

Report No.: SZEM200600524103

Page: 1 of 56

TEST REPORT

Application No.:SZEM2006005241CRApplicant:Creative Labs Pte. Ltd.

Address of Applicant: 31 International Business Park #03-01 Singapore 609921

Manufacturer: Creative Labs Pte. Ltd.

Address of Manufacturer: 31 International Business Park #03-01 Singapore 609921

Equipment Under Test (EUT):

EUT Name: CREATIVE SXFI CARRIER

Model No.:MF8345Trade Mark:CREATIVEFCC ID:2AJIV-MF8345

Standard(s): 47 CFR Part 15, Subpart C 15.247

Date of Receipt: 2020-06-17

Date of Test: 2020-06-11 to 2020-06-30

Date of Issue: 2020-08-01

Test Result: Pass*

Keny Xu EMC Laboratory Manager

Ceny. Ku



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



Report No.: SZEM200600524103

Page: 2 of 56

	Revision Record					
Version Chapter Date Modifier Remark						
01		2020-08-01		Original		

Authorized for issue by:		
	Vincent Chen	
	Vincent Chen /Project Engineer	
	EvicFu	
	Eric Fu /Reviewer	



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Report No.: SZEM200600524103

Page: 3 of 56

Test Summary 2

Radio Spectrum Technical Requirement						
Item Standard Method Requirement Result						
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass		

Radio Spectrum Matter Part						
Item	Standard	Method	Requirement	Result		
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass		
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass		
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass		
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass		
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass		
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass		
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		



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Report No.: SZEM200600524103

Page: 4 of 56

Contents

			age
1	COV	'ER PAGE	1
2	TES	T SUMMARY	3
_	001	ITENTO	
3	CON	ITENTS	4
4	GEN	IERAL INFORMATION	6
	4.1	DETAILS OF E.U.T.	
	4.2	DESCRIPTION OF SUPPORT UNITS	
	4.3	MEASUREMENT UNCERTAINTY	
	4.4	TEST LOCATION	
	4.5 4.6	TEST FACILITY DEVIATION FROM STANDARDS	
	4.6 4.7	ABNORMALITIES FROM STANDARD CONDITIONS	
5	EQU	IIPMENT LIST	9
6	RΔD	OIO SPECTRUM TECHNICAL REQUIREMENT	14
Ü			
	6.1	ANTENNA REQUIREMENT	
	6.1.1 6.1.2		
	02		
7	RAD	NO SPECTRUM MATTER TEST RESULTS	
	7.1	CONDUCTED EMISSIONS AT AC POWER LINE (150KHz-30MHz)	15
	7.1.1	I E.U.T. Operation	16
	7.1.2		
	7.1.3		
	7.2	MINIMUM 6DB BANDWIDTH	
	7.2.1		
	7.2.2 7.2.3	, 5	
	7.2.0	CONDUCTED PEAK OUTPUT POWER	
	7.3.1		
	7.3.2	,	
	7.3.3	, •	
	7.4	Power Spectrum Density	22
	7.4.1	•	
	7.4.2	1 0	
	7.4.3		22
	7.5 <i>7.5.</i> 1	CONDUCTED BAND EDGES MEASUREMENT	23
	7.5.1 7.5.2	=-0	24 24
	7.5.2 7.5.3		24 24
	7.6	CONDUCTED SPURIOUS EMISSIONS	25
	7.6.1		26
	7.6.2	·	26



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Report No.: SZEM200600524103

Page: 5 of 56

	7.6.3	Measurement Procedure and Data	26
		RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS	
		E.U.T. Operation	
	7.7.2	Test Setup Diagram	27
	7.7.3	Measurement Procedure and Data	28
		RADIATED SPURIOUS EMISSIONS	
	7.8.1	E.U.T. Operation	34
	7.8.2	Test Setup Diagram	34
	7.8.3	Measurement Procedure and Data	35
8	PHOT	OGRAPHS	45
	8.1 T	EST SETUP	45
		EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)	
9	APPE	NDIX	46
	91 A	APPENDIX 15 247	46-56



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Report No.: SZEM200600524103

Page: 6 of 56

General Information

4.1 Details of E.U.T.

Power Supply:	Soundbar powered by Adapter:
	Model: DYS902-240400W
	Input: AC100-240V, 50/60Hz, 1.5A Max
	Output: DC 24.0V, 4.0A
	DC 3.0V (2*1.5V "AAA" Size Batteries) for remote controller
Cable:	AC cable: 114cm unshielded
	DC cable: 145.5cm unshielded with one core
	HDMI Cable 120 shielded with two cores
	HDMI Cable 150 shielded with two cores
	Type-C cable 200cm shielded
	AUX In cable 155cm unshielded
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.0 Dual mode
Channel Spacing:	2MHz
Data Rate:	1Mbit/s
Modulation Type:	GFSK
Number of Channels:	40
Antenna Type:	PCB Antenna
Antenna Gain:	3.4dBi

4.2 Description of Support Units

The EUT has been tested as an independent unit.



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Report No.: SZEM200600524103

Page: 7 of 56

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	± 7.25 x 10 ⁻⁸
2	Duty cycle	± 0.37%
3	Occupied Bandwidth	± 3%
4	Conduction emission	± 3.0dB (150kHz to 30MHz)
5	RF conducted power	± 0.75dB
6	RF power density	± 2.84dB
7	Conducted Spurious emissions	± 0.75dB
0	DE De diete du course	± 4.5dB (Below 1GHz)
8	RF Radiated power	± 4.8dB (Above 1GHz)
0	Dedicted Courses ancies on test	± 4.5dB (Below 1GHz)
9	Radiated Spurious emission test	± 4.8dB (Above 1GHz)
10	Temperature test	± 1℃
11	Humidity test	± 3%
12	Supply voltages	± 1%
13	Time	± 3%



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Report No.: SZEM200600524103

Page: 8 of 56

4.4 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.

4.5 Test Facility

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

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.

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 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.

Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

4.7 Abnormalities from Standard Conditions

None



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Page: 9 of 56

Equipment List 5

Conducted Emissions at AC Power Line (150kHz-30MHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2019-06-13	2022-06-12	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM024-01	2019-07-11	2020-07-10	
Guaxiai Gable	363	IN/A	3EIVI024-01	2020-07-10	2021-07-09	
LISN	Rohde & Schwarz	ENV216	SEM007-01	2019-09-24	2020-09-23	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2020-04-01	2021-03-31	
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2020-03-24	2021-03-23	

Minimum 6dB Bandwidth						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12	
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23	
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23	
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A	
Coaxial Cable	Coaxial Cable SGS N/A SEM031-02	2019-07-11	2020-07-10			
Goaxiai Gable	565	IN/A	SEIVIUS 1-02	2020-07-10	2021-07-09	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	N/A	N/A	
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23	
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23	
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27	

Conducted Peak Output Power						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12	
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23	
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23	
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10	
Coaxiai Cable	565	IN/A	SEIVIU31-02	2020-07-10	2021-07-09	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	N/A	N/A	
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23	



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Report No.: SZEM200600524103

Page: 10 of 56

Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27

Power Spectrum Densit	у				
Equipment	Manufacturer	Model No	Model No Inventory No		Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	NI/A	CEM031 03	2019-07-11	2020-07-10
Coaxiai Cable	565	N/A SEM031-02		2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27

Conducted Band Edges Measurement						
Equipment	Manufacturer	Model No	Model No Inventory No		Cal Due Date	
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12	
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23	
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23	
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10	
Coaxiai Cable	3G3	IN/A	SEIVIU31-02	2020-07-10	2021-07-09	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	N/A	N/A	
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23	
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23	
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27	



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Report No.: SZEM200600524103

Page: 11 of 56

Conducted Spurious En	nissions				
Equipment	Manufacturer	Model No	Model No Inventory No		Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Cooviel Cable	202	N/A	CEM031 03	2019-07-11	2020-07-10
Coaxial Cable	SGS	IN/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	MA-50- SEM021-09 N/A		N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27

Radiated Emissions which fall in the restricted bands						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	909	SGS N/A SEM026-01 -		2019-07-11	2020-07-10	
Guaxiai Gabie	363			2020-07-10	2021-07-09	
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08	
Horn Antenna	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12	
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16	
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23	
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2020-04-01	2021-03-31	
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31	
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23	
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21	



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Report No.: SZEM200600524103

Page: 12 of 56

Radiated Emissions (30	MHz-1GHz)				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018-03-31	2021-03-30
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2019-07-11	2020-07-10
Goaxiai Gable	565	IN/A	SEIVIU29-01	2020-07-10	2021-07-09
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2019-12-16	2020-12-15
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2019-08-08	2022-08-07
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2020-04-09	2021-04-08

Radiated Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Cooviel Coble	SGS	000		2019-07-11	2020-07-10
Coaxial Cable	3G3	N/A	SEM026-01	2020-07-10	2021-07-09
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2020-04-01	2021-03-31
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21

General used equipmen	t				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2019-09-26	2020-09-25



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Report No.: SZEM200600524103

Page: 13 of 56

Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2019-09-26	2020-09-25
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2019-09-26	2020-09-25
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-07	2021-04-06



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Report No.: SZEM200600524103

Page: 14 of 56

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

Standard 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 3.4dBi.

Antenna location: Refer to internal photo.





Report No.: SZEM200600524103

Page: 15 of 56

Radio Spectrum Matter Test Results 7

Conducted Emissions at AC Power Line (150kHz-30MHz)

47 CFR Part 15, Subpart C 15.207 Test Requirement Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

si-peak Average	
to 56* 56 to 46*	
56 46	
60 50	
	56 46



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Report No.: SZEM200600524103

Page: 16 of 56

7.1.1 E.U.T. Operation

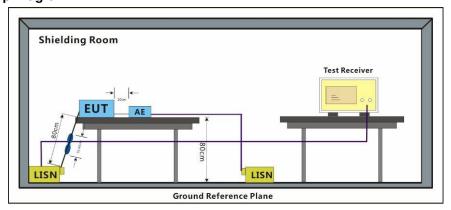
Operating Environment:

Temperature: 23 °C Humidity: % RH Atmospheric Pressure: 1005 mbar

Test mode c:TX mode Keep the EUT in continuously transmitting mode with GFSK

modulation

7.1.2 Test Setup Diagram



7.1.3 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50µH + 50hm 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.
- 3) 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,
- 4) 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.
- 5) 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 on conducted measurement.

Remark: LISN=Read Level+ Cable Loss+ LISN Factor



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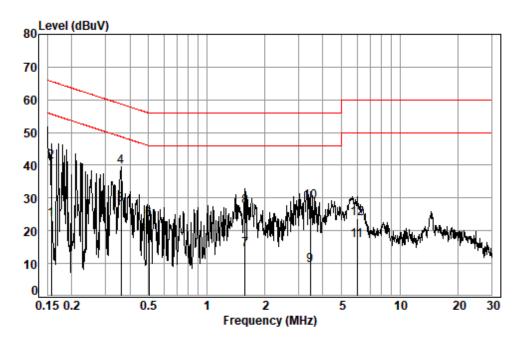
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Report No.: SZEM200600524103

Page: 17 of 56

Mode:c; Line:Live Line



: Shielding Room

Condition: Line Job No. : 05241CR

Test mode: c

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1573	0.01	9.59	13.96	23.56	55.60	-32.04	Average
2	0.1573	0.01	9.59	31.60	41.20	65.60	-24.40	QP
3	0.3615	0.05	9.59	18.48	28.12	48.69	-20.57	Average
4	0.3615	0.05	9.59	29.80	39.44	58.69	-19.25	QP
5	0.5020	0.06	9.59	9.81	19.46	46.00	-26.54	Average
6	0.5020	0.06	9.59	13.67	23.32	56.00	-32.68	QP
7	1.5851	0.14	9.61	4.60	14.35	46.00	-31.65	Average
8	1.5851	0.14	9.61	17.55	27.30	56.00	-28.70	QP
9	3.4356	0.16	9.66	-0.38	9.44	46.00	-36.56	Average
10	3.4356	0.16	9.66	19.08	28.90	56.00	-27.10	QP
11	6.0243	0.17	9.70	7.08	16.95	50.00	-33.05	Average
12	6.0243	0.17	9.70	13.74	23.61	60.00	-36.39	QP



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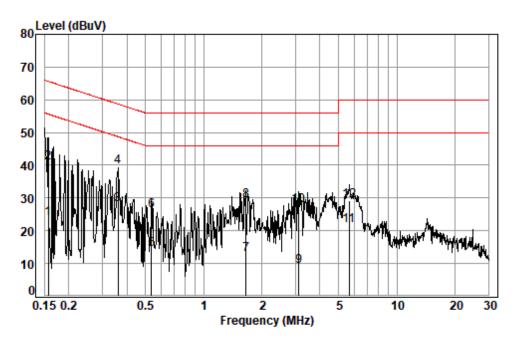
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Report No.: SZEM200600524103

Page: 18 of 56

Mode:c; Line:Neutral Line



: Shielding Room

Condition: Neutral Job No. : 05241CR

Test mode: c

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1573	0.01	9.55	14.30	23.86	55.60	-31.74	Average
2	0.1573	0.01	9.55	31.26	40.82	65.60	-24.78	QP
3	0.3615	0.05	9.54	18.39	27.98	48.69	-20.71	Average
4	0.3615	0.05	9.54	29.81	39.40	58.69	-19.29	QP
5	0.5378	0.06	9.54	4.77	14.37	46.00	-31.63	Average
6	0.5378	0.06	9.54	16.59	26.19	56.00	-29.81	QP
7	1.6537	0.14	9.56	3.14	12.84	46.00	-33.16	Average
8	1.6537	0.14	9.56	19.63	29.33	56.00	-26.67	QP
9	3.1066	0.16	9.58	-0.51	9.23	46.00	-36.77	Average
10	3.1066	0.16	9.58	17.87	27.61	56.00	-28.39	QP
11	5.6532	0.17	9.65	11.89	21.71	50.00	-28.29	Average
12	5.6532	0.17	9.65	19.49	29.31	60.00	-30.69	QP



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Page: 19 of 56

7.2 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2) Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit: ≥500 kHz

7.2.1 E.U.T. Operation

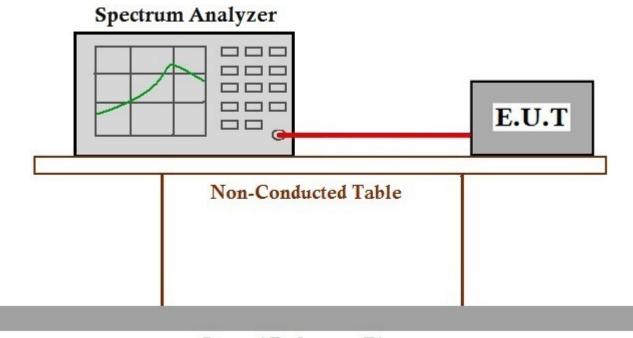
Operating Environment:

Temperature: 30.3 °C 33.8 % RH Atmospheric Pressure: 1005 mbar Humidity:

Test mode c:TX mode_Keep the EUT in continuously transmitting mode with GFSK

modulation

7.2.2 Test Setup Diagram



Ground Reference Plane

7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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Page: 20 of 56

7.3 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3) Test Method: ANSI C63.10 (2013) Section 11.9.1

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
	1 for ≥50 hopping channels
902-928	0.25 for 25≤ hopping channels <50
	1 for digital modulation
	1 for ≥75 non-overlapping hopping channels
2400-2483.5	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation



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Report No.: SZEM200600524103

Page: 21 of 56

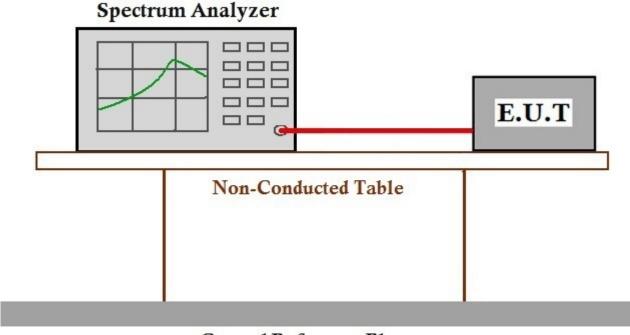
7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 30.3 °C Humidity: 33.8 % RH Atmospheric Pressure: 1005 mbar

Test mode c:TX mode Keep the EUT in continuously transmitting mode with GFSK

7.3.2 Test Setup Diagram



Ground Reference Plane

7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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Report No.: SZEM200600524103

Page: 22 of 56

7.4 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e) Test Method: ANSI C63.10 (2013) Section 11.10.2

Limit: ≤8dBm in any 3 kHz band during any time interval of continuous

transmission

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: Atmospheric Pressure: 1005 mbar Humidity: 33.8 % RH

Test mode c:TX mode_Keep the EUT in continuously transmitting mode with GFSK

modulation

7.4.2 Test Setup Diagram

Spectrum Analyzer E.U.T Non-Conducted Table

Ground Reference Plane

7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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Report No.: SZEM200600524103

Page: 23 of 56

7.5 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d) Test Method: ANSI C63.10 (2013) Section 11.13.3.2

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)

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Report No.: SZEM200600524103

24 of 56 Page:

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 30.2 °C Humidity: 33.8 % RH Atmospheric Pressure: 1005 mbar

Test mode c:TX mode Keep the EUT in continuously transmitting mode with GFSK

modulation

7.5.2 Test Setup Diagram

Spectrum Analyzer E.U.T Non-Conducted Table

Ground Reference Plane

7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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Report No.: SZEM200600524103

Page: 25 of 56

7.6 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d) Test Method: ANSI C63.10 (2013) Section 11.11

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in

§15.209(a) (see §15.205(c)



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Report No.: SZEM200600524103

Page: 26 of 56

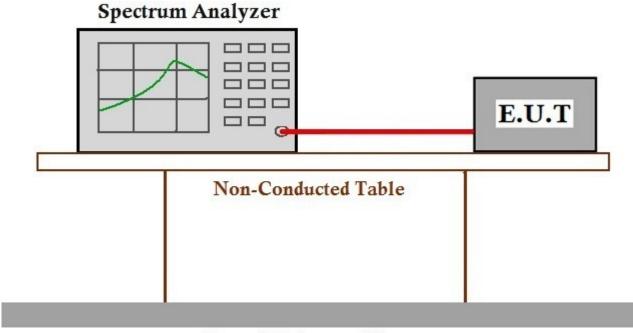
7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 30.3 °C Humidity: 33.8 % RH Atmospheric Pressure: 1005 mbar

Test mode c:TX mode Keep the EUT in continuously transmitting mode with GFSK

7.6.2 Test Setup Diagram



Ground Reference Plane

7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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Report No.: SZEM200600524103

Page: 27 of 56

7.7 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

ANSI C63.10 (2013) Section 6.10.5 Test Method:

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.

7.7.1 E.U.T. Operation

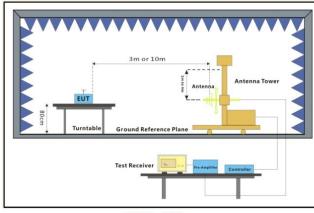
Operating Environment:

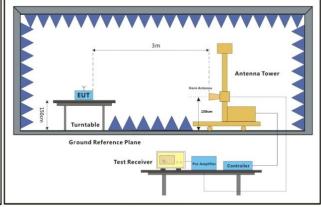
Temperature: 23.3 °C Humidity: 47 % RH Atmospheric Pressure: 1005 mbar

Test mode c:TX mode_Keep the EUT in continuously transmitting mode with GFSK

modulation

7.7.2 Test Setup Diagram





Above 1GHz 30MHz-1GHz



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Report No.: SZEM200600524103

Page: 28 of 56

7.7.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. 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 fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be 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, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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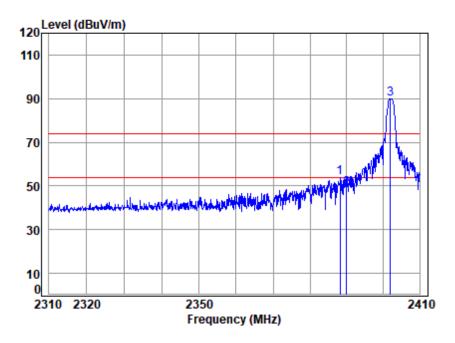
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Report No.: SZEM200600524103

Page: 29 of 56

Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 05241CR

: 2402 Band edge Mode

Note : BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2388.242								•
	2390.000								•
3 *	2402 000	4.36	28.54	40 98	97.91	89.83	74.00	15.83	neak



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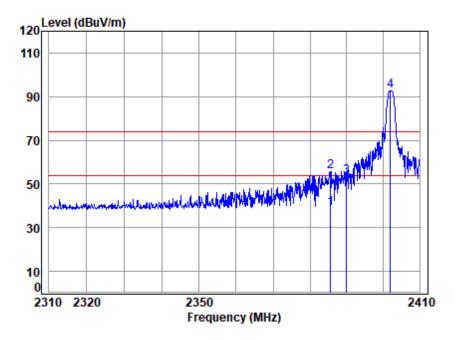
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Report No.: SZEM200600524103

Page: 30 of 56

Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 05241CR

: 2402 Band edge Mode

Note : BLE

	Freq				Read Level				Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2385.612	4.34	28.51	40.97	46.95	38.83	54.00	-15.17	Average
2	2385.612	4.34	28.51	40.97	63.84	55.72	74.00	-18.28	peak
3	2390.000	4.34	28.52	40.97	61.63	53.52	74.00	-20.48	peak
4 *	2402.000	4.36	28.54	40.98	100.75	92.67	74.00	18.67	peak



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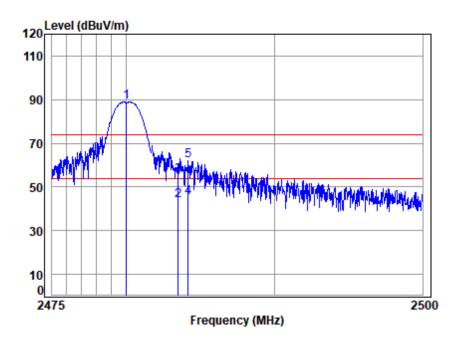
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Report No.: SZEM200600524103

Page: 31 of 56

Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 05241CR

: 2480 Band edge Mode

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 *	2480.000	4.49	28.67	41.01	96.65	88.80	74.00	14.80	peak
2	2483.500	4.49	28.67	41.01	51.76	43.91	54.00	-10.09	Average
3	2483.500	4.49	28.67	41.01	63.22	55.37	74.00	-18.63	peak
4	2484.146	4.50	28.67	41.01	53.21	45.37	54.00	-8.63	Average
5	2484.146	4.50	28.67	41.01	69.85	62.01	74.00	-11.99	peak



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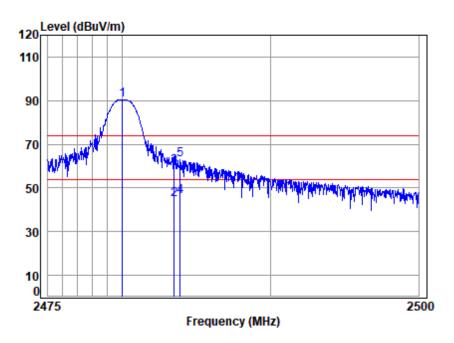
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Report No.: SZEM200600524103

Page: 32 of 56

Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 05241CR

Mode : 2480 Band edge

Note : BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	2480.000	4.49	28.67	41.01	98.11	90.26	74.00	16.26	peak
2	2483.500	4.49	28.67	41.01	52.75	44.90	54.00	-9.10	Average
3	2483.500	4.49	28.67	41.01	67.53	59.68	74.00	-14.32	peak
4	2483.896	4.49	28.67	41.01	53.76	45.91	54.00	-8.09	Average
5	2483.896	4.49	28.67	41.01	70.69	62.84	74.00	-11.16	neak



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Report No.: SZEM200600524103

Page: 33 of 56

7.8 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209 Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.



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Report No.: SZEM200600524103

Page: 34 of 56

7.8.1 E.U.T. Operation

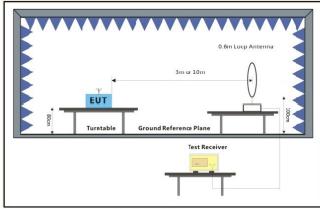
Operating Environment:

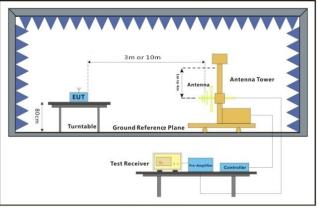
Temperature: 25 °C Humidity: 45 % RH Atmospheric Pressure: 1005 mbar

Test mode c:TX mode_Keep the EUT in continuously transmitting mode with GFSK

modulation

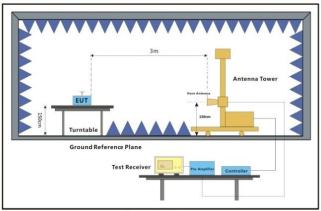
7.8.2 Test Setup Diagram





Below 30MHz

30MHz-1GHz



Above 1GHz



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Report No.: SZEM200600524103

Page: 35 of 56

7.8.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. 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 fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be 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, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) 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

- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 4) 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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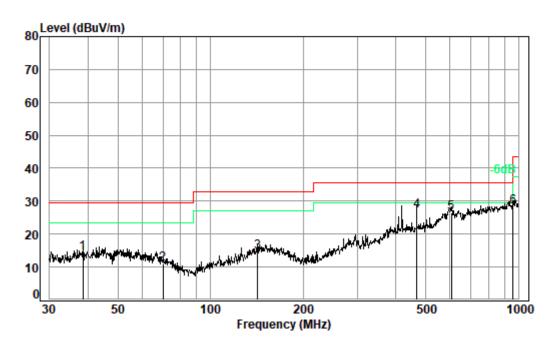
Report No.: SZEM200600524103

Page: 36 of 56

30MHz~1GHz

QP value:

Mode: c; Polarization: Horizontal;



Condition: 10m HORIZONTAL

Job No. : 05241CR

Test Mode: c

		Ant	Preamp	Cable	Read		Limit	0ver	
	Freq	Factor	Factor	Loss	Level	Level	Line	Limit	Remark
_	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	38.481	20.00	32.42	0.91	25.82	14.31	29.50	-15.19	QP
2	70.090	17.57	32.39	1.08	24.61	10.87	29.50	-18.63	QP
3	142.324	19.82	32.30	1.45	25.67	14.64	33.00	-18.36	QP
4	467.235	23.67	32.35	2.78	32.94	27.04	35.60	-8.56	QP
5	605.659	26.33	32.04	3.16	28.89	26.34	35.60	-9.26	QP
6 pp	958.794	29.89	31.21	3.52	25.97	28.17	35.60	-7.43	OP



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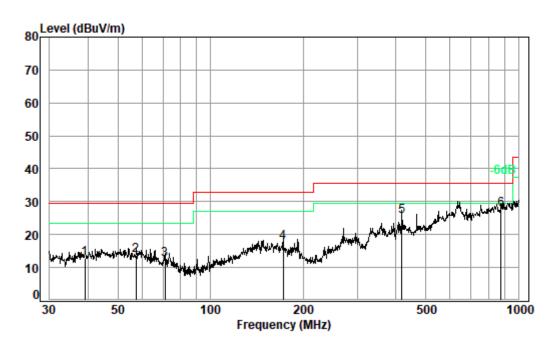
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Report No.: SZEM200600524103

Page: 37 of 56

Mode :c; Polarization: Vertical



Condition: 10m VERTICAL

Job No. : 05241CR

Test Mode: c

		Ant	Preamp	Cable	Read		Limit	0ver	
	Freq	Factor	Factor	Loss	Level	Level	Line	Limit	Remark
_									
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	39.162	20.00	32.42	0.91	24.22	12./1	29.50	-16./9	QР
2	57.392	19.64	32.43	1.03	25.53	13.77	29.50	-15.73	QP
3	71.080	17.22	32.38	1.09	26.49	12.42	29.50	-17.08	QP
4	171.995	19.03	32.29	1.53	29.26	17.53	33.00	-15.47	QP
5	417.641	22.23	32.16	2.61	32.84	25.52	35.60	-10.08	QP
	878.322	29.08	31.60	3.41	26.67	27.56	35.60	-8.04	OP



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Report No.: SZEM200600524103

Page: 38 of 56

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:

Mode c:

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
39.162	12.71	4.32	14.40	23.17	40.00	-16.83	V
57.392	13.77	4.88	16.27	24.23	40.00	-15.77	V
71.08	12.42	4.18	13.93	22.88	40.00	-17.12	V
171.995	17.53	7.52	25.08	27.99	43.50	-15.51	V
417.641	25.52	18.88	62.93	35.98	46.00	-10.02	V
878.322	27.56	23.88	79.59	38.02	46.00	-7.98	V
38.481	14.31	5.19	17.31	24.77	40.00	-15.23	Н
70.09	10.87	3.50	11.65	21.33	40.00	-18.67	Н
142.324	14.64	5.40	17.98	25.10	43.50	-18.40	Н
467.235	27.04	22.49	74.97	37.50	46.00	-8.50	Н
605.659	26.34	20.75	69.16	36.80	46.00	-9.20	Н
958.794	28.17	25.62	85.38	38.63	46.00	-7.37	Н



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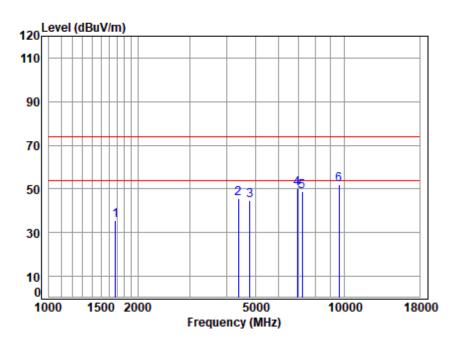


Report No.: SZEM200600524103

Page: 39 of 56

Above 1GHz

Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 05241CR Mode : 2402 TX RSE

Note : BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1677.621	3.41	26.58	40.62	46.32	35.69	74.00	-38.31	peak
2	4392.376	6.66	33.42	42.47	47.95	45.56	74.00	-28.44	peak
3	4804.000	7.10	33.97	42.77	46.19	44.49	74.00	-29.51	peak
4	6934.778	8.51	35.86	41.72	47.58	50.23	74.00	-23.77	peak
5	7206.000	8.74	36.07	41.58	45.47	48.70	74.00	-25.30	peak
6	9608,000	10.81	37.67	38.57	42.08	51.99	74.00	-22.01	neak



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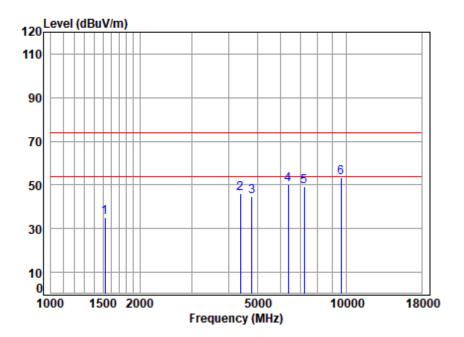
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Report No.: SZEM200600524103

Page: 40 of 56

Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 05241CR Mode : 2402 TX RSE

Note : BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1525.000	3.28	25.91	40.52	46.25	34.92	74.00	-39.08	peak
2	4379.699	6.65	33.39	42.46	48.53	46.11	74.00	-27.89	peak
3	4804.000	7.10	33.97	42.77	46.60	44.90	74.00	-29.10	peak
4	6377.195	8.28	35.48	42.02	48.63	50.37	74.00	-23.63	peak
5	7206.000	8.74	36.07	41.58	46.11	49.34	74.00	-24.66	peak
6	9608.000	10.81	37.67	38.57	43.46	53.37	74.00	-20.63	neak



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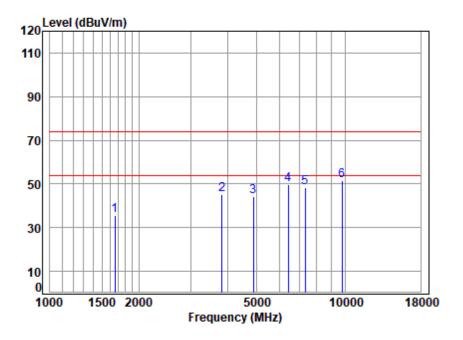
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Report No.: SZEM200600524103

Page: 41 of 56

Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 05241CR Mode : 2440 TX RSE

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	1658.337	3.40	26.50	40.61	46.15	35.44	74.00	-38.56	peak
2	3834.438	6.04	32.38	42.02	48.89	45.29	74.00	-28.71	peak
3	4880.000	7.18	34.06	42.82	45.86	44.28	74.00	-29.72	peak
4	6414.167	8.28	35.52	42.00	47.72	49.52	74.00	-24.48	peak
5	7323.000	8.85	36.16	41.52	44.90	48.39	74.00	-25.61	peak
6	9764.000	10.76	37.76	38.34	41.18	51.36	74.00	-22.64	peak



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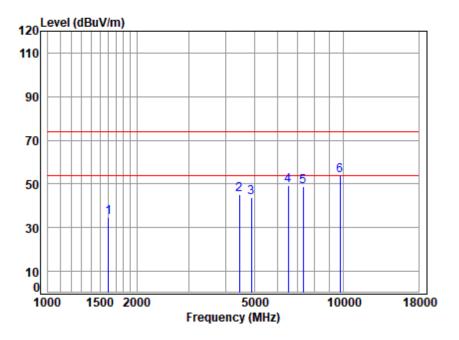
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Page: 42 of 56

Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:middle



Site : chamber Condition: 3m VERTICAL

Job No : 05241CR Mode : 2440 TX RSE

Note : BLE

000		_							
		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	1606.441	3.35	26.28	40.57	45.76	34.82	74.00	-39.18	peak
2	4456.315	6.72	33.53	42.52	47.52	45.25	74.00	-28.75	peak
3	4880.000	7.18	34.06	42.82	45.31	43.73	74.00	-30.27	peak
4	6526.373	8.29	35.62	41.94	47.37	49.34	74.00	-24.66	peak
5	7323.000	8.85	36.16	41.52	45.11	48.60	74.00	-25.40	peak
6	9764.000	10.76	37.76	38.34	43.65	53.83	74.00	-20.17	peak



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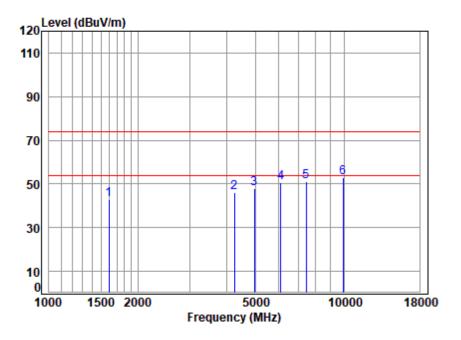
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Page: 43 of 56

Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 05241CR Mode : 2480 TX SE

Note : BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.181	3.35	26.24	40.57	53.65	42.67	74.00	-31.33	peak
2	4254.921	6.53	33.17	42.36	48.95	46.29	74.00	-27.71	peak
3	4960.000	7.26	34.15	42.87	49.23	47.77	74.00	-26.23	peak
4	6088.991	8.26	35.19	42.19	49.28	50.54	74.00	-23.46	peak
5	7440.000	8.96	36.25	41.46	47.49	51.24	74.00	-22.76	peak
6	9920.000	10.71	37.85	38.12	42.53	52.97	74.00	-21.03	neak



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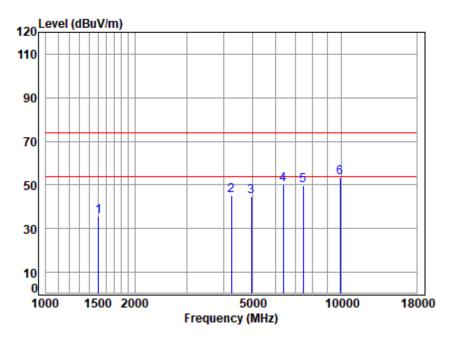
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Page: 44 of 56

Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Site : chamber

Condition: 3m VERTICAL Job No : 05241CR

Mode : 2480 TX RSE

 RLF Note

ote	. DLI	-								
		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	1507.470	3.27	25.83	40.51	46.80	35.39	74.00	-38.61	peak	
2	4242.641	6.52	33.15	42.35	47.88	45.20	74.00	-28.80	peak	
3	4960.000	7.26	34.15	42.87	46.36	44.90	74.00	-29.10	peak	
4	6358.789	8.27	35.46	42.03	48.29	49.99	74.00	-24.01	peak	
5	7440.000	8.96	36.25	41.46	46.20	49.95	74.00	-24.05	peak	
6	9920.000	10.71	37.85	38.12	43.11	53.55	74.00	-20.45	peak	



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Page: 45 of 56

8 **Photographs**

8.1 Test Setup

Please refer to setup photos.

8.2 EUT Constructional Details (EUT Photos)

Please refer to external and internal photos for details.



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Page: 46 of 56

Appendix 9

Appendix 15.247 9.1

1. Bandwidth

1.1 Test Result

Toot Mode	Frequency	TV Turno	ANT No	6dB Bandwidth	Verdict
Test Mode	(MHz)	TX Type	ANT No.	Test Result (MHz)	verdict
	2402	SISO	1	0.717	PASS
1M	2440	SISO	1	0.726	PASS
	2480	SISO	1	0.731	PASS



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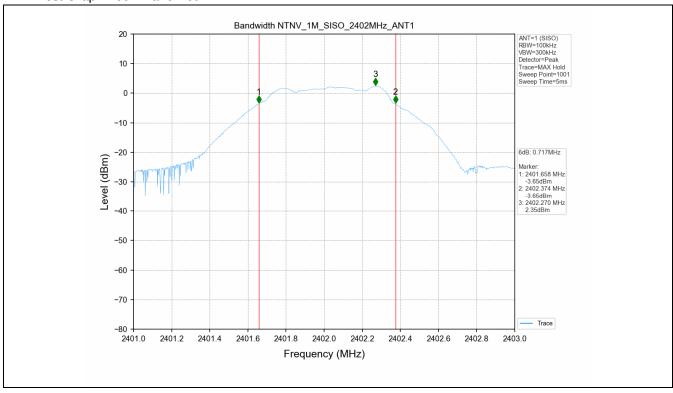
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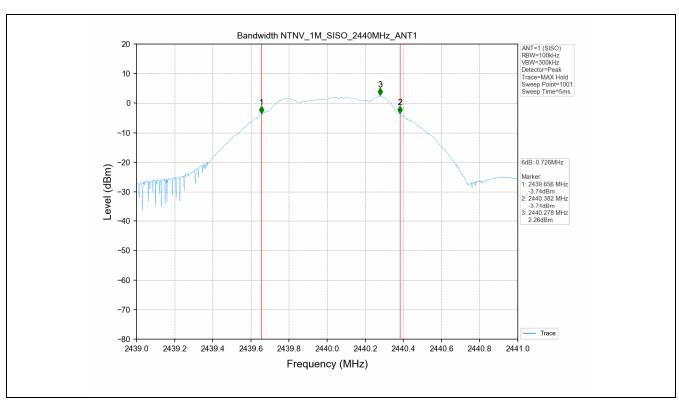


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1.2 Test Graph - 6dB Bandwidth







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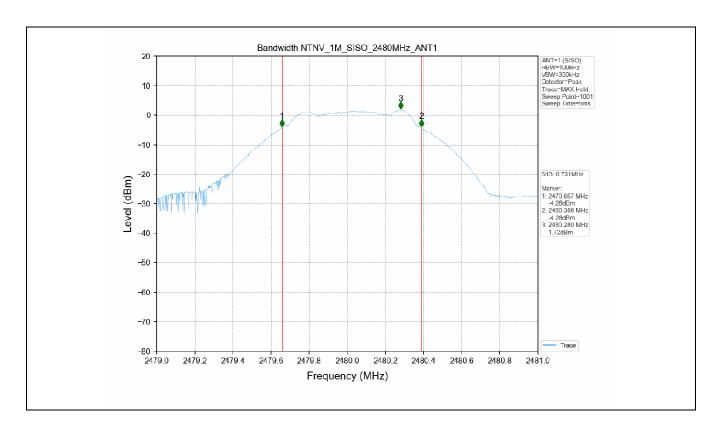
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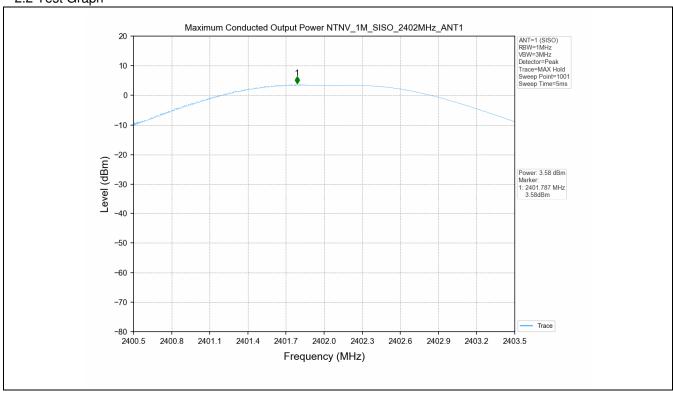
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2. Maximum Conducted Output Power

2.1 Test Result

Test Mode	Frequency (MHz)	Tx Type Measured Peak Output Power (dBm) Ant 1		Limits (dBm)	Verdict
	2402	SISO	3.58	30	PASS
1M	2440	SISO	3.48	30	PASS
	2480	SISO	3.04	30	PASS

2.2 Test Graph





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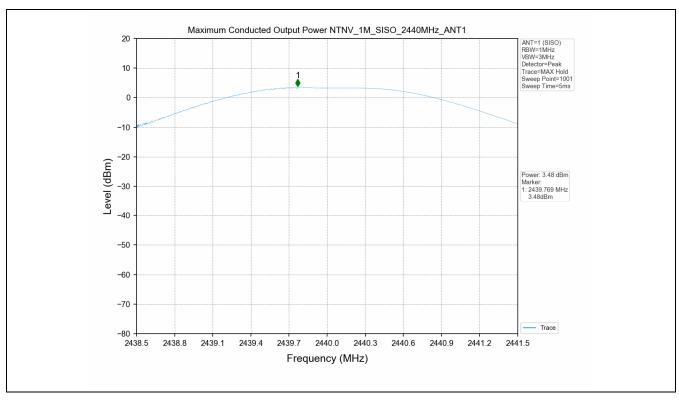
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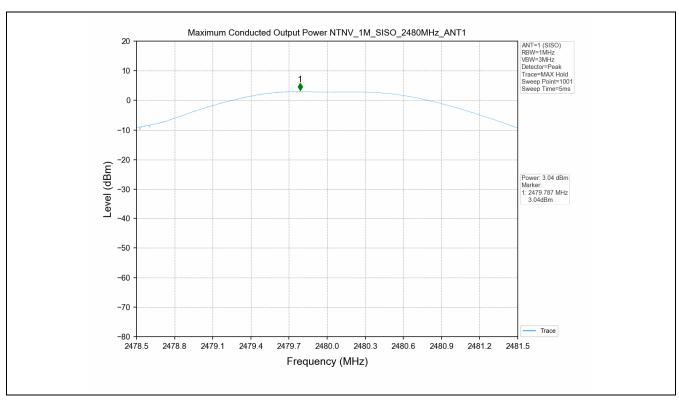
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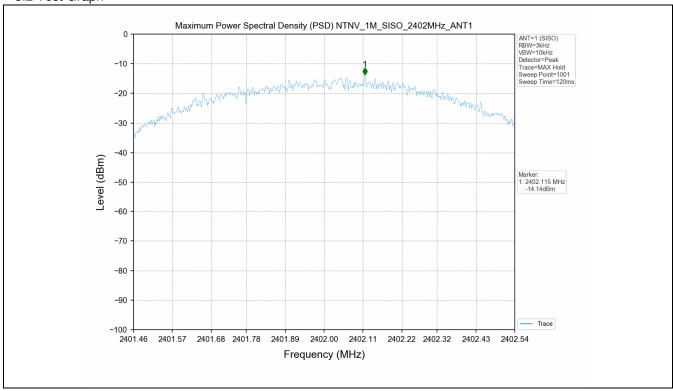
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3. Maximum Power Spectral Density (PSD)

3.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Maximum Power Spectral Density (dBm/3KHz) Ant 1	Limits (dBm/3kHz)	Verdict
	2402	SISO	-14.14	≤8	PASS
1M	2440	SISO	-12.52	≤8	PASS
	2480	SISO	-13.10	≤8	PASS

3.2 Test Graph





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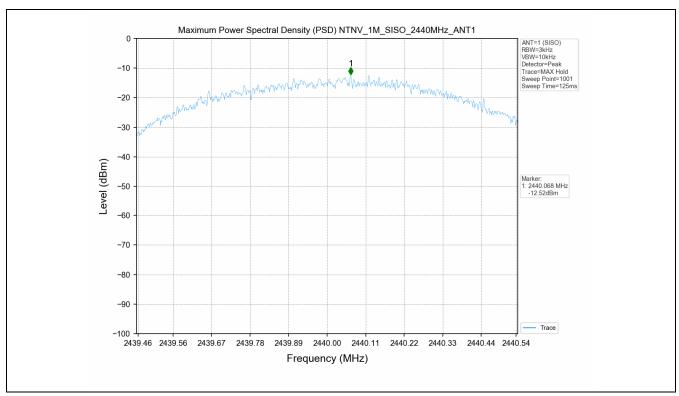
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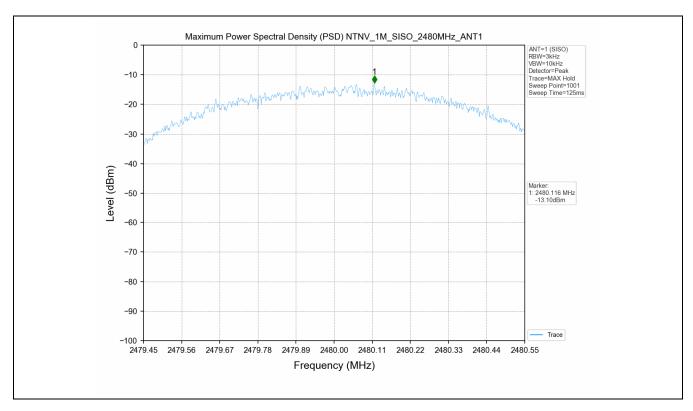
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Page: 53 of 56

4. Unwanted Emissions in Non-restricted Frequency Bands

4.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
	2402	SISO	1	Refer to test graph	-17.65	PASS
1 M	2440	SISO	1	Refer to test graph	-17.65	PASS
	2480	SISO	1	Refer to test graph	-17.65	PASS



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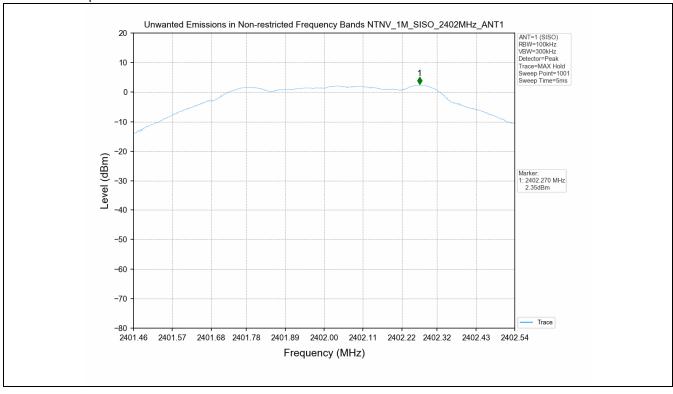
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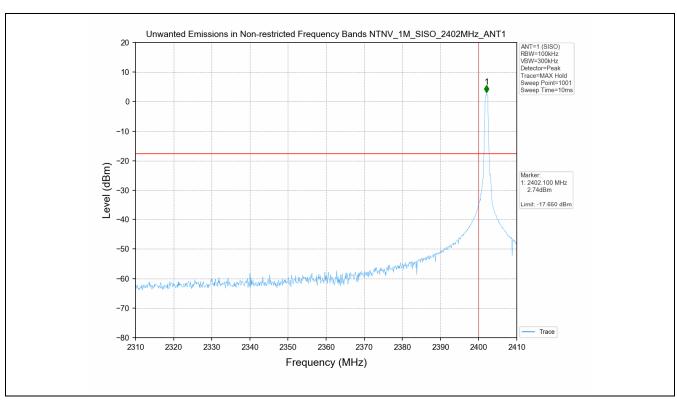


Report No.: SZEM200600524103

54 of 56 Page:

4.2 Test Graph







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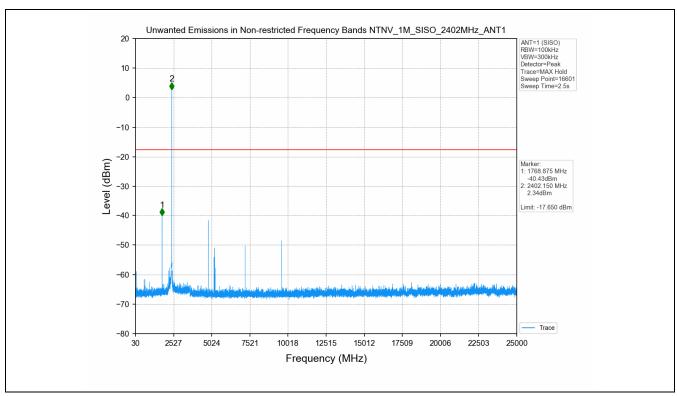
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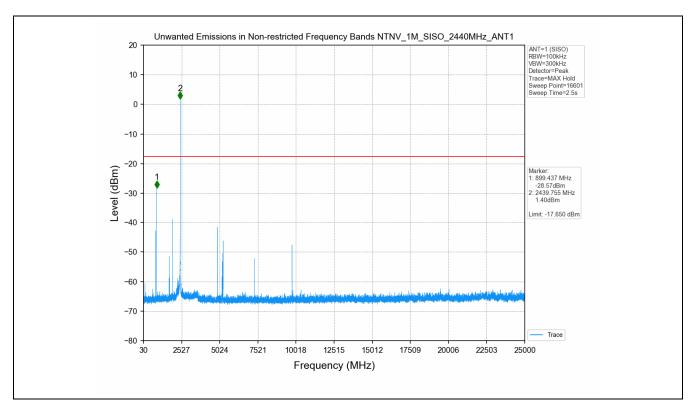
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Page: 55 of 56







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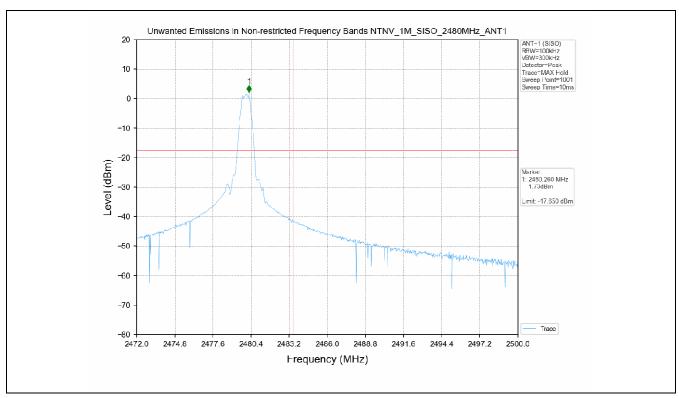
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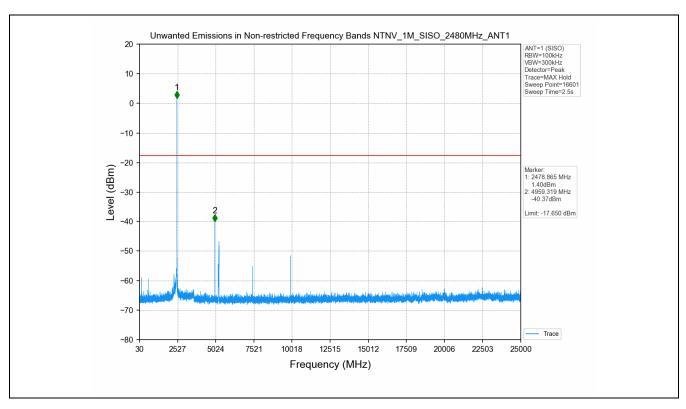
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Page: 56 of 56





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