

TEST REPORT

Application No.: SUCR2603000220MO
FCC ID: XMR202603KCM0A5S
Applicant: Quectel Wireless Solutions Co., Ltd.
Address of Applicant: No. 8 Waipojing Road, Sijing Town, Songjiang District, Shanghai 201601, China
Manufacturer: Quectel Wireless Solutions Co., Ltd.
Address of Manufacturer: No. 8 Waipojing Road, Sijing Town, Songjiang District, Shanghai 201601, China
Applicant: Quectel Wireless Solutions Co., Ltd.
Equipment Under Test (EUT):
EUT Name: Wi-SUN Module
Model No.: KCM0A5S
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2026-03-13
Date of Test: 2026-03-19 to 2026-04-30
Date of Issue: 2026-05-09

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

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Revision Record			
Version	Description	Date	Remark
00	Original	2026-05-09	/

Authorized for issue by:			
Tested By		Nature Shen	
		Nature Shen/Project Engineer	
Approved By		Cedar cheng	
		Cedar Cheng /Reviewer	

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
Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence		N/A	47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Radiated Spurious Emissions Below 1GHz	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2020) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2020) Section 6.6 & 7.8.8	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Maximum Conducted Output Power		ANSI C63.10 (2020) Section 7.8.5	47 CFR Part 15, Subpart C 15.247(b)(2)	Pass
20dB Bandwidth		ANSI C63.10 (2020) Section 6.9.2	47 CFR Part 15, Subpart C 15.247(a)(1)	Pass
Carrier Frequencies Separation		ANSI C63.10 (2020) Section 7.8.2	47 CFR Part 15, Subpart C 15.247a(1)	Pass
Hopping Channel Number		ANSI C63.10 (2020) Section 7.8.3	47 CFR Part 15, Subpart C 15.247a(1)(i)	Pass
Dwell Time		ANSI C63.10 (2020) Section 7.8.4	47 CFR Part 15, Subpart C 15.247a(1)(i)	Pass
Conducted Band Edges Measurement		ANSI C63.10 (2020) Section 7.8.7.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		ANSI C63.10 (2020) Section 7.8.7	47 CFR Part 15, Subpart C 15.247(d)	Pass

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4 General Information

4.1 Details of E.U.T.

4.2 Details of E.U.T.

Power supply:	VBAT: 3.45-5.5V, typ. 5.0V
Operation Frequency:	902MHz to 928MHz
Modulation Type:	FSK, OFDM
Number of Channels:	FSK: 129, 64; OFDM: 129, 64
Channel Spacing:	FSK: 200kHz, 400kHz; OFDM: 200kHz, 400kHz
Antenna Type:	Dipole Antenna
Antenna Gain:	1.1dBi (Provided by the manufacturer)

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Computer	Lenovo	T14	2YK6GR

4.4 Power level setting using in test:

FSK	OFDM
Ant 1	Ant 1
Default	Default
Default	Default
Default	Default

4.5 Channel List

FSK & OFDM (Channel Space: 200kHz)

Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel
902.2	512	909.6	549	917	586	924.4	623
902.4	513	909.8	550	917.2	587	924.6	624
902.6	514	910	551	917.4	588	924.8	625
902.8	515	910.2	552	917.6	589	925	626
903	516	910.4	553	917.8	590	925.2	627
903.2	517	910.6	554	918	591	925.4	628
903.4	518	910.8	555	918.2	592	925.6	629
903.6	519	911	556	918.4	593	925.8	630
903.8	520	911.2	557	918.6	594	926	631
904	521	911.4	558	918.8	595	926.2	632
904.2	522	911.6	559	919	596	926.4	633
904.4	523	911.8	560	919.2	597	926.6	634
904.6	524	912	561	919.4	598	926.8	635
904.8	525	912.2	562	919.6	599	927	636
905	526	912.4	563	919.8	600	927.2	637
905.2	527	912.6	564	920	601	927.4	638
905.4	528	912.8	565	920.2	602	927.6	639
905.6	529	913	566	920.4	603	927.8	640
905.8	530	913.2	567	920.6	604		
906	531	913.4	568	920.8	605		
906.2	532	913.6	569	921	606		
906.4	533	913.8	570	921.2	607		
906.6	534	914	571	921.4	608		
906.8	535	914.2	572	921.6	609		
907	536	914.4	573	921.8	610		
907.2	537	914.6	574	922	611		
907.4	538	914.8	575	922.2	612		
907.6	539	915	576	922.4	613		
907.8	540	915.2	577	922.6	614		
908	541	915.4	578	922.8	615		
908.2	542	915.6	579	923	616		
908.4	543	915.8	580	923.2	617		
908.6	544	916	581	923.4	618		
908.8	545	916.2	582	923.6	619		
909	546	916.4	583	923.8	620		
909.2	547	916.6	584	924	621		
909.4	548	916.8	585	924.2	622		

FSK & OFDM (Channel Space: 400kHz)

Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel
902.4	1280	909.6	1298	916.8	1316	924	1334
902.8	1281	910	1299	917.2	1317	924.4	1335
903.2	1282	910.4	1300	917.6	1318	924.8	1336
903.6	1283	910.8	1301	918	1319	925.2	1337
904	1284	911.2	1302	918.4	1320	925.6	1338
904.4	1285	911.6	1303	918.8	1321	926	1339
904.8	1286	912	1304	919.2	1322	926.4	1340
905.2	1287	912.4	1305	919.6	1323	926.8	1341
905.6	1288	912.8	1306	920	1324	927.2	1342
906	1289	913.2	1307	920.4	1325	927.6	1343
906.4	1290	913.6	1308	920.8	1326		
906.8	1291	914	1309	921.2	1327		
907.2	1292	914.4	1310	921.6	1328		
907.6	1293	914.8	1311	922	1329		
908	1294	915.2	1312	922.4	1330		
908.4	1295	915.6	1313	922.8	1331		
908.8	1296	916	1314	923.2	1332		
909.2	1297	916.4	1315	923.6	1333		

4.6 Measurement Uncertainty & Decision Rule

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 7.25 \times 10^{-8}$
2	Duty cycle	$\pm 0.37\%$
3	Occupied Bandwidth	$\pm 3\%$
4	Conduction emission	$\pm 3.0\text{dB}$ (150kHz to 30MHz)
5	RF conducted power	$\pm 0.75\text{dB}$
6	RF power density	$\pm 2.84\text{dB}$
7	Conducted Spurious emissions	$\pm 0.75\text{dB}$
8	RF Radiated power	$\pm 1.56\text{dB}$ (9KHz-30MHz)
		$\pm 4.80\text{dB}$ (30MHz-1GHz)
		$\pm 4.80\text{dB}$ (1GHz-18GHz)
		$\pm 4.80\text{dB}$ (18GHz-40GHz)
9	Temperature test	$\pm 1^\circ\text{C}$
10	Humidity test	$\pm 3\%$
11	Supply voltages	$\pm 1\%$
12	Time	$\pm 3\%$
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.		

4.7 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu)
Pilot Free Trade Zone

No tests were sub-contracted.

Note:

- 1.SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
- 2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).
3. Sample source: sent by customer.

4.8 Test Facility

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

- **A2LA (Certificate No. 6336.01)**

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.is accredited by the American Association for Laboratory Accreditation (A2LA).

- **FCC (Designation Number: CN1312)**

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd. has been recognized as an accredited testing laboratory. Test Firm Registration Number:717327

- **ISED (CAB Identifier: CN0120)**

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 27594

4.9 Deviation from Standards

None

4.10 Abnormalities from Standard Conditions

None

5 Equipment List

Item	Equipment	Manufacturer	Model	Inventory No	Cal Date	Cal. Due Date
Conducted Emission at Mains Terminals						
1	EMI Test Receive	R&S	ESR7	SUWI-01-10-01	1/14/2026	1/13/2027
2	LISN	R&S	ENV216	SUWI-01-19-03	5/8/2025	5/7/2026
3	LISN	Schwarzbeck	ENV216	SUWI-01-19-04	5/8/2025	5/7/2026
4	Test Software	Tonscend	JS32-CE 4.0.0.2	SUWI-02-09-05	N.C.R	N.C.R
17	RFCables	Tonscend	NA	SUWI-01-03-03	1/15/2026	1/14/2027
RF Conducted Test						
1	Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	1/14/2026	1/13/2027
2	Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-15	11/21/2025	11/20/2026
3	MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	1/14/2026	1/13/2027
4	Signal Generator	ROHDE&SCHWARZ	SMW200A	SUWI-01-07-08	1/14/2026	1/13/2027
5	Signal Generator	ROHDE&SCHWARZ	SMW100A	SUWI-01-08-01	1/14/2026	1/13/2027
6	MXG Vector Signal Generator	ROHDE&SCHWARZ	SMR20	SUWI-01-33-01	11/21/2025	11/20/2026
7	Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-13	5/8/2025	5/7/2026
8	Wideband Radio Communication Test Station	Anritsu	MT8000A	SUWI-01-34-02	11/21/2025	11/20/2026
9	Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	11/21/2025	11/20/2026
10	Power meter	Anritsu	ML2495A	SUWI-01-31-01	11/21/2025	11/20/2026
11	Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	11/21/2025	11/20/2026
12	DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	1/14/2026	1/13/2027
13	Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2/11/2026	2/10/2027
14	Temperature Chamber	GIANT FORCE	ICT-017-40-SP-SD	SUWI-01-13-02	5/7/2025	5/6/2026
15	Measurement Software	TST	TST 272 V2.02	SUWI-03-55-03	NCR	NCR
16	RF Control unit	TST	TSCB3023R2	SUWI-02-20-01	NCR	NCR
17	RFCables	Tonscend	NA	SUWI-01-03-01	1/15/2026	1/14/2027
RF Radiated Test						
1	Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	6/3/2023	6/2/2026
2	Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	1/14/2026	1/13/2027
3	Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-09	11/21/2025	11/20/2026
4	Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	1/14/2026	1/13/2027
5	Signal Generator	ROHDE&SCHWARZ	SMW100A	SUWI-01-18-01	1/14/2026	1/13/2027
6	Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9168	SUWI-01-11-04	9/10/2025	9/9/2027

7	Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	5/7/2025	5/6/2027
8	Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	5/7/2025	5/6/2027
9	Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	5/7/2025	5/6/2027
10	Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	1/14/2026	1/13/2027
11	Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	1/14/2026	1/13/2027
12	Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	1/14/2026	1/13/2027
13	Wideband Radio Communication Tester	Anritsu	MT8820C	SUWI-01-26-01	11/21/2025	11/20/2026
14	Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	8/25/2025	8/24/2026
15	Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-09	8/26/2025	8/25/2026
16	Radio Communication Analyzer	StarPoint	SP9500E	SUWI-01-28-02	11/21/2025	11/20/2026
17	Signal Generator	ROHDE&SCHWARZ	SMB100A	SUWI-01-08-01	1/14/2026	1/13/2027
18	DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	1/14/2026	1/13/2027
19	Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2/11/2026	2/10/2027
20	Measurement Software	Tonscend	JS32-RE 4.0.0.0	SUWI-02-09-06	NCR	NCR
21	RF Control unit	Tonscend	JS0806-1	SUWI-02-20-01	NCR	NCR
22	RFCables	Tonscend	NA	SUWI-01-03-02	1/15/2026	1/14/2027

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 Dipole antenna and no consideration of replacement. The best case gain of the antenna is 1.1dBi.

Antenna location: Refer to External photo.

6.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence

6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)

6.2.2 Conclusion

Standard Requirement:

The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

Compliance for section 15.247(a)(1):

According to Technical Specification, the pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONES; i.e. the shift register is initialized with nine ones.

> Number of shift register stages: 9

> Length of pseudo-random sequence: $2^9 - 1 = 511$ bits

> Longest sequence of zeros: 8 (non-inverted signal)

Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:

Each frequency used equally on the average by each transmitter.

According to Technical Specification, the receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any transmitters and shift frequencies in synchronization with the transmitted signals.

Compliance for section 15.247(g):

According to Technical Specification, the system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the Bluetooth system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.

Compliance for section 15.247(h):

According to Technical specification, the system incorporates with an adaptive system to detect other

user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.

The system is designed not have the ability to coordinated with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.

7 Radio Spectrum Matter Test Results

7.1 Radiated Spurious Emissions Below 1GHz

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

Test Method: ANSI C63.10 (2020) Section 6.4,6.5

Limit:

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)	Field strength (dBμV/m@3m)
0.009-0.490	2400/F(kHz)	300	128.5 to 93.8
0.490-1.705	24000/F(kHz)	30	73.8 to 62.9
1.705-30.0	30	30	69.60
30-88	100	3	40.0
88-216	150	3	43.5
216-960	200	3	46.0
960-1000	500	3	54.0

Note : The above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

7.1.1 E.U.T. Operation

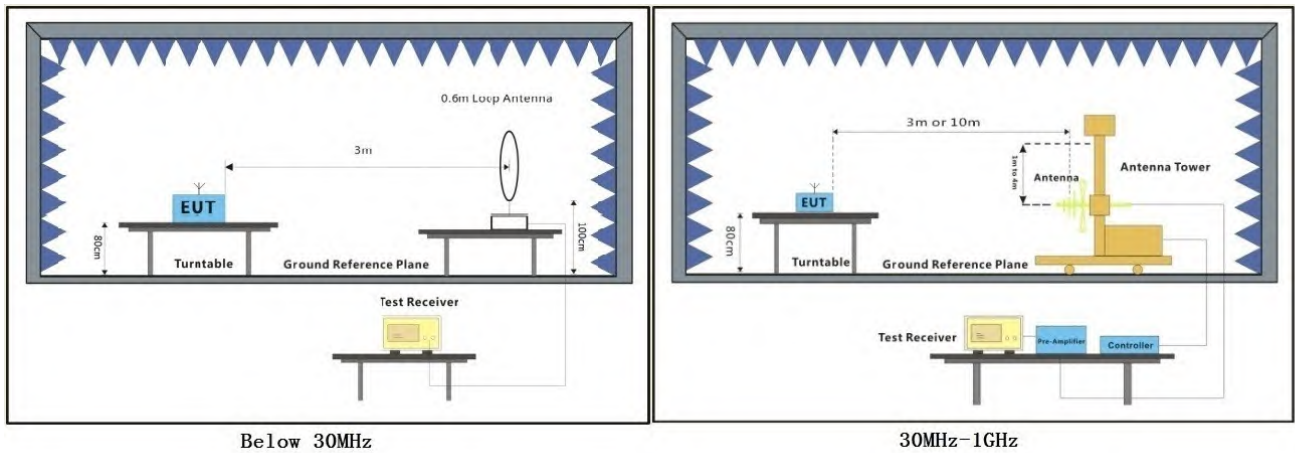
Operating Environment:

Temperature: 24 °C Humidity: 43 % RH Atmospheric Pressure: 1001 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with FSK modulation.
Final test	03	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with OFDM modulation.

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 0.8m above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3m or 10m away from the interference-receiving antenna, which was mounted on the variable-height antenna tower.
- c. The antenna height is varied from 1m to 4m 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 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1m) 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 quasi-peak 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. At frequencies below 1GHz, measurements may be performed at a distance different to specified in the regulations.

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

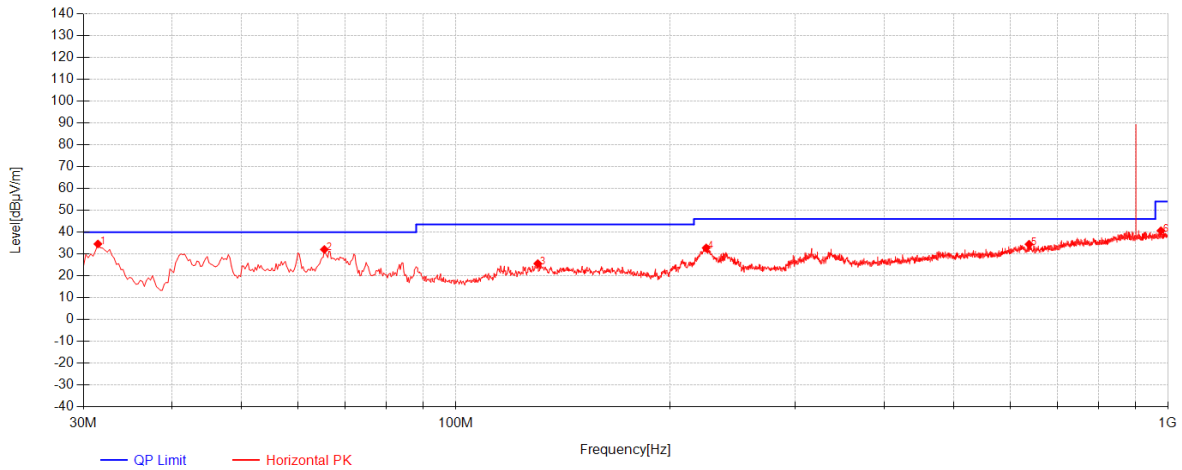
EX. Below 30MHz, Aux Factor = 40 dB/decade of distance, the aux factor is $40\log(3/300) = -80\text{dB}$ (for 3m test distance).

EX. Above 30MHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(10/3) = 10.46\text{dB}$ (for 10m test distance).

2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the worst-case test curve is displayed.

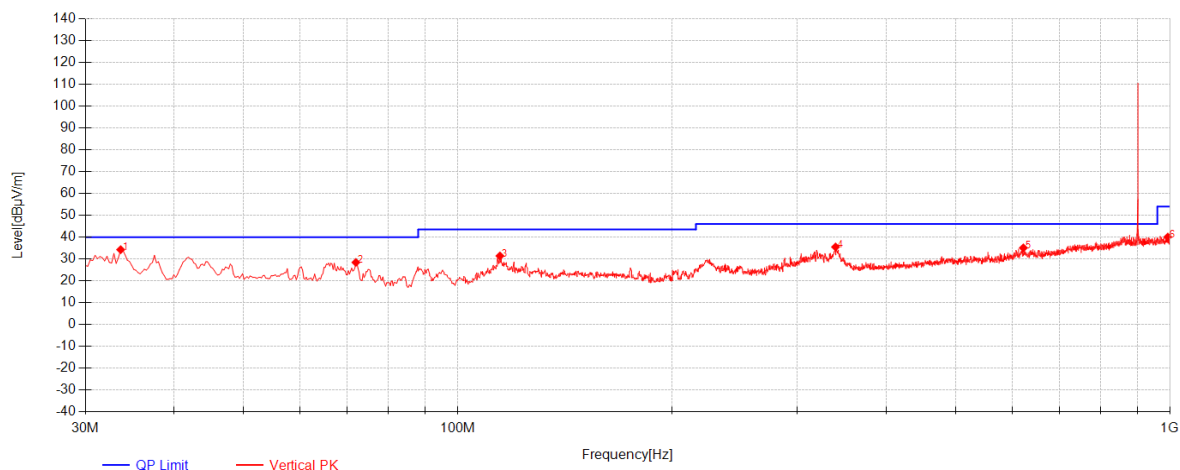
FSK_400kHz_TX_CH_1280_Horizontal



Data List

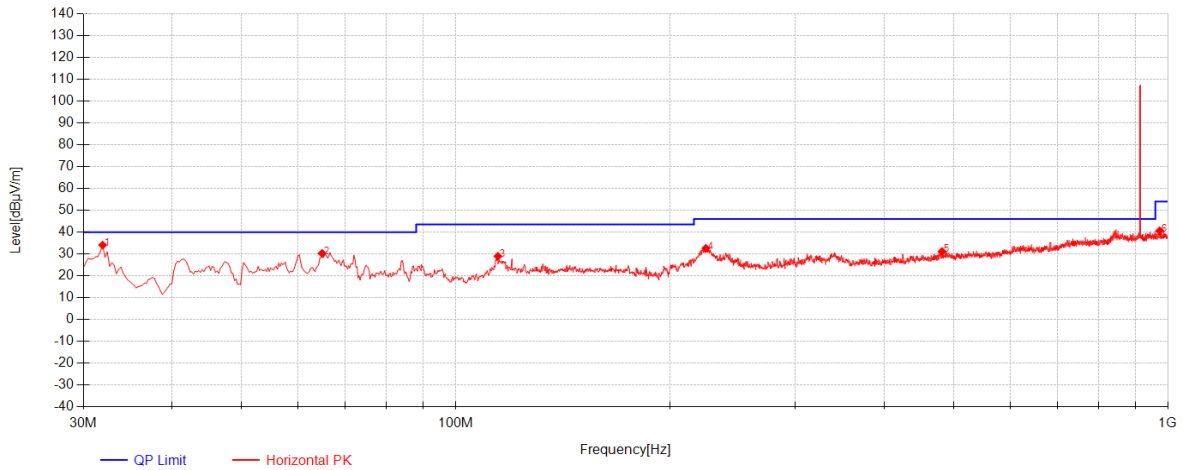
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	31.455	58.49	18.39	-42.30	34.58	40.00	5.42	Horizontal
2	65.405	55.69	18.28	-41.90	32.06	40.00	7.94	Horizontal
3	130.395	48.92	17.96	-41.29	25.59	43.50	17.91	Horizontal
4	224.7275	57.26	16.05	-40.53	32.79	46.00	13.21	Horizontal
5	638.19	45.29	26.81	-37.64	34.46	46.00	11.54	Horizontal
6	977.4475	46.41	29.88	-35.63	40.65	54.00	13.35	Horizontal

FSK_400kHz_TX_CH_1280_Vertical



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	33.6375	58.19	18.36	-42.28	34.27	40.00	5.73	Vertical
2	71.9525	52.55	17.66	-41.79	28.42	40.00	11.58	Vertical
3	114.6325	55.87	16.95	-41.41	31.41	43.50	12.09	Vertical
4	339.1875	54.81	20.46	-39.77	35.50	46.00	10.50	Vertical
5	622.4275	46.03	26.71	-37.67	35.08	46.00	10.92	Vertical
6	992.9675	45.50	30.26	-35.69	40.07	54.00	13.93	Vertical

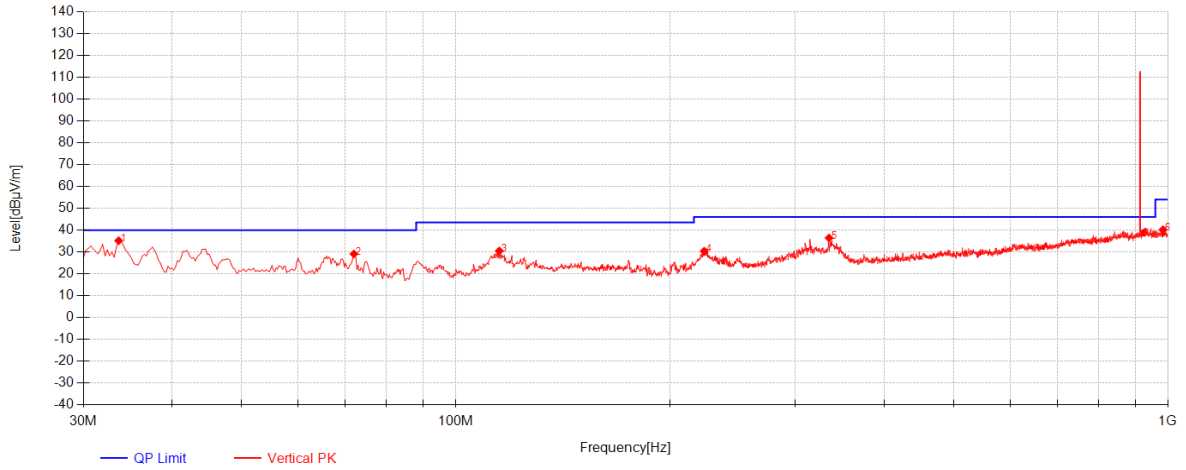
FSK_400kHz_TX_CH_1311_Horizontal



Data List

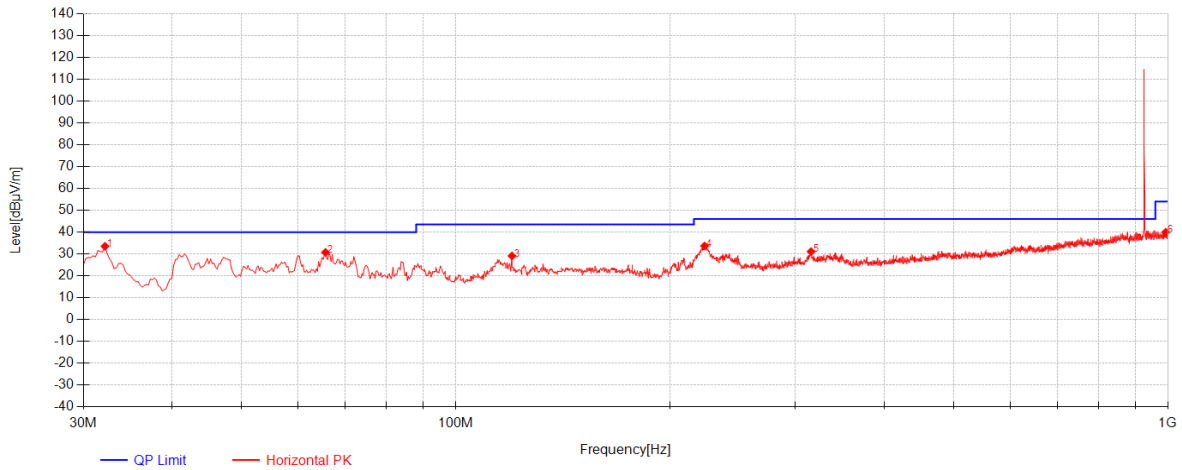
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	31.94	57.89	18.49	-42.29	34.08	40.00	5.92	Horizontal
2	64.92	53.84	18.35	-41.91	30.28	40.00	9.72	Horizontal
3	114.6325	53.42	16.95	-41.41	28.96	43.50	14.54	Horizontal
4	224.485	56.99	16.10	-40.53	32.56	46.00	13.44	Horizontal
5	481.7775	45.78	23.86	-38.50	31.14	46.00	14.86	Horizontal
6	973.5675	46.51	29.74	-35.61	40.63	54.00	13.37	Horizontal

FSK_400kHz_TX_CH_1311_Vertical



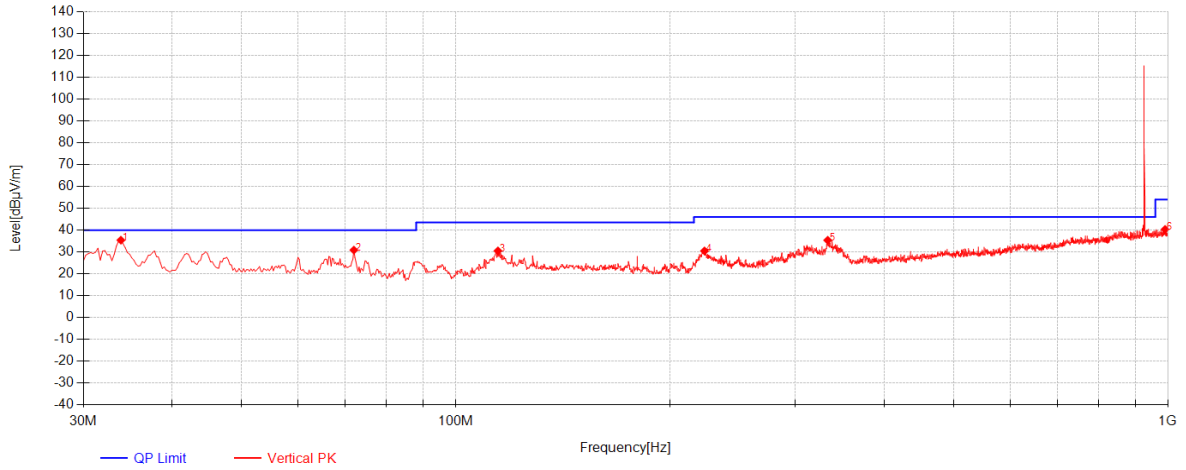
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	33.6375	59.10	18.36	-42.28	35.18	40.00	4.82	Vertical
2	71.9525	53.22	17.66	-41.79	29.09	40.00	10.91	Vertical
3	115.1175	55.16	16.72	-41.40	30.47	43.50	13.03	Vertical
4	223.2725	54.65	16.27	-40.54	30.38	46.00	15.62	Vertical
5	334.3375	55.56	20.63	-39.77	36.42	46.00	9.58	Vertical
6	983.995	46.36	29.50	-35.67	40.19	54.00	13.81	Vertical

FSK_400kHz_TX_CH_1343_Horizontal



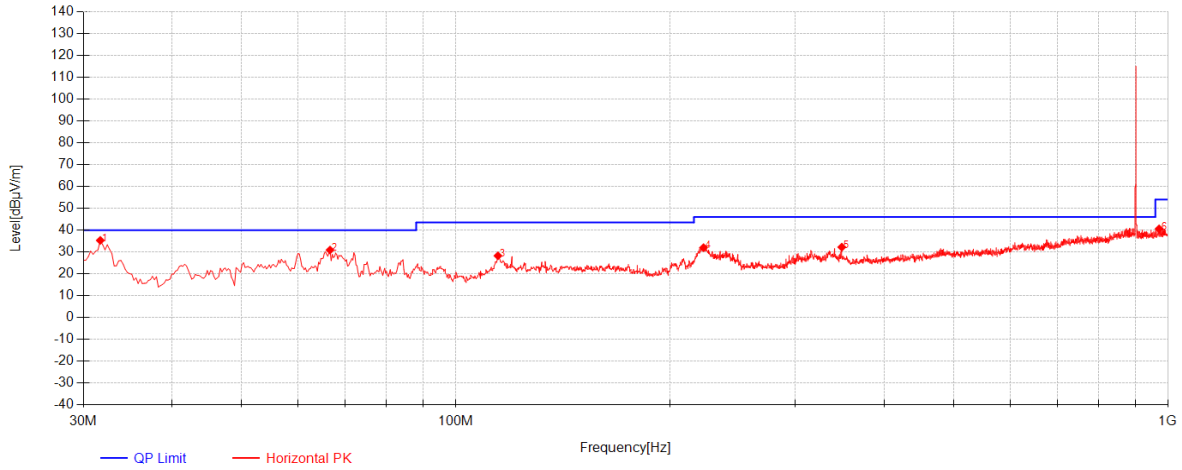
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	32.1825	57.35	18.46	-42.29	33.52	40.00	6.48	Horizontal
2	65.6475	54.41	18.21	-41.90	30.72	40.00	9.28	Horizontal
3	119.9675	53.18	17.29	-41.37	29.10	43.50	14.40	Horizontal
4	223.515	57.95	16.25	-40.54	33.66	46.00	12.34	Horizontal
5	315.4225	50.45	20.47	-39.83	31.09	46.00	14.91	Horizontal
6	992.725	45.35	30.32	-35.69	39.98	54.00	14.02	Horizontal

FSK_400kHz_TX_CH_1343_Vertical



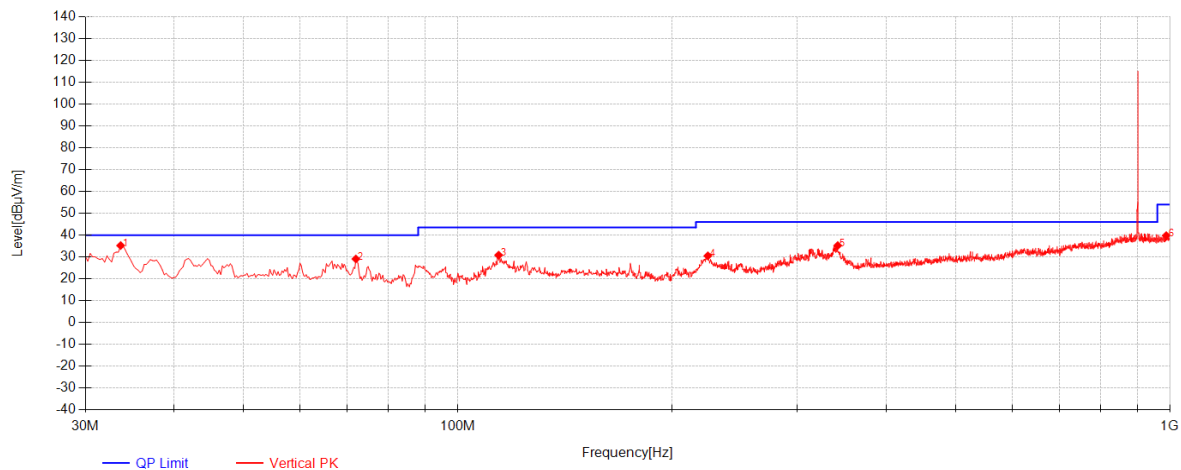
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	33.88	59.30	18.39	-42.28	35.41	40.00	4.59	Vertical
2	71.9525	54.99	17.66	-41.79	30.86	40.00	9.14	Vertical
3	114.6325	54.94	16.95	-41.41	30.48	43.50	13.02	Vertical
4	223.515	54.76	16.25	-40.54	30.47	46.00	15.53	Vertical
5	332.8825	54.89	20.25	-39.77	35.37	46.00	10.63	Vertical
6	990.5425	45.99	30.06	-35.71	40.35	54.00	13.65	Vertical

FSK_200kHz_TX_CH_512_Horizontal



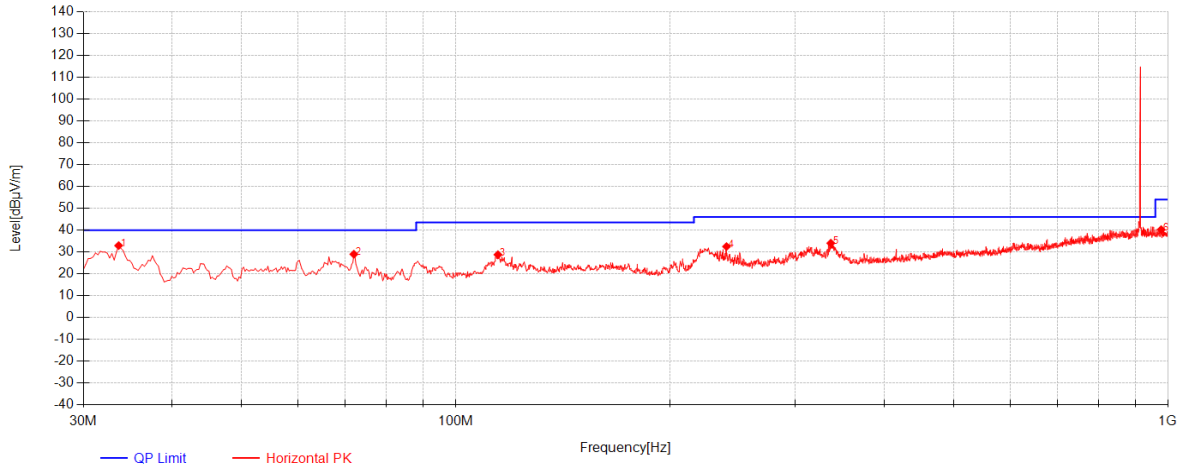
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	31.6975	59.16	18.44	-42.30	35.30	40.00	6.70	Horizontal
2	66.6175	54.61	18.16	-41.88	30.89	40.00	9.11	Horizontal
3	114.6325	52.70	16.95	-41.41	28.24	43.50	15.26	Horizontal
4	222.7875	56.18	16.32	-40.54	31.96	46.00	14.04	Horizontal
5	348.4025	51.31	20.66	-39.76	32.21	46.00	13.79	Horizontal
6	971.6275	46.66	29.54	-35.60	40.60	54.00	13.40	Horizontal

FSK_200kHz_TX_CH_512_Vertical



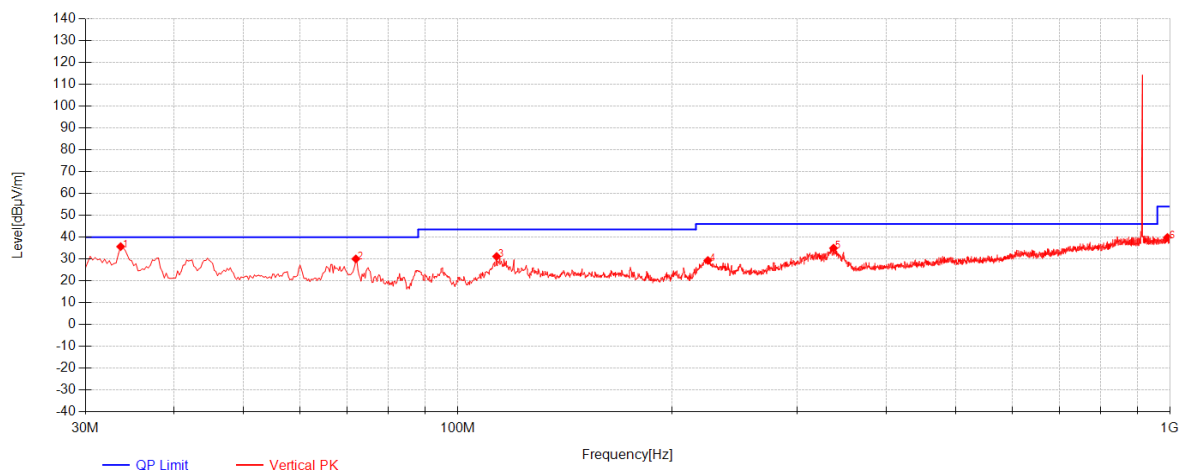
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	33.6375	59.16	18.36	-42.28	35.24	40.00	4.76	Vertical
2	71.9525	53.22	17.66	-41.79	29.09	40.00	10.91	Vertical
3	114.1475	55.11	17.14	-41.41	30.84	43.50	12.66	Vertical
4	224.485	54.96	16.10	-40.53	30.53	46.00	15.47	Vertical
5	341.6125	54.49	20.50	-39.76	35.23	46.00	10.77	Vertical
6	987.875	45.31	30.16	-35.70	39.77	54.00	14.23	Vertical

FSK_200kHz_TX_CH_576_Horizontal



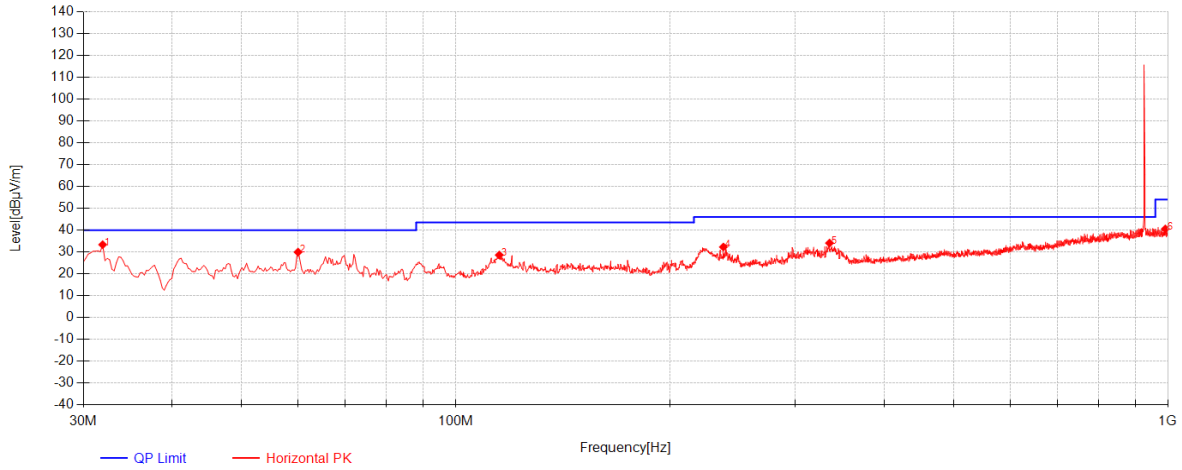
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	33.6375	56.85	18.36	-42.28	32.93	40.00	7.07	Horizontal
2	71.9525	53.11	17.66	-41.79	28.98	40.00	11.02	Horizontal
3	114.6325	53.22	16.95	-41.41	28.76	43.50	14.74	Horizontal
4	240.005	55.33	17.40	-40.25	32.48	46.00	13.52	Horizontal
5	336.2775	53.47	20.31	-39.77	34.02	46.00	11.98	Horizontal
6	978.175	45.79	30.08	-35.64	40.23	54.00	13.77	Horizontal

FSK_200kHz_TX_CH_576_Vertical



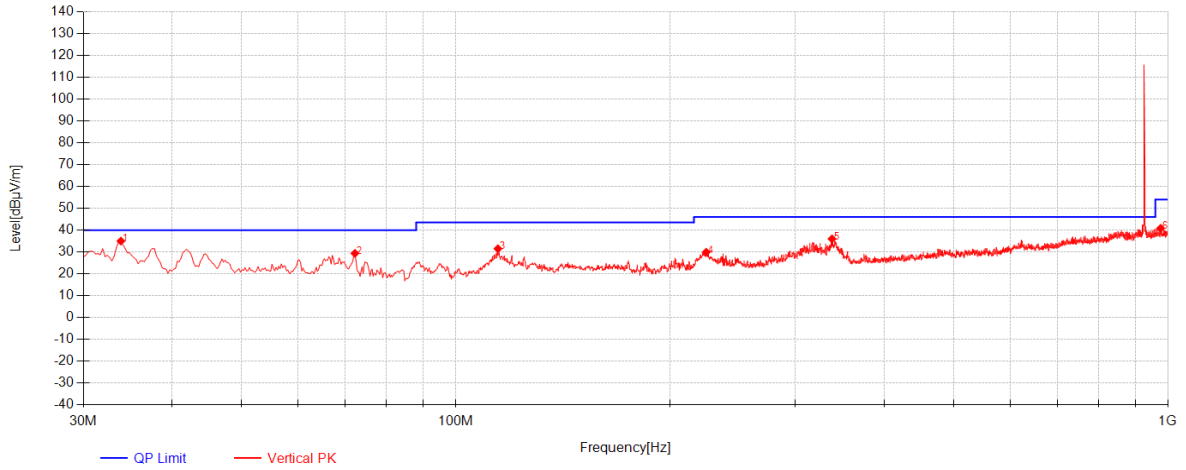
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	33.6375	59.57	18.36	-42.28	35.65	40.00	4.35	Vertical
2	71.9525	54.15	17.66	-41.79	30.02	40.00	9.98	Vertical
3	113.42	56.01	16.56	-41.42	31.16	43.50	12.34	Vertical
4	224.485	53.74	16.10	-40.53	29.31	46.00	16.69	Vertical
5	337.005	54.38	20.35	-39.77	34.96	46.00	11.04	Vertical
6	991.755	45.13	30.43	-35.70	39.86	54.00	14.14	Vertical

FSK_200kHz_TX_CH_640_Horizontal



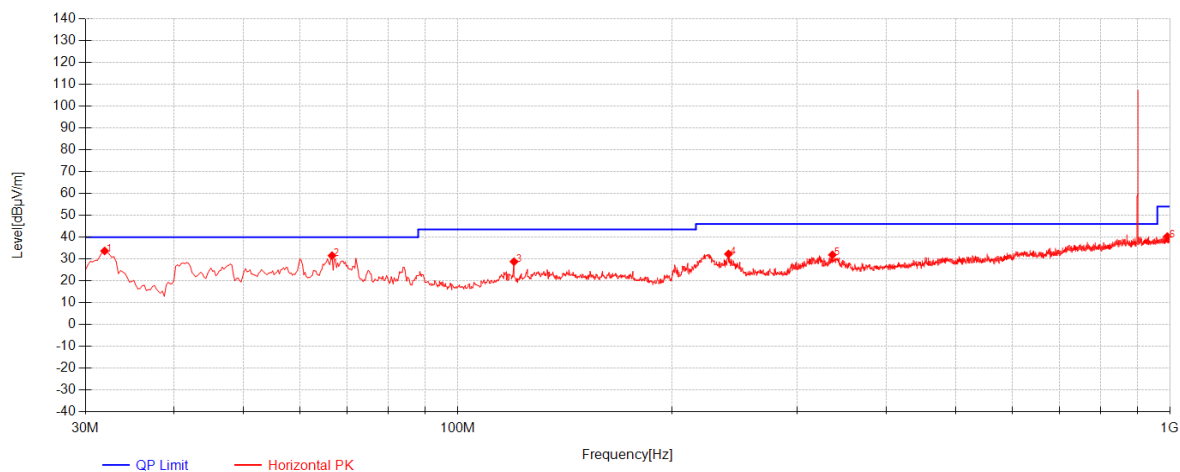
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	31.94	57.15	18.49	-42.29	33.34	40.00	6.66	Horizontal
2	60.07	53.04	18.89	-41.99	29.94	40.00	10.06	Horizontal
3	115.1175	53.28	16.72	-41.40	28.59	43.50	14.91	Horizontal
4	237.58	55.66	16.92	-40.31	32.28	46.00	13.72	Horizontal
5	334.8225	53.30	20.54	-39.77	34.07	46.00	11.93	Horizontal
6	991.5125	45.89	30.35	-35.70	40.54	54.00	13.46	Horizontal

FSK_200kHz_TX_CH_640_Vertical



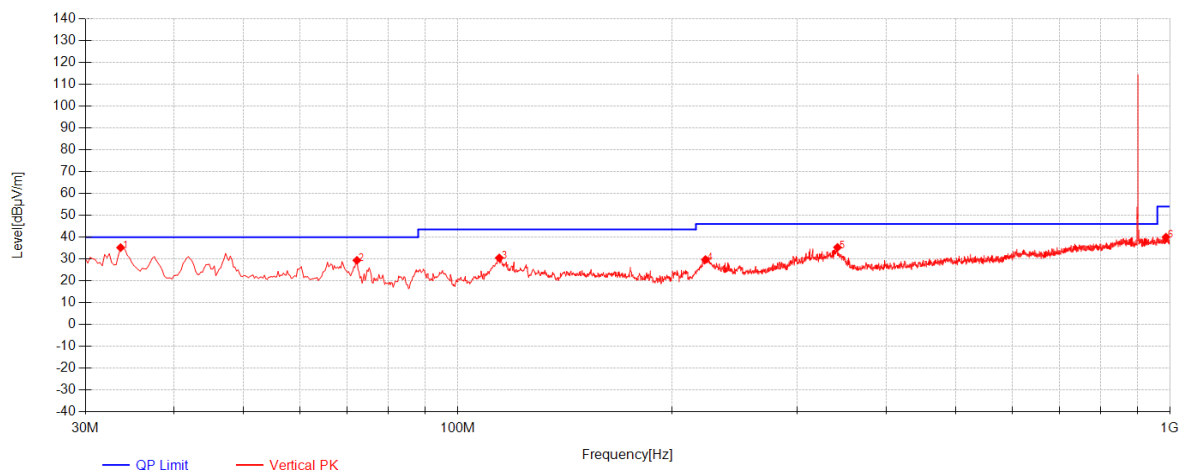
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	33.88	58.88	18.39	-42.28	34.99	40.00	5.01	Vertical
2	72.195	53.79	17.37	-41.79	29.37	40.00	10.63	Vertical
3	114.6325	55.95	16.95	-41.41	31.49	43.50	12.01	Vertical
4	224.7275	54.36	16.05	-40.53	29.89	46.00	16.11	Vertical
5	337.49	55.40	20.37	-39.77	36.01	46.00	9.99	Vertical
6	976.4775	47.00	29.49	-35.63	40.86	54.00	13.14	Vertical

OFDM_400kHz_TX_CH_1280_Horizontal



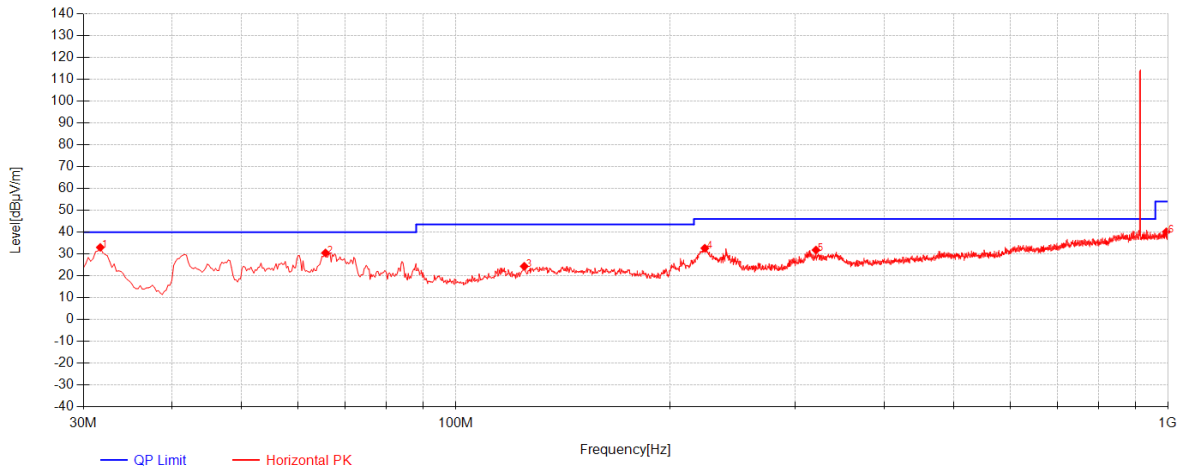
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	31.94	57.50	18.49	-42.29	33.69	40.00	6.31	Horizontal
2	66.6175	55.25	18.16	-41.88	31.53	40.00	8.47	Horizontal
3	119.9675	52.85	17.29	-41.37	28.77	43.50	14.73	Horizontal
4	240.005	55.11	17.40	-40.25	32.26	46.00	13.74	Horizontal
5	335.7925	51.31	20.34	-39.77	31.88	46.00	14.12	Horizontal
6	991.5125	45.61	30.35	-35.70	40.26	54.00	13.74	Horizontal

OFDM_400kHz_TX_CH_1280_Vertical



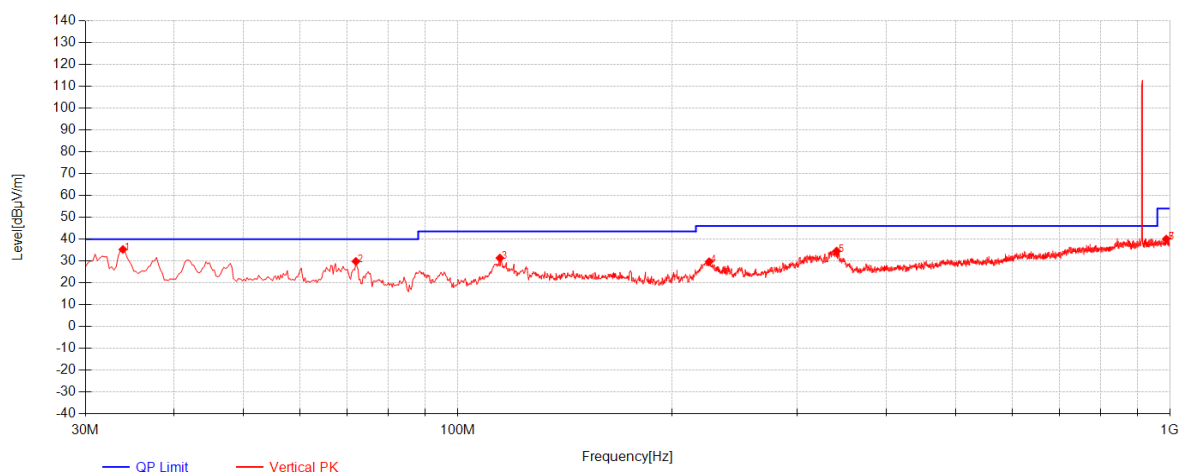
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	33.6375	59.12	18.36	-42.28	35.20	40.00	4.80	Vertical
2	72.195	53.78	17.37	-41.79	29.36	40.00	10.64	Vertical
3	114.39	54.86	17.04	-41.41	30.49	43.50	13.01	Vertical
4	222.7875	53.94	16.32	-40.54	29.72	46.00	16.28	Vertical
5	341.37	54.56	20.50	-39.76	35.30	46.00	10.70	Vertical
6	987.1475	45.79	29.90	-35.69	40.00	54.00	14.00	Vertical

OFDM_400kHz_TX_CH_1311_Horizontal



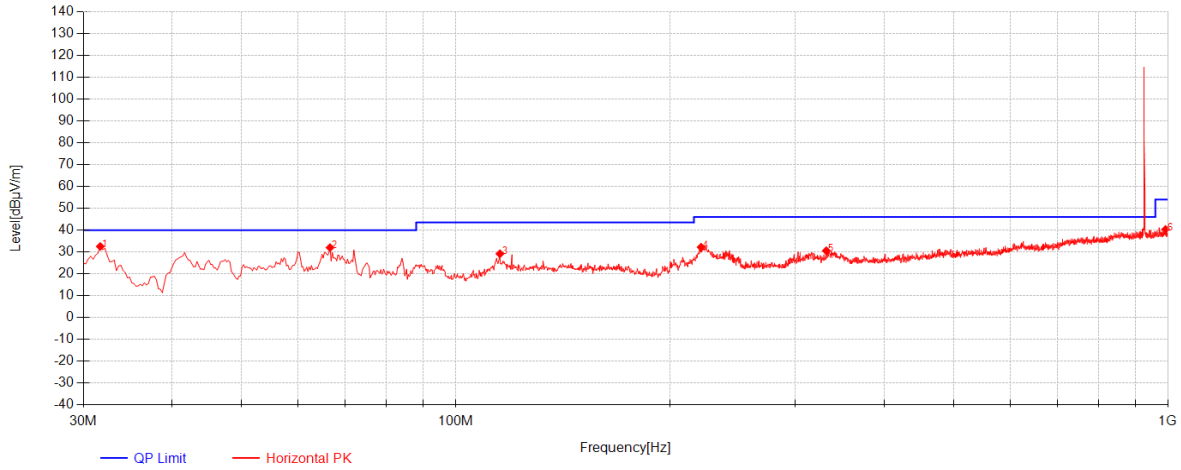
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	31.6975	56.88	18.44	-42.30	33.02	40.00	6.98	Horizontal
2	65.6475	54.17	18.21	-41.90	30.48	40.00	9.52	Horizontal
3	124.8175	48.60	17.09	-41.34	24.35	43.50	19.15	Horizontal
4	223.7575	56.95	16.22	-40.54	32.64	46.00	13.36	Horizontal
5	320.515	51.60	20.00	-39.81	31.80	46.00	14.20	Horizontal
6	994.665	45.98	29.87	-35.68	40.16	54.00	13.84	Horizontal

OFDM_400kHz_TX_CH_1311_Vertical



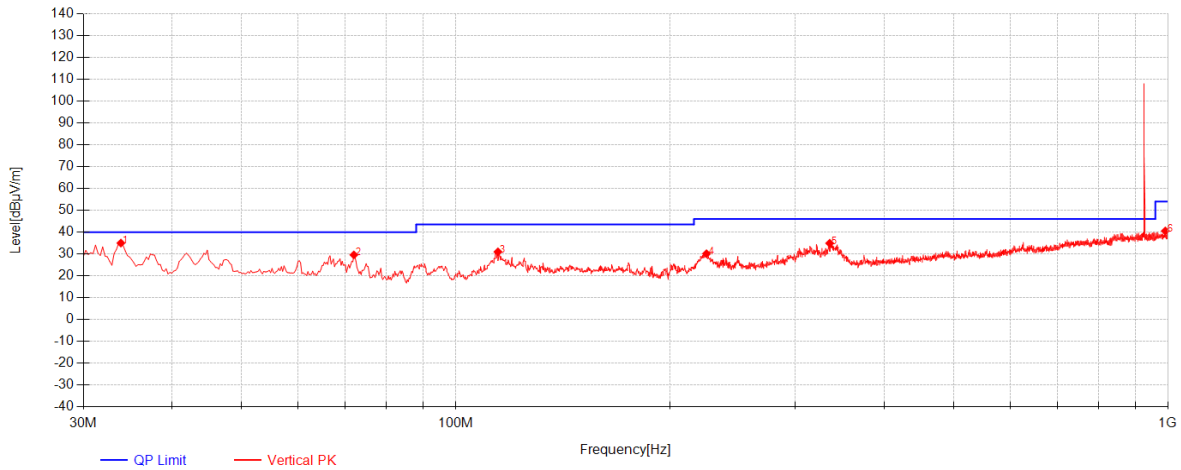
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	33.88	59.17	18.39	-42.28	35.28	40.00	4.72	Vertical
2	71.9525	53.94	17.66	-41.79	29.81	40.00	10.19	Vertical
3	114.6325	55.80	16.95	-41.41	31.34	43.50	12.16	Vertical
4	225.455	54.28	15.91	-40.52	29.67	46.00	16.33	Vertical
5	340.4	53.78	20.50	-39.76	34.52	46.00	11.48	Vertical
6	988.1175	45.57	30.18	-35.70	40.05	54.00	13.95	Vertical
7	988.1175	45.57	30.18	-35.70	40.05	54.00	13.95	Vertical

OFDM_400kHz_TX_CH_1343_Horizontal



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	31.6975	56.40	18.44	-42.30	32.54	40.00	7.46	Horizontal
2	66.6175	55.72	18.16	-41.88	32.00	40.00	8.00	Horizontal
3	115.36	54.01	16.55	-41.40	29.16	43.50	14.34	Horizontal
4	221.09	56.57	16.17	-40.56	32.18	46.00	13.82	Horizontal
5	331.4275	50.49	19.84	-39.77	30.56	46.00	15.44	Horizontal
6	992.24	45.56	30.44	-35.70	40.30	54.00	13.70	Horizontal

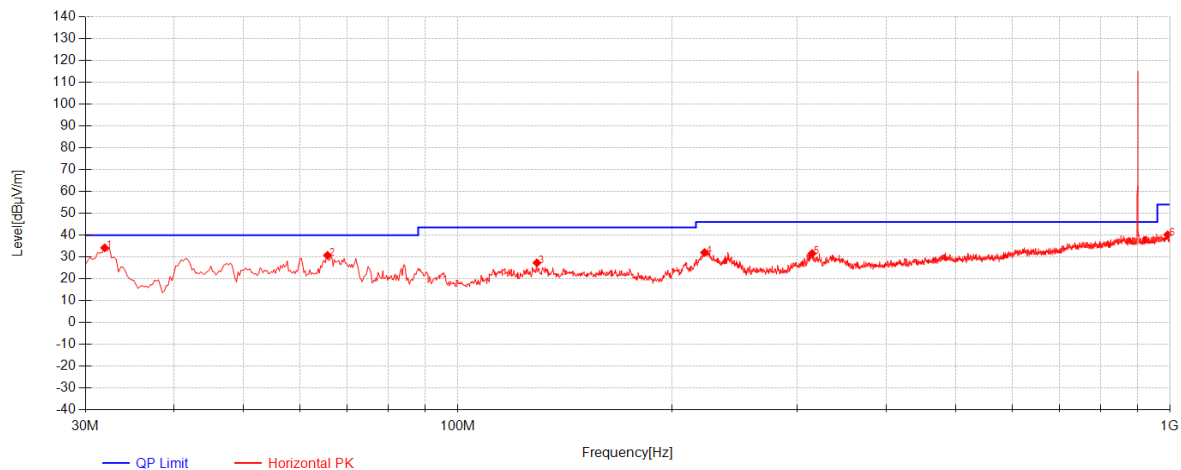
OFDM_400kHz_TX_CH_1343_Vertical



Data List

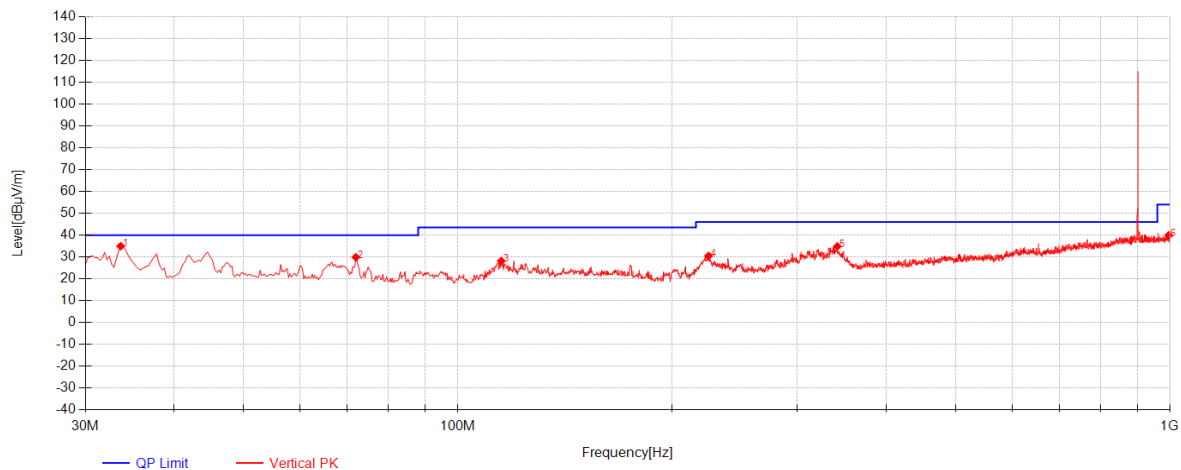
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	33.88	58.88	18.39	-42.28	34.99	40.00	5.01	Vertical
2	71.9525	53.69	17.66	-41.79	29.56	40.00	10.44	Vertical
3	114.6325	55.42	16.95	-41.41	30.96	43.50	12.54	Vertical
4	224.97	54.63	16.01	-40.53	30.11	46.00	15.89	Vertical
5	335.065	54.19	20.49	-39.77	34.91	46.00	11.09	Vertical
6	991.5125	45.89	30.35	-35.70	40.54	54.00	13.46	Vertical

OFDM_200kHz_TX_CH_512_Horizontal



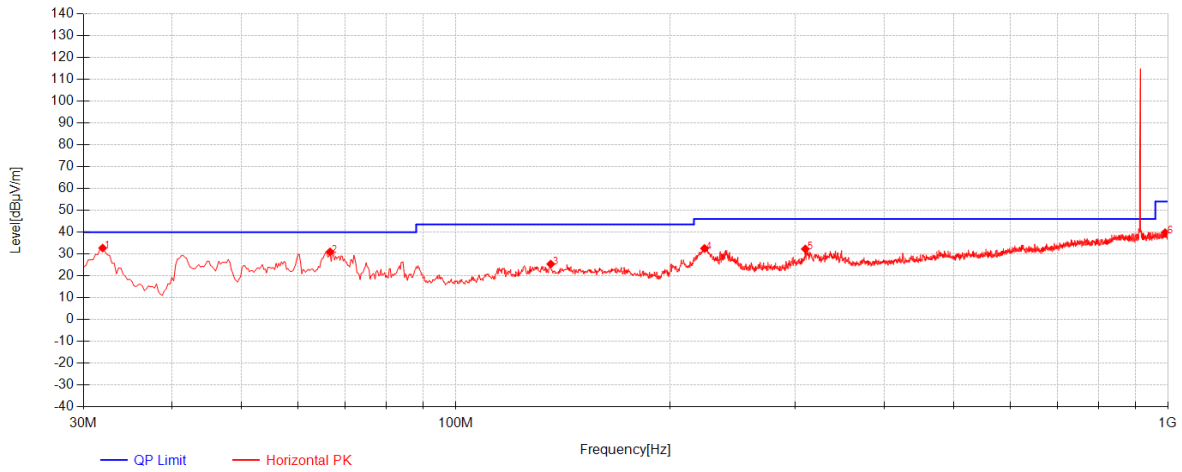
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	31.94	57.99	18.49	-42.29	34.18	40.00	5.82	Horizontal
2	65.6475	54.46	18.21	-41.90	30.77	40.00	9.23	Horizontal
3	129.1825	51.07	17.55	-41.31	27.31	43.50	16.19	Horizontal
4	222.06	56.19	16.39	-40.55	32.03	46.00	13.97	Horizontal
5	314.4525	51.34	20.08	-39.83	31.59	46.00	14.41	Horizontal
6	992.4825	45.51	30.38	-35.70	40.19	54.00	13.81	Horizontal

OFDM_200kHz_TX_CH_512_Vertical



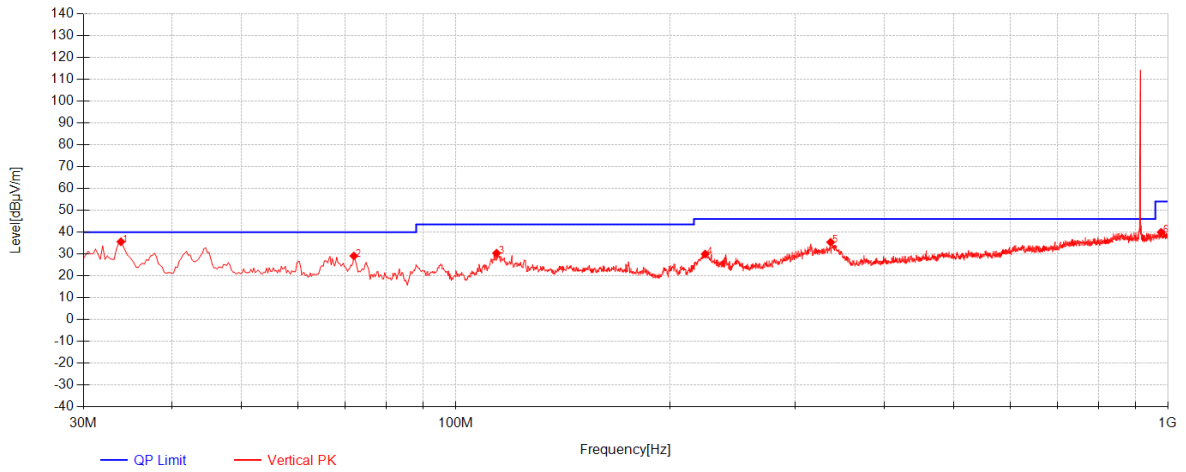
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	33.6375	58.85	18.36	-42.28	34.93	40.00	5.07	Vertical
2	71.9525	54.00	17.66	-41.79	29.87	40.00	10.13	Vertical
3	115.1175	52.85	16.72	-41.40	28.16	43.50	15.34	Vertical
4	224.97	54.99	16.01	-40.53	30.47	46.00	15.53	Vertical
5	341.1275	54.09	20.50	-39.76	34.83	46.00	11.17	Vertical
6	995.8775	45.96	29.62	-35.67	39.91	54.00	14.09	Vertical

OFDM_200kHz_TX_CH_576_Horizontal



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	31.94	56.53	18.49	-42.29	32.72	40.00	7.28	Horizontal
2	66.6175	54.70	18.16	-41.88	30.98	40.00	9.02	Horizontal
3	135.9725	47.43	19.07	-41.13	25.38	43.50	18.12	Horizontal
4	223.515	56.82	16.25	-40.54	32.53	46.00	13.47	Horizontal
5	309.6025	52.16	20.00	-39.85	32.31	46.00	13.69	Horizontal
6	990.785	45.36	30.14	-35.71	39.79	54.00	14.21	Horizontal

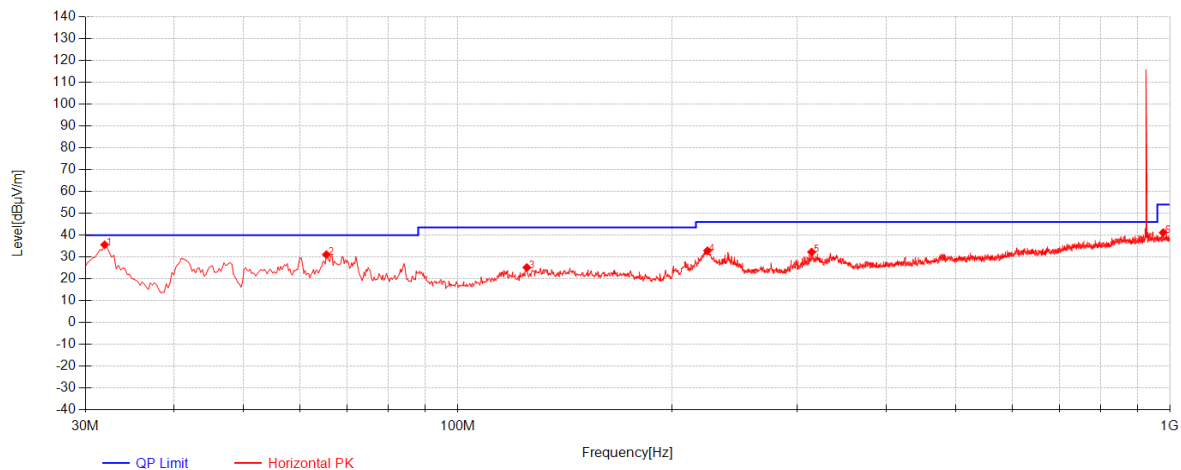
OFDM_200kHz_TX_CH_576_Vertical



Data List

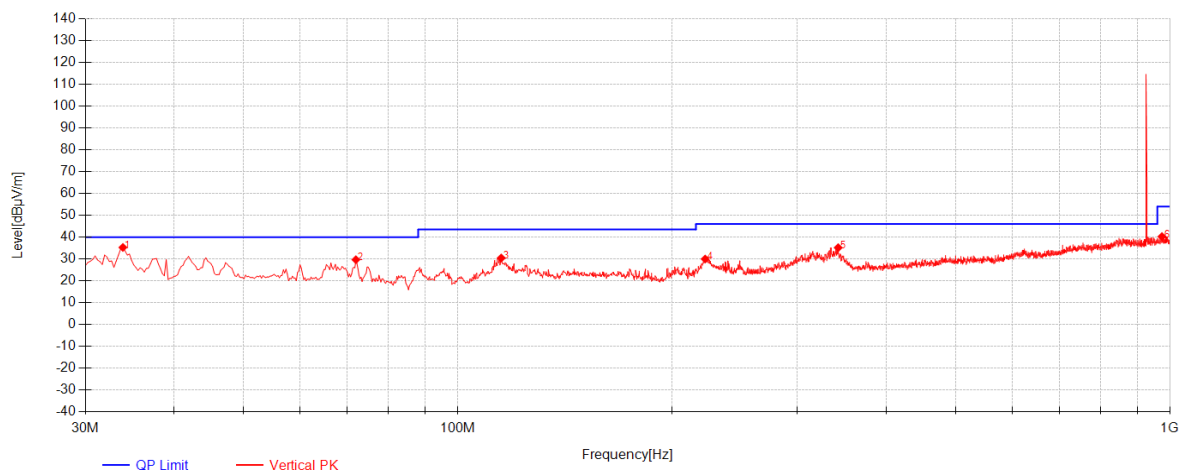
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	33.88	59.50	18.39	-42.28	35.61	40.00	4.39	Vertical
2	71.9525	53.23	17.66	-41.79	29.10	40.00	10.90	Vertical
3	114.1475	54.65	17.14	-41.41	30.38	43.50	13.12	Vertical
4	224	54.28	16.20	-40.53	29.95	46.00	16.05	Vertical
5	336.035	54.85	20.30	-39.77	35.38	46.00	10.62	Vertical
6	977.9325	45.52	30.07	-35.64	39.96	54.00	14.04	Vertical

OFDM_200kHz_TX_CH_640_Horizontal



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	31.94	59.42	18.49	-42.29	35.61	40.00	4.39	Horizontal
2	65.405	54.72	18.28	-41.90	31.09	40.00	8.91	Horizontal
3	125.06	49.46	17.03	-41.33	25.16	43.50	18.34	Horizontal
4	224.2425	57.24	16.15	-40.53	32.86	46.00	13.14	Horizontal
5	313.9675	52.18	19.90	-39.83	32.25	46.00	13.75	Horizontal
6	978.4175	46.76	30.06	-35.64	41.18	54.00	12.82	Horizontal

OFDM_200kHz_TX_CH_640_Vertical



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	33.88	59.18	18.39	-42.28	35.29	40.00	4.71	Vertical
2	71.9525	53.81	17.66	-41.79	29.68	40.00	10.32	Vertical
3	115.1175	55.13	16.72	-41.40	30.44	43.50	13.06	Vertical
4	222.545	54.17	16.35	-40.55	29.97	46.00	16.03	Vertical
5	342.0975	54.46	20.48	-39.76	35.17	46.00	10.83	Vertical
6	974.295	46.14	29.73	-35.62	40.25	54.00	13.75	Vertical

7.2 Radiated Spurious Emissions Above 1GHz

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

Test Method: ANSI C63.10 (2020) Section 6.6 & 11.12

Limit:

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

Note:

At Above 18GHz, measurements may be performed at a distance shorter than that specified in the regulations

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Above 18GHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(1/3) = -9.54\text{dB}$ (for 1m test distance).

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C

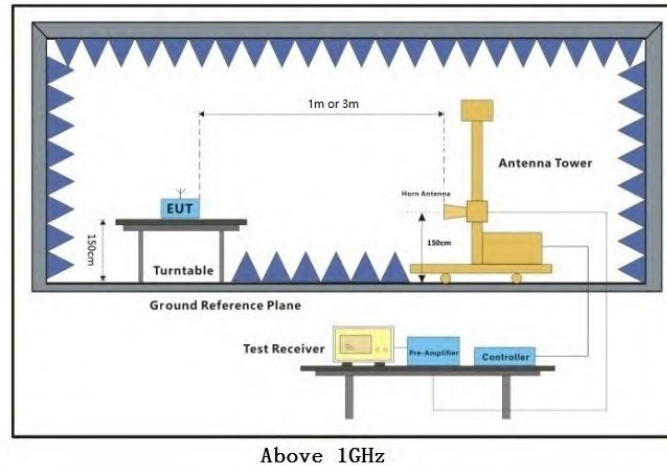
Humidity: 43 % RH

Atmospheric Pressure: 1001 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with FSK modulation.
Final test	03	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with OFDM modulation.

7.2.3 Test Setup Diagram



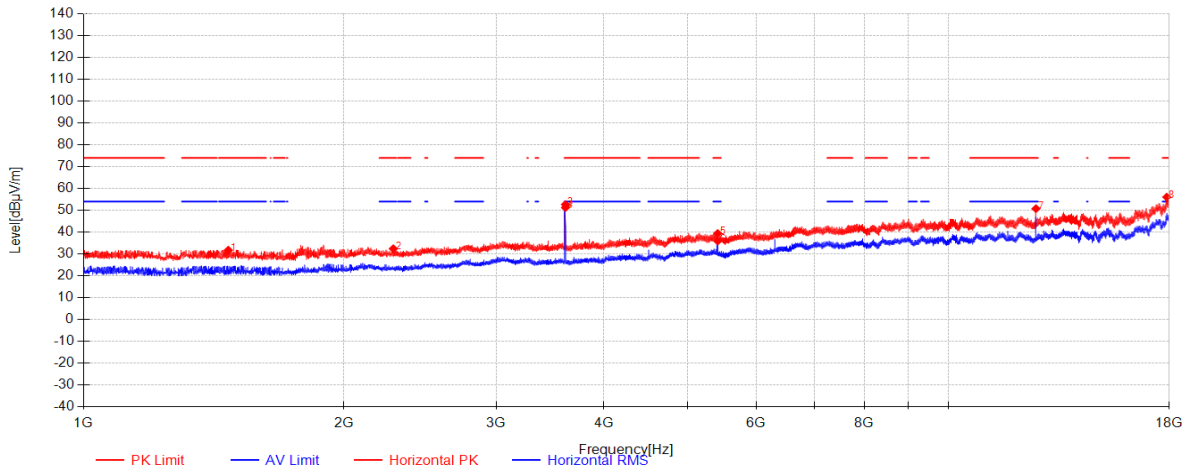
7.2.4 Measurement Procedure and Data

- For above 1GHz, the EUT was placed on the top of a rotating table 1.5m above the ground at a 3m fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3m away from the interference-receiving antenna from 1GHz to 18GHz, and 1m away from the interference-receiving antenna above 18GHz.
- The interference-receiving antenna was mounted on the variable-height antenna tower, with its boresight facing the EUT throughout the test.
- The antenna height is varied from 1m to 4m 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 1m to 4m 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.
- 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:

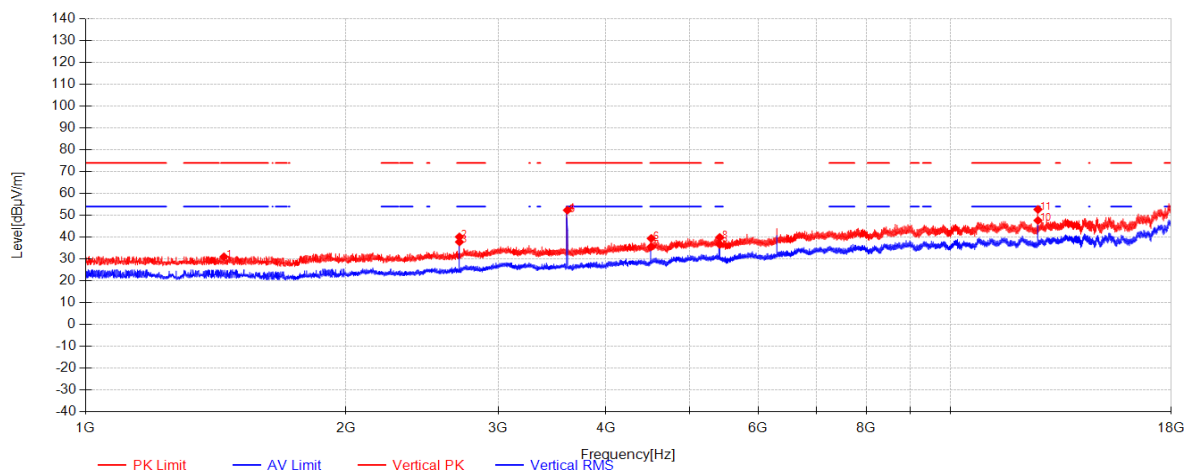
- Scan from 1GHz to 10th harmonic of the highest frequency or 40 GHz, whichever is lower.
- As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits 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.
- For the frequency above 18GHz, testing had been executed under all test modes, only the worst-case test curve is displayed in the report.
- For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s).

FSK_400kHz_TX_CH_1280_Horizontal



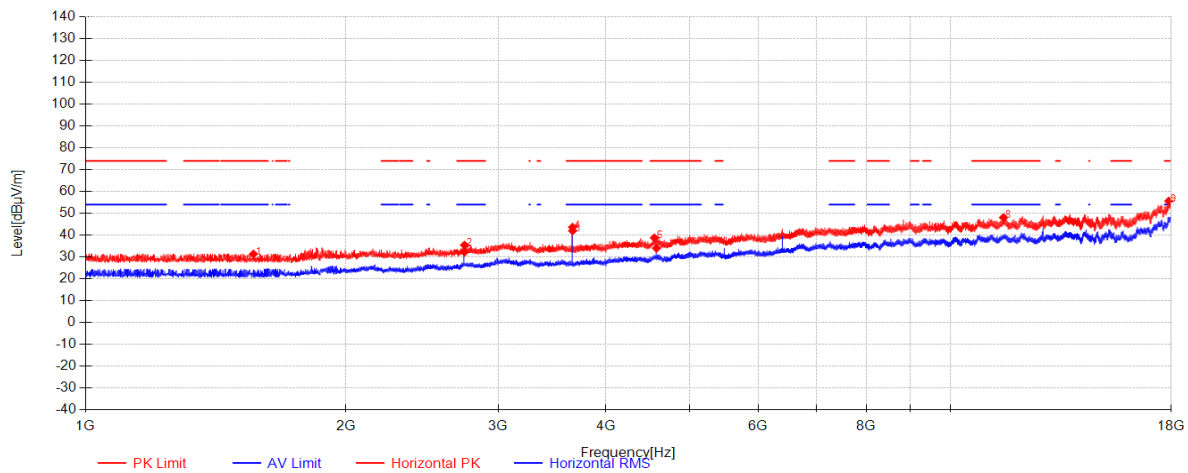
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1470.9	54.12	26.19	-48.56	31.75	74.00	42.25	Horizontal
2	2282.225	53.69	27.17	-48.44	32.42	74.00	41.58	Horizontal
3	3609.5	69.54	29.78	-46.66	52.67	74.00	21.33	Horizontal
4	3609.925	68.13	29.78	-46.66	51.26	54.00	2.74	Horizontal
5	5414.05	51.63	32.94	-45.18	39.39	74.00	34.61	Horizontal
6	5414.475	48.16	32.94	-45.19	35.92	54.00	18.08	Horizontal
7	12634.375	50.38	39.24	-38.85	50.77	74.00	23.23	Horizontal
8	17896.3	46.03	42.57	-32.54	56.07	74.00	17.93	Horizontal

FSK_400kHz_TX_CH_1280_Vertical



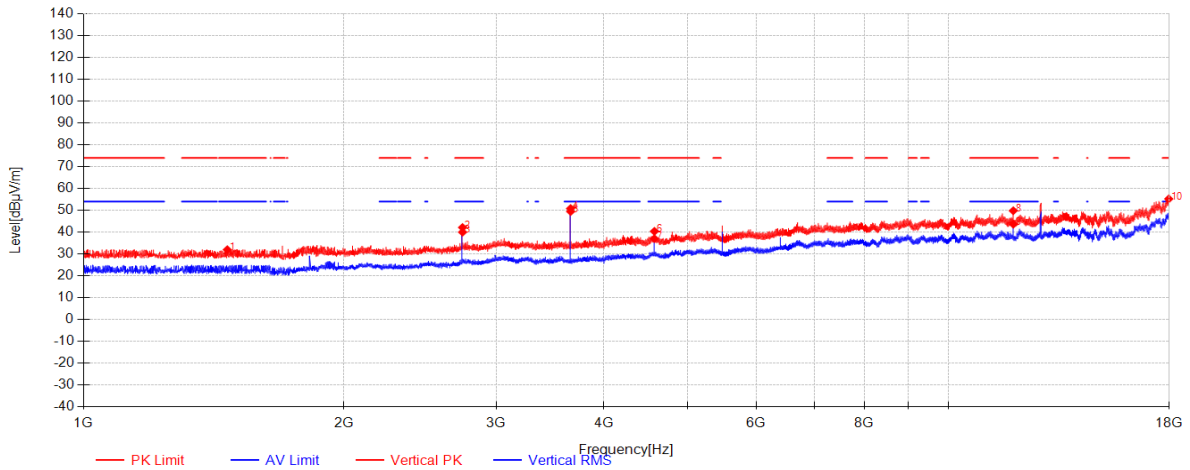
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1446.25	53.20	26.42	-48.60	31.02	74.00	42.98	Vertical
2	2707.225	59.09	28.53	-47.48	40.13	74.00	33.87	Vertical
3	2707.65	56.74	28.53	-47.48	37.79	54.00	16.21	Vertical
4	3609.5	69.22	29.78	-46.66	52.35	74.00	21.65	Vertical
5	3609.925	68.67	29.78	-46.66	51.80	54.00	2.20	Vertical
6	4512.2	54.32	31.85	-46.76	39.41	74.00	34.59	Vertical
7	4512.625	50.56	31.85	-46.75	35.66	54.00	18.34	Vertical
8	5414.05	52.12	32.94	-45.18	39.88	74.00	34.12	Vertical
9	5414.9	48.87	32.94	-45.19	36.62	54.00	17.38	Vertical
10	12633.525	47.27	39.23	-38.85	47.65	54.00	6.35	Vertical
11	12634.375	52.29	39.24	-38.85	52.68	74.00	21.32	Vertical

FSK_400kHz_TX_CH_1311_Horizontal



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1564.4	54.34	25.66	-48.63	31.37	74.00	42.63	Horizontal
2	2744.2	54.02	28.68	-47.25	35.45	74.00	38.55	Horizontal
3	2744.625	50.79	28.68	-47.25	32.22	54.00	21.78	Horizontal
4	3659.225	60.50	29.74	-46.58	43.66	74.00	30.34	Horizontal
5	3659.65	58.81	29.74	-46.58	41.97	54.00	12.03	Horizontal
6	4549.175	52.94	32.29	-46.45	38.78	74.00	35.22	Horizontal
7	4574.675	48.07	32.15	-46.23	33.99	54.00	20.01	Horizontal
8	11525.125	46.47	38.90	-37.29	48.08	74.00	25.92	Horizontal
9	17896.725	45.59	42.58	-32.53	55.63	74.00	18.37	Horizontal

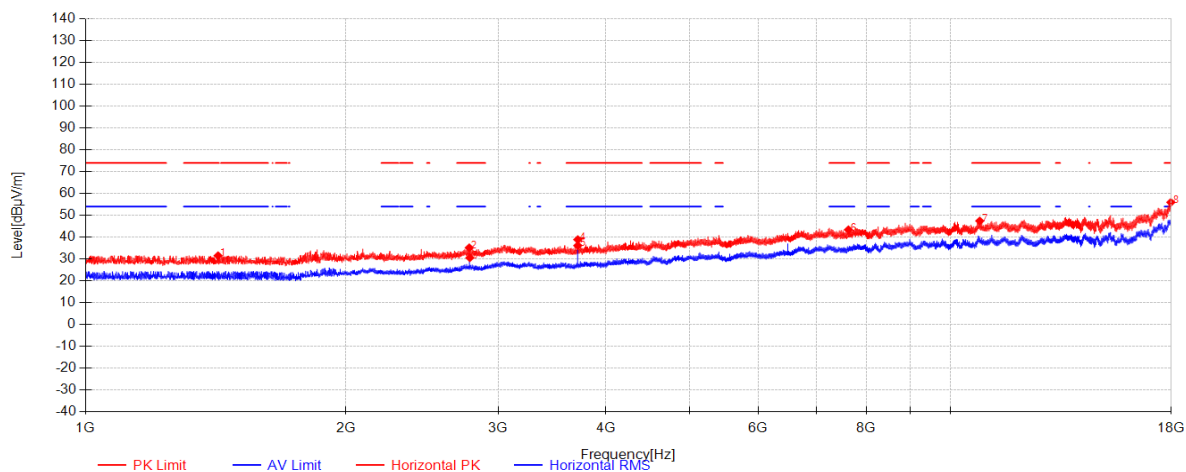
FSK_400kHz_TX_CH_1311_Vertical



Data List

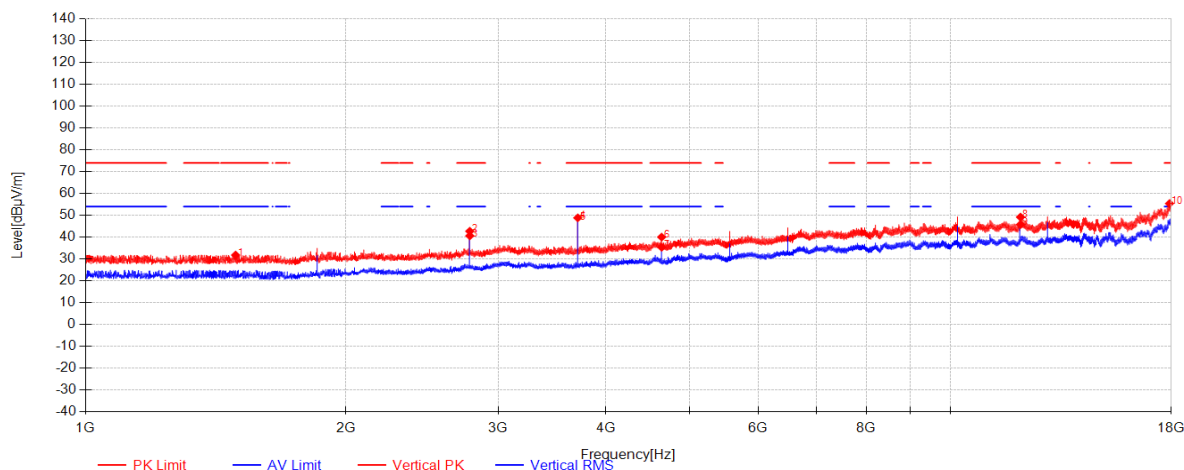
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1467.075	54.31	26.23	-48.57	31.97	74.00	42.03	Vertical
2	2744.625	60.71	28.68	-47.25	42.14	74.00	31.86	Vertical
3	2744.625	58.55	28.68	-47.25	39.98	54.00	14.02	Vertical
4	3659.225	67.68	29.74	-46.58	50.84	74.00	23.16	Vertical
5	3659.65	66.30	29.74	-46.58	49.46	54.00	4.54	Vertical
6	4574.25	54.45	32.15	-46.24	40.37	74.00	33.63	Vertical
7	4574.25	51.10	32.15	-46.24	37.02	54.00	16.98	Vertical
8	11893.175	49.25	38.80	-38.23	49.82	74.00	24.18	Vertical
9	11893.6	43.07	38.80	-38.23	43.64	54.00	10.36	Vertical
10	17992.775	43.33	43.06	-31.15	55.25	74.00	18.75	Vertical

FSK_400kHz_TX_CH_1343_Horizontal



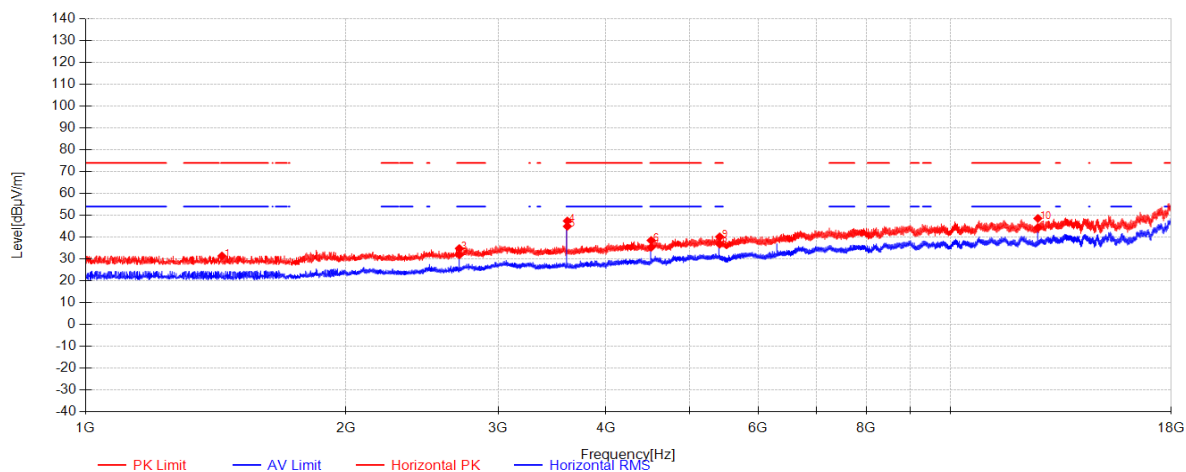
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1423.725	53.58	26.56	-48.64	31.50	74.00	42.50	Horizontal
2	2779.05	53.46	28.70	-47.03	35.13	74.00	38.87	Horizontal
3	2783.3	48.84	28.70	-47.01	30.53	54.00	23.47	Horizontal
4	3710.225	55.44	30.00	-46.57	38.88	74.00	35.12	Horizontal
5	3710.65	52.70	30.01	-46.57	36.14	54.00	17.86	Horizontal
6	7626.175	50.56	36.21	-43.38	43.39	74.00	30.61	Horizontal
7	10820.475	46.58	39.02	-38.17	47.43	74.00	26.57	Horizontal
8	17996.6	43.98	43.08	-31.09	55.97	74.00	18.03	Horizontal

FSK_400kHz_TX_CH_1343_Vertical



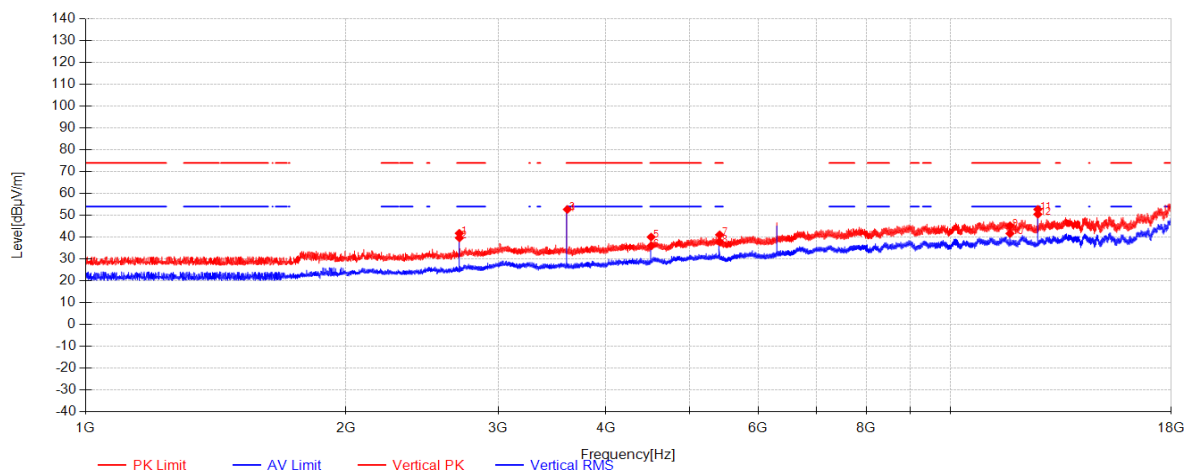
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1491.725	54.33	25.98	-48.52	31.79	74.00	42.21	Vertical
2	2782.875	61.01	28.70	-47.01	42.70	74.00	31.30	Vertical
3	2783.3	58.92	28.70	-47.01	40.61	54.00	13.39	Vertical
4	3710.225	65.41	30.00	-46.57	48.85	74.00	25.15	Vertical
5	3710.65	64.57	30.01	-46.57	48.01	54.00	5.99	Vertical
6	4638.425	54.49	31.85	-46.31	40.03	74.00	33.97	Vertical
7	4638.85	49.83	31.84	-46.31	35.36	54.00	18.64	Vertical
8	12059.35	47.76	38.92	-37.45	49.22	74.00	24.78	Vertical
9	12059.775	44.31	38.92	-37.45	45.78	54.00	8.22	Vertical
10	17934.125	44.65	42.77	-32.01	55.41	74.00	18.59	Vertical

FSK_200kHz_TX_CH_512_Horizontal



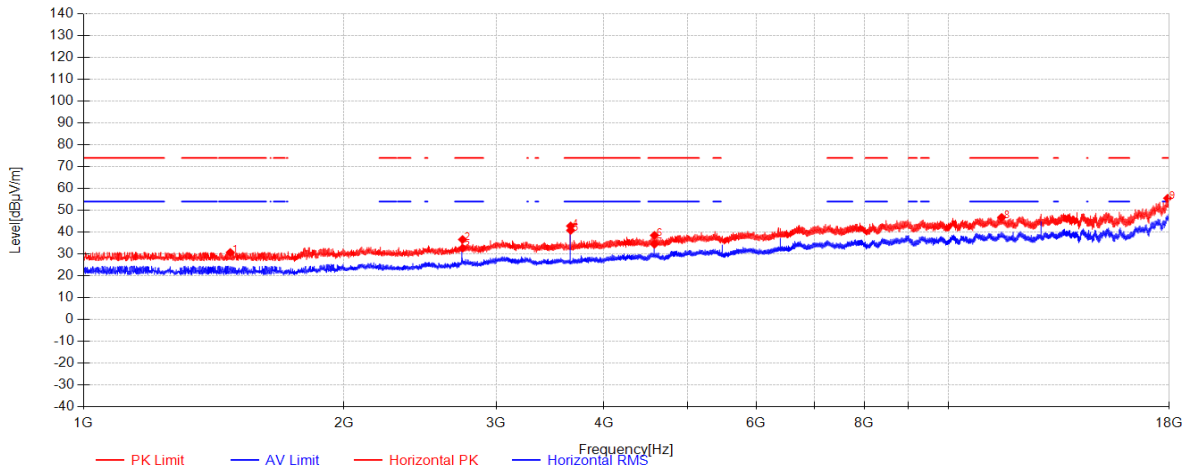
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1438.6	53.54	26.47	-48.61	31.39	74.00	42.61	Horizontal
2	2706.8	50.81	28.53	-47.49	31.85	54.00	22.15	Horizontal
3	2706.8	53.77	28.53	-47.49	34.81	74.00	39.19	Horizontal
4	3608.65	64.31	29.78	-46.66	47.44	74.00	26.56	Horizontal
5	3609.075	61.83	29.78	-46.66	44.96	54.00	9.04	Horizontal
6	4510.925	53.44	31.83	-46.77	38.50	74.00	35.50	Horizontal
7	4511.35	50.28	31.84	-46.76	35.35	54.00	18.65	Horizontal
8	5413.625	49.00	32.95	-45.17	36.77	54.00	17.23	Horizontal
9	5413.625	52.39	32.95	-45.17	40.16	74.00	33.84	Horizontal
10	12630.975	48.22	39.22	-38.87	48.58	74.00	25.42	Horizontal
11	12631.4	44.02	39.23	-38.87	44.38	54.00	9.62	Horizontal

FSK_200kHz_TX_CH_512_Vertical



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2706.8	60.73	28.53	-47.49	41.77	74.00	32.23	Vertical
2	2707.225	58.60	28.53	-47.48	39.64	54.00	14.36	Vertical
3	3608.65	69.58	29.78	-46.66	52.71	74.00	21.29	Vertical
4	3609.075	68.89	29.78	-46.66	52.02	54.00	1.98	Vertical
5	4510.925	55.01	31.83	-46.77	40.07	74.00	33.93	Vertical
6	4511.35	50.99	31.84	-46.76	36.06	54.00	17.94	Vertical
7	5413.2	53.31	32.95	-45.17	41.09	74.00	32.91	Vertical
8	5413.625	50.07	32.95	-45.17	37.84	54.00	16.16	Vertical
9	11728.275	44.45	38.73	-37.94	45.24	74.00	28.76	Vertical
10	11728.7	40.89	38.73	-37.94	41.68	54.00	12.32	Vertical
11	12630.975	52.36	39.22	-38.87	52.72	74.00	21.28	Vertical
12	12631.4	50.12	39.23	-38.87	50.48	54.00	3.52	Vertical

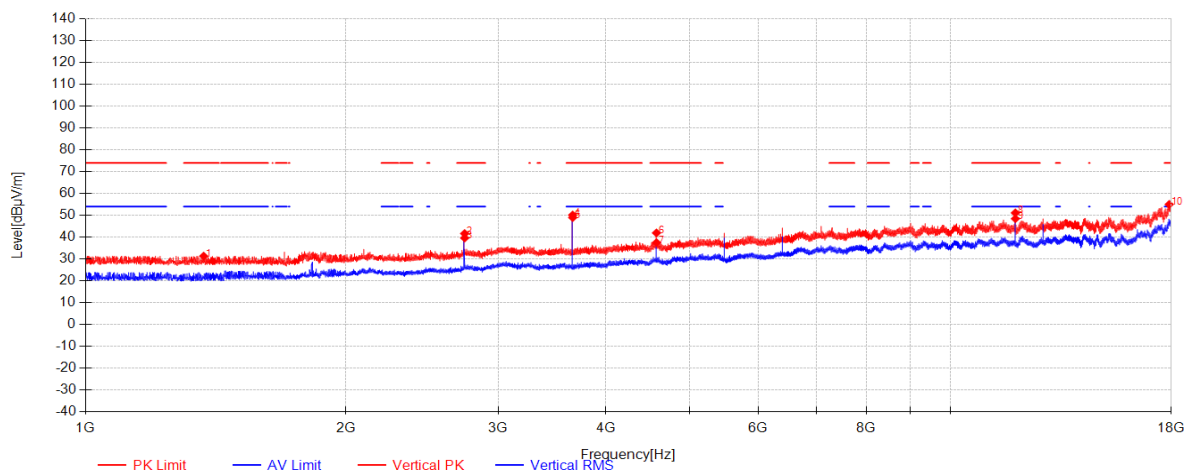
FSK_200kHz_TX_CH_576_Horizontal



Data List

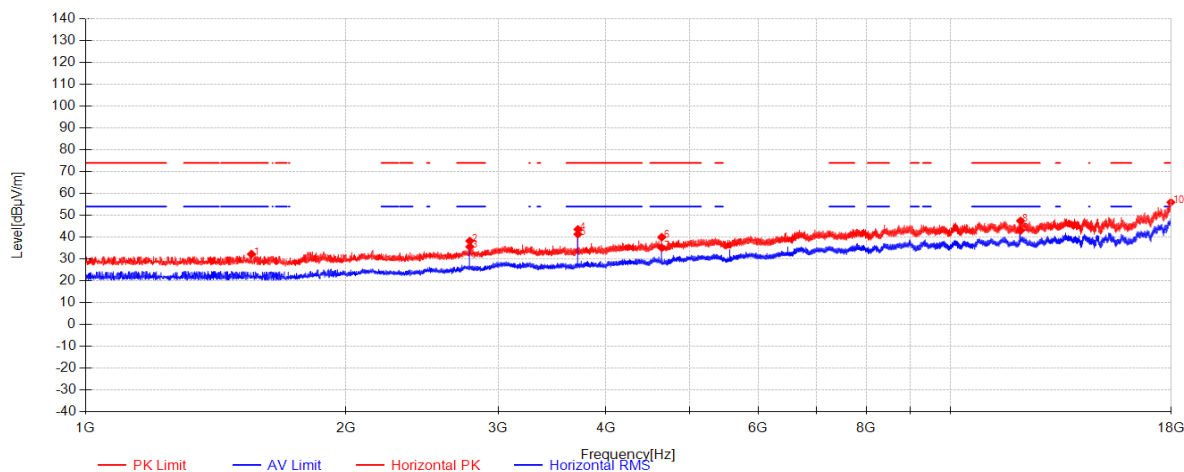
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1	1478.975	53.15	26.11	-48.55	30.71	74.00	43.29	Horizontal
2	2744.625	55.18	28.68	-47.25	36.61	74.00	37.39	Horizontal
3	2745.475	51.20	28.68	-47.24	32.64	54.00	21.36	Horizontal
4	3659.65	59.67	29.74	-46.58	42.83	74.00	31.17	Horizontal
5	3660.5	57.68	29.74	-46.58	40.84	54.00	13.16	Horizontal
6	4575.1	52.61	32.15	-46.23	38.53	74.00	35.47	Horizontal
7	4575.525	48.51	32.15	-46.23	34.43	54.00	19.57	Horizontal
8	11528.95	45.11	38.90	-37.26	46.75	74.00	27.25	Horizontal
9	17938.375	44.71	42.79	-31.95	55.56	74.00	18.44	Horizontal

FSK_200kHz_TX_CH_576_Vertical



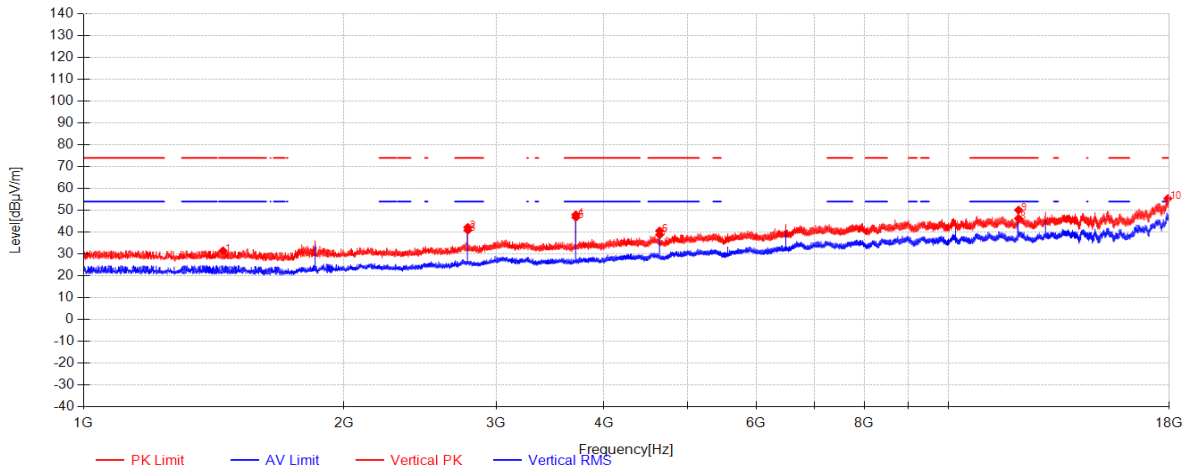
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1370.175	53.60	26.40	-48.70	31.30	74.00	42.70	Vertical
2	2745.05	60.22	28.68	-47.25	41.65	74.00	32.35	Vertical
3	2745.475	58.16	28.68	-47.24	39.60	54.00	14.40	Vertical
4	3660.075	66.97	29.74	-46.58	50.13	74.00	23.87	Vertical
5	3660.5	65.81	29.74	-46.58	48.97	54.00	5.03	Vertical
6	4575.1	56.02	32.15	-46.23	41.94	74.00	32.06	Vertical
7	4575.525	51.56	32.15	-46.23	37.48	54.00	16.52	Vertical
8	11895.3	50.56	38.80	-38.23	51.13	74.00	22.87	Vertical
9	11895.725	47.90	38.80	-38.24	48.46	54.00	5.54	Vertical
10	17919.675	44.54	42.70	-32.22	55.02	74.00	18.98	Vertical

FSK_200kHz_TX_CH_640_Horizontal



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1556.325	55.21	25.63	-48.61	32.22	74.00	41.78	Horizontal
2	2783.3	56.55	28.70	-47.01	38.24	74.00	35.76	Horizontal
3	2783.725	53.88	28.70	-47.00	35.58	54.00	18.42	Horizontal
4	3711.5	60.14	30.02	-46.57	43.58	74.00	30.42	Horizontal
5	3711.5	57.91	30.02	-46.57	41.35	54.00	12.65	Horizontal
6	4639.275	54.44	31.84	-46.31	39.97	74.00	34.03	Horizontal
7	4639.275	49.61	31.84	-46.31	35.14	54.00	18.86	Horizontal
8	12061.475	45.96	38.92	-37.42	47.46	74.00	26.54	Horizontal
9	12062.325	41.51	38.92	-37.41	43.03	54.00	10.97	Horizontal
10	18000	43.89	43.10	-31.04	55.95	74.00	18.05	Horizontal

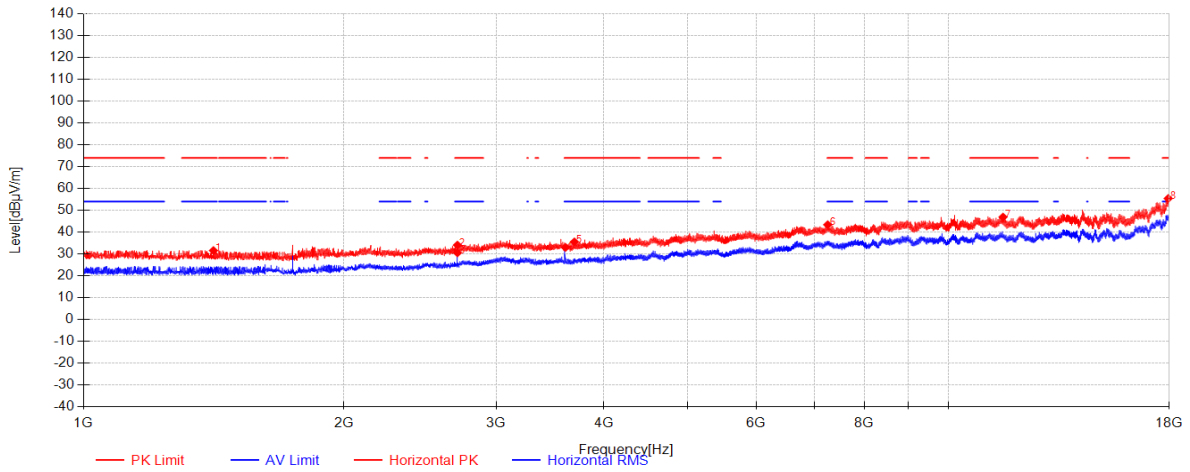
FSK_200kHz_TX_CH_640_Vertical



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1450.5	53.65	26.40	-48.59	31.45	74.00	42.55	Vertical
2	2783.3	60.50	28.70	-47.01	42.19	74.00	31.81	Vertical
3	2783.725	59.15	28.70	-47.00	40.85	54.00	13.15	Vertical
4	3711.075	64.53	30.01	-46.57	47.97	74.00	26.03	Vertical
5	3711.5	63.31	30.02	-46.57	46.75	54.00	7.25	Vertical
6	4638.85	55.06	31.84	-46.31	40.59	74.00	33.41	Vertical
7	4639.275	53.26	31.84	-46.31	38.79	54.00	15.21	Vertical
8	12061.475	44.76	38.92	-37.42	46.26	54.00	7.74	Vertical
9	12061.9	48.62	38.92	-37.41	50.13	74.00	23.87	Vertical
10	17947.725	44.35	42.84	-31.81	55.38	74.00	18.62	Vertical

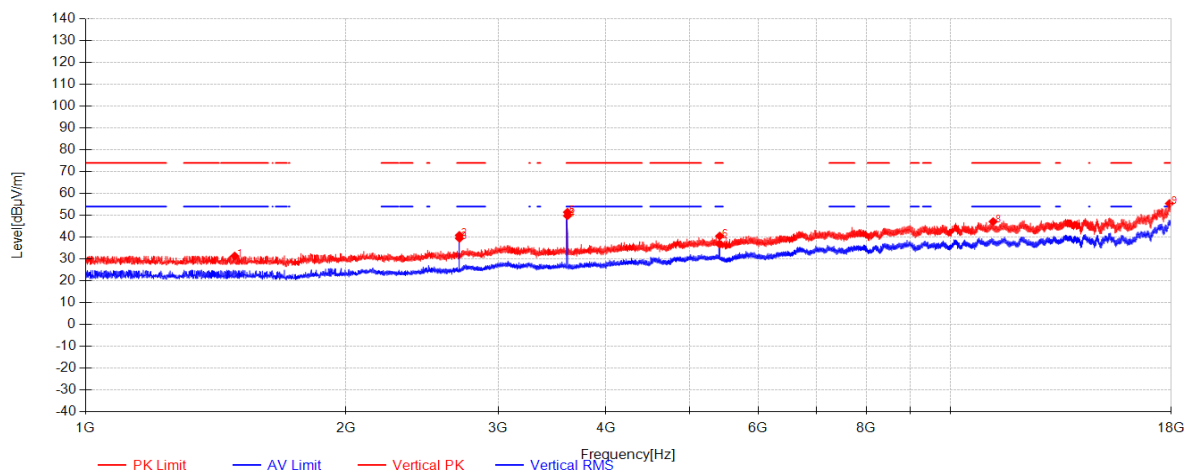
OFDM_400kHz_TX_CH_1280_Horizontal



Data List

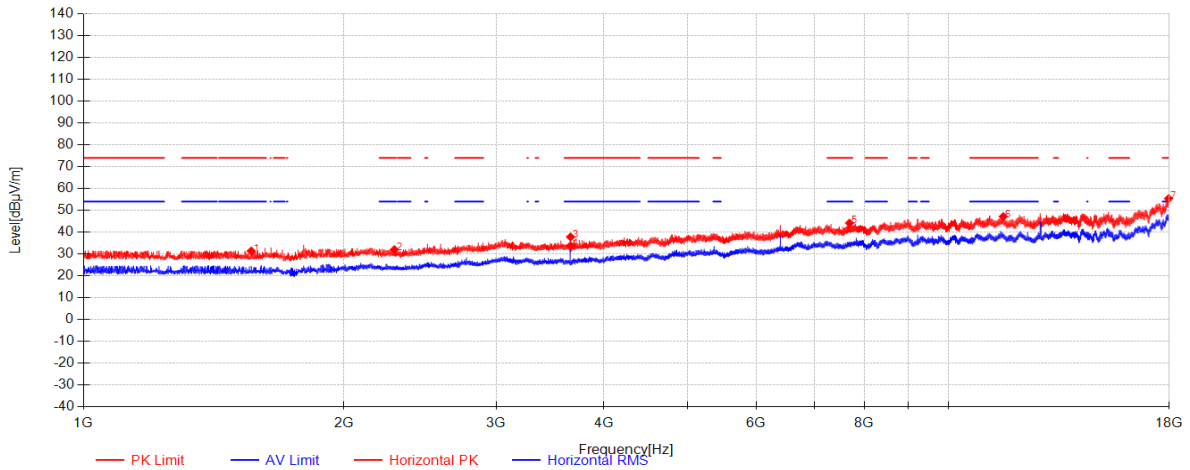
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1413.95	53.61	26.62	-48.66	31.57	74.00	42.43	Horizontal
2	2707.225	53.03	28.53	-47.48	34.07	74.00	39.93	Horizontal
3	2707.65	49.45	28.53	-47.48	30.50	54.00	23.50	Horizontal
4	3609.925	49.85	29.78	-46.66	32.98	54.00	21.02	Horizontal
5	3696.625	52.18	29.89	-46.53	35.54	74.00	38.46	Horizontal
6	7256.425	51.04	36.66	-44.29	43.41	74.00	30.59	Horizontal
7	11572.725	44.89	38.90	-36.87	46.92	74.00	27.08	Horizontal
8	17963.875	44.07	42.92	-31.57	55.42	74.00	18.58	Horizontal

OFDM_400kHz_TX_CH_1280_Vertical



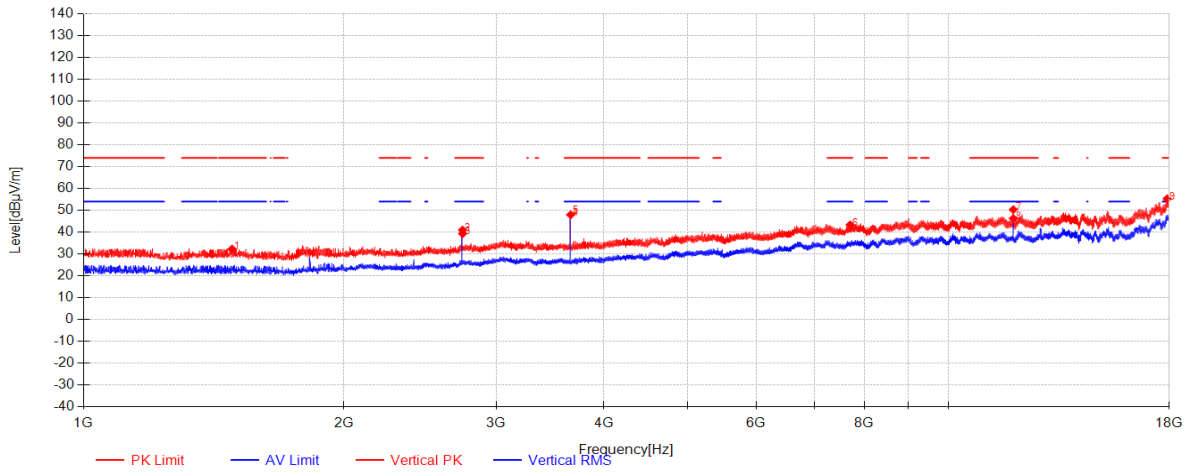
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1488.325	53.85	26.02	-48.53	31.34	74.00	42.66	Vertical
2	2707.225	59.81	28.53	-47.48	40.85	74.00	33.15	Vertical
3	2707.65	58.38	28.53	-47.48	39.43	54.00	14.57	Vertical
4	3609.925	66.66	29.78	-46.66	49.79	54.00	4.21	Vertical
5	3609.925	68.30	29.78	-46.66	51.43	74.00	22.57	Vertical
6	5414.05	52.75	32.94	-45.18	40.51	74.00	33.49	Vertical
7	5414.9	48.99	32.94	-45.19	36.74	54.00	17.26	Vertical
8	11211.9	45.89	38.82	-37.57	47.14	74.00	26.86	Vertical
9	17932.85	44.69	42.76	-32.03	55.43	74.00	18.57	Vertical

OFDM_400kHz_TX_CH_1311_Horizontal



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1563.55	54.37	25.65	-48.62	31.40	74.00	42.60	Horizontal
2	2289.025	53.27	27.14	-48.42	32.00	74.00	42.00	Horizontal
3	3658.8	54.68	29.74	-46.58	37.83	74.00	36.17	Horizontal
4	3659.225	50.63	29.74	-46.58	33.79	54.00	20.21	Horizontal
5	7690.775	50.99	36.64	-43.46	44.18	74.00	29.82	Horizontal
6	11579.1	45.08	38.90	-36.81	47.17	74.00	26.83	Horizontal
7	17983	43.68	43.02	-31.29	55.41	74.00	18.59	Horizontal

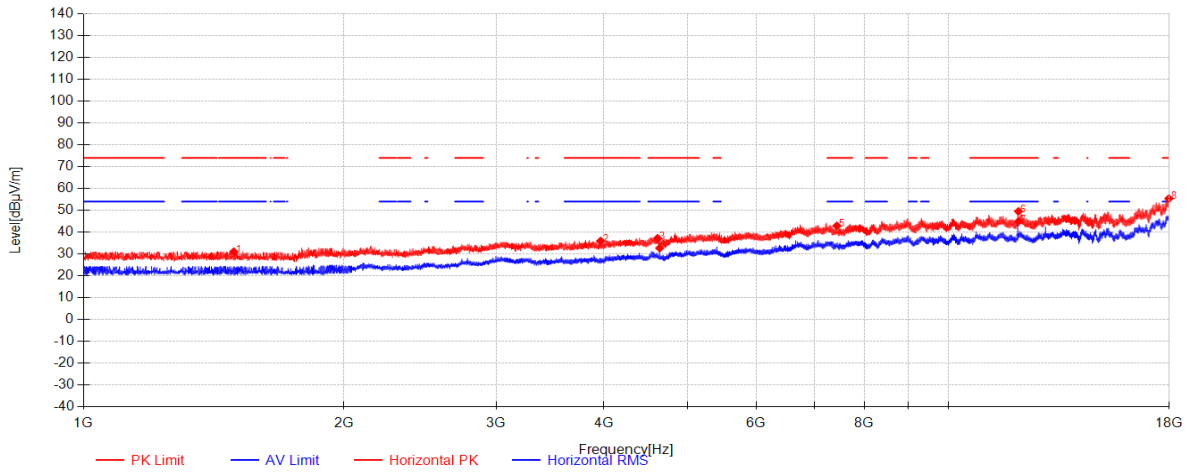
OFDM_400kHz_TX_CH_1311_Vertical



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1485.775	54.76	26.04	-48.53	32.27	74.00	41.73	Vertical
2	2744.625	59.55	28.68	-47.25	40.98	74.00	33.02	Vertical
3	2745.05	57.86	28.68	-47.25	39.29	54.00	14.71	Vertical
4	3659.65	64.80	29.74	-46.58	47.96	54.00	6.04	Vertical
5	3659.65	65.81	29.74	-46.58	48.97	74.00	25.03	Vertical
6	7703.1	50.12	36.71	-43.45	43.37	74.00	30.63	Vertical
7	11892.75	49.78	38.80	-38.23	50.35	74.00	23.65	Vertical
8	11893.175	45.71	38.80	-38.23	46.28	54.00	7.72	Vertical
9	17915	44.92	42.68	-32.29	55.31	74.00	18.69	Vertical

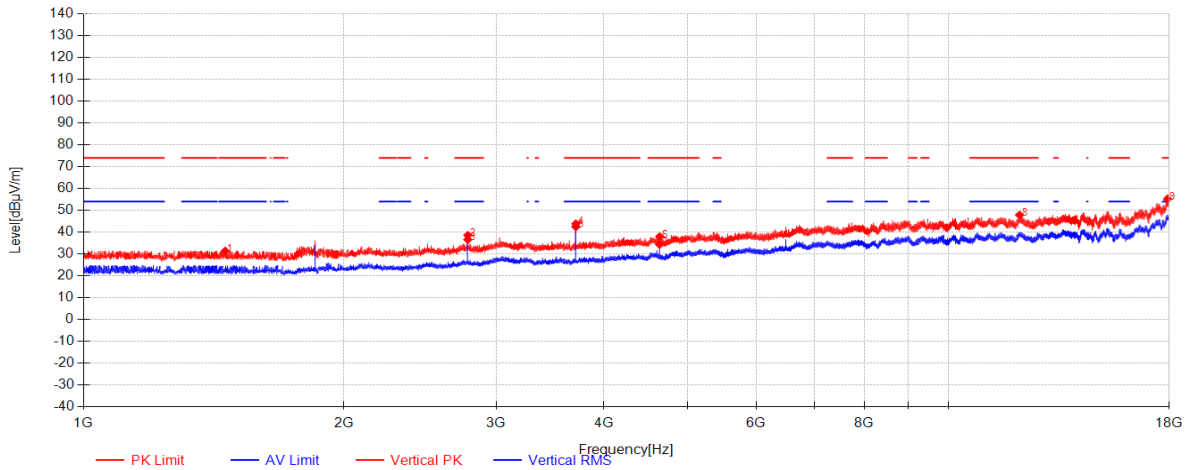
OFDM_400kHz_TX_CH_1343_Horizontal



Data List

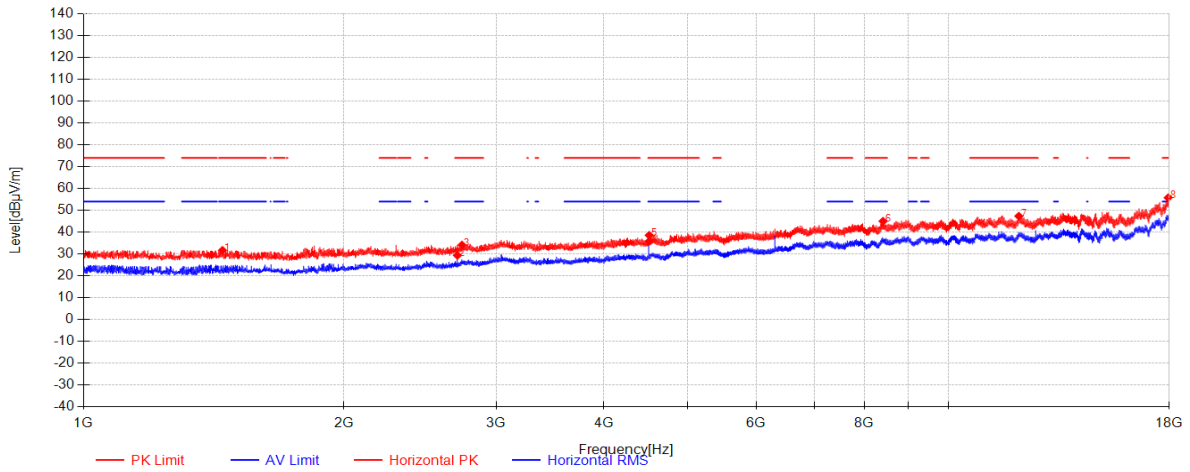
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1492.575	53.59	25.97	-48.52	31.04	74.00	42.96	Horizontal
2	3963.525	52.08	30.84	-46.96	35.96	74.00	38.04	Horizontal
3	4613.35	51.37	31.95	-46.12	37.20	74.00	36.80	Horizontal
4	4638.425	47.13	31.85	-46.31	32.67	54.00	21.33	Horizontal
5	7434.925	50.64	36.61	-44.34	42.91	74.00	31.09	Horizontal
6	12058.075	48.10	38.92	-37.47	49.54	74.00	24.46	Horizontal
7	12058.5	43.43	38.92	-37.47	44.88	54.00	9.12	Horizontal
8	17997.45	43.37	43.09	-31.08	55.38	74.00	18.62	Horizontal

OFDM_400kHz_TX_CH_1343_Vertical



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1459	53.64	26.31	-48.58	31.37	74.00	42.63	Vertical
2	2782.875	56.91	28.70	-47.01	38.60	74.00	35.40	Vertical
3	2783.3	54.89	28.70	-47.01	36.58	54.00	17.42	Vertical
4	3710.65	60.40	30.01	-46.57	43.84	74.00	30.16	Vertical
5	3710.65	59.02	30.01	-46.57	42.46	54.00	11.54	Vertical
6	4638.425	52.41	31.85	-46.31	37.95	74.00	36.05	Vertical
7	4638.425	48.79	31.85	-46.31	34.33	54.00	19.67	Vertical
8	12092.925	45.80	38.99	-36.91	47.87	74.00	26.13	Vertical
9	17932.425	44.55	42.76	-32.03	55.28	74.00	18.72	Vertical

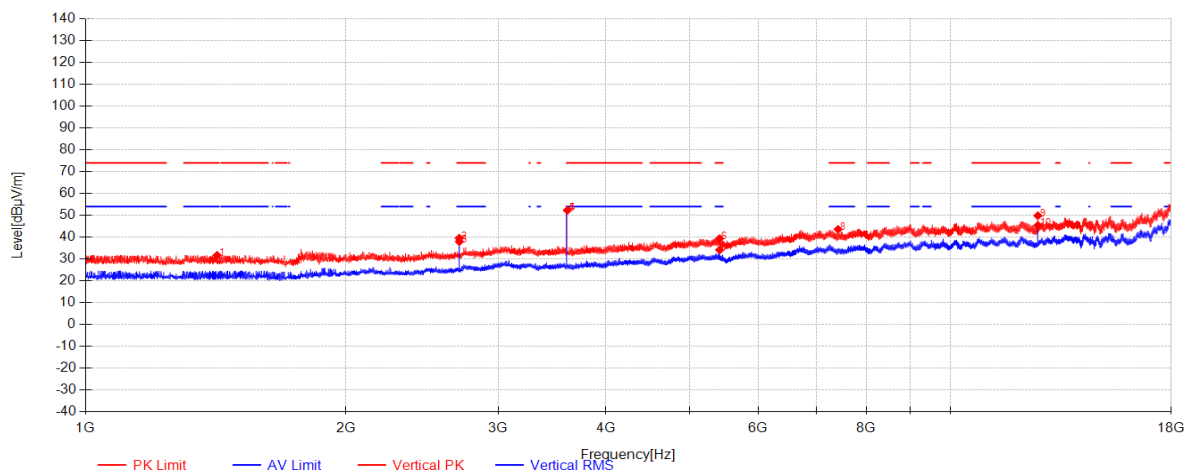
OFDM_200kHz_TX_CH_512_Horizontal



Data List

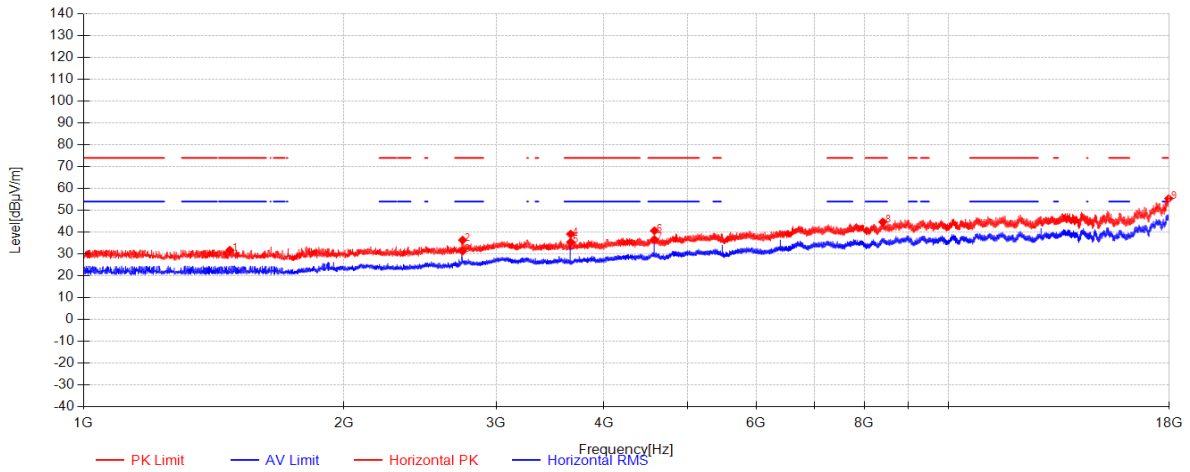
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1448.375	53.85	26.41	-48.60	31.66	74.00	42.34	Horizontal
2	2707.225	48.34	28.53	-47.48	29.38	54.00	24.62	Horizontal
3	2740.375	52.72	28.66	-47.28	34.11	74.00	39.89	Horizontal
4	4511.35	50.73	31.84	-46.76	35.80	54.00	18.20	Horizontal
5	4511.35	53.51	31.84	-46.76	38.58	74.00	35.42	Horizontal
6	8407.75	49.52	37.18	-41.69	45.01	74.00	28.99	Horizontal
7	12071.675	45.64	38.94	-37.26	47.33	74.00	26.67	Horizontal
8	17964.3	44.42	42.92	-31.56	55.78	74.00	18.22	Horizontal

OFDM_200kHz_TX_CH_512_Vertical



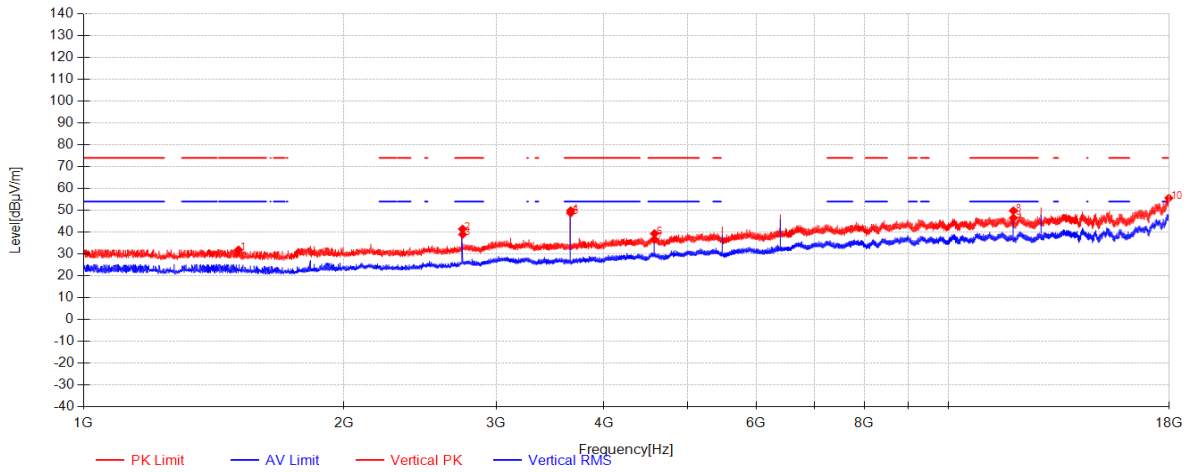
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1420.325	53.75	26.58	-48.65	31.68	74.00	42.32	Vertical
2	2706.375	58.49	28.53	-47.49	39.53	74.00	34.47	Vertical
3	2706.8	56.92	28.53	-47.49	37.96	54.00	16.04	Vertical
4	3609.075	69.18	29.78	-46.66	52.31	54.00	1.69	Vertical
5	3609.075	69.22	29.78	-46.66	52.35	74.00	21.65	Vertical
6	5410.65	51.50	32.96	-45.12	39.33	74.00	34.67	Vertical
7	5413.625	46.38	32.95	-45.17	34.15	54.00	19.85	Vertical
8	7419.2	51.61	36.52	-44.53	43.60	74.00	30.40	Vertical
9	12630.975	49.50	39.22	-38.87	49.86	74.00	24.14	Vertical
10	12631.4	45.05	39.23	-38.87	45.41	54.00	8.59	Vertical

OFDM_200kHz_TX_CH_576_Horizontal



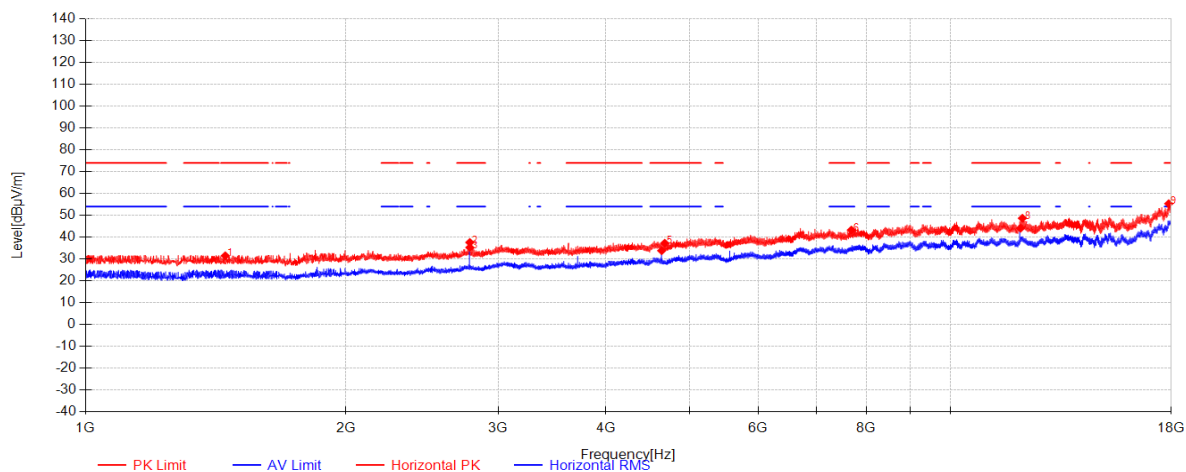
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1476.85	54.18	26.13	-48.55	31.76	74.00	42.24	Horizontal
2	2745.05	54.92	28.68	-47.25	36.35	74.00	37.65	Horizontal
3	2745.475	49.89	28.68	-47.24	31.33	54.00	22.67	Horizontal
4	3660.075	55.95	29.74	-46.58	39.11	74.00	34.89	Horizontal
5	3660.5	52.28	29.74	-46.58	35.44	54.00	18.56	Horizontal
6	4574.675	54.73	32.15	-46.23	40.65	74.00	33.35	Horizontal
7	4575.1	50.69	32.15	-46.23	36.61	54.00	17.39	Horizontal
8	8403.5	49.17	37.14	-41.64	44.67	74.00	29.33	Horizontal
9	17990.225	43.52	43.05	-31.18	55.39	74.00	18.61	Horizontal

OFDM_200kHz_TX_CH_576_Vertical



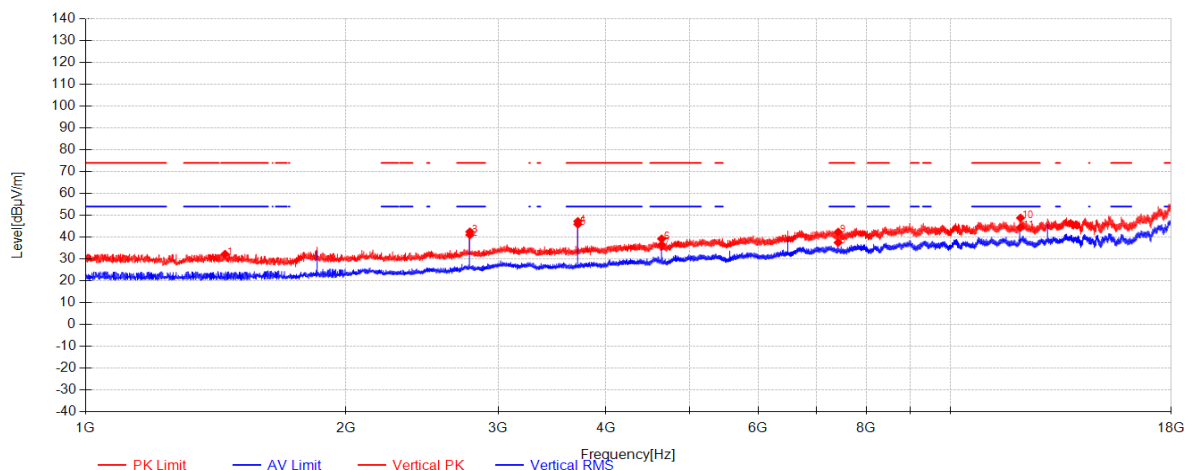
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1511.7	54.58	25.83	-48.53	31.88	74.00	42.12	Vertical
2	2745.05	60.00	28.68	-47.25	41.43	74.00	32.57	Vertical
3	2745.475	57.51	28.68	-47.24	38.95	54.00	15.05	Vertical
4	3660.075	66.68	29.74	-46.58	49.84	74.00	24.16	Vertical
5	3660.5	65.59	29.74	-46.58	48.75	54.00	5.25	Vertical
6	4575.1	53.42	32.15	-46.23	39.34	74.00	34.66	Vertical
7	4575.525	50.78	32.15	-46.23	36.70	54.00	17.30	Vertical
8	11894.45	49.25	38.80	-38.23	49.82	74.00	24.18	Vertical
9	11895.725	45.97	38.80	-38.24	46.53	54.00	7.47	Vertical
10	17996.6	43.63	43.08	-31.09	55.62	74.00	18.38	Vertical

OFDM_200kHz_TX_CH_640_Horizontal



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1451.35	53.69	26.39	-48.59	31.48	74.00	42.52	Horizontal
2	2783.3	55.89	28.70	-47.01	37.58	74.00	36.42	Horizontal
3	2783.725	53.55	28.70	-47.00	35.25	54.00	18.75	Horizontal
4	4639.275	48.27	31.84	-46.31	33.80	54.00	20.20	Horizontal
5	4676.675	52.04	31.80	-46.60	37.24	74.00	36.76	Horizontal
6	7687.375	50.08	36.62	-43.45	43.25	74.00	30.75	Horizontal
7	12061.475	42.56	38.92	-37.42	44.06	54.00	9.94	Horizontal
8	12120.975	46.53	39.04	-36.90	48.67	74.00	25.33	Horizontal
9	17896.3	45.31	42.57	-32.54	55.35	74.00	18.65	Horizontal

OFDM_200kHz_TX_CH_640_Vertical



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1450.5	54.41	26.40	-48.59	32.21	74.00	41.79	Vertical
2	2783.725	59.33	28.70	-47.00	41.03	54.00	12.97	Vertical
3	2783.725	60.76	28.70	-47.00	42.46	74.00	31.54	Vertical
4	3711.075	63.79	30.01	-46.57	47.23	74.00	26.77	Vertical
5	3711.5	62.46	30.02	-46.57	45.90	54.00	8.10	Vertical
6	4639.275	53.69	31.84	-46.31	39.22	74.00	34.78	Vertical
7	4639.275	50.97	31.84	-46.31	36.50	54.00	17.50	Vertical
8	7422.6	45.49	36.54	-44.49	37.54	54.00	16.46	Vertical
9	7422.6	50.29	36.54	-44.49	42.34	74.00	31.66	Vertical
10	12061.475	47.32	38.92	-37.42	48.82	74.00	25.18	Vertical
11	12061.9	42.95	38.92	-37.41	44.46	54.00	9.54	Vertical

7.3 Maximum Conducted Output Power

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

Test Method: ANSI C63.10 (2020) Section 7.8.5

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

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 21 °C

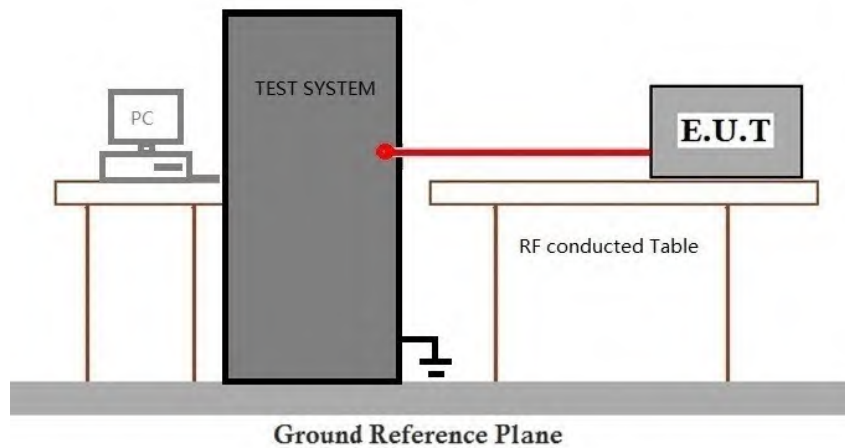
Humidity: 43 % RH

Atmospheric Pressure: 1001 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with FSK modulation.
Final test	03	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with OFDM modulation.

7.3.3 Test Setup Diagram



7.3.4 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

7.4 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247(a)(1)

Test Method: ANSI C63.10 (2020) Section 6.9.2

Limit:

20 dB bandwidth of the hopping channel	Hopping frequencies	Average time of occupancy
less than 250 kHz	least 50 hopping frequencies	shall not be greater than 0.4 seconds within a 20 second period
250 kHz to 500kHz	least 25 hopping frequencies	shall not be greater than 0.4 seconds within a 10 second period.

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 21 °C

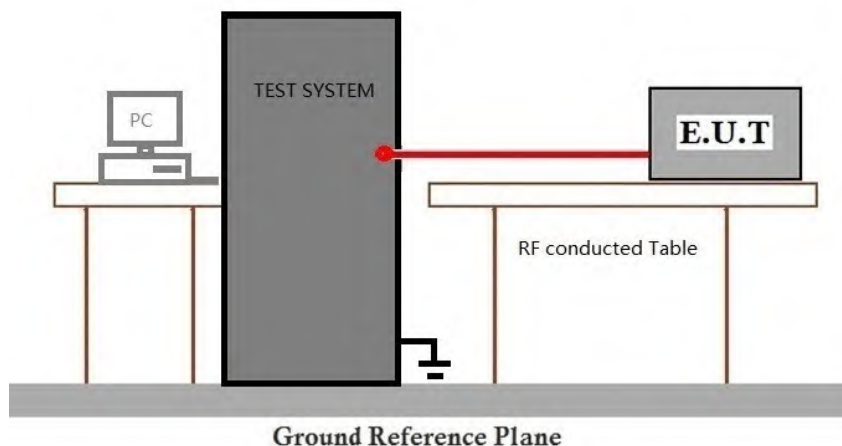
Humidity: 43 % RH

Atmospheric Pressure: 1001 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with FSK modulation.
Final test	03	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with OFDM modulation.

7.4.3 Test Setup Diagram





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7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.5 Carrier Frequencies Separation

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)

Test Method: ANSI C63.10 (2020) Section 7.8.2

Limit:

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

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 21 °C

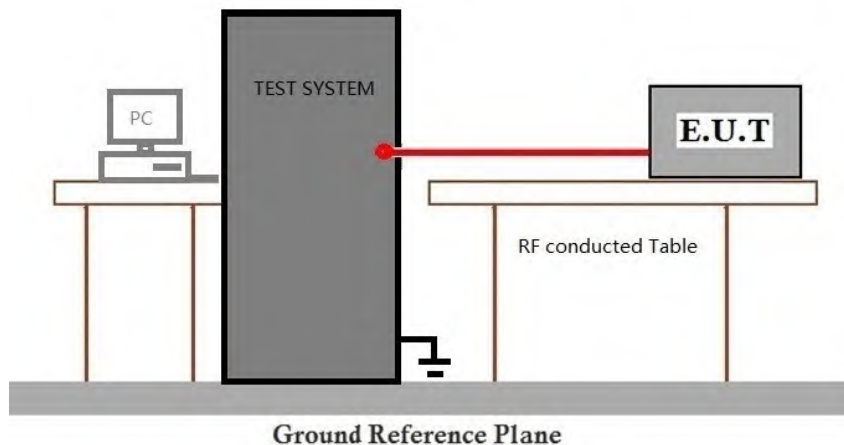
Humidity: 43 % RH

Atmospheric Pressure: 1001 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_Hop mode_Keep the EUT in frequency hopping mode with FSK modulation.
Final test	02	TX_Hop mode_Keep the EUT in frequency hopping mode with OFDM modulation.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.6 Hopping Channel Number

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(i)

Test Method: ANSI C63.10 (2020) Section 7.8.3

Limit:

Frequency range(MHz)	Number of hopping channels (minimum)
902-928	50 for 20dB bandwidth <250kHz
	25 for 20dB bandwidth ≥250kHz
2400-2483.5	15
5725-5850	75

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 21 °C

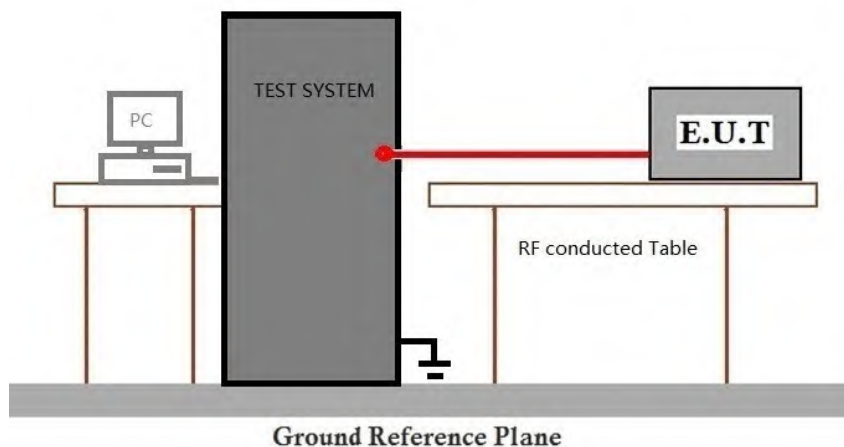
Humidity: 43 % RH

Atmospheric Pressure: 1001 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_Hop mode_Keep the EUT in frequency hopping mode with FSK modulation.
Final test	02	TX_Hop mode_Keep the EUT in frequency hopping mode with OFDM modulation.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.7 Dwell Time

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(i)

Test Method: ANSI C63.10 (2020) Section 7.8.4

Limit:

Frequency(MHz)	Limit
902-928	0.4S within a 20S period(20dB bandwidth<250kHz)
	0.4S within a 10S period(20dB bandwidth≥250kHz)
2400-2483.5	0.4S within a period of 0.4S multiplied by the number of hopping channels
5725-5850	0.4S within a 30S period

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 21 °C

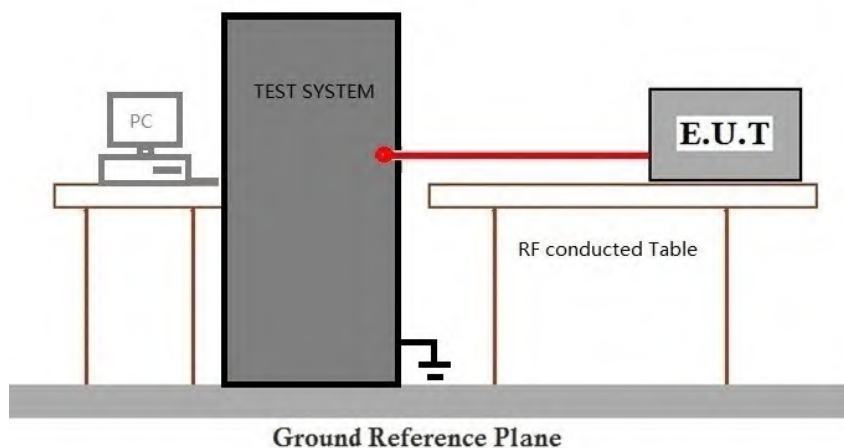
Humidity: 43 % RH

Atmospheric Pressure: 1001 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_Hop mode_Keep the EUT in frequency hopping mode with FSK modulation.
Final test	02	TX_Hop mode_Keep the EUT in frequency hopping mode with OFDM modulation.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data



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Please Refer to Appendix for Details

7.8 Conducted Band Edges Measurement

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

Test Method: ANSI C63.10 (2020) Section 7.8.7.2

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)).

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 21 °C

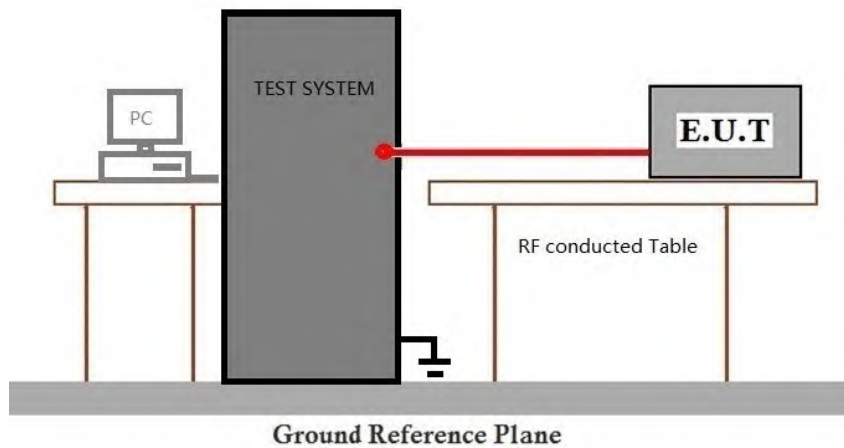
Humidity: 43 % RH

Atmospheric Pressure: 1001 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_Hop mode_Keep the EUT in frequency hopping mode with FSK modulation.
Final test	01	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with FSK modulation.
Final test	02	TX_Hop mode_Keep the EUT in frequency hopping mode with OFDM modulation.
Final test	03	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with OFDM modulation.

7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.9 Conducted Spurious Emissions

Test Requirement ANSI C63.10 (2020) Section 7.8.7

Test Method: ANSI C63.10 (2020) 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)).

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 21 °C

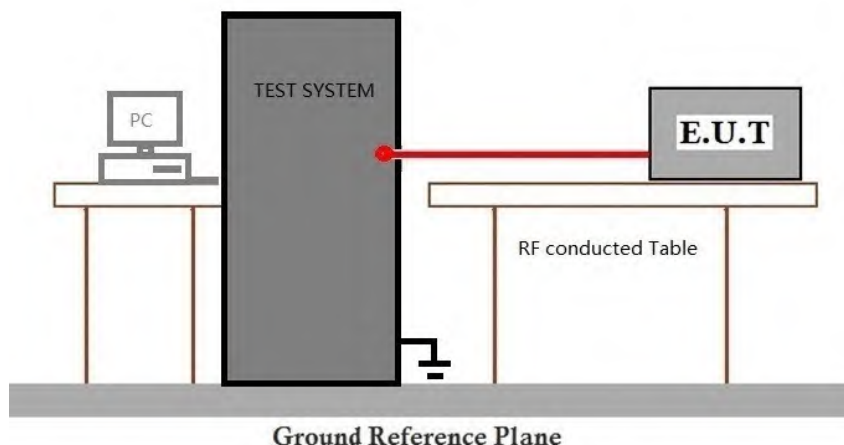
Humidity: 43 % RH

Atmospheric Pressure: 1001 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_Hop mode_Keep the EUT in frequency hopping mode with FSK modulation.
Final test	02	TX_Hop mode_Keep the EUT in frequency hopping mode with OFDM modulation.

7.9.3 Test Setup Diagram





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7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details

8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SUCR2603000220MO

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SUCR2603000220MO

10 Appendix

OFDM

1. Bandwidth

1.1 Test Result

1.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
400kHz	SISO	902.4	1	0.194	/	Pass
		914.8	1	0.196	/	Pass
		927.6	1	0.188	/	Pass
200kHz	SISO	902.2	1	0.109	/	Pass
		915	1	0.109	/	Pass
		927.8	1	0.109	/	Pass

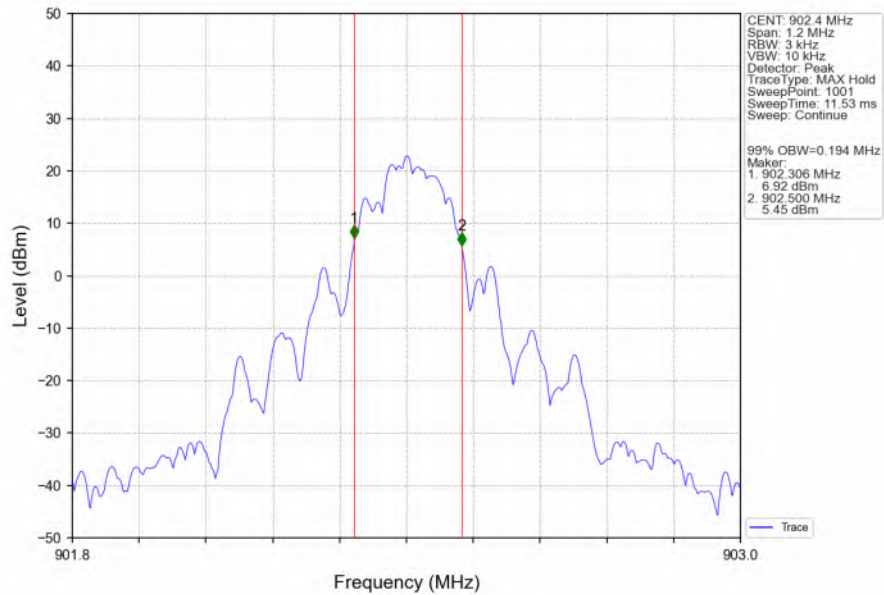
1.1.2 20dB BW

Mode	TX Type	Frequency (MHz)	ANT	20dB Bandwidth (MHz)		Verdict
				Result	Limit	
400kHz	SISO	902.4	1	0.200	/	Pass
		914.8	1	0.197	/	Pass
		927.6	1	0.203	/	Pass
200kHz	SISO	902.2	1	0.107	/	Pass
		915	1	0.107	/	Pass
		927.8	1	0.103	/	Pass

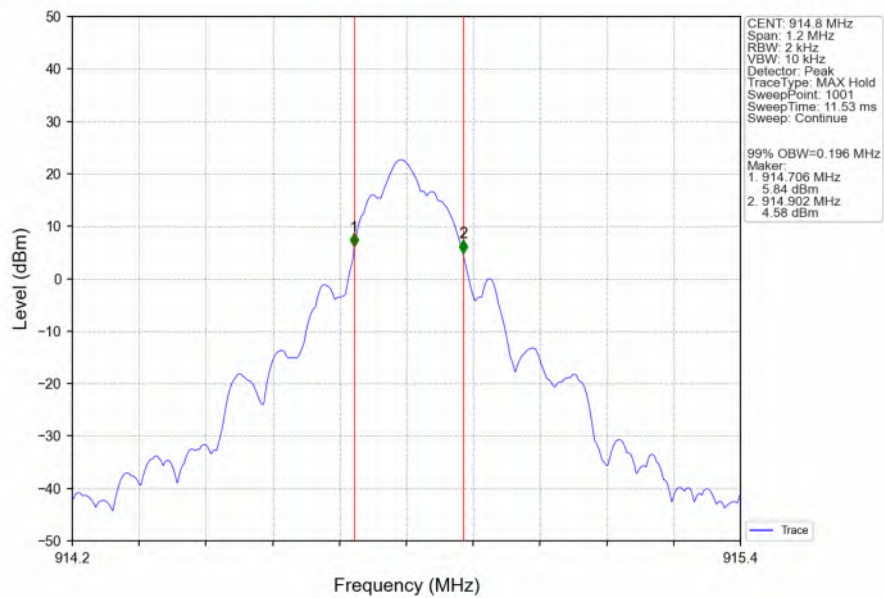
1.2 Test Graph

1.2.1 OBW

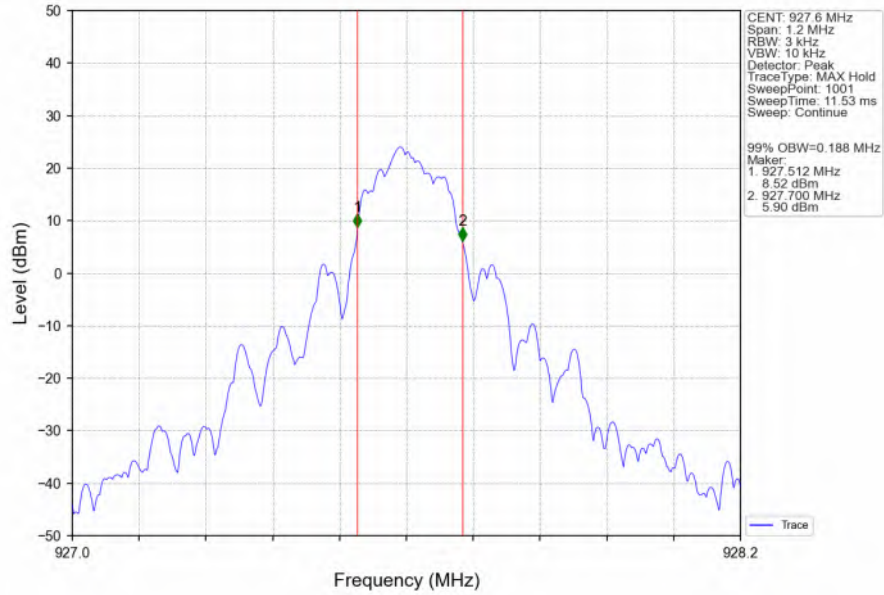
400kHz_LCH_902.4MHz_Ant1_NTNV



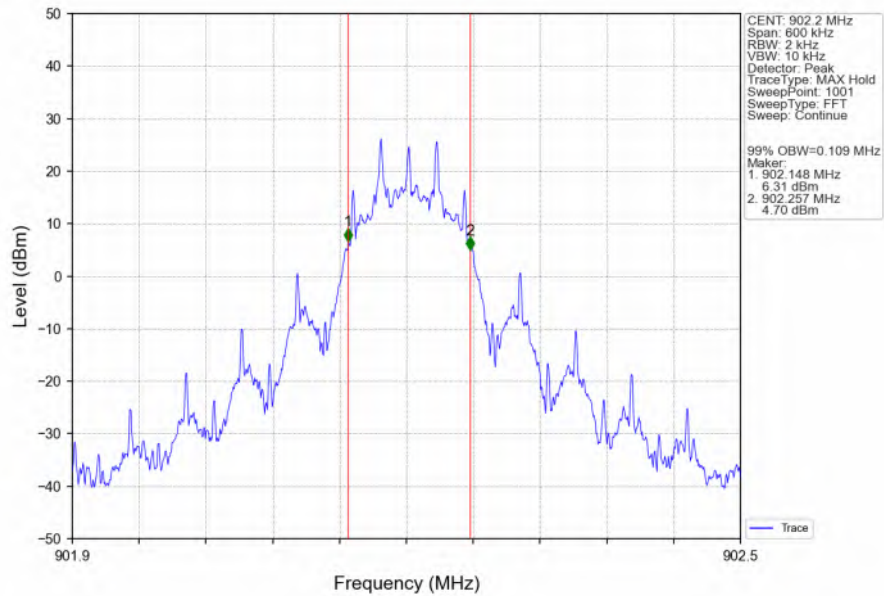
400kHz_MCH_914.8MHz_Ant1_NTNV



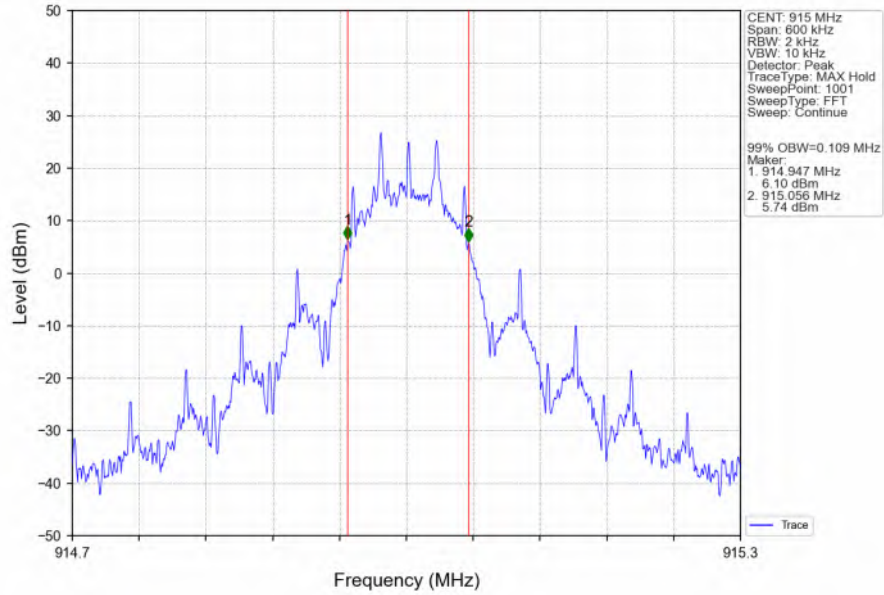
400kHz_HCH_927.6MHz_Ant1_NTNV



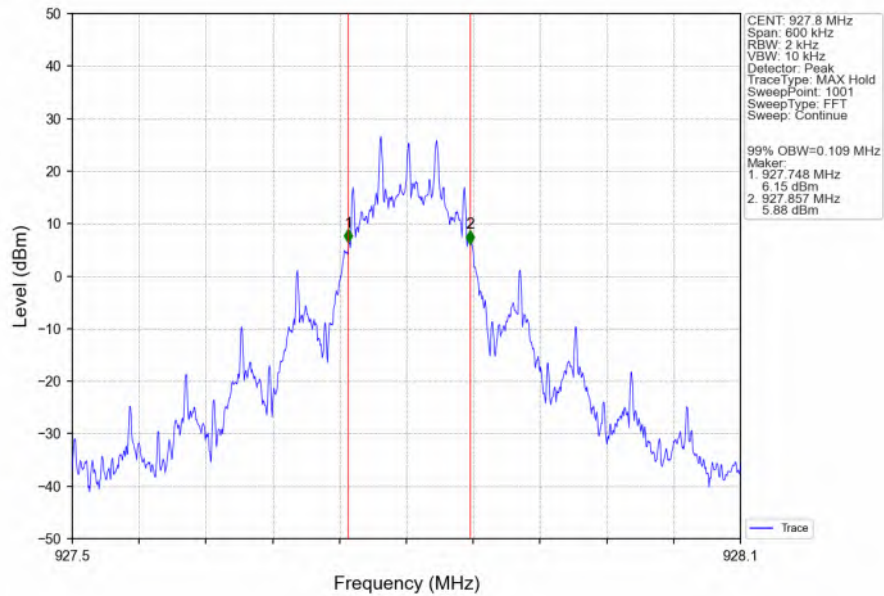
200kHz_LCH_902.2MHz_Ant1_NTNV



200kHz_MCH_915MHz_Ant1_NTNV

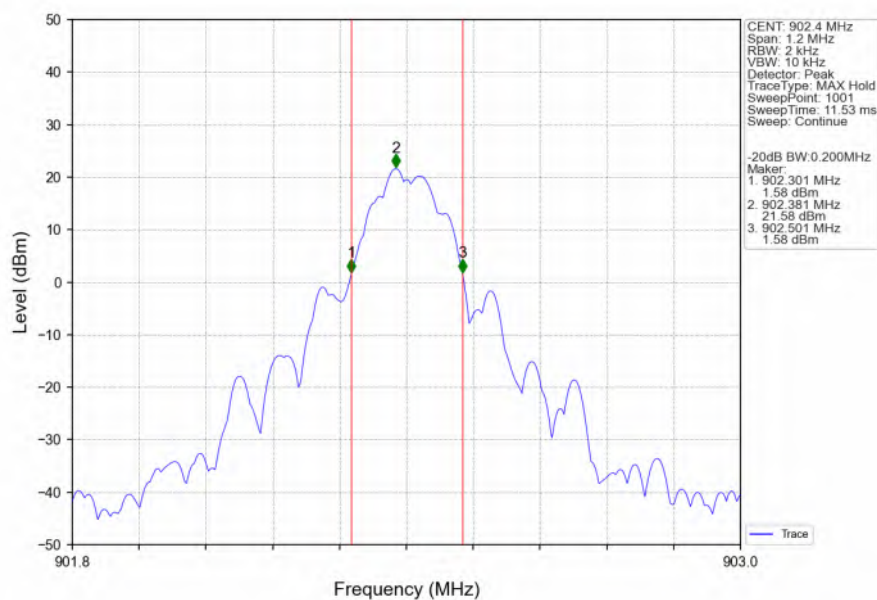


200kHz_HCH_927.8MHz_Ant1_NTNV

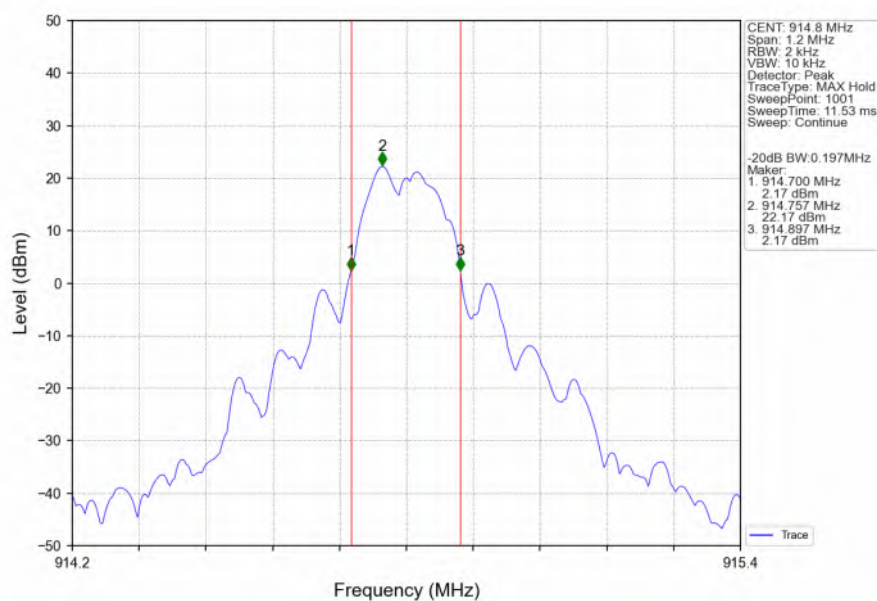


1.2.2 20dB BW

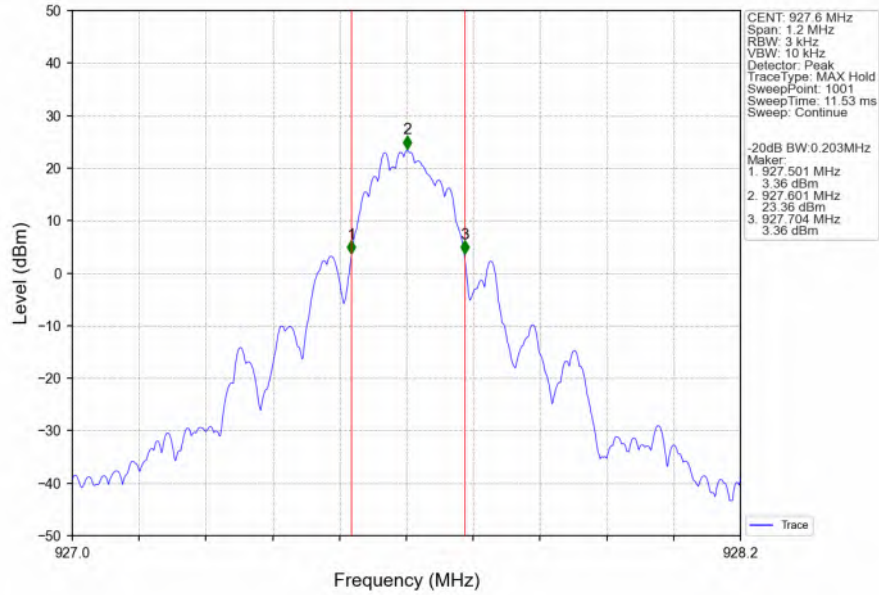
400kHz_LCH_902.4MHz_Ant1_NTNV



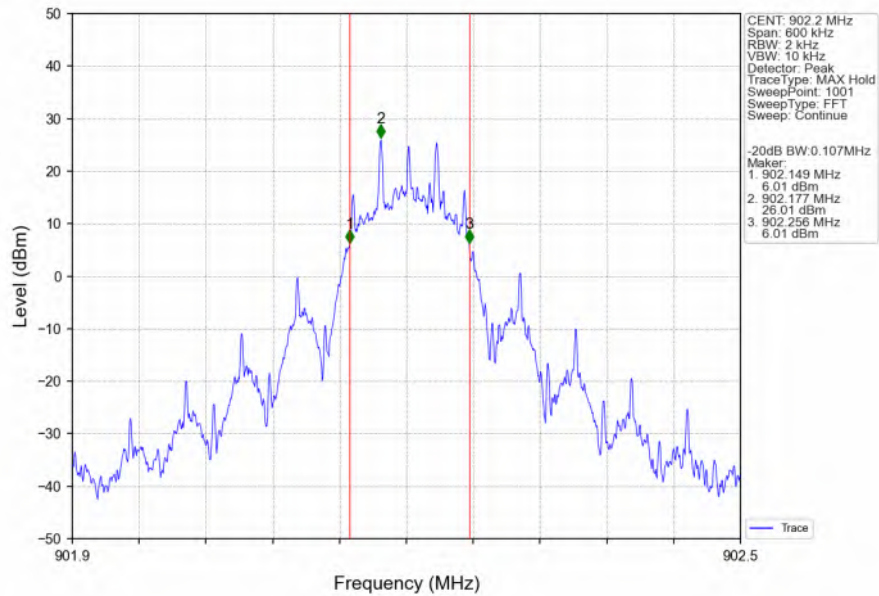
400kHz_MCH_914.8MHz_Ant1_NTNV



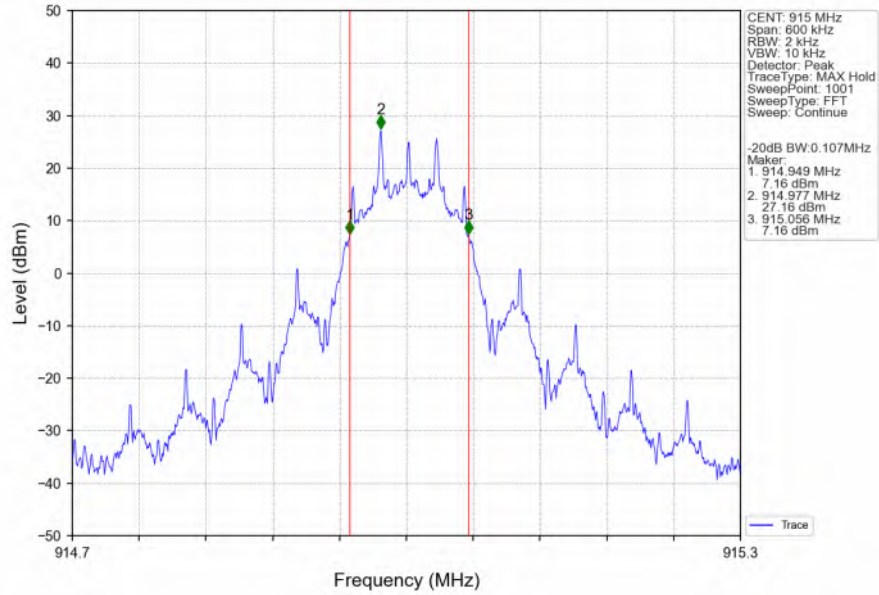
400kHz_HCH_927.6MHz_Ant1_NTNV



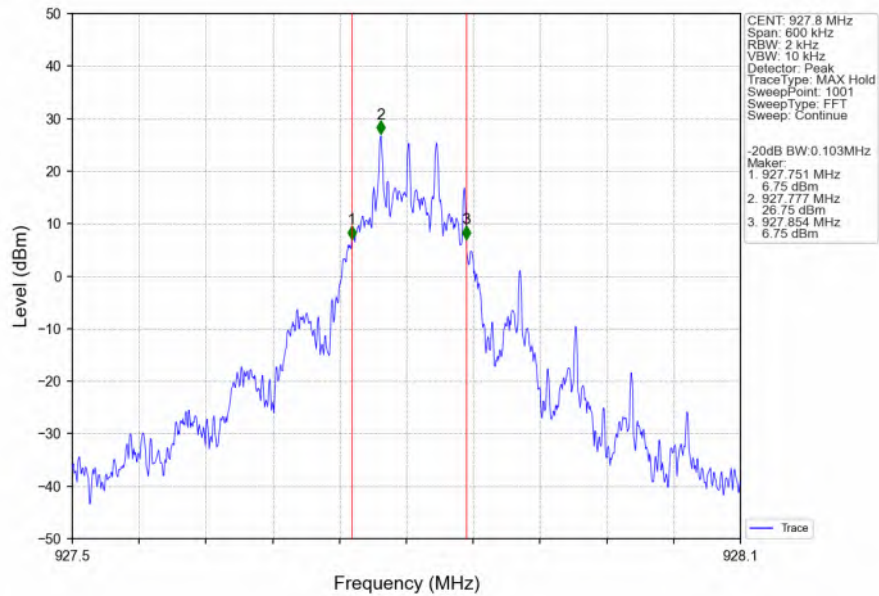
200kHz_LCH_902.2MHz_Ant1_NTNV



200kHz_MCH_915MHz_Ant1_NTNV



200kHz_HCH_927.8MHz_Ant1_NTNV





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2. Maximum Conducted Output Power

2.1 Test Result

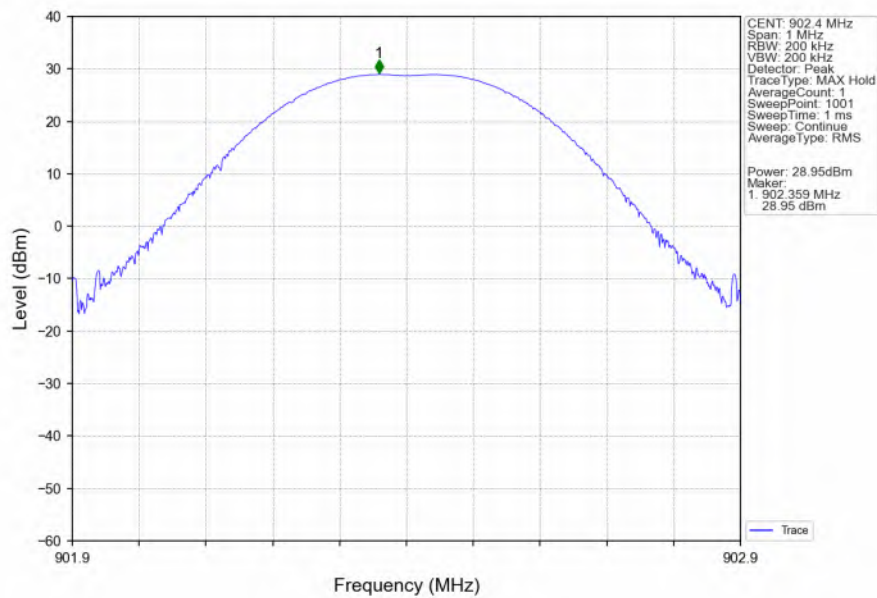
2.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
400kHz	SISO	902.4	28.95	<=30	Pass
		914.8	29.19	<=30	Pass
		927.6	29.61	<=30	Pass
200kHz	SISO	902.2	29.14	<=30	Pass
		915	29.27	<=30	Pass
		927.8	29.69	<=30	Pass
Note1: Antenna Gain: Ant1: 1.10dBi;					

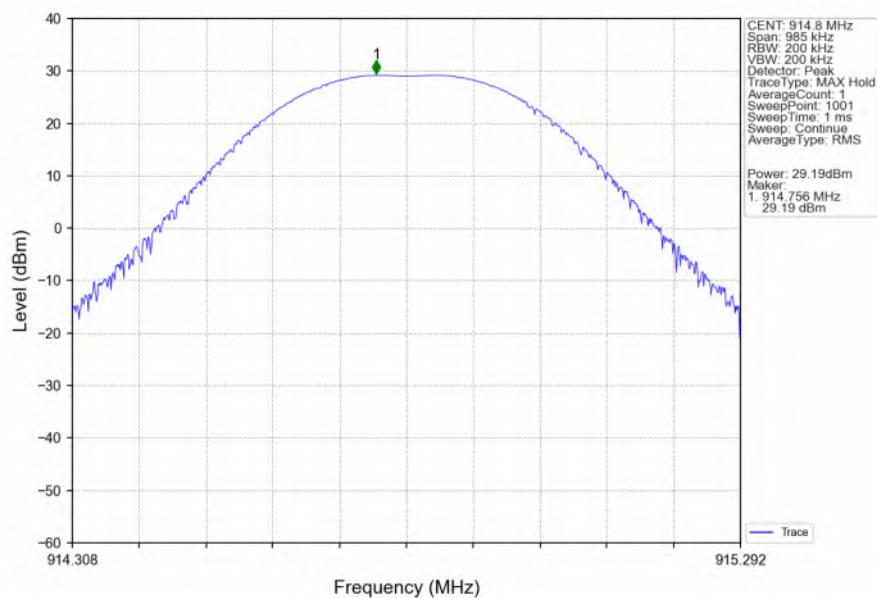
2.2 Test Graph

2.2.1 Power

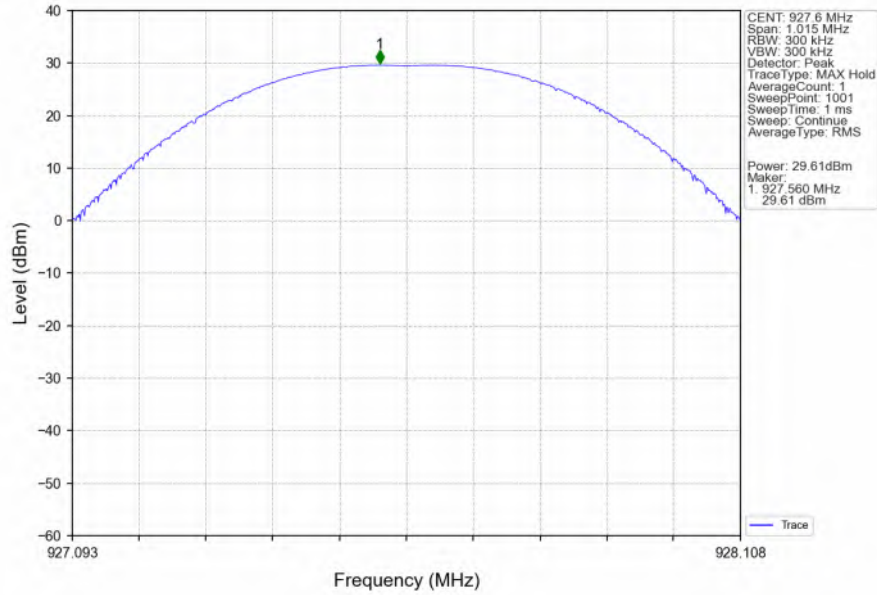
400kHz_LCH_902.4MHz_Ant1_NTNV



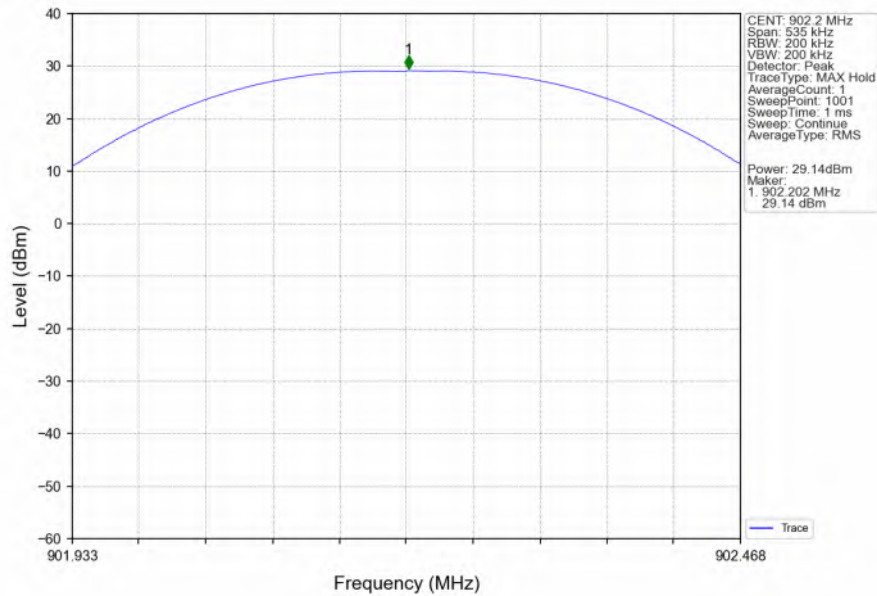
400kHz_MCH_914.8MHz_Ant1_NTNV



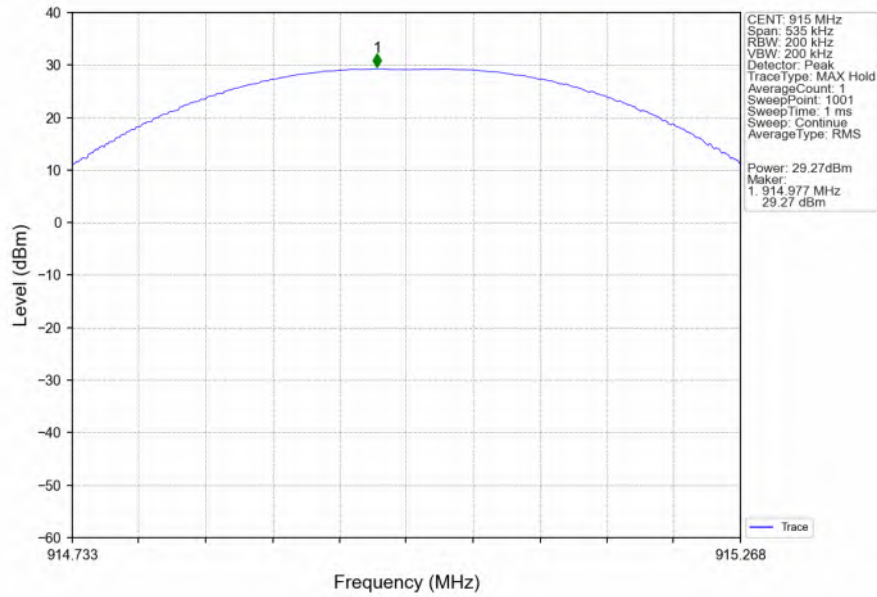
400kHz_HCH_927.6MHz_Ant1_NTNV



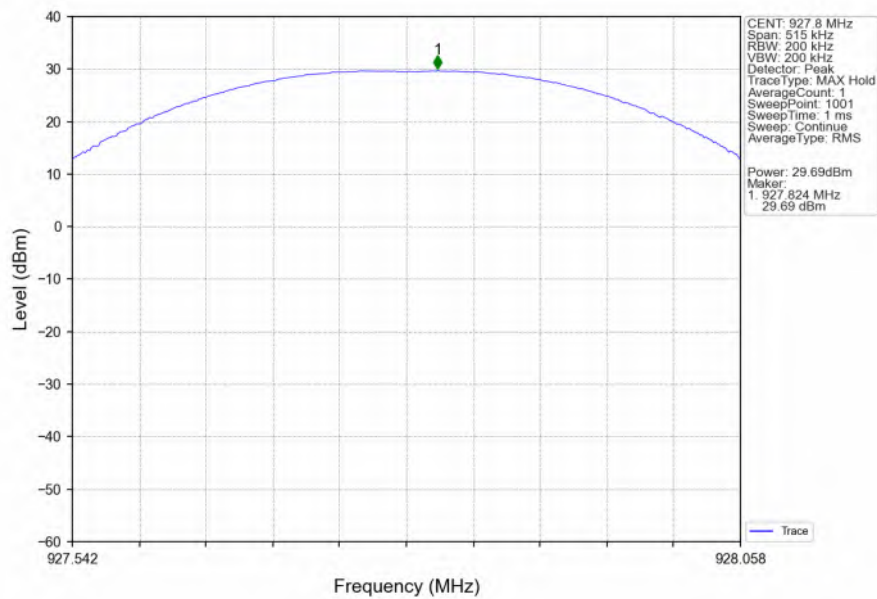
200kHz_LCH_902.2MHz_Ant1_NTNV



200kHz_MCH_915MHz_Ant1_NTNV



200kHz_HCH_927.8MHz_Ant1_NTNV



3. Carrier Frequency Separation

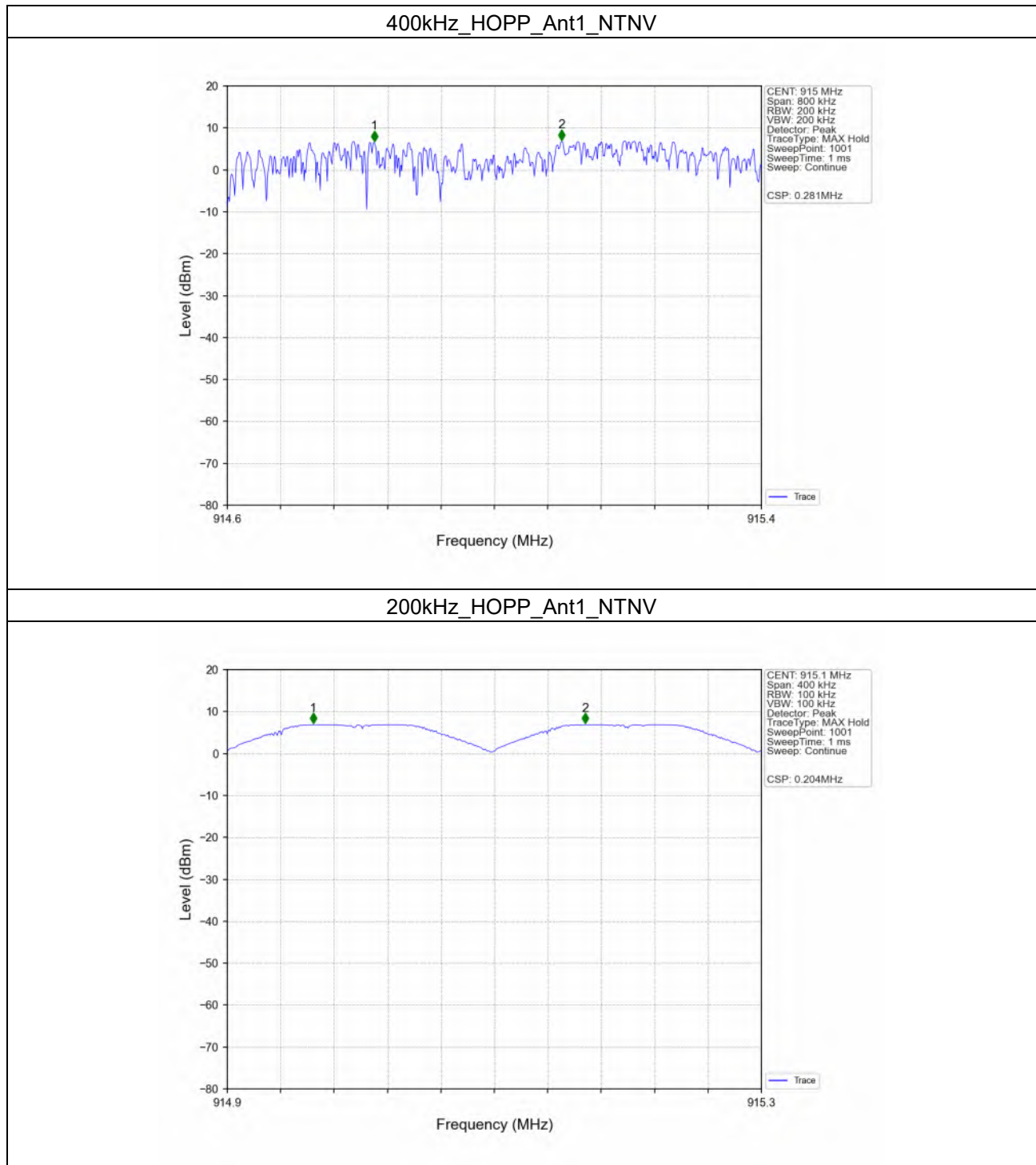
3.1 Test Result

3.1.1 Ant1

Ant1						
Mode	TX Type	Frequency (MHz)	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
400kHz	SISO	HOPP	0.281	0.203	≥ 0.203	Pass
200kHz	SISO	HOPP	0.204	0.107	≥ 0.107	Pass

3.2 Test Graph

3.2.1 Ant1





4. Number of Hopping Frequencies

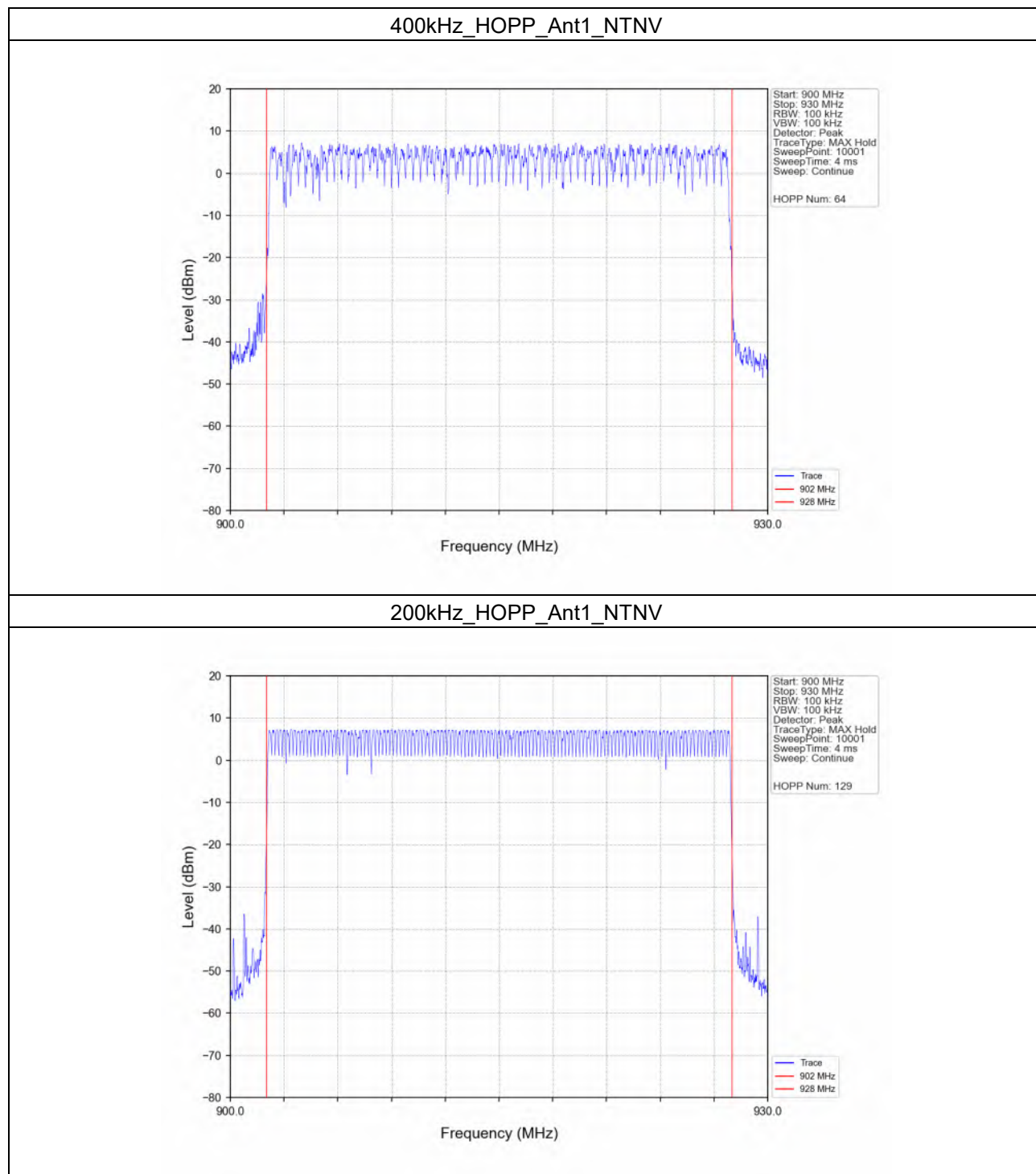
4.1 Test Result

4.1.1 HoppNum

Mode	TX Type	Frequency (MHz)	Num of Hopping Frequencies		Verdict
			ANT1	Limit	
400kHz	SISO	HOPP	64	>=50	Pass
200kHz	SISO	HOPP	129	>=50	Pass

4.2 Test Graph

4.2.1 HoppNum



5. Time of Occupancy (Dwell Time)

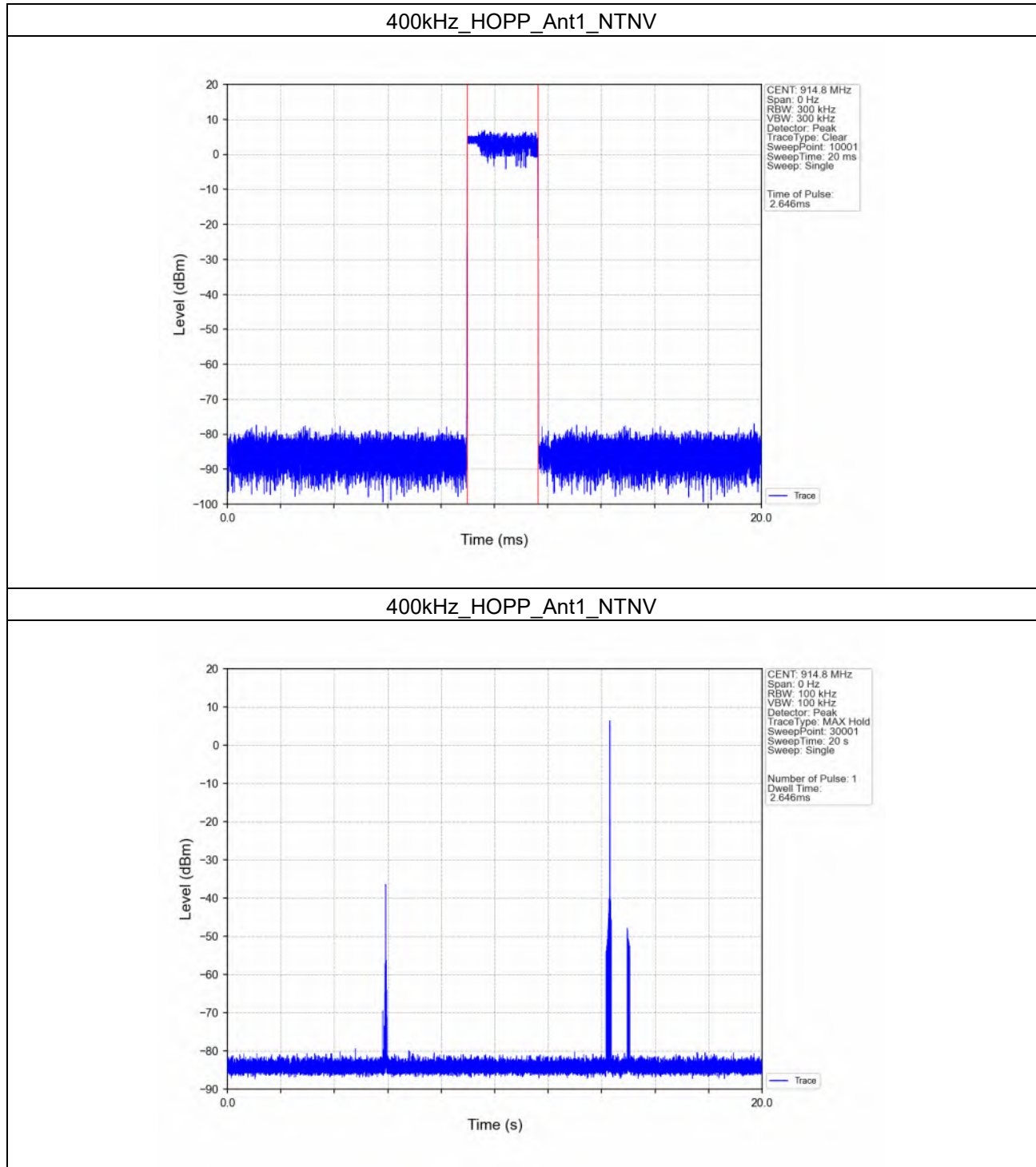
5.1 Test Result

5.1.1 Ant1

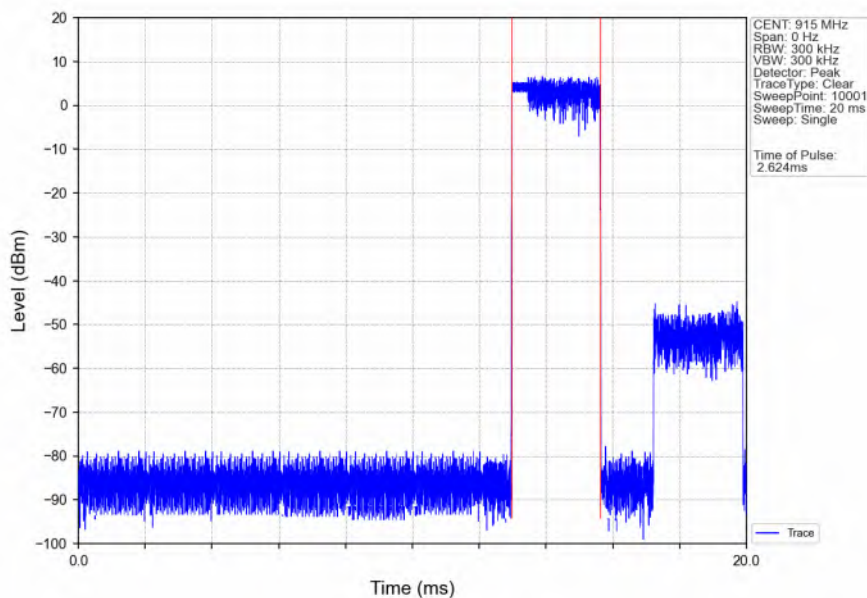
Ant1								
Mode	TX Type	Frequency (MHz)	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
400kHz	SISO	HOPP	2.646	20.000	1	2.646	<=400	Pass
200kHz	SISO	HOPP	15.024	20.000	1	15.024	<=400	Pass

5.2 Test Graph

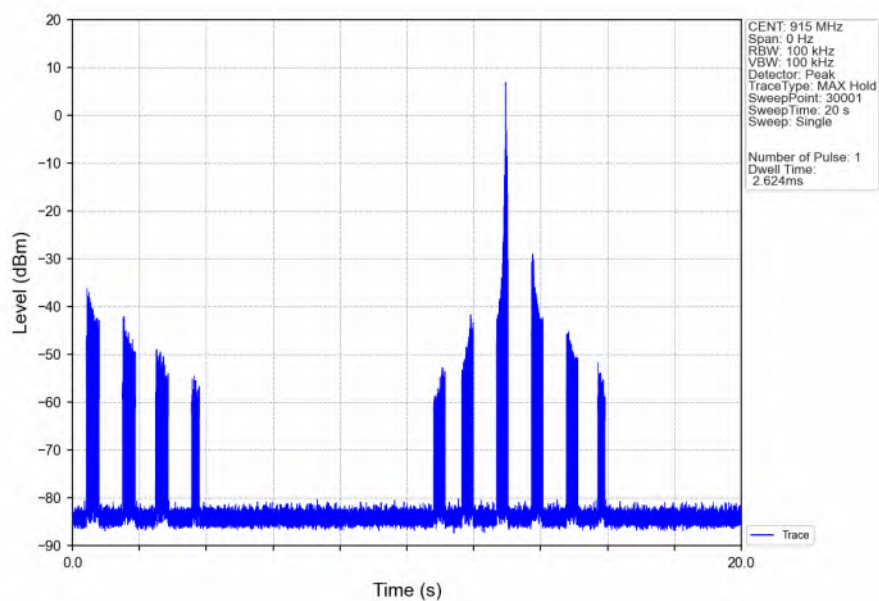
5.2.1 Ant1



200kHz_HOPP_Ant1_NTNV



200kHz_HOPP_Ant1_NTNV



6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Test Result

6.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
400kHz	SISO	902.4	1	29.04
		914.8	1	29.23
		927.6	1	29.64
200kHz	SISO	902.2	1	29.06
		915	1	29.39
		927.8	1	29.45

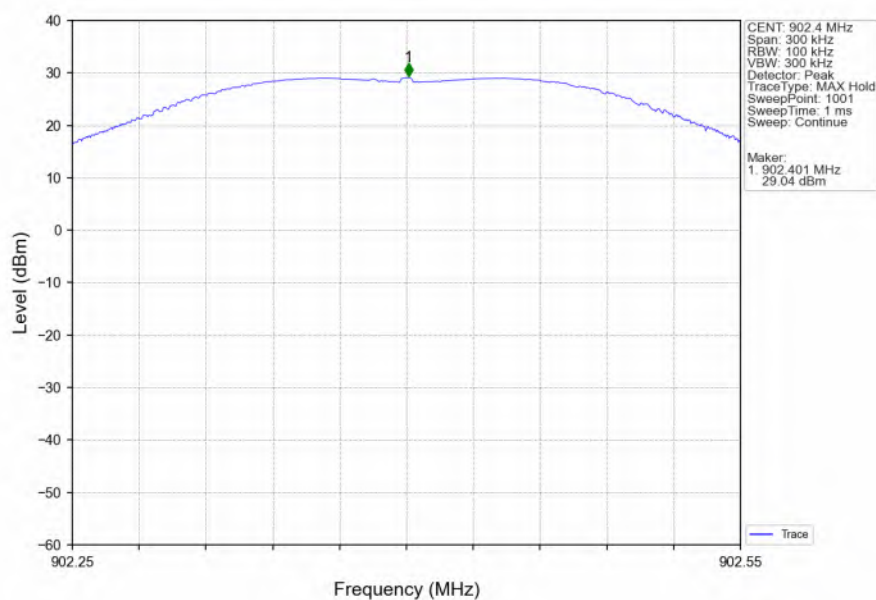
6.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
400kHz	SISO	902.4	1	29.64	9.64	Pass
		914.8	1	29.64	9.64	Pass
		927.6	1	29.64	9.64	Pass
		HOPP	1	29.64	9.64	Pass
				29.64	9.64	Pass
200kHz	SISO	902.2	1	29.45	9.45	Pass
		915	1	29.45	9.45	Pass
		927.8	1	29.45	9.45	Pass
		HOPP	1	29.45	9.45	Pass
				29.45	9.45	Pass

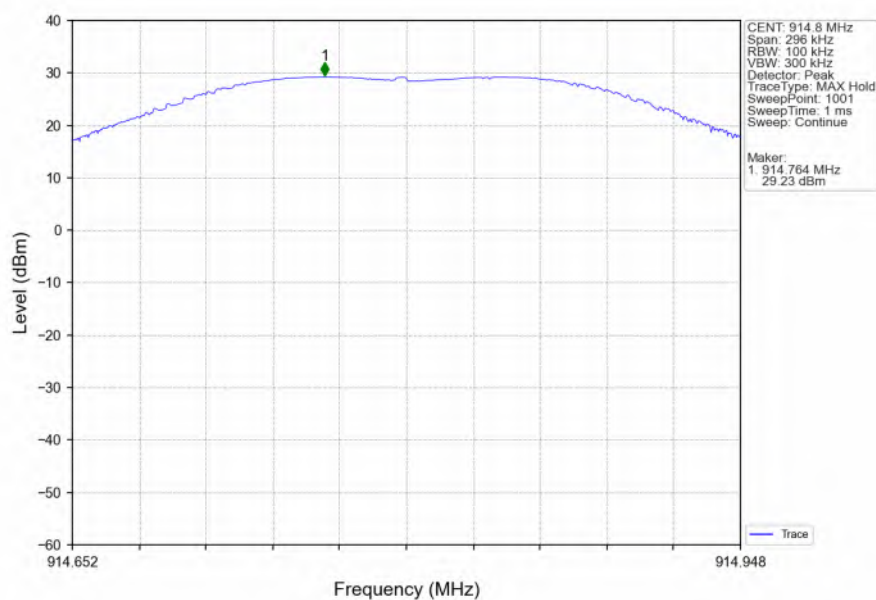
6.2 Test Graph

6.2.1 Ref

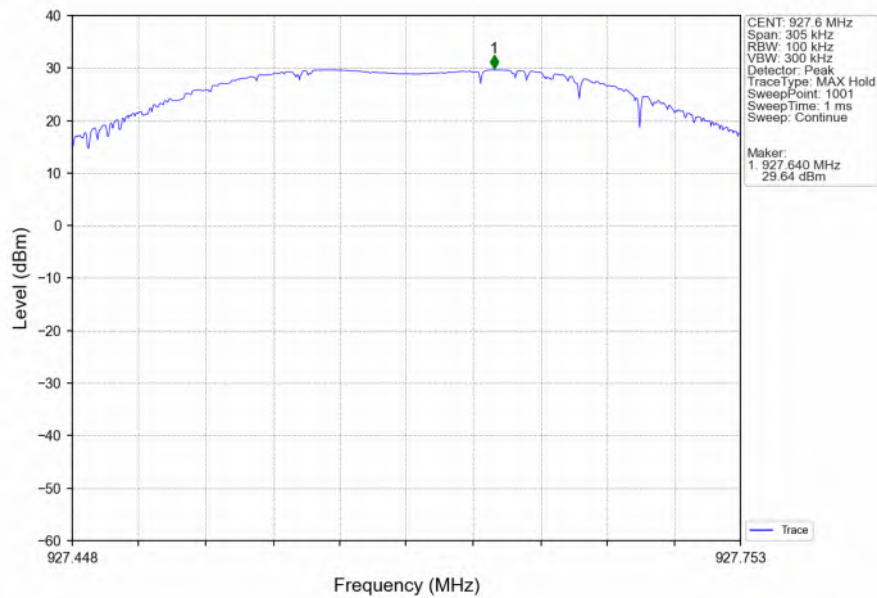
400kHz_LCH_902.4MHz_Ant1_NTNV



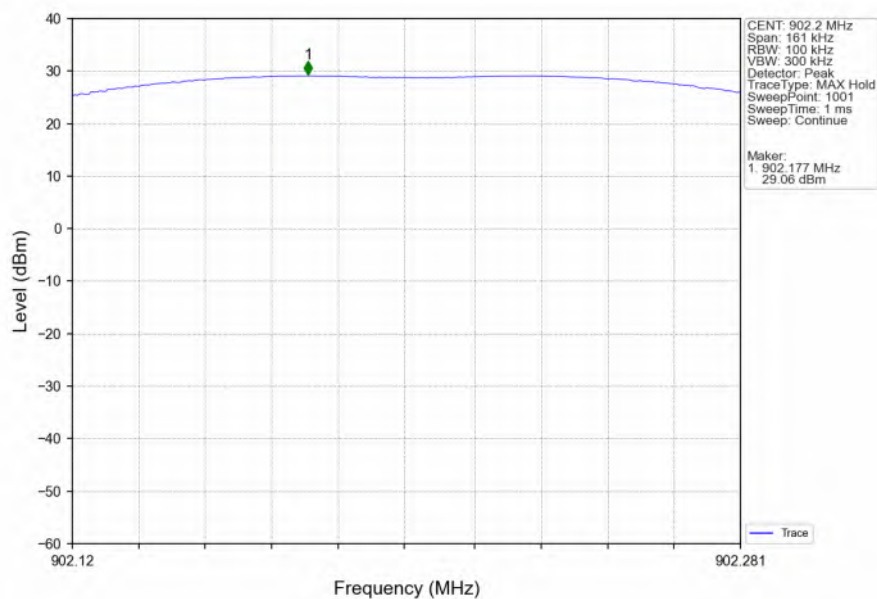
400kHz_MCH_914.8MHz_Ant1_NTNV



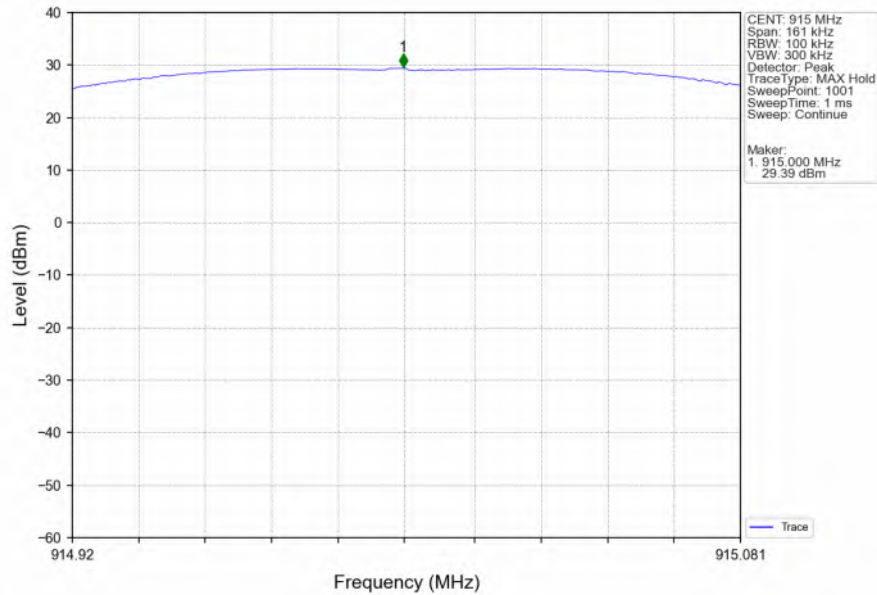
400kHz_HCH_927.6MHz_Ant1_NTNV



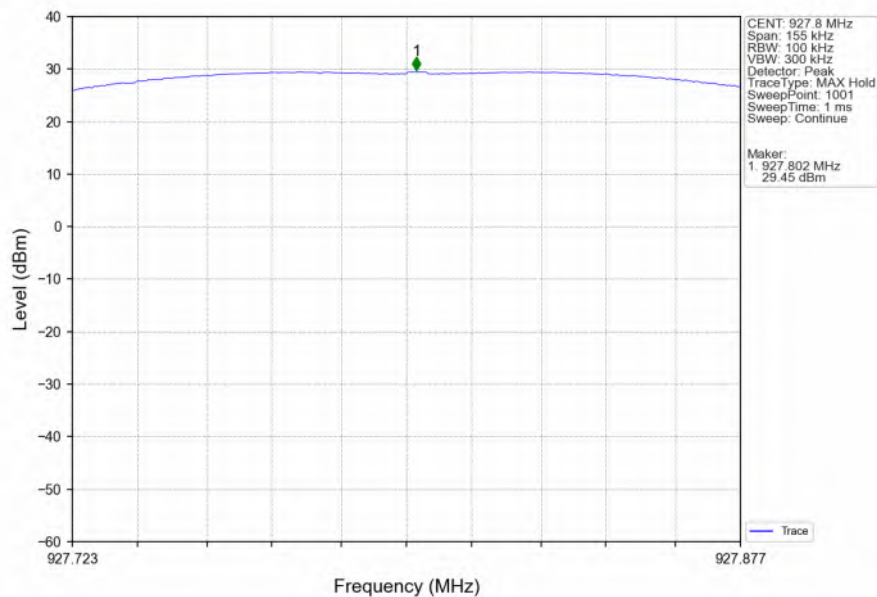
200kHz_LCH_902.2MHz_Ant1_NTNV



200kHz_MCH_915MHz_Ant1_NTNV

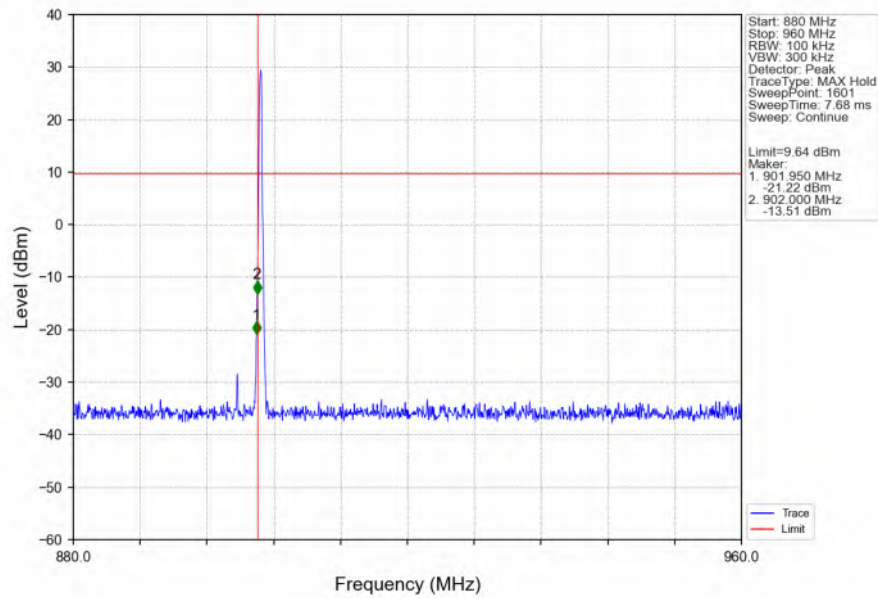


200kHz_HCH_927.8MHz_Ant1_NTNV

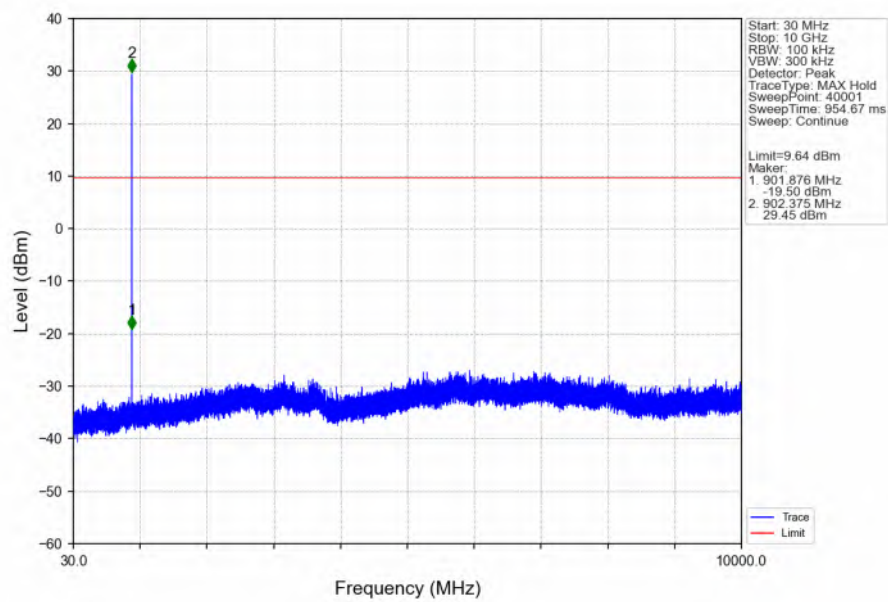


6.2.2 CSE

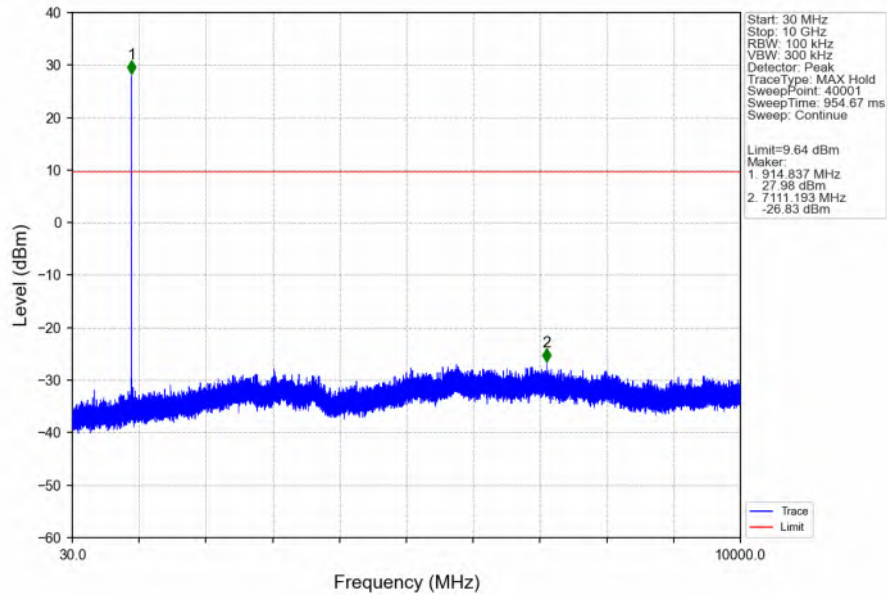
400K_LCH_902.4MHz_Ant1_NTNV



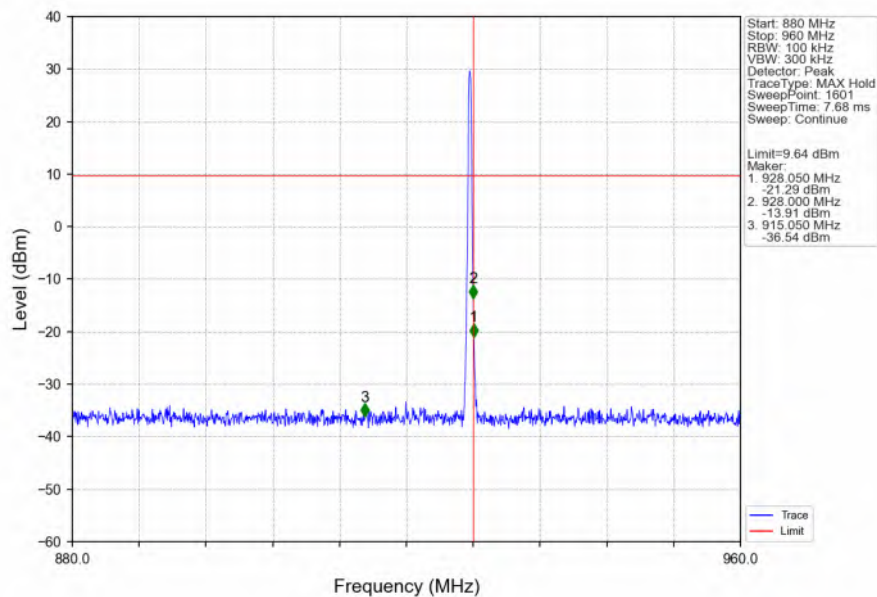
400K_LCH_902.4MHz_Ant1_NTNV



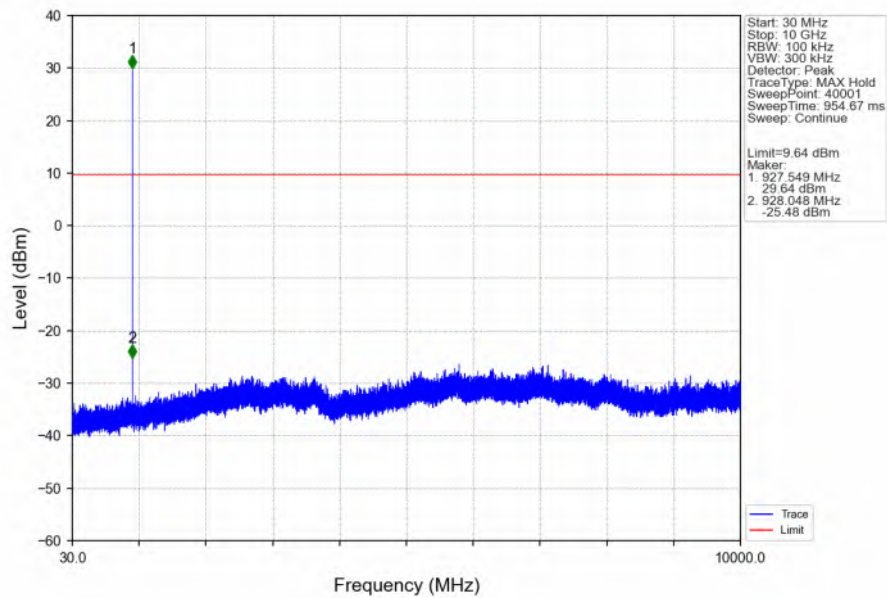
400K_MCH_914.8MHz_Ant1_NTNV



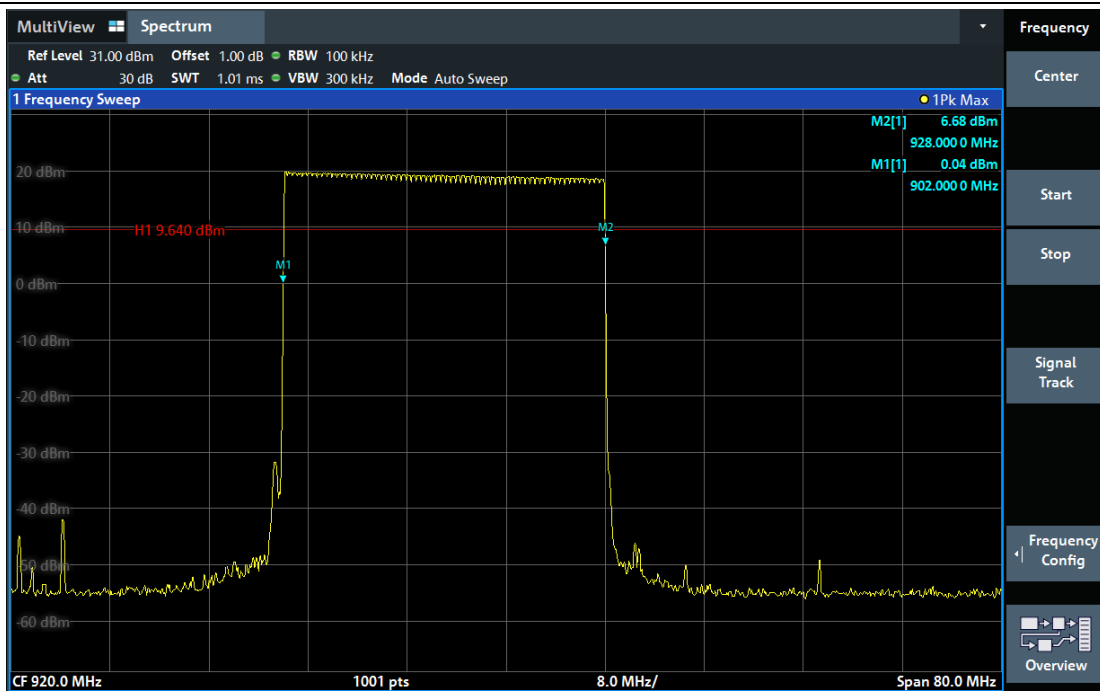
400K_HCH_927.6MHz_Ant1_NTNV



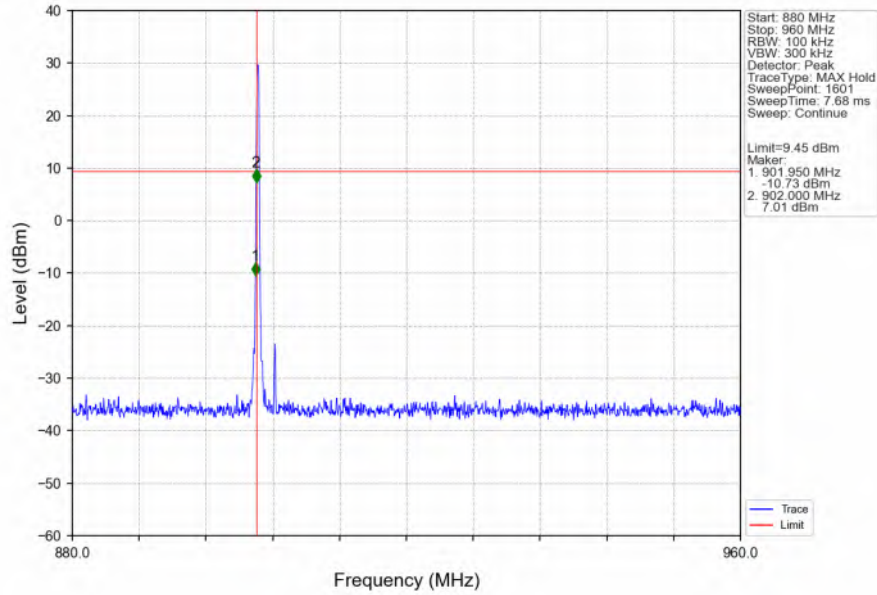
400K_HCH_927.6MHz_Ant1_NTNV



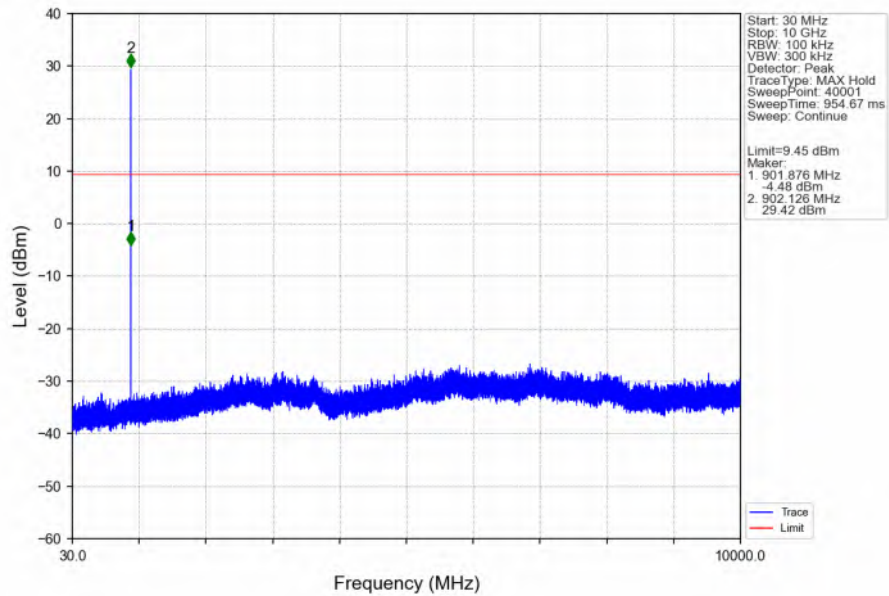
400kHz_HOPP_Ant1_NTNV



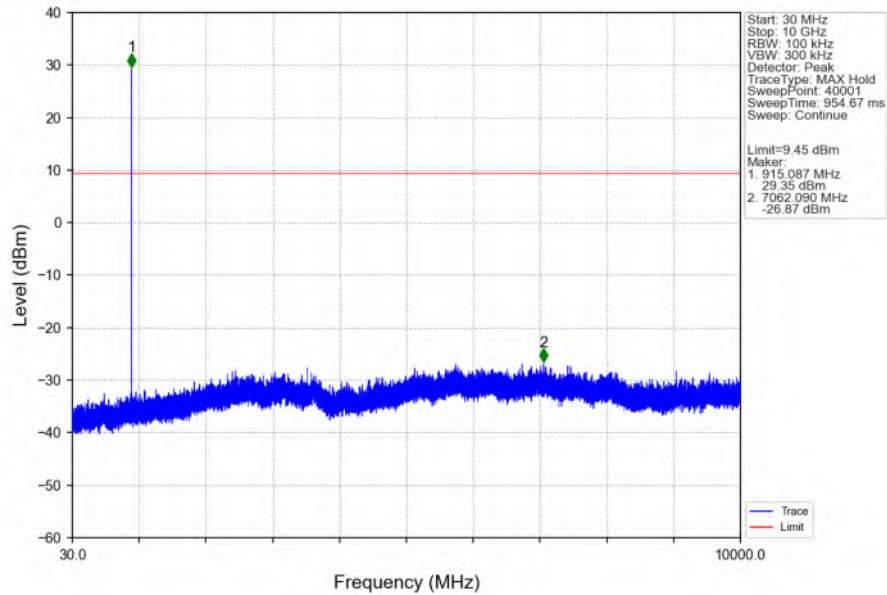
200K_LCH_902.2MHz_Ant1_NTNV



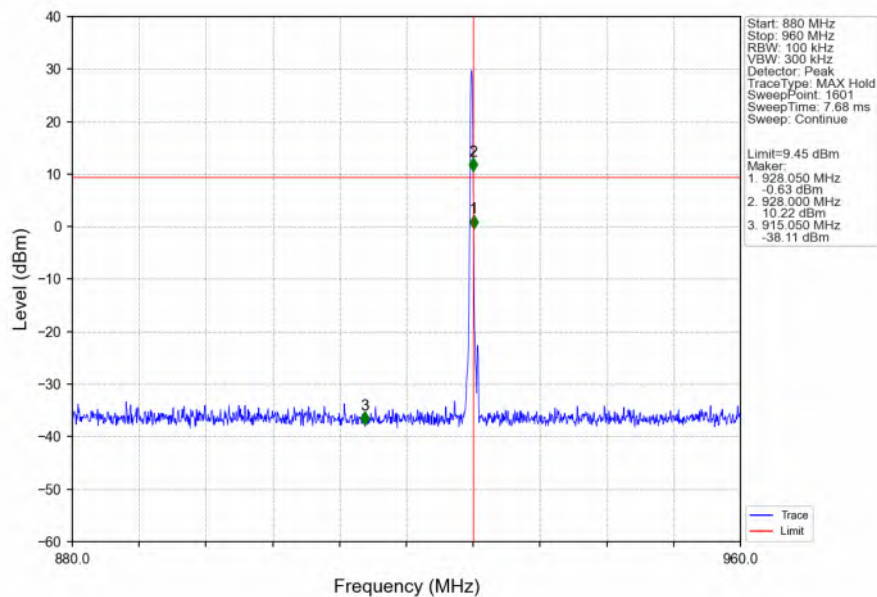
200K_LCH_902.2MHz_Ant1_NTNV



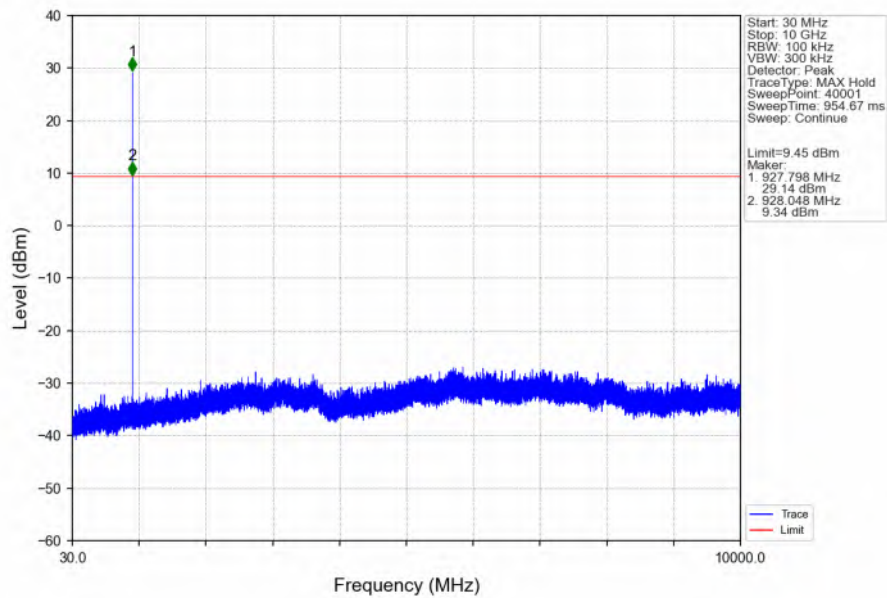
200K_MCH_915MHz_Ant1_NTNV



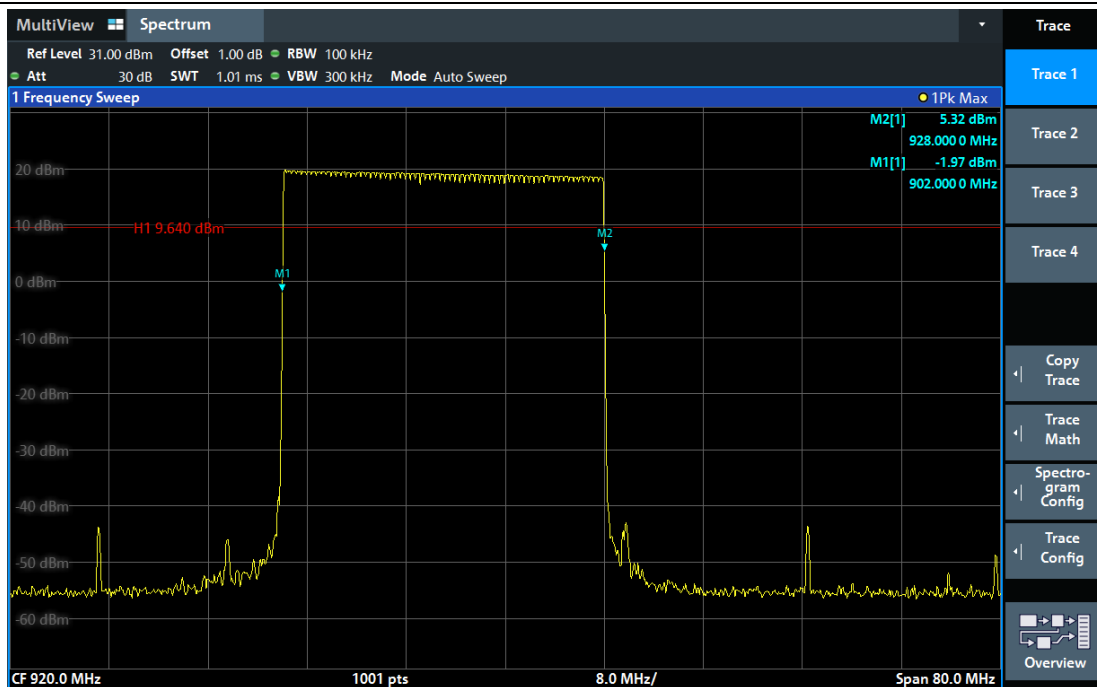
200K_HCH_927.8MHz_Ant1_NTNV



200K_HCH_927.8MHz_Ant1_NTNV



200kHz_HOPP_Ant1_NTNV



FSK

1. Bandwidth

1.1 Test Result

1.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
400kHz	SISO	902.4	1	0.200	/	Pass
		914.8	1	0.192	/	Pass
		927.6	1	0.192	/	Pass
200kHz	SISO	902.2	1	0.109	/	Pass
		915	1	0.109	/	Pass
		927.8	1	0.110	/	Pass

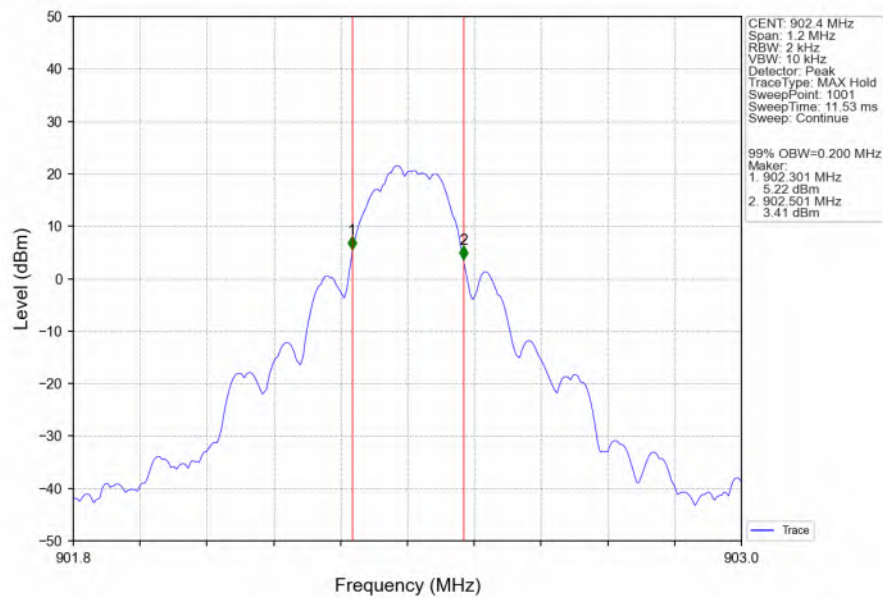
1.1.2 20dB BW

Mode	TX Type	Frequency (MHz)	ANT	20dB Bandwidth (MHz)		Verdict
				Result	Limit	
400kHz	SISO	902.4	1	0.179	/	Pass
		914.8	1	0.200	/	Pass
		927.6	1	0.202	/	Pass
200kHz	SISO	902.2	1	0.109	/	Pass
		915	1	0.104	/	Pass
		927.8	1	0.106	/	Pass

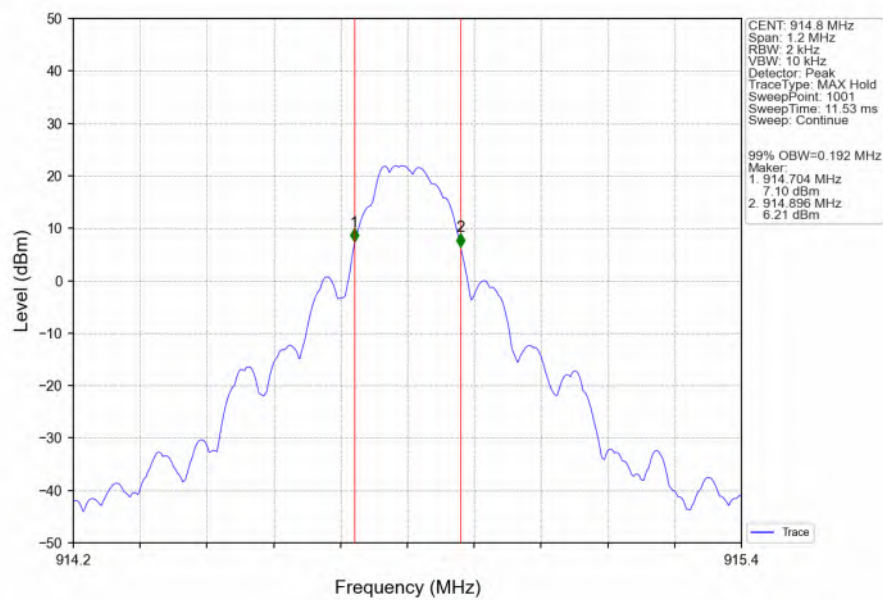
1.2 Test Graph

1.2.1 OBW

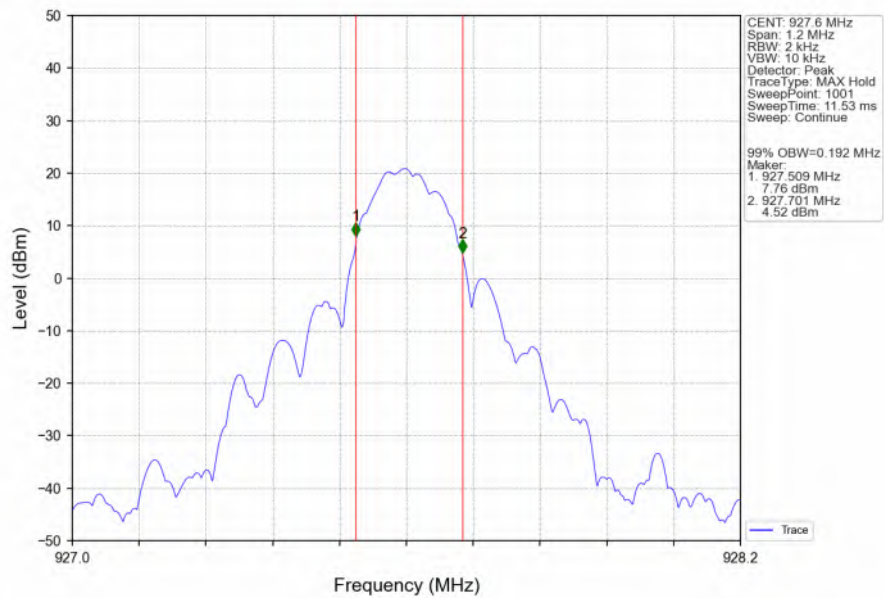
400kHz_LCH_902.4MHz_Ant1_NTNV



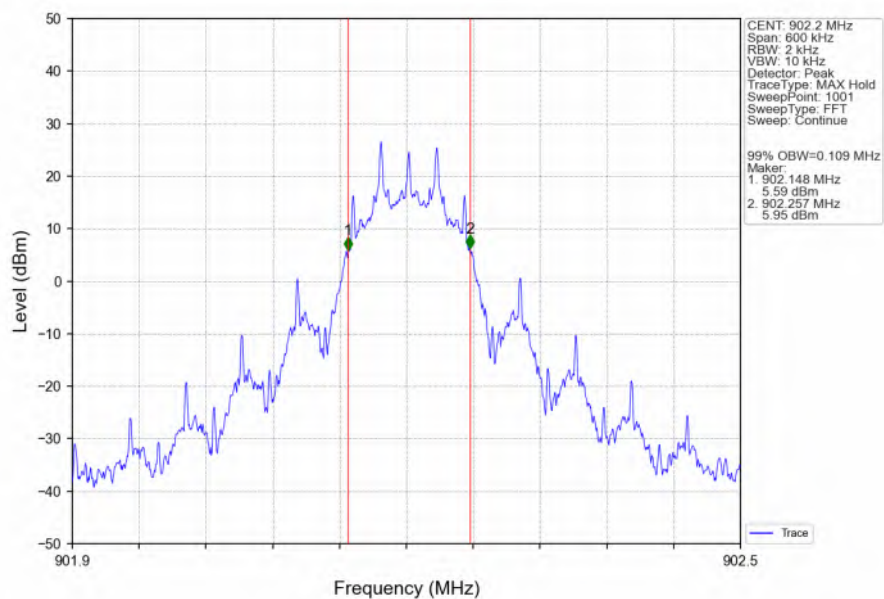
400kHz_MCH_914.8MHz_Ant1_NTNV



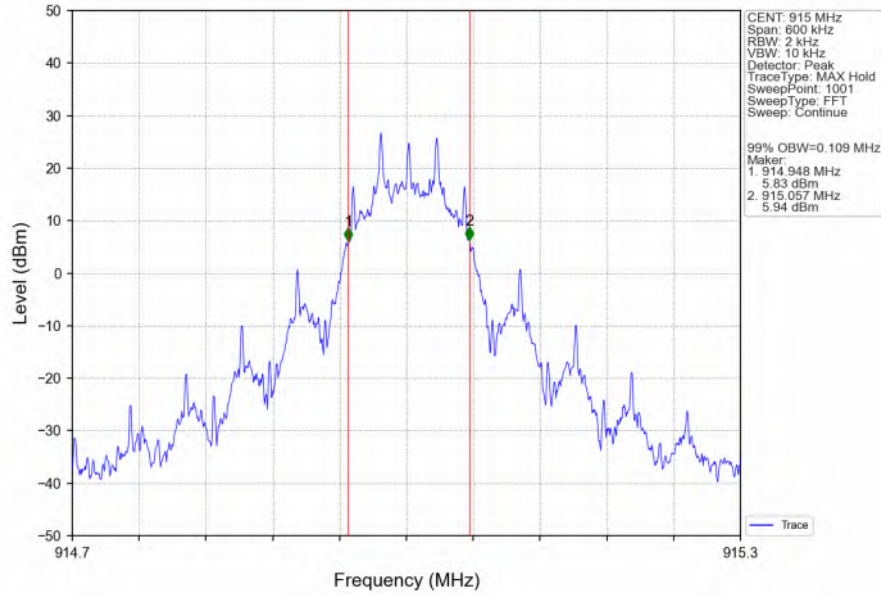
400kHz_HCH_927.6MHz_Ant1_NTNV



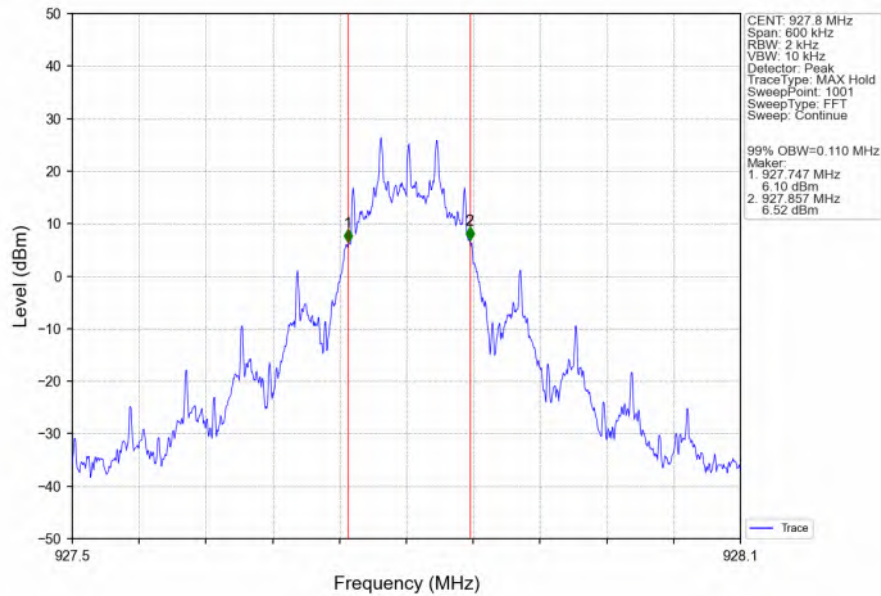
200kHz_LCH_902.2MHz_Ant1_NTNV



200kHz_MCH_915MHz_Ant1_NTNV

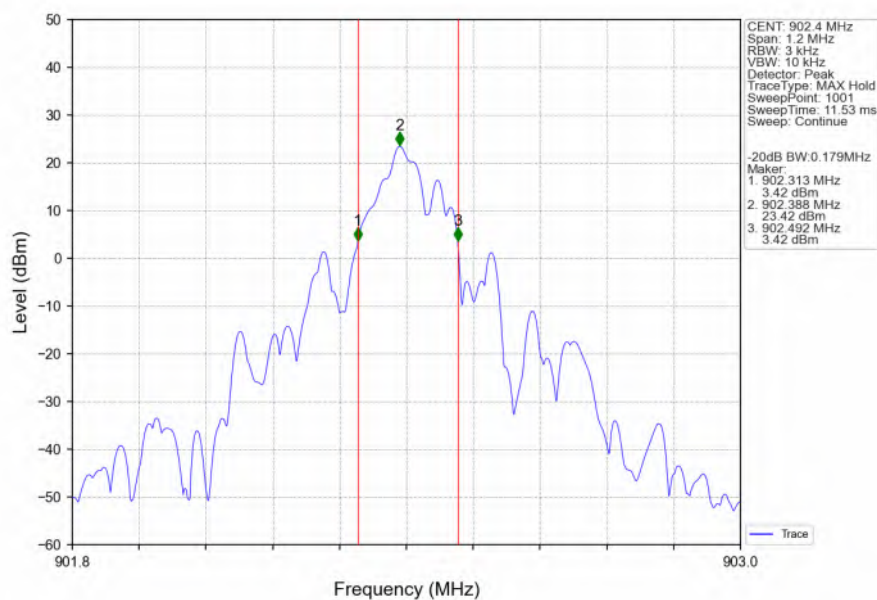


200kHz_HCH_927.8MHz_Ant1_NTNV

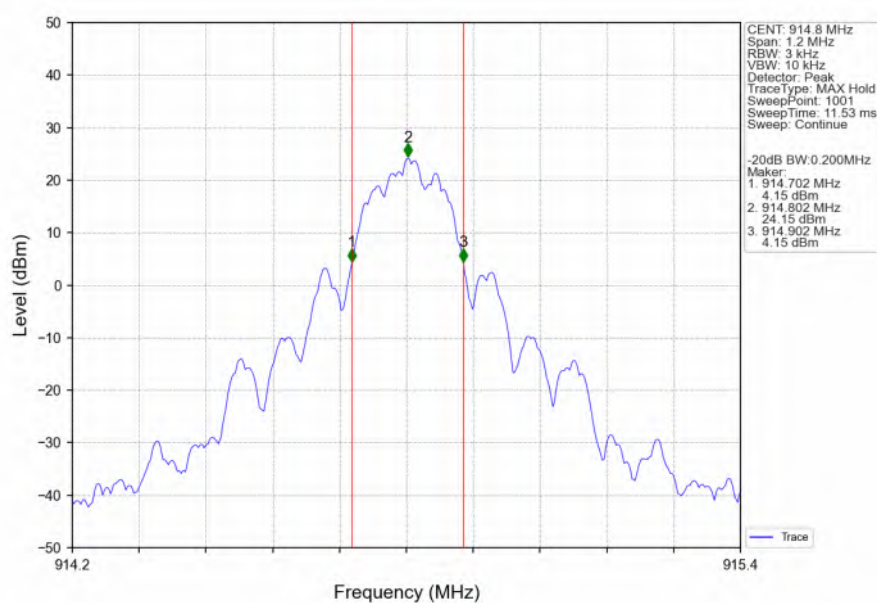


1.2.2 20dB BW

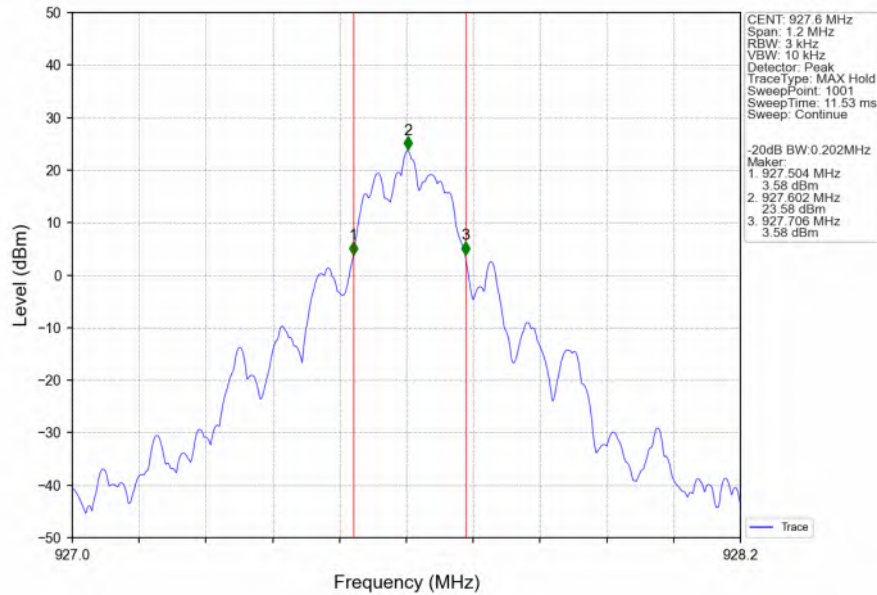
400kHz_LCH_902.4MHz_Ant1_NTNV



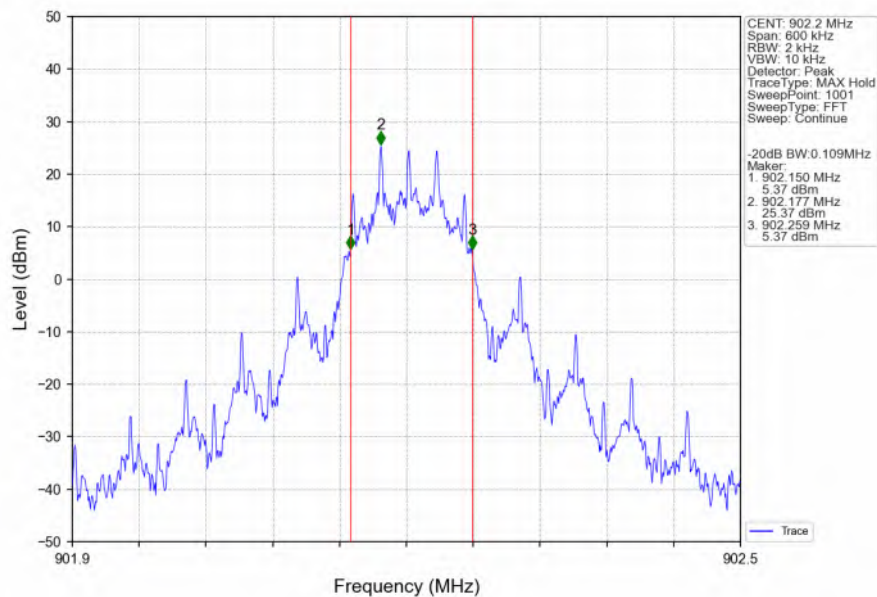
400kHz_MCH_914.8MHz_Ant1_NTNV



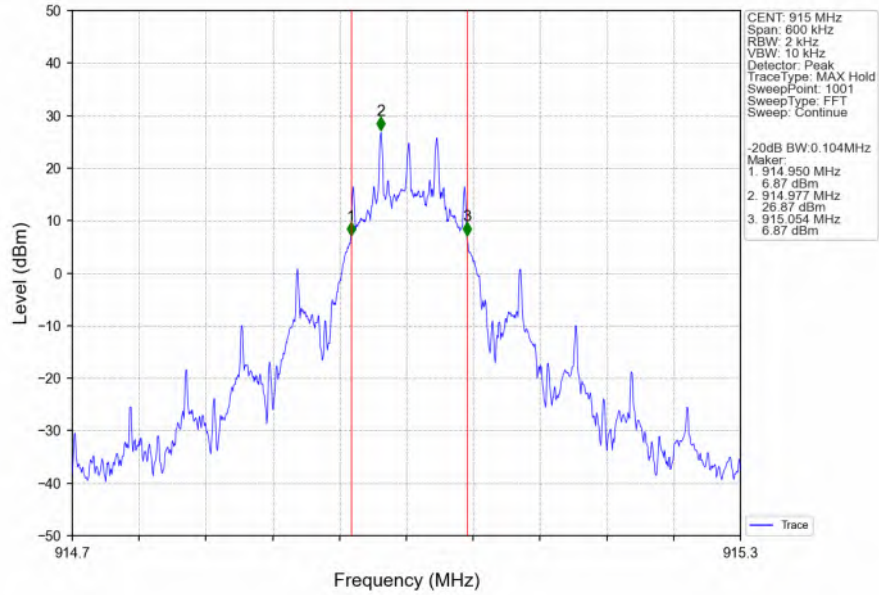
400kHz_HCH_927.6MHz_Ant1_NTNV



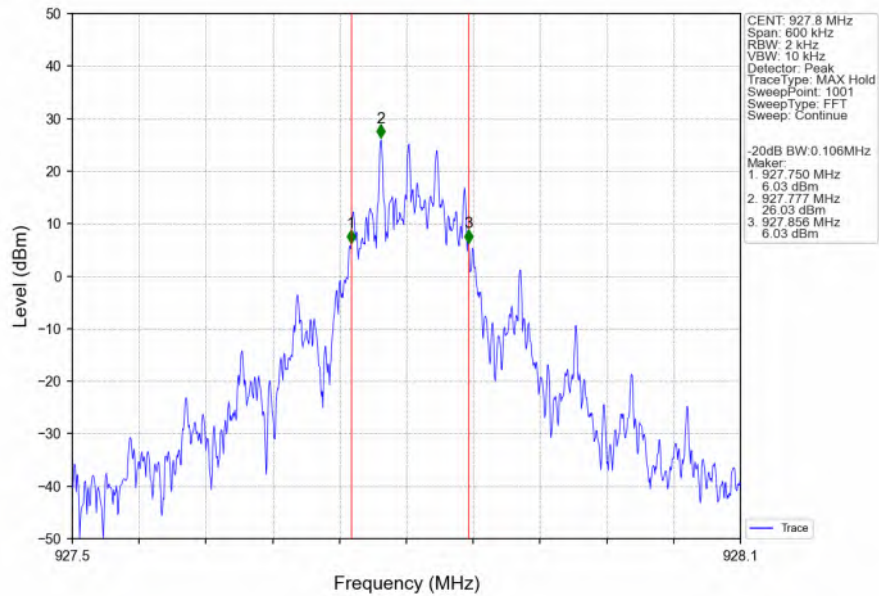
200kHz_LCH_902.2MHz_Ant1_NTNV



200kHz_MCH_915MHz_Ant1_NTNV



200kHz_HCH_927.8MHz_Ant1_NTNV



2. Maximum Conducted Output Power

2.1 Test Result

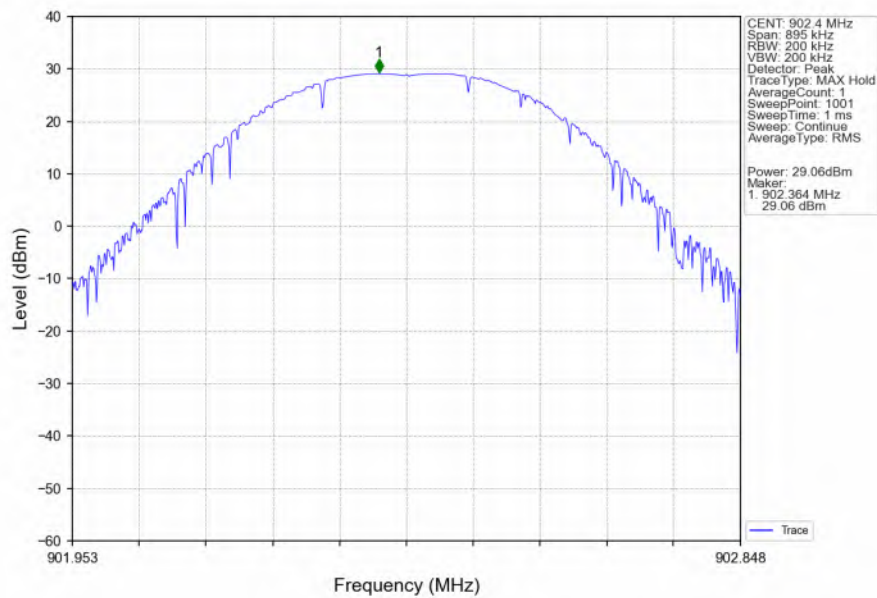
2.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
400kHz	SISO	902.4	29.06	<=30	Pass
		914.8	29.37	<=30	Pass
		927.6	29.76	<=30	Pass
200kHz	SISO	902.2	29.12	<=30	Pass
		915	29.41	<=30	Pass
		927.8	29.78	<=30	Pass
Note1: Antenna Gain: Ant1: 1.10dBi;					

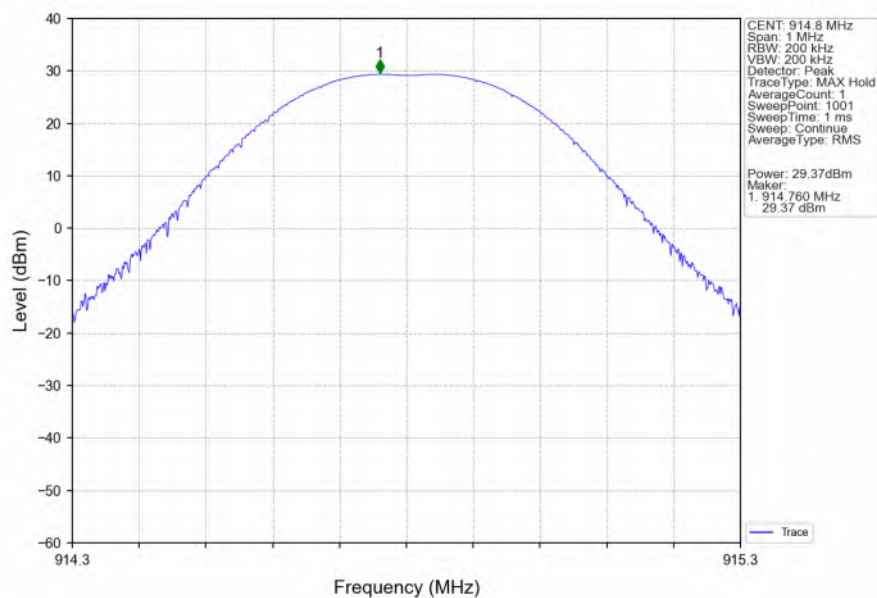
2.2 Test Graph

2.2.1 Power

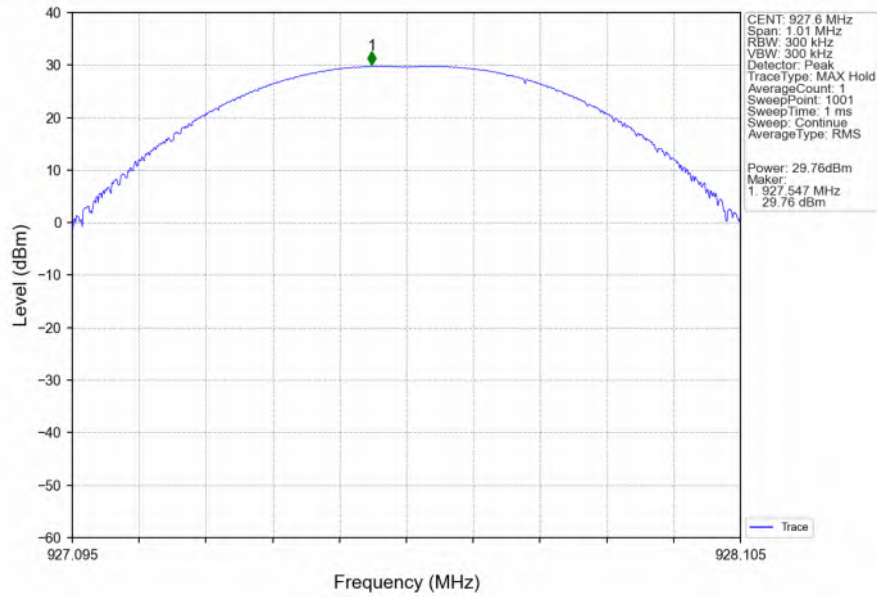
400kHz_LCH_902.4MHz_Ant1_NTNV



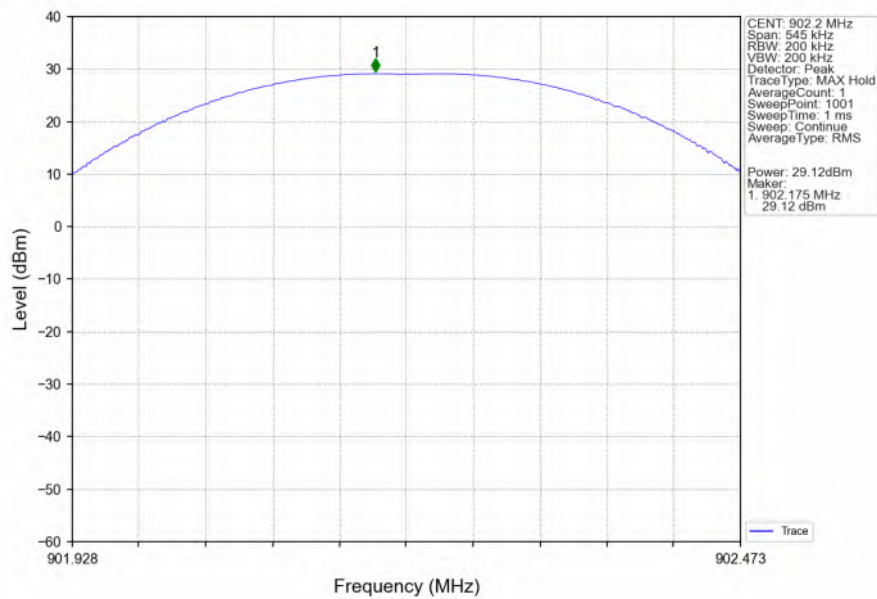
400kHz_MCH_914.8MHz_Ant1_NTNV



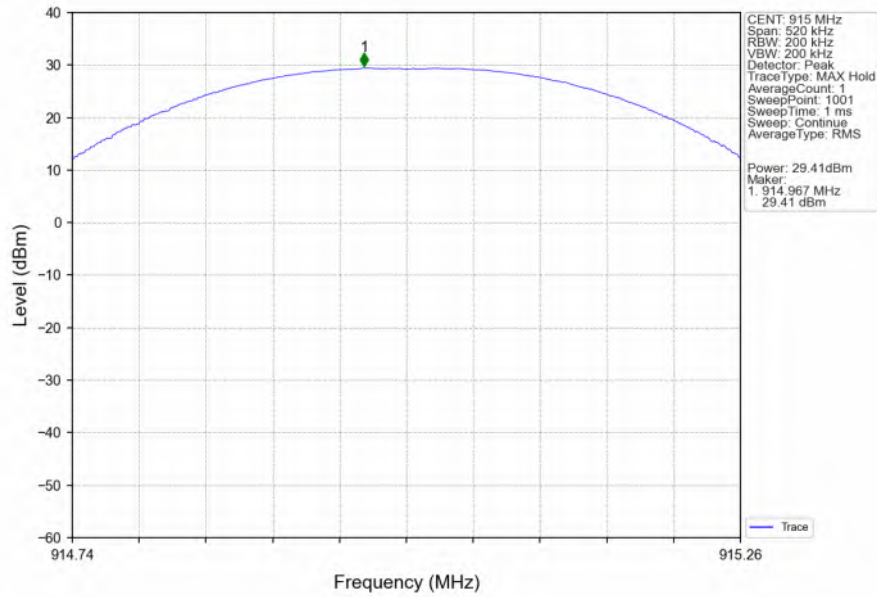
400kHz_HCH_927.6MHz_Ant1_NTNV



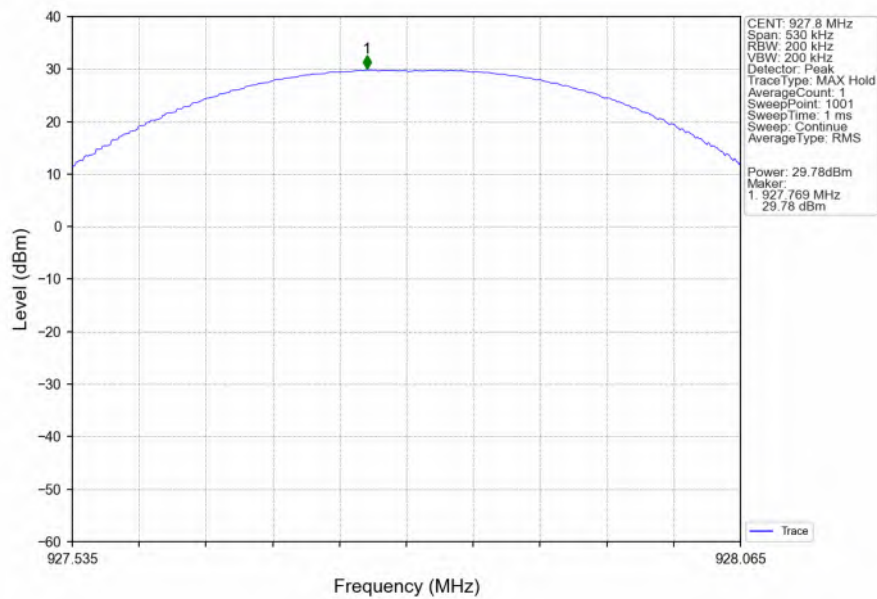
200kHz_LCH_902.2MHz_Ant1_NTNV



200kHz_MCH_915MHz_Ant1_NTNV



200kHz_HCH_927.8MHz_Ant1_NTNV



3. Carrier Frequency Separation

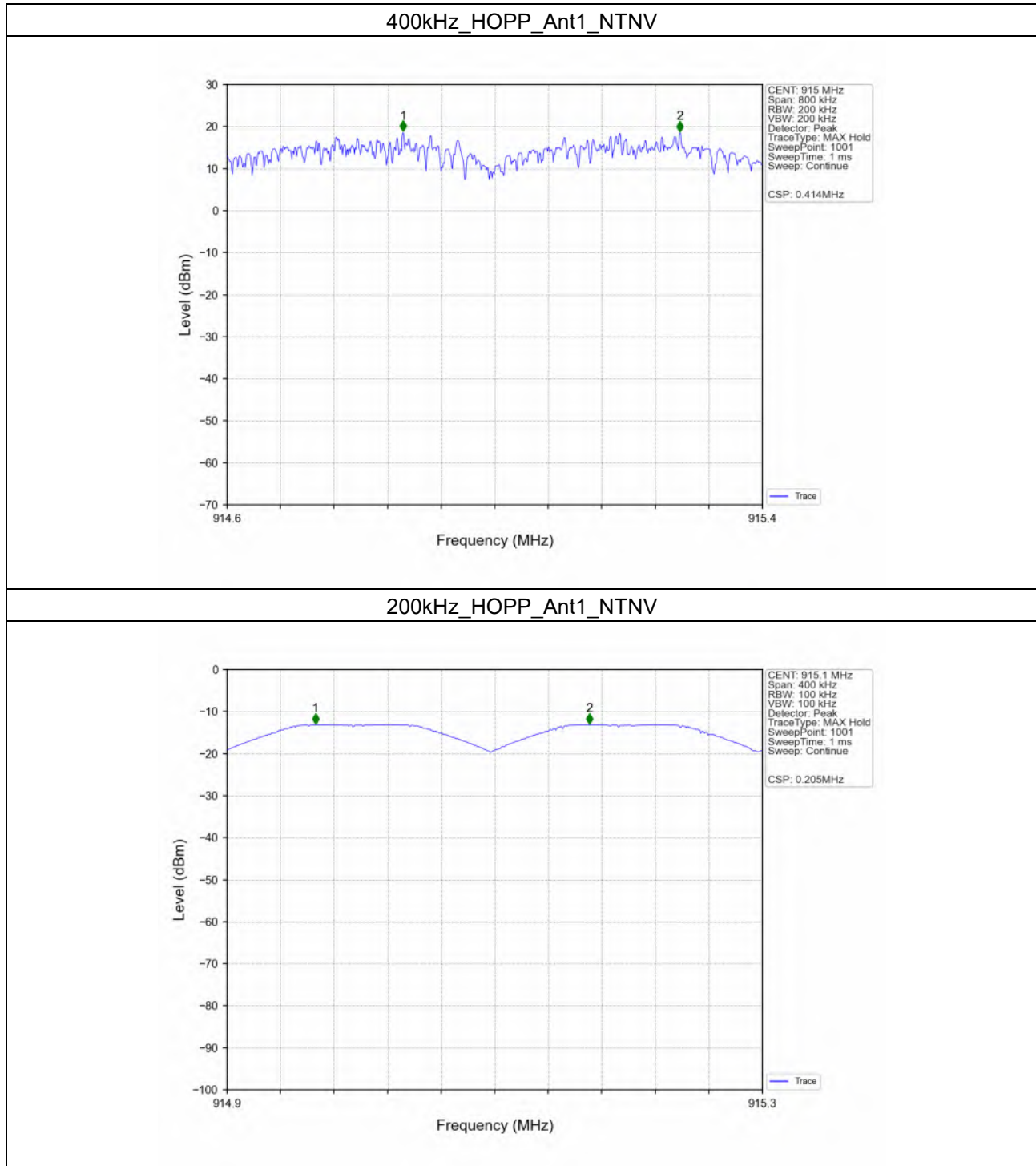
3.1 Test Result

3.1.1 Ant1

Ant1						
Mode	TX Type	Frequency (MHz)	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
400kHz	SISO	HOPP	0.414	0.202	≥ 0.202	Pass
200kHz	SISO	HOPP	0.205	0.109	≥ 0.109	Pass

3.2 Test Graph

3.2.1 Ant1





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4. Number of Hopping Frequencies

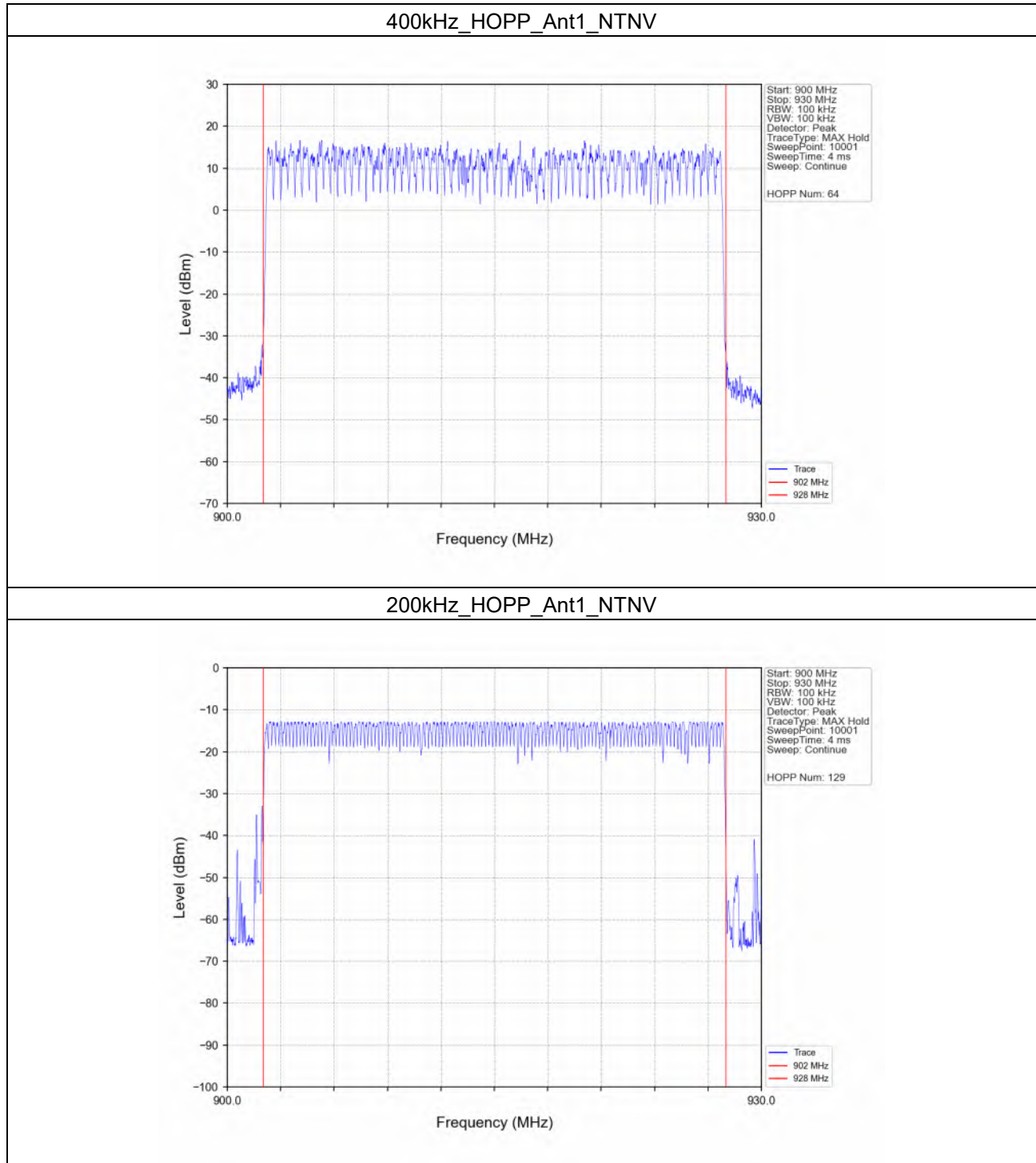
4.1 Test Result

4.1.1 HoppNum

Mode	TX Type	Frequency (MHz)	Num of Hopping Frequencies		Verdict
			ANT1	Limit	
400kHz	SISO	HOPP	64	≥ 50	Pass
200kHz	SISO	HOPP	129	≥ 50	Pass

4.2 Test Graph

4.2.1 HoppNum





5. Time of Occupancy (Dwell Time)

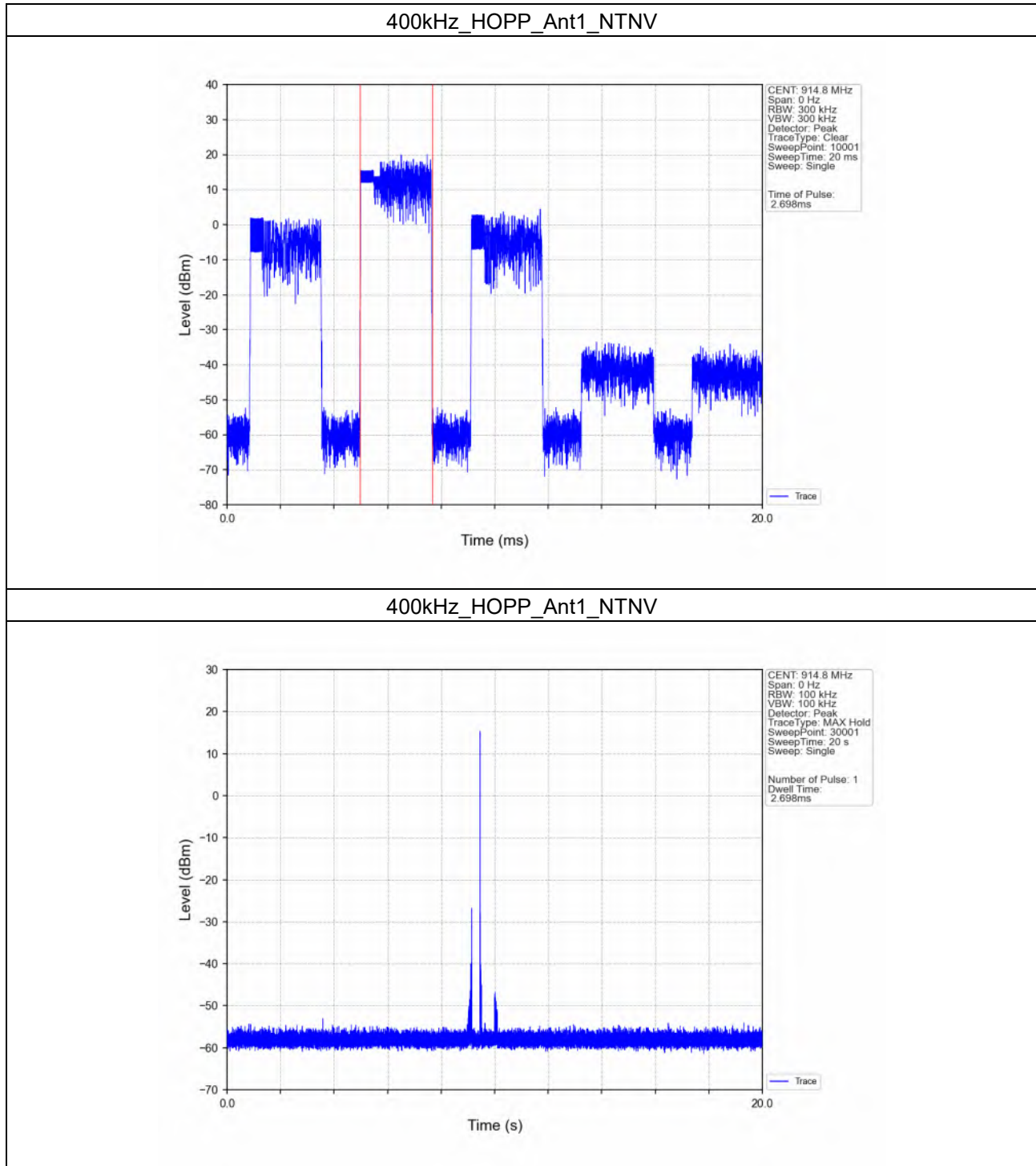
5.1 Test Result

5.1.1 Ant1

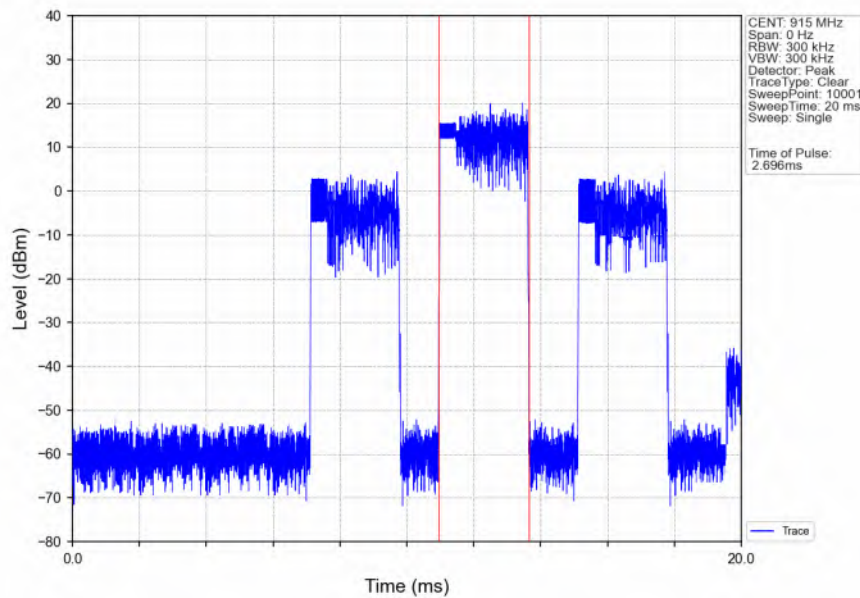
Ant1								
Mode	TX Type	Frequency (MHz)	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
400kHz	SISO	HOPP	2.698	20.000	1	2.698	<=400	Pass
200kHz	SISO	HOPP	2.696	20.000	1	2.696	<=400	Pass

5.2 Test Graph

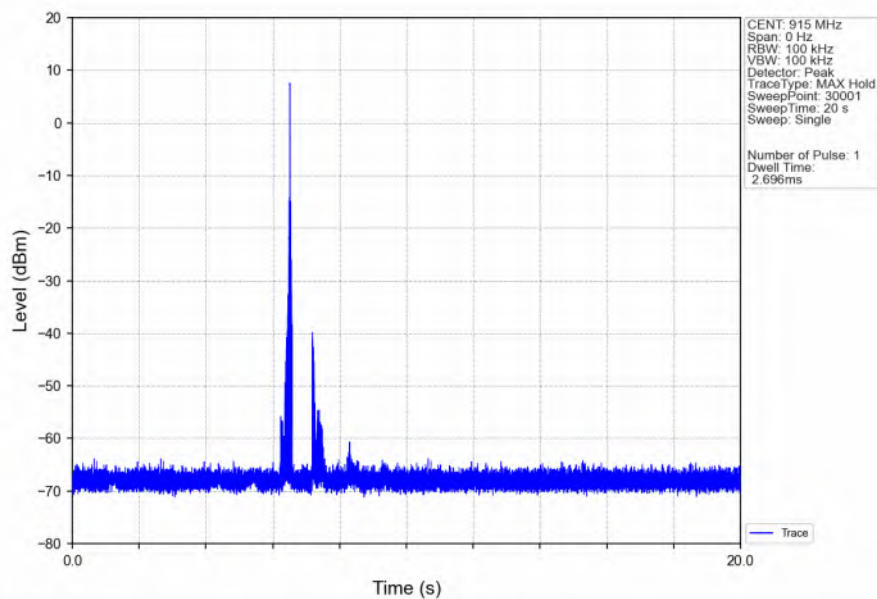
5.2.1 Ant1



200kHz_HOPP_Ant1_NTNV



200kHz_HOPP_Ant1_NTNV



6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Test Result

6.1.1 Ref

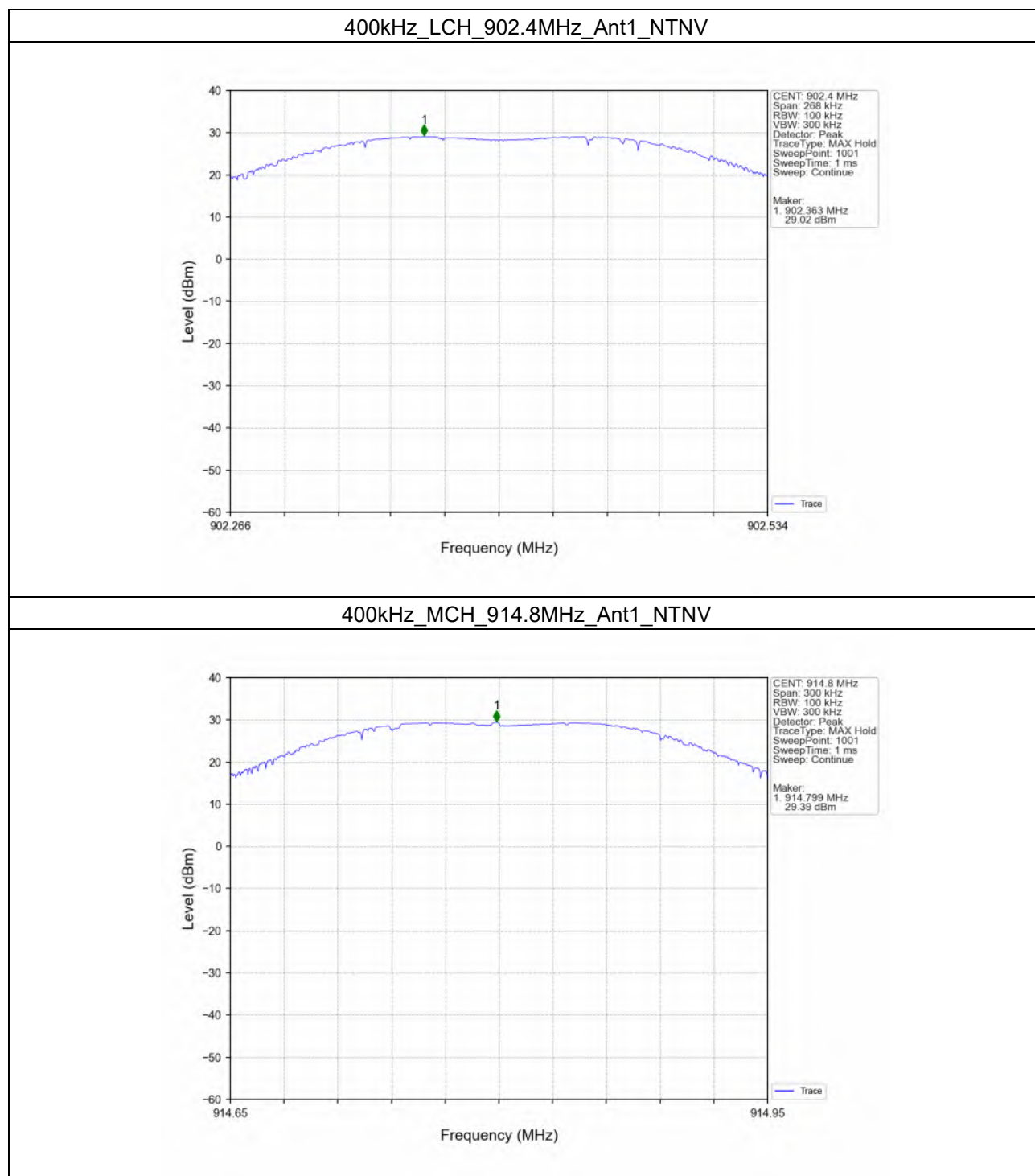
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
400kHz	SISO	902.4	1	29.02
		914.8	1	29.39
		927.6	1	29.63
200kHz	SISO	902.2	1	29.05
		915	1	29.31
		927.8	1	29.64

6.1.2 CSE

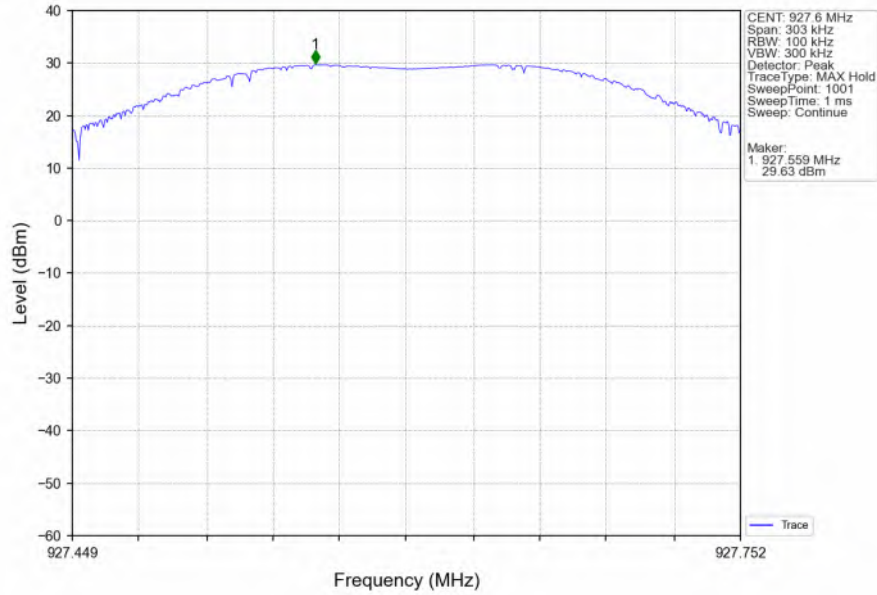
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
400kHz	SISO	902.4	1	29.63	9.63	Pass
		914.8	1	29.63	9.63	Pass
		927.6	1	29.63	9.63	Pass
		HOPP	1	29.63	9.63	Pass
				29.63	9.63	Pass
200kHz	SISO	902.2	1	29.64	9.64	Pass
		915	1	29.64	9.64	Pass
		927.8	1	29.64	9.64	Pass
		HOPP	1	29.64	9.64	Pass
				29.64	9.64	Pass

6.2 Test Graph

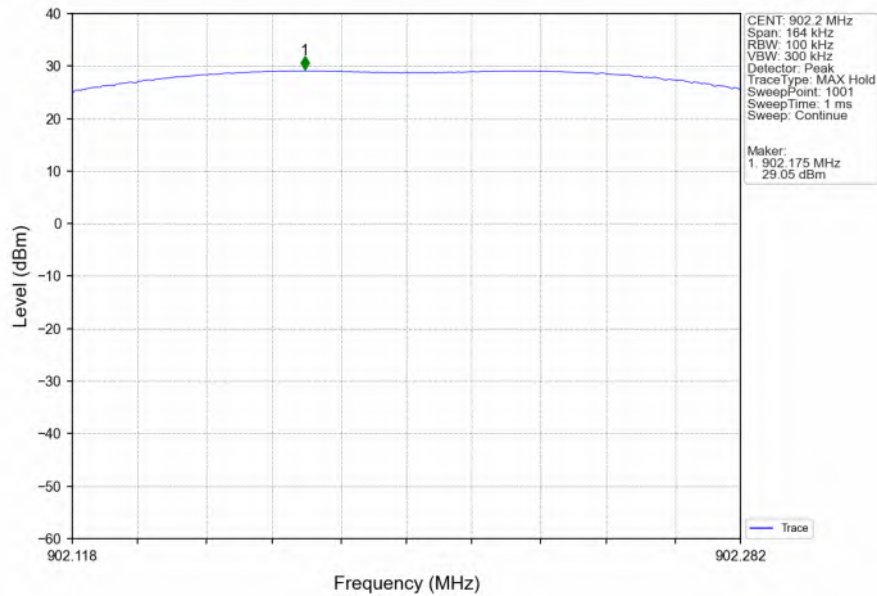
6.2.1 Ref



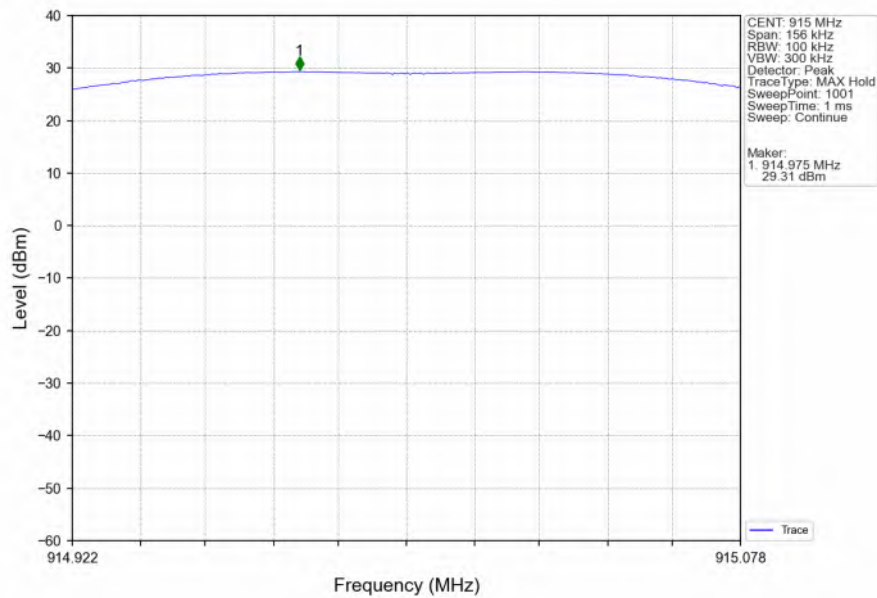
400kHz_HCH_927.6MHz_Ant1_NTNV



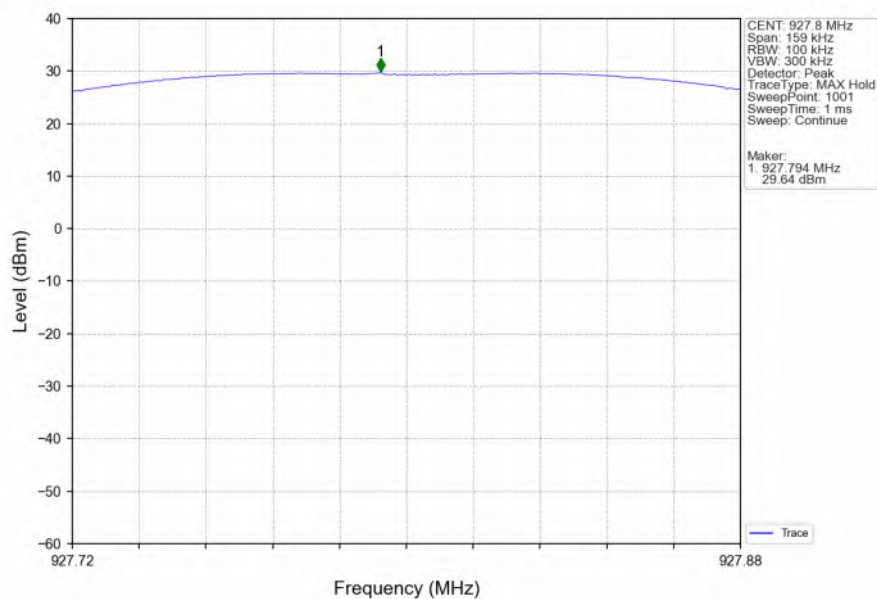
200kHz_LCH_902.2MHz_Ant1_NTNV



200kHz_MCH_915MHz_Ant1_NTNV

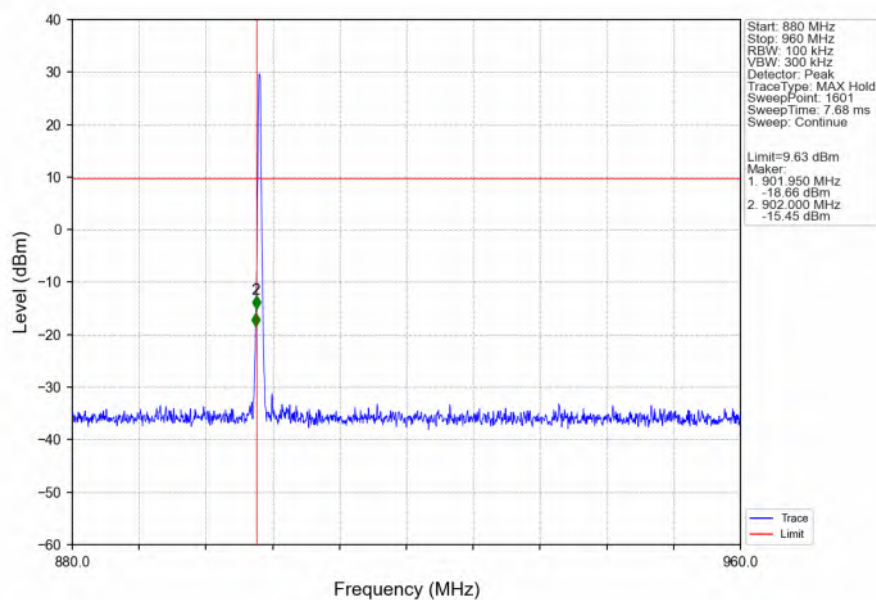


200kHz_HCH_927.8MHz_Ant1_NTNV

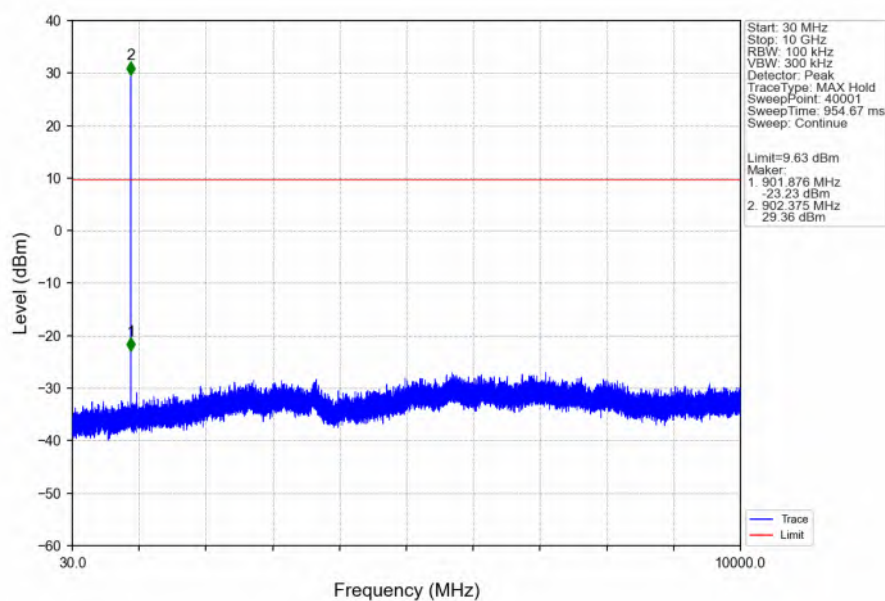


6.2.2 CSE

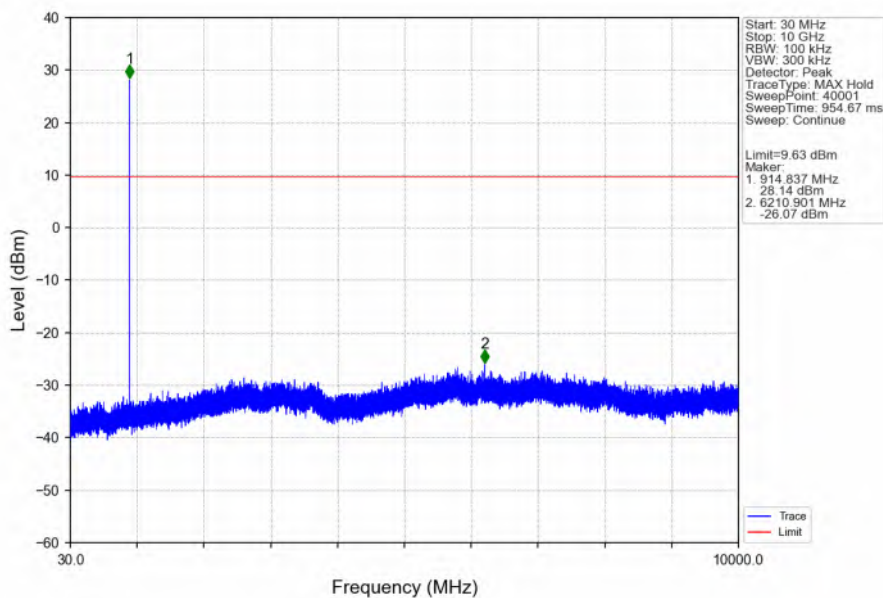
400K_LCH_902.4MHz_Ant1_NTNV



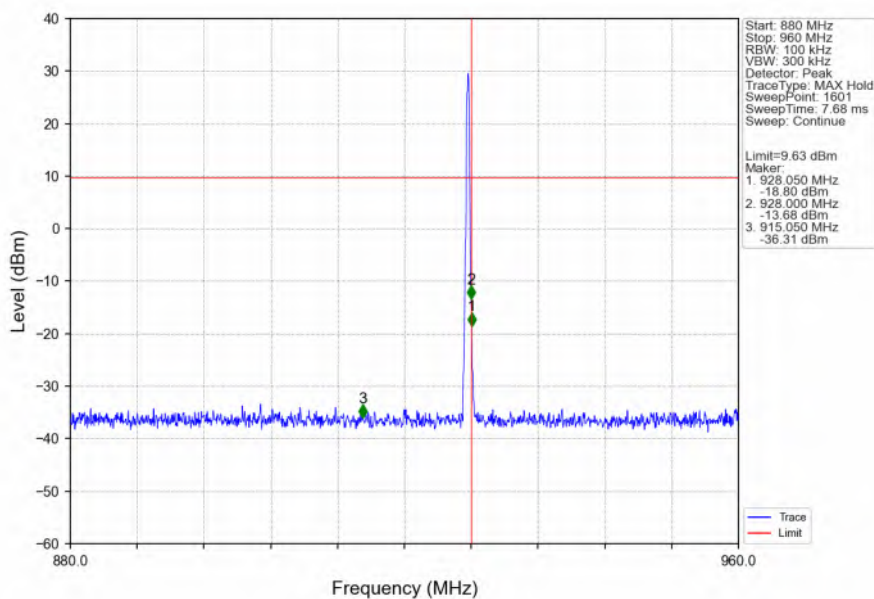
400K_LCH_902.4MHz_Ant1_NTNV



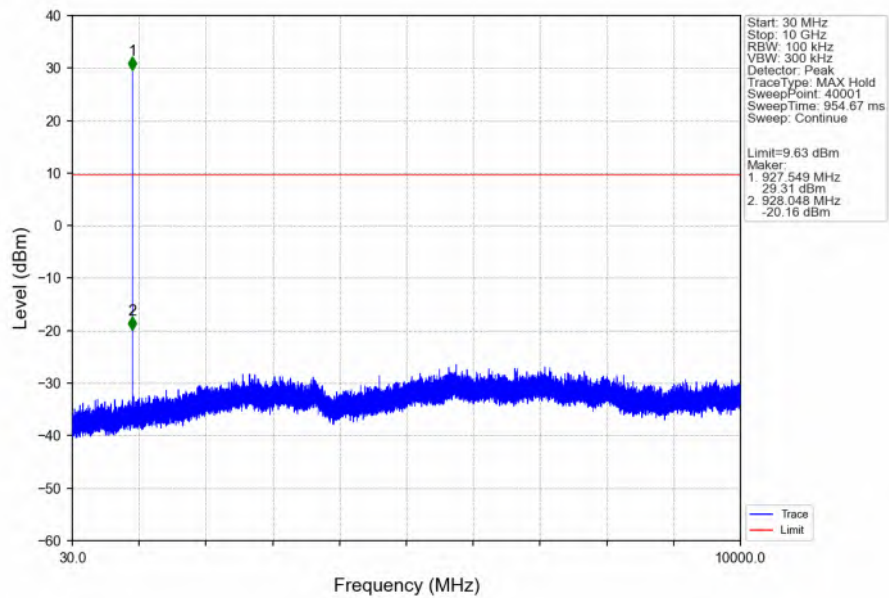
400K_MCH_914.8MHz_Ant1_NTNV



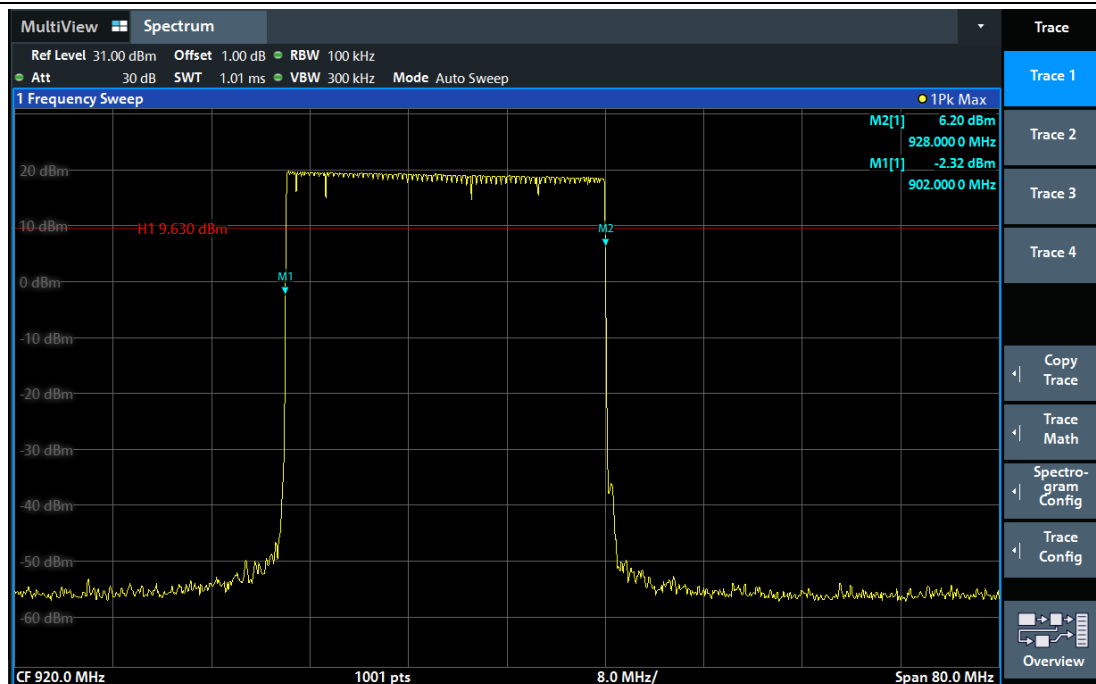
400K_HCH_927.6MHz_Ant1_NTNV



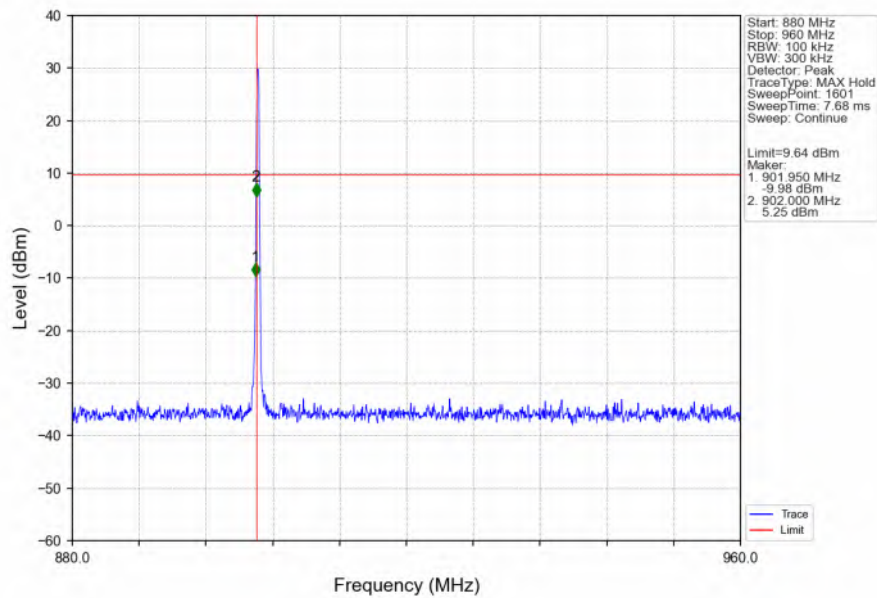
400K_HCH_927.6MHz_Ant1_NTNV



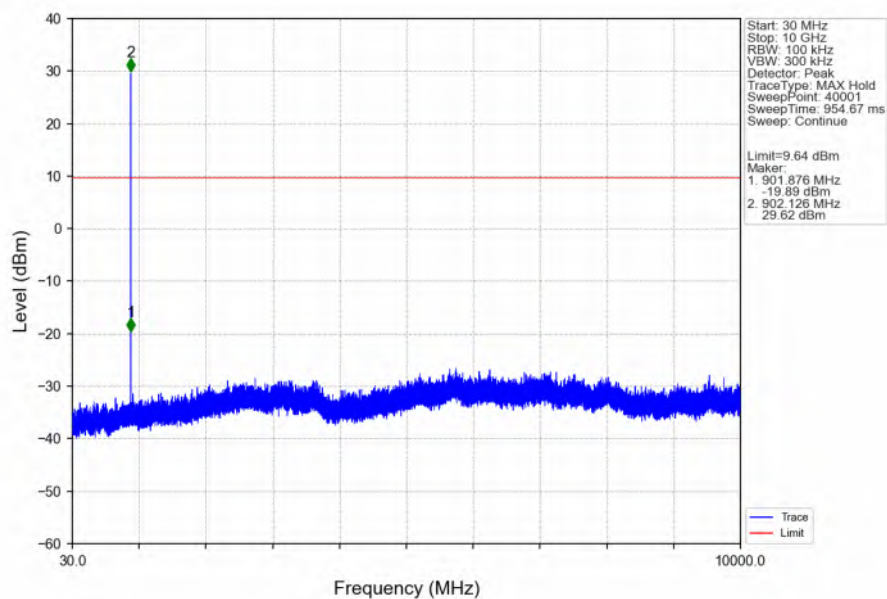
400kHz_HOPP_Ant1_NTNV



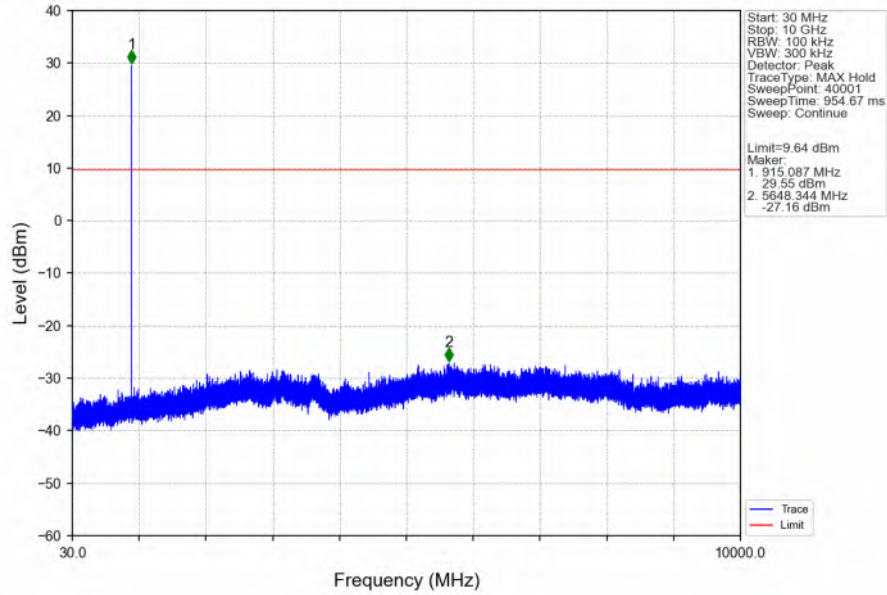
200K_LCH_902.2MHz_Ant1_NTNV



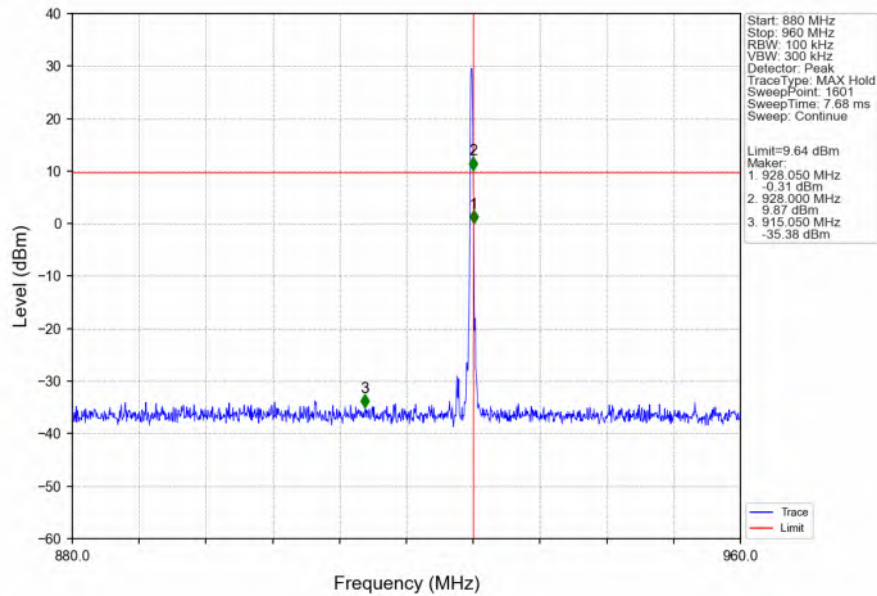
200K_LCH_902.2MHz_Ant1_NTNV



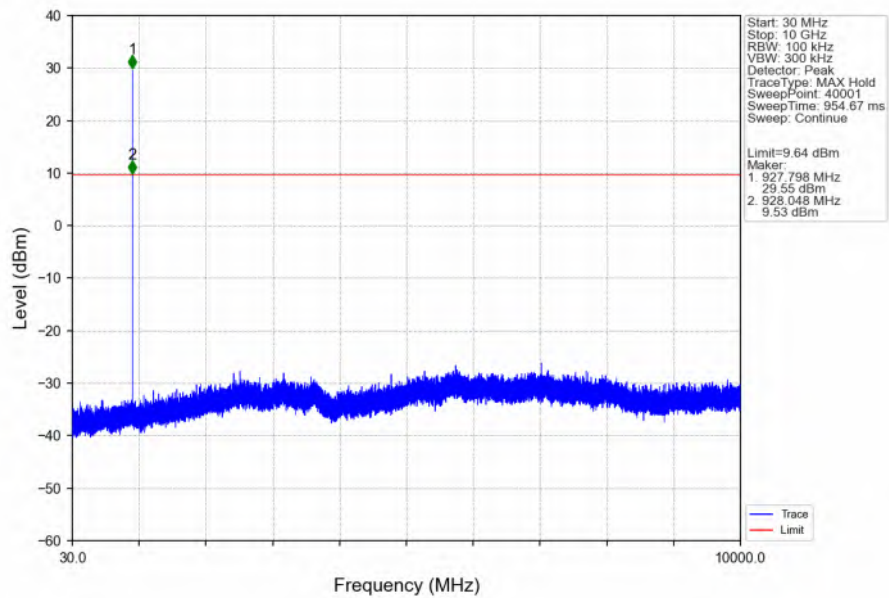
200K_MCH_915MHz_Ant1_NTNV



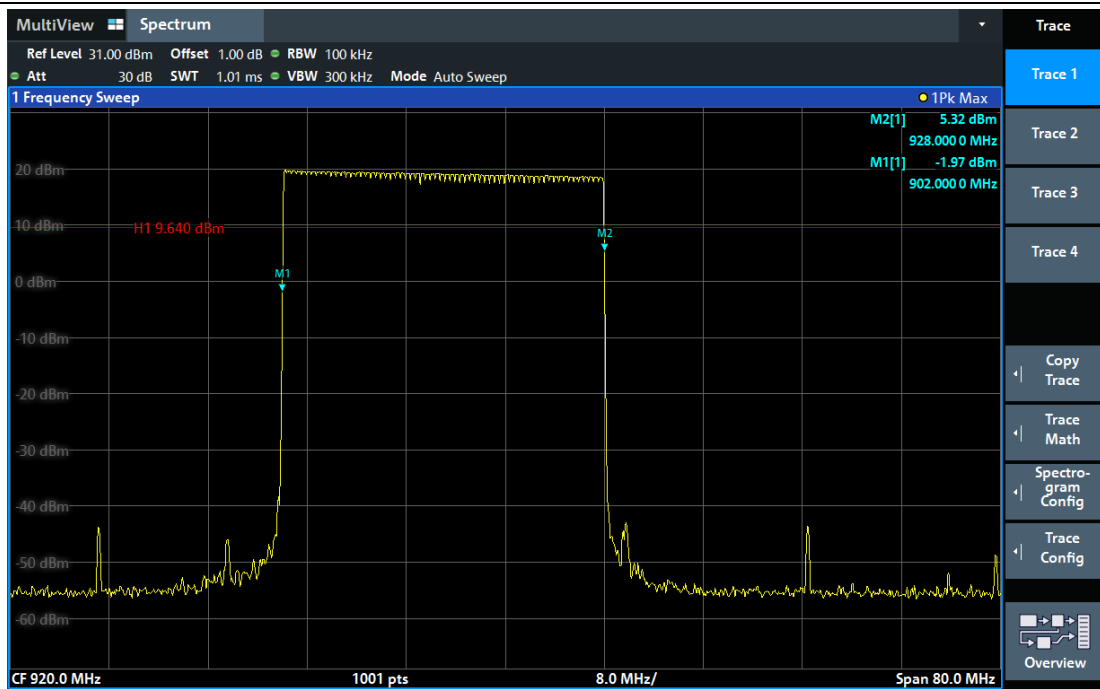
200K_HCH_927.8MHz_Ant1_NTNV



200K_HCH_927.8MHz_Ant1_NTNV



200kHz_HOPP_Ant1_NTNV



- End of the Report -