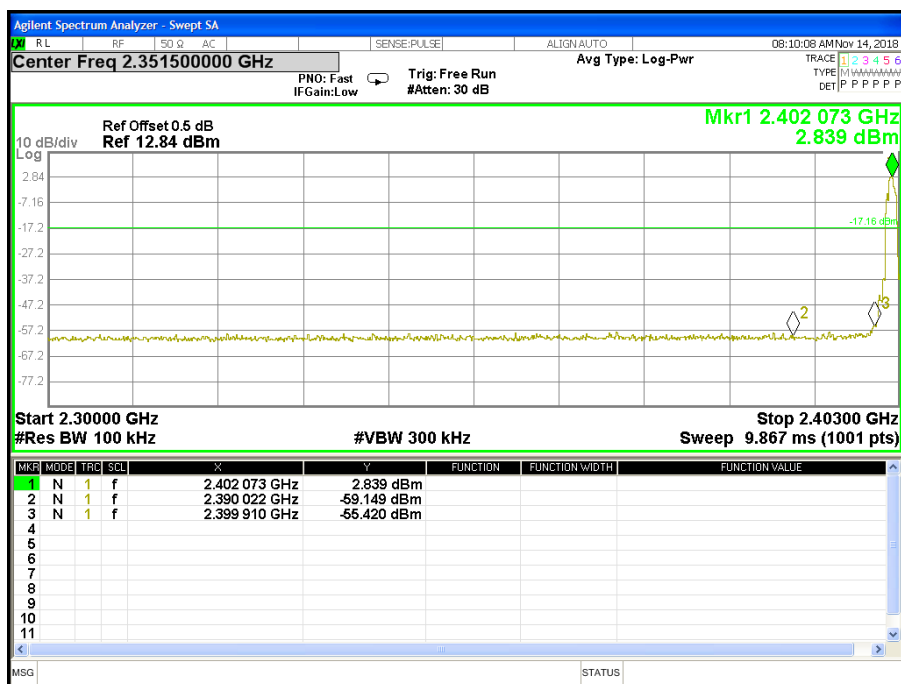
78 CH



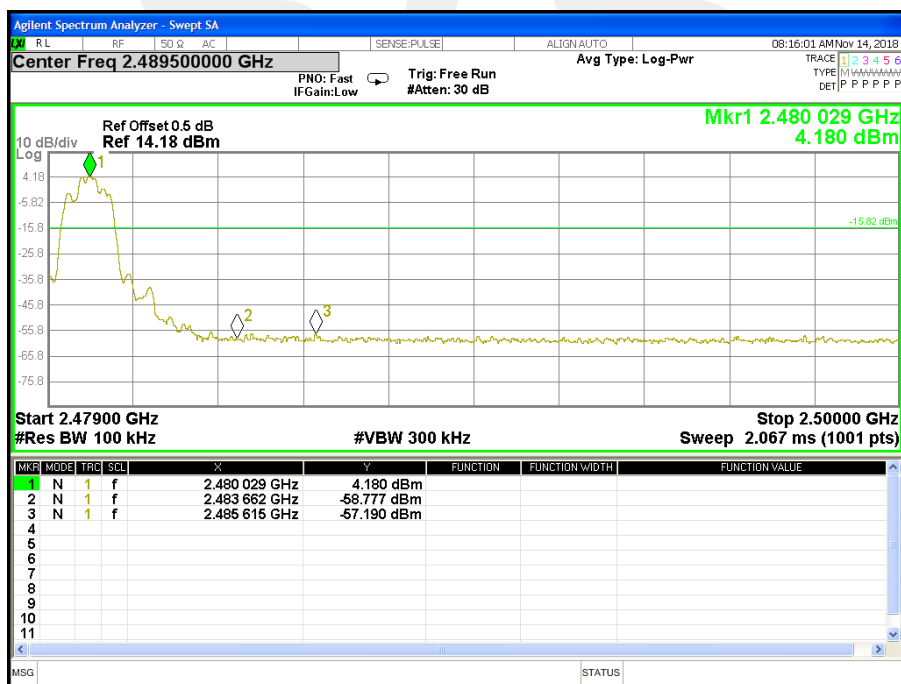


For Band edge

00 CH



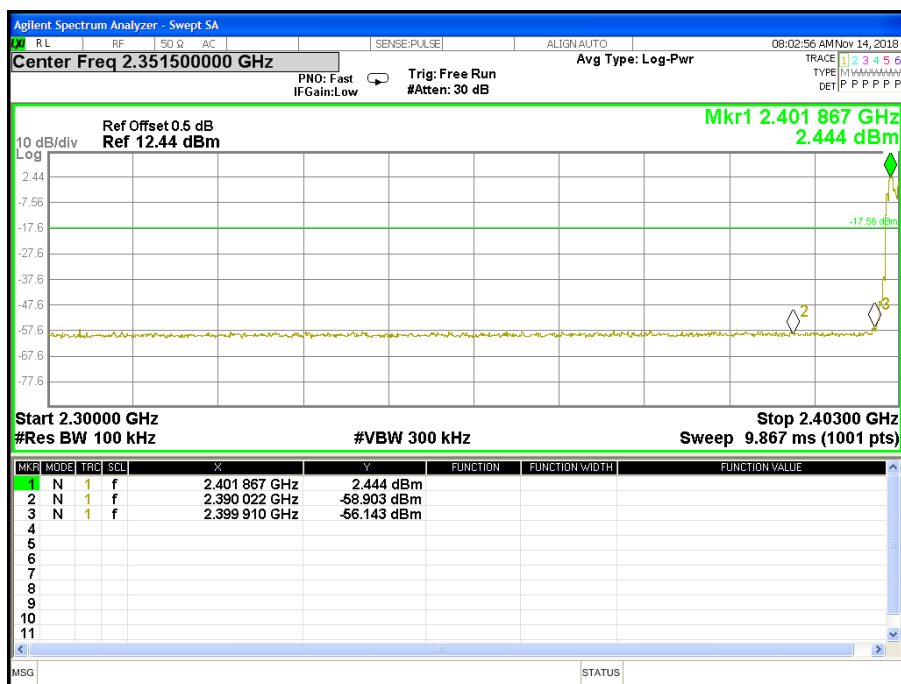
78 CH



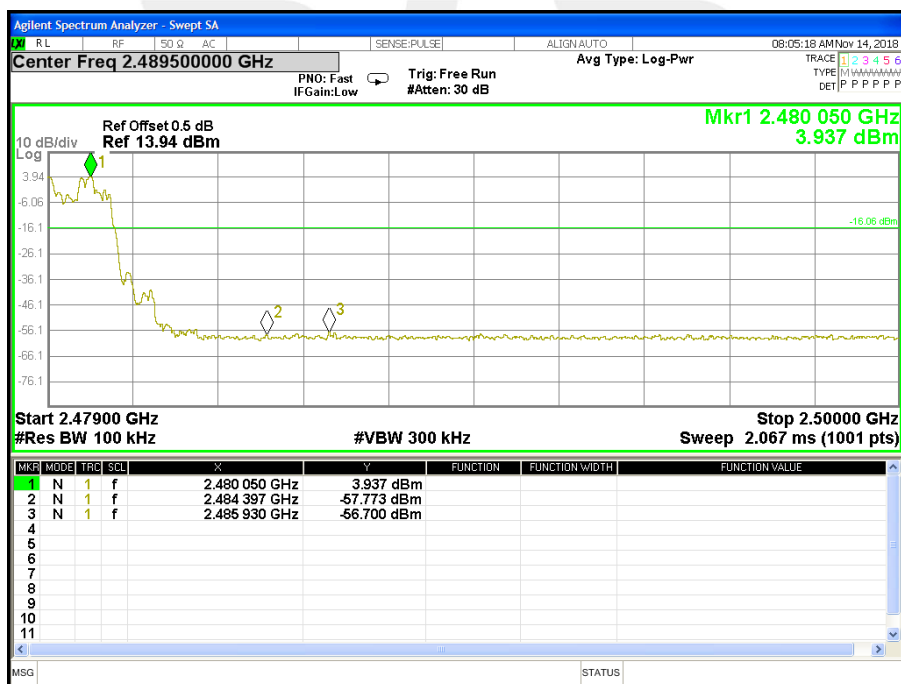


For Hopping Band edge

00 CH



78 CH





5. NUMBER OF HOPPING CHANNEL

5.1 LIMIT

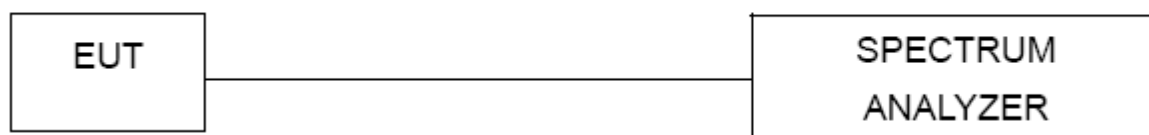
FCC Part 15.247, Subpart C				
Section	Test Item	Limit	FrequencyRange (MHz)	Result
15.247 (a)(1)(iii)	Number of Hopping Channel	≥ 15	2400-2483.5	PASS

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Operating FrequencyRange
RB	1MHz
VB	1MHz
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= 1MHz, VBW=1MHz, 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.



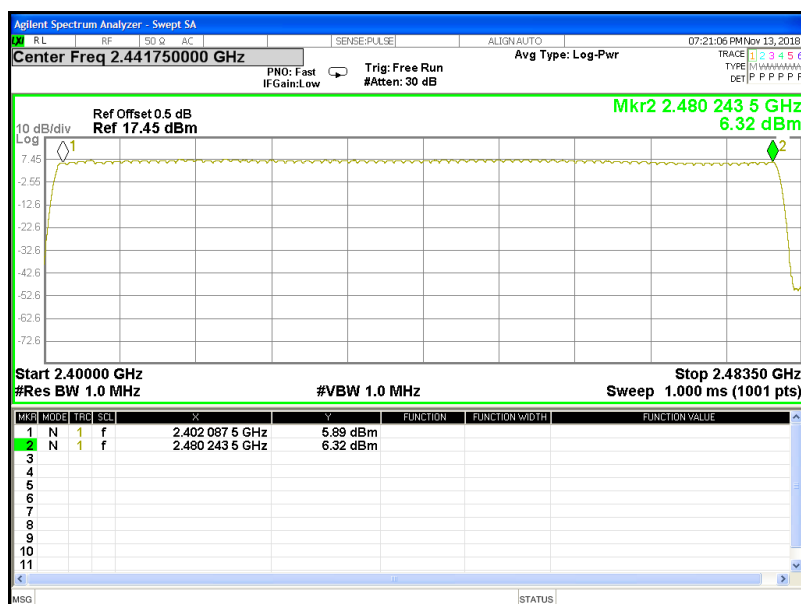
5.5 TEST RESULTS

Temperature:	25℃	Relative Humidity:	60%
Test Mode:	Hopping Mode-GFSK Mode	Test Voltage:	DC 3.85V

Number of Hopping Channel

79

Hopping channel





6. AVERAGE TIME OF OCCUPANCY

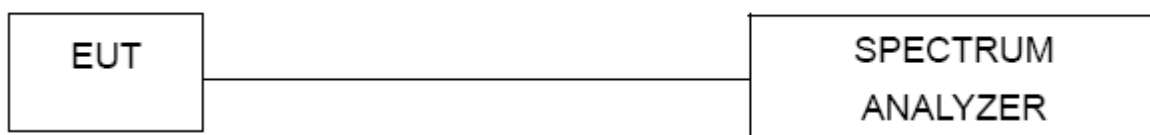
6.1 LIMIT

FCC Part 15.247, Subpart C				
Section	Test Item	Limit	FrequencyRange (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 =1MHz/VBW =3MHz.
- 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

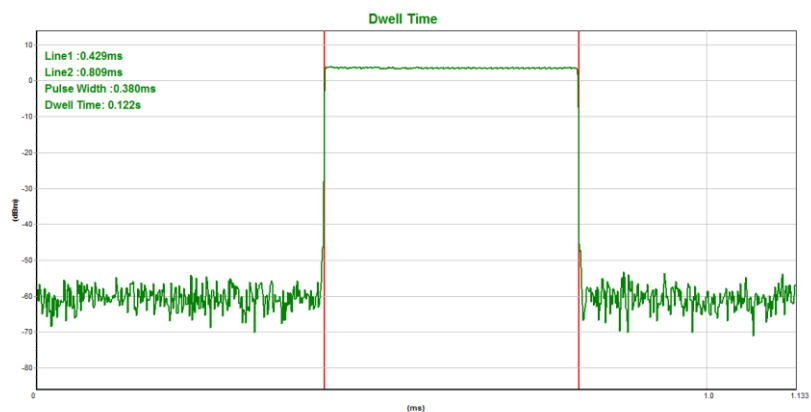
Temperature:	25℃	Relative Humidity:	50%
Test Mode:	GFSK(1Mbps)-DH1/DH3/DH5	Test Voltage:	DC 3.85V

Data Packet	Frequency	Pulse Duration(ms)	Dwell Time(s)	Limits(s)
DH1	2441 MHz	0.380	0.122	0.4
DH3	2441 MHz	1.636	0.262	0.4
DH5	2441 MHz	2.893	0.309	0.4

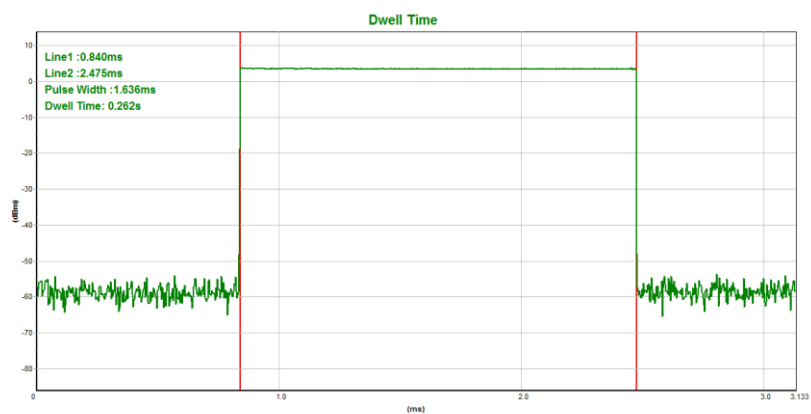




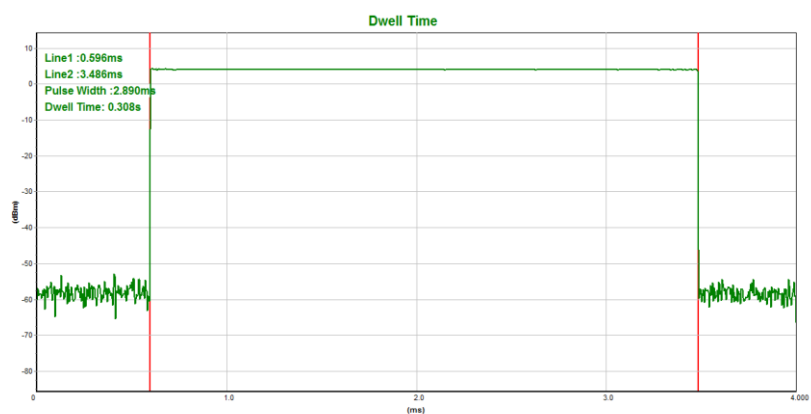
CH39-DH1



CH39-DH3



CH39-DH5





Temperature:	25℃	Relative Humidity:	50%
Test Mode:	$\pi/4$ -DQPSK(2Mbps)- 2DH1/2DH3/2DH5	Test Voltage:	DC 3.85V

Data Packet	Frequency	Pulse Duration(ms)	Dwell Time(s)	Limits(s)
2DH1	2441 MHz	0.388	0.124	0.4
2DH3	2441 MHz	1.639	0.262	0.4
2DH5	2441 MHz	2.893	0.309	0.4

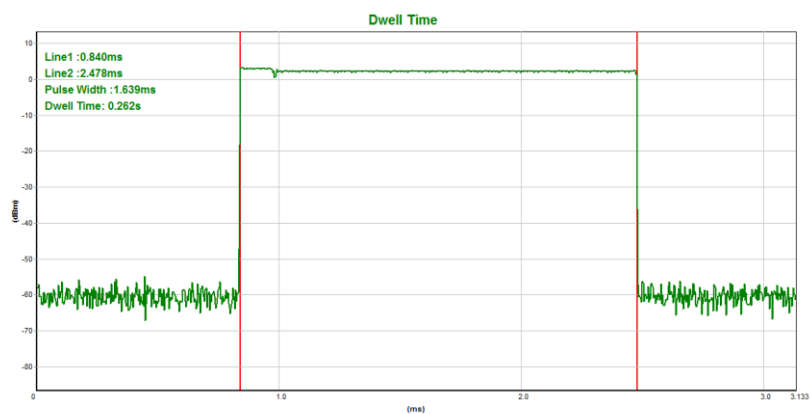




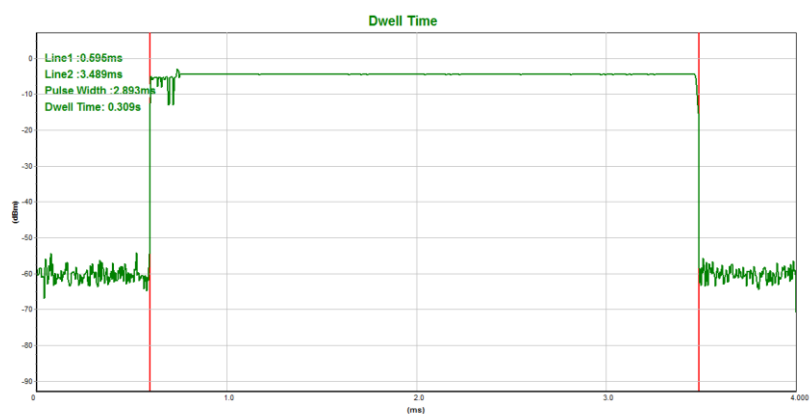
CH39-2DH1



CH39-2DH3



CH39-2DH5





Temperature:	25℃	Relative Humidity:	50%
Test Mode:	8DPSK(3Mbps)– 3DH1/3DH3/3DH5	Test Voltage:	DC 3.85V

Data Packet	Frequency	Pulse Duration(ms)	Dwell Time(s)	Limits(s)
3DH1	2441 MHz	0.389	0.124	0.4
3DH3	2441 MHz	1.643	0.263	0.4
3DH5	2441 MHz	2.894	0.309	0.4

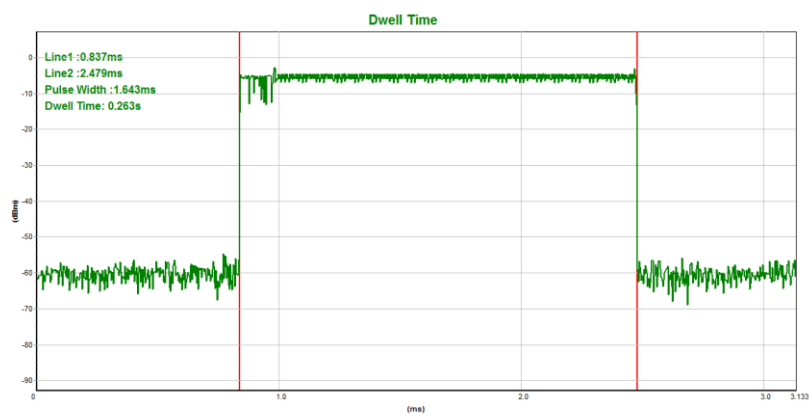




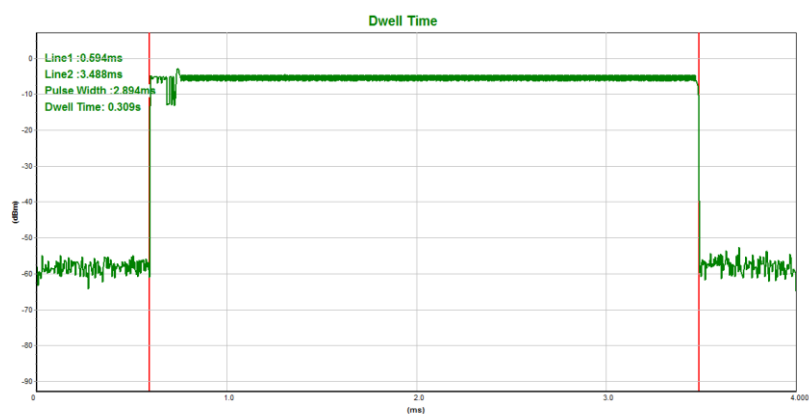
CH39-3DH1



CH39-3DH3



CH39-3DH5



7. HOPPING CHANNEL SEPARATION MEASUREMENT

7.1 LIMIT

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> 20 dB 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.



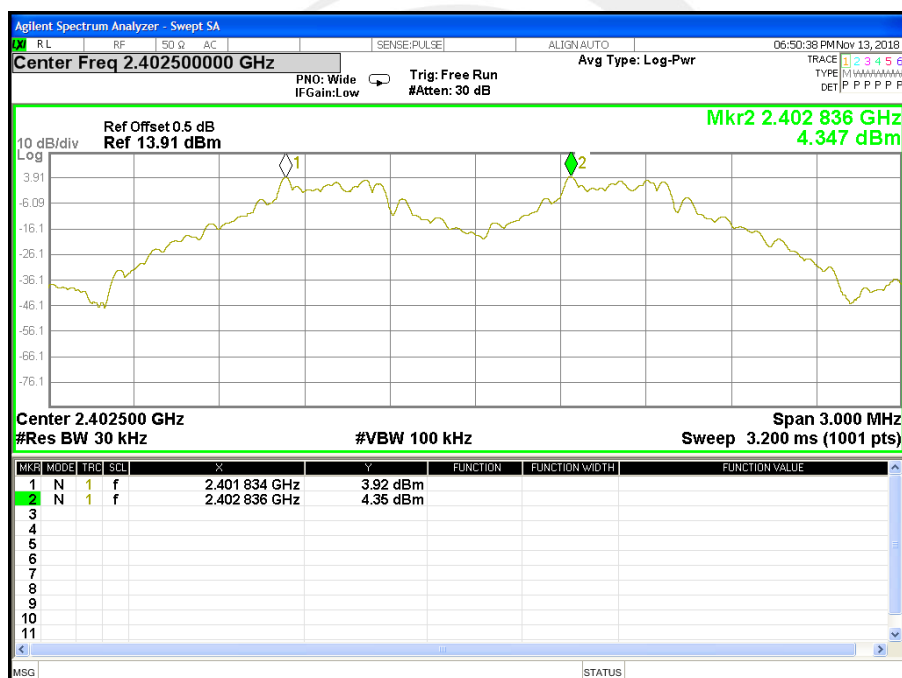
7.5 TEST RESULTS

Temperature:	25°C	Relative Humidity:	50%
Test Mode:	CH00 / CH39 / CH78 (GFSK(1Mbps) Mode)	Test Voltage:	DC 3.85V

Frequency	Ch. Separation (MHz)	Limit	Result
2402 MHz	1.002	0.888	Complies
2441 MHz	1.002	0.851	Complies
2480 MHz	0.999	0.850	Complies

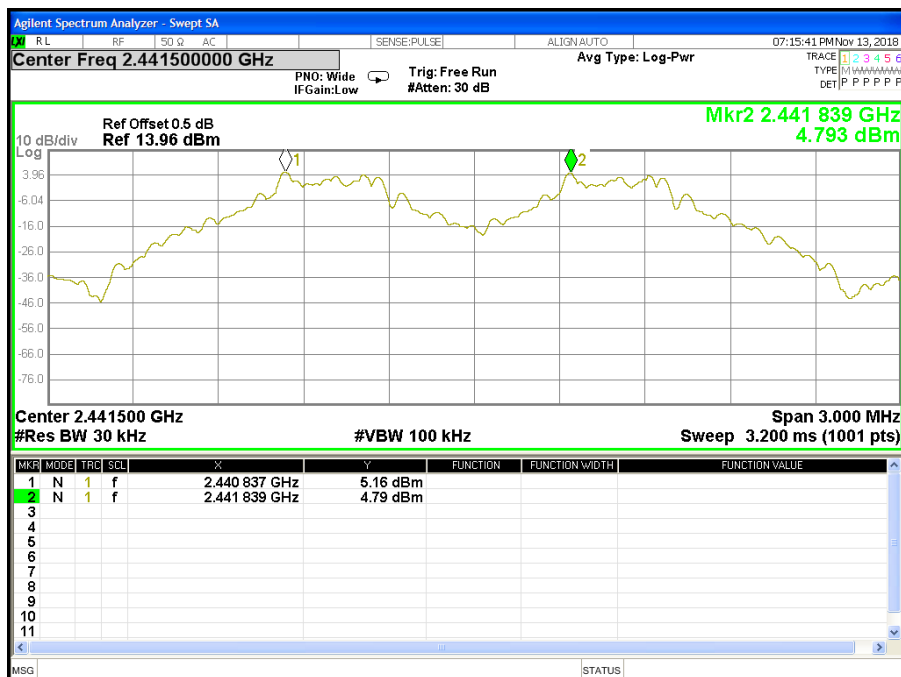
For GFSK: Ch. Separation Limits: > 20dB bandwidth

CH00 -1Mbps

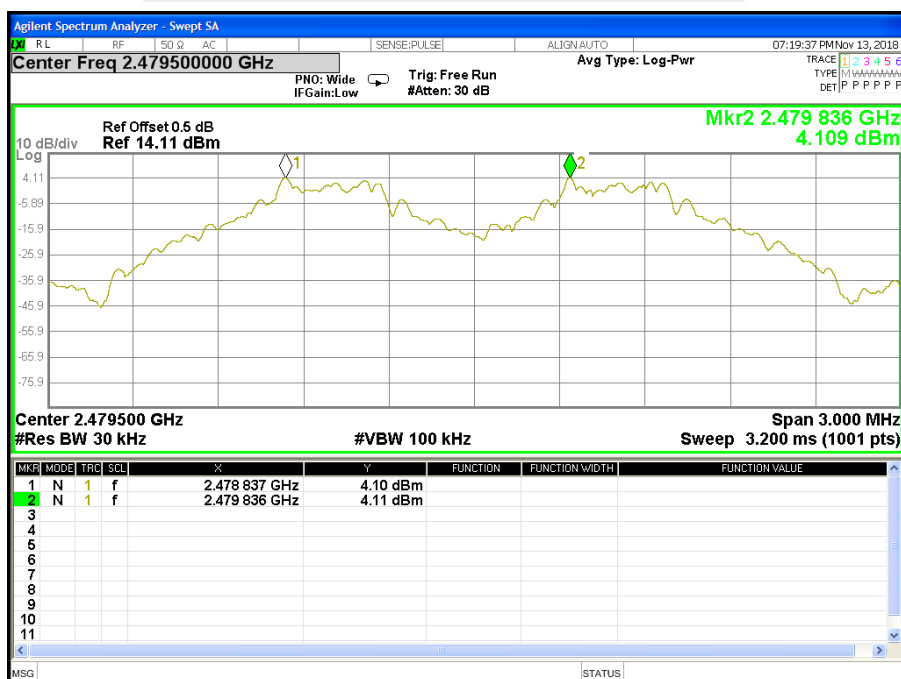




CH39 -1Mbps



CH78 -1Mbps



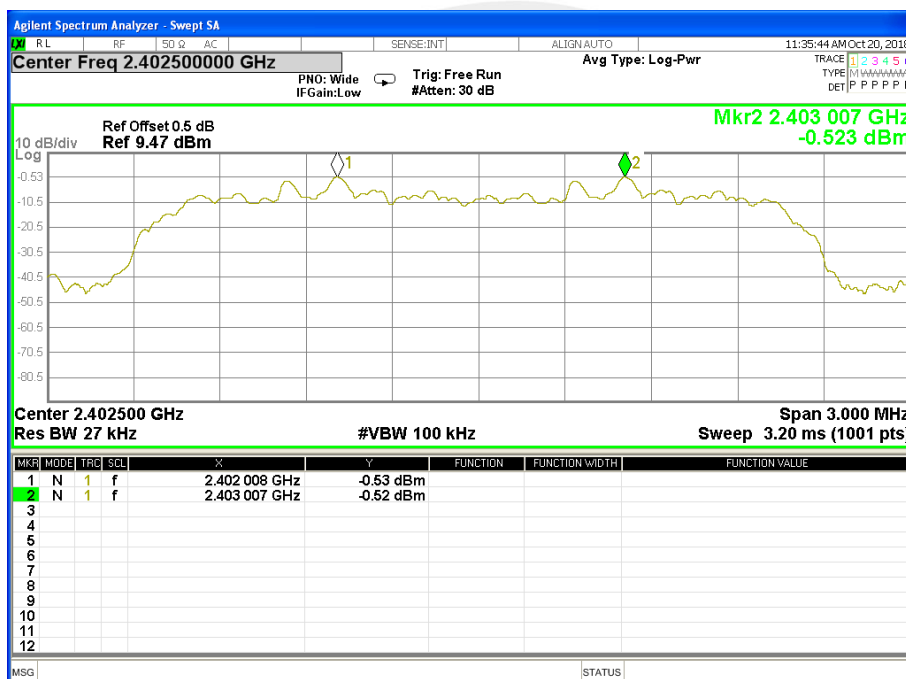


Temperature:	25°C	Relative Humidity:	50%
Test Mode:	CH00 / CH39 / CH78 ($\pi/4$ -DQPSK(2Mbps) Mode)	Test Voltage:	DC 3.85V

Frequency	Ch. Separation (MHz)	Limit	Result
2402 MHz	0.998	0.883	Complies
2441 MHz	0.999	0.882	Complies
2480 MHz	0.999	0.882	Complies

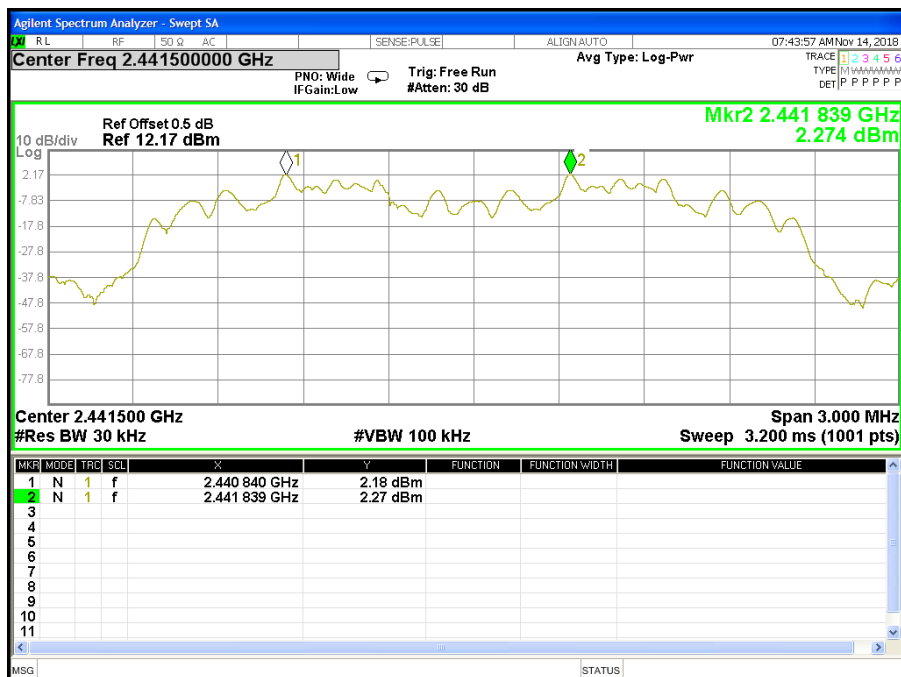
For $\pi/4$ -DQPSK(2Mbps): Ch. Separation Limits: > two-thirds 20dB bandwidth

CH00 -2Mbps

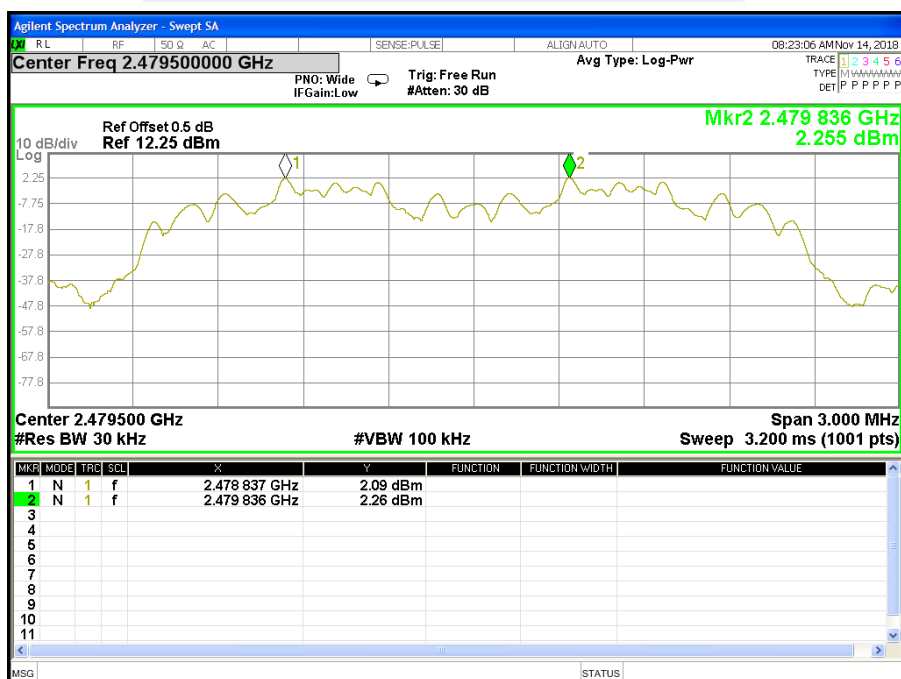




CH39 -2Mbps



CH78 -2Mbps



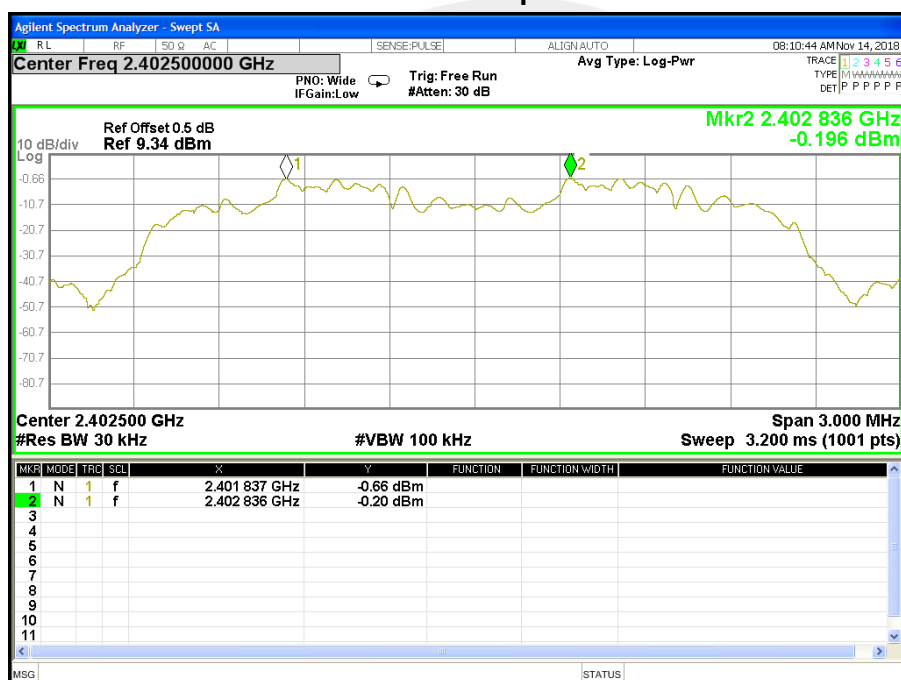


Temperature:	25°C	Relative Humidity:	50%
Test Mode:	CH00 / CH39 / CH78 (8DPSK(3Mbps)Mode)	Test Voltage:	DC 3.85V

Frequency	Ch. Separation (MHz)	Limit	Result
2402 MHz	0.999	0.851	Complies
2441 MHz	1.002	0.851	Complies
2480 MHz	1.002	0.851	Complies

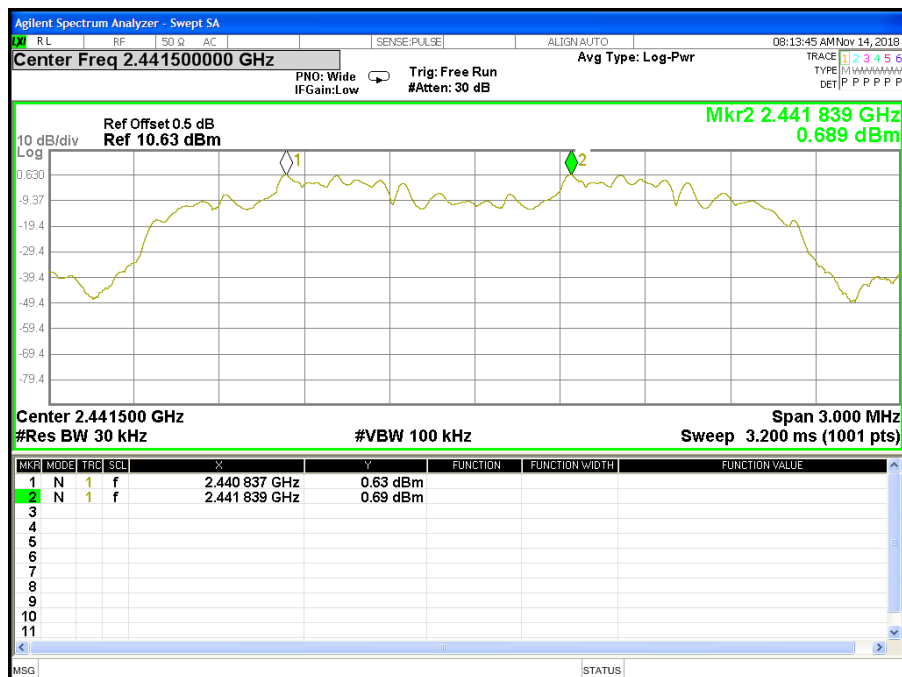
For 8DPSK(3Mbps):Ch. Separation Limits: > two-thirds 20dB bandwidth

CH00 -3Mbps

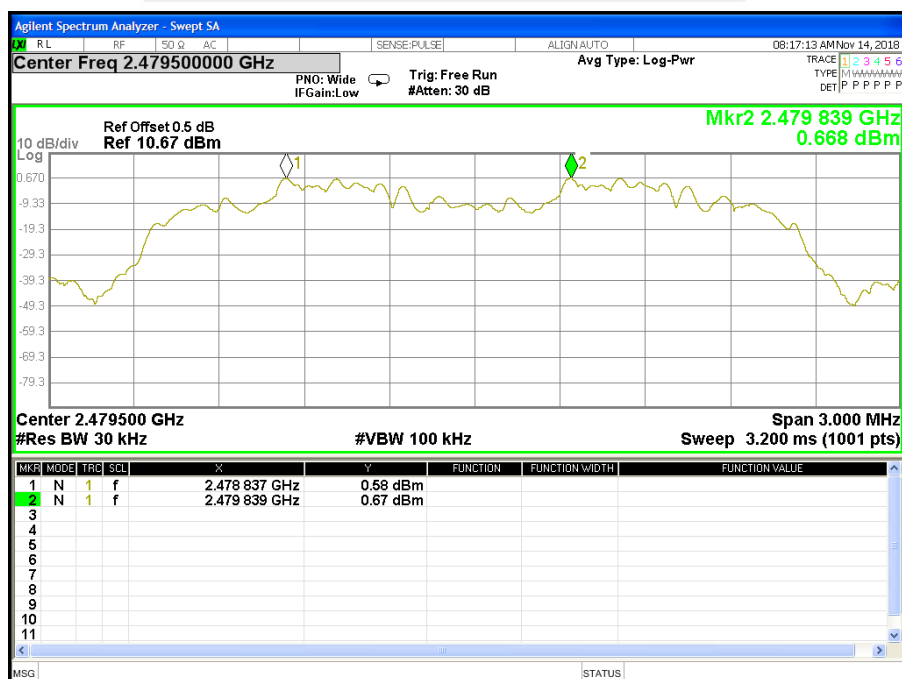




CH39 -3Mbps



CH78 -3Mbps





8. BANDWIDTH TEST

8.1 LIMIT

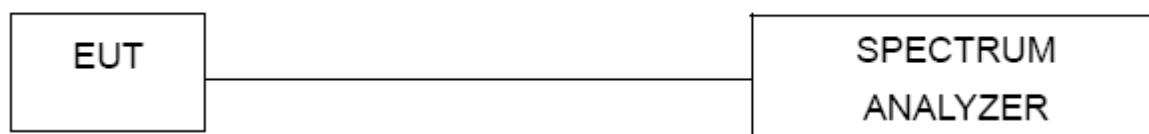
FCC Part15 15.247,Subpart C				
Section	Test Item	Limit	FrequencyRange (MHz)	Result
15.247 (a)(1)	Bandwidth	(20dB bandwidth)	2400-2483.5	PASS

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.

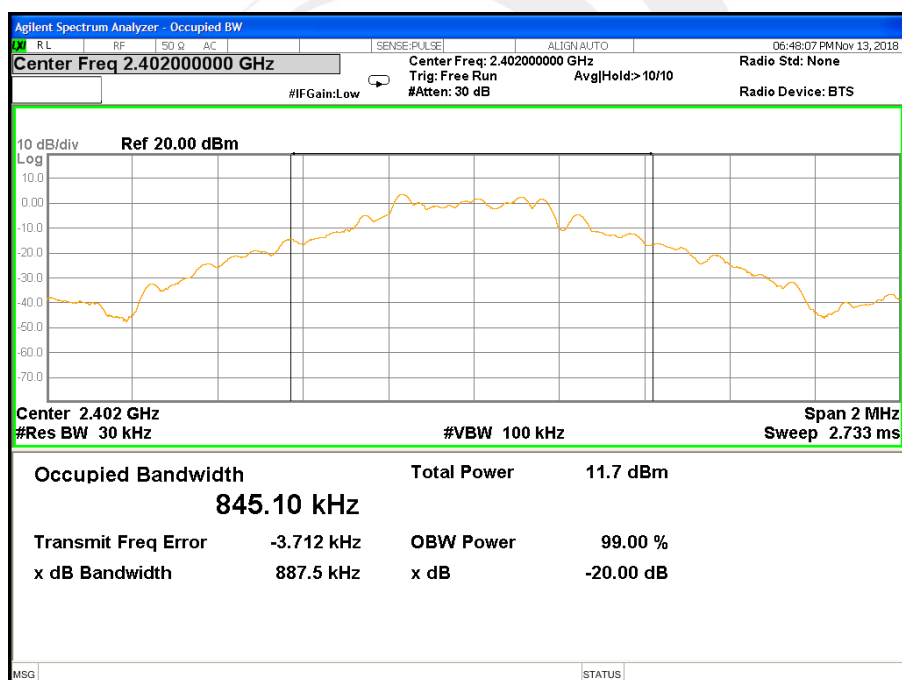


8.5 TEST RESULTS

Temperature:	25°C	Relative Humidity:	50%
Test Mode:	GFSK(1Mbps) CH00 / CH39 / C78	Test Voltage:	DC 3.85V

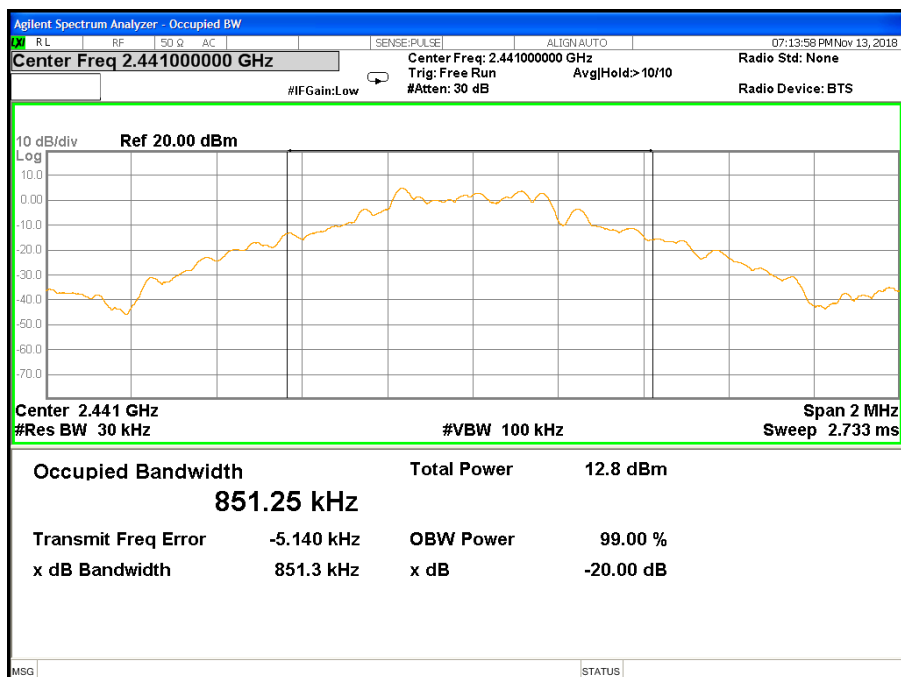
Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	0.888	PASS
2441 MHz	0.851	PASS
2480 MHz	0.850	PASS

CH00 -1Mbps

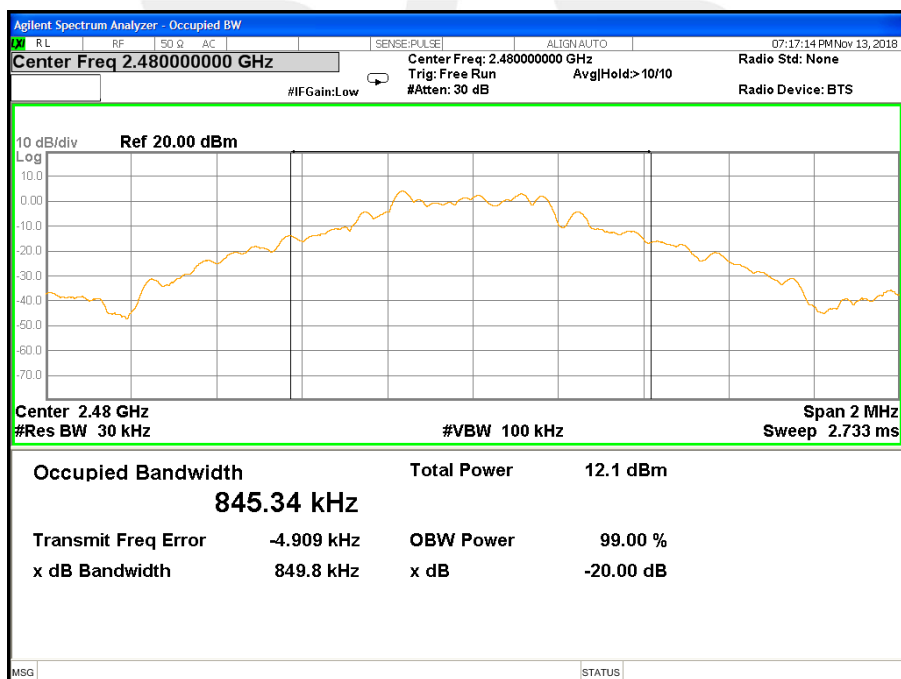




CH39 -1Mbps



CH78 -1Mbps

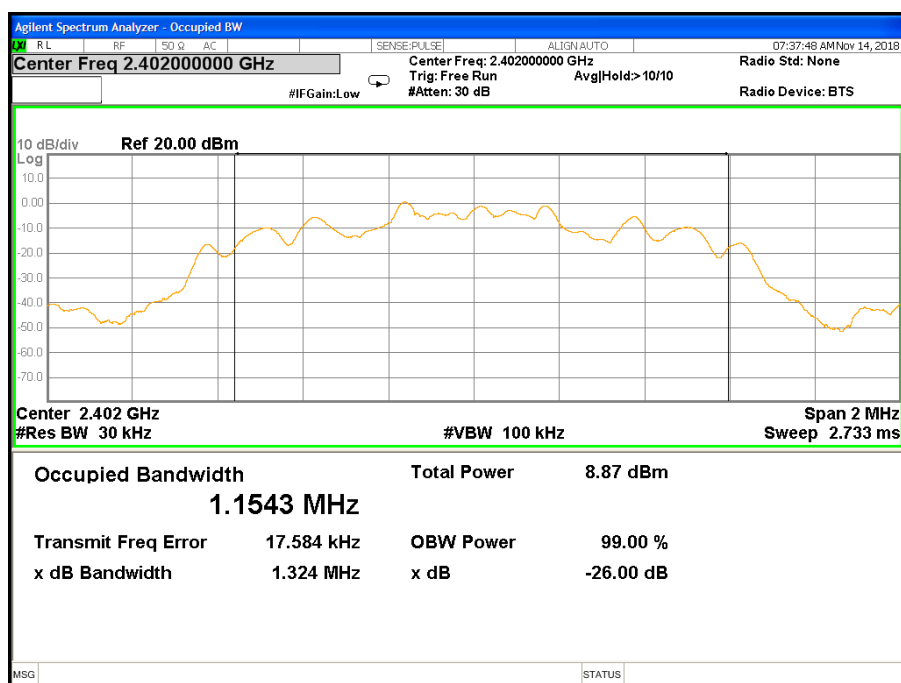




Temperature:	25°C	Relative Humidity:	50%
Test Mode:	$\pi/4$ -DQPSK(2Mbps) CH00 / CH39 / C78	Test Voltage:	DC 3.85V

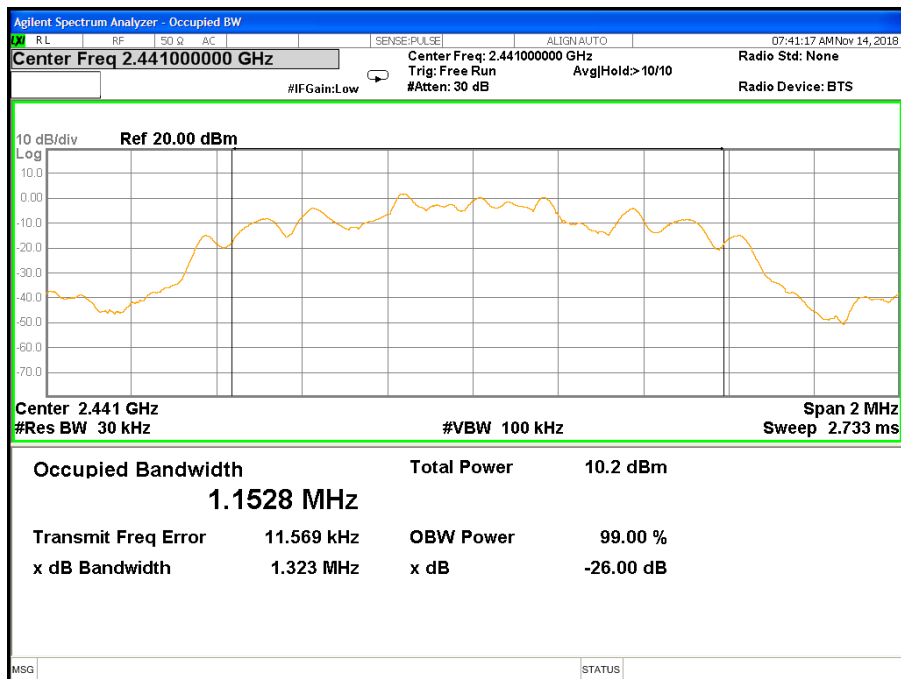
Frequency	20dB Bandwidth(MHz)	Result
2402 MHz	1.324	PASS
2441 MHz	1.323	PASS
2480 MHz	1.323	PASS

CH00 -2Mbps

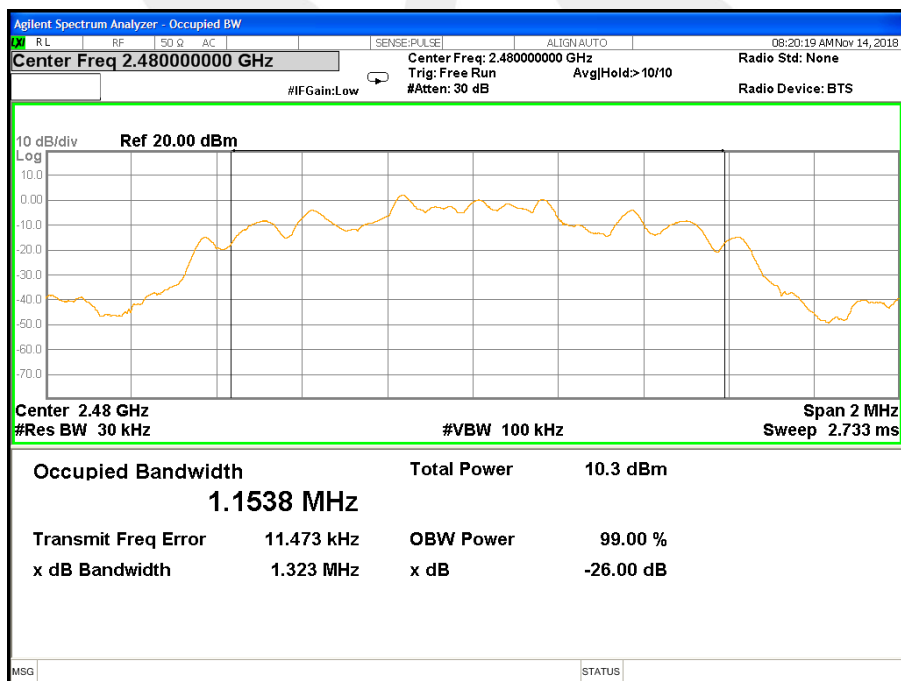




CH39 -2Mbps



CH78 -2Mbps

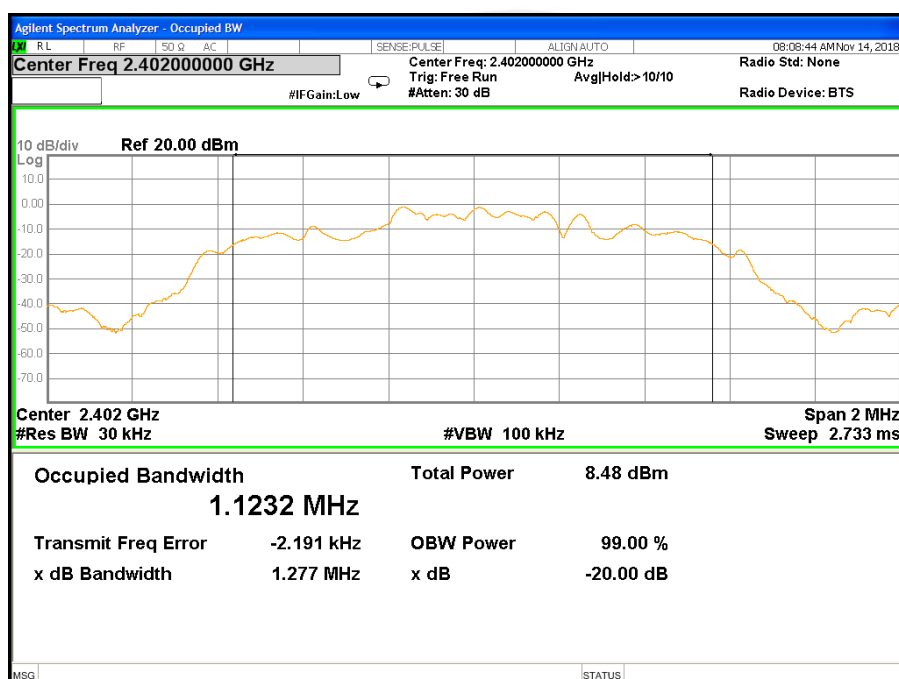




Temperature:	25°C	Relative Humidity:	50%
Test Mode:	8DPSK(3Mbps) CH00 / CH39 / CH78	Test Voltage:	DC 3.85V

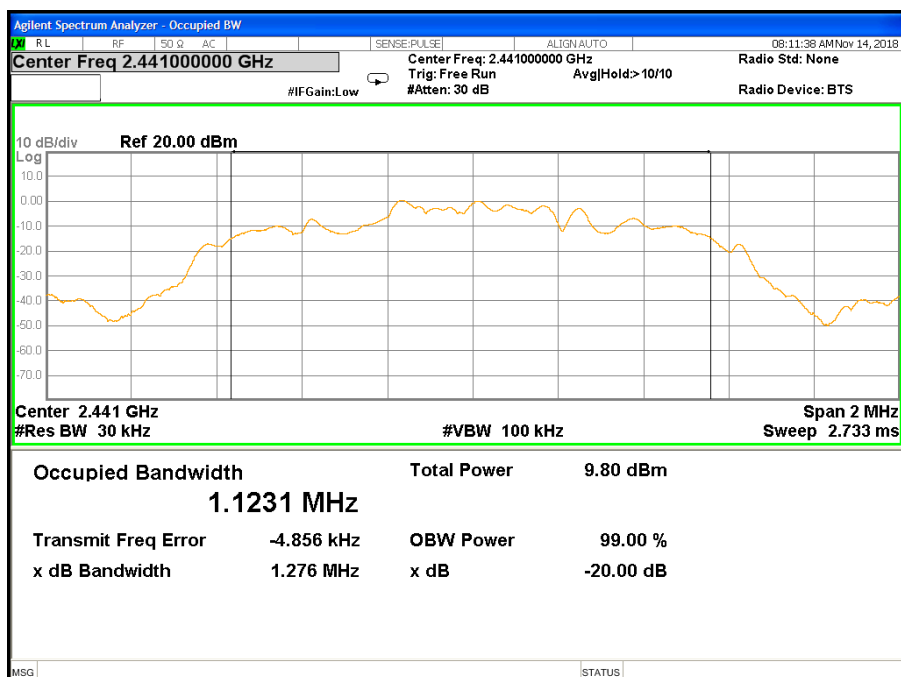
Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	1.277	PASS
2441 MHz	1.276	PASS
2480 MHz	1.276	PASS

CH00 -3Mbps

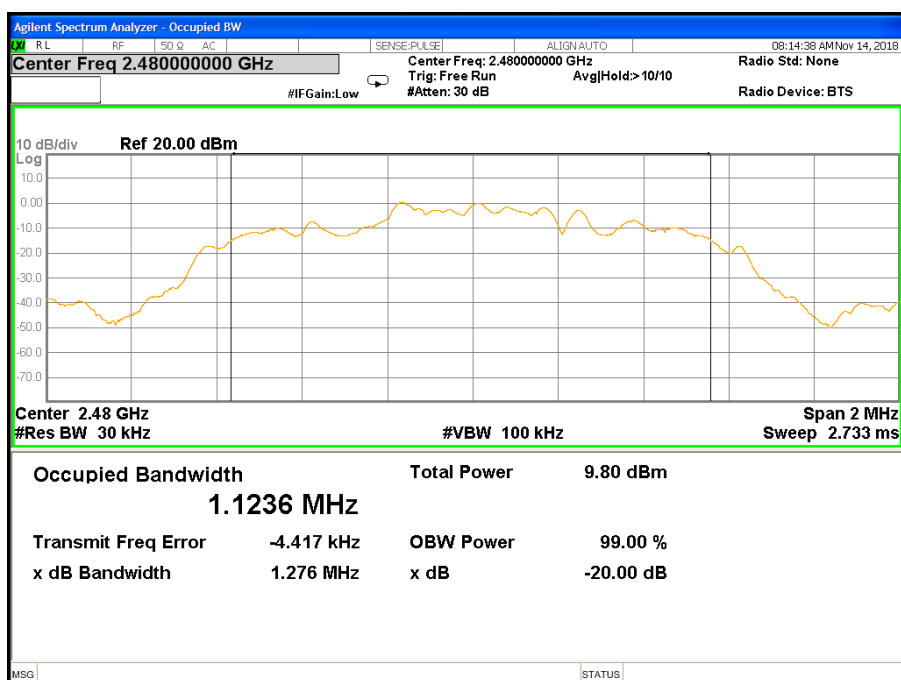




CH39 -3Mbps



CH78 -3Mbps





9. OUTPUT POWER TEST

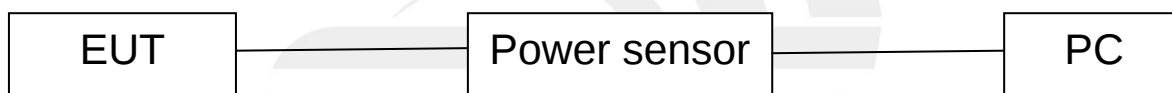
9.1 LIMIT

FCC Part 15.247, Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)&(b)(1)	Output Power	1 W or 0.125W	2400-2483.5	PASS
		if channel separation > 2/3 bandwidth provided the systems operate with an output power no greater than 125 mW (20.97 dBm)		

9.2 TEST PROCEDURE

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

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

Temperature:	25°C	Relative Humidity:	60%
Test Voltage:	DC 3.85V		

GFSK(1Mbps)				
Test Channel	Frequency	Conducted Output Power		LIMIT
	(MHz)	Peak (dBm)	AVG (dBm)	dBm
CH00	2402	7.01	2.81	30
CH39	2441	8.04	3.76	30
CH78	2480	7.43	3.27	30

Note: the channel separation >20dB bandwidth

$\pi/4$ QPSK(2Mbps)				
Test Channel	Frequency	Conducted Output Power		LIMIT
	(MHz)	Peak (dBm)	AVG (dBm)	dBm
CH00	2402	6.04	1.82	20.97
CH39	2441	7.06	2.91	20.97
CH78	2480	6.58	2.13	20.97

Note: the channel separation >2/3 20dB bandwidth

8DPSK(3Mbps)				
Test Channel	Frequency	Conducted Output Power		LIMIT
	(MHz)	Peak (dBm)	AVG (dBm)	dBm
CH00	2402	6.51	2.34	20.97
CH39	2441	7.43	3.15	20.97
CH78	2480	6.97	2.74	20.97

Note: the channel separation >2/3 20dB 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 PIFA Antenna. It comply with the standard requirement.





APPENDIX-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

※※※※END OF THE REPORT※※※※

