

RADIO TEST REPORT

FCC 47 CFR PART 15 SUBPART C

Test Standard	FCC Part 15.247
Product name	WiFi and Bluetooth module
Brand Name	JORJIN
Model No.	WG3221-00
Test Result	Pass
Statements of Conformity	Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report.

The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc.(Wugu Laboratory)

Approved by:



Kevin Tsai
Deputy Manager

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部分複製。

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Revision History

Rev.	Issue Date	Revisions	Revised By
00	March 9, 2020	Initial Issue	Doris Chu
01	March 26, 2020	<ol style="list-style-type: none">1. Added S/N, SW Test Tool and SW Tool version in section 1.1 in page 4.2. Revised section 1.6 in page 8.3. Added Support Equipment in section 1.7 in page 10.4. Revised Frequency to 2402 in section 4.7.4 in page 35.5. Added Radiation setup photo in A-1-A-3.	Doris Chu



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1. GENERAL INFORMATION

1.1 EUT INFORMATION

Applicant	Jorjin Technologies Inc. 17F.-1, NO.239, SEC. 1, DATONG RD., XIZHI DIST. New Taipei City, 22161 Taiwan
Manufacturer	Jorjin Technologies Inc. 17F.-1, NO.239, SEC. 1, DATONG RD., XIZHI DIST. New Taipei City, 22161 Taiwan
Equipment	WiFi and Bluetooth module
Model No.	WG3221-00
Model Discrepancy	N/A
Trade Name	JORJIN
Received Date	November 11, 2019
Date of Test	November 26 ~ December 31, 2019
Output Power (W)	GFSK : 0.0106 8DPSK : 0.0059
Power Operation	Power from host device.
HW Version	WG3221-00B-R01
FW Version	goldenBoardData_HW_191005
S/N	00199438FD7E
SW Test Tool	Qualcomm QRCT
SW Tool version	3.0.298.0

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1.2 INFORMATION ABOUT THE FHSS CHARACTERISTICS

1.2.1 Pseudorandom Frequency Hopping Sequence

The channel is represented by a pseudo-random hopping sequence hopping through the 79 RF channels. The hopping sequence is unique for the piconet and is determined by the Bluetooth device address of the master; the phase in the hopping sequence is determined by the Bluetooth clock of the master. The channel is divided into time slots where each slot corresponds to an RF hop frequency. Consecutive hops correspond to different RF hop frequencies. The nominal hop rate is 1 600 hops/s.

1.2.2 Equal Hopping Frequency Use

The channels of this system will be used equally over the long-term distribution of the hopsets.

1.2.3 Example of a 79 hopping sequence in data mode:

02, 05, 31, 24, 20, 10, 43, 36, 30, 23, 40, 06, 21, 50, 44, 09, 71, 78, 01, 13, 73, 07, 70, 72, 35, 62, 42, 11, 41, 08, 16, 29, 60, 15, 34, 61, 58, 04, 67, 12, 22, 53, 57, 18, 27, 76, 39, 32, 17, 77, 52, 33, 56, 46, 37, 47, 64, 49, 45, 38, 69, 14, 51, 26, 79, 19, 28, 65, 75, 54, 48, 03, 25, 66, 05, 16, 68, 74, 59, 63, 55

1.2.4 System Receiver Input Bandwidth

Each channel bandwidth is 1MHz.

The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

1.2.5 Equipment Description

RSS-247, 5.1 (a): The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

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1.3 EUT CHANNEL INFORMATION

Frequency Range	2402MHz-2480MHz
Modulation Type	1. GFSK for BDR-1Mbps 2. $\pi/4$ -DQPSK for EDR-2Mbps 3. 8DPSK for EDR-3Mbps
Number of channel	79 Channels

Remark:

Refer as ANSI C63.10: 2013 clause 5.6.1 Table 4 for test channels

Number of frequencies to be tested		
Frequency range in which device operates	Number of frequencies	Location in frequency range of operation
<input type="checkbox"/> 1 MHz or less	1	Middle
<input type="checkbox"/> 1 MHz to 10 MHz	2	1 near top and 1 near bottom
<input checked="" type="checkbox"/> More than 10 MHz	3	1 near top, 1 near middle, and 1 near bottom

1.4 ANTENNA INFORMATION

Antenna Specification	<ol style="list-style-type: none"> Unictron / AA077 Chip Antenna / Gain: 1.4 dBi Unictron / AA222 PCB Antenna / Gain: 3.73 dBi JOINSOON ELECTRONICS MFG .CO,LTO / WiFi3dB Antenna Dipole Antenna / Gain: 2.45 dBi
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1.5 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	+/- 1.2575
Emission bandwidth, 20dB bandwidth	+/- 1.4003
RF output power, conducted	+/- 1.1372
Power density, conducted	+/- 1.4003
3M Semi Anechoic Chamber / 30M~200M	+/- 4.0138
3M Semi Anechoic Chamber / 200M~1000M	+/- 3.9483
3M Semi Anechoic Chamber / 1G~8G	+/- 2.5975
3M Semi Anechoic Chamber / 8G~18G	+/- 2.6112
3M Semi Anechoic Chamber / 18G~26G	+/- 2.7389
3M Semi Anechoic Chamber / 26G~40G	+/- 2.9683

Remark:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$
2. ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.

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1.6 FACILITIES AND TEST LOCATION

All measurement facilities used to collect the measurement data are located at No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.)

Test site	Test Engineer	Remark
AC Conduction Room	Dally Hong	-
Radiation	Jerry Chang	-
RF Conducted	Dally Hong	-

Remark: The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

1.7 INSTRUMENT CALIBRATION

RF Conducted Test Site					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Power Meter	Anritsu	ML2495A	1149001	02/12/2019	02/11/2020
Power Seneor	Anritsu	MA2491A	030982	02/12/2019	02/11/2020
Signal Analyzer	R&S	FSV 40	101073	09/25/2019	09/24/2020
Software	N/A				

3M 966 Chamber Test Site					
Equipment	Manufacturer	Model	S/N	Cal Date	Cal Due
Band Reject Filters	MICRO TRONICS	BRM 50702	120	02/26/2019	02/25/2020
Bilog Antenna	Sunol Sciences	JB3	A030105	07/26/2019	07/25/2020
Coaxial Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	02/26/2019	02/25/2020
Coaxial Cable	EMCI	EMC105	190914+25111	09/20/2019	09/19/2020
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/30/2019	01/29/2020
double Ridged Guide Horn Antenna	ETC	MCTD 1209	DRH13M02003	10/04/2019	10/03/2020
Loop Ant	COM-POWER	AL-130	121051	03/22/2019	03/21/2020
Pre-Amplifier	EMEC	EM330	060609	02/26/2019	02/25/2020
Pre-Amplifier	HP	8449B	3008A00965	02/26/2019	02/25/2020
Horn Antenna	ETS LINDGREN	3116	00026370	2018/12/26	2019/12/25
K Type Cable	Huber+Suhner	SUCOFLEX 102	29406/2	12/18/2018	12/17/2019
K Type Cable	Huber+Suhner	SUCOFLEX 102	22470/2	12/18/2018	12/17/2019
Pre-Amplifier	EMEC	EM01G26G	060570	06/27/2019	06/26/2020
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	05/29/2019	05/28/2020
Horn Antenna	ETS LINDGREN	3116	00026370	12/18/2019	12/17/2020
K Type Cable	Huber+Suhner	SUCOFLEX 102	29406/2	12/17/2019	12/16/2020
K Type Cable	Huber+Suhner	SUCOFLEX 102	22470/2	12/17/2019	12/16/2020
Pre-Amplifier	EMEC	EM01G26G	060570	06/27/2019	06/26/2020
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Software	e3 6.11-20180413				

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Conducted Emission Room # B					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
CABLE	EMCI	CFD300-NL	CERF	06/27/2019	06/26/2020
EMI Test Receiver	R&S	ESCI	100064	07/26/2019	07/25/2020
LISN	SCHWARZBECK	NSLK 8127	8127-541	01/31/2019	01/30/2020
LISN	SCHAFFNER	NNB 41	03/10013	02/13/2019	02/12/2020
Software	EZ-EMC(CCS-3A1-CE)				

Remark: Each piece of equipment is scheduled for calibration once a year.



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1.8 SUPPORT AND EUT ACCESSORIES EQUIPMENT

EUT Accessories Equipment					
No.	Equipment	Brand	Model	Series No.	FCC ID
	N/A				

Support Equipment					
No.	Equipment	Brand	Model	Series No.	FCC ID
1	NB(J)	acer	MS2392	N/A	PPD-QCNFA34AC
2	NB(J)	Lenovo	T420	N/A	PD97260H

1.9 TEST METHODOLOGY AND APPLIED STANDARDS

The test methodology, setups and results comply with all requirements in accordance with ANSI C63.10:2013, FCC Part 2, FCC Part 15.247.

2. TEST SUMMERY

FCC Standard Section	Report Section	Test Item	Result
15.203	1.3	Antenna Requirement	Pass
15.207(a)	4.1	AC Conducted Emission	Pass
15.247(a)(1)	4.2	20 dB Bandwidth	Pass
-	4.2	Occupied Bandwidth (99%)	Pass
15.247(b)(1)	4.3	Output Power Measurement	Pass
15.247(a)(1)	4.4	Frequency Separation	Pass
15.247(a)(1)(iii)	4.5	Number of Hopping	Pass
15.247(d)	4.6	Conducted Band Edge	Pass
15.247(d)	4.6	Conducted Spurious Emission	Pass
15.247(a)(1)(iii)	4.7	Time of Occupancy	Pass
15.247(d)	4.8	Radiation Band Edge	Pass
15.247(d)	4.8	Radiation Spurious Emission	Pass

3. DESCRIPTION OF TEST MODES

3.1 THE WORST MODE OF OPERATING CONDITION

<p>Operation mode</p>	<p>GFSK for BDR-1Mbps (DH5) 8DPSK for EDR-3Mbps (3DH5)</p>
<p>Test Channel Frequencies</p>	<p>GFSK for BDR-1Mbps: 1.Lowest Channel: 2402MHz 2.Middle Channel: 2441MHz 3.Highest Channel: 2480MHz 8DPSK for EDR-3Mbps: 1.Lowest Channel: 2402MHz 2.Middle Channel: 2441MHz 3.Highest Channel: 2480MHz</p>

Remark:

1. EUT pre-scanned data rate of output power for each mode, the worst data rate were recorded in this report.

3.2 THE WORST MODE OF MEASUREMENT

Radiated Emission Measurement Above 1G	
Test Condition	Radiated Emission Above 1G
Power supply Mode	Mode 1: EUT power by DC
Worst Mode	<input checked="" type="checkbox"/> Mode 1 <input type="checkbox"/> Mode 2 <input type="checkbox"/> Mode 3 <input type="checkbox"/> Mode 4
Worst Position	<input type="checkbox"/> Placed in fixed position. <input checked="" type="checkbox"/> Placed in fixed position at X-Plane (E2-Plane) <input type="checkbox"/> Placed in fixed position at Y-Plane (E1-Plane) <input type="checkbox"/> Placed in fixed position at Z-Plane (H-Plane)

Radiated Emission Measurement Below 1G	
Test Condition	Radiated Emission Below 1G
Power supply Mode	Mode 1: EUT power by DC
Worst Mode	<input checked="" type="checkbox"/> Mode 1 <input type="checkbox"/> Mode 2 <input type="checkbox"/> Mode 3 <input type="checkbox"/> Mode 4

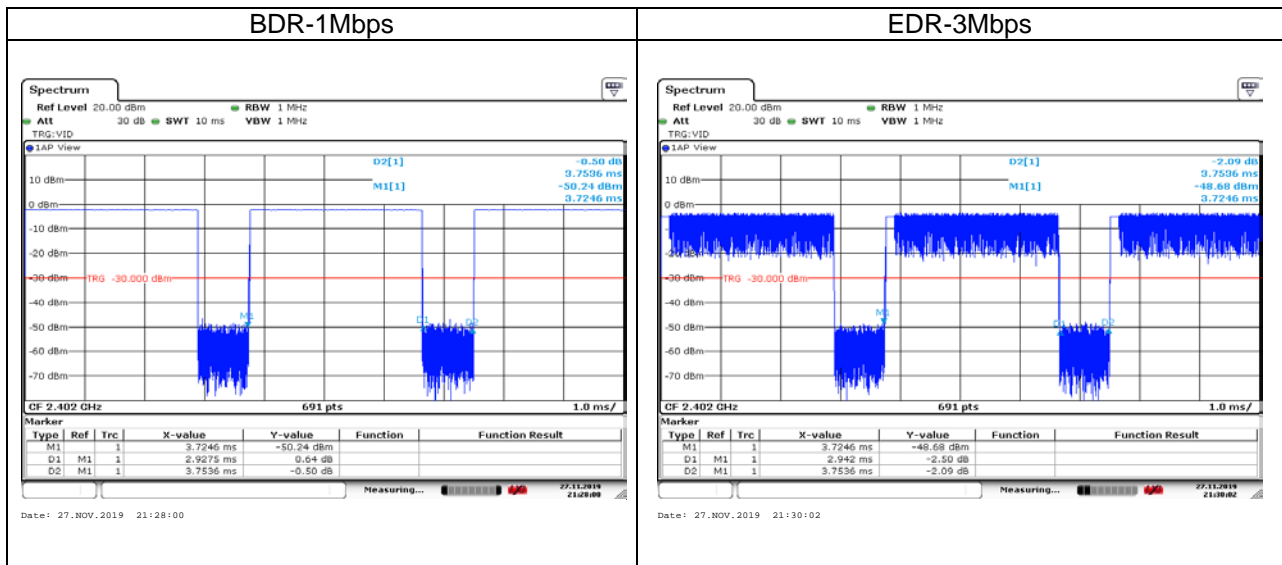
Remark:

1. The worst mode was record in this test report.
2. EUT pre-scanned in three axis ,X,Y, Z and two polarity, for radiated measurement. The worst case(X-Plane) were recorded in this report

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3.3 EUT DUTY CYCLE

Duty Cycle				
Configuration	Duty Cycle (%)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
BDR-1Mbps	77.99	1.08	0.34	1.00
EDR-3Mbps	78.38	1.06	0.34	1.00



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4. TEST RESULT

4.1 AC POWER LINE CONDUCTED EMISSION

4.1.1 Test Limit

According to §15.207(a),

Frequency Range (MHz)	Limits(dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

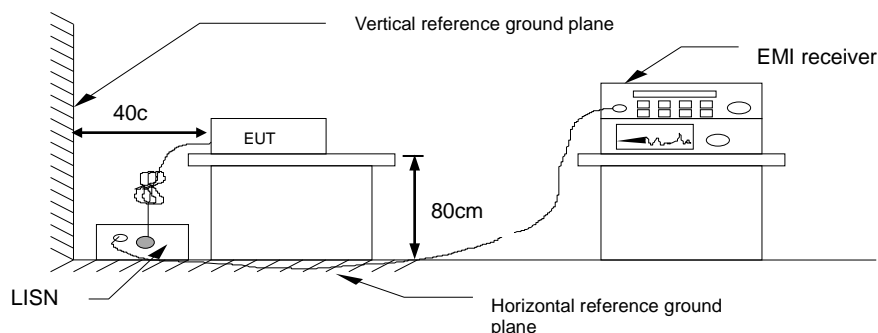
* Decreases with the logarithm of the frequency.

4.1.2 Test Procedure

Test method Refer as ANSI C63.10: 2013 clause 6.2,

1. The EUT was placed on a non-conducted table, which is 0.8m above horizontal ground plane and 0.4m above vertical ground plane.
2. EUT connected to the line impedance stabilization network (LISN)
3. Receiver set RBW of 9kHz and Detector Peak, and note as quasi-peak and average.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. Recorded Line for Neutral and Line.

4.1.3 Test Setup



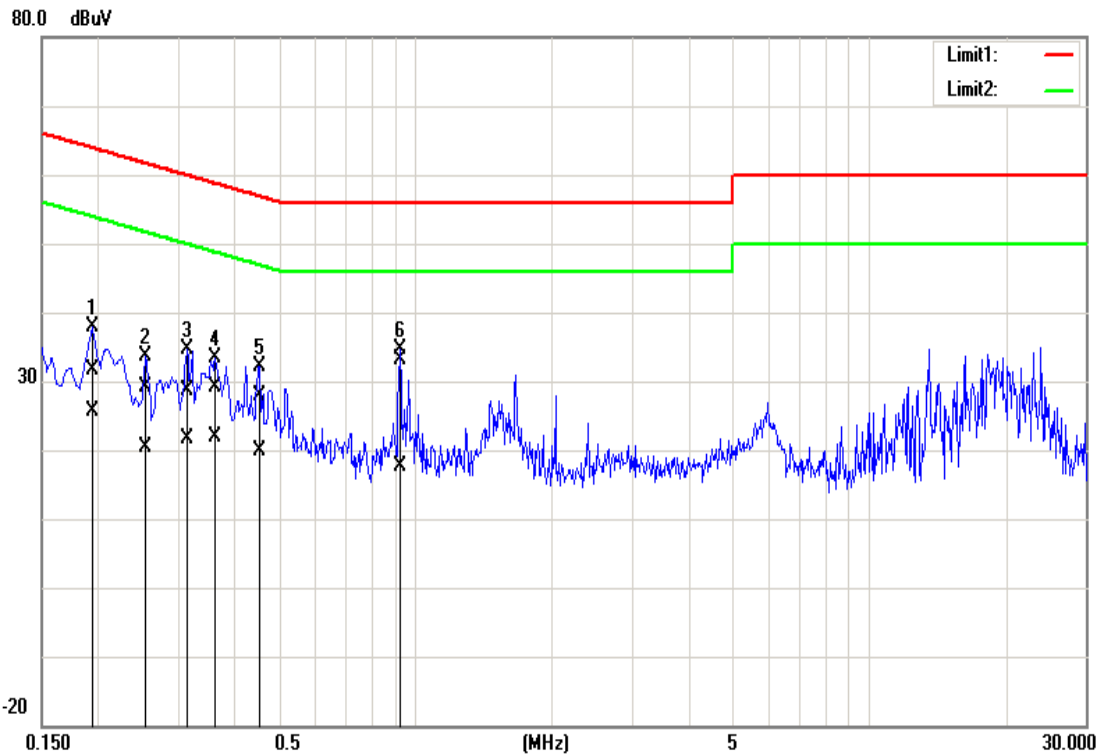
4.1.4 Test Result

PASS

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Test Data

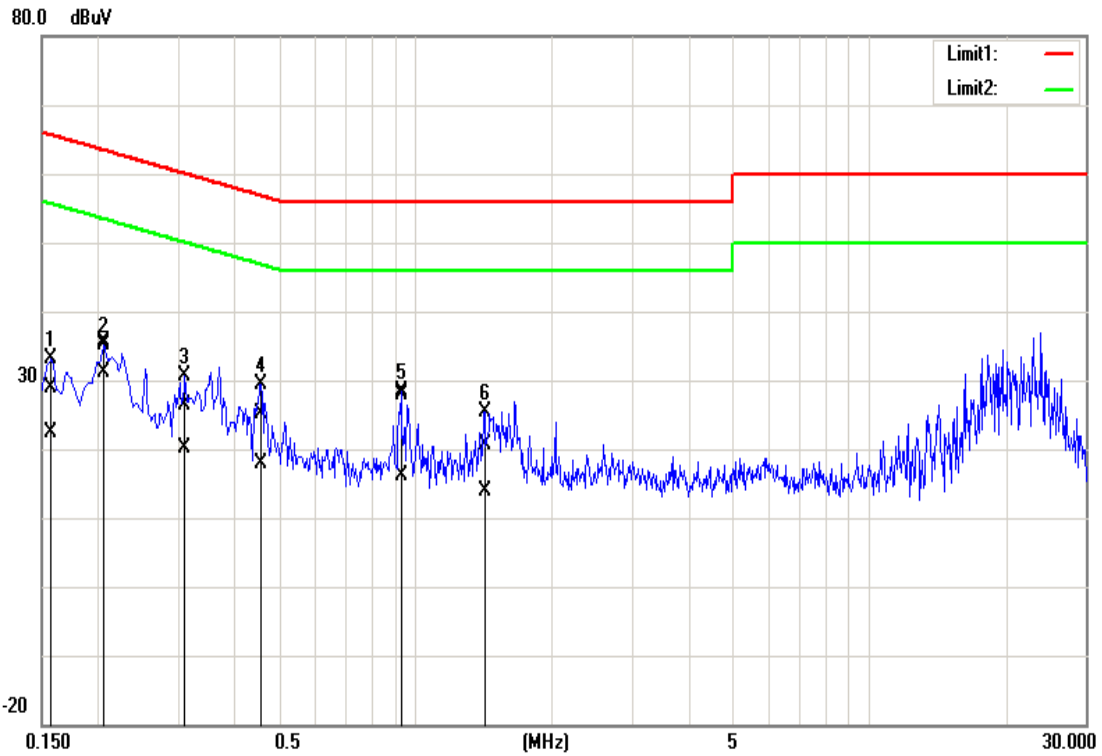
Test Mode:	Mode 1	Temp/Hum	24(°C)/ 50%RH
Phase:	Line	Test Date	November 26, 2019
		Test Engineer	Dally Hong



Frequency (MHz)	Quasi Peak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	Quasi Peak result (dBuV)	Average result (dBuV)	Quasi Peak limit (dBuV)	Average limit (dBuV)	Quasi Peak margin (dB)	Average margin (dB)	Remark
0.1940	21.49	15.47	10.13	31.62	25.60	63.86	53.86	-32.24	-28.26	Pass
0.2540	18.94	10.17	10.13	29.07	20.30	61.63	51.63	-32.56	-31.33	Pass
0.3140	18.43	11.52	10.14	28.57	21.66	59.86	49.86	-31.29	-28.20	Pass
0.3620	19.00	11.73	10.14	29.14	21.87	58.68	48.68	-29.54	-26.81	Pass
0.4540	17.80	9.86	10.14	27.94	20.00	56.80	46.80	-28.86	-26.80	Pass
0.9260	22.86	7.38	10.17	33.03	17.55	56.00	46.00	-22.97	-28.45	Pass

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Test Mode:	Mode 1	Temp/Hum	24(°C)/ 50%RH
Phase:	Neutral	Test Date	November 26, 2019
		Test Engineer	Dally Hong



Frequency (MHz)	Quasi Peak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	Quasi Peak result (dBuV)	Average result (dBuV)	Quasi Peak limit (dBuV)	Average limit (dBuV)	Quasi Peak margin (dB)	Average margin (dB)	Remark
0.1580	18.95	12.37	10.02	28.97	22.39	65.57	55.57	-36.60	-33.18	Pass
0.2060	25.67	21.00	10.02	35.69	31.02	63.37	53.37	-27.68	-22.35	Pass
0.3100	16.35	10.08	10.03	26.38	20.11	59.97	49.97	-33.59	-29.86	Pass
0.4580	15.13	7.76	10.03	25.16	17.79	56.73	46.73	-31.57	-28.94	Pass
0.9300	17.83	6.07	10.04	27.87	16.11	56.00	46.00	-28.13	-29.89	Pass
1.4220	10.63	3.86	10.04	20.67	13.90	56.00	46.00	-35.33	-32.10	Pass

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4.2 20dB BANDWIDTH AND OCCUPIED BANDWIDTH (99%)

4.2.1 Test Limit

According to §15.247(a) (1),

20 dB Bandwidth : For reporting purposes only.

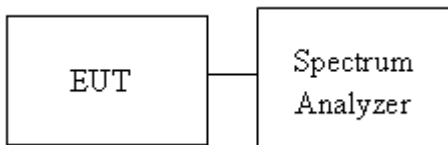
Occupied Bandwidth(99%) : For reporting purposes only.

4.2.2 Test Procedure

Test method Refer as ANSI C63.10: 2013 clause 7.8.7,

1. The EUT RF output connected to the spectrum analyzer by RF cable.
2. Setting maximum power transmit of EUT
3. SA set RBW = 30kHz, VBW = 100kHz and Detector = Peak, to measurement 20 dB Bandwidth and 99% Bandwidth.
4. Measure and record the result of 20 dB Bandwidth and 99% Bandwidth. in the test report.

4.2.3 Test Setup



4.2.4 Test Result

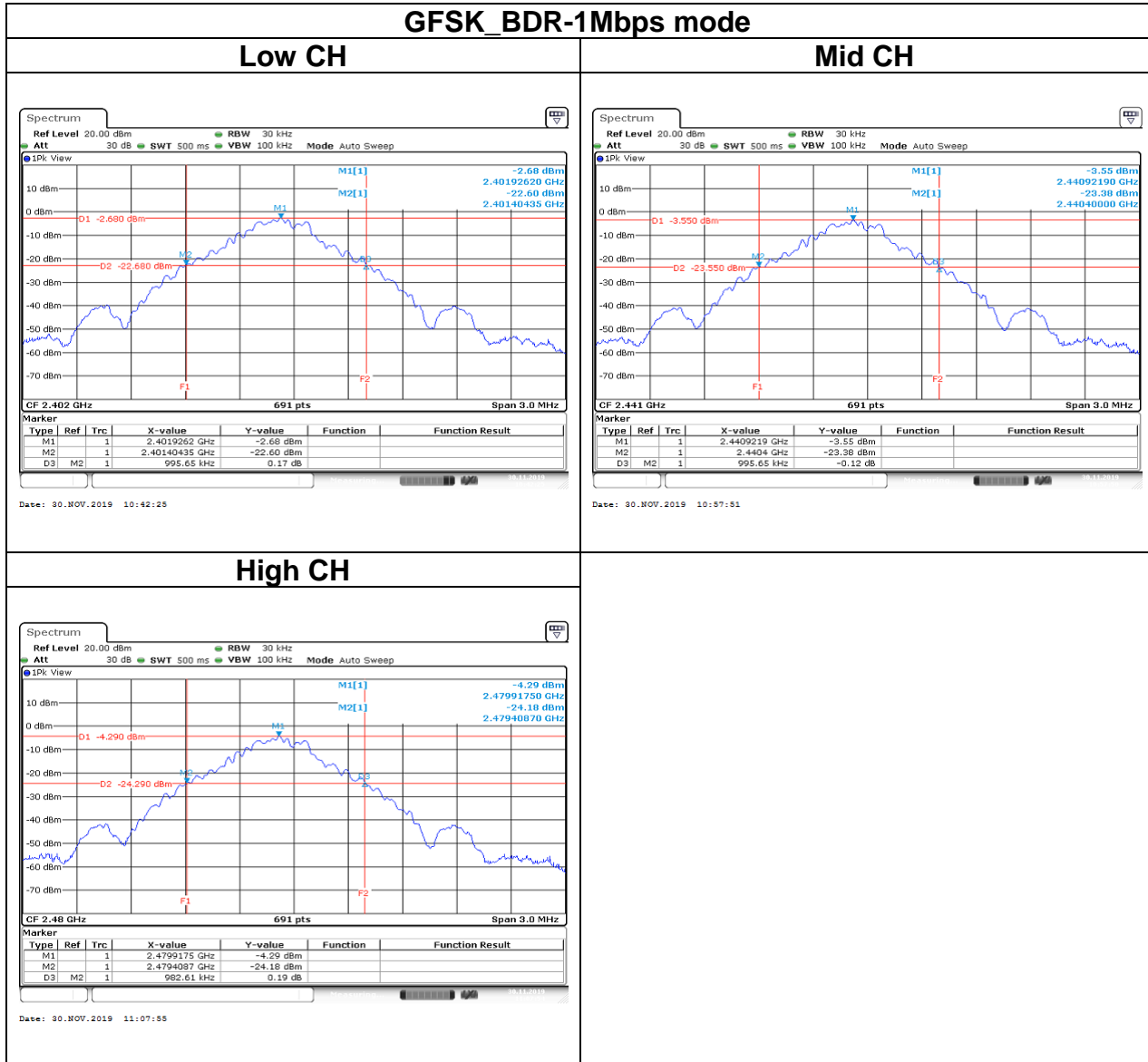
Test mode: GFSK_BDR-1Mbps mode / 2402-2480 MHz			
Channel	Frequency (MHz)	OBW(99%) (MHz)	20dB BW (MHz)
Low	2402	0.8987	0.9957
Mid	2441	0.8987	0.9957
High	2480	0.9030	0.9826

Test mode: 8DPSK_EDR-3Mbps mode / 2402-2480 MHz			
Channel	Frequency (MHz)	OBW(99%) (MHz)	20dB BW (MHz)
Low	2402	1.1809	1.2913
Mid	2441	1.1809	1.2913
High	2480	1.1809	1.2913

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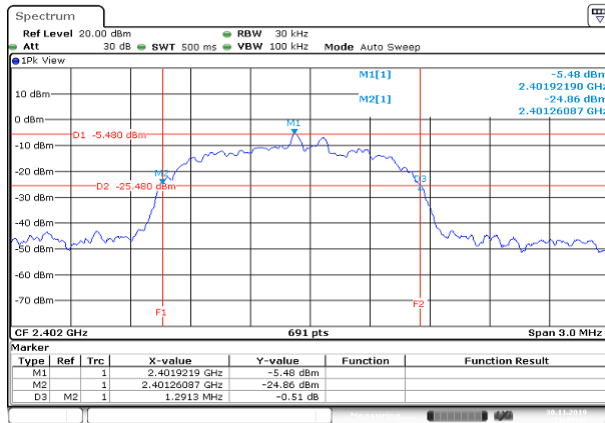
Test Data

20dB BANDWIDTH



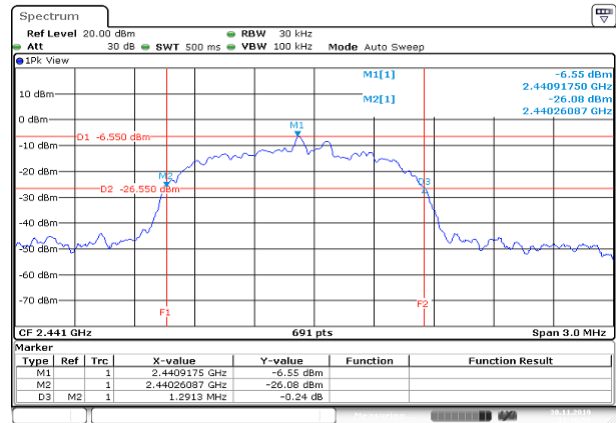
8DPSK_EDR-3Mbps mode

Low CH



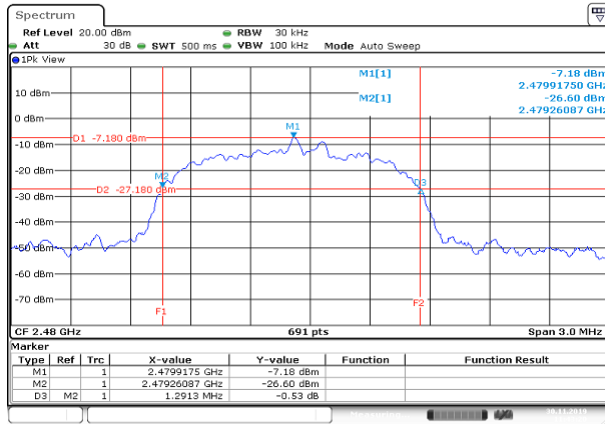
Date: 30.NOV.2019 11:19:50

Mid CH



Date: 30.NOV.2019 11:36:56

High CH

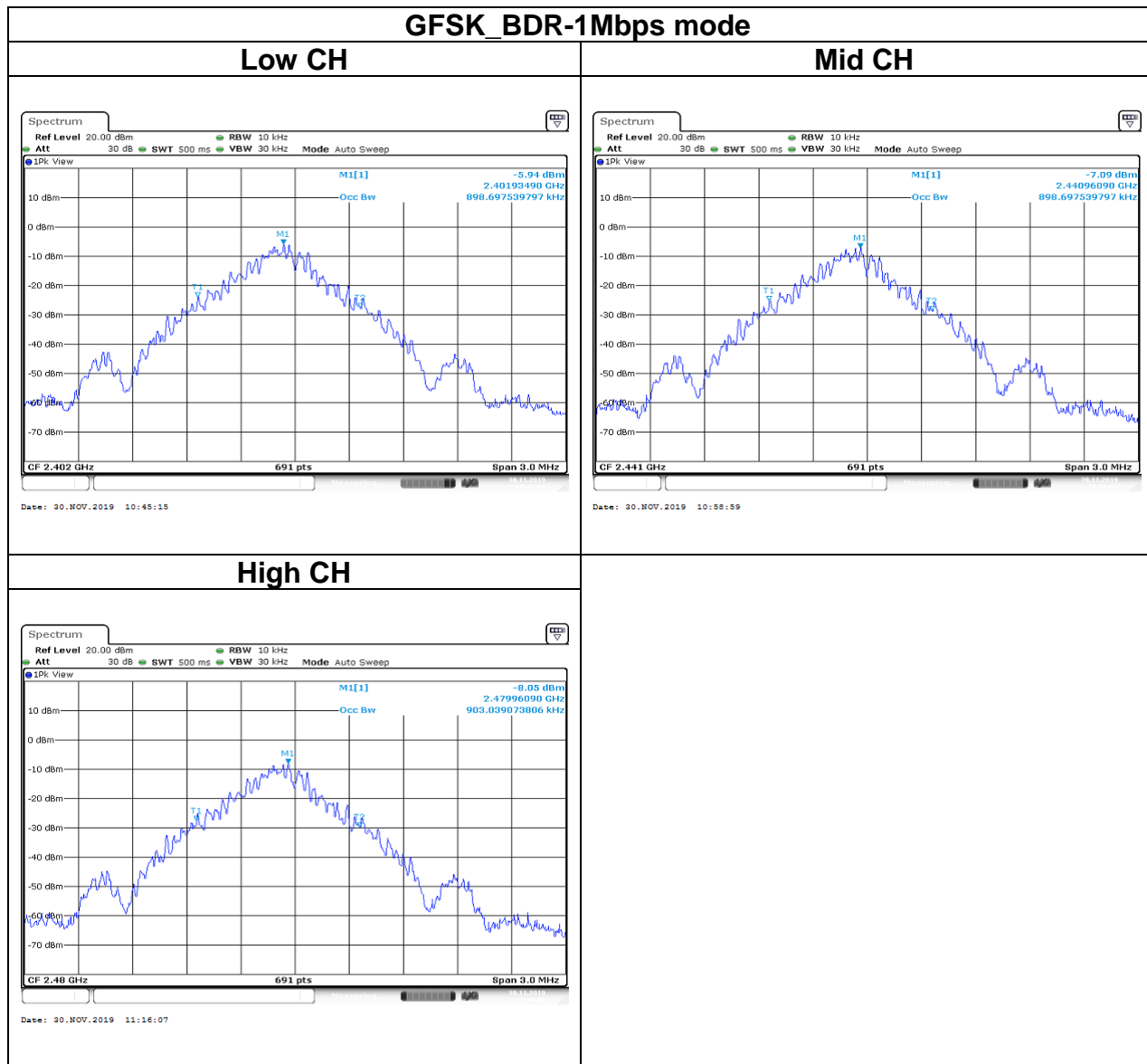


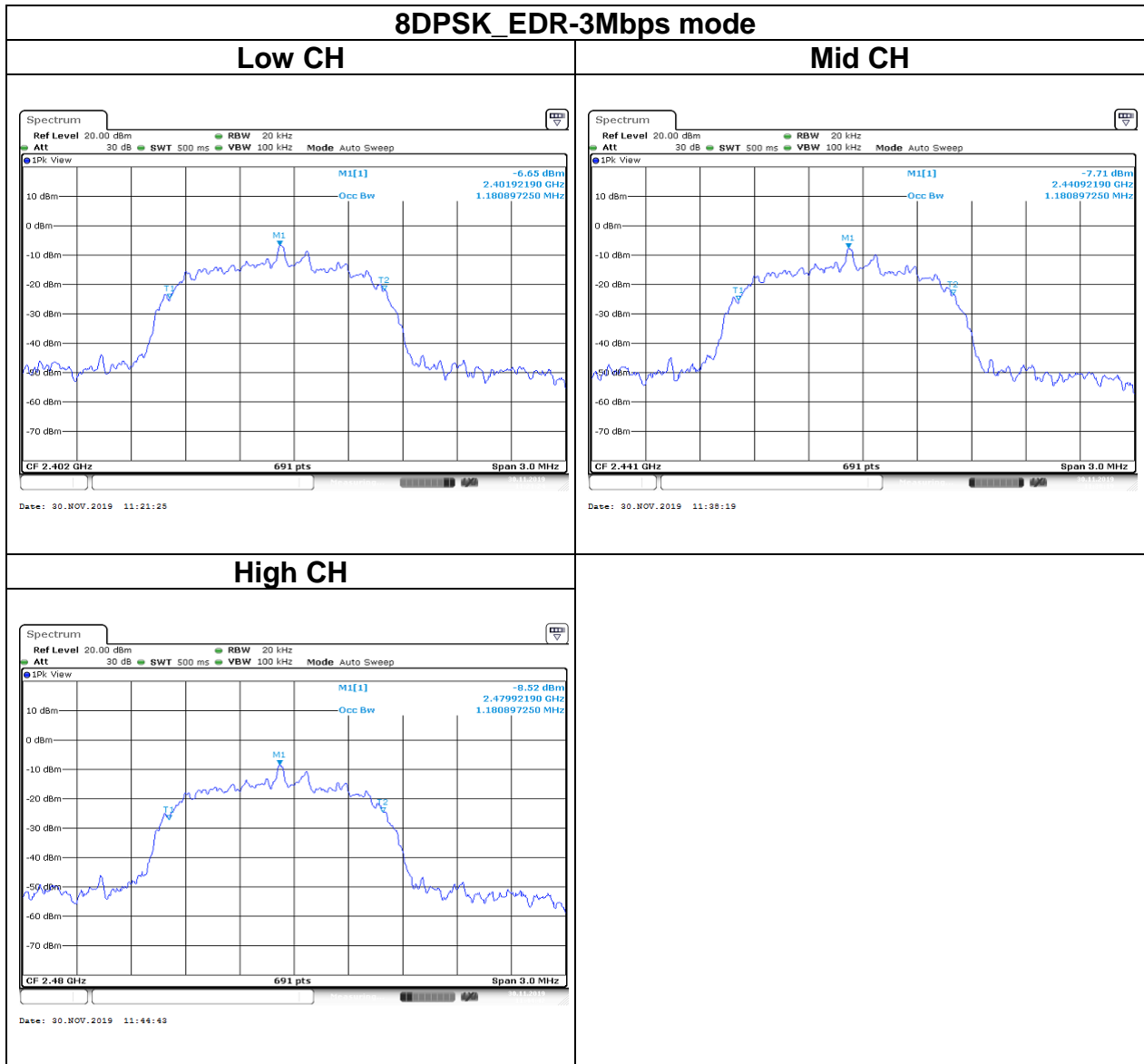
Date: 30.NOV.2019 11:43:21

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Test Data

BANDWIDTH 99%





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4.3 OUTPUT POWER MEASUREMENT

4.3.1 Test Limit

According to §15.247(a)(1)

Peak output power :

FCC

Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

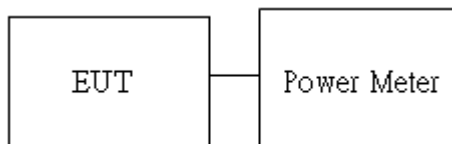
Limit	<input checked="" type="checkbox"/> Antenna not exceed 6 dBi : 21dBm <input type="checkbox"/> Antenna with DG greater than 6 dBi : 21dBm [Limit = 30 – (DG – 6)]
-------	--

Average output power : For reporting purposes only.

4.3.2 Test Procedure

1. The EUT RF output connected to the power meter by RF cable.
2. Setting maximum power transmit of EUT.
3. The path loss was compensated to the results for each measurement.
4. Measure and record the result of Peak output power and Average output power. in the test report.

4.3.3 Test Setup



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4.3.4 Test Result

Peak output power :

BT							
Config.	CH	Freq. (MHz)	Power setting	PK Power (dBm)	PK Power (W)	DG (dBi)	Limit (dBm)
GFSK BR-1Mbps (DH5)	0	2402	9	10.24	0.0106	3.73	21
	39	2441	9	10.17	0.0104		
	78	2480	9	9.84	0.0096		
8DPSK EDR- 3Mbps (3DH5)	0	2402	7	7.62	0.0058		
	39	2441	7	7.21	0.0053		
	78	2480	8	7.68	0.0059		

Average output power :

BT				
Config.	CH	Freq. (MHz)	Power setting	AV Power (dBm)
GFSK BR-1Mbps (DH5)	0	2402	9	10.06
	39	2441	9	10.00
	78	2480	9	9.64
8DPSK EDR- 3Mbps (3DH5)	0	2402	7	7.26
	39	2441	7	6.95
	78	2480	8	7.32

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4.4 FREQUENCY SEPARATION

4.4.1 Test Limit

According to §15.247(a)(1)

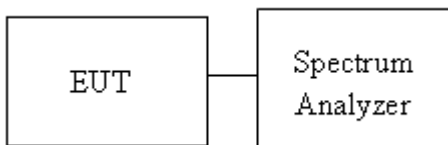
Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

Limit	> two-thirds of the 20 dB bandwidth
-------	-------------------------------------

4.4.2 Test Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. EUT RF output port connected to the SA by RF cable.
3. Set the spectrum analyzer as RBW = 100kHz, VBW = 300kHz, Sweep = auto.
Max hold, mark 3 peaks of hopping channel and record the 3 peaks frequency

4.4.3 Test Setup



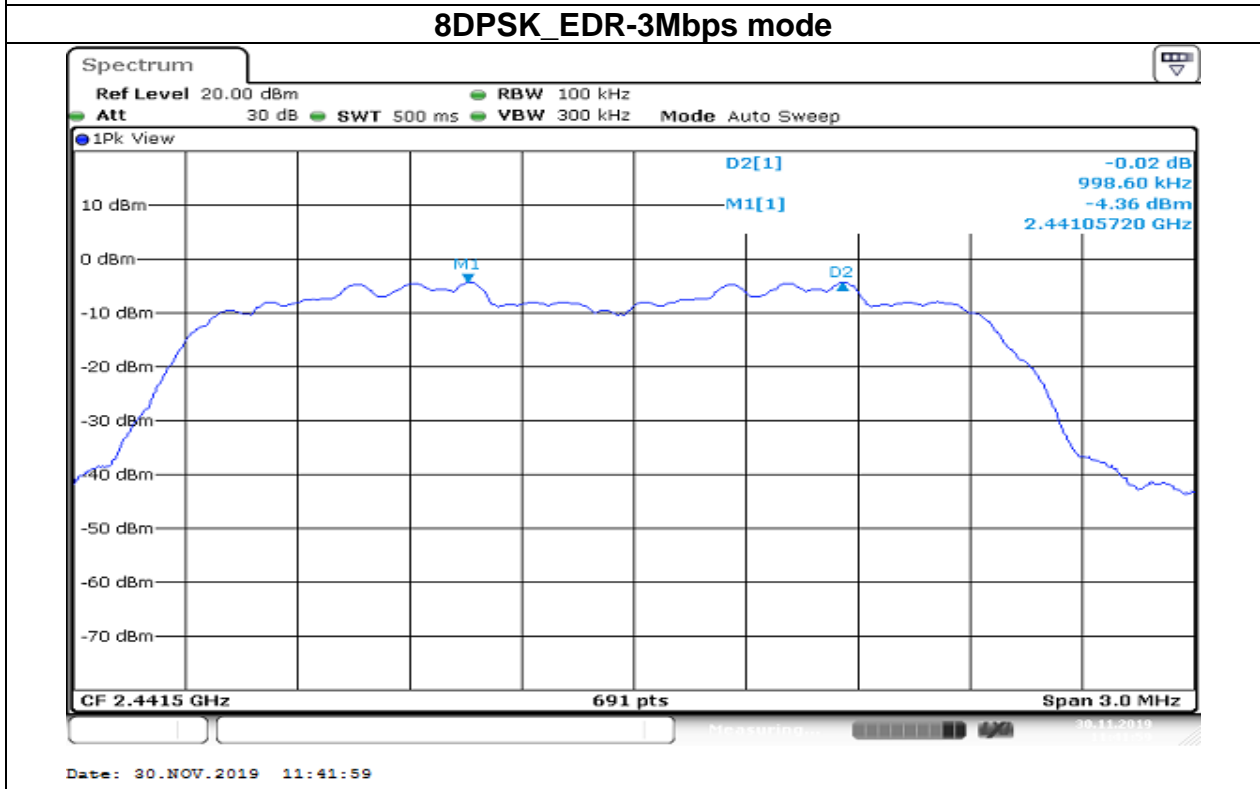
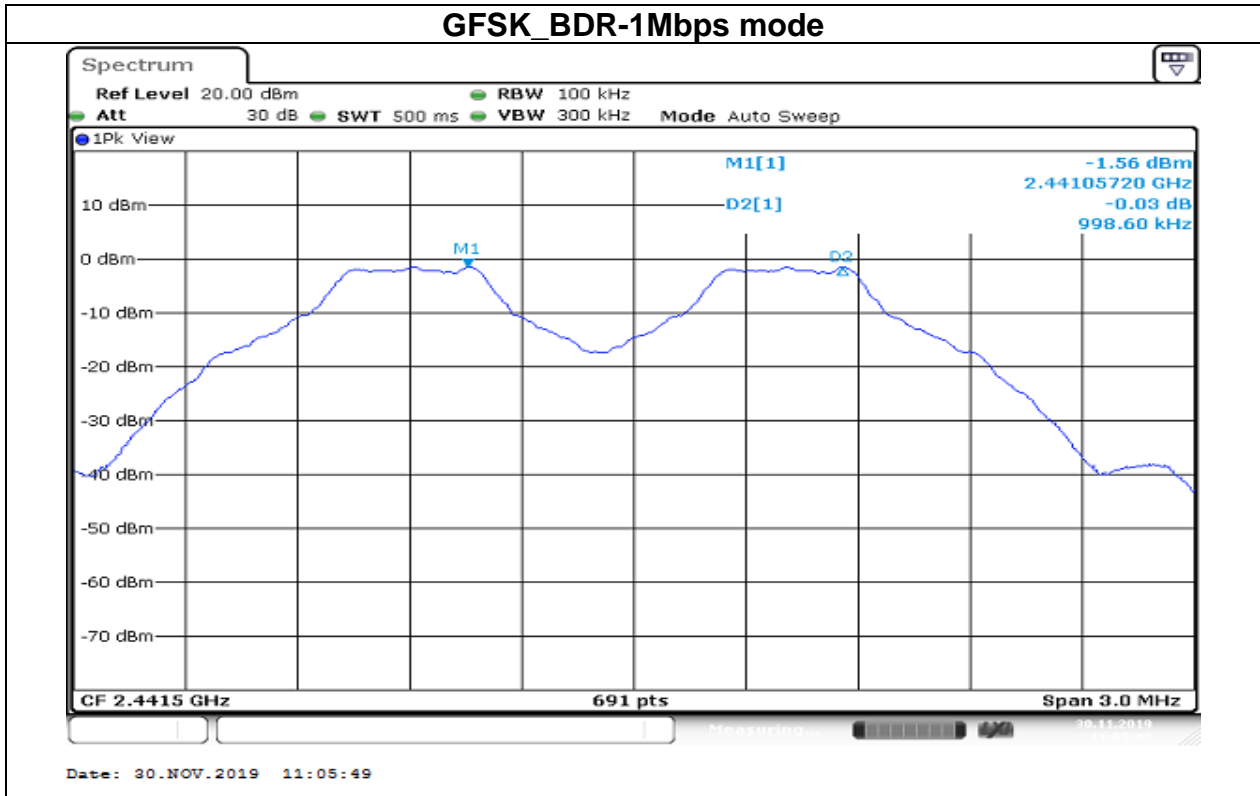
Report No.: T191111W02-RP2

4.4.4 Test Result

Test mode: GFSK_BDR-1Mbps mode / 2402-2480 MHz				
Channel	Frequency (MHz)	Channel Separation (MHz)	Channel Separation Limits (MHz)	Result
Low	2402	0.9986	0.664	PASS
Mid	2441	0.9986	0.664	PASS
High	2480	0.9986	0.655	PASS

Test mode: 8DPSK_EDR-3Mbps mode / 2402-2480 MHz				
Channel	Frequency (MHz)	Channel Separation (MHz)	Channel Separation Limits (MHz)	Result
Low	2402	0.9986	0.861	PASS
Mid	2441	0.9986	0.861	PASS
High	2480	0.9986	0.861	PASS

Test Data



Note: We selected worst case to performed test in middle channel, The results can be meet other channel.

Report No.: T191111W02-RP2

4.5 NUMBER OF HOPPING

4.5.1 Test Limit

According to §15.247(a)(1)(iii)

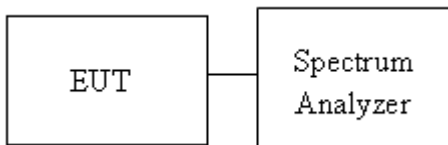
Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

4.5.2 Test Procedure

Test method Refer as ANSI C63.10: 2013 clause 7.8.3

1. Place the EUT on the table and set it in transmitting mode.
2. EUT RF output port connected to the SA by RF cable.
3. Set spectrum analyzer Start Freq. = 2400 MHz, Stop Freq. = 2483.5 MHz, RBW=100KHz, VBW = 300KHz.
4. Max hold, view and count how many channel in the band.

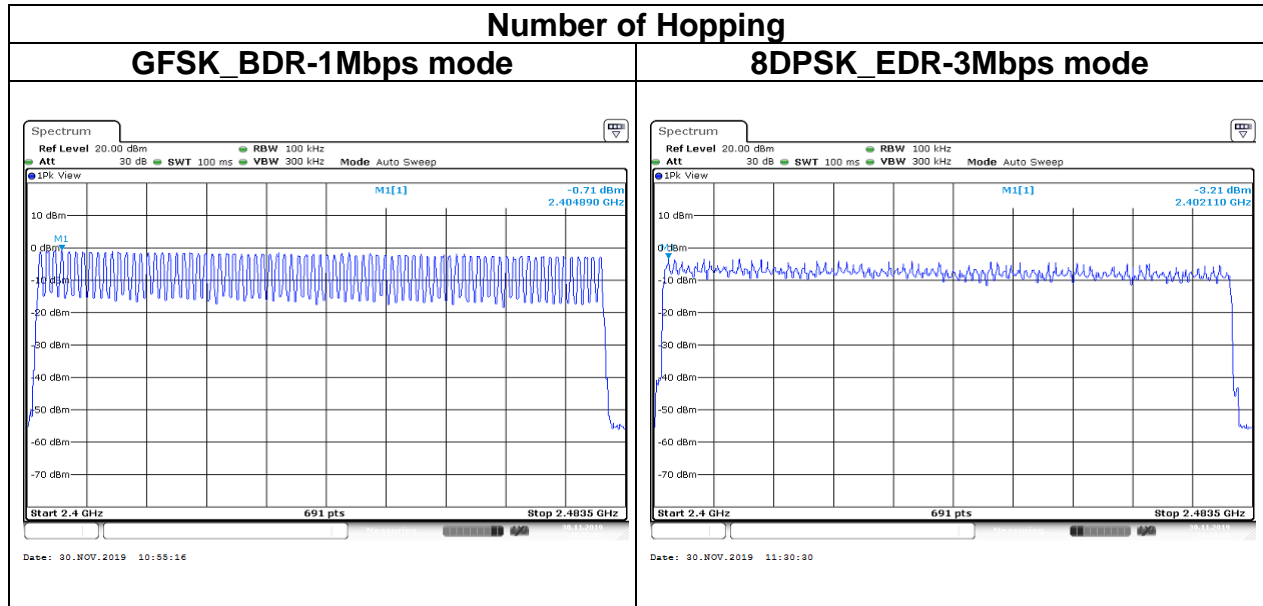
4.5.3 Test Setup



4.5.4 Test Result

Number of Hopping				
Mode	Frequency (MHz)	Hopping Channel Number	Hopping Channel Number Limits	Result
BDR-1Mbps	2402-2480	79	15	Pass
EDR-3Mbps	2402-2480	79	15	

Test Data



Report No.: T191111W02-RP2

4.6 CONDUCTED BANDEDGE AND SPURIOUS EMISSION

4.6.1 Test Limit

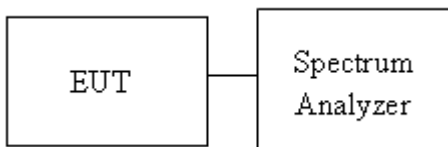
According to §15.247(d)

Limit	-20 dBc
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4.6.2 Test Procedure

1. EUT RF output port connected to the SA by RF cable, and the path loss was compensated to result.
2. SA setting, RBW=100kHz, VBW=300kHz, Detector=Peak, Trace mode = max hold, SWT = Auto.
3. The Band Edge at 2.4GHz and 2.4835GHz are investigated with both hopping "ON" and "OFF" modes ".

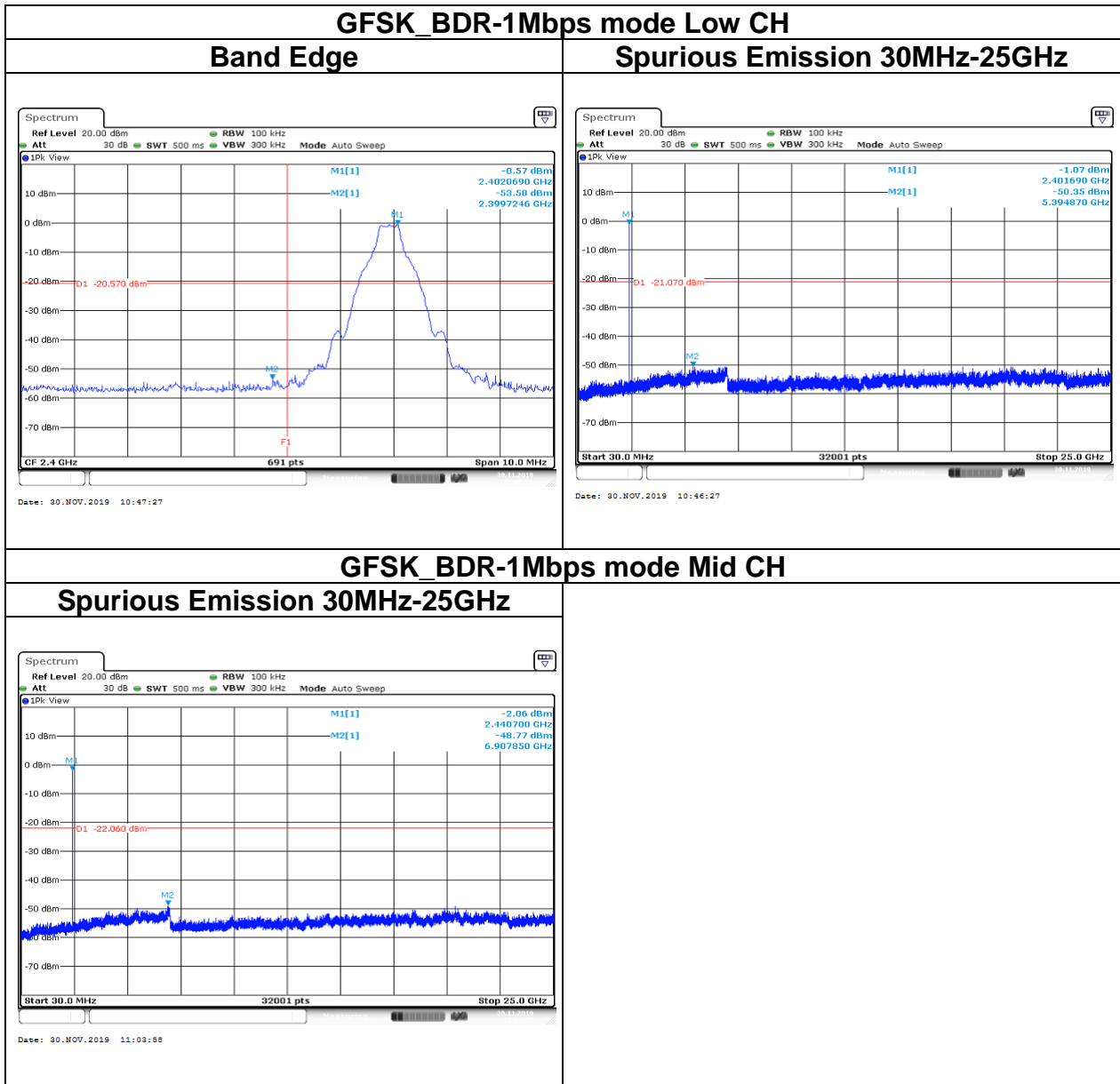
4.6.3 Test Setup

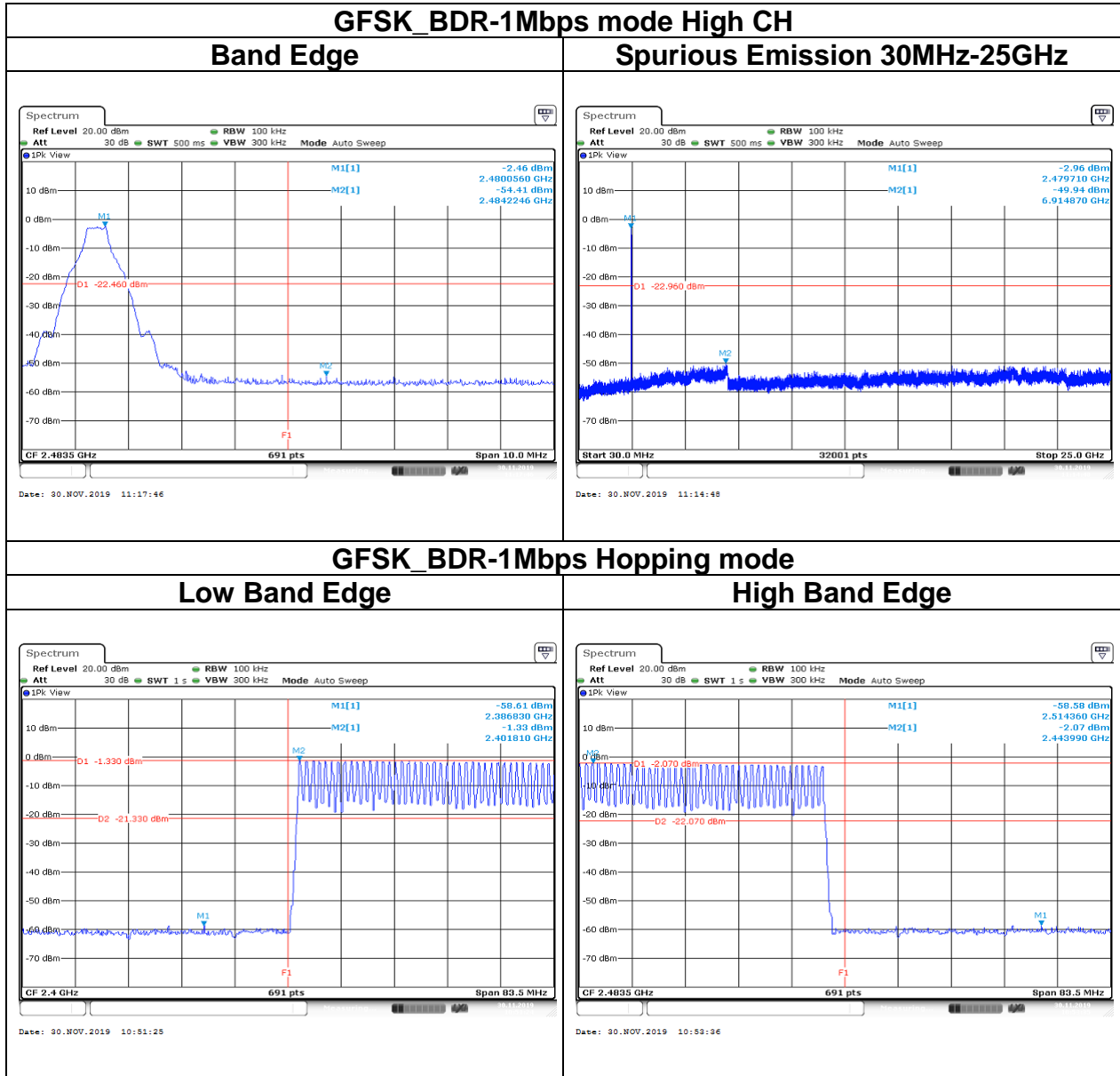


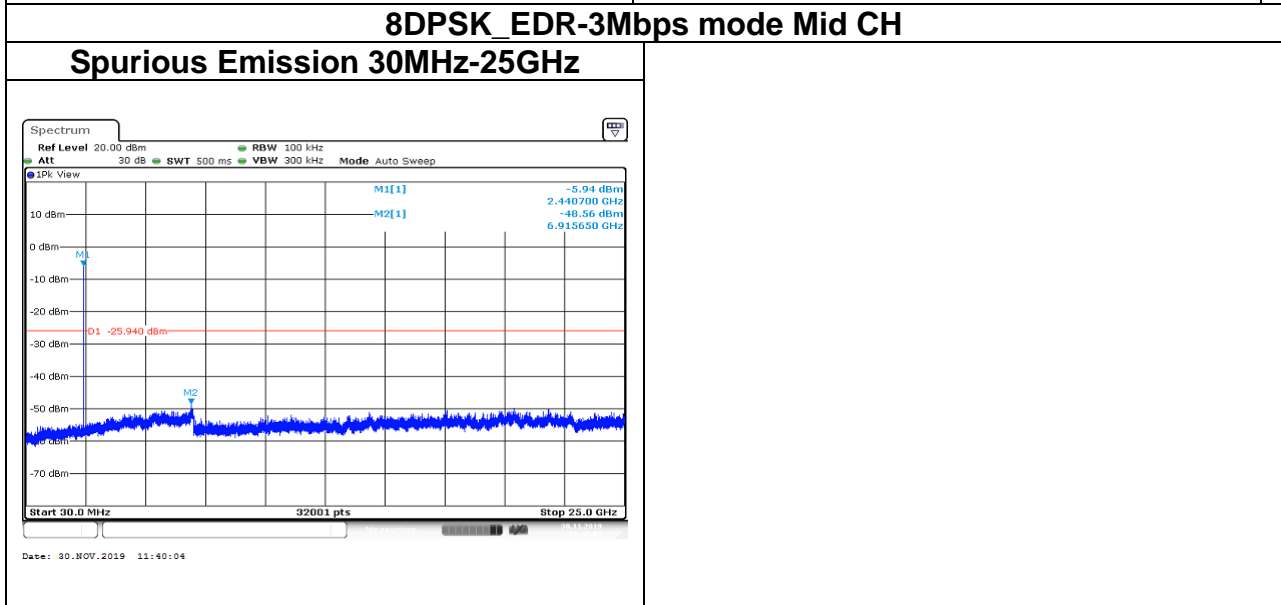
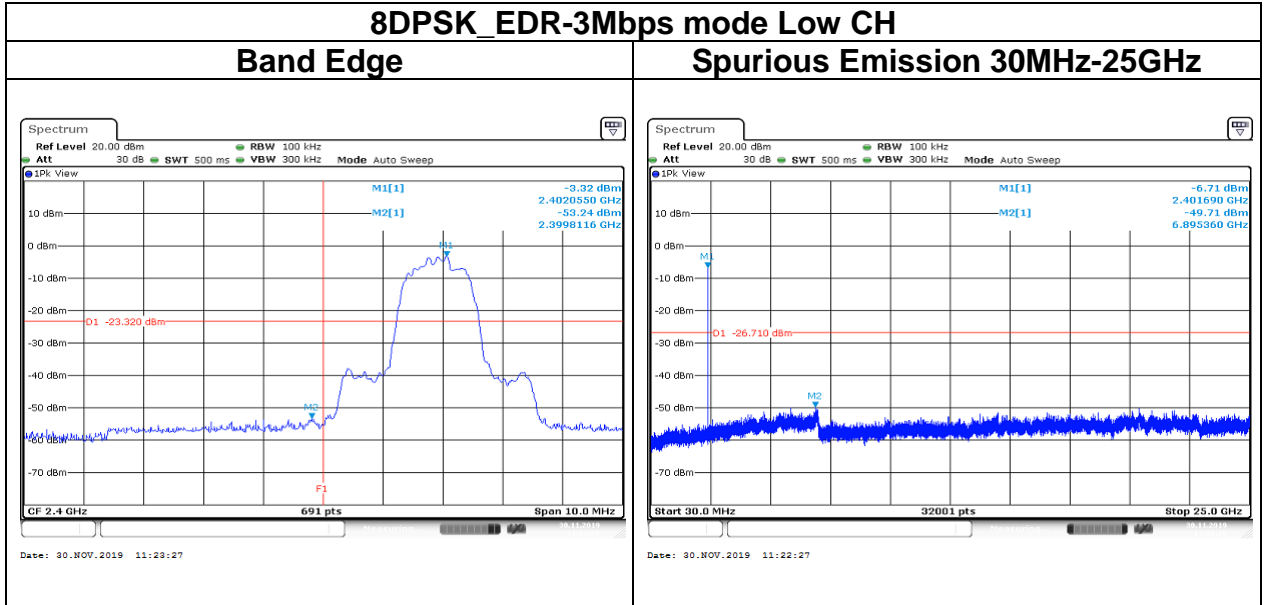
Report No.: T191111W02-RP2

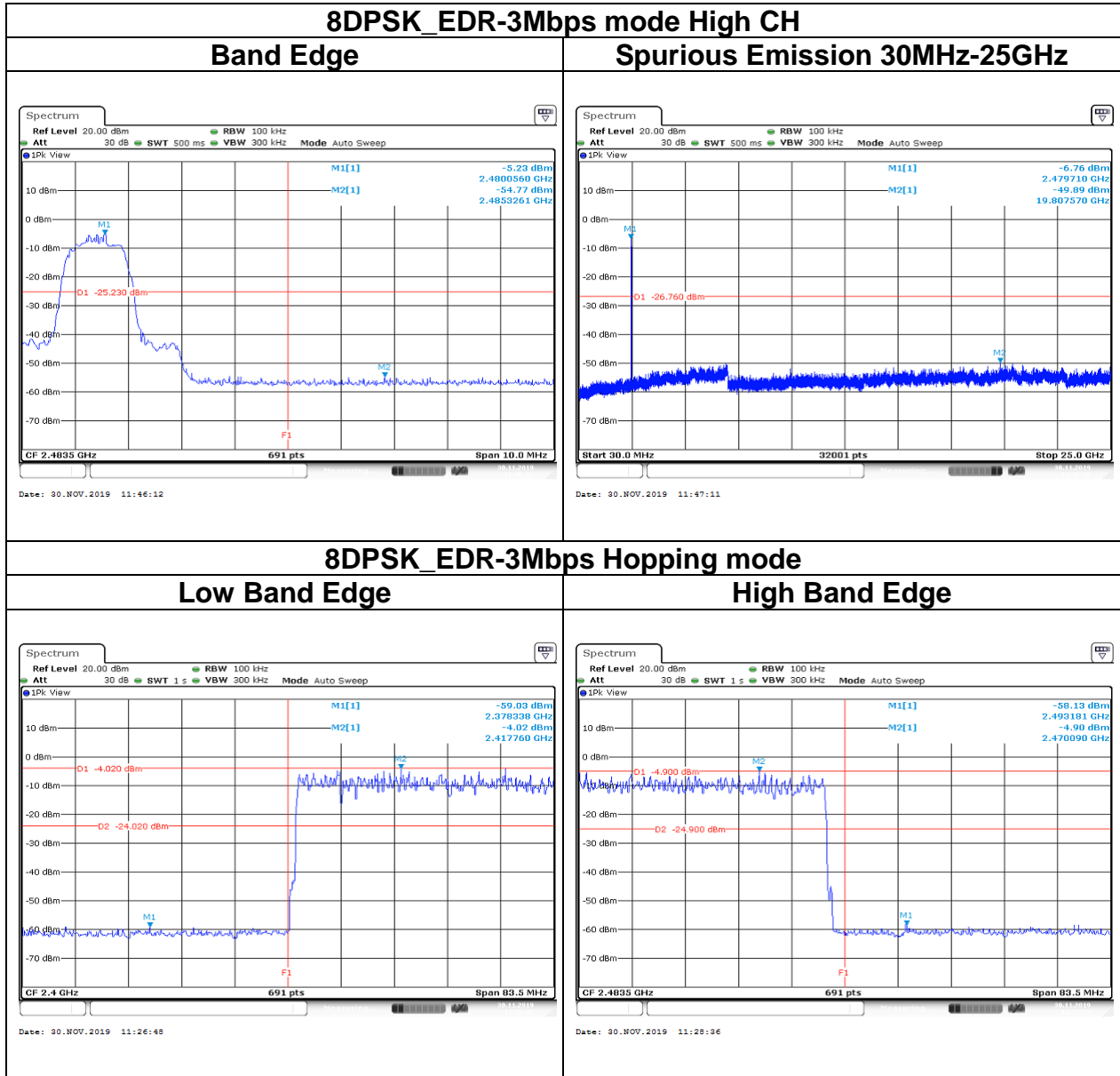
4.6.4 Test Result

Test Data









Report No.: T191111W02-RP2

4.7 TIME OF OCCUPANCY (DWELL TIME)

4.7.1 Test Limit

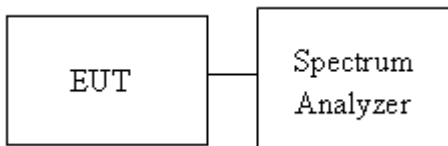
According to §15.247(a)(1)(iii)

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

4.7.2 Test Procedure

1. EUT RF output port connected to the SA by RF cable.
2. Set center frequency of spectrum analyzer = operating frequency.
3. Set the spectrum analyzer as RBW, VBW=1MHz, Sweep = 1 ms

4.7.3 Test Setup

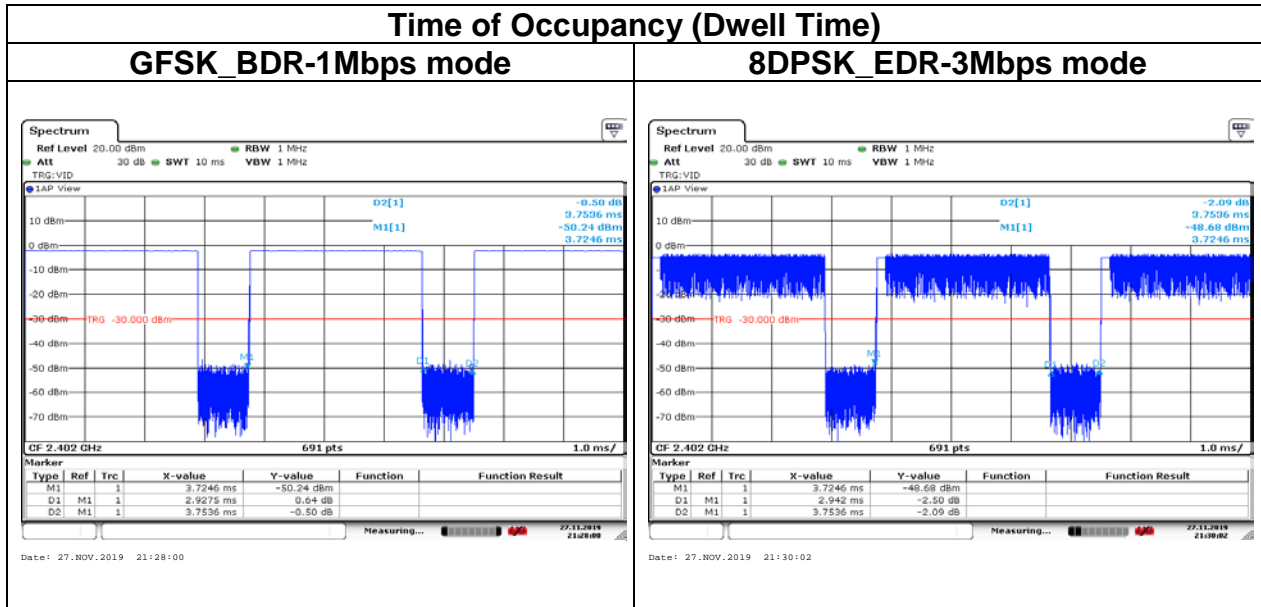


4.7.4 Test Result

Time of Occupancy (Dwell Time)							
Mode	Frequency (MHz)	Pulse Time Per Hopping (ms)	Minimum Number of Hopping Freq.	Number of pulse in	Dwell Time IN	Dwell Time Limits (s)	Result
				(0.4 * N sec)	(0.4 * N sec)		
BDR-1Mbps	2402	2.9275	79	106.67	0.3123	0.4	Pass
EDR-3Mbps	2402	2.9420	79	106.67	0.3138	0.4	

Non-AFH: DH5 Packet permit maximum $1600 / 79 / 6 = 3.37$ hops per second in each channel (5 time slots RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times $3.37 * 0.4 * 79 = 106.6$

Test Data



4.8 RADIATION BANDEDGE AND SPURIOUS EMISSION

4.8.1 Test Limit

FCC according to §15.247(d), §15.209 and §15.205,

In any 100 kHz bandwidth outside the authorized frequency band, all harmonic and spurious must be least 20 dB below the highest emission level with the authorized frequency band. Radiation emission which fall in the restricted bands must also follow the FCC section 15.209 as below limit in table.

Below 30 MHz

Frequency	Field Strength (microvolts/m)	Magnetic H-Field (microamperes/m)	Measurement Distance (metres)
9-490 kHz	2,400/F (F in kHz)	2,400/F (F in kHz)	300
490-1,705 kHz	24,000/F (F in kHz)	24,000/F (F in kHz)	30
1.705-30 MHz	30	N/A	30

Above 30 MHz

Frequency (MHz)	Field Strength microvolts/m at 3 metres (watts, e.i.r.p.)	
	Transmitters	Receivers
30-88	100 (3 nW)	100 (3 nW)
88-216	150 (6.8 nW)	150 (6.8 nW)
216-960	200 (12 nW)	200 (12 nW)
Above 960	500 (75 nW)	500 (75 nW)

Remark:

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

4.8.2 Test Procedure

1. The EUT is placed on a turntable, Above 1 GHz is 1.5m and below 1 GHz is 0.8m above ground plane. The EUT Configured un accordance with ANSI C63.10: 2013, and the EUT set in a continuous mode.

2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. And EUT is set 3m away from the receiving antenna, which is scanned from 1m to 4m above the ground plane to find out the highest emissions. Measurement are made polarized in both the vertical and the horizontal positions with antenna.

3. Span shall wide enough to full capture the emission measured. The SA from 9kHz to 26.5GHz set to the low, Mid and High channels with the EUT transmit.

Note: No emission found between lowest internal used/generated frequency to 30MHz(9KHz~30MHz)

4. For harmonic, the worst case of output power was BDR-1Mbps. Therefore only BDR-1Mbps record in the report.

5. The SA setting following :

(1) Below 1G : RBW = 100kHz, VBW \geq 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.

(2) Above 1G :

(2.1) For Peak measurement : RBW = 1MHz, VBW \geq 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.

(2.2) For Average measurement : RBW = 1MHz, VBW

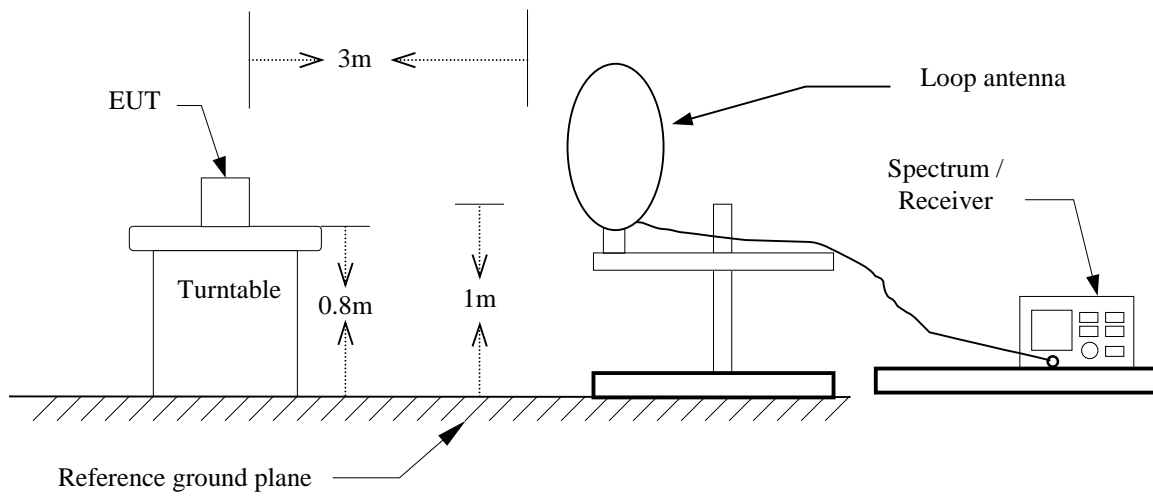
·If Duty Cycle \geq 98%, VBW=10Hz.

·If Duty Cycle < 98%, VBW \geq 1/T.

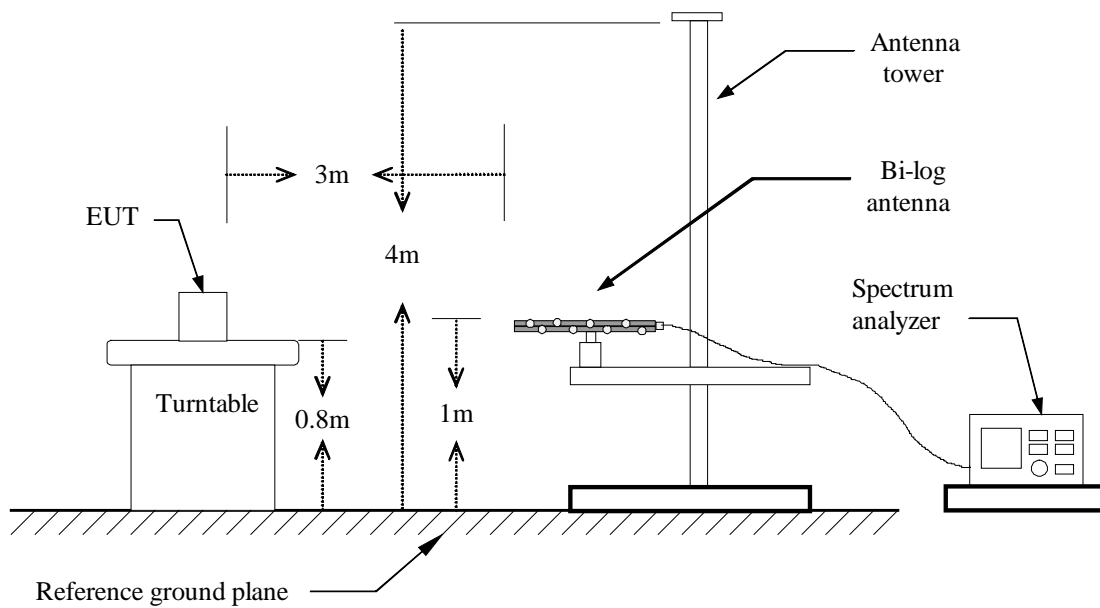
Report No.: T191111W02-RP2

4.8.3 Test Setup

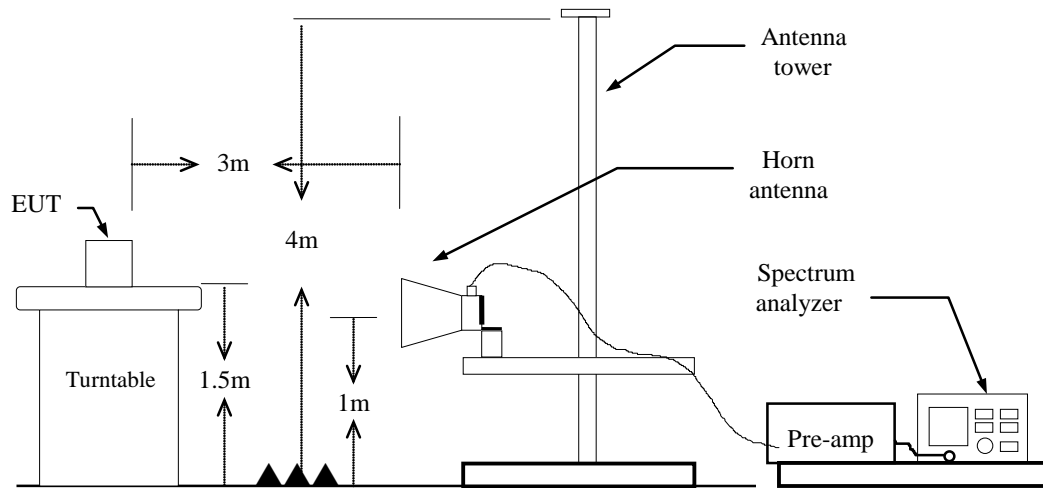
9kHz ~ 30MHz



30MHz ~ 1GHz



Above 1 GHz



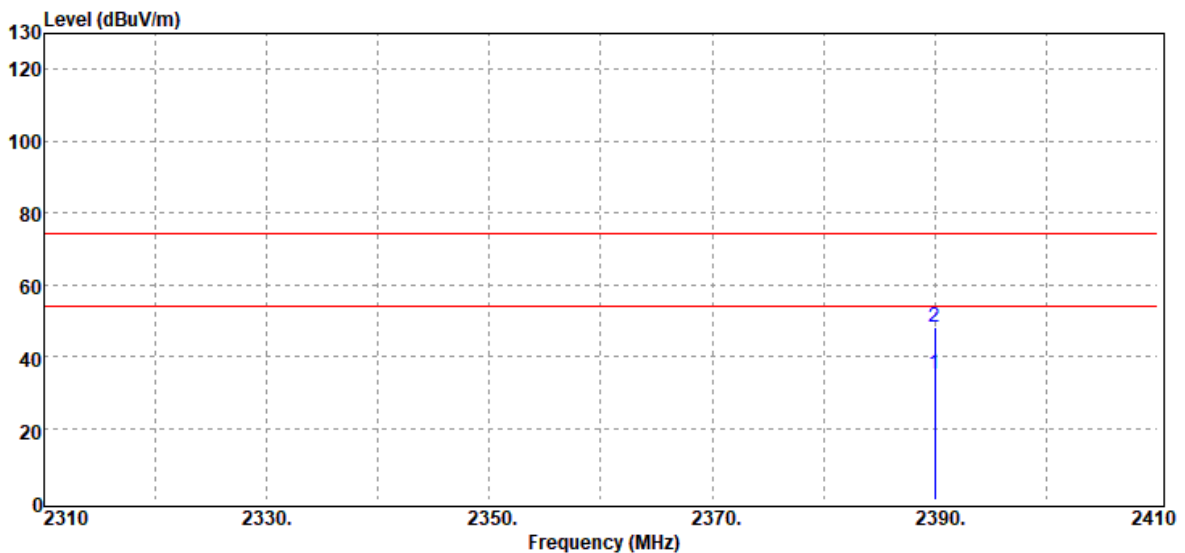
Report No.: T191111W02-RP2

4.8.4 Test Result

Band Edge Test Data

PCB Antenna

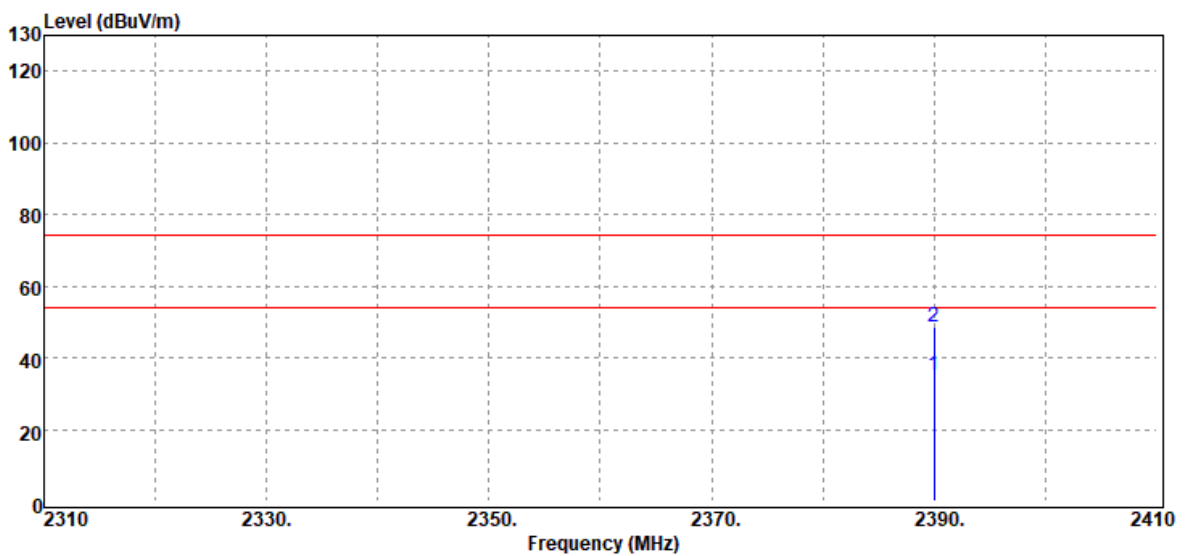
Test Mode:	GFSK_BDR-1Mbps Low CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	December 27, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	38.26	-3.38	34.88	54.00	-19.12
2390.00	Peak	51.67	-3.38	48.29	74.00	-25.71

Report No.: T191111W02-RP2

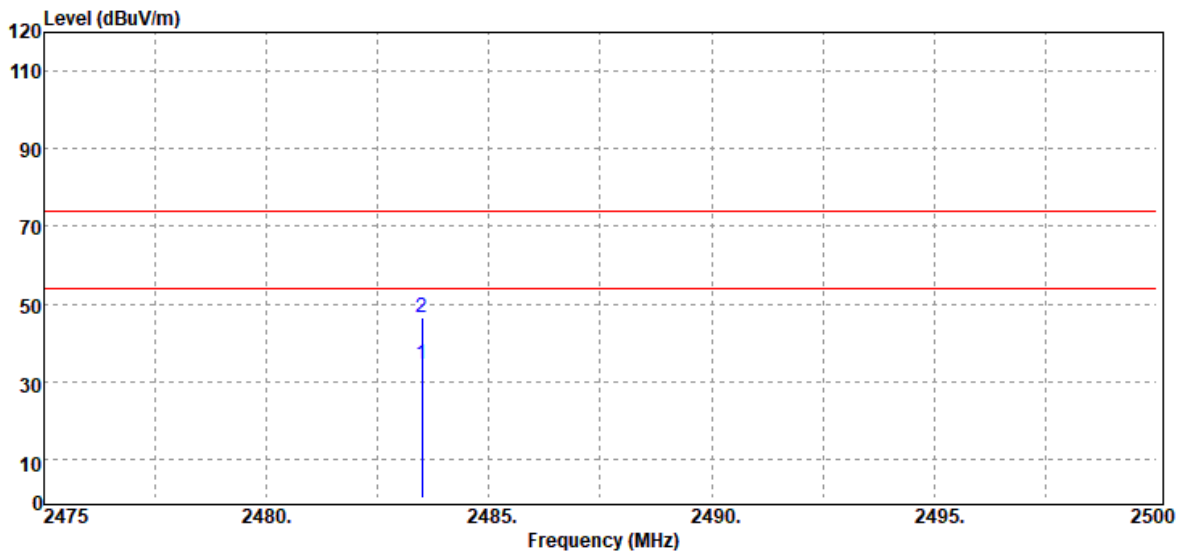
Test Mode:	GFSK_BDR-1Mbps Low CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	December 27, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	38.30	-3.38	34.92	54.00	-19.08
2390.00	Peak	52.01	-3.38	48.63	74.00	-25.37

Report No.: T191111W02-RP2

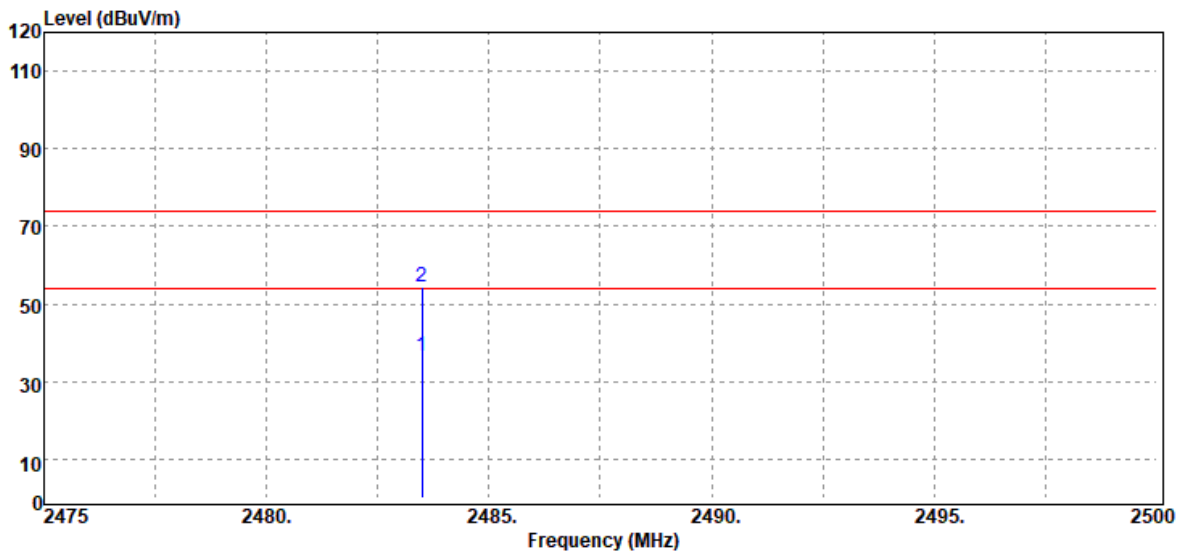
Test Mode:	GFSK_BDR-1Mbps High CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	December 27, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	37.36	-2.83	34.53	54.00	-19.47
2483.50	Peak	49.31	-2.83	46.48	74.00	-27.52

Report No.: T191111W02-RP2

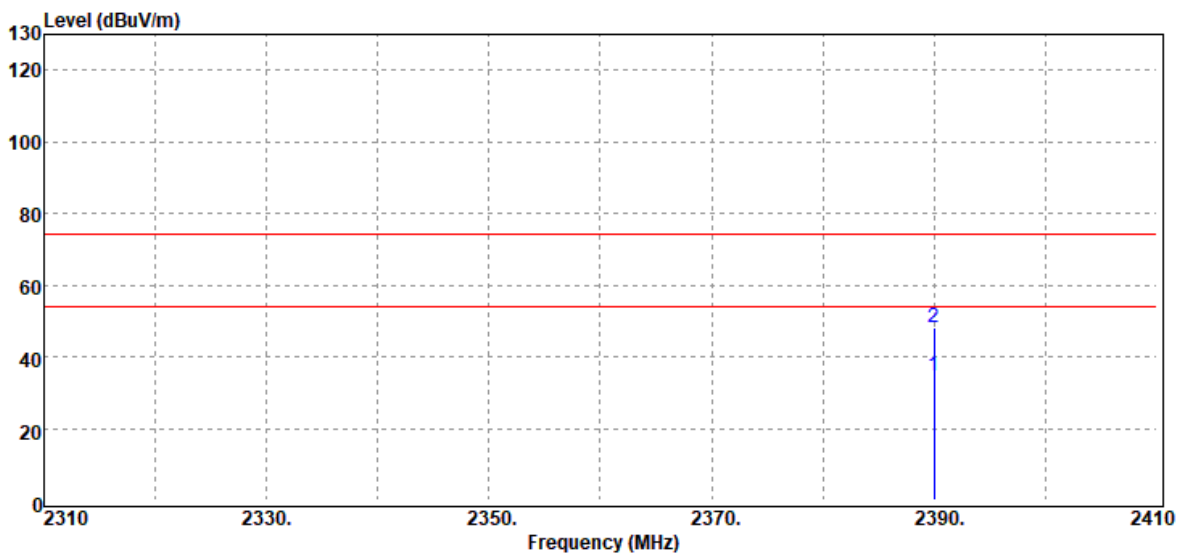
Test Mode:	GFSK_BDR-1Mbps High CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	December 27, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	39.21	-2.83	36.38	54.00	-17.62
2483.50	Peak	57.13	-2.83	54.30	74.00	-19.70

Report No.: T191111W02-RP2

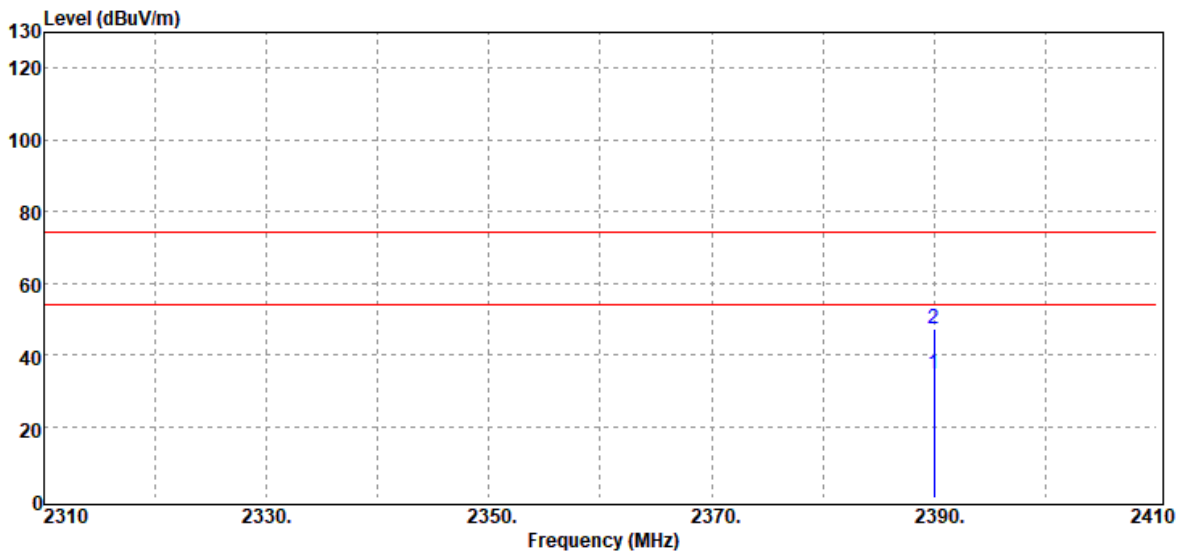
Test Mode:	GFSK_BDR-1Mbps Low CH Hopping	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	December 27, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	38.18	-3.38	34.80	54.00	-19.20
2390.00	Peak	51.52	-3.38	48.14	74.00	-25.86

Report No.: T191111W02-RP2

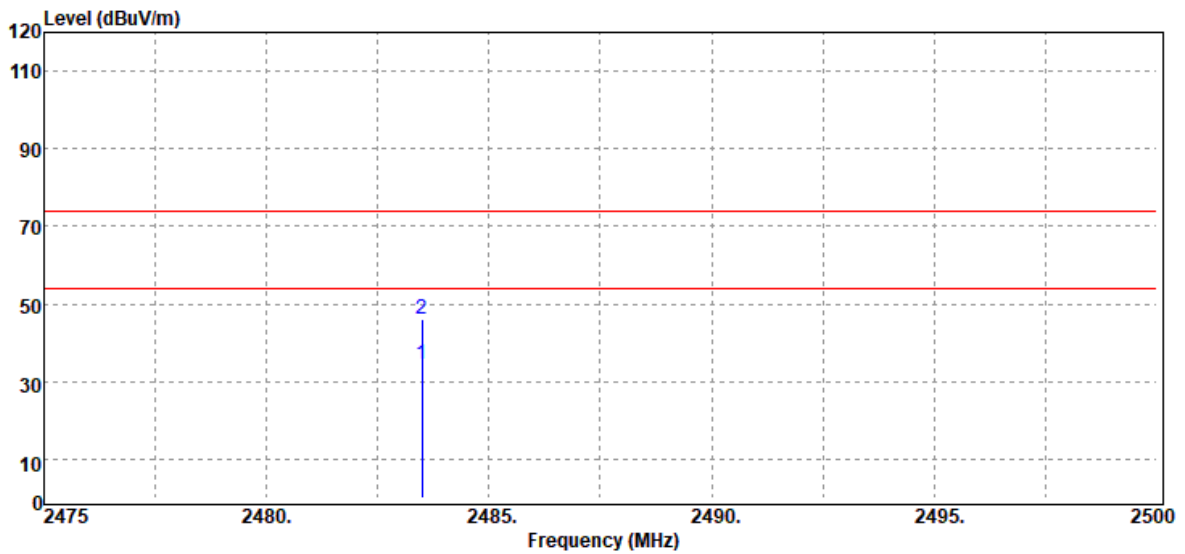
Test Mode:	GFSK_BDR-1Mbps Low CH Hopping	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	December 27, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	38.08	-3.38	34.70	54.00	-19.30
2390.00	Peak	50.75	-3.38	47.37	74.00	-26.63

Report No.: T191111W02-RP2

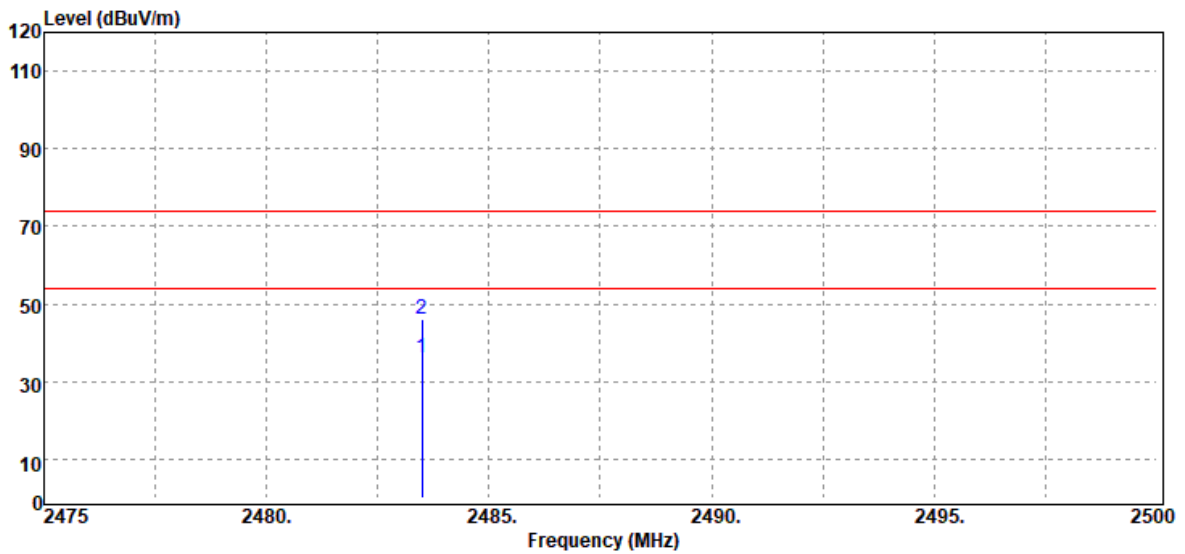
Test Mode:	GFSK_BDR-1Mbps High CH Hopping	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	December 27, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	37.33	-2.83	34.50	54.00	-19.50
2483.50	Peak	49.07	-2.83	46.24	74.00	-27.76

Report No.: T191111W02-RP2

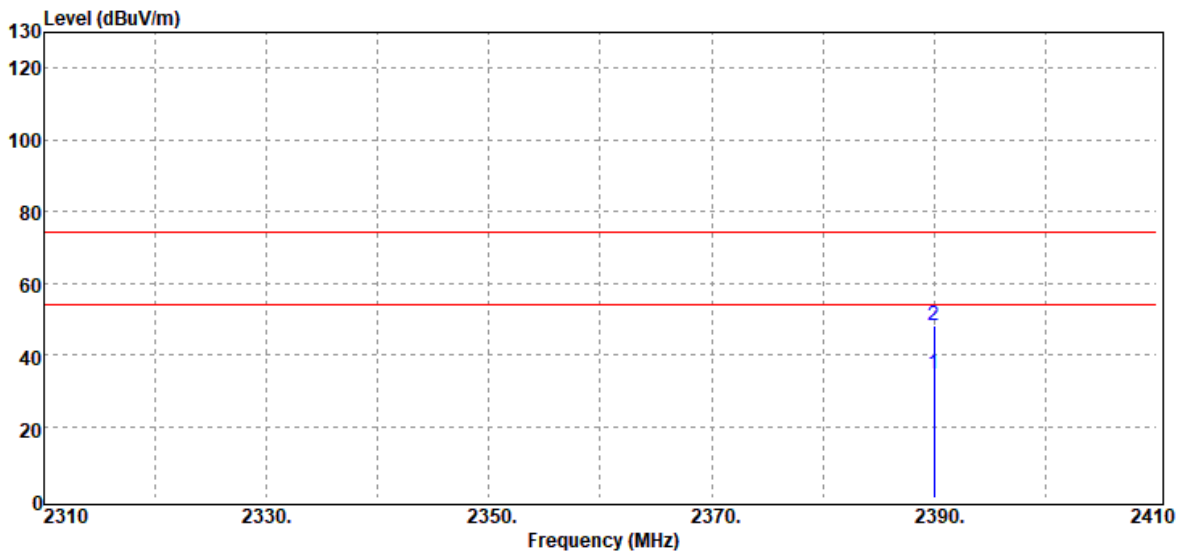
Test Mode:	GFSK_BDR-1Mbps High CH Hopping	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	December 27, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	39.07	-2.83	36.24	54.00	-17.76
2483.50	Peak	48.85	-2.83	46.02	74.00	-27.98

Report No.: T191111W02-RP2

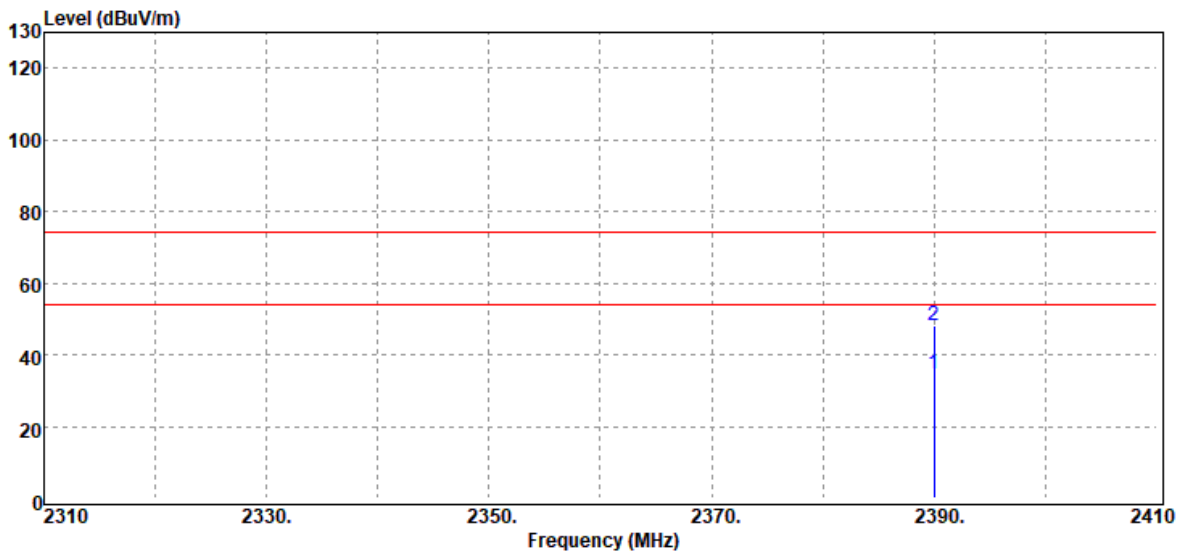
Test Mode:	8DPSK_EDR-3Mbps Low CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	December 27, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	38.11	-3.38	34.73	54.00	-19.27
2390.00	Peak	51.42	-3.38	48.04	74.00	-25.96

Report No.: T191111W02-RP2

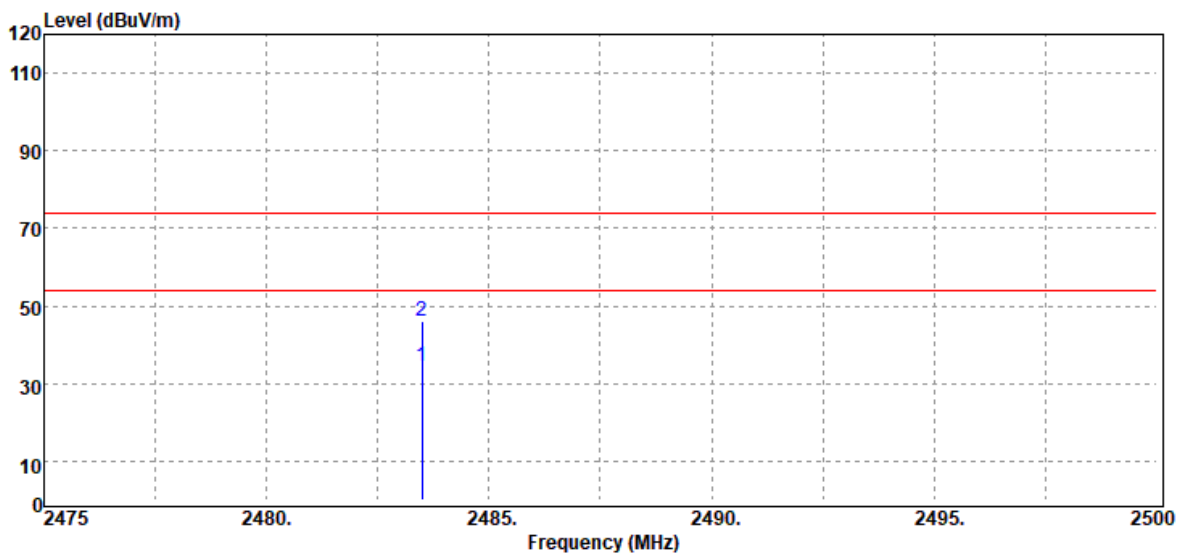
Test Mode:	8DPSK_EDR-3Mbps Low CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	December 27, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	38.07	-3.38	34.69	54.00	-19.31
2390.00	Peak	51.53	-3.38	48.15	74.00	-25.85

Report No.: T191111W02-RP2

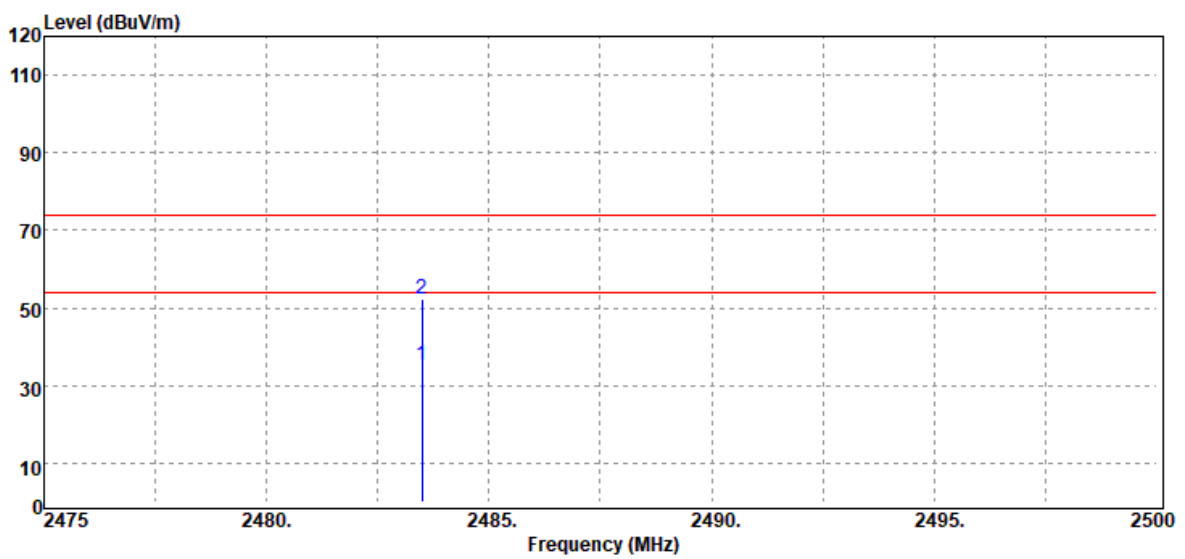
Test Mode:	8DPSK_EDR-3Mbps High CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	December 27, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	37.15	-2.83	34.32	54.00	-19.68
2483.50	Peak	49.00	-2.83	46.17	74.00	-27.83

Report No.: T191111W02-RP2

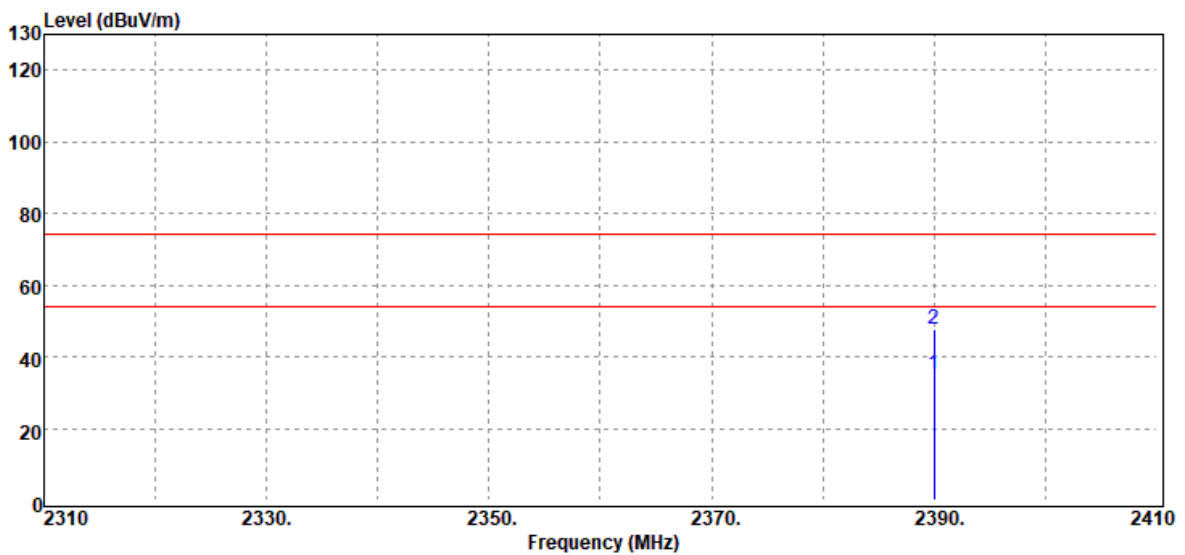
Test Mode:	8DPSK_EDR-3Mbps High CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	December 27, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	38.02	-2.83	35.19	54.00	-18.81
2483.50	Peak	54.98	-2.83	52.15	74.00	-21.85

Report No.: T191111W02-RP2

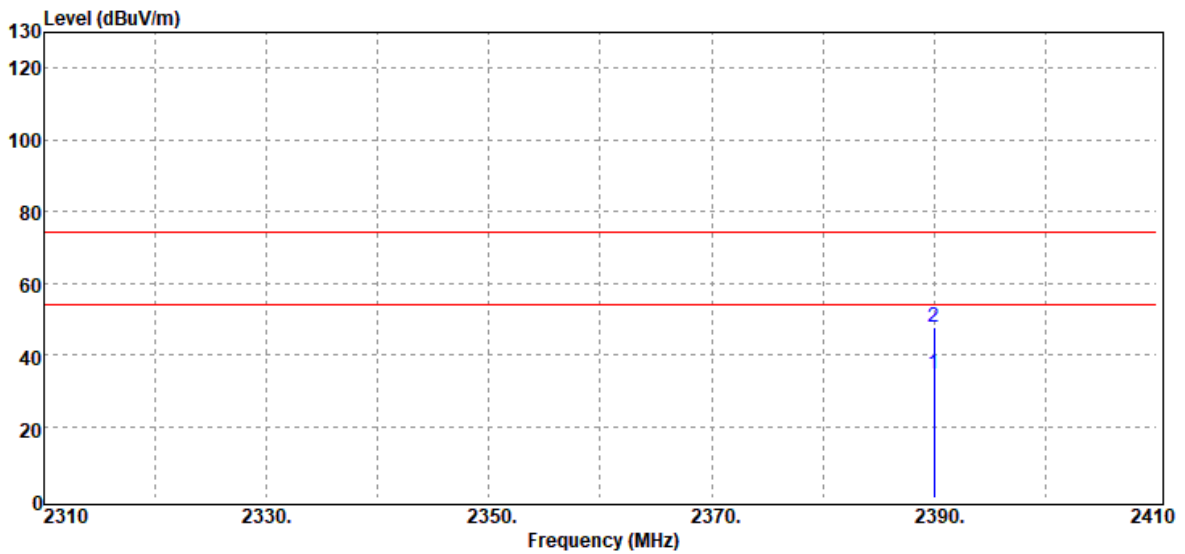
Test Mode:	8DPSK_EDR-3Mbps Low CH Hopping	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	December 27, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	38.26	-3.38	34.88	54.00	-19.12
2390.00	Peak	51.18	-3.38	47.80	74.00	-26.20

Report No.: T191111W02-RP2

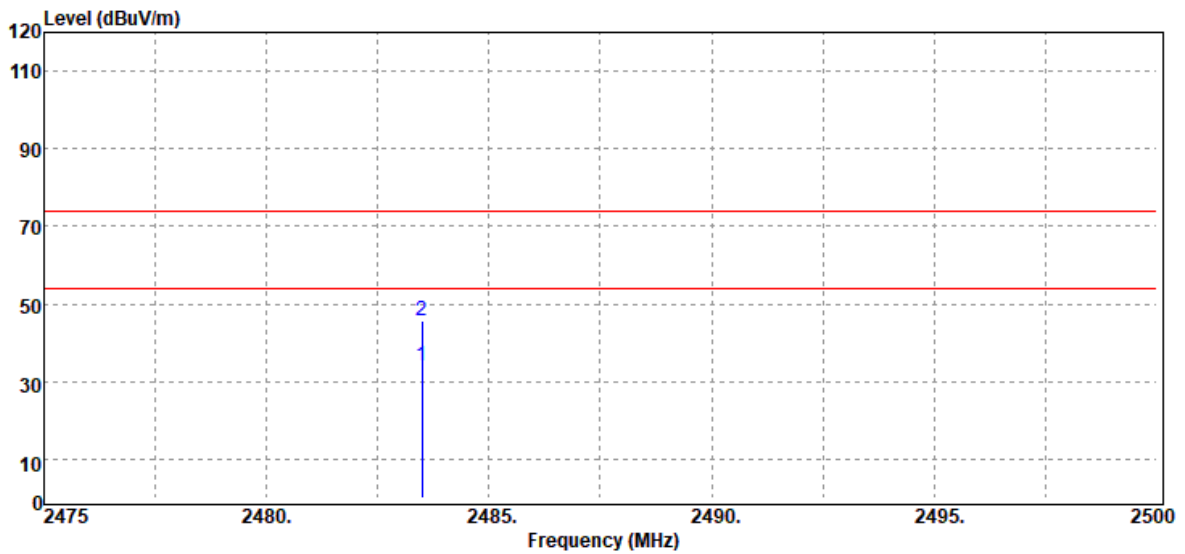
Test Mode:	8DPSK_EDR-3Mbps Low CH Hopping	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	December 27, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	38.01	-3.38	34.63	54.00	-19.37
2390.00	Peak	51.27	-3.38	47.89	74.00	-26.11

Report No.: T191111W02-RP2

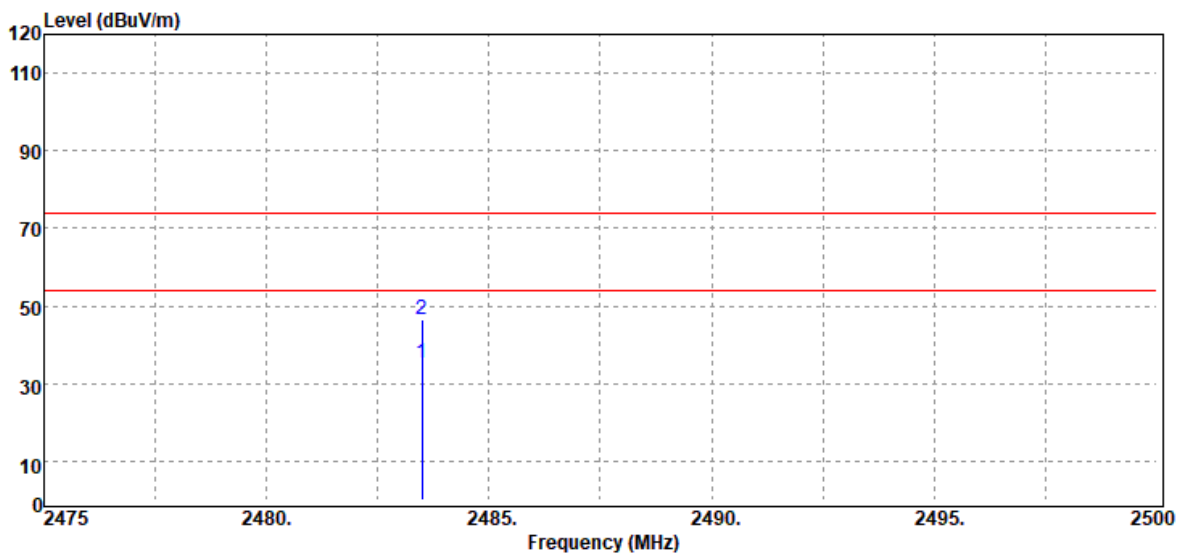
Test Mode:	8DPSK_EDR-3Mbps High CH Hopping	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	December 27, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	37.08	-2.83	34.25	54.00	-19.75
2483.50	Peak	48.64	-2.83	45.81	74.00	-28.19

Report No.: T191111W02-RP2

Test Mode:	8DPSK_EDR-3Mbps High CH Hopping	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	December 27, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak / Average		

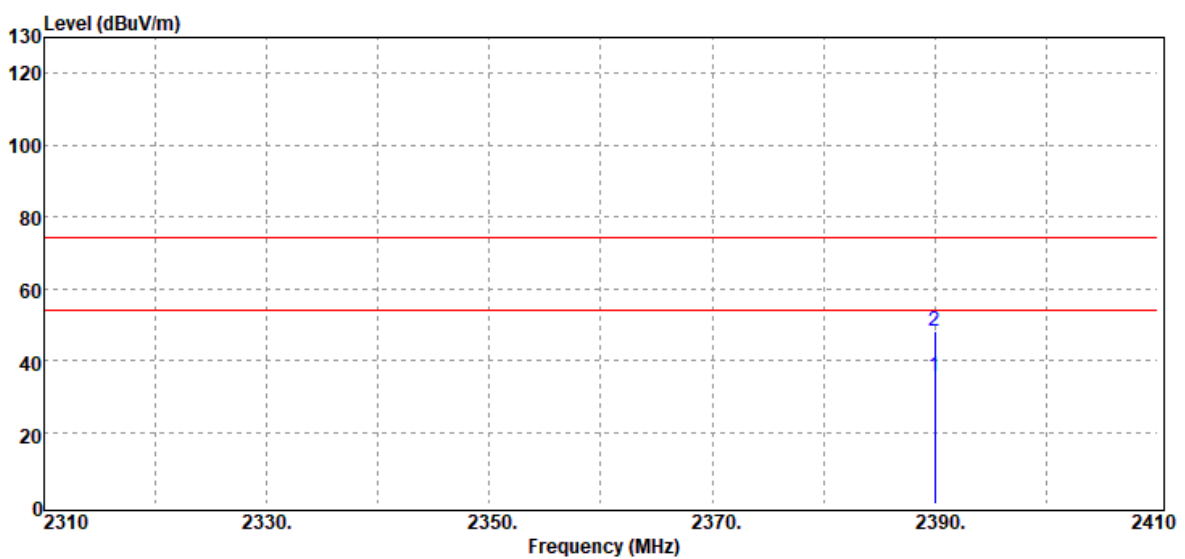


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	37.92	-2.83	35.09	54.00	-18.91
2483.50	Peak	49.19	-2.83	46.36	74.00	-27.64

Report No.: T191111W02-RP2

Chip Antenna

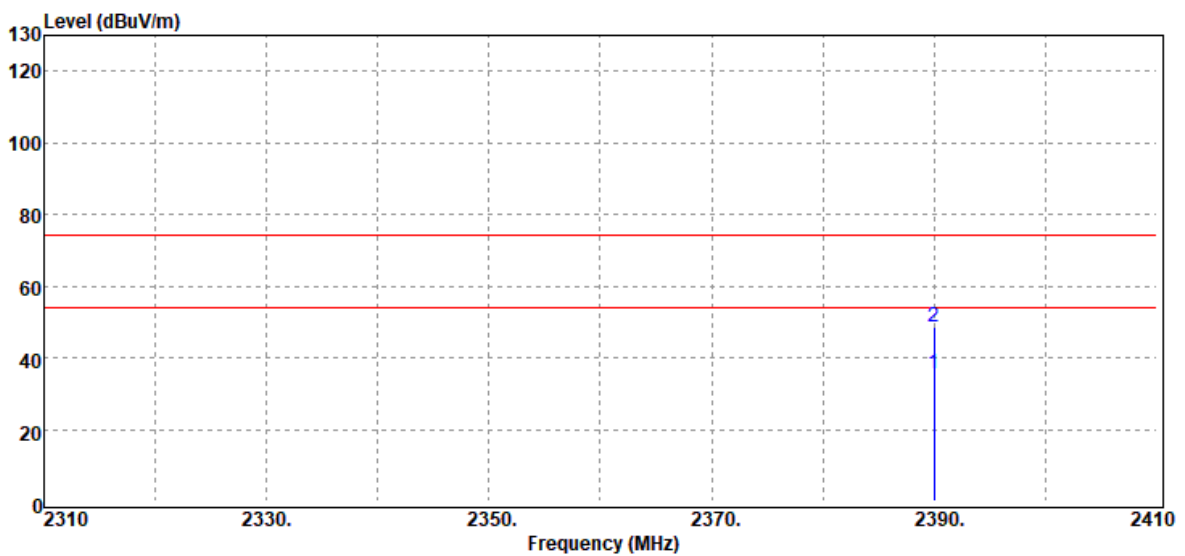
Test Mode:	GFSK_BDR-1Mbps Low CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	November 29, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	38.78	-3.38	35.40	54.00	-18.60
2390.00	Peak	51.37	-3.38	47.99	74.00	-26.01

Report No.: T191111W02-RP2

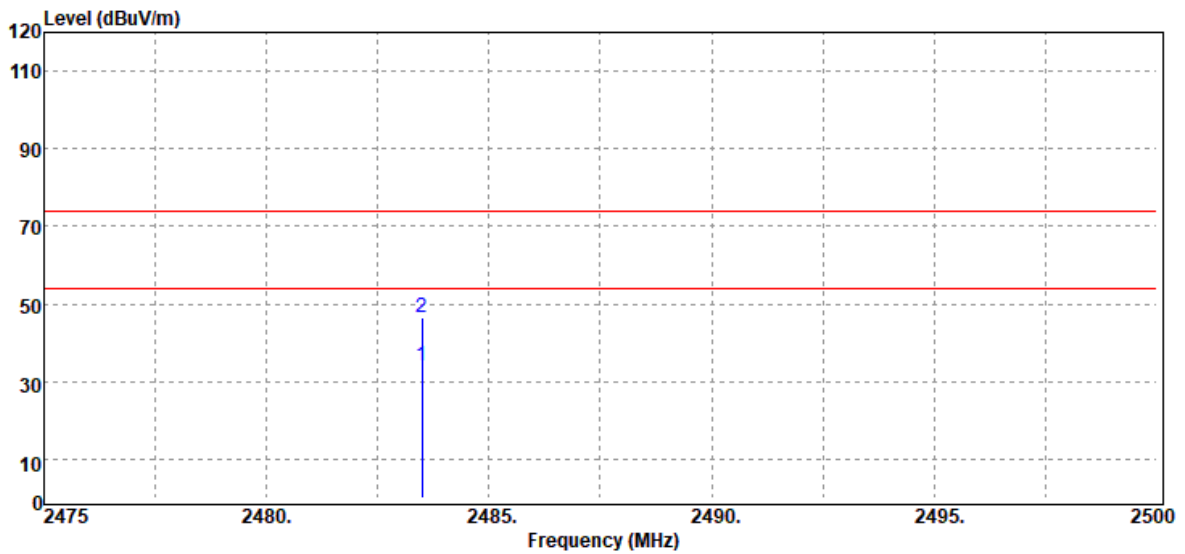
Test Mode:	GFSK_BDR-1Mbps Low CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	November 29, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	38.83	-3.38	35.45	54.00	-18.55
2390.00	Peak	52.07	-3.38	48.69	74.00	-25.31

Report No.: T191111W02-RP2

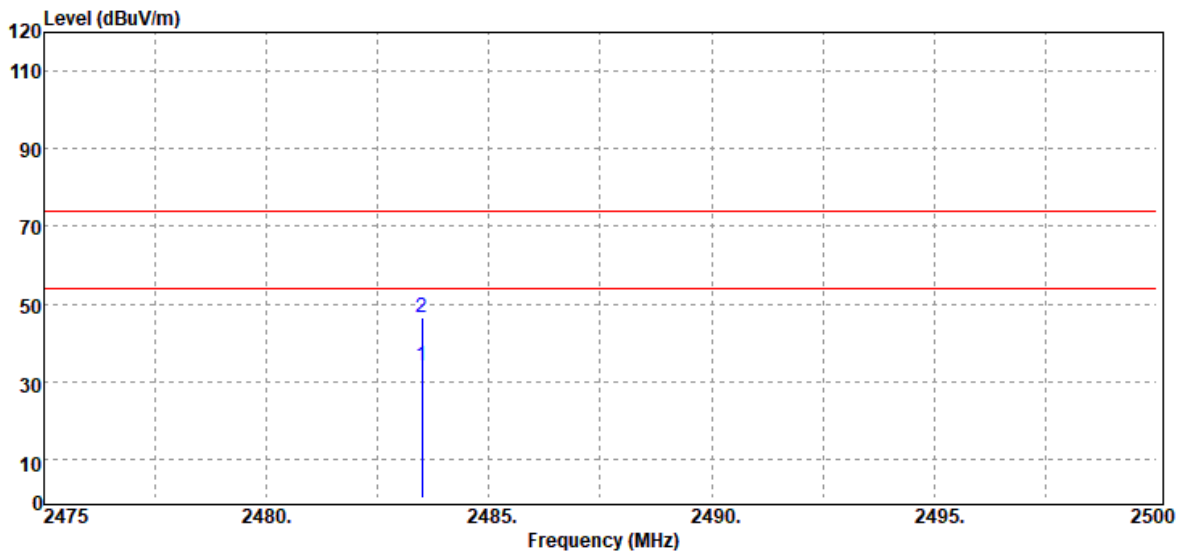
Test Mode:	GFSK_BDR-1Mbps High CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	November 29, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	36.75	-2.83	33.92	54.00	-20.08
2483.50	Peak	49.14	-2.83	46.31	74.00	-27.69

Report No.: T191111W02-RP2

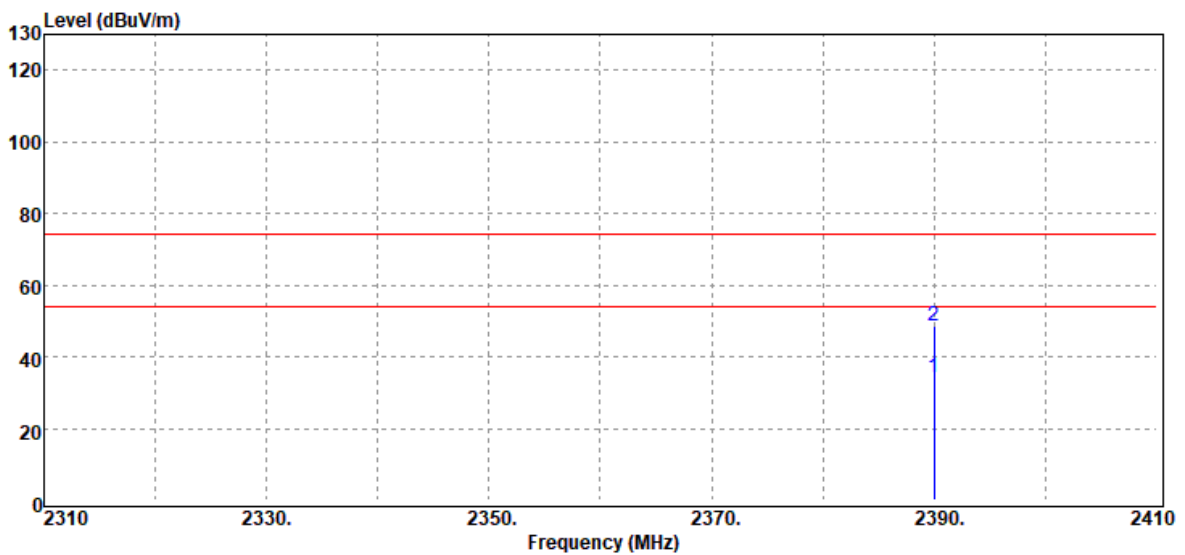
Test Mode:	GFSK_BDR-1Mbps High CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	November 29, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	36.69	-2.83	33.86	54.00	-20.14
2483.50	Peak	49.19	-2.83	46.36	74.00	-27.64

Report No.: T191111W02-RP2

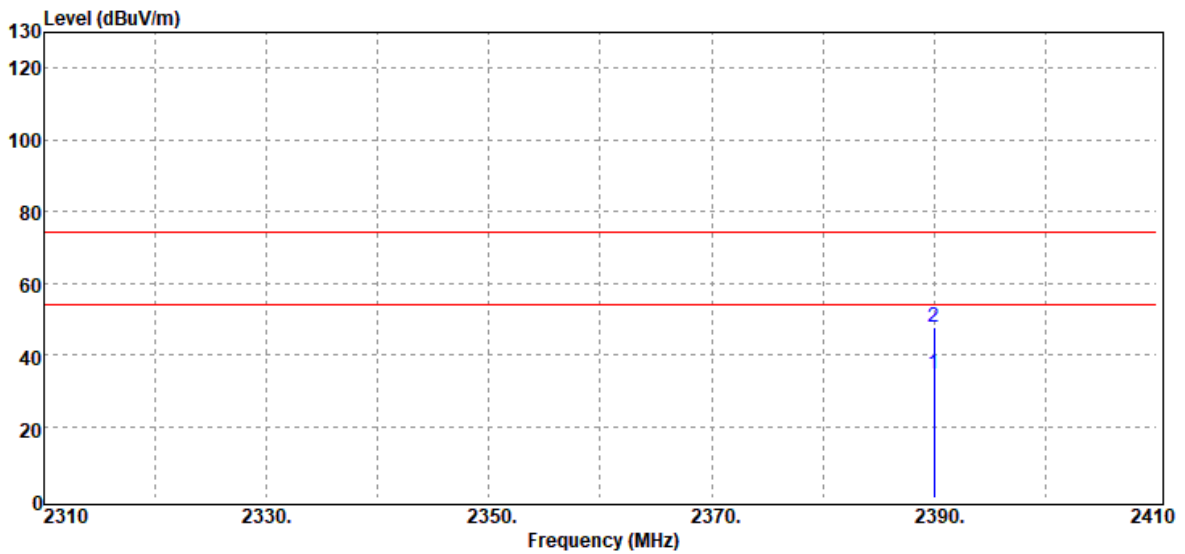
Test Mode:	GFSK_BDR-1Mbps Low CH Hopping	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	November 29, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	37.79	-3.38	34.41	54.00	-19.59
2390.00	Peak	51.79	-3.38	48.41	74.00	-25.59

Report No.: T191111W02-RP2

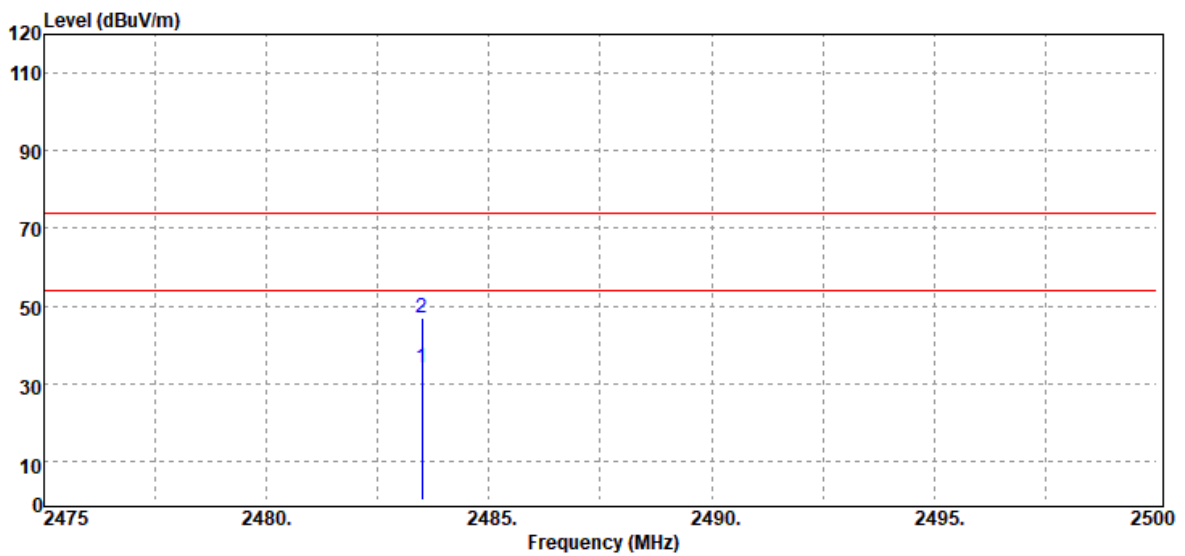
Test Mode:	GFSK_BDR-1Mbps Low CH Hopping	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	November 29, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	37.88	-3.38	34.50	54.00	-19.50
2390.00	Peak	51.09	-3.38	47.71	74.00	-26.29

Report No.: T191111W02-RP2

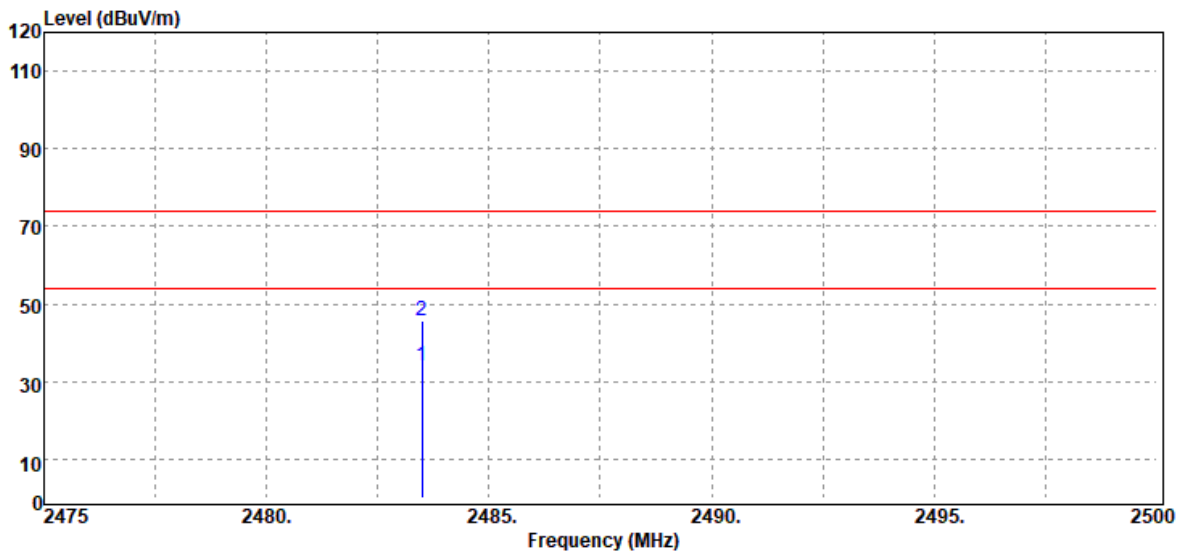
Test Mode:	GFSK_BDR-1Mbps High CH Hopping	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	November 29, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	36.72	-2.83	33.89	54.00	-20.11
2483.50	Peak	49.66	-2.83	46.83	74.00	-27.17

Report No.: T191111W02-RP2

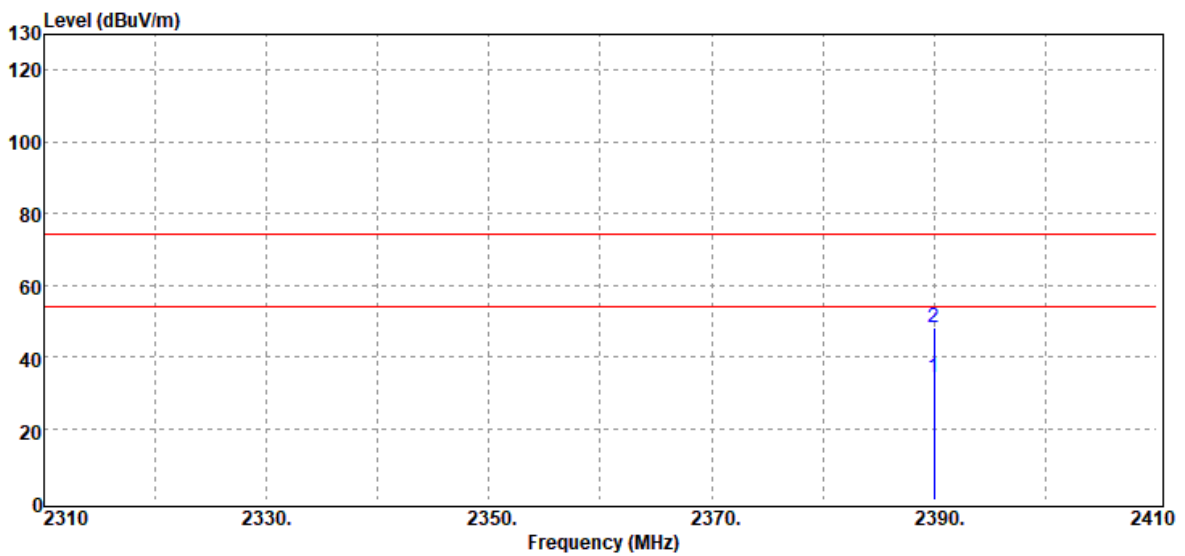
Test Mode:	GFSK_BDR-1Mbps High CH Hopping	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	November 29, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	36.73	-2.83	33.90	54.00	-20.10
2483.50	Peak	48.37	-2.83	45.54	74.00	-28.46

Report No.: T191111W02-RP2

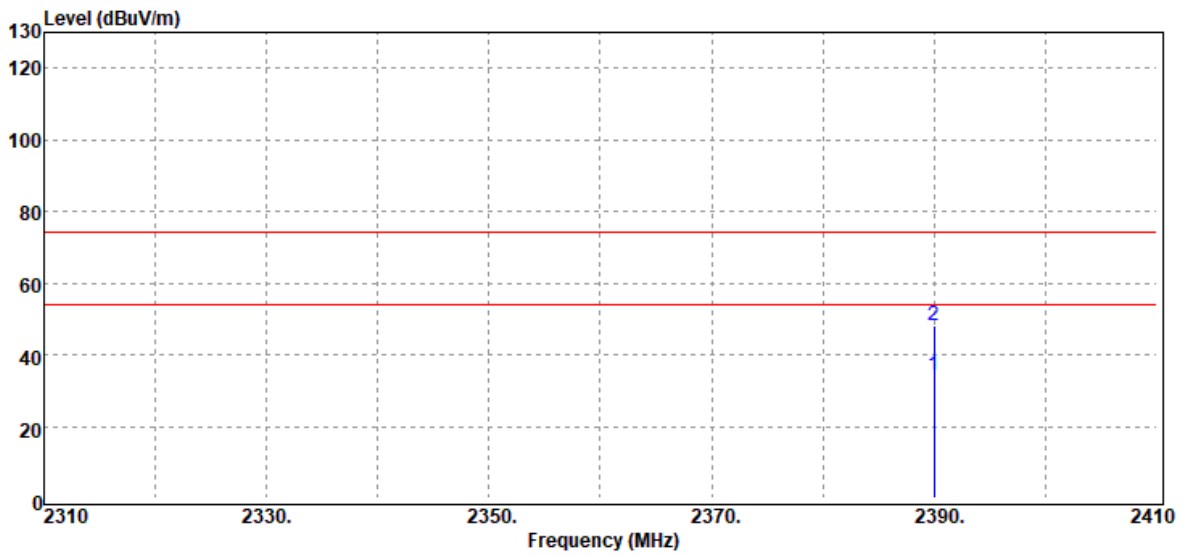
Test Mode:	8DPSK_EDR-3Mbps Low CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	November 29, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	37.67	-3.38	34.29	54.00	-19.71
2390.00	Peak	51.30	-3.38	47.92	74.00	-26.08

Report No.: T191111W02-RP2

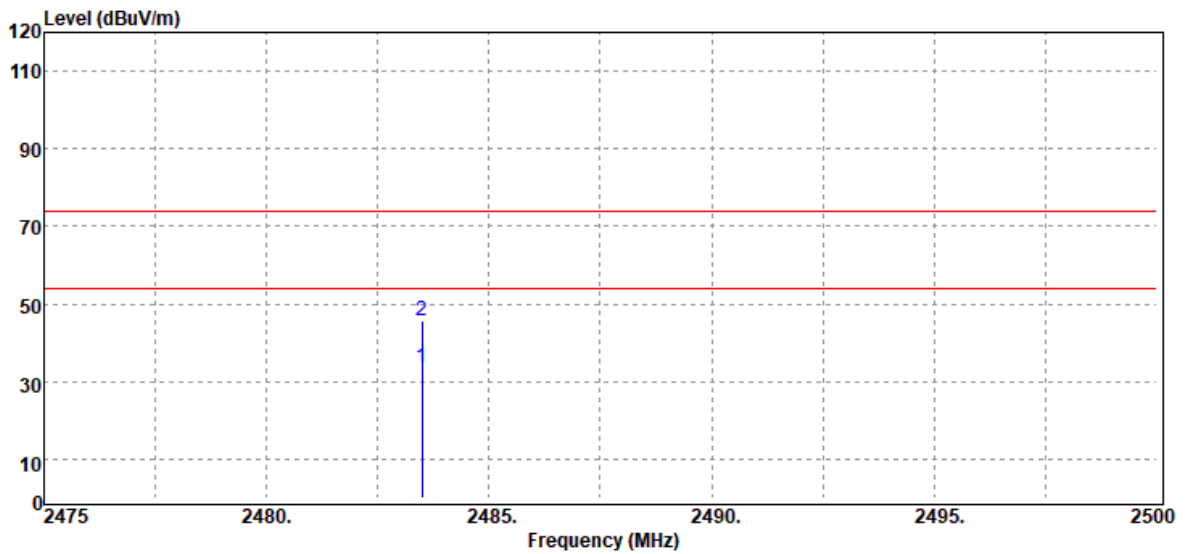
Test Mode:	8DPSK_EDR-3Mbps Low CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	November 29, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	37.73	-3.38	34.35	54.00	-19.65
2390.00	Peak	51.40	-3.38	48.02	74.00	-25.98

Report No.: T191111W02-RP2

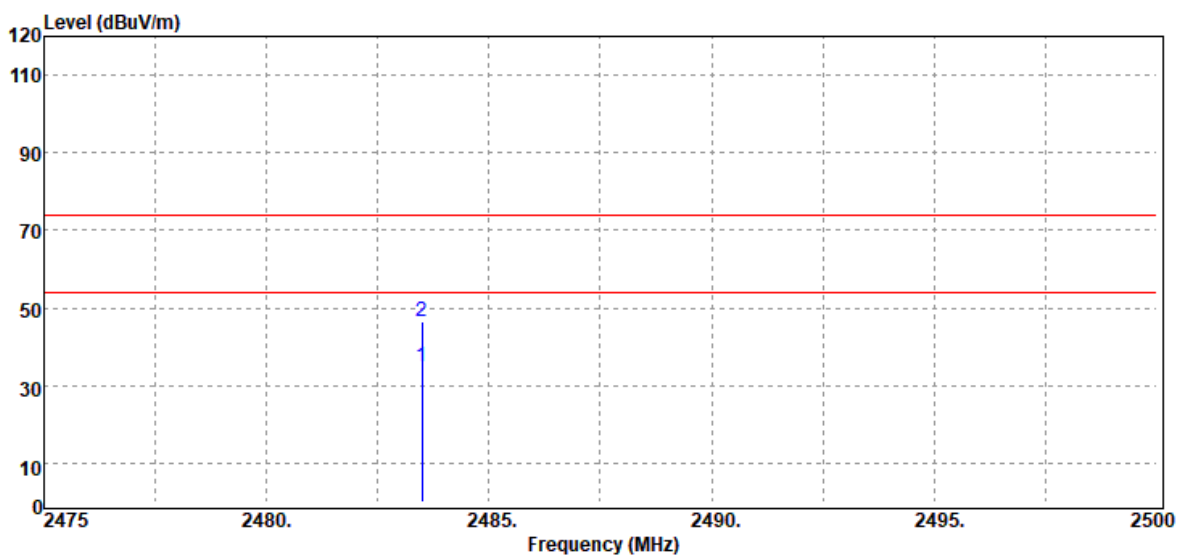
Test Mode:	8DPSK_EDR-3Mbps High CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	November 29, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	36.60	-2.83	33.77	54.00	-20.23
2483.50	Peak	48.48	-2.83	45.65	74.00	-28.35

Report No.: T191111W02-RP2

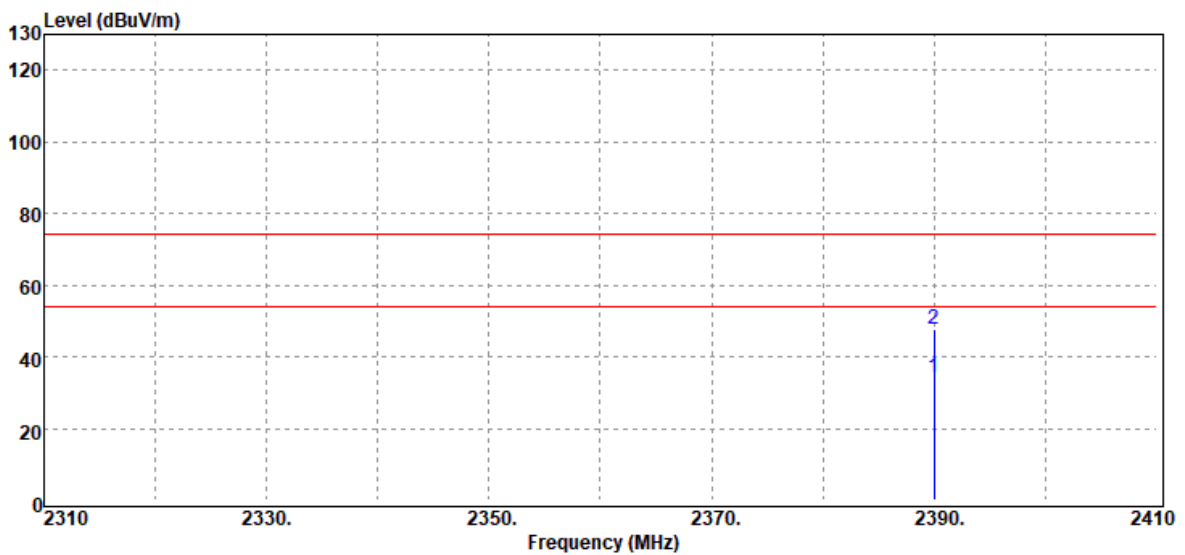
Test Mode:	8DPSK_EDR-3Mbps High CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	November 29, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	37.68	-2.83	34.85	54.00	-19.15
2483.50	Peak	49.28	-2.83	46.45	74.00	-27.55

Report No.: T191111W02-RP2

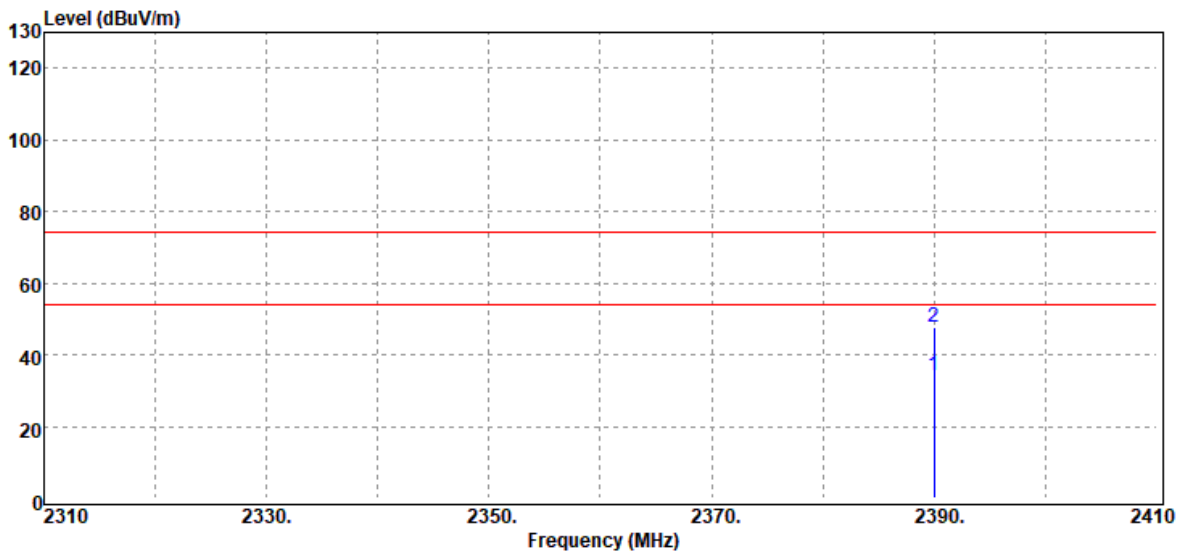
Test Mode:	8DPSK_EDR-3Mbps Low CH Hopping	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	November 29, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	37.75	-3.38	34.37	54.00	-19.63
2390.00	Peak	50.85	-3.38	47.47	74.00	-26.53

Report No.: T191111W02-RP2

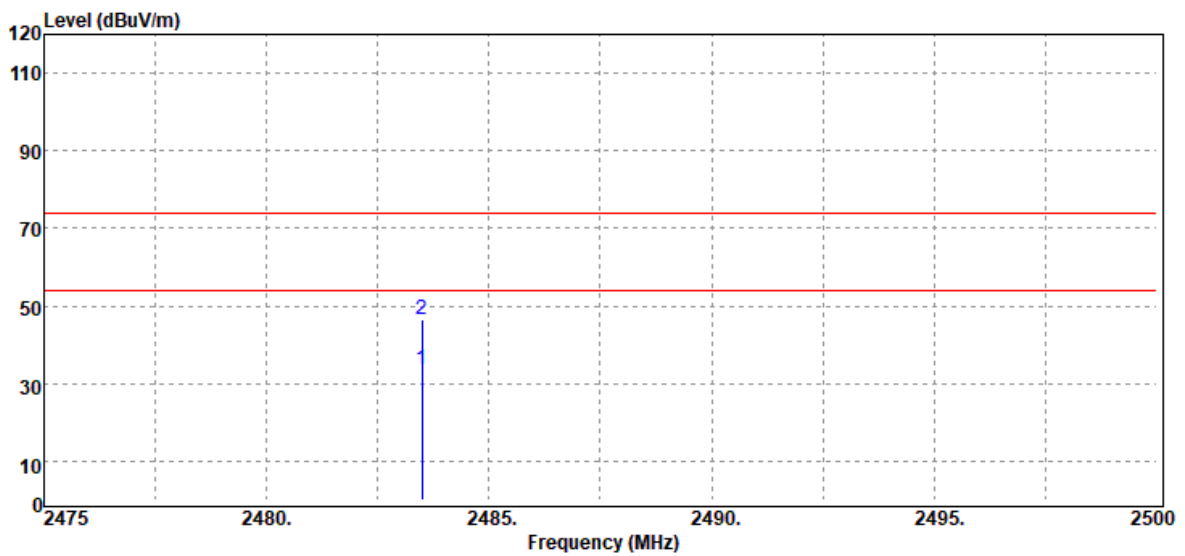
Test Mode:	8DPSK_EDR-3Mbps Low CH Hopping	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	November 29, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
2390.00	Average	37.72	-3.38	34.34	54.00	-19.66
2390.00	Peak	51.25	-3.38	47.87	74.00	-26.13

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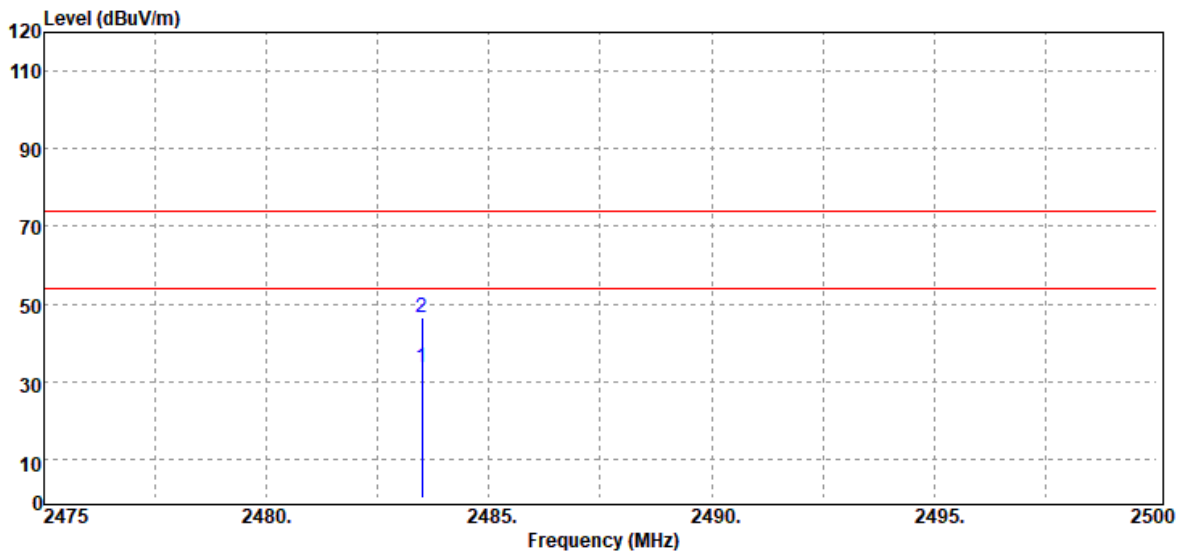
Test Mode:	8DPSK_EDR-3Mbps High CH Hopping	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	November 29, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	36.59	-2.83	33.76	54.00	-20.24
2483.50	Peak	49.25	-2.83	46.42	74.00	-27.58

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Test Mode:	8DPSK_EDR-3Mbps High CH Hopping	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	November 29, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak / Average		

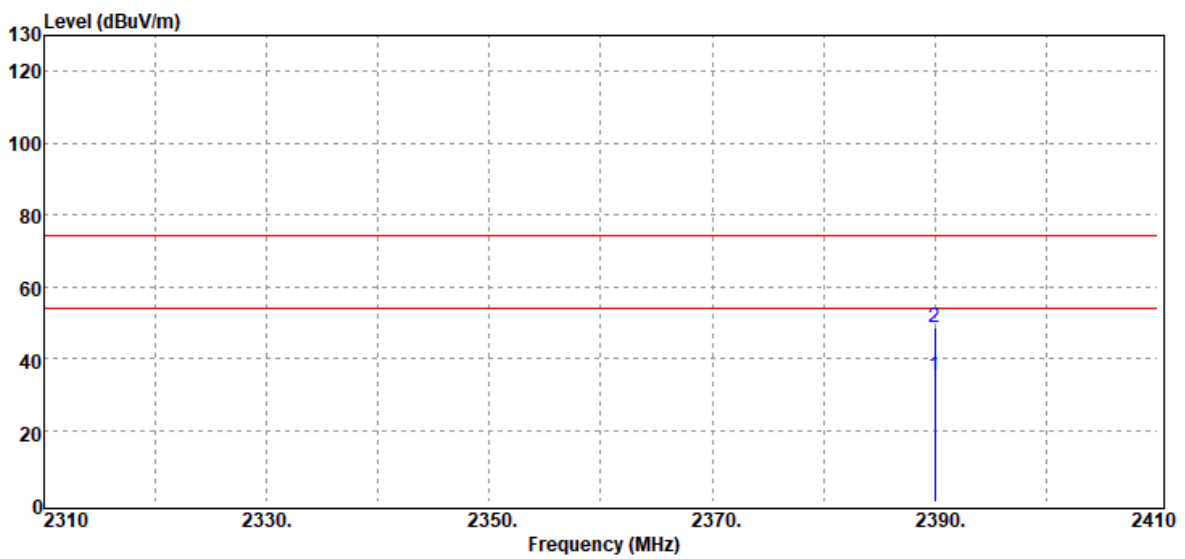


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	36.59	-2.83	33.76	54.00	-20.24
2483.50	Peak	49.27	-2.83	46.44	74.00	-27.56

Report No.: T191111W02-RP2

Dipole Antenna

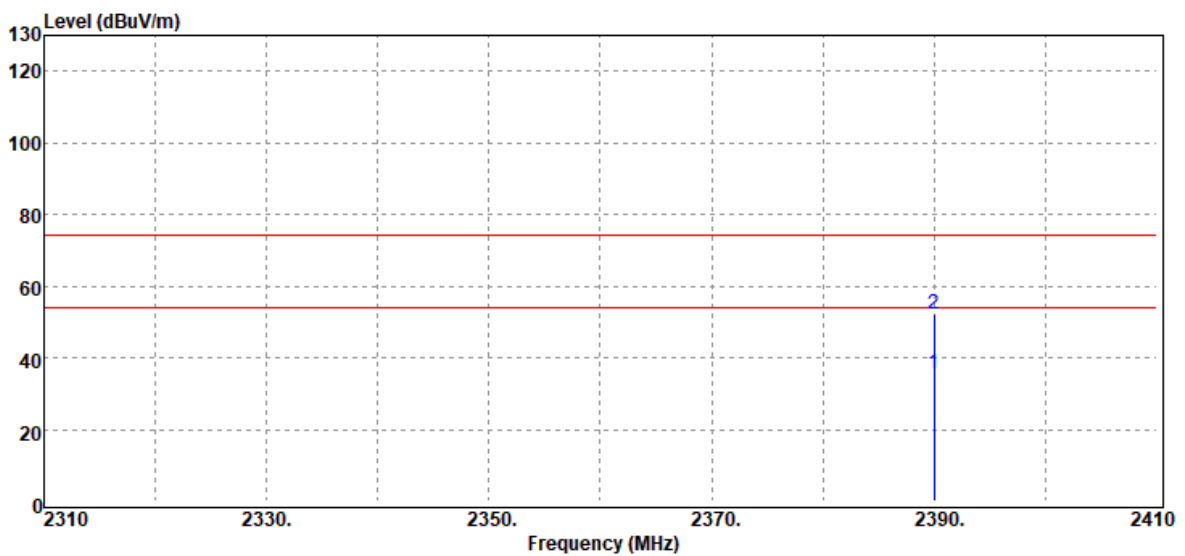
Test Mode:	GFSK_BDR-1Mbps Low CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	December 27, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	38.05	-2.82	35.23	54.00	-18.77
2390.00	Peak	51.56	-2.82	48.74	74.00	-25.26

Report No.: T191111W02-RP2

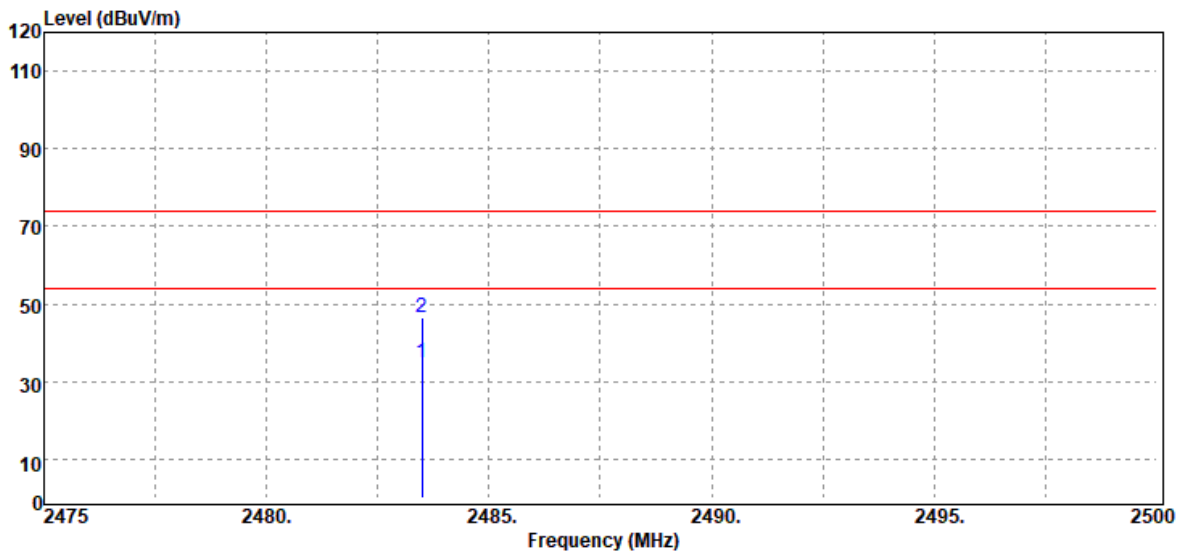
Test Mode:	GFSK_BDR-1Mbps Low CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	December 27, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	38.54	-2.82	35.72	54.00	-18.28
2390.00	Peak	54.93	-2.82	52.11	74.00	-21.89

Report No.: T191111W02-RP2

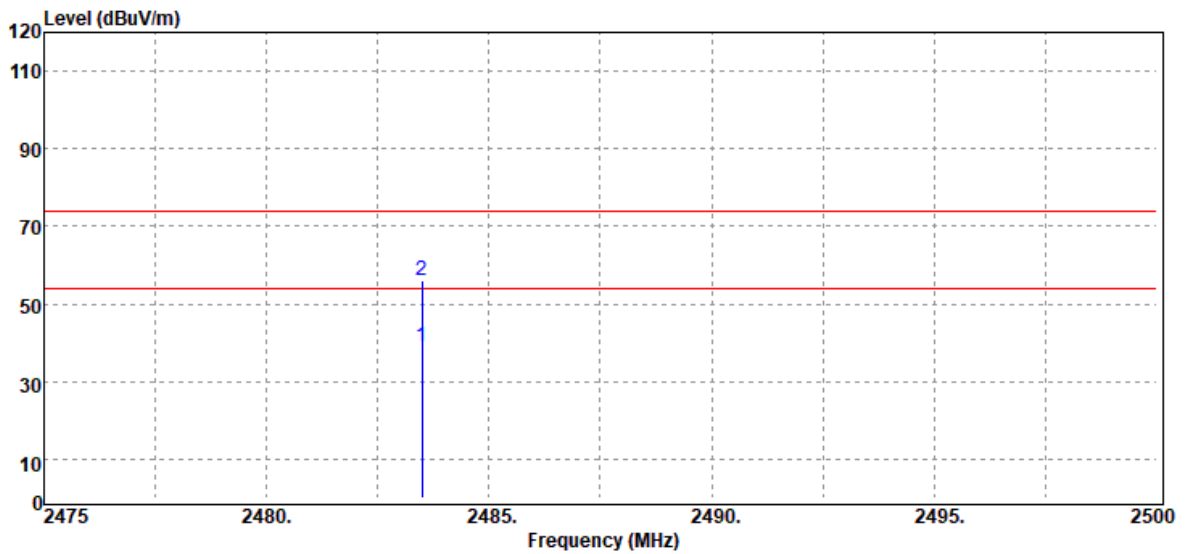
Test Mode:	GFSK_BDR-1Mbps High CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	December 27, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	37.16	-2.30	34.86	54.00	-19.14
2483.50	Peak	48.79	-2.30	46.49	74.00	-27.51

Report No.: T191111W02-RP2

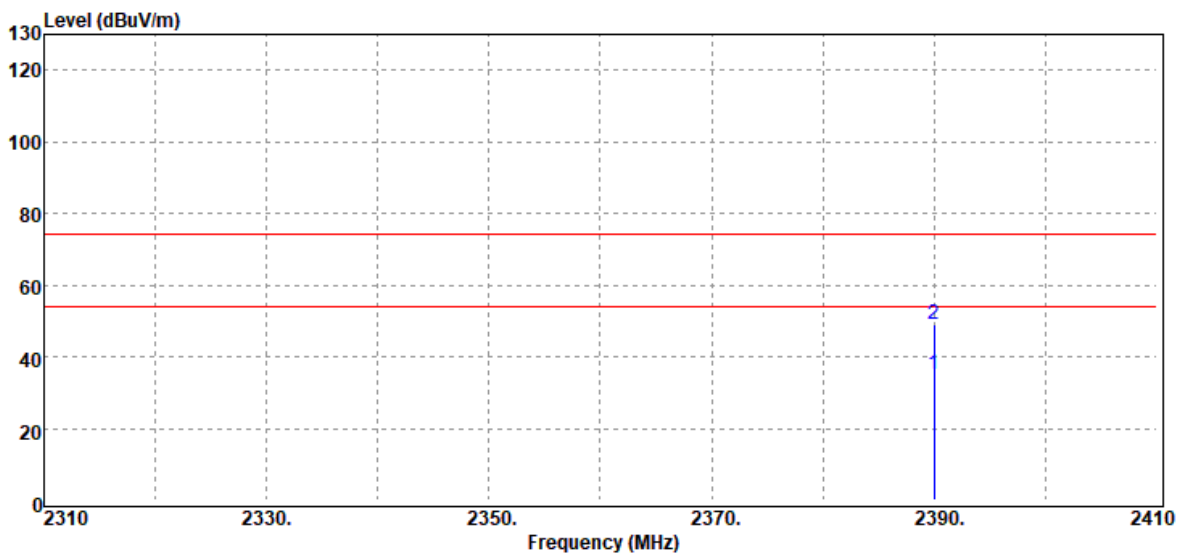
Test Mode:	GFSK_BDR-1Mbps High CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	December 27, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	41.30	-2.30	39.00	54.00	-15.00
2483.50	Peak	58.56	-2.30	56.26	74.00	-17.74

Report No.: T191111W02-RP2

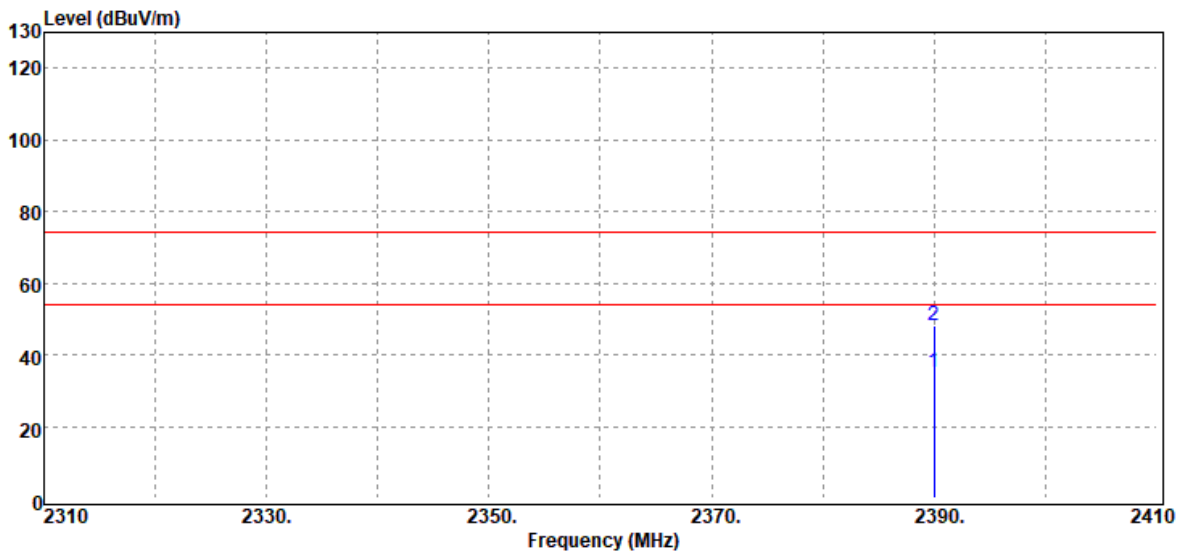
Test Mode:	GFSK_BDR-1Mbps Low CH Hopping	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	December 27, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	37.90	-2.82	35.08	54.00	-18.92
2390.00	Peak	51.85	-2.82	49.03	74.00	-24.97

Report No.: T191111W02-RP2

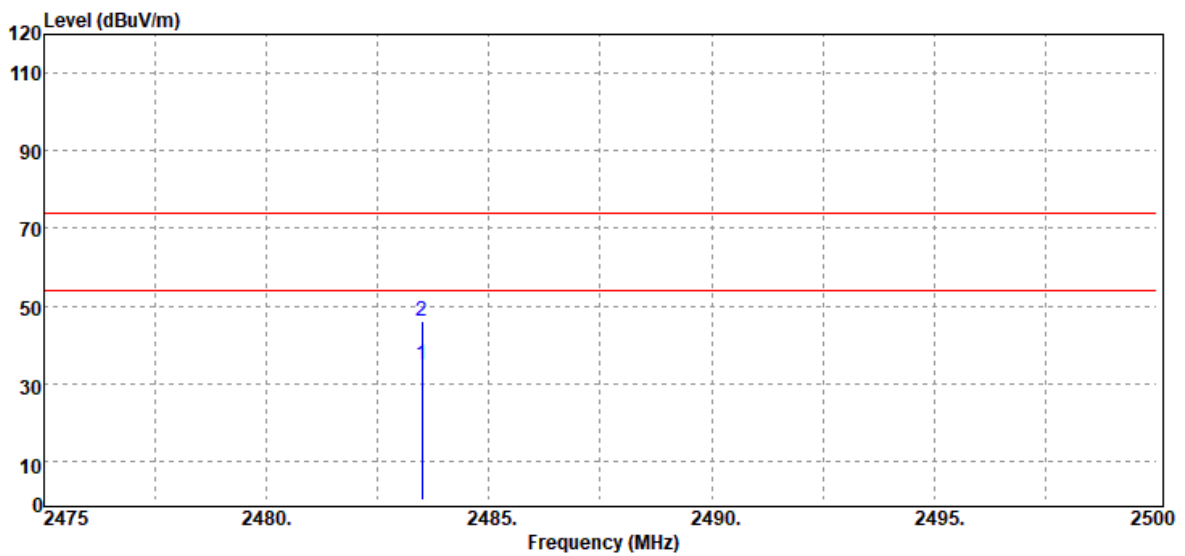
Test Mode:	GFSK_BDR-1Mbps Low CH Hopping	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	December 27, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	38.00	-2.82	35.18	54.00	-18.82
2390.00	Peak	51.14	-2.82	48.32	74.00	-25.68

Report No.: T191111W02-RP2

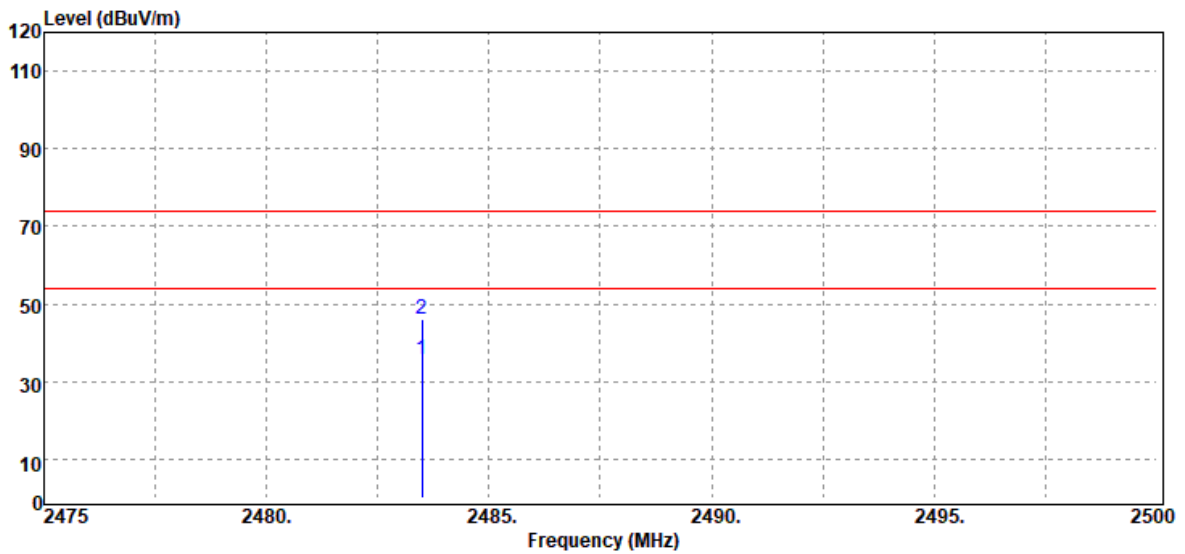
Test Mode:	GFSK_BDR-1Mbps High CH Hopping	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	December 27, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	37.20	-2.30	34.90	54.00	-19.10
2483.50	Peak	48.21	-2.30	45.91	74.00	-28.09

Report No.: T191111W02-RP2

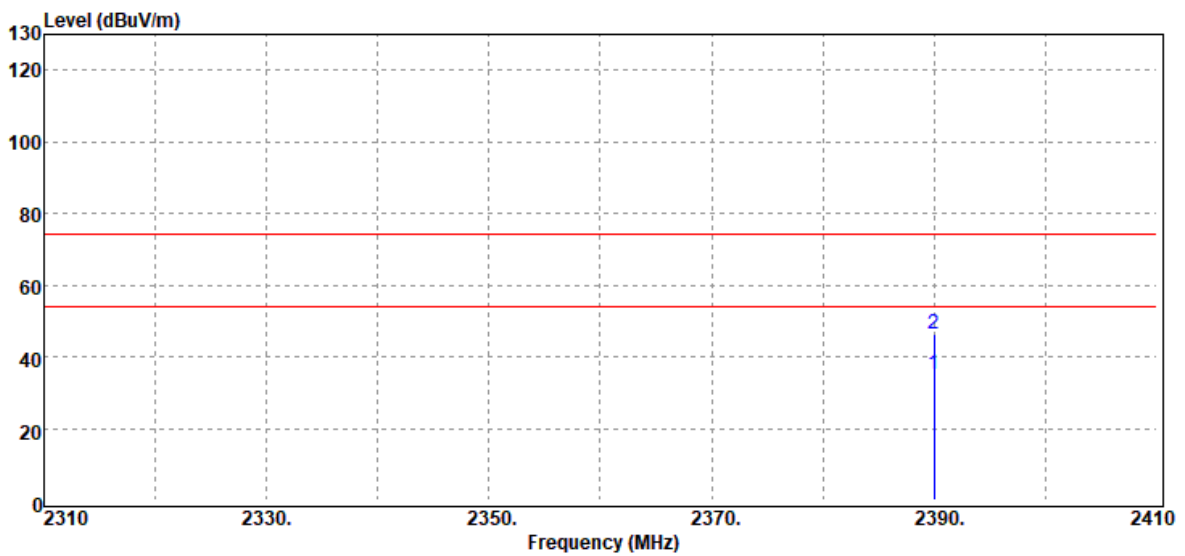
Test Mode:	GFSK_BDR-1Mbps High CH Hopping	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	December 27, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	37.87	-2.30	35.57	54.00	-18.43
2483.50	Peak	48.55	-2.30	46.25	74.00	-27.75

Report No.: T191111W02-RP2

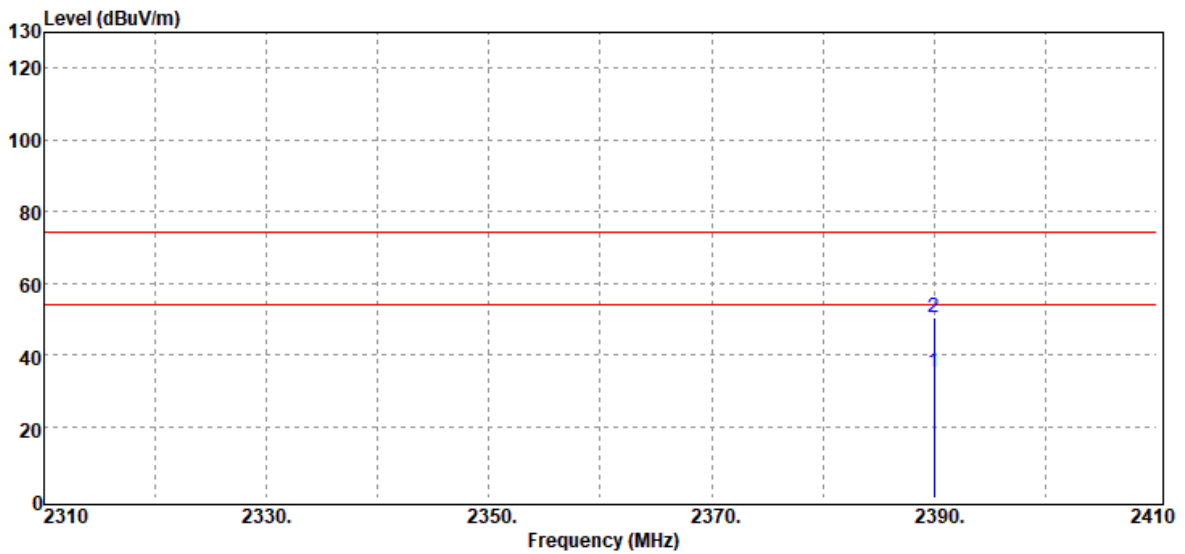
Test Mode:	8DPSK_EDR-3Mbps Low CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	December 27, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	37.87	-2.82	35.05	54.00	-18.95
2390.00	Peak	49.25	-2.82	46.43	74.00	-27.57

Report No.: T191111W02-RP2

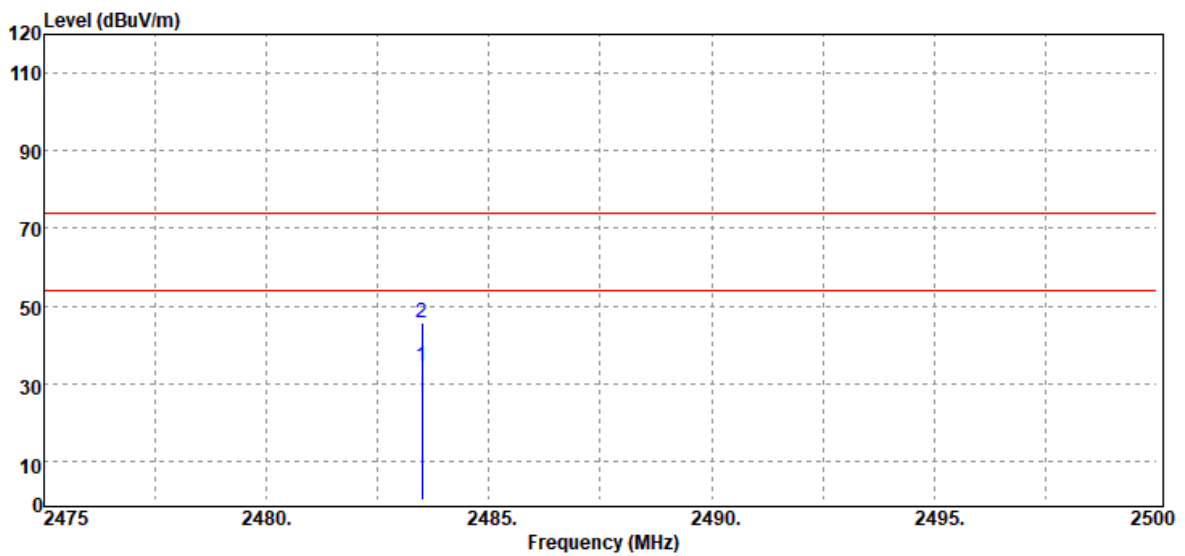
Test Mode:	8DPSK_EDR-3Mbps Low CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	December 27, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	38.11	-2.82	35.29	54.00	-18.71
2390.00	Peak	53.33	-2.82	50.51	74.00	-23.49

Report No.: T191111W02-RP2

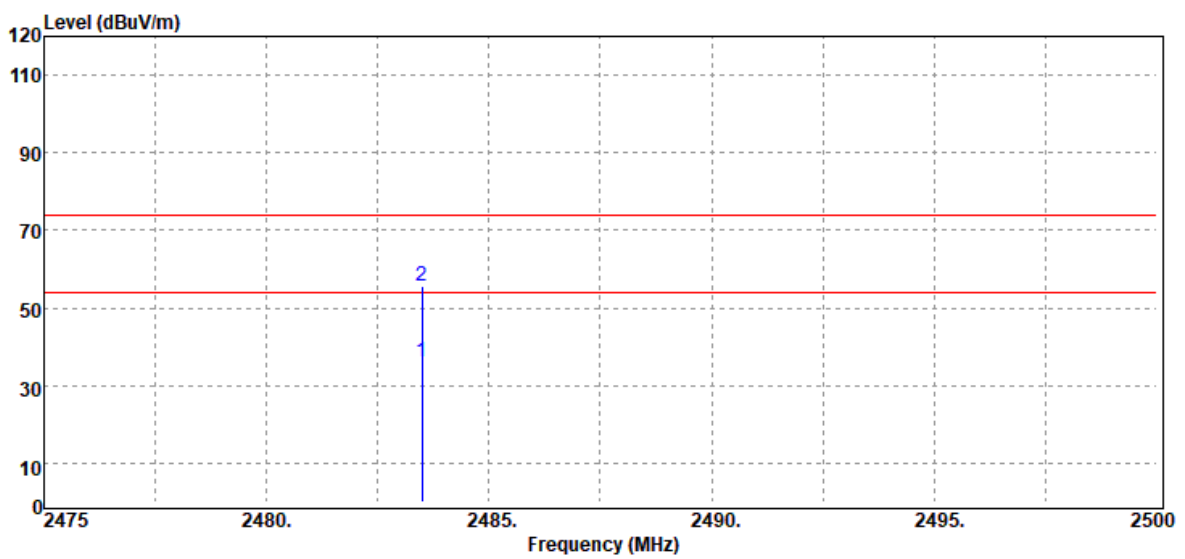
Test Mode:	8DPSK_EDR-3Mbps High CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	December 27, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	36.56	-2.30	34.26	54.00	-19.74
2483.50	Peak	48.14	-2.30	45.84	74.00	-28.16

Report No.: T191111W02-RP2

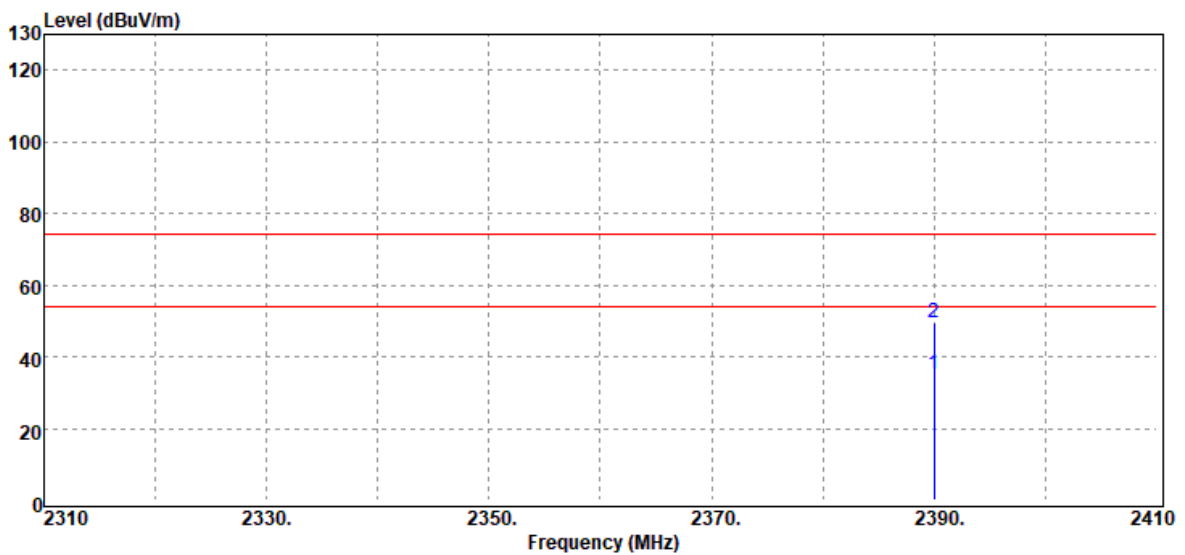
Test Mode:	8DPSK_EDR-3Mbps High CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	December 27, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	38.60	-2.30	36.30	54.00	-17.70
2483.50	Peak	57.96	-2.30	55.66	74.00	-18.34

Report No.: T191111W02-RP2

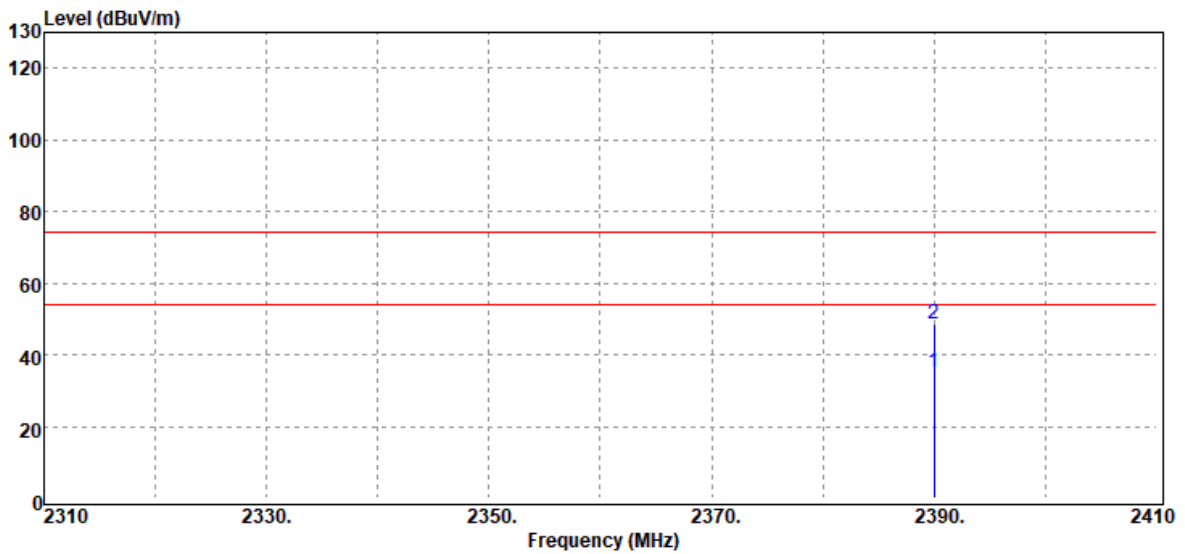
Test Mode:	8DPSK_EDR-3Mbps Low CH Hopping	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	December 27, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2390.00	Average	37.98	-2.82	35.16	54.00	-18.84
2390.00	Peak	52.27	-2.82	49.45	74.00	-24.55

Report No.: T191111W02-RP2

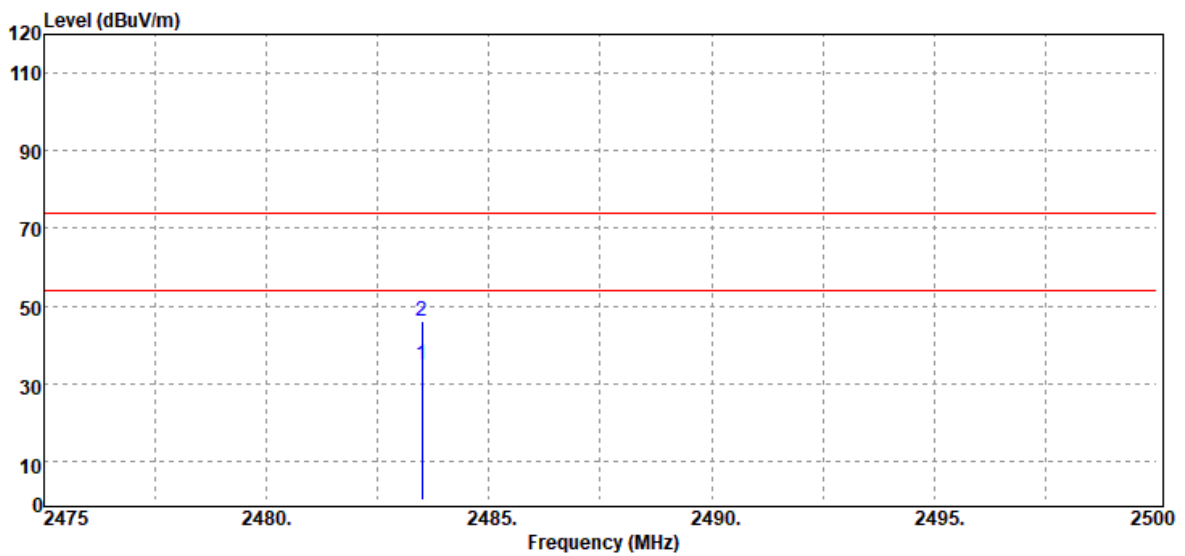
Test Mode:	8DPSK_EDR-3Mbps Low CH Hopping	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	December 27, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2390.00	Average	38.02	-2.82	35.20	54.00	-18.80
2390.00	Peak	51.60	-2.82	48.78	74.00	-25.22

Report No.: T191111W02-RP2

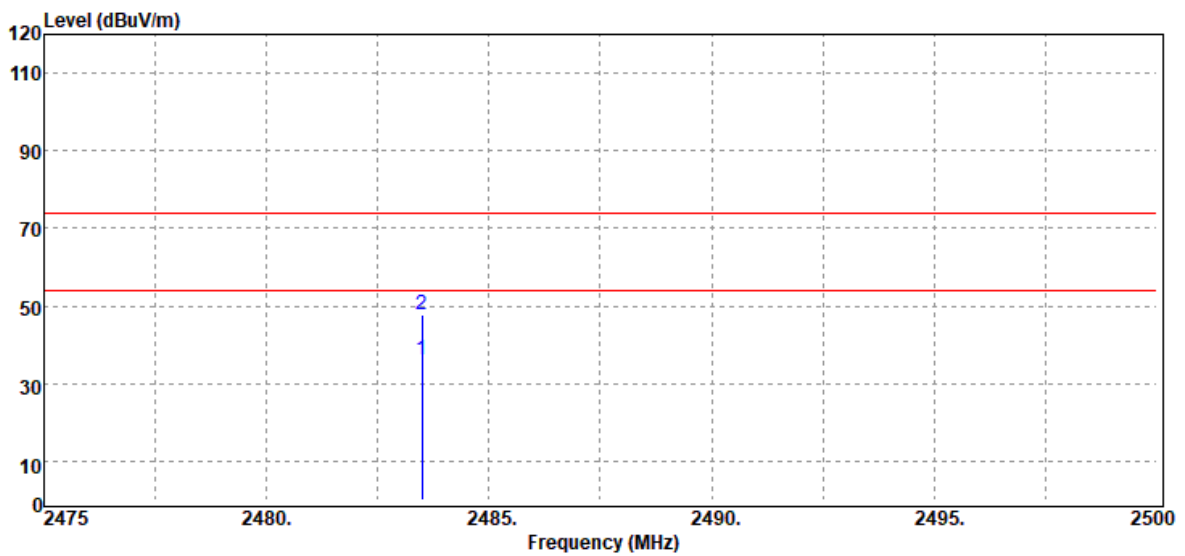
Test Mode:	8DPSK_EDR-3Mbps High CH Hopping	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	December 27, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak / Average		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	37.20	-2.30	34.90	54.00	-19.10
2483.50	Peak	48.23	-2.30	45.93	74.00	-28.07

Report No.: T191111W02-RP2

Test Mode:	8DPSK_EDR-3Mbps High CH Hopping	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Band Edge	Test Date	December 27, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak / Average		



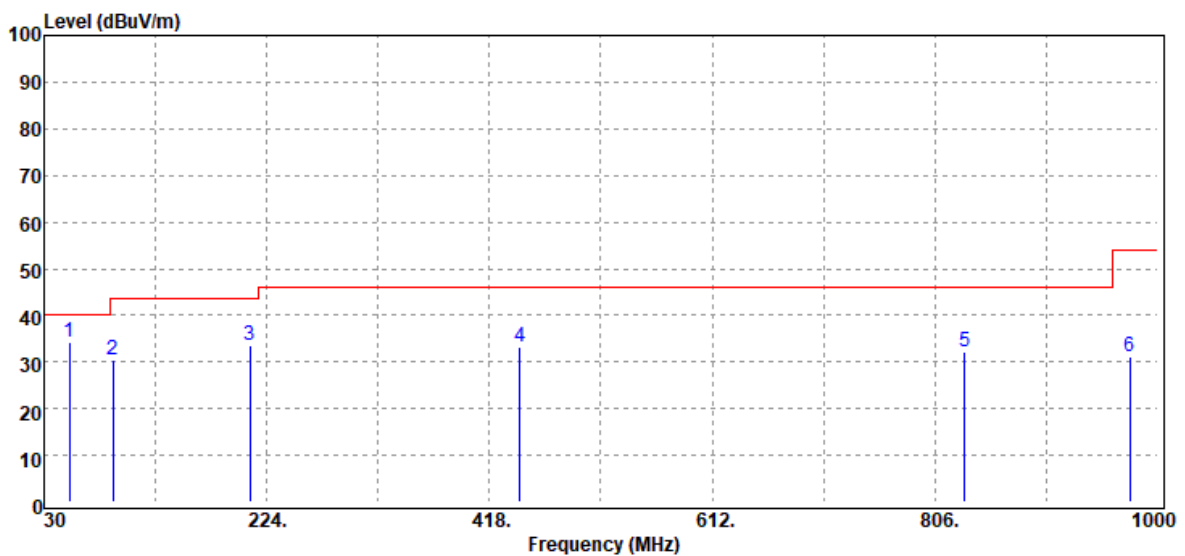
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	Average	38.35	-2.30	36.05	54.00	-17.95
2483.50	Peak	50.12	-2.30	47.82	74.00	-26.18

Report No.: T191111W02-RP2

Below 1G Test Data

PCB Antenna

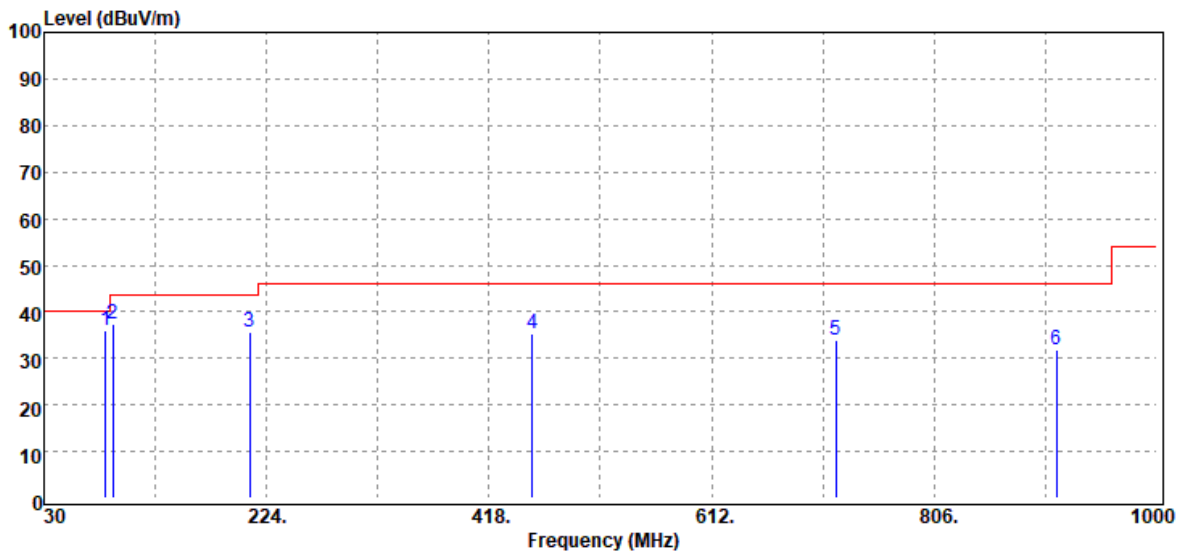
Test Mode:	BT Mode	Temp/Hum	22.5(°C)/ 59%RH
Test Item	30MHz-1GHz	Test Date	December 31, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
52.31	Peak	50.06	-15.77	34.29	40.00	-5.71
90.14	Peak	45.69	-15.23	30.46	43.50	-13.04
209.45	Peak	45.30	-11.57	33.73	43.50	-9.77
444.19	Peak	37.43	-4.11	33.32	46.00	-12.68
832.19	Peak	28.74	3.45	32.19	46.00	-13.81
975.75	Peak	25.48	5.54	31.02	54.00	-22.98

Report No.: T191111W02-RP2

Test Mode:	BT Mode	Temp/Hum	22.5(°C)/ 59%RH
Test Item	30MHz-1GHz	Test Date	December 31, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

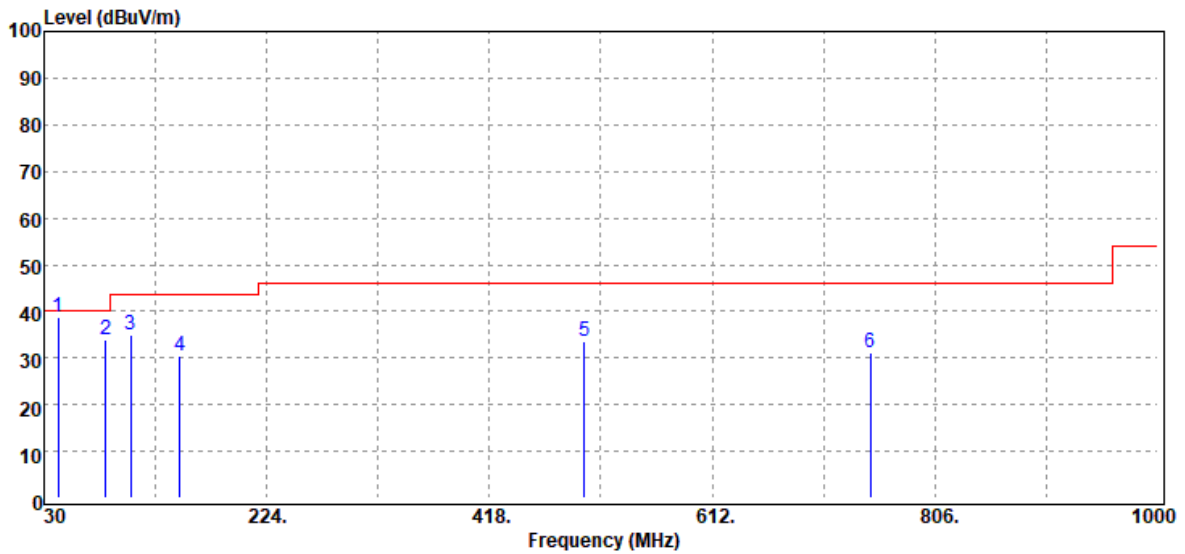


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
83.35	Peak	51.51	-15.52	35.99	40.00	-4.01
90.14	Peak	52.51	-15.23	37.28	43.50	-6.22
209.45	Peak	47.28	-11.57	35.71	43.50	-7.79
455.83	Peak	38.99	-3.74	35.25	46.00	-10.75
720.64	Peak	33.42	0.58	34.00	46.00	-12.00
912.70	Peak	27.98	3.89	31.87	46.00	-14.13

Report No.: T191111W02-RP2

Chip Antenna

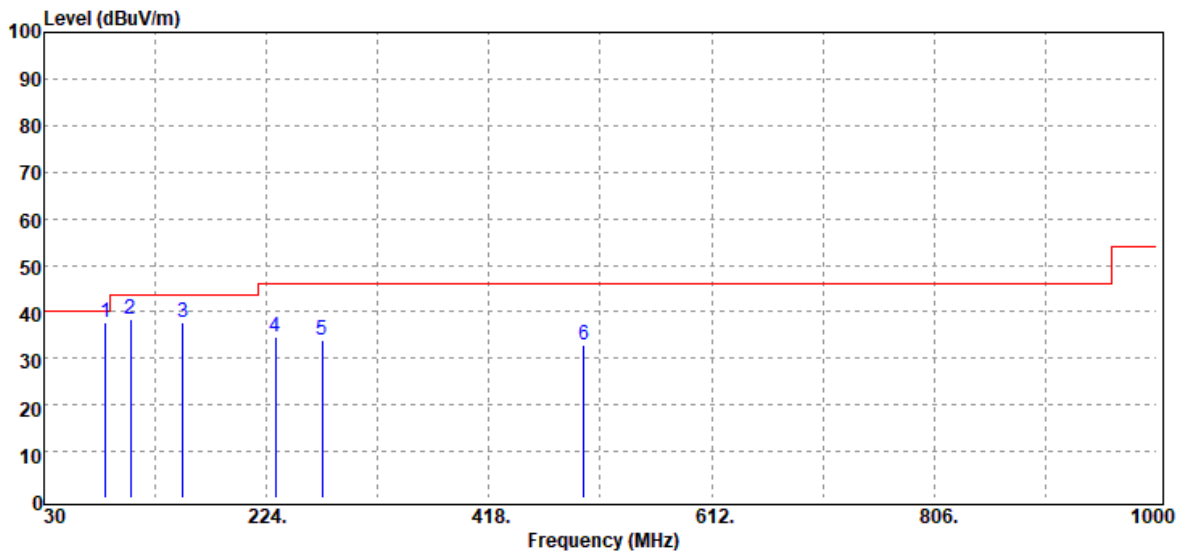
Test Mode:	BT Mode	Temp/Hum	22.5(°C)/ 59%RH
Test Item	30MHz-1GHz	Test Date	November 28, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
42.61	Peak	50.01	-11.25	38.76	40.00	-1.24
83.35	Peak	49.55	-15.52	34.03	40.00	-5.97
105.66	Peak	45.84	-11.02	34.82	43.50	-8.68
148.34	Peak	40.57	-10.10	30.47	43.50	-13.03
500.45	Peak	36.55	-2.93	33.62	46.00	-12.38
749.74	Peak	29.06	2.12	31.18	46.00	-14.82

Report No.: T191111W02-RP2

Test Mode:	BT Mode	Temp/Hum	22.5(°C)/ 59%RH
Test Item	30MHz-1GHz	Test Date	November 28, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

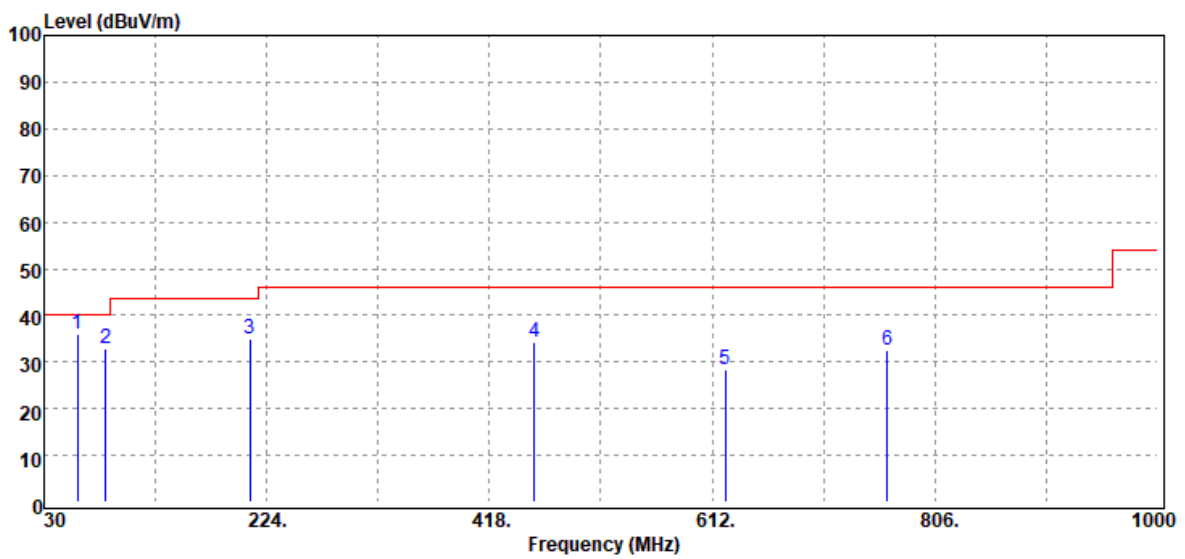


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
83.35	Peak	53.20	-15.52	37.68	40.00	-2.32
105.66	Peak	49.28	-11.02	38.26	43.50	-5.24
151.25	Peak	47.48	-9.90	37.58	43.50	-5.92
231.76	Peak	45.43	-10.75	34.68	46.00	-11.32
272.50	Peak	42.51	-8.49	34.02	46.00	-11.98
500.45	Peak	35.85	-2.93	32.92	46.00	-13.08

Report No.: T191111W02-RP2

Dipole Antenna

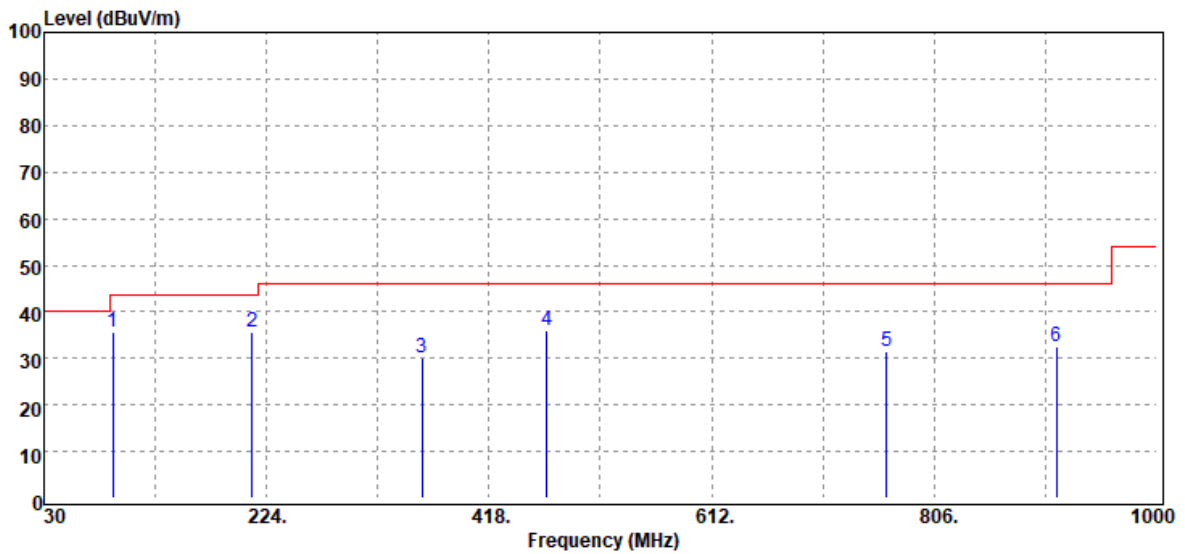
Test Mode:	BT Mode	Temp/Hum	22.5(°C)/ 59%RH
Test Item	30MHz-1GHz	Test Date	December 31, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
59.10	Peak	51.83	-15.96	35.87	40.00	-4.13
83.35	Peak	48.44	-15.52	32.92	40.00	-7.08
209.45	Peak	46.38	-11.57	34.81	43.50	-8.69
456.80	Peak	37.96	-3.76	34.20	46.00	-11.80
623.64	Peak	29.16	-0.66	28.50	46.00	-17.50
764.29	Peak	30.79	1.70	32.49	46.00	-13.51

Report No.: T191111W02-RP2

Test Mode:	BT Mode	Temp/Hum	22.5(°C)/ 59%RH
Test Item	30MHz-1GHz	Test Date	December 31, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



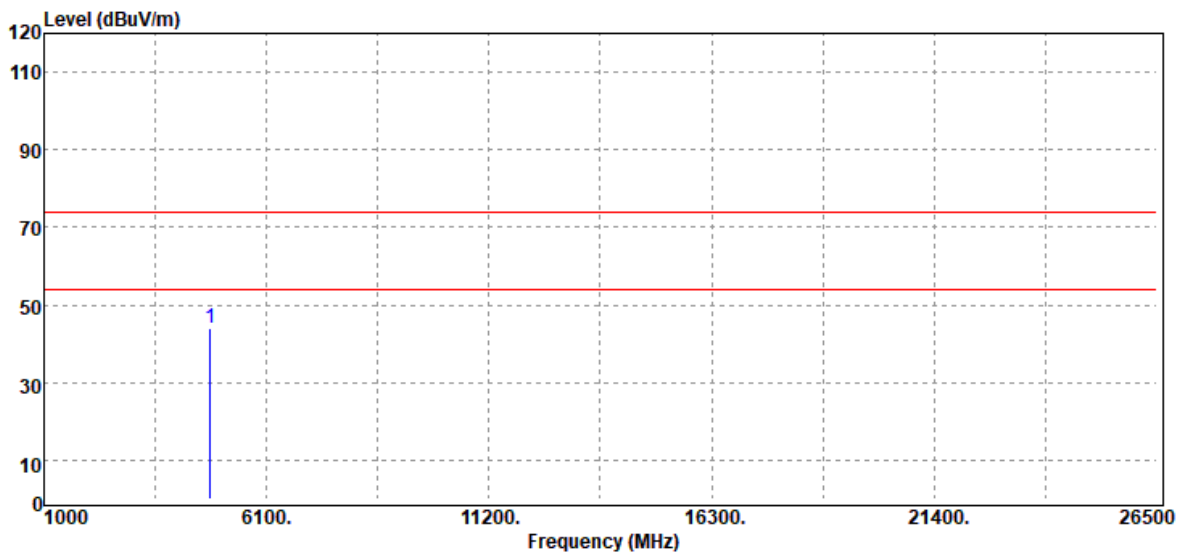
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
90.14	Peak	50.71	-15.23	35.48	43.50	-8.02
211.39	Peak	47.21	-11.57	35.64	43.50	-7.86
359.80	Peak	36.85	-6.59	30.26	46.00	-15.74
468.44	Peak	39.59	-3.44	36.15	46.00	-9.85
764.29	Peak	29.92	1.70	31.62	46.00	-14.38
912.70	Peak	28.72	3.89	32.61	46.00	-13.39

Report No.: T191111W02-RP2

Above 1G Test Data

PCB Antenna

Test Mode:	GFSK_BDR-1Mbps Low CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Harmonic	Test Date	December 27, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



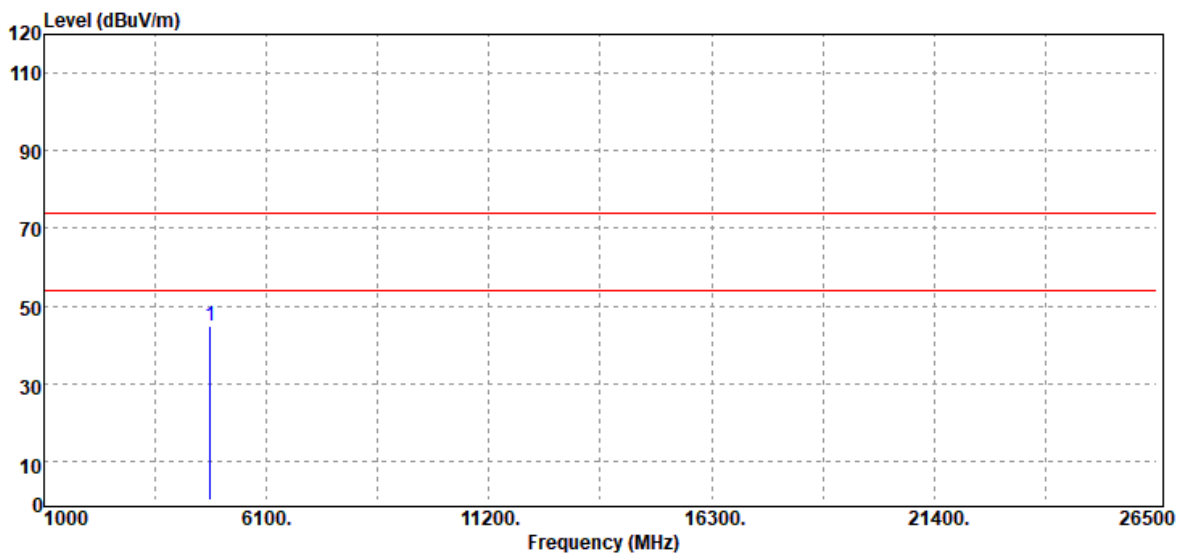
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.00	Peak	41.07	2.84	43.91	74.00	-30.09
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T191111W02-RP2

Test Mode:	GFSK_BDR-1Mbps Low CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Harmonic	Test Date	December 27, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



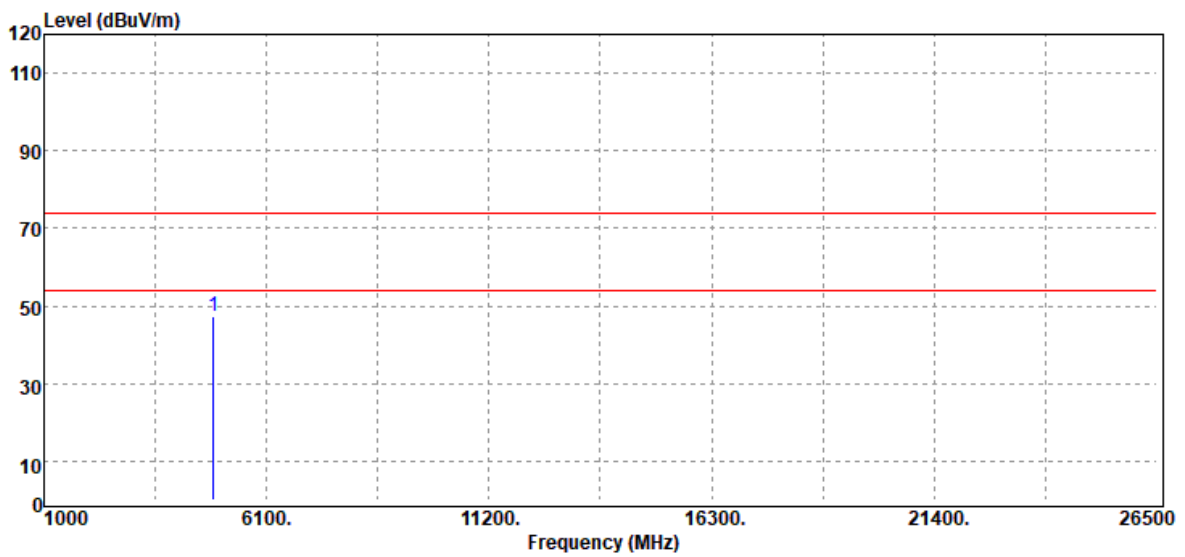
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4804.00	Peak	41.82	2.84	44.66	74.00	-29.34
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T191111W02-RP2

Test Mode:	GFSK_BDR-1Mbps Mid CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Harmonic	Test Date	December 27, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



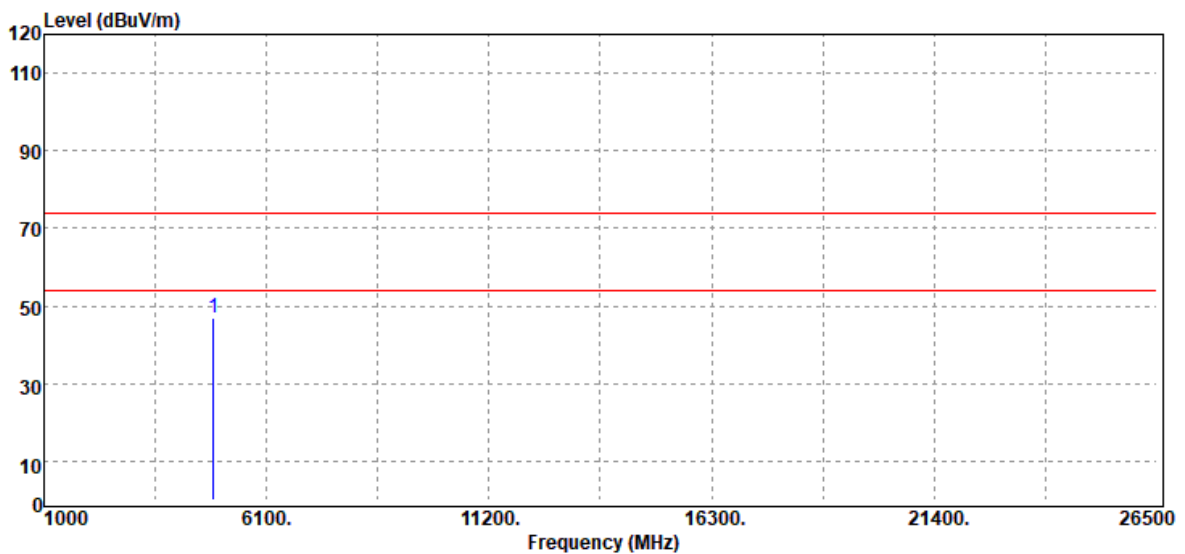
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4882.00	Peak	44.19	3.03	47.22	74.00	-26.78
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T191111W02-RP2

Test Mode:	GFSK_BDR-1Mbps Mid CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Harmonic	Test Date	December 27, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



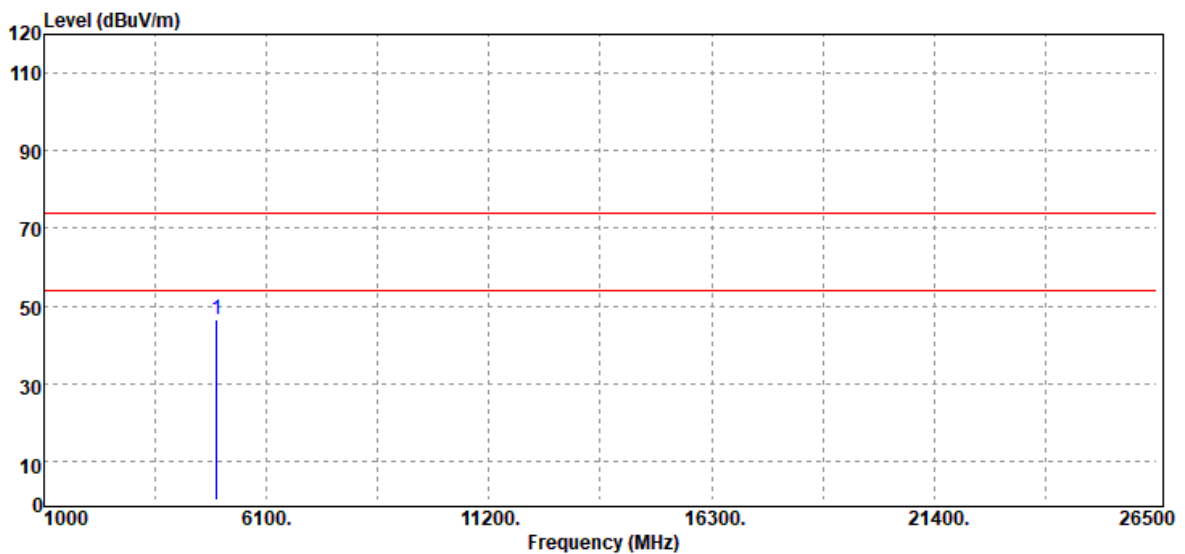
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4882.00	Peak	43.95	3.03	46.98	74.00	-27.02
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T191111W02-RP2

Test Mode:	GFSK_BDR-1Mbps High CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Harmonic	Test Date	December 27, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



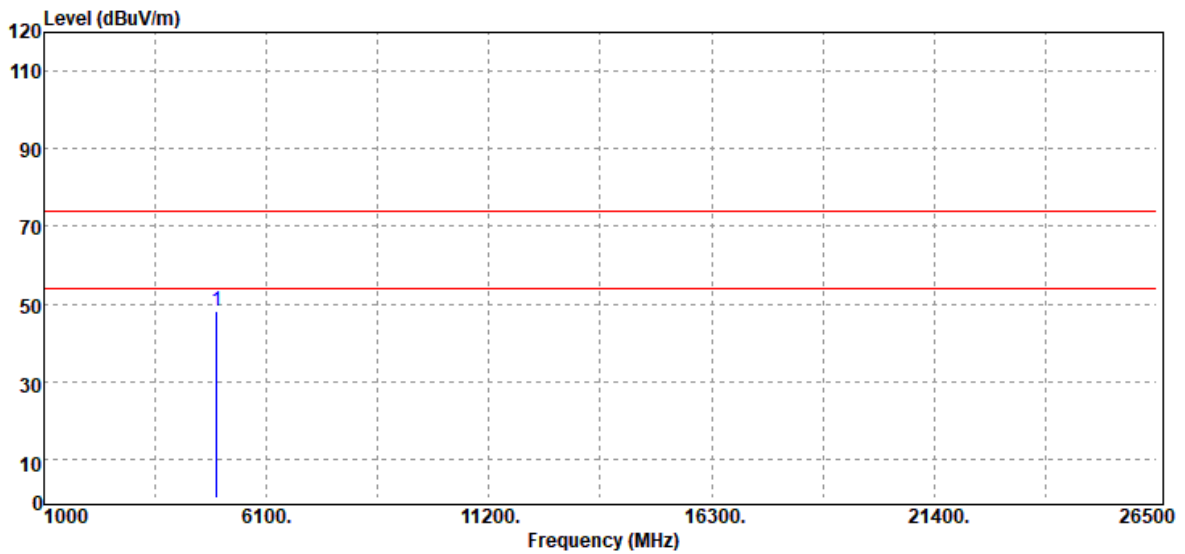
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.00	Peak	42.53	3.85	46.38	74.00	-27.62
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T191111W02-RP2

Test Mode:	GFSK_BDR-1Mbps High CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Harmonic	Test Date	December 27, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



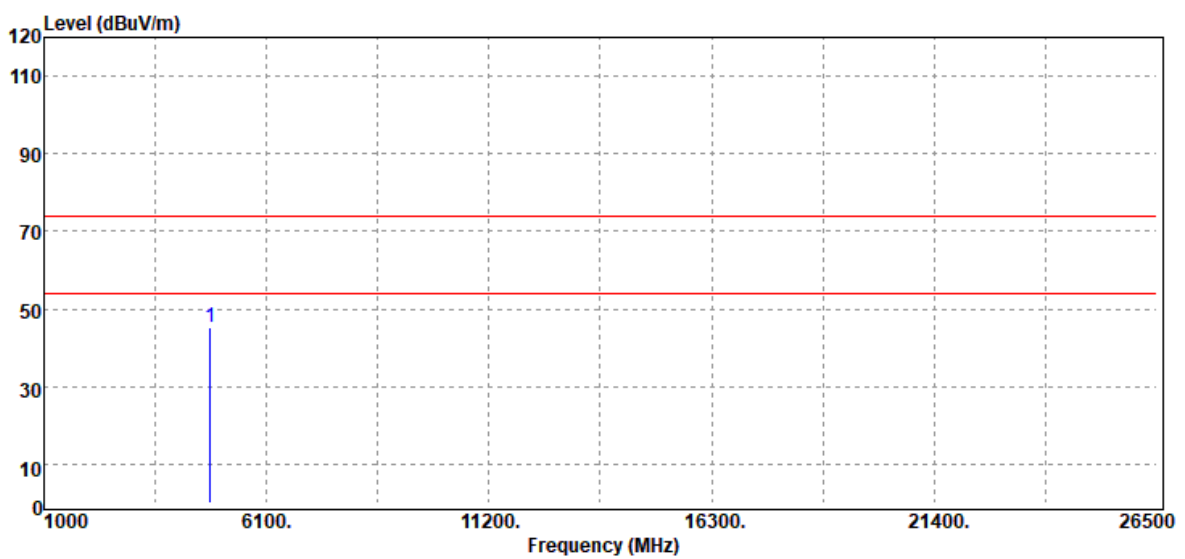
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4960.00	Peak	44.11	3.85	47.96	74.00	-26.04
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T191111W02-RP2

Test Mode	8DPSK_EDR-3Mbps Low CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Harmonic	Test Date	December 27, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



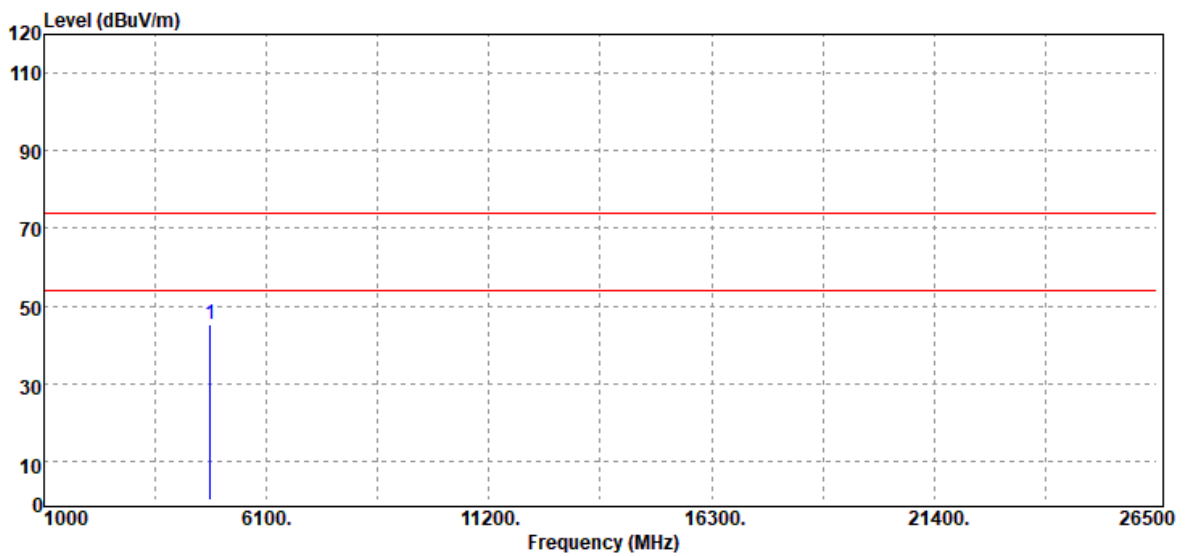
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4804.00	Peak	41.68	3.56	45.24	74.00	-28.76
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T191111W02-RP2

Test Mode	8DPSK_EDR-3Mbps Low CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Harmonic	Test Date	December 27, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



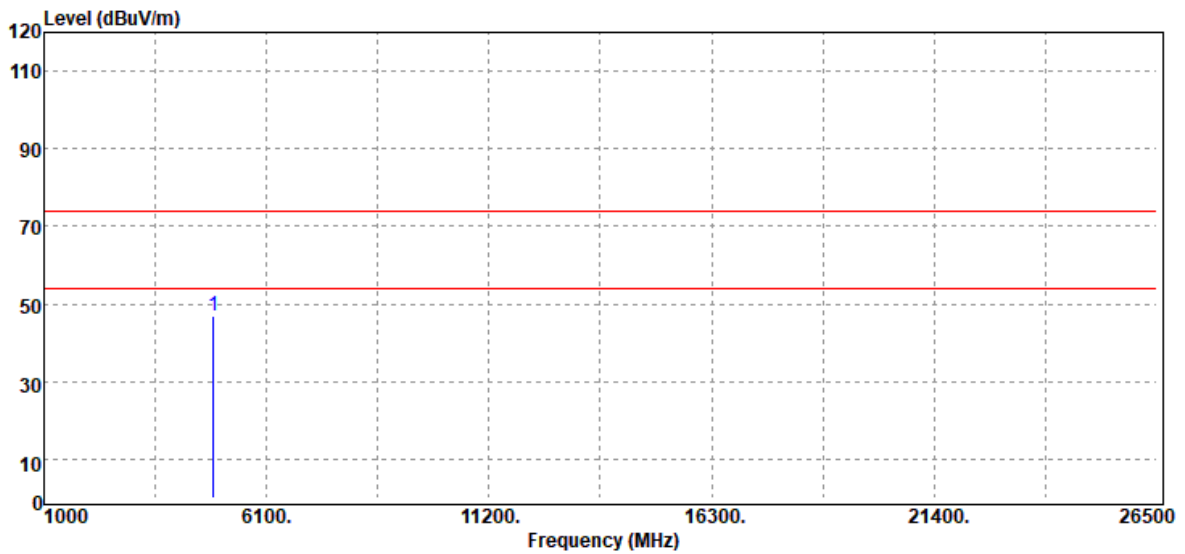
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.00	Peak	41.77	3.56	45.33	74.00	-28.67
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T191111W02-RP2

Test Mode	8DPSK_EDR-3Mbps Mid CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Harmonic	Test Date	December 27, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



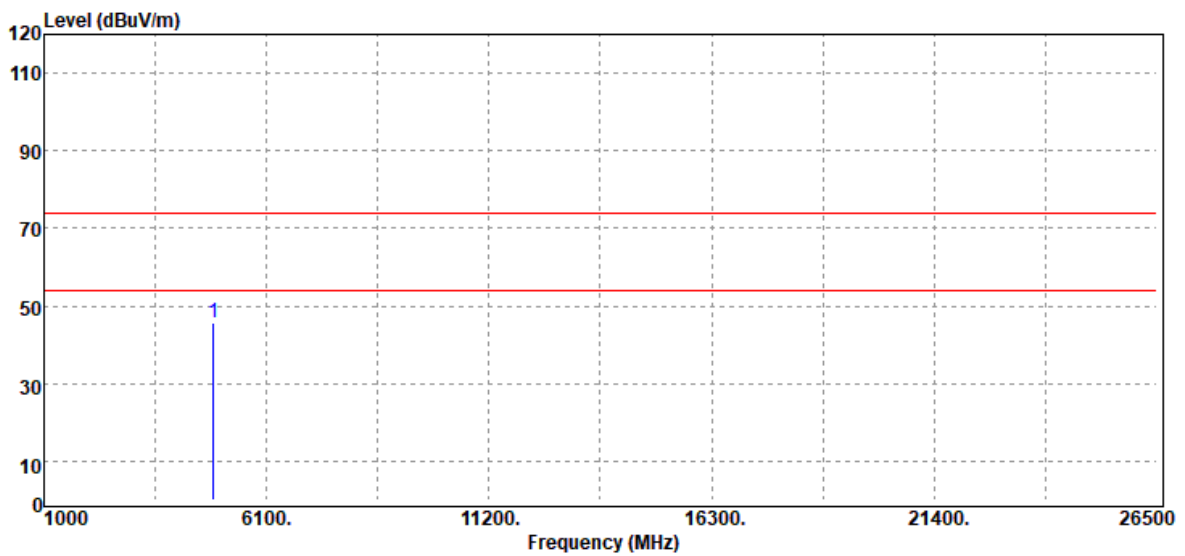
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4882.00	Peak	43.03	3.78	46.81	74.00	-27.19
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T191111W02-RP2

Test Mode	8DPSK_EDR-3Mbps Mid CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Harmonic	Test Date	December 27, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



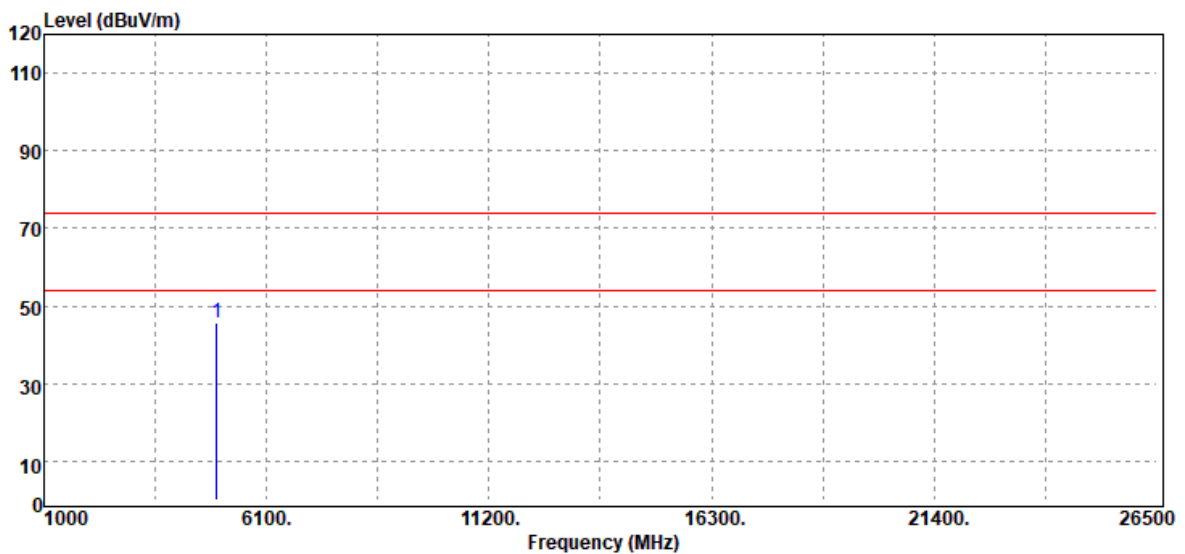
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4882.00	Peak	42.08	3.78	45.86	74.00	-28.14
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T191111W02-RP2

Test Mode	8DPSK_EDR-3Mbps High CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Harmonic	Test Date	December 27, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



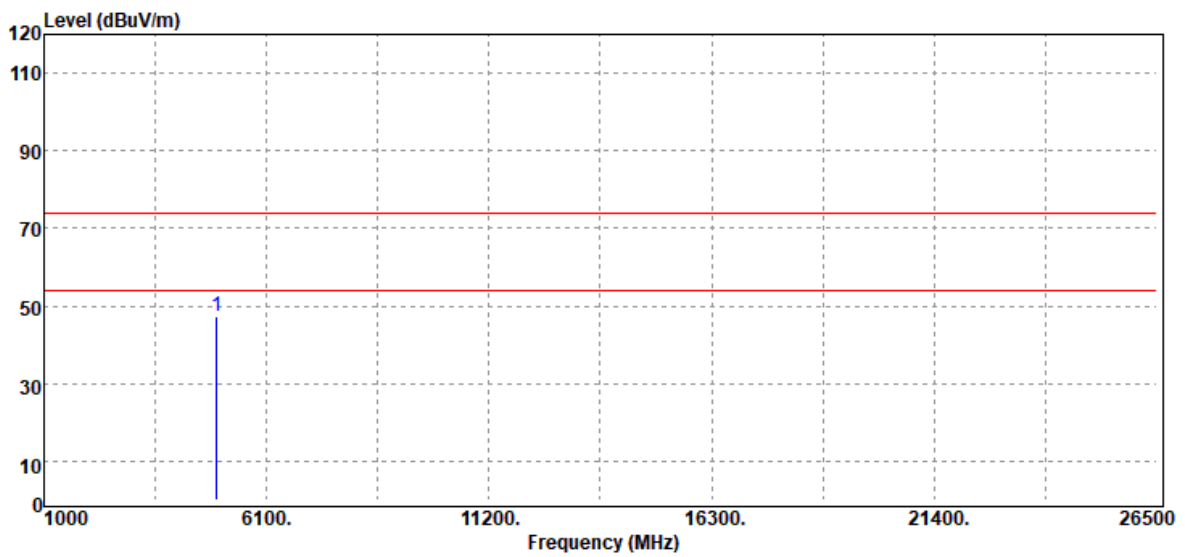
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.00	Peak	41.24	4.56	45.80	74.00	-28.20
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T191111W02-RP2

Test Mode	8DPSK_EDR-3Mbps High CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Harmonic	Test Date	December 27, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.00	Peak	42.79	4.56	47.35	74.00	-26.65
N/A						

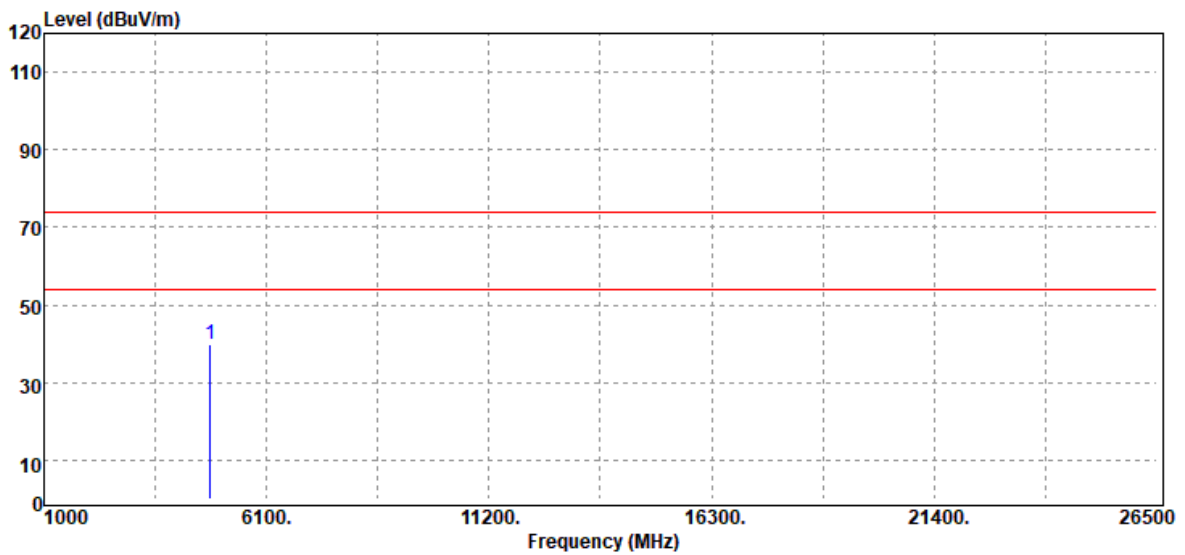
Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T191111W02-RP2

Chip Antenna

Test Mode:	GFSK_BDR-1Mbps Low CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Harmonic	Test Date	November 29, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



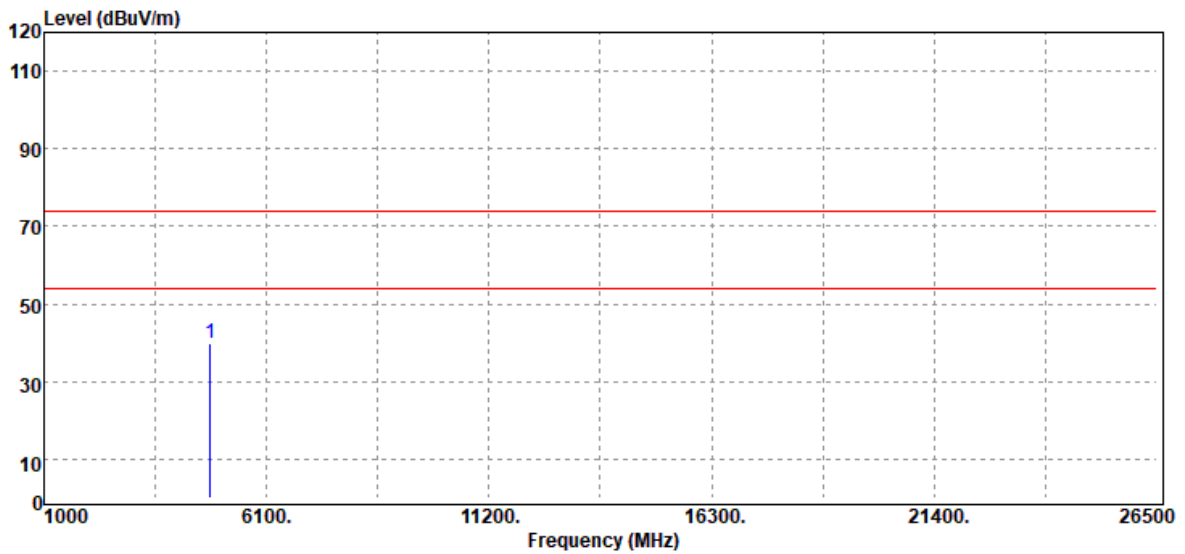
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4804.00	Peak	37.15	2.84	39.99	74.00	-34.01
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T191111W02-RP2

Test Mode:	GFSK_BDR-1Mbps Low CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Harmonic	Test Date	November 29, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



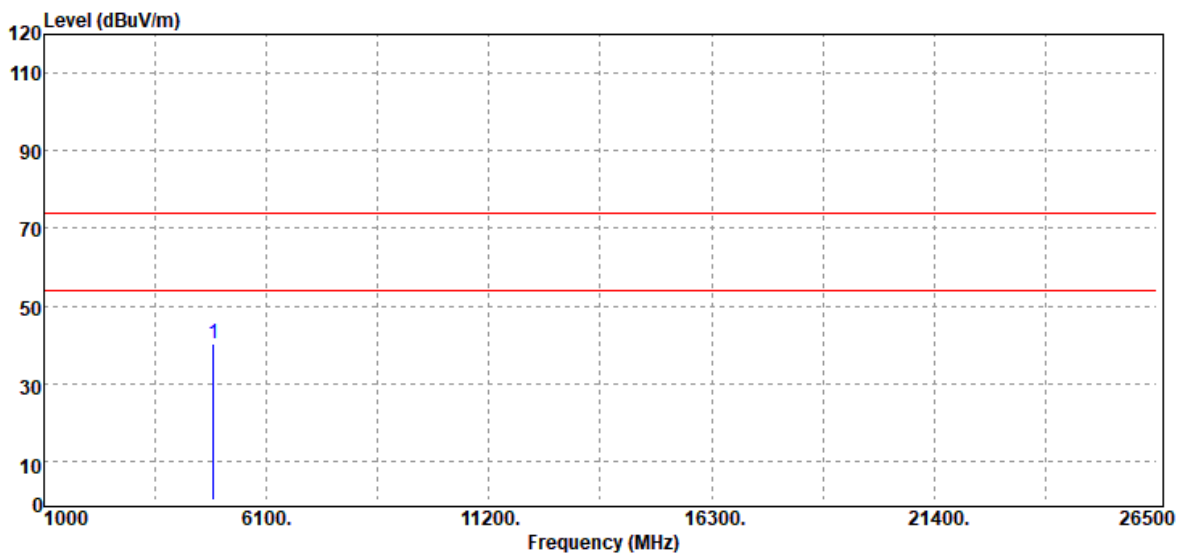
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4804.00	Peak	36.84	2.84	39.68	74.00	-34.32
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T191111W02-RP2

Test Mode:	GFSK_BDR-1Mbps Mid CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Harmonic	Test Date	November 29, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



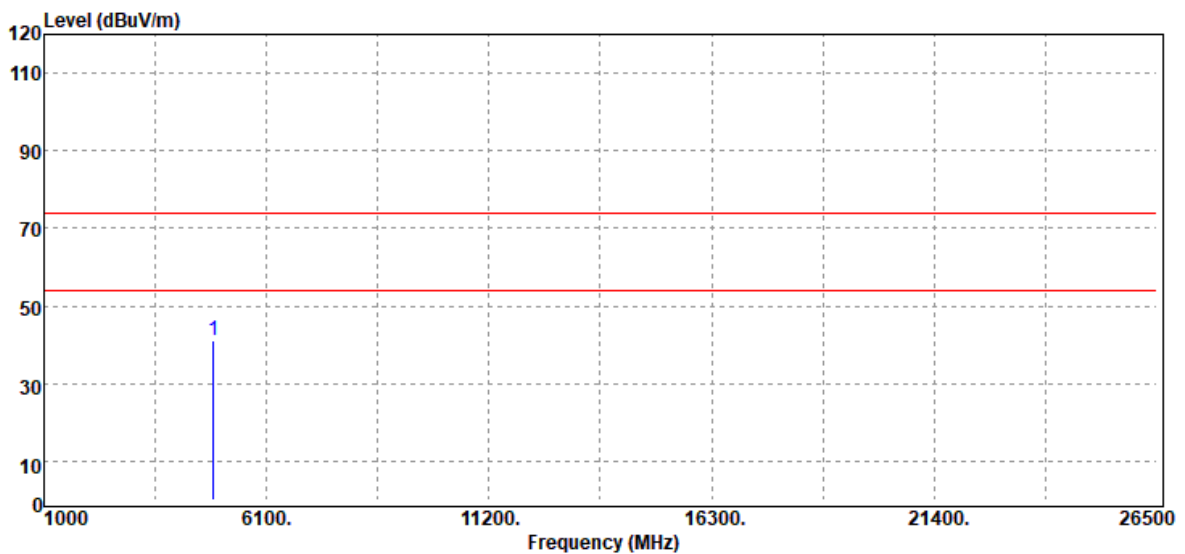
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4882.00	Peak	37.33	3.03	40.36	74.00	-33.64
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T191111W02-RP2

Test Mode:	GFSK_BDR-1Mbps Mid CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Harmonic	Test Date	November 29, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



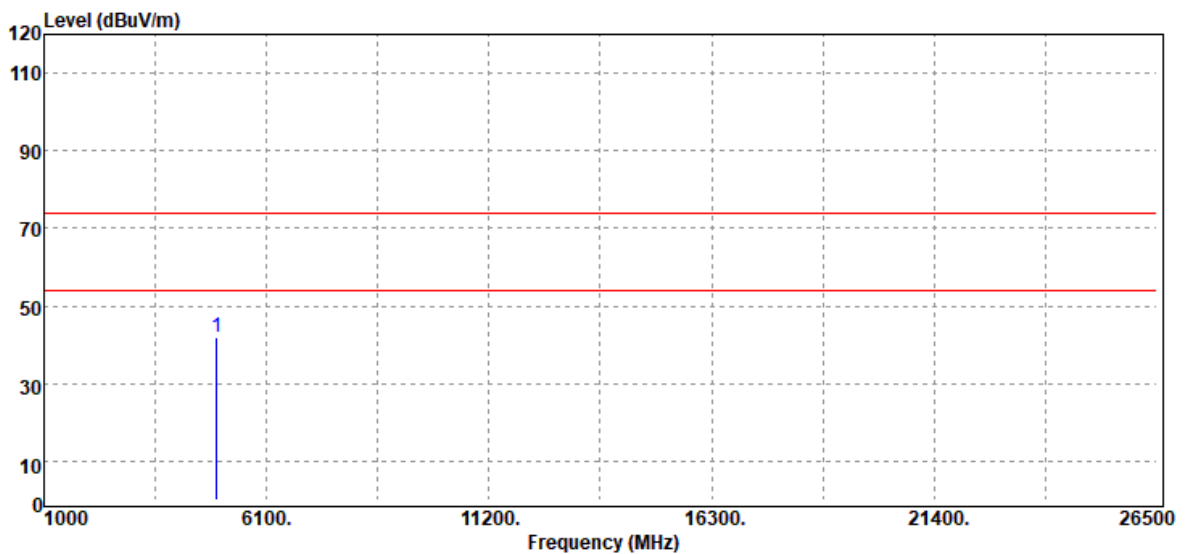
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4882.00	Peak	37.97	3.03	41.00	74.00	-33.00
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T191111W02-RP2

Test Mode:	GFSK_BDR-1Mbps High CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Harmonic	Test Date	November 29, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



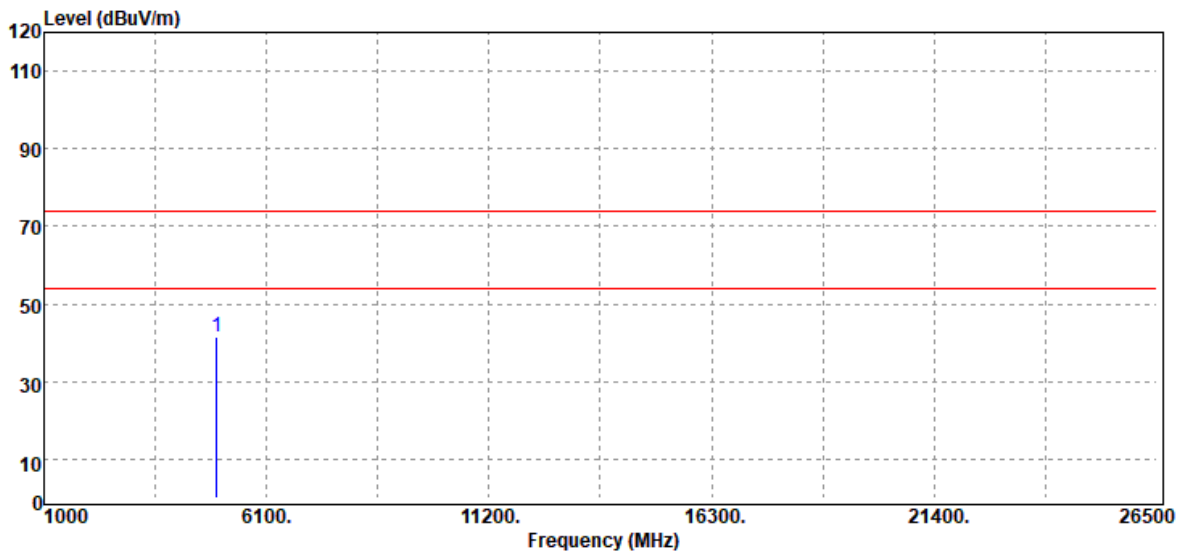
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Peak	37.97	3.85	41.82	74.00	-32.18
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T191111W02-RP2

Test Mode:	GFSK_BDR-1Mbps High CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Harmonic	Test Date	November 29, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



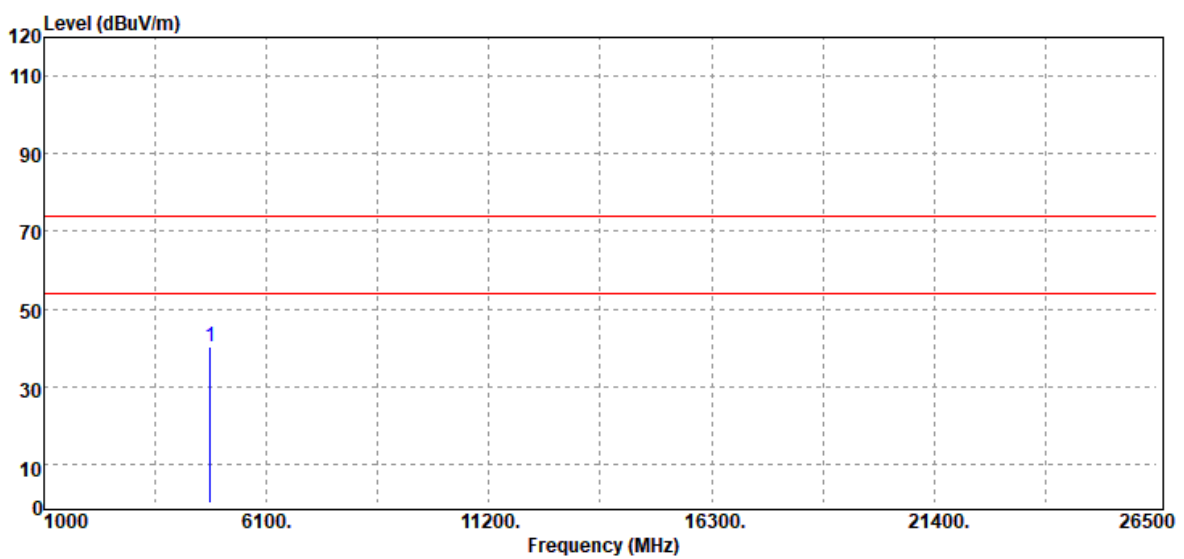
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.00	Peak	37.63	3.85	41.48	74.00	-32.52
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T191111W02-RP2

Test Mode	8DPSK_EDR-3Mbps Low CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Harmonic	Test Date	November 29, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



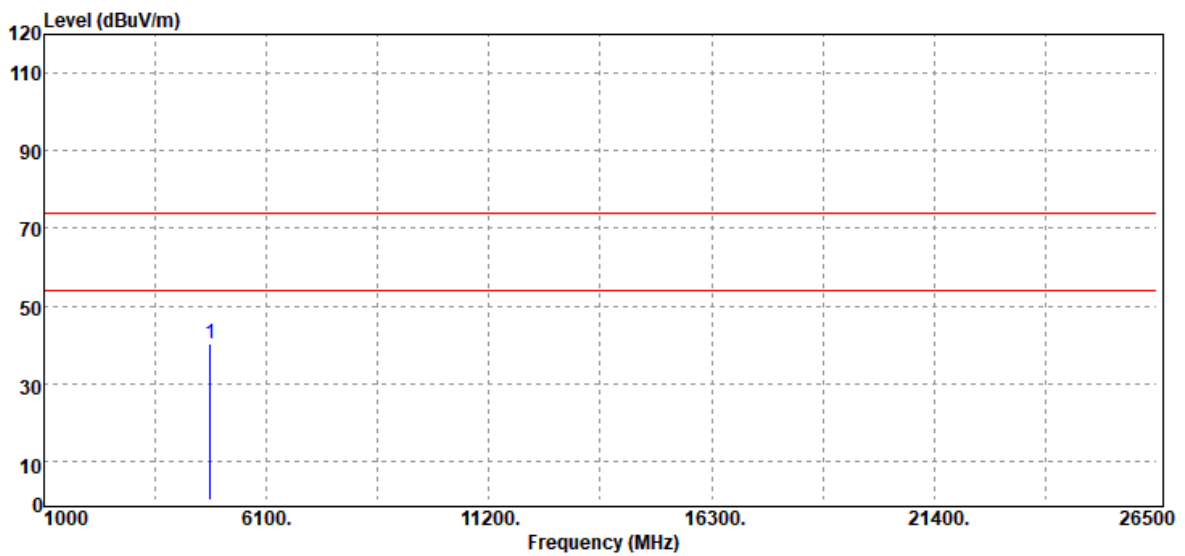
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4804.00	Peak	37.25	2.84	40.09	74.00	-33.91
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T191111W02-RP2

Test Mode	8DPSK_EDR-3Mbps Low CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Harmonic	Test Date	November 29, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



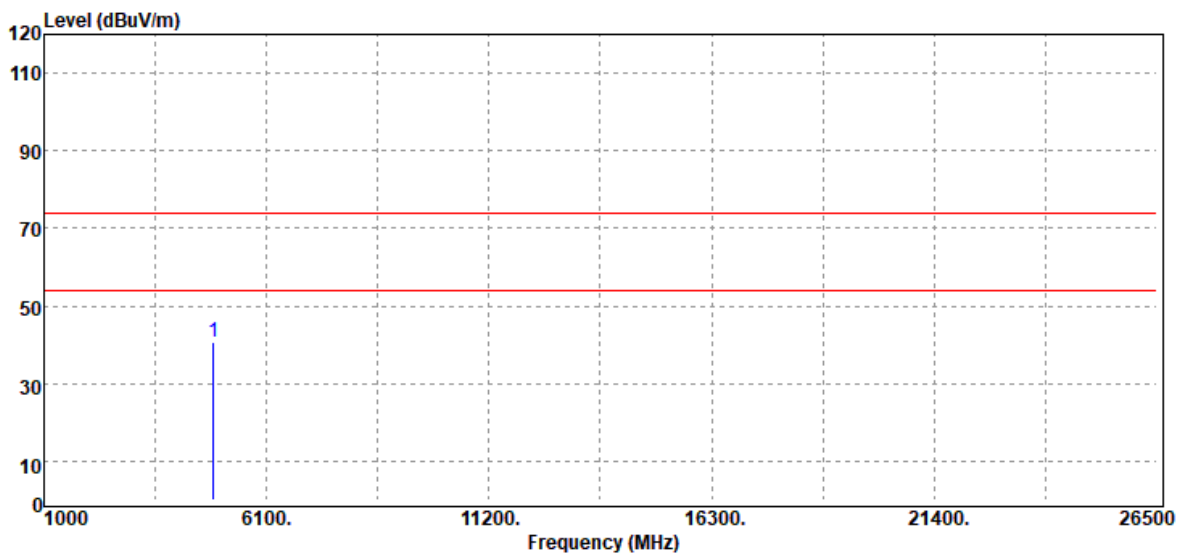
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.00	Peak	37.32	2.84	40.16	74.00	-33.84
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T191111W02-RP2

Test Mode	8DPSK_EDR-3Mbps Mid CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Harmonic	Test Date	November 29, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



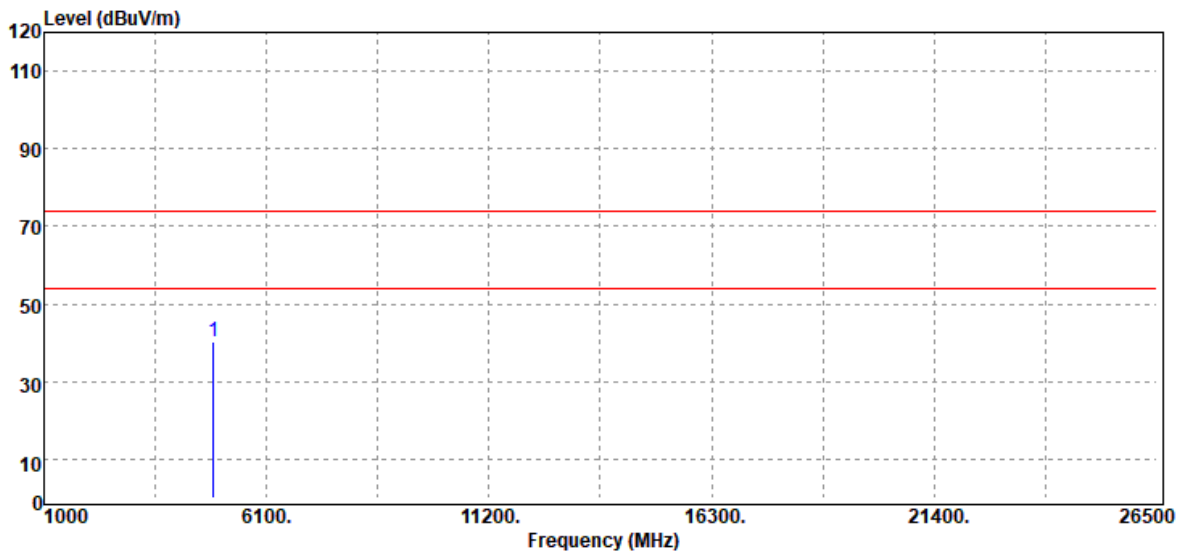
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4882.00	Peak	37.63	3.03	40.66	74.00	-33.34
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T191111W02-RP2

Test Mode	8DPSK_EDR-3Mbps Mid CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Harmonic	Test Date	November 29, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



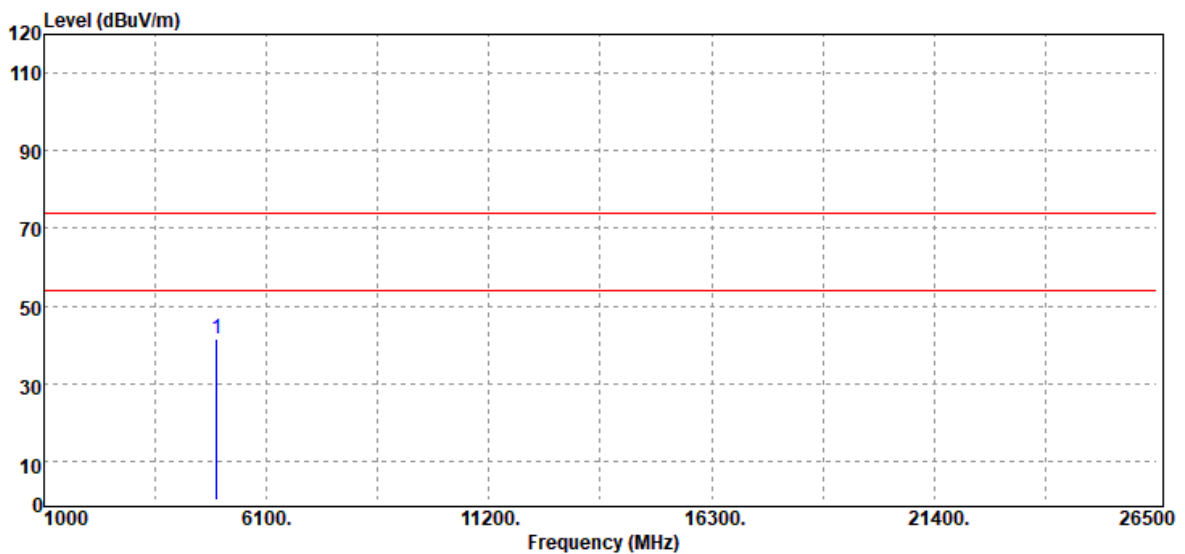
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4882.00	Peak	37.33	3.03	40.36	74.00	-33.64
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T191111W02-RP2

Test Mode	8DPSK_EDR-3Mbps High CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Harmonic	Test Date	November 29, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



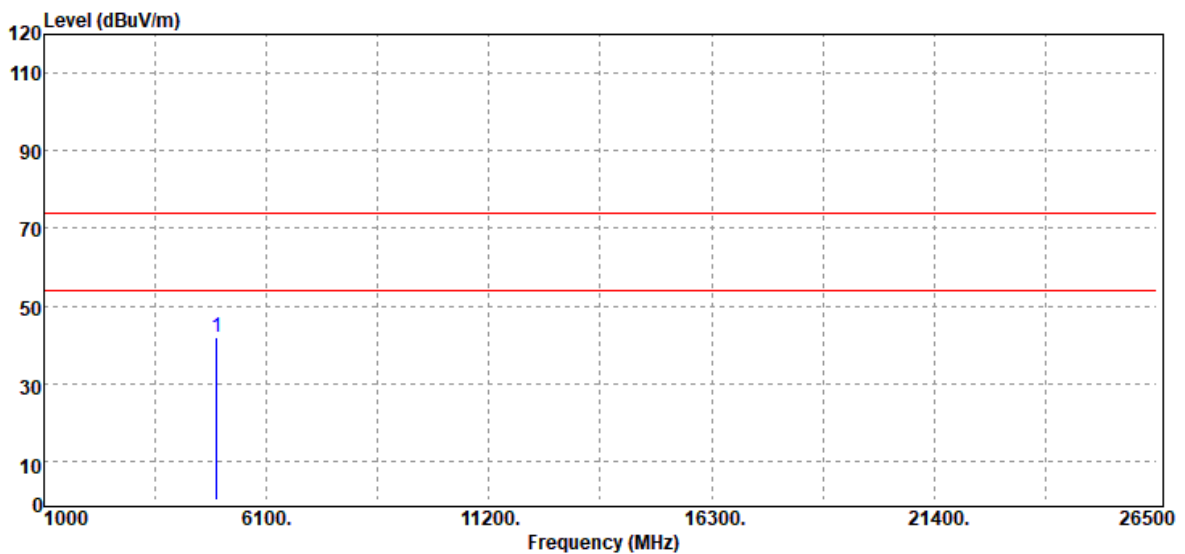
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Peak	37.79	3.85	41.64	74.00	-32.36
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T191111W02-RP2

Test Mode	8DPSK_EDR-3Mbps High CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Harmonic	Test Date	November 29, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4960.00	Peak	38.25	3.85	42.10	74.00	-31.90
N/A						

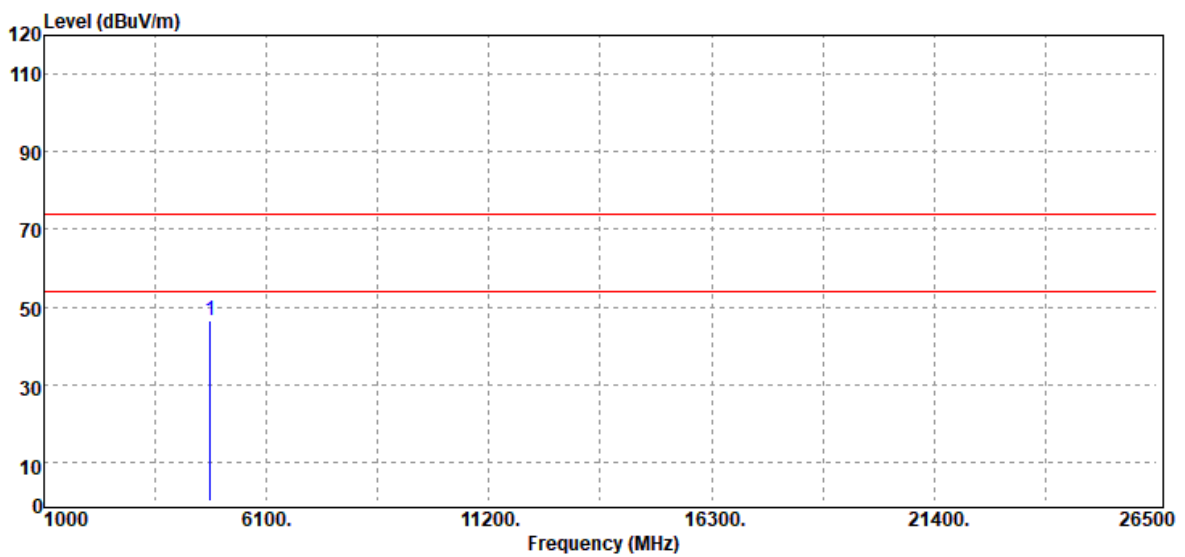
Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T191111W02-RP2

Dipole Antenna

Test Mode:	GFSK_BDR-1Mbps Low CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Harmonic	Test Date	December 27, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



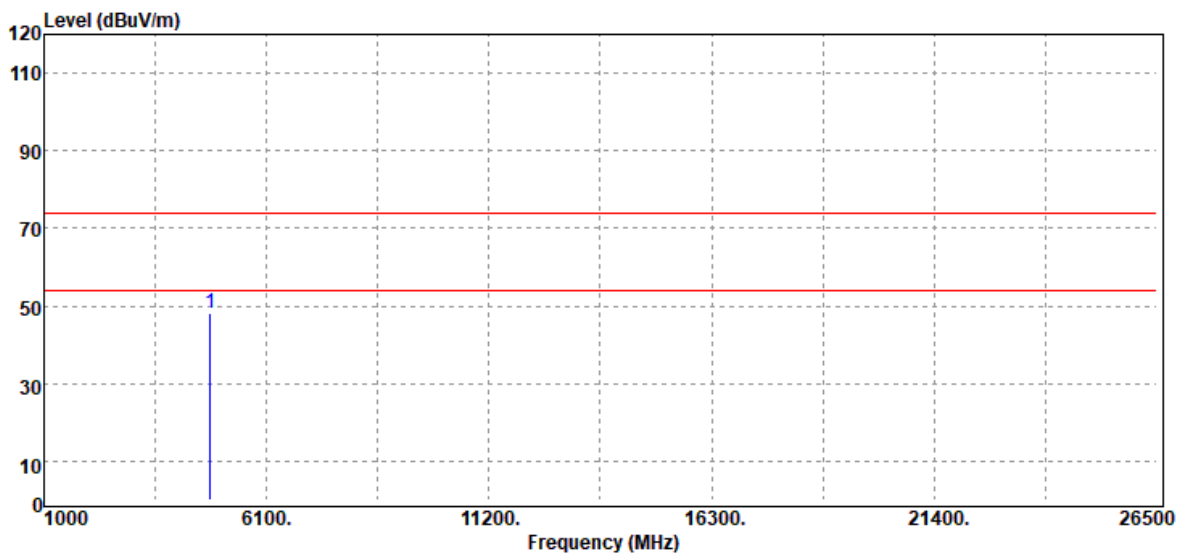
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4804.00	Peak	43.03	3.56	46.59	74.00	-27.41
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T191111W02-RP2

Test Mode:	GFSK_BDR-1Mbps Low CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Harmonic	Test Date	December 27, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



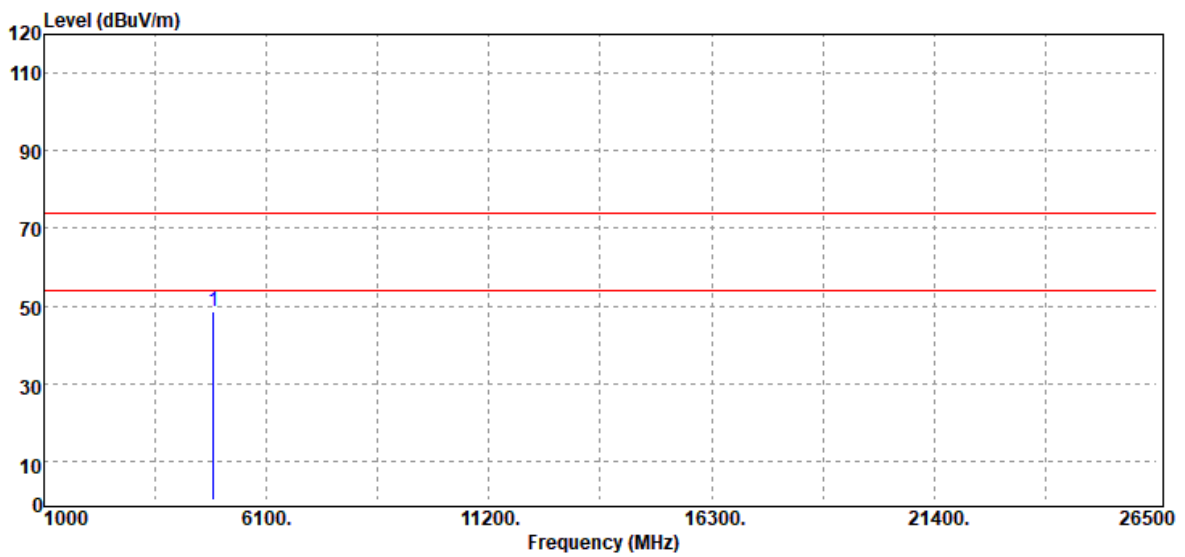
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4804.00	Peak	44.69	3.56	48.25	74.00	-25.75
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T191111W02-RP2

Test Mode:	GFSK_BDR-1Mbps Mid CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Harmonic	Test Date	December 27, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



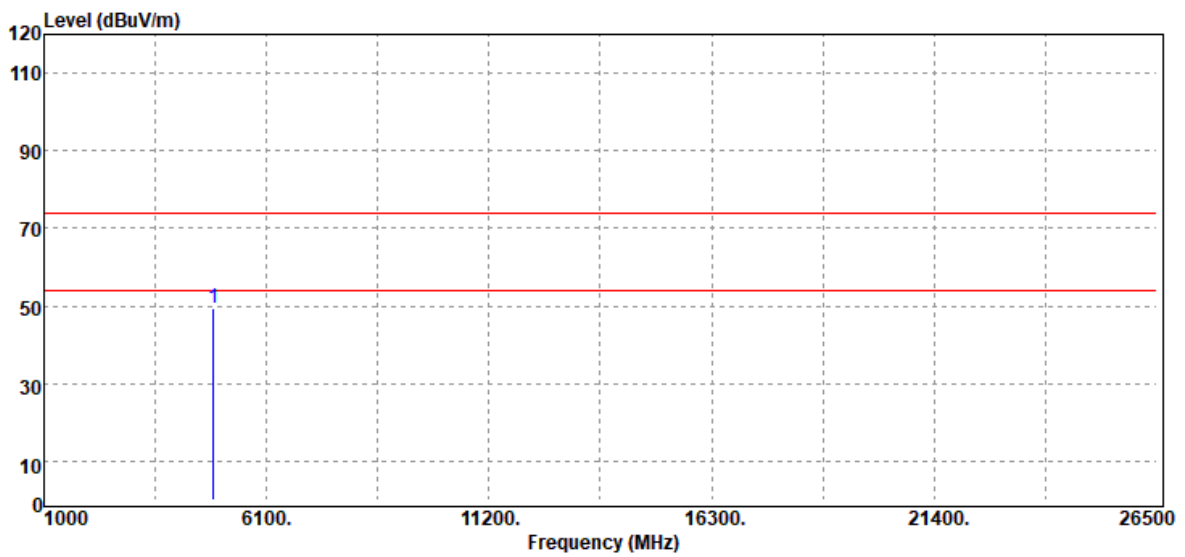
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4882.00	Peak	44.76	3.78	48.54	74.00	-25.46
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T191111W02-RP2

Test Mode:	GFSK_BDR-1Mbps Mid CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Harmonic	Test Date	December 27, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



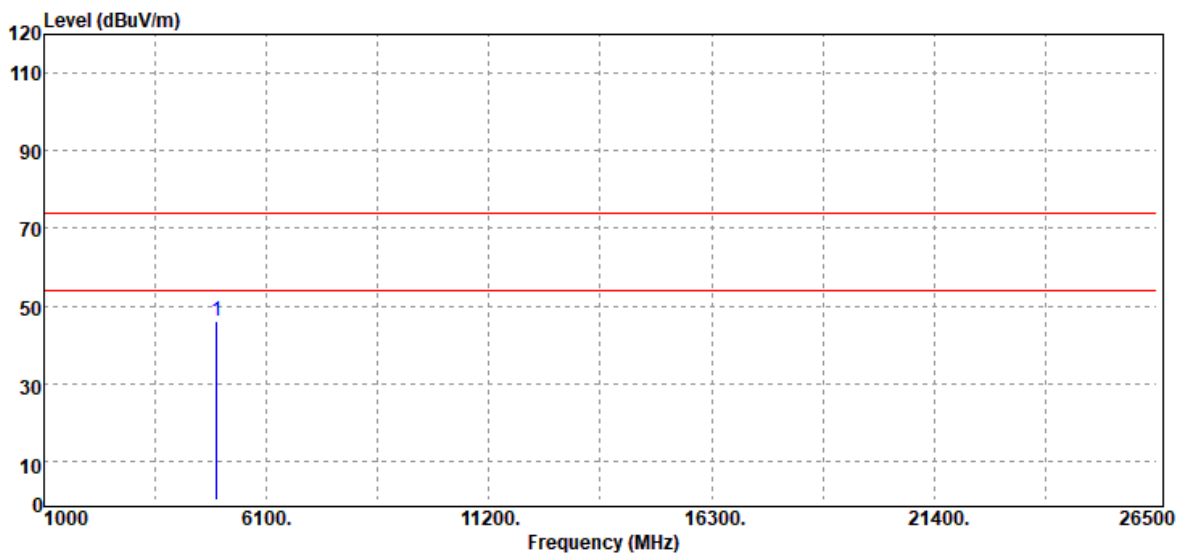
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4882.00	Peak	45.82	3.78	49.60	74.00	-24.40
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T191111W02-RP2

Test Mode:	GFSK_BDR-1Mbps High CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Harmonic	Test Date	December 27, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



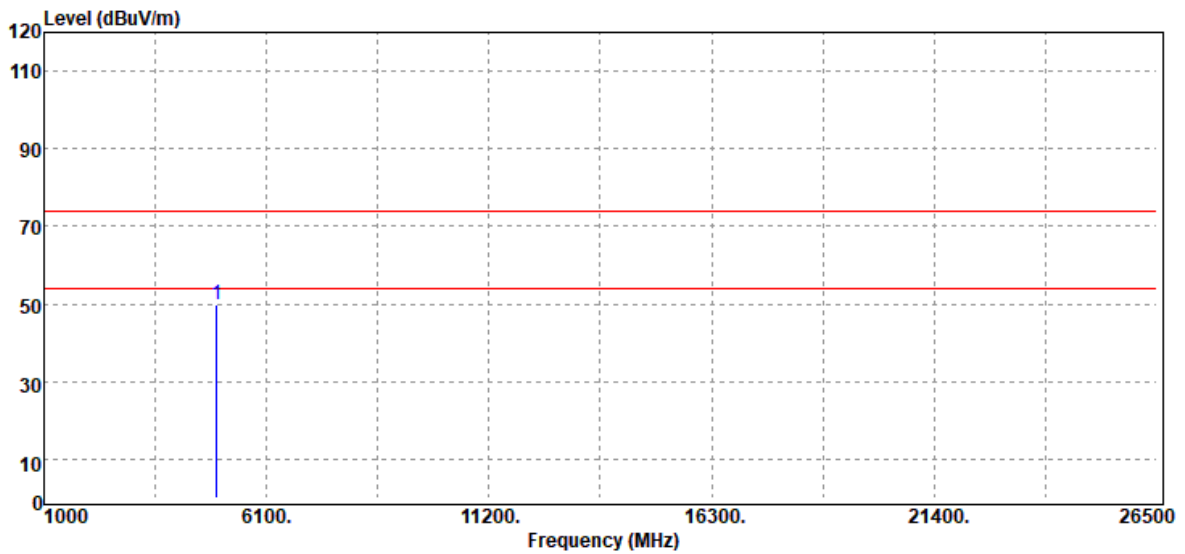
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.00	Peak	41.51	4.56	46.07	74.00	-27.93
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T191111W02-RP2

Test Mode:	GFSK_BDR-1Mbps High CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Harmonic	Test Date	December 27, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



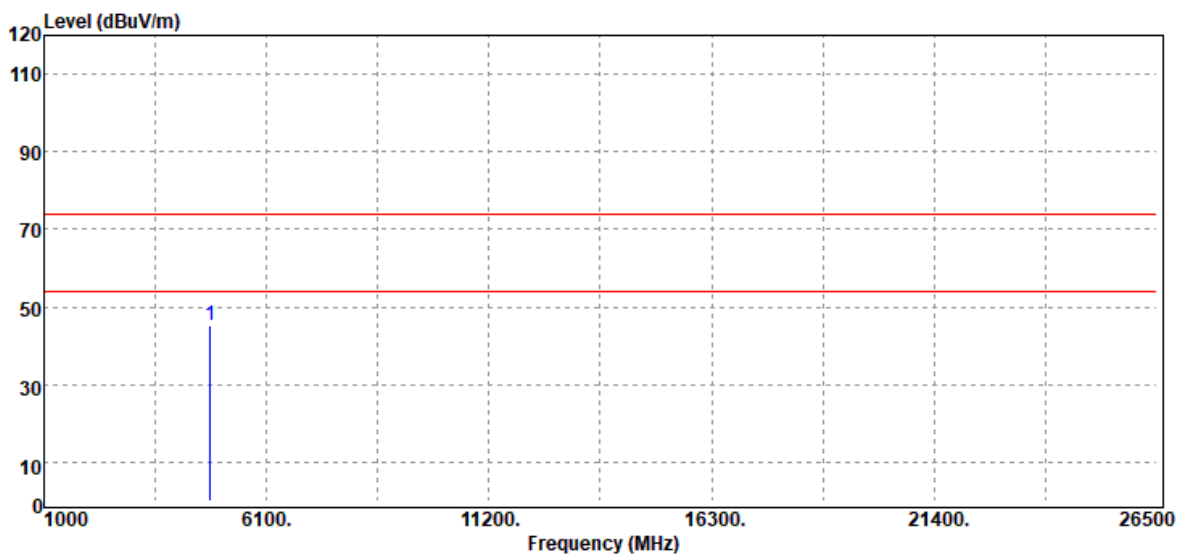
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.00	Peak	45.14	4.56	49.70	74.00	-24.30
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T191111W02-RP2

Test Mode	8DPSK_EDR-3Mbps Low CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Harmonic	Test Date	December 27, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

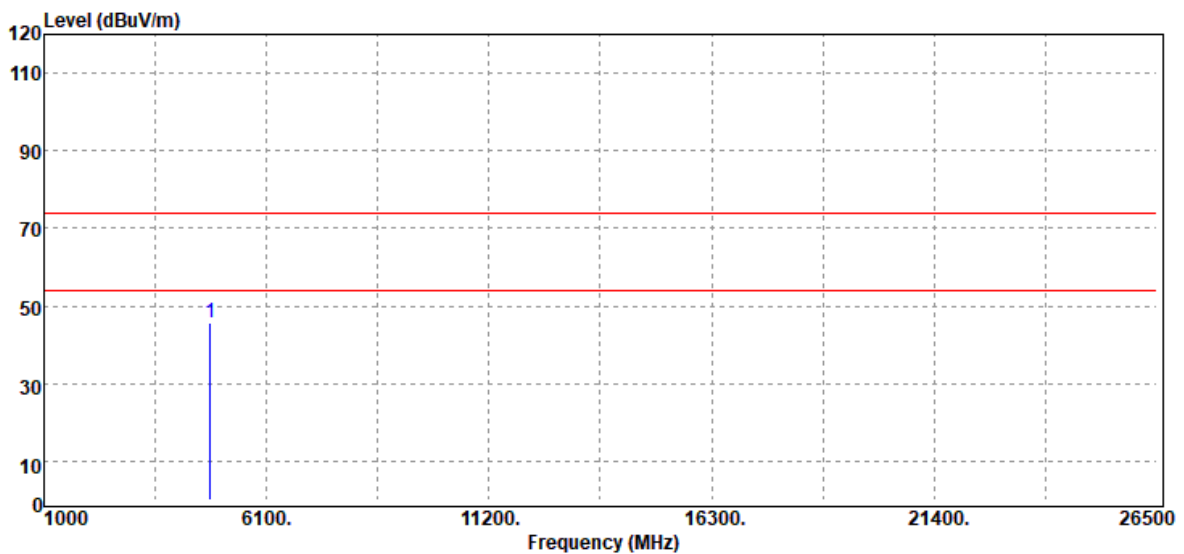


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4804.00	Peak	41.66	3.56	45.22	74.00	-28.78
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	8DPSK_EDR-3Mbps Low CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Harmonic	Test Date	December 27, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



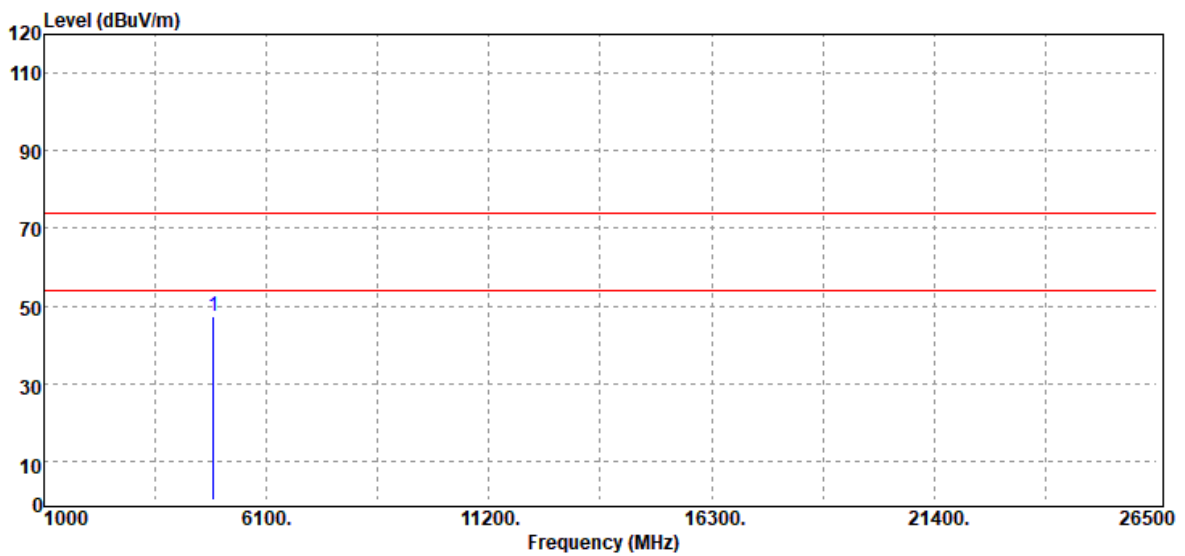
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4804.00	Peak	41.99	3.56	45.55	74.00	-28.45
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T191111W02-RP2

Test Mode	8DPSK_EDR-3Mbps Mid CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Harmonic	Test Date	December 27, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



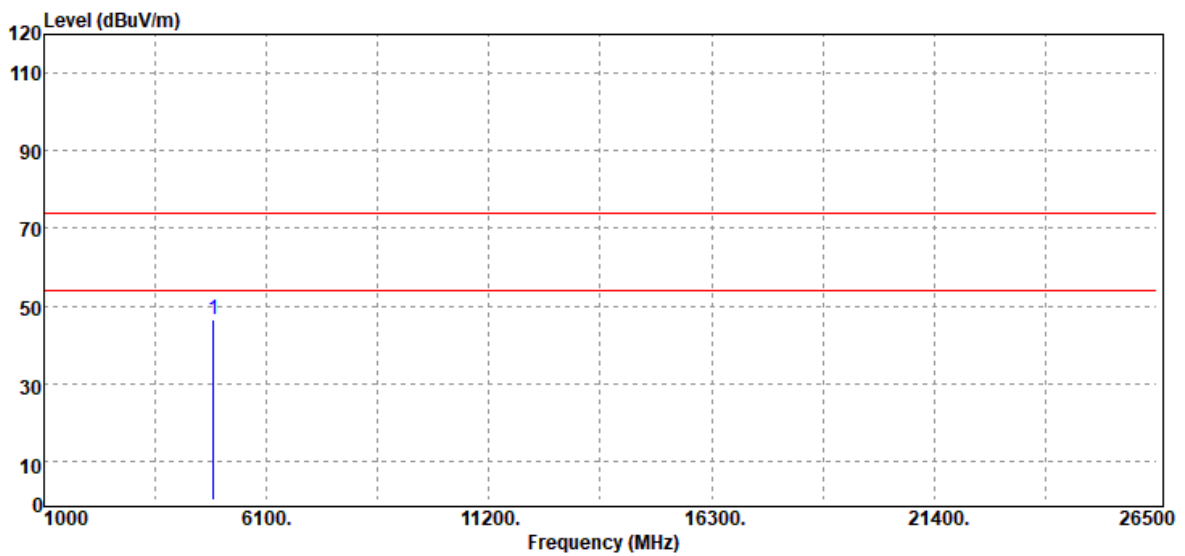
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4882.00	Peak	43.68	3.78	47.46	74.00	-26.54
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T191111W02-RP2

Test Mode	8DPSK_EDR-3Mbps Mid CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Harmonic	Test Date	December 27, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



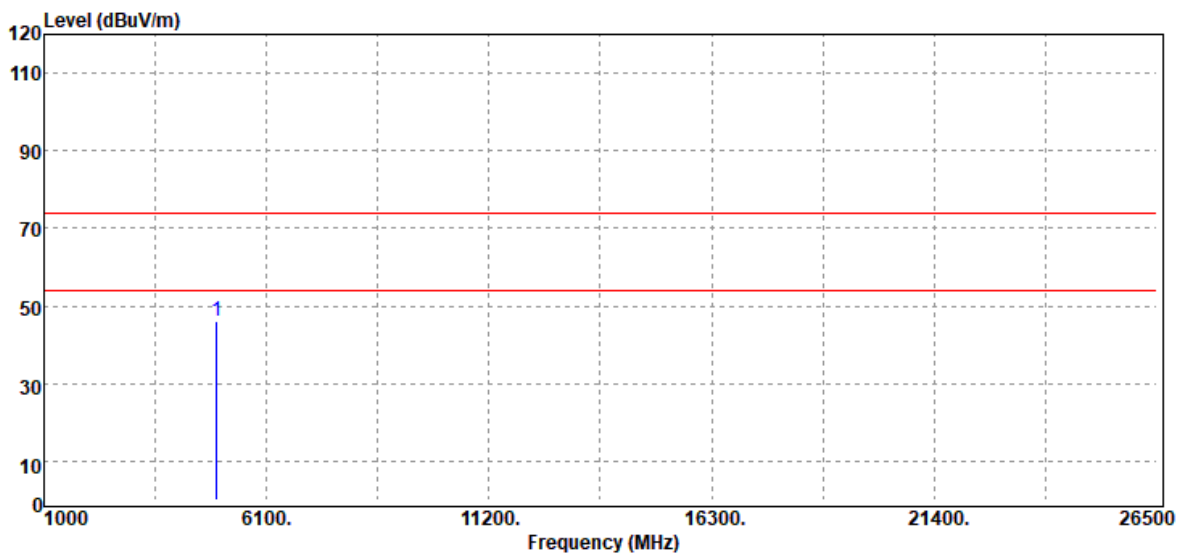
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4882.00	Peak	42.87	3.78	46.65	74.00	-27.35
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T191111W02-RP2

Test Mode	8DPSK_EDR-3Mbps High CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Harmonic	Test Date	December 27, 2019
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		



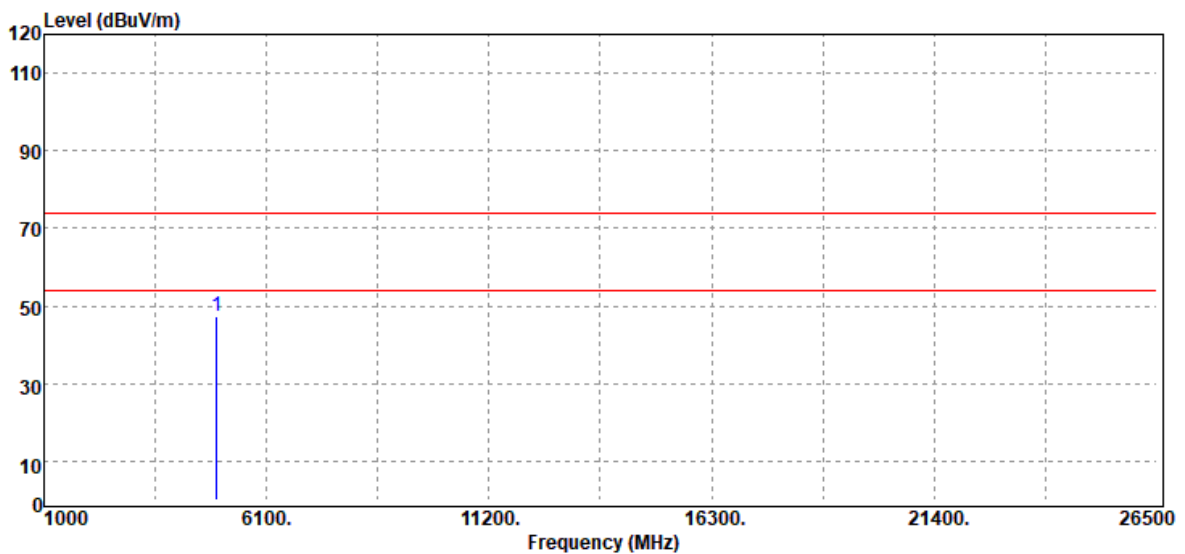
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4960.00	Peak	41.53	4.56	46.09	74.00	-27.91
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T191111W02-RP2

Test Mode	8DPSK_EDR-3Mbps High CH	Temp/Hum	22.5(°C)/ 59%RH
Test Item	Harmonic	Test Date	December 27, 2019
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4960.00	Peak	42.98	4.56	47.54	74.00	-26.46
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

--End of Test Report--