

Test report No:
2660719R.702A

FCC TEST REPORT

Product Name	WiFi/BT Module
Model and /or type reference	WM55UP01
Trademark	Hisense
FCC ID	2AJVQ-WM55UP01
Applicant's name / address	Qingdao Intelligent & Precise Electronics Co., Ltd. No.218, Qianwangang Road, Economic and Technological Development Zone, Qingdao, Shandong Province, China
Test method requested, standard	47 CFR FCC Part 15 (Section 15.247) ANSI C63.10: 2020
Verdict Summary	IN COMPLIANCE
Tested by (name / position & signature)	Reyn Chen / Supervisor 
Approved by (name / position & signature)	Well Wei / Manager 
Date of issue	2026-08-03
Report Version	V1.0
Report template No	Template_FCC Part 15C-RF-V1.0

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COMPETENCES AND GUARANTEES

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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GENERAL CONDITIONS

Test Location	Room 101, 1/F., Building 7, Smart Science Park Phase 5. No. 8213, Fanhua Avenue, Economic and Technological Development Zone, Hefei, Anhui, China
Date(receive sample)	Jun. 29, 2026
Date (start test)	Jul. 05, 2026
Date (finish test)	Jul. 23, 2026

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.
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4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA.

ENVIRONMENTAL CONDITIONS

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits:

Ambient temperature	15 °C – 35 °C
Relative Humidity air	30% - 60%

If explicitly required in the basic standard or applied product / product family standard the climatic values are recorded and documented separately in this test report.

POSSIBLE TEST CASE VERDICTS

Test case does not apply to test object	N/A
Test object does meet requirement	P (Pass) / PASS
Test object does not meet requirement	F (Fail) / FAIL
Not measured	N/M

ABBREVIATIONS

For the purposes of the present document, the following abbreviations apply:

EUT	: Equipment Under Test
QP	: Quasi-Peak
CAV	: CISPR Average
AV	: Average
CDN	: Coupling Decoupling Network
SAC	: Semi-Anechoic Chamber
OATS	: Open Area Test Site
BW	: Bandwidth
AM	: Amplitude Modulation
PM	: Pulse Modulation
HCP	: Horizontal Coupling Plane
VCP	: Vertical Coupling Plane
U_N	: Nominal voltage
T_x	: Transmitter
R_x	: Receiver
N/A	: Not Applicable
N/M	: Not Measured

DOCUMENT HISTORY

Report No.	Version	Description	Issued Date
2660719R.702A	V1.0	Initial issue of report.	2026-08-03

REMARKS AND COMMENTS

1. The equipment under test (EUT) does meet the essential requirements of the stated standard(s)/test(s).
2. These test results on a sample of the device are for the purpose of demonstrating Compliance with 47 CFR FCC Part 15 (Section 15.247).
3. The measurement result is considered in conformance with the requirement if it is within the prescribed limit, It is not necessary to account the uncertainty associated with the measurement result.
4. The test results presented in this report relate only to the object tested.
5. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification (Suzhou) Co., Ltd.
6. This report will not be used for social proof function in China market.
7. DEKRA declines any responsibility with the following test data provided by customer that may affect the validity of result:
 - Chapter 1.1 General Description of the Item(s);
 - Chapter 1.2 Channel List.

USED EQUIPMENT

Conducted Test/ SR103

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	Firmware Version	Software Version
Constant temperature and humidity chamber	Chuang Cexing	CCX-KS80DH	0005037	2026.05.11	2027.05.10	N/A	N/A
Frequency extender for EXG or MXG	Keysight	N5182BX07	MY59362500	2026.06.17	2027.06.16	N/A	N/A
Wideband Radio Communication Tester	R&S	CMW 500	163864	2026.05.08	2027.05.07	V 4.0.60	N/A
MAX Signal Analyzer	Keysight	N9020A	MY56060147	2026.06.17	2027.06.16	A.17.55	N/A
RF Control Unit	Tonscend	JS0806-2	806JS2X02 1710251017	2026.06.23	2027.06.22	N/A	N/A
Signal Generator	R&S	SMR 20	100654	2026.06.09	2027.06.08	N/A	N/A
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY61252529	2026.06.17	2027.06.16	N/A	N/A
Test Software	Tonscend	TS1120	JS1120-3	N/A	N/A	N/A	V3.6.21
Temperature/Humidity Meter	RITERS	RTS-8S	034	2025.08.25	2026.08.24	N/A	N/A

Radiated Emission(9KHz-1GHz) / AC102

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date	Firmware Version	Software version
semi-anechoic chamber	Maorui	9m*6m*6m	AC102	2023.08.23	2026.08.22	N/A	N/A
Bilog Antenna	TESEQ	CBL6112D	57867	2025.10.27	2026.10.26	N/A	N/A
Loop Antenna	R&S	HFH2-Z2E	101181	2025.10.24	2026.10.23	N/A	N/A
EMI test receiver	R&S	ESR7	102753	2026.05.07	2027.05.06	V3.66SP1	
Temperature/ Humidity Meter	RTS-8S	RTS-8S	013	2025.08.29	2026.08.28	N/A	N/A
Temperature/ Humidity Meter	RTS-8S	RTS-8S	015	2025.08.25	2026.08.24	N/A	N/A
Test Software	TS+	TS Testing System	N/A	N/A	N/A	N/A	V1.0

Radiated Emission (1GHz-40GHz) / AC103

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	Firmware Version	Software Version
Fully-anechoic chamber	Maorui	9m*6m*6m	AC103	2023.08.23	2026.08.22	N/A	N/A
MAX Signal Analyzer	Keysight	N9020B	MY63490118	2025.08.08	2026.08.07	A35.06	N/A
Horn Antenna	RF SPIN	DRH18-E	KV2D11A18ES	2025.10.19	2026.10.18	N/A	N/A
Low Noise Amplifier	Tonscend	TAP01018048S	AP23J8060307	2025.10.17	2026.10.16	N/A	N/A
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	01312	2025.10.18	2026.10.17	N/A	N/A
Low Noise Amplifier	ESE	LNA1840	LNA23070301	2025.10.17	2026.10.16	N/A	N/A
Temperature/Humidity Meter	RITERS	RTS-8S	029	2025.08.25	2026.08.24	N/A	N/A
Temperature/Humidity Meter	RITERS	RTS-8S	010	2025.08.25	2026.08.24	N/A	N/A
Test Software	Tonscend	J536	JS36-RSE	N/A	N/A	N/A	5.0.0

UNCERTAINTY

Uncertainties have been calculated according to the DEKRA internal document. The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%. The Uncertainties is comply with standard required as below.

Test item	Uncertainty
AC Power Line Conducted Emission	9kHz~150kHz: 2.8 dB 150kHz~30MHz: 2.4 dB
Power Output	± 1.3 dB
Radiated Emission(30MHz~1GHz)	Horizontal: 30MHz~300MHz: 3.5 dB, 300MHz~1GHz: 3.6 dB Vertical: 30MHz~300MHz: 3.6 dB, 300MHz~1GHz: 3.5 dB
Radiated Emission(1GHz~40GHz)	Horizontal: 1GHz~40GHz: 5.0 dB Vertical: 1GHz~40GHz: 4.8 dB
RF antenna conducted test	± 1.3 dB
Radiated Emission Band Edge	± 3.9 dB
DTS Bandwidth	± 1.0 kHz
Occupied Bandwidth	± 1.0 kHz
Power Density	± 1.3 dB

1 GENERAL INFORMATION

1.1 General Description of the Item(s)

Product Name:	WiFi/BT Module						
Model Name:	WM55UP01						
Trademark.:	Hisense						
FCC ID:	2AJVQ-WM55UP01						
Power Supply:	3.3Vdc						
Hardware Version:	N/A						
Software Version:	N/A						
Manufacturer:	Qingdao Intelligent & Precise Electronics Co., Ltd.						
Manufacturer Address:	No.218, Qianwangang Road, Economic and Technological Development Zone, Qingdao, Shandong Province, China						
Test Matrix/ IMEI:	RF Conducted		#1				
	RSE		#2				
Wireless specification:	Bluetooth (BR/EDR)						
Operating frequency range(s):	2402~2480MHz						
Type of Modulation:	GFSK						
PHYs:	☒	GFSK		☒	Pi/4 DQPSK	☒	8DPSK
Data Rate:	☒	1Mbit/s		☒	2Mbit/s	☒	3Mbit/s
Number of channels:	79						
Antenna Type:	PIFA Antenna						
Antenna Gain:	6.04dBi						

Remark:

As above information is provided and confirmed by the applicant. DEKRA is not liable to the accuracy, suitability, reliability or/and integrity of the information.

1.2 Channel List

Bluetooth Working Frequency of Each Channel: (For FHSS)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
00	2402 MHz	01	2403 MHz	02	2404 MHz	03	2405 MHz
04	2406 MHz	05	2407 MHz	06	2408 MHz	07	2409 MHz
08	2410 MHz	09	2411 MHz	10	2412 MHz	11	2413 MHz
12	2414 MHz	13	2415 MHz	14	2416 MHz	15	2417 MHz
16	2418 MHz	17	2419 MHz	18	2420 MHz	19	2421 MHz
20	2422 MHz	21	2423 MHz	22	2424 MHz	23	2425 MHz
24	2426 MHz	25	2427 MHz	26	2428 MHz	27	2429 MHz
28	2430 MHz	29	2431 MHz	30	2432 MHz	31	2433 MHz
32	2434 MHz	33	2435 MHz	34	2436 MHz	35	2437 MHz
36	2438 MHz	37	2439 MHz	38	2440 MHz	39	2441 MHz
40	2442 MHz	41	2443 MHz	42	2444 MHz	43	2445 MHz
44	2446 MHz	45	2447 MHz	46	2448 MHz	47	2449 MHz
48	2450 MHz	49	2451 MHz	50	2452 MHz	51	2453 MHz
52	2454 MHz	53	2455 MHz	54	2456 MHz	55	2457 MHz
56	2458 MHz	57	2459 MHz	58	2460 MHz	59	2461 MHz
60	2462 MHz	61	2463 MHz	62	2464 MHz	63	2465 MHz
64	2466 MHz	65	2467 MHz	66	2468 MHz	67	2469 MHz
68	2470 MHz	69	2471 MHz	70	2472 MHz	71	2473 MHz
72	2474 MHz	73	2475 MHz	74	2476 MHz	75	2477 MHz
76	2478 MHz	77	2479 MHz	78	2480 MHz	N/A	N/A

Note: The General Description of the Item, Channel List in clause 1 are provided and confirmed by the client.

2 DESCRIPTION OF TEST SETUP

2.1 Auxiliary equipment /Accessories/Test software for the EUT

Auxiliary equipment	Type / Version	Manufacturer	Supplied by
(1) Notebook	Think pad x220	Lenovo	Adapter
(2) USB Control Cable	N/A	N/A	N/A
(3) USB Control Cable	N/A	N/A	N/A
software	Type / Version		
MediaTek BT Tool	N/A		

Accessories Information	Cable		
	Length used during test [m]	Attached during test	Shielded
(2)USB Control Cable	1	☒	☒
(3)USB Control Cable	8	☒	☒

2.2 Power setting in test

Mode	Channel	Frequency (MHz)	Power Setting
DH5	00	2402	default
	39	2441	default
	78	2480	default
2DH5	00	2402	default
	39	2441	default
	78	2480	default
3DH5	00	2402	default
	39	2441	default
	78	2480	default

3 VERDICT SUMMARY SECTION

This chapter presents an overview of standards and results. Refer to the next chapters for details of measured test results and applied test levels.

3.1 Standards

Standard	Year	Description
CFR 47, FCC Part 15 C	2024	Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz.
ANSI C63.10	2020	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

3.2 Deviation(s) from the Standard(s) / Test Specification(s)

The following deviation(s) was / were made from the published requirements of the listed standards: N/A.

(Please define the deviations from the standard(s) if applicable)

3.3 Overview of results

Requirement – Test Item of FCC	Standard(s)	Verdict	Remark
20dB Emission Bandwidth	FCC 15.247(a)(1)	PASS	Test data please refer to Appendix A
Maximum conducted output power	FCC 15.247(b)(1)	PASS	Test data please refer to Appendix B
Carrier Frequency Separation	FCC 15.247(a)(1)	PASS	Test data please refer to Appendix C
Time of Occupancy (Dwell Time)	FCC 15.247(a)(1)(iii)	PASS	Test data please refer to Appendix D
Number of Hopping Frequencies	FCC 15.247(a)(1)(iii)	PASS	Test data please refer to Appendix E
Band edge measurements	FCC 15.247(d)	PASS	Test data please refer to Appendix F
Conducted Spurious Emission	FCC 15.247(d), FCC 15.209	PASS	Test data please refer to Appendix G
Emissions in Restricted Bands	FCC 15.247(b)(3)	PASS	Test data please refer to Appendix H
AC Power Line Conducted Emission	FCC 15.207	N/A	Not applicable. The EUT is powered by DC.
Antenna Requirement	FCC 15.203	PASS	---
Note: The radiation measurement is pre tested under X, Y, and Z axis positioning to find the worst placement for final testing.			

3.4 Test Facility

Tset Location : FCC Designation Number: CN1321

4 TEST ITEMS OF LIMIT/SETUP/PROCEDURE

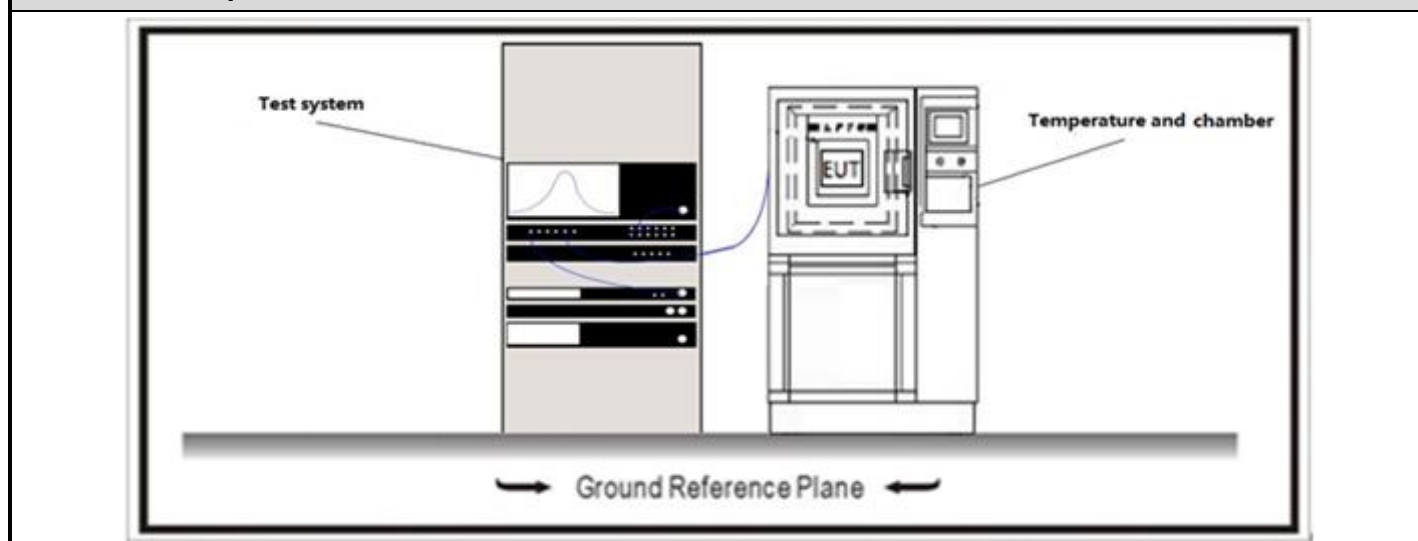
4.1 20dB Emission Bandwidth

VERDICT: PASS

4.1.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.247(a)
☒	For frequency hopping systems operating in 2400-2483.5 MHz band, within frequency range.
☐	For frequency hopping systems operating in 902-928 MHz band, the maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.
☐	For frequency hopping systems operating in 5725-5850 MHz band, the maximum 20 dB bandwidth of the hopping channel is 1 MHz.

4.1.2 Test Setup

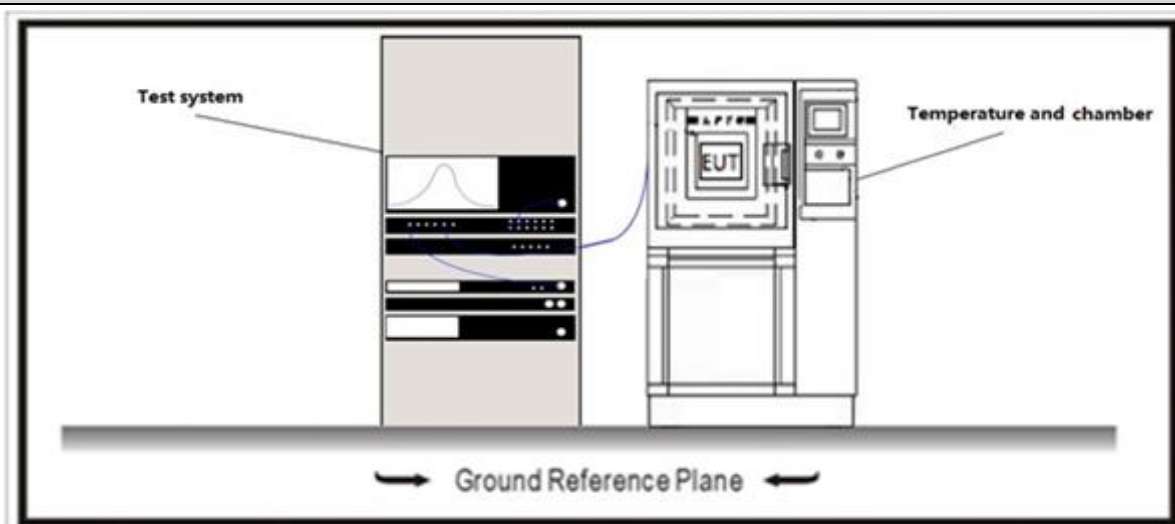


4.1.3 Test Procedure

References Rule	Chapter	Description
☒ ANSI C63.10	6.9	Occupied bandwidth tests
☒ ANSI C63.10	6.9.2	Occupied bandwidth—relative measurement procedure

4.2 Maximum Conducted Output Power**VERDICT: PASS****4.2.1 Limit**

Standard	FCC Part 15 Subpart C Paragraph 15.247(b);
☒	Frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
☒	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.
☐	For frequency hopping systems operating in the 902-928 MHz band: 1 watt for systems employing at least 50 hopping channels; and, 0.25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels

4.2.2 Test Setup**4.2.3 Test Procedure**

	References Rule	Chapter	Description
☒	ANSI C63.10	7.8	Evaluation of frequency-hopping device parameters
☒	ANSI C63.10	7.8.5	Output power test procedure for frequency-hopping spread-spectrum (FHSS) devices

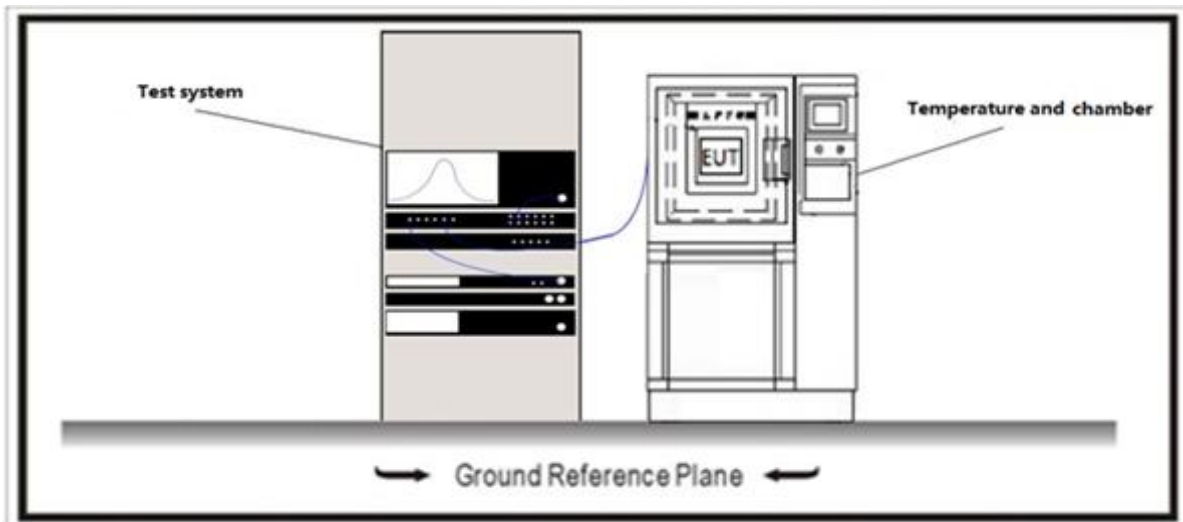
4.3 Carrier Frequency Separation

VERDICT: PASS

4.3.1 Limit

Standard		FCC Part 15 Subpart C Paragraph 15.247(a);
☐	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.	
☒	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.	
☐	The 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period;	
☐	The 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.	
☐	Frequency hopping systems operating in the 5725-5850 MHz band shall use at least 75 hopping frequencies. The maximum 20 dB bandwidth of the hopping channel is 1 MHz.	

4.3.2 Test Setup

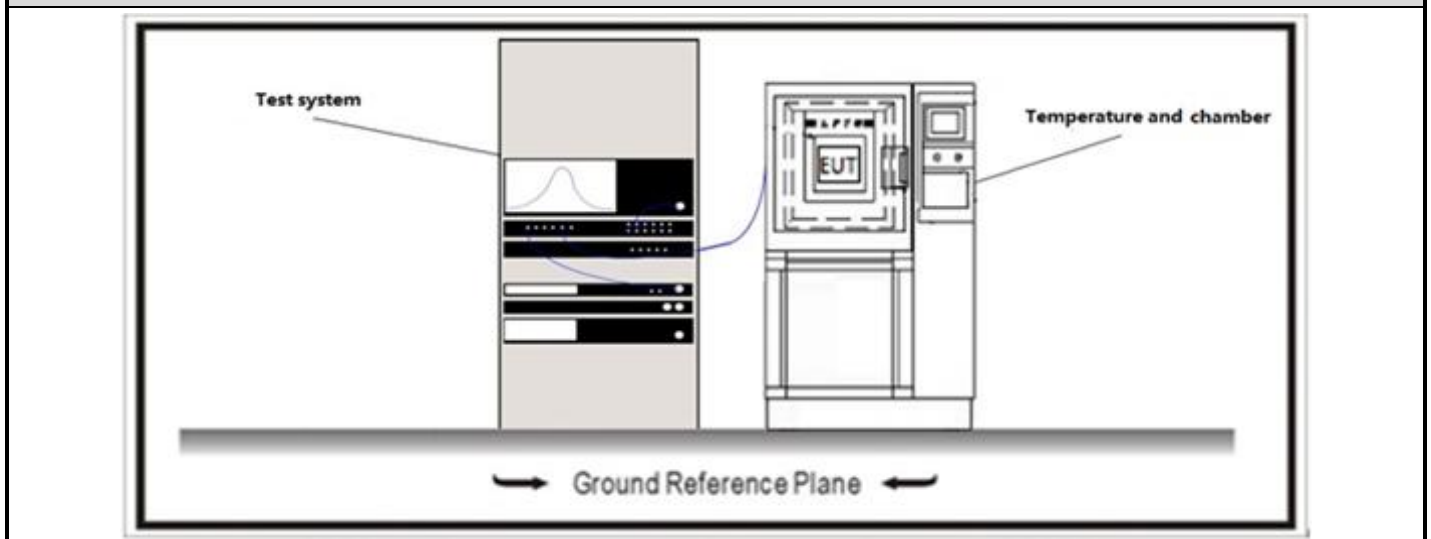


4.3.3 Test Procedure

References Rule		Chapter	Description
☒	ANSI C63.10	7.8	Evaluation of frequency-hopping device parameters
☒	ANSI C63.10	7.8.2	Carrier frequency separation

4.4 Time of Occupancy**VERDICT: PASS****4.4.1 Limit**

Standard	FCC Part 15 Subpart C Paragraph 15.247(a);
☒ Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.	
☐ For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period	
☐ For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period.	
☐ Frequency hopping systems operating in the 5725-5850 MHz band shall use at least 75 hopping frequencies. The maximum 20 dB bandwidth of the hopping channel is 1 MHz. The average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 30 second period.	

4.4.2 Test Setup**4.4.3 Test Procedure**

References Rule	Chapter	Description
☒ ANSI C63.10	7.8	Evaluation of frequency-hopping device parameters
☒ ANSI C63.10	7.8.4	Time of occupancy (dwell time)

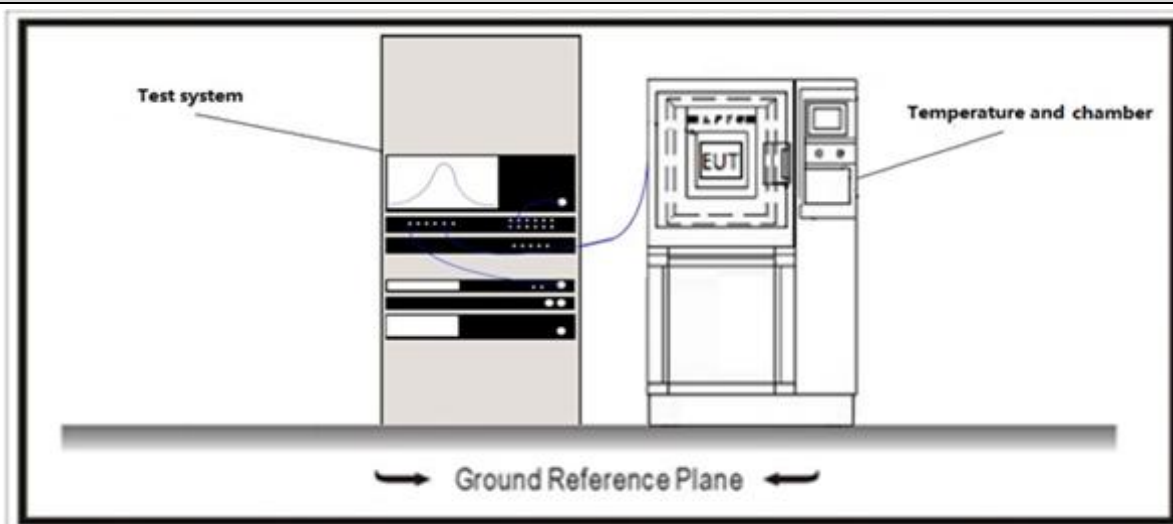
4.5 Number of hopping Frequencies

VERDICT: PASS

4.5.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.247(a);
☒	For frequency hopping systems operating in the 2400-2483.5 MHz band shall use at least 15 hopping frequencies.
☐	For frequency hopping systems operating in 902-928 MHz band, if the 20 dB bandwidth of the hopping channel is less than 250 kHz, shall use at least 50 hopping frequencies.
☐	For frequency hopping systems operating in 902-928 MHz band, if the 20 dB bandwidth of the hopping channel is higher than 250 kHz, shall use at least 25 hopping frequencies.
☐	For frequency hopping systems operating in the 5725-5850 MHz band shall use at least 75 hopping frequencies.

4.5.2 Test Setup



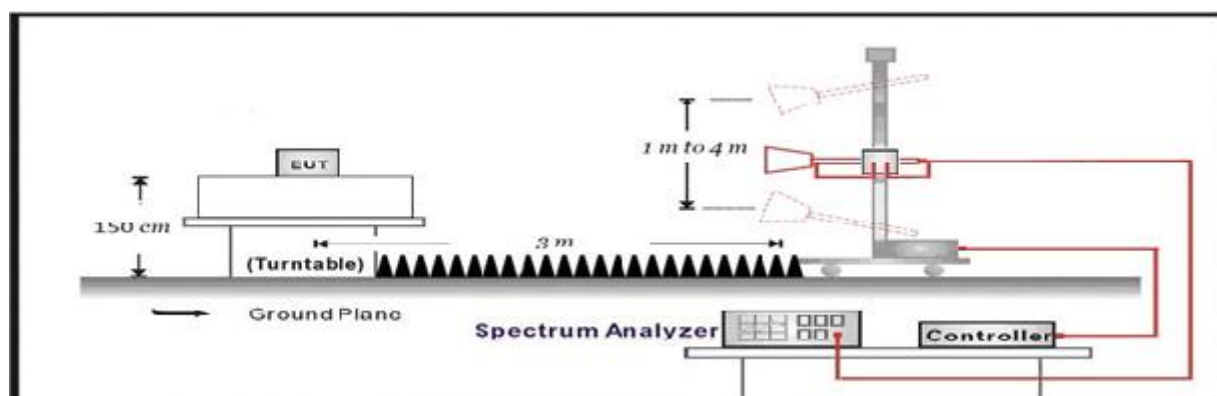
4.5.3 Test Procedure

References Rule	Chapter	Description
☒ ANSI C63.10	7.8.	Evaluation of frequency-hopping device parameters
☒ ANSI C63.10	7.8.3	Number of Hopping Frequencies

4.6 Band edge measurements**VERDICT: PASS****4.6.1 Limit**

Standard		FCC Part 15 Subpart C Paragraph 15.247(d) , 15.209;		
Frequency bands (MHz)	Detector	Limit (dB μ V/m)	RBW (MHz)	Distance (m)
2310-2390	PK	74	1	3
2483.5-2500	AV	54	1	3

Note: The field strength of emissions appearing within these frequency bands shall not exceed the limits.

4.6.2 Test Setup**4.6.3 Test Procedure**

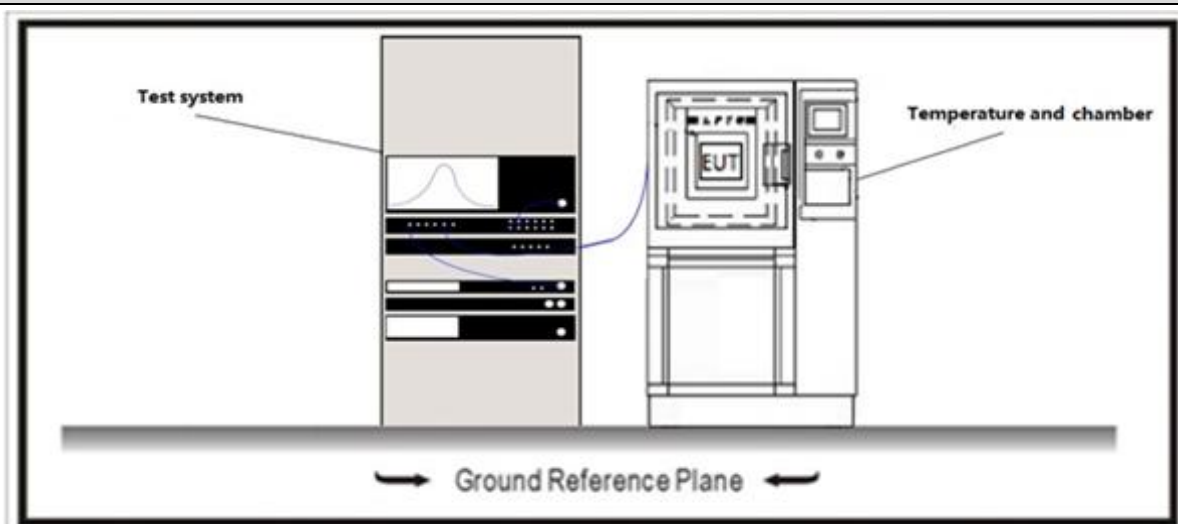
Test Method			
	References Rule	Chapter	Description
☐	DA 00-705	N/A	duty cycle correction factor
☒	ANSI C63.10	6.10	Band-edge testing
☒	ANSI C63.10	6.10.5	Restricted-band band-edge measurements
☐	ANSI C63.10	6.10.6	Marker-delta method
☐	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
☐	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
☐	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz

4.7 Conducted Spurious Emission**VERDICT: PASS****4.7.1 Limit**

Standard	FCC Part 15 Subpart C Paragraph 15.247(d);	
RF Output power (Detection methods)	Limit(dB)	
RF Output power(Average detector)	30dBc(Note1)	
RF Output power(PK detector)	20dBc(Note2)	

Note 1: If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc).

Note 2: If the maximum peak conducted output power procedure was used, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).

4.7.2 Test Setup**4.7.3 Test Procedure**

References Rule		Chapter	Description
☒	ANSI C63.10	7.8.7	Conducted spurious emissions test methodology
☒	ANSI C63.10	7.8.7.1	General considerations
☒	ANSI C63.10	7.8.7.2	Band-edges

4.8 Emissions in Restricted Bands**VERDICT: PASS****4.8.1 Limit****Standard** FCC Part 15 Subpart C Paragraph 15.205

Restricted Bands of operation

Frequency(MHz)	Frequency(MHz)	Frequency(MHz)	Frequency(GHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
0.495 – 0.505	16.69475 – 16.69525	608 – 614	5.35 – 5.46
2.1735 – 2.1905	16.80425 – 16.80475	960 – 1240	7.25 – 7.75
4.125 – 4.128	25.5 – 25.67	1300 – 1427	8.025 – 8.5
4.17725 – 4.17775	37.5 – 38.25	1435 – 1626.5	9.0 – 9.2
4.20725 – 4.20775	73 – 74.6	1645.5 – 1646.5	9.3 – 9.5
6.215 – 6.218	74.8 – 75.2	1660 – 1710	10.6 – 12.7
6.26775 – 6.26825	108 – 121.94	1718.8 – 1722.2	13.25 – 13.4
6.31175 – 6.31225	123 – 138	2200 – 2300	14.47 – 14.5
8.291 – 8.294	149.9 – 150.05	2310 – 2390	15.35 – 16.2
8.362 – 8.366	156.52475 – 156.52525	2483.5 – 2500	17.7 – 21.4
8.37625 – 8.38675	156.7 – 156.9	2690 – 2900	22.01 – 23.12
8.81425 – 8.81475	162.0125 – 167.17	3260 – 3267	23.6 – 24.0
12.29 – 12.293	167.72 – 173.2	3332 – 3339	31.2 – 31.8
12.51975 – 12.52025	240 – 285	3345.8 – 3358	36.43 – 36.5
12.57675 – 12.57725	322 – 335.4	3600 – 4400	
13.36 – 13.41			

Restricted Band Emissions Limit

FCC Part 15 Subpart C Paragraph 15.209

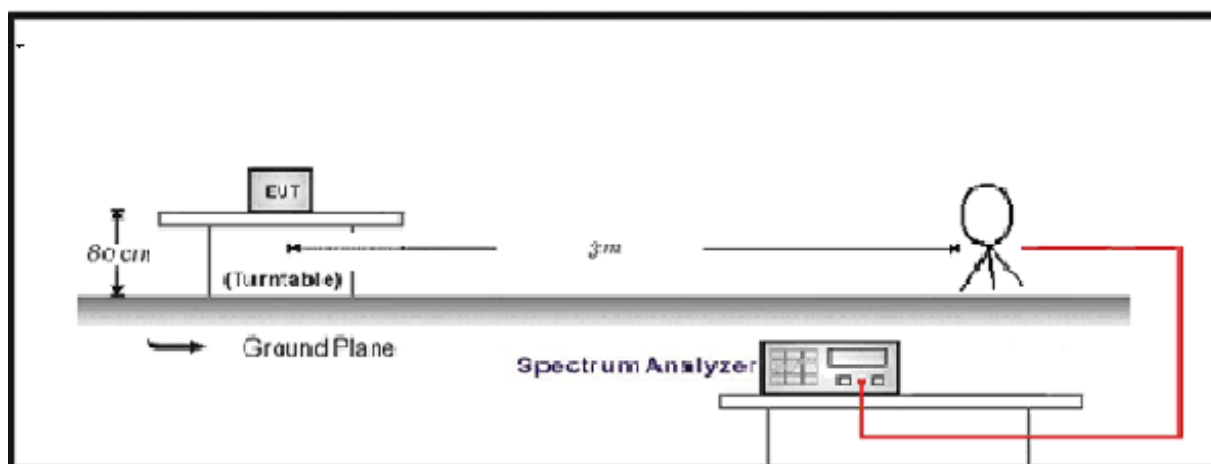
Frequency(MHz)	Field strength(μV/m)	Field strength (dBμV/m)	Measurement distance(m)
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300 _(Note 1)
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30 _(Note 1)
1.705 - 30	30	29.5	30 _(Note 1)
30 - 88	100	40	3 _(Note 2)
88 - 216	150	43.5	3 _(Note 2)
216 - 960	200	46	3 _(Note 2)
Above 960	500	54	3 _(Note 2)

Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

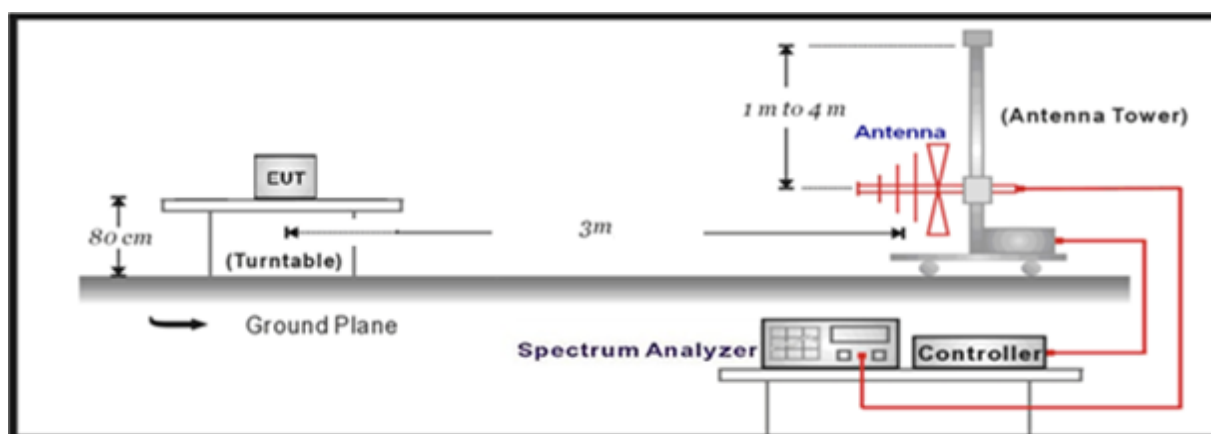
Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

4.8.2 Test Setup

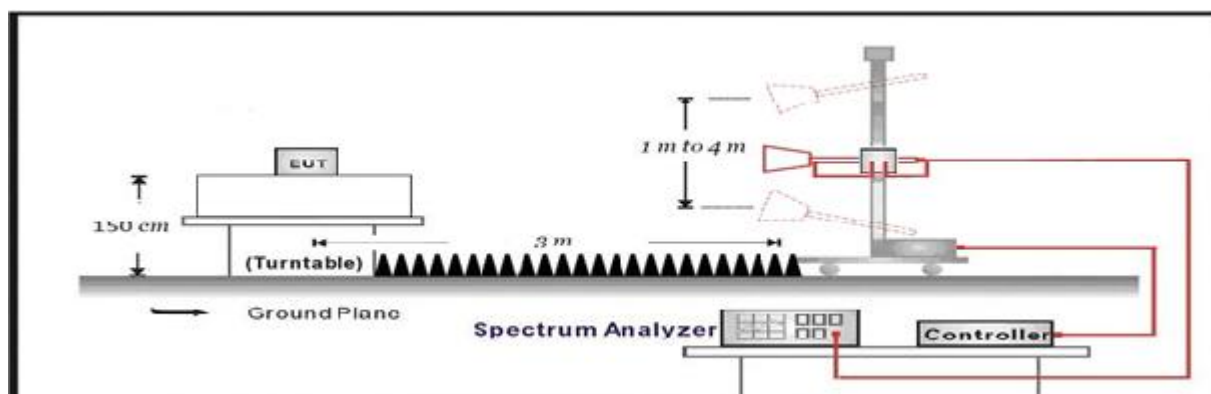
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



4.8.3 Test Procedure

	References Rule		Chapter	Description
☒	ANSI C63.10		11.12	Emissions in restricted frequency bands
	☒	ANSI C63.10	11.12.1	Radiated emission measurements
	☒	ANSI C63.10	11.12.2.7	Radiated spurious emission test
	☒	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
	☒	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
	☒	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz

4.9 AC Power Line Conducted Emission

VERDICT: N/A

4.9.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.207 ;	
Frequency range [MHz]	Limit: QP [dB(μV) ¹⁾]	Limit: AV [dB(μV) ¹⁾]
0,15 - 0,50	66 - 56 ²⁾	56 - 46 ²⁾
0,50 - 5,0	56	46
5,0 - 30	60	50

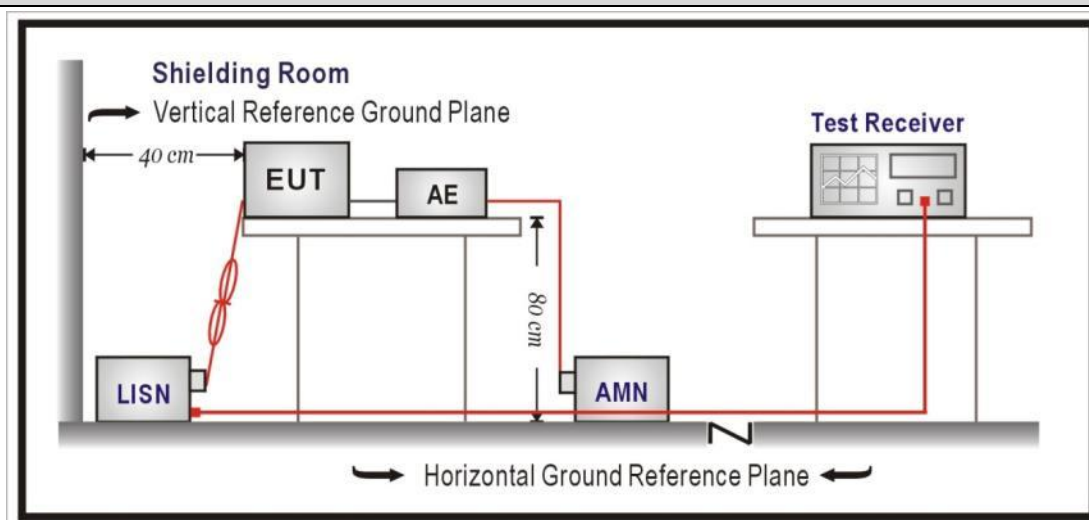
¹⁾ At the transition frequency, the lower limit applies.

²⁾ The limit decreases linearly with the logarithm of the frequency.

NOTE 1: The exclusion band for transmitters shall be considered for transmitters operating at frequencies below 30 MHz.

NOTE 2: Where the AC output port is directly connected (or via a circuit breaker) to the AC power input port of the EUT the AC power output port need not to be tested.

4.9.2 Test Setup



4.9.3 Test Procedure

	References Rule	Chapter	Item
☐	ANSI C63.10	6.2	Standard test method for ac power-line conducted emissions from unlicensed wireless devices

4.10 Antenna Requirement**VERDICT: PASS****4.10.1 Limit****Standard**

FCC Part 15 Subpart C Paragraph 15.247(d) , 15.209

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 shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

4.10.2 Antenna Connector Construction:

- | | |
|-------------------------------------|--|
| ☐ | The use of a permanently attached antenna |
| ☒ | The antenna use of a unique coupling to the intentional radiator |
| ☐ | The use of a nonstandard antenna jack or electrical connector |

Please refer to the attached document "Internal Photograph" to show the antenna connector.

5 TEST SETUP PHOTO AND EUT PHOTO

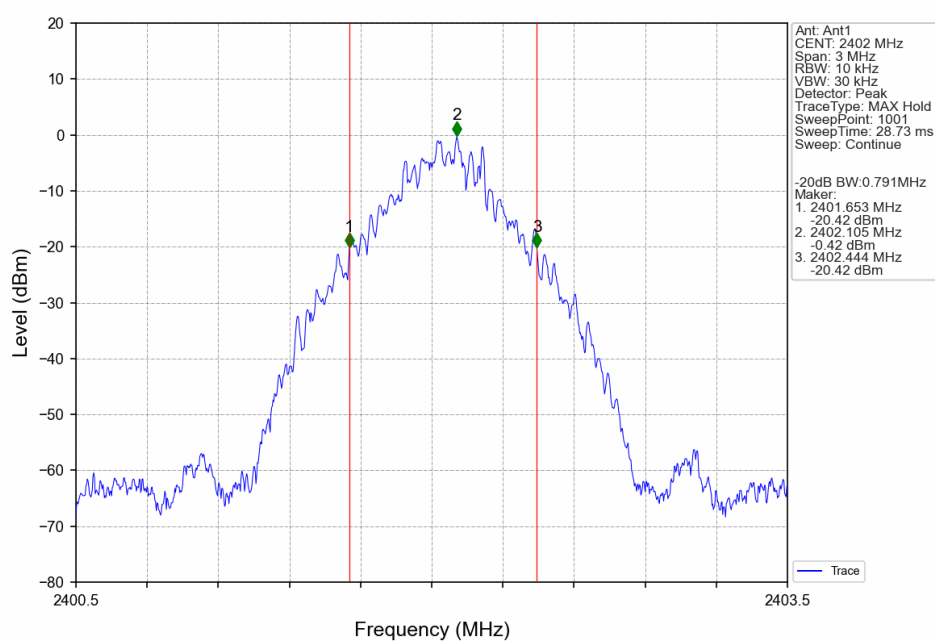
Remark: The test setup photo and EUT Photo please see appendix.

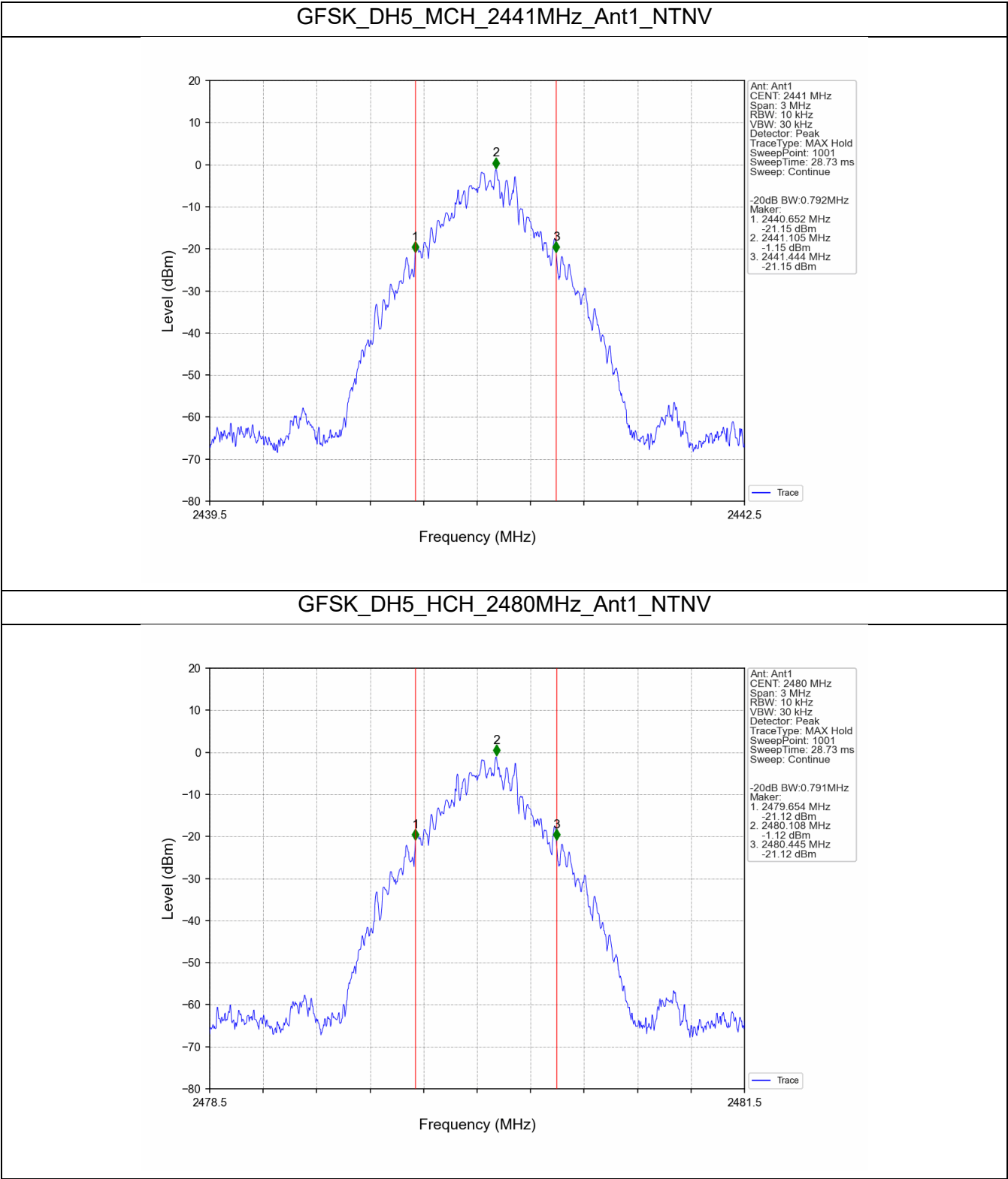
6 TEST RESULT

Appendix A: 20dB Emission Bandwidth

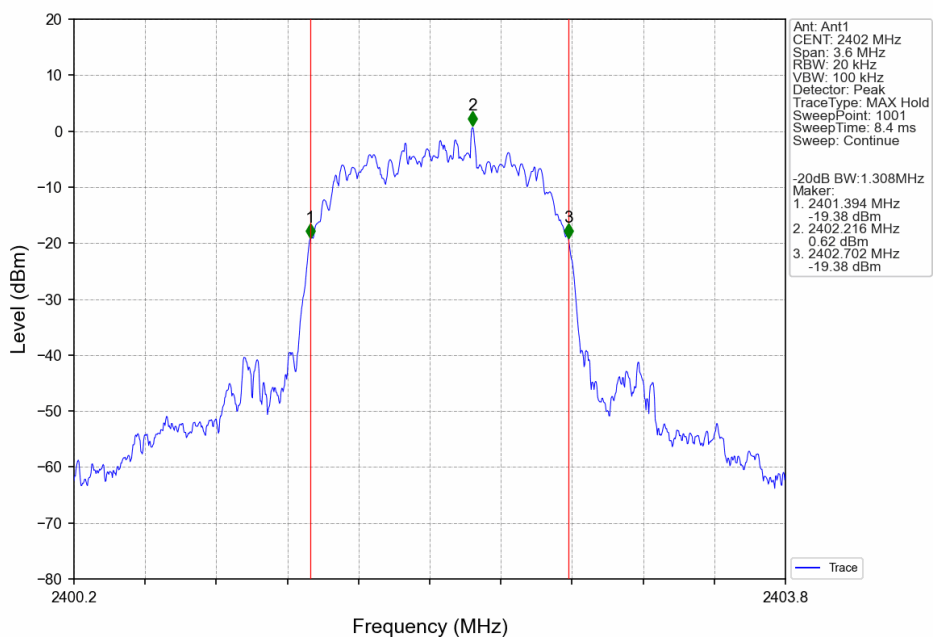
Mode	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
				Result	Limit	
GFSK	2402	DH5	1	0.791	/	Pass
	2441	DH5	1	0.792	/	Pass
	2480	DH5	1	0.791	/	Pass
Pi/4DQPSK	2402	2DH5	1	1.308	/	Pass
	2441	2DH5	1	1.323	/	Pass
	2480	2DH5	1	1.301	/	Pass
8DPSK	2402	3DH5	1	1.281	/	Pass
	2441	3DH5	1	1.281	/	Pass
	2480	3DH5	1	1.287	/	Pass

GFSK_DH5_LCH_2402MHz_Ant1_NTNV

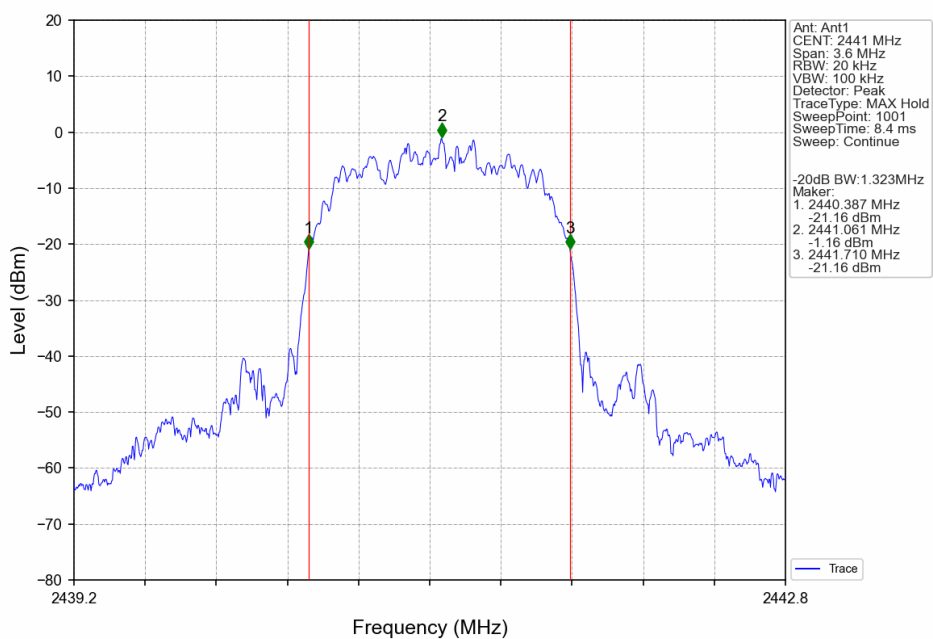


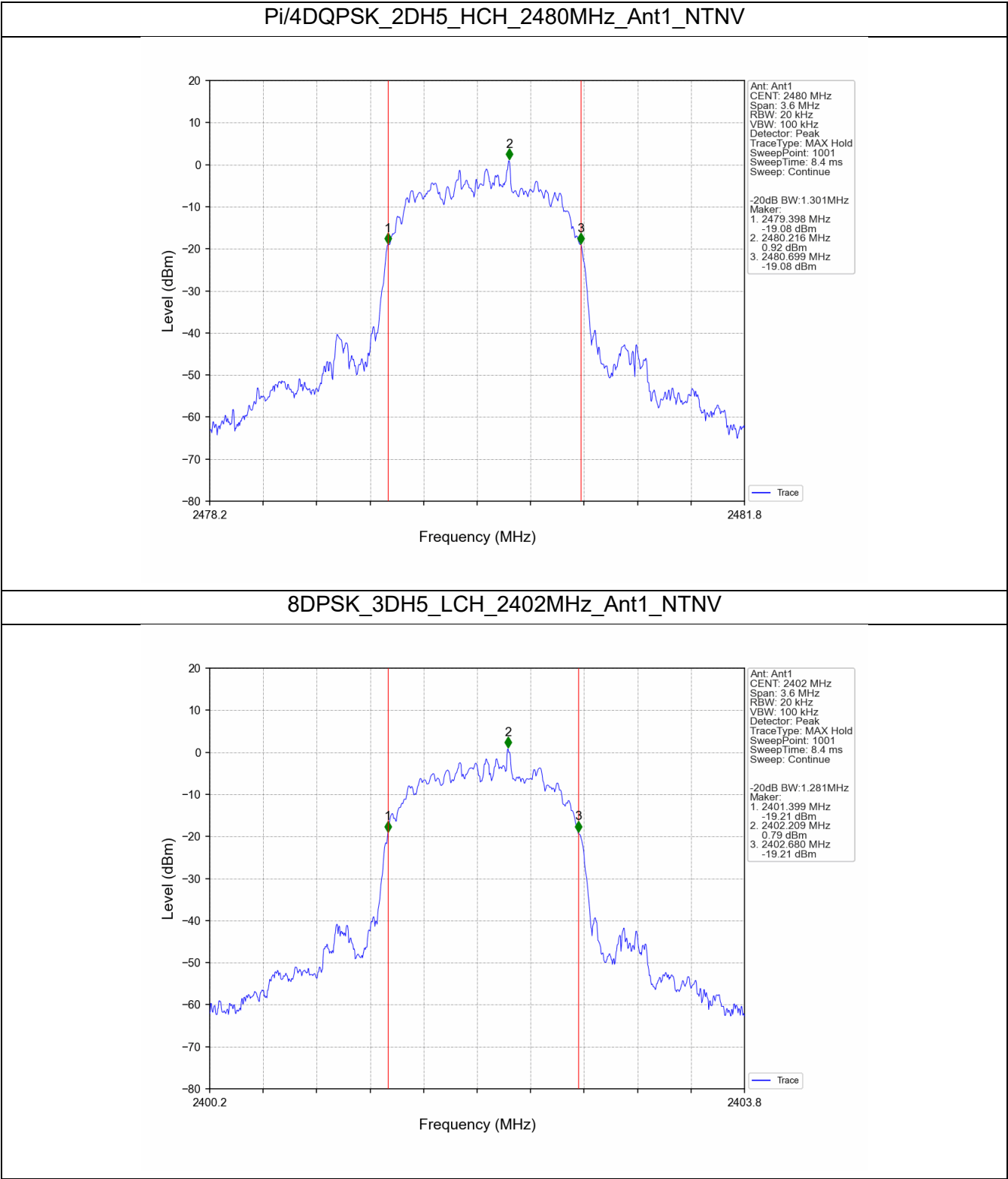


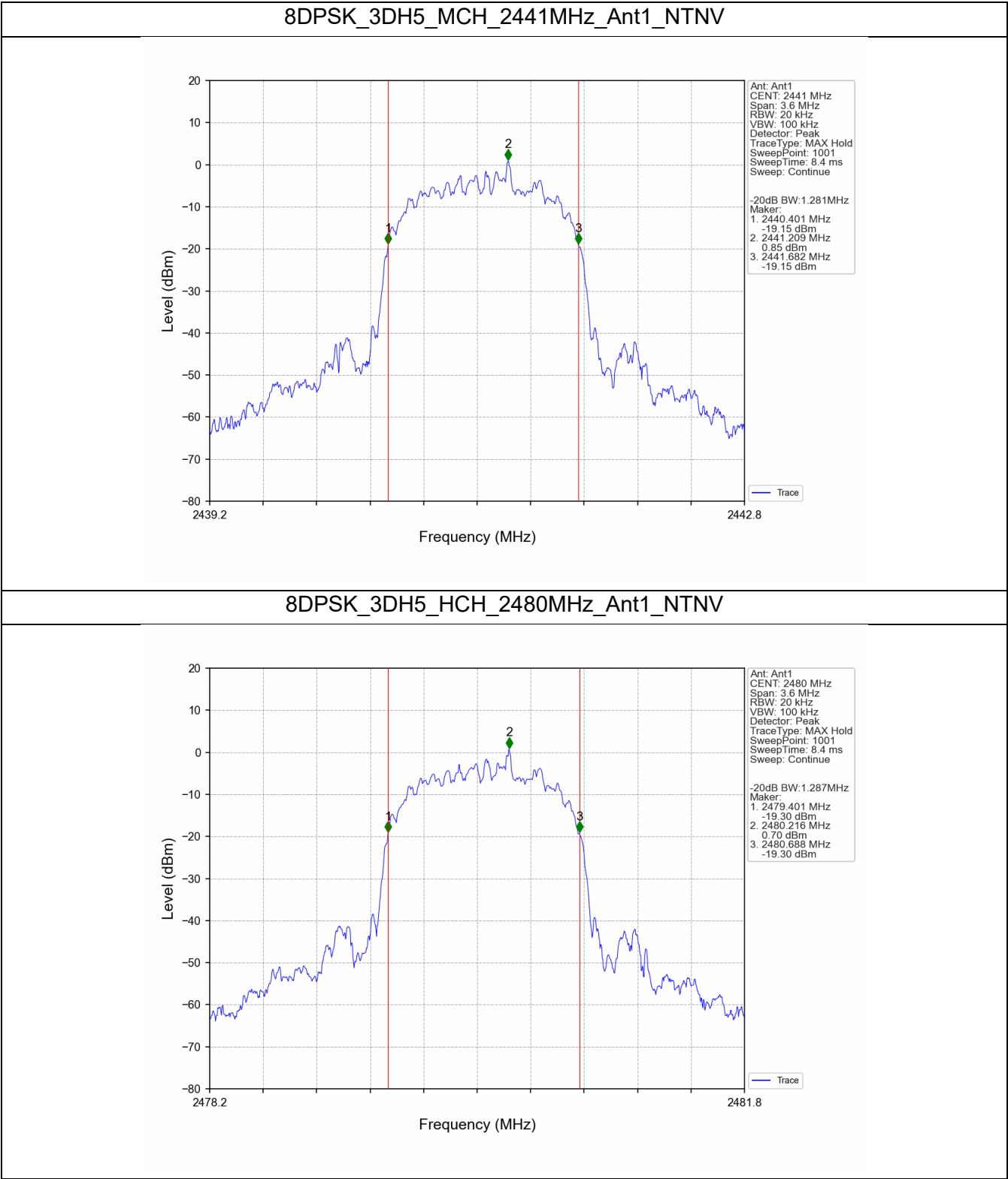
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV







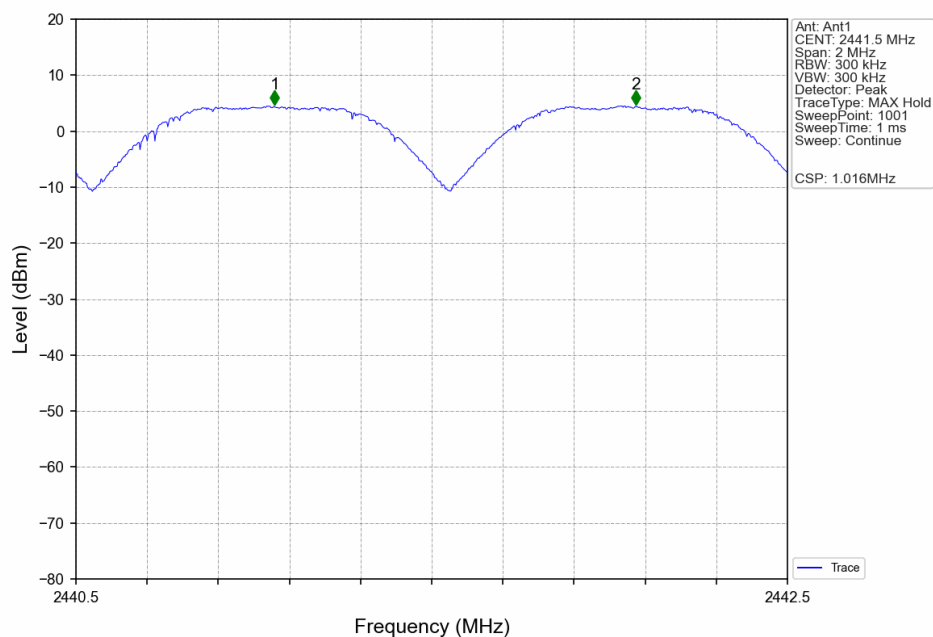
Appendix B: Maximum conducted output power

Test Mode	Frequency[MHz]	Conducted Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	2402	5.32	≤29.96	PASS
	2441	4.71	≤29.96	PASS
	2480	4.85	≤29.96	PASS
2DH5	2402	7.18	≤29.96	PASS
	2441	7.18	≤29.96	PASS
	2480	7.15	≤29.96	PASS
3DH5	2402	7.78	≤29.96	PASS
	2441	7.82	≤29.96	PASS
	2480	7.89	≤29.96	PASS
Note: Limit = 30dBm - (6.04dBi-6.0dBi)				

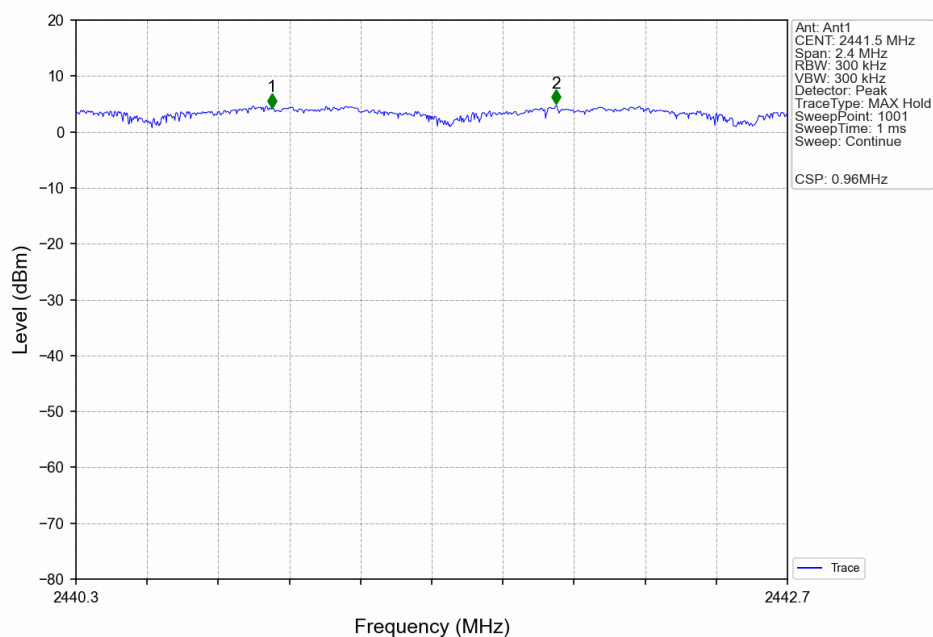
Appendix C: Carrier frequency separation

Mode	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	HOPP	DH5	1.016	0.792	≥ 0.792	Pass
Pi/4DQPSK	HOPP	2DH5	0.960	1.323	≥ 0.882	Pass
8DPSK	HOPP	3DH5	0.962	1.287	≥ 0.858	Pass

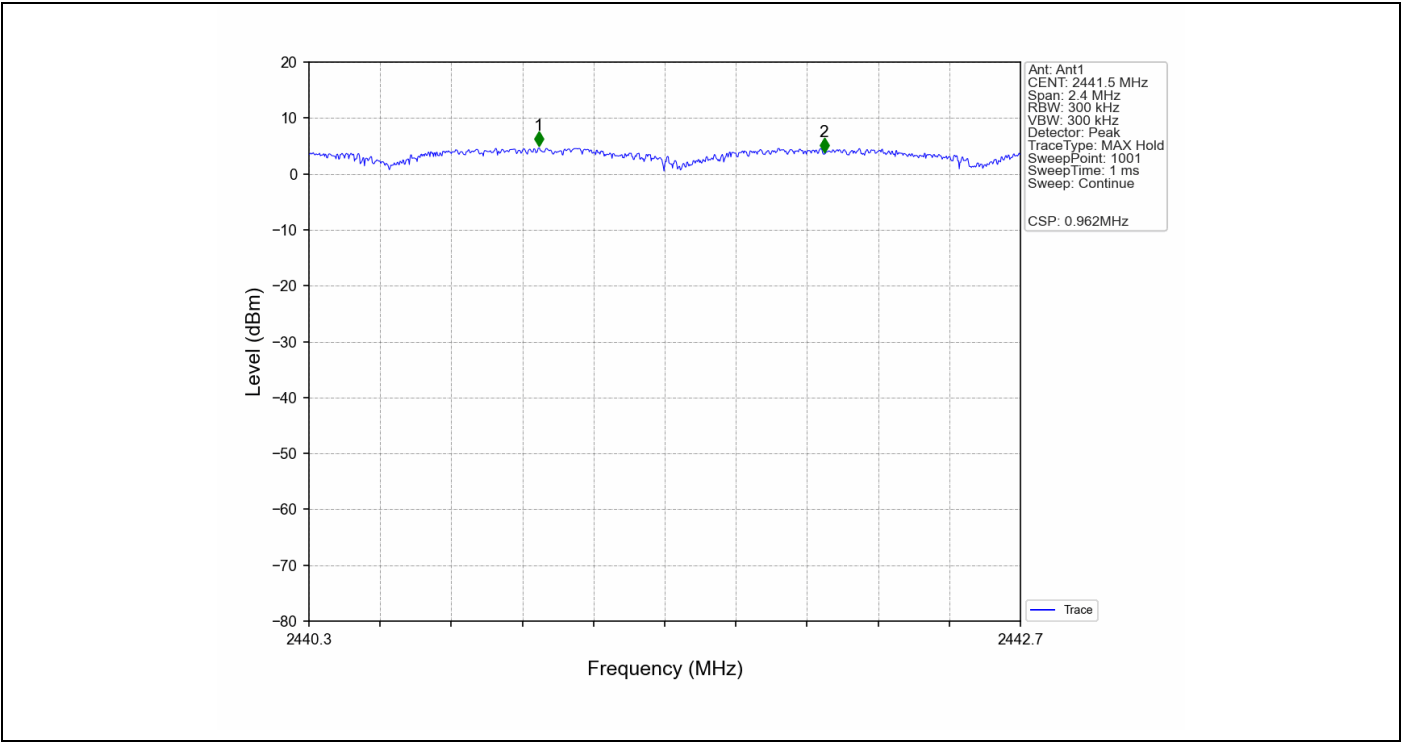
GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



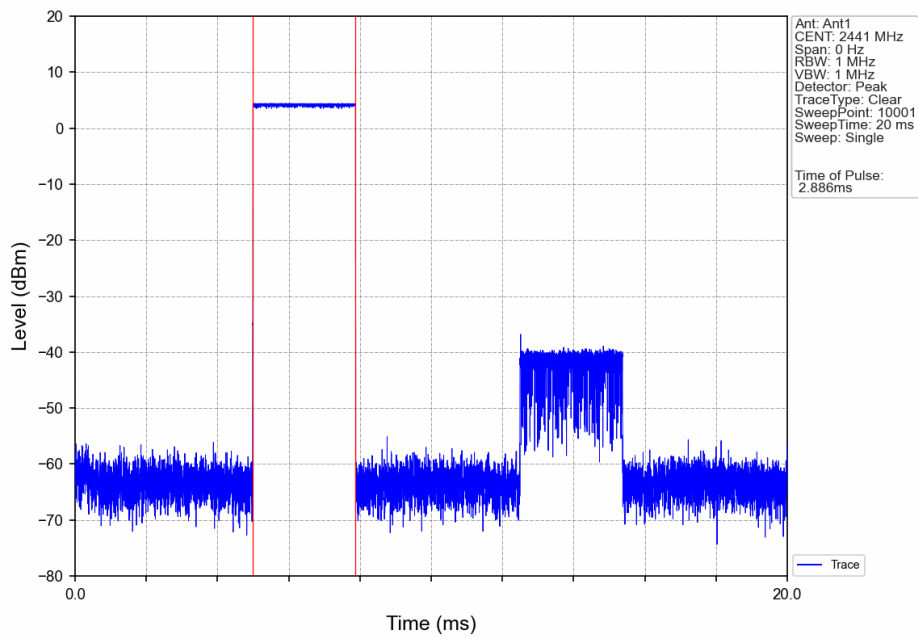
8DPSK_3DH5_HOPP_Ant1_NTNV



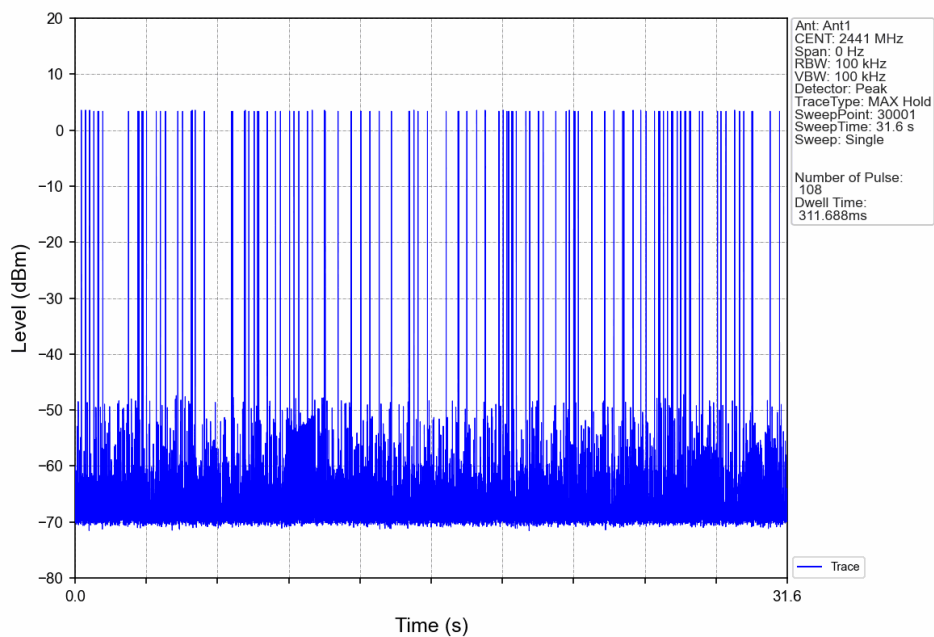
Appendix D: Time of occupancy

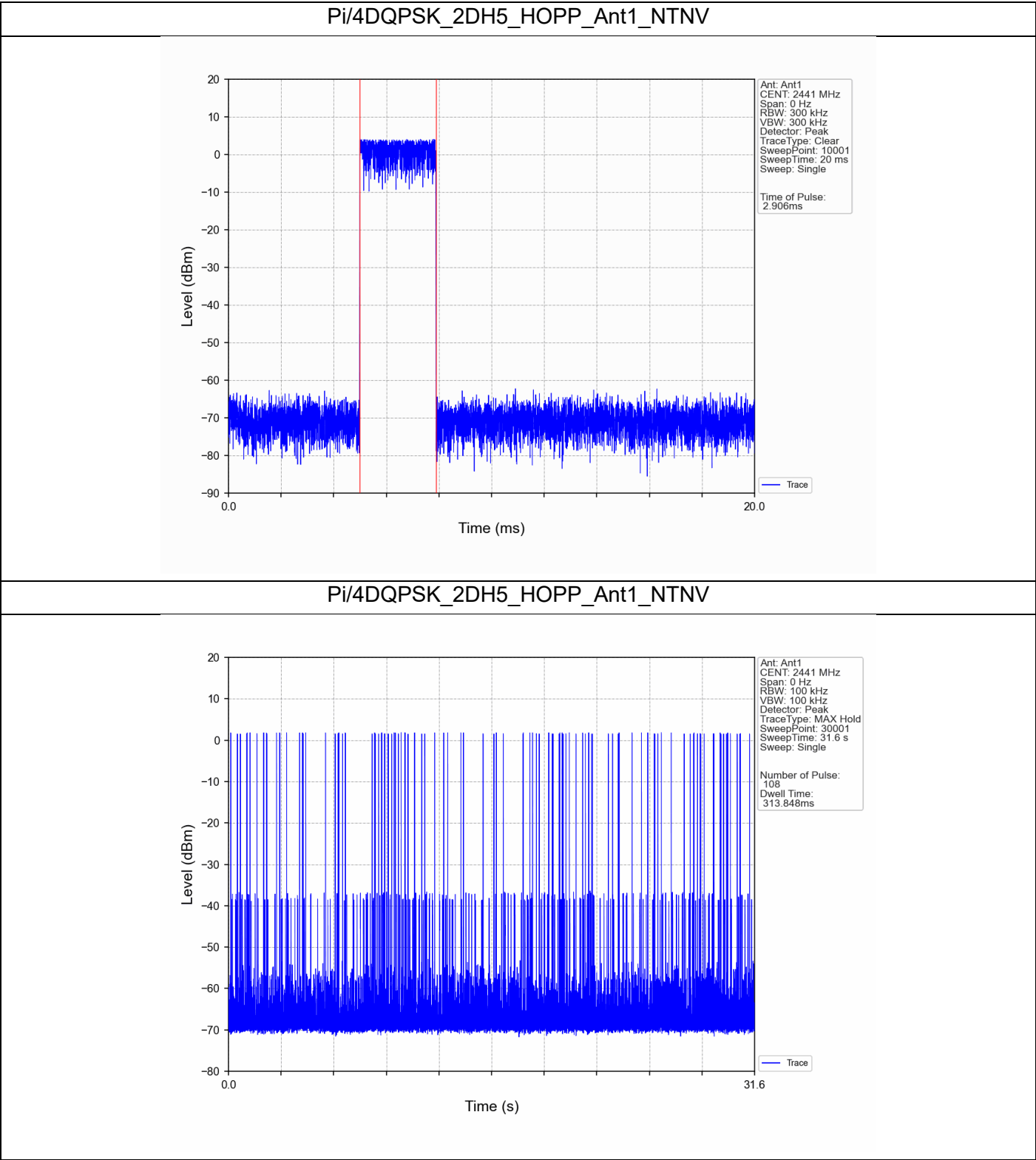
Mode	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	HOPP	DH5	2.886	31.600	108	311.688	<=400	Pass
Pi/4DQPSK	HOPP	2DH5	2.906	31.600	108	313.848	<=400	Pass
8DPSK	HOPP	3DH5	2.906	31.600	109	316.754	<=400	Pass

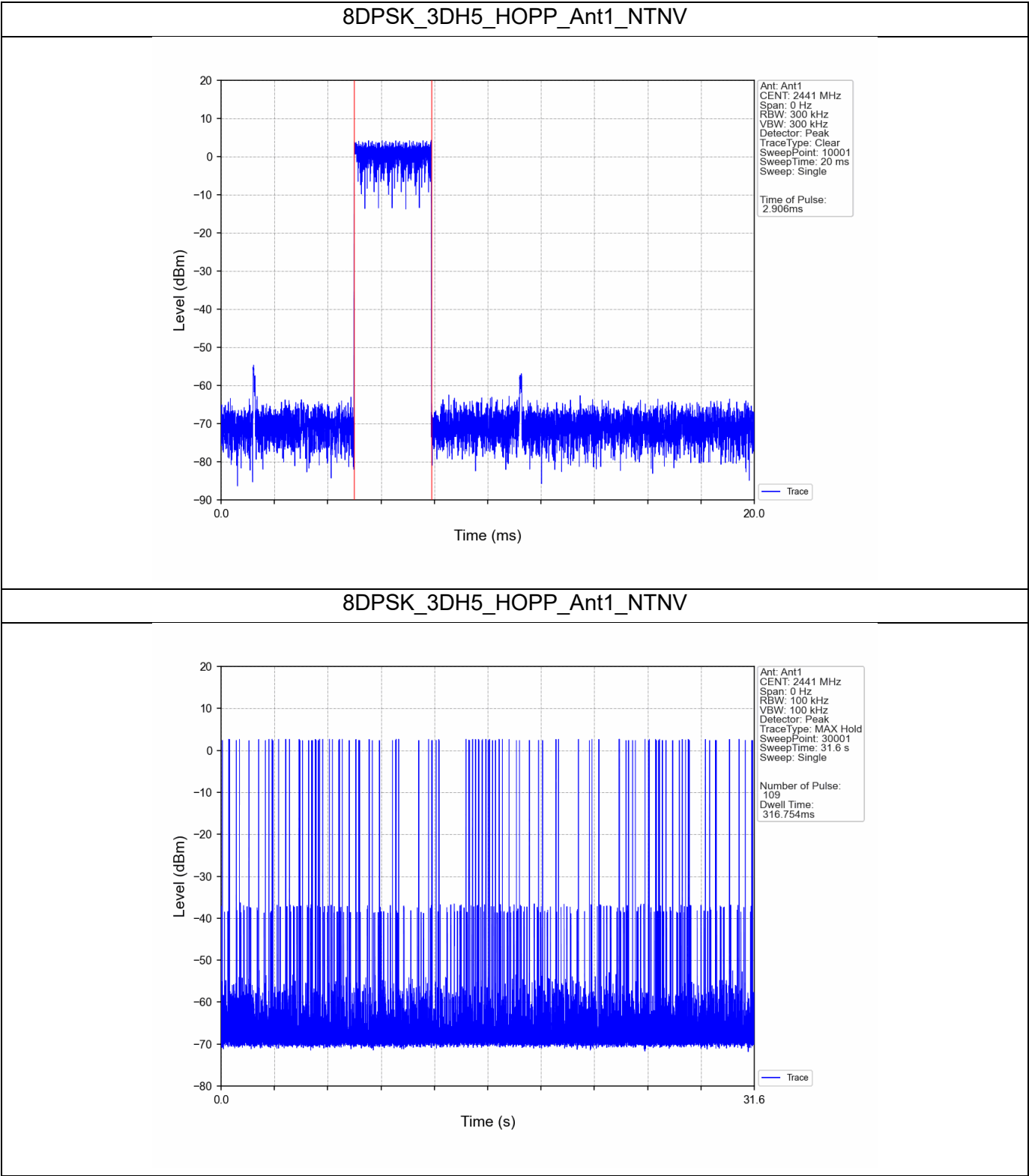
GFSK_DH5_HOPP_Ant1_NTNV



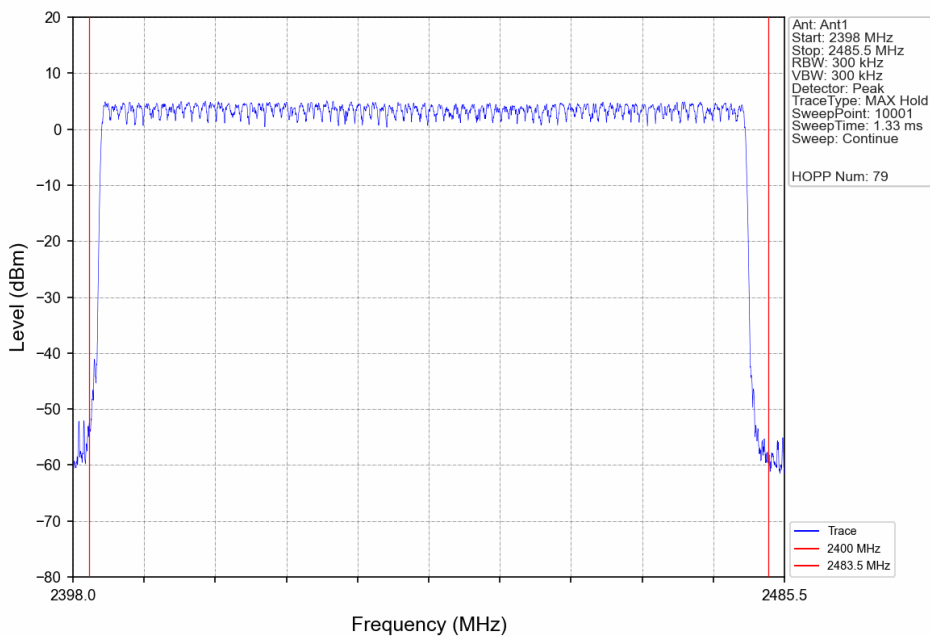
GFSK_DH5_HOPP_Ant1_NTNV







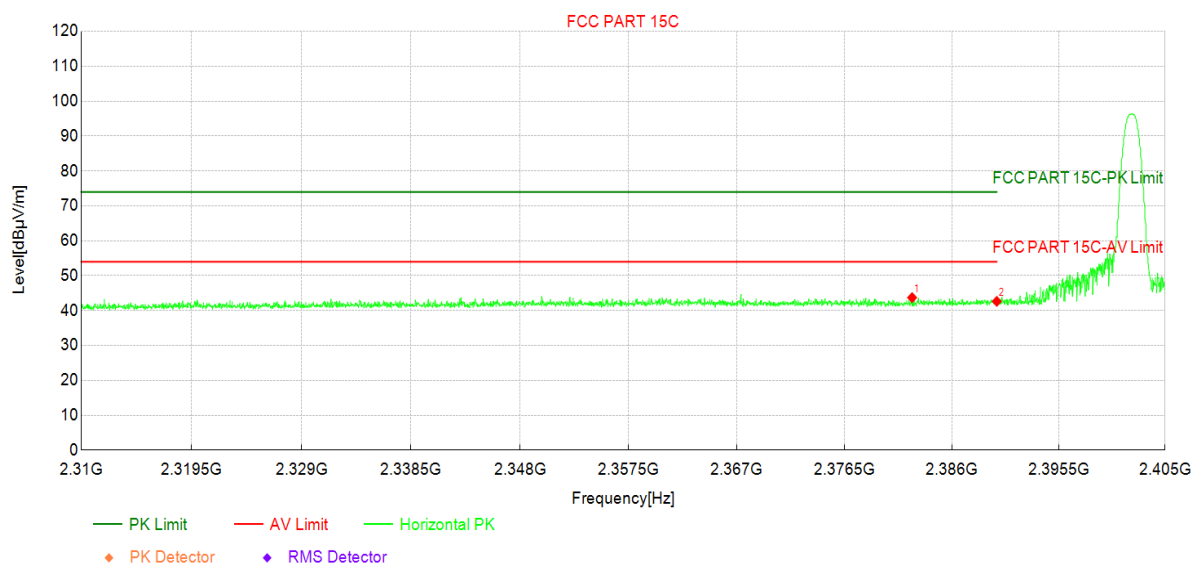
8DPSK_3DH5_HOPP_Ant1_NTNV



Appendix F: Band edge measurements

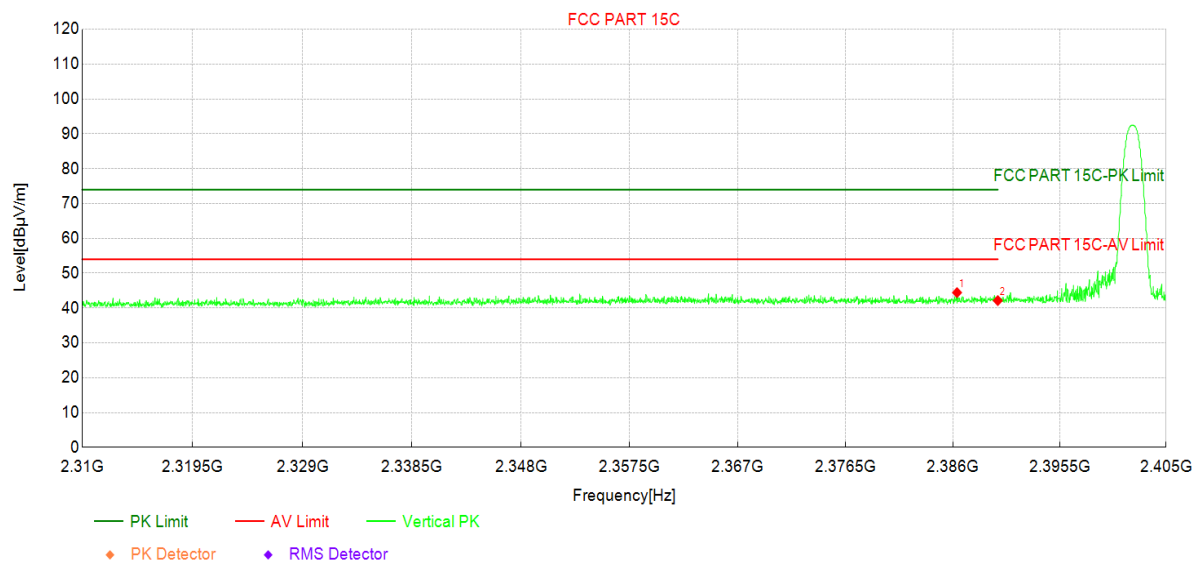
Transmit at 2402MHz by DH5

Test Graph

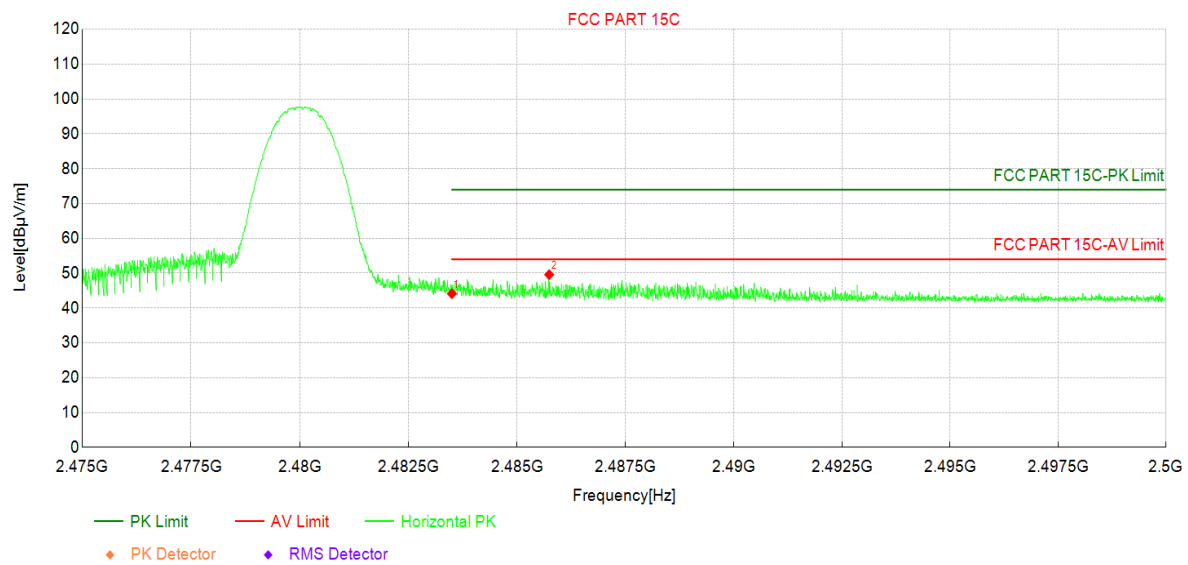


Data List

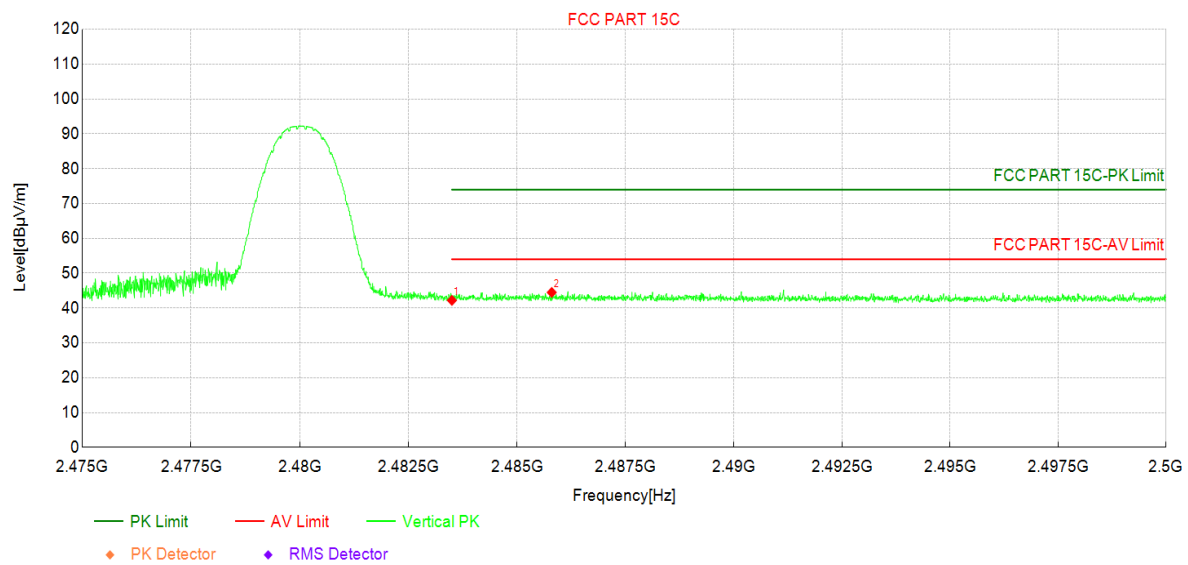
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2382.49	38.63	43.71	5.08	74.00	30.29	PK	Horizo	PASS
	2382.49	-	18.92	-	54.00	35.08	AV	Horizo	PASS
2	2390.00	37.49	42.63	5.14	74.00	31.37	PK	Horizo	PASS
	2390.00	-	17.84	-	54.00	36.16	AV	Horizo	PASS

Transmit at 2402MHz by DH5*Test Graph***Data List**

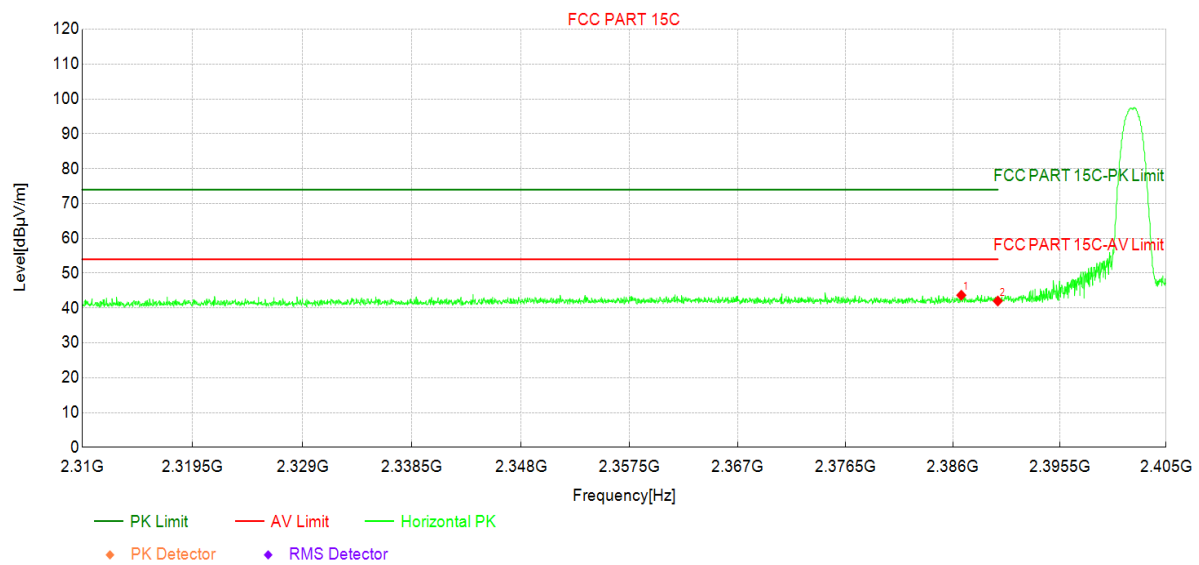
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2386.38	39.31	44.43	5.12	74.00	29.57	PK	Vertic	PASS
	2386.38	-	19.64	-	54.00	34.36	AV	Vertic	PASS
2	2390.00	37.00	42.14	5.14	74.00	31.86	PK	Vertic	PASS
	2390.00	-	17.35	-	54.00	36.65	AV	Vertic	PASS

Transmit at 2480MHz by DH5*Test Graph***Data List**

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	38.61	44.12	5.51	74.00	29.88	PK	Horizo	PASS
	2483.50	-	19.33	-	54.00	34.67	AV	Horizo	PASS
2	2485.74	44.06	49.59	5.53	74.00	24.41	PK	Horizo	PASS
	2485.74	-	24.80	-	54.00	29.20	AV	Horizo	PASS

Transmit at 2480MHz by DH5*Test Graph***Data List**

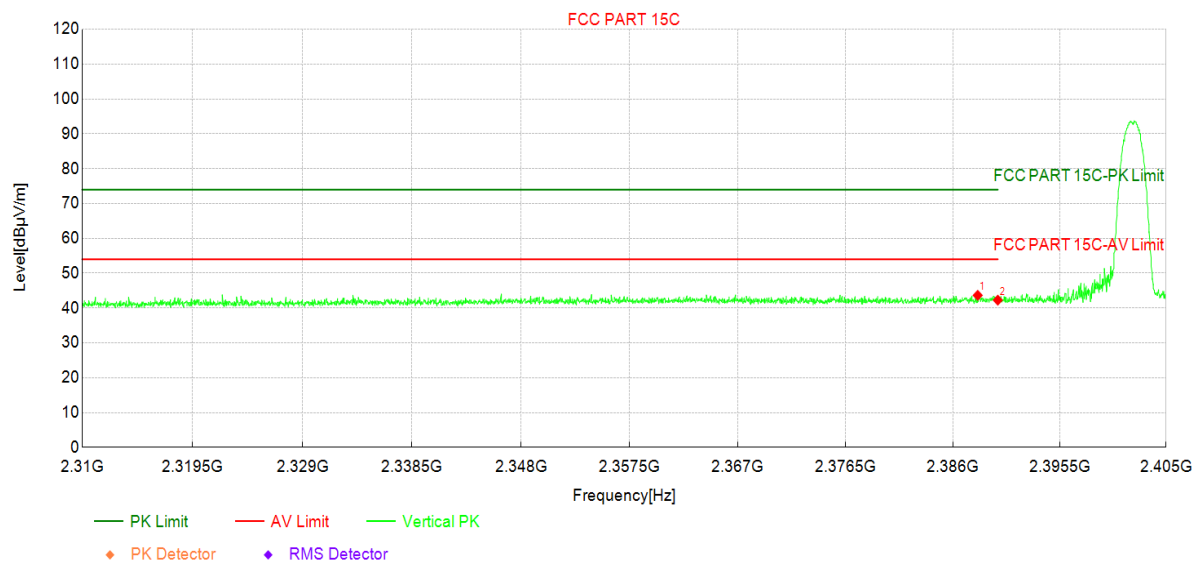
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	36.69	42.20	5.51	74.00	31.80	PK	Vertic	PASS
	2483.50	-	17.41	-	54.00	36.59	AV	Vertic	PASS
2	2485.80	38.95	44.48	5.53	74.00	29.52	PK	Vertic	PASS
	2485.80	-	19.69	-	54.00	34.31	AV	Vertic	PASS

Transmit at 2402MHz by 2DH5**Test Graph****Data List**

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2386.76	38.56	43.68	5.12	74.00	30.32	PK	Horizo	PASS
	2386.76	-	18.89	-	54.00	35.11	AV	Horizo	PASS
2	2390.00	36.87	42.01	5.14	74.00	31.99	PK	Horizo	PASS
	2390.00	-	17.22	-	54.00	36.78	AV	Horizo	PASS

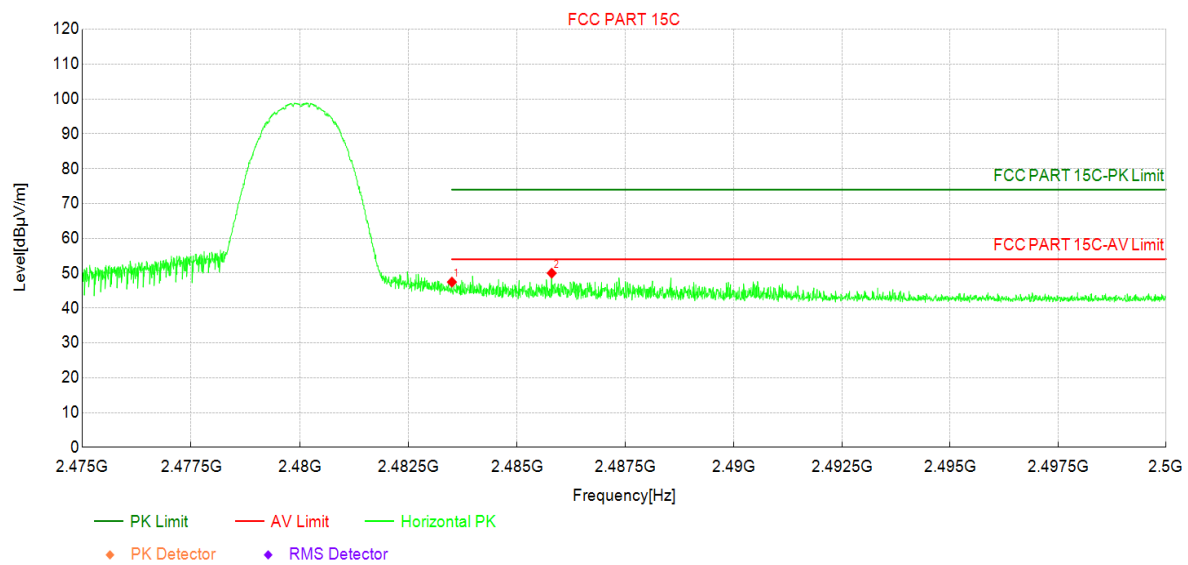
Transmit at 2402MHz by 2DH5

Test Graph



Data List

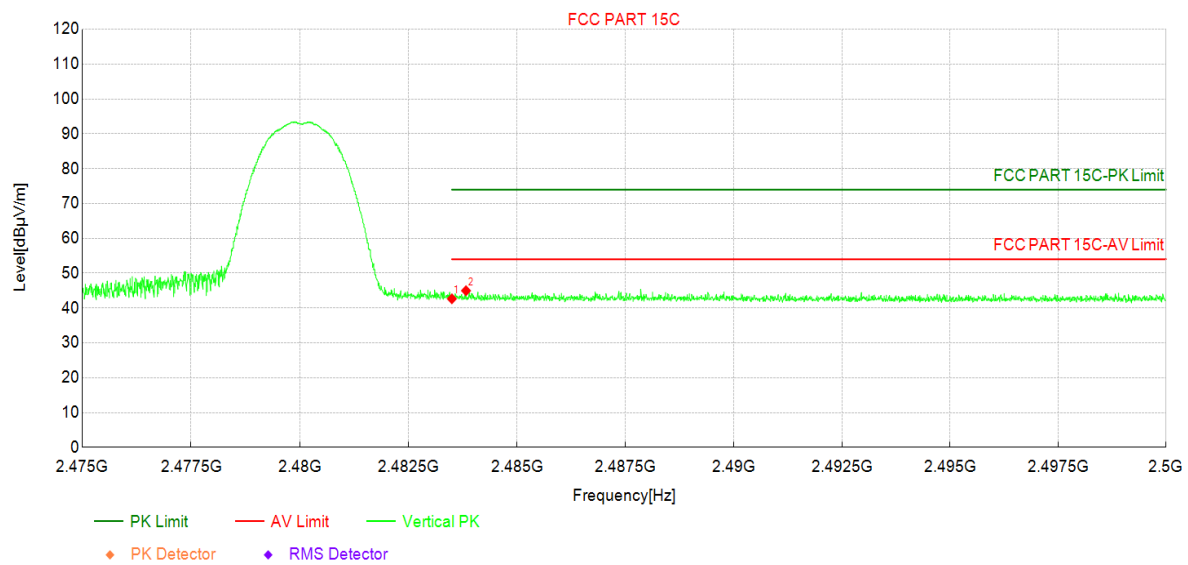
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2388.22	38.52	43.64	5.12	74.00	30.36	PK	Vertic	PASS
	2388.22	-	18.85	-	54.00	35.15	AV	Vertic	PASS
2	2390.00	37.12	42.26	5.14	74.00	31.74	PK	Vertic	PASS
	2390.00	-	17.47	-	54.00	36.53	AV	Vertic	PASS

Transmit at 2480MHz by 2DH5*Test Graph***Data List**

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	41.94	47.45	5.51	74.00	26.55	PK	Horizo	PASS
	2483.50	-	22.66	-	54.00	31.34	AV	Horizo	PASS
2	2485.80	44.47	50.00	5.53	74.00	24.00	PK	Horizo	PASS
	2485.80	-	25.21	-	54.00	28.79	AV	Horizo	PASS

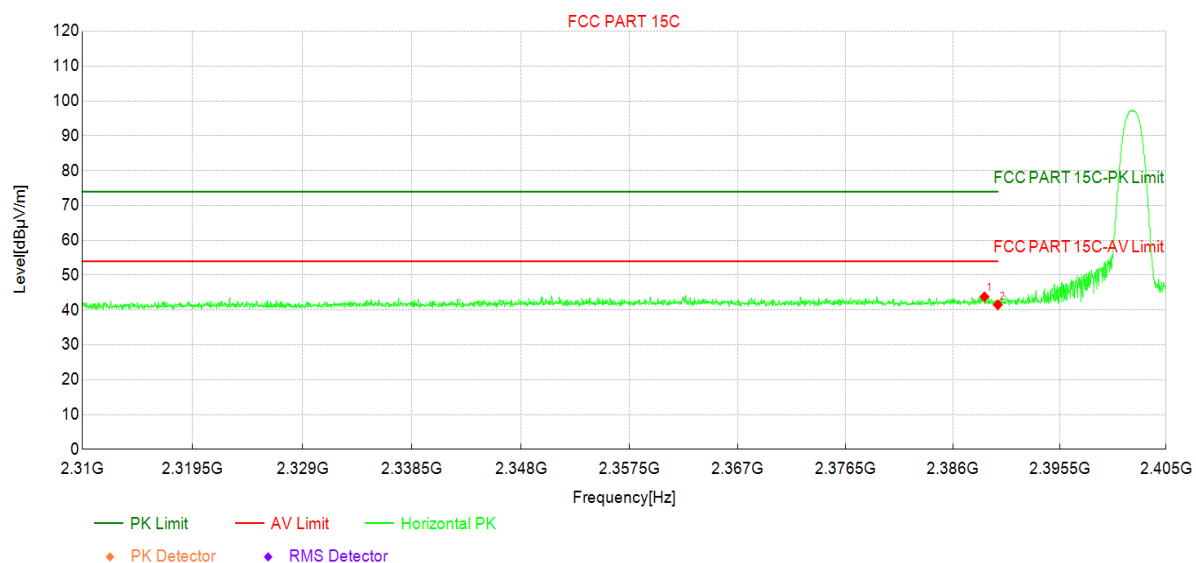
Transmit at 2480MHz by 2DH5

Test Graph



Data List

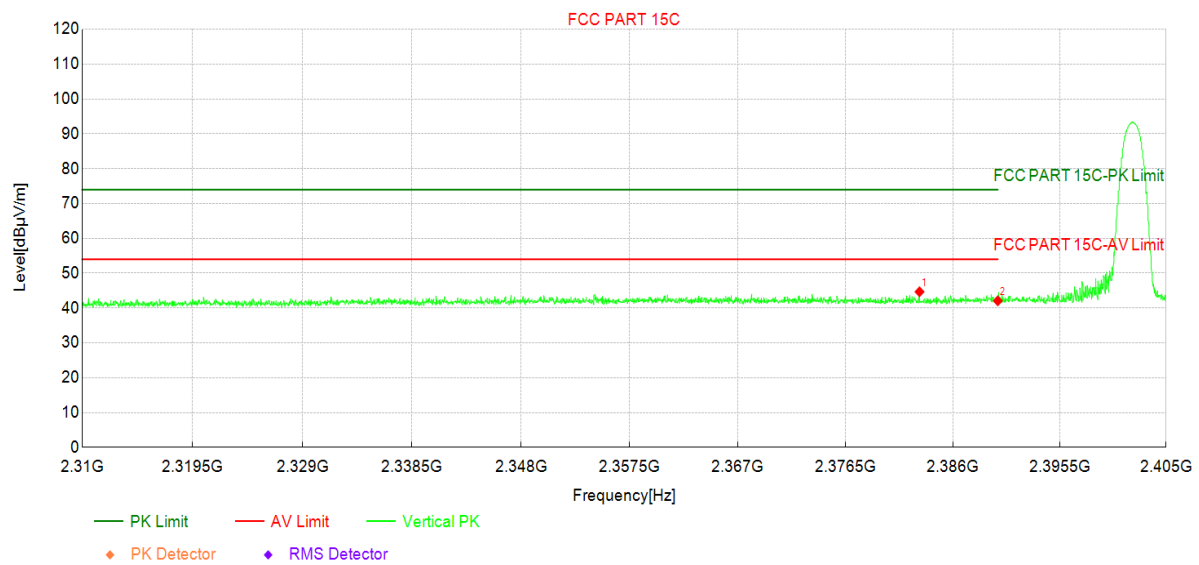
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	37.14	42.65	5.51	74.00	31.35	PK	Vertic	PASS
	2483.50	-	17.86	-	54.00	36.14	AV	Vertic	PASS
2	2483.83	39.46	44.97	5.51	74.00	29.03	PK	Vertic	PASS
	2483.83	-	20.18	-	54.00	33.82	AV	Vertic	PASS

Transmit at 2402MHz by 3DH5**Test Graph****Data List**

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2388.82	38.66	43.79	5.13	74.00	30.21	PK	Horizo	PASS
	2388.82	-	19.00	-	54.00	35.00	AV	Horizo	PASS
2	2390.00	36.36	41.50	5.14	74.00	32.50	PK	Horizo	PASS
	2390.00	-	16.71	-	54.00	37.29	AV	Horizo	PASS

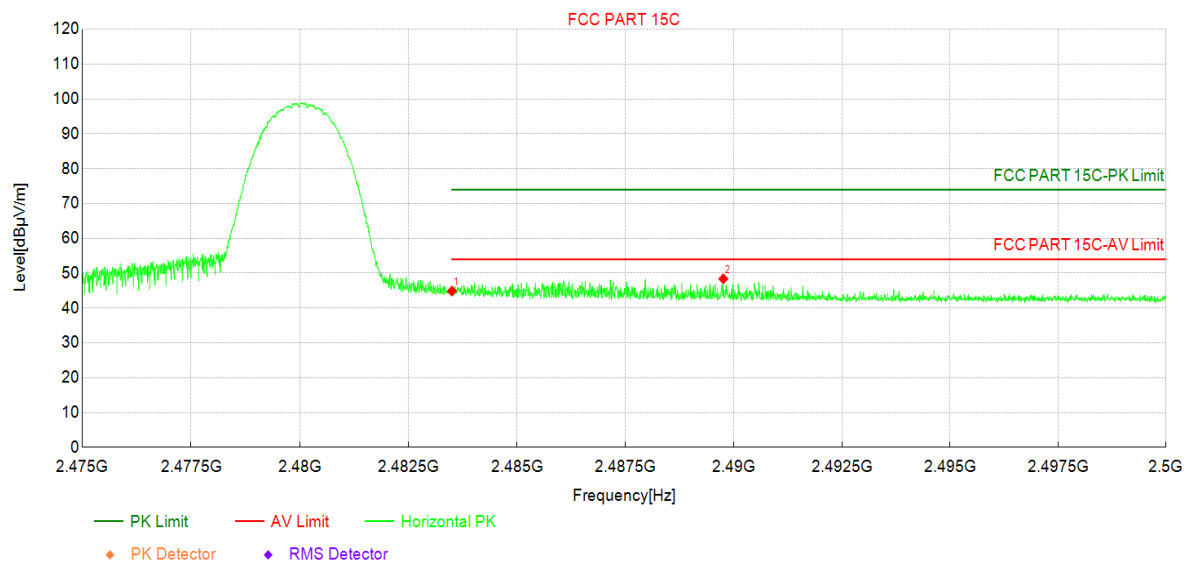
Transmit at 2402MHz by 3DH5

Test Graph



Data List

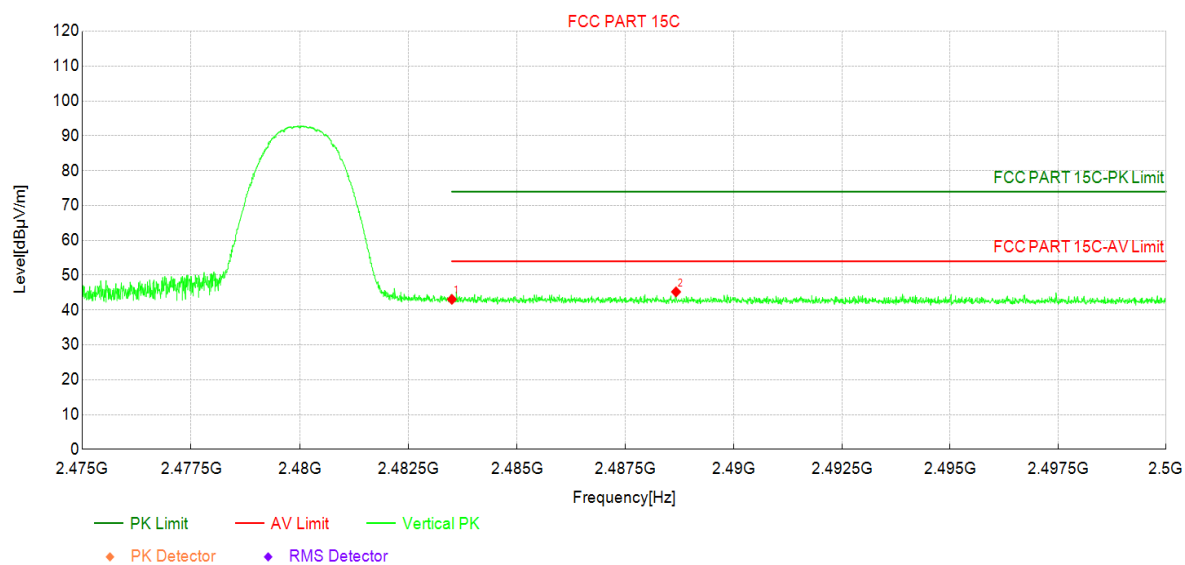
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2383.06	39.59	44.67	5.08	74.00	29.33	PK	Vertic	PASS
	2383.06	-	19.88	-	54.00	34.12	AV	Vertic	PASS
2	2390.00	36.92	42.06	5.14	74.00	31.94	PK	Vertic	PASS
	2390.00	-	17.27	-	54.00	36.73	AV	Vertic	PASS

Transmit at 2480MHz by 3DH5*Test Graph***Data List**

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	39.37	44.88	5.51	74.00	29.12	PK	Horizo	PASS
	2483.50	-	20.09	-	54.00	33.91	AV	Horizo	PASS
2	2489.76	42.84	48.38	5.54	74.00	25.62	PK	Horizo	PASS
	2489.76	-	23.59	-	54.00	30.41	AV	Horizo	PASS

Transmit at 2480MHz by 3DH5

Test Graph



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	37.55	43.06	5.51	74.00	30.94	PK	Vertic	PASS
	2483.50	-	18.27	-	54.00	35.73	AV	Vertic	PASS
2	2488.67	39.68	45.21	5.53	74.00	28.79	PK	Vertic	PASS
	2488.67	-	20.42	-	54.00	33.58	AV	Vertic	PASS

Note:

1.Level=Reading+Factor .

2. Margin=Limit-Level.

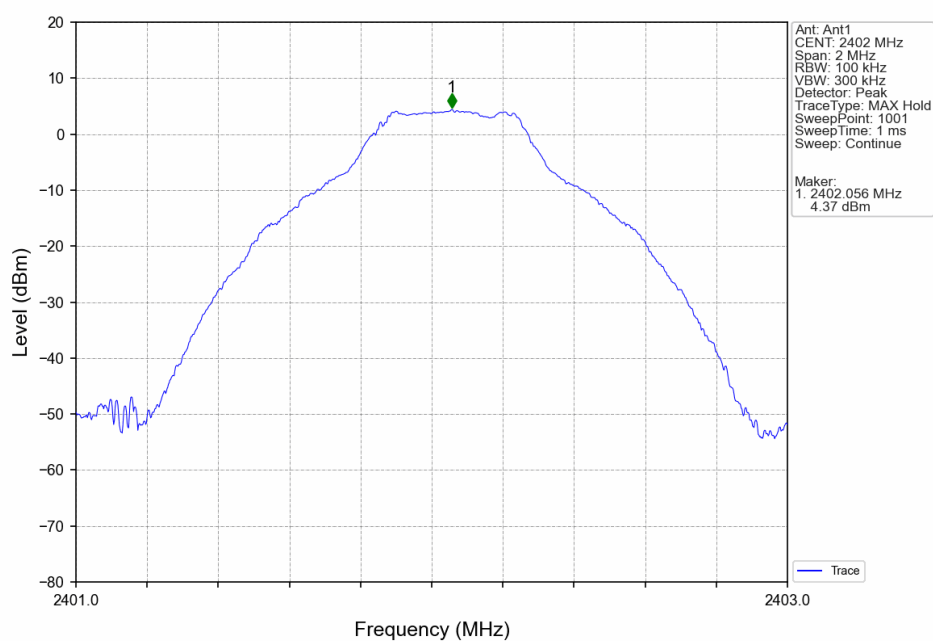
3.Margin=Limit-Level, AV Level = PK Level + Duty Cycle Factor.

Appendix G: Conducted Spurious Emission

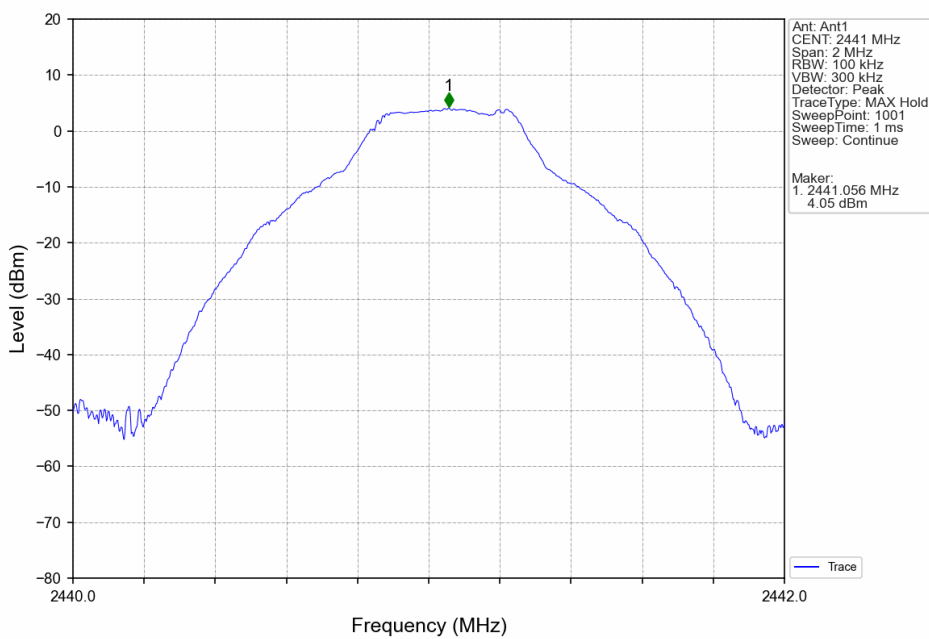
Test Result for Reference level :

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	4.37
		2441	DH5	1	4.05
		2480	DH5	1	4.11
		HOPP	DH5	1	4.58
					4.58
Pi/4DQPSK	SISO	2402	2DH5	1	4.11
		2441	2DH5	1	4.12
		2480	2DH5	1	4.00
		HOPP	2DH5	1	4.44
					4.44
8DPSK	SISO	2402	3DH5	1	4.06
		2441	3DH5	1	4.26
		2480	3DH5	1	4.05
		HOPP	3DH5	1	4.42
					4.42

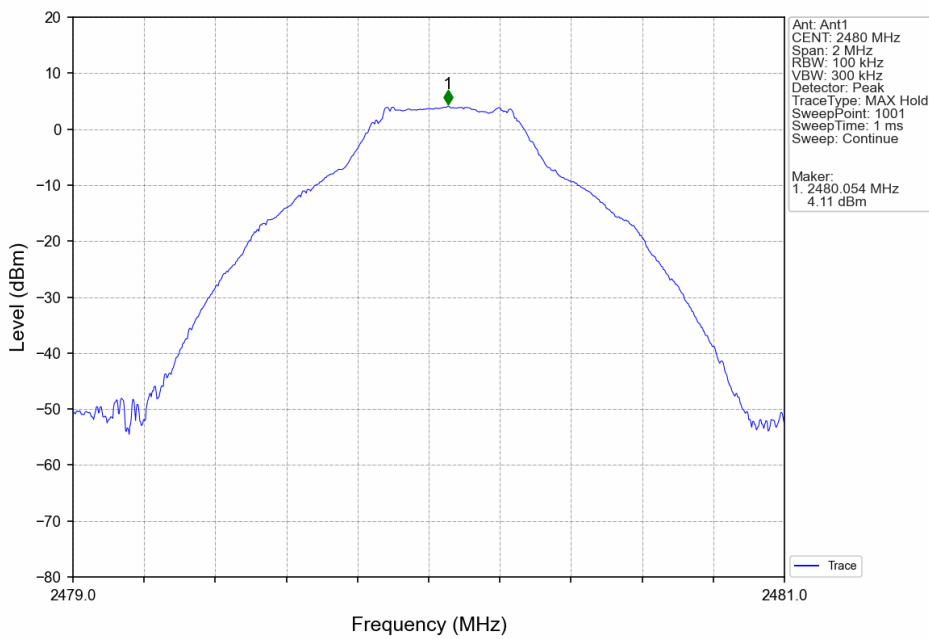
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



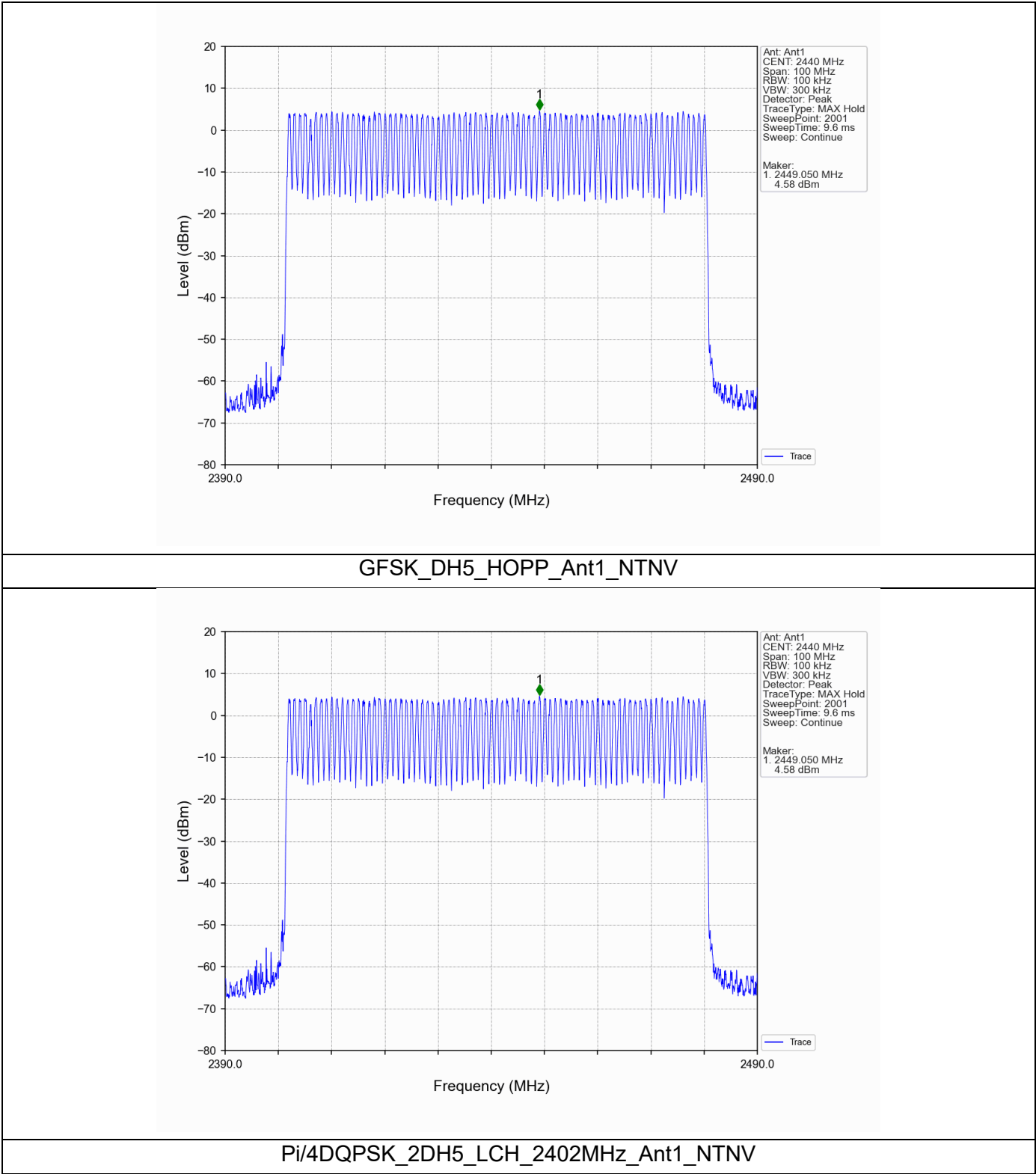
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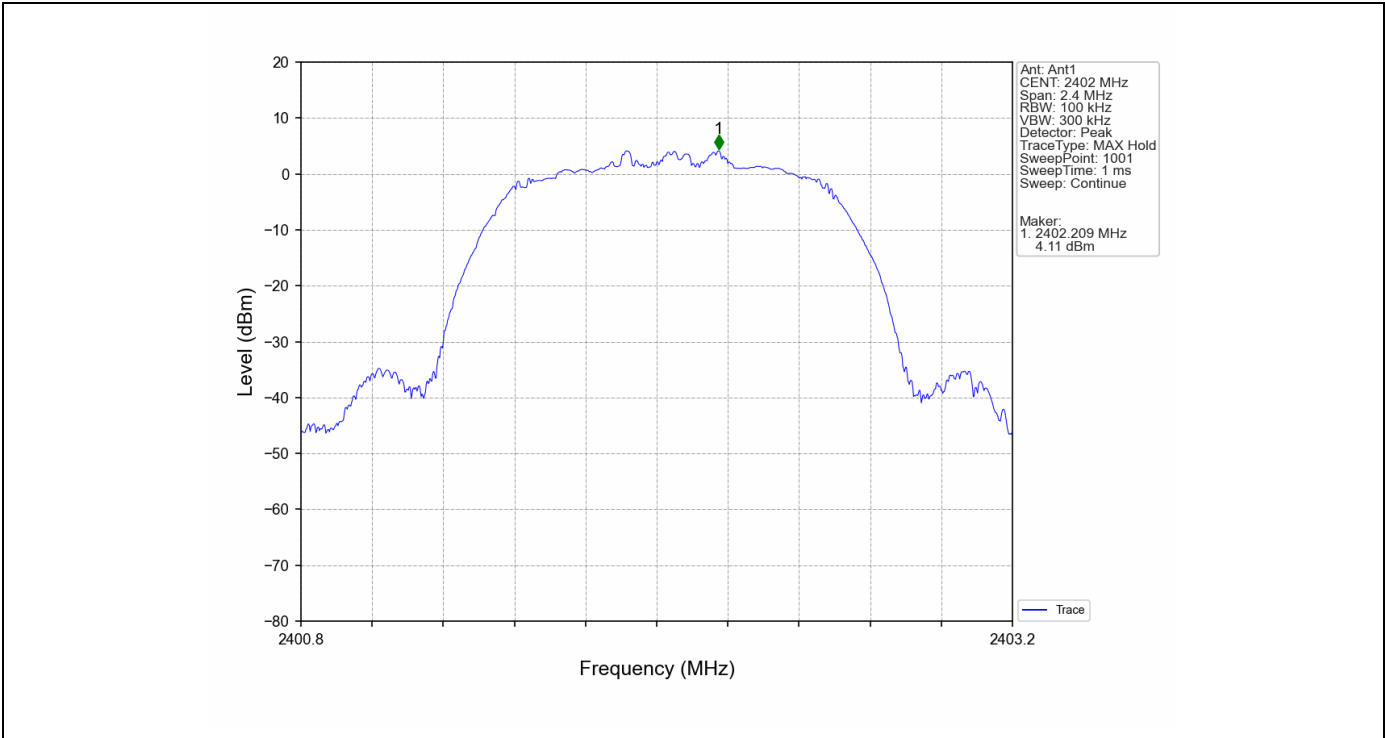


GFSK_DH5_HCH_2480MHz_Ant1_NTNV

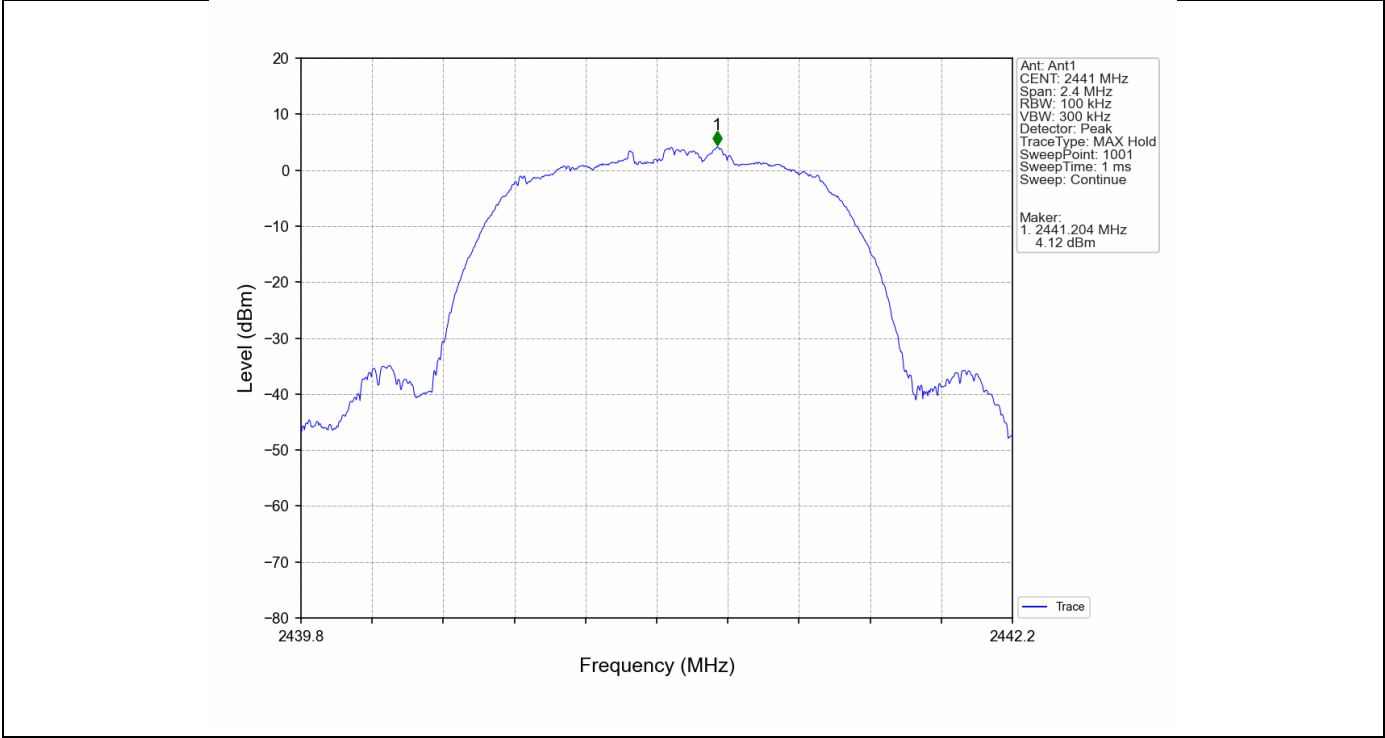


GFSK_DH5_HOPP_Ant1_NTNV

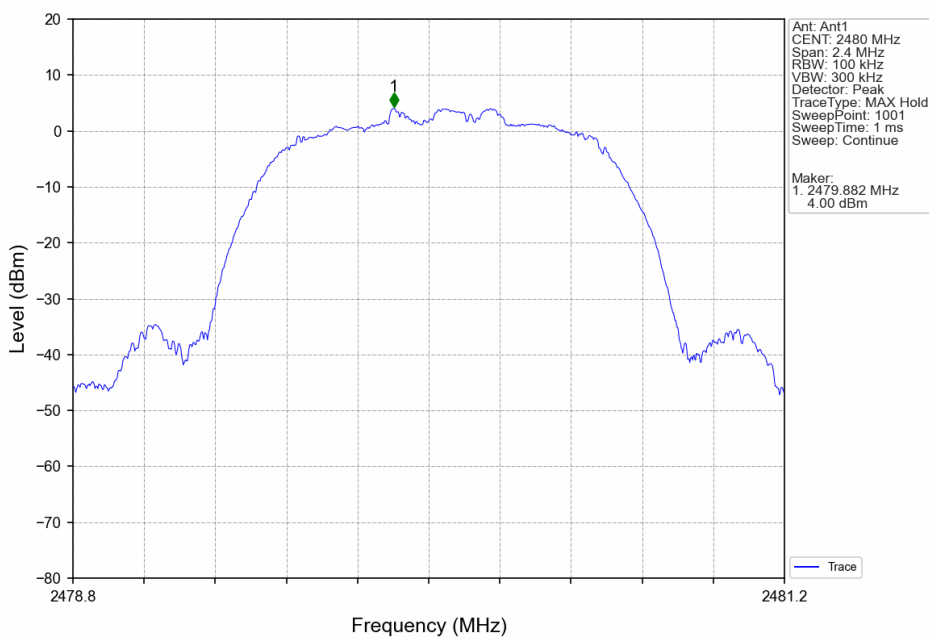




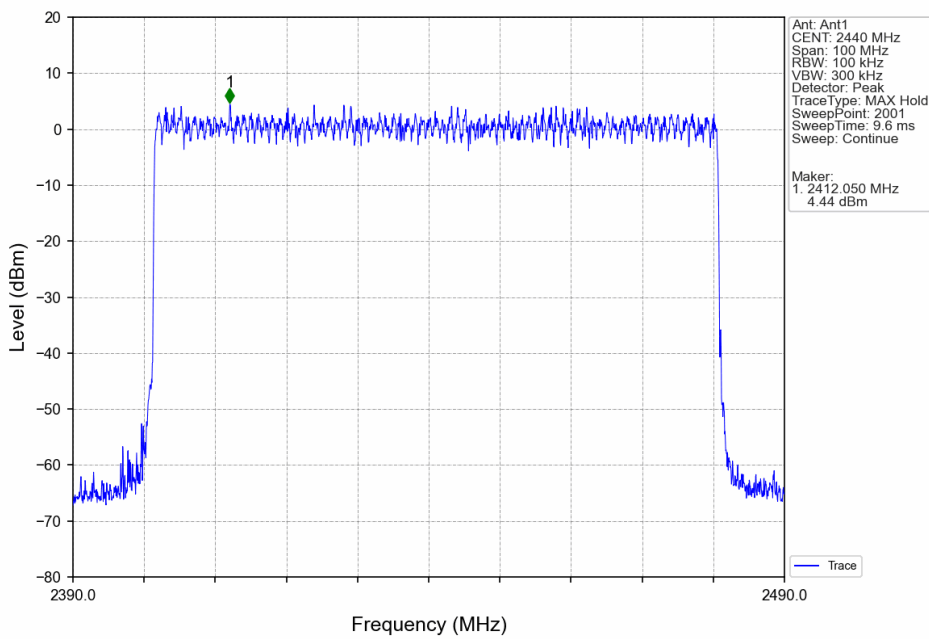
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



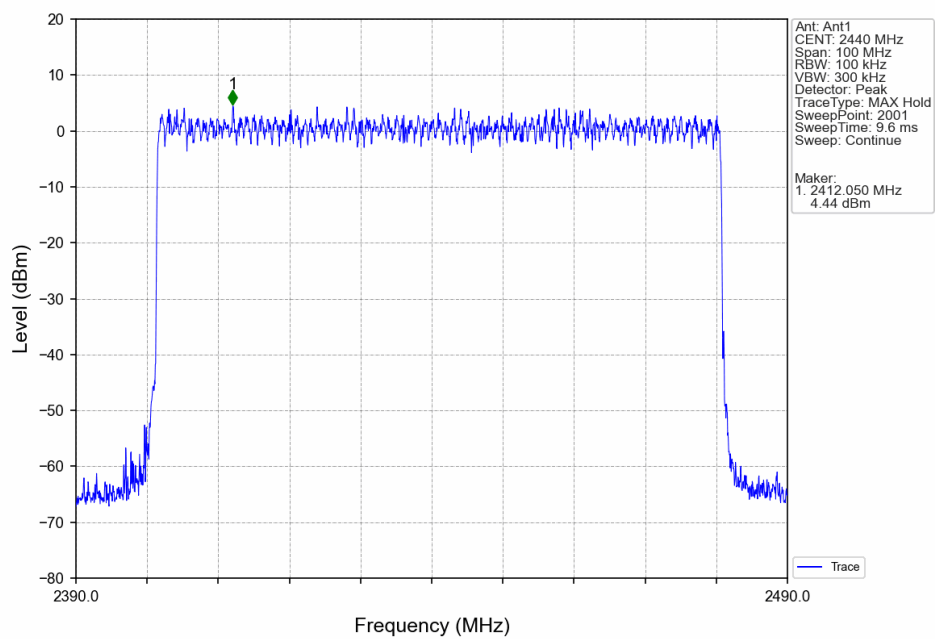
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



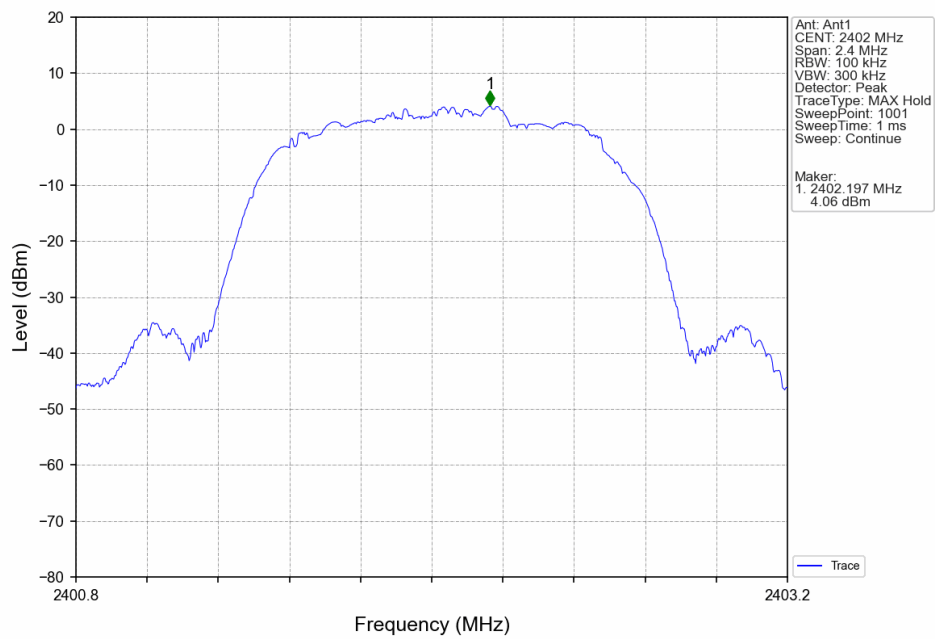
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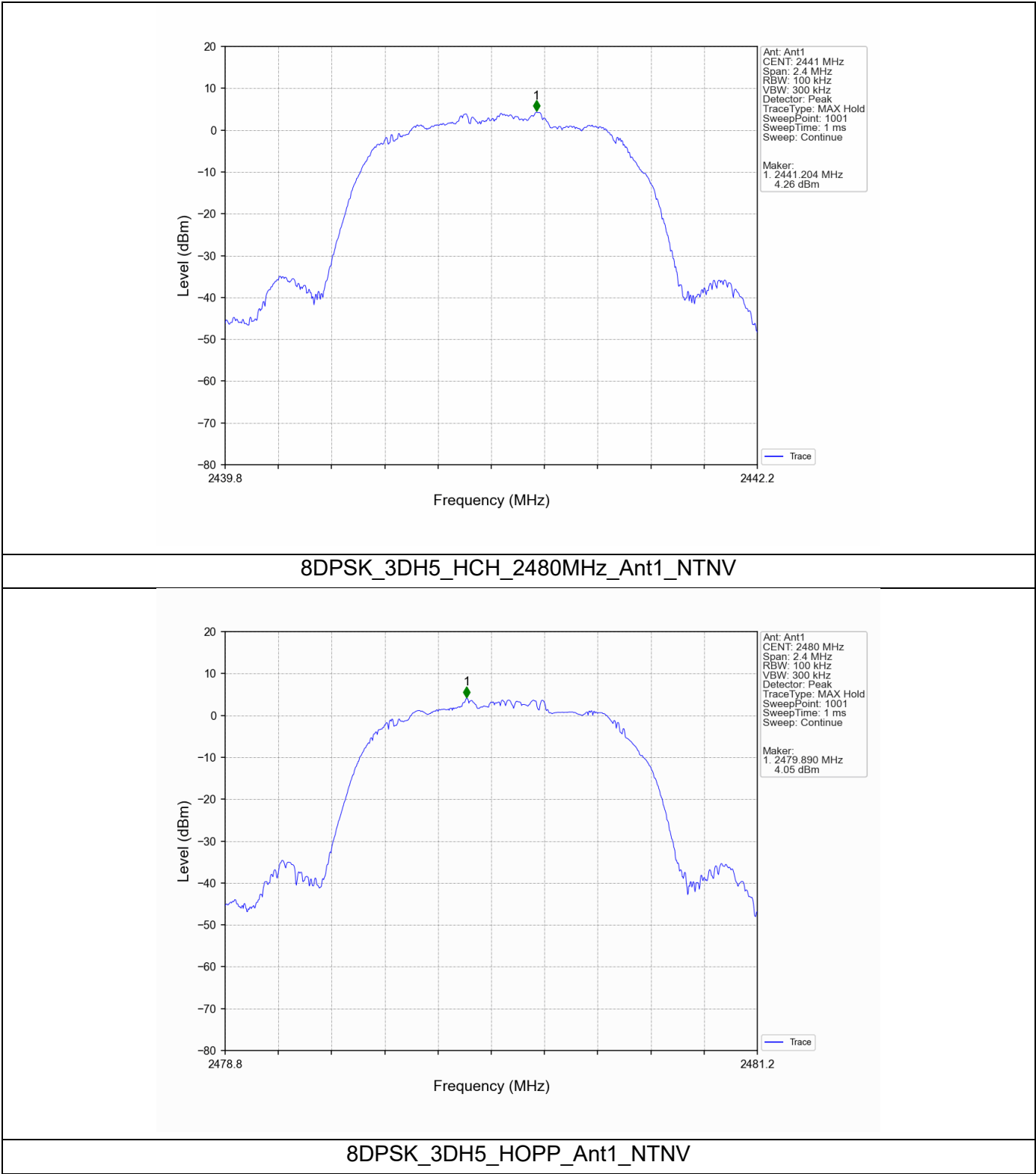
Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

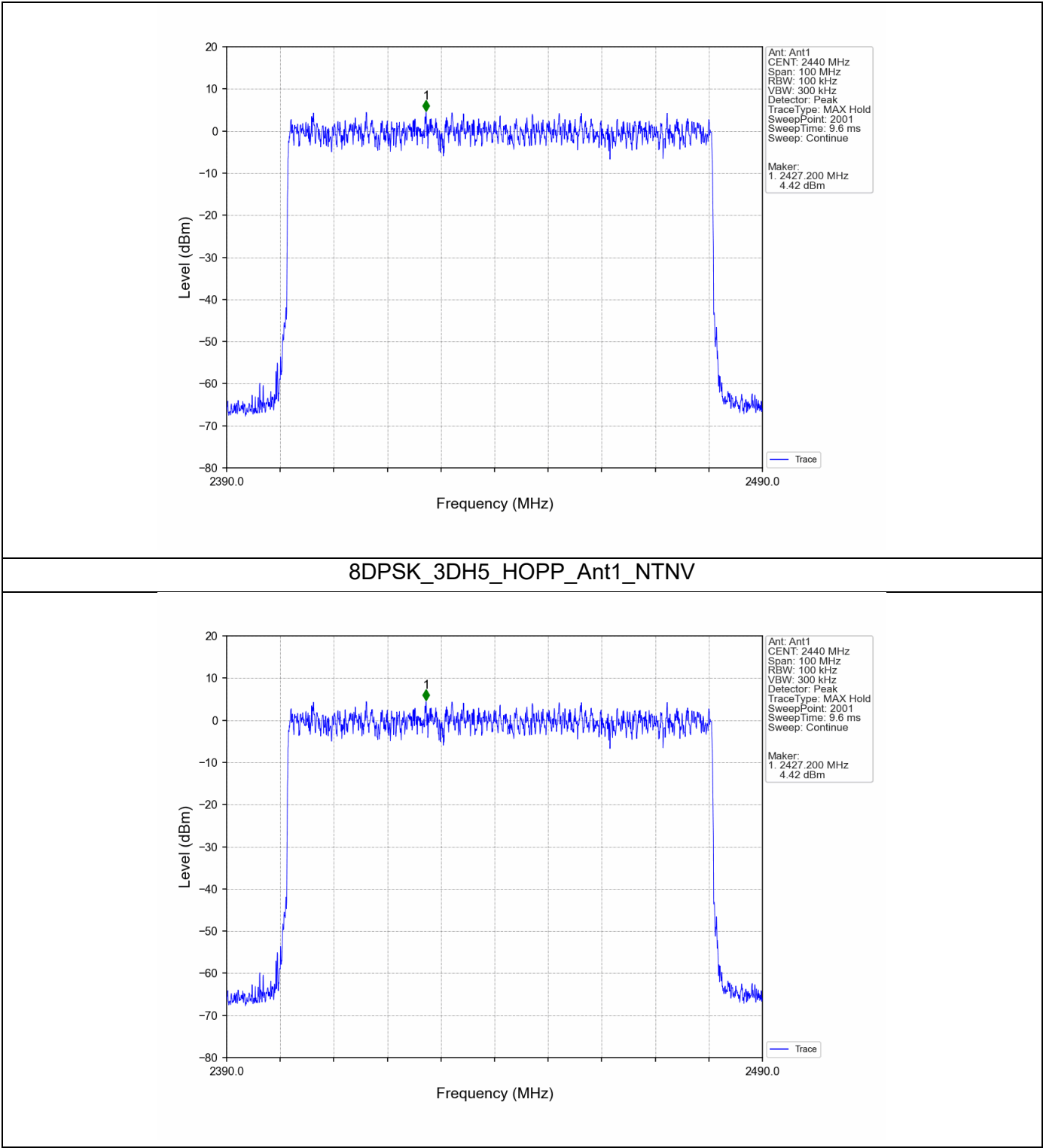


8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV

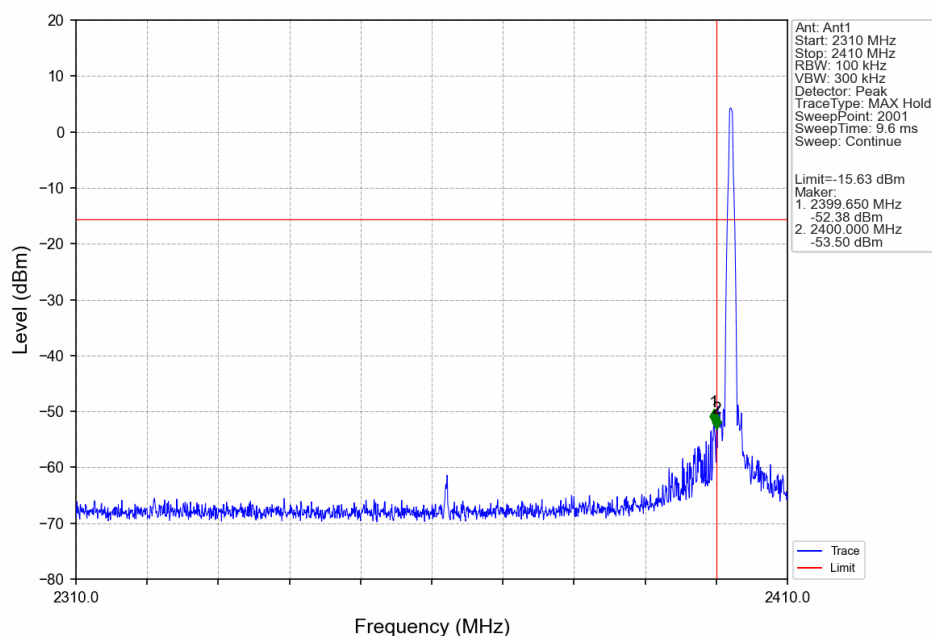




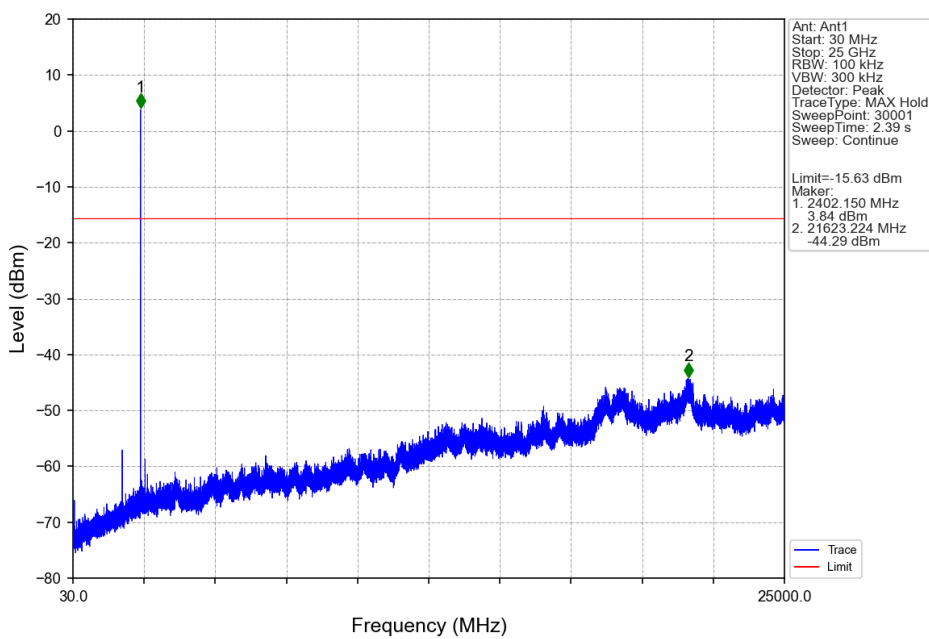
Test Result for Spurious Emission:

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	4.37	-15.63	Pass
		2441	DH5	1	4.05	-15.95	Pass
		2480	DH5	1	4.11	-15.89	Pass
		HOPP	DH5	1	4.58	-15.42	Pass
					4.58	-15.42	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	4.11	-15.89	Pass
		2441	2DH5	1	4.12	-15.88	Pass
		2480	2DH5	1	4.00	-16.00	Pass
		HOPP	2DH5	1	4.44	-15.56	Pass
					4.44	-15.56	Pass
8DPSK	SISO	2402	3DH5	1	4.06	-15.94	Pass
		2441	3DH5	1	4.26	-15.74	Pass
		2480	3DH5	1	4.05	-15.95	Pass
		HOPP	3DH5	1	4.42	-15.58	Pass
					4.42	-15.58	Pass

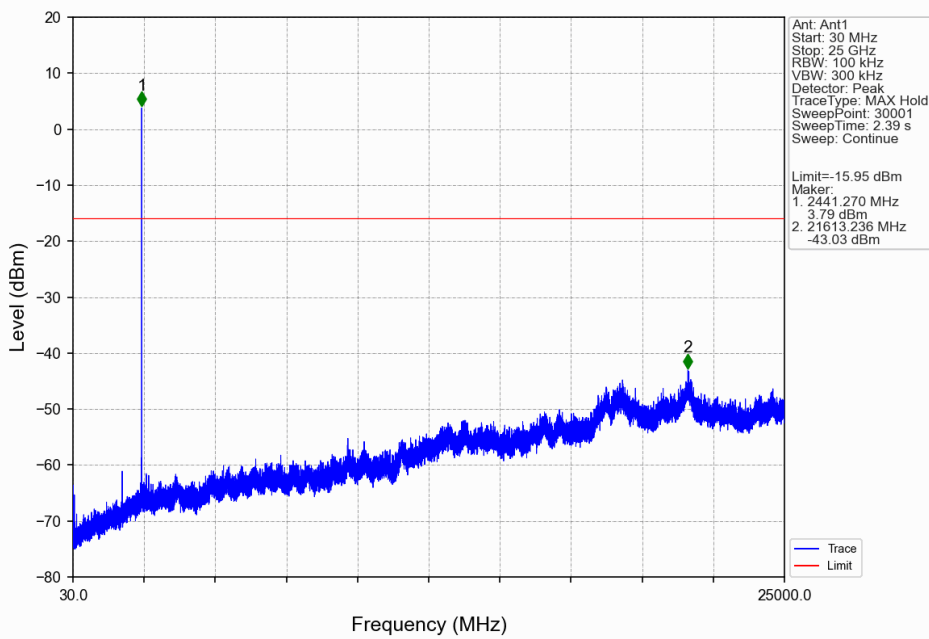
GFSK_DH5_LCH_2402MHz_Ant1_NTNV



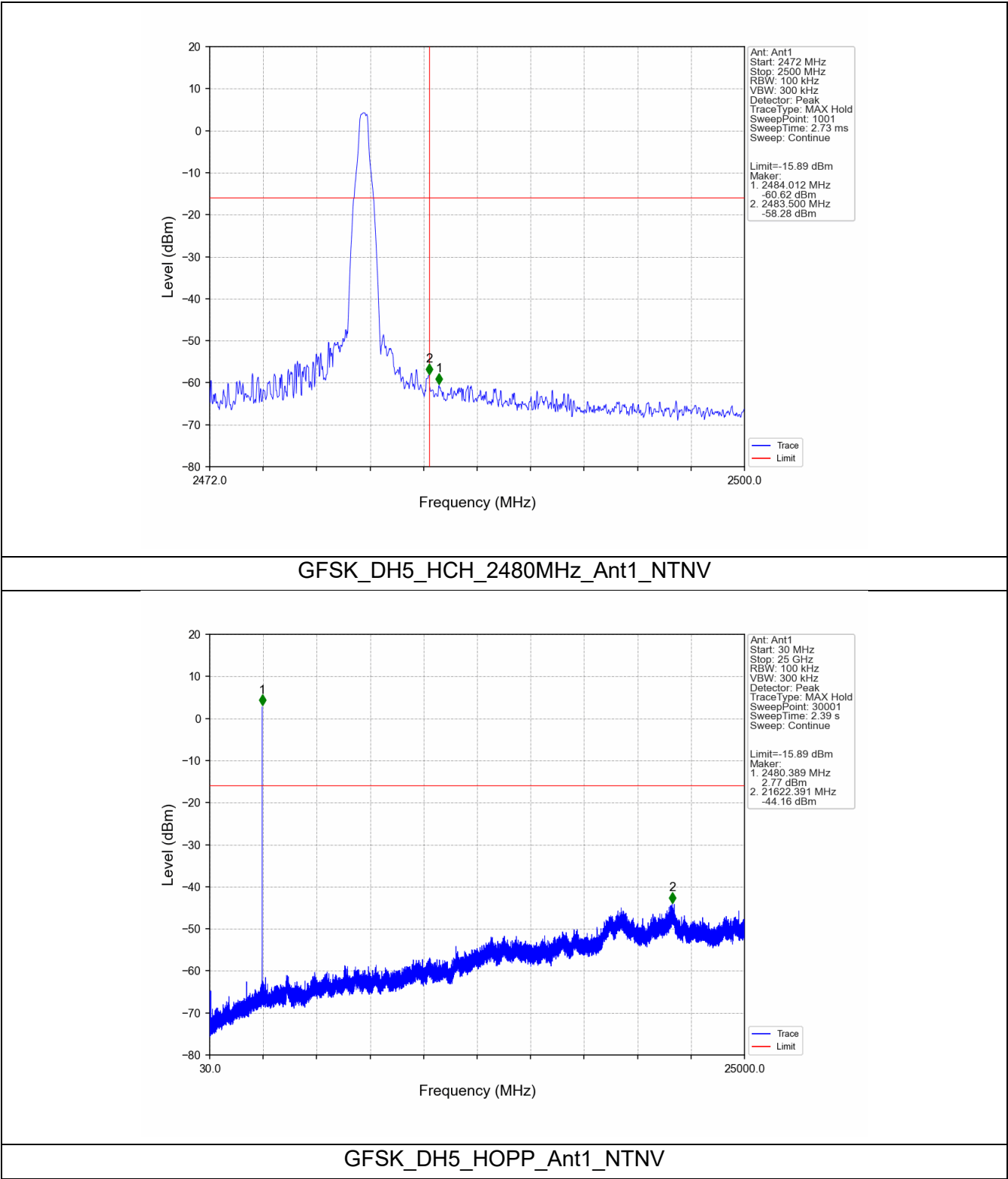
GFSK_DH5_LCH_2402MHz_Ant1_NTNV

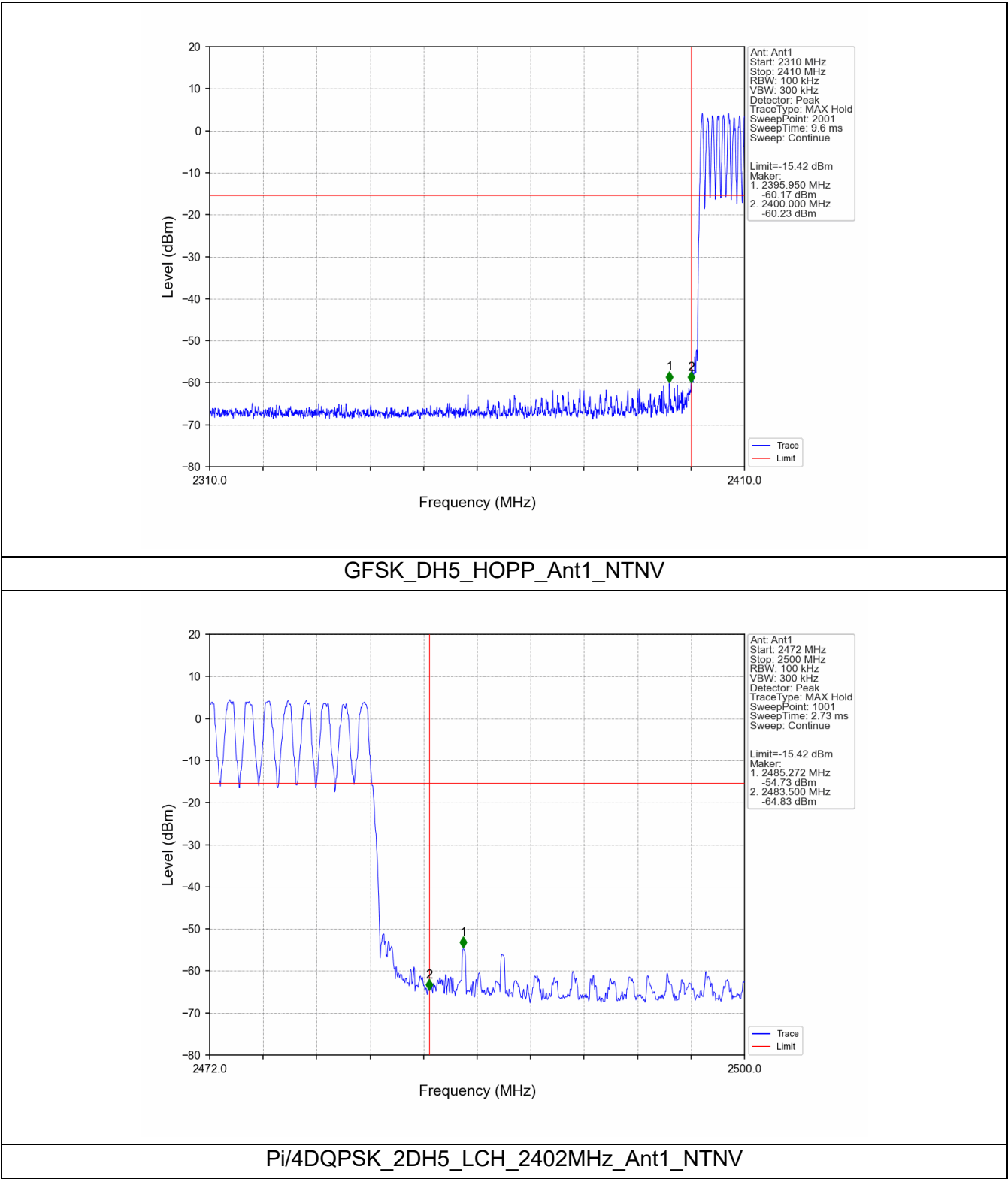


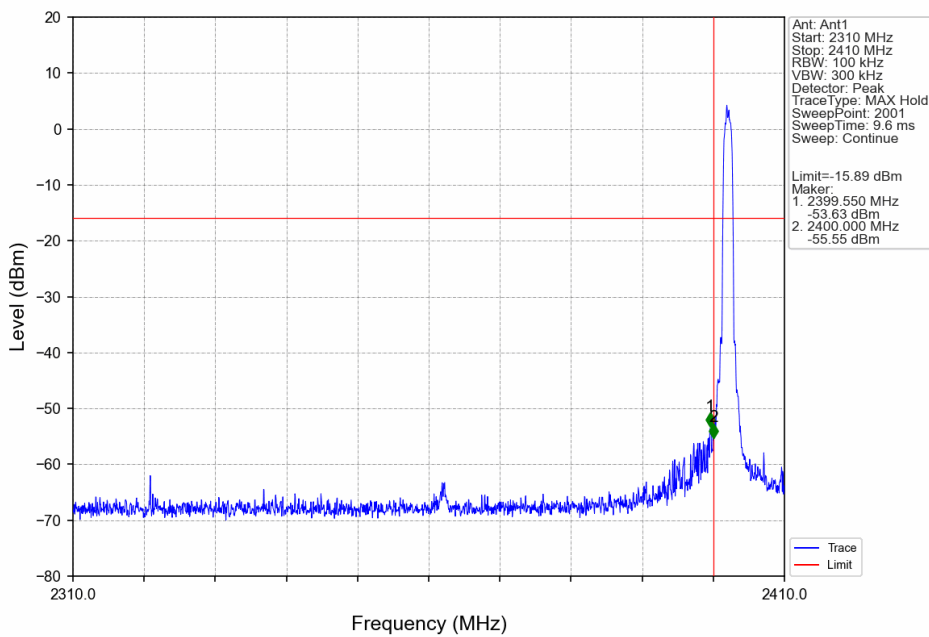
GFSK_DH5_MCH_2441MHz_Ant1_NTNV



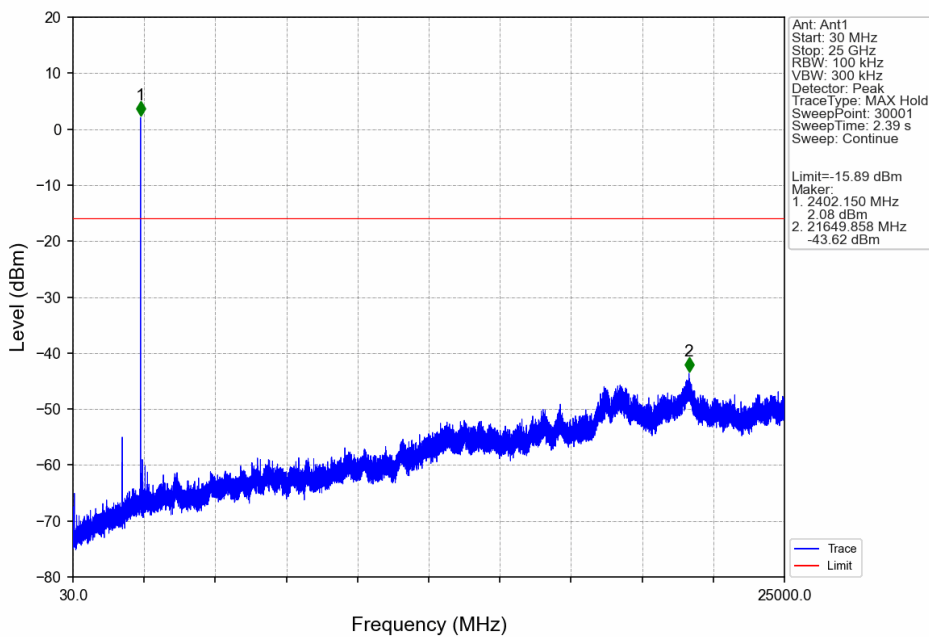
GFSK_DH5_HCH_2480MHz_Ant1_NTNV



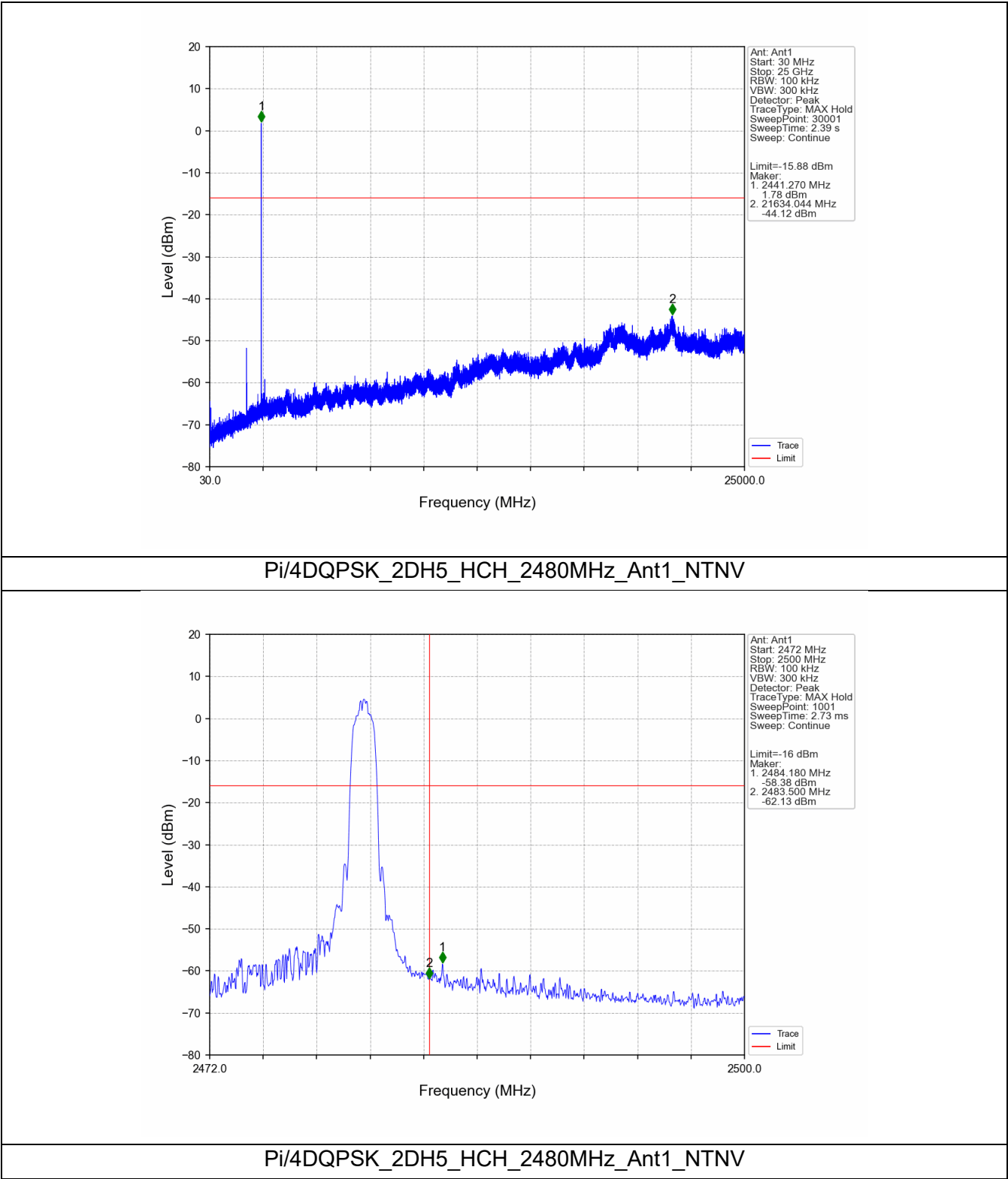


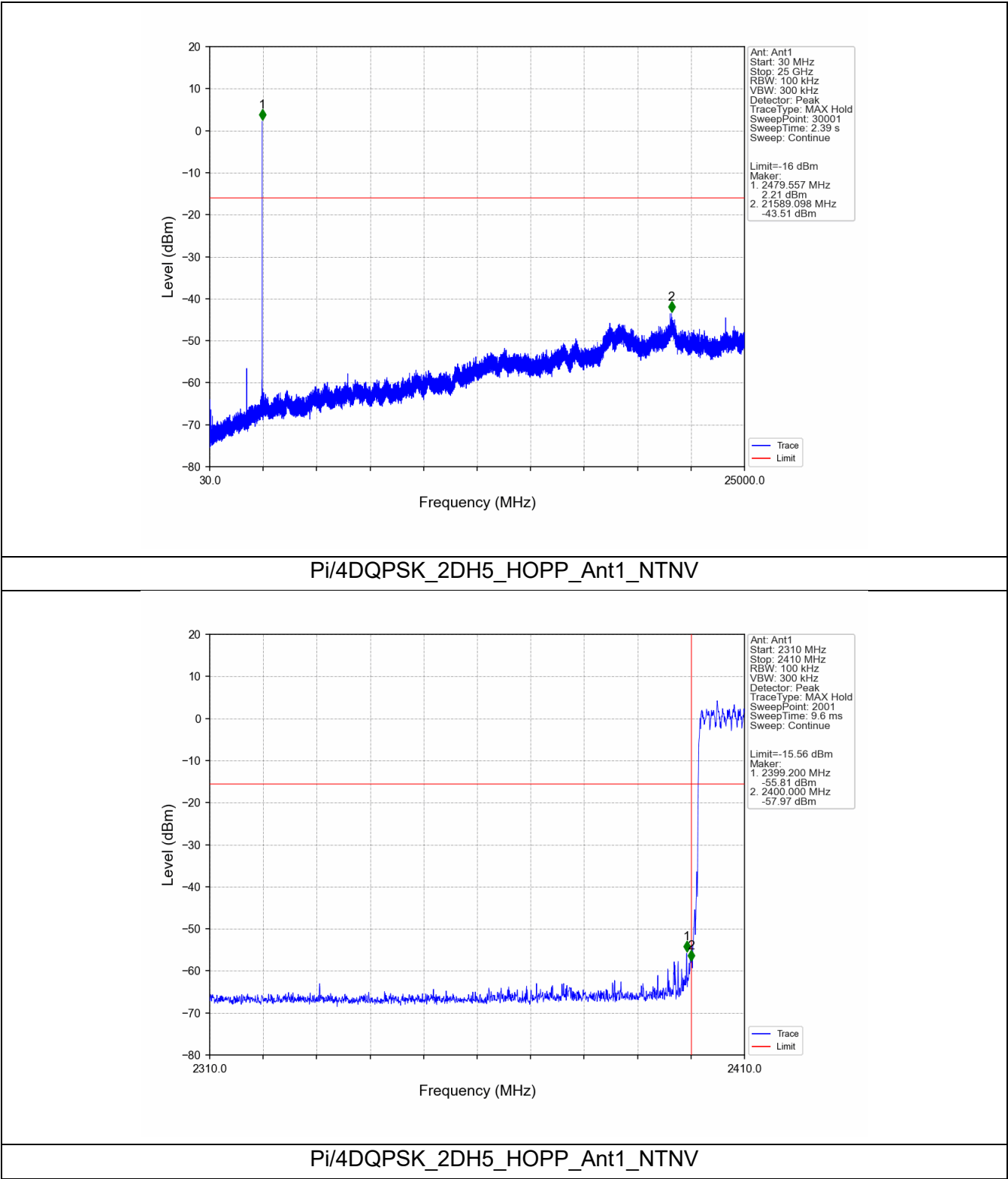


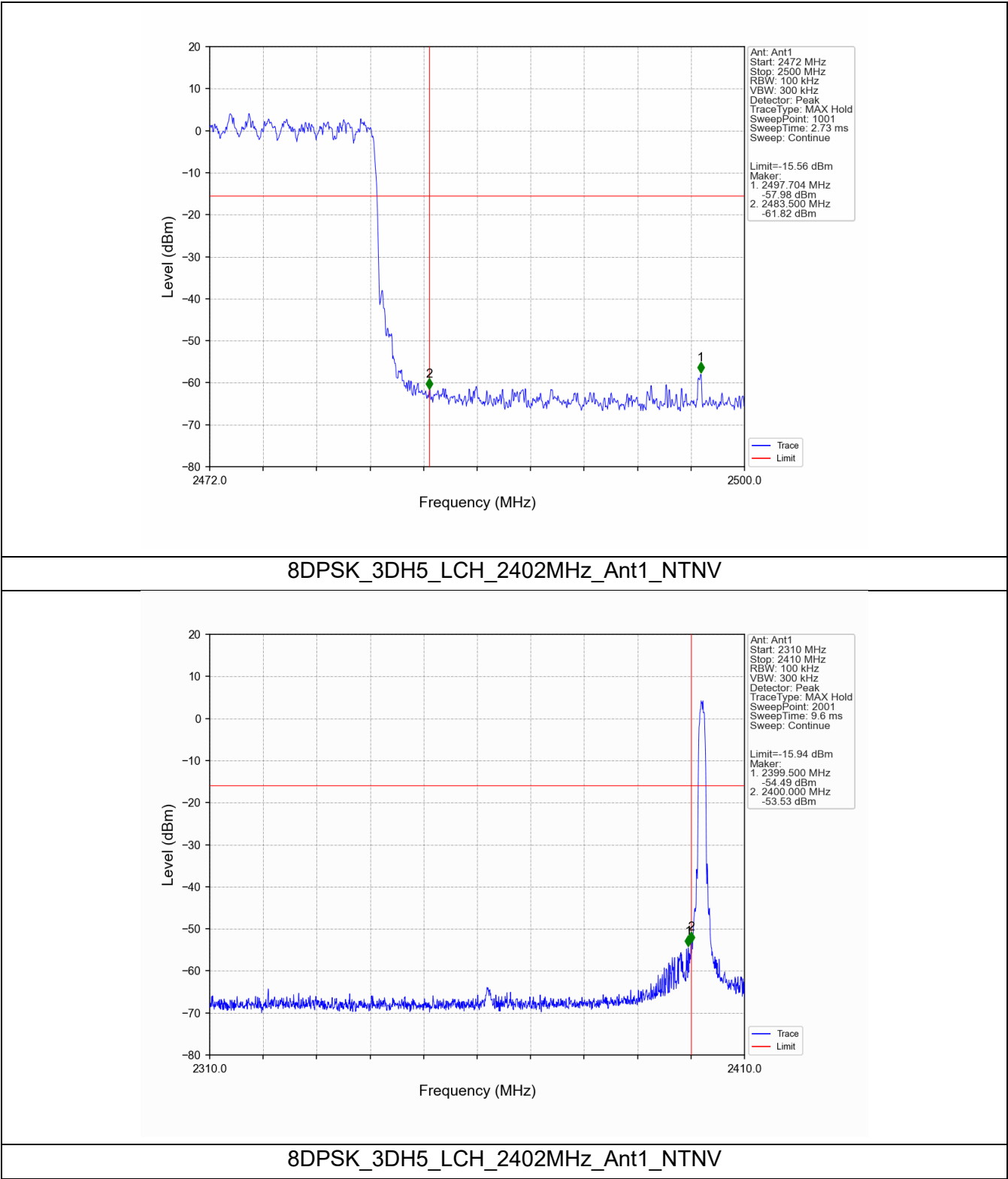
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV

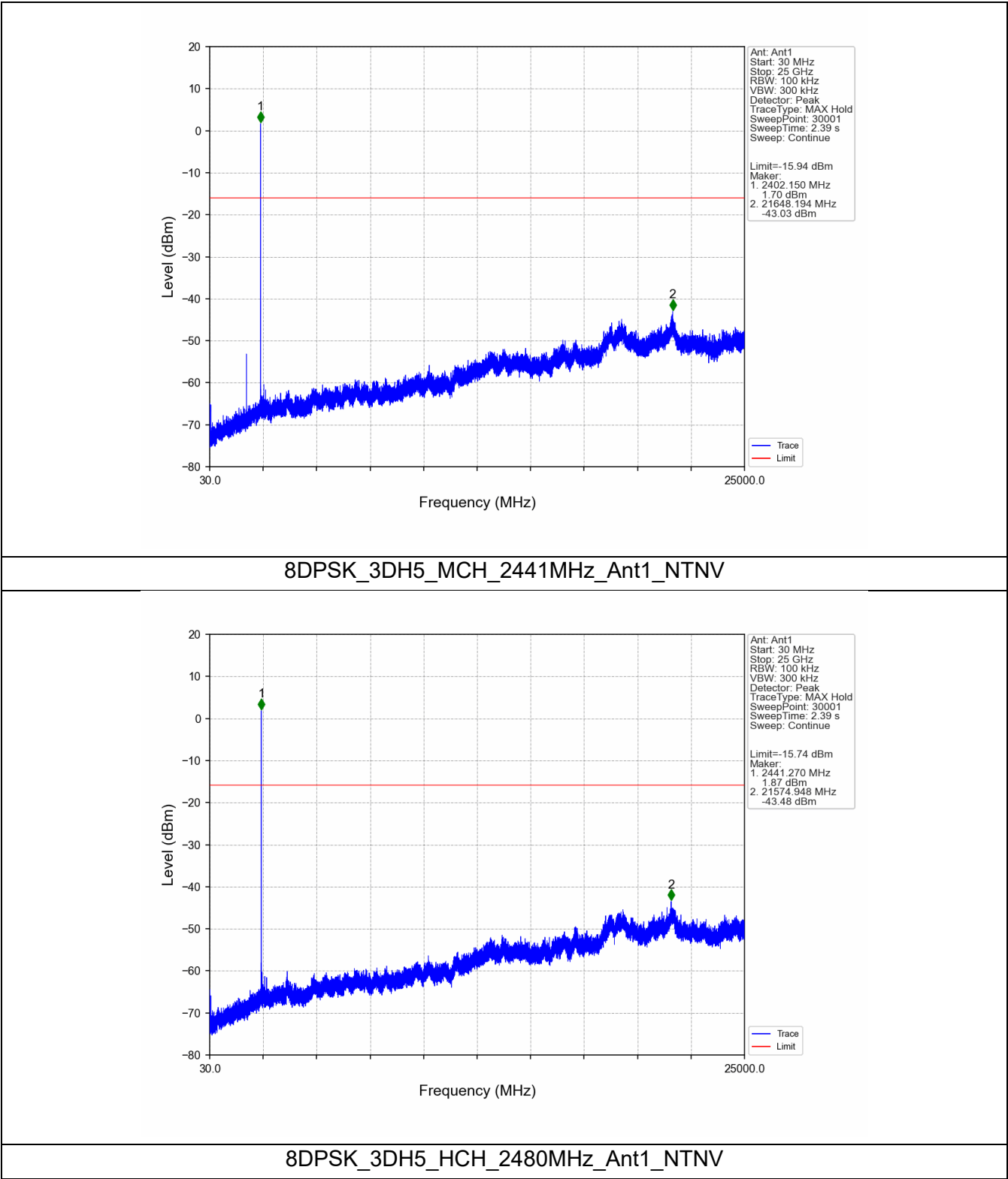


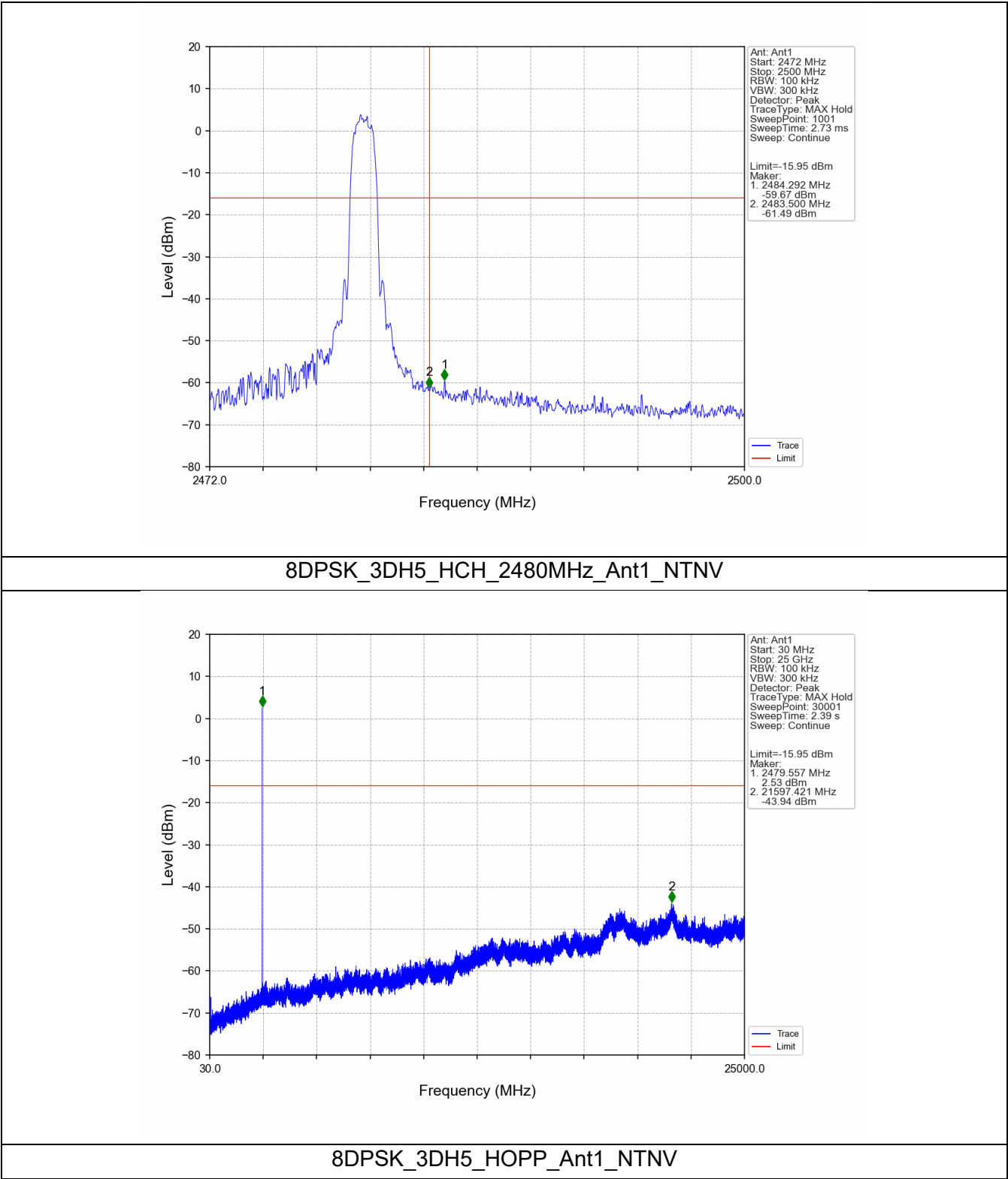
Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV

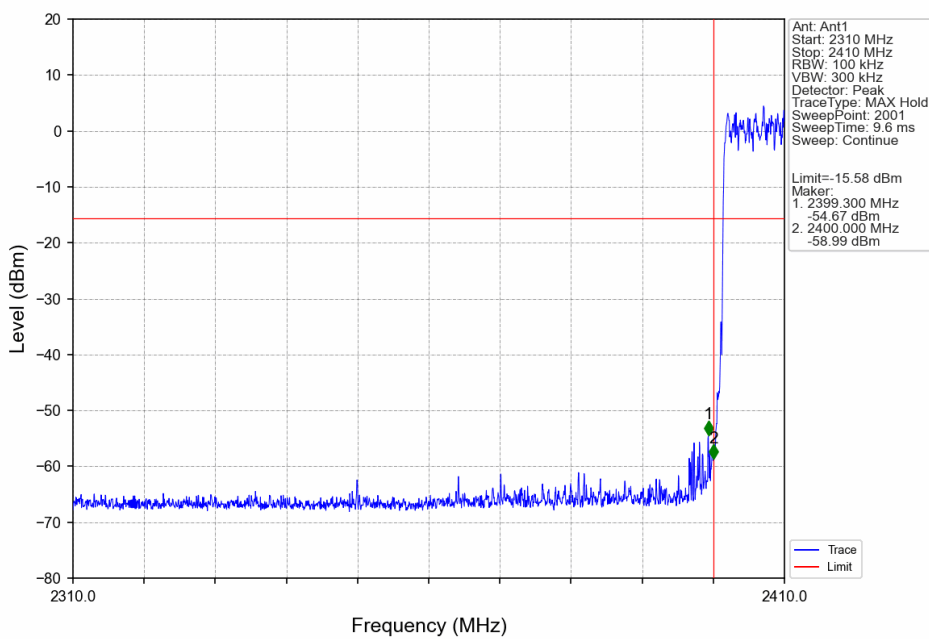




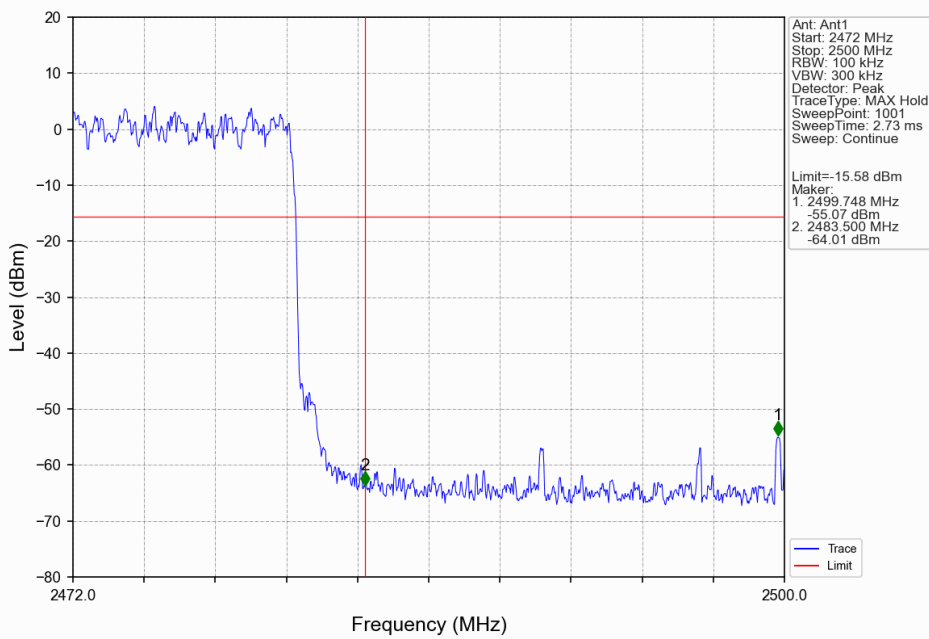






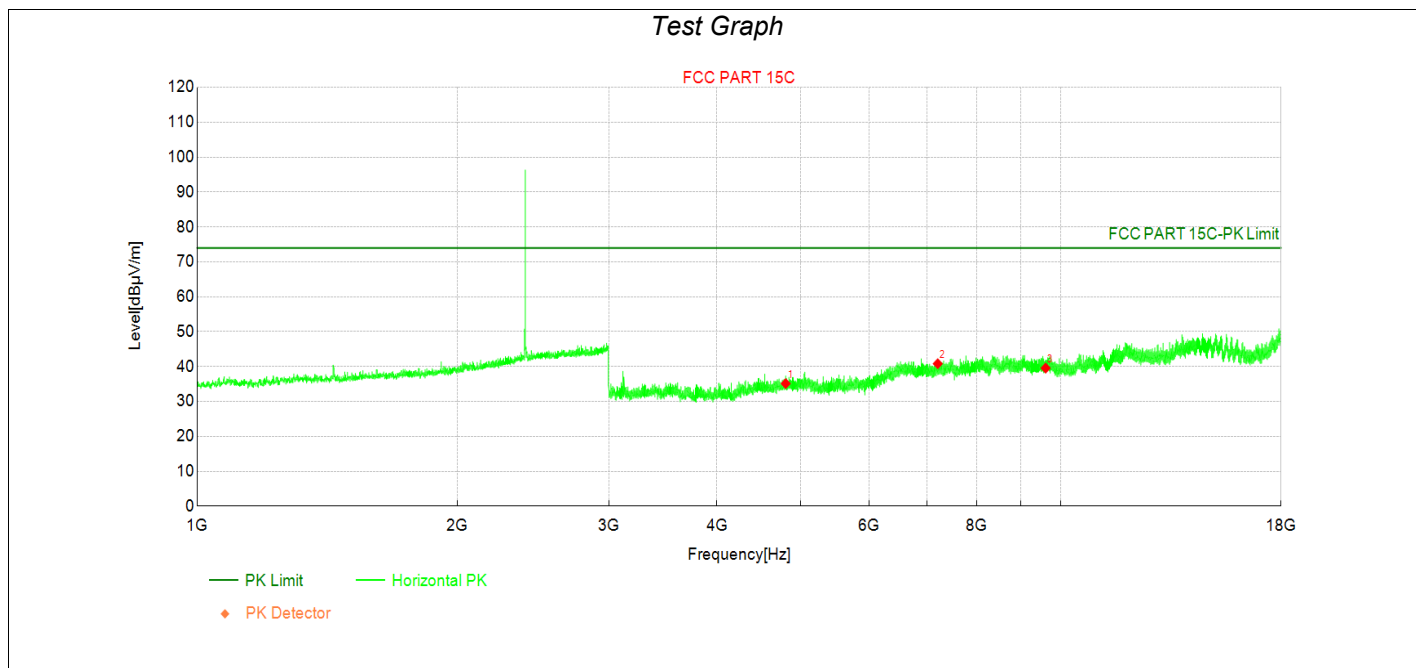


8DPSK_3DH5_HOPP_Ant1_NTNV



Appendix H: Emissions in Restricted Band

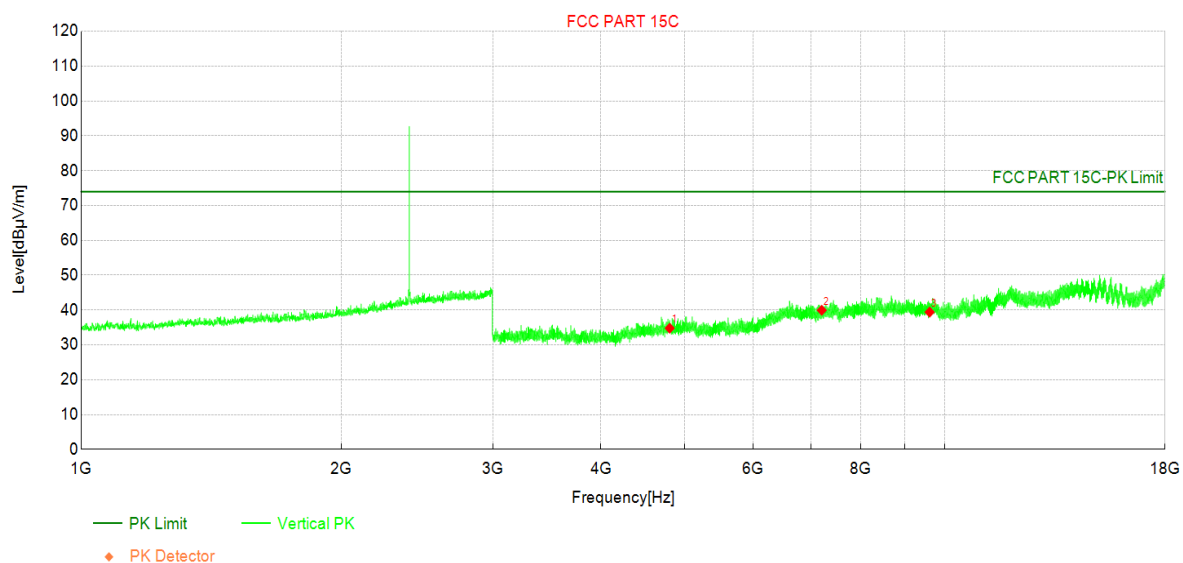
Transmit at 2402MHz by DH5



Data List									
NO	Frequenc y [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4804.00	40.11	35.13	-4.98	74.00	38.87	PK	Horizo	PASS
	4804.00	-	10.34	-	54.00	43.66	AV	Horizo	PASS
2	7206.00	37.71	40.82	3.11	74.00	33.18	PK	Horizo	PASS
	7206.00	-	16.03	-	54.00	37.97	AV	Horizo	PASS
3	9608.00	33.00	39.56	6.56	74.00	34.44	PK	Horizo	PASS
	9608.00	-	14.77	-	54.00	39.23	AV	Horizo	PASS

Transmit at 2402MHz by DH5

Test Graph

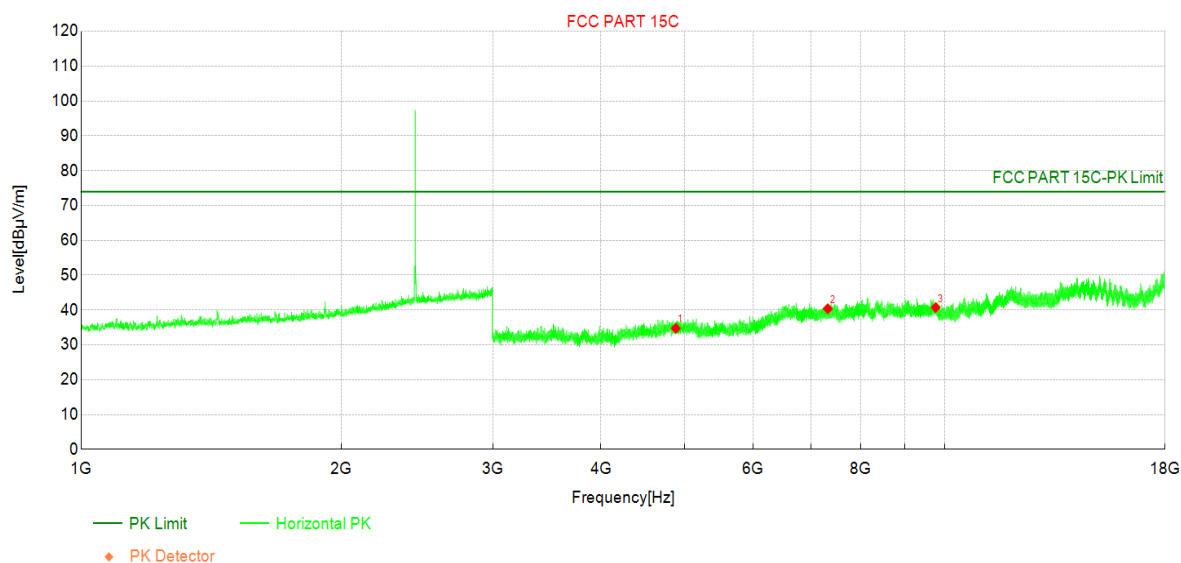


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4804.00	39.76	34.78	-4.98	74.00	39.22	PK	Vertic	PASS
	4804.00	-	9.99	-	54.00	44.01	AV	Vertic	PASS
2	7206.00	36.83	39.94	3.11	74.00	34.06	PK	Vertic	PASS
	7206.00	-	15.15	-	54.00	38.85	AV	Vertic	PASS
3	9608.00	32.84	39.40	6.56	74.00	34.60	PK	Vertic	PASS
	9608.00	-	14.61	-	54.00	39.39	AV	Vertic	PASS

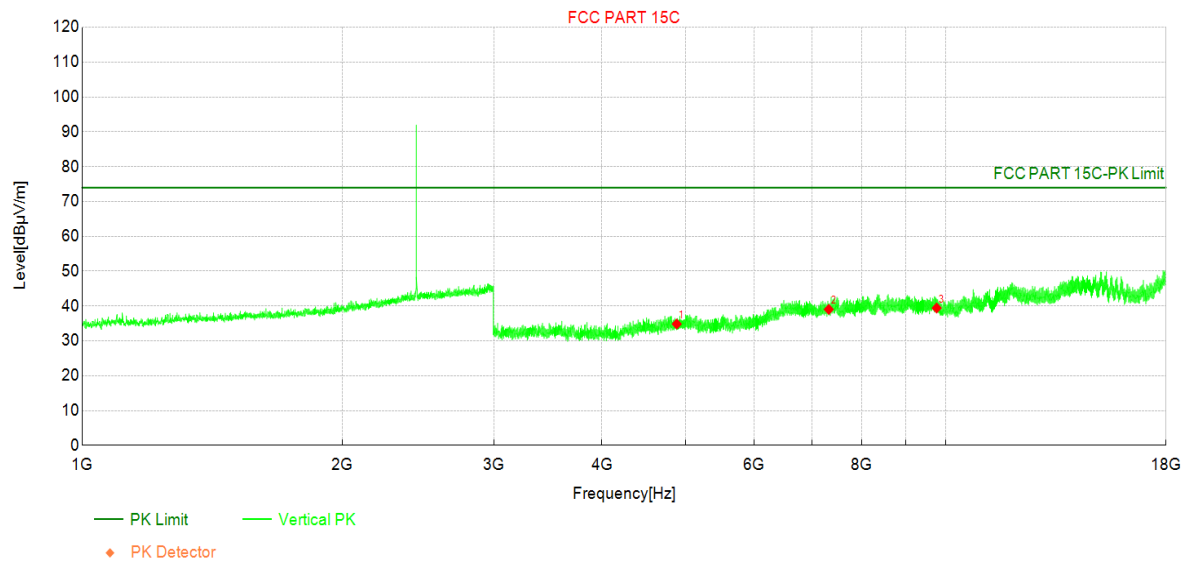
Transmit at 2441MHz by DH5

Test Graph



Data List

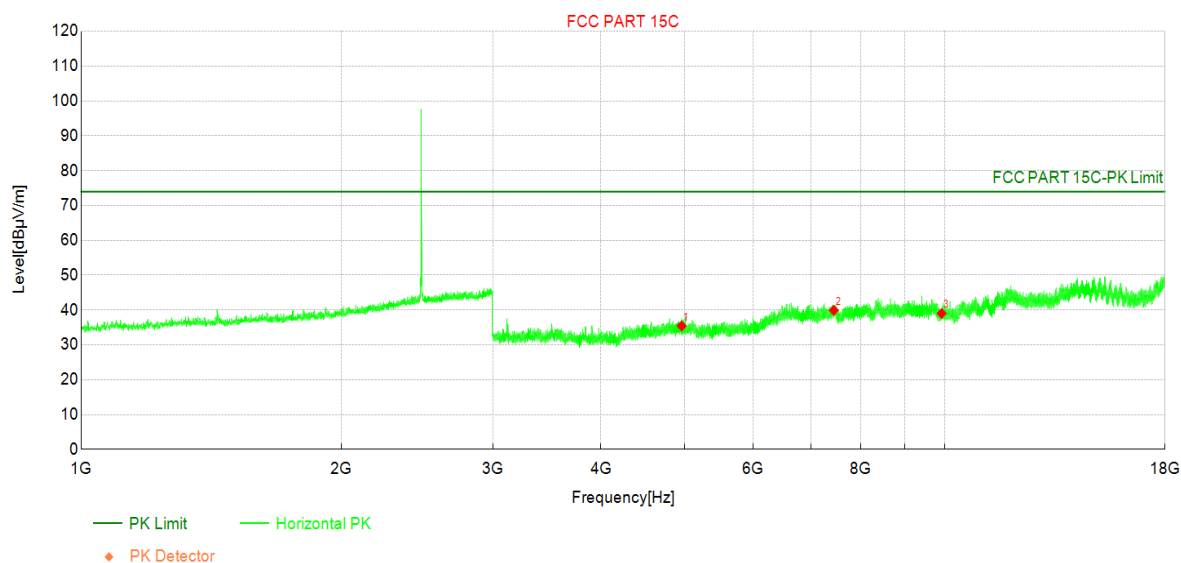
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4882.00	39.83	34.74	-5.09	74.00	39.26	PK	Horizo	PASS
	4882.00	-	9.95	-	54.00	44.05	AV	Horizo	PASS
2	7323.00	37.23	40.36	3.13	74.00	33.64	PK	Horizo	PASS
	7323.00	-	15.57	-	54.00	38.43	AV	Horizo	PASS
3	9764.00	33.72	40.71	6.99	74.00	33.29	PK	Horizo	PASS
	9764.00	-	15.92	-	54.00	38.08	AV	Horizo	PASS

Transmit at 2441MHz by DH5*Test Graph***Data List**

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4882.00	39.92	34.83	-5.09	74.00	39.17	PK	Vertic	PASS
	4882.00	-	10.04	-	54.00	43.96	AV	Vertic	PASS
2	7323.00	35.90	39.03	3.13	74.00	34.97	PK	Vertic	PASS
	7323.00	-	14.24	-	54.00	39.76	AV	Vertic	PASS
3	9764.00	32.43	39.42	6.99	74.00	34.58	PK	Vertic	PASS
	9764.00	-	14.63	-	54.00	39.37	AV	Vertic	PASS

Transmit at 2480MHz by DH5

Test Graph

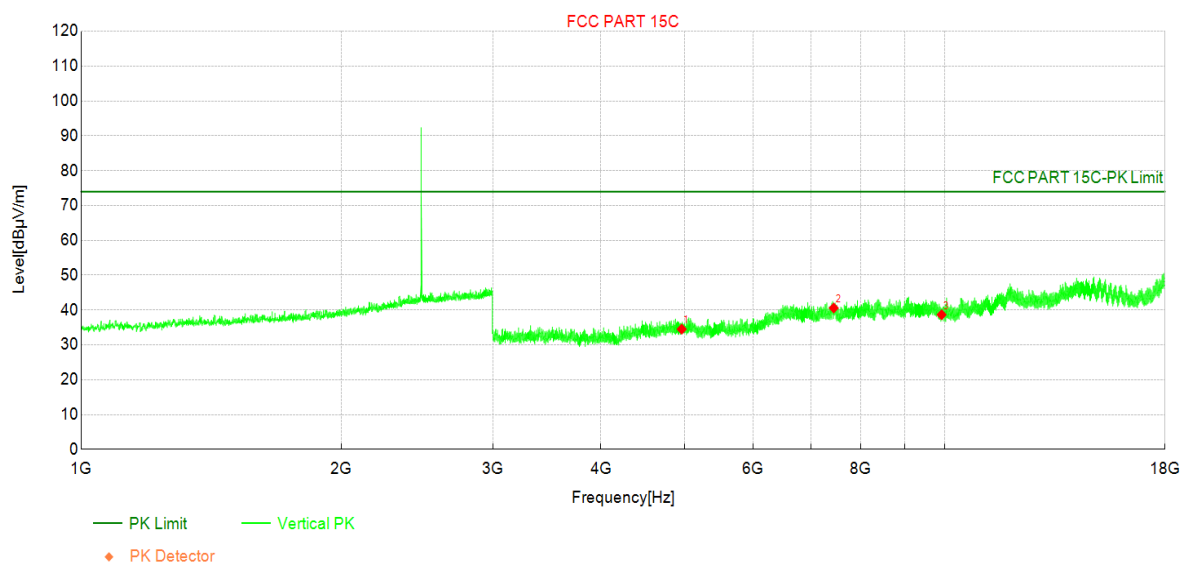


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4960.00	40.42	35.44	-4.98	74.00	38.56	PK	Horizo	PASS
	4960.00	-	10.65	-	54.00	43.35	AV	Horizo	PASS
2	7440.00	36.45	39.90	3.45	74.00	34.10	PK	Horizo	PASS
	7440.00	-	15.11	-	54.00	38.89	AV	Horizo	PASS
3	9920.00	32.36	39.02	6.66	74.00	34.98	PK	Horizo	PASS
	9920.00	-	14.23	-	54.00	39.77	AV	Horizo	PASS

Transmit at 2480MHz by DH5

Test Graph

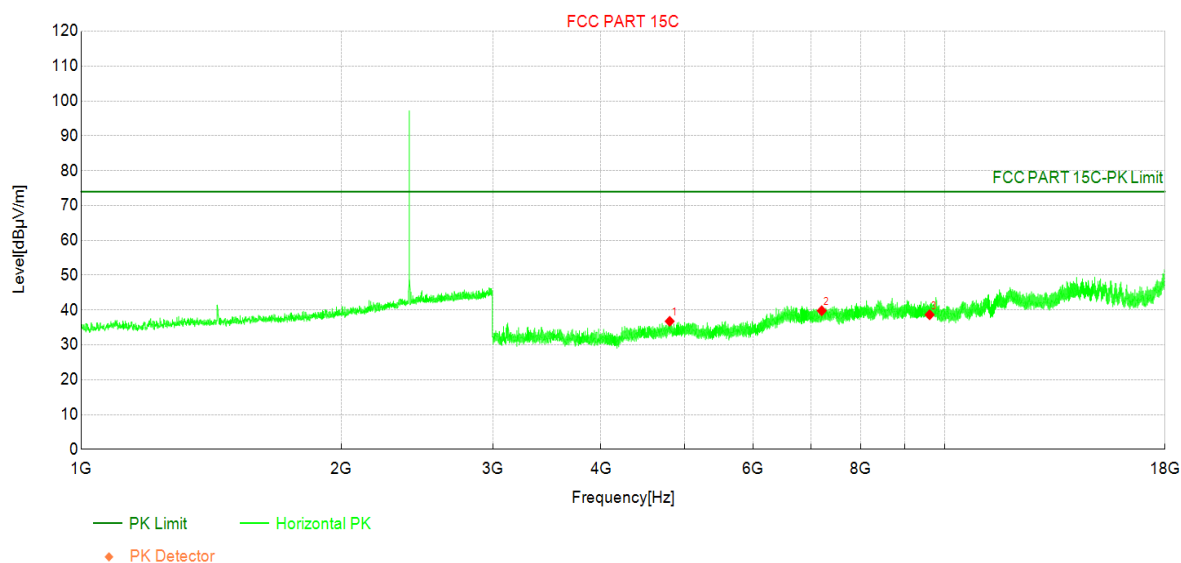


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4960.00	39.49	34.51	-4.98	74.00	39.49	PK	Vertic	PASS
	4960.00	-	9.72	-	54.00	44.28	AV	Vertic	PASS
2	7440.00	37.13	40.58	3.45	74.00	33.42	PK	Vertic	PASS
	7440.00	-	15.79	-	54.00	38.21	AV	Vertic	PASS
3	9920.00	31.99	38.65	6.66	74.00	35.35	PK	Vertic	PASS
	9920.00	-	13.86	-	54.00	40.14	AV	Vertic	PASS

Transmit at 2402MHz by 2DH5

Test Graph

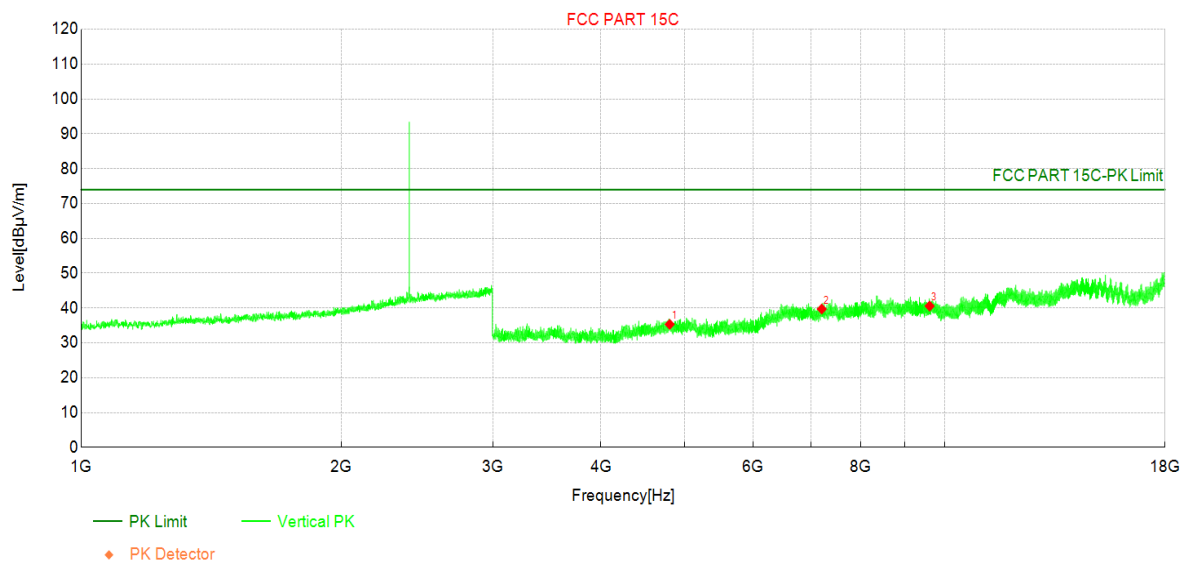


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4804.00	41.74	36.76	-4.98	74.00	37.24	PK	Horizo	PASS
	4804.00	-	11.97	-	54.00	42.03	AV	Horizo	PASS
2	7206.00	36.69	39.80	3.11	74.00	34.20	PK	Horizo	PASS
	7206.00	-	15.01	-	54.00	38.99	AV	Horizo	PASS
3	9608.00	32.09	38.65	6.56	74.00	35.35	PK	Horizo	PASS
	9608.00	-	13.86	-	54.00	40.14	AV	Horizo	PASS

Transmit at 2402MHz by 2DH5

Test Graph

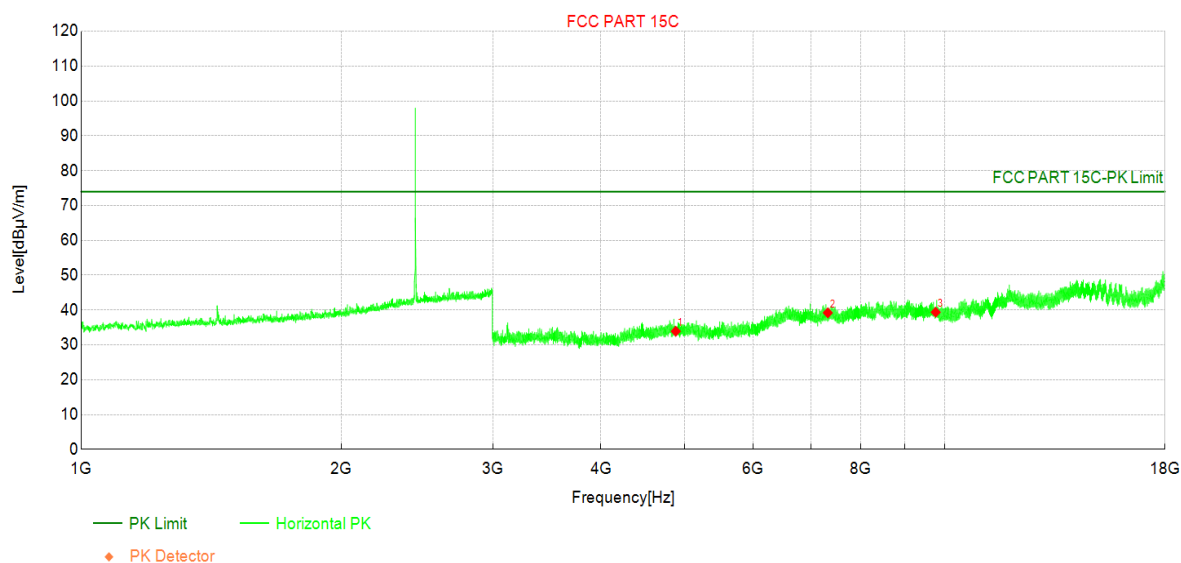


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4804.00	40.30	35.32	-4.98	74.00	38.68	PK	Vertic	PASS
	4804.00	-	10.53	-	54.00	43.47	AV	Vertic	PASS
2	7206.00	36.61	39.72	3.11	74.00	34.28	PK	Vertic	PASS
	7206.00	-	14.93	-	54.00	39.07	AV	Vertic	PASS
3	9608.00	34.01	40.57	6.56	74.00	33.43	PK	Vertic	PASS
	9608.00	-	15.78	-	54.00	38.22	AV	Vertic	PASS

Transmit at 2441MHz by 2DH5

Test Graph

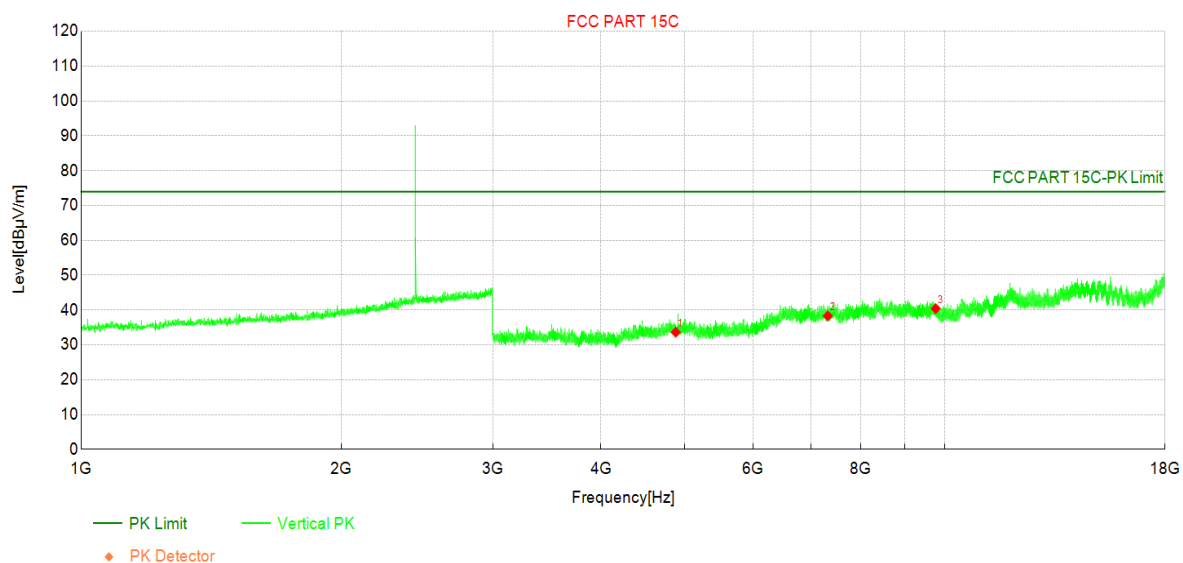


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4882.00	38.99	33.90	-5.09	74.00	40.10	PK	Horizo	PASS
	4882.00	-	9.11	-	54.00	44.89	AV	Horizo	PASS
2	7323.00	36.07	39.20	3.13	74.00	34.80	PK	Horizo	PASS
	7323.00	-	14.41	-	54.00	39.59	AV	Horizo	PASS
3	9764.00	32.38	39.37	6.99	74.00	34.63	PK	Horizo	PASS
	9764.00	-	14.58	-	54.00	39.42	AV	Horizo	PASS

Transmit at 2441MHz by 2DH5

Test Graph

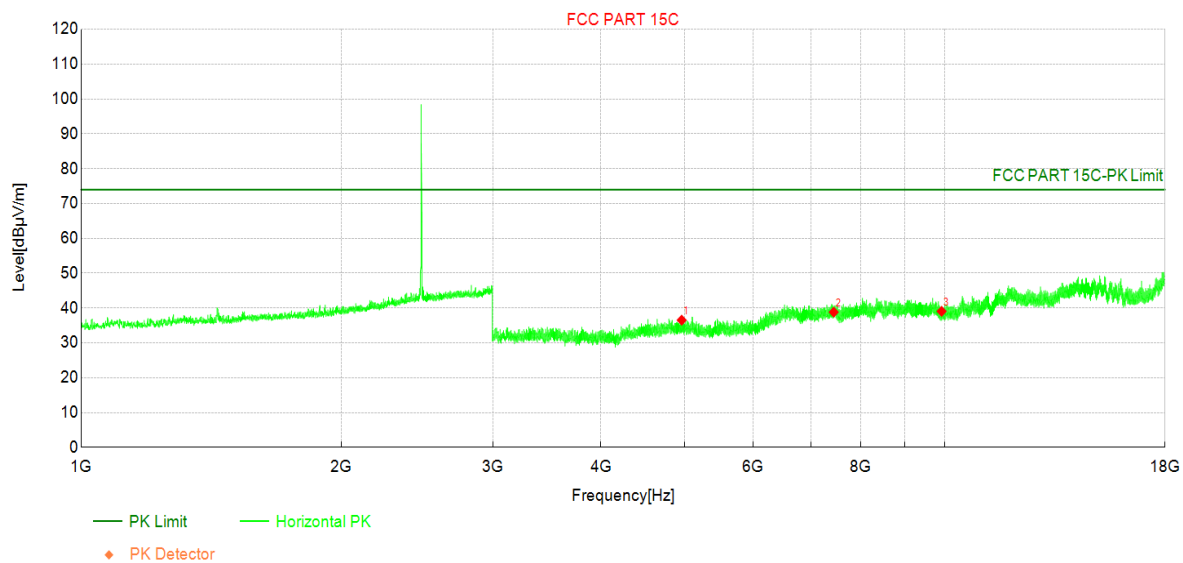


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4882.00	38.71	33.62	-5.09	74.00	40.38	PK	Vertic	PASS
	4882.00	-	8.83	-	54.00	45.17	AV	Vertic	PASS
2	7323.00	35.17	38.30	3.13	74.00	35.70	PK	Vertic	PASS
	7323.00	-	13.51	-	54.00	40.49	AV	Vertic	PASS
3	9764.00	33.41	40.40	6.99	74.00	33.60	PK	Vertic	PASS
	9764.00	-	15.61	-	54.00	38.39	AV	Vertic	PASS

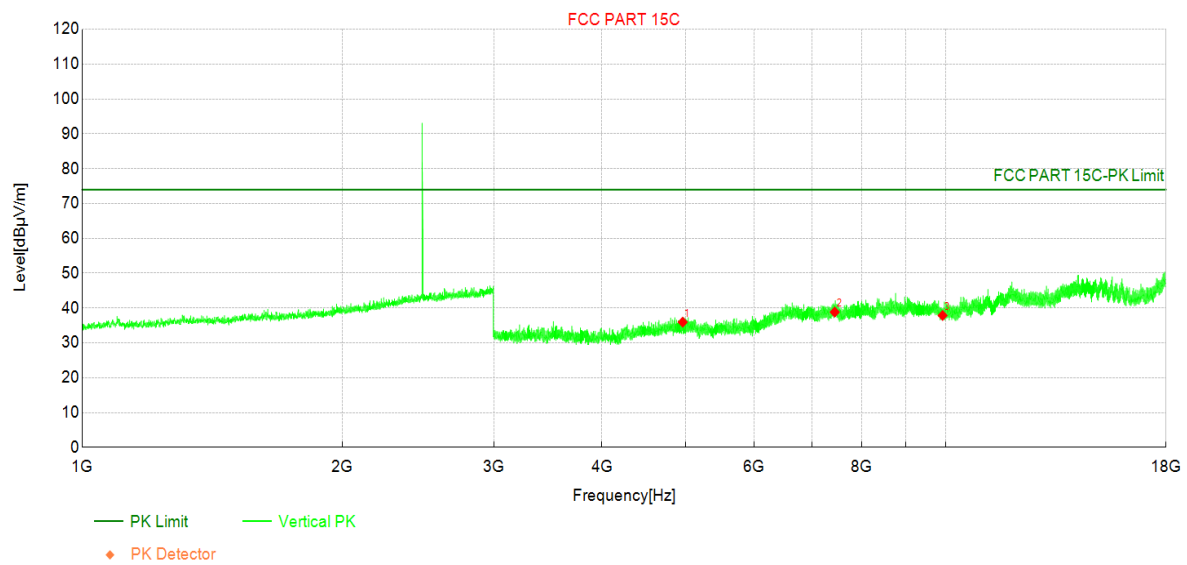
Transmit at 2480MHz by 2DH5

Test Graph



Data List

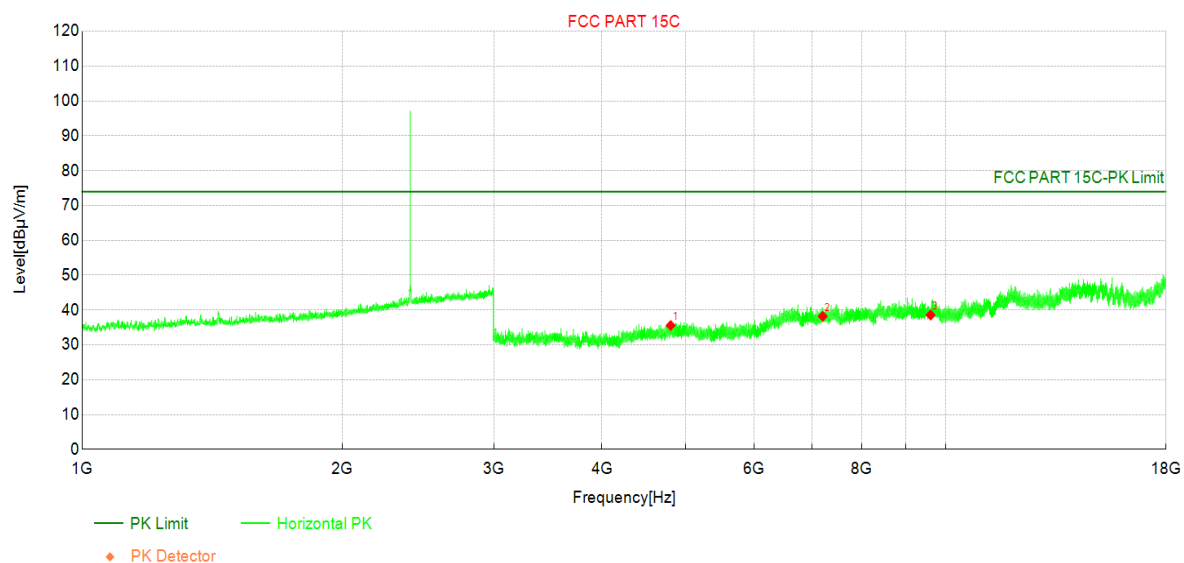
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4960.00	41.50	36.52	-4.98	74.00	37.48	PK	Horizo	PASS
	4960.00	-	11.73	-	54.00	42.27	AV	Horizo	PASS
2	7440.00	35.36	38.81	3.45	74.00	35.19	PK	Horizo	PASS
	7440.00	-	14.02	-	54.00	39.98	AV	Horizo	PASS
3	9920.00	32.40	39.06	6.66	74.00	34.94	PK	Horizo	PASS
	9920.00	-	14.27	-	54.00	39.73	AV	Horizo	PASS

Transmit at 2480MHz by 2DH5*Test Graph***Data List**

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4960.00	40.93	35.95	-4.98	74.00	38.05	PK	Vertic	PASS
	4960.00	-	11.16	-	54.00	42.84	AV	Vertic	PASS
2	7440.00	35.39	38.84	3.45	74.00	35.16	PK	Vertic	PASS
	7440.00	-	14.05	-	54.00	39.95	AV	Vertic	PASS
3	9920.00	31.20	37.86	6.66	74.00	36.14	PK	Vertic	PASS
	9920.00	-	13.07	-	54.00	40.93	AV	Vertic	PASS

Transmit at 2402MHz by 3DH5

Test Graph

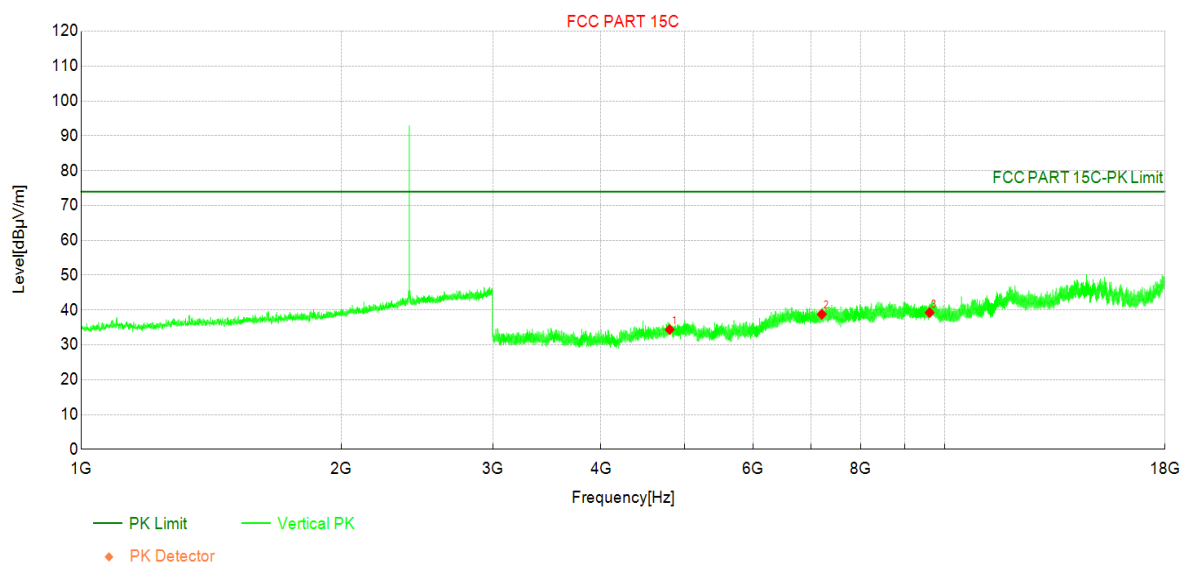


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4804.00	40.55	35.57	-4.98	74.00	38.43	PK	Horizo	PASS
	4804.00	-	10.78	-	54.00	43.22	AV	Horizo	PASS
2	7206.00	35.10	38.21	3.11	74.00	35.79	PK	Horizo	PASS
	7206.00	-	13.42	-	54.00	40.58	AV	Horizo	PASS
3	9608.00	31.99	38.55	6.56	74.00	35.45	PK	Horizo	PASS
	9608.00	-	13.76	-	54.00	40.24	AV	Horizo	PASS

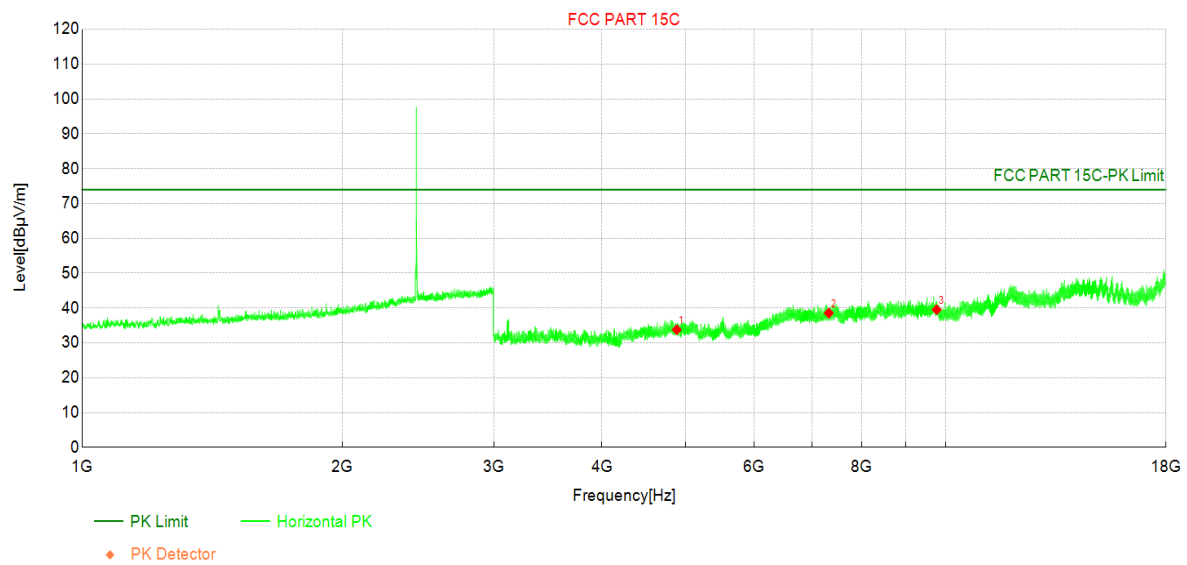
Transmit at 2402MHz by 3DH5

Test Graph



Data List

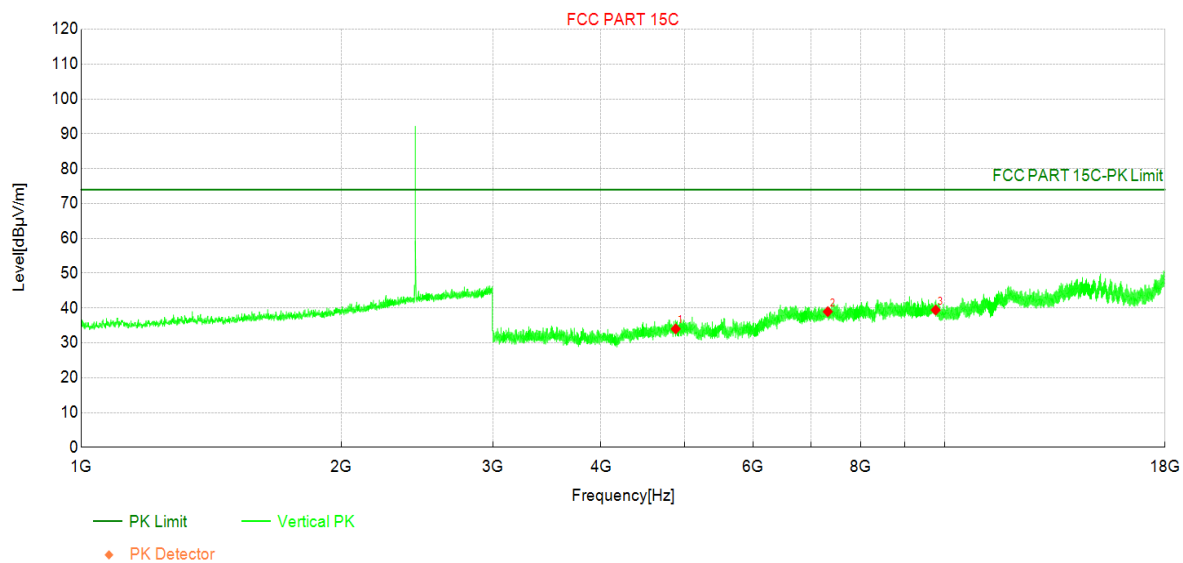
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4804.00	39.35	34.37	-4.98	74.00	39.63	PK	Vertic	PASS
	4804.00	-	9.58	-	54.00	44.42	AV	Vertic	PASS
2	7206.00	35.67	38.78	3.11	74.00	35.22	PK	Vertic	PASS
	7206.00	-	13.99	-	54.00	40.01	AV	Vertic	PASS
3	9608.00	32.69	39.25	6.56	74.00	34.75	PK	Vertic	PASS
	9608.00	-	14.46	-	54.00	39.54	AV	Vertic	PASS

Transmit at 2441MHz by 3DH5*Test Graph***Data List**

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4882.00	38.85	33.76	-5.09	74.00	40.24	PK	Horizo	PASS
	4882.00	-	8.97	-	54.00	45.03	AV	Horizo	PASS
2	7323.00	35.42	38.55	3.13	74.00	35.45	PK	Horizo	PASS
	7323.00	-	13.76	-	54.00	40.24	AV	Horizo	PASS
3	9764.00	32.54	39.53	6.99	74.00	34.47	PK	Horizo	PASS
	9764.00	-	14.74	-	54.00	39.26	AV	Horizo	PASS

Transmit at 2441MHz by 3DH5

Test Graph

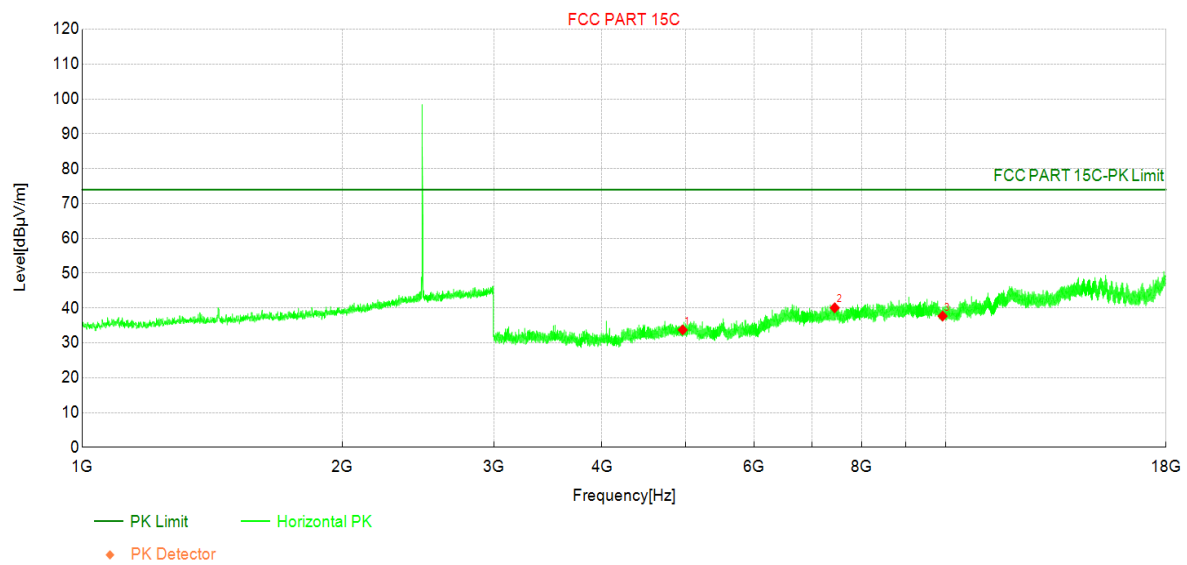


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4882.00	39.10	34.01	-5.09	74.00	39.99	PK	Vertic	PASS
	4882.00	-	9.22	-	54.00	44.78	AV	Vertic	PASS
2	7323.00	35.84	38.97	3.13	74.00	35.03	PK	Vertic	PASS
	7323.00	-	14.18	-	54.00	39.82	AV	Vertic	PASS
3	9764.00	32.43	39.42	6.99	74.00	34.58	PK	Vertic	PASS
	9764.00	-	14.63	-	54.00	39.37	AV	Vertic	PASS

Transmit at 2480MHz by 3DH5

Test Graph

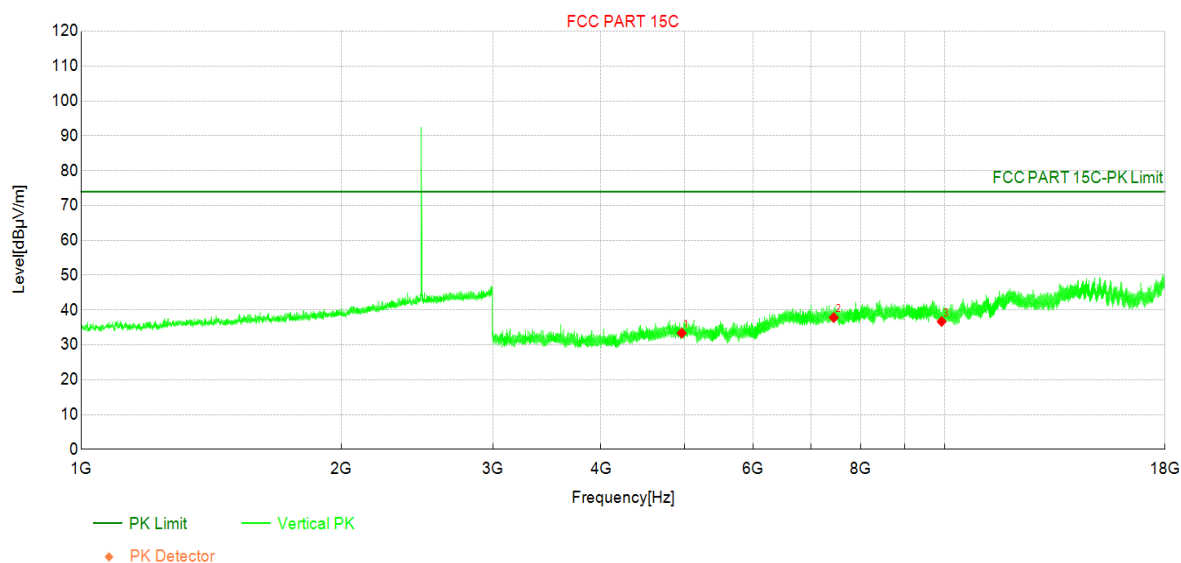


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4960.00	38.70	33.72	-4.98	74.00	40.28	PK	Horizo	PASS
	4960.00	-	8.93	-	54.00	45.07	AV	Horizo	PASS
2	7440.00	36.61	40.06	3.45	74.00	33.94	PK	Horizo	PASS
	7440.00	-	15.27	-	54.00	38.73	AV	Horizo	PASS
3	9920.00	31.03	37.69	6.66	74.00	36.31	PK	Horizo	PASS
	9920.00	-	12.90	-	54.00	41.10	AV	Horizo	PASS

Transmit at 2480MHz by 3DH5

Test Graph



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4960.00	38.36	33.38	-4.98	74.00	40.62	PK	Vertic	PASS
	4960.00	-	8.59	-	54.00	45.41	AV	Vertic	PASS
2	7440.00	34.38	37.83	3.45	74.00	36.17	PK	Vertic	PASS
	7440.00	-	13.04	-	54.00	40.96	AV	Vertic	PASS
3	9920.00	30.03	36.69	6.66	74.00	37.31	PK	Vertic	PASS
	9920.00	-	11.90	-	54.00	42.10	AV	Vertic	PASS

Note:

1. Level = Reading + Factor

2. Margin = Limit - Level, AV Level = PK Level + Duty Cycle Factor.

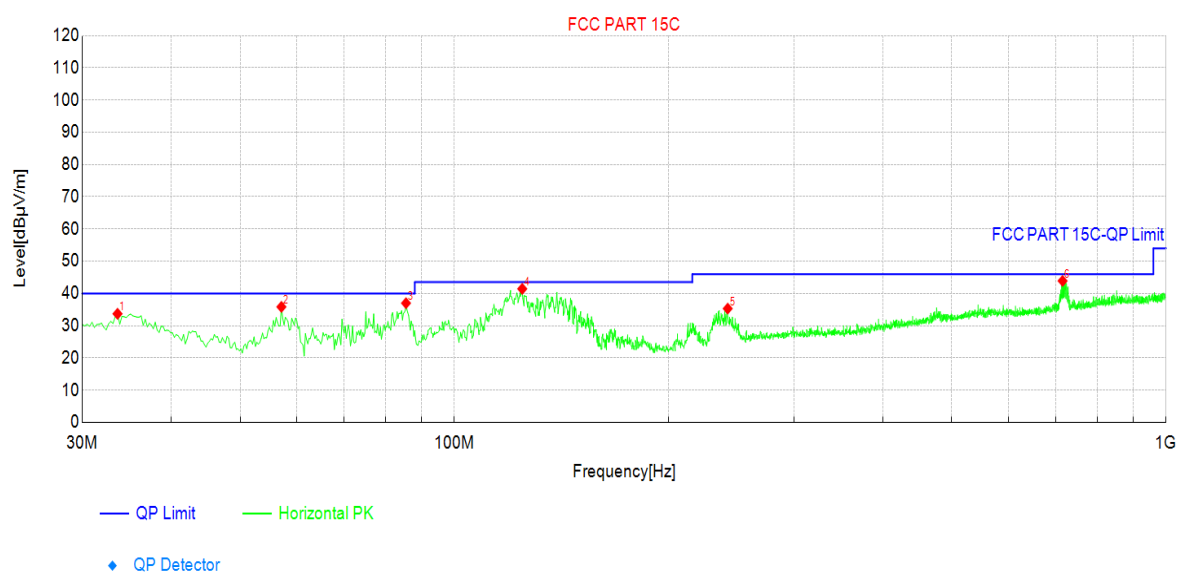
3. The test frequency range, 9kHz~30MHz, worst case are at least 20dB below the limits, therefore no data appear in the report.

4. The test frequency range, 18GHz~26GHz test result on peak is lower than average limit, all is the noise base, therefore no data appear in the report.

The worst case of Radiated Emission below 1GHz :

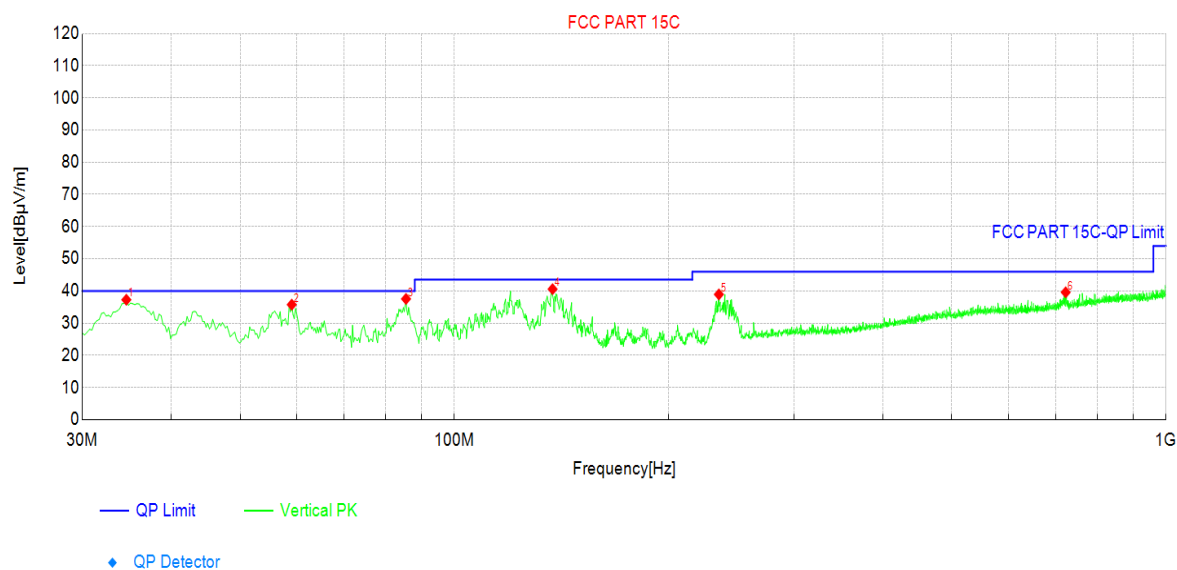
Transmit at 2402MHz by DH5

Test Graph



Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	33.64	15.74	33.69	17.95	40.00	6.31	PK	Horizo	PASS
2	57.16	27.63	35.83	8.20	40.00	4.17	PK	Horizo	PASS
3	85.53	27.22	36.98	9.76	40.00	3.02	PK	Horizo	PASS
4	124.58	27.39	41.43	14.04	43.50	2.07	PK	Horizo	PASS
5	242.19	20.57	35.30	14.73	46.00	10.70	PK	Horizo	PASS
6	715.55	19.99	43.89	23.90	46.00	2.11	PK	Horizo	PASS

Transmit at 2402MHz by DH5**Test Graph****Data List**

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	34.61	19.84	37.26	17.42	40.00	2.74	PK	Vertic	PASS
2	59.10	27.84	35.74	7.90	40.00	4.26	PK	Vertic	PASS
3	85.53	27.76	37.52	9.76	40.00	2.48	PK	Vertic	PASS
4	137.43	26.90	40.56	13.66	43.50	2.94	PK	Vertic	PASS
5	235.40	24.76	38.93	14.17	46.00	7.07	PK	Vertic	PASS
6	722.82	15.60	39.58	23.98	46.00	6.42	PK	Vertic	PASS

Note:

1. All Readings below 1GHz are PK, PK as an alternative to CISPR quasi-peak measurements or average measurements.
2. Level=Reading+Factor.

The End
