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FCC REPORT

Application No.:	SZEM1608006854CR
Applicant:	LENOVO (SHANGHAI) ELECTRONICS TECHNOLOGY CO LTD
Manufacturer:	Lenovo PC HK Limited
Product Name:	Lenovo Blaster Controller
Model No.(EUT):	LBC-007
FCC ID:	O57LBC007
Standards:	47 CFR Part 15, Subpart C (2015)
Date of Receipt:	2016-08-16
Date of Test:	2016-08-22to 2016-08-23
Date of Issue:	2016-09-08
Test Result:	PASS *

In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Jack Zhang EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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2 Version

	Revision Record					
Version	Chapter	Date	Modifier	Remark		
00		2016-09-08		Original		

Authorized for issue by:		
Tested By	Bill Chen) /Project Engineer	2016-08-23
Checked By	Eric Fu (Eric Fu)/Reviewer	2016-09-08



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3 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 (2013)	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 (2013)	PASS
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(1)	ANSI C63.10 (2013)	PASS
20dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	ANSI C63.10 (2013)	PASS
Carrier Frequencies Separation	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	ANSI C63.10 (2013)	PASS
Hopping Channel Number	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	ANSI C63.10 (2013)	PASS
Dwell Time	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	ANSI C63.10 (2013)	PASS
Pseudorandom Frequency Hopping Sequence	47 CFR Part 15, Subpart C Section 15.247(b)(4)&TCB Exclusion List (7 July 2002)	ANSI C63.10 (2013)	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 (2013)	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 (2013)	PASS
Radiated Spurious emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 (2013)	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63 10 (2013)	



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5 General Information

5.1 Client Information

Applicant:	LENOVO (SHANGHAI) ELECTRONICS TECHNOLOGY CO LTD			
Address of Applicant:	NO 68 BUILDING 199 FENJU RD, CHINA (SHANGHAI) PILOT FRE TRADE ZONE, SHANGHAI, 200131CHINA			
Manufacturer:	Lenovo PC HK Limited			
Address of Manufacturer:	23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong			

5.2 General Description of EUT

Product Name:	Lenovo Blaster Controller
Model No.:	LBC-007
Frequency Range:	2402MHz to 2480MHz
Bluetooth Version:	V2.1+EDR
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, π/4DQPSK, 8DPSK
Number of Channels:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Sample Type:	Portable production
Antenna Type:	PCB
Antenna Gain:	1dBi
Power Supply	Rechargeable battery: DC 3.7V 500mAh 1.85Wh (charge by USB)

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Operation Frequency each of 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		

Note:

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	2402MHz
The Middle channel	2441MHz
The Highest channel	2480MHz

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5.3 Test Environment

Operating Environment:		
Temperature:	24.0 °C	
Humidity:	55 % RH	
Atmospheric Pressure:	1005 mbar	

5.4 Description of Support Units

The EUT has been tested independent unit.

5.5 Test Location

All tests were performed at:

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

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594 No tests were sub-contracted.



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5.6 Test Facility

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

• CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

FCC – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.



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5.10 Equipment List

	Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)	
1	Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2016-05-13	2017-05-13	
2	LISN	Rohde & Schwarz	ENV216	SEM007-01	2015-10-09	2016-10-09	
3	LISN ETS- LINDGREN		3816/2	SEM007-02	2016-04-25	2017-04-25	
4	8 Line ISN Fischer Custon Inc.		FCC- TLISN-T8- 02	EMC0120	2015-08-30	2016-08-30	
5	4 Line ISN Fischer Custom		FCC- TLISN-T4- 02	EMC0121	2015-08-30	2016-08-30	
6	6 2 Line ISN Communications Inc.		FCC- TLISN-T2- 02	EMC0122	2015-08-30	2016-08-30	
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2016-04-25	2017-04-25	
8	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2015-10-09	2016-10-09	

	RF connected test						
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)	
1	DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2015-10-09	2016-10-09	
2	Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2015-10-17	2016-10-17	
3	Signal Generator	Rohde & Schwarz	SML03	SEM006-02	2016-04-25	2017-04-25	
4	Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2015-10-09	2016-10-09	



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	RE in Chamber					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2016-05-13	2017-05-13
2	EMI Test Receiver (9k-3GHz)	Rohde & Schwarz	ESCI	SEM004-01	2016-04-25	2017-04-25
3	Trilog-Broadband Antenna(30M-1GHz)	Schwarzbeck	VULB9168	SEM003-17	2016-01-26	2017-01-26
4	Pre-amplifier	Sonoma Instrument Co	310N	SEM005-03	2016-04-25	2017-04-25
5	Loop Antenna	ETS-Lindgren	6502	SEM003-08	2015-08-14	2016-08-14

	RE in Chamber					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2016-05-13	2017-05-13
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEM004-04	2016-04-25	2017-04-25
3	BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-02	2014-11-15	2017-11-15
4	Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2015-10-09	2016-10-09
5	Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2015-06-14	2018-06-14
6	Low Noise Amplifier	Black Diamond Series	BDLNA- 0118- 352810	SEM005-05	2015-10-09	2016-10-09
7	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A



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6 Test results and Measurement Data

6.1 Antenna Requirement

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

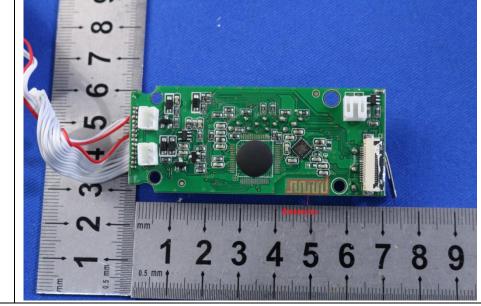
15.203 requirement:

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.

EUT Antenna:



The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 1dBi.

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Test Requirement:	47 CFR Part 15C Section 15.207				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	150kHz to 30MHz				
Limit:		Limit (c	lBuV)		
	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 logarithm	n of the frequency.			
Test Procedure:	 The mains terminal disturb room. The EUT was connected to 	-			
	 Impedance Stabilization Nimpedance. The power call connected to a second LIS reference plane in the same measured. A multiple sock power cables to a single Liexceeded. The tabletop EUT was place ground reference plane. An placed on the horizontal gr The test was performed will of the EUT shall be 0.4 m fivertical ground reference plane. The LISN unit under test and bonded mounted on top of the grout between the closest points the EUT and associated ed In order to find the maximule quipment and all of the im ANSI C63.10: 2013 on contaits 	etwork) which provides oles of all other units of in 2, which was bonder ine way as the LISN 1 for et outlet strip was used ISN provided the rating and for floor-standing ar round reference plane, th a vertical ground ref from the vertical ground ref from the vertical ground ref and to a ground reference und reference plane. The of the LISN 1 and the quipment was at least (in emission, the relative terface cables must be	a 50Ω/50µH + 5Ω linear the EUT were d to the ground or the unit being d to connect multiple of the LISN was not c table 0.8m above the rangement, the EUT was erence plane. The rear d reference plane. The e horizontal ground om the boundary of the plane for LISNs his distance was EUT. All other units of 0.8 m from the LISN 2. re positions of		

6.2 Conducted Emissions



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Test Setup:	Shielding Room Test Receiver Test			
Exploratory Test Mode:	 Non-hopping transmitting mode with all kind of modulation and all kind of data type at the lowest, middle, high channel. Charge + Transmitting mode. 			
Final Test Mode:	Through Pre-scan, find the DH1 of data type and GFSK modulation at the lowest channel is the worst case. Charge + Transmitting mode Only the worst case is recorded in the report.			
Instruments Used:	Refer to section 5.10 for details			
Test Results:	Pass			



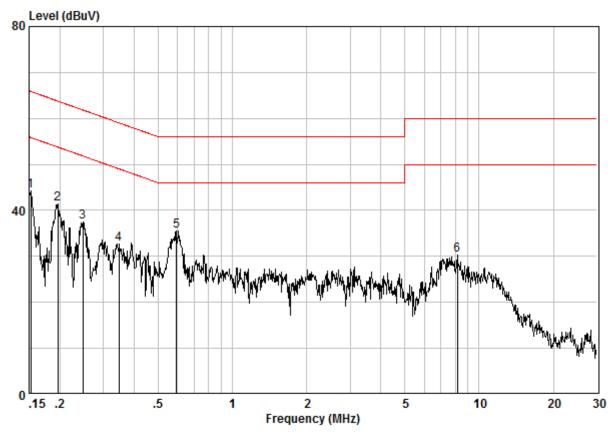
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Measurement Data

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:



 Site
 : Shielding Room

 Condition
 : CE LINE

 Job No.
 : 6854CR

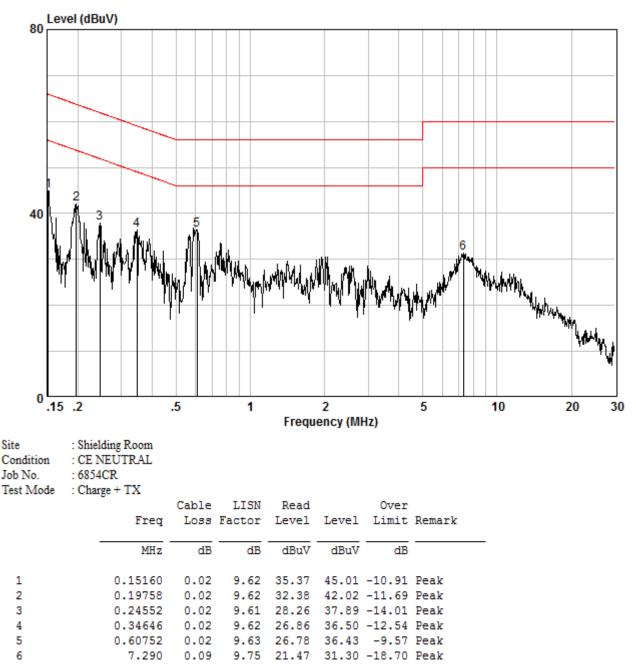
 Test Mode
 : Charge + TX

	Freq		LISN Factor		Level	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.15240	0.02	9.59	34.58	44.19	-11.68	Peak
2	0.19654	0.02	9.60	31.73	41.35	-12.41	Peak
3	0.24814	0.02	9.60	27.95	37.57	-14.25	Peak
4	0.34646	0.02	9.59	23.16	32.77	-16.28	Peak
5	0.59478	0.02	9.61	25.91	35.55	-10.45	Peak
6	8.148	0.10	9.69	20.49	30.29	-19.71	Peak



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Neutral line:



Notes:

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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6.3 Conducted Peak Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(1)		
Test Method:	ANSI C63.10:2013 Section 7.8.5		
Test Setup:	Spectrum Analyzer Image: E.U.T Non-Conducted Table Image: Ground Reference Plane Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.		
Limit:	20.97dBm(125mW)		
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type.		
Final Test Mode:	Through Pre-scan, find the DH1 of data type is the worst case of GFSK modulation type, 2-DH1 of data type is the worst case of $\pi/4DQPSK$ modulation type, 3-DH1 of data type is the worst case of 8DPSK modulation type.		
Instruments Used:	Refer to section 5.10 for details		
Test Results:	Pass		



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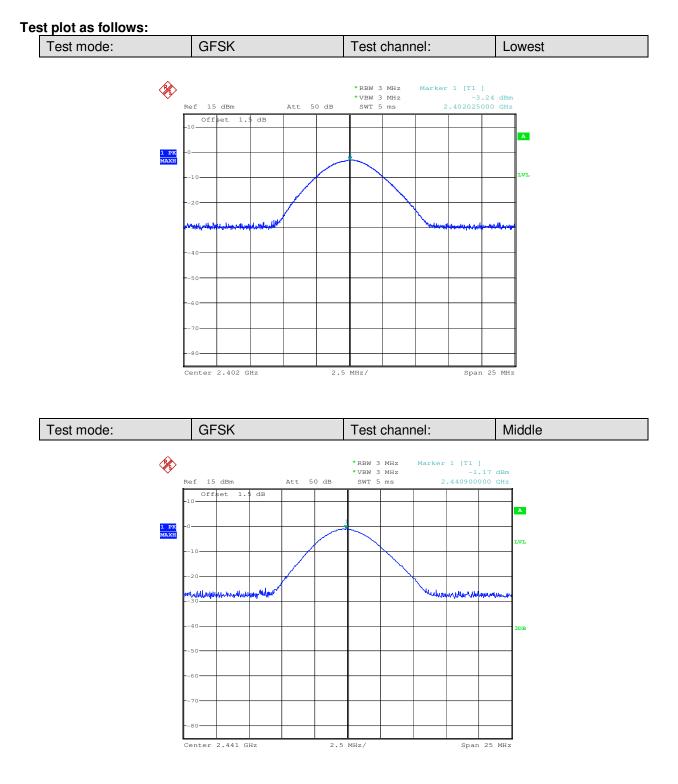
Measurement Data

GFSK mode						
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	-3.24	20.97dBm(125mW)	Pass			
Middle	-1.17	20.97dBm(125mW)	Pass			
Highest	-0.89	20.97dBm(125mW)	Pass			
	π/4DQPSK n	node				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	-3.00	20.97dBm(125mW)	Pass			
Middle	-0.84	20.97dBm(125mW)	Pass			
Highest	-0.98	20.97dBm(125mW)	Pass			
	8DPSK mode					
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	-3.06	20.97dBm(125mW)	Pass			
Middle	-0.79	20.97dBm(125mW)	Pass			
Highest	-1.05	20.97dBm(125mW)	Pass			

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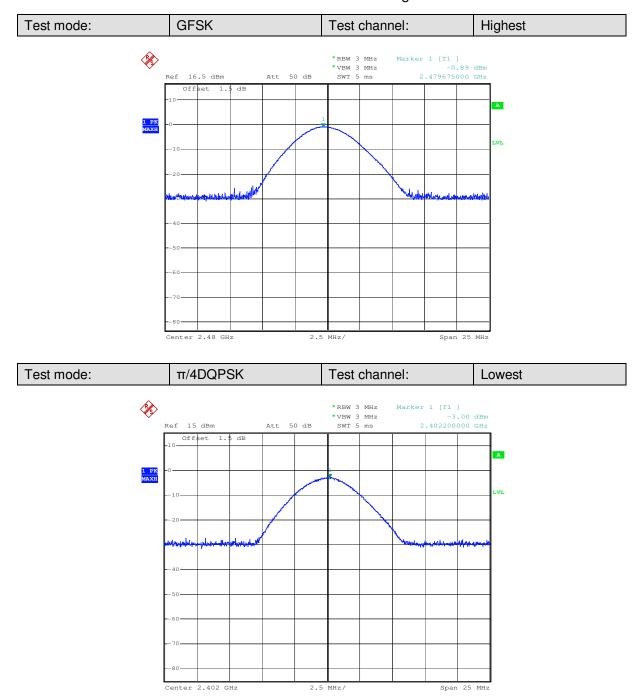


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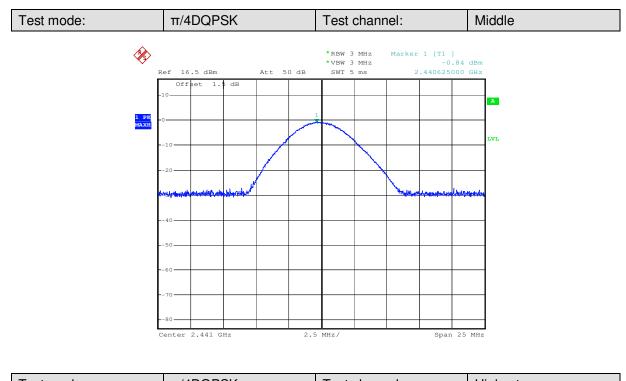


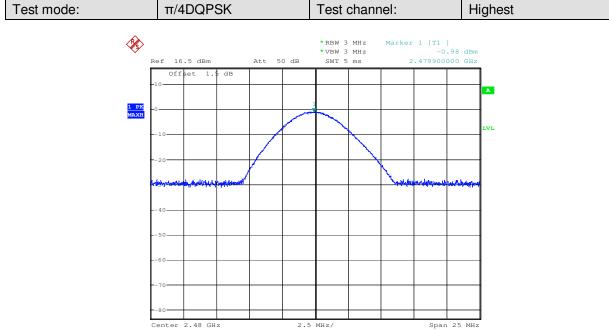
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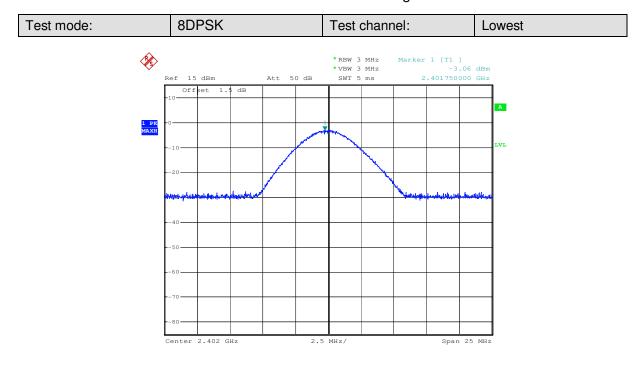
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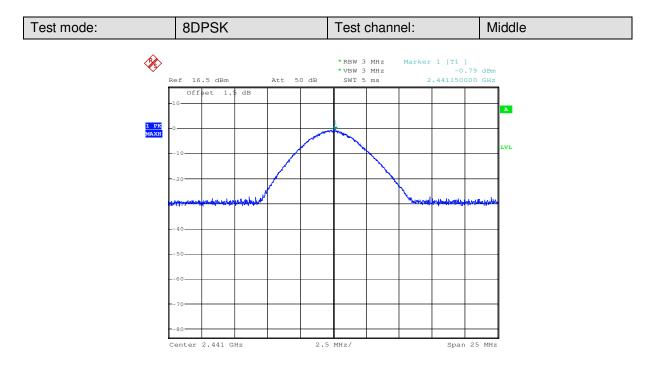






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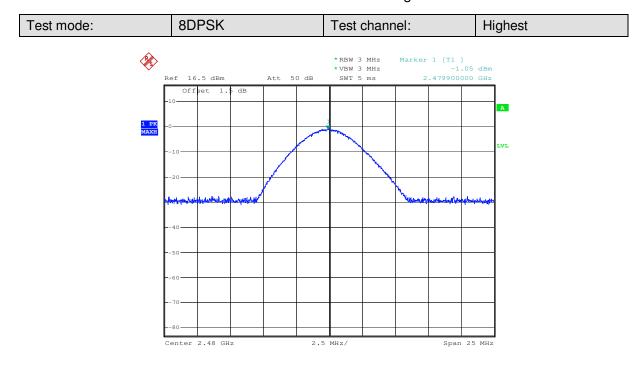




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6.4 20dB Occupy Bandwidth

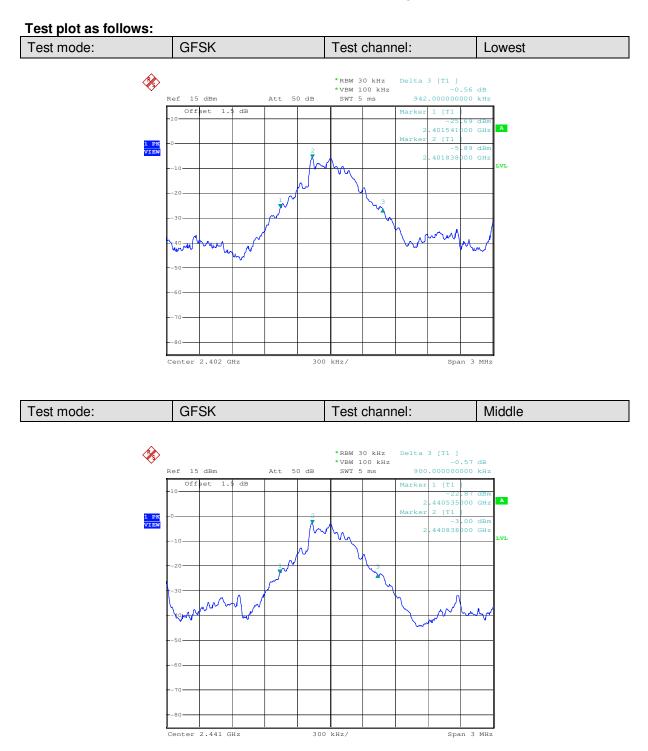
	r		
Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)		
Test Method:	ANSI C63.10:2013 Section 7.8.7		
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Limit:	NA		
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type.		
Final Test Mode:	Through Pre-scan, find the DH1 of data type is the worst case of GFSK modulation type, 2-DH1 of data type is the worst case of $\pi/4DQPSK$ modulation type, 3-DH1 of data type is the worst case of 8DPSK modulation type.		
Instruments Used:	Refer to section 5.10 for details		
Test Results:	Pass		

Measurement Data

	20dB Occupy Bandwidth (kHz)				
Test channel	GFSK	π/4DQPSK	8DPSK		
Lowest	942	1221	1215		
Middle	900	1221	1221		
Highest	894	1221	1230		



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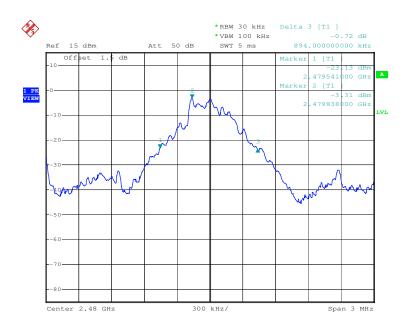


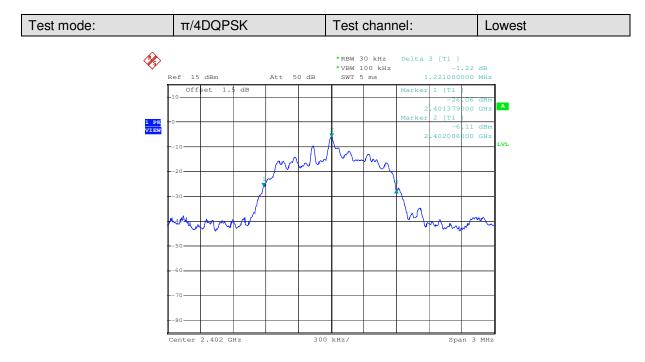
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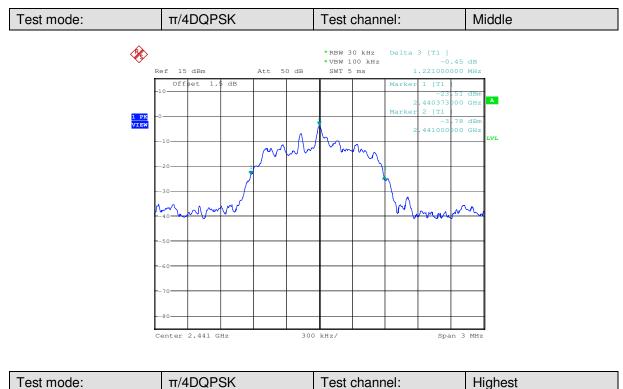
Test mode:	GFSK	Test channel:	Highest

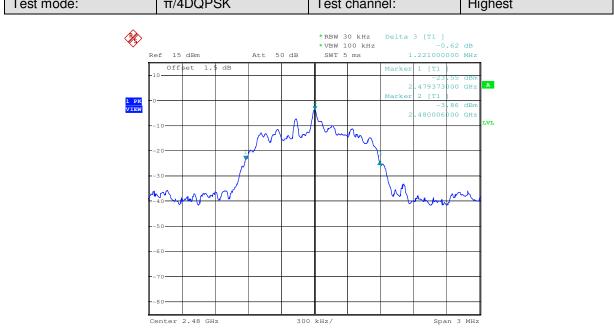






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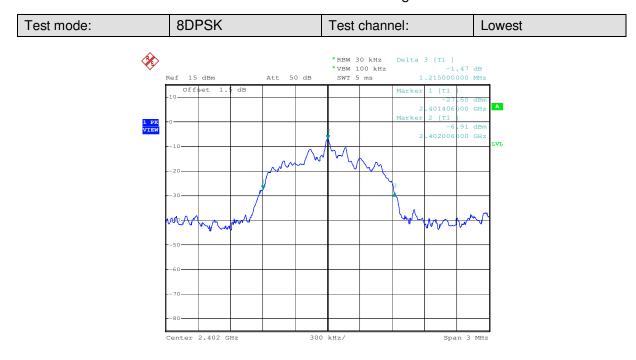


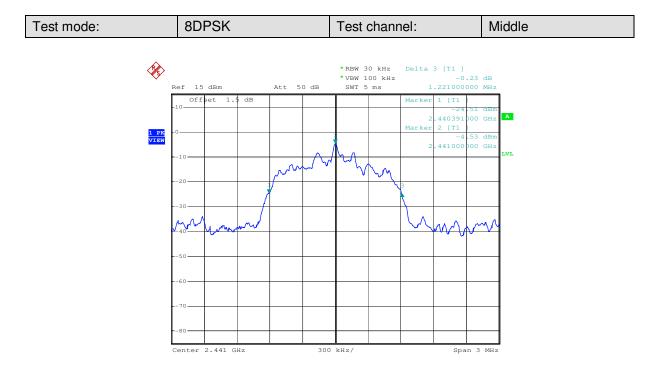


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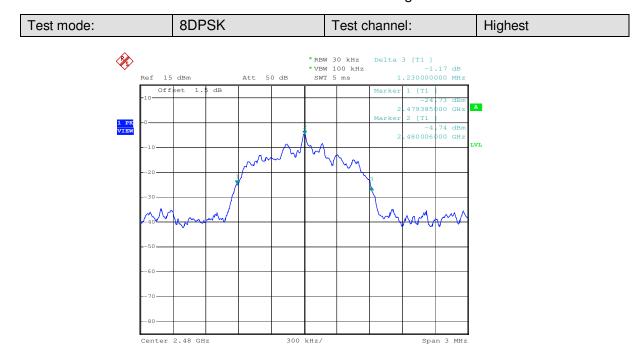
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6.5 Carrier Frequencies Separation

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)		
Test Method:	ANSI C63.10:2013 Section 7.8.2		
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Limit:	2/3 of the 20dB bandwidth		
	Remark: the transmission power is less than 0.125W.		
Exploratory Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type.		
Final Test Mode:	Through Pre-scan, find the DH1 of data type is the worst case of GFSK modulation type, 2-DH1 of data type is the worst case of π /4DQPSK modulation type, 3-DH1 of data type is the worst case of 8DPSK modulation type.		
Instruments Used:	Refer to section 5.10 for details		
Test Results:	Pass		

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GFSK mode			
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result
Middle	1029	628	Pass
π/4DQPSK mode			
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result
Middle	1041	814	Pass
8DPSK mode			
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result
Middle	1008	820	Pass

Note: According to section 6.4,

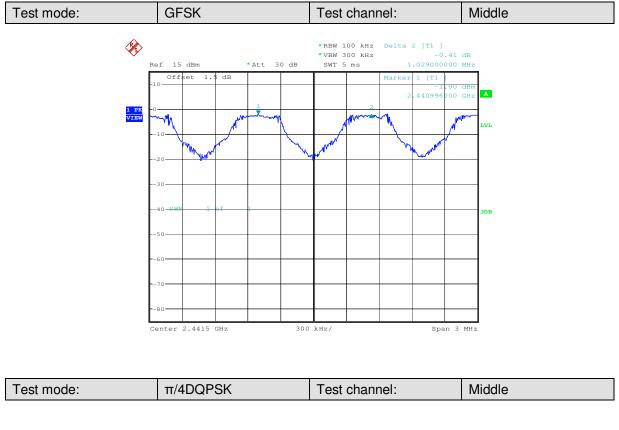
Mode	20dB bandwidth (kHz) (worse case)	Limit (kHz) (Carrier Frequencies Separation)
GFSK	942	628
π/4DQPSK	1221	814
8DPSK	1230	820

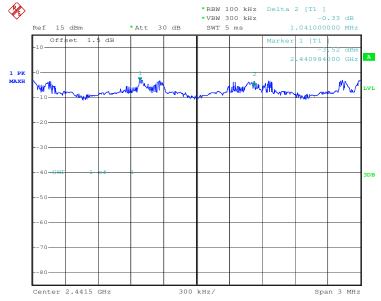
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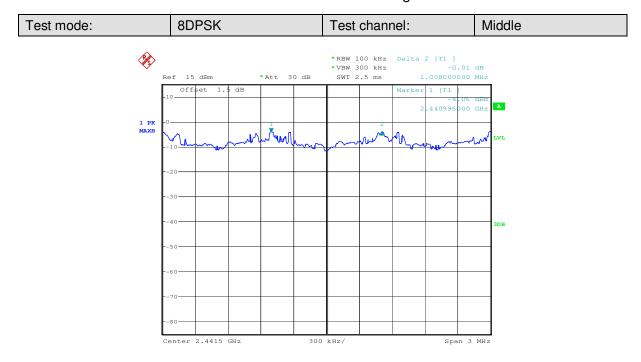
Test plot as follows:







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6.6 Hopping Channel Number

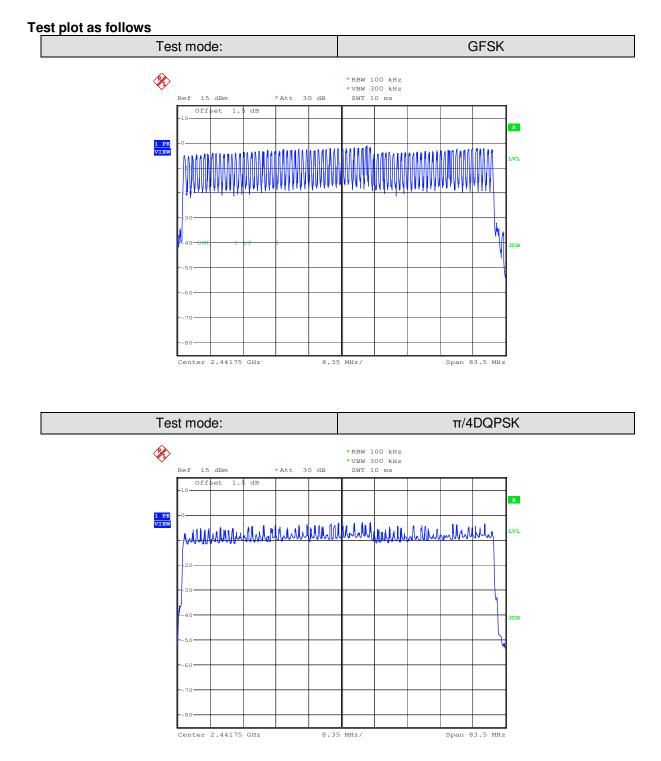
Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)	
Test Method:	ANSI C63.10:2013 Section 7.8.3	
Test Setup:	ANSI C63.10:2013 Section 7.8.3	
Limit:	At least 15 channels	
Test Mode:	Hopping transmitting with all kind of modulation	
Instruments Used:	Refer to section 5.10 for details	
Test Results:	Pass	

Measurement Data

Mode	Hopping channel numbers	Limit
GFSK	79	≥15
π/4DQPSK	79	≥15
8DPSK	79	≥15



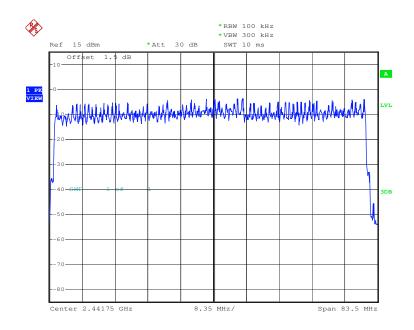
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6.7 Dwell Time

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)		
Test Method:	ANSI C63.10:2013 Section 7.8.4		
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table		
	Ground Reference Plane		
Instruments Used:	Refer to section 5.10 for details		
Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type.		
Limit:	0.4 Second		
Test Results:	Pass		

Measurement Data

Mode	Packet	Dwell time (second)	Limit (second)
GFSK	DH1	0.12	≤0.4
	DH3	0.27	≤0.4
	DH5	0.32	≤0.4
π/4DQPSK	2-DH1	0.13	≤0.4
	2-DH3	0.27	≤0.4
	2-DH5	0.32	≤0.4
8DPSK	3-DH1	0.13	≤0.4
	3-DH3	0.27	≤0.4
	3-DH5	0.32	≤0.4



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Remark:

The test period: T= 0.4 Second/Channel x 79 Channel = 31.6 s On (ms)*total number=dwell time (ms) The middle channel (2441MHz), as below: DH1 time slot=0.400 (ms)*total number=128.00(ms) DH3 time slot=1.662 (ms)* total number = 265.92 (ms) DH5 time slot=2.912 (ms)* total number = 320.32 (ms) 2-DH1 time slot=0.419 (ms)*total number=134.08 (ms) 2-DH3 time slot=1.674 (ms)* total number = 267.84 (ms) 2-DH5 time slot=2.928 (ms)* total number = 322.08 (ms) 3-DH1 time slot=0.418 (ms)*total number=133.76 (ms)

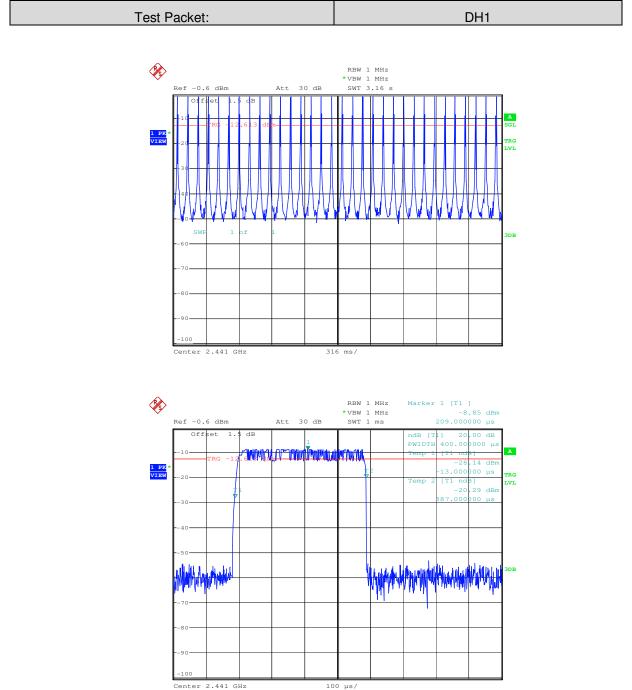
3-DH3 time slot=1.671 (ms)* total number = 267.36 (ms)

3-DH5 time slot=2.928 (ms)* total number = 322.08 (ms)



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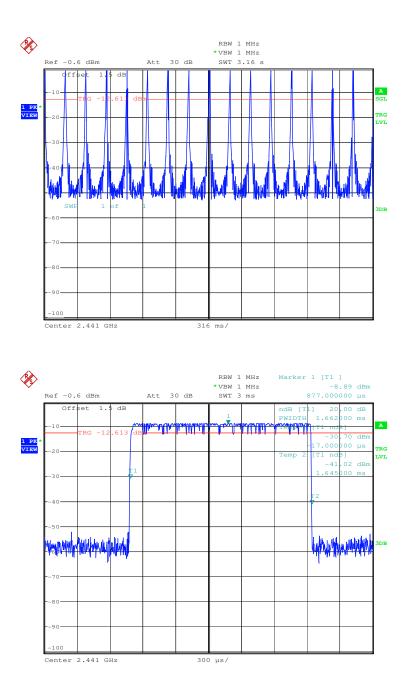
Test plot as follows:





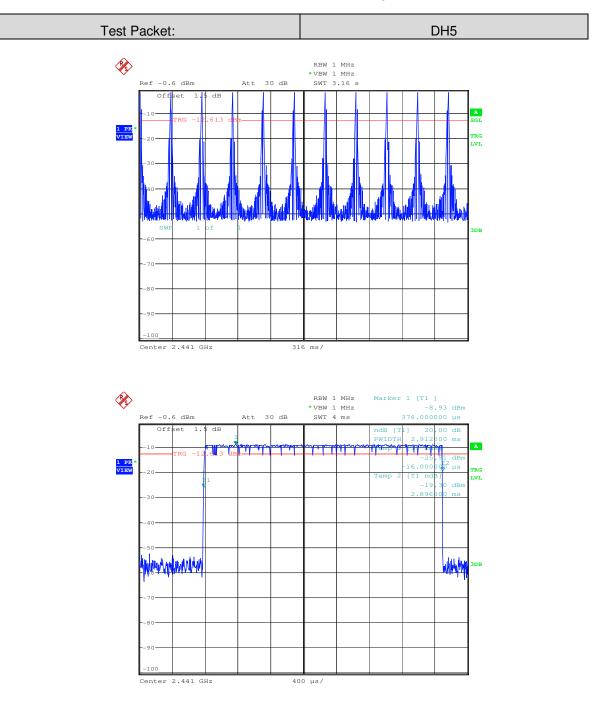
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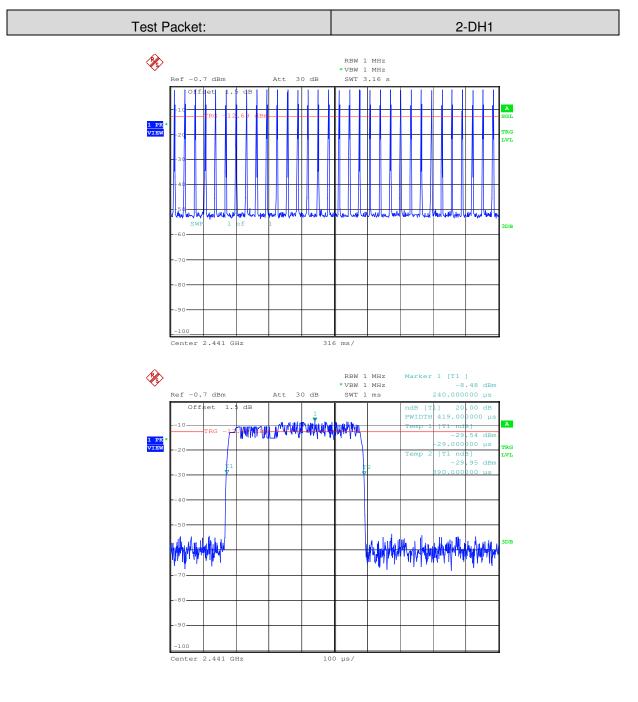


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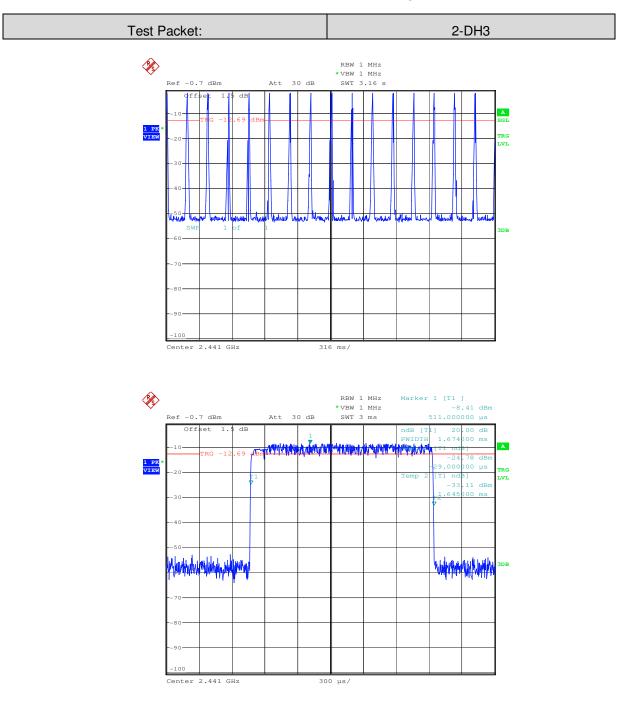


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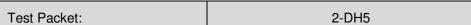


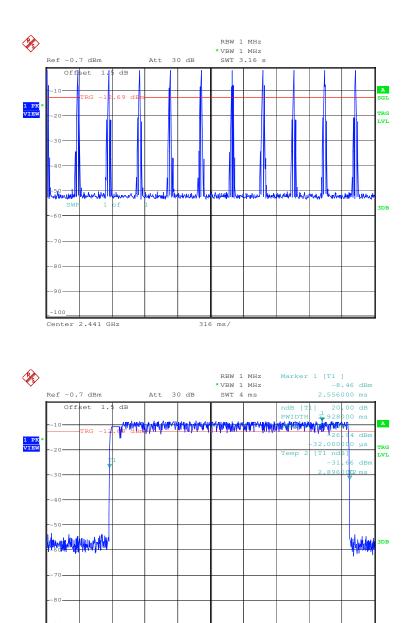
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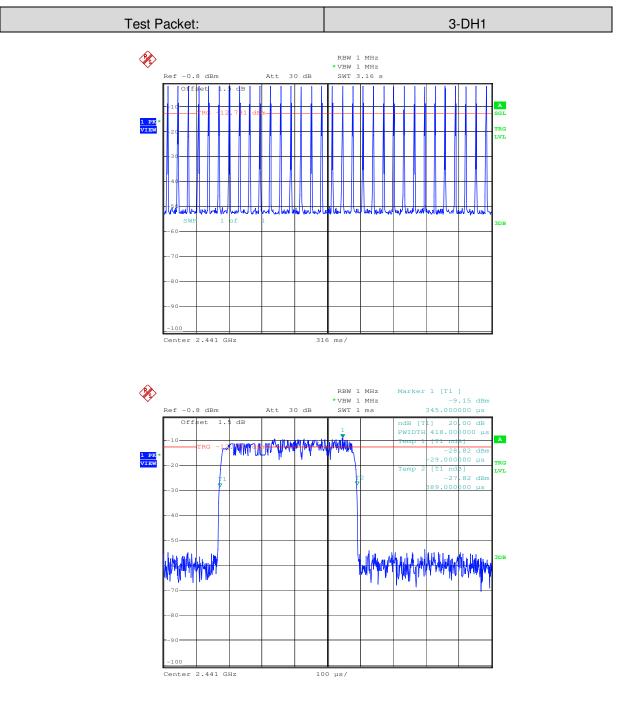




Center 2.441 GHz 400 µs/



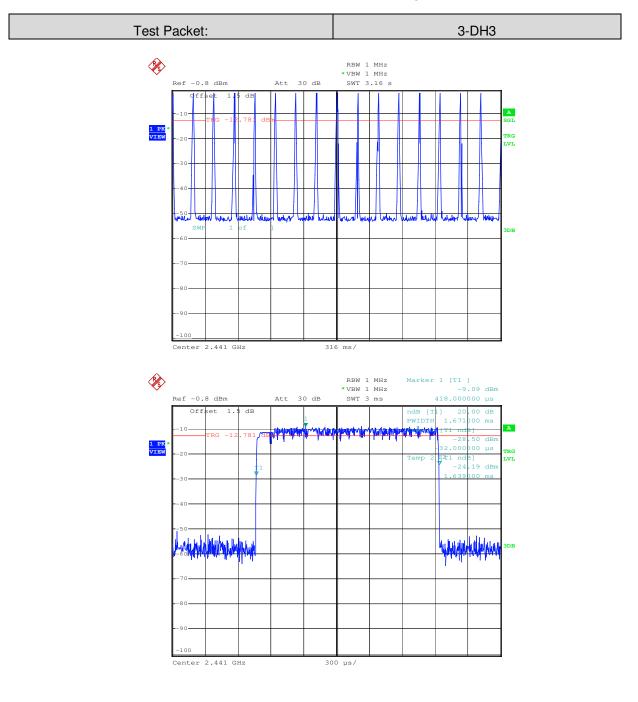
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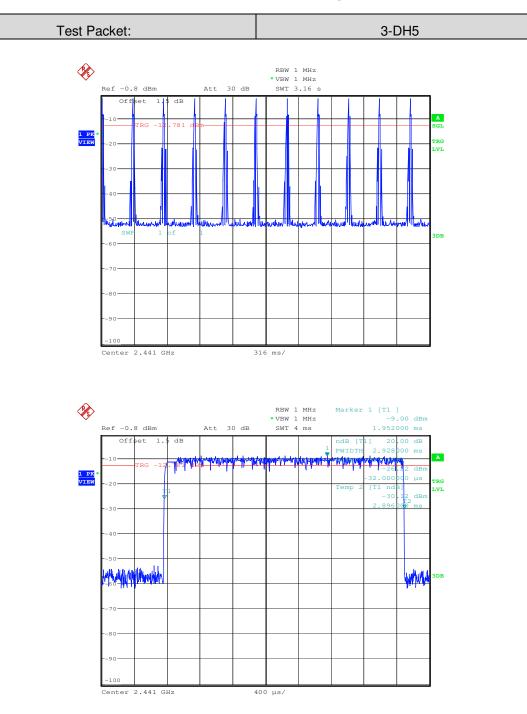
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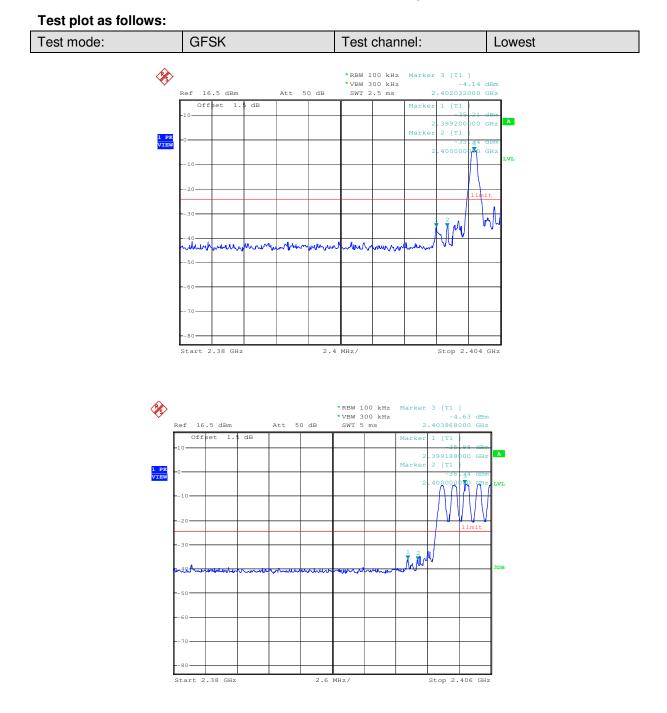
Test Requirement: 47 CFR Part 15C Section 15.247 (d) Test Method: ANSI C63.10:2013 Section 7.8.6 Test Setup: Spectrum Analyzer E.U.T Non-Conducted Table **Ground Reference Plane** Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer. Limit: In any 100 kHz bandwidth outside the 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. 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 DH1 of data type is the worst case of GFSK modulation type, 2-DH1 of data type is the worst case of $\pi/4DQPSK$ modulation type, 3-DH1 of data type is the worst case of 8DPSK modulation type. Instruments Used: Refer to section 5.10 for details Test Results: Pass

6.8 Band-edge for RF Conducted Emissions

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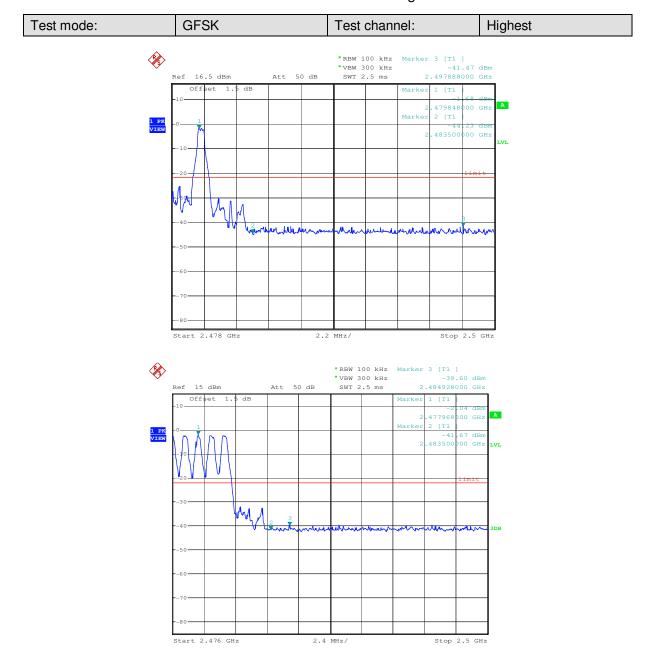


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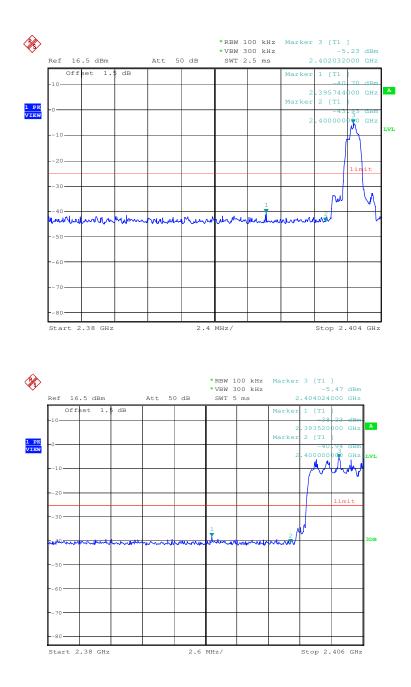
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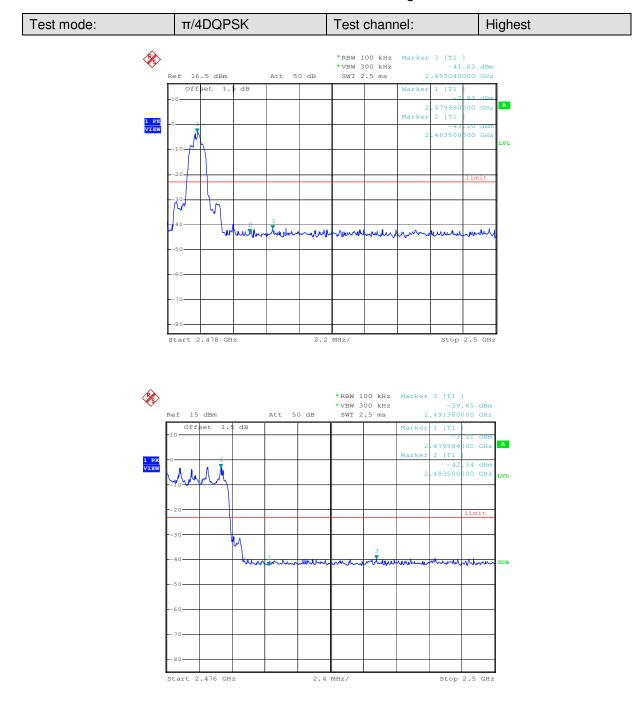
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Test mode:	π/4DQPSK	Test channel:	Lowest



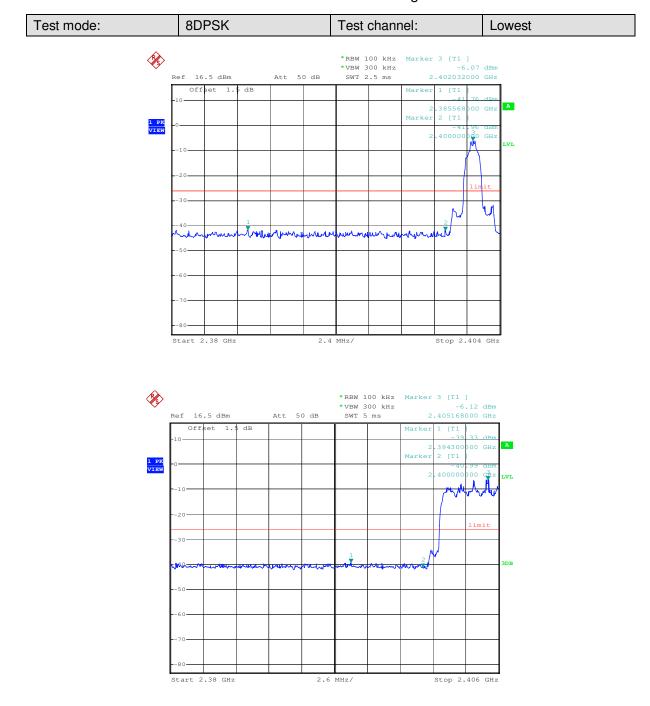


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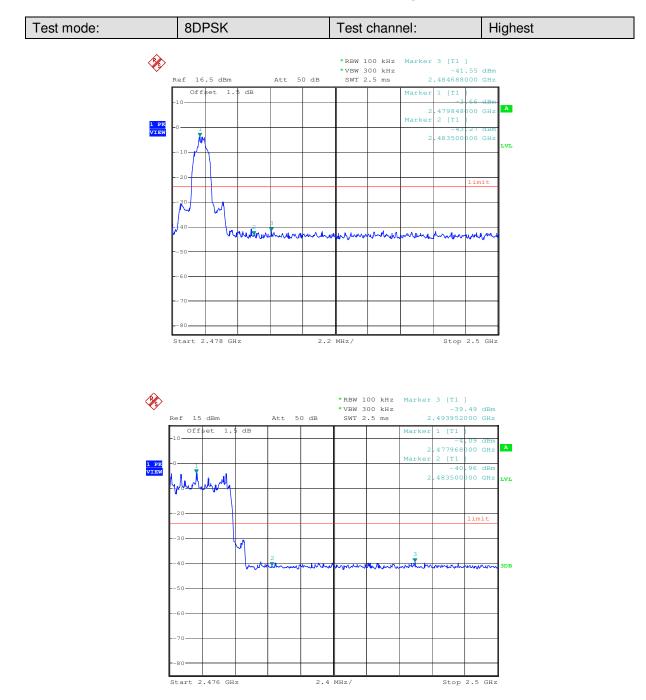


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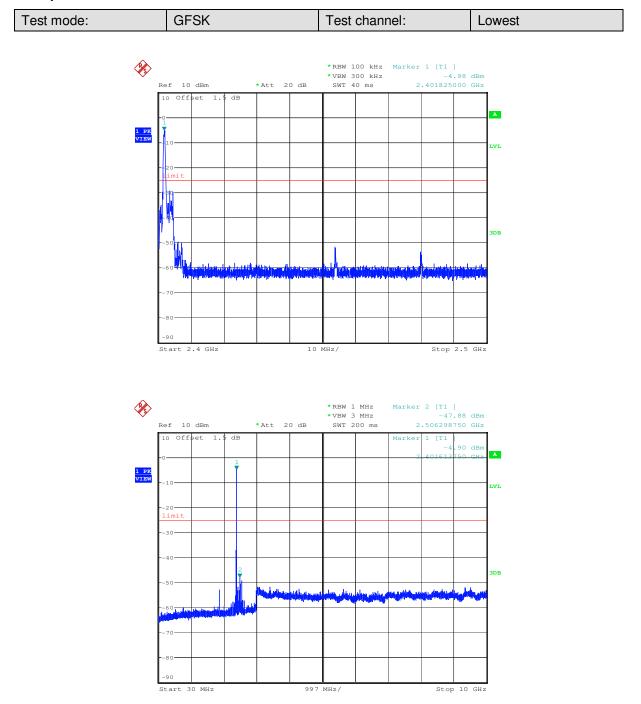
6.9 Spurious RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)			
Test Method:	ANSI C63.10:2013 Section 7.8.8			
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
	Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.			
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.			
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type			
Final Test Mode:	Through Pre-scan, find the DH1 of data type is the worst case of GFSK modulation type, 2-DH1 of data type is the worst case of π /4DQPSK modulation type, 3-DH1 of data type is the worst case of 8DPSK modulation type.			
Instruments Used:	Refer to section 5.10 for details			
Test Results:	Pass			



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Test plot as follows:

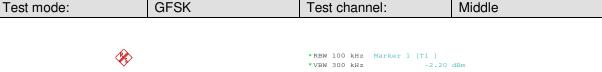




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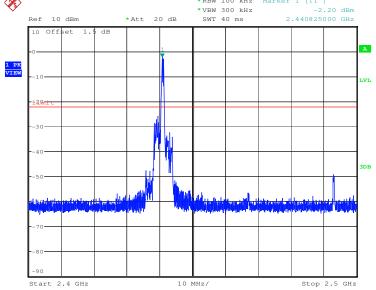
and a late

Start 10 GHz



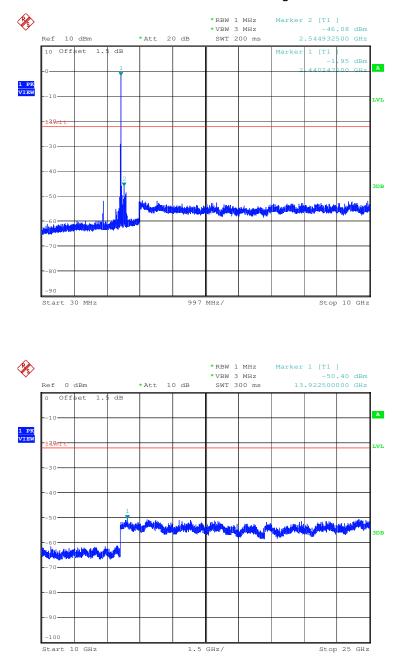
1.5 GHz/

Stop 25 GHz



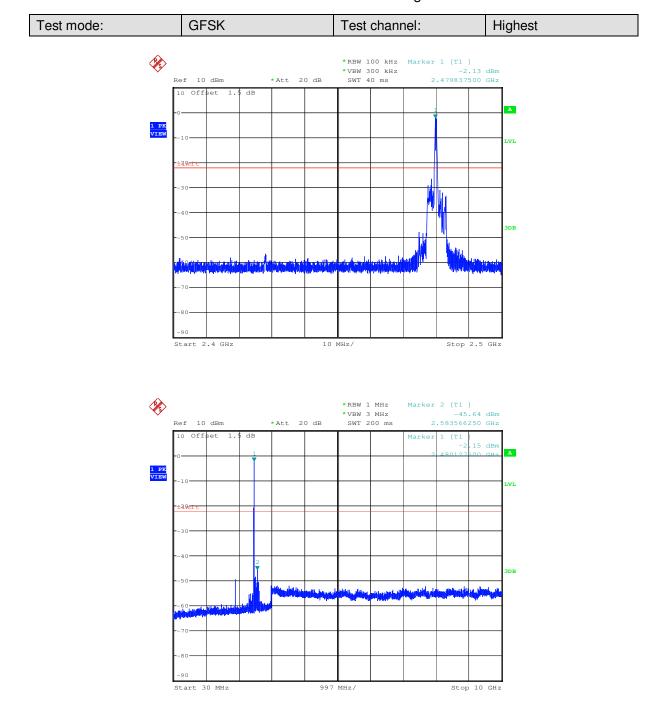


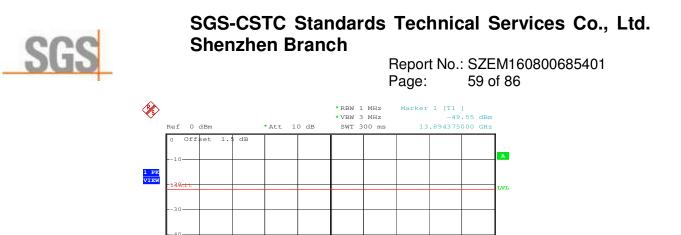
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Stop 25 GHz

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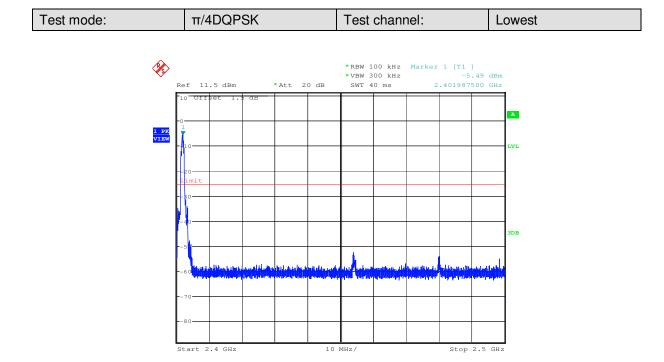
a Market

Start 10 GHz

......

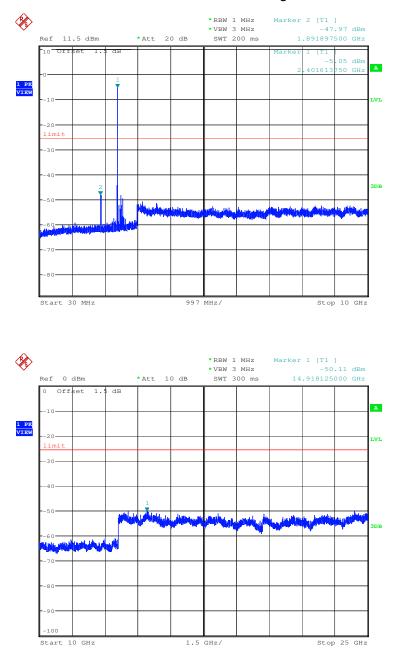
1.5 GHz/

al Provide





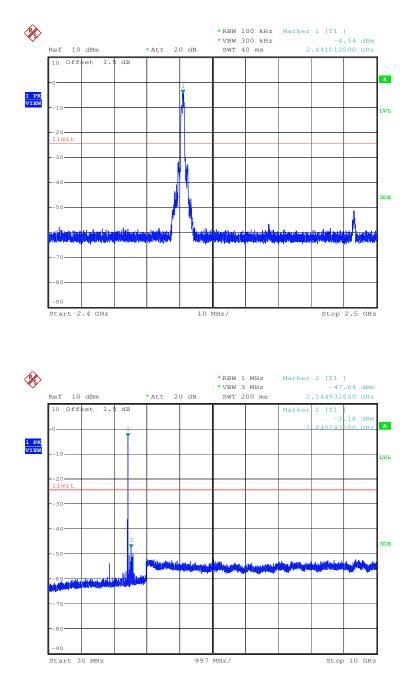
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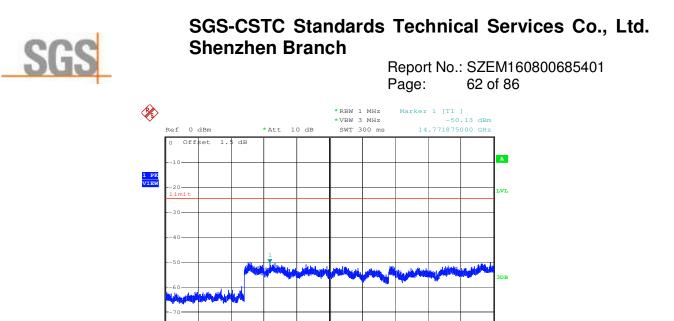


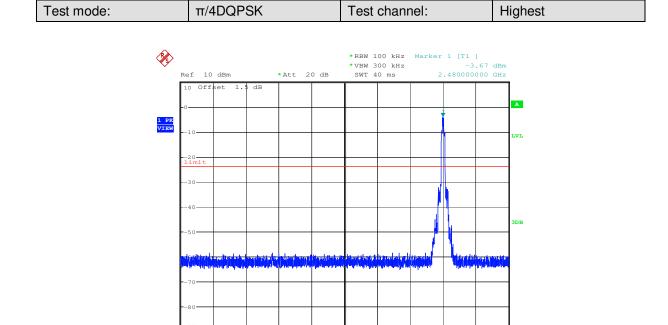
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10 MHz/

1.5 GHz/

Stop 25 GHz

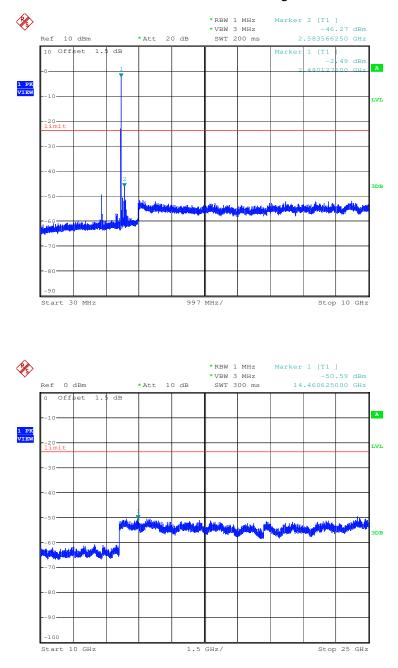
Stop 2.5 GHz

Start 10 GHz

Start 2.4 GHz



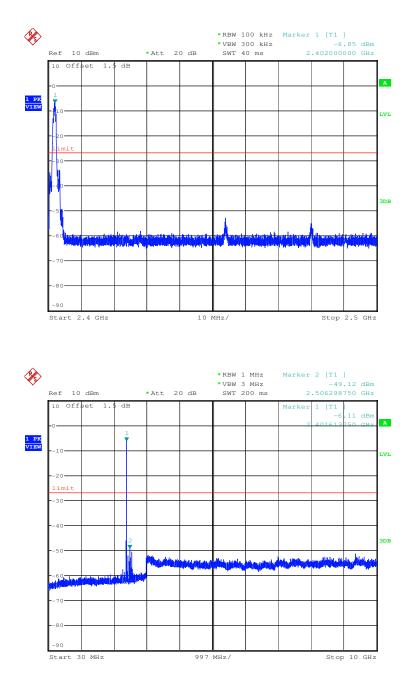
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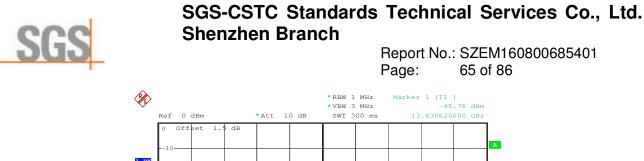


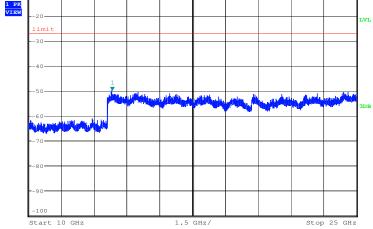


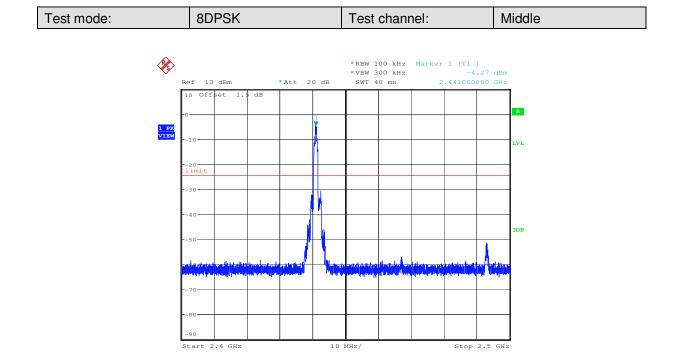
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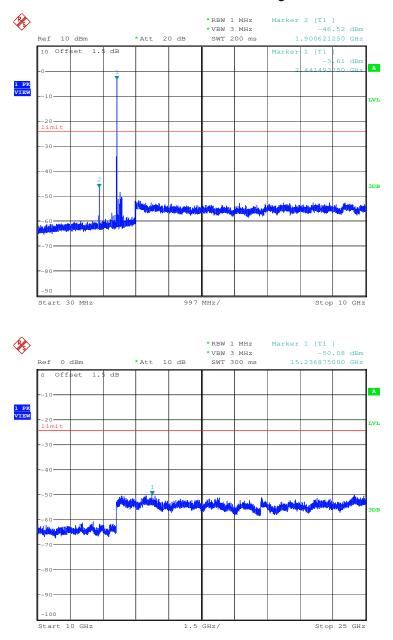








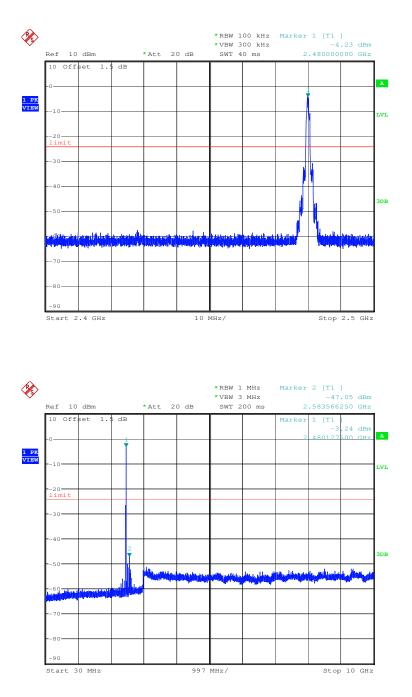
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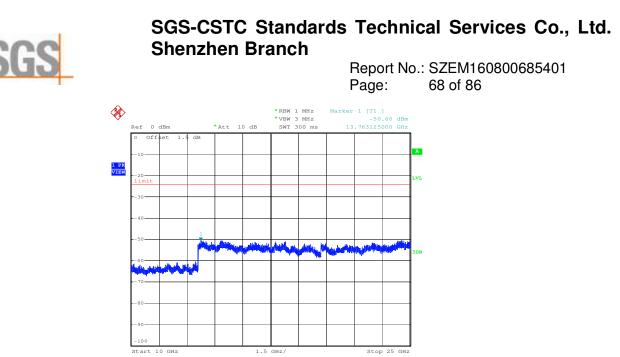




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Date: 14.AUG.2016 14:49:30

Remark:

Use 100kHz RBW to determine the relative limit in the band 2.4GHz to 2.5GHz, and Use 1MHz RBW to measure spurious emissions in the band 30MHz to 10GHz and 10GHz to 25GHz. The sweep points set to 30001.



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6.10 Other requirements Frequency Hopping Spread Spectrum System

Test Requirement: 47 CFR Part 15C Section 15.247 (a))(1), (h) requirement:
The system shall hop to channel frequencies that are selected at t rate from a Pseudorandom ordered list of hopping frequencies. Ea on the average by each transmitter. The system receivers shall ha hopping channel bandwidths of their corresponding transmitters ar synchronization with the transmitted signals.	ch frequency must be used equally ve input bandwidths that match the
Frequency hopping spread spectrum systems are not required to channels during each transmission. However, the system, consist receiver, must be designed to comply with all of the regulations in transmitter be presented with a continuous data (or information) st employing short transmission bursts must comply with the definition and must distribute its transmissions over the minimum number of this section.	ng of both the transmitter and the this section should the ream. In addition, a system n of a frequency hopping system
The incorporation of intelligence within a frequency hopping spreat the system to recognize other users within the spectrum band so to independently chooses and adapts its hopsets to avoid hopping of The coordination of frequency hopping systems in any other many avoiding the simultaneous occupancy of individual hopping freque not permitted.	hat it individually and n occupied channels is permitted. er for the express purpose of
Compliance for section 15.247(a)(1)	
 According to Bluetooth Core Specification, the pseudorandom second stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is stage. The sequence begins with the first ONE of 9 consecutive O 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) 	s fed back to the input of the first
Linear Feedback Shift Register for Generation of the	PRBS sequence
An example of Pseudorandom Frequency Hopping Sequence as f	
20 62 46 77 7 64 8 73	
Each frequency used equally on the average by each transmitter.	
According to Bluetooth Core Specification, Bluetooth receivers a bandwidths that match the hopping channel bandwidths of an frequencies in synchronization with the transmitted signals.	
Compliance for section 15.247(g)	

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

Compliance for section 15.247(h)

According to Bluetooth Core specification, the Bluetooth 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.

According to the Bluetooth Core specification, the Bluetooth 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.



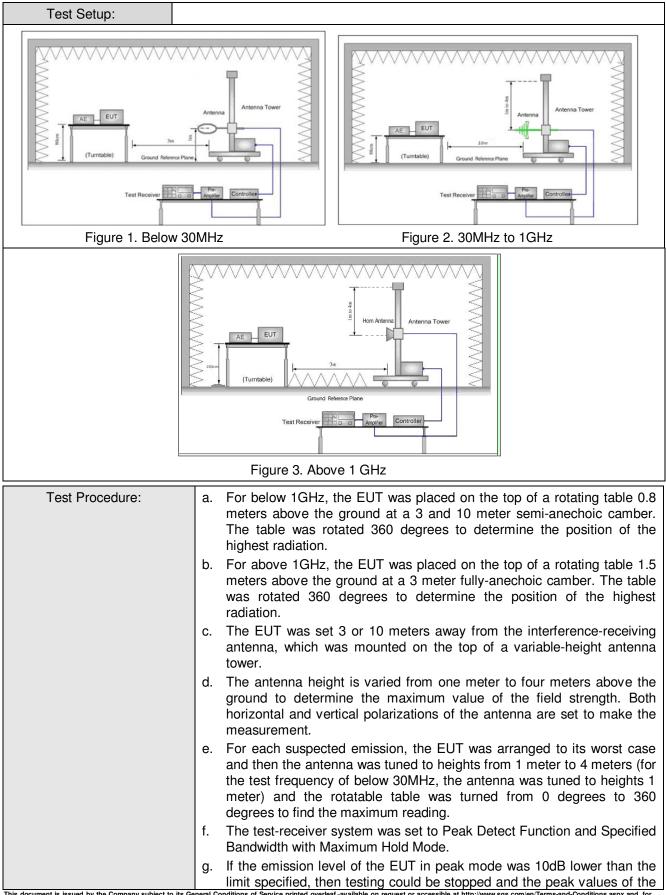
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6.11 Radiated Spurious Emission

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205								
Test Method:	ANSI C63.10: 2013								
Test Site:	Measurement Distance: 10m (Semi-Anechoic Chamber)								
	3m(Fully-Anechoic Chamber)								
Receiver Setup:	Frequency		Detector	RBW	VBW	Remark			
	0.009MHz-0.090MHz Peak			10kHz	30kHz	Peak			
	0.009MHz-0.090MHz Average			10kHz	30kHz	Average			
	0.090MHz-0.110MHz		Quasi-peak	10kHz	30kHz	Quasi-peak			
	0.110MHz-0.490MHz		Peak	10kHz	30kHz	Peak			
	0.110MHz-0.490MHz		Average	10kHz	30kHz	Average			
	0.490MHz -30MHz		Quasi-peak	10kHz	30kHz	Quasi-peak			
	30MHz-1GHz		Quasi-peak	100 kHz	300kHz	Quasi-peak			
	Above 1GHz		Peak	1MHz	3MHz	Peak			
			Peak	1MHz	10Hz	Average			
Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)			
	0.009MHz-0.490MHz 2400/F(kHz) 0.490MHz-1.705MHz 24000/F(kHz)		400/F(kHz)	-	-	300			
			4000/F(kHz)	-	-	30			
	1.705MHz-30MHz	30		-	-	30			
	30MHz-88MHz	29.9		29.5	Quasi-peak	< 10			
	88MHz-216MHz	44.7		33	Quasi-peak	x 10			
	216MHz-960MHz	60.3		35.5	Quasi-peak	« 10			
	960MHz-1GHz	100		43.5	Quasi-peak	« 10			
	Above 1GHz	500		54.0	Average	3			
	Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequer emissions is 20dB above the maximum permitted average emission applicable to the equipment under test. This peak limit applies to the peak emission level radiated by the device.								



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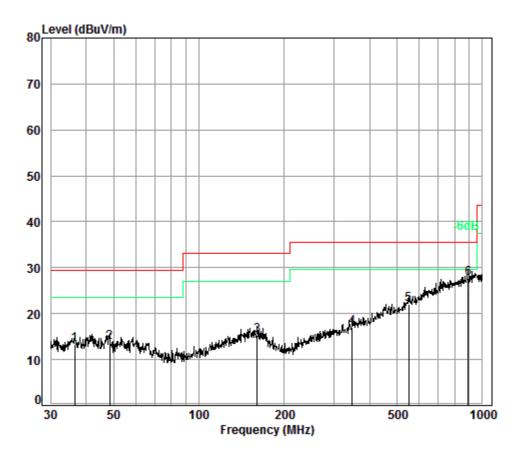
	 EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. h. Test the EUT in the lowest channel (2402MHz),the middle channel (2441MHz),the Highest channel (2480MHz) i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. j. Repeat above procedures until all frequencies measured was complete. 						
Exploratory Test Mode:	lon-hopping transmitting mode with all kind of modulation and all kind of						
	data type						
	Transmitting mode, Charge + Transmitting mode.						
Final Test Mode:	Through Pre-scan, find the DH1 of data type and GFSK modulation is the worst case.						
	Pretest the EUT at Transmitting mode and Charge + Transmitting mode, found the Charge + Transmitting mode which it is worse case						
	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 5.10 for details						
Test Results:	Pass						



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6.11.1 Radiated Emission below 1GHz

30MHz~1GHz (QP)		
Test mode:	Charge + Transmitting	Vertical



Condition: 10m VERTICAL Job No. : 6854RG

Test Mode: Charge + TX mode

		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
-	MHz	dB			-dB-W	dBull (m	dPu\//m	dB
	mnz	ub	ub/m	dB	ubuv	ubuv/m	ubuv/m	ub
1	36.51	6.73	12.85	32.98	26.63	13.23	29.50	-16.27
2	48.50	6.87	12.81	33.00	27.10	13.78	29.50	-15.72
3	160.91	7.50	13.30	32.73	27.14	15.21	33.10	-17.89
4	348.03	8.24	13.80	32.60	27.58	17.02	35.60	-18.58
5	549.02	8.77	17.71	32.60	28.19	22.07	35.60	-13.53
6 pp	890.73	9.50	22.10	32.51	28.52	27.61	35.60	-7.99

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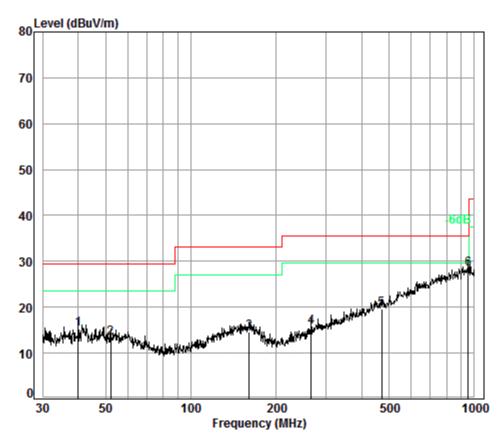
6 pp

952.09

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```
Test mode: Charge + Transmitting Horizontal
```



Job N	tion: 10m o. : 685 Mode: Char	4RG	TX mod	e Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	40.13	6.80	13.31	32.99	28.19	15.31	29.50	-14.19
2	52.21	6.95	12.60	32.99	26.76	13.32	29 50	-16.18
3	160.91	7.50	13.30	32.73	26.63	14.70	33.10	-18.40
4	265.68	7.93	11.69	32.63	28.60	15.59	35.60	-20.01
5	470.52	8.48	16.40	32,60	27.43	19.71	35,60	-15.89
-								

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9.58 22.74 32.50 28.48 28.30 35.60 -7.30



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Test mode: GFSK(DH1) Test channel: Remark: Lowest Peak Antenna Cable Preamp Read Over Frequency Limit Line Level factors Factor Limit Polarization Loss Level (MHz) (dBuV/m) (dBuV/m) (dB/m) (dB) (dB) (dBuV) (dB) 3836.607 33.16 7.75 38.63 44.70 46.98 74 -27.02 Vertical 4804.000 8.87 39.03 64.86 68.86 74 -5.14 Vertical 34.16 6247.618 34.90 10.24 38.84 44.86 51.16 74 -22.84 Vertical Vertical 7206.000 36.42 10.68 38.18 59.78 68.70 74 -5.30 37.52 9608.000 12.50 36.99 40.19 53.22 74 -20.78 Vertical 12279.260 38.77 14.33 38.59 38.76 53.27 74 -20.73 Vertical 3847.726 33.19 7.76 38.63 45.31 47.63 74 -26.37 Horizontal 74 4804.000 34.16 8.87 39.03 60.78 64.78 -9.22 Horizontal 6060.637 34.75 10.48 38.96 44.34 50.61 74 -23.39 Horizontal 7206.000 36.42 10.68 38.18 53.22 62.14 74 -11.86 Horizontal 37.52 52.70 Horizontal 9608.000 12.50 36.99 39.67 74 -21.30 12137.940 14.45 38.44 53.78 74 -20.22 38.68 39.09 Horizontal

6.11.2 Transmitter Emission above 1GHz

Test mo	de:	GFSK(DH	1) Tes	t channel:	Lowes	t	Remark:	Average
Frequency (MHz)	Antenn factors (dB/m)	s Loss	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Liı (dBuV/r	I Imit	Polarization
4804.000	34.15	8.86	39.03	44.31	48.29	54	-5.71	Vertical
7206.000	36.41	10.68	38.18	39.51	48.42	54	-5.58	Vertical
4804.000	34.15	8.86	39.03	43.81	47.79	54	-6.21	Horizontal
7206.000	36.41	10.68	38.18	37.61	46.52	54	-7.48	Horizontal

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Test mod	de:	GFSK(DH1)	Tes	t channel:	Middle	Middle		mark:	Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable Loss (dB)	-	ble ss B)	Reading Level (dBµV)	Emission Level (dBµV/m)		mit 1V/m)	Over limit (dB)	Polarization
3842.163	33.18	7.76	38.	.63	45.00	47.31	7	74	-26.69	Vertical
4882.000	34.30	8.98	39.	.06	62.32	66.54	7	74	-7.46	Vertical
6043.124	34.74	10.50	38.	.97	44.78	51.05	7	74	-22.95	Vertical
7323.000	36.37	10.72	38.	.06	57.27	66.30	7	74	-7.70	Vertical
9764.000	37.55	12.58	36.	.91	39.52	52.74	7	74	-21.26	Vertical
12639.790	38.87	14.55	38.	.95	38.96	53.43	7	74	-20.57	Vertical
3502.344	32.21	7.63	38.	.47	45.85	47.22	7	74	-26.78	Horizontal
4882.000	34.30	8.98	39.	.06	61.18	65.40	7	74	-8.60	Horizontal
6069.413	34.76	10.47	38.	.96	45.01	51.28	7	74	-22.72	Horizontal
7323.000	36.37	10.72	38.	.06	52.95	61.98	7	74	-12.02	Horizontal
9764.000	37.55	12.58	36.	.91	39.54	52.76	7	74	-21.24	Horizontal
12476.260	38.89	14.17	38.	.79	38.77	53.04	7	74	-20.96	Horizontal

Test mod	de:	GFSK(DH1)		Test channel:		Middle	Middle		mark:	Average
Frequency (MHz)	Antenna factors (dB/m)	Cable Loss (dB)	Ca Lo (d	SS	Reading Level (dBµV)	Emission Level (dBµV/m)		mit ıV/m)	Over limit (dB)	Polarization
4882.000	34.30	8.98	39.	.06	42.80	47.02	5	54	-6.98	Vertical
7323.000	36.37	10.73	38.	.06	38.49	47.53	5	54	-6.47	Vertical
4882.000	34.30	8.98	39.	.06	43.20	47.42	5	54	-6.58	Horizontal
7323.000	36.37	10.73	38.	.06	36.79	45.83	5	54	-8.17	Horizontal

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Test mod	de:	GFSK(DH	1)	Tes	t channel:	Highes	t	Re	mark:	Peak
Frequency (MHz)	Antenn factors (dB/m	Loss	PreampReadingEmissionLimitfactorLevelLevel(dBμV/m)(dB)(dBμV)(dBμV/m)		Over limit (dB)	Polarization				
3781.495	33.01	7.73	38	.60	44.66	46.80	7	' 4	-27.20	Vertical
4960.000	34.43	9.09	39	.09	63.23	67.66	7	74	-6.34	Vertical
6034.386	34.73	10.52	38	.98	44.76	51.03	7	74	-22.97	Vertical
7440.000	36.32	10.77	37	.94	56.67	65.82	7	74	-8.18	Vertical
9920.000	37.58	12.67	36	.84	39.27	52.68	7	74	-21.32	Vertical
12261.500	38.76	14.34	38	.57	38.79	53.32	7	74	-20.68	Vertical
3786.970	33.03	7.74	38	.60	45.10	47.27	7	74	-26.73	Horizontal
4960.000	34.43	9.09	39	.09	60.54	64.97	7	74	-9.03	Horizontal
6175.716	34.84	10.33	38	.89	44.24	50.52	7	74	-23.48	Horizontal
7440.000	36.32	10.77	37	.94	51.54	60.69	7	' 4	-13.31	Horizontal
9920.000	37.58	12.67	36	.84	39.17	52.58	7	74	-21.42	Horizontal
12368.410	38.82	14.26	38	.68	39.20	53.60	7	74	-20.40	Horizontal

Test mod	de:	GFSK(DH1)		Test channel:		Highest		Remark:		Peak
Frequency (MHz)	Antenna factors (dB/m)	Loss Cable Loss (dB)	Prea fact (dE	tor	Reading LevelEmission LevelLimit (dBµV)(dBµV)(dBµV/m)		Over limit (dB)	Polarization		
4960.000	34.43	9.08	39.0	80	42.99	47.42	5	54	-6.58	Vertical
7440.000	36.32	10.77	37.9	94	38.60	47.75	5	54	-6.25	Vertical
4960.000	34.44	9.09	39.0	09	43.60	48.04	5	54	-5.96	Horizontal
7440.000	36.32	10.77	37.9	94	36.60	45.75	5	54	-8.25	Horizontal

Remark:

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

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

2) Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the above measurements were shown in the report.

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6.12 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section	n 15.209 and 15.205							
Test Method:	ANSI C63.10: 2013								
Test Site:	Measurement Distance:	3m (Semi-Anechoic Chambe 3m(Fully-Anechoic Chamber	,						
Limit:	Frequency	Limit (dBuV/m @3m)	Remark						
	30MHz-88MHz	40.0	Quasi-peak Value						
	88MHz-216MHz	43.5	Quasi-peak Value						
	216MHz-960MHz	46.0	Quasi-peak Value						
	960MHz-1GHz	54.0	Quasi-peak Value						
	Above 1GHz	54.0	Average Value						
		74.0	Peak Value						
Test Setup:									
Figure 1. 30MF	Iz to 1GHz	Figure 2. Abov	ve 1 GHz						

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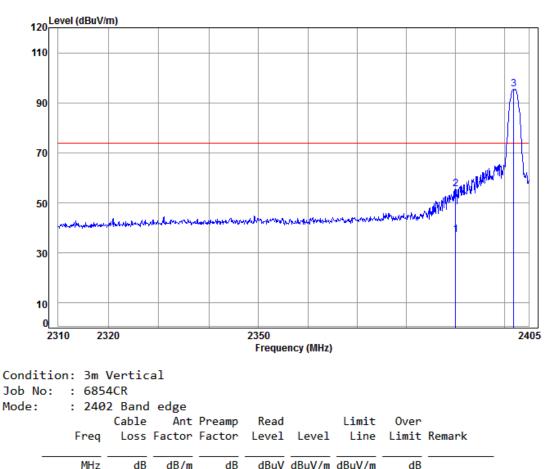
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Test Procedure:a.For below 1GHz, the EUT was placed on the top of a 0.8 meters above the ground at a 3 meter semi-aned The table was rotated 360 degrees to determine the p	rotating table
 highest radiation. b. For above 1GHz, the EUT was placed on the top of a 1.5 meters above the ground at a 3 meter fully-aned The table was rotated 360 degrees to determine the phighest radiation. c. The EUT was set 3 meters away from the interfere antenna, which was mounted on the top of a variable-h tower. d. The antenna height is varied from one meter to four the ground to determine the maximum value of the Both horizontal and vertical polarizations of the antern make the measurement. e. For each suspected emission, the EUT was arrange case and then the antenna was tuned to heights from meters and the rotatable table was turned from 0 dedegrees to find the maximum Hold Mode. g. Place a marker at the end of the restricted band of transmit frequency to show compliance. Also remissions in the restricted bands. Save the spectrum Repeat for each power and modulation for lowest channel h. Test the EUT in the lowest channel , the Highest channel h. Test the EUT in the lowest channel , the Highest channel j. Repeat above procedures until all frequencies m complete. 	choic camber. position of the a rotating table choic camber. position of the ence-receiving height antenna meters above field strength. na are set to ed to its worst n 1 meter to 4 egrees to 360 Function and closest to the measure any analyzer plot. and highest hel X, Y, Z axis xis positioning
Exploratory Test Mode: Non-hopping transmitting mode with all kind of modulation	and all kind of
data type	
Transmitting mode, Charge + Transmitting mode.	
Final Test Mode: Through Pre-scan, find the DH5 of data type and GFSK	modulation is
the worst case.	
Directory the ELIT of Transmitting mode and Charge - Trans	
Pretest the EUT at Transmitting mode and Charge + Trans	se
found the Charge + Transmitting mode which it is worse ca	
found the Charge + Transmitting mode which it is worse ca Only the worst case is recorded in the report.	
found the Charge + Transmitting mode which it is worse ca	



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Test plot as follows	S:					
Worse case mode:	GFSK (DH5)	Test channel:	Lowest	Remark:	Peak	Vertical



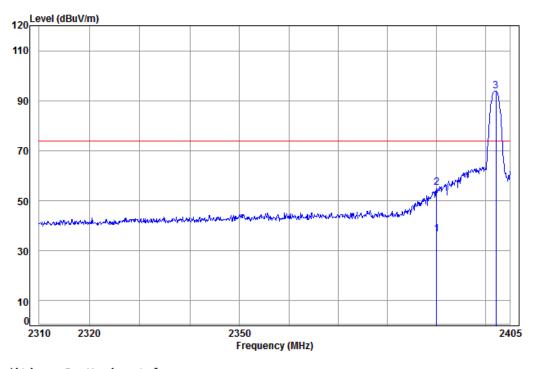
1012	u D	GD/ 11	ab	abav	abav/m	abav/m	ub l	
1 av 2390.000	5.34	29.08	38.14	40.99	37.27	54.00	-16.73 Average	
2 2390.000	5.34	29.08	38.14	59.45	55.73	74.00	-18.27 Peak	
3 pp 2401.900	5.35	29.11	38.15	99.03	95.34	74.00	21.34 Peak	

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Worse case mode: GFSK	(DH5) Test channel:	Lowest	Remark:	Peak	Horizontal
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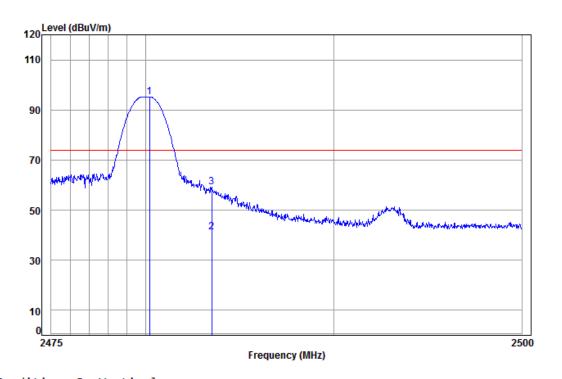
Condit	ion: 3m	Horizo	ntal						
Job No	: : 6854	4CR							
Mode:	: 240	2 Band	edge						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 av	2390.000	5.34	29.08	38.14	40.25	36.53	54.00	-17.47	Average
2	2390.000	5.34	29.08	38.14	58.88	55.16	74.00	-18.84	Peak
3 рр	2402.191	5.35	29.11	38.15	97.53	93.84	74.00	19.84	Peak

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Worse case mode: GFSK (DH5) Test chann	nel: Highest R	Remark: Peak	Vertical
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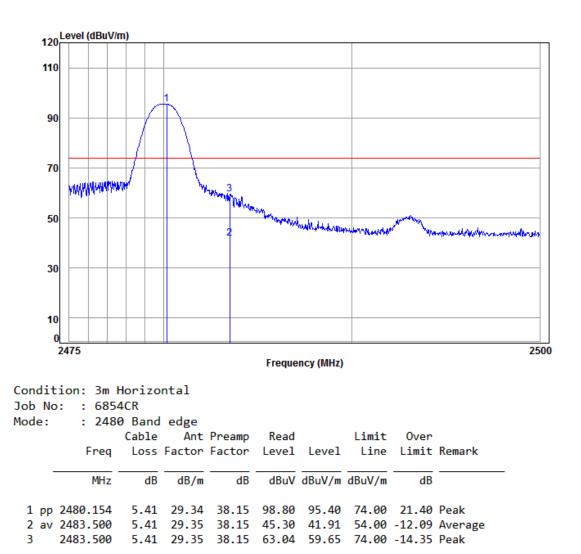
Condi	tion: 3m	Vertic	al						
Job No	o: : 685	4CR							
Mode:	: 248	0 Band	edge						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2480.204	5.41	29.34	38.15	98.66	95.26	74.00	21.26	Peak
2 av	2483.500	5.41	29.35	38.15	44.50	41.11	54.00	-12.89	Average
3	2483.500	5.41	29.35	38.15	62.73	59.34	74.00	-14.66	Peak

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Worse case mode:	GFSK(DH5)	Test channel:	Highest	Remark:	Peak	Horizontal
			3			



Note:

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

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

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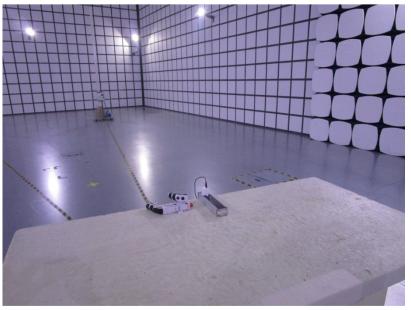
7 Photographs - EUT Test Setup

Test Model No.: LBC-007

7.1 Conducted Emission



7.2 Radiated Emission

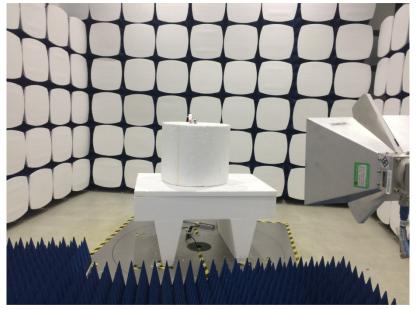


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7.3 Radiated Spurious Emission



8 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1608006854CR.