FCC Test Report

Product Name ： SALUT

Model No. ： SALUT

FCC ID. ： WTU28658913-S1

Applicant ： OpenRoad Solutions,Inc

Address ： No.88-13 Shuili Road Hsinchu City 30059,Taiwan

Date of Receipt ： 2014/08/26

Issued Date ： 2014/11/10

Report No. ： 1490023R-RFUSP01V00-A

Report Version ： V1.0

TAF Testing Laboratory 3024

Test Report Certification

Issued Date : 2014/11/10
Report No. : 1490023R-RFUSP01V00-A

QuieTek

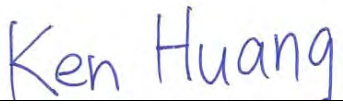
Product Name	:	SALUT
Applicant	:	OpenRoad Solutions,Inc
Address	:	No.88-13 Shuili Road Hsinchu City 30059,Taiwan
Manufacturer	:	OpenRoad Solutions,Inc
Model No.	:	SALUT
FCC ID.	:	WTU28658913-S1
EUT Voltage	:	Mode 1,2,3: DC 5V (Power by PC) Mode 4,5,6: DC 3.7V (Power by Battery)
Trade Name	:	BIKECOMM
Applicable Standard	:	FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2013
Test Result	:	Complied

The test results relate only to the samples tested.

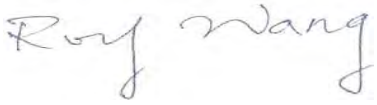
The test report shall not be reproduced except in full without the written approval of QuieTek Corporation.

Documented By : 

(Demi Chang / Engineering Adm. Specialist)

Reviewed By : 

(Ken Huang / Assistant Engineer)

Approved By : 

(Roy Wang / Director)

Laboratory Information

We, **QuieTek Corporation**, are an independent RF consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted (audited or listed) by the following related bodies in compliance with ISO 17025 specified testing scopes:

Taiwan R.O.C.	**:**	**TAF, Accreditation Number: 3024** **NCC, Certificate No: NCC-RCB-07**
USA	**:**	**FCC, Registration Number: 365520**
Canada	**:**	**IC, Submission No: 150981**

The related certificate for our laboratories about the test site and management system can be downloaded from QuieTek Corporation's Web Site:http://www.quietek.com/tw/ctg/cts/accreditations.htm
The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site : http://www.quietek.com/
If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

HsinChu Testing Laboratory:
No.75-2, 3rd Lin, Wangye Keng, Yonghxing Tsuen, Qionglin Shiang, Hsinchu County 307, Taiwan, R.O.C.
TEL:+886-3-592-8858 / FAX:+886-3-592-8859 E-Mail : service@quietek.com

LinKou Testing Laboratory:
No.5-22, Ruishukeng, Linkou Dist., New Taipei City 24451, Taiwan, R.O.C.
TEL : 886-2-8601-3788 / FAX : 886-2-8601-3789 E-Mail : service@quietek.com

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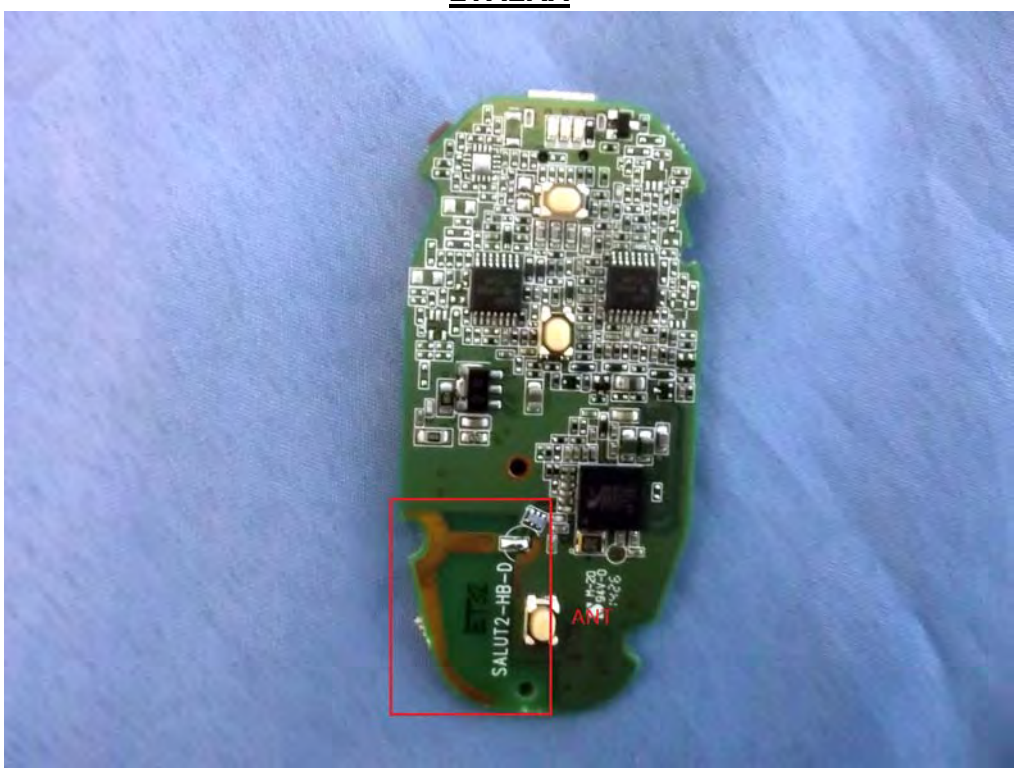
1. General Information

1.1. EUT Description

Product Name	SALUT
Trade Name	BIKECOMM
Model No.	SALUT
Frequency Range/Channel Number	2402~2480MHz / 79 Channels
Type of Modulation	GFSK，π/4-DQPSK，8DPSK
Antenna Type	Printed
Antenna Gain	2.3dBi

Component	
USB Cable	Shielded, 0.8m
Speaker	Non-Shielded, 0.6m
Twin Adhesive(Circle)	4 pcs
Twin Adhesive(Square)	2pcs
Chip	1pcs

1TX1RX



Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 00	2402 MHz	Channel 20	2422 MHz	Channel 40	2442 MHz	Channel 60	2462 MHz
Channel 01	2403 MHz	Channel 21	2423 MHz	Channel 41	2443 MHz	Channel 61	2463 MHz
Channel 02	2404 MHz	Channel 22	2424 MHz	Channel 42	2444 MHz	Channel 62	2464 MHz
Channel 03	2405 MHz	Channel 23	2425 MHz	Channel 43	2445 MHz	Channel 63	2465 MHz
Channel 04	2406 MHz	Channel 24	2426 MHz	Channel 44	2446 MHz	Channel 64	2466 MHz
Channel 05	2407 MHz	Channel 25	2427 MHz	Channel 45	2447 MHz	Channel 65	2467 MHz
Channel 06	2408 MHz	Channel 26	2428 MHz	Channel 46	2448 MHz	Channel 66	2468 MHz
Channel 07	2409 MHz	Channel 27	2429 MHz	Channel 47	2449 MHz	Channel 67	2469 MHz
Channel 08	2410 MHz	Channel 28	2430 MHz	Channel 48	2450 MHz	Channel 68	2470 MHz
Channel 09	2411 MHz	Channel 29	2431 MHz	Channel 49	2451 MHz	Channel 69	2471 MHz
Channel 10	2412 MHz	Channel 30	2432 MHz	Channel 50	2452 MHz	Channel 70	2472 MHz
Channel 11	2413 MHz	Channel 31	2433 MHz	Channel 51	2453 MHz	Channel 71	2473 MHz
Channel 12	2414 MHz	Channel 32	2434 MHz	Channel 52	2454 MHz	Channel 72	2474 MHz
Channel 13	2415 MHz	Channel 33	2435 MHz	Channel 53	2455 MHz	Channel 73	2475 MHz
Channel 14	2416 MHz	Channel 34	2436 MHz	Channel 54	2456 MHz	Channel 74	2476 MHz
Channel 15	2417 MHz	Channel 35	2437 MHz	Channel 55	2457 MHz	Channel 75	2477 MHz
Channel 16	2418 MHz	Channel 36	2438 MHz	Channel 56	2458 MHz	Channel 76	2478 MHz
Channel 17	2419 MHz	Channel 37	2439 MHz	Channel 57	2459 MHz	Channel 77	2479 MHz
Channel 18	2420 MHz	Channel 38	2440 MHz	Channel 58	2460 MHz	Channel 78	2480 MHz
Channel 19	2421 MHz	Channel 39	2441 MHz	Channel 59	2461 MHz		

Note:

1. This device is a SALUT including a 2.4GHz receiving function, and transmitting function.
2. These test results on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.247 for spread spectrum devices.
3. Regards to the frequency band operation; the lowest、middle and highest frequency of channel were selected to perform the test, and then shown on this report.
4. This device is a BT device in accordance with Part 15 regulations. The function receiving was measured and made a test report that the report number is 1490023R-RFUSP01V00 .

1.2. Test Mode

QuieTek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Pre-Test Mode	
TX	Mode 1: Transmit (GFSK)-Power by PC Mode 2: Transmit (π/4DQPSK)-Power by PC Mode 3: Transmit (8DQPSK)-Power by PC Mode 4: Transmit (GFSK)-Power by Battery Mode 5: Transmit (π/4DQPSK)-Power by Battery Mode 6: Transmit (8DQPSK)-Power by Battery
Final Test Mode	
TX	Mode 1: Transmit (GFSK)-Power by PC Mode 2: Transmit (π/4DQPSK)-Power by PC Mode 3: Transmit (8DQPSK)-Power by PC Mode 4: Transmit (GFSK)-Power by Battery Mode 5: Transmit (π/4DQPSK)-Power by Battery Mode 6: Transmit (8DQPSK)-Power by Battery

Emission	Mode 1	Mode 2	Mode 3	Mode 4	Mode 5	Mode 6
Conducted Emission	Yes	No	No	No	No	No
Peak Power Output	Yes	Yes	Yes	No	No	No
Radiated Emission	Yes	Yes	Yes	Yes	Yes	Yes
RF antenna conducted test	Yes	Yes	Yes	No	No	No
Band Edge	Yes	Yes	Yes	No	No	No
Number of hopping Frequency	Yes	No	No	No	No	No
Carrier Frequency Separation	Yes	Yes	Yes	No	No	No
Occupied Bandwidth	Yes	Yes	Yes	No	No	No
Dwell Time	Yes	Yes	Yes	No	No	No

1.3. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

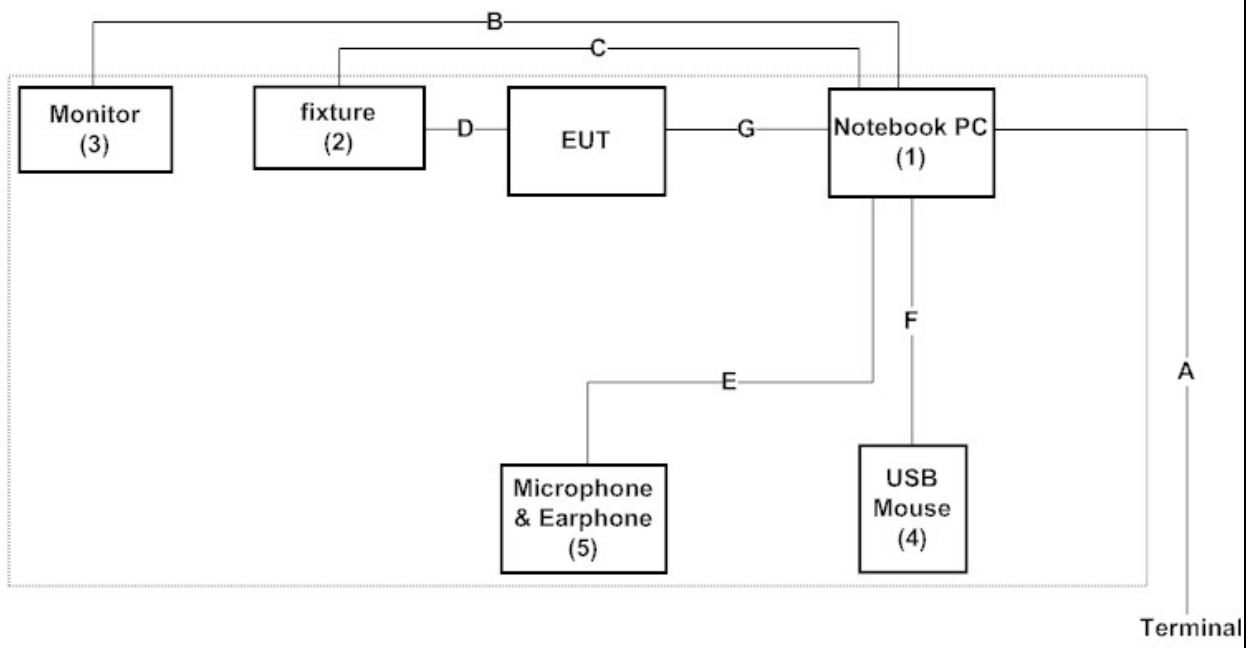
Test Mode		Mode 1: Transmit (GFSK)-Power by PC Mode 2: Transmit (π/4DQPSK)-Power by PC Mode 3: Transmit (8DQPSK)-Power by PC				
Product		Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1	Notebook PC	ACER	PAV70	LUSEW0D0371105 FE221601	DoC	Non-Shielded, 2.5m one ferrite core bonded
2	Fixture	Holux	N/A	N/A	DoC	--
3	Monitor	DELL	U2410f	082WXD-72872-16 R-0W2L	DoC	Non-Shielded, 1.8m
4	USB Mouse	Logitech	M-UV83	LZE35005917		--
5	Microphone & Earphone	Fujiei	SBZ-38	N/A	DoC	--

Test Mode		Mode 4: Transmit (GFSK)-Power by Battery Mode 5: Transmit (π/4DQPSK)-Power by Battery Mode 6: Transmit (8DQPSK)-Power by Battery				
Product		Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1	Fixture	Holux	N/A	N/A	DoC	--
2	Notebook PC	ACER	PAV70	LUSEW0D0371105 FE221601	DoC	Non-Shielded, 2.5m one ferrite core bonded

1.4. Configuration of tested System

Test Mode	Mode 1: Transmit (GFSK)-Power by PC Mode 2: Transmit (π/4DQPSK)-Power by PC Mode 3: Transmit (8DQPSK)-Power by PC

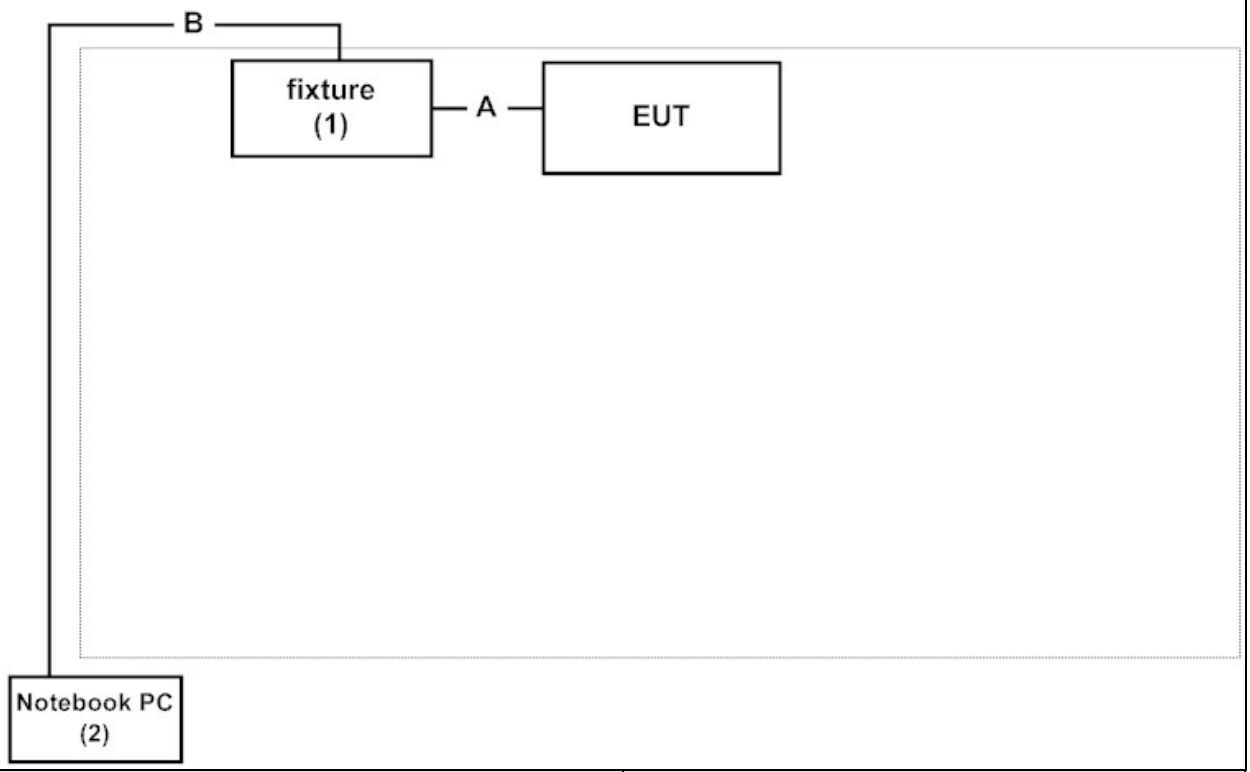
Connection Diagram



Signal Cable Type		Signal cable Description
A	LAN Cable	Non-Shielded, 3m
B	VGA Cable	Shielded, 1.8m, two ferrite cores bonded
C	USB Cable	Shielded, 1.5m, one ferrite core bonded
D	Single Cable	Non-Shielded, 0.6m
E	Microphone & Earphone Cable	Non-Shielded, 1.2m
F	USB Mouse Cable	Shielded, 1.8m
G	USB Cable	Shielded, 0.8m

Test Mode	Mode 4: Transmit (GFSK)-Power by Battery Mode 5: Transmit (π/4DQPSK)-Power by Battery Mode 6: Transmit (8DQPSK)-Power by Battery

Connection Diagram



Signal Cable Type		Signal cable Description
A	Single Cable	Non-Shielded, 0.6m
B	USB Cable	Shielded, 1.5m, one ferrite core bonded

1.5. EUT Exercise Software

1	Setup the EUT as shown in Section 1.4
2	Execute the “CSR Blue Suite3” which is installed on the Notebook.
3	Configure the test mode, the test channel to start the continuous transmitter.
4	Press “Start TX to start the continuous transmitting
5	Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required (IEC 68-1)	Actual
Temperature (°C)	FCC PART 15 C 15.207 Conducted Emission (FHSS)	15 - 35	23
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Peak Power Output (FHSS)	15 - 35	23
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Radiated Emission (FHSS)	15 - 35	25
Humidity (%RH)		25 - 75	54
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Band Edge (FHSS)	15 - 35	25
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Number of hopping Frequency (FHSS)	15 - 35	23
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Carrier Frequency Separation (FHSS)	15 - 35	23
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Occupied Bandwidth (FHSS)	15 - 35	24
Humidity (%RH)		25 - 75	48
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 RF Antenna Conducted test (FHSS)	15 - 35	24
Humidity (%RH)		25 - 75	48
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Dwell Time (FHSS)	15 - 35	23
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000

2. Conducted Emission

2.1. Test Equipment

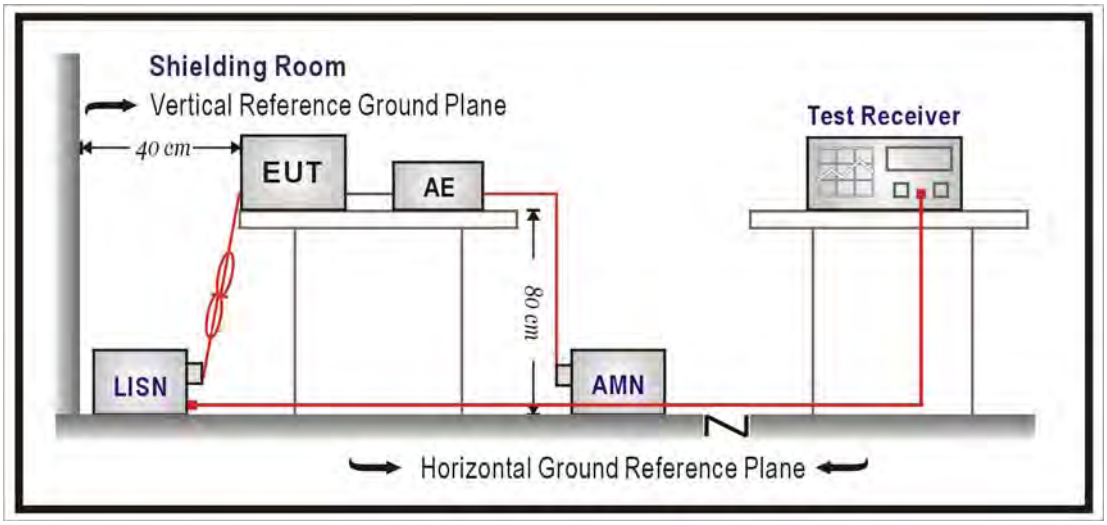
The following test equipments are used during the test:

Conducted Emission / SR2

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Artificial Mains Network	R&S	ENV4200	848411/010	2015/02/09
LISN	R&S	ENV216	100092	2015/08/24
Test Receiver	R&S	ESCS 30	825442/014	2015/07/13

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 Limits (dBuV)		
Frequency MHz	QP	AV
0.15 - 0.50	66-56	56-46
0.50 - 5.0	56	46
5.0 - 30	60	50

Remarks: In the above table, the tighter limit applies at the band edges.

2.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs.)
Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.
Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

2.5. Test Specification

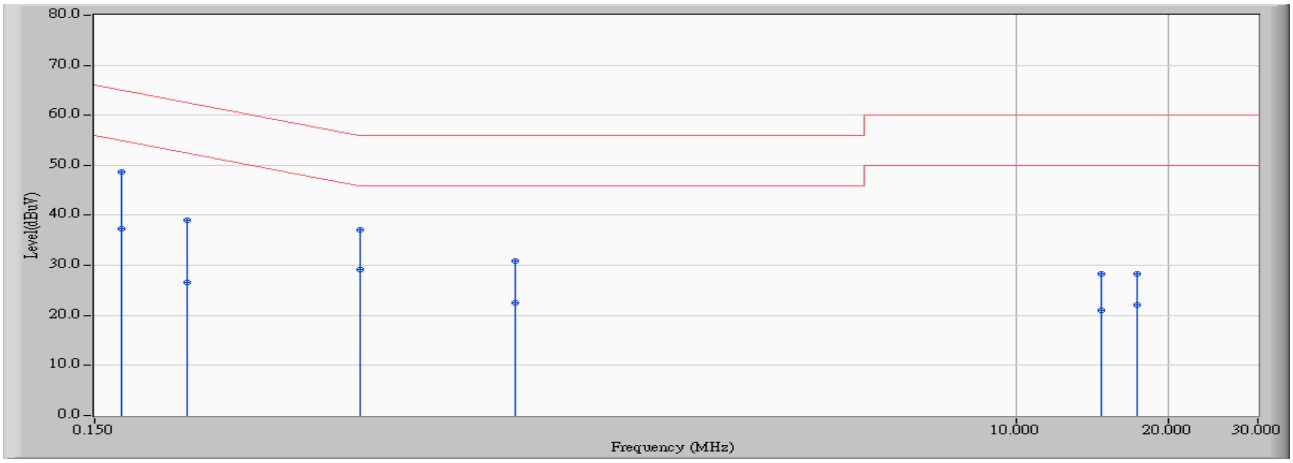
According to FCC Part 15 Subpart C Paragraph 15.207: 2013

2.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.7. Test Result

Site : SR2	**Time : 2014/10/30 - 13:51**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR2_LISN(16A)-4_0825 - Line1	**Power : AC120V/60Hz**
EUT : SAULT	**Note : Mode 1: Transmit (GFSK)-Power by PC_2441MHz**

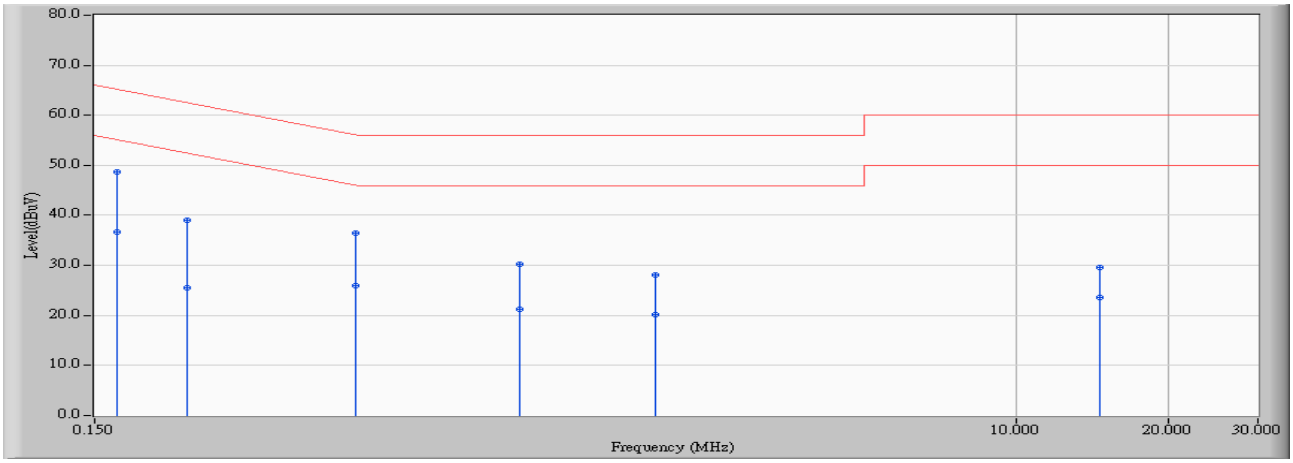


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.170	9.760	38.910	48.670	-16.313	64.983	QUASIPEAK
2		0.170	9.760	27.580	37.340	-17.643	54.983	AVERAGE
3		0.228	9.759	29.200	38.959	-23.559	62.518	QUASIPEAK
4		0.228	9.759	16.810	26.569	-25.949	52.518	AVERAGE
5		0.502	9.753	27.310	37.063	-18.937	56.000	QUASIPEAK
6		0.502	9.753	19.450	29.203	-16.797	46.000	AVERAGE
7		1.017	9.810	21.000	30.810	-25.190	56.000	QUASIPEAK
8		1.017	9.810	12.620	22.430	-23.570	46.000	AVERAGE
9		14.673	10.180	18.130	28.309	-31.691	60.000	QUASIPEAK
10		14.673	10.180	10.910	21.089	-28.911	50.000	AVERAGE
11		17.306	10.247	18.130	28.377	-31.623	60.000	QUASIPEAK
12		17.306	10.247	11.740	21.987	-28.013	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : SR2	**Time : 2014/10/30 - 13:56**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR2_LISN(16A)-4_0825 - Line2	**Power : AC120V/60Hz**
EUT : SAULT	**Note : Mode 1: Transmit (GFSK)-Power by PC_2441MHz**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.166	9.810	38.870	48.680	-16.497	65.177	QUASIPEAK
2		0.166	9.810	26.850	36.660	-18.517	55.177	AVERAGE
3		0.228	9.811	29.300	39.111	-23.406	62.518	QUASIPEAK
4		0.228	9.811	15.750	25.561	-26.956	52.518	AVERAGE
5		0.494	9.820	26.620	36.440	-19.664	56.104	QUASIPEAK
6		0.494	9.820	16.150	25.970	-20.134	46.104	AVERAGE
7		1.037	9.870	20.270	30.140	-25.860	56.000	QUASIPEAK
8		1.037	9.870	11.450	21.320	-24.680	46.000	AVERAGE
9		1.935	9.879	18.300	28.179	-27.821	56.000	QUASIPEAK
10		1.935	9.879	10.310	20.189	-25.811	46.000	AVERAGE
11		14.646	10.315	19.290	29.605	-30.395	60.000	QUASIPEAK
12		14.646	10.315	13.170	23.485	-26.515	50.000	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

3. Peak Power Output

3.1. Test Equipment

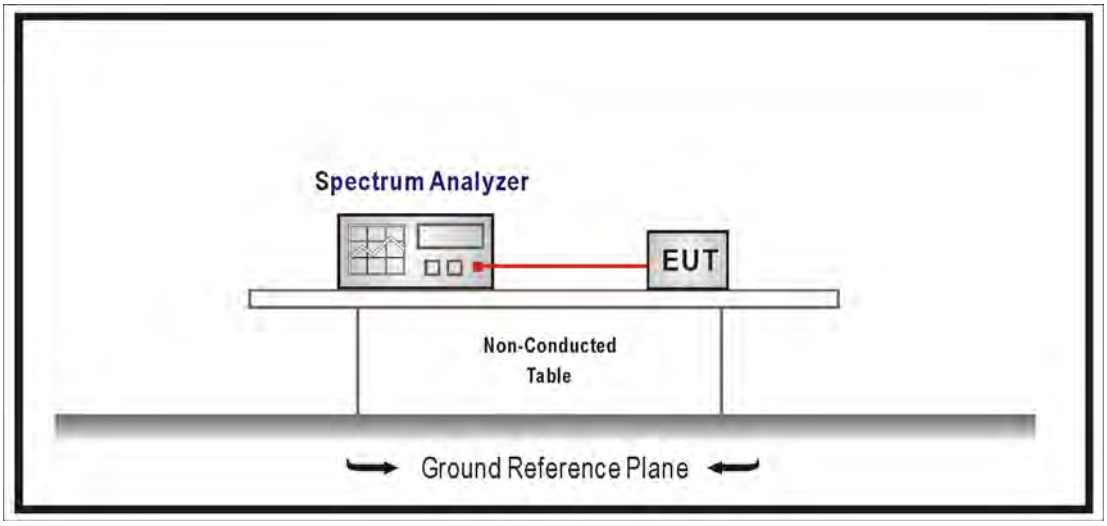
The following test equipment is used during the test:

Peak Power Output / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2015/07/14

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

3.2. Test Setup



3.3. Test procedures

The EUT was setup according to ANSI C63.10:2013 and tested according to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements

3.4. Limits

For frequency hopping systems operating in the 902-928 MHz band: 1 Watt for systems employing at least 50 hopping channels; and, 0.25 Watts for systems employing less than 50 hopping channels.

For frequency hopping systems in the 2400-2483.5 MHz band employing at least 75 hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1Watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 Watt.

3.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2013

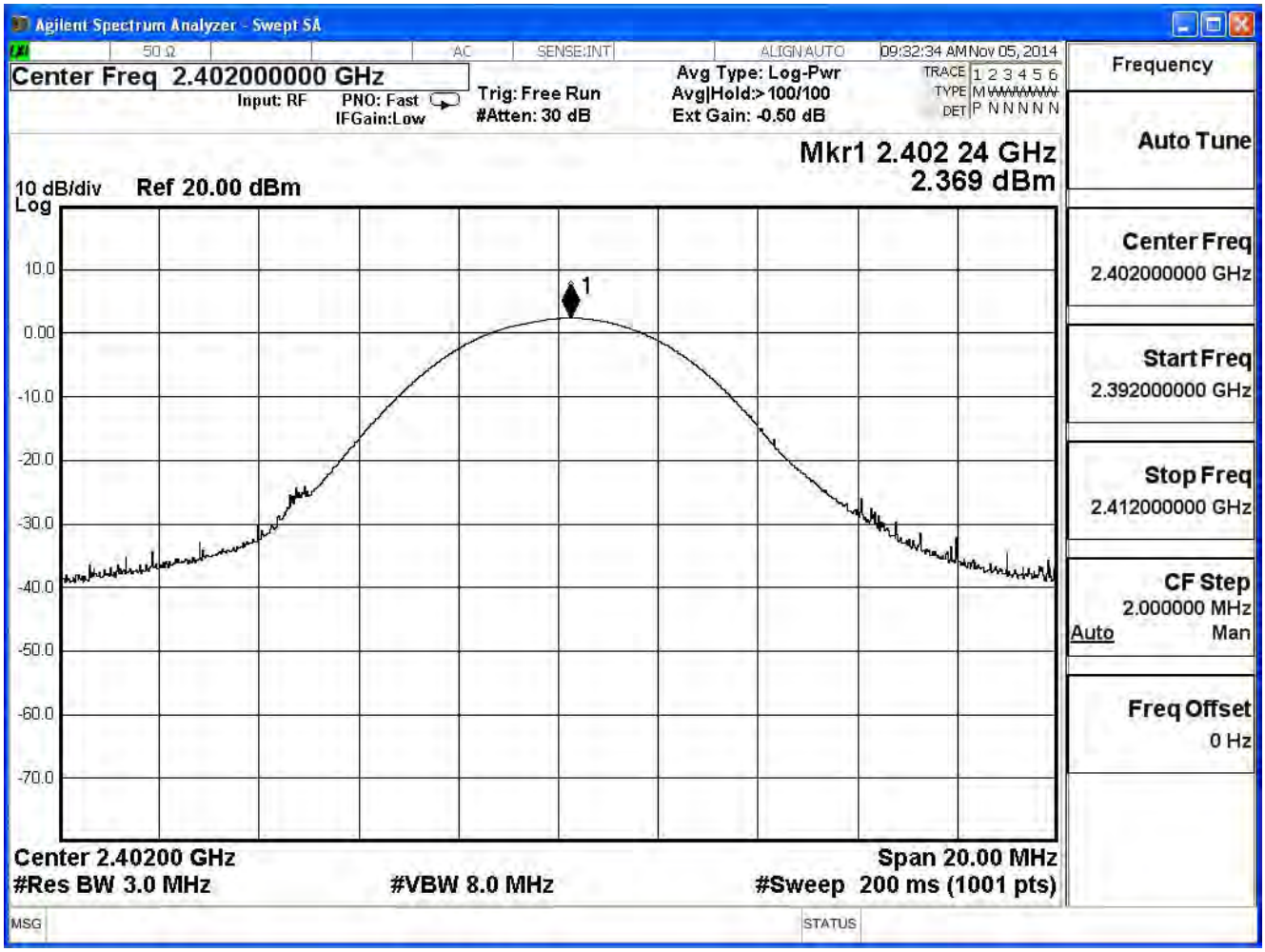
3.6. Test Result

Product	SALUT		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit (GFSK)-Power by PC		
Date of Test	2014/11/04	Test Site	SR7

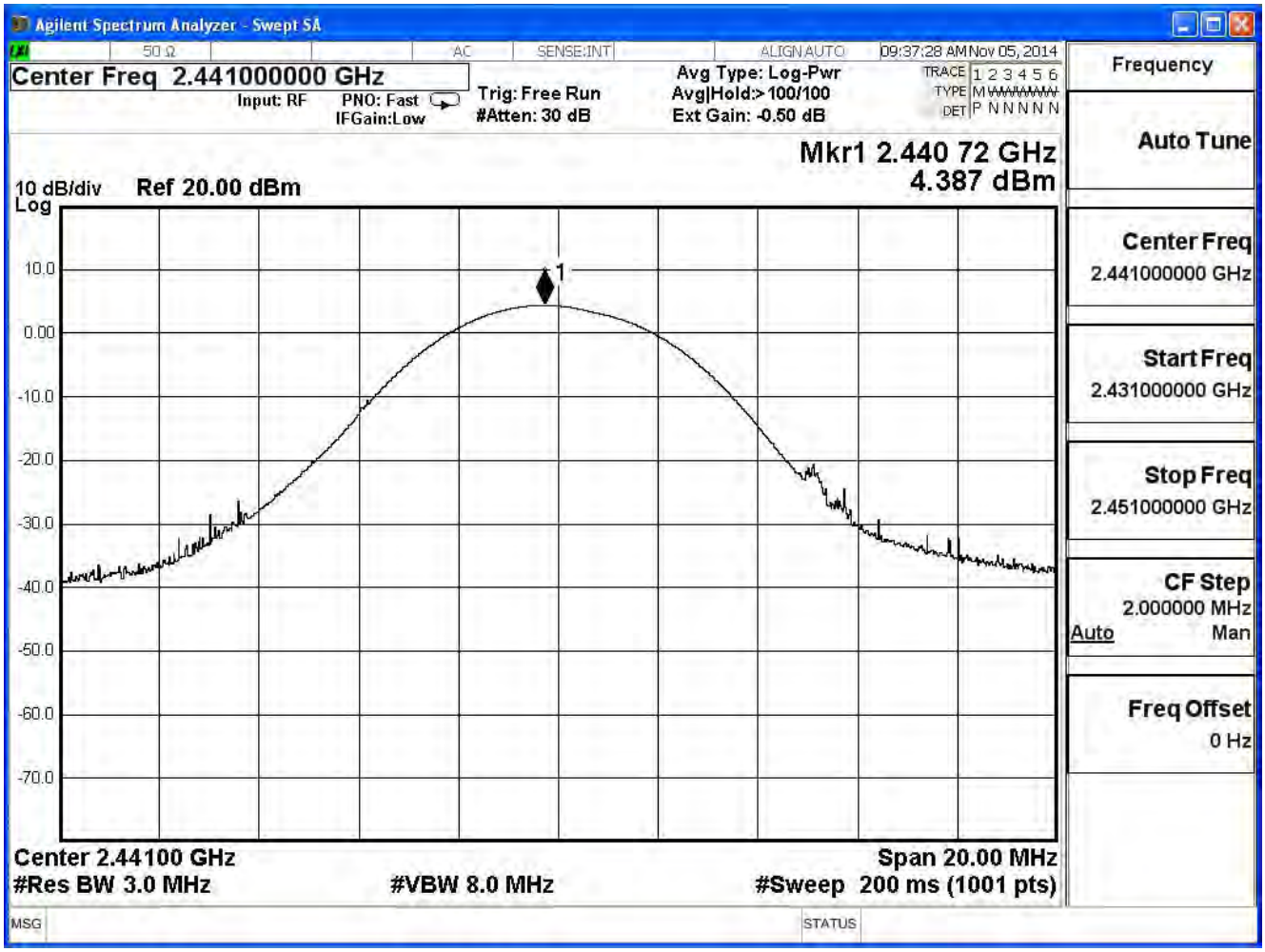
GFSK

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
00	2402	2.369	30	Pass
39	2441	4.387	30	Pass
78	2480	4.775	30	Pass

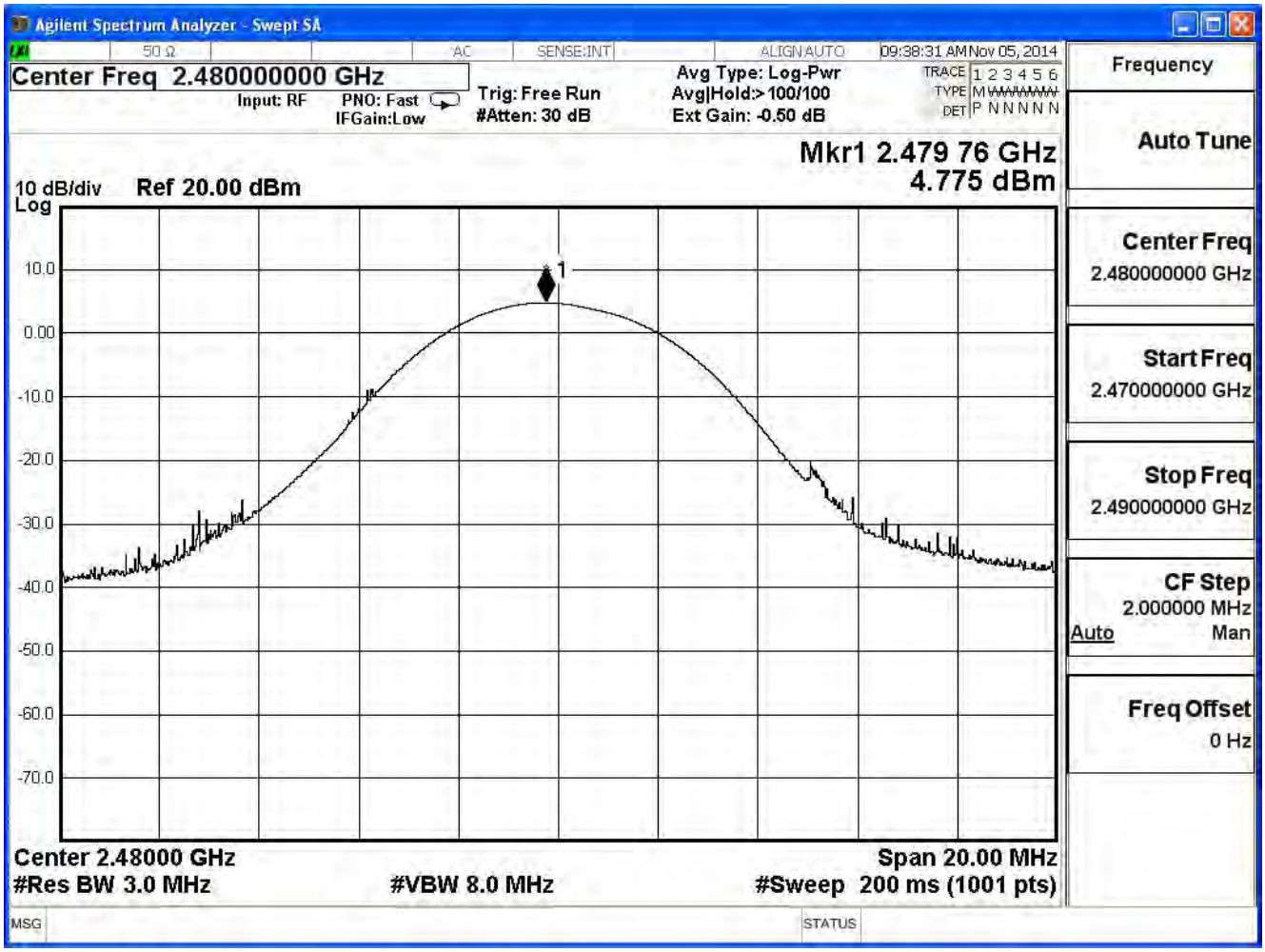
Channel 00



Channel 39


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
09:37:28 AM Nov 05, 2014
Center Freq 2.441000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -0.50 dB
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Mkr1 2.440 72 GHz
4.387 dBm
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
1
Center 2.44100 GHz
#Res BW 3.0 MHz
#VBW 8.0 MHz
Span 20.00 MHz
#Sweep 200 ms (1001 pts)
Frequency
Auto Tune
Center Freq
2.441000000 GHz
Start Freq
2.431000000 GHz
Stop Freq
2.451000000 GHz
CF Step
2.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Channel 78

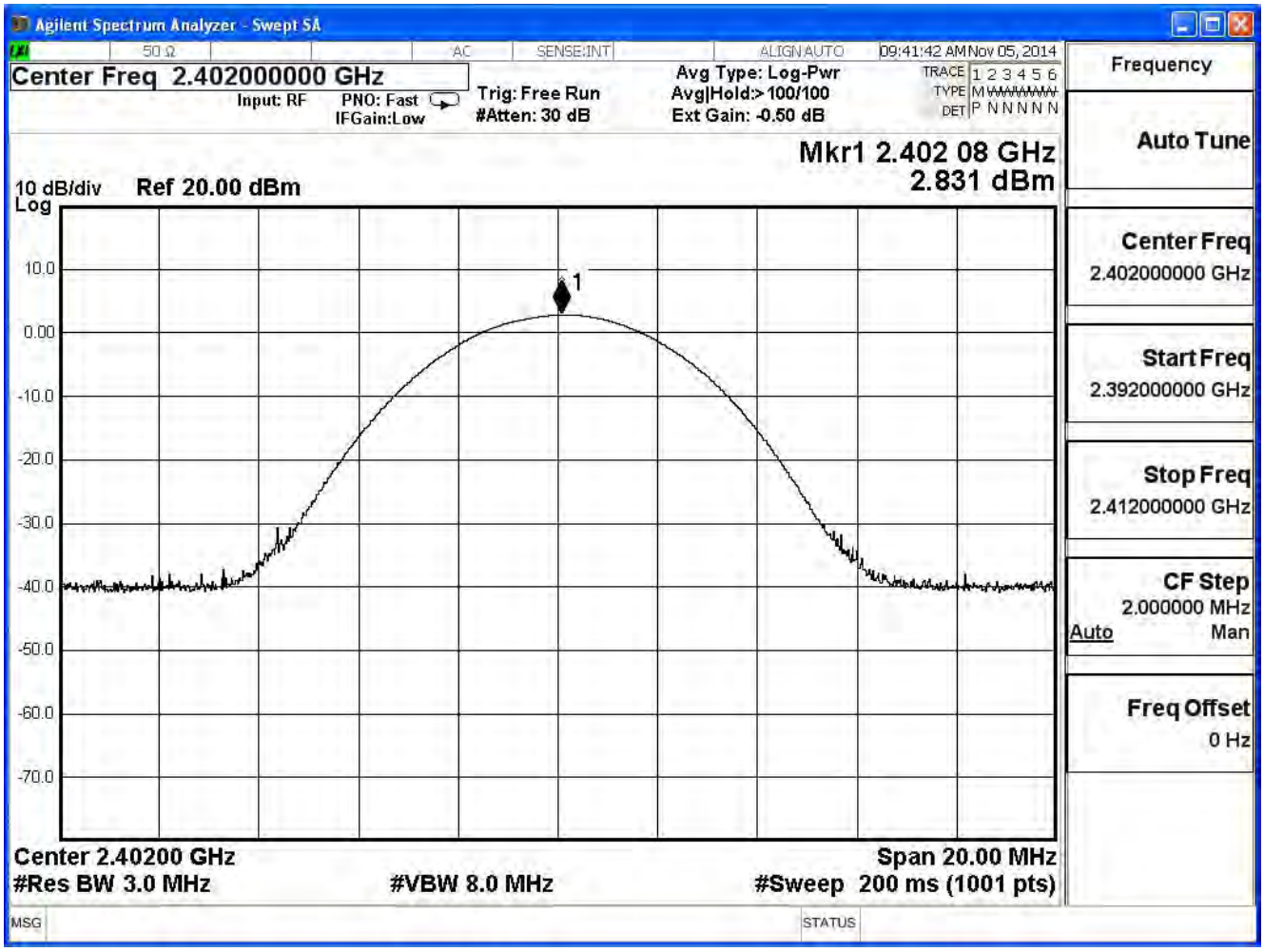

Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
09:38:31 AM Nov 05, 2014
Center Freq 2.480000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -0.50 dB
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Mkr1 2.479 76 GHz
4.775 dBm
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
1
Center 2.48000 GHz
#Res BW 3.0 MHz
#VBW 8.0 MHz
Span 20.00 MHz
#Sweep 200 ms (1001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
2.480000000 GHz
Start Freq
2.470000000 GHz
Stop Freq
2.490000000 GHz
CF Step
2.000000 MHz
Auto
Man
Freq Offset
0 Hz

Product	SALUT		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit (π/4DQPSK)-Power by PC		
Date of Test	2014/11/04	Test Site	SR7

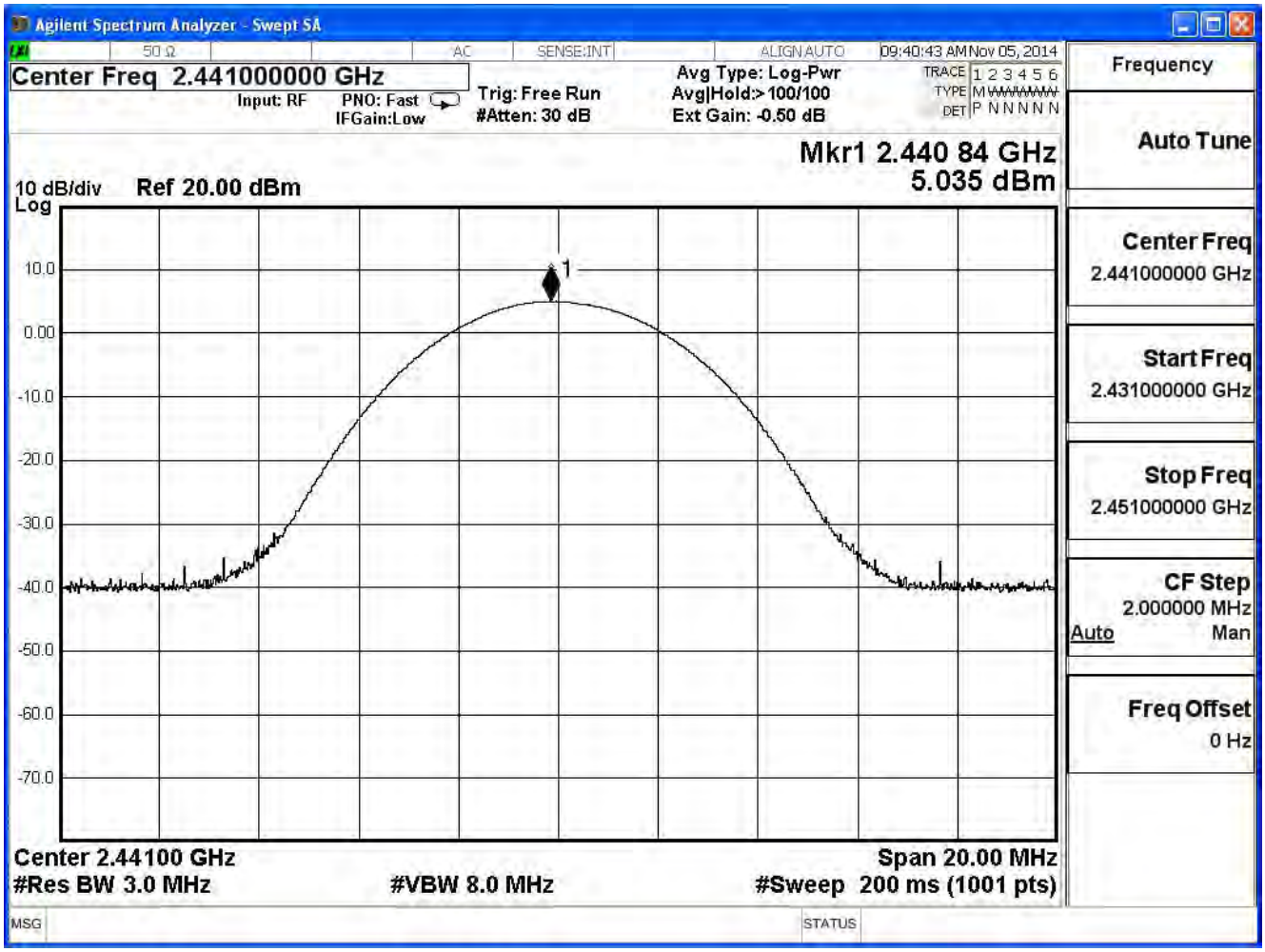
π /4DQPSK

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
00	2402	2.831	30	Pass
39	2441	5.035	30	Pass
78	2480	5.392	30	Pass

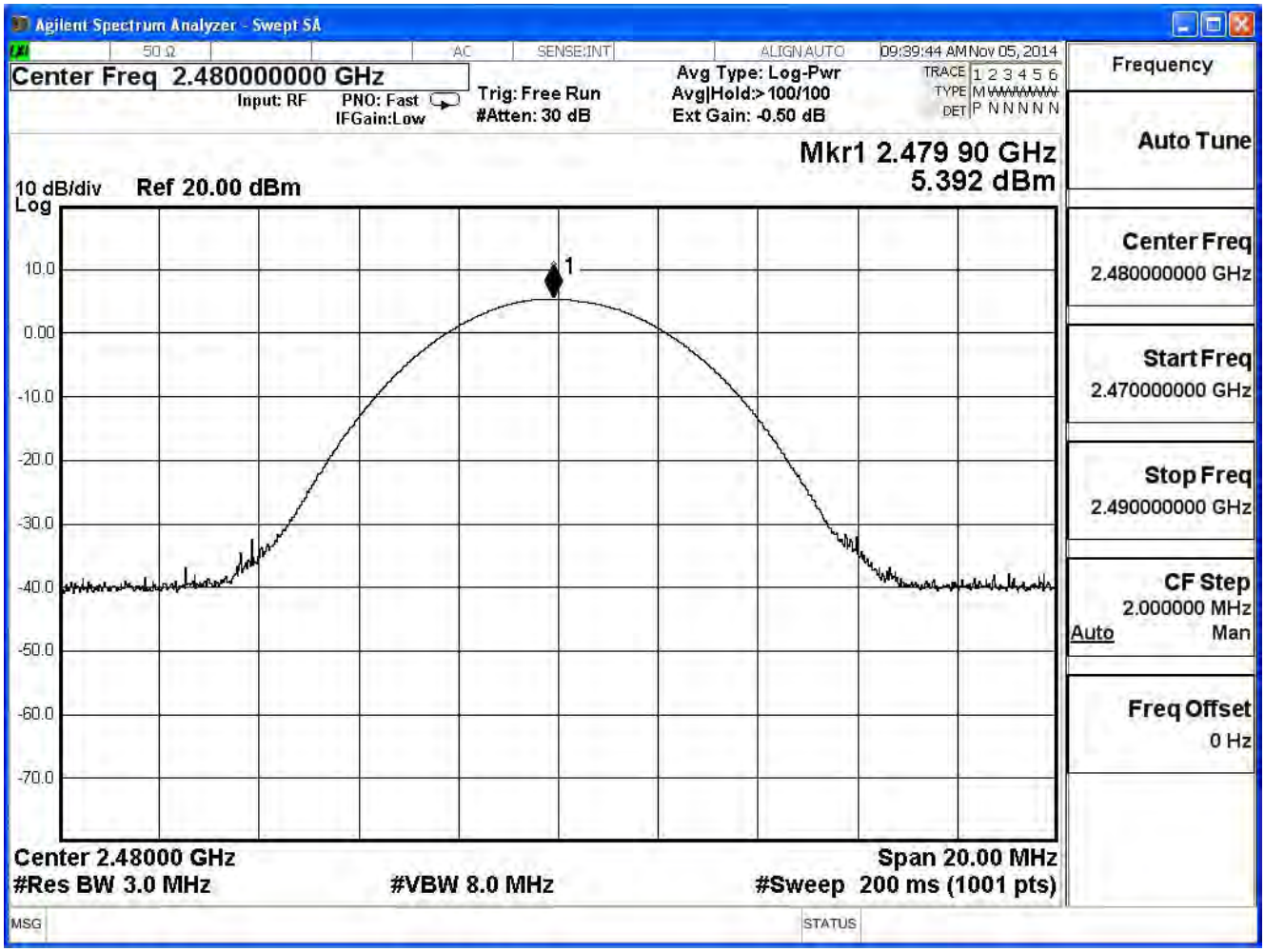
Channel 00



Channel 39


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
09:40:43 AM Nov 05, 2014
Center Freq 2.441000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -0.50 dB
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Mkr1 2.440 84 GHz
5.035 dBm
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center 2.44100 GHz
#Res BW 3.0 MHz
#VBW 8.0 MHz
Span 20.00 MHz
#Sweep 200 ms (1001 pts)
Frequency
Auto Tune
Center Freq
2.441000000 GHz
Start Freq
2.431000000 GHz
Stop Freq
2.451000000 GHz
CF Step
2.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Channel 78

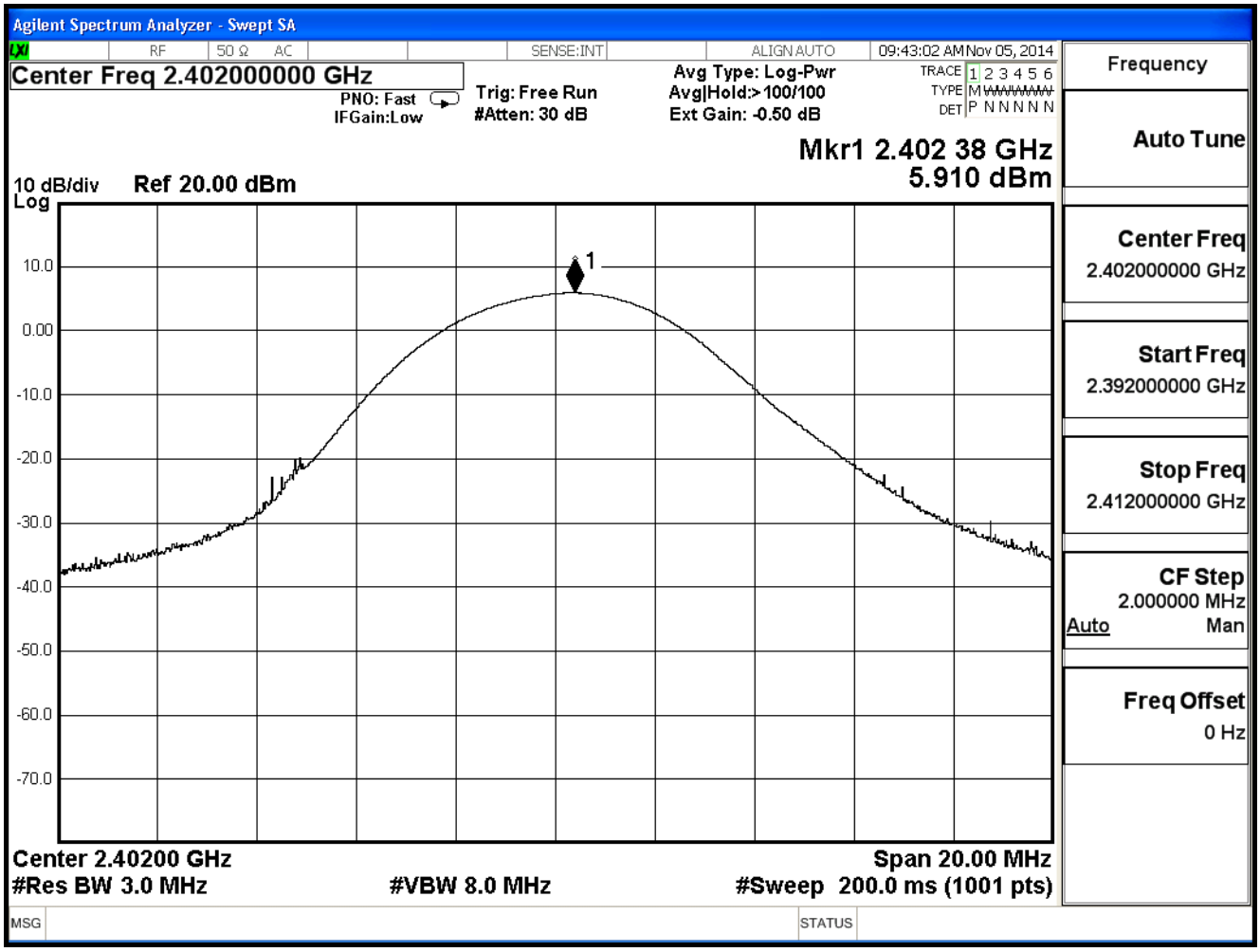

Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
09:39:44 AM Nov 05, 2014
Center Freq 2.480000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -0.50 dB
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Mkr1 2.479 90 GHz
5.392 dBm
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
1
Center 2.48000 GHz
#Res BW 3.0 MHz
#VBW 8.0 MHz
Span 20.00 MHz
#Sweep 200 ms (1001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
2.480000000 GHz
Start Freq
2.470000000 GHz
Stop Freq
2.490000000 GHz
CF Step
2.000000 MHz
Auto
Man
Freq Offset
0 Hz

Product	SALUT		
Test Item	Peak Power Output		
Test Mode	Mode 3: Transmit (8DQPSK)-Power by PC		
Date of Test	2014/11/04	Test Site	SR7

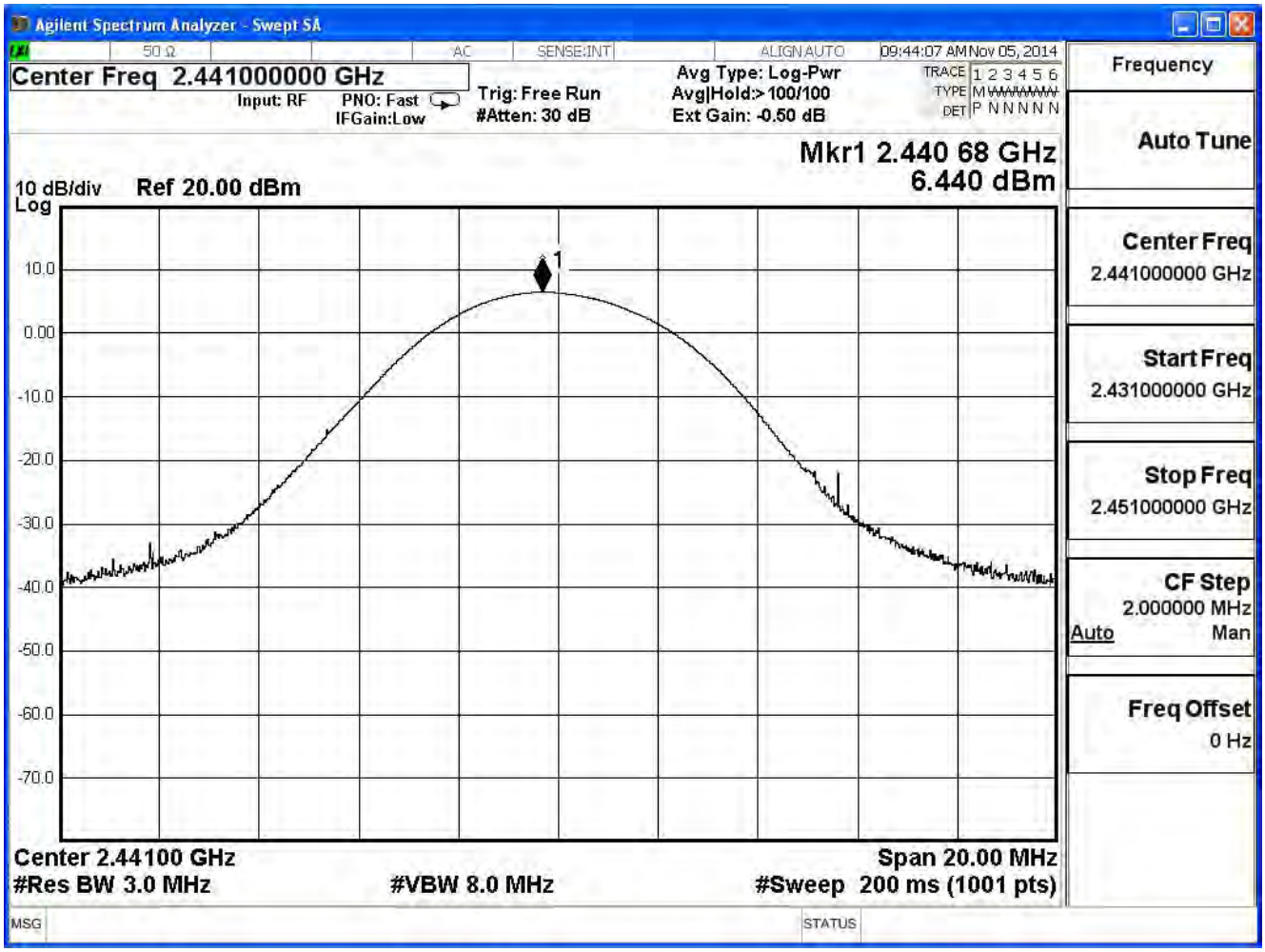
8-DQPSK

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
00	2402	5.910	30	Pass
39	2441	6.440	30	Pass
78	2480	6.756	30	Pass

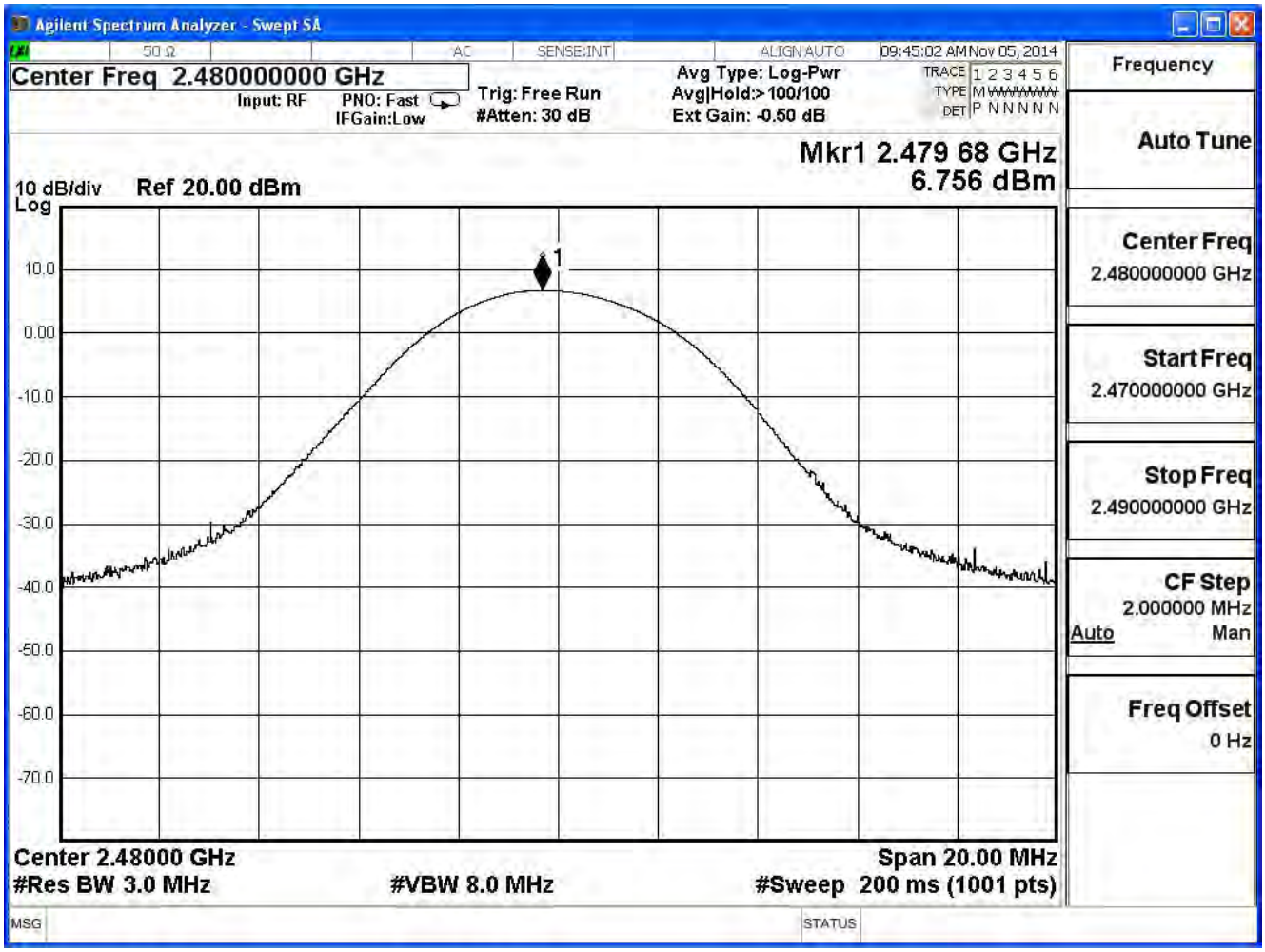
Channel 00



Channel 39


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
09:44:07 AM Nov 05, 2014
Center Freq 2.441000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -0.50 dB
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Mkr1 2.440 68 GHz
6.440 dBm
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center 2.44100 GHz
#Res BW 3.0 MHz
#VBW 8.0 MHz
Span 20.00 MHz
#Sweep 200 ms (1001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
2.441000000 GHz
Start Freq
2.431000000 GHz
Stop Freq
2.451000000 GHz
CF Step
2.000000 MHz
Auto
Man
Freq Offset
0 Hz

Channel 78


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
09:45:02 AM Nov 05, 2014
Center Freq 2.480000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -0.50 dB
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Mkr1 2.479 68 GHz
6.756 dBm
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center 2.48000 GHz
#Res BW 3.0 MHz
#VBW 8.0 MHz
Span 20.00 MHz
#Sweep 200 ms (1001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
2.480000000 GHz
Start Freq
2.470000000 GHz
Stop Freq
2.490000000 GHz
CF Step
2.000000 MHz
Auto
Man
Freq Offset
0 Hz

4. Radiated Emission

4.1. Test Equipment

The following test equipments are used during the test:

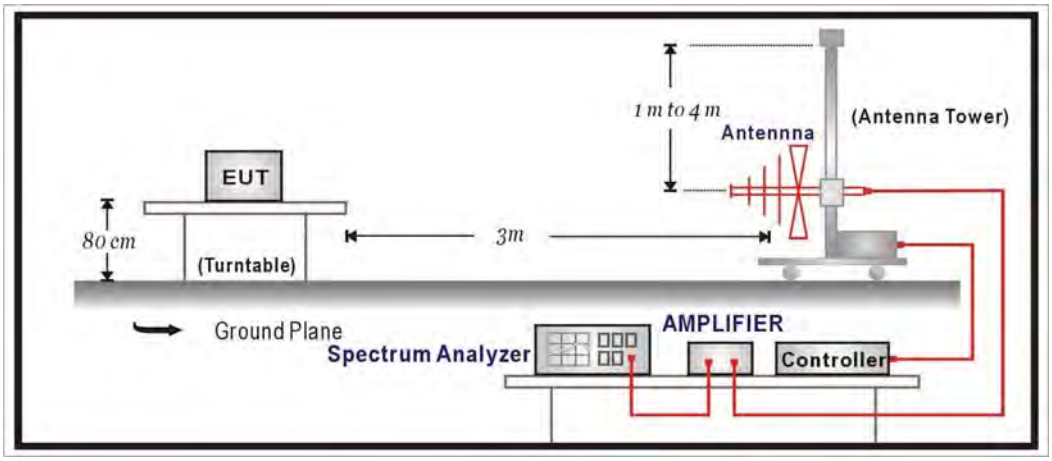
Radiated Emission / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Bilog Antenna	SCHAFFNER	CBL6112B	2895(CB1)	2015/08/14
Double Ridged Guide Horn Antenna	Schwarzback	BBHA 9120	D743	2015/02/12
Pre-Amplifier	Quietek	AMF-4D.	888003	2015/06/02
Pre-Amplifier	QuieTek	AP-025C	CHM-0706049	2015/02/06
Spectrum Analyzer	Agilent	E4440A	MY46187335	2015/01/12
k Type Cable	Huber Suhner	Sucoflex 102	25623/2	2015/02/10

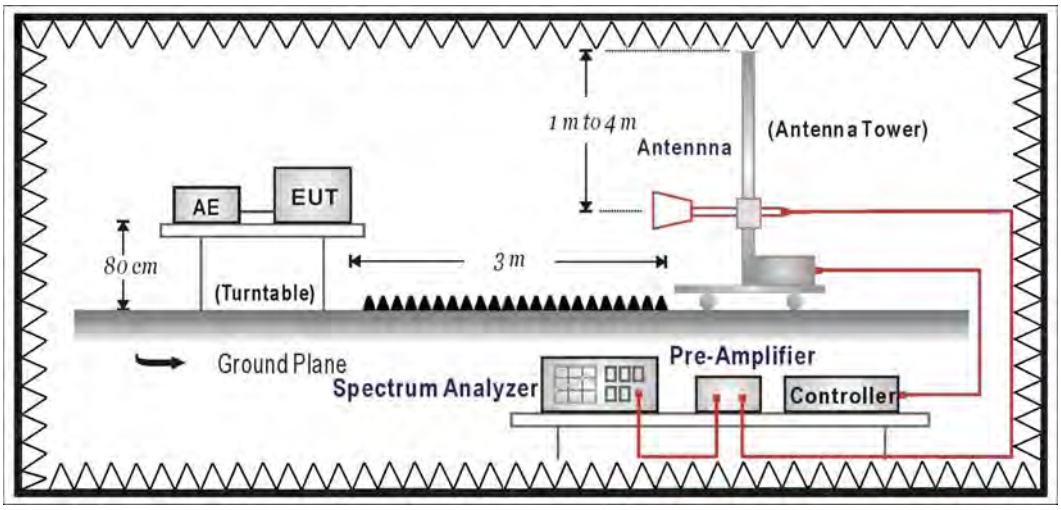
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency MHz	uV/m	dBuV/m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Remarks : 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)

2. In the Above Table, the tighter limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

4.4. Test Procedure

The EUT was setup according to ANSI C63.10:2013 and tested according to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10:2013 on radiated measurement.

On any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit. The bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

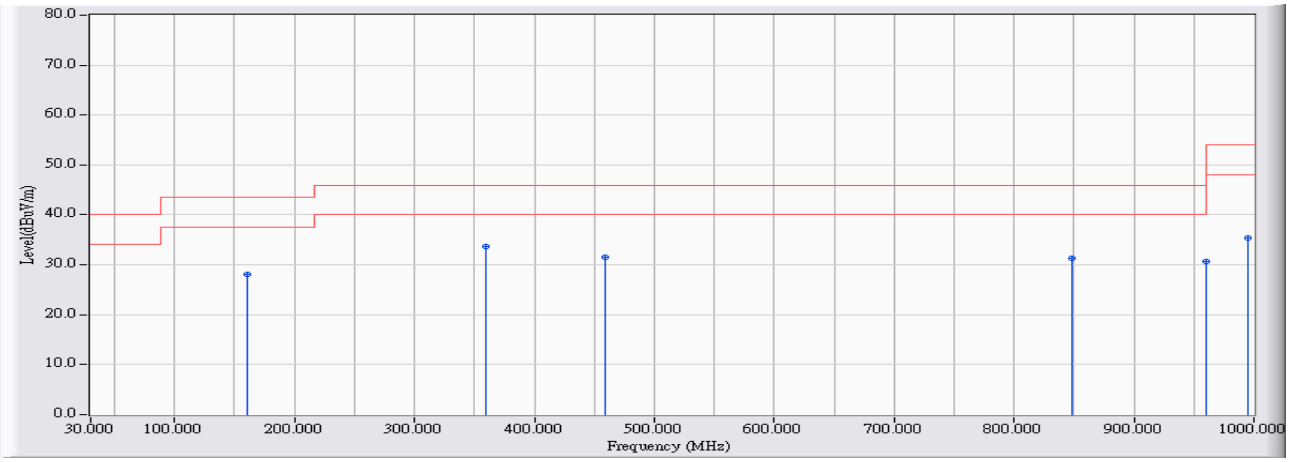
4.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2013

4.6. Test Result

30MHz-1GHz Spurious

Site : CB1	**Time : 2014/11/06 - 11:02**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	**Power : DC 5V**
EUT : SAULT	**Note : Mode 1: Transmit (GFSK)-Power by PC** **2441MHz**

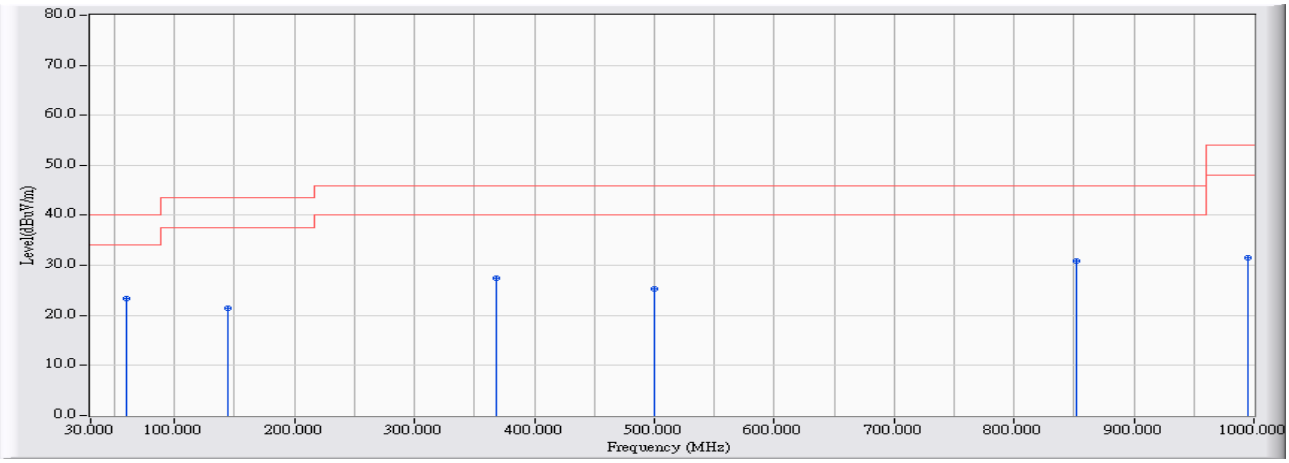


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		159.980	-30.107	58.155	28.049	-15.451	43.500	QUASIPEAK
2	*	359.800	-24.697	58.407	33.710	-12.290	46.000	QUASIPEAK
3		458.740	-22.731	54.254	31.523	-14.477	46.000	QUASIPEAK
4		848.195	-18.747	50.093	31.346	-14.654	46.000	QUASIPEAK
5		959.745	-18.055	48.759	30.704	-15.296	46.000	QUASIPEAK
6		995.150	-17.509	52.832	35.323	-18.677	54.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : CB1	**Time : 2014/11/06 - 11:07**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	**Power : DC 5V**
EUT : SAULT	**Note : Mode 1: Transmit (GFSK)-Power by PC** **2441MHz**

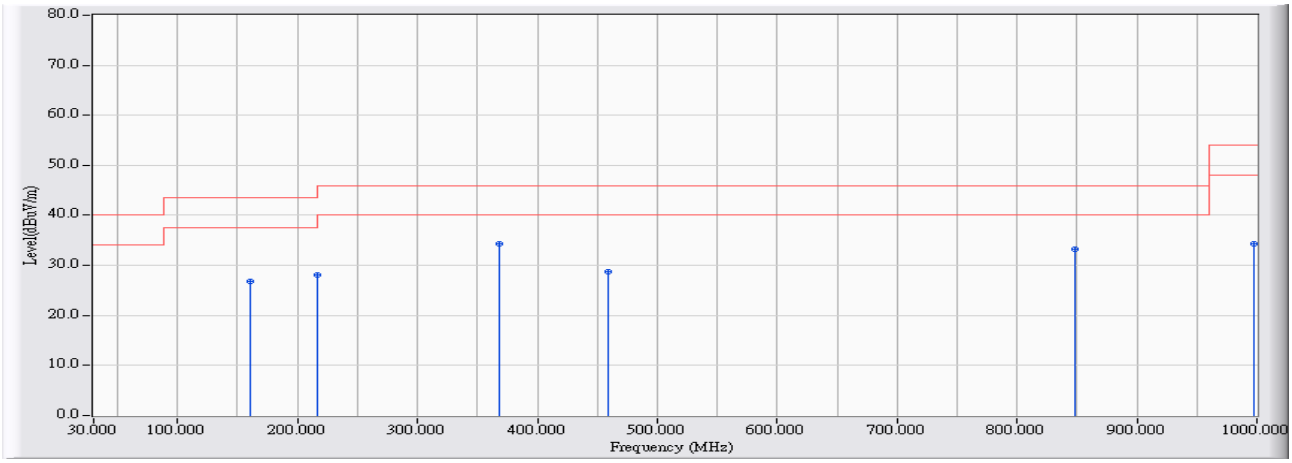


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		59.585	-33.185	56.609	23.424	-16.576	40.000	QUASIPEAK
2		143.975	-29.261	50.775	21.514	-21.986	43.500	QUASIPEAK
3		368.045	-24.502	51.931	27.429	-18.571	46.000	QUASIPEAK
4		499.965	-22.017	47.390	25.372	-20.628	46.000	QUASIPEAK
5	*	852.075	-18.764	49.714	30.949	-15.051	46.000	QUASIPEAK
6		995.635	-17.501	48.992	31.491	-22.509	54.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : CB1	**Time : 2014/11/06 - 11:12**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	**Power : DC 5V**
EUT : SAULT	**Note : Mode 2: Transmit (π/4DQPSK)-Power by PC 2441MHz**

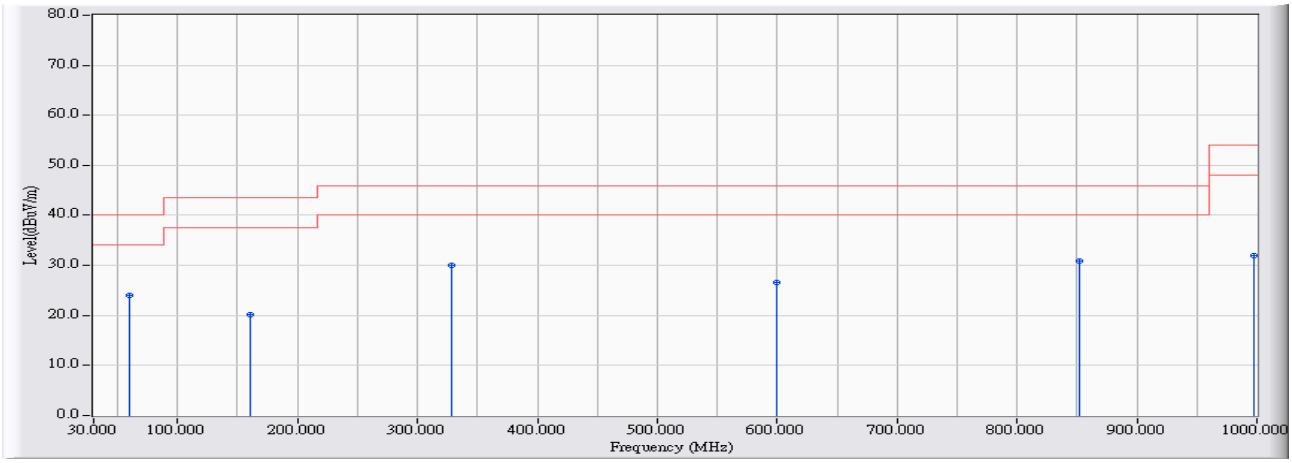


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		159.980	-30.107	56.843	26.737	-16.763	43.500	QUASIPEAK
2		216.240	-29.910	58.089	28.180	-17.820	46.000	QUASIPEAK
3	*	368.045	-24.502	58.925	34.423	-11.577	46.000	QUASIPEAK
4		458.740	-22.731	51.485	28.754	-17.246	46.000	QUASIPEAK
5		848.195	-18.747	51.925	33.178	-12.822	46.000	QUASIPEAK
6		998.060	-17.464	51.730	34.266	-19.734	54.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : CB1	**Time : 2014/11/06 - 11:17**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	**Power : DC 5V**
EUT : SAULT	**Note : Mode 2: Transmit (π/4DQPSK)-Power by PC 2441MHz**

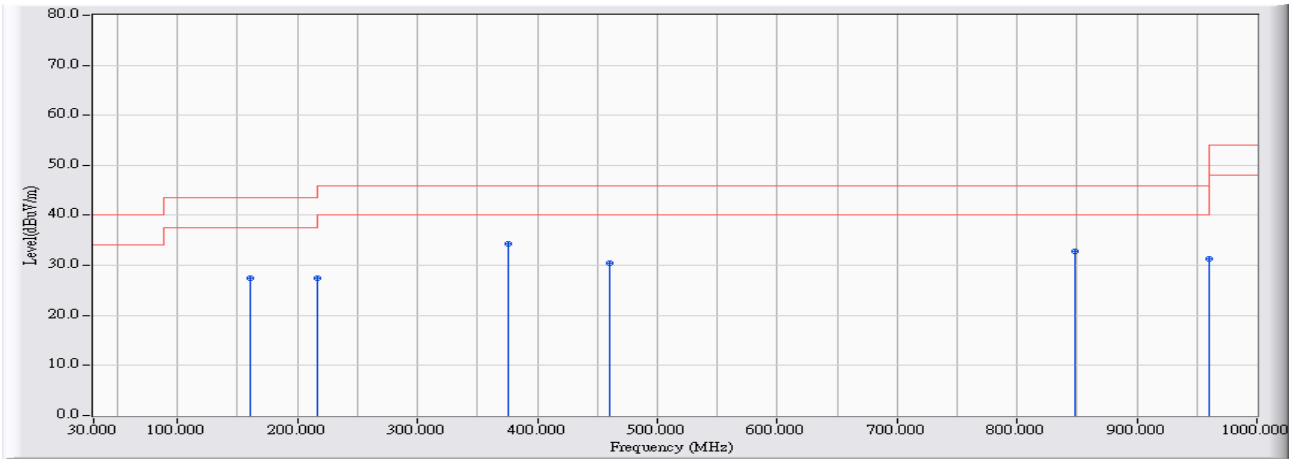


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		59.585	-33.185	57.304	24.119	-15.881	40.000	QUASIPEAK
2		159.980	-30.107	50.230	20.124	-23.376	43.500	QUASIPEAK
3		328.760	-25.429	55.448	30.019	-15.981	46.000	QUASIPEAK
4		599.875	-21.254	47.914	26.661	-19.339	46.000	QUASIPEAK
5	*	852.075	-18.764	49.548	30.783	-15.217	46.000	QUASIPEAK
6		997.090	-17.479	49.522	32.043	-21.957	54.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : CB1	**Time : 2014/11/06 - 11:22**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	**Power : DC 5V**
EUT : SAULT	**Note : Mode 3: Transmit (8DQPSK)-Power by PC 2441MHz**

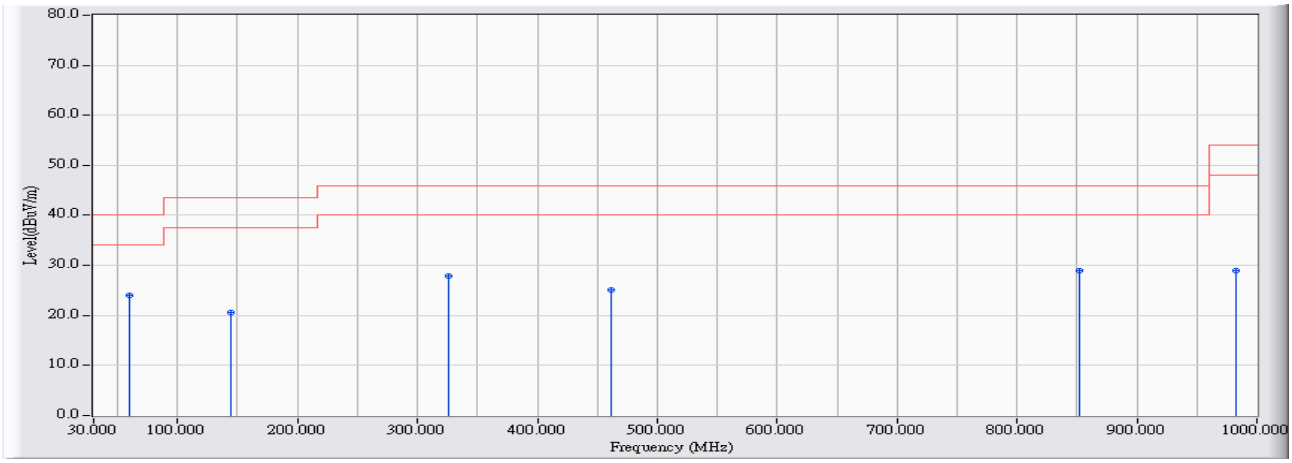


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		159.980	-30.107	57.515	27.409	-16.091	43.500	QUASIPEAK
2		216.240	-29.910	57.272	27.363	-18.637	46.000	QUASIPEAK
3	*	375.805	-24.320	58.611	34.292	-11.708	46.000	QUASIPEAK
4		460.195	-22.705	53.088	30.382	-15.618	46.000	QUASIPEAK
5		848.195	-18.747	51.496	32.749	-13.251	46.000	QUASIPEAK
6		960.230	-18.048	49.375	31.327	-22.673	54.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : CB1	**Time : 2014/11/06 - 11:27**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	**Power : DC 5V**
EUT : SAULT	**Note : Mode 3: Transmit (8DQPSK)-Power by PC 2441MHz**

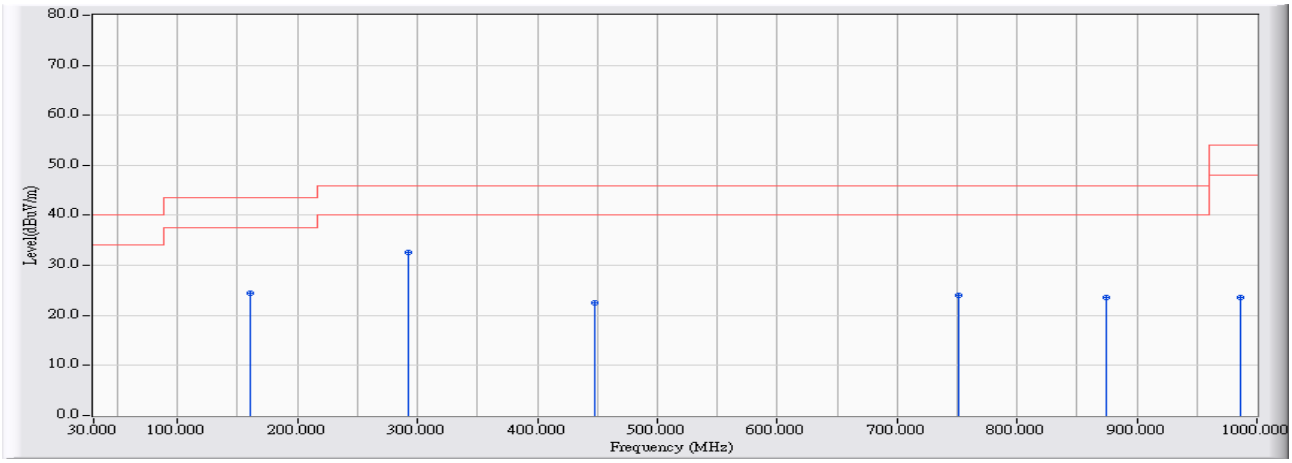


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	59.585	-33.185	57.204	24.019	-15.981	40.000	QUASIPEAK
2		143.975	-29.261	49.851	20.590	-22.910	43.500	QUASIPEAK
3		326.335	-25.486	53.419	27.932	-18.068	46.000	QUASIPEAK
4		461.650	-22.681	47.789	25.108	-20.892	46.000	QUASIPEAK
5		852.075	-18.764	47.784	29.019	-16.981	46.000	QUASIPEAK
6		983.025	-17.696	46.563	28.867	-25.133	54.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : CB1	**Time : 2014/11/06 - 10:30**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	**Power : DC 5V**
EUT : SAULT	**Note : Mode 4: Transmit (GFSK)-Power by Battery 2441MHz**

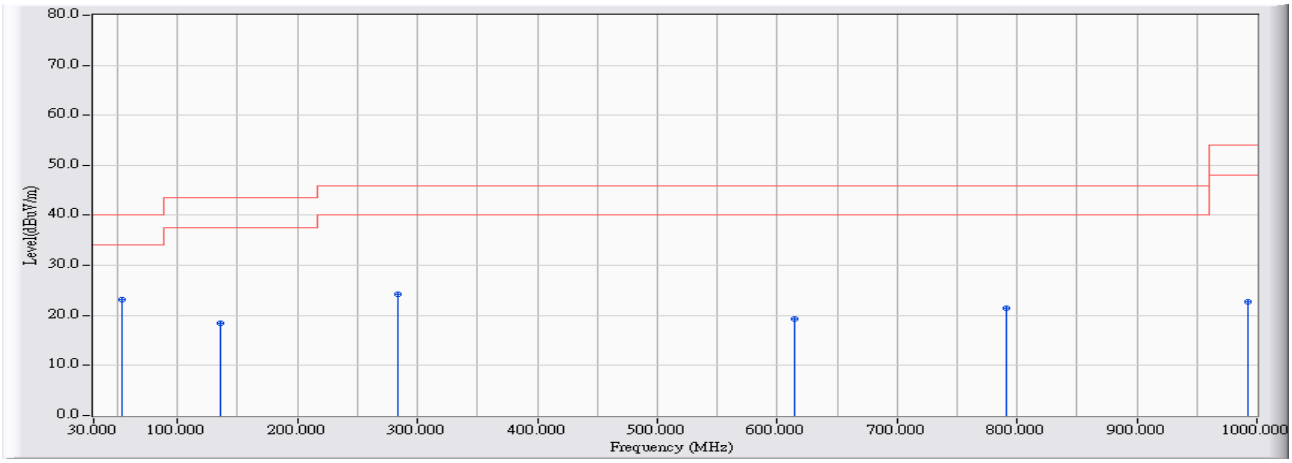


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		159.980	-30.107	54.644	24.538	-18.962	43.500	QUASIPEAK
2	*	291.900	-26.290	58.850	32.561	-13.439	46.000	QUASIPEAK
3		448.070	-22.916	45.542	22.626	-23.374	46.000	QUASIPEAK
4		750.710	-19.922	44.022	24.100	-21.900	46.000	QUASIPEAK
5		874.385	-18.863	42.408	23.545	-22.455	46.000	QUASIPEAK
6		985.935	-17.651	41.215	23.564	-30.436	54.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : CB1	**Time : 2014/11/06 - 10:36**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	**Power : DC 5V**
EUT : SAULT	**Note : Mode 4: Transmit (GFSK)-Power by Battery 2441MHz**

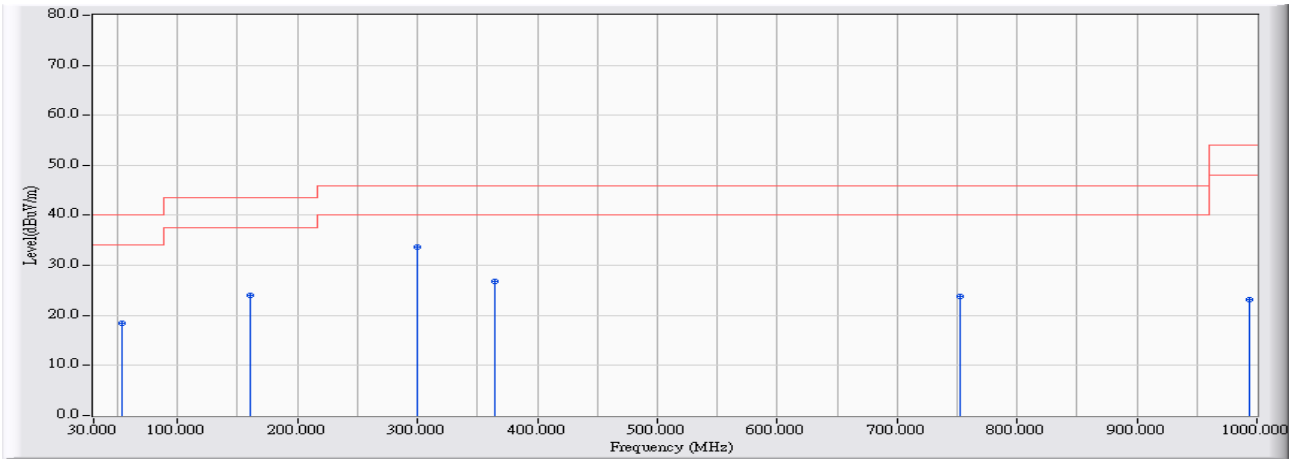


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	53.765	-32.718	55.826	23.108	-16.892	40.000	QUASIPEAK
2		136.215	-28.911	47.357	18.447	-25.053	43.500	QUASIPEAK
3		284.140	-26.464	50.761	24.298	-21.702	46.000	QUASIPEAK
4		613.940	-21.264	40.481	19.217	-26.783	46.000	QUASIPEAK
5		790.480	-18.803	40.217	21.415	-24.585	46.000	QUASIPEAK
6		992.725	-17.546	40.379	22.833	-31.167	54.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : CB1	**Time : 2014/11/06 - 10:42**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	**Power : DC 5V**
EUT : SAULT	**Note : Mode 5: Transmit (π/4DQPSK)-Power by Battery 2441MHz**

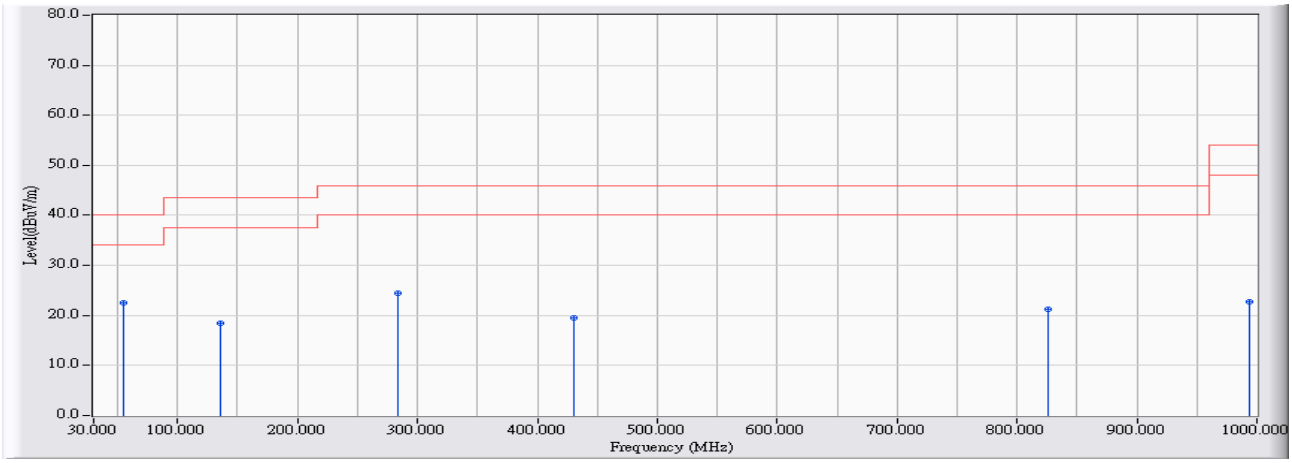


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		53.765	-32.718	51.182	18.464	-21.536	40.000	QUASIPEAK
2		159.980	-30.107	54.055	23.949	-19.551	43.500	QUASIPEAK
3	*	300.145	-26.105	59.686	33.581	-12.419	46.000	QUASIPEAK
4		364.165	-24.594	51.412	26.818	-19.182	46.000	QUASIPEAK
5		752.165	-19.882	43.745	23.864	-22.136	46.000	QUASIPEAK
6		993.695	-17.532	40.794	23.263	-30.737	54.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : CB1	**Time : 2014/11/06 – 10:47**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	**Power : DC 5V**
EUT : SAULT	**Note : Mode 5: Transmit (π/4DQPSK)-Power by Battery 2441MHz**

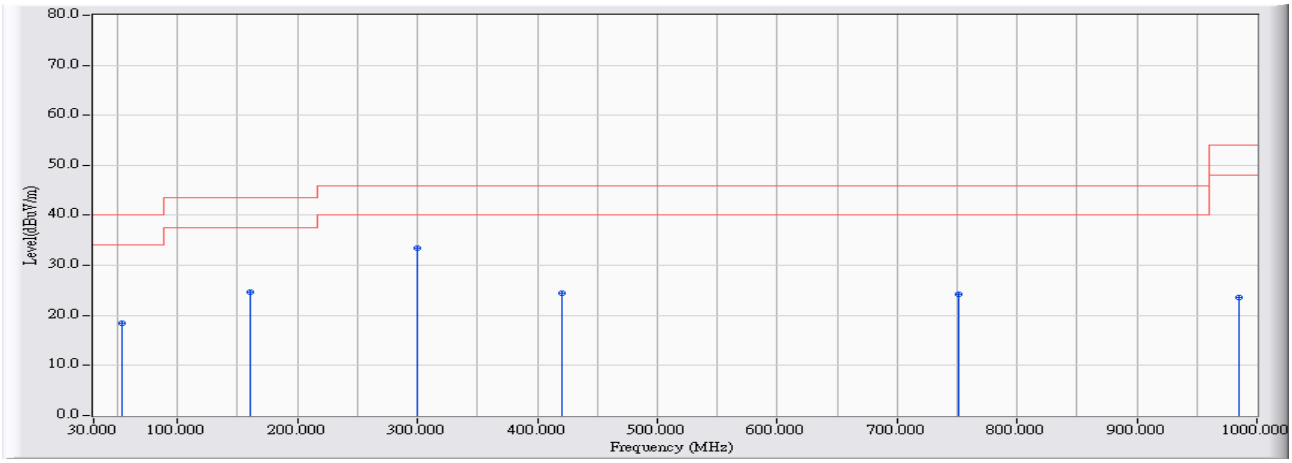


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	54.735	-32.796	55.261	22.465	-17.535	40.000	QUASIPEAK
2		136.215	-28.911	47.407	18.497	-25.003	43.500	QUASIPEAK
3		284.140	-26.464	50.910	24.447	-21.553	46.000	QUASIPEAK
4		430.125	-23.227	42.751	19.524	-26.476	46.000	QUASIPEAK
5		825.400	-18.647	39.941	21.295	-24.705	46.000	QUASIPEAK
6		993.210	-17.539	40.283	22.744	-31.256	54.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : CB1	**Time : 2014/11/06 – 10:52**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	**Power : DC 5V**
EUT : SAULT	**Note : Mode 6: Transmit (8DQPSK)-Power by Battery 2441MHz**

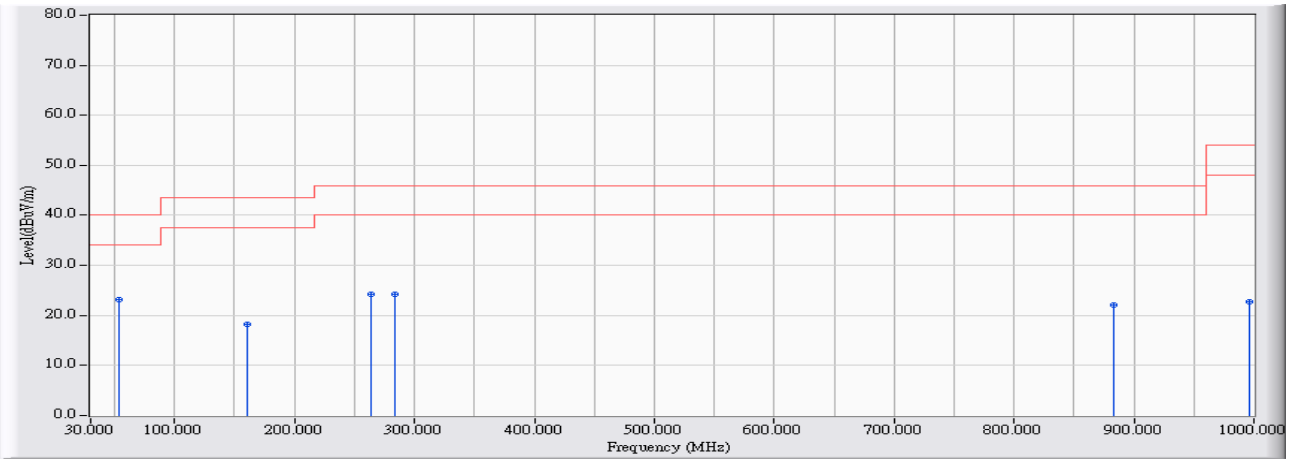


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		53.765	-32.718	51.182	18.464	-21.536	40.000	QUASIPEAK
2		159.980	-30.107	54.771	24.665	-18.835	43.500	QUASIPEAK
3	*	300.145	-26.105	59.534	33.429	-12.571	46.000	QUASIPEAK
4		419.940	-23.403	47.822	24.419	-21.581	46.000	QUASIPEAK
5		750.710	-19.922	44.056	24.134	-21.866	46.000	QUASIPEAK
6		985.450	-17.659	41.252	23.594	-30.406	54.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : CB1	**Time : 2014/11/06 – 10:57**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	**Power : DC 5V**
EUT : SAULT	**Note : Mode 6: Transmit (8DQPSK)-Power by Battery 2441MHz**



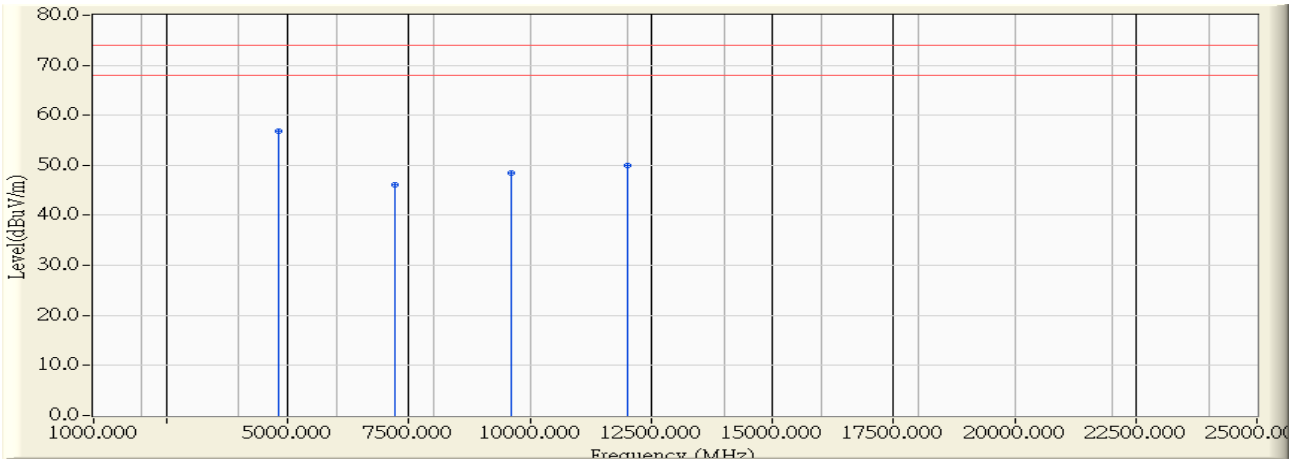
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	54.250	-32.757	55.920	23.163	-16.837	40.000	QUASIPEAK
2		159.980	-30.107	48.376	18.270	-25.230	43.500	QUASIPEAK
3		263.770	-26.920	51.159	24.239	-21.761	46.000	QUASIPEAK
4		284.140	-26.464	50.694	24.231	-21.769	46.000	QUASIPEAK
5		883.600	-18.904	40.929	22.025	-23.975	46.000	QUASIPEAK
6		996.605	-17.487	40.241	22.755	-31.245	54.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Harmonic & Spurious:

Site : CB1	**Time : 2014/11/05 - 18:28**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : SALUT	**Note : Mode 1: Transmit (GFSK)-Power by PC** **2402MHz**

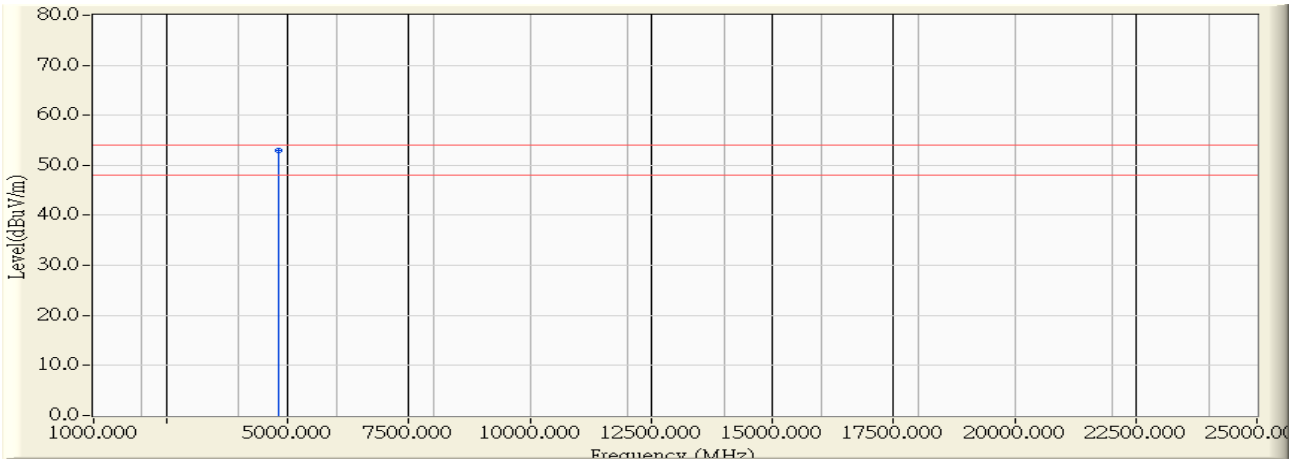


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4804.450	-0.581	57.410	56.829	-17.171	74.000	PEAK
2		7204.920	5.451	40.600	46.052	-27.948	74.000	PEAK
3		9611.210	9.207	39.330	48.538	-25.462	74.000	PEAK
4		12008.780	11.123	38.890	50.013	-23.987	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2014/11/05 - 18:28**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : SALUT	**Note : Mode 1: Transmit (GFSK)-Power by PC 2402MHz**

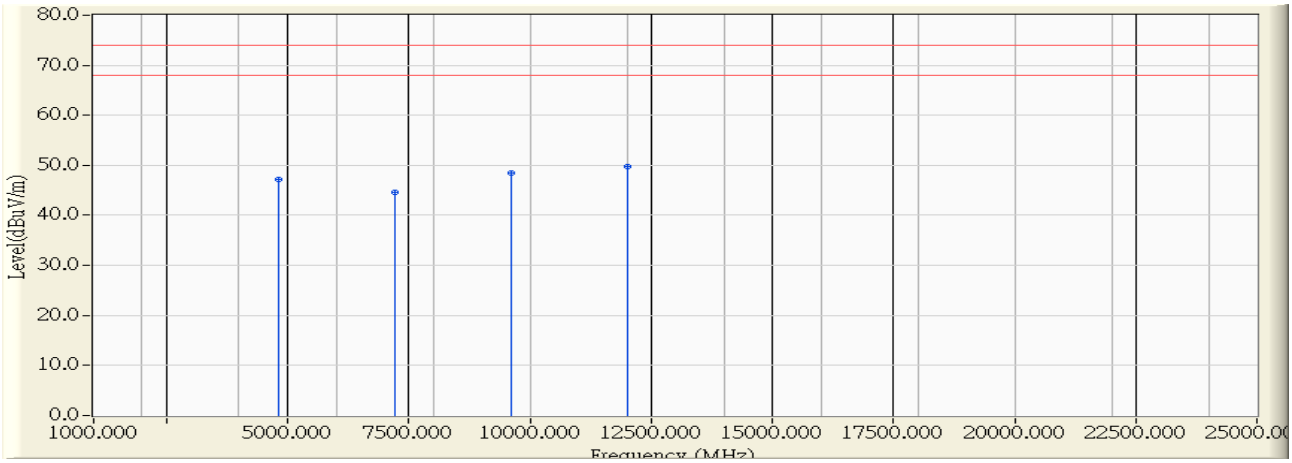


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4804.050	-0.582	53.500	52.918	-1.082	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2014/11/05 - 18:48**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : SALUT	**Note : Mode 1: Transmit (GFSK)-Power by PC 2402MHz**

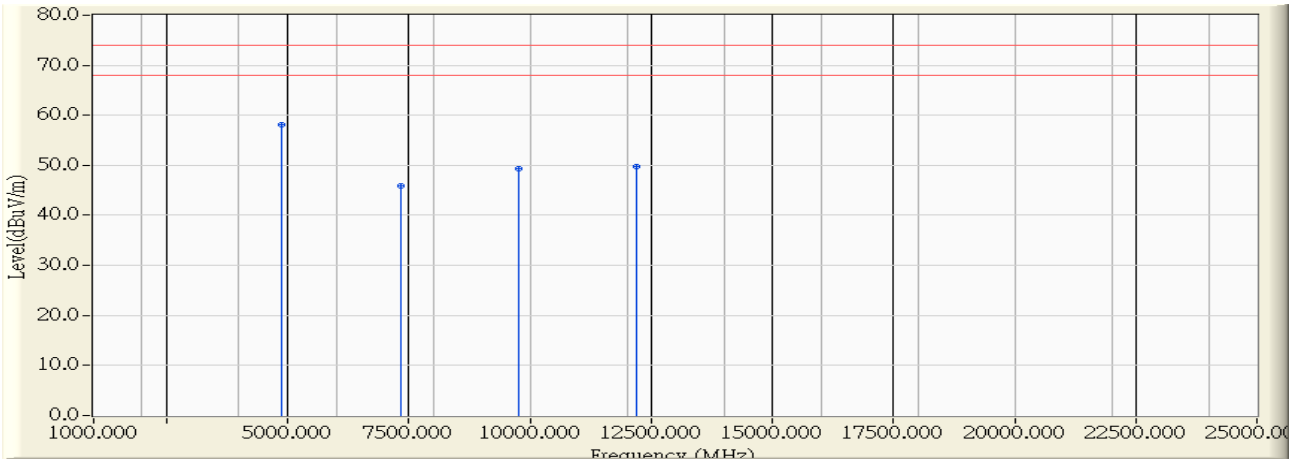


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4803.600	-0.583	47.730	47.147	-26.853	74.000	PEAK
2		7205.340	5.453	39.250	44.702	-29.298	74.000	PEAK
3		9604.350	9.163	39.290	48.453	-25.547	74.000	PEAK
4	*	12003.060	11.126	38.650	49.776	-24.224	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2014/11/05 - 18:51**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : SALUT	**Note : Mode 1: Transmit (GFSK)-Power by PC 2441MHz**

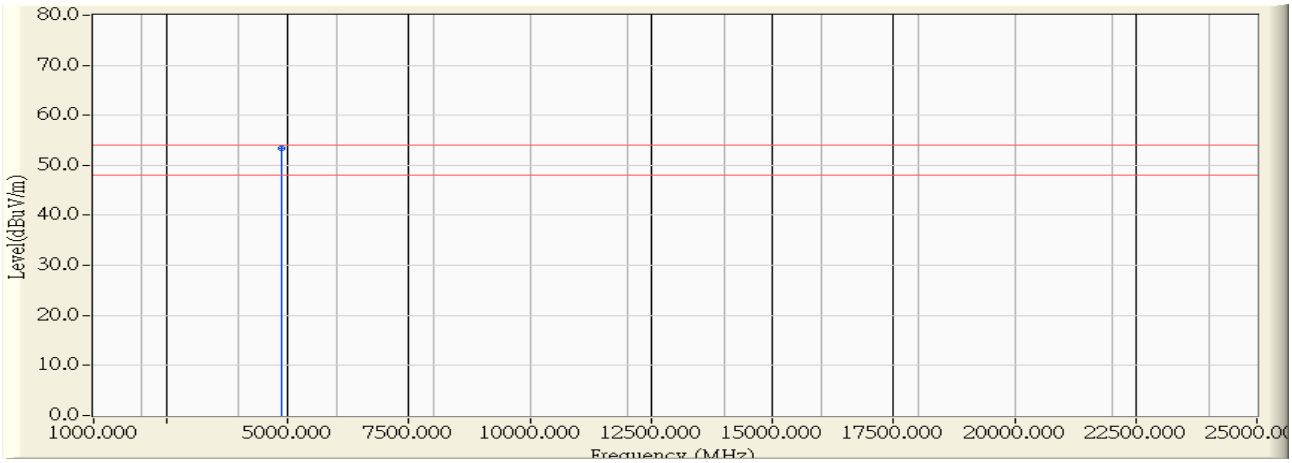


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4881.590	-0.393	58.520	58.127	-15.873	74.000	PEAK
2		7326.200	5.714	40.280	45.994	-28.006	74.000	PEAK
3		9761.020	10.178	39.230	49.408	-24.592	74.000	PEAK
4		12213.110	11.030	38.710	49.740	-24.260	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2014/11/05 - 18:54**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : SALUT	**Note : Mode 1: Transmit (GFSK)-Power by PC** **2441MHz**

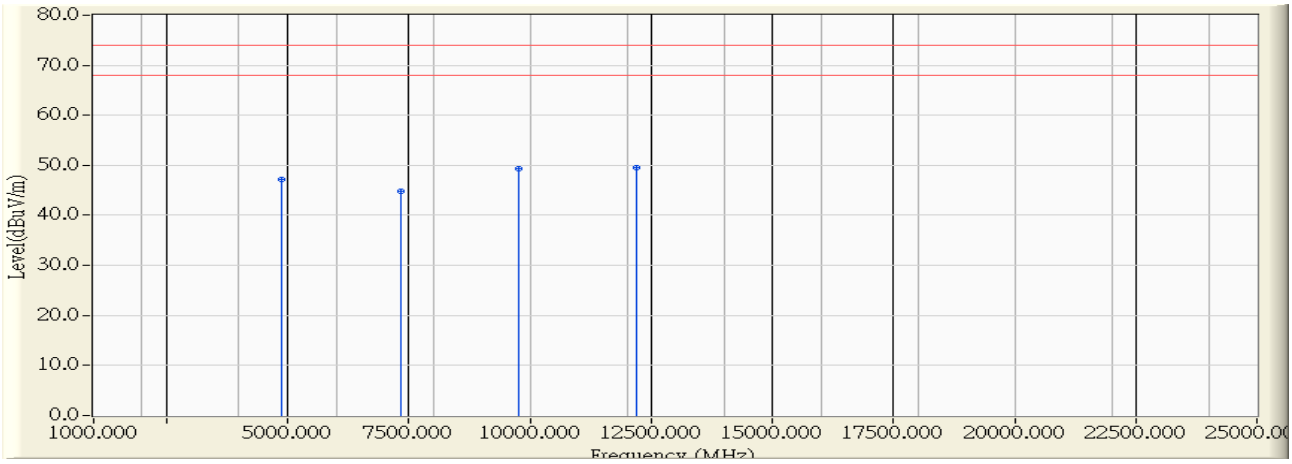


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4882.020	-0.392	53.760	53.368	-0.632	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2014/11/05 - 19:18**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : SALUT	**Note : Mode 1: Transmit (GFSK)-Power by PC** **2441MHz**

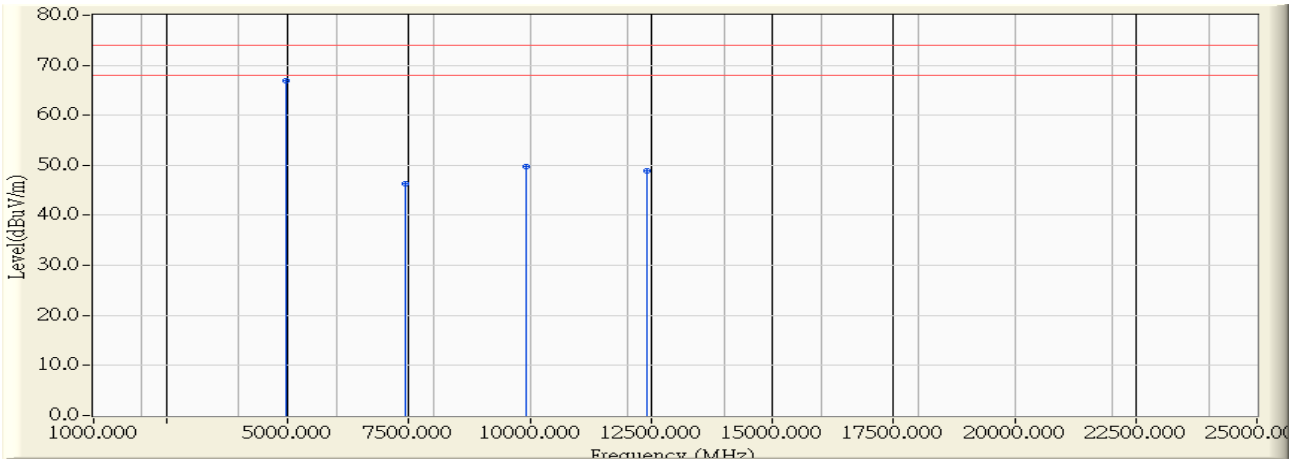


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4881.640	-0.393	47.660	47.267	-26.733	74.000	PEAK
2		7332.410	5.728	39.130	44.857	-29.143	74.000	PEAK
3		9764.510	10.200	39.200	49.400	-24.600	74.000	PEAK
4	*	12208.950	11.032	38.520	49.552	-24.448	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2014/11/05 - 19:30**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : SALUT	**Note : Mode 1: Transmit (GFSK)-Power by PC 2480MHz**

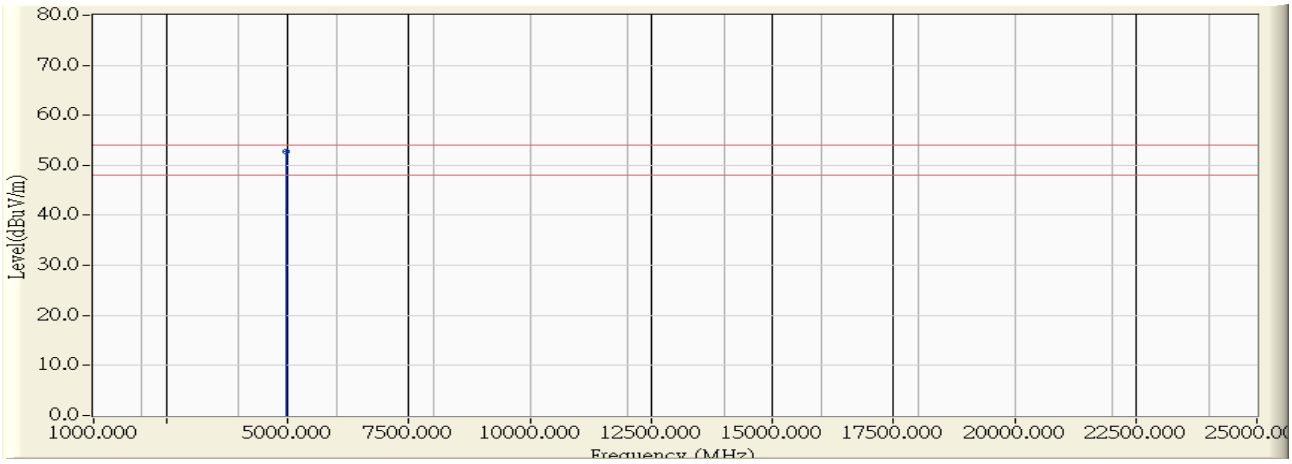


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4959.600	-0.203	67.110	66.907	-7.093	74.000	PEAK
2		7445.600	5.972	40.360	46.332	-27.668	74.000	PEAK
3		9918.400	11.196	38.650	49.847	-24.153	74.000	PEAK
4		12400.220	10.944	38.000	48.945	-25.055	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2014/11/05 - 19:31**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : SALUT	**Note : Mode 1: Transmit (GFSK)-Power by PC** **2480MHz**

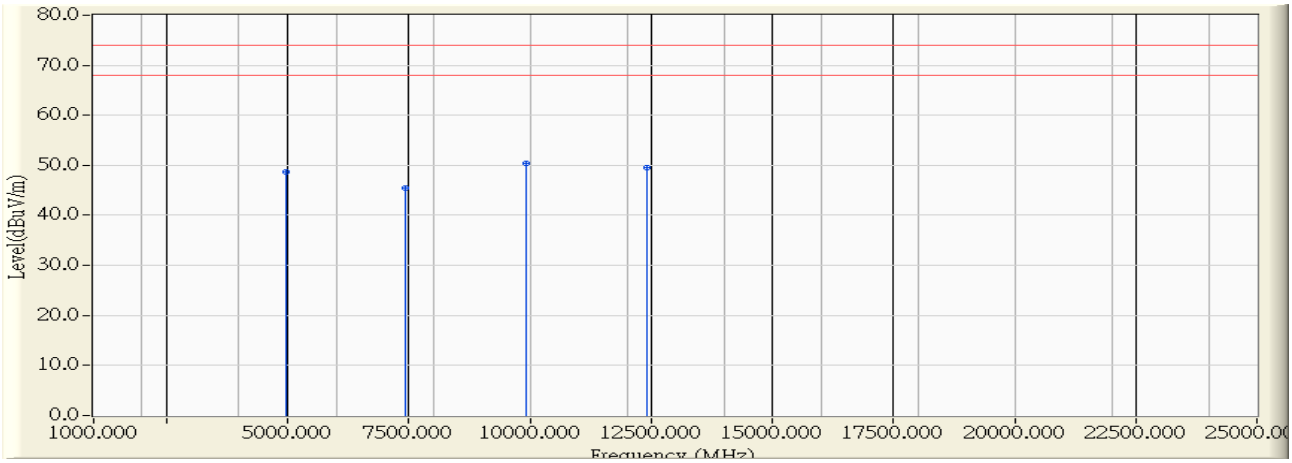


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4960.020	-0.202	52.940	52.738	-1.262	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2014/11/05 - 19:49**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : SALUT	**Note : Mode 1: Transmit (GFSK)-Power by PC 2480MHz**

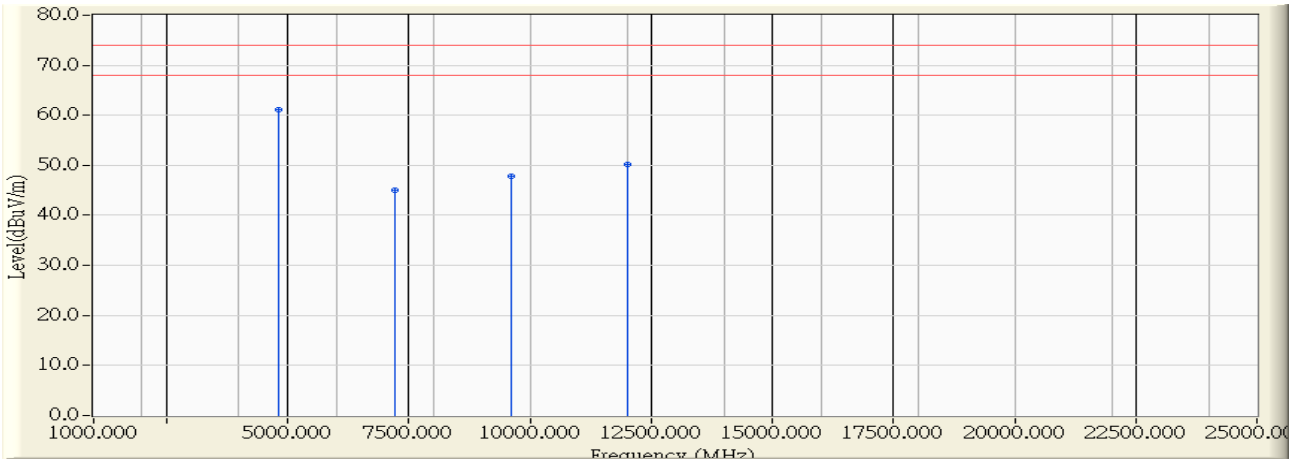


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4959.640	-0.202	48.980	48.777	-25.223	74.000	PEAK
2		7438.430	5.957	39.490	45.447	-28.553	74.000	PEAK
3	*	9916.980	11.187	39.280	50.467	-23.533	74.000	PEAK
4		12405.290	10.942	38.500	49.442	-24.558	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2014/11/05 - 20:07**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : SALUT	**Note : Mode 2: Transmit (π/4DQPSK)-Power by PC 2402MHz**

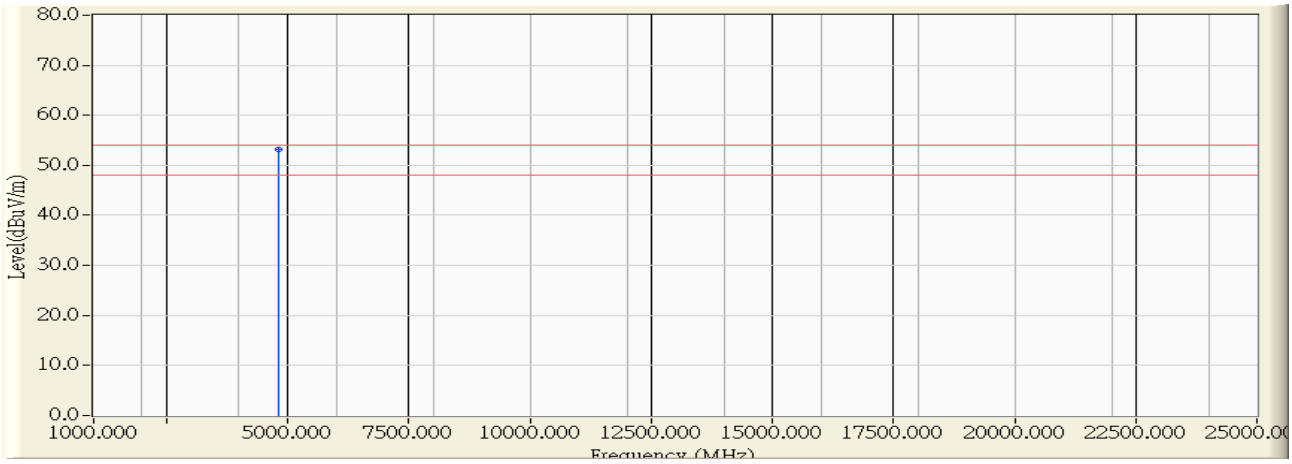


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4804.250	-0.581	61.770	61.188	-12.812	74.000	PEAK
2		7206.090	5.454	39.630	45.084	-28.916	74.000	PEAK
3		9609.180	9.194	38.650	47.845	-26.155	74.000	PEAK
4		12008.690	11.123	39.000	50.123	-23.877	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2014/11/05 - 20:04**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : SALUT	**Note : Mode 2: Transmit (π/4DQPSK)-Power by PC 2402MHz**

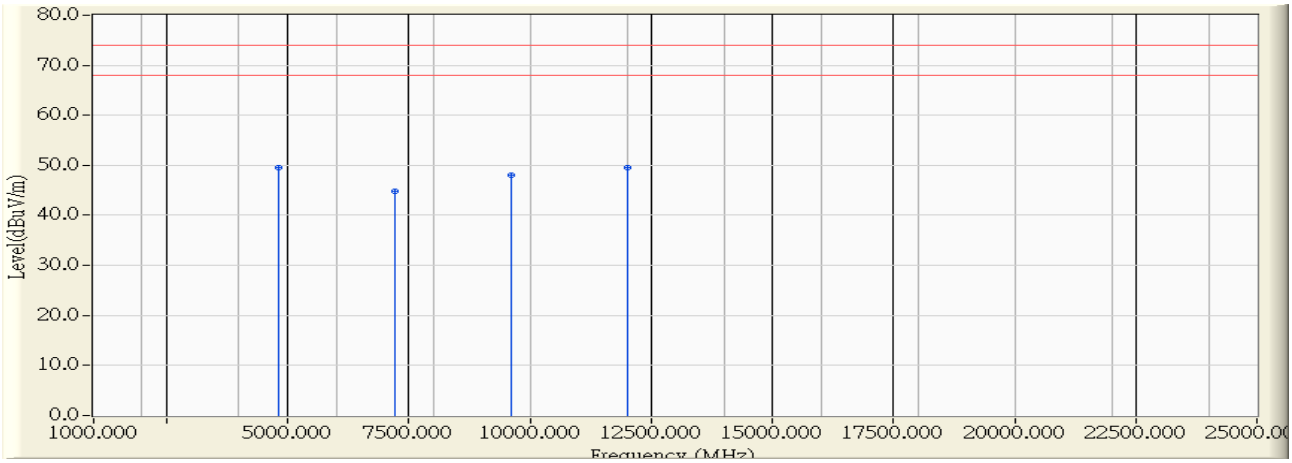


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4804.080	-0.581	53.710	53.128	-0.872	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2014/11/05 - 20:16**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : SALUT	**Note : Mode 2: Transmit (π/4DQPSK)-Power by PC 2402MHz**

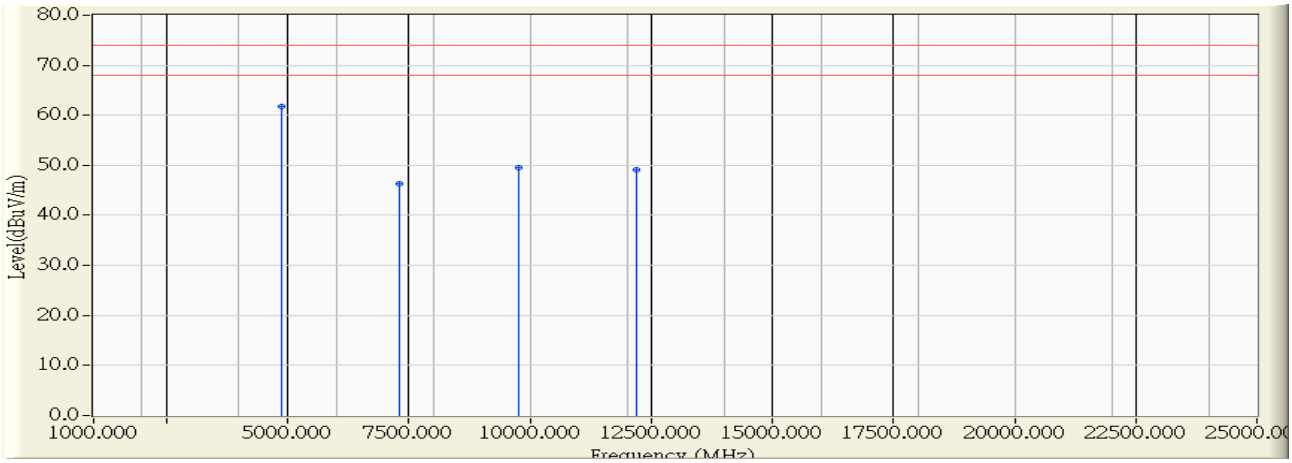


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4804.430	-0.581	50.040	49.459	-24.541	74.000	PEAK
2		7206.210	5.454	39.340	44.794	-29.206	74.000	PEAK
3		9614.280	9.228	38.710	47.938	-26.062	74.000	PEAK
4	*	12014.700	11.121	38.420	49.541	-24.459	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2014/11/05 - 20:21**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : SALUT	**Note : Mode 2: Transmit (π/4DQPSK)-Power by PC 2441MHz**

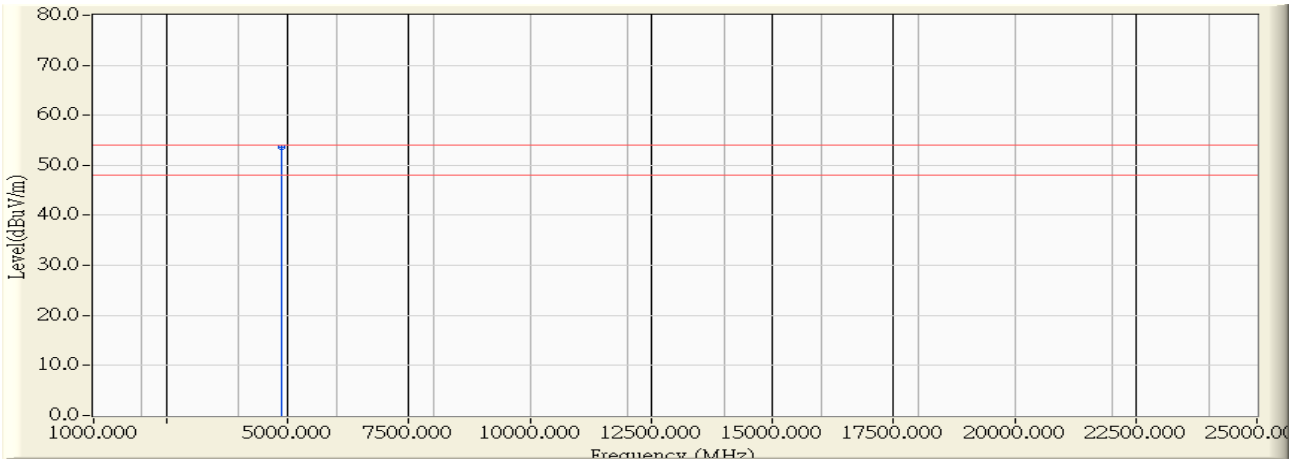


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4881.760	-0.393	62.210	61.817	-12.183	74.000	PEAK
2		7322.500	5.706	40.670	46.376	-27.624	74.000	PEAK
3		9763.710	10.195	39.360	49.555	-24.445	74.000	PEAK
4		12211.620	11.030	38.190	49.221	-24.779	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2014/11/05 - 20:22**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : SALUT	**Note : Mode 2: Transmit (π/4DQPSK)-Power by PC 2441MHz**

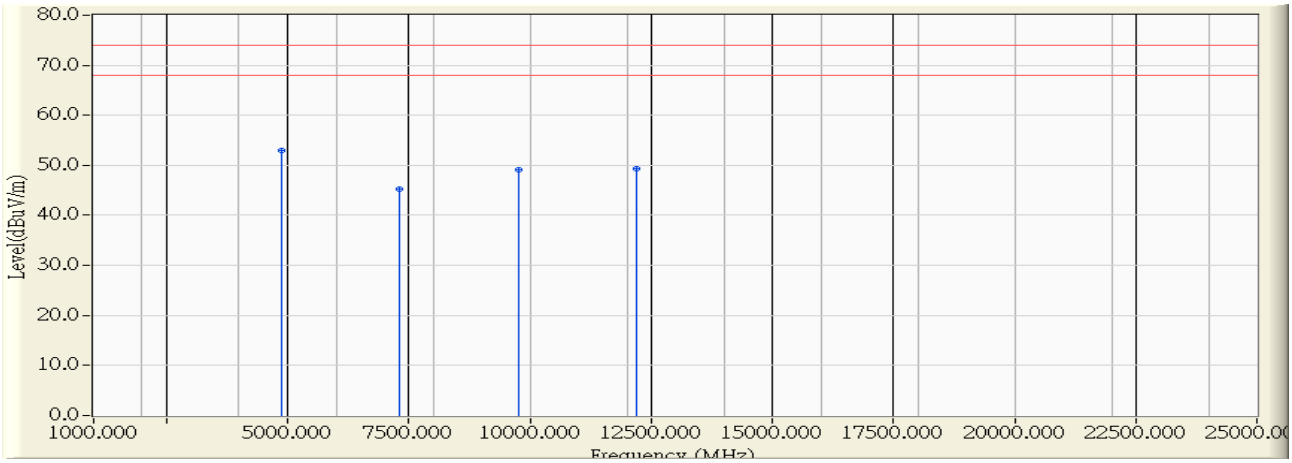


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4881.970	-0.392	54.080	53.688	-0.312	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2014/11/05 - 20:32**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : SALUT	**Note : Mode 2: Transmit (π/4DQPSK)-Power by PC 2441MHz**

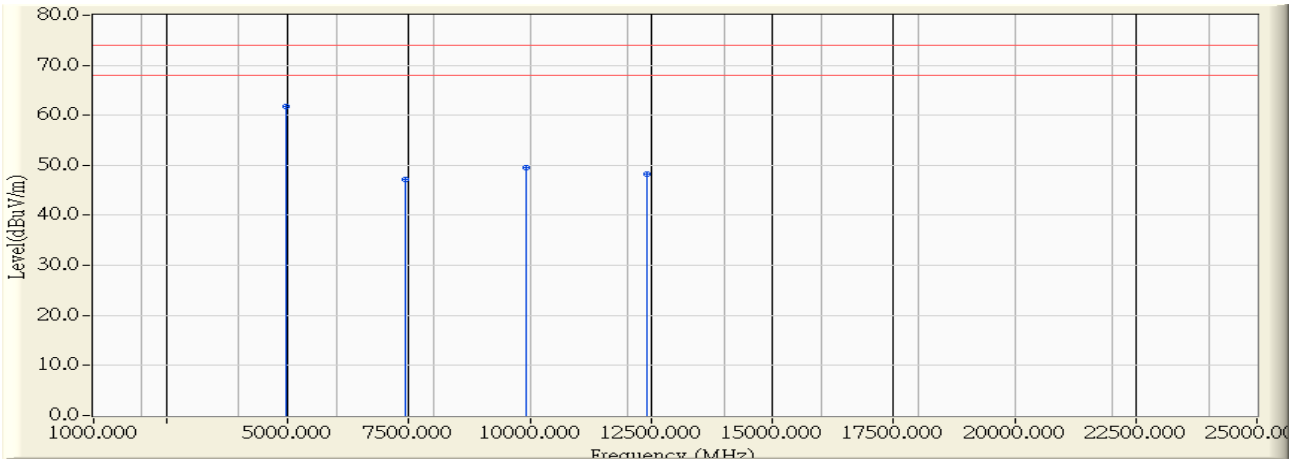


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4881.540	-0.393	53.300	52.907	-21.093	74.000	PEAK
2		7322.760	5.707	39.490	45.197	-28.803	74.000	PEAK
3		9771.330	10.244	38.860	49.104	-24.896	74.000	PEAK
4		12202.090	11.035	38.230	49.265	-24.735	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2014/11/05 - 20:37**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : SALUT	**Note : Mode 2: Transmit (π/4DQPSK)-Power by PC 2480MHz**

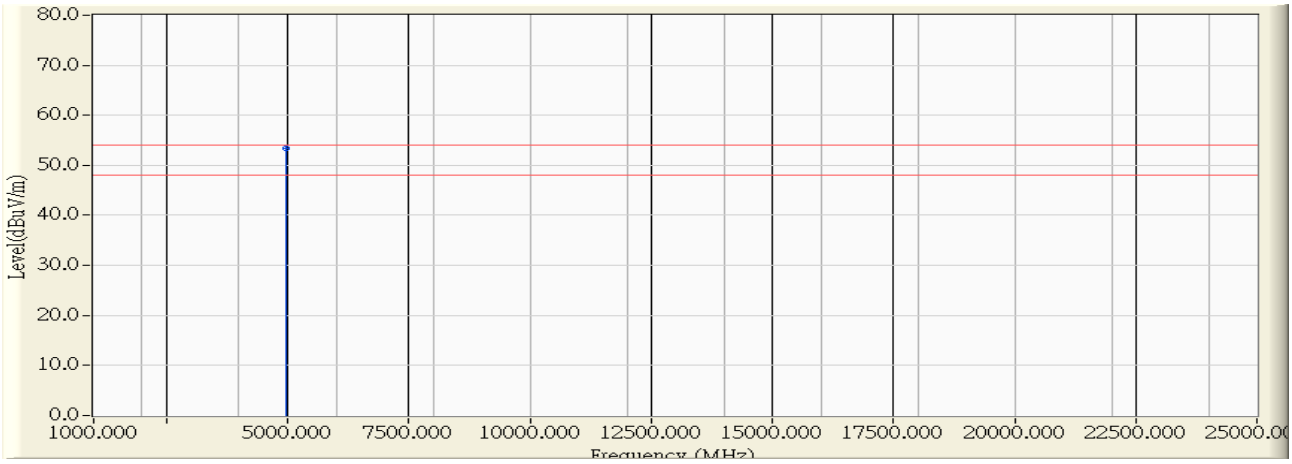


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4959.800	-0.202	62.020	61.817	-12.183	74.000	PEAK
2		7439.580	5.959	41.220	47.179	-26.821	74.000	PEAK
3		9921.720	11.218	38.300	49.518	-24.482	74.000	PEAK
4		12409.800	10.941	37.400	48.340	-25.660	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2014/11/05 - 20:40**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : SALUT	**Note : Mode 2: Transmit (π/4DQPSK)-Power by PC 2480MHz**

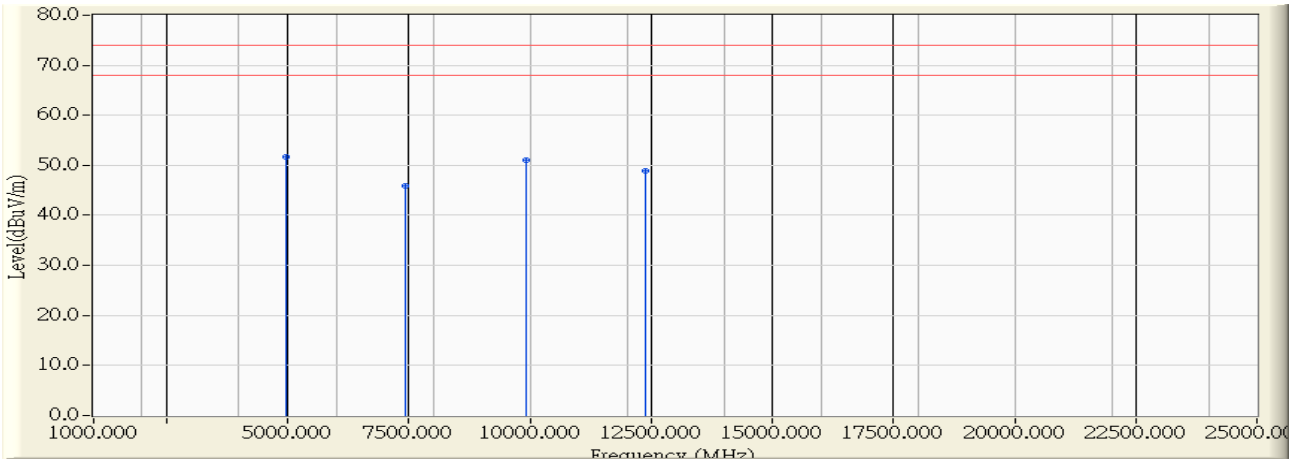


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4960.010	-0.202	53.561	53.359	-0.641	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2014/11/05 - 20:54**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : SALUT	**Note : Mode 2: Transmit (π/4DQPSK)-Power by PC 2480MHz**

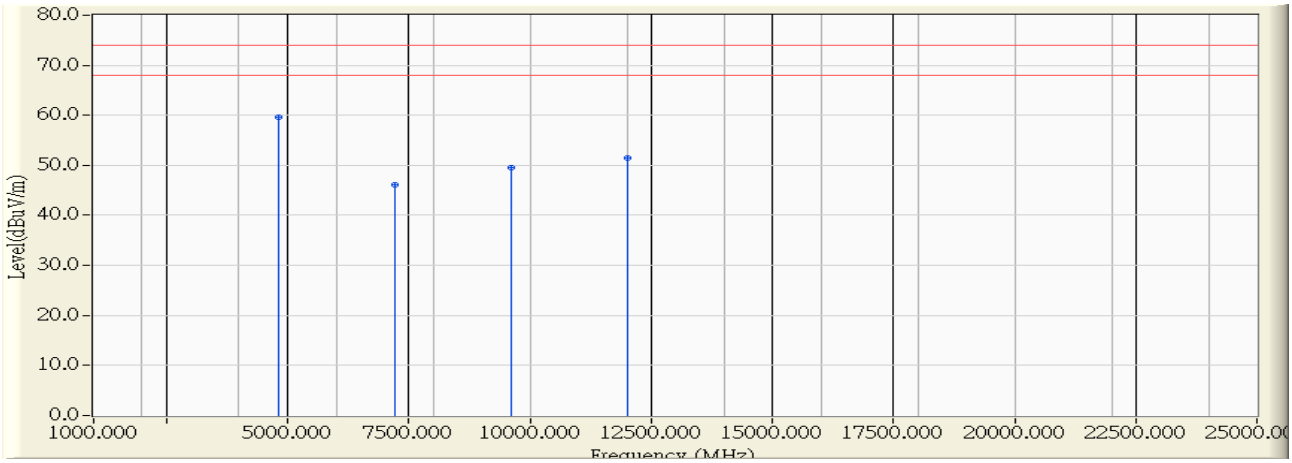


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4959.720	-0.202	51.940	51.737	-22.263	74.000	PEAK
2		7440.310	5.961	39.890	45.851	-28.149	74.000	PEAK
3		9916.960	11.187	39.950	51.137	-22.863	74.000	PEAK
4		12394.800	10.947	37.870	48.817	-25.183	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2014/11/05 - 21:05**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : SALUT	**Note : Mode 3: Transmit (8DQPSK)-Power by PC 2402MHz**

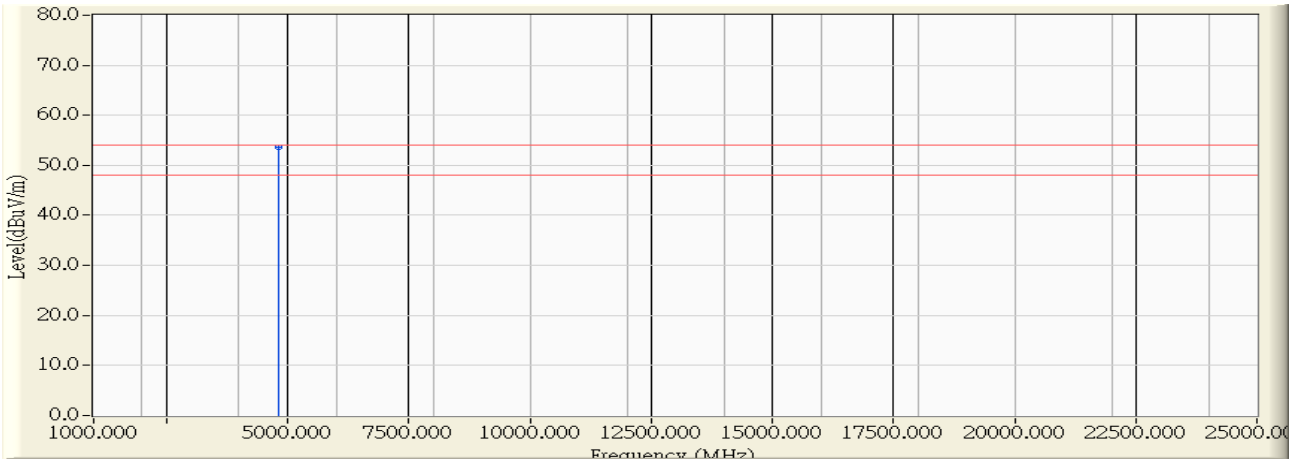


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4804.370	-0.581	60.260	59.679	-14.321	74.000	PEAK
2		7206.560	5.455	40.680	46.135	-27.865	74.000	PEAK
3		9616.720	9.243	40.250	49.493	-24.507	74.000	PEAK
4		12004.580	11.125	40.310	51.435	-22.565	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2014/11/05 - 21:06**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : SALUT	**Note : Mode 3: Transmit (8DQPSK)-Power by PC 2402MHz**

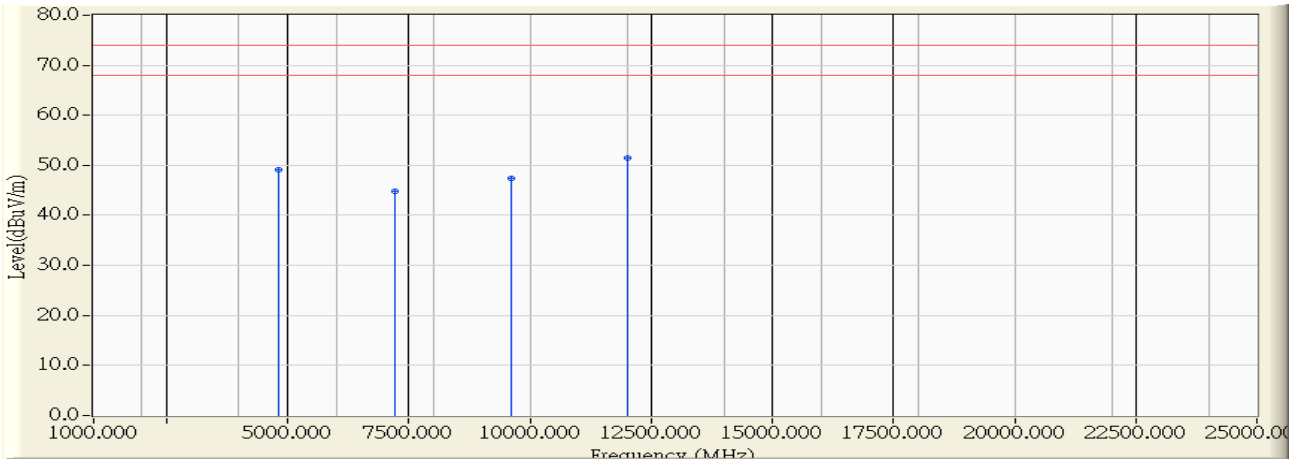


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4804.060	-0.581	54.232	53.650	-0.350	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2014/11/06 - 22:31**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : SALUT	**Note : Mode 3: Transmit (8DQPSK)-Power by PC 2402MHz**

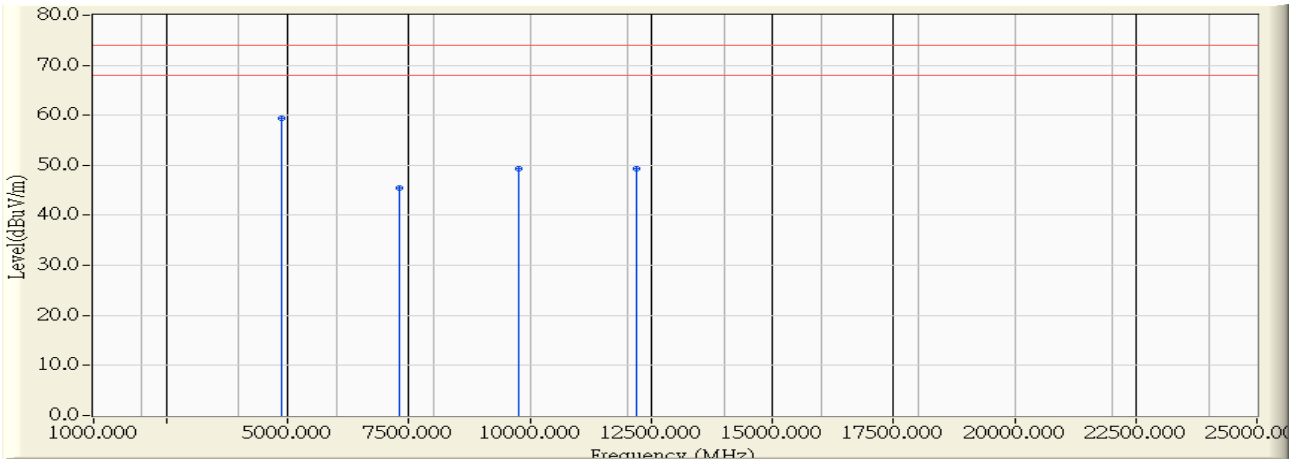


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4804.350	-0.581	49.690	49.108	-24.892	74.000	PEAK
2		7206.320	5.455	39.410	44.865	-29.135	74.000	PEAK
3		9600.790	9.141	38.180	47.320	-26.680	74.000	PEAK
4	*	12004.580	11.125	40.310	51.435	-22.565	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2014/11/05 - 21:27**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : SALUT	**Note : Mode 3: Transmit (8DQPSK)-Power by PC 2441MHz**

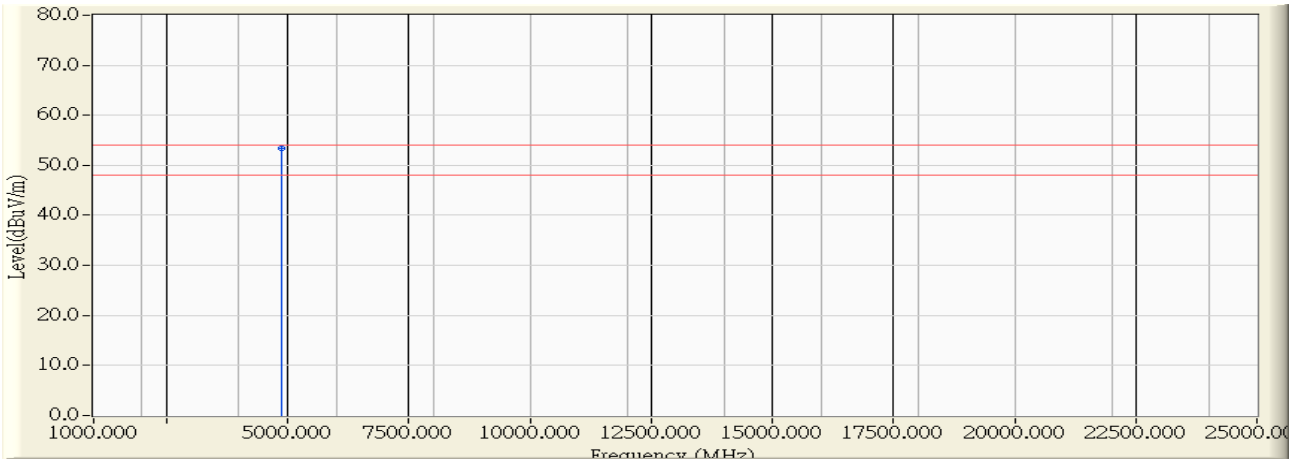


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4882.020	-0.392	59.860	59.468	-14.532	74.000	PEAK
2		7322.800	5.707	39.850	45.557	-28.443	74.000	PEAK
3		9771.630	10.246	39.060	49.306	-24.694	74.000	PEAK
4		12195.010	11.038	38.320	49.358	-24.642	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2014/11/05 - 21:22**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : SALUT	**Note : Mode 3: Transmit (8DQPSK)-Power by PC 2441MHz**

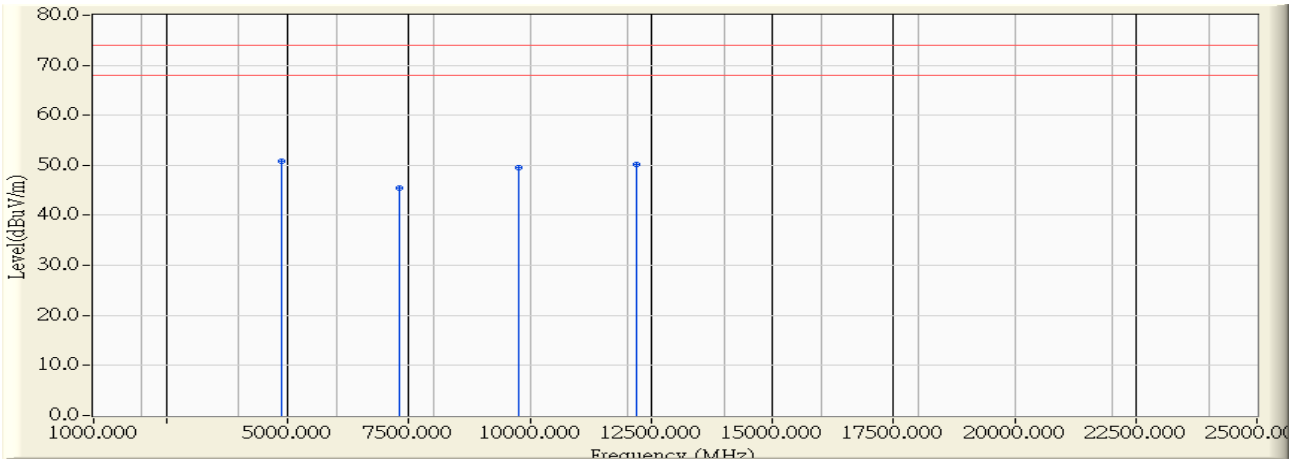


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4882.020	-0.392	53.770	53.378	-0.622	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2014/11/05 - 21:36**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : SALUT	**Note : Mode 3: Transmit (8DQPSK)-Power by PC 2441MHz**

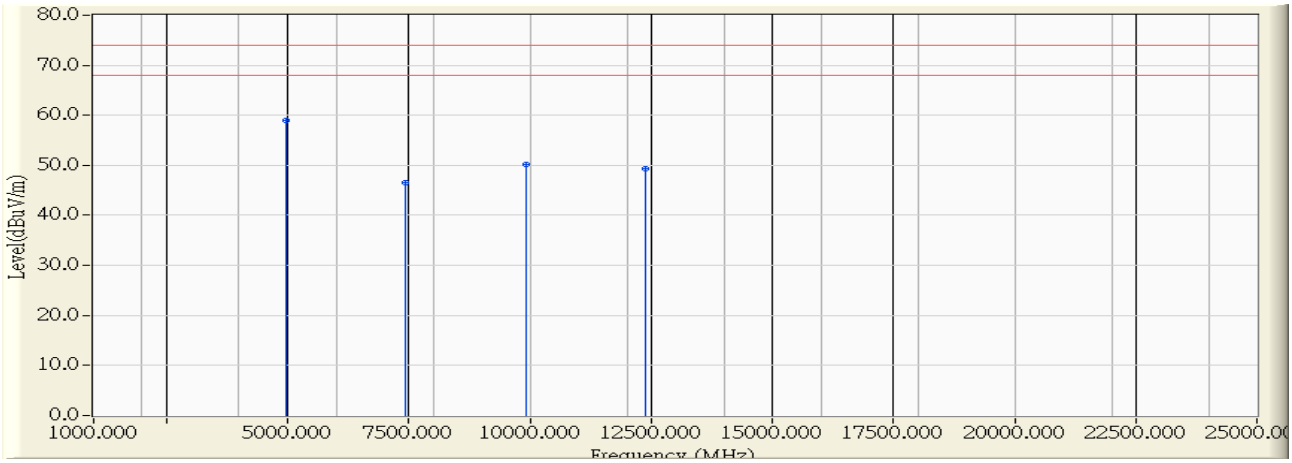


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4881.350	-0.393	51.310	50.916	-23.084	74.000	PEAK
2		7321.000	5.703	39.770	45.473	-28.527	74.000	PEAK
3		9772.410	10.251	39.260	49.511	-24.489	74.000	PEAK
4		12203.610	11.034	39.090	50.124	-23.876	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2014/11/05 - 21:39**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : SALUT	**Note : Mode 3: Transmit (8DQPSK)-Power by PC 2480MHz**

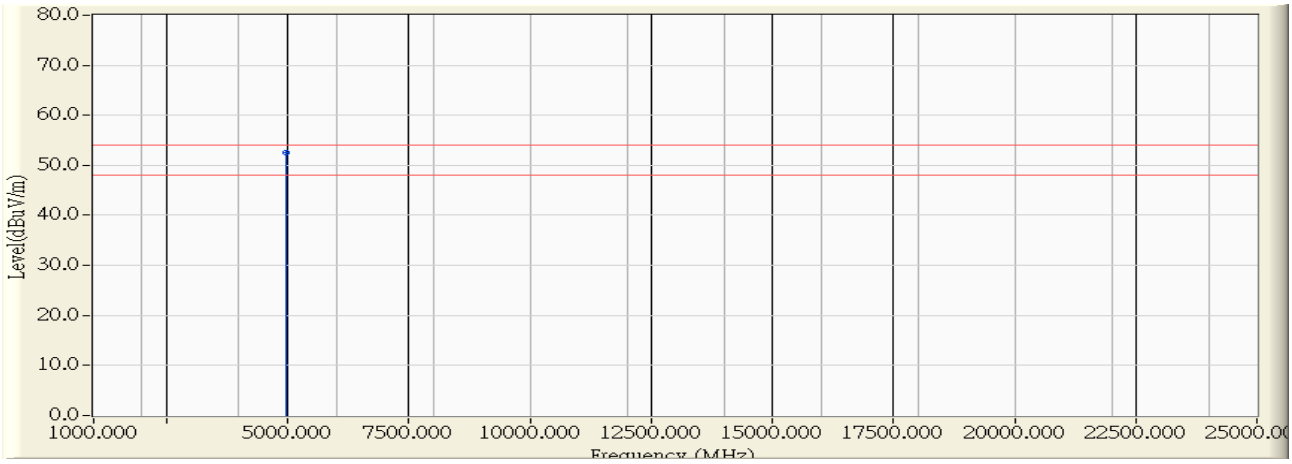


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4959.340	-0.203	59.260	59.056	-14.944	74.000	PEAK
2		7438.660	5.956	40.490	46.447	-27.553	74.000	PEAK
3		9923.520	11.230	38.910	50.140	-23.860	74.000	PEAK
4		12396.170	10.947	38.400	49.346	-24.654	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2014/11/05 - 21:40**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : SALUT	**Note : Mode 3: Transmit (8DQPSK)-Power by PC 2480MHz**

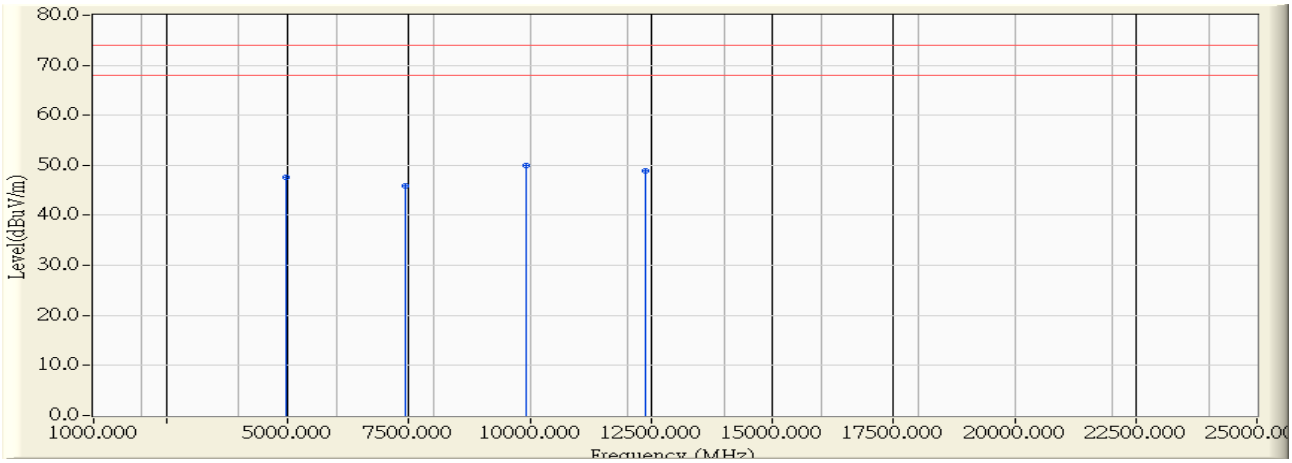


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4959.990	-0.202	52.730	52.528	-1.472	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

Site : CB1	**Time : 2014/11/05 - 21:50**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : SALUT	**Note : Mode 3: Transmit (8DQPSK)-Power by PC 2480MHz**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4959.640	-0.202	47.720	47.517	-26.483	74.000	PEAK
2		7435.810	5.951	40.050	46.001	-27.999	74.000	PEAK
3	*	9928.830	11.264	38.670	49.934	-24.066	74.000	PEAK
4		12396.860	10.947	37.930	48.876	-25.124	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

5. RF antenna conducted test

5.1. Test Equipment

The following test equipment is used during the test:

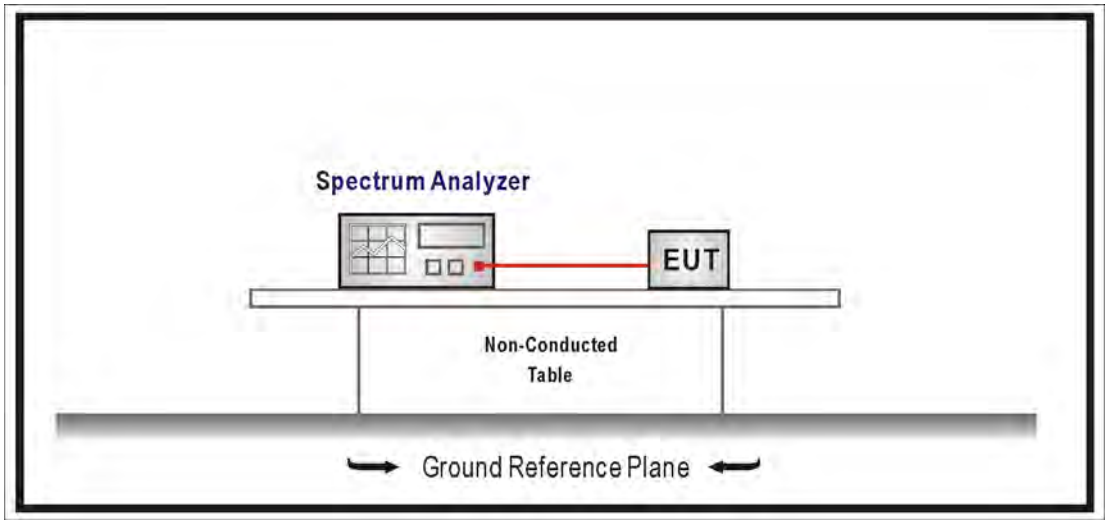
RF antenna conducted test / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2015/07/14

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

5.2. Test Setup

RF Conducted Measurement:



5.3. Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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 an RF conducted or radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.4. Test Procedure

The EUT was setup according to ANSI C63.10:2013 and tested according to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements

Set RBW = 100 kHz, Set VBW> RBW, scan up through 10th harmonic.

5.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2013

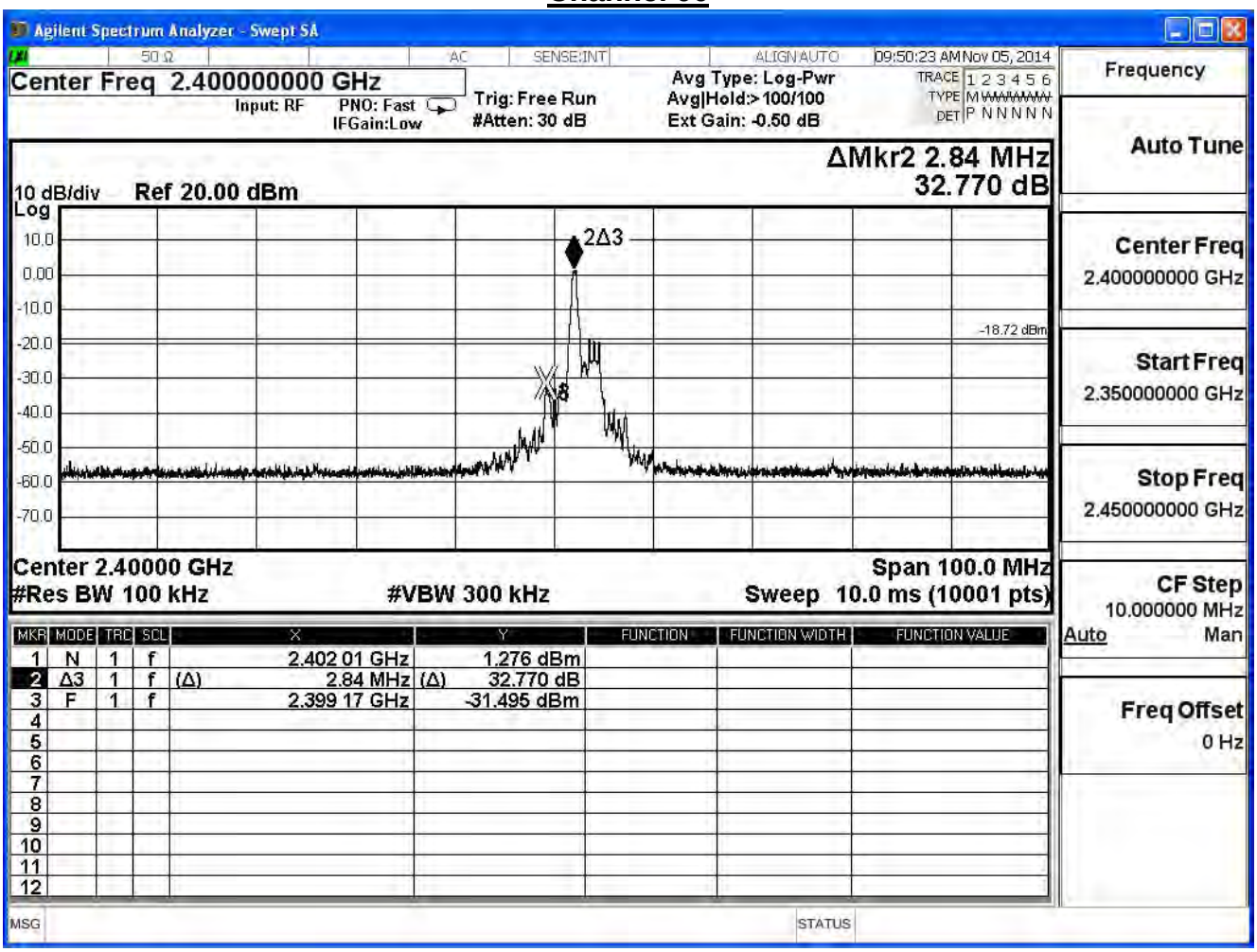
5.6. Test Result

Product	SALUT		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit (GFSK)-Power by PC		
Date of Test	2014/11/05	Test Site	SR7

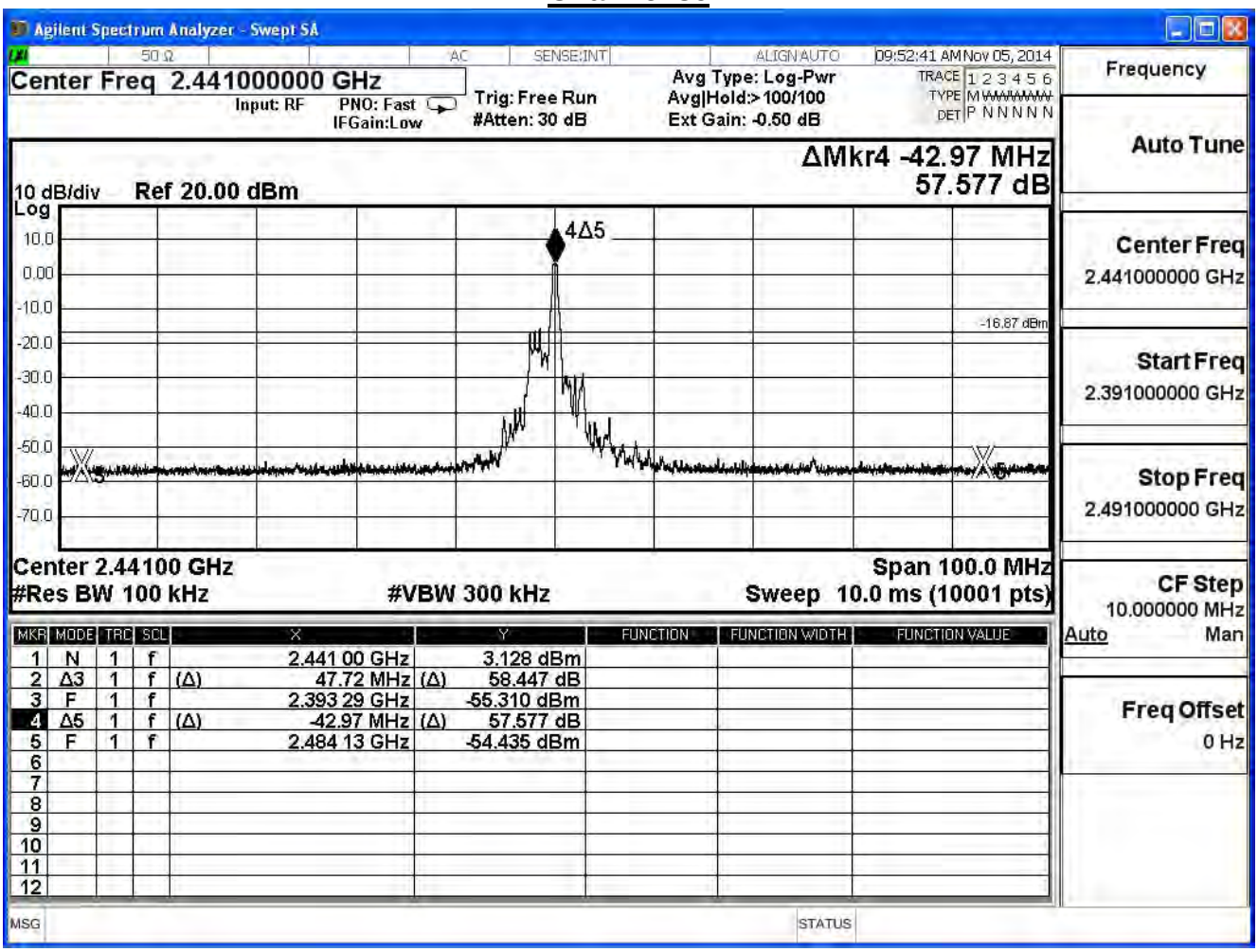
GFSK

Channel No.	Frequency (MHz)	Measurement Level (dB)	Required Limit (dBc)	Result
00	2402	32.770	≧20	Pass
39	2441	57.577	≧20	Pass
78	2480	45.794	≧20	Pass

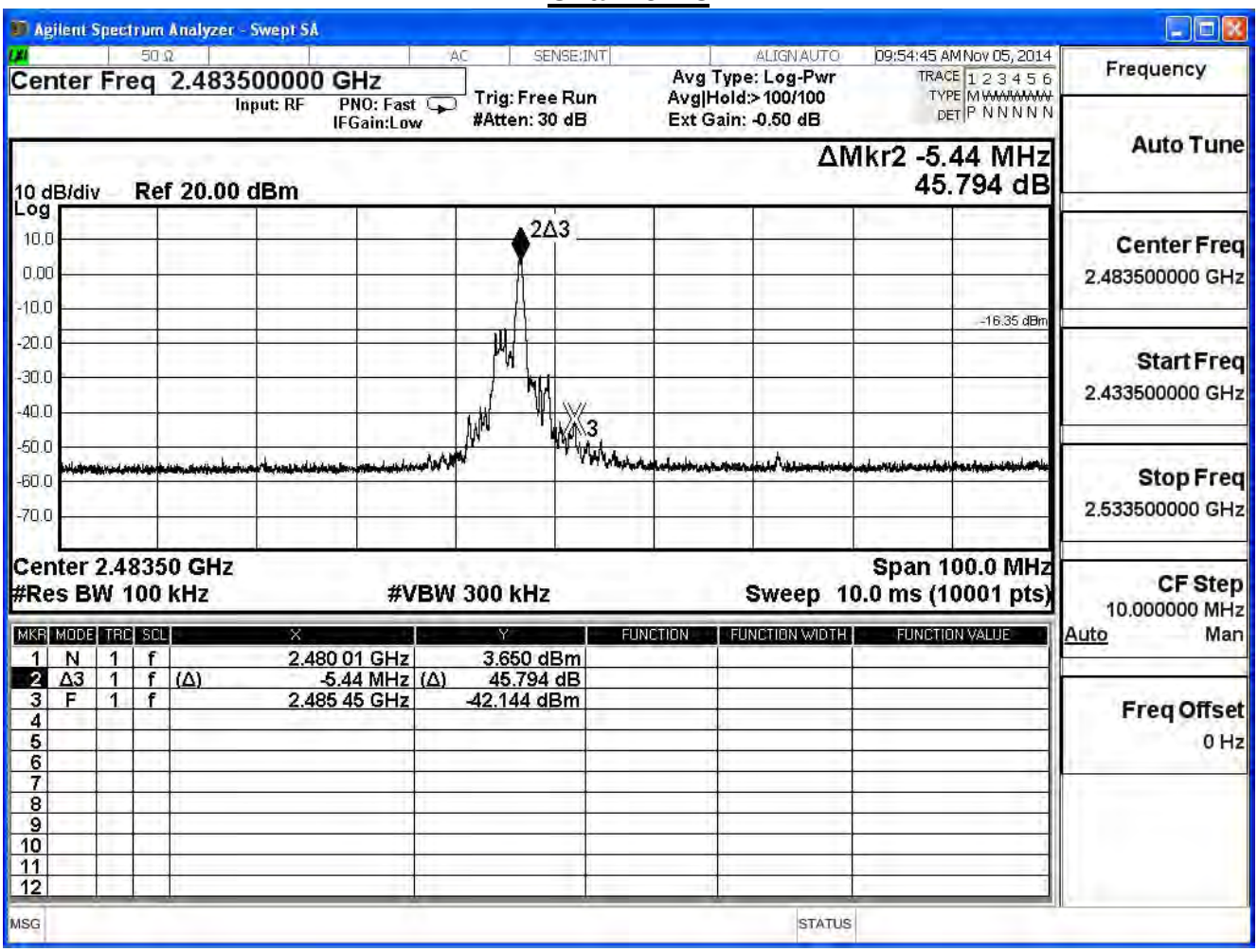
Channel 00



Channel 39


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
09:52:41 AM Nov 05, 2014
Center Freq 2.441000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -0.50 dB
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
ΔMkr4 -42.97 MHz
57.577 dB
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
4Δ5
-16.87 dBm
Center 2.44100 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.0 ms (10001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.441 00 GHz 3.128 dBm
2 Δ3 1 f (Δ) 47.72 MHz (Δ) 58.447 dB
3 F 1 f 2.393 29 GHz -55.310 dBm
4 Δ5 1 f (Δ) -42.97 MHz (Δ) 57.577 dB
5 F 1 f 2.484 13 GHz -54.435 dBm
6
7
8
9
10
11
12
Frequency
Auto Tune
Center Freq
2.441000000 GHz
Start Freq
2.391000000 GHz
Stop Freq
2.491000000 GHz
CF Step
10.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Channel 78

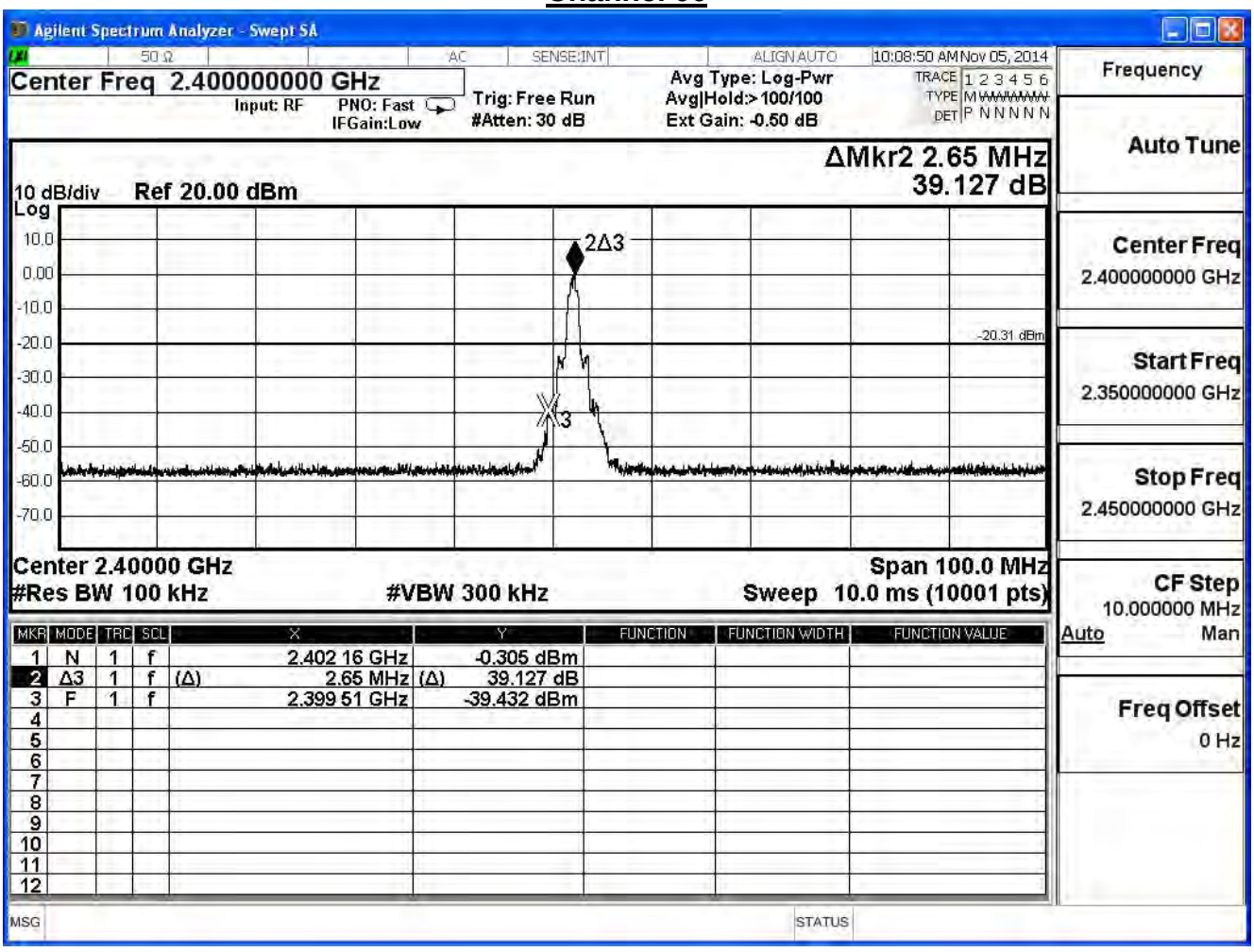

Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
09:54:45 AM Nov 05, 2014
Center Freq 2.483500000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -0.50 dB
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
ΔMkr2 -5.44 MHz
45.794 dB
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
2Δ3
3
-16.35 dBm
Center 2.48350 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.0 ms (10001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.480 01 GHz 3.650 dBm
2 Δ3 1 f (Δ) -5.44 MHz (Δ) 45.794 dB
3 F 1 f 2.485 45 GHz -42.144 dBm
Frequency
Auto Tune
Center Freq
2.483500000 GHz
Start Freq
2.433500000 GHz
Stop Freq
2.533500000 GHz
CF Step
10.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Product	SALUT		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: Transmit (π/4DQPSK)-Power by PC		
Date of Test	2014/11/05	Test Site	SR7

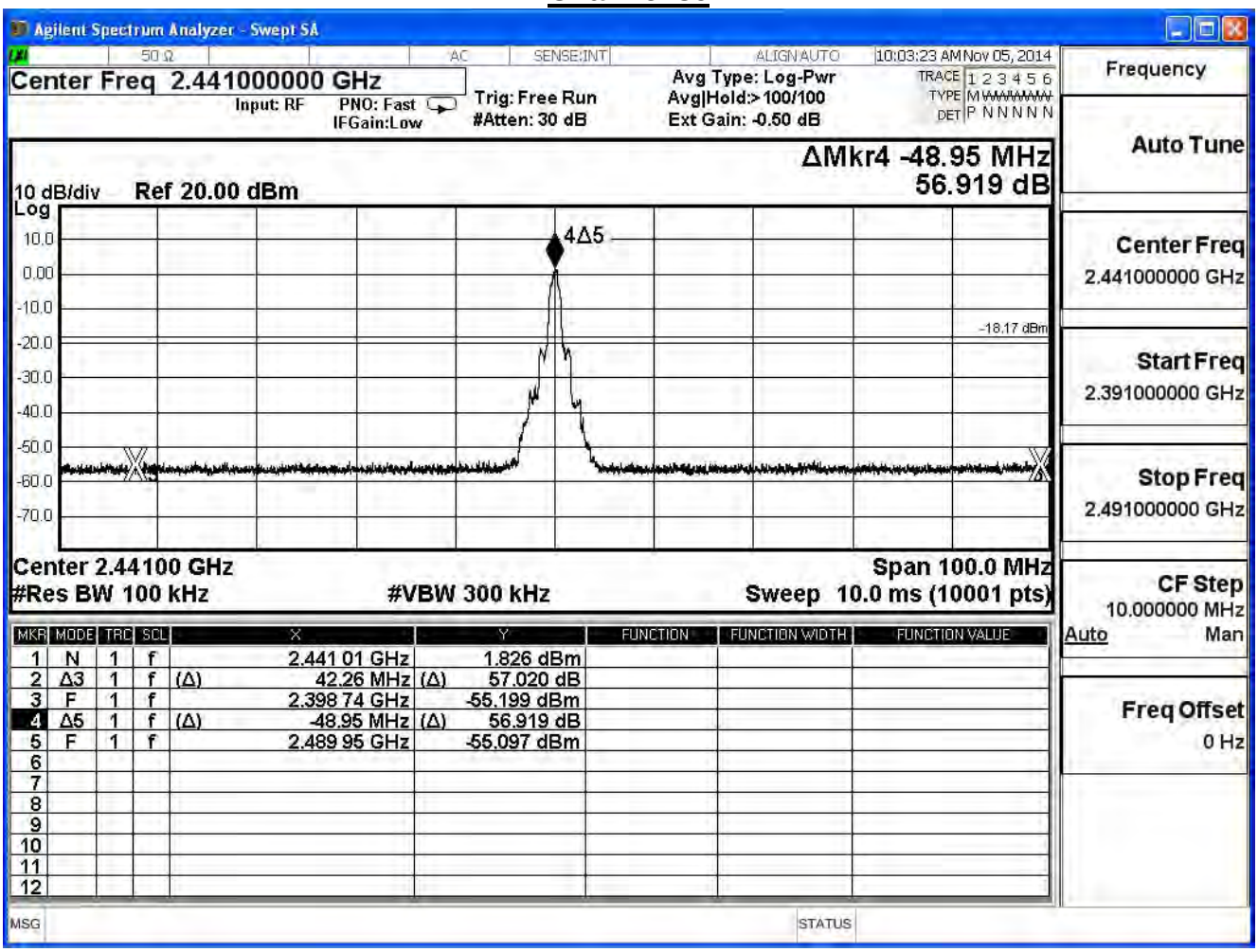
π/4-DQPSK

Channel No.	Frequency (MHz)	Measurement Level (dB)	Required Limit (dBc)	Result
00	2402	39.127	≧20	Pass
39	2441	56.919	≧20	Pass
78	2480	55.593	≧20	Pass

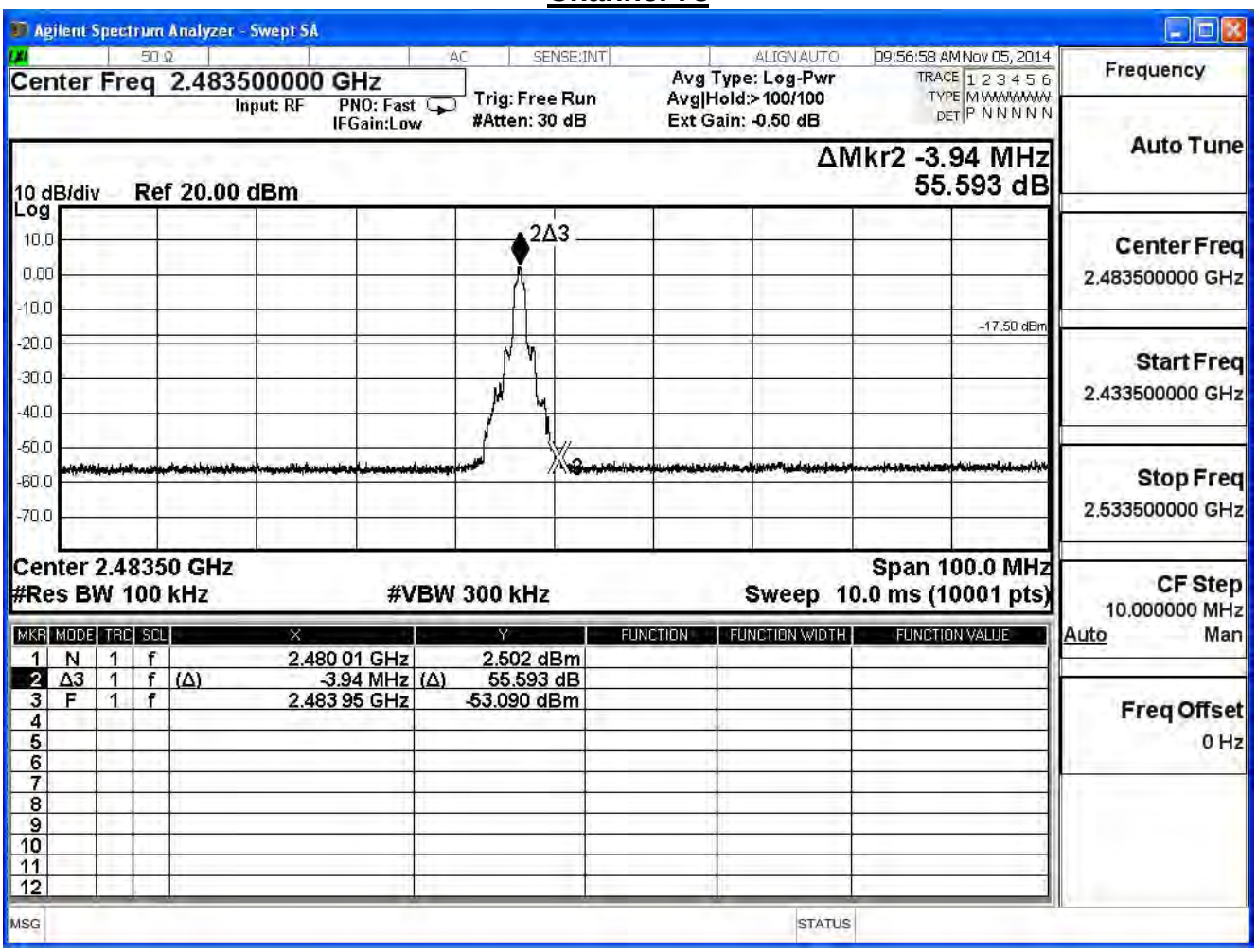
Channel 00



Channel 39


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
10:03:23 AM Nov 05, 2014
Center Freq 2.441000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -0.50 dB
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
ΔMkr4 -48.95 MHz
56.919 dB
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
4Δ5
-18.17 dBm
Center 2.44100 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.0 ms (10001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.441 01 GHz 1.826 dBm
2 Δ3 1 f (Δ) 42.26 MHz (Δ) 57.020 dB
3 F 1 f 2.398 74 GHz -55.199 dBm
4 Δ5 1 f (Δ) -48.95 MHz (Δ) 56.919 dB
5 F 1 f 2.489 95 GHz -55.097 dBm
6
7
8
9
10
11
12
MSG
STATUS
Frequency
Auto Tune
Center Freq
2.441000000 GHz
Start Freq
2.391000000 GHz
Stop Freq
2.491000000 GHz
CF Step
10.000000 MHz
Auto
Man
Freq Offset
0 Hz

Channel 78

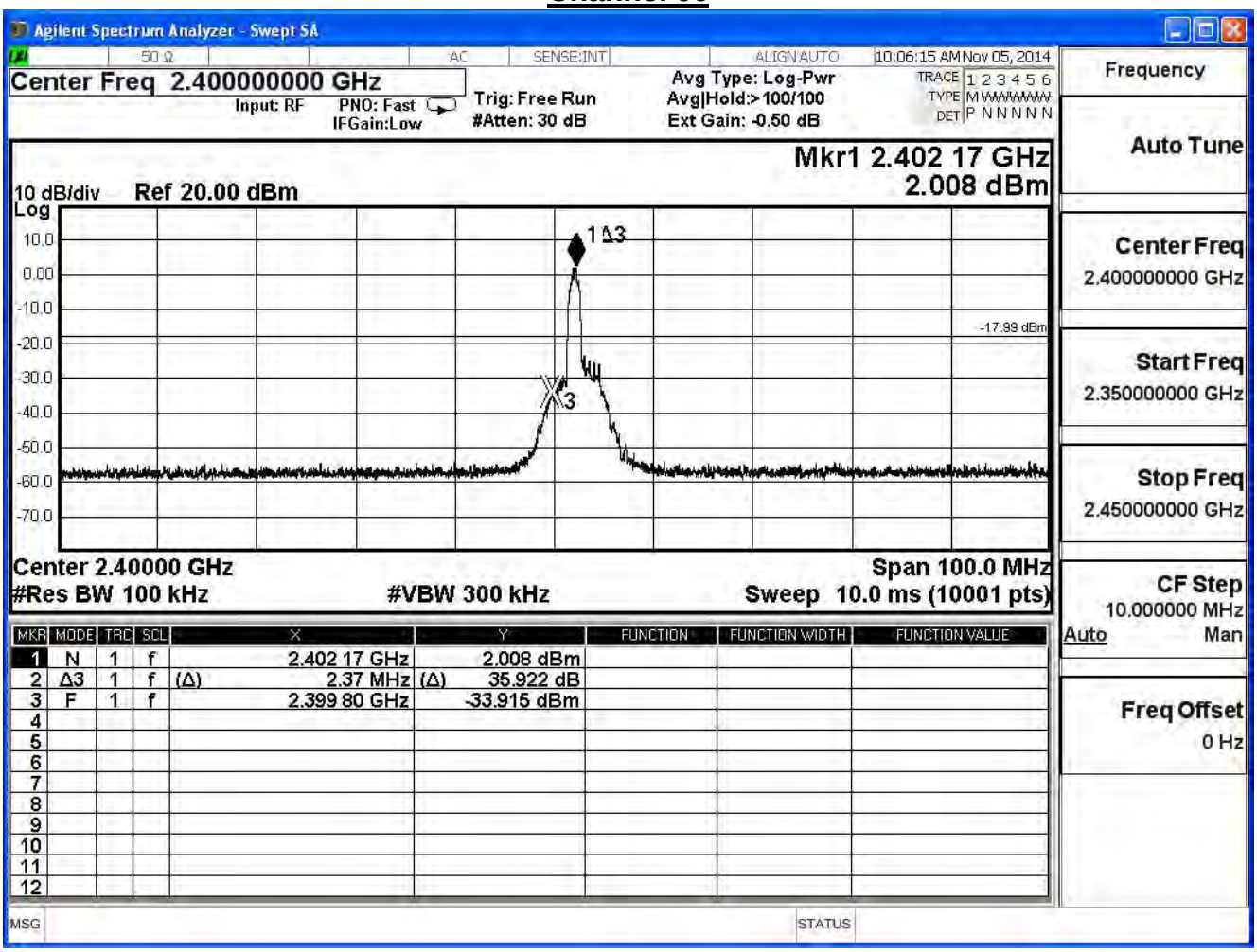

Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
09:56:58 AM Nov 05, 2014
Center Freq 2.483500000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -0.50 dB
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
ΔMkr2 -3.94 MHz
55.593 dB
10 dB/div
Log
Ref 20.00 dBm
2Δ3
-17.50 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center 2.48350 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.0 ms (10001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.480 01 GHz 2.502 dBm
2 Δ3 1 f (Δ) -3.94 MHz (Δ) 55.593 dB
3 F 1 f 2.483 95 GHz -53.090 dBm
Frequency
Auto Tune
Center Freq
2.483500000 GHz
Start Freq
2.433500000 GHz
Stop Freq
2.533500000 GHz
CF Step
10.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Product	SALUT		
Test Item	RF antenna conducted test		
Test Mode	Mode 3: Transmit (8DQPSK)-Power by PC		
Date of Test	2014/11/05	Test Site	SR7

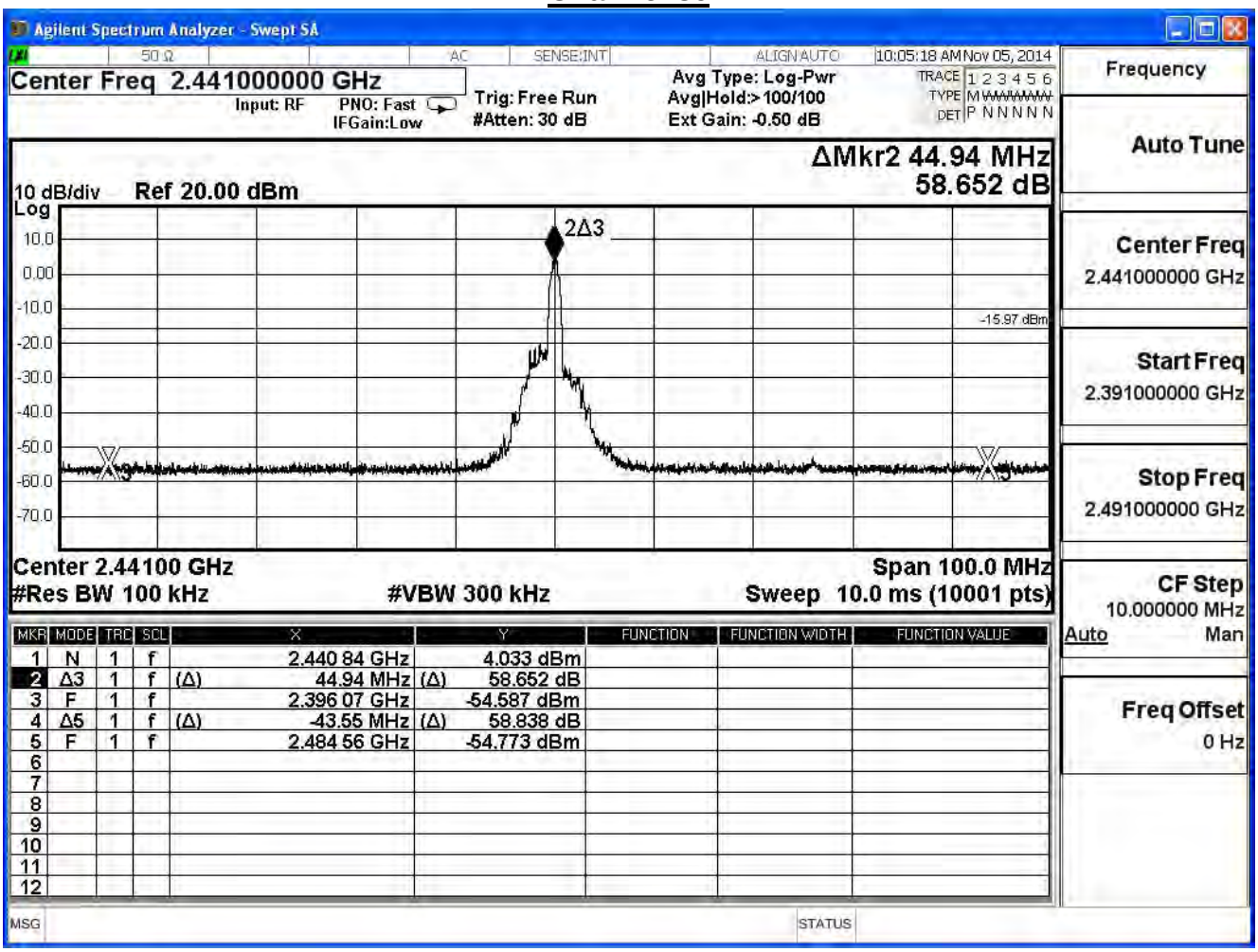
8DQPSK

Channel No.	Frequency (MHz)	Measurement Level (dB)	Required Limit (dBc)	Result
00	2402	35.922	≧20	Pass
39	2441	58.652	≧20	Pass
78	2480	53.006	≧20	Pass

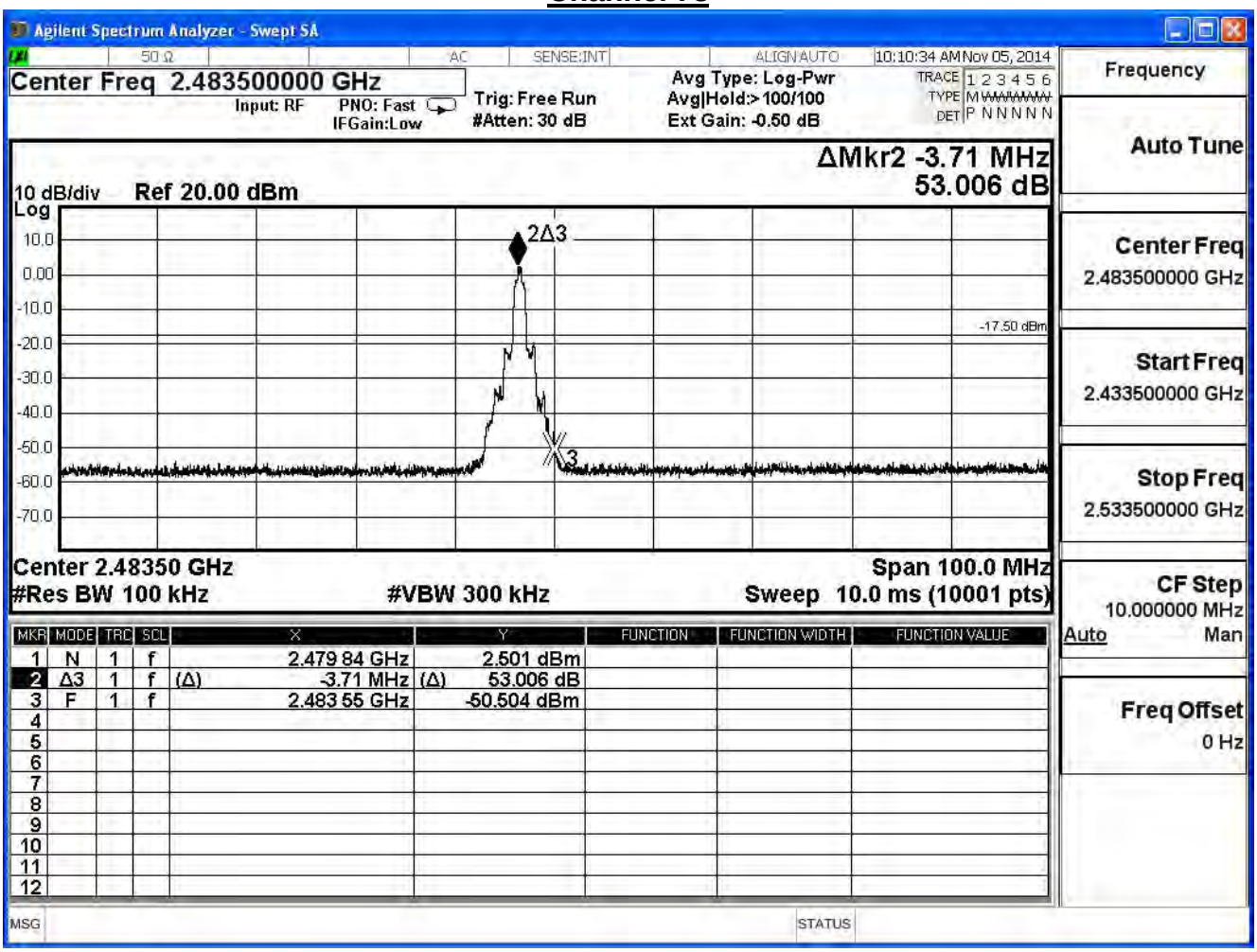
Channel 00



Channel 39

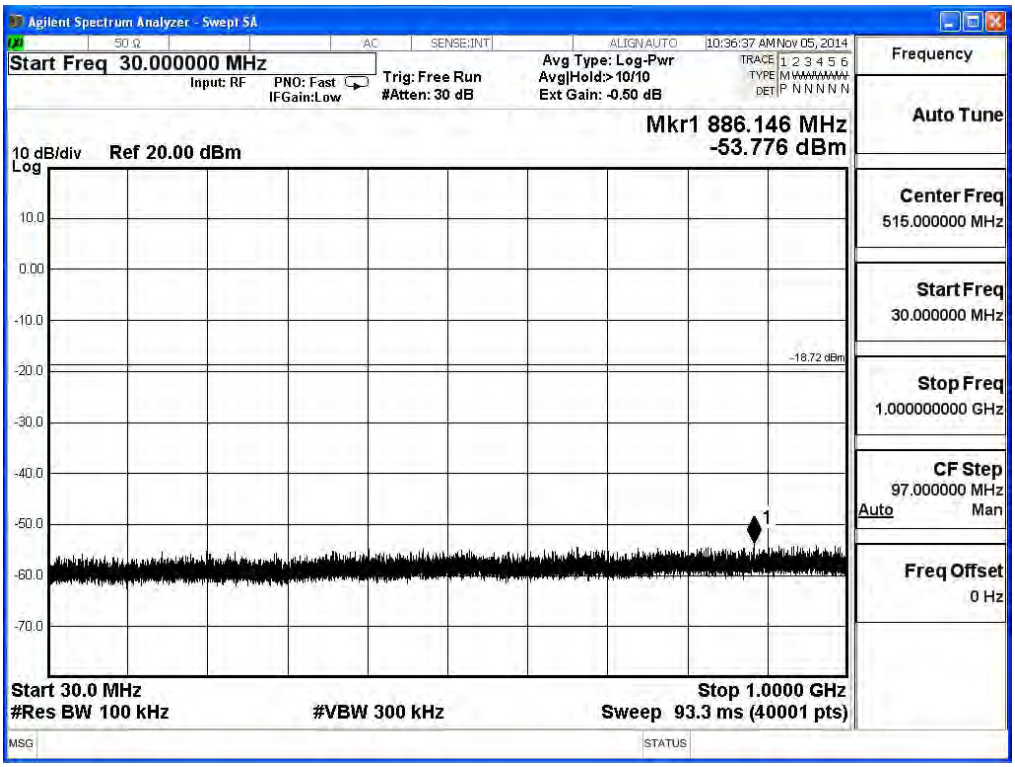

Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
10:05:18 AM Nov 05, 2014
Center Freq 2.441000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -0.50 dB
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
ΔMkr2 44.94 MHz
58.652 dB
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
2Δ3
-15.97 dBm
Center 2.44100 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.0 ms (10001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.440 84 GHz 4.033 dBm
2 Δ3 1 f (Δ) 44.94 MHz (Δ) 58.652 dB
3 F 1 f 2.396 07 GHz -54.587 dBm
4 Δ5 1 f (Δ) -43.55 MHz (Δ) 58.838 dB
5 F 1 f 2.484 56 GHz -54.773 dBm
6
7
8
9
10
11
12
MSG
STATUS
Frequency
Auto Tune
Center Freq
2.441000000 GHz
Start Freq
2.391000000 GHz
Stop Freq
2.491000000 GHz
CF Step
10.000000 MHz
Auto
Man
Freq Offset
0 Hz

Channel 78

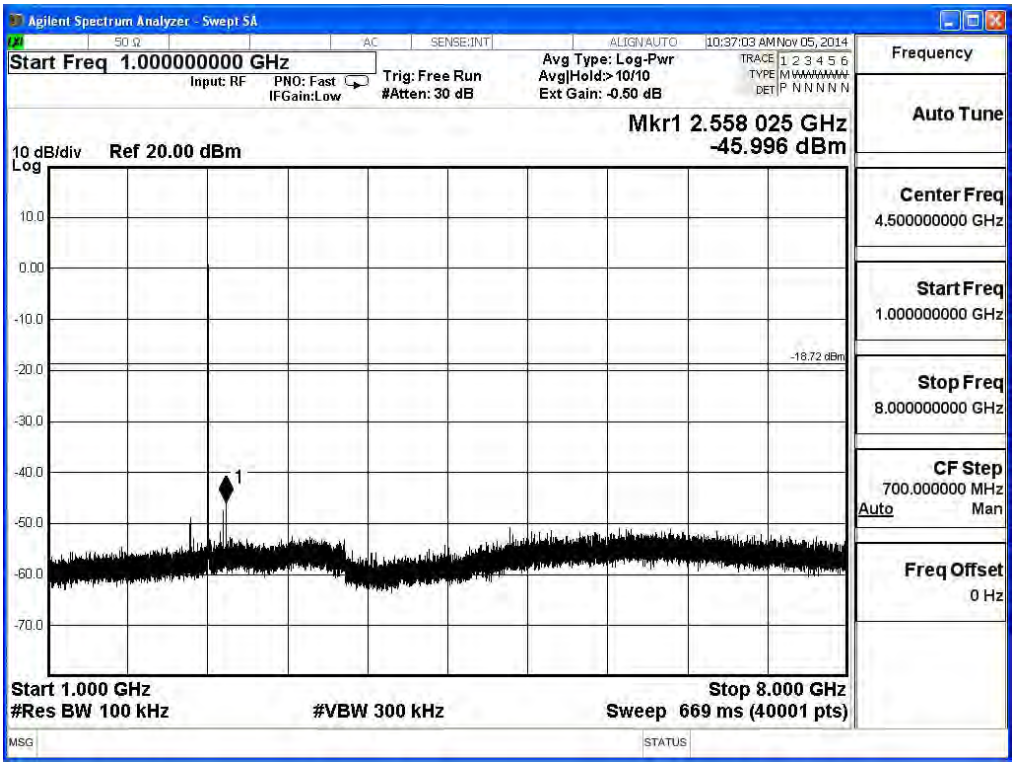

Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
10:10:34 AM Nov 05, 2014
Center Freq 2.483500000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -0.50 dB
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
ΔMkr2 -3.71 MHz
53.006 dB
10 dB/div
Ref 20.00 dBm
Log
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
2Δ3
-17.50 dBm
Center 2.48350 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.0 ms (10001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.479 84 GHz 2.501 dBm
2 Δ3 1 f (Δ) -3.71 MHz (Δ) 53.006 dB
3 F 1 f 2.483 55 GHz -50.504 dBm
Frequency
Auto Tune
Center Freq
2.483500000 GHz
Start Freq
2.433500000 GHz
Stop Freq
2.533500000 GHz
CF Step
10.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Product	SALUT		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit (GFSK)-Power by PC		
Date of Test	2014/11/05	Test Site	SR7

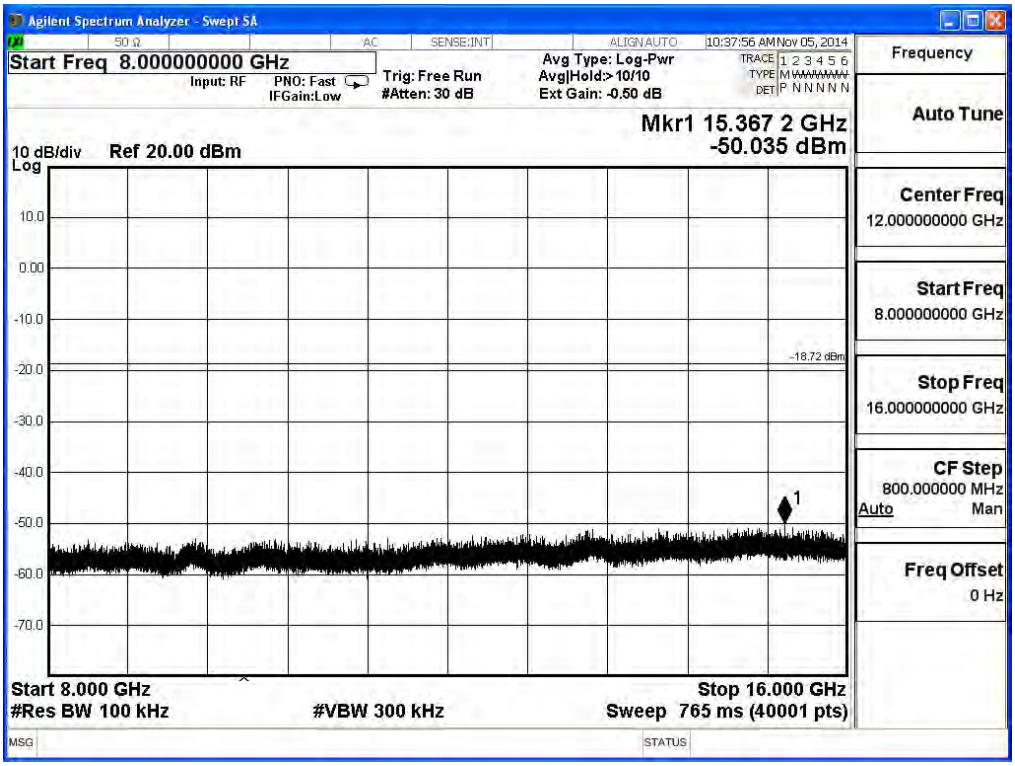
Channel 00 (30MHz-1GHz)- GFSK



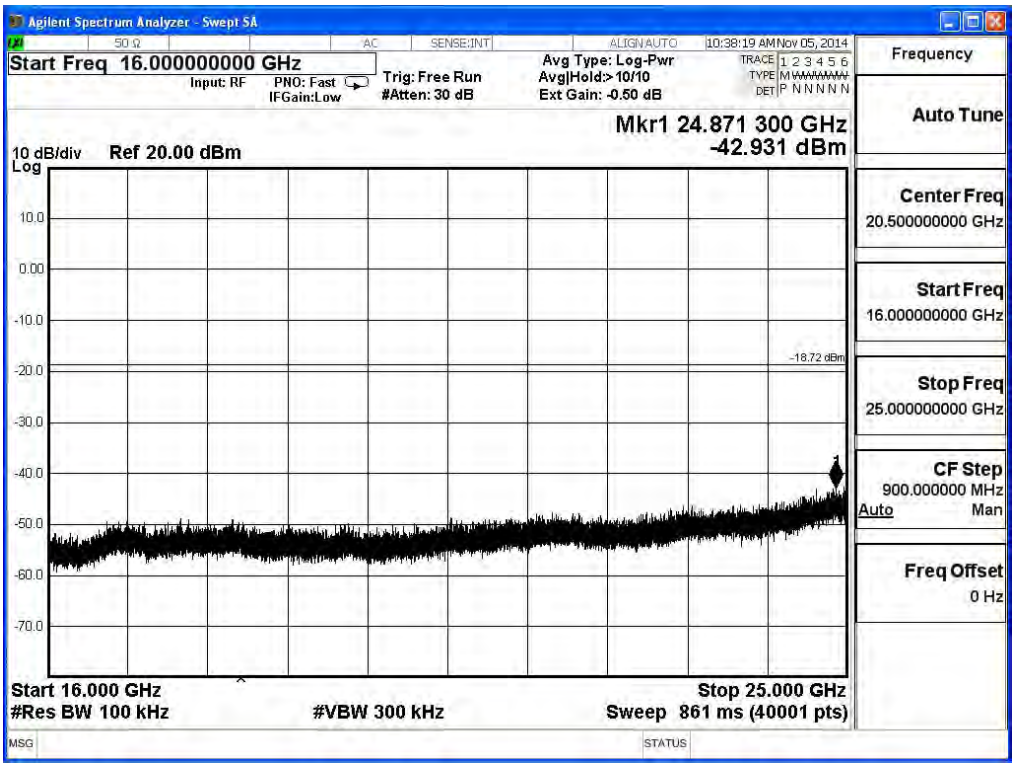
Channel 00 (1GHz~8GHz)- GFSK



Channel 00 (8GHz-16GHz)- GFSK

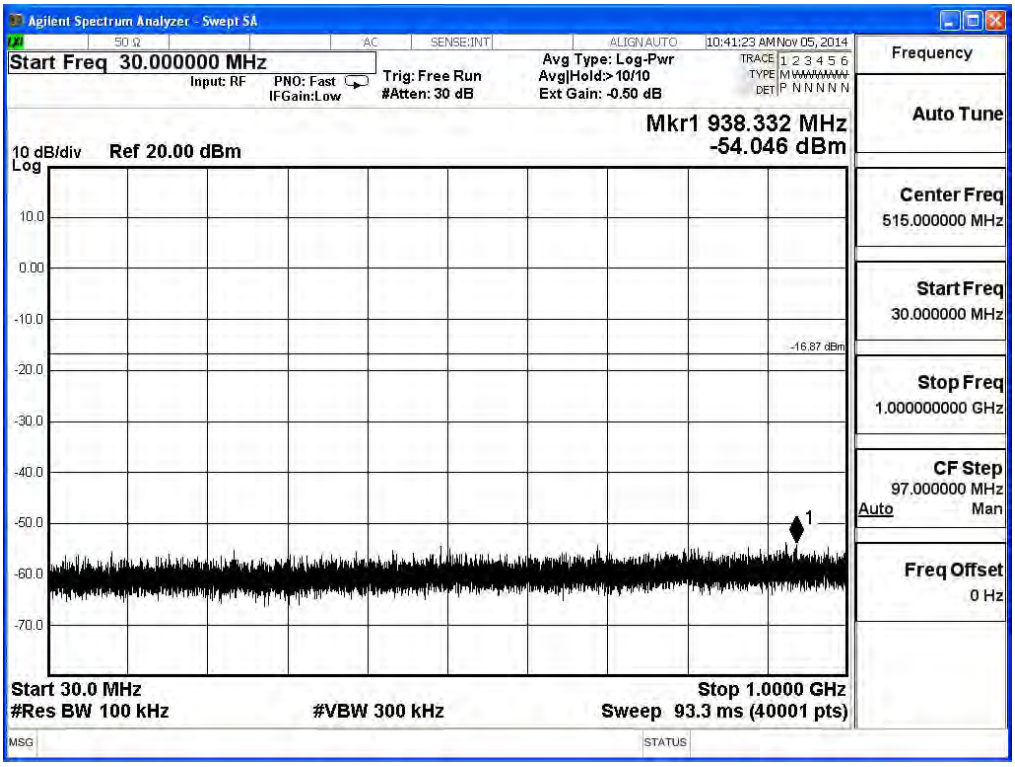


Channel 00 (16GHz~25GHz)- GFSK

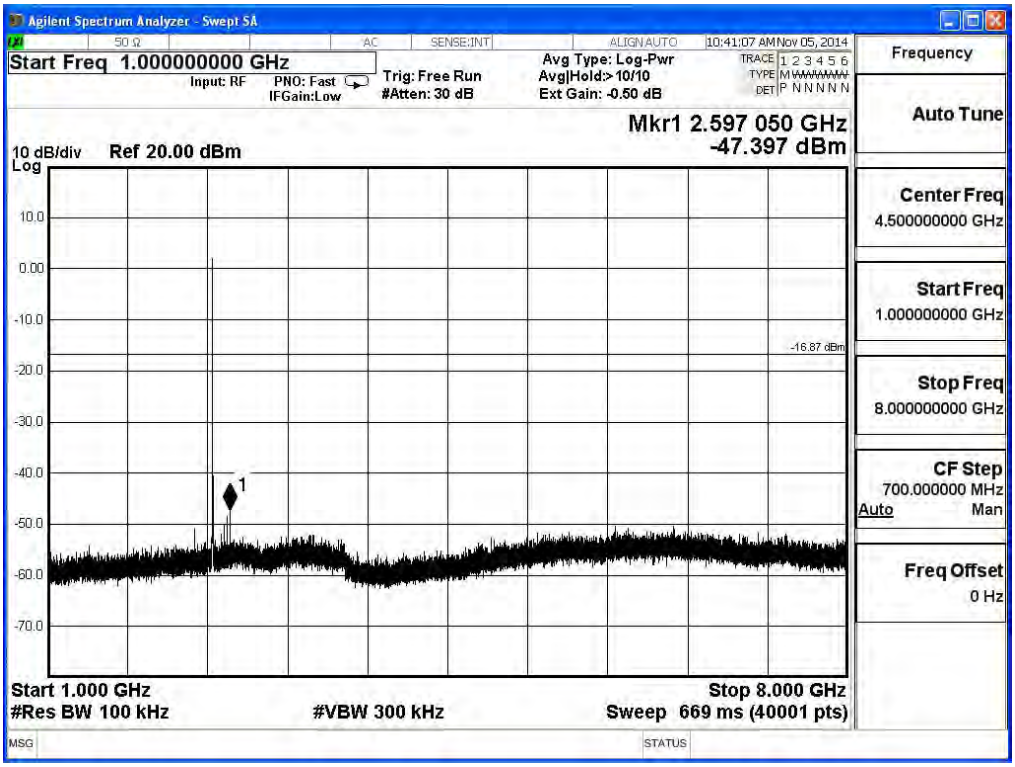


Product	SALUT		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit (GFSK)-Power by PC		
Date of Test	2014/11/05	Test Site	SR7

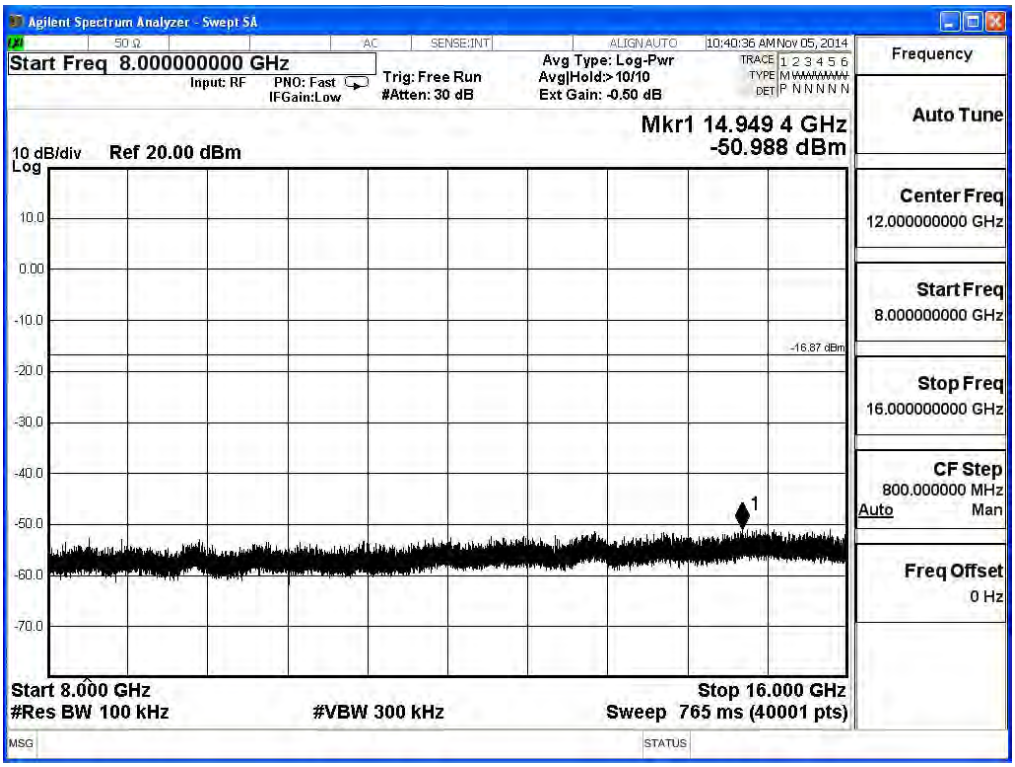
Channel 39 (30MHz-1GHz)- GFSK



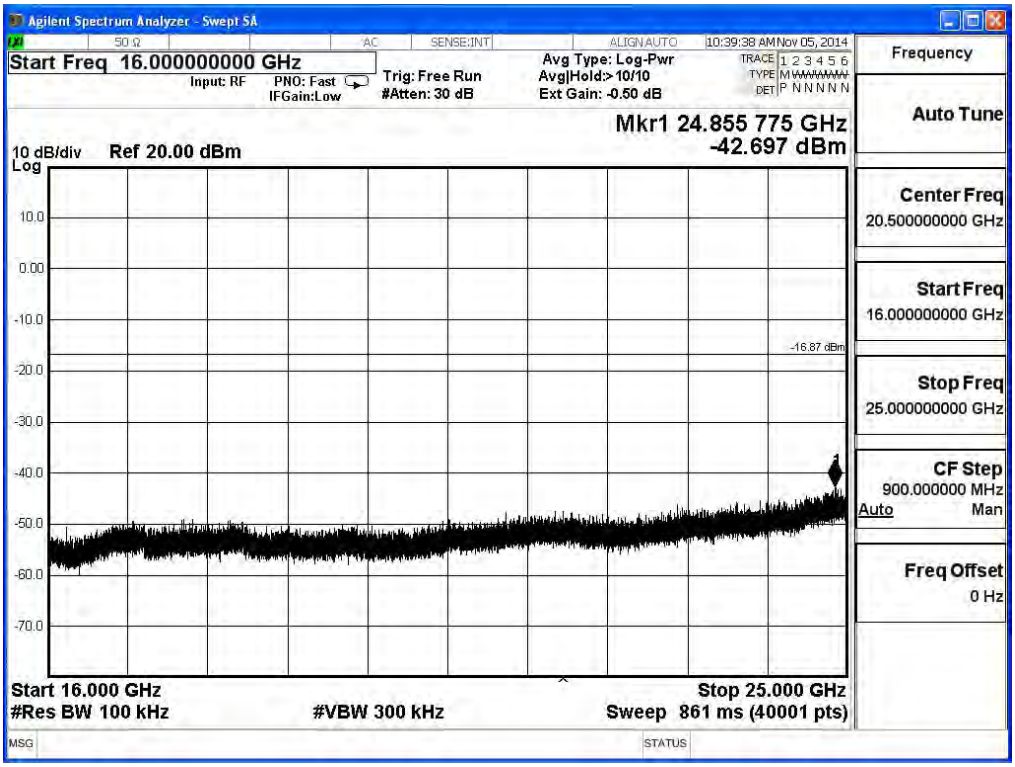
Channel 39 (1GHz~8GHz)- GFSK



Channel 39 (8GHz-16GHz)- GFSK

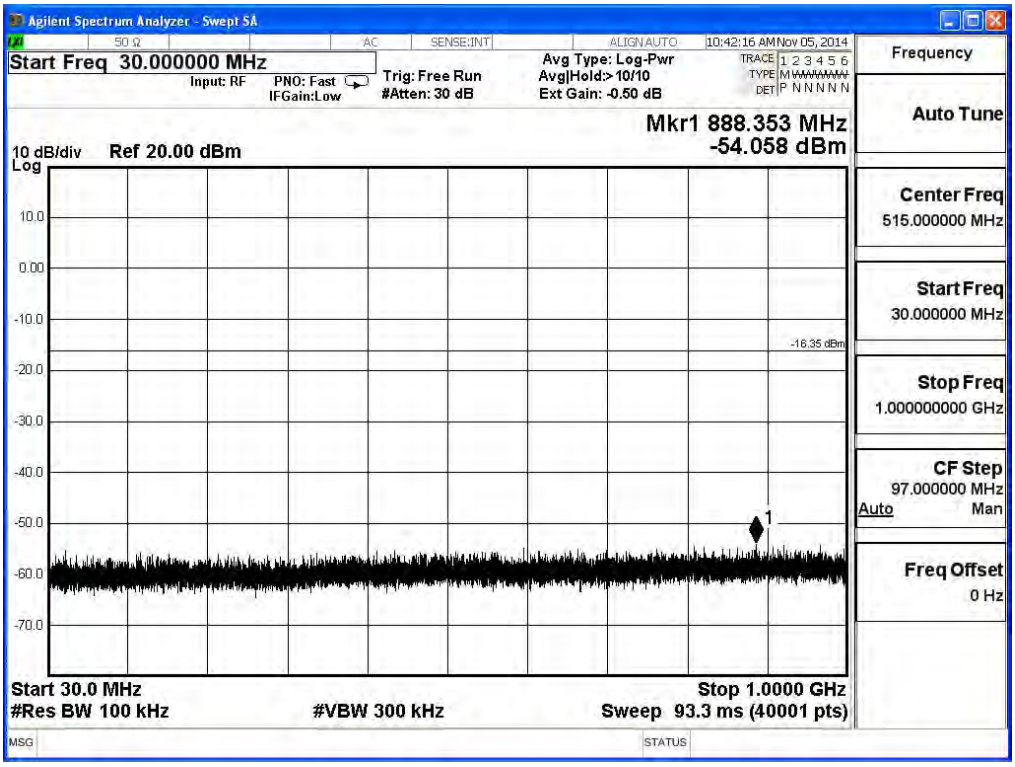


Channel 39 (16GHz~25GHz)- GFSK

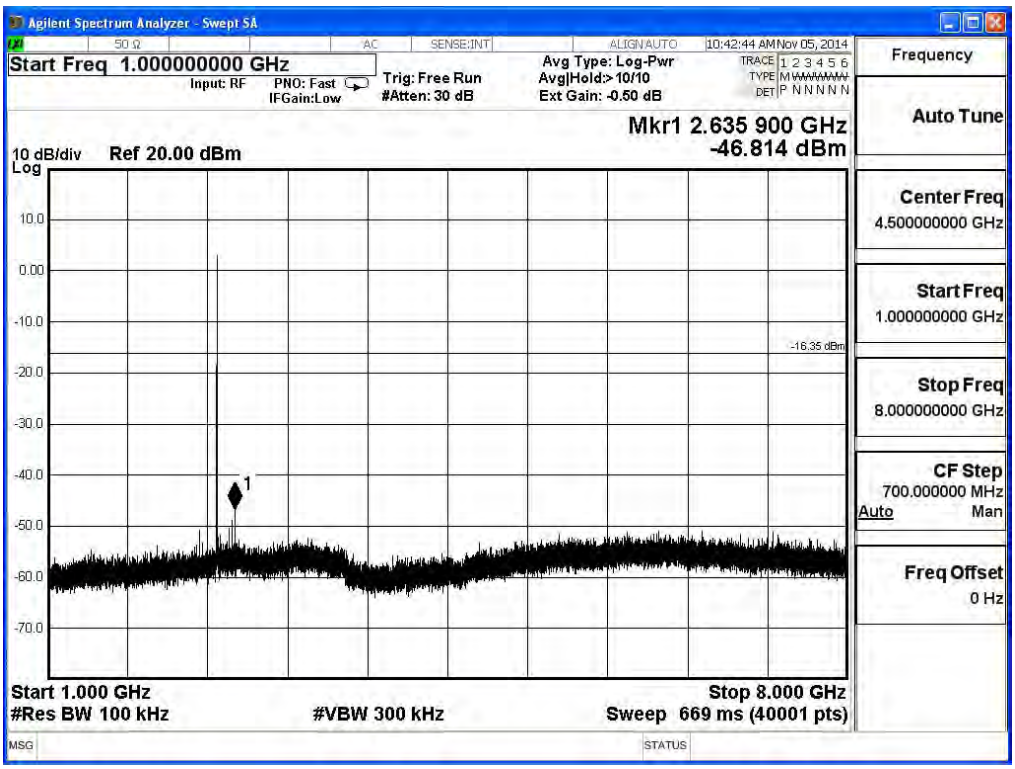


Product	SALUT		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit (GFSK)-Power by PC		
Date of Test	2014/11/05	Test Site	SR7

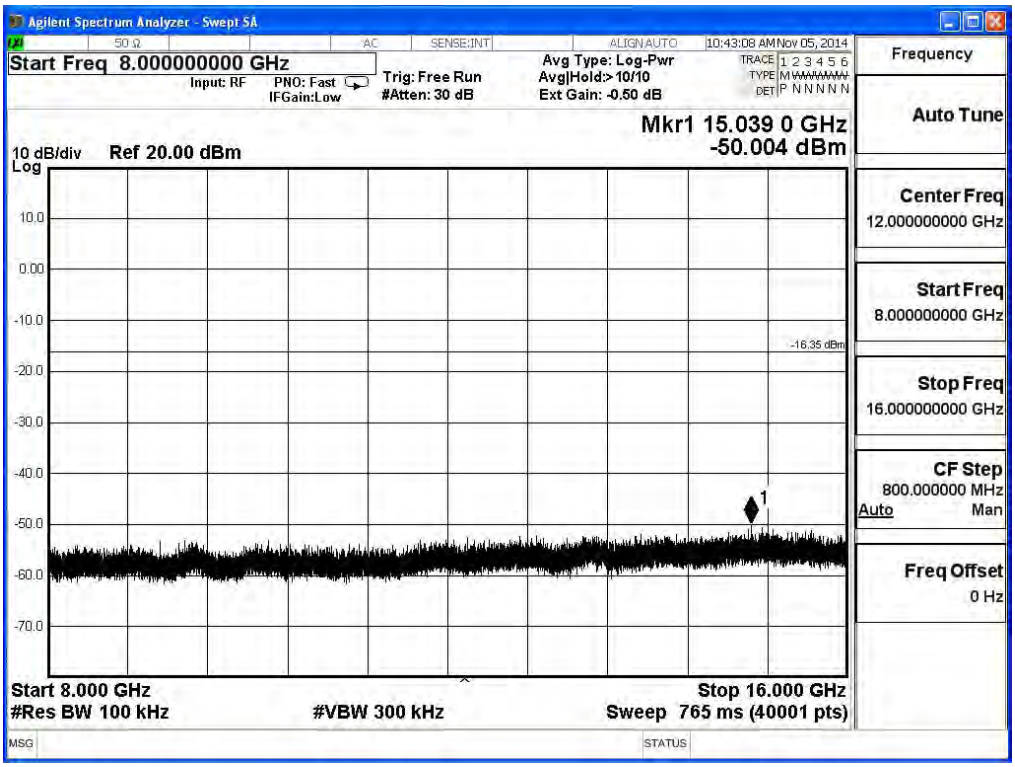
Channel 78 (30MHz-1GHz)- GFSK



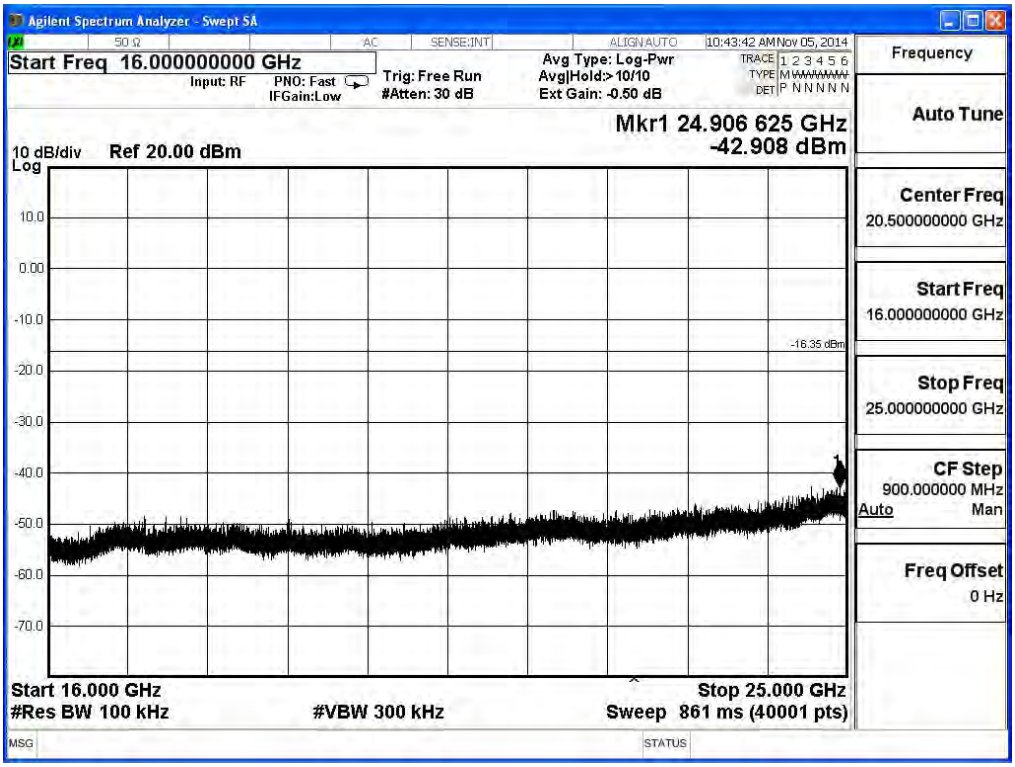
Channel 78 (1GHz~8GHz)- GFSK



Channel 78 (8GHz-16GHz)- GFSK

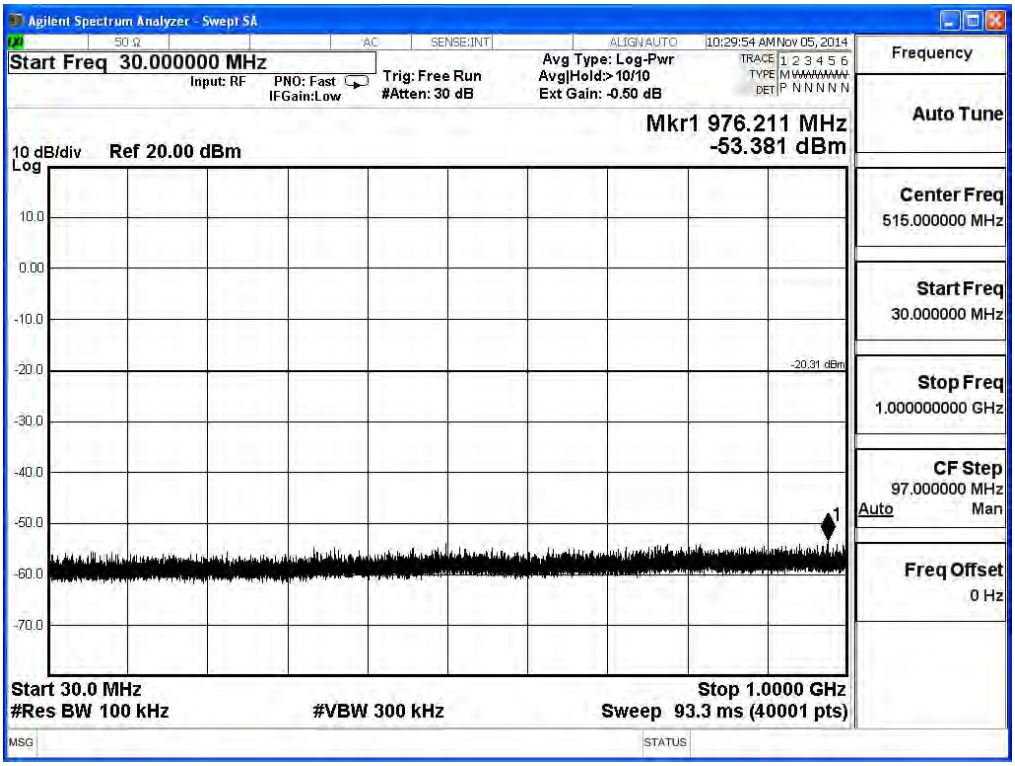


Channel 78 (16GHz~25GHz)- GFSK

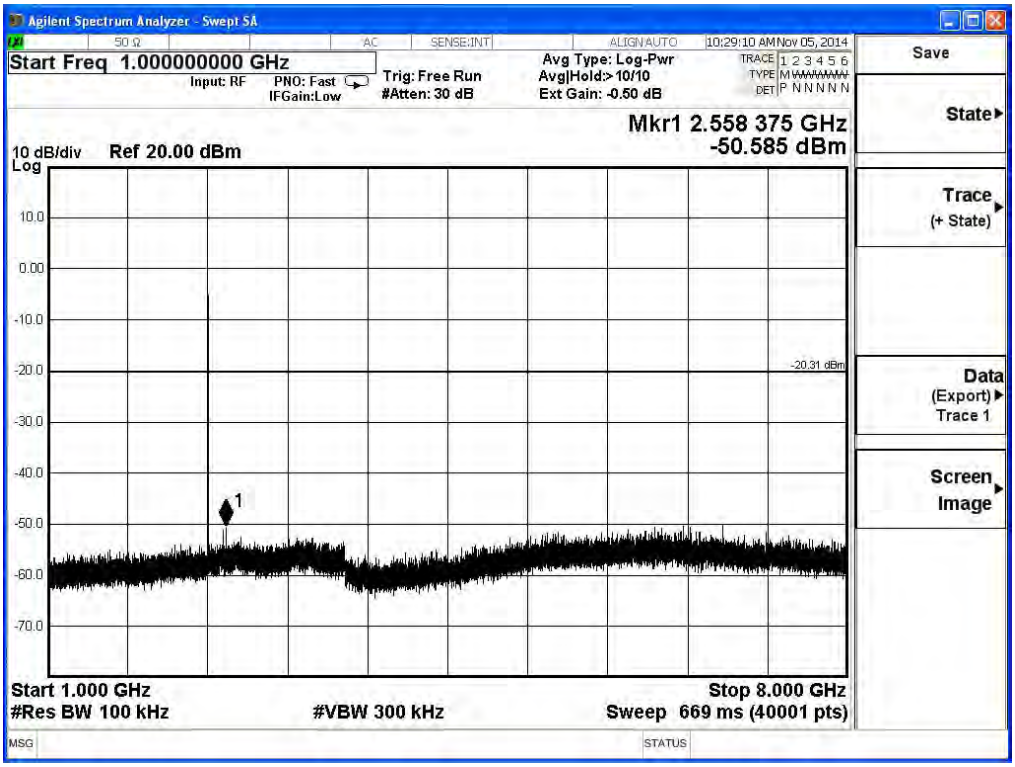


Product	SALUT		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: Transmit (π/4DQPSK)-Power by PC		
Date of Test	2014/11/05	Test Site	SR7

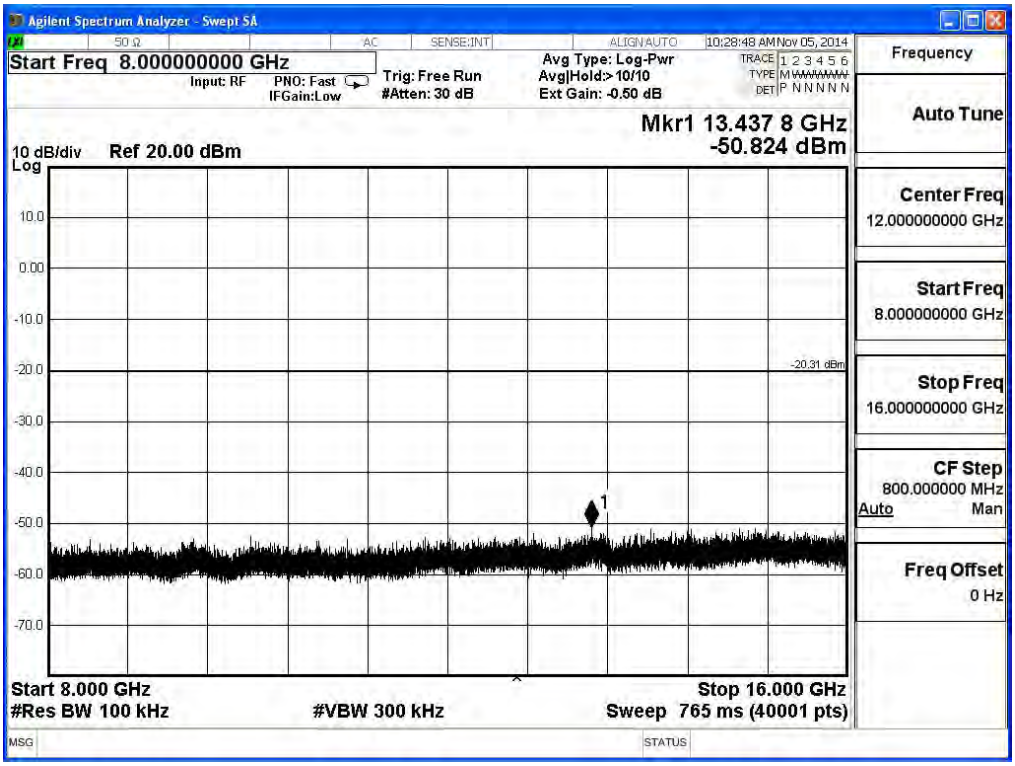
Channel 00 (30MHz-1GHz)- π/4-DQPSK



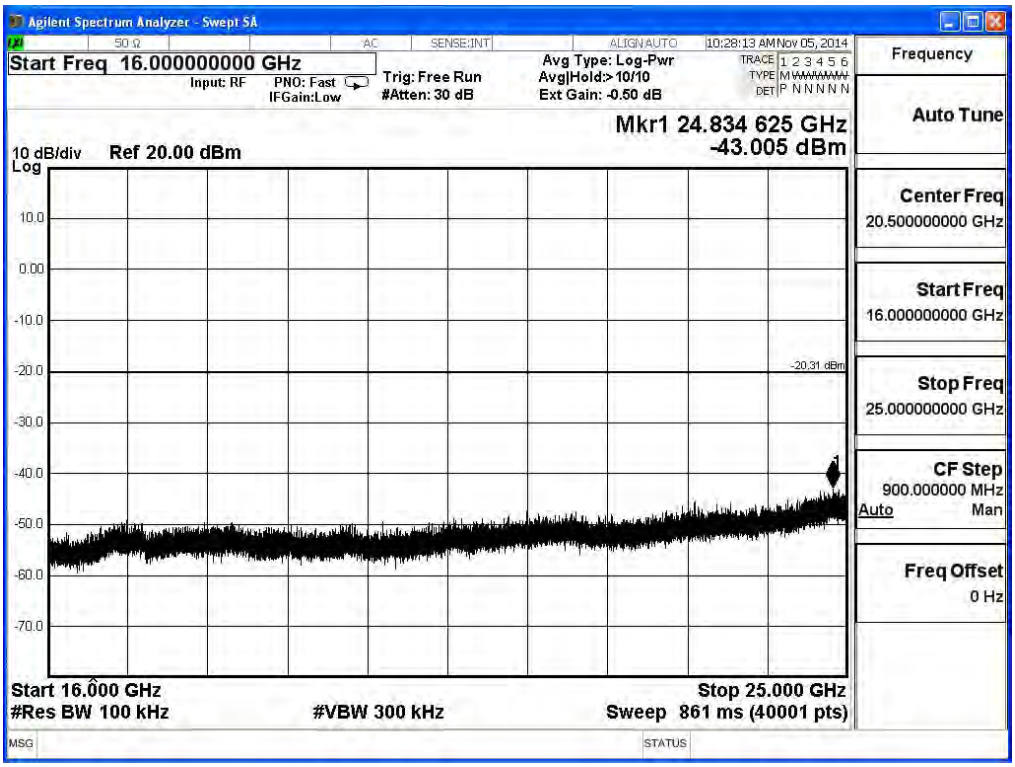
Channel 00 (1GHz~8GHz)- π/4-DQPSK



Channel 00 (8GHz-16GHz)- π/4-DQPSK

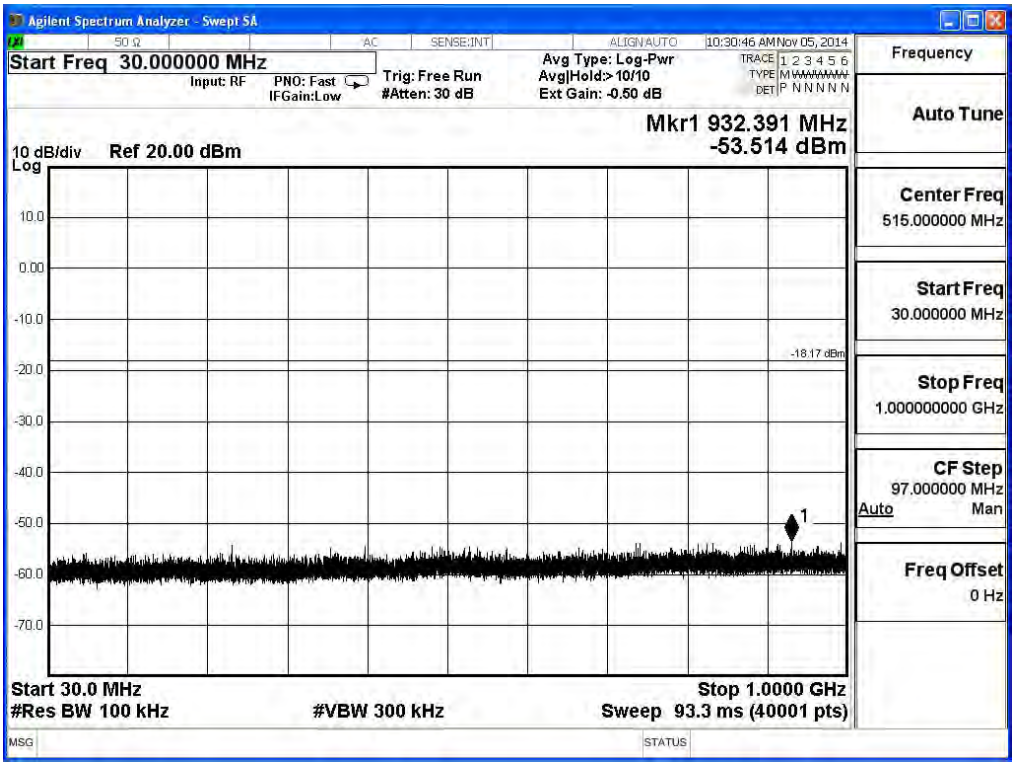


Channel 00 (16GHz~25GHz)- π/4-DQPSK

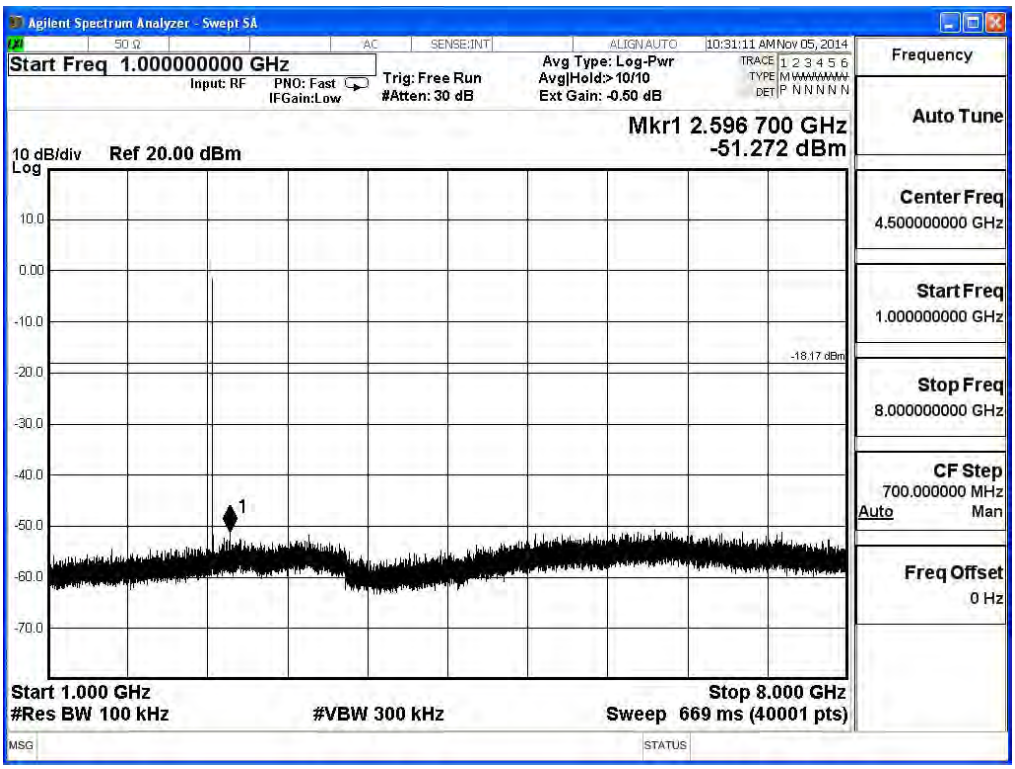


Product	SALUT		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: Transmit (π/4DQPSK)-Power by PC		
Date of Test	2014/11/05	Test Site	SR7

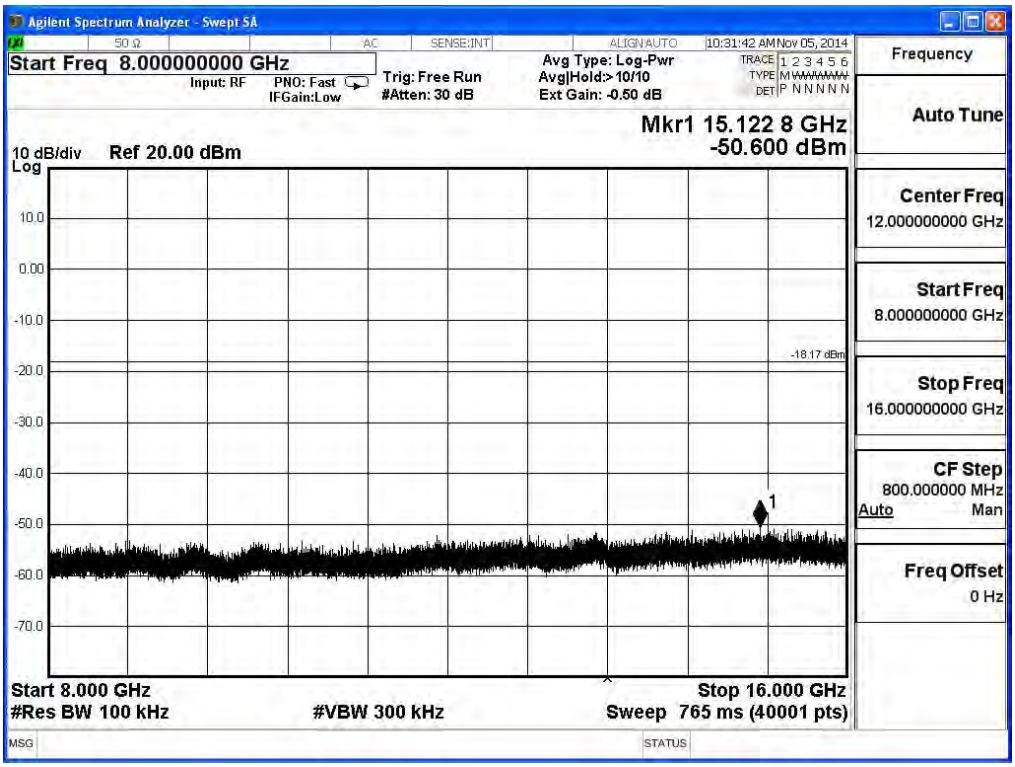
Channel 39 (30MHz-1GHz)- π/4-DQPSK



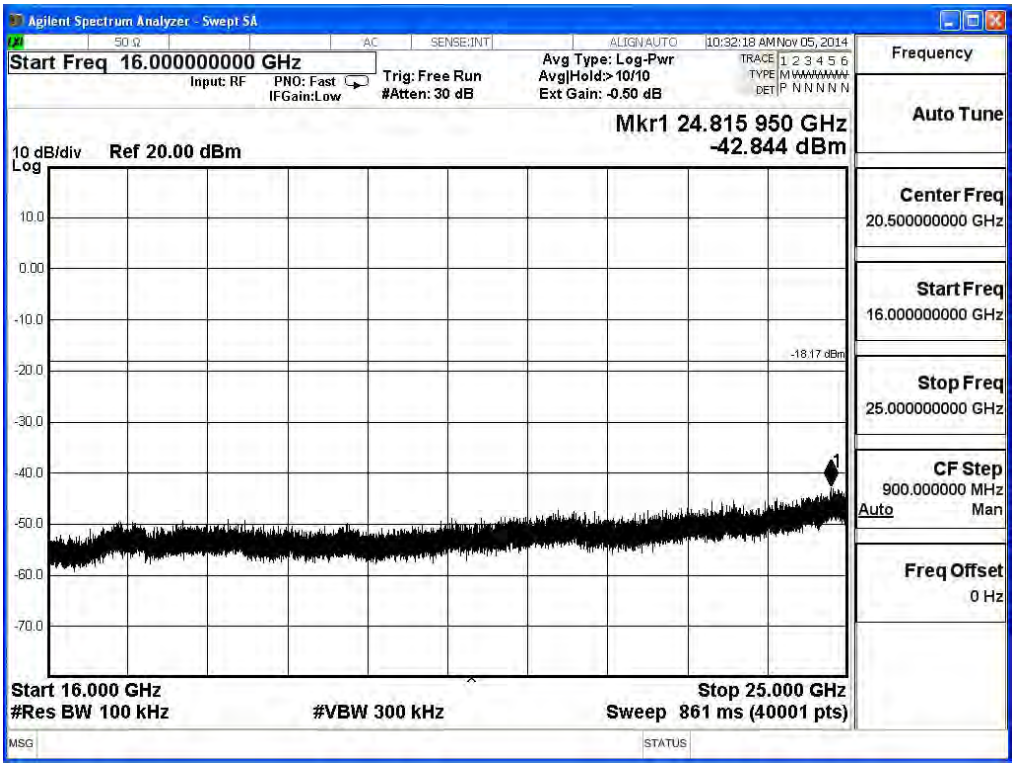
Channel 39 (1GHz~8GHz)- π/4-DQPSK



Channel 39 (8GHz-16GHz)- π/4-DQPSK

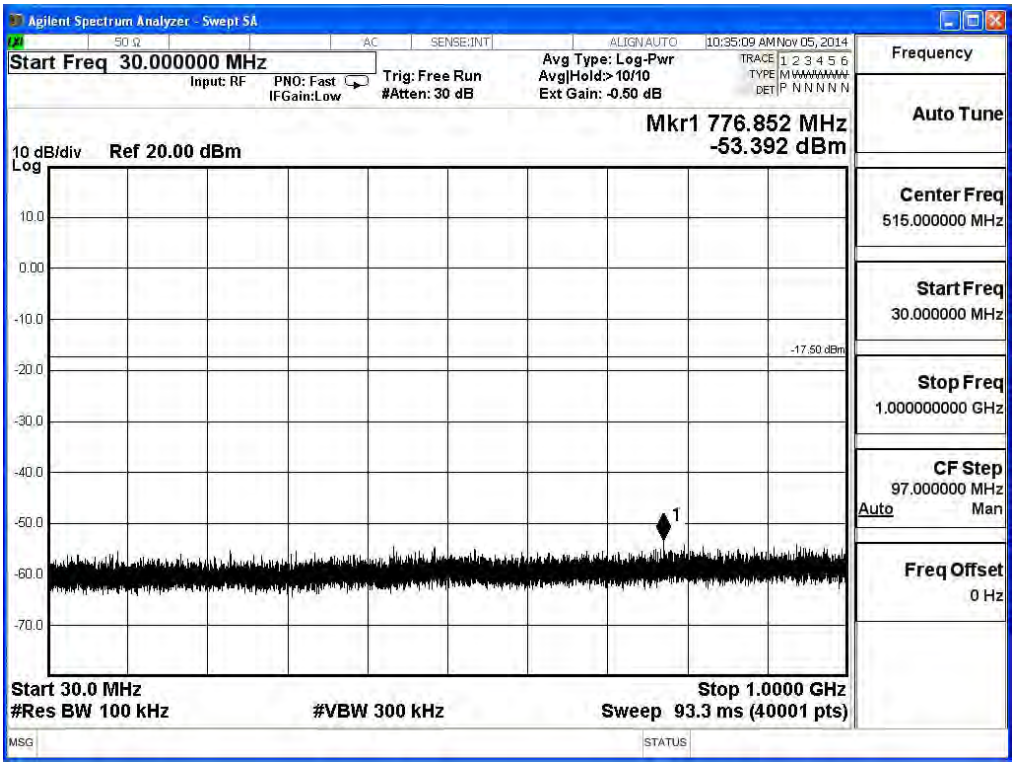


Channel 39 (16GHz~25GHz)- π/4-DQPSK

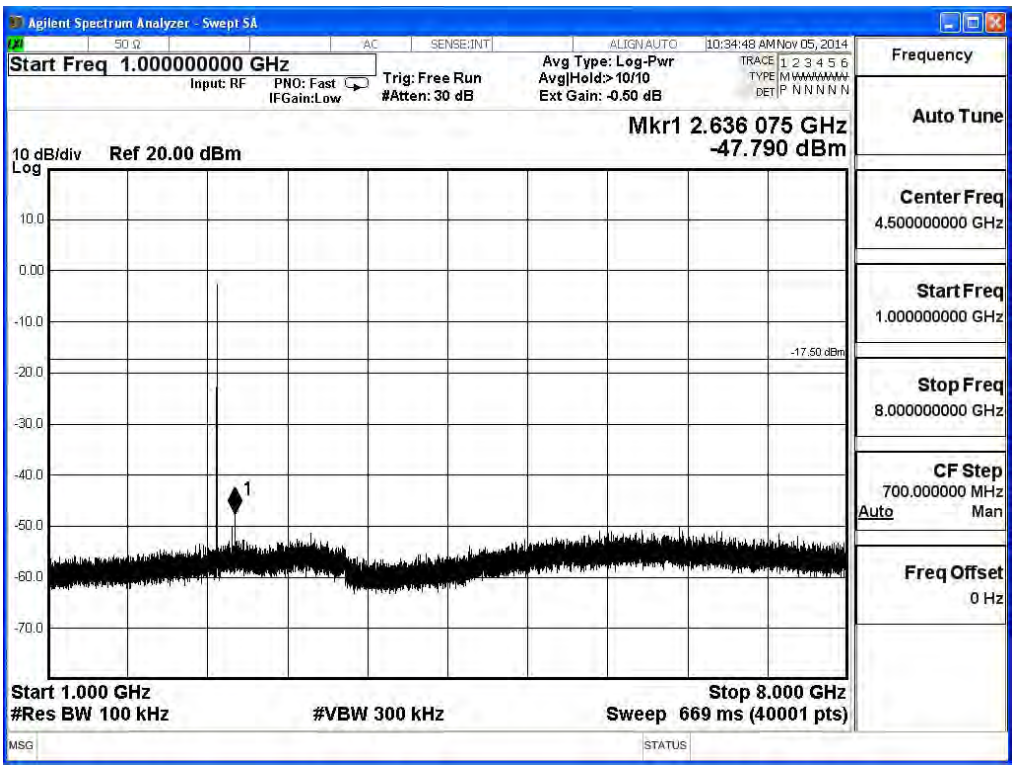


Product	SALUT		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: Transmit (π/4DQPSK)-Power by PC		
Date of Test	2014/11/05	Test Site	SR7

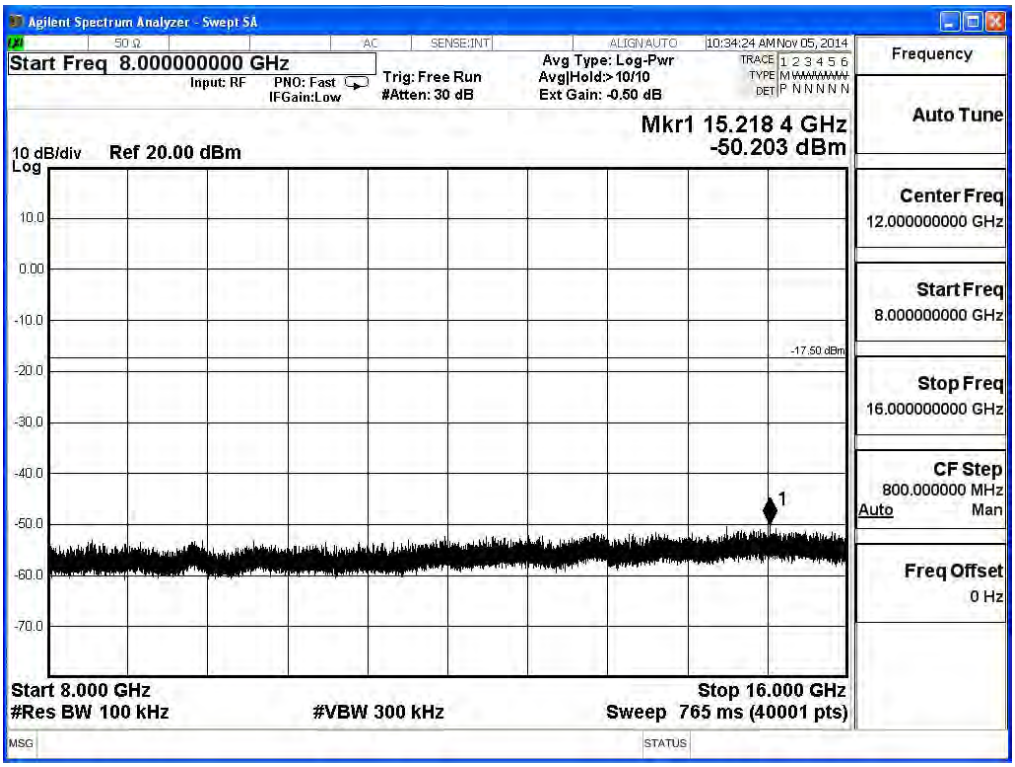
Channel 78 (30MHz-1GHz)- π/4-DQPSK



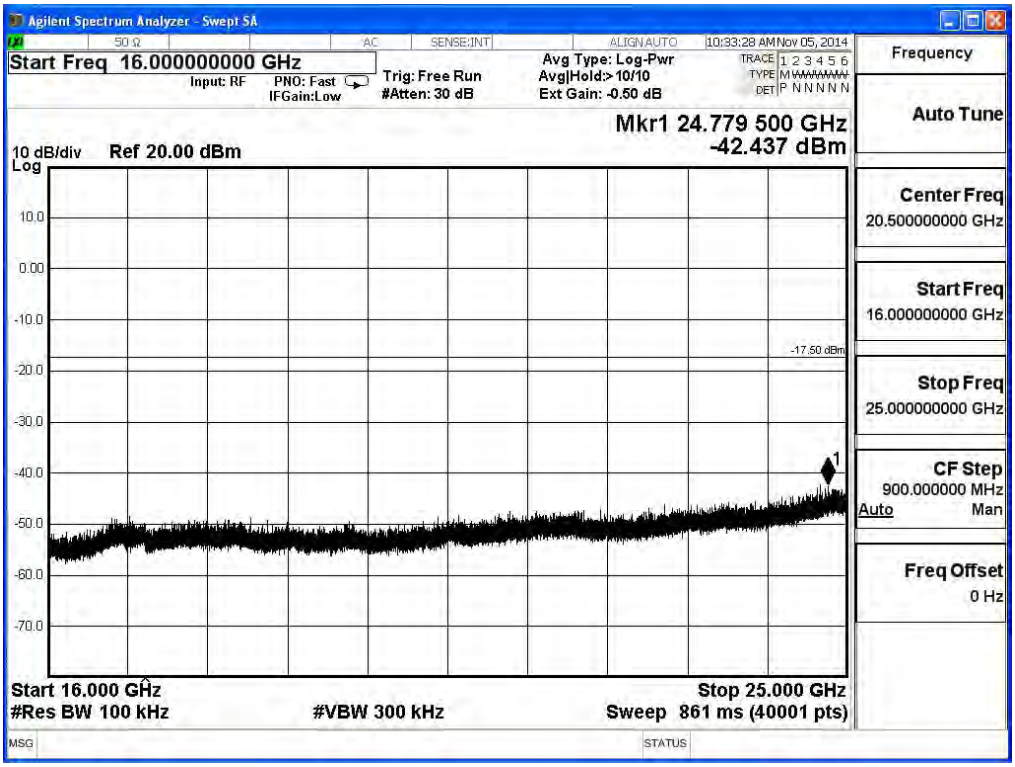
Channel 78 (1GHz~8GHz)- π/4-DQPSK



Channel 78 (8GHz-16GHz)- π/4-DQPSK

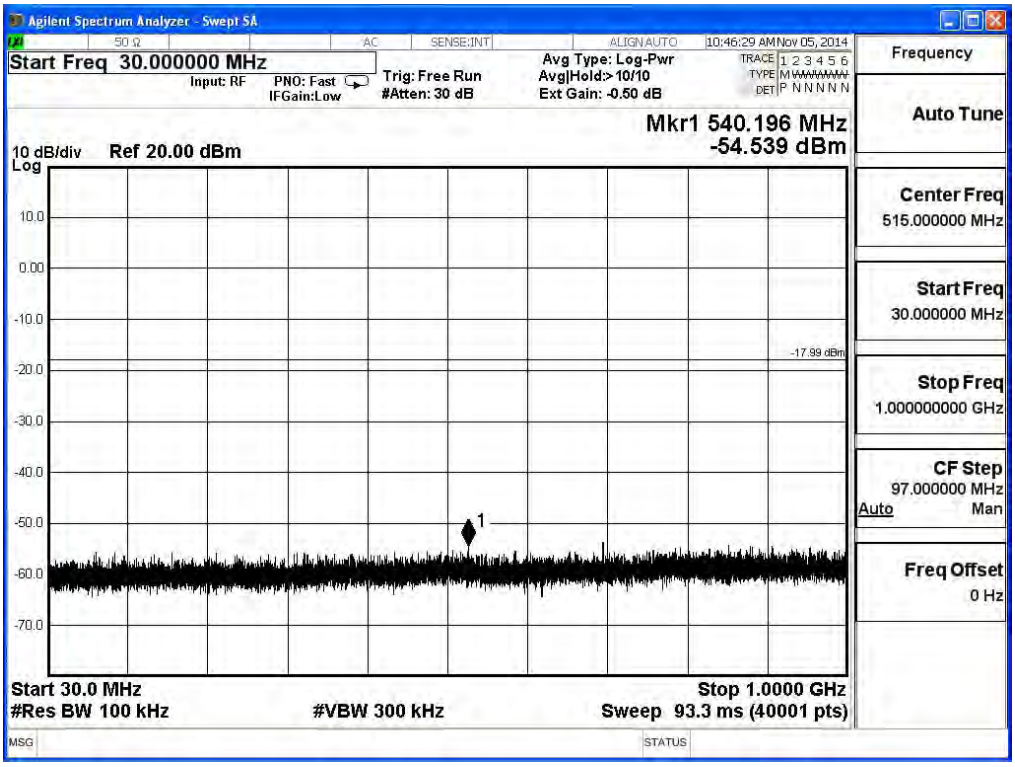


Channel 78 (16GHz~25GHz)- π/4-DQPSK

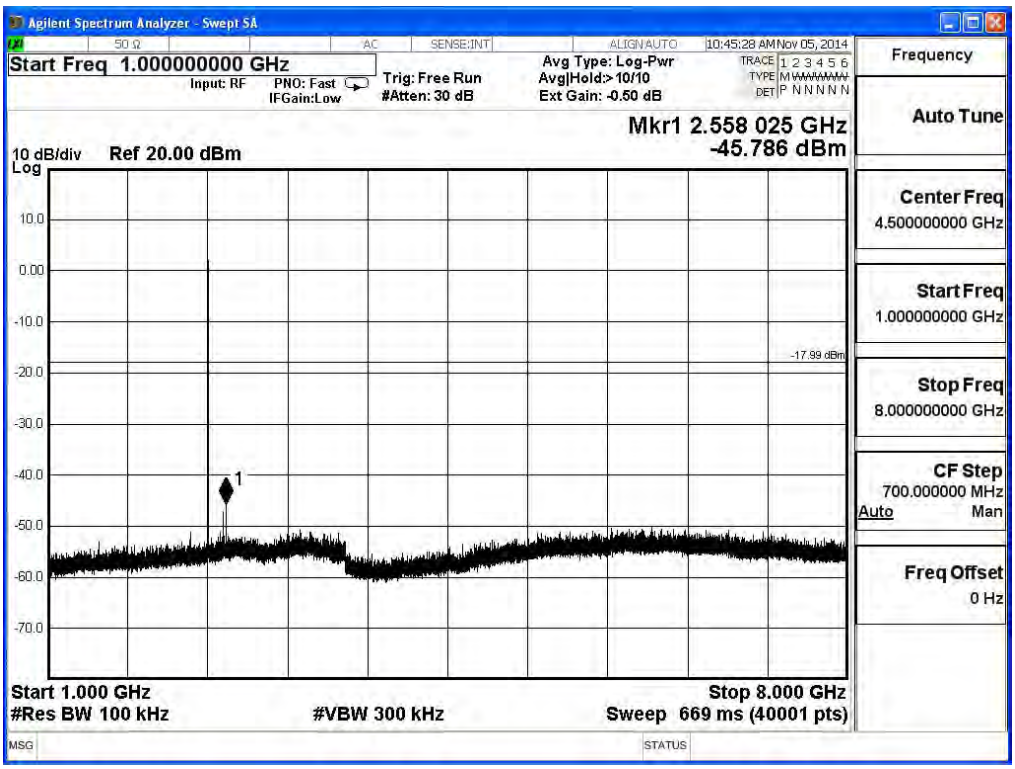


Product	SALUT		
Test Item	RF antenna conducted test		
Test Mode	Mode 3: Transmit (8DQPSK)-Power by PC		
Date of Test	2014/11/05	Test Site	SR7

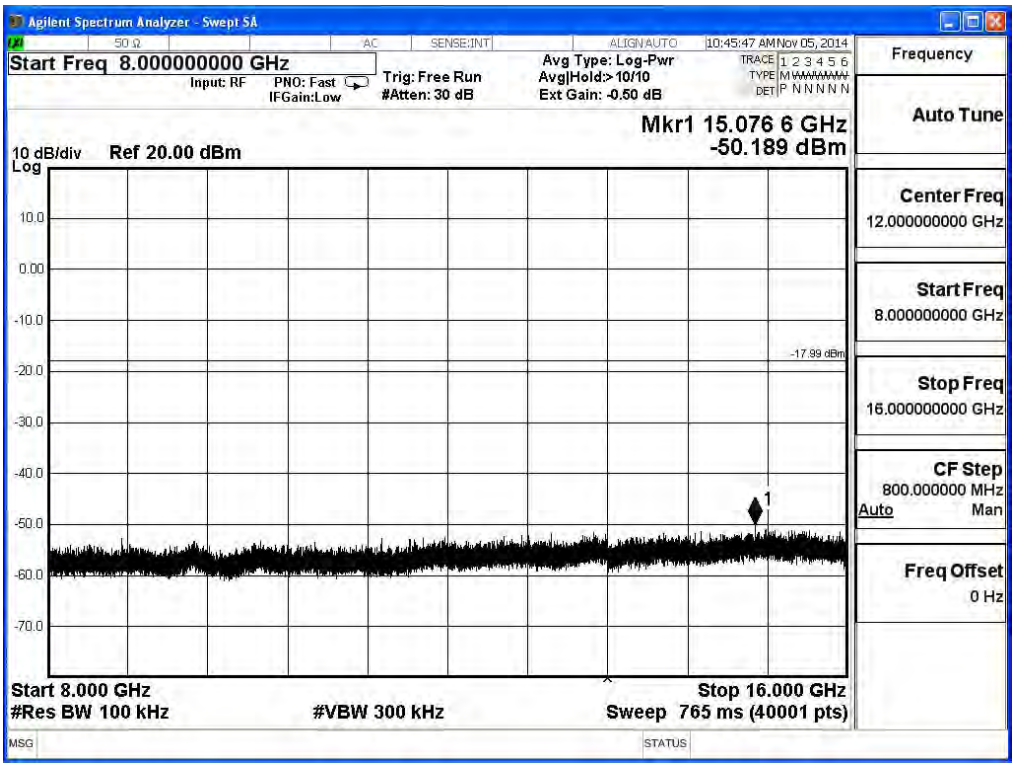
Channel 00 (30MHz-1GHz)- 8-DQPSK



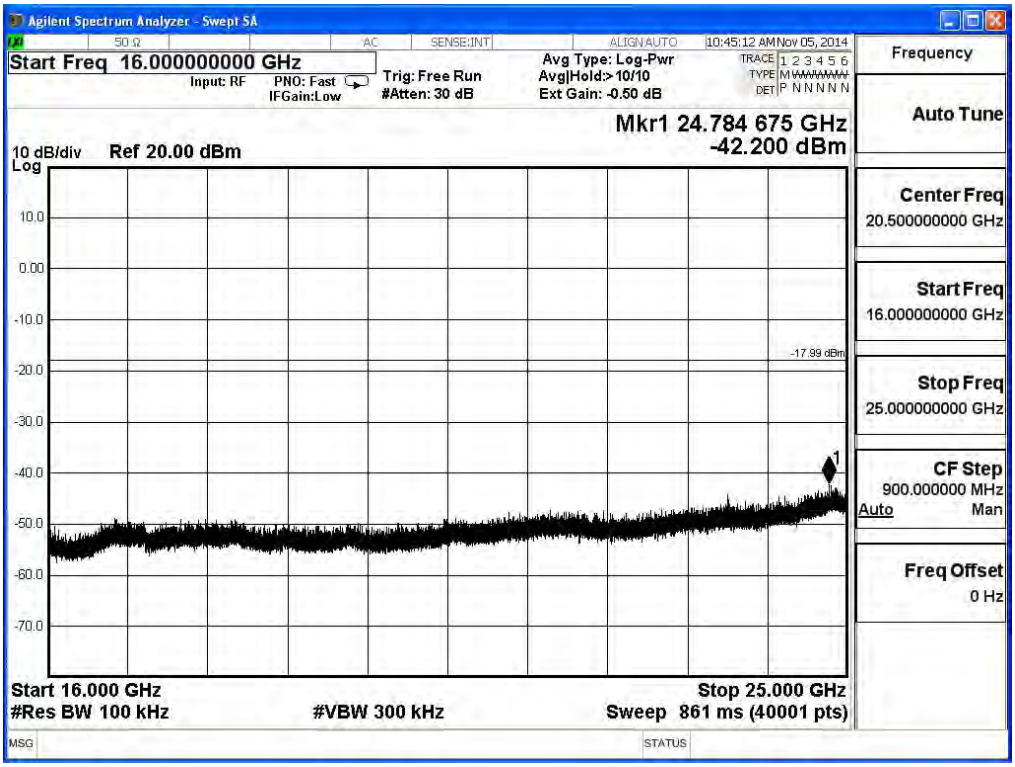
Channel 00 (1GHz~8GHz)- 8-DQPSK



Channel 00 (8GHz-16GHz)- 8-DQPSK

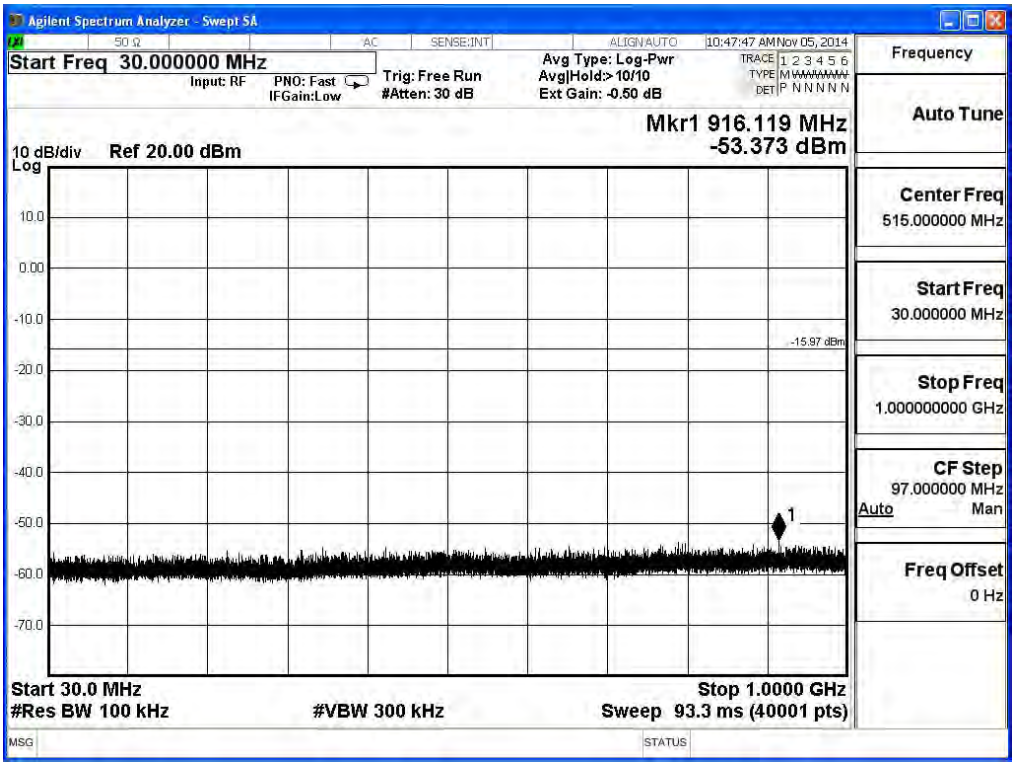


Channel 00 (16GHz~25GHz)- 8-DQPSK

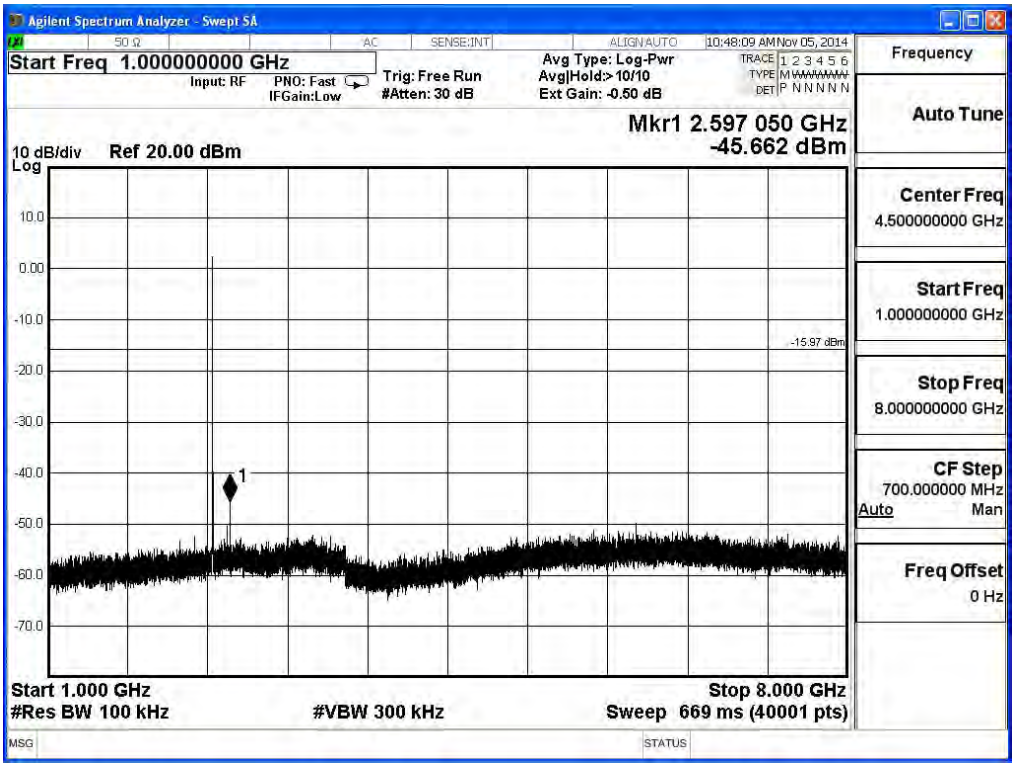


Product	SALUT		
Test Item	RF antenna conducted test		
Test Mode	Mode 3: Transmit (8DQPSK)-Power by PC		
Date of Test	2014/11/05	Test Site	SR7

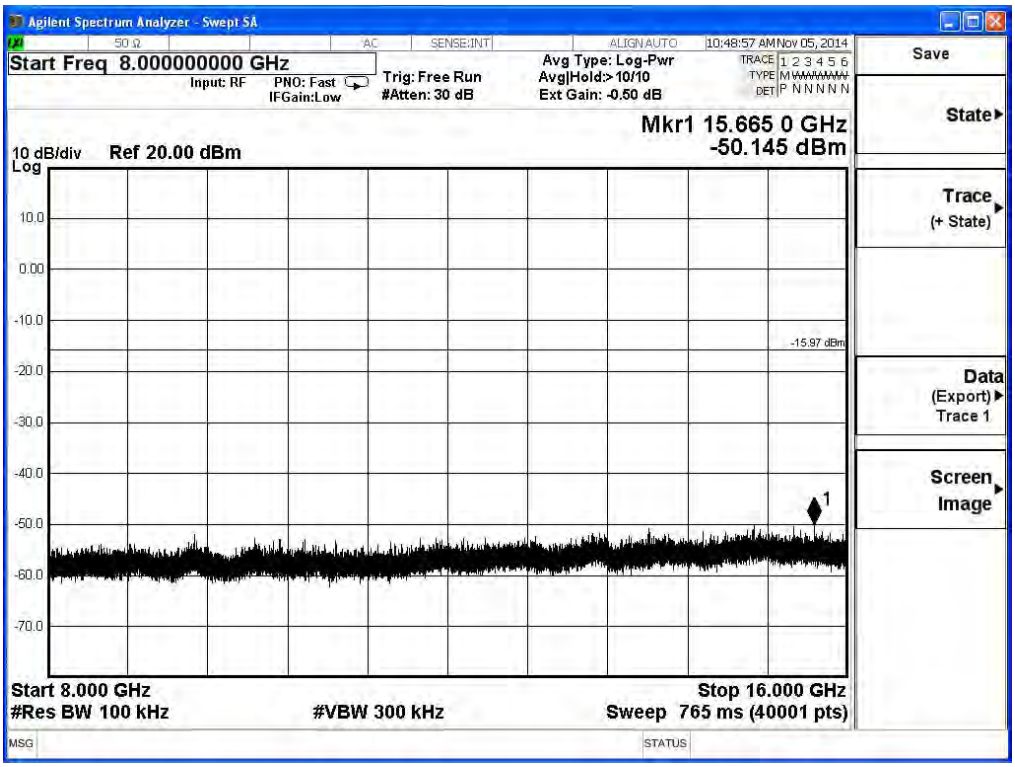
Channel 39 (30MHz-1GHz)- 8-DQPSK



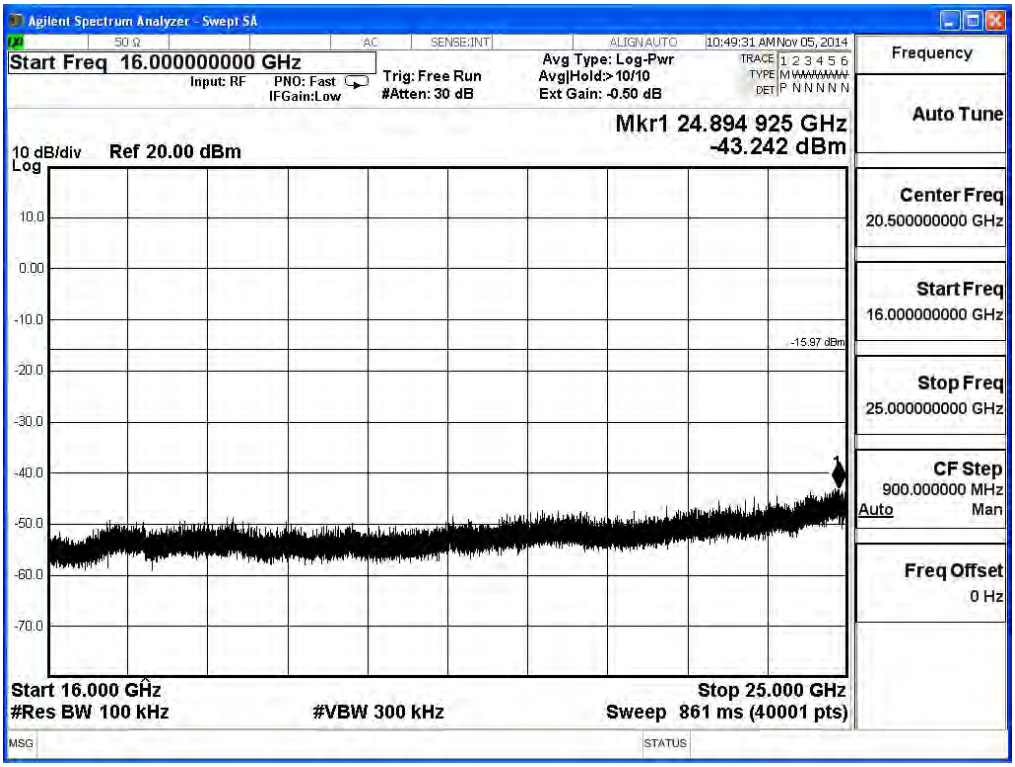
Channel 39 (1GHz~8GHz)- 8-DQPSK



Channel 39 (8GHz-16GHz)- 8-DQPSK

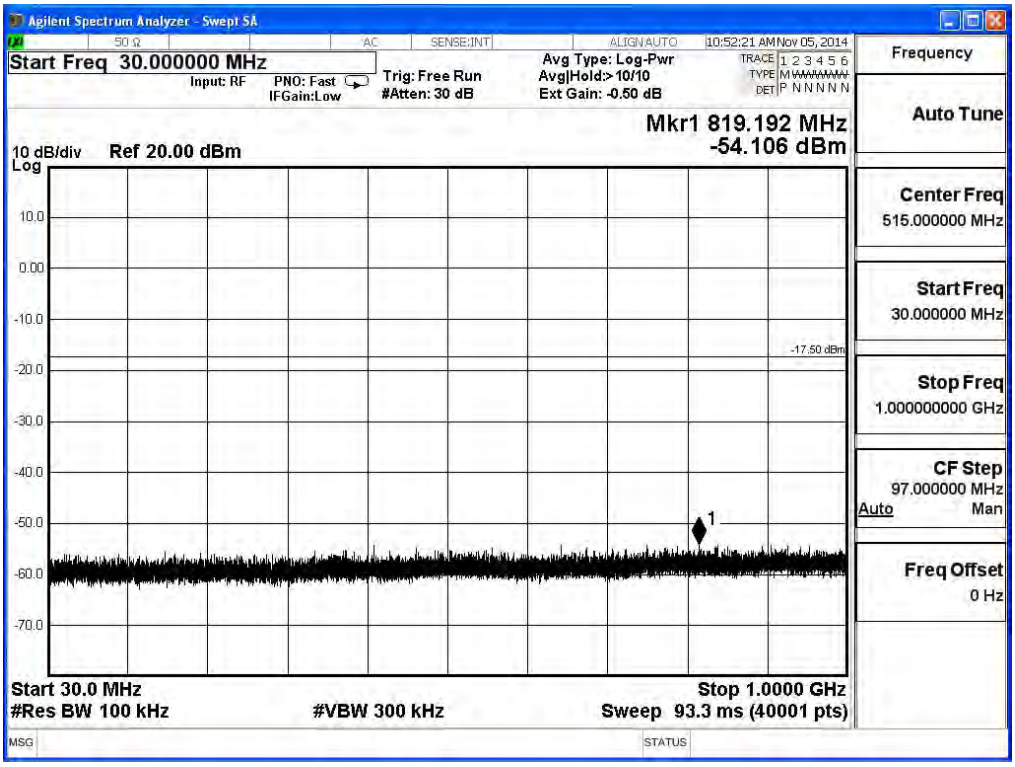


Channel 39 (16GHz~25GHz)- 8-DQPSK

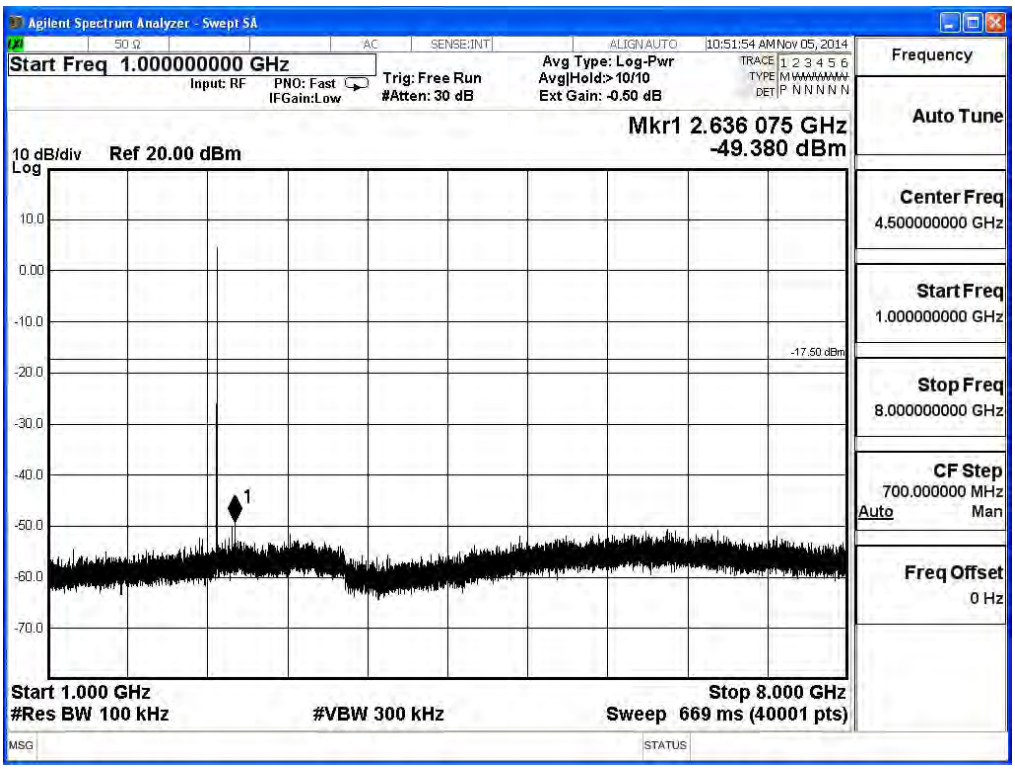


Product	SALUT		
Test Item	RF antenna conducted test		
Test Mode	Mode 3: Transmit (8DQPSK)-Power by PC		
Date of Test	2014/02/17	Test Site	SR7

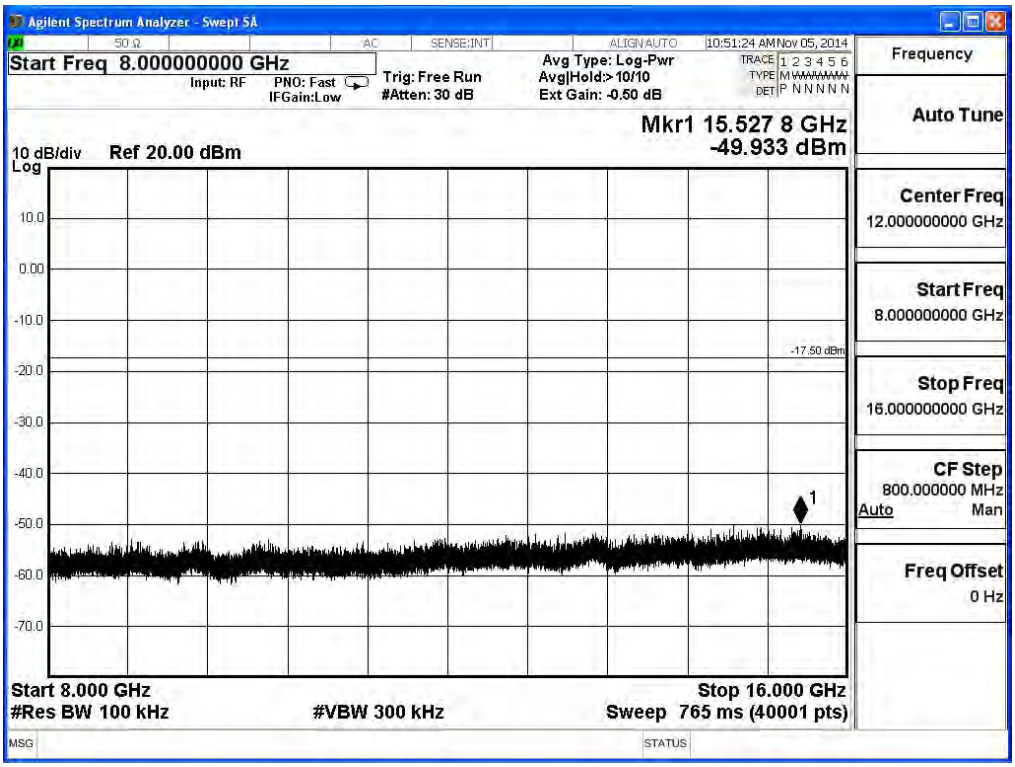
Channel 78 (30MHz-1GHz)- 8-DQPSK



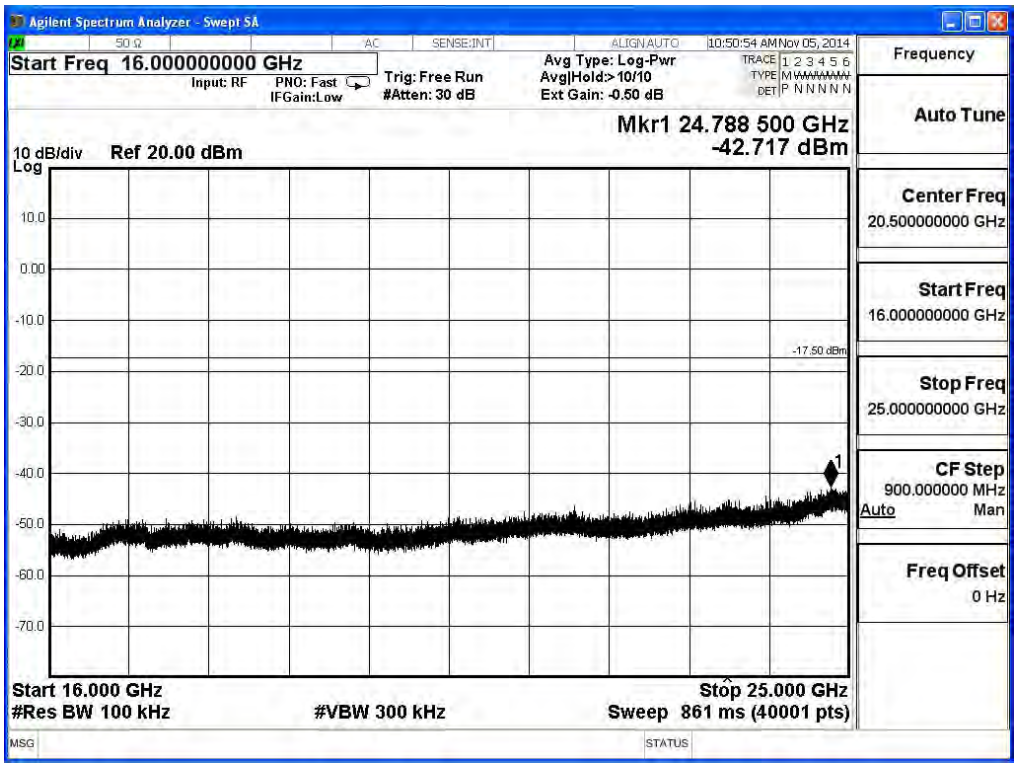
Channel 78 (1GHz~8GHz)- 8-DQPSK



Channel 78 (8GHz-16GHz)- 8-DQPSK



Channel 78 (16GHz~25GHz)- 8-DQPSK



6. Band Edge

6.1. Test Equipment

The following test equipments are used during the test:

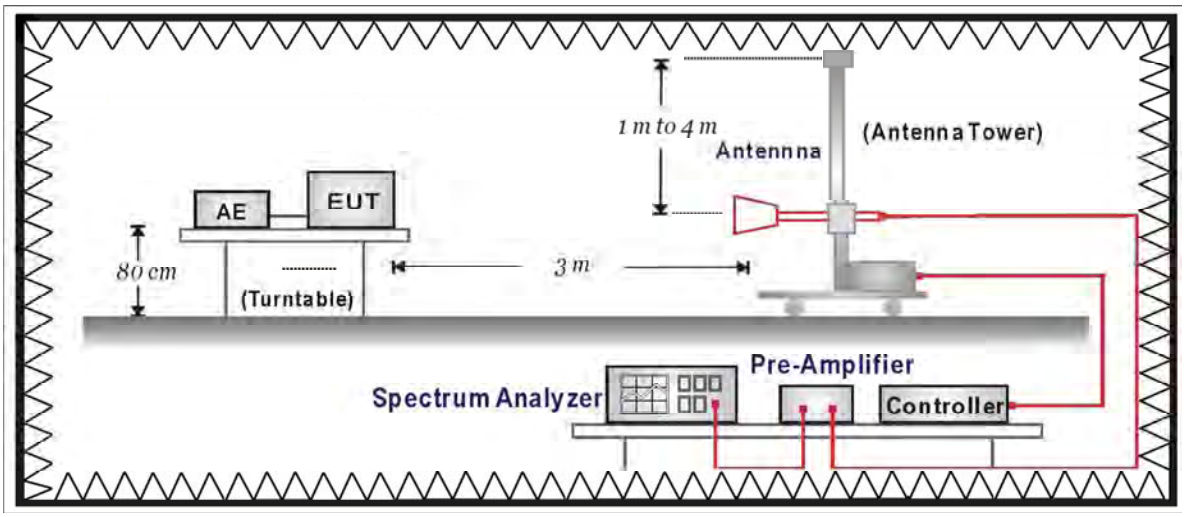
Band Edge / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Double Ridged Guide Horn Antenna	Schwarzback	BBHA 9120	D743	2015/02/12
Spectrum Analyzer	Agilent	E4440A	MY46187335	2015/01/12
k Type Cable	Huber Suhner	Sucoflex 102	25623/2	2015/02/10

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

6.2. Test Setup

RF Radiated Measurement:



6.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

6.4. Test Procedure

The EUT was setup according to ANSI C63.10:2013 and tested according to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

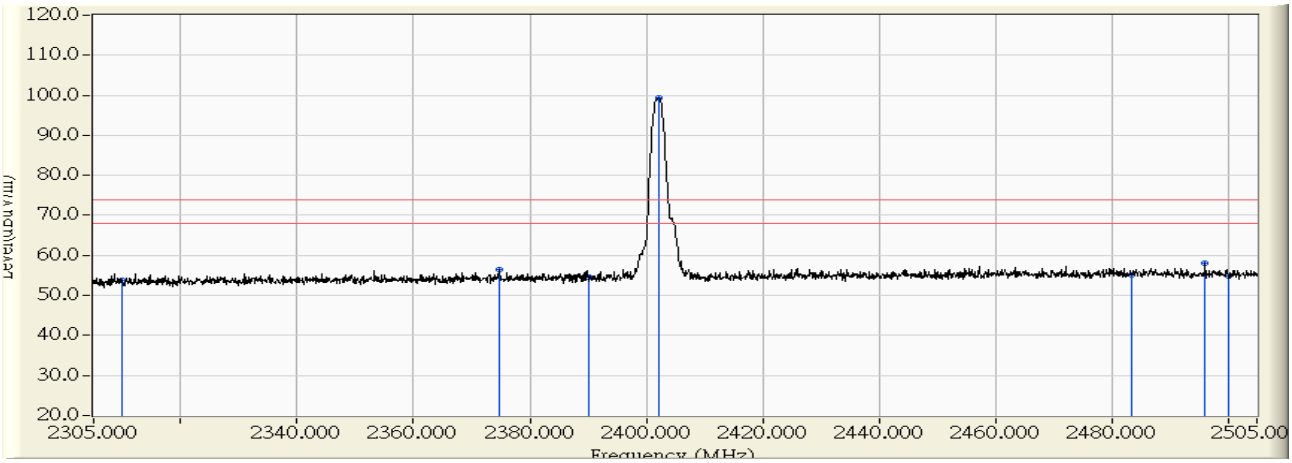
Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10:2013 on radiated measurement.

6.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2013

6.6. Test Result

Site : CB1	**Time : 2014/10/27 - 19:13**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : SAULT	**Note : Mode 1: Transmit (GFSK)-Power by PC 2402MHz**

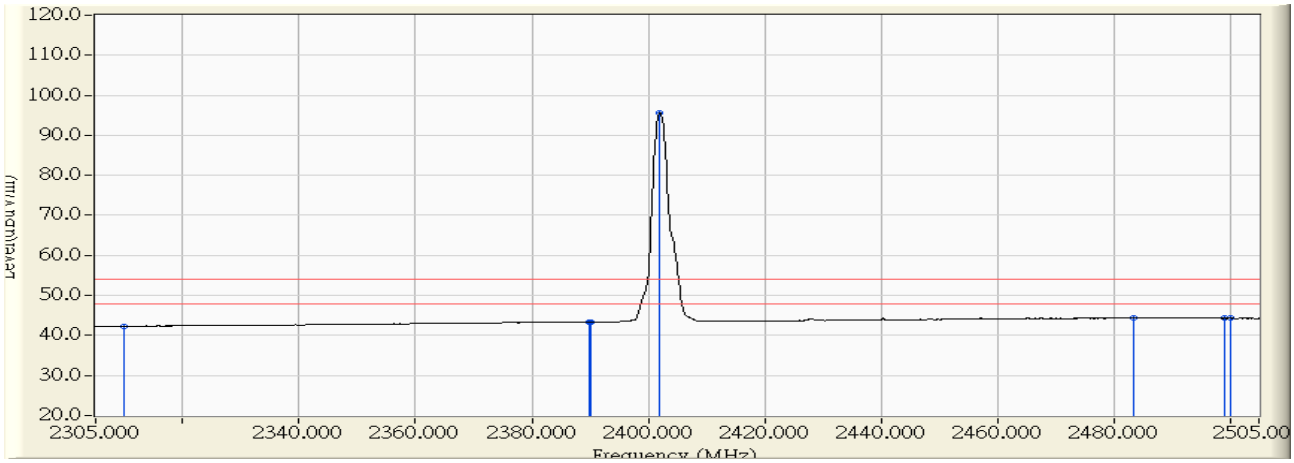


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	30.411	23.431	53.842	-20.158	74.000	PEAK
2		2374.700	31.082	25.419	56.501	-17.499	74.000	PEAK
3		2390.000	31.241	23.270	54.511	-19.489	74.000	PEAK
4	*	2402.200	31.367	68.055	99.422	25.422	74.000	PEAK
5		2483.500	31.980	23.225	55.204	-18.796	74.000	PEAK
6		2496.100	31.946	26.098	58.043	-15.957	74.000	PEAK
7		2500.000	31.934	22.811	54.746	-19.254	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : CB1	**Time : 2014/10/27 - 19:14**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : SAULT	**Note : Mode 1: Transmit (GFSK)-Power by PC 2402MHz**

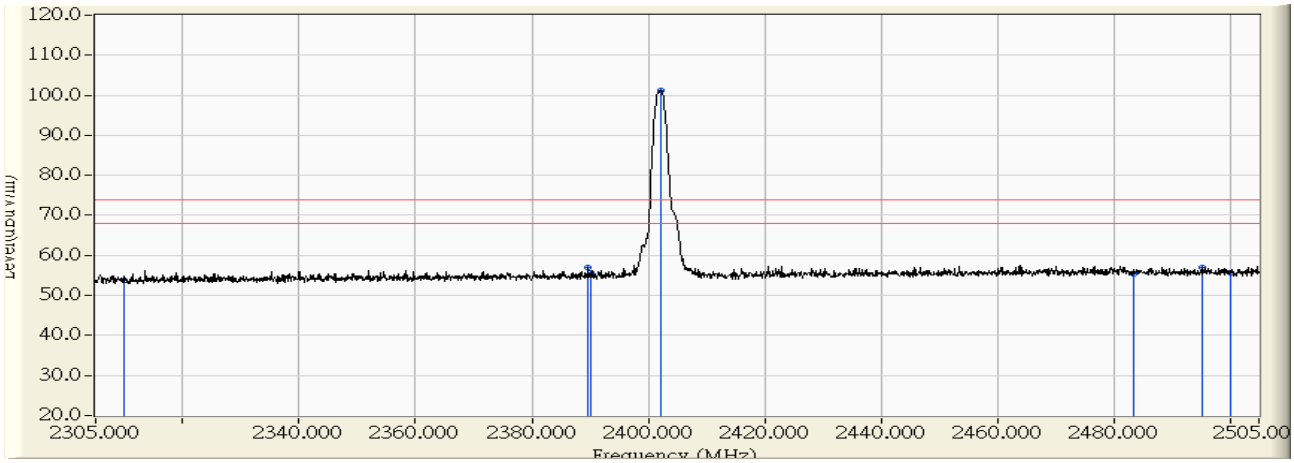


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	30.411	11.912	42.323	-11.677	54.000	AVERAGE
2		2389.800	31.239	12.177	43.416	-10.584	54.000	AVERAGE
3		2390.000	31.241	12.160	43.401	-10.599	54.000	AVERAGE
4	*	2402.000	31.365	64.364	95.729	41.729	54.000	AVERAGE
5		2483.500	31.980	12.339	44.318	-9.682	54.000	AVERAGE
6		2499.000	31.938	12.340	44.277	-9.723	54.000	AVERAGE
7		2500.000	31.934	12.349	44.284	-9.716	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : CB1	**Time : 2014/10/27 - 19:21**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : SAULT	**Note : Mode 1: Transmit (GFSK)-Power by PC 2402MHz**

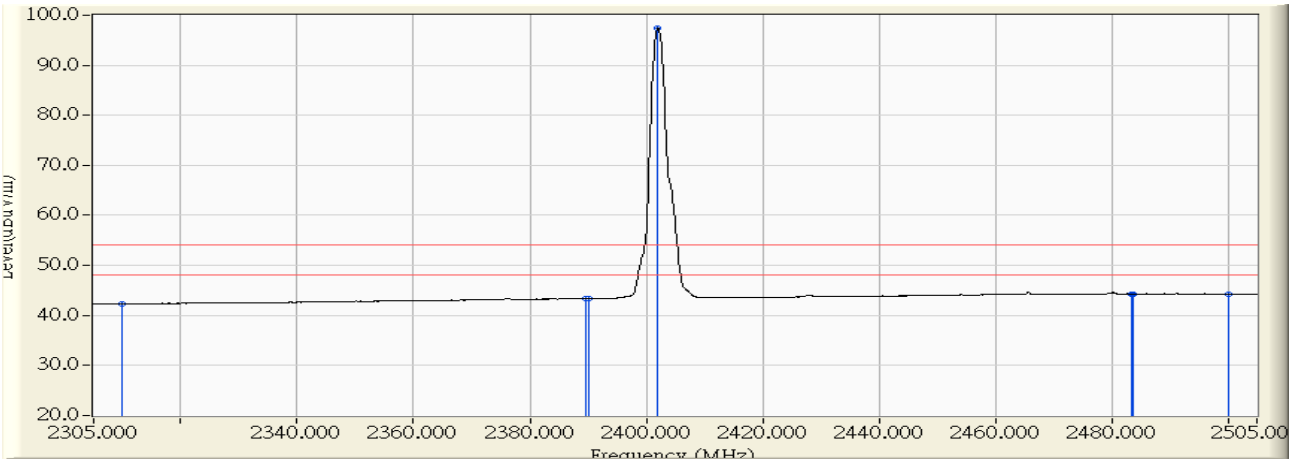


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	30.411	23.403	53.814	-20.186	74.000	PEAK
2		2389.600	31.237	25.695	56.932	-17.068	74.000	PEAK
3		2390.000	31.241	24.320	55.561	-18.439	74.000	PEAK
4	*	2402.200	31.367	69.904	101.271	27.271	74.000	PEAK
5		2483.500	31.980	23.521	55.500	-18.500	74.000	PEAK
6		2495.200	31.948	25.106	57.054	-16.946	74.000	PEAK
7		2500.000	31.934	23.716	55.651	-18.349	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : CB1	**Time : 2014/10/27 - 19:22**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : SAULT	**Note : Mode 1: Transmit (GFSK)-Power by PC 2402MHz**

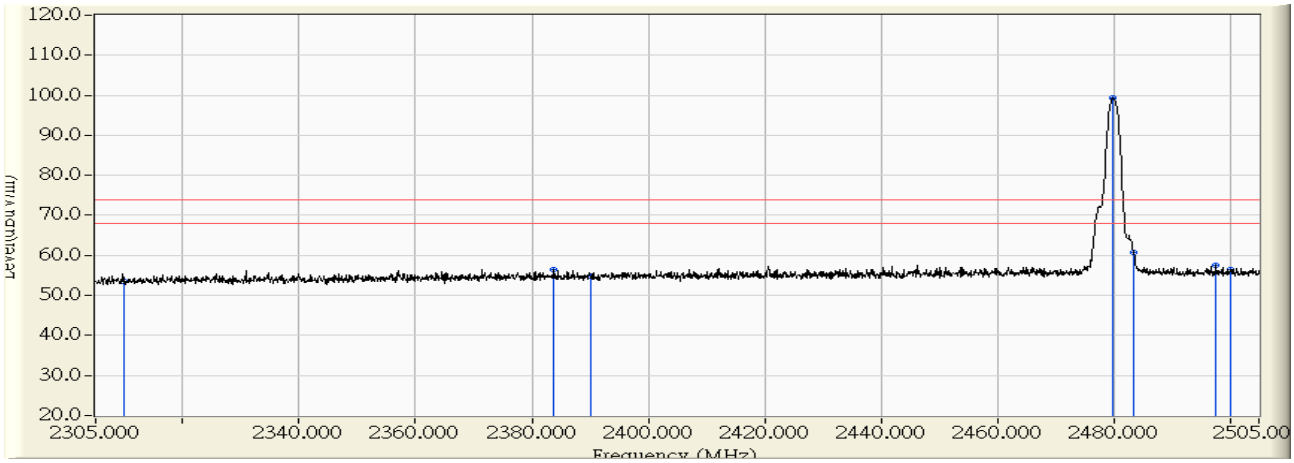


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	30.411	11.895	42.306	-11.694	54.000	AVERAGE
2		2389.500	31.236	12.152	43.388	-10.612	54.000	AVERAGE
3		2390.000	31.241	12.173	43.414	-10.586	54.000	AVERAGE
4	*	2402.000	31.365	66.111	97.476	43.476	54.000	AVERAGE
5		2483.500	31.980	12.326	44.305	-9.695	54.000	AVERAGE
6		2483.600	31.979	12.320	44.299	-9.701	54.000	AVERAGE
7		2500.000	31.934	12.304	44.239	-9.761	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : CB1	**Time : 2014/10/27 - 19:27**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : SAULT	**Note : Mode 1: Transmit (GFSK)-Power by PC 2480MHz**

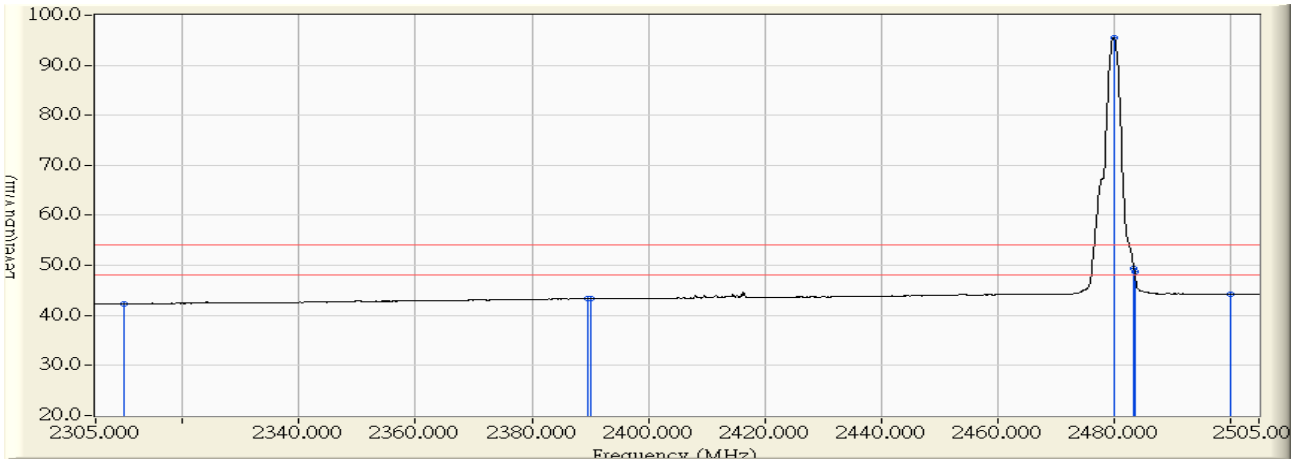


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	30.411	23.144	53.555	-20.445	74.000	PEAK
2		2383.800	31.177	25.308	56.485	-17.515	74.000	PEAK
3		2390.000	31.241	23.585	54.826	-19.174	74.000	PEAK
4	*	2479.800	31.989	67.236	99.226	25.226	74.000	PEAK
5		2483.500	31.980	28.749	60.728	-13.272	74.000	PEAK
6		2497.600	31.942	25.529	57.470	-16.530	74.000	PEAK
7		2500.000	31.934	24.424	56.359	-17.641	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : CB1	**Time : 2014/10/27 - 19:28**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : SAULT	**Note : Mode 1: Transmit (GFSK)-Power by PC 2480MHz**

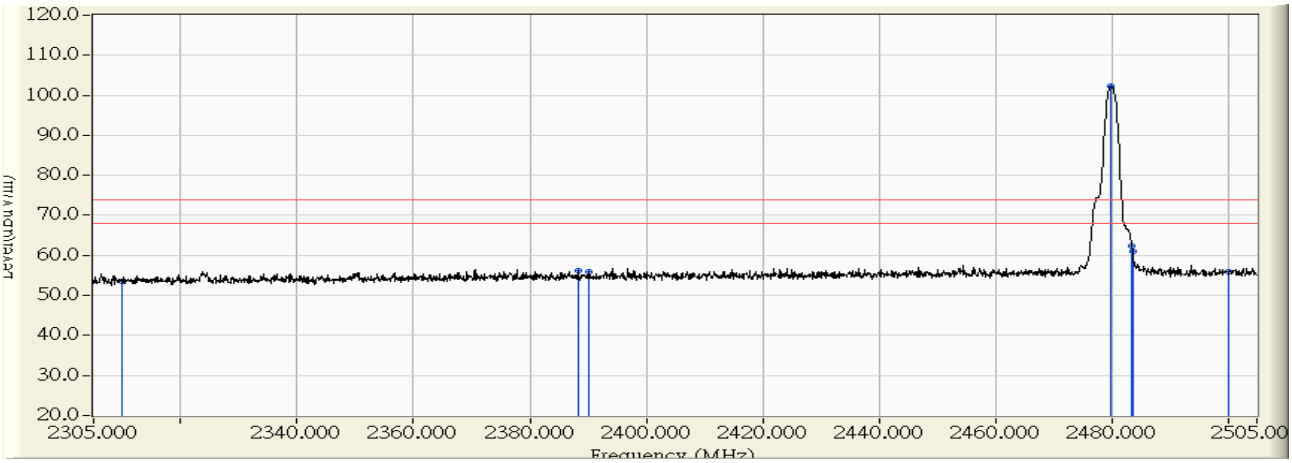


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	30.411	11.881	42.292	-11.708	54.000	AVERAGE
2		2389.500	31.236	12.106	43.342	-10.658	54.000	AVERAGE
3		2390.000	31.241	12.092	43.333	-10.667	54.000	AVERAGE
4	*	2480.000	31.989	63.601	95.590	41.590	54.000	AVERAGE
5		2483.500	31.980	17.488	49.467	-4.533	54.000	AVERAGE
6		2483.600	31.979	16.708	48.687	-5.313	54.000	AVERAGE
7		2500.000	31.934	12.328	44.263	-9.737	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : CB1	**Time : 2014/10/27 - 19:37**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : SAULT	**Note : Mode 1: Transmit (GFSK)-Power by PC 2480MHz**

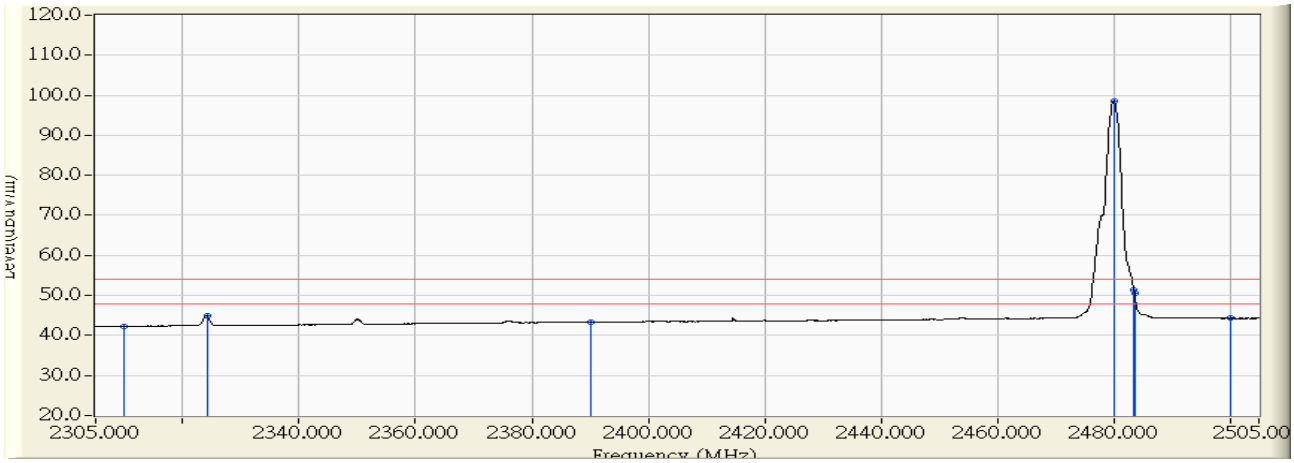


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	30.411	23.210	53.621	-20.379	74.000	PEAK
2		2388.300	31.223	25.009	56.232	-17.768	74.000	PEAK
3		2390.000	31.241	24.709	55.950	-18.050	74.000	PEAK
4	*	2479.800	31.989	70.220	102.210	28.210	74.000	PEAK
5		2483.500	31.980	30.437	62.416	-11.584	74.000	PEAK
6		2483.600	31.979	28.959	60.938	-13.062	74.000	PEAK
7		2500.000	31.934	23.893	55.828	-18.172	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : CB1	**Time : 2014/10/27 - 19:37**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : SAULT	**Note : Mode 1: Transmit (GFSK)-Power by PC 2480MHz**

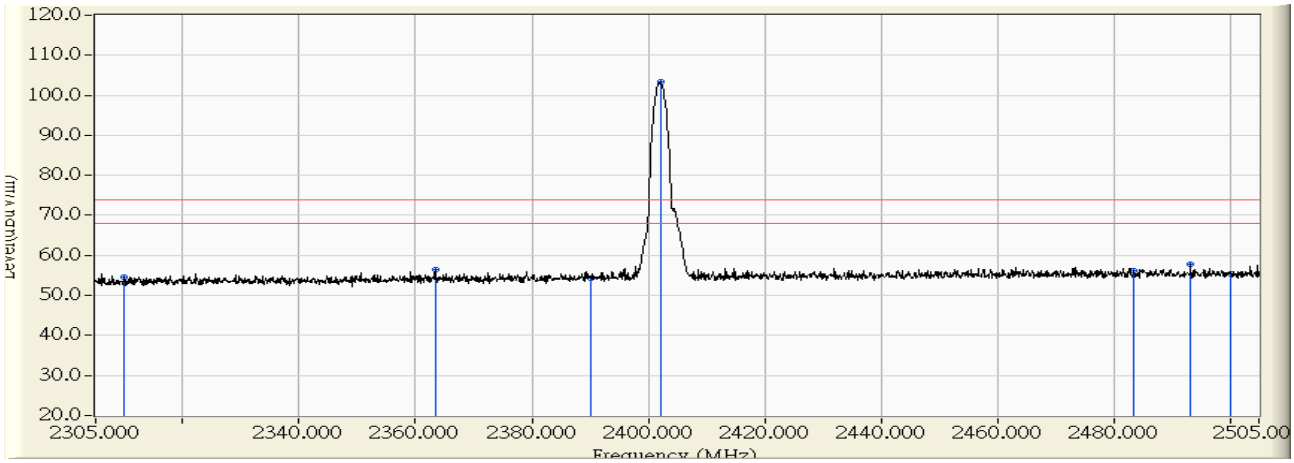


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	30.411	11.885	42.296	-11.704	54.000	AVERAGE
2		2324.200	30.558	14.247	44.806	-9.194	54.000	AVERAGE
3		2390.000	31.241	12.098	43.339	-10.661	54.000	AVERAGE
4	*	2480.000	31.989	66.458	98.447	44.447	54.000	AVERAGE
5		2483.500	31.980	19.408	51.387	-2.613	54.000	AVERAGE
6		2483.600	31.979	18.483	50.462	-3.538	54.000	AVERAGE
7		2500.000	31.934	12.332	44.267	-9.733	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : CB1	**Time : 2014/10/27 - 19:43**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : SAULT	**Note : Mode 2: Transmit (π/4DQPSK)-Power by PC 2402MHz**

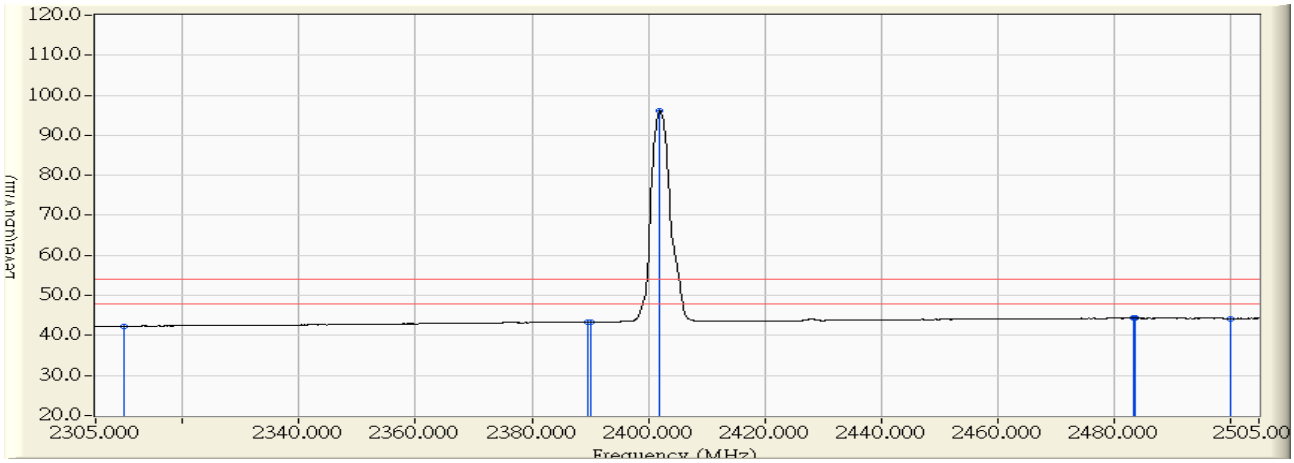


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	30.411	24.252	54.663	-19.337	74.000	PEAK
2		2363.400	30.965	25.495	56.460	-17.540	74.000	PEAK
3		2390.000	31.241	22.944	54.185	-19.815	74.000	PEAK
4	*	2402.100	31.366	71.925	103.291	29.291	74.000	PEAK
5		2483.500	31.980	24.144	56.123	-17.877	74.000	PEAK
6		2493.200	31.954	25.918	57.871	-16.129	74.000	PEAK
7		2500.000	31.934	23.562	55.497	-18.503	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : CB1	**Time : 2014/10/27 - 19:43**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : SAULT	**Note : Mode 2: Transmit (π/4DQPSK)-Power by PC 2402MHz**

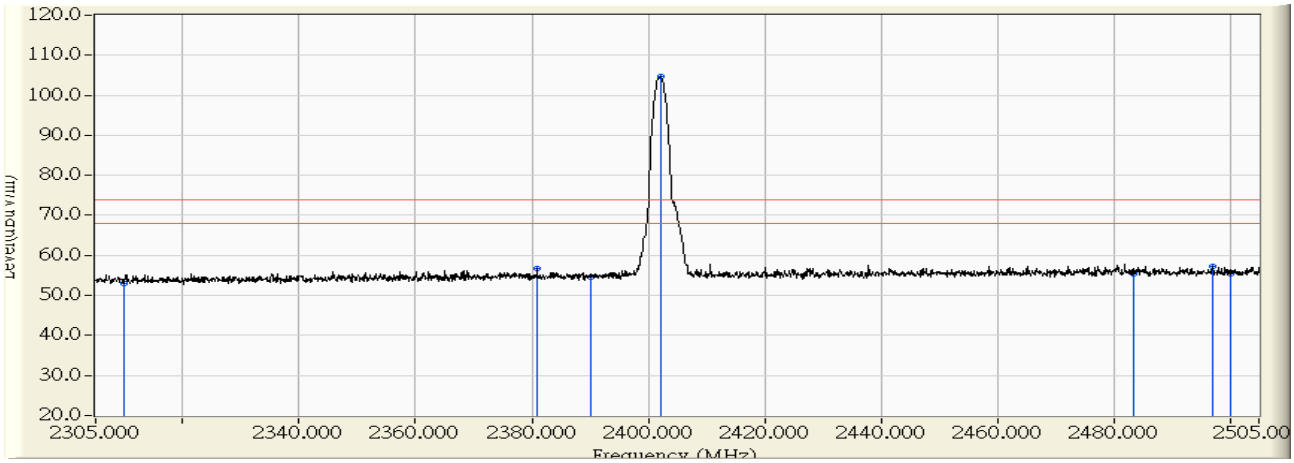


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	30.411	11.892	42.303	-11.697	54.000	AVERAGE
2		2389.500	31.236	12.124	43.360	-10.640	54.000	AVERAGE
3		2390.000	31.241	12.134	43.375	-10.625	54.000	AVERAGE
4	*	2402.000	31.365	64.674	96.039	42.039	54.000	AVERAGE
5		2483.500	31.980	12.295	44.274	-9.726	54.000	AVERAGE
6		2483.600	31.979	12.313	44.292	-9.708	54.000	AVERAGE
7		2500.000	31.934	12.305	44.240	-9.760	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : CB1	**Time : 2014/10/27 - 19:47**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : SAULT	**Note : Mode 2: Transmit (π/4DQPSK)-Power by PC 2402MHz**

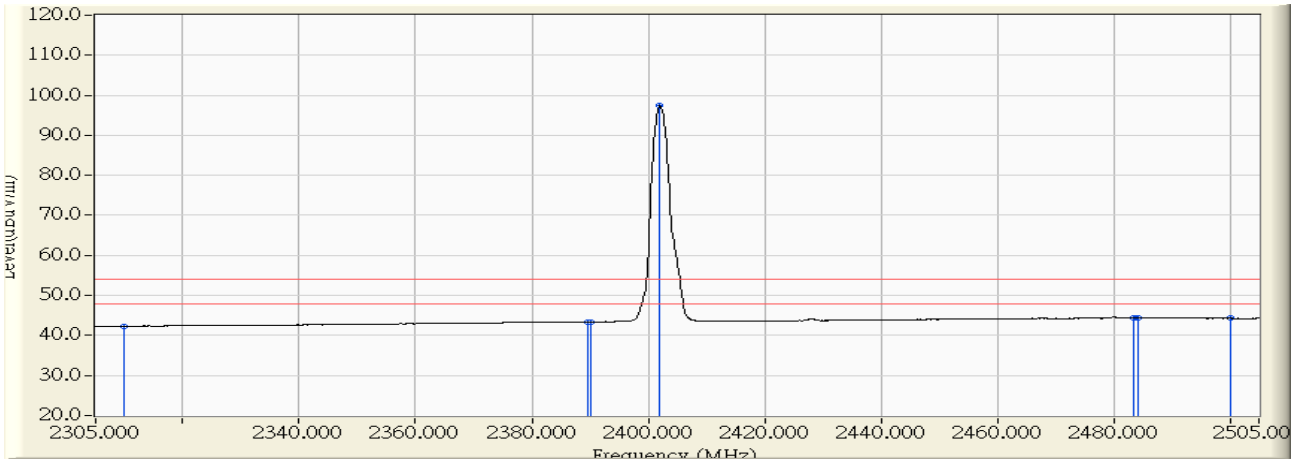


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	30.411	22.632	53.043	-20.957	74.000	PEAK
2		2380.900	31.146	25.515	56.662	-17.338	74.000	PEAK
3		2390.000	31.241	23.352	54.593	-19.407	74.000	PEAK
4	*	2402.200	31.367	73.288	104.655	30.655	74.000	PEAK
5		2483.500	31.980	23.401	55.380	-18.620	74.000	PEAK
6		2497.000	31.943	25.435	57.378	-16.622	74.000	PEAK
7		2500.000	31.934	23.479	55.414	-18.586	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : CB1	**Time : 2014/10/27 - 19:47**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : SAULT	**Note : Mode 2: Transmit (π/4DQPSK)-Power by PC 2402MHz**

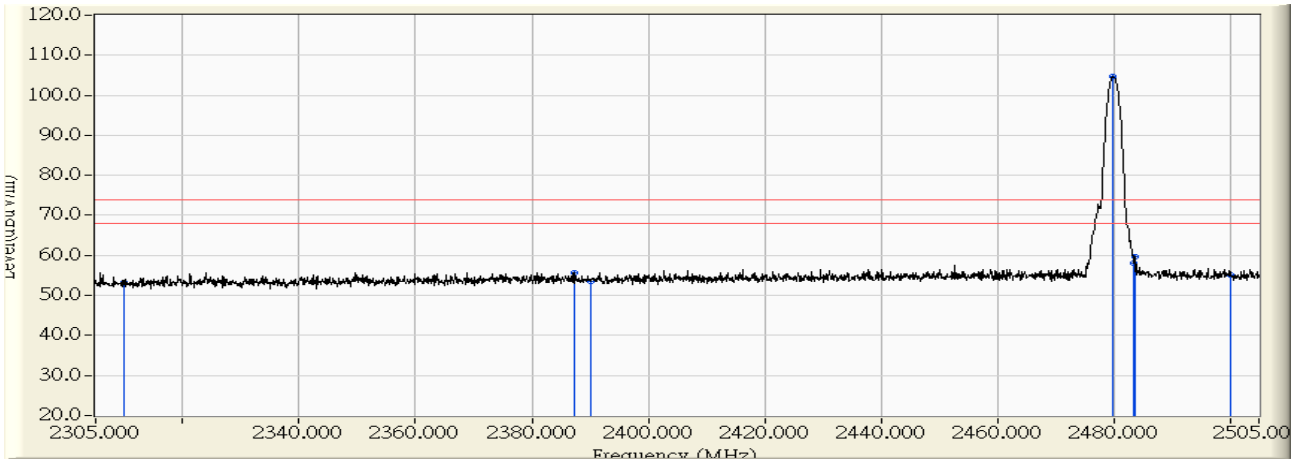


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	30.411	11.930	42.341	-11.659	54.000	AVERAGE
2		2389.500	31.236	12.140	43.376	-10.624	54.000	AVERAGE
3		2390.000	31.241	12.156	43.397	-10.603	54.000	AVERAGE
4	*	2402.000	31.365	65.984	97.349	43.349	54.000	AVERAGE
5		2483.500	31.980	12.324	44.303	-9.697	54.000	AVERAGE
6		2484.200	31.977	12.347	44.325	-9.675	54.000	AVERAGE
7		2500.000	31.934	12.340	44.275	-9.725	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : CB1	**Time : 2014/10/27 - 19:56**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : SAULT	**Note : Mode 2: Transmit (π/4DQPSK)-Power by PC 2480MHz**

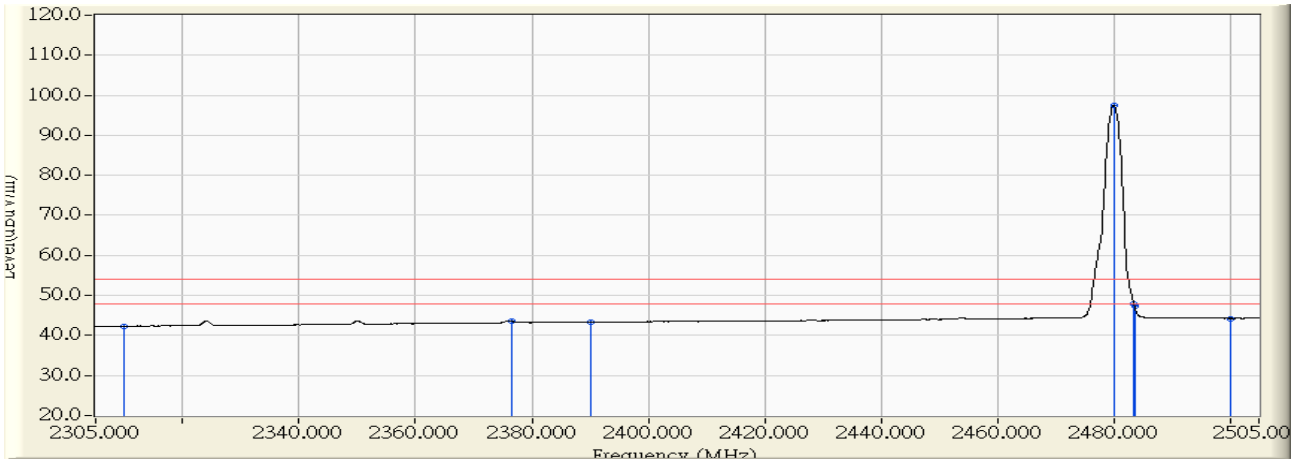


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	30.411	22.727	53.138	-20.862	74.000	PEAK
2		2387.300	31.213	24.489	55.702	-18.298	74.000	PEAK
3		2390.000	31.241	22.283	53.524	-20.476	74.000	PEAK
4	*	2479.900	31.990	72.667	104.656	30.656	74.000	PEAK
5		2483.500	31.980	26.007	57.986	-16.014	74.000	PEAK
6		2483.600	31.979	27.790	59.769	-14.231	74.000	PEAK
7		2500.000	31.934	23.239	55.174	-18.826	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : CB1	**Time : 2014/10/27 - 19:56**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : SAULT	**Note : Mode 2: Transmit (π/4DQPSK)-Power by PC 2480MHz**

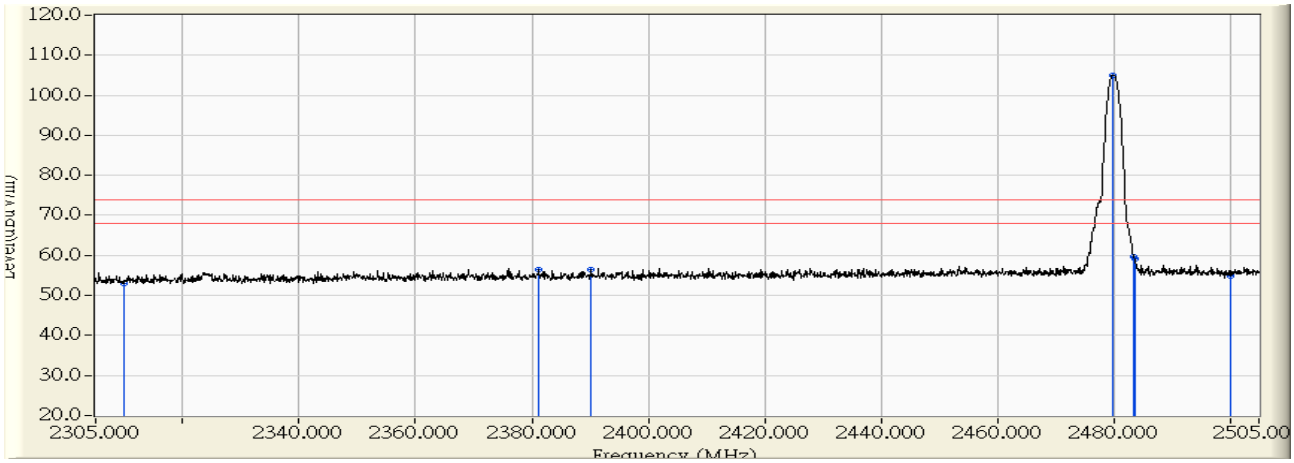


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	30.411	11.914	42.325	-11.675	54.000	AVERAGE
2		2376.500	31.101	12.465	43.566	-10.434	54.000	AVERAGE
3		2390.000	31.241	12.161	43.402	-10.598	54.000	AVERAGE
4	*	2480.000	31.989	65.486	97.475	43.475	54.000	AVERAGE
5		2483.500	31.980	15.877	47.856	-6.144	54.000	AVERAGE
6		2483.600	31.979	15.313	47.292	-6.708	54.000	AVERAGE
7		2500.000	31.934	12.319	44.254	-9.746	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : CB1	**Time : 2014/10/27 - 20:02**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : SAULT	**Note : Mode 2: Transmit (π/4DQPSK)-Power by PC 2480MHz**

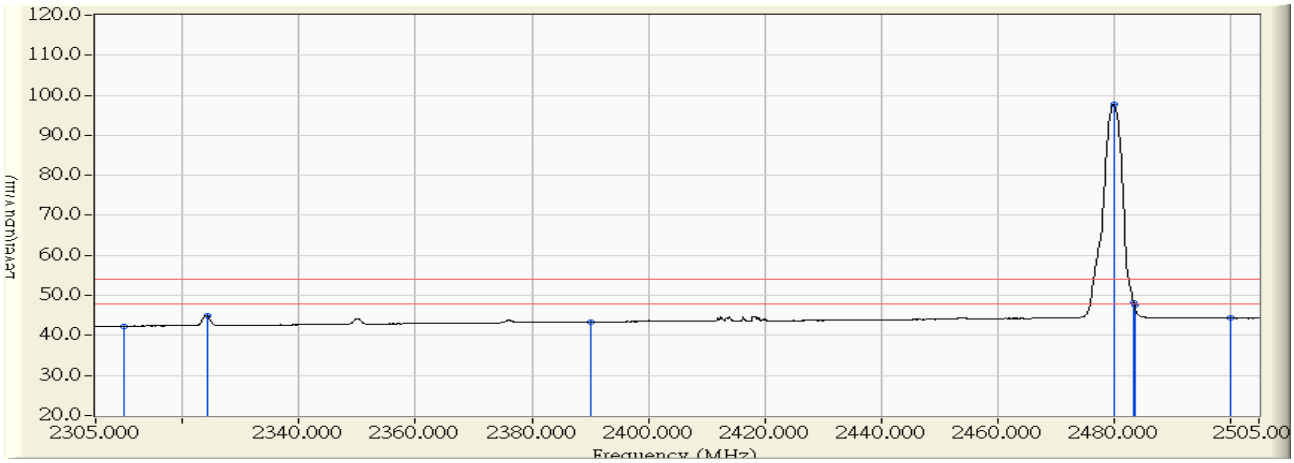


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	30.411	22.665	53.076	-20.924	74.000	PEAK
2		2381.200	31.150	25.354	56.504	-17.496	74.000	PEAK
3		2390.000	31.241	25.281	56.522	-17.478	74.000	PEAK
4	*	2479.800	31.989	73.103	105.093	31.093	74.000	PEAK
5		2483.500	31.980	27.815	59.794	-14.206	74.000	PEAK
6		2483.600	31.979	27.120	59.099	-14.901	74.000	PEAK
7		2500.000	31.934	23.030	54.965	-19.035	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : CB1	**Time : 2014/10/27 - 20:03**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : SAULT	**Note : Mode 2: Transmit (π/4DQPSK)-Power by PC 2480MHz**

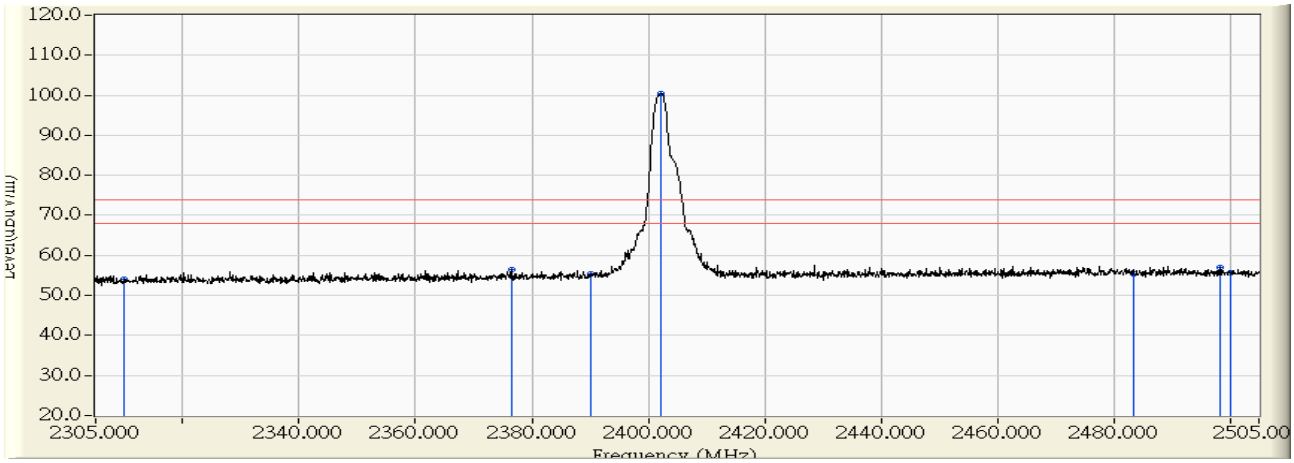


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	30.411	11.902	42.313	-11.687	54.000	AVERAGE
2		2324.200	30.558	14.332	44.891	-9.109	54.000	AVERAGE
3		2390.000	31.241	12.193	43.434	-10.566	54.000	AVERAGE
4	*	2480.000	31.989	65.879	97.868	43.868	54.000	AVERAGE
5		2483.500	31.980	16.113	48.092	-5.908	54.000	AVERAGE
6		2483.600	31.979	15.514	47.493	-6.507	54.000	AVERAGE
7		2500.000	31.934	12.331	44.266	-9.734	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : CB1	**Time : 2014/10/27 - 20:08**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : SAULT	**Note : Mode 3: Transmit (8DQPSK)-Power by PC 2402MHz**

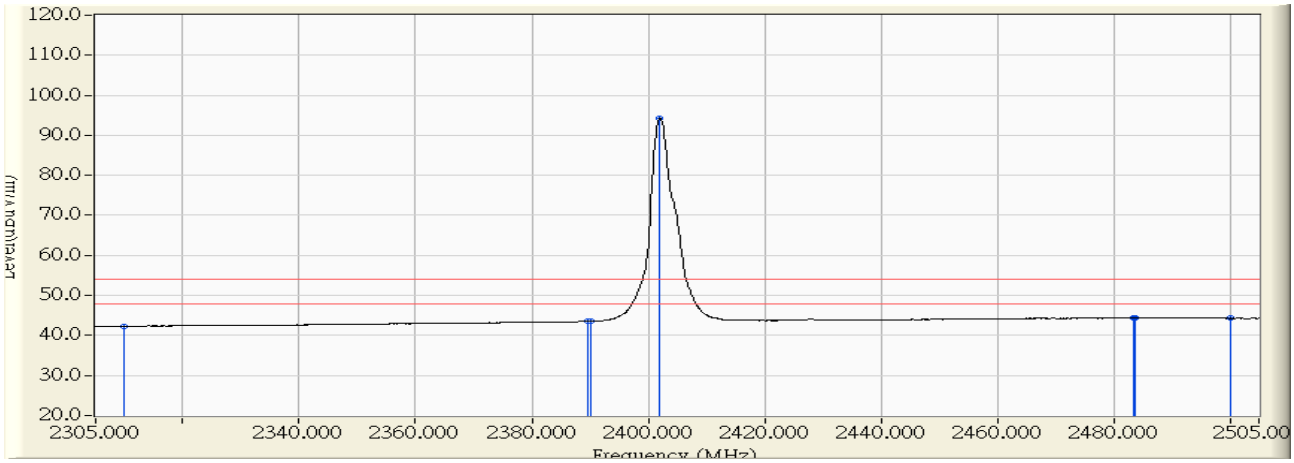


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	30.411	23.666	54.077	-19.923	74.000	PEAK
2		2376.500	31.101	25.436	56.537	-17.463	74.000	PEAK
3		2390.000	31.241	24.082	55.323	-18.677	74.000	PEAK
4	*	2402.300	31.369	69.090	100.458	26.458	74.000	PEAK
5		2483.500	31.980	23.320	55.299	-18.701	74.000	PEAK
6		2498.300	31.939	24.982	56.921	-17.079	74.000	PEAK
7		2500.000	31.934	23.747	55.682	-18.318	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : CB1	**Time : 2014/10/27 - 20:09**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : SAULT	**Note : Mode 3: Transmit (8DQPSK)-Power by PC 2402MHz**

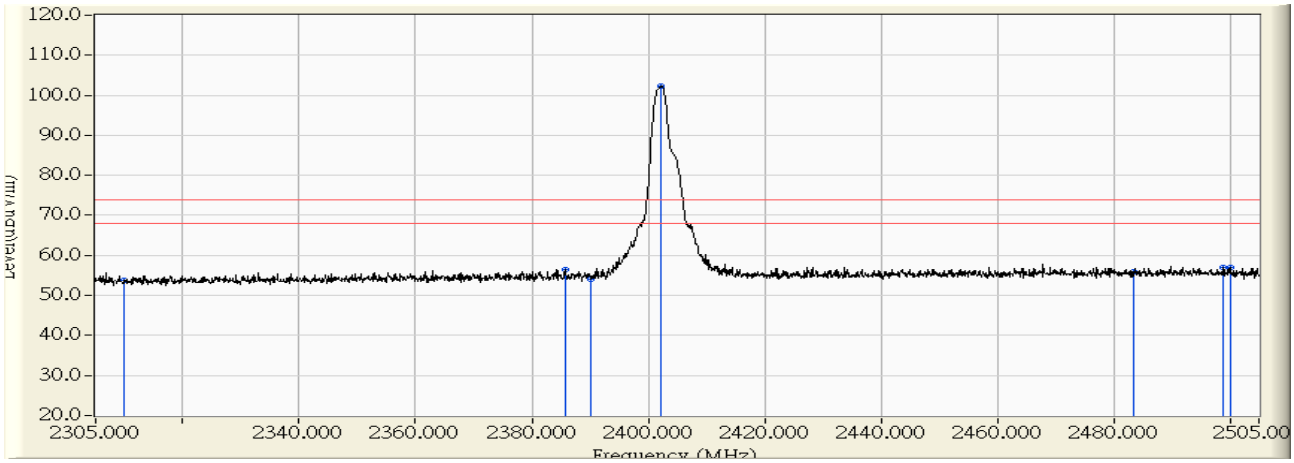


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	30.411	11.915	42.326	-11.674	54.000	AVERAGE
2		2389.500	31.236	12.309	43.545	-10.455	54.000	AVERAGE
3		2390.000	31.241	12.320	43.561	-10.439	54.000	AVERAGE
4	*	2402.000	31.365	62.965	94.330	40.330	54.000	AVERAGE
5		2483.500	31.980	12.350	44.329	-9.671	54.000	AVERAGE
6		2483.600	31.979	12.317	44.296	-9.704	54.000	AVERAGE
7		2500.000	31.934	12.328	44.263	-9.737	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : CB1	**Time : 2014/10/27 - 20:13**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : SAULT	**Note : Mode 3: Transmit (8DQPSK)-Power by PC 2402MHz**

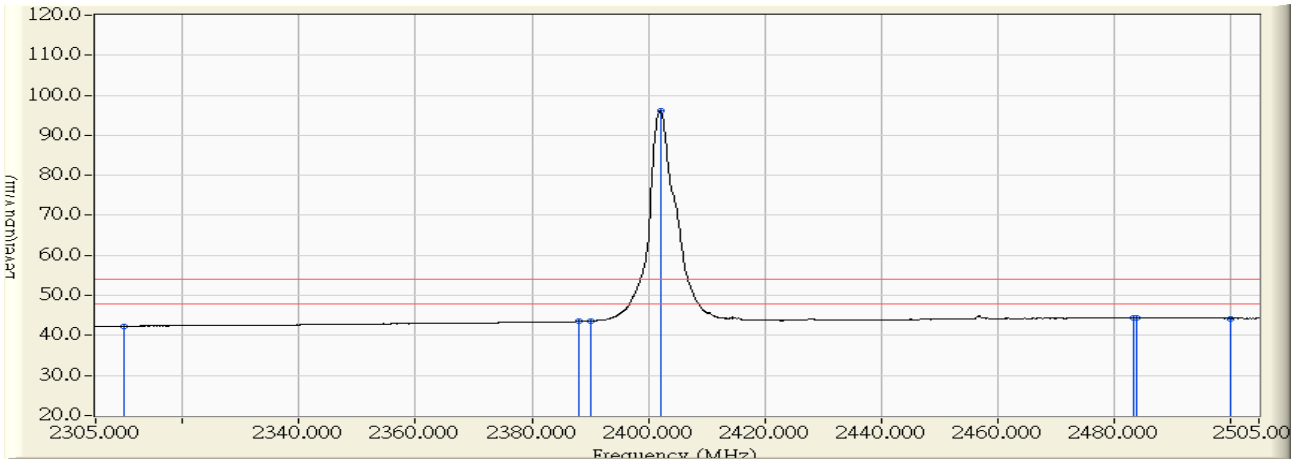


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	30.411	23.320	53.731	-20.269	74.000	PEAK
2		2385.700	31.196	25.241	56.437	-17.563	74.000	PEAK
3		2390.000	31.241	22.704	53.945	-20.055	74.000	PEAK
4	*	2402.300	31.369	70.904	102.272	28.272	74.000	PEAK
5		2483.500	31.980	23.916	55.895	-18.105	74.000	PEAK
6		2498.800	31.937	25.154	57.092	-16.908	74.000	PEAK
7		2500.000	31.934	25.029	56.964	-17.036	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : CB1	**Time : 2014/10/27 - 20:14**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : SAULT	**Note : Mode 3: Transmit (8DQPSK)-Power by PC 2402MHz**

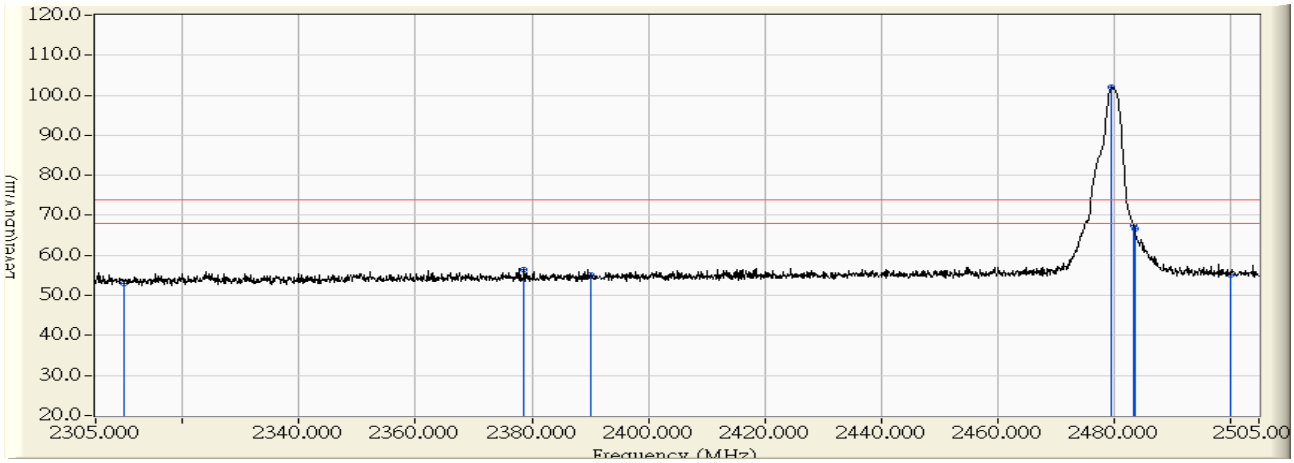


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	30.411	11.907	42.318	-11.682	54.000	AVERAGE
2		2388.100	31.221	12.323	43.544	-10.456	54.000	AVERAGE
3		2390.000	31.241	12.368	43.609	-10.391	54.000	AVERAGE
4	*	2402.100	31.366	64.705	96.071	42.071	54.000	AVERAGE
5		2483.500	31.980	12.380	44.359	-9.641	54.000	AVERAGE
6		2483.900	31.978	12.336	44.314	-9.686	54.000	AVERAGE
7		2500.000	31.934	12.310	44.245	-9.755	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : CB1	**Time : 2014/10/27 - 20:21**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : SAULT	**Note : Mode 3: Transmit (8DQPSK)-Power by PC 2480MHz**

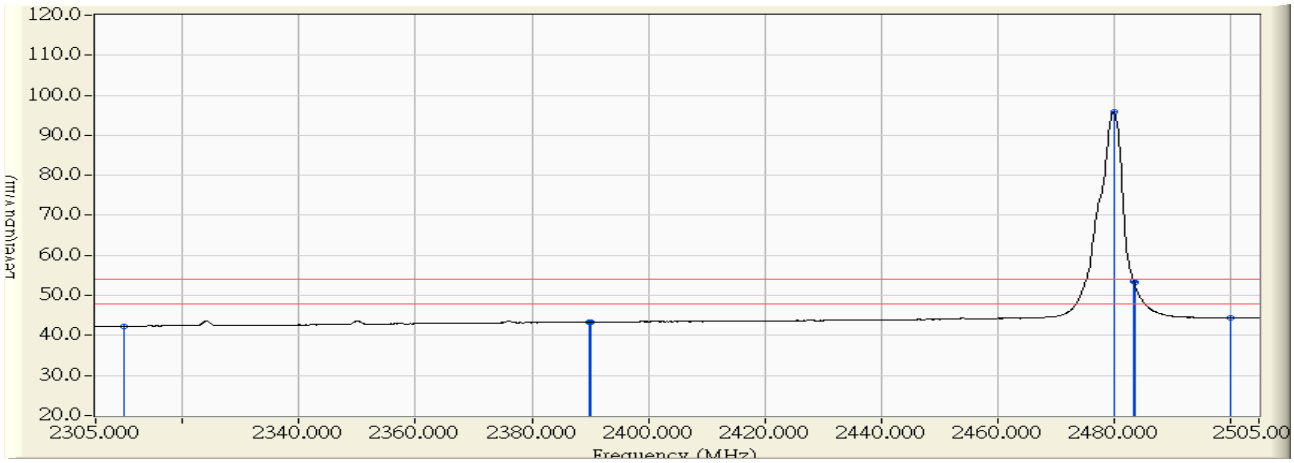


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	30.411	22.496	52.907	-21.093	74.000	PEAK
2		2378.600	31.123	25.338	56.461	-17.539	74.000	PEAK
3		2390.000	31.241	23.961	55.202	-18.798	74.000	PEAK
4	*	2479.700	31.989	70.072	102.062	28.062	74.000	PEAK
5		2483.500	31.980	35.557	67.536	-6.464	74.000	PEAK
6		2483.600	31.979	34.779	66.758	-7.242	74.000	PEAK
7		2500.000	31.934	23.156	55.091	-18.909	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : CB1	**Time : 2014/10/27 - 20:22**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : SAULT	**Note : Mode 3: Transmit (8DQPSK)-Power by PC 2480MHz**

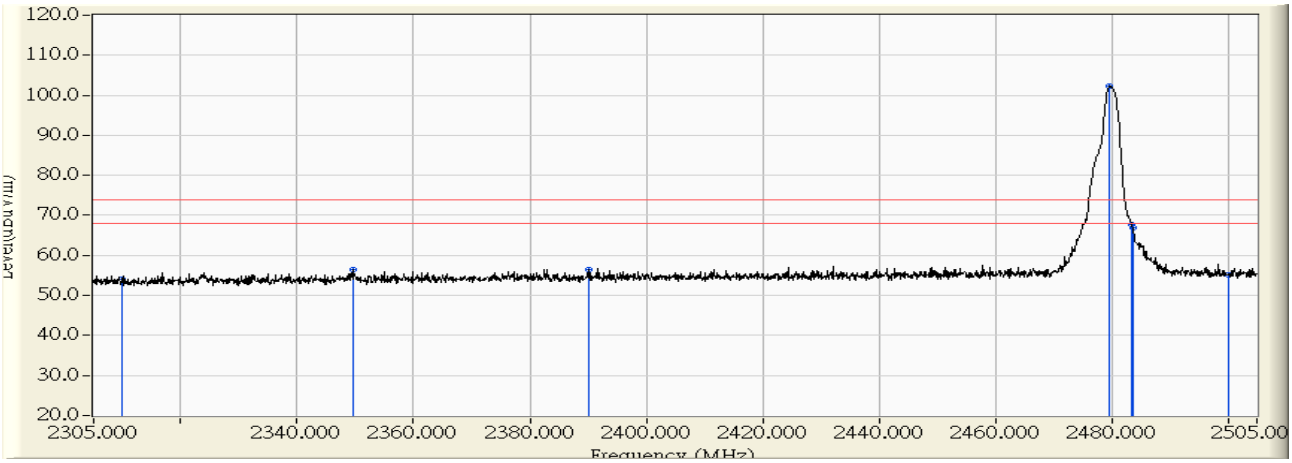


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	30.411	11.929	42.340	-11.660	54.000	AVERAGE
2		2389.800	31.239	12.122	43.361	-10.639	54.000	AVERAGE
3		2390.000	31.241	12.107	43.348	-10.652	54.000	AVERAGE
4	*	2480.000	31.989	63.904	95.893	41.893	54.000	AVERAGE
5		2483.500	31.980	21.519	53.498	-0.502	54.000	AVERAGE
6		2483.600	31.979	21.136	53.115	-0.885	54.000	AVERAGE
7		2500.000	31.934	12.454	44.389	-9.611	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : CB1	**Time : 2014/10/27 - 20:25**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : SAULT	**Note : Mode 3: Transmit (8DQPSK)-Power by PC 2480MHz**

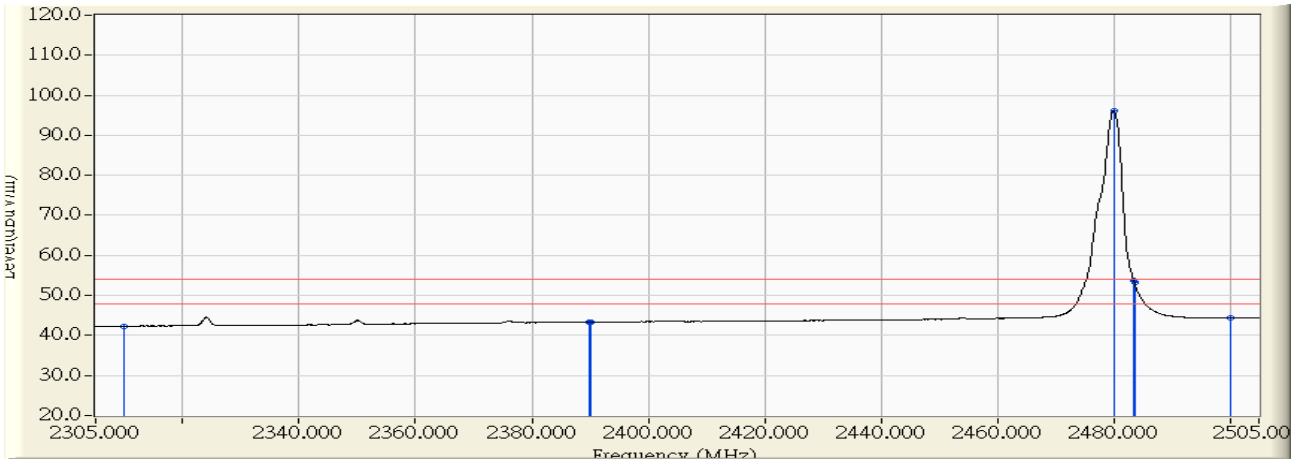


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	30.411	23.703	54.114	-19.886	74.000	PEAK
2		2349.500	30.821	25.690	56.511	-17.489	74.000	PEAK
3		2390.000	31.241	25.323	56.564	-17.436	74.000	PEAK
4	*	2479.600	31.990	70.351	102.341	28.341	74.000	PEAK
5		2483.500	31.980	35.800	67.779	-6.221	74.000	PEAK
6		2483.700	31.979	34.836	66.815	-7.185	74.000	PEAK
7		2500.000	31.934	23.208	55.143	-18.857	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Site : CB1	**Time : 2014/10/27 - 20:27**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	**Power : AC 120V/60Hz**
EUT : SAULT	**Note : Mode 3: Transmit (8DQPSK)-Power by PC 2480MHz**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	30.411	11.915	42.326	-11.674	54.000	AVERAGE
2		2389.800	31.239	12.166	43.405	-10.595	54.000	AVERAGE
3		2390.000	31.241	12.141	43.382	-10.618	54.000	AVERAGE
4	*	2480.000	31.989	64.147	96.136	42.136	54.000	AVERAGE
5		2483.500	31.980	21.714	53.693	-0.307	54.000	AVERAGE
6		2483.600	31.979	21.332	53.311	-0.689	54.000	AVERAGE
7		2500.000	31.934	12.360	44.295	-9.705	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

7. Number of hopping frequency

7.1. Test Equipment

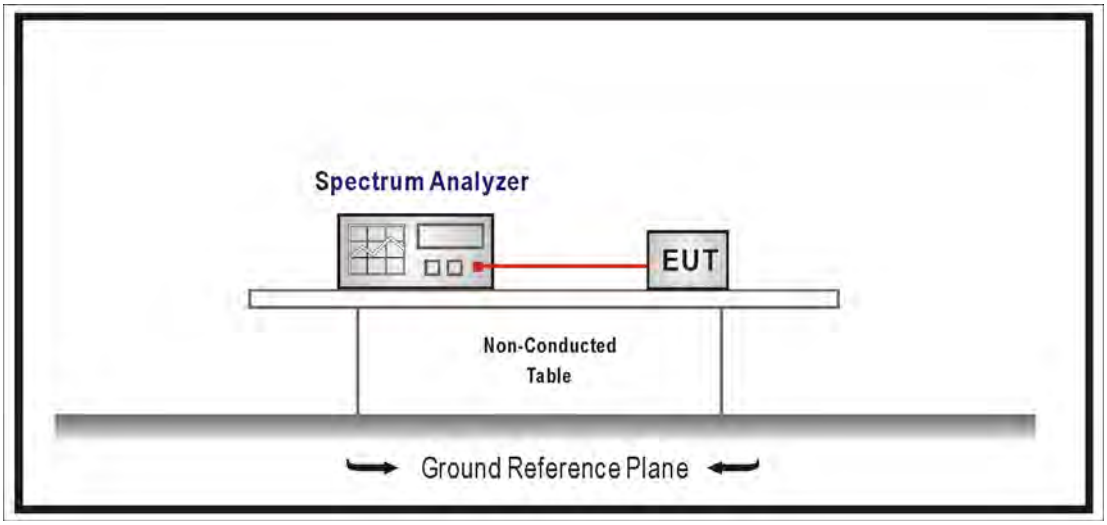
The following test equipment is used during the test:

Number of hopping frequency / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2015/07/14

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

7.2. Test Setup



7.3. Limits

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

For frequency hopping systems operating in the 2400-2483.5 MHz bands, which use fewer than 75 hopping frequencies, may employ intelligent hopping techniques to avoid interference to other transmissions. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 non-overlapping channels are used.

For frequency hopping systems operating in the 5725-5850 MHz band shall use at least 75 hopping frequencies.

7.4. Test Procedures

The EUT was setup according to ANSI C63.10:2013 and tested according to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements ,

Span = the frequency band of operation ,RBW ≥ 1% of the span , VBW ≥ RBW ,

Sweep = auto, Detector function = peak, Trace = max hold.

7.5. Test Specification

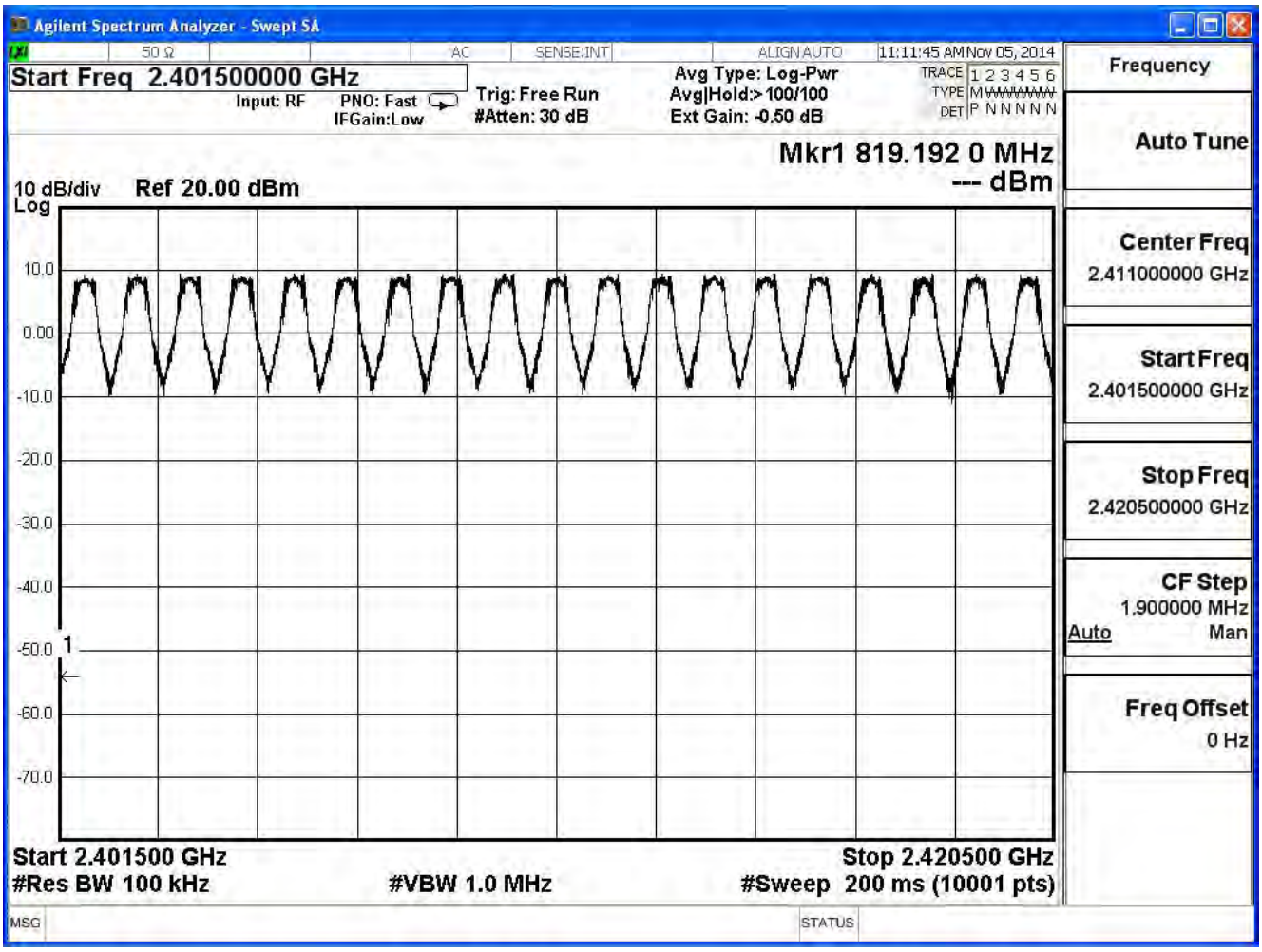
According to FCC Part 15 Subpart C Paragraph 15.247: 2013

7.6. Test Result

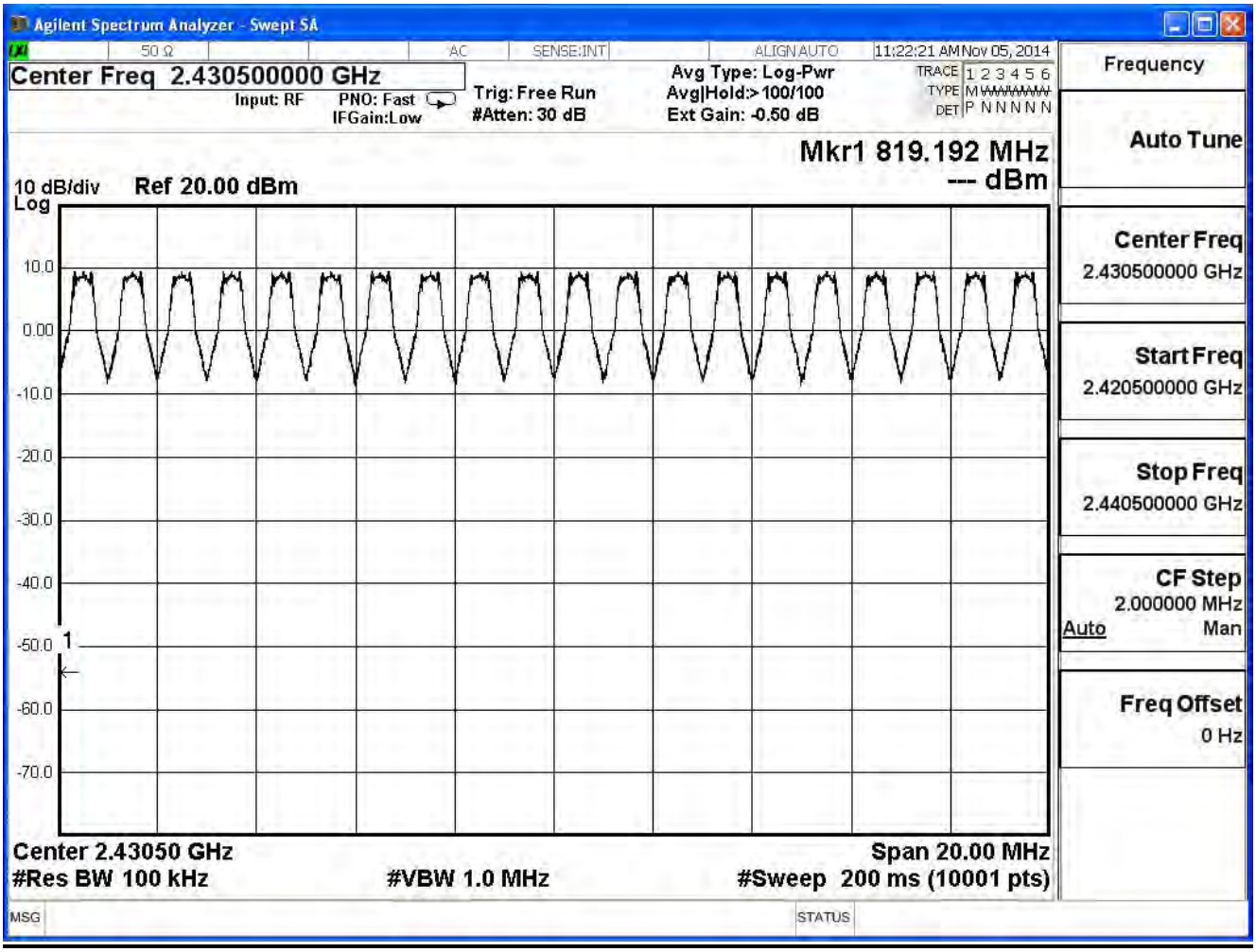
Product	SALUT		
Test Item	Number of hopping frequency		
Test Mode	Mode 1: Transmit (GFSK)-Power by PC		
Date of Test	2014/11/04	Test Site	SR7

Frequency Range (MHz)	Measure Level (Channels)	Limit (Channels)	Result
2402 ~ 2480	79	≧75	Pass

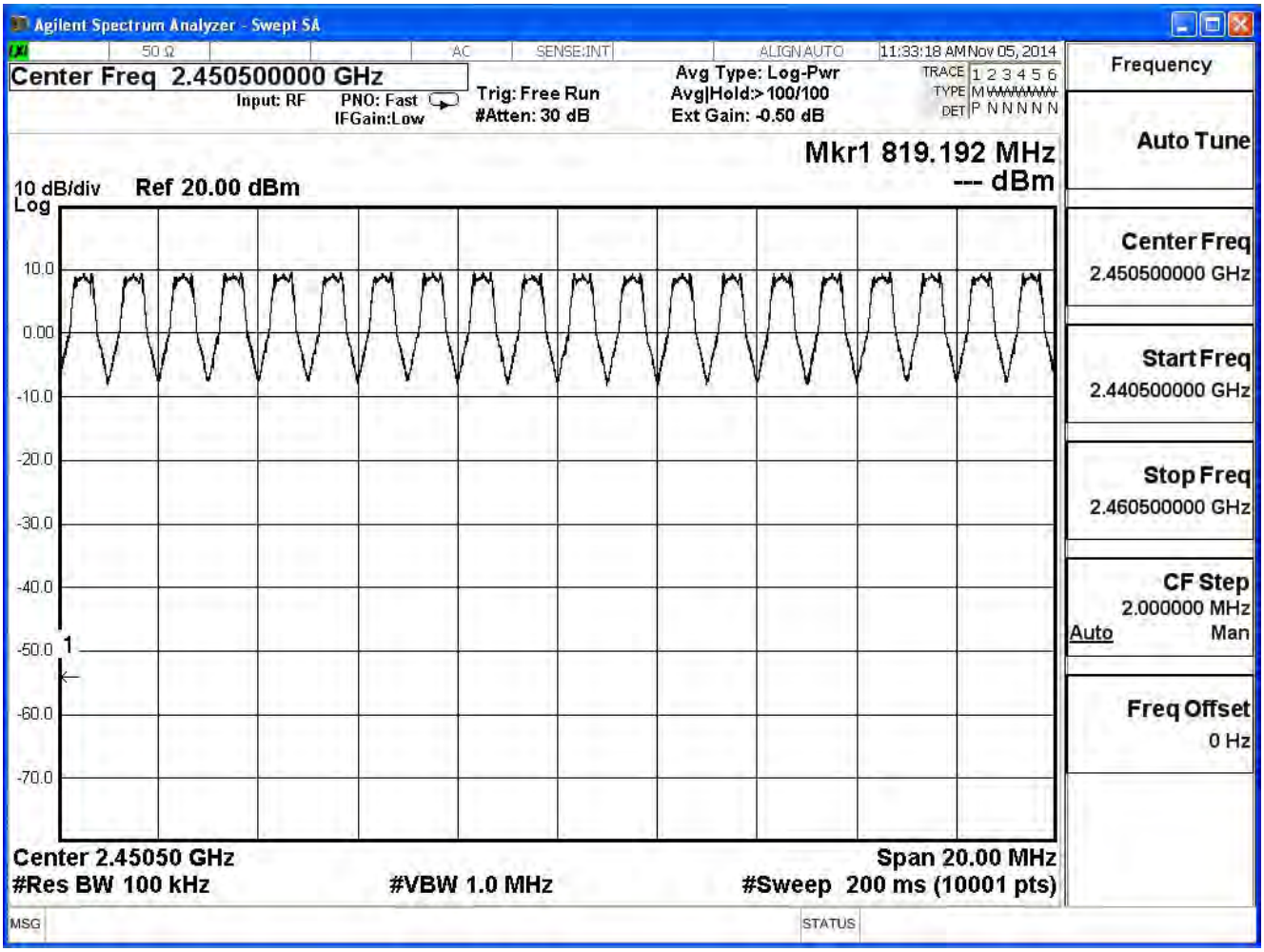
2401.5-2420.5MHz



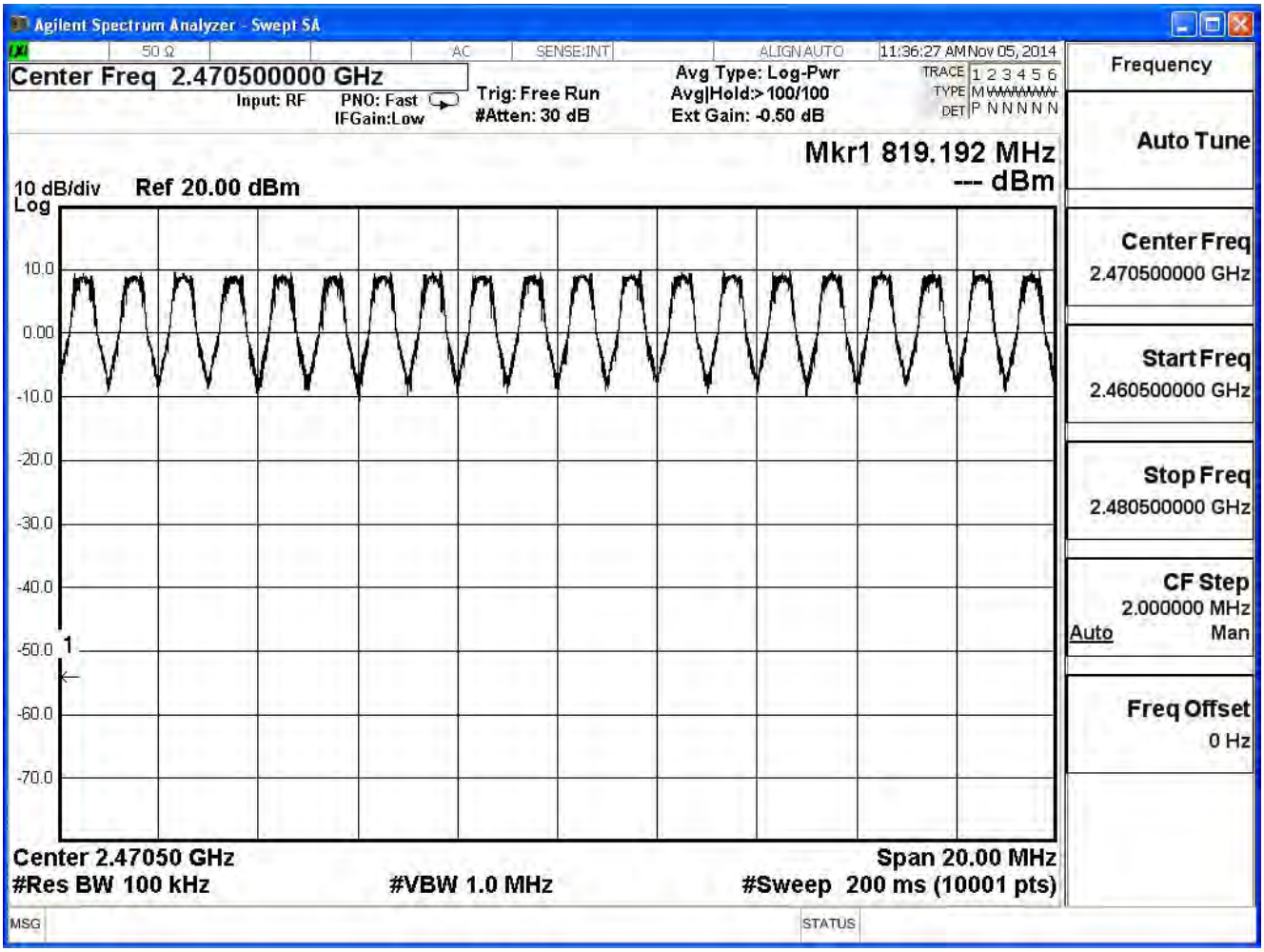
2420.5-2440.5MHz



2440.5-2460.5MHz



2460.5-2480.5MHz



8. Carrier Frequency Separation

8.1. Test Equipment

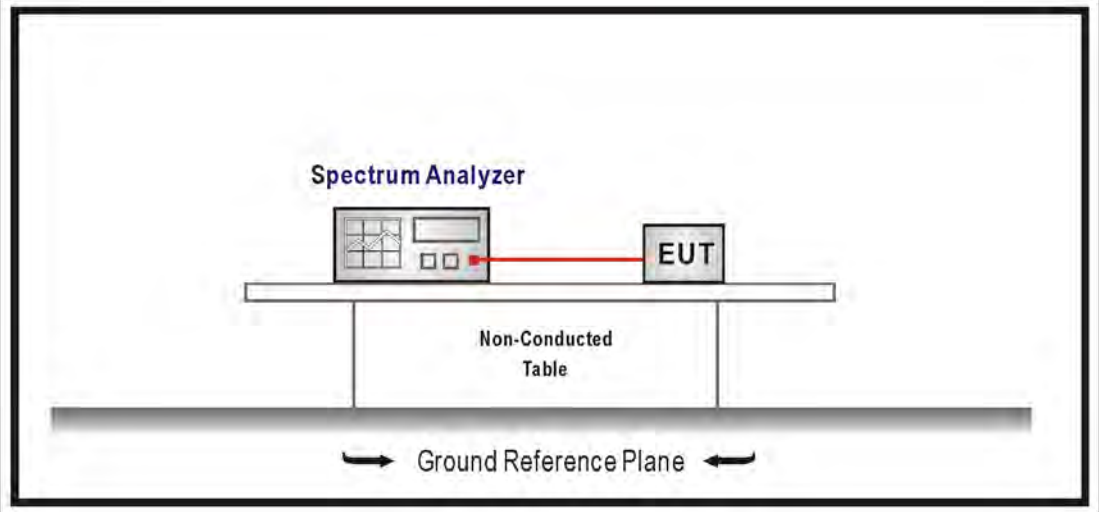
The following test equipment is used during the test:

Carrier Frequency Separation / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2015/07/14

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

8.2. Test Setup



8.3. Limits

For frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

8.4. Test Procedures

The EUT was setup according to ANSI C63.10:2013 and tested according to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements

Span = wide enough to capture the peaks of two adjacent channels

Resolution Bandwidth (RBW) ≥ 1% of the span, VBW ≥ RBW

Sweep = auto, Detector function = peak, Trace = max hold

8.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2013

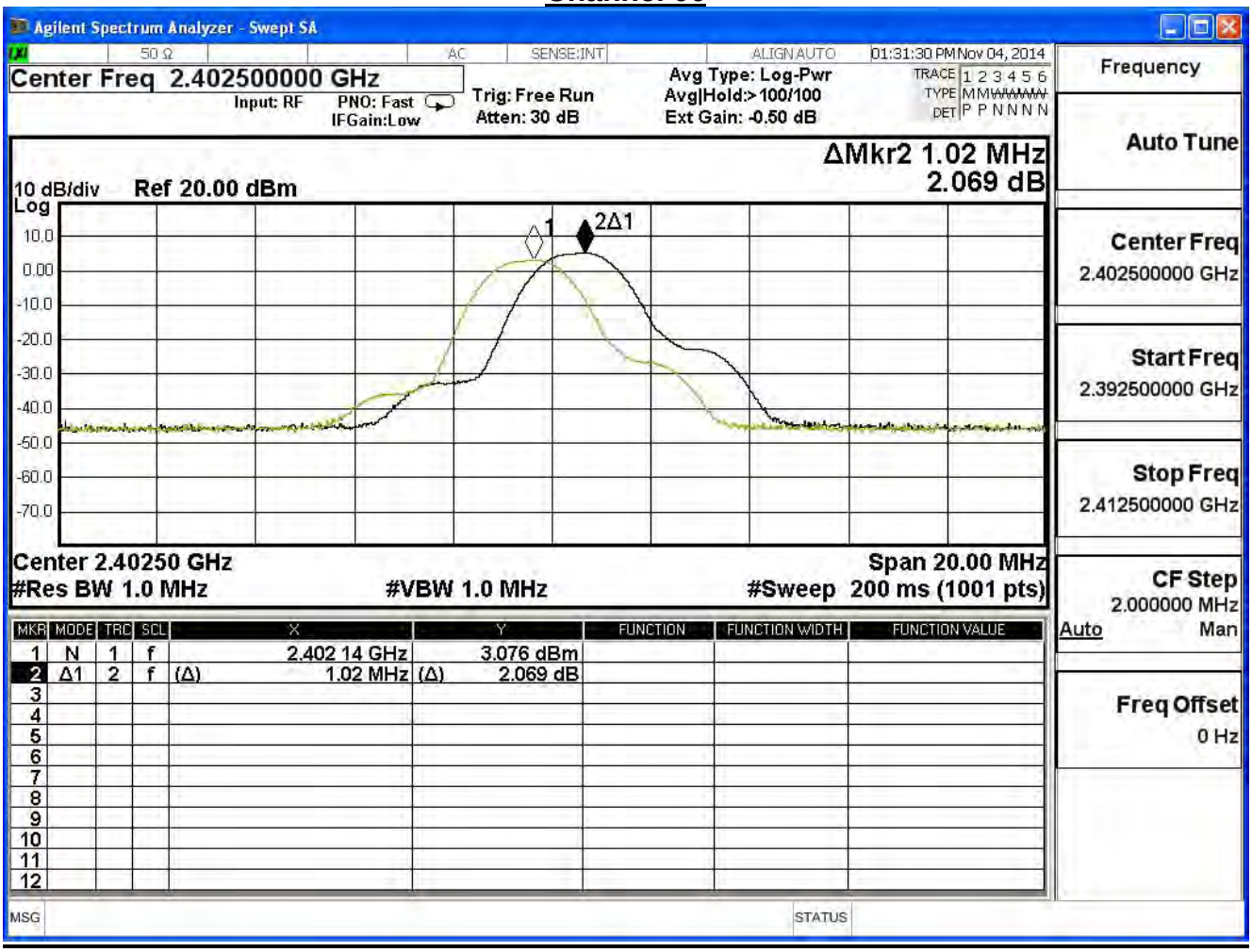
8.6. Test Result

Product	SALUT		
Test Item	Carrier Frequency Separation		
Test Mode	Mode 1: Transmit (GFSK)-Power by PC		
Date of Test	2014/11/04	Test Site	SR7

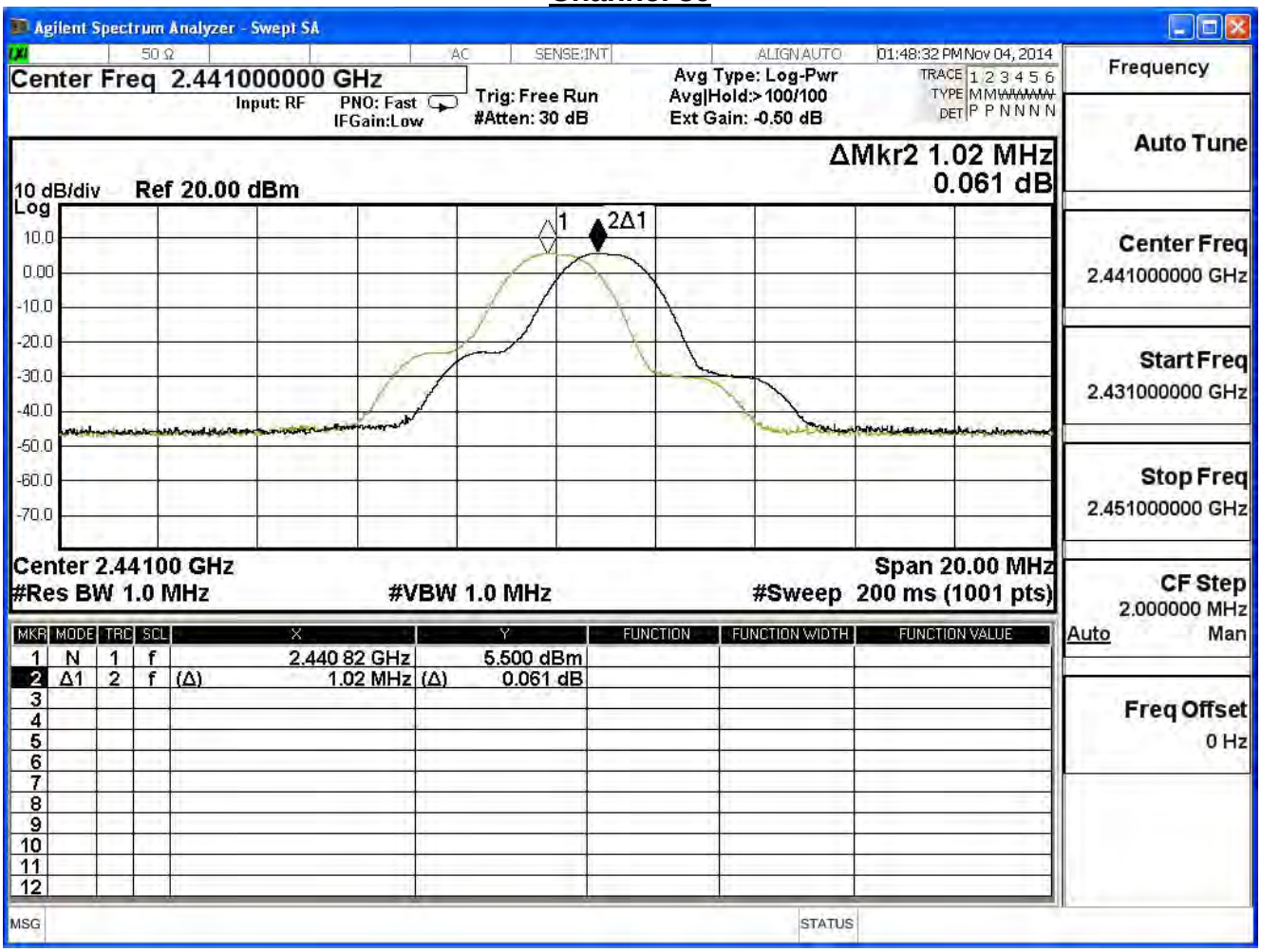
GFSK

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
00	2402	1.020	0.729	Pass
39	2441	1.020	0.725	Pass
78	2480	1.000	0.719	Pass

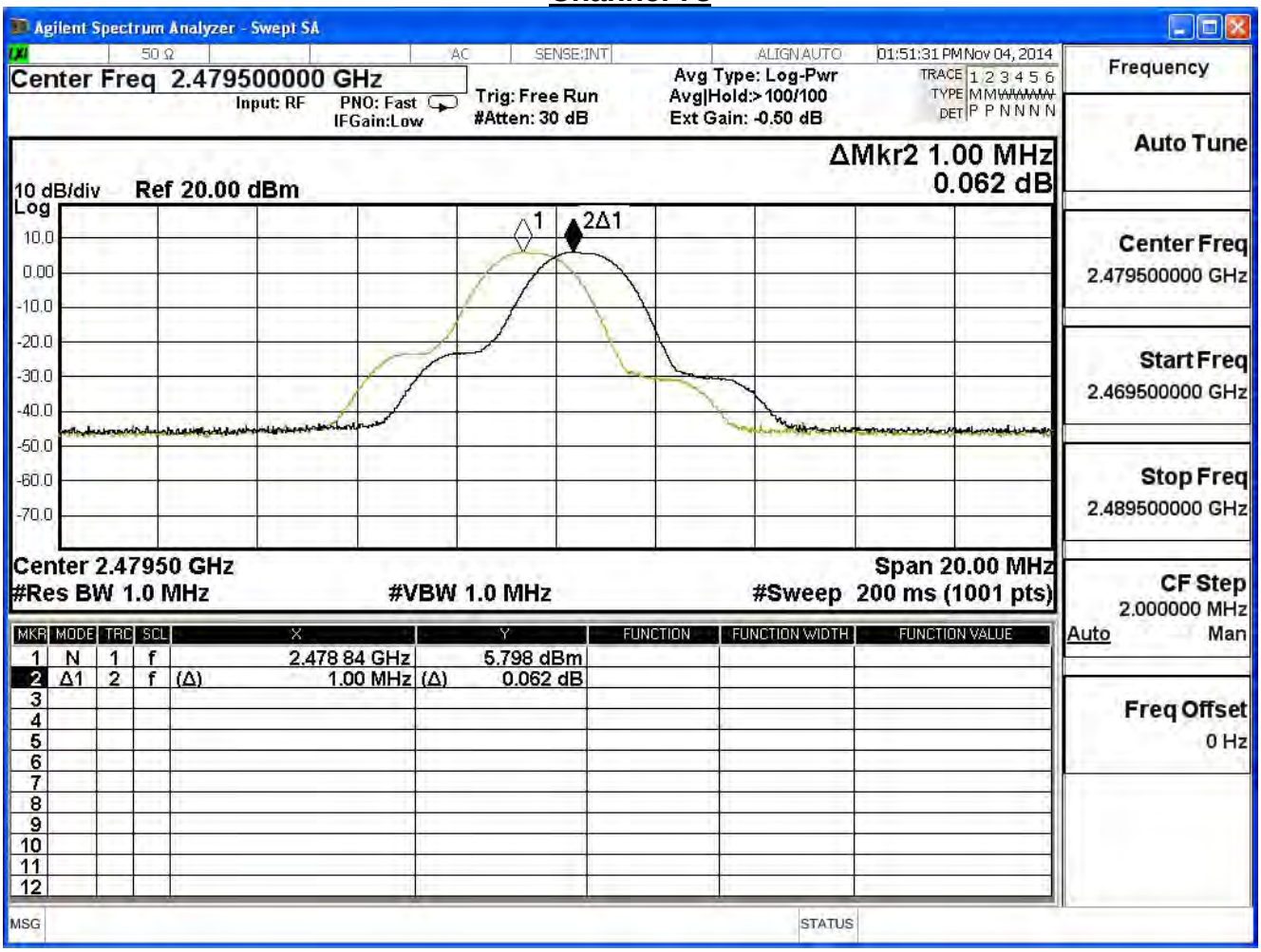
Channel 00



Channel 39


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.441000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -0.50 dB
01:48:32 PM Nov 04, 2014
ΔMkr2 1.02 MHz
0.061 dB
10 dB/div
Log
Ref 20.00 dBm
Center 2.44100 GHz
#Res BW 1.0 MHz
#VBW 1.0 MHz
Span 20.00 MHz
#Sweep 200 ms (1001 pts)
1 N 1 f 2.440 82 GHz 5.500 dBm
2 Δ1 2 f (Δ) 1.02 MHz (Δ) 0.061 dB
Frequency
Auto Tune
Center Freq
2.441000000 GHz
Start Freq
2.431000000 GHz
Stop Freq
2.451000000 GHz
CF Step
2.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Channel 78

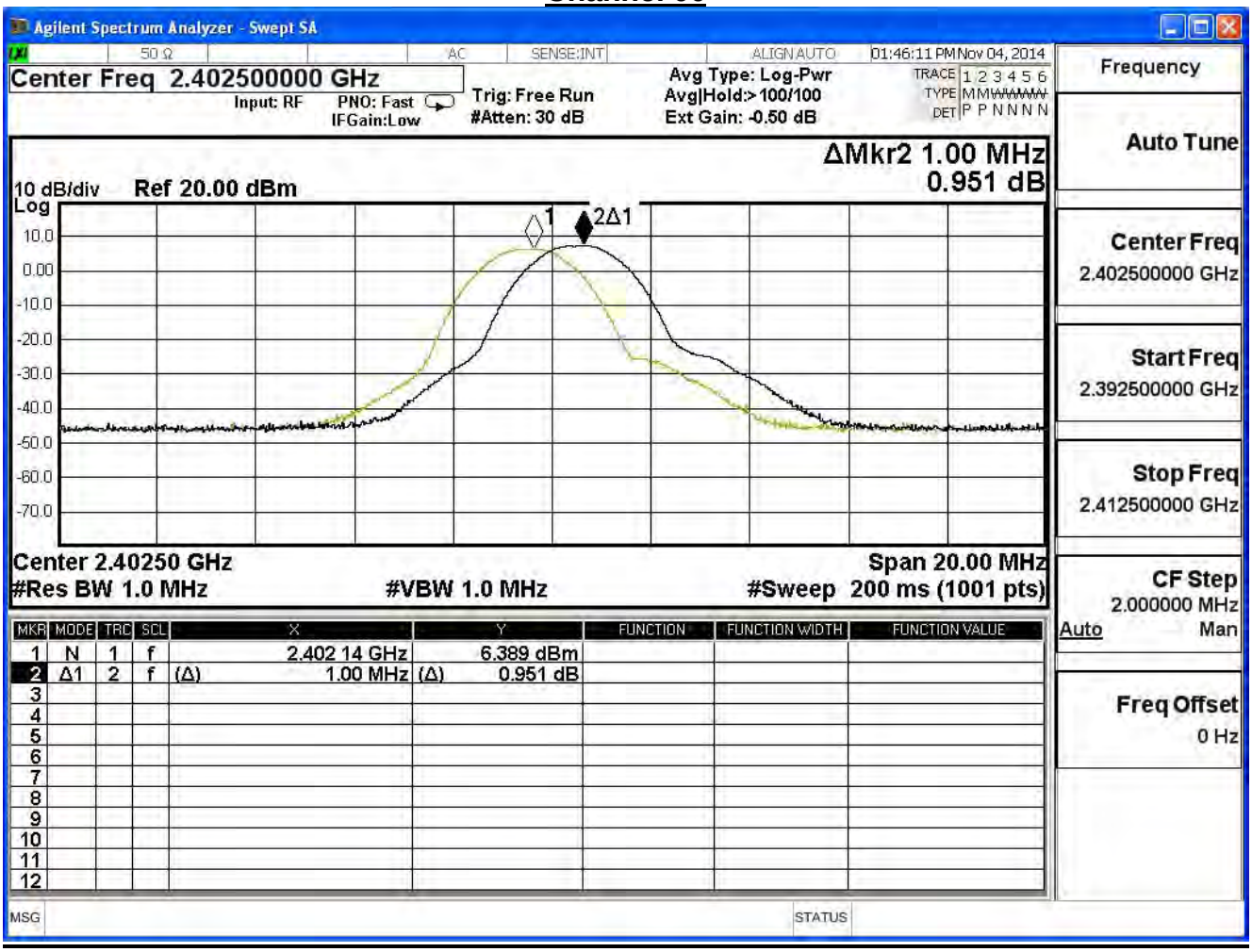

Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
01:51:31 PM Nov 04, 2014
Center Freq 2.479500000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -0.50 dB
TRACE 1 2 3 4 5 6
TYPE M M W W W W W
DET P P N N N N N
ΔMkr2 1.00 MHz
0.062 dB
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
1
2Δ1
Center 2.47950 GHz
#Res BW 1.0 MHz
#VBW 1.0 MHz
Span 20.00 MHz
#Sweep 200 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.478 84 GHz 5.798 dBm
2 Δ1 2 f (Δ) 1.00 MHz (Δ) 0.062 dB
3
4
5
6
7
8
9
10
11
12
MSG
STATUS
Frequency
Auto Tune
Center Freq
2.479500000 GHz
Start Freq
2.469500000 GHz
Stop Freq
2.489500000 GHz
CF Step
2.000000 MHz
Auto
Man
Freq Offset
0 Hz

Product	SALUT		
Test Item	Carrier Frequency Separation		
Test Mode	Mode 2: Transmit (π/4DQPSK)-Power by PC		
Date of Test	2014/11/04	Test Site	SR7

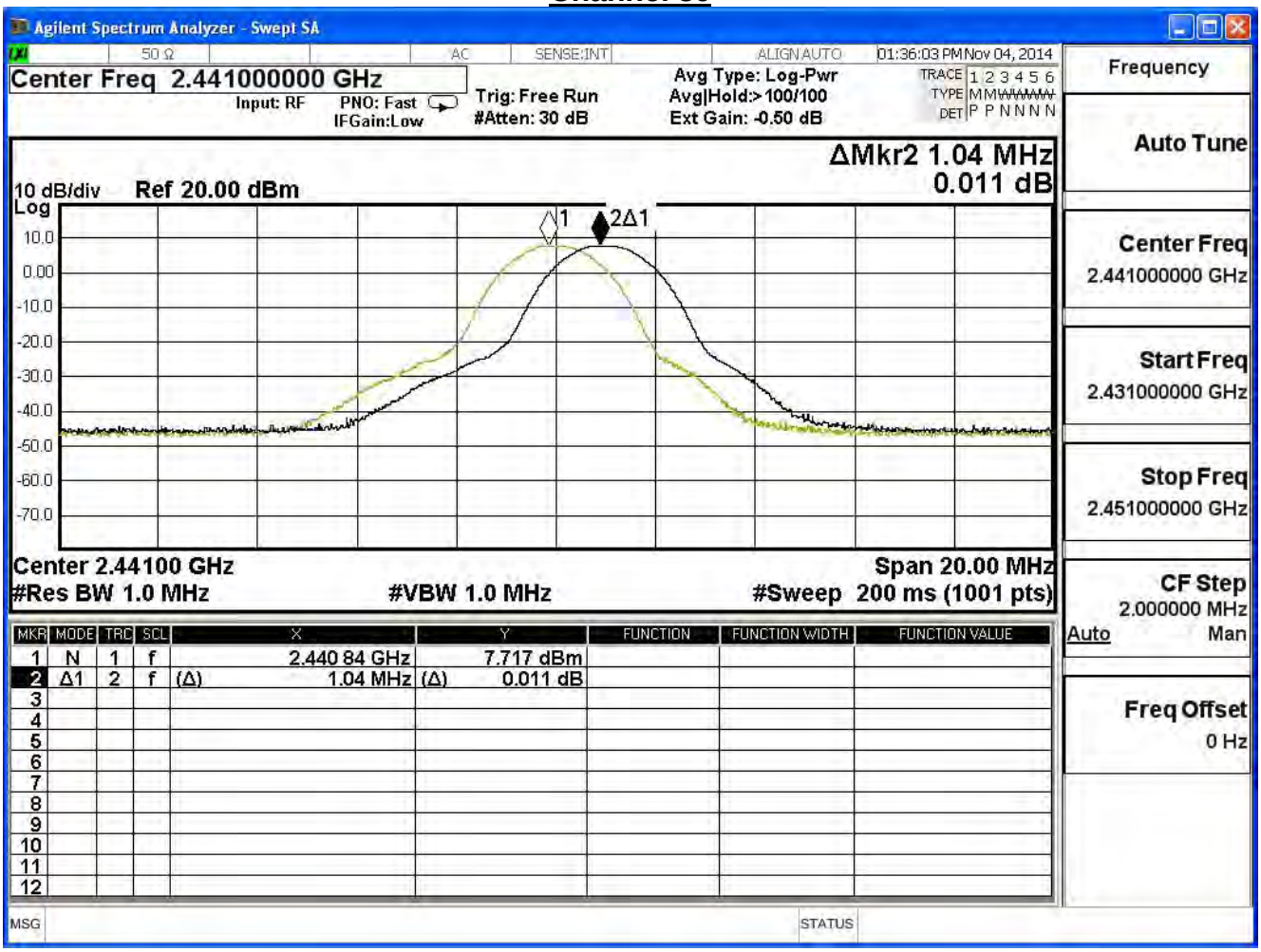
π/4-DQPSK

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
00	2402	1.000	0.908	Pass
39	2441	1.040	0.896	Pass
78	2480	1.020	0.902	Pass

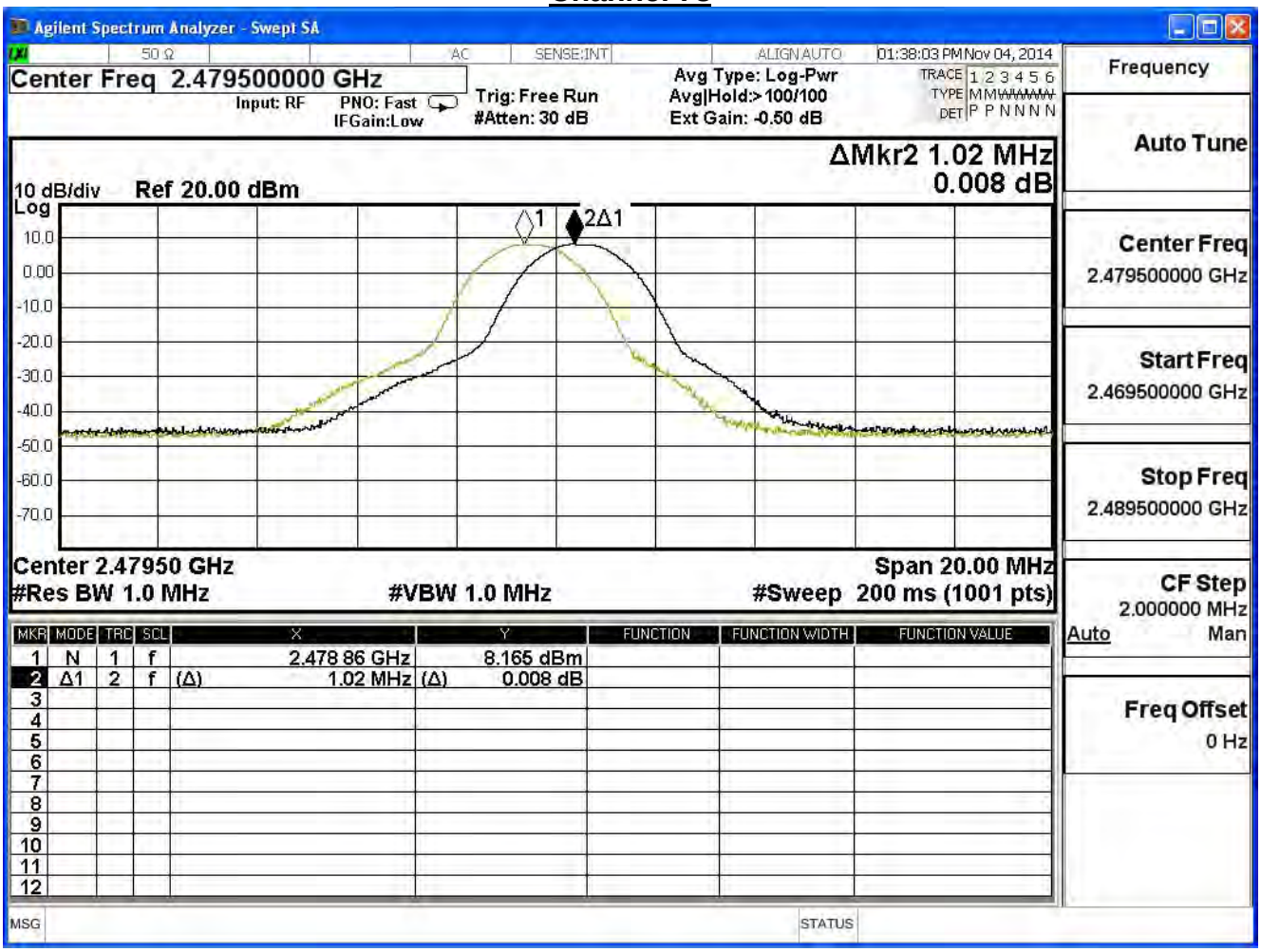
Channel 00



Channel 39


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
01:36:03 PM Nov 04, 2014
Center Freq 2.441000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -0.50 dB
TRACE 1 2 3 4 5 6
TYPE M M W W W W W
DET P P N N N N N
ΔMkr2 1.04 MHz
0.011 dB
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
1
2Δ1
Center 2.44100 GHz
#Res BW 1.0 MHz
#VBW 1.0 MHz
Span 20.00 MHz
#Sweep 200 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.440 84 GHz 7.717 dBm
2 Δ1 2 f (Δ) 1.04 MHz (Δ) 0.011 dB
3
4
5
6
7
8
9
10
11
12
MSG
STATUS
Frequency
Auto Tune
Center Freq
2.441000000 GHz
Start Freq
2.431000000 GHz
Stop Freq
2.451000000 GHz
CF Step
2.000000 MHz
Auto
Man
Freq Offset
0 Hz

Channel 78

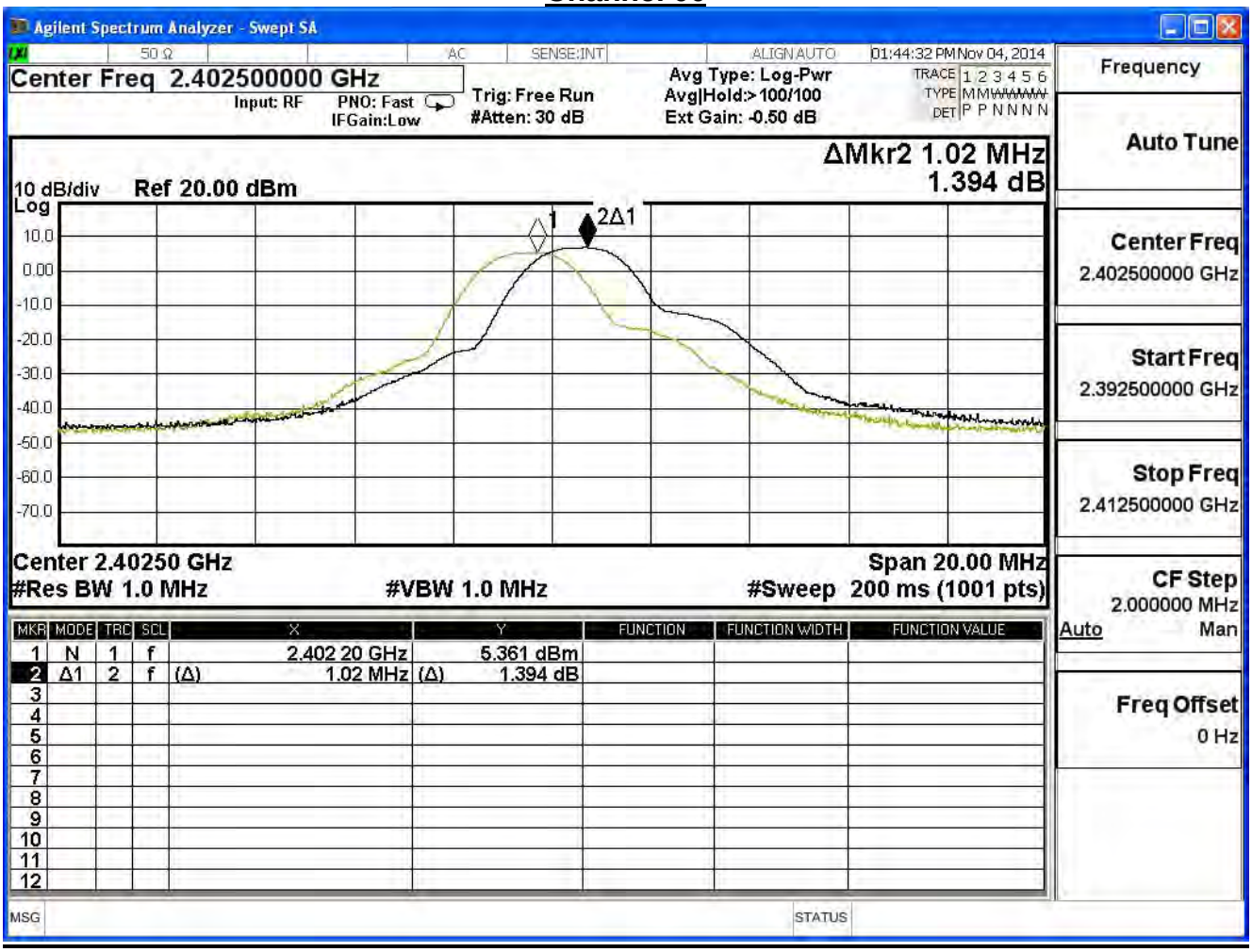

Agilent Spectrum Analyzer - Swept SA
Center Freq 2.479500000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -0.50 dB
01:38:03 PM Nov 04, 2014
ΔMkr2 1.02 MHz
0.008 dB
10 dB/div
Log
Ref 20.00 dBm
Center 2.47950 GHz
#Res BW 1.0 MHz
#VBW 1.0 MHz
Span 20.00 MHz
#Sweep 200 ms (1001 pts)
1 N 1 f 2.478 86 GHz 8.165 dBm
2 Δ1 2 f (Δ) 1.02 MHz (Δ) 0.008 dB
Frequency
Auto Tune
Center Freq
2.479500000 GHz
Start Freq
2.469500000 GHz
Stop Freq
2.489500000 GHz
CF Step
2.000000 MHz
Auto
Man
Freq Offset
0 Hz

Product	SALUT		
Test Item	Carrier Frequency Separation		
Test Mode	Mode 3: Transmit (8DQPSK)-Power by PC		
Date of Test	2014/11/04	Test Site	SR7

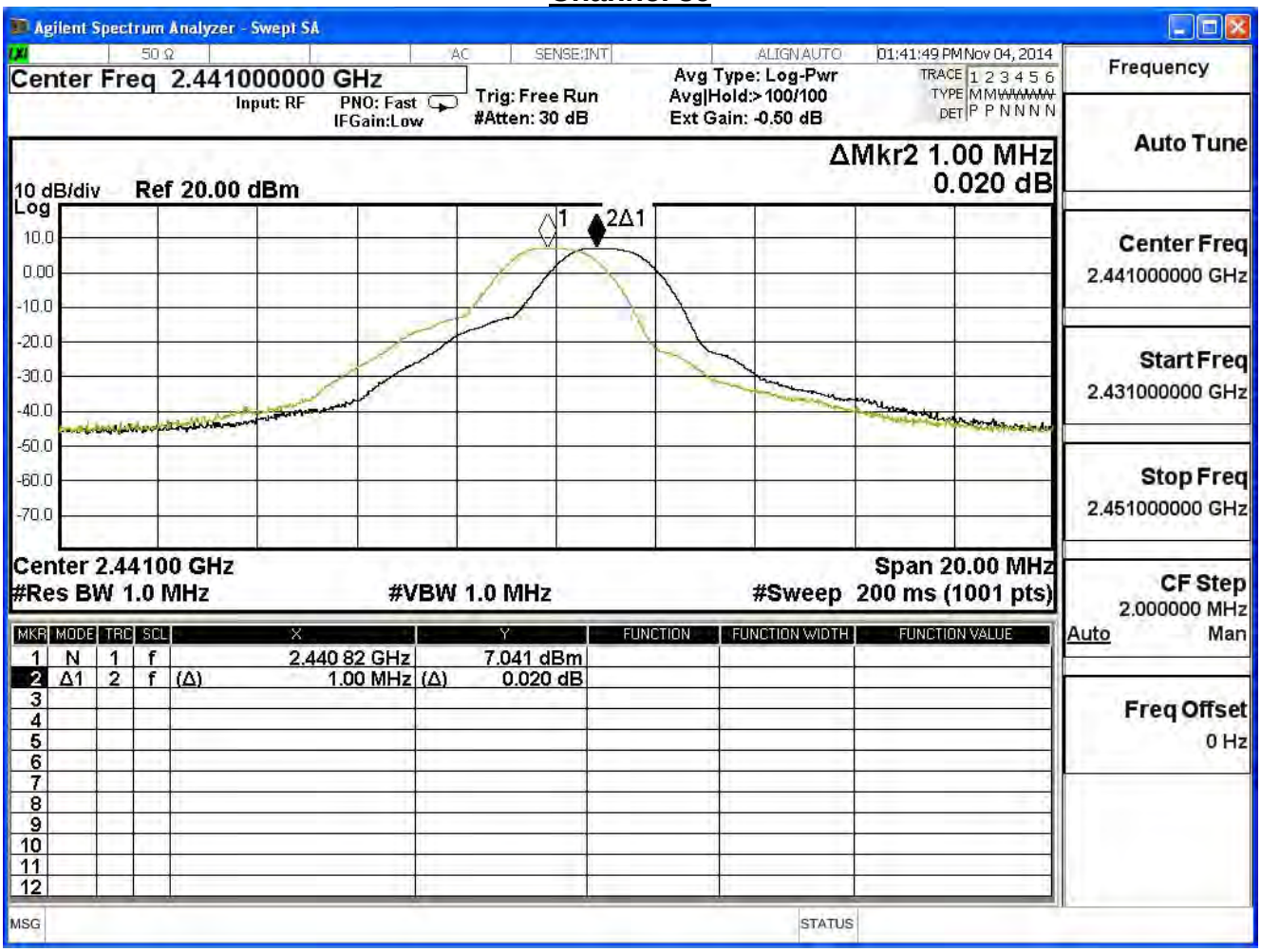
8-DQPSK

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
00	2402	1.020	0.896	Pass
39	2441	1.000	0.913	Pass
78	2480	1.000	0.917	Pass

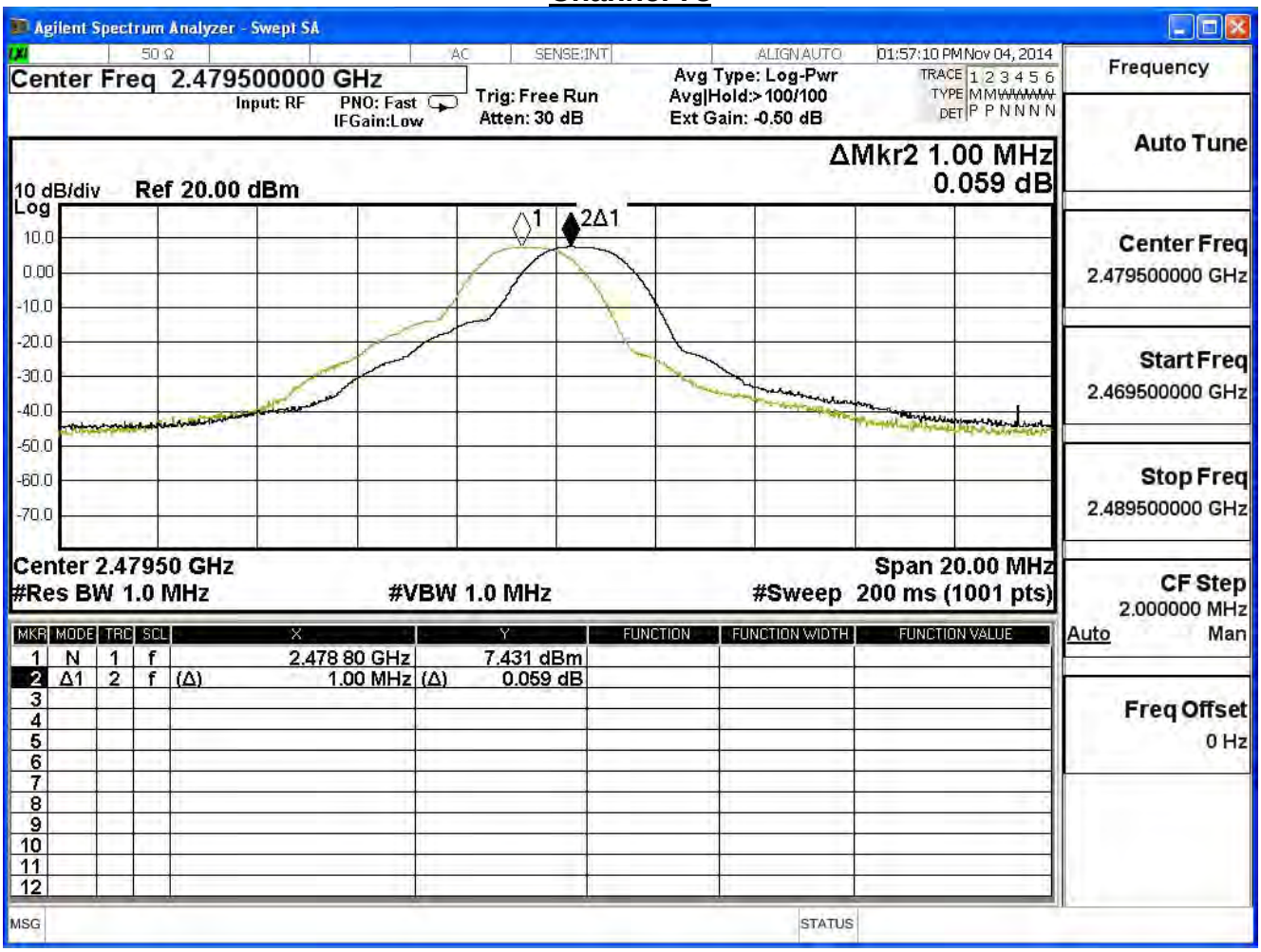
Channel 00



Channel 39


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
01:41:49 PM Nov 04, 2014
Center Freq 2.441000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -0.50 dB
TRACE 1 2 3 4 5 6
TYPE M M W W W W W
DET P P N N N N
ΔMkr2 1.00 MHz
0.020 dB
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
1
2Δ1
Center 2.44100 GHz
#Res BW 1.0 MHz
#VBW 1.0 MHz
Span 20.00 MHz
#Sweep 200 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.440 82 GHz 7.041 dBm
2 Δ1 2 f (Δ) 1.00 MHz (Δ) 0.020 dB
3
4
5
6
7
8
9
10
11
12
MSG
STATUS
Frequency
Auto Tune
Center Freq
2.441000000 GHz
Start Freq
2.431000000 GHz
Stop Freq
2.451000000 GHz
CF Step
2.000000 MHz
Auto
Man
Freq Offset
0 Hz

Channel 78


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
01:57:10 PM Nov 04, 2014
Center Freq 2.479500000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -0.50 dB
TRACE 1 2 3 4 5 6
TYPE M M W W W W W
DET P P N N N N N
ΔMkr2 1.00 MHz
0.059 dB
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
1
2Δ1
Center 2.47950 GHz
#Res BW 1.0 MHz
#VBW 1.0 MHz
Span 20.00 MHz
#Sweep 200 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.478 80 GHz 7.431 dBm
2 Δ1 2 f (Δ) 1.00 MHz (Δ) 0.059 dB
3
4
5
6
7
8
9
10
11
12
MSG
STATUS
Frequency
Auto Tune
Center Freq
2.479500000 GHz
Start Freq
2.469500000 GHz
Stop Freq
2.489500000 GHz
CF Step
2.000000 MHz
Auto
Man
Freq Offset
0 Hz

9. Occupied Bandwidth

9.1. Test Equipment

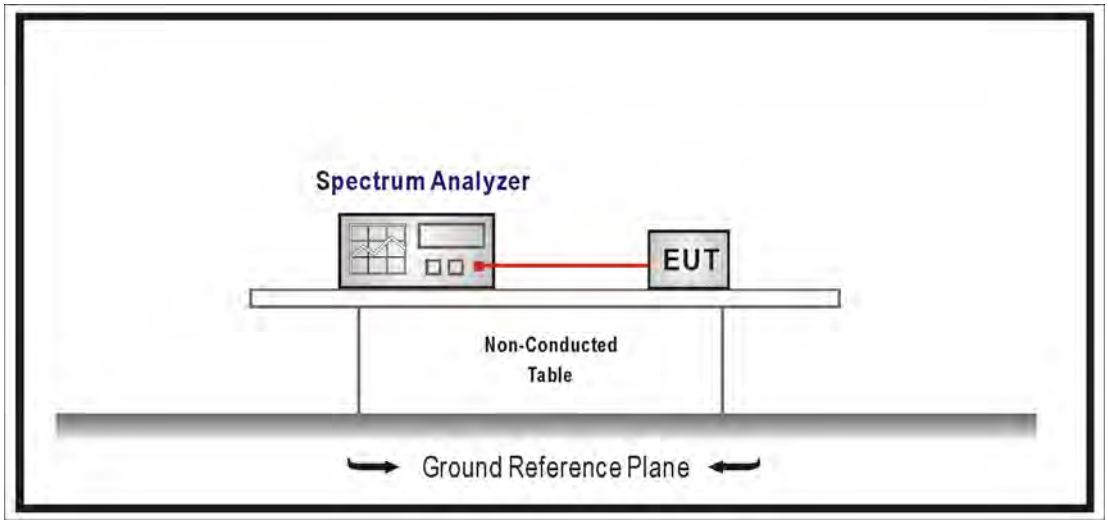
The following test equipment is used during the test:

Occupied Bandwidth / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2015/07/14

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

9.2. Test Setup



9.3. Limits

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.
For frequency hopping systems operating in the 5725-5850 MHz bands. The maximum 20 dB bandwidth of the hopping channel is 1 MHz.
For 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.

9.4. Test Procedures

The EUT was setup according to ANSI C63.10:2013 and tested according to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements
Use the following spectrum analyzer settings:
Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel
RBW ≥ 1% of the 20 dB bandwidth, VBW ≥ RBW , Sweep = auto, Detector function = peak, Trace = max hold , The EUT should be transmitting at its maximum data rate.

9.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2013

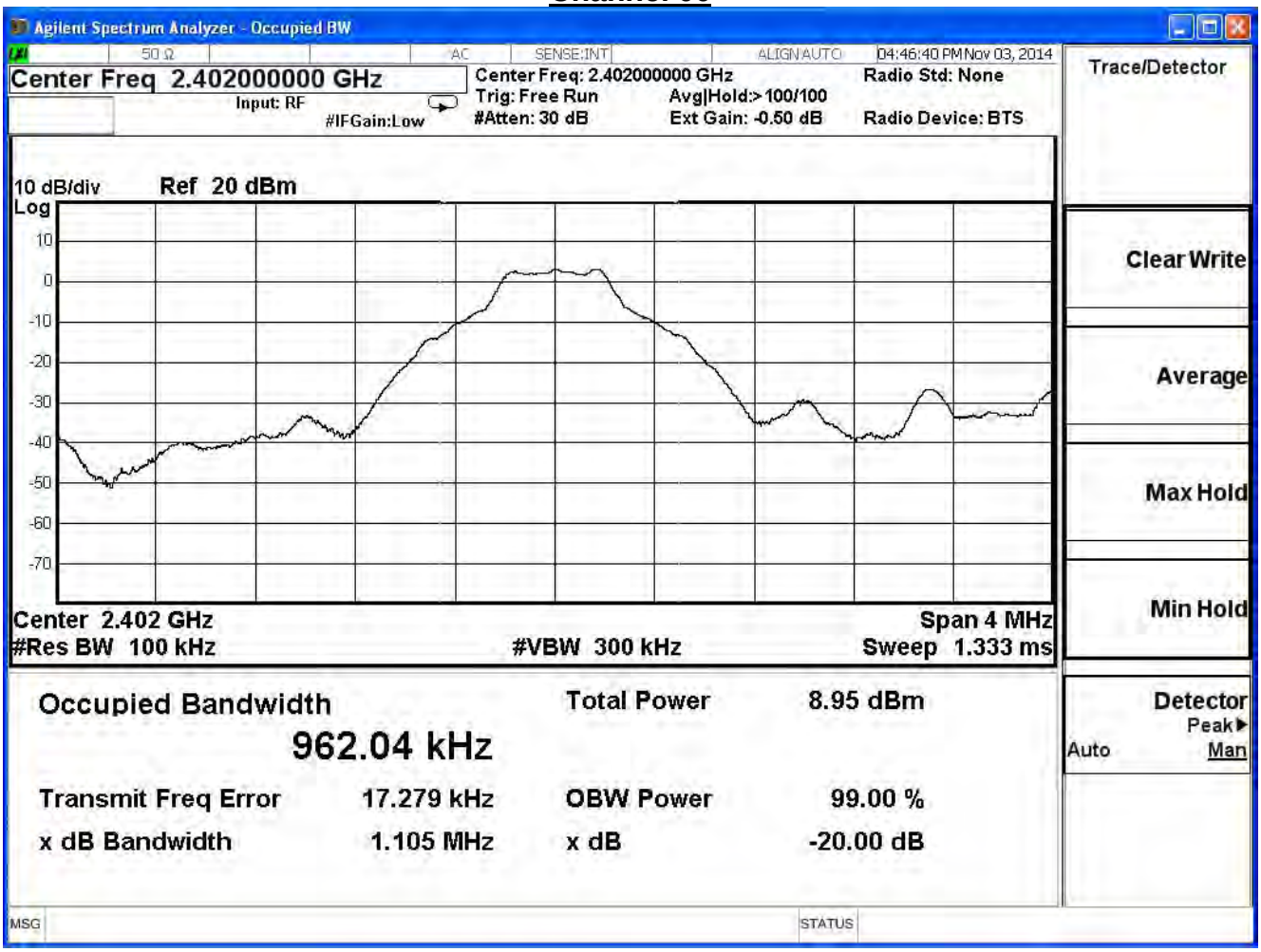
9.6. Test Result

Product	SALUT		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit (GFSK)-Power by PC		
Date of Test	2014/11/03	Test Site	SR7

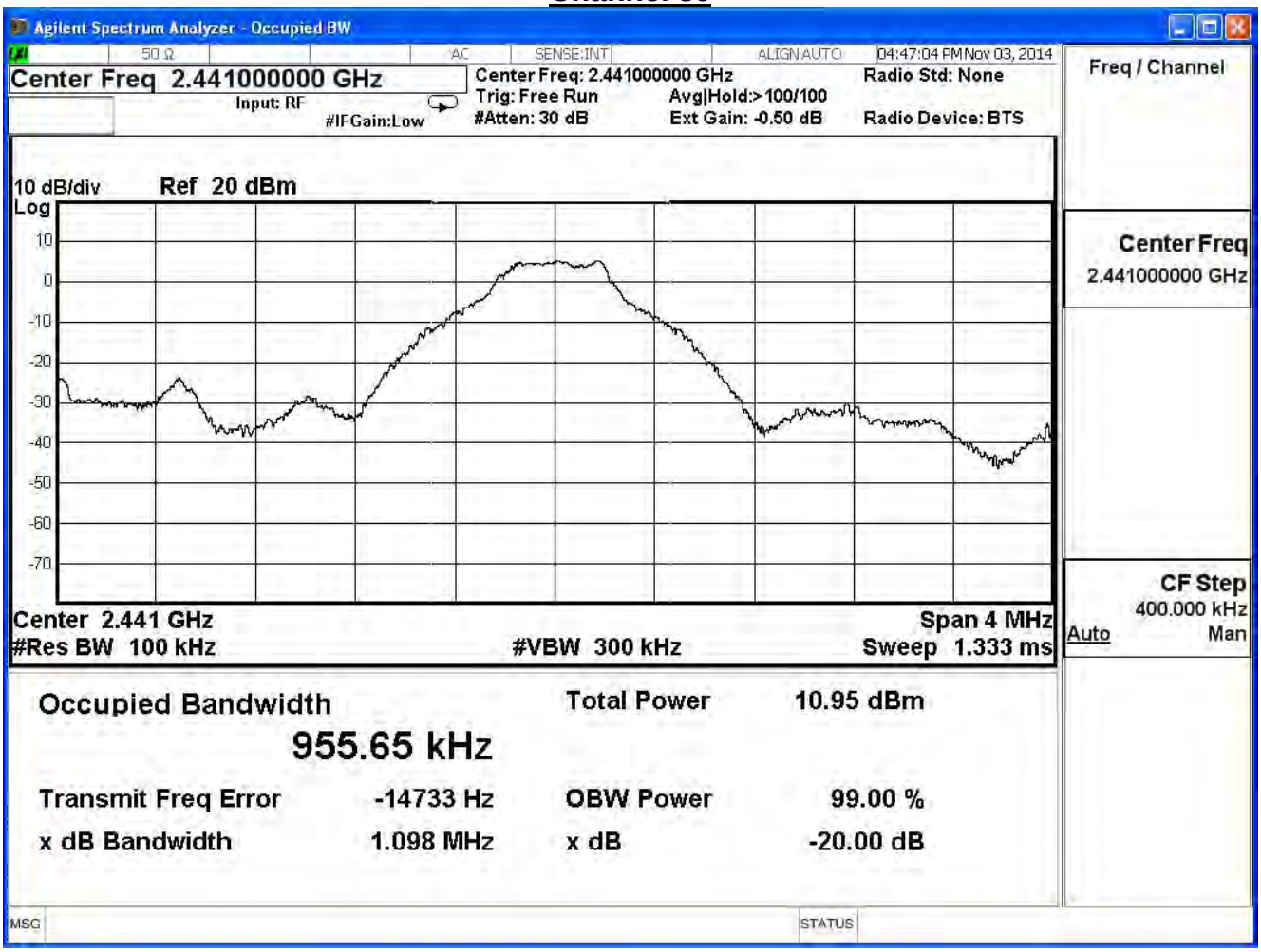
GFSK

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
00	2402	1.105	--	Pass
39	2441	1.098	--	Pass
78	2480	1.090	--	Pass

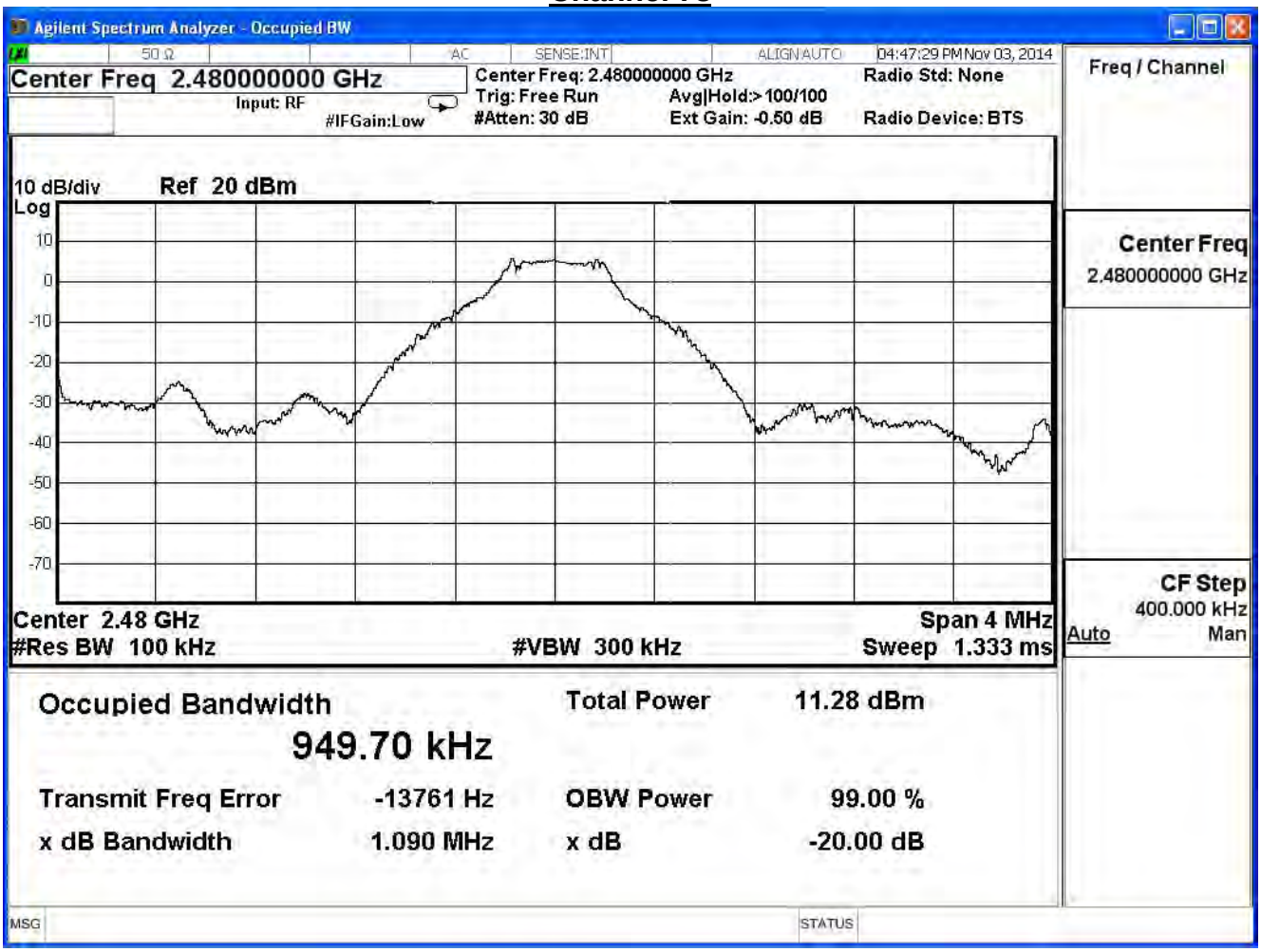
Channel 00



Channel 39


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:47:04 PM Nov 03, 2014
Center Freq 2.441000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.441000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -0.50 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.441000000 GHz
Center 2.441 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 4 MHz
Sweep 1.333 ms
CF Step
400.000 kHz
Auto
Man
Occupied Bandwidth
955.65 kHz
Total Power
10.95 dBm
Transmit Freq Error
-14733 Hz
OBW Power
99.00 %
x dB Bandwidth
1.098 MHz
x dB
-20.00 dB
MSG
STATUS

Channel 78

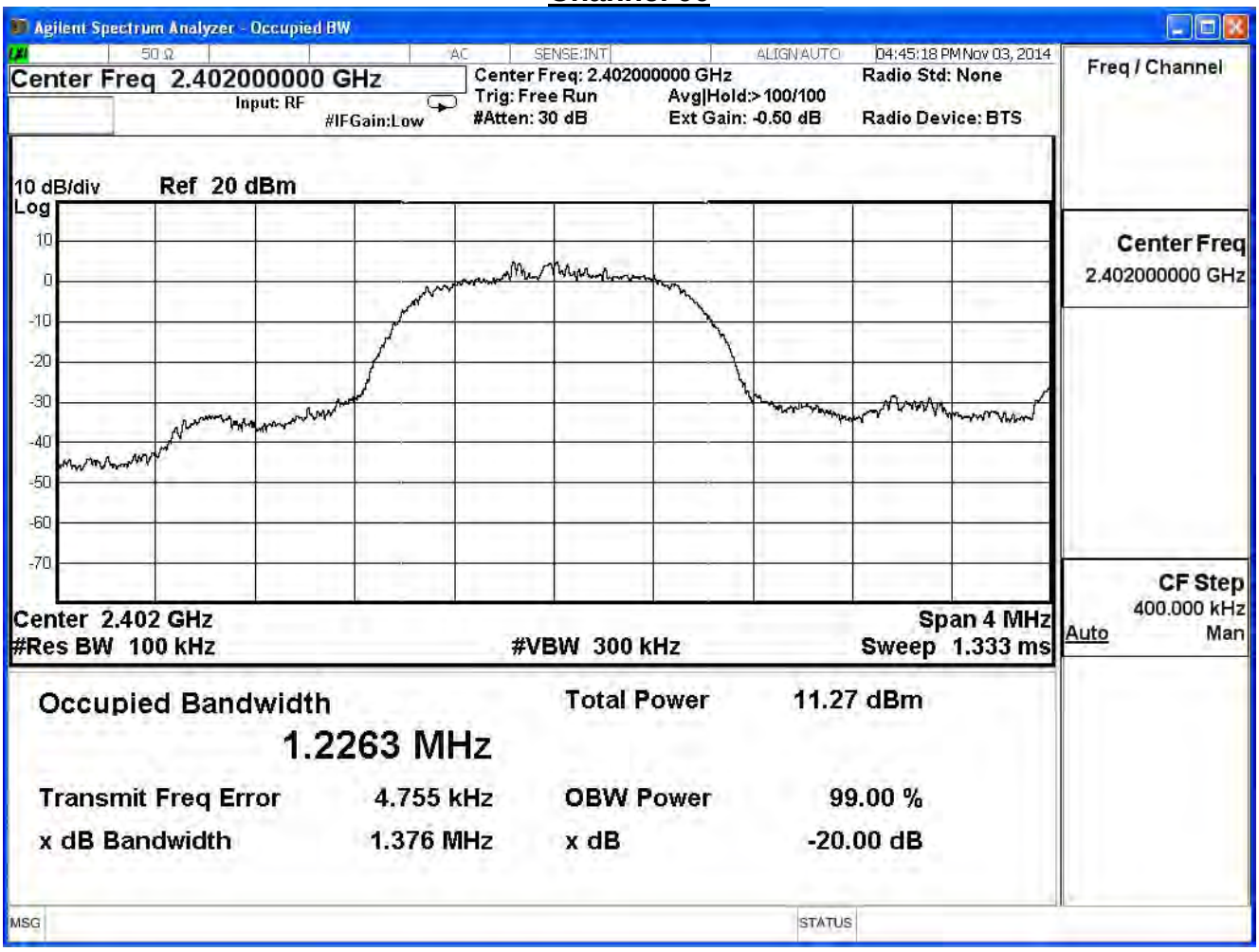

Agilent Spectrum Analyzer - Occupied BW
Center Freq 2.480000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.480000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -0.50 dB
Radio Std: None
Radio Device: BTS
04:47:29 PM Nov 03, 2014
Freq / Channel
10 dB/div
Log
Ref 20 dBm
Center Freq
2.480000000 GHz
Center 2.48 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 4 MHz
Sweep 1.333 ms
CF Step
400.000 kHz
Auto
Man
Occupied Bandwidth
949.70 kHz
Total Power
11.28 dBm
Transmit Freq Error
-13761 Hz
OBW Power
99.00 %
x dB Bandwidth
1.090 MHz
x dB
-20.00 dB
MSG
STATUS

Product	SALUT		
Test Item	Occupied Bandwidth		
Test Mode	Mode 2: Transmit (π/4DQPSK)-Power by PC		
Date of Test	2014/11/03	Test Site	SR7

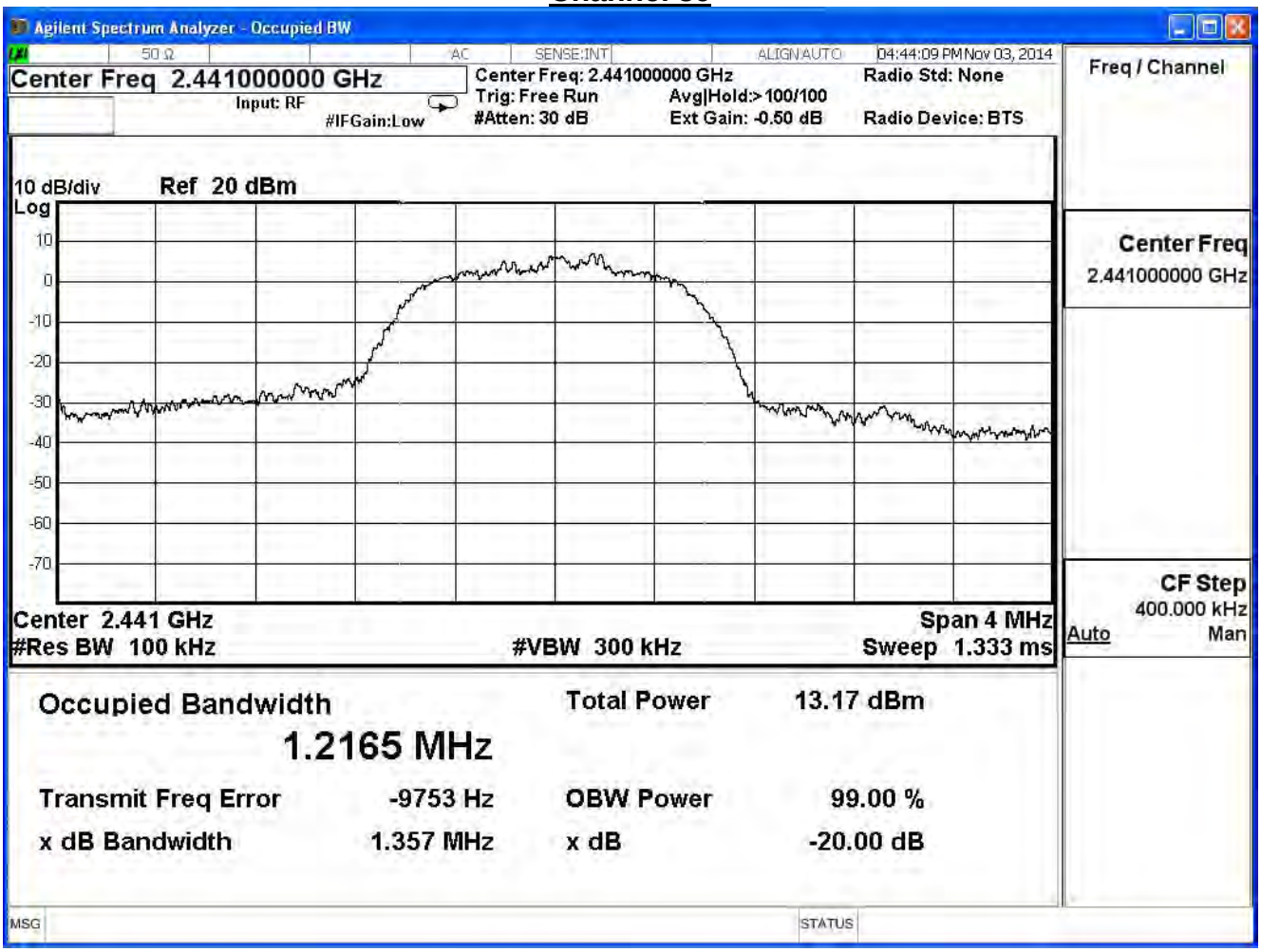
π/4-DQPSK

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
00	2402	1.376	--	Pass
39	2441	1.357	--	Pass
78	2480	1.366	--	Pass

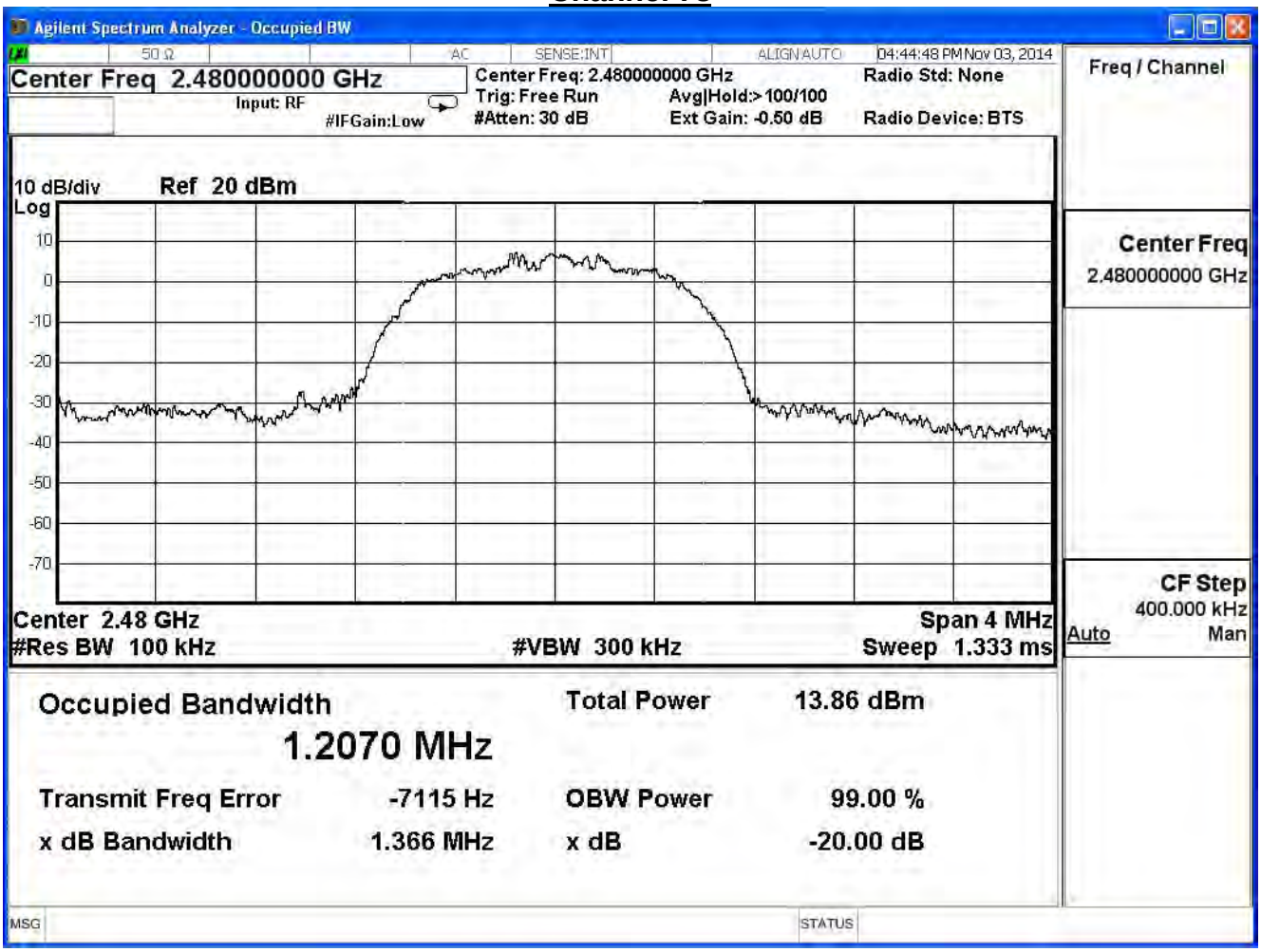
Channel 00



Channel 39


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:44:09 PM Nov 03, 2014
Center Freq 2.441000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.441000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -0.50 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.441000000 GHz
Center 2.441 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 4 MHz
Sweep 1.333 ms
CF Step
400.000 kHz
Auto
Man
Occupied Bandwidth
1.2165 MHz
Total Power
13.17 dBm
Transmit Freq Error
-9753 Hz
OBW Power
99.00 %
x dB Bandwidth
1.357 MHz
x dB
-20.00 dB
MSG
STATUS

Channel 78

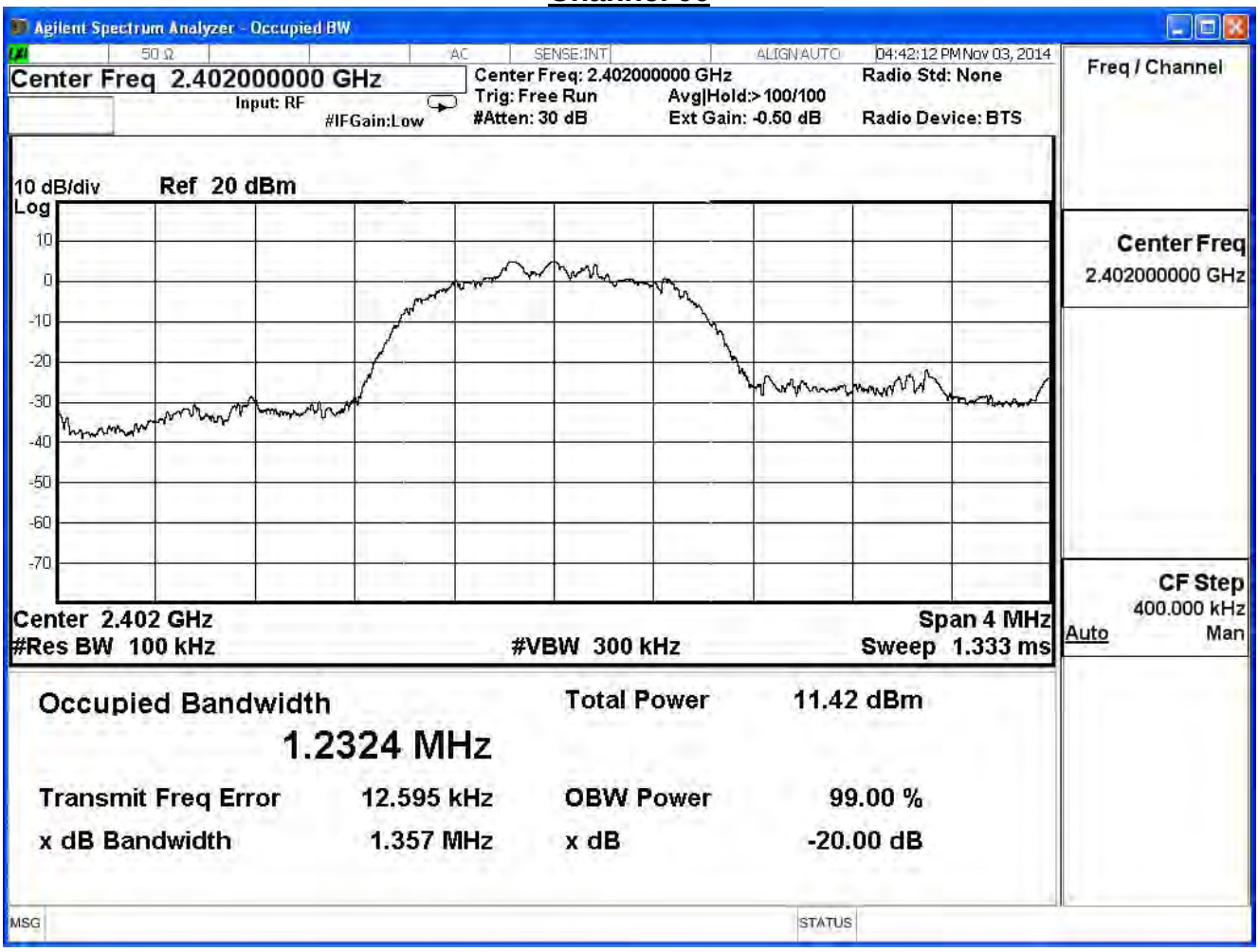

Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:44:48 PM Nov 03, 2014
Center Freq 2.480000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.480000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -0.50 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.480000000 GHz
Center 2.48 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 4 MHz
Sweep 1.333 ms
CF Step
400.000 kHz
Auto
Man
Occupied Bandwidth
1.2070 MHz
Total Power
13.86 dBm
Transmit Freq Error
-7115 Hz
OBW Power
99.00 %
x dB Bandwidth
1.366 MHz
x dB
-20.00 dB
MSG
STATUS

Product	SALUT		
Test Item	Occupied Bandwidth		
Test Mode	Mode 3: Transmit (8DQPSK)-Power by PC		
Date of Test	2014/11/03	Test Site	SR7

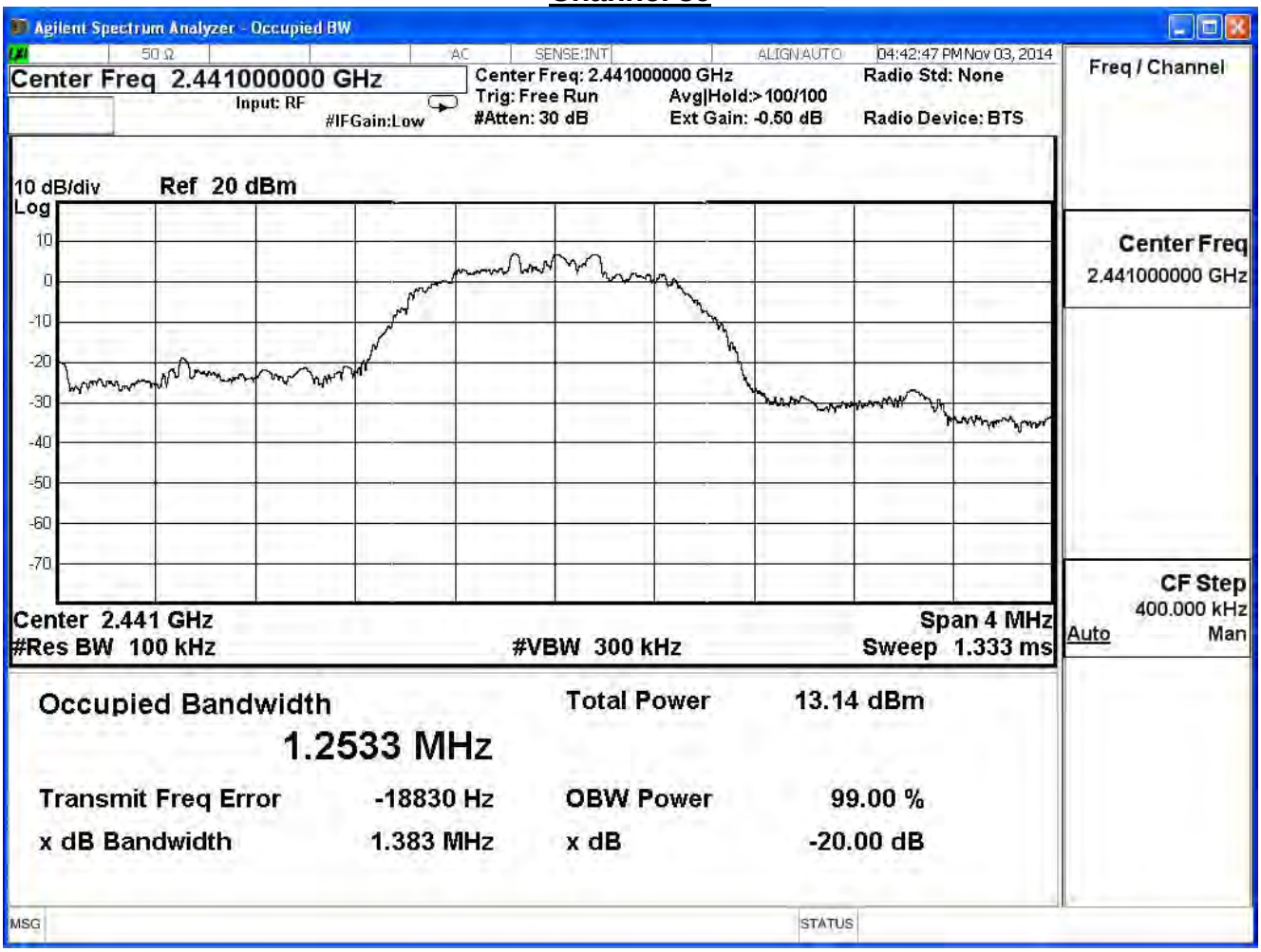
8-DQPSK

Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
00	2402	1.357	--	Pass
39	2441	1.383	--	Pass
78	2480	1.389	--	Pass

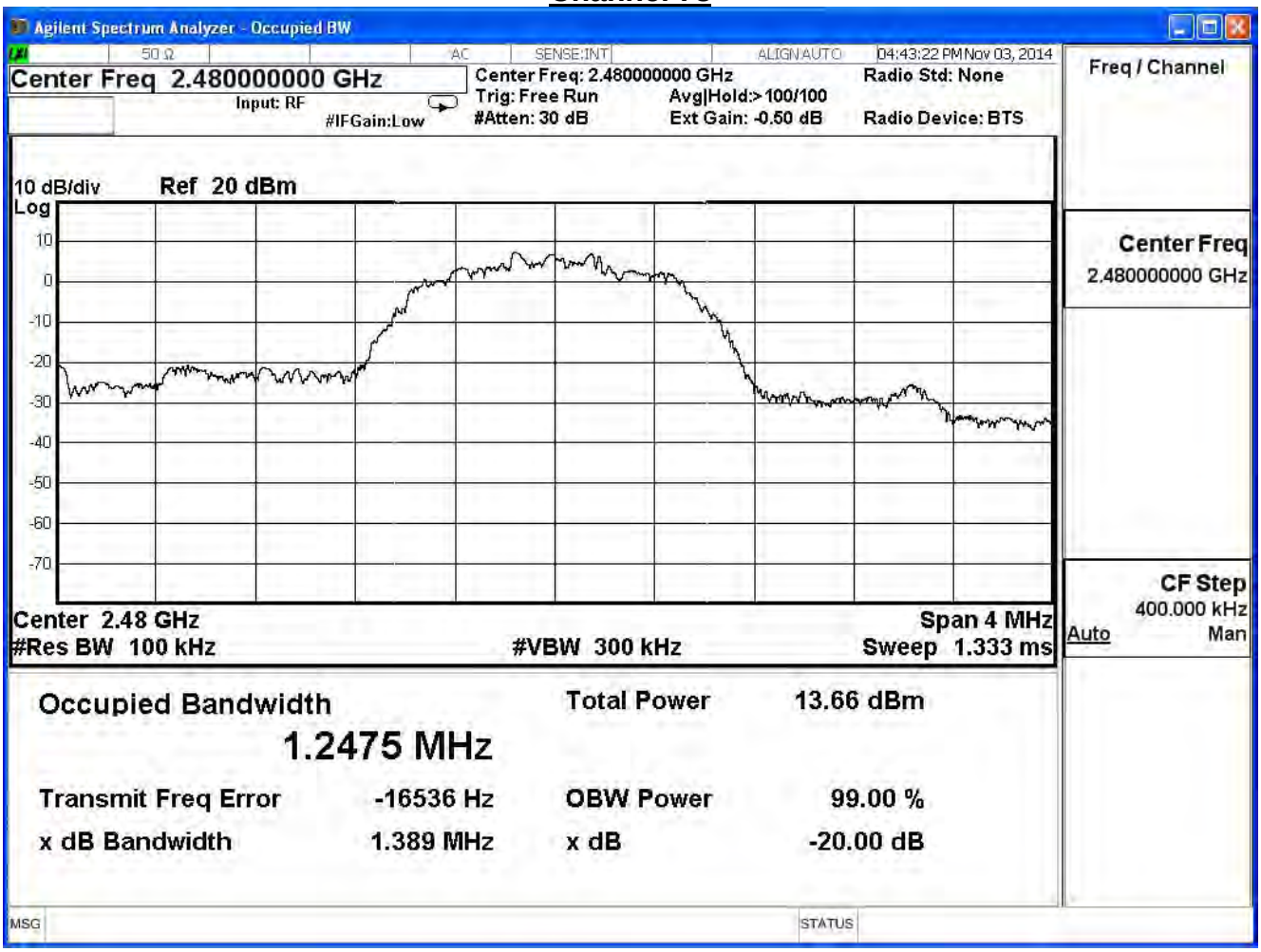
Channel 00



Channel 39


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:42:47 PM Nov 03, 2014
Center Freq 2.441000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.441000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -0.50 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.441000000 GHz
Center 2.441 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 4 MHz
Sweep 1.333 ms
CF Step
400.000 kHz
Auto
Man
Occupied Bandwidth
1.2533 MHz
Total Power
13.14 dBm
Transmit Freq Error
-18830 Hz
OBW Power
99.00 %
x dB Bandwidth
1.383 MHz
x dB
-20.00 dB
MSG
STATUS

Channel 78


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:43:22 PM Nov 03, 2014
Center Freq 2.480000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.480000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -0.50 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.480000000 GHz
Center 2.48 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 4 MHz
Sweep 1.333 ms
CF Step
400.000 kHz
Auto
Man
Occupied Bandwidth
1.2475 MHz
Total Power
13.66 dBm
Transmit Freq Error
-16536 Hz
OBW Power
99.00 %
x dB Bandwidth
1.389 MHz
x dB
-20.00 dB
MSG
STATUS

10. Dwell Time

10.1. Test Equipment

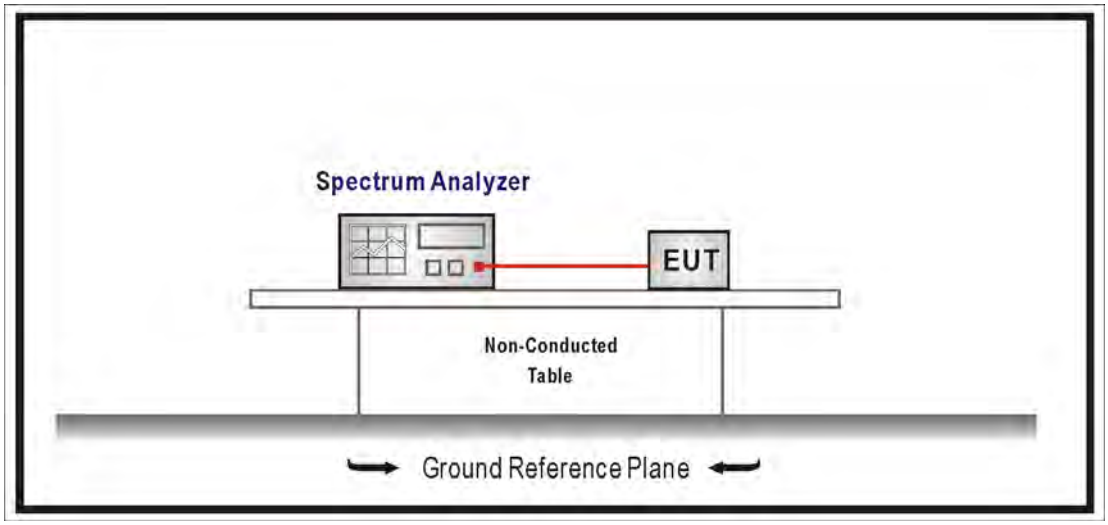
The following test equipment is used during the test:

Dwell Time / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2015/07/14

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

10.2. Test Setup



10.3. Limits

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period.
For frequency hopping systems operating in the 2400-2483.5 MHz bands. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.
For frequency hopping systems operating in the 5725-5850 MHz bands. The average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 30 second period.

10.4. Test Procedures

The EUT was setup according to ANSI C63.10:2013 and tested according to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements
Span = zero span, centered on a hopping channel , RBW = 1 MHz, VBW ≥ RBW ,
Sweep = as necessary to capture the entire dwell time per hopping channel ,
Detector function = peak, Trace = max hold.

10.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2013

10.6. Test Result

Product	SALUT		
Test Item	Dwell Time		
Test Mode	Mode 1: Transmit (GFSK)-Power by PC		
Date of Test	2014/10/22	Test Site	SR7

GFSK

Occupancy Time of Frequency Hopping System-DH5

A) 2402MHz Test Time Period: 0.4*79=31.60sec，Time slot length : 2.88 ms = 0.00288 sec

Dwell Time : 0.00288*(266.67/79)* 31.60=0.307sec。

B) 2441MHz Test Time Period: 0.4*79=31.60sec，Time slot length : 2.90ms = 0.0029 sec

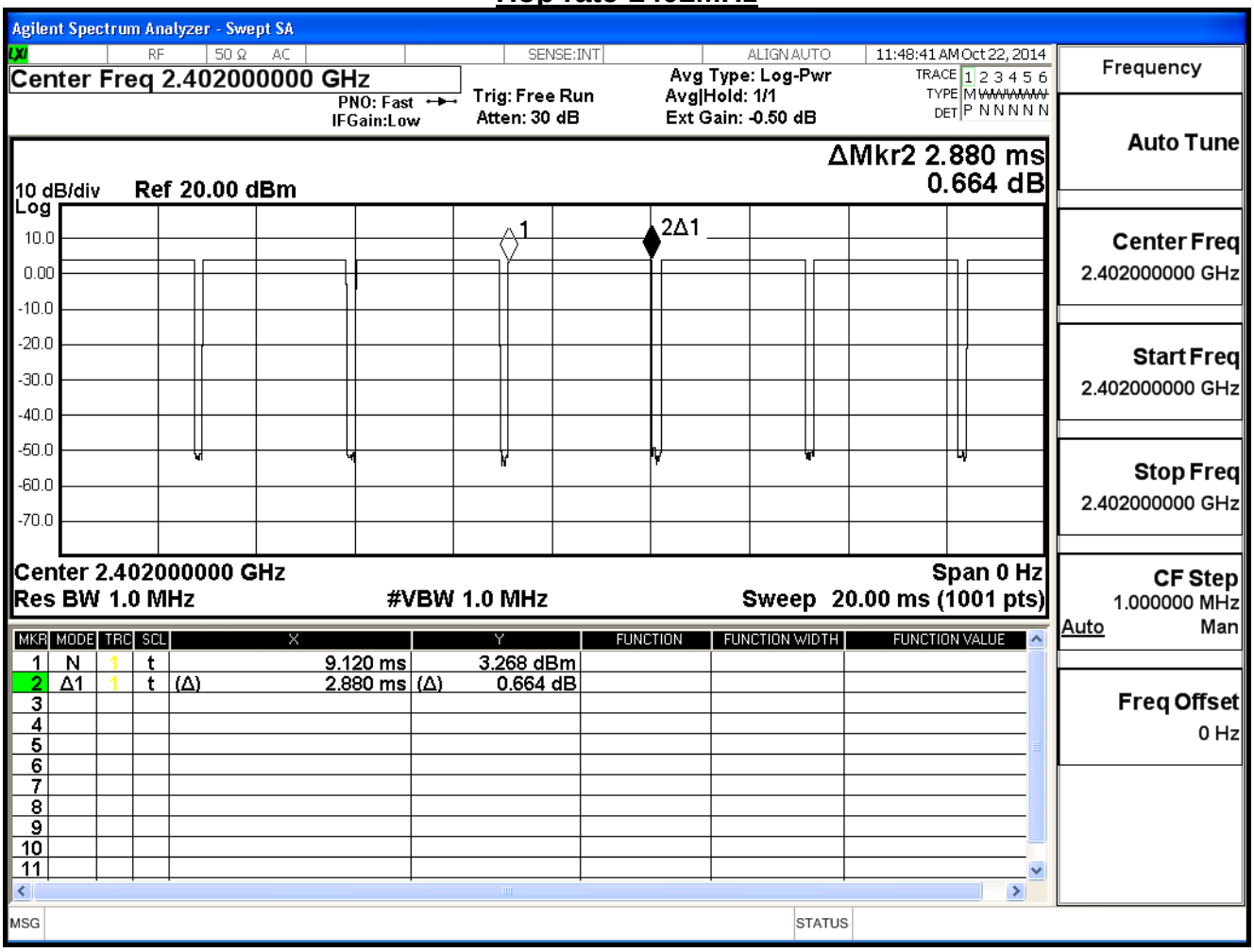
Dwell Time : 0.0029*(266.67/79)* 31.60=0.309sec。

C) 2480MHz Test Time Period: 0.4*79=31.60sec，Time slot length : 2.90ms = 0.0029 sec

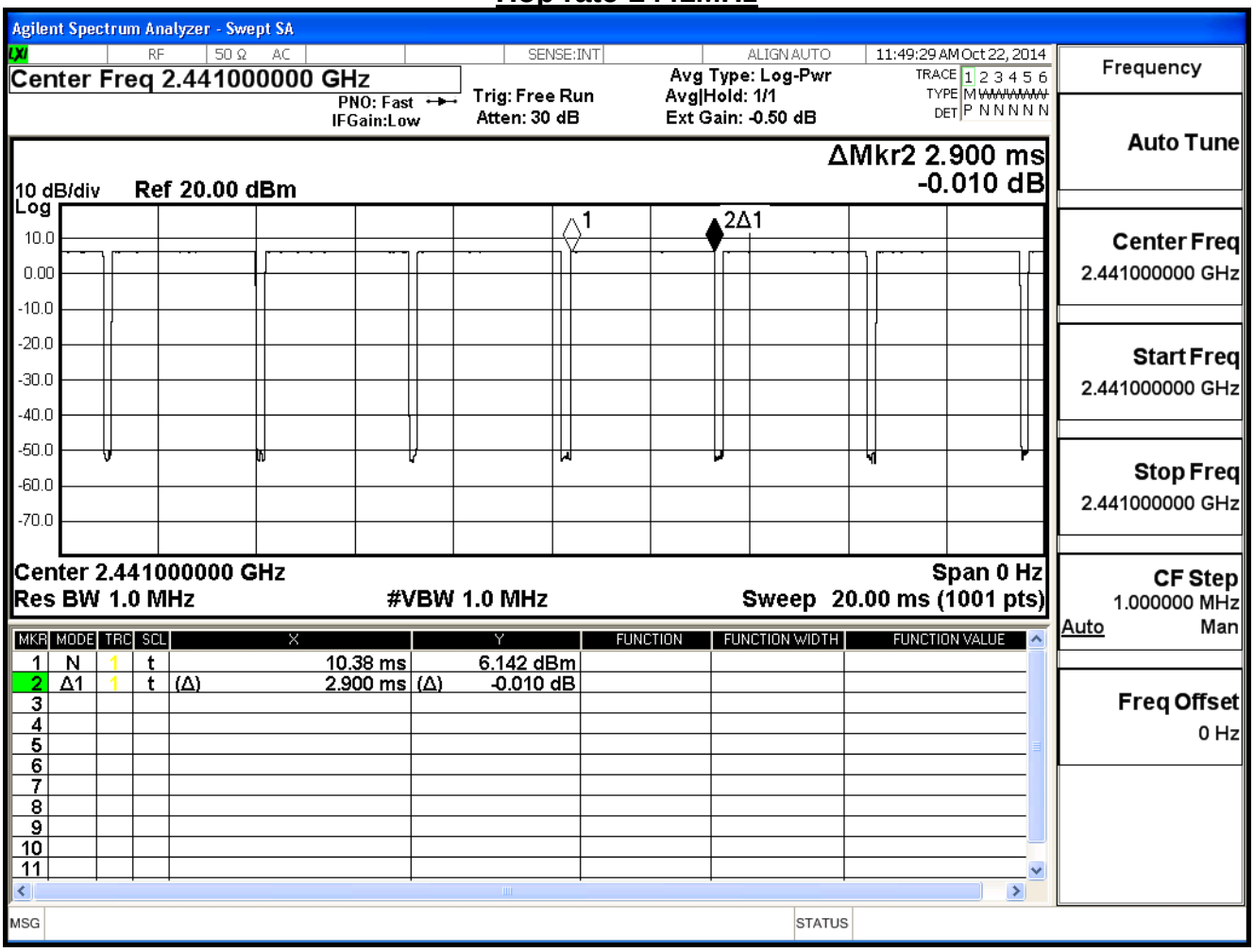
Dwell Time : 0.0029*(266.67/79)* 31.60=0.309sec。

Test Result: The Average Occupancy Time of Each Highest，Middle and Lowest Channel Is Less Than 0.4sec，And Corresponds to The Standard。

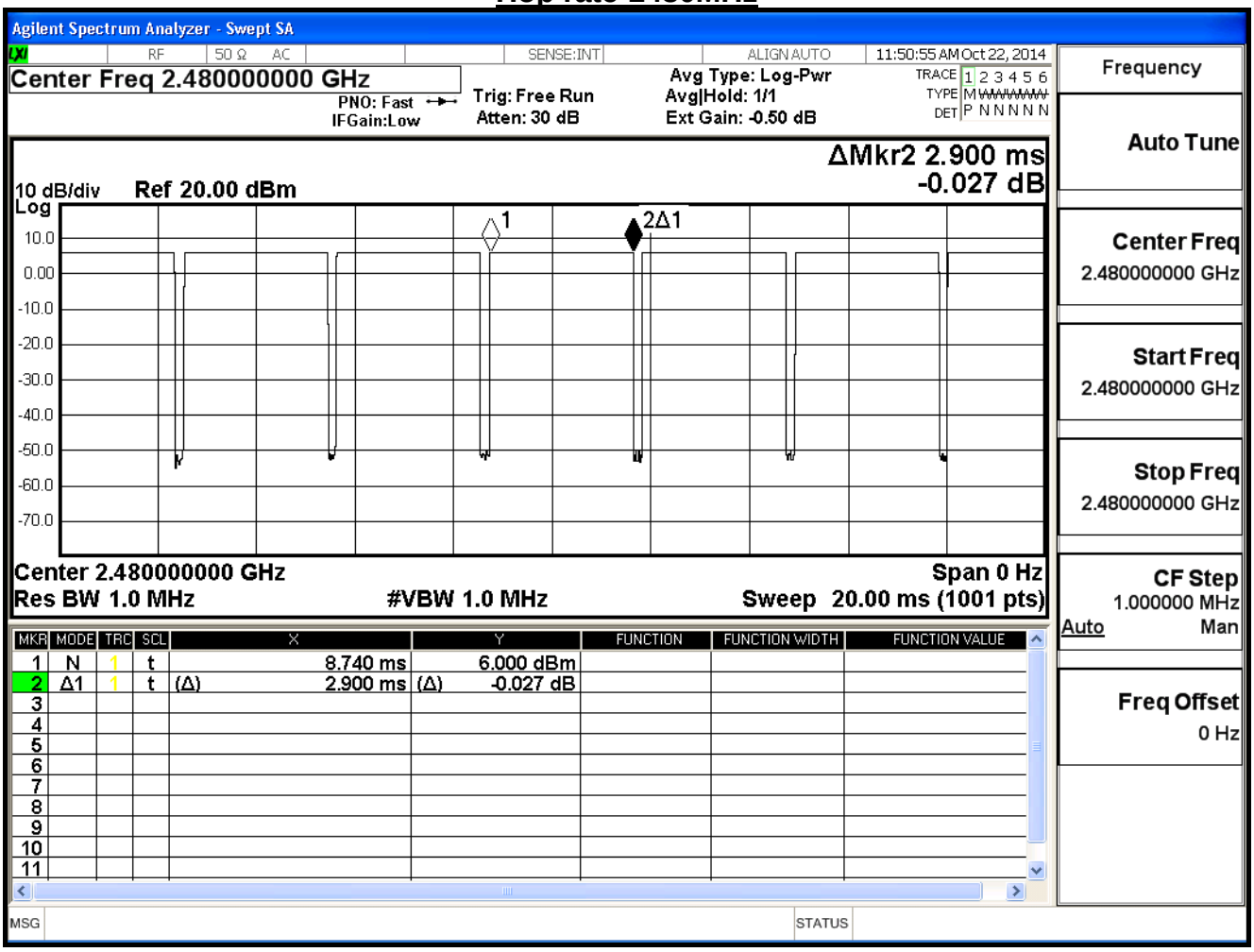
Hop rate-2402MHz



Hop rate-2441MHz



Hop rate-2480MHz



Note: Dwell time＝time slot length * hop rate / number of hopping channels * period

Product	SALUT		
Test Item	Dwell Time		
Test Mode	Mode 2: Transmit (π/4DQPSK)-Power by PC		
Date of Test	2014/10/22	Test Site	SR7

π/4-DQPSK

Occupancy Time of Frequency Hopping System-2DH5

A) 2402MHz Test Time Period: 0.4*79=31.60sec，Time slot length : 2.88 ms = 0.00288 sec

Dwell Time : 0.00288*(266.67/79)* 31.60=0.307sec。

B) 2441MHz Test Time Period: 0.4*79=31.60sec，Time slot length : 2.9ms = 0.0029 sec

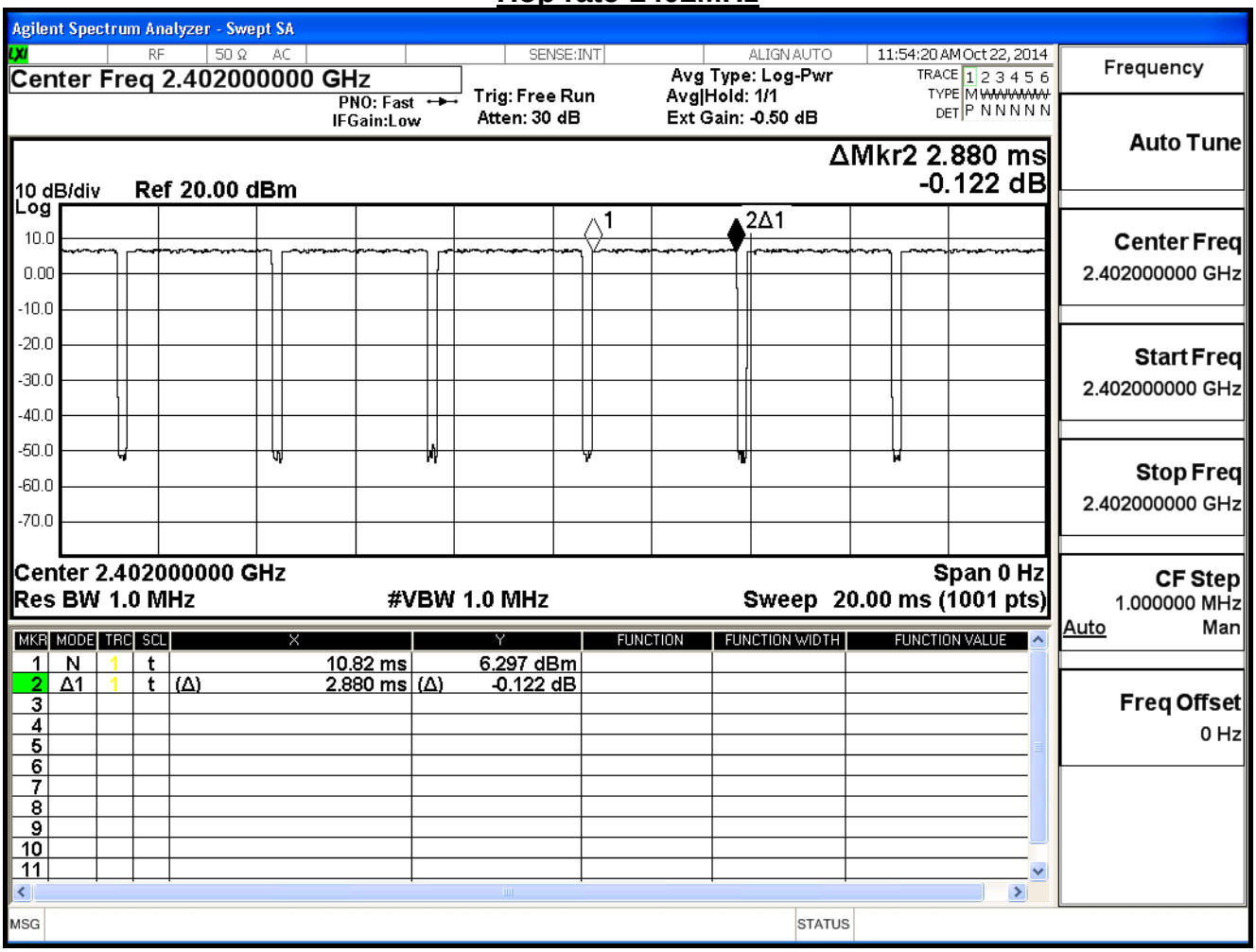
Dwell Time : 0.00290*(266.67/79)* 31.60=0.309sec。

C) 2480MHz Test Time Period: 0.4*79=31.60sec，Time slot length : 2.9ms = 0.0029 sec

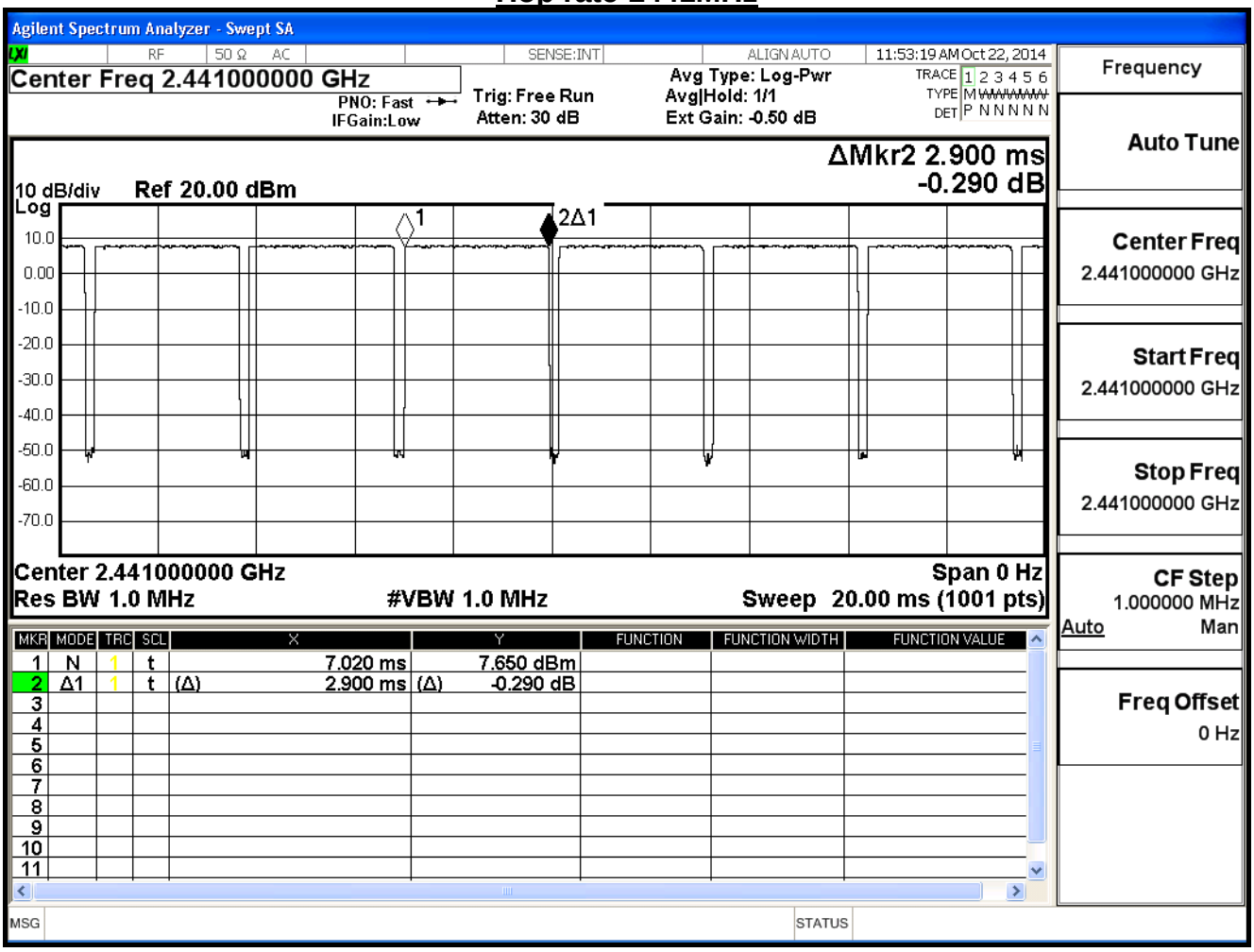
Dwell Time : 0.00290*(266.67/79)* 31.60=0.309sec。

Test Result: The Average Occupancy Time of Each Highest，Middle and Lowest Channel Is Less Than 0.4sec，And Corresponds to The Standard。

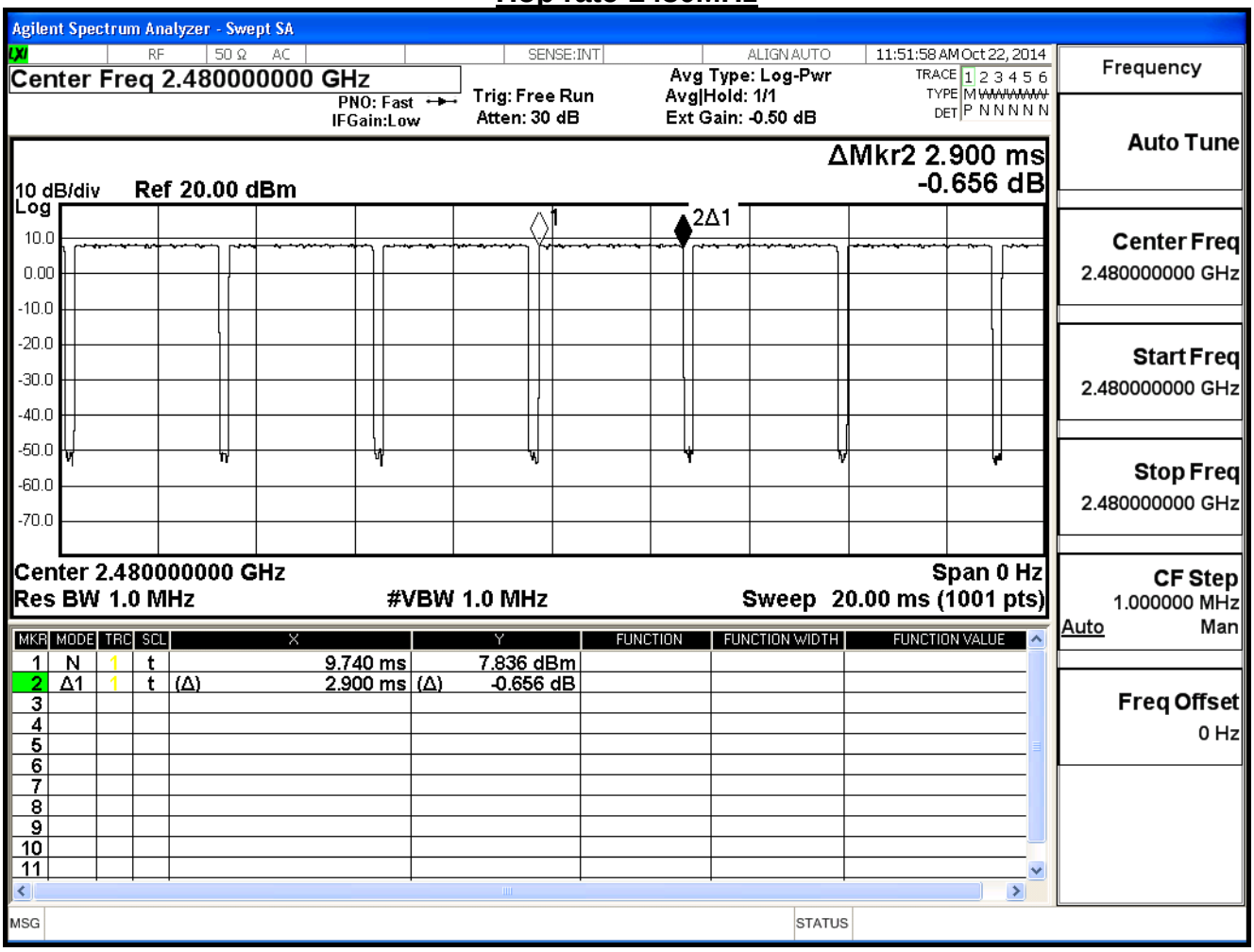
Hop rate-2402MHz



Hop rate-2441MHz



Hop rate-2480MHz



Product	SALUT		
Test Item	Dwell Time		
Test Mode	Mode 3: Transmit (8DQPSK)-Power by PC		
Date of Test	2014/10/22	Test Site	SR7

8-DQPSK, 3DH5

Occupancy Time of Frequency Hopping System-3DH5

A) 2402MHz Test Time Period: 0.4*79=31.60sec，Time slot length : 2.9 ms = 0.0029sec

Dwell Time : 0.00290*(266.67/79)* 31.60=0.309sec。

B) 2441MHz Test Time Period: 0.4*79=31.60sec，Time slot length : 2.92 ms = 0.00292 sec

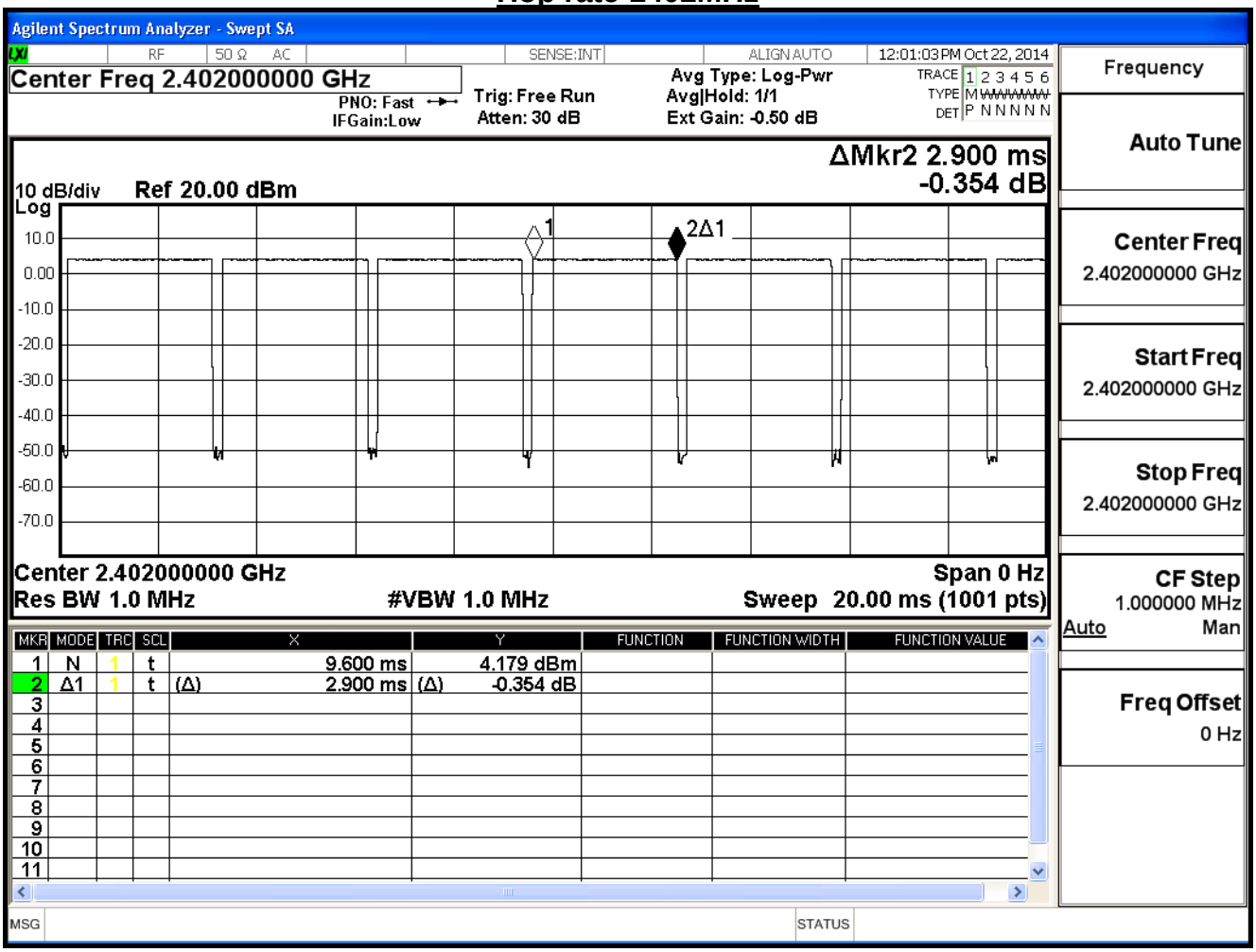
Dwell Time : 0.00292*(266.67/79)* 31.60=0.311sec。

C) 2480MHz Test Time Period: 0.4*79=31.60sec，Time slot length : 2.9 ms = 0.0029 sec

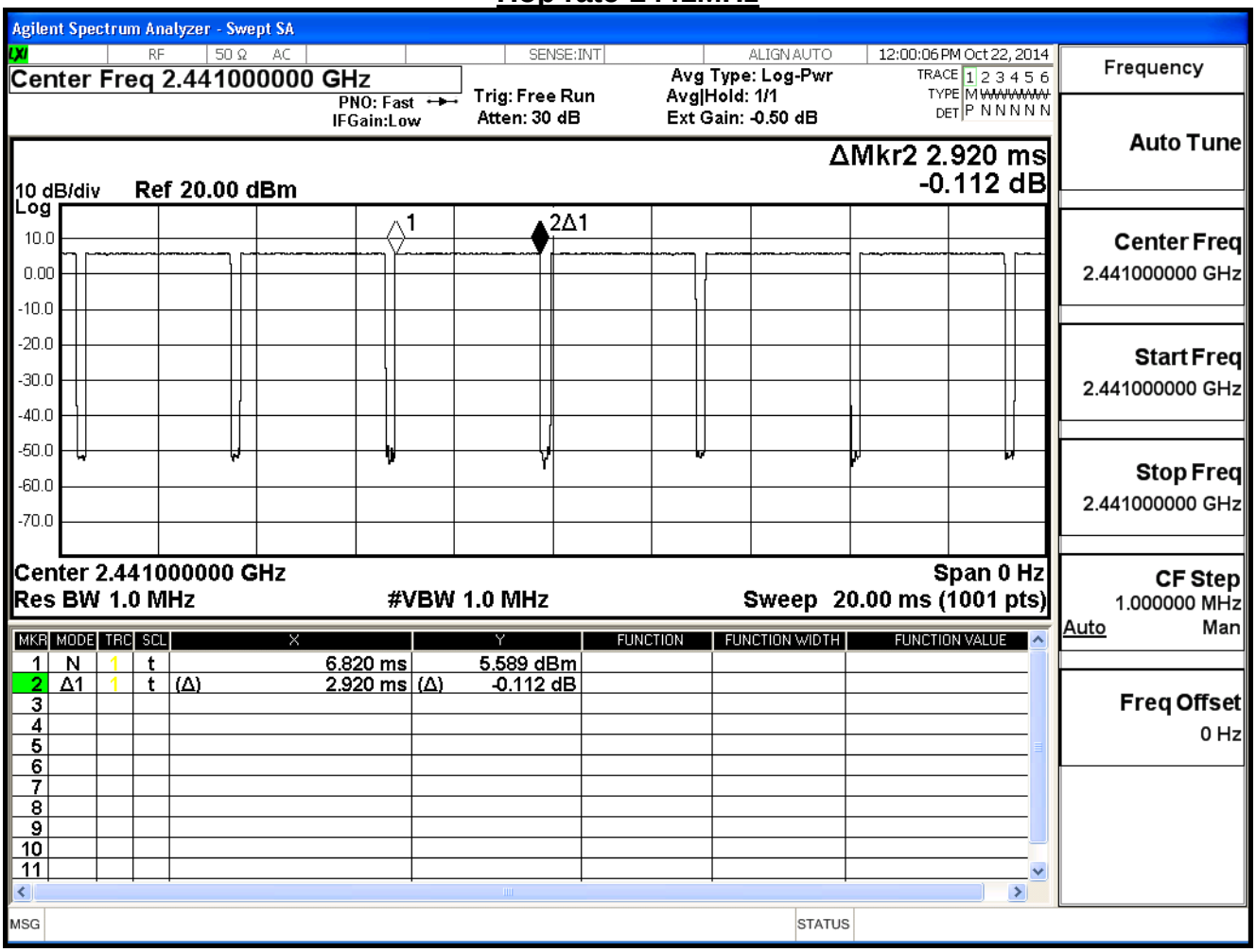
Dwell Time : 0.00290*(266.67/79)* 31.60=0.309sec。

Test Result: The Average Occupancy Time of Each Highest，Middle and Lowest Channel Is Less Than 0.4sec，And Corresponds to The Standard。

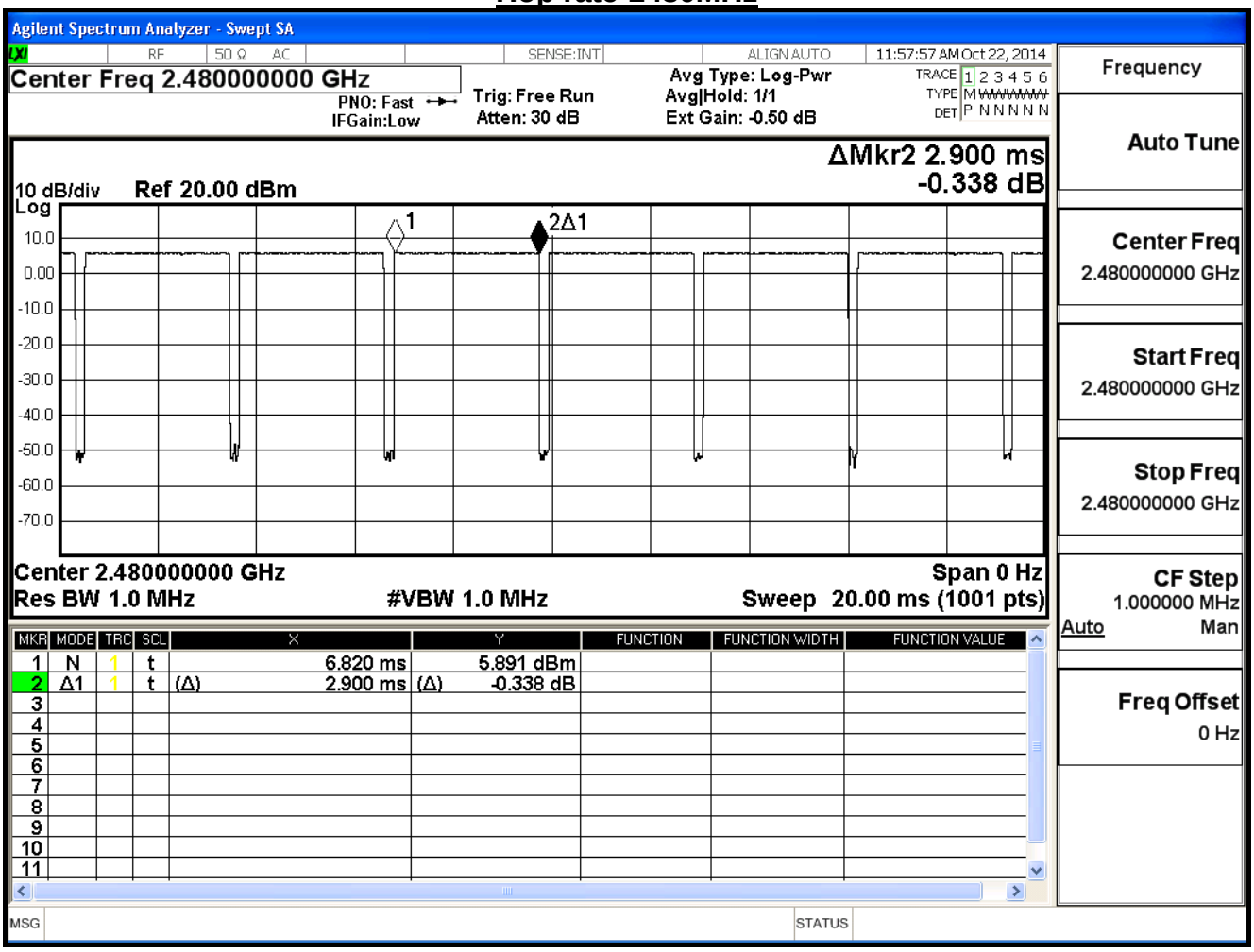
Hop rate-2402MHz



Hop rate-2441MHz



Hop rate-2480MHz



Note: Dwell time＝time slot length * hop rate / number of hopping channels * period