

TEST REPORT

Application No.: SZCR2310003351AT
Applicant: SKULLCANDY, INC.
Address of Applicant: 6301 N Landmark Dr Park City UT 84098, Utah United States of America
Manufacturer: SKULLCANDY, INC.
Address of Manufacturer: 6301 N Landmark Dr Park City UT 84098, Utah United States of America
Equipment Under Test (EUT):
EUT Name: ECOBUDS
Model No.: S2EOW
Trade Mark:  Skullcandy
FCC ID: Y22-S2EOW
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2023-10-19
Date of Test: 2023-10-21 to 2023-10-25
Date of Issue: 2023-11-07

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu

Keny Xu
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch EMC Laboratory

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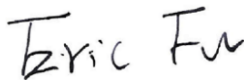
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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-11-07		Original

Authorized for issue by:				
				
		Charlie Dai/Project Engineer		
				
		Eric Fu/Reviewer		



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass



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4 General Information

4.1 Details of E.U.T.

Power supply:	Left earbuds: Li-Ion Polymer Battery 3.7V 45mAh Right earbuds: Li-Ion Polymer Battery 3.7V 45mAh Travel case without Battery.
Cable(s):	Integrated USB-C cable 3cm unshielded.
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.3 Dual mode
Modulation Type:	GFSK
Data Rate:	1Mbps
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	PIFA Antenna
Antenna Gain:	Left earbuds: 0.96dBi; Right earbuds: 0.79dBi
Cable Loss (for RF conducted test):	0.5dB

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
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The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Peak Output Power	$\pm 0.75\text{dB}$
Minimum 6dB Bandwidth	$\pm 3\%$
Power Spectrum Density	$\pm 2.84\text{dB}$
Conducted Band Edges Measurement	$\pm 0.75\text{dB}$
Conducted Spurious Emissions	$\pm 0.75\text{dB}$
Radiated Emissions which fall in the restricted bands	$\pm 6.0\text{dB}$ (Below 1GHz); $\pm 4.6\text{dB}$ (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	$\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m
Radiated Spurious Emissions Above 1GHz	$\pm 4.6\text{dB}$ (1-18GHz); $\pm 4.8\text{dB}$ (18-40GHz)



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Remark:

The U_{lab} (lab Uncertainty) is less than $U_{CISPR/ETSI}$ (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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4.4 Test Location

All tests were performed at:

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Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



5 Equipment List

Conducted Peak Output Power					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2023-04-01	2024-03-31
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2023-03-21	2024-03-20
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30

Minimum 6dB Bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30

Power Spectrum Density					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30

Conducted Band Edges Measurement					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06

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Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30
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Conducted Spurious Emissions

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30

Radiated Emissions which fall in the restricted bands

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2023-03-20	2024-03-19

Radiated Spurious Emissions Below 1GHz

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2021-03-27	2024-03-26
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2023-10-19	2024-10-18
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2023-09-23	2025-09-22
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2023-03-31	2024-03-30
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2021-11-30	2023-11-29
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2023-07-07	2024-07-06



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Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2023-03-20	2024-03-19

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2023-07-28	2024-07-27
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2023-07-28	2024-07-27
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2023-03-23	2024-03-22



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is Left earbuds: 0.96dBi; Right earbuds: 0.79dBi

Antenna location: Refer to internal photos



7 Radio Spectrum Matter Test Results

7.1 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)

Test Method: ANSI C63.10 (2013) Section 11.9.1

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq$ hopping channels < 50
	1 for digital modulation
2400-2483.5	1 for ≥ 75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C

Humidity: 60.1 % RH

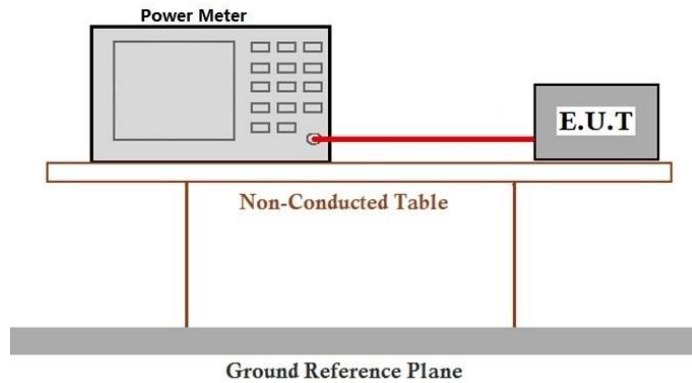
Atmospheric Pressure: 1000 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode(Left earbuds 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	06	TX mode(Right earbuds 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation



7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.2 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)

Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit:

≥500 kHz

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C

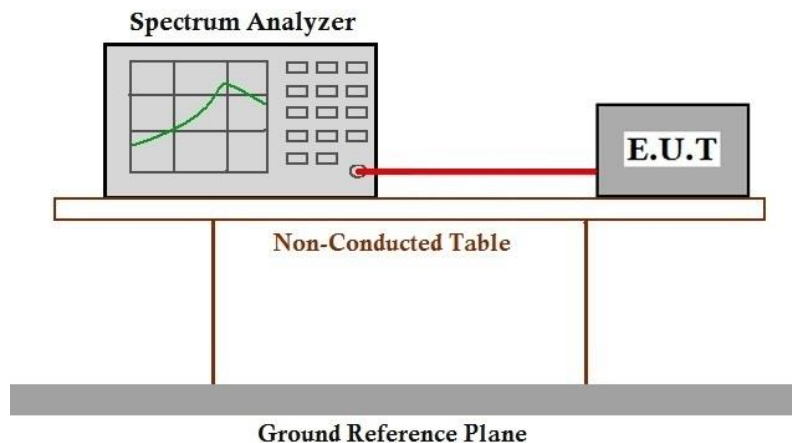
Humidity: 60.1 % RH

Atmospheric Pressure: 1000 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode(Left earbuds 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	06	TX mode(Right earbuds 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.3 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)

Test Method: ANSI C63.10 (2013) Section 11.10.2

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C

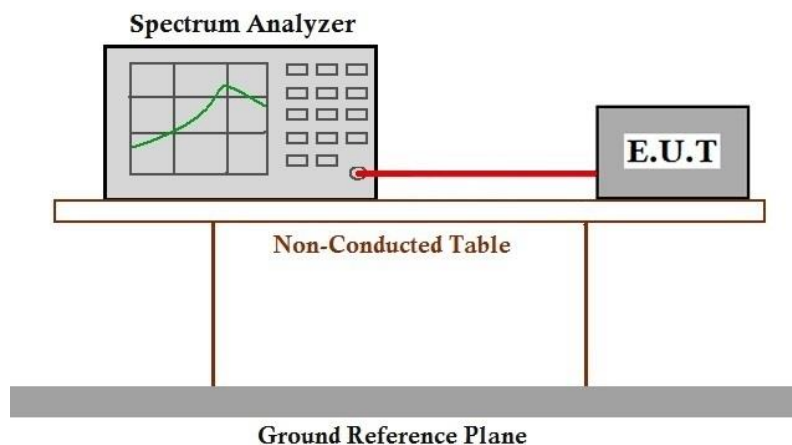
Humidity: 60.1 % RH

Atmospheric Pressure: 1000 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode(Left earbuds 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	06	TX mode(Right earbuds 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.4 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 11.13.3.2

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C

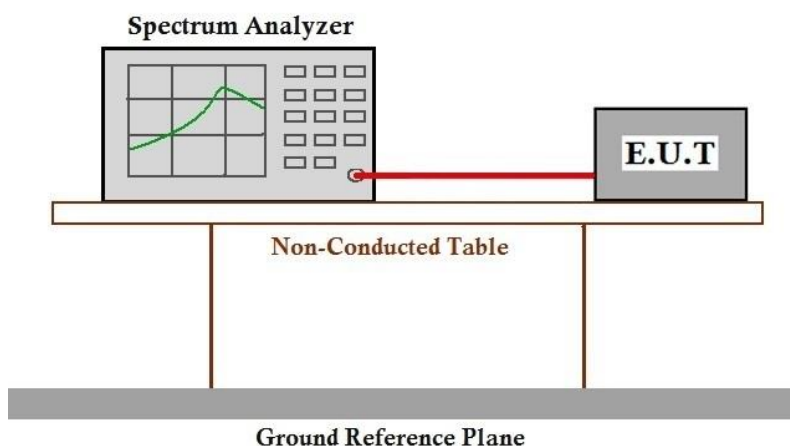
Humidity: 60.1 % RH

Atmospheric Pressure: 1000 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode(Left earbuds 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	06	TX mode(Right earbuds 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation

7.4.3 Test Setup Diagram



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7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.5 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2013) Section 11.11

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C

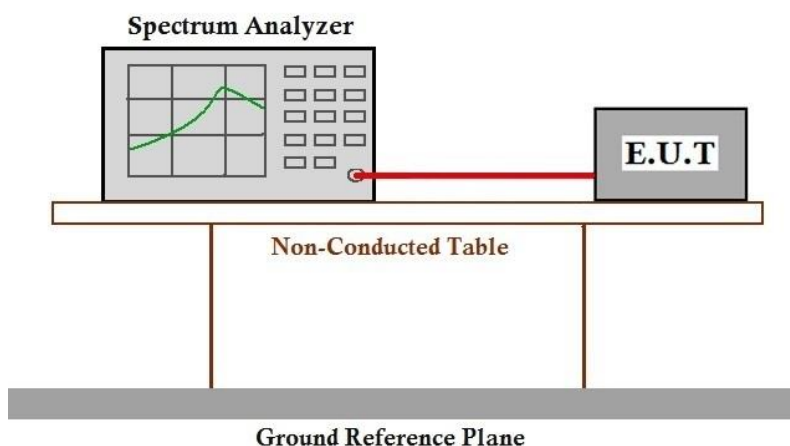
Humidity: 60.1 % RH

Atmospheric Pressure: 1000 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode(Left earbuds 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	06	TX mode(Right earbuds 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation

7.5.3 Test Setup Diagram





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7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.6 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.10.5

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 21.4 °C

Humidity: 61.1 % RH

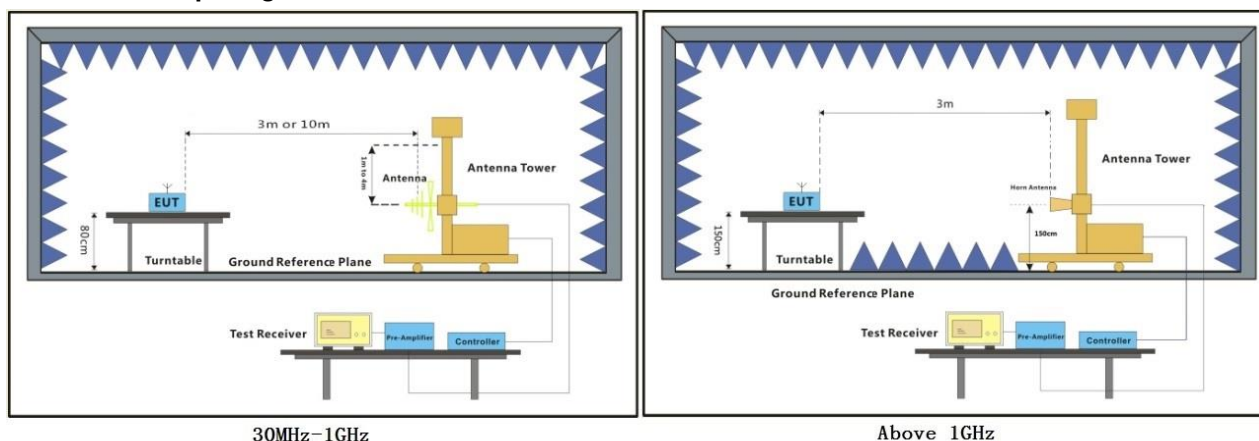
Atmospheric Pressure: 1000 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode(Left earbuds 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	06	TX mode(Right earbuds 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation



7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

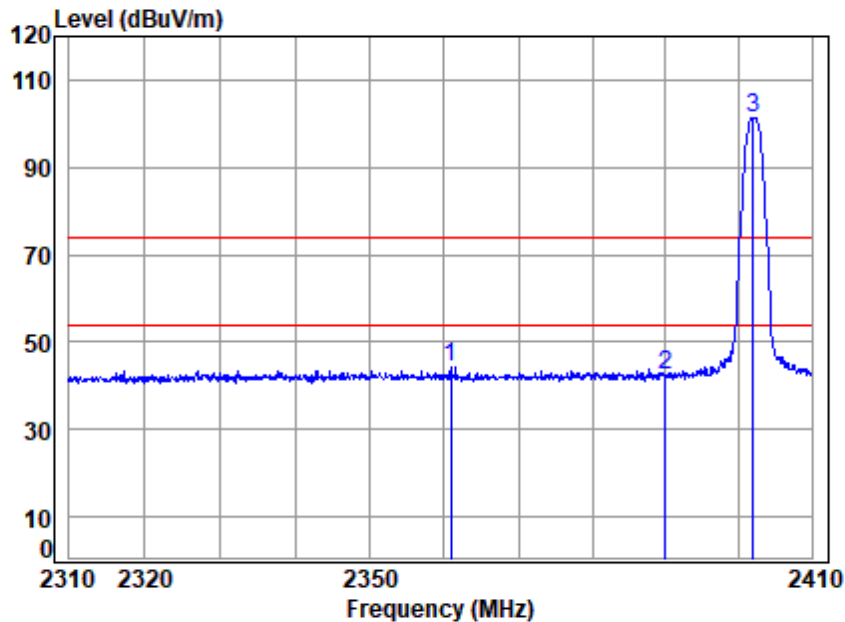
- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height 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.
- 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; Channel:Low

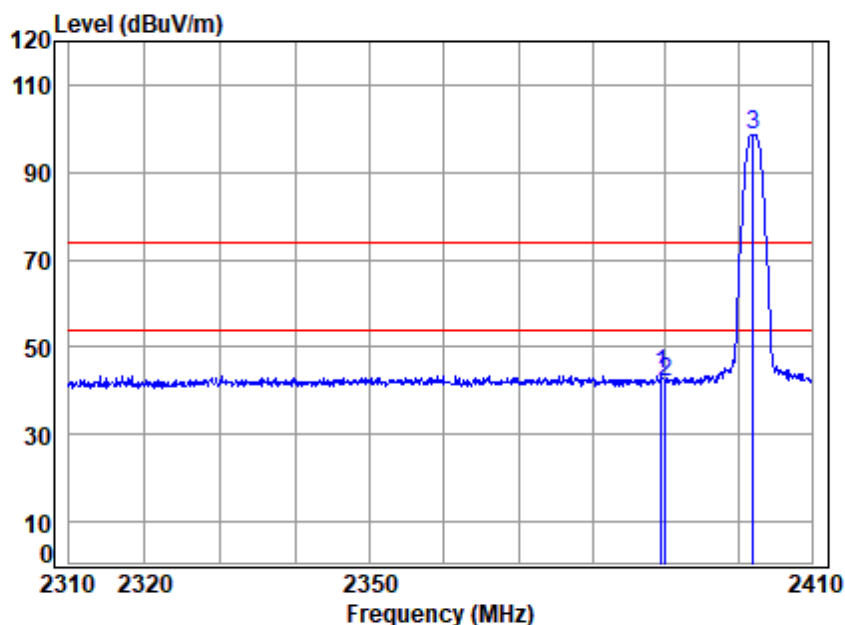


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03351AT\03352AT
Mode : 2402 Band edge
Note : BLE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2360.871	5.05	29.10	37.50	47.83	44.48	74.00	-29.52	peak
2	2390.000	5.08	29.10	37.44	45.47	42.21	74.00	-31.79	peak
3 q	2402.000	5.09	29.09	37.41	104.61	101.38	74.00	27.38	peak



Test Mode: 04; Polarity: Vertical; Modulation:GFSK; Channel:Low

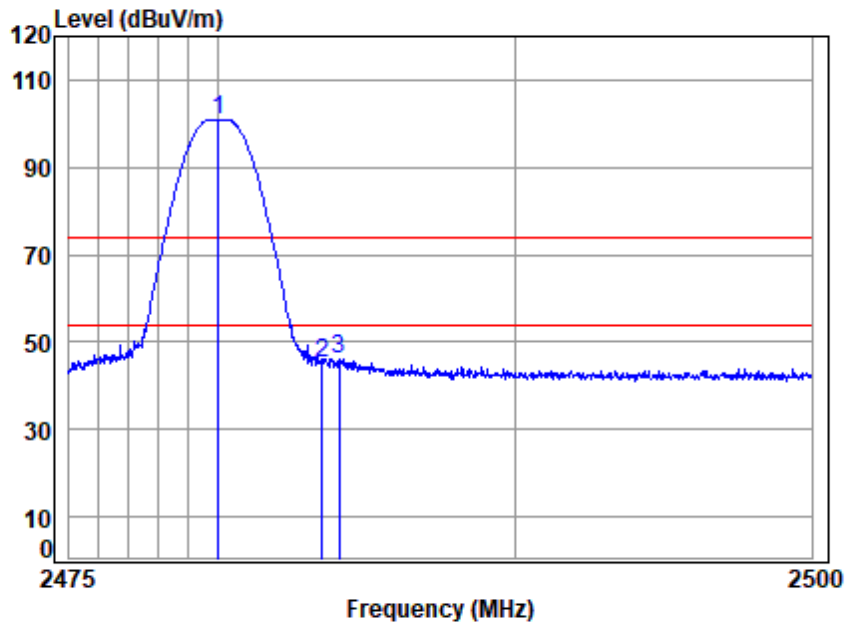


Site : chamber
Condition: 3m VERTICAL
Job No : 03351AT\03352AT
Mode : 2402 Band edge
Note : BLE

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.457	5.07	29.10	37.44	46.90	43.63	74.00	-30.37 peak
2	2390.000	5.08	29.10	37.44	45.30	42.04	74.00	-31.96 peak
3 q	2402.000	5.09	29.09	37.41	101.99	98.76	74.00	24.76 peak



Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; Channel:High

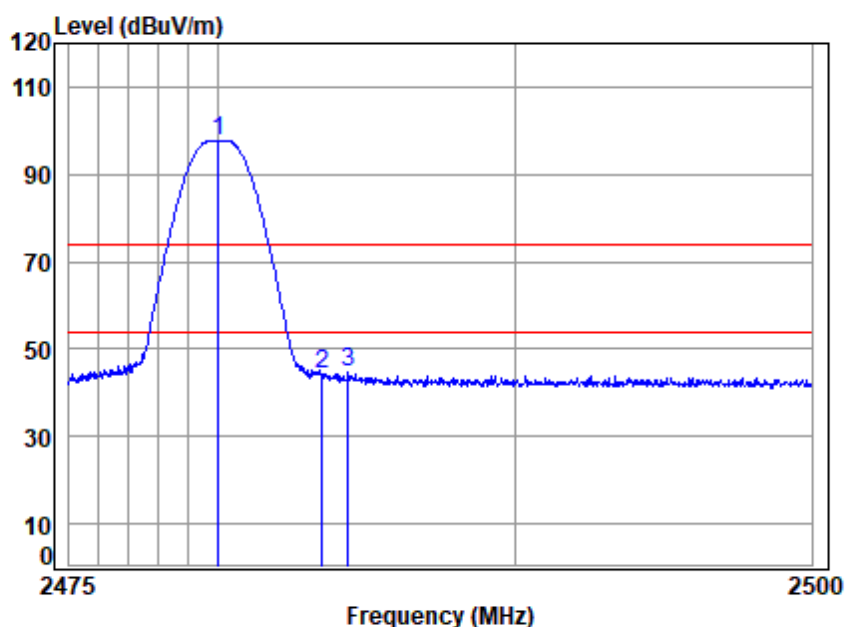


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03351AT\03352AT
Mode : 2480 Band edge
Note : BLE

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q	2480.000	5.16	28.90	37.22	104.21	101.05	74.00	27.05 peak
2	2483.500	5.16	28.90	37.22	48.46	45.30	74.00	-28.70 peak
3	2484.046	5.16	28.90	37.22	49.04	45.88	74.00	-28.12 peak



Test Mode: 04; Polarity: Vertical; Modulation:GFSK; Channel:High

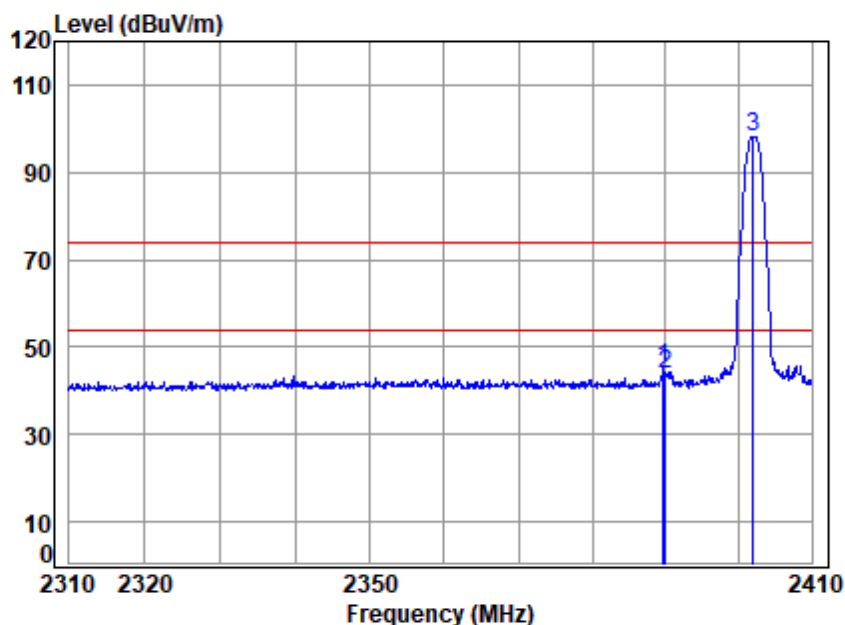


Site : chamber
Condition: 3m VERTICAL
Job No : 03351AT\03352AT
Mode : 2480 Band edge
Note : BLE

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q	2480.000	5.16	28.90	37.22	101.00	97.84	74.00	23.84 peak
2	2483.500	5.16	28.90	37.22	47.46	44.30	74.00	-29.70 peak
3	2484.371	5.16	28.90	37.21	47.68	44.53	74.00	-29.47 peak



Test Mode: 06; Polarity: Horizontal; Modulation:GFSK; Channel:Low

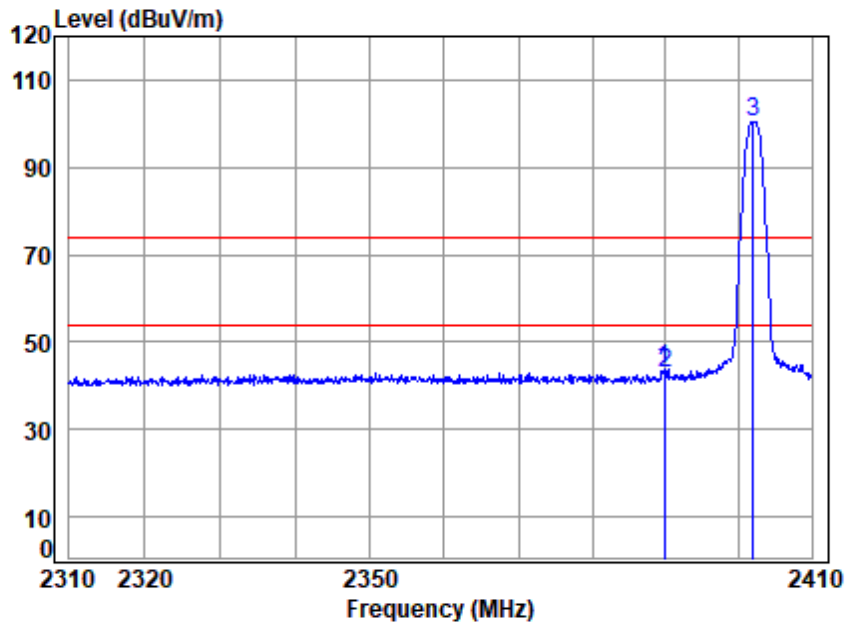


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03351AT\03352AT
Mode : 2402 Band edge
Note : BLE

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.659	5.08	29.10	37.44	48.27	45.01	74.00	-28.99 peak
2	2390.000	5.08	29.10	37.44	46.85	43.59	74.00	-30.41 peak
3 q	2402.000	5.09	29.09	37.41	101.25	98.02	74.00	24.02 peak



Test Mode: 06; Polarity: Vertical; Modulation:GFSK; Channel:Low

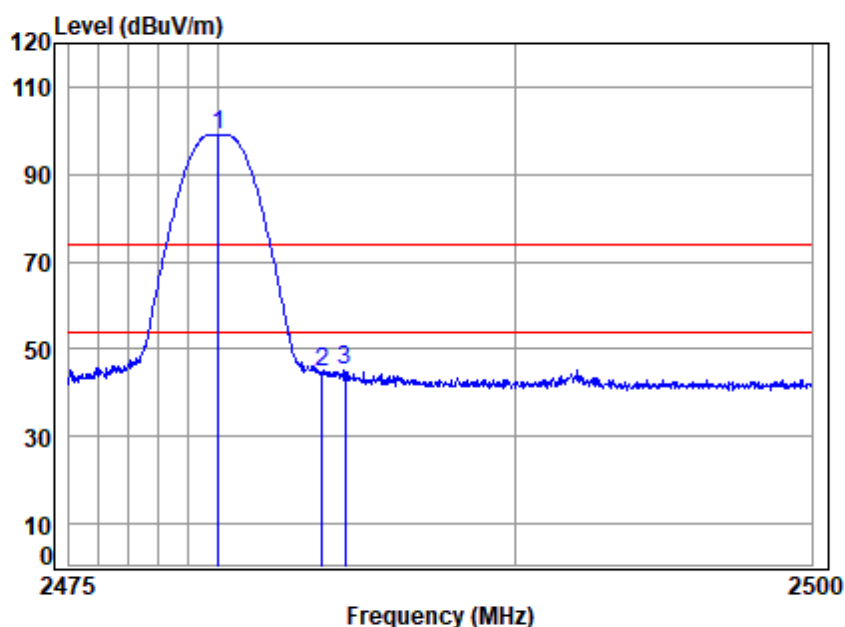


Site : chamber
Condition: 3m VERTICAL
Job No : 03351AT\03352AT
Mode : 2402 Band edge
Note : BLE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.862	5.08	29.10	37.44	46.85	43.59	74.00	-30.41	peak
2	2390.000	5.08	29.10	37.44	46.33	43.07	74.00	-30.93	peak
3 q	2402.000	5.09	29.09	37.41	103.64	100.41	74.00	26.41	peak



Test Mode: 06; Polarity: Horizontal; Modulation:GFSK; Channel:High

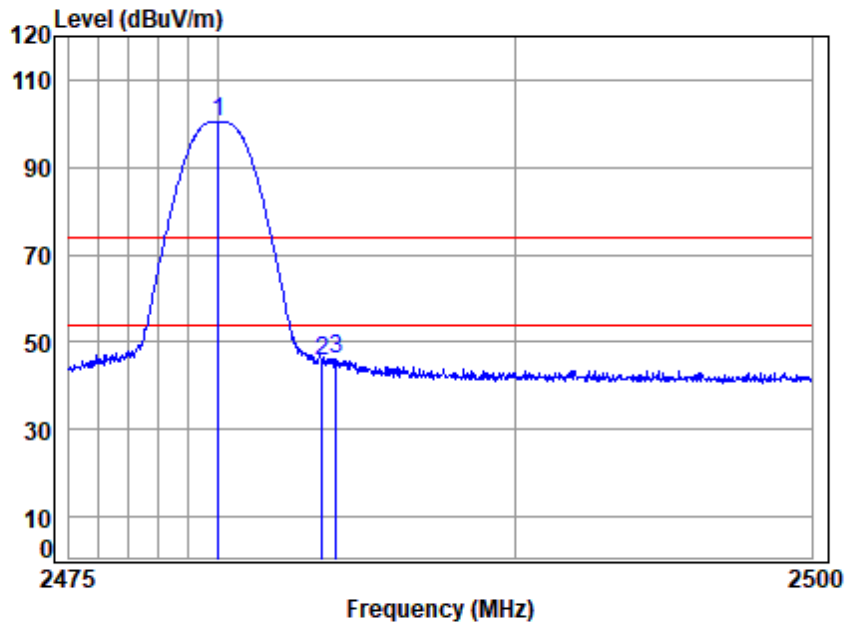


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03351AT\03352AT
Mode : 2480 Band edge
Note : BLE

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q	2480.000	5.16	28.90	37.22	102.35	99.19	74.00	25.19 peak
2	2483.500	5.16	28.90	37.22	47.70	44.54	74.00	-29.46 peak
3	2484.246	5.16	28.90	37.21	48.51	45.36	74.00	-28.64 peak



Test Mode: 06; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03351AT\03352AT
Mode : 2480 Band edge
Note : BLE

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q	2480.000	5.16	28.90	37.22	103.52	100.36	74.00	26.36 peak
2	2483.500	5.16	28.90	37.22	48.68	45.52	74.00	-28.48 peak
3	2483.971	5.16	28.90	37.22	49.43	46.27	74.00	-27.73 peak



7.7 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

Measurement Distance: 10m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.3 °C

Humidity: 51.6 % RH

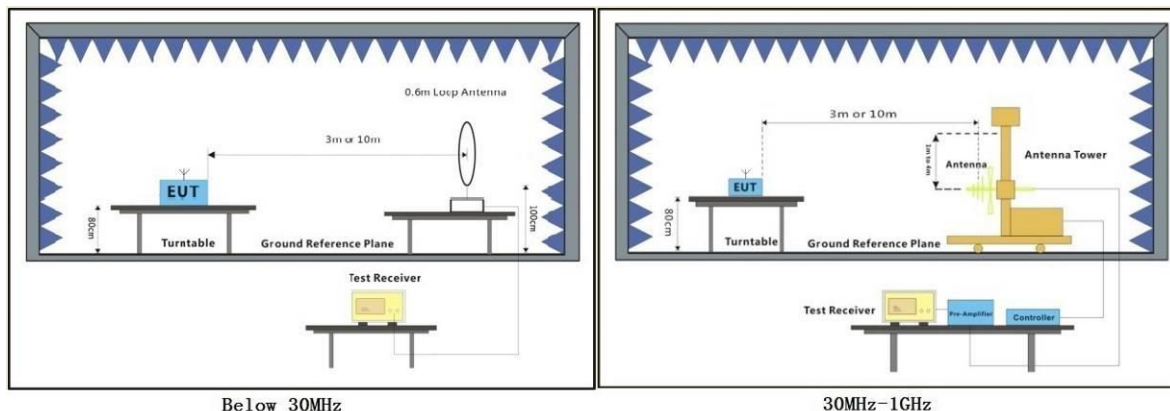
Atmospheric Pressure: 1000 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode(Left earbuds 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	06	TX mode(Right earbuds 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation



7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

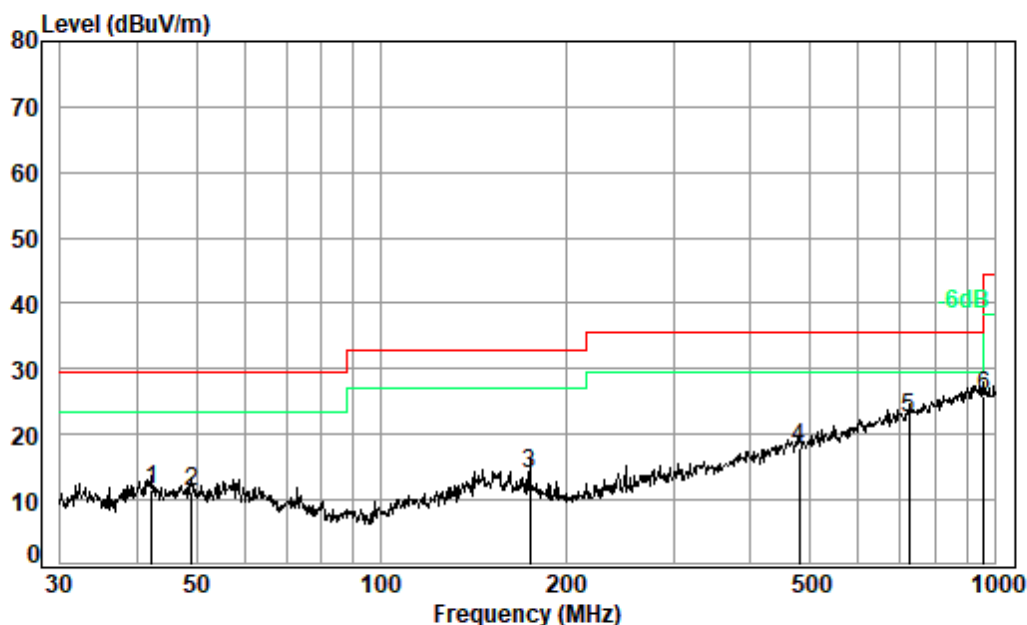
- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height 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.
- 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- Repeat above procedures until all frequencies measured was complete.

Remark:

- Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



Test Mode: 04; Polarity: Horizontal



Condition: 10m HORIZONTAL

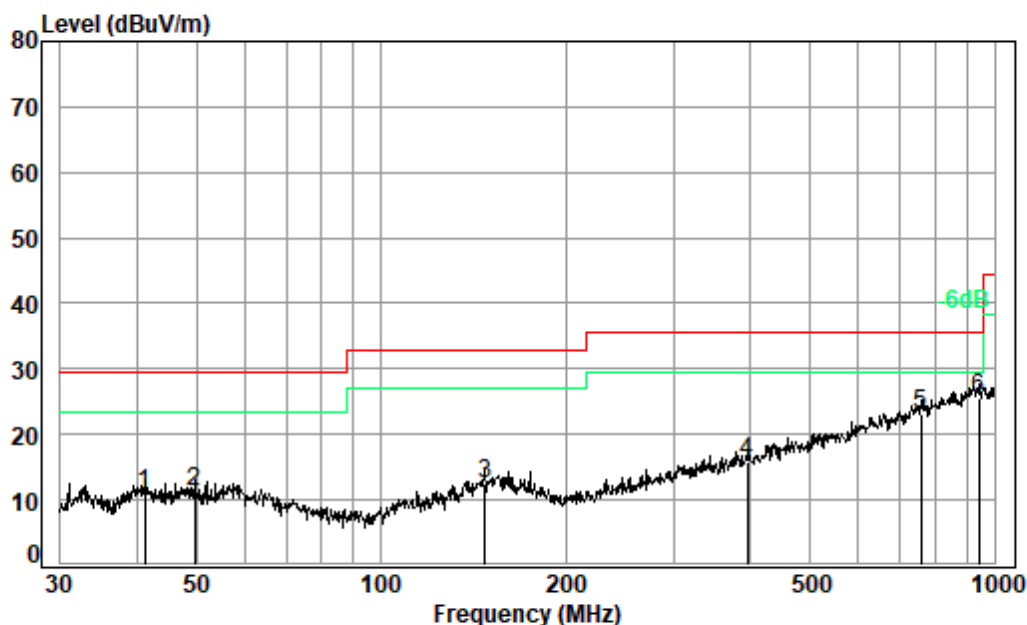
Job No. : 03351AT/03352AT

Test Mode: 04

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	42.302	26.45	17.23	0.46	32.50	11.64	29.50	-17.86	QP
2	49.187	26.17	17.19	0.51	32.50	11.37	29.50	-18.13	QP
3	175.037	29.33	16.16	1.02	32.40	14.11	33.00	-18.89	QP
4	480.528	26.94	21.49	1.78	32.30	17.91	35.60	-17.69	QP
5 pp	724.261	27.04	25.46	2.29	32.23	22.56	35.60	-13.04	QP
6	962.162	26.30	28.30	2.64	31.28	25.96	44.40	-18.44	QP



Test Mode: 04; Polarity: Vertical



Condition: 10m VERTICAL

Job No. : 03351AT/03352AT

Test Mode: 04

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	41.132	25.83	17.16	0.46	32.50	10.95	29.50	-18.55	QP
2	49.707	26.00	17.18	0.51	32.50	11.19	29.50	-18.31	QP
3	147.921	26.56	17.49	0.91	32.40	12.56	33.00	-20.44	QP
4	394.855	26.56	19.84	1.62	32.30	15.72	35.60	-19.88	QP
5	758.041	27.10	25.88	2.36	32.13	23.21	35.60	-12.39	QP
6 pp	942.131	25.93	28.37	2.62	31.32	25.60	35.60	-10.00	QP



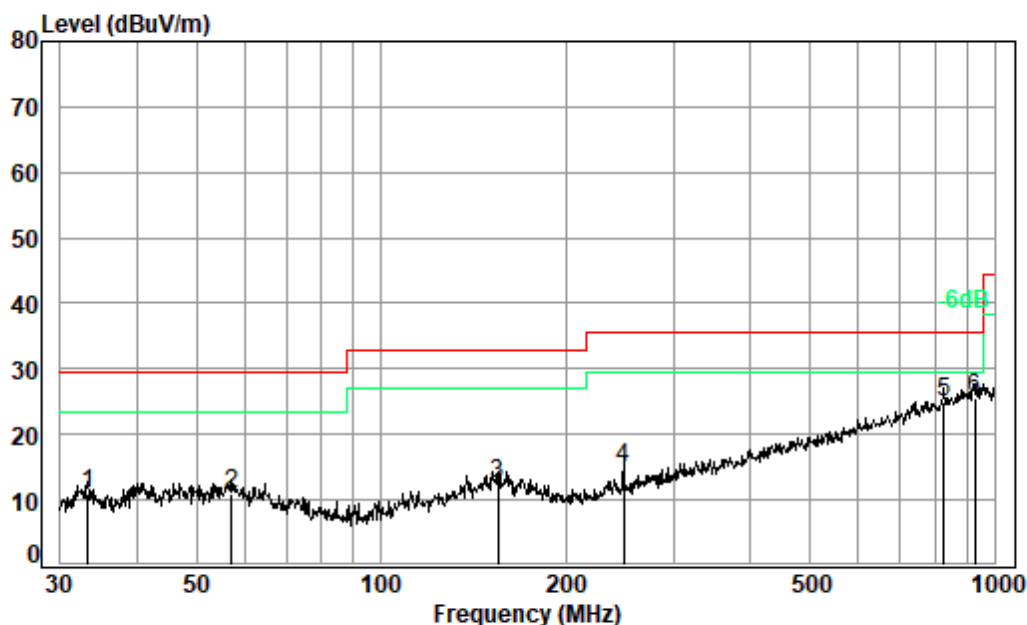
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Test Mode: 06; Polarity: Horizontal

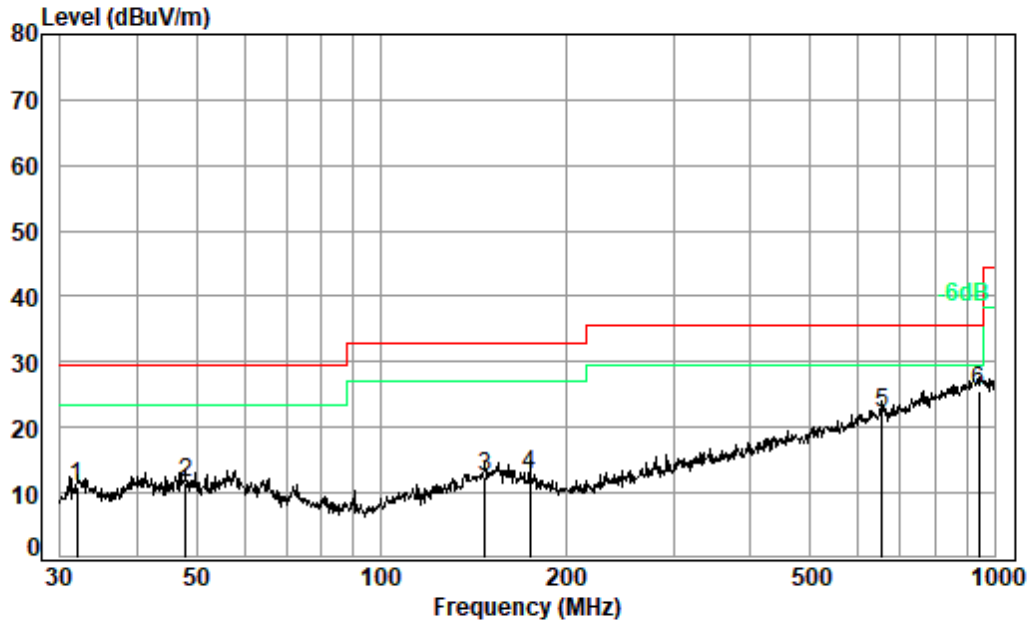


Condition: 10m HORIZONTAL
Job No. : 03351AT/03352AT
Test Mode: 06

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	33.328	26.65	16.30	0.41	32.50	10.86	29.50	-18.64	QP
2	56.991	25.69	17.29	0.54	32.49	11.03	29.50	-18.47	QP
3	154.821	26.06	17.82	0.94	32.40	12.42	33.00	-20.58	QP
4	248.552	29.77	16.10	1.26	32.35	14.78	35.60	-20.82	QP
5	827.493	27.73	26.71	2.49	31.84	25.09	35.60	-10.51	QP
6 pp	929.008	26.31	28.10	2.60	31.34	25.67	35.60	-9.93	QP



Test Mode: 06; Polarity: Vertical



Condition: 10m VERTICAL

Job No. : 03351AT/03352AT

Test Mode: 06

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	31.955	26.69	16.25	0.40	32.50	10.84	29.50	-18.66	QP
2	47.994	26.27	17.22	0.50	32.50	11.49	29.50	-18.01	QP
3	147.921	26.56	17.49	0.91	32.40	12.56	33.00	-20.44	QP
4	175.037	28.08	16.16	1.02	32.40	12.86	33.00	-20.14	QP
5	656.530	27.59	24.67	2.17	32.34	22.09	35.60	-13.51	QP
6 pp	942.131	25.93	28.37	2.62	31.32	25.60	35.60	-10.00	QP



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Report No.: SZCR231000335103

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The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

$$L_3 / L_{10} = D_{10} / D_3$$

Note:

L₃: Level @ 3m distance. Unit: uV/m;

L₁₀: Level @ 10m distance. Unit: uV/m;

D₃: 3m distance. Unit: m

D₁₀: 10m distance. Unit: m

The level at 3m test distance is below:

Test Mode: 04

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
42.302	11.64	3.82	12.73	22.10	40.00	-17.90	H
49.187	11.37	3.70	12.34	21.83	40.00	-18.17	H
175.037	14.11	5.08	16.92	24.57	43.50	-18.93	H
480.528	17.91	7.86	26.20	28.37	46.00	-17.63	H
724.261	22.56	13.43	44.76	33.02	46.00	-12.98	H
962.162	25.96	19.86	66.20	36.42	54.00	-17.58	H
41.132	10.95	3.53	11.76	21.41	40.00	-18.59	V
49.707	11.19	3.63	12.09	21.65	40.00	-18.35	V
147.921	12.56	4.25	14.15	23.02	43.50	-20.48	V
394.855	15.72	6.11	20.36	26.18	46.00	-19.82	V
758.041	23.21	14.47	48.24	33.67	46.00	-12.33	V
942.131	25.6	19.05	63.52	36.06	46.00	-9.94	V



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231000335103

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Test Mode: 06

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
33.328	10.86	3.49	11.64	21.32	40.00	-18.68	H
56.991	11.03	3.56	11.87	21.49	40.00	-18.51	H
154.821	12.42	4.18	13.93	22.88	43.50	-20.62	H
248.552	14.78	5.48	18.28	25.24	46.00	-20.76	H
827.493	25.09	17.97	59.89	35.55	46.00	-10.45	H
929.008	25.67	19.21	64.03	36.13	46.00	-9.87	H
31.955	10.84	3.48	11.61	21.30	40.00	-18.70	V
47.994	11.49	3.75	12.51	21.95	40.00	-18.05	V
147.921	12.56	4.25	14.15	23.02	43.50	-20.48	V
175.037	12.86	4.40	14.65	23.32	43.50	-20.18	V
656.53	22.09	12.72	42.40	32.55	46.00	-13.45	V
942.131	25.6	19.05	63.52	36.06	46.00	-9.94	V



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7.8 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.6

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 21.4 °C

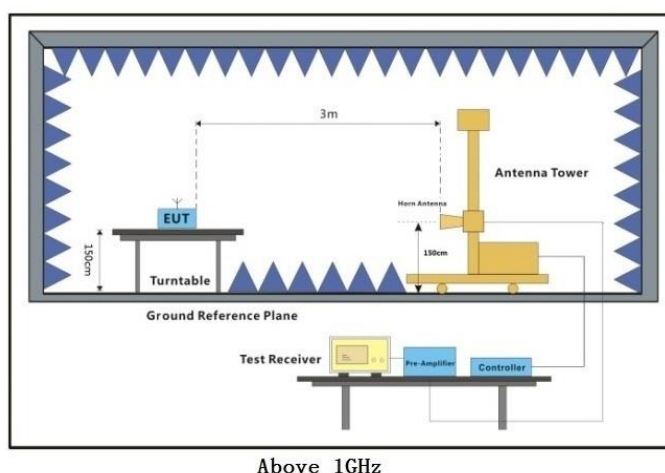
Humidity: 61.1 % RH

Atmospheric Pressure: 1000 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode(Left earbuds 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation
Final test	06	TX mode(Right earbuds 1Mbps)_Keep the EUT in continuously transmitting mode with GFSK modulation

7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

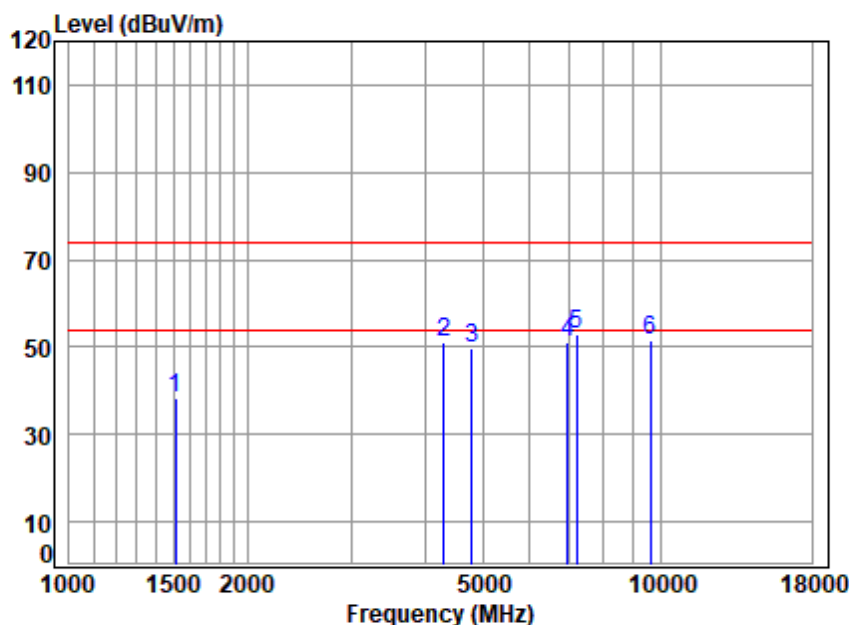
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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 Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; Channel:Low

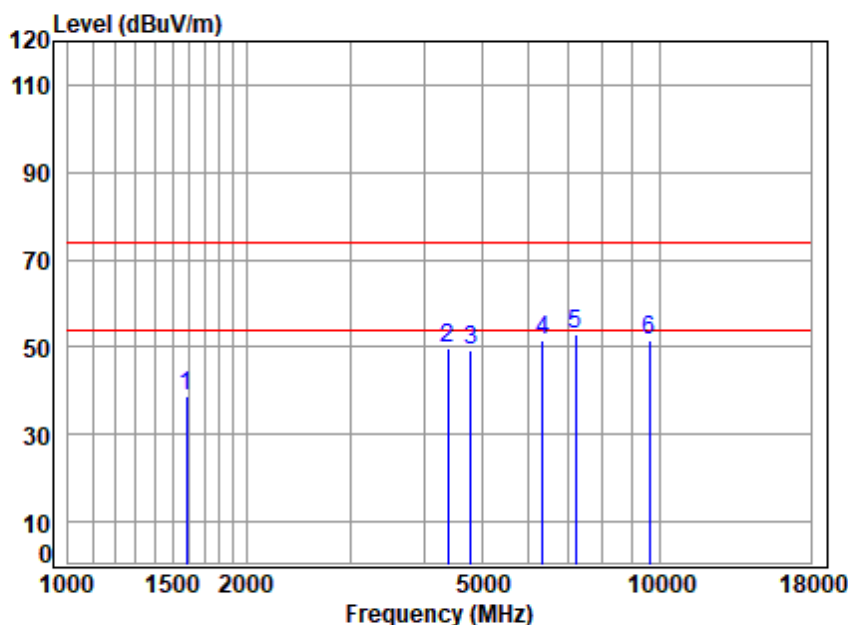


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03351AT\03352AT
Mode : 2402 TX RSE
: BLE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1511.833	4.08	26.85	38.39	45.61	38.15	74.00	-35.85	peak
2	4304.400	6.99	34.04	35.87	46.00	51.16	74.00	-22.84	peak
3	4804.000	7.31	34.32	35.52	43.47	49.58	74.00	-24.42	peak
4	6954.852	8.89	35.79	35.54	42.16	51.30	74.00	-22.70	peak
5 q	7206.000	9.18	35.70	35.79	44.02	53.11	74.00	-20.89	peak
6	9608.000	12.36	37.42	37.46	39.15	51.47	74.00	-22.53	peak



Test Mode: 04; Polarity: Vertical; Modulation:GFSK; Channel:Low

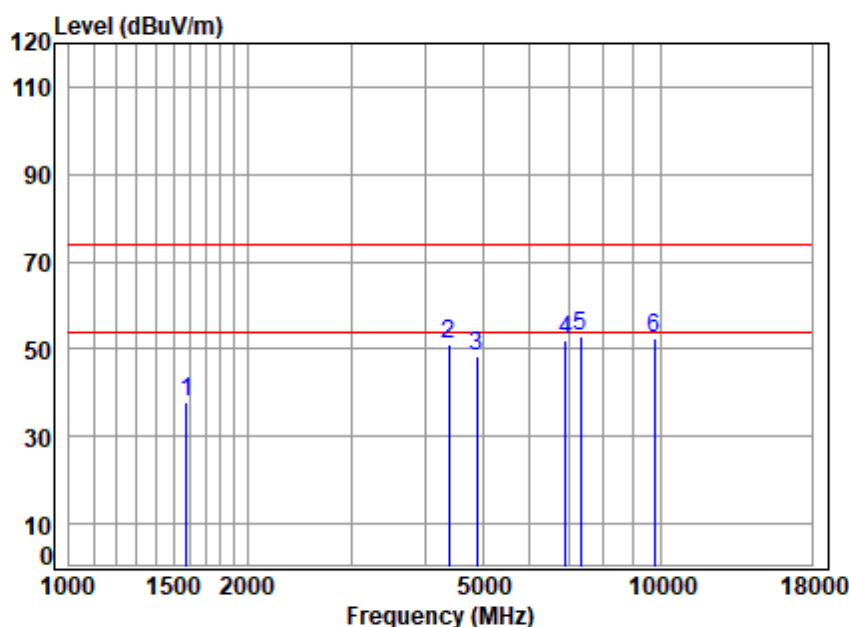


Site : chamber
Condition: 3m VERTICAL
Job No : 03351AT\03352AT
Mode : 2402 TX RSE
: BLE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1587.975	4.18	26.85	38.40	45.99	38.62	74.00	-35.38	peak
2	4392.376	7.05	34.74	35.80	43.74	49.73	74.00	-24.27	peak
3	4804.000	7.31	34.32	35.52	43.39	49.50	74.00	-24.50	peak
4	6340.436	8.44	34.92	35.14	43.47	51.69	74.00	-22.31	peak
5 q	7206.000	9.18	35.70	35.79	43.87	52.96	74.00	-21.04	peak
6	9608.000	12.36	37.42	37.46	39.41	51.73	74.00	-22.27	peak



Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; Channel:middle

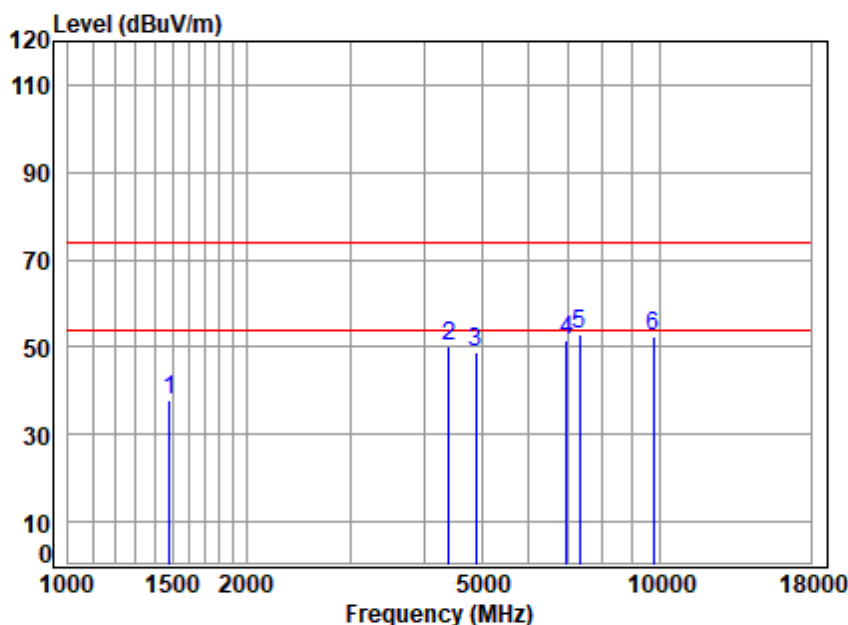


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03351AT\03352AT
Mode : 2440 TX RSE
: BLE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1578.822	4.17	26.88	38.40	45.43	38.08	74.00	-35.92	peak
2	4392.376	7.05	34.74	35.80	45.23	51.22	74.00	-22.78	peak
3	4880.000	7.36	34.62	35.47	42.01	48.52	74.00	-25.48	peak
4	6914.763	8.86	35.66	35.52	42.98	51.98	74.00	-22.02	peak
5 q	7320.000	9.32	35.70	35.90	43.83	52.95	74.00	-21.05	peak
6	9760.000	12.47	37.38	37.43	40.10	52.52	74.00	-21.48	peak



Test Mode: 04; Polarity: Vertical; Modulation:GFSK; Channel:middle

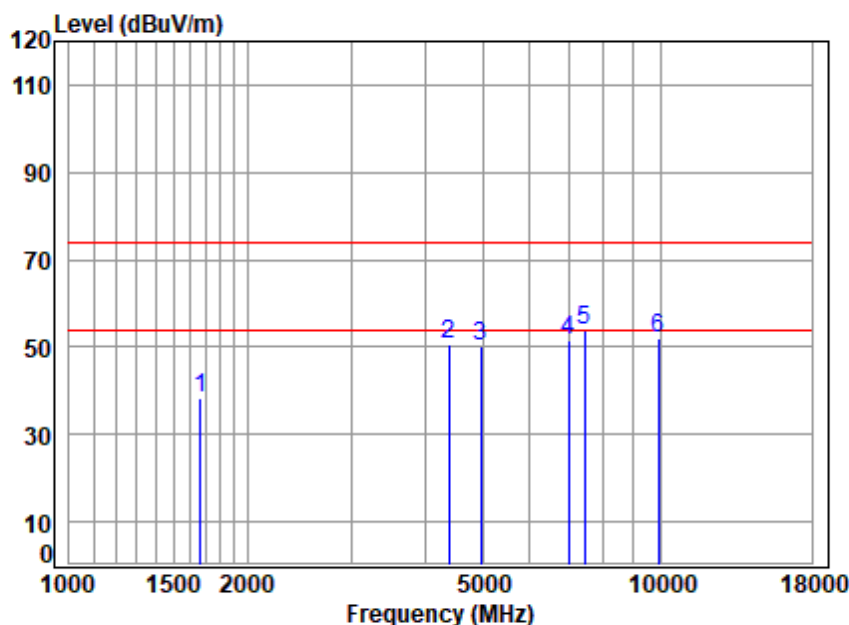


Site : chamber
Condition: 3m VERTICAL
Job No : 03351AT\03352AT
Mode : 2440 TX RSE
: BLE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1481.553	4.03	26.28	38.39	45.82	37.74	74.00	-36.26	peak
2	4405.090	7.06	34.74	35.79	44.08	50.09	74.00	-23.91	peak
3	4880.000	7.36	34.62	35.47	42.15	48.66	74.00	-25.34	peak
4	6954.852	8.89	35.79	35.54	42.26	51.40	74.00	-22.60	peak
5 q	7320.000	9.32	35.70	35.90	43.59	52.71	74.00	-21.29	peak
6	9760.000	12.47	37.38	37.43	40.22	52.64	74.00	-21.36	peak



Test Mode: 04; Polarity: Horizontal; Modulation:GFSK; Channel:High

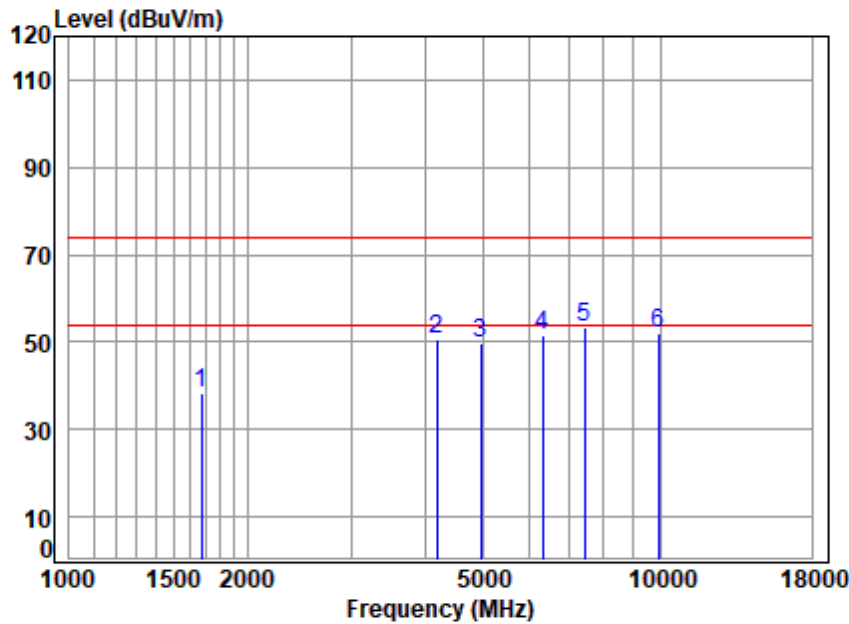


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03351AT\03352AT
Mode : 2480 TX RSE
: BLE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1667.951	4.29	26.26	38.41	46.25	38.39	74.00	-35.61	peak
2	4392.376	7.05	34.74	35.80	44.56	50.55	74.00	-23.45	peak
3	4960.000	7.41	34.56	35.42	43.57	50.12	74.00	-23.88	peak
4	6974.982	8.90	35.75	35.55	42.40	51.50	74.00	-22.50	peak
5 q	7440.000	9.46	35.96	36.02	44.37	53.77	74.00	-20.23	peak
6	9920.000	12.58	37.30	37.39	39.34	51.83	74.00	-22.17	peak



Test Mode: 04; Polarity: Vertical; Modulation:GFSK; Channel:High

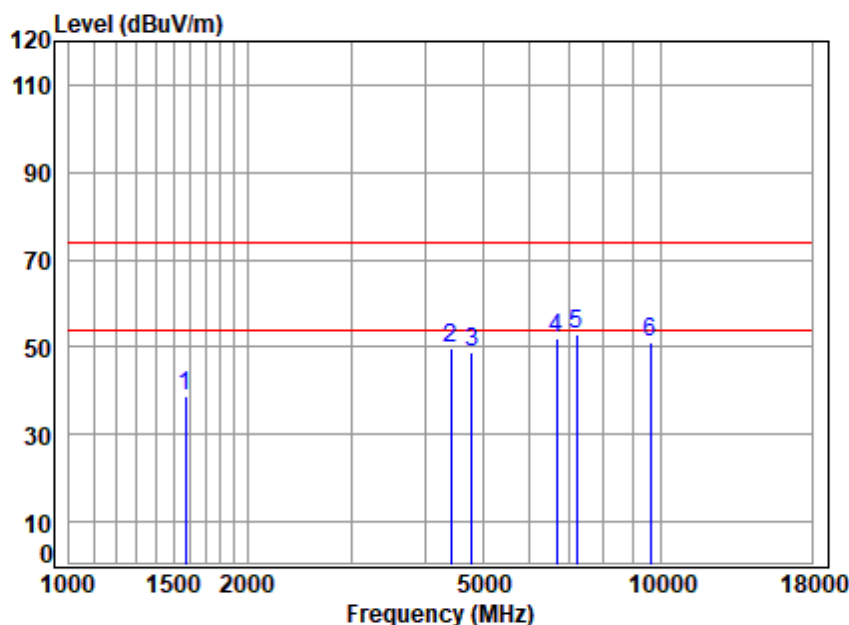


Site : chamber
Condition: 3m VERTICAL
Job No : 03351AT\03352AT
Mode : 2480 TX RSE
: BLE

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1672.779	4.30	26.25	38.41	46.01	38.15	74.00	-35.85	peak
2	4181.768	6.91	33.80	35.96	45.72	50.47	74.00	-23.53	peak
3	4960.000	7.41	34.56	35.42	43.14	49.69	74.00	-24.31	peak
4	6322.136	8.42	34.96	35.13	43.14	51.39	74.00	-22.61	peak
5 q	7440.000	9.46	35.96	36.02	43.76	53.16	74.00	-20.84	peak
6	9920.000	12.58	37.30	37.39	39.66	52.15	74.00	-21.85	peak



Test Mode: 06; Polarity: Horizontal; Modulation:GFSK; Channel:Low

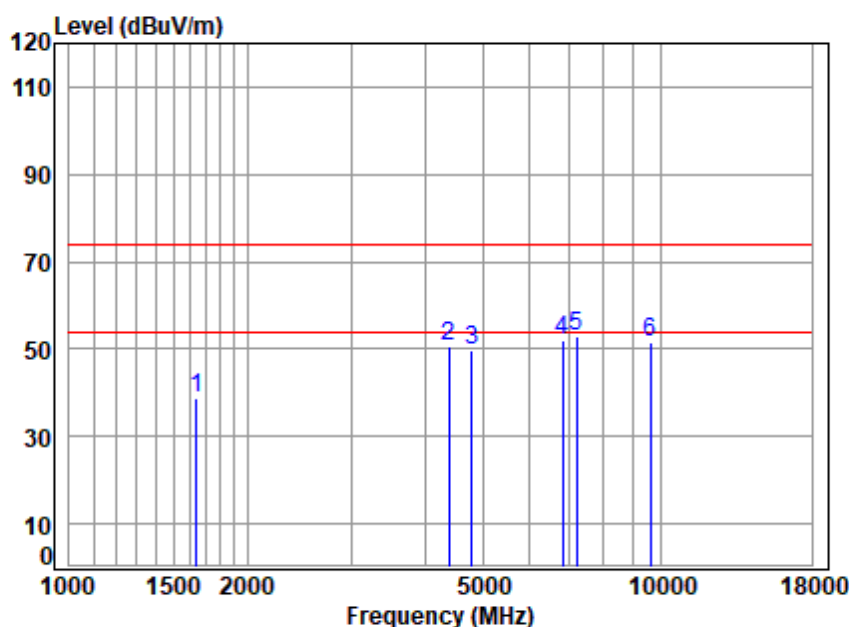


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03351AT\03352AT
Mode : 2402 TX RSE
: BLE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1574.265	4.17	26.90	38.40	46.13	38.80	74.00	-35.20	peak
2	4417.841	7.07	34.59	35.78	44.04	49.92	74.00	-24.08	peak
3	4804.000	7.31	34.32	35.52	42.57	48.68	74.00	-25.32	peak
4	6679.040	8.69	35.20	35.37	43.29	51.81	74.00	-22.19	peak
5 q	7206.000	9.18	35.70	35.79	43.64	52.73	74.00	-21.27	peak
6	9608.000	12.36	37.42	37.46	38.69	51.01	74.00	-22.99	peak



Test Mode: 06; Polarity: Vertical; Modulation: GFSK; Channel: Low

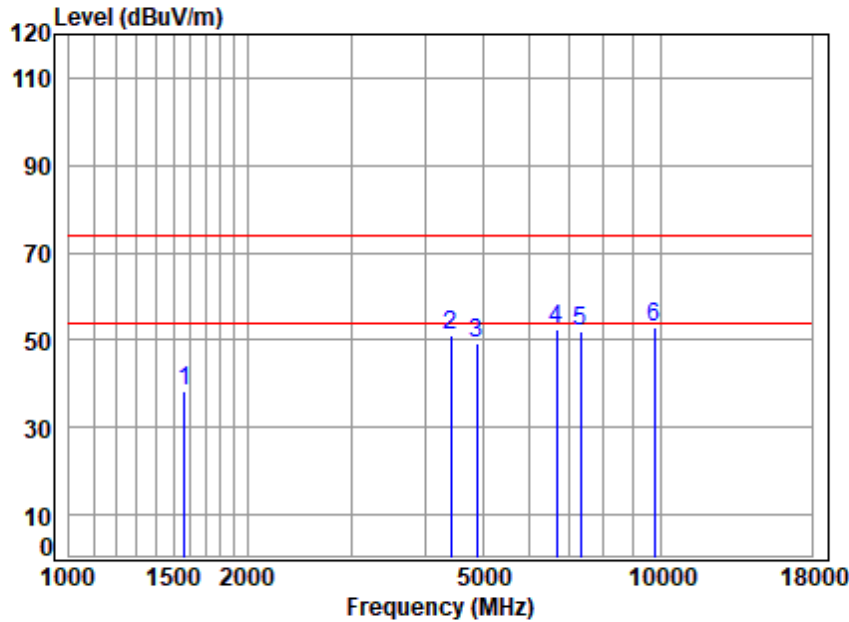


Site : chamber
Condition: 3m VERTICAL
Job No : 03351AT\03352AT
Mode : 2402 TX RSE
: BLE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1644.019	4.26	26.36	38.41	46.72	38.93	74.00	-35.07	peak
2	4379.699	7.04	34.64	35.81	44.94	50.81	74.00	-23.19	peak
3	4804.000	7.31	34.32	35.52	43.52	49.63	74.00	-24.37	peak
4	6815.551	8.79	35.36	35.45	43.15	51.85	74.00	-22.15	peak
5 q	7206.000	9.18	35.70	35.79	44.00	53.09	74.00	-20.91	peak
6	9608.000	12.36	37.42	37.46	39.22	51.54	74.00	-22.46	peak



Test Mode: 06; Polarity: Horizontal; Modulation:GFSK; Channel:middle

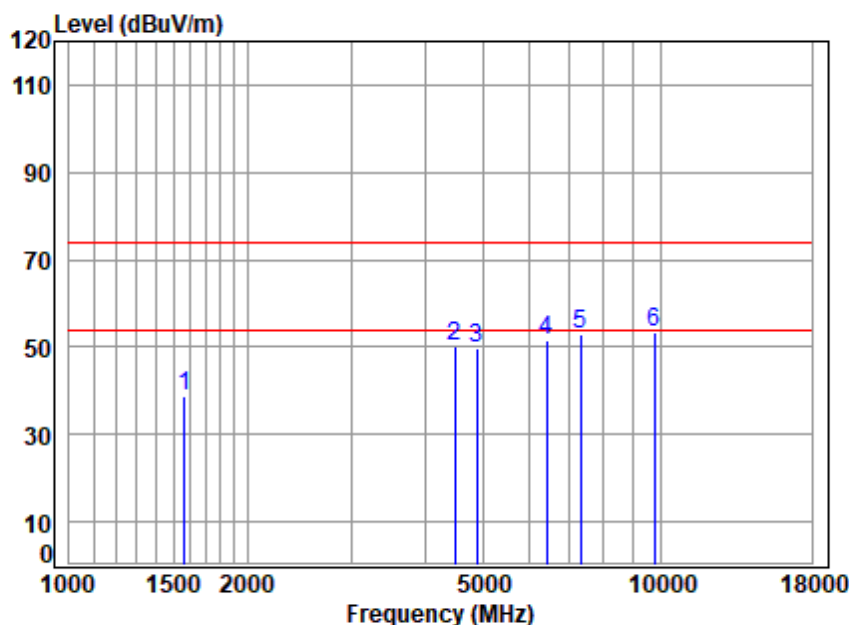


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03351AT\03352AT
Mode : 2440 TX RSE
: BLE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1565.191	4.15	26.94	38.40	45.57	38.26	74.00	-35.74	peak
2	4417.841	7.07	34.59	35.78	45.10	50.98	74.00	-23.02	peak
3	4880.000	7.36	34.62	35.47	42.94	49.45	74.00	-24.55	peak
4	6679.040	8.69	35.20	35.37	43.83	52.35	74.00	-21.65	peak
5	7320.000	9.32	35.70	35.90	43.12	52.24	74.00	-21.76	peak
6 q	9760.000	12.47	37.38	37.43	40.38	52.80	74.00	-21.20	peak



Test Mode: 06; Polarity: Vertical; Modulation:GFSK; Channel:middle

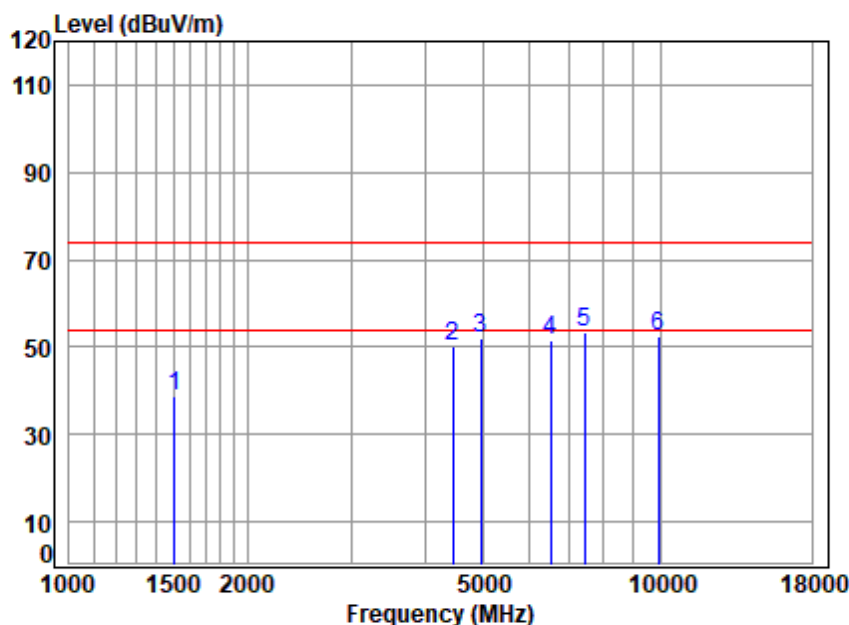


Site : chamber
Condition: 3m VERTICAL
Job No : 03351AT\03352AT
Mode : 2440 TX RSE
: BLE

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1565.191	4.15	26.94	38.40	46.25	38.94	74.00	-35.06	peak
2	4482.150	7.11	33.81	35.74	45.16	50.34	74.00	-23.66	peak
3	4880.000	7.36	34.62	35.47	43.26	49.77	74.00	-24.23	peak
4	6414.167	8.49	35.29	35.19	43.01	51.60	74.00	-22.40	peak
5	7320.000	9.32	35.70	35.90	43.67	52.79	74.00	-21.21	peak
6 q	9760.000	12.47	37.38	37.43	41.14	53.56	74.00	-20.44	peak



Test Mode: 06; Polarity: Horizontal; Modulation:GFSK; Channel:High

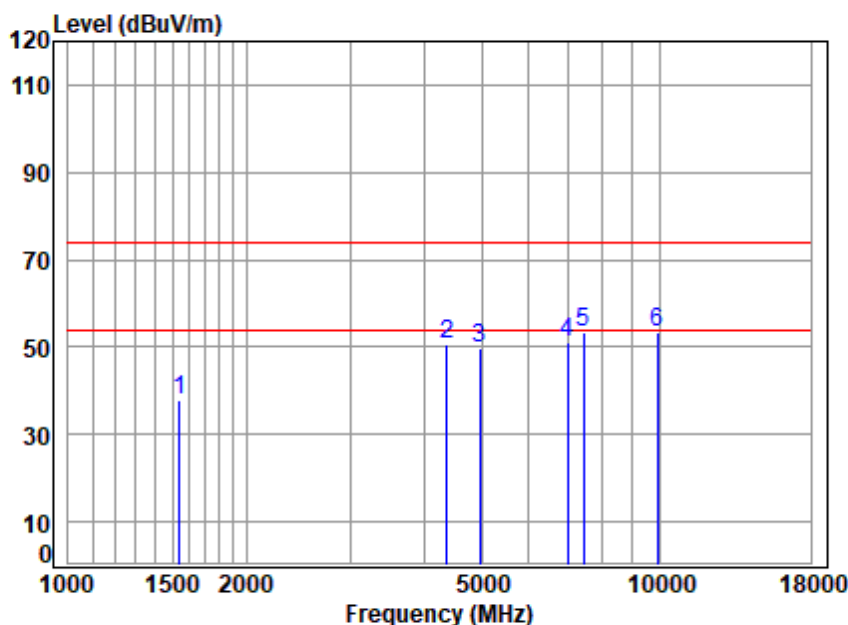


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03351AT\03352AT
Mode : 2480 TX RSE
: BLE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1507.470	4.07	26.83	38.39	46.10	38.61	74.00	-35.39	peak
2	4456.315	7.09	34.12	35.76	44.81	50.26	74.00	-23.74	peak
3	4960.000	7.41	34.56	35.42	45.62	52.17	74.00	-21.83	peak
4	6507.536	8.57	35.58	35.25	42.78	51.68	74.00	-22.32	peak
5 q	7440.000	9.46	35.96	36.02	43.91	53.31	74.00	-20.69	peak
6	9920.000	12.58	37.30	37.39	39.92	52.41	74.00	-21.59	peak



Test Mode: 06; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03351AT\03352AT
Mode : 2480 TX RSE
: BLE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1542.733	4.12	26.97	38.39	45.21	37.91	74.00	-36.09	peak
2	4367.058	7.04	34.54	35.82	44.72	50.48	74.00	-23.52	peak
3	4960.000	7.41	34.56	35.42	43.11	49.66	74.00	-24.34	peak
4	6974.982	8.90	35.75	35.55	41.88	50.98	74.00	-23.02	peak
5 q	7440.000	9.46	35.96	36.02	44.17	53.57	74.00	-20.43	peak
6	9920.000	12.58	37.30	37.39	40.89	53.38	74.00	-20.62	peak



8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2310003351AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2310003351AT

10 Appendix

For right earbud:

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

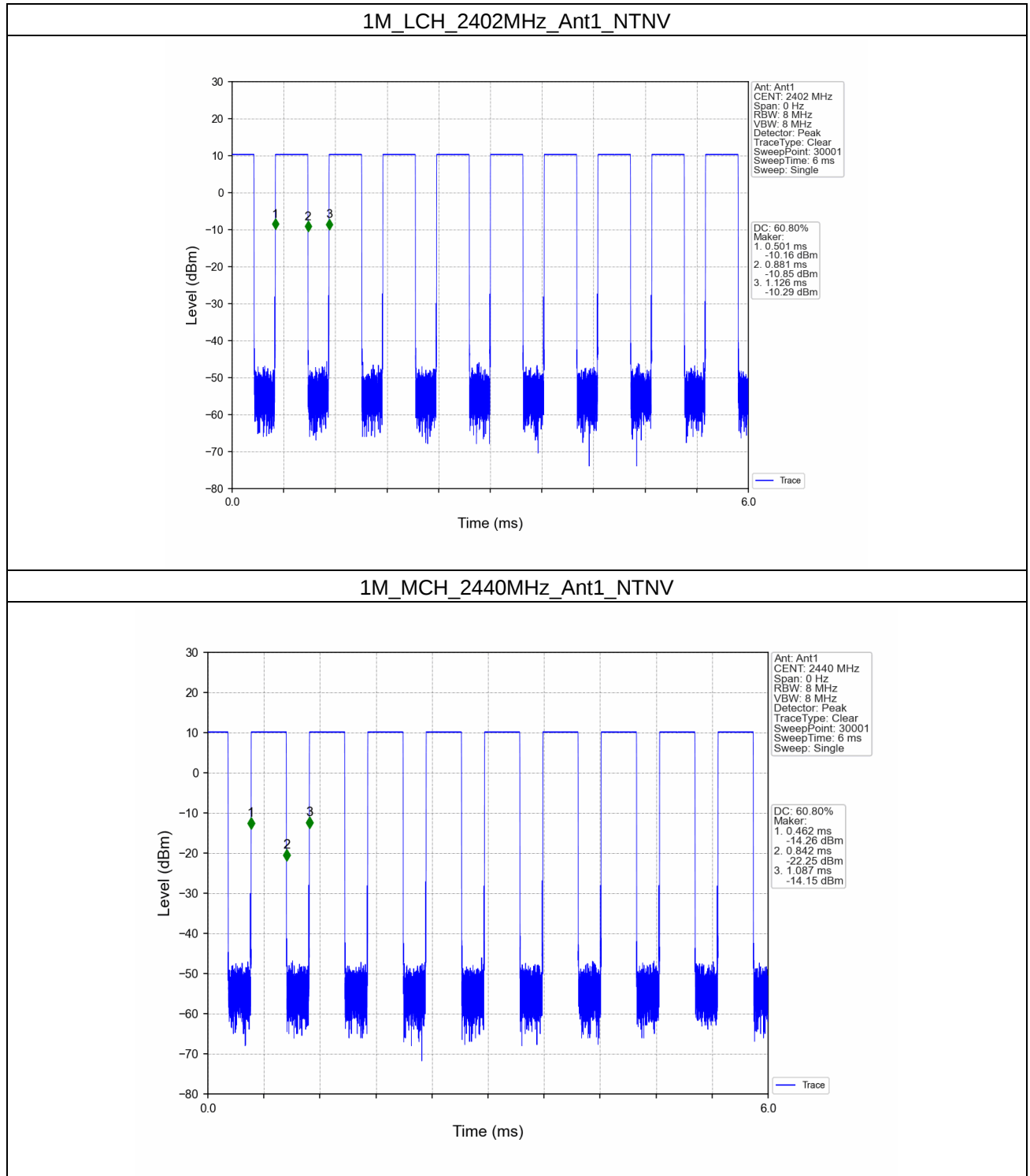
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.380	0.625	60.80	2.16	0.00
		2440	0.380	0.625	60.80	2.16	0.00
		2480	0.380	0.625	60.80	2.16	0.00



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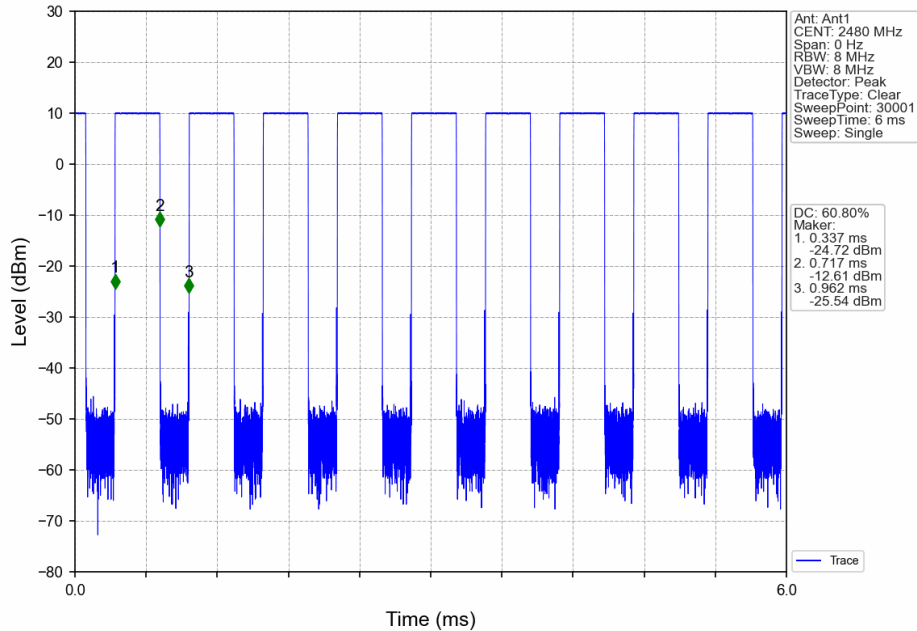
1.1.2 Test Graph



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1M_HCH_2480MHz_Ant1_NTNV



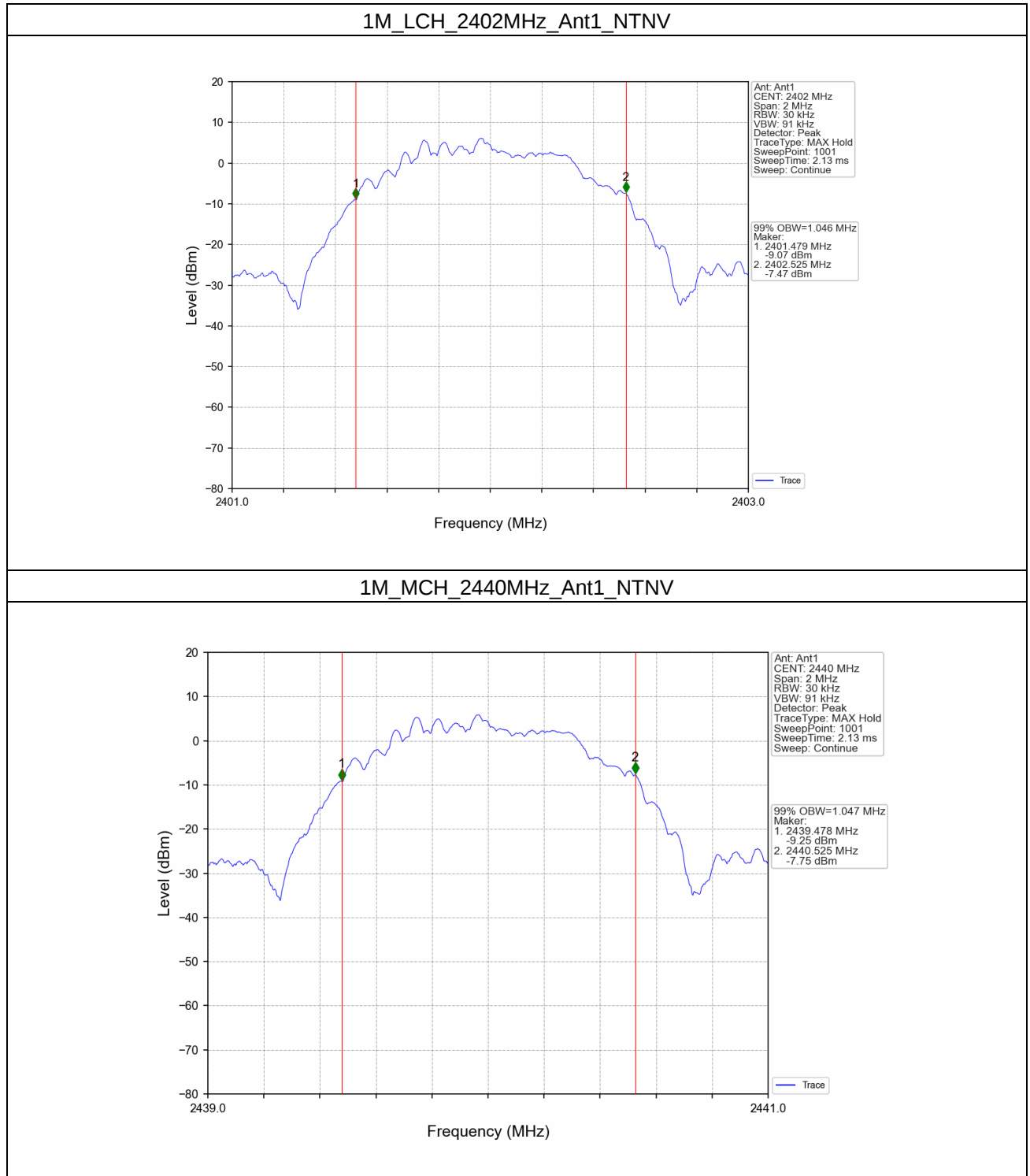
2. Bandwidth

2.1 OBW

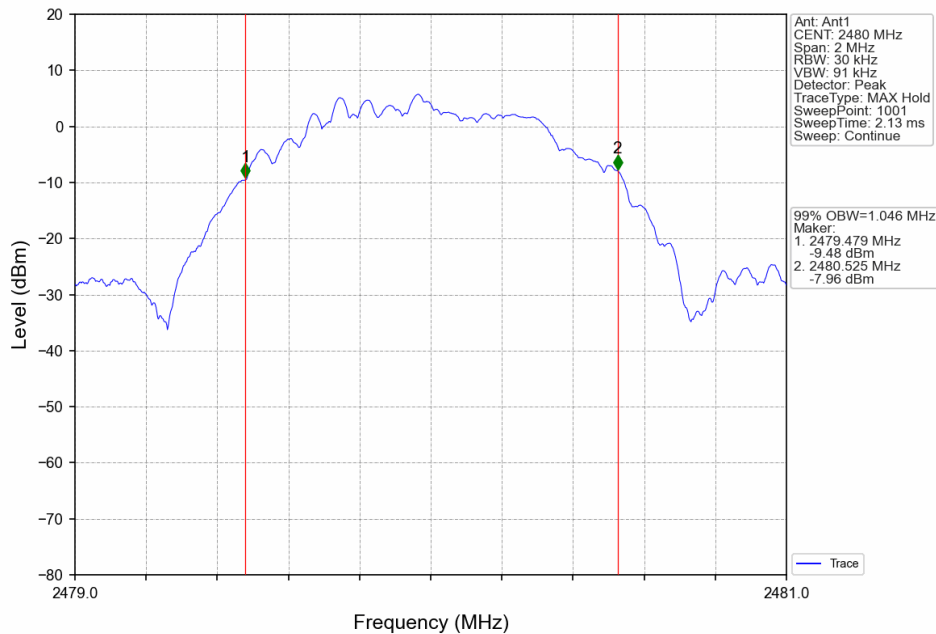
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	1.046	/	Pass
		2440	1	1.047	/	Pass
		2480	1	1.046	/	Pass

2.1.2 Test Graph



1M_HCH_2480MHz_Ant1_NTNV



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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.716	≥ 0.5	Pass
		2440	1	0.714	≥ 0.5	Pass
		2480	1	0.721	≥ 0.5	Pass

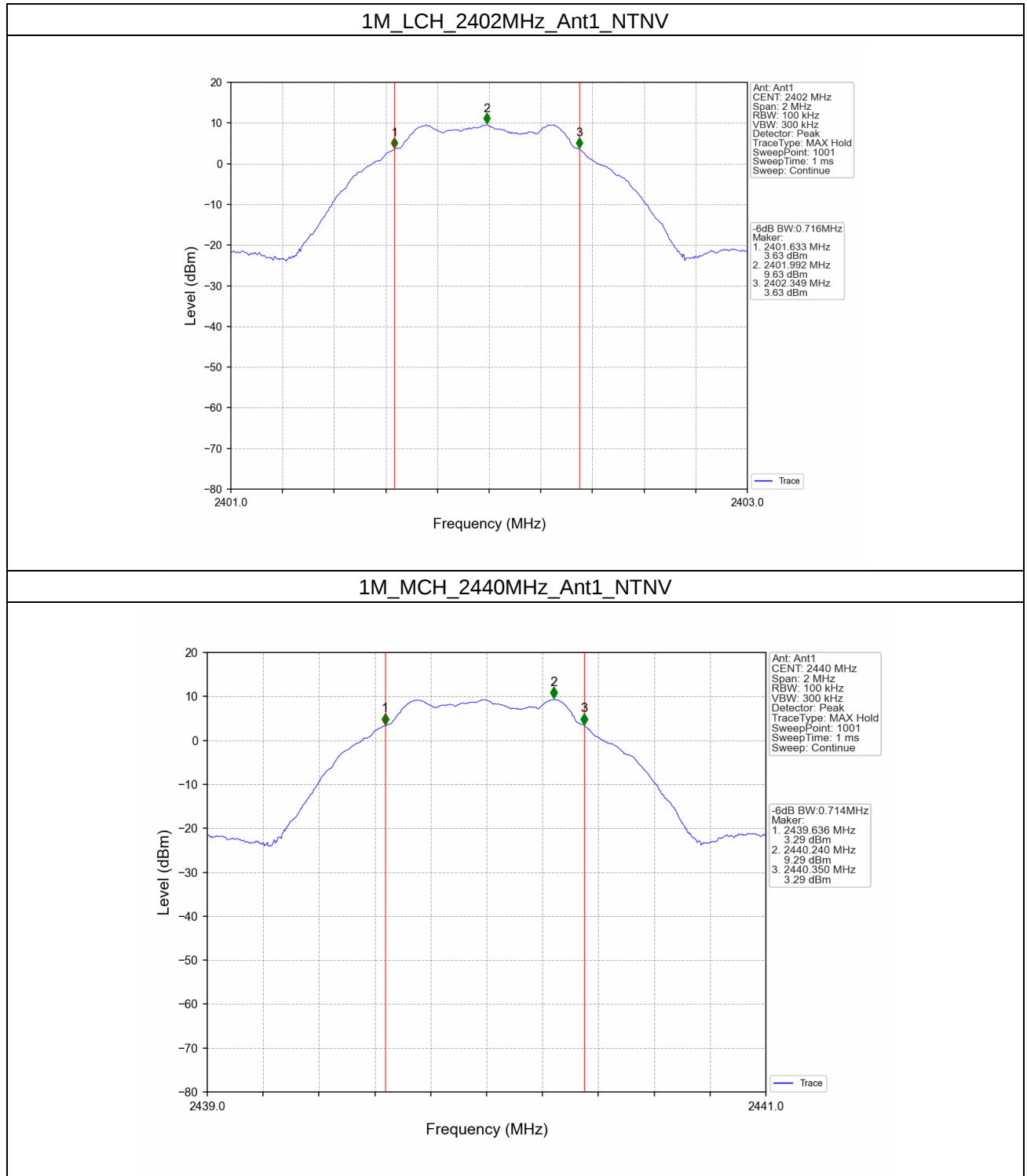


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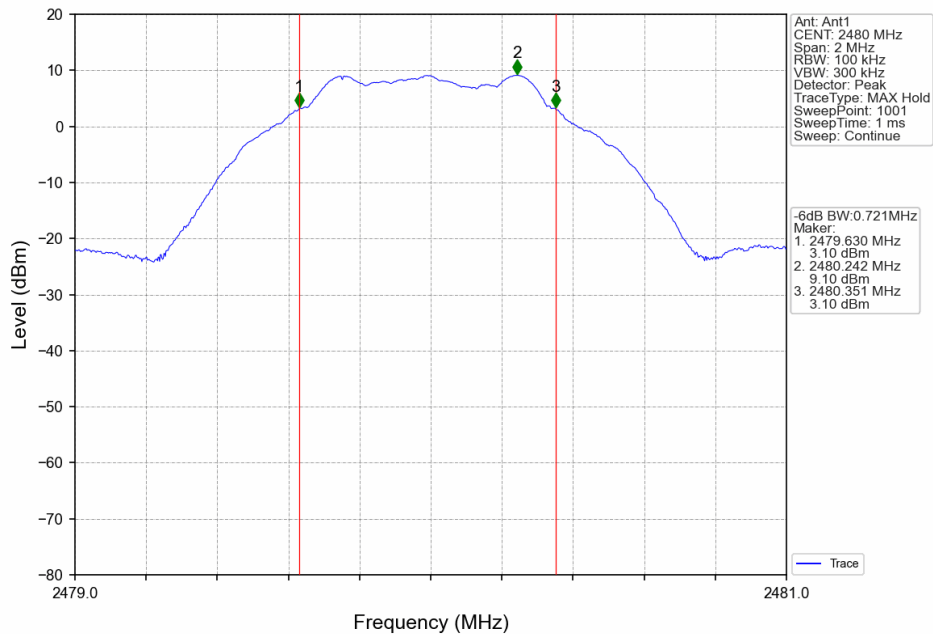
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2.2.2 Test Graph



1M_HCH_2480MHz_Ant1_NTNV



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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	10.55	<=30	Pass
		2440	10.17	<=30	Pass
		2480	9.98	<=30	Pass
Note1: Antenna Gain: Ant1: 0.79dBi;					



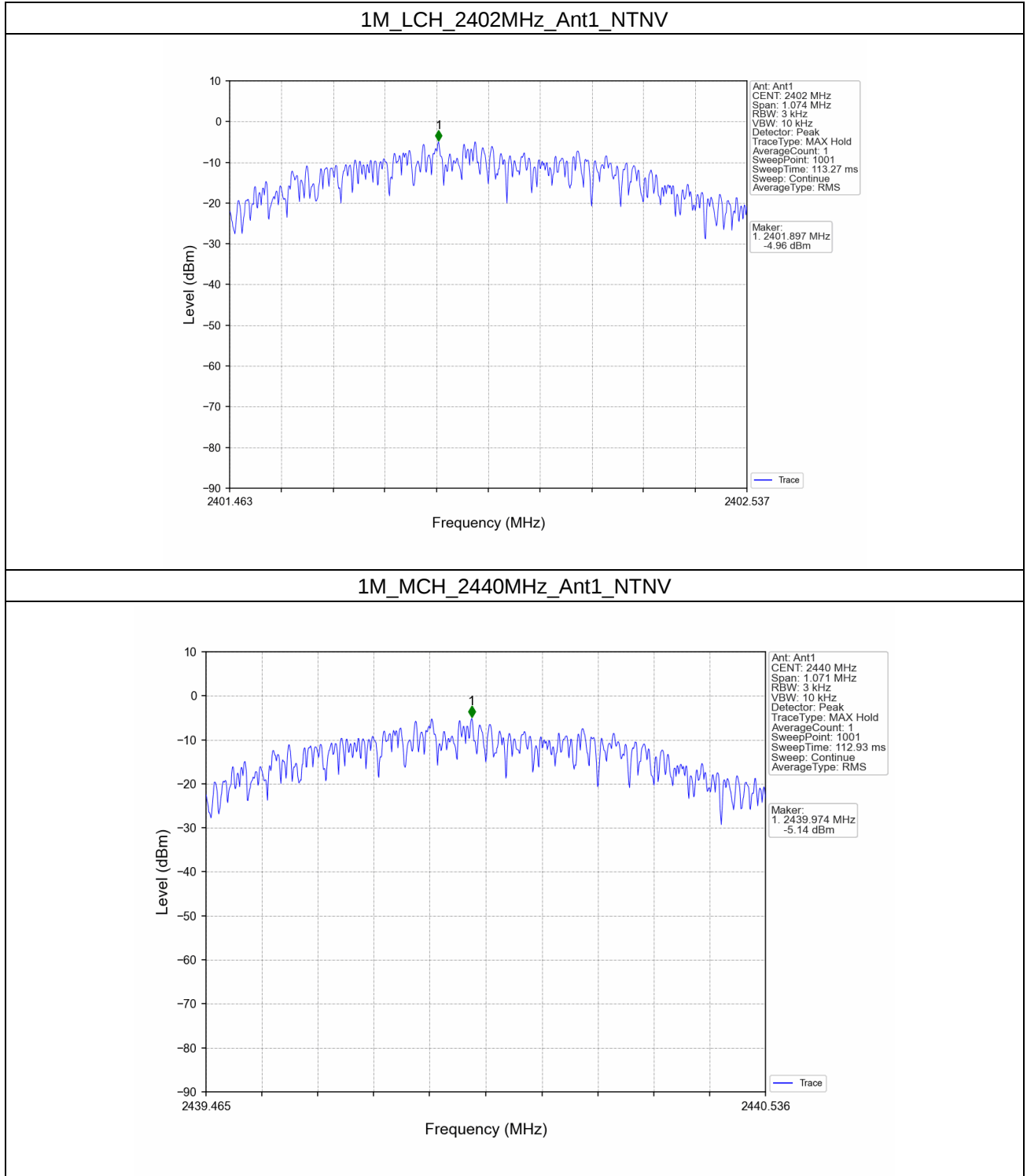
4. Maximum Power Spectral Density

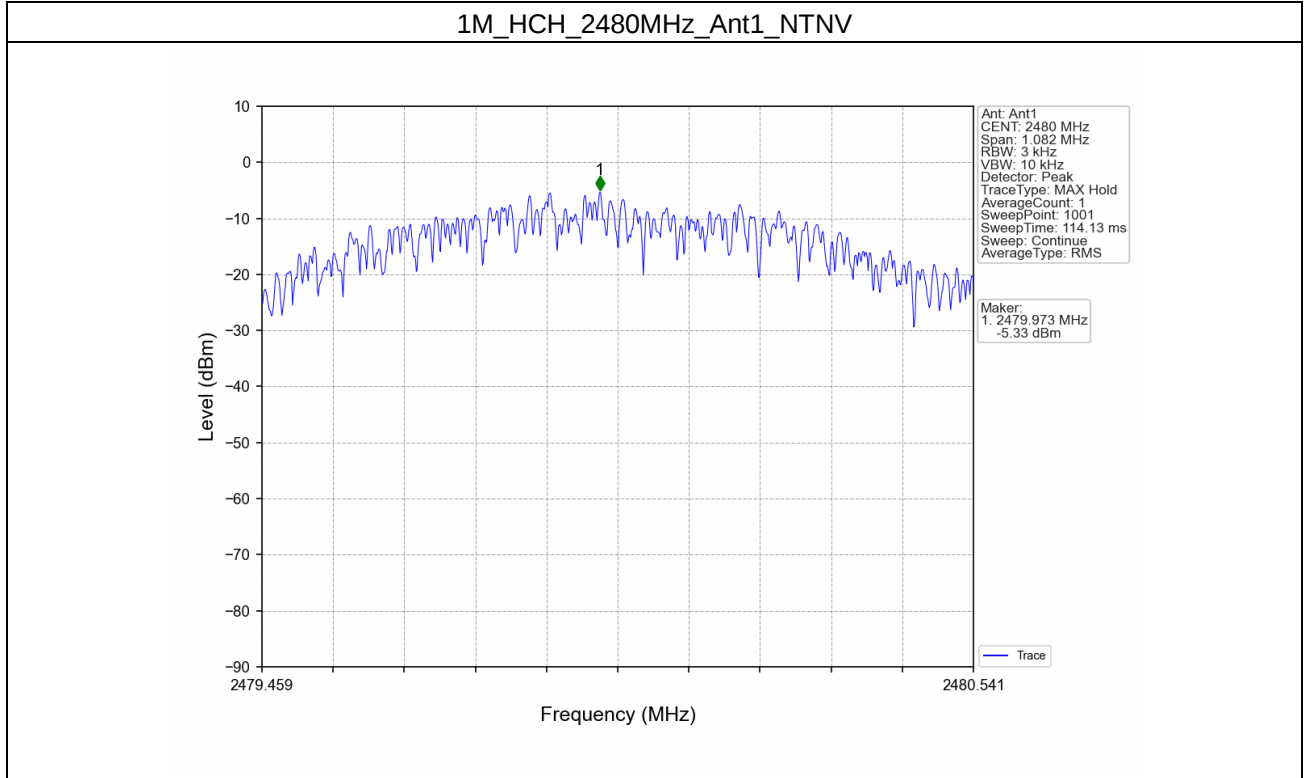
4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-4.96	<=8	Pass
		2440	-5.14	<=8	Pass
		2480	-5.33	<=8	Pass
Note1: Antenna Gain: Ant1: 0.79dBi;					

4.1.2 Test Graph





5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

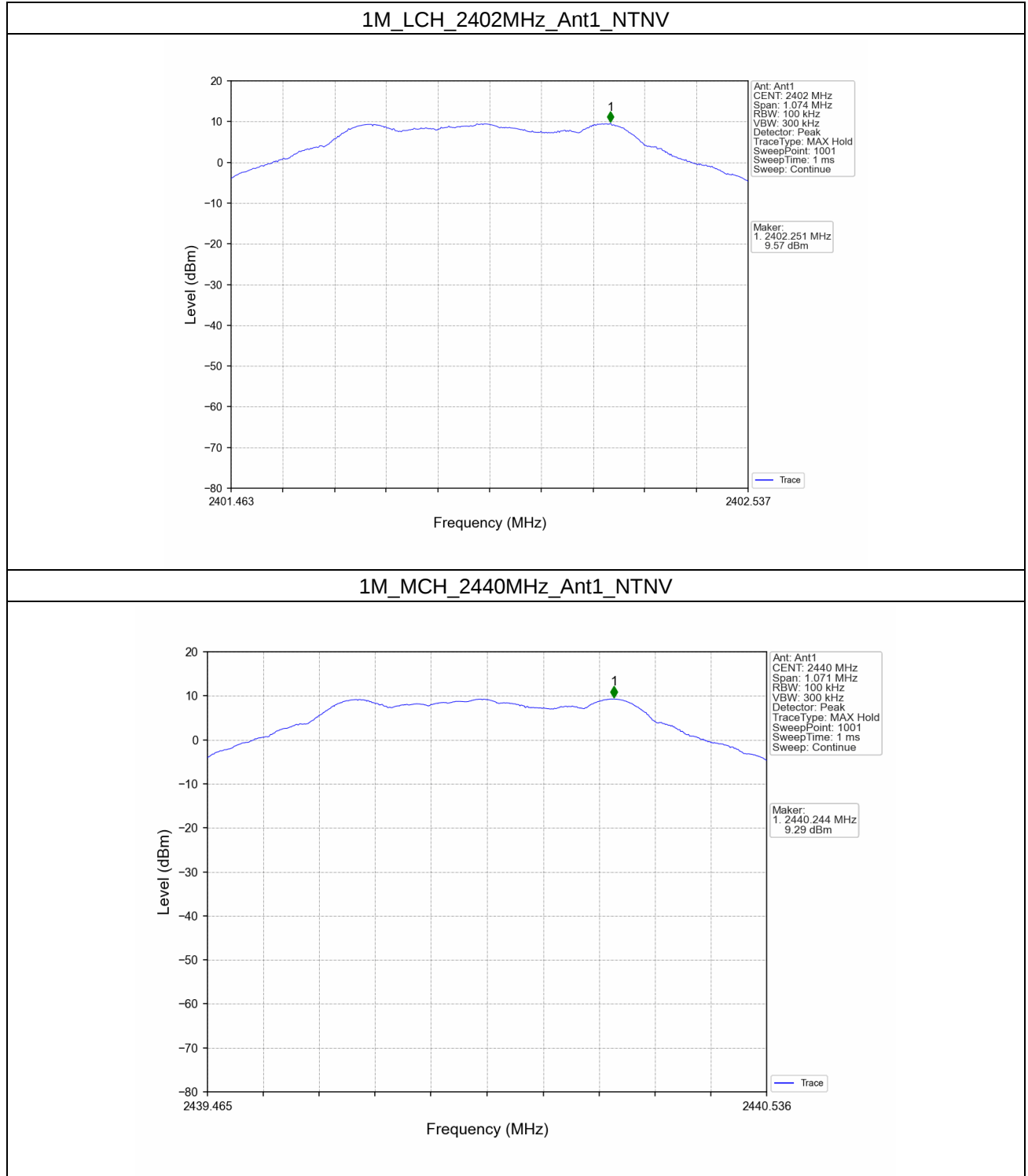
5.1.1 Test Result

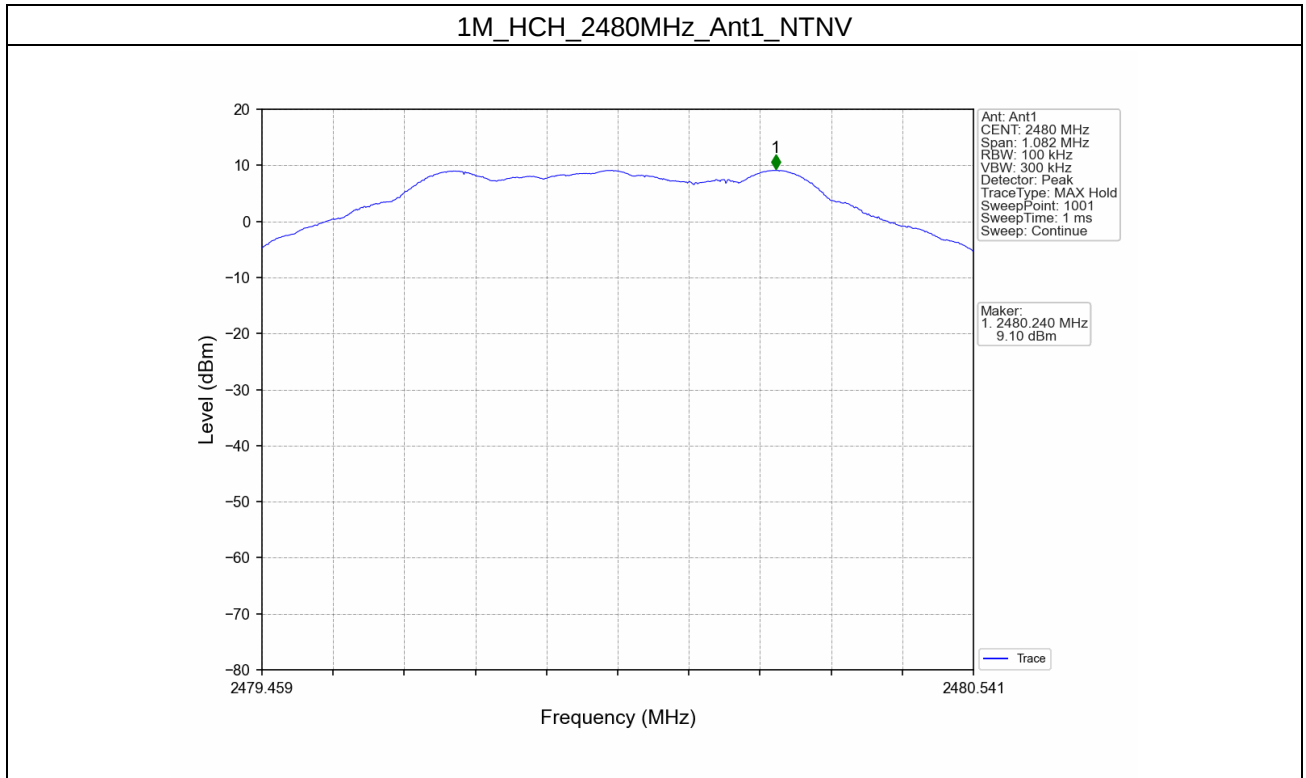
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	9.57
		2440	1	9.29
		2480	1	9.10

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



5.1.2 Test Graph





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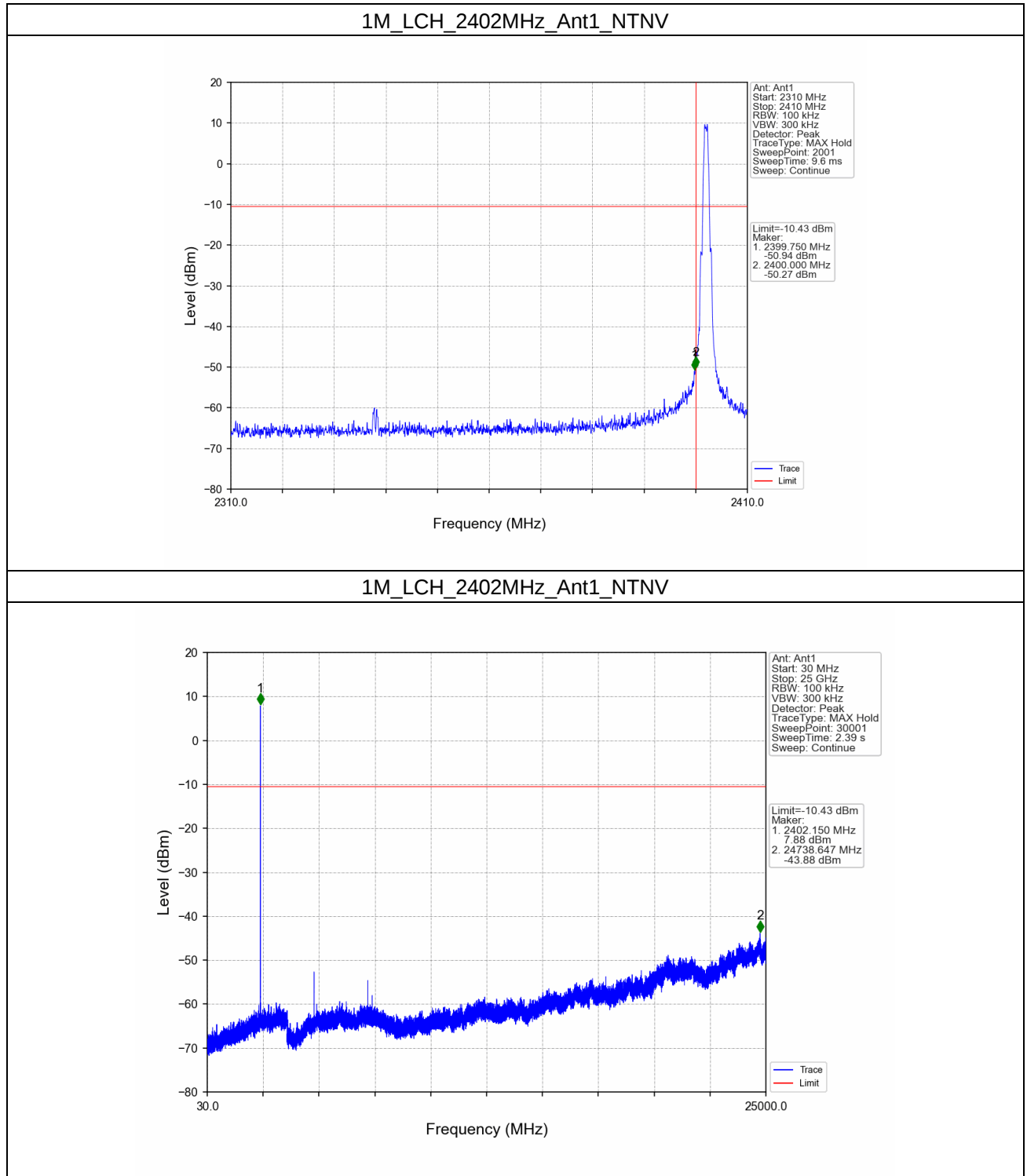
5.2 CSE

5.2.1 Test Result

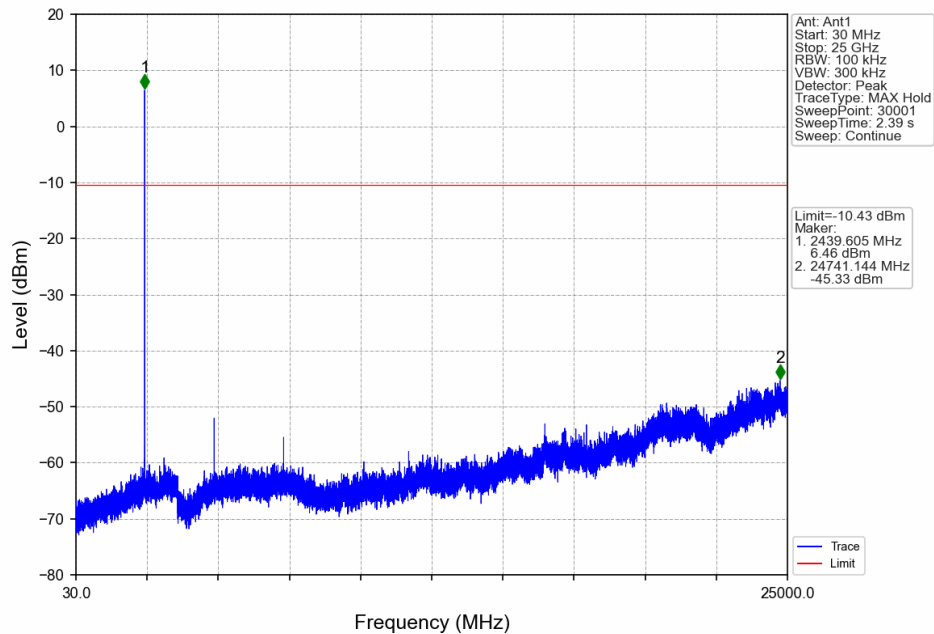
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	9.57	-10.43	Pass
		2440	1	9.57	-10.43	Pass
		2480	1	9.57	-10.43	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

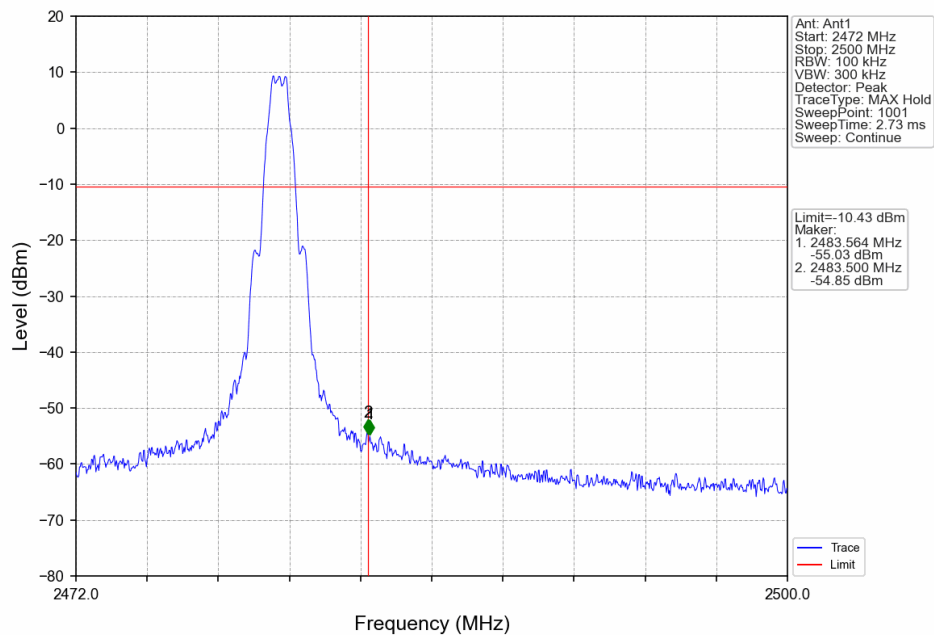
5.2.2 Test Graph



1M_MCH_2440MHz_Ant1_NTNV



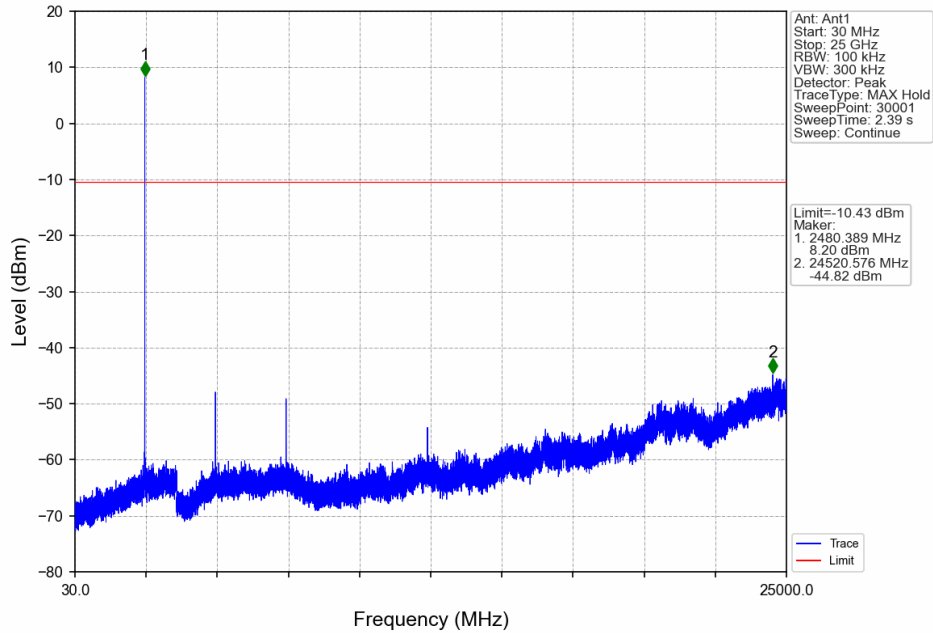
1M_HCH_2480MHz_Ant1_NTNV



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For right earbud:

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.380	0.625	60.80	2.16	0.00
		2440	0.380	0.625	60.80	2.16	0.00
		2480	0.380	0.625	60.80	2.16	0.00



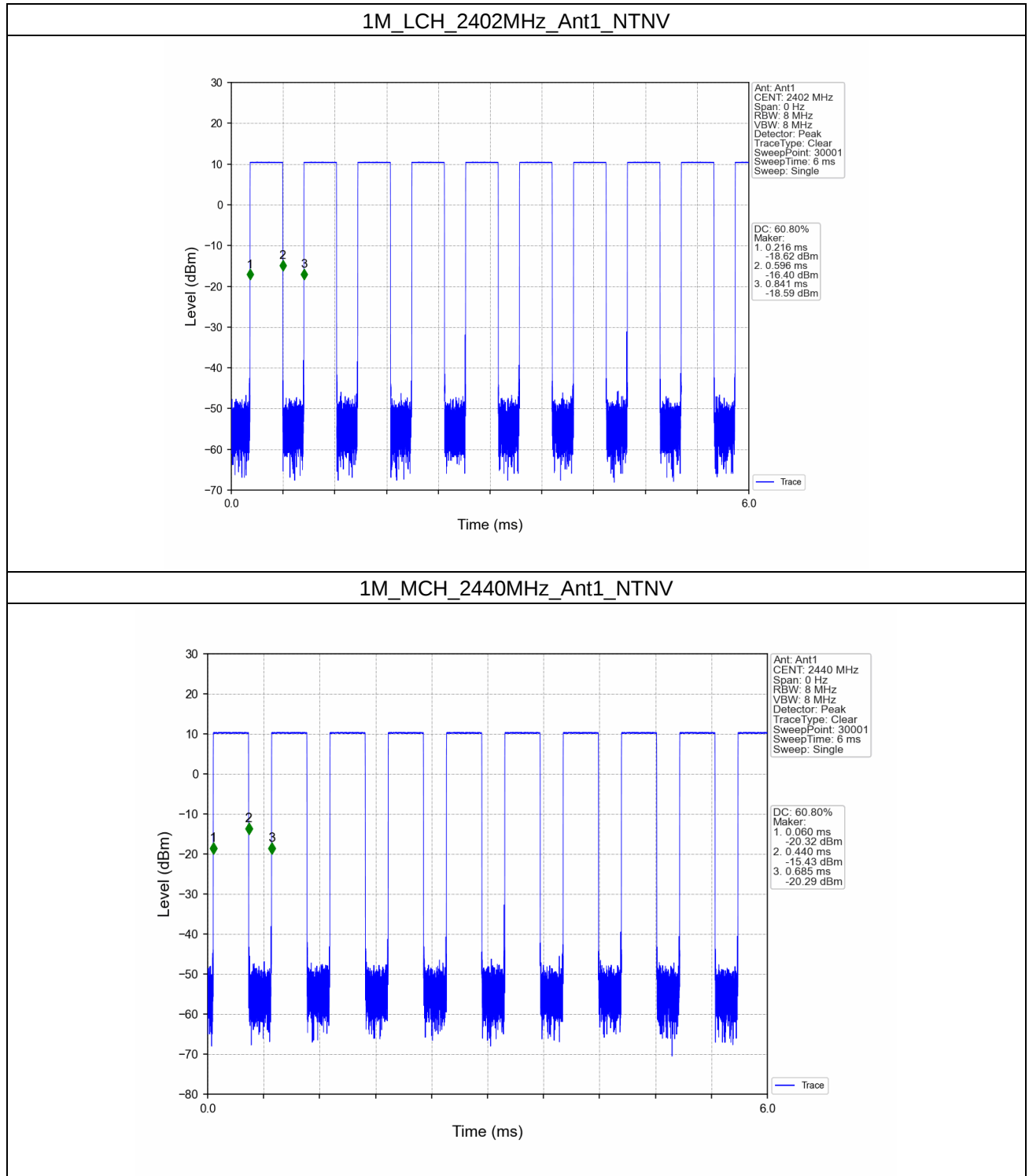
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1.1.2 Test Graph



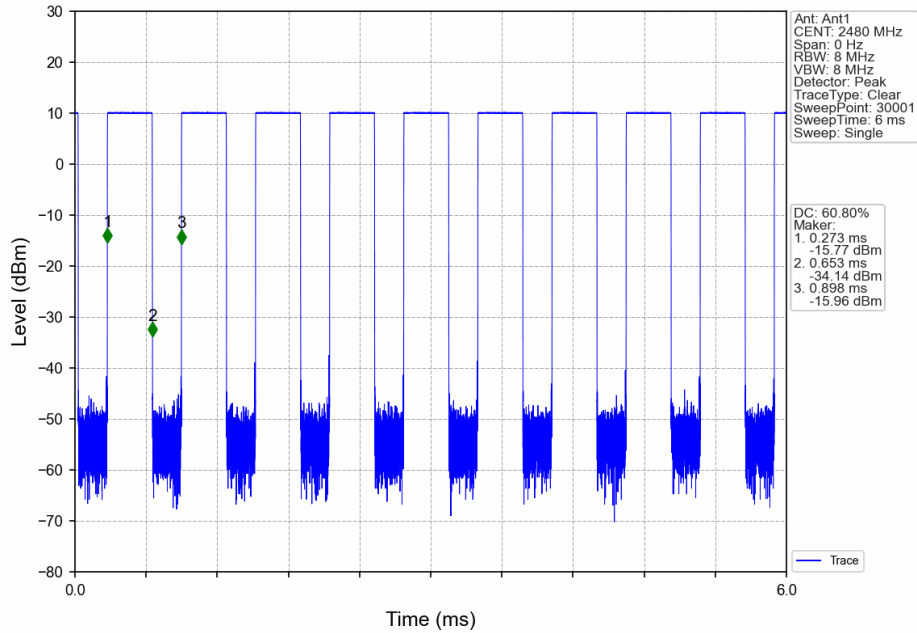
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1M_HCH_2480MHz_Ant1_NTNV



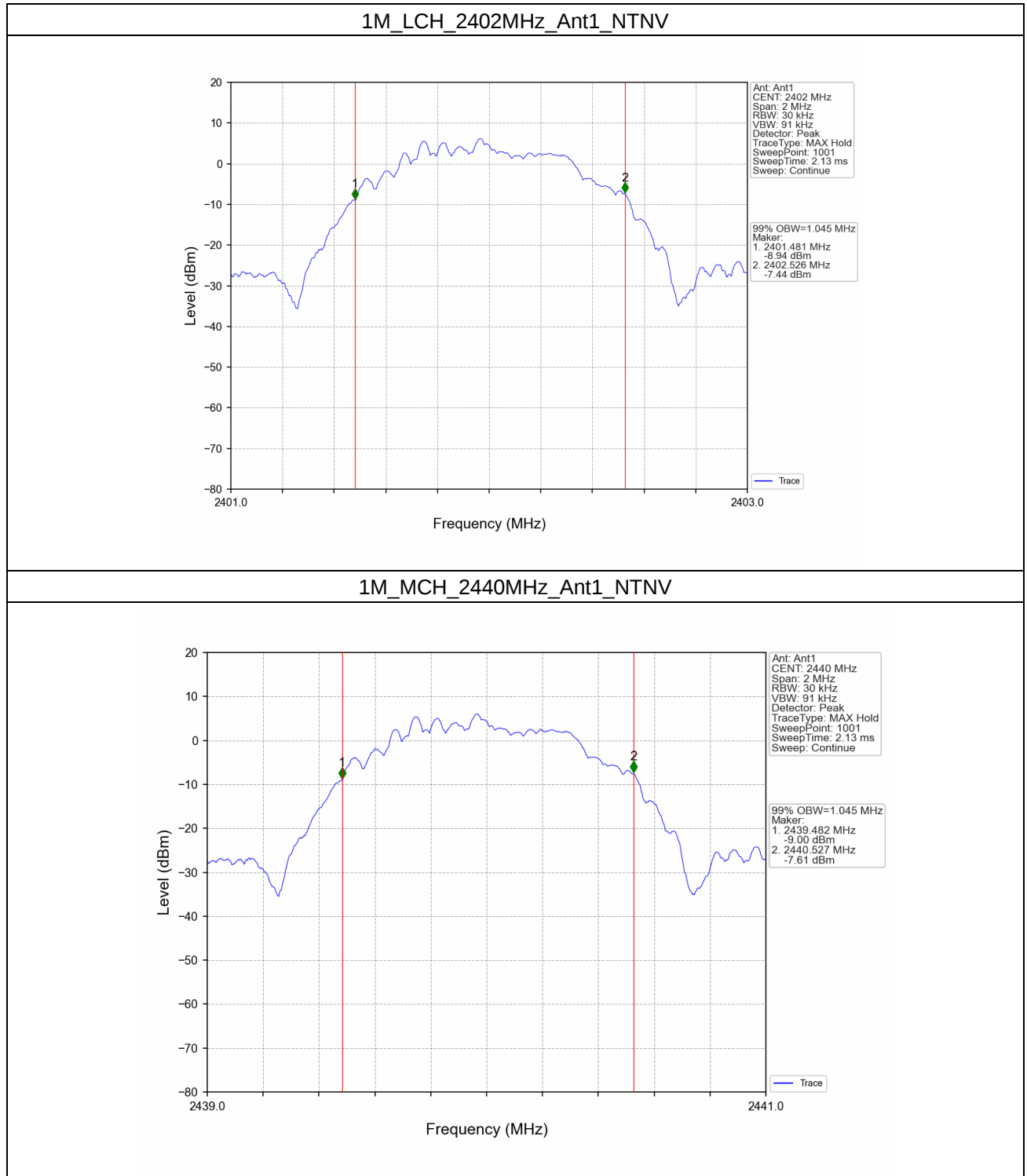
2. Bandwidth

2.1 OBW

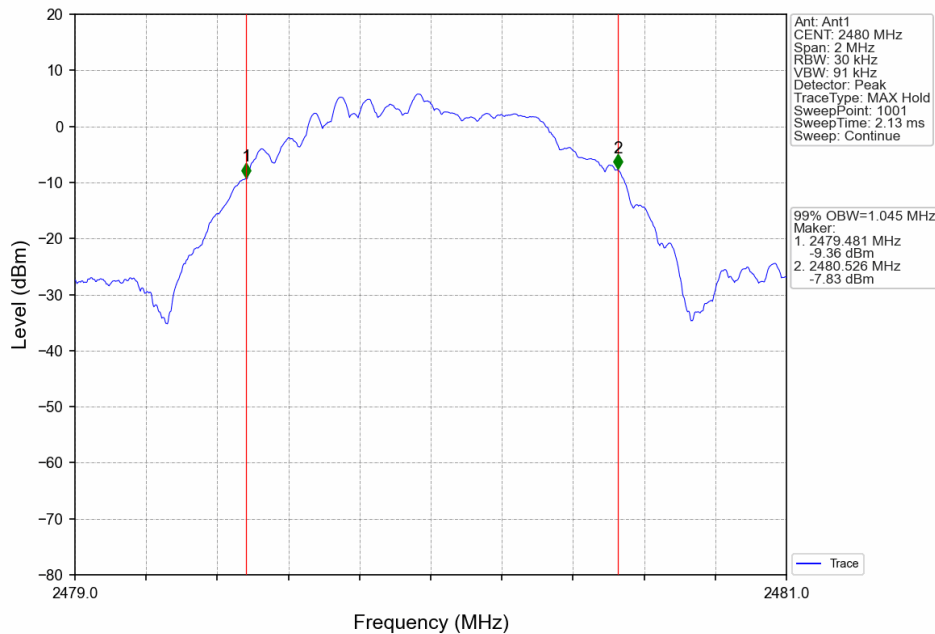
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	1.045	/	Pass
		2440	1	1.045	/	Pass
		2480	1	1.045	/	Pass

2.1.2 Test Graph



1M_HCH_2480MHz_Ant1_NTNV



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231000335103

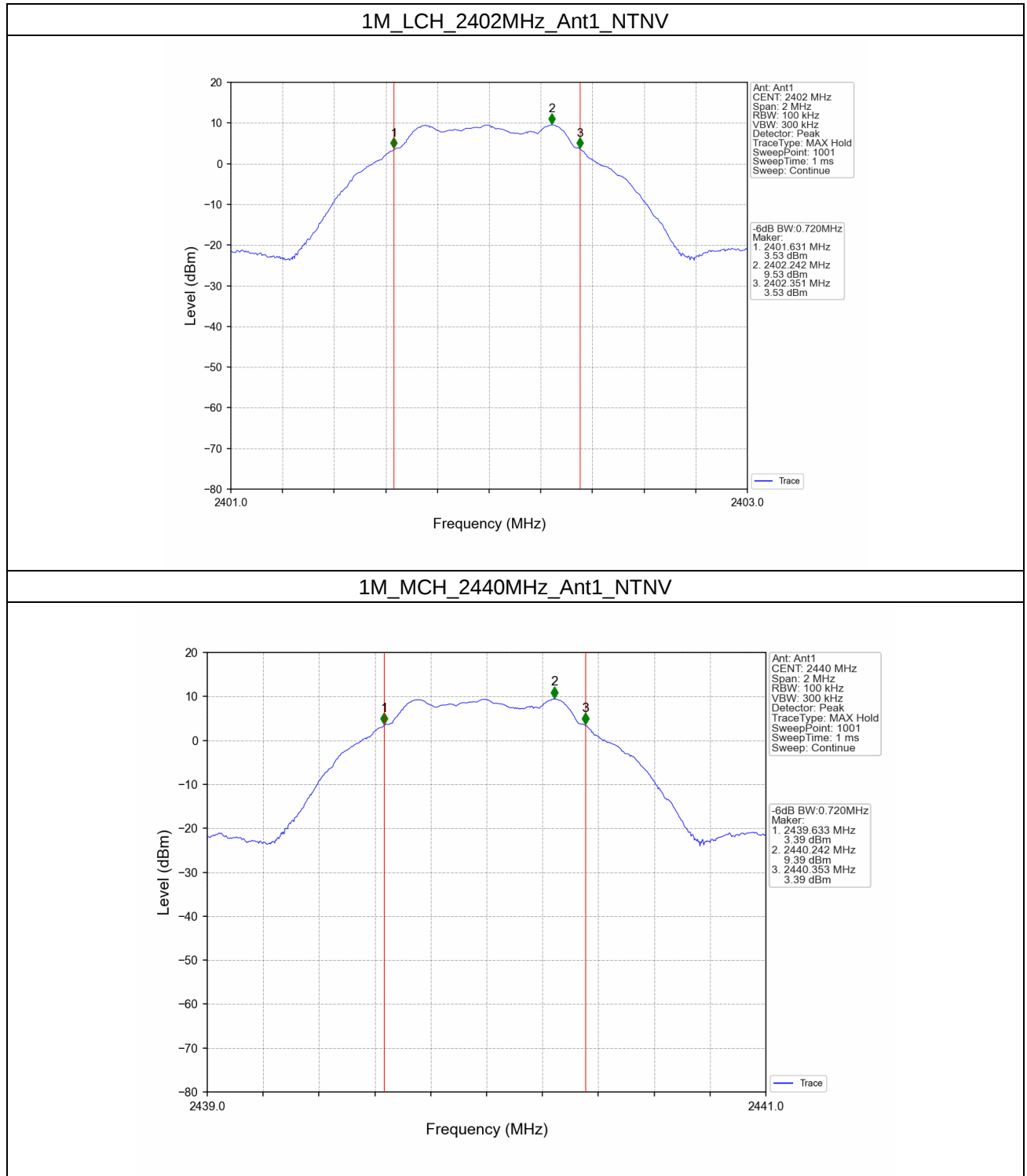
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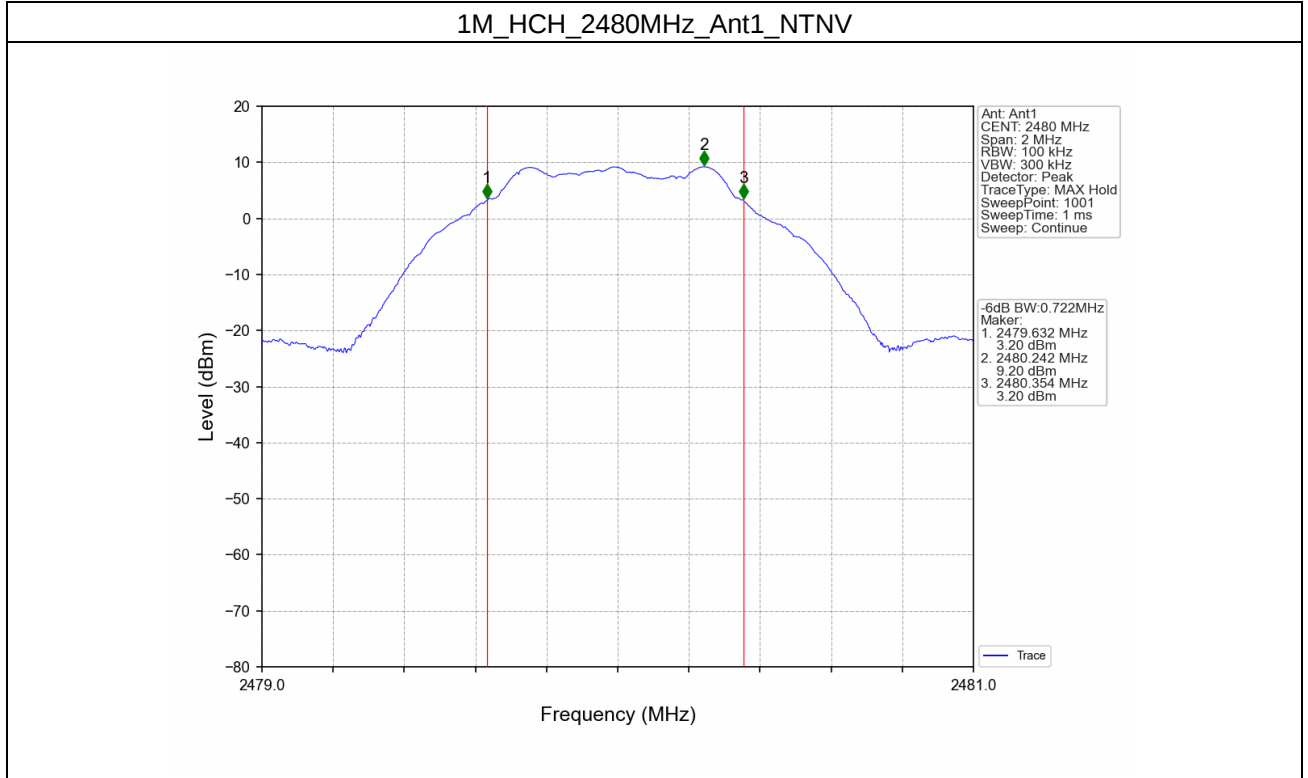
2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.720	≥ 0.5	Pass
		2440	1	0.720	≥ 0.5	Pass
		2480	1	0.722	≥ 0.5	Pass

2.2.2 Test Graph





3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	10.42	<=30	Pass
		2440	10.28	<=30	Pass
		2480	10.09	<=30	Pass
Note1: Antenna Gain: Ant1: 0.96dBi;					

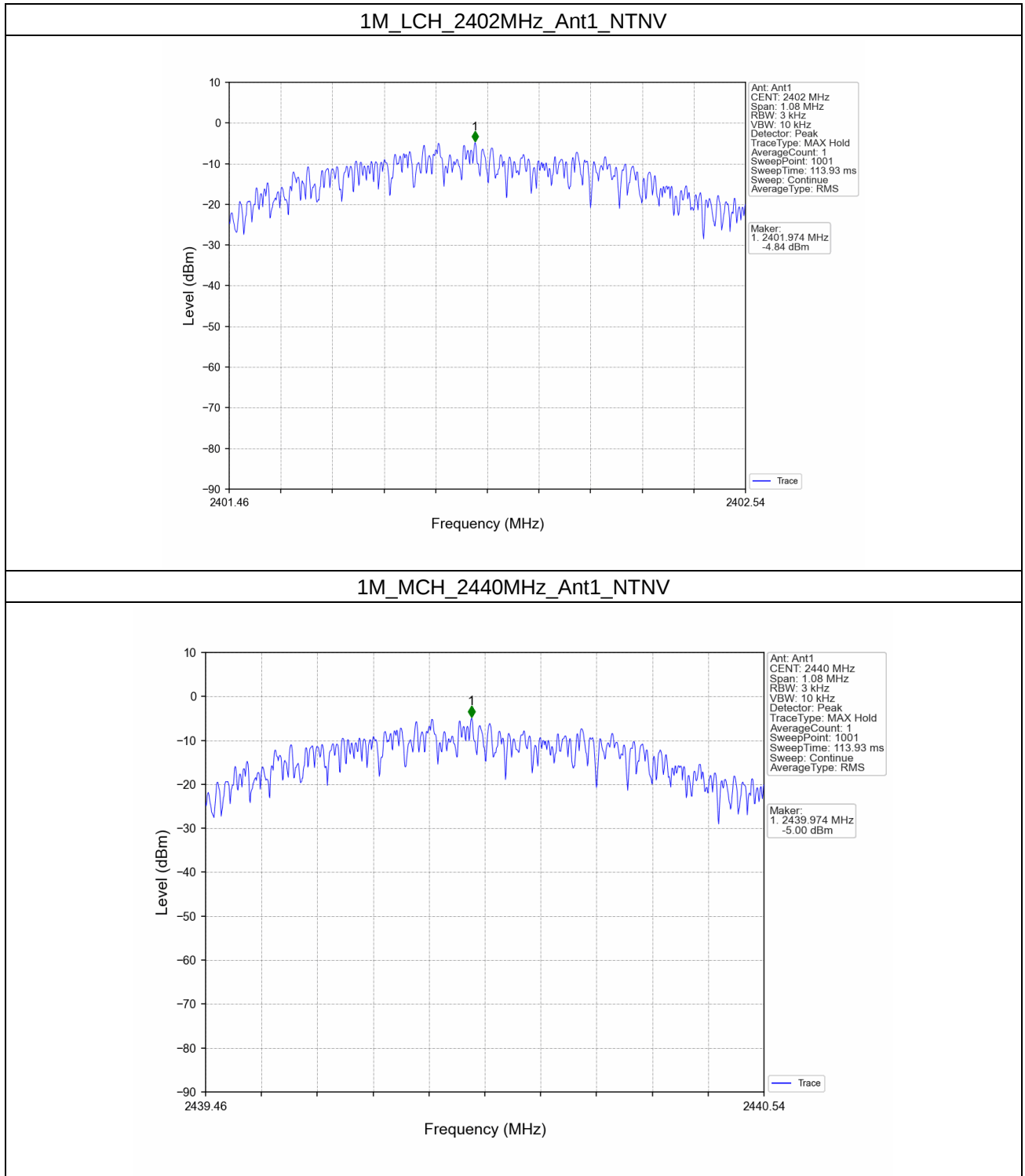
4. Maximum Power Spectral Density

4.1 PSD

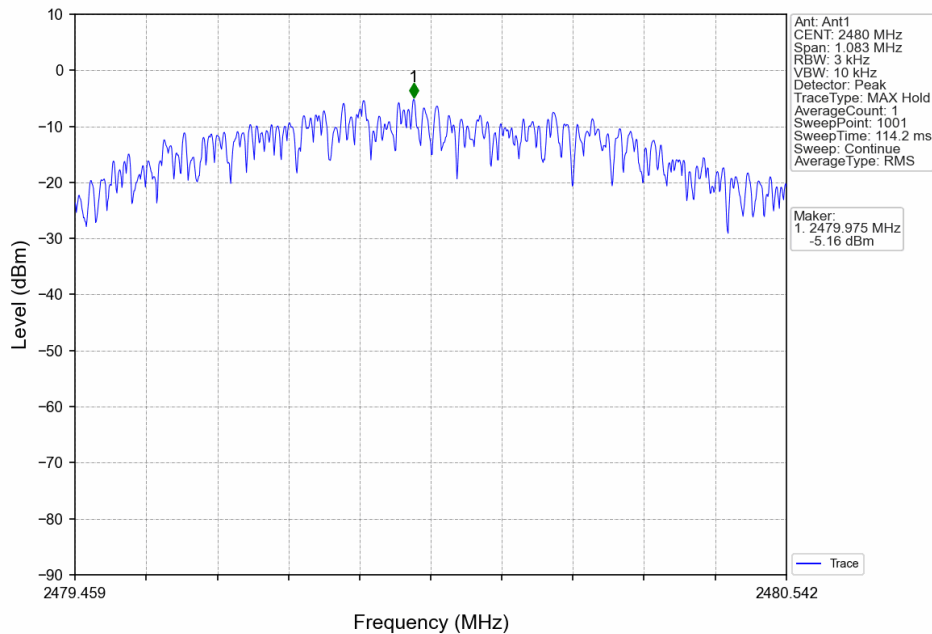
4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-4.84	<=8	Pass
		2440	-5.00	<=8	Pass
		2480	-5.16	<=8	Pass
Note1: Antenna Gain: Ant1: 0.96dBi;					

4.1.2 Test Graph



1M_HCH_2480MHz_Ant1_NTNV



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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

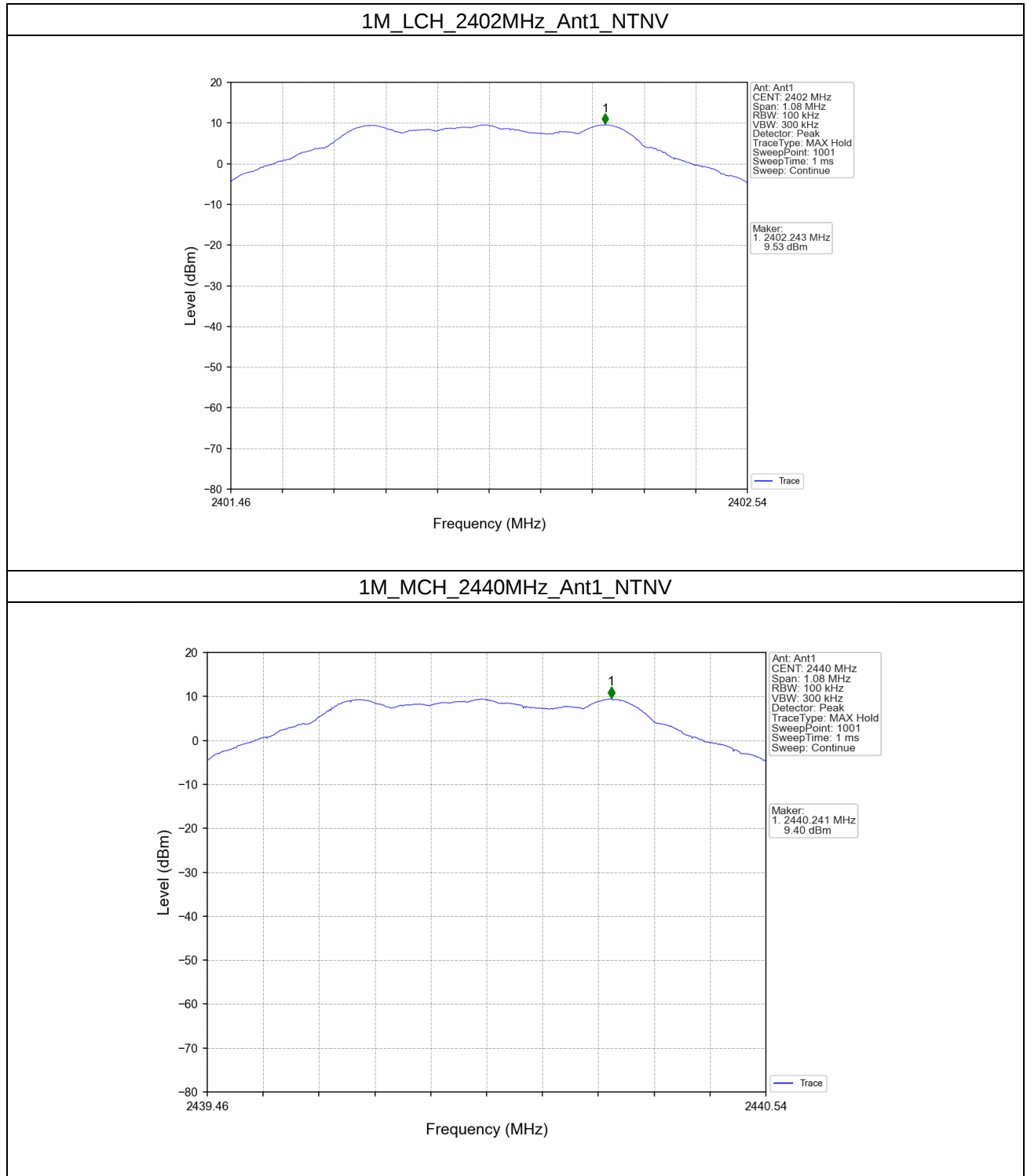
5.1.1 Test Result

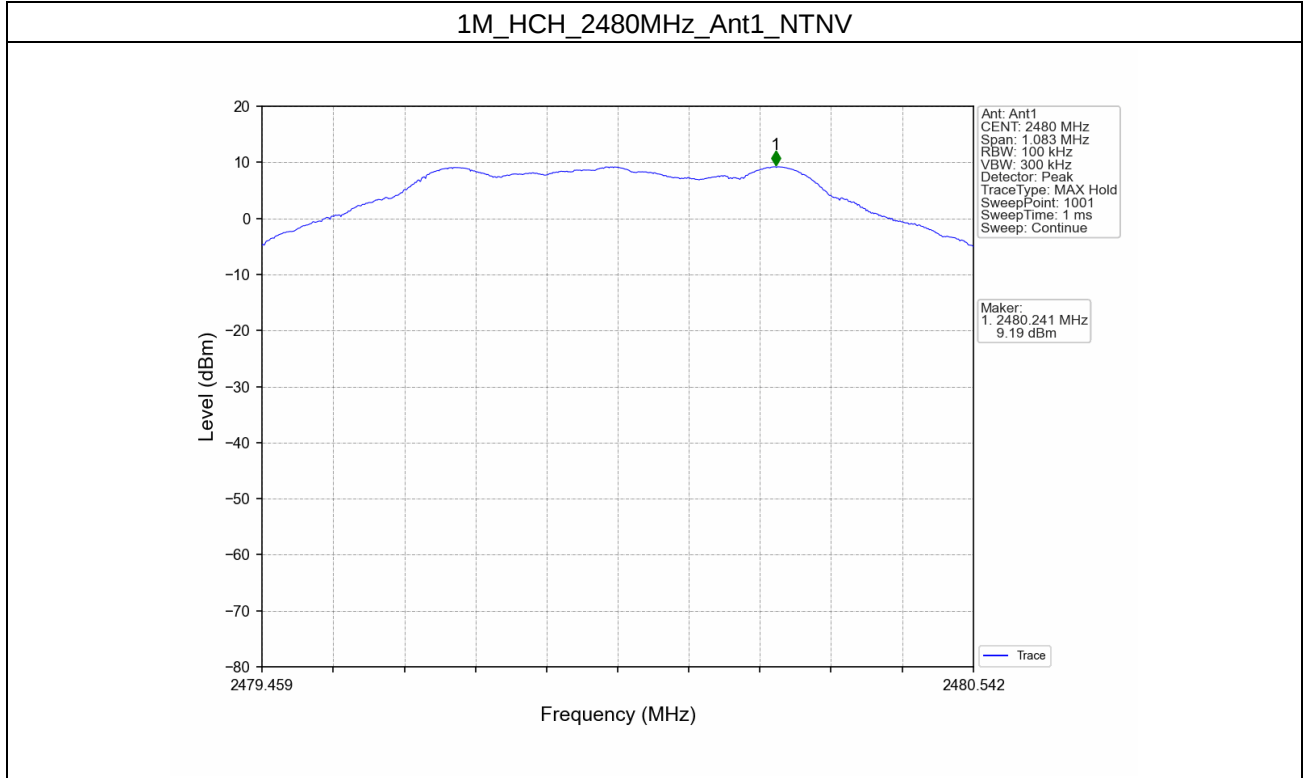
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	9.53
		2440	1	9.40
		2480	1	9.19

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



5.1.2 Test Graph





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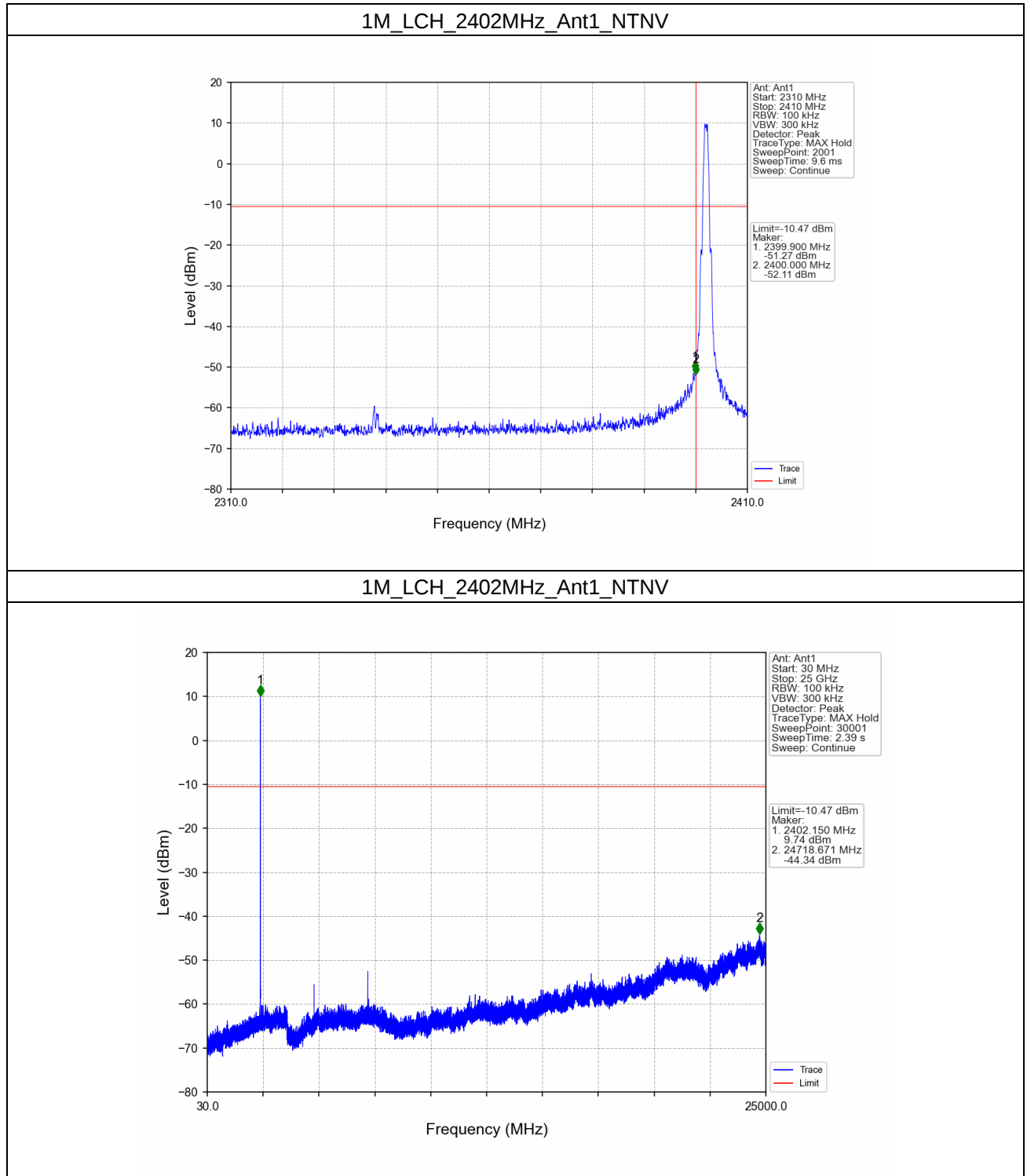
5.2 CSE

5.2.1 Test Result

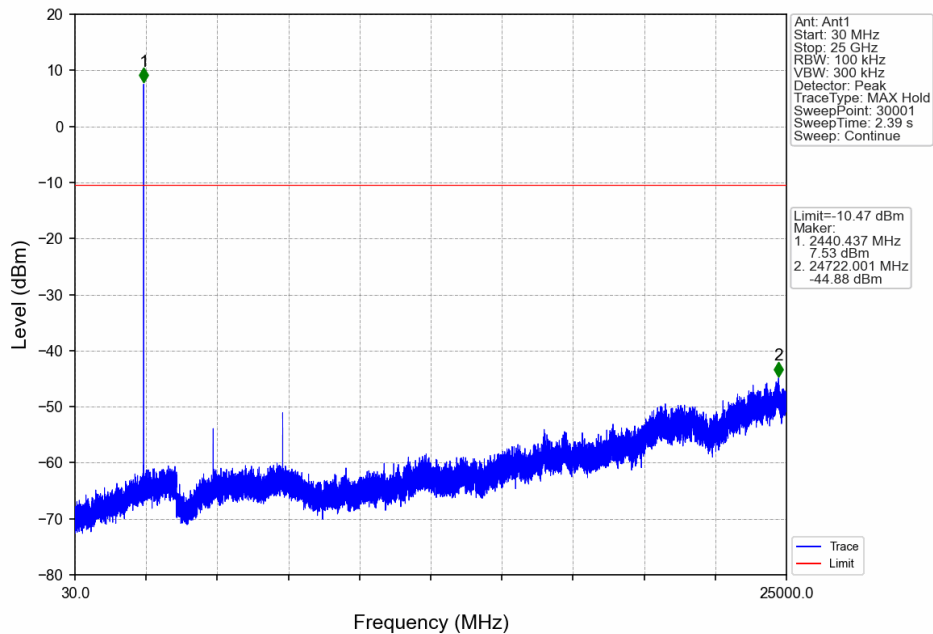
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	9.53	-10.47	Pass
		2440	1	9.53	-10.47	Pass
		2480	1	9.53	-10.47	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

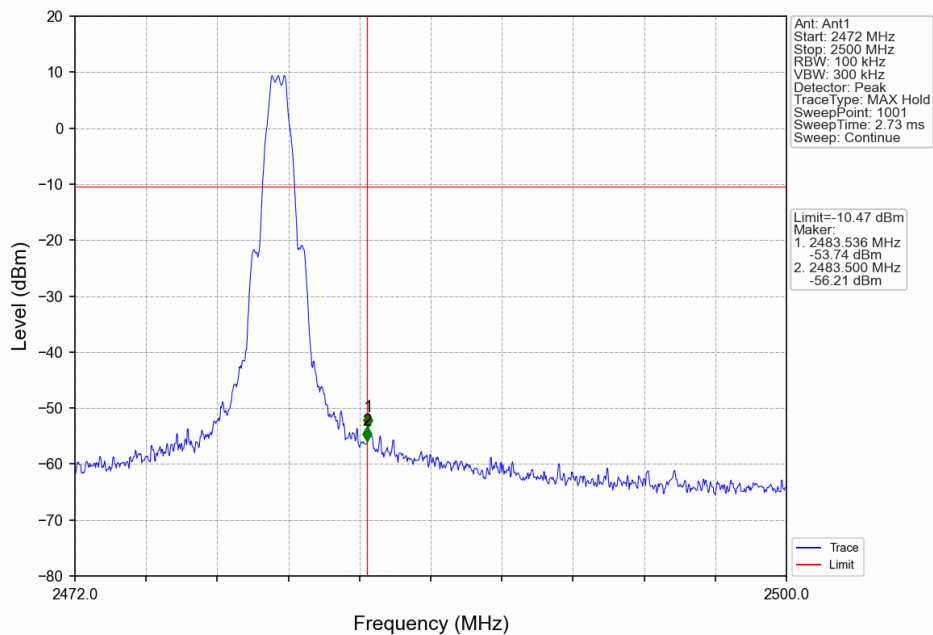
5.2.2 Test Graph



1M_MCH_2440MHz_Ant1_NTNV

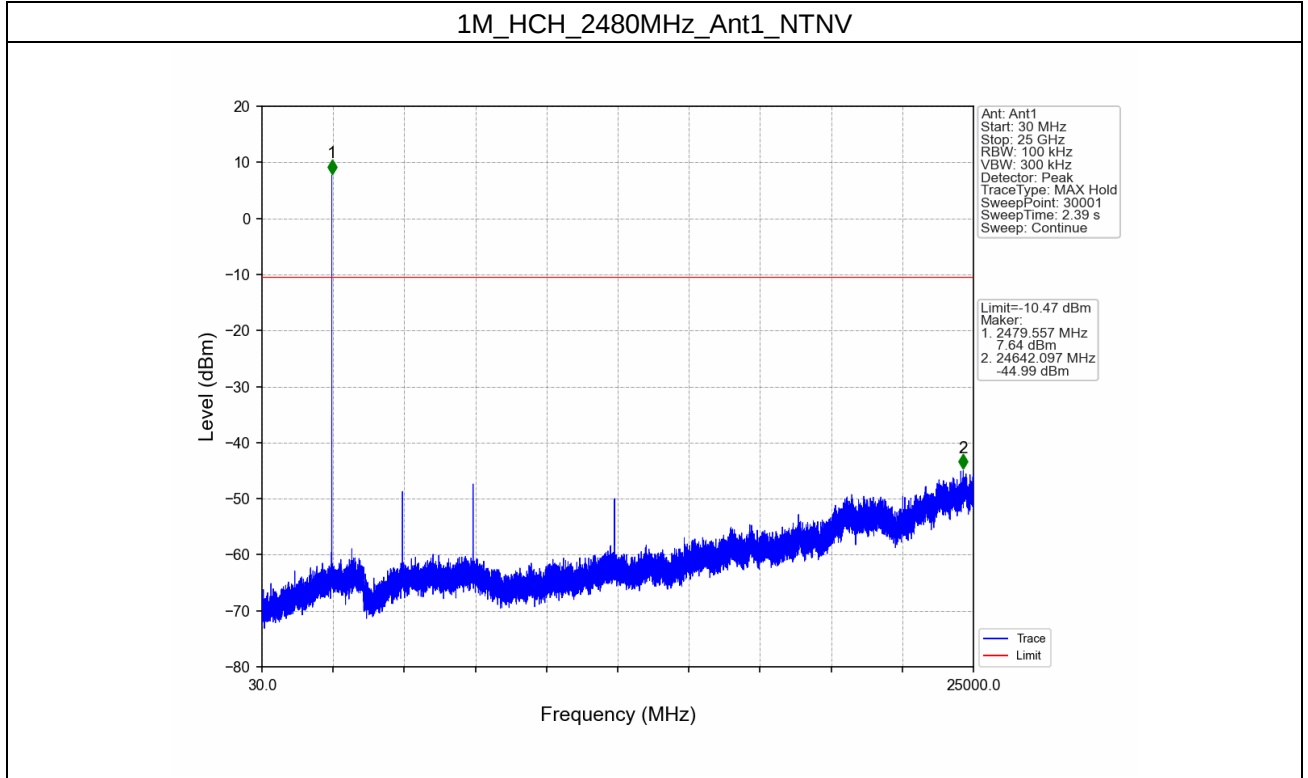


1M_HCH_2480MHz_Ant1_NTNV



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- End of the Report -