FCC RADIO TEST REPORT

FCC ID: 2ABHZCLE-DSM-7013

Product：	Android Tablet PC
Trade Name：	CLEMENTRONICS
Model Name：	CLE-DSM-7013
Serial Model：	CLE-STM-7013, CLE-SSM-7013 CLE-UVM-7013, CLE-SVM-7013 CLE-HDM-7013, CLE-SHM-7013 CTR-STM-813, CTR-SSM-813 MARIETTA-STM-913, MARIETTA-SSM-913 MARIETTA-DSM-913, MARIETTA-UVM-913 AUSTELL-STM-1013, AUSTELL-UVM-1013
Report No.：	NTEK-2013NT1127637F2

Prepared for

CLEMENTRONICS,LLC

3565 AUSTELL ROAD SUITE 1005, MARIETTA, GA 30008. USA

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

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TEST RESULT CERTIFICATION

Applicant's name ..... CLEMENTRONICS,LLC

Address ..... 3565 AUSTELL ROAD SUITE 1005, MARIETTA, GA 30008. USA

Manufacture's Name..... CLEMENTRONICS,LLC

Address ..... 3565 AUSTELL ROAD SUITE 1005, MARIETTA, GA 30008. USA

Product description

Product name ..... Android Tablet PC

Model and/or type reference CLE-DSM-7013

Serial Model： CLE-STM-7013, CLE-SSM-7013
CLE-UVM-7013, CLE-SVM-7013,CLE-HDM-7013,
CLE-SHM-7013, CTR-STM-813, CTR-SSM-813
MARIETTA-STM-913, MARIETTA-SSM-913
MARIETTA-DSM-913, MARIETTA-UVM-913
AUSTELL-STM-1013, AUSTELL-UVM-1013

Standards ..... FCC Part15.247

Test procedure ..... ANSI C63.4-2003

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

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Date of Test .....

Date (s) of performance of tests ..... 27 Nov. 2013 ~12 Dec. 2013

Date of Issue..... 12 Dec. 2013

Test Result..... **Pass**

Testing Engineer : Polo Cha

(Polo Cha)

Technical Manager : Brown Lu

(Brown Lu)

Authorized Signatory : Bovey Yang

(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(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

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

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y** ± **U**，where expended uncertainty **U** is based on a standard uncertainty multiplied by a coverage factor of **k=2**，providing a level of confidence of approximately **95** %。

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Android Tablet PC
Trade Name	CLEMENTRONICS
Model Name	CLE-DSM-7013
Serial Model	CLE-STM-7013, CLE-SSM-7013 CLE-UVM-7013, CLE-SVM-7013,CLE-HDM-7013 CLE-SHM-7013, CTR-STM-813, CTR-SSM-813 MARIETTA-STM-913, MARIETTA-SSM-913 MARIETTA-DSM-913, MARIETTA-UVM-913 AUSTELL-STM-1013, AUSTELL-UVM-1013
Model Difference	All the models are the same circuit and RF module, except the model names.
Product Description	The EUT is a Android Tablet PC Operation Frequency: 2402~2480 MHz Modulation Type: BT(1Mbps): GFSK; BT EDR(2Mbps): π/4-DQPSK; BT EDR(3Mbps): 8-DPSK Bit Rate of Transmitter: 1Mbps/2Mbps/3Mbps Number Of Channel: 79 CH Antenna Designation: Please see Note 3. Output Power(Conducted): BT(1Mbps): 1.07dBm; BT EDR(2Mbps): 0.621dBm; BT EDR(3Mbps): 0.787dBm Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.
Channel List	Please refer to the Note 2.
Adapter	Model No.: V902 AC Power Input: 100-240V, 50/60Hz, 0.3A Output: 5.0V⎓, 2A
Battery	DC 5V, 1.5A

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	FPCB Antenna	N/A	1.0	BT Antenna

2.2 DESCRIPTION OF TEST MODES

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

Pretest Mode	Description
Mode 1	CH00
Mode 2	CH39
Mode 3	CH78
Mode 4	Link Mode

For Conducted Emission	
Final Test Mode	Description
Mode 4	Link Mode

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

Note:

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

(2) The EUT use new battery.

(3)The data rate was set in 1Mbps for radiated emission due to the highest RF output power.

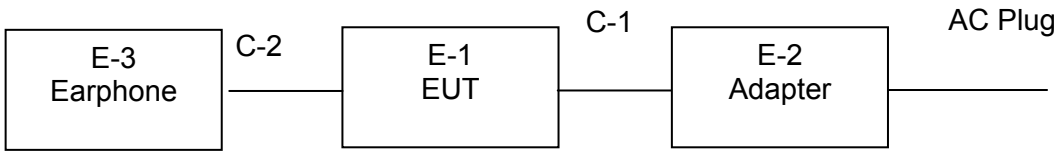
2.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

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

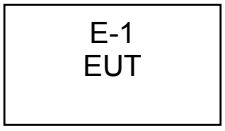
Test software Version	Test program: Broadcom		
Frequency	2402 MHz	2441 MHz	2480 MHz
Parameters(1/2/3Mbps)	DEF	DEF	DEF

2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission Test



Radiated Spurious Emission Test



2.5 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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

Item	Equipment	Brand	Model/Type No.	Series No.	Note
E-1	Android Tablet PC	CLEMENTRONICS	CLE-DSM-7013	N/A	EUT
E-2	Adapter	N/A	V902	N/A	
E-3	Earphone	N/A	N/A	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	0.8m	
C-2	NO	NO	0.8m	

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

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2013.07.06	2014.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2013.06.07	2014.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2013.07.06	2014.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2013.06.07	2014.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2013.06.07	2014.06.06	1 year
6	Horn Antenna	EM	EM-AH-10180	2011071402	2013.07.06	2014.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2013.07.06	2014.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2012.12.22	2013.12.21	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2013.06.08	2014.06.07	1 year
10	Power Meter	R&S	NRVS	100696	2013.07.06	2014.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619.05	2013.07.06	2014.07.05	1 year

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2013.06.06	2014.06.05	1 year
2	LISN	R&S	ENV216	101313	2013.08.24	2014.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2013.08.24	2014.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2013.06.07	2014.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2013.06.07	2014.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2013.06.08	2014.06.07	1 year

1	Attenuation	MCE	24-10-34	BN9258	2013.06.08	2014.06.07	1 year

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

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

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
	Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	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

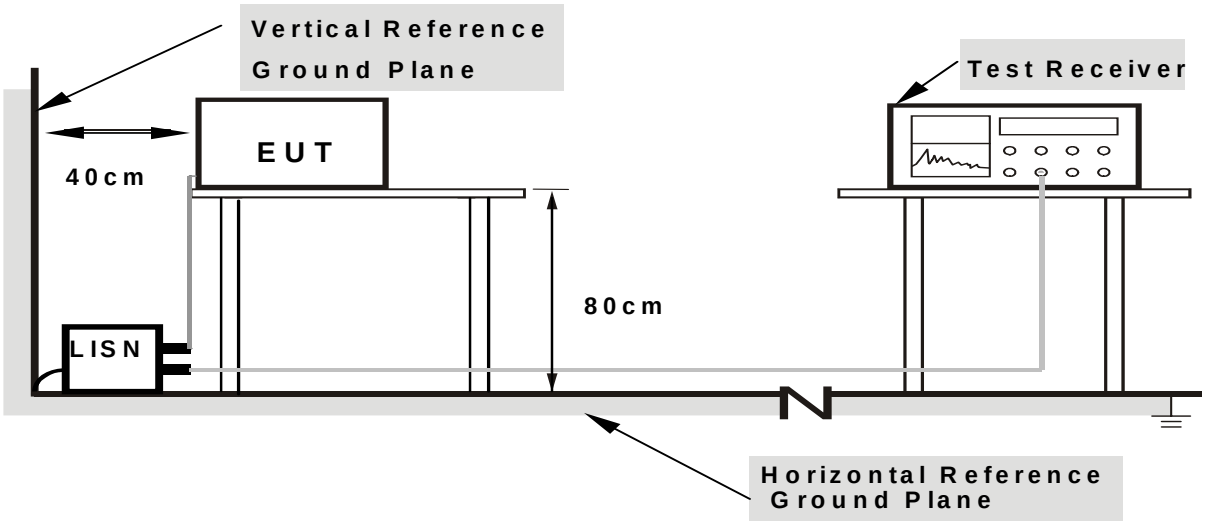
3.1.2 TEST PROCEDURE

a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



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

3.1.5 EUT OPERATING CONDITIONS

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

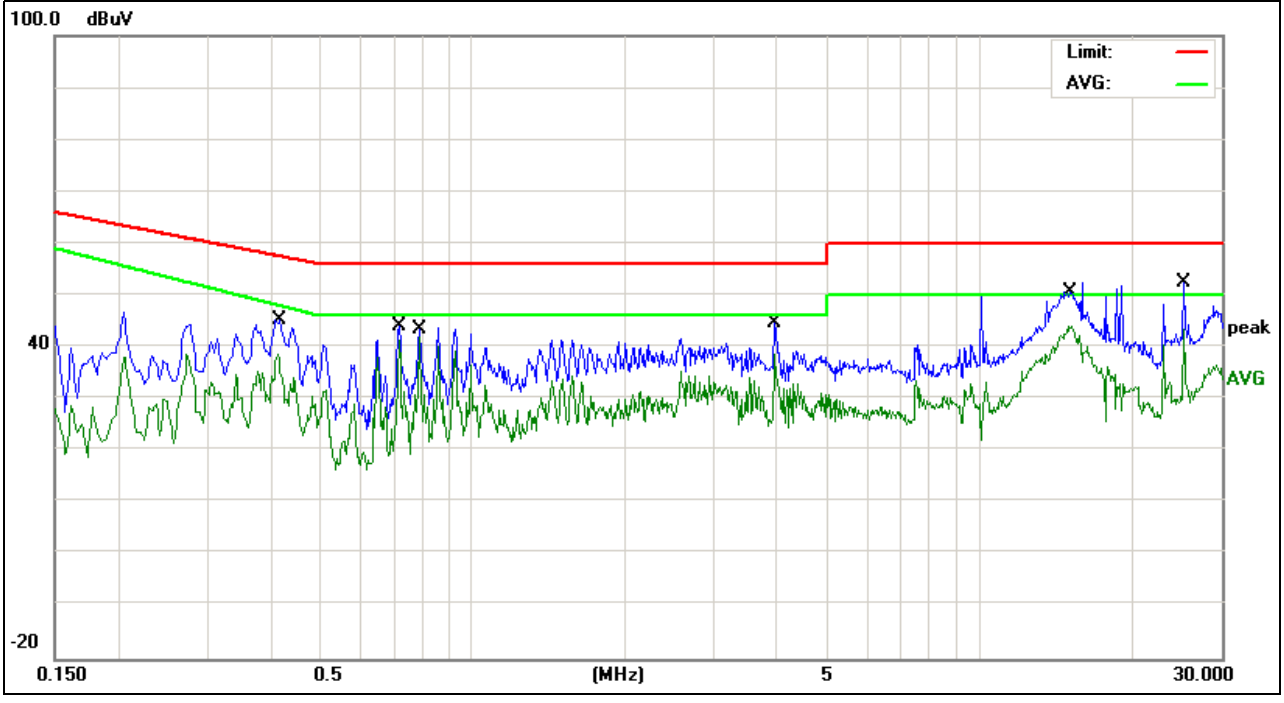
3.1.6 TEST RESULTS

EUT：	Android Tablet PC	Model Name ：	CLE-DSM-7013
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010hPa	Phase：	L
Test Voltage ：	DC 5V form adapter AC 120V/50Hz	Test Mode：	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.4140	29.09	9.50	38.59	48.04	-9.45	AVG
0.4180	35.67	9.50	45.17	57.49	-12.32	QP
0.7180	34.60	9.53	44.13	56.00	-11.87	QP
0.7180	31.90	9.53	41.43	46.00	-4.57	AVG
0.7860	34.34	9.53	43.87	56.00	-12.13	QP
0.7860	32.48	9.53	42.01	46.00	-3.99	AVG
3.9460	35.03	9.59	44.62	56.00	-11.38	QP
3.9460	29.07	9.59	38.66	46.00	-7.34	AVG
14.9699	40.96	9.84	50.80	60.00	-9.20	QP
14.9699	34.35	9.84	44.19	50.00	-5.81	AVG
25.2580	42.33	10.17	52.50	60.00	-7.50	QP
25.2580	33.15	10.17	43.32	50.00	-6.68	AVG

Remark:

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

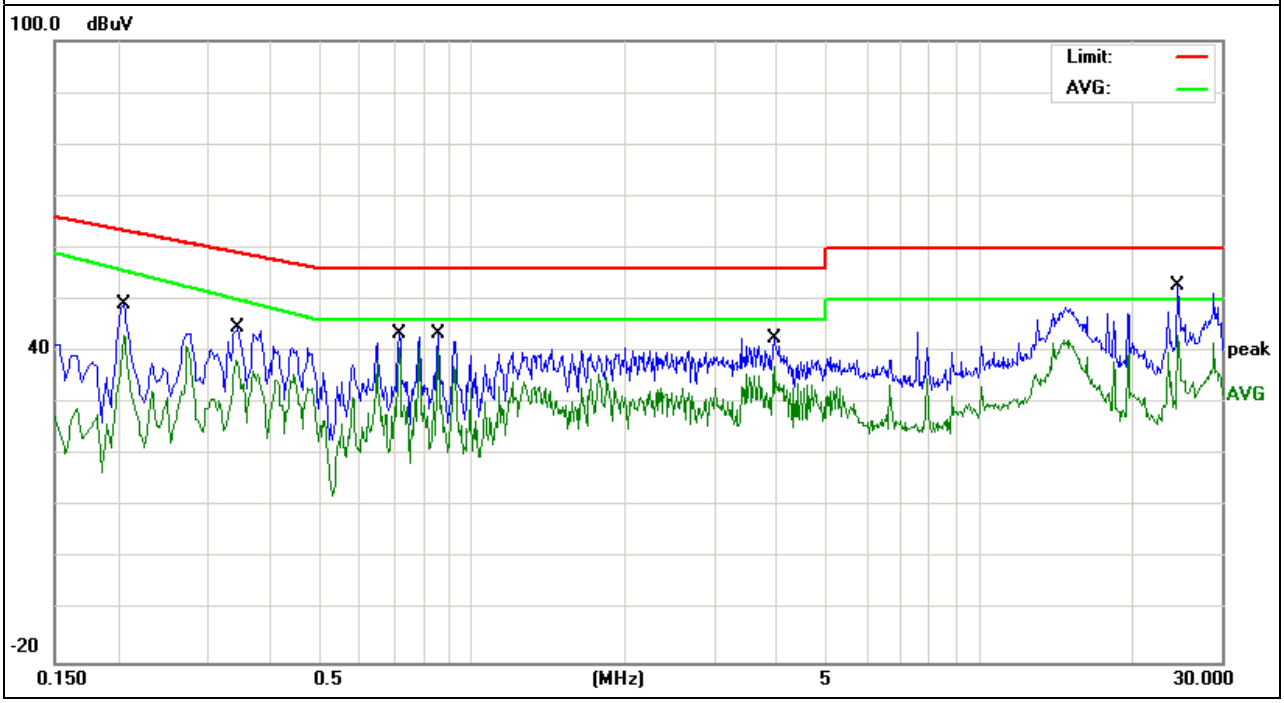


EUT：	Android Tablet PC	Model Name ：	CLE-DSM-7013
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010hPa	Phase：	N
Test Voltage ：	DC 5V form adapter AC 120V/50Hz	Test Mode：	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.2060	39.58	9.50	49.08	63.36	-14.28	QP
0.2060	33.73	9.50	43.23	55.57	-12.34	AVG
0.3420	35.23	9.51	44.74	59.15	-14.41	QP
0.3420	28.72	9.51	38.23	50.10	-11.87	AVG
0.7180	33.97	9.54	43.51	56.00	-12.49	QP
0.7180	31.32	9.54	40.86	46.00	-5.14	AVG
0.8579	33.84	9.55	43.39	56.00	-12.61	QP
0.8579	30.63	9.55	40.18	46.00	-5.82	AVG
3.9300	32.84	9.59	42.43	56.00	-13.57	QP
3.9300	27.54	9.59	37.13	46.00	-8.87	AVG
24.6299	42.51	10.29	52.80	60.00	-7.20	QP
24.6299	32.77	10.29	43.06	50.00	-6.94	AVG

Remark:

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



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class A (dBuV/m) (at 3M)		Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80	60	74	54

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

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

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

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

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

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

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

3.2.2 TEST PROCEDURE

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

Note:

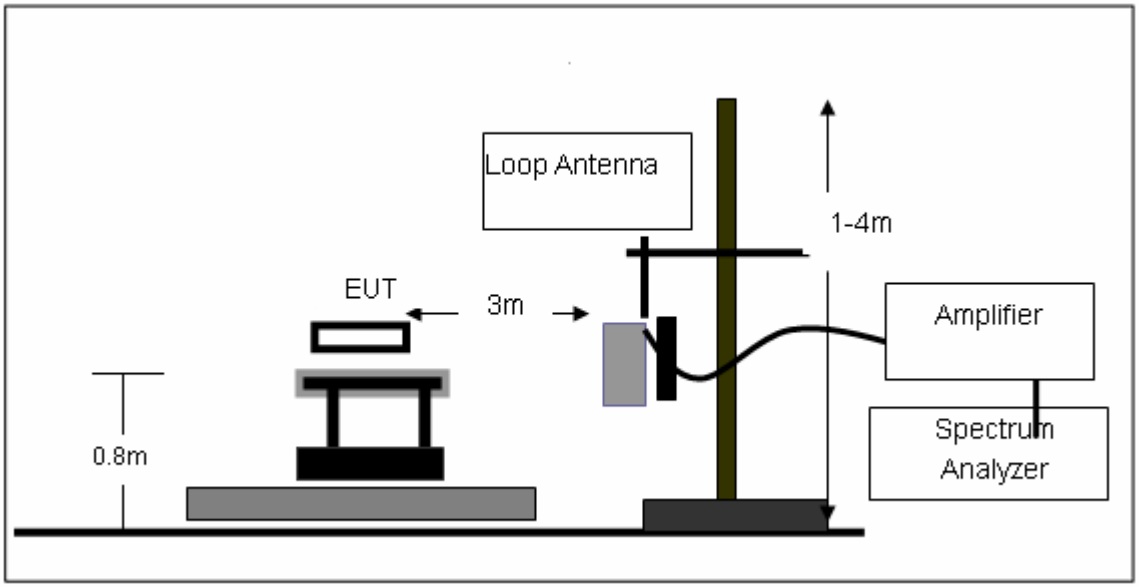
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

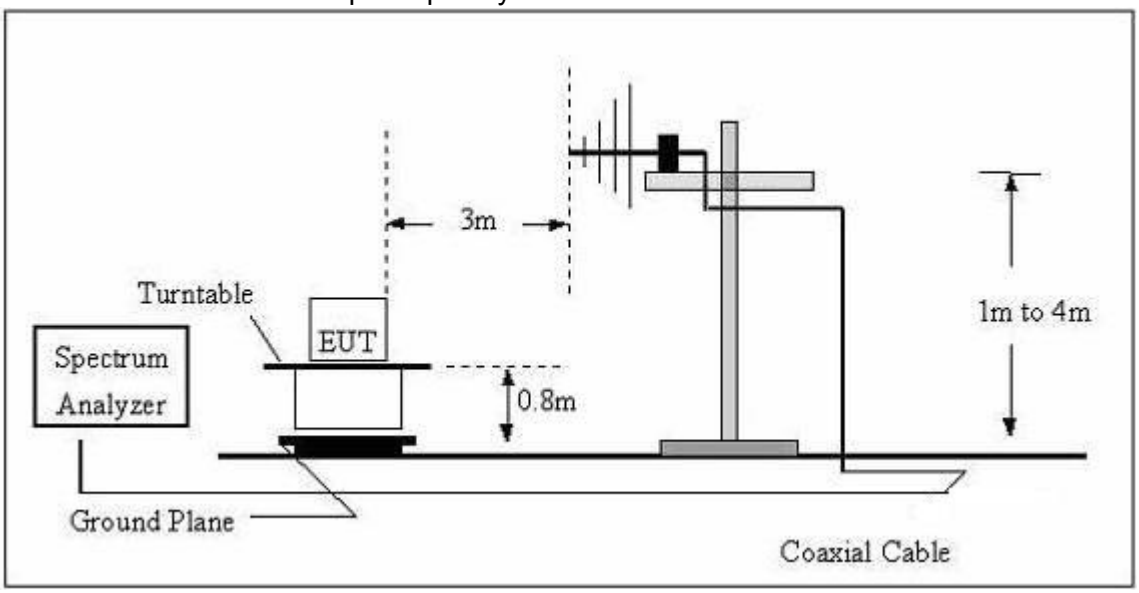
No deviation

3.2.4 TEST SETUP

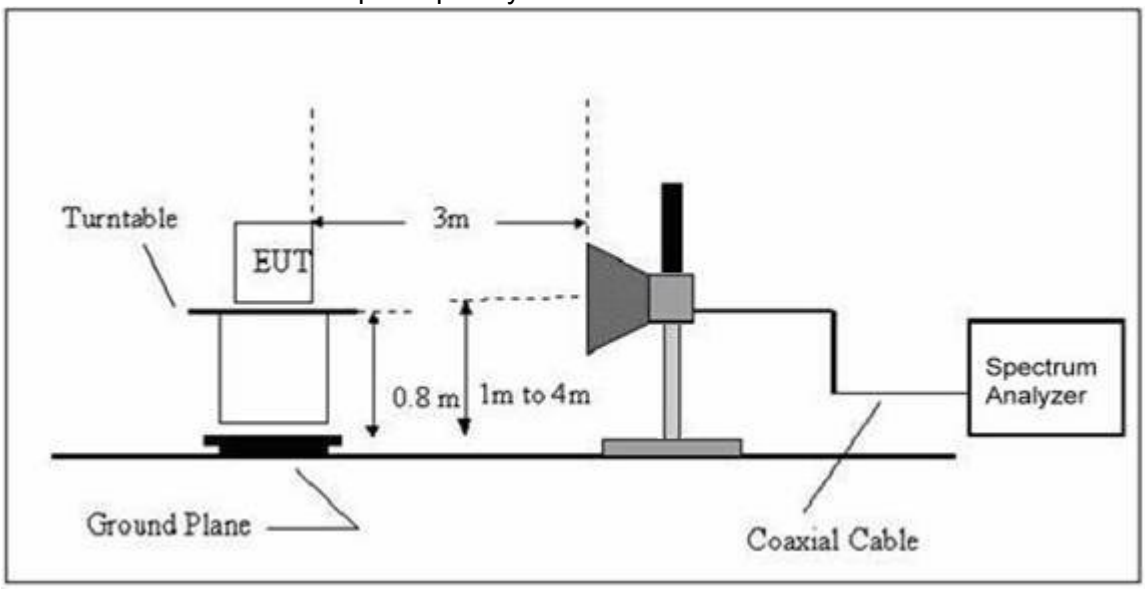
（A）Radiated Emission Test-Up Frequency Below 30MHz



（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：	Android Tablet PC	Model Name ：	CLE-DSM-7013
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX	Polarization :	---

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

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

3.2.7 TEST RESULTS (BETWEEN 30M – 1000 MHZ)

EUT：	Android Tablet PC	Model Name ：	CLE-DSM-7013
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010hPa	Test Mode：	TX
Test Voltage ：	DC3.7V		

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Vertical	51.1209	21.72	7.76	29.48	40.00	-10.52	QP
Vertical	87.7248	18.62	9.10	27.72	40.00	-12.28	QP
Vertical	175.6516	21.76	10.08	31.84	43.50	-11.66	QP
Vertical	263.8190	21.16	14.62	35.78	46.00	-10.22	QP
Vertical	351.7079	17.98	16.37	34.35	46.00	-11.65	QP
Vertical	968.9338	6.98	29.86	36.84	54.00	-17.16	QP
Horizontal	30.9618	4.77	17.91	22.68	40.00	-17.32	QP
Horizontal	175.6516	17.63	10.08	27.71	43.50	-15.79	QP
Horizontal	263.8190	23.78	14.62	38.40	46.00	-7.60	QP
Horizontal	351.7079	24.80	16.37	41.17	46.00	-4.83	QP
Horizontal	438.6554	17.91	18.92	36.83	46.00	-9.17	QP
Horizontal	747.4825	12.21	26.42	38.63	46.00	-7.37	QP

3.2.8 **TEST RESULTS (ABOVE 1000 MHZ)**

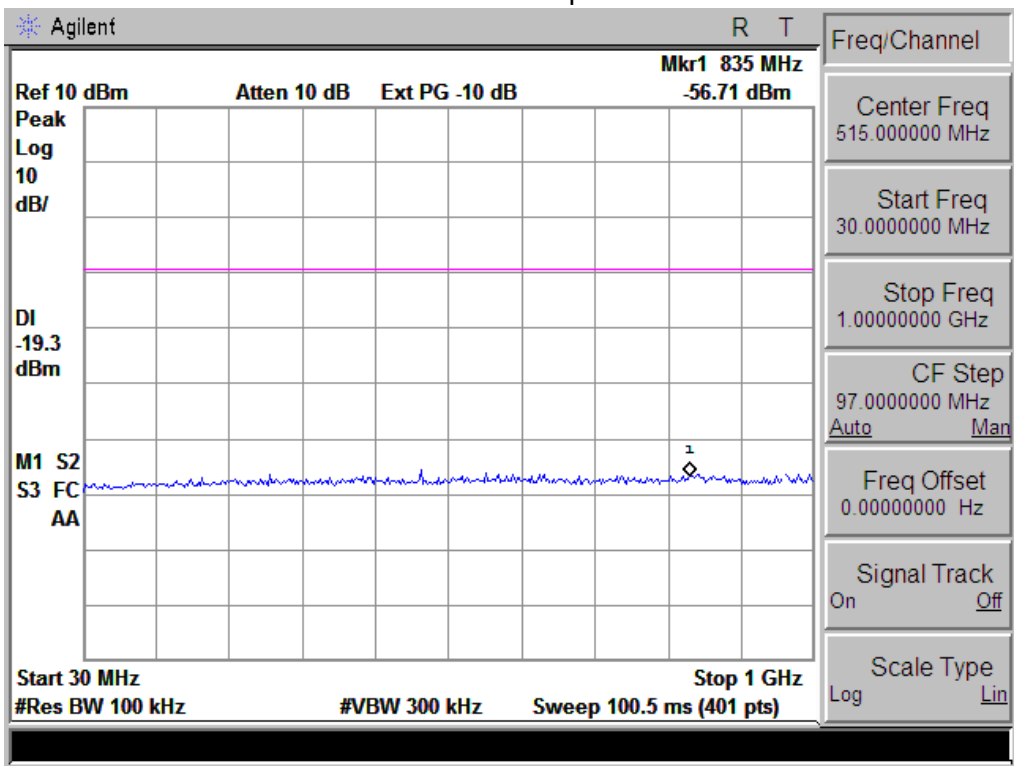
EUT：	Android Tablet PC	Model Name ：	CLE-DSM-7013
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010hPa	Test Mode：	TX
Test Mode ：	DC3.7V		

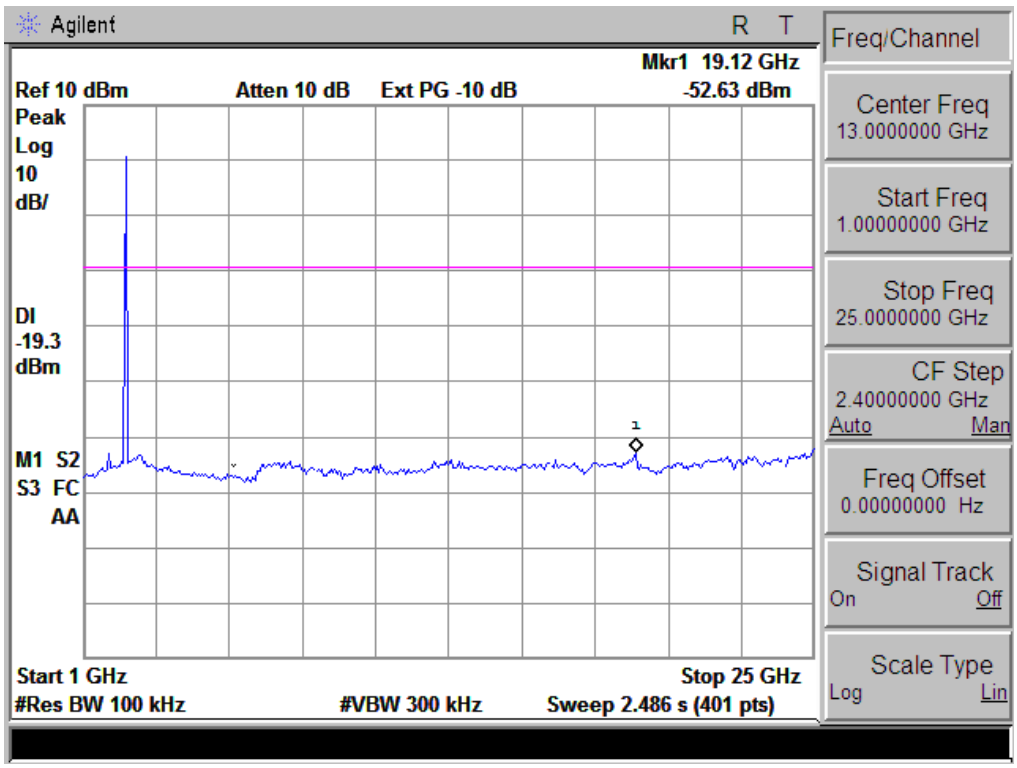
Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Frequency:2402MHz							
V	4803.603	52.09	-3.64	48.45	74.00	-25.55	peak
V	7207.887	46.37	-0.95	45.42	74.00	-28.58	peak
H	4803.425	50.98	-3.64	47.34	74.00	-26.66	peak
H	7207.202	44.84	-0.95	43.89	74.00	-30.11	peak
Frequency:2441MHz							
V	4881.315	53.91	-3.67	50.24	74.00	-23.76	peak
V	7322.716	46.94	-0.82	46.12	74.00	-27.88	peak
H	4881.822	52.55	-3.68	48.87	74.00	-25.13	peak
H	7321.976	46.57	-0.82	45.75	74.00	-28.25	peak
Frequency:2480MHz							
V	4960.904	51.44	-3.59	47.85	74.00	-26.15	peak
V	7440.615	44.04	-0.68	43.36	74.00	-30.64	peak
H	4960.693	53.01	-3.59	49.42	74.00	-24.58	peak
H	7440.817	45.81	-0.68	45.13	74.00	-28.87	peak
Remark: Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit							

Note: Mode 2 Mbps is the worst mode.
PK value is lower than the Average value limit, average not record.

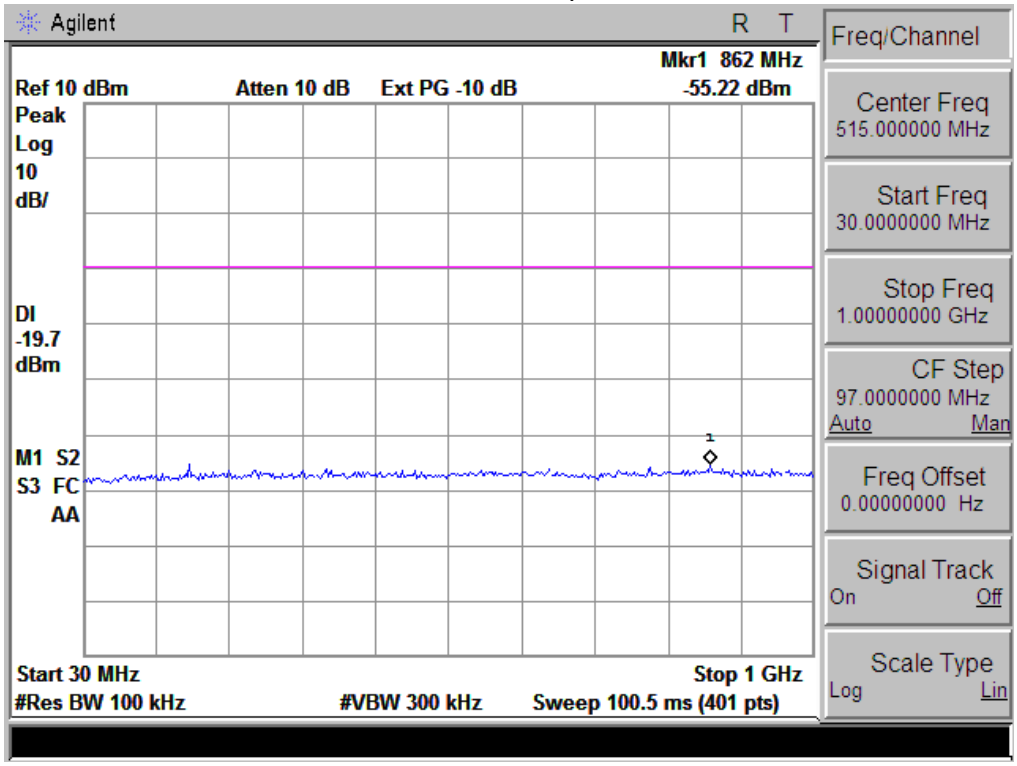
Conducted Spurious Emissions at Antenna Port:

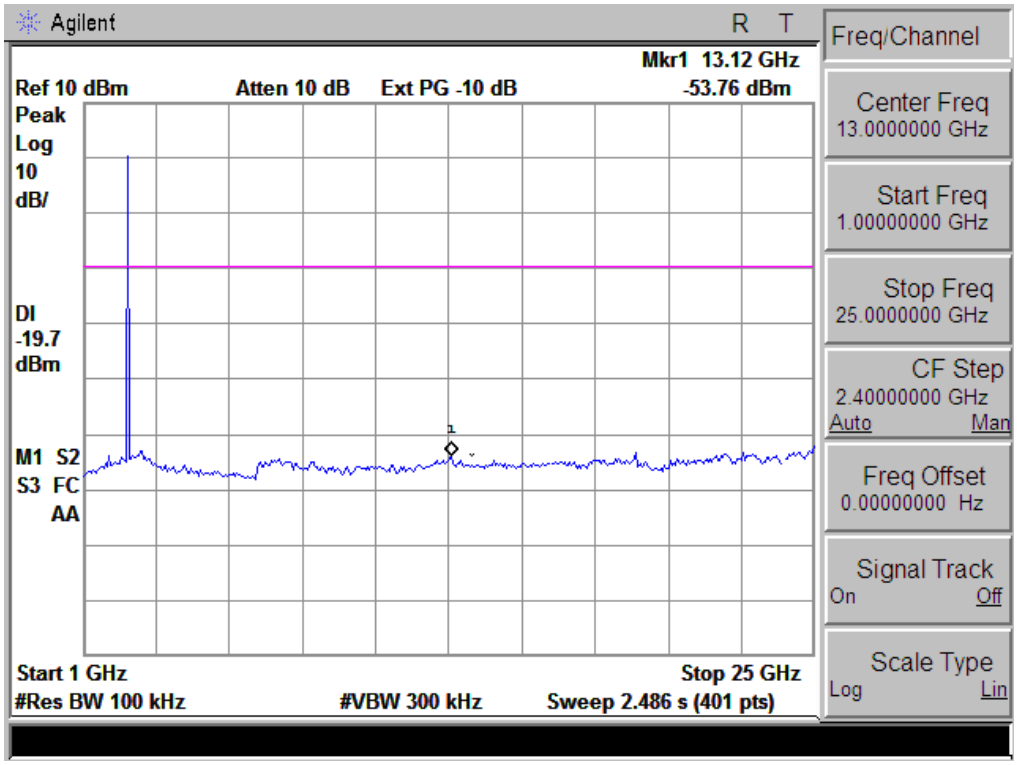
CH00 -1Mbps



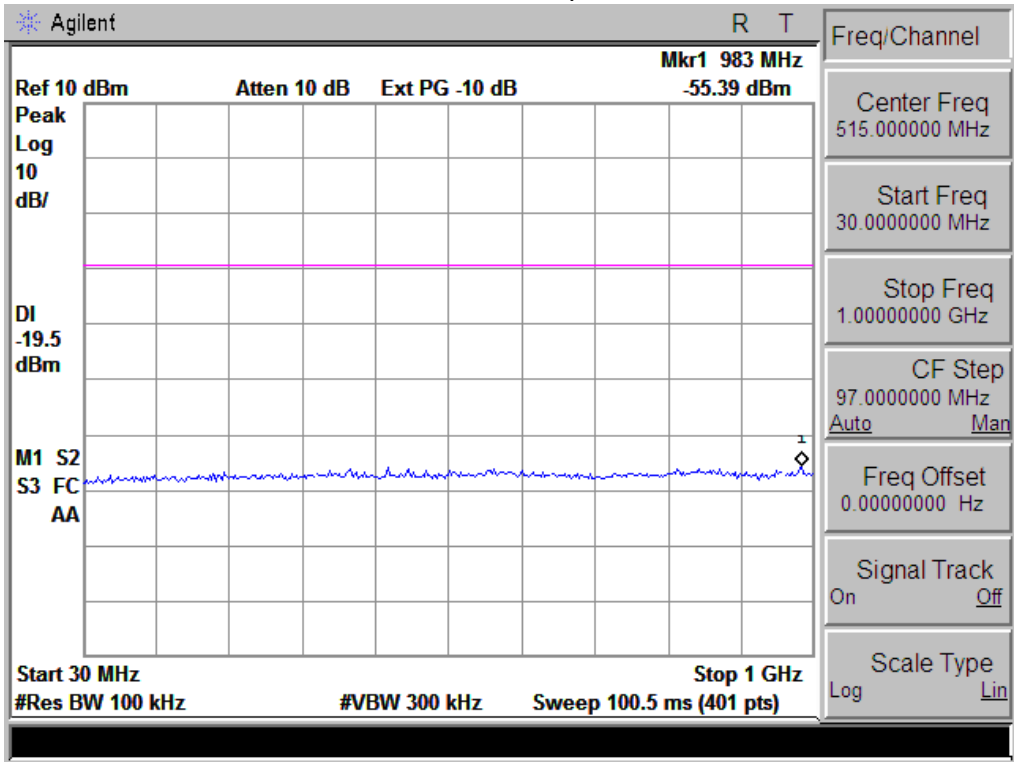


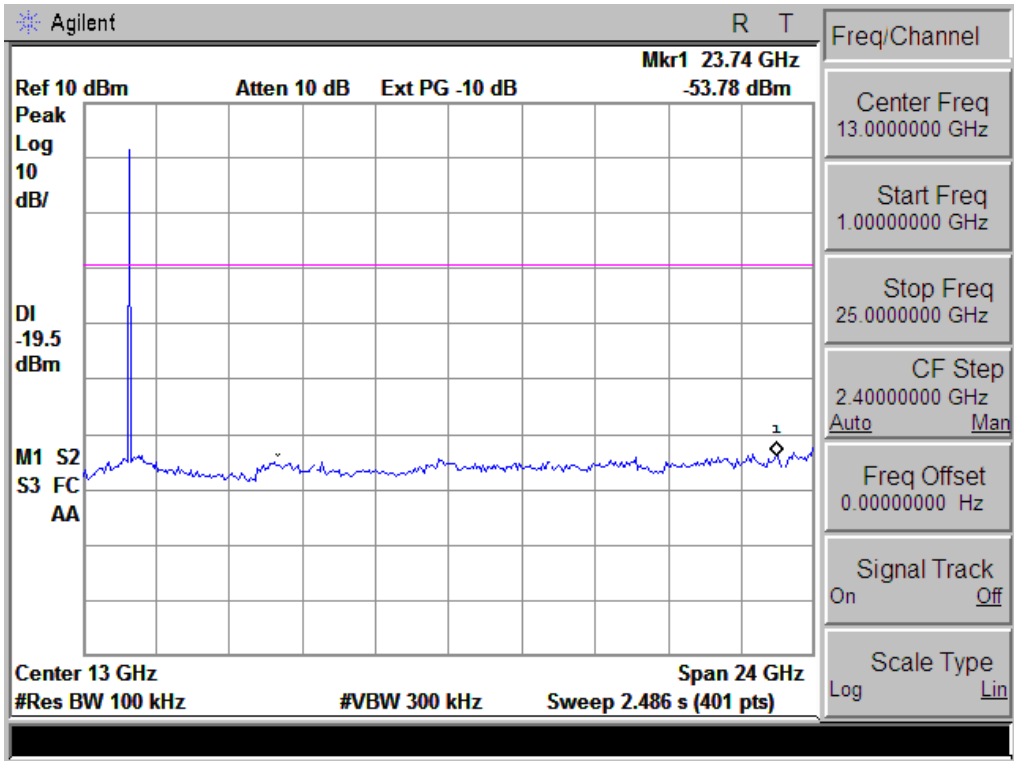
CH39 -1Mbps


Agilent
R T
Mkr1 862 MHz
Ref 10 dBm
Atten 10 dB
Ext PG -10 dB
-55.22 dBm
Peak
Log
10
dB/
DI
-19.7
dBm
M1 S2
S3 FC
AA
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1 GHz
Sweep 100.5 ms (401 pts)
Freq/Channel
Center Freq
515.000000 MHz
Start Freq
30.0000000 MHz
Stop Freq
1.00000000 GHz
CF Step
97.0000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Scale Type
Log
Lin

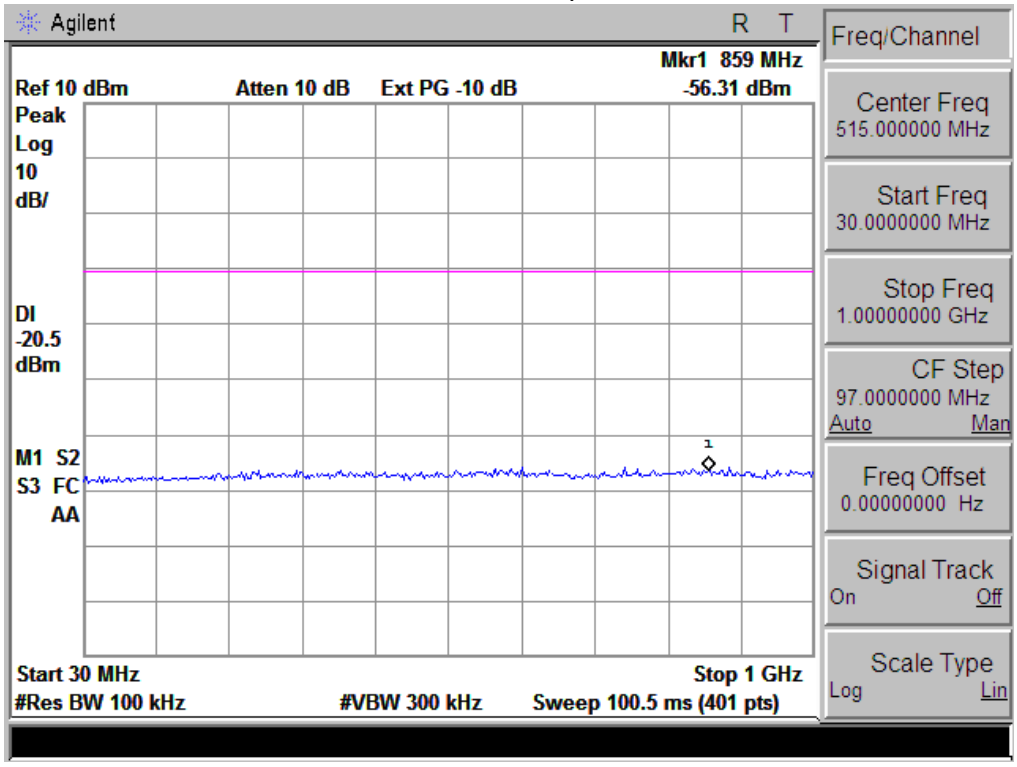

Agilent
R T
Mkr1 13.12 GHz
Ref 10 dBm
Atten 10 dB
Ext PG -10 dB
-53.76 dBm
Peak
Log
10
dB/
DI
-19.7
dBm
M1 S2
S3 FC
AA
Start 1 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25 GHz
Sweep 2.486 s (401 pts)
Freq/Channel
Center Freq
13.0000000 GHz
Start Freq
1.00000000 GHz
Stop Freq
25.0000000 GHz
CF Step
2.40000000 GHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Scale Type
Log
Lin

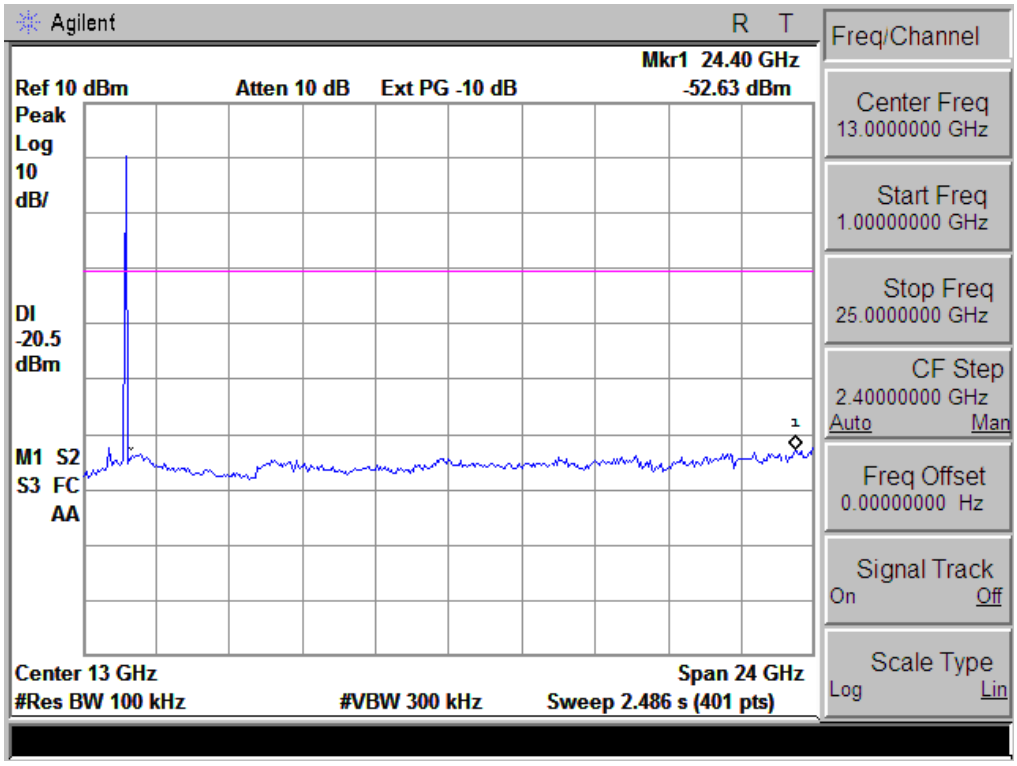
CH78 -1Mbps


Agilent
R T
Mkr1 983 MHz
Ref 10 dBm
Atten 10 dB
Ext PG -10 dB
-55.39 dBm
Peak
Log
10
dB/
DI
-19.5
dBm
M1 S2
S3 FC
AA
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1 GHz
Sweep 100.5 ms (401 pts)
Freq/Channel
Center Freq
515.000000 MHz
Start Freq
30.0000000 MHz
Stop Freq
1.00000000 GHz
CF Step
97.0000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Scale Type
Log
Lin

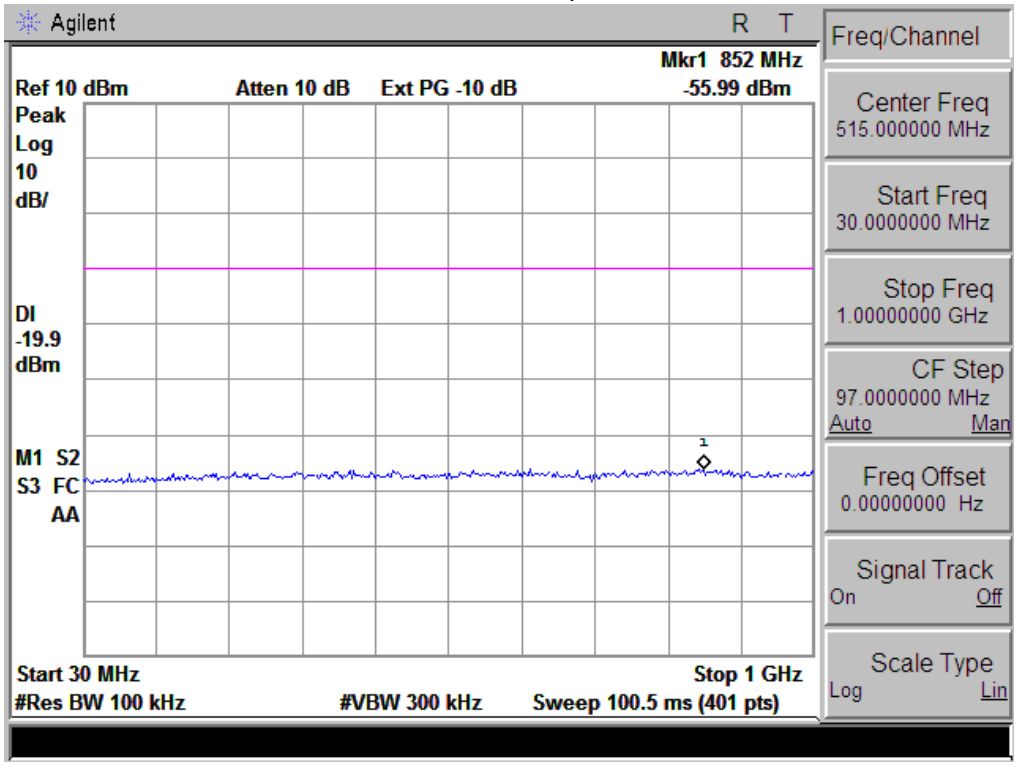

Agilent
R T
Mkr1 23.74 GHz
Ref 10 dBm
Atten 10 dB
Ext PG -10 dB
-53.78 dBm
Peak
Log
10
dB/
DI
-19.5
dBm
M1 S2
S3 FC
AA
Center 13 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 24 GHz
Sweep 2.486 s (401 pts)
Freq/Channel
Center Freq
13.0000000 GHz
Start Freq
1.00000000 GHz
Stop Freq
25.0000000 GHz
CF Step
2.40000000 GHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Scale Type
Log
Lin

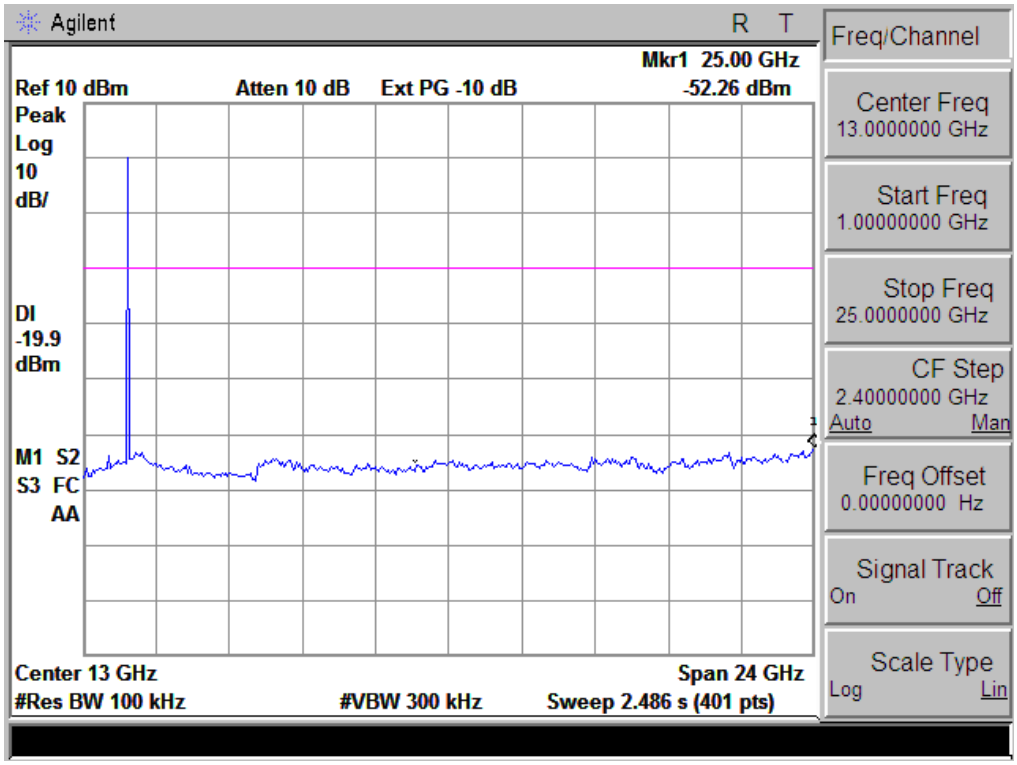
CH00 -2Mbps


Agilent
R T
Mkr1 859 MHz
Ref 10 dBm
Atten 10 dB
Ext PG -10 dB
-56.31 dBm
Peak
Log
10
dB/
DI
-20.5
dBm
M1 S2
S3 FC
AA
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1 GHz
Sweep 100.5 ms (401 pts)
Freq/Channel
Center Freq
515.000000 MHz
Start Freq
30.0000000 MHz
Stop Freq
1.00000000 GHz
CF Step
97.0000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Scale Type
Log
Lin

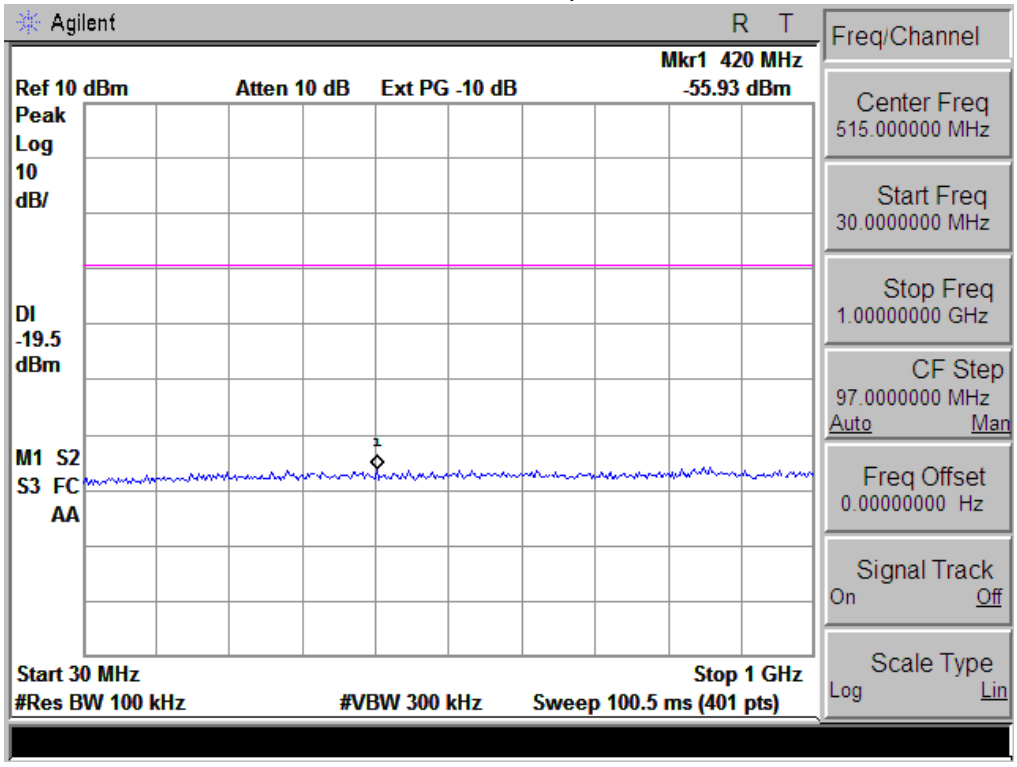

Agilent
R T
Mkr1 24.40 GHz
Ref 10 dBm
Atten 10 dB
Ext PG -10 dB
-52.63 dBm
Peak
Log
10
dB/
DI
-20.5
dBm
M1 S2
S3 FC
AA
Center 13 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 24 GHz
Sweep 2.486 s (401 pts)
Freq/Channel
Center Freq
13.0000000 GHz
Start Freq
1.00000000 GHz
Stop Freq
25.0000000 GHz
CF Step
2.40000000 GHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Scale Type
Log
Lin

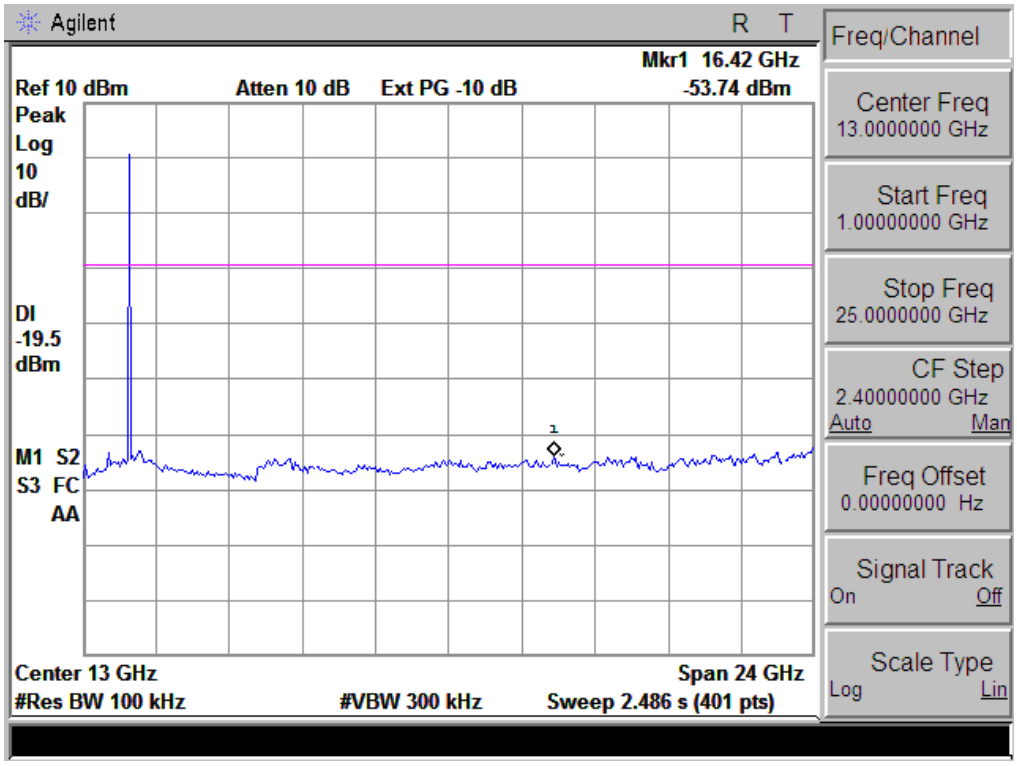
CH39 -2Mbps


Agilent
R T
Mkr1 852 MHz
Ref 10 dBm
Atten 10 dB
Ext PG -10 dB
-55.99 dBm
Peak
Log
10
dB/
DI
-19.9
dBm
M1 S2
S3 FC
AA
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1 GHz
Sweep 100.5 ms (401 pts)
Freq/Channel
Center Freq
515.000000 MHz
Start Freq
30.0000000 MHz
Stop Freq
1.00000000 GHz
CF Step
97.0000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Scale Type
Log
Lin

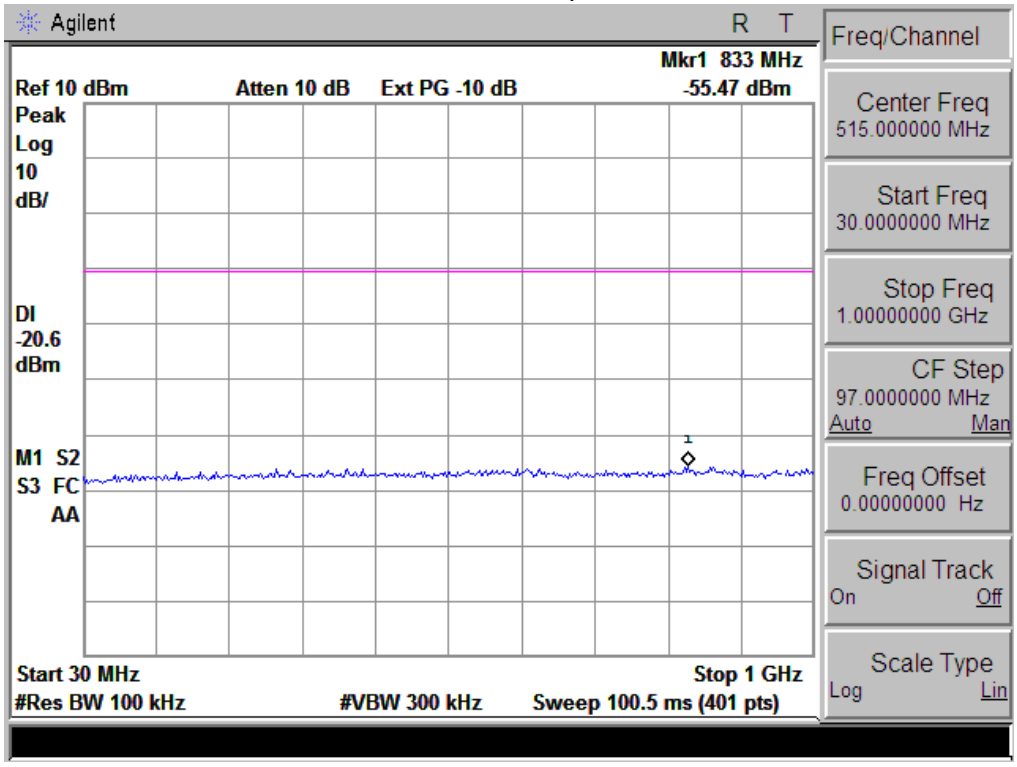

Agilent
R T
Mkr1 25.00 GHz
Ref 10 dBm
Atten 10 dB
Ext PG -10 dB
-52.26 dBm
Peak
Log
10
dB/
DI
-19.9
dBm
M1 S2
S3 FC
AA
Center 13 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 24 GHz
Sweep 2.486 s (401 pts)
Freq/Channel
Center Freq
13.0000000 GHz
Start Freq
1.00000000 GHz
Stop Freq
25.0000000 GHz
CF Step
2.40000000 GHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Scale Type
Log
Lin

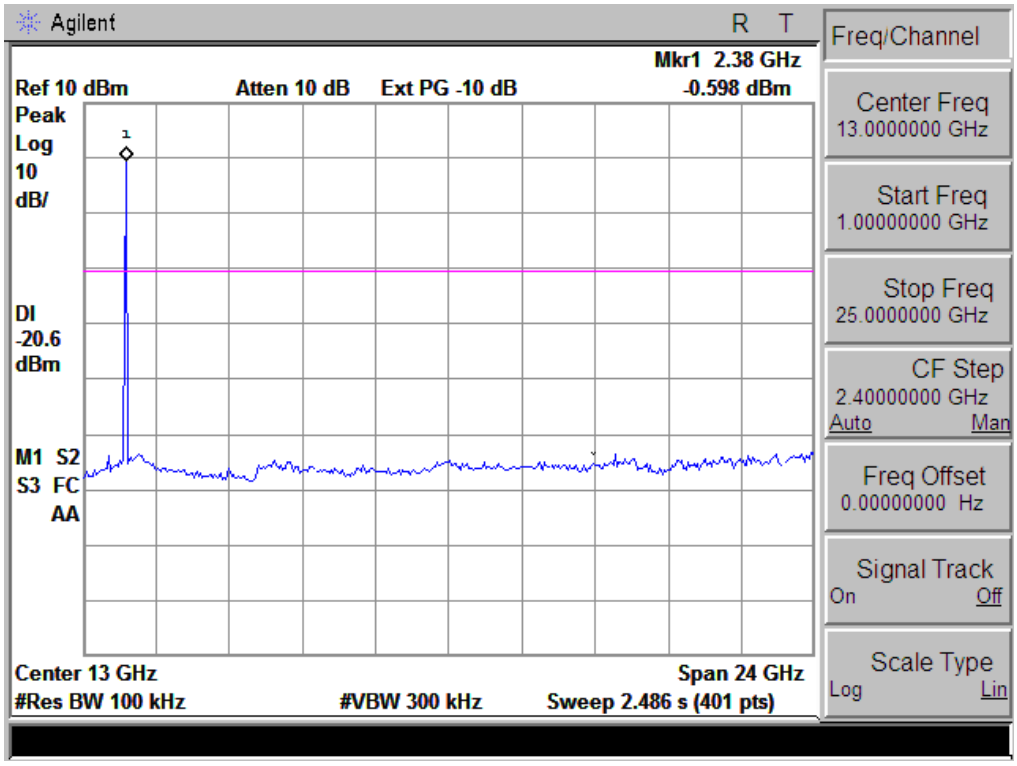
CH78 -2Mbps


Agilent
R T
Mkr1 420 MHz
Ref 10 dBm
Atten 10 dB
Ext PG -10 dB
-55.93 dBm
Peak
Log
10
dB/
DI
-19.5
dBm
M1 S2
S3 FC
AA
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1 GHz
Sweep 100.5 ms (401 pts)
Freq/Channel
Center Freq
515.000000 MHz
Start Freq
30.0000000 MHz
Stop Freq
1.00000000 GHz
CF Step
97.0000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Scale Type
Log
Lin

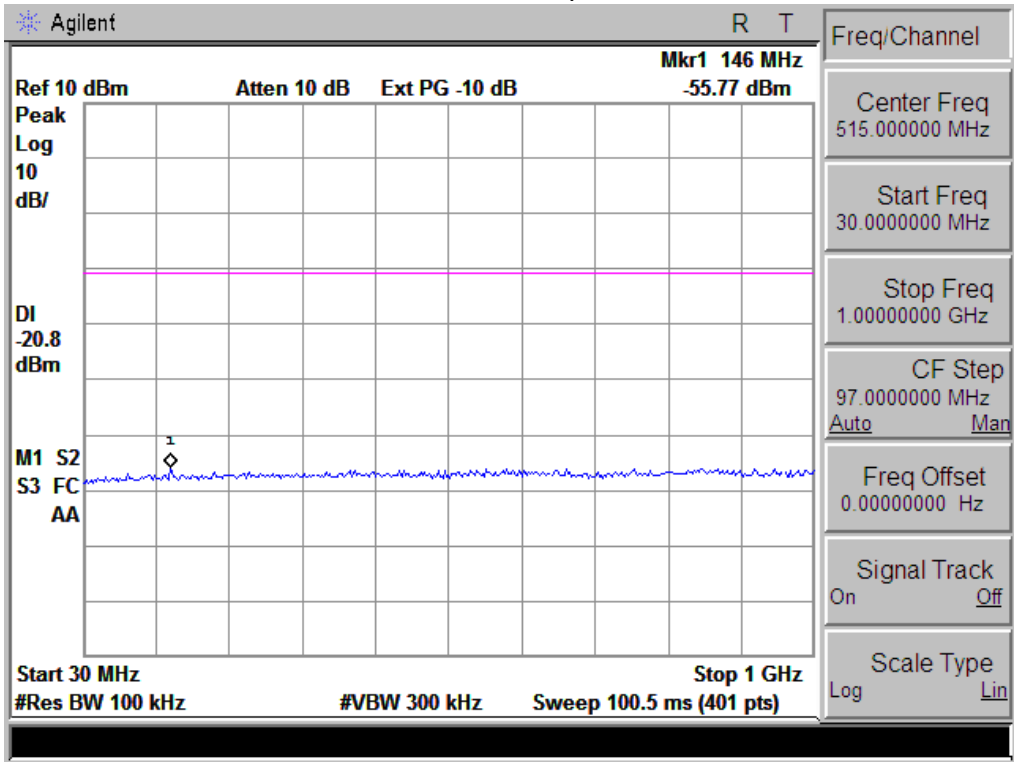

Agilent
R T
Mkr1 16.42 GHz
Ref 10 dBm
Atten 10 dB
Ext PG -10 dB
-53.74 dBm
Peak
Log
10
dB/
DI
-19.5
dBm
M1 S2
S3 FC
AA
Center 13 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 24 GHz
Sweep 2.486 s (401 pts)
Freq/Channel
Center Freq
13.0000000 GHz
Start Freq
1.00000000 GHz
Stop Freq
25.0000000 GHz
CF Step
2.40000000 GHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Scale Type
Log
Lin

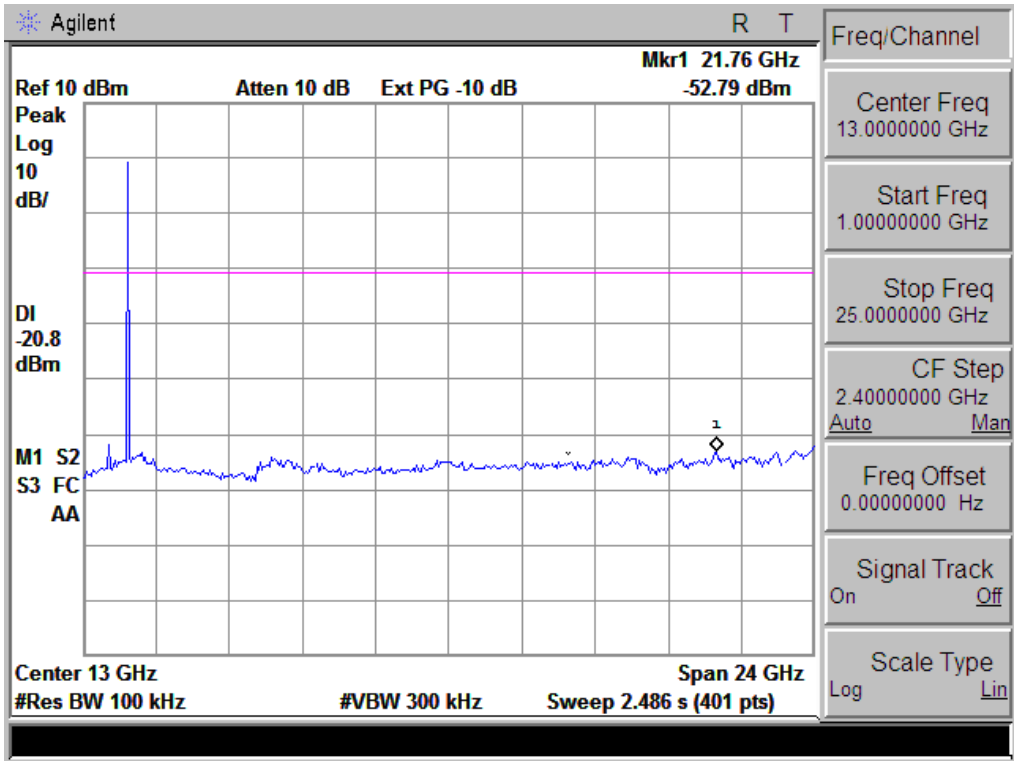
CH00 -3Mbps


Agilent
R T
Mkr1 833 MHz
Ref 10 dBm
Atten 10 dB
Ext PG -10 dB
-55.47 dBm
Peak
Log
10
dB/
DI
-20.6
dBm
M1 S2
S3 FC
AA
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1 GHz
Sweep 100.5 ms (401 pts)
Freq/Channel
Center Freq
515.000000 MHz
Start Freq
30.0000000 MHz
Stop Freq
1.00000000 GHz
CF Step
97.0000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Scale Type
Log
Lin

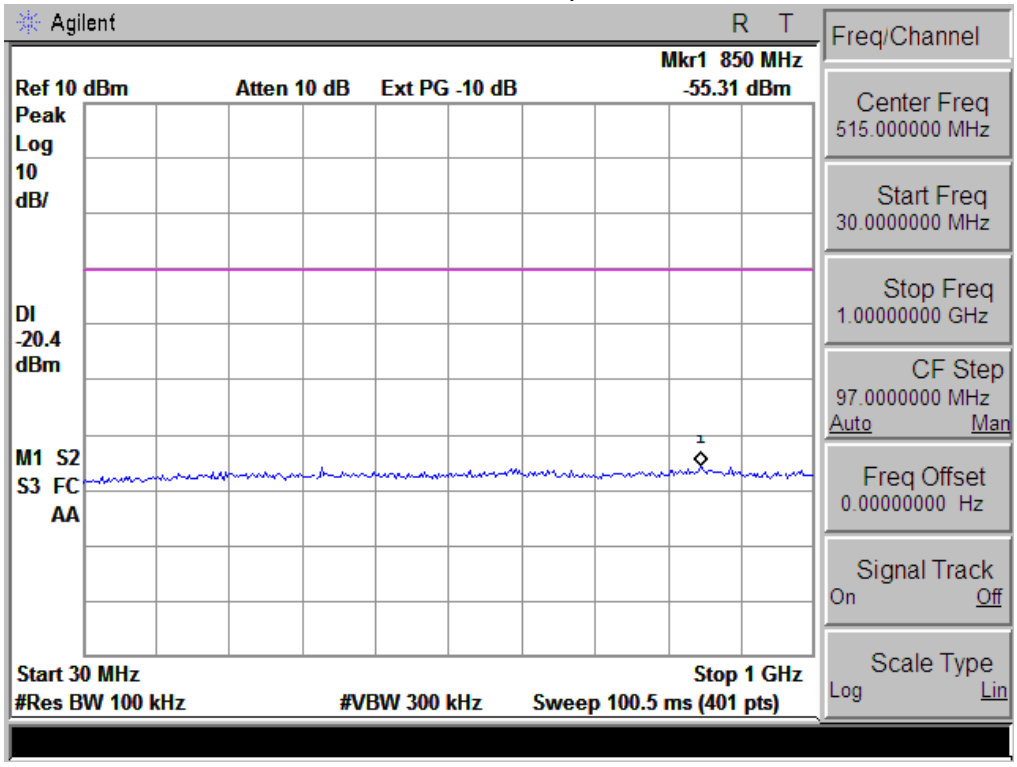

Agilent
R T
Mkr1 2.38 GHz
Ref 10 dBm
Atten 10 dB
Ext PG -10 dB
-0.598 dBm
Peak
Log
10
dB/
DI
-20.6
dBm
M1 S2
S3 FC
AA
Center 13 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 24 GHz
Sweep 2.486 s (401 pts)
Freq/Channel
Center Freq
13.0000000 GHz
Start Freq
1.00000000 GHz
Stop Freq
25.0000000 GHz
CF Step
2.40000000 GHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Scale Type
Log
Lin

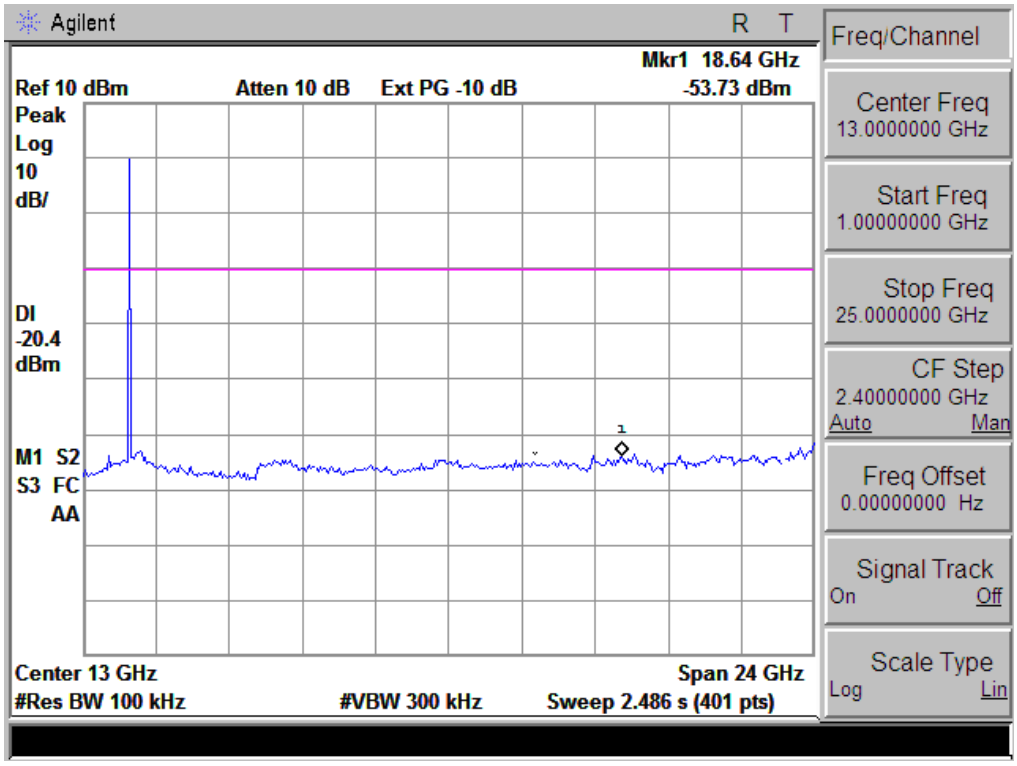
CH39 -3Mbps


Agilent
R T
Mkr1 146 MHz
Ref 10 dBm
Atten 10 dB
Ext PG -10 dB
-55.77 dBm
Peak
Log
10
dB/
DI
-20.8
dBm
M1 S2
S3 FC
AA
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1 GHz
Sweep 100.5 ms (401 pts)
Freq/Channel
Center Freq
515.000000 MHz
Start Freq
30.0000000 MHz
Stop Freq
1.00000000 GHz
CF Step
97.0000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Scale Type
Log
Lin


Agilent
R T
Mkr1 21.76 GHz
Ref 10 dBm
Atten 10 dB
Ext PG -10 dB
-52.79 dBm
Peak
Log
10
dB/
DI
-20.8
dBm
M1 S2
S3 FC
AA
Center 13 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 24 GHz
Sweep 2.486 s (401 pts)
Freq/Channel
Center Freq
13.0000000 GHz
Start Freq
1.00000000 GHz
Stop Freq
25.0000000 GHz
CF Step
2.40000000 GHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Scale Type
Log
Lin

CH78 -3Mbps


Agilent
R T
Mkr1 850 MHz
Ref 10 dBm
Atten 10 dB
Ext PG -10 dB
-55.31 dBm
Peak
Log
10
dB/
DI
-20.4
dBm
M1 S2
S3 FC
AA
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1 GHz
Sweep 100.5 ms (401 pts)
Freq/Channel
Center Freq
515.000000 MHz
Start Freq
30.0000000 MHz
Stop Freq
1.00000000 GHz
CF Step
97.0000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Scale Type
Log
Lin


Agilent
R T
Mkr1 18.64 GHz
Ref 10 dBm
Atten 10 dB
Ext PG -10 dB
-53.73 dBm
Peak
Log
10
dB/
DI
-20.4
dBm
M1 S2
S3 FC
AA
Center 13 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 24 GHz
Sweep 2.486 s (401 pts)
Freq/Channel
Center Freq
13.0000000 GHz
Start Freq
1.00000000 GHz
Stop Freq
25.0000000 GHz
CF Step
2.40000000 GHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Scale Type
Log
Lin

4. NUMBER OF HOPPING CHANNEL

4.1 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	= the frequency band of operation
RB	RBW ≥ 1% of the span
VB	VBW ≥ RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

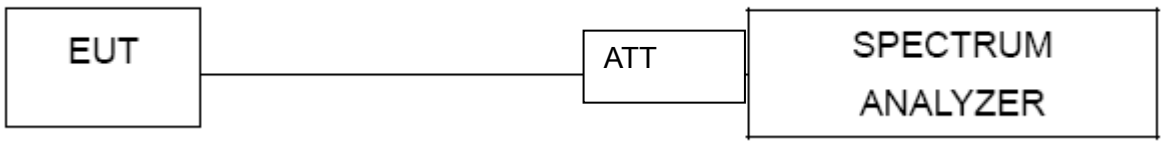
4.1.1 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
b. Spectrum Setting : RBW= 1MHz, VBW=3MHz, Sweep time = Auto.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



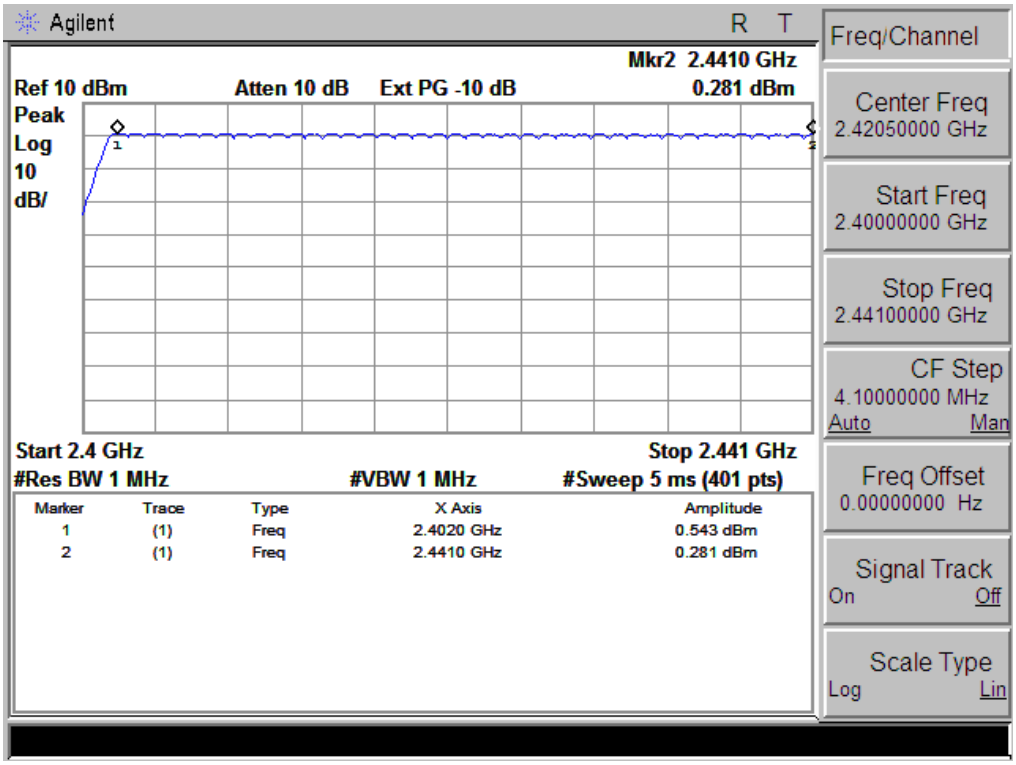
4.1.4 EUT OPERATION CONDITIONS

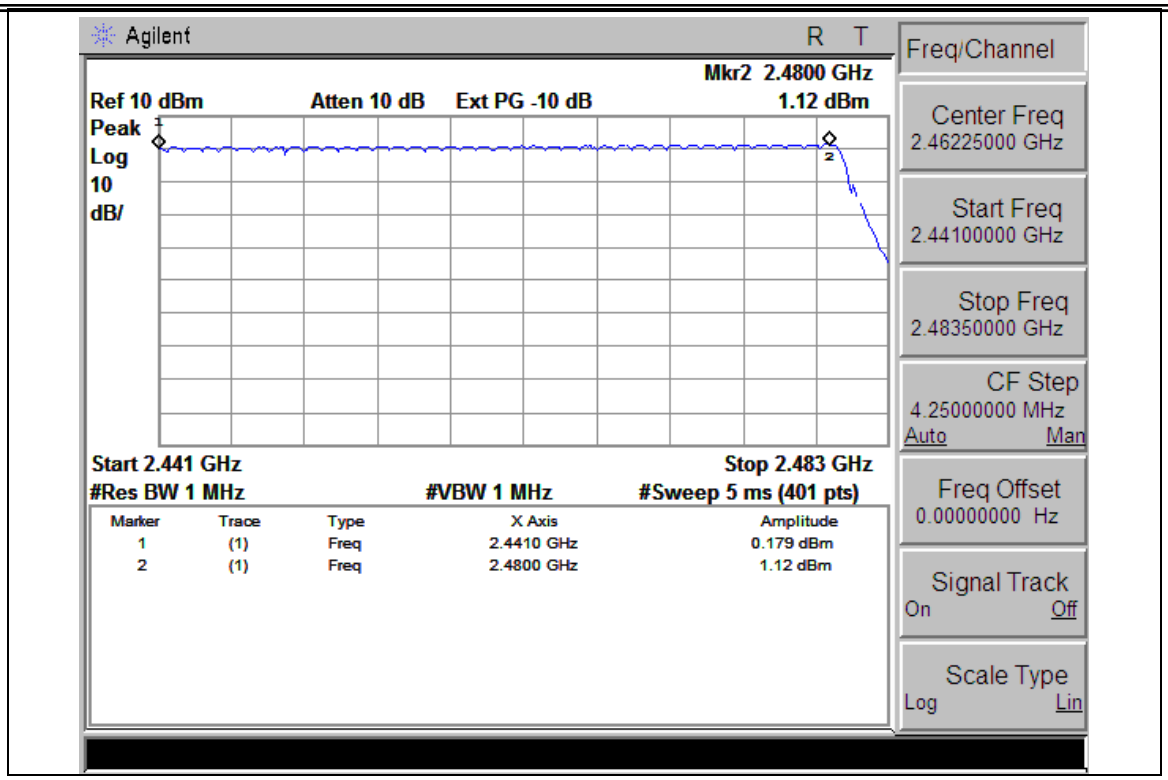
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

4.1.5 TEST RESULTS

EUT：	Android Tablet PC	Model Name ：	CLE-DSM-7013
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1015 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	Hopping Mode		

Number of Hopping Channel	79




Agilent
R T
Mkr2 2.4800 GHz
Ref 10 dBm
Atten 10 dB
Ext PG -10 dB
1.12 dBm
Peak
Log
10
dB/
Start 2.441 GHz
#Res BW 1 MHz
#VBW 1 MHz
Stop 2.483 GHz
#Sweep 5 ms (401 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.4410 GHz 0.179 dBm
2 (1) Freq 2.4800 GHz 1.12 dBm
Freq/Channel
Center Freq
2.46225000 GHz
Start Freq
2.44100000 GHz
Stop Freq
2.48350000 GHz
CF Step
4.25000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Scale Type
Log Lin

5. AVERAGE TIME OF OCCUPANCY

5.1 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

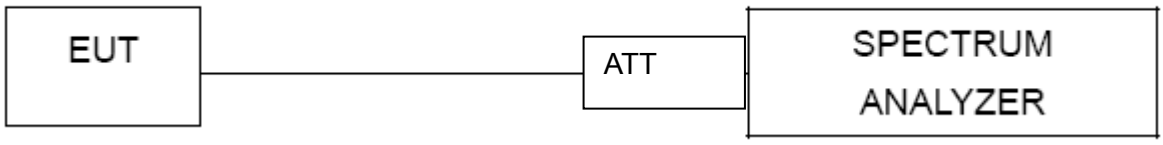
5.1.1 TEST PROCEDURE

a. The transmitter output (antenna port) was connected to the spectrum analyzer
b. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
c. Use a video trigger with the trigger level set to enable triggering only on full pulses.
d. Sweep Time is more than once pulse time.
e. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
f. Measure the maximum time duration of one single pulse.
g. Set the EUT for DH5, DH3 and DH1 packet transmitting.
h. Measure the maximum time duration of one single pulse.
i. A Period Time = (channel number)*0.4
DH1 Time Slot: Reading * (1600/2)*31.6/(channel number)
DH3 Time Slot: Reading * (1600/4)*31.6/(channel number)
DH5 Time Slot: Reading * (1600/6)*31.6/(channel number)

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

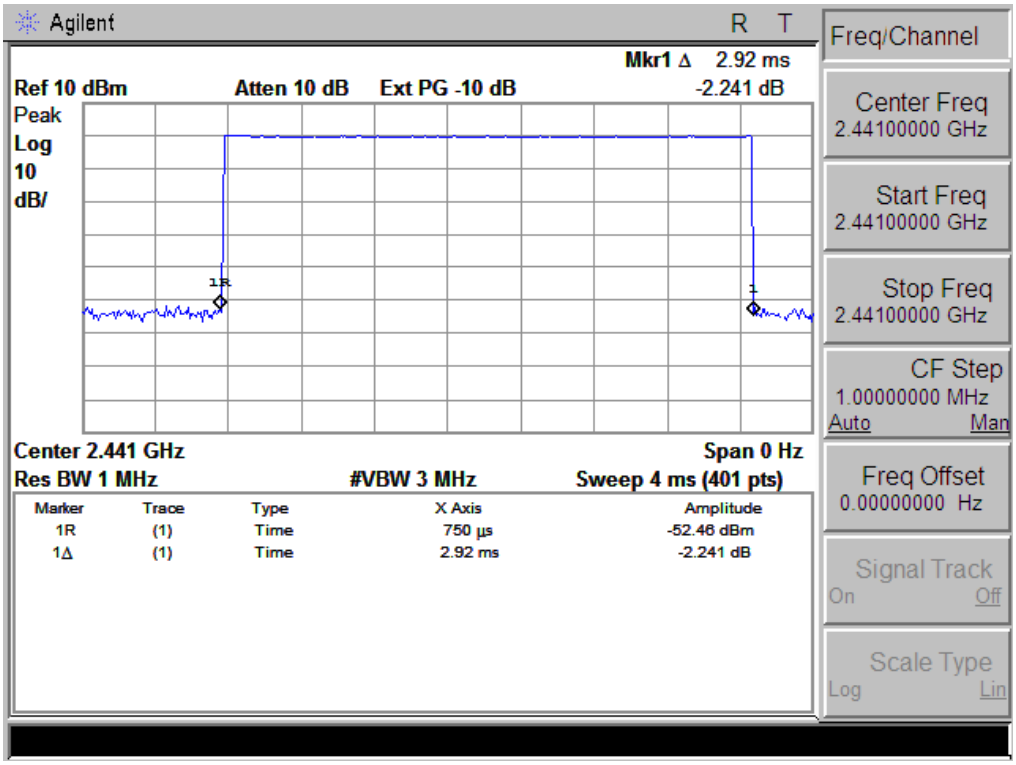
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 TEST RESULTS

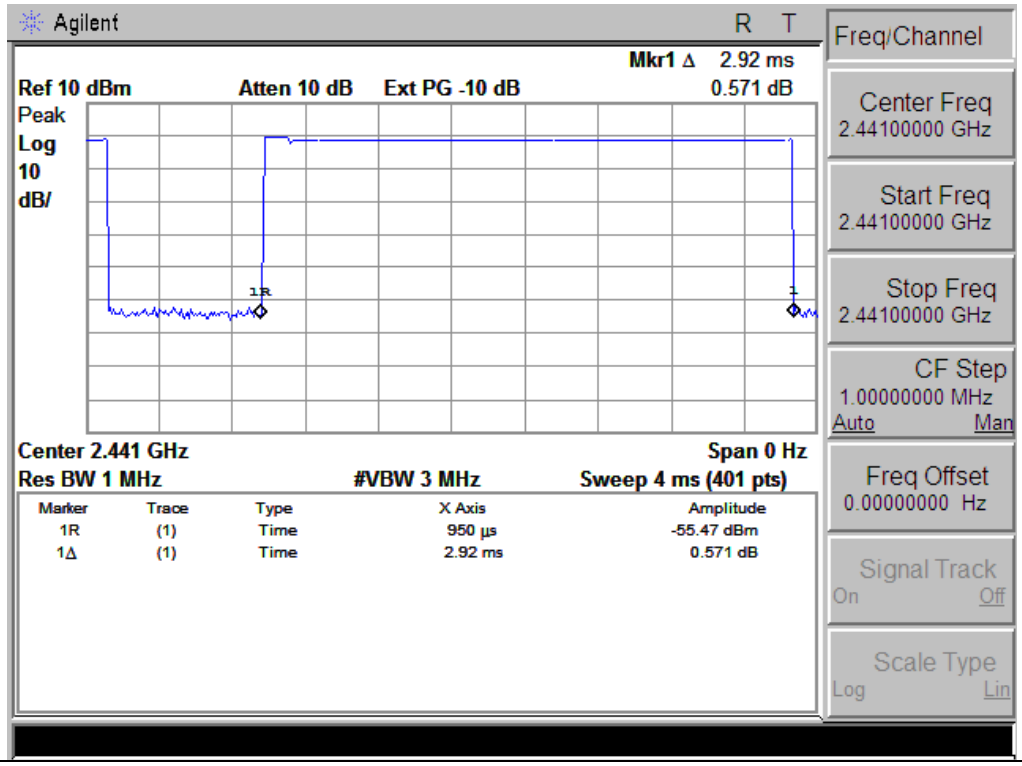
EUT：	Android Tablet PC	Model Name ：	CLE-DSM-7013
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH39-DH5,2DH5,3DH5		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2441 MHz	2.92	0.31	0.4
2DH5	2441 MHz	2.92	0.31	0.4
3DH5	2441 MHz	2.93	0.31	0.4

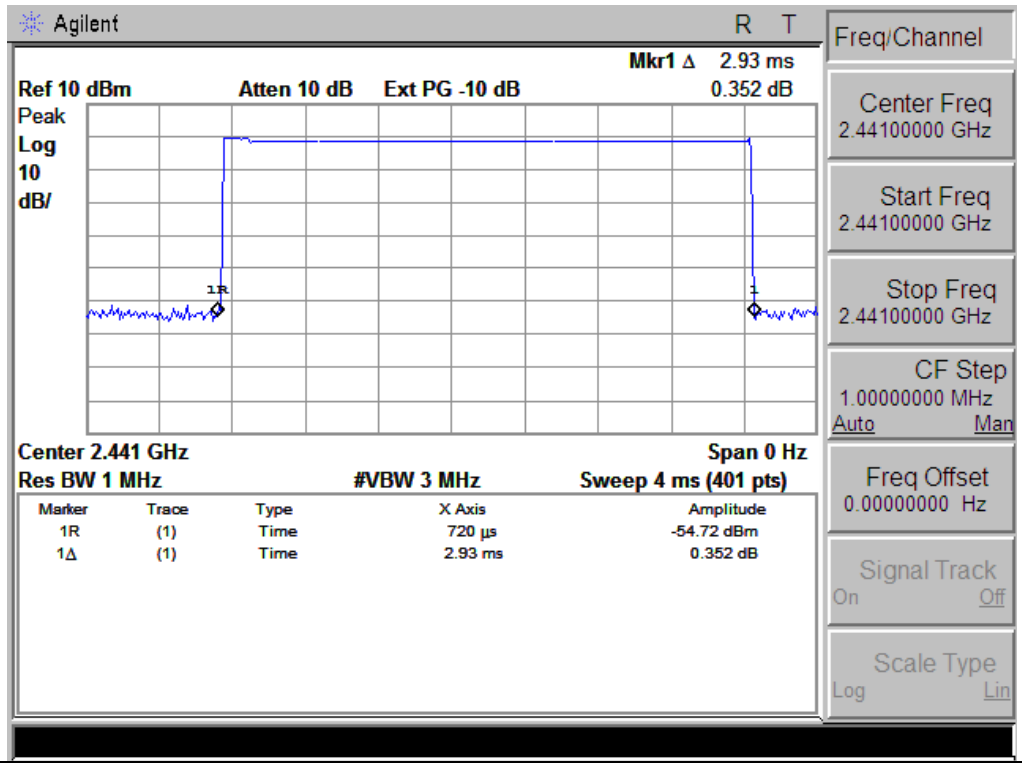
CH39-DH5



CH39-2DH5



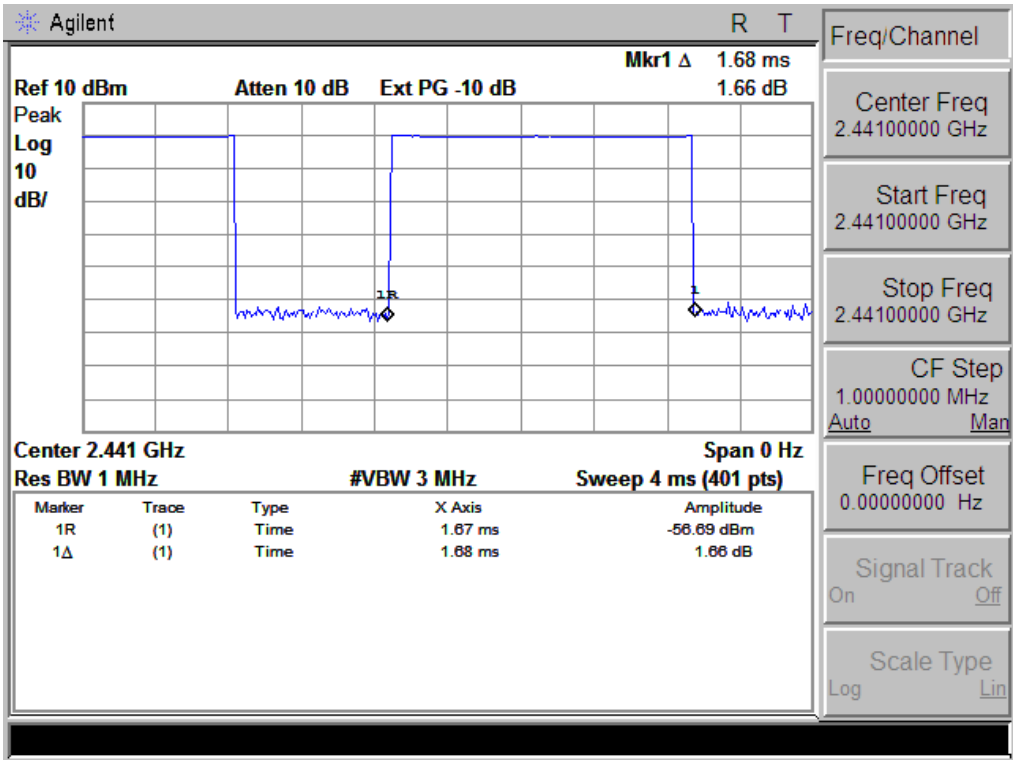
CH39-3DH5



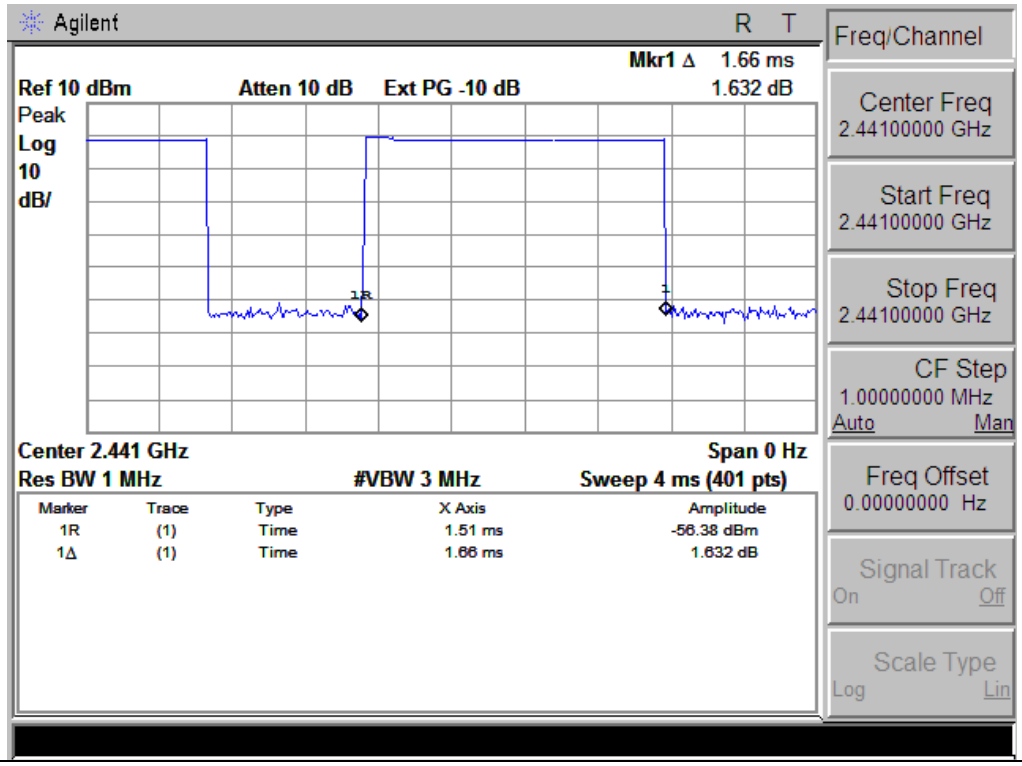
EUT：	Android Tablet PC	Model Name ：	CLE-DSM-7013
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH39-DH3,2DH3,3DH3		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH3	2441 MHz	1.68	0.27	0.4
2DH3	2441 MHz	1.66	0.27	0.4
3DH3	2441 MHz	1.68	0.27	0.4

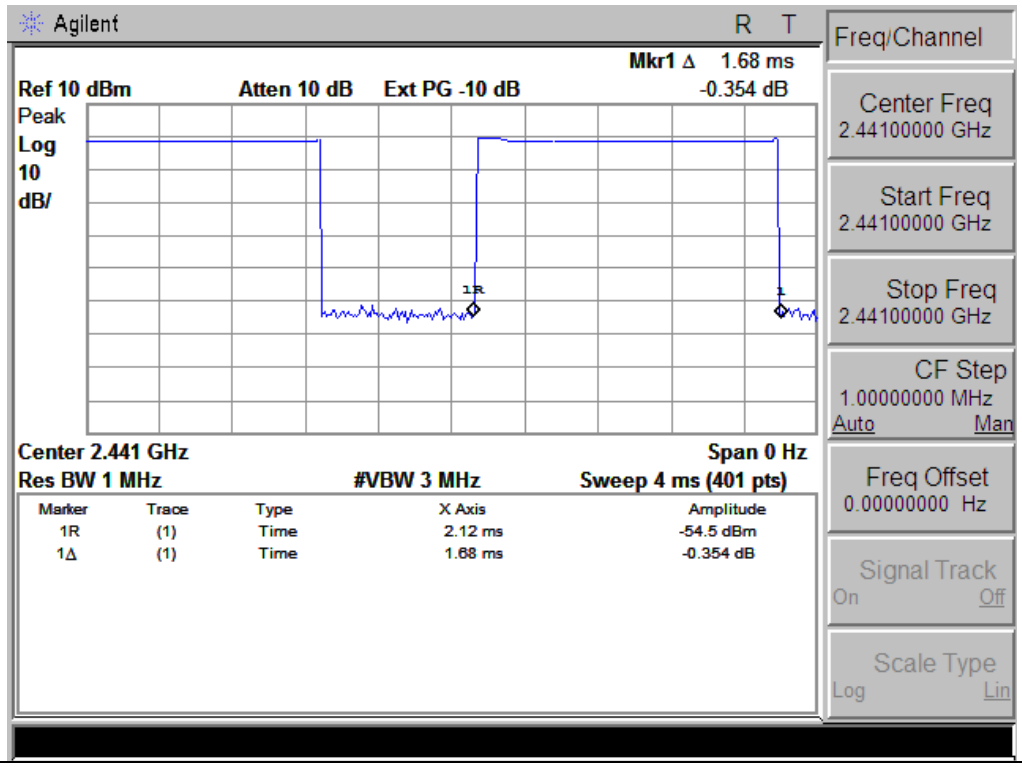
CH39-DH3



CH39-2DH3



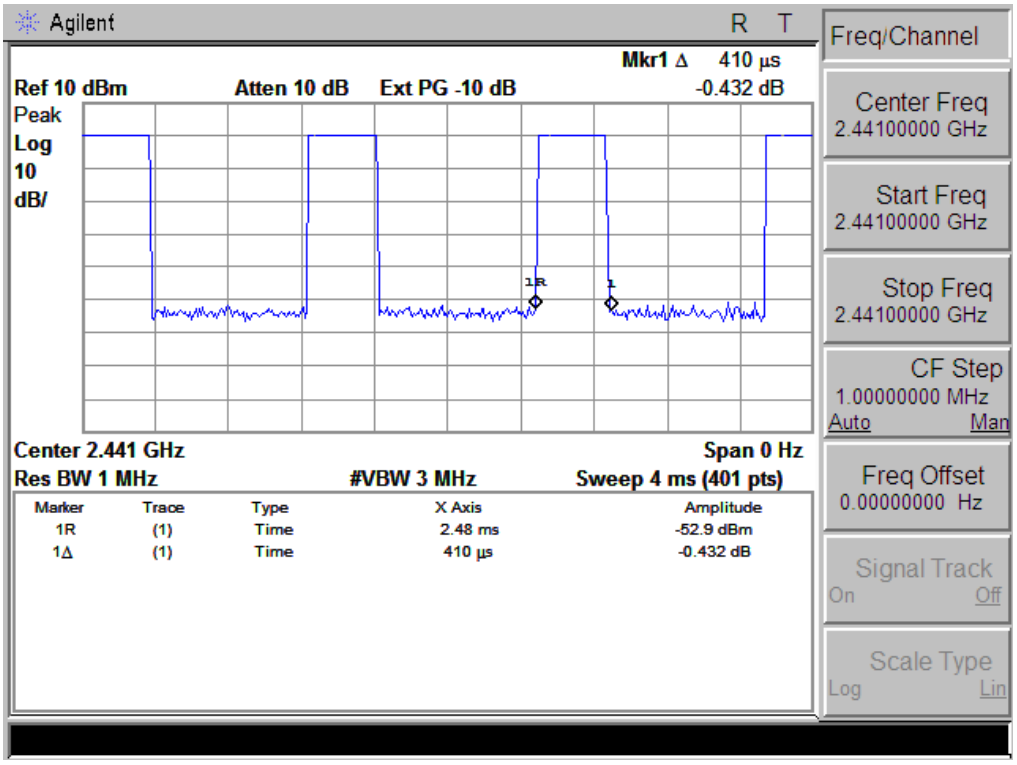
CH39-3DH3



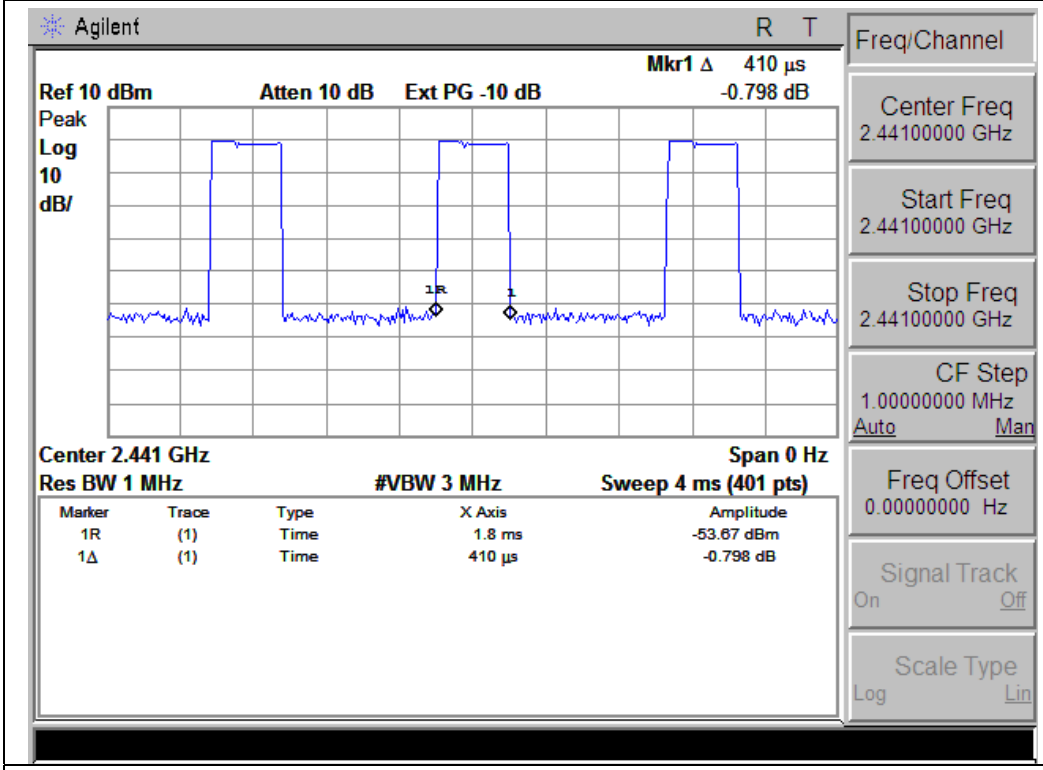
EUT：	Android Tablet PC	Model Name ：	CLE-DSM-7013
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH39-DH1,2DH1,3DH1		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH1	2441 MHz	0.41	0.13	0.4
2DH1	2441 MHz	0.41	0.13	0.4
3DH1	2441 MHz	0.41	0.13	0.4

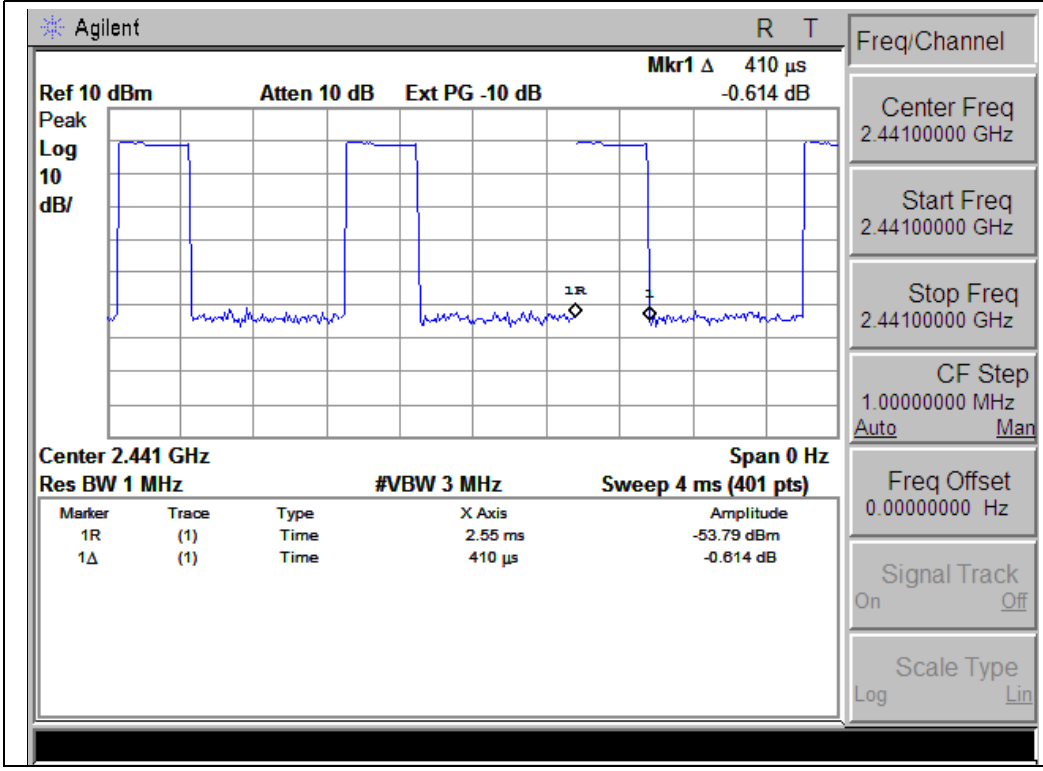
CH39-DH1



CH39-2DH1



CH39-3DH1



6. HOPPING CHANNEL SEPARATION MEASUREMENT

6.1 APPLIED PROCEDURES / LIMIT

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 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
VB	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

6.1.1 TEST PROCEDURE

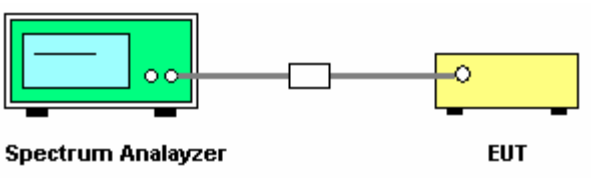
a. The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.

b. The resolution bandwidth of 30 kHz and the video bandwidth of 100 kHz were utilised for channel separation measurement.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

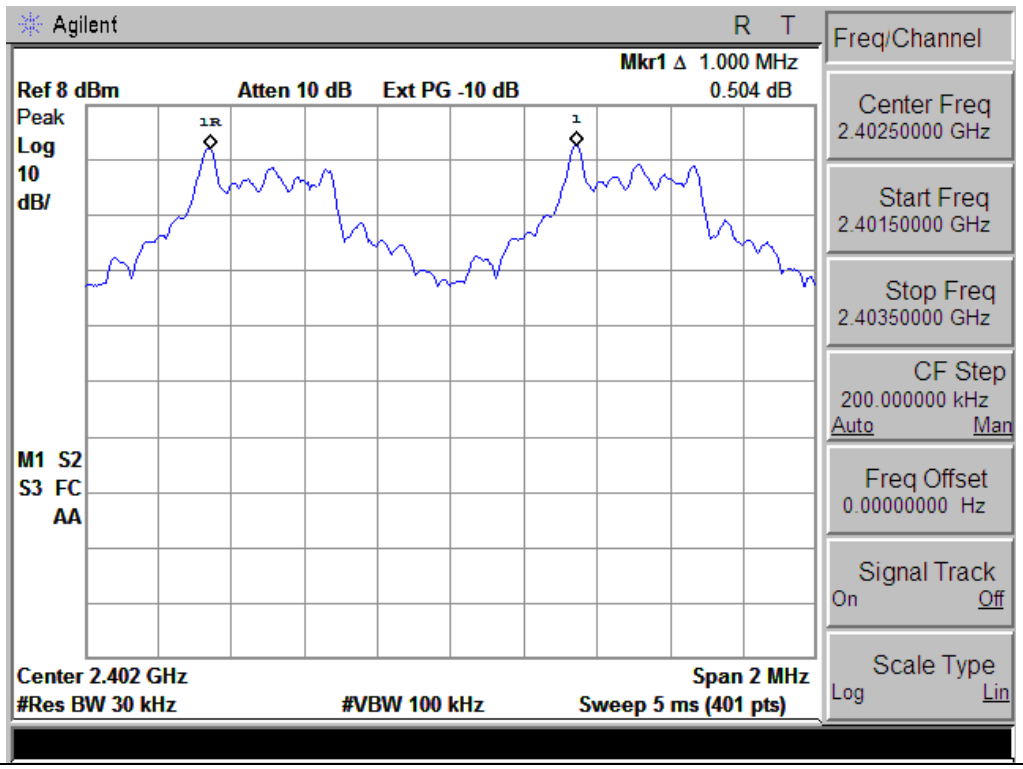
6.1.5 TEST RESULTS

EUT：	Android Tablet PC	Model Name ：	CLE-DSM-7013
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH00 / CH39 /CH78 (1Mbps Mode)		

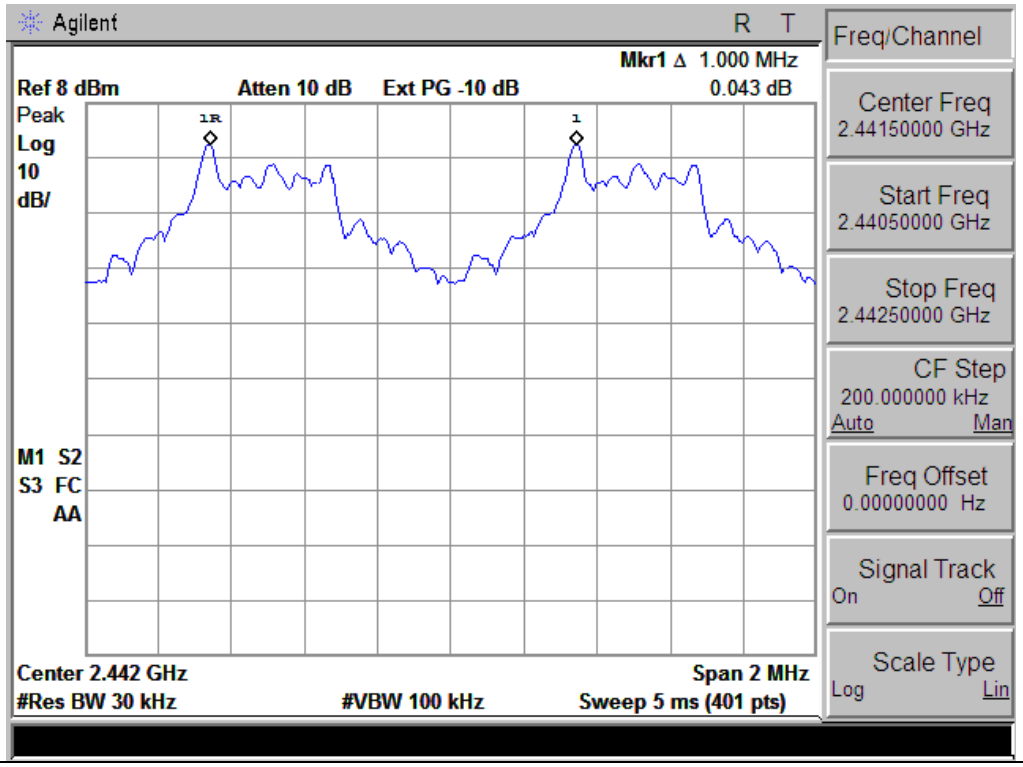
Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.000	**Complies**
2441 MHz	1.000	**Complies**
2480 MHz	1.000	**Complies**

Ch. Separation Limits: >20dB bandwidth

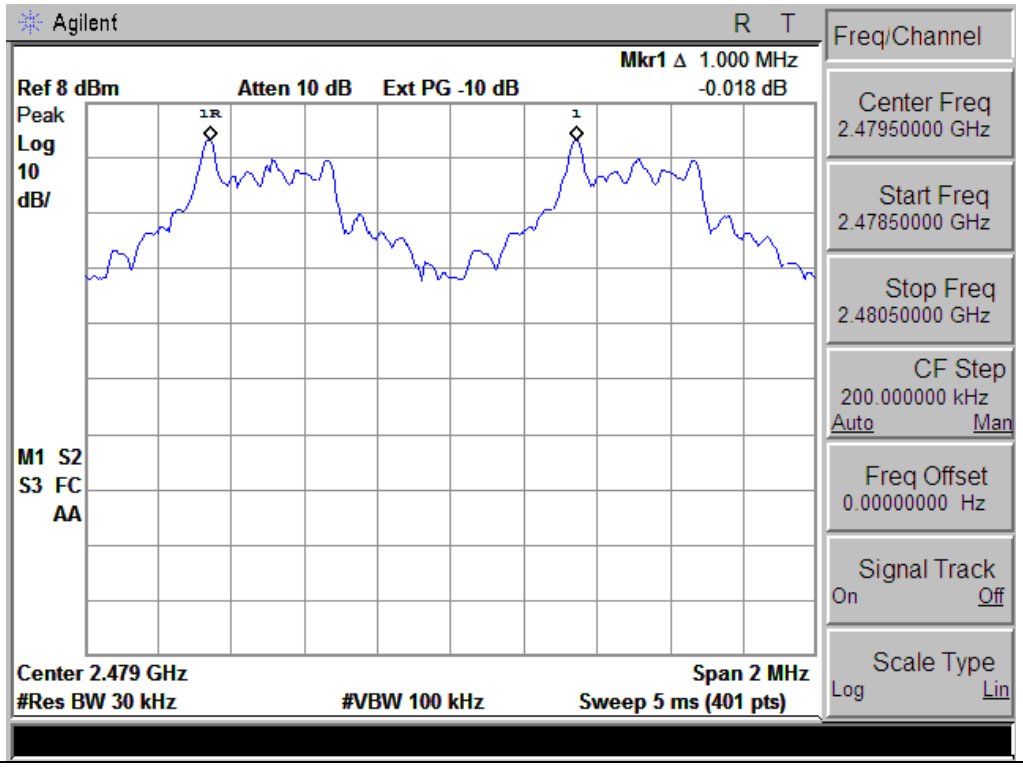
CH00 -1Mbps



CH39 -1Mbps



CH78 -1Mbps

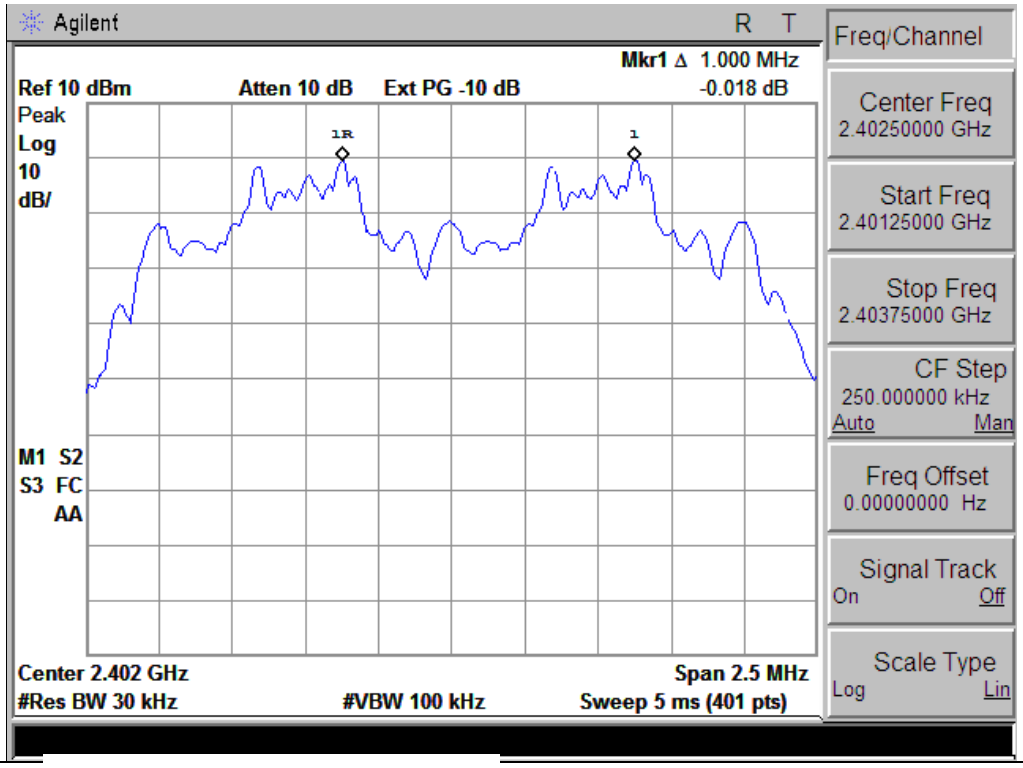


EUT：	Android Tablet PC	Model Name ：	CLE-DSM-7013
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH00 / CH39 /CH78 (2Mbps Mode)		

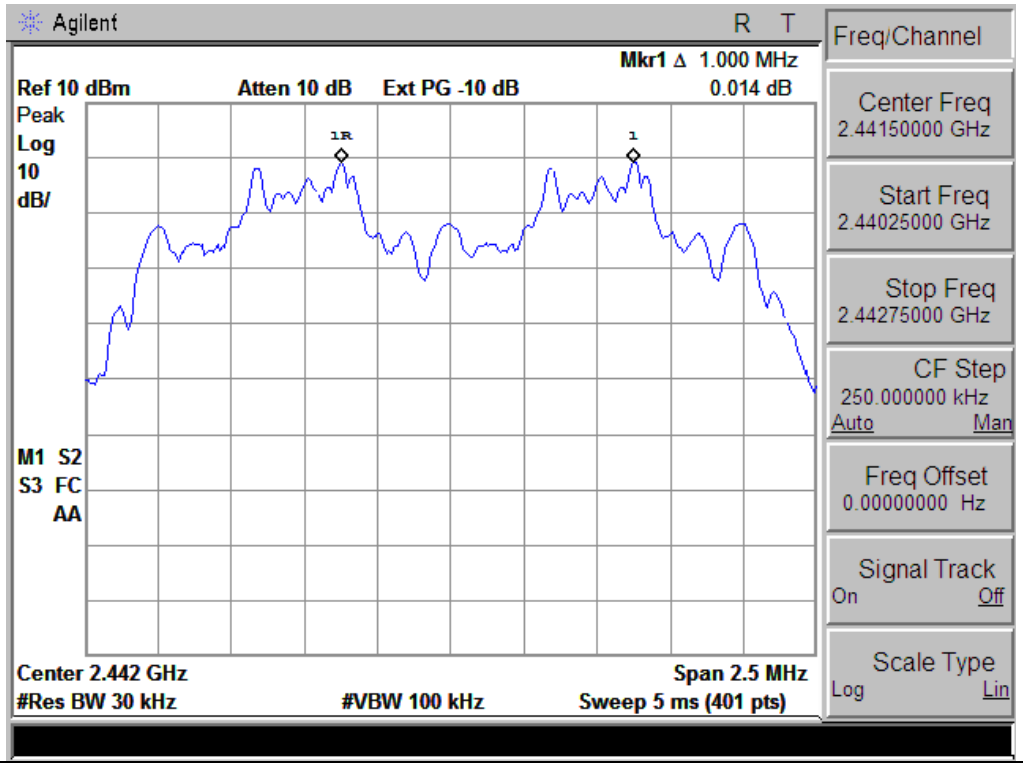
Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.000	**Complies**
2441 MHz	1.000	**Complies**
2480 MHz	1.000	**Complies**

Ch. Separation Limits: >2/3 of 20dB bandwidth

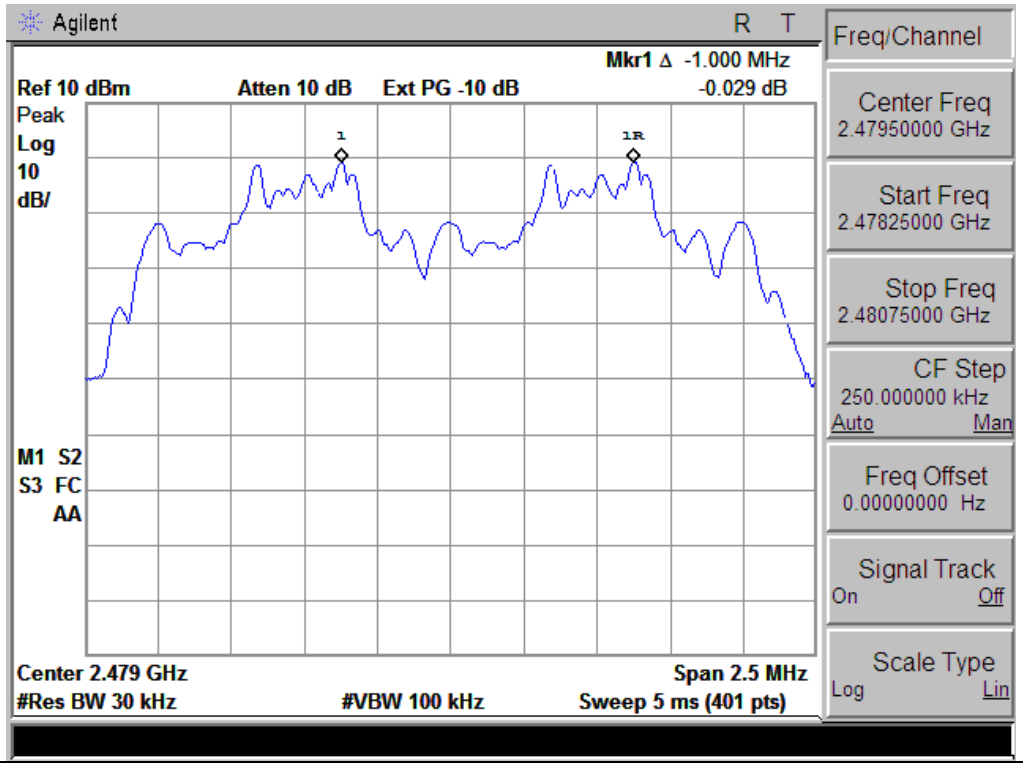
CH00 -2Mbps



CH39 -2Mbps



CH78 -2Mbps

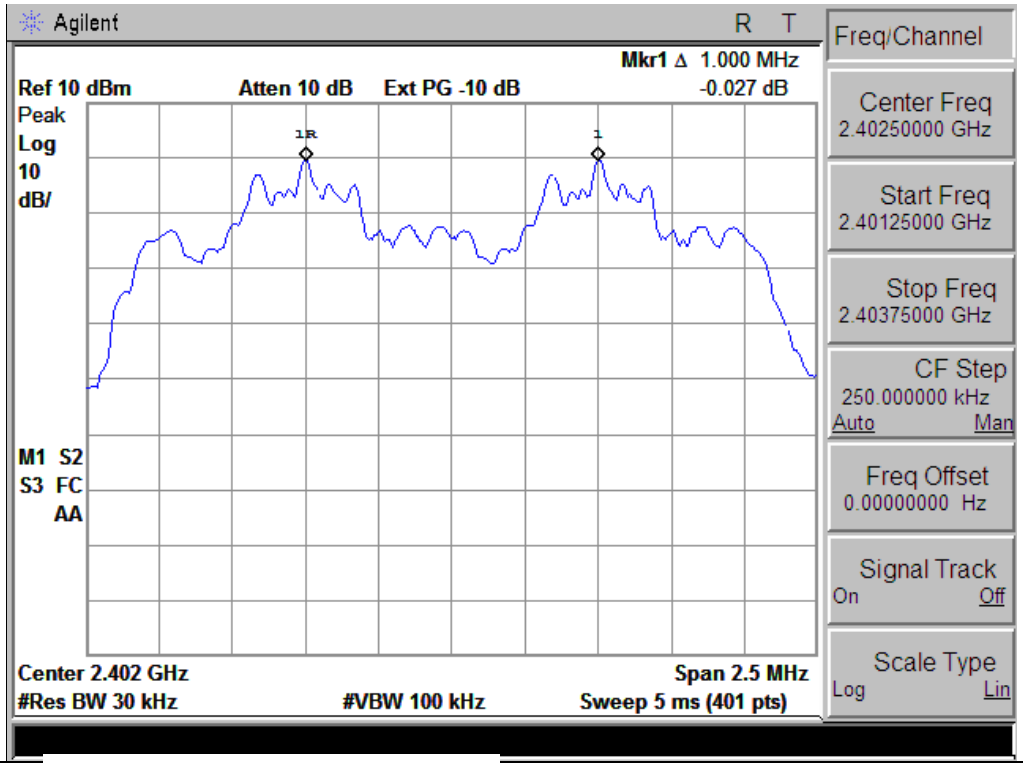


EUT：	Android Tablet PC	Model Name ：	CLE-DSM-7013
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH00 / CH39 /CH78 (3Mbps Mode)		

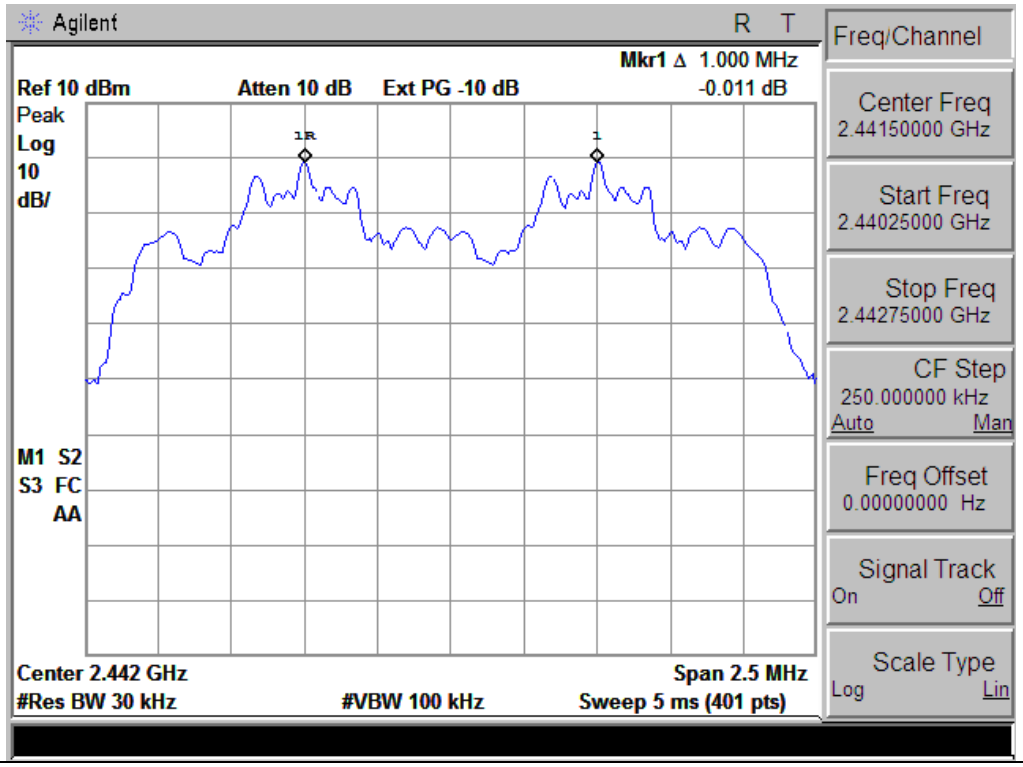
Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.000	**Complies**
2441 MHz	1.000	**Complies**
2480 MHz	1.000	**Complies**

Ch. Separation Limits: >2/3 of 20dB bandwidth

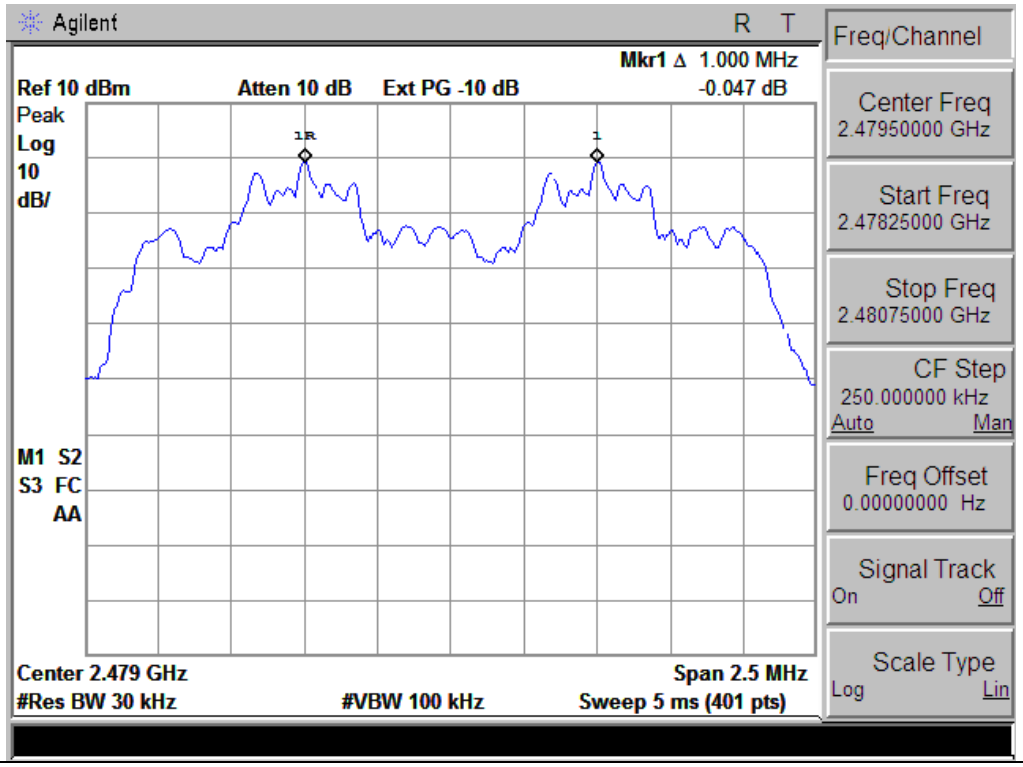
CH00 -3Mbps



CH39 -3Mbps



CH78 -3Mbps



7. BANDWIDTH TEST

7.1 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
VB	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

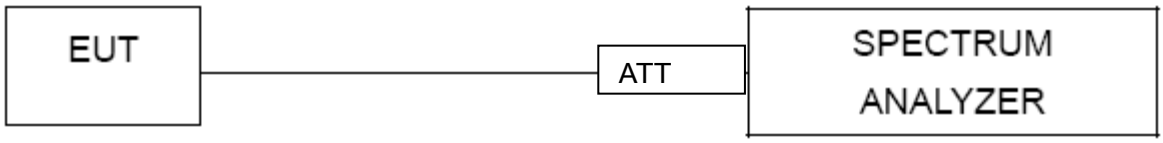
7.1.1 TEST PROCEDURE

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

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

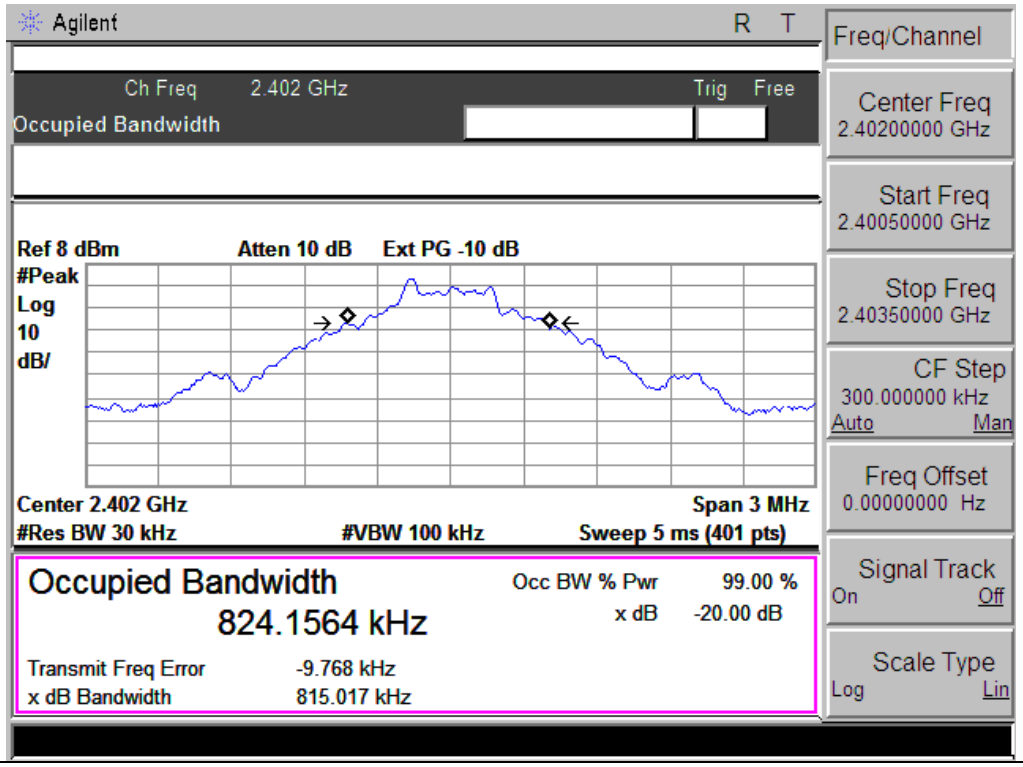
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

7.1.5 TEST RESULTS

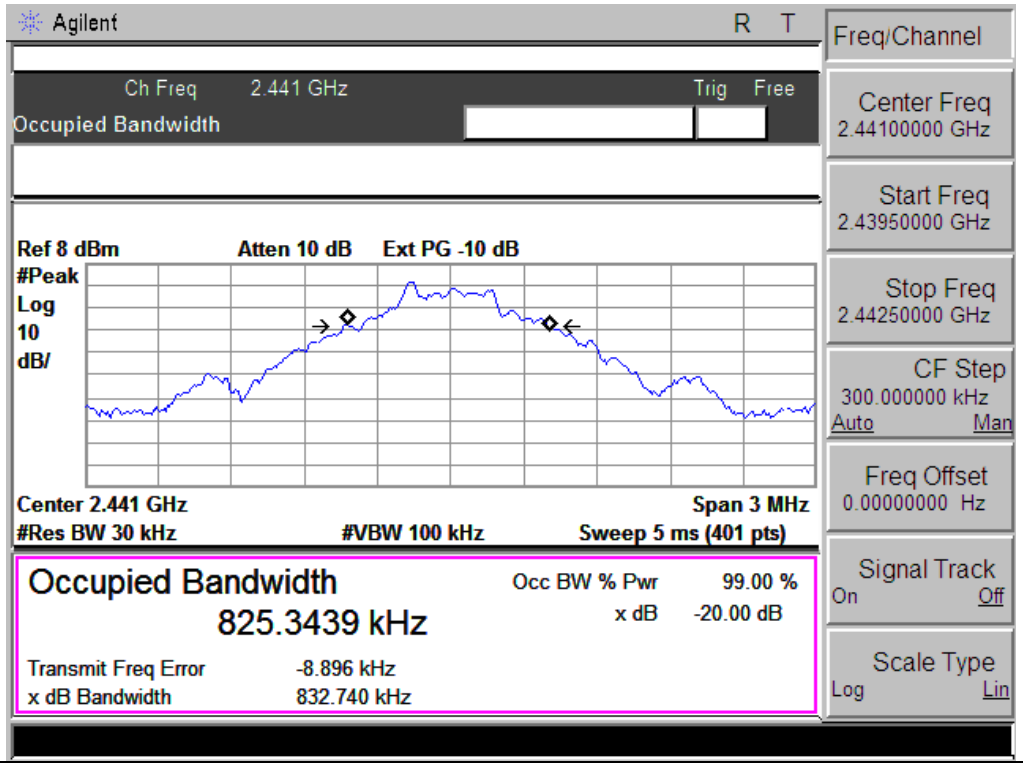
EUT：	Android Tablet PC	Model Name ：	CLE-DSM-7013
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH00 / CH39 /C78**(1Mbps)**		

Frequency	20dB Bandwidth (kHz)	Result
2402 MHz	815.017	**PASS**
2441 MHz	832.740	**PASS**
2480 MHz	828.870	**PASS**

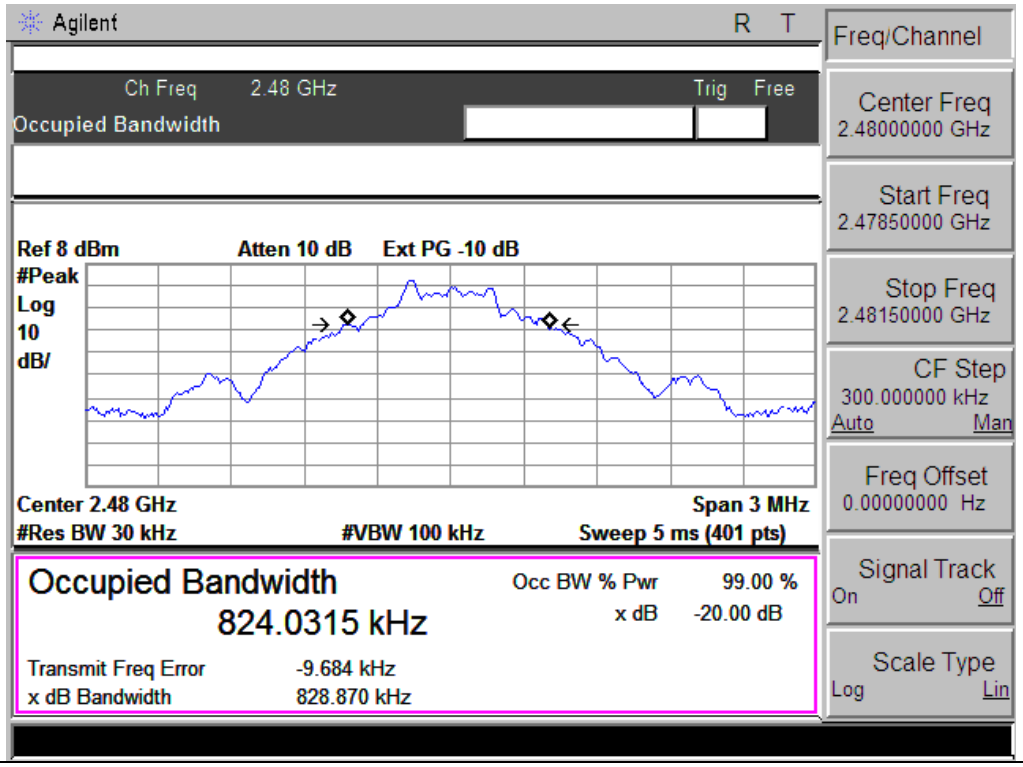
CH00 -1Mbps



CH39 -1Mbps



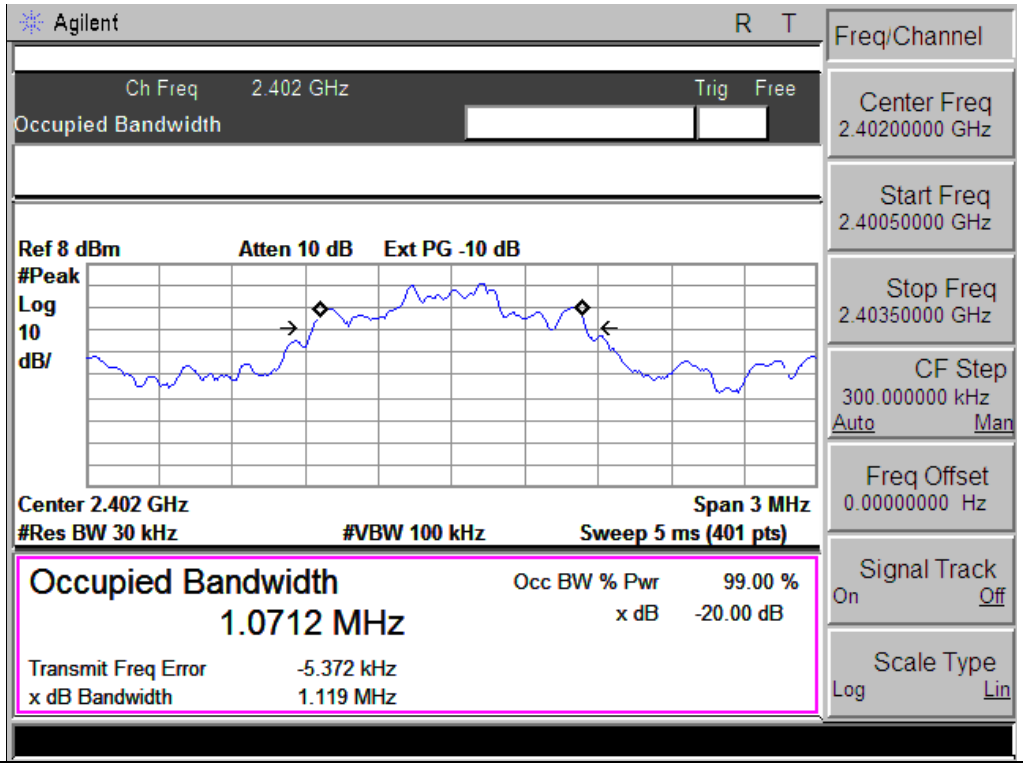
CH78 -1Mbps



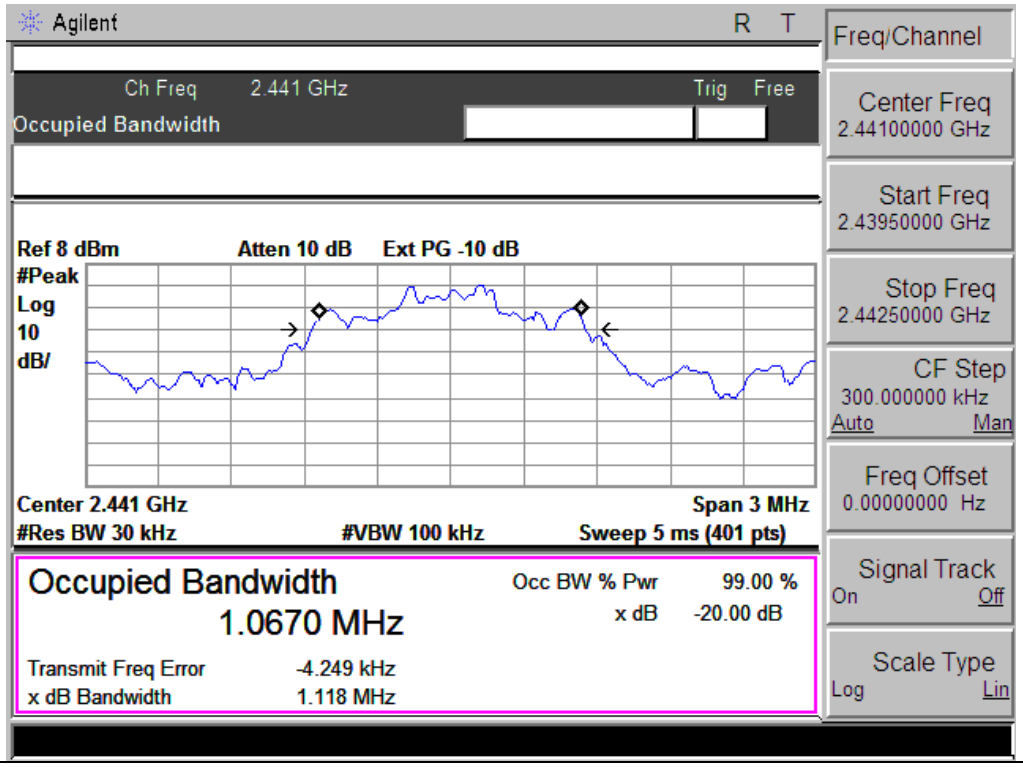
EUT：	Android Tablet PC	Model Name ：	CLE-DSM-7013
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH00 / CH39 /C78**(2Mbps)**		

Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	1.119	**PASS**
2441 MHz	1.118	**PASS**
2480 MHz	1.122	**PASS**

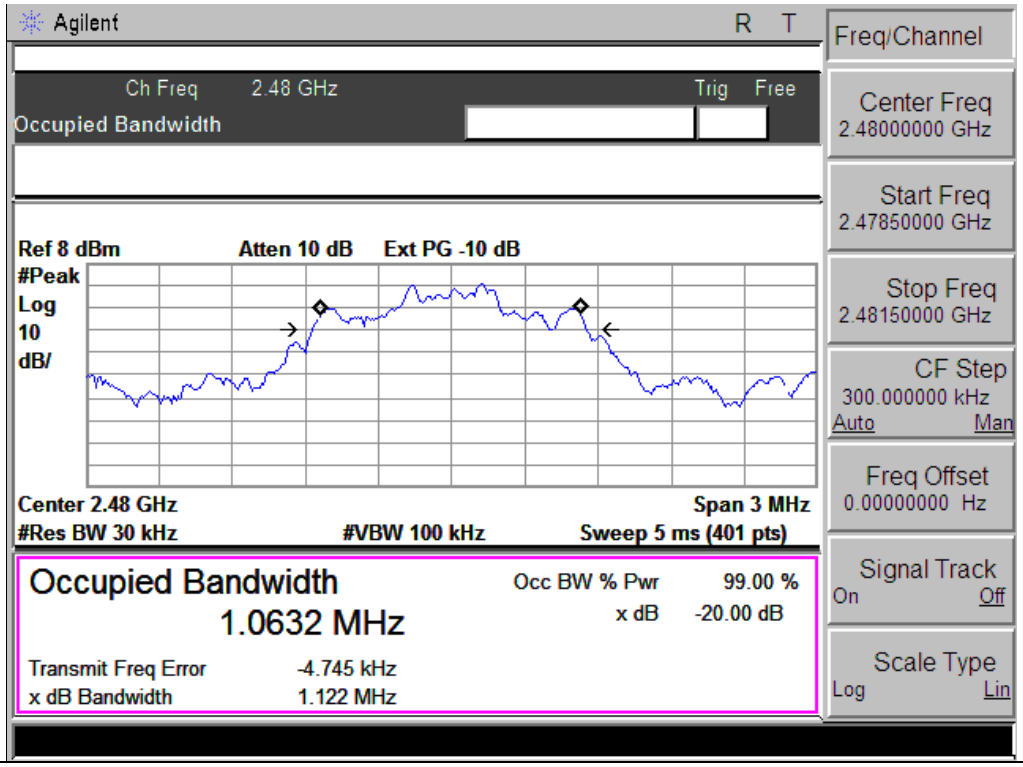
CH00 -2Mbps



CH39 -2Mbps



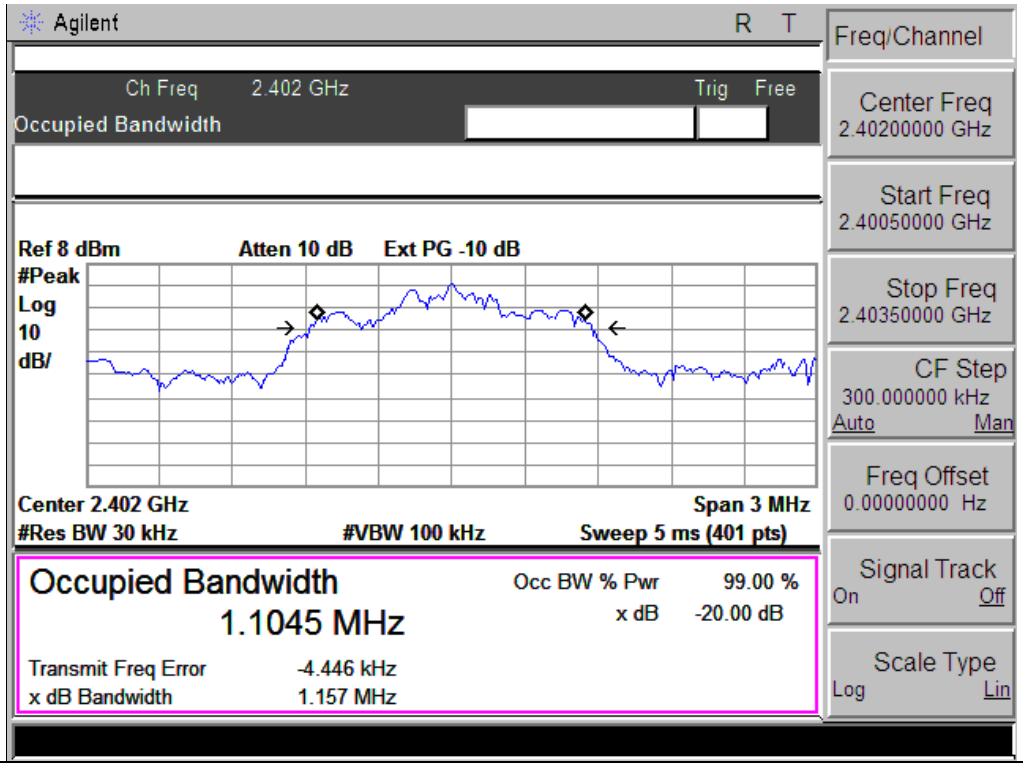
CH78 -2Mbps



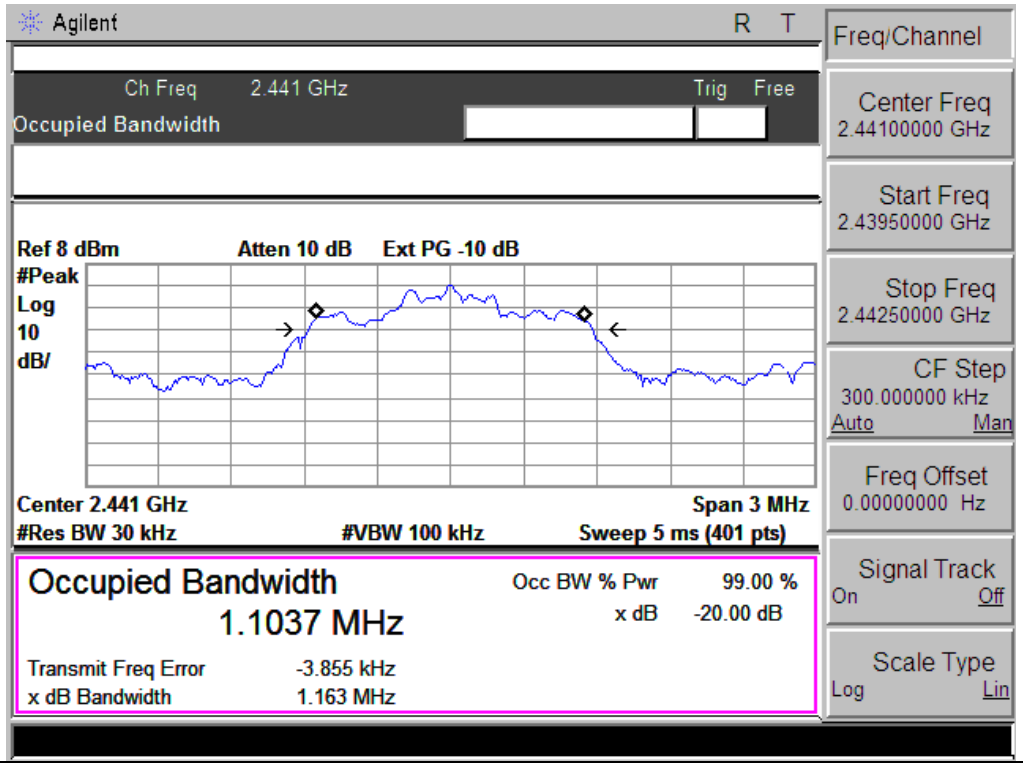
EUT：	Android Tablet PC	Model Name ：	CLE-DSM-7013
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH00 / CH39 /C78**(3Mbps)**		

Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	1.157	**PASS**
2441 MHz	1.163	**PASS**
2480 MHz	1.167	**PASS**

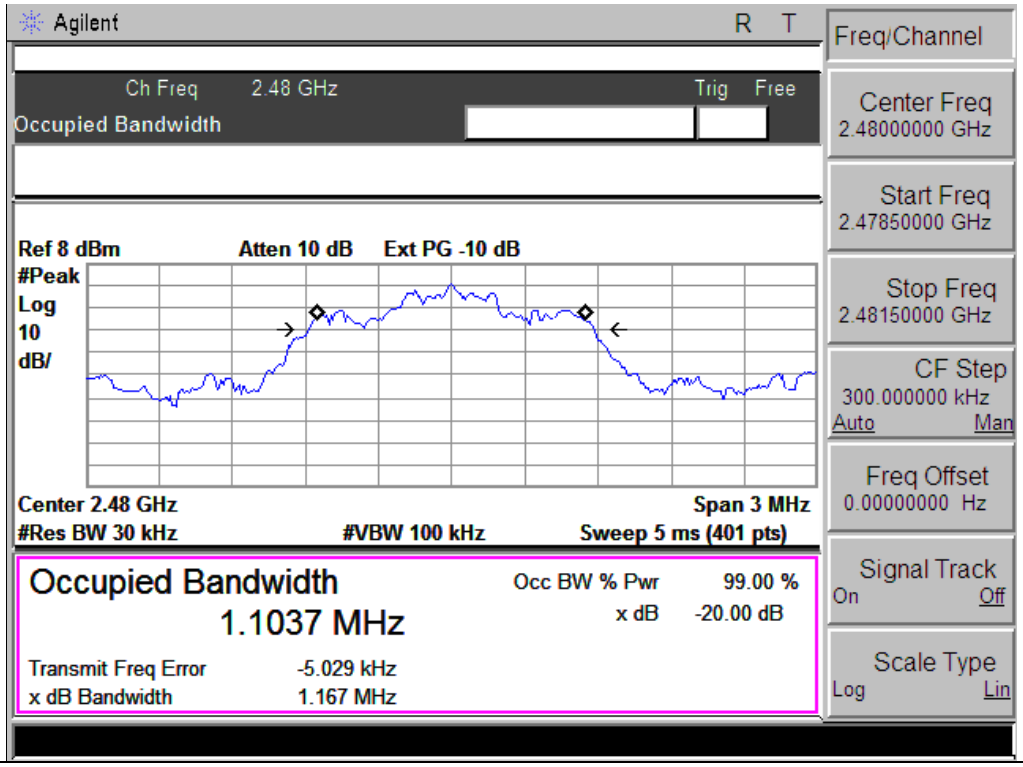
CH00 -3Mbps



CH39 -3Mbps



CH78 -3Mbps



8. PEAK OUTPUT POWER TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (b)(i)	Peak Output Power	0.125 w or 1w	2400-2483.5	PASS

8.1.1 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

b. Spectrum Setting : RBW > the 20 dB bandwidth of the emission being measured

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

VBW ≥ RBW

Sweep = auto

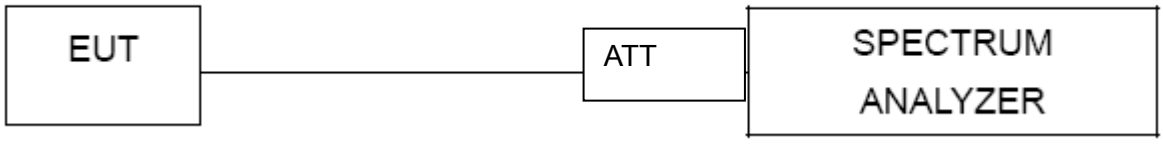
Detector function = peak

Trace = max hold

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



8.1.4 EUT OPERATION CONDITIONS

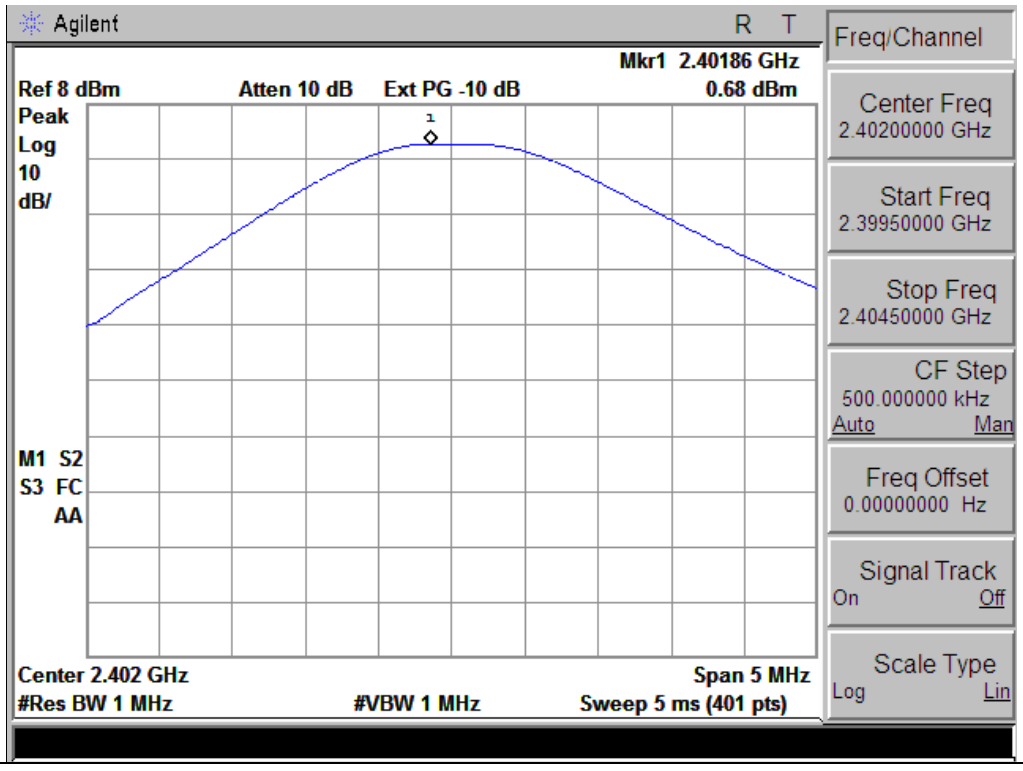
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

8.1.5 TEST RESULTS

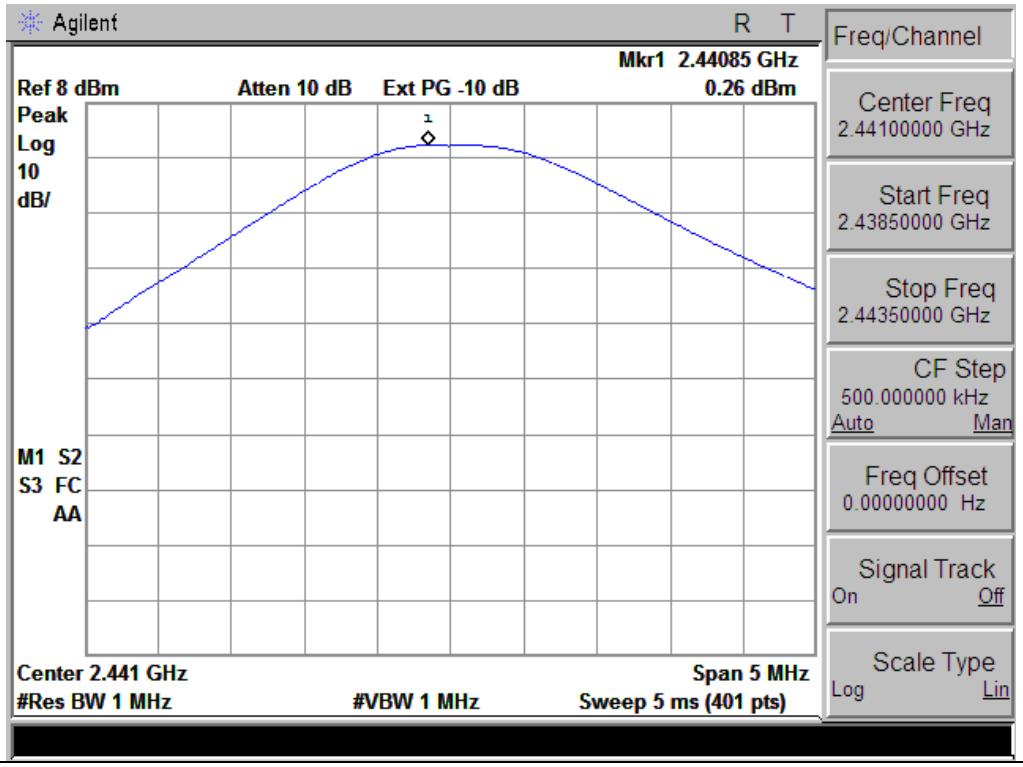
EUT：	Android Tablet PC	Model Name ：	CLE-DSM-7013
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 3.3V
Test Mode ：	CH00/ CH39 /CH78 (1M/2M/3Mbps Mode)		

1Mbps			
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)
CH00	2402	0.68	30
CH39	2441	0.26	30
CH78	2480	1.07	30
2Mbps			
CH00	2402	0.132	20.96
CH39	2441	-0.238	20.96
CH78	2480	0.621	20.96
3Mbps			
CH00	2402	0.277	20.96
CH39	2441	-0.107	20.96
CH78	2480	0.787	20.96

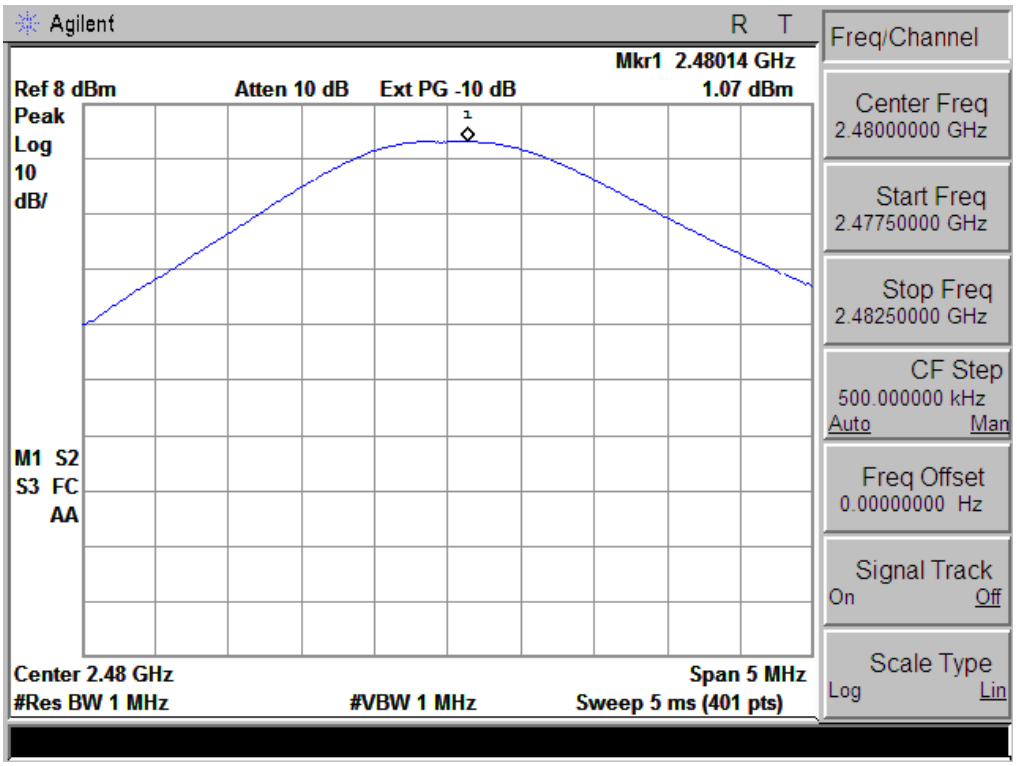
CH00 -1Mbps



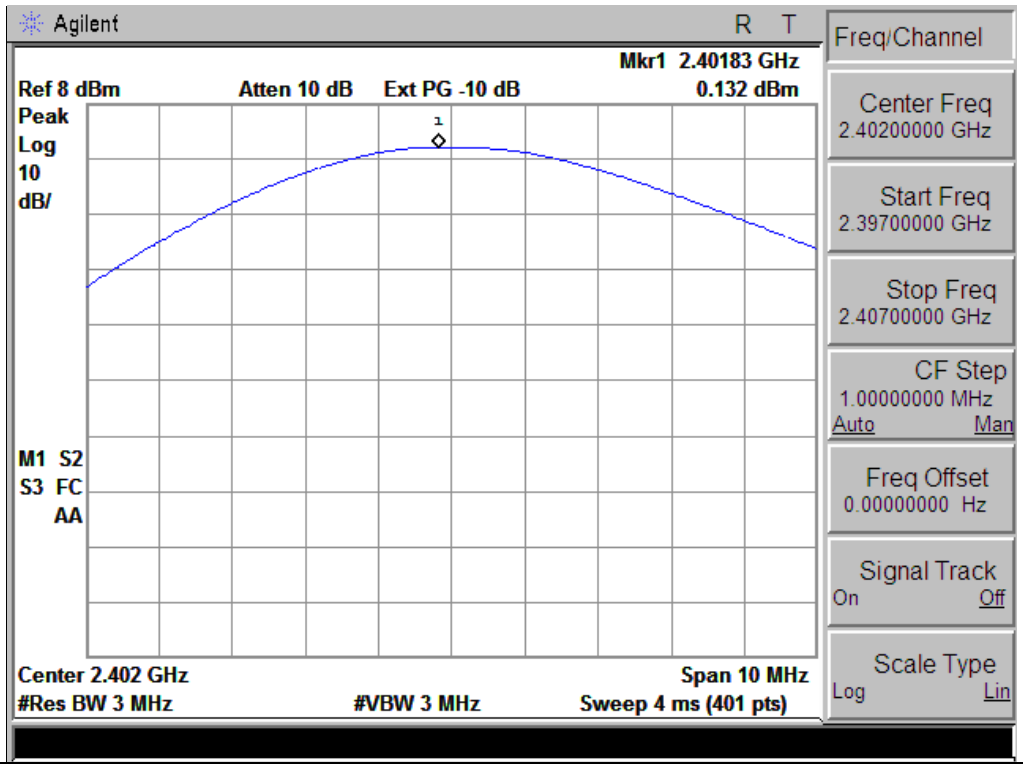
CH39 -1Mbps



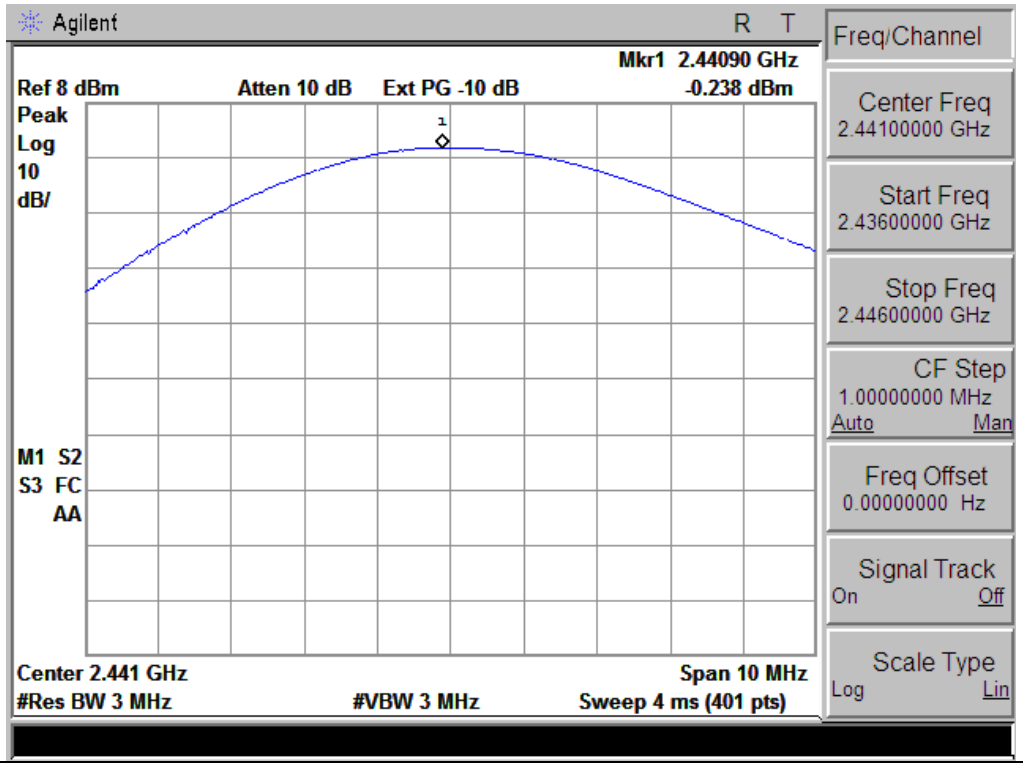
CH78 -1Mbps



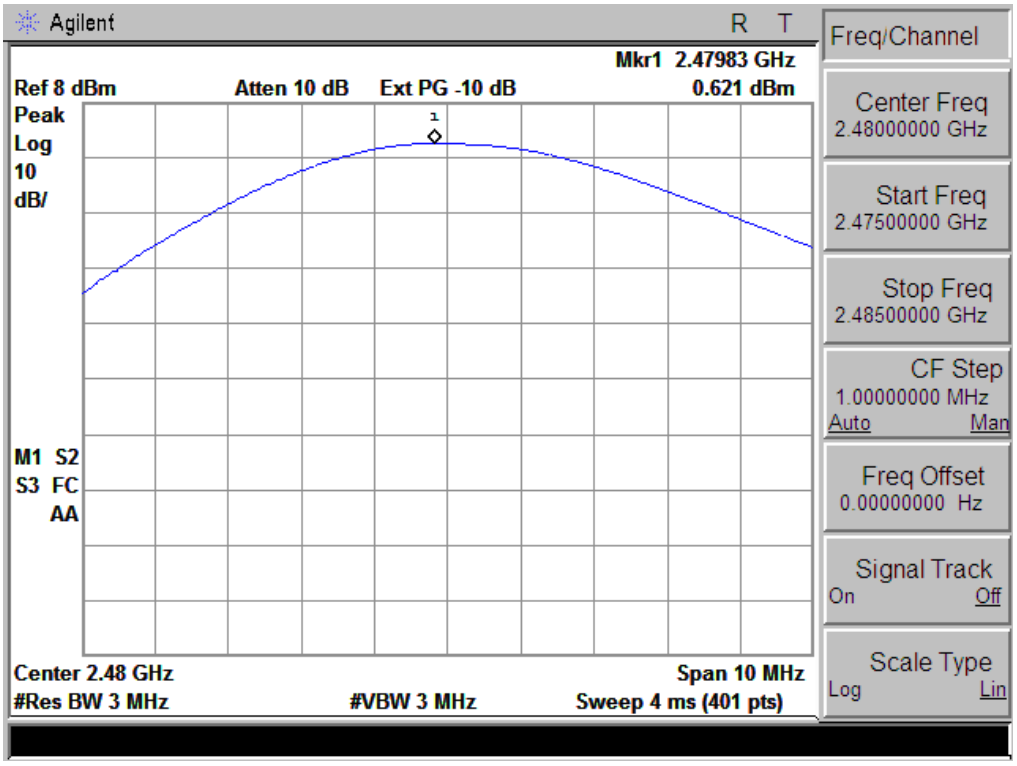
CH00 -2Mbps


Agilent
R T
Mkr1 2.40183 GHz
Ref 8 dBm
Atten 10 dB
Ext PG -10 dB
0.132 dBm
Peak
Log
10
dB/
M1 S2
S3 FC
AA
Center 2.402 GHz
#Res BW 3 MHz
#VBW 3 MHz
Span 10 MHz
Sweep 4 ms (401 pts)
Freq/Channel
Center Freq
2.40200000 GHz
Start Freq
2.39700000 GHz
Stop Freq
2.40700000 GHz
CF Step
1.00000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Scale Type
Log
Lin

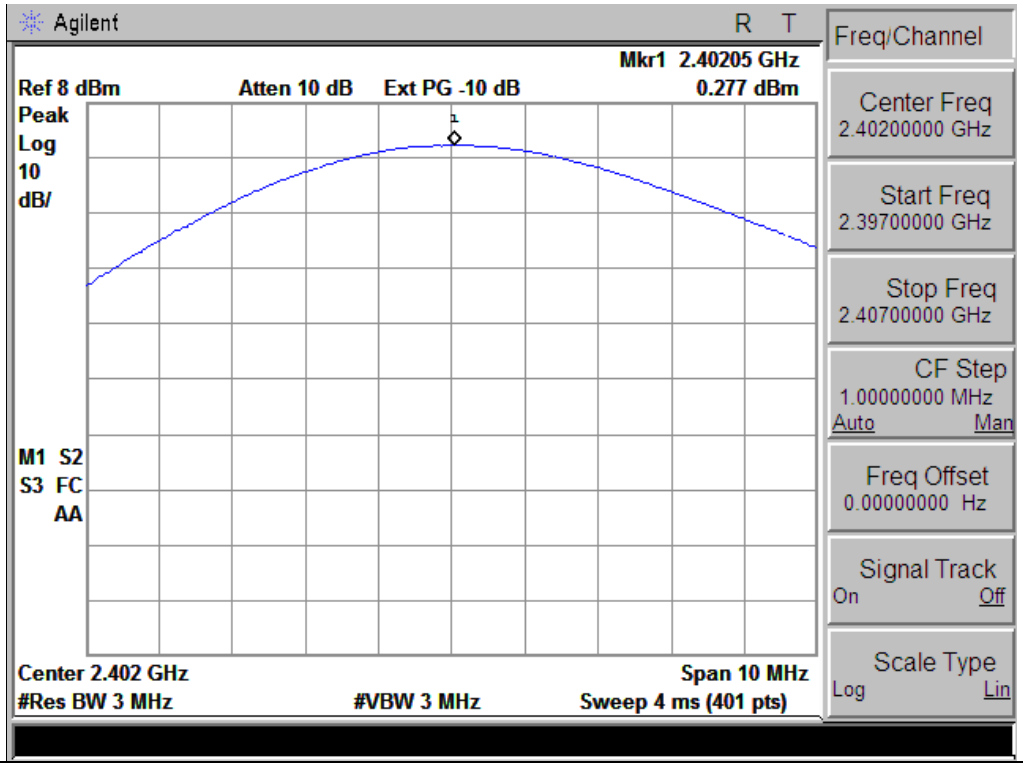
CH39 -2Mbps



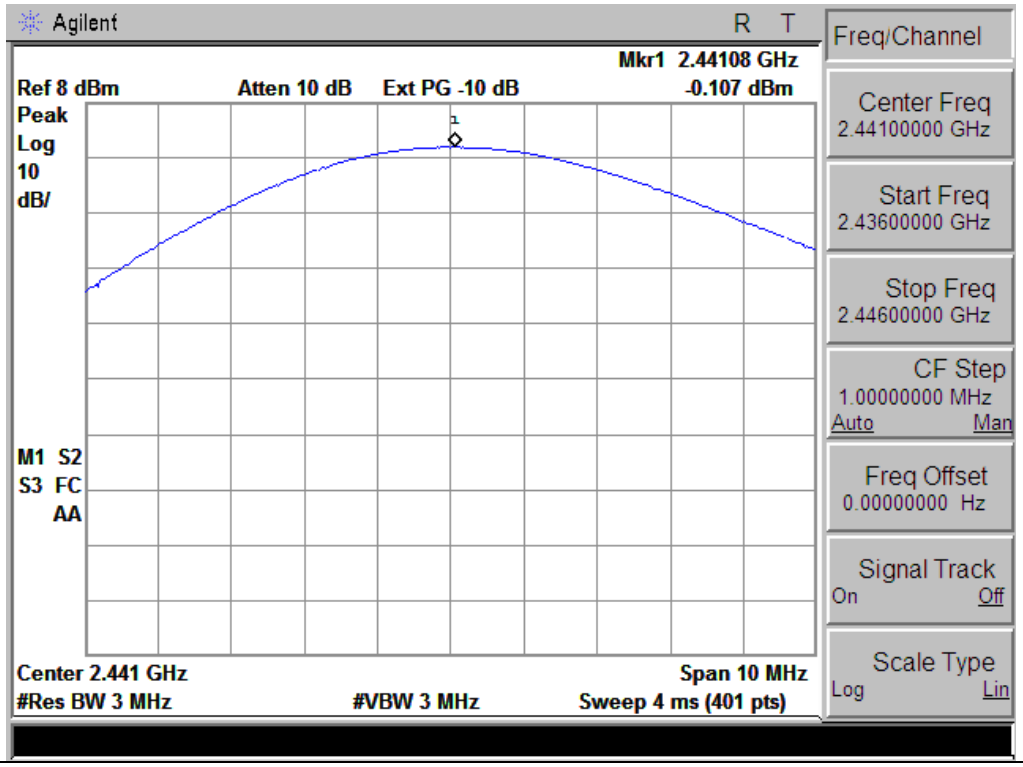
CH78 -2Mbps



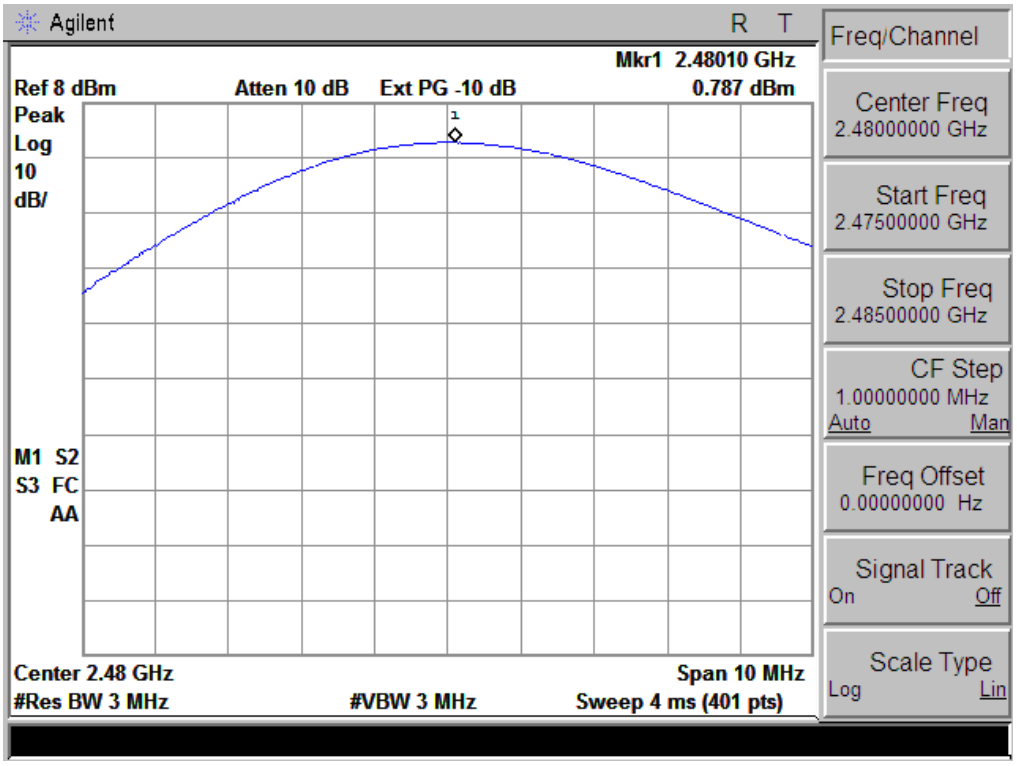
CH00 -3Mbps


Agilent
R T
Mkr1 2.40205 GHz
Ref 8 dBm
Atten 10 dB
Ext PG -10 dB
0.277 dBm
Peak
Log
10
dB/
M1 S2
S3 FC
AA
Center 2.402 GHz
#Res BW 3 MHz
#VBW 3 MHz
Span 10 MHz
Sweep 4 ms (401 pts)
Freq/Channel
Center Freq
2.40200000 GHz
Start Freq
2.39700000 GHz
Stop Freq
2.40700000 GHz
CF Step
1.00000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Scale Type
Log
Lin

CH39 -3Mbps



CH78 -3Mbps



9. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE

APPLICABLE STANDARD

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

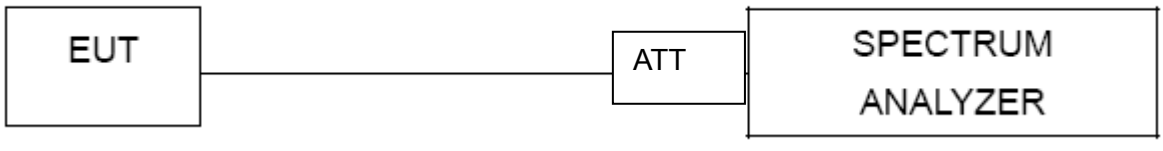
TEST PROCEDURE

a) Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
b) Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
c) Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
d) Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
e) Repeat above procedures until all measured frequencies were complete.

9.1 DEVIATION FROM STANDARD

No deviation.

9.2 TEST SETUP



9.3 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.

9.4 TEST RESULTS

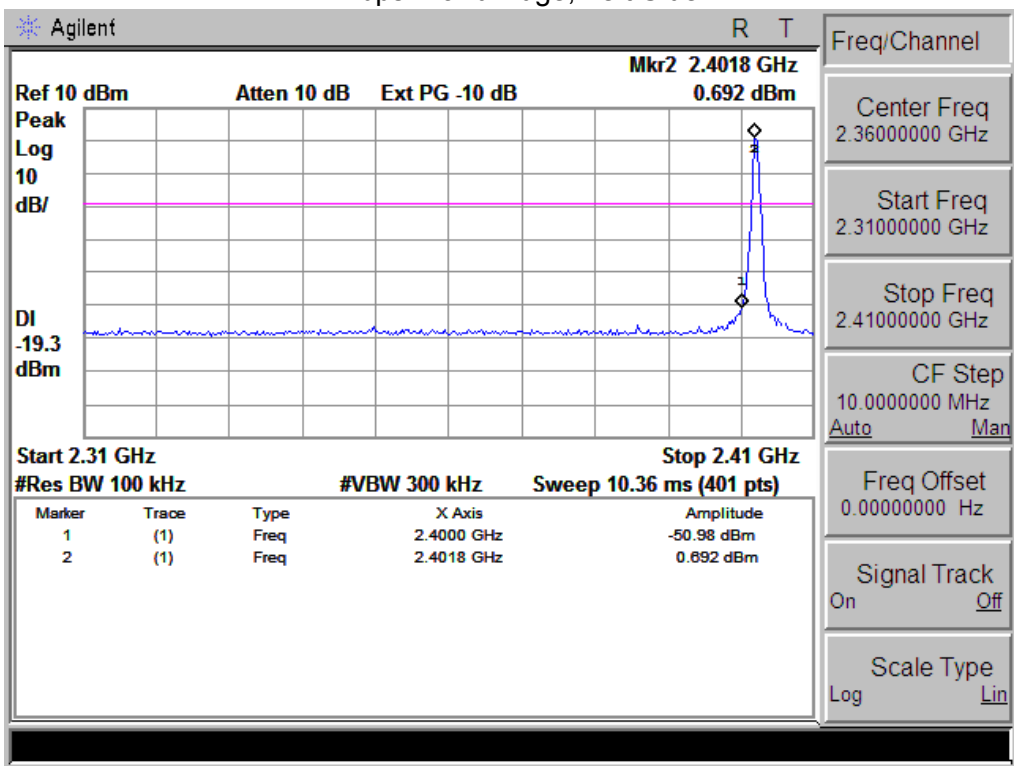
EUT：	Android Tablet PC	Model Name ：	CLE-DSM-7013
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V

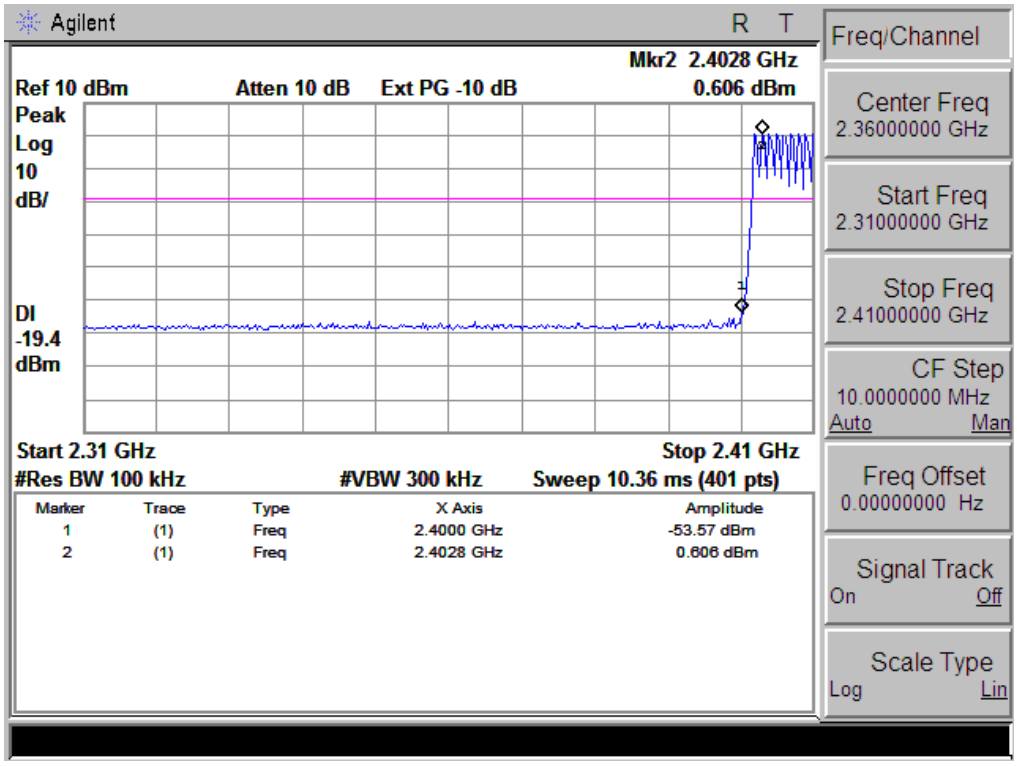
Frequency Band	Delta Peak to band emission(Non-FHSS) (dBc)	Delta Peak to band emission(FHSS) (dBc)	＞Limit (dBc)	Result
1Mbps				
Left-band	51.76	58.99	20	Pass
Right-band	54.17	59.37	20	Pass
2Mbps				
Left-band	47.92	56.38	20	Pass
Right-band	47.43	58.25	20	Pass
3Mbps				
Left-band	47.99	58.01	20	Pass
Right-band	53.66	58.01	20	Pass

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
1Mbps(Non-FHSS)							
2390	60.03	-13.06	46.97	74.00	-27.03	peak	Vertical
2390	56.80	-13.06	43.74	74.00	-30.26	peak	Horizontal
2483.5	59.30	-12.78	46.52	74.00	-27.48	peak	Vertical
2483.5	56.91	-12.78	44.13	74.00	-29.87	peak	Horizontal
2Mbps(Non-FHSS)							
2390	58.51	-13.06	45.45	74.00	-28.55	peak	Vertical
2390	55.25	-13.06	42.19	74.00	-31.81	peak	Horizontal
2483.5	59.32	-12.78	46.54	74.00	-27.46	peak	Vertical
2483.5	57.11	-12.78	44.33	74.00	-29.67	peak	Horizontal
3Mbps(Non-FHSS)							
2390	58.87	-13.06	45.81	74.00	-28.19	peak	Vertical
2390	56.34	-13.06	43.28	74.00	-30.72	peak	Horizontal
2483.5	58.15	-12.78	45.37	74.00	-28.63	peak	Vertical
2483.5	54.74	-12.78	41.96	74.00	-32.04	peak	Horizontal

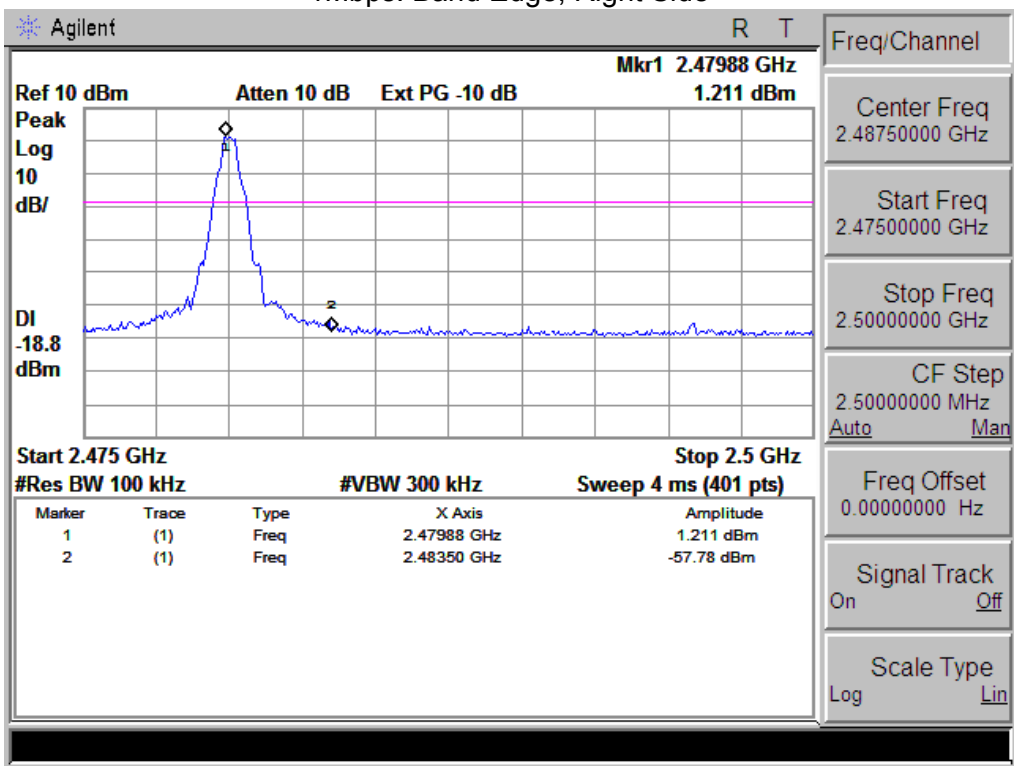
Note: Test method to see chapter 3.2 . PK value is lower than the Average value limit, average not record.

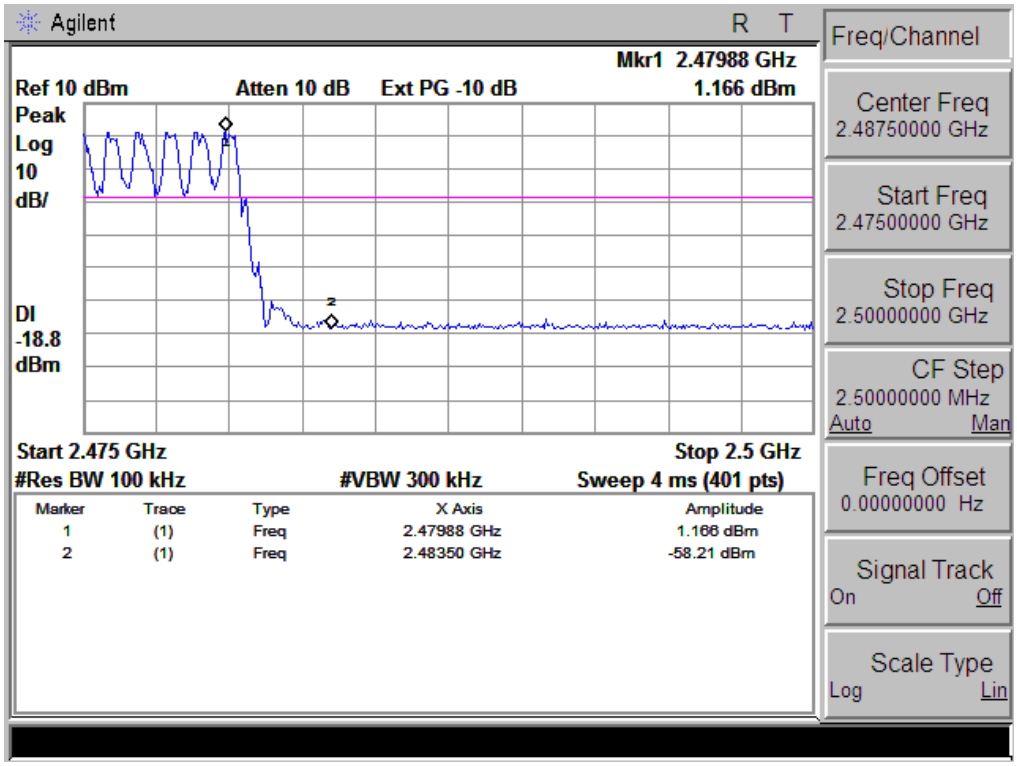
1Mbps: Band Edge, Left Side



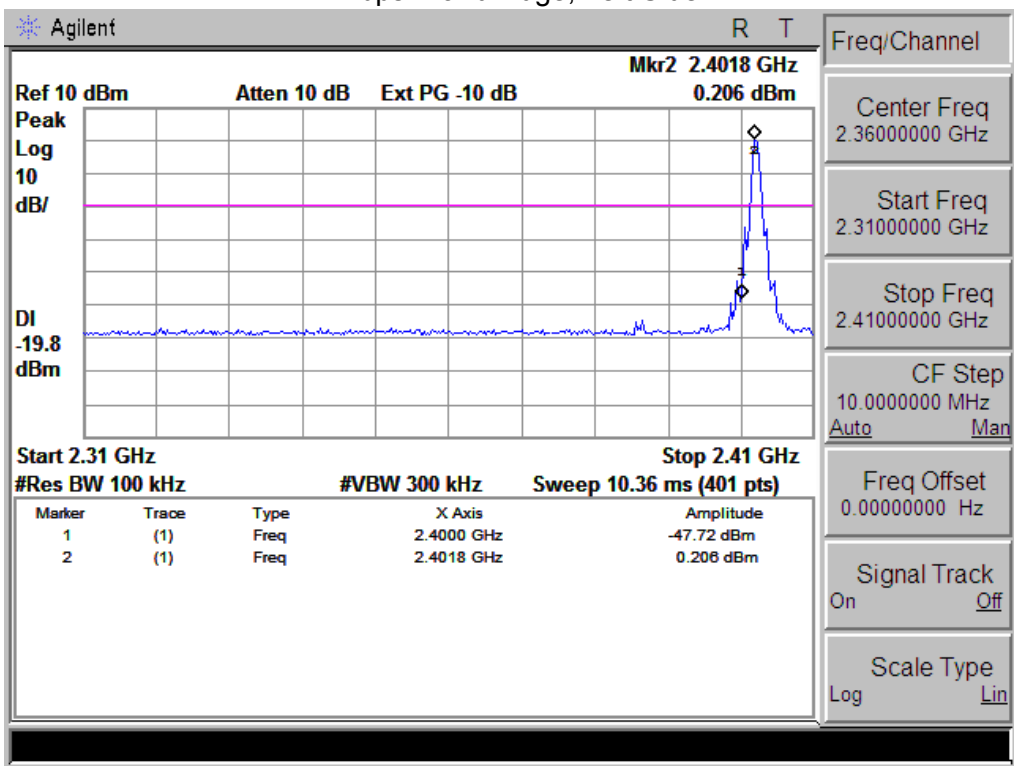


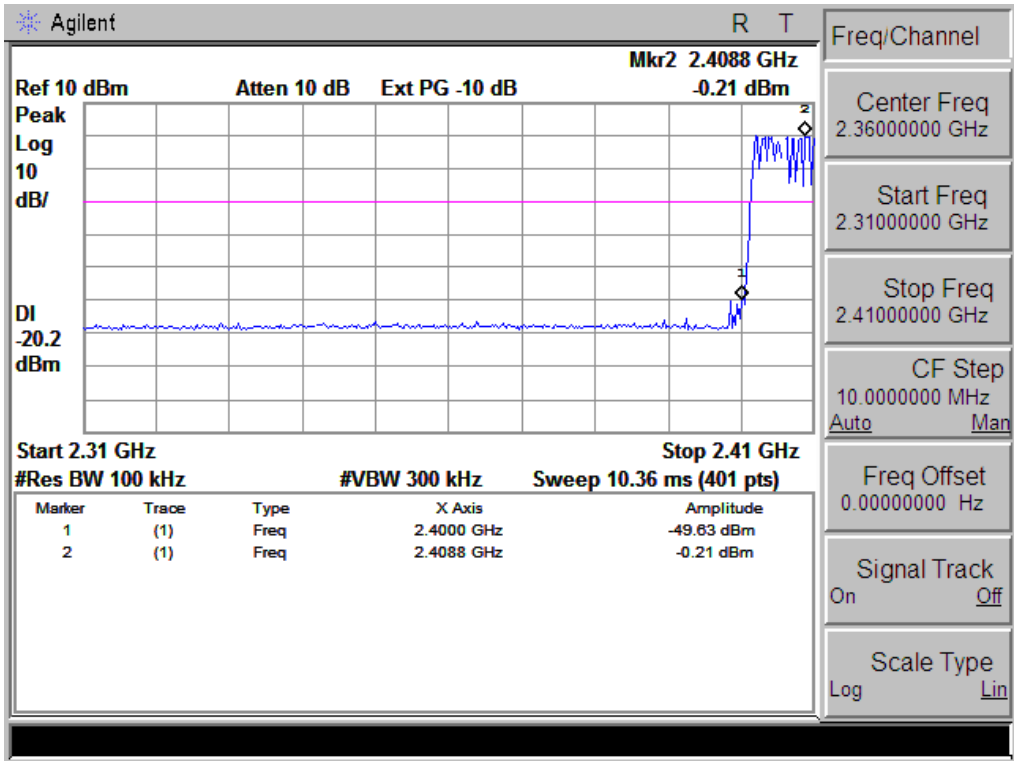
1Mbps: Band Edge, Right Side



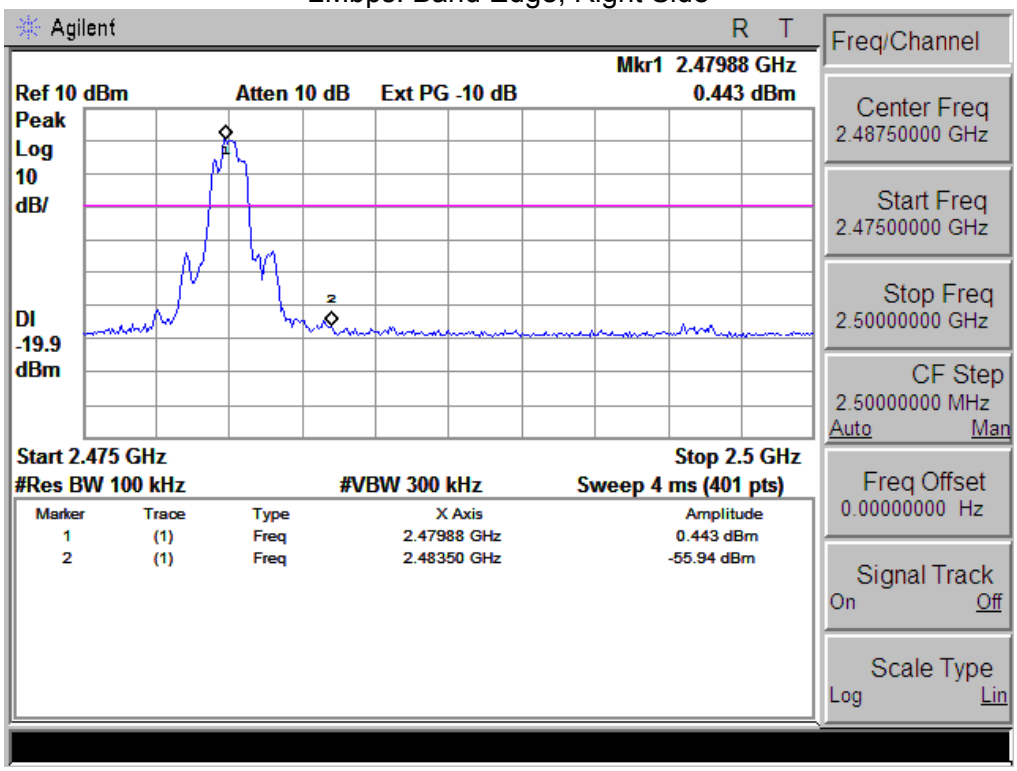


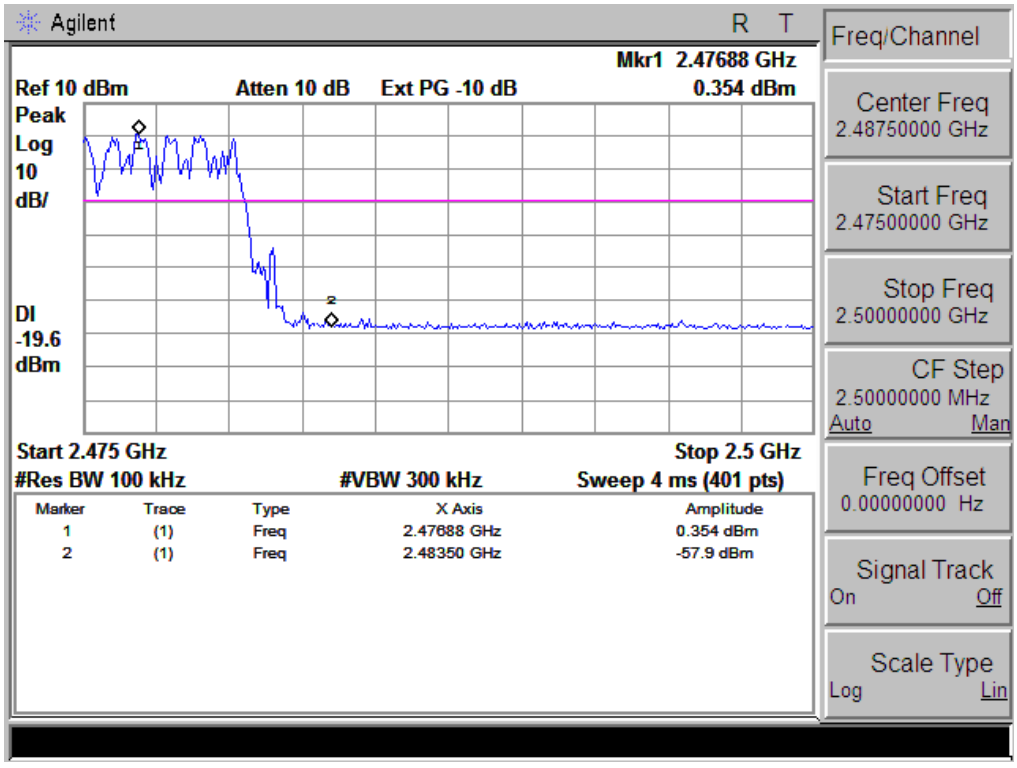
2Mbps: Band Edge, Left Side



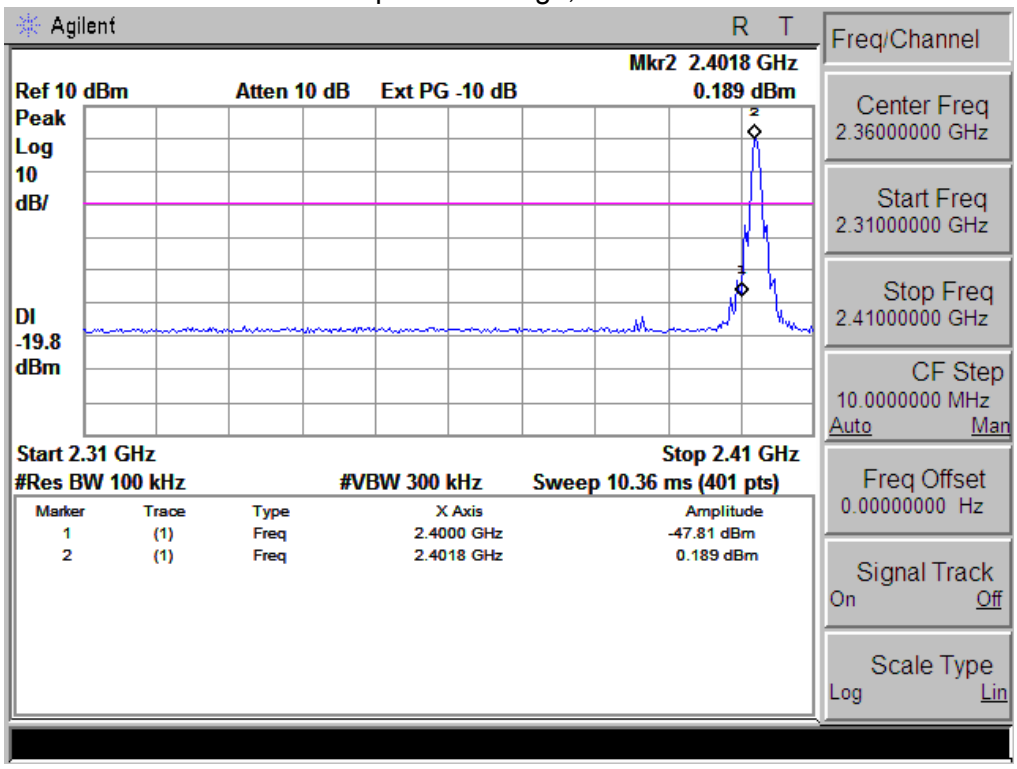


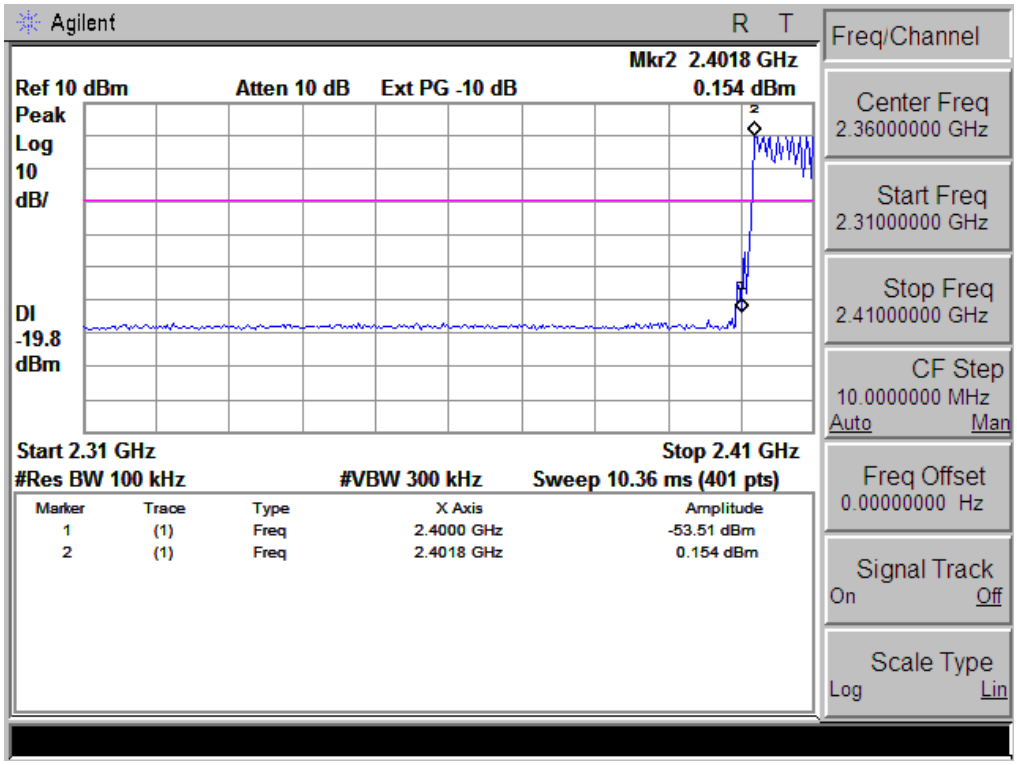
2Mbps: Band Edge, Right Side



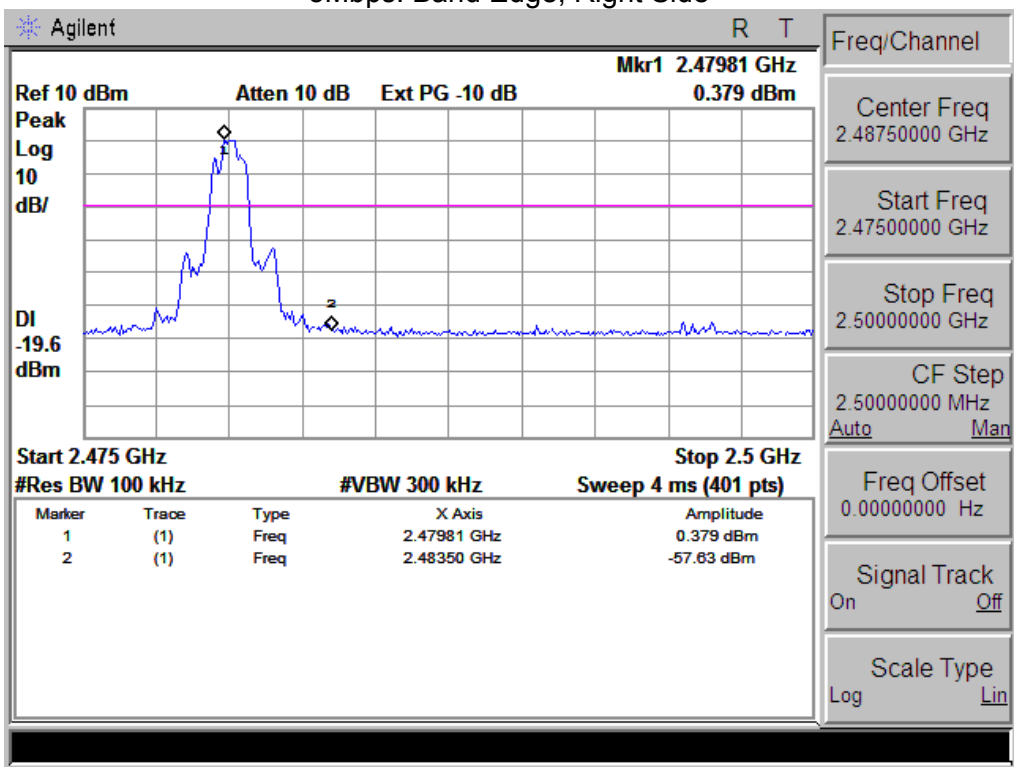


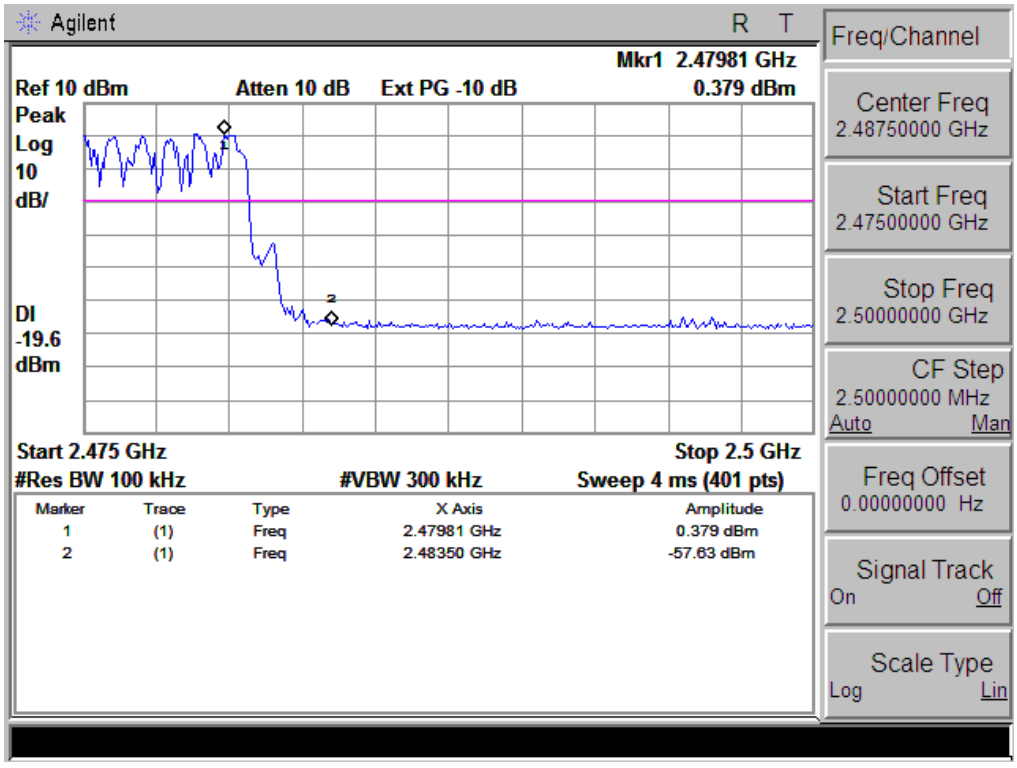
3Mbps: Band Edge, Left Side





3Mbps: Band Edge, Right Side





10. ANTENNA REQUIREMENT

10.1 STANDARD REQUIREMENT

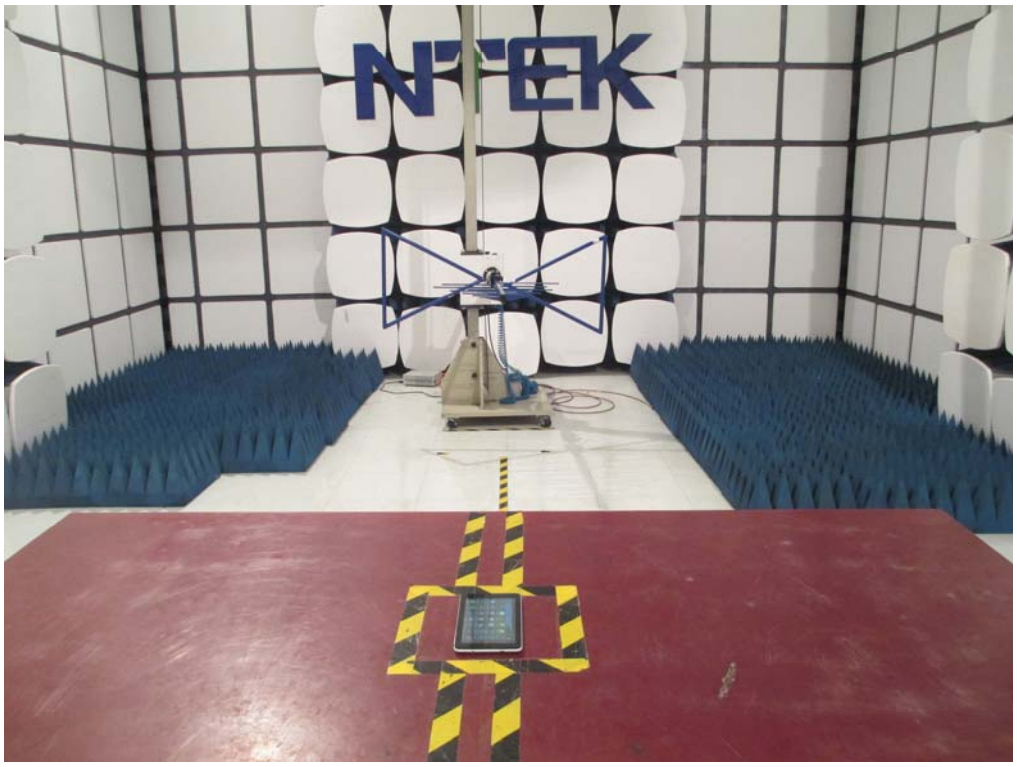
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

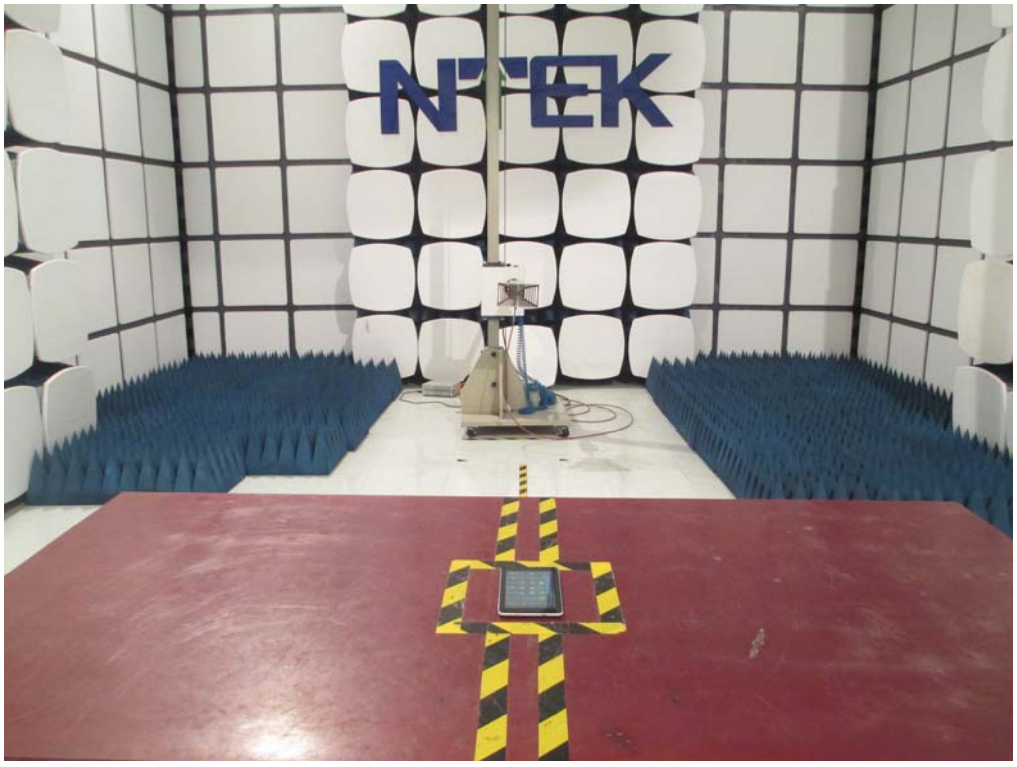
10.2 EUT ANTENNA

The EUT antenna is Integrated(PCB) antenna. It comply with the standard requirement.

11. EUT TEST PHOTO

Radiated Measurement Photos





CONDUCTED EMISSION Photo