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Report No.: SZEM150900579802 Page: 1 of 52

FCC REPORT

Application No:	SZEM1509005798HR
Applicant:	WUXI IDATA TECHNOLOGY COMPANY LTD.
Manufacturer:	WUXI IDATA TECHNOLOGY COMPANY LTD.
Factory:	WUXI IDATA TECHNOLOGY COMPANY LTD.
Product Name:	New Mobile Computer
Model No.(EUT):	iData 50
Trade Mark:	iData
FCC ID:	2ADE3IDATA50
Standards:	47 CFR Part 15, Subpart C (2014)
Date of Receipt:	2015-09-18
Date of Test:	2015-09-26 to 2015-10-12
Date of Issue:	2015-11-05
Test Result:	PASS *

* In the configuration tested, the EUT detailed in this report 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.



Report No.: SZEM150900579802 Page: 2 of 52

2 Version

Revision Record						
Version Chapter Date Modifier Remark						
01		2015-11-05		Original		

Authorized for issue by:		
	Eric Fu	2015-10-12
Tested By	(Eric Fu) /Project Engineer	Date
Prepared By	Heety Wen. (Hedy Wen)/Clerk	2015-11-05
	John Hong	
		2015-11-05
Checked By	(Jim Huang) /Reviewer	Date

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Report No.: SZEM150900579802 Page: 3 of 52

3 Test Summary

Test Item	est Item Test Requirement		Result
Antenna Requirement	Antenna Requirement 47 CFR Part 15, Subpart C Section 15.203/15.247 (c)		PASS
AC Power Line Conducted Emission	Conducted 47 CFR Part 15, Subpart C Section 15,207		PASS
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	ANSI C63.10 2009	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	ANSI C63.10 2009	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 2009	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2009	PASS
RF Conducted Spurious Emissions	•		PASS
Radiated Spurious Emissions			PASS
Restricted bands around fundamental frequency (Radiated Emission) 47 CFR Part 15, Subpart C Section 15.205/15.209		ANSI C63.10 2009	PASS

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Report No.: SZEM150900579802 Page: 4 of 52

4 Contents

1	CC	OVER PAGE	1
2	VE	RSION	2
3	TF	ST SUMMARY	3
4		ONTENTS	-
-		-	
5	GE	ENERAL INFORMATION	
	5.1	CLIENT INFORMATION	
	5.2		
	5.3 5.4	TEST ENVIRONMENT DESCRIPTION OF SUPPORT UNITS	
	5.4 5.5	Test Location	
	5.6	Test Facility	
	5.7	DEVIATION FROM STANDARDS	
	5.8	ABNORMALITIES FROM STANDARD CONDITIONS	
	5.9	OTHER INFORMATION REQUESTED BY THE CUSTOMER	
	5.10	EQUIPMENT LIST	
6	TE	ST RESULTS AND MEASUREMENT DATA	12
	6.1	ANTENNA REQUIREMENT	12
	6.2	CONDUCTED EMISSIONS	
	6.3	CONDUCTED PEAK OUTPUT POWER	
	6.4	6DB OCCUPY BANDWIDTH.	
	6.5 6.6	Power Spectral Density Band-edge for RF Conducted Emissions	
	6.7	Spurious RF Conducted Emissions	
	6.8	RADIATED SPURIOUS EMISSION	
	6.8	-1	
	6.9	RESTRICTED BANDS AROUND FUNDAMENTAL FREQUENCY	45
7	PH	IOTOGRAPHS - EUT TEST SETUP	51
	7.1	CONDUCTED EMISSION	51
	7.2	RADIATED EMISSION	
	7.3	RADIATED SPURIOUS EMISSION	52



Report No.: SZEM150900579802 Page: 5 of 52

5 General Information

5.1 Client Information

Applicant:	WUXI IDATA TECHNOLOGY COMPANY LTD.
Address of Applicant:	Floor 11, Building B1, Wuxi (Binhu) National Sensing Information Center, No.999 Gaolang East Road, Wuxi City, P.R.C.
Manufacturer:	WUXI IDATA TECHNOLOGY COMPANY LTD.
Address of Manufacturer:	Floor 11, Building B1, Wuxi (Binhu) National Sensing Information Center, No.999 Gaolang East Road, Wuxi City, P.R.C.
Factory:	WUXI IDATA TECHNOLOGY COMPANY LTD.
Address of Factory:	Floor 11, Building B1, Wuxi (Binhu) National Sensing Information Center, No.999 Gaolang East Road, Wuxi City, P.R.C.

5.2 General Description of EUT

Product Name:	New Mobile Computer
Model No.:	iData 50
Trade Mark:	iData
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	BT 4.0 dual mode
	This test report is for BLE mode.
Modulation Type:	GFSK
Number of Channel:	40
Sample Type:	Portable production
Antenna Type:	Monopole
Antenna Gain:	2dBi
Battery:	Lithium-ion battery:3.7V 3300mAh(charge by USB)
EUT Power Supply or Adapter:	MODEL: FJ-SW1260502000UU INPUT: AC 100-240V 50/60Hz 0.4A MAX OUTPUT: DC 5.0V 2000mA

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Report No.: SZEM150900579802 Page: 6 of 52

Operation I	Operation Frequency each of channel						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

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 (CH0)	2402MHz
The middle channel (CH19)	2440MHz
The highest channel (CH39)	2480MHz

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Report No.: SZEM150900579802 Page: 7 of 52

5.3 Test Environment

Operating Environment:		
Temperature:	25.0 °C	
Humidity:	53 % RH	
Atmospheric Pressure:	1010mbar	

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 E&E Lab,

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.



Report No.: SZEM150900579802 Page: 8 of 52

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)

The 3m Semi-anechoic chambers and the 10m Semi-anechoic chambers 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-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.



Report No.: SZEM150900579802 Page: 9 of 52

5.10Equipment List

	Conducted Emission								
Item	tem Test Equipment Manufacture		Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)			
1	Shielding Room	ZhongYu Electron	GB-88	SEL0042	2015-05-13	2016-05-13			
2	LISN	Rohde & Schwarz	ENV216	SEL0152	2015-10-09	2016-10-09			
3	LISN	ETS-LINDGREN	3816/2	SEL0021	2015-05-13	2016-05-13			
4	8 Line ISN	Fischer Custom Communications Inc.	FCC-TLIS N-T8-02	SEL0162	2015-08-30	2016-08-30			
5	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLIS N-T4-02	SEL0163	2015-08-30	2016-08-30			
6	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLIS N-T2-02	SEL0164	2015-08-30	2016-08-30			
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	2015-05-13	2016-05-13			
8	Coaxial Cable	SGS	N/A	SEL0025	2015-05-13	2016-05-13			
9	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2015-10-09	2016-10-09			
10	Humidity/ Temperature Indicator	Shanhai Qixiang	ZJ1-2B	SEL0103	2015-10-24	2016-10-24			
11	Barometer	Chang Chun	DYM3	SEL0088	2015-05-13	2016-05-13			



Report No.: SZEM150900579802 Page: 10 of 52

	RE in Chamber					
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2015-05-13	2016-05-13
2	EMI Test Receiver	Agilent Technologies	N9038A	SEL0312	2015-09-16	2016-09-16
3	EMI Test software	AUDIX	E3	SEL0050	N/A	N/A
4	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2014-11-15	2017-11-15
5	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2015-10-17	2016-10-17
6	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	2014-11-24	2017-11-24
7	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2015-05-13	2016-05-13
8	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2015-10-17	2016-10-17
9	Coaxial cable	SGS	N/A	SEL0027	2015-05-13	2016-05-13
10	Coaxial cable	SGS	N/A	SEL0189	2015-05-13	2016-05-13
11	Coaxial cable	SGS	N/A	SEL0121	2015-05-13	2016-05-13
12	Coaxial cable	SGS	N/A	SEL0178	2015-05-13	2016-05-13
13	Band filter	Amindeon	82346	SEL0094	2015-05-13	2016-05-13
14	Barometer	Chang Chun	DYM3	SEL0088	2015-05-13	2016-05-13
15	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2015-10-09	2016-10-09
16	Humidity/ Temperature Indicator	Shanhai Qixiang	ZJ1-2B	SEL0103	2015-10-24	2016-10-24
17	Signal Generator (10M-27GHz)	Rohde & Schwarz	SMR27	SEL0067	2015-05-13	2016-05-13
18	Loop Antenna	Beijing Daze	ZN30401	SEL0203	2015-05-13	2016-05-13



Report No.: SZEM150900579802 Page: 11 of 52

	RF connected test					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2015-10-09	2016-10-09
2	Humidity/ Temperature Indicator	HYGRO	ZJ1-2B	SEL0033	2015-10-24	2016-10-24
3	Spectrum Analyzer	Rohde & Schwarz	FSP	SEL0154	2015-10-17	2016-10-17
4	Coaxial cable	SGS	N/A	SEL0178	2015-05-13	2016-05-13
5	Coaxial cable	SGS	N/A	SEL0179	2015-05-13	2016-05-13
6	Barometer	ChangChun	DYM3	SEL0088	2015-05-13	2016-05-13
7	Signal Generator	Rohde & Schwarz	SML03	SEL0068	2015-04-25	2016-04-25
8	POWER METER	R & S	NRVS	SEL0144	2015-10-09	2016-10-09
9	Attenuator	Beijin feihang taida	TST-2-6dB	SEL0205	2015-04-25	2016-04-25





Report No.: SZEM150900579802 Page: 12 of 52

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 2dBi.



Report No.: SZEM150900579802 Page: 13 of 52

6.2 Conducted Emis	510115		
Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2009		
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 disturbance voltage test was conducted in a shielded room. The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50µH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to 		
Test Setup:	Shielding Room	AE USN2 + AC Mat Ground Reference Plane	Test Receiver

6.2 Conducted Emissions



Report No.: SZEM150900579802 Page: 14 of 52

Test Mode:	Transmitting with GFSK modulation. Transmitting mode.
Instruments Used:	Refer to section 5.10 for details.
Test Results:	Pass



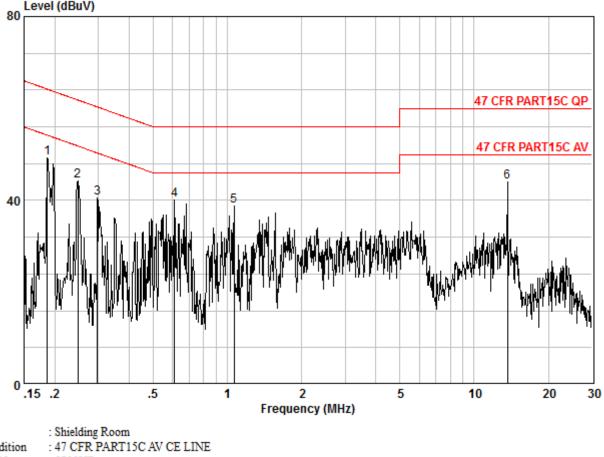
Report No.: SZEM150900579802 Page: 15 of 52

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:



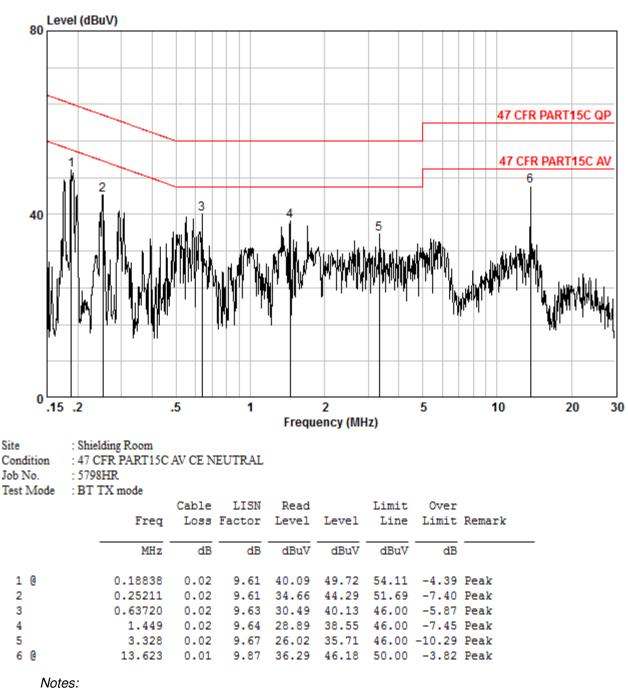
Site : Shielding Room Condition : 47 CFR PART15C AV CE LIN Job No. : 5798HR Test Mode : BT TX mode

1030 101000	. DI IM MOGO							
			LISN					
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
10	0.18639	0.02	9.60	39.61	49.23	54.20	-4.96	Peak
2	0.24814	0.02	9.60	34.62	44.23	51.82	-7.59	Peak
3	0.29711	0.01	9.59	30.86	40.46	50.32	-9.86	Peak
4	0.61075	0.02	9.61	30.45	40.07	46.00	-5.93	Peak
5	1.065	0.02	9.62	29.14	38.78	46.00	-7.22	Peak
6	13.623	0.01	9.75	34.19	43.95	50.00	-6.05	Peak



Report No.: SZEM150900579802 Page: 16 of 52

Neutral line:



1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.



Report No.: SZEM150900579802 Page: 17 of 52

6.3 Conducted Peak Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(1)	
Test Method:	ANSI C63.10 2009	
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:	30dBm	
Test Mode:	Transmitting with GFSK modulation.	
Instruments Used:	Refer to section 5.10 for details.	
Test Results:	Pass	

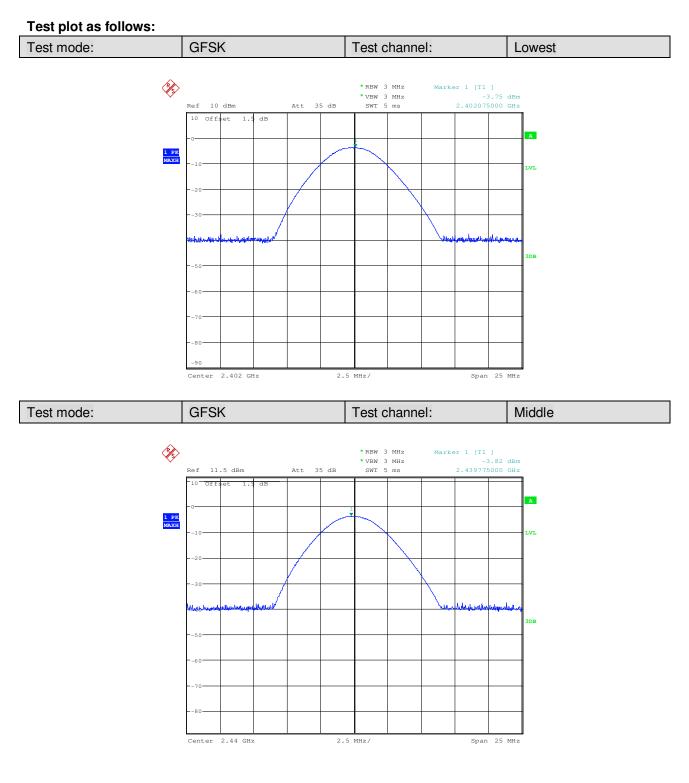
Measurement Data

	GFSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result	
Lowest	-3.75	30.00	Pass	
Middle	-3.82	30.00	Pass	
Highest	-3.95	30.00	Pass	

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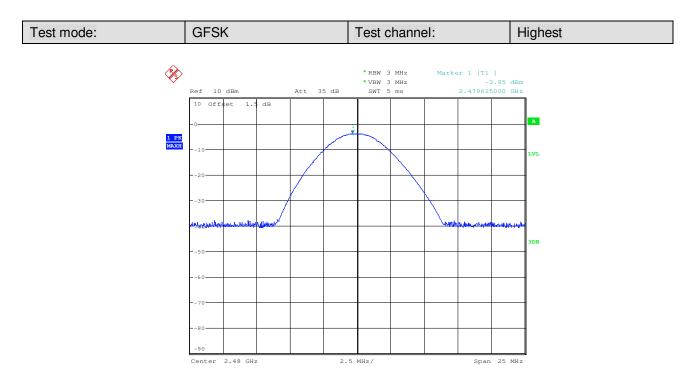


Report No.: SZEM150900579802 Page: 18 of 52





Report No.: SZEM150900579802 Page: 19 of 52





Report No.: SZEM150900579802 Page: 20 of 52

Test Requirement: 47 CFR Part 15C Section 15.247 (a)(2) Test Method: ANSI C63.10 2009 Test Setup: Spectrum Analyzer E.U.T 6 Non-Conducted Table **Ground Reference Plane** Limit: ≥ 500 kHz Transmitting with GFSK modulation. Test Mode: Instruments Used: Refer to section 5.10 for details. **Test Results:** Pass

6.4 6dB Occupy Bandwidth

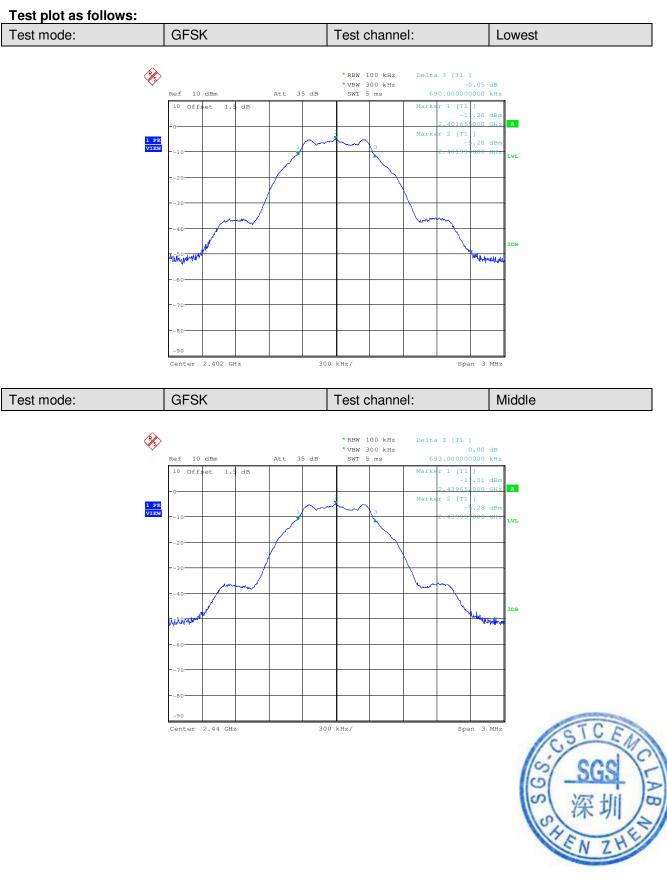
Measurement Data

GFSK mode				
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result	
Lowest	0.690	≥500	Pass	
Middle	0.693	≥500	Pass	
Highest	0.699	≥500	Pass	

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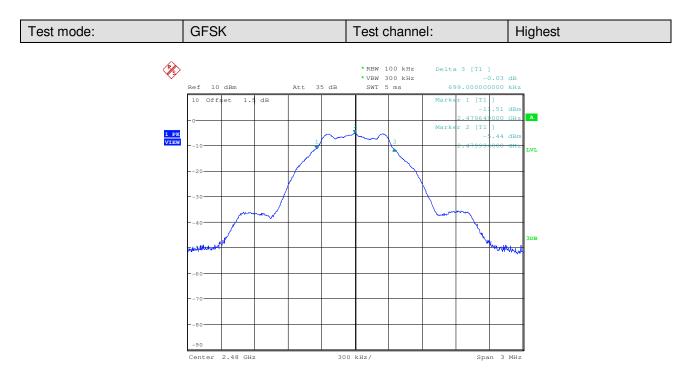


Report No.: SZEM150900579802 Page: 21 of 52





Report No.: SZEM150900579802 Page: 22 of 52





Report No.: SZEM150900579802 Page: 23 of 52

47 CFR Part 15C Section 15.247 (e) **Test Requirement:** Test Method: ANSI C63.10 2009 Test Setup: Spectrum Analyzer E.U.T Non-Conducted Table **Ground Reference Plane** Limit: ≤8.00dBm/3kHz Test Mode: Transmitting with GFSK modulation. Instruments Used: Refer to section 5.10 for details. **Test Results:** Pass

6.5 Power Spectral Density

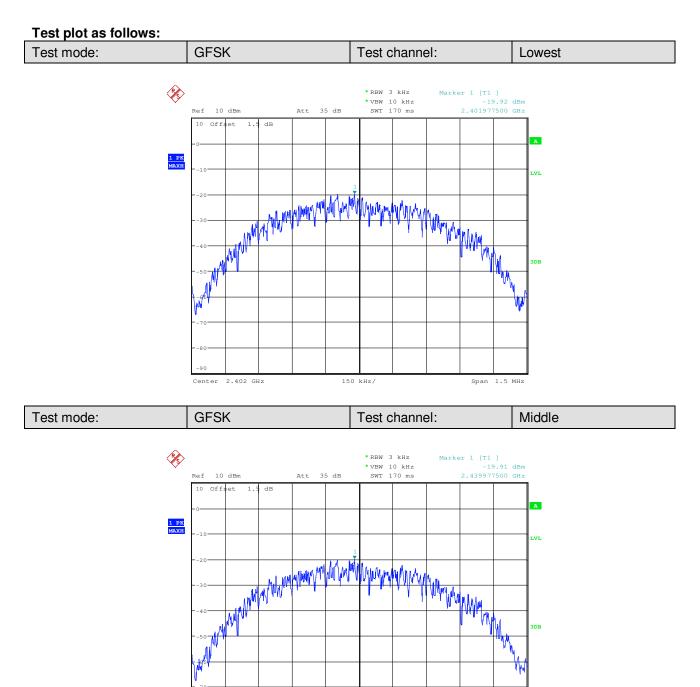
Measurement Data

	GFSK mode		
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest	-19.92	≤8.00	Pass
Middle	-19.91	≤8.00	Pass
Highest	-20.11	≤8.00	Pass

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Report No.: SZEM150900579802 Page: 24 of 52



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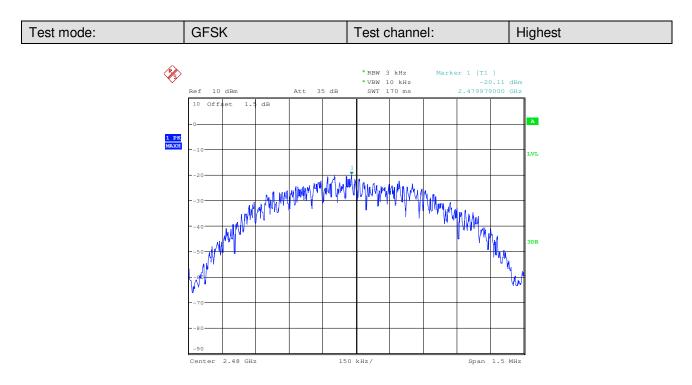
150 kHz/

Span 1.5 MHz

Center 2.44 GHz



Report No.: SZEM150900579802 Page: 25 of 52





Report No.: SZEM150900579802 Page: 26 of 52

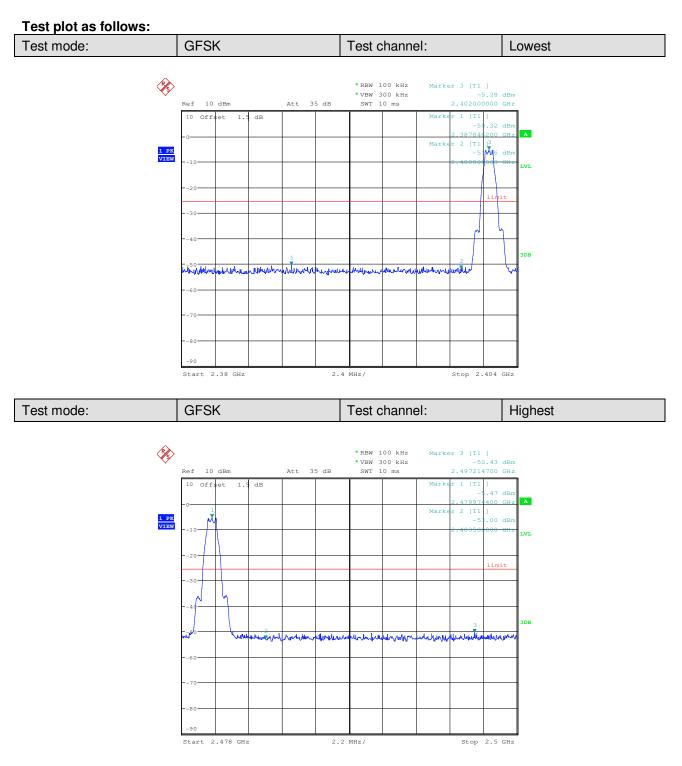
6.6 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)	
Test Method:	ANSI C63.10 2009	
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.	
Test Mode:	Transmitting with GFSK modulation.	
Instruments Used:	Refer to section 5.10 for details.	
Test Results:	Pass	

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Report No.: SZEM150900579802 Page: 27 of 52





Report No.: SZEM150900579802 Page: 28 of 52

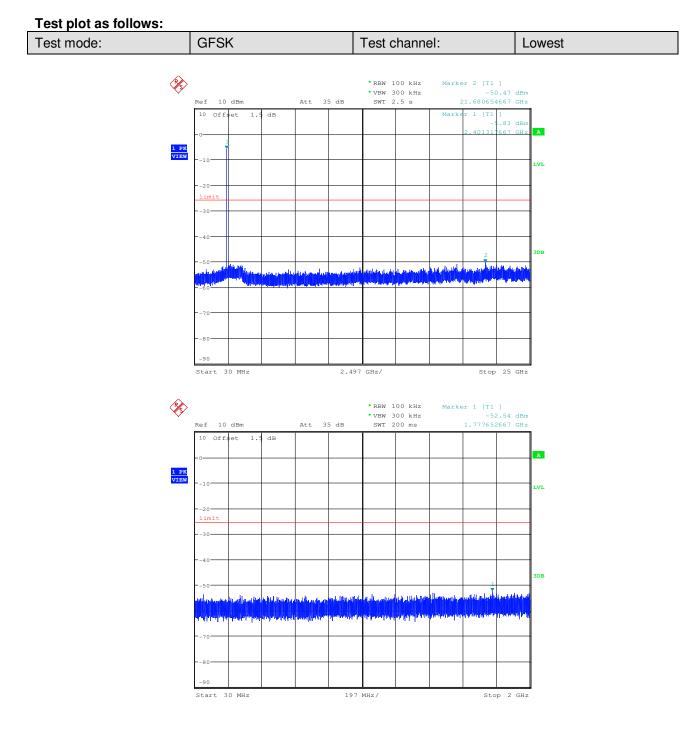
6.7 Spurious RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)	
Test Method:	ANSI C63.10 2009	
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.	
Test Mode:	Transmitting with GFSK modulation.	
Instruments Used:	Refer to section 5.10 for details.	
Test Results:	Pass	

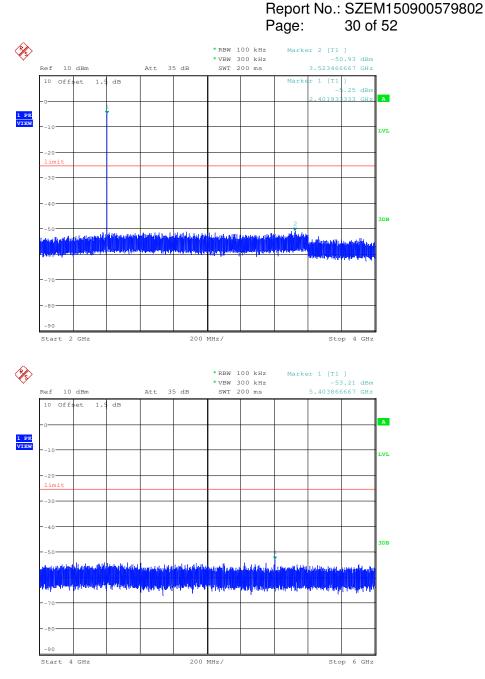
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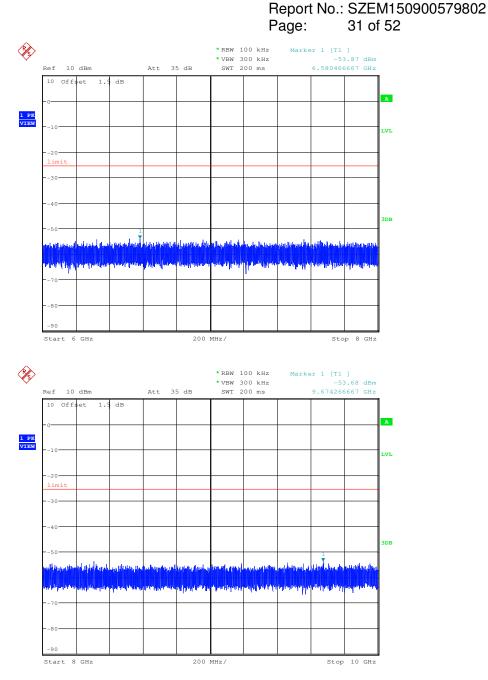
Report No.: SZEM150900579802 Page: 29 of 52







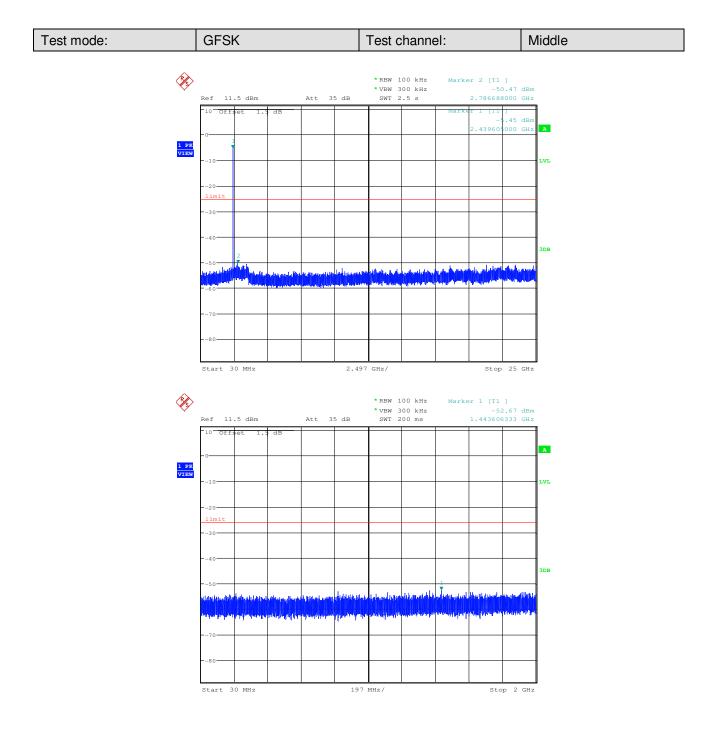




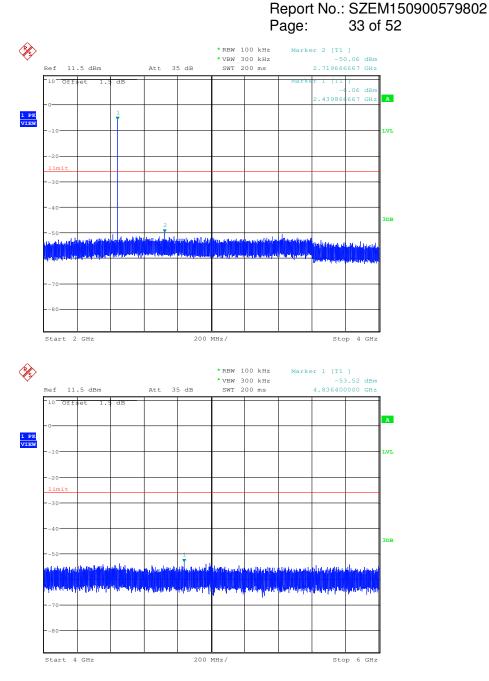




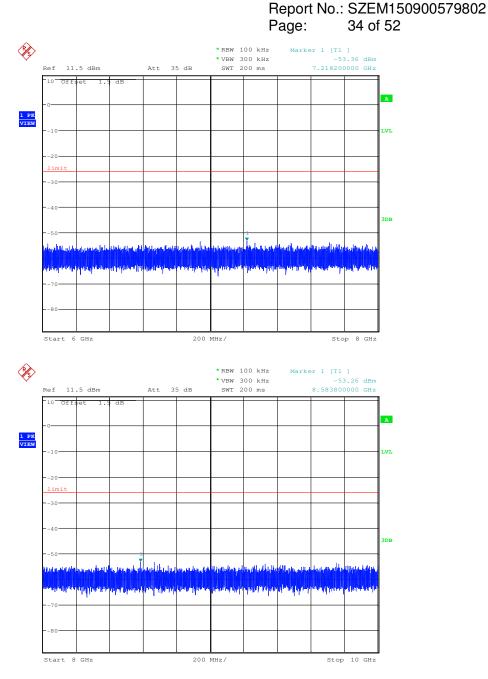
Report No.: SZEM150900579802 Page: 32 of 52





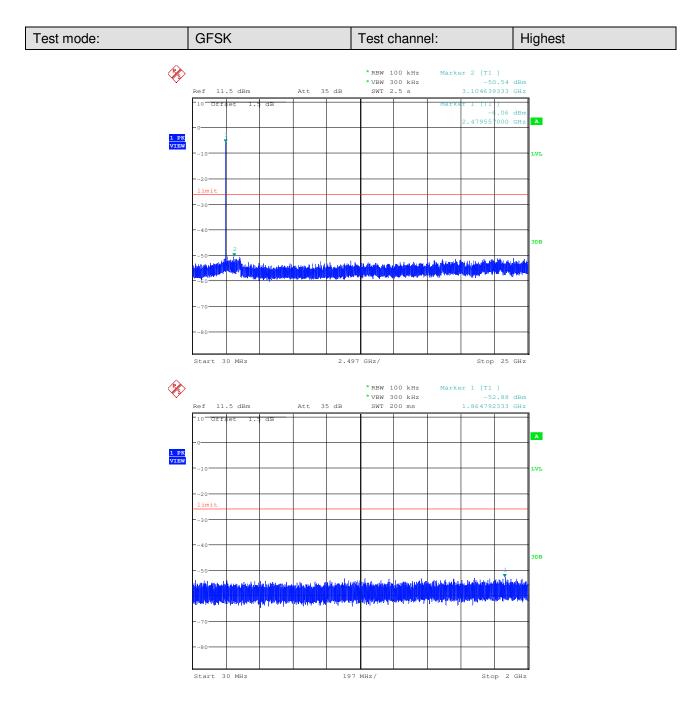




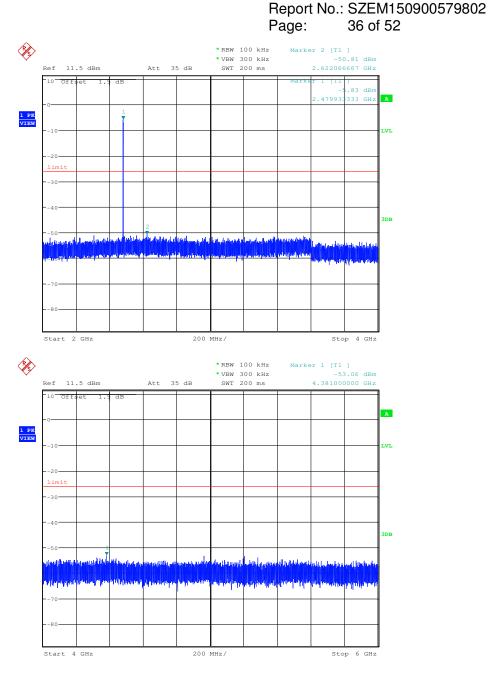




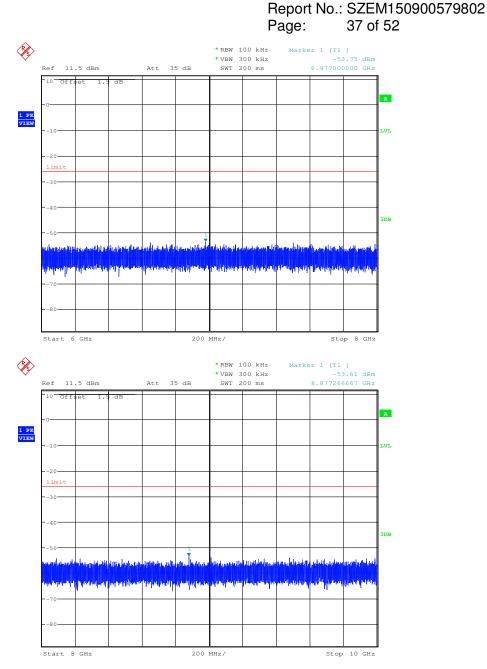
Report No.: SZEM150900579802 Page: 35 of 52











Remark:

Pretest 9kHz to 25GHz, find the highest point when testing, so only the worst data were shown in the test report. Per FCC Part 15.33 (a) and 15.31 (o) ,The amplitude of spurious emissions from intentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.



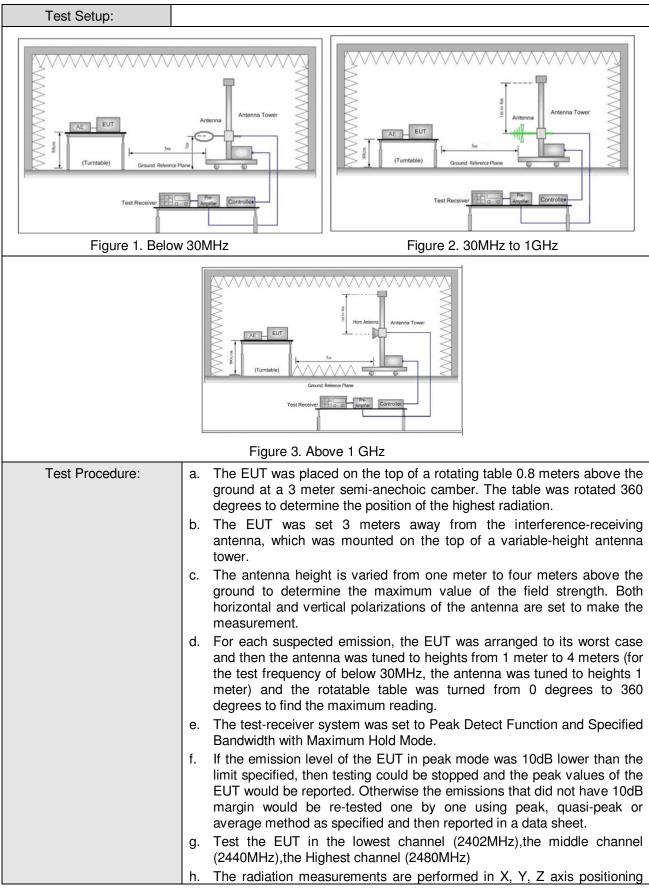
Report No.: SZEM150900579802 Page: 38 of 52

6.8 Radiated Spurious Emission

6.8.1 Spurious Emiss	ions									
Test Requirement:	47 CFR Part 15C Secti	on 1	5.209 and 15	.205						
Test Method:	ANSI C63.10 2009	ANSI C63.10 2009								
Test Site:	Measurement Distance	Measurement Distance: 3m (Semi-Anechoic Chamber)								
Receiver Setup:	Frequency		Detector	RBW	'	VBW	Remark	1		
	0.009MHz-0.090MH	z	Peak	10kHz	z	30kHz	Peak			
	0.009MHz-0.090MH	z	Average	age 10kHz		30kHz	Average			
	0.090MHz-0.110MH	z	Quasi-peak	10kHz	z	30kHz	Quasi-peak			
	0.110MHz-0.490MH	z	Peak	10kHz	z	30kHz	Peak			
	0.110MHz-0.490MH	z	Average	10kHz	z	30kHz	Average			
	0.490MHz -30MHz		Quasi-peak	10kHz	z	30kHz	Quasi-peak			
	30MHz-1GHz		Quasi-peak	100 kH	lz	300kHz	Quasi-peak			
	Above 1GHz			1MHz	2	3MHz	Peak			
	Above IGH2		Peak	1MHz	2	10Hz	Average			
Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)	F	Remark	Measureme distance (r			
	0.009MHz-0.490MHz	24	400/F(kHz)	-			300			
	0.490MHz-1.705MHz	24	1000/F(kHz)	-		-	30			
	1.705MHz-30MHz		30	-		-	30			
	30MHz-88MHz		100	40.0	Qı	uasi-peak	3			
	88MHz-216MHz		150	43.5	Qı	uasi-peak	3			
	216MHz-960MHz		200	46.0	Qı	uasi-peak	3			
	960MHz-1GHz		500	54.0	Qı	uasi-peak	3			
	Above 1GHz		500	54.0	A	Average	3			
	Note: 15.35(b), frequency emissions is limit applicable to the e peak emission level rac	20d quip	IB above the poment under t	maximum est. This p	peri	mitted ave	erage emissio	n		



Report No.: SZEM150900579802 Page: 39 of 52



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Report No.: SZEM150900579802 Page: 40 of 52

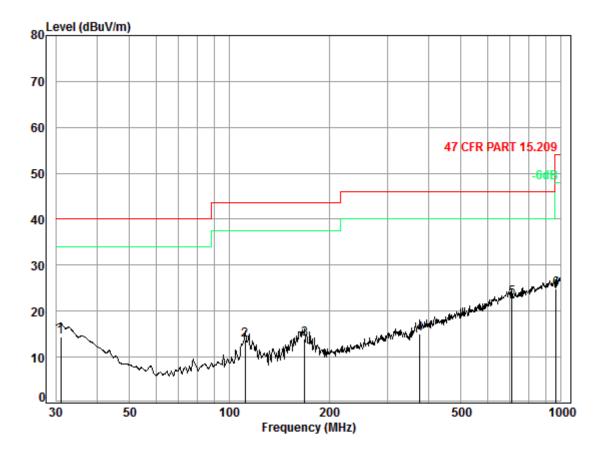
	for Transmitting mode, and found the X axis positioning which it is the worst case.i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with GFSK modulation. Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Transmitting mode. 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 5.10 for details.
Test Results:	Pass

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Report No.: SZEM150900579802 Page: 41 of 52

Radiated Emission below 1GHz				
30MHz~1GHz (QP)				
Test mode:	Transmitting mode	Vertical		



Condition: 47 CFR PART 15.209 3m 3142C Vertical Job No. : 5798HR Test Mode: BT TX mode

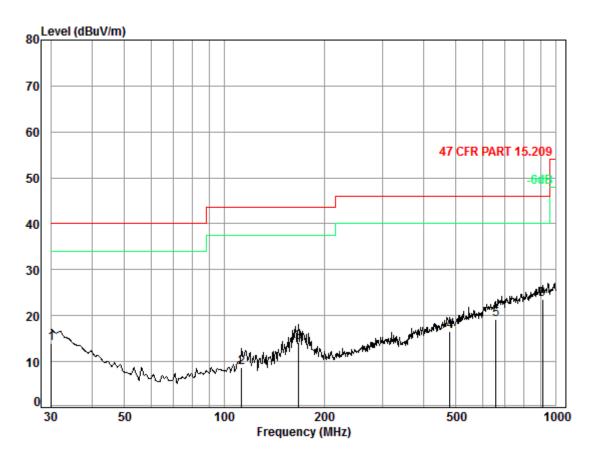
est	mode: DI		ue					
		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.96	0.60	18.36	27.35	22.82	14.43	40.00	-25.57
2	111.35	1.23	8.62	27.13	30.94	13.66	43.50	-29.84
3	169.01	1.35	9.52	26.82	29.99	14.04	43.50	-29.46
4	375.94	2.13	15.92	26.97	23.94	15.02	46.00	-30.98
5	711.67	2.94	21.65	27.40	25.63	22.82	46.00	-23.18
6	968.93	3.67	23.58	26.44	24.04	24.85	54.00	-29.15





Report No.: SZEM150900579802 Page: 42 of 52

Test mode:	Transmitting mode	Horizontal
	i a lei li a lei li a lei	



Condition: 47 CFR PART 15.209 3m 3142C Horizontal Job No. : 5798HR Test Mode: BT TX mode

	nouc. Di	177 110						
		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.00	0.60	19.00	27.36	21.76	14.00	40.00	-26.00
2	112.52	1.23	8.54	27.11	26.13	8.79	43.50	-34.71
3	167.82	1.35	9.54	26.82	29.99	14.06	43.50	-29.44
4	478.85	2.52	17.68	27.60	23.95	16.55	46.00	-29.45
5	661.15	2.83	20.81	27.46	22.98	19.16	46.00	-26.84
6	912.86	3.61	23.30	26.71	23.42	23.62	46.00	-22.38



Report No.: SZEM150900579802 Page: 43 of 52

Transmitte	Transmitter Emission above 1GHz								
Test mode:	G	FSK	Test	channel:	Lowest Remar		rk: Peak		
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
3780.000	-31.20	33.00	0.00	39.20	41.00	74.00	-33.00	Vertical	
4804.000	-30.40	34.30	0.00	38.80	42.70	74.00	-31.30	Vertical	
5805.000	-29.20	34.30	0.00	39.30	44.40	74.00	-29.60	Vertical	
7206.000	-27.90	35.80	0.00	36.60	44.50	74.00	-29.50	Vertical	
9608.000	-25.10	37.20	0.00	34.70	46.80	74.00	-27.20	Vertical	
12000.000	-23.10	37.80	0.00	33.60	48.30	74.00	-25.70	Vertical	
3600.000	-31.20	32.40	0.00	40.90	42.10	74.00	-31.90	Horizontal	
4804.000	-30.40	34.30	0.00	39.40	43.30	74.00	-30.70	Horizontal	
5865.000	-29.40	34.50	0.00	38.40	43.50	74.00	-30.50	Horizontal	
7206.000	-27.90	35.80	0.00	36.80	44.70	74.00	-29.30	Horizontal	
9608.000	-25.10	37.20	0.00	35.30	47.40	74.00	-26.60	Horizontal	
12015.000	-23.10	37.80	0.00	34.70	49.40	74.00	-24.60	Horizontal	

Test mode:		GFSK	Tes	t channel:	Middle	Rem	ark:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3840.000	-31.20	33.30	0.00	38.50	40.60	74.00	-33.40	Vertical
4880.000	-30.40	34.50	0.00	39.20	43.30	74.00	-30.70	Vertical
6015.000	-28.90	34.90	0.00	38.40	44.40	74.00	-29.60	Vertical
7320.000	-27.90	35.70	0.00	38.00	45.80	74.00	-28.20	Vertical
9760.000	-24.90	37.30	0.00	34.30	46.70	74.00	-27.30	Vertical
12360.000	-22.70	37.90	0.00	33.60	48.80	74.00	-25.20	Vertical
3660.000	-31.20	32.60	0.00	41.40	42.80	74.00	-31.20	Horizontal
4880.000	-30.40	34.50	0.00	38.90	43.00	74.00	-31.00	Horizontal
5850.000	-29.40	34.40	0.00	39.30	44.30	74.00	-29.70	Horizontal
7320.000	-27.90	35.70	0.00	37.40	45.20	74.00	-28.80	Horizontal
9760.000	-24.90	37.30	0.00	34.10	46.50	74.00	-27.50	Horizontal
12645.000	-23.10	38.10	0.00	35.20	50.20	74.00	-23.80	Horizontal



Report No.: SZEM150900579802 Page: 44 of 52

Test mode:		GFSK	Tes	t channel:	Highest	Rem	ark:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3960.000	-31.00	33.10	0.00	39.10	41.20	74.00	-32.80	Vertical
4960.000	-30.30	34.60	0.00	38.90	43.20	74.00	-30.80	Vertical
6000.000	-28.80	34.90	0.00	38.80	44.90	74.00	-29.10	Vertical
7440.000	-27.90	35.80	0.00	36.50	44.40	74.00	-29.60	Vertical
9920.000	-23.90	37.30	0.00	34.10	47.50	74.00	-26.50	Vertical
12285.000	-22.50	37.90	0.00	34.60	50.00	74.00	-24.00	Vertical
3975.000	-31.00	33.20	0.00	39.60	41.80	74.00	-32.20	Horizontal
4960.000	-30.30	34.60	0.00	39.20	43.50	74.00	-30.50	Horizontal
6150.000	-29.40	35.00	0.00	38.90	44.50	74.00	-29.50	Horizontal
7440.000	-27.90	35.80	0.00	36.70	44.60	74.00	-29.40	Horizontal
9920.000	-23.90	37.30	0.00	34.40	47.80	74.00	-26.20	Horizontal
12465.000	-23.10	38.00	0.00	34.20	49.10	74.00	-24.90	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 peak measurements were shown in the report.



Report No.: SZEM150900579802 Page: 45 of 52

6.9 Restricted bands around fundamental frequency

6.9 Ke	.9 Restricted bands around fundamental frequency								
Tes	t Requirement:	47 CFR Part 15C Section 15.209 and 15.205							
Tes	t Method:	ANSI C63.10 2009							
Tes	st Site:	Measurement Distance: 3m	(Semi-Anechoic Chambe	r)					
Lim	it:	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					
Tes	st Setup:								
	AE EUT (Turntable) Ground Reference Plan Test Receiver Figure 1. 30MHz Procedure:	 a. The EUT was place the ground at a 3 rotated 360 degree radiation. b. The EUT was set antenna, which was tower. c. The antenna heigh the ground to deter Both horizontal and make the measurer d. For each suspecte 	d emission, the EUT was	e 1 GHz table 0.8 meters above amber. The table was osition of the highest e interference-receiving variable-height antenna er to four meters above e of the field strength. the antenna are set to s arranged to its worst					
	ant is issued by the Comm	 d. 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. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel 							



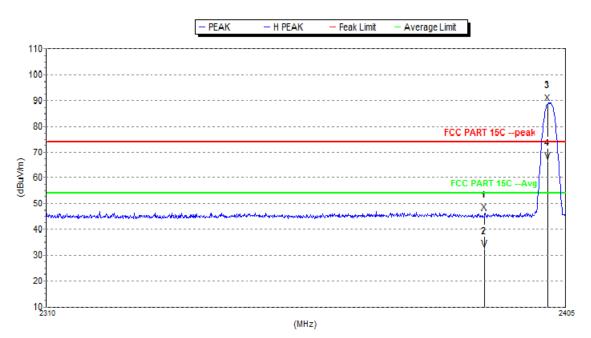
Report No.: SZEM150900579802 Page: 46 of 52

	 g. Test the EUT in the lowest channel , the Highest channel h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. i. Repeat above procedures until all frequencies measured was complete.
Test Mode:	Transmitting with GFSK modulation.
	Transmitting mode.
Instruments Used:	Refer to section 5.10 for details.
Test Results:	Pass



Report No.: SZEM150900579802 Page: 47 of 52

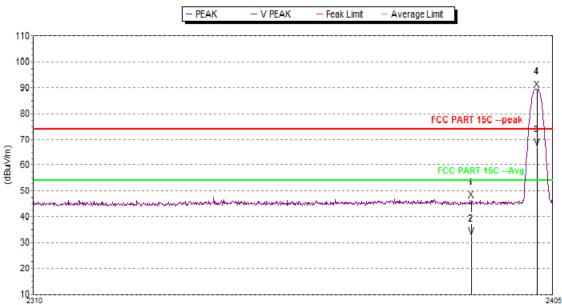
Test plot as follows:



Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1	2390	46.5	74.0	27.5	32.5	0.0	-19.3	Н
2 F	2401.770	88.9	74.0	-14.9	32.6	0.0	-19.3	Н
Avg								
1	2390	32.4	54.0	21.6	32.5	0.0	-19.3	Н
2 F	2401.770	66.4	54.0	-12.4	32.6	0.0	-19.3	Н



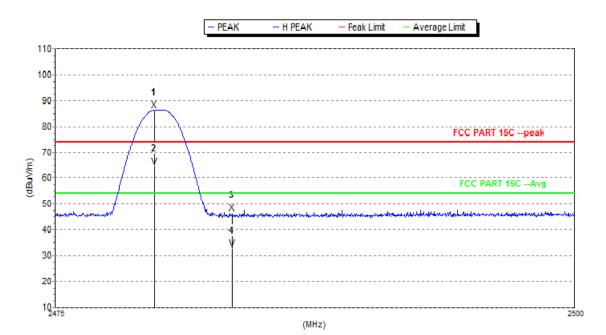
Report No.: SZEM150900579802 Page: 48 of 52



Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1	2390	46.5	74.0	27.5	32.5	0.0	-19.3	V
2 F	2402.150	89.3	74.0	-15.3	32.6	0.0	-19.3	V
Avg								
1	2390	32.5	54.0	21.5	32.5	0.0	-19.3	V
2 F	2402.150	66.7	54.0	-12.7	32.6	0.0	-19.3	V



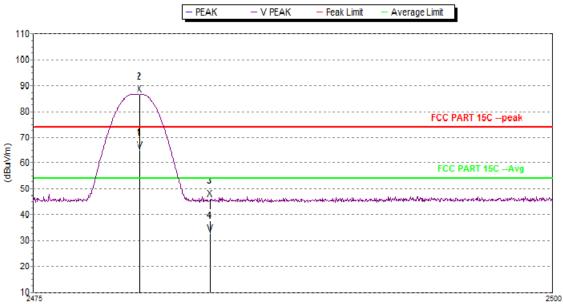
Report No.: SZEM150900579802 Page: 49 of 52



Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1 F	2479.750	86.2	74.0	-12.2	32.5	0.0	-19.1	Н
2	2483.5	46.3	74.0	27.7	32.5	0.0	-19.1	Н
Avg								
1 F	2479.750	64.4	54.0	-10.4	32.5	0.0	-19.1	Н
2	2483.5	32.8	54.0	21.2	32.5	0.0	-19.1	Н



Report No.: SZEM150900579802 Page: 50 of 52



(MHz)

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1 F	2480.150	86.6	74.0	-12.6	32.5	0.0	-19.1	V
2	2483.5	46.2	74.0	27.8	32.5	0.0	-19.1	V
Avg								
1 F	2480.150	64.7	54.0	-10.7	32.5	0.0	-19.1	V
2	2483.5	32.8	54.0	21.2	32.5	0.0	-19.1	V

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



Report No.: SZEM150900579802 Page: 51 of 52

7 Photographs - EUT Test Setup

Test model No.: iData 50

7.1 Conducted Emission



7.2 Radiated Emission







Report No.: SZEM150900579802 Page: 52 of 52

7.3 Radiated Spurious Emission

8 Photographs - EUT Constructional Details

Test model No.: iData 50

Refer to Report No. SZEM150900579801 for EUT external and internal photos.