

Test Report of FCC CFR 47 Part 15 Subpart C

On Behalf of

SHENZHEN GONBES TECHNOLOGY CO., LTD

FCC ID: 2ABMEG15-BT

Product Description: 3D Glasses

Model No.: G15-BT

Supplementary Model: N/A

Prepared for: SHENZHEN GONBES TECHNOLOGY CO., LTD

Room 1102-1103, Unit B4, Kexing Science Park, No.15 Keyuan Rd, Nanshan, Shenzhen, China

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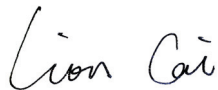
Fax: 86-755-86337028

Report No.: BCT13KR410E

Issue Date: December 11, 2013

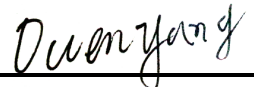
Test Date: November 27- December 11, 2013

Tested by:



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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant:	SHENZHEN GONBES TECHNOLOGY CO., LTD
Address of applicant:	Room 1102-1103, Unit B4, Kexing Science Park, No.15 Keyuan Rd, Nanshan, Shenzhen, China
Manufacturer :	SHENZHEN GONBES TECHNOLOGY CO., LTD
Address of manufacturer:	Room 1102-1103, Unit B4, Kexing Science Park, No.15 Keyuan Rd, Nanshan, Shenzhen, China

General Description of E.U.T

Items	Description
EUT Description:	3D Glasses
Model No.:	G15-BT
Trade Name:	Gonbes
Supplementary Model:	N/A
BT Module	V3.0-Compliant
Frequency Band:	2402~2480MHz
Number of Channels:	79
Type of Modulation:	GFSK, Pi/4 DQPSK, 8-DPSK
Antenna Gain	0 dBi
Antenna Type:	Integral Antenna
Rated Voltage:	Input: DC 3V from Battery

Remark: * The test data gathered are from the production sample provided by the manufacturer.

1.2 Related Submittal(s) / Grant (s) and Test Methodology

The tests were performed based on the Electromagnetic Interference (EMI) tests performed on the EUT. Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 - 2003 Radiated testing was performed at an antenna to EUT distance 3 meters.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.207, 15.209 and 15.247 rules. Test was carried out according to the above mentioned FCC rules and the FCC publication notice DA 00-705: Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems

1.3 Test Facility

All measurement required was performed at laboratory of Shenzhen Bontek Compliance Testing Laboratory Ltd at 1/F, Block East H-3, OCT Eastern Ind. Zone, Qiaocheng East Road, Nanshan, Shenzhen, China and Centre Testing International (ShenZhen) Corporation ,Location at Hongwei Industrial Zone, Baoan 70 District, Shenzhen, Guangdong.

The test facility is recognized, certified, or accredited by the following organizations:

FCC – Registration No.: 338263

Shenzhen Bontek Compliance Testing Laboratory Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 338263, March 03, 2011.

IC Registration No.: 7631A

The 3m alternate test site of Shenzhen Bontek Compliance Testing Laboratory Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 7631A on January 25, 2011.

CNAS - Registration No.: L3923

Shenzhen Bontek Compliance Testing Laboratory Ltd. to ISO/IEC 17025:25 General Requirements for the Competence of Testing and Calibration Laboratories(CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing. The acceptance letter from the CNAS is maintained in our files: Registration: L3923, March 22, 2012.

TUV - Registration No.: UA 50242657-0001

Shenzhen Bontek Compliance Testing Laboratory Ltd. An assessment of the laboratory was conducted according to the "Procedures and Conditions for EMC Test Laboratories" with reference to EN ISO/IEC 17025 by a TUV Rheinland auditor. Audit Report NO. 17010783-003.

2. SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The calibrated antennas used to sample the radiated field strength are mounted on a non-conductive, motorized antenna mast 3 or 10 meters from the leading edge of the turntable.

2.3 General Test Procedures

Conducted Emissions: The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 7.1 of ANSI C63.4-2003 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak detector mode.

Radiated Emissions: The EUT is a placed on as turntable, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4-2003.

2.4 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
Power Line Conducted Emission	+/- 2.3 dB
Radiated Emission	+/- 3.4 dB

Uncertainty figures are valid to a confidence level of 95%.

2.5 Test Equipment List and Details

Test equipments list of Shenzhen Bontek Compliance Testing Laboratory Co., Ltd.

No.	Instrument no.	Equipment	Manufacturer	Model No.	S/N	Last Calculator	Due Calculator
1	BCT-EMC001	EMI Test Receiver	R&S	ESCI	100687	2013-4-25	2014-4-24
2	BCT-EMC002	EMI Test Receiver	R&S	ESPI	100097	2013-11-1	2014-10-31
3	BCT-EMC003	Amplifier	HP	8447D	1937A02492	2013-4-25	2014-4-24
4	BCT-EMC018	TRILOG Broadband Test-Antenna	SCHWARZBECK	VULB9163	9163-324	2013-4-25	2014-4-24
5	BCT-EMC021	Triple-Loop Antenna	EVERFINE	LLA-2	711002	2013-11-1	2014-10-31
6	BCT-EMC026	RF POWER AMPLIFIER	FRANKONIA	FLL-75	1020A1109	2013-4-25	2014-4-24
7	BCT-EMC029	6DB Attenuator	FRANKONIA	N/A	1001698	2013-4-25	2014-4-24
8	BCT-EMC032	10dB attenuator	ELECTRO-METRICS	EM-7600	836	2013-4-25	2014-4-24
9	BCT-EMC036	Spectrum Analyzer	R&S	FSP	100397	2013-11-1	2014-10-31
10	BCT-EMC037	Broadband preamplifier	SCHWARZBECK	BBV9718	9718-182	2013-4-25	2014-4-24
11	BCT-EMC039	Horn Antenna	SCHWARZBECK	BBHA 9120D	0437	2013-4-25	2014-4-24
12	BCT-EMC038	Horn Antenna	SCHWARZBECK	BBHA9170	0483	2013-4-5	2014-4-4

3. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §15.207	AC Power Line Conducted Emission	Not applicable
FCC §15.247(a)(1)	Hopping Channel Bandwidth	Pass
FCC §15.247(a)(1)	Hopping Channel Separation	Pass
FCC §15.247(a)(1)	Number of Hopping Frequency Used	Pass
FCC §15.247(a)(1)(iii)	Dwell Time of Each Frequency	Pass
FCC §15.247(b)(1)	Maximum Peak Output Power	Pass
FCC §15.247(d)	Band Edges Emission	Pass
FCC §15.247(d)	Spurious Radiated Emission	Pass
FCC §15.203/15.247(b)/(c)	Antenna Requirement	Pass

4. TEST OF AC POWER LINE CONDUCTED EMISSION

4.1 Applicable Standard

Refer to FCC §15.207.

For a Low-power Radio-frequency Device is designed to be connected to the AC power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed below limits table.

Frequency Range (MHz)	Limits (dBuV)	
	Quasi-Peak	Average
0.150~0.500	66~56	56~46
0.500~5.000	56	46
5.000~30.00	60	50

4.2 Test Setup Diagram

No required

4.3 Test Result

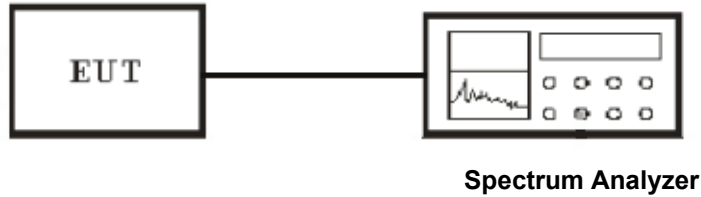
Notes: The EUT is powered by battery without AC mains(with battery),this test is not applicable.

5. Test of Hopping Channel Bandwidth

5.1 Applicable Standard

Section 15.247(a)(1): Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

5.2 EUT Setup



5.3 Test Equipment List and Details

See section 2.5.

5.4 Test Procedure

1. The transmitter output was connected to the spectrum analyzer through an attenuator.
2. Use the following spectrum analyzer settings:
Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel
RBW \geq 1% of the 20 dB bandwidth, VBW \geq RBW
Sweep = auto
Detector function = peak
Trace = max hold
3. The spectrum width with level higher than 20dB below the peak level.
4. Repeat above 1~3 points for the middle and highest channel of the EUT.

5.5 Test Result

Temperature (°C) : 22~23	EUT: 3D Glasses
Humidity (%RH) : 50~54	M/N: G15-BT
Barometric Pressure (mbar) : 950~1000	Operation Condition: Tx Mode

BDR 1M

Modulation Type	Channel No.	Frequency (MHz)	20dB Bandwidth (kHz)
GFSK	Low	2402.00	570
GFSK	Middle	2441.00	570
GFSK	High	2480.00	570

EDR 2M

Modulation Type	Channel No.	Frequency (MHz)	20dB Bandwidth (kHz)
Pi/4 DQPSK	Low	2402.00	1158
Pi/4 DQPSK	Middle	2441.00	1158
Pi/4 DQPSK	High	2480.00	1158

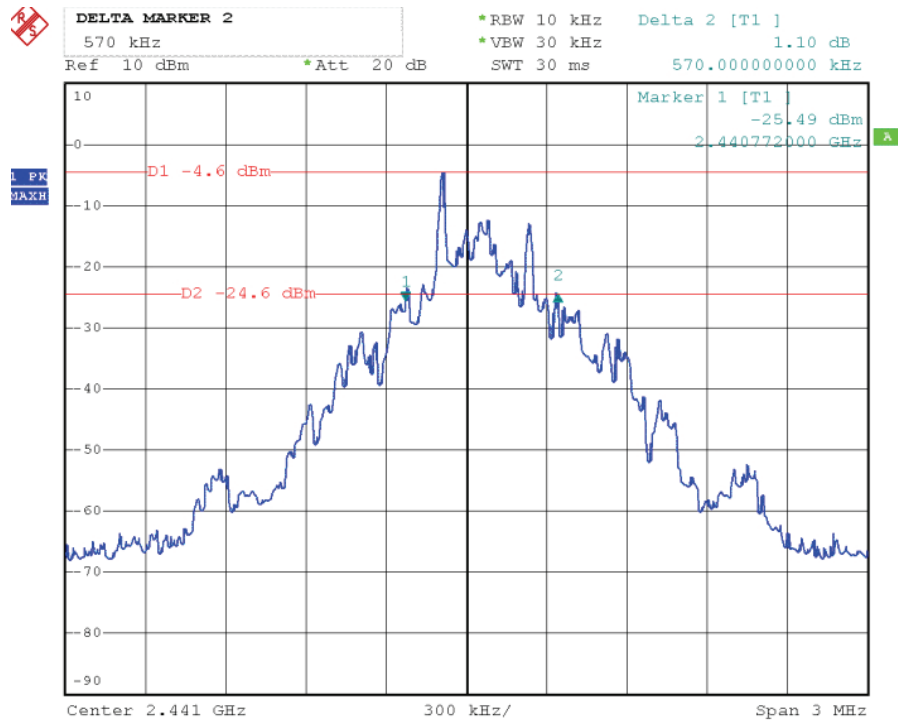
EDR 3M

Modulation Type	Channel No.	Frequency (MHz)	20dB Bandwidth (kHz)
8-DPSK	Low	2402.00	1176
8-DPSK	Middle	2441.00	1170
8-DPSK	High	2480.00	1164

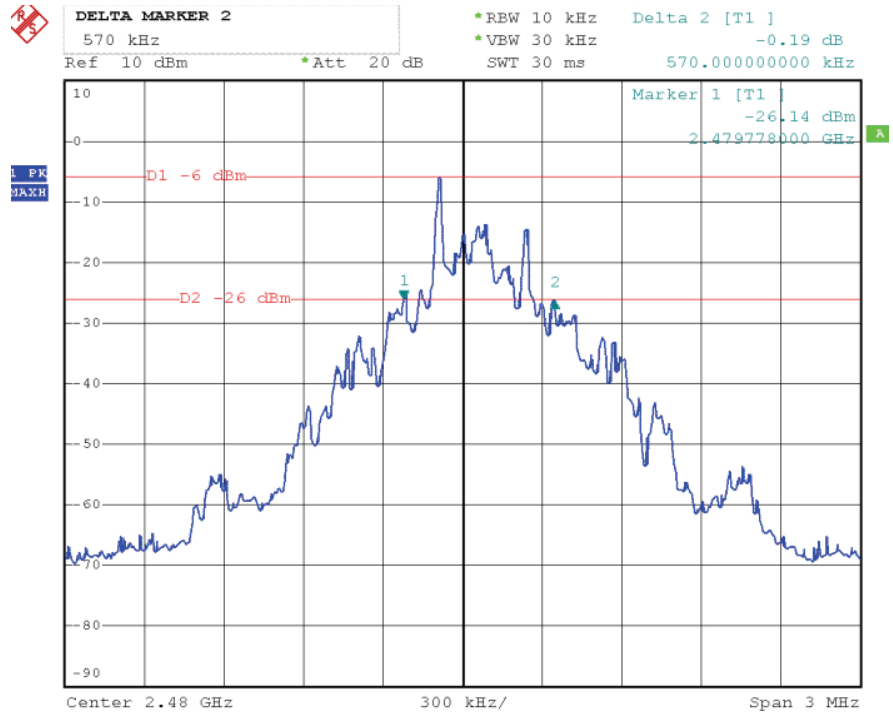
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Channel Low**



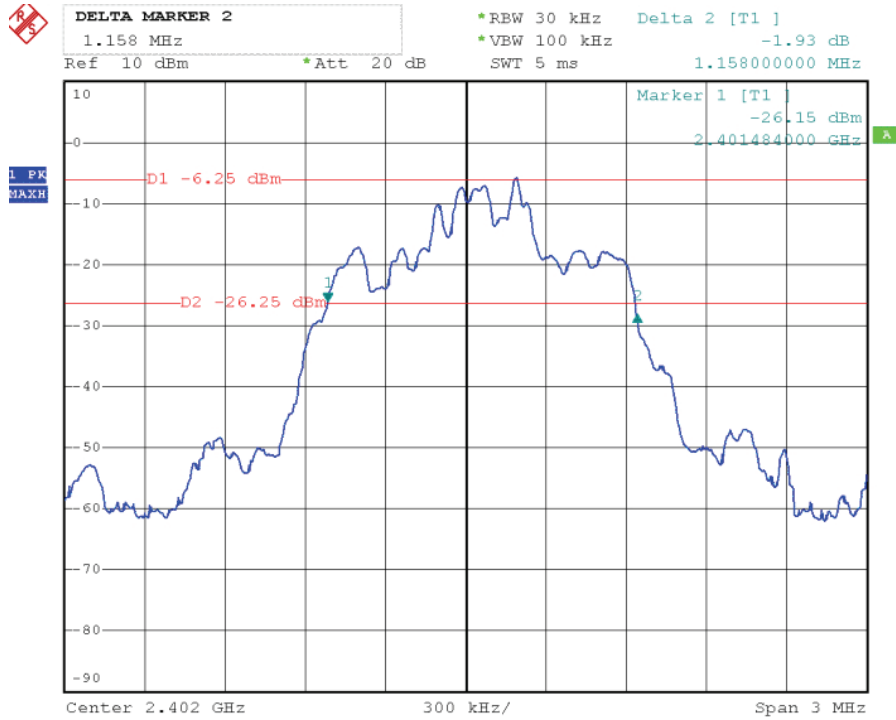
Channel Middle



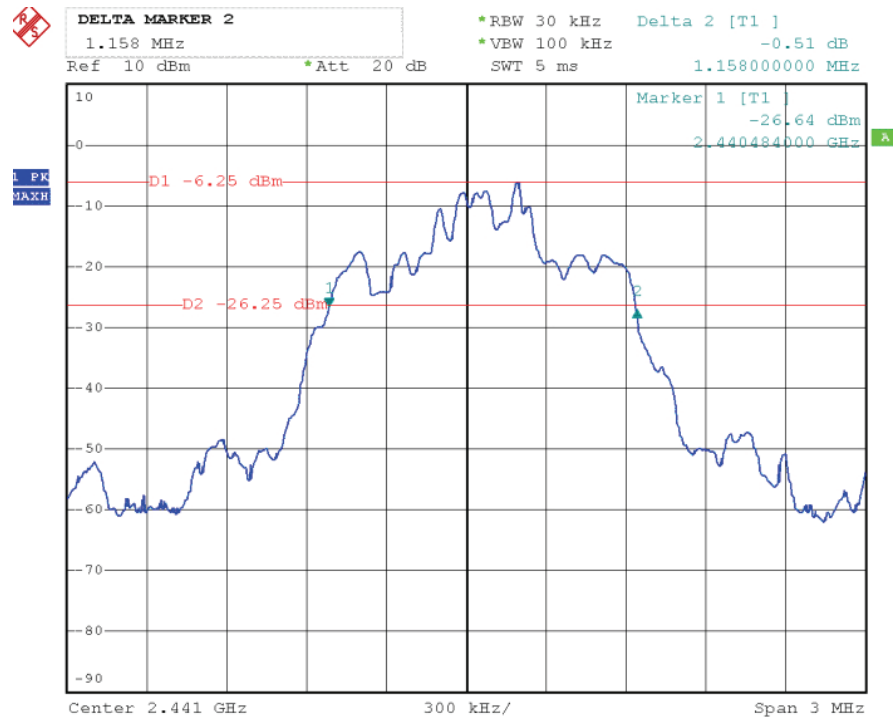
Channel High



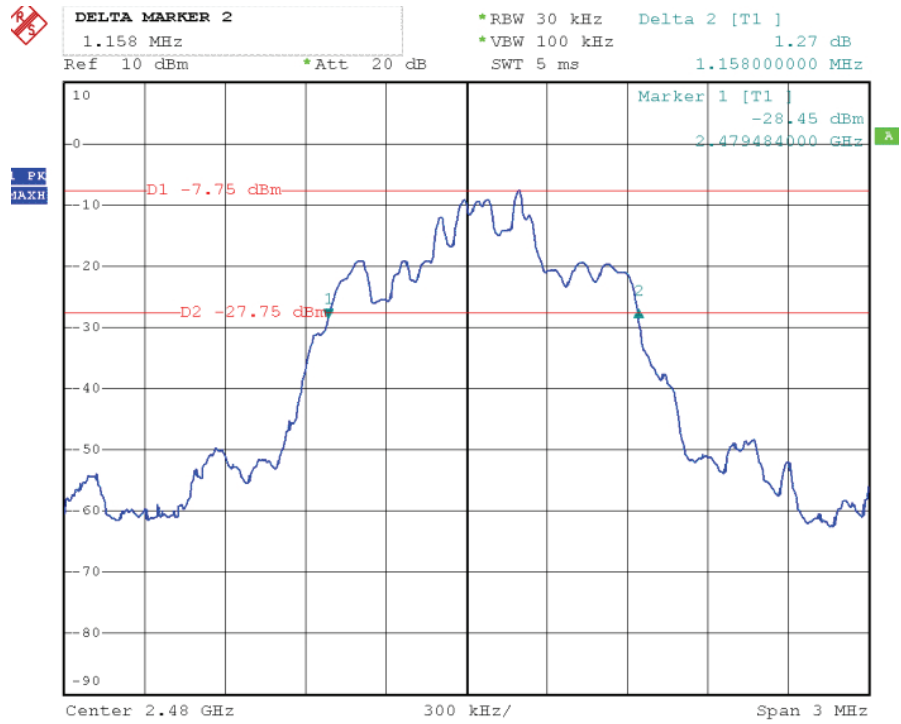
**EDR 2M
Channel Low**



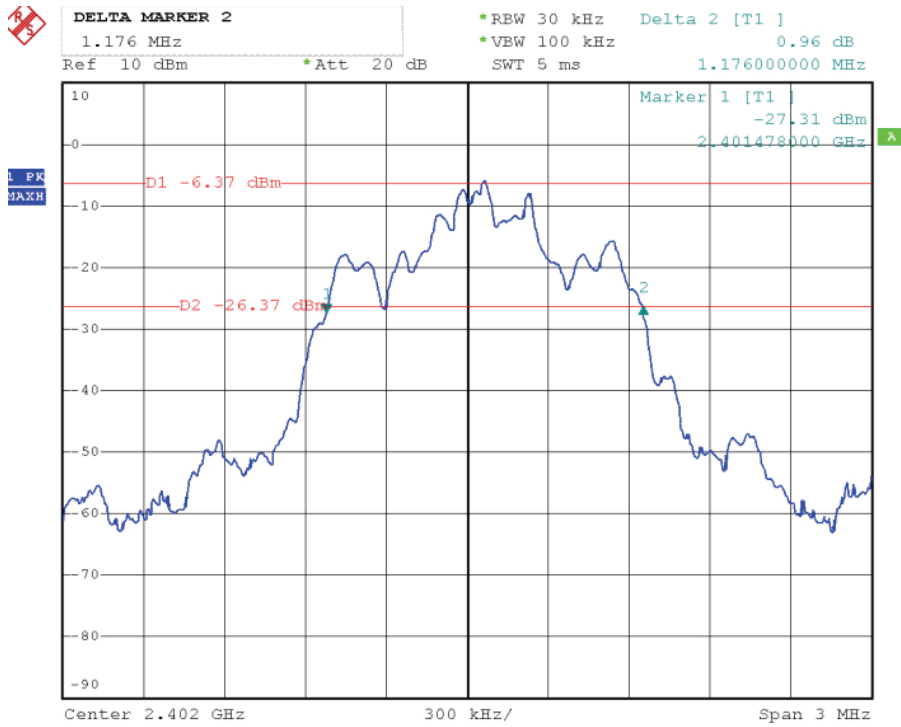
Channel Middle



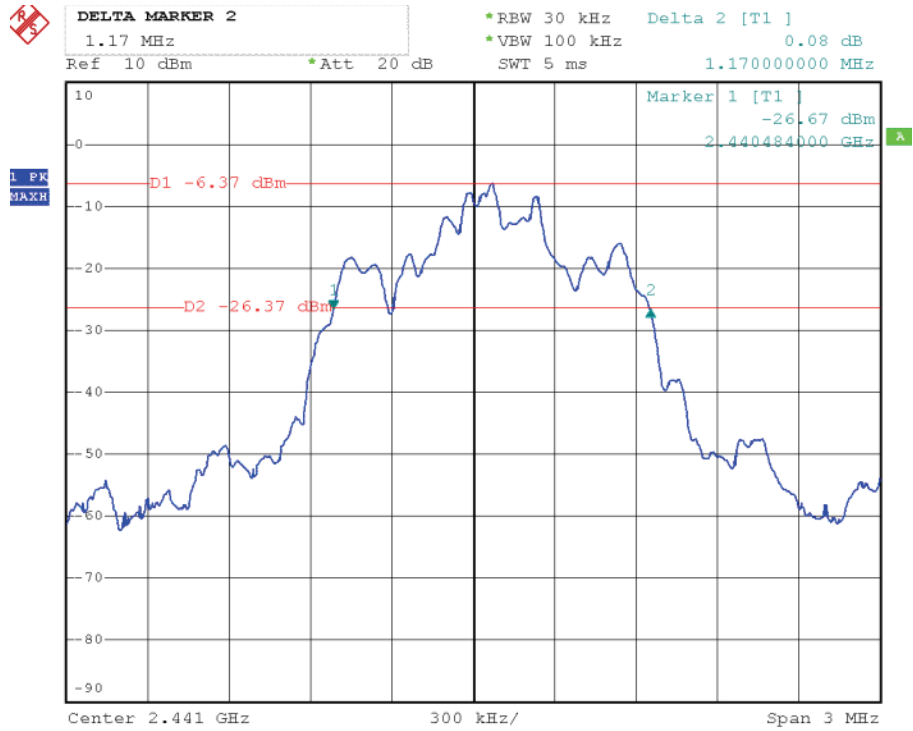
Channel High



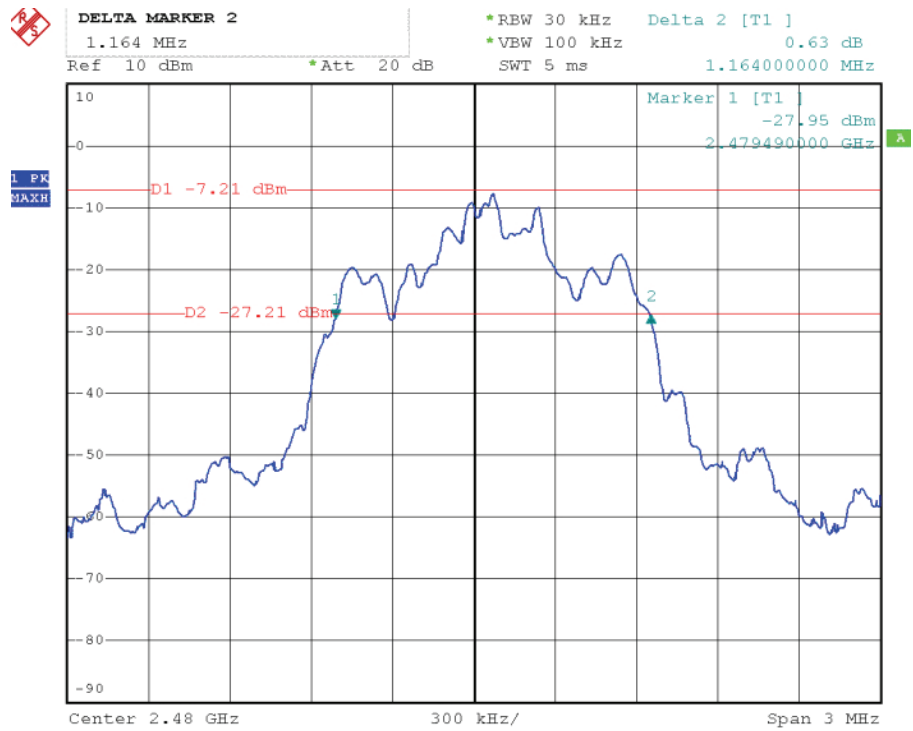
EDR 3M Channel Low



Channel Middle



Channel High

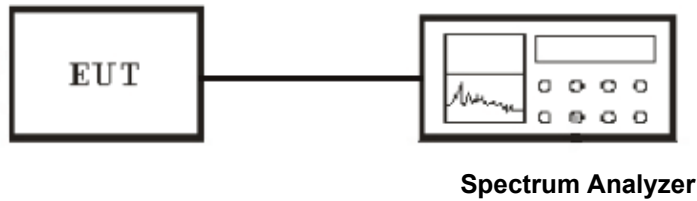


6. Test of Hopping Channel Separation

6.1 Applicable Standard

Section 15.247(a)(1): Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

6.2 EUT Setup



6.3 Test Equipment List and Details

See section 2.5.

6.4 Test Procedure

1. The transmitter output was connected to the spectrum analyzer through an attenuator.
2. Set RBW of spectrum analyzer to 30KHz and VBW to 100KHz.
3. Set Detector to Peak, Trace to Max Hold and Sweep Time is Auto.
4. The Hopping Channel Separation is defined as the separation between 2 neighboring hopping frequencies.
5. Repeat above 1~3 points for the middle and highest channel of the EUT.

6.5 Test Result

Temperature (°C) : 22~23	EUT: 3D Glasses
Humidity (%RH) : 50~54	M/N: G15-BT
Barometric Pressure (mbar) : 950~1000	Operation Condition: Tx Mode

BDR 1M

Modulation Type	Frequency (MHz)	Channel Separation (MHz)	Min. Limit (kHz)
GFSK	2402~2403	1.004	>25
GFSK	2441~2442	1.004	>25
GFSK	2479~2480	1.004	>25

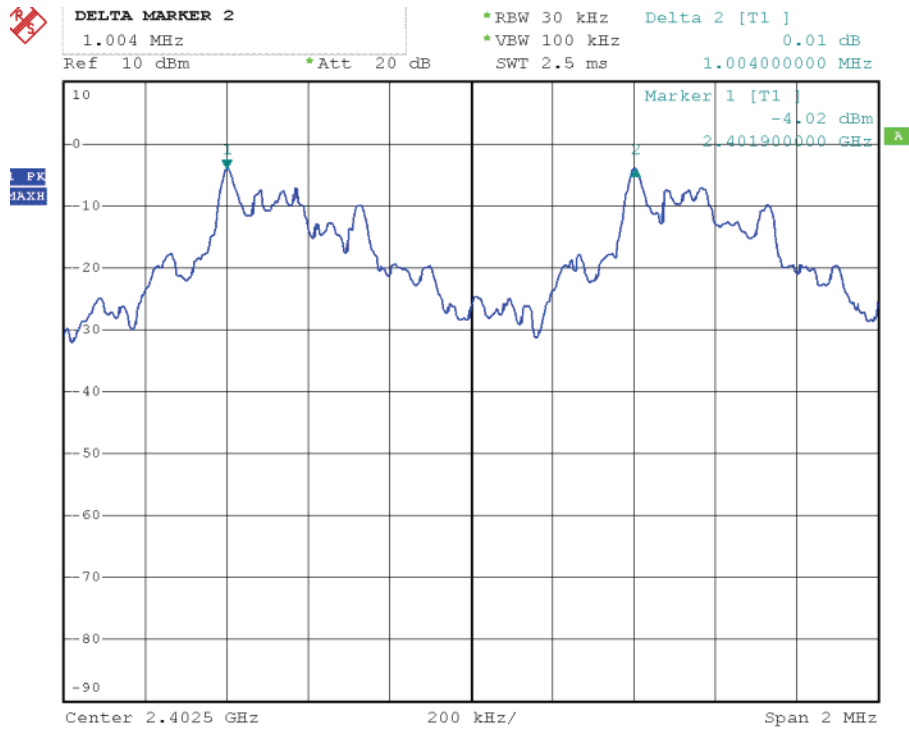
EDR 2M

Modulation Type	Frequency (MHz)	Channel Separation (MHz)	Min. Limit (kHz)
Pi/4 DQPSK	2402~2403	1.000	>25
Pi/4 DQPSK	2441~2442	1.004	>25
Pi/4 DQPSK	2479~2480	1.004	>25

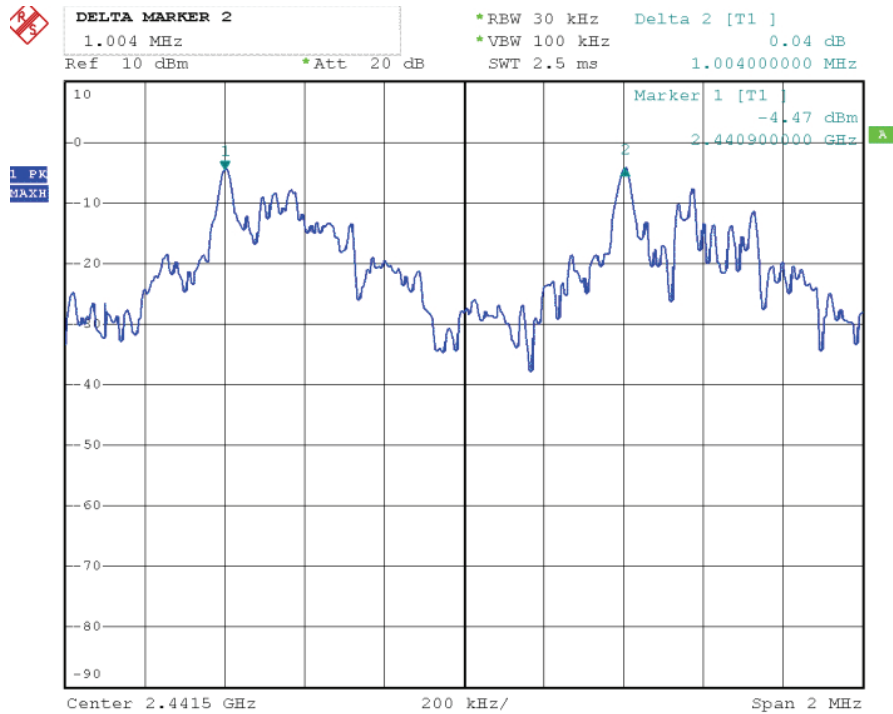
EDR 3M

Modulation Type	Frequency (MHz)	Channel Separation (MHz)	Min. Limit (kHz)
8-DPSK	2402~2403	1.005	>25
8-DPSK	2441~2442	1.008	>25
8-DPSK	2479~2480	1.004	>25

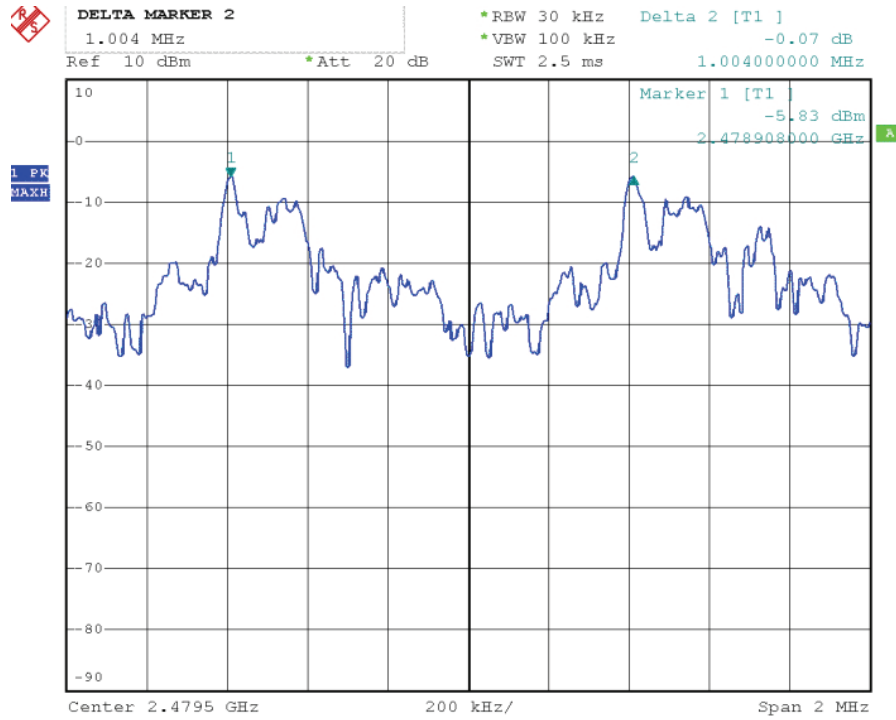
**BDR 1M
Channel Low**



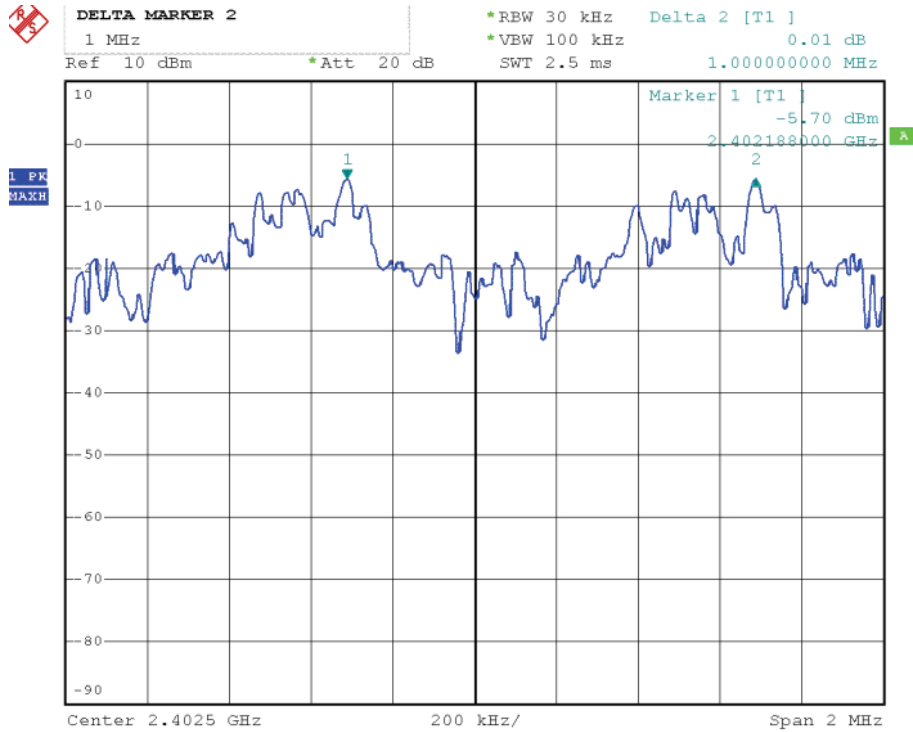
Channel Middle



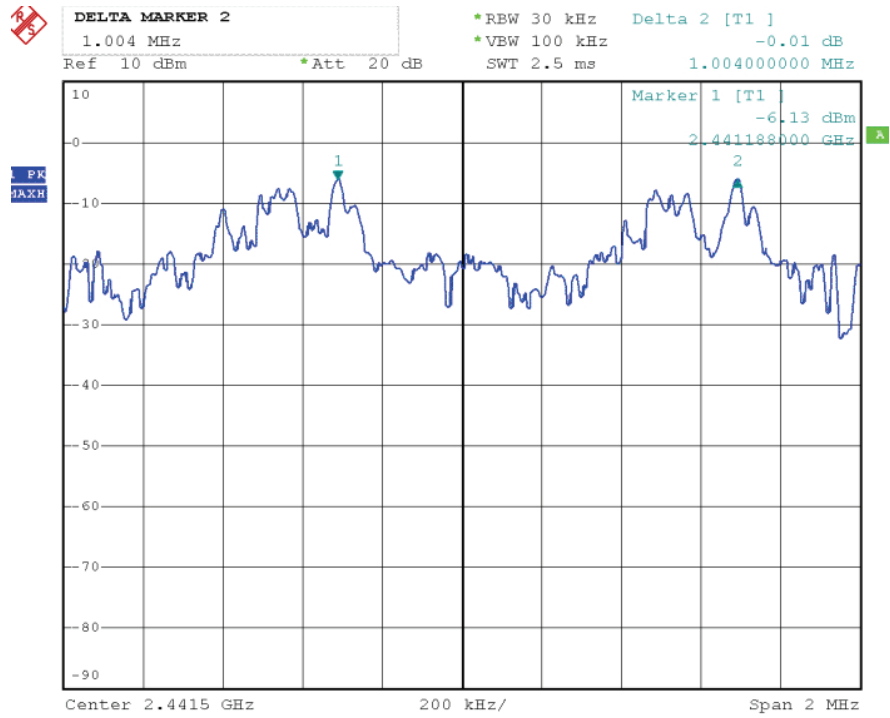
Channel High



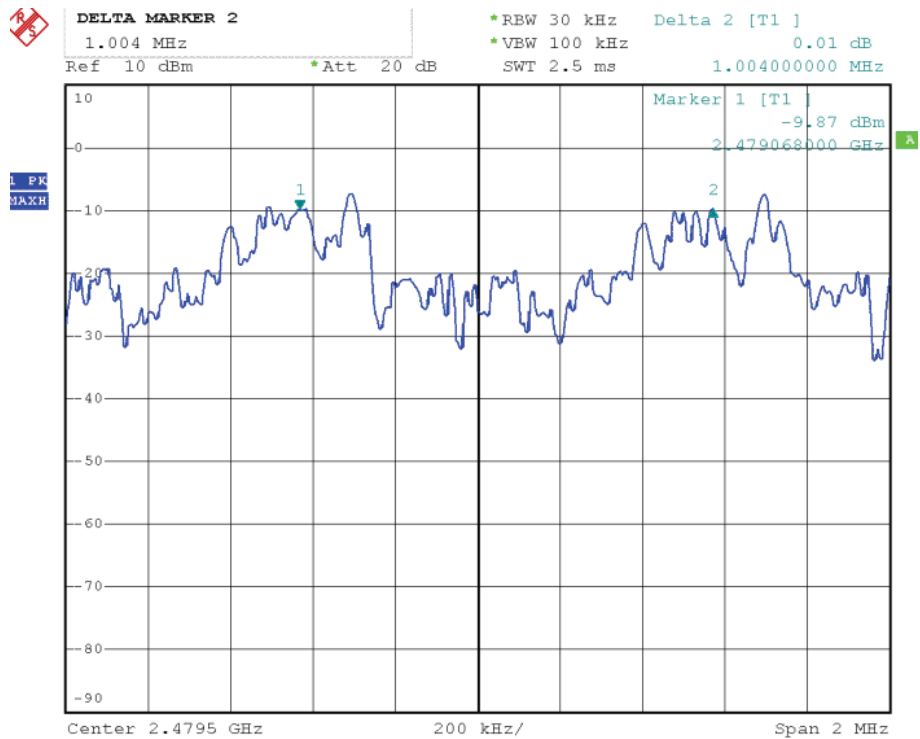
EDR 2M Channel Low



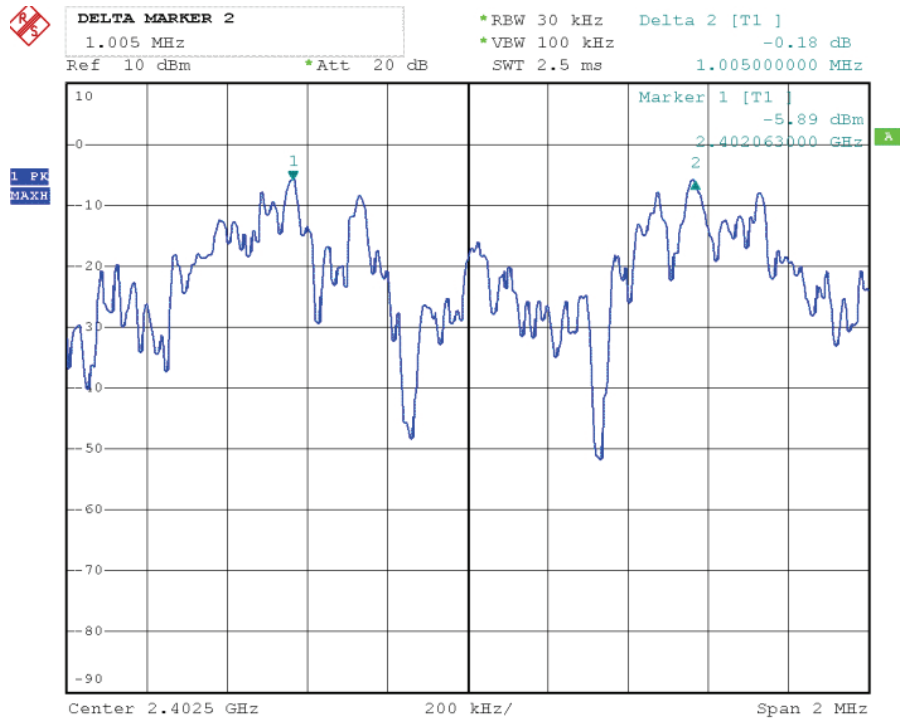
Channel Middle



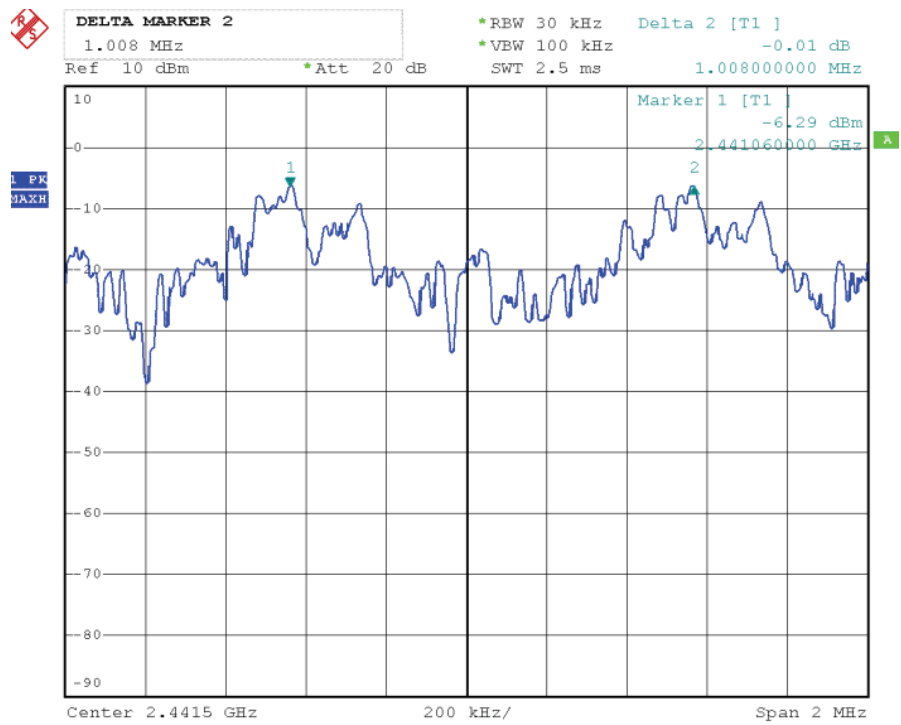
Channel High



EDR 3M Channel Low



Channel Middle

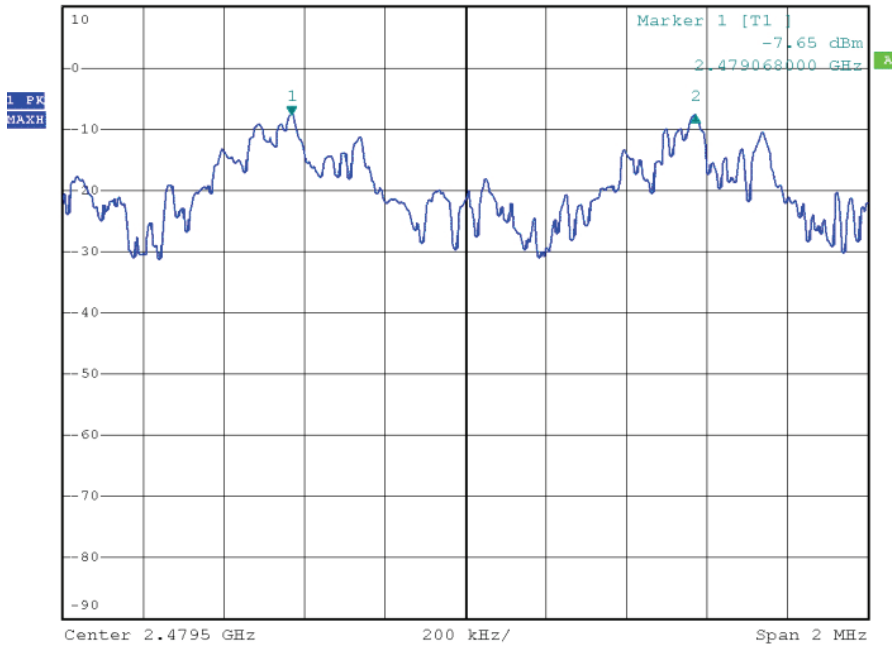


Channel High



DELTA MARKER 2
1.004 MHz
Ref 10 dBm *Att 20 dB

*RBW 30 kHz Delta 2 [T1]
*VBW 100 kHz -0.04 dB
SWT 2.5 ms 1.004000000 MHz

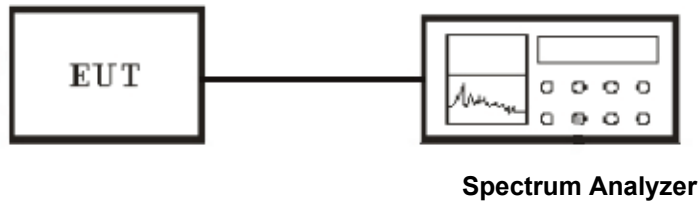


7. Test of Number of Hopping Frequency

7.1 Applicable Standard

Section 15.247(a)(1)(iii): For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 15 non-overlapping hopping channels. Frequency hopping system which use fewer than 75 hopping frequencies may employ intelligent hopping techniques to avoid interference to other transmissions. Frequency hopping system may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 non-overlapping channels are used.

7.2 EUT Setup



7.3 Test Equipment List and Details

See section 2.5.

7.4 Test Procedure

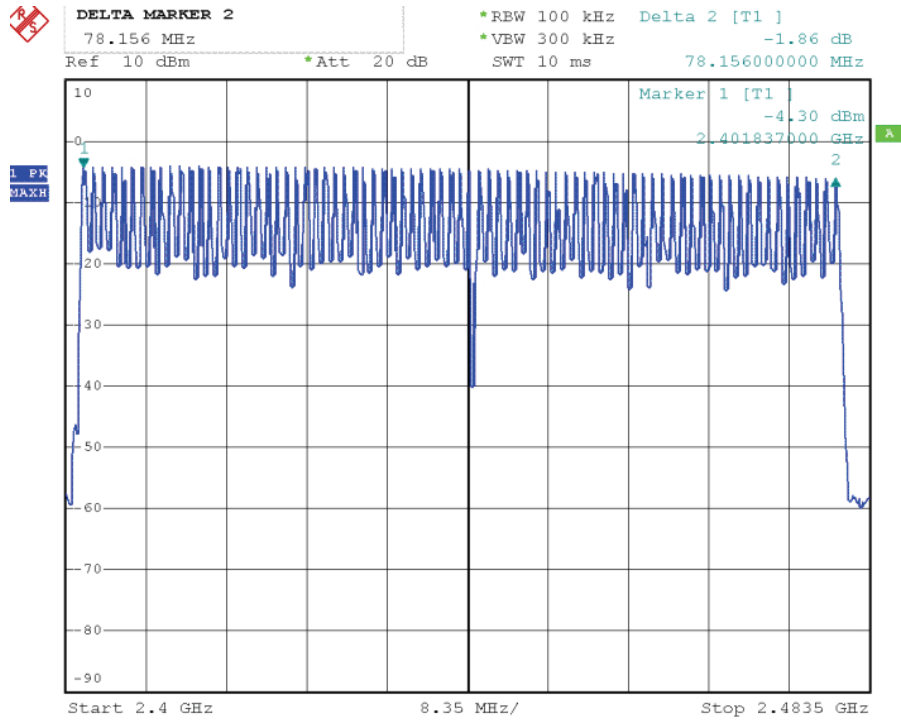
1. The transmitter output was connected to the spectrum analyzer through an attenuator.
2. Set RBW of spectrum analyzer to 100KHz and VBW to 100KHz.
3. Set Detector to Peak, Trace to Max Hold and Sweep Time is Auto.
4. Observe frequency hopping in 2400MHz~2483.5MHz, there are at least 32 non-overlapping channels.
5. Repeat above 1~3 points for the middle and highest channel of the EUT.

7.5 Test Result

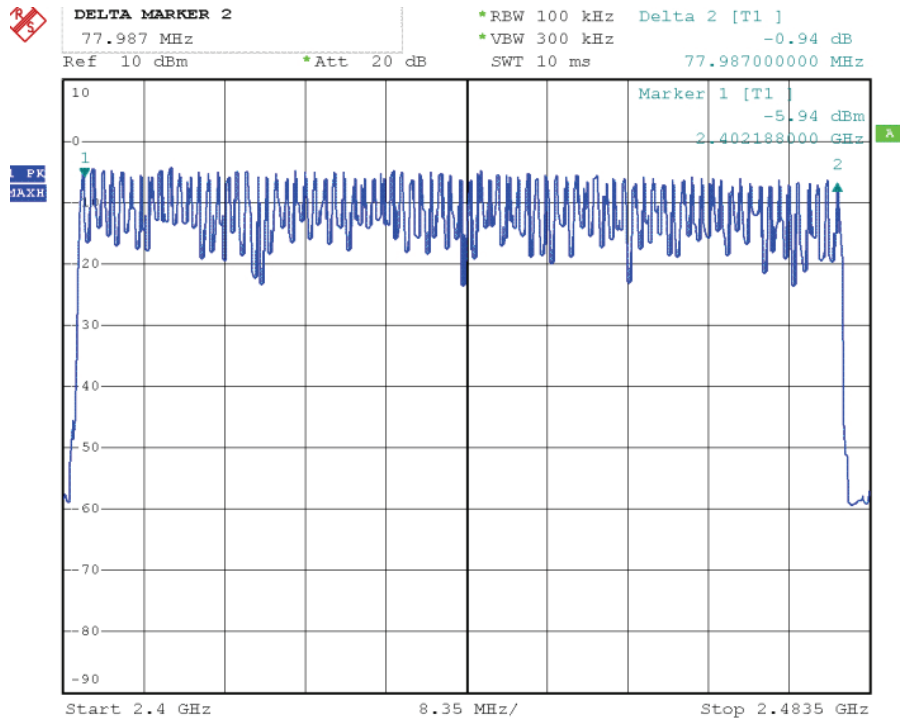
Temperature (°C) : 22~23	EUT: 3D Glasses
Humidity (%RH) : 50~54	M/N: G15-BT
Barometric Pressure (mbar) : 950~1000	Operation Condition: Tx Mode

Modulation Type	Frequency (MHz)	Number of Hopping Channels	Min. Limit
GFSK	2402~2480	79	≥ 15
Pi/4 DQPSK	2402~2480	79	≥ 15
8-DPSK	2402~2480	79	≥ 15

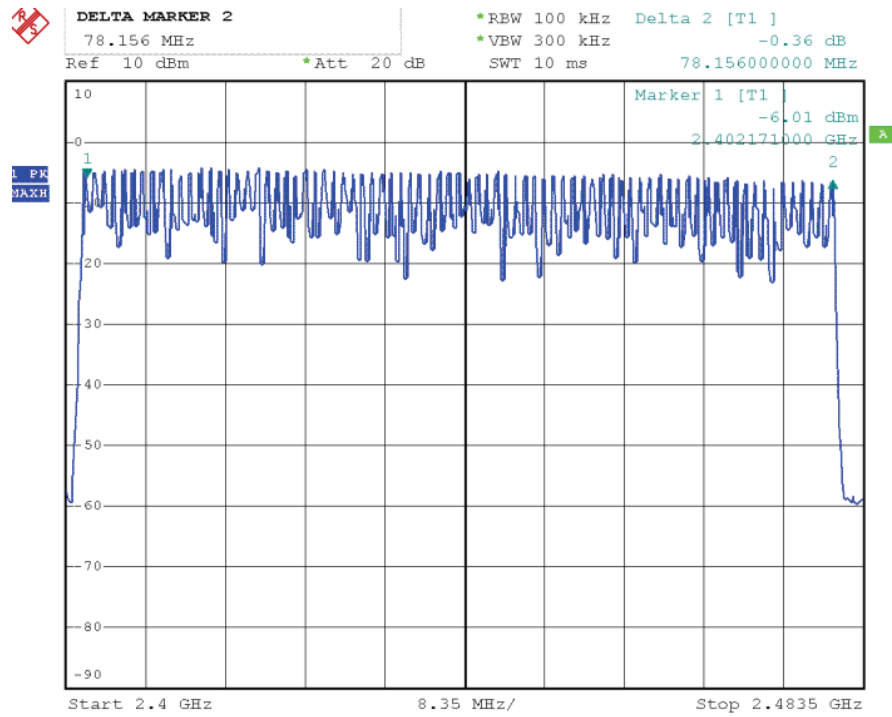
BDR 1M



EDR 2M



EDR 3M

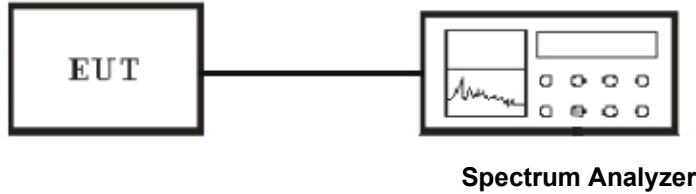


8. Test of Dwell Time of Each Frequency

8.1 Applicable Standard

Section 15.247(a)(1)(iii): For frequency hopping systems operating in the 2400-2483.5 MHz band The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4seconds multiplied by the number of hopping channels employed.

8.2 EUT Setup



8.3 Test Equipment List and Details

See section 2.5.

8.4 Test Procedure

1. The transmitter output was connected to the spectrum analyzer through an attenuator.
2. Set RBW of spectrum analyzer to 1000kHz and VBW to 1000kHz.
3. Set Detector to Peak, Trace to Max Hold and Sweep Time is more than once pulse time.
4. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
5. Measure the maximum time duration of one single pulse.

8.5 Test Result

Temperature (°C) : 22~23	EUT: 3D Glasses
Humidity (%RH) : 50~54	M/N: G15-BT
Barometric Pressure (mbar) : 950~1000	Operation Condition: Tx Mode

DH1

Dwell time= $t \cdot (1.6/2/79) \cdot 31.6$

DH3

Dwell time= $t \cdot (1.6/4/79) \cdot 31.6$

DH5

Dwell time= $t \cdot (1.6/6/79) \cdot 31.6$

**BDR 1M
Low Channel**

Modulation Type		Reading (ms)	Dwell Time (ms)	Limit (ms)
GFSK	DH1	0.388	124.16	400
GFSK	DH3	1.648	263.68	400
GFSK	DH5	2.912	310.61	400

Middle Channel

Modulation Type		Reading (ms)	Dwell Time (ms)	Limit (ms)
GFSK	DH1	0.388	124.16	400
GFSK	DH3	1.648	263.68	400
GFSK	DH5	2.912	310.61	400

High Channel

Modulation Type		Reading (ms)	Dwell Time (ms)	Limit (ms)
GFSK	DH1	0.388	124.16	400
GFSK	DH3	1.648	263.68	400
GFSK	DH5	2.912	310.61	400

**EDR 2M
Low Channel**

Modulation Type		Reading (ms)	Dwell Time (ms)	Limit (ms)
Pi/4 DQPSK	2DH1	0.394	126.08	400
Pi/4 DQPSK	2DH3	1.660	265.60	400
Pi/4 DQPSK	2DH5	2.912	310.61	400

Middle Channel

Modulation Type		Reading (ms)	Dwell Time (ms)	Limit (ms)
Pi/4 DQPSK	2DH1	0.394	126.08	400
Pi/4 DQPSK	2DH3	1.660	265.60	400
Pi/4 DQPSK	2DH5	2.912	310.61	400

High Channel

Modulation Type		Reading (ms)	Dwell Time (ms)	Limit (ms)
Pi/4 DQPSK	2DH1	0.394	126.08	400
Pi/4 DQPSK	2DH3	1.660	265.60	400
Pi/4 DQPSK	2DH5	2.912	310.61	400

**EDR 3M
Low Channel**

Modulation Type		Reading (ms)	Dwell Time (ms)	Limit (ms)
8-DPSK	3DH1	0.394	126.08	400
8-DPSK	3DH3	1.652	264.32	400
8-DPSK	3DH5	2.912	310.61	400

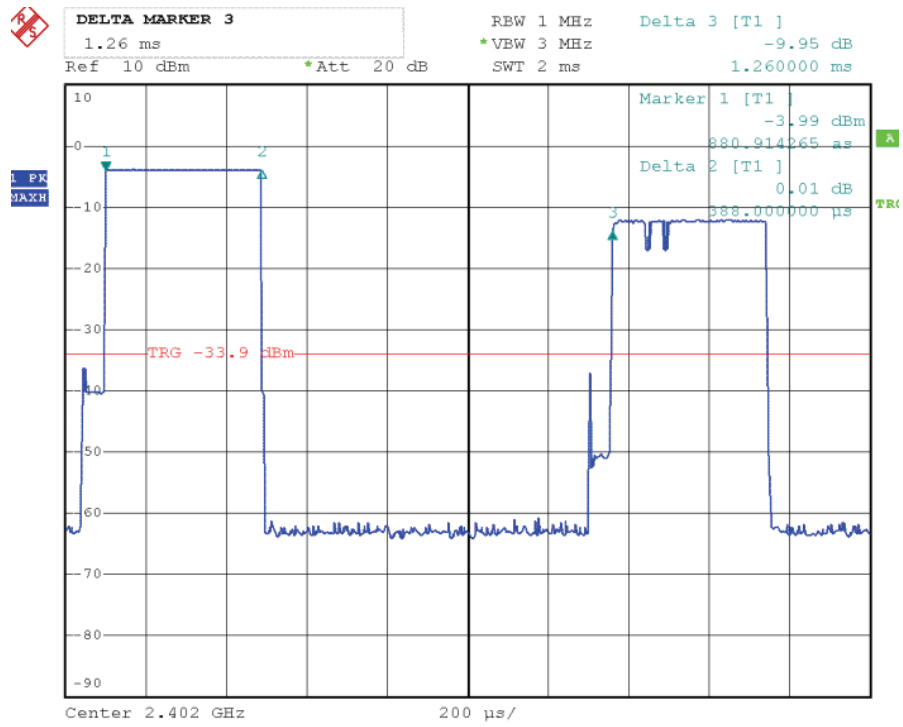
Middle Channel

Modulation Type		Reading (ms)	Dwell Time (ms)	Limit (ms)
8-DPSK	3DH1	0.394	126.08	400
8-DPSK	3DH3	1.652	264.32	400
8-DPSK	3DH5	2.912	310.61	400

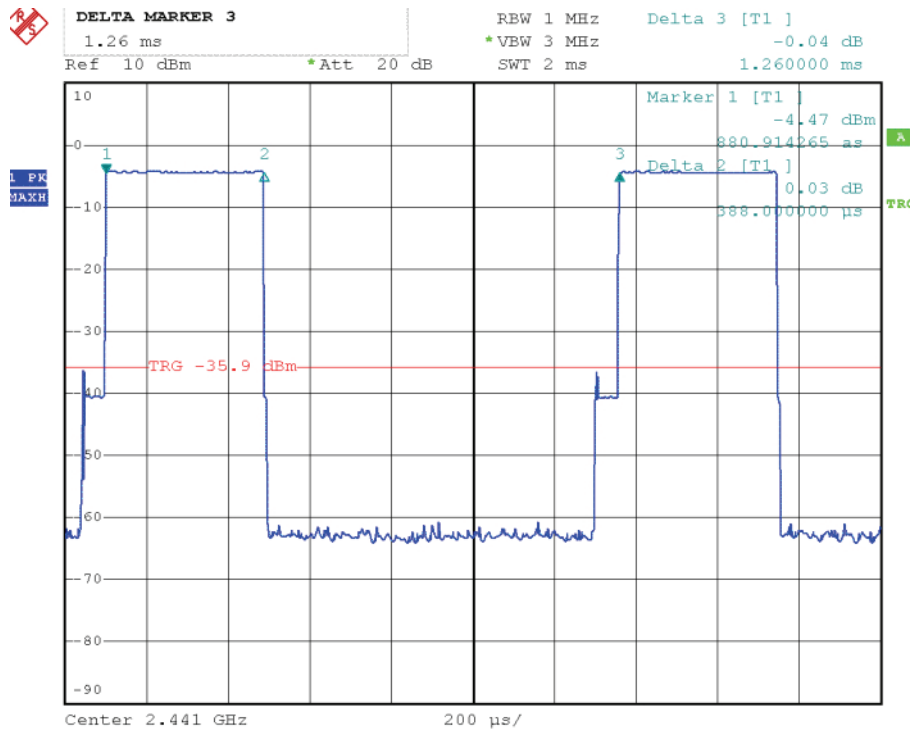
High Channel

Modulation Type		Reading (ms)	Dwell Time (ms)	Limit (ms)
8-DPSK	3DH1	0.394	126.08	400
8-DPSK	3DH3	1.652	264.32	400
8-DPSK	3DH5	2.912	310.61	400

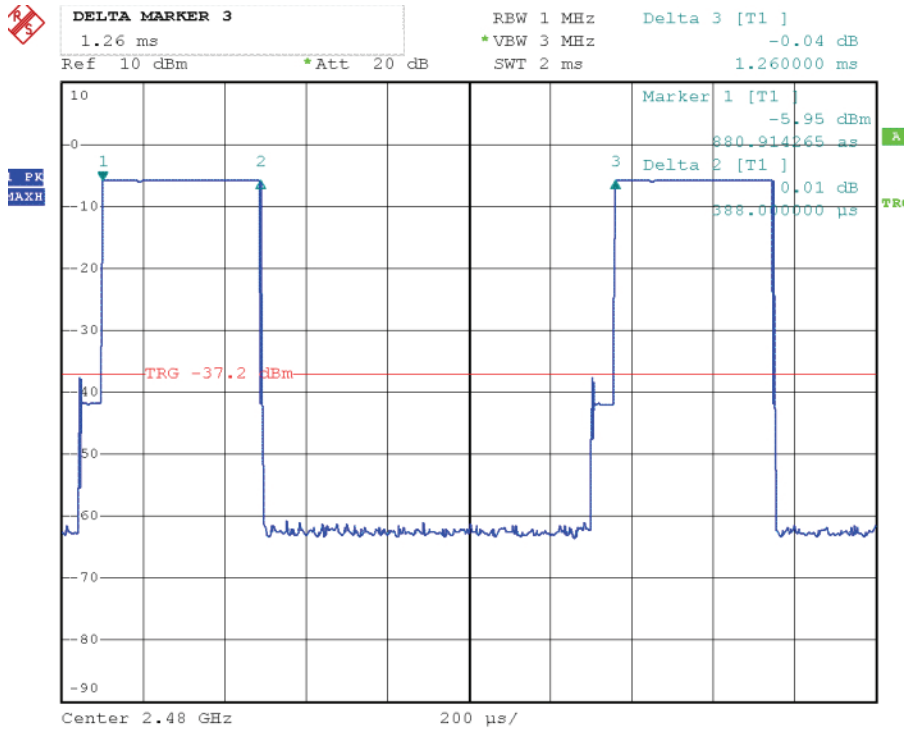
**BDR 1M DH1
Channel Low**



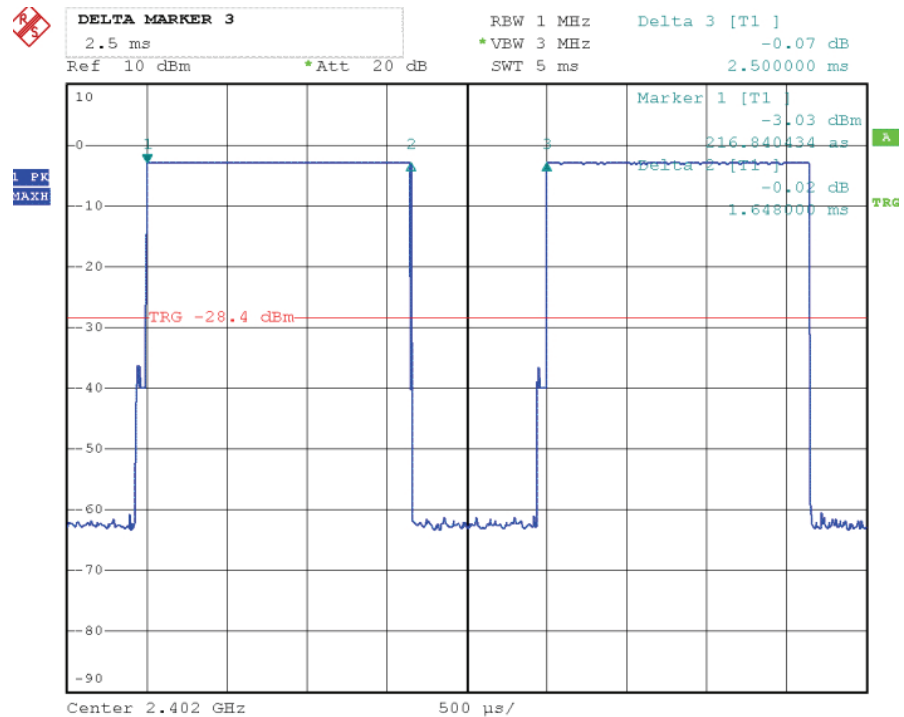
Channel Middle



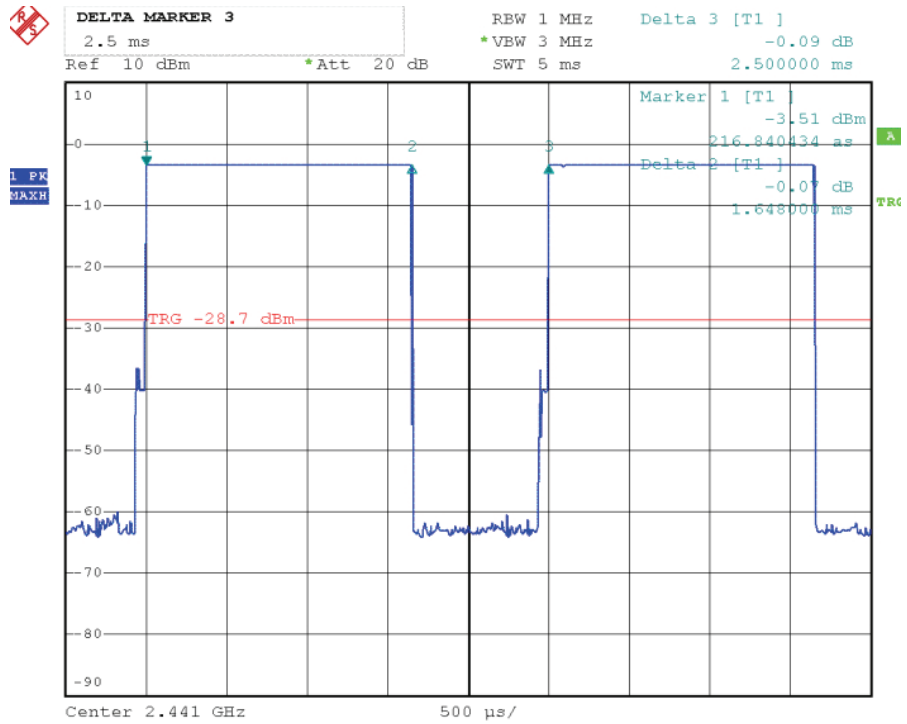
Channel High



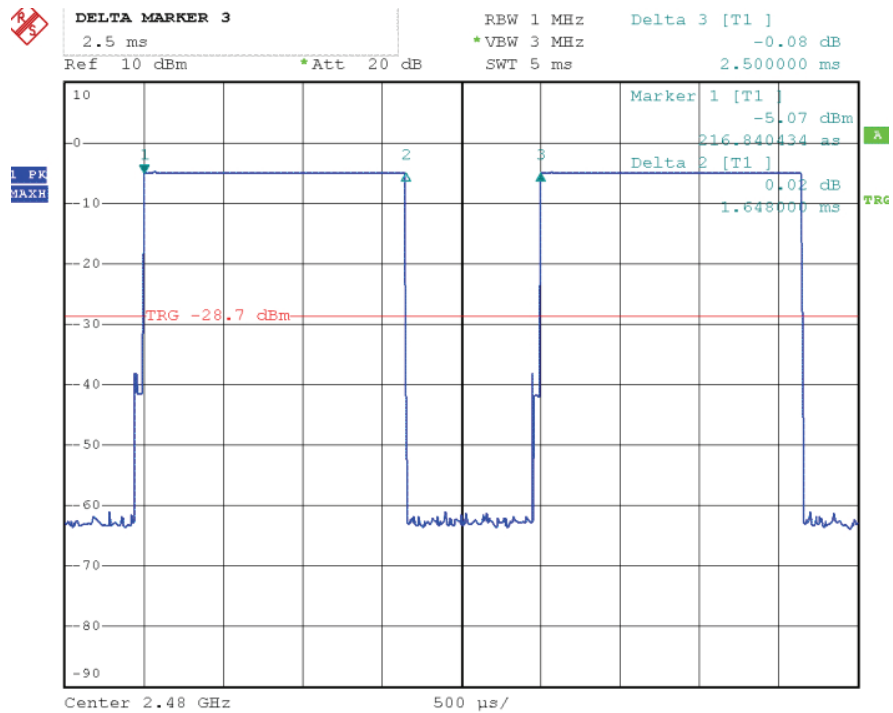
BDR 1M DH3 Channel Low



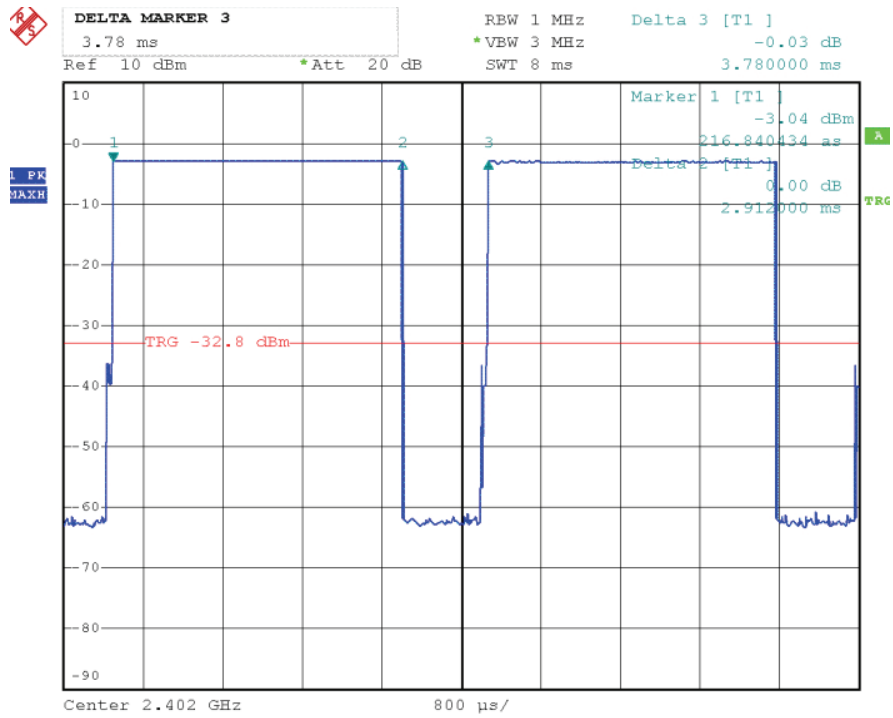
Channel Middle



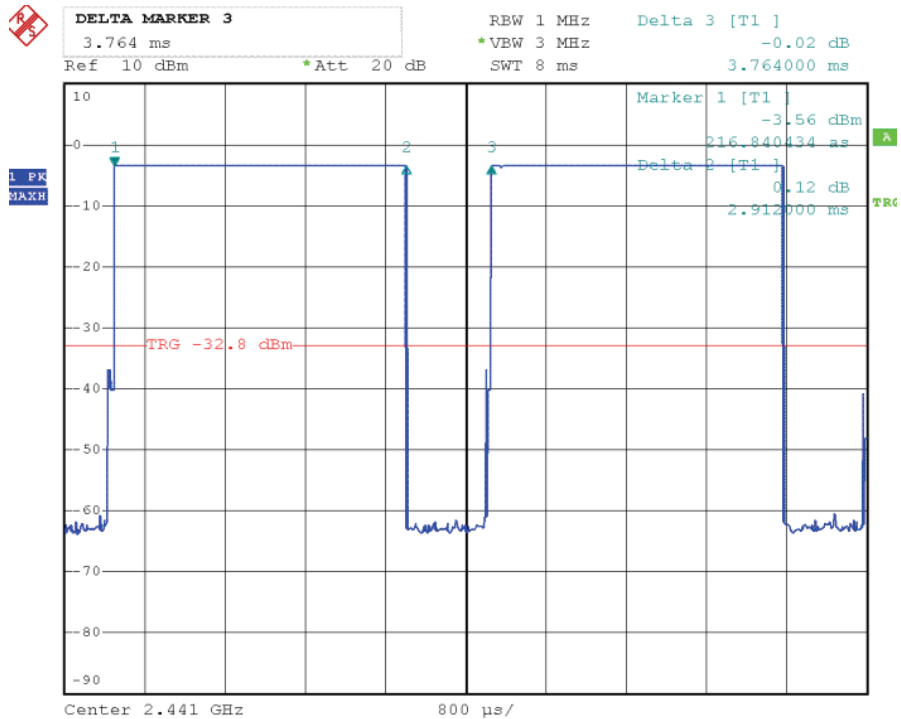
Channel High



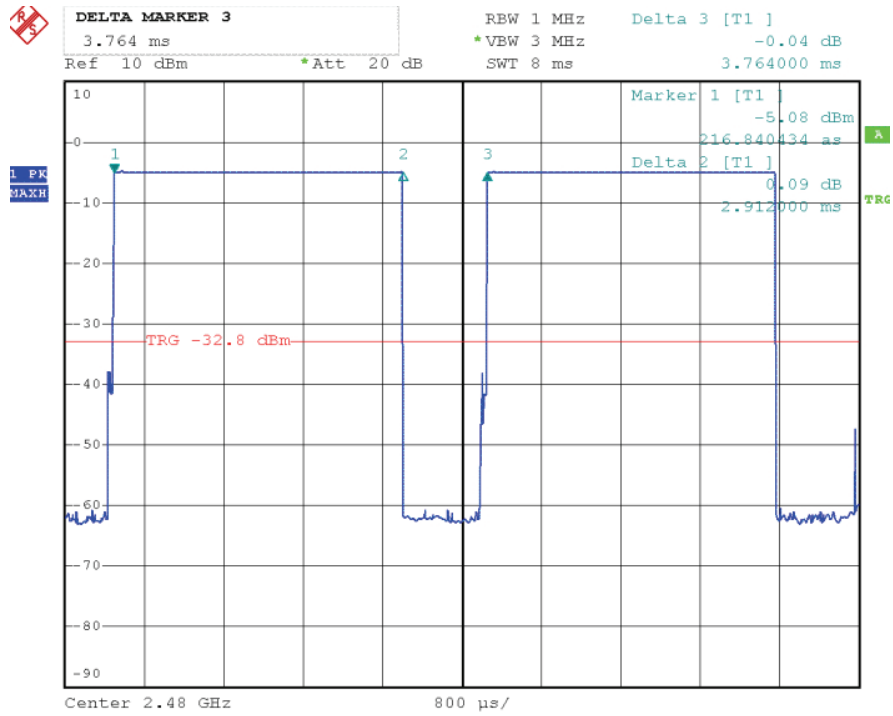
**BDR 1M DH5
Channel Low**



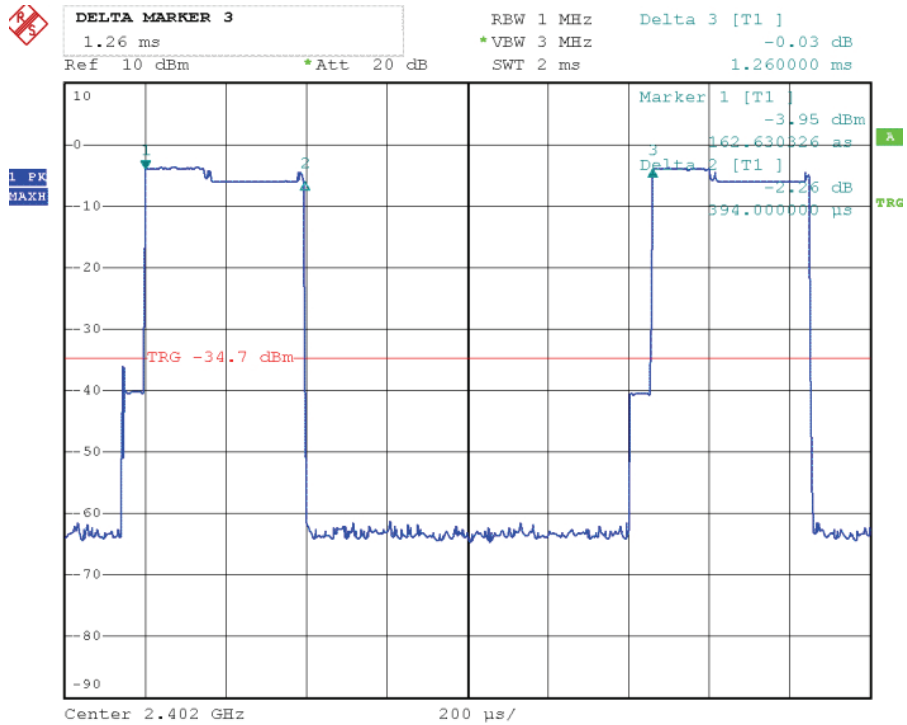
Channel Middle



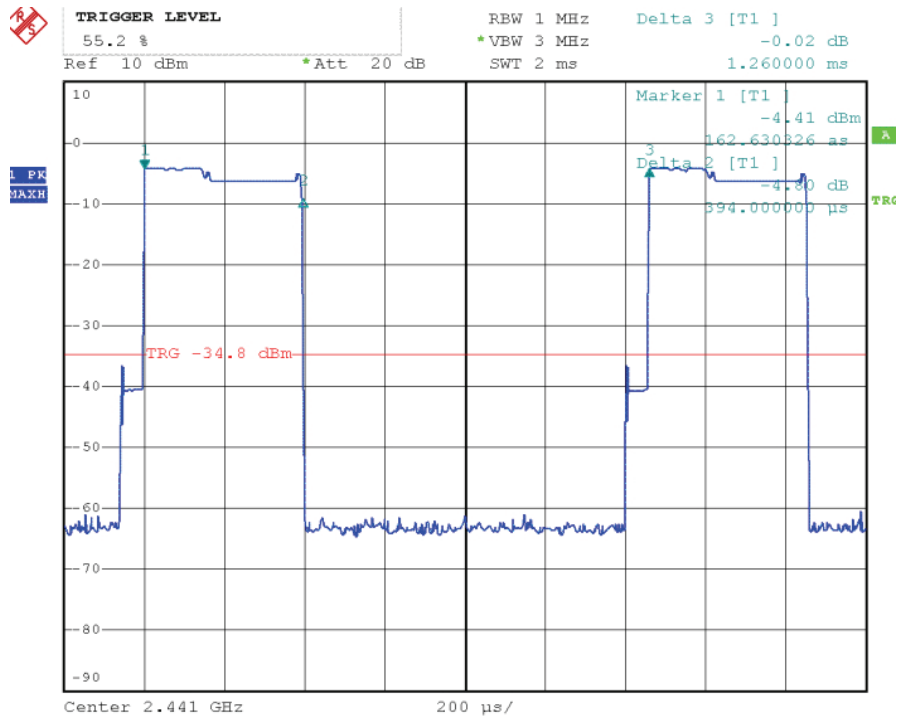
Channel High



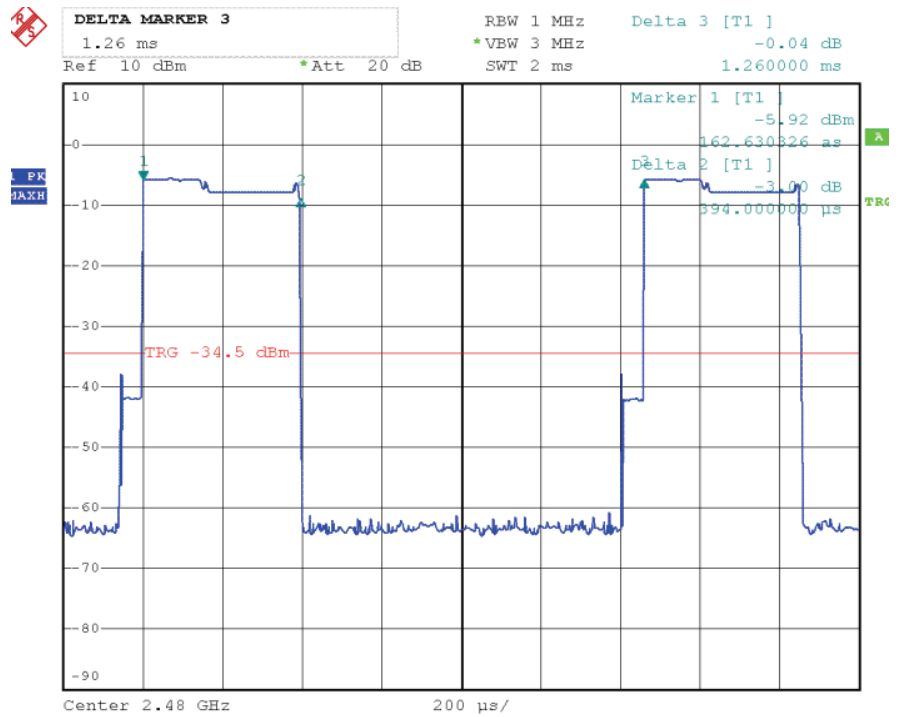
EDR 2M 2DH1 Channel Low



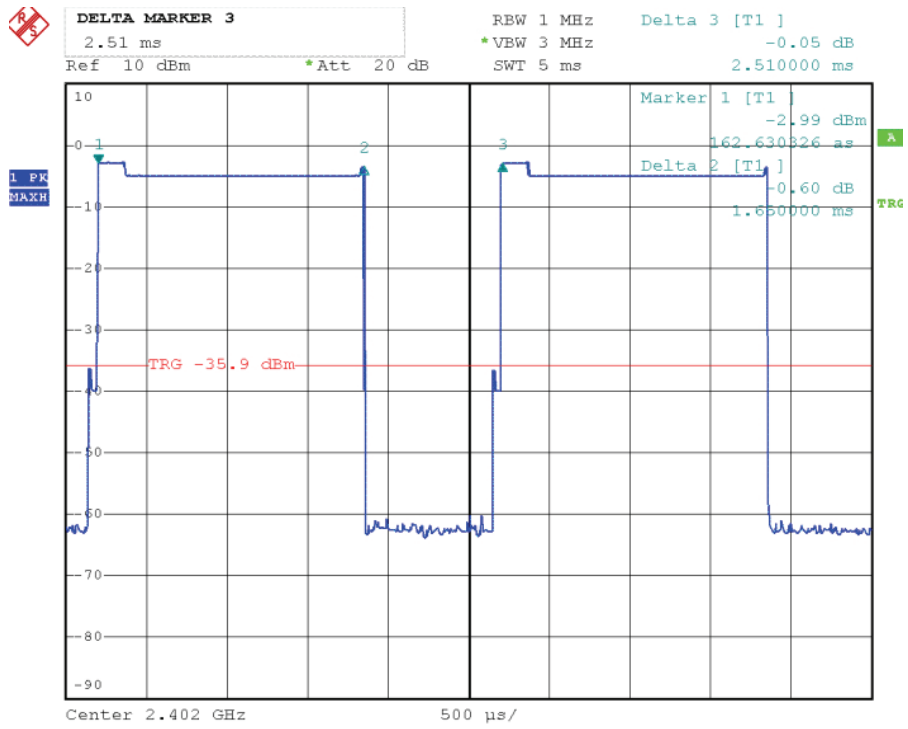
Channel Middle



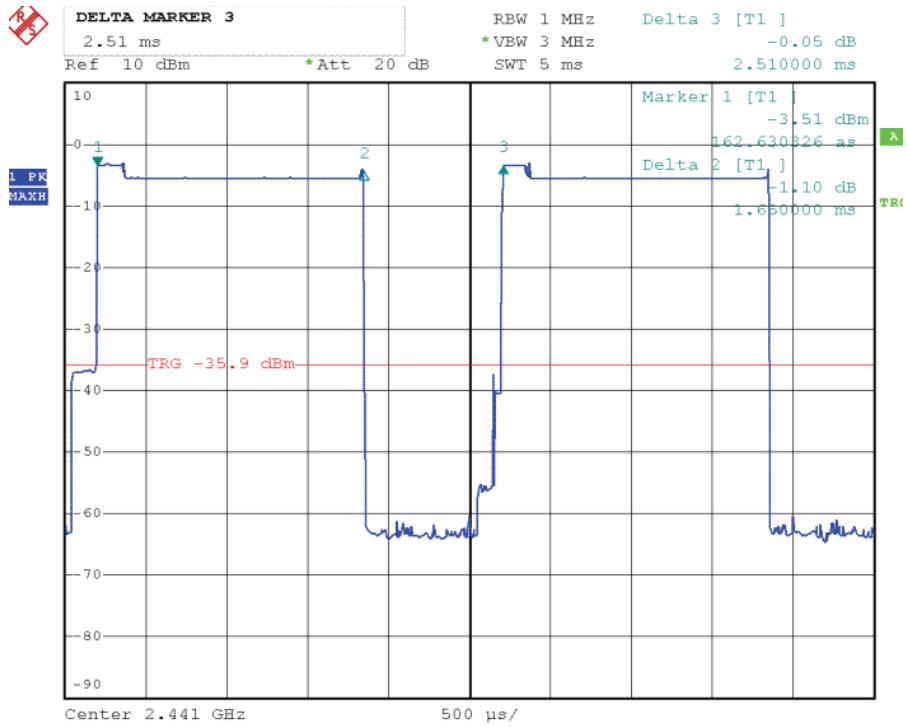
Channel High



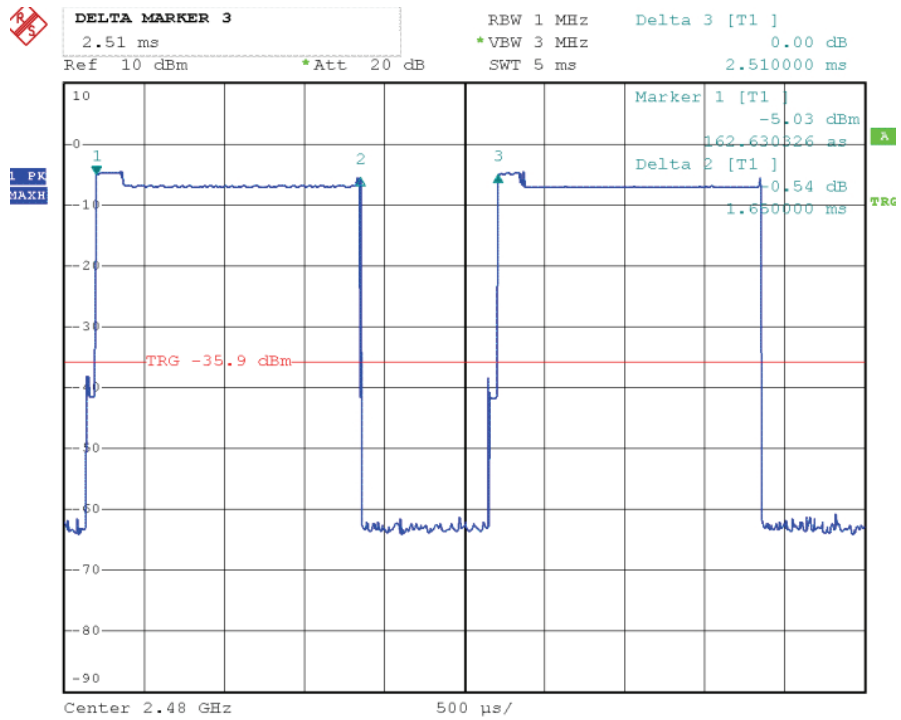
**EDR 2M 2DH3
Channel Low**



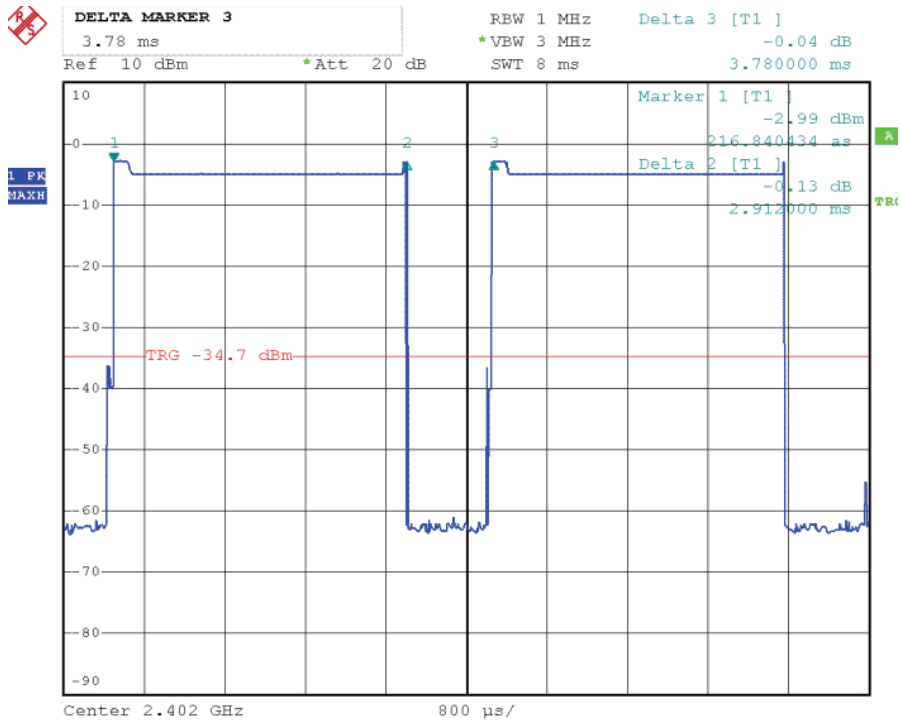
Channel Middle



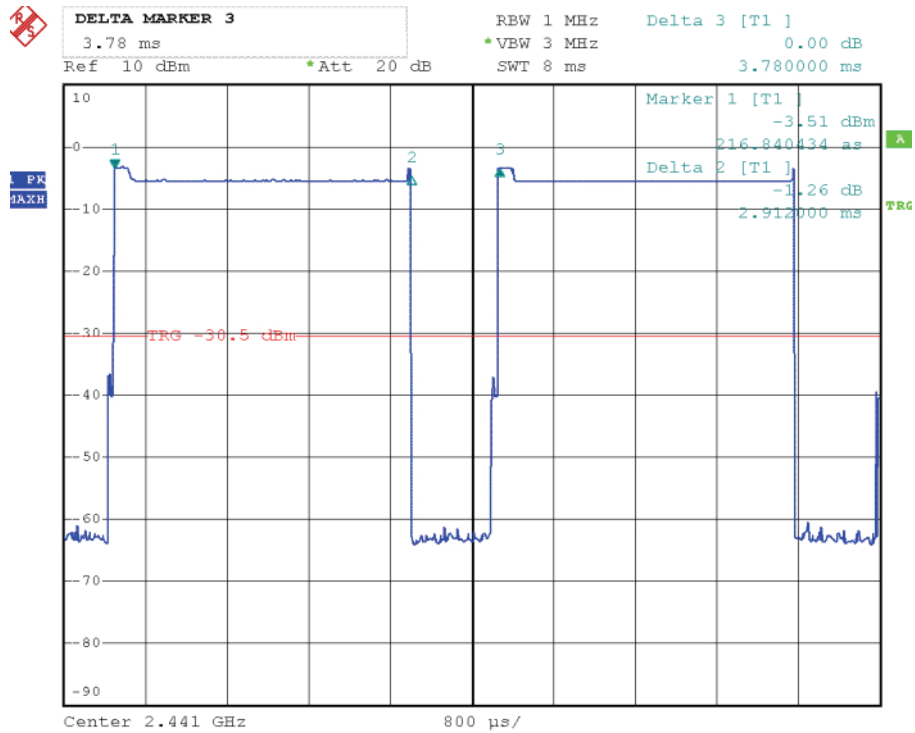
Channel High



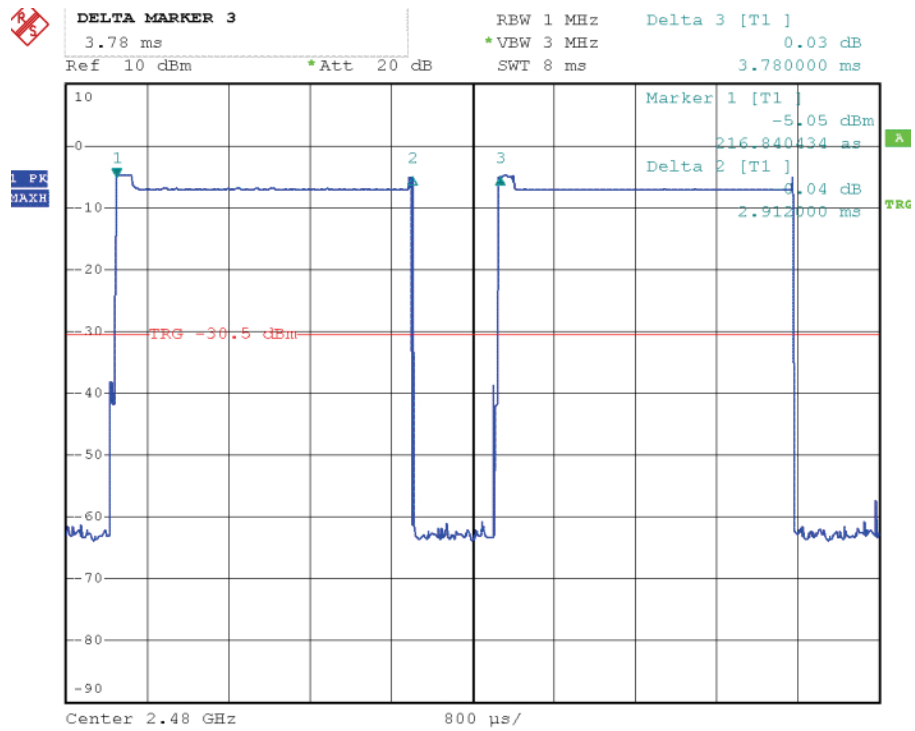
EDR 2M 2DH5 Channel Low



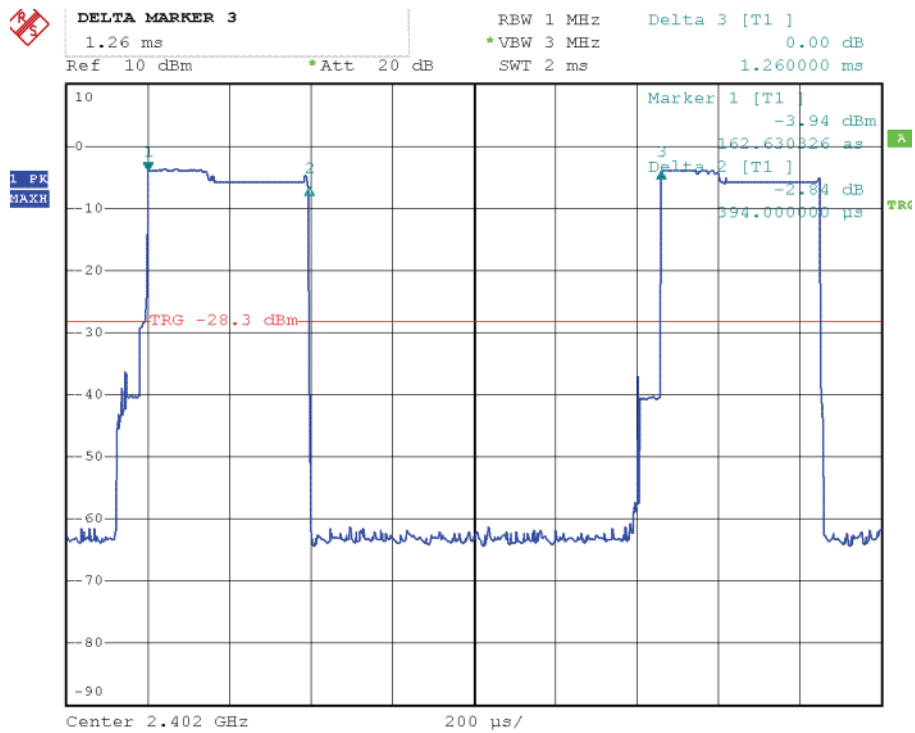
Channel Middle



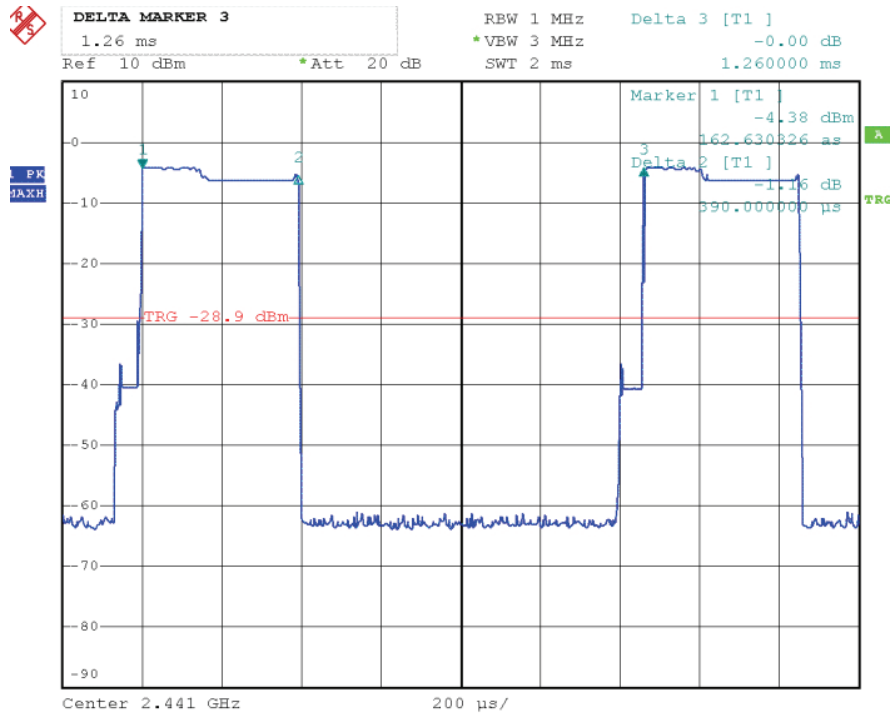
Channel High



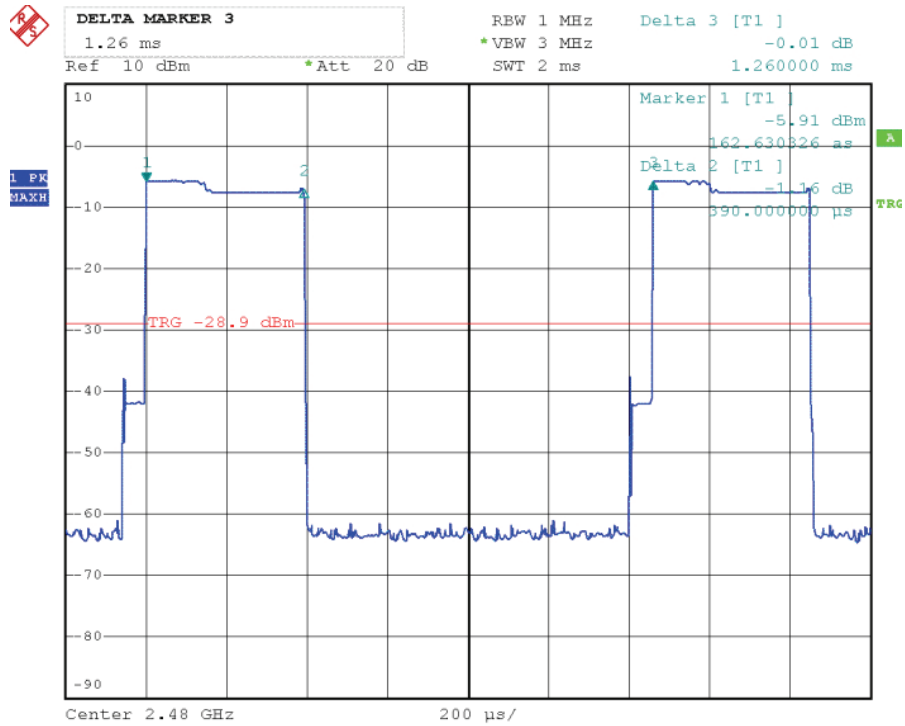
**EDR 3M 3DH1
Channel Low**



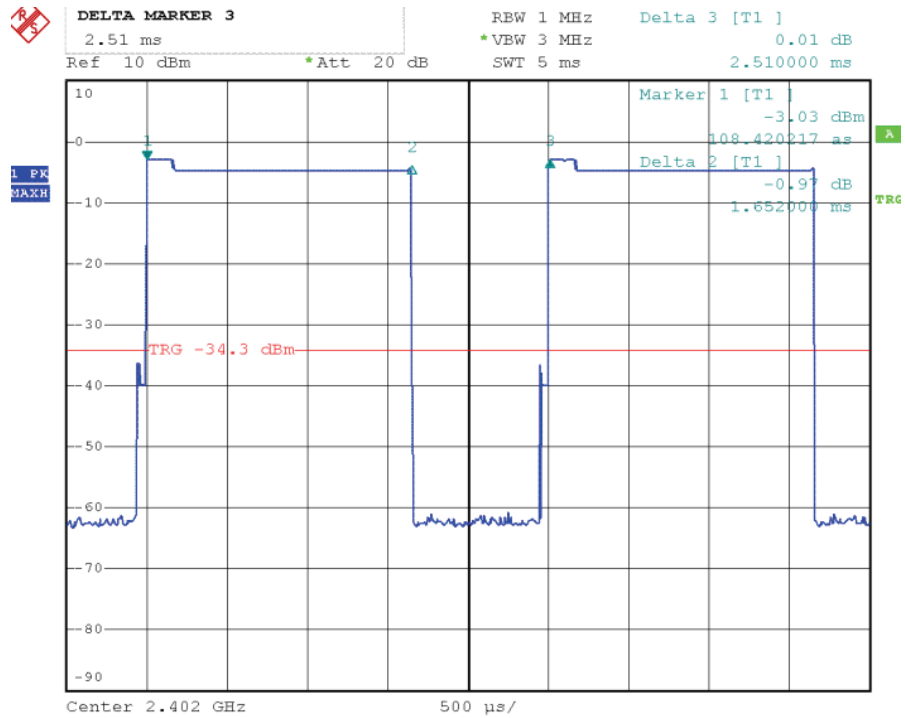
Channel Middle



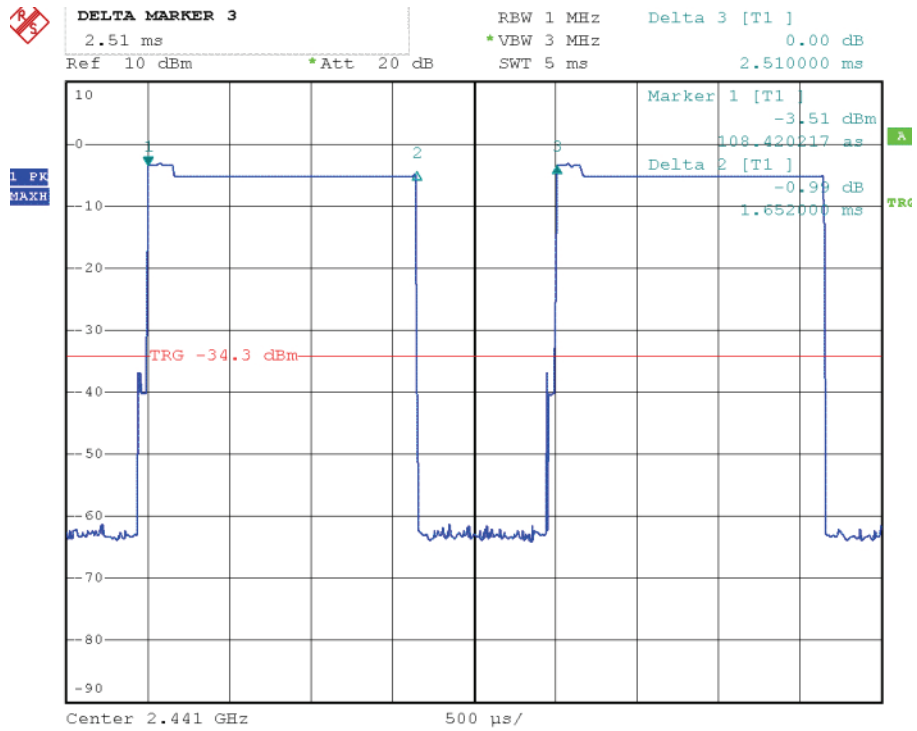
Channel High



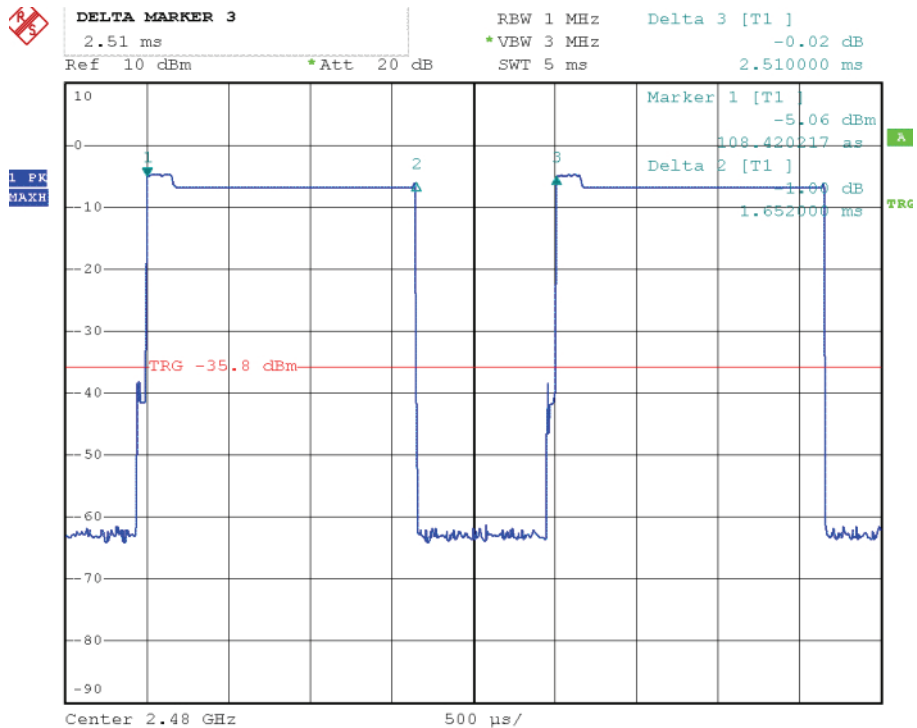
EDR 3M 3DH3 Channel Low



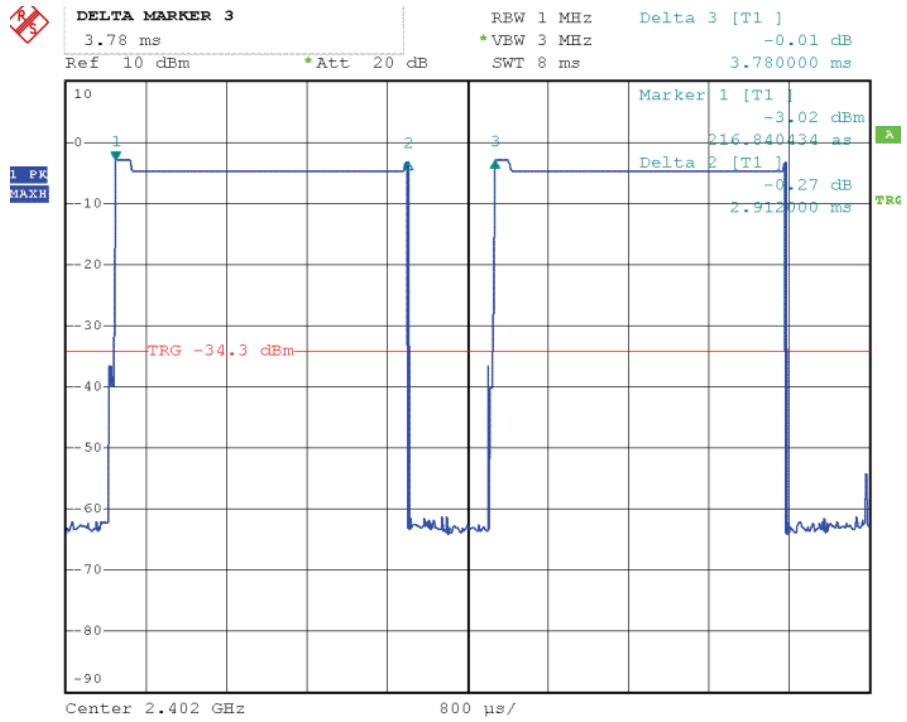
Channel Middle



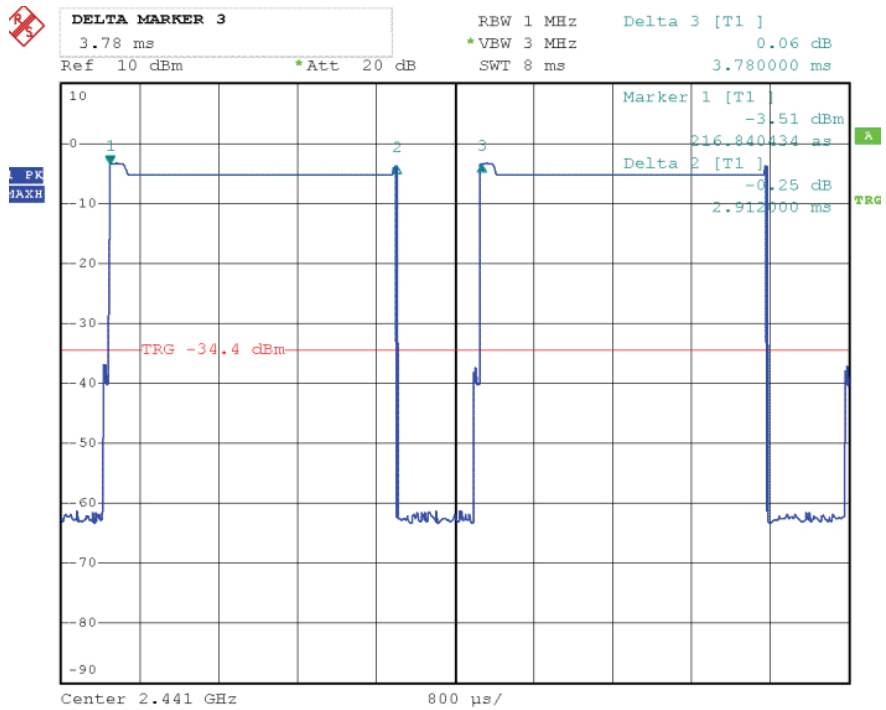
Channel High



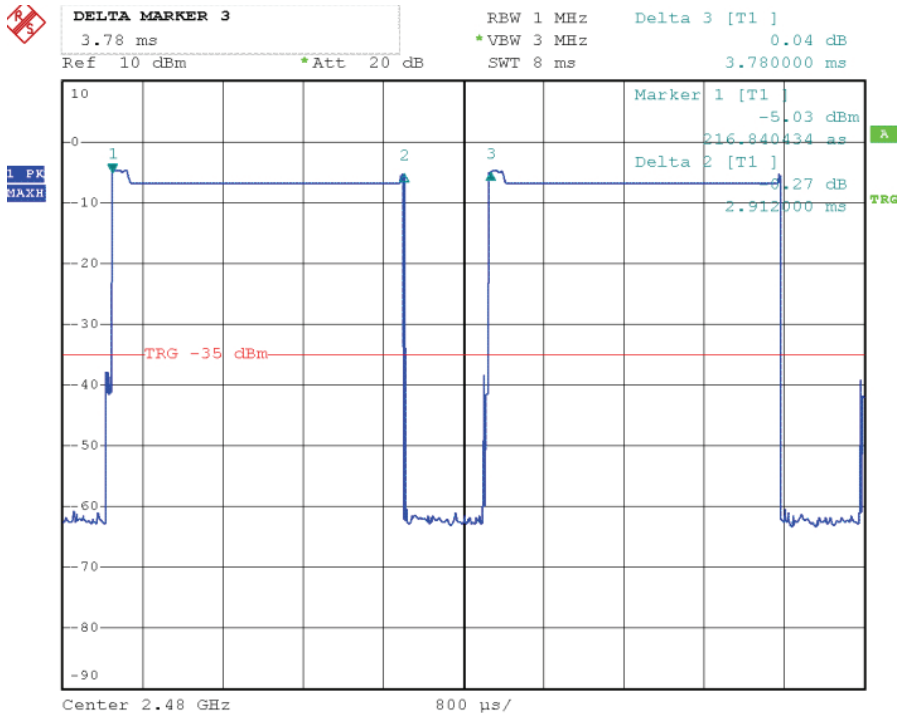
**EDR 3M 3DH5
Channel Low**



Channel Middle



Channel High

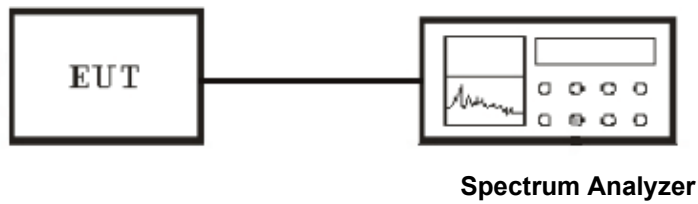


9. Test of Maximum Peak Output Power

9.1 Applicable Standard

Section 15.247(b)(1): For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels and The maximum peak output power shall not exceed 1 watt. For all other frequency hopping systems in this frequency band, The maximum peak output power shall not exceed 0.125 watt.

9.2 EUT Setup



9.3 Test Equipment List and Details

See section 2.5.

9.4 Test Procedure

1. The transmitter output was connected to the peak power meter and recorded the peak value.
2. Peak power meter parameter set to auto attenuator and filter is the same as.
3. Repeated the 1 for the middle and highest channel of the EUT.

9.5 Test Result

Temperature (°C) : 22~23	EUT: 3D Glasses
Humidity (%RH) : 50~54	M/N: G15-BT
Barometric Pressure (mbar) : 950~1000	Operation Condition: Tx Mode

BDR 1M

Modulation Type	Channel No.	Frequency (MHz)	Output Power (dBm)	Limits (dBm)	Margin (dB)
GFSK	Low	2402.00	-3.65	21	-24.65
GFSK	Middle	2441.00	-4.43	21	-25.43
GFSK	High	2480.00	-5.72	21	-26.72

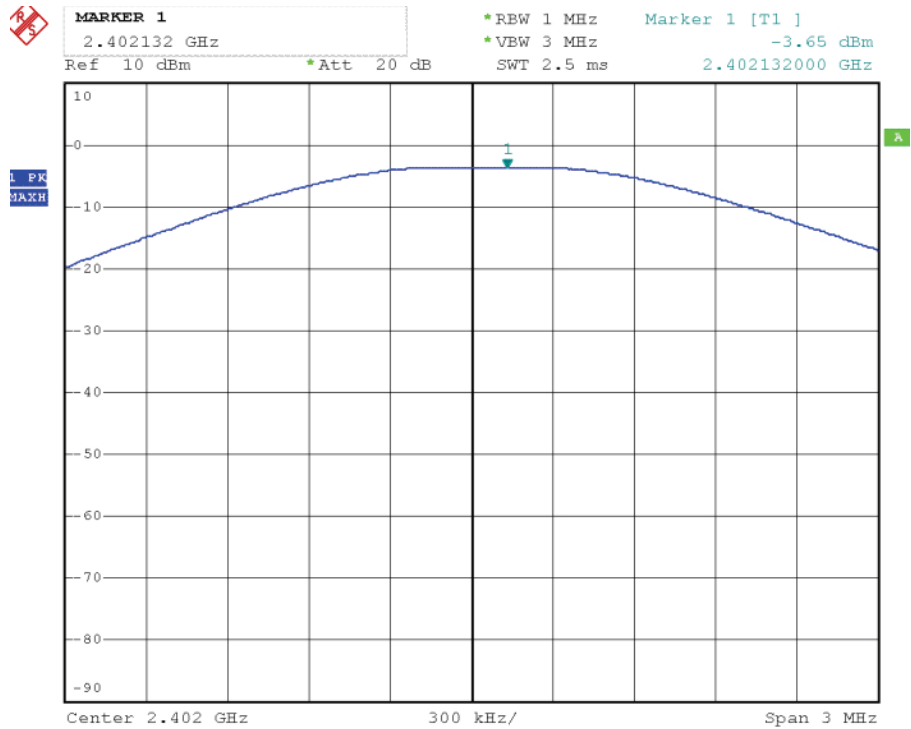
EDR 2M

Modulation Type	Channel No.	Frequency (MHz)	Output Power (dBm)	Limits (dBm)	Margin (dB)
Pi/4 DQPSK	Low	2402.00	-3.87	21	-24.87
Pi/4 DQPSK	Middle	2441.00	-4.32	21	-25.32
Pi/4 DQPSK	High	2480.00	-5.75	21	-26.75

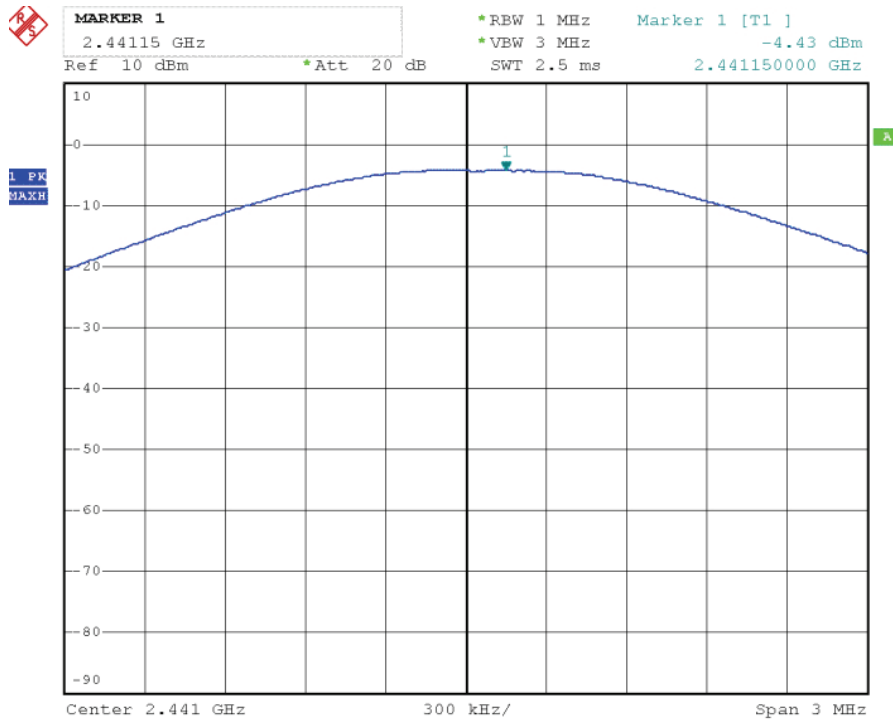
EDR 3M

Modulation Type	Channel No.	Frequency (MHz)	Output Power (dBm)	Limits (dBm)	Margin (dB)
8-DPSK	Low	2402.00	-3.82	21	-24.82
8-DPSK	Middle	2441.00	-4.25	21	-25.25
8-DPSK	High	2480.00	-5.74	21	-26.74

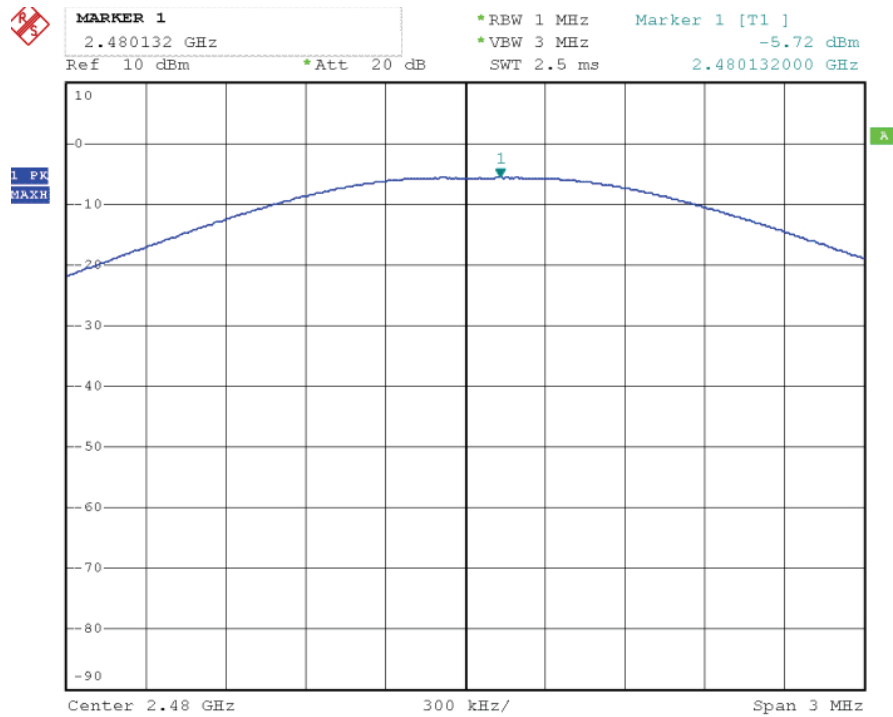
**BDR 1M
Channel Low**



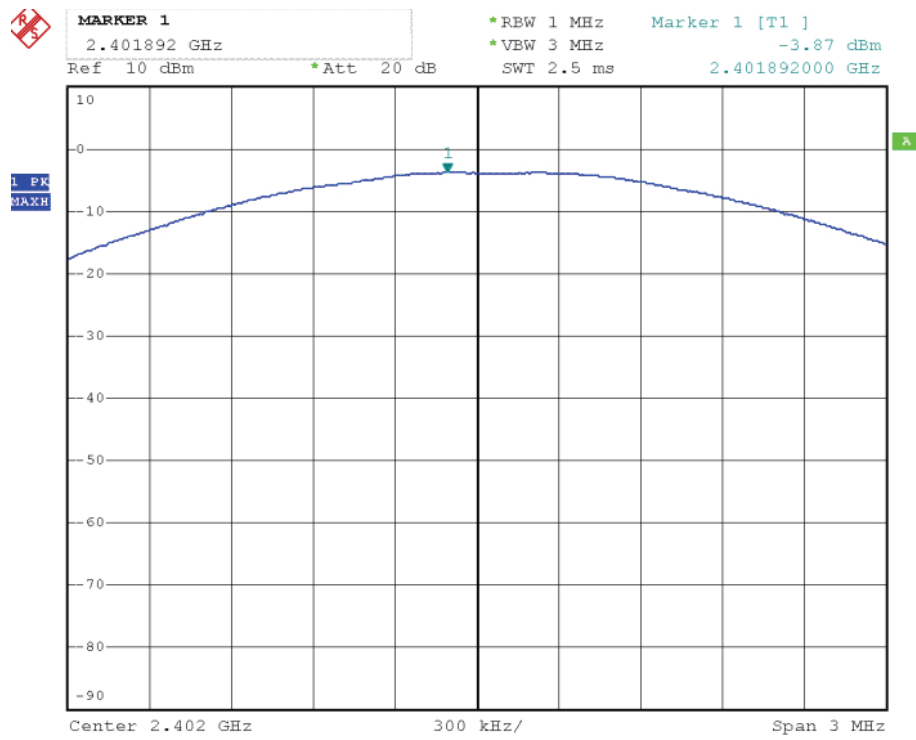
Channel Middle



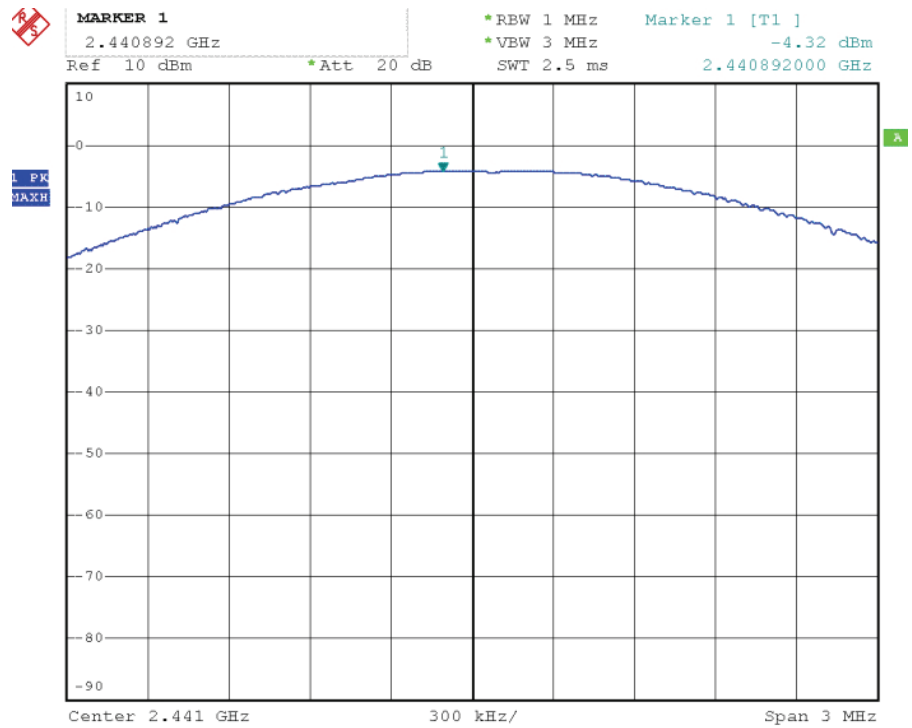
Channel High



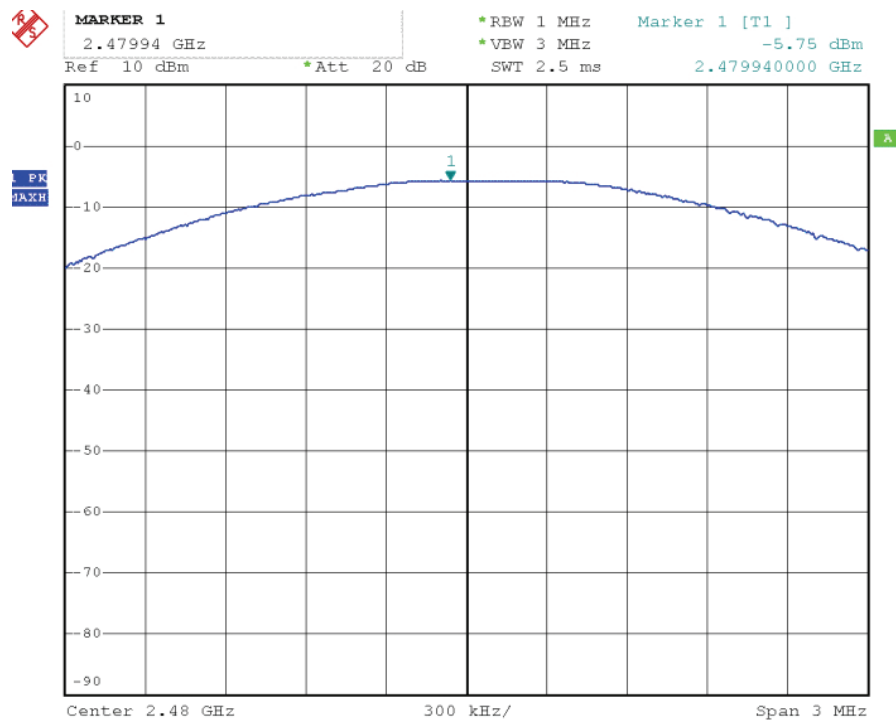
**EDR 2M
Channel Low**



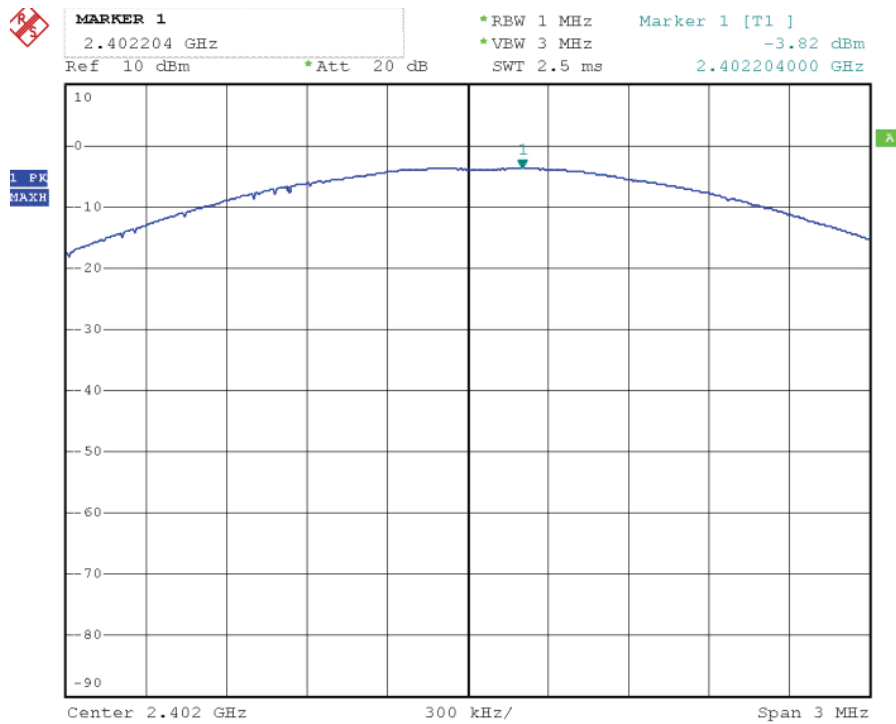
Channel Middle



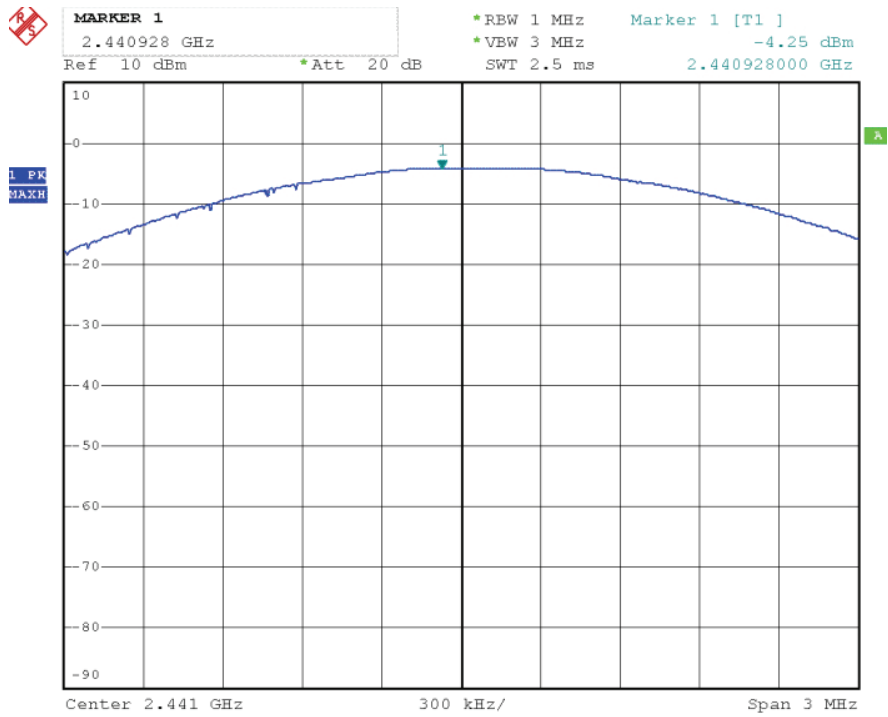
Channel High



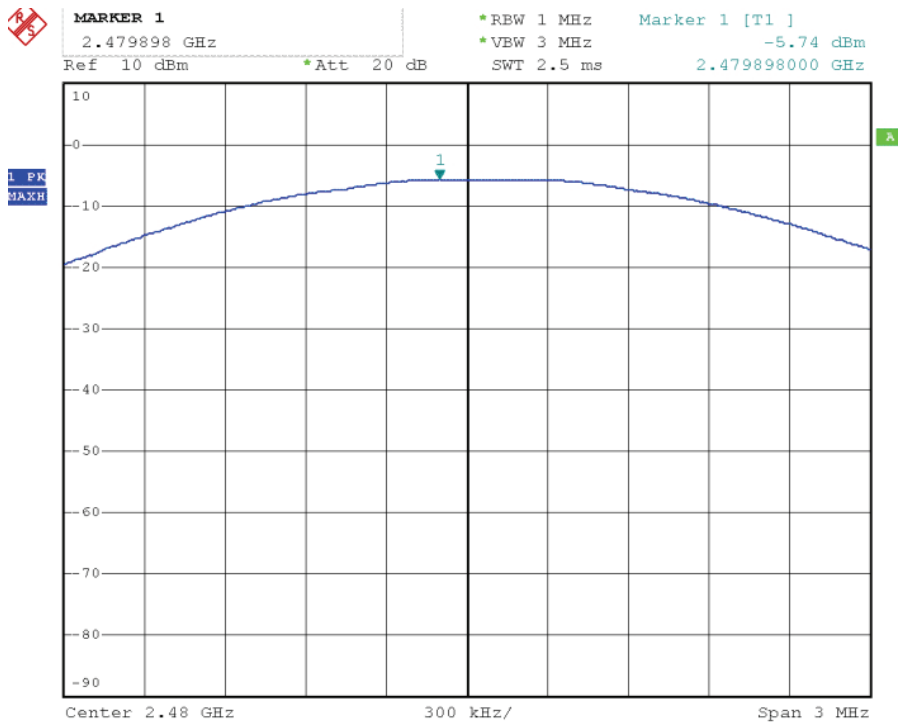
EDR 3M Channel Low



Channel Middle



Channel High



10. Test of Band Edges Emission

10.1 Applicable Standard

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. In addition, radiated emissions that fall in the restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified in Section 15.209.

10.2 EUT Setup

Radiated Measurement Setup

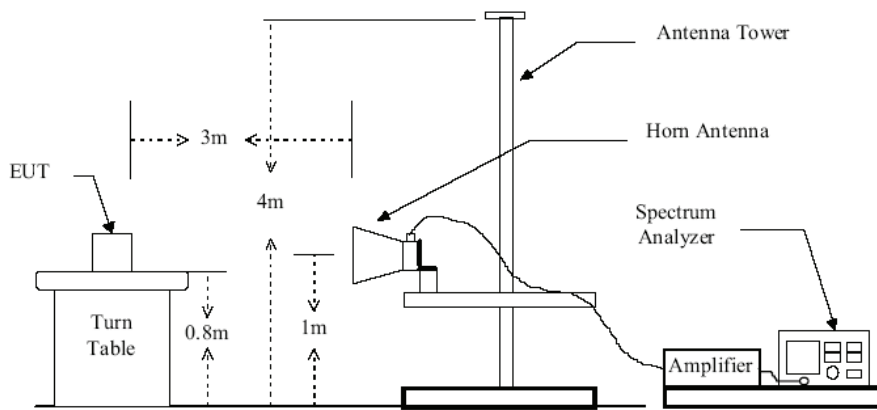
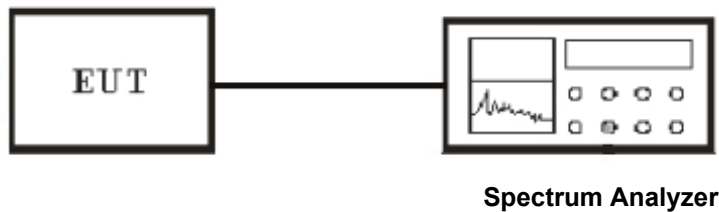


Figure 2 : Frequencies measured above 1 GHz configuration

Conducted Measurement Setup



10.3 Test Equipment List and Details

See section 2.5.

10.4 Test Procedure

Conducted Measurement

1. The transmitter is set to the lowest channel.
2. The transmitter output was connected to the spectrum analyzer via a cable .

3. Set both RBW and VBW of spectrum analyzer to 100KHz with convenient frequency span including 100MHz bandwidth from lower band edge. Then detector set to peak and max hold this trace.
4. The lowest band edges emission was measured and recorded.
5. The transmitter set to the highest channel and repeated 2~4.

Radiated Measurement

1. Configure the EUT according to ANSI C63.4-2003
2. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emission field strength of both horizontal and vertical polarization.
4. For band edge emission, the antenna tower was scan (from 1 M to 4 M) and then the turn table was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. For band edge emission, use 1MHz VBW and 1MHz RBW for reading under AV and use 1MHz VBW and 1MHz RBW for reading under PK.

10.5 Test Result

Temperature (°C) : 22~23	EUT: 3D Glasses
Humidity (%RH) : 50~54	M/N: G15-BT
Barometric Pressure (mbar) : 950~1000	Operation Condition: Tx Mode

Radiated Test Result

Worst Case BDR 1M

Frequency (MHz)	Antenna Polarization	Emission Read Value (dBµV/m)	Limits (dBµV/m)
2389.5	H	34.12	54
2389.5	V	33.45	54
2483.6	H	35.22	54
2483.6	V	33.64	54

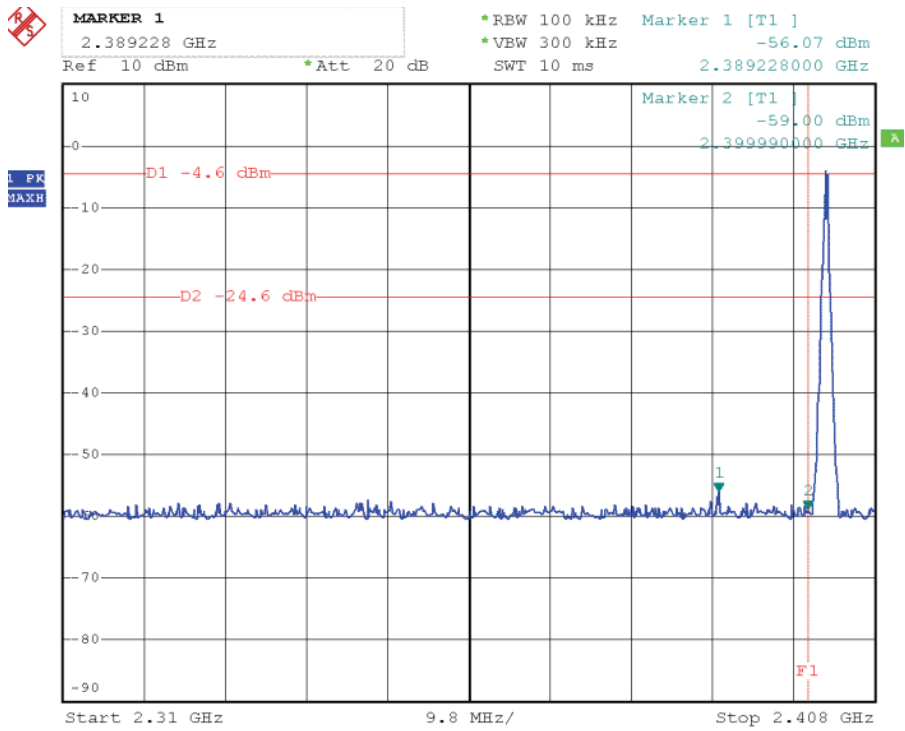
Worst Case EDR 2M

Frequency (MHz)	Antenna Polarization	Emission Read Value (dBµV/m)	Limits (dBµV/m)
2389.4	H	33.43	54
2389.4	V	32.55	54
2483.7	H	35.89	54
2483.7	V	33.65	54

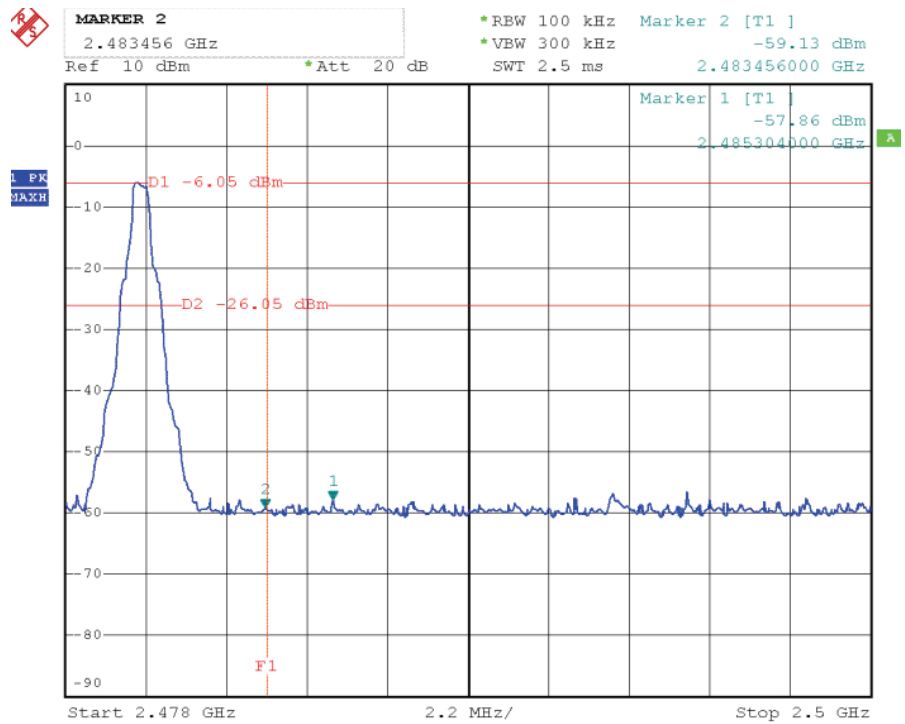
Worst Case EDR 3M

Frequency (MHz)	Antenna Polarization	Emission Read Value (dBμV/m)	Limits (dBμV/m)
2389.5	H	34.66	54
2389.5	V	32.33	54
2483.6	H	35.54	54
2483.6	V	33.56	54

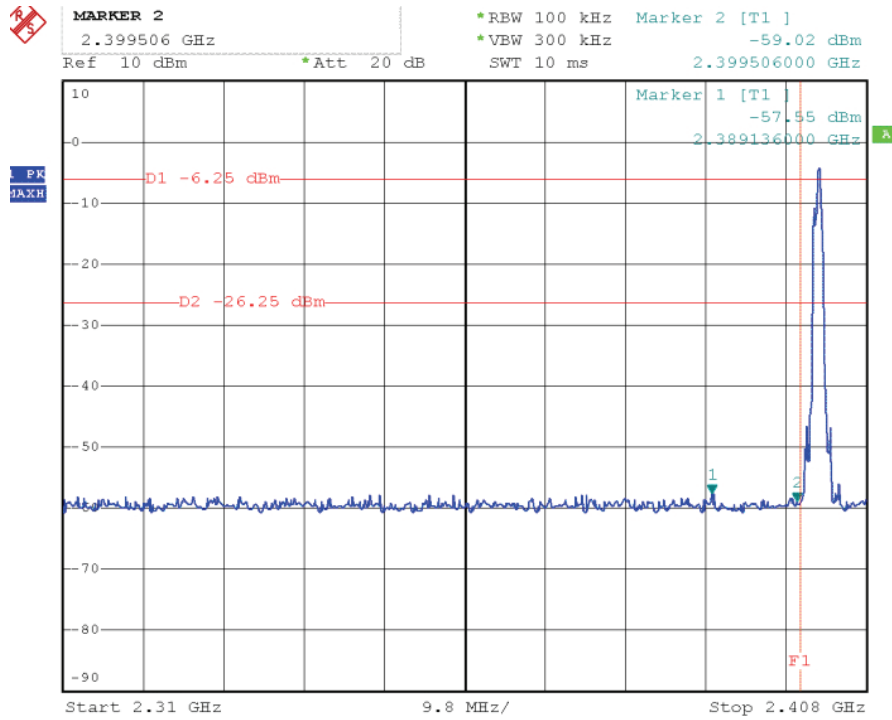
Conducted Test Result
BDR 1M
Low Channel



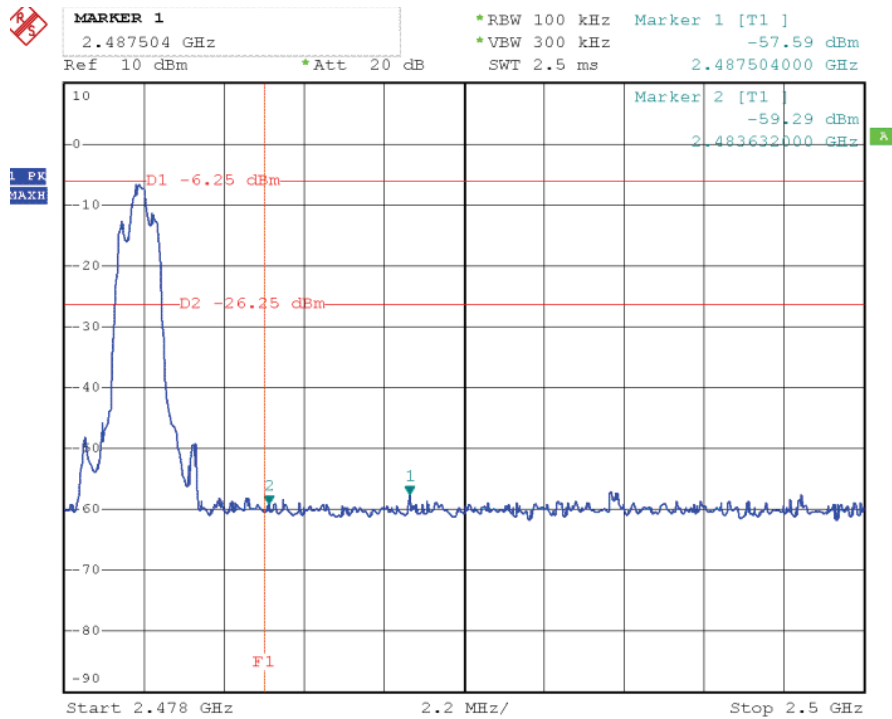
High Channel



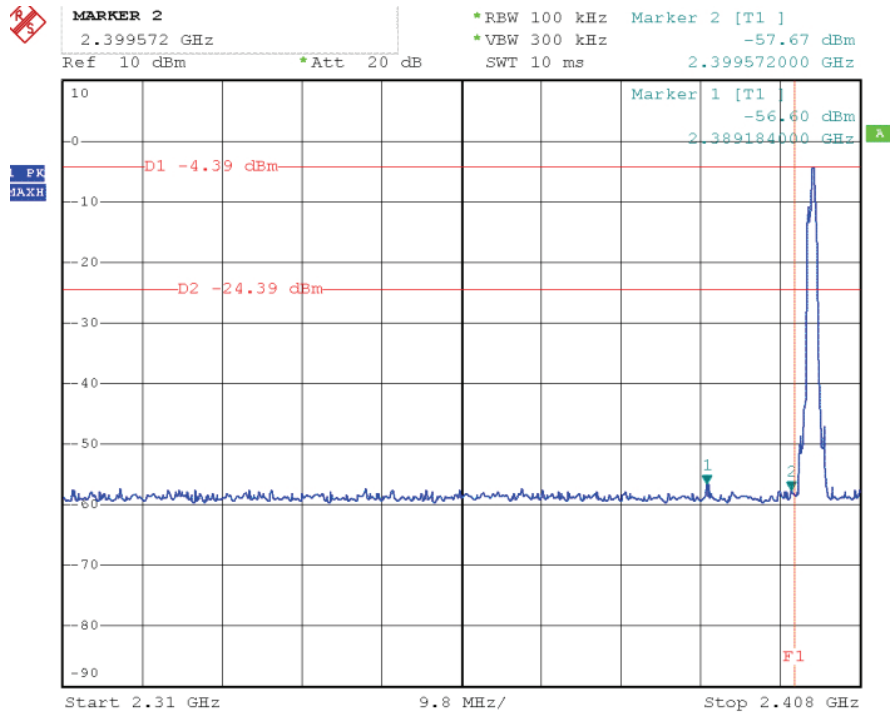
**EDR 2M
Low Channel**



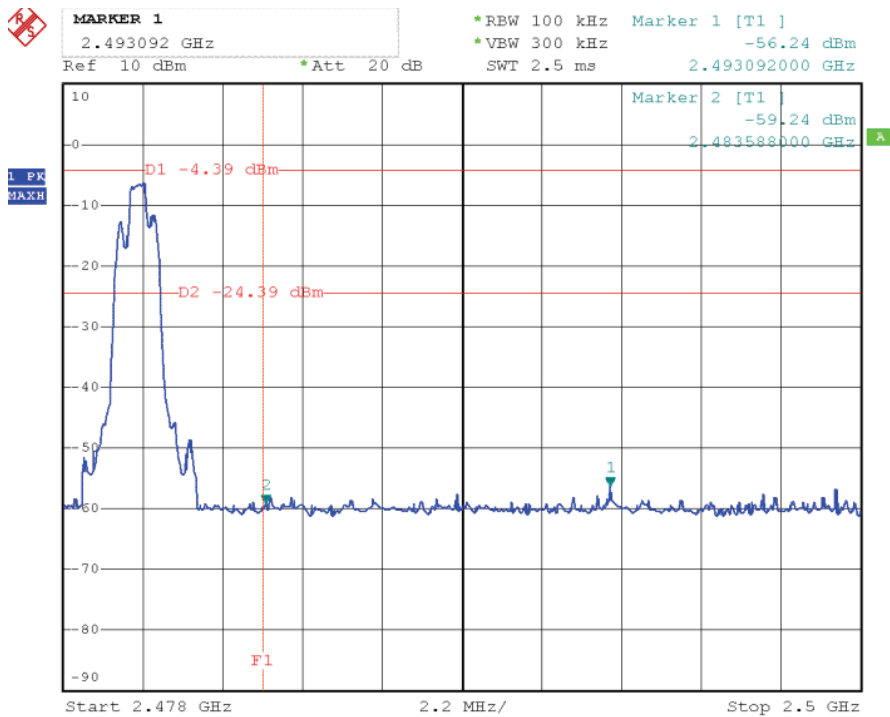
High Channel



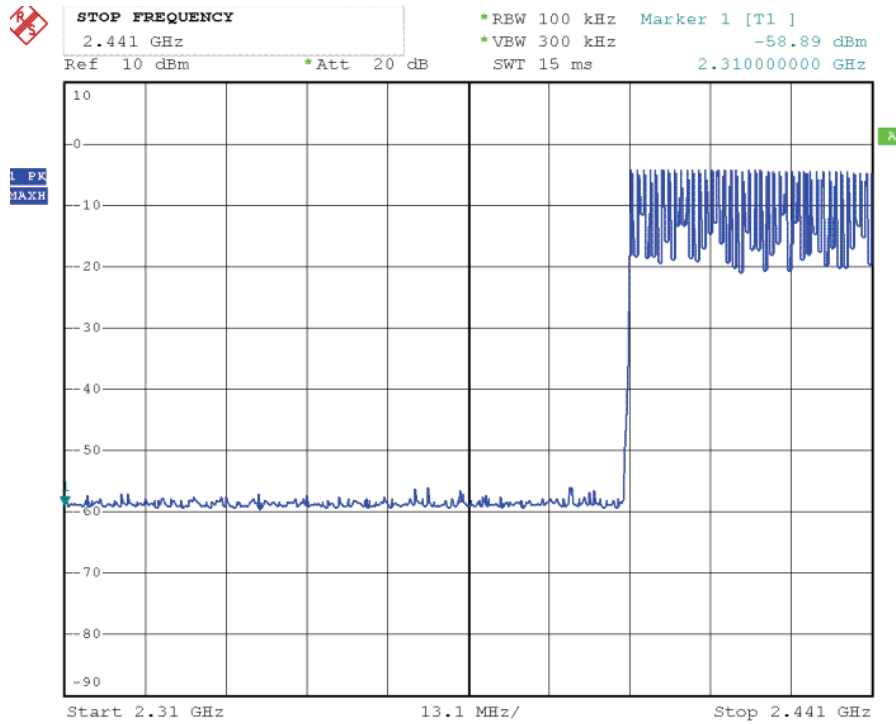
**EDR 3M
Low Channel**



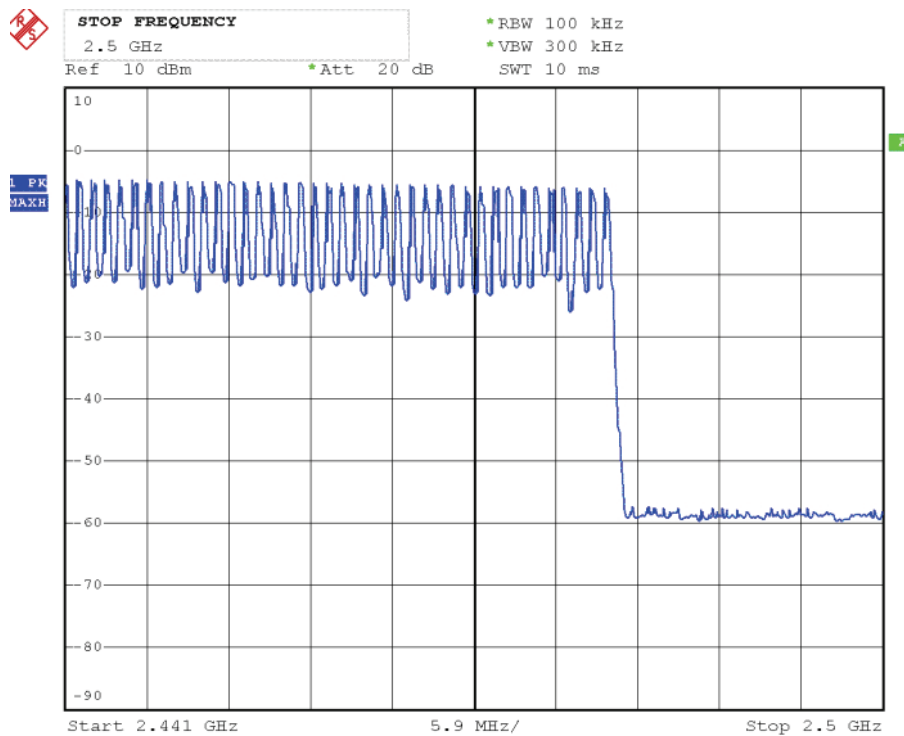
High Channel



Hopping Mode Worst case BDR 1M Low



High



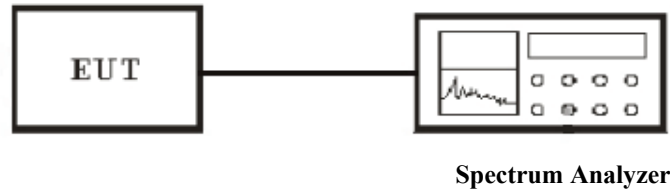
11. Test of Spurious Radiated Emission

11.1 Applicable Standard

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. In addition, radiated emissions that fall in the restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified in Section 15.209.

11.2 EUT Setup

Conducted Measurement Setup



Radiated Measurement Setup

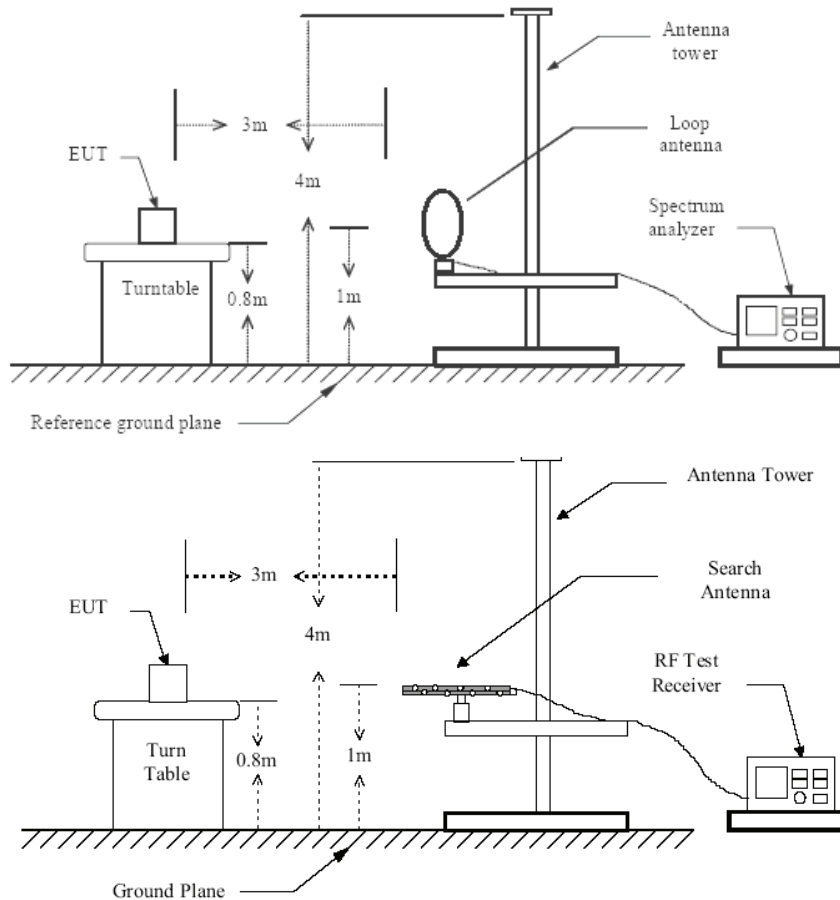


Figure 1 : Frequencies measured below 1 GHz configuration

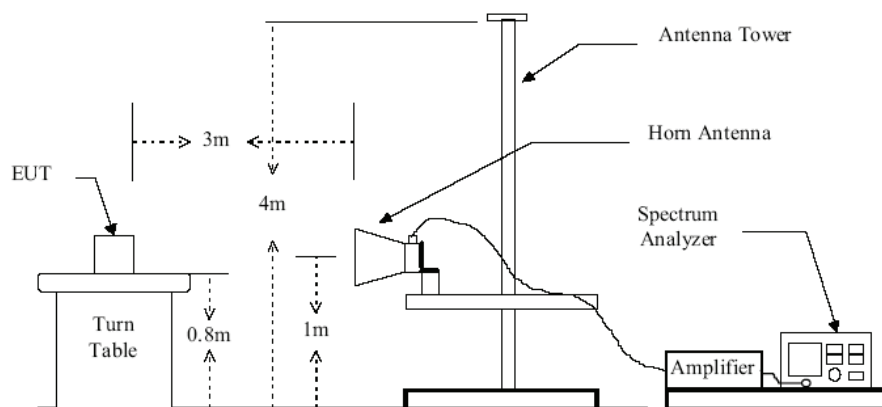


Figure 2 : Frequencies measured above 1 GHz configuration

11.3 Test Equipment List and Details

See section 2.5.

11.4 Test Procedure

Conducted Measurement

1. For emission above 1GHz to 26G,conducted measurement method is used.
2. The transmitter is set to the lowest channel.
3. The transmitter output was connected to the spectrum analyzer via a cable and cable loss is used as the offset of the spectrum analyzer.
4. Set RBW to 1 MHz and VBW to 3 MHz, Then detector set to peak and max hold this trace.
5. The lowest band edges emission was measured and recorded.
6. The transmitter set to the highest channel and repeated 2~4.

Radiated Measurement

1. Configure the EUT according to ANSI C63.4-2003
2. The EUT was placed on the top of the turntable 0.8 meter above ground.
3. Receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable. When the frequency spectrum measured started from 9 kHz to 30 MHz, a loop antenna is used. When the frequency spectrum measured started from 30 MHz to 1000 MHz and above 1000 MHz, a broadband receiving antenna and the horn antenna are used.
4. Power on the EUT and all the supporting units.
5. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
6. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emission field strength of both horizontal and vertical polarization.
7. For each suspected emission, the antenna tower was scanned (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.

8. According to the characteristic of the EUT crystals, the range of frequencies was investigated from 9KHz to 30MHz, 30MHz to 1GHz and 1GHz to 26GHz.

9. For emission below 1GHz, Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.

10. For emission above 1GHz, Set the RBW=1MHz,VBW=3MHz for Peak Detector while the RBW=1MHz, VBW=10Hz for Average Detector, Readings are both peak and average values.

11. The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos. The worst case data is recorded in the report. All emission not reported are much lower than the prescribed limits.

11.5 Test Result

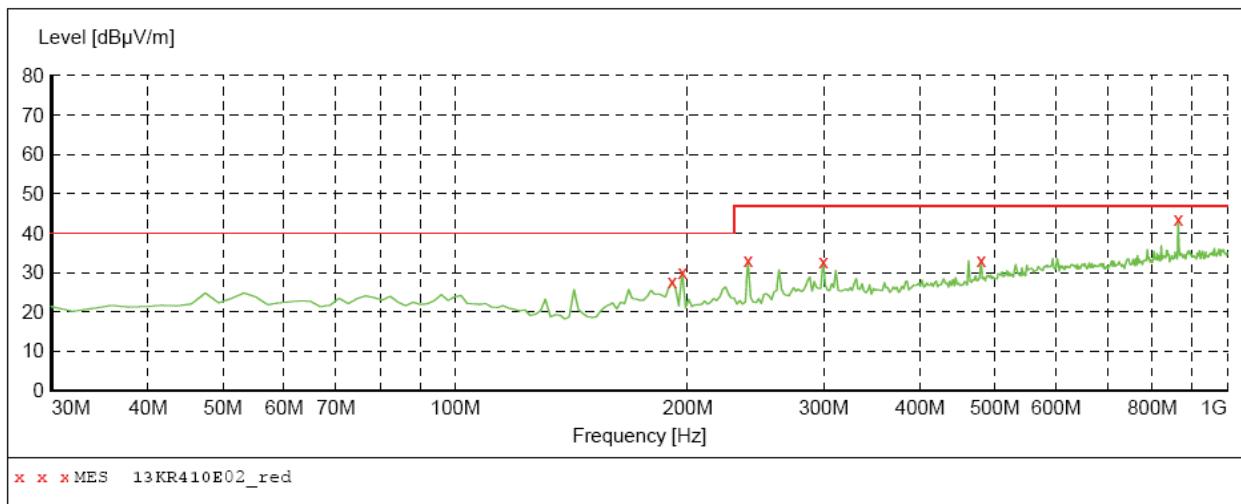
Temperature (°C) : 22~23	EUT: 3D Glasses
Humidity (%RH): 50~54	M/N: G15-BT
Barometric Pressure (mbar): 950~1000	Operation Condition: TX Mode

The worst Spurious Emission Data BDR Mode Below 1GHz Channel Low:

EUT: 3D Glasses
M/N: G15-BT
Operating Condition: TX Mode
Test Site: 3m CHAMBER
Operator: Chen
Test Specification: DC 3V from battery
Comment: Polarization: Horizontal

SWEEP TABLE: "test (30M-1G)"

Short Description:		Field Strength			
Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency				
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	VULB9163 NEW



MEASUREMENT RESULT: "13KR410E02_red"

12/5/2013 13:35

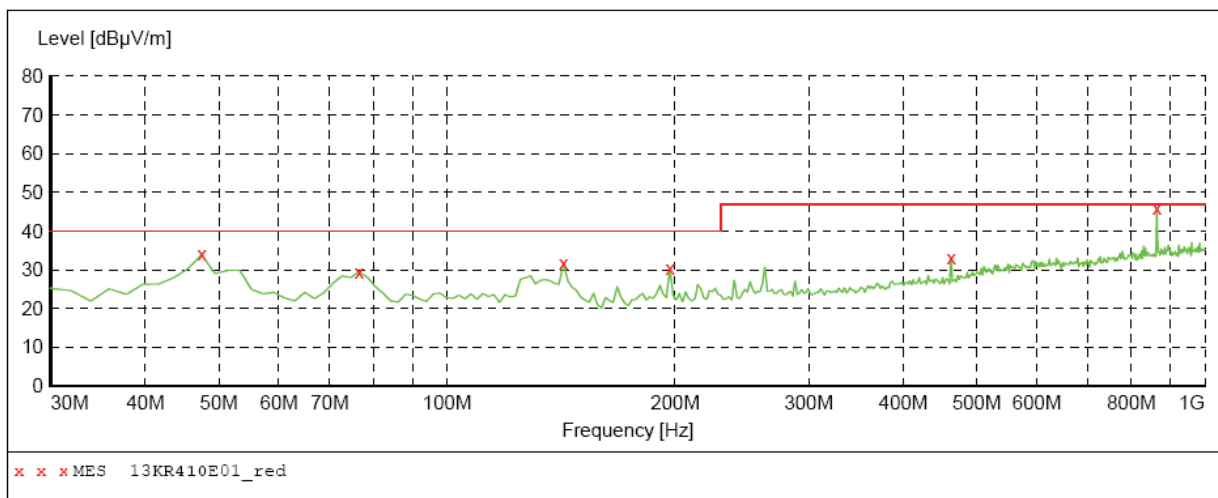
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
191.020000	27.80	14.8	40.0	12.2	QP	100.0	0.00	HORIZONTAL
196.840000	30.20	14.8	40.0	9.8	QP	100.0	0.00	HORIZONTAL
239.520000	33.00	16.9	47.0	14.0	QP	100.0	0.00	HORIZONTAL
299.660000	32.90	18.7	47.0	14.1	QP	100.0	0.00	HORIZONTAL
480.080000	33.30	23.1	47.0	13.7	QP	100.0	0.00	HORIZONTAL
864.200000	43.60	28.8	47.0	3.4	QP	100.0	0.00	HORIZONTAL

The worst Spurious Emission Data BDR Mode Below 1GHz Channel Low:

EUT: 3D Glasses
M/N: G15-BT
Operating Condition: TX Mode
Test Site: 3m CHAMBER
Operator: Chen
Test Specification: DC 3V from battery
Comment: Polarization: Vertical

SWEEP TABLE: "test (30M-1G)"

Short Description:		Field Strength			
Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency				
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	VULB9163 NEW



MEASUREMENT RESULT: "13KR410E01_red"

12/5/2013 13:34

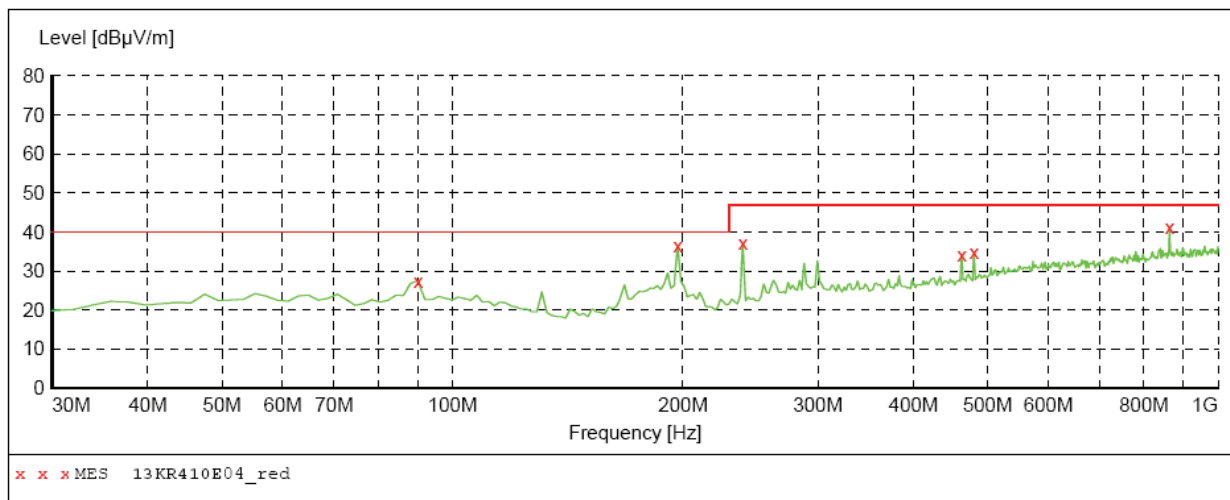
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
47.460000	34.00	15.8	40.0	6.0	QP	100.0	0.00	VERTICAL
76.560000	29.50	12.0	40.0	10.5	QP	100.0	0.00	VERTICAL
142.520000	31.70	12.3	40.0	8.3	QP	100.0	0.00	VERTICAL
196.840000	30.50	14.8	40.0	9.5	QP	100.0	0.00	VERTICAL
462.620000	33.20	22.4	47.0	13.8	QP	100.0	0.00	VERTICAL
864.200000	45.00	28.8	47.0	2.0	QP	100.0	0.00	VERTICAL

The worst Spurious Emission Data BDR Mode Below 1GHz Channel Middle:

EUT: 3D Glasses
M/N: G15-BT
Operating Condition: TX Mode
Test Site: 3m CHAMBER
Operator: Chen
Test Specification: DC 3V from battery
Comment: Polarization: Horizontal

SWEEP TABLE: "test (30M-1G)"

Short Description:		Field Strength			
Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency				
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	VULB9163 NEW



MEASUREMENT RESULT: "13KR410E04_red"

12/5/2013 13:43

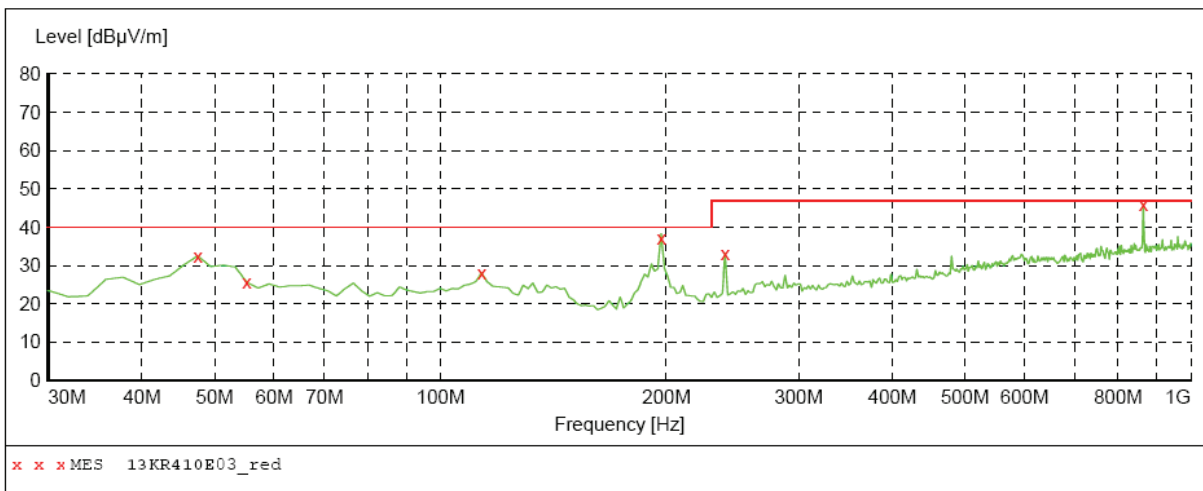
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
90.140000	27.50	16.1	40.0	12.5	QP	100.0	0.00	HORIZONTAL
196.840000	36.60	14.8	40.0	3.4	QP	100.0	0.00	HORIZONTAL
239.520000	37.10	16.9	47.0	9.9	QP	100.0	0.00	HORIZONTAL
462.620000	34.30	22.4	47.0	12.7	QP	100.0	0.00	HORIZONTAL
480.080000	34.70	23.1	47.0	12.3	QP	100.0	0.00	HORIZONTAL
864.200000	41.40	28.8	47.0	5.6	QP	100.0	0.00	HORIZONTAL

The worst Spurious Emission Data BDR Mode Below 1GHz Channel Middle:

EUT: 3D Glasses
M/N: G15-BT
Operating Condition: TX Mode
Test Site: 3m CHAMBER
Operator: Chen
Test Specification: DC 3V from battery
Comment: Polarization: Vertical

SWEEP TABLE: "test (30M-1G)"

Short Description:		Field Strength			
Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency				
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	VULB9163 NEW



MEASUREMENT RESULT: "13KR410E03_red"

12/5/2013 13:41

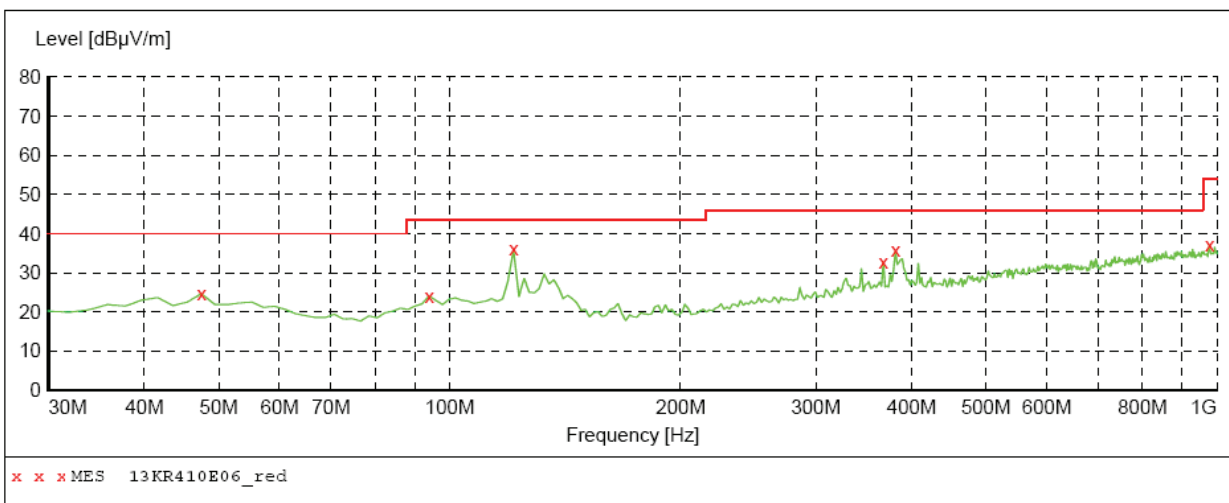
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
47.460000	32.50	15.8	40.0	7.5	QP	100.0	0.00	VERTICAL
55.220000	25.60	15.6	40.0	14.4	QP	100.0	0.00	VERTICAL
113.420000	28.10	15.9	40.0	11.9	QP	100.0	0.00	VERTICAL
196.840000	37.30	14.8	40.0	2.7	QP	100.0	0.00	VERTICAL
239.520000	33.30	16.9	47.0	13.7	QP	100.0	0.00	VERTICAL
864.200000	45.00	28.8	47.0	2.0	QP	100.0	0.00	VERTICAL

The worst Spurious Emission Data BDR Mode Below 1GHz Channel High:

EUT: 3D Glasses
M/N: G15-BT
Operating Condition: TX Mode
Test Site: 3m CHAMBER
Operator: Chen
Test Specification: DC 3V from battery
Comment: Polarization: Horizontal

SWEEP TABLE: "test (30M-1G)"

Short Description:		Field Strength			
Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency	MaxPeak	Coupled	100 kHz	VULB9163 NEW
30.0 MHz	1.0 GHz				



MEASUREMENT RESULT: "13KR410E06_red"

12/5/2013 14:16

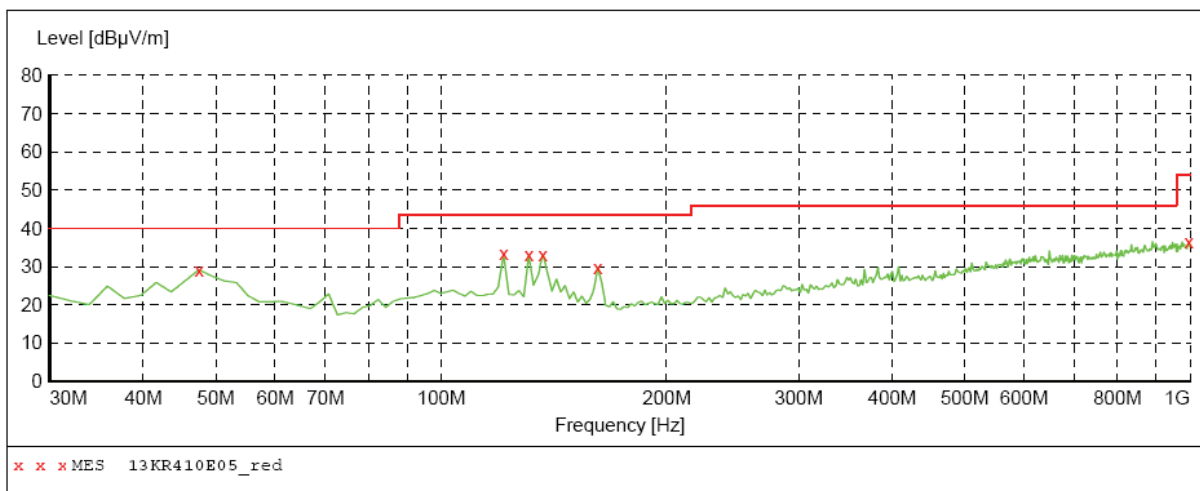
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
47.460000	24.70	15.8	40.0	15.3	QP	100.0	0.00	HORIZONTAL
94.020000	24.10	16.9	43.5	19.4	QP	100.0	0.00	HORIZONTAL
121.180000	36.00	14.5	43.5	7.5	QP	100.0	0.00	HORIZONTAL
367.560000	32.70	20.7	46.0	13.3	QP	100.0	0.00	HORIZONTAL
381.140000	35.70	20.9	46.0	10.3	QP	100.0	0.00	HORIZONTAL
978.660000	37.10	29.8	54.0	16.9	QP	100.0	0.00	HORIZONTAL

The worst Spurious Emission Data BDR Mode Below 1GHz Channel High:

EUT: 3D Glasses
M/N: G15-BT
Operating Condition: TX Mode
Test Site: 3m CHAMBER
Operator: Chen
Test Specification: DC 3V from battery
Comment: Polarization: Vertical

SWEEP TABLE: "test (30M-1G)"

Short Description:		Field Strength			
Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency	MaxPeak	Coupled	100 kHz	VULB9163 NEW
30.0 MHz	1.0 GHz				



MEASUREMENT RESULT: "13KR410E05_red"

12/5/2013 14:12

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
47.460000	29.20	15.8	40.0	10.8	QP	100.0	0.00	VERTICAL
121.180000	33.50	14.5	43.5	10.0	QP	100.0	0.00	VERTICAL
130.880000	33.20	13.0	43.5	10.3	QP	100.0	0.00	VERTICAL
136.700000	33.30	12.5	43.5	10.2	QP	100.0	0.00	VERTICAL
161.920000	29.90	12.8	43.5	13.6	QP	100.0	0.00	VERTICAL
996.120000	36.60	29.9	54.0	17.4	QP	100.0	0.00	VERTICAL

The worst Spurious Emission Data BDR Mode Above 1GHz

Channel Low

Channel Low (2402MHz)								
Maximum Frequency (MHz)	Polarity and Level					Limit (dBµV/m)	Margin (dBµV/m)	Mark (P/Q/A)
	Polarity	Height (m)	Reading dBµV	Transd	Result dBµV/m			
2402	H	1	84.76	-7.15	77.61	N/A	N/A	P
			78.68	-7.15	71.53	N/A	N/A	A
2402	V	1	86.23	-7.15	79.08	N/A	N/A	P
			80.02	-7.15	72.87	N/A	N/A	A
4804	H	1	42.02	1.07	43.09	74	-30.91	P
			32.7	1.07	33.77	54	-20.23	A
4804	V	1	44.31	1.07	45.38	74	-28.62	P
			33.42	1.07	34.49	54	-19.51	A
7206	H	1	41.69	7.38	49.07	74	-24.93	P
			31.82	7.38	39.2	54	-14.8	A
7206	V	1	44.82	7.38	52.2	74	-21.8	P
			33.2	7.38	40.58	54	-13.42	A
9613.33	H	1	42.98	10.29	53.27	74	-20.73	P
			32.29	10.29	42.58	54	-11.42	A
9613.33	V	1	44.01	7.38	51.39	74	-22.61	P
			32.62	7.38	40	54	-14	A
12021.67	H	1	43.42	14.01	57.43	74	-16.57	P
			33.01	14.01	47.02	54	-6.98	A
12021.67	V	1	44.29	14.01	58.3	74	-15.7	P
			32.86	14.01	46.87	54	-7.13	A
25380.37	----	----	----	----	----	----	----	----

Remark: 1. Transd.=Antenna Factor+Cable Loss-Pre-amplifier
 Margin = Level-Limit
 Mark: P means Peak Value, Q means Quasi Peak Value, A means Average Value
 2. Data of measurement within this frequency range shown “-” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
 3. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.
 4. The test limit distance is 3m limit

Channel Mid

Channel Low (2441MHz)								
Maximum Frequency (MHz)	Polarity and Level					Limit (dBµV/m)	Margin (dBµV/m)	Mark (P/Q/A)
	Polarity	Height (m)	Reading dBµV	Transd	Result dBµV/m			
2441	H	1	84.02	-6.37	77.65	N/A	N/A	P
			78.82	-6.37	72.45	N/A	N/A	A
2441	V	1	86.23	-6.37	79.86	N/A	N/A	P
			79.87	-6.37	73.5	N/A	N/A	A
4882	H	1	39.83	1.07	40.9	74	-33.1	P
			31.82	1.07	32.89	54	-21.11	A
4882	V	1	39.69	1.07	40.76	74	-33.24	P
			31.76	1.07	32.83	54	-21.17	A
7323	H	1	41.23	7.49	48.72	74	-25.28	P
			32.32	7.49	39.81	54	-14.19	A
7323	V	1	42.21	7.49	49.7	74	-24.3	P
			32.31	7.49	39.8	54	-14.2	A
9764	H	1	42.83	10.47	53.3	74	-20.7	P
			32.12	10.47	42.59	54	-11.41	A
9764	V	1	44.17	10.47	54.64	74	-19.36	P
			32.56	10.47	43.03	54	-10.97	A
12191.67	H	1	44.829	14.1	58.929	74	-15.071	P
			31.65	14.1	45.75	54	-8.25	A
12191.67	V	1	44.79	14.1	58.89	74	-15.11	P
			32.07	14.1	46.17	54	-7.83	A
25380.37	----	----	----	----	----	----	----	----

Remark: 1. Transd.=Antenna Factor+Cable Loss-Pre-amplifier
 Margin = Level-Limit
 Mark: P means Peak Value, Q means Quasi Peak Value, A means Average Value
 2. Data of measurement within this frequency range shown “-” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
 3. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.
 4. The test limit distance is 3m limit

Channel High

Channel Low (2480MHz)								
Maximum Frequency (MHz)	Polarity and Level					Limit (dBµV/m)	Margin (dBµV/m)	Mark (P/Q/A)
	Polarity	Height (m)	Reading dBµV	Transd	Result dBµV/m			
2480	H	1	83.22	-6.05	77.17	N/A	N/A	P
			78.79	-6.05	72.74	N/A	N/A	A
2480	V	1	84.78	-6.05	78.73	N/A	N/A	P
			78.69	-6.05	72.64	N/A	N/A	A
4960	H	1	50.75	1.07	51.82	74	-22.18	P
			32.39	1.07	33.46	54	-20.54	A
4960	V	1	41.81	1.07	42.88	74	-31.12	P
			32.03	1.07	33.1	54	-20.9	A
7440	H	1	42.65	7.61	50.26	74	-23.74	P
			31.69	7.61	39.3	54	-14.7	A
7440	V	1	43.82	7.61	51.43	74	-22.57	P
			32.45	7.61	40.06	54	-13.94	A
9920	H	1	41.79	10.65	52.44	74	-21.56	P
			33.06	10.65	43.71	54	-10.29	A
9920	V	1	44.68	10.65	55.33	74	-18.67	P
			32.79	10.65	43.44	54	-10.56	A
12361.67	H	1	42.81	14.19	57	74	-17	P
			31.98	14.19	46.17	54	-7.83	A
12361.67	V	1	43.96	14.19	58.15	74	-15.85	P
			31.72	14.19	45.91	54	-8.09	A
25380.37	----	----	----	----	----	----	----	----

Remark: 1. Transd.=Antenna Factor+Cable Loss-Pre-amplifier
 Margin = Level-Limit
 Mark: P means Peak Value, Q means Quasi Peak Value, A means Average Value
 2. Data of measurement within this frequency range shown “-” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
 3. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz.
 4. The test limit distance is 3m limit

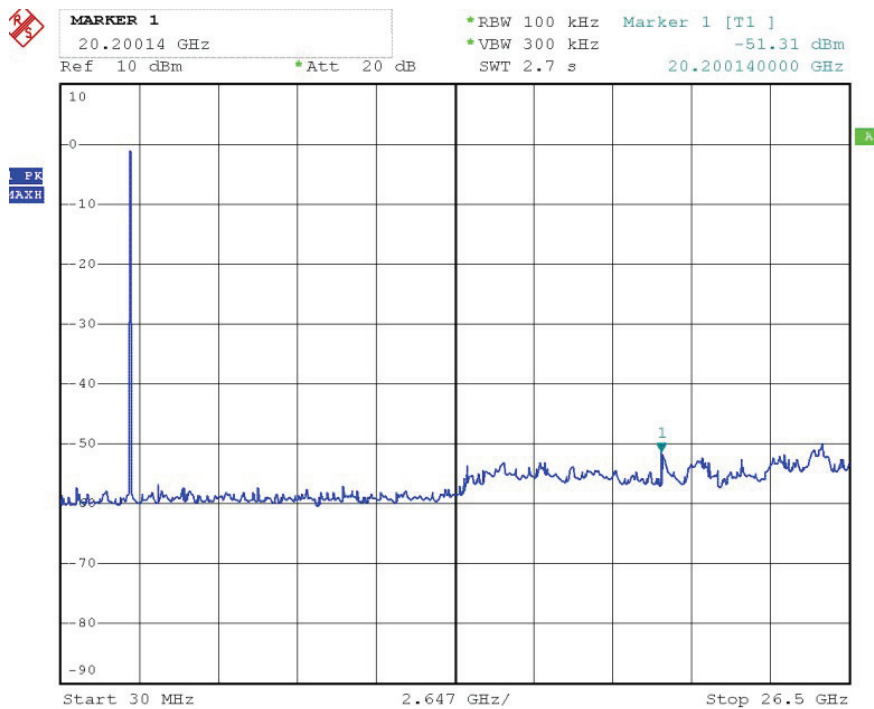
The worst Spurious Emission Data BDR Mode Below 30 MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Levels (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Mode
0.534	26.52	8.22	-1.01	33.73	67	-33.27	QP
18.32	25.52	8.17	-1.2	32.49	49.5	-17.01	QP
23.15	26.33	8.03	-1.05	33.31	49.5	-16.19	QP
24.24	27.52	7.48	-1.69	33.31	49.5	-16.19	QP

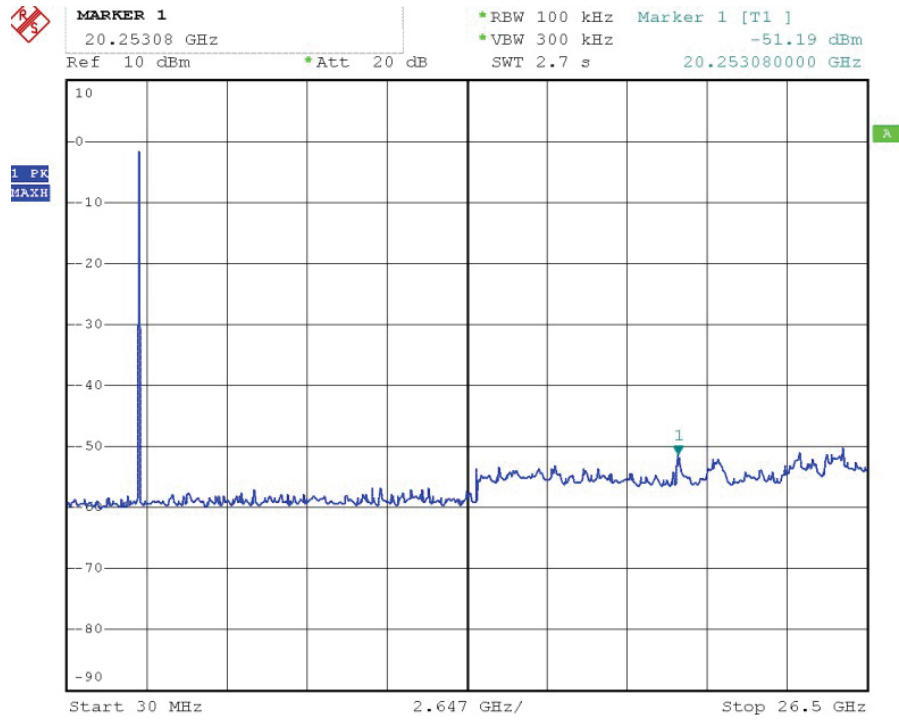
Note:

1. The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos. The worst case data is recorded in the report.
2. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
3. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
4. The other emission levels were very low against the limit.
5. Margin value = Emission level.- Limit value

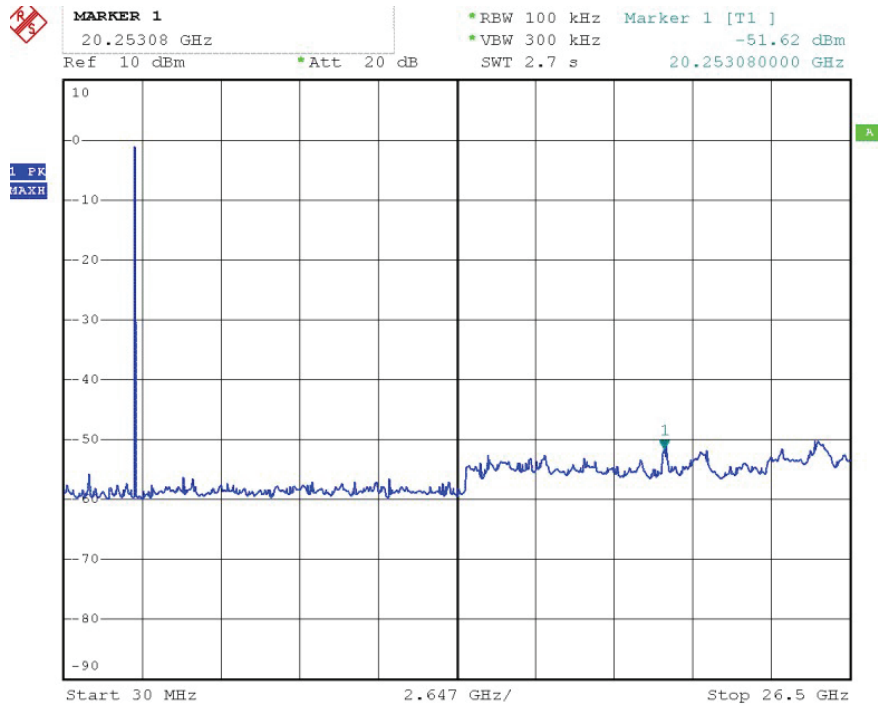
**Conducted Spurious Emission
BDR 1M
Channel Low**



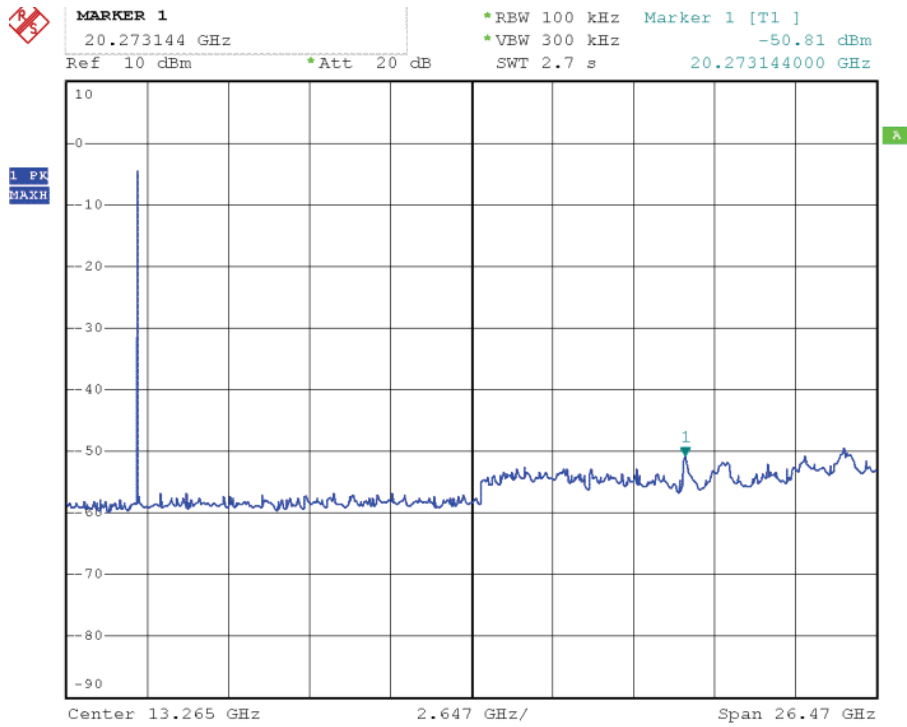
Channel Mid



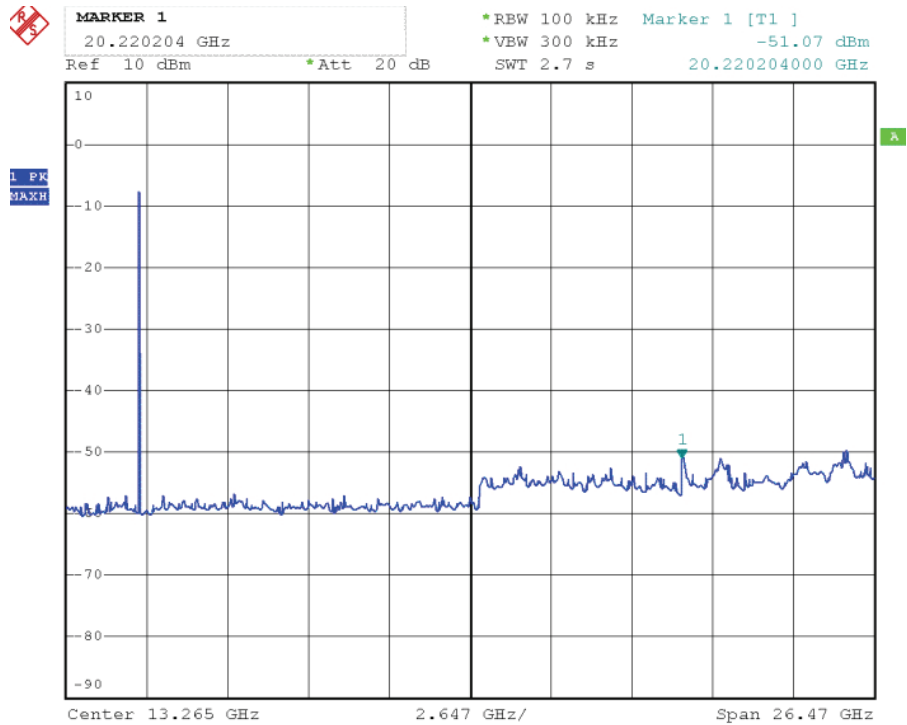
Channel High



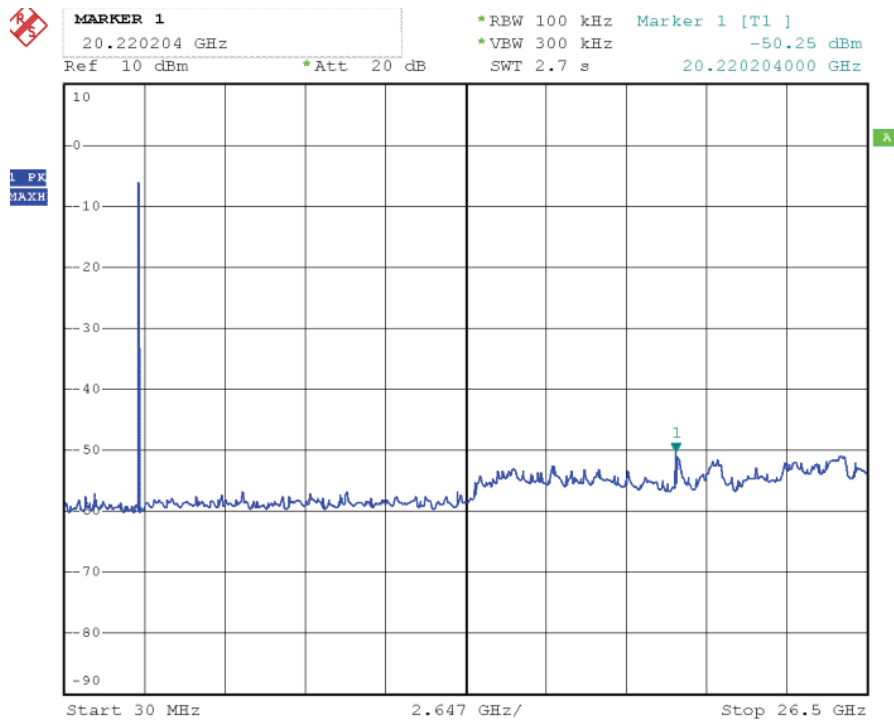
**BDR 2M
Channel Low**



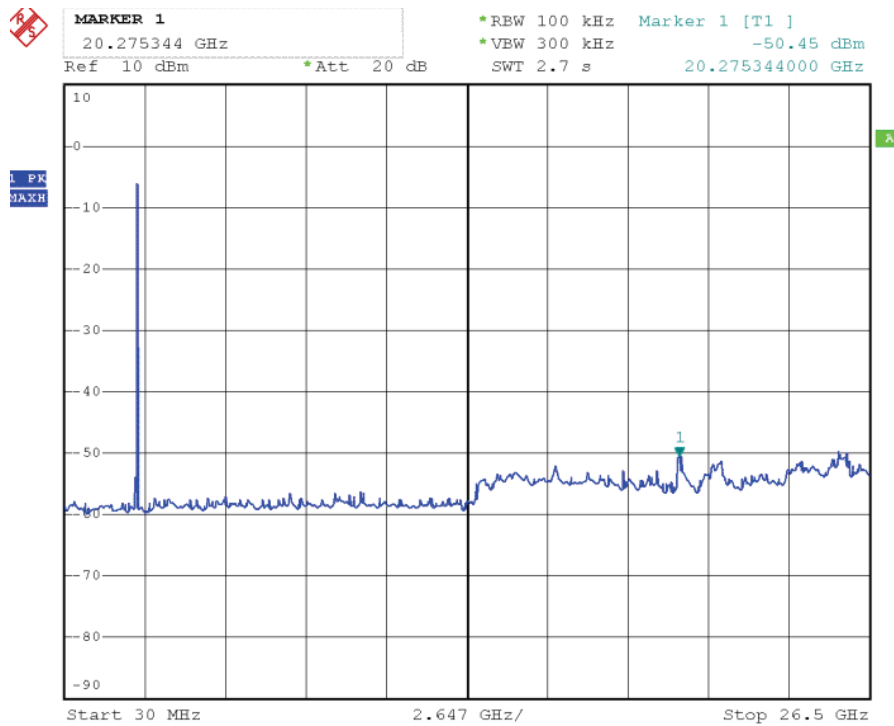
Channel Middle



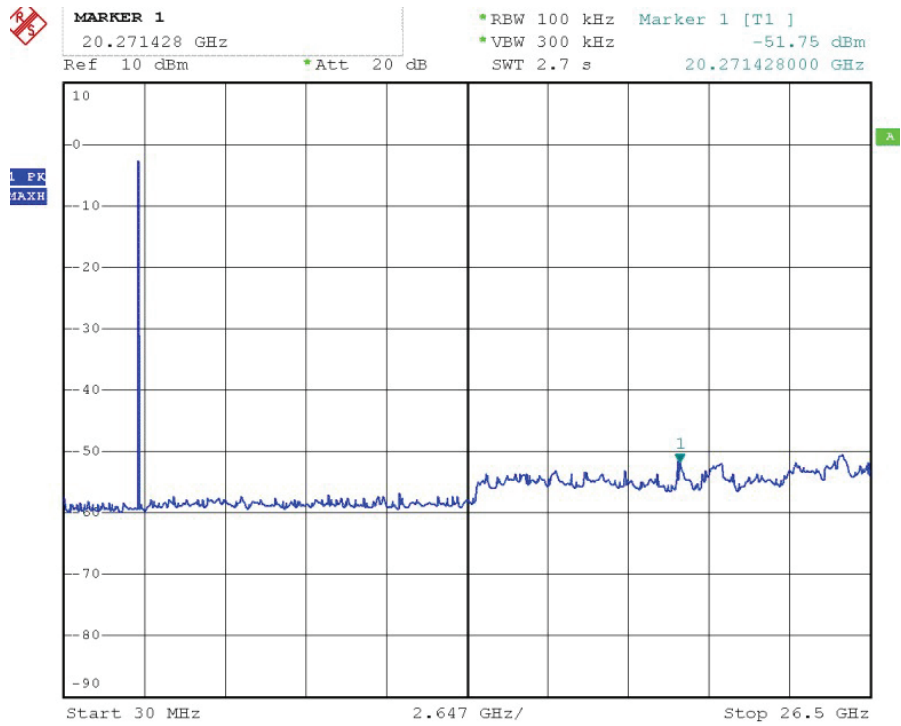
Channel High



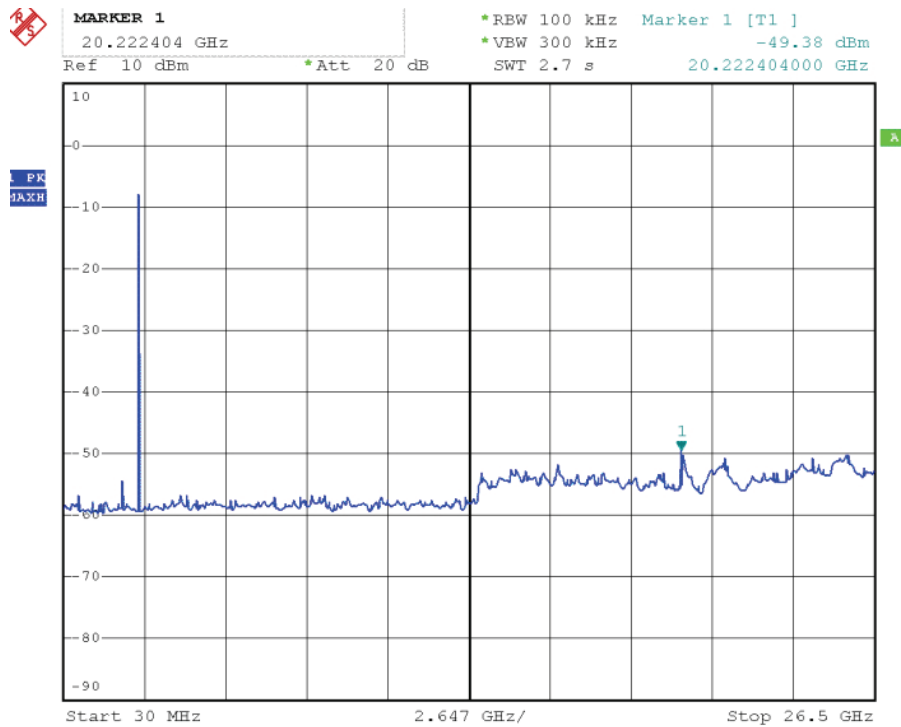
BDR 3M Channel Low



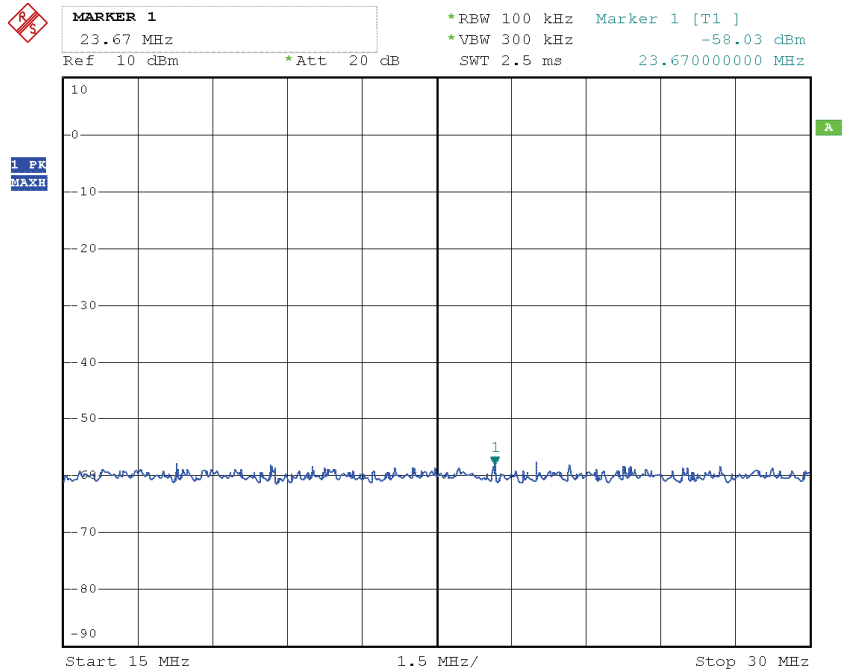
Channel Middle



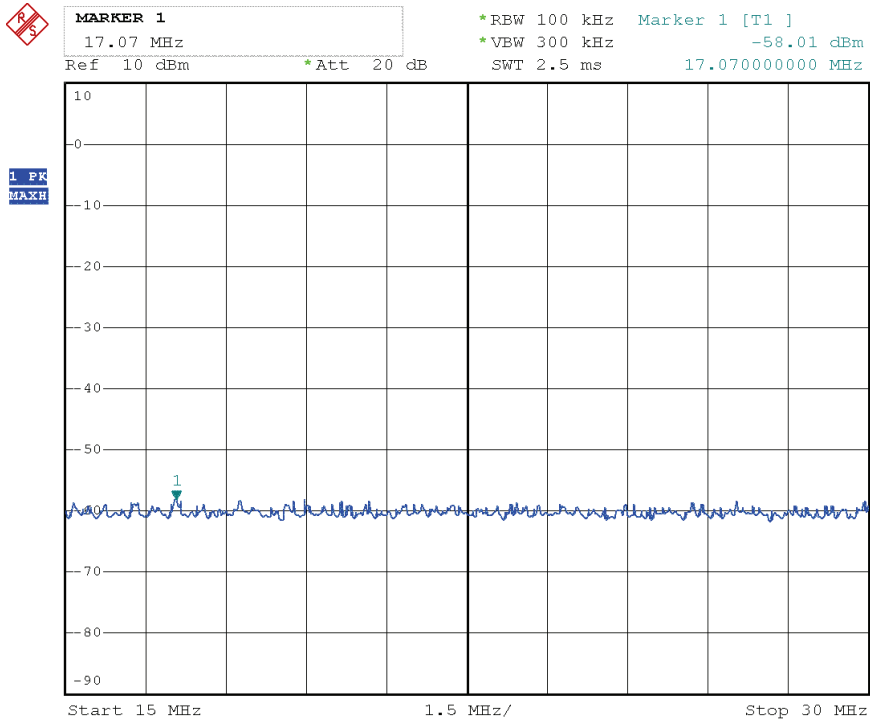
Channel High



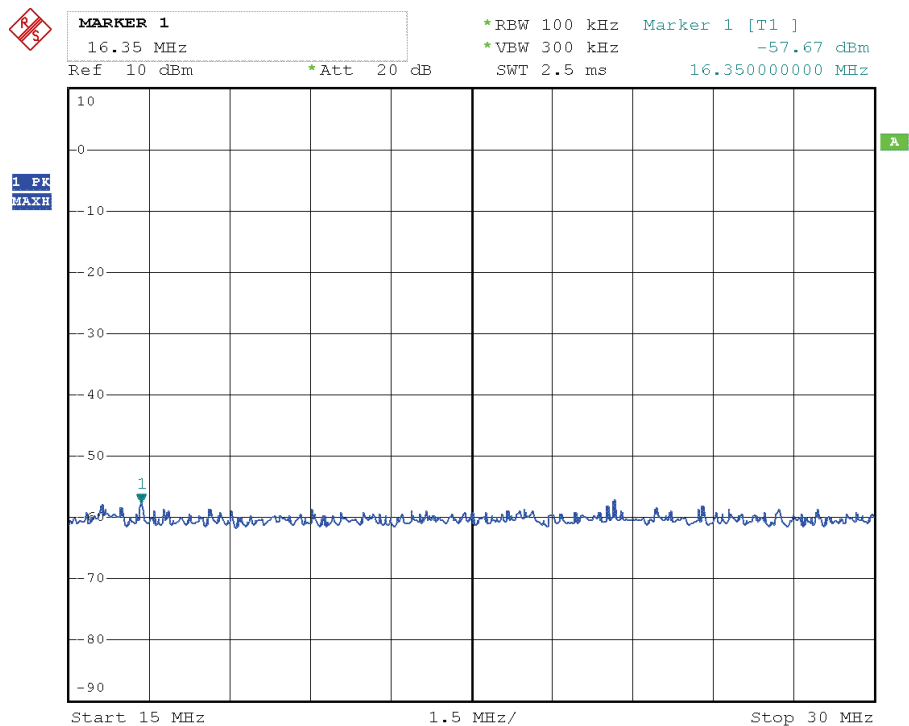
**Conducted Spurious Emission
Below 30MHz Worst case BDR
Channel Low**



Channel Middle Date: 25.DEC.2013 16:19:24



Channel High



12. ANTENNA REQUIREMENT

12.1 Standard Applicable

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Section 15.247(b)/(c):

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

If the intentional radiator is used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

12.2 Antenna Connected Construction

The antenna is designed with permanent attachment and no consideration of replacement. The antenna used in this product is complied with Standard. The maximum Gain of the antenna lower than 6.0dBi and have the definite antenna Specification.