

Prüfbericht-Nr.: Test report no.:	CN20SO60 (LP0002-BT) 001	Auftrags-Nr.: Order no.:	238491635	Seite 1 von 29 Page 1 of 29
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2020-09-14	
Auftraggeber: Client:	Audeze LLC. 3410 S Susan st, Santa Ana, CA 92704, USA			
Prüfgegenstand: Test item:	Penrose Wireless Stereo Headset			
Bezeichnung / Typ-Nr.: Identification / Type no.:	Penrose P RX, Penrose X RX			
Auftrags-Inhalt: Order content:	NCC LP0002 Test Report (BT)			
Prüfgrundlage: Test specification:	NCC Low-power Radio-frequency Devices Technology Regulations LP0002 (2018) Section 3.10.1			
Wareneingangsdatum: Date of sample receipt:	2020-10-05			
Prüfmuster-Nr.: Test sample no:	A002923011-047 A002923011-030			
Prüfzeitraum: Testing period:	2020-10-19 - 2020-10-29			
Ort der Prüfung: Place of testing:	EMC/RF Laboratory Taipei			
Prüflaboratorium: Testing laboratory:	Taipei Testing Laboratories			
Prüfergebnis*: Test result*:	Pass			
überprüft von: reviewed by:	genehmigt von: authorized by:			
Datum: Date:	2020-11-06	Ausstellungsdatum: Issue date:	2020-11-06	
Stellung / Position:	Senior Project Manager	Stellung / Position:	Senior Project Manager	
Sonstiges / Other:	The RF characteristics and PCB layout are the same, the only differences is color between two models.			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	4 = ausreichend N/A = nicht anwendbar
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory F(ail) = failed a.m. test specification(s)	4 = sufficient N/A = not applicable
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.				

TEST SUMMARY

Report Section	NCC Clause	Test Item	Result
5.1.1	LP0002 3.10.1.3 & 3.10.1.4	Antenna Requirement	Pass
5.1.2	LP0002 3.10.1.2	Peak Output Power	Pass
5.1.3	LP0002 3.10.1.6	20 dB Bandwidth	Pass
5.1.4	LP0002 3.10.1.5	Conducted Spurious Emissions and Band Edges	Pass
5.1.5	LP0002 3.10.1.5	Radiated Spurious Emissions and Band Edges	Pass
5.1.6	LP0002 3.10.1.6	Hopping Channel Separation	Pass
5.1.7	LP0002 3.10.1.6	Number of Hopping Frequency Used	Pass
5.1.8	LP0002 3.10.1.6	Dwell Time on Each Channel	Pass
5.2.1	LP0002 2.3	Mains Conducted Emission	Pass

Note:

1. If the Frequency Hopping Systems operating in 2400-2483.5 MHz band and the output power less than 125 mW. The hopping channel carrier frequencies separated by a minimum of 25 kHz or two-thirds of the 20 dB bandwidth of hopping channel whichever is greater.
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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APPENDIX A - TEST RESULT OF CONDUCTED

**APPENDIX B - TEST RESULT OF RADIATED SPURIOUS EMISSIONS & MAINS CONDUCTED
EMISSION**

APPENDIX SP - PHOTOGRAPHS OF TEST SETUP

APPENDIX EP - PHOTOGRAPHS OF EUT

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HISTORY OF THIS TEST REPORT

Report No.	Description	Date Issued
CN20SO60 (LP0002-BT) 001	Original Release	2020-11-06

1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A - Test Result of Conducted

Appendix B - Test Result of Radiated Spurious Emissions & Mains Conducted Emission

Appendix SP - Photographs of Test Setup

Appendix EP - Photographs of EUT

Applied Standard and Test Levels

Radio
NCC Low-power Radio-frequency Devices Technical Regulations LP0002 (2018) (107 年 1 月 10 日)
ANSI C63.10:2013
KDB 558074 D01 15.247 Meas Guidance v05r02

1.2 Decision Rule of Conformity

The decision rule of conformity of this test report is following the requirements of the requested standard in the quotation, and agreed among testing laboratory and manufacturer (applicant) to exclude the consideration of Measurement Uncertainty, unless it is required by the specific standard.

2. Test Sites

2.1 Test Laboratory

Taipei Testing Laboratories

11F. No.758, Sec. 4, Bade Rd., Songshan Dist.
Taipei City 105
Taiwan (R.O.C.)

2.2 Test Facility

Taipei Testing Laboratories

No.458-18, Sec. 2, Fenliao Rd., Linkou Dist.,
New Taipei City 244
Taiwan (R.O.C.)
FCC Registration No.: 226631
ISED Registration No.: 25563

2.3 Traceability

All measurement equipment calibrations are traceable to NML(Taiwan)/NIST(USA) or where calibration is performed outside Taiwan, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically in a suitably accredited Calibration Lab. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

All measurement uncertainty values are shown with a coverage factor of $k=2$ to indicate a 95% level of confidence.

Emission Measurement Uncertainty

Parameter	Uncertainty
Radiated Emission (9 kHz ~ 30 MHz)	± 1.15 dB
Radiated Emission (30 MHz ~ 200 MHz)	± 1.30 dB
Radiated Emission (200 MHz ~ 1 GHz)	± 1.30 dB
Radiated Emission (1 GHz ~ 18 GHz)	± 1.54 dB
Radiated Emission (18 GHz ~ 40 GHz)	± 2.52 dB
Mains Conducted Emission	± 1.65 dB

3. General Product Information

3.1 Product Function and Intended Use

The EUT is a Penrose Wireless Stereo Headset. It contains a Bluetooth and 2.4GHz compatible module enabling the user to communicate data through a Wireless interface.

For details refer to the User Guide, Data Sheet and Circuit Diagram.

3.2 System Details and Ratings

Basic Information of EUT

Item	EUT information
Kind of Equipment/Test Item	Penrose Wireless Stereo Headset
Type Identification	Penrose P RX, Penrose X RX
Brand Name	AUDEZE

Technical Specification of EUT

Item	EUT information
Operating Frequency	2402 MHz ~ 2480 MHz
Channel Spacing	1 MHz
Channel number	79
Operation Voltage	5 Vdc (USB) 3.7 Vdc (Battery)
Modulation	GFSK, $\pi/4$ -DQPSK, 8DPSK
Maximum Output Power (mW)	3.08
Antenna Information	Refer to 5.1.1
Accessory Device	Refer to 4.4

3.3 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.4 Submitted Documents

- Circuit Diagram
- Instruction Manual
- Rating Label
- Technical Description

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The test modes were adapted accordingly in reference to the instructions for use.

During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output expected by the customer and is going to be fixed on the firmware of the final end product. Bluetooth function and 2.4GHz function will not transmitter at same time.

Table for Parameters of Test Software Setting

Frequency (MHz)	Power Setting		
	GFSK	$\pi/4$ -DQPSK	8DPSK
2402	15	15	15
2441	15	15	15
2480	15	15	15

4.2 Carrier Frequency and Channel

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461		

4.3 Test Operation and Test Software

Setup for testing: Test samples are provided with a USB interface which makes it possible to control them through a test software installed on a notebook computer.

This software was running on the laptop computer connected to the EUT. It was used to enable the operation modes listed as below.

Test Software	AVServe.exe
---------------	-------------

The samples were used as follows:

A002923011-047

A002923011-030

Full test was applied on all test modes, but only worst case was shown.

EUT Configure Mode	Applicable To				Description
	Antenna Port Conducted Measurement	Radiated Spurious Emissions above 1 GHz	Radiated Spurious Emissions below 1 GHz	Mains Conducted Emission	
-	√	√	√	√	-

Note:

- For Radiated emission test, pre-tested GFSK, $\pi/4$ -DQPSK, 8DPSK modulation type and found GFSK was the worse, therefore chosen for the final test and presented in the test report.
- The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when position on **Z-plane**.
- "-" means no effect.

Antenna Port Conducted Measurement:

☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)	Modulation Type	Packet Type
-	2402 to 2480	2402, 2441, 2480	GFSK	1DH5
-	2402 to 2480	2402, 2441, 2480	8DPSK	3DH5

Radiated Spurious Emissions (Above 1 GHz):

☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)	Modulation Type	Packet Type
Tx				
-	2402 to 2480	2402, 2441, 2480	GFSK	1DH5
-	2402 to 2480	2402, 2441, 2480	8DPSK	3DH5
Rx				
-	2402 to 2480	2480	GFSK	3DH5

Radiated Spurious Emissions (Below 1 GHz):

☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)	Modulation Type	Packet Type
Tx / Rx				
-	2402 to 2480	2480	GFSK	1DH5

Mains Conducted Emission Test:

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)	Modulation Type	Packet Type
-	2402 to 2480	2480	GFSK	1DH5

Test Condition

Test Item	Ambient Temperature	Relative Humidity	Tested by
Conducted Measurement	23.6 - 24.3 °C	62.8 - 64.8 %	Stanislas Charles
Radiated Spurious Emissions above 1 GHz	22 °C	55.4 %	Simon Tsai
Radiated Spurious Emissions below 1 GHz	22 °C	55.4 %	Simon Tsai
Mains Conducted Emission	26 °C	65 %	Kay Wu

4.4 Special Accessories and Auxiliary Equipment

The product has been tested together with the following additional accessories:

Accessory of EUT

No.	Product	Brand	Model	Description
-	Penrose Wireless Dongle	AUDEZE	Penrose P TX Penrose X TX	--
A	USB Cable	AUDEZE	Penrose P RX Penrose X RX	300 cm shielded cable w/o core
-	Microphone	AUDEZE	Penrose P RX Penrose X RX	--

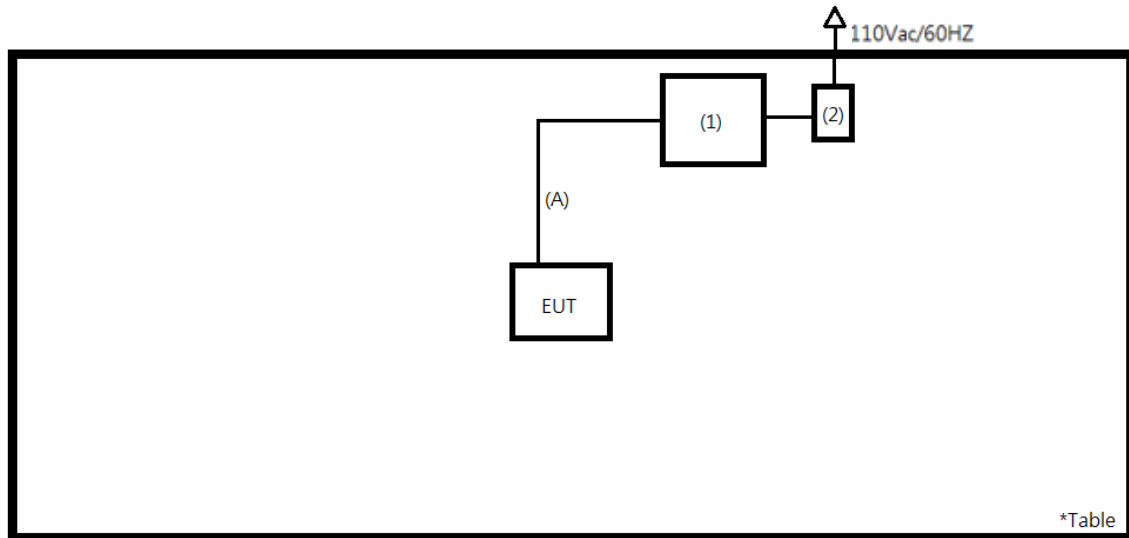
Support Unit

Support Unit					
No.	Description	Brand	Model	S/N	Remark
1	Notebook	HP	15s-du0007TX	CND93662VF	--
2	Adapter	HP	TPN-CA16	N/A	--

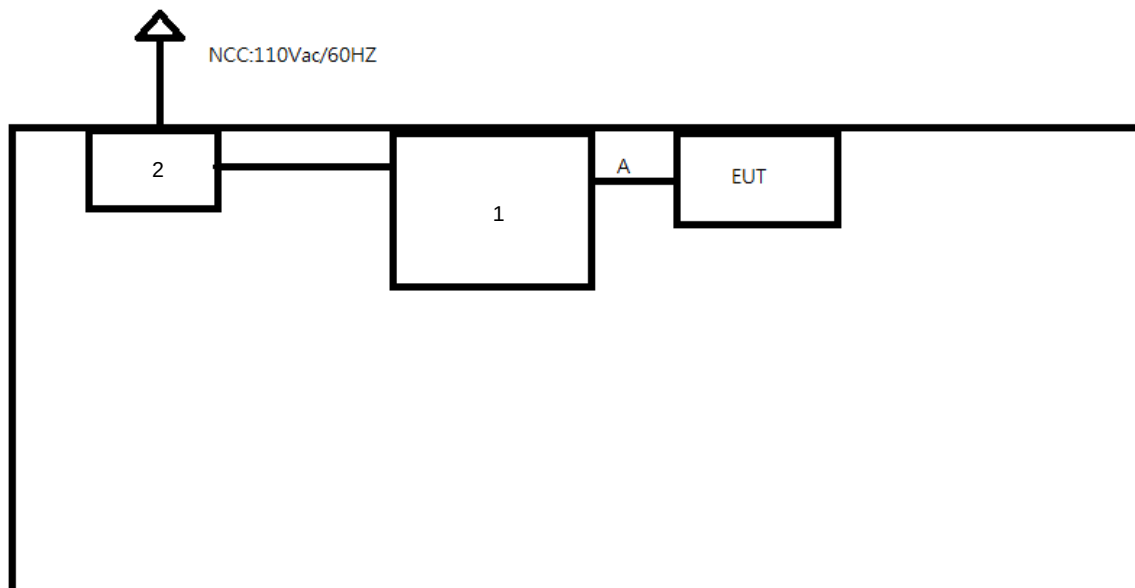
Interface Cable					
No.	Description	Shielded Type	Ferrite Core (Qty)	Length (cm)	Remark
2	Adapter Cable	NO	0	180	--

4.5 Test Setup Diagram

<Radiated Spurious Emissions mode>



<Mains Conducted Emission mode>



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

Requirement Use of approved antennas only

According to the manufacturer declaration, the antenna information is as listed below. The antenna is with no possibility of replacement with a non-approved antenna by the end-user. Therefore, the EUT is considered to comply with this provision.

Brand Name	Model No.	Antenna Type	Antenna Gain (dBi)
Unictron	-	Printed Antenna	3

There are two chip antennas (Ant 1 and Ant 2) use for 2.4GHz function and supports SISO mode only. PIFA (Ant 3) is use for Bluetooth function.
Bluetooth function and 2.4GHz function will not transmitter at same time.

Refer to EUT photo for details.

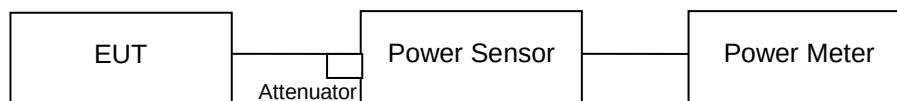
5.1.2 Peak Output Power

Limit

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

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Power Meter	Anritsu	ML2495A	1901008	2020/4/6	2021/4/5
Power Sensor	Anritsu	MA2411B	1725269	2020/4/7	2021/4/6

Test Procedures

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

Average power sensor was used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

Test Result
Peak Output Power
<GFSK>

Channel	Channel Frequency	Peak Output Power		Limit
	(MHz)	(dBm)	(mW)	(mW)
Low Channel	2402	3.04	2.01	125
Middle Channel	2441	2.55	1.80	125
High Channel	2480	2.05	1.60	125

<8DPSK>

Channel	Channel Frequency	Peak Output Power		Limit
	(MHz)	(dBm)	(mW)	(mW)
Low Channel	2402	4.88	3.08	125
Middle Channel	2441	4.11	2.58	125
High Channel	2480	3.67	2.33	125

Average Power
<GFSK>

Channel	Channel Frequency	Average Power	
	(MHz)	(dBm)	(mW)
Low Channel	2402	3.03	2.01
Middle Channel	2441	2.50	1.78
High Channel	2480	2.00	1.58

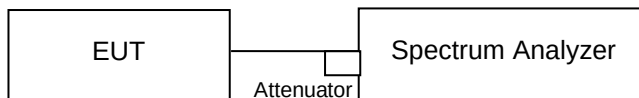
<8DPSK>

Channel	Channel Frequency	Average Power	
	(MHz)	(dBm)	(mW)
Low Channel	2402	2.82	1.91
Middle Channel	2441	2.29	1.69
High Channel	2480	1.83	1.52

5.1.3 20 dB Bandwidth

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV40	101512	2020/2/18	2021/2/16

Test Procedure

- Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
- Repeat above procedures until all frequencies measured were complete.

Test Results

Please refer to Appendix A.

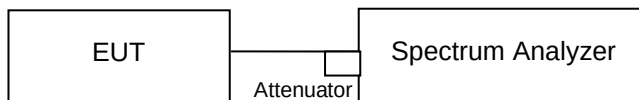
5.1.4 Conducted Spurious Emissions and Frequency Band Edges Measured in 100kHz Bandwidth

Limit

20 dB (below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.)

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV40	101512	2020/2/18	2021/2/16

Test Procedure

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100 kHz and 300 kHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

Test Results

Please refer to Appendix A.

5.1.5 Radiated Spurious Emissions and Band Edges

Limit

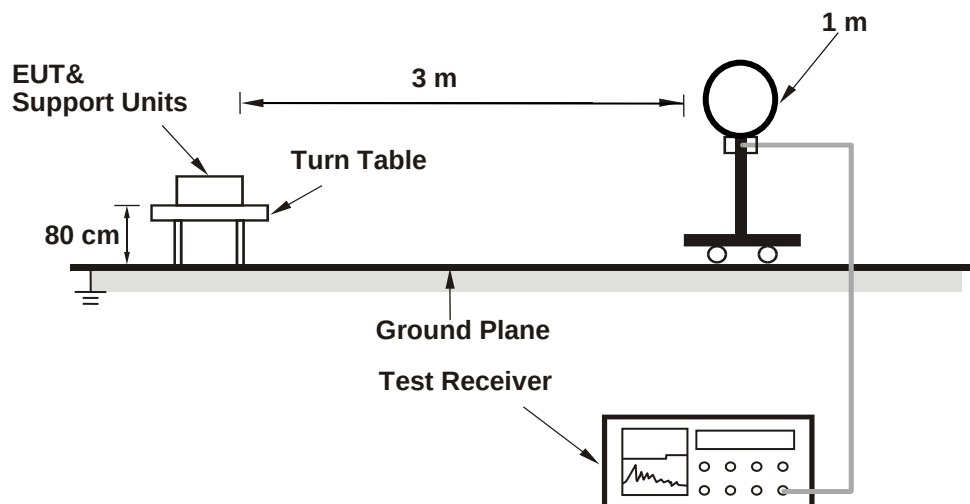
Radiated emissions which fall in the restricted bands, as defined in LP0002 (2018): 2.7, must comply with the radiated emission limits specified in LP0002 (2018): 2.8.

Emissions radiated outside the specified frequency bands must comply with the radiated emission limits specified in LP0002 (2018): 2.8.

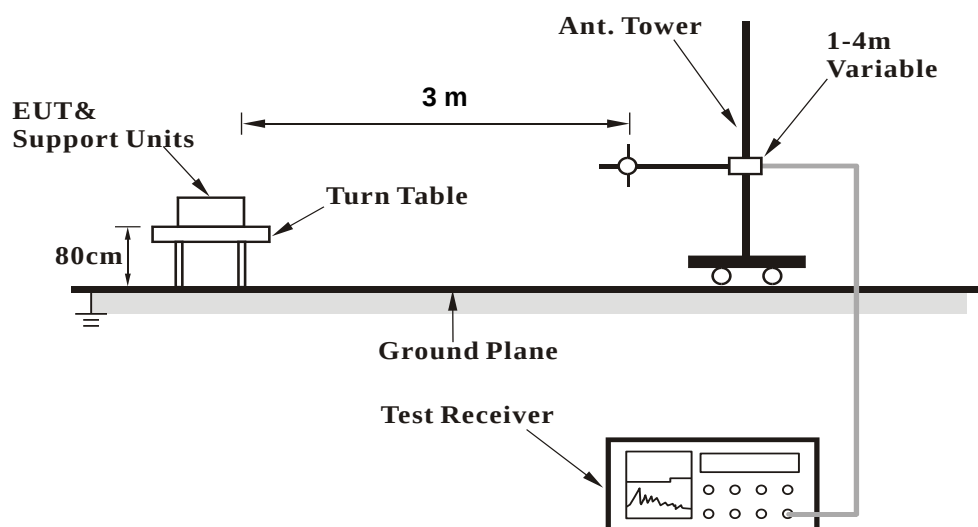
Kind of Test Site 3m Semi-Anechoic Chamber

Test Setup

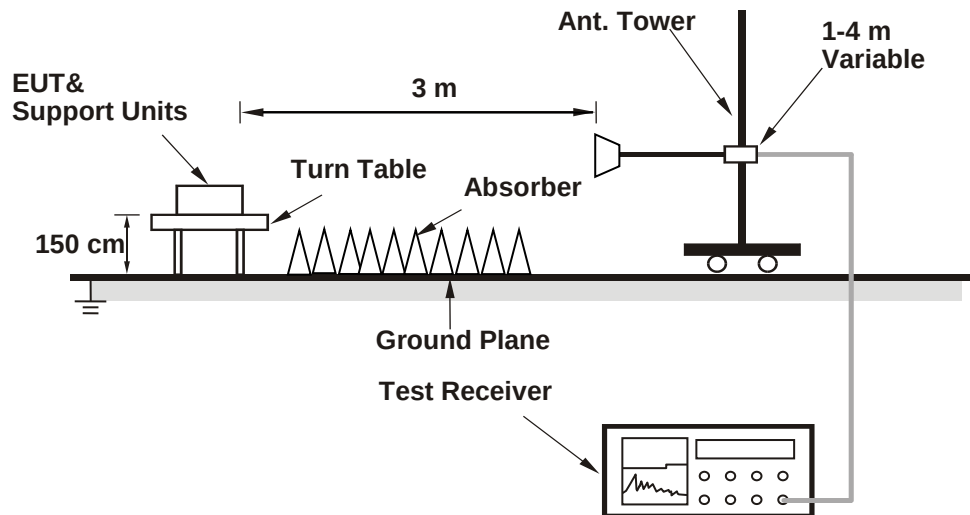
<Radiated Emissions below 30 MHz>



<Radiated Emissions 30 MHz to 1 GHz>



<Radiated Emissions above 1 GHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).

Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV40	101508	2020/3/16	2021/3/15
Receiver	R&S	ESR7	102108	2020/4/22	2021/4/21
Bilog Antenna	SCHWARZBECK	VULB-9168	00951	2020/2/14	2021/2/13
Horn Antenna	ETS-Lindgren	3117	00218930	2019/12/6	2020/12/5
LF-AMP	Agilent	8447D	2944A10772	2020/2/11	2021/2/10
HF-AMP + AC source	EMCI	EMC051845SE	980633	2020/2/17	2021/2/16
HF-AMP + AC source	EMCI	EMC184045SE	980657	2020/2/17	2021/2/16
Horn Antenna	SCHWARZBECK	BBHA 9170	00887	2020/4/10	2021/4/9
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104EA	800056/4EA	2020/3/25	2021/3/24
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	804680/4	2020/3/25	2021/3/24
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	MY37202/4	2020/3/25	2021/3/24
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	800898/2EA	2020/4/22	2021/4/21
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	800901/2EA	2020/4/22	2021/4/21
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	801027/2EA	2020/4/22	2021/4/21
Loop Antenna	Chance Most	EMCILPA600 +calibration	287	2020/1/9	2021/1/8

Test Procedures**For Radiated Emissions below 30 MHz**

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.

For Radiated Emissions above 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10 Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1 GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.
5. The Radiated Emissions testing was performed in the X, Y and Z axis orientation. The worst-case Axis orientation is recorded in this test report.

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Test Results

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)
Level (dBuV/m) = Reading (dBuV) + Factor (dB/m)

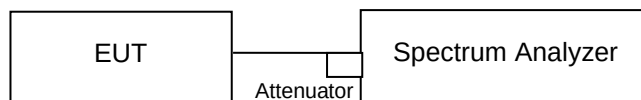
Please refer to Appendix B.

5.1.6 Hopping Channel Separation

Limit ≥ 25 kHz or 2/3 of 20 dB bandwidth, whichever is greater

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV40	101512	2020/2/18	2021/2/16

Test Procedure

Measurement Procedure REF

- Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range.
- By using the MaxHold function record the separation of two adjacent channels.
- Measure the frequency difference of these two adjacent channels by SA MARK function. And then plot the result on SA screen.
- Repeat above procedures until all frequencies measured were complete.

Test Results

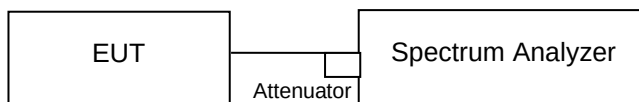
Please refer to Appendix A.

5.1.7 Number of Hopping Frequency

Limit ≥ 15 non-overlapping channels

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV40	101512	2020/2/18	2021/2/16

Test Procedure

- Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- Set the SA on MaxHold Mode, and then keep the EUT in hopping mode. Record all the signals from each channel until each one has been recorded.
- Set the SA on View mode and then plot the result on SA screen.
- Repeat above procedures until all frequencies measured were complete.

Test Results

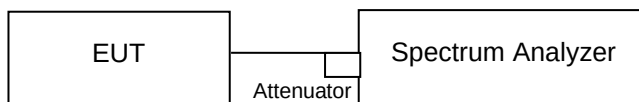
Please refer to Appendix A.

5.1.8 Dwell Time

Limit 0.4s

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV40	101512	2020/2/18	2021/2/16

Test Procedures

- Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- Adjust the center frequency of SA on any frequency be measured and set SA to zero span mode. And then, set RBW and VBW of spectrum analyzer to proper value.
- Measure the time duration of one transmission on the measured frequency. And then plot the result with time difference of this time duration.
- Repeat above procedures until all different time-slot modes have been completed.

Test Results

Please refer to Appendix A.

5.2 Mains Emission

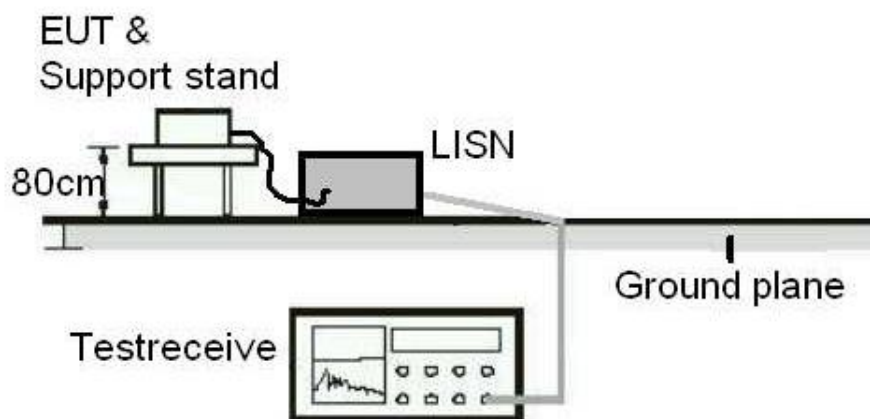
5.2.1 Mains Conducted Emission

Limit

Mains Conducted emission as defined in LP0002 standard must comply with the mains conducted emission limits.

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
EMI Test Receiver	Rohde & Schwarz	ESR 7	102114	2020/04/13	2021/04/13
Two-Line V-Network (for EUT)	Rohde & Schwarz	ENV216	101262	2020/08/04	2021/08/04
Pulse Limiter	Schwarzbeck	VTSD 9561 F-N	00660	2020/02/24	2021/02/24
Test Software	Audix	e3	Ver. 9	N/A	N/A

Test Procedures

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50 uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz – 30 MHz.

Test Results

Please refer to Appendix B.

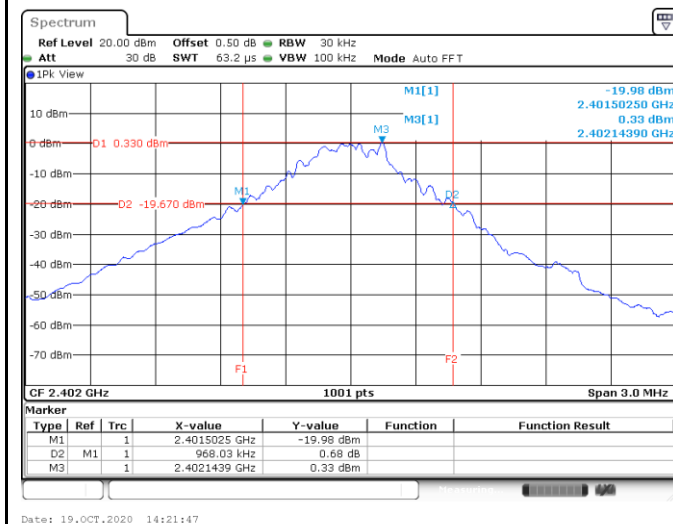
Appendix A: Test Results of Conducted Test

Test Result of 20 dB Bandwidth

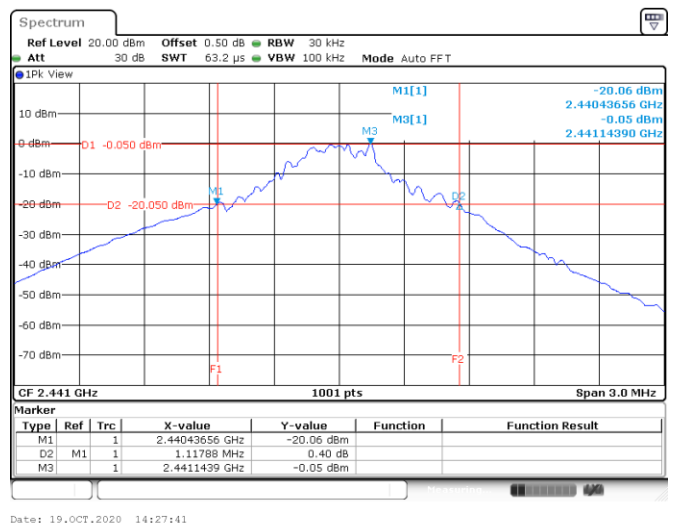
GFSK

Channel	Channel Frequency (MHz)	20 dB Bandwidth (kHz)	Result
Low Channel	2402	968.03	Pass
Middle Channel	2441	1117.88	Pass
High Channel	2480	959.04	Pass

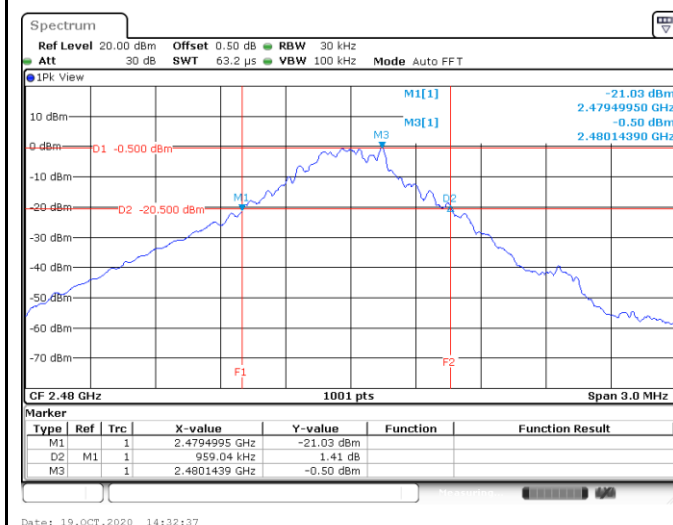
Low Channel



Middle Channel

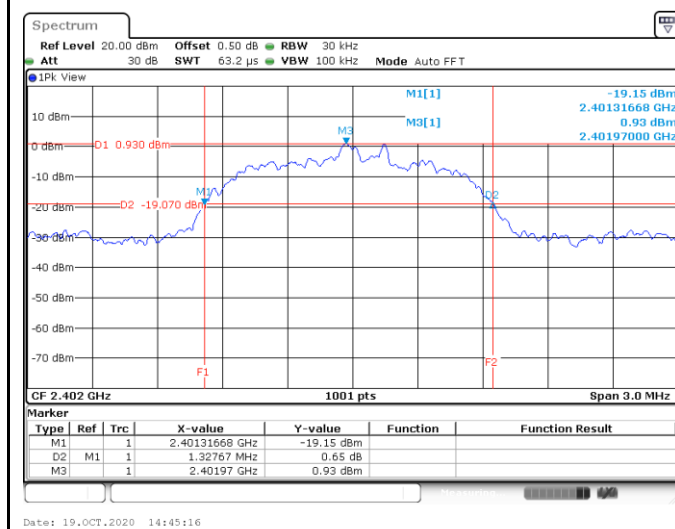
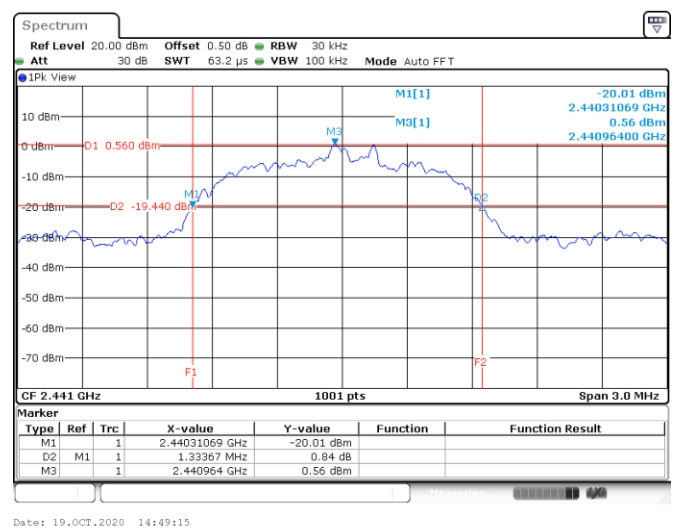
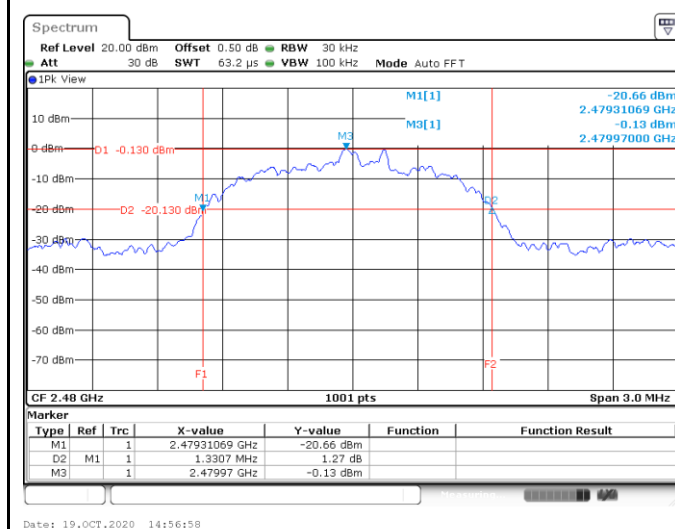


High Channel



8DPSK

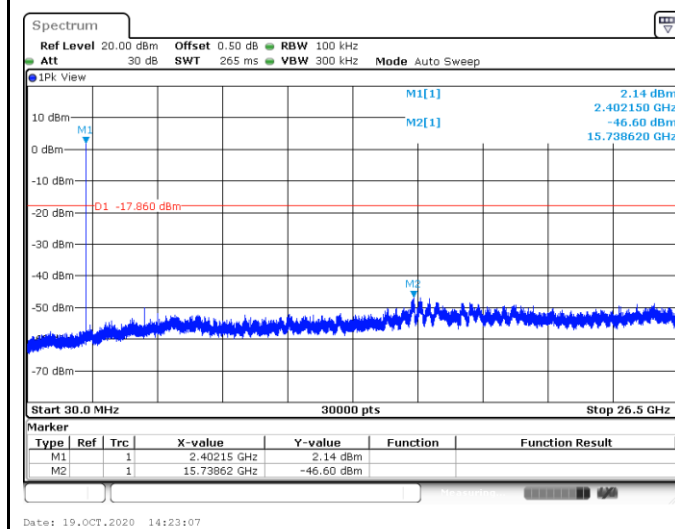
Channel	Channel Frequency (MHz)	20 dB Bandwidth (kHz)	Result
Low Channel	2402	1327.67	Pass
Middle Channel	2441	1333.67	Pass
High Channel	2480	1330.70	Pass

Low Channel

Middle Channel

High Channel


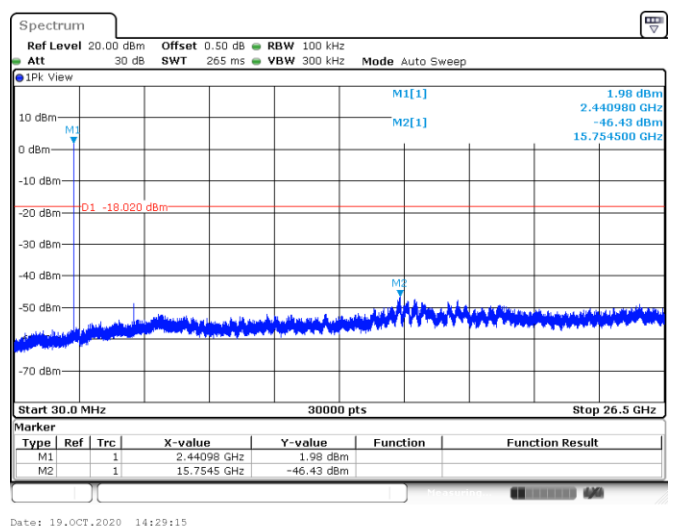
Test Result of Conducted Spurious Emissions, Tx Mode

GFSK

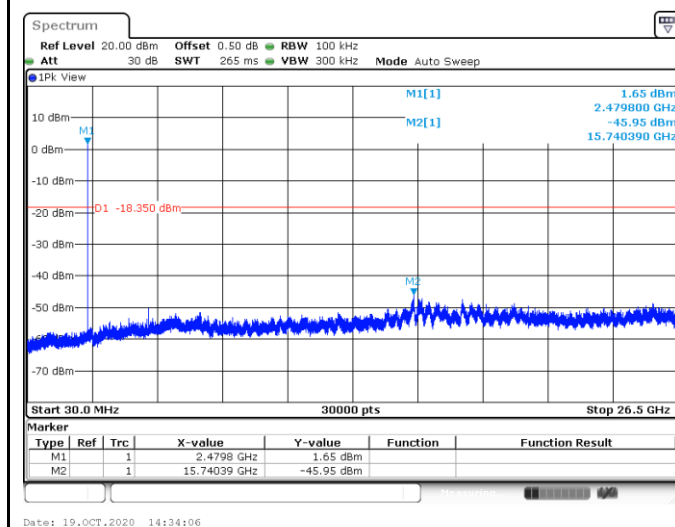
Low Channel



Middle Channel

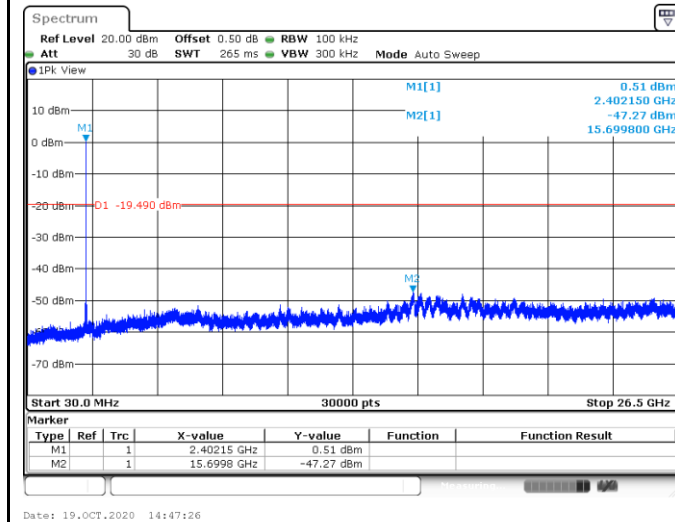


High Channel

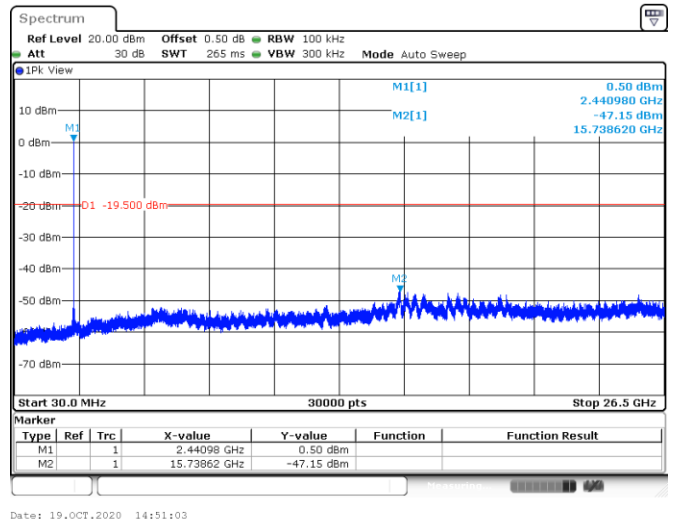


8DPSK

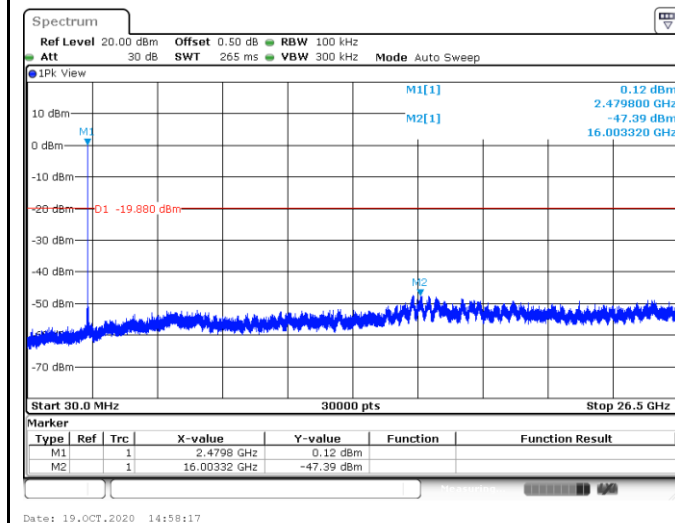
Low Channel



Middle Channel

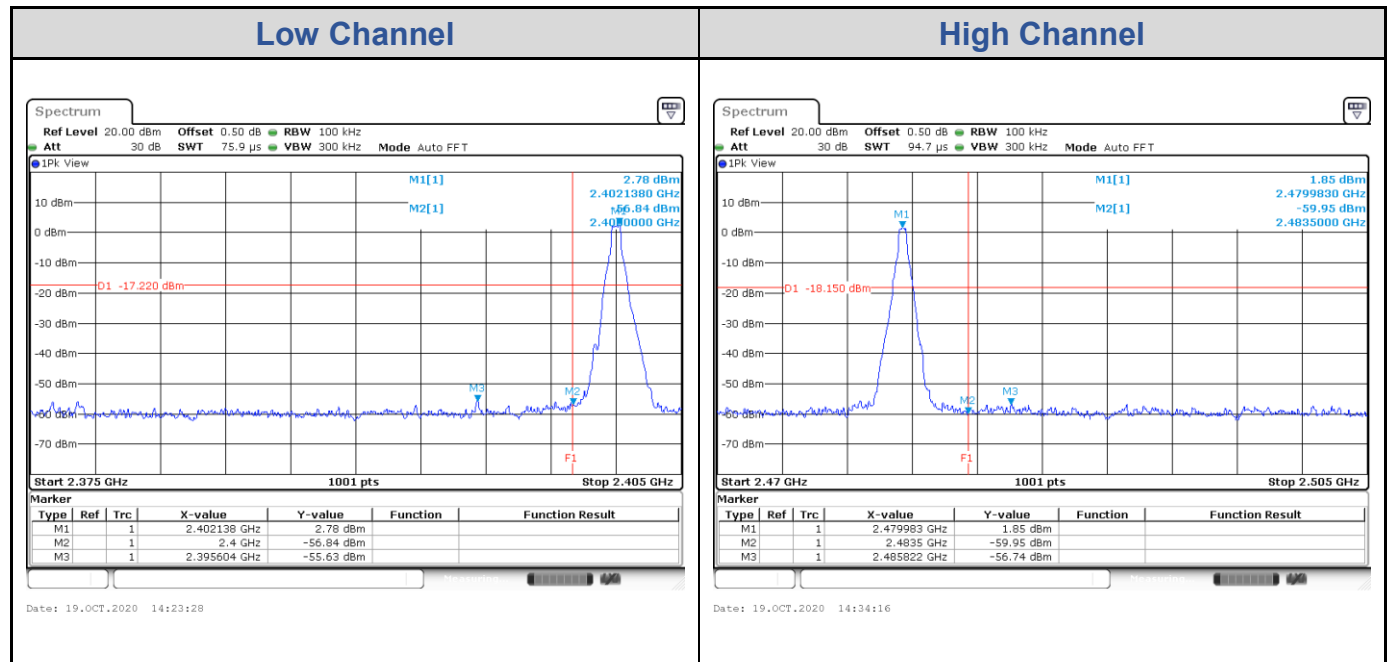


High Channel

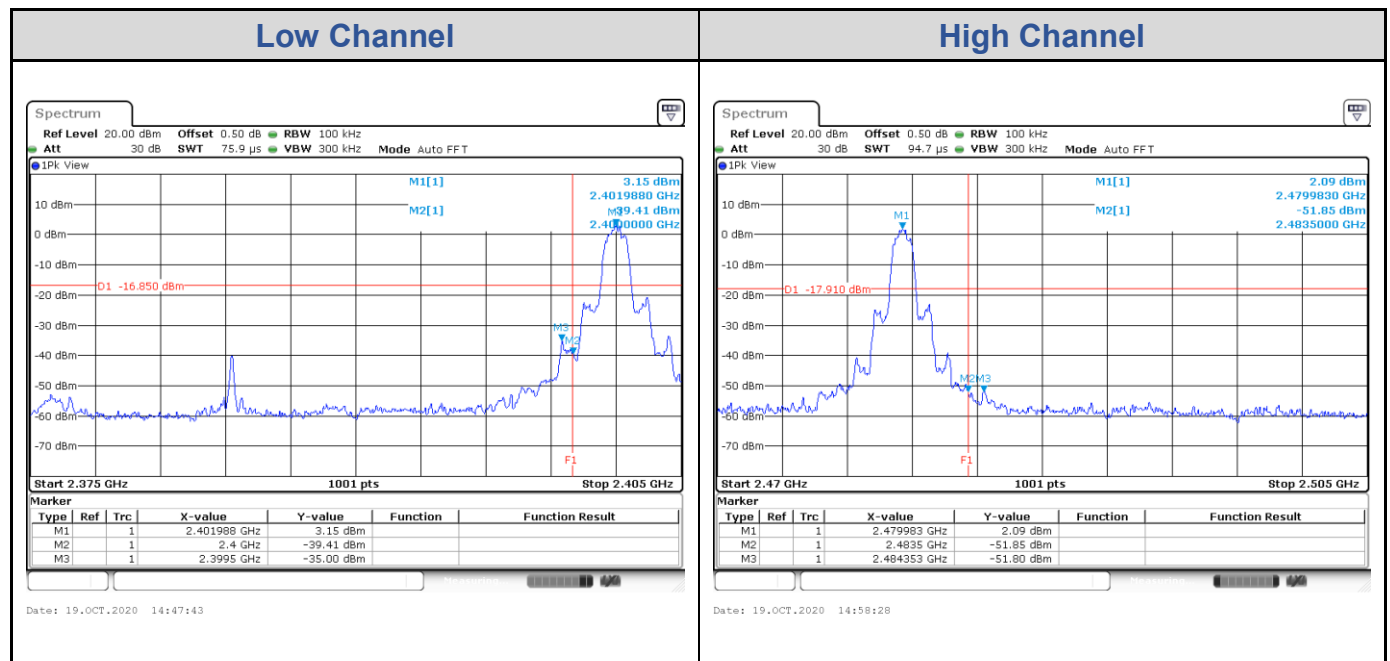


Test Result of Conducted Band Edge, Tx Mode

GFSK

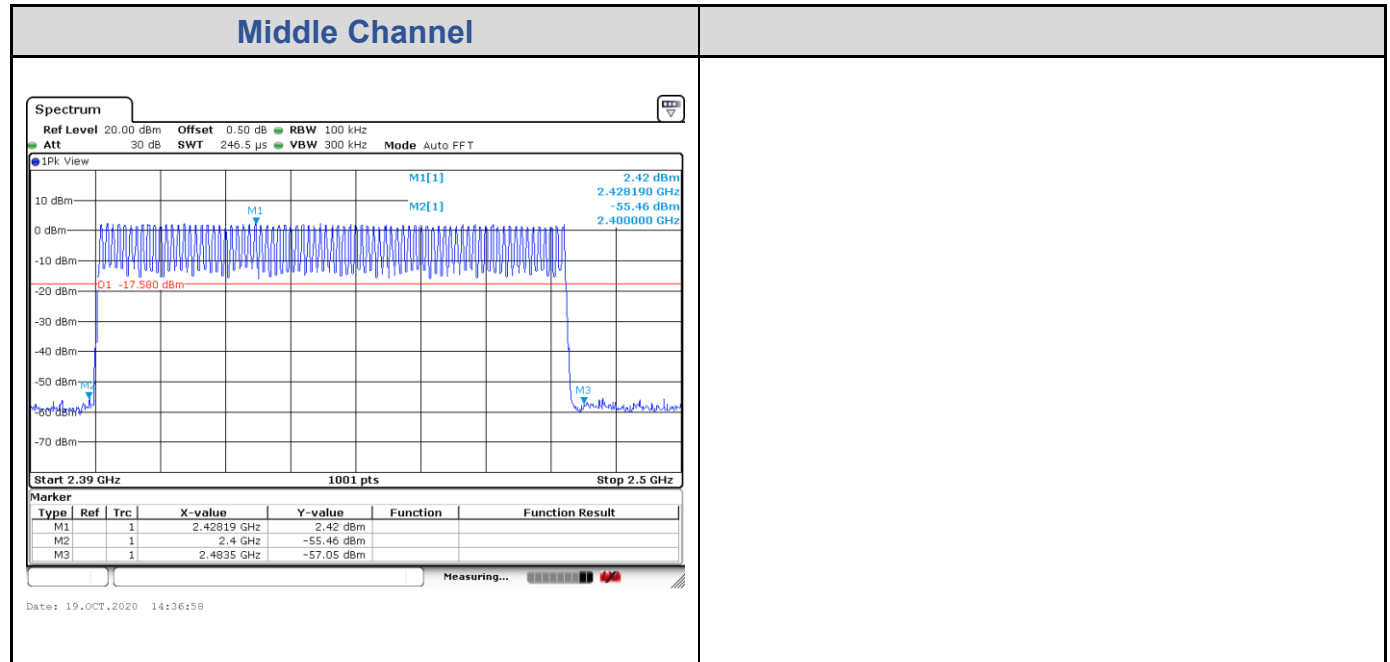


8DPSK

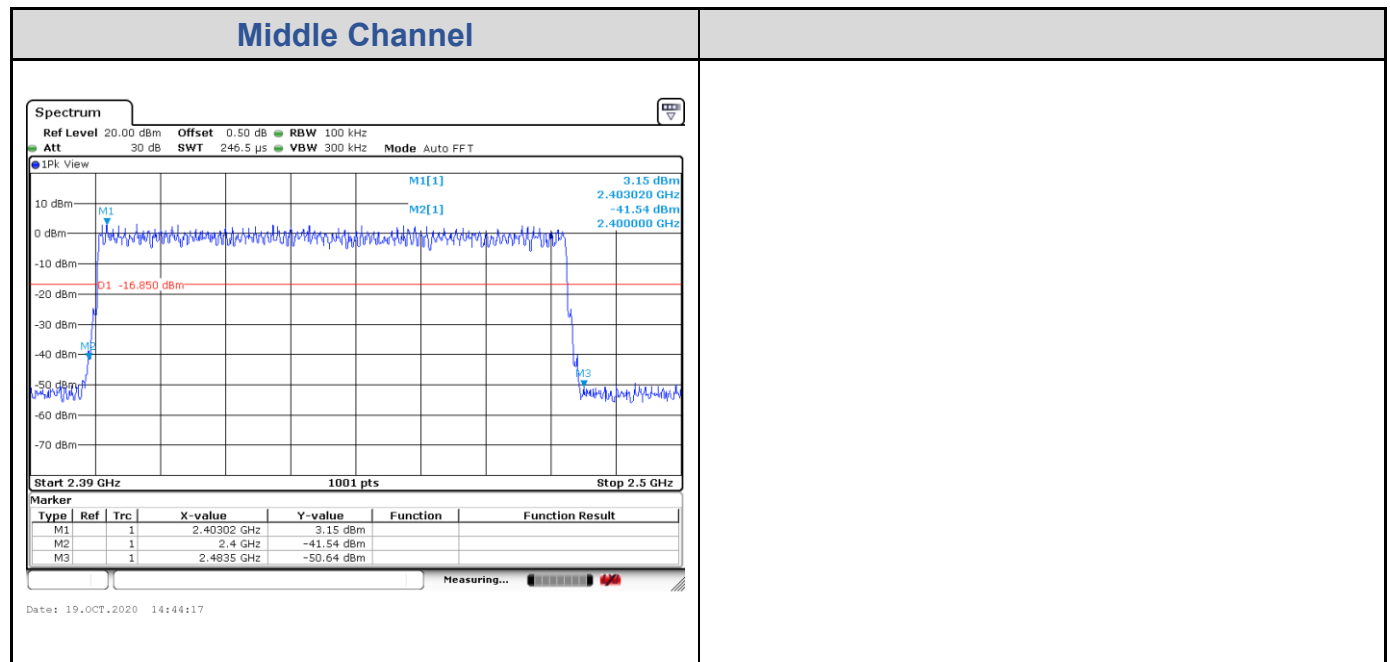


Test Result of Hopping Band Edge

GFSK



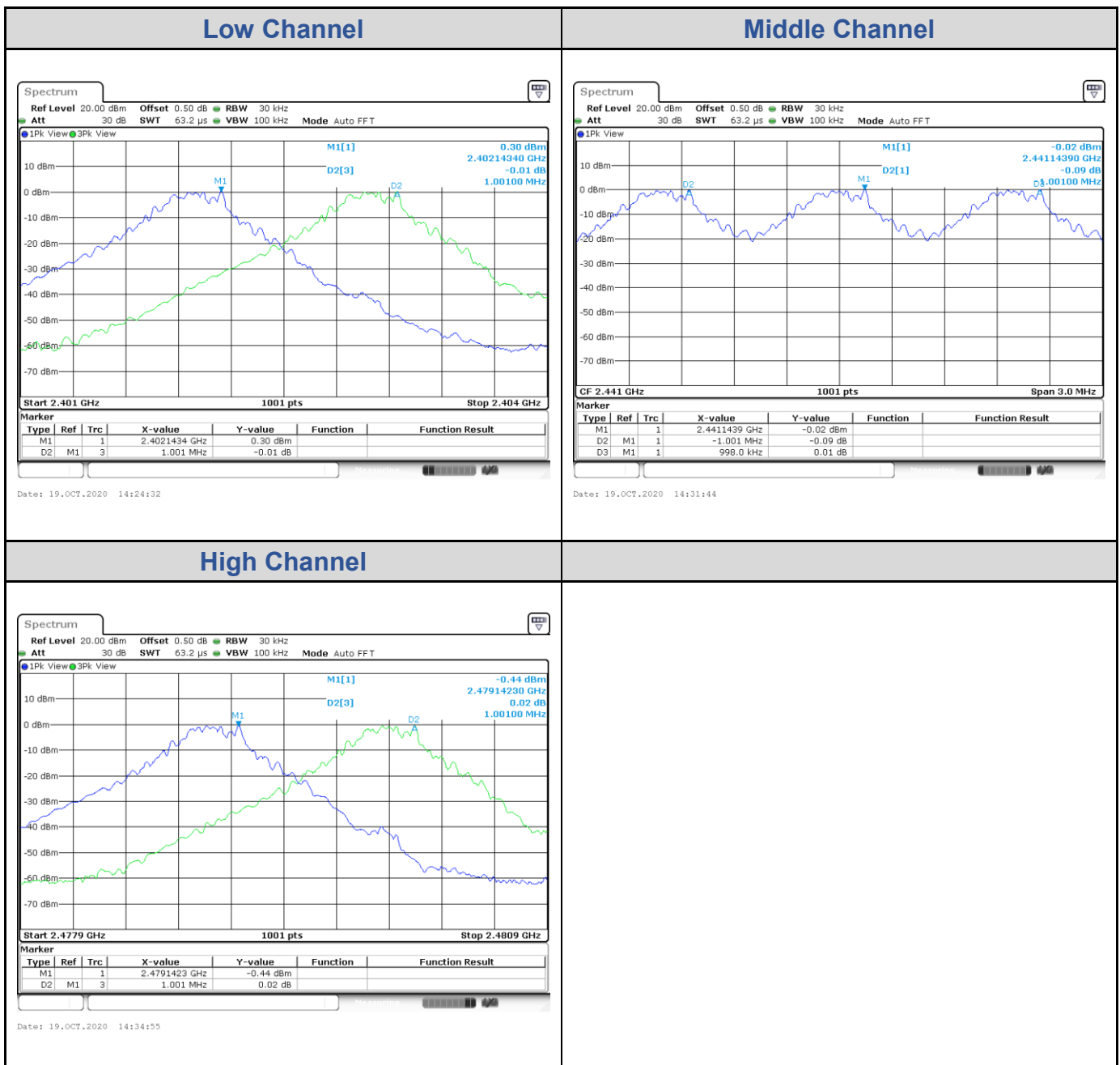
8DPSK



Test Result of Hopping Channel Separation

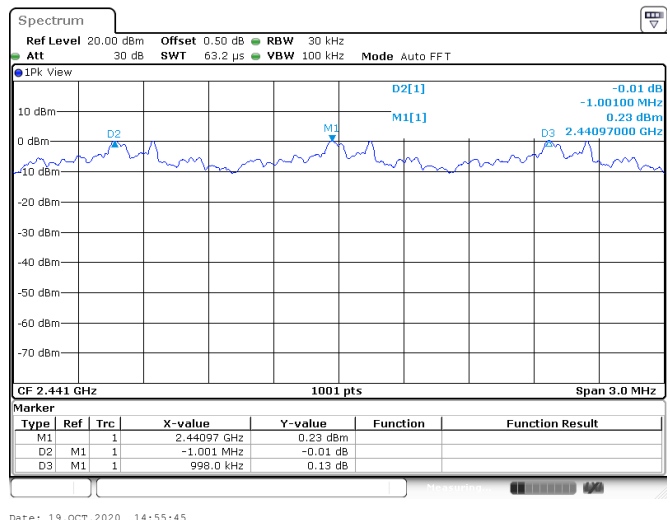
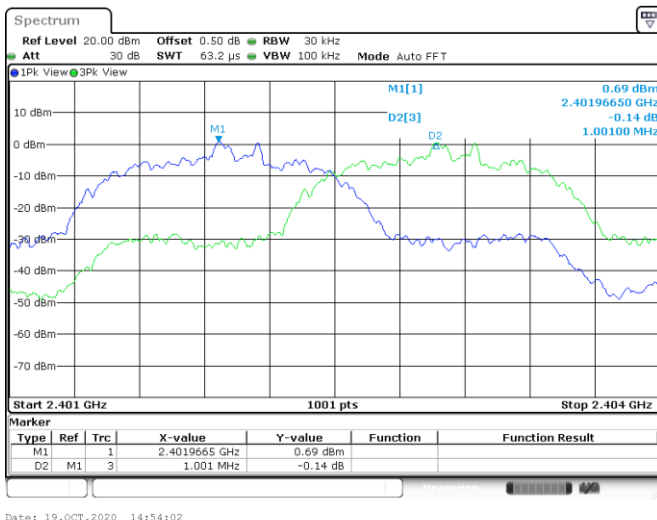
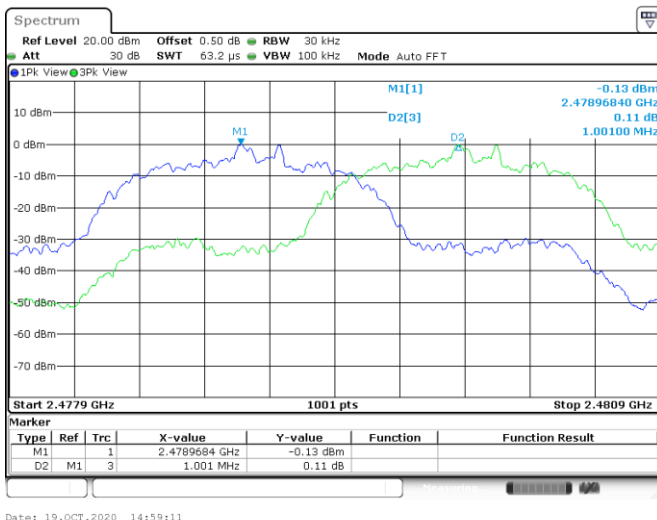
GFSK

Channel	Channel Frequency (MHz)	Adjacent Channel Separation (MHz)	20 dB Bandwidth (kHz)	Minimum Limit (MHz)	Result
0	2402	1.00	968.03	0.645	Pass
39	2441	1.00	1117.88	0.745	Pass
78	2480	1.00	959.04	0.639	Pass



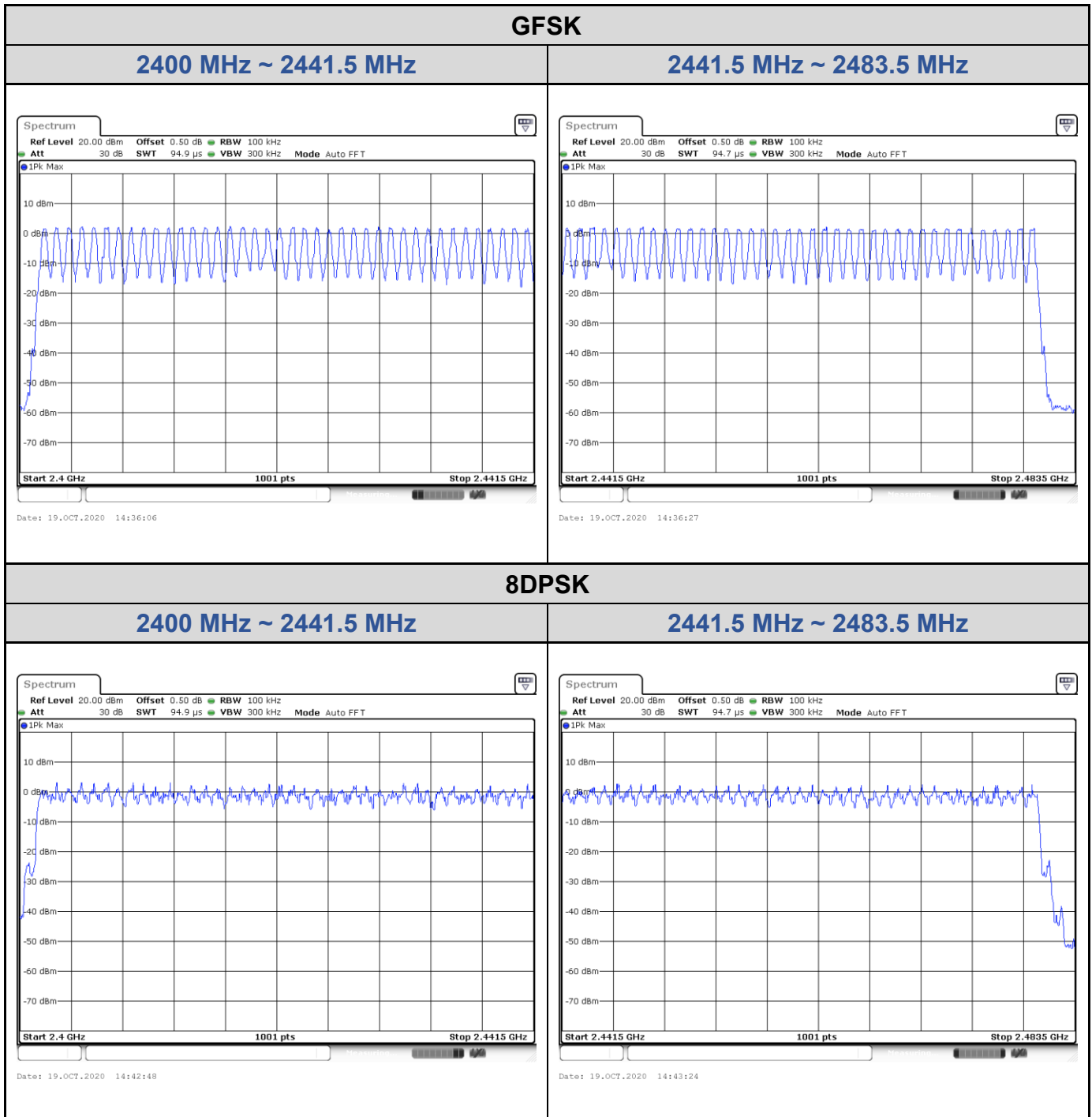
8DPSK

Channel	Channel Frequency (MHz)	Adjacent Channel Separation (MHz)	20 dB Bandwidth (kHz)	Minimum Limit (MHz)	Result
0	2402	1.00	1327.67	0.885	Pass
39	2441	1.00	1333.67	0.889	Pass
78	2480	1.00	1330.70	0.887	Pass

Low Channel
Middle Channel

High Channel


Test Result of Number of Hopping Frequency

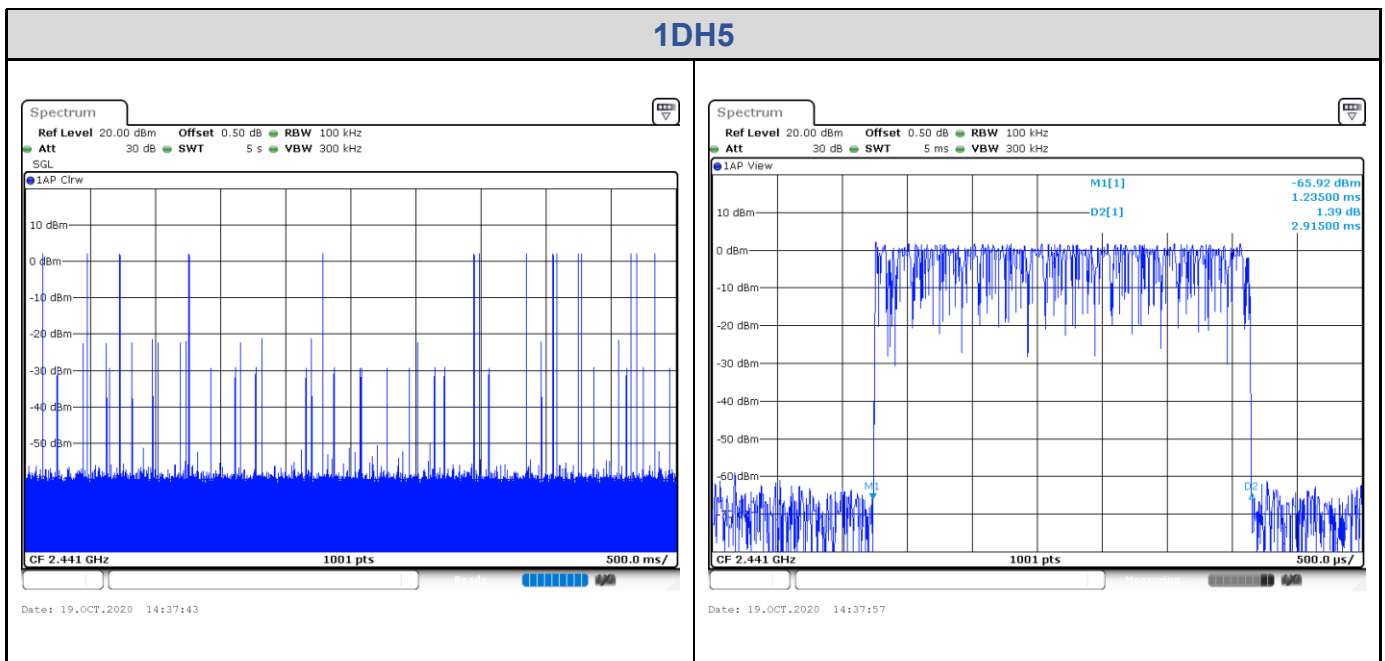
Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
2400 to 2483.5 MHz	79	≥15	Pass



Test Result of Dwell Time

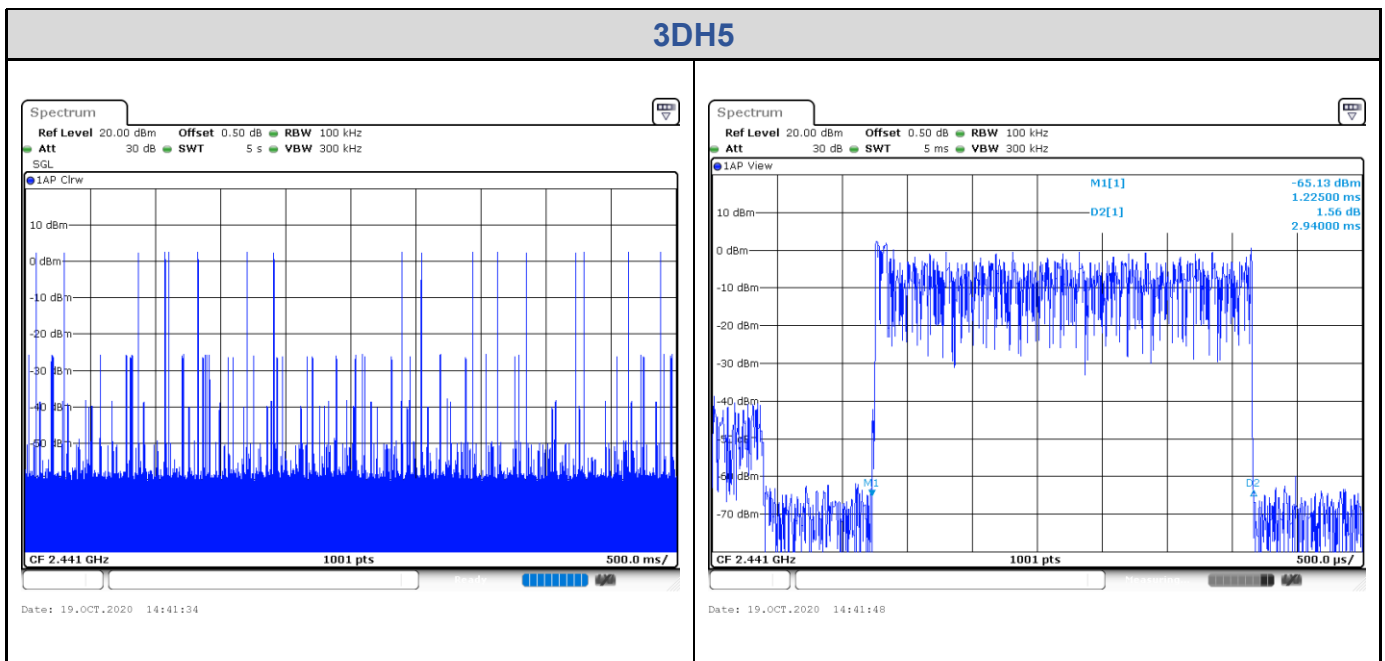
GFSK

Data Mode	Number of transfer in a 31.6 (79Hopping*0.4s)	Package transfer time (msec)	Dwell time (s)	Limit (s)	Result
1DH5	15 (times / 5 sec) * 6.32 = 94.8 times	2.915	0.276	0.4	Pass



8DPSK

Data Mode	Number of transfer in a 31.6 (79Hopping*0.4s)	Package transfer time (msec)	Dwell time (s)	Limit (s)	Result
3DH5	17 (times / 5 sec) * 6.32 = 107.44 times	2.94	0.316	0.4	Pass



Appendix B: Test Results of Radiated Emissions & Mains Conducted Emission Test

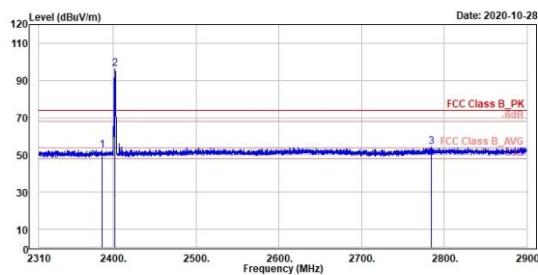
Band Edges, 2.31GHz ~ 2.9GHz

GFSK

Low Channel (Horizontal) Peak



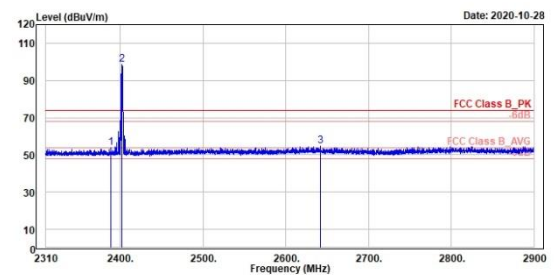
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2386.00	52.59	15.27	37.32	74.00	-21.41	131	226	Peak	Horizontal	
2 *	2482.00	96.10	58.73	37.37	74.00	22.10	131	226	Peak	Horizontal	
3	2785.04	54.21	16.32	37.89	74.00	-19.79	131	226	Peak	Horizontal	



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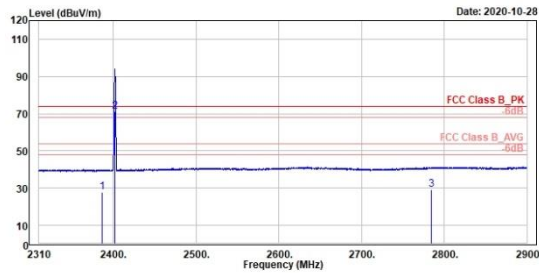
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2388.57	54.01	16.68	37.33	74.00	-19.99	373	212	Peak	Vertical	
2 *	2482.00	98.70	61.33	37.37	74.00	24.70	373	212	Peak	Vertical	
3	2641.93	54.65	16.78	37.87	74.00	-19.35	373	212	Peak	Vertical	

GFSK

Low Channel (Horizontal) Average



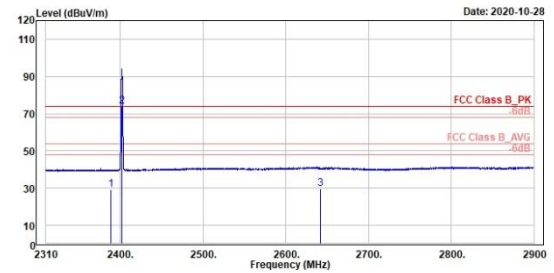
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2386.00	27.79	-9.53	37.32	54.00	-26.21	131	226	Average	Horizontal	DF
2 *	2482.00	71.30	33.93	37.37	54.00	17.30	131	226	Average	Horizontal	DF
3	2785.04	29.41	-8.48	37.89	54.00	-24.59	131	226	Average	Horizontal	DF



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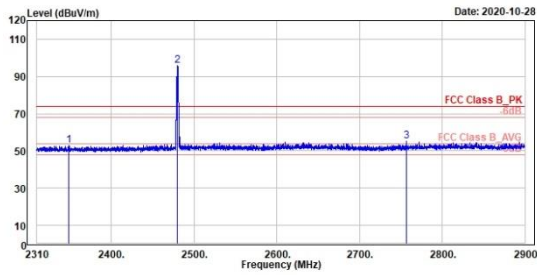
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2388.57	29.21	-8.12	37.33	54.00	-24.79	373	212	Average	Vertical	DF
2 *	2482.00	73.90	36.53	37.37	54.00	19.90	373	212	Average	Vertical	DF
3	2641.93	29.85	-8.02	37.87	54.00	-24.15	373	212	Average	Vertical	DF

GFSK

High Channel (Horizontal) Peak



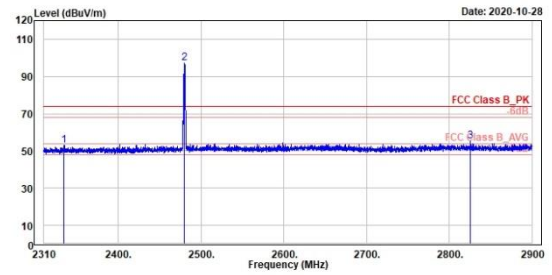
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	2348.52	52.77	15.57	37.20	74.00	-21.23	267	268	Peak	Horizontal	
2 *	2480.00	95.74	58.18	37.56	74.00	21.74	267	268	Peak	Horizontal	
3	2756.77	55.06	17.20	37.86	74.00	-18.94	267	268	Peak	Horizontal	



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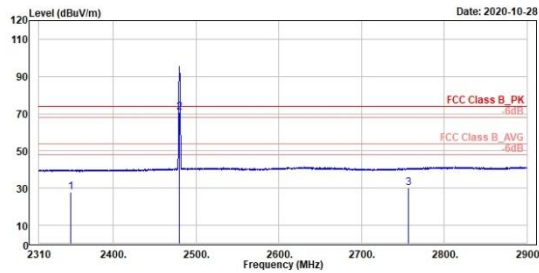
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	2333.79	52.91	15.75	37.16	74.00	-21.09	313	0	Peak	Vertical	
2 *	2480.00	97.21	59.65	37.56	74.00	23.21	313	0	Peak	Vertical	
3	2825.44	55.11	17.12	37.99	74.00	-18.89	313	0	Peak	Vertical	

GFSK

High Channel (Horizontal) Average



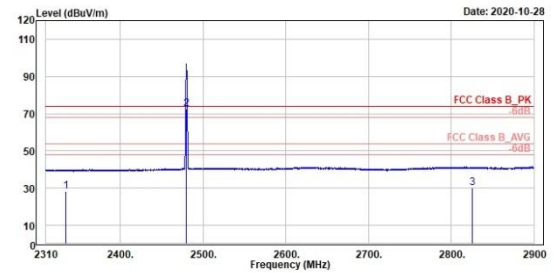
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2348.52	27.97	-9.23	37.20	54.00	-26.03	267	268	Average	Horizontal	DF
2 *	2480.00	70.75	33.19	37.56	54.00	16.75	267	268	Average	Horizontal	DF
3	2756.77	30.26	-7.60	37.86	54.00	-23.74	267	268	Average	Horizontal	DF

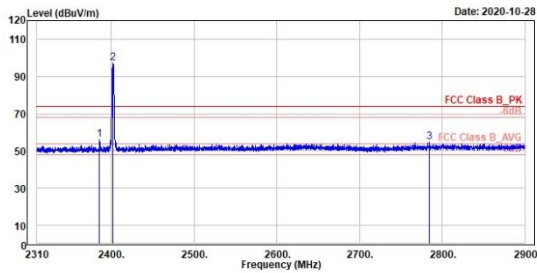


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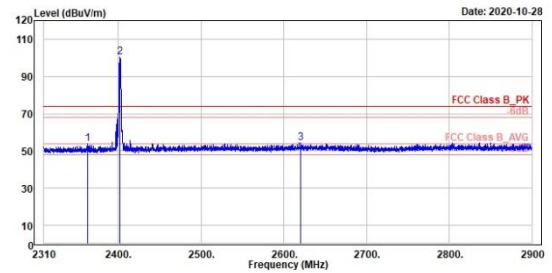


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2333.79	28.10	-9.06	37.16	54.00	-25.90	313	0	Average	Vertical	DF
2 *	2480.00	72.41	34.85	37.56	54.00	18.41	313	0	Average	Vertical	DF
3	2825.44	30.31	-7.68	37.99	54.00	-23.69	313	0	Average	Vertical	DF

8DPSK
Low Channel (Horizontal) Peak

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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2385.74	56.18	18.86	37.32	74.00	-17.82	133	219	Peak	Horizontal	
2 *	2402.00	97.36	59.99	37.37	74.00	23.36	133	219	Peak	Horizontal	
3	2784.80	54.58	16.69	37.89	74.00	-19.42	133	219	Peak	Horizontal	


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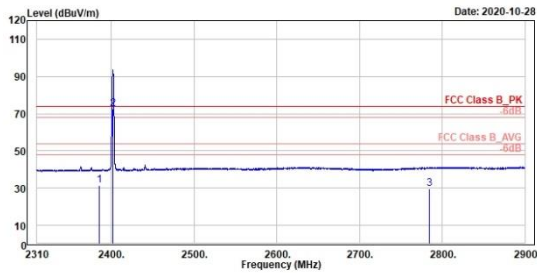
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2363.01	53.67	16.42	37.25	74.00	-20.33	323	191	Peak	Vertical	
2 *	2402.00	100.54	63.17	37.37	74.00	26.54	323	191	Peak	Vertical	
3	2620.61	54.21	16.28	37.93	74.00	-19.79	323	191	Peak	Vertical	

8DPSK

Low Channel (Horizontal) Average



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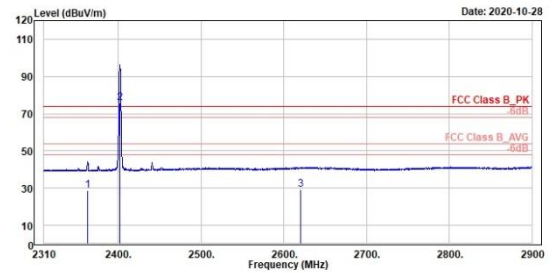


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2385.74	31.38	-5.94	37.32	54.00	-22.62	133	219	Average	Horizontal	DF
2 *	2402.00	72.56	35.19	37.37	54.00	18.56	133	219	Average	Horizontal	DF
3	2784.80	29.78	-8.11	37.89	54.00	-24.22	133	219	Average	Horizontal	DF

Low Channel (Vertical) Average



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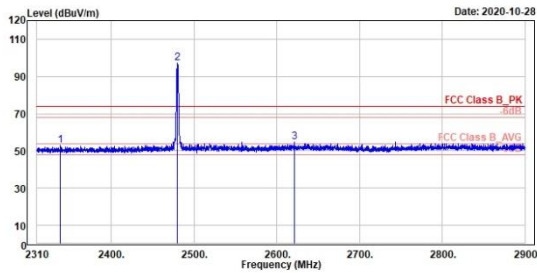
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2363.01	28.87	-8.38	37.25	54.00	-25.13	323	191	Average	Vertical	DF
2 *	2402.00	75.74	38.37	37.37	54.00	21.74	323	191	Average	Vertical	DF
3	2620.61	29.41	-8.52	37.93	54.00	-24.59	323	191	Average	Vertical	DF

8DPSK

High Channel (Horizontal) Peak



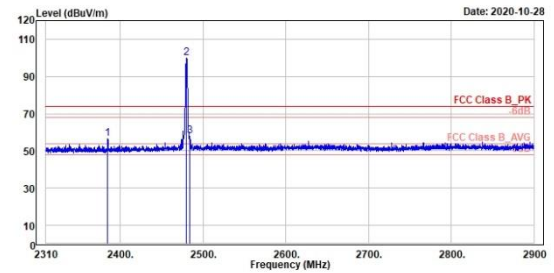
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	2338.27	52.81	15.64	37.17	74.00	-21.19	267	267	Peak	Horizontal	
2 *	2480.00	97.05	59.49	37.56	74.00	23.05	267	267	Peak	Horizontal	
3	2621.31	54.81	16.89	37.92	74.00	-19.19	267	267	Peak	Horizontal	



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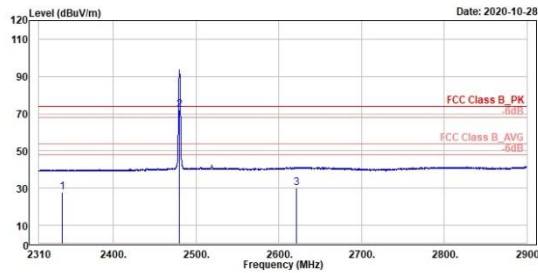
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	2384.00	56.60	19.28	37.32	74.00	-17.40	342	209	Peak	Vertical	
2 *	2480.00	99.83	62.27	37.56	74.00	25.83	342	209	Peak	Vertical	
3	2483.74	57.86	20.30	37.56	74.00	-16.14	342	209	Peak	Vertical	

8DPSK

High Channel (Horizontal) Average



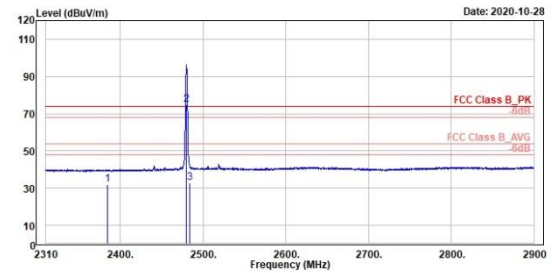
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	2338.27	28.01	-9.16	37.17	54.00	-25.99	267	267	Average	Horizontal	DF
2 *	2480.00	72.25	34.69	37.56	54.00	18.25	267	267	Average	Horizontal	DF
3	2621.31	29.99	-7.93	37.92	54.00	-24.01	267	267	Average	Horizontal	DF



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	2384.00	31.00	-5.52	37.32	54.00	-22.20	342	209	Average	Vertical	DF
2 *	2480.00	75.03	37.47	37.56	54.00	21.03	342	209	Average	Vertical	DF
3	2483.74	33.06	-4.50	37.56	54.00	-20.94	342	209	Average	Vertical	DF

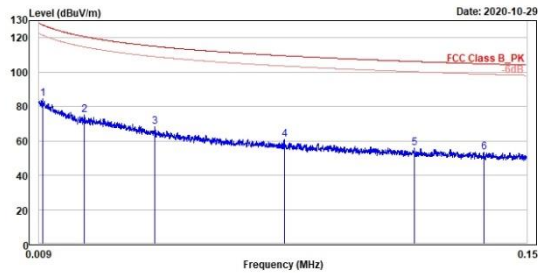
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

GFSK

High Channel(Open) 9kHz~150kHz



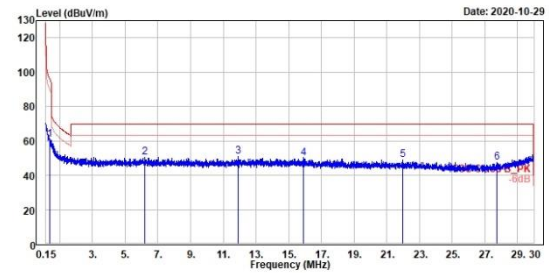
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.01	84.52	5.70	78.82	127.56	-43.04	100	14	QP	Open	
2	0.02	75.10	2.94	72.16	120.71	-45.61	100	66	QP	Open	
3	0.04	68.20	1.28	66.92	115.02	-46.82	100	322	QP	Open	
4	0.08	60.81	-0.45	61.26	109.54	-48.73	100	271	QP	Open	
5	0.12	55.62	-2.62	58.24	106.20	-50.58	100	0	QP	Open	
6	0.14	53.59	-3.48	57.07	104.83	-51.24	100	173	QP	Open	



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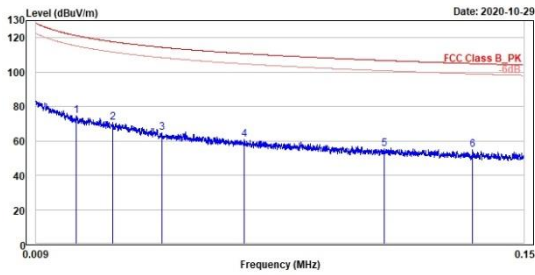
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.40	60.60	12.29	48.31	95.48	-34.88	100	96	QP	Open	
2	6.19	50.53	12.18	38.35	69.50	-18.97	100	353	QP	Open	
3	11.91	50.69	13.40	37.29	69.50	-18.81	100	249	QP	Open	
4	15.92	50.12	12.57	37.55	69.50	-19.38	100	240	QP	Open	
5	21.96	49.02	13.14	35.88	69.50	-20.48	100	346	QP	Open	
6	27.77	47.33	12.41	34.92	69.50	-22.17	100	122	QP	Open	

GFSK

High Channel(Close) 9kHz~150kHz



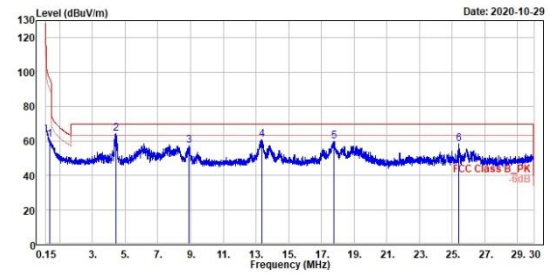
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.02	74.65	2.22	72.43	121.30	-46.65	100	168 QP	Close		
2	0.03	70.66	0.28	70.38	117.72	-47.06	100	2 QP	Close		
3	0.05	64.73	-1.45	66.18	114.44	-49.71	100	72 QP	Close		
4	0.07	60.69	-1.75	62.44	110.78	-50.09	100	208 QP	Close		
5	0.11	55.33	-3.36	58.69	106.79	-51.46	100	172 QP	Close		
6	0.14	54.73	-2.48	57.21	104.98	-50.25	100	191 QP	Close		



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.38	60.64	11.06	48.78	96.01	-35.37	100	251 QP	Close		
2	4.41	64.07	25.74	38.33	69.50	-5.43	100	32 QP	Close		
3	8.92	57.57	19.77	37.80	69.50	-11.93	100	166 QP	Close		
4	13.37	60.89	23.41	37.48	69.50	-8.61	100	348 QP	Close		
5	17.79	59.98	23.08	36.90	69.50	-9.52	100	14 QP	Close		
6	25.42	58.41	24.29	34.12	69.50	-11.09	100	100 QP	Close		

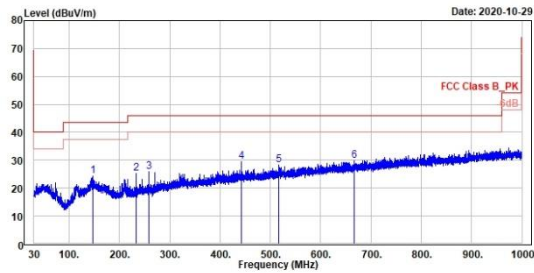
Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

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High Channel (Horizontal)



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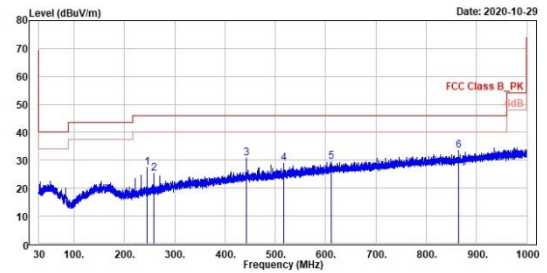


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	147.47	24.30	31.95	-7.65	43.50	-19.20	200	106	QP	Horizontal		
2	233.51	25.19	33.82	-8.63	46.00	-20.81	100	295	QP	Horizontal		
3	258.05	25.80	33.69	-7.89	46.00	-20.20	100	68	QP	Horizontal		
4	442.35	29.44	33.31	-3.87	46.00	-16.56	100	71	QP	Horizontal		
5	516.16	28.15	31.00	-2.85	46.00	-17.85	200	273	QP	Horizontal		
6	666.13	29.82	30.32	-0.50	46.00	-16.18	300	253	QP	Horizontal		

High Channel (Vertical)



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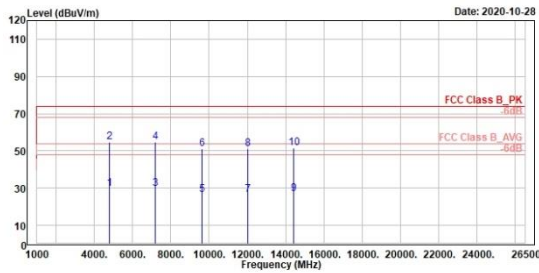


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	245.83	27.28	35.42	-8.14	46.00	-18.72	200	1	QP	Horizontal		
2	258.05	25.37	33.26	-7.89	46.00	-20.63	200	0	QP	Horizontal		
3	442.44	30.63	34.50	-3.87	46.00	-15.37	100	257	QP	Horizontal		
4	516.07	28.92	31.78	-2.86	46.00	-17.08	100	90	QP	Horizontal		
5	618.64	29.44	30.42	-0.98	46.00	-16.56	100	361	QP	Horizontal		
6	863.52	33.34	30.77	2.57	46.00	-12.66	300	139	QP	Horizontal		

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

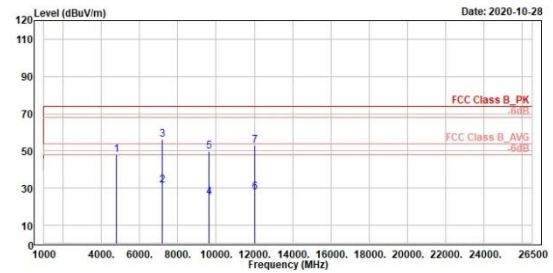
GFSK

Low Channel (Horizontal)



Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4894.00	29.83	48.83	-10.20	54.00	-24.17	364	385	Average	Horizontal	DF
2	4894.00	54.63	64.83	-10.20	74.00	-19.37	364	385	Peak	Horizontal	
3	7206.00	29.87	37.52	-7.65	54.00	-24.13	100	385	Average	Horizontal	DF
4	7206.00	54.68	62.33	-7.65	74.00	-19.32	100	385	Peak	Horizontal	
5	9608.00	26.30	31.59	-5.29	54.00	-27.70	110	282	Average	Horizontal	DF
6	9608.00	51.18	56.39	-5.29	74.00	-22.90	110	282	Peak	Horizontal	
7	12010.00	26.47	27.24	-0.77	54.00	-27.53	395	196	Average	Horizontal	DF
8	12010.00	51.27	52.04	-0.77	74.00	-22.73	395	196	Peak	Horizontal	
9	14412.00	26.79	24.95	1.84	54.00	-27.21	400	244	Average	Horizontal	DF
10	14412.00	51.59	49.75	1.84	74.00	-22.41	400	244	Peak	Horizontal	

Low Channel (Vertical)



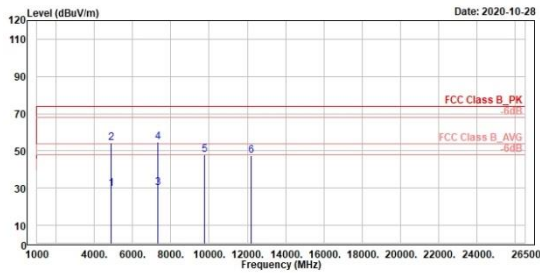
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4894.00	47.71	57.91	-10.20	74.00	-26.29	180	190	Peak	Vertical	
2	7206.00	31.45	39.10	-7.65	54.00	-22.55	189	299	Average	Vertical	DF
3	7206.00	56.25	63.90	-7.65	74.00	-17.75	189	299	Peak	Vertical	
4	9608.00	25.15	30.44	-5.29	54.00	-28.85	103	309	Average	Vertical	DF
5	9608.00	49.95	55.24	-5.29	74.00	-24.05	103	309	Peak	Vertical	
6	12010.00	28.05	28.82	-0.77	54.00	-25.95	300	238	Average	Vertical	DF
7	12010.00	52.85	53.62	-0.77	74.00	-21.15	300	238	Peak	Vertical	

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Middle Channel (Horizontal)



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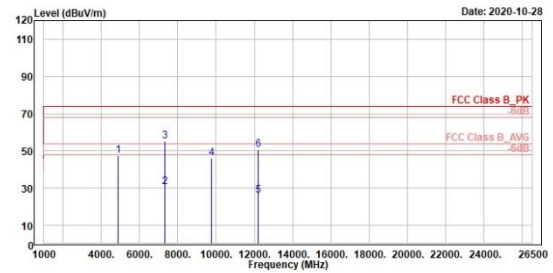


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4882.00	29.70	39.76	-10.06	54.00	-24.30	100	387	Average	Horizontal	DF	
2	4882.00	54.50	64.56	-10.06	74.00	-19.50	100	387	Peak	Horizontal		
3	7323.00	29.90	37.69	-7.79	54.00	-24.10	311	263	Average	Horizontal	DF	
4	7323.00	54.70	62.49	-7.79	74.00	-19.30	311	263	Peak	Horizontal		
5	9764.00	48.00	52.96	-4.96	74.00	-26.00	100	198	Peak	Horizontal		
6	12205.00	47.55	47.98	-0.43	74.00	-26.45	200	195	Peak	Horizontal		

Middle Channel (Vertical)



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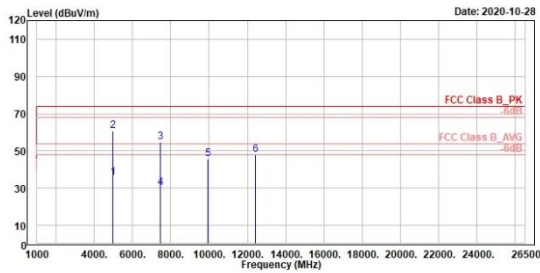
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4882.00	47.42	57.48	-10.06	74.00	-26.58	100	172	Peak	Vertical		
2	7323.00	30.61	38.40	-7.79	54.00	-23.39	105	297	Average	Vertical	DF	
3	7323.00	55.41	63.20	-7.79	74.00	-18.59	105	297	Peak	Vertical		
4	9764.00	46.27	51.23	-4.96	74.00	-27.73	200	213	Peak	Vertical		
5	12205.00	25.95	26.38	-0.43	54.00	-28.05	300	231	Average	Vertical	DF	
6	12205.00	50.75	51.18	-0.43	74.00	-23.25	300	231	Peak	Vertical		

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High Channel (Horizontal)



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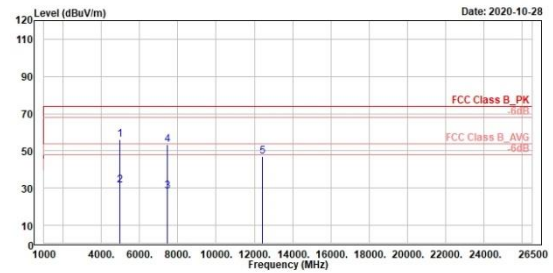


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4968.00	35.70	45.46	-9.76	54.00	-18.30	300	297	Average	Horizontal	DF
2	4968.00	60.50	70.26	-9.76	74.00	-13.50	300	297	Peak	Horizontal	
3	7440.00	54.93	62.65	-7.72	74.00	-19.07	302	265	Peak	Horizontal	DF
4	7440.00	30.08	37.80	-7.72	74.00	-43.92	302	265	Peak	Horizontal	DF
5	9920.00	45.84	50.52	-4.68	74.00	-28.16	200	183	Peak	Horizontal	
6	12400.00	47.75	47.92	-0.17	74.00	-26.25	200	177	Peak	Horizontal	

High Channel (Vertical)



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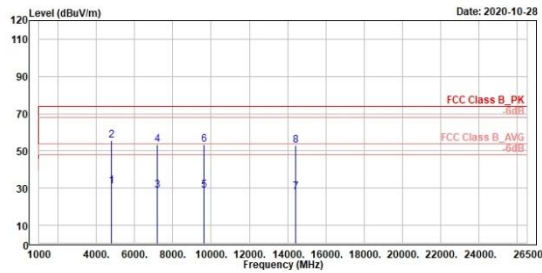
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MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4968.00	56.29	66.05	-9.76	74.00	-17.71	300	170	Peak	Vertical	DF
2	4968.00	31.49	41.25	-9.76	74.00	-42.51	300	170	Peak	Vertical	DF
3	7440.00	28.46	36.18	-7.72	54.00	-25.54	100	302	Average	Vertical	
4	7440.00	53.26	60.98	-7.72	74.00	-20.74	100	302	Peak	Vertical	DF
5	12400.00	47.22	47.39	-0.17	74.00	-26.78	100	316	Peak	Vertical	

8DPSK

Low Channel (Horizontal)



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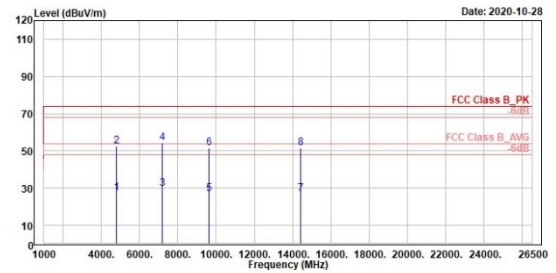


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4894.00	31.02	41.22	-10.20	54.00	-22.98	116	304	Average	Horizontal	DF	
2	4894.00	55.82	66.02	-10.20	74.00	-18.18	116	304	Peak	Horizontal		
3	7206.00	28.72	36.37	-7.65	54.00	-25.28	100	296	Average	Horizontal	DF	
4	7206.00	53.53	61.18	-7.65	74.00	-20.47	100	296	Peak	Horizontal		
5	9608.00	28.72	34.01	-5.29	54.00	-25.28	100	203	Average	Horizontal	DF	
6	9608.00	53.52	58.01	-5.29	74.00	-20.48	100	203	Peak	Horizontal		
7	14412.00	27.94	26.10	1.84	54.00	-26.06	400	227	Average	Horizontal	DF	
8	14412.00	52.74	50.90	1.84	74.00	-21.26	400	227	Peak	Horizontal		

Low Channel (Vertical)



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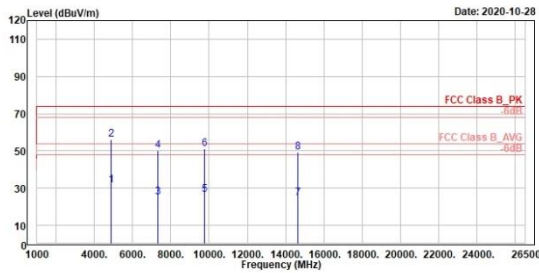
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4894.00	27.45	37.65	-10.20	54.00	-26.55	110	192	Average	Vertical	DF	
2	4894.00	52.25	62.45	-10.20	74.00	-21.75	110	192	Peak	Vertical		
3	7206.00	29.60	37.25	-7.65	54.00	-24.40	110	294	Average	Vertical	DF	
4	7206.00	54.40	62.05	-7.65	74.00	-19.60	110	294	Peak	Vertical		
5	9608.00	26.82	32.11	-5.29	54.00	-27.18	225	214	Average	Vertical	DF	
6	9608.00	51.62	56.91	-5.29	74.00	-22.38	225	214	Peak	Vertical		
7	14412.00	26.96	25.12	1.84	54.00	-27.04	106	304	Average	Vertical	DF	
8	14412.00	51.76	49.92	1.84	74.00	-22.24	106	304	Peak	Vertical		

8DPSK

Middle Channel (Horizontal)



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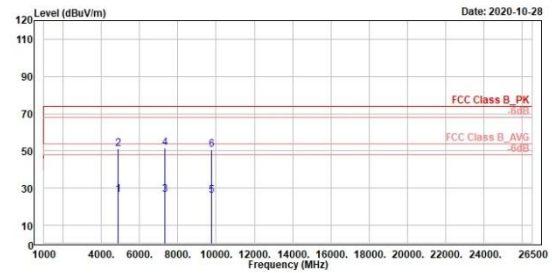


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4882.00	31.34	41.40	-10.06	54.00	-22.66	100	287	Average	Horizontal	DF	
2	4882.00	56.14	66.20	-10.06	74.00	-17.86	100	287	Peak	Horizontal		
3	7323.00	25.26	33.05	-7.79	54.00	-28.74	100	315	Average	Horizontal	DF	
4	7323.00	50.05	57.84	-7.79	74.00	-23.95	100	315	Peak	Horizontal		
5	9764.00	26.41	31.37	-4.96	54.00	-27.59	200	193	Average	Horizontal	DF	
6	9764.00	51.20	56.16	-4.96	74.00	-22.80	200	193	Peak	Horizontal		
7	14646.00	24.63	22.15	2.48	54.00	-29.37	200	259	Average	Horizontal	DF	
8	14646.00	49.43	46.95	2.48	74.00	-24.57	200	259	Peak	Horizontal		

Middle Channel (Vertical)



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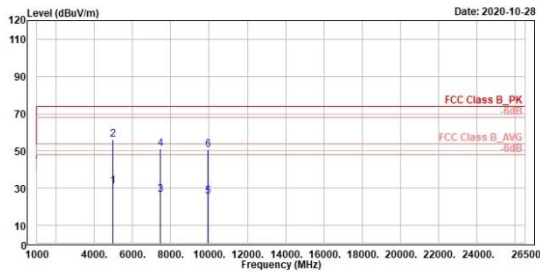
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4882.00	26.54	36.60	-10.06	54.00	-27.46	100	36	Average	Vertical	DF	
2	4882.00	51.33	61.39	-10.06	74.00	-22.67	100	36	Peak	Vertical		
3	7323.00	26.62	34.41	-7.79	54.00	-27.38	100	275	Average	Vertical	DF	
4	7323.00	51.41	59.20	-7.79	74.00	-22.59	100	275	Peak	Vertical		
5	9764.00	25.88	30.84	-4.96	54.00	-28.12	300	190	Average	Vertical	DF	
6	9764.00	50.67	55.63	-4.96	74.00	-23.33	300	190	Peak	Vertical		

8DPSK

High Channel (Horizontal)



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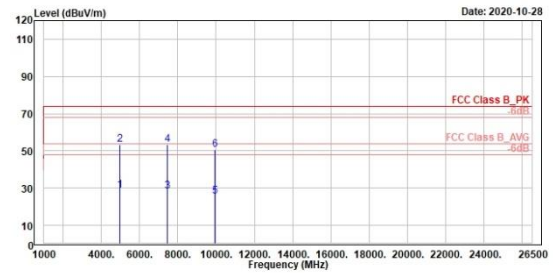


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4960.00	31.12	40.88	-9.76	54.00	-22.88	300	286	Average	Horizontal	DF	
2	4960.00	55.93	65.69	-9.76	74.00	-18.07	300	286	Peak	Horizontal		
3	7440.00	26.30	34.02	-7.72	54.00	-27.70	200	257	Average	Horizontal	DF	
4	7440.00	51.11	58.83	-7.72	74.00	-22.89	200	257	Peak	Horizontal		
5	9920.00	25.63	30.31	-4.68	54.00	-28.37	100	226	Average	Horizontal	DF	
6	9920.00	50.43	55.11	-4.68	74.00	-23.57	100	226	Peak	Horizontal		

High Channel (Vertical)



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4960.00	28.54	38.30	-9.76	54.00	-25.46	296	173	Average	Vertical	DF	
2	4960.00	53.34	63.10	-9.76	74.00	-20.66	296	173	Peak	Vertical		
3	7440.00	28.51	36.23	-7.72	54.00	-25.49	299	313	Average	Vertical	DF	
4	7440.00	53.31	61.03	-7.72	74.00	-20.69	299	313	Peak	Vertical		
5	9920.00	25.65	30.33	-4.68	54.00	-28.35	300	200	Average	Vertical	DF	
6	9920.00	50.45	55.13	-4.68	74.00	-23.55	300	200	Peak	Vertical		

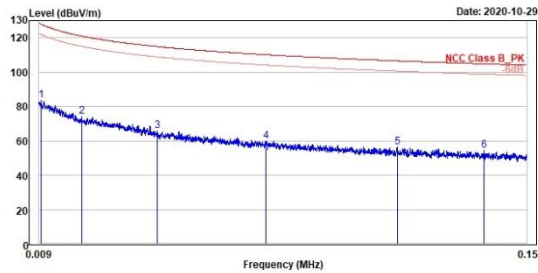
Spurious Emissions, Rx Mode, 9kHz ~ 30MHz

GFSK

High Channel(Open) 9kHz~150kHz



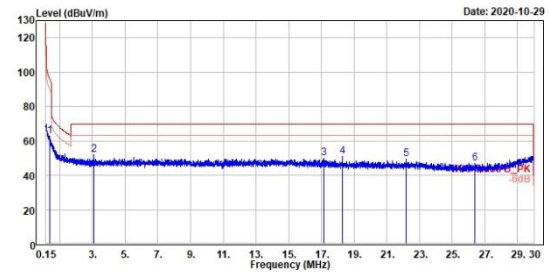
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.01	83.41	4.21	79.20	127.87	-44.46	100	352	QP	Open	
2	0.02	74.04	1.75	72.29	120.98	-46.94	100	15	QP	Open	
3	0.04	65.51	-1.23	66.74	114.88	-49.37	100	12	QP	Open	
4	0.07	59.96	-1.87	61.83	110.13	-50.17	100	352	QP	Open	
5	0.11	56.17	-2.35	58.52	106.57	-50.40	100	56	QP	Open	
6	0.14	54.24	-2.83	57.07	104.02	-50.50	100	199	QP	Open	



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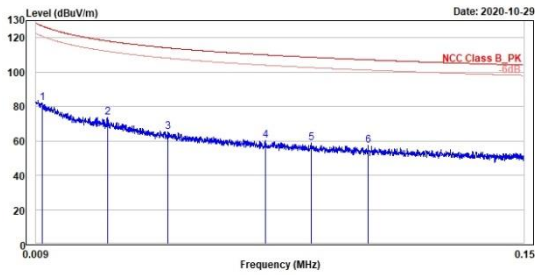
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.40	62.67	14.31	48.36	95.55	-32.88	100	81	QP	Open	
2	3.07	51.75	13.52	38.23	69.50	-17.75	100	157	QP	Open	
3	17.17	49.77	12.68	37.09	69.50	-19.73	100	118	QP	Open	
4	18.30	50.82	14.09	36.73	69.50	-10.68	100	168	QP	Open	
5	22.19	49.32	13.51	35.81	69.50	-20.18	100	130	QP	Open	
6	26.39	47.05	12.75	34.30	69.50	-22.45	100	6	QP	Open	

GFSK

High Channel(Close) 9kHz~150kHz



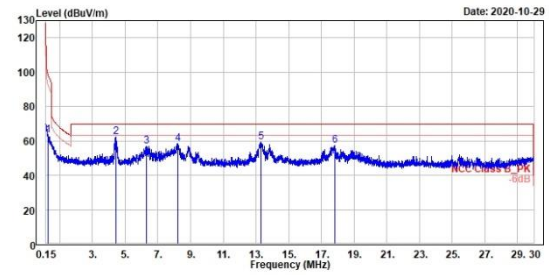
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.01	82.07	3.81	78.26	126.82	-44.75	100	221 QP	Close		
2	0.03	73.60	2.78	70.82	118.16	-44.56	100	290 QP	Close		
3	0.05	65.28	-0.48	65.76	114.12	-48.84	100	297 QP	Close		
4	0.08	60.38	-1.39	61.77	110.06	-49.68	100	226 QP	Close		
5	0.09	58.69	-1.87	60.56	108.65	-49.96	100	309 QP	Close		
6	0.10	57.32	-1.64	58.96	107.17	-49.85	100	95 QP	Close		



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.27	63.08	11.79	51.29	98.90	-35.82	100	289 QP	Close		
2	4.41	62.20	23.87	38.33	69.50	-7.30	100	247 QP	Close		
3	6.31	57.02	18.67	38.35	69.50	-12.48	100	22 QP	Close		
4	8.23	58.31	20.31	38.00	69.50	-11.19	100	8 QP	Close		
5	13.30	59.15	21.68	37.47	69.50	-10.35	100	80 QP	Close		
6	17.81	57.17	20.27	36.90	69.50	-12.33	100	350 QP	Close		

	Freq	Level	Read Line	Factor	Limit Line	Over Limit	Apos	TPS	Remark	Pol/Phase	Note
	FHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	31.46	24.92	34.62	-0.18	48.00	-15.88	100	126	QP	vertical	
2	83.86	21.77	34.72	-12.95	48.00	-18.23	200	259	QP	vertical	
3	245.83	28.66	36.80	-0.14	46.00	-17.34	200	228	QP	vertical	
4	442.35	31.01	34.88	-0.87	46.00	-14.99	100	259	QP	vertical	
5	662.05	29.31	30.00	-0.54	46.00	-16.19	100	120	QP	vertical	
6	818.66	31.99	30.08	1.91	46.00	-14.81	100	359	QP	vertical	

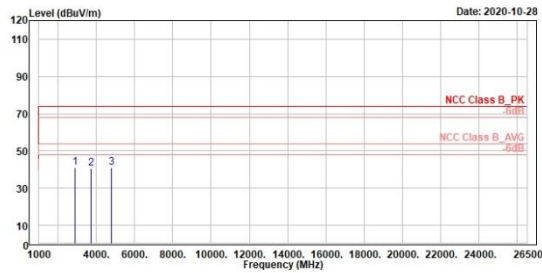
Spurious Emissions, Rx Mode, 1GHz ~ 26.5GHz

GFSK

High Channel (Horizontal)



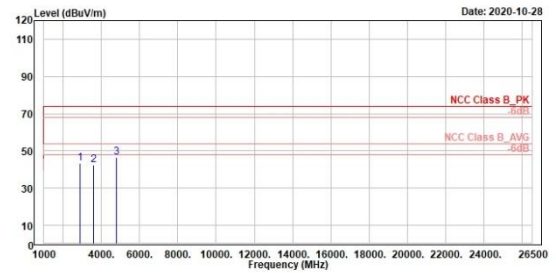
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2882.00	40.90	54.30	-13.40	74.00	-33.10	100	118	Peak	Horizontal	
2	3743.00	40.61	52.21	-11.60	74.00	-33.39	400	0	Peak	Horizontal	
3	4785.00	40.97	51.13	-10.16	74.00	-33.03	200	360	Peak	Horizontal	



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2870.00	43.31	56.04	-12.73	74.00	-30.69	300	264	Peak	Vertical	
2	3586.00	42.28	54.42	-12.14	74.00	-31.72	356	360	Peak	Vertical	
3	4795.00	46.55	56.74	-10.19	74.00	-27.45	400	17	Peak	Vertical	

Mains Conducted Emission, 150kHz ~ 30MHz

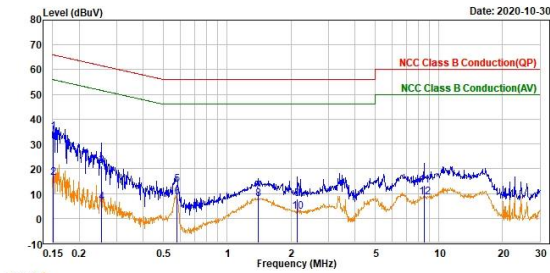
Worst Band

(Line)

(Neutral)



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