

588 West Jindu Road, Xingiao, Songjiang, 201612 Shanghai, China

Telephone: +86 (0) 21 6191 5666 Report No.: SHEM180600506302 Fax: +86 (0) 21 6191 5678

ee.shanghai@sgs.com Page: 1 of 87

TEST REPORT

Application No.: SHEM1806005063CR **FCC ID:** 2ADTD-WCM-HT20W

Applicant: Hangzhou Hikvision Digital Technology Co., Ltd.

Address of Applicant: No.555 Qianmo Road, Binjiang District, Hangzhou 310052, China

Manufacturer: Hangzhou Hikvision Digital Technology Co., Ltd.

Address of Manufacturer: No.555 Qianmo Road, Binjiang District, Hangzhou 310052, China

Factory: 1.Hangzhou Hikvision Technology Co., Ltd.

2. Hangzhou Hikvision Electronics Co., Ltd.

Address of Factory: 1. No.700, Dongliu Road, Binjiang District, Hangzhou City, Zhejiang,

310052, China

2. No.299, Qiushi Road, Tonglu Economic Development Zone, Tonglu

County, Hangzhou, Zhejiang, 310052, China

Equipment Under Test (EUT):

EUT Name: Network Camera

Model No.: WCM-HT20W-IN-HIK

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

Date of Receipt: 2018-07-02

Date of Test: 2018-07-05 to 2018-07-09

Date of Issue: 2018-07-27

Test Result: Pass*



Parlam Zhan E&E Section Manager

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

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



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Revision Record								
Version Description Date Remark								
00	Original	2018-07-27	/					

Authorized for issue by:		
	Vincent Zhu	
	Vincent Zhu / Project Engineer	
	Parlam Zhan	
	Parlam Zhan /Reviewer	



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2 Test Summary

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(c)	Customer Declaration				

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 15.209 & 15.247(d)	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 15.209 & 15.247(d)	Pass				



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4 General Information

4.1 Details of E.U.T.

Power supply: DC 5V 1A by Adapter

Adapter 1:

Model:ED1-050100UA

INPUT:100-240V~,50/60Hz, 0.2A

OUTPUT:5V-1A

Adapter 2:

Model:ADS-5RE-06 05050EPCU-L INPUT:100-120V~60Hz Max.150mA

OUTPUT:5V-1A

Test voltage: AC 120V 60Hz

Cable: DC Cable 300cm for Adapter

Antenna Gain 2.3 dBi

Antenna Type Integral Antenna

Channel Spacing 5MHz

Modulation Type 802.11b: DSSS (CCK, DQPSK, DBPSK)

802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)

Number of Channels 802.11b/g/n(HT20):11

802.11n(HT40):7

Operation Frequency 802.11b/g/n(HT20): 2412MHz to 2462MHz

802.11n(HT40): 2422MHz to 2452MHz

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	ThinkPad X100e	1
SecureCRT	VanDyke	V 6.2.0	1
Serial port adapter plate	/	Test Plate 3	/



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4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.25 x 10-8
2	Timeout	2s
3	Duty cycle	0.37%
4	Occupied Bandwidth	3%
5	RF conducted power	0.75dB
6	RF power density	2.84dB
7	Conducted Spurious emissions	0.75dB
0	DE Dadiated naver	4.5dB (Below 1GHz)
8	RF Radiated power	4.8dB (Above 1GHz)
		4.2dB (Below 30MHz)
9	Padiated Sourious emission test	4.4dB (30MHz-1GHz)
9	Radiated Spurious emission test	4.6dB (1GHz-18GHz)
		5.2dB (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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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

No tests were sub-contracted.

4.5 Test Facility

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

CNAS (No. CNAS L0599)

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

• NVLAP (Certificate No. 201034-0)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the National Voluntary Laboratory Accreditation Program(NVLAP). Certificate No. 201034-0.

• FCC -Designation Number: CN5033

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

Designation Number: CN5033. Test Firm Registration Number: 479755.

• Industry Canada (IC) - IC Assigned Code: 8617A

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A-1.

VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Conducted Emission at AC		Model No	inventory No	Oai Date	Cai Due Date
EMI test receiver	R&S	ESR7	SHEM162-1	2017-12-20	2018-12-19
LISN	Schwarzbeck	NSLK8127	SHEM061-1	2017-12-20	2018-12-19
LISN	EMCO	3816/2	SHEM019-1	2017-12-20	2018-12-19
Pulse limiter	R&S	ESH3-Z2	SHEM029-1	2017-12-20	2018-12-19
CE test Cable	/	CE01	/	2017-12-26	2018-12-25
Conducted Test	Dag	E0D 00	OUEMOOD 4	0047.40.00	0040 40 40
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2017-12-20	2018-12-19
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2017-09-26	2018-09-25
Power meter	R&S	NRP	SHEM057-1	2017-12-26	2018-12-25
Power Sensor	R&S	NRP-Z22	SHEM136-1	2018-07-22	2019-07-21
Power Sensor	R&S	NRP-Z91	SHEM057-2	2017-12-26	2018-12-25
Signal Generator	R&S	SMR40	SHEM058-1	2018-07-22	2019-07-21
Signal Generator	Agilent	N5182A	SHEM182-1	2017-09-26	2018-09-25
Communication Tester	R&S	CMW270	SHEM183-1	2017-10-22	2018-10-21
Switcher	Tonscend	JS0806	SHEM184-1	2017-09-26	2018-09-25
Splitter	Anritsu	MA1612A	SHEM185-1	/	/
Coupler	e-meca	803-S-1	SHEM186-1	/	1
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2017-09-26	2018-09-25
AC Power Stabilizer	WOCEN	6100	SHEM045-1	2017-12-26	2018-12-25
DC Power Supply	QJE	QJ30003SII	SHEM046-1	2017-12-26	2018-12-25
Conducted test Cable	/	RF01, RF 02	/	2017-12-26	2018-12-25
Radiated Test					
EMI test receiver	R&S	ESU40	SHEM051-1	2017-12-20	2018-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2017-12-20	2018-12-19
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2017-04-10	2020-04-09
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2017-02-28	2020-02-27
Antenna (25MHz-3GHz)	Schwarzbeck	HL562	SHEM010-1	2017-02-28	2020-02-27
Horn Antenna (1-8GHz)	Schwarzbeck	HF906	SHEM009-1	2017-10-24	2020-10-23
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2017-01-14	2020-01-13
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2017-12-03	2020-12-02
Pre-amplifier (9KHz-2GHz)	LAVIIO	LNA-0001-412010	SHEM164-1	2017-08-22	2018-08-21
Pre-amplifier (1-18GHz)	CLAVIIO	BDLNA-0118-352810	SHEM050-2	2017-08-22	2018-08-21
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2017-12-20	2018-12-19
Band filter	LORCH	9BRX-875/X150-SR	SHEM156-1	/	/
Band filter	LORCH	13BRX-1950/X500-SR	SHEM083-2	/	/
Band filter	LORCH	5BRX-2400/X200-SR	SHEM155-1	/	/
Band filter	LORCH	5BRX-5500/X1000-SR	SHEM157-2	/	/
High pass Filter	Wainwright	WHK3.0/18G-100SS	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700-3SS	SHEM157-3	/	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2017-07-22	2020-07-21
RE test Cable	/	RE01, RE02, RE06	/	2017-12-26	2018-12-25



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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(c)

6.1.2 Conclusion

Standard Requirement:

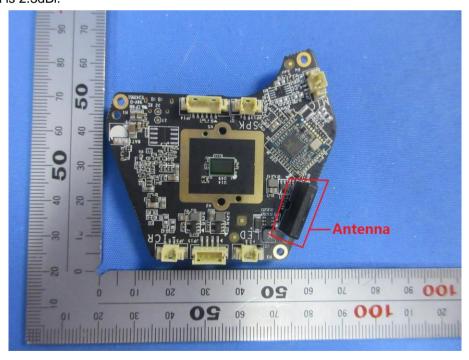
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 integral antenna and no consideration of replacement. The best case gain of the antenna is 2.3dBi.





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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:

Fraguency of emission/MU=)	Conducted	limit(dBµV)			
Frequency of 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.					



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7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1003 mbar

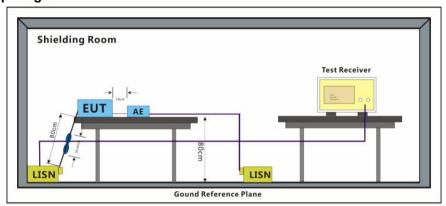
Test mode c:Engineering Mode 1_Using test software to control EUT working in continuous

transmitting, and select channel and modulation type.(For Adapter 1)

d:Engineering Mode 2_Using test software to control EUT working in continuous

transmitting, and select channel and modulation type.(For Adapter 2)

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 $50 \text{ohm}/50 \mu\text{H} + 5 \text{ohm}$ 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.

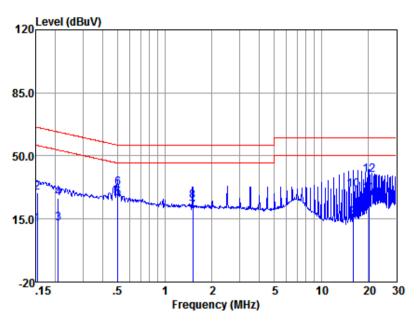
Remark: LISN=Read Level+ Cable Loss+ LISN Factor



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Mode:c; Line:Live Line



LISN : LINE EUT/Project No : 5063CR

Test Mode : c

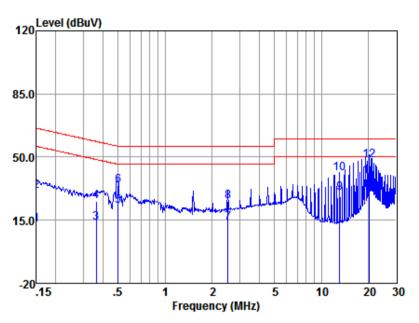
	Freq	Read level	LISN Factor	Cable Loss	Emission Level	Limit	Over Limit	Remark
	(MHz)	(dBuV)	(dB)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.15	1.90	0.11	9.82	11.83	55.87	-44.04	Average
2	0.15	19.78	0.11	9.82	29.71	65.87	-36.16	QP
3	0.21	2.76	0.11	9.83	12.70	53.27	-40.57	Average
4	0.21	16.44	0.11	9.83	26.38	63.27	-36.89	QP
5	0.50	16.64	0.11	9.80	26.55	46.00	-19.45	Average
6	0.50	22.46	0.11	9.80	32.37	56.00	-23.63	QP
7	1.51	9.11	0.11	9.88	19.10	46.00	-26.90	Average
8	1.51	15.03	0.11	9.88	25.02	56.00	-30.98	QP
9	16.05	5.74	0.16	9.93	15.83	50.00	-34.17	Average
10	16.05	20.80	0.16	9.93	30.89	60.00	-29.11	QP
11	20.16	18.76	0.18	9.93	28.87	50.00	-21.13	Average
12	20.16	29.53	0.18	9.93	39.64	60.00	-20.36	QP



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Mode:c; Line:Neutral Line



LISN : NEUTRAL EUT/Project No : 5063CR

Test Mode : c

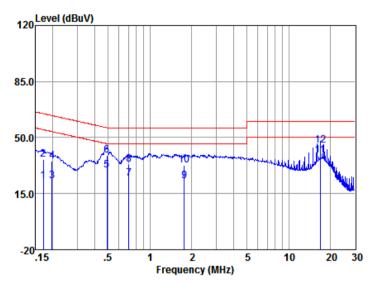
	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.15	2.85	0.12	9.82	12.79	56.00	-43.21	Average
2	0.15	21.31	0.12	9.82	31.25	66.00	-34.75	QP
3	0.36	3.42	0.11	9.84	13.37	48.69	-35.32	Average
4	0.36	15.33	0.11	9.84	25.28	58.69	-33.41	QP
5	0.50	12.91	0.11	9.80	22.82	46.00	-23.18	Average
6	0.50	24.33	0.11	9.80	34.24	56.00	-21.76	QP
7	2.53	3.35	0.13	9.93	13.41	46.00	-32.59	Average
8	2.53	15.58	0.13	9.93	25.64	56.00	-30.36	QP
9	13.13	20.03	0.16	9.91	30.10	50.00	-19.90	Average
10	13.13	30.74	0.16	9.91	40.81	60.00	-19.19	QP
11	20.16	29.31	0.20	9.93	39.44	50.00	-10.56	Average
12	20.16	38.01	0.20	9.93	48.14	60.00	-11.86	QP



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Mode:d; Line:Live Line



LISN : LINE EUT/Project No : 5063CR

Test Mode : d

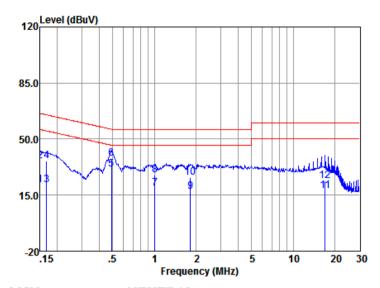
	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.17	12.69	0.11	9.83	22.63	54.94	-32.31	Average
2	0.17	26.18	0.11	9.83	36.12	64.94	-28.82	QP
3	0.20	12.91	0.11	9.83	22.85	53.71	-30.86	Äverage
4	0.20	25.10	0.11	9.83	35.04	63.71	-28.67	QP _
5	0.49	19.71	0.11	9.81	29.63	46.19	-16.56	Average
6	0.49	28.98	0.11	9.81	38.90	56.19	-17.29	QP
7	0.70	14.61	0.11	9.85	24.57	46.00	-21.43	Average
8	0.70	23.50	0.11	9.85	33.46	56.00	-22.54	QP
9	1.77	12.71	0.12	9.86	22.69	46.00	-23.31	Average
10	1.77	22.74	0.12	9.86	32.72	56.00	-23.28	QP
11	16.93	28.66	0.16	9.94	38.76	50.00	-11.24	Average
12	16.93	35.11	0.16	9.94	45.21	60.00	-14.79	QP



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Mode:d; Line:Neutral Line



LISN : NEUTRAL EUT/Project No : 5063CR

Test Mode : d

	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.15	11.38	0.12	9.82	21.32	56.00	-34.68	Average
2	0.15	26.29	0.12	9.82	36.23	66.00	-29.77	QΡ
3	0.17	11.42	0.12	9.83	21.37	55.08	-33.71	Average
4	0.17	26.11	0.12	9.83	36.06	65.08	-29.02	QP
5	0.49	21.22	0.11	9.81	31.14	46.14	-15.00	Average
6	0.49	27.96	0.11	9.81	37.88	56.14	-18.26	QP
7	1.00	9.57	0.11	9.77	19.45	46.00	-26.55	Average
8	1.00	17.40	0.11	9.77	27.28	56.00	-28.72	QP
9	1.82	7.42	0.12	9.88	17.42	46.00	-28.58	Average
10	1.82	15.77	0.12	9.88	25.77	56.00	-30.23	QP
11	17.02	7.39	0.18	9.95	17.52	50.00	-32.48	Average
12	17.02	13.62	0.18	9.95	23.75	60.00	-36.25	QP



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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

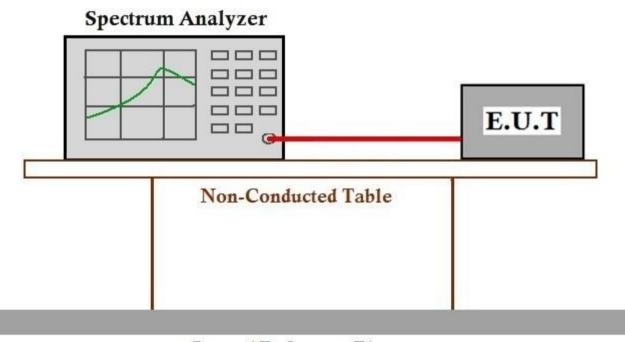
Operating Environment:

Temperature: 21 °C Humidity: 45 % RH Atmospheric Pressure: 1010 mbar

Test mode c:Engineering Mode 1_Using test software to control EUT working in continuous

transmitting, and select channel and modulation type.(For Adapter 1)

7.2.2 Test Setup Diagram



Ground Reference Plane

7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix A SHEM180600506302



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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				

7.3.1 E.U.T. Operation

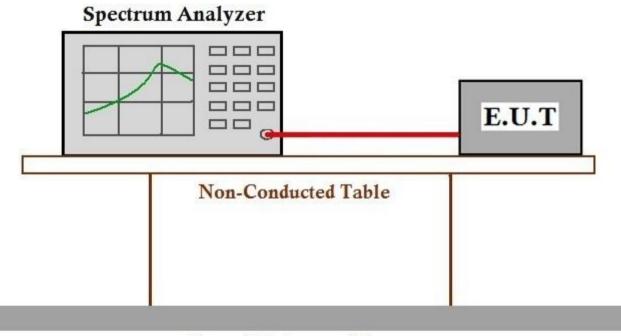
Operating Environment:

Temperature: 21 °C Humidity: 45 % RH Atmospheric Pressure: 1010 mbar

Test mode c:Engineering Mode 1_Using test software to control EUT working in continuous

transmitting, and select channel and modulation type.(For Adapter 1)

7.3.2 Test Setup Diagram



Ground Reference Plane

7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix A SHEM180600506302



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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

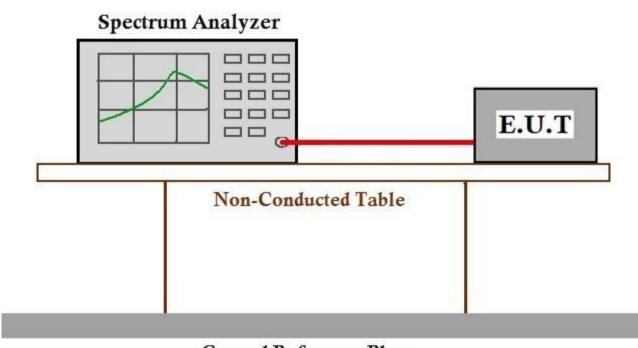
7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 21 °C Humidity: 45 % RH Atmospheric Pressure: 1010 mbar Test mode c:Engineering Mode 1_Using test software to control EUT working in continuous

transmitting, and select channel and modulation type.(For Adapter 1)

7.4.2 Test Setup Diagram



Ground Reference Plane

7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix A SHEM180600506302



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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)

7.5.1 E.U.T. Operation

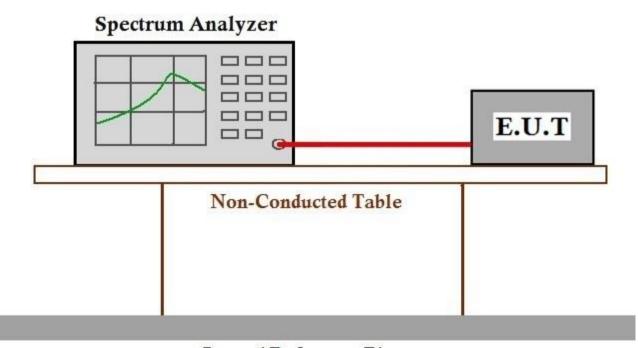
Operating Environment:

Temperature: 21 °C Humidity: 45 % RH Atmospheric Pressure: 1010 mbar

Test mode c:Engineering Mode 1_Using test software to control EUT working in continuous

transmitting, and select channel and modulation type.(For Adapter 1)

7.5.2 Test Setup Diagram



Ground Reference Plane

7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix A SHEM180600506302

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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)

7.6.1 E.U.T. Operation

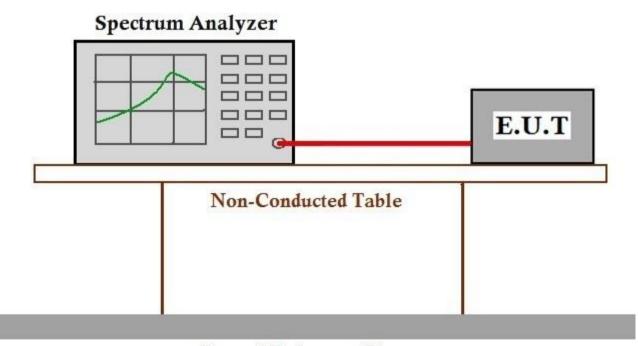
Operating Environment:

Temperature: 21 °C Humidity: 45 % RH Atmospheric Pressure: 1010 mbar

Test mode c:Engineering Mode 1_Using test software to control EUT working in continuous

transmitting, and select channel and modulation type.(For Adapter 1)

7.6.2 Test Setup Diagram



Ground Reference Plane

7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix A SHEM180600506302

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7.7 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d)

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.



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7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 21 °C Humidity: 45 % RH Atmospheric Pressure: 1010 mbar

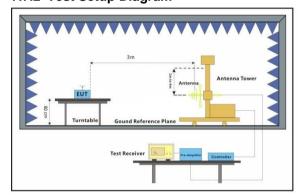
Test mode: c:Engineering Mode 1_Using test software to control EUT working in continuous

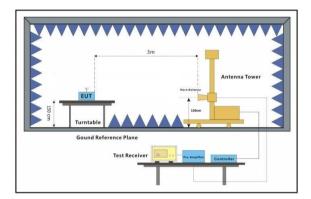
transmitting, and select channel and modulation type. (For Adapter 1)

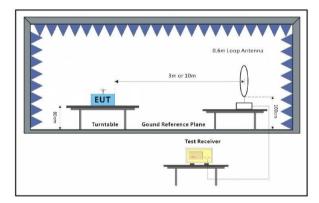
d:Engineering Mode 2_Using test software to control EUT working in continuous

transmitting, and select channel and modulation type.(For Adapter 2)

7.7.2 Test Setup Diagram









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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

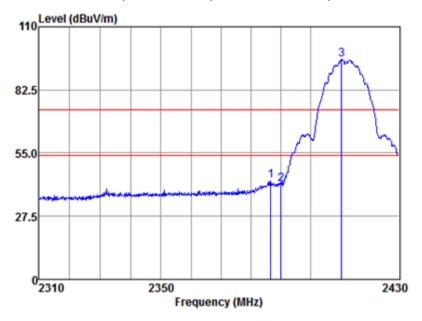
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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Mode:c; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

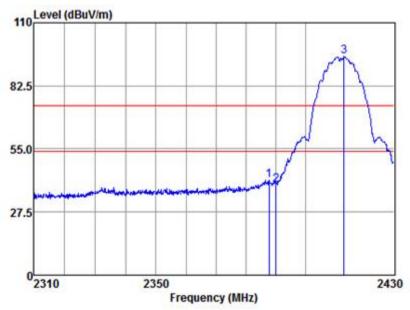
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2386.58	47.85	26.03	6.47	37.36	42.99	74.00	-31.01	Peak
2390.00	46.34	26.03	6.47	37.36	41.48	74.00	-32.52	Peak
2410.51	100.40	26.06	6.50	37.35	95.61	74.00	21.61	Peak



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Mode:c; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

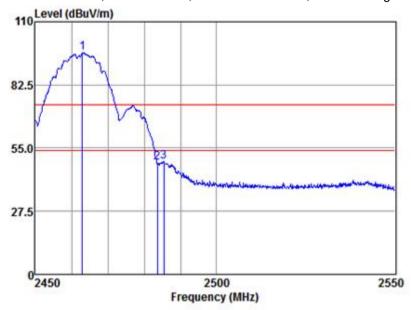
	Read	Antenna	Cable	Preamp	Emission	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2387.67	46.46	26.03	6.47	37.36	41.60	74.00	-32.40	Peak
2390.00	44.25	26.03	6.47	37.36	39.39	74.00	-34.61	Peak
2413.08	99.99	26.08	6.50	37.36	95.21	74.00	21.21	Peak



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Mode:c; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

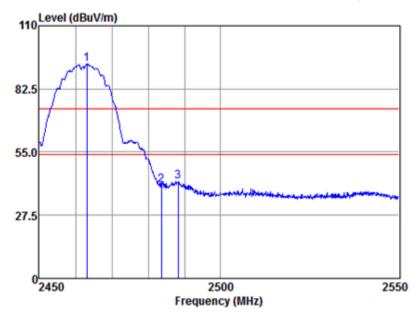
	Read	Antenna	Cable	Preamp	Emission	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2462.97	101.07	26.15	6.68	37.46	96.44	74.00	22.44	Peak
2483.50	53.34	26.18	6.80	37.51	48.81	74.00	-25.19	Peak
2485.34	53.46	26.18	6.80	37.51	48.93	74.00	-25.07	Peak



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Mode:c; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

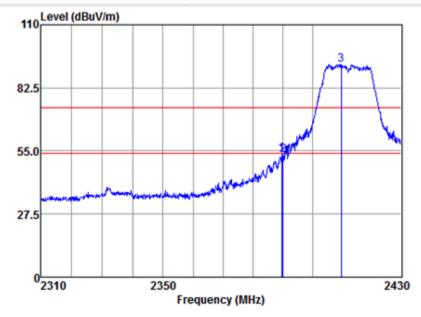
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
		-			93.23			Peak
2483.50	45.20	26.18	6.80	37.51	40.67	74.00	-33.33	Peak
2488.23	46.82	26.18	6.80	37.51	42.29	74.00	-31.71	Peak



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Mode:c; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

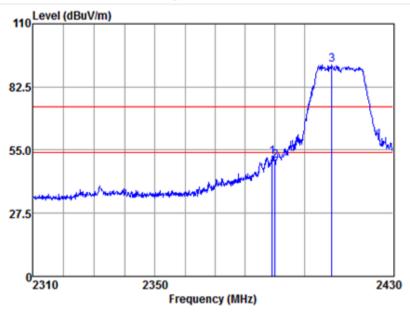
	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.61	58.38	26.03	6.47	37.36	53.52	74.00	-20.48	Peak
2390.00	57.97	26.03	6.47	37.36	53.11	74.00	-20.89	Peak
2409.66	97.37	26.06	6.50	37.35	92.58	74.00	18.58	Peak



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Mode:c; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

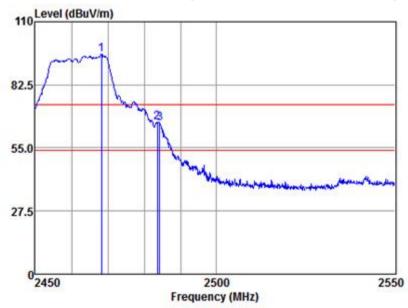
	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.12	56.90	26.03	6.47	37.36	52.04	74.00	-21.96	Peak
2390.00	55.36	26.03	6.47	37.36	50.50	74.00	-23.50	Peak
2409.29	96.74	26.06	6.50	37.35	91.95	74.00	17.95	Peak



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Mode:c; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

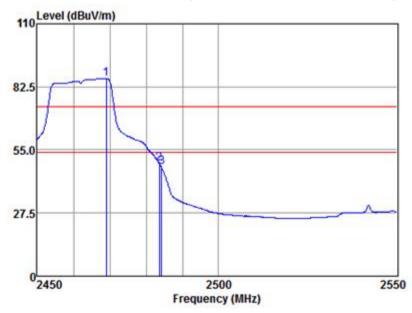
	Read	Antenna	Cable	Preamp	Emission	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2468.20	100.26	26.16	6.74	37.48	95.68	74.00	21.68	Peak
2483.50	70.65	26.18	6.80	37.51	66.12	74.00	-7.88	Peak
2484.15	70.33	26.18	6.80	37.51	65.80	74.00	-8.20	Peak



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Mode:c; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

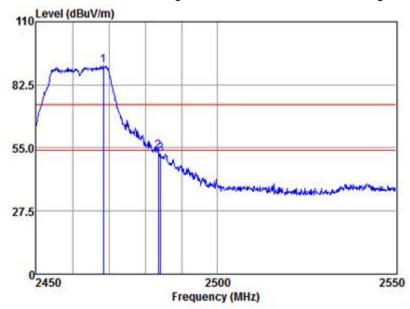
	Freq					Emission Level			Remark
_									
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
24	68.89	90.78	26.16	6.74	37.48	86.20	54.00	32.20	Average
24	83.50	53.71	26.18	6.80	37.51	49.18	54.00	-4.82	Average
24	84.15	51.97	26.18	6.80	37.51	47.44	54.00	-6.56	Average



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Mode:c; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

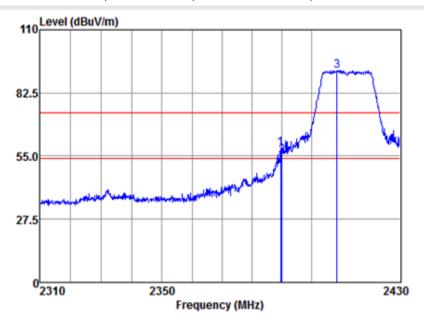
	Read	Antenna	Cable	Preamp	Emission	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2468.40	95.49	26.16	6.74	37.48	90.91	74.00	16.91	Peak
2483.50	58.01	26.18	6.80	37.51	53.48	74.00	-20.52	Peak
2484.25	56.96	26.18	6.80	37.51	52.43	74.00	-21.57	Peak



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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

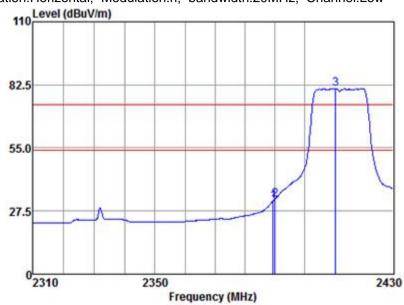
	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.61	63.48	26.03	6.47	37.36	58.62	74.00	-15.38	Peak
2390.00	60.20	26.03	6.47	37.36	55.34	74.00	-18.66	Peak
2408.68	97.04	26.06	6.50	37.35	92.25	74.00	18.25	Peak



Report No.: SHEM180600506302

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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

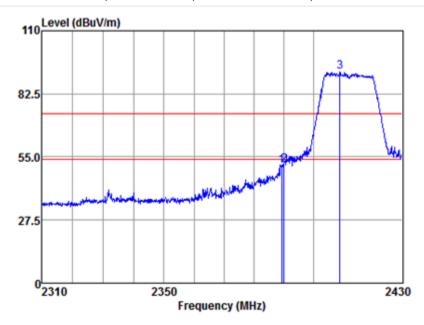
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.36	36.69	26.03	6.47	37.36	31.83	54.00	-22.17	Average
2390.00	37.46	26.03	6.47	37.36	32.60	54.00	-21.40	Average
2410.51	85.63	26.06	6.50	37.35	80.84	54.00	26.84	Average



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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

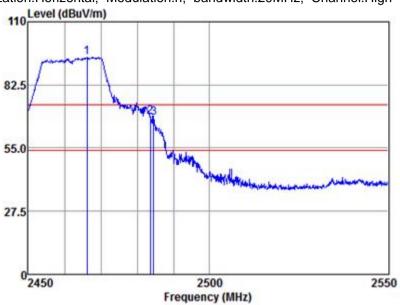
	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.24	55.86	26.03	6.47	37.36	51.00	74.00	-23.00	Peak
2390.00	56.56	26.03	6.47	37.36	51.70	74.00	-22.30	Peak
2408.93	97.12	26.06	6.50	37.35	92.33	74.00	18.33	Peak



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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

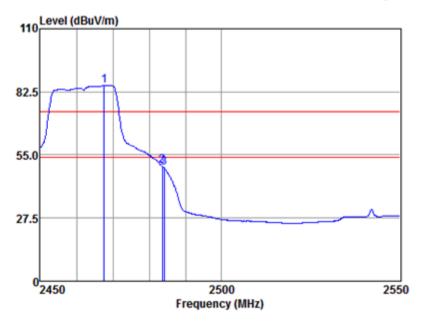
Frea				*	Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2466.13	99.12	26.15	6.74	37.46	94.55	74.00	20.55	Peak
2483.50	73.12	26.18	6.80	37.51	68.59	74.00	-5.41	Peak
2484.45	72.79	26.18	6.80	37.51	68.26	74.00	-5.74	Peak



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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

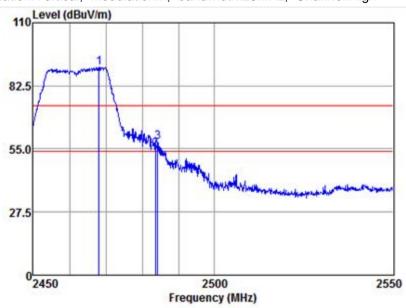
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2467.51	89.83	26.15	6.74	37.46	85.26	54.00	31.26	Average
2483.50	54.71	26.18	6.80	37.51	50.18	54.00	-3.82	Average
2484.05	53.93	26.18	6.80	37.51	49.40	54.00	-4.60	Average



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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

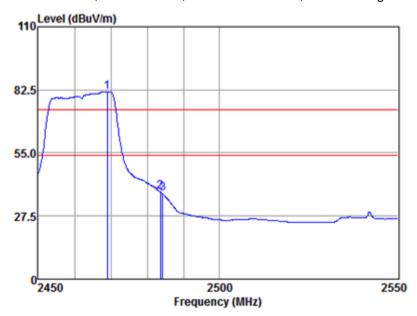
	Read	Antenna	Cable	Preamp	Emission	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2468.00	95.14	26.16	6.74	37.48	90.56	74.00	16.56	Peak
2483.50	59.37	26.18	6.80	37.51	54.84	74.00	-19.16	Peak
2484.15	62.50	26.18	6.80	37.51	57.97	74.00	-16.03	Peak



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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

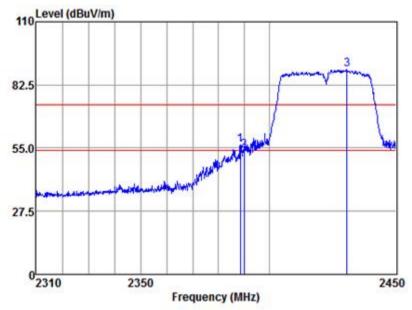
	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2468.99	86.20	26.16	6.74	37.48	81.62	54.00	27.62	Average
2483.50	42.67	26.18	6.80	37.51	38.14	54.00	-15.86	Average
2484.15	41.89	26.18	6.80	37.51	37.36	54.00	-16.64	Average



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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



Antenna Polarity : HORIZONTAL

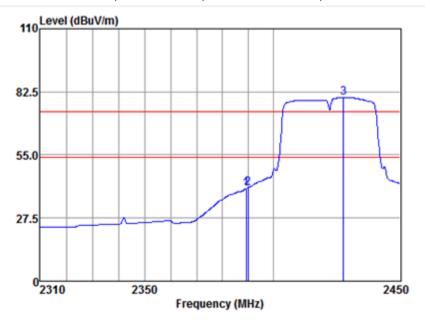
	Read	Antenna	Cable	Preamp	Emission	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2388.51	61.28	26.03	6.47	37.36	56.42	74.00	-17.58	Peak
2390.00	58.80	26.03	6.47	37.36	53.94	74.00	-20.06	Peak
2430.62	94.06	26.10	6.56	37.39	89.33	74.00	15.33	Peak



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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



Antenna Polarity : HORIZONTAL

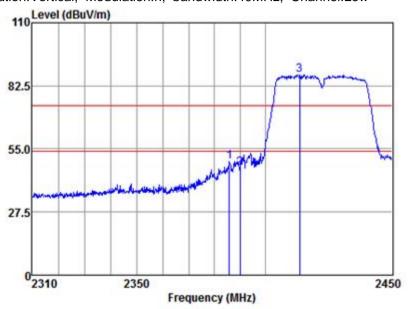
	Read	Antenna	Cable	Preamp	Emission	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.21	45.16	26.03	6.47	37.36	40.30	54.00	-13.70	Average
2390.00	45.56	26.03	6.47	37.36	40.70	54.00	-13.30	Average
2427.61	84.79	26.10	6.56	37.39	80.06	54.00	26.06	Average



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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



Antenna Polarity : VERTICAL

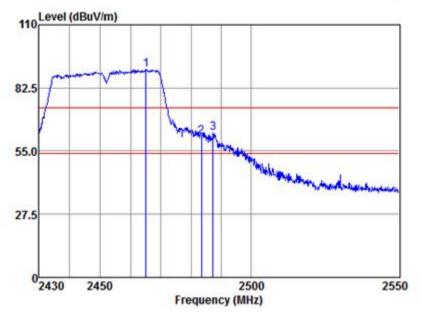
	Read	Antenna	Cable	Preamp	Emission	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2385.70	54.32	26.03	6.47	37.36	49.46	74.00	-24.54	Peak
2390.00	51.70	26.03	6.47	37.36	46.84	74.00	-27.16	Peak
2413.37	92.11	26.08	6.50	37.36	87.33	74.00	13.33	Peak



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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



Antenna Polarity : HORIZONTAL

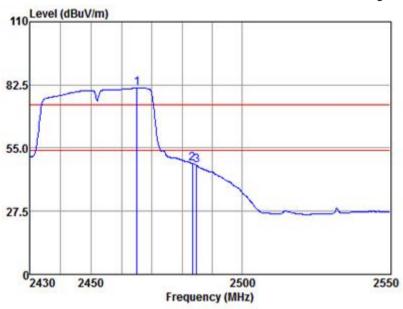
Freq	Read Level				Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2465.04	95.08	26.15	6.74	37.46	90.51	74.00	16.51	Peak
2483.50	65.74	26.18	6.80	37.51	61.21	74.00	-12.79	Peak
2487.36	67.40	26.18	6.80	37.51	62.87	74.00	-11.13	Peak



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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



Antenna Polarity : HORIZONTAL

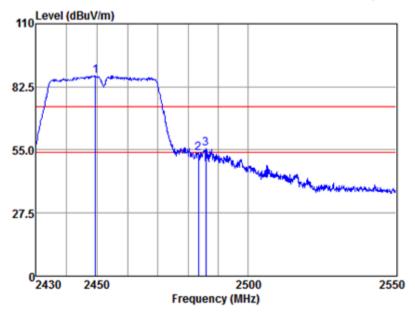
	Read	Antenna	Cable	Preamp	Emission	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2465.16	85.77	26.15	6.74	37.46	81.20	74.00	7.20	Peak
2483.50	52.87	26.18	6.80	37.51	48.34	74.00	-25.66	Peak
2484.84	52.02	26.18	6.80	37.51	47.49	74.00	-26.51	Peak



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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



Antenna Polarity : VERTICAL

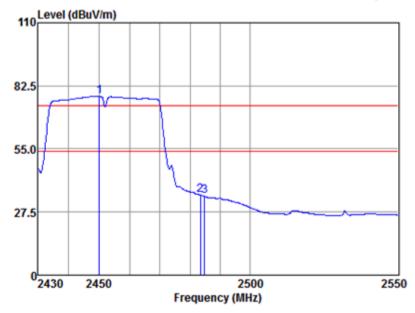
	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2449.40	91.85	26.13	6.68	37.43	87.23	74.00	13.23	Peak
2483.50	58.07	26.18	6.80	37.51	53.54	74.00	-20.46	Peak
2485.92	60.26	26.18	6.80	37.51	55.73	74.00	-18.27	Peak



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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



Antenna Polarity : VERTICAL

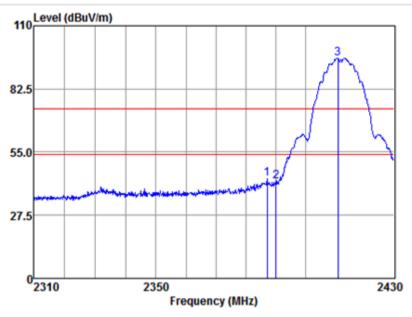
	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2449.99	82.56	26.13	6.68	37.43	77.94	54.00	23.94	Average
2483.50	39.43	26.18	6.80	37.51	34.90	54.00	-19.10	Average
2484.84	38.87	26.18	6.80	37.51	34.34	54.00	-19.66	Average



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Mode:d; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

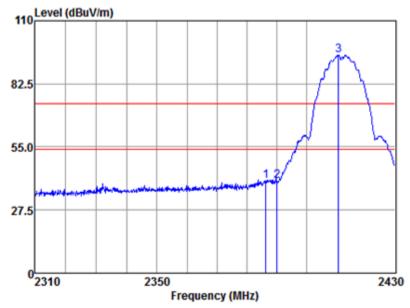
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2387.07	48.36	26.03	6.47	37.36	43.50	74.00	-30.50	Peak
2390.00	47.14	26.03	6.47	37.36	42.28	74.00	-31.72	Peak
2411.00	100.76	26.06	6.50	37.35	95.97	74.00	21.97	Peak



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Mode:d; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

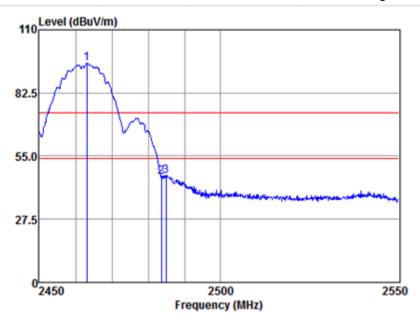
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2386.34	45.17	26.03	6.47	37.36	40.31	74.00	-33.69	Peak
2390.00	45.08	26.03	6.47	37.36	40.22	74.00	-33.78	Peak
2410.88	99.78	26.06	6.50	37.35	94.99	74.00	20.99	Peak



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Mode:d; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

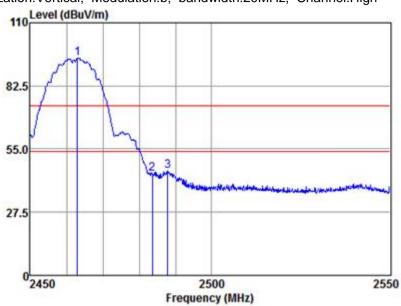
Frea				•	Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2463.07	99.95	26.15	6.68	37.46	95.32	74.00	21.32	Peak
2483.50	50.59	26.18	6.80	37.51	46.06	74.00	-27.94	Peak
2484.84	50.87	26.18	6.80	37.51	46.34	74.00	-27.66	Peak



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Mode:d; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

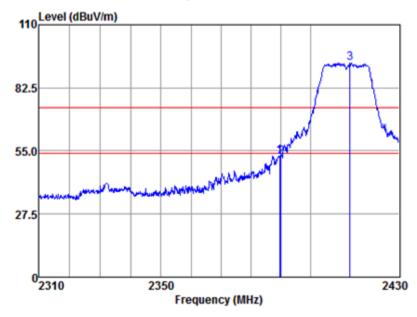
	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2462.97	99.39	26.15	6.68	37.46	94.76	74.00	20.76	Peak
2483.50	48.67	26.18	6.80	37.51	44.14	74.00	-29.86	Peak
2487.83	49.79	26.18	6.80	37.51	45.26	74.00	-28.74	Peak



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Mode:d; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

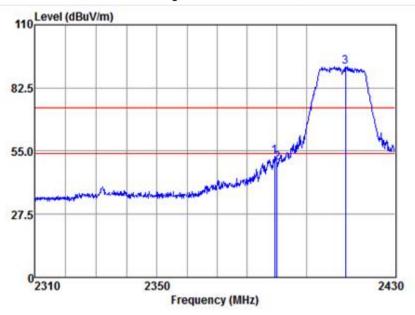
	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.61	57.82	26.03	6.47	37.36	52.96	74.00	-21.04	Peak
2390.00	57.40	26.03	6.47	37.36	52.54	74.00	-21.46	Peak
2413.44	98.12	26.08	6.50	37.36	93.34	74.00	19.34	Peak



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Mode:d; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

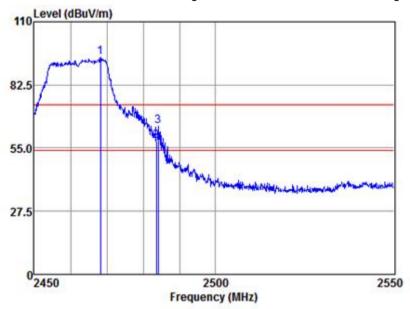
Freq	Read Level				Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.2	4 57.50	26.03	6.47	37.36	52.64	74.00	-21.36	Peak
2390.0	0 54.90	26.03	6.47	37.36	50.04	74.00	-23.96	Peak
2413.2	0 96.57	26.08	6.50	37.36	91.79	74.00	17.79	Peak



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Mode:d; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

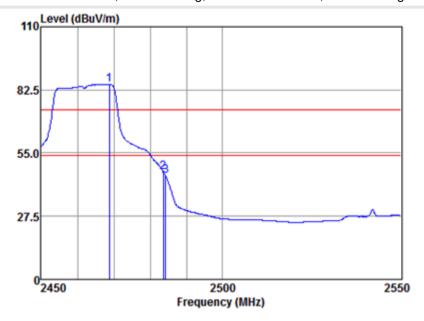
	Read	Antenna	Cable	Preamp	Emission	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2468.20	99.19	26.16	6.74	37.48	94.61	74.00	20.61	Peak
2483.50	62.38	26.18	6.80	37.51	57.85	74.00	-16.15	Peak
2484.05	68.93	26.18	6.80	37.51	64.40	74.00	-9.60	Peak



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Mode:d; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

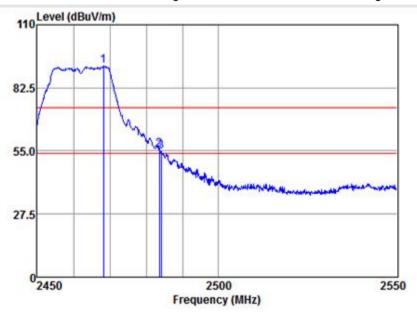
Freq				•	Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2468.69	89.50	26.16	6.74	37.48	84.92	54.00	30.92	Average
2483.50	51.41	26.18	6.80	37.51	46.88	54.00	-7.12	Average
2484.15	49.65	26.18	6.80	37.51	45.12	54.00	-8.88	Average



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Mode:d; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

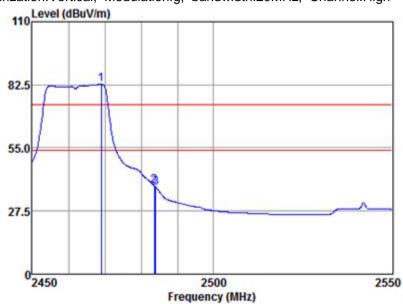
	Read	Antenna	Cable	Preamp	Emission	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2468.20	96.54	26.16	6.74	37.48	91.96	74.00	17.96	Peak
2483.50	60.27	26.18	6.80	37.51	55.74	74.00	-18.26	Peak
2484.05	59.33	26.18	6.80	37.51	54.80	74.00	-19.20	Peak



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Mode:d; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

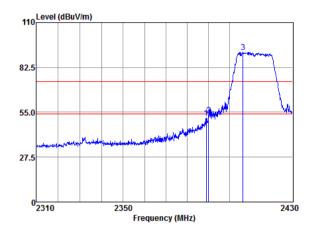
	Read	Antenna	Cable	Preamp	Emission	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2468.99	87.30	26.16	6.74	37.48	82.72	54.00	28.72	Average
2483.50	43.12	26.18	6.80	37.51	38.59	54.00	-15.41	Average
2483.95	42.42	26.18	6.80	37.51	37.89	54.00	-16.11	Average



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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

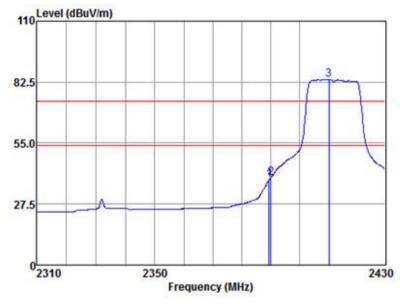
	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.00	56.57	26.03	6.47	37.36	51.71	74.00	-22.29	Peak
2390.00	57.98	26.03	6.47	37.36	53.12	74.00	-20.88	Peak
2406.36	96.55	26.06	6.50	37.35	91.76	74.00	17.76	Peak



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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

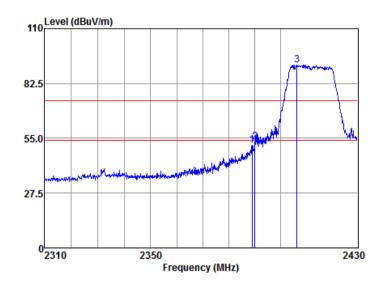
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.48	43.24	26.03	6.47	37.36	38.38	54.00	-15.62	Average
2390.00	44.12	26.03	6.47	37.36	39.26	54.00	-14.74	Average
2410.39	88.57	26.06	6.50	37.35	83.78	54.00	29.78	Average



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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

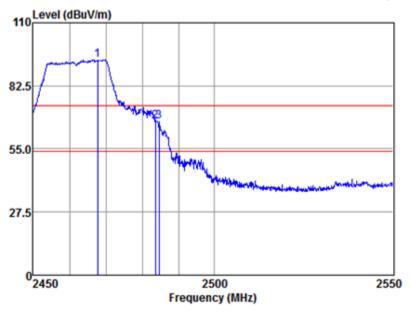
	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.00	56.57	26.03	6.47	37.36	51.71	74.00	-22.29	Peak
2390.00	57.98	26.03	6.47	37.36	53.12	74.00	-20.88	Peak
2406.36	96.55	26.06	6.50	37.35	91.76	74.00	17.76	Peak



Report No.: SHEM180600506302

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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

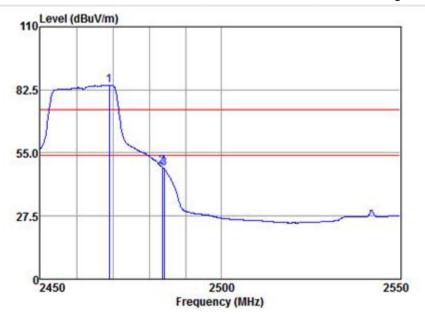
	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2467.61	98.53	26.16	6.74	37.48	93.95	74.00	19.95	Peak
2483.50	71.59	26.18	6.80	37.51	67.06	74.00	-6.94	Peak
2484.65	71.55	26.18	6.80	37.51	67.02	74.00	-6.98	Peak



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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

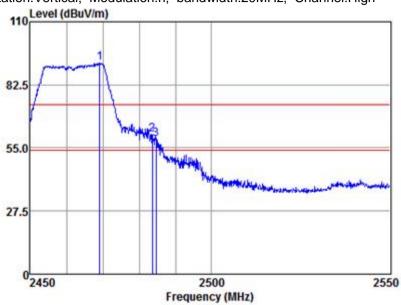
	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2468.99	89.14	26.16	6.74	37.48	84.56	54.00	30.56	Average
2483.50	53.44	26.18	6.80	37.51	48.91	54.00	-5.09	Average
2484.05	52.68	26.18	6.80	37.51	48.15	54.00	-5.85	Average



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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

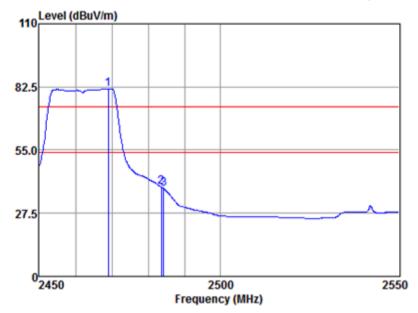
					Emission			20 12
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2469.09	96.59	26.16	6.74	37.48	92.01	74.00	18.01	Peak
2483.50	65.54	26.18	6.80	37.51	61.01	74.00	-12.99	Peak
2484.55	63.45	26.18	6.80	37.51	58.92	74.00	-15.08	Peak



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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



Antenna Polarity :VERTICAL

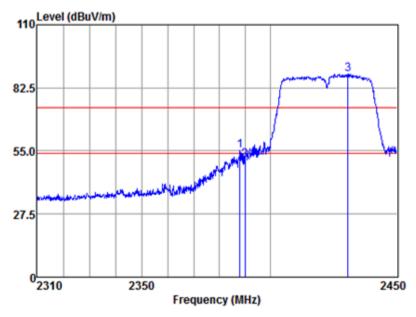
	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2468.99	86.34	26.16	6.74	37.48	81.76	54.00	27.76	Average
2483.50	43.50	26.18	6.80	37.51	38.97	54.00	-15.03	Average
2484.25	42.65	26.18	6.80	37.51	38.12	54.00	-15.88	Average



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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



Antenna Polarity : HORIZONTAL

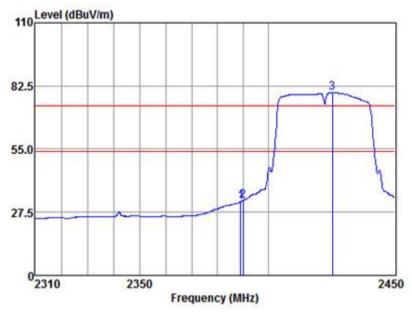
	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2387.95	59.93	26.03	6.47	37.36	55.07	74.00	-18.93	Peak
2390.00	56.18	26.03	6.47	37.36	51.32	74.00	-22.68	Peak
2430.47	93.38	26.10	6.56	37.39	88.65	74.00	14.65	Peak



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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



Antenna Polarity : HORIZONTAL

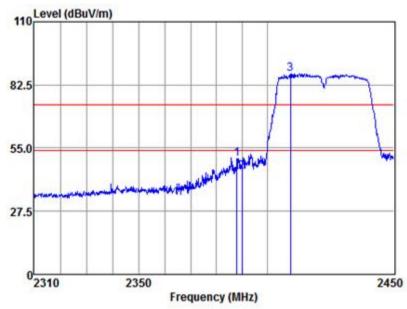
	Read	Antenna	Cable	Preamp	Emission	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.07	36.92	26.03	6.47	37.36	32.06	54.00	-21.94	Average
2390.00	37.43	26.03	6.47	37.36	32.57	54.00	-21.43	Average
2425.19	84.18	26.10	6.56	37.39	79.45	54.00	25.45	Average



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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



Antenna Polarity : VERTICAL

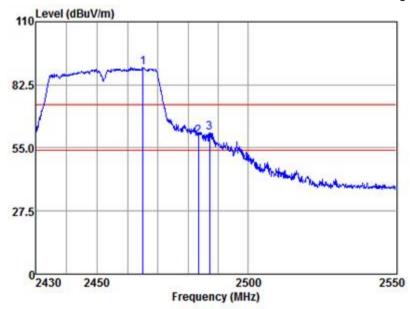
	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2387.95	55.09	26.03	6.47	37.36	50.23	74.00	-23.77	Peak
2390.00	49.50	26.03	6.47	37.36	44.64	74.00	-29.36	Peak
2408.97	92.14	26.06	6.50	37.35	87.35	74.00	13.35	Peak



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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



Antenna Polarity : HORIZONTAL

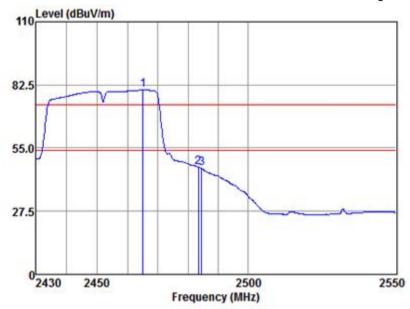
	Read	Antenna	Cable	Preamp	Emission	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2465.04	94.74	26.15	6.74	37.46	90.17	74.00	16.17	Peak
2483.50	64.69	26.18	6.80	37.51	60.16	74.00	-13.84	Peak
2487.24	66.13	26.18	6.80	37.51	61.60	74.00	-12.40	Peak



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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



Antenna Polarity : HORIZONTAL

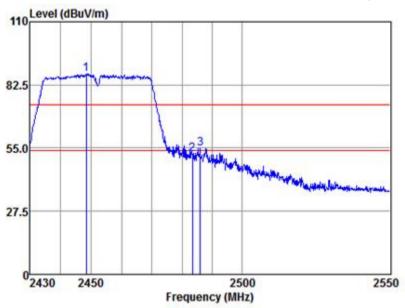
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2465.16	84.89	26.15	6.74	37.46	80.32	54.00	26.32	Average
2483.50	51.27	26.18	6.80	37.51	46.74	54.00	-7.26	Average
2484.48	50.72	26.18	6.80	37.51	46.19	54.00	-7.81	Average



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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



Antenna Polarity : VERTICAL

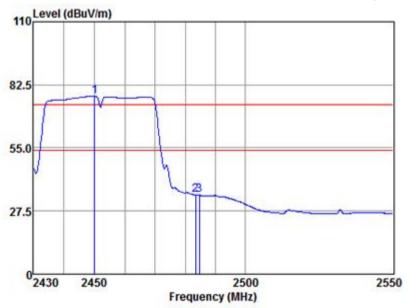
	Read	Antenna	Cable	Preamp	Emission	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2448.34	91.98	26.13	6.68	37.43	87.36	74.00	13.36	Peak
2483.50	57.08	26.18	6.80	37.51	52.55	74.00	-21.45	Peak
2486.04	59.53	26.18	6.80	37.51	55.00	74.00	-19.00	Peak



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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



Antenna Polarity : VERTICAL

Freq	Read Level				Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2449.99	82.08	26.13	6.68	37.43	77.46	54.00	23.46	Average
2483.50	39.17	26.18	6.80	37.51	34.64	54.00	-19.36	Average
2484.72	38.90	26.18	6.80	37.51	34.37	54.00	-19.63	Average



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7.8 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d)

Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

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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7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 21 °C Humidity: 45 % RH Atmospheric Pressure: 1010 mbar

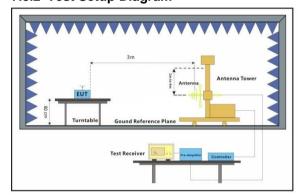
Test mode: c:Engineering Mode 1_Using test software to control EUT working in continuous

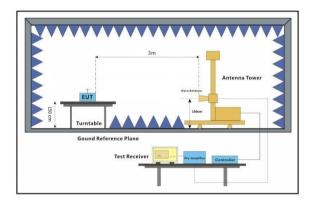
transmitting, and select channel and modulation type.(For Adapter 1)

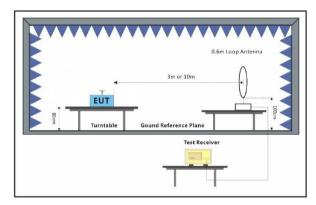
d:Engineering Mode 2_Using test software to control EUT working in continuous

transmitting, and select channel and modulation type.(For Adapter 2)

7.8.2 Test Setup Diagram









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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

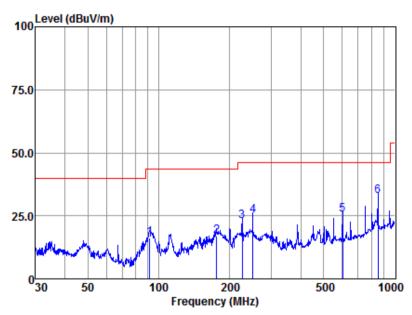
- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 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



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Mode:c; Polarization:Horizontal



Antenna Polarity :HORIZONTAL EUT/Project :5063CR

		Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	91.49	50.05	8.33	0.42	42.68	16.12	43.50	-27.38	QP
2	175.65	47.08	11.77	0.66	42.56	16.95	43.50	-26.55	QP
3	226.10	54.18	10.55	0.73	42.49	22.97	46.00	-23.03	QP
4	250.30	55.41	11.50	0.77	42.46	25.22	46.00	-20.78	QP
5	601.43	46.91	19.42	1.38	42.19	25.52	46.00	-20.48	QP
6	851.04	50.49	22.32	2.28	42.23	32.86	46.00	-13.14	QP

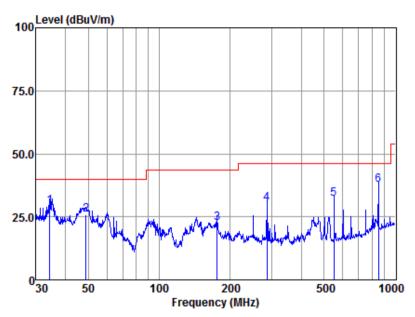
Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Mode:c; Polarization:Vertical



Antenna Polarity :VERTICAL EUT/Project :5063CR

		Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	34.28	55.76	15.76	0.20	42.61	29.11	40.00	-10.89	QP
2	48.84	56.94	11.22	0.26	42.64	25.78	40.00	-14.22	QP
3	176.27	52.72	11.79	0.66	42.56	22.61	43.50	-20.89	QP
4	285.98	59.15	12.74	0.83	42.42	30.30	46.00	-15.70	QP
5	550.95	54.61	18.38	1.28	42.17	32.10	46.00	-13.90	QP
6	851.04	55.26	22.32	2.28	42.23	37.63	46.00	-8.37	QP

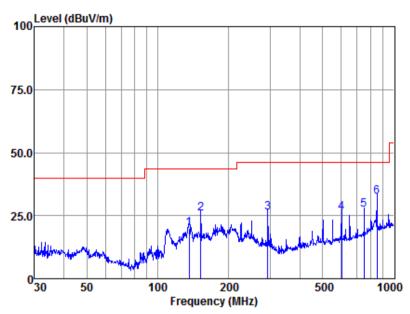
Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Mode:d; Polarization:Horizontal



Antenna Polarity :HORIZONTAL EUT/Project :5063CR

	Freq					Emission Level			Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	135.98	50.07	11.87	0.60	42.64	19.90	43.50	-23.60	QP
2	152.13	55.72	12.17	0.62	42.61	25.90	43.50	-17.60	QP
3	293.08	54.93	12.97	0.83	42.41	26.32	46.00	-19.68	QP
4	601.43	47.57	19.42	1.38	42.19	26.18	46.00	-19.82	QР
5	750.11	46.74	21.09	1.88	42.57	27.14	46.00	-18.86	QР
6	851.04	50.03	22.32	2.28	42.23	32.40	46.00	-13.60	ŌΡ

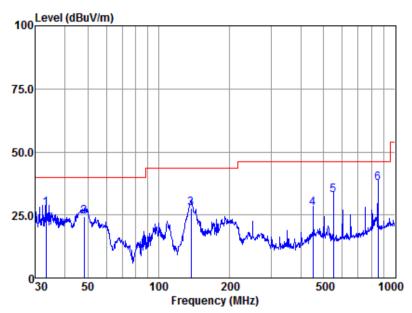
Note:Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Mode:d; Polarization:Vertical



Antenna Polarity :VERTICAL EUT/Project :5063CR

		Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	33.21	54.27	15.65	0.20	42.61	27.51	40.00	-12.49	QP
2	48.16	55.34	11.58	0.25	42.64	24.53	40.00	-15.47	QP
3	136.94	58.17	11.73	0.60	42.64	27.86	43.50	-15.64	QP
4	451.14	52.39	16.23	1.09	42.12	27.59	46.00	-18.41	QP
5	550.95	55.45	18.38	1.28	42.17	32.94	46.00	-13.06	QP
6	851.04	55.42	22.32	2.28	42.23	37.79	46.00	-8.21	QP

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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Mode:c; Pol	arization:F	lorizontal;	Modulation:b	; bandwid	th:20MHz;	Channel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	40.67	6.40	47.07	54	-6.93	peak
7236	36.76	10.76	47.52	54	-6.48	peak
9648	35.87	14.37	50.24	54	-3.76	peak
			odulation:b; b			
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	42.66	6.40	49.06	54	-4.94	peak
7236	37.94	10.76	48.70	54	-5.30	peak
9648	31.75	14.37	46.12	54	-7.88	peak
Mode:c: Pol	arization:F	lorizontal:	Modulation:b	: bandwid	th:20MHz:	Channel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	38.85	6.92	45.77	54	-8.23	peak
7311	39.28	11.08	50.36	54	-3.64	peak
9748	33.14	14.36	47.50	54	-6.50	peak
3740	33.14	14.50	47.50	5 4	0.50	peak
Mode:c; Pol	arization:\	ertical; M	odulation:b; b	andwidth:	20MHz; C	hannel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	40.90	6.92	47.82	54	-6.18	peak
7311	37.18	11.08	48.26	54	-5.74	peak
9748	34.48	14.36	48.84	54	-5.16	peak
						Channel:High
-			Emission		_	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	40.99	7.31	48.30	54	-5.70	peak
7386	38.41	11.41	49.82	54	-4.18	peak
9848	31.04	14.38	45.42	54	-8.58	peak
Moderc: Pol	arization·\	/ertical· M	odulation:b; k	andwidth:	20MHz· C	hannel·High
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	39.22	7.31	46.53	54	-7.47	peak
7386	39.74	11.41	51.15	54	-2.85	peak
9848	32.25	14.38	46.63	54	-7.37	peak
5570	02.20	1-7.00	- 0.00	07	1.01	pour



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Mode:c; Pola	arization:H	lorizontal;	Modulation:g;	bandwidt	:h:20MHz;	Channel:Low				
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector				
MHz	dBuV	dB	dBuV/m	dBuV/m	dB					
4824	43.77	6.40	50.17	54	-3.83	peak				
7236	36.58	10.76	47.34	54	-6.66	peak				
9648	35.86	14.37	50.23	54	-3.77	peak				
Mode:c; Pola	arization:V	ertical; M	odulation:g; b	andwidth:2	20MHz; C	hannel:Low				
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector				
MHz	dBuV	dB	dBuV/m	dBuV/m	dB					
4824	41.48	6.40	47.88	54	-6.12	peak				
7236	34.22	10.76	44.98	54	-9.02	peak				
9648	32.69	14.37	47.06	54	-6.94	peak				
Mode:c; Pola	arization:H	lorizontal;	Modulation:g;	bandwidt	:h:20MHz;	Channel:middle				
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector				
MHz	dBuV	dB	dBuV/m	dBuV/m	dB					
4874	38.45	6.92	45.37	54	-8.63	peak				
7311	34.22	11.08	45.30	54	-8.70	peak				
9748	31.07	14.36	45.43	54	-8.57	peak				
Mode:c; Pola	Mode:c; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:middle									
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector				
MHz	dBuV	dB	dBuV/m	dBuV/m	dB					
4874	38.01	6.92	44.93	54	-9.07	peak				
7311	36.47	11.08	47.55	54	-6.45	peak				
9748	31.98	14.36	46.34	54	-7.66	peak				
Mode:c; Pola	arization:H	lorizontal;	Modulation:g;	bandwidt	:h:20MHz;	Channel:High				
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector				
MHz	dBuV	dB	dBuV/m	dBuV/m	dB					
4924	38.93	7.31	46.24	54	-7.76	peak				
7386	38.70	11.41	50.11	54	-3.89	peak				
9848	35.92	14.38	50.30	54	-3.70	peak				
Mode:c; Pola	arization:V	ertical; M	odulation:g; b	andwidth:2	20MHz; C	hannel:High				
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector				
MHz	dBuV	dB	dBuV/m	dBuV/m	dB					
4924	39.98	7.31	47.29	54	-6.71	peak				
7386	a - aa					-				
	37.60	11.41	49.01	54	-4.99	peak				
9848	37.60 32.84	11.41 14.38	49.01 47.22	54 54	-4.99 -6.78	peak peak				



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Mode:c; Pol	arization:F	lorizontal;	Modulation:n	ı; bandwidt	h:20MHz;	Channel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	39.84	6.40	46.24	54	-7.76	peak
7236	38.10	10.76	48.86	54	-5.14	peak
9648	32.25	14.37	46.62	54	-7.38	peak
Modoro: Pol	orization:\	/ortical: M	odulation:n; I	andwidth:	OMU C	hannal:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
				54		nook
4824	38.99	6.40	45.39		-8.61 -7.70	peak
7236	35.45	10.76	46.21	54	-7.79	peak
9648	32.96	14.37	47.33	54	-6.67	peak
Mode:c; Pol	arization:F	lorizontal;	Modulation:n	ı; bandwidt	h:20MHz;	Channel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	43.95	6.92	50.87	54	-3.13	peak
7311	39.55	11.08	50.63	54	-3.37	peak
9748	33.84	14.36	48.20	54	-5.80	peak
Modoro: Pol	orization:\	/ortical: M	odulation:n: l	andwidth:)∩ \	hannel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
4874	40.52	6.92	47.44	54	-6.56	poak
						peak
7311	38.80	11.08	49.88	54	-4.12	peak
9748	35.30	14.36	49.66	54	-4.34	peak
Mode:c; Pol	arization:F	lorizontal;	Modulation:n	ı; bandwidt	h:20MHz;	Channel:High
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	42.99	7.31	50.30	54	-3.70	peak
7386	39.60	11.41	51.01	54	-2.99	peak
9848	31.39	14.38	45.77	54	-8.23	peak
						·
Mode:c; Pol	arization:√	ertical; M	odulation:n; I			hannel:High
					110000	Dotootor
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
Frequency MHz	RX_R dBuV	Factor dB	Emission dBuV/m	Limit dBuV/m	iviargin dB	Detector
					-	peak
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	



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Mode:c; Pola	arization:l	Horizontal;	Modulation:r	n; bandwidt	h:40MHz;	Channel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4844	40.31	6.60	46.91	54	-7.09	peak
7266	35.40	10.89	46.29	54	-7.71	peak
9688	31.74	14.35	46.09	54	-7.91	peak
Mode:c; Pola	arization·\	/ertical· M	odulation:n:	handwidth:	10MHz· C	hannel·l ow
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4844	40.89	6.60	47.49	54	-6.51	peak
7266	36.30	10.89	47.19	54	-6.81	peak
9688	33.29	14.35	47.64	54	-6.36	peak
		-		-		Channel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	40.24	6.92	47.16	54	-6.84	peak
7311	34.92	11.08	46.00	54	-8.00	peak
9748	34.84	14.36	49.20	54	-4.80	peak
Mode:c: Pola	arization:\	√ertical: M	odulation:n:	bandwidth:4	40MHz: C	hannel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	42.92	6.92	49.84	54	-4.16	peak
7311	35.14	11.08	46.22	54	-7.78	peak
9748	31.74	14.36	46.10	54	-7.90	peak
Madaya, Dak	- wi— a ti a .a .l	lovi-outol.	Madulatian	المناسط المسام		Chanaldliah
Frequency					m:40MHZ; Margin	Channel:High Detector
		dB	dBuV/m	dBuV/m	9	Detector
MHz 4904	dBuV 42.71	7.22	49.93	ови <i>у</i> /пі 54	dB -4.07	pook
						peak
7356	37.01	11.28	48.29	54	-5.71	peak
9808	34.21	14.37	48.58	54	-5.42	peak
Mode:c; Pola	arization:\	Vertical; M	odulation:n;	bandwidth:4	40MHz; C	hannel:High
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4904	38.64	7.22	45.86	54	-8.14	peak
7356	35.01	11.28	46.29	54	-7.71	peak
9808	31.05	14.37	45.42	54	-8.58	peak



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Mode:d; Pol	arization:F	lorizontal;	Modulation:	b; bandwidt	h:20MHz;	Channel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	44.23	6.40	50.63	54	-3.37	peak
7236	37.56	10.76	48.32	54	-5.68	peak
9648	35.13	14.37	49.50	54	-4.50	peak
Mode:d; Pol	arization:\	/ertical; M	odulation:b;	bandwidth:2	20MHz; C	hannel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	42.86	6.40	49.26	54	-4.74	peak
7236	38.19	10.76	48.95	54	-5.05	peak
9648	31.68	14.37	46.05	54	-7.95	peak
Mode:d; Pol	arization:F	lorizontal;	Modulation:	b; bandwidt	h:20MHz;	Channel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	39.07	6.92	45.99	54	-8.01	peak
7311	35.41	11.08	46.49	54	-7.51	peak
9748	33.66	14.36	48.02	54	-5.98	peak
Mode:d; Pol	arization:\	/ertical; M	odulation:b;	bandwidth:2	20MHz; C	hannel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	39.45	6.92	46.37	54	-7.63	peak
7311	37.05	11.08	48.13	54	-5.87	peak
9748	33.93	14.36	48.29	54	-5.71	peak
Mode:d; Pol	arization:F	lorizontal;	Modulation:	b; bandwidt	h:20MHz;	Channel:High
			Emission		Margin	-
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	39.47	7.31	46.78	54	-7.22	peak
7386	39.57	11.41	50.98	54	-3.02	peak
9848	34.11	14.38	48.49	54	-5.51	peak
Mode:d; Pol	arization:\	ertical; M	odulation:b;	bandwidth:2	20MHz; C	hannel:High
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	43.83	7.31	51.14	54	-2.86	peak
7386	34.94	11.41	46.35	54	-7.65	peak
9848	34.96	14.38	49.34	54	-4.66	peak



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Mode:d; Pol	arization:F	Horizontal;	Modulation:	g; bandwidt	h:20MHz;	Channel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	44.37	6.40	50.77	54	-3.23	peak
7236	36.52	10.76	47.28	54	-6.72	peak
9648	34.80	14.37	49.17	54	-4.83	peak
Mode:d; Pol	arization:\	/ertical: M	odulation:g:	bandwidth:2	20MHz: C	hannel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	40.24	6.40	46.64	54	-7.36	peak
7236	39.64	10.76	50.40	54	-3.60	peak
9648	34.68	14.37	49.05	54	-4.95	peak
Moderd: Pol	arization:L	Horizontal:	Modulation	a: bandwidt	h·20MHz·	Channel:middle
Frequency	RX_R	Factor	Emission	y, bandwidt Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
4874	38.05	6.92	44.97	54	-9.03	peak
7311	34.07	11.08	45.15	54	-8.85	peak
9748	36.72	14.36	51.08	54	-0.03 -2.92	•
9740	30.72	14.30	51.00	54	-2.92	peak
Mode:d; Pol	arization:\	/ertical; M	odulation:g;	bandwidth:2	20MHz; C	hannel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	40.07	6.92	46.99	54	-7.01	peak
7311	34.47	11.08	45.55	54	-8.45	peak
9748	31.36	14.36	45.72	54	-8.28	peak
Mode:d: Pol	arization:F	Horizontal:	Modulation:	g: bandwidt	h:20MHz:	Channel:High
Frequency				_	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	42.74	7.31	50.05	54	-3.95	peak
7386	36.92	11.41	48.33	54	-5.67	peak
9848	31.15	14.38	45.53	54	-8.47	peak
Mode:d; Pol	orizotion:\	/ortical: M	odulotioniai	handwidth:	OMU C	honnol: Uigh
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Dotoloi
4924	иви v 42.47	иБ 7.31	49.78	а Б а V/III 54	-4.22	neak
						peak
7386	36.00	11.41	47.41	54	-6.59	peak
9848	36.93	14.38	51.31	54	-2.69	peak



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Mode:d; Pol	arization:F	lorizontal;	Modulation:	n; bandwidt	h:20MHz;	Channel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	40.04	6.40	46.44	54	-7.56	peak
7236	36.46	10.76	47.22	54	-6.78	peak
9648	35.82	14.37	50.19	54	-3.81	peak
Mode:d; Pol	arization:V	ertical; M	odulation:n;	bandwidth:2	20MHz; Cl	hannel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4824	42.26	6.40	48.66	54	-5.34	peak
7236	39.99	10.76	50.75	54	-3.25	peak
9648	36.14	14.37	50.51	54	-3.49	peak
Mode:d; Pol	arization:F	lorizontal;	Modulation:	n; bandwidt	h:20MHz;	Channel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	40.08	6.92	47.00	54	-7.00	peak
7311	36.73	11.08	47.81	54	-6.19	peak
9748	35.41	14.36	49.77	54	-4.23	peak
Mode:d; Pol	arization:V	ertical; M	odulation:n;	bandwidth:2	20MHz; CI	hannel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	41.41	6.92	48.33	54	-5.67	peak
7311	36.80	11.08	47.88	54	-6.12	peak
9748	31.46	14.36	45.82	54	-8.18	peak
Mode:d; Pol	arization:F	lorizontal;	Modulation:	n; bandwidt	h:20MHz;	Channel:High
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	39.72	7.31	47.03	54	-6.97	peak
7386	34.50	11.41	45.91	54	-8.09	peak
9848	35.96	14.38	50.34	54	-3.66	peak
Mode:d; Pol	arization:V	ertical; M	odulation:n;	bandwidth:2	20MHz; Cl	hannel:High
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4924	43.66	7.31	50.97	54	-3.03	peak
7386	35.26	11.41	46.67	54	-7.33	peak
9848	33.97	14.38	48.35	54	-5.65	peak



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Mode:d; Pol	arization:H	lorizontal;	Modulation:	n; bandwidt	h:40MHz;	Channel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4844	42.43	6.60	49.03	54	-4.97	peak
7266	38.66	10.89	49.55	54	-4.45	peak
9688	30.89	14.35	45.24	54	-8.76	peak
Mode:d; Pol	arization:V	ertical: M	odulation:n:	bandwidth:4	10MHz: C	hannel:Low
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4844	38.16	6.60	44.76	54	-9.24	peak
7266	39.04	10.89	49.93	54	-4.07	peak
9688	35.83	14.35	50.18	54	-3.82	peak
Madad Dal			Madulatian	المناسبة المستعددة ا	L . 40NAL I	Objective by a state of the sta
			Emission	n; bandwidt Limit		Channel:middle
Frequency MHz	RX_R	Factor			Margin	Detector
	dBuV	dB	dBuV/m	dBuV/m	dB	1
4874	40.36	6.92	47.28	54	-6.72	peak
7311	34.76	11.08	45.84	54	-8.16	peak
9748	31.99	14.36	46.35	54	-7.65	peak
Mode:d; Pol	arization:V	ertical; M	odulation:n;	bandwidth:4	40MHz; C	hannel:middle
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4874	39.33	6.92	46.25	54	-7.75	peak
7311	35.50	11.08	46.58	54	-7.42	peak
9748	36.03	14.36	50.39	54	-3.61	peak
Mode:d: Pol	arization:H	lorizontal:	Modulation:	n: bandwidt	h:40MHz:	Channel:High
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4904	41.18	7.22	48.40	54	-5.60	peak
7356	37.75	11.28	49.03	54	-4.97	peak
9808	31.53	14.37	45.90	54	-8.10	peak
Mode:d; Pol	arization:V		odulation:n;	bandwidth:4		•
Frequency	RX_R	Factor	Emission	Limit	Margin	Detector
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
4904	40.82	7.22	48.04	54	-5.96	peak
7356	34.82	11.28	46.10	54	-7.90	peak
		11.20	70.10	J -1	-1.30	pean
9808	34.84	14.37	49.21	54	-4.79	peak



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8 Test Setup Photographs

Refer to the < Test Setup photos-FCC>.

9 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

- End of the Report -