

Report No.: SUHR/2021/C000103

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TEST REPORT

Application No.: HR/2021/C0001

Applicant: Honor Device Co., Ltd.

Address of Applicant Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road,

Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's

Republic of China

Manufacturer: Honor Device Co., Ltd.

Address of Manufacturer Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road,

Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's

Republic of China

EUT Description: Smart Phone Model No.: NTN-LX3 Trade Mark: **HONOR**

FCC ID: 2AYGCNTN-LX3

47 CFR FCC Part 2, Subpart J Standards:

47 CFR Part 15, Subpart C

Date of Receipt: 2021/12/8

Date of Test: 2021/12/15 to 2021/12/18

Date of Issue: 2021/12/18

Test Result: PASS *

Authorized Signature:

Panta Sun Wireless Laboratory Manager



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



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1 Version

Revision Record							
Version	Chapter	Date	Modifier	Remark			
01		2021/12/18		Original			

Prepared By	weller lin		
	(Weller Liu) / Engineer		
Checked By	well wei'		
	(Well Wei) / Reviewer		



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2 Test Summary

2 rest dummary	Test		Test	
Test Item	Requirement	Test Method	Result	Result
Antenna Requirement	15.203/247(b)		Clause 4.1	Refer to HR/2021/1001402- 01
AC Power Line Conducted Emission	15.207	ANSI C63.10 (2013)	Clause 4.3	PASS
Peak Output Power	15.247 (b)(1)	ANSI C63.10 (2013)	Clause 4.4	Refer to HR/2021/1001402- 01
20dB Emission Bandwidth & 99% Occupied Bandwidth	15.247 (a)(1)	ANSI C63.10 (2013)	Clause 4.5	Refer to HR/2021/1001402- 01
Carrier Frequencies Separation	15.247 (a)(1)	ANSI C63.10 (2013)	Clause 4.6	Refer to HR/2021/1001402- 01
Hopping Channel Number	15.247 (a)(1)	ANSI C63.10 (2013)	Clause 4.7	Refer to HR/2021/1001402- 01
Dwell Time	15.247 (a)(1)	ANSI C63.10 (2013)	Clause 4.8	Refer to HR/2021/1001402- 01
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 (2013)	Clause 4.9	Refer to HR/2021/1001402- 01
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 (2013)	Clause 4.10	Refer to HR/2021/1001402- 01
Radiated Spurious emissions	15.247(d); 15.205/15.209	ANSI C63.10 (2013)	Clause 4.11	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d); 15.205/15.209	ANSI C63.10 (2013)	Clause 4.12	PASS



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Remark:

This test report (Report No.: SUHR/2021/C000103) is based on the original test report (Report No.: HR/2021/1001402-01) issued on 2021-05-15.

According to the difference declaration from the applicant, radiation spurious emissions and Conducted Emission are performed based on the worst case of the original report , and the other test data can be refereed to the original test report.



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3 General Information

3.1 Details of Client

Applicant:	Honor Device Co., Ltd.
Address of Applicant:	Suite 3401,Unit A, Building 6, Shum Yip Sky Park, No.8089,Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China
Manufacturer:	Honor Device Co., Ltd.
Address of Manufacturer:	Suite 3401,Unit A, Building 6, Shum Yip Sky Park, No.8089,Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Weller Liu, King-p Li, Nature Shen, Tizzy Song

3.3 Test Facility

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

• A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC –Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number:0031225543





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3.4 General Description of EUT

EUT Description:	Smart Phone					
Model No.:	NTN-LX3					
Trade Mark:	HONOR					
Hardware Version:	HL1NTNM					
Software Version:	11.0.2.88(C900E85R1P	3)				
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					
Hopping Channel Type:	Adaptive Frequency Hop	pping systems				
Sample Type:	☑ Portable Device, ☐N	Module				
Antenna Type:	☐ External, ⊠ Integrate	ed				
Antonno Coin*:	⊠Provided by applicant					
Antenna Gain*:	-2.2dBi					
	⊠Provided by applicant	t				
RF Cable*:	0.5dB(0.6~1GHz)	0.8dB(1.4~2GHz)	1.0dB(2.1~2.7GHz)			
	1.5dB(3~4GHz)	1.8dB(4.4~6GHz)	•			

Remark:

*Since the above data and/or information is provided by the applicant relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.



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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	101 KPa Selected Values During Tests				
Relative Humidity	44~46% RH Ambient				
Value	Temperature(°C) Voltage(V)				
NTNV	22~23	3.87			
LTNV	-10	3.87			
HTNV	55	3.87			

Remark:

NV: Normal VoltageNT: Normal Temperature

LT: Low Extreme Test Temperature HT: High Extreme Test Temperature

3.6 Description of Support Units

The EUT has been tested 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(c)

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 and no consideration of replacement. The best case gain of the antenna is -2.2dBi.



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

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

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

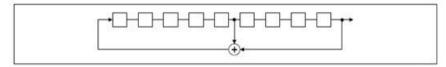
Compliance for section 15.247(a)(1):

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

- > Number of shift register stages: 9
- > Length of pseudo-random sequence: 29 -1 = 511 bits
- > Longest sequence of zeros: 8 (non-inverted signal)

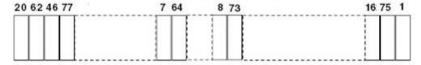
Linear Feedback Shift Register for Generation of the PRBS sequence

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:





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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					
Test Frequency Range:	150kHz to 30MHz					
Limit:	Fragues (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 log	arithm of the frequency.				
Test Procedure:	The mains terminal or room.	listurbance voltage test was	conducted in a shielded			
	 The mains terminal disturbance voltage test was conducted in a s room. The EUT was connected to AC power source through a LISN Impedance Stabilization Network) which provides a 50Ω/50μH + 50 impedance. The power cables of all other units of the EUT connected to a second LISN 2, which was bonded to the ground replane in the same way as the LISN 1 for the unit being measimultiple socket outlet strip was used to connect multiple power cab single LISN provided the rating of the LISN was not exceeded. The tabletop EUT was placed upon a non-metallic table 0.8m ab ground reference plane. And for floor-standing arrangement, the Elplaced on the horizontal ground reference plane. The test was performed with a vertical ground reference plane. The the EUT shall be 0.4 m from the vertical ground reference plane vertical ground reference plane was bonded to the horizontal reference plane. The LISN 1 was placed 0.8 m from the boundary unit under test and bonded to a ground reference plane for mounted on top of the ground reference plane. This distance was be the closest points of the LISN 1 and the EUT. All other units of the and associated equipment was at least 0.8 m from the LISN 2. In order to find the maximum emission, the relative positions of equand all of the interface cables must be changed according to 					



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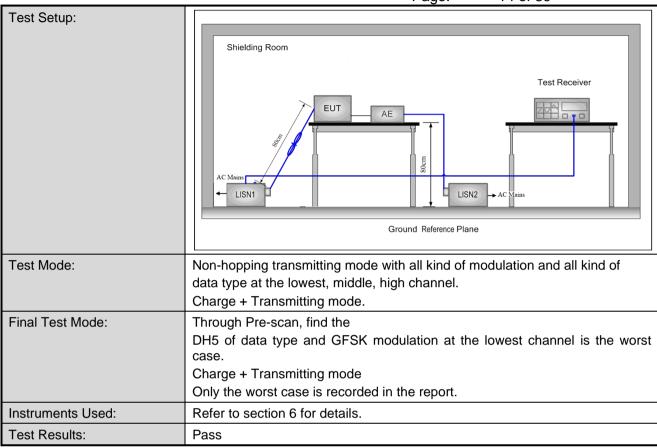
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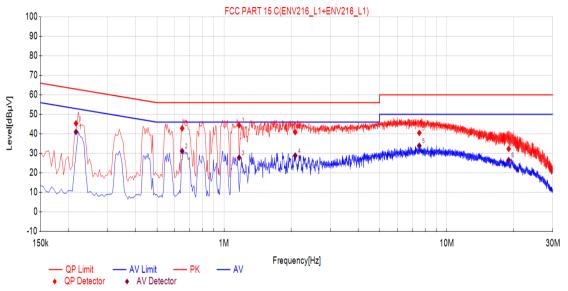
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Measurement Data

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.

Live Line:



Final [Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.2165	9.81	45.38	62.95	17.57	41.00	52.95	11.95	PASS
2	0.6488	9.54	42.81	56.00	13.19	31.15	46.00	14.85	PASS
3	1.1695	9.73	44.37	56.00	11.63	27.77	46.00	18.23	PASS
4	2.0894	9.68	40.88	56.00	15.12	28.83	46.00	17.17	PASS
5	7.5385	9.68	40.48	60.00	19.52	33.90	50.00	16.10	PASS
6	18.9956	9.44	32.27	60.00	27.73	26.53	50.00	23.47	PASS

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.



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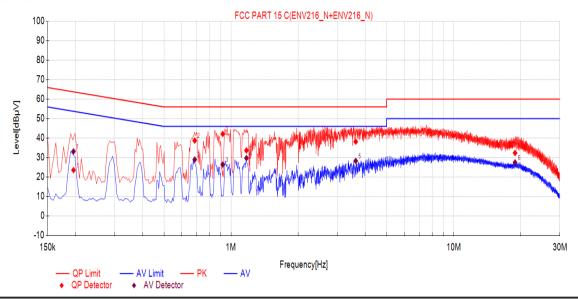
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Neutral Line:



Final D	Final Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict		
1	0.1963	9.67	23.53	63.77	40.24	33.15	53.77	20.62	PASS		
2	0.6875	9.79	38.71	56.00	17.29	28.97	46.00	17.03	PASS		
3	0.9185	9.74	42.11	56.00	13.89	26.40	46.00	19.60	PASS		
4	1.1736	9.76	33.64	56.00	22.36	29.70	46.00	16.30	PASS		
5	3.6348	9.69	38.15	56.00	17.85	28.27	46.00	17.73	PASS		
6	18.8699	9.44	32.36	60.00	27.64	27.44	50.00	22.56	PASS		

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.



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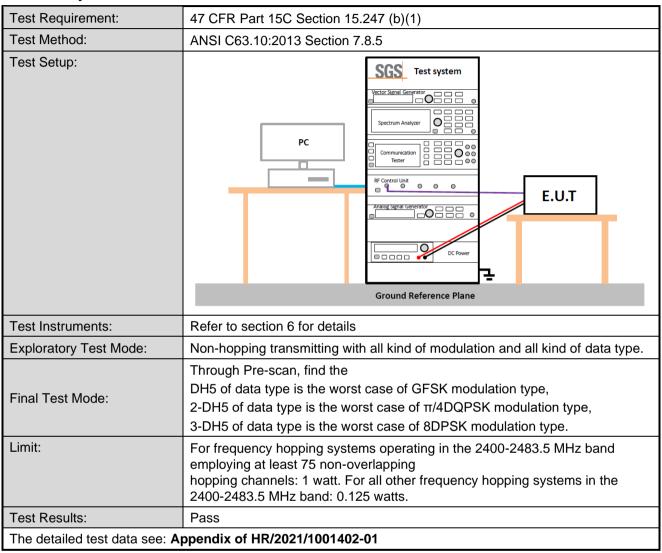
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4.4 Output Power



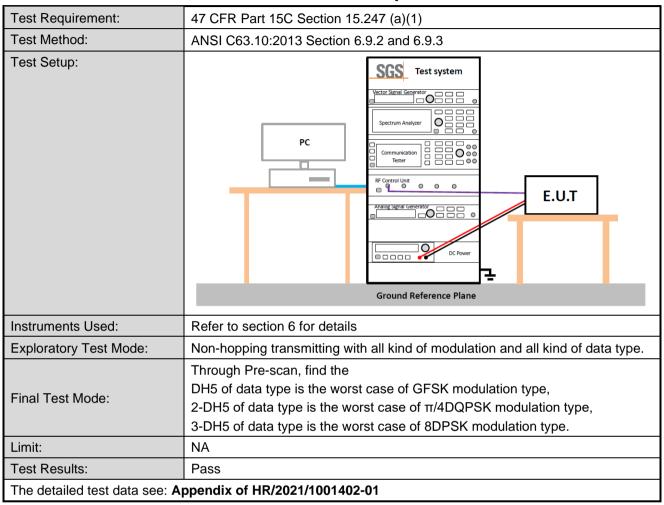




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4.5 20dB Emission Bandwidth & 99% Occupied Bandwidth





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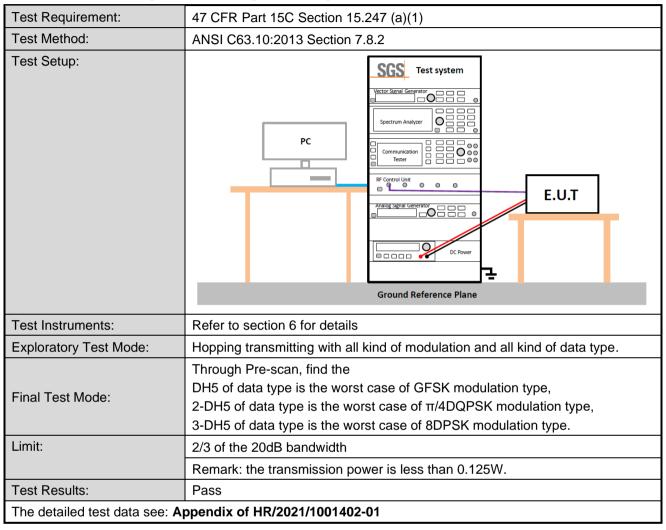
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4.6 Carrier Frequencies Separationy



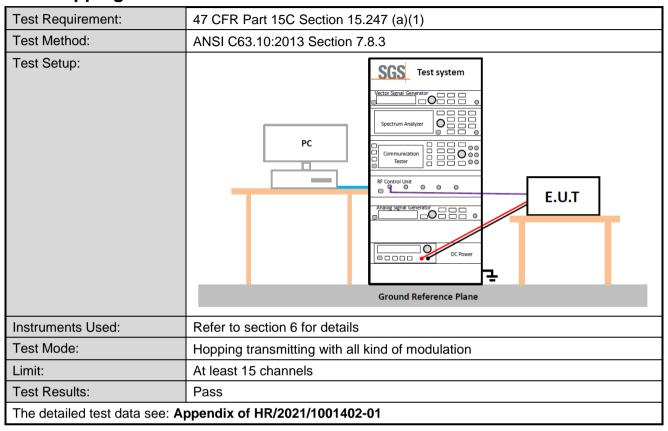




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4.7 Hopping Channel Number



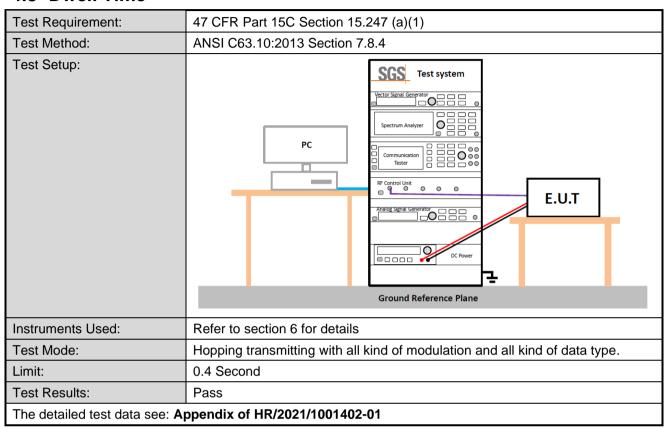




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4.8 Dwell Time







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4.9 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)							
Test Method:	ANSI C63.10:2013 Section 7.8.6							
Test Setup:	PC Spectrum Analyzer O O O O O O O O O							
Instruments Used:	Refer to section 6 for details							
Exploratory Test Mode:	Hopping and Non-hopping transmitting with all kind of modulation and all kind of data type.							
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of π/4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.							
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.							
Test Results:	Pass							
The detailed test data see: A	ppendix of HR/2021/1001402-01							



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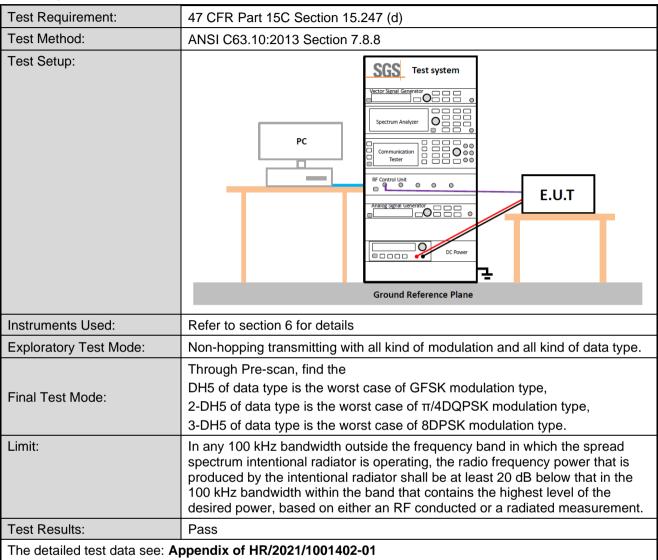
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4.10 Spurious RF Conducted Emissions





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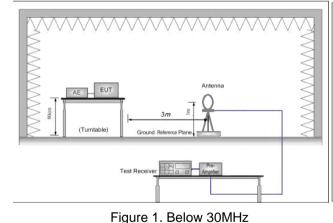


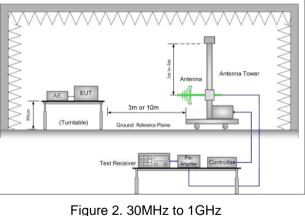
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4.11 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section	47 CFR Part 15C Section 15.209 and 15.205								
Test Method:	ANSI C63.10 :2013 Section 11.12									
Test Site:	Measurement Distance: 3	m (Semi-Anechoic	Chamber)							
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 emission level radiated by the device.									
Test Setup:										
7,										









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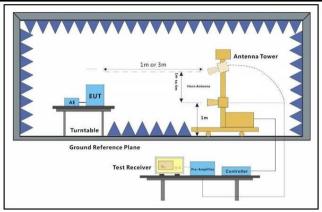


Figure 3. Above 1 GHz

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.
- 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(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be retested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel ,the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
- j. Repeat above procedures until all frequencies measured was complete.

Test Configuration:

Measurements Below 1000MHz

- RBW = 120 kHz
- VBW = 300 kHz
- Detector = Peak
- Trace mode = max hold

Peak Measurements Above 1000 MHz

- RBW = 1 MHz
- VBW ≥ 3 MHz



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	Detector = Peak
	Sweep time = auto
	Trace mode = max hold
	Average Measurements Above 1000MHz
	• RBW = 1 MHz
	• VBW ≥ 3MHz
	Detector = power averaging (rms)
	Sweep time = auto.
	transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Evalorator / Took	Non-hopping transmitting mode with all kind of modulation and all kind of
Exploratory Test Mode:	data type
wode.	Charge + 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 Charge + Transmitting mode
	For below 1GHz part, through pre-scan, the worst case is the lowest channel.
	Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test dat	a see: Appendix



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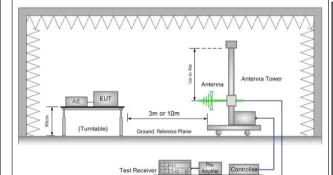


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4.12Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 1	47 CFR Part 15C Section 15.209 and 15.205								
Test Method:	ANSI C63.10: 2013	ANSI C63.10: 2013								
Test Site:	Measurement Distance: 3n	Measurement Distance: 3m (Semi-Anechoic Chamber)								
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:										



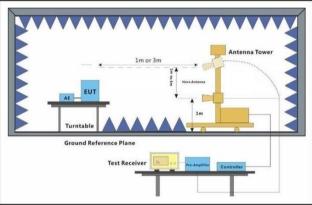


Figure 1. 30MHz to 1GHz

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 Bandwidth with Maximum Hold Mode.
- g. Place a marker at the end of the restricted band closest to the transmit



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	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 = 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 • RBW = 1 MHz • VBW ≥ 3MHz • Detector = power averaging (rms) • Sweep time = auto. transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type Charge + 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 Charge + 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	e: Appendix



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

No.	ltem	Measurement Uncertainty
1	Conduction Emission	± 2.90dB (150kHz to 30MHz)
		± 3.13dB (9k -30MHz)
2	Radiated Emission	± 4.8dB (30M -1GHz)
2		± 4.8dB (1GHz to 18GHz)
		± 4.8dB (Above 18GHz)



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6 Equipment List

CE Test Equipment										
Equipment	Manufacturer	Model No. Inventory No.		Cal Date	Cal Due Date					
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/5/8	2024/5/7					
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2021/2/20	2022/2/19					
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2021/2/20	2022/2/19					
Measurement Software	Tonscend	JS32-CE V3.0.0.1	SUWI-02-09-05	NCR	NCR					
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2021/2/20	2022/2/19					



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9*6*6 Test Equipment									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date				
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/5/8	2024/5/7				
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2021/2/20	2022/2/19				
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27				
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2021/2/20	2022/2/19				
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/5/16	2022/5/15				
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/5/16	2022/5/15				
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/5/14	2022/5/13				
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/6/10	2022/6/9				
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2021/2/20	2022/2/19				
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2021/2/20	2022/2/19				
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2021/2/20	2022/2/19				



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7 **Photographs - EUT Constructional Details**

Refer to Appendix A Setup Photos.



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Appendix



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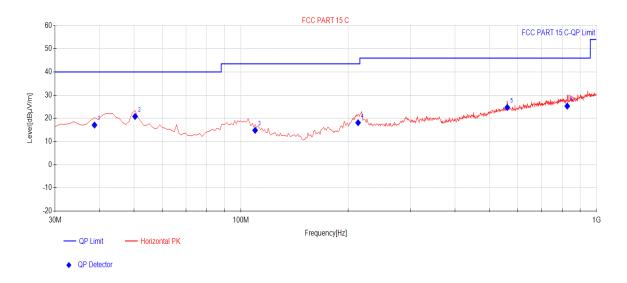
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Radiated Spurious Emissions

Radiated emission below 1GHz

LF GFSK Channel 78



Final Data List									
NO	Frequency	Factor	QP Value	QP Limit	QP Margin	Height	Angle	5.1."	
NO.	[MHz]]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
1	38.7387	-16.40	17.12	40.00	22.88	106	74	Horizontal	
2	50.3904	-14.29	20.83	40.00	19.17	321	26	Horizontal	
3	109.6196	-16.71	14.85	43.50	28.65	105	66	Horizontal	
4	213.5135	-15.39	18.13	43.50	25.37	115	241	Horizontal	
5	561.1211	-6.81	24.71	46.00	21.29	211	313	Horizontal	
6	827.1672	-2.57	25.29	46.00	20.71	109	304	Horizontal	

Remark: Final Value = Receiver Read level + Antenna Factor + Cable loss - Preamplifier Factor



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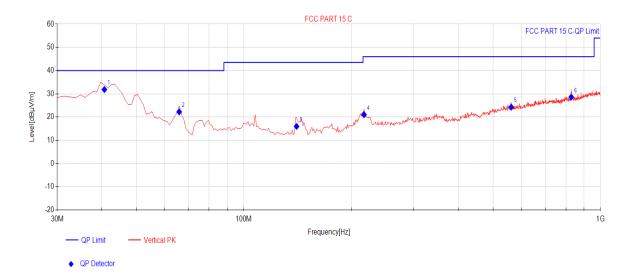
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LF GFSK_Channel 78



Final I	Final Data List										
NO.	Frequency	Factor	QP Value	QP Limit	QP Margin	Height	Angle	Polarity			
110.	[MHz]]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	rolanty			
1	40.6807	-15.84	31.84	40.00	8.16	163	96	Vertical			
2	65.9259	-17.90	22.22	40.00	17.78	185	19	Vertical			
3	140.6907	-19.69	15.99	43.50	27.51	216	253	Vertical			
4	217.3974	-15.12	21.03	46.00	24.97	310	124	Vertical			
5	562.0921	-6.76	24.26	46.00	21.74	210	182	Vertical			
6	828.1381	-2.51	28.61	46.00	17.39	112	263	Vertical			

Remark: Final Value = Receiver Read level + Antenna Factor + Cable loss - Preamplifier Factor



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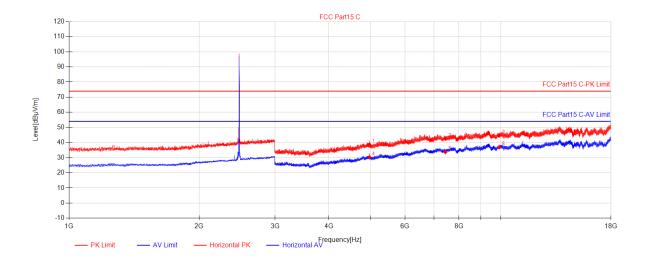
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Transmitter emission above 1GHz

EMISSION GFSK Channel 78



Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	4960	51.54	-12.83	38.71	74.00	35.29	185	356	Horizontal		
2	7440	49.39	-6.83	42.56	74.00	31.44	236	156	Horizontal		
3	9920	45.60	-0.93	44.67	74.00	29.33	145	296	Horizontal		
4	4960	43.22	-12.83	30.39	54.00	23.61	203	154	Horizontal		
5	7440	40.55	-6.83	33.72	54.00	20.28	284	129	Horizontal		
6	9920	37.87	-0.93	36.94	54.00	17.06	245	332	Horizontal		

Remark: Final Value = Receiver Read level + Antenna Factor + Cable loss - Preamplifier Factor



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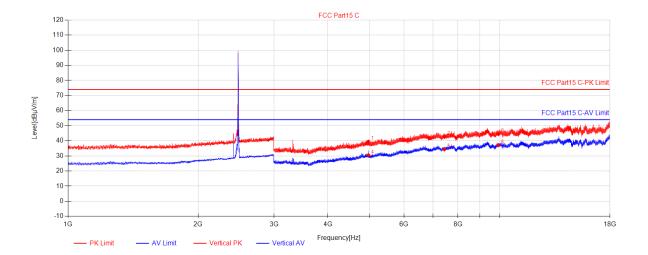


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EMISSION GFSK Channel 78



Data List										
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	4960	52.31	-12.83	39.48	74.00	34.52	185	152	Vertical	
2	7440	49.61	-6.83	42.78	74.00	31.22	265	236	Vertical	
3	9920	45.44	-0.93	44.51	74.00	29.49	302	51	Vertical	
4	4960	43.37	-12.83	30.54	54.00	23.46	222	155	Vertical	
5	7440	41.12	-6.83	34.29	54.00	19.71	150	203	Vertical	
6	9920	38.04	-0.93	37.11	54.00	16.89	189	144	Vertical	

Remark: Final Value = Receiver Read level + Antenna Factor + Cable loss - Preamplifier Factor



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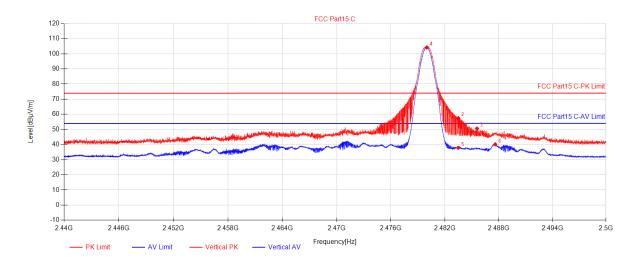
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Bandedge

BAND_ EDGE GFSK Channel 78



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480	100.62	3.57	104.19	74.00	-30.19	295	289	Vertical
2	2483.5	53.90	3.60	57.50	74.00	16.50	295	289	Vertical
3	2485.585	47.03	3.61	50.64	74.00	23.36	295	289	Vertical
4	2480	100.59	3.57	104.16	54.00	-50.16	295	289	Vertical
5	2483.5	34.23	3.60	37.83	54.00	16.17	295	289	Vertical
6	2487.625	36.56	3.62	40.18	54.00	13.82	295	289	Vertical

Remark: Final Value = Receiver Read level + Antenna Factor + Cable loss



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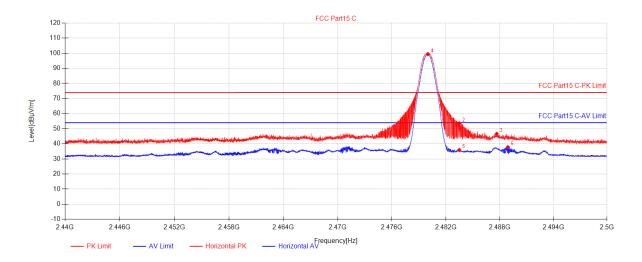


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BAND_ EDGE GFSK Channel 78



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480	95.83	3.57	99.40	74.00	-25.40	107	43	Horizontal
2	2483.5	49.98	3.60	53.58	74.00	20.42	107	43	Horizontal
3	2487.67	43.03	3.62	46.65	74.00	27.35	107	43	Horizontal
4	2480	95.78	3.57	99.35	54.00	-45.35	107	43	Horizontal
5	2483.5	32.34	3.60	35.94	54.00	18.06	107	43	Horizontal
6	2488.915	34.20	3.63	37.83	54.00	16.17	107	43	Horizontal

Remark: Final Value = Receiver Read level + Antenna Factor + Cable loss

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