

FCC Test Report

Product Name : meMINI
Trade Name : meMINI
Model No. : MEM001
FCC ID. : 2AC5UMEM001

Applicant : meMINI Inc
Address : 1183 Bordeaux Drive Suite 28, Sunnyvale,
United States

Date of Receipt : Sep. 23, 2015
Issued Date : Oct. 30, 2015
Report No. : 1590623R-RFUSP01V00-A
Report Version : V1.0



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.

Test Report Certification

Issued Date : Oct. 30, 2015

Report No.: 1590623R-RFUSP01V00-A



Product Name : meMINI
Applicant : meMINI Inc
Address : 1183 Bordeaux Drive Suite 28, Sunnyvale, United States
Manufacturer : SanJet Technology Corp.
Model No. : MEM001
FCC ID. : 2AC5UMEM001
EUT Voltage : AC 100-240V, 50/60Hz
Testing Voltage : AC 120V/60Hz
Trade Name : meMINI
Applicable Standard : FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2014
ANSI C63.10:2013
Test Result : Complied

The test results relate only to the samples tested.

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Documented By :

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Reviewed By :

(Jimmie Liu / Senior Engineer)

Approved By :

(Roy Wang / Director)

Revision History

Report No.	Version	Description	Issued Date
1590623R-RFUSP01V00-A	Rev. 1.0	Initial issue of report	Oct. 30, 2015

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
USA	: FCC, Registration Number: 365520
Canada	: IC, Submission No: 181665 / IC Registration Number: 4075C-4

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/english/about/certificates.aspx?bval=5>

The address and introduction of Quietek Corporation's laboratories can be founded in our Web site :
http://www.quietek.com/index_en.aspx

If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

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1. General Information

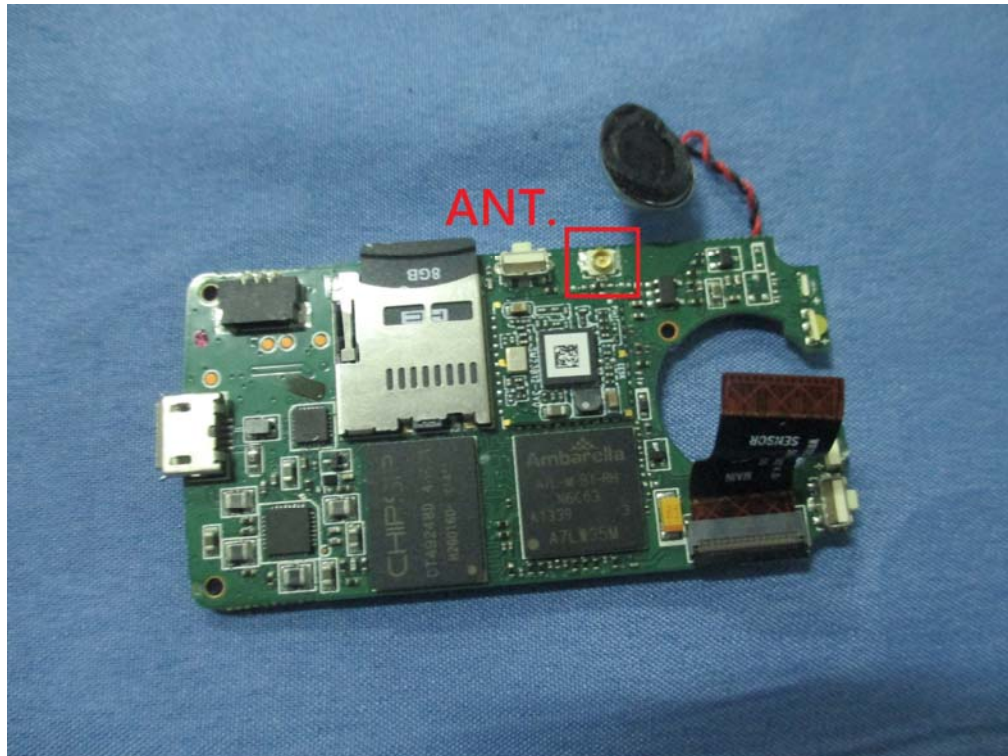
1.1. EUT Description

Product Name	meMINI
Product Type	WLAN (1TX, 1RX)
Trade Name	meMINI
Model No.	MEM001
Frequency Range/ Channel Number	2400~2480MHz / 40 channels
Type of Modulation	BLE 4.0 (GFSK)
Antenna Type	Monopole
Antenna Gain	Peak 0.61 dBi

Component	
Magnatach	1Set
USB Cable	Shielded, 0.7m

ANT-TX / RX & Bandwidth

Wifi: 1TX / 1RX(AUX Antenna); BT4.0: 1TX/1RX



Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 00	2402 MHz	Channel 10	2422 MHz	Channel 20	2442 MHz	Channel 30	2462 MHz
Channel 01	2404 MHz	Channel 11	2424 MHz	Channel 21	2444 MHz	Channel 31	2464 MHz
Channel 02	2406 MHz	Channel 12	2426 MHz	Channel 22	2446 MHz	Channel 32	2466 MHz
Channel 03	2408 MHz	Channel 13	2428 MHz	Channel 23	2448 MHz	Channel 33	2468 MHz
Channel 04	2410 MHz	Channel 14	2430 MHz	Channel 24	2450 MHz	Channel 34	2470 MHz
Channel 05	2412 MHz	Channel 15	2432 MHz	Channel 25	2452 MHz	Channel 35	2472 MHz
Channel 06	2414 MHz	Channel 16	2434 MHz	Channel 26	2454 MHz	Channel 36	2474 MHz
Channel 07	2416MHz	Channel 17	2436 MHz	Channel 27	2456 MHz	Channel 37	2476 MHz
Channel 08	2418 MHz	Channel 18	2438 MHz	Channel 28	2458 MHz	Channel 38	2478 MHz
Channel 09	2420 MHz	Channel 19	2440 MHz	Channel 29	2460 MHz	Channel 39	2480 MHz

Note:

1. This device is a meMINI including 2.4G Wifi 、BT4.0 transmitting and receiving function.
2. These test results on a sample of the device are for the purpose of demonstrating Compliance with Part 15 Subpart C Paragraph 15.247.
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 has USB port, which can be connected to computer. It is a Class B personal computer and peripheral. Its test report number is 1590623R-RFUSP01V00.
5. The function of the WIFI transmitting is measured. The test report of the number is 1590623R-RFUSP01V00-B.

1.2. Test Mode

QuieTek has verified the construction and function in typical operation. The preliminary tests were performed in different data rate, and to find the worst condition, which was shown in this test report. The following table is the final test mode.

TX	Mode 1: Transmit
----	------------------

Test Items	Modulation	Channel	Antenna	Result
Conducted Emission	GFSK	00/19/39	0	Complies
Peak Power Output	GFSK	00/19/39	0	Complies
Radiated Emission	GFSK	00/19/39	0	Complies
RF antenna conducted test	GFSK	00/19/39	0	Complies
Radiated Emission Band Edge	GFSK	00/19/39	0	Complies
Occupied Bandwidth	GFSK	00/19/39	0	Complies
Power Density	GFSK	00/19/39	0	Complies

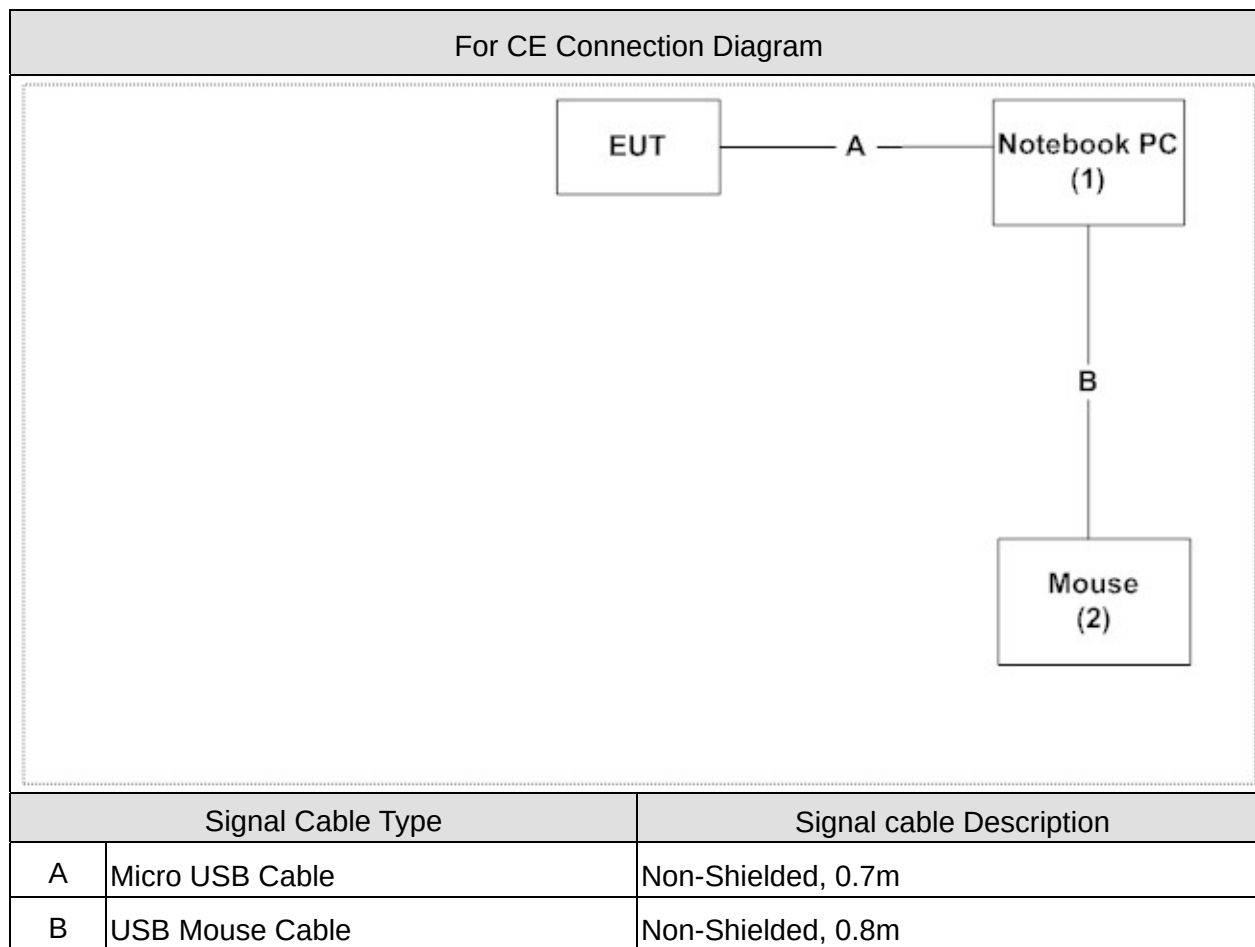
1.3. Tested System Details

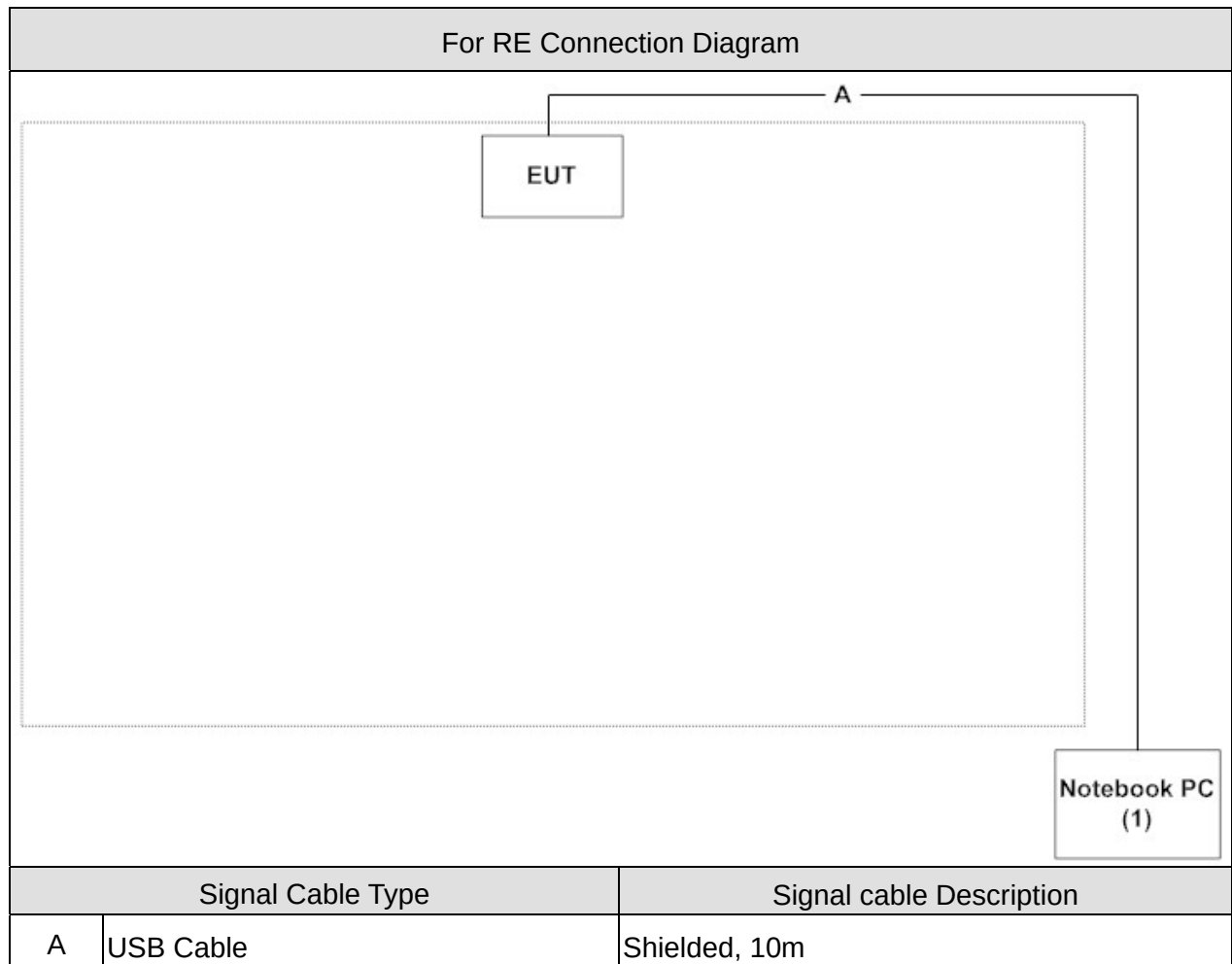
The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

For CE						
Product	Manufacturer	Model No.	Serial No.	FCC ID	Power Cord	
1	Notebook PC	ACER	MS2296	LUSCV021391 150332C2000	DoC	Non-Shielded, 2.5m one ferrite core bonded
2	USB Mouse	Microsoft	Comfort Optical Mouse 1000	1016274-0	DoC	--

For RE						
Product	Manufacturer	Model No.	Serial No.	FCC ID	Power Cord	
1	Notebook PC	ACER	MS2296	LUSCV021391 150332C2000	DoC	Non-Shielded, 2.5m one ferrite core bonded

1.4. Configuration of tested System





1.5. EUT Exercise Software

1	Setup the EUT as shown in Section 1.4.
2	Open the Terminal and Execute the command on the EUT.
3	Configure the test mode, the test channel, and the data rate.
4	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	15 - 35	23 °C
Humidity (%RH)		25 - 75	50 %RH
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Peak Power Output	15 - 35	25
Humidity (%RH)		25 - 75	45
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Radiated Emission	15 - 35	20
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 RF antenna conducted test	15 - 35	25
Humidity (%RH)		25 - 75	45
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Band Edge	15 - 35	20
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 DTS Occupied Bandwidth	15 - 35	25
Humidity (%RH)		25 - 75	45
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Occupied Bandwidth	15 - 35	25
Humidity (%RH)		25 - 75	45
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Power Density	15 - 35	25
Humidity (%RH)		25 - 75	45
Barometric pressure (mbar)		860 - 1060	950-1000

2. Conducted Emission

2.1. Test Equipment

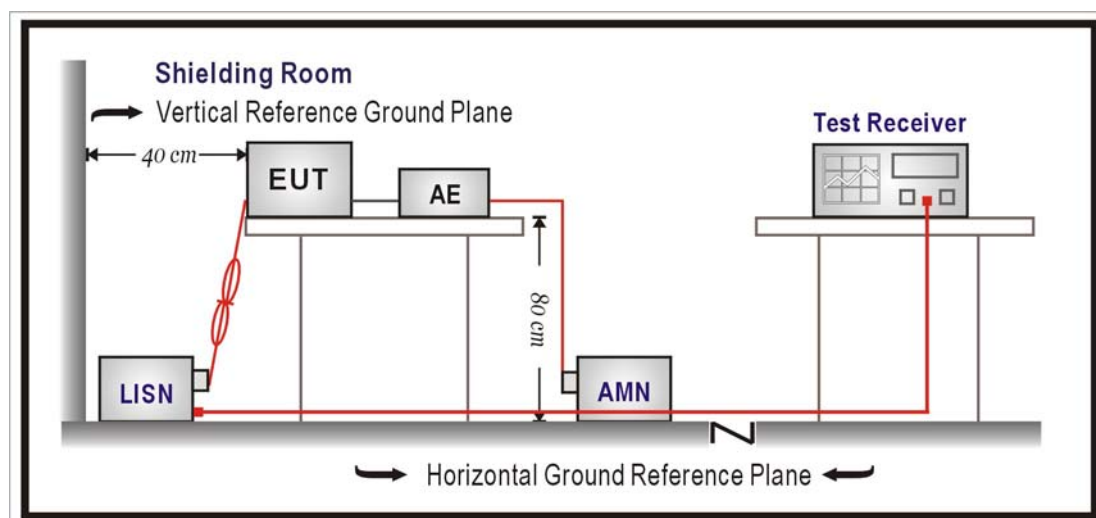
The following test equipments are used during the test:

Conducted Emission / SR2

Instrument	Manufacturer	Model No.	Serial No.	Next Cal. Date
Artificial Mains Network	R&S	ENV4200	848411/010	2016/01/25
LISN	R&S	ENV216	100092	2016/08/17
Test Receiver	R&S	ESCS 30	825442/014	2016/07/16

Note: 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 was setup according to ANSI C63.10: 2009 and tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs.)

Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

2.5. Test Specification

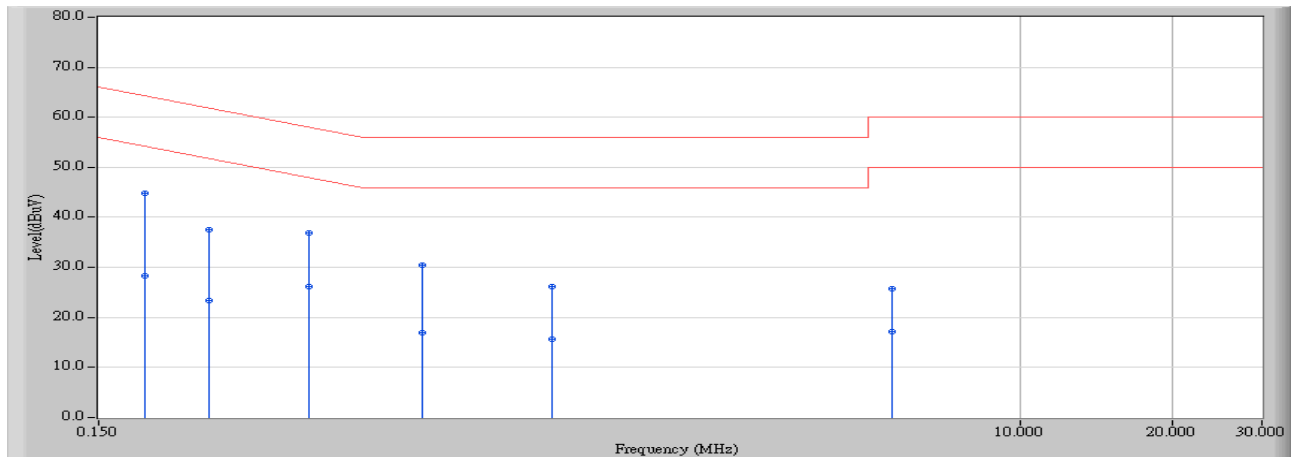
According to FCC Part 15 Subpart C Paragraph 15.207: 2014

2.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.7. Test Result

Site : SR2	Time : 2015/11/01 - 14:26
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-5_0818 - Line1	Power : AC 120V/60Hz
EUT : meMINI	Note : Mode 1: Transmit_2440MHz

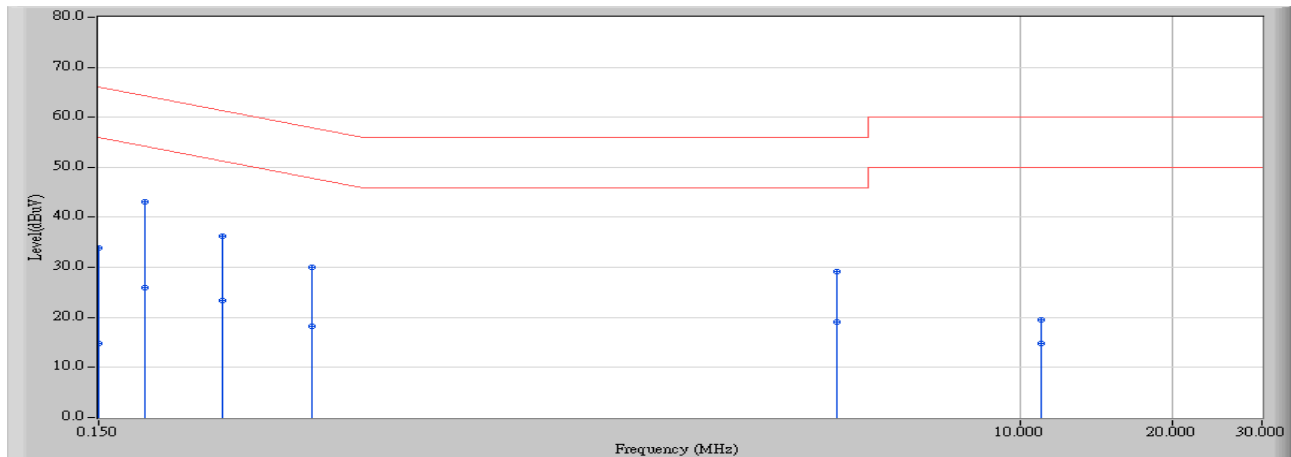


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.185	9.688	35.110	44.798	-19.453	64.251	QUASIPeAK
2		0.185	9.688	18.520	28.208	-26.043	54.251	AVERAGE
3		0.248	9.692	27.800	37.491	-24.344	61.835	QUASIPeAK
4		0.248	9.692	13.580	23.271	-28.564	51.835	AVERAGE
5		0.392	9.704	27.130	36.835	-21.182	58.017	QUASIPeAK
6		0.392	9.704	16.470	26.175	-21.842	48.017	AVERAGE
7		0.654	9.720	20.780	30.500	-25.500	56.000	QUASIPeAK
8		0.654	9.720	7.230	16.950	-29.050	46.000	AVERAGE
9		1.181	9.731	16.460	26.191	-29.809	56.000	QUASIPeAK
10		1.181	9.731	5.970	15.701	-30.299	46.000	AVERAGE
11		5.564	9.936	15.850	25.786	-34.214	60.000	QUASIPeAK
12		5.564	9.936	7.260	17.196	-32.804	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 : 2015/11/01 - 14:40
Limit : CISPR_B_00M_QP	Margin : 10
Probe : SR2_LISN(16A)-5_0818 - Line2	Power : AC 120V/60Hz
EUT : meMINI	Note : Mode 1: Transmit_2440MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.150	9.762	24.050	33.812	-32.188	66.000	QUASIPeAK
2		0.150	9.762	5.090	14.852	-41.148	56.000	AVERAGE
3	*	0.185	9.765	33.300	43.065	-21.186	64.251	QUASIPeAK
4		0.185	9.765	16.270	26.035	-28.216	54.251	AVERAGE
5		0.263	9.773	26.510	36.283	-25.044	61.327	QUASIPeAK
6		0.263	9.773	13.570	23.343	-27.984	51.327	AVERAGE
7		0.396	9.785	20.240	30.025	-27.910	57.935	QUASIPeAK
8		0.396	9.785	8.490	18.275	-29.660	47.935	AVERAGE
9		4.330	9.960	19.180	29.139	-26.861	56.000	QUASIPeAK
10		4.330	9.960	9.100	19.059	-26.941	46.000	AVERAGE
11		10.990	10.145	9.430	19.575	-40.425	60.000	QUASIPeAK
12		10.990	10.145	4.620	14.765	-35.235	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

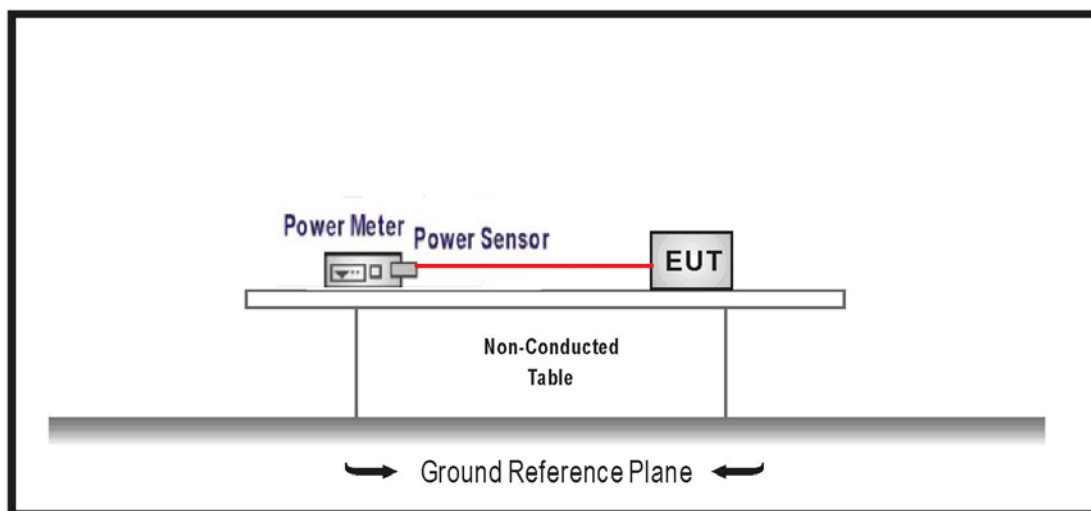
The following test equipments are used during the test:

Peak Power Output/ SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Power Meter	Agilent	N1911A	MY45101353	2016/10/11
Power Sensor	Agilent	N1921A	MY45241670	2016/10/11
USB Power Sensor	Keysight	U2021XA	MY54070005	2016/09/30
Temperature & Humidity Chamber	WIT	TH-1S-B	1082101	2016/01/22

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

3.2. Test Setup



3.3. Test procedures

The EUT was tested according to DTS test procedure section 9.1.2 of KDB558074 v03r02 measurement to FCC 47CFR 15.247 requirements.

3.4. Limits

The maximum peak power shall be less 1 Watt.

3.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2014

3.6. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB.

3.7. Test Result

Product	meMINI		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2015/10/14	Test Site	SR7

BLE 4.0 (GFSK)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
00	2402	0.170	30	Pass
19	2440	-0.635	30	Pass
40	2480	-1.292	30	Pass

4. Radiated Emission

4.1. Test Equipment

The following test equipments are used during the test:

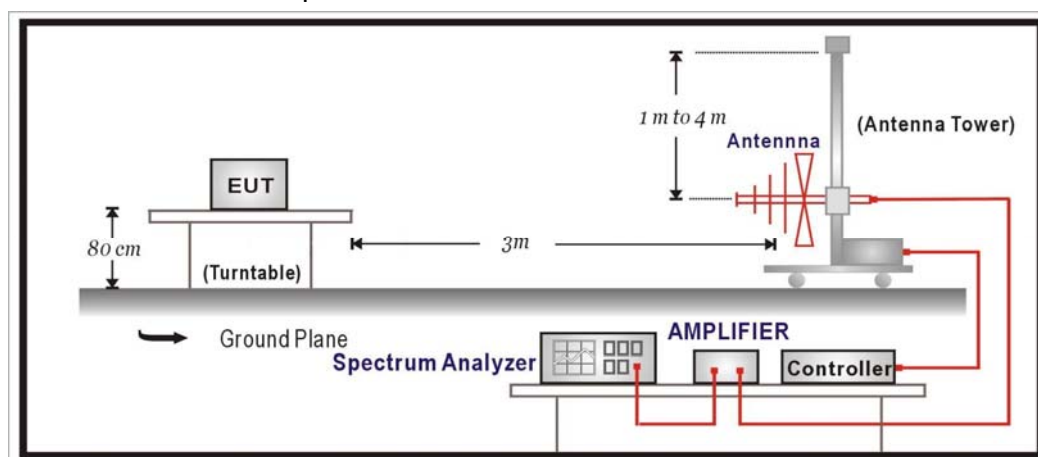
Radiated Emission / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Bilog Antenna	Schaffner	CBL6112B	2895	2016/08/14
Double Ridged Guide Horn Antenna	Schwarzbeck	BBHA 9120	D743	2016/01/26
Pre-Amplifier	EMCI	EMC0031835	980233	2016/01/18
Pre-Amplifier	QuieTek	AP-025C	CHM-0706049	2016/01/18
Spectrum Analyzer	Agilent	E4440A	MY46187335	2016/01/07
k Type Cable	Huber+Suhner	SF 102	25623/2	2016/01/26

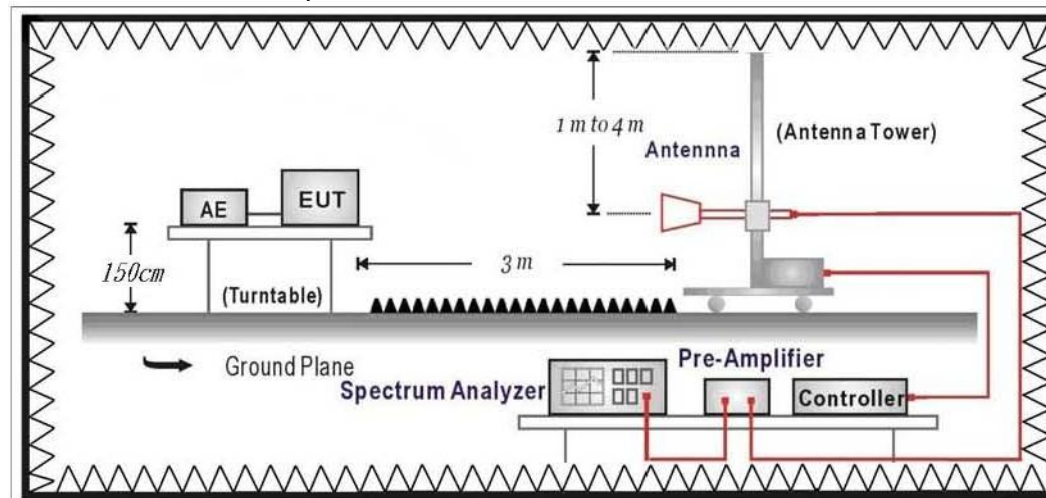
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

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	dBuV/m	dBuV/m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Remarks: E field strength (dBuV/m) = 20 log E field strength (uV/m)

4.4. Test Procedure

The EUT was setup according to ANSI C63.10: 213 and tested according to DTS test procedure of KDB558074 v03r02 for compliance to FCC 47CFR 15.247 requirements.

The EUT and its simulators are placed on a turn table which is 0.8 and 1.5 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: 213 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: 2014

4.6. Uncertainty

The measurement uncertainty

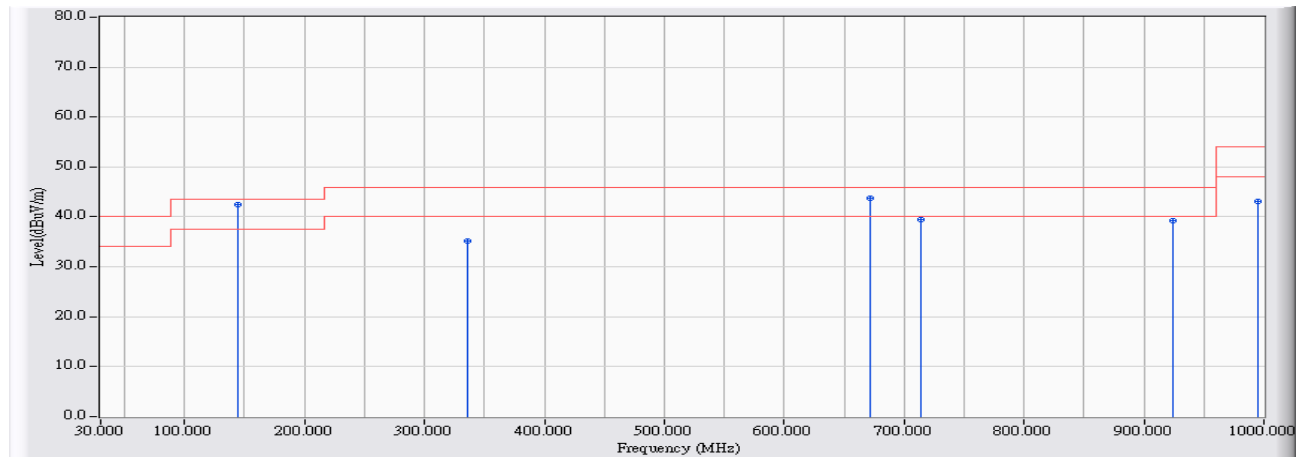
30MHz~1GHz as ± 3.43 dB

1GHz~26.5Ghz as ± 3.65 dB

4.7. Test Result

30MHz-1GHz Spurious

Site : CB1	Time : 2015/10/29 - 13:32
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	Power : DC 3.7V
EUT : meMINI	Note : Mode 1: Transmit_GFSK_2440MHz

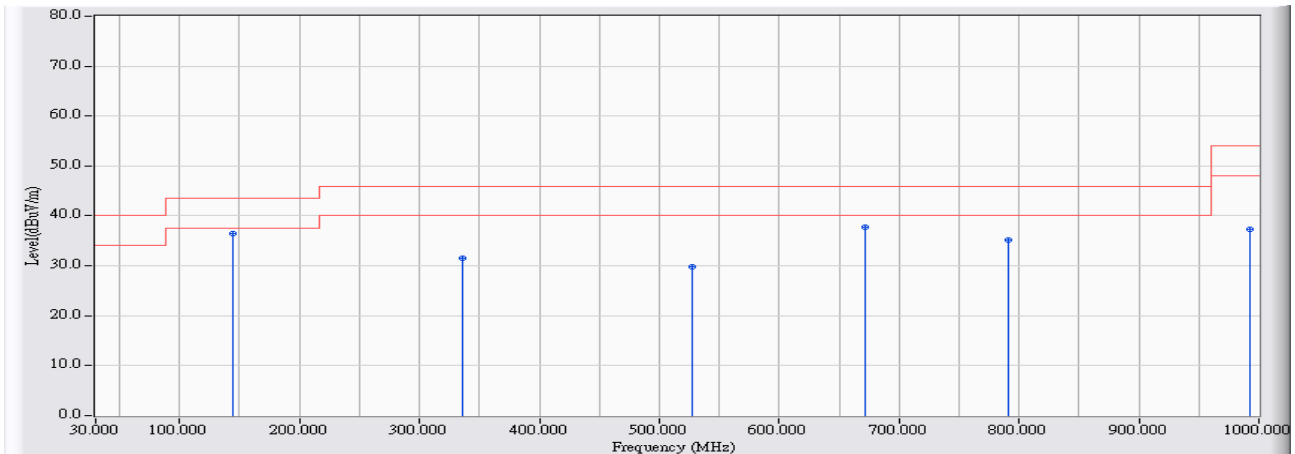


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	143.964	16.743	25.799	42.542	-0.958	43.500	QUASIPeAK
2		335.907	14.498	20.738	35.236	-10.764	46.000	QUASIPeAK
3		671.979	20.682	23.012	43.694	-2.306	46.000	QUASIPeAK
4		713.685	21.235	18.323	39.558	-6.442	46.000	QUASIPeAK
5		923.766	23.680	15.542	39.222	-6.778	46.000	QUASIPeAK
6		994.569	24.357	18.700	43.057	-10.943	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 : 2015/10/29 - 13:35
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	Power : DC 3.7V
EUT : meMINI	Note : Mode 1: Transmit _GFSK _2440MHz



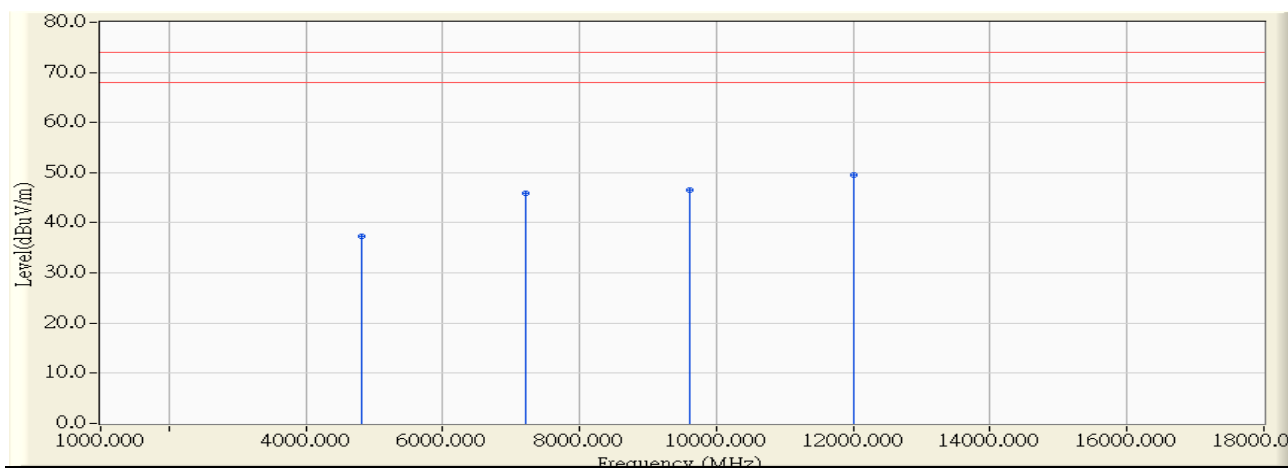
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	143.964	16.743	19.663	36.406	-7.094	43.500	QUASIPeAK
2		336.004	14.500	17.123	31.623	-14.377	46.000	QUASIPeAK
3		527.948	18.298	11.550	29.848	-16.152	46.000	QUASIPeAK
4		671.979	20.682	17.004	37.686	-8.314	46.000	QUASIPeAK
5		791.374	22.215	12.959	35.174	-10.826	46.000	QUASIPeAK
6		993.017	24.342	12.910	37.252	-16.748	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.

Above 1GHz Spurious

Site : CB1	Time : 2015/10/28 - 15:51
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power :DC 3.7V
EUT : meMINI	Note : Mode 1: Transmit _GFSK_2402MHz

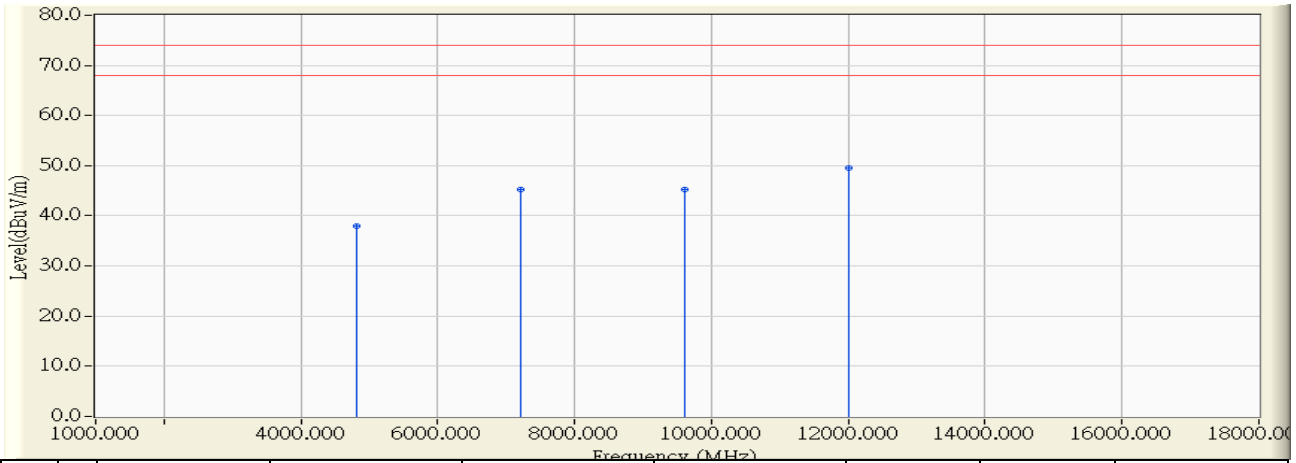


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4804.000	-1.624	39.036	37.412	-36.588	74.000	PEAK
2		7206.000	6.917	38.962	45.879	-28.121	74.000	PEAK
3		9608.000	8.452	38.028	46.480	-27.520	74.000	PEAK
4	*	12010.000	11.618	37.853	49.470	-24.530	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 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2015/10/28 - 15:49
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power :DC 3.7V
EUT : meMINI	Note : Mode 1: Transmit_GFSK_2402MHz

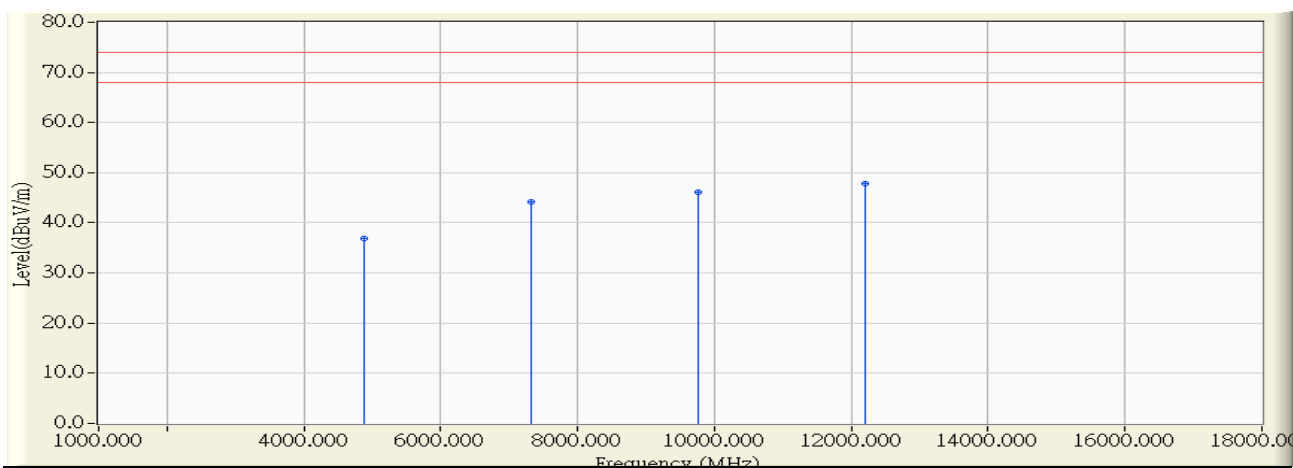


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4804.000	-0.677	38.680	38.004	-35.996	74.000	PEAK
2		7206.000	6.417	38.862	45.279	-28.721	74.000	PEAK
3		9608.000	8.014	37.276	45.290	-28.710	74.000	PEAK
4	*	12010.000	11.145	38.295	49.439	-24.561	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 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2015/10/28 - 15:55
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power :DC 3.7V
EUT : meMINI	Note : Mode 1: Transmit_GFSK_2440MHz

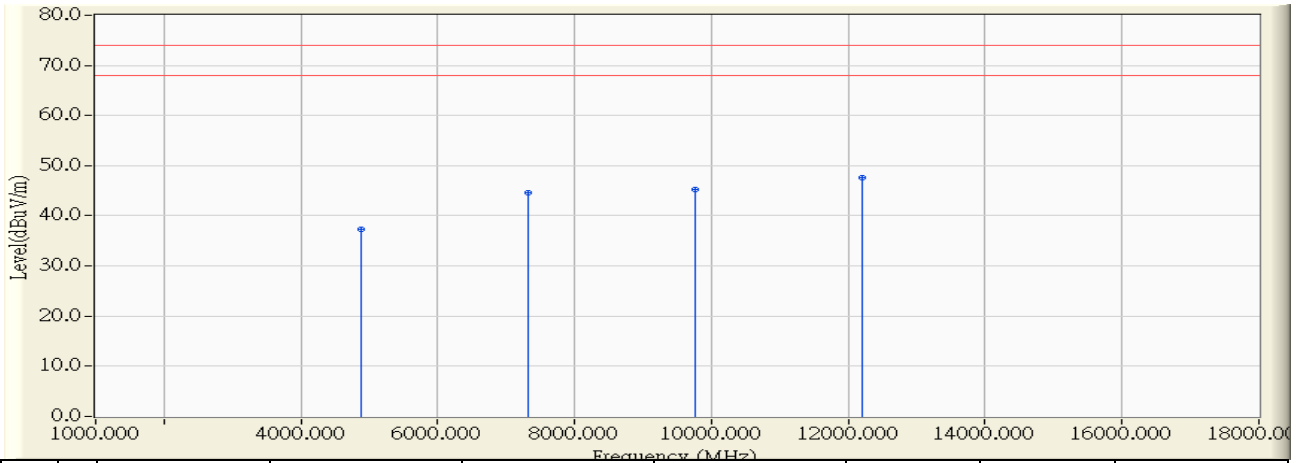


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4880.000	-1.439	38.256	36.817	-37.183	74.000	PEAK
2		7320.000	7.164	37.073	44.237	-29.763	74.000	PEAK
3		9760.000	9.284	36.744	46.028	-27.972	74.000	PEAK
4	*	12200.000	11.436	36.394	47.829	-26.171	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 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2015/10/28 - 15:59
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power :DC 3.7V
EUT : meMINI	Note : Mode 1: Transmit_GFSK_2440MHz

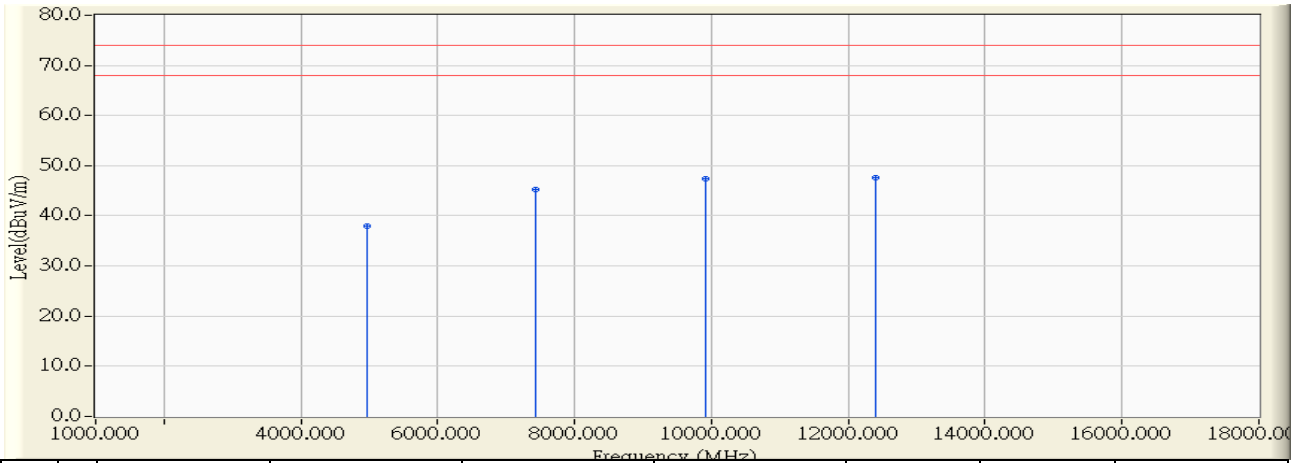


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4880.000	-0.682	38.009	37.328	-36.672	74.000	PEAK
2		7320.000	6.664	37.854	44.518	-29.482	74.000	PEAK
3		9760.000	8.618	36.717	45.335	-28.665	74.000	PEAK
4	*	12200.000	11.153	36.472	47.624	-26.376	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 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2015/10/28 - 16:03
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power :DC 3.7V
EUT : meMINI	Note : Mode 1: Transmit_GFSK_2480MHz

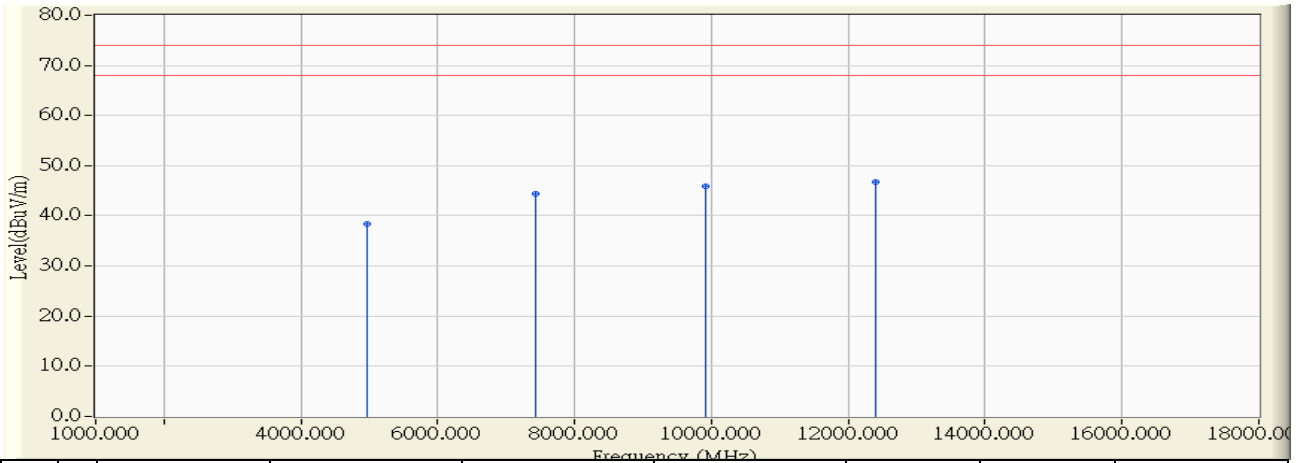


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4960.000	-1.243	39.178	37.935	-36.065	74.000	PEAK
2		7440.000	7.424	37.742	45.165	-28.835	74.000	PEAK
3		9920.000	10.160	37.210	47.370	-26.630	74.000	PEAK
4	*	12400.000	11.245	36.276	47.520	-26.480	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 18GHz were not included is because their levels are too low.

Site : CB1	Time : 2015/10/28 - 16:01
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power :DC 3.7V
EUT : meMINI	Note : Mode 1: Transmit_GFSK_2480MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4960.000	-0.686	38.993	38.307	-35.693	74.000	PEAK
2		7440.000	6.924	37.474	44.397	-29.603	74.000	PEAK
3		9920.000	9.254	36.627	45.881	-28.119	74.000	PEAK
4	*	12400.000	11.162	35.661	46.822	-27.178	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 18GHz were not included is because their levels are too low.

5. RF antenna conducted test

5.1. Test Equipment

The following test equipments are used during the test:

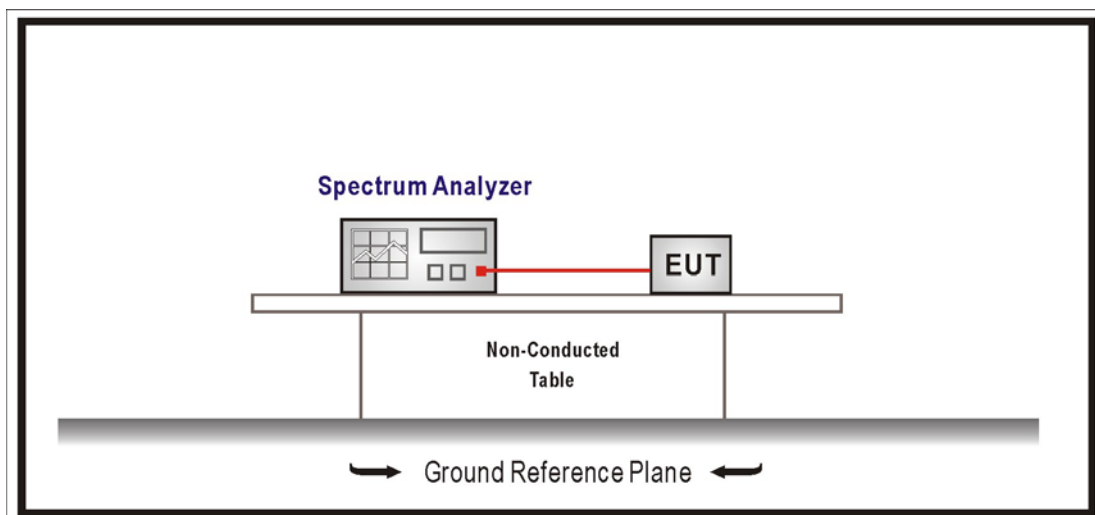
RF antenna conducted test / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2016/08/23
Signal & Spectrum Analyzer	R&S	FSV40	101049	2016/01/19

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

5.2. Test Setup

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 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power(RMS), 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 DTS test procedure section 11.0 of KDB558074 v03r02 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 100 kHz, Set VBW $\geq$ 3xRBW, scan up through 10th harmonic.

5.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2014

5.6. Uncertainty

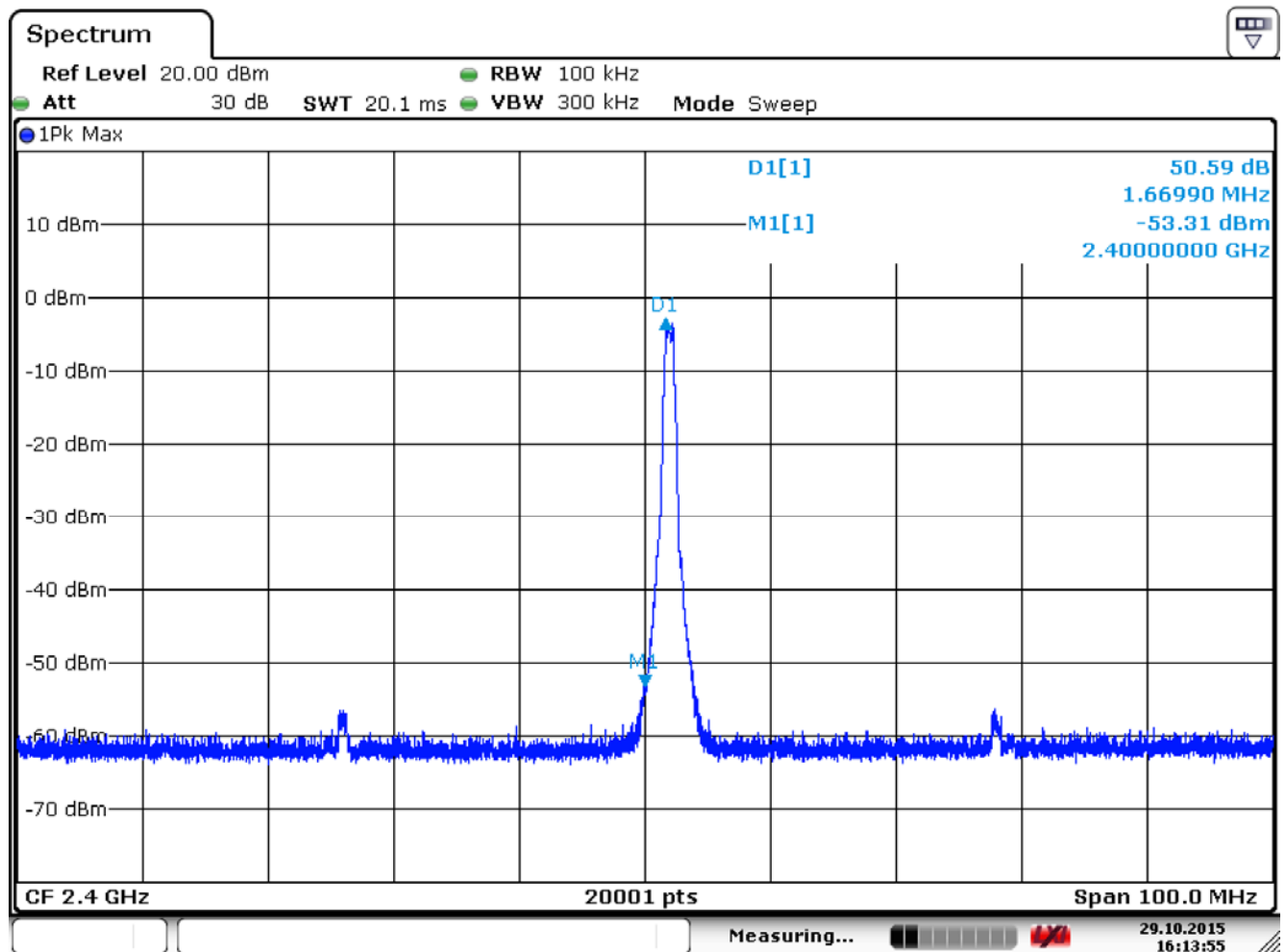
Conducted is defined as ± 1.27 dB

5.7. Test Result

Product	meMINI		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2015/10/14	Test Site	SR7

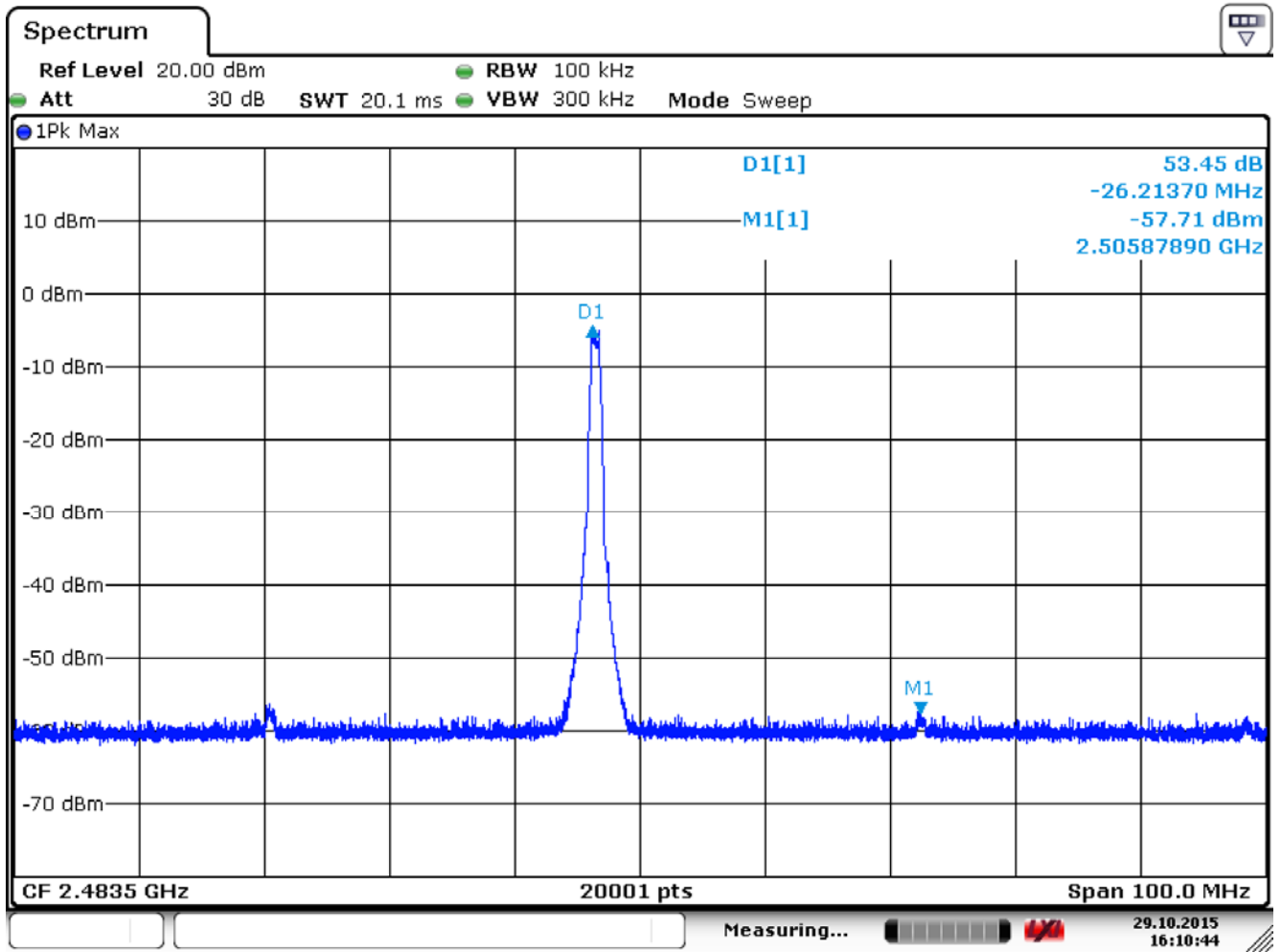
BLE 4.0 (GFSK)				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
00	2402	50.59	≥ 20	Pass
39	2480	53.45	≥ 20	Pass

Channel 00 (2402MHz)



Date: 29.OCT.2015 16:13:55

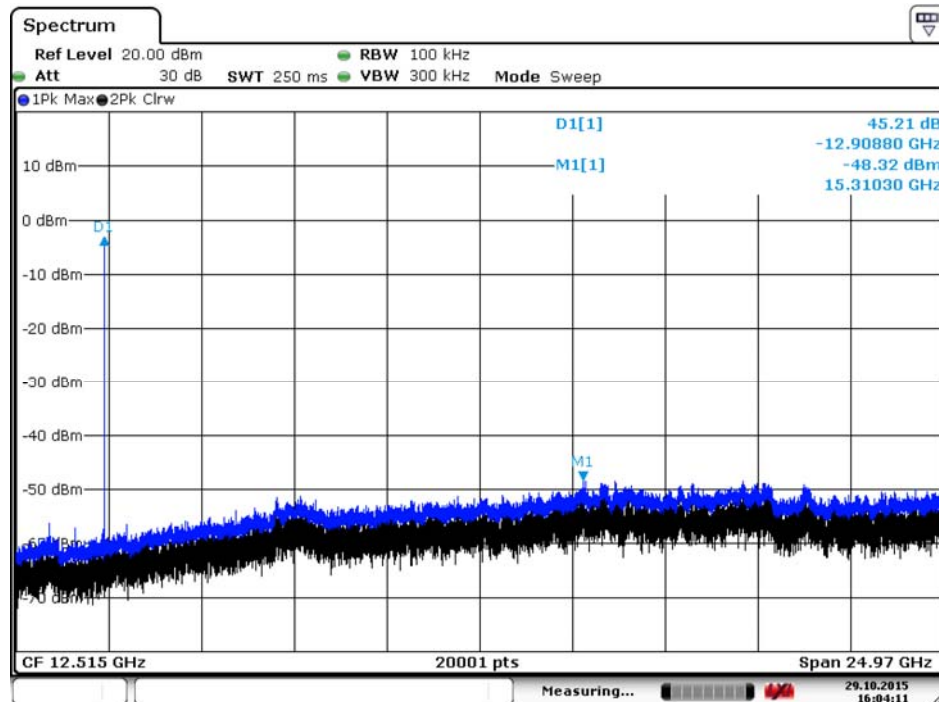
Channel 39 (2480MHz)



Date: 29.OCT.2015 16:10:44

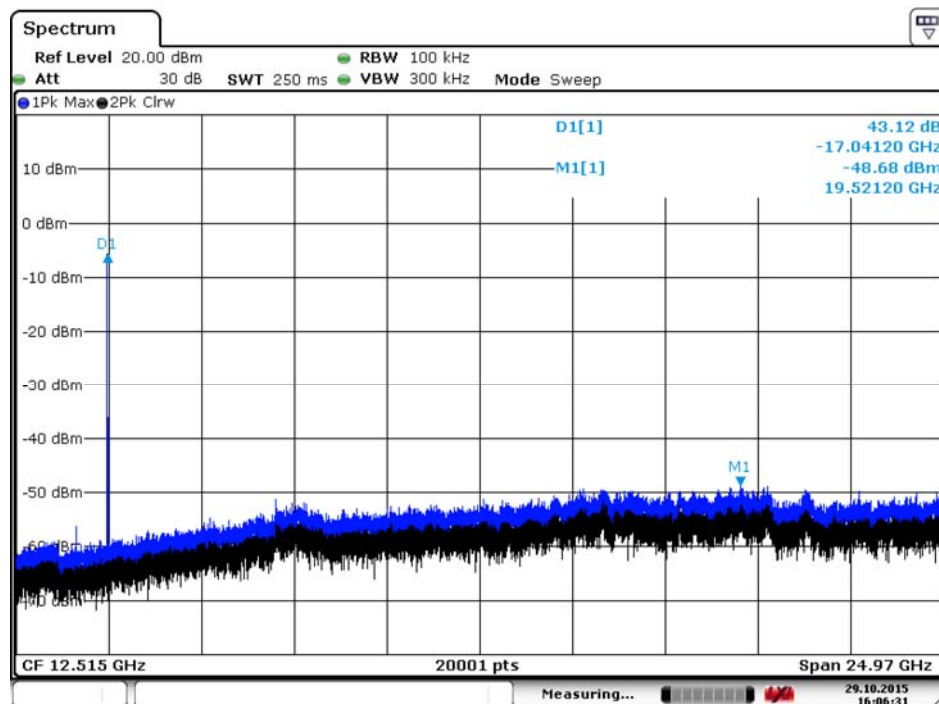
Product	meMINI		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2015/10/29	Test Site	SR7

Channel 00 (30MHz-25GHz)- BLE 4.0 (GFSK)



Date: 29.OCT.2015 16:04:11

Channel 39 (30MHz-25GHz)- BLE 4.0 (GFSK)



Date: 29.OCT.2015 16:06:31

6. Band Edge

6.1. Test Equipment

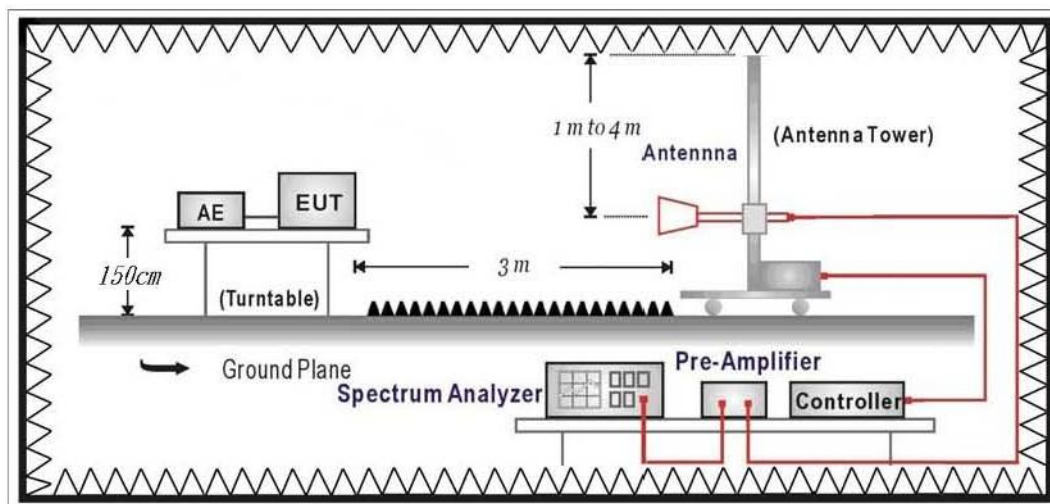
The following test equipments are used during the test:

Band Edge / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Double Ridged Guide Horn Antenna	Schwarzbeck	BBHA 9120	D743	2016/01/26
Spectrum Analyzer	Agilent	E4440A	MY46187335	2016/01/07
k Type Cable	Huber+Suhner	SF 102	25623/2	2016/01/26

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

6.2. Test Setup



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: 213 and tested according to DTS test procedure of KDB558074 v03r02 for compliance to FCC 47CFR 15.247 requirements.

The EUT and its simulators are placed on a turn table which is 1.5 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: 213 on radiated measurement.

6.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2014

6.6. Uncertainty

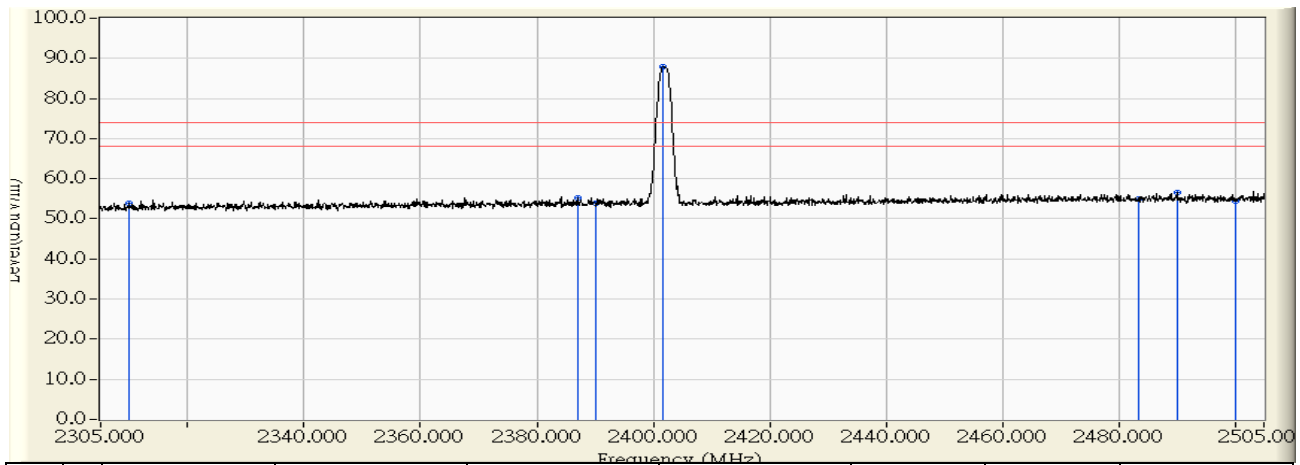
The measurement uncertainty

± 3.9 dB above 1GHz

6.7. Test Result

Radiated is defined as

Site : CB1	Time : 2015/10/28 - 14:58
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : DC 3.7V
EUT : meMINI	Note : Mode 1: Transmit_GFSK_2402MHz

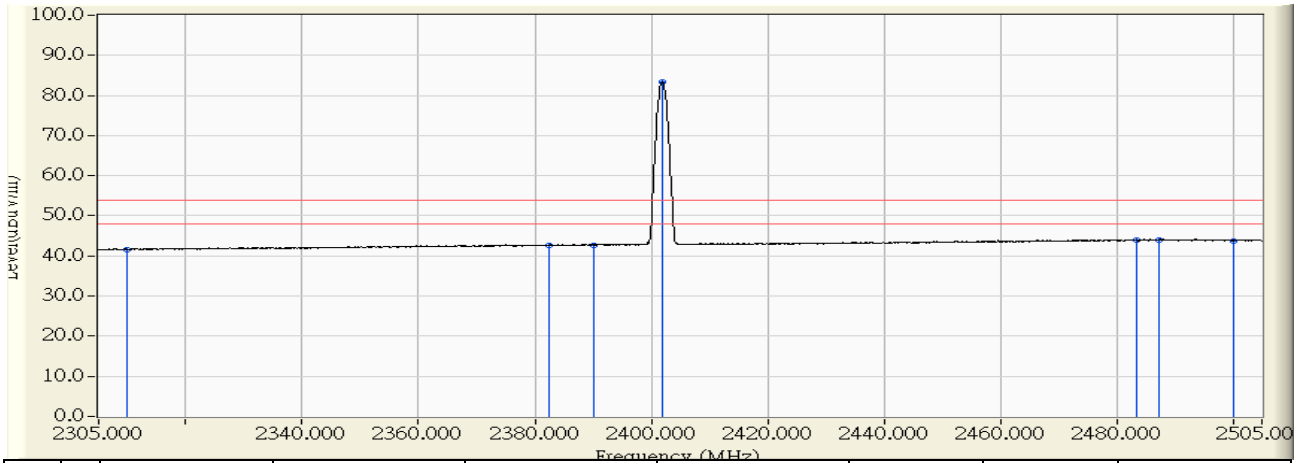


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	28.899	24.904	53.802	-20.198	74.000	PEAK
2	2387.000	29.736	25.493	55.229	-18.771	74.000	PEAK
3	2390.000	29.768	24.004	53.772	-20.228	74.000	PEAK
4	* 2401.600	29.894	57.963	87.857	13.857	74.000	PEAK
5	2483.500	30.738	24.120	54.859	-19.141	74.000	PEAK
6	2490.000	30.744	25.843	56.587	-17.413	74.000	PEAK
7	2500.000	30.740	23.744	54.483	-19.517	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.

Site : CB1	Time : 2015/10/28 - 14:56
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : DC 3.7V
EUT : meMINI	Note : Mode 1: Transmit_GFSK_2402MHz

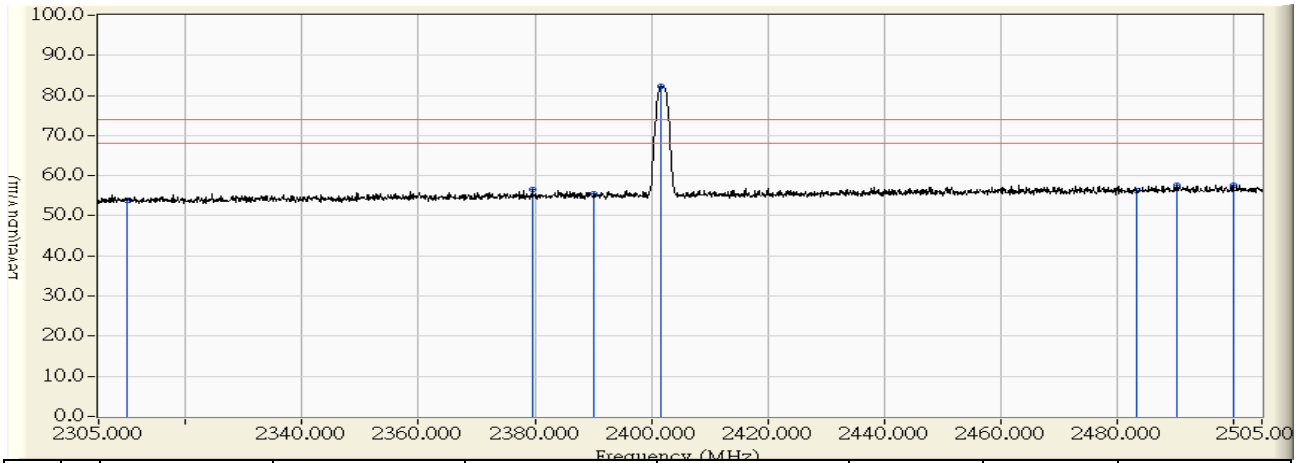


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	28.899	12.777	41.675	-12.325	54.000	AVERAGE
2	2382.400	29.685	13.039	42.725	-11.275	54.000	AVERAGE
3	2390.000	29.768	12.980	42.748	-11.252	54.000	AVERAGE
4	* 2401.900	29.897	53.445	83.342	29.342	54.000	AVERAGE
5	2483.500	30.738	13.185	43.924	-10.076	54.000	AVERAGE
6	2487.200	30.742	13.225	43.967	-10.033	54.000	AVERAGE
7	2500.000	30.740	13.094	43.833	-10.167	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.

Site : CB1	Time : 2015/10/28 - 14:53
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : DC 3.7V
EUT : meMINI	Note : Mode 1: Transmit_GFSK_2402MHz

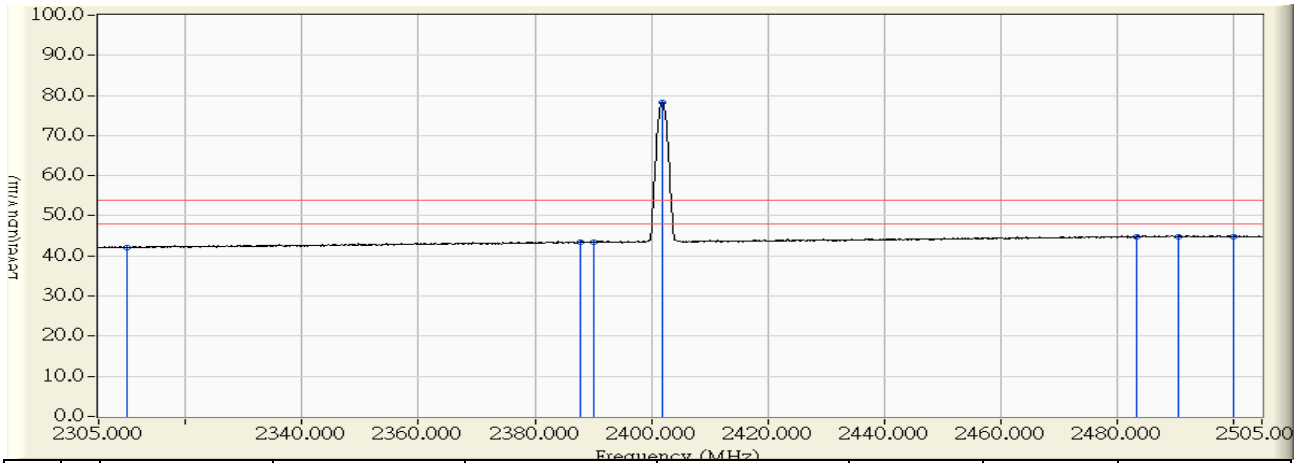


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.553	24.285	53.837	-20.163	74.000	PEAK
2	2379.500	30.447	26.131	56.578	-17.422	74.000	PEAK
3	2390.000	30.582	24.825	55.407	-18.593	74.000	PEAK
4	* 2401.600	30.732	51.590	82.321	8.321	74.000	PEAK
5	2483.500	31.739	24.534	56.274	-17.726	74.000	PEAK
6	2490.500	31.759	26.006	57.765	-16.235	74.000	PEAK
7	2500.000	31.774	25.742	57.515	-16.485	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.

Site : CB1	Time : 2015/10/28 - 14:55
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : DC 3.7V
EUT : meMINI	Note : Mode 1: Transmit_GFSK_2402MHz

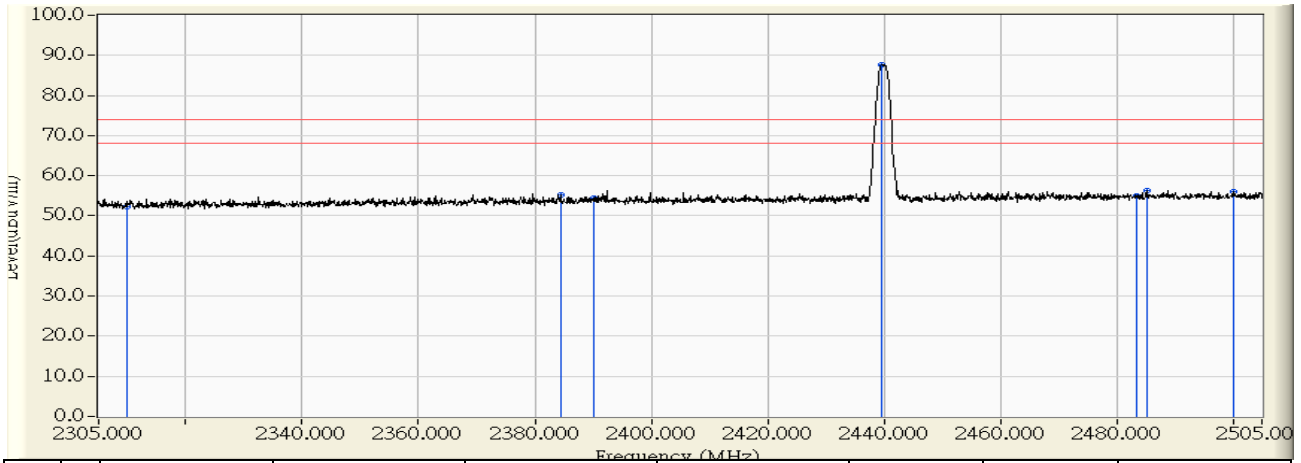


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.553	12.541	42.093	-11.907	54.000	AVERAGE
2	2387.700	30.553	13.004	43.557	-10.443	54.000	AVERAGE
3	2390.000	30.582	12.784	43.366	-10.634	54.000	AVERAGE
4	* 2401.900	30.735	47.527	78.262	24.262	54.000	AVERAGE
5	2483.500	31.739	13.035	44.775	-9.225	54.000	AVERAGE
6	2490.600	31.759	13.089	44.848	-9.152	54.000	AVERAGE
7	2500.000	31.774	12.960	44.733	-9.267	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.

Site : CB1	Time : 2015/10/28 - 15:12
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : DC 3.7V
EUT : meMINI	Note : Mode 1: Transmit_GFSK_2440MHz

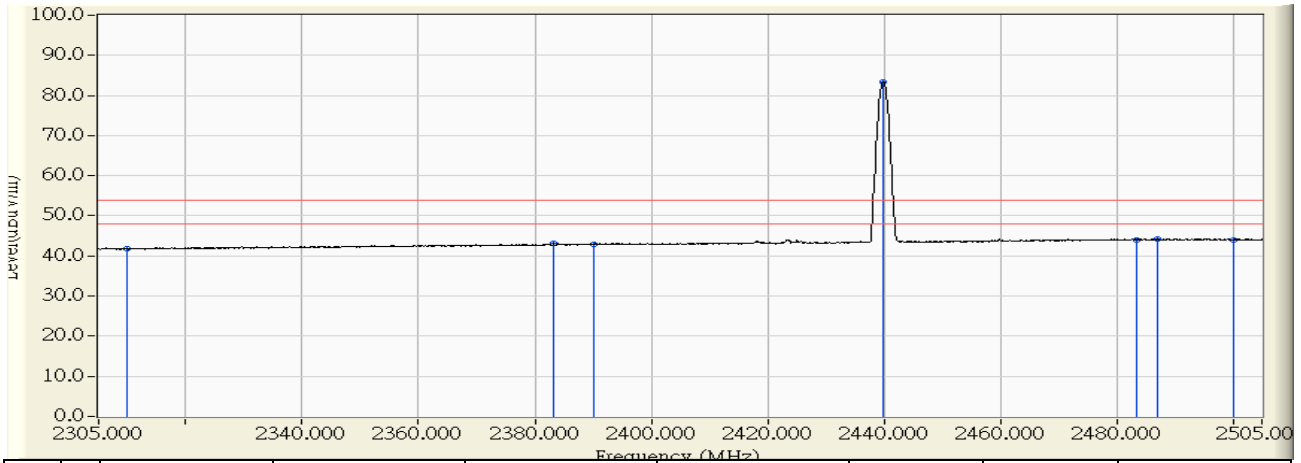


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	28.899	23.379	52.277	-21.723	74.000	PEAK
2	2384.400	29.708	25.560	55.267	-18.733	74.000	PEAK
3	2390.000	29.768	24.682	54.450	-19.550	74.000	PEAK
4	* 2439.700	30.308	57.380	87.688	13.688	74.000	PEAK
5	2483.500	30.738	24.170	54.909	-19.091	74.000	PEAK
6	2485.200	30.741	25.469	56.209	-17.791	74.000	PEAK
7	2500.000	30.740	25.426	56.165	-17.835	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.

Site : CB1	Time : 2015/10/28 - 15:11
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : DC 3.7V
EUT : meMINI	Note : Mode 1: Transmit_GFSK_2440MHz

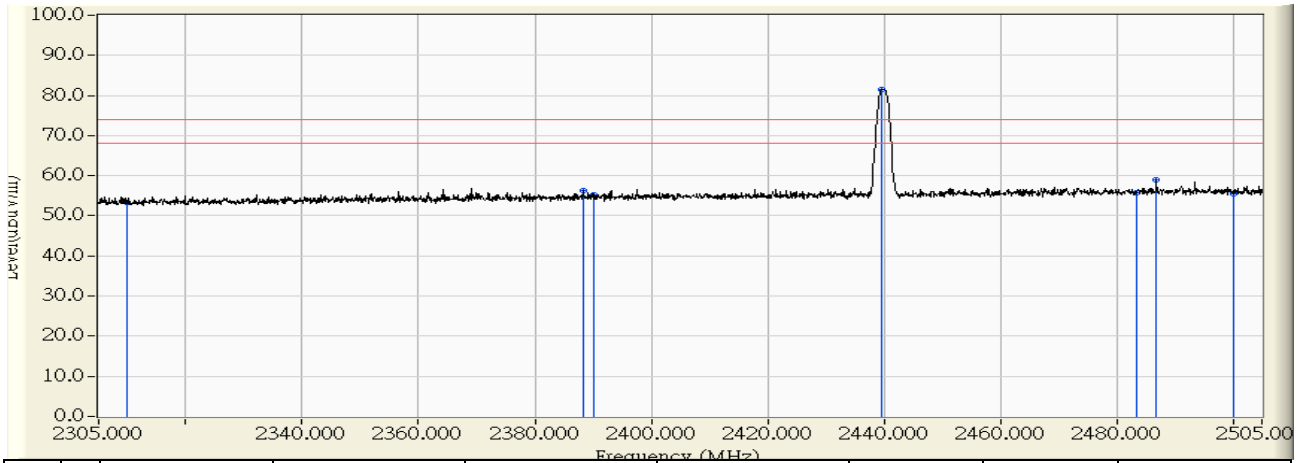


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	28.899	12.815	41.713	-12.287	54.000	AVERAGE
2	2383.200	29.694	13.433	43.127	-10.873	54.000	AVERAGE
3	2390.000	29.768	13.149	42.917	-11.083	54.000	AVERAGE
4	* 2439.900	30.311	53.072	83.383	29.383	54.000	AVERAGE
5	2483.500	30.738	13.311	44.050	-9.950	54.000	AVERAGE
6	2487.000	30.742	13.388	44.130	-9.870	54.000	AVERAGE
7	2500.000	30.740	13.264	44.003	-9.997	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.

Site : CB1	Time : 2015/10/28 - 15:08
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : DC 3.7V
EUT : meMINI	Note : Mode 1: Transmit_GFSK_2440MHz

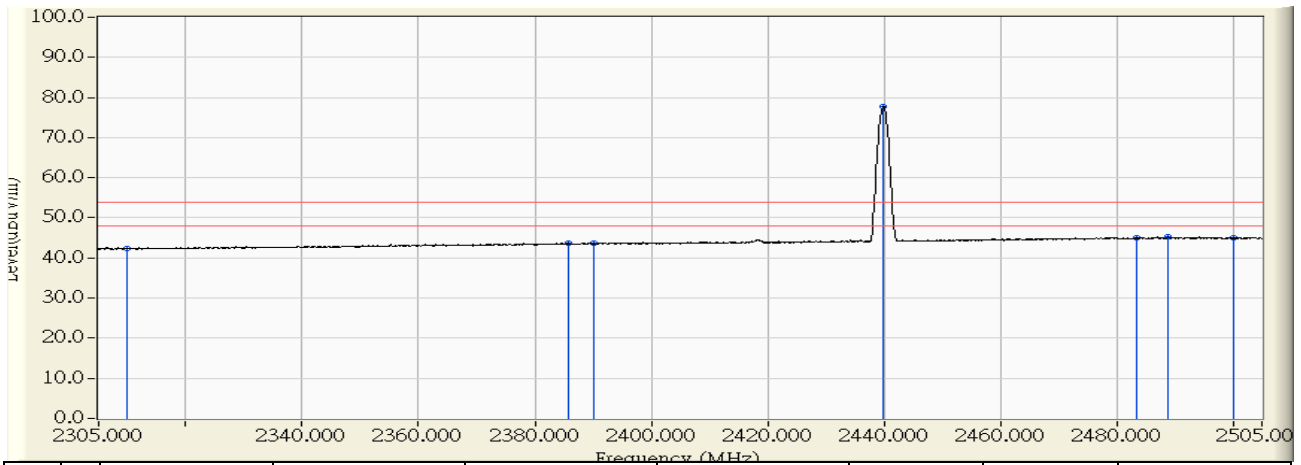


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.553	23.878	53.430	-20.570	74.000	PEAK
2	2388.300	30.560	25.617	56.177	-17.823	74.000	PEAK
3	2390.000	30.582	24.614	55.196	-18.804	74.000	PEAK
4	* 2439.700	31.221	50.341	81.563	7.563	74.000	PEAK
5	2483.500	31.739	23.948	55.688	-18.312	74.000	PEAK
6	2486.900	31.750	27.162	58.911	-15.089	74.000	PEAK
7	2500.000	31.774	23.795	55.568	-18.432	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.

Site : CB1	Time : 2015/10/28 - 15:09
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : DC 3.7V
EUT : meMINI	Note : Mode 1: Transmit_GFSK_2440MHz

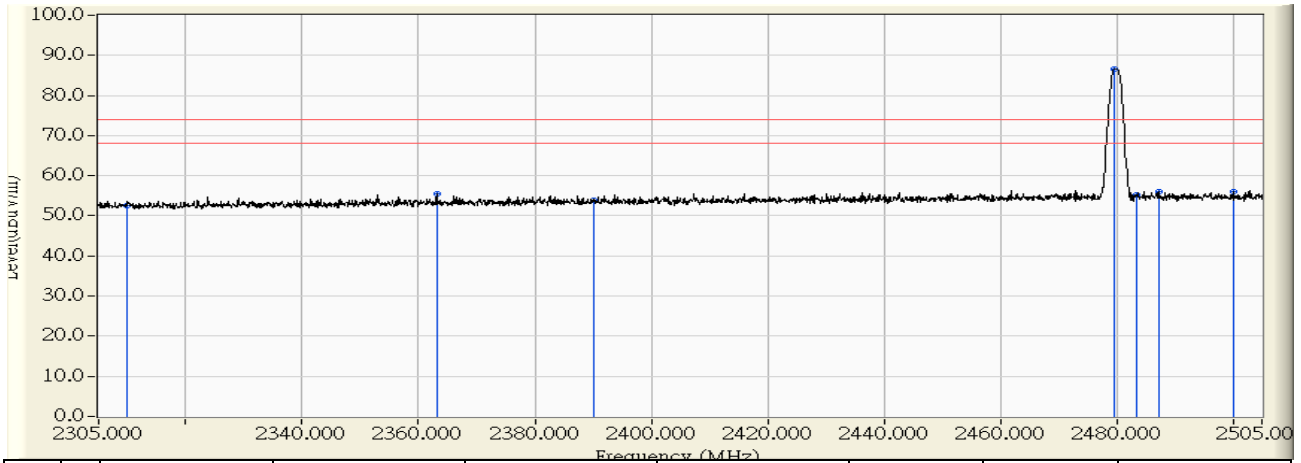


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.553	12.686	42.238	-11.762	54.000	AVERAGE
2	2385.700	30.527	13.042	43.569	-10.431	54.000	AVERAGE
3	2390.000	30.582	13.149	43.731	-10.269	54.000	AVERAGE
4	* 2439.900	31.225	46.414	77.638	23.638	54.000	AVERAGE
5	2483.500	31.739	13.280	45.020	-8.980	54.000	AVERAGE
6	2488.800	31.754	13.513	45.267	-8.733	54.000	AVERAGE
7	2500.000	31.774	13.175	44.948	-9.052	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.

Site : CB1	Time : 2015/10/28 - 15:00
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : DC 3.7V
EUT : meMINI	Note : Mode 1: Transmit_GFSK_2480MHz

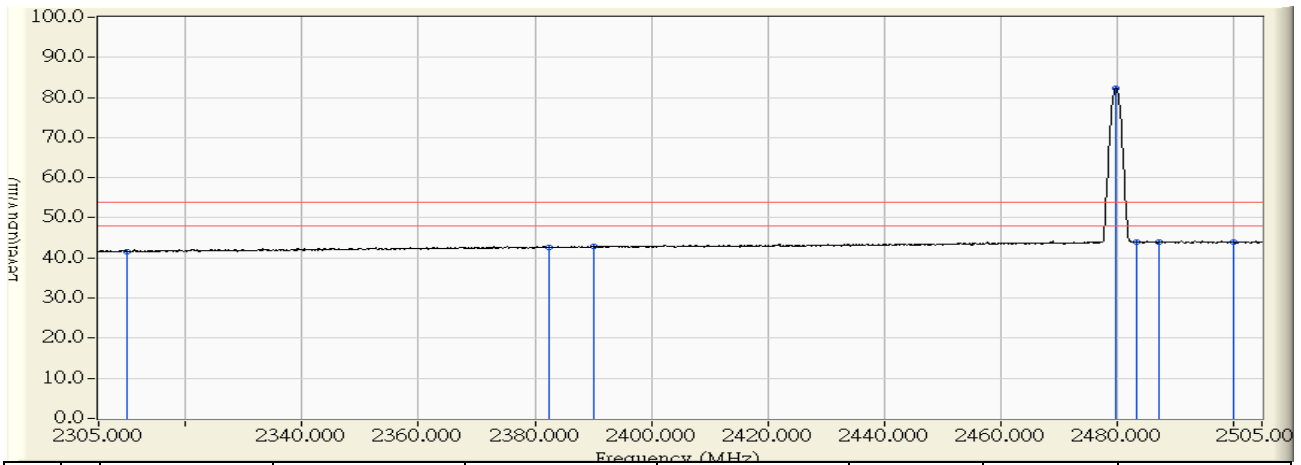


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	28.899	23.655	52.553	-21.447	74.000	PEAK
2	2363.100	29.476	26.013	55.489	-18.511	74.000	PEAK
3	2390.000	29.768	24.231	53.999	-20.001	74.000	PEAK
4	* 2479.600	30.736	55.951	86.687	12.687	74.000	PEAK
5	2483.500	30.738	24.401	55.140	-18.860	74.000	PEAK
6	2487.400	30.742	25.203	55.945	-18.055	74.000	PEAK
7	2500.000	30.740	25.267	56.006	-17.994	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.

Site : CB1	Time : 2015/10/28 - 15:01
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	Power : DC 3.7V
EUT : meMINI	Note : Mode 1: Transmit_GFSK_2480MHz

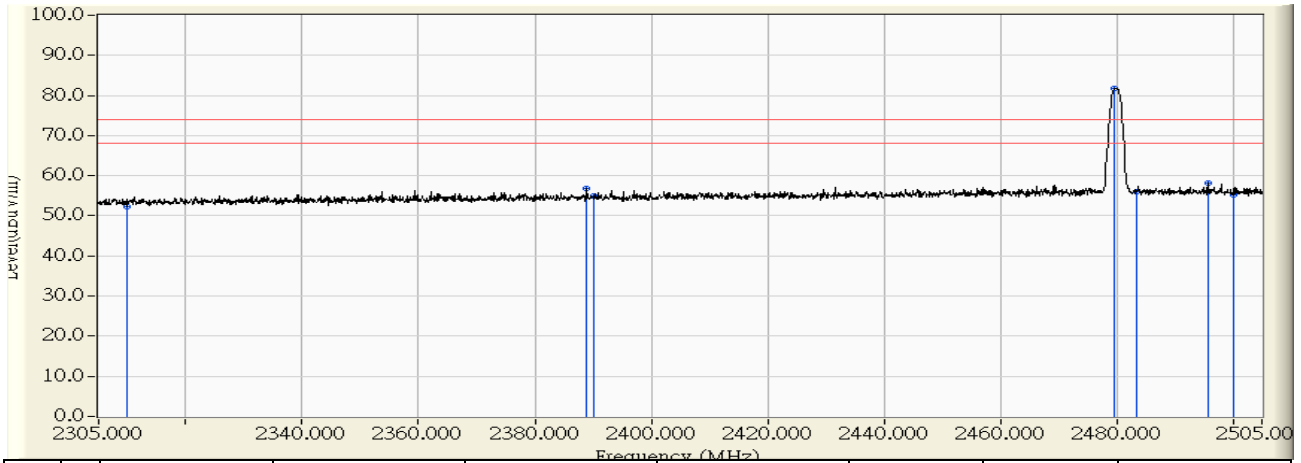


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	28.899	12.680	41.578	-12.422	54.000	AVERAGE
2	2382.500	29.686	13.039	42.726	-11.274	54.000	AVERAGE
3	2390.000	29.768	13.024	42.792	-11.208	54.000	AVERAGE
4	* 2479.900	30.736	51.678	82.414	28.414	54.000	AVERAGE
5	2483.500	30.738	13.194	43.933	-10.067	54.000	AVERAGE
6	2487.400	30.742	13.247	43.989	-10.011	54.000	AVERAGE
7	2500.000	30.740	13.138	43.877	-10.123	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.

Site : CB1	Time : 2015/10/28 - 15:05
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : DC 3.7V
EUT : meMINI	Note : Mode 1: Transmit_GFSK_2480MHz

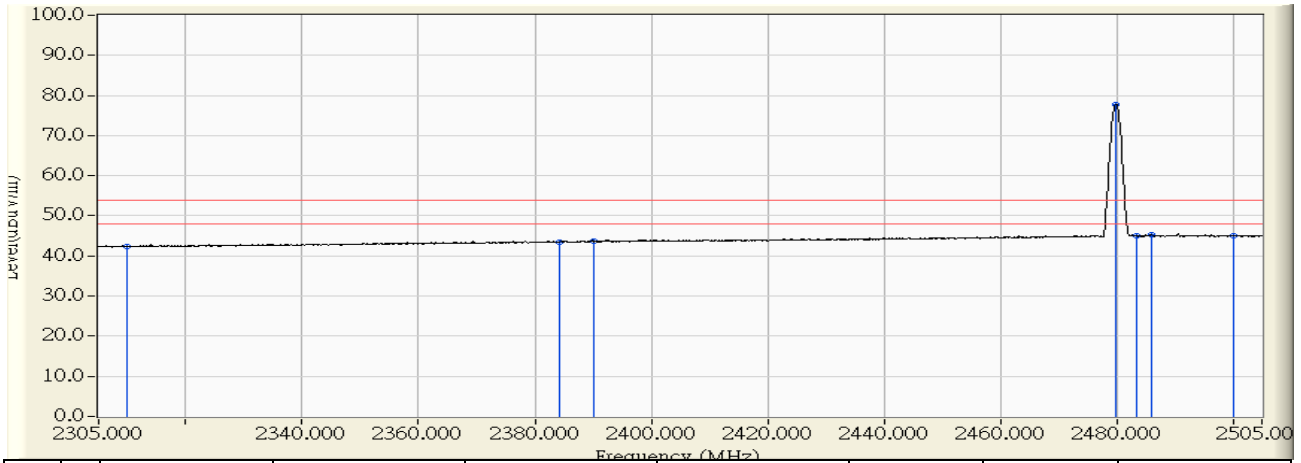


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.553	22.802	52.354	-21.646	74.000	PEAK
2	2388.900	30.568	26.358	56.926	-17.074	74.000	PEAK
3	2390.000	30.582	24.471	55.053	-18.947	74.000	PEAK
4	* 2479.700	31.730	50.099	81.829	7.829	74.000	PEAK
5	2483.500	31.739	24.337	56.077	-17.923	74.000	PEAK
6	2495.700	31.774	26.519	58.292	-15.708	74.000	PEAK
7	2500.000	31.774	23.563	55.336	-18.664	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.

Site : CB1	Time : 2015/10/28 - 15:03
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	Power : DC 3.7V
EUT : meMINI	Note : Mode 1: Transmit_GFSK_2480MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.553	12.719	42.271	-11.729	54.000	AVERAGE
2	2384.300	30.509	13.052	43.561	-10.439	54.000	AVERAGE
3	2390.000	30.582	13.019	43.601	-10.399	54.000	AVERAGE
4	* 2479.800	31.730	46.096	77.826	23.826	54.000	AVERAGE
5	2483.500	31.739	13.371	45.111	-8.889	54.000	AVERAGE
6	2485.900	31.746	13.584	45.331	-8.669	54.000	AVERAGE
7	2500.000	31.774	13.268	45.041	-8.959	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. DTS Occupied Bandwidth

7.1. Test Equipment

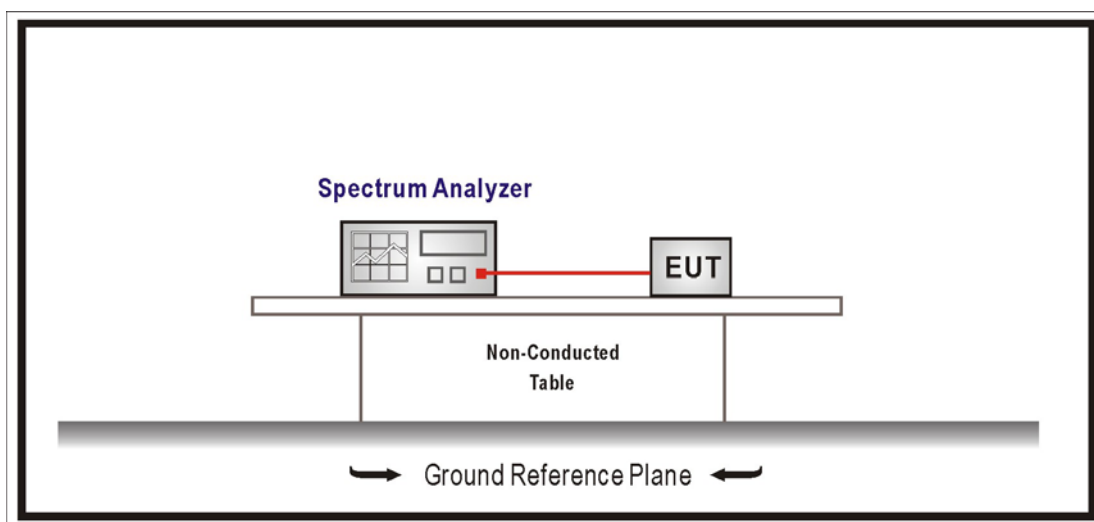
The following test equipments are used during the test:

DTS Occupied Bandwidth / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2016/08/23

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

7.2. Test Setup



7.3. Test Procedures

The EUT was setup according to ANSI C63.10:2013; tested according to DTS test procedure of KDB558074 v03r02 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 1-5% of the OBW, Set the VBW $\geq$ 3xRBW, Sweep Time=Auto.

7.4. Limits

The 6 dB bandwidth must be greater than 500 kHz.

7.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2014

7.6. Uncertainty

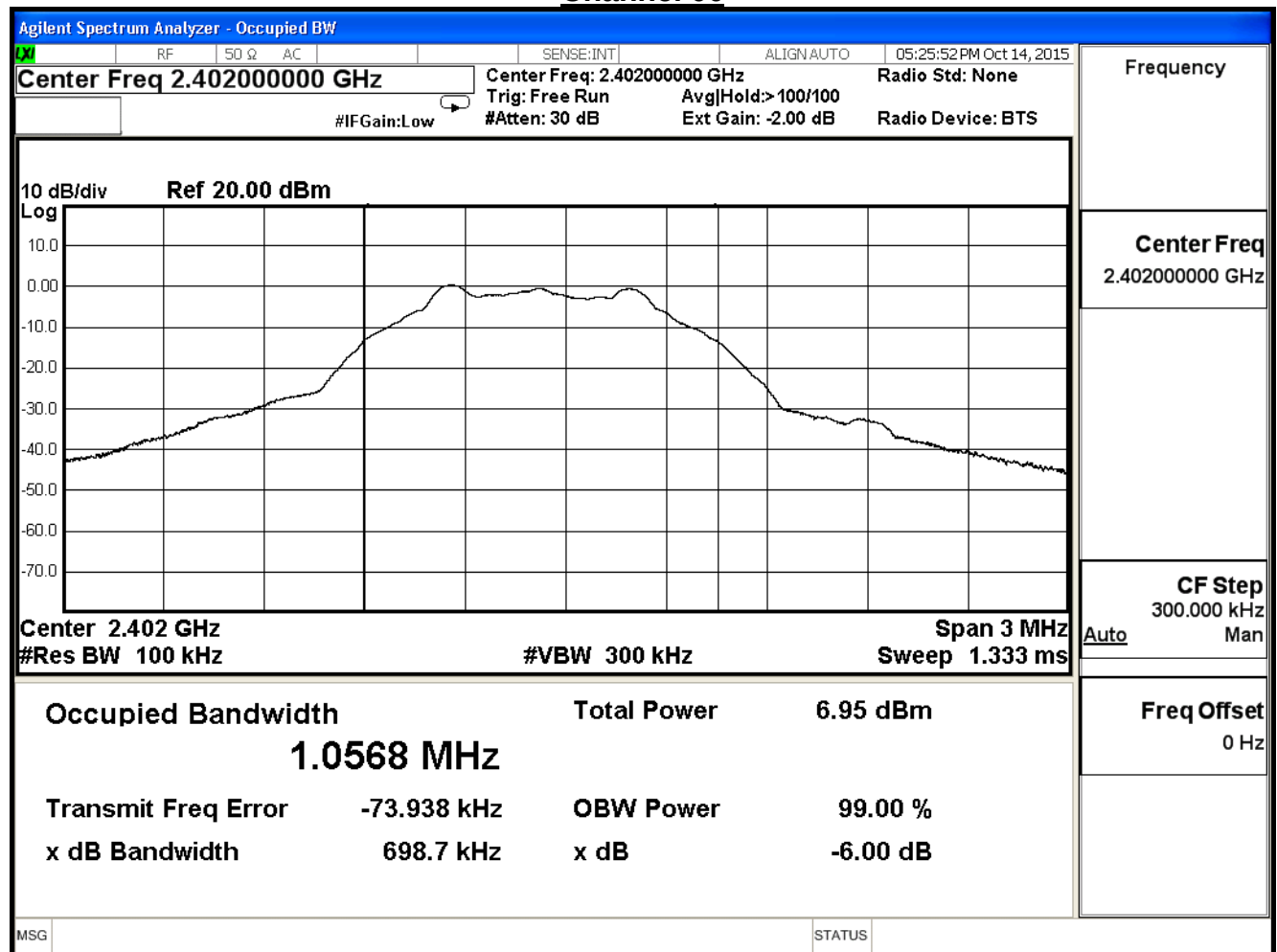
The measurement uncertainty is defined as $\pm 150\text{Hz}$

7.7. Test Result

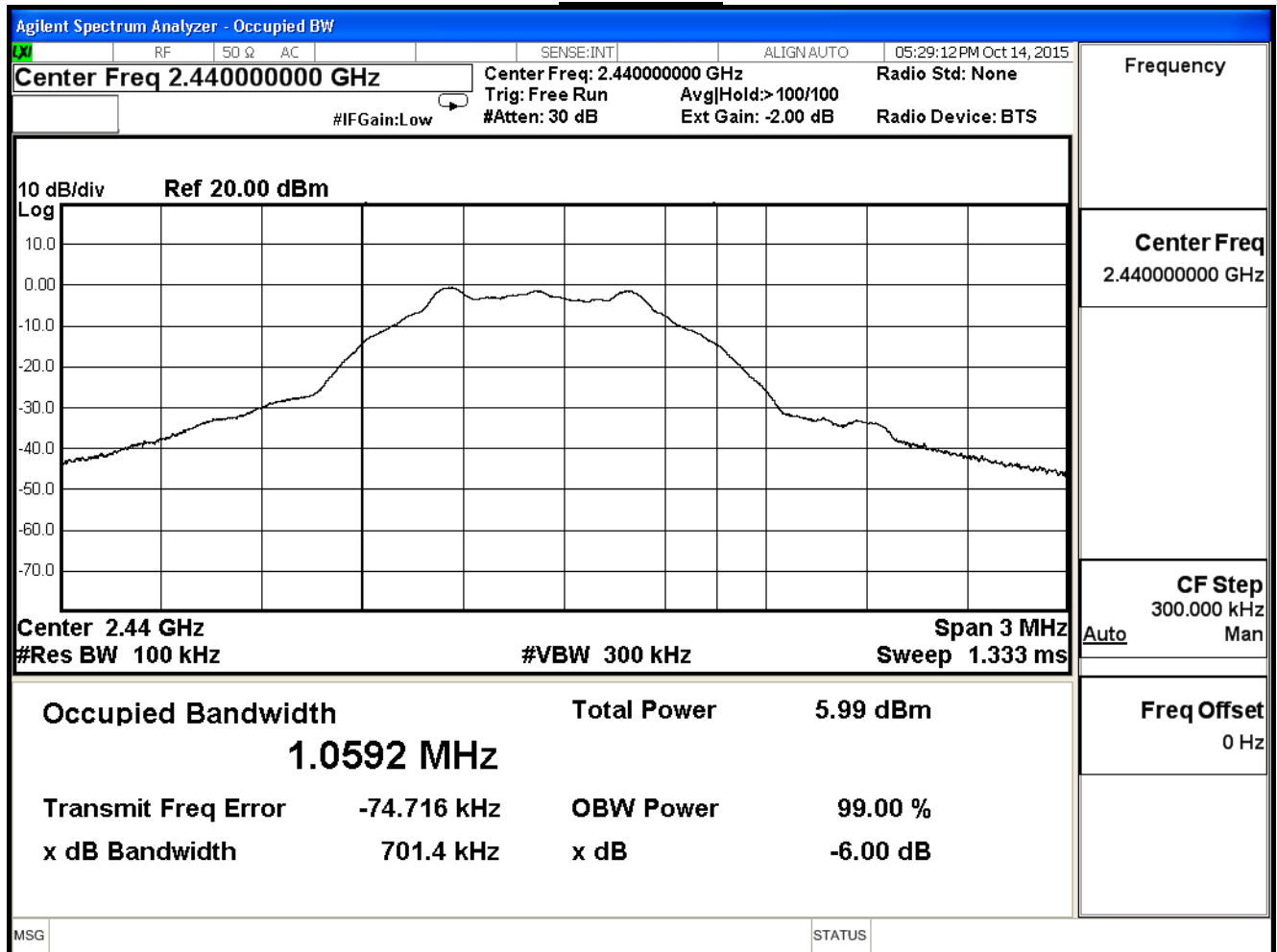
Product	meMINI		
Test Item	DTS Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2015/10/14	Test Site	SR7

BLE 4.0 (GFSK)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
00	2402	0.699	≥ 0.5	Pass
19	2440	0.701	≥ 0.5	Pass
39	2480	0.697	≥ 0.5	Pass

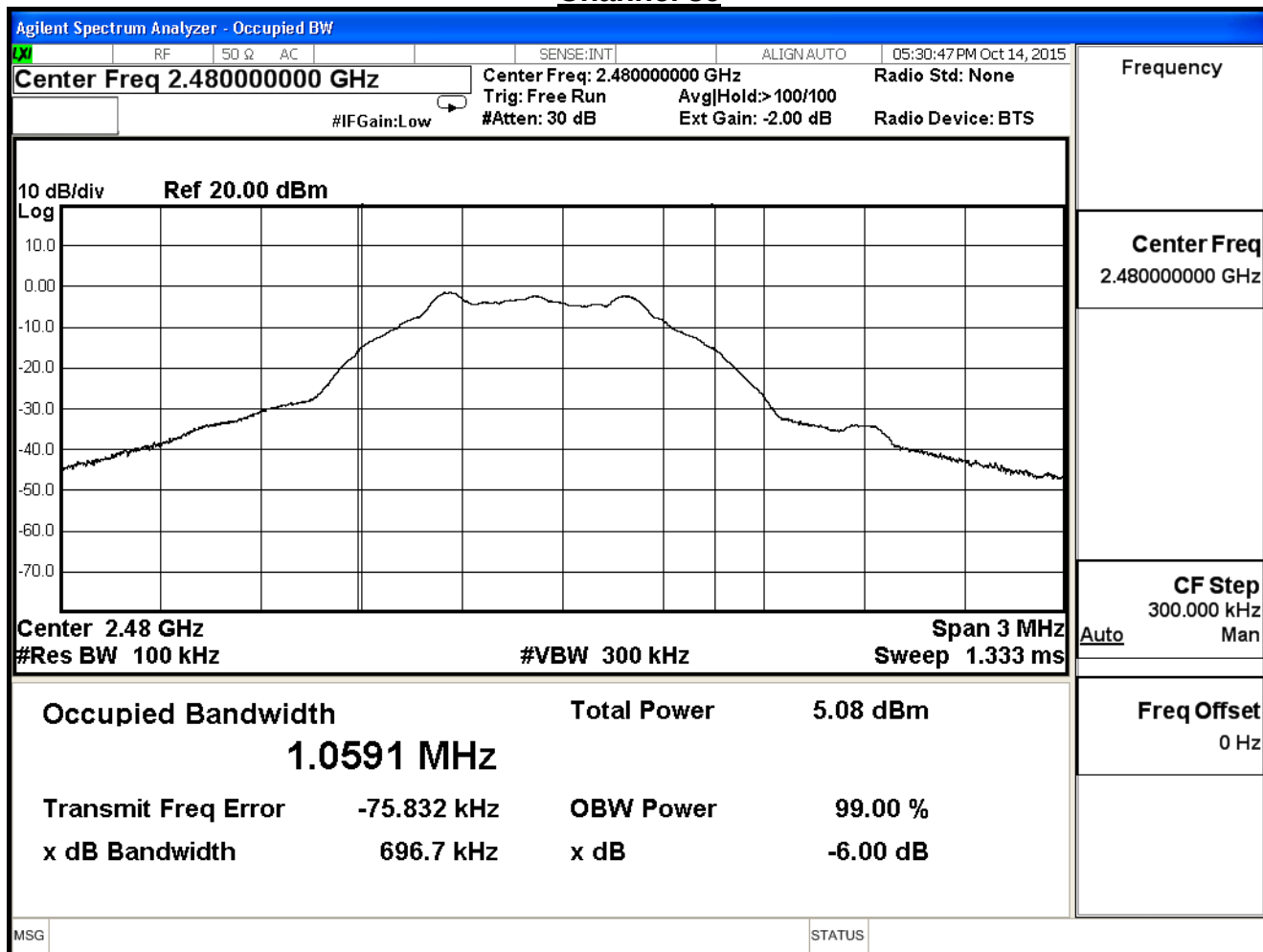
Channel 00



Channel 19



Channel 39



8. Power Density

8.1. Test Equipment

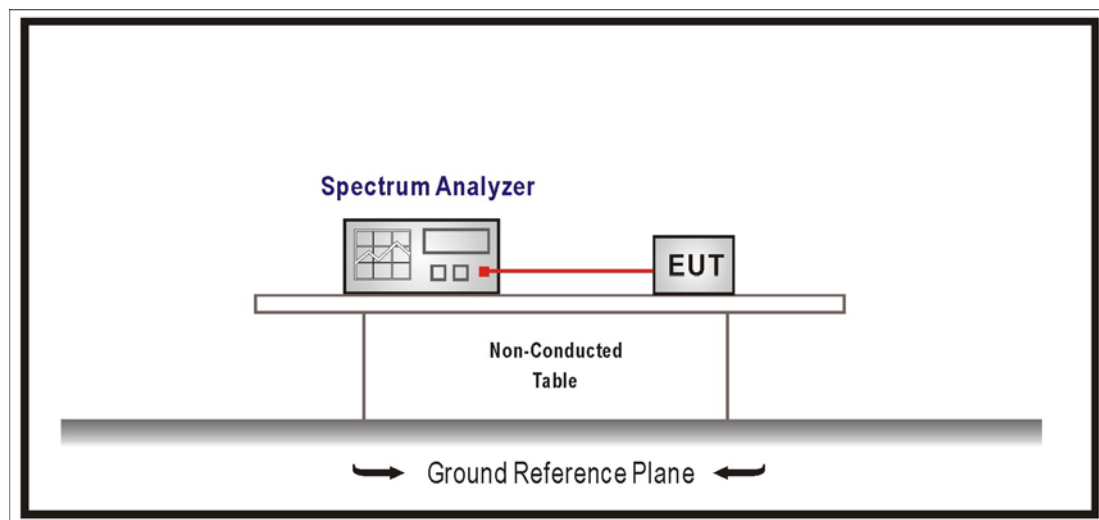
The following test equipment is used during the test:

Power Density / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2016/08/23

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

8.2. Test Setup



8.3. Limits

The peak power spectral density conducted from the intentional radiated to the antenna shall not be greater than +8dBm in any 3kHz band during any time interval of continuous transmission.

8.4. Test Procedures

The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure section 10.2 of KDB558074 v03r02 for compliance to FCC 47CFR 15.247 requirements. Set 3KHz $\leq$ RBW $\leq$ 100 kHz, Set VBW $\geq$ 3xRBW, Sweep time=Auto, Set Peak detector; The tested according to section E)c) of KDB662911 v02v01.

8.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2014

8.6. Uncertainty

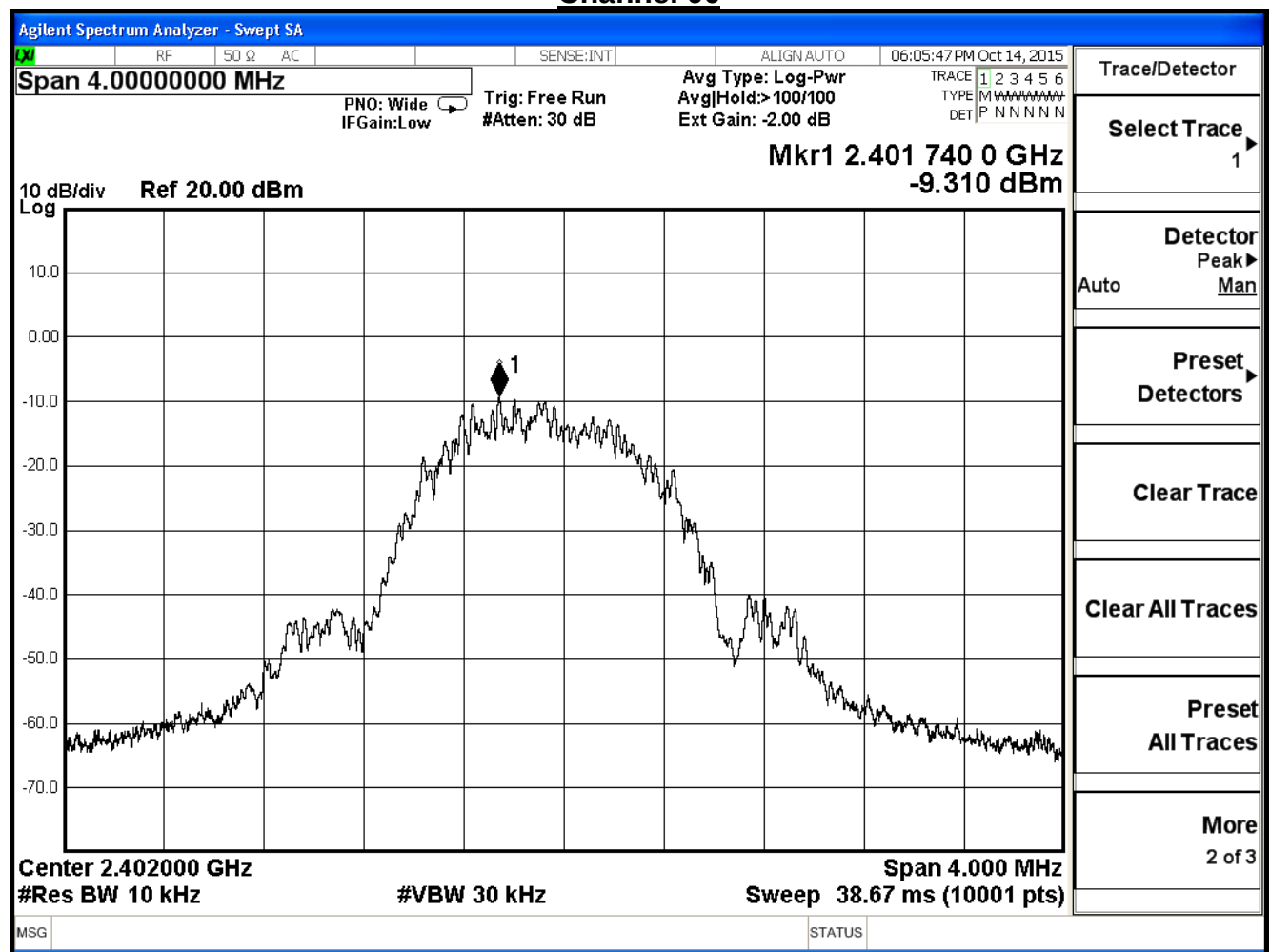
The measurement uncertainty is defined as ± 1.27 dB.

8.7. Test Result

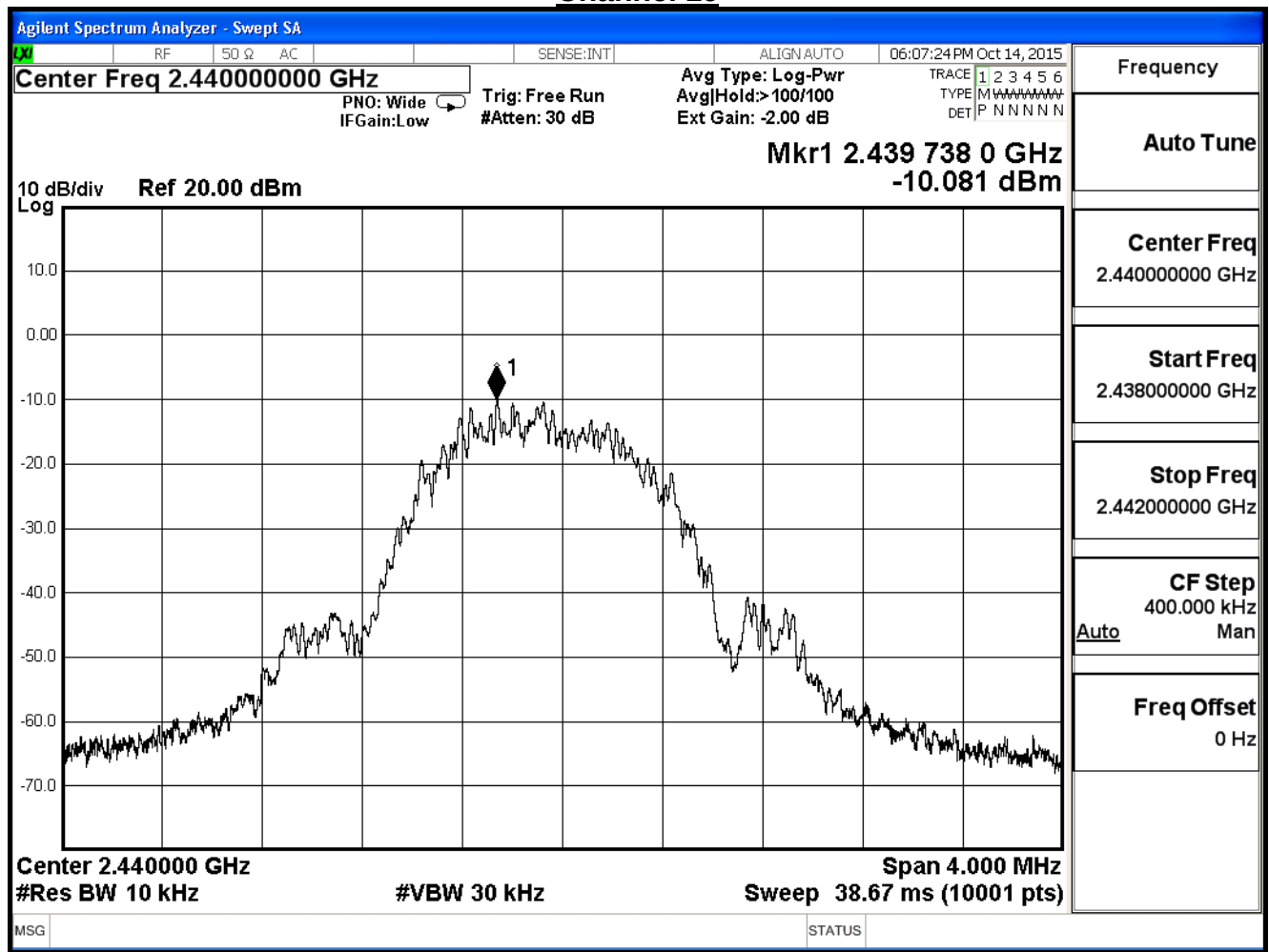
Product	meMINI		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2015/10/14	Test Site	SR7

BLE 4.0 (GFSK)				
Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
0	2402	-9.310	≤ 8	Pass
19	2440	-10.081	≤ 8	Pass
39	2480	-10.905	≤ 8	Pass

Channel 00



Channel 19



Channel 39

