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Report No.: SZEM180400250604 Page: 1 of 53

FCC REPORT

Manufacturer: Factory:	Hisense Communications Co., Ltd. Hisense Communications Co., Ltd.
Product Name:	Mobile Phone
Model No.(EUT):	Hisense T17
Trade Mark: Hisense	
FCC ID: 2ADOBT17	
Standards:	47 CFR Part 15, Subpart C
Test Method	KDB 558074 D01 DTS Meas Guidance v04 ANSI C63.10 (2013)
Date of Receipt:	2018-03-19
Date of Test:	2018-03-19 to 2018-03-26
Date of Issue:	2018-04-09
Test Result:	PASS *

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

Authorized Signature:

Derele young

Derek Yang Wireless 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.

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Report No.: SZEM180400250604 Page: 2 of 53

2 Version

	Revision Record						
Version	Version Chapter Date Modifier Remark						
01		2018-04-09		Original			

Authorized for issue by:		
Tested By	Mike Mu	2018-03-26
	(Mike Hu) /Project Engineer	Date
Checked By	John Hing	2018-04-09
	(Jim Huang) /Reviewer	Date



Report No.: SZEM180400250604 Page: 3 of 53

3 Test Summary

Test Item	Test Item Test Requirement		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	nducted 47 CFR Part 15, Subpart C Section 15,207		PASS
Conducted Peak Output Power	ANSI C63.10 2013		PASS
6dB Occupied Bandwidth	-		PASS
Power Spectral Density47 CFR Part 15, Subpart C Section 15.247 (e)		ANSI C63.10 2013	PASS
Band-edge for RF Conducted Emissions			PASS
RF Conducted Spurious 47 CFR Part 15, Subpart C Section Emissions 15.247(d)		ANSI C63.10 2013	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 2013	PASS



Report No.: SZEM180400250604 Page: 4 of 53

Model No.: Hisense T17

This test report (Ref. No.: SZEM180400250604) is only valid with the original test report (Ref. No.: SZEM180100087904).

According to the declaration from the applicant, the model in this report and model in original report was identical, with only difference on the supplier of TP/LCD/Camera is as bellowing:

Main Supply

Part Name	Model Name	supplier	Remark
ТР	Y138067F2-D-X	YUYE	
Front-facing Camera	C10910	СХТССМ	
LCD	Y87397	DIGITAL	
Rear Camera	C10911	CXTCCM	

Secondary Supply

Part Name	Model Name	supplier	Remark
ТР	CCG10117-5.5	HOLITHECH	
Front-facing Camera	HEPS7543-A	HOLITHECH	
LCD	HTT055H517	HOLITHECH	
Rear Camera	HFBS7545-A	HOLITHECH	

Considering to the difference, pre-scan was performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore, in this report worse case mode of Field strength of spurious radiation on Model Hisense T17 are retested and shown the data in this report.



Report No.: SZEM180400250604 Page: 5 of 53

4 Contents

1	С	OVER PAGE	1
2	VE	ERSION	2
3		EST SUMMARY	
4		ONTENTS	
5		ENERAL INFORMATION	
	5.1	CLIENT INFORMATION	6
	5.2	GENERAL DESCRIPTION OF EUT	6
	5.3	Test Environment	
	5.4	DESCRIPTION OF SUPPORT UNITS	
	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	MEASUREMENT UNCERTAINTY (95% CONFIDENCE LEVELS, K=2)	
	5.11	Equipment List	
6	TE	EST RESULTS AND MEASUREMENT DATA	
	6.1	ANTENNA REQUIREMENT	
	6.2	CONDUCTED EMISSIONS	
	6.3	CONDUCTED PEAK OUTPUT POWER	
	6.4	6DB OCCUPY BANDWIDTH	
	6.5	POWER SPECTRAL DENSITY	
	6.6	BAND-EDGE FOR RF CONDUCTED EMISSIONS	
	6.7	Spurious RF Conducted Emissions	
	6.8	RADIATED SPURIOUS EMISSION	
		8.1 Radiated Emission below 1GHz	
	-	8.2 Transmitter Emission above 1GHz	
	6.9	RESTRICTED BANDS AROUND FUNDAMENTAL FREQUENCY	
7	Pł	HOTOGRAPHS - EUT CONSTRUCTIONAL DETAILS	53



Report No.: SZEM180400250604 Page: 6 of 53

5 General Information

5.1 Client Information

Applicant:	Hisense International Co., Ltd.		
Address of Applicant:	Floor 22, Hisense Tower, 17 Donghai Xi Road, Qingdao, 266071, China		
Manufacturer:	218 Qianwangang Road, Economic & Technological Development Zone, Qingdao, Shandong Province, P.R. China		
Address of Manufacturer:	Hisense Communications Co., Ltd.		
Factory:	218 Qianwangang Road, Economic & Technological Development Zone, Qingdao, Shandong Province, P.R. China		
Address of Factory:	218 Qianwangang Road, Economic & Technological Development Zone, Qingdao, Shandong Province, P.R. China		

5.2 General Description of EUT

Product Name:	Mobile Phone	
Model No.:	Hisense T17	
Trade Mark:	Hisense	
Operation Frequency:	2402MHz~2480MHz	
Bluetooth Version:	Bluetooth V4.0 Dual-mode	
Modulation Type:	GFSK	
Number of Channel:	40	
Sample Type:	Portable Device	
Antenna Type: PIFA		
Antenna Gain: -0.3dBi		
Power Supply DC3.8V (1 x 3.8V Rechargeable battery) 2450mAh Battery: Charge by DC 5V		
AC adaptor: Model:TPA-97050100UU Input: AC100-240V 50/60Hz 0.15A Output:DC5.0V 1A		



Report No.: SZEM180400250604 Page: 7 of 53

Operation F	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



Report No.: SZEM180400250604 Page: 8 of 53

5.3 Test Environment

Operating Environment					
Temperature:	25.0 °C				
Humidity:	50 % RH				
Atmospheric Pressure:	1010 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.

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 – Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

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.

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Report No.: SZEM180400250604 Page: 9 of 53

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.

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

No.	Item	Measurement Uncertainty	
1	Total RF power, conducted	0.75dB	
2	RF power density, conducted	2.84dB	
3	Spurious emissions, conducted	0.75dB	
		4.5dB (30MHz-1GHz)	
4	Radiated Spurious emission test	4.8dB (1GHz-25GHz)	
5	Conduct emission test	3.12 dB(9KHz- 30MHz)	
6	Temperature test	1 ℃	
7	Humidity test	3%	
8	DC and low frequency voltages	0.5%	



Report No.: SZEM180400250604 Page: 10 of 53

5.11 Equipment List

	Conducted Emission									
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Duedate (yyyy-mm-dd)				
1	Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2017/5/10	2018/5/10				
2	LISN	Rohde & Schwarz	ENV216	SEM007-01	2017/10/9	2018/10/9				
3	LISN	ETS-LINDGREN	3816/2	SEM007-02	2017/4/14	2018/4/14				
4	8 Line ISN	Fischer Custom Communications Inc.	FCC- TLISN-T8- 02	EMC0120	2017/9/28	2018/9/28				
5	4 Line ISN	Fischer Custom Communications Inc.	FCC- TLISN-T4- 02	EMC0121	2017/9/28	2018/9/28				
6	2 Line ISN	Fischer Custom Communications Inc.	FCC- TLISN-T2- 02	EMC0122	2017/9/28	2018/9/28				
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2017/4/14	2018/4/14				
8	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2017/10/9	2018/10/9				

	RF connected test										
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Duedate (yyyy-mm-dd)					
1	DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2017/10/9	2018/10/9					
2	Signal Analyzer	Rohde &Schwarz	FSV	W005-02	2018/3/13	2019/3/12					
3	Signal Generator	Rohde &Schwarz	SML03	SEM006-02	2017/4/14	2018/4/14					
4	Power Meter	Rohde &Schwarz	NRVS	SEM014-02	2017/10/9	2018/10/9					
5	Power Sensor	Agilent Technologies	U2021XA	SEM009-01	2017/10/9	2018/10/9					



Report No.: SZEM180400250604 Page: 11 of 53

	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	ETS-LINDGREN	N/A	SEM001-01	2017/5/10	2018/5/10				
2	EMI Test Receiver	Agilent Technologies	N9038A	SEM004-05	2017/10/9	2018/10/9				
3	BiConiLog Antenna (26-3000MHz)	- EIS-UNDGRENT		SEM003-01	2017/11/1	2020/11/1				
4	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEM003-11	2015/10/17	2018/10/17				
5	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEM003-12	2017/11/24	2020/11/24				
6	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2017/4/14	2018/4/14				
7	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A				
8	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2017/10/9	2018/10/9				
9	Loop Antenna	Beijing Daze	ZN30401	SEM003-09	2015/5/13	2018/5/13				

	RE in Chamber									
Item	Test Equipment	Manufacturer	ufacturer Model No. Inventory		Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)				
1	10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2017/5/10	2018/5/10				
2	EMI Test Receiver (9k-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2017/4/14	2018/4/14				
3	Trilog-Broadband Antenna(30M-1GHz)	Schwarzbeck	VULB9168	SEM003-18	2016/6/29	2019/6/29				
4	Pre-amplifier	Sonoma Instrument Co	310N	SEM005-03	2017/7/6	2018/7/6				
5	.Loop Antenna	ETS-Lindgren	6502	SEM003-08	2015/8/14	2018/8/14				



Report No.: SZEM180400250604 Page: 12 of 53

	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	2017/5/10	2018/5/10			
2	EXA Spectrum Analyzer	Agilent Technologies Inc	N9010A	SEM004-09	2017/7/19	2018/7/19			
3	BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-02	2017/11/15	2020/11/15			
4	Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2017/10/9	2018/10/9			
5	Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2015/6/14	2018/6/14			
6	Horn Antenna (18-26GHz)	ETS-Lindgren	3160	SEM003-12	2017/11/24	2020/11/24			
7	HornAntenna (26GHz-40GHz)	A.H.Systems, inc.	SAS-573	SEM003-13	2017/10/17	2020/10/16			
8	Low Noise Amplifier	Black Diamond Series	BDLNA- 0118- 352810	SEM005-05	2017/10/9	2018/10/9			
9	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A			



Report No.: SZEM180400250604 Page: 13 of 53

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.

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -0.3dBi.



Report No.: SZEM180400250604 Page: 14 of 53

Test Requirement:	47 CFR Part 15C Section 15.207					
Test Method:	ANSI C63.10: 2013					
Test Frequency Range:	150kHz to 30MHz					
		Limit (dBuV)				
	Frequency range (MHz)	Quasi-peak	Average			
Limit:	0.15-0.5	66 to 56*	56 to 46*			
Linnt.	0.5-5	56	46			
	5-30	60	50	-		
	* Decreases with the logarith	n of the frequency.		J		
Test Procedure:	 The mains terminal disturbance voltage test was conducted in a shielded room. The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50µH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. 					
Test Setup:	Transmitting with GFSK mod	AE UISN2 + AC M Ground Reference Plane	Test Receiver			
Test Mode:	Charge +Transmitting mode.	uiation.				
Instruments Used:	Refer to section 5.10 for deta	ils.				
Test Results:	Pass					
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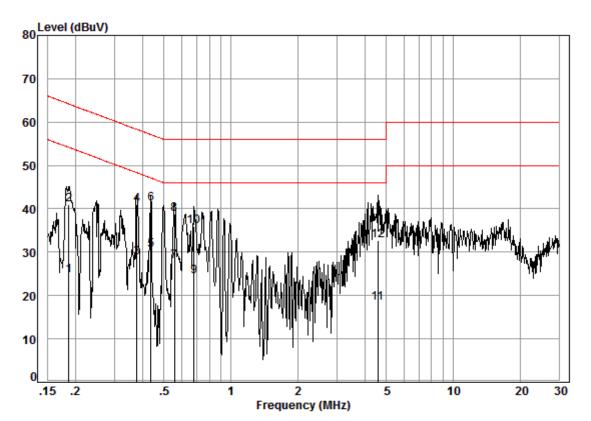
Report No.: SZEM180400250604 Page: 15 of 53

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: Line Job No. : 00879RG Test mode: b

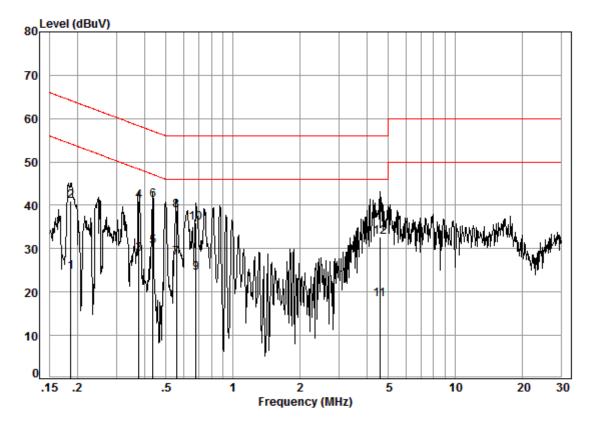
		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.19	0.02	9.51	15.13	24.66	54.20	-29.54	Average
2	0.19	0.02	9.51	31.42	40.95	64.20	-23.25	QP
3	0.38	0.01	9.49	19.31	28.81	48.34	-19.53	Average
4	0.38	0.01	9.49	31.39	40.89	58.34	-17.45	QP
5	0.44	0.01	9.49	21.03	30.53	47.11	-16.58	Average
6	0.44	0.01	9.49	31.63	41.13	57.11	-15.98	QP
7	0.56	0.01	9.51	18.38	27.90	46.00	-18.10	Average
8	0.56	0.01	9.51	29.36	38.88	56.00	-17.12	QP
9	0.68	0.02	9.50	14.85	24.37	46.00	-21.63	Average
10	0.68	0.02	9.50	26.39	35.91	56.00	-20.09	QP
11	4.57	0.01	9.55	8.80	18.36	46.00	-27.64	Average
12	4.57	0.01	9.55	23.19	32.75	56.00	-23.25	QP

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Report No.: SZEM180400250604 Page: 16 of 53

Neutral line:



Site :	Shielding	Room
Condition:	Line	
Job No. :	00879RG	
Test mode:	b	

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.19	0.02	9.51	15.13	24.66	54.20	-29.54	Average
2	0.19	0.02	9.51	31.42	40.95	64.20	-23.25	QP
3	0.38	0.01	9.49	19.31	28.81	48.34	-19.53	Average
4	0.38	0.01	9.49	31.39	40.89	58.34	-17.45	QP
5	0.44	0.01	9.49	21.03	30.53	47.11	-16.58	Average
6	0.44	0.01	9.49	31.63	41.13	57.11	-15.98	QP
7	0.56	0.01	9.51	18.38	27.90	46.00	-18.10	Average
8	0.56	0.01	9.51	29.36	38.88	56.00	-17.12	QP
9	0.68	0.02	9.50	14.85	24.37	46.00	-21.63	Average
10	0.68	0.02	9.50	26.39	35.91	56.00	-20.09	QP
11	4.57	0.01	9.55	8.80	18.36	46.00	-27.64	Average
12	4.57	0.01	9.55	23.19	32.75	56.00	-23.25	QP

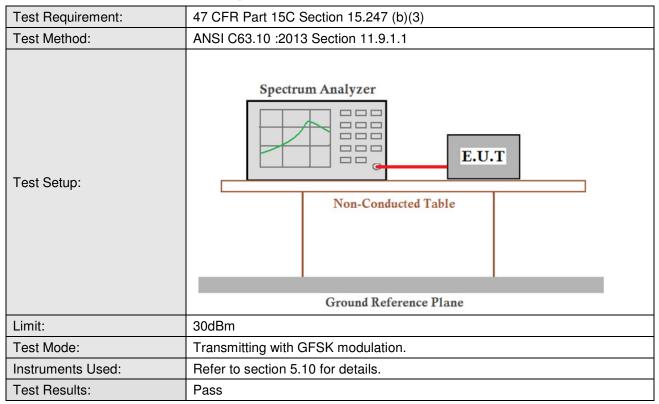
Notes:

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.: SZEM180400250604 Page: 17 of 53

6.3 Conducted Peak Output Power



Measurement Data

GFSK mode								
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result					
Lowest	-2.10	30.00	Pass					
Middle	-2.37	30.00	Pass					
Highest	-2.69	30.00	Pass					



Report No.: SZEM180400250604 Page: 18 of 53

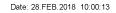
rugel

Span 6.0 MHz

28.02.2018 10:00:14

Test plot as follows:





-10 dBm -20 dBm -30 dBm

-40 dBm

-90°aBm

-60 dBm--70 dBm-

CF 2.44 GHz

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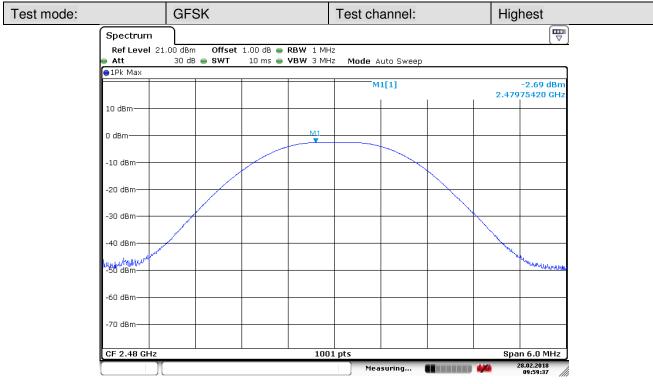
1001 pts

Measuring...

UXI



Report No.: SZEM180400250604 Page: 19 of 53



Date: 28.FEB.2018 09:59:37



Report No.: SZEM180400250604 Page: 20 of 53

6.4 6dB Occupy Bandwidth

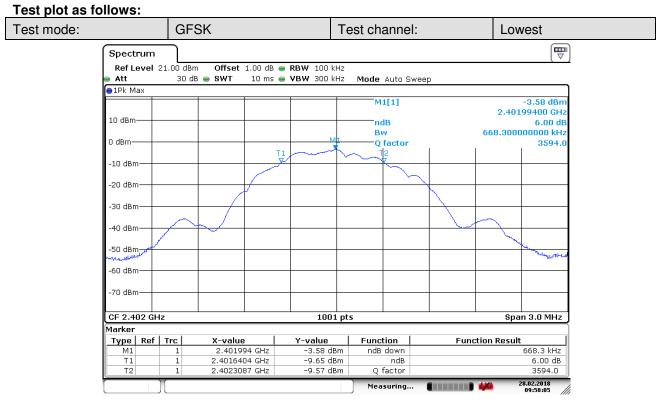
Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)					
Test Method:	ANSI C63.10: 2013 Section 11.8 Option 2					
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Limit:	≥ 500 kHz					
Test Mode:	Transmitting with GFSK modulation.					
Instruments Used:	Refer to section 5.10 for details.					
Test Results:	Pass					

Measurement Data

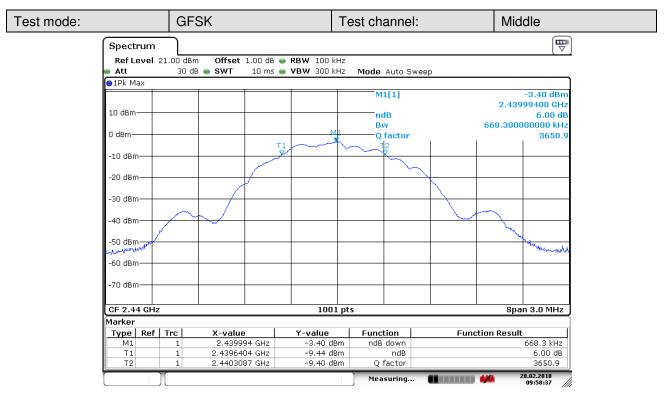
GFSK mode						
Test channel	6dB Occupy Bandwidth (kHz)	Limit (kHz)	Result			
Lowest	668.3	≥500	Pass			
Middle	668.3	≥500	Pass			
Highest	668.3	≥500	Pass			



Report No.: SZEM180400250604 Page: 21 of 53



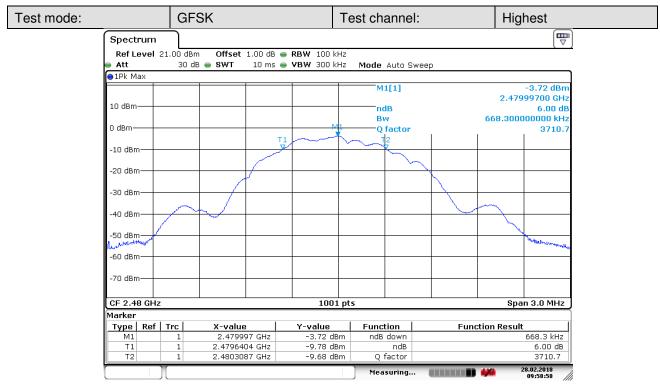
Date: 28.FEB.2018 09:58:05



Date: 28.FEB.2018 09:58:37



Report No.: SZEM180400250604 Page: 22 of 53

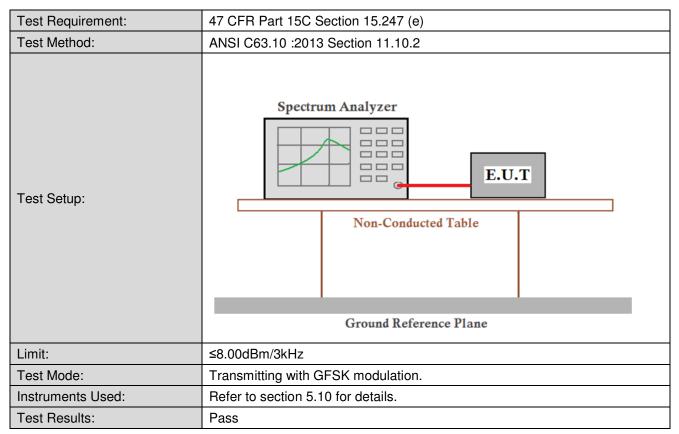


Date: 28.FEB.2018 09:58:59



Report No.: SZEM180400250604 Page: 23 of 53

6.5 Power Spectral Density

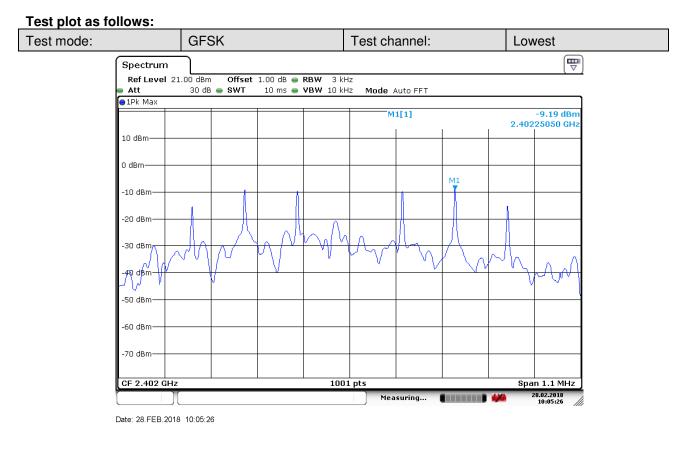


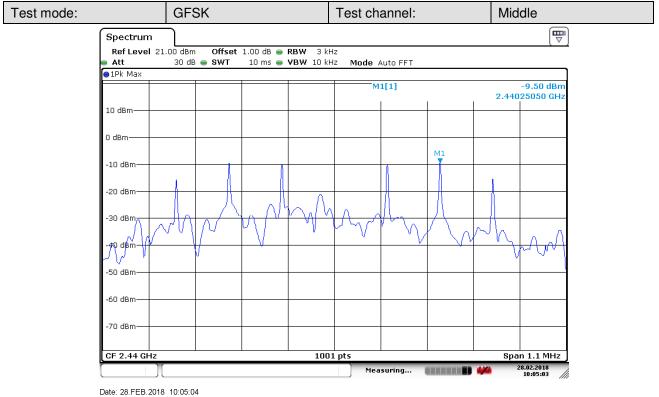
Measurement Data

GFSK mode						
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result			
Lowest	<mark>-9.19</mark>	≤8.00	Pass			
Middle	<mark>-9.50</mark>	≤8.00	Pass			
Highest	<mark>-10.26</mark>	≤8.00	Pass			



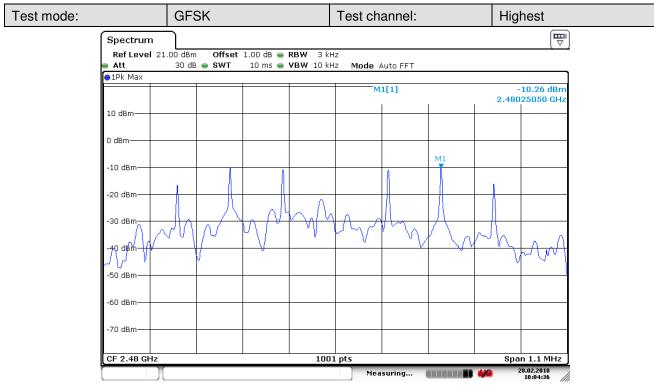
Report No.: SZEM180400250604 Page: 24 of 53







Report No.: SZEM180400250604 Page: 25 of 53



Date: 28.FEB.2018 10:04:37



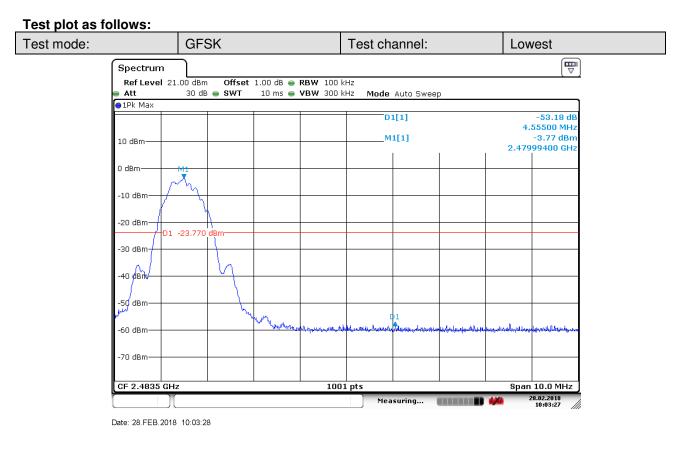
Report No.: SZEM180400250604 Page: 26 of 53

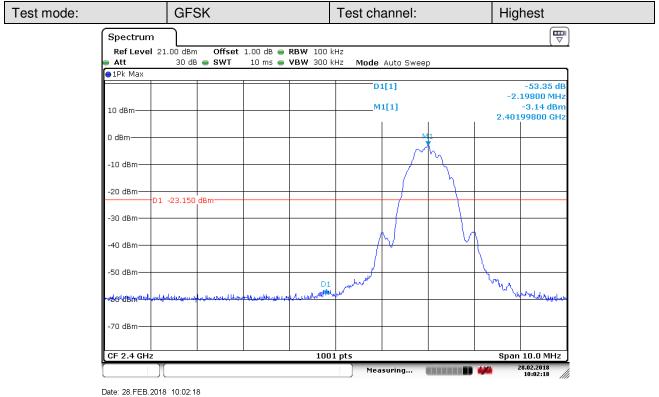
Test Requirement:	47 CFR Part 15C Section 15.247 (d)				
Test Method:	ANSI C63.10: 2013 Section 11.13				
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is 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				

6.6 Band-edge for RF Conducted Emissions



Report No.: SZEM180400250604 Page: 27 of 53







Report No.: SZEM180400250604 Page: 28 of 53

6.7 Spurious RF Conducted Emissions

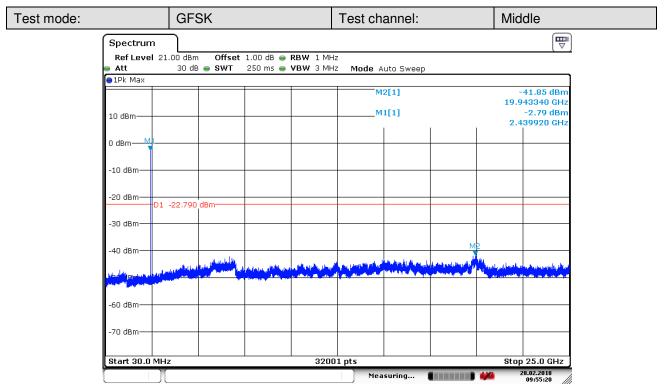
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	Spectrum Analyzer E-U.T Non-Conducted Table Ground Reference Plane
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the 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



Report No.: SZEM180400250604 Page: 29 of 53

Test plot as follows: Test mode: GFSK Test channel: Lowest **T** Spectrum Ref Level 21.00 dBm Offset 1.00 dB 👄 RBW 1 MHz 30 dB 💿 SWT 250 ms 👄 **VBW** 3 MHz Att Mode Auto Sweep ⊖1Pk Ma> M2[1] 41.58 dBm 19.954270 GHz M1[1] -2.48 dBm 10 dBm 2.401690 GHz 0 dBm -10 dBm -20 dBm D1 -22.480 dBm--30 dBm· -40 dBm -60 dBm· -70 dBm Start 30.0 MHz 32001 pts Stop 25.0 GHz 28.02.2018 09:54:36 Measuring...

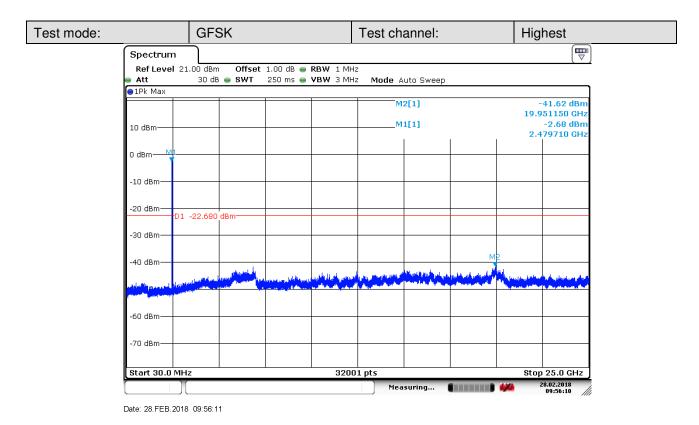
Date: 28.FEB.2018 09:54:36



Date: 28.FEB.2018 09:55:21



Report No.: SZEM180400250604 Page: 30 of 53



Remark:

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

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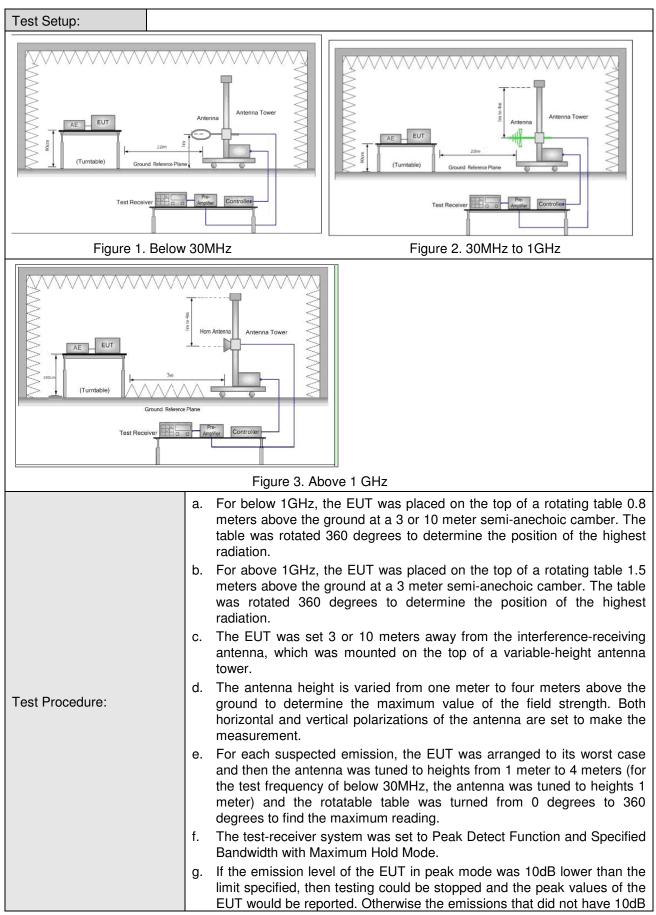
Report No.: SZEM180400250604 Page: 31 of 53

6.8 Radiated Spurious Emission

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10 :2013 Section 11.12							
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)							
	Frequency		Detector	RBW	VBW		Remark	
	0.009MHz-0.090MH	z	Peak	10kHz	30kHz		Peak	
	0.009MHz-0.090MH	z	Average	10kHz	30kHz		Average	
	0.090MHz-0.110MH	z	Quasi-peak	10kHz	30kHz		Quasi-peak	
Receiver Setup:	0.110MHz-0.490MH	z	Peak	10kHz	30kHz		Peak	
neceiver Setup.	0.110MHz-0.490MH	z	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	
	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)	Remark		Measurement distance (m)	
	0.009MHz-0.490MHz	2	400/F(kHz)	-	-		300	
	0.490MHz-1.705MHz	24	4000/F(kHz)	-	-		30	
	1.705MHz-30MHz		30	-	-		30	
	30MHz-88MHz		100	40.0	Quasi-peak		3	
Limit:	88MHz-216MHz		150	43.5	Quasi-pe	ak	3	
	216MHz-960MHz		200	46.0	Quasi-pe	ak	3	
	960MHz-1GHz		500	54.0	Quasi-pe	ak	3	
	Above 1GHz		500	54.0	Average	;	3	
	Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.							



Report No.: SZEM180400250604 Page: 32 of 53



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Report No.: SZEM180400250604 Page: 33 of 53

	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 (2440MHz),the Highest channel (2480MHz)					
	i. The radiation measurements are performed in X, Y, Z axis positi for Transmitting mode, and found the X axis positioning which it worst case.					
	j. Repeat above procedures until all frequencies measured was complete.					
Exploratory Test Mode:	Transmitting with GFSK modulation.					
Exploratory Test Mode: Charge + Transmitting mode.						
	Transmitting with GFSK modulation.					
Final Test Mode:	Pretest the EUT at Charge + Transmitting mode,					
Tinar restividue.	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					



Report No.: SZEM180400250604 Page: 34 of 53

6.8.1 Radiated Emission below 1GHz _ Main Supply

The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

 $L_3 / L_{10} = D_{10} / D_3$

Note:

L3: Level @ 3m distance. Unit: uV/m;

L₁₀: Level @ 10m distance. Unit: uV/m;

D₃: 3m distance. Unit: m

D10: 10m distance. Unit: m

The level at 3m test distance is below:

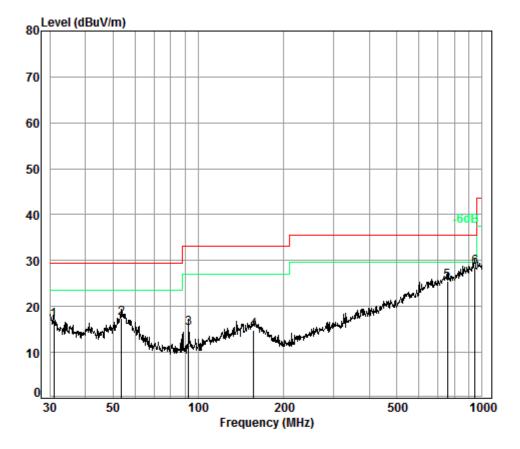
Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Over Limit (dB)	Ant. Polarization
30.96	17.09	7.15	23.84	27.55	40.00	-12.45	V
53.69	17.34	7.36	24.54	27.80	40.00	-12.20	V
92.46	15.15	5.72	19.07	25.61	43.50	-17.89	V
157.01	14.72	5.45	18.15	25.18	43.50	-18.32	V
755.39	25.50	18.84	62.79	35.96	46.00	-10.04	V
942.13	28.55	26.76	89.20	39.01	46.00	-6.99	V
47.99	12.80	4.37	14.55	23.26	40.00	-16.74	Н
59.03	13.62	4.80	15.99	24.08	40.00	-15.92	Н
148.96	14.82	5.51	18.36	25.28	43.50	-18.22	Н
362.98	18.12	8.05	26.85	28.58	46.00	-17.42	Н
658.84	24.31	16.42	54.75	34.77	46.00	-11.23	Н
972.34	28.54	26.73	89.10	39.00	54.00	-15.00	Н

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Report No.: SZEM180400250604 Page: 35 of 53

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



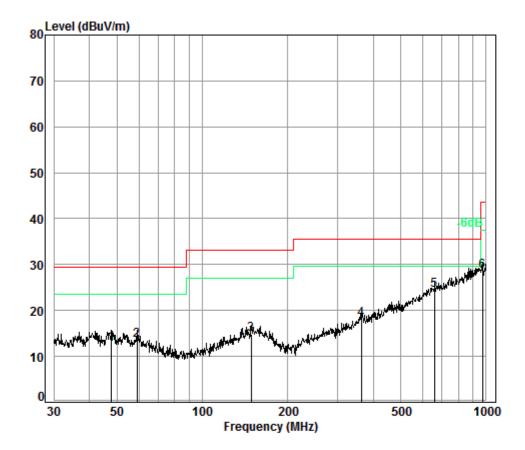
Condition: 10m VERTICAL Job No. : 00879RG Test Mode: BLE

	Freq			Preamp Factor				Over Limit
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.96	6.70	12.50	32.51	30.40	17.09	29.50	-12.41
2	53.69	6.97	12.48	32.43	30.32	17.34	29.50	-12.16
3	92.46	7.20	8.87	32.53	31.61	15.15	33.10	-17.95
4	157.01	7.49	13.40	32.43	26.26	14.72	33.10	-18.38
5	755.39	9.20	20.83	32.26	27.73	25.50	35.60	-10.10
6 pp	942.13	9.56	22.68	31.06	27.37	28.55	35.60	-7.05



Report No.: SZEM180400250604 Page: 36 of 53

Test mode:	Charge + Transmitting	Horizontal
rest mode.	Charge + fransmitting	Horizontal



Condition: 10m HORIZONTAL Job No. : 00879RG Test Mode: BLE

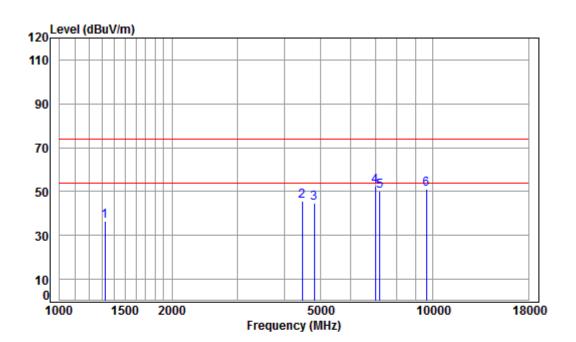
		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
_								
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	47.99	6.86	12.83	32.43	25.54	12.80	29.50	-16.70
2	59.03	7.00	12.07	32.44	26.99	13.62	29.50	-15.88
3	148.96	7.45	13.34	32.43	26.46	14.82	33.10	-18.28
4	362.98	8.30	14.13	32.35	28.04	18.12	35.60	-17.48
5 pp	658.84	9.05	19.64	32.27	27.89	24.31	35.60	-11.29
6	972.34	9.60	22.80	30.83	26.97	28.54	43.50	-14.96



Report No.: SZEM180400250604 Page: 37 of 53

6.8.2 Transmitter Emission above 1GHz _ Main Supply

Test mode: GFSK Test channel: Lowest Remark: Peak Vertical
--



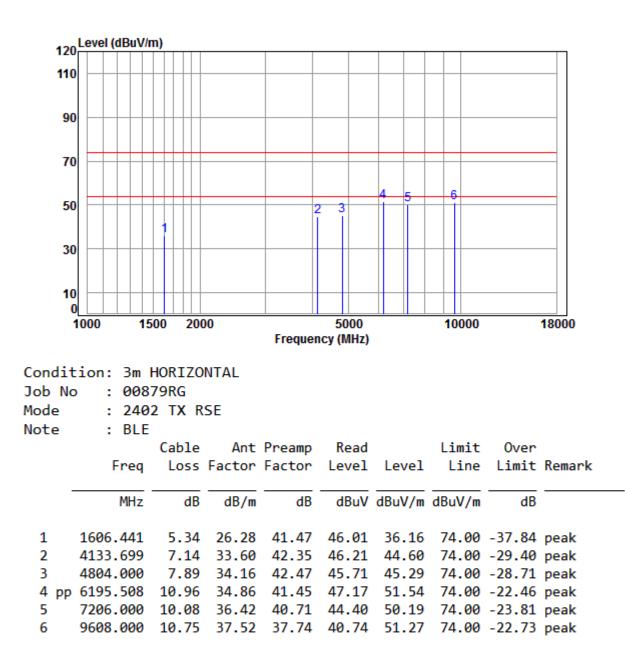
Condition: 3m VERTICAL Job No : 00879RG

Mode	: 240	2 TX R	SE						
Note	: BLE								
		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	1323.614	4.88	25.06	41.28	47.85	36.51	74.00	-37.49	peak
2	4469.214	7.53	33.60	42.41	47.09	45.81	74.00	-28.19	peak
3	4804.000	7.89	34.16	42.47	45.12	44.70	74.00	-29.30	peak
4 pp	6995.172	10.14	36.49	40.86	46.80	52.57	74.00	-21.43	peak
5	7206.000	10.08	36.42	40.71	44.36	50.15	74.00	-23.85	peak
6	9608.000	10.75	37.52	37.74	40.50	51.03	74.00	-22.97	peak
									-



Report No.: SZEM180400250604 Page: 38 of 53

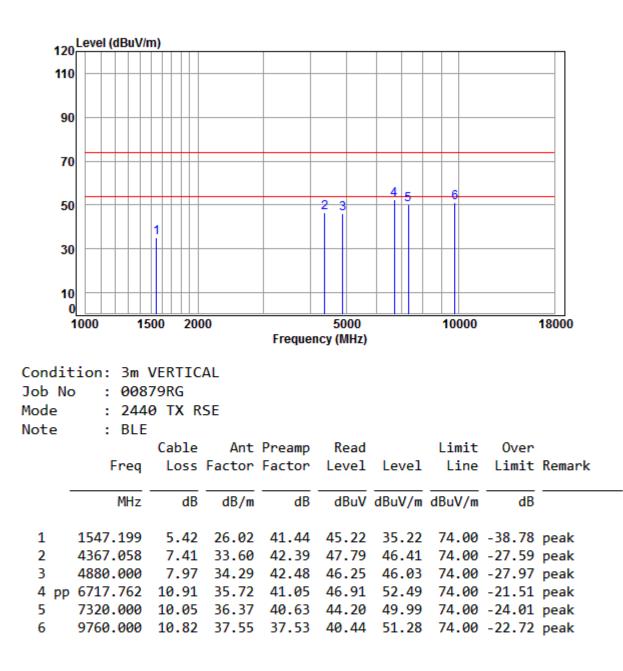
Test mode: GFSK	Test channel:	Lowest	Remark:	Peak	Horizontal
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Report No.: SZEM180400250604 Page: 39 of 53

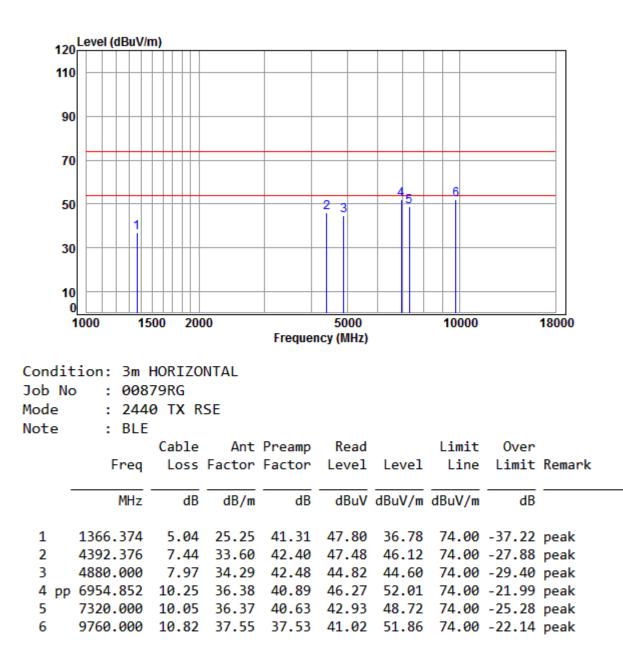
	Test mode:	GFSK	Test channel:	Middle	Remark:	Peak	Vertical
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Report No.: SZEM180400250604 Page: 40 of 53

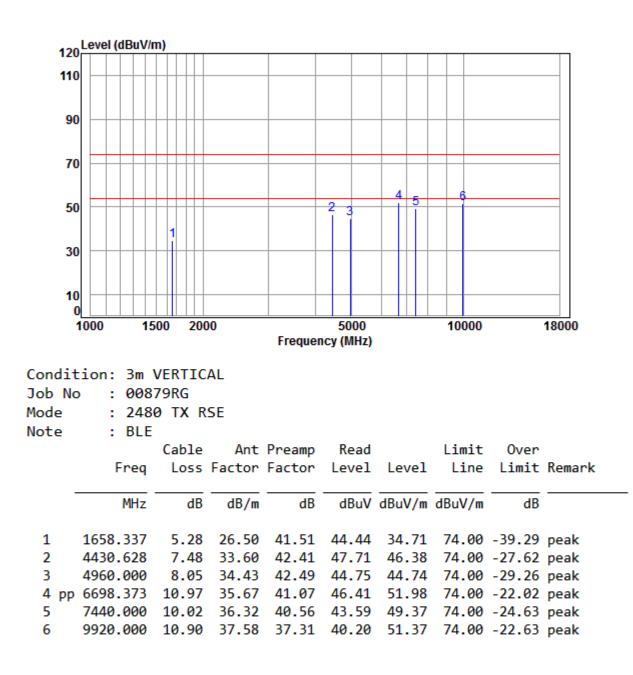
Test mode: GFSK	Test channel:	Middle	Remark:	Peak	Horizontal
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Report No.: SZEM180400250604 Page: 41 of 53

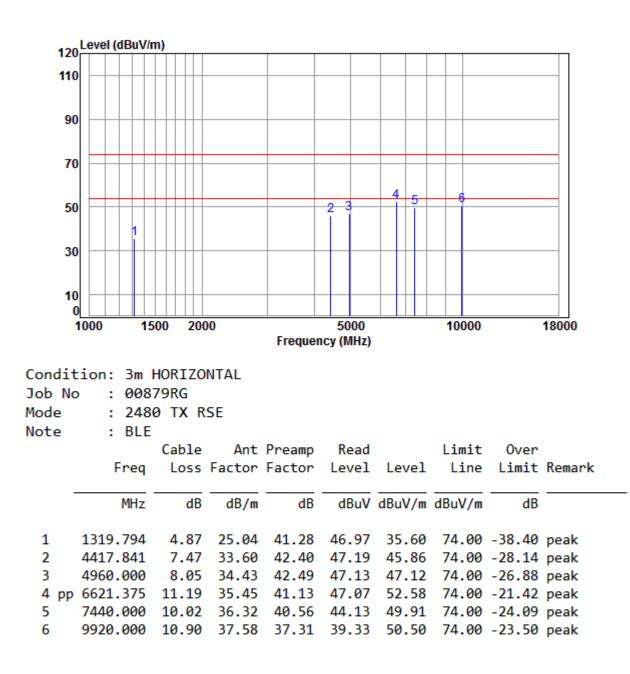
Test mode: GFSK	Test channel:	Highest	Remark:	Peak	Vertical
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Report No.: SZEM180400250604 Page: 42 of 53

Test mode: GFSK	Test channel:	Highest	Remark:	Peak	Horizontal
-----------------	---------------	---------	---------	------	------------

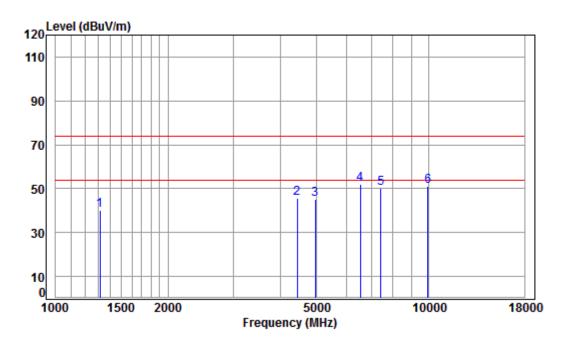




Report No.: SZEM180400250604 Page: 43 of 53

6.8.3 Radiated Emission _ Secondary Supply

Test mode: GFSK Test channel: Highest Remark: Peak H	ontal
--	-------



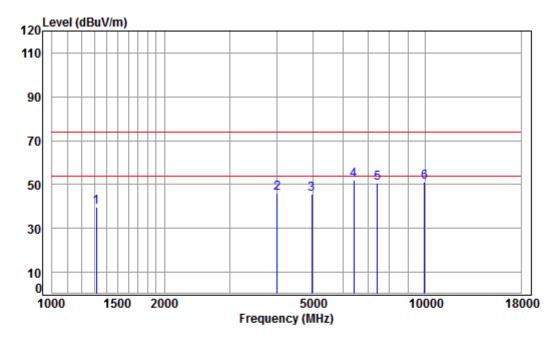
Condition:	3m HORIZONTAL
Job No :	00879RG
Mode :	2480 TX SE
Note :	

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1315.985	4.86	25.03	41.27	51.41	40.03	74.00	-33.97	peak
2	4443.453	7.50	33.60	42.41	47.05	45.74	74.00	-28.26	peak
3	4960.000	8.05	34.43	42.49	45.33	45.32	74.00	-28.68	peak
4 pp	6545.263	11.41	35.23	41.18	46.38	51.84	74.00	-22.16	peak
5	7440.000	10.02	36.32	40.56	44.35	50.13	74.00	-23.87	peak
6	9920.000	10.90	37.58	37.31	40.14	51.31	74.00	-22.69	peak



Report No.: SZEM180400250604 Page: 44 of 53

Test mode: GFSK	Test channel:	Highest	Remark:	Peak	Vertical
-----------------	---------------	---------	---------	------	----------



Condition: 3m VERTICAL Job No : 00879RG Mode : 2480 TX SE Note :

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1315.985	4.86	25.03	41.27	50.85	39.47	74.00	-34.53	peak
2	4004.339	6.99	33.60	42.33	47.67	45.93	74.00	-28.07	peak
3	4960.000	8.05	34.43	42.49	45.78	45.77	74.00	-28.23	peak
4 pp	6432.732	11.41	35.05	41.27	46.78	51.97	74.00	-22.03	peak
5	7440.000	10.02	36.32	40.56	45.01	50.79	74.00	-23.21	peak
	9920.000								-
3 4 pp 5	4960.000 6432.732 7440.000	8.05 11.41 10.02	34.43 35.05 36.32	42.49 41.27 40.56	45.78 46.78 45.01	45.77 51.97 50.79	74.00 74.00 74.00	-28.23 -22.03 -23.21	peak peak peak



Report No.: SZEM180400250604 Page: 45 of 53

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.
- 4) Only the worstest case Radiated Spurious Emissions test data of Secondary supply showed .

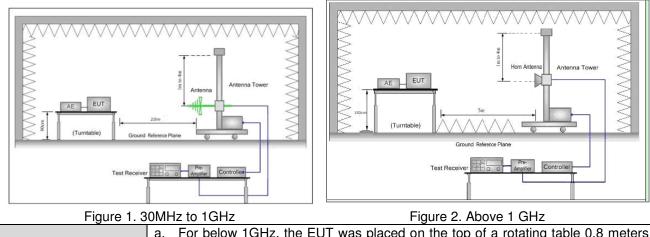


Report No.: SZEM180400250604 Page: 46 of 53

6.9 Restricted bands around fundamental frequency

47 CFR Part 15C Section 1	47 CFR Part 15C Section 15.209 and 15.205				
ANSI C63.10: 2013 Section	ANSI C63.10: 2013 Section 11.12				
Measurement Distance: 3m	n (Semi-Anechoic Chambe	r)			
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 1015	54.0	Average Value			
ADOVE IGHZ	74.0	Peak Value			
	ANSI C63.10: 2013 Section Measurement Distance: 3m Frequency 30MHz-88MHz 88MHz-216MHz 216MHz-960MHz	ANSI C63.10: 2013 Section 11.12Measurement Distance: 3m (Semi-Anechoic ChambeFrequencyLimit (dBuV/m @3m)30MHz-88MHz40.088MHz-216MHz43.5216MHz-960MHz46.0960MHz-1GHz54.0Above 1GHz54.0			

Test Setup:



9		
	а.	For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters
		above the ground at a 3 meter semi-anechoic camber. The table was rotated
		360 degrees to determine the position of the highest radiation.
	b.	For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters
		above the ground at a 3 meter semi-anechoic camber. The table was rotated
		360 degrees to determine the position of the highest radiation.
	с.	The EUT was set 3 meters away from the interference-receiving antenna,
		which was mounted on the top of a variable-height antenna tower.
	d.	The antenna height is varied from one meter to four meters above the ground
		to determine the maximum value of the field strength. Both horizontal and
		vertical polarizations of the antenna are set to make the measurement.
Test Procedure:	e.	For each suspected emission, the EUT was arranged to its worst case and then
		the antenna was tuned to heights from 1 meter to 4 meters and the rotatable
		table was turned from 0 degrees to 360 degrees to find the maximum reading.
	f.	The test-receiver system was set to Peak Detect Function and Specified
		Bandwidth with Maximum Hold Mode.
	g.	Place a marker at the end of the restricted band closest to the transmit
		frequency to show compliance. Also measure any emissions in the restricted
		bands. Save the spectrum analyzer plot. Repeat for each power and
	Ι.	modulation for lowest and highest channel
	h.	Test the EUT in the lowest channel, the Highest channel
	li.	The radiation measurements are performed in X, Y, Z axis positioning for

 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.

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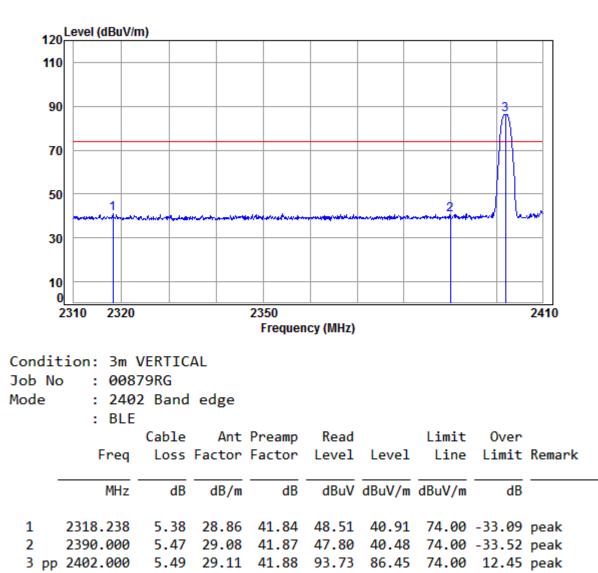


Report No.: SZEM180400250604 Page: 47 of 53

Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details.
Test Results:	Pass

Test plot of Main supply as follows:

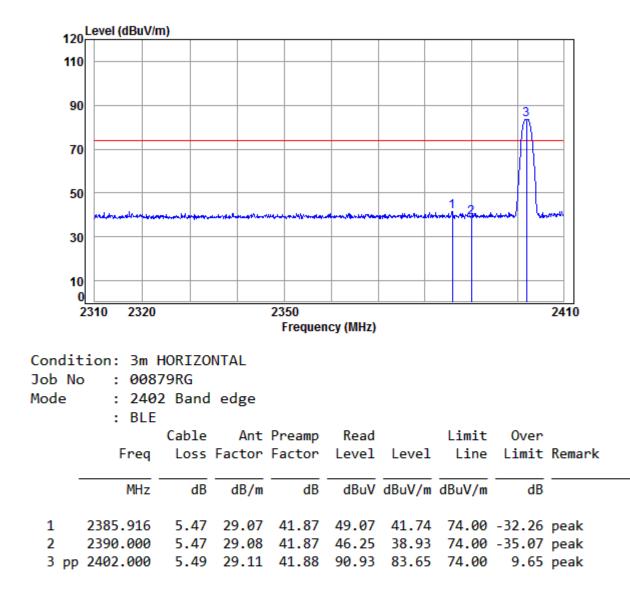
Worse case mode:	GFSK	Test channel:	Lowest	Remark:	Peak	Vertical





Report No.: SZEM180400250604 Page: 48 of 53

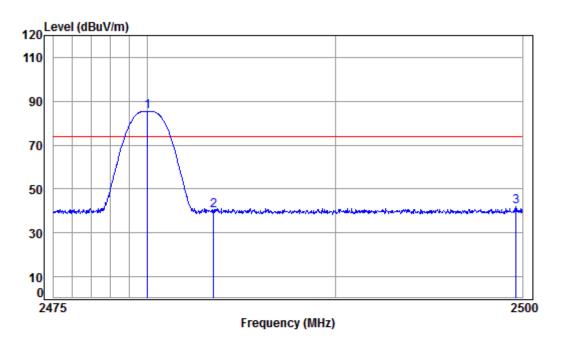
Worse case mode: GFSK	Test channel:	Lowest	Remark:	Peak	Horizontal
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Report No.: SZEM180400250604 Page: 49 of 53

Worse case mode: GFSK	Test channel:	Highest	Remark:	Peak	Vertical
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Condition:	Зm	VERTICAL
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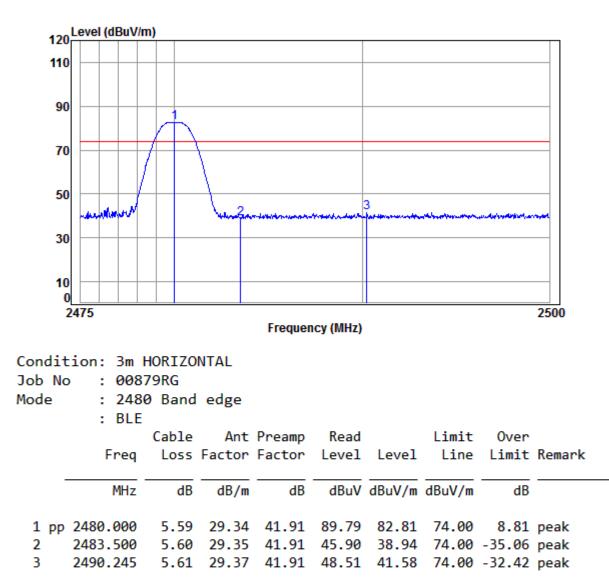
Job	No	:	00879RG

Mode	: 2480 : BLE	0 Band	edge						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
							10.1/1-		
	MHz	dВ	dB/m	dB	aBuv	dBuV/m	dBuV/m	dB	
1 pp	2480.000	5.59	29.34	41.91	92.35	85.37	74.00	11.37	peak
2	2483.500	5.60	29.35	41.91	47.22	40.26	74.00	-33.74	peak
3	2499.648	5.62	29.40	41.92	48.66	41.76	74.00	-32.24	peak



Report No.: SZEM180400250604 Page: 50 of 53

Worse case mode:	GFSK	Test channel:	Highest	Remark:	Peak	Horizontal
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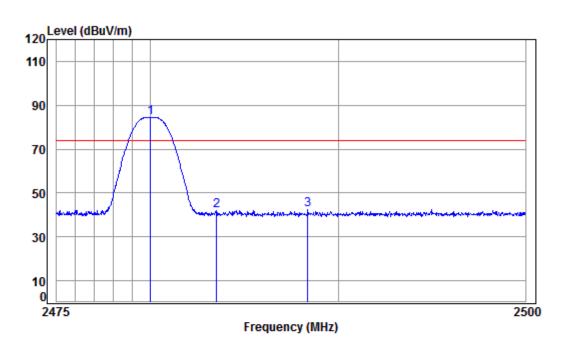




Report No.: SZEM180400250604 Page: 51 of 53

Test plot of Secondary supply as follows:

Worse case mode: GF	FSK Test of	channel: Highest	Remark:	Peak	Horizontal
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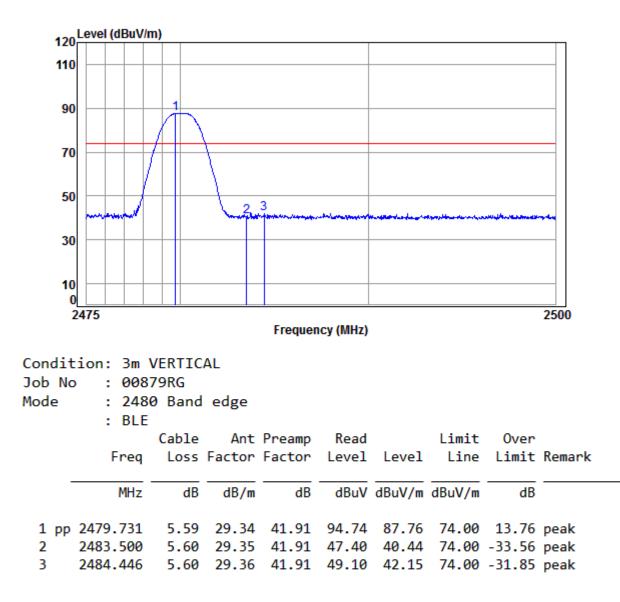
Condition:	3m HORIZONTAL
Job No :	00879RG

Mode	de : 2480 Band edge													
	: BLE													
		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	2480.000	5.59	29.34	41.91	91.47	84.49	74.00	10.49	peak					
2	2483.500	5.60	29.35	41.91	48.81	41.85	74.00	-32.15	peak					
3	2488.369	5.60	29.37	41.91	49.38	42.44	74.00	-31.56	peak					



Report No.: SZEM180400250604 Page: 52 of 53

Worse case mode: GFSK	Test channel:	Highest	Remark:	Peak	Vertical
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Report No.: SZEM180400250604 Page: 53 of 53

Note:

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) Only the worstest case Restricted bands around fundamental frequency test data of Secondary supply showed.

7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1804002506RG.