

FCC PART 15C TEST REPORT FOR CERTIFICATION  
On Behalf of

Mechanic Advisor, Inc

Mechanic Advisor Connection Key

Model Number: CK01

FCC ID: 2AG52CK01

Prepared for : Mechanic Advisor, Inc  
11 Elkins Street, Suite 310, Boston, MA 02127, United States

Prepared By : EST Technology Co., Ltd.  
Santun(guantai Road), Houjie Town, DongGuan City,  
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Tel: 86-769-83081888-808

Report Number: ESTE-R1601010  
Date of Test : December 24, 2015~ January 10, 2016  
Date of Report : January 11, 2016


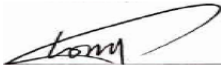

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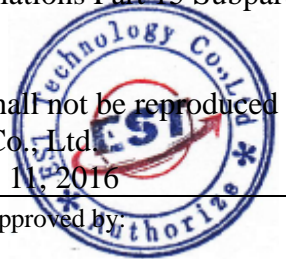
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## Test Report Verification

<b>Applicant:</b>	Mechanic Advisor, Inc		
<b>Address:</b>	11 Elkins Street, Suite 310, Boston, MA 02127, United States		
<b>Manufacturer</b>	Mechanic Advisor, Inc		
<b>Address:</b>	11 Elkins Street, Suite 310, Boston, MA 02127, United States		
<b>E.U.T:</b>	Mechanic Advisor Connection Key		
<b>Model Number:</b>	CK01		
<b>Power Supply:</b>	DC 12V		
<b>Test Voltage:</b>	DC 12V		
<b>Trade Name:</b>	-----	<b>Serial No.:</b>	-----
<b>Date of Receipt:</b>	December 24, 2015	<b>Date of Test:</b>	December 24, 2015~ January 10, 2016
<b>Test Specification:</b>	FCC Rules and Regulations Part 15 Subpart C:2015 ANSI C63.10:2013		
<b>Test Result:</b>	<p>The device described above is tested by EST Technology Co., Ltd.. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements.</p> <p style="text-align: right;">This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd. Date: January 11, 2016</p>		
Prepared by:	Tested by:	Approved by:	
			
Ada / Assistant	Tony.Tang/ Engineer	IcemanHu / Manager	
<b>Other Aspects:</b>	None.		
Abbreviations: OK/P=passed    fail/F=failed    n.a/N=not applicable    E.U.T=equipment under tested			
This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.			



# 1. GENERAL INFORMATION

## 1.1. Description of Device (EUT)

<b>Product Name</b>	:	Mechanic Advisor Connection Key
<b>Model Number</b>	:	CK01
<b>FCC ID</b>	:	2AG52CK01
<b>Operation frequency</b>	:	2402MHz~2480MHz
<b>Number of channel</b>	:	40
<b>Antenna</b>	:	Internal antenna, 0 dBi gain
<b>Modulation</b>	:	BLE (GFSK)
	:	
<b>Sample Type</b>	:	Prototype production

## 2. SUMMARY OF TEST

### 2.1. Summary of test result

Description of Test Item	Standard	Results
Power Line Conducted Emission	FCC Part 15: 15.207 ANSI C63.10:2013	N/A
Radiated Emission	FCC Part 15: 15.209 ANSI C63.10:2013 KDB 558074	PASS
Band Edge Compliance	FCC Part 15: 15.247 ANSI C63.10:2013 KDB 558074	PASS
6dB Bandwidth	FCC Part 15: 15.247 ANSI C63.10:2013 KDB 558074	PASS
Peak Output Power	FCC Part 15: 15.247 ANSI C63.10:2013 KDB 558074	PASS
Power Spectral Density	FCC Part 15: 15.247 ANSI C63.10:2013 KDB 558074	PASS
Antenna requirement	FCC Part 15: 15.203	PASS
Note: 15.207 only signals conducted onto the AC power lines are required to be measured. The equipment is only DC power supply, so “Power Line Conducted Emissions” is not required.		

## 2.2. Test Facilities

EMC Lab :      Certificated by CNAL, CHINA  
                          Registration No.: L5288  
                          Date of registration: Nov 23, 2015

                          Certificated by FCC, USA  
                          Registration No.: 989591  
                          Date of registration: November 20, 2013

                          Certificated by Industry Canada  
                          Registration No.: 9405A-1  
                          Date of registration: December 30, 2015

                          Certificated by VCCI, Japan  
                          Registration No.: R-3663 & C-4103  
                          Date of registration: July 25, 2011

                          Certificated by TUV Rheinland, Germany  
                          Registration No.: UA 50195514 0001  
                          Date of registration: January 07, 2011

                          Certificated by TUV/PS, Shenzhen  
                          Registration No.: SCN1017  
                          Date of registration: January 27, 2011

                          Certificated by Intertek ETL SEMKO  
                          Registration No.: 2011-RTL-L1-18  
                          Date of registration: April 28, 2011

                          Certificated by Siemic, Inc.  
                          Registration No.: SLCN021  
                          Date of registration: November 8, 2011

                          Certificated by Nemko, Hong Kong  
                          Registration No.: 175193  
                          Date of registration: May 4, 2011

Name of Firm :      EST Technology Co., Ltd.

Site Location :      San Tun Management Zone, Houjie Town, Dongguan,  
Guangdong, China

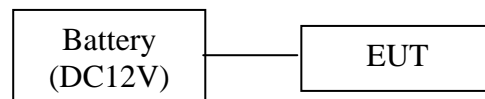
## 2.3. Assistant equipment used for test

### 2.3.1. PC

Manufacturer : DELL  
 M/N : Latitude E6420  
 Adapter : M/N: DA90PM111  
 Input: AC 100-240V~50/60Hz 1.5A  
 Output: DC 19.5V/4.62A

## 2.4. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 meter high above ground. EUT was set into BT test mode by Bluesuite software before test.



(EUT: Mechanic Advisor Connection Key)

## 2.5. Test mode

A special test software was used to control EUT work in Continuous TX mode (100% duty cycle), and select test channel, wireless mode and data rate.

Mode	Channel	Frequency
BT 4.0-BLE GFSK	Low	2402MHz
	Middle	2440MHz
	High	2480MHz

## 2.6. Channel List for Bluetooth

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2402	2	2404
3	2406	4	2408
5	2410	6	2412
7	2414	8	2416
9	2418	10	2420
11	2422	12	2424
13	2426	14	2428
15	2430	16	2432
17	2434	18	2436
19	2438	20	2440
21	2442	22	2444
23	2446	24	2448
25	2450	26	2452
27	2454	28	2456
29	2458	30	2460
31	2462	32	2464
33	2466	34	2468
35	2470	36	2472
37	2474	38	2476
39	2478	40	2480



## 2.7. Test Equipment

### 2.7.1. For conducted emission test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	832354	June,28,15	1 Year
Artificial Mains Networ	Rohde & Schwarz	ENV216	101260	June,28,15	1 Year
Pulse Limiter	Rohde & Schwarz	ESCK01-Z2	101100	June,28,15	1 Year

### 2.7.2. For radiated emission test(30-1000MHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESVS10	100004	June,28,15	1 Year
Spectrum Analyzer	Agilent	E4411B	MY50140697	June,28,15	1 Year
Bilog Antenna	Teseq	CBL 6111D	27090	June,28,15	1 Year
Signal Amplifier	Agilent	310N	187037	June,28,15	1 Year
RF Cable	Hubersuhner	W10.02	534123	June,28,15	1 Year

### 2.7.3. For radiated emission test(above 1GHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Horn Antenna	SCHWARZB ECK	BBHA 9120 D	BBHA9120D1 002	June,28,15	1 Year
Signal Amplifier	SCHWARZB ECK	BBV9718	9718-212	June,28,15	1 Year
Spectrum Analyzer	Agilent	E4408B	MY44211139	June,28,15	1 Year
RF Cable	Hubersuhner	RG 214/U	513423	June,28,15	1 Year
Spectrum Analyzer	Rohde &Schwarz	FSV	103173	June,28,15	1 Year

## 4 RADIATED EMISSION TEST

### 4.1 Limit

#### 4.1.1 15.209 limits

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

Remark : (1) Emission level  $\text{dB}\mu\text{V} = 20 \log$  Emission level  $\mu\text{V/m}$

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

#### 4.1.2 15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
<sup>1</sup> 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	( <sup>2</sup> )

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

## 4.2. Test Procedure

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna are set on test.

The bandwidth of the EMI test receiver is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 3MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

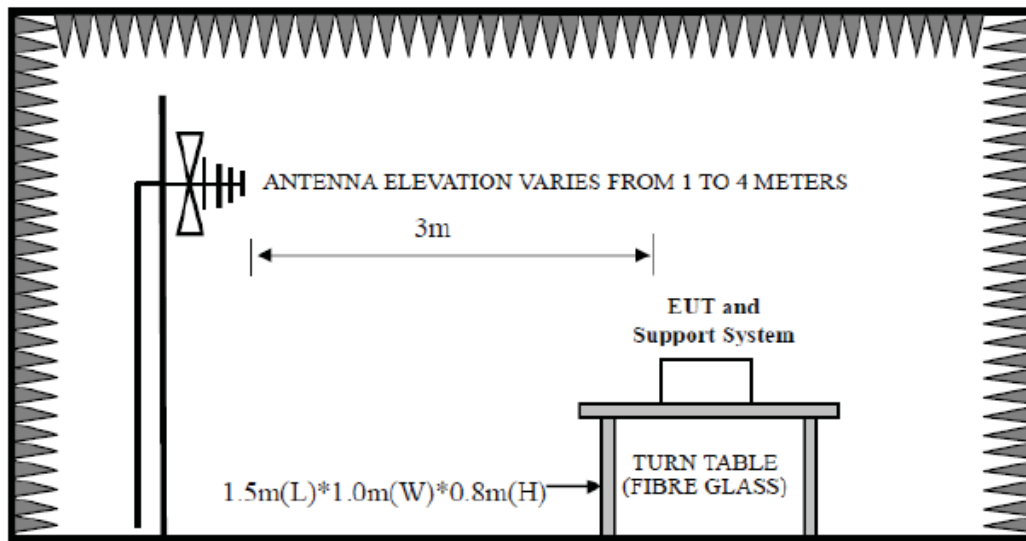
PEAK detector, 1MHz/1MHz for PAEK measurement,

PEAK detector, 1MHz/10Hz for Average measurement

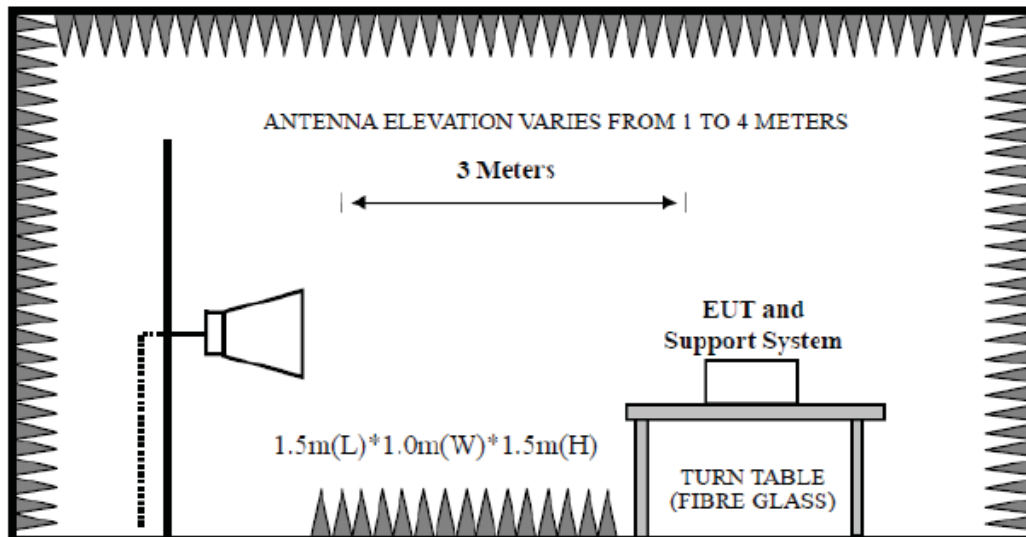
The frequency range from 30MHz to 10<sup>th</sup> harmonic (25GHz) are checked. and no any emissions were found from 18GHz to 25 GHz, So the radiated emissions from 18GHz to 25GHz were not record.

### 4.3 Block Diagram of Test setup

30~1000MHz



Above 1GHz



### 4.4 Test Result

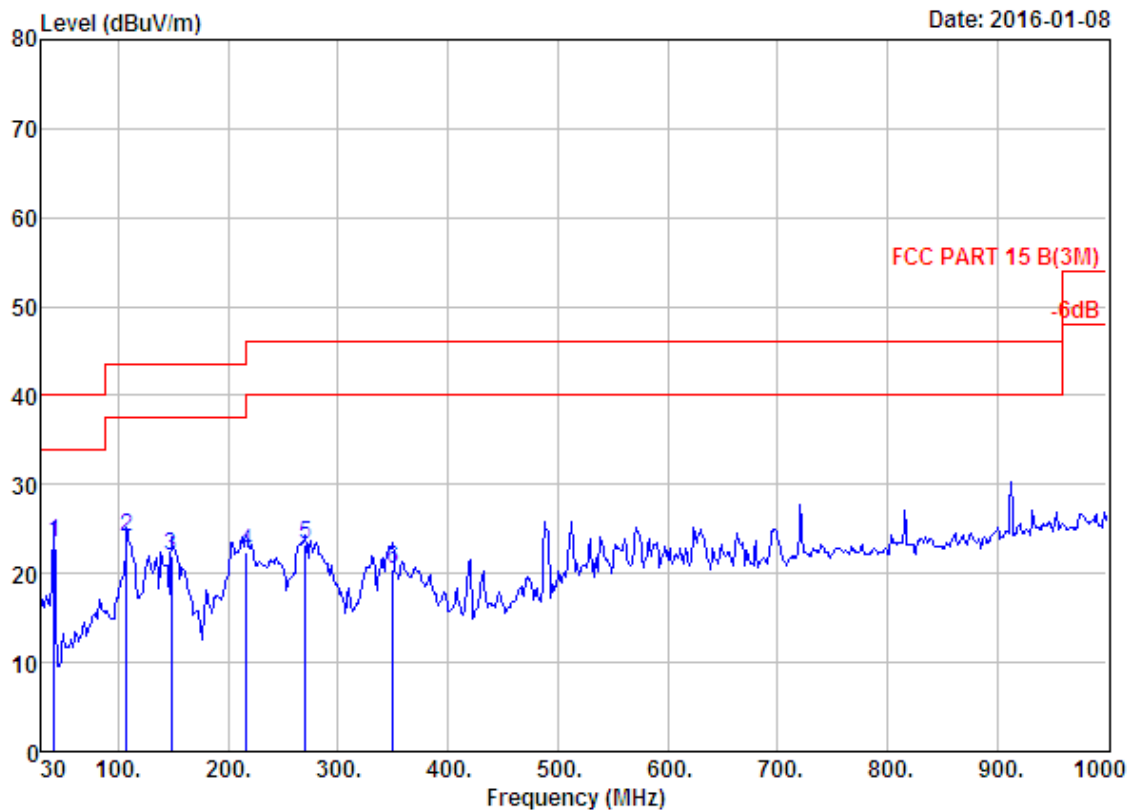
**PASS.**

All the emissions from 30MHz to 25 GHz were comply with 15.209 limits.

- Note: 1、 For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
- 2、 The frequency 2402MHz 、 2440MHz and 2480 MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.

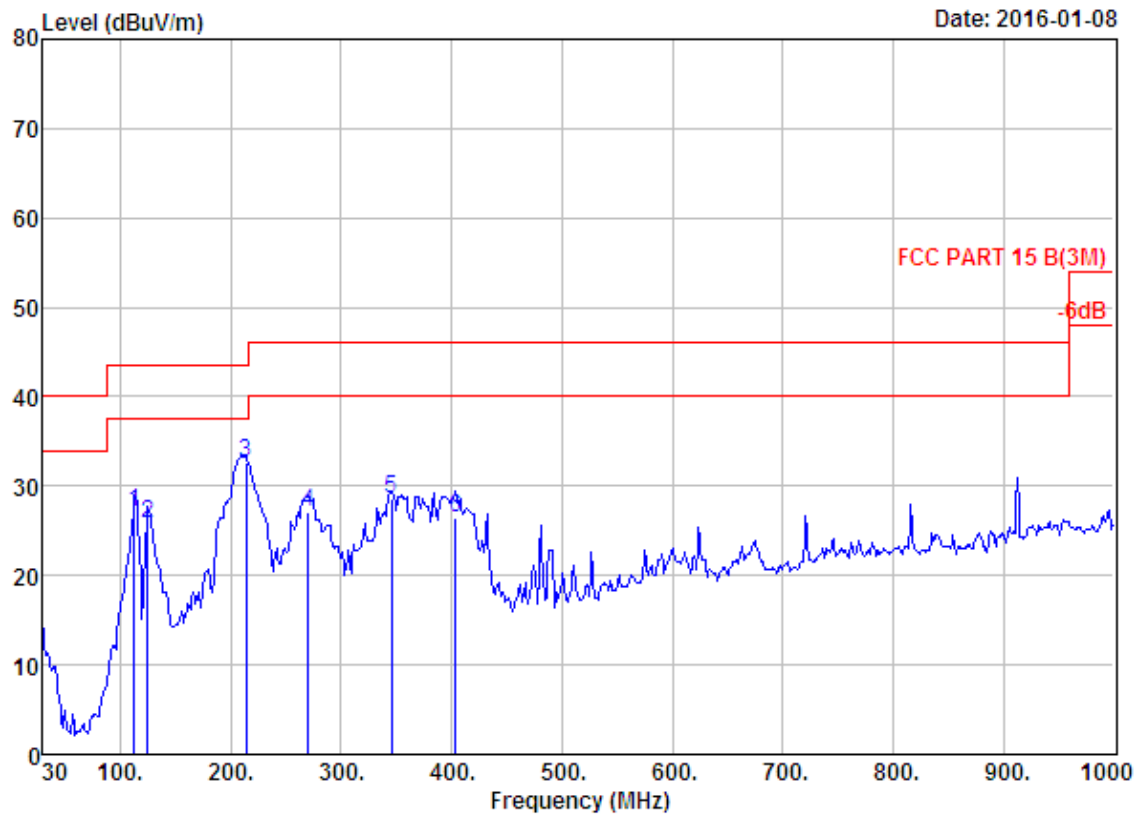
## 4.5 Test Data

30-1000 MHz



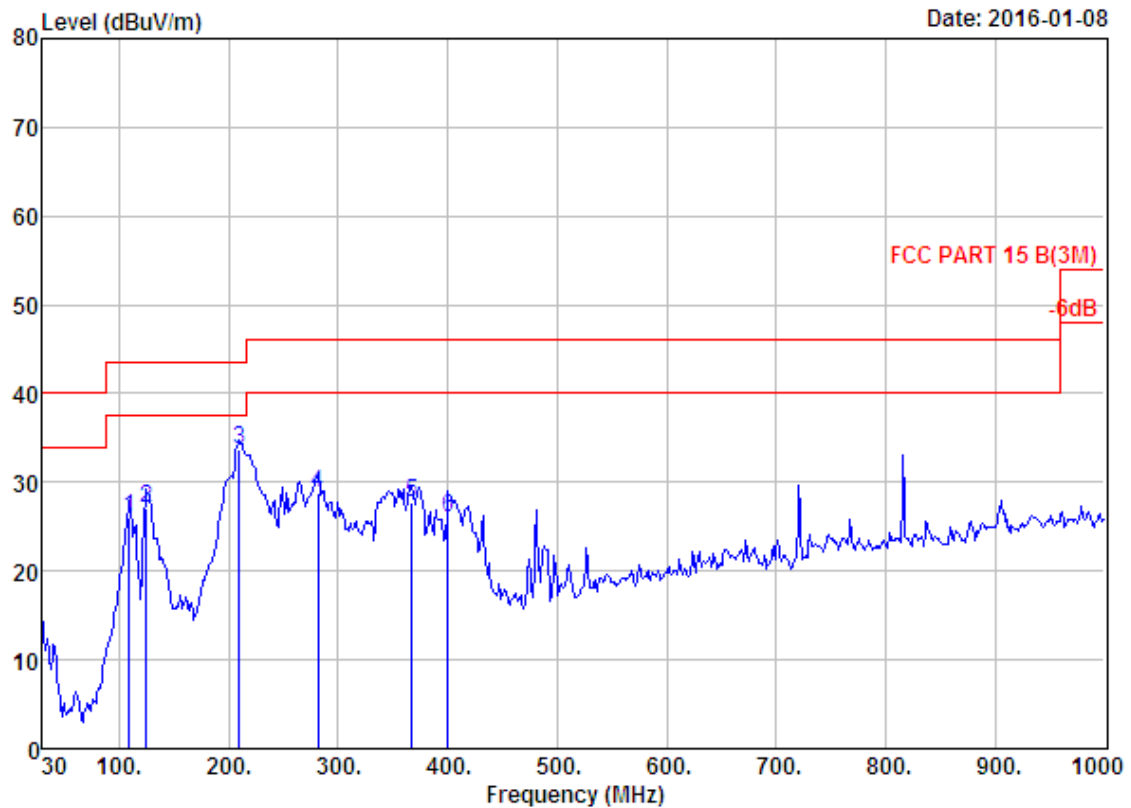
Site no. : 966 1# chamber      Data no. : 17  
 Dis. / Ant. : 3m 27137      Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : Mechanic Advisor Connection Key  
 Power : DC 12V  
 M/N : CK01  
 Test Mode : GFSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	41.64	11.75	0.85	10.90	23.50	40.00	16.50	QP
2	107.60	10.24	1.39	12.57	24.20	43.50	19.30	QP
3	148.34	11.00	1.69	9.37	22.06	43.50	21.44	QP
4	216.24	8.80	1.95	11.57	22.32	46.00	23.68	QP
5	270.56	12.53	2.27	8.47	23.27	46.00	22.73	QP
6	350.10	14.47	2.51	3.51	20.49	46.00	25.51	QP



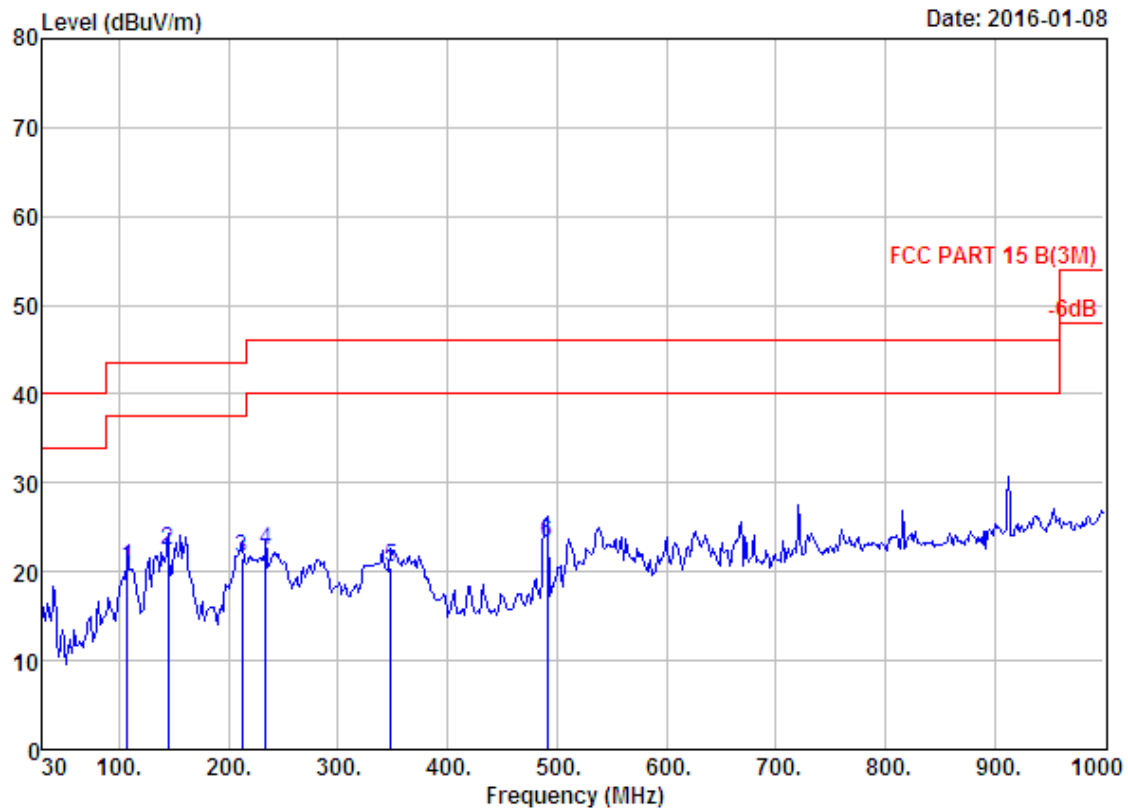
Site no. : 966 1# chamber      Data no. : 18  
 Dis. / Ant. : 3m 27137      Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : Mechanic Advisor Connection Key  
 Power : DC 12V  
 M/N : CK01  
 Test Mode : GFSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	112.45	10.68	1.43	14.92	27.03	43.50	16.47	QP
2	125.06	11.35	1.52	12.91	25.78	43.50	17.72	QP
3	214.30	8.65	1.96	21.96	32.57	43.50	10.93	QP
4	270.56	12.53	2.27	12.20	27.00	46.00	19.00	QP
5	345.25	14.32	2.54	11.65	28.51	46.00	17.49	QP
6	403.45	16.14	2.69	7.57	26.40	46.00	19.60	QP



Site no. : 966 1# chamber      Data no. : 19  
 Dis. / Ant. : 3m 27137      Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : Mechanic Advisor Connection Key  
 Power : DC 12V  
 M/N : CK01  
 Test Mode : GFSK TX 2440MHz

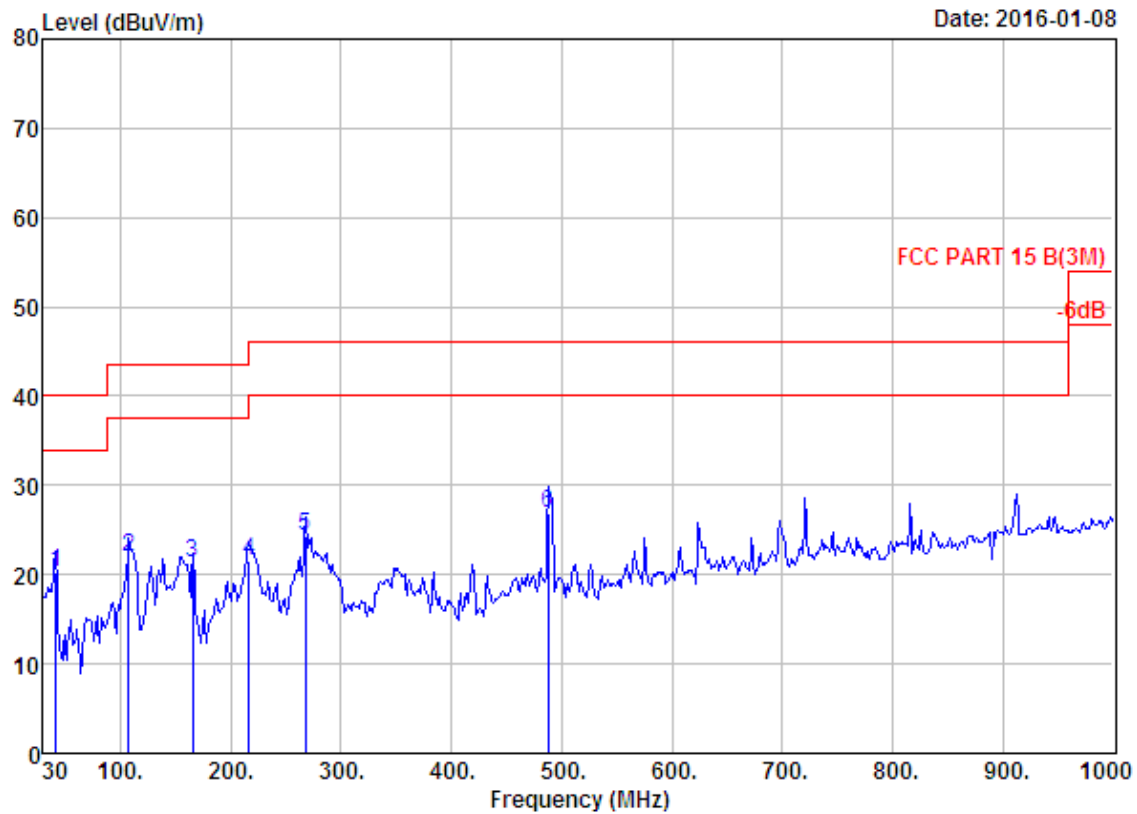
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	109.54	10.44	1.40	14.13	25.97	43.50	17.53	QP
2	125.06	11.35	1.52	14.31	27.18	43.50	16.32	QP
3	209.45	8.37	1.91	23.51	33.79	43.50	9.71	QP
4	281.23	12.41	2.32	14.11	28.84	46.00	17.16	QP
5	367.56	14.76	2.68	10.31	27.75	46.00	18.25	QP
6	400.54	16.07	2.66	7.24	25.97	46.00	20.03	QP



Site no. : 966 1# chamber      Data no. : 20  
 Dis. / Ant. : 3m 27137      Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : Mechanic Advisor Connection Key  
 Power : DC 12V  
 M/N : CK01  
 Test Mode : GFSK TX 2440MHz

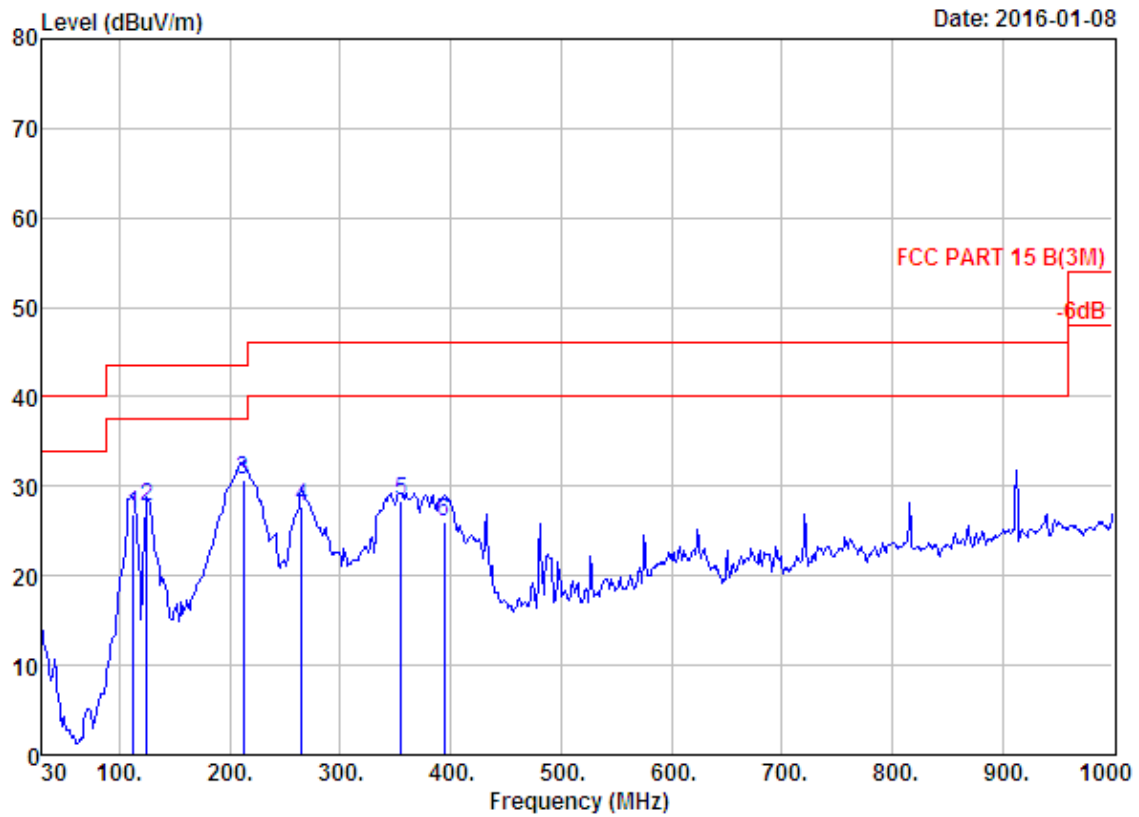
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	107.60	10.24	1.39	8.88	20.51	43.50	22.99	QP
2	144.46	11.26	1.54	9.57	22.37	43.50	21.13	QP
3	212.36	8.56	1.91	11.01	21.48	43.50	22.02	QP
4	233.70	9.64	2.09	10.65	22.38	46.00	23.62	QP
5	348.16	14.41	2.53	3.60	20.54	46.00	25.46	QP
6	490.75	17.82	3.09	2.42	23.33	46.00	22.67	QP





Site no. : 966 1# chamber      Data no. : 21  
 Dis. / Ant. : 3m 27137      Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : Mechanic Advisor Connection Key  
 Power : DC 12V  
 M/N : CK01  
 Test Mode : GFSK TX 2480MHz

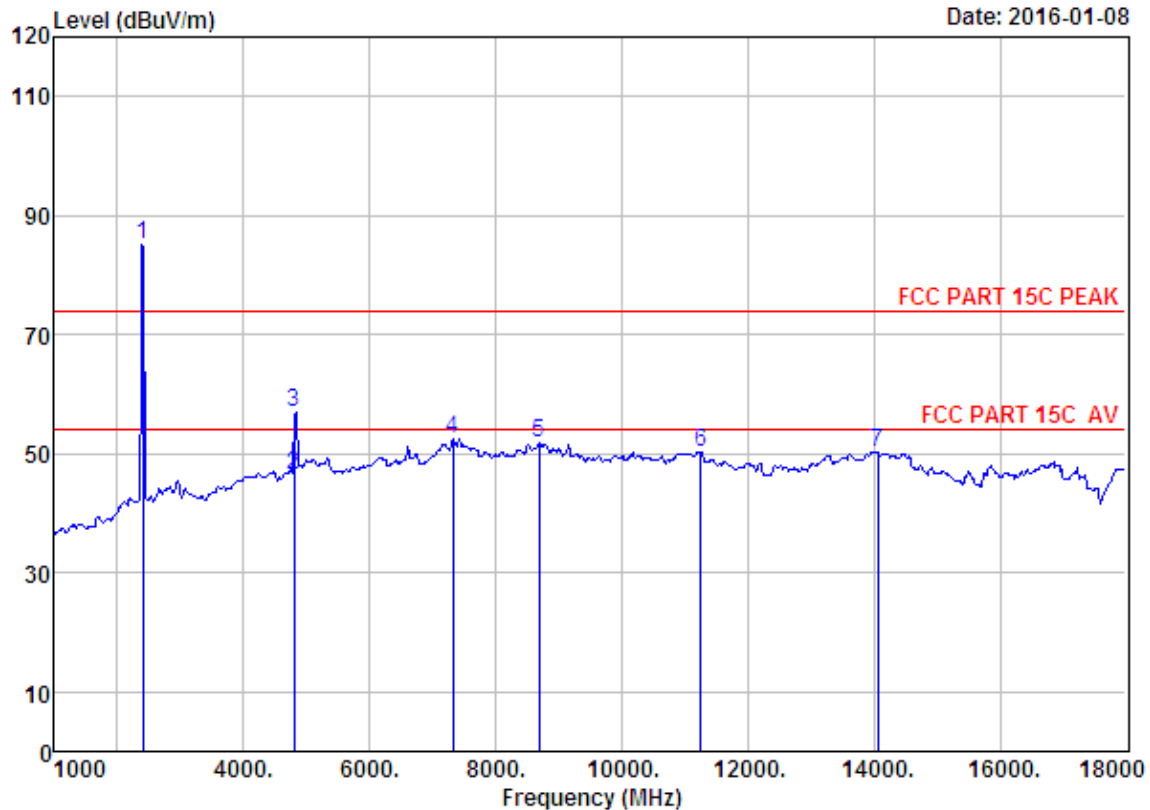
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	41.64	11.75	0.85	7.76	20.36	40.00	19.64	QP
2	107.60	10.24	1.39	10.44	22.07	43.50	21.43	QP
3	165.80	9.66	1.68	9.97	21.31	43.50	22.19	QP
4	216.24	8.80	1.95	10.89	21.64	46.00	24.36	QP
5	267.65	12.71	2.26	9.41	24.38	46.00	21.62	QP
6	487.84	17.74	3.15	5.89	26.78	46.00	19.22	QP



Site no. : 966 1# chamber                      Data no. : 22  
 Dis. / Ant. : 3m 27137                      Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : Mechanic Advisor Connection Key  
 Power : DC 12V  
 M/N : CK01  
 Test Mode : GFSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	112.45	10.68	1.43	14.80	26.91	43.50	16.59	QP
2	125.06	11.35	1.52	14.92	27.79	43.50	15.71	QP
3	212.36	8.56	1.91	20.33	30.80	43.50	12.70	QP
4	264.74	12.94	2.28	12.61	27.83	46.00	18.17	QP
5	354.95	14.46	2.57	11.30	28.33	46.00	17.67	QP
6	393.75	15.78	2.58	7.72	26.08	46.00	19.92	QP

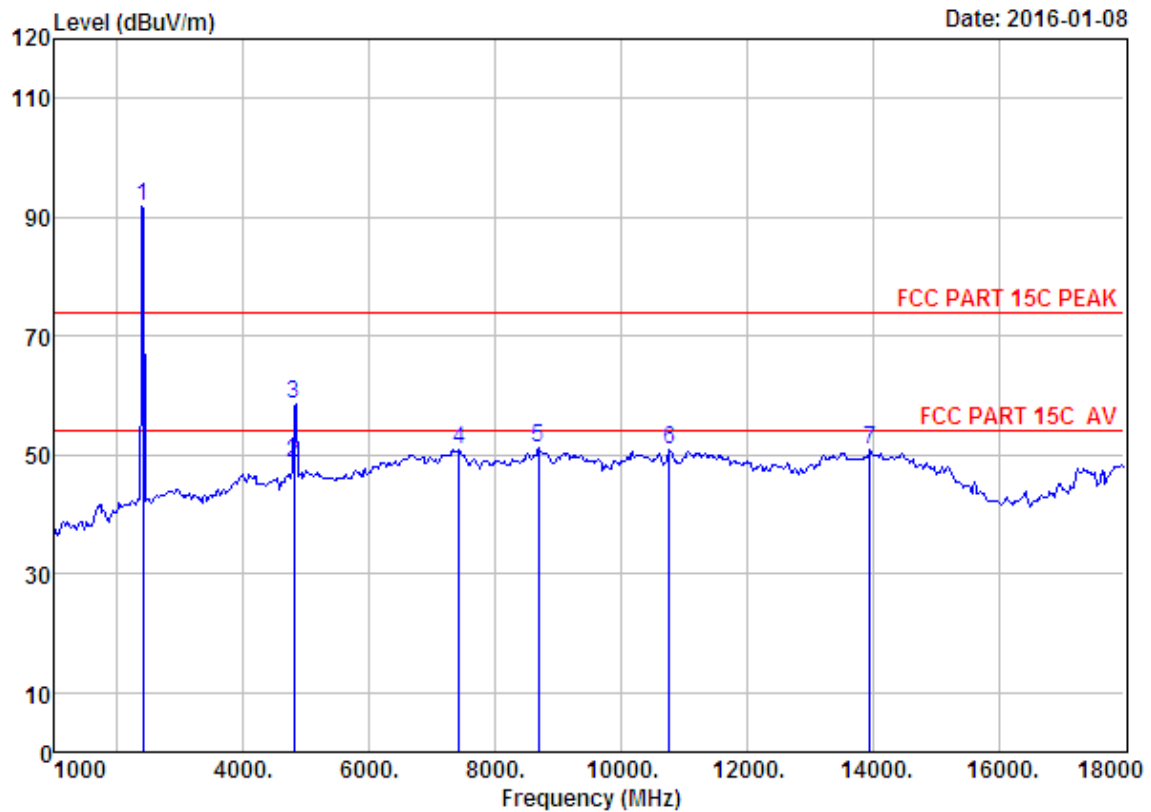
1000-18000 MHz



Site no. : 1# 966 chamber                      Data no. : 1  
 Dis. / Ant. : 3m ANT 1-18G                      Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : Mechanic Advisor Connection Key  
 Power : DC 12V  
 M/N : CK01  
 Test Mode : GFSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	27.61	6.62	34.64	85.68	85.27	74.00	-11.27	Peak
2	4804.00	31.25	11.77	35.64	38.94	46.32	54.00	7.68	Average
3	4804.00	31.25	11.77	35.64	49.64	57.02	74.00	16.98	Peak
4	7324.00	36.55	11.57	34.14	38.62	52.60	74.00	21.40	Peak
5	8684.00	37.32	11.45	33.66	36.76	51.87	74.00	22.13	Peak
6	11251.00	39.35	11.10	33.25	33.16	50.36	74.00	23.64	Peak
7	14056.00	41.51	10.90	33.06	30.89	50.24	74.00	23.76	Peak

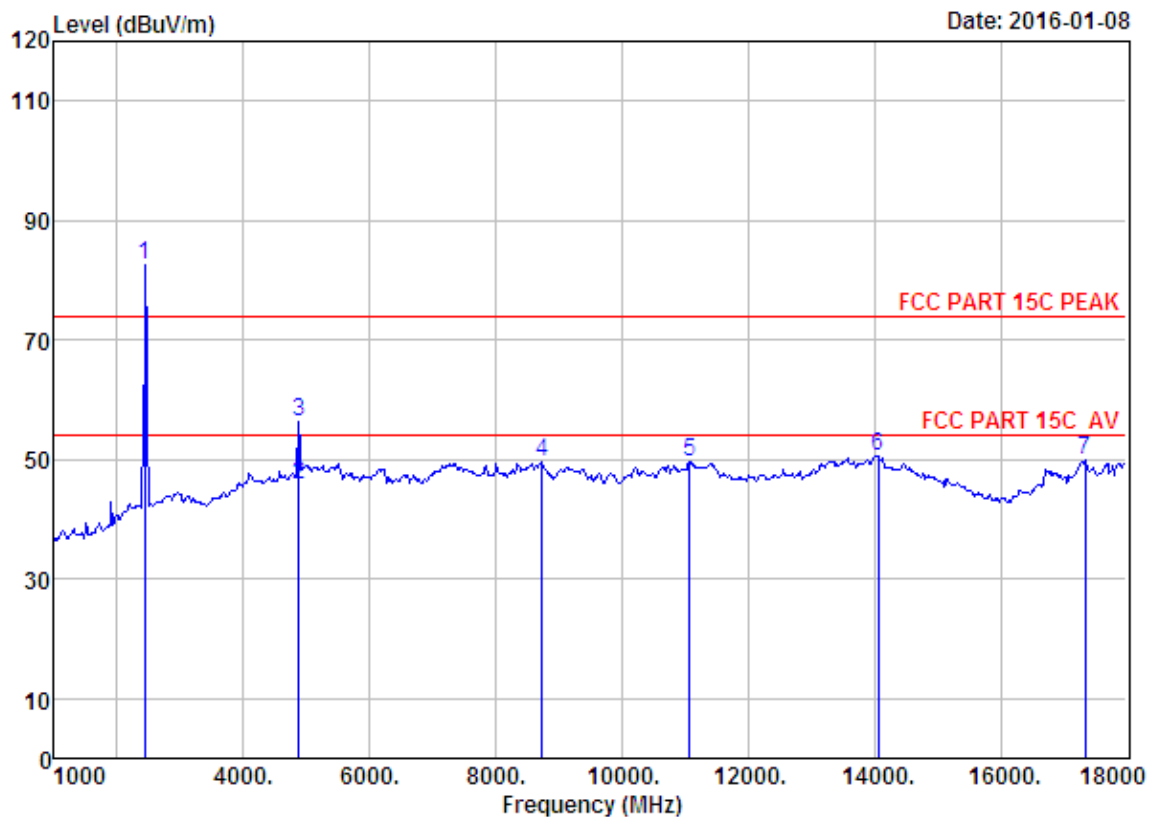
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 2  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : Mechanic Advisor Connection Key  
 Power : DC 12V  
 M/N : CK01  
 Test Mode : GFSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	27.61	6.62	34.64	92.41	92.00	74.00	-18.00	Peak
2	4804.00	31.25	11.77	35.64	41.28	48.66	54.00	5.34	Average
3	4804.00	31.25	11.77	35.64	51.03	58.41	74.00	15.59	Peak
4	7426.00	36.56	11.60	34.22	36.99	50.93	74.00	23.07	Peak
5	8684.00	37.32	11.45	33.66	36.09	51.20	74.00	22.80	Peak
6	10775.00	39.28	11.30	34.02	34.37	50.93	74.00	23.07	Peak
7	13954.00	41.35	10.96	32.99	31.67	50.99	74.00	23.01	Peak

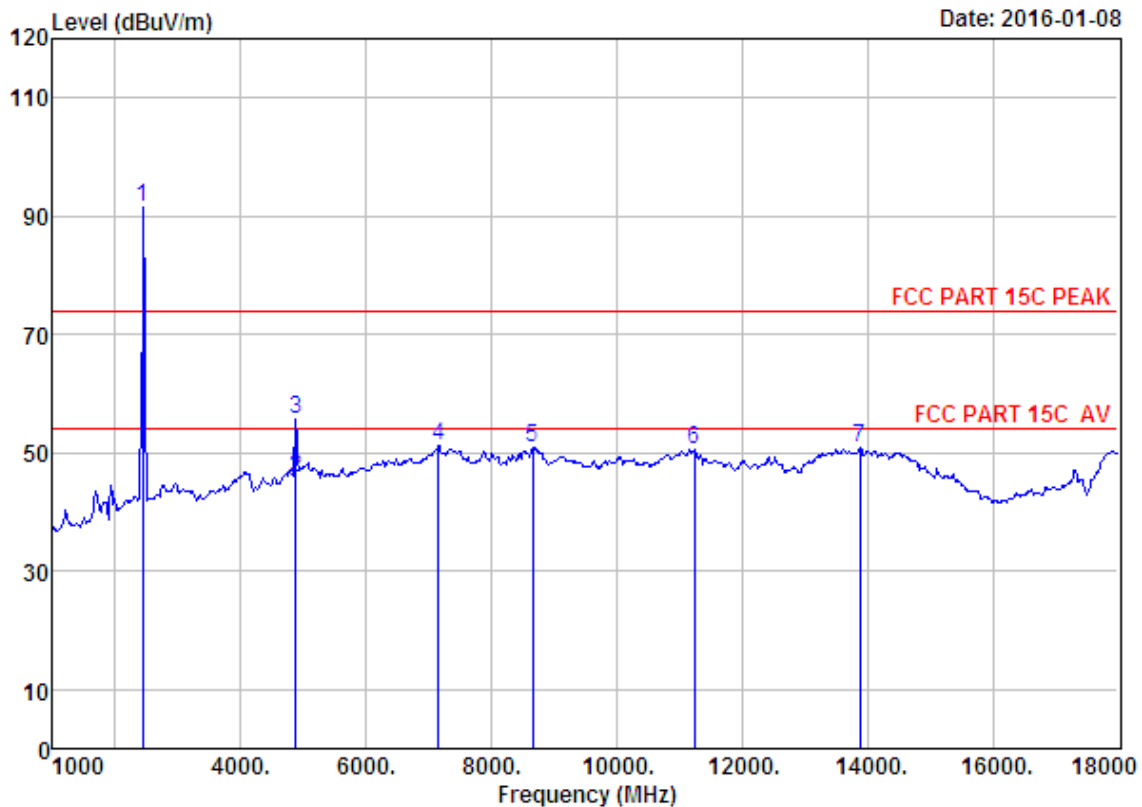
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber                      Data no. : 5  
 Dis. / Ant. : 3m ANT 1-18G                      Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : Mechanic Advisor Connection Key  
 Power : DC 12V  
 M/N : CK01  
 Test Mode : GFSK TX 2440MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2440.00	27.60	6.67	34.85	83.23	82.65	74.00	-8.65	Peak
2	4880.00	31.37	12.07	35.76	37.95	45.63	54.00	8.37	Average
3	4880.00	31.37	12.07	35.76	48.53	56.21	74.00	17.79	Peak
4	8735.00	37.40	11.45	33.76	34.41	49.50	74.00	24.50	Peak
5	11064.00	39.48	11.24	33.83	32.81	49.70	74.00	24.30	Peak
6	14056.00	41.51	10.90	33.06	31.17	50.52	74.00	23.48	Peak
7	17337.00	40.97	10.86	31.21	29.26	49.88	74.00	24.12	Peak

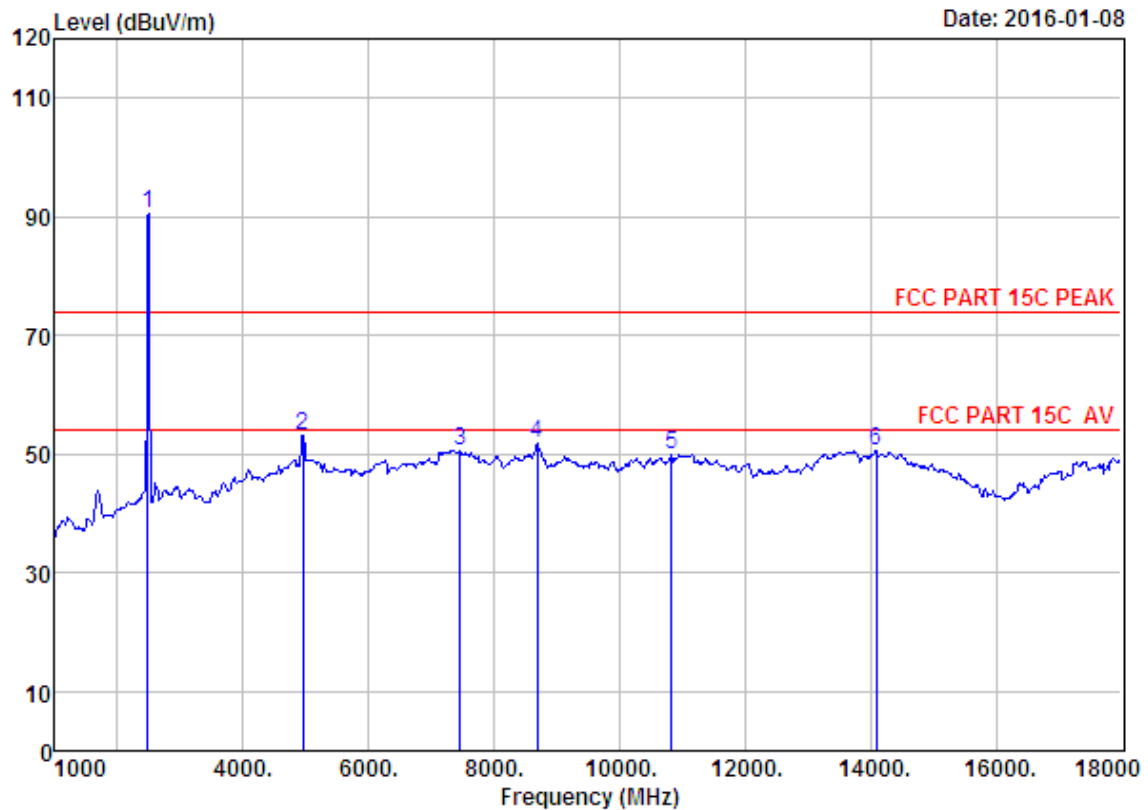
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber                      Data no. : 6  
 Dis. / Ant. : 3m ANT 1-18G                      Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : Mechanic Advisor Connection Key  
 Power : DC 12V  
 M/N : CK01  
 Test Mode : GFSK TX 2440MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2440.00	27.60	6.67	34.85	92.25	91.67	74.00	-17.67	Peak
2	4880.00	31.37	12.07	35.76	38.10	45.78	54.00	8.22	Average
3	4880.00	31.37	12.07	35.76	48.04	55.72	74.00	18.28	Peak
4	7154.00	36.25	11.52	33.88	37.42	51.31	74.00	22.69	Peak
5	8650.00	37.27	11.45	33.68	35.93	50.97	74.00	23.03	Peak
6	11234.00	39.37	11.12	33.25	33.47	50.71	74.00	23.29	Peak
7	13886.00	41.16	11.04	33.03	31.69	50.86	74.00	23.14	Peak

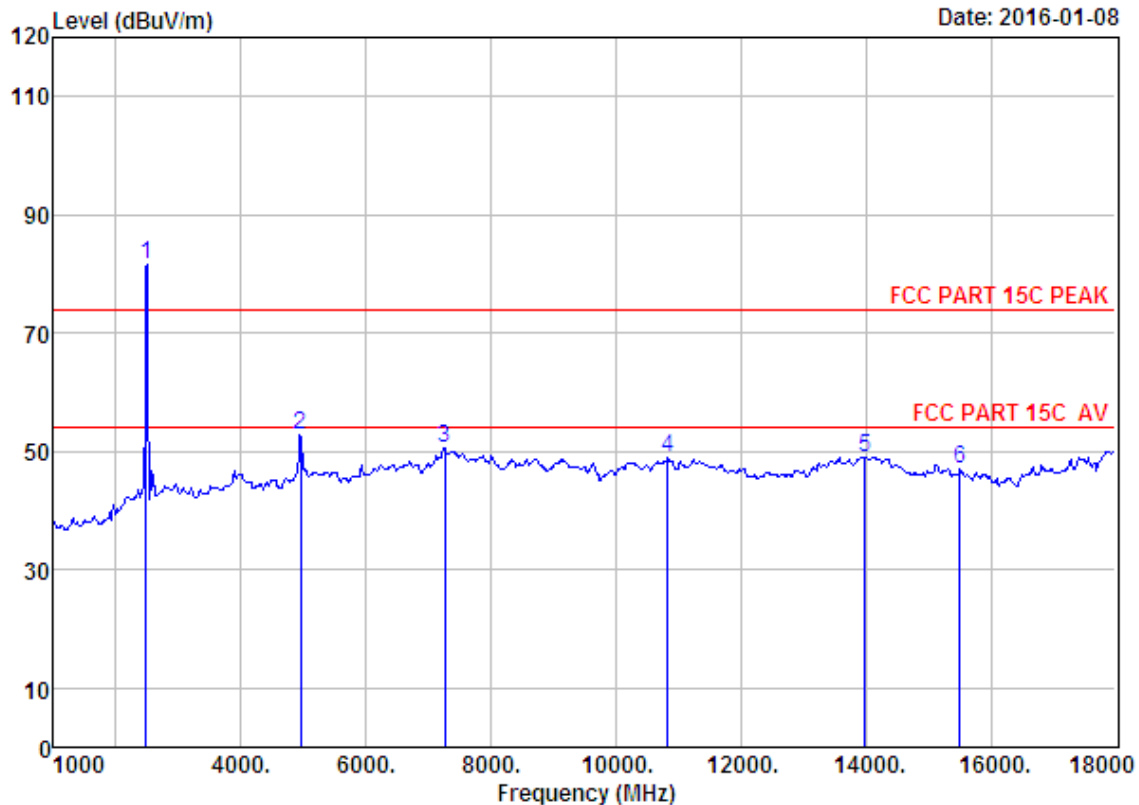
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber                      Data no. : 7  
 Dis. / Ant. : 3m ANT 1-18G                      Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : Mechanic Advisor Connection Key  
 Power : DC 12V  
 M/N : CK01  
 Test Mode : GFSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	27.58	6.71	35.11	91.43	90.61	74.00	-16.61	Peak
2	4960.00	31.49	12.44	36.01	45.28	53.20	74.00	20.80	Peak
3	7460.00	36.52	11.61	34.21	36.78	50.70	74.00	23.30	Peak
4	8684.00	37.32	11.45	33.66	36.67	51.78	74.00	22.22	Peak
5	10826.00	39.33	11.30	34.00	33.23	49.86	74.00	24.14	Peak
6	14090.00	41.54	10.91	33.13	31.19	50.51	74.00	23.49	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



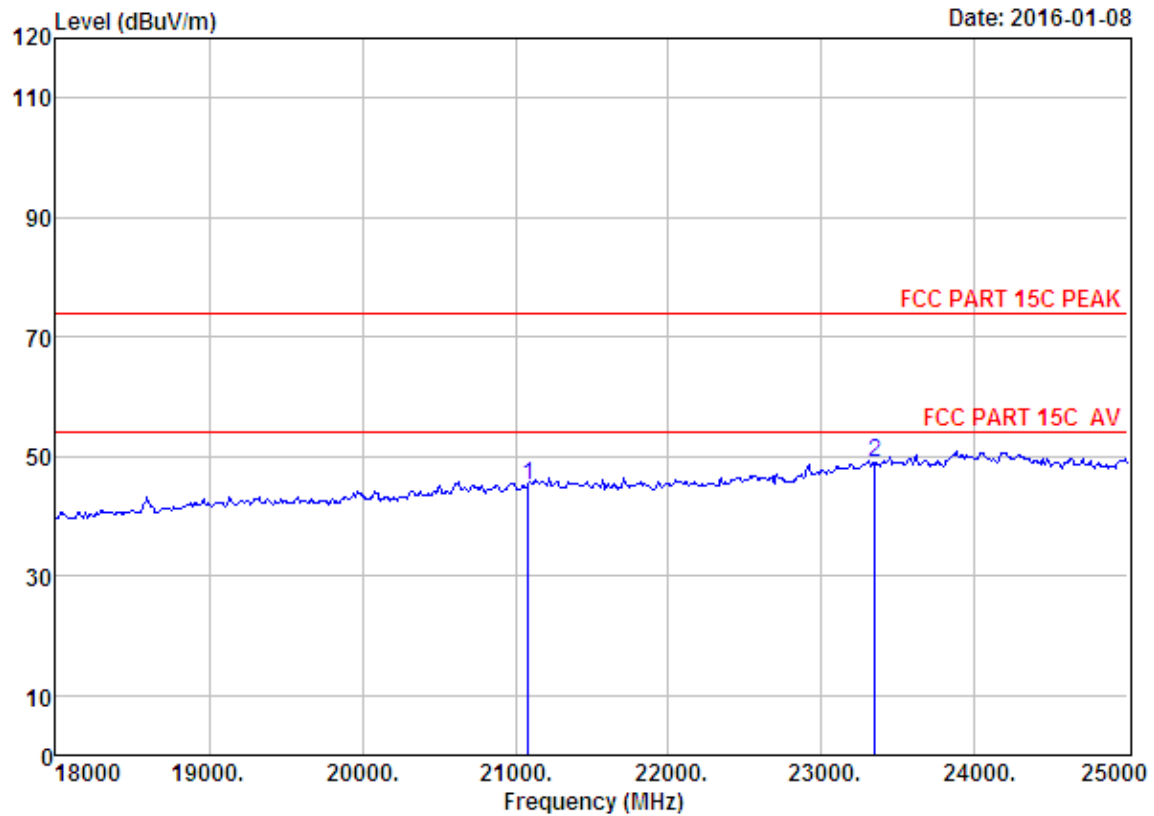
Site no. : 1# 966 chamber Data no. : 8  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : Mechanic Advisor Connection Key  
 Power : DC 12V  
 M/N : CK01  
 Test Mode : GFSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	27.58	6.71	35.11	82.32	81.50	74.00	-7.50	Peak
2	4960.00	31.49	12.44	36.01	44.81	52.73	74.00	21.27	Peak
3	7256.00	36.53	11.55	34.02	36.54	50.60	74.00	23.40	Peak
4	10826.00	39.33	11.30	34.00	32.27	48.90	74.00	25.10	Peak
5	13988.00	41.45	10.92	33.00	29.73	49.10	74.00	24.90	Peak
6	15501.00	37.86	11.10	32.92	31.04	47.08	74.00	26.92	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



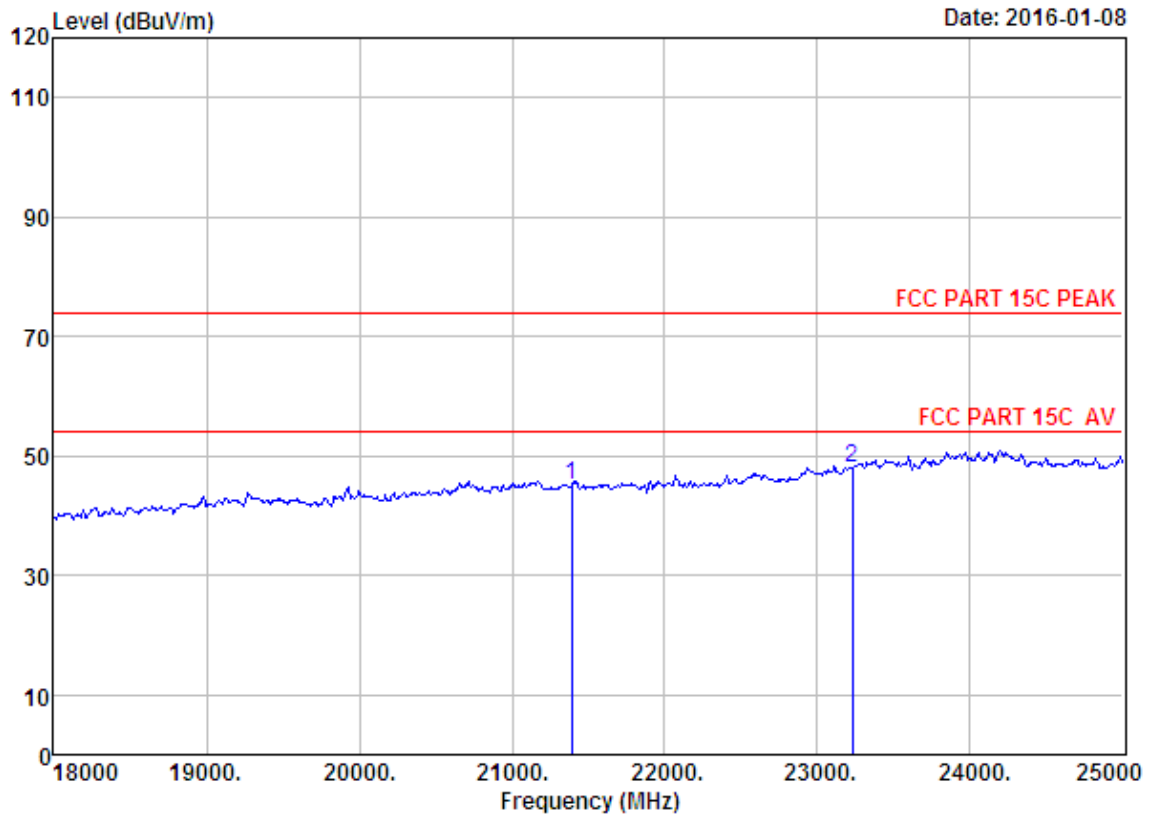
18000-25000 MHz



Site no. : 1# 966 chamber                      Data no. : 11  
 Dis. / Ant. : 3m ANT ABOVE 18G              Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : Mechanic Advisor Connection Key  
 Power : DC 12V  
 M/N : CK01  
 Test Mode : GFSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	21087.00	46.25	20.17	35.73	14.57	45.26	74.00	28.74	Peak
2	23348.00	45.67	21.46	33.48	15.24	48.89	74.00	25.11	Peak

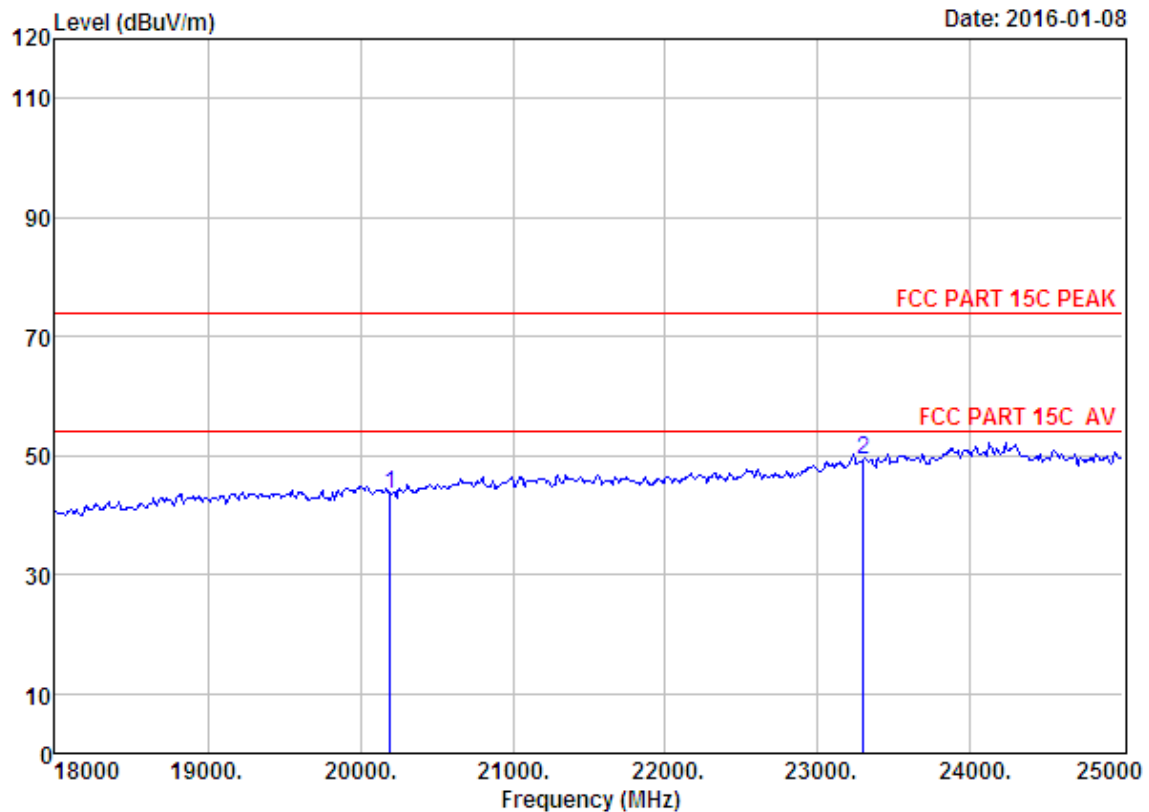
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber                      Data no. : 12  
 Dis. / Ant. : 3m ANT ABVOE 18G              Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : Mechanic Advisor Connection Key  
 Power : DC 12V  
 M/N : CK01  
 Test Mode : GFSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	21388.00	46.07	20.30	35.44	14.21	45.14	74.00	28.86	Peak
2	23229.00	45.65	21.35	33.61	14.72	48.11	74.00	25.89	Peak

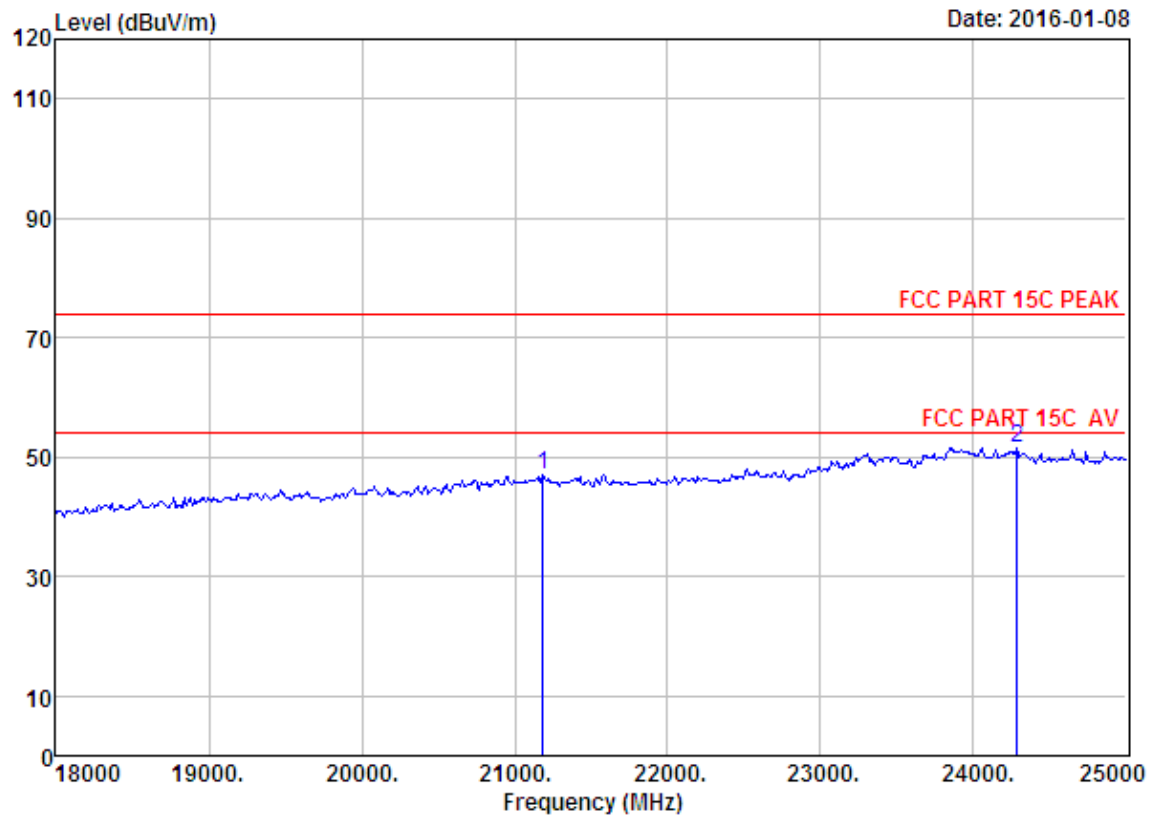
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber                      Data no. : 13  
 Dis. / Ant. : 3m ANT ABVOE 18G              Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : Mechanic Advisor Connection Key  
 Power : DC 12V  
 M/N : CK01  
 Test Mode : GFSK TX 2440MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	20198.00	46.06	19.77	36.52	14.35	43.66	74.00	30.34	Peak
2	23299.00	45.66	21.42	33.53	15.81	49.36	74.00	24.64	Peak

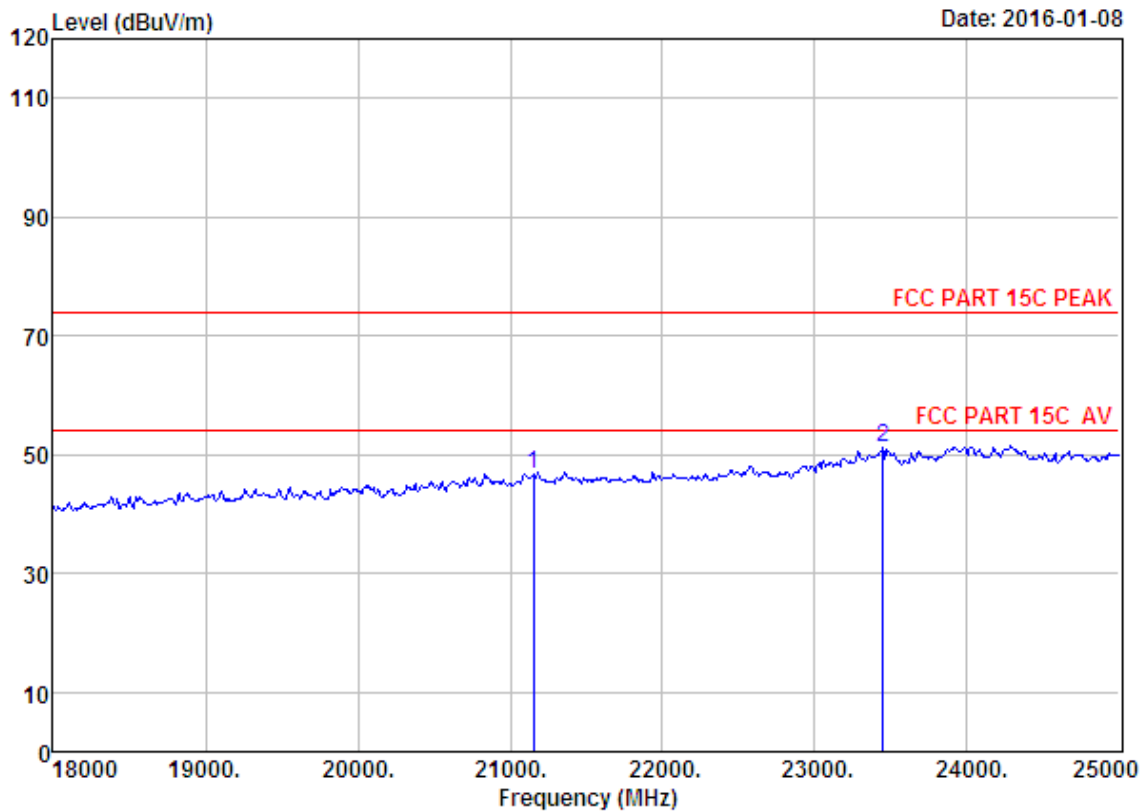
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber                      Data no. : 14  
 Dis. / Ant. : 3m ANT ABOVE 18G              Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : Mechanic Advisor Connection Key  
 Power : DC 12V  
 M/N : CK01  
 Test Mode : GFSK TX 2440MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	21185.00	46.18	20.21	35.64	16.44	47.19	74.00	26.81	Peak
2	24286.00	45.66	22.20	33.23	17.03	51.66	74.00	22.34	Peak

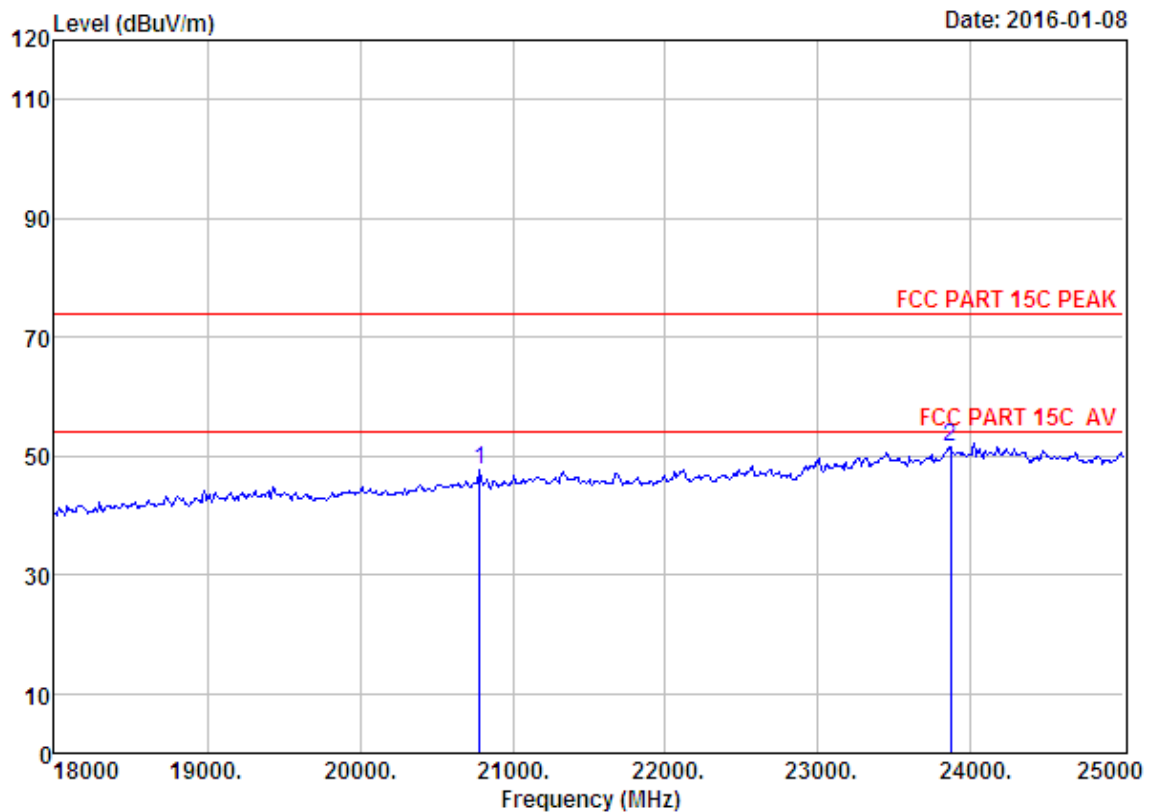
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber Data no. : 15  
 Dis. / Ant. : 3m ANT ABOVE 18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : Mechanic Advisor Connection Key  
 Power : DC 12V  
 M/N : CK01  
 Test Mode : GFSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	21150.00	46.21	20.20	35.67	15.91	46.65	74.00	27.35	Peak
2	23446.00	45.69	21.55	33.38	17.36	51.22	74.00	22.78	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber      Data no. : 16  
 Dis. / Ant. : 3m ANT ABOVE 18G      Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : Mechanic Advisor Connection Key  
 Power : DC 12V  
 M/N : CK01  
 Test Mode : GFSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	20786.00	46.18	20.04	36.00	17.38	47.60	74.00	26.40	Peak
2	23866.00	45.63	21.93	32.93	16.88	51.51	74.00	22.49	Peak

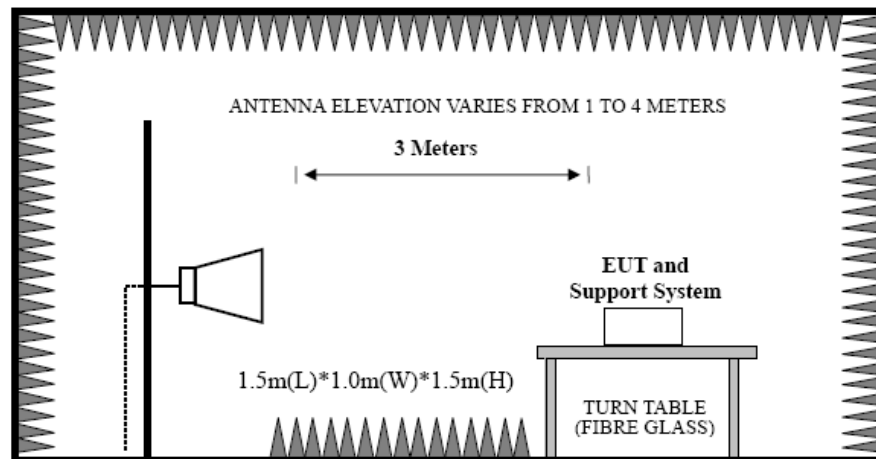
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

## 5 BAND EDGE COMPLIANCE TEST

### 5.1 Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits

### 5.2 Block Diagram of Test setup



### 5.3 Test Procedure

1. The EUT is placed on a turntable, which is 1.5m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:

Peak : RBW = 1MHz, VBW = 1MHz, Detector=PEAK detector, Sweep time = auto.

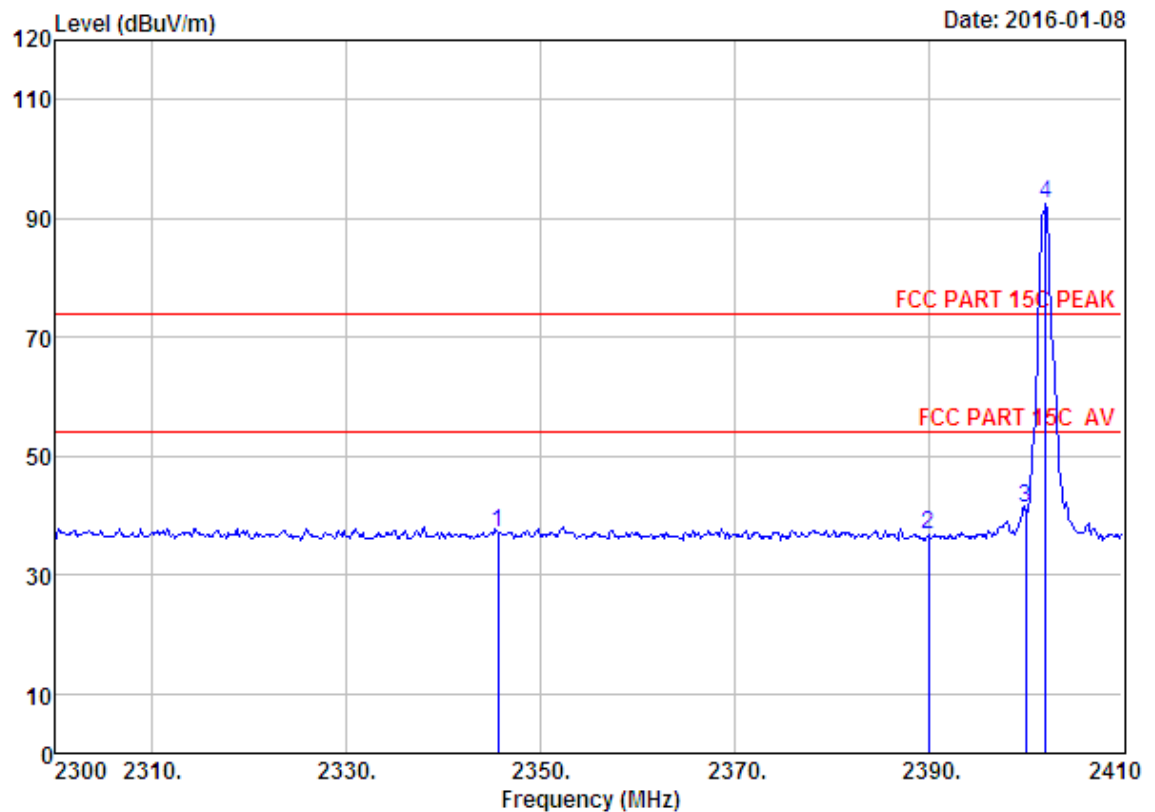
AV : RBW = 1MHz, VBW = 10Hz, Detector=PEAK detector, Sweep time = auto.

### 5.4 Test Result

Pass (The testing data was attached in the next pages.)

- Note:
- 1、 For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
  - 2、 The frequency 2402MHz and 2480 MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.

## 5.5 Test Data

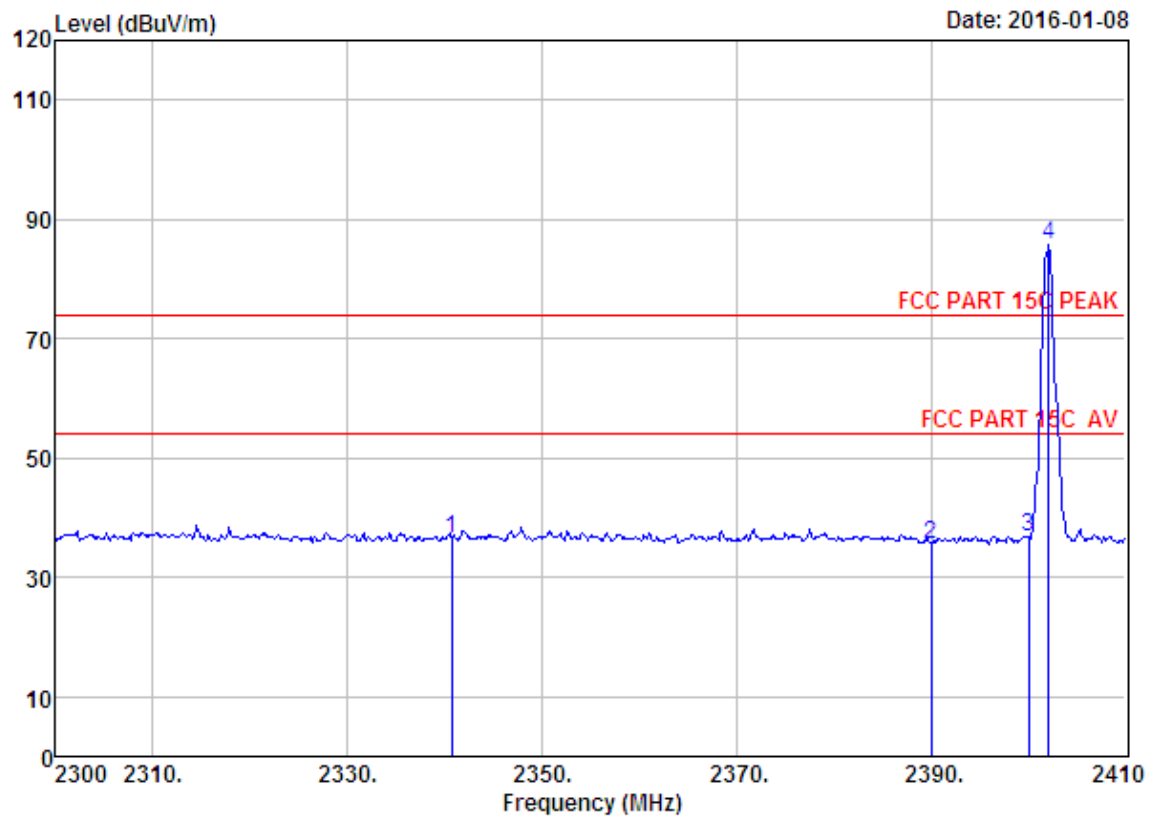


Site no. : 1# 966 chamber                      Data no. : 3  
 Dis. / Ant. : 3m ANT 1-18G                      Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : Mechanic Advisor Connection Key  
 Power : DC 12V  
 M/N : CK01  
 Test Mode : GFSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2345.65	27.70	6.56	34.57	37.51	37.20	74.00	36.80	Peak
2	2390.00	27.64	6.62	34.62	37.23	36.87	74.00	37.13	Peak
3	2400.00	27.61	6.62	34.64	41.53	41.12	74.00	32.88	Peak
4	2402.08	27.61	6.62	34.64	92.96	92.55	74.00	-18.55	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

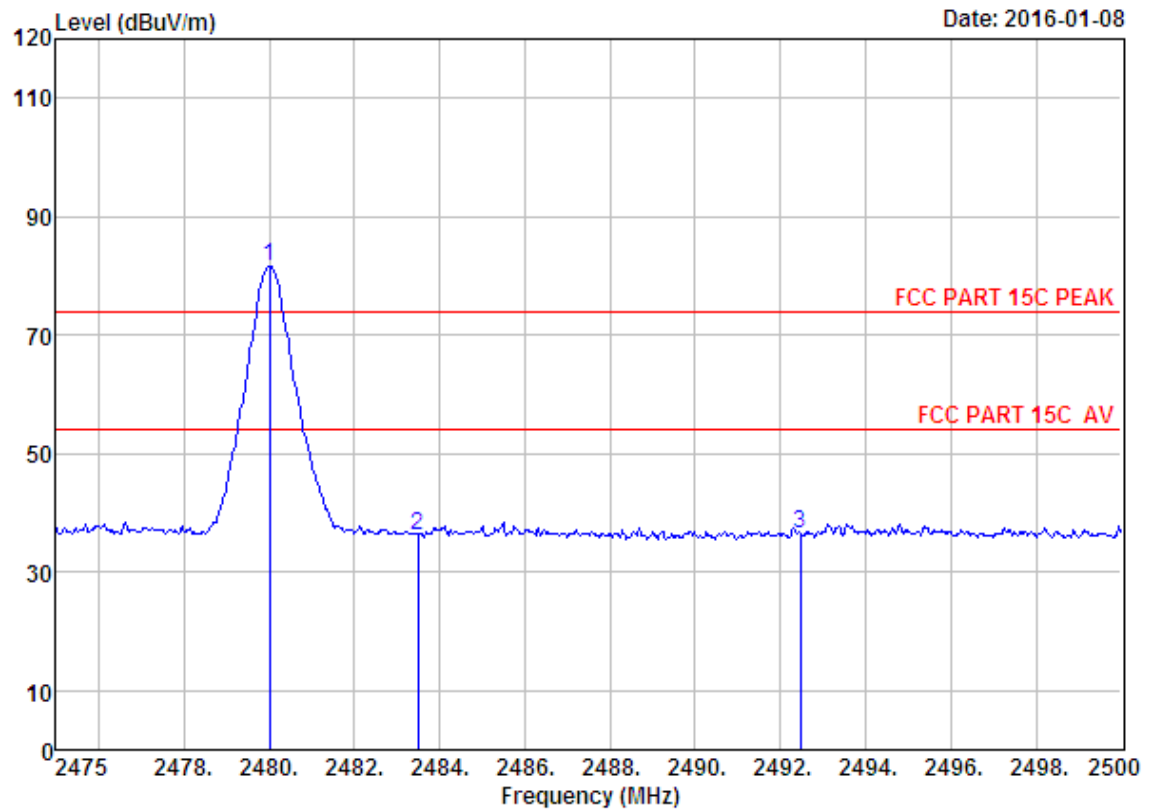




Site no. : 1# 966 chamber Data no. : 4  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6°;Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : Mechanic Advisor Connection Key  
 Power : DC 12V  
 M/N : CK01  
 Test Mode : GFSK TX 2402MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2340.70	27.70	6.56	34.59	36.96	36.63	74.00	37.37	Peak
2	2390.00	27.64	6.62	34.62	35.86	35.50	74.00	38.50	Peak
3	2400.00	27.61	6.62	34.64	37.34	36.93	74.00	37.07	Peak
4	2402.08	27.61	6.62	34.64	86.02	85.61	74.00	-11.61	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

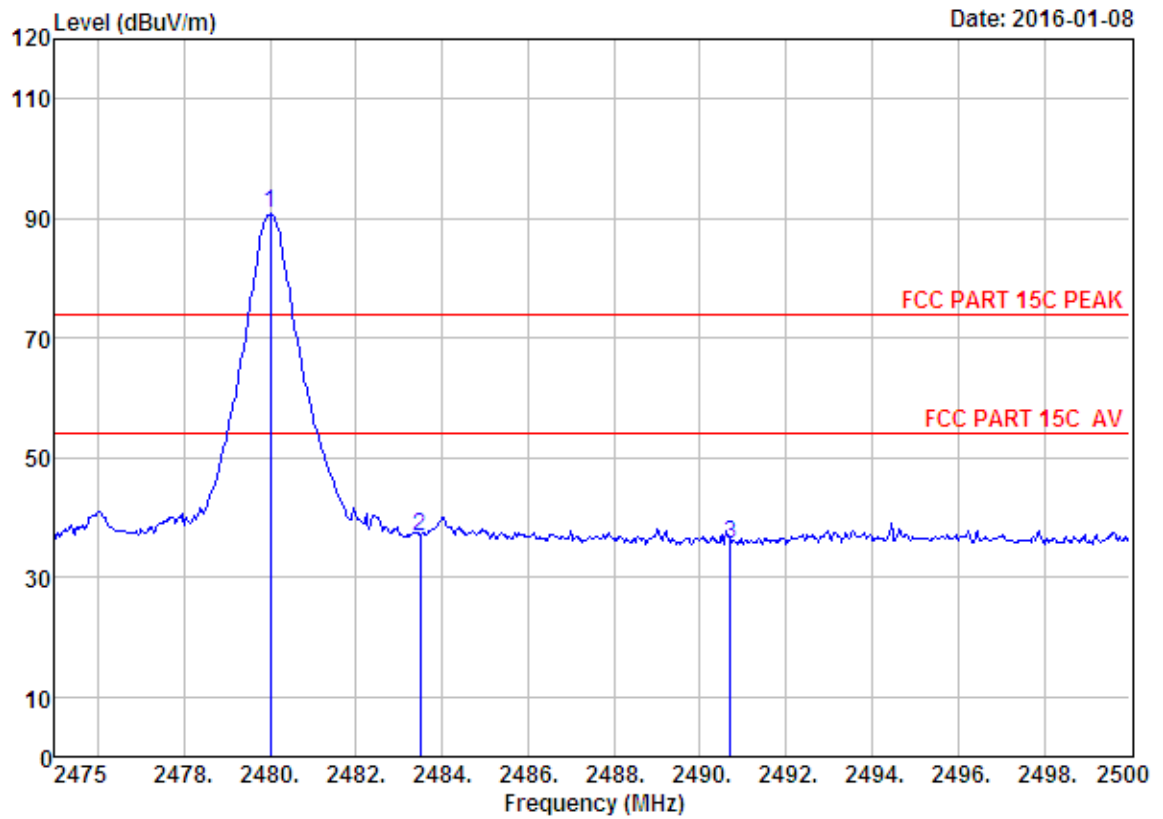


Site no. : 1# 966 chamber  
 Dis. / Ant. : 3m ANT 1-18G  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : Mechanic Advisor Connection Key  
 Power : DC 12V  
 M/N : CK01  
 Test Mode : GFSK TX 2480MHz

Data no. : 9  
Ant. pol. : HORIZONTAL

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	27.58	6.71	35.11	82.42	81.60	74.00	-7.60	Peak
2	2483.50	27.58	6.71	35.11	37.11	36.29	74.00	37.71	Peak
3	2492.48	27.58	6.73	35.24	37.41	36.48	74.00	37.52	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 chamber                      Data no. : 10  
 Dis. / Ant. : 3m ANT 1-18G                      Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : Mechanic Advisor Connection Key  
 Power : DC 12V  
 M/N : CK01  
 Test Mode : GFSK TX 2480MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	27.58	6.71	35.11	91.59	90.77	74.00	-16.77	Peak
2	2483.50	27.58	6.71	35.11	37.59	36.77	74.00	37.23	Peak
3	2490.70	27.58	6.73	35.24	36.41	35.48	74.00	38.52	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

## 6 6dB Bandwidth Test

### 6.1 Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

### 6.2 Test Procedure

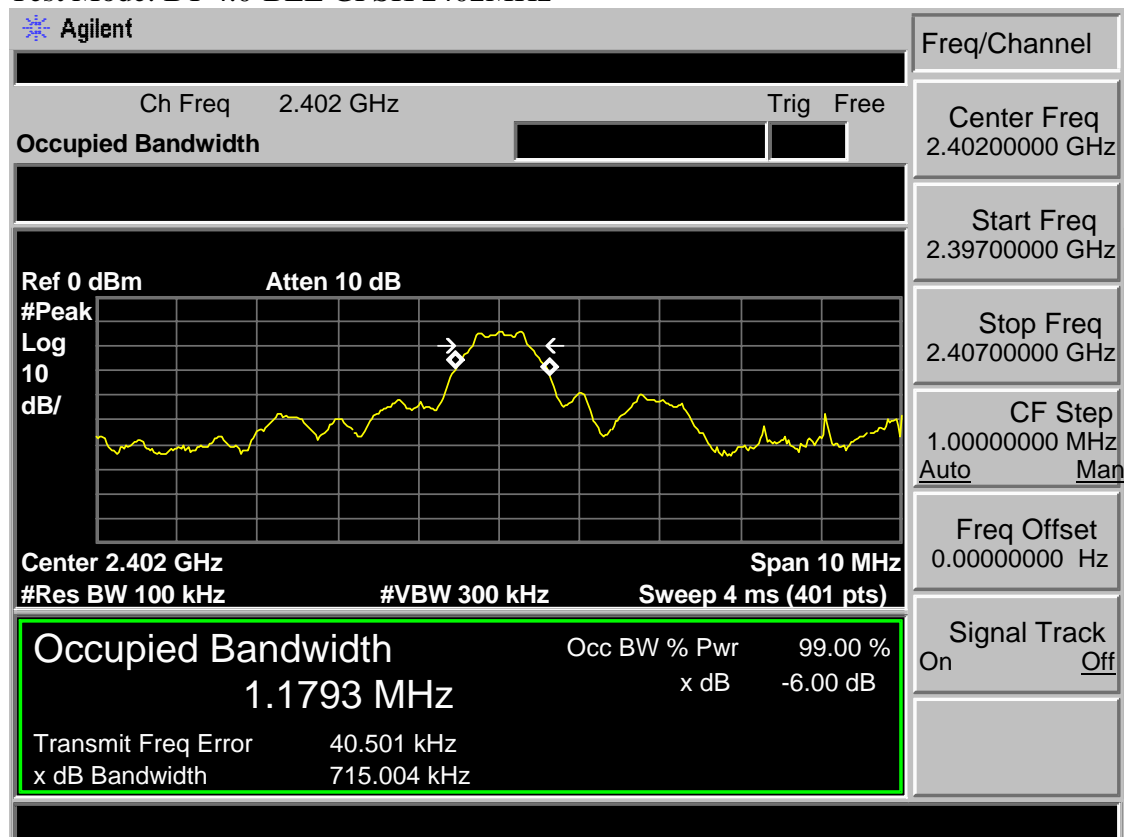
- 1, Connected the EUT's antenna port to spectrum analyzer device.
- 2, Follow the test procedure as described in KDB 558074
  - (1). Set resolution bandwidth (RBW) = 100 kHz.
  - (2). Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
  - (3). Detector = Peak.
  - (4). Trace mode = max hold.
  - (5). Sweep = auto couple.
  - (6). Allow the trace to stabilize.
  - (7). Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

### 6.3 Test Result

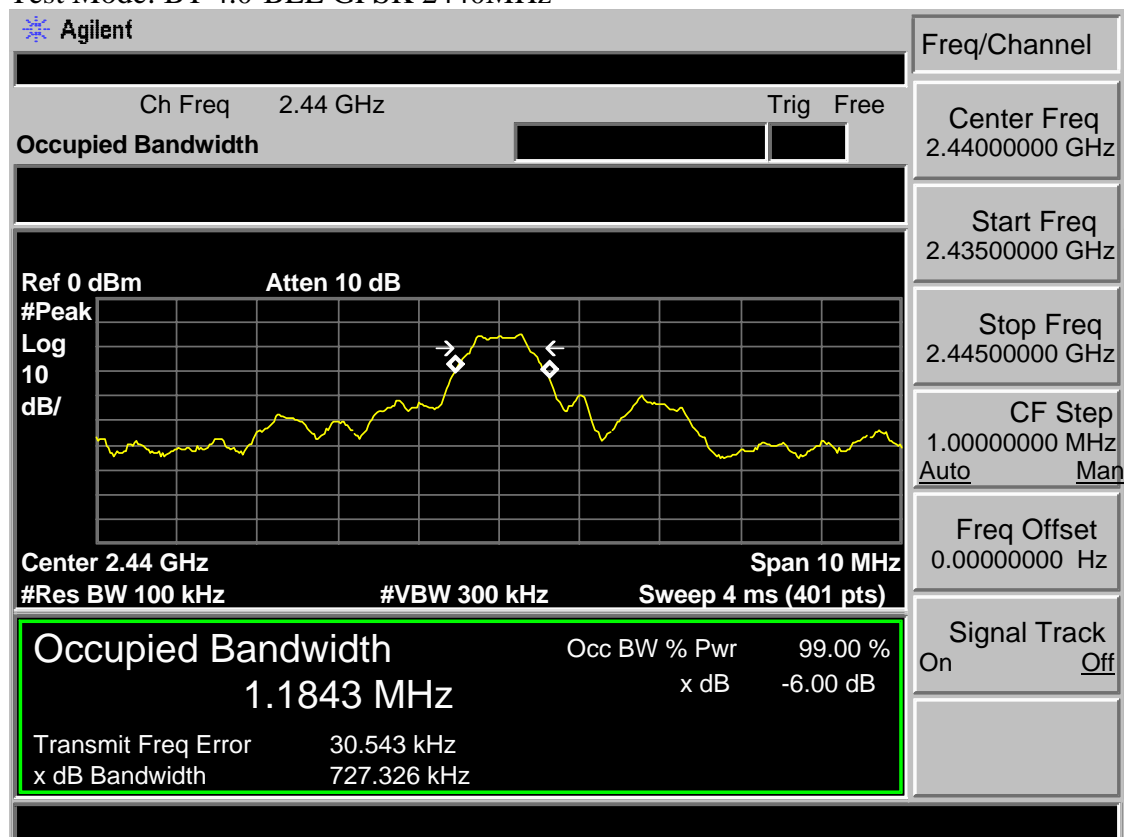
EUT: Mechanic Advisor Connection Key			
M/N: CK01			
Test date: 2016-01-10		Tested by: Tony.Tang	Test site: RF Site
Test Mode	CH	6dB bandwidth ( MHz )	Limit (KHz)
BT 4.0-BLE GFSK	CH1	0.715	>500
	CH20	0.727	>500
	CH40	0.729	>500
Conclusion : PASS			

## 6.4 Test Data

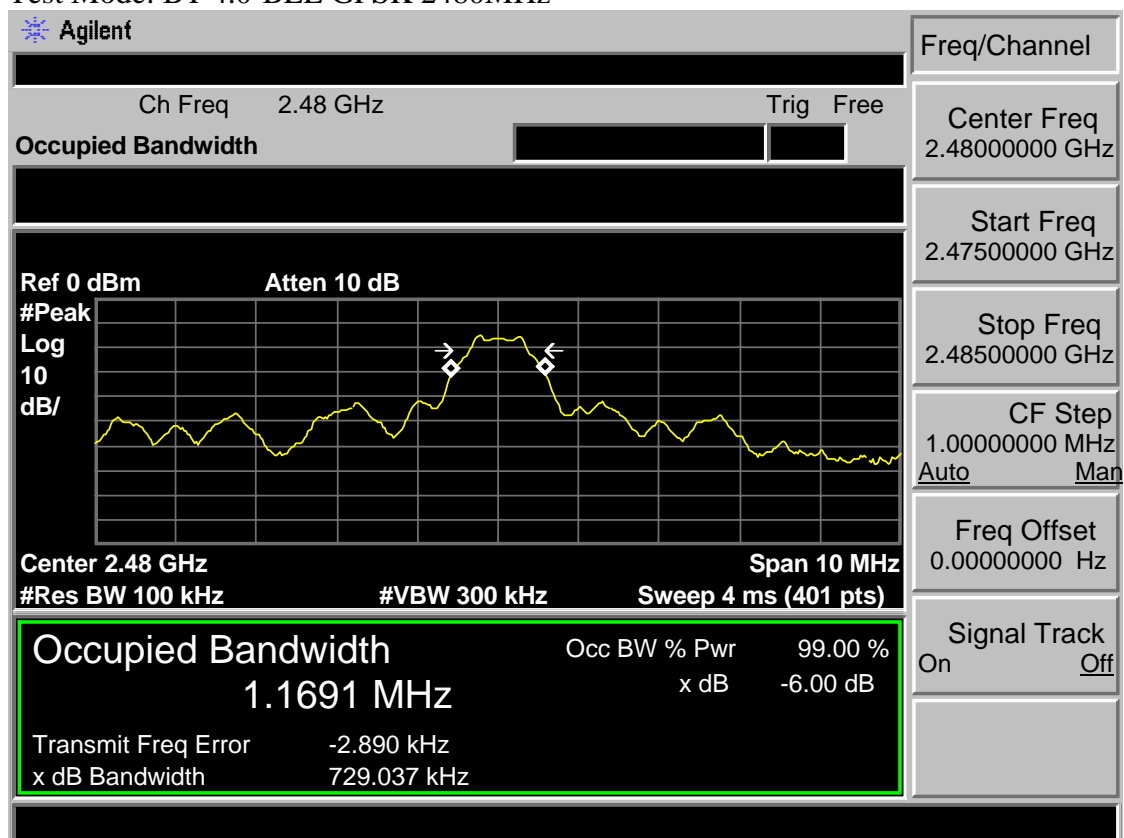
Test Mode: BT 4.0-BLE GFSK 2402MHz



Test Mode: BT 4.0-BLE GFSK 2440MHz



Test Mode: BT 4.0-BLE GFSK 2480MHz



## 7 OUTPUT POWER TEST

### 7.1 Limit

For systems using digital modulation in the 2400—2483.5MHz, The Peak out put Power shall not exceed 1W(30dBm)

### 7.2 Test Procedure

#### 7.3 Test Procedure

- 1, Connected the EUT's antenna port to spectrum analyzer device.
- 2, Follow the test procedure as described in KDB 558074
  - (1). Set the RBW  $\geq$  DTS bandwidth.
  - (2). Set VBW  $\geq$  3 x RBW.
  - (3). Set span  $\geq$  3 x RBW.
  - (4). Sweep time = auto couple.
  - (5). Detector = peak.
  - (6). Trace mode = max hold.
  - (7). Allow trace to fully stabilize.
  - (8). Use peak marker function to determine the peak amplitude level.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offs

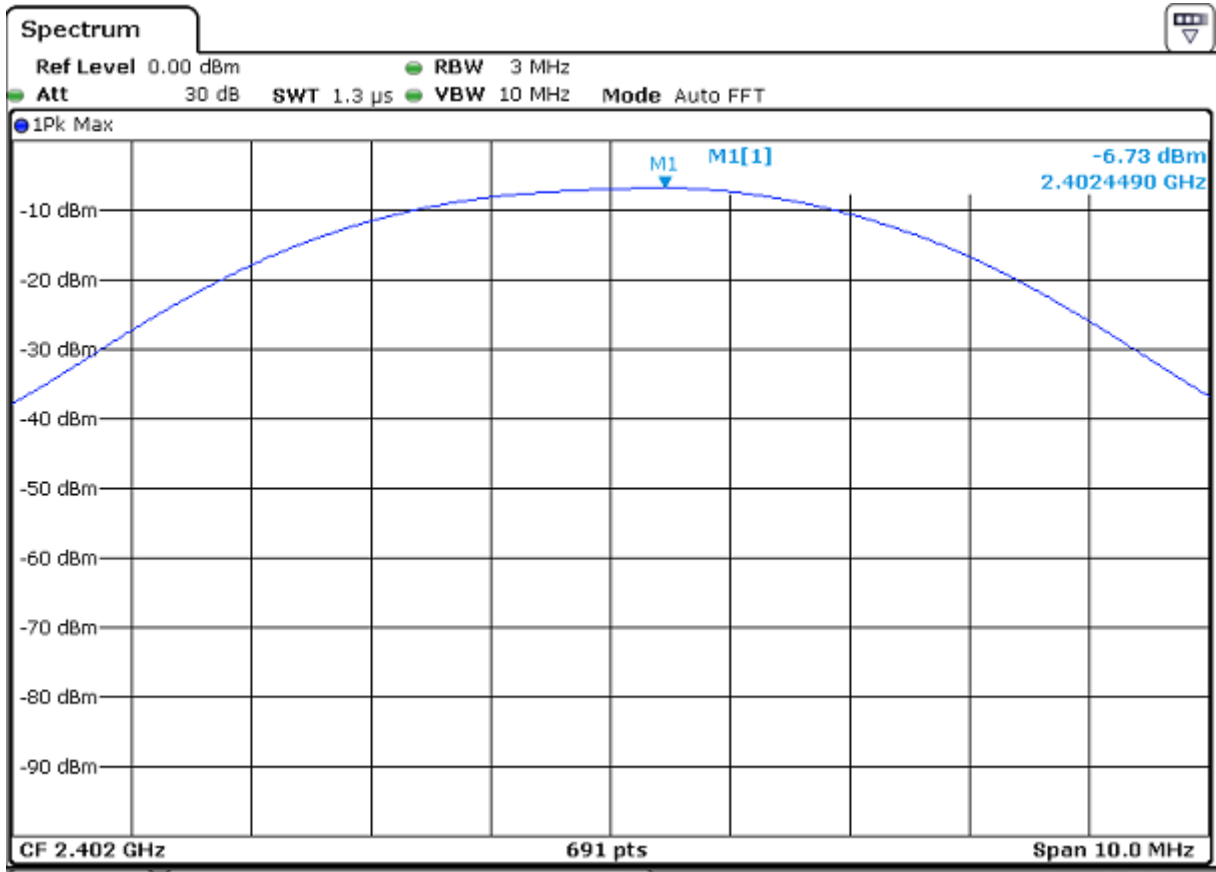
## 7.4 Test Result

EUT: Mechanic Advisor Connection Key			
M/N: CK01			
Test date: 2016-01-10		Test site: 3m Chamber	Tested by: Tony Tang
Pass			
Test Mode	CH	Peak output Power ( dBm )	Limit (dBm)
BT 4.0-BLE GFSK	CH1	-6.73	30
	CH20	-7.46	30
	CH40	-7.57	30
Conclusion : PASS			

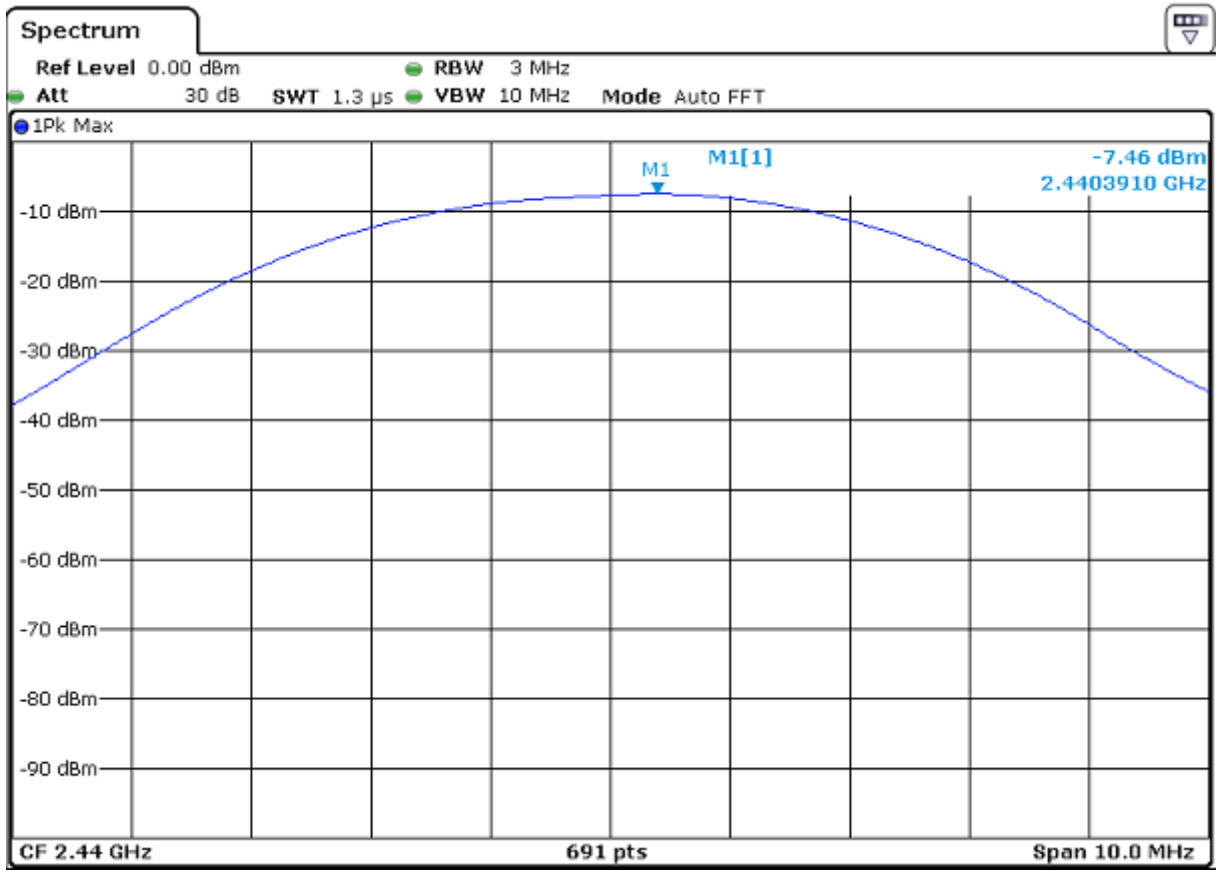


7.5 Test Data

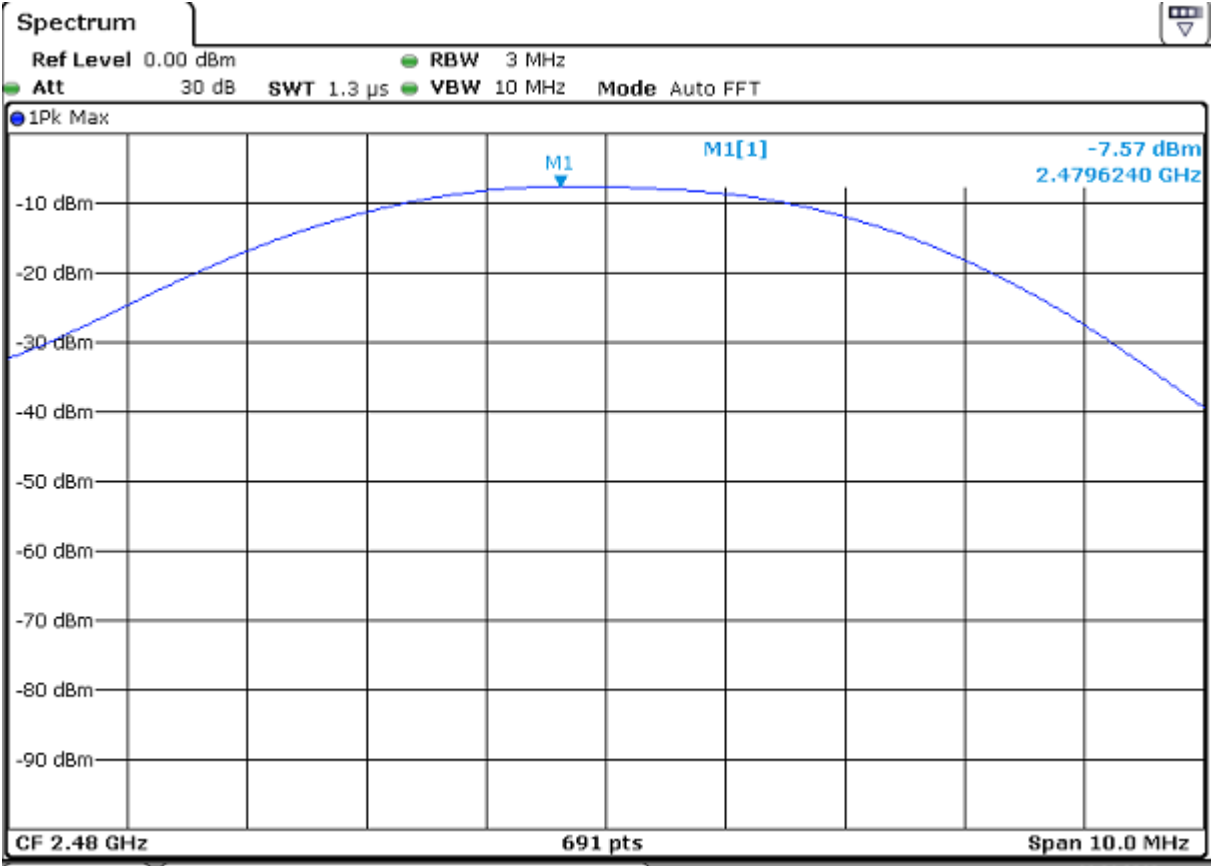
Test Mode: BT 4.0-BLE GFSK 2402MHz



Test Mode: BT 4.0-BLE GFSK 2440MHz



Test Mode: BT 4.0-BLE GFSK 2480MHz



## 8 POWER SPECTRAL DENSITY TEST

### 8.1 Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

### 8.2 Test Procedure

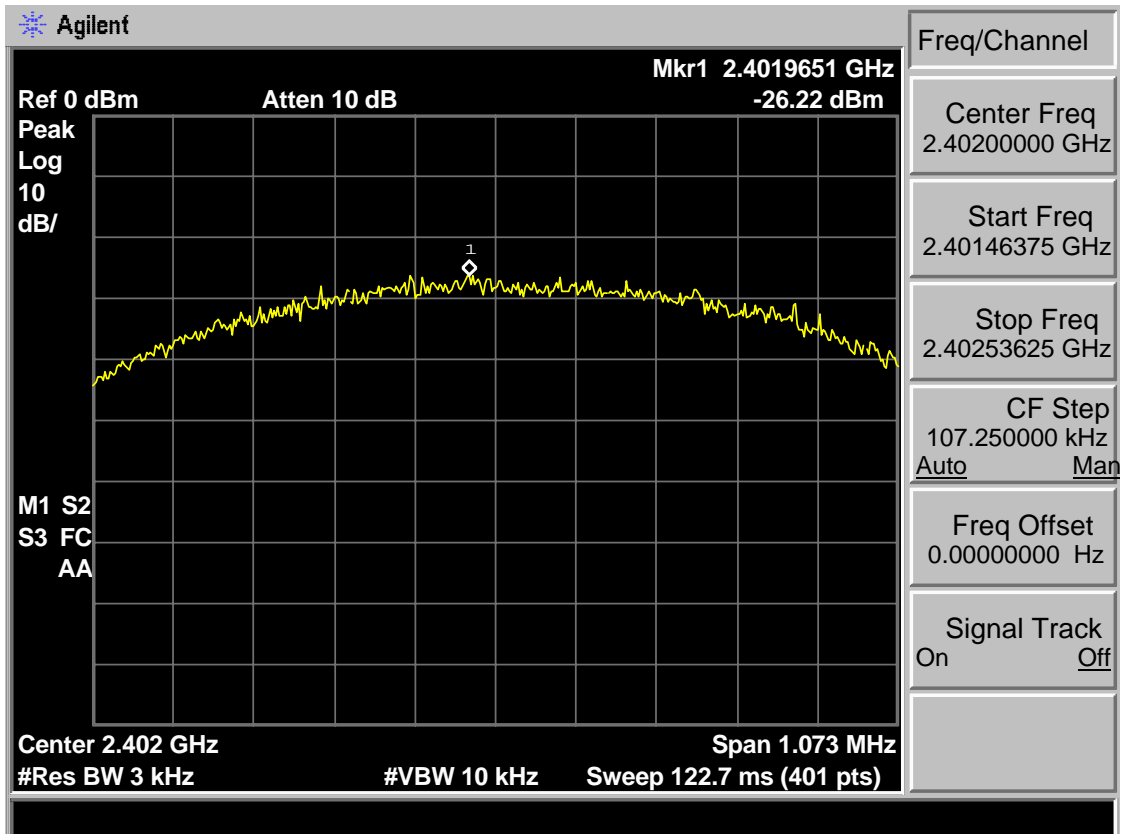
- 1, Connected the EUT's antenna port to spectrum analyzer device.
- 2, Follow the test procedure as described in KDB 558074
  - (1). Set analyzer center frequency to DTS channel center frequency.
  - (2). Set the span to 1.5 times the DTS bandwidth.
  - (3). Set the RBW to:  $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$ .
  - (4). Set the VBW  $\geq 3\text{ RBW}$ .
  - (5). Detector = peak.
  - (6). Sweep time = auto couple.
  - (7). Trace mode = max hold.
  - (8). Allow trace to fully stabilize.
  - (9). Use the peak marker function to determine the maximum amplitude level.
  - (10). If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

## 8.3 Test Result

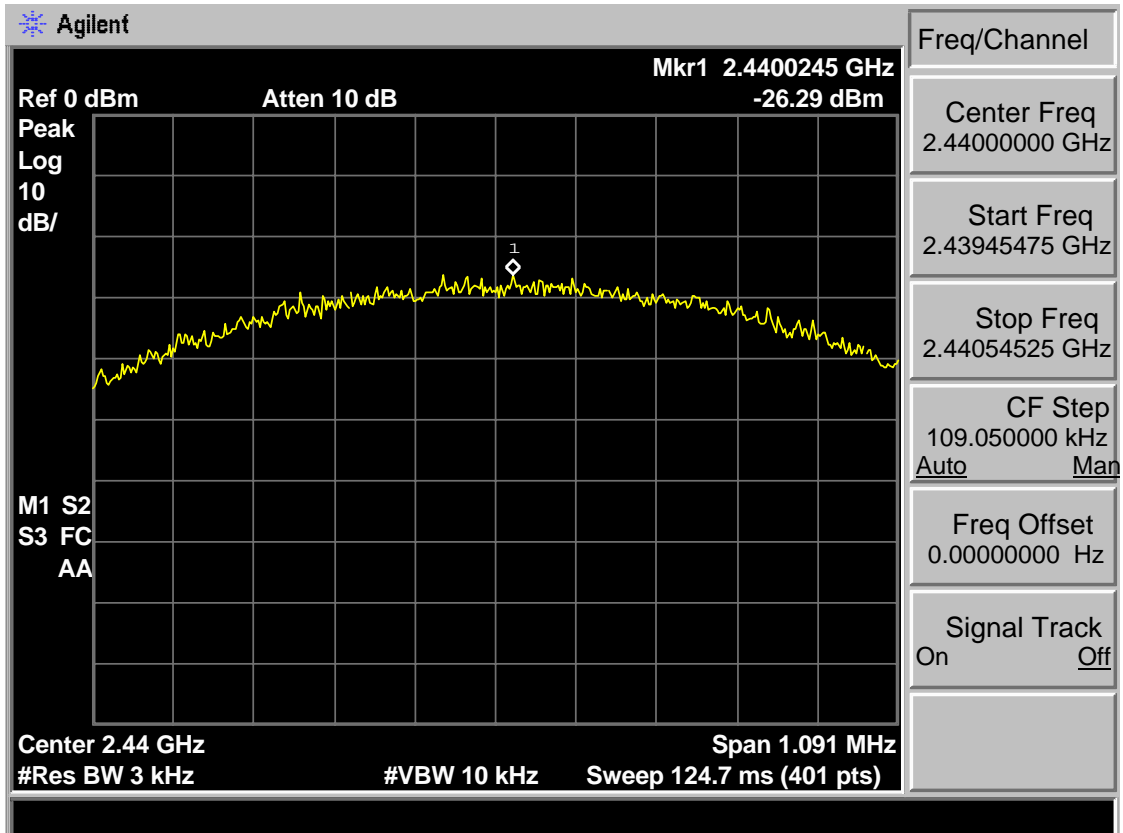
EUT: Mechanic Advisor Connection Key			
M/N: CK01			
Test date: 2016-01-10		Test site: 3m Chamber	Tested by: Tony Tang
Pass			
Test Mode	CH	Power density (dBm/3kHz )	Limit (dBm/3kHz)
BT 4.0-BLE GFSK	CH1	-26.22	8
	CH20	-26.29	8
	CH40	-27.63	8
Conclusion : PASS			

## 8.4 Test Data

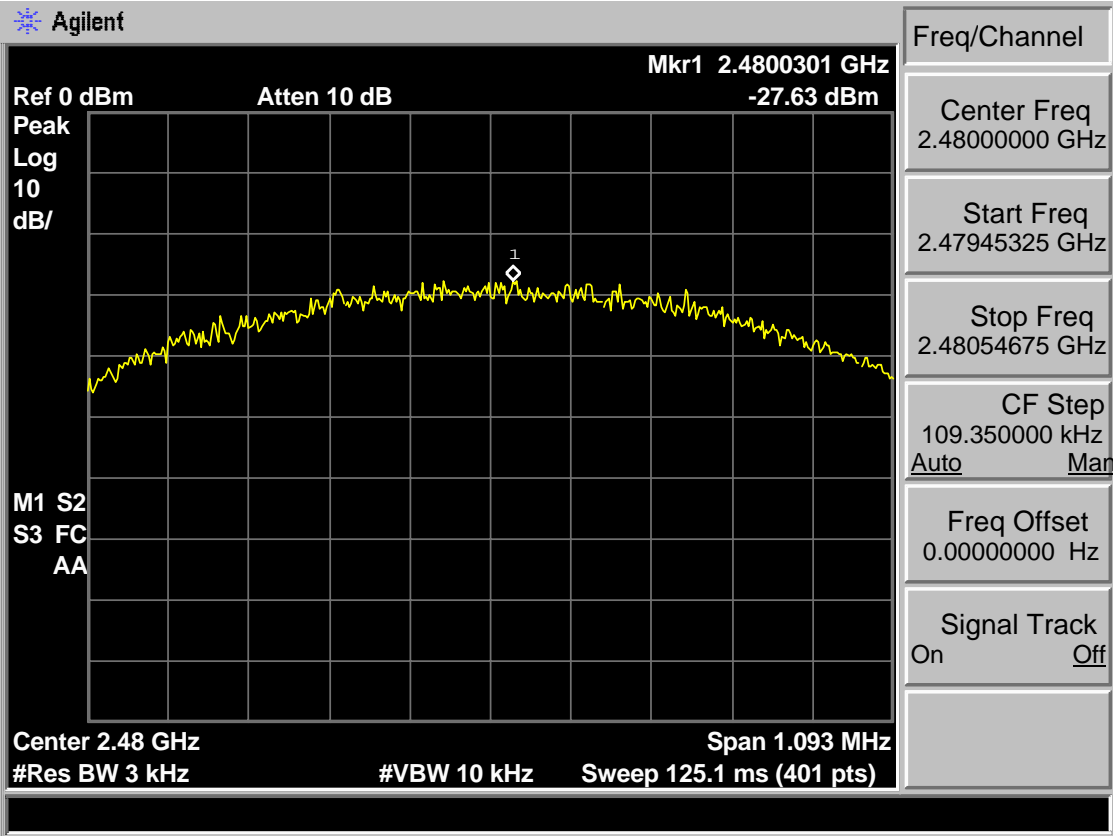
Test Mode: BT 4.0-BLE GFSK 2402MHz



Test Mode: BT 4.0-BLE GFSK 2440MHz



Test Mode: BT 4.0-BLE GFSK 2480MHz



## 9 ANTENNA REQUIREMENTS

### 9.1 Limit

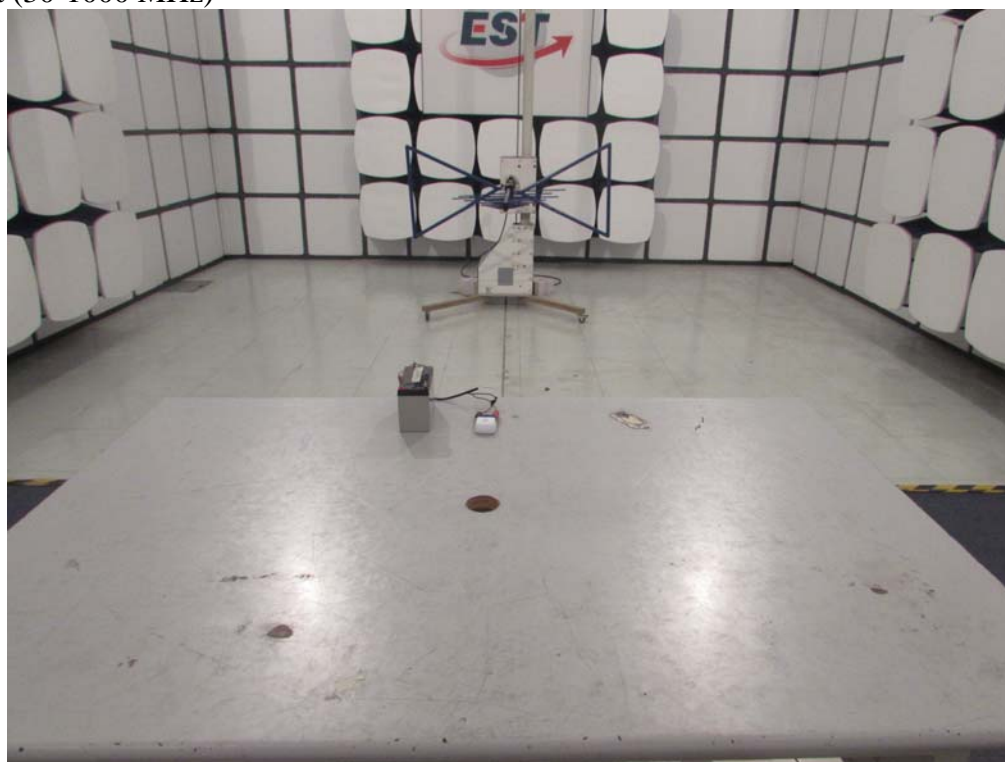
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

### 9.2 Result

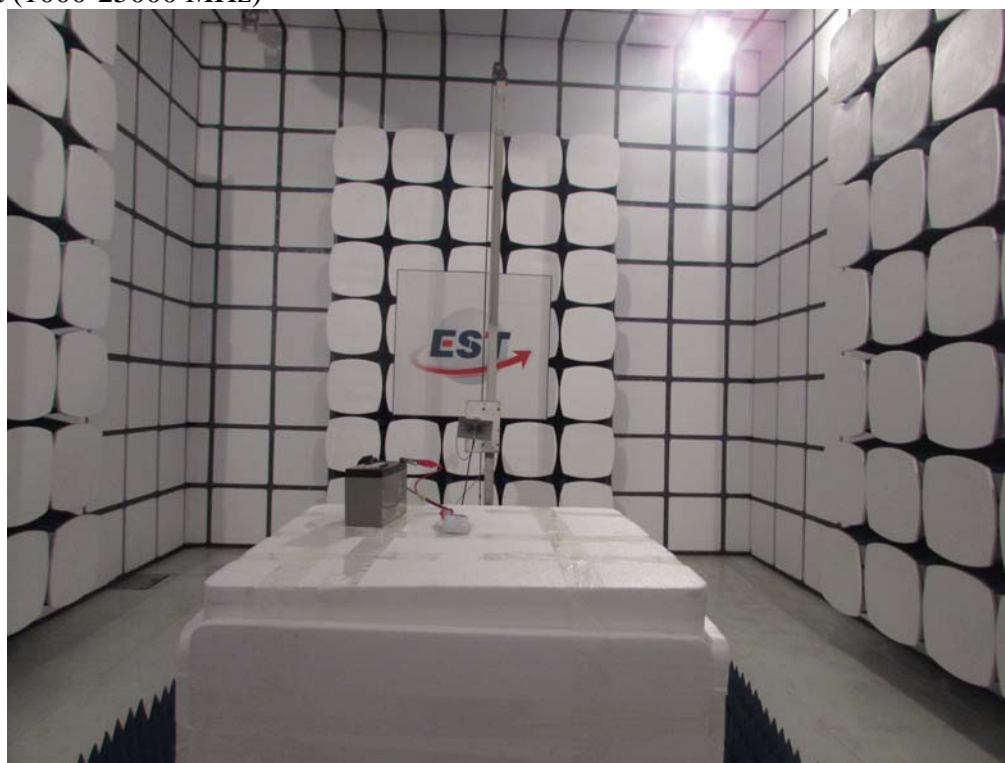
The antennas used for this product are integral Patch Antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 0dBi.

## 10 TEST SETUP PHOTO

Radiated Test (30-1000 MHz)



Radiated Test (1000-25000 MHz)

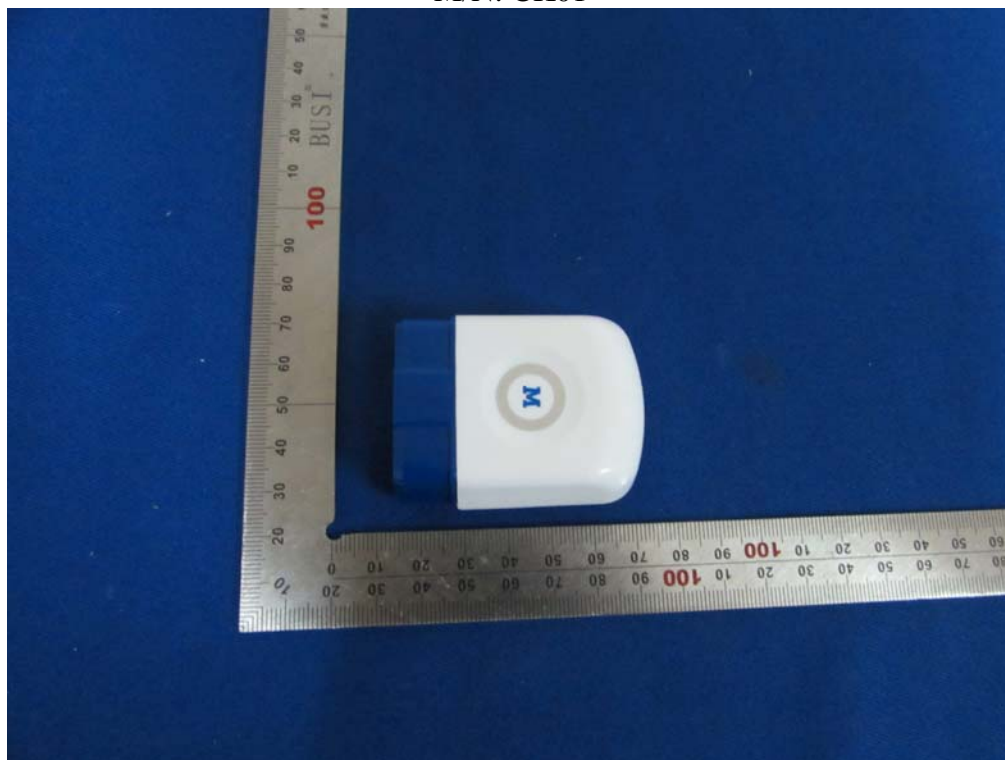




## 11 PHOTOS OF EUT

### External Photos

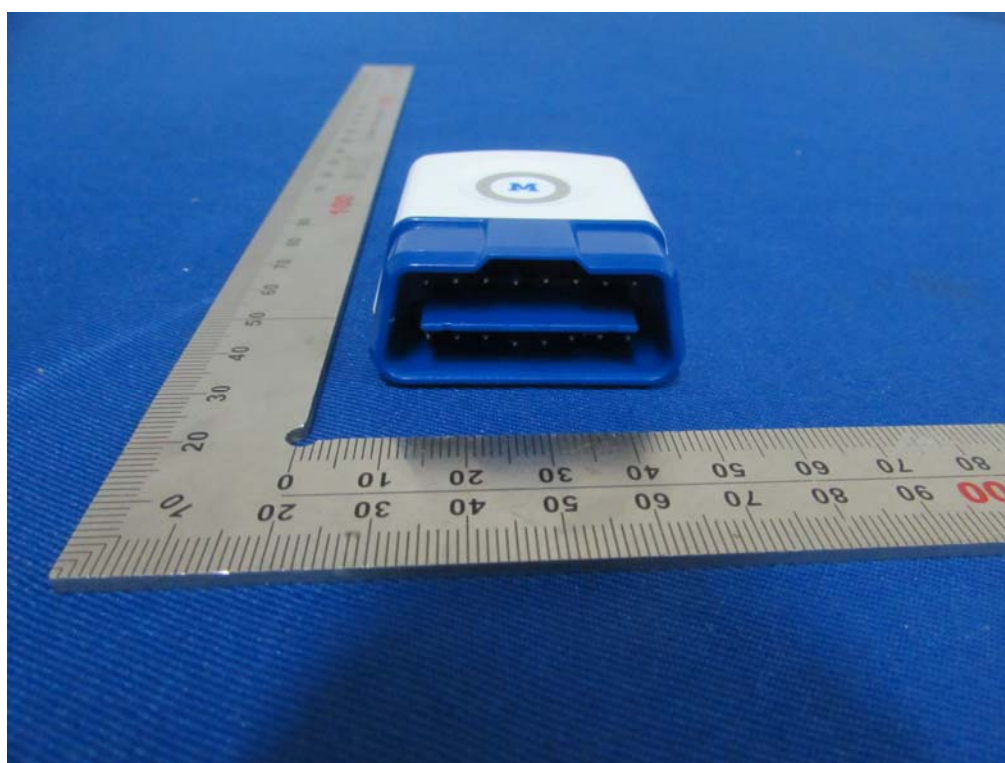
M/N: CK01



**External Photos**  
M/N: CK01

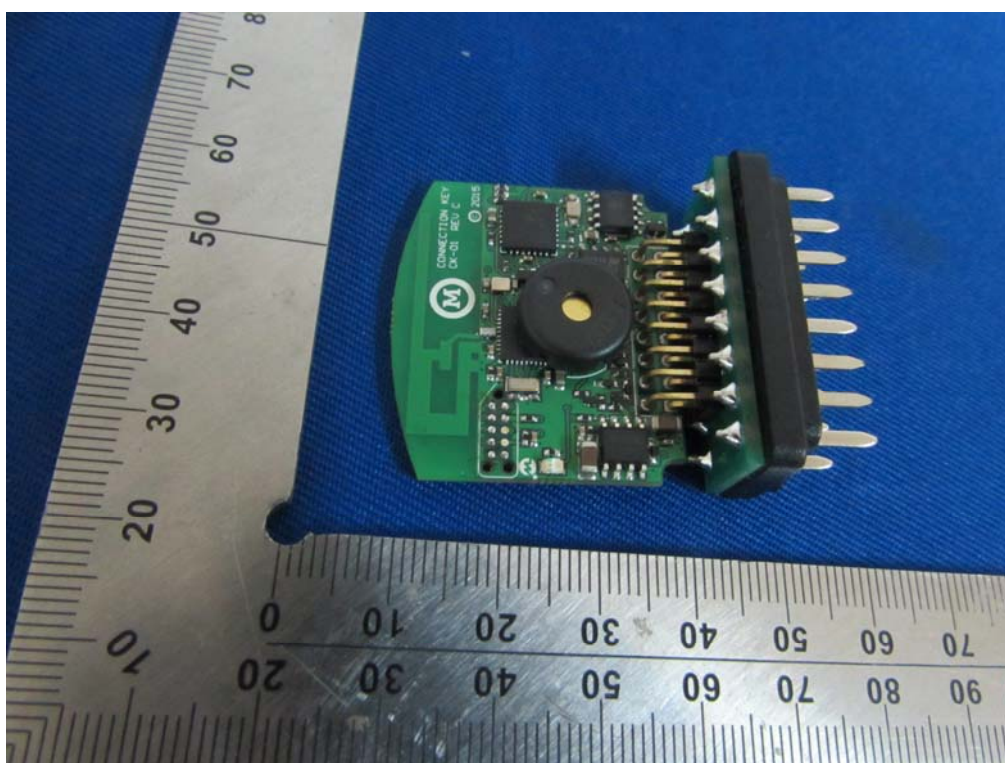


**External Photos**  
M/N: CK01

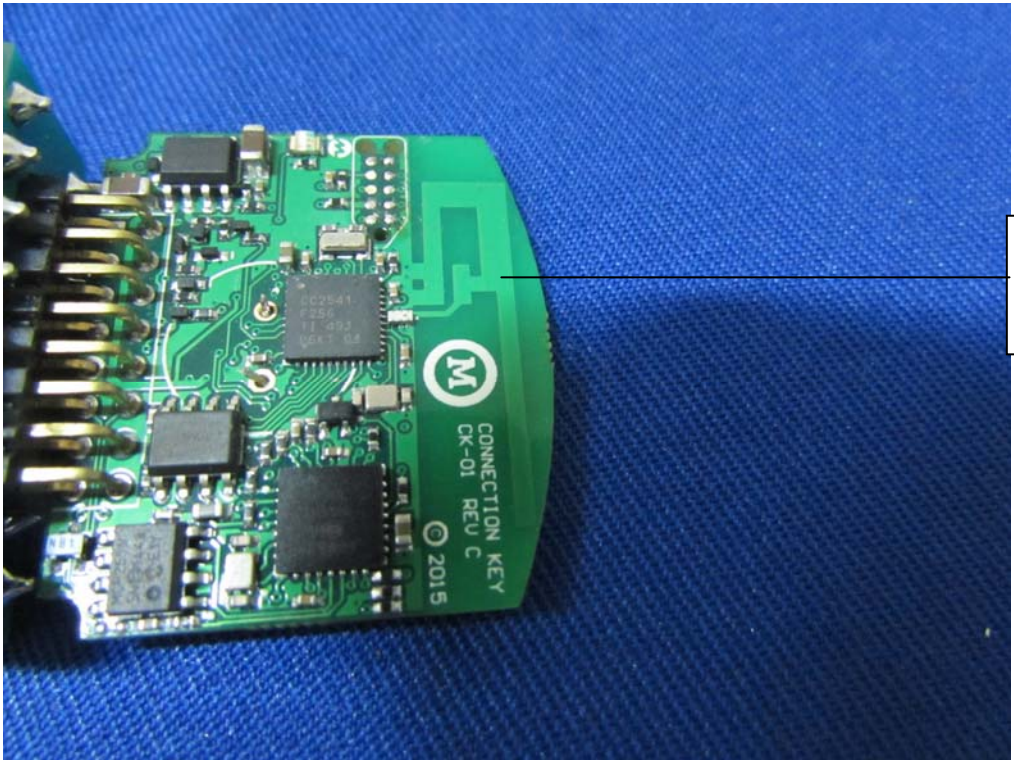
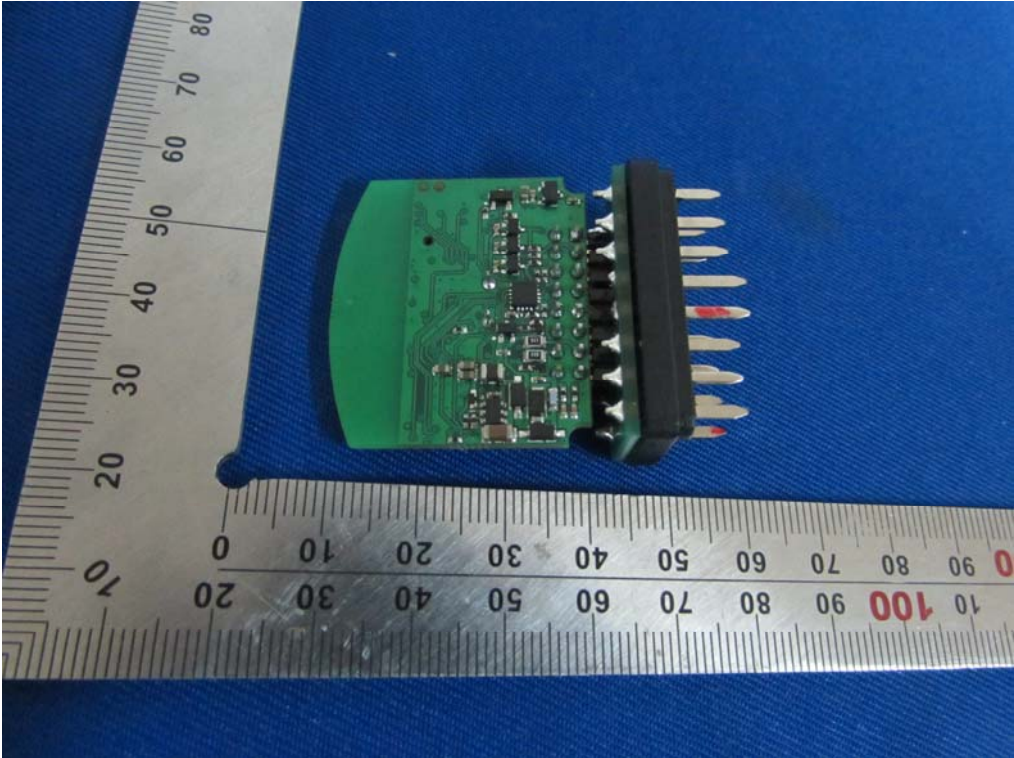




**Internal Photos**  
M/N: CK01



Internal Photos  
M/N: CK01



Bluetooth  
Antenna