

Report No.: KSCR220300041302

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TEST REPORT

Application No.: KSCR2203000413AT FCC ID: 2AXVM-TP4X-3XXX IC: 26572-HMTP4X

Applicant: Hangzhou Microimage Software Co., Ltd.

Address of Applicant: Room 313, Unit B, Building 2, 399 Danfeng Road, Xixing Subdistrict,

Binjiang District, Hangzhou, Zhejiang

Manufacturer: Hangzhou Microimage Software Co., Ltd.

Address of Manufacturer: Room 313, Unit B, Building 2, 399 Danfeng Road, Xixing Subdistrict,

Binjiang District, Hangzhou, Zhejiang

Factory: Hangzhou Microimage Intelligent Technology Co., Ltd.

Address of Factory: Floor 2, Building A1, 299 Qiushi Road, Tonglu Economic Development

Zone, Tonglu County, Hangzhou City, Zhejiang Province

Equipment Under Test (EUT):

EUT Name: Pocket Thermography Camera

Model No.: HM-TP42-3AQF/W-Pocket2,HM-TP41-3AQF-Pocket1,

HM-TP41-3AQF/W-Pocket1¤

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

Trade Mark: HIKMICRO

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

RSS-247 Issue 2, February 2017

RSS-Gen Issue 5 Amendment 2 (February 2021)

Date of Receipt: 2022-03-30

Date of Test: 2022-04-14 to 2022-04-14

Date of Issue: 2022-05-12

Test Result: Pass*

Eric Lin EMC Laboratory Manager

Jose Sin



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



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	Revision Record					
Version	Chapter	Date	Modifier	Remark		
01		2022-05-12		Original		

Authorized for issue by:		
	Tonnie Tang	
	Tommie Tang/Project Engineer	-
	Eric Li	
	Eric Lin/Reviewer	-



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Test Summary

Radio Spectrum Technical Requirement					
Item	FCC Requirement	IC Requirement	Method	Result	
Antenna Requirement	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	RSS-Gen Clause 6.8	N/A	Customer Declaration	
Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence	47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)	RSS-247 Section 5.1(a)	N/A	Pass	

N/A: Not applicable

Radio Spectrum Matter Part						
Item	FCC Requirement	IC Requirement	Method	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		
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247(b)(1)	RSS-247 Section 5.4(b)	ANSI C63.10 (2013) Section 7.8.5	Pass		
20dB Bandwidth	47 CFR Part 15, Subpart C 15.247(a)(1)	RSS-247 Section 5.1(a)	ANSI C63.10 (2013) Section 7.8.7	Pass		
Carrier Frequencies Separation	47 CFR Part 15, Subpart C 15.247a(1)	RSS-247 Section 5.1(b)	ANSI C63.10 (2013) Section 7.8.2	Pass		
Hopping Channel Number	47 CFR Part 15, Subpart C 15.247a(1)(iii)	RSS-247 Section 5.1(d)	ANSI C63.10 (2013) Section 7.8.3	Pass		
Dwell Time	47 CFR Part 15, Subpart C 15.247a(1)(iii)	RSS-247 Section 5.1(d)	ANSI C63.10 (2013) Section 7.8.4	Pass		
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247(d)	RSS-247 Section 5.5	ANSI C63.10 (2013) Section 7.8.6	Pass		
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247(d)	RSS-247 Section 5.5	ANSI C63.10 (2013) Section 7.8.8	Pass		
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.205 & 15.209	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.10.5	Pass		



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Radiated Spurious Emissions Below 1GHz	47 CFR Part 15, Subpart C 15.205 & 15.209	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.4,6.5,6.6	Pass
Radiated Spurious Emissions Above 1GHz	47 CFR Part 15, Subpart C 15.205 & 15.209	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.4,6.5,6.6	Pass
99% Bandwidth	-	RSS-Gen Section 6.7	ANSI C63.10 Section 6.9.3	Pass

Declaration of EUT Family Grouping:

Note: There are series models mentioned in this report, and they are the identical in electrical and electronic characters. Only the model HM-TP42-3AQF/W-Pocket2 was tested since their differences were the model number and silk.



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General Information

4.1 Details of E.U.T.

Power supply:	DC 3.85V by rechargeable Li-on polymer battery or DC 5V,2A by adapter		
	Battery Model: HM-3821DC		
	Rated Voltage: 3.85V		
	Rated Capacity: 2100mAh/8.085Wh		
	Nominal Capacity: 2150mAh/8.2775Wh		
	Limited Charge Voltage: 4.4V		
Operation Frequency:	2402MHz to 2480MHz		
Bluetooth Version:	V5.0 Dual mode		
Modulation Type:	GFSK, pi/4DQPSK, 8DPSK		
Data Rate:	1/2/3Mbps		
Number of Channels:	79		
Channel Spacing:	1MHz		
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)		
Antenna Type:	FPC antenna		
Antenna Gain:	2.88dBi (Provided by manufacturer)		
S/N:	J26470855		
Firmware Version:	V5.5.24_220301		

4.2 Power level setting using in test:

Channel	DH5	2DH5	3DH5
0	Default	Default	Default
39	Default	Default	Default
78	Default	Default	Default

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.	
SecureCRT	VanDyke	V 6.2.0	1	
Notebook	LENOVO	K27	EB24537645	
Serial port adapter plate	1	1	/	
Switching adapter	SHENZHEN HONOR ELECTRONIC CO., LTD	ADS-12EA-05 05010E	/	



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4.4 Measurement Uncertainty

No.	ltem	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 ⁻⁸
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
0	DE Dadiatad Davisa	5.2dB (Below 1GHz)
8	RF Radiated Power	5.9dB (Above 1GHz)
		4.2dB (Below 30MHz)
	Radiated Spurious Emission Test	4.5dB (30MHz-1GHz)
9		5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
10	Temperature Test	1°C
11	Humidity Test	3%
12	Supply Voltages 1.5%	
13	Time	3%

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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4.5 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

4.6 Test Facility

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

• CNAS (No. CNAS L4354)

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 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. 2541.01)

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• FCC (Designation Number: CN1172)

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory.

Designation Number: CN1172.

• ISED (CAB identifier: CN0072)

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 2324E
• VCCI (Member No.: 1938)

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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5 Equipment List

Item	Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal. Due Date	
Con	Conducted Emission at Mains Terminals (150kHz-30MHz)						
1	EMI Test Receive	R&S	ESCI	100781	01/22/2022	01/21/2023	
2	LISN	R&S	ENV216	101604	10/12/2021	10/11/2022	
3	LISN	Schwarzbeck	NNLK 8129	8129-143	10/12/2021	10/11/2022	
4	Pulse Limiter	R&S	ESH3-Z2	100609	01/22/2022	01/21/2023	
5	CE test Cable	Thermax	1	14	10/16/2021	10/15/2022	
6	Test Software	Faratronic	EZ-EMC	CCS-03A1	N.C.R	N.C.R	
RF (Conducted Test						
1	Spectrum Analyzer	Agilent	E4446A	MY44020154	04/16/2021	04/15/2022	
2	Spectrum Analyzer	Keysight	N9020A	MY55370209	10/11/2021	10/10/2022	
4	Signal Generator	Agilent	N5182A	MY50142015	08/27/2021	08/26/2022	
5	Spectrum Analyzer	Keysight	N9030B	MY61330164	01/22/2022	01/21/2023	
6	Vector Signal Generator	R&S	SMW200A	110074	10/12/2021	10/11/2022	
7	Radio Communication Test Station	Anritsu	MT8000A	6262012849	09/23/2021	09/22/2022	
8	Radio Communication Analyzer	Anritsu	MT8821C	6201692222	09/23/2021	09/22/2022	
9	Universal Radio Communication Tester	R&S	CMW500	159275	10/12/2021	10/11/2022	
10	Universal Radio Communication Tester	R&S	CMW500	167239	04/16/2021	04/15/2022	
11	Power Meter	Anritsu	ML2495A	1445010	04/15/2021	04/14/2022	
12	Switcher	CCSRF	FY562	KUS2001M001-3	10/12/2021	10/11/2022	
13	AC Power Source	EXTECH	6605	1570106	N.C.R	N.C.R	
14	DC Power Supply	Aglient	E3632A	MY50340053	N.C.R	N.C.R	
15	6dB Attenuator	Mini-Circuits	NAT-6-2W	15542-1	N.C.R	N.C.R	
16	Power Divider	AISI	IOWOPE2068	PE2068	N.C.R	N.C.R	
17	Filter	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R	
18	Conducted Test Cable	1	RF01-RF04	1	04/15/2021	04/14/2022	
19	Software	BST	TST-PASS	N/A	N/A	N/A	
20	Temp. / Humidity Chamber	TERCHY	MHK-120AK	X30109	04/15/2021	04/14/2022	
21	Thermometer	Anymetre	TH603	CCS007	10/14/2021	10/13/2022	
RF R	adiated Test						
1	Spectrum Analyzer	R&S	FSV40	101493	10/11/2021	10/10/2022	
2	Signal Generator	Agilent	E8257C	MY43321570	10/18/2021	10/17/2022	
3	Loop Antenna	Com-Power	AL-130R	10160008	04/13/2021	04/12/2023	
4	Bilog Antenna	TESEQ	CBL 6112D	35403	06/21/2021	06/20/2023	
5	Bilog Antenna	SCHWARZBECK	VULB9160	9160-3342	04/13/2021	04/12/2023	
6	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	267	10/26/2020	10/25/2022	
7	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	00143290	02/22/2021	02/21/2023	
8	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	BBHA9170171	02/20/2022	02/19/2023	
9	Pre-Amplifier(30MHz~18GHz)	LNA	/	/	04/15/2021	04/14/2022	
10	Amplifier(18~40GHz)	COM-POWER	PAM-840A	461332	10/18/2021	10/17/2022	
11	Low Pass Filter	MICRO-TRONICS	VLFX-950	RV142900829	N.C.R	N.C.R	
12	High Pass Filter	Mini-Circuits	VHF-1200	15542	N.C.R	N.C.R	
13	Filter (5450MHz~5770 MHz)	MICRO-TRONICS	BRC50704-01	2	N.C.R	N.C.R	
14	Filter (5690 MHz~5930 MHz)	MICRO-TRONICS	BRC50705-01	4	N.C.R	N.C.R	



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15	Filter (5150 MHz~5350 MHz)	MICRO-TRONICS	BRC50703-01	2	N.C.R	N.C.R
16	Filter (885 MHz~915 MHz)	MICRO-TRONICS	BRM14698	1	N.C.R	N.C.R
17	Filter (815 MHz~860 MHz)	MICRO-TRONICS	BRM14697	1	N.C.R	N.C.R
18	Filter (1745 MHz \sim 1910 MHz)	MICRO-TRONICS	BRM14700	1	N.C.R	N.C.R
19	Filter (1922 MHz \sim 1977 MHz)	MICRO-TRONICS	BRM50715	1	N.C.R	N.C.R
20	Filter (2550 MHz)	MICRO-TRONICS	HPM13362	5	N.C.R	N.C.R
21	Filter (1532 MHz \sim 1845 MHz)	MICRO-TRONICS	BRM50713	1	N.C.R	N.C.R
22	Filter (2.4GHz)	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
23	RE test cable	1	RE01-RE04	1	04/15/2021	04/14/2022
24	Software	Faratronic	EZ_EMC	N/A	N/A	N/A



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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 FPC antenna on the main PCB and no consideration of replacement. The best case gain of the antenna is 2.88 dBi.

Antenna location: Refer to internal photo.



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6.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence

6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)

6.2.2 Conclusion

Standard Requirement:

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

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

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

Compliance for section 15.247(a)(1):

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

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

Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:

Each frequency used equally on the average by each transmitter.

According to Technical Specification, the receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any transmitters and shift frequencies in synchronization with the transmitted signals.

Compliance for section 15.247(g):

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



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Compliance for section 15.247(h):

According to Technical specification, the system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.

The system is designed not have the ability to coordinated with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.



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7 Radio Spectrum Matter Test Results

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

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

Limit:

Frequency of	Conducted limit(dBµV)					
emission(MHz)	Quasi-peak	Average				
0.15-0.5	66 to 56*	56 to 46*				
0.5-5	56	46				
5-30	60	50				
*Decreases with the logarithm of the frequency.						
Detector: Peak for pre-scan (9k	Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz					

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

7.11.2 100011	7.1.2 Test mode bescription						
Pre-scan / Final test	Mode Code	Description					
Final test	06	Charge + TX_non-Hop mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.					



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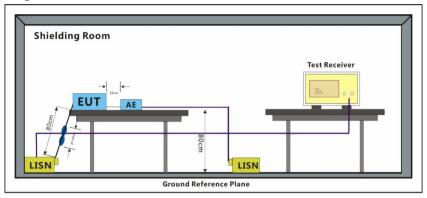
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7.1.3 Test Setup Diagram



7.1.4 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 $50 \text{ohm}/50 \mu\text{H} + 5 \text{ohm}$ 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: Level=Read Level+ Cable Loss+ LISN Factor



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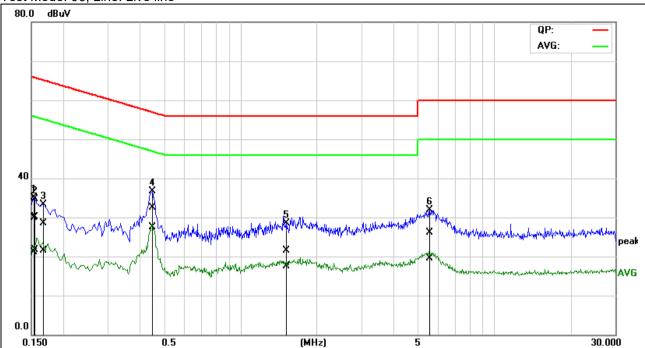
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Test Mode: 06; Line: Live line



No.	Frequen cy	QuasiPe ak reading	Average reading	Correctio n factor	QuasiPe ak result	Average result	QuasiPe ak Iimit	Average limit	QuasiPe ak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1517	10.31	1.65	19.50	29.81	21.15	65.90	55.91	-36.09	-34.76	Pass
2	0.1563	10.54	2.23	19.50	30.04	21.73	65.65	55.66	-35.61	-33.93	Pass
3	0.1680	9.00	1.94	19.50	28.50	21.44	65.05	55.06	-36.55	-33.62	Pass
4*	0.4497	12.90	7.91	19.55	32.45	27.46	56.88	46.88	-24.43	-19.42	Pass
5	1.5180	1.81	-2.12	19.62	21.43	17.50	56.00	46.00	-34.57	-28.50	Pass
6	5.5800	6.16	-0.26	19.85	26.01	19.59	60.00	50.00	-33.99	-30.41	Pass



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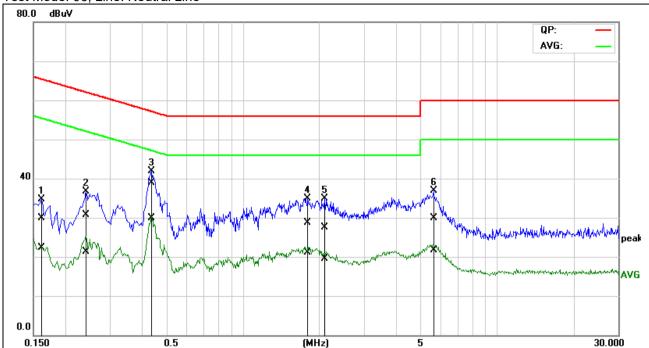
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Test Mode: 06; Line: Neutral Line



No.	Frequenc y	QuasiPe ak reading	Average reading	Correctio n factor	QuasiPe ak result	Average result	QuasiPe ak limit	Average limit	QuasiPe ak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1603	10.49	2.79	19.48	29.97	22.27	65.44	55.45	-35.47	-33.18	Pass
2	0.2425	11.15	1.80	19.49	30.64	21.29	62.01	52.01	-31.37	-30.72	Pass
3*	0.4374	19.36	10.27	19.54	38.90	29.81	57.11	47.11	-18.21	-17.30	Pass
4	1.7873	9.05	1.54	19.64	28.69	21.18	56.00	46.00	-27.31	-24.82	Pass
5	2.0875	7.95	-0.21	19.65	27.60	19.44	56.00	46.00	-28.40	-26.56	Pass
6	5.6476	10.00	1.85	19.85	29.85	21.70	60.00	50.00	-30.15	-28.30	Pass



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7.2 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(1)
Test Method: ANSI C63.10 (2013) Section 7.8.5

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

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	Charge + TX_non-Hop mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.



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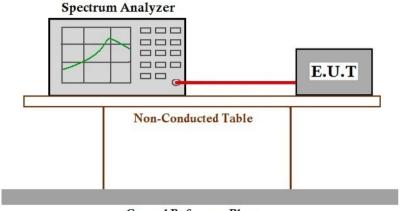
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7.2.3 Test Setup Diagram



Ground Reference Plane

7.2.4 Measurement Procedure and Data

The detailed test data see: Appendix B for KSCR220300041302



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7.3 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247(a)(1) ANSI C63.10 (2013) Section 7.8.7 Test Method:

7.3.1 E.U.T. Operation

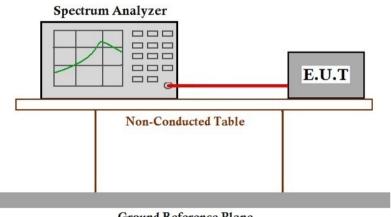
Operating Environment:

Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	Charge + TX_non-Hop mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



Ground Reference Plane

7.3.4 Measurement Procedure and Data

The detailed test data see: Appendix B for KSCR220300041302



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7.4 Carrier Frequencies Separation

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1) ANSI C63.10 (2013) Section 7.8.2 Test Method:

Limit:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

7.4.1 E.U.T. Operation

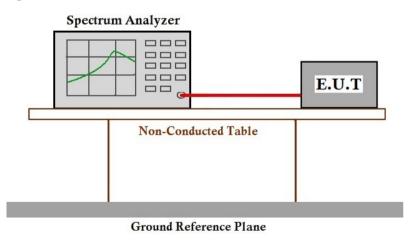
Operating Environment:

Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	Charge + TX_Hop mode_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

The detailed test data see: Appendix B for KSCR220300041302



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7.5 Hopping Channel Number

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(iii)

Test Method: ANSI C63.10 (2013) Section 7.8.3

Limit:

Frequency range(MHz)	Number of hopping channels (minimum)
002 028	50 for 20dB bandwidth <250kHz
902-928	25 for 20dB bandwidth ≥250kHz
2400-2483.5	15
5725-5850	75

7.5.1 E.U.T. Operation

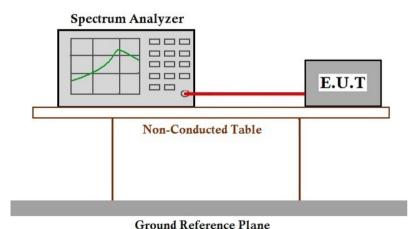
Operating Environment:

Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

	· · · · · · · · · · · · · · · · · · ·					
Pre-scan / Final test	Mode Code	Description				
Final test	07	Charge + TX_Hop mode_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.				

7.5.3 Test Setup Diagram





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7.5.4 Measurement Procedure and Data

The detailed test data see: Appendix B for KSCR220300041302



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7.6 Dwell Time

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(iii)

Test Method: ANSI C63.10 (2013) Section 7.8.4

Limit:

Frequency(MHz)	Limit
002 028	0.4S within a 20S period(20dB bandwidth<250kHz)
902-928	0.4S within a 10S period(20dB bandwidth≥250kHz)
2400 2483 5	0.4S within a period of 0.4S multiplied by the number
2400-2483.5	of hopping channels
5725-5850	0.4S within a 30S period

7.6.1 E.U.T. Operation

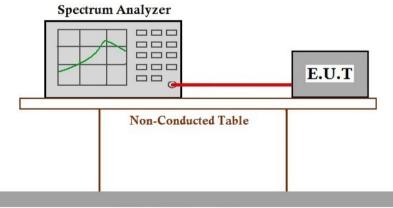
Operating Environment:

Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	Charge + TX_Hop mode_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

7.6.3 Test Setup Diagram



Ground Reference Plane



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7.6.4 Measurement Procedure and Data

The detailed test data see: Appendix B for KSCR220300041302



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7.7 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 7.8.6

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).

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

	7.7.2 Test Mode Description								
Pre-scan / Final test	Mode Code	Description							
Final test	06	Charge + TX_non-Hop mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.							
Final test	07	Charge + TX_Hop mode_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.							



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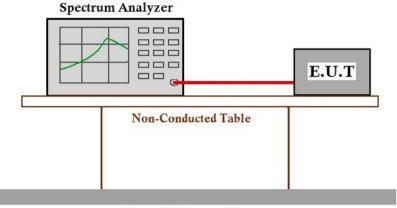
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7.7.3 Test Setup Diagram



Ground Reference Plane

7.7.4 Measurement Procedure and Data

The detailed test data see: Appendix B for KSCR220300041302



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7.8 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 7.8.8

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).

7.8.1 E.U.T. Operation

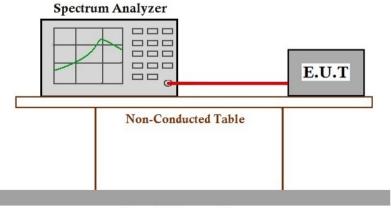
Operating Environment:

Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

7.0.2 Test mode Besonption								
Pre-scan / Final test	Mode Code	Description						
Final test	06	Charge + TX_non-Hop mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.						

7.8.3 Test Setup Diagram



Ground Reference Plane



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7.8.4 Measurement Procedure and Data

The detailed test data see: Appendix B for KSCR220300041302



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7.9 Radiated Emissions which fall in the restricted bands

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

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

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.

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

7.9.2 Test Mode Description

	1012 1001 111040 20001 [01011								
Pre-scan / Final test	Mode Code	Description							
Final test	06	Charge + TX_non-Hop mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.							



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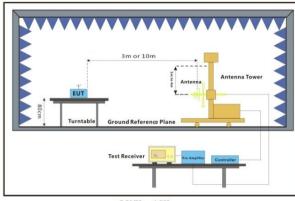
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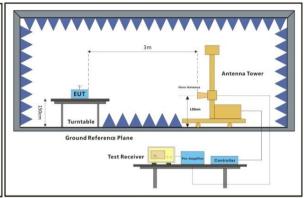


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7.9.3 Test Setup Diagram





30MHz-1GHz Above 1GHz

7.9.4 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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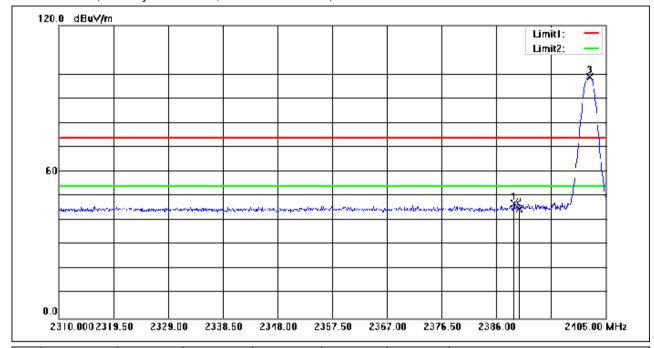
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Test Mode: 06; Polarity: Horizontal; Modulation: GFSK; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2389.135	61.07	-14.01	47.06	74.00	-26.94	peak
2	2390.000	58.90	-14.01	44.89	74.00	-29.11	peak
3	2402.245	112.77	-13.97	98.80	74.00	24.80	peak



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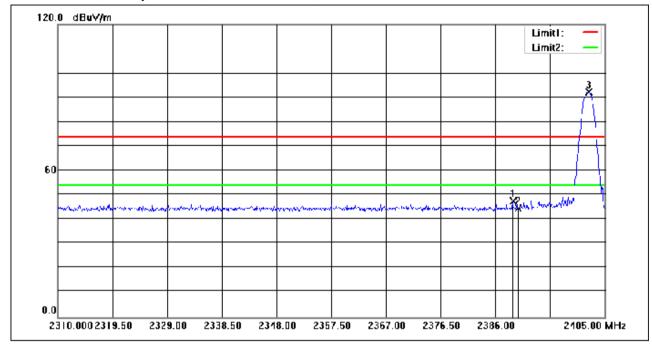
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Test Mode: 06; Polarity: Vertical; Modulation: GFSK; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2389.040	61.61	-14.01	47.60	74.00	-26.40	peak
2	2390.000	58.67	-14.01	44.66	74.00	-29.34	peak
3	2402.245	106.16	-13.97	92.19	74.00	18.19	peak



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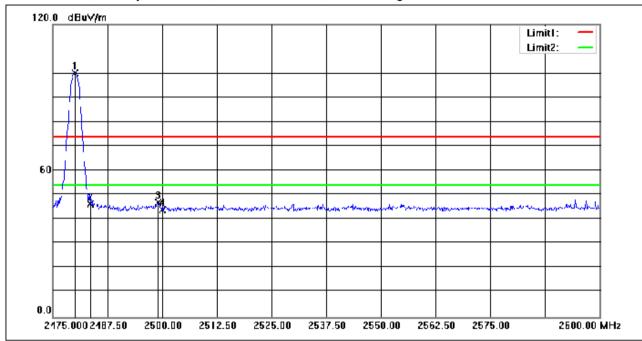
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Test Mode: 06; Polarity: Horizontal; Modulation: GFSK; Channel: High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2480.125	113.69	-13.71	99.98	74.00	25.98	peak
2	2483.500	60.07	-13.71	46.36	74.00	-27.64	peak
3	2499.125	60.72	-13.66	47.06	74.00	-26.94	peak
4	2500.000	57.47	-13.64	43.83	74.00	-30.17	peak



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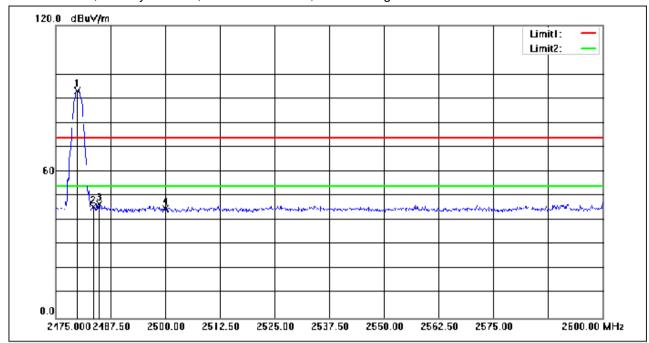
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Test Mode: 06; Polarity: Vertical; Modulation: GFSK; Channel: High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2479.875	107.01	-13.71	93.30	74.00	19.30	peak
2	2483.500	59.12	-13.71	45.41	74.00	-28.59	peak
3	2484.875	60.36	-13.70	46.66	74.00	-27.34	peak
4	2500.000	58.56	-13.64	44.92	74.00	-29.08	peak



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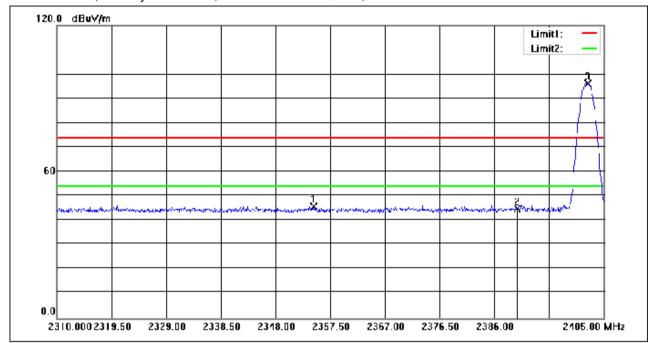
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Test Mode: 06; Polarity: Horizontal; Modulation:π/4 DQPSK; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2354.650	59.97	-14.12	45.85	74.00	-28.15	peak
2	2390.000	58.77	-14.01	44.76	74.00	-29.24	peak
3	2402.245	110.17	-13.97	96.20	74.00	22.20	peak



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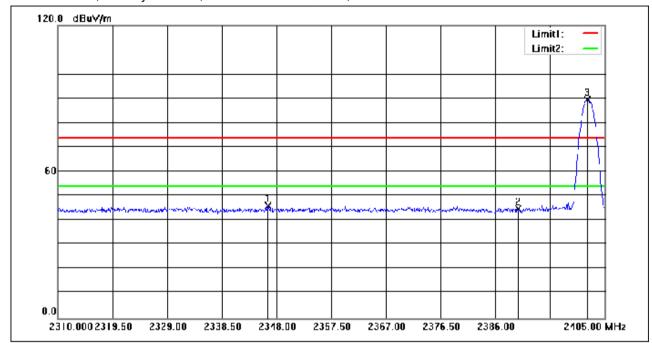
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Test Mode: 06; Polarity: Vertical; Modulation:π/4 DQPSK; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2346.575	60.25	-14.14	46.11	74.00	-27.89	peak
2	2390.000	58.72	-14.01	44.71	74.00	-29.29	peak
3	2402.055	103.58	-13.97	89.61	74.00	15.61	peak



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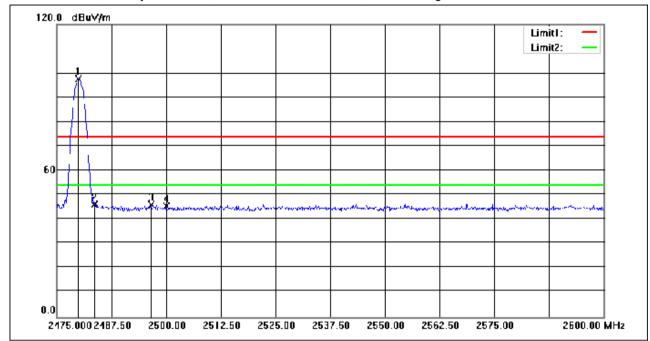
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Test Mode: 06; Polarity: Horizontal; Modulation:π/4 DQPSK; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2479.875	111.25	-13.71	97.54	74.00	23.54	peak
2	2483.500	59.69	-13.71	45.98	74.00	-28.02	peak
3	2496.500	59.73	-13.66	46.07	74.00	-27.93	peak
4	2500.000	59.06	-13.64	45.42	74.00	-28.58	peak



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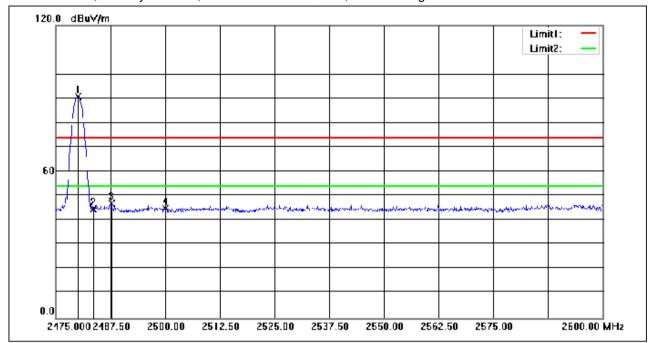
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Test Mode: 06; Polarity: Vertical; Modulation:π/4 DQPSK; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2480.125	104.43	-13.71	90.72	74.00	16.72	peak
2	2483.500	58.14	-13.71	44.43	74.00	-29.57	peak
3	2487.750	60.58	-13.70	46.88	74.00	-27.12	peak
4	2500.000	58.38	-13.64	44.74	74.00	-29.26	peak



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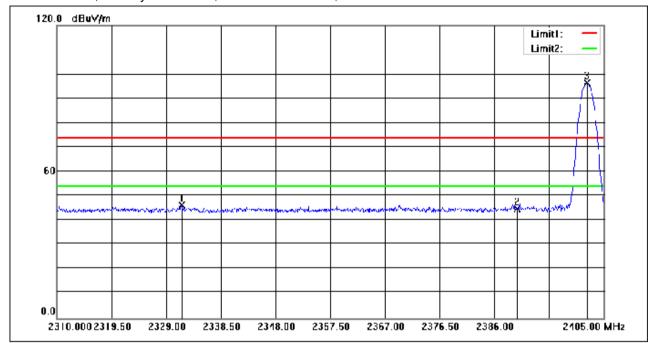
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Test Mode: 06; Polarity: Horizontal; Modulation:8DPSK; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2331.660	60.61	-14.19	46.42	74.00	-27.58	peak
2	2390.000	58.89	-14.01	44.88	74.00	-29.12	peak
3	2402.150	110.55	-13.97	96.58	74.00	22.58	peak



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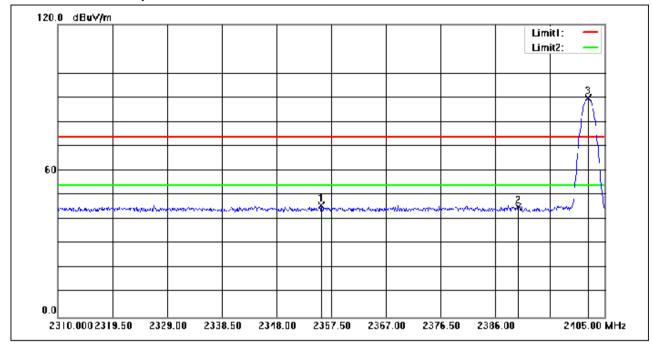
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Test Mode: 06; Polarity: Vertical; Modulation:8DPSK; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2355.790	60.02	-14.12	45.90	74.00	-28.10	peak
2	2390.000	59.09	-14.01	45.08	74.00	-28.92	peak
3	2402.150	103.91	-13.97	89.94	74.00	15.94	peak



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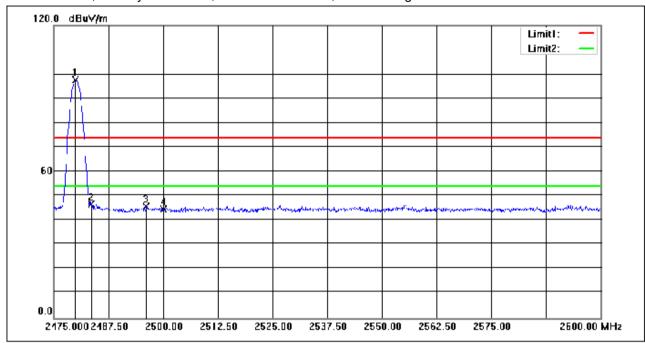
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Test Mode: 06; Polarity: Horizontal; Modulation:8DPSK; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2479.875	111.49	-13.71	97.78	74.00	23.78	peak
2	2483.500	60.40	-13.71	46.69	74.00	-27.31	peak
3	2496.125	59.46	-13.66	45.80	74.00	-28.20	peak
4	2500.000	58.11	-13.64	44.47	74.00	-29.53	peak



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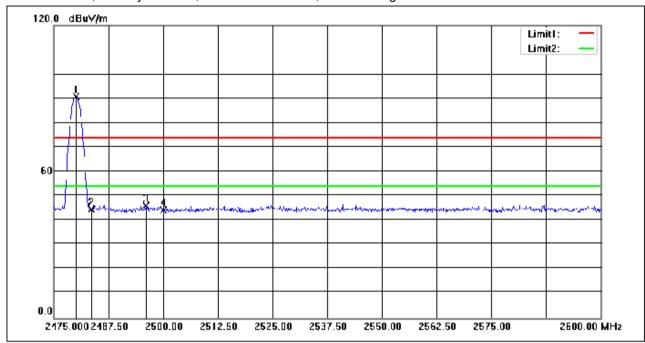
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Test Mode: 06; Polarity: Vertical; Modulation:8DPSK; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2480.000	104.59	-13.71	90.88	74.00	16.88	peak
2	2483.500	58.35	-13.71	44.64	74.00	-29.36	peak
3	2496.000	59.71	-13.66	46.05	74.00	-27.95	peak
4	2500.000	57.93	-13.64	44.29	74.00	-29.71	peak



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7.10 Radiated Spurious Emissions Below 1GHz

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

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

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
960-1000	500	3

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	Charge + TX_non-Hop mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.



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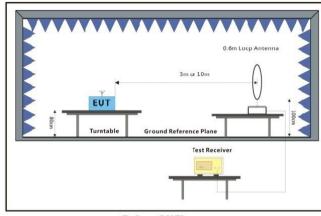
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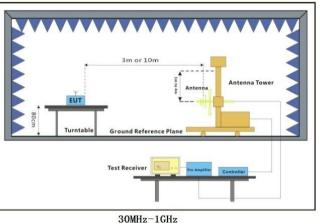


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7.10.3 Test Setup Diagram





Below 30MHz

7.10.4 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. 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.
- c. 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.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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 quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 9kHz to 30MHz, the disturbance 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.
- 3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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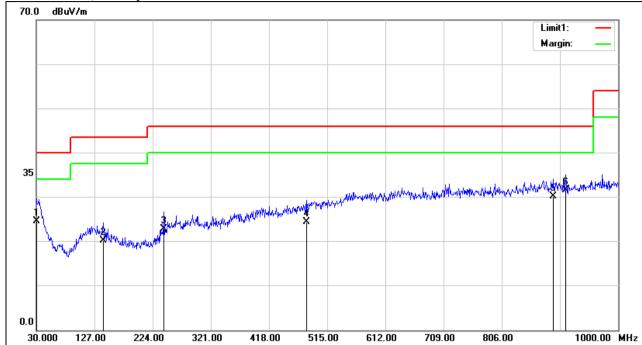
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Test Mode: 06; Polarity: Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	30.0000	-0.65	25.25	24.60	40.00	-15.40	100	126	QP
2	141.5500	1.82	18.38	20.20	43.50	-23.30	100	95	QP
3	242.4300	3.74	19.03	22.77	46.00	-23.23	100	52	QP
4	480.0800	-0.80	25.18	24.38	46.00	-21.62	100	163	QP
5	891.3600	27.72	2.39	30.11	46.00	-15.89	100	295	QP
6	912.7000	29.02	2.50	31.52	46.00	-14.48	100	253	QP



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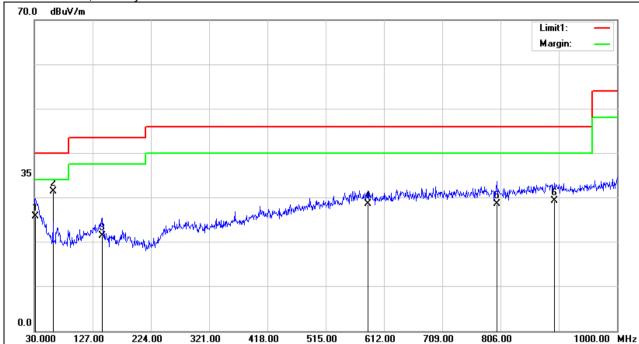
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Test Mode: 06; Polarity: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	31.9400	0.62	25.16	25.78	40.00	-14.22	100	350	QP
2	61.0400	16.63	14.74	31.37	40.00	-8.63	100	29	QP
3	143.4900	3.20	18.19	21.39	43.50	-22.11	100	277	QP
4	584.8400	1.51	27.03	28.54	46.00	-17.46	100	310	QP
5	800.1800	26.31	2.25	28.56	46.00	-17.44	100	229	QP
6	896.2100	26.94	2.43	29.37	46.00	-16.63	100	61	QP



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7.11 Radiated Spurious Emissions Above 1GHz

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

Test Method: ANSI C63.10 (2013) Section 6.6

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

7.11.1 E.U.T. Operation

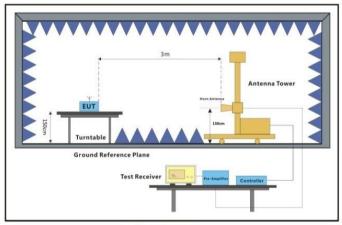
Operating Environment:

Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	Charge + TX_non-Hop mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

7.11.3 Test Setup Diagram



Above 1GHz



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7.11.4 Measurement Procedure and Data

- a. 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.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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 or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 1GHz to 25GHz, the disturbance above 18GHz 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.
- 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. 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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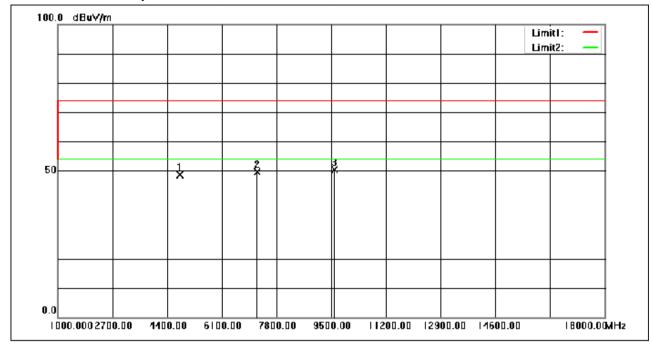
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Test Mode: 06; Polarity: Horizontal; Modulation:GFSK; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4804.000	57.46	-8.86	48.60	74.00	-25.40	peak
2	7206.000	55.41	-5.89	49.52	74.00	-24.48	peak
3	9608.000	51.69	-1.26	50.43	74.00	-23.57	peak



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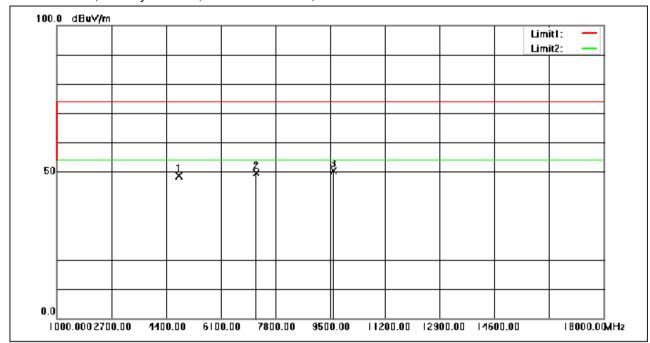
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Test Mode: 06; Polarity: Vertical; Modulation: GFSK; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4804.000	57.58	-8.86	48.72	74.00	-25.28	peak
2	7206.000	55.47	-5.89	49.58	74.00	-24.42	peak
3	9608.000	51.72	-1.26	50.46	74.00	-23.54	peak



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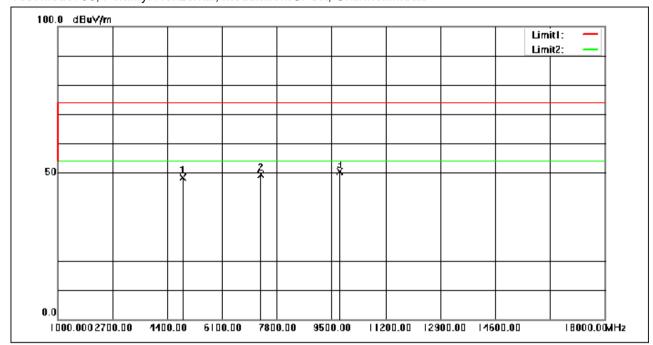
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Test Mode: 06; Polarity: Horizontal; Modulation: GFSK; Channel: middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4882.000	56.97	-8.58	48.39	74.00	-25.61	peak
2	7323.000	55.17	-5.77	49.40	74.00	-24.60	peak
3	9764.000	51.84	-1.46	50.38	74.00	-23.62	peak



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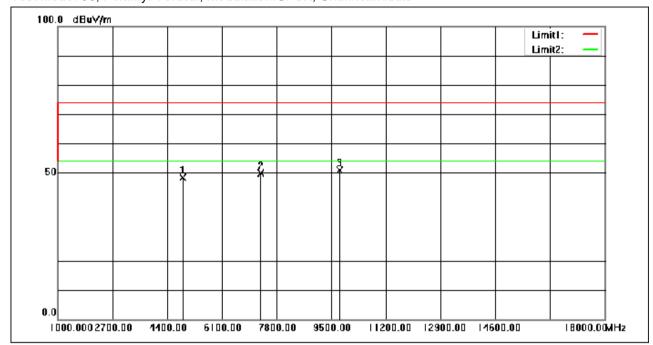
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Test Mode: 06; Polarity: Vertical; Modulation:GFSK; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4882.000	57.02	-8.58	48.44	74.00	-25.56	peak
2	7323.000	55.56	-5.77	49.79	74.00	-24.21	peak
3	9764.000	52.24	-1.46	50.78	74.00	-23.22	peak



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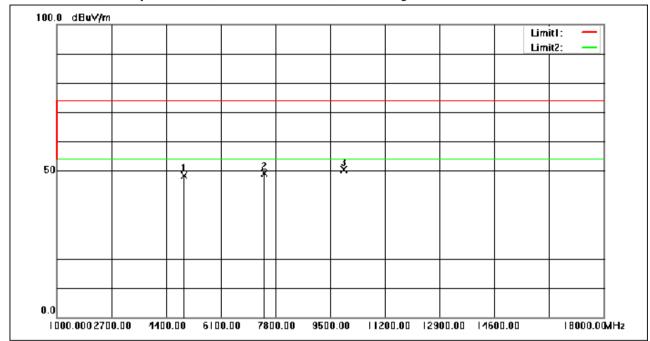
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Test Mode: 06; Polarity: Horizontal; Modulation: GFSK; Channel: High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4960.000	56.77	-8.32	48.45	74.00	-25.55	peak
2	7440.000	54.72	-5.63	49.09	74.00	-24.91	peak
3	9920.000	51.34	-0.94	50.40	74.00	-23.60	peak



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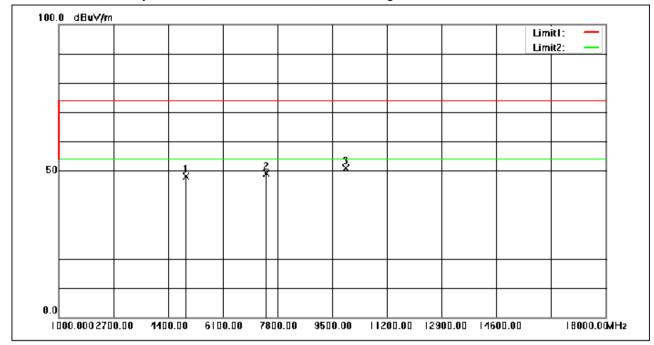
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Test Mode: 06; Polarity: Vertical; Modulation: GFSK; Channel: High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4960.000	56.33	-8.32	48.01	74.00	-25.99	peak
2	7440.000	54.71	-5.63	49.08	74.00	-24.92	peak
3	9920.000	51.82	-0.94	50.88	74.00	-23.12	peak



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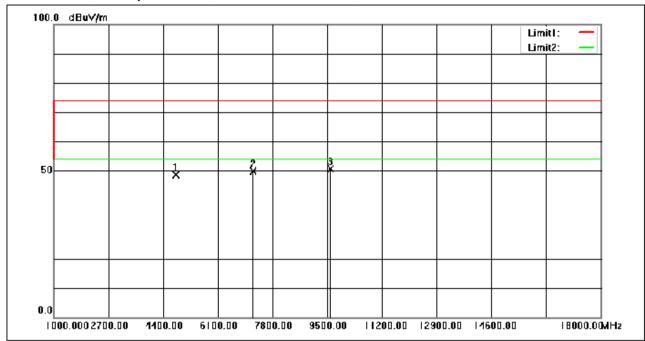
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Test Mode: 06; Polarity: Horizontal; Modulation:π/4 DQPSK; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4804.000	57.56	-8.86	48.70	74.00	-25.30	peak
2	7206.000	55.73	-5.89	49.84	74.00	-24.16	peak
3	9608.000	51.91	-1.26	50.65	74.00	-23.35	peak



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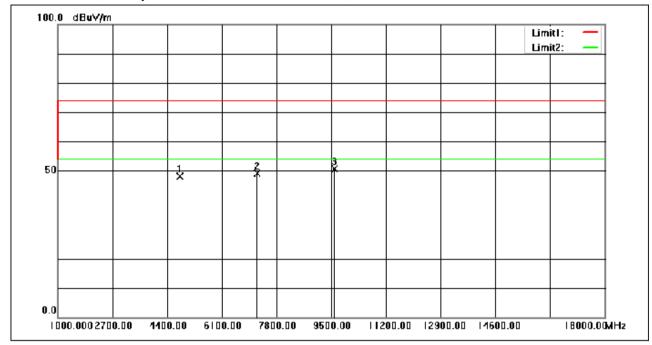
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Report No.: KSCR220300041302

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Test Mode: 06; Polarity: Vertical; Modulation:π/4 DQPSK; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4804.000	56.87	-8.86	48.01	74.00	-25.99	peak
2	7206.000	54.99	-5.89	49.10	74.00	-24.90	peak
3	9608.000	51.86	-1.26	50.60	74.00	-23.40	peak



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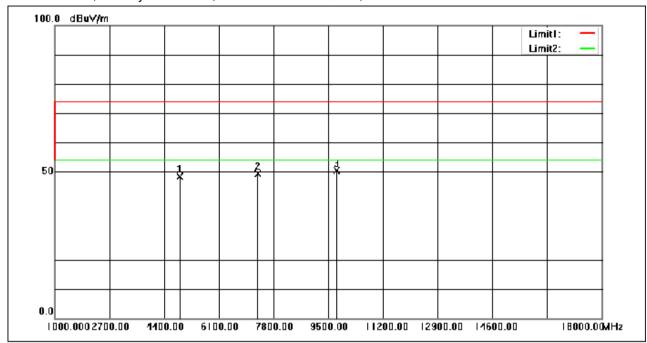
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Report No.: KSCR220300041302

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Test Mode: 06; Polarity: Horizontal; Modulation:π/4 DQPSK; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4882.000	56.96	-8.58	48.38	74.00	-25.62	peak
2	7323.000	55.17	-5.77	49.40	74.00	-24.60	peak
3	9764.000	51.76	-1.46	50.30	74.00	-23.70	peak



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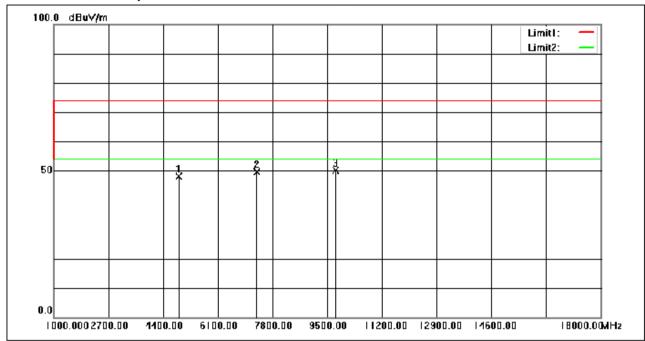
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Report No.: KSCR220300041302

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Test Mode: 06; Polarity: Vertical; Modulation:π/4 DQPSK; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4882.000	56.81	-8.58	48.23	74.00	-25.77	peak
2	7323.000	55.38	-5.77	49.61	74.00	-24.39	peak
3	9764.000	51.48	-1.46	50.02	74.00	-23.98	peak



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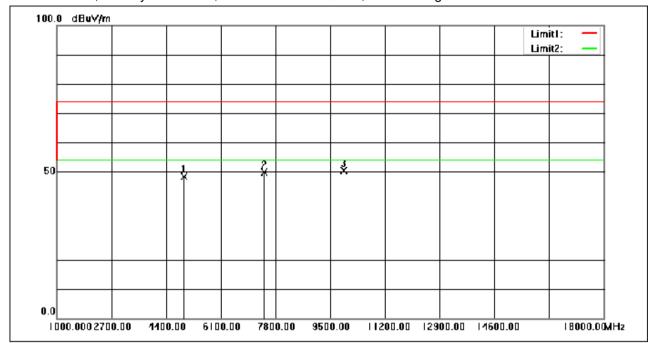
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Test Mode: 06; Polarity: Horizontal; Modulation:π/4 DQPSK; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4960.000	56.60	-8.32	48.28	74.00	-25.72	peak
2	7440.000	55.43	-5.63	49.80	74.00	-24.20	peak
3	9920.000	51.28	-0.94	50.34	74.00	-23.66	peak



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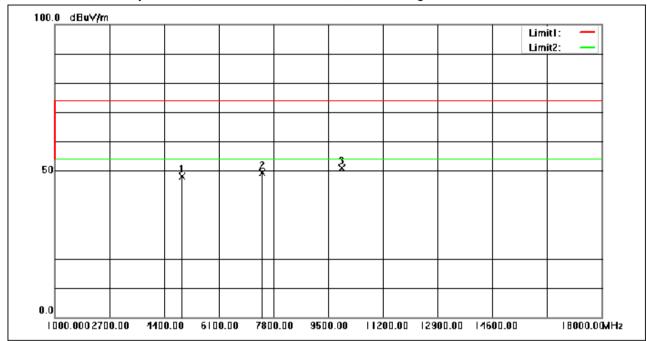
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Test Mode: 06; Polarity: Vertical; Modulation:π/4 DQPSK; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4960.000	56.56	-8.32	48.24	74.00	-25.76	peak
2	7440.000	55.00	-5.63	49.37	74.00	-24.63	peak
3	9920.000	51.79	-0.94	50.85	74.00	-23.15	peak



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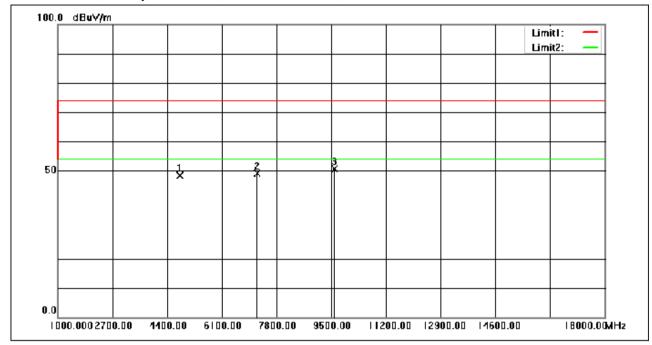
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Test Mode: 06; Polarity: Horizontal; Modulation:8DPSK; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4804.000	57.35	-8.86	48.49	74.00	-25.51	peak
2	7206.000	54.98	-5.89	49.09	74.00	-24.91	peak
3	9608.000	51.98	-1.26	50.72	74.00	-23.28	peak



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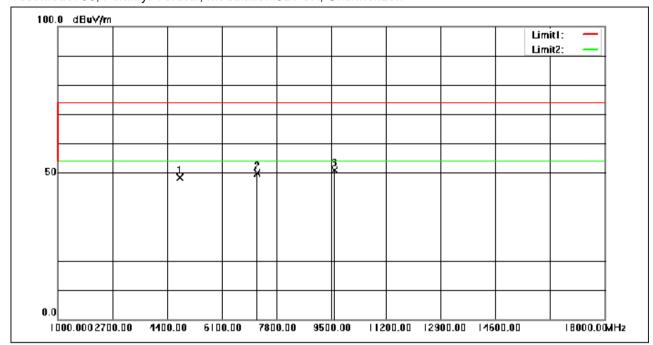
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Test Mode: 06; Polarity: Vertical; Modulation:8DPSK; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4804.000	57.14	-8.86	48.28	74.00	-25.72	peak
2	7206.000	55.68	-5.89	49.79	74.00	-24.21	peak
3	9608.000	52.10	-1.26	50.84	74.00	-23.16	peak



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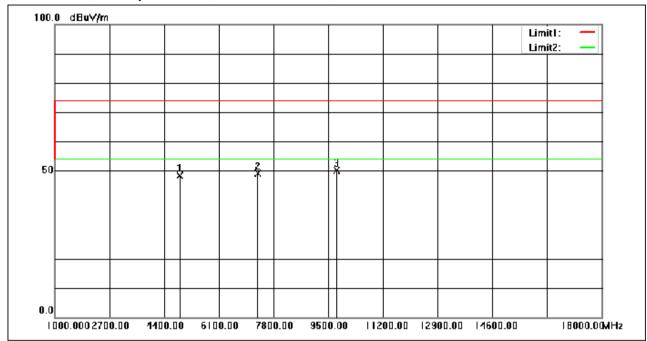
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Test Mode: 06; Polarity: Horizontal; Modulation:8DPSK; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4882.000	56.85	-8.58	48.27	74.00	-25.73	peak
2	7323.000	55.02	-5.77	49.25	74.00	-24.75	peak
3	9764.000	51.63	-1.46	50.17	74.00	-23.83	peak



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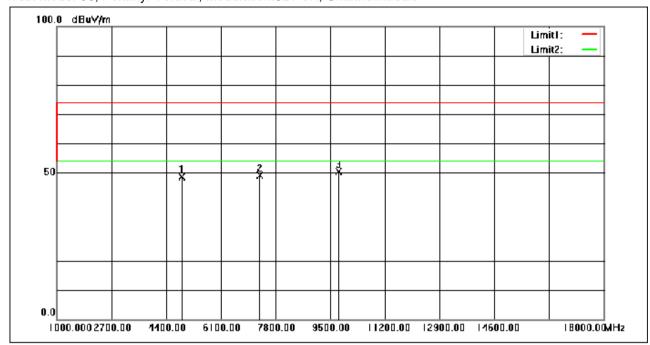
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Report No.: KSCR220300041302

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Test Mode: 06; Polarity: Vertical; Modulation:8DPSK; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4882.000	57.17	-8.58	48.59	74.00	-25.41	peak
2	7323.000	54.85	-5.77	49.08	74.00	-24.92	peak
3	9764.000	51.74	-1.46	50.28	74.00	-23.72	peak



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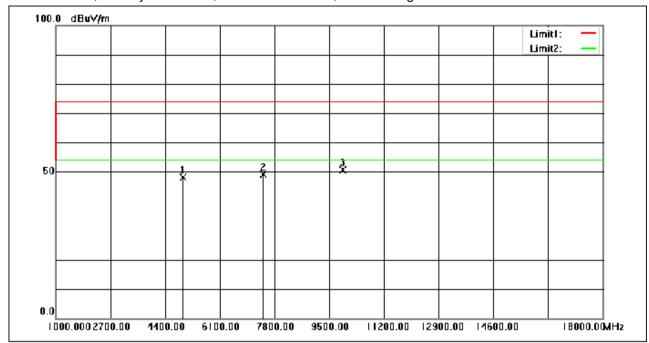
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Test Mode: 06; Polarity: Horizontal; Modulation:8DPSK; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4960.000	56.42	-8.32	48.10	74.00	-25.90	peak
2	7440.000	54.73	-5.63	49.10	74.00	-24.90	peak
3	9920.000	51.59	-0.94	50.65	74.00	-23.35	peak



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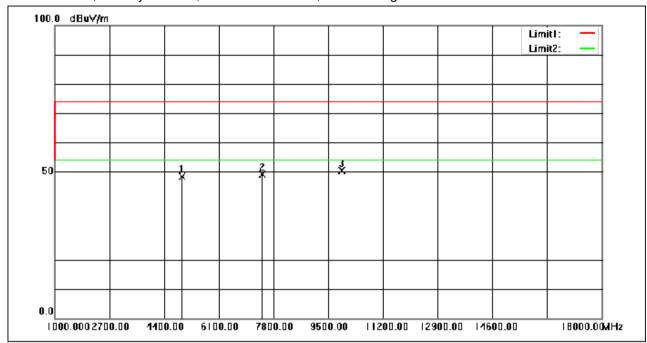
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Test Mode: 06; Polarity: Vertical; Modulation:8DPSK; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4960.000	56.69	-8.32	48.37	74.00	-25.63	peak
2	7440.000	54.84	-5.63	49.21	74.00	-24.79	peak
3	9920.000	51.33	-0.94	50.39	74.00	-23.61	peak



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7.12 99% Bandwidth

Test Requirement RSS-Gen Section 6.7
Test Method: ANSI C63.10 Section 6.9.3

7.12.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

7.12.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	Charge + TX_non-Hop mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

7.12.3 Test Setup Diagram

7.12.4 Measurement Procedure and Data

The detailed test data see: Appendix B for KSCR220300041302



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2203000413AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for KSCR2203000413AT

- End of the Report -



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