

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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200481502

Page: 1 of 150

TEST REPORT

Application No.: SZCR2412004815AT
Applicant: SZ DJI TECHNOLOGY CO., LTD.
Address of Applicant: Lobby of T2, DJI Sky City, No. 53 Xianyuan Road, Xili Community, Xili Street, Nanshan District, 518055, Shenzhen, China.
Manufacturer: SZ DJI TECHNOLOGY CO., LTD.
Address of Manufacturer: Lobby of T2, DJI Sky City, No. 53 Xianyuan Road, Xili Community, Xili Street, Nanshan District, 518055, Shenzhen, China.

Equipment Under Test (EUT):

EUT Name: Matrice 400A
Model No.: M400A
Trade Mark: DJI
FCC ID: SS3-M400A2412
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2024-12-20
Date of Test: 2024-12-20 to 2024-12-23
Date of Issue: 2024-12-24

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

Kenx. Xu

Kenx Xu
EMC Laboratory Manager



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

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024-12-24		Original

Authorized for issue by:				
		Darren Yuan		
		Darren Yuan/Project Engineer		
		Eric Fu		
		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
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	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
Conducted Peak Output Power		ANSI C63.10 (2013) Section 11.9.2	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



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4 General Information

4.1 Details of E.U.T.

Power supply:	Powered by Lithium Ion Rechargeable Battery Battery Information Model: TB100-20254-48.23 Nominal Voltage: 48.23VDC Rated Capacity: 20254mAh
Operation Frequency:	1.4MHz mode A: 902.8MHz-927.2MHz 1.4MHz mode C: 902.99MHz-925.39MHz 1.4MHz mode D: 904.61MHz-927.01MHz 3MHz mode A: 903.6MHz-926.4MHz 3MHz mode C: 903.78MHz-922.98MHz 3MHz mode D: 907.02MHz-926.22MHz 5MHz mode A: 904.6MHz-925.4MHz 5MHz mode C: 904.76MHz-918.76MHz 5MHz mode D: 911.24MHz-925.24MHz 10MHz mode A: 907MHz-923MHz 10MHz mode C: 907.05MHz-909.45MHz 10MHz mode D: 920.55MHz-922.95MHz 20MHz mode A: 912MHz-918MHz
Modulation Type:	OFDM
Channel Spacing:	1.4MHz mode A: 0.2MHz 1.4MHz mode C: 0.2MHz 1.4MHz mode D: 0.2MHz 3MHz mode A: 0.2MHz 3MHz mode C: 0.2MHz 3MHz mode D: 0.2MHz 5MHz mode A: 0.2MHz 5MHz mode C: 0.2MHz 5MHz mode D: 0.2MHz 10MHz mode A: 0.2MHz 10MHz mode C: 0.2MHz 10MHz mode D: 0.2MHz 20MHz mode A: 0.2MHz
Number of Channels:	1.4MHz mode A: 123 1.4MHz mode C: 113 1.4MHz mode D: 113 3MHz mode A: 115 3MHz mode C: 97 3MHz mode D: 97



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	5MHz mode A: 105 5MHz mode C: 71 5MHz mode D: 71 10MHz mode A: 81 10MHz mode C: 13 10MHz mode D: 13 20MHz mode A: 31
Antenna Type:	Dipole Antenna
Antenna Gain:	ANT0: 0.5dBi, ANT1:0.5dBi
Cable Loss (for RF conducted test):	1.4dB

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.



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4.2 Description of Support Units

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

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
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)
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	$\pm 0.75\text{dB}$
Remark: The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (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



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5 Equipment List

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2024-08-14	2025-08-13
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2024-07-06	2025-07-05

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2024-08-14	2025-08-13
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2024-07-06	2025-07-05

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	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2024-08-10	2025-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14



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RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-27	2025-03-26
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-14	2025-03-13
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2024-03-27	2025-03-26

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17



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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

Standard 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.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antennas are ANT0: 0.5dBi, ANT1: 0.5dBi, directional gain is 3.51dBi.

Antenna location: Refer to internal photo.



7 Radio Spectrum Matter Test Results

7.1 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.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 20.2 °C

Humidity: 45.2 % RH

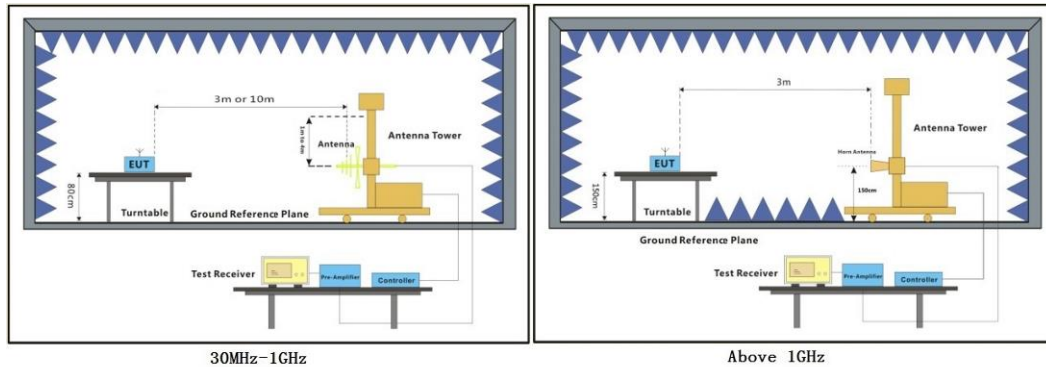
Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (Sub2G SDR_1.4MHz)_Keep the EUT in transmitting mode.
Final test	02	TX mode (Sub2G SDR_3MHz)_Keep the EUT in transmitting mode.
Final test	03	TX mode (Sub2G SDR_5MHz)_Keep the EUT in transmitting mode.
Final test	04	TX mode (Sub2G SDR_10MHz)_Keep the EUT in transmitting mode.
Final test	05	TX mode (Sub2G SDR_20MHz)_Keep the EUT in transmitting mode.



7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

- a. 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.
- b. 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.
- c. 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.
- d. 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.
- e. 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.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. 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.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. 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.
- j. Repeat above procedures until all frequencies measured was complete.

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

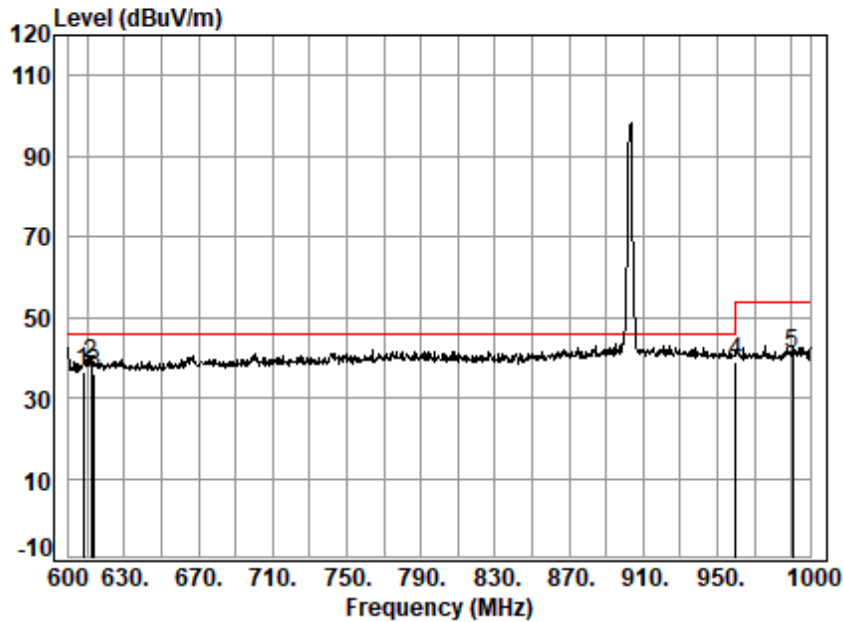
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level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

Remark 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 4: For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



Test Mode: 01; Polarity: Horizontal

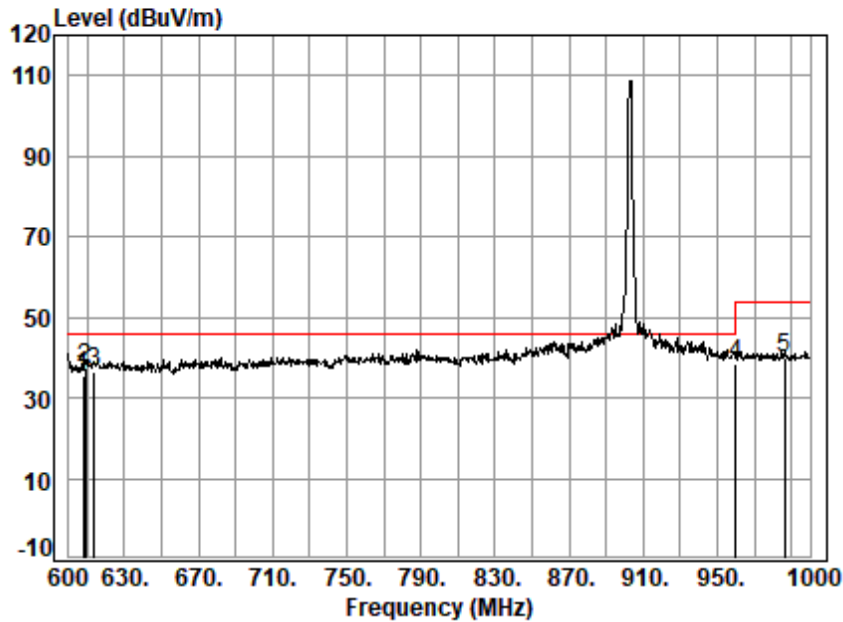


Site : chamber
Condition: 3m HORIZONTAL
Job No. : 04815AT
Test mode: 01
: 902.8M

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	608.000	24.63	3.27	0.00	8.48	36.38	46.00	-9.62 QP
2	612.000	24.81	3.28	0.00	10.30	38.39	46.00	-7.61 QP
3	614.000	24.92	3.28	0.00	7.94	36.14	46.00	-9.86 QP
4 q	960.000	28.10	4.28	0.00	6.65	39.03	46.00	-6.97 QP
5	990.800	28.08	4.36	0.00	8.39	40.83	54.00	-13.17 QP



Test Mode: 01; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 04815AT
Test mode: 01
: 902.8M

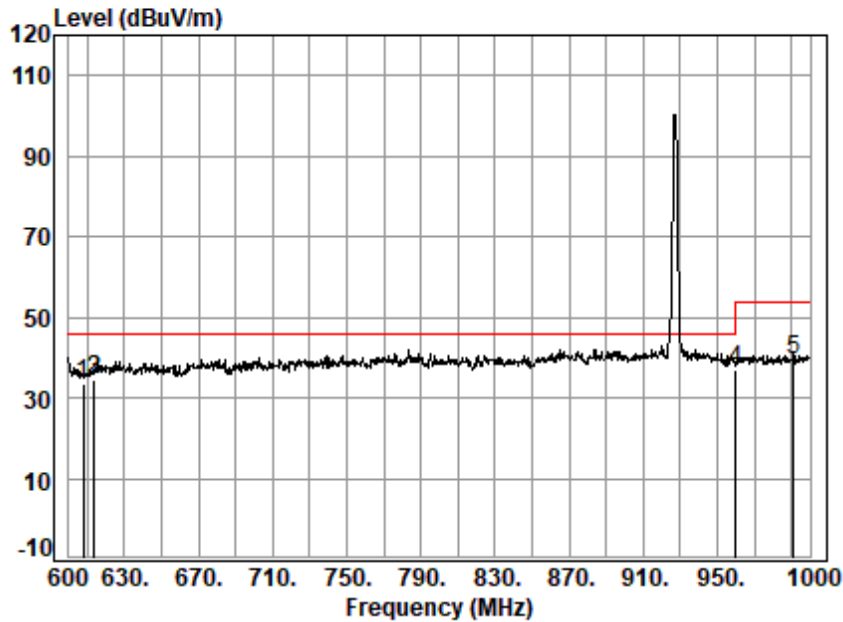
	Ant Freq	Cable Factor	Preamp Loss	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	608.000	24.63	3.27	0.00	7.80	35.70	46.00	-10.30 QP
2	608.800	24.66	3.27	0.00	9.71	37.64	46.00	-8.36 QP
3	614.000	24.92	3.28	0.00	8.05	36.25	46.00	-9.75 QP
4 q	960.000	28.10	4.28	0.00	6.18	38.56	46.00	-7.44 QP
5	986.000	28.07	4.35	0.00	7.42	39.84	54.00	-14.16 QP



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Test Mode: 01; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 04815AT
Test mode: 01
: 907.2M

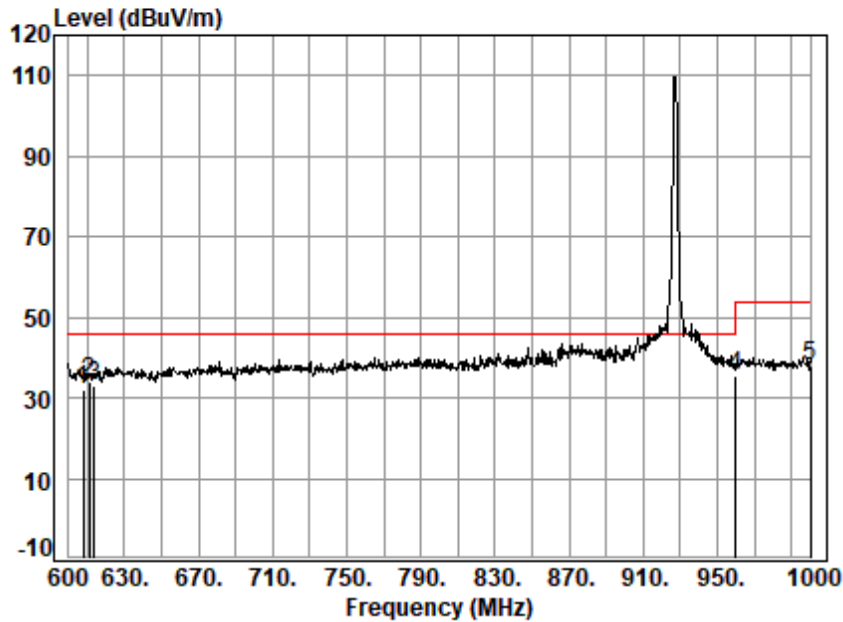
	Ant Freq	Cable Factor	Preamp Loss	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	608.000	24.63	3.27	0.00	5.50	33.40	46.00	-12.60 QP
2	614.000	24.92	3.28	0.00	6.43	34.63	46.00	-11.37 QP
3	614.000	24.92	3.28	0.00	6.43	34.63	46.00	-11.37 QP
4 q	960.000	28.10	4.28	0.00	4.61	36.99	46.00	-9.01 QP
5	991.200	28.07	4.36	0.00	6.77	39.20	54.00	-14.80 QP



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Test Mode: 01; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 04815AT
Test mode: 01
: 907.2M

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	608.000	24.63	3.27	0.00	4.16	32.06	46.00	-13.94 QP
2	611.200	24.77	3.28	0.00	6.13	34.18	46.00	-11.82 QP
3	614.000	24.92	3.28	0.00	4.92	33.12	46.00	-12.88 QP
4 q	960.000	28.10	4.28	0.00	2.99	35.37	46.00	-10.63 QP
5	1000.000	28.26	4.38	0.00	5.49	38.13	54.00	-15.87 QP



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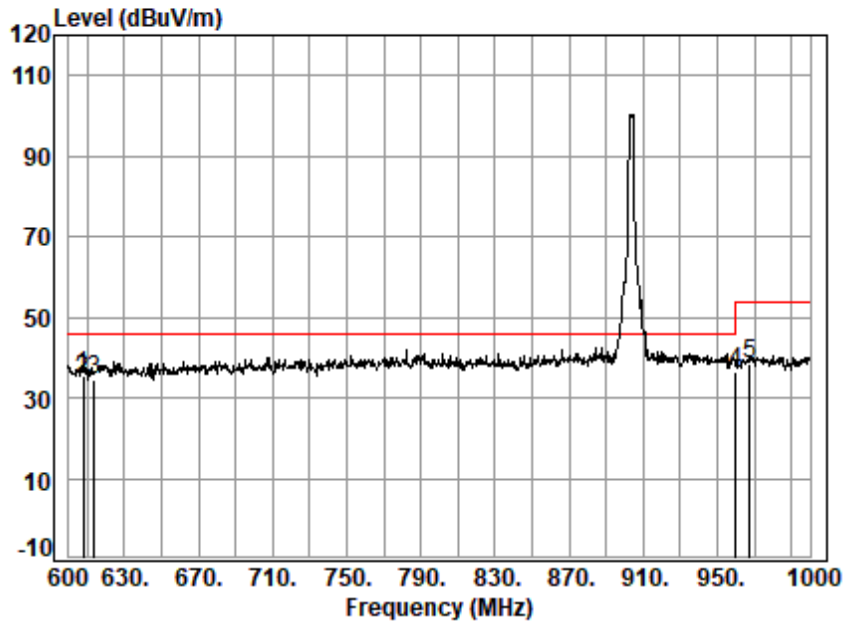
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200481502

Page: 20 of 150

Test Mode: 02; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 04815AT
Test mode: 02
: 903.6M

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	607.600	24.61	3.26	0.00	7.84	35.71	46.00	-10.29 QP
2	608.000	24.63	3.27	0.00	6.61	34.51	46.00	-11.49 QP
3	614.000	24.92	3.28	0.00	6.13	34.33	46.00	-11.67 QP
4 q	960.000	28.10	4.28	0.00	4.06	36.44	46.00	-9.56 QP
5	967.600	28.21	4.30	0.00	5.98	38.49	54.00	-15.51 QP



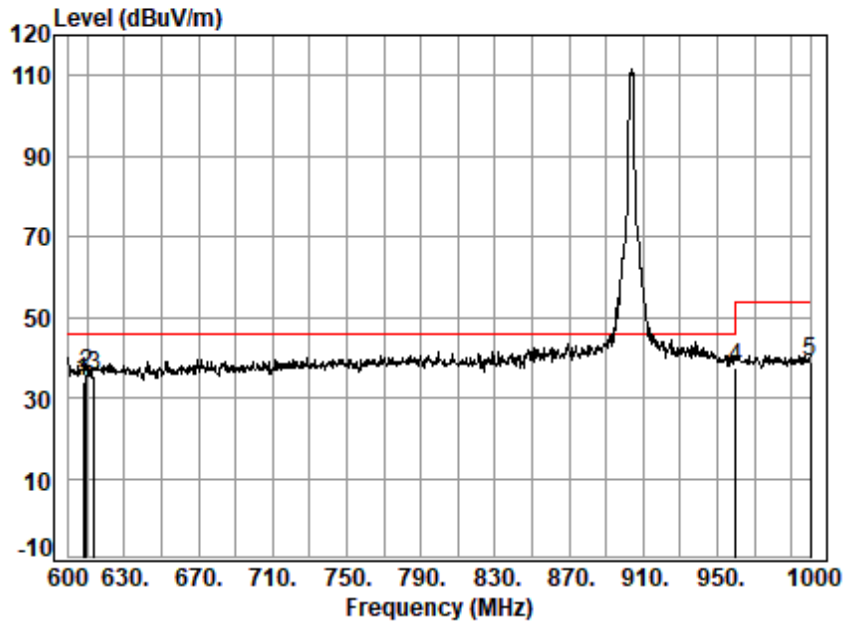
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Test Mode: 02; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 04815AT
Test mode: 02
: 903.6M

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	608.000	24.63	3.27	0.00	6.28	34.18	46.00	-11.82 QP
2	609.600	24.69	3.27	0.00	8.25	36.21	46.00	-9.79 QP
3	614.000	24.92	3.28	0.00	7.27	35.47	46.00	-10.53 QP
4 q	960.000	28.10	4.28	0.00	5.32	37.70	46.00	-8.30 QP
5	1000.000	28.26	4.38	0.00	6.15	38.79	54.00	-15.21 QP



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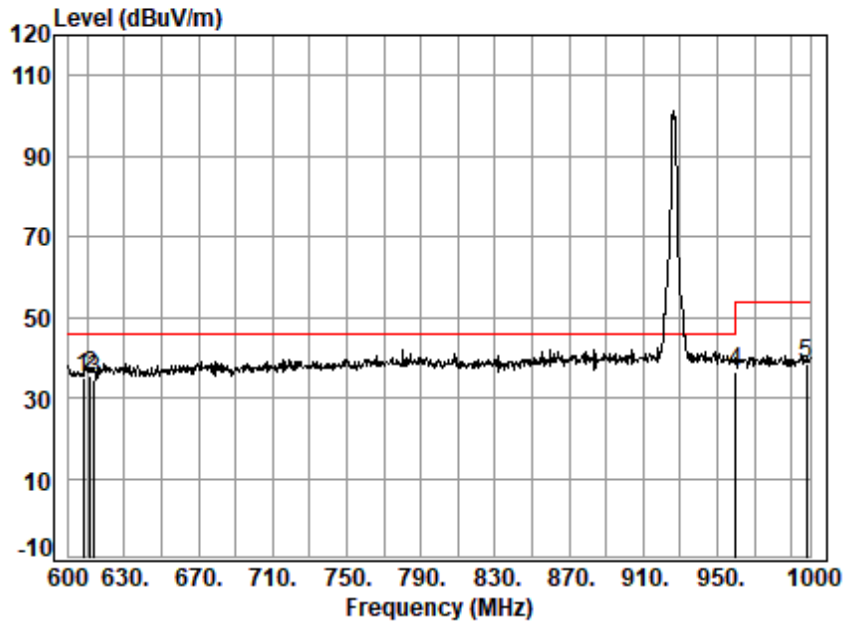
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200481502

Page: 22 of 150

Test Mode: 02; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 04815AT
Test mode: 02
: 926.4M

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	608.000	24.63	3.27	0.00	6.85	34.75	46.00	-11.25 QP
2	611.600	24.79	3.28	0.00	7.24	35.31	46.00	-10.69 QP
3	614.000	24.92	3.28	0.00	6.30	34.50	46.00	-11.50 QP
4 q	960.000	28.10	4.28	0.00	3.99	36.37	46.00	-9.63 QP
5	998.000	28.16	4.38	0.00	5.75	38.29	54.00	-15.71 QP



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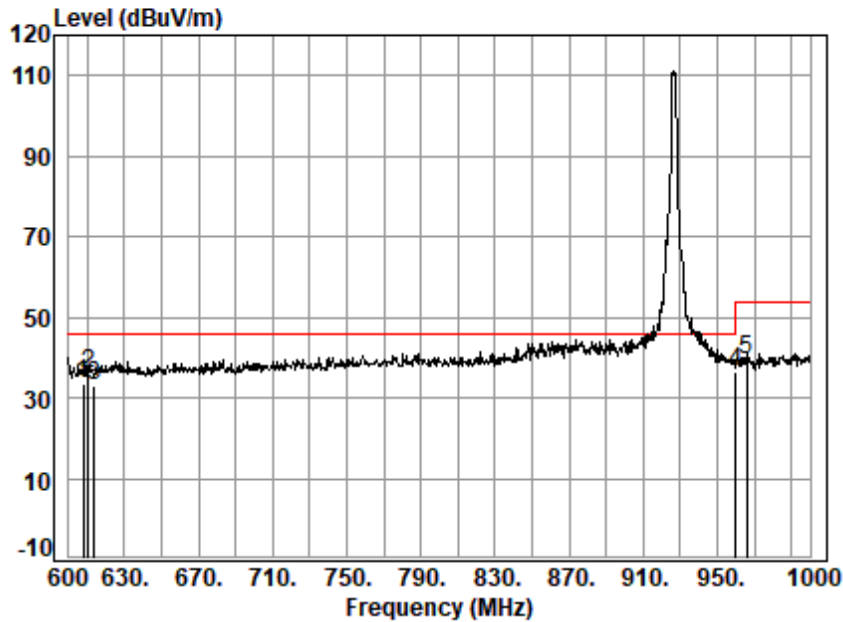
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200481502

Page: 23 of 150

Test Mode: 02; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 04815AT
Test mode: 02
: 926.4M

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	608.000	24.63	3.27	0.00	5.54	33.44	46.00	-12.56 QP
2	610.400	24.73	3.27	0.00	8.04	36.04	46.00	-9.96 QP
3	614.000	24.92	3.28	0.00	4.90	33.10	46.00	-12.90 QP
4 q	960.000	28.10	4.28	0.00	3.97	36.35	46.00	-9.65 QP
5	965.600	28.12	4.29	0.00	6.98	39.39	54.00	-14.61 QP



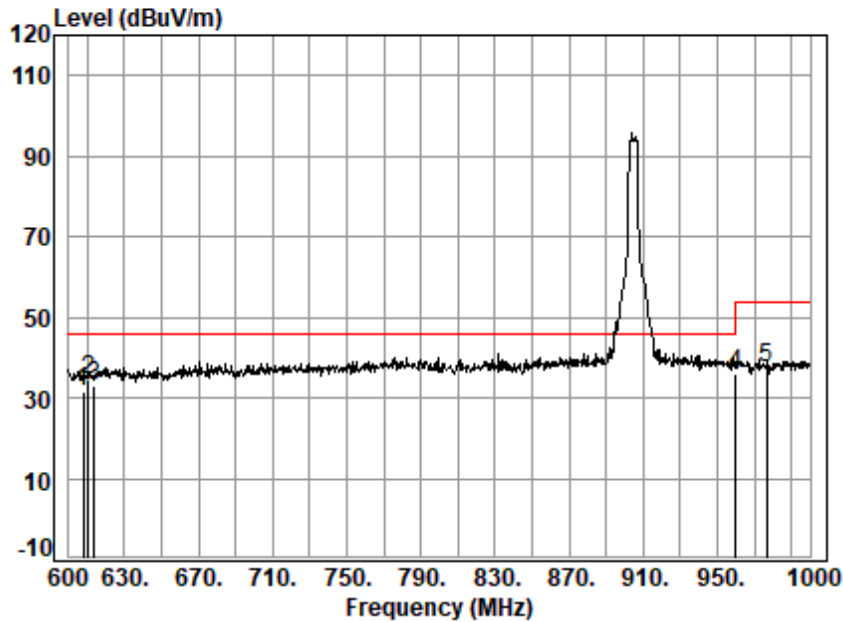
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Test Mode: 03; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 04815AT
Test mode: 03
: 904.6M

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	608.000	24.63	3.27	0.00	3.64	31.54	46.00	-14.46 QP
2	610.800	24.75	3.27	0.00	6.22	34.24	46.00	-11.76 QP
3	614.000	24.92	3.28	0.00	4.65	32.85	46.00	-13.15 QP
4 q	960.000	28.10	4.28	0.00	3.64	36.02	46.00	-9.98 QP
5	976.800	28.03	4.32	0.00	4.97	37.32	54.00	-16.68 QP



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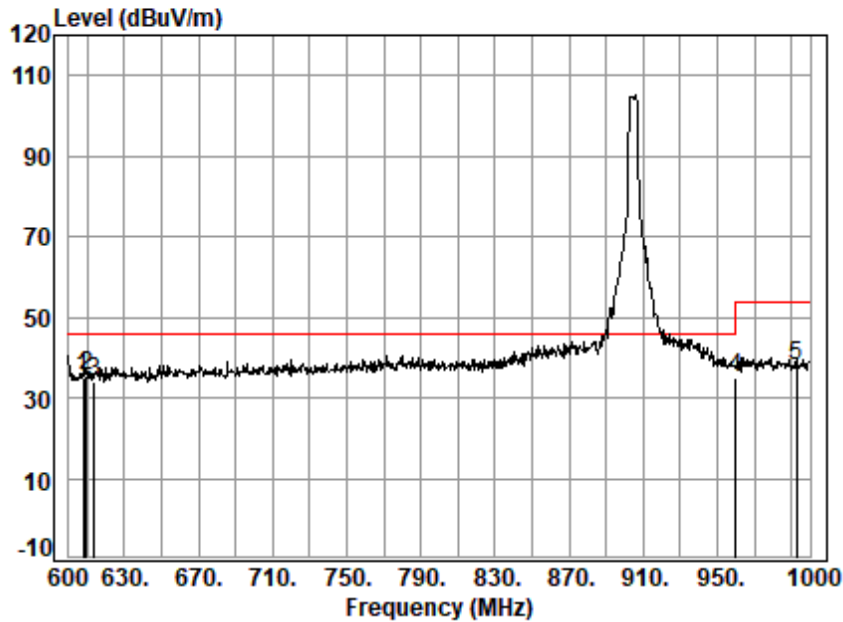
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200481502

Page: 25 of 150

Test Mode: 03; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 04815AT
Test mode: 03
: 904.6M

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	608.000	24.63	3.27	0.00	7.08	34.98	46.00	-11.02 QP
2 q	609.200	24.68	3.27	0.00	7.42	35.37	46.00	-10.63 QP
3	614.000	24.92	3.28	0.00	5.79	33.99	46.00	-12.01 QP
4	960.000	28.10	4.28	0.00	2.84	35.22	46.00	-10.78 QP
5	992.800	28.07	4.36	0.00	5.45	37.88	54.00	-16.12 QP



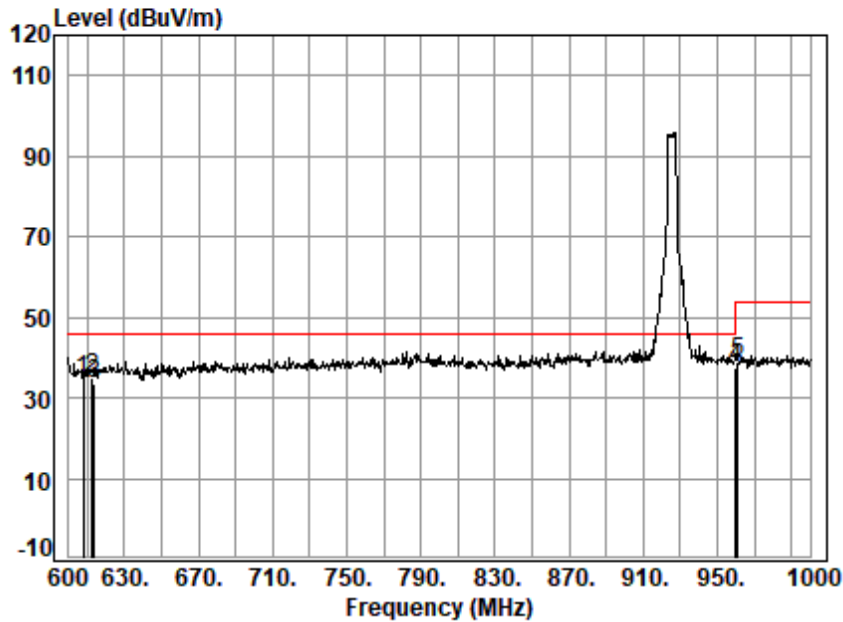
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Test Mode: 03; Polarity: Horizontal

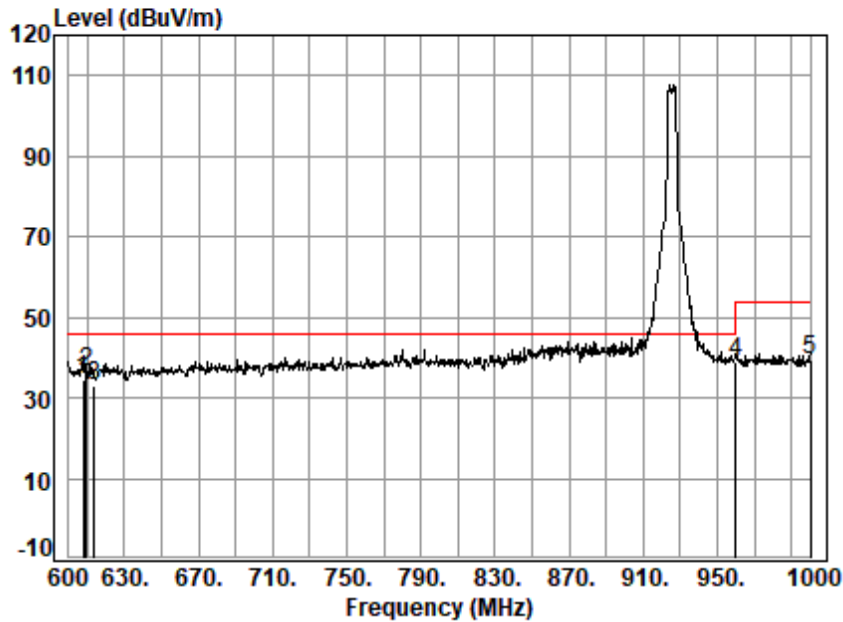


Site : chamber
Condition: 3m HORIZONTAL
Job No. : 04815AT
Test mode: 03
: 925.4M

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	608.000	24.63	3.27	0.00	6.60	34.50	46.00	-11.50 QP
2	612.800	24.85	3.28	0.00	6.92	35.05	46.00	-10.95 QP
3	614.000	24.92	3.28	0.00	5.26	33.46	46.00	-12.54 QP
4 q	960.000	28.10	4.28	0.00	4.85	37.23	46.00	-8.77 QP
5	960.800	28.12	4.28	0.00	6.40	38.80	54.00	-15.20 QP



Test Mode: 03; Polarity: Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No. : 04815AT
 Test mode: 03
 : 925.4M

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	608.000	24.63	3.27	0.00	6.52	34.42	46.00	-11.58 QP
2	609.200	24.68	3.27	0.00	8.40	36.35	46.00	-9.65 QP
3	614.000	24.92	3.28	0.00	4.75	32.95	46.00	-13.05 QP
4 q	960.000	28.10	4.28	0.00	6.31	38.69	46.00	-7.31 QP
5	1000.000	28.26	4.38	0.00	6.67	39.31	54.00	-14.69 QP



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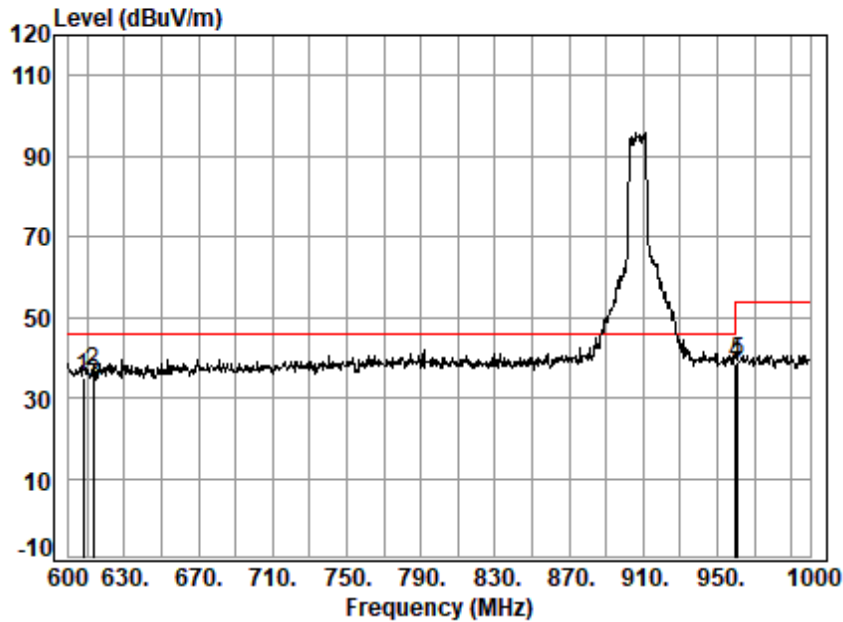
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200481502

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Test Mode: 04; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 04815AT
Test mode: 04
: 907M

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	608.000	24.63	3.27	0.00	6.90	34.80	46.00	-11.20 QP
2	613.200	24.88	3.28	0.00	8.11	36.27	46.00	-9.73 QP
3	614.000	24.92	3.28	0.00	5.16	33.36	46.00	-12.64 QP
4 q	960.000	28.10	4.28	0.00	6.19	38.57	46.00	-7.43 QP
5	960.800	28.12	4.28	0.00	6.47	38.87	54.00	-15.13 QP



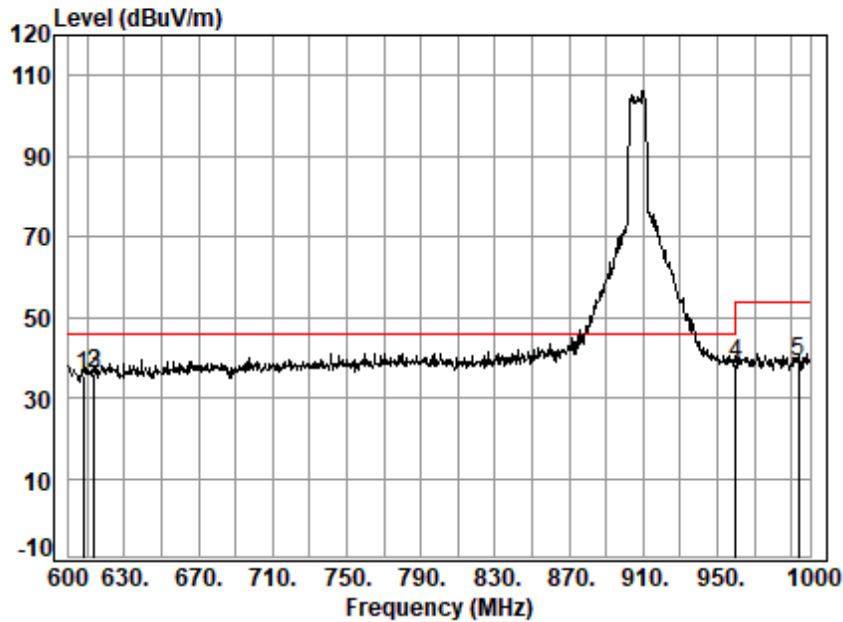
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Test Mode: 04; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 04815AT
Test mode: 04
: 907M

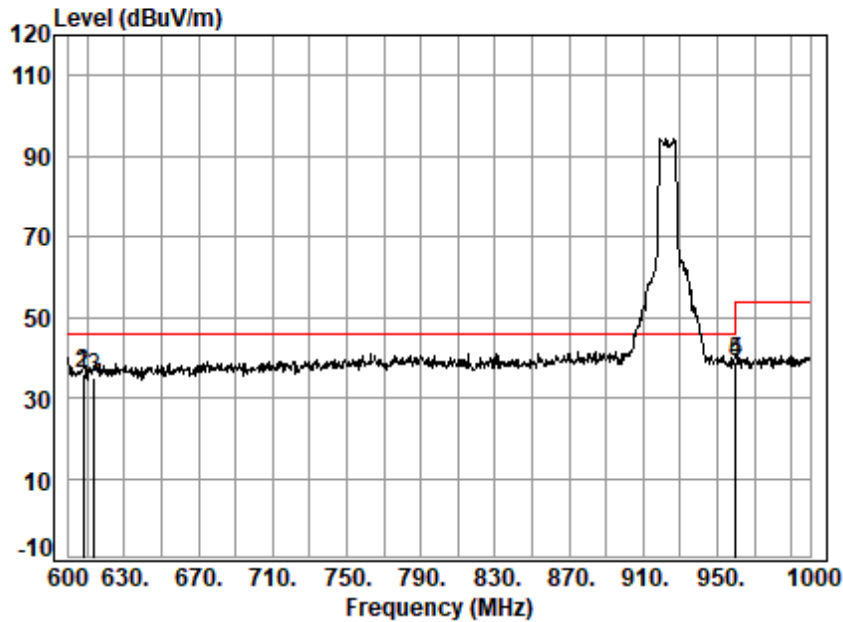
	Ant Freq	Cable Factor	Preamp Loss	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	608.000	24.63	3.27	0.00	7.80	35.70	46.00	-10.30 QP
2	614.000	24.92	3.28	0.00	7.74	35.94	46.00	-10.06 QP
3	614.000	24.92	3.28	0.00	7.74	35.94	46.00	-10.06 QP
4 q	960.000	28.10	4.28	0.00	5.95	38.33	46.00	-7.67 QP
5	993.600	28.08	4.36	0.00	6.51	38.95	54.00	-15.05 QP



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Test Mode: 04; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 04815AT
Test mode: 04
: 923M

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	607.600	24.61	3.26	0.00	8.24	36.11	46.00	-9.89 QP
2	608.000	24.63	3.27	0.00	7.89	35.79	46.00	-10.21 QP
3	614.000	24.92	3.28	0.00	7.01	35.21	46.00	-10.79 QP
4 q	960.000	28.10	4.28	0.00	6.68	39.06	46.00	-6.94 QP
5	960.000	28.10	4.28	0.00	6.68	39.06	46.00	-6.94 QP



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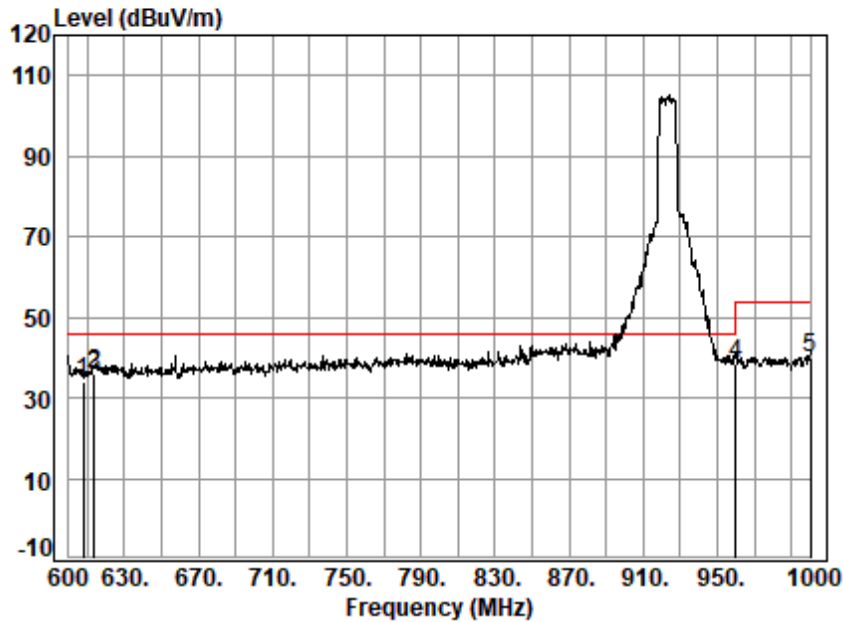
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200481502

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Test Mode: 04; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 04815AT
Test mode: 04
: 923M

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	608.000	24.63	3.27	0.00	6.13	34.03	46.00	-11.97 QP
2	613.600	24.90	3.28	0.00	7.70	35.88	46.00	-10.12 QP
3	614.000	24.92	3.28	0.00	7.30	35.50	46.00	-10.50 QP
4 q	960.000	28.10	4.28	0.00	6.19	38.57	46.00	-7.43 QP
5	1000.000	28.26	4.38	0.00	7.06	39.70	54.00	-14.30 QP



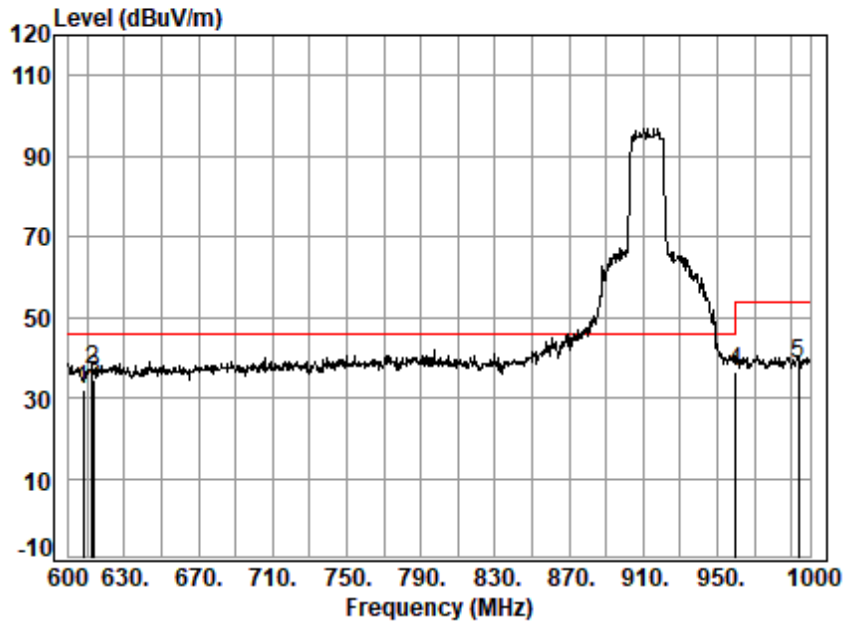
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Test Mode: 05; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 04815AT
Test mode: 05
: 912M

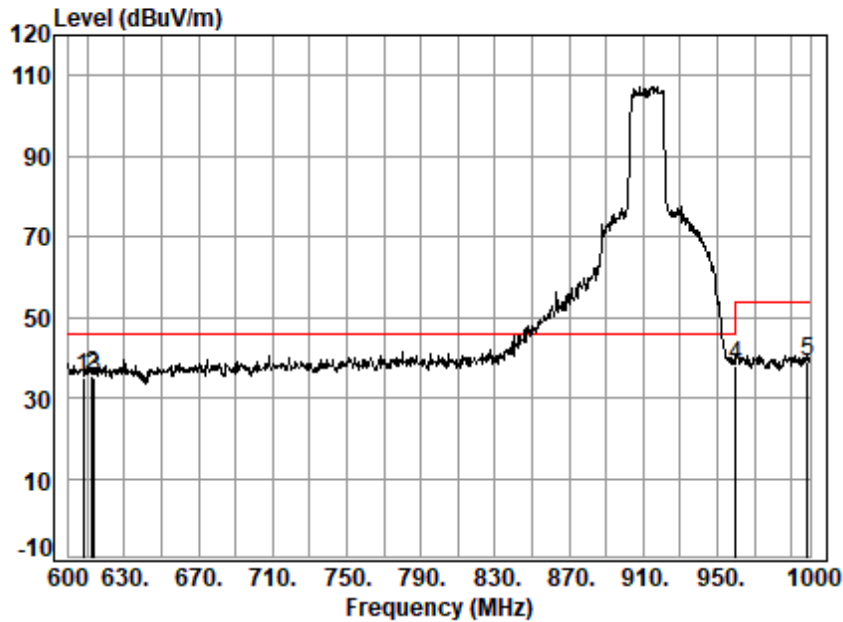
	Ant Freq	Cable Factor	Preamp Loss	Read Factor	Level Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	608.000	24.63	3.27	0.00	4.13	32.03	46.00	-13.97 QP
2 q	612.800	24.85	3.28	0.00	8.81	36.94	46.00	-9.06 QP
3	614.000	24.92	3.28	0.00	6.07	34.27	46.00	-11.73 QP
4	960.000	28.10	4.28	0.00	4.01	36.39	46.00	-9.61 QP
5	993.600	28.08	4.36	0.00	5.79	38.23	54.00	-15.77 QP



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Test Mode: 05; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 04815AT
Test mode: 05
: 912M

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	608.000	24.63	3.27	0.00	6.93	34.83	46.00	-11.17 QP
2	612.800	24.85	3.28	0.00	7.22	35.35	46.00	-10.65 QP
3	614.000	24.92	3.28	0.00	6.60	34.80	46.00	-11.20 QP
4 q	960.000	28.10	4.28	0.00	5.78	38.16	46.00	-7.84 QP
5	998.400	28.18	4.38	0.00	6.32	38.88	54.00	-15.12 QP



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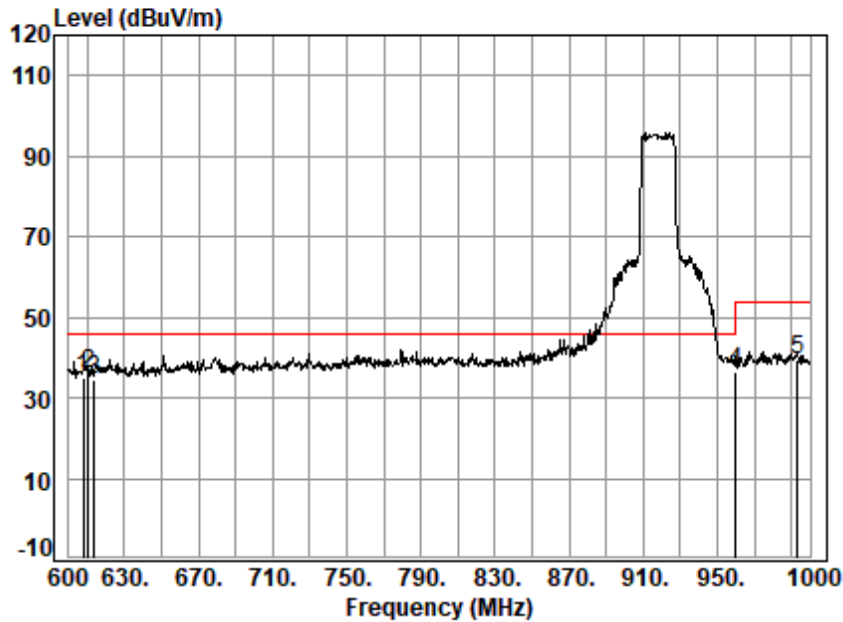
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200481502

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Test Mode: 05; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 04815AT
Test mode: 05
: 918M

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	608.000	24.63	3.27	0.00	7.05	34.95	46.00	-11.05 QP
2	610.400	24.73	3.27	0.00	8.12	36.12	46.00	-9.88 QP
3	614.000	24.92	3.28	0.00	6.05	34.25	46.00	-11.75 QP
4 q	960.000	28.10	4.28	0.00	4.29	36.67	46.00	-9.33 QP
5	993.200	28.08	4.36	0.00	7.04	39.48	54.00	-14.52 QP



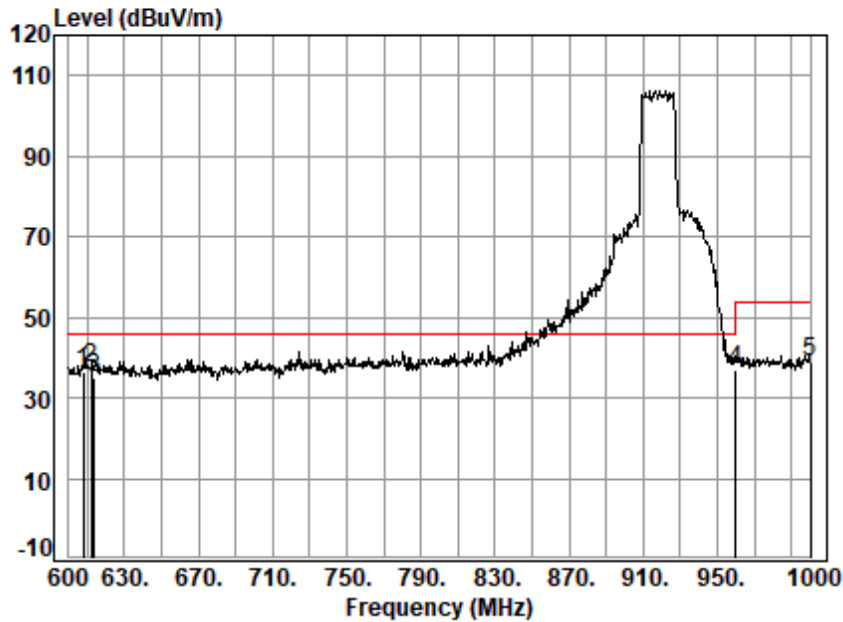
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Test Mode: 05; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 04815AT
Test mode: 05
: 918M

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	608.000	24.63	3.27	0.00	8.41	36.31	46.00	-9.69 QP
2 q	612.400	24.83	3.28	0.00	9.22	37.33	46.00	-8.67 QP
3	614.000	24.92	3.28	0.00	7.01	35.21	46.00	-10.79 QP
4	960.000	28.10	4.28	0.00	4.48	36.86	46.00	-9.14 QP
5	1000.000	28.26	4.38	0.00	6.16	38.80	54.00	-15.20 QP



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7.2 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: 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
960-1000	500	3

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 20.2 °C

Humidity: 45.2 % RH

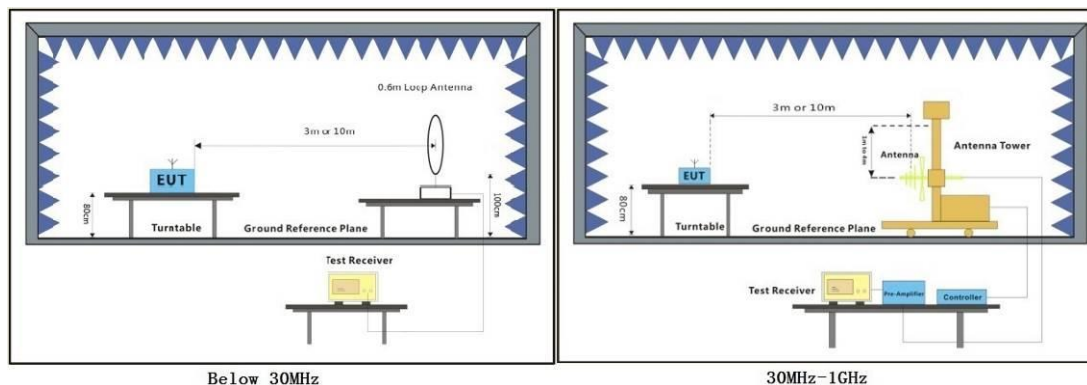
Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (Sub2G SDR_1.4MHz)_Keep the EUT in transmitting mode.
Pre-scan	02	TX mode (Sub2G SDR_3MHz)_Keep the EUT in transmitting mode.
Pre-scan	03	TX mode (Sub2G SDR_5MHz)_Keep the EUT in transmitting mode.
Pre-scan	04	TX mode (Sub2G SDR_10MHz)_Keep the EUT in transmitting mode.
Pre-scan	05	TX mode (Sub2G SDR_20MHz)_Keep the EUT in transmitting mode.



7.2.3 Test Setup Diagram



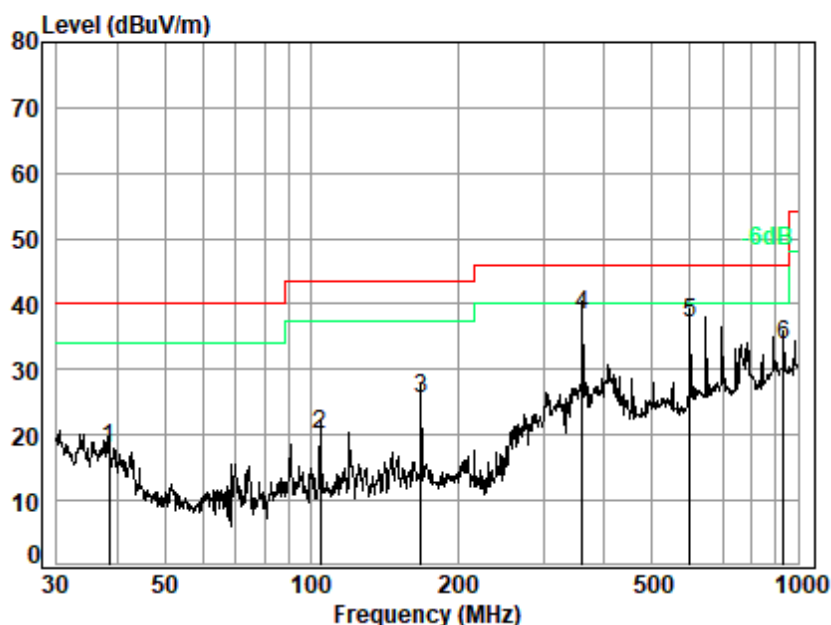
7.2.4 Measurement Procedure and Data

- 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.

Test Mode: 01; Polarity: Horizontal; Modulation: OFDM; Channel: Middle

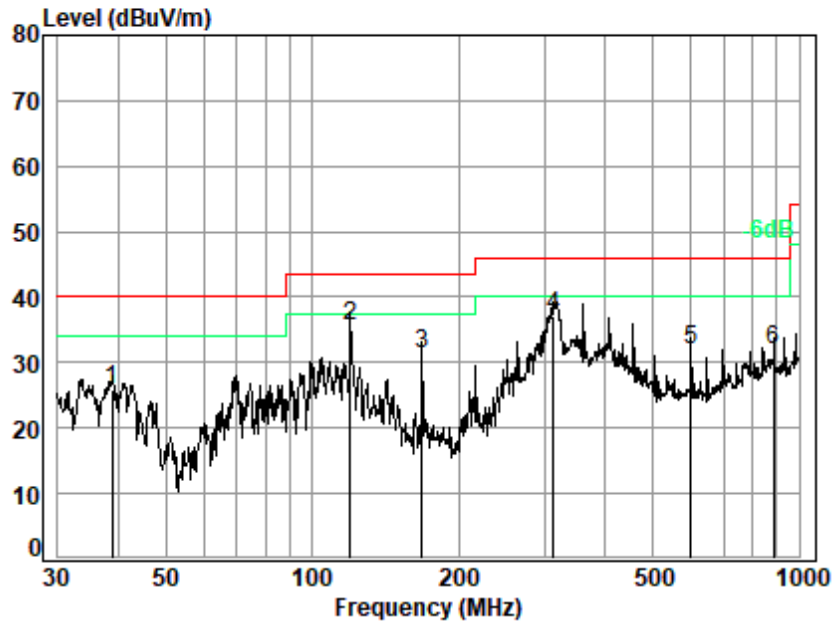


Site : chamber
Condition: 3m HORIZONTAL
Job No. : 04815AT
Test Mode: 01

	Ant	Cable	Preamp	Read		Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	38.481	17.07	0.77	27.77	27.76	17.83	40.00	-22.17 QP
2	104.170	12.22	1.25	27.57	34.29	20.19	43.50	-23.31 QP
3	167.824	13.17	1.62	27.31	38.08	25.56	43.50	-17.94 QP
4 q	360.448	20.23	2.44	27.00	42.65	38.32	46.00	-7.68 QP
5	599.321	24.42	3.24	27.97	37.54	37.23	46.00	-8.77 QP
6	935.546	28.18	4.22	26.51	27.97	33.86	46.00	-12.14 QP



Test Mode: 01; Polarity: Vertical; Modulation: OFDM; Channel: Middle



Site : chamber
Condition: 3m VERTICAL
Job No. : 04815AT
Test Mode: 01

		Ant	Cable	Preamp	Read	Limit	Over	
	Freq	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	38.888	16.89	0.77	27.77	36.09	25.98	40.00	-14.02 QP
2	119.856	11.11	1.36	27.51	50.64	35.60	43.50	-7.90 QP
3	167.824	13.17	1.62	27.31	43.80	31.28	43.50	-12.22 QP
4	313.276	18.40	2.26	26.80	43.36	37.22	46.00	-8.78 QP
5	599.321	24.42	3.24	27.97	32.23	31.92	46.00	-14.08 QP
6	887.610	27.96	4.09	26.85	26.63	31.83	46.00	-14.17 QP

7.3 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

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C

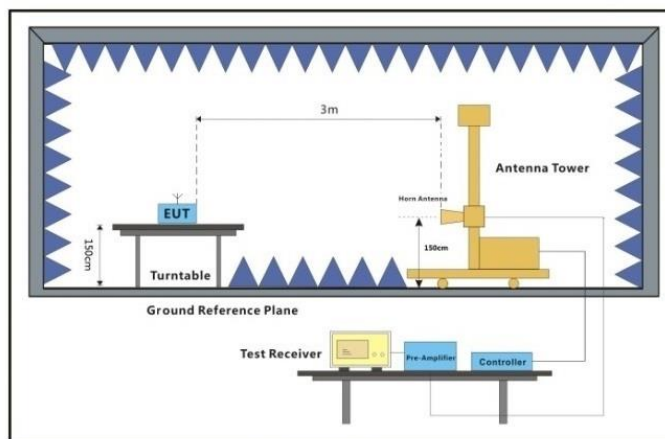
Humidity: 36.3 % RH

Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	01	TX mode (Sub2G SDR_1.4MHz)_Keep the EUT in transmitting mode.
Pre-scan	02	TX mode (Sub2G SDR_3MHz)_Keep the EUT in transmitting mode.
Pre-scan	03	TX mode (Sub2G SDR_5MHz)_Keep the EUT in transmitting mode.
Pre-scan	04	TX mode (Sub2G SDR_10MHz)_Keep the EUT in transmitting mode.
Final test	05	TX mode (Sub2G SDR_20MHz)_Keep the EUT in transmitting mode.

7.3.3 Test Setup Diagram



Above 1GHz



7.3.4 Measurement Procedure and Data

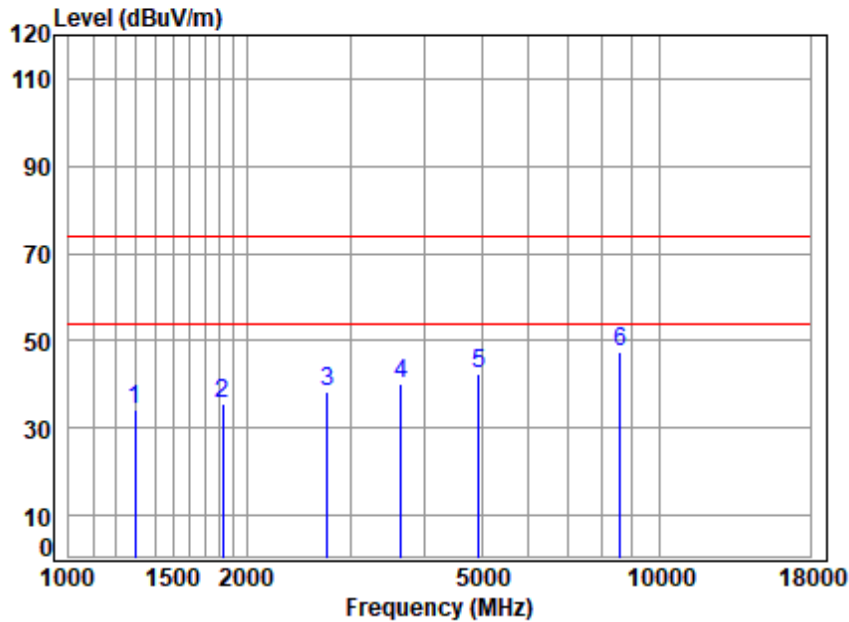
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which 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.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- 5:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle<98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



Test Mode: 05; Polarity: Horizontal; Hob Position Left



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04815AT
Mode : 912 RSE TX
: SDR 20M

	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	1293.359	5.28	24.84	61.42	65.55	34.25	74.00	-39.75	Peak
2	1824.000	5.01	27.00	61.58	65.38	35.81	74.00	-38.19	Peak
3	2736.000	5.70	29.70	61.67	64.37	38.10	74.00	-35.90	Peak
4	3648.000	6.43	32.68	61.48	62.39	40.02	74.00	-33.98	Peak
5	4944.993	7.59	34.61	60.98	61.14	42.36	74.00	-31.64	Peak
6 p	8588.607	9.82	36.88	60.65	61.46	47.51	74.00	-26.49	Peak



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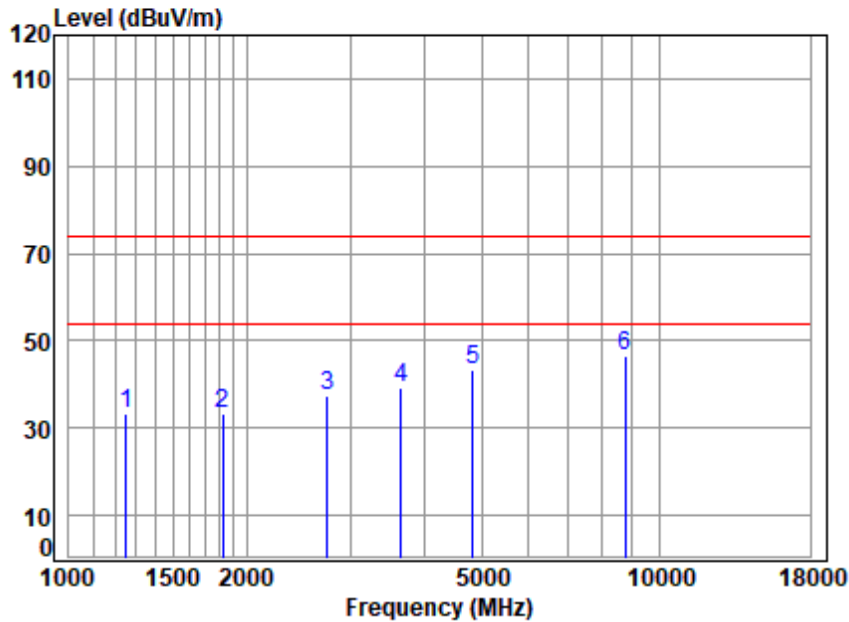
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200481502

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Test Mode: 05; Polarity: Vertical; Hob Position Left



Site : chamber
Condition: 3m VERTICAL
Job No : 04815AT
Mode : 912 RSE TX
: SDR 20M

	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	1252.885	5.36	25.08	61.40	64.18	33.22	74.00	-40.78	Peak
2	1824.000	5.01	27.00	61.58	62.87	33.30	74.00	-40.70	Peak
3	2736.000	5.70	29.70	61.67	63.51	37.24	74.00	-36.76	Peak
4	3648.000	6.43	32.68	61.48	61.71	39.34	74.00	-34.66	Peak
5	4831.962	7.48	34.43	61.02	62.31	43.20	74.00	-30.80	Peak
6 p	8738.852	10.10	36.90	60.74	60.18	46.44	74.00	-27.56	Peak



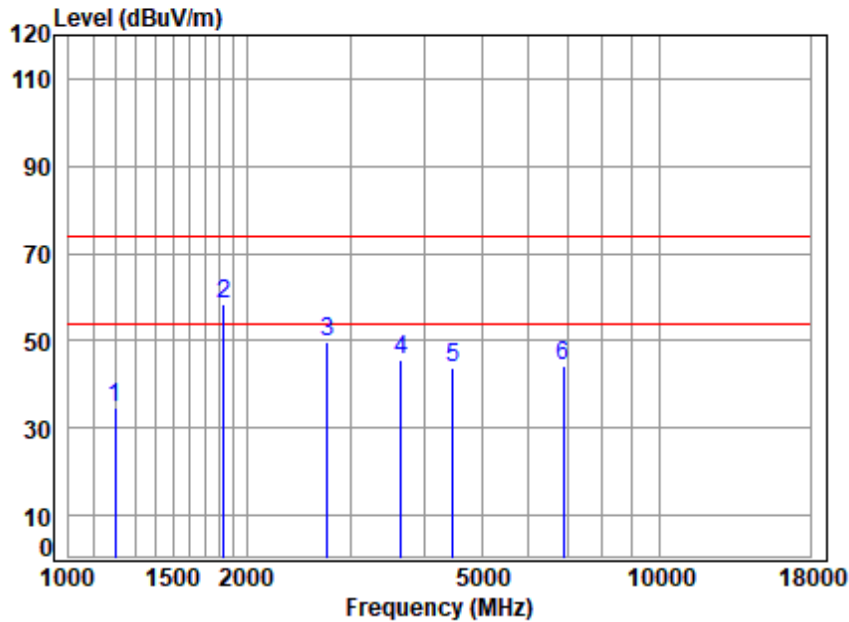
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Test Mode: 05; Polarity: Horizontal; Hob Position Middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04815AT
Mode : 915 RSE TX
: SDR 20M

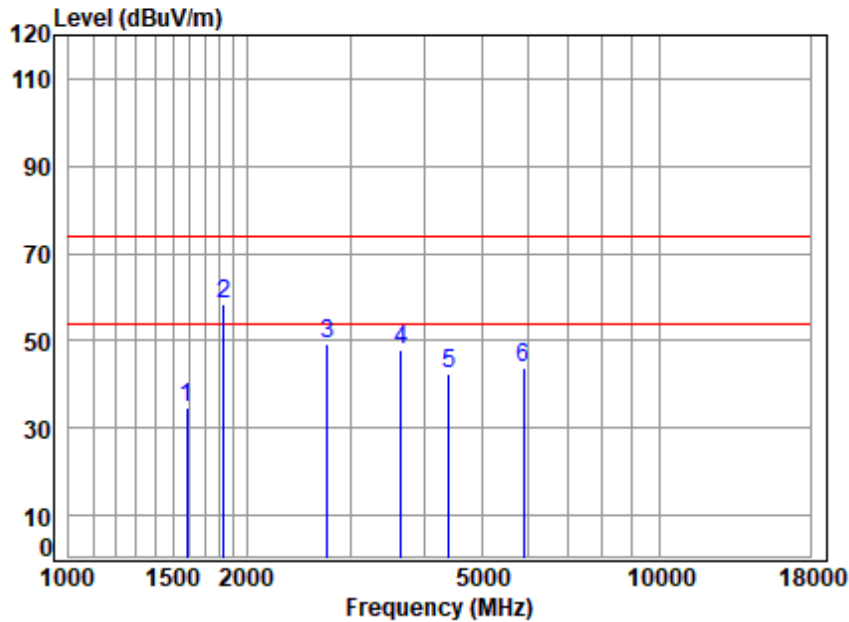
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1196.264	5.48	24.36	61.38	66.04	34.50	74.00	-39.50	peak
2 p	1830.000	5.01	27.00	61.58	88.17	58.60	74.00	-15.40	peak
3	2745.000	5.71	29.70	61.67	75.84	49.58	74.00	-24.42	peak
4	3660.000	6.44	32.76	61.47	68.05	45.78	74.00	-28.22	peak
5	4469.214	7.12	33.97	61.17	63.75	43.67	74.00	-30.33	peak
6	6874.906	8.66	35.55	60.45	60.33	44.09	74.00	-29.91	peak



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Test Mode: 05; Polarity: Vertical; Hob Position Middle

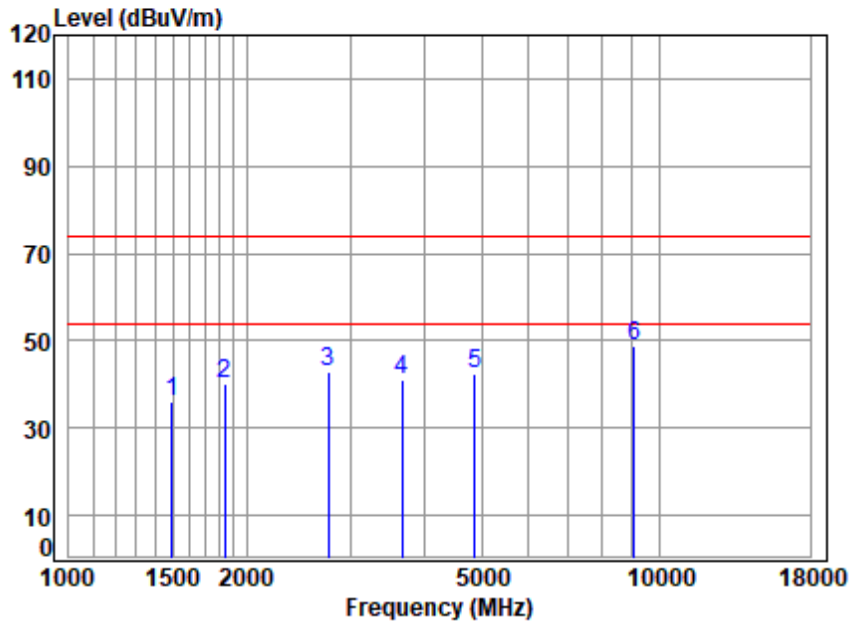


Site : chamber
Condition: 3m VERTICAL
Job No : 04815AT
Mode : 915 RSE TX
: SDR 20M

	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	1583.392	4.92	26.87	61.51	64.35	34.63	74.00	-39.37	peak
2 p	1830.000	5.01	27.00	61.58	88.00	58.43	74.00	-15.57	peak
3	2745.000	5.71	29.70	61.67	75.76	49.50	74.00	-24.50	peak
4	3660.000	6.44	32.76	61.47	70.33	48.06	74.00	-25.94	peak
5	4405.090	7.07	34.74	61.20	61.66	42.27	74.00	-31.73	peak
6	5898.442	8.68	34.59	60.64	61.12	43.75	74.00	-30.25	peak



Test Mode: 05; Polarity: Horizontal; Modulation: 802.11be(26 RUMax)



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04815AT
Mode : 918 RSE TX
: SDR 20M

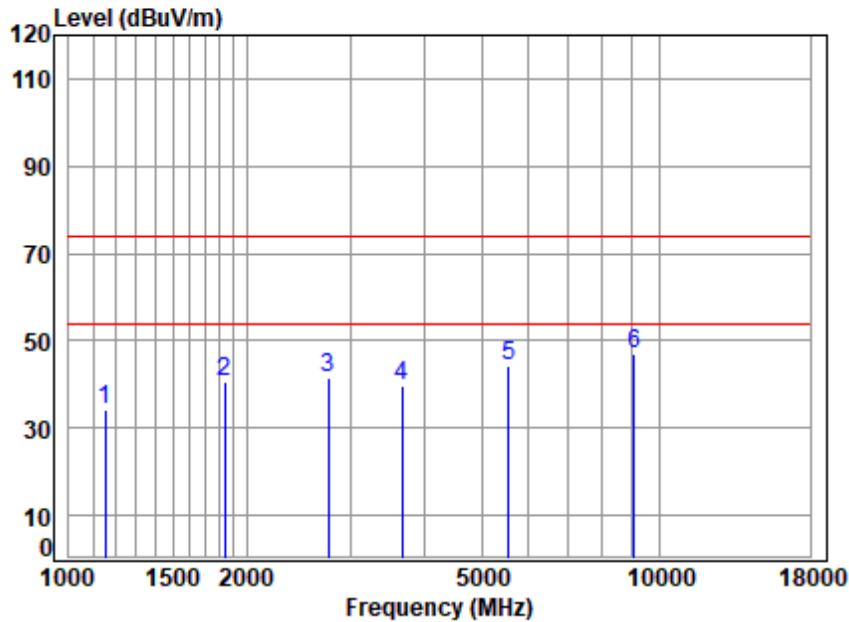
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1494.455	4.90	26.64	61.49	65.89	35.94	74.00	-38.06	Peak
2	1836.000	5.01	27.00	61.58	69.92	40.35	74.00	-33.65	Peak
3	2754.000	5.72	29.71	61.67	69.14	42.90	74.00	-31.10	Peak
4	3672.000	6.46	32.83	61.47	63.20	41.02	74.00	-32.98	Peak
5	4874.043	7.52	34.60	61.00	61.38	42.50	74.00	-31.50	Peak
6 p	9073.460	10.58	36.95	60.94	62.14	48.73	74.00	-25.27	Peak



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Test Mode: 05; Polarity: Vertical; Modulation: 802.11be(26 RUMax)



Site : chamber
Condition: 3m VERTICAL
Job No : 04815AT
Mode : 918 RSE TX
: SDR 20M

	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	1152.148	5.58	23.92	61.37	66.08	34.21	74.00	-39.79	Peak
2	1836.000	5.01	27.00	61.58	70.10	40.53	74.00	-33.47	Peak
3	2754.000	5.72	29.71	61.67	67.77	41.53	74.00	-32.47	Peak
4	3672.000	6.46	32.83	61.47	61.72	39.54	74.00	-34.46	Peak
5	5551.069	8.35	34.70	60.76	62.15	44.44	74.00	-29.56	Peak
6 p	9073.460	10.58	36.95	60.94	60.39	46.98	74.00	-27.02	Peak



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7.4 Conducted Peak Output Power

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

Test Method: ANSI C63.10 (2013) Section 11.9.2

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

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C

Humidity: 36.3 % RH

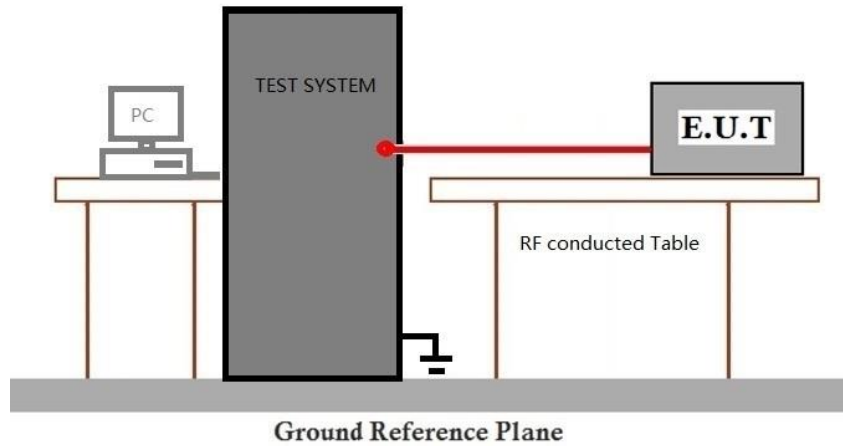
Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (Sub2G SDR_1.4MHz)_Keep the EUT in transmitting mode.
Final test	02	TX mode (Sub2G SDR_3MHz)_Keep the EUT in transmitting mode.
Final test	03	TX mode (Sub2G SDR_5MHz)_Keep the EUT in transmitting mode.
Final test	04	TX mode (Sub2G SDR_10MHz)_Keep the EUT in transmitting mode.
Final test	05	TX mode (Sub2G SDR_20MHz)_Keep the EUT in transmitting mode.



7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details



7.5 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

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C

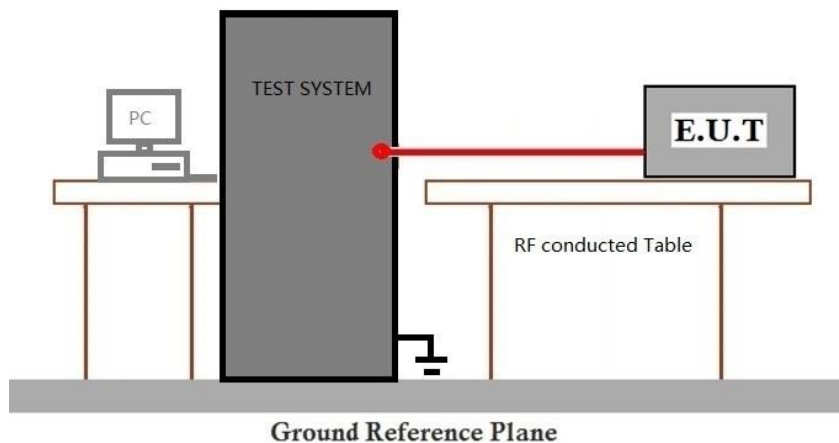
Humidity: 36.3 % RH

Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (Sub2G SDR_1.4MHz)_Keep the EUT in transmitting mode.
Final test	02	TX mode (Sub2G SDR_3MHz)_Keep the EUT in transmitting mode.
Final test	03	TX mode (Sub2G SDR_5MHz)_Keep the EUT in transmitting mode.
Final test	04	TX mode (Sub2G SDR_10MHz)_Keep the EUT in transmitting mode.
Final test	05	TX mode (Sub2G SDR_20MHz)_Keep the EUT in transmitting mode.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.6 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

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C

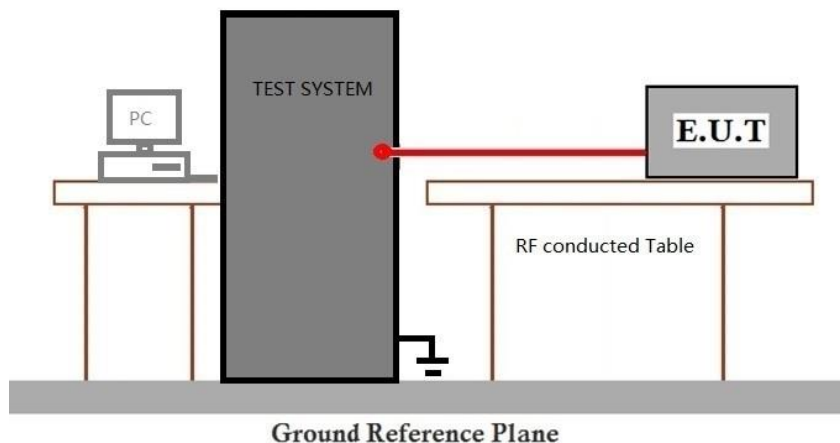
Humidity: 36.3 % RH

Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (Sub2G SDR_1.4MHz)_Keep the EUT in transmitting mode.
Final test	02	TX mode (Sub2G SDR_3MHz)_Keep the EUT in transmitting mode.
Final test	03	TX mode (Sub2G SDR_5MHz)_Keep the EUT in transmitting mode.
Final test	04	TX mode (Sub2G SDR_10MHz)_Keep the EUT in transmitting mode.
Final test	05	TX mode (Sub2G SDR_20MHz)_Keep the EUT in transmitting mode.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



7.7 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)).

7.7.1 E.U.T. Operation

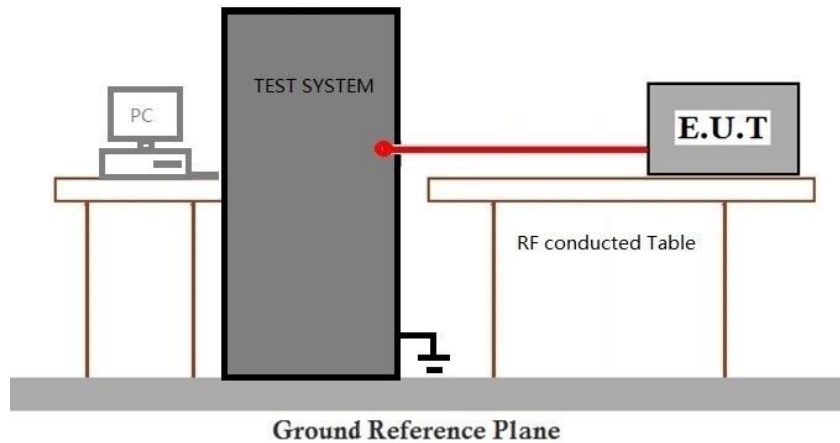
Operating Environment:

Temperature: 20.5 °C Humidity: 36.3 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (Sub2G SDR_1.4MHz)_Keep the EUT in transmitting mode.
Final test	02	TX mode (Sub2G SDR_3MHz)_Keep the EUT in transmitting mode.
Final test	03	TX mode (Sub2G SDR_5MHz)_Keep the EUT in transmitting mode.
Final test	04	TX mode (Sub2G SDR_10MHz)_Keep the EUT in transmitting mode.
Final test	05	TX mode (Sub2G SDR_20MHz)_Keep the EUT in transmitting mode.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.8 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)).

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 20.5 °C

Humidity: 36.3 % RH

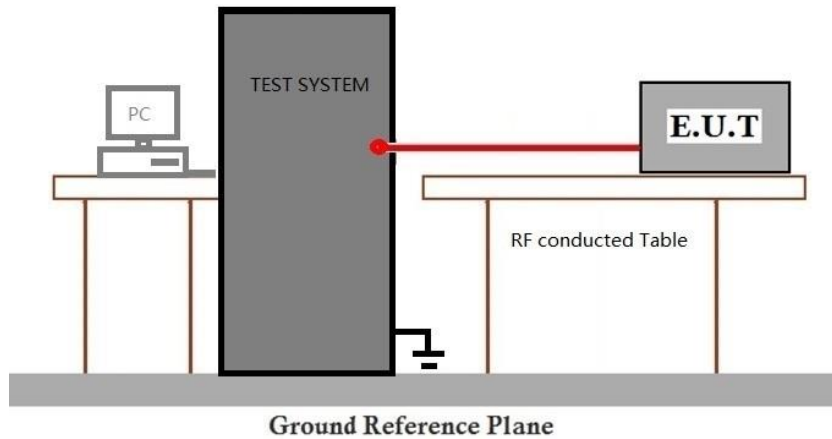
Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (Sub2G SDR_1.4MHz)_Keep the EUT in transmitting mode.
Final test	02	TX mode (Sub2G SDR_3MHz)_Keep the EUT in transmitting mode.
Final test	03	TX mode (Sub2G SDR_5MHz)_Keep the EUT in transmitting mode.
Final test	04	TX mode (Sub2G SDR_10MHz)_Keep the EUT in transmitting mode.
Final test	05	TX mode (Sub2G SDR_20MHz)_Keep the EUT in transmitting mode.



7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details



8 Test Setup Photo

Refer to Setup Photo for SZCR2412004815AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2412004815AT



10 Appendix

1. Duty Cycle

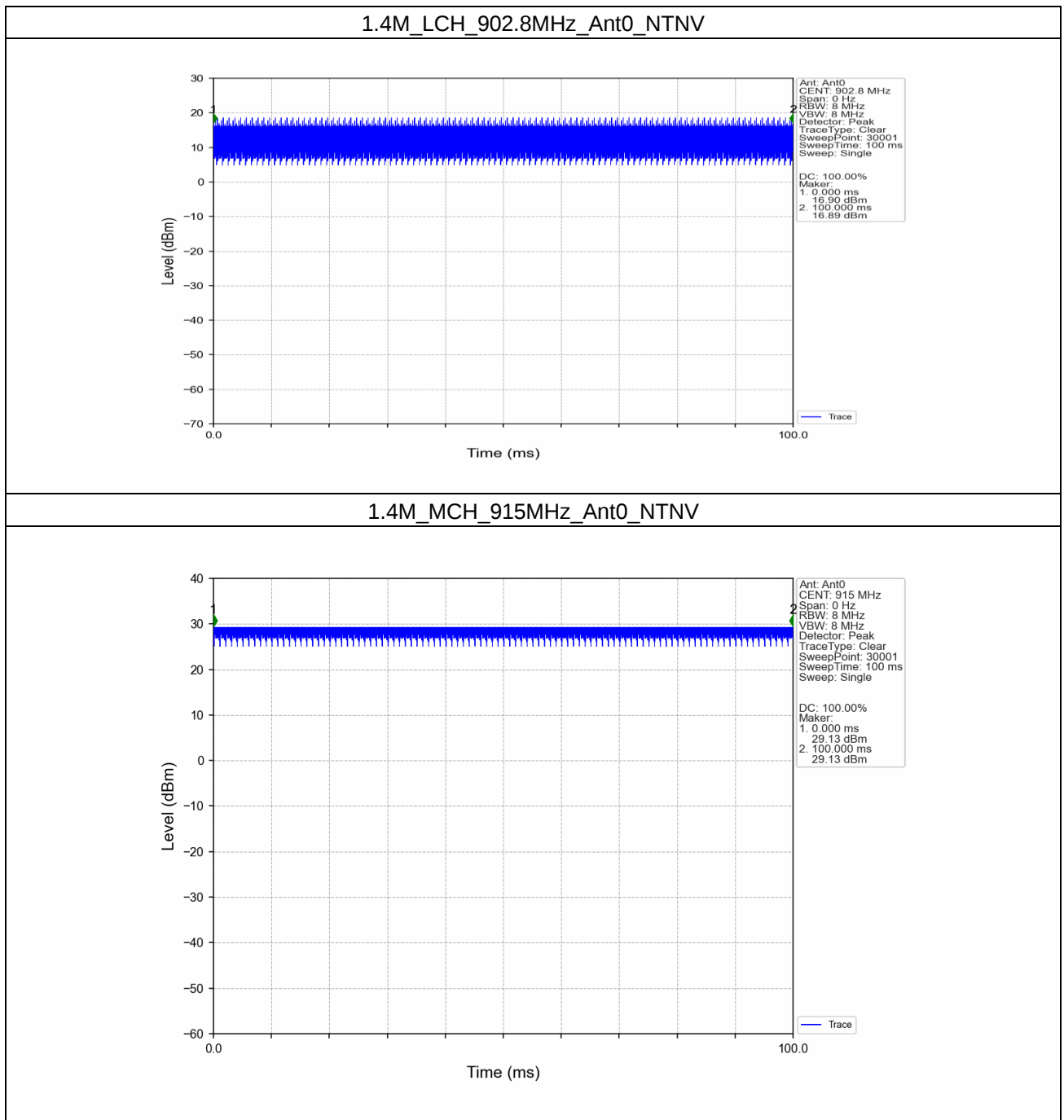
1.1 Test Result

1.1.1 Ant0

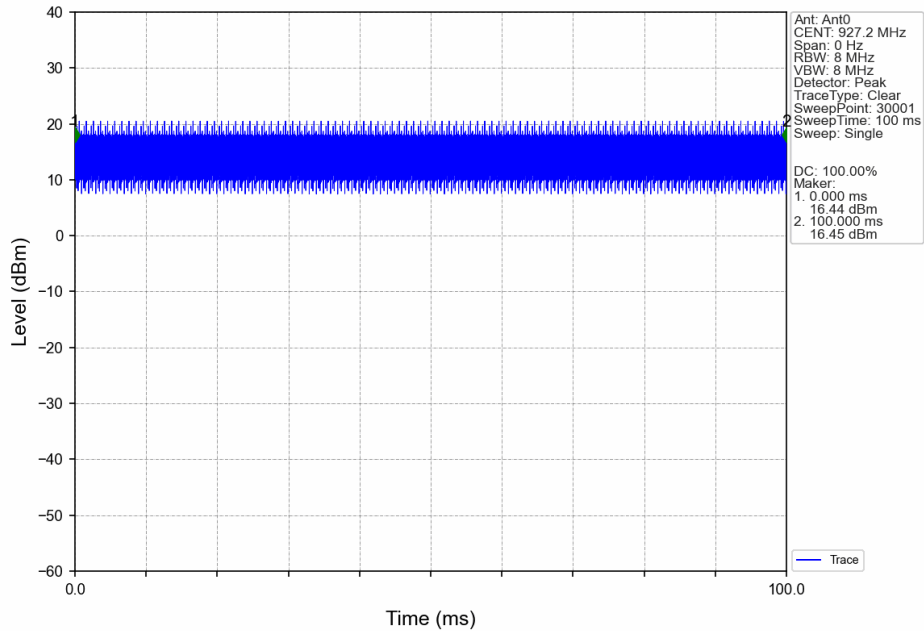
Ant0							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1.4M	MIMO	902.8	100.000	100.000	100.00	0.00	0.00
		915	100.000	100.000	100.00	0.00	0.00
		927.2	100.000	100.000	100.00	0.00	0.00
3M	MIMO	903.6	100.000	100.000	100.00	0.00	0.00
		915	100.000	100.000	100.00	0.00	0.00
		926.4	100.000	100.000	100.00	0.00	0.00
5M	MIMO	904.6	100.000	100.000	100.00	0.00	0.00
		915	100.000	100.000	100.00	0.00	0.00
		925.4	100.000	100.000	100.00	0.00	0.00
10M	MIMO	907	100.000	100.000	100.00	0.00	0.00
		915	100.000	100.000	100.00	0.00	0.00
		923	100.000	100.000	100.00	0.00	0.00
20M	MIMO	912	100.000	100.000	100.00	0.00	0.00
		915	100.000	100.000	100.00	0.00	0.00
		918	100.000	100.000	100.00	0.00	0.00

1.2 Test Graph

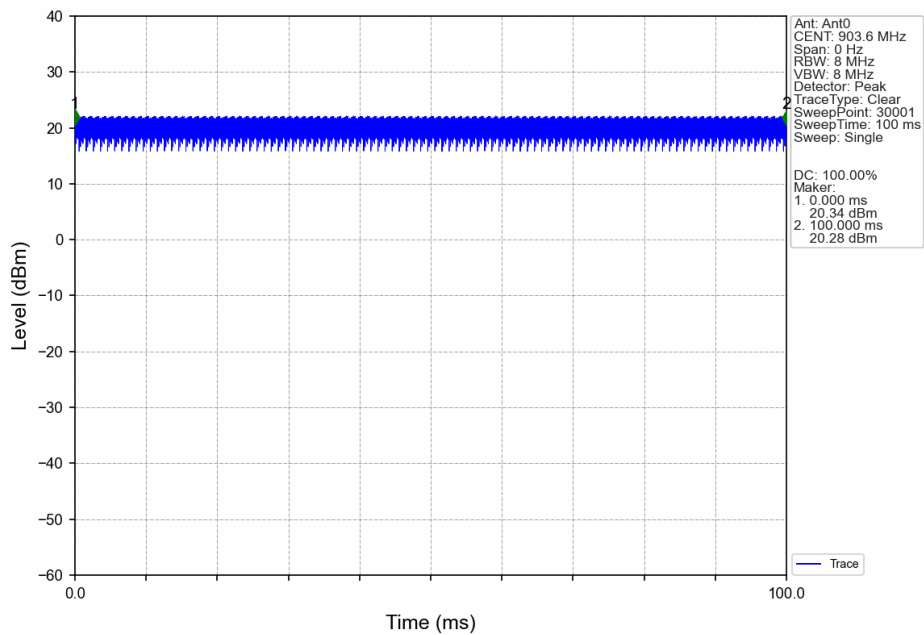
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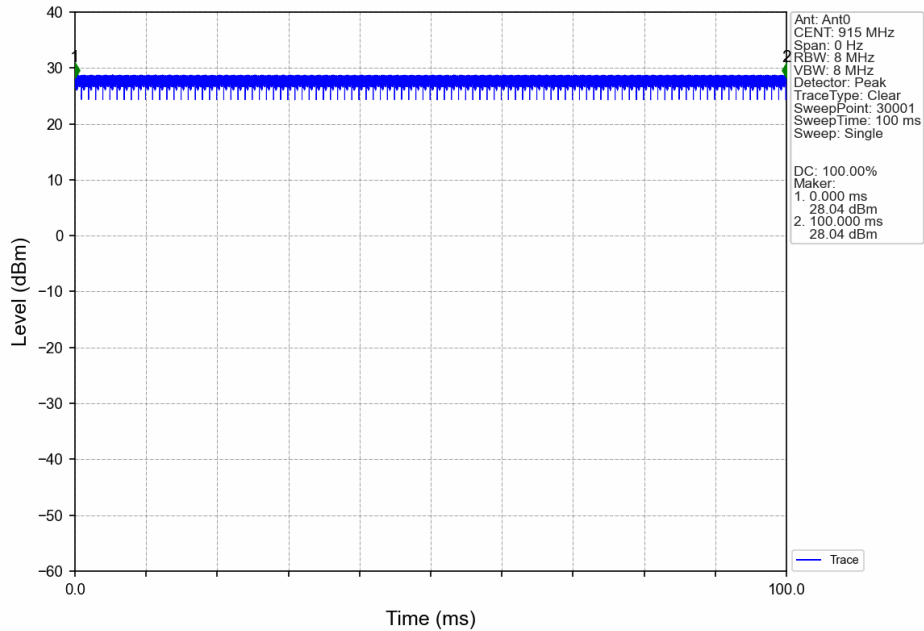
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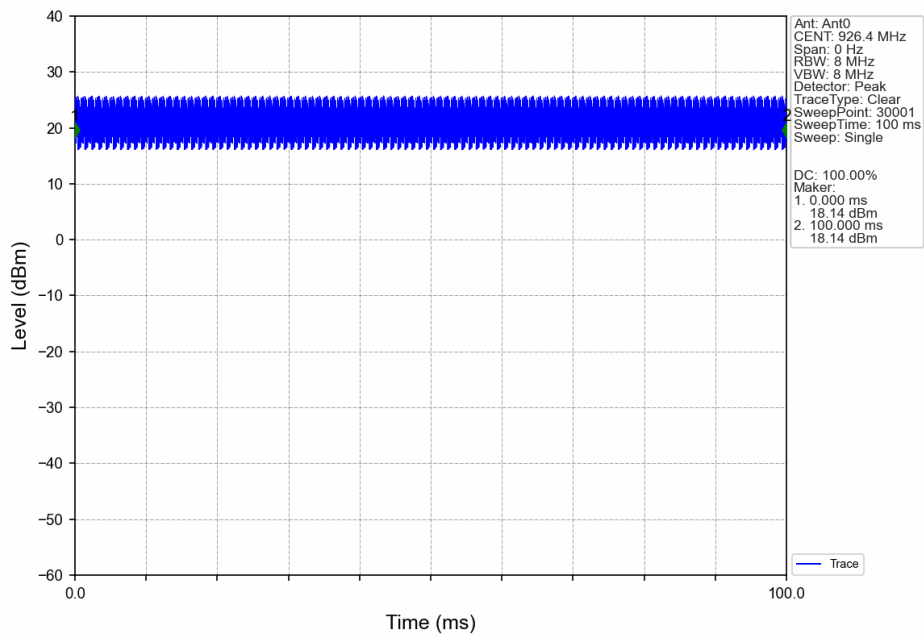
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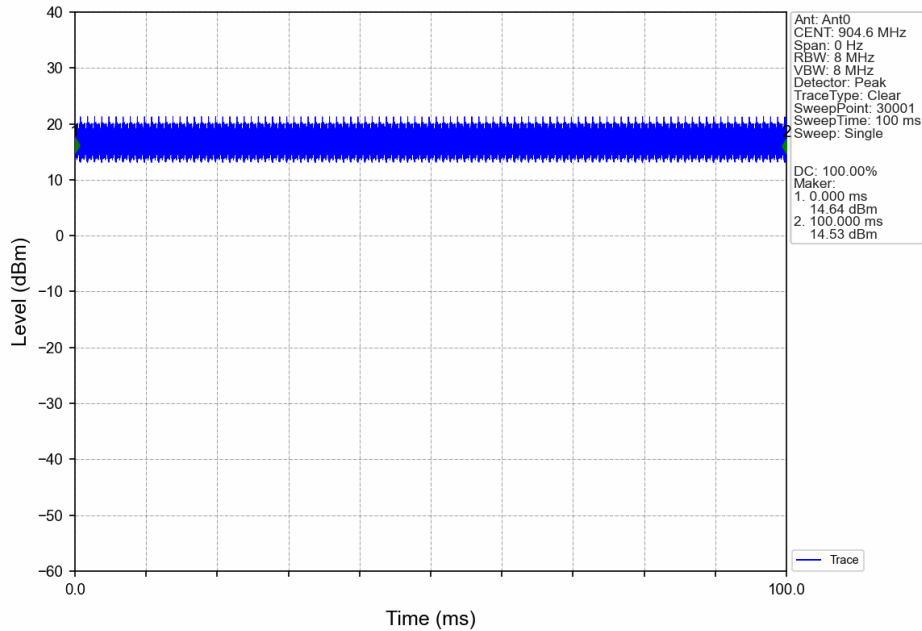
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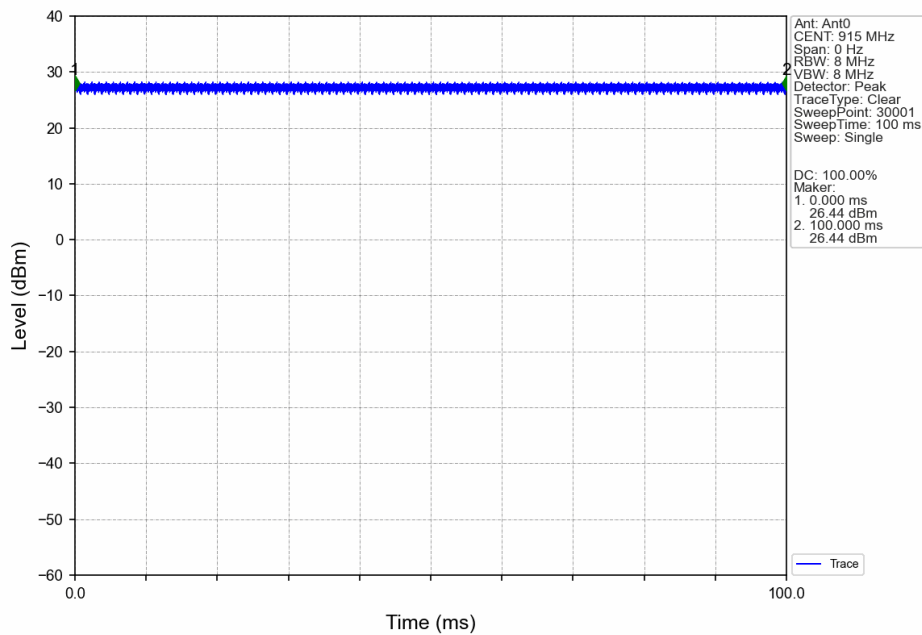
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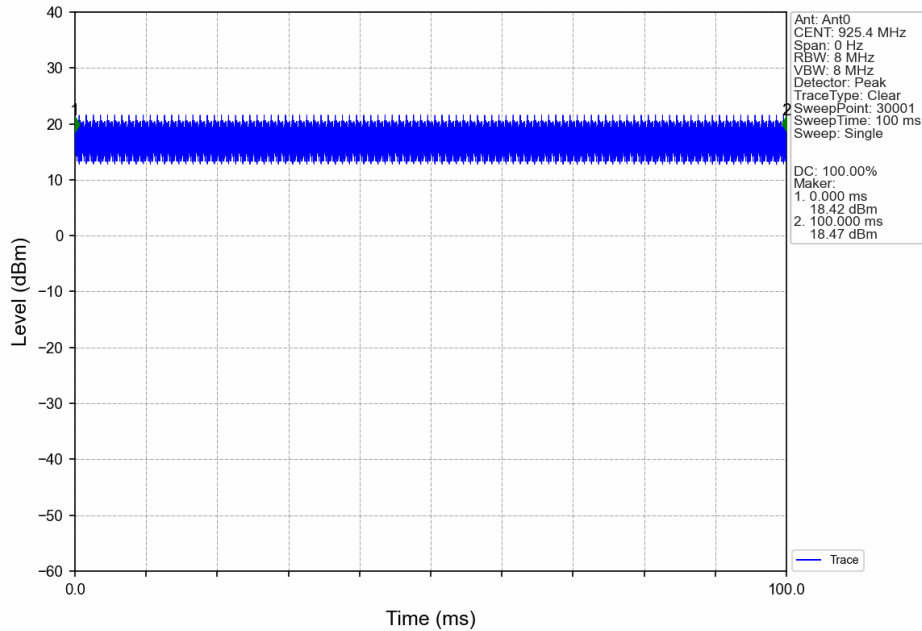
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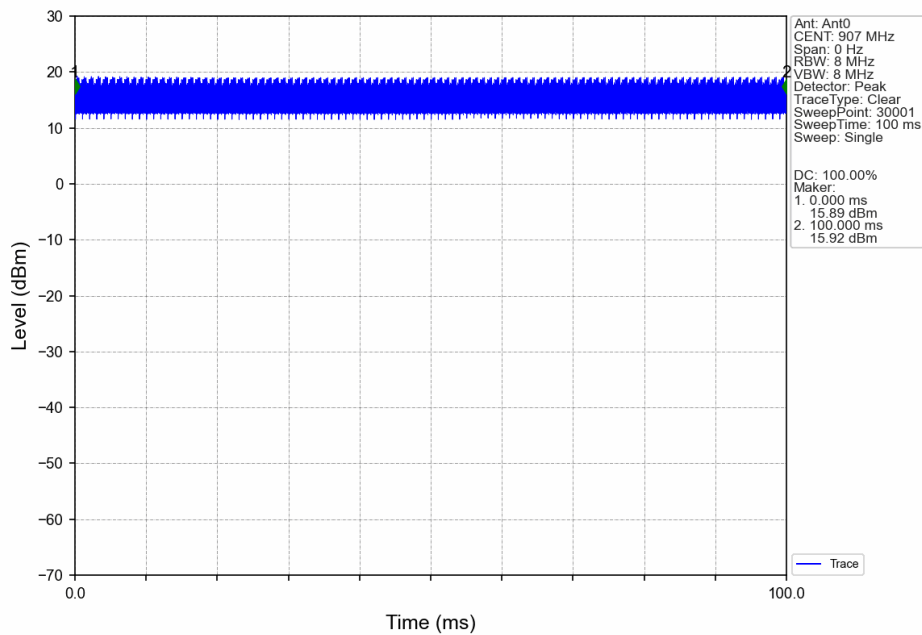
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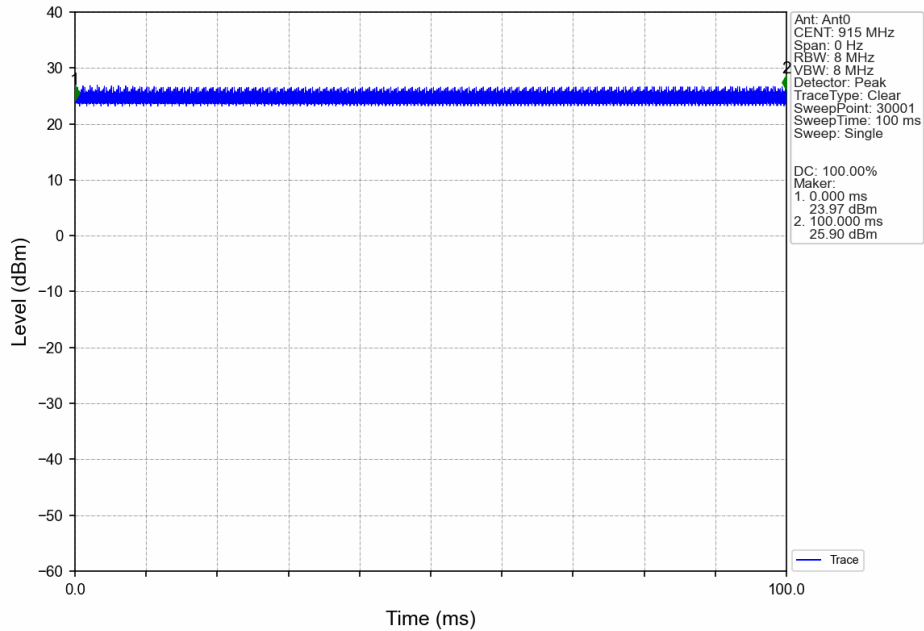
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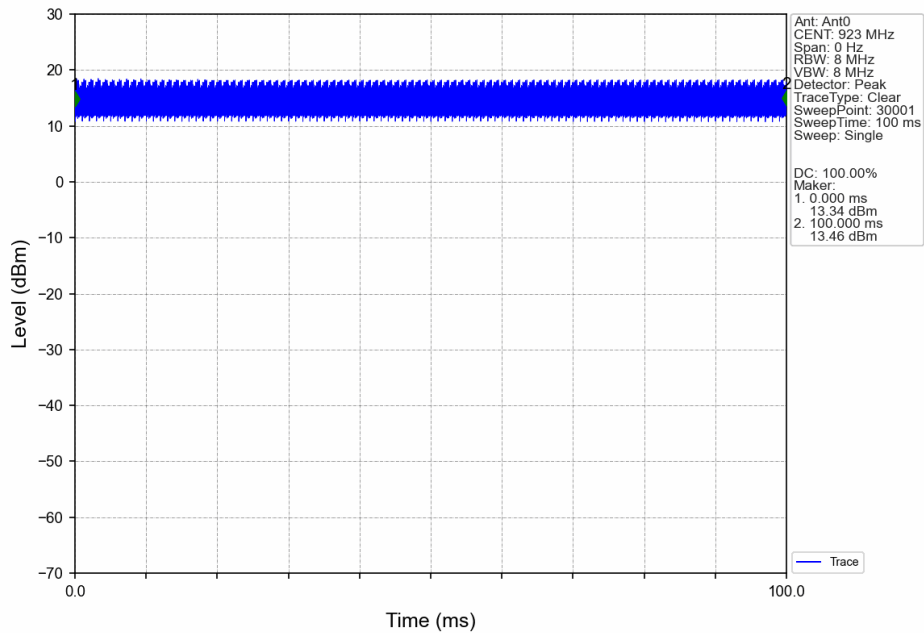
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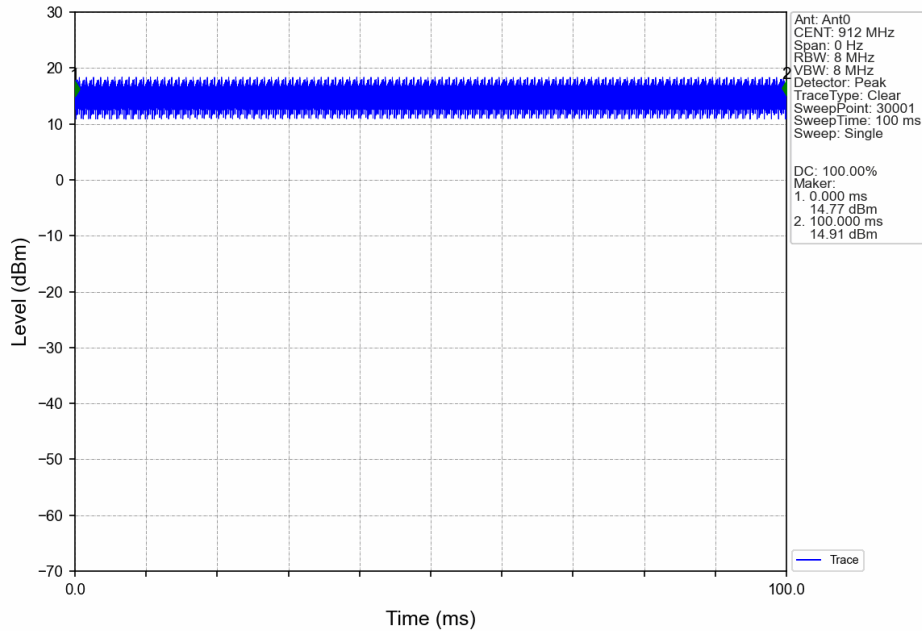
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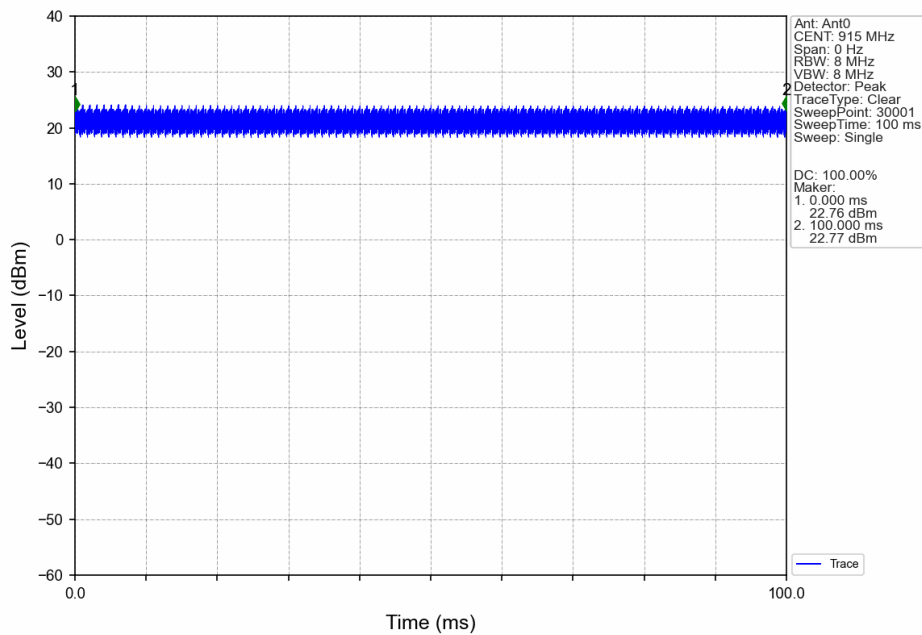
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20M_LCH_912MHz_Ant0_NTNV



20M_MCH_915MHz_Ant0_NTNV

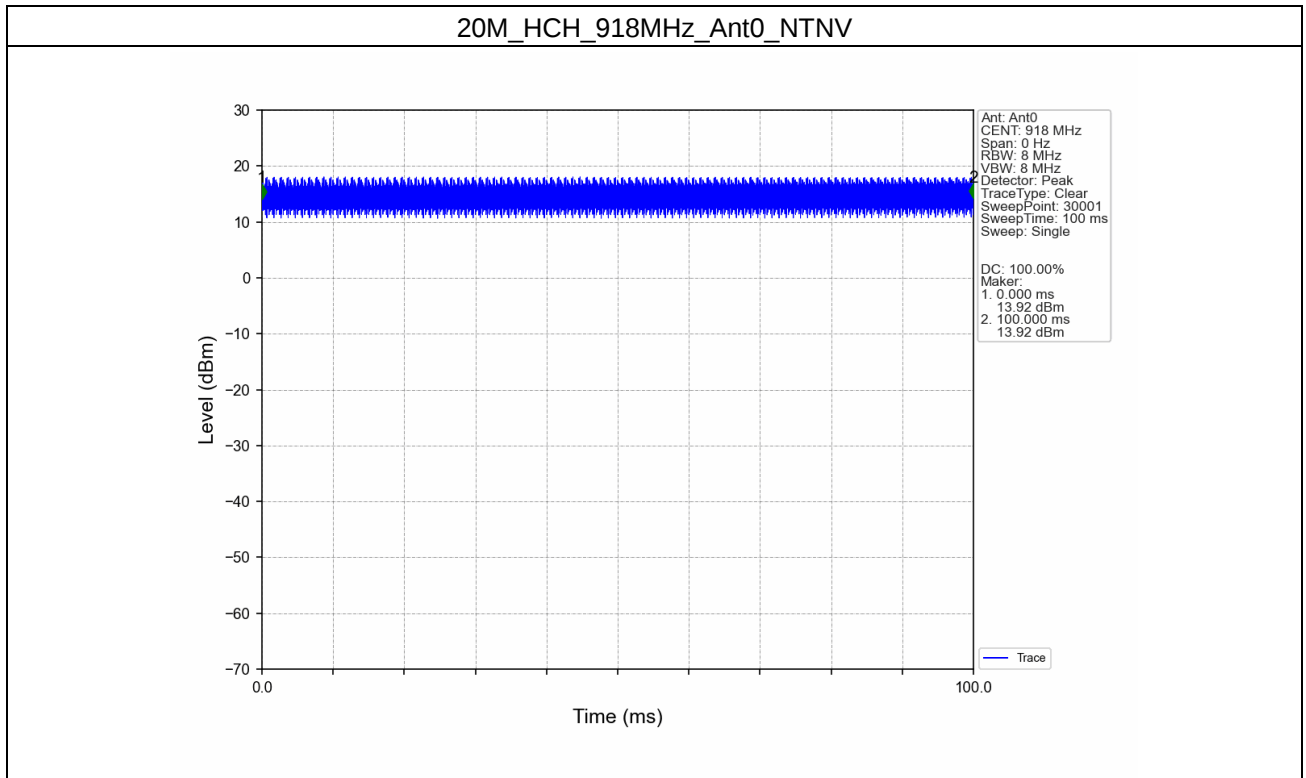


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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1.4M	MIMO	902.8	0	1.289	/	Pass
		915	0	1.933	/	Pass
		927.2	0	1.294	/	Pass
3M	MIMO	903.6	0	2.326	/	Pass
		915	0	2.405	/	Pass
		926.4	0	2.317	/	Pass
5M	MIMO	904.6	0	4.487	/	Pass
		915	0	4.518	/	Pass
		925.4	0	4.485	/	Pass
10M	MIMO	907	0	9.111	/	Pass
		915	0	9.119	/	Pass
		923	0	9.106	/	Pass
20M	MIMO	912	0	18.327	/	Pass
		915	0	18.378	/	Pass
		918	0	18.324	/	Pass

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200481502

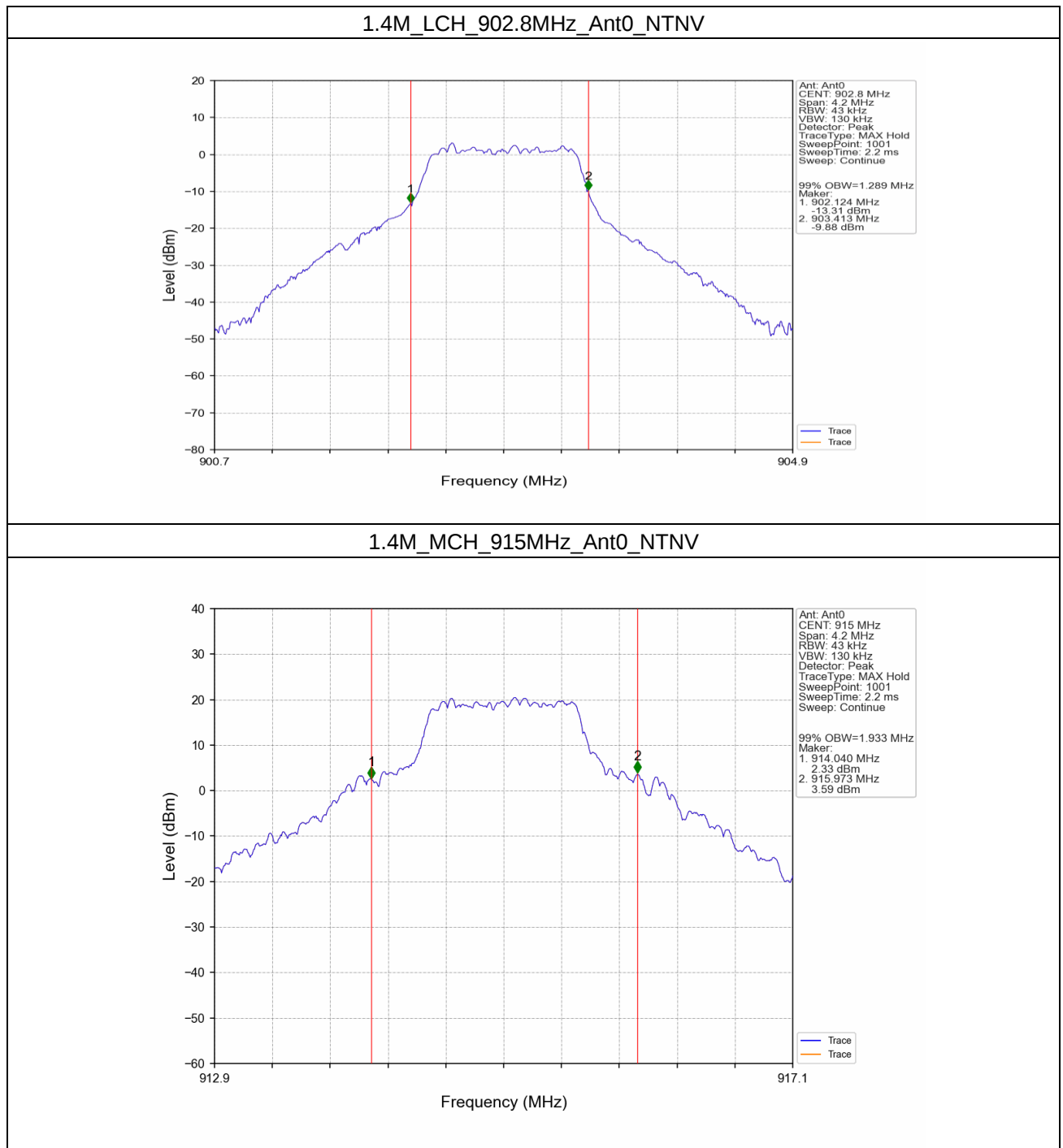
Page: 67 of 150

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1.4M	MIMO	902.8	0	1.116	≥ 0.5	Pass
		915	0	1.123	≥ 0.5	Pass
		927.2	0	1.118	≥ 0.5	Pass
3M	MIMO	903.6	0	2.229	≥ 0.5	Pass
		915	0	2.228	≥ 0.5	Pass
		926.4	0	2.213	≥ 0.5	Pass
5M	MIMO	904.6	0	4.375	≥ 0.5	Pass
		915	0	4.407	≥ 0.5	Pass
		925.4	0	4.358	≥ 0.5	Pass
10M	MIMO	907	0	9.047	≥ 0.5	Pass
		915	0	9.059	≥ 0.5	Pass
		923	0	9.047	≥ 0.5	Pass
20M	MIMO	912	0	18.075	≥ 0.5	Pass
		915	0	18.067	≥ 0.5	Pass
		918	0	18.077	≥ 0.5	Pass

2.2 Test Graph

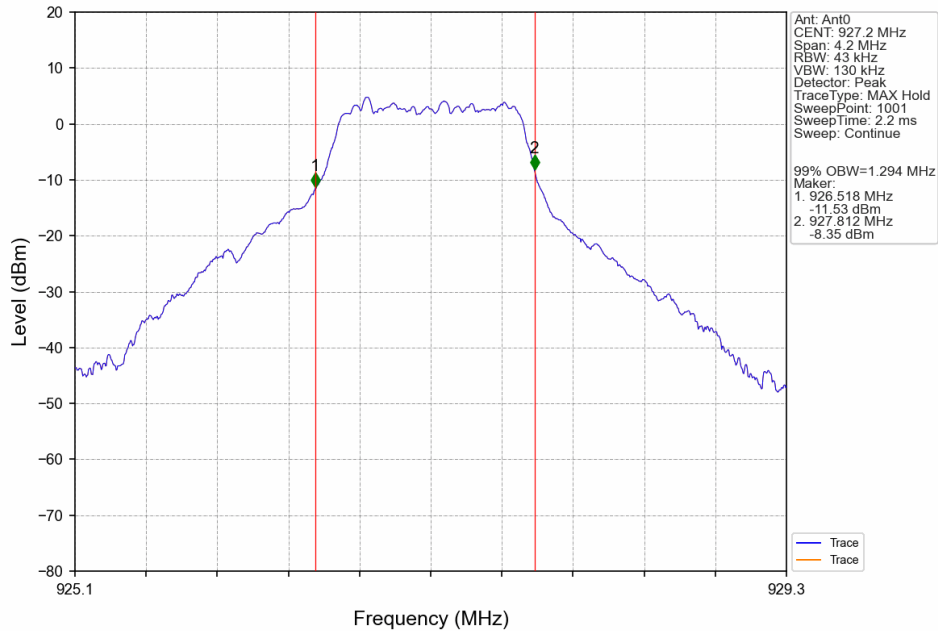
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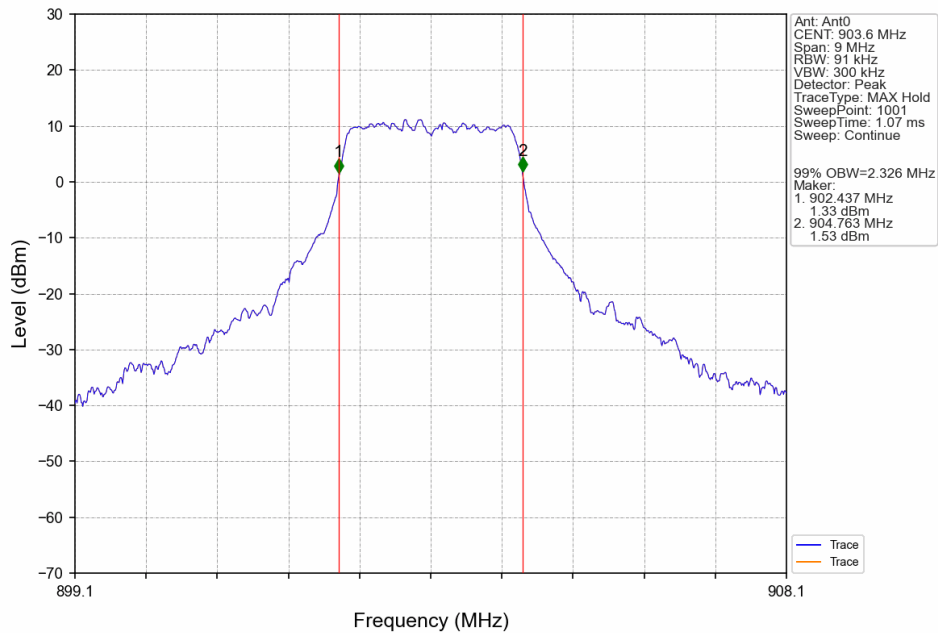
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1.4M_HCH_927.2MHz_Ant0_NTNV



3M_LCH_903.6MHz_Ant0_NTNV



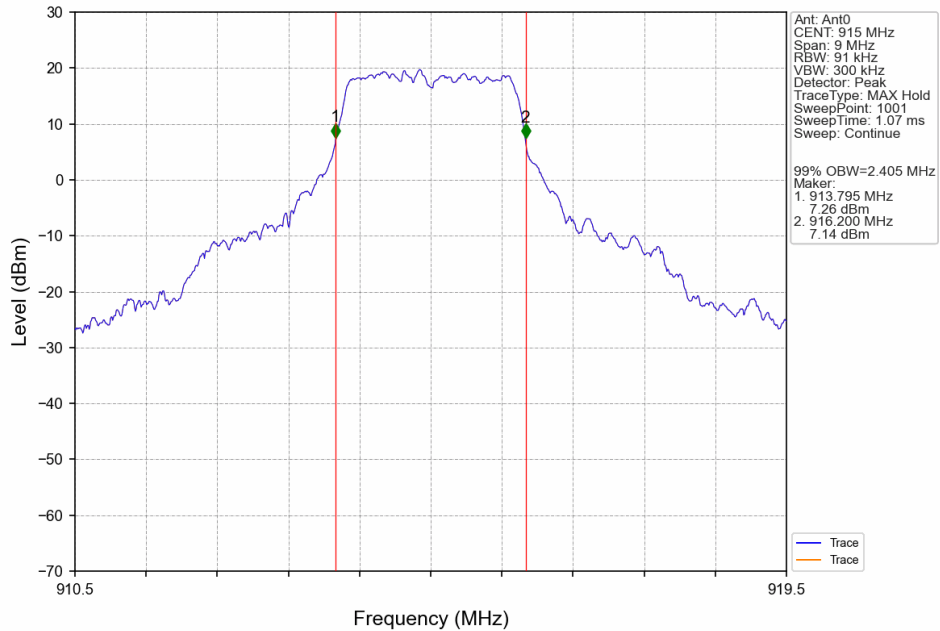
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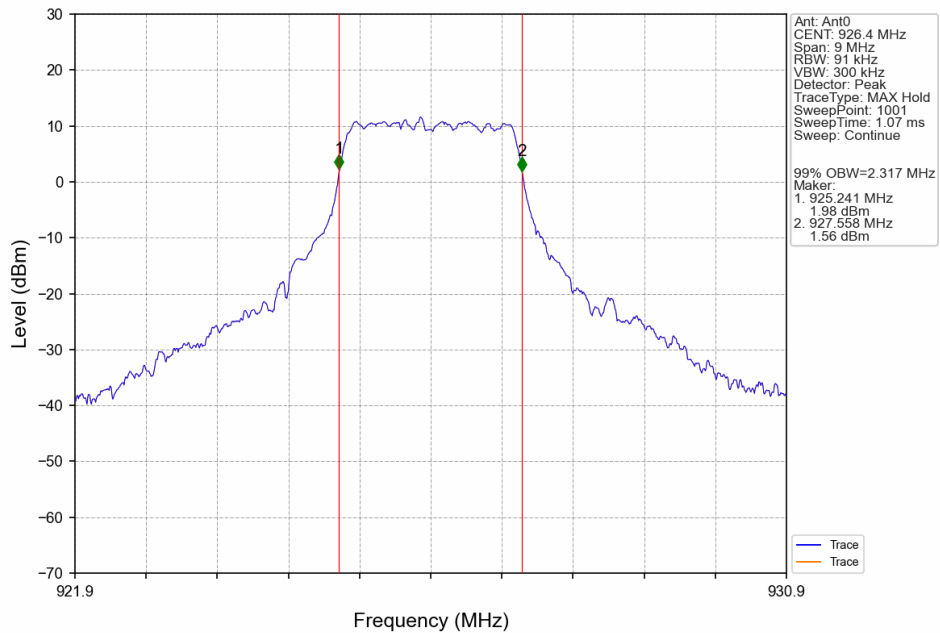
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3M_MCH_915MHz_Ant0_NTNV



3M_HCH_926.4MHz_Ant0_NTNV



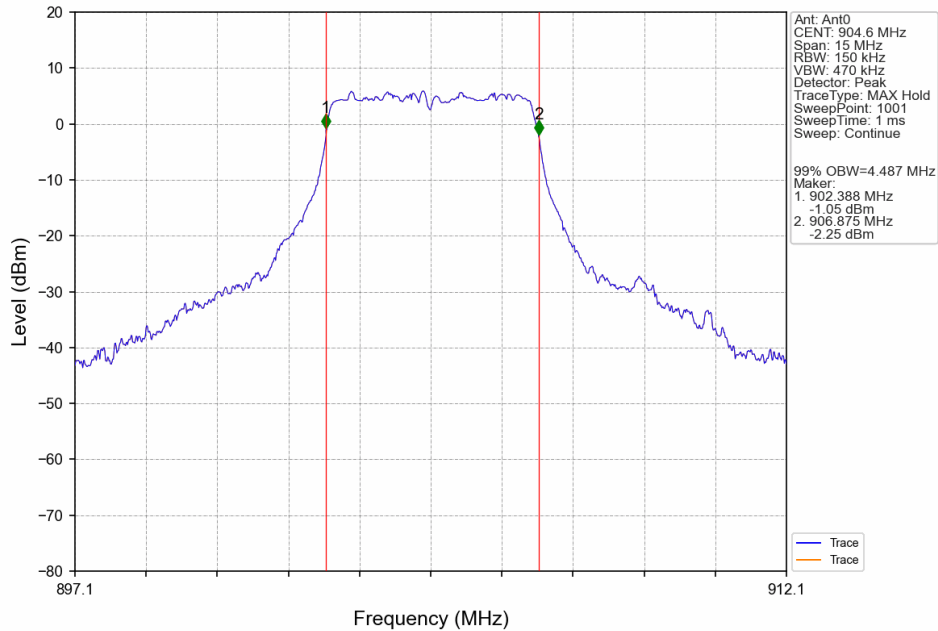
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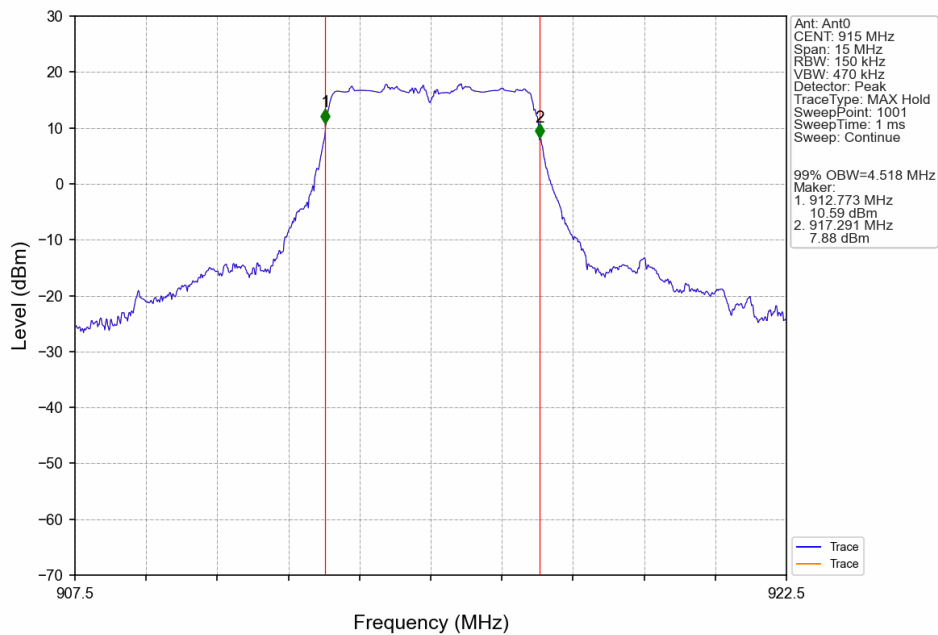
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5M_LCH_904.6MHz_Ant0_NTNV



5M_MCH_915MHz_Ant0_NTNV



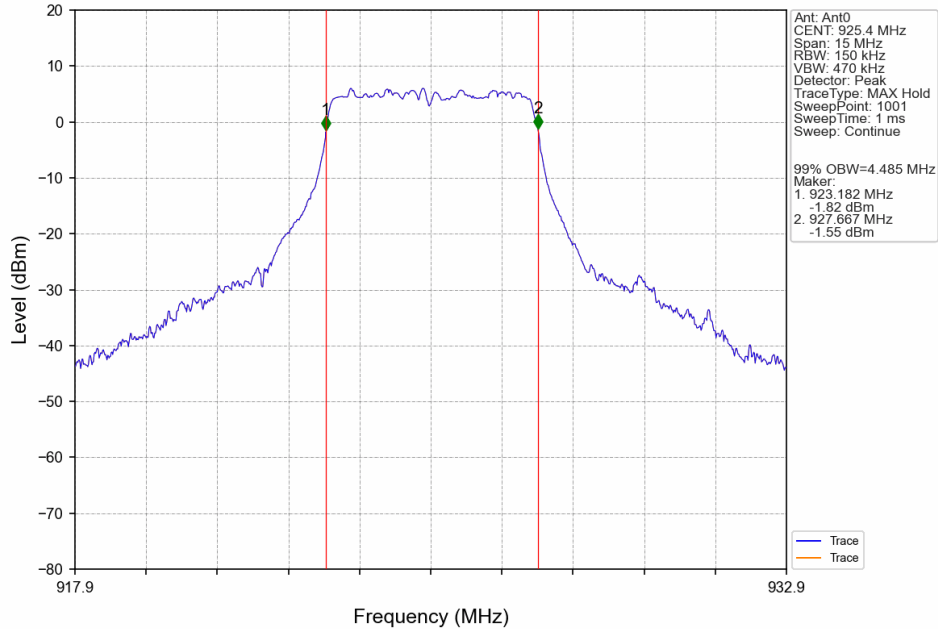
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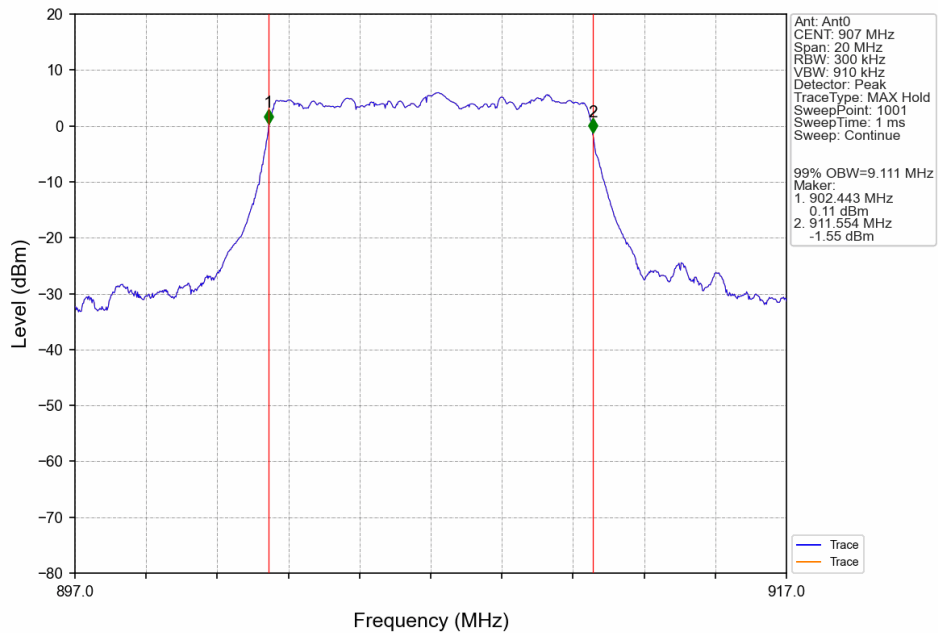
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5M_HCH_925.4MHz_Ant0_NTNV



10M_LCH_907MHz_Ant0_NTNV



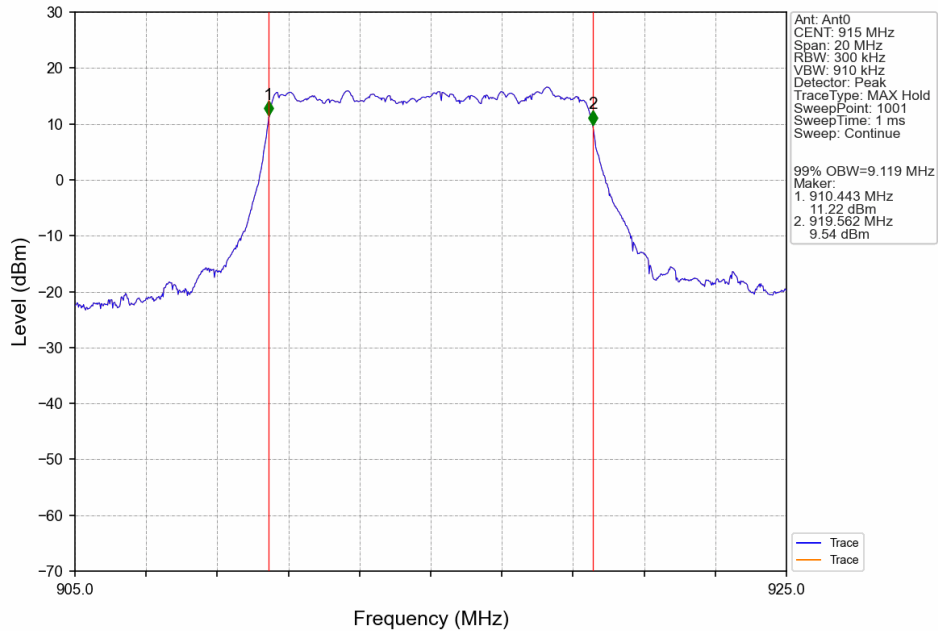
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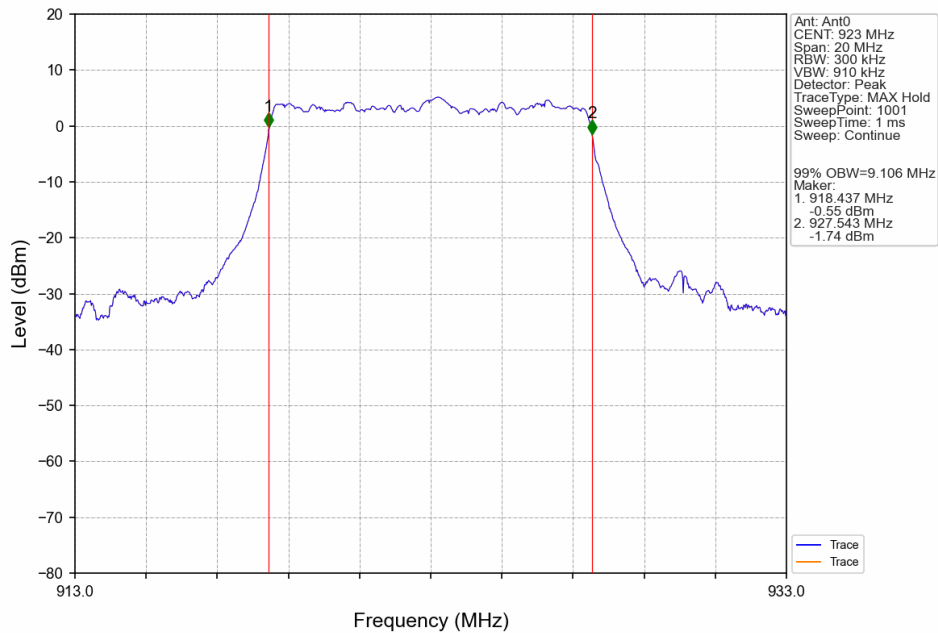
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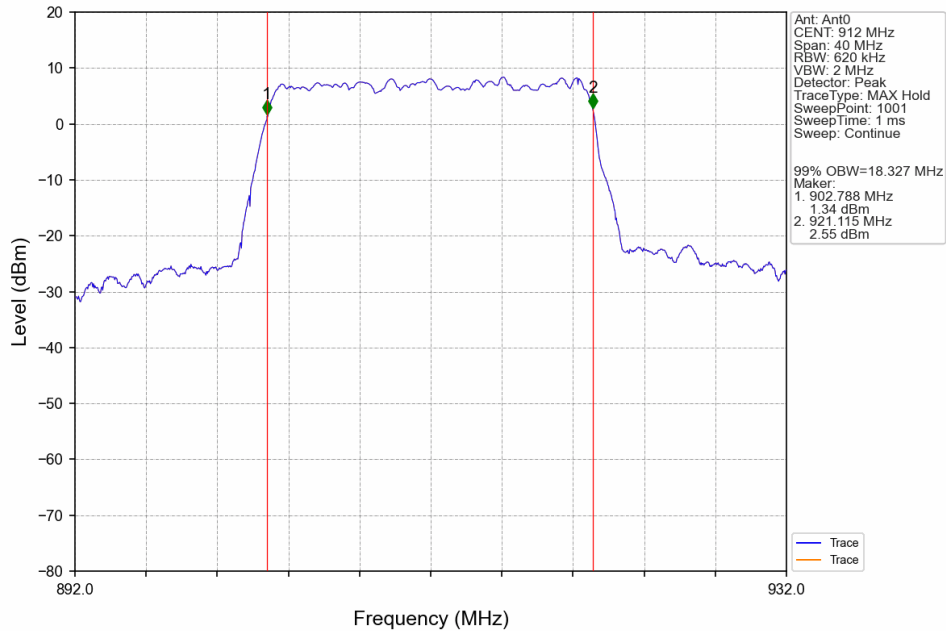
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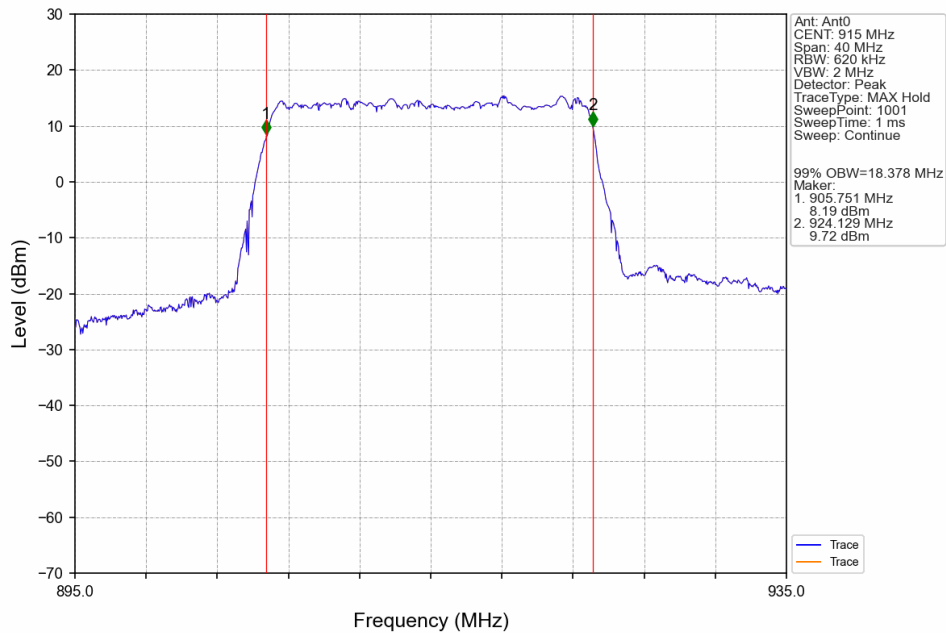
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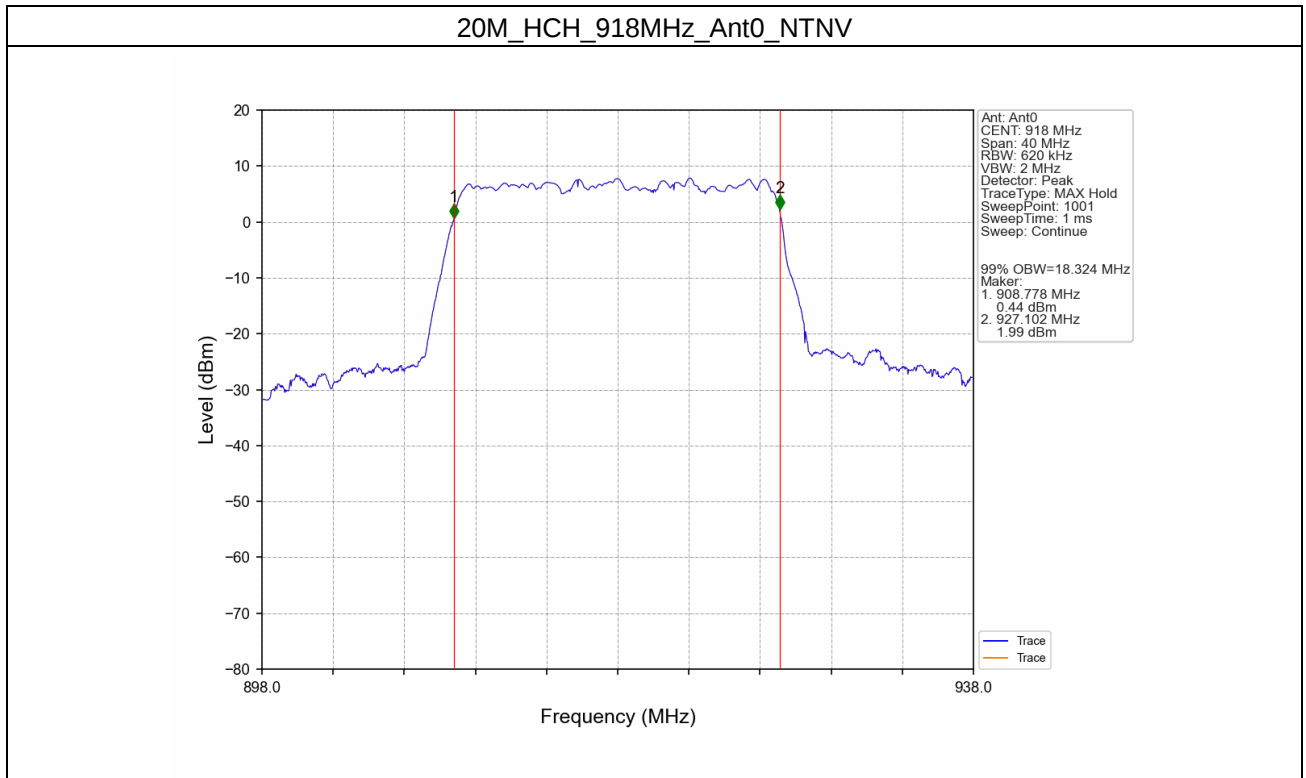


20M_MCH_915MHz_Ant0_NTNV



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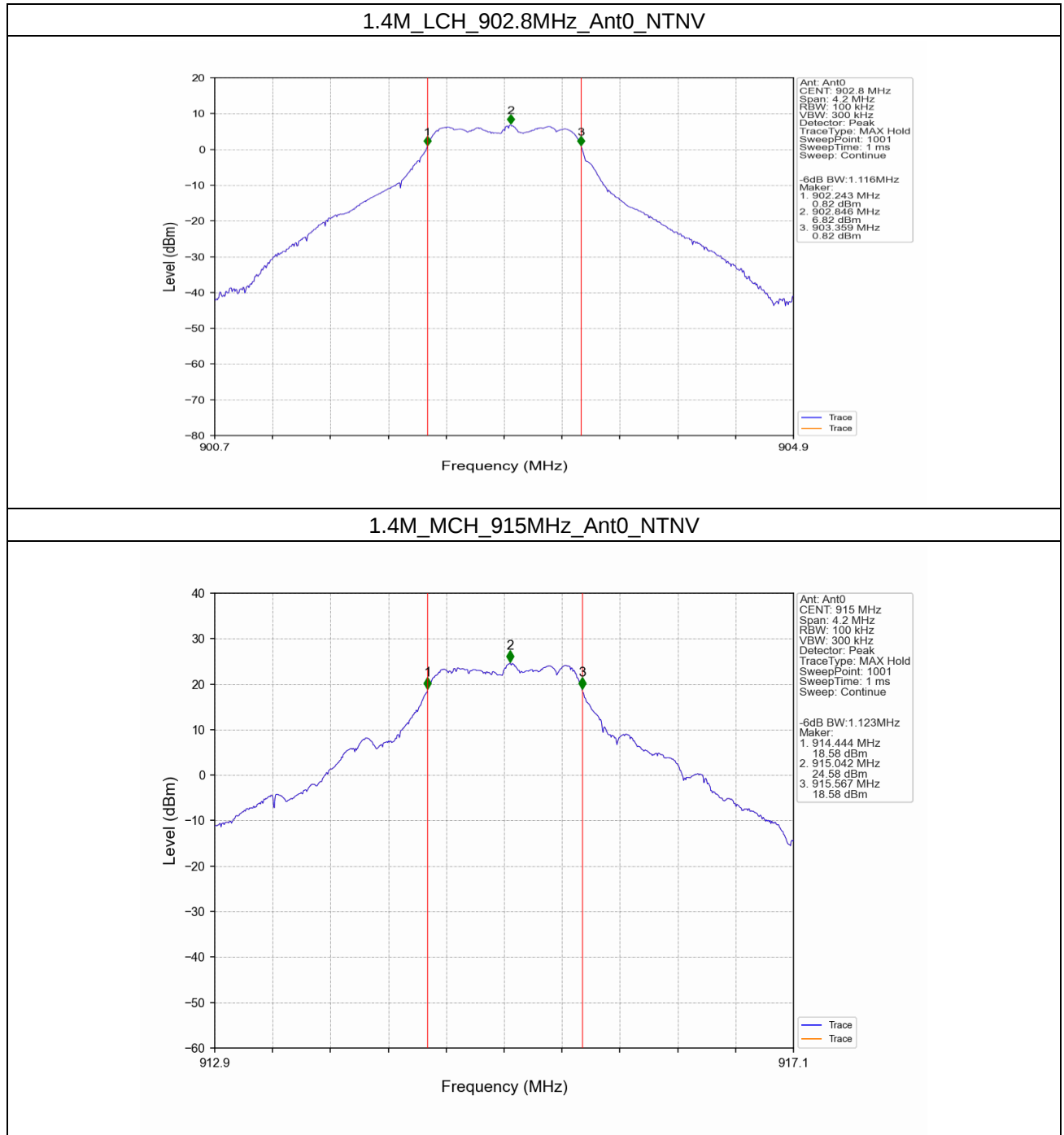
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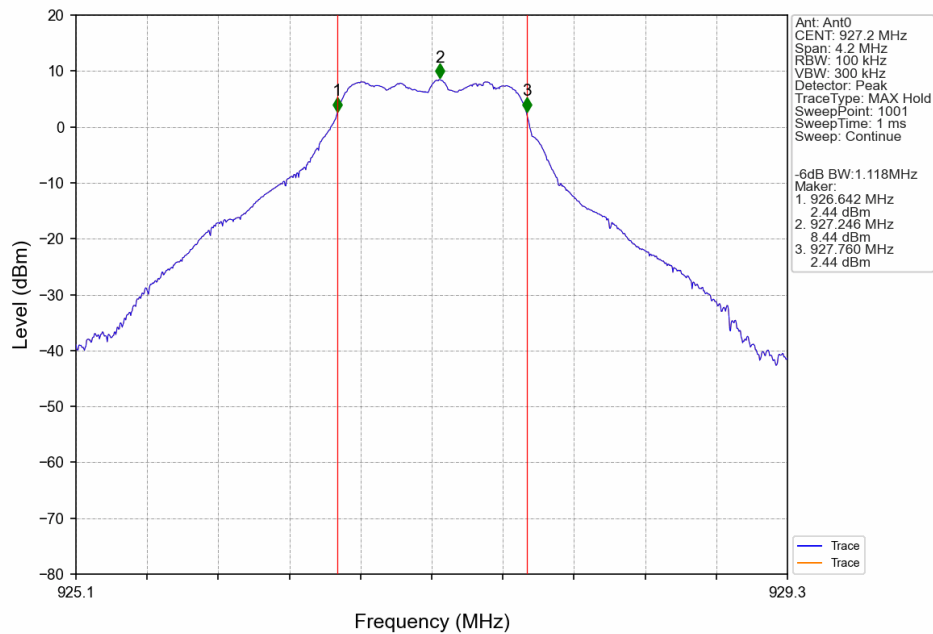
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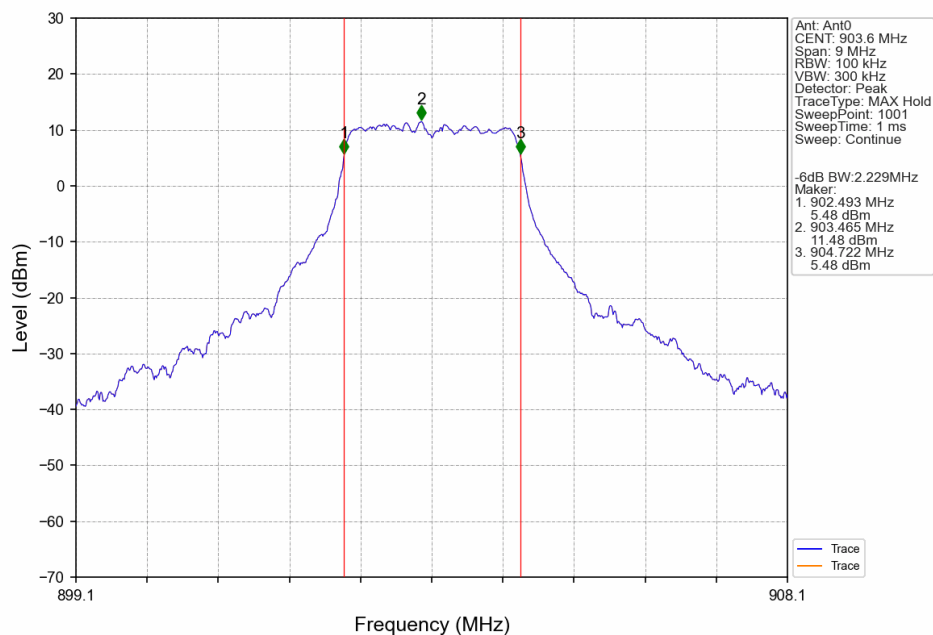
2.2.2 6dB BW



1.4M_HCH_927.2MHz_Ant0_NTNV



3M_LCH_903.6MHz_Ant0_NTNV



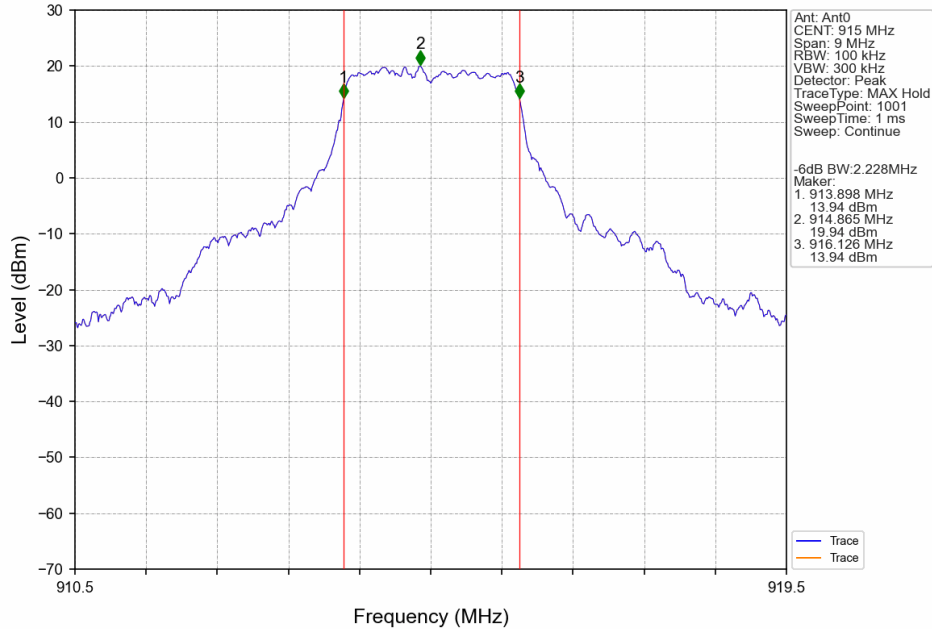
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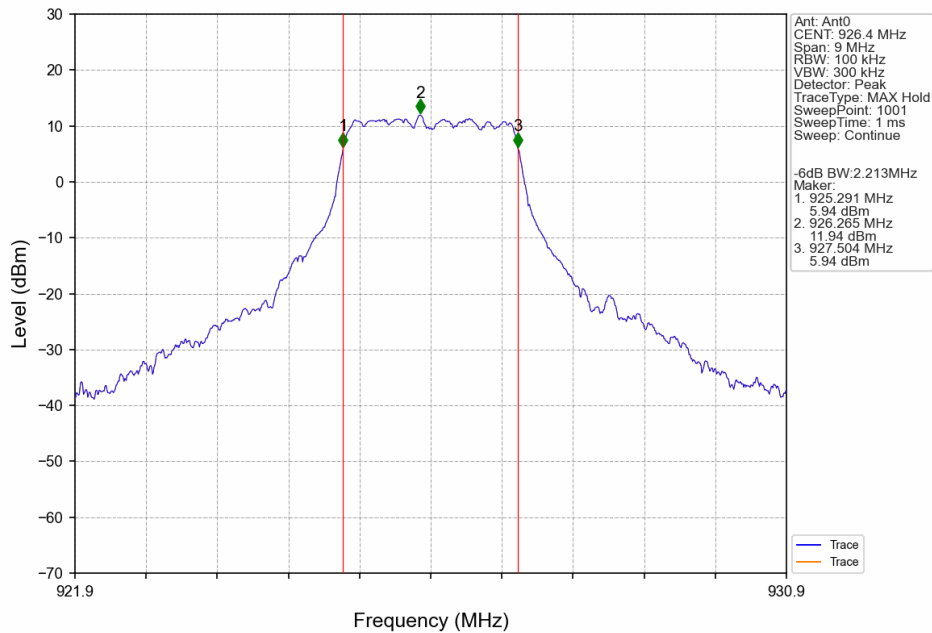
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3M_MCH_915MHz_Ant0_NTNV



3M_HCH_926.4MHz_Ant0_NTNV



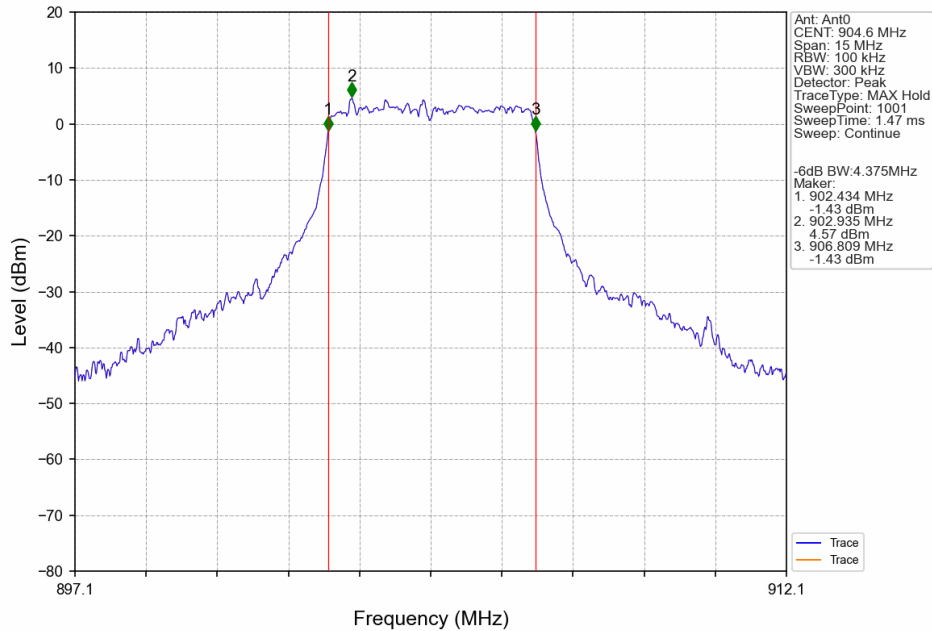
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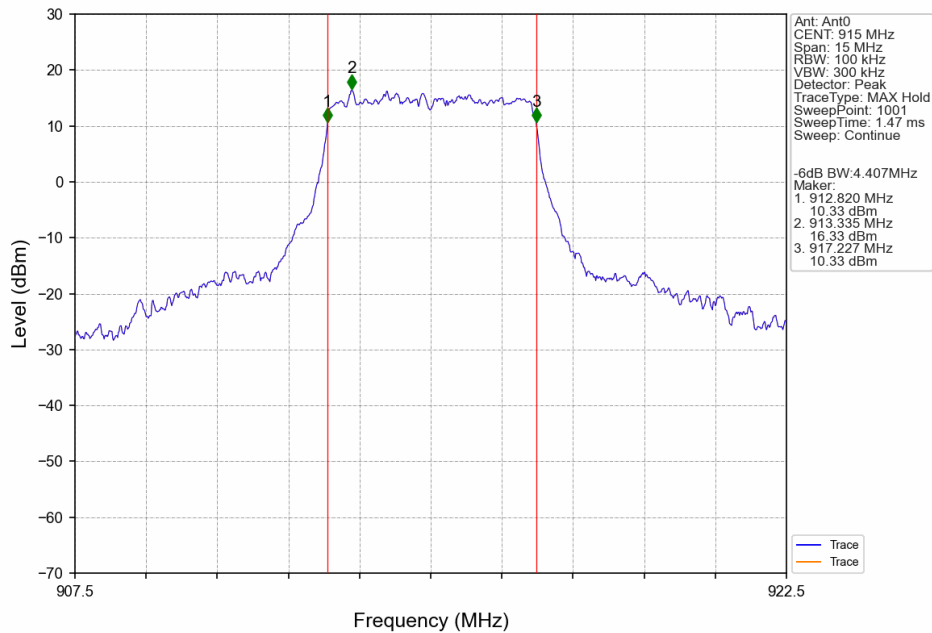
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5M_LCH_904.6MHz_Ant0_NTNV



5M_MCH_915MHz_Ant0_NTNV



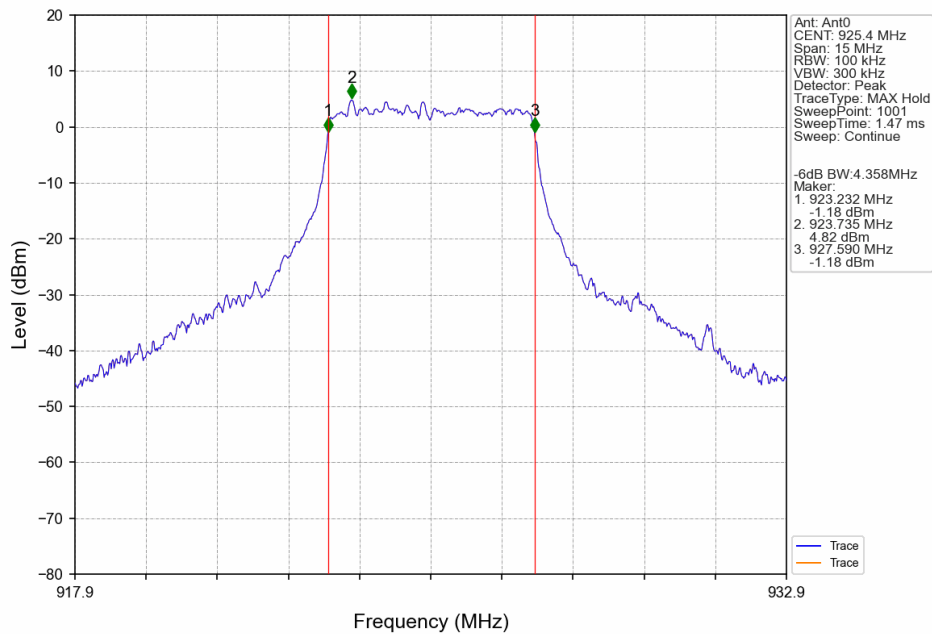
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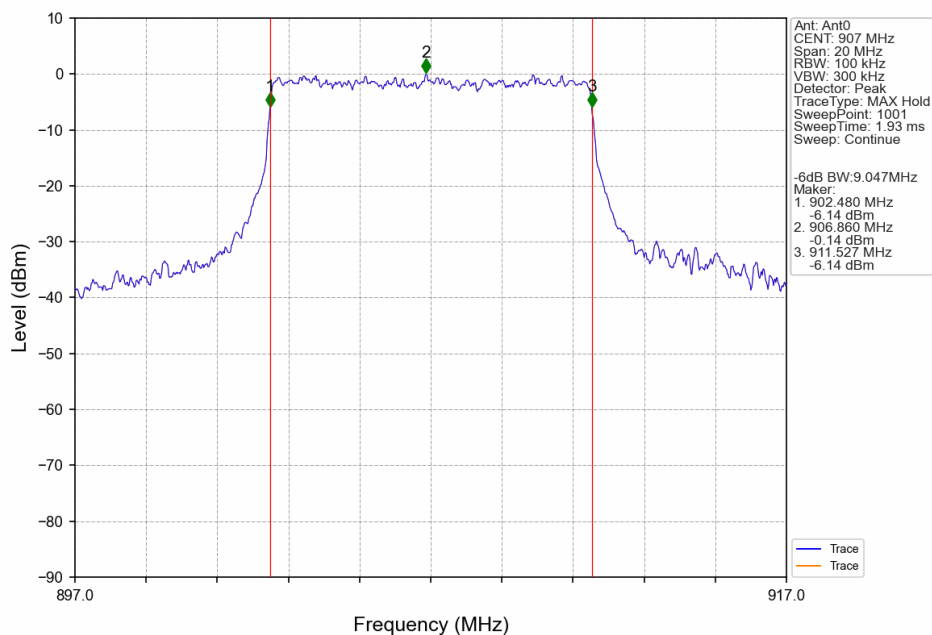
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5M_HCH_925.4MHz_Ant0_NTNV



10M_LCH_907MHz_Ant0_NTNV



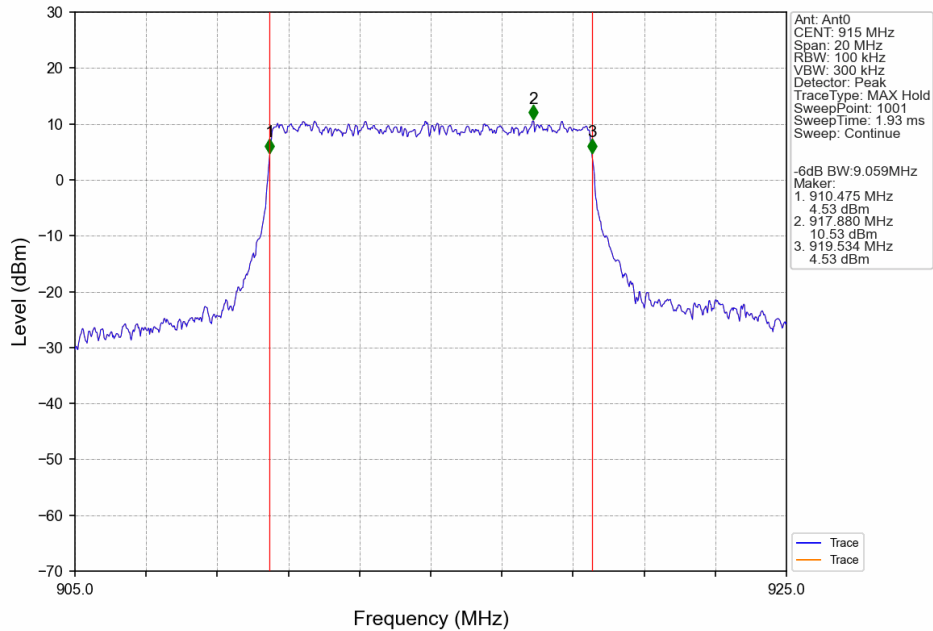
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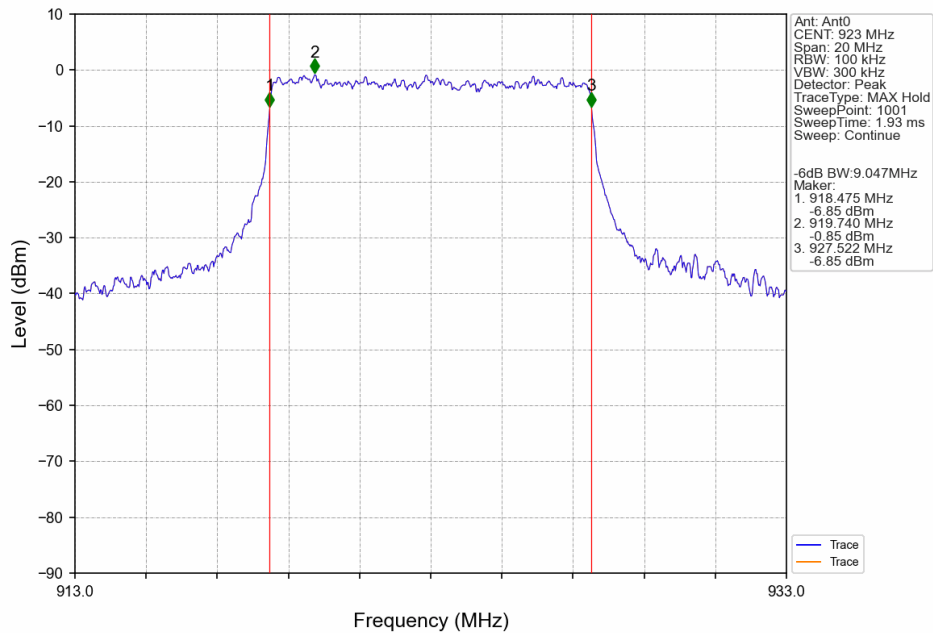
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10M_MCH_915MHz_Ant0_NTNV



10M_HCH_923MHz_Ant0_NTNV



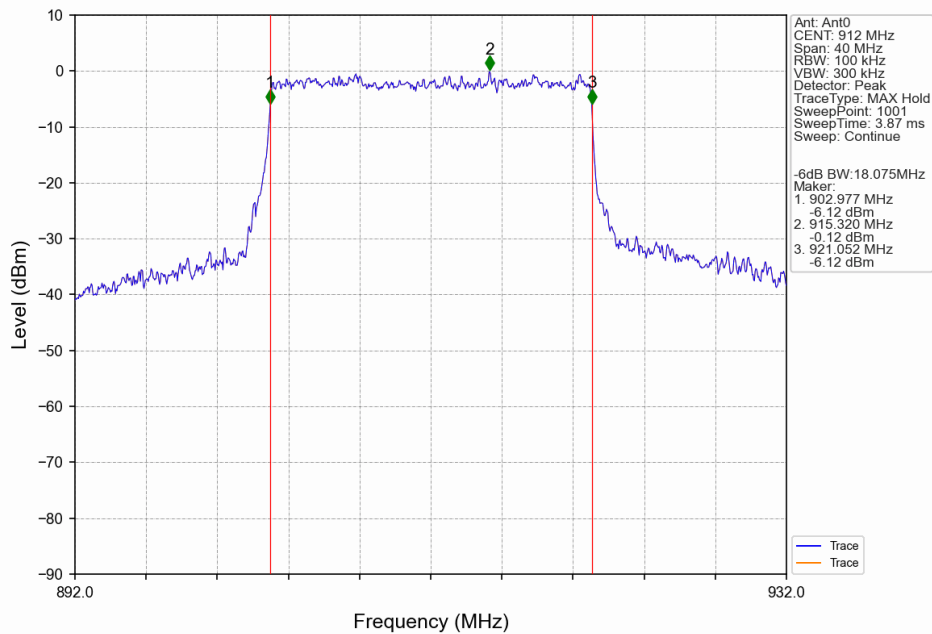
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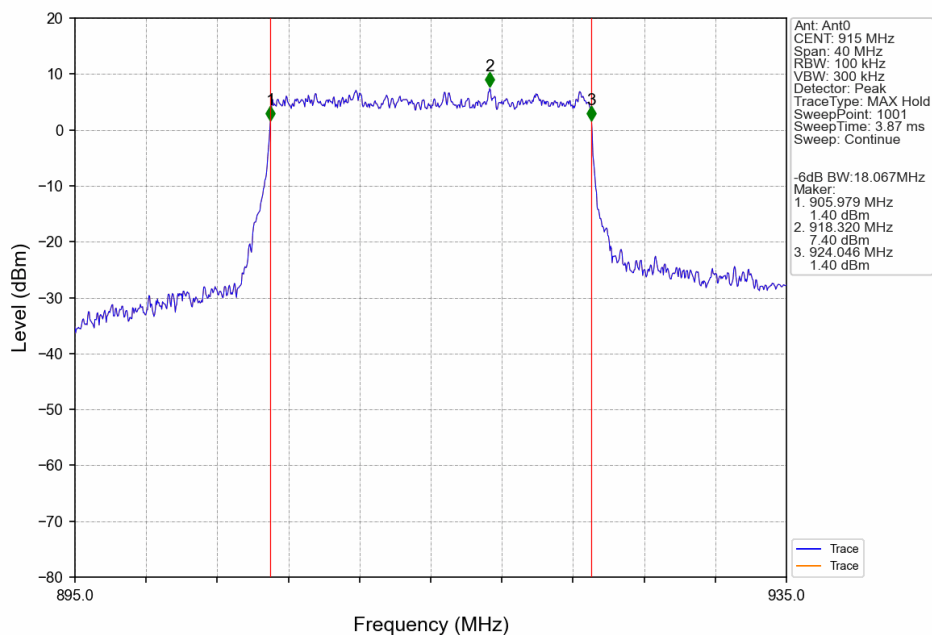
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20M_LCH_912MHz_Ant0_NTNV



20M_MCH_915MHz_Ant0_NTNV

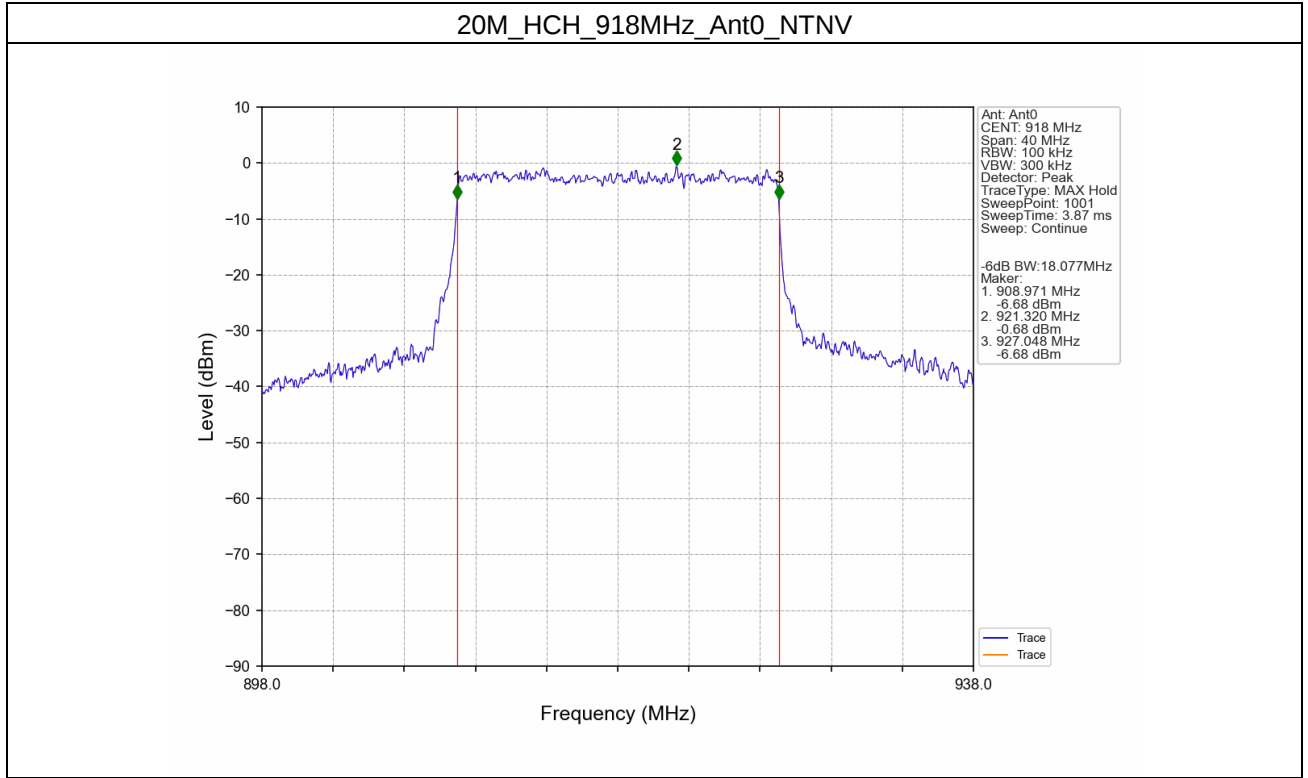


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3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum peak Conducted Output Power (dBm)				Verdict
			ANT0	ANT1	MIMO	Limit	
1.4M	MIMO	902.8	12.28	12.34	15.32	<=30	Pass
		915	26.42	25.12	28.83	<=30	Pass
		927.2	14.38	14.23	17.32	<=30	Pass
3M	MIMO	903.6	18.71	17.99	21.38	<=30	Pass
		915	24.37	23.49	26.96	<=30	Pass
		926.4	18.47	18.07	21.28	<=30	Pass
5M	MIMO	904.6	16.68	16.28	19.49	<=30	Pass
		915	26.15	25.43	28.82	<=30	Pass
		925.4	16.38	15.9	19.16	<=30	Pass
10M	MIMO	907	17.88	17.95	20.93	<=30	Pass
		915	26.58	25.47	29.07	<=30	Pass
		923	18.08	16.78	20.49	<=30	Pass
20M	MIMO	912	21.67	20.61	24.18	<=30	Pass
		915	25.93	25.18	28.58	<=30	Pass
		918	21.73	20.89	24.34	<=30	Pass

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			ANT0	ANT1	MIMO	Limit	
1.4M	MIMO	902.8	-9.62	-9.96	-7.72	<=8	Pass
		915	5.98	4.88	7.24	<=8	Pass
		927.2	-5.59	-6.36	-3.91	<=8	Pass
3M	MIMO	903.6	-2.00	-2.85	-0.81	<=8	Pass
		915	4.22	2.54	4.69	<=8	Pass
		926.4	-1.74	-2.35	-0.41	<=8	Pass
5M	MIMO	904.6	-10.43	-10.86	-8.78	<=8	Pass
		915	1.62	1.11	3.50	<=8	Pass
		925.4	-10.31	-10.52	-8.30	<=8	Pass
10M	MIMO	907	-11.74	-13.75	-9.62	<=8	Pass
		915	-3.62	-3.29	-1.42	<=8	Pass
		923	-13.19	-13.55	-10.36	<=8	Pass
20M	MIMO	912	-12.30	-12.86	-9.56	<=8	Pass
		915	-7.58	-8.31	-6.03	<=8	Pass
		918	-11.10	-12.83	-8.87	<=8	Pass

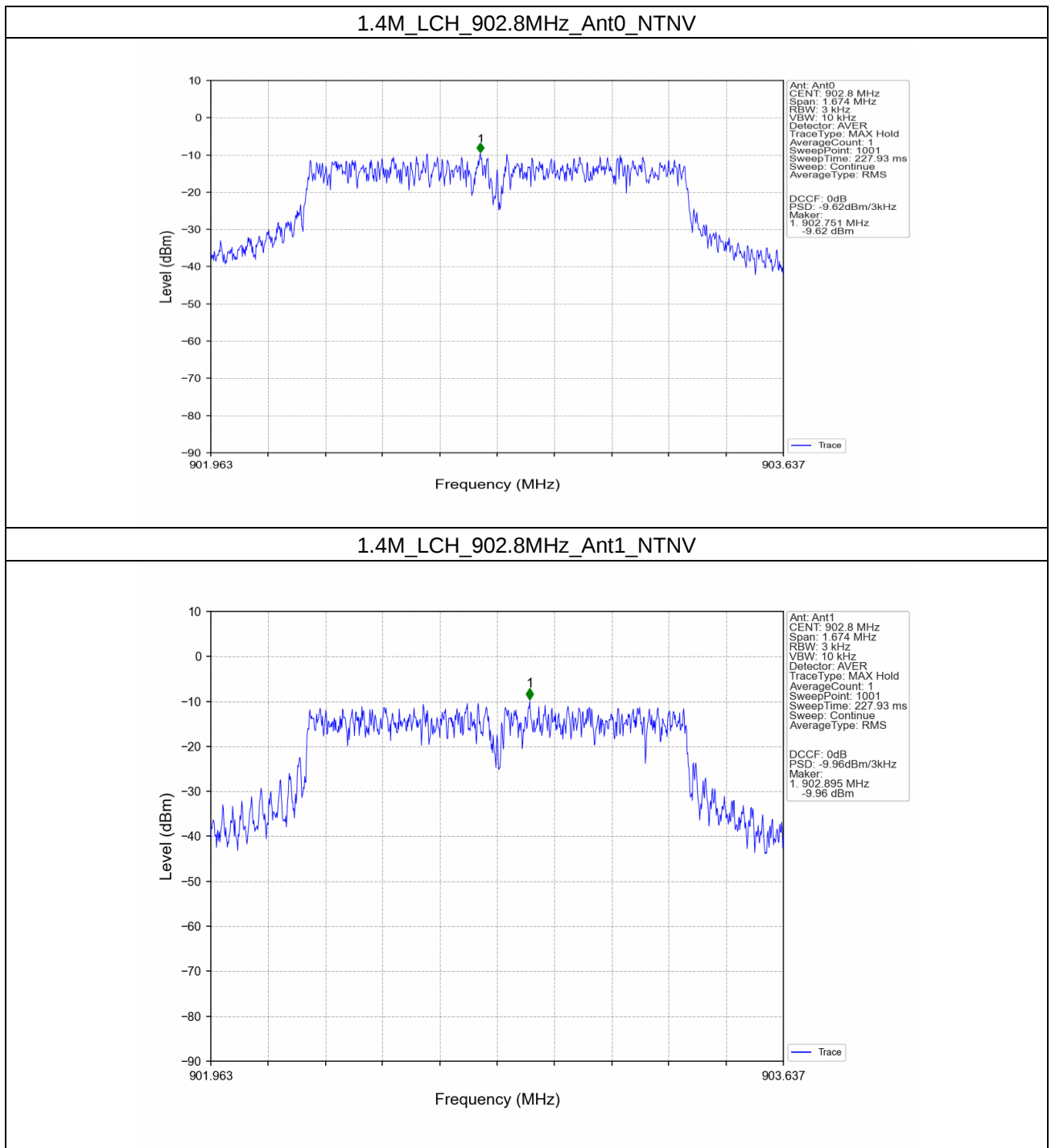


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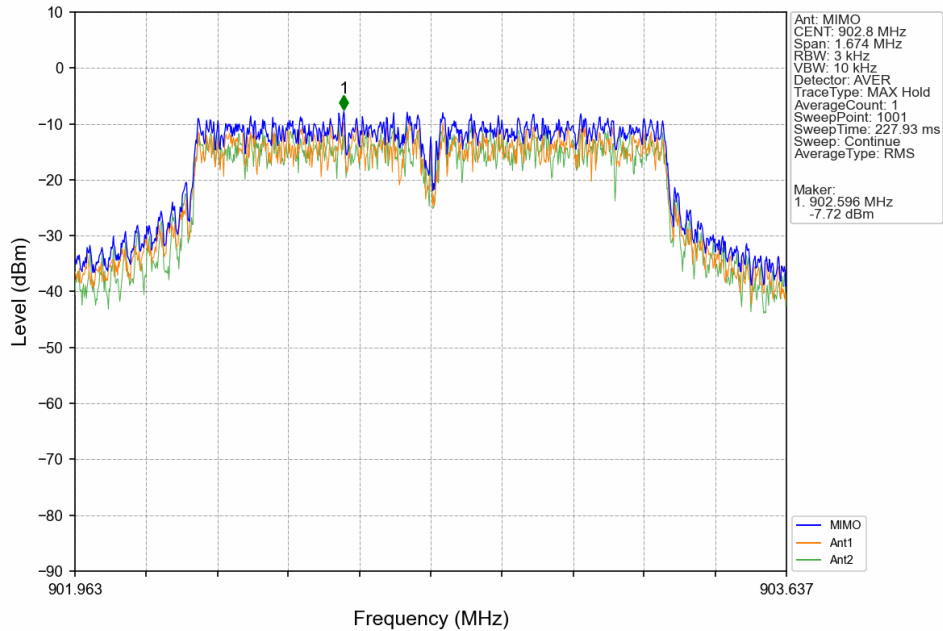
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4.2 Test Graph

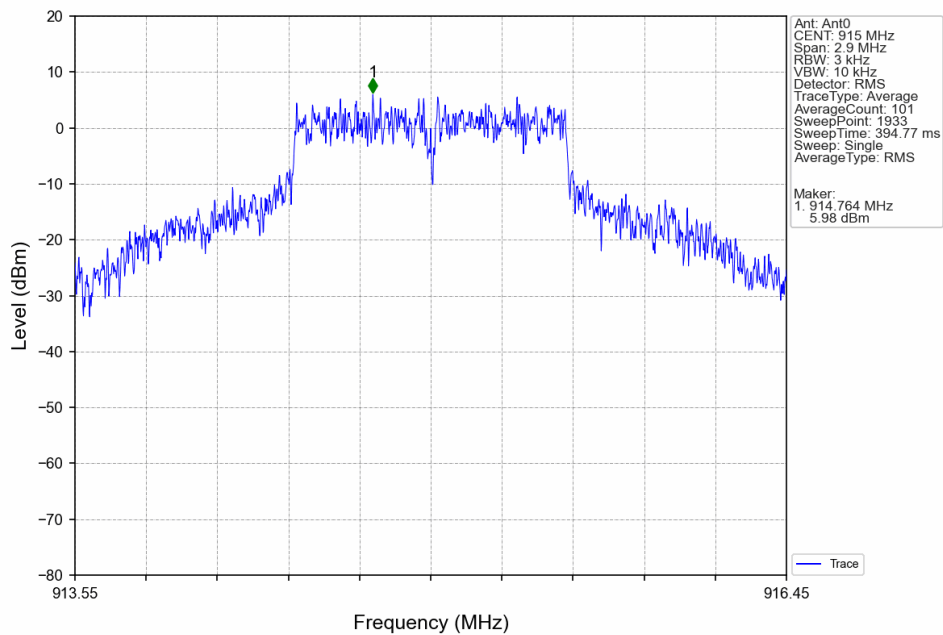
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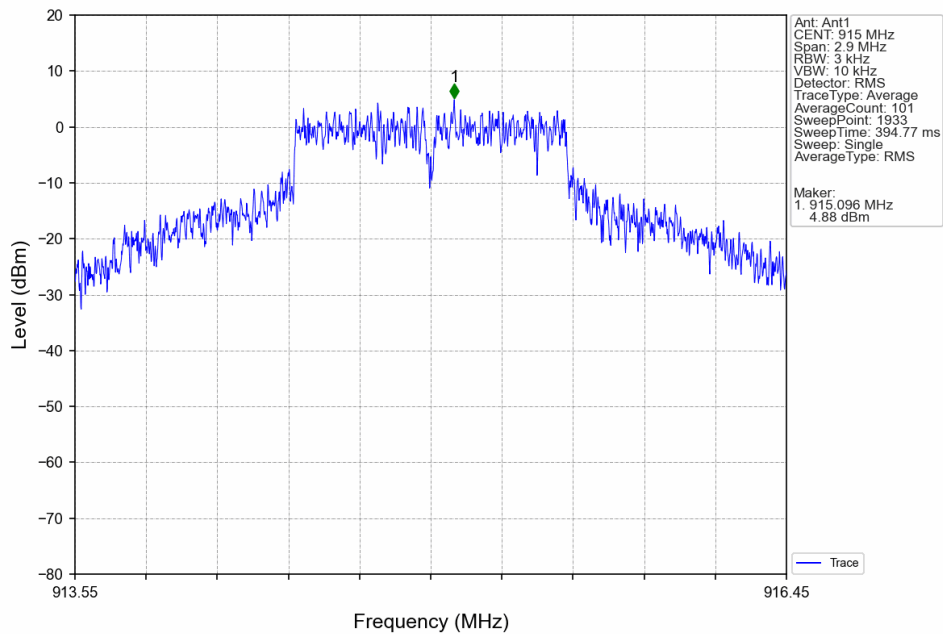
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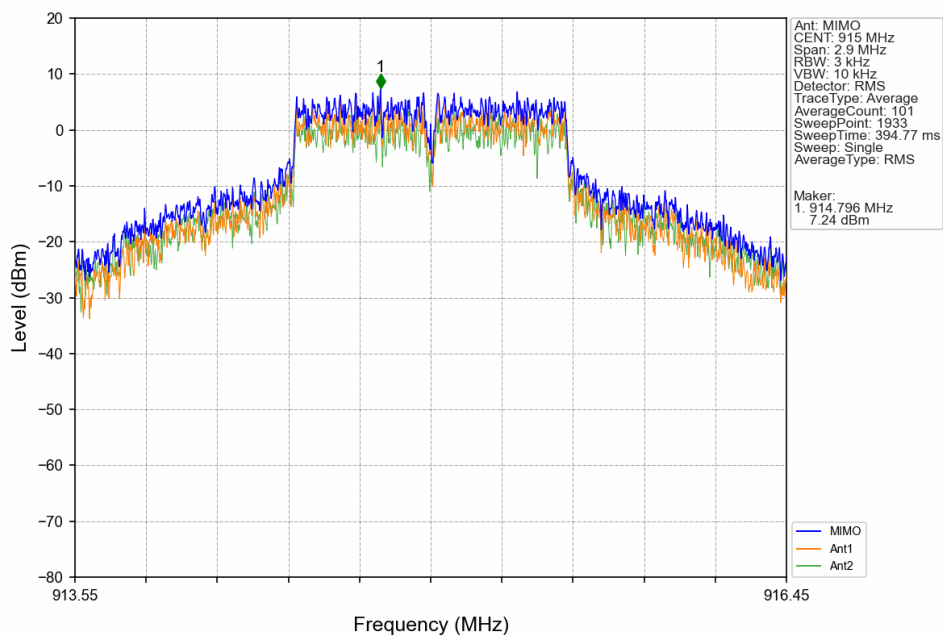
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1.4M_MCH_915MHz_Ant1_NTNV



1.4M_MCH_915MHz_MIMO_NTNV



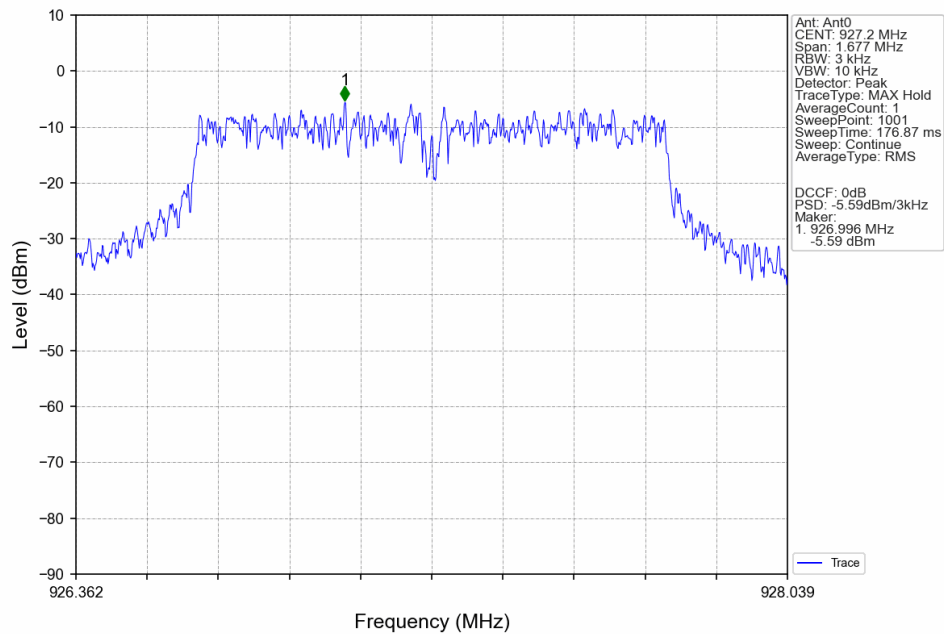
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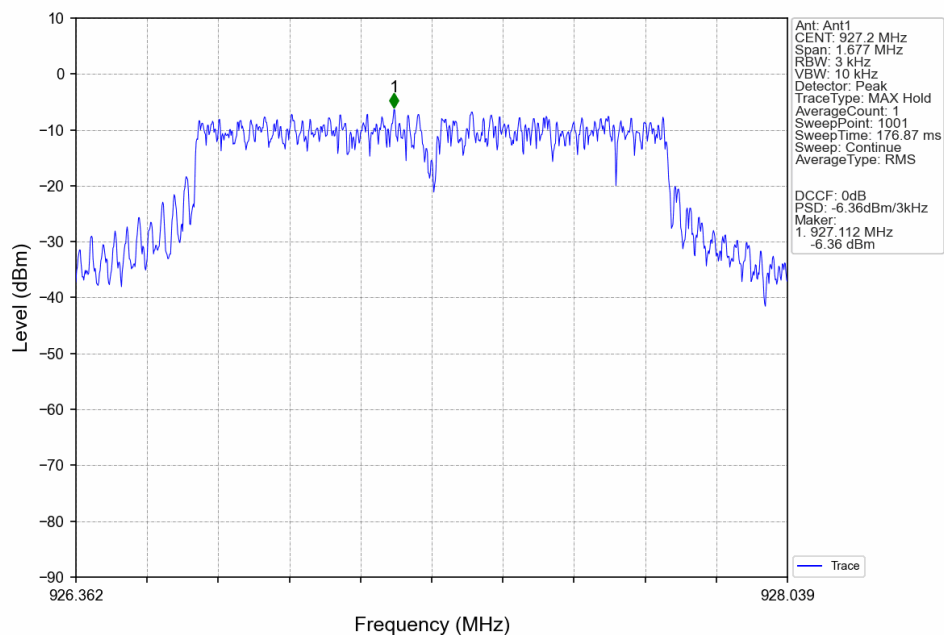
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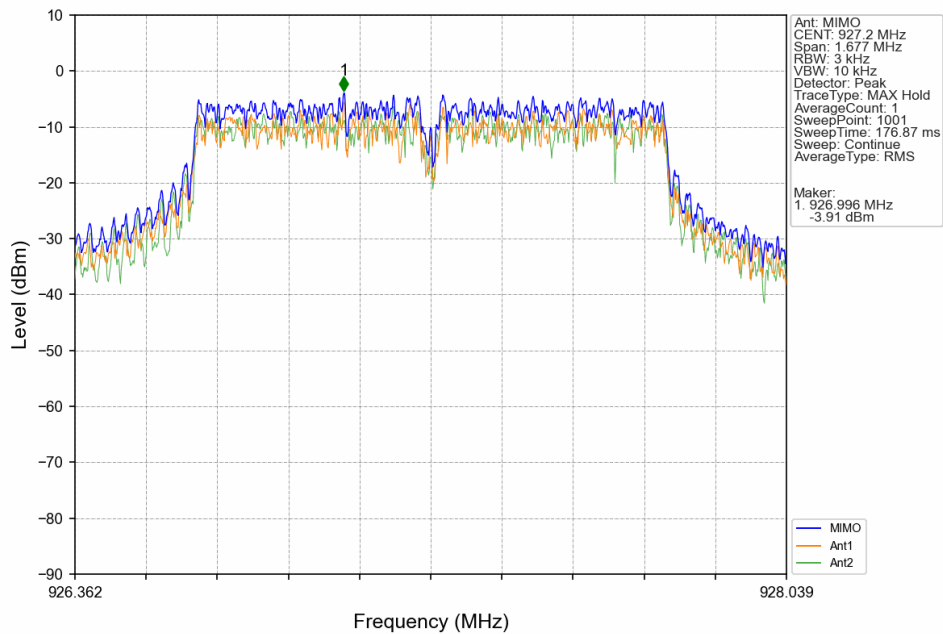
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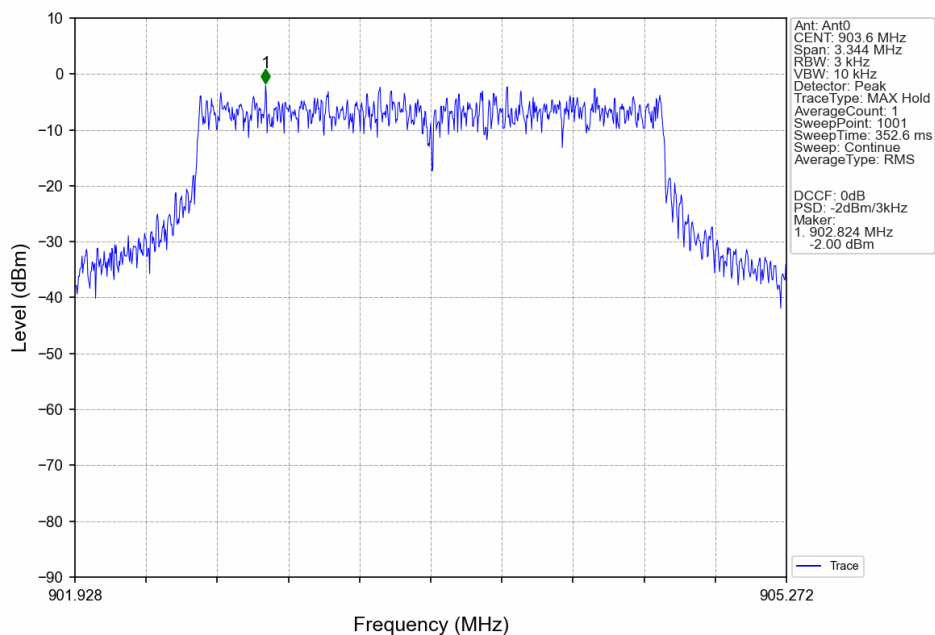
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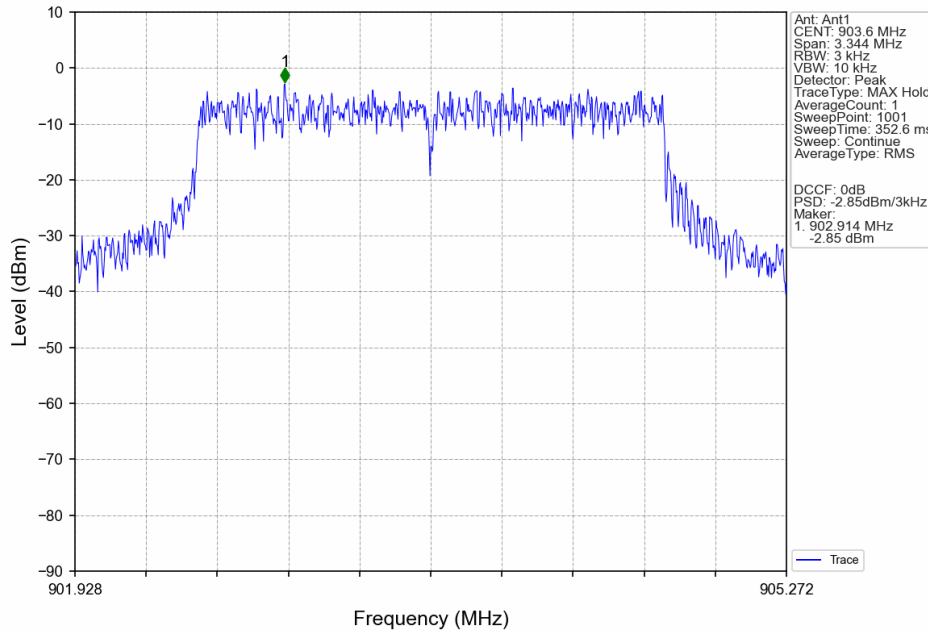
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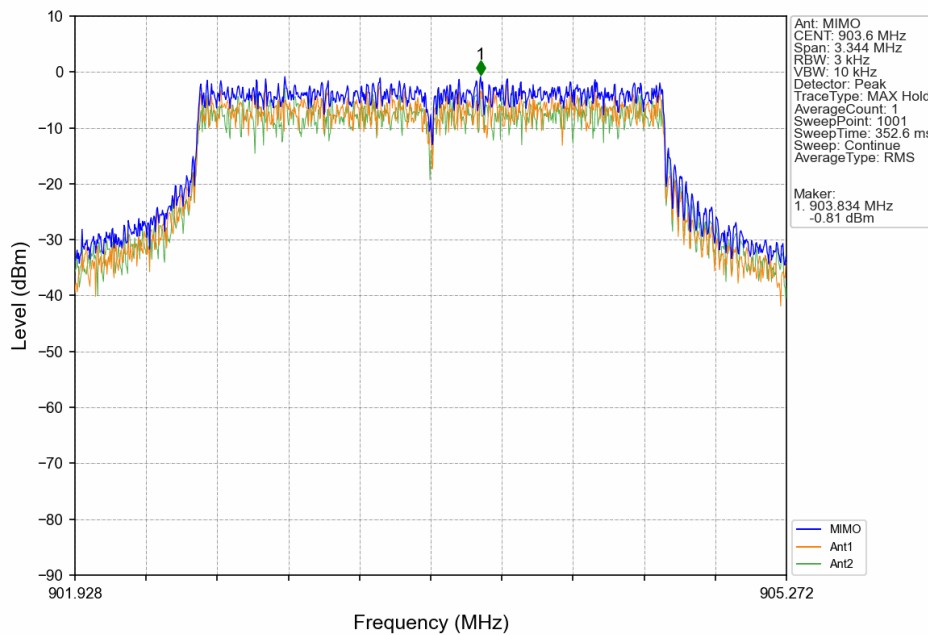
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3M_LCH_903.6MHz_Ant1_NTNV



3M_LCH_903.6MHz_MIMO_NTNV



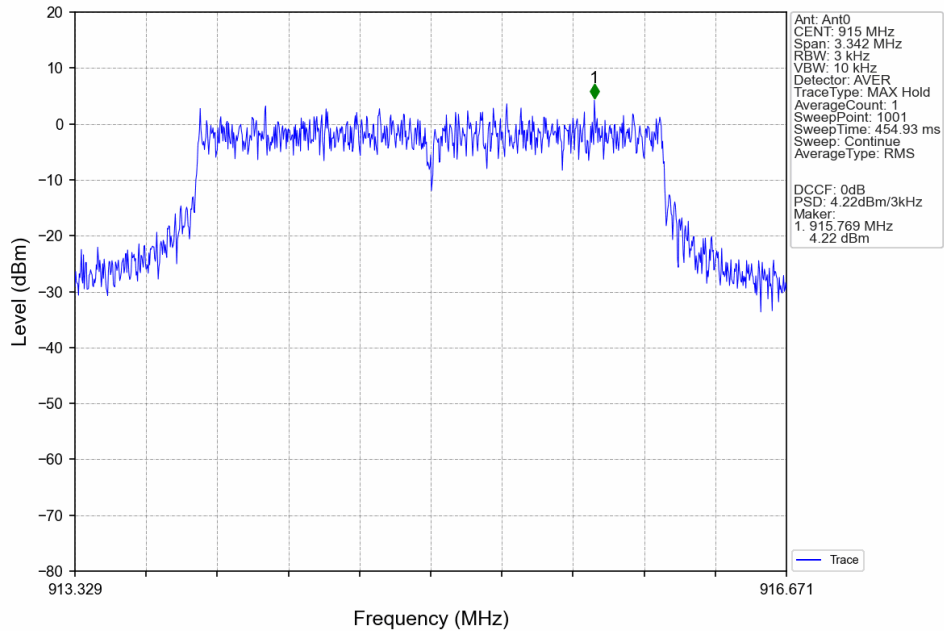
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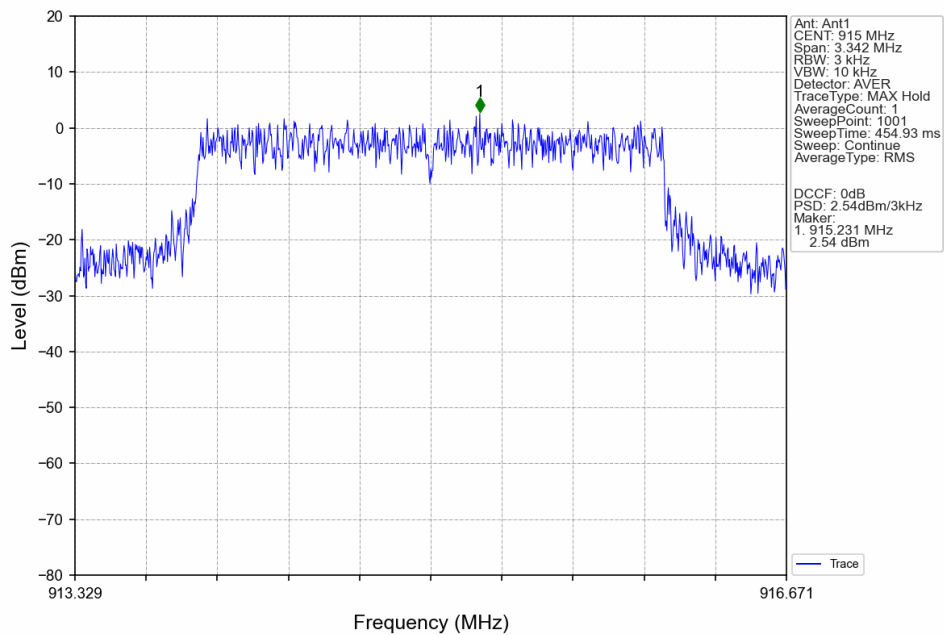
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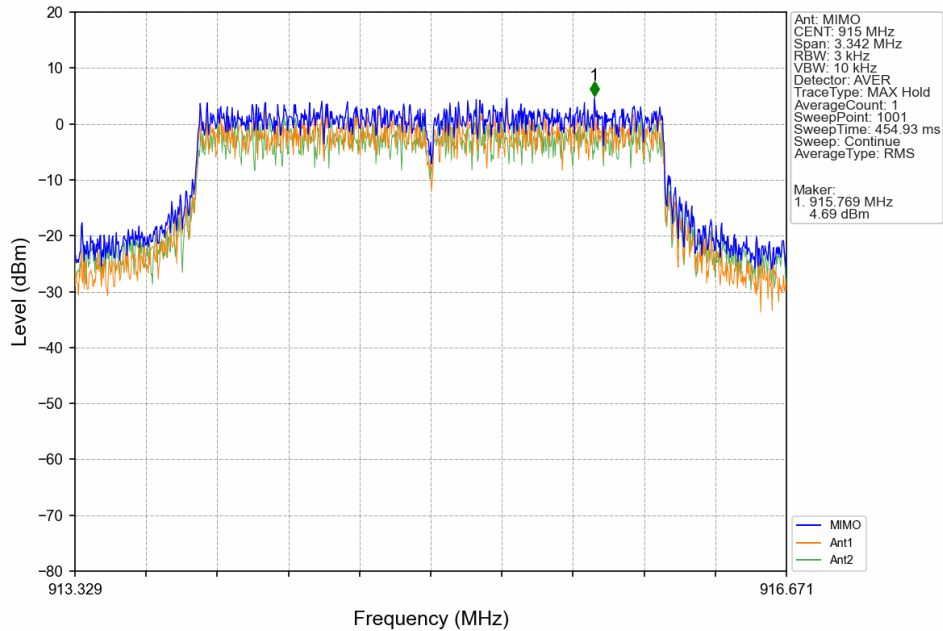
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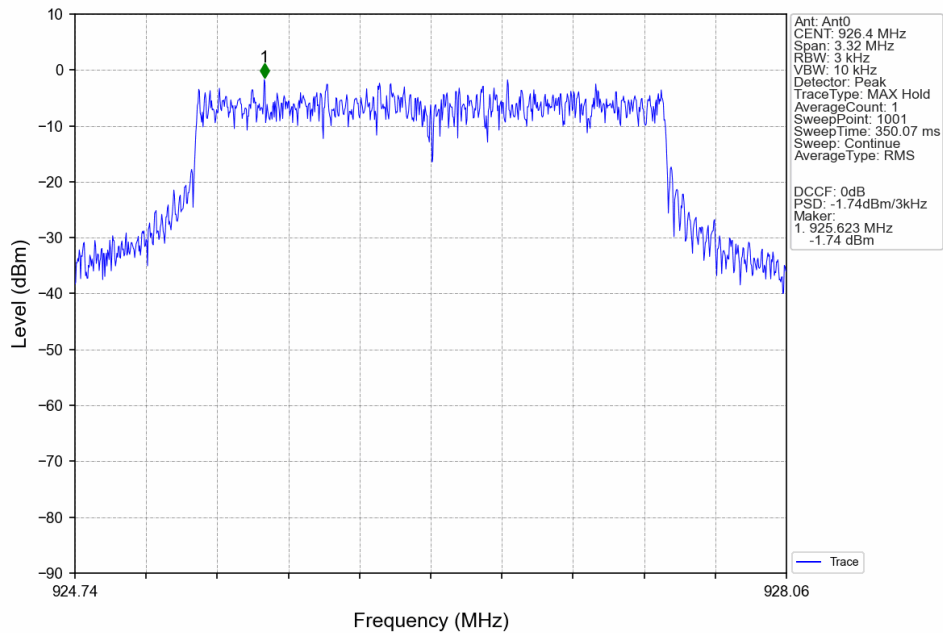
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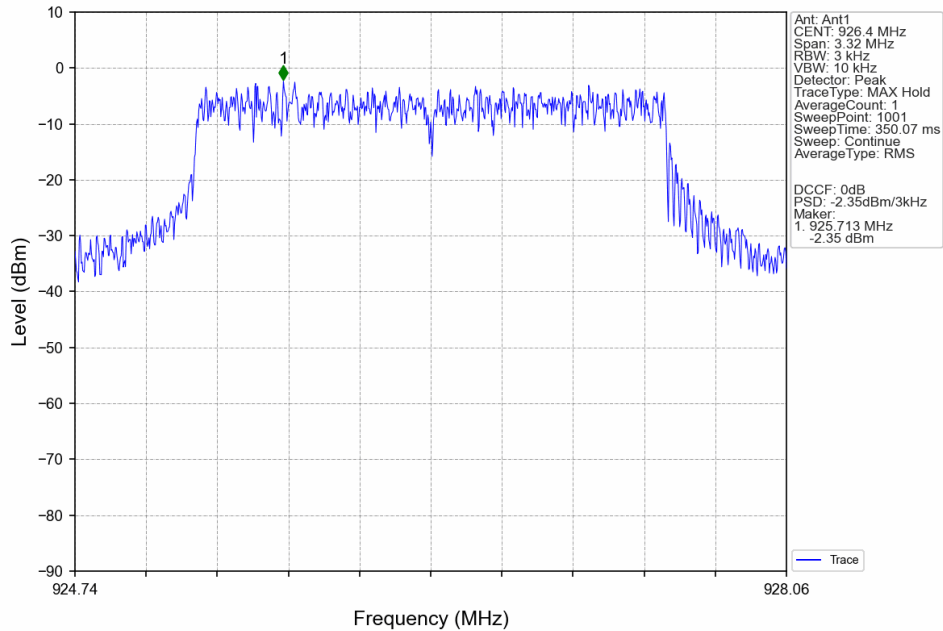
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3M_HCH_926.4MHz_Ant0_NTNV



3M_HCH_926.4MHz_Ant1_NTNV



3M_HCH_926.4MHz_MIMO_NTNV

