

Report No.: XEWA2310000073RG03

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TEST REPORT

Application No.: XEWA2310000073RG

Applicant: Harman International Industries Incorporated
Address of Applicant: 30001, Cabot Drive, Novi, MI 48377, USA
Manufacturer: Harman International Industries Incorporated
Address of Manufacturer: 30001, Cabot Drive, Novi, MI 48377, USA

EUT Description: Toyota La-DCM **Model No.:** TYT25_LT_AA

Trade Mark: HARMAN

FCC ID: 2AHPN-TYT25-LT-AA

Standards: FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

Date of Receipt: 2023/11/01

Date of Test: 2023/11/18 to 2024/01/08

Date of Issue: 2024/01/10

Test Result : PASS *

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

Mus chen

Linus Chen Wireless Laboratory Manager



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1 Version

Revision Record						
Version Chapter Date Modifier Remark						
01		2024/01/10		Original		

Prepared By	(Leah Chen) / Test Engineer
Checked By	Andy Yao /Reviewer





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2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result	Test Lab*
Antenna Requirement	15.203/15.247(b)		Clause 4.1	PASS	
AC Power Line Conducted Emission	15.207	ANSI C63.10-2013 Section 6.2	Clause 4.3	PASS	A
Conducted Peak Output Power	15.247 (b)(1)	ANSI C63.10-2013 Section 11.9.1.3	Clause 4.4	PASS	В
20dB Emission Bandwidth & 99% Occupied Bandwidth	15.247 (a)(1)	ANSI C63.10-2013 Section 6.9.2/6.9.3	Clause 4.5	For Report Purpose	В
Carrier Frequencies Separation	15.247 (a)(1)	ANSI C63.10-2013 Section 7.8.2	Clause 4.6	PASS	В
Hopping Channel Number	15.247 (a)(1)	ANSI C63.10-2013 Section 7.8.3	Clause 4.7	PASS	В
Dwell Time	15.247 (a)(1)	ANSI C63.10-2013 Section 7.8.4	Clause 4.8	PASS	В
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10-2013 Section 7.8.7.2	Clause 4.9	PASS	В
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10-2013 Section 7.8.7.1	Clause 4.10	PASS	В
Radiated Spurious emissions	15.247(d); 15.205/15.209	ANSI C63.10-2013 Section 6.4 / 6.5 / 6.6	Clause 4.11	PASS	A
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d); 15.205/15.209	ANSI C63.10-2013 Section 6.10.5	Clause 4.12	PASS	А

Remark*:

Lab A SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.

Lab B Compliance Certification Services (Kunshan) Inc.



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3 General Information

3.1 Details of Client

Applicant:	Harman International Industries Incorporated
Address of Applicant:	30001, Cabot Drive, Novi, MI 48377, USA
Manufacturer:	Harman International Industries Incorporated
Address of Manufacturer:	30001, Cabot Drive, Novi, MI 48377, USA

3.2 Test Location

Lab A:	
Company:	SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.
Address:	1/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi' an, Shaanxi China
Post code:	710086
Test engineer:	Jacky Xue
Lab B:	
Company:	Compliance Certification Services (Kunshan) Inc.
Address:	No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.
Contact Information:	Tel: +86 512 5735 5888 Fax: +86 512 5737 0818
Test engineer:	Hans Han



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3.3 Test Facility

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

Lab A:

•A2LA (Certificate No. 4854.01)

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0095.

IC#: 25613.

• FCC -Designation Number: CN1337

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized as an accredited testing

laboratory.

Designation Number: CN1337.

Test Firm Registration Number: 917410

Lab B:

A2LA

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• FCC

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

ISED

Compliance Certification Services (Kunshan) Inc.has been recognized by Innovation, Science and Econamic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

• VCCI

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.:R-20134, R-11600, C-11707, T-11499, G-10216 respectively.



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3.4 General Description of EUT

EUT Description:	Toyota La-DCM	Toyota La-DCM				
Model No.:	TYT25_LT_AA					
Trade Mark:	HARMAN					
Hardware Version:	0.0.3					
Software Version:	TYTLLADCM_R04.5D					
Power Supply:	12V					
INACI	RF Conducted	356590670015700				
IMEI:	RSE & AC power line	356590670015866				
Operation Frequency:	2400MHz~2483.5MHz fc = 2402 MHz + N * 1 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 78.					
Bluetooth version:	Bluetooth V5.0					
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)					
Modulation Type:	GFSK, π/4DQPSK, 8DPSK					
Number of Channel:	79	79				
Hopping Channel Type:	Adaptive Frequency Hoppin	g systems				
Antenna Type:	☐ External, ☐ Integrated					
	2.92 dBi(Ant2)					
Antenna Gain:	Note: The antenna gain are derived from the gain information report provided by the manufacturer.					
RF Cable:	1.0dB					
Remark: As above information is provided suitability, reliability or/and integri		nt. SGS is not liable to the accuracy,				



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

Remark:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel(CH0)	2402MHz
The Middle channel(CH39)	2441MHz
The Highest channel(CH78)	2480MHz



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3.5 Test Environment

Environment Parameter	96.0~101.0 kPa Selected Values During Tests				
Relative Humidity	40-60 % RH Ambient				
Value	Temperature(°C)	Voltage(V)			
NTNV	22~25	12			
Remark:					

NV: Normal Voltage NT: Normal Temperature

3.6 Description of Support Units

The EUT has been tested as an independent unit.



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(b)

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

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.

The antenna is Integrated Antenna and no consideration of replacement.

The best case gain of the antenna is 2.92 dBi(Ant2).*

*Note:

The antenna gain are derived from the gain information report provided by the manufacturer. Remark:

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



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4.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence

4.2.1 Test Requirement:

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

4.2.2 Conclusion

Standard Requirement:

The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudo randomly 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.

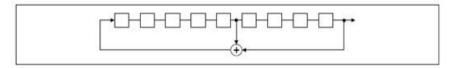
Compliance for section 15.247(a)(1):

According to Technical Specification, the pseudo random 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: 29 -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:



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:

20 62 46 77 7 64 8 73 16.75 1



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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):

Compliance for section 15.247(h):

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 RF system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.

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.



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4.3 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207						
Test Method:	ANSI C63.10-2013 Section 6.2						
Test Frequency Range:	150kHz to 30MHz						
Receiver Setup:	RBW = 9kHz, VBW = 30	kHz					
Limit:	Fraguenov rongo (MHz)	Limit (d	BuV)				
	Frequency range (MHz)	Quasi-peak	Average				
	0.15-0.5	66 to 56*	56 to 46*				
	0.5-5	56	46				
	5-30	60	50				
	* Decreases with the loga	arithm of the frequency.					
Test Procedure:	 The mains terminal disturbance voltage test was conducted in a shielded room. The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI 						



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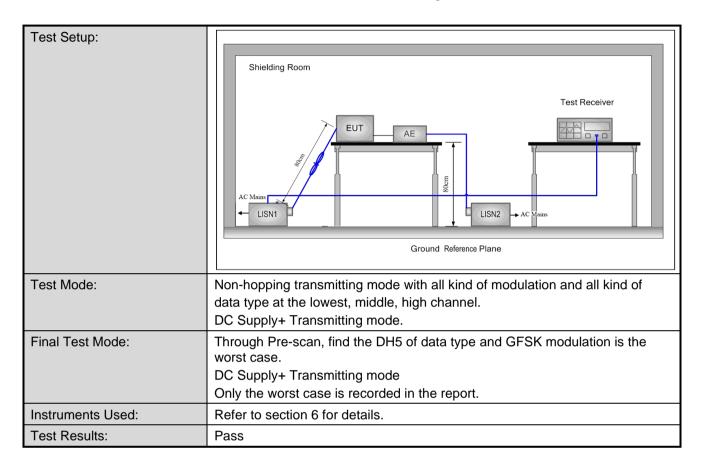
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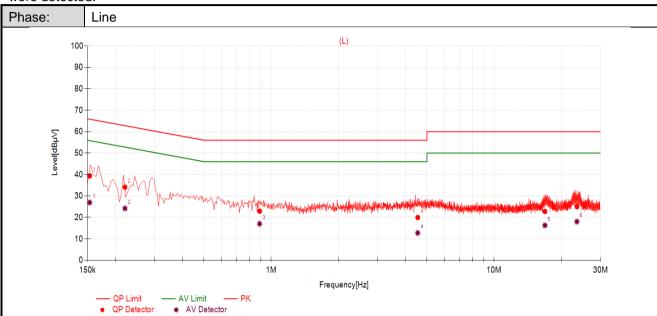
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



Data	Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1534	9.86	29.50	39.36	65.81	26.45	17.09	26.95	55.81	28.86	PASS
2	0.2208	9.85	24.24	34.09	62.79	28.70	14.33	24.18	52.79	28.61	PASS
3	0.8876	9.88	13.04	22.92	56.00	33.08	7.14	17.02	46.00	28.98	PASS
4	4.5451	9.89	10.06	19.95	56.00	36.05	2.89	12.78	46.00	33.22	PASS
5	16.9161	10.22	12.55	22.77	60.00	37.23	6.06	16.28	50.00	33.72	PASS
6	23.5503	10.30	14.70	25.00	60.00	35.00	7.74	18.04	50.00	31.96	PASS

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[$dB\mu V$] Value[$dB\mu V$]



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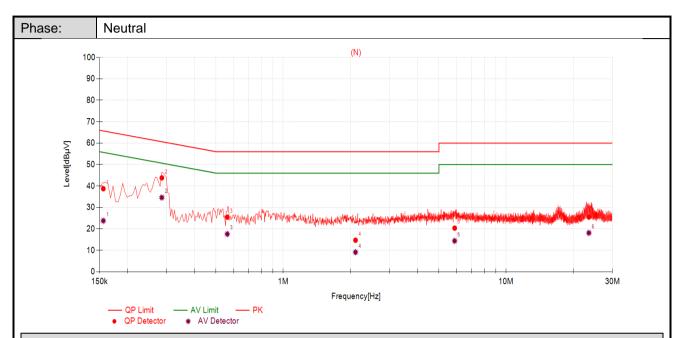
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Data	List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1559	9.78	28.96	38.74	65.68	26.94	14.01	23.79	55.68	31.89	PASS
2	0.2854	9.79	33.99	43.78	60.66	16.88	24.83	34.62	50.66	16.04	PASS
3	0.5614	9.86	15.61	25.47	56.00	30.53	7.74	17.60	46.00	28.40	PASS
4	2.1116	9.87	4.85	14.72	56.00	41.28	-0.75	9.12	46.00	36.88	PASS
5	5.8812	10.02	10.33	20.35	60.00	39.65	4.38	14.40	50.00	35.60	PASS
6	23.5437	10.31	15.21	25.52	60.00	34.48	7.81	18.12	50.00	31.88	PASS

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dB μ V] + Factor(Lisn factor[dB] + cable loss[dB]). 3. Margin = Limit[dB μ V] Value[dB μ V]



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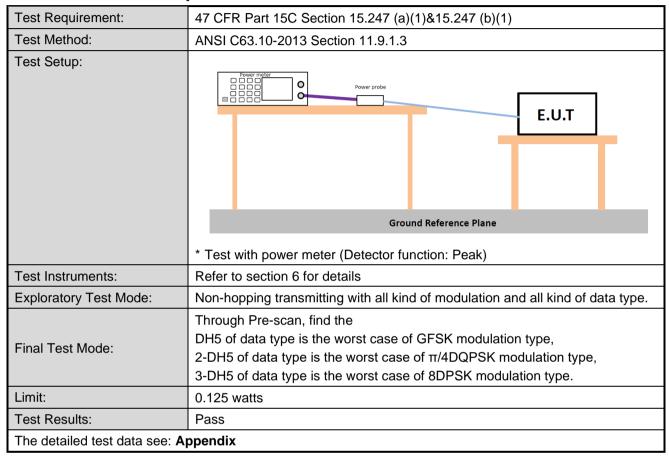


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4.4 Conducted Output Power





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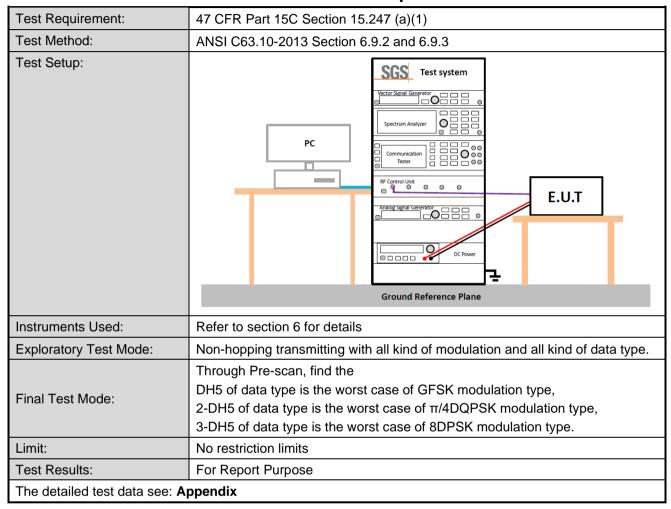


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4.5 20dB Emission Bandwidth & 99% Occupied Bandwidth





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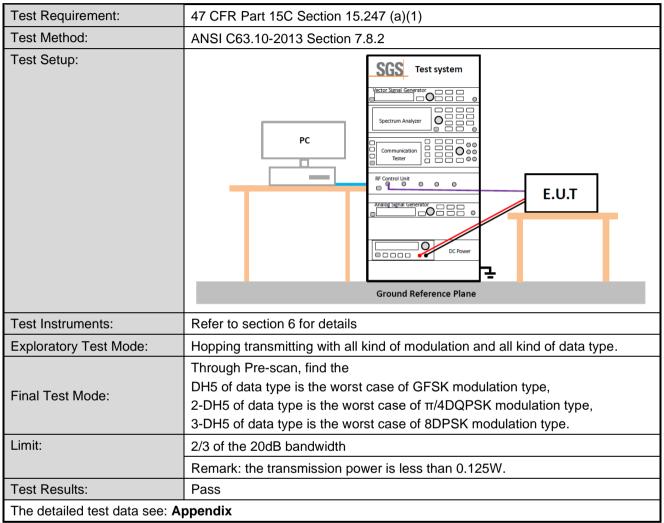


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4.6 Carrier Frequencies Separation





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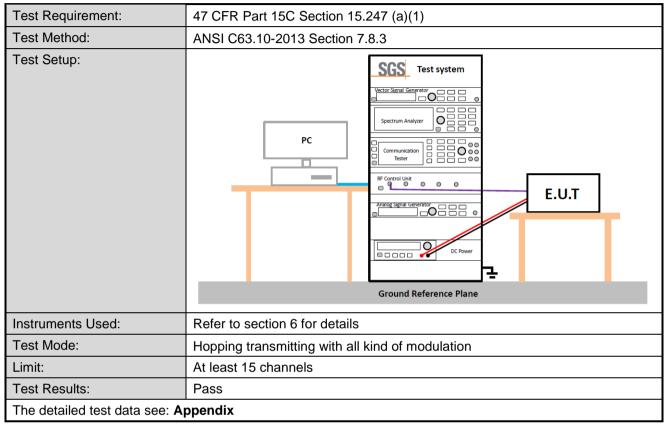


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4.7 Hopping Channel Number





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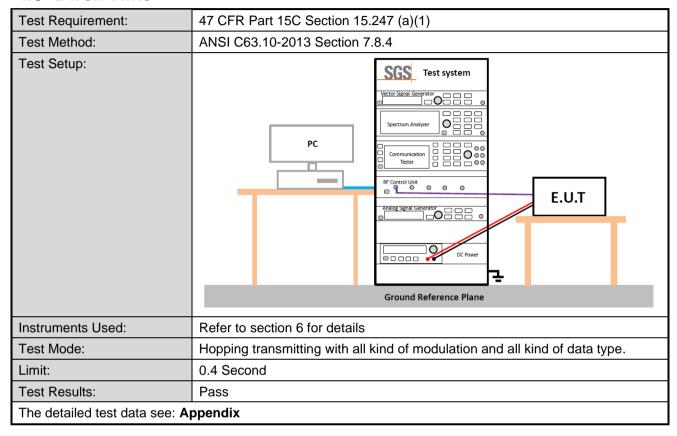


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4.8 Dwell Time





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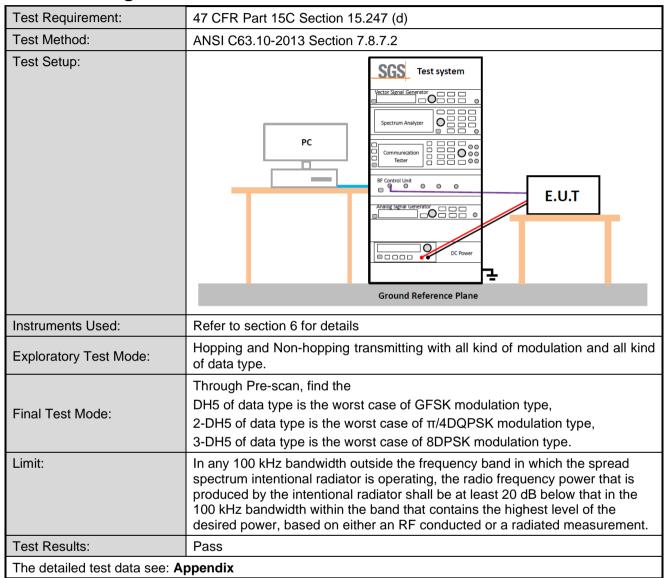


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4.9 Band-edge for RF Conducted Emissions





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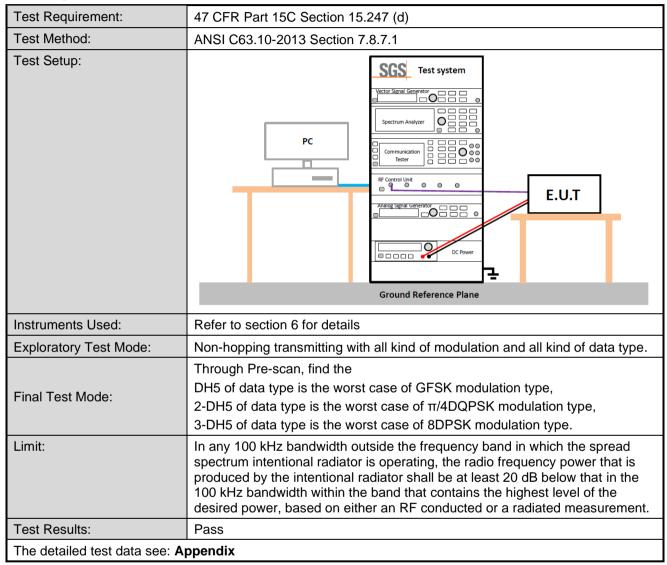


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4.10 Spurious RF Conducted Emissions





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4.11 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205						
Test Method:	ANSI C63.10-2013 Section 6.4 / 6.5 / 6.6						
Test Site:	Measurement Distance: 3	m (Semi-Anechoic	Chamber)				
Test Frequency:	9kHz ~ 25GHz						
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)		
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300		
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30		
	1.705MHz-30MHz	30	-	-	30		
	30MHz-88MHz	100	40.0	Quasi-peak	3		
	88MHz-216MHz	150	43.5	Quasi-peak	3		
	216MHz-960MHz	200	46.0	Quasi-peak	3		
	960MHz-1GHz	500	54.0	Quasi-peak	3		
	Above 1GHz 500 54.0 Average 3						
	Remark: 15.35(b),Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emissi						
	level radiated by the device	e.	·				

Test Setup:

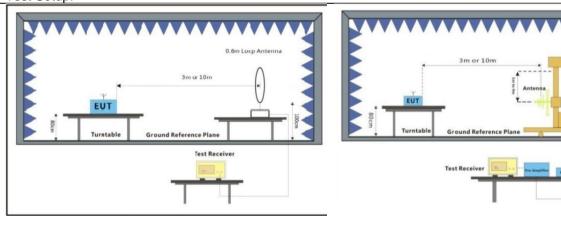




Figure 2. 30MHz to 1GHz



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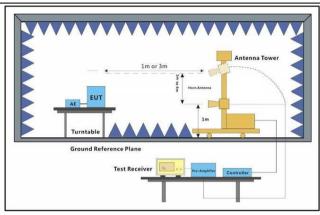


Figure 3. Above 1 GHz

Test Procedure:

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation
 (Distance from antenna to EUT is 1m for measurements >18GHz).
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. 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 worse case.
- i. Repeat above procedures until all frequencies measured was complete.
- j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.
- k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.
- I. At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB.

Test Configuration:

Measurements below 30MHz

- RBW = 10 kHz
- VBW = 30 kHz
- Detector = Peak & Average & Quasi-peak



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	Trace mode = max hold
	Measurements Below 1000MHz
	• RBW = 120 kHz
	• VBW = 300 kHz
	Detector = Quasi-peak
	Trace mode = max hold
	Peak Measurements Above 1000 MHz
	• RBW = 1 MHz
	• VBW ≥ 3 MHz
	Detector = Peak
	Sweep time = auto
	Trace mode = max hold
	Average Measurements Above 1000MHz
	Use duty cycle correction factor method per 15.35(c).
	Duty cycle = On time / 100 milliseconds
	On time = $N_1*L_1 + N_2*L_2+N_{N-1}*L_{N-1} + N_N*L_N$
	Where N_1 is number of type 1 pulese, L_1 is length of type 1 pulses, etc.
	Average Value = Peak Value +20*log(Duty cycle).
	Non-hopping transmitting mode with all kind of modulation and all kind of
Exploratory Test	data type
Mode:	DC Supply+ Transmitting mode.
	Through Pre-scan, find the
	DH5 of data type and GFSK modulation is the worst case.
Final Test Mode:	Pretest the EUT at DC Supply+ Transmitting mode
	For below 1GHz part, through pre-scan all channels, but only the worst case is
	recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data	a see: Appendix



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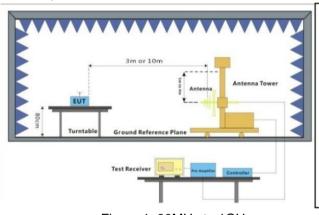
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4.12Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 1	47 CFR Part 15C Section 15.209 and 15.205						
Test Method:	ANSI C63.10-2013 Section	ANSI C63.10-2013 Section 6.10.5						
Test Site:	Measurement Distance: 3m	(Semi-Anechoic Cham	ber)					
Limit:	Frequency Limit (dBuV/m) Remark							
	30MHz-88MHz	40.0	Quasi-peak					
	88MHz-216MHz	43.5	Quasi-peak					
	216MHz-960MHz	46.0	Quasi-peak					
	960MHz-1GHz	54.0	Quasi-peak					
	Above 1GHz	54.0	Average Value					
	Above IGHZ	74.0	Peak Value					

Test Setup:



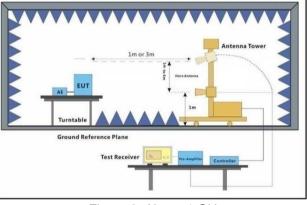


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

Test Procedure:

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified



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	 Bandwidth with Maximum Hold Mode. g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel. h. Test the EUT in the lowest channel , the Highest channel. i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz Use duty cycle correction factor method per 15.35(c). Duty cycle = On time / 100 milliseconds On time = N₁*L₁ + N₂*L₂+N _{N-1} *L _{N-1} + N _N *L _N Where N₁ is number of type 1 pulese, L₁ is length of type 1 pulses, etc. Average Value = Peak Value +20*log(Duty cycle).
Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type DC Supply+ Transmitting mode.
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case. Pretest the EUT at DC Supply+ Transmitting mode, Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see	: Appendix



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5 Measurement Uncertainty (95% confidence levels, k=2)

Lab A:

=46 7 (1		
No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
		± 4.6dB (9KHz to 30MHz)
	Radiated Emission	± 4.9dB (30MHz to 1GHz)
2		± 4.9dB (1GHz to 6GHz)
		± 4.7dB (6GHz to 18GHz)
		± 5.26dB (Above 18GHz)

Remark:

The Ulab (lab Uncertainty) is less than Ucispr/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.

Lab B:

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 ⁻⁸ GHz
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB

Remark:

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI Uncertainty), so the test results

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



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6 Equipment List

Lab A:

CE Test System								
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)			
Shielding Room	Brilliant-emc	N/A	XAW04-03-01	N/A	N/A			
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2023/08/30	2024/08/29			
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2023/06/30	2024/06/29			
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2023/08/30	2024/08/29			
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-07-01	NCR	NCR			
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-07	2023/08/30	2024/08/29			
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-02	2023/06/30	2024/06/29			

Remark: NCR=No Calibration Requirement



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RSE Test System							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/d d)	Cal.Due date (yyyy/mm/d d)		
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2021/09/09	2024/09/08		
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2023/02/16	2024/02/15		
Spectrum Analyzer	ROHDE&SCH WARZ	FSV3044	XAW01-13-05	2023/05/15	2024/05/14		
Test receiver	ROHDE&SCH WARZ	ESR	XAW01-08-01	2023/08/30	2024/08/29		
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2022/07/28	2024/07/27		
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2022/07/28	2024/07/27		
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2022/07/23	2024/07/22		
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR		
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR		
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR		
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR		
Amplifier	Tonscend	TAP9K3G32	XAW01-41-01	2023/05/15	2024/05/14		
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2023/08/30	2024/08/29		
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2023/08/30	2024/08/29		
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2023/08/30	2024/08/29		
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2023/09/04	2024/09/03		
Radio communication analyzer	ROHDE&SCH WARZ	CMW 500	XAW01-03-07	2023/08/30	2024/08/29		
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-05-01	NCR	NCR		
Loop Antenna	Schwarzbeck	FMZB 1519B	XAW01-48-02	2022/05/26	2024/05/25		

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Lab B:

	RF Test Equipment								
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)				
Spectrum Analyzer	Keysight	N9020A	KUS1911E004-2	2023/08/24	2024/08/23				
Spectrum Analyzer	Keysight	N9020A	KUS2001M001-2	2023/08/24	2024/08/23				
Spectrum Analyzer	Keysight	N9030B	KSEM021-1	2023/02/03	2024/02/02				
Signal Generator	R&S	SMBV100B	KSEM032	2023/03/16	2024/03/15				
Signal Generator	R&S	SMW200A	KSEM020-1	2023/08/24	2024/08/23				
Signal Generator	Agilent	N5182A	KUS2001M001-1	2023/08/24	2024/08/23				
Radio Communication Test Station	Anritsu	MT8000A	KSEM001-1	2023/08/24	2024/08/23				
Radio Communication Analyzer	Anritsu	MT8821C	KSEM002-1	2023/03/16	2024/03/15				
Universal Radio Communication Tester	R&S	CMW500	KUS1911E004-1	2023/08/24	2024/08/23				
Switcher	CCSRF	FY562	KUS2001M001-3	2023/08/24	2024/08/23				
AC Power Source	EXTECH	6605	KS301178	NCR	NCR				
DC Power Supply	Aglient	E3632A	KS301180	NCR	NCR				
Conducted Test Cable	Thermax	RF01-RF04	CZ301111- CZ301120	2023/02/03	2024/02/02				
Temp. / Humidity Chamber	TERCHY	MHK-120AK	KS301190	2023/08/24	2024/08/23				
Temperature & Humidity Recorder	Renke Control	RS-WS-N01-6J	KSEM024-5	2023/03/22	2024/03/21				
Software	BST	TST-PASS	/	NCR	NCR				

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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Occupied Channel Bandwidth Test Result

Mode	TX	Frequency	Packet	ANT	99% Occupied E	Bandwidth (MHz)	Verdict
iviode	Type	(MHz)	Type	AINT	Result	Limit	verdict
		2402	DH5	2	0.918	/	Pass
GFSK	SISO	2441	DH5	2	0.916	/	Pass
		2480	DH5	2	0.919	/	Pass
		2402	2DH5	2	1.179	/	Pass
Pi/4DQPSK	SISO	2441	2DH5	2	1.178	/	Pass
		2480	2DH5	2	1.180	/	Pass
		2402	3DH5	2	1.183	/	Pass
8DPSK	SISO	2441	3DH5	2	1.185	/	Pass
		2480	3DH5	2	1.185	/	Pass



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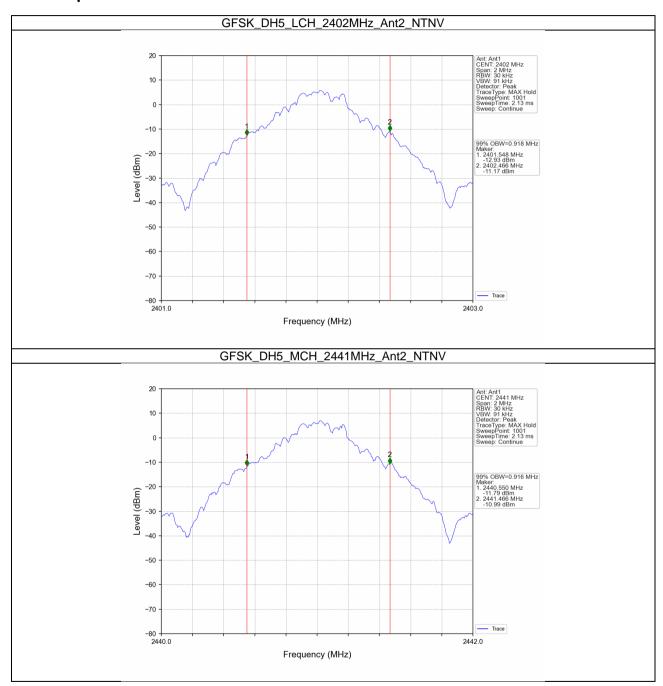


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Test Graphs





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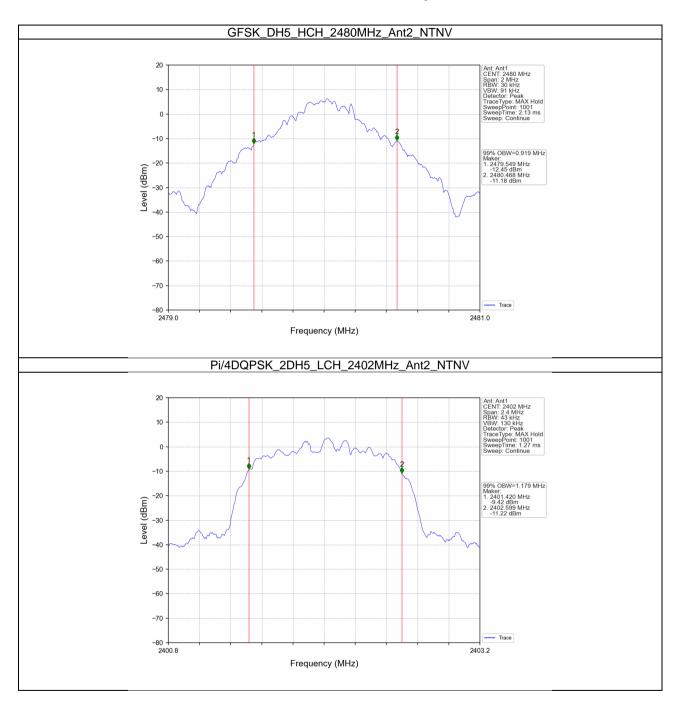
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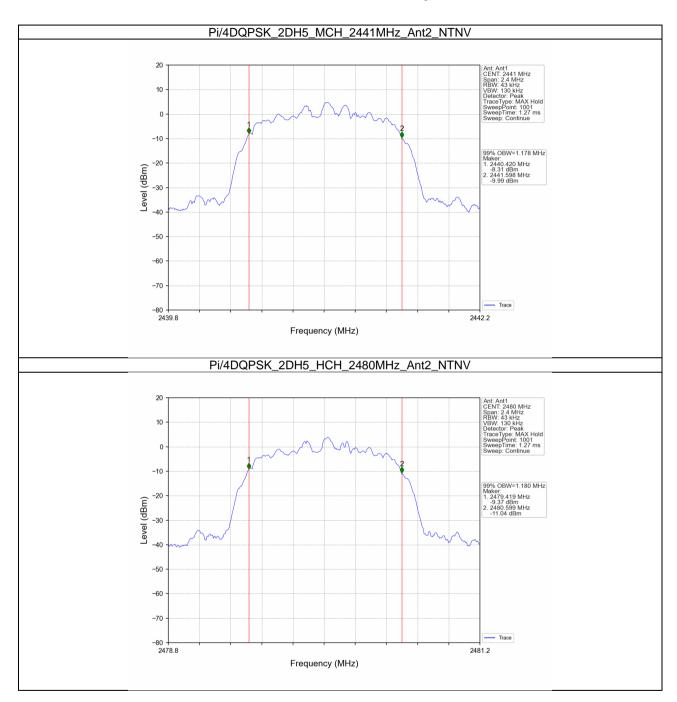
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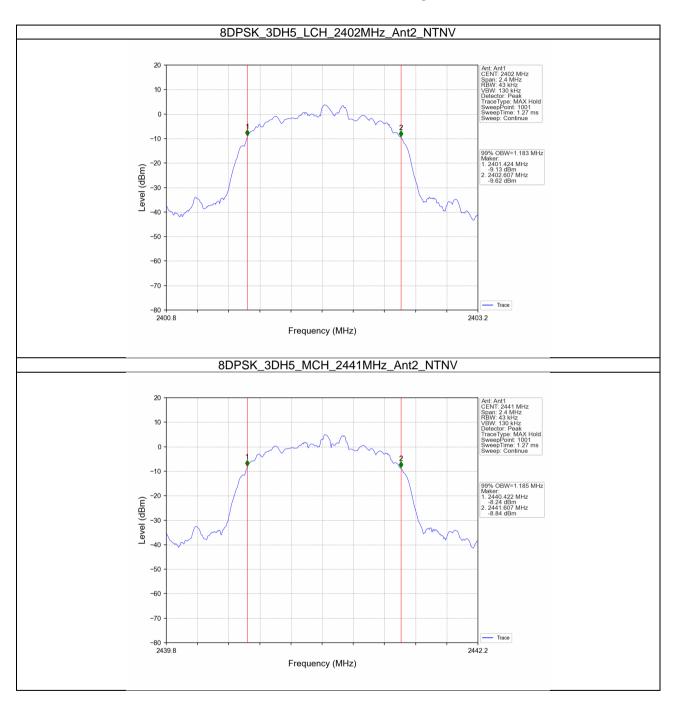
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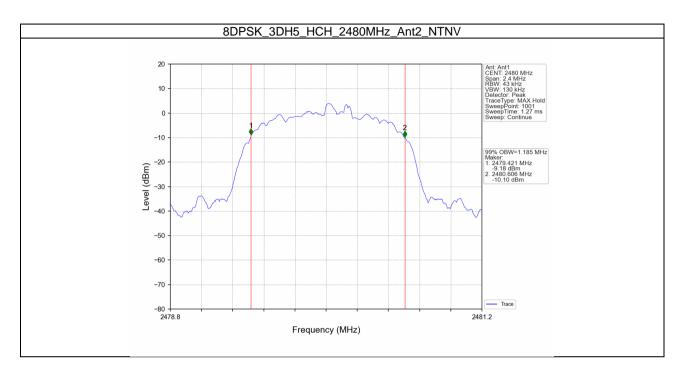
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20dB Emission Bandwidth Test Result

Mode	TX	Frequency	Packet	ANT	20dB Bandwidth (MHz)		Verdict
iviode	Type	(MHz)	Type	AINT	Result	Limit	verdict
		2402	DH5	2	1.013	/	Pass
GFSK	SISO	2441	DH5	2	1.017	/	Pass
		2480	DH5	2	1.000	/	Pass
		2402	2DH5	2	1.310	/	Pass
Pi/4DQPSK	SISO	2441	2DH5	2	1.319	/	Pass
		2480	2DH5	2	1.308	/	Pass
		2402	3DH5	2	1.317	/	Pass
8DPSK	SISO	2441	3DH5	2	1.317	/	Pass
		2480	3DH5	2	1.319	/	Pass



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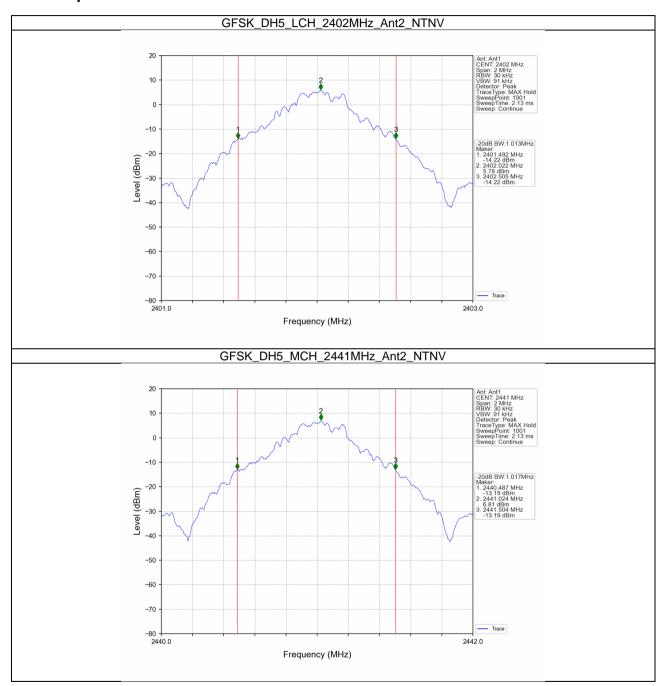


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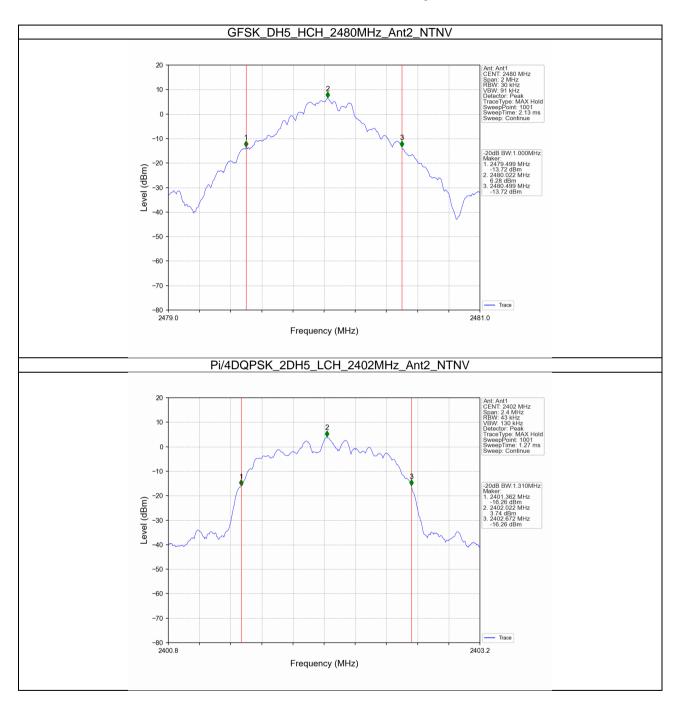
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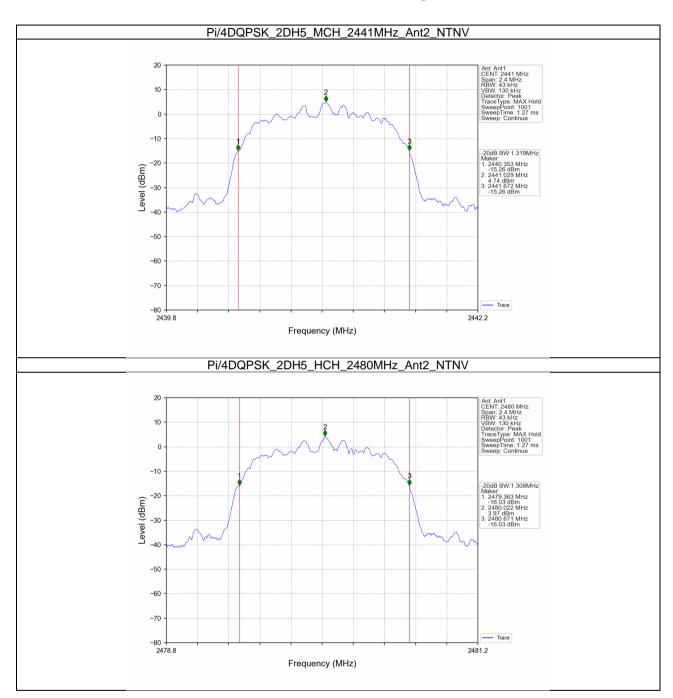
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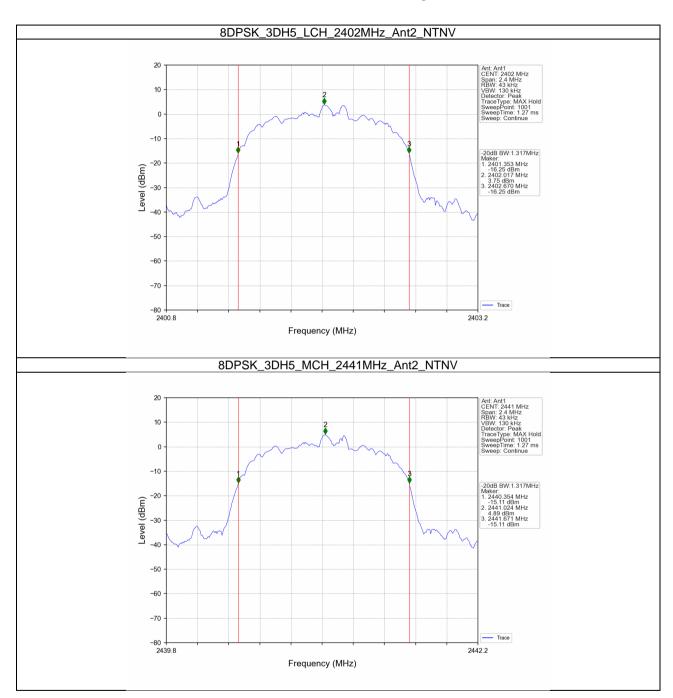
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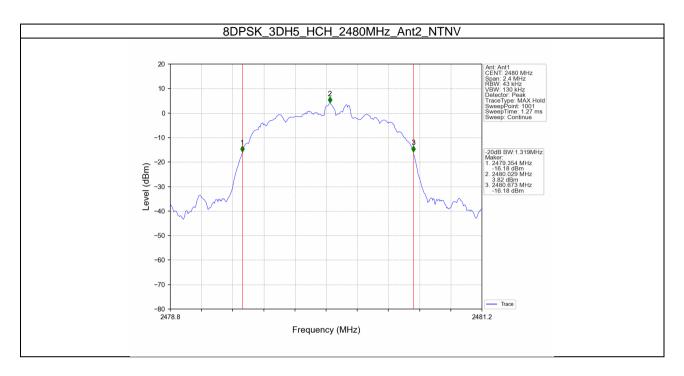
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Maximum conducted output power Test Result

Mode	TX	Frequency	Packet Maximum Peak Conducted Output Power (dBm)			Verdict		
Mode	Type	(MHz)	Type	ANT2	Limit	verdict		
		2402	DH5	7.88	<=30.00	Pass		
GFSK	SISO	2441	DH5	8.94	<=30.00	Pass		
		2480	DH5	8.02	<=30.00	Pass		
		2402	2DH5	7.03	<=20.97	Pass		
Pi/4DQPSK	SISO	2441	2DH5	8.10	<=20.97	Pass		
		2480	2DH5	7.16	<=20.97	Pass		
		2402	3DH5	7.49	<=20.97	Pass		
8DPSK	SISO	2441	3DH5	8.55	<=20.97	Pass		
		2480	3DH5	7.61	<=20.97	Pass		
Note1: Antenna Gain: Ant2: 2.92dBi;								



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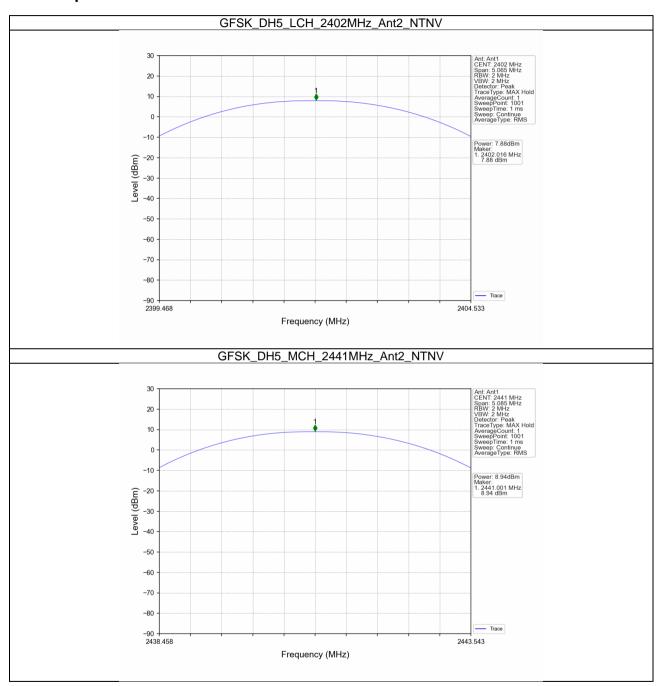


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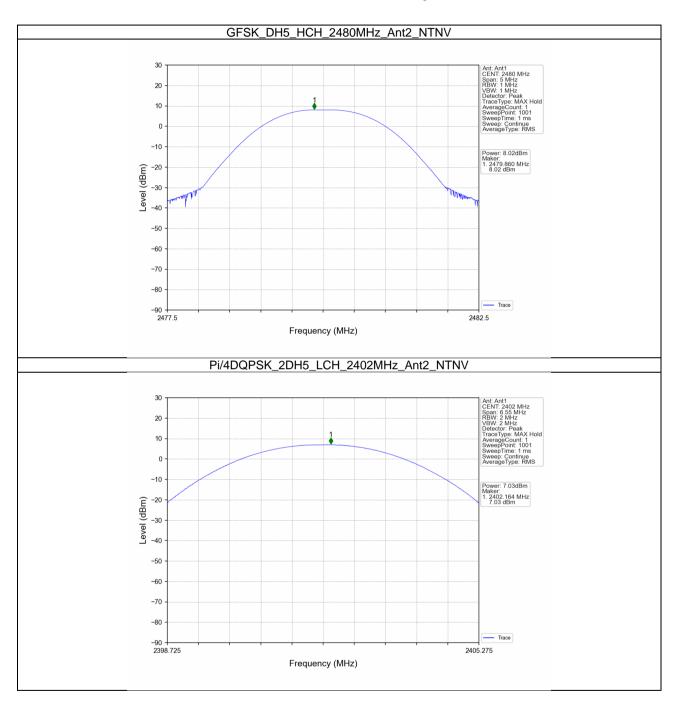
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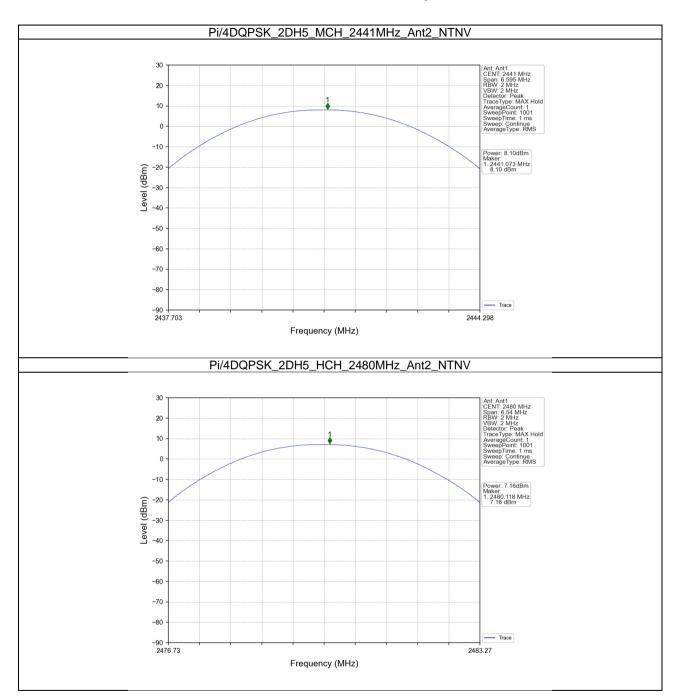
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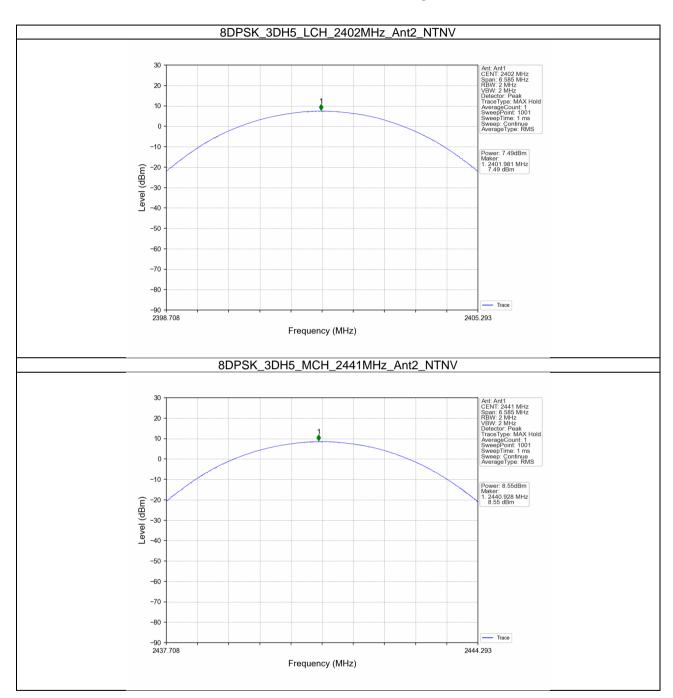
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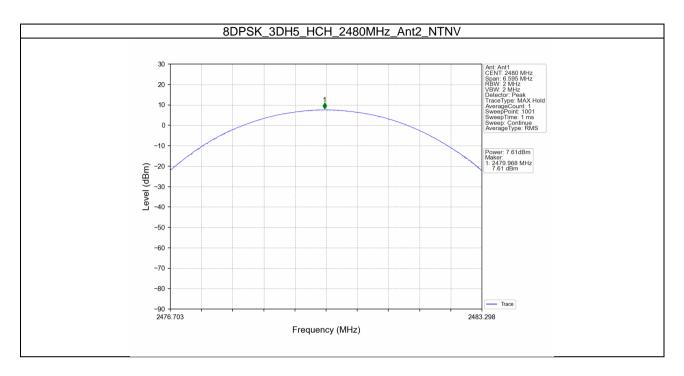
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Carrier frequency separation Test Result

Ant2									
Modo	TX	Frequency	Packet	Channel Separation	20dB Bandwidth	Limit	Verdict		
Mode Type		(MHz)	Type	(MHz)	(MHz)	(MHz)	verdict		
GFSK	SISO	HOPP	DH5	1.012	1.017	>=0.678	Pass		
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.319	>=0.879	Pass		
8DPSK	SISO	HOPP	3DH5	1.001	1.319	>=0.879	Pass		



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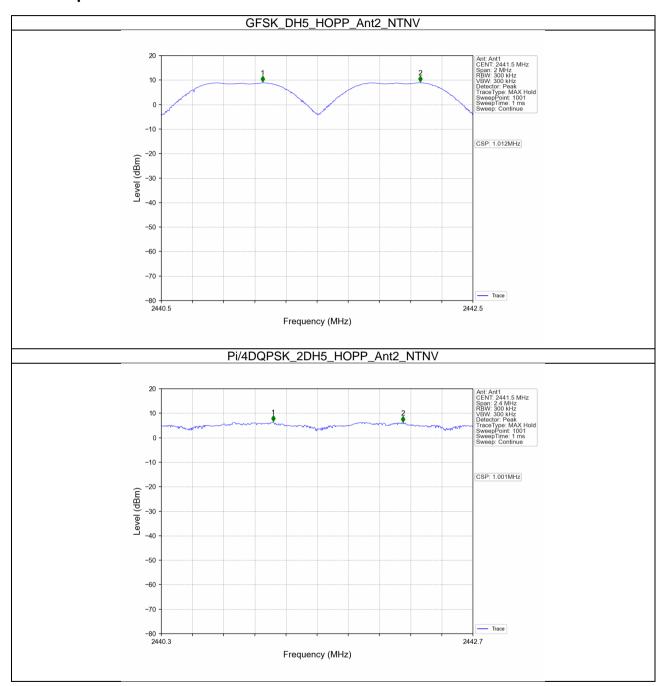


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Test Graphs





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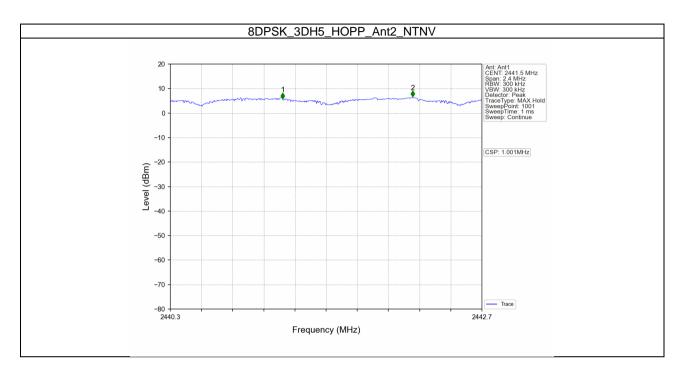
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Number of hopping channels Test Result

Mode TX		Frequency	Frequency Packet		Num of Hopping Frequencies		
iviode	Type	(MHz)	Type	ANT2	Limit	Verdict	
GFSK	SISO	HOPP	DH5	79	>=15	Pass	
Pi/4DQPSK	SISO	HOPP	2DH5	79	>=15	Pass	
8DPSK	SISO	HOPP	3DH5	79	>=15	Pass	

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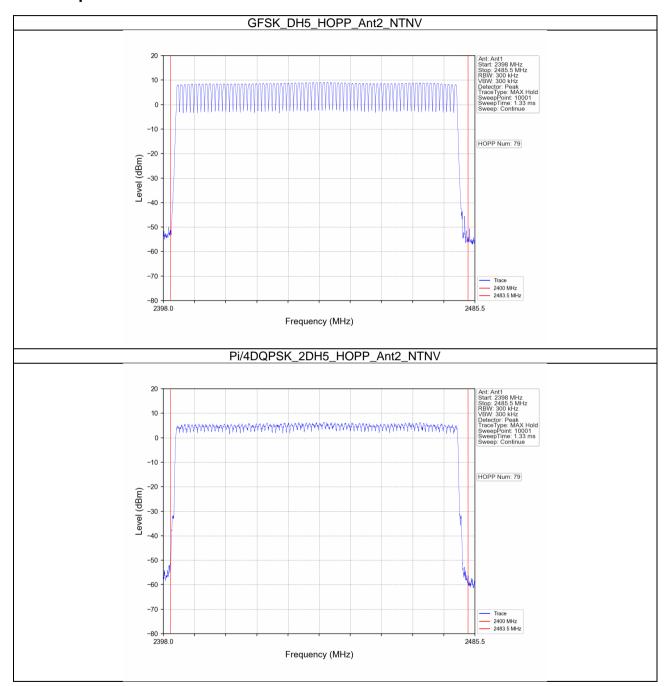


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Test Graphs





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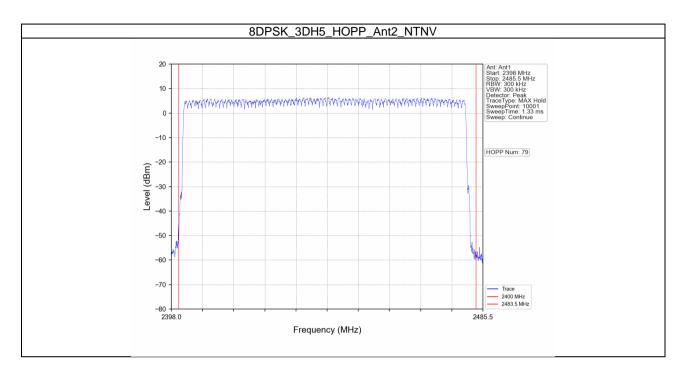
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Time of Occupancy (Dwell Time) Test Result

Ant2									
Mode	TX	Frequency	Packet	Duration of	Observation	Num of Pulse in	Dwell	Limit	Verdict
Mode	Type	(MHz)	Type	Single Pulse (ms)	Period (s)	Observation Period	Time (ms)	(ms)	verdict
			DH1	0.388	31.600	321	124.548	<=400	Pass
GFSK	SISO	HOPP	DH3	1.644	31.600	161	264.684	<=400	Pass
			DH5	2.888	31.600	118	340.784	<=400	Pass
			2DH1	0.392	31.600	320	125.440	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH3	1.652	31.600	153	252.756	<=400	Pass
			2DH5	2.892	31.600	109	315.228	<=400	Pass
			3DH1	0.392	31.600	320	125.440	<=400	Pass
8DPSK	SISO	HOPP	3DH3	1.650	31.600	156	257.400	<=400	Pass
			3DH5	2.906	31.600	103	299.318	<=400	Pass



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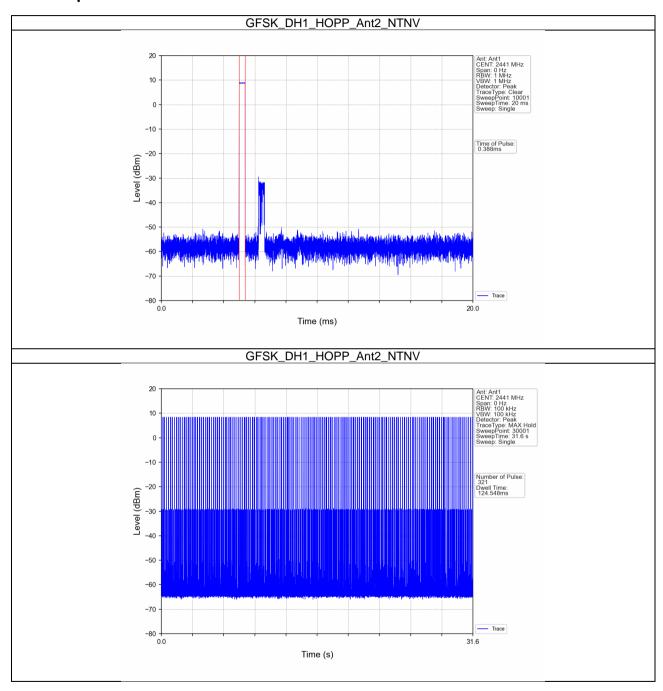


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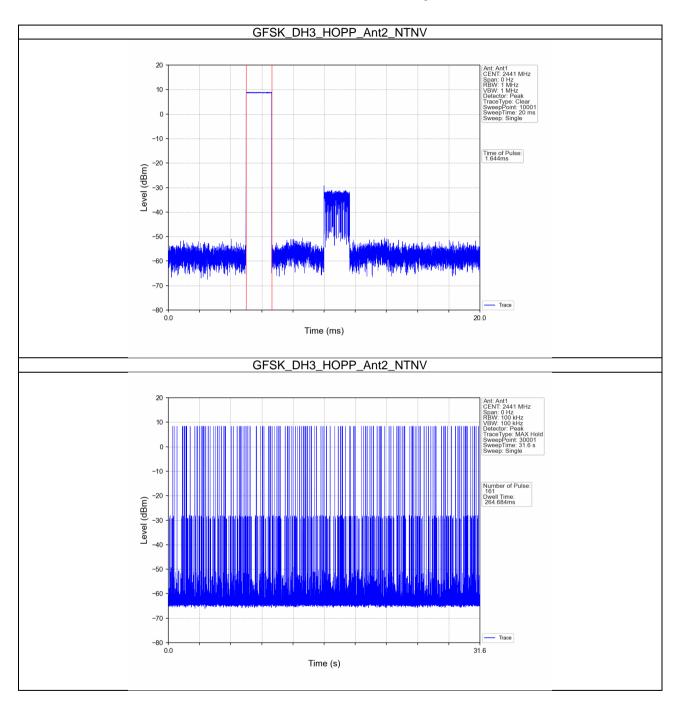
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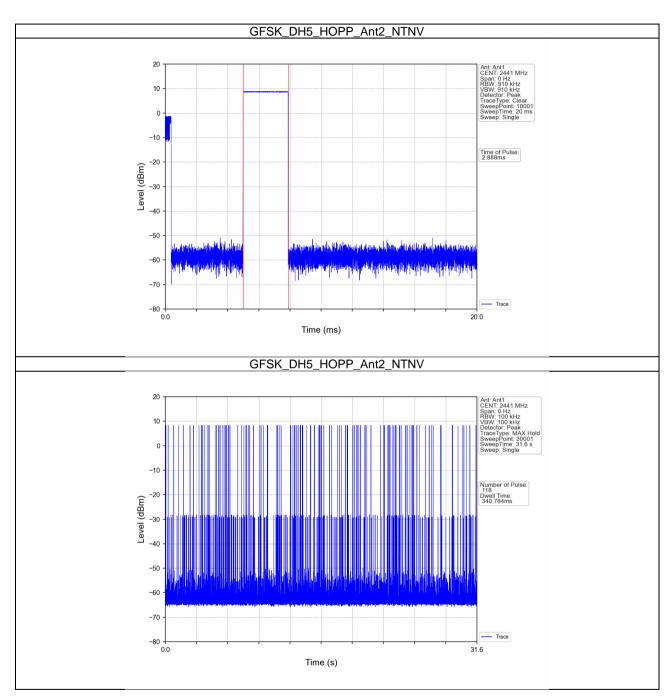
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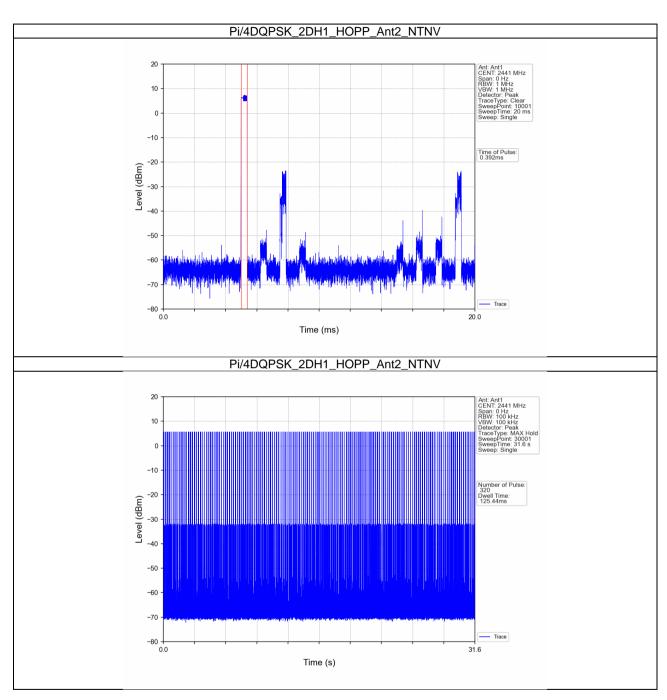
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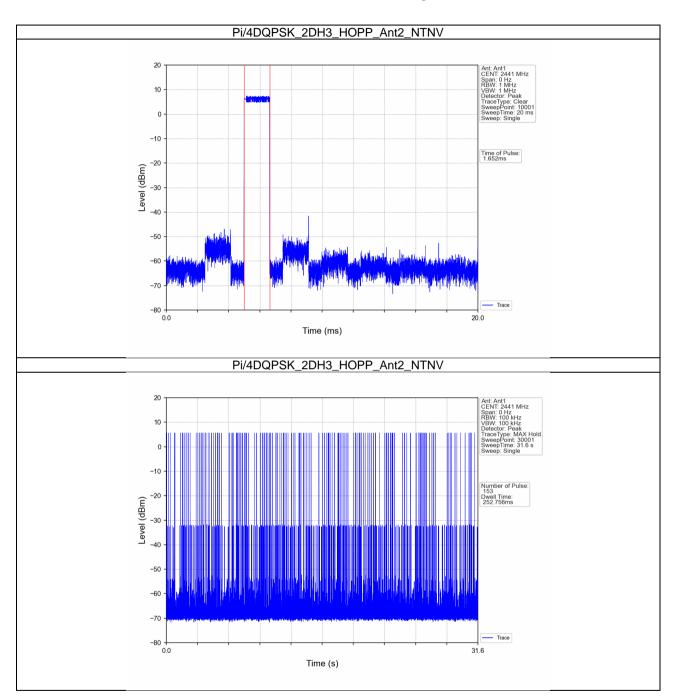
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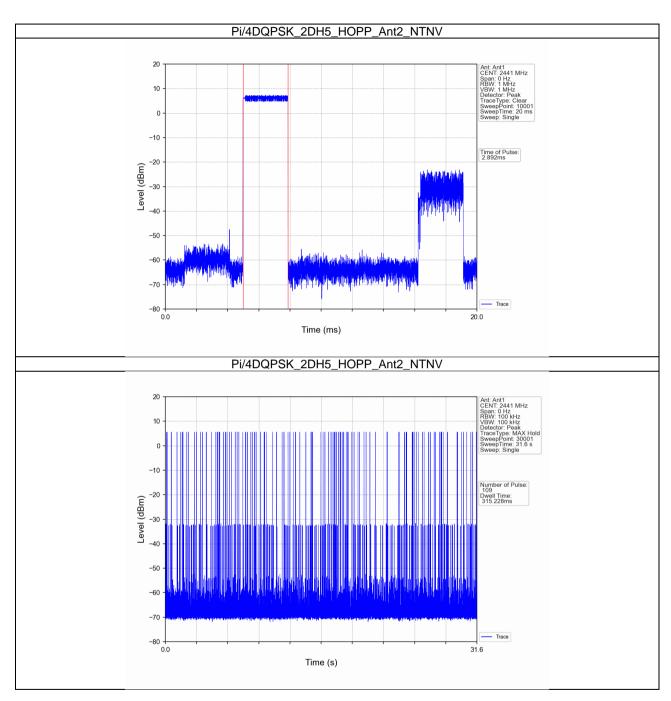
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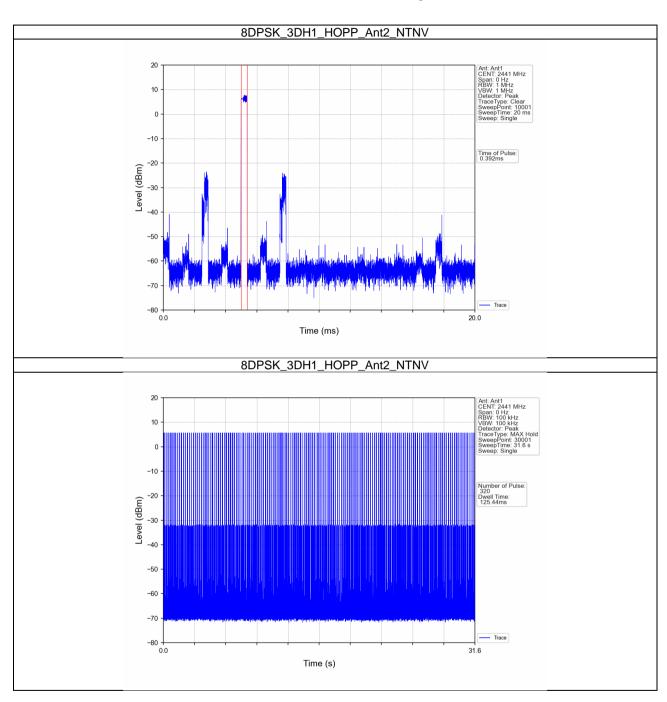
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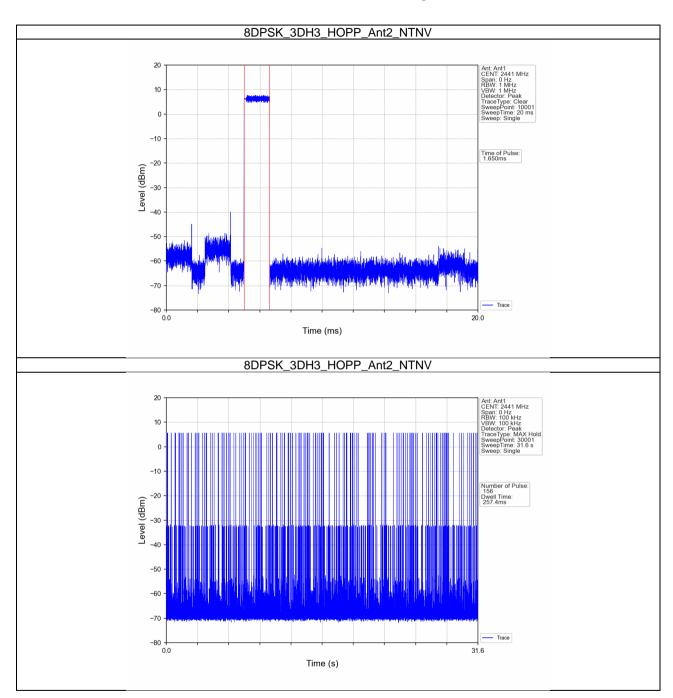
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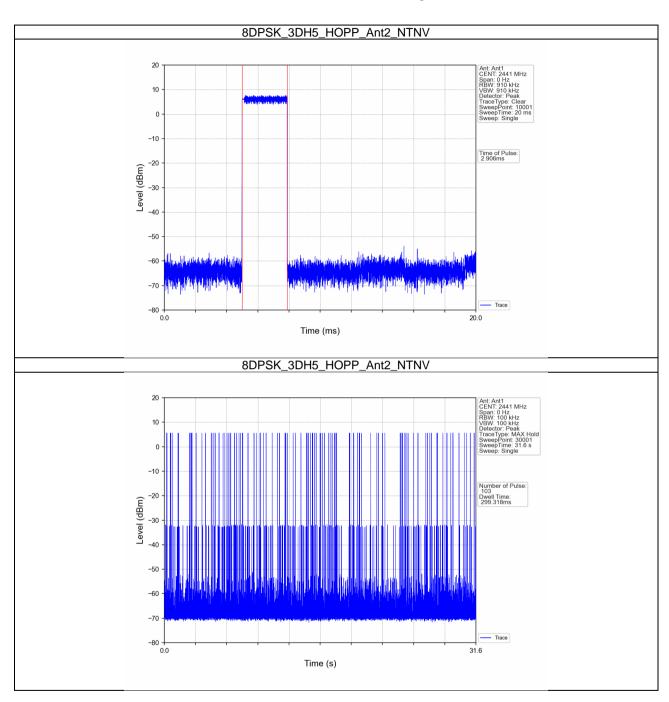
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Unwanted Emissions In Non-restricted Frequency Bands Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
		2402	DH5	2	7.58
GFSK	SISO	2441	DH5	2	8.62
		2480	DH5	2	7.64
Pi/4DQPSK		2402	2DH5	2	4.84
	SISO	2441	2DH5	2	5.96
		2480	2DH5	2	5.06
		2402	3DH5	2	5.04
8DPSK	SISO	2441	3DH5	2	6.12
		2480	3DH5	2	5.13

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



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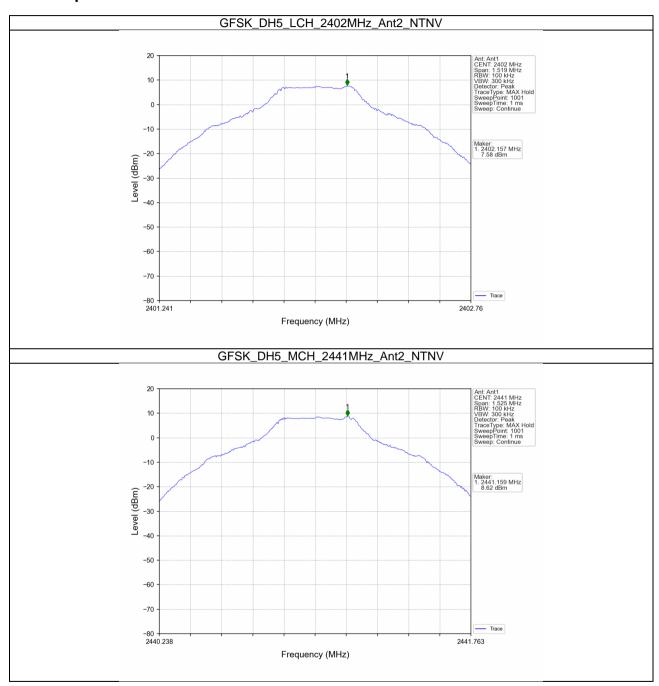


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Test Graphs





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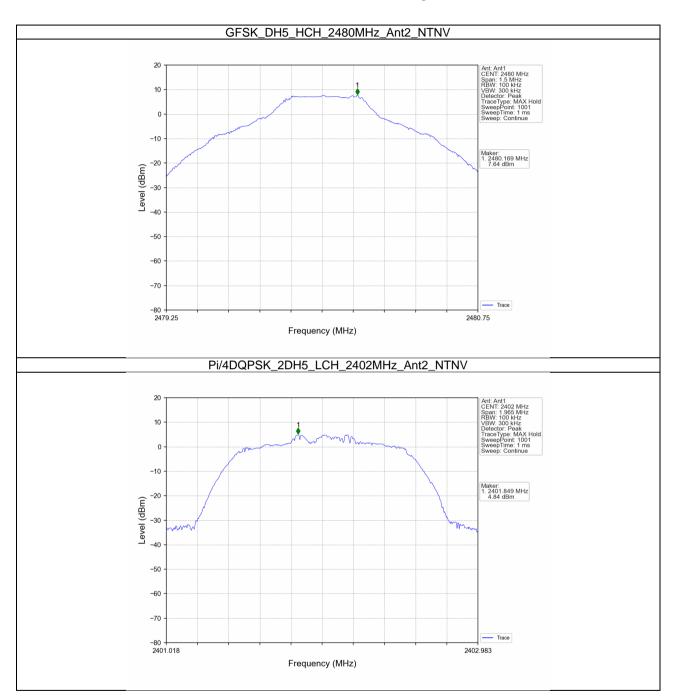
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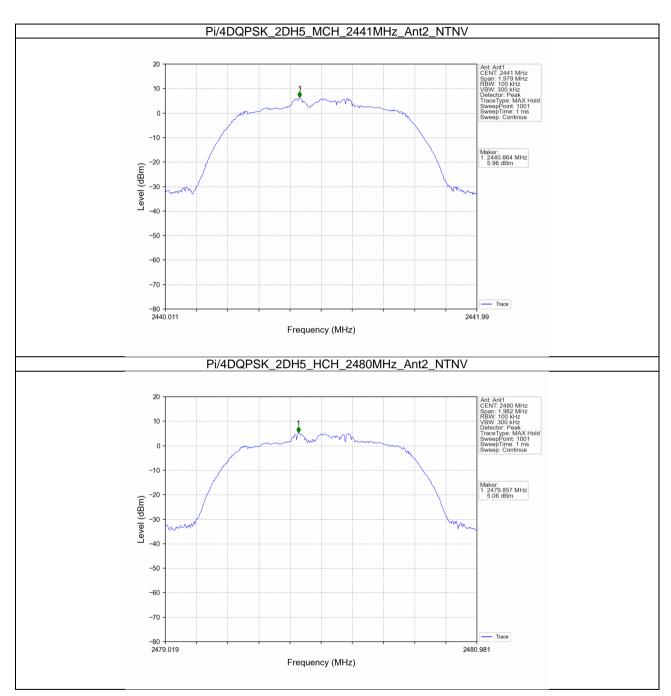
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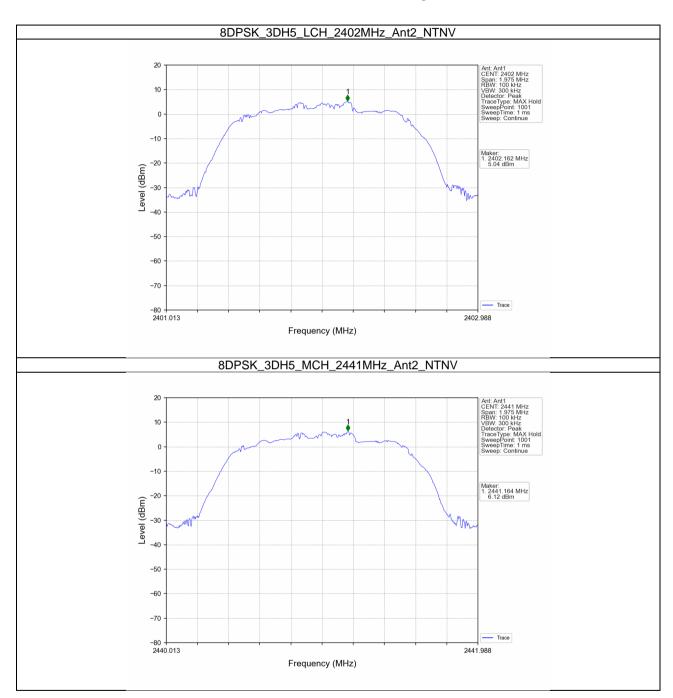
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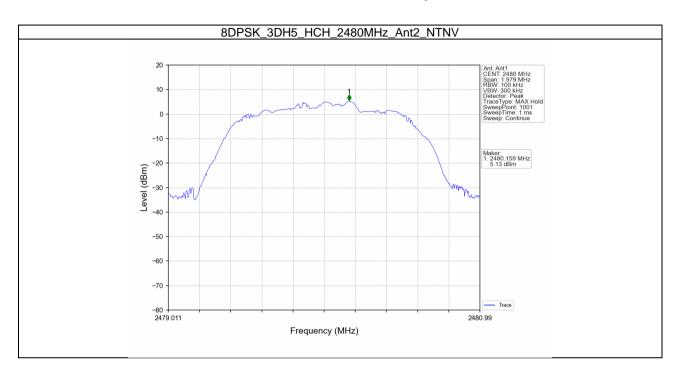
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Conducted Spurious Emission Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
		2402	DH5	2	8.62	-11.38	Pass
		2441	DH5	2	8.62	-11.38	Pass
GFSK	SISO	2480	DH5	2	8.62	-11.38	Pass
		HOPP	DH5	2	8.62	-11.38	Verdict B Pass B Pass B Pass B Pass B Pass B Pass C Pass C Pass C Pass C Pass B Pass
		погг	טחט	2	8.62	-11.38	Pass
		2402	2DH5	2	5.96	-14.04	Pass
		2441	2DH5	2	5.96	-14.04	(dBm) Verdict -11.38 Pass -11.38 Pass -11.38 Pass -11.38 Pass -11.38 Pass -14.04 Pass -14.04 Pass -14.04 Pass -14.04 Pass -14.04 Pass -13.88 Pass -13.88 Pass -13.88 Pass -13.88 Pass -13.88 Pass
Pi/4DQPSK	SISO	2480	2DH5	2	5.96	5.96 -14.04 Pass 5.96 -14.04 Pass	
		HOPP	2DH5	2	5.96	-14.04	Pass Pass Pass Pass Pass Pass Pass Pass
		ПОРР	2000	2	5.96	-14.04	Pass
		2402	3DH5	2	6.12	-13.88	Pass
		2441	3DH5	2	6.12	-13.88	Pass
8DPSK	SISO	2480	3DH5	2	6.12	5.96 -14.04 Pass 5.96 -14.04 Pass 6.12 -13.88 Pass 6.12 -13.88 Pass 6.12 -13.88 Pass 6.12 -13.88 Pass	Pass
		HOPP	20115	2	6.12	-13.88	Pass
		ПОРР	3003	3DH5 2	6.12	-13.88	Pass

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



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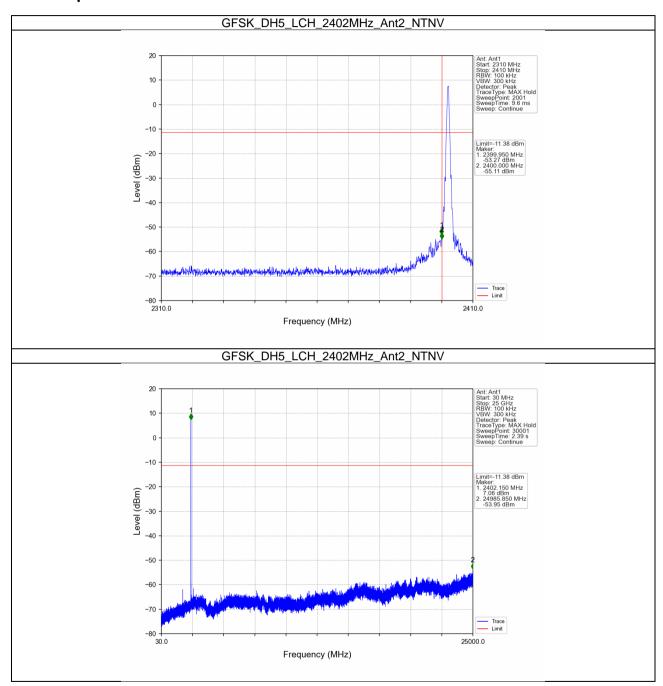


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Test Graphs





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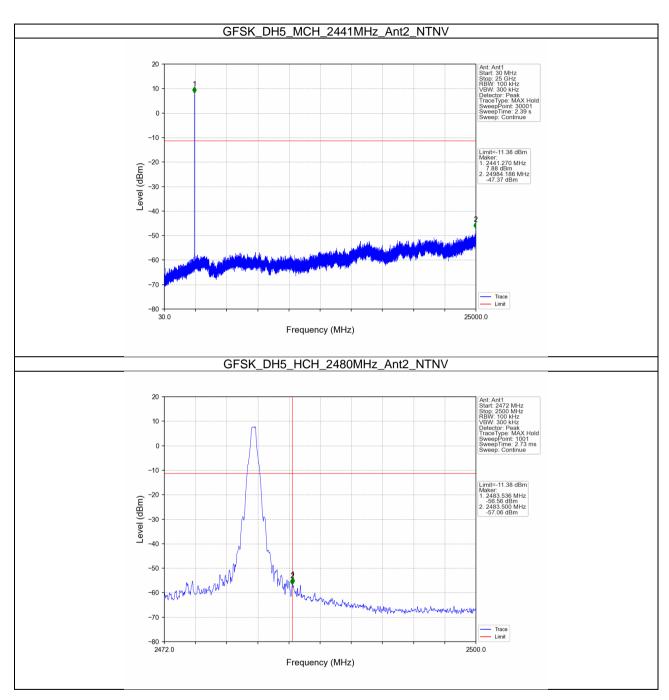
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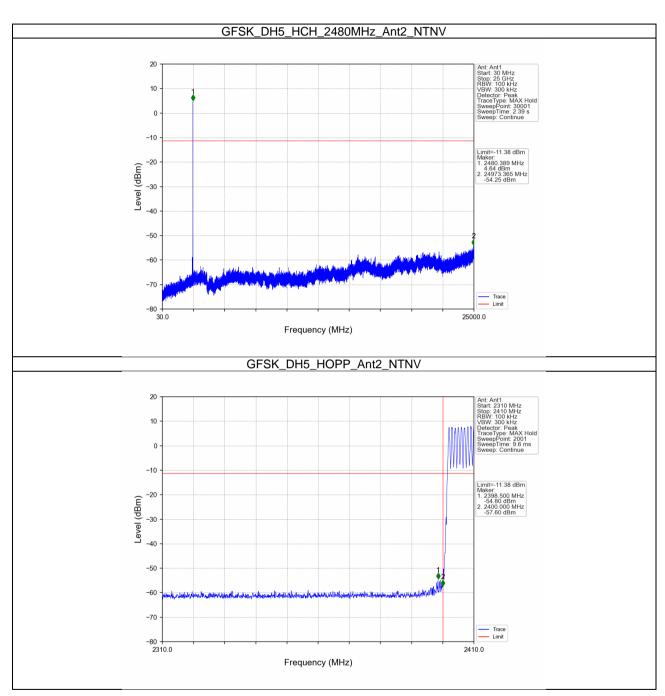
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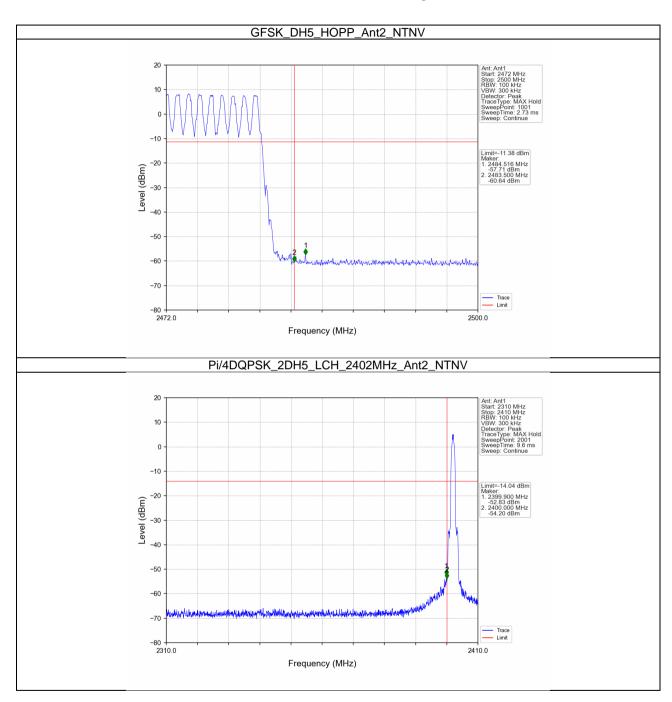
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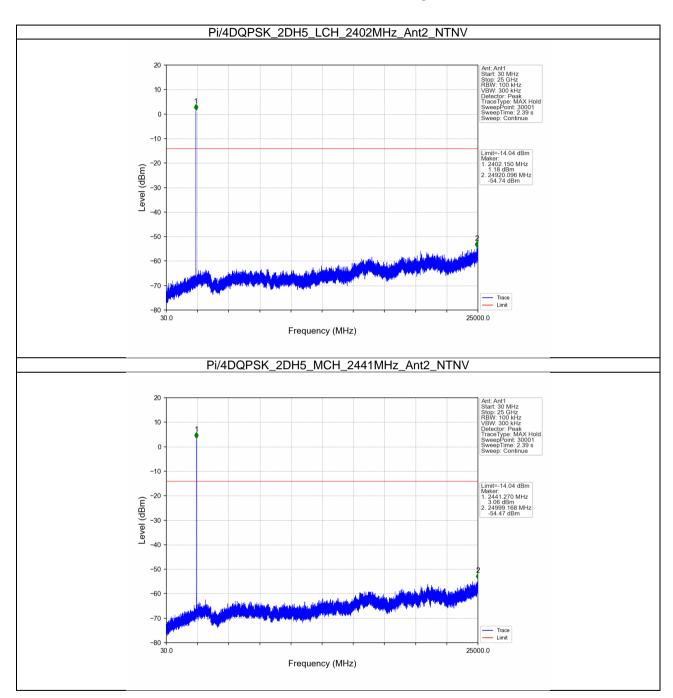
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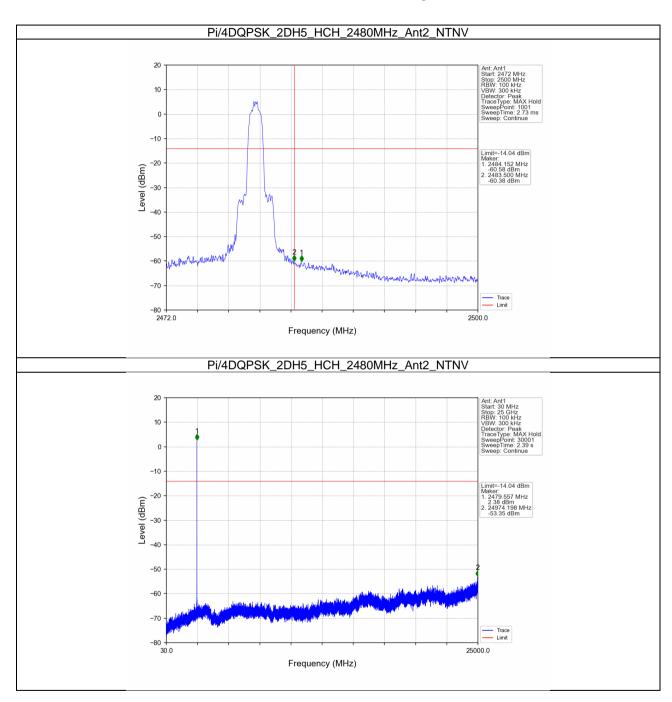
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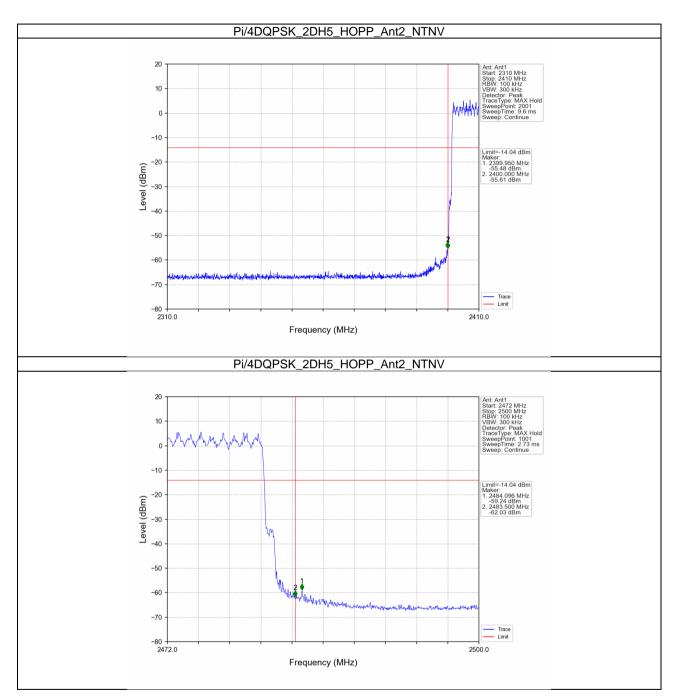
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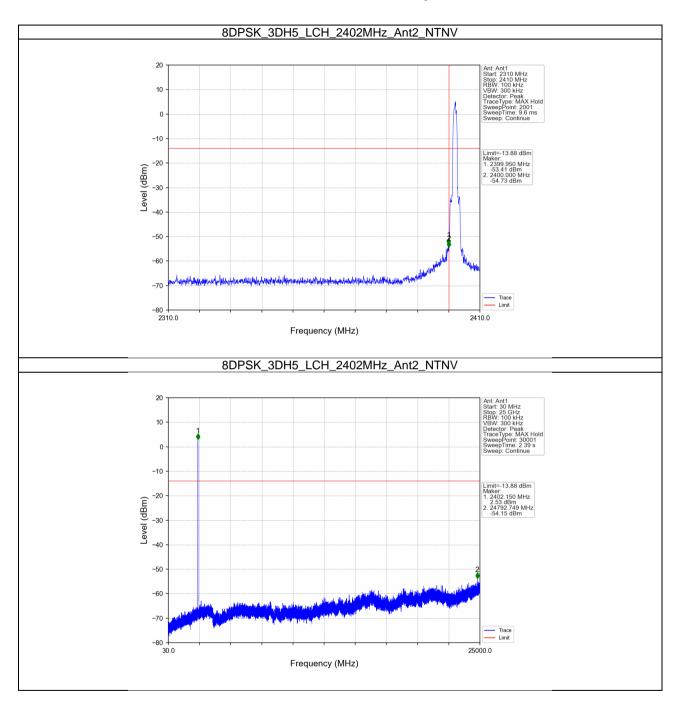
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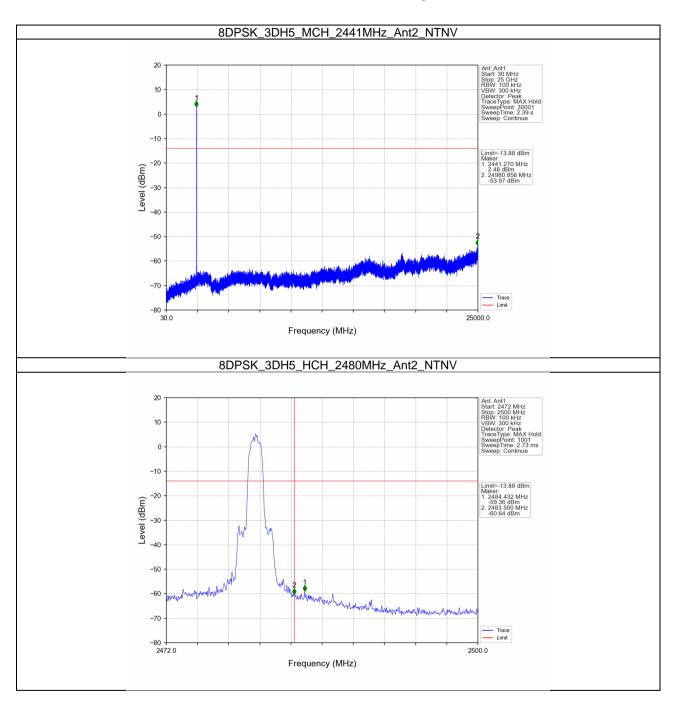
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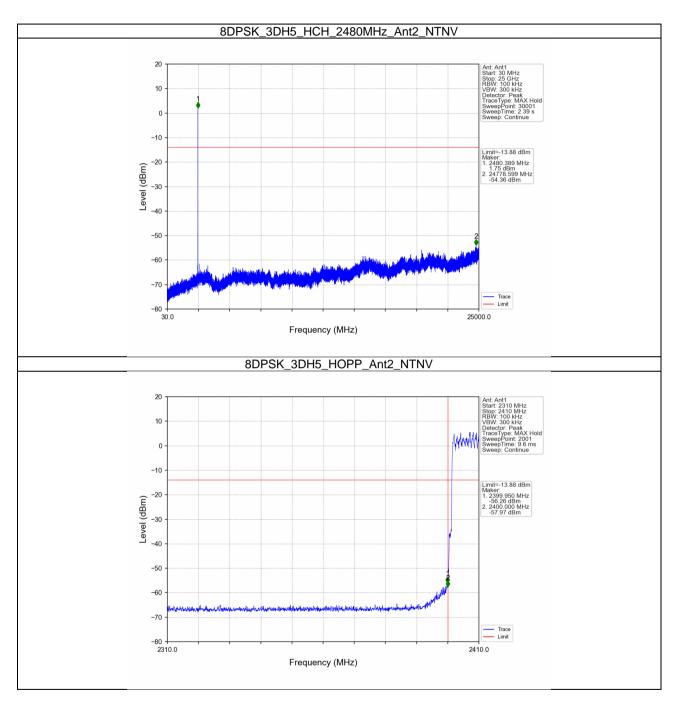
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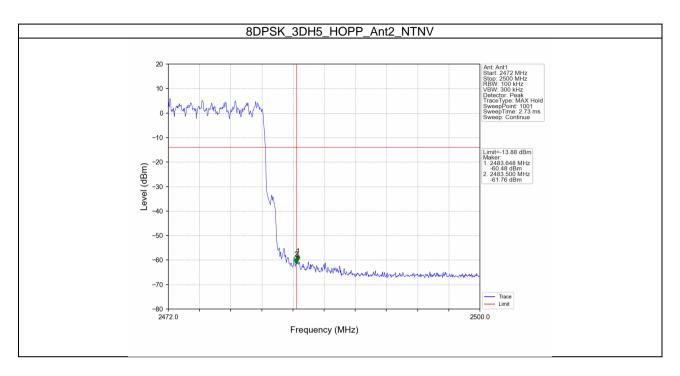
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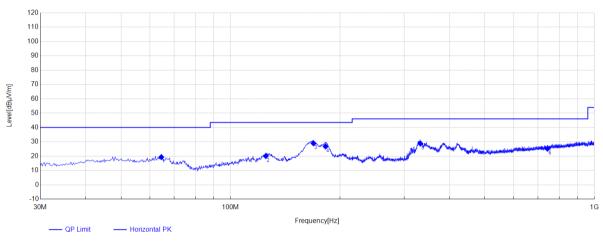
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Radiated Spurious Emissions Radiated emission below 1GHz

Worst case Mode: GFSK_Channel 78



QP Detector

Data Lis	st							
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading[dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	64.5389	12.10	-27.04	34.26	19.32	40.00	20.68	Horizontal
2	125.079	8.72	-26.75	38.08	20.05	43.50	23.45	Horizontal
3	169.1258	8.86	-26.20	46.23	28.89	43.50	14.61	Horizontal
4	182.5145	9.25	-26.28	43.76	26.73	43.50	16.77	Horizontal
5	332.5065	14.15	-25.52	40.12	28.75	46.00	17.25	Horizontal
6	743.0926	20.01	-23.31	28.46	25.16	46.00	20.84	Horizontal



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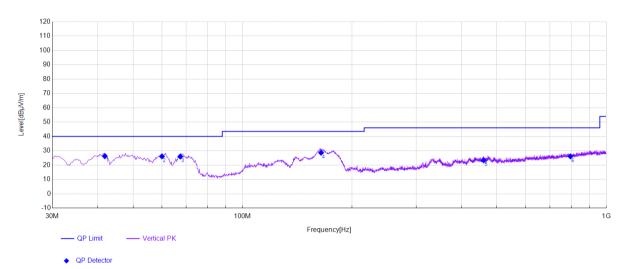
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Data Lis	Data List										
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading[dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity			
1	41.8364	13.48	-27.64	40.39	26.23	40.00	13.77	Vertical			
2	60.076	12.39	-27.25	40.93	26.07	40.00	13.93	Vertical			
3	67.4495	10.61	-26.91	42.26	25.96	40.00	14.04	Vertical			
4	164.4689	8.59	-26.28	46.32	28.63	43.50	14.87	Vertical			
5	460.184	16.11	-24.81	32.02	23.32	46.00	22.68	Vertical			
6	796.8414	20.54	-23.25	28.8	26.09	46.00	19.91	Vertical			

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Value = Reading(dB μ V) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit($dB\mu V/m$) – Value($dB\mu V/m$)

2) All channels have been tested, but only the worst case data displayed in this report.



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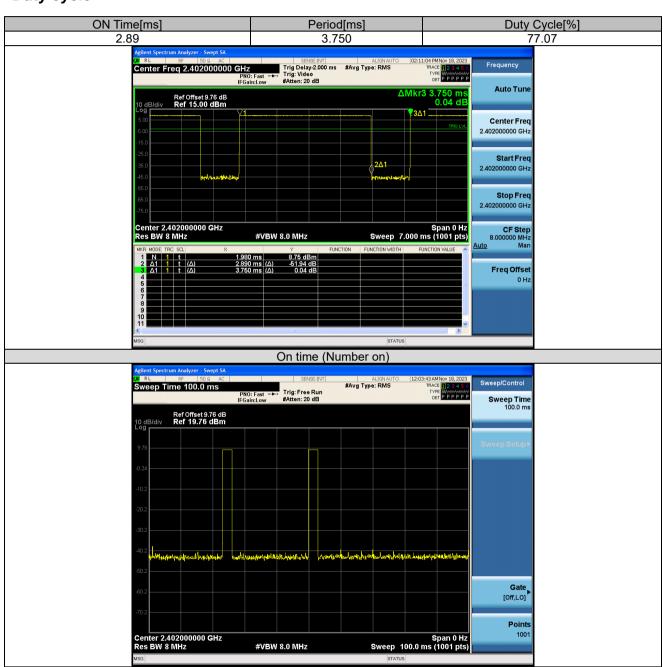


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Transmitter emission Above 1GHz Duty cycle



Note:

Duty cycle = on time / 100ms = 2 * 2.89 / 100 = 5.78% Duty cycle Correction factor = 20*log(Duty cycle) = -24.76dB



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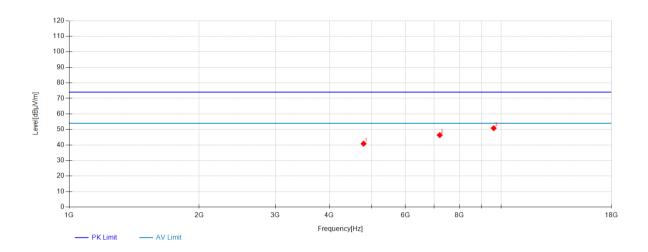


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GFSK Channel 0



Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4804	53.03	30.78	-42.95	40.86	74.00	33.14	Horizontal			
	4804	-	-	=	16.10	54.00	37.90	-			
2	7206	48.48	36.56	-38.71	46.33	74.00	27.67	Horizontal			
	7206	-	-	=	21.57	54.00	32.43	-			
3	9608	48.66	37.85	-35.70	50.81	74.00	23.19	Horizontal			
	9608	-	-	-	26.05	54.00	27.95	-			



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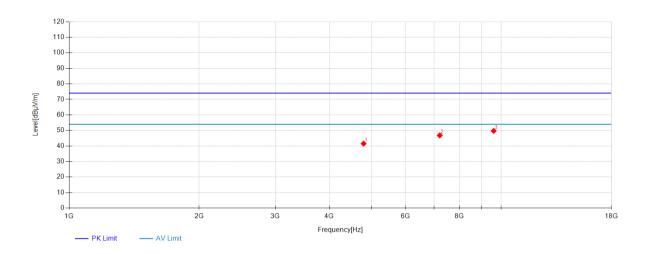


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GFSK Channel 0



Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4804	53.70	30.78	-42.95	41.53	74.00	32.47	Vertical			
	4804	-	-	=	16.77	54.00	37.23	-			
2	7206	48.96	36.56	-38.71	46.81	74.00	27.19	Vertical			
	7206	=	=	-	22.05	54.00	31.95	-			
3	9608	47.54	37.85	-35.70	49.69	74.00	24.31	Vertical			
	9608	-	-	=	24.93	54.00	29.07	-			



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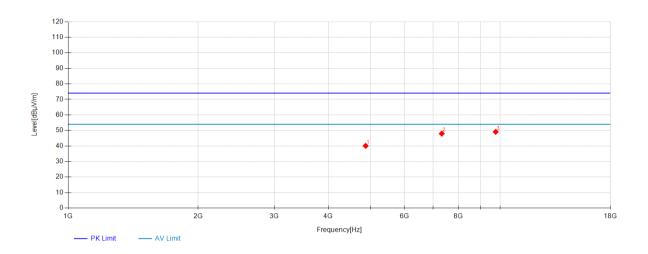


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Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4882	52.19	30.79	-42.89	40.09	74.00	33.91	Horizontal			
	4882	-	-	=	15.33	54.00	38.67	-			
2	7323	50.27	36.45	-38.74	47.98	74.00	26.02	Horizontal			
	7323	=	=	-	13.22	54.00	30.78	-			
3	9764	46.72	38.36	-35.95	49.13	74.00	24.87	Horizontal			
	9764	-	-	-	24.37	54.00	29.63	-			



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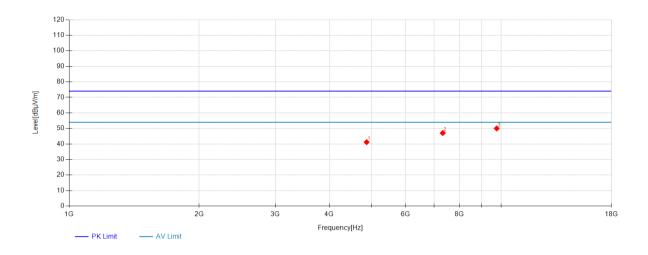


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Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4882	53.29	30.79	-42.89	41.19	74.00	32.81	Vertical			
	4882	-	-	=	16.43	54.00	37.57	-			
2	7323	49.34	36.45	-38.74	47.05	74.00	26.95	Vertical			
	7323	=	=	-	22.29	54.00	31.71	-			
3	9764	47.60	38.36	-35.95	50.01	74.00	23.99	Vertical			
	9764	-	-	-	25.25	54.00	28.75	-			



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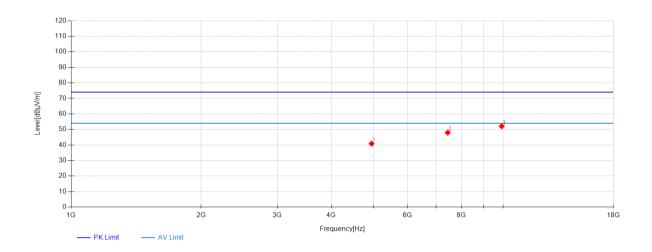


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Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4960	52.61	31.04	-42.78	40.87	74.00	33.13	Horizontal			
	4960	-	-	=	16.11	54.00	37.89	-			
2	7440	49.45	36.78	-38.28	47.95	74.00	26.05	Horizontal			
	7440	-	-	-	23.19	54.00	30.81	-			
3	9920	48.91	38.62	-35.49	52.04	74.00	21.96	Horizontal			
	9920	-	-	-	27.28	54.00	26.72	-			



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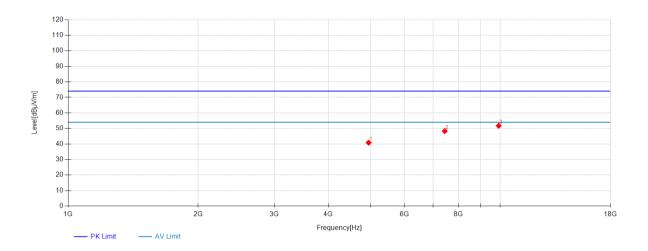


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Data L	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4960	52.59	31.04	-42.78	40.85	74.00	33.15	Vertical			
	4960	-	-	=	16.09	54.00	37.91	-			
2	7440	49.78	36.78	-38.28	48.28	74.00	25.72	Vertical			
	7440	=	=	-	23.52	54.00	30.48	-			
3	9920	48.60	38.62	-35.49	51.73	74.00	22.27	Vertical			
	9920	-	=	-	26.97	54.00	27.03	-			

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading($dB\mu V$) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit($dB\mu V/m$) – Level($dB\mu V/m$)

2) All channels have been tested, but only the worst case data displayed in this report.



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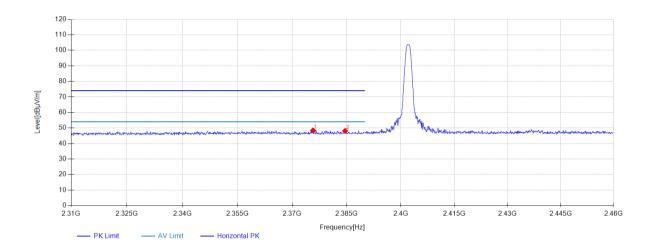


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Restricted bands around fundamental frequency GFSK Channel 0



Data L	Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2375.7329	39.34	27.50	-18.42	48.42	74.00	25.58	Horizontal		
	2375.7329	=	=	-	23.66	54.00	30.34	-		
2	2384.5873	38.91	27.46	-18.27	48.10	74.00	25.90	Horizontal		
	2384.5873	-	-	-	23.34	54.00	30.66	-		



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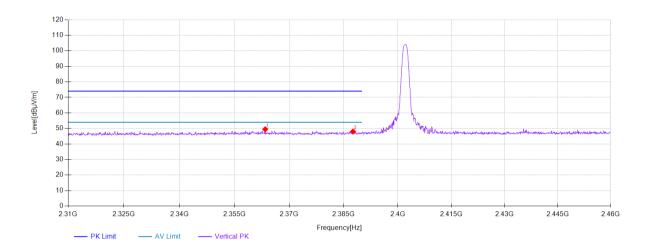


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GFSK Channel 0



Data L	Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2363.4267	40.26	27.55	-18.32	49.49	74.00	24.51	Vertical		
	2363.4267	-	-	=	24.73	54.00	29.27	-		
2	2387.5888	38.73	27.45	-18.20	47.98	74.00	26.02	Vertical		
	2387.5888	-	-	-	23.22	54.00	30.78	-		



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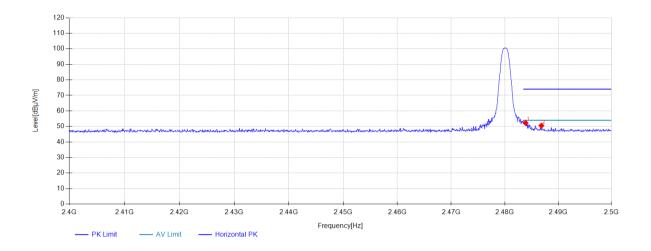


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GFSK Channel 78



Data L	Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2483.8919	42.70	27.74	-18.18	52.26	74.00	21.74	Horizontal		
	2483.8919	-	-	=	27.50	54.00	26.50	-		
2	2486.8434	40.96	27.75	-18.17	50.54	74.00	23.46	Horizontal		
	2483.8919	-	-	-	25.78	54.00	28.22	-		



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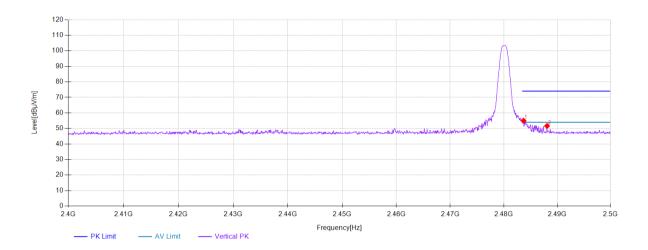


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Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2483.6918	45.46	27.73	-18.19	55.00	74.00	19.00	Vertical
	2483.6918	-	-	=	30.24	54.00	23.76	-
2	2488.094	42.04	27.75	-18.17	51.62	74.00	22.38	Vertical
	2488.094	-	-	=	26.88	54.00	27.14	-

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading($dB\mu V$) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit($dB\mu V/m$) – Level($dB\mu V/m$)

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