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# **TEST REPORT**

Application No.:	SHEM2107008154CR	
FCC ID:	SVNDH-IPC-DB6IX	
Applicant:	ZHEJIANG DAHUA VISION TECHNOLOGY CO., LTD.	
Address of Applicant:	No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China	
Manufacturer:	ZHEJIANG DAHUA VISION TECHNOLOGY CO., LTD.	
Address of Manufacturer:	No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China	
Equipment Under Test (EUT):		
EUT Name:	Doorbell	
Model No.:	DH-DB6I	
Standard(s) :	47 CFR Part 15, Subpart E 15.407	
Date of Receipt:	2021-07-23	
Date of Test:	2021-07-26 to 2021-08-18	
Date of Issue:	2021-08-19	
Test Result:	Pass*	

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

parlan share

Parlam Zhan Laboratory Manager

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



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Revision Record				
Version	Description	Date	Remark	
00	Original	2021-08-19	1	

Authorized for issue by:		
	pichal Nic	
	Micheal Niu / Project Engineer	
	Parlam zhan	
	Parlam Zhan / Reviewer	



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## 2 Test Summary

Radio Spectrum Technical Requirement					
ltem	Standard	Method	Requirement	Result	
Antenna Requirement	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart C 15.203	Pass	
Transmission in the Absence of Data	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart C 15.407 (c)	Pass	

N/A: Not applicable

Radio Spectrum Matter Part					
ltem	Standard	Method	Requirement	Result	
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & 15.407 b(6)	Pass	
Duty Cycle	47 CFR Part 15, Subpart E 15.407	KDB 789033 II B 1	KDB 789033 D02 II B 1	Pass	
99% Bandwidth	47 CFR Part 15, Subpart E 15.407	KDB 789033 II D	N/A	Pass	
26dB Emission bandwidth	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II C 1	47 CFR Part 15, Subpart C 15.407 (a)	Pass	
Minimum 6 dB bandwidth (5.725- 5.85 GHz band )	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II C 2	47 CFR Part 15, Subpart C 15.407 (e)	Pass	
Maximum Conducted output power	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II E	47 CFR Part 15, Subpart C 15.407 (a)	Pass	
Peak Power spectrum density	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II F	47 CFR Part 15, Subpart C 15.407 (a)	Pass	
Radiated Emissions	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass	
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	Pass	
Frequency Stability	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart C 15.407 (g)	Pass	

N/A: Not applicable



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## 4 General Information

#### 4.1 Details of E.U.T.

Power supply:	12-24V=/16-24V~,0.8A
	DC 3.7V rechargeable Li-ion Battery
	Battery model:1S1P652023P
	Rated voltage:3.7V
	Capacity:0.2Ah
	Energy:0.74Wh
	Charging voltage:4.2V
Test voltage:	AC 120V/60Hz
Antenna Gain:	Ant 1:2.63dBi; (Provided by the manufacturer)
	Ant 2:1.31dBi. (Provided by the manufacturer)
	Directional gain:5.01dBi
Antenna Type:	PIFA Antenna
DFS Function:	Slave without Radar detection
TPC Eurotion:	Not Support

TPC Function: Not Support Number of **Operation Frequency:** Band Mode Frequency Range(MHz) channels UNII Band I 802.11a/n(HT20)/ac(VHT20) 5180-5240 4 802.11n(HT40)/ac(VHT40) 5190-5230 2 1 802.11ac(VHT80) 5210 UNII Band II-A 802.11a/n(HT20)/ac(VHT20) 4 5260-5320 5270-5310 2 802.11n(HT40)/ac(VHT40) 802.11ac(VHT80) 5290 1 UNII Band II-C 802.11a/n(HT20)/ac(VHT20) 5500-5700 11 5510-5670 5 802.11n(HT40)/ac(VHT40) 2 802.11ac(VHT80) 5530~5610 UNII Band III 5 802.11a/n(HT20)/ac(VHT20) 5745-5825 5755-5795 2 802.11n(HT40)/ac(VHT40) 5775 1 802.11ac(VHT80) Modulation Type: 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) Channel Spacing: 802.11a/n(HT20)/ac(VHT20): 20MHz 802.11n(HT40)/ac(VHT40): 40MHz 802.11ac(VHT80): 80MHz Data Rate: 802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: MCS0-15 802.11ac: MCS0-9



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#### 4.2 Power level setting using in test:

Channel	802.	.11a	802.11r	n(HT20)	802.11ad	(VHT20)
Channel	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
36	43	41	43	43	39	38
40	43	41	43	41	39	38
48	43	41	43	41	39	38
52	43	41	43	42	38	38
60	43	41	43	42	38	38
64	43	41	43	42	38	39
100	42	39	39	42	34	35
120	42	39	40	42	34	34
140	41	39	40	41	34	36
149	42	41	43	44	39	39
157	42	41	43	44	39	39
165	42	41	43	45	39	39
Ohannal	802.11r	n(HT40)	802.11ac	c(VHT40)		
Channel	Ant 1	Ant 2	Ant 1	Ant 2		
38	43	42	38	38		
46	43	42	38	38		
54	43	42	38	38		
62	43	43	38	38		
102	39	39	34	32		
110	39	39	34	32		
134	42	39	38	38		
151	42	43	38	38		
159	43	43	43	43		
Ohannal	802.11ac	(VHT80)				
Channel	Ant 1	Ant 2				
42	38	38				
58	38	38				
106	36	35				
122	38	35				
155	38	38				



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#### 4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
AC Adapter	Macable	MKAC-57-242500M	N/A
Notebook	Lenovo	N/A	N/A

#### 4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 <sup>-8</sup>
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 Dedicted Dever	5.2dB (Below 1GHz)
8	RF Radiated Power	5.9dB (Above 1GHz)
		4.2dB (Below 30MHz)
9	Dudinted Questions Fundation Test	4.5dB (30MHz-1GHz)
9	Radiated Spurious Emission Test	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 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**

ltem	Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal. Due Date
Con	ducted Emission at Mains Terminals (150	kHz-30MHz)				
1	EMI Test Receive	R&S	ESCI	100781	02/01/2021	01/31/2022
2	LISN	R&S	ENV216	101604	10/19/2020	10/18/2021
3	LISN	Schwarzbeck	NNLK 8129	8129-143	10/19/2020	10/18/2021
4	Pulse Limiter	R&S	ESH3-Z2	100609	02/01/2021	01/31/2022
5	CE test Cable	Thermax	/	14	10/17/2020	10/16/2021
6	Test Software	Farad	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	12/02/2020	12/01/2021
3	Spectrum Analyzer	Keysight	N9010A	MY56480443	02/01/2021	01/31/2022
4	Signal Generator	Agilent	N5182A	MY50142015	09/25/2020	09/24/2021
5	Radio Communication Test Station	Anritsu	MT8000A	6262012849	N/A	N/A
6	Radio Communication Analyzer	Anritsu	MT8821C	6201692222	N/A	N/A
7	Universal Radio Communication Tester	R&S	CMW500	159275	10/19/2020	10/18/2021
8	Universal Radio Communication Tester	R&S	CMW500	167239	04/16/2021	04/15/2022
9	Power Meter	Anritsu	ML2495A	1445010	04/15/2021	04/14/2022
10	Switcher	CCSRF	FY562	KUS2001M001 -3	10/19/2020	10/18/2021
11	AC Power Source	EXTECH	6605	1570106	N.C.R	N.C.R
12	DC Power Supply	Aglient	E3632A	MY50340053	N.C.R	N.C.R
13	6dB Attenuator	Mini-Circuits	NAT-6-2W	15542-1	N.C.R	N.C.R
14	Power Divider	AISI	IOWOPE2068	PE2068	N.C.R	N.C.R
15	Filter	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
16	Conducted test cable	/	RF01-RF04	/	04/15/2021	04/14/2022
17	Software	BST	TST-PASS	N/A	N/A	N/A
18	Temp. / Humidity Chamber	TERCHY	MHK-120AK	X30109	04/15/2021	04/14/2022
19	Thermometer	Anymetre	TH603	CCS007	10/16/2020	10/15/2021
RF R	adiated Test			•		
1	Spectrum Analyzer	R&S	FSV40	101493	10/19/2020	10/18/2021
2	Signal Generator	Agilent	E8257C	MY43321570	10/19/2020	10/18/2021
3	Loop Antenna	Schwarzbeck	HXYZ9170	9170-108	02/22/2021	02/21/2022
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	02/22/2021	02/21/2022
9	Pre-Amplifier(30MHz~18GHz)	LNA	/	/	04/15/2021	04/14/2022
10	Amplifier(18~40GHz)	COM-POWER	PAM-840A	461332	10/23/2020	10/22/2021
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 $\sim$ 5770 MHz $)$	MICRO-TRONICS	BRC50704-01	2	N.C.R	N.C.R
14	Filter (5690 MHz $\sim$ 5930 MHz $)$	MICRO-TRONICS	BRC50705-01	4	N.C.R	N.C.R
15	Filter (5150 MHz~5350 MHz)	MICRO-TRONICS	BRC50703-01	2	N.C.R	N.C.R



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16	Filter (885 MHz $\sim$ 915 MHz)	MICRO-TRONICS	BRM14698	1	N.C.R	N.C.R
17	Filter (815 MHz $\sim$ 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	/	RE01-RE04	/	04/15/2021	04/14/2022
24	Software	Faratronic	EZ_EMC-v 3A1	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

#### 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 antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### EUT Antenna:

The antenna 1 and antenna 2 is PIFA antenna, and all no consideration of replacement. The best case gain of the antenna 1 is 2.63 dBi and antenna 2 is 1.31dBi.

Antenna location: Refer to Appendix(External Photos)



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#### 6.2 Transmission in the Absence of Data

#### 6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.407 (c)

#### 6.2.2 Conclusion

Standard Requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met.

EUT Details:

WIFI chip (RTL8822BS) support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.



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### 7 Radio Spectrum Matter Test Results

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

Test Requirement47 CFR Part 15, Subpart C 15.207 & 15.407 b(6)Test Method:ANSI C63.10 (2013) Section 6.2Limit:Limit:

	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 Environ	ment:				
	Temperature:	24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar				
	Pretest these	b:Charge + TX mode (Band 1)_Keep the EUT in charging and continuously				
	modes to find	transmitting mode with all modulation types. All data rates for each modulation				
	the worst case:	type have been tested and found the data rate @ 6Mbps is the worst case of IEEE				
		802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate				
		@ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of				
		IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE				
		802.11ac(VHT80). Only the data of worst case is recorded in the report.				
		c:Charge + TX mode (Band 2A)_Keep the EUT in charging and continuously				
		transmitting mode with all modulation types. All data rates for each modulation				
		type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate				
		@ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the				
		worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of				
		IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE				
		802.11ac(VHT80). Only the data of worst case is recorded in the report.				
		d:Charge + TX mode (Band 2C)_Keep the EUT in charging and continuously				
		transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE				
		802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate				
		@ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the				
		worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of				
		IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE				
		802.11ac(VHT80). Only the data of worst case is recorded in the report.				
		e:Charge + TX mode (Band 3)_Keep the EUT in charging and continuously				
		transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE				
		802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate				
		@ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the				
		worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of				
		IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE				
		802.11ac(VHT80). Only the data of worst case is recorded in the report.				
	The final test	b:Charge + TX mode (Band 1)_Keep the EUT in charging and continuously				
	mode:	transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE				
		802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate				
		@ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the				
		worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of				
		IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE				
		802.11ac(VHT80). Only the data of worst case is recorded in the report.				



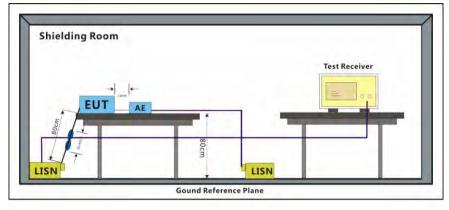
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#### 7.1.2 The worst case for final test:



#### 7.1.3 Measurement Procedure and Data

1) The mains terminal disturbance voltage test was conducted in a shielded room.

2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50 $\mu$ H + 50hm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,

4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

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



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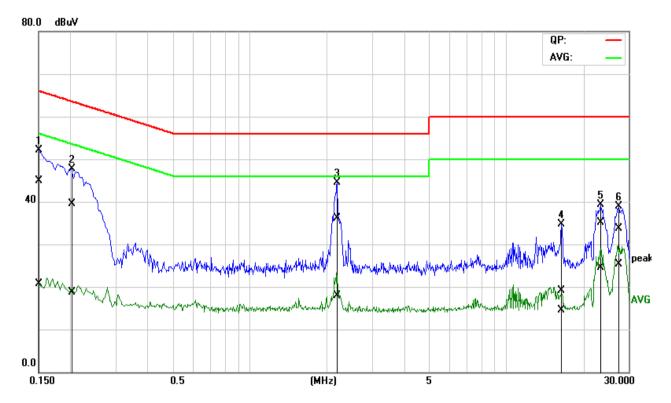
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Mode:b; Line:Live Line



No.	Frequency	QuasiPeak	Average	Correction	QuasiPeak	Average	QuasiPeak	Average	QuasiPeak	Average	Remark
		reading	reading	factor	result	result	limit	limit	margin	margin	
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1500	25.54	1.23	19.46	45.00	20.69	66.00	56.00	-21.00	-35.31	Pass
2	0.2027	20.06	-0.76	19.46	39.52	18.70	63.50	53.50	-23.98	-34.80	Pass
3*	2.2065	16.49	-1.62	19.60	36.09	17.98	56.00	46.00	-19.91	-28.02	Pass
4	16.4078	-1.04	-5.76	20.17	19.13	14.41	60.00	50.00	-40.87	-35.59	Pass
5	23.3388	14.86	4.10	20.33	35.19	24.43	60.00	50.00	-24.81	-25.57	Pass
6	27.4472	13.33	4.89	20.43	33.76	25.32	60.00	50.00	-26.24	-24.68	Pass



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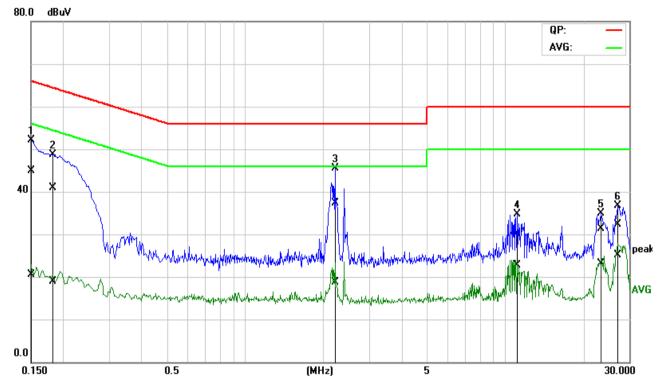
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Mode:b; Line:Neutral Line



No.	Frequency	QuasiPeak	Average	Correction	QuasiPeak	Average	QuasiPeak	Average	QuasiPeak	Average	Remark
		reading	reading	factor	result	result	limit	limit	margin	margin	
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1500	25.54	1.14	19.42	44.96	20.56	66.00	56.00	-21.04	-35.44	Pass
2	0.1805	21.42	-0.52	19.43	40.85	18.91	64.46	54.46	-23.61	-35.55	Pass
3*	2.2158	17.67	-0.91	19.58	37.25	18.67	56.00	46.00	-18.75	-27.33	Pass
4	11.1685	10.12	2.64	20.00	30.12	22.64	60.00	50.00	-29.88	-27.36	Pass
5	23.2721	11.04	2.74	20.32	31.36	23.06	60.00	50.00	-28.64	-26.94	Pass
6	27.1924	11.84	4.62	20.43	32.27	25.05	60.00	50.00	-27.73	-24.95	Pass



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#### 7.2 Duty Cycle

Test RequirementKDB 789033 D02 II B 1Test Method:KDB 789033 II B 1

#### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C 50 % RH Atmospheric Pressure: 1010 mbar Humidity: Test mode: b:Charge + TX mode (Band 1) Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report. c:Charge + TX mode (Band 2A) Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report. d:Charge + TX mode (Band 2C)\_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report. e:Charge + TX mode (Band 3) Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



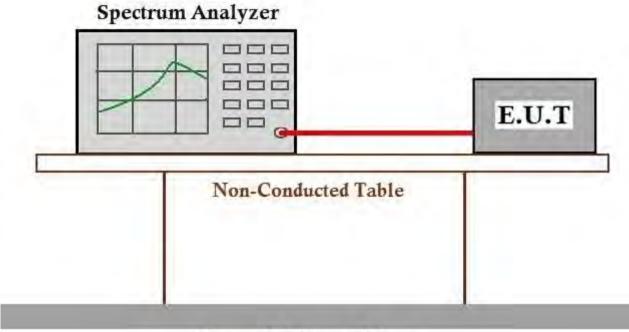
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#### 7.2.2 Test Setup Diagram



### **Ground Reference Plane**

#### 7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM210700815402



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#### 7.3 99% Bandwidth

Test Requirement N/A Test Method: KDB 789033 II D

#### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C 50 % RH Atmospheric Pressure: 1010 mbar Humidity: Test mode: b:Charge + TX mode (Band 1) Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report. c:Charge + TX mode (Band 2A) Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report. d:Charge + TX mode (Band 2C)\_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of

IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

e:Charge + TX mode (Band 3)\_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

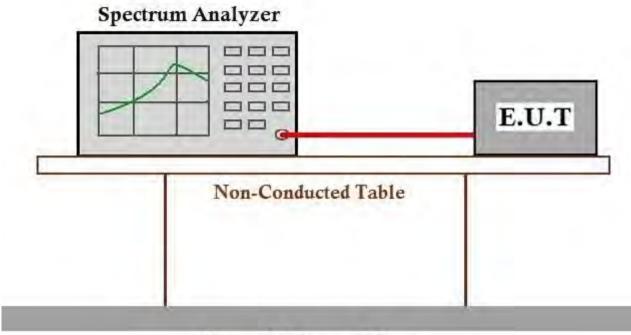


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#### 7.3.2 Test Setup Diagram



### **Ground Reference Plane**

#### 7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM210700815402



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#### 7.4 26dB Emission bandwidth

Test Requirement	47 CFR Part 15, Subpart C 15.407 (a)
Test Method:	KDB 789033 D02 II C 1

#### 7.4.1 E.U.T. Operation

Operating Environment:

Temperature:	24 °C	Humidity:	50	% RH	Atmospheric Pressure:	1010	mbar
Test mode:	transmitting m type have bee 802.11a; data @ MCS0 is th worst case of IEEE 802.11a	ode with all m n tested and f rate @ MCS0 e worst case o IEEE 802.11a c(VHT40); dat	iodul ounc ) is th of IEE ic(VH ta rat	ation types. I the data rate worst case EE 802.11n IT20); data re @ MCS0	JT in charging and contin All data rates for each m ate @ 6Mbps is the worst se of IEEE 802.11n(HT20 (HT40); data rate @ MCS rate @ MCS0 is the worst is the worst case of IEEE ase is recorded in the repo	iodulatio case of )); data i S0 is the st case o	TEEE rate
	transmitting m type have bee 802.11a; data @ MCS0 is th worst case of IEEE 802.11a	ode with all m n tested and f rate @ MCS0 e worst case o IEEE 802.11a c(VHT40); dat	iodula ounc ) is th of IEE ic(VH ta rat	ation types. I the data rate worst case EE 802.11n IT20); data ie @ MCS0	EUT in charging and conti All data rates for each m ate @ 6Mbps is the worst se of IEEE 802.11n(HT20 (HT40); data rate @ MCS rate @ MCS0 is the wors is the worst case of IEEE ase is recorded in the repo	iodulation case of (); data i S0 is the st case of E	on FIEEE rate
	transmitting m type have bee 802.11a; data @ MCS0 is th	ode with all m n tested and f rate @ MCS0 e worst case o	ioduli iounc ) is th of IEE	ation types. I the data rate worst cas EE 802.11n	EUT in charging and cont All data rates for each m ate @ 6Mbps is the worst se of IEEE 802.11n(HT20 (HT40); data rate @ MCS rate @ MCS0 is the wors	odulatic case of ); data i 30 is the	on IEEE rate

IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

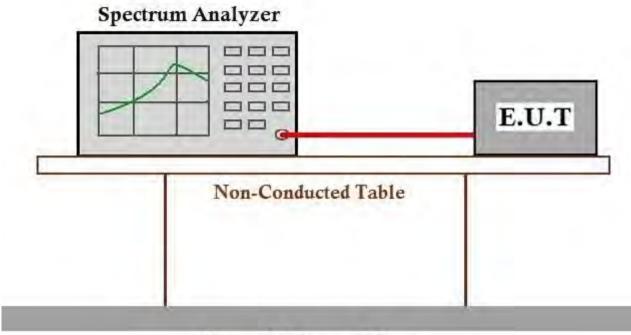


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#### 7.4.2 Test Setup Diagram



### **Ground Reference Plane**

#### 7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM210700815402



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#### 7.5 Minimum 6 dB bandwidth (5.725-5.85 GHz band )

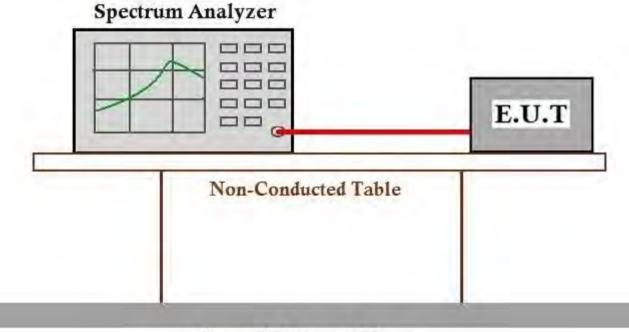
Test Requirement	47 CFR Part 15, Subpart C 15.407 (e)
Test Method:	KDB 789033 D02 II C 2
Limit:	≥500 kHz

#### 7.5.1 E.U.T. Operation

**Operating Environment:** 

Temperature:24 °CHumidity:50 % RHAtmospheric Pressure:1010 mbarTest mode:e:Charge + TX mode (Band 3)\_Keep the EUT in charging and continuously<br/>transmitting mode with all modulation types. All data rates for each modulation<br/>type have been tested and found the data rate @ 6Mbps is the worst case of IEEE<br/>802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate<br/>@ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the<br/>worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of<br/>IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of<br/>IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

#### 7.5.2 Test Setup Diagram



### **Ground Reference Plane**

#### 7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM210700815402



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#### 7.6 Maximum Conducted output power

Test Requirement47 CFR Part 15, Subpart C 15.407 (a)Test Method:KDB 789033 D02 II ELimit:Limit:

Frequenc	y band(MHz)	Limit		
E1E0 E	250	≤1W(30dBm) for master device		
5150-5	230	≤250mW(24dBm) for client device		
5250-5	5350 ≤250mW(24dBm) for client device or 11dBm+10logB*			
5470-5	250mW(24dBm) for client device or 11dBm+10logB*			
5725-5	25-5850 ≤1W(30dBm)			
Remark:	* Where B is the	he 26dB emission bandwidth in MHz.		
		The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent roltage.		



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#### 7.6.1 E.U.T. Operation

•	L.O.T. Operation								
	Operating Environ	ment	:						
	Temperature:	24	°C	Humidity:	50	% RH	Atmospheric Pressure:	1010	mbar
	Temperature: Test mode:	b:Cl tran type 802 @ M wor IEE 802 c:Cl tran type 802 d:Cl tran type 802 d:Cl tran type 802 @ M wor IEE 802 d:Cl tran type 802 @ M wor IEE 802 d:Cl tran type 802 @ M wor IEE 802 d:Cl tran type 802 d tran type 802 d:Cl tran type 802 d: tran type 802 d:Cl tran type 802 d tran type 802 d tran type 802 d tran type 802 d tran type 802 d tran type 802 d tran type 802 d tran type 802 d tran type 802 d tran type 802 d tran type 802 d tran type 802 d tran type 802 d tran type 80 d tran type 80 tran type 80 d tran type 80 d tran type 80 tran type 80 tran type 80 tran type 80 tran type 80 tran type 80 tran type 80 t tran t tran type 80 tran tran type tran type tran tran type tran tran type t tran type tran tran type tran type t tran tran type t tran tran type t tran tran tran tran tran tran type tran tran tran type t tran tran tran tran tran tran tran tr	harge + TX smitting mo have been .11a; data r ACS0 is the st case of IE 802.11ac (VHT8 harge + TX smitting mo have been .11a; data r ACS0 is the st case of IE 802.11ac (VHT8 harge + TX smitting mo have been .11a; data r ACS0 is the st case of IE 802.11ac (VHT8 harge + TX smitting mo have been .11a; data r ACS0 is the st case of IE 802.11ac .11ac (VHT8 harge + TX smitting mo have been .11a; data r ACS0 is the st case of IE	mode (Band de with all m tested and ate @ MCS0 worst case EE 802.11a (VHT40); da 30). Only the mode (Band de with all m tested and ate @ MCS0 worst case EE 802.11a (VHT40); da 30). Only the mode (Band de with all m tested and ate @ MCS0 worst case EE 802.11a (VHT40); da 30). Only the mode (Band de with all m tested and ate @ MCS0 worst case EE 802.11a (VHT40); da 30). Only the mode (Band de with all m tested and ate @ MCS0 worst case	1)_/ nodul found ) is the of IEI ac(VF ta rate 2A)_ nodul found ) is the of IEI ac(VF ta rate 12C)_ nodul found ) is the of IEI ac(VF ta rate ) found ) found ) is the of IEI ac(VF ta rate)_ ) found ) found	Keep the E ation types the data in the worst ca EE 802.11 (T20); data in of worst of of worst of the data in the worst ca EE 802.11 (T20); data in worst of the data in the data in the worst ca EE 802.11 (T20); data in worst ca EE 802.11	UT in charging and continues. All data rates for each marate @ 6Mbps is the worst ase of IEEE 802.11n(HT20) n(HT40); data rate @ MCS0 is the worst case of IEEE ase is recorded in the report EUT in charging and continues. All data rates for each marate @ 6Mbps is the worst case of IEEE 802.11n(HT20) n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11n(HT20) n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11n(HT20) is the worst case of IEEE 802.11n(HT20) n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11n(HT20) n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11n(HT20) n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11n(HT20) n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11n(HT20) n(HT40); data rate @ MCS0 is the worst case is recorded in the report case is recorded in the report case is recorded in the report of IEEE 802.11n(HT20) n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11n(HT20) n(HT40); data rates for each marate @ 6Mbps is the worst case of IEEE 802.11n(HT20) n(HT40); data rates for each marate @ 6Mbps is the worst case of IEEE ase is recorded in the report of IEEE 802.11n(HT20) n(HT40); data rates for each marate @ 6Mbps is the worst case of IEEE 802.11n(HT20) n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11n(HT20) n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11n(HT20) n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11n(HT20) n(HT40); data rate @ MCS0 n(HT	uously odulatic case of ); data r 50 is the t case of ort. nuously odulatic case of ); data r 50 is the t case of 0 is the t case of 0 is the t case of 0 is the t case of 0 is the	on FIEEE of fileEE rate of fileEE rate of fileEE rate of fileEE
		wor IEE	st case of IE E 802.11ac	EEE 802.11a (VHT40); da	ac(V <mark>⊢</mark> ta rat	IT20); data e @ MCS	a rate @ MCS0 is the wors 0 is the worst case of IEEE case is recorded in the repo	t case c	

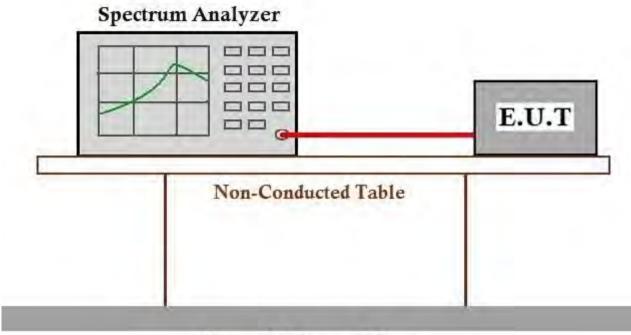


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#### 7.6.2 Test Setup Diagram



### **Ground Reference Plane**

#### 7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM210700815402



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#### 7.7 Peak Power spectrum density

Test Requirement47 CFR Part 15, Subpart C 15.407 (a)Test Method:KDB 789033 D02 II FLimit:Limit:

Frequenc	y band(MHz)	Limit			
5150-5250		≤17dBm in 1MHz for master device			
		≤11dBm in 1MHz for client device			
5250-5	350	≤11dBm in 1MHz for client device			
5470-5	5725	≤11dBm in 1MHz for client device			
5725-5	850	≤30dBm in 500 kHz			
Remark: The maximum power spectral density is measured as a conducted emission by connection of a calibrated test instrument to the equipment under test.					



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#### 7.7.1 E.U.T. Operation

•									
	Operating Environ	ment	:						
	Temperature:	24	°C	Humidity:	50	% RH	Atmospheric Pressure:	1010	mbar
	Test mode:	· · · ·							IEEE ate
									on IEEE rate
		d:Charge + TX mode (Band 2C)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report. e:Charge + TX mode (Band 3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.						odulatio case of ; data r 0 is the case o	n IEEE ate
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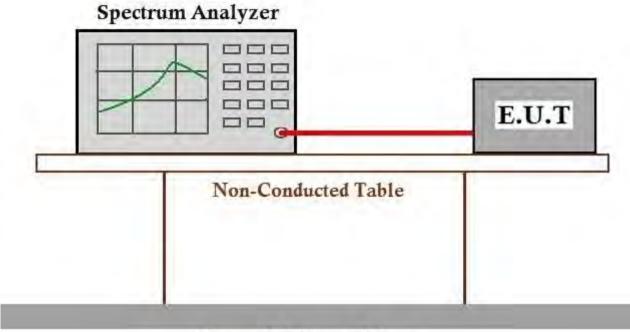
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#### 7.7.2 Test Setup Diagram



### **Ground Reference Plane**

#### 7.7.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM210700815402



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#### 7.8 Radiated Emissions

Test Requirement47 CFR Part 15, Subpart C 15.209 & 15.407(b)Test Method:KDB 789033 D02 II GLimit:Limit:

#### Limit:

For transmitters operating in All emissions outside of the 5.15-5.35 GHz band shall not exceed an the 5.15-5.25 GHz band: e.i.r.p. of -27 dBm/MHz (68.2dBuV/m). For transmitters operating in All emissions outside of the 5.15-5.35 GHz band shall not exceed an the 5.25-5.35 GHz band: e.i.r.p. of -27 dBm/MHz (68.2dBuV/m). All emissions outside of the 5.47-5.725 GHz band shall not exceed an For transmitters operating in the 5.47-5.725 GHz band: e.i.r.p. of -27 dBm/MHz (68.2dBuV/m). (i) All emissions shall be limited to a level of -27 dBm/MHz For transmitters operating in the 5.725-5.85 GHz band: (68.2dBuV/m) at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz (105.2dBuV/m) at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz (110.8dBuV/m) at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz (122.2dBuV/m) at the band edge.



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#### 7.8.1 E.U.T. Operation

•									
	Operating Environ	ment	:						
	Temperature:	24	°C	Humidity:	50	% RH	Atmospheric Pressure:	1010	mbar
	Test mode:								IEEE ate
									n IEEE ate
d:Charge + TX mode (Band 2C)_Keep the EUT in charging and contin transmitting mode with all modulation types. All data rates for each mo type have been tested and found the data rate @ 6Mbps is the worst of 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20) @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the repo						odulatio case of ); data r 0 is the case o	n IEEE ate		
		e:Charge + TX mode (Band 3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.						IEEE ate	



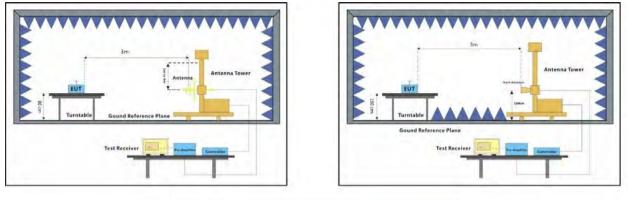
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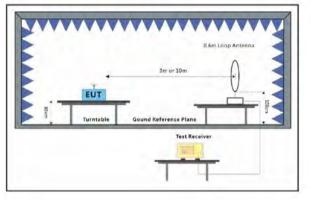
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#### 7.8.2 Test Setup Diagram







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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. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.

3. Scan from 9kHz to 40GHz, 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. 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.

5. This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for a modulation and MIMO antenna operation for n/ac modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.



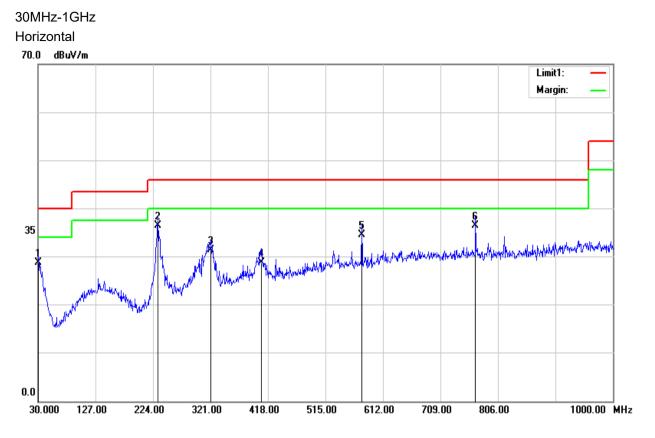
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No.	Frequency	ency Reading Correct R		Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	30.9700	3.36	25.38	28.74	40.00	-11.26	100	65	QP
2	231.7600	18.33	18.20	36.53	46.00	-9.47	100	267	QP
3	321.0000	10.05	21.36	31.41	46.00	-14.59	100	315	QP
4	407.3300	5.14	23.69	28.83	46.00	-17.17	100	267	QP
5	576.1100	8.37	26.19	34.56	46.00	-11.44	100	213	QP
6	768.1700	8.95	27.61	36.56	46.00	-9.44	100	27	QP



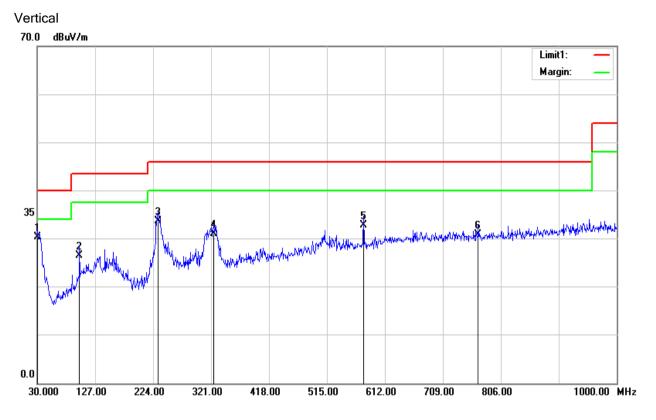
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No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	30.0000	4.35	25.93	30.28	40.00	-9.72	100	352	QP
2	100.8100	8.04	18.54	26.58	43.50	-16.92	100	294	QP
3	232.7300	15.48	18.26	33.74	46.00	-12.26	100	360	QP
4	325.8500	9.53	21.53	31.06	46.00	-14.94	100	291	QP
5	576.1100	6.55	26.19	32.74	46.00	-13.26	100	294	QP
6	768.1700	3.35	27.61	30.96	46.00	-15.04	100	4	QP



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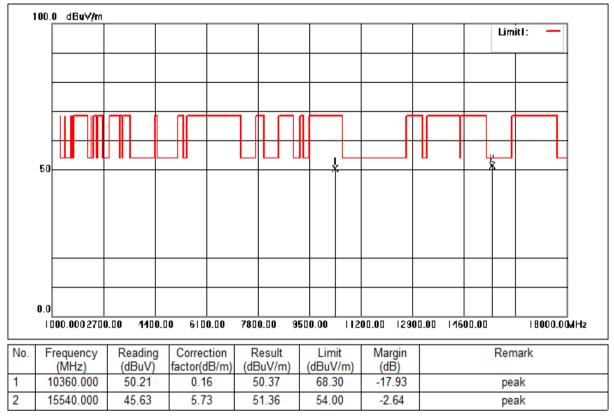
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#### Above 1GHz

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



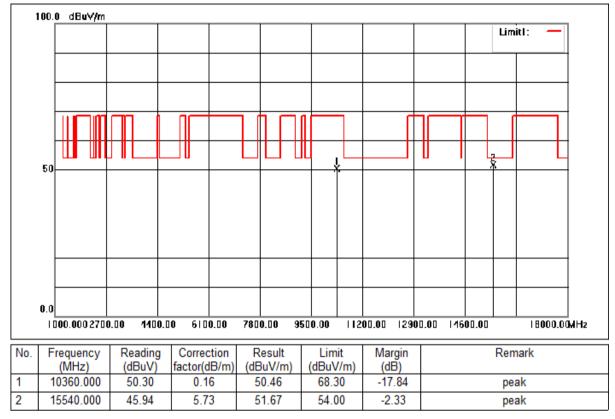


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Mode:b; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low

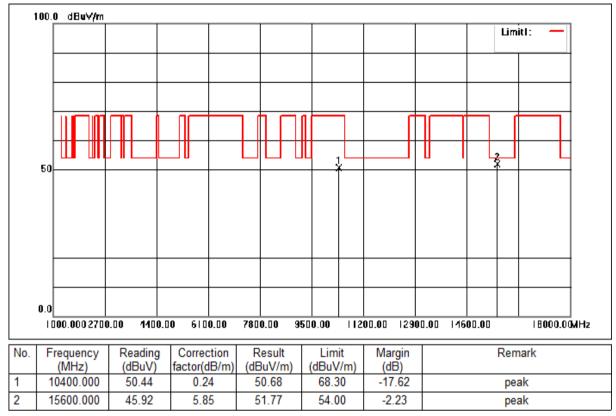


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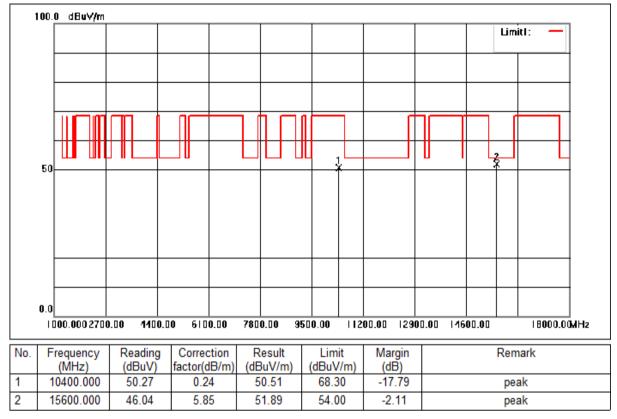


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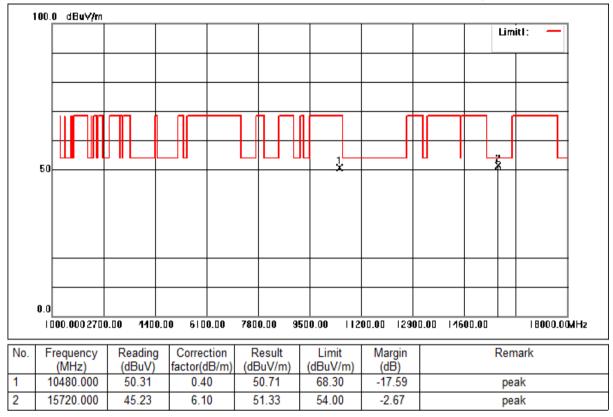


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Mode:b; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High



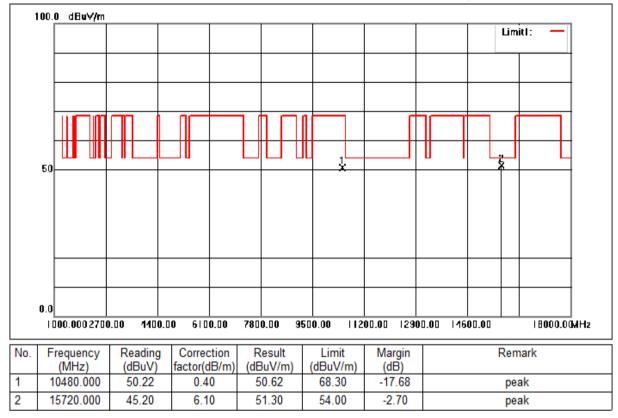
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Mode:b; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High

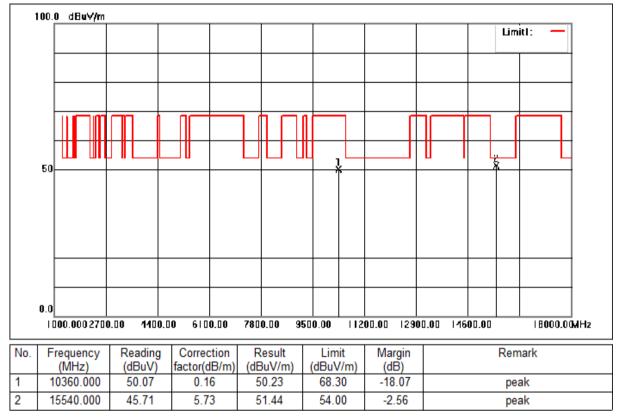


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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low

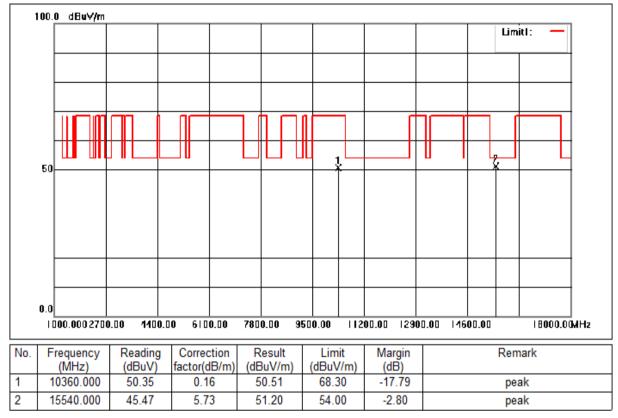


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Mode:b; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low

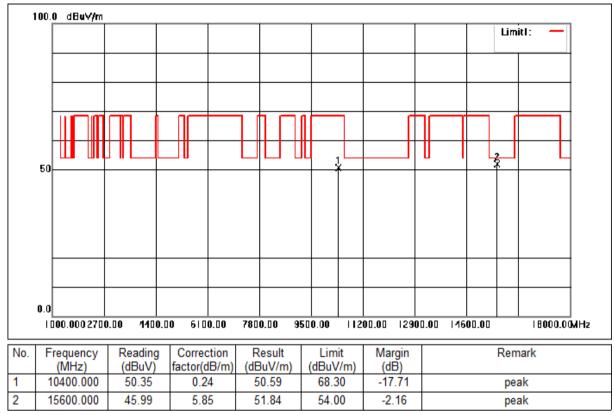


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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle

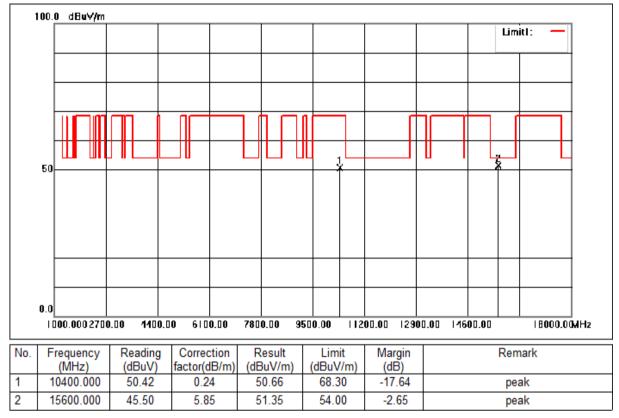


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Mode:b; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle

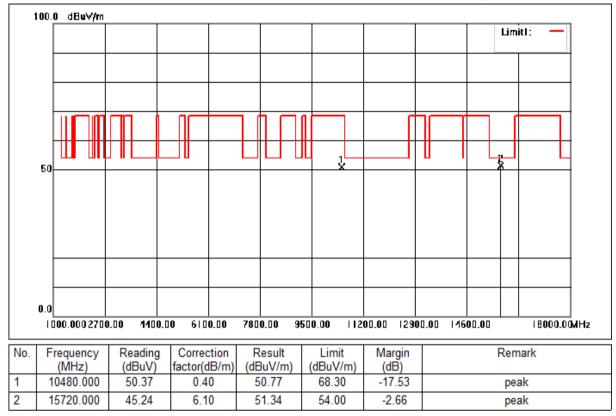


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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High

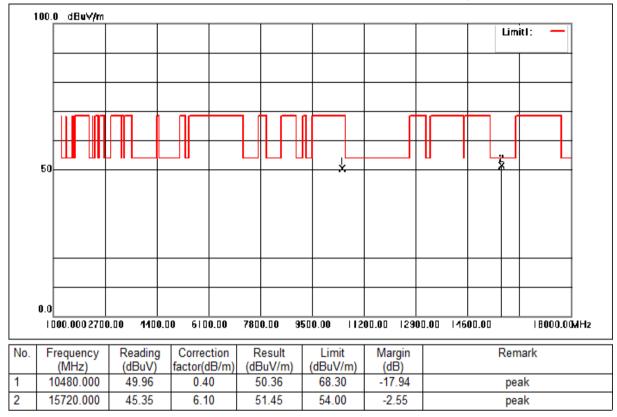


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Mode:b; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High

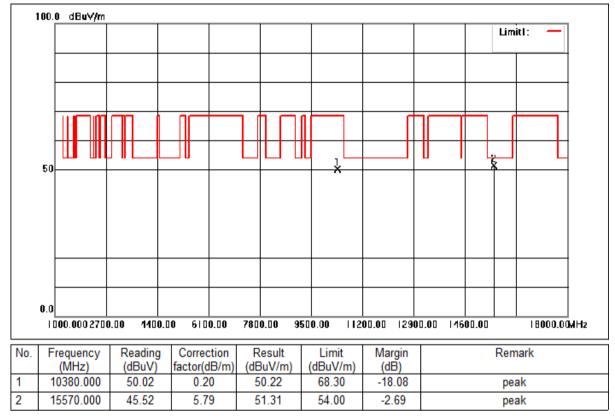


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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low

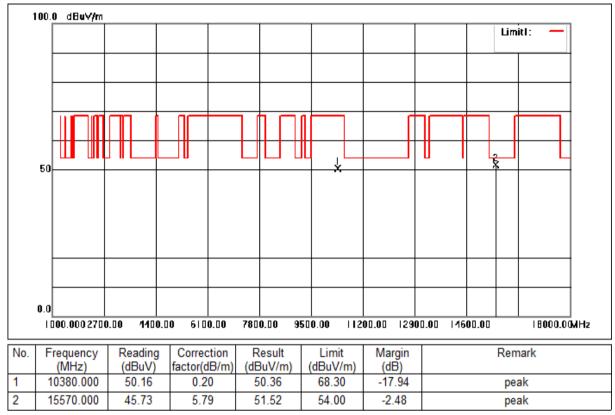


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Mode:b; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low

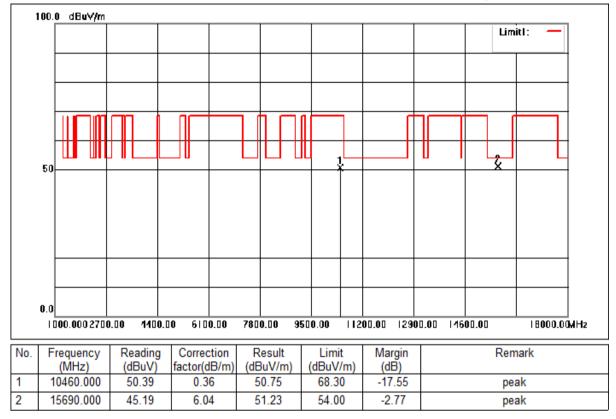


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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



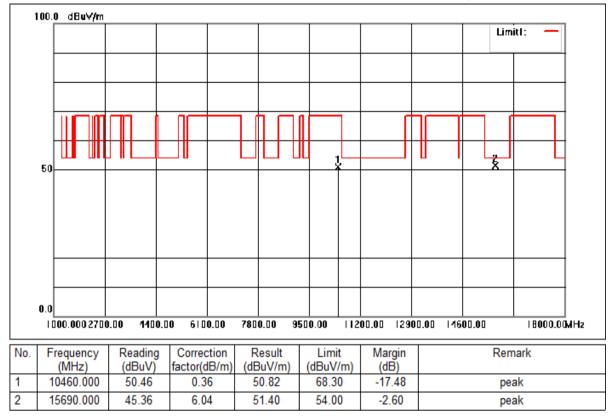
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Mode:b; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High

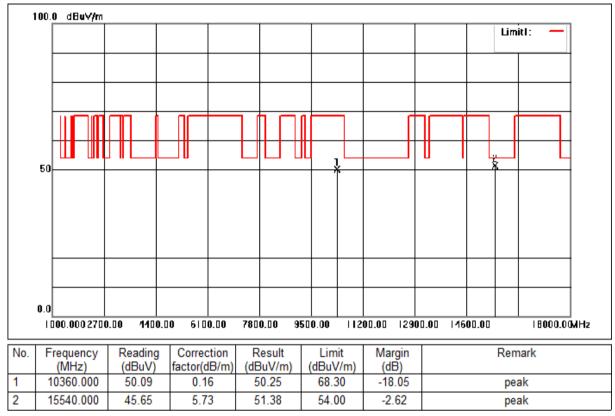


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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low

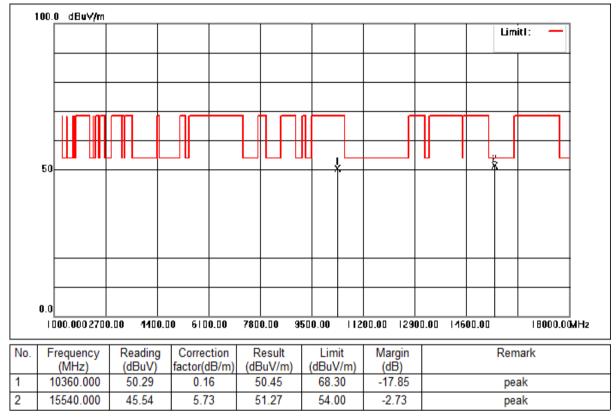


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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low



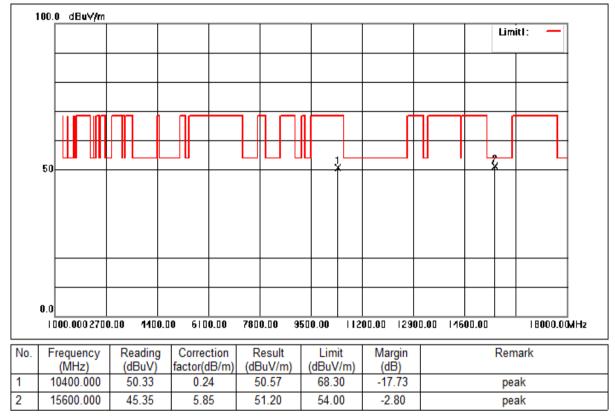
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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:middle



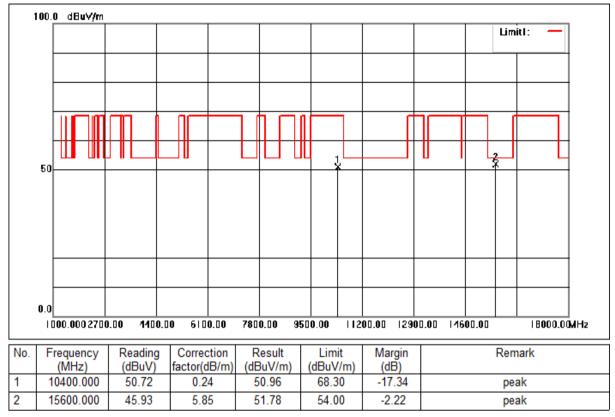
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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:middle

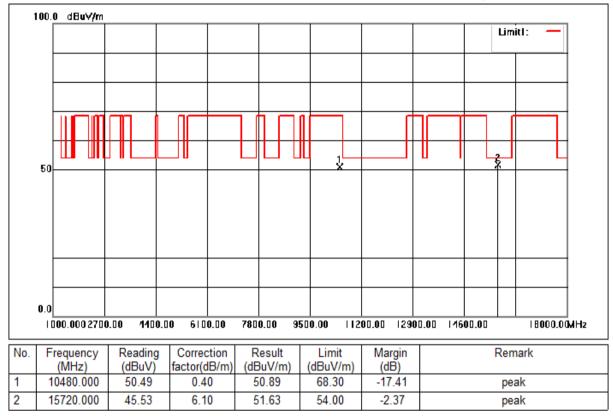


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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High



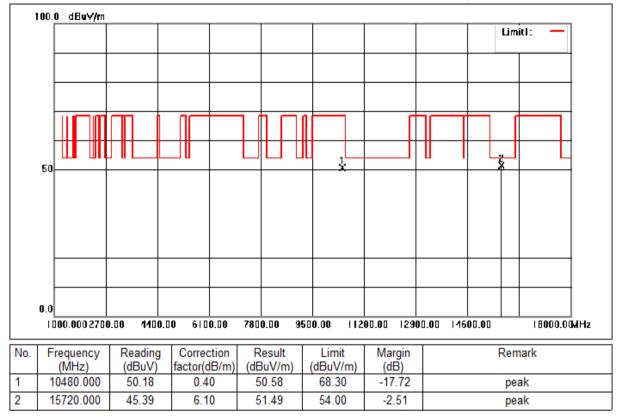
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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High



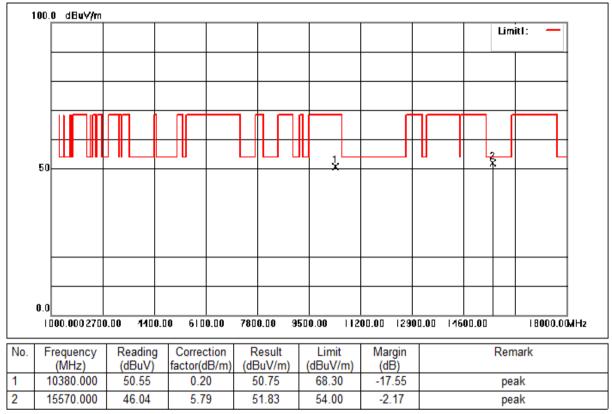
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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low

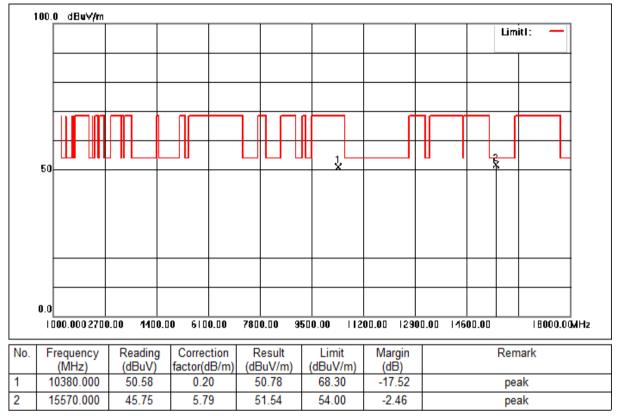


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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low

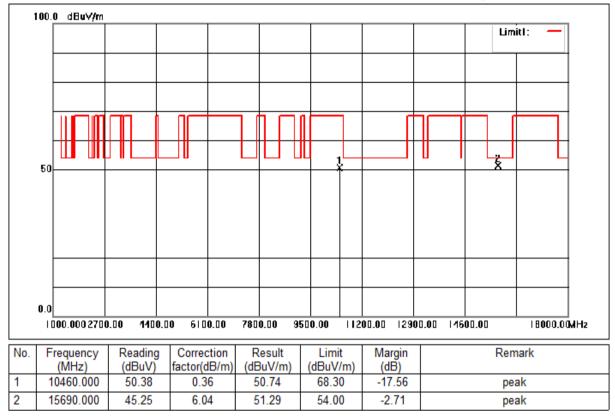


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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High



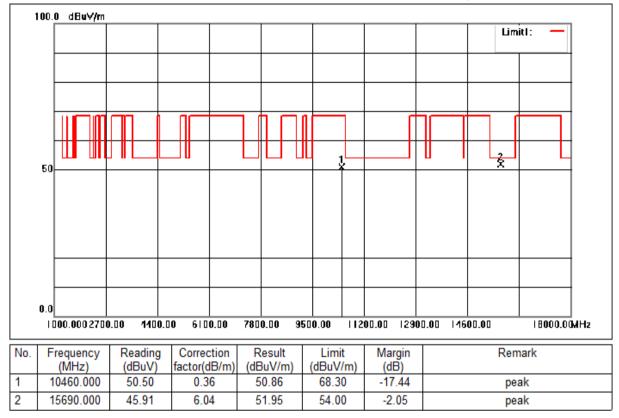
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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High

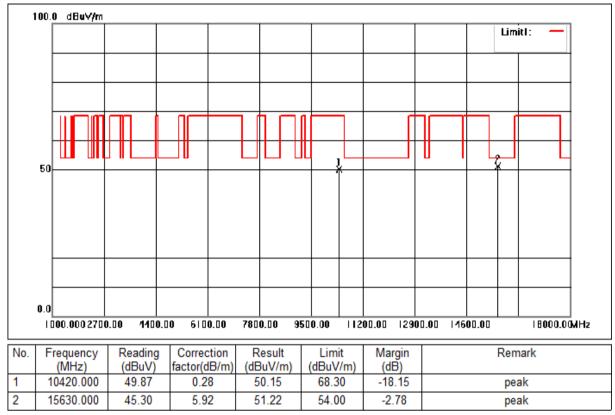


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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:middle

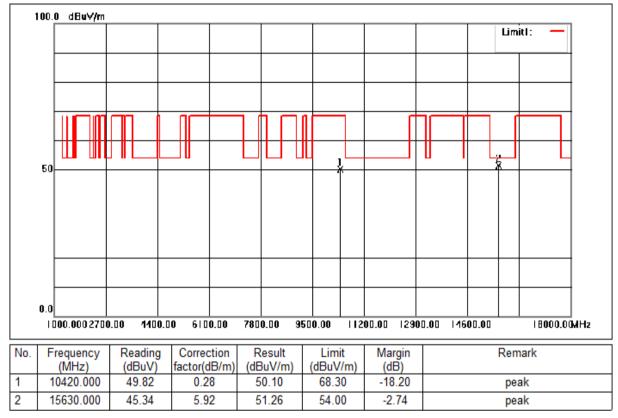


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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:middle

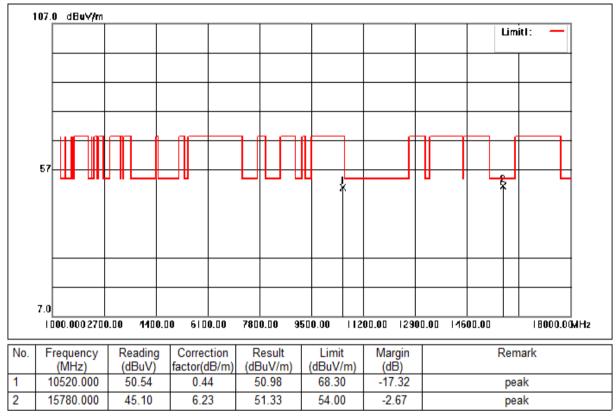


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Mode:c; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



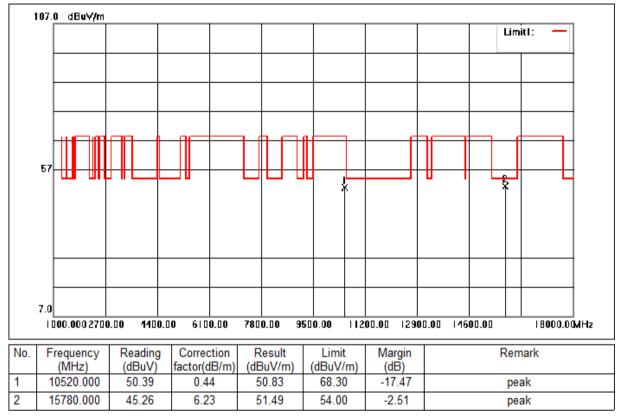
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Mode:c; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low

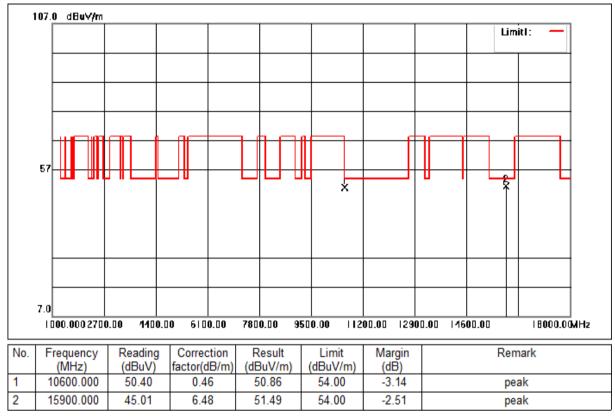


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Mode:c; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:middle



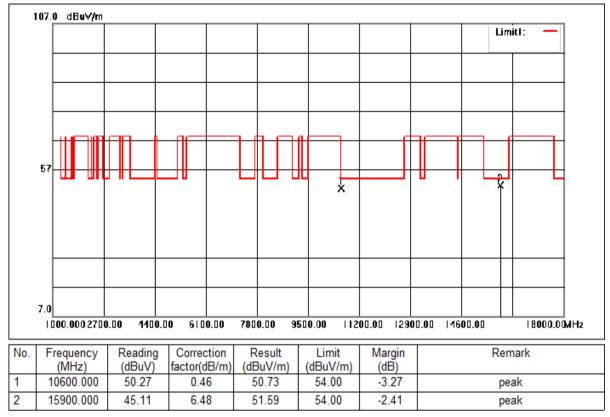
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Mode:c; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:middle



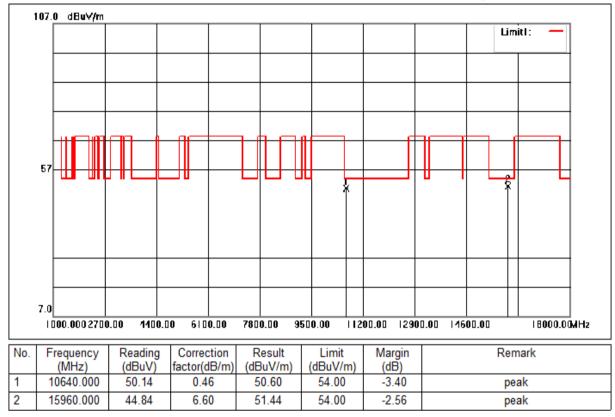
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Mode:c; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High



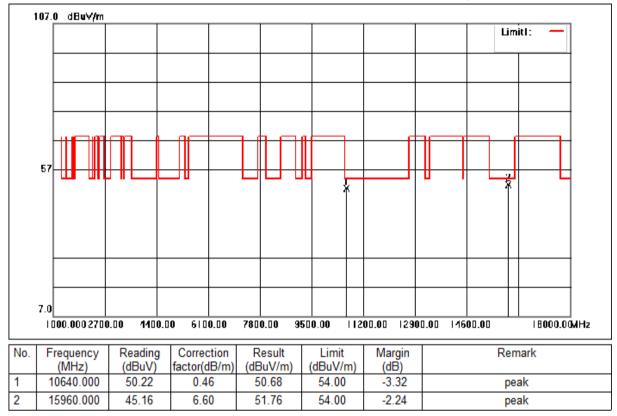
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Mode:c; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High

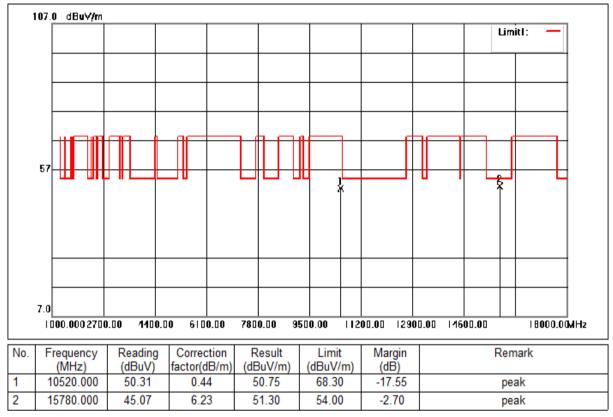


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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



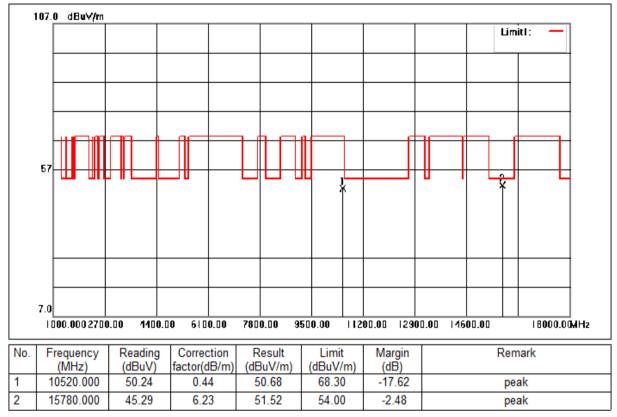
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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



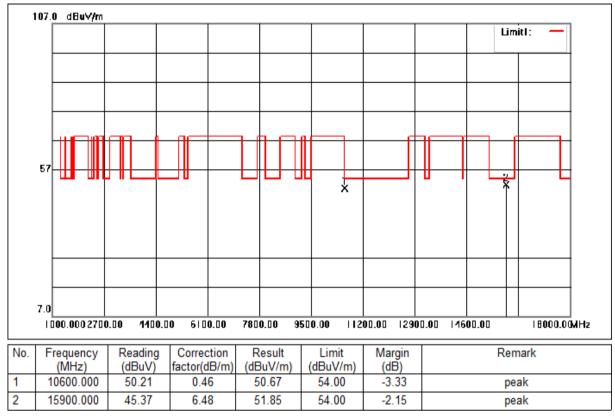
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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle



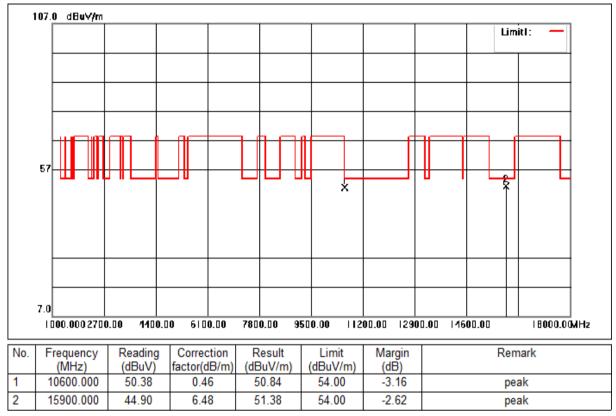
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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle

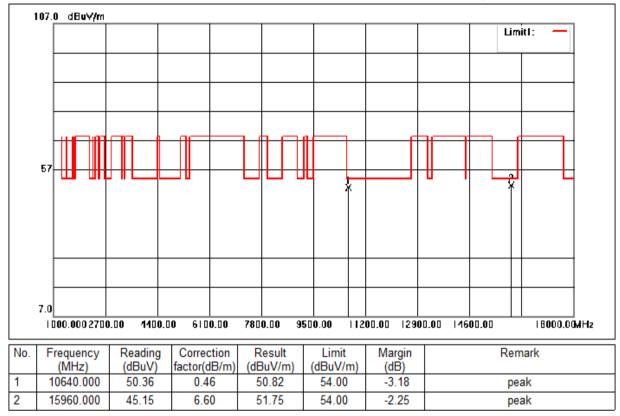


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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



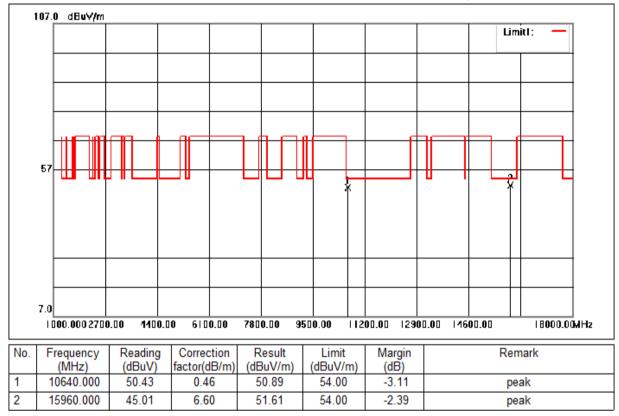
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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High

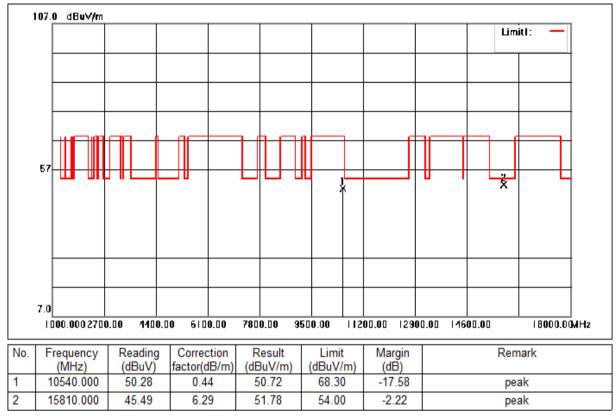


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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



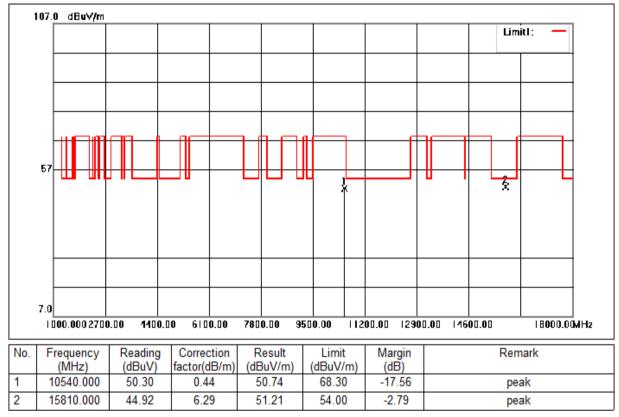
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# SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

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

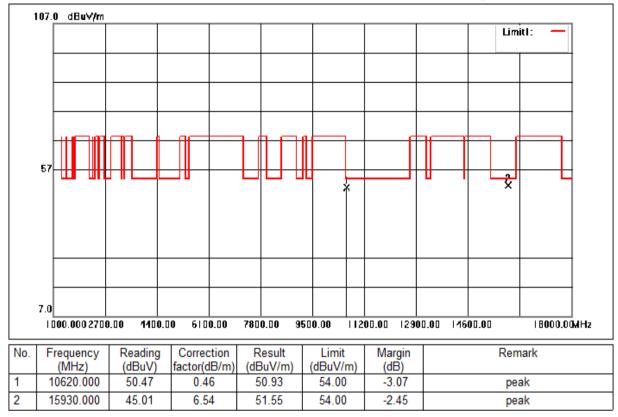


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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



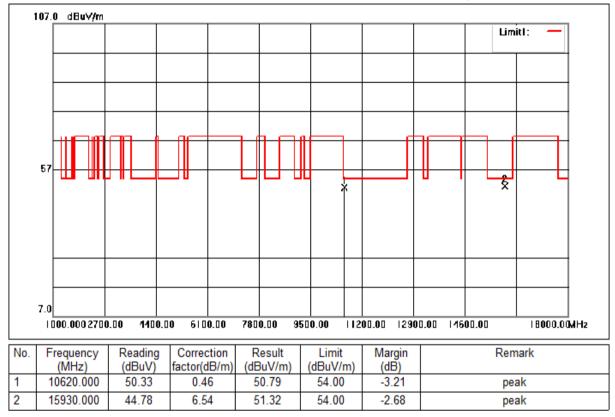
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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High

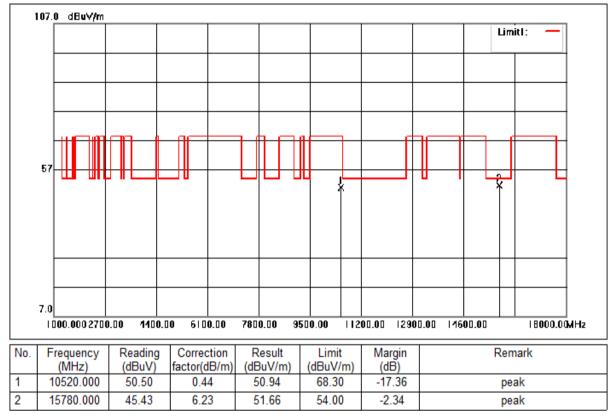


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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low



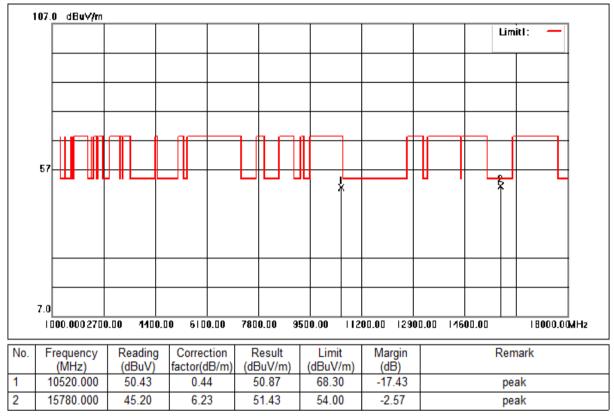
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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low



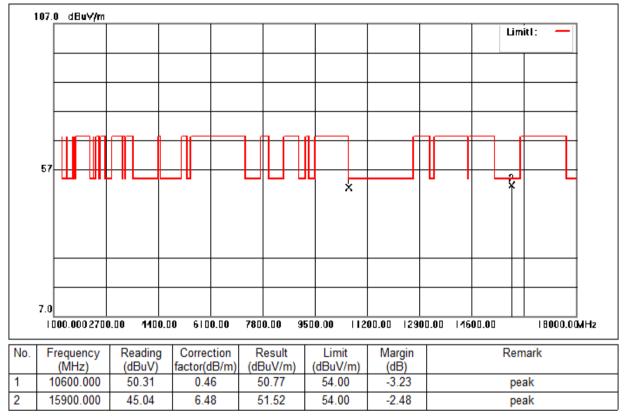
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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:middle

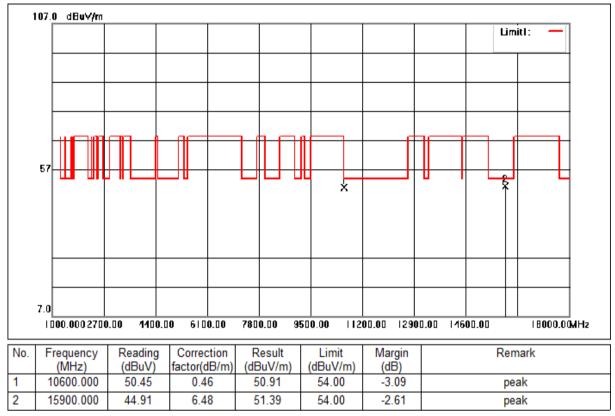


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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:middle

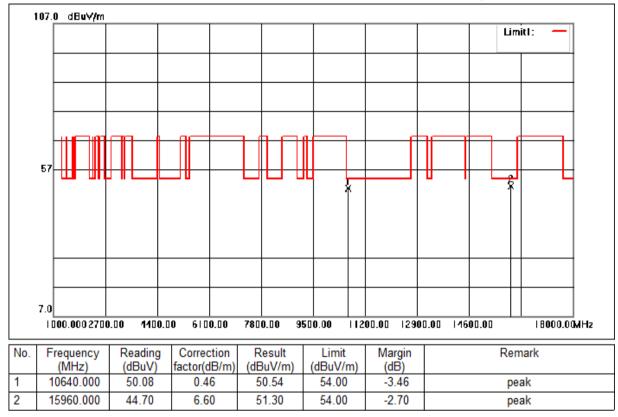


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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High

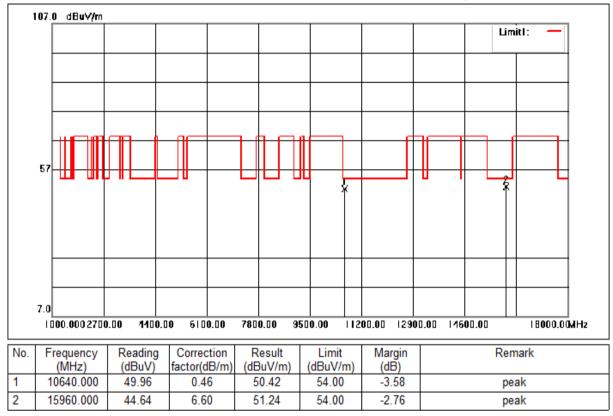


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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High

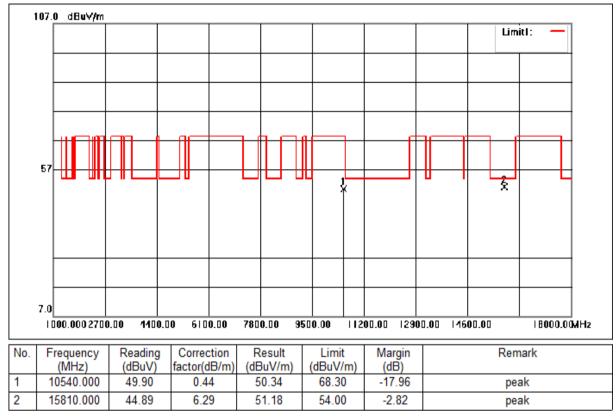


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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



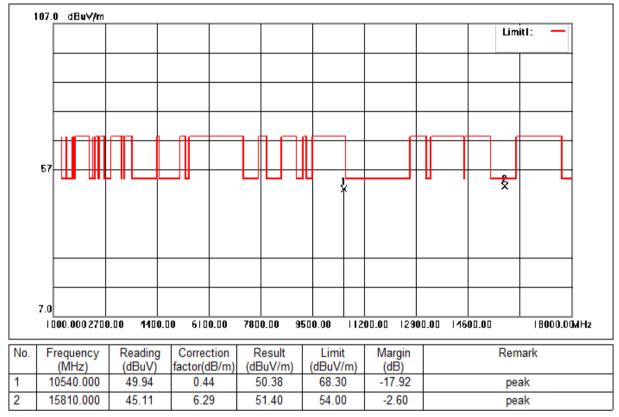
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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



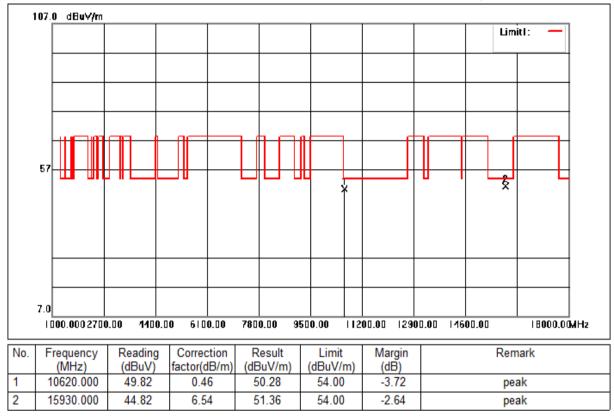
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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High

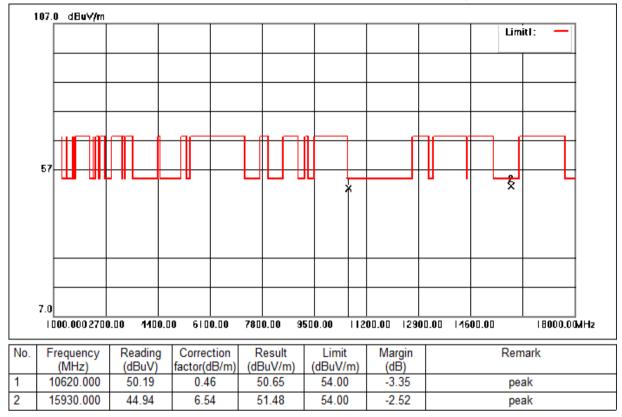


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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High

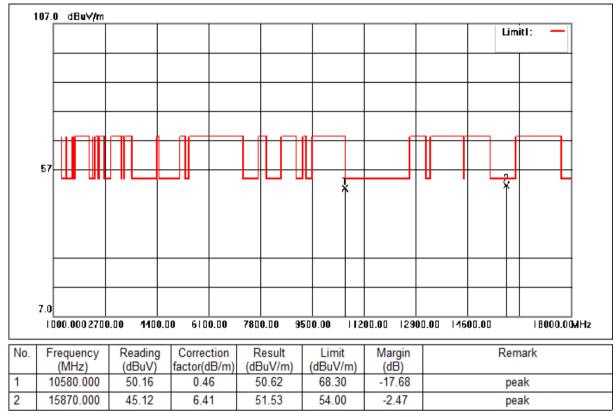


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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:middle



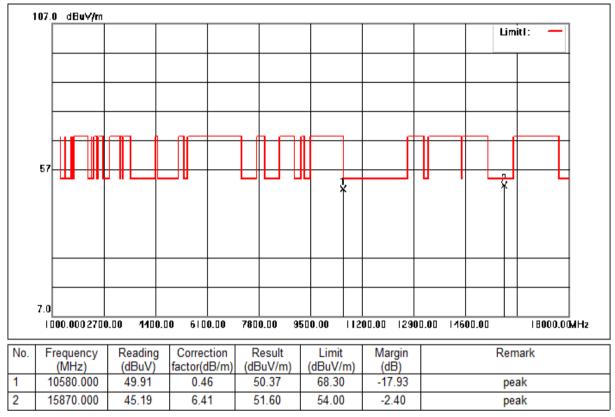
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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:middle

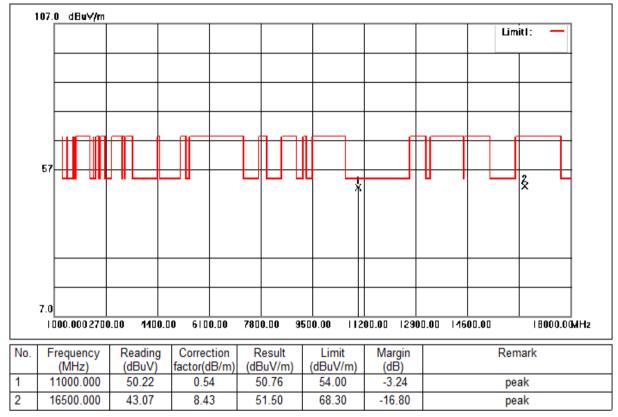


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Mode:d; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low

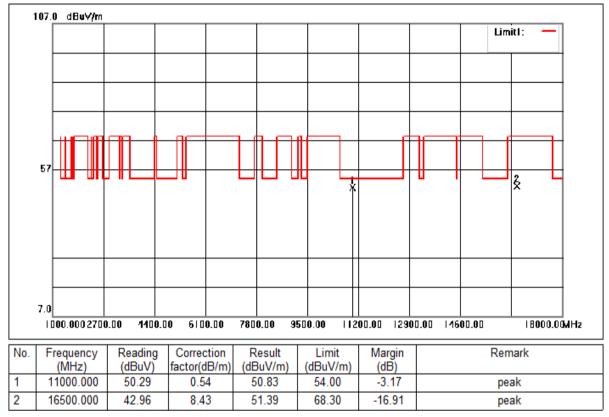


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Mode:d; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



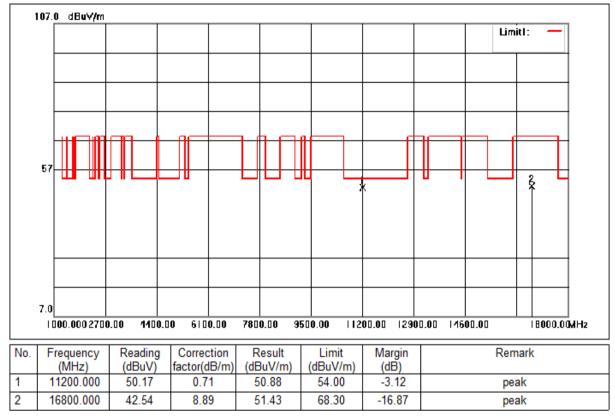
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Mode:d; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:middle

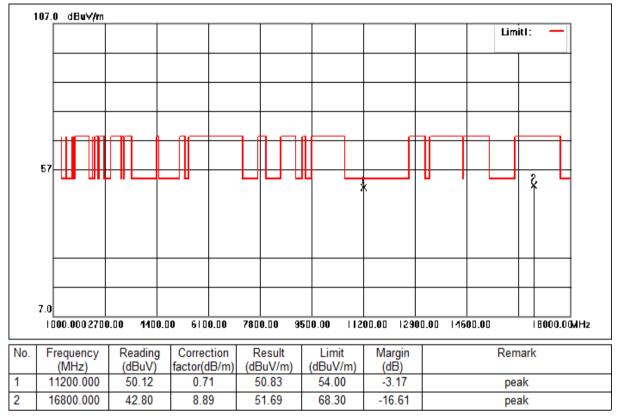


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Mode:d; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:middle

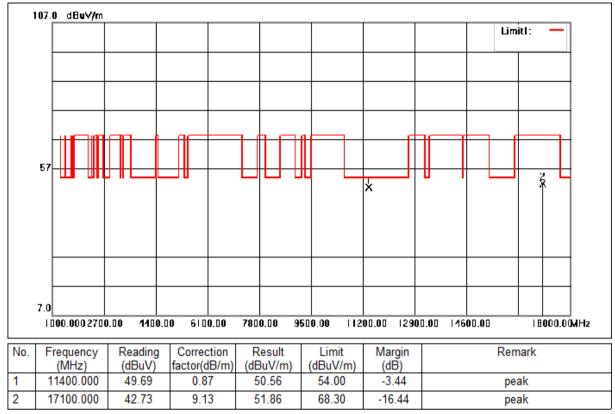


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Mode:d; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High

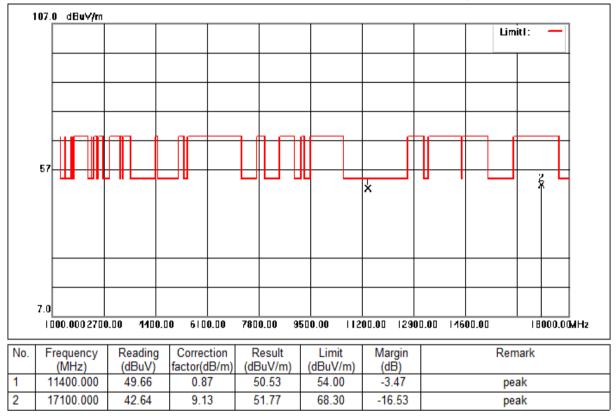


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Mode:d; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High

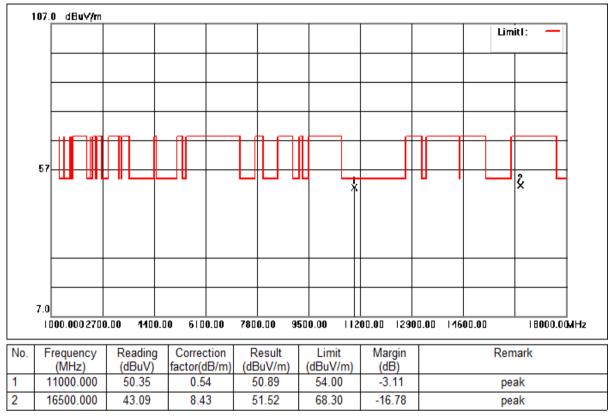


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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



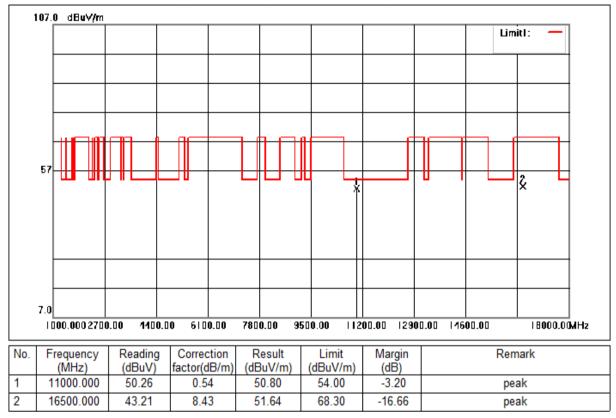
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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low

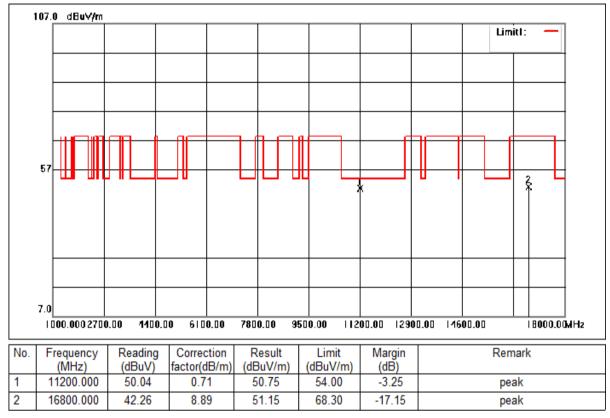


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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle



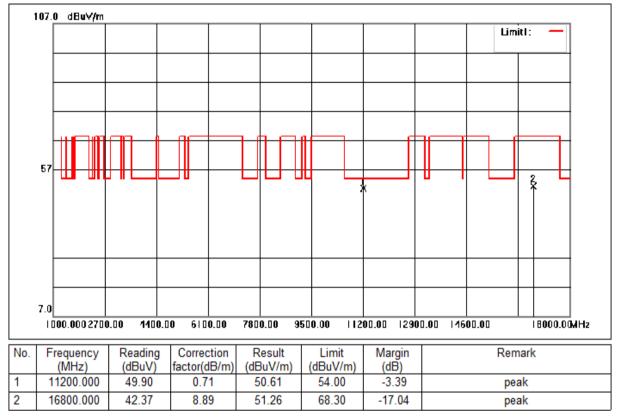
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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle

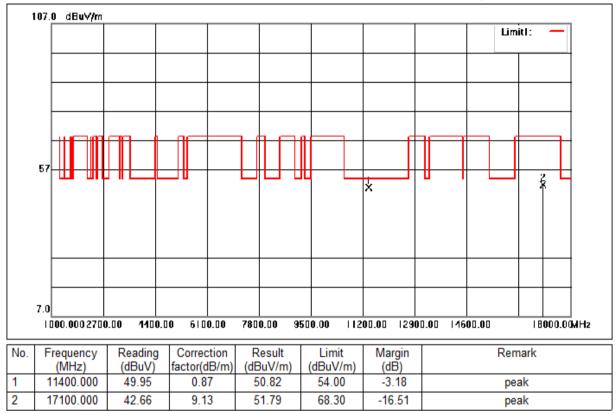


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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



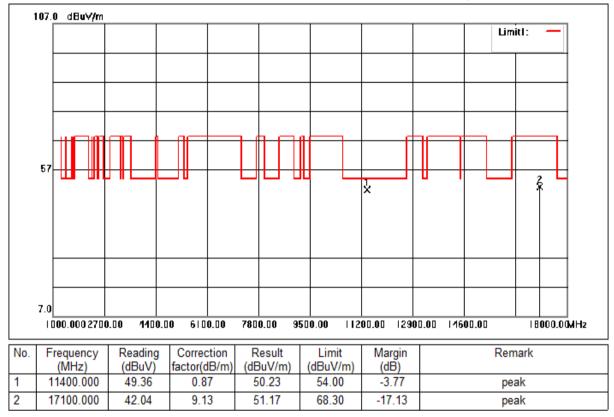
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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High

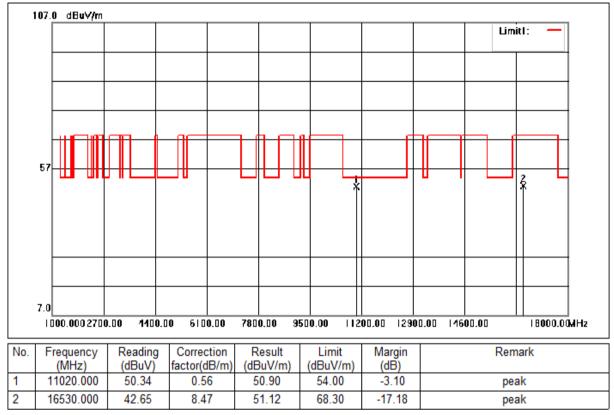


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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low

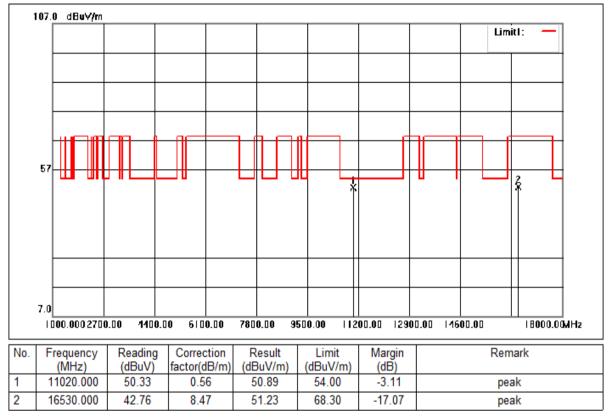


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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low

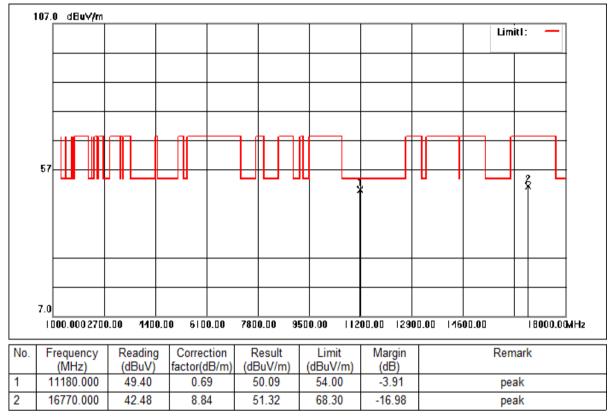


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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:middle



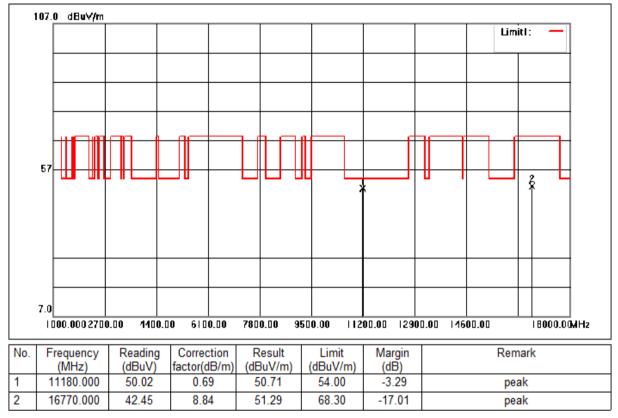
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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:middle

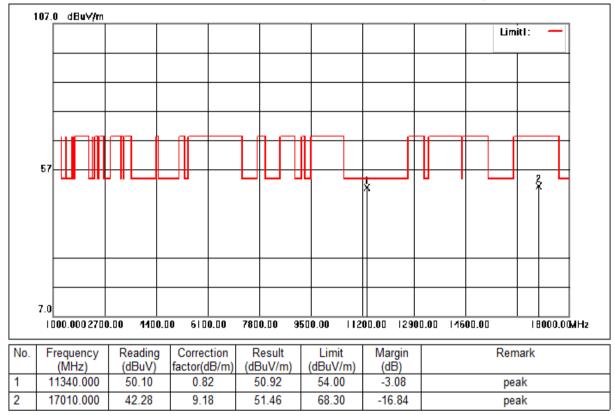


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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High

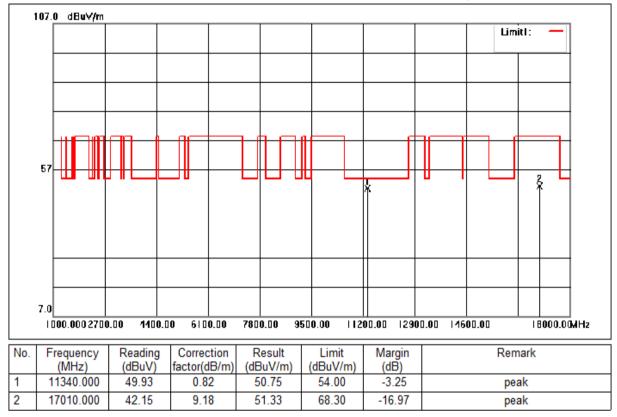


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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High

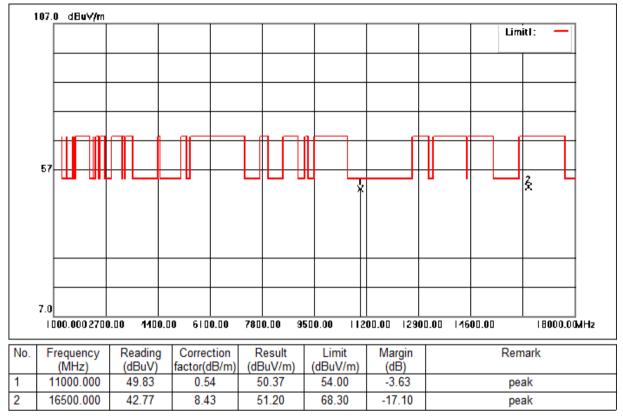


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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low

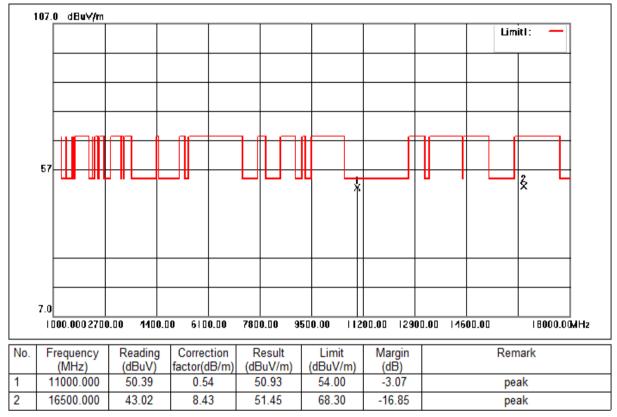


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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low



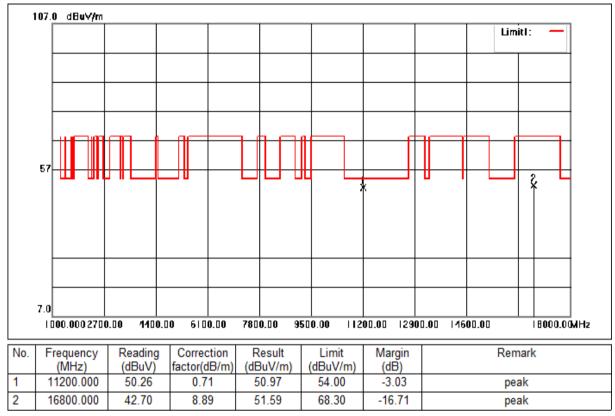
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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:middle

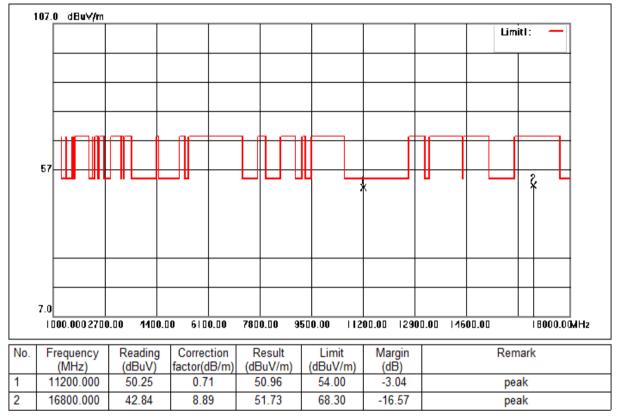


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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:middle

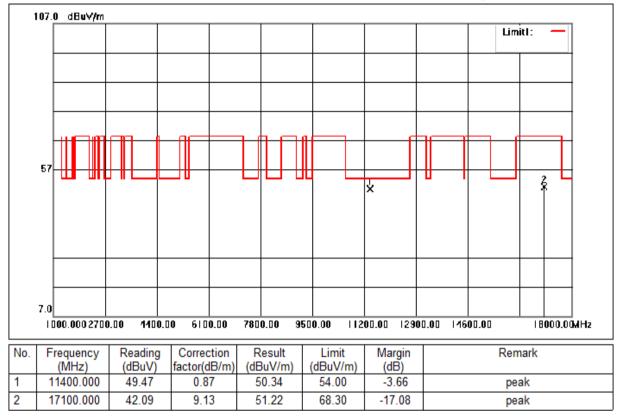


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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High

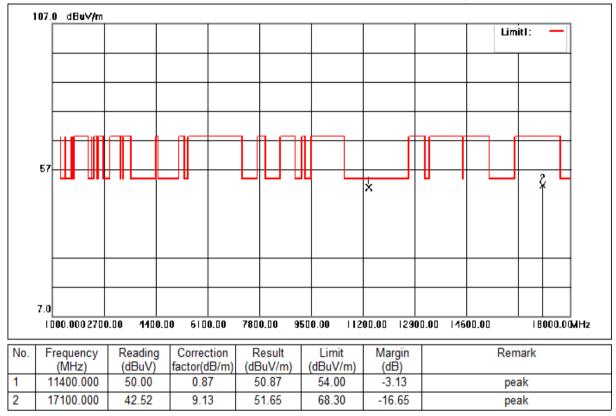


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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High

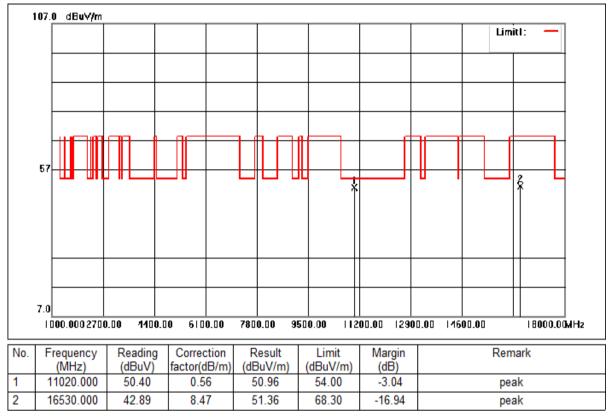


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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low

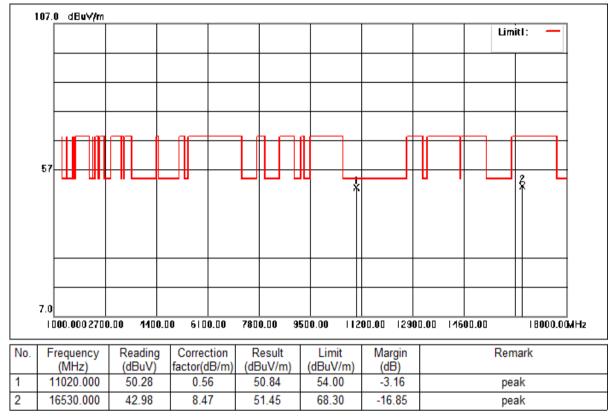


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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low

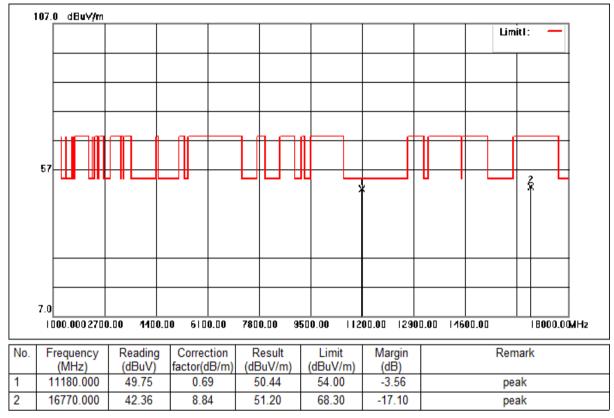


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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:middle



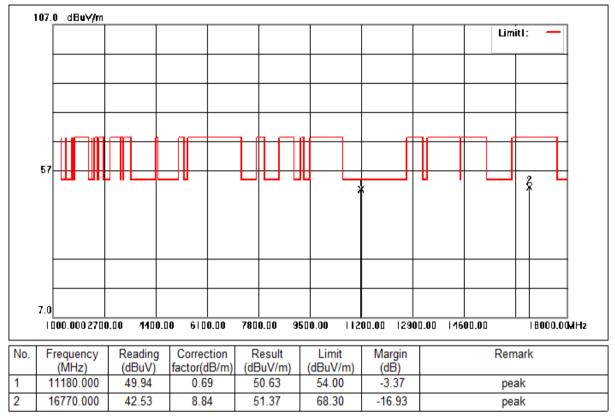
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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:middle

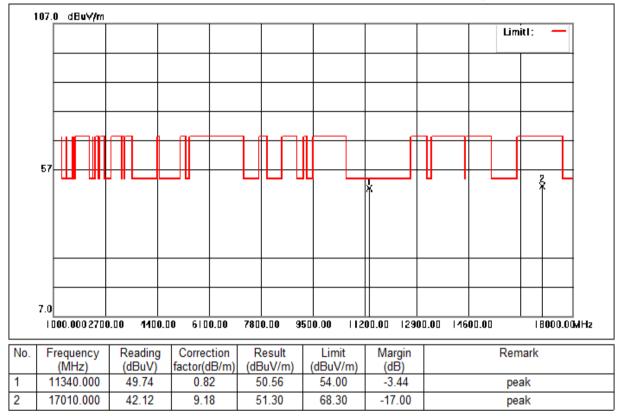


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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High

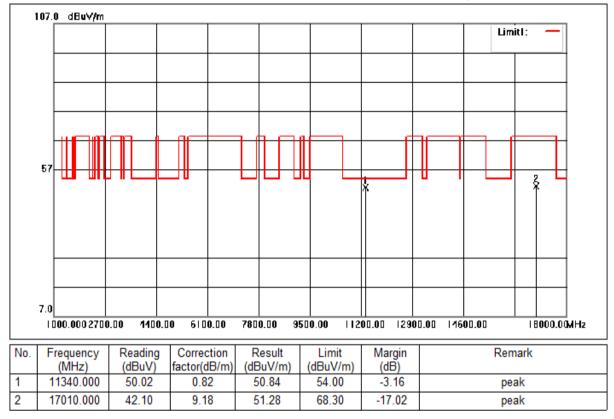


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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High



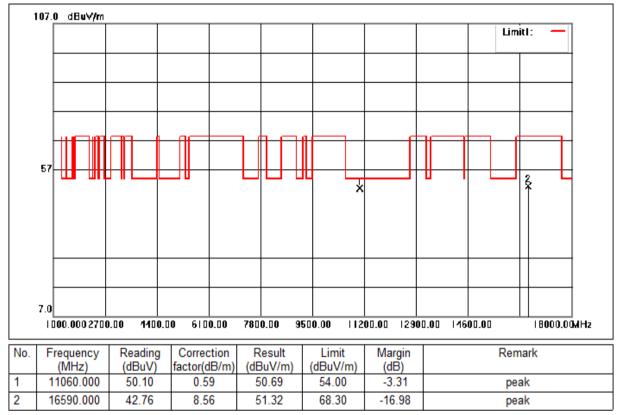
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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low

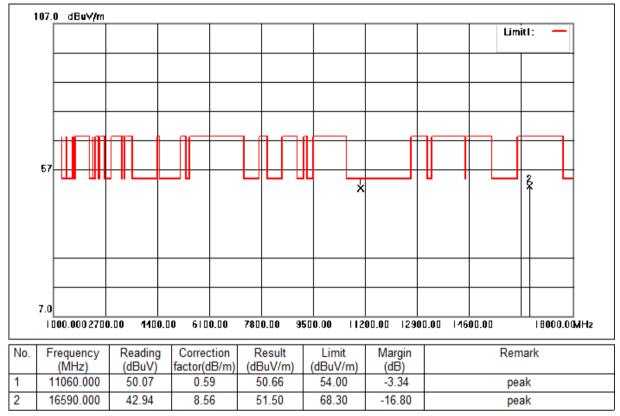


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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low



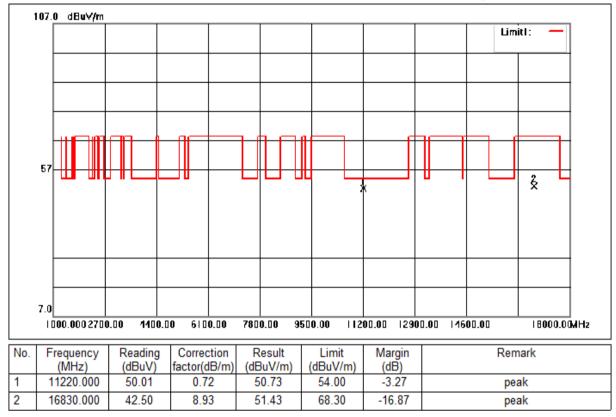
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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:High



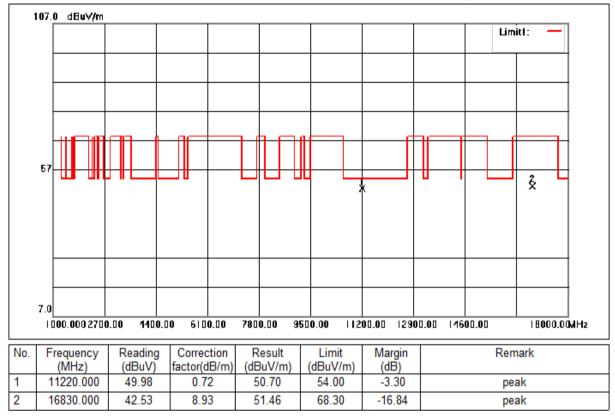
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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:High

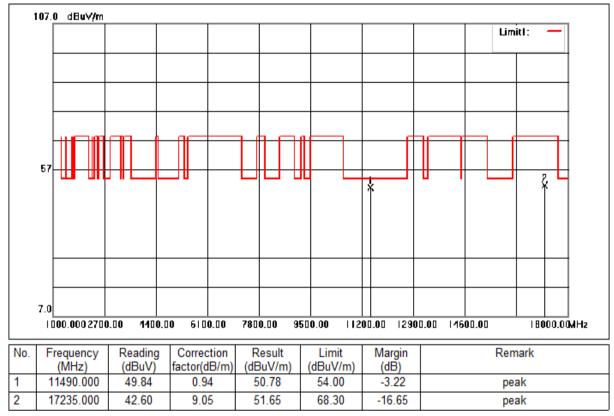


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Mode:e; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



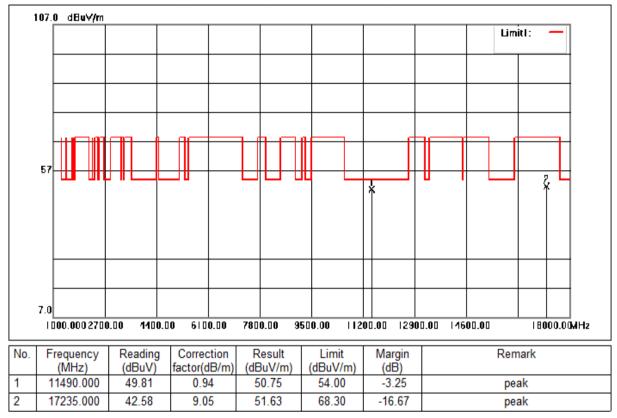
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Mode:e; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low

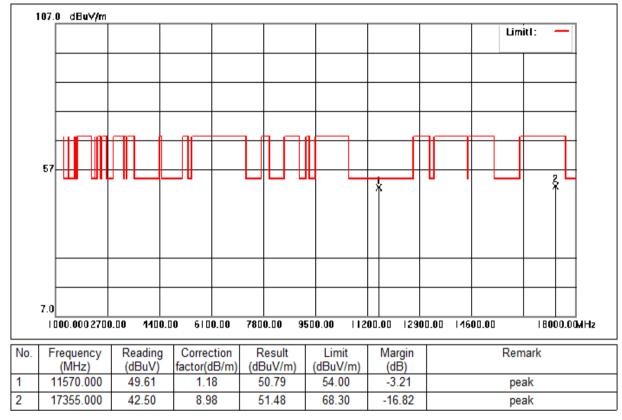


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Mode:e; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:middle



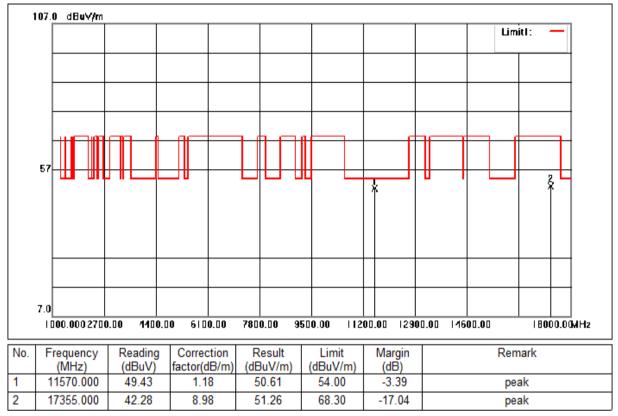
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Mode:e; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:middle

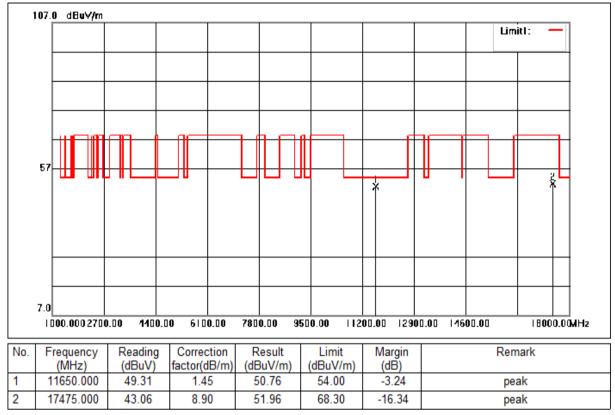


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Mode:e; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High



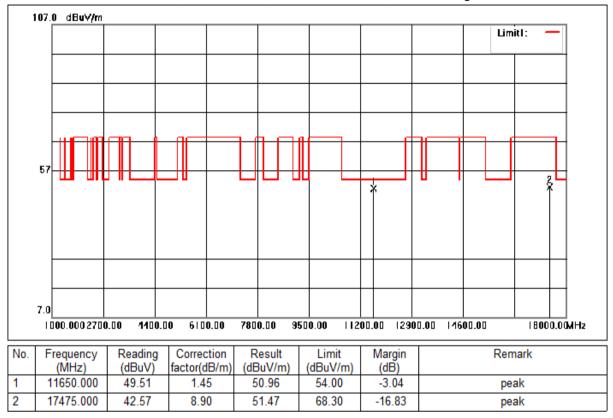
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Mode:e; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High

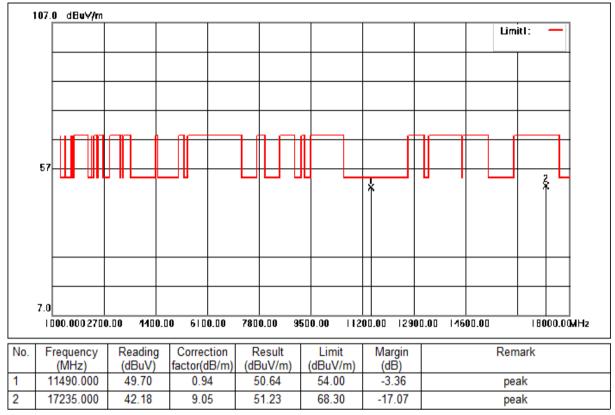


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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low

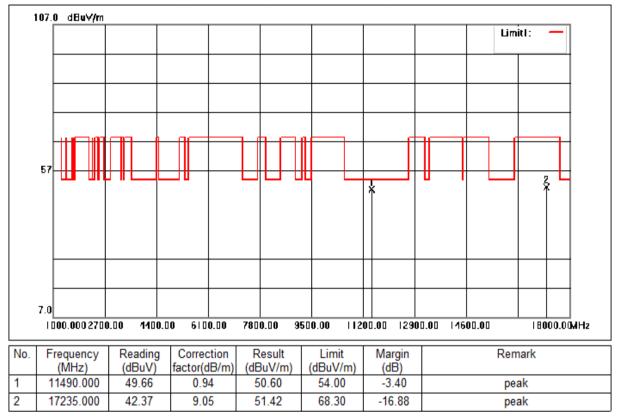


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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low

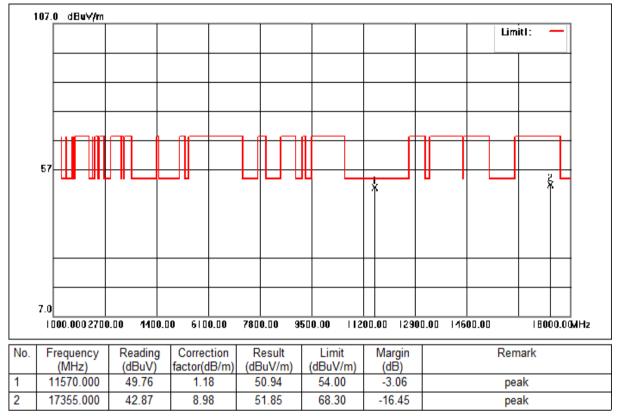


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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle



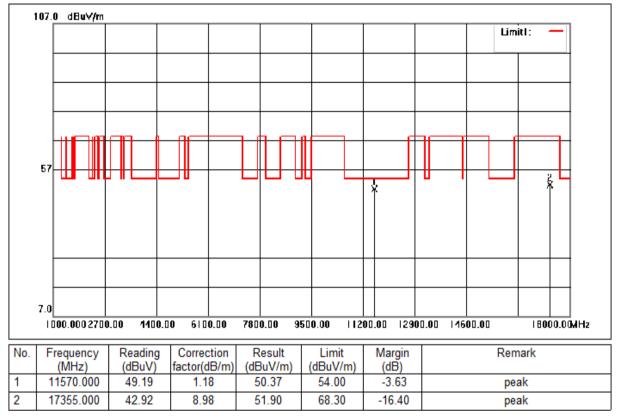
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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle



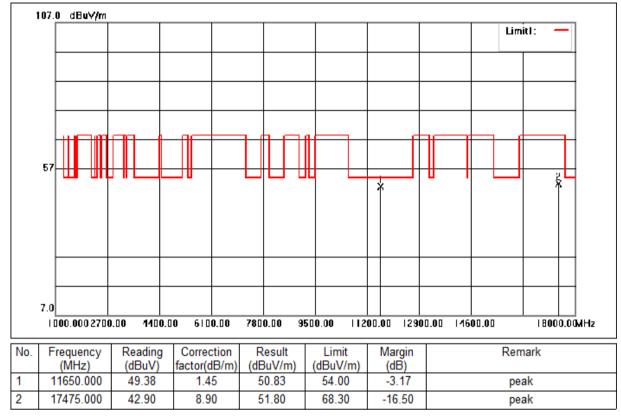
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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



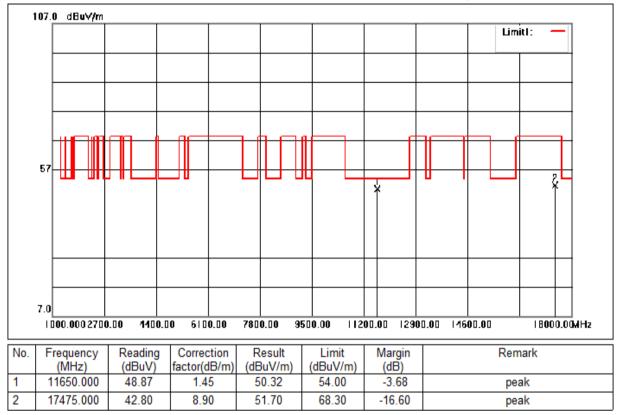
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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High

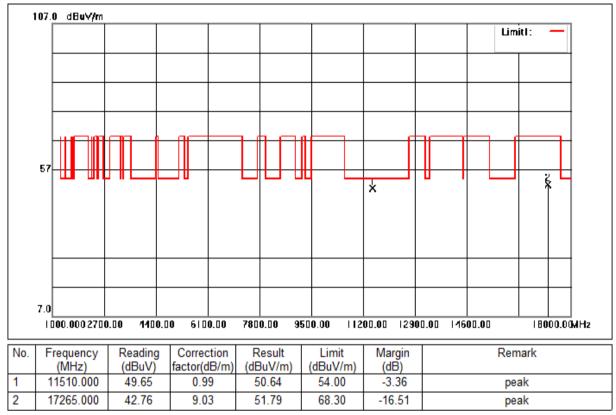


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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low

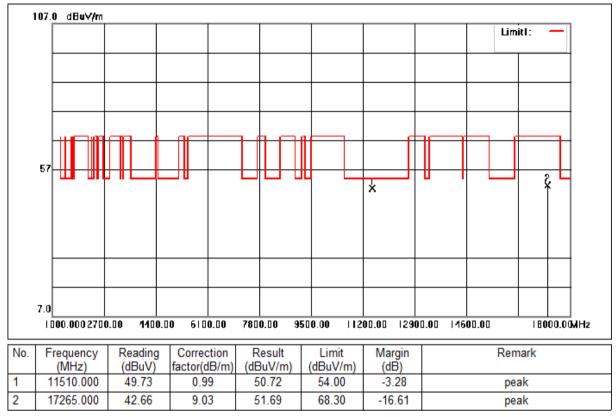


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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low

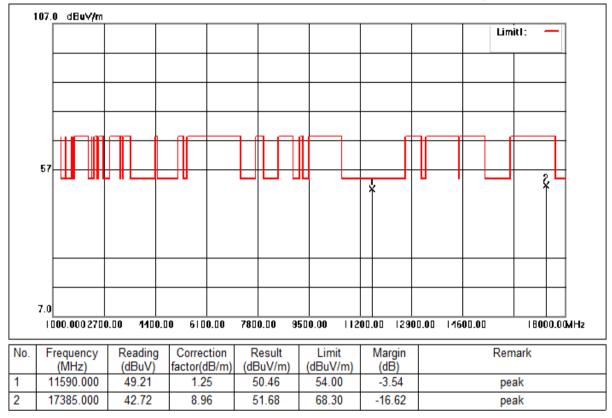


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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High

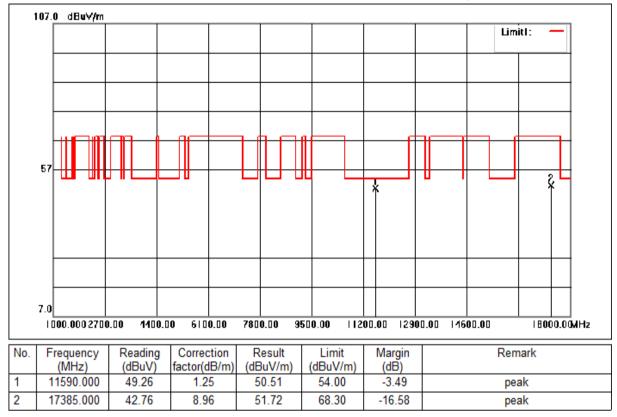


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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High

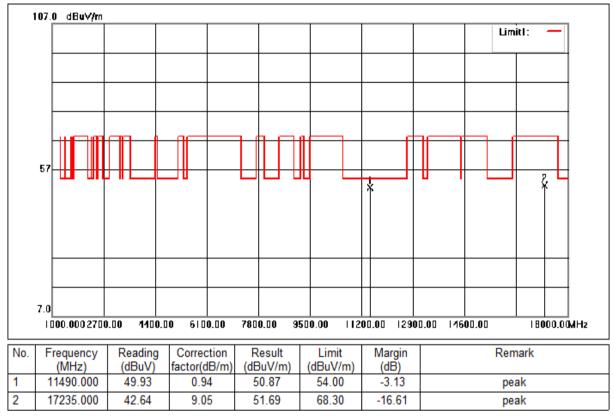


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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low

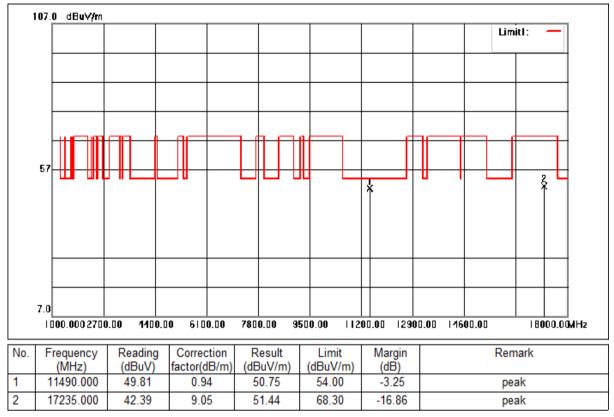


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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low

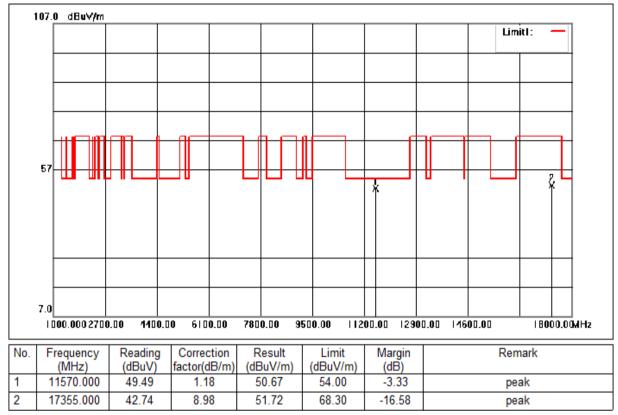


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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:middle

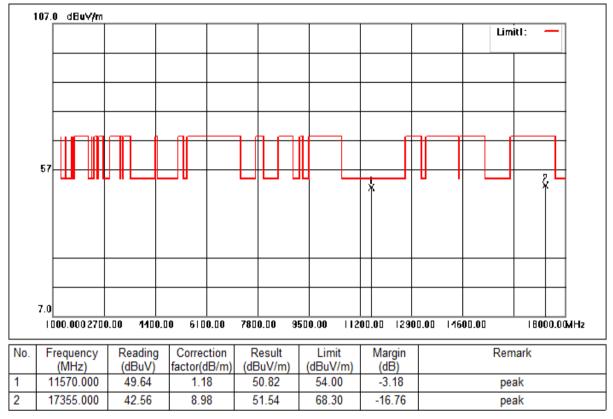


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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:middle

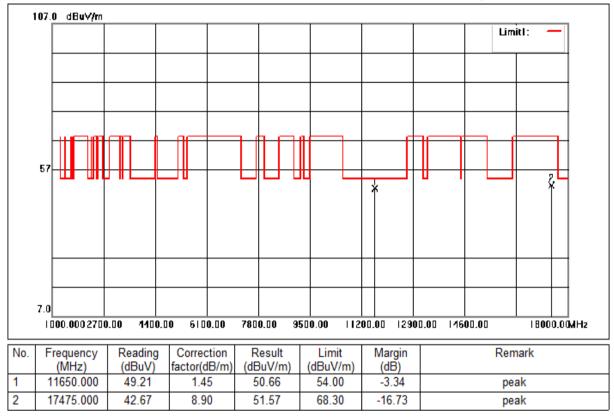


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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High



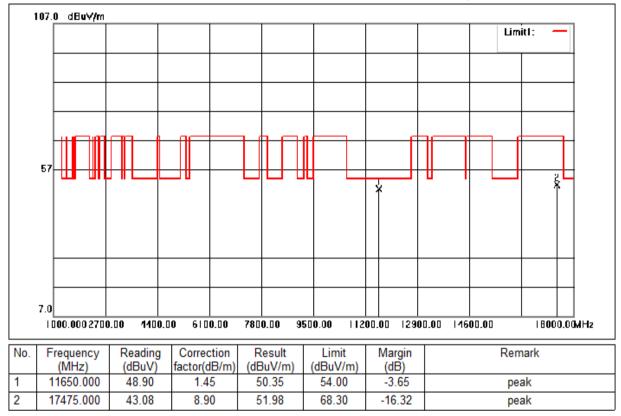
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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High

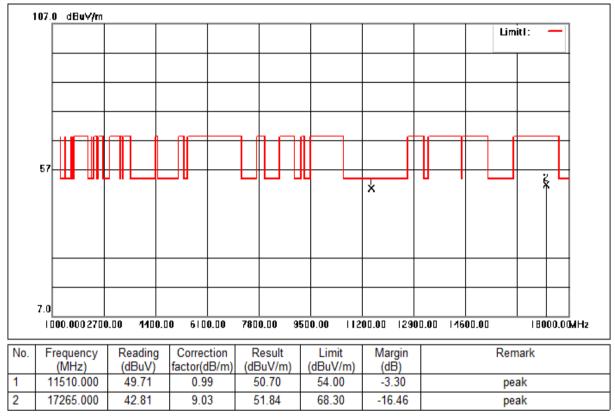


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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low

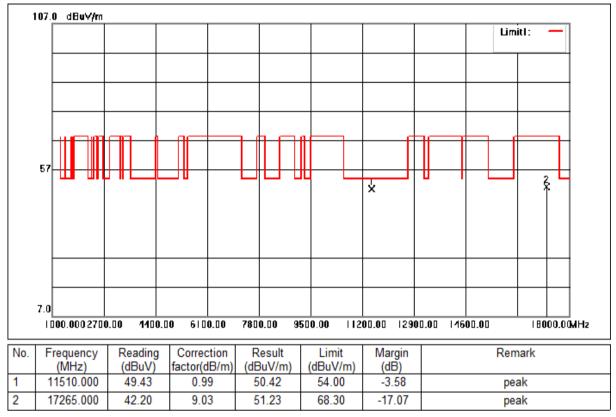


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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low

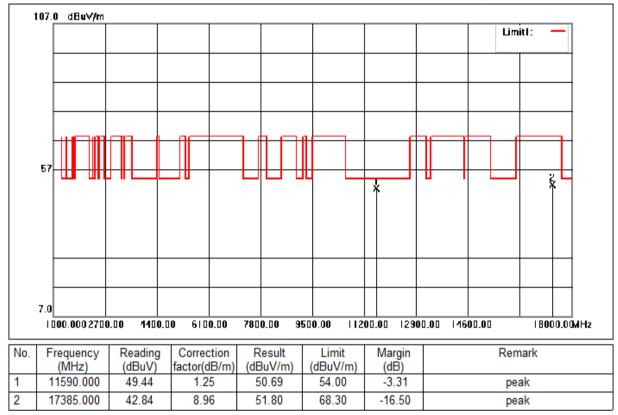


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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High



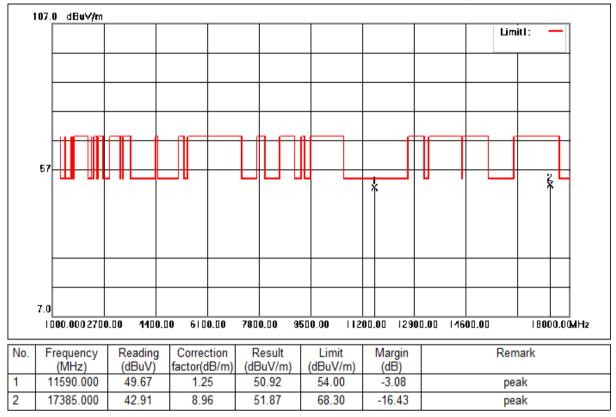
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### SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

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



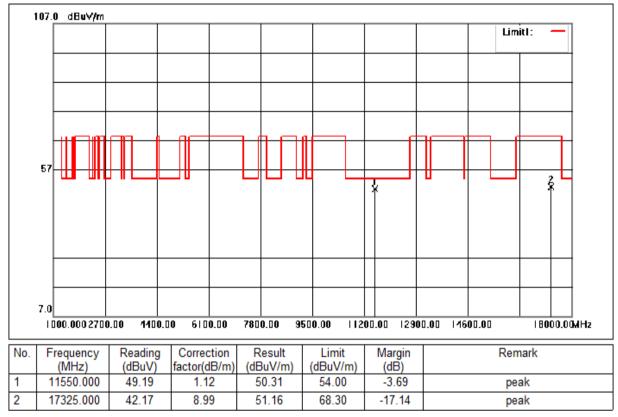
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 SHEM210700815402

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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:middle

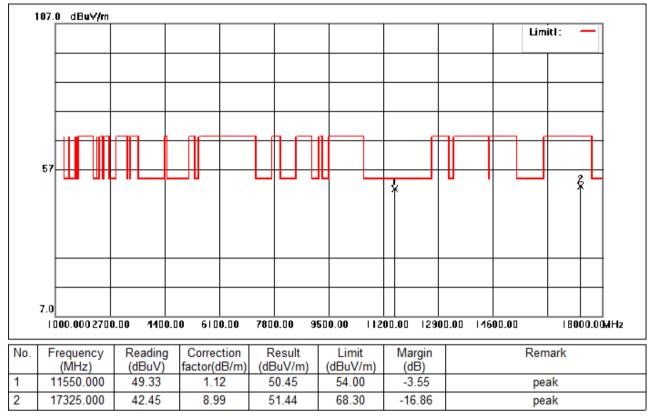


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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:middle



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# 7.9 Radiated Emissions which fall in the restricted bands

Test Requirement47 CFR Part 15, Subpart C 15.209 & 15.407(b)Test Method:KDB 789033 D02 II GLimit: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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#### 7.9.1 E.U.T. Operation

•	L.O.T. Operation								
	Operating Environ	ment	:						
	Temperature:	24	°C	Humidity:	50	% RH	Atmospheric Pressure:	1010	mbar
	Temperature: Test mode:	b:Cl tran type 802 @ M wors IEE 802 c:Cl tran type 802 d:Cl tran type 802 d:Cl tran type 802 d:Cl tran type 802 c:Cl tran type 802 d tran type 802 d:Cl tran type 802 d:Cl tran type 802 d:Cl tran type 802 d:Cl tran type 802 d: tran type 802 d: tran type 802 d: tran type 802 d tran type 802 d tran type 802 d tran type 802 d tran type 802 d tran type 802 d tran type 802 d tran type 802 d tran type 802 d tran type 802 d tran type 800 d tran type 800 d tran type 80 d tran type 80 d type 80 d tran type 80 d tran type 80 d tran tran type 80 d tran tran type 80 d tran tran type 80 d tran tran type 80 d tran tran type 80 tran tran type 80 d tran tran tran tran tran tran tran tran	harge + TX smitting mo have been .11a; data r ACS0 is the st case of IE 802.11ac (VHT8 harge + TX smitting mo have been .11a; data r ACS0 is the st case of IE 802.11ac (VHT8 harge + TX smitting mo have been .11a; data r ACS0 is the st case of IE 802.11ac (VHT8 harge + TX smitting mo have been .11a; data r ACS0 is the st case of IE 802.11ac (VHT8 harge + TX smitting mo have been .11a; data r ACS0 is the st case of IE	mode (Band de with all m tested and f ate @ MCS0 worst case of EE 802.11a (VHT40); da 30). Only the mode (Band de with all m tested and f ate @ MCS0 worst case of EE 802.11a (VHT40); da 30). Only the mode (Band de with all m tested and f ate @ MCS0 worst case of EE 802.11a (VHT40); da 30). Only the mode (Band de with all m tested and f ate @ MCS0 worst case of EE 802.11a (VHT40); da 30). Only the mode (Band de with all m tested and f ate @ MCS0 worst case of EE 802.11a	1)_h nodul found ) is the of IEB (VF ta rate data 2A)_ nodul found ) is the of IEB nodul found ) is the of IEB nodul found ) is the of IEB nodul found ) is the found ) is the found (VF ta rate data 3)_h	Keep the EU ation types. I the data rate worst case EE 802.11n( IT20); data r e @ MCS0 i of worst case Keep the EU ation types. I the data rate worst case E 802.11n( IT20); data r e @ MCS0 i of worst case E 802.11n( IT20); data r ation types. I the data rate worst case E 802.11n( IT20); data r	Atmospheric Pressure: T in charging and continu All data rates for each me te @ 6Mbps is the worst e of IEEE 802.11n(HT20 HT40); data rate @ MCS ate @ MCS0 is the worst is the worst case of IEEE se is recorded in the report UT in charging and contin All data rates for each me te @ 6Mbps is the worst e of IEEE 802.11n(HT20 HT40); data rate @ MCS ate @ MCS0 is the worst is the worst case of IEEE se is recorded in the report UT in charging and contin All data rates for each me te @ 6Mbps is the worst is the worst case of IEEE se is recorded in the report UT in charging and contin All data rates for each me te @ 6Mbps is the worst is the worst case of IEEE se is recorded in the report T in charging and continu All data rates for each me te @ 6Mbps is the worst is the worst case of IEEE se is recorded in the report of IEEE 802.11n(HT20 HT40); data rate @ MCS ate @ MCS0 is the worst e of IEEE 802.11n(HT20 HT40); data rate @ MCS ate @ MCS0 is the worst is the worst case of IEEE se is recorded in the report of IEEE 802.11n(HT20 HT40); data rate @ MCS ate @ MCS0 is the worst is the worst case of IEEE se is recorded in the report of IEEE 802.11n(HT20 HT40); data rate @ MCS ate @ MCS0 is the worst is the worst case of IEEE se is the worst case of IEEE se is the worst case of IEEE se is the worst case of IEEE	Jously odulatio case of ); data r 0 is the t case of ort. nuously odulatio case of 0 is the t case of ort. nuously odulatio case of ); data r 0 is the t case of ort. Jously odulatio case of ); data r 0 is the t case of ); data r 0 is the t case of of t.	on IEEE of IEEE of IEEE of IEEE of IEEE on IEEE ate
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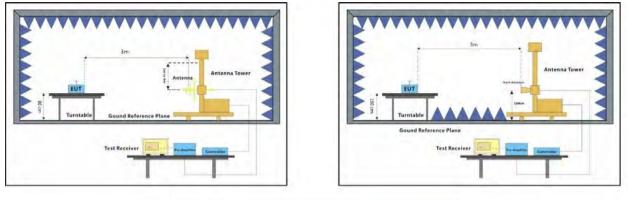
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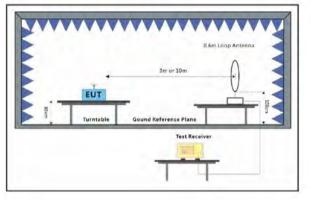


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#### 7.9.2 Test Setup Diagram







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## SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.



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#### 7.9.3 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: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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2	5150.	000	55.40		-7.84	L	4	7.56		74.0	0	-26	6.44	peak					
3	5185.	860	106.04		-7.77	'	9	8.27		74.0	0	24	.27	peak					

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



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2	1	5150.000	54.68	-7.	34	4	6.84	7	4.00	-2	7.16	peak						
3	1	5175.210	100.24	-7.1	78	9	2.46	7	4.00	18	8.46	peak						

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1	5146.81	0	67.51		-7.8			9.66		74.0		-14	4.34	peak						
2	5150.00		69.12		-7.8			1.28		74.0			2.72	peak						
3	5183.73	30	111.51		-7.7	6	1	03.75		74.0	)0	29	).75	peak						

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



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	1500.000 157	1.00 1612.0	10 1713.00	1784.00 1	855.00 492	6.00 4997.	00 5068.00	5210.00 MHz	
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark	
1	5145.390	50.70	-7.85	42.85	54.00	-11.15		AVG	
2	5150.000	53.87	-7.84	46.03	54.00	-7.97	AVG		
3	5186.570	101.64	-7.76	93.88	54.00	39.88		AVG	

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



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No.	F	requency (MHz)	Reading (dBuV)		Correct factor(d			lesult BuV/m	)	Lim (dBuV		Ma (d	argin IB)				Rem	nark			
1		5146.810	61.11		-7.8	15	5	3.26		74.0	0		0.74				pea	ak			
2		5150.000	63.53		-7.8			5.69		74.0		-18	8.31				pea	ak			
3		5182.310	104.82		-7.7	7	9	7.05		74.0	0	23	3.05				pea	ak			

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



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	1500.000 157	1.00 1612.0	10 1713.00	1784.00 1	855.00 492	6.00 4997.	00 5068.00	5210.00 MHz
lo.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	R	emark
	5145.390	46.29	-7.85	38.44	54.00	-15.56		AVG
	5150.000	49.09	-7.84	41.25	54.00	-12.75		AVG
	5176.630	95.65	-7.78	87.87	54.00	33.87		AVG

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



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	1	500.000 1573	.00 <b>16</b> 16.	00 171	9.00	479	2.00	186	5.00	493	8.00	5011	.00	508-	1.00		ļ	5230	.00	<b>i</b> Hz
No.	F	requency (MHz)	Reading (dBuV)	Correct factor(d			lesult BuV/m)	(	Lim dBuV			argin IB)				Ren	narl	(		
1		5144.590	76.36	-7.8			8.51		74.0			5.49				· ·	ak			
2		5150.000	75.84	-7.8			8.00		74.0			5.00				ре	ak			
3		5188.390	106.47	-7.7	6	9	8.71		74.0	0	24	4.71				ре	ak			

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



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	4500.000 4573	6.UU 1616.U	0 1719.00	4792.00 4	865.00 493	8.00 5011	.00 5081.00	5230.00 MHz
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	F	Remark
1	5146.780	56.83	-7.85	48.98	54.00	-5.02		AVG
2	5150.000	59.16	-7.84	51.32	54.00	-2.68		AVG
3	5192.770	96.01	-7.75	88.26	54.00	34.26		AVG

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



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	4	500.000 1573	1646 <b>16</b> 46	.00 171	9.00	479	2.00	485	5.00	493	8.00	5011	.00	5084	1.00		ļ	5230	.00 k	<b>i</b> Hz
0.	F	requency (MHz)	Reading (dBuV)	Correct factor(c			lesult BuV/m)	(	Limi dBuV			rgin IB)				Ren	narl	¢		
		5146.780	66.99	-7.8	35		9.14		74.0	0	-14	4.86				ре	ak			
		5150.000	67.66	-7.8	34	5	9.82		74.0	0	-14	4.18				ре	ak			
	1	5177.440	99.39	-7.1	78	9	1.61		74.0	0	17	7.61				ре	ak			

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



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	1500.000 1573	<b>3.00 1616.</b> 0	10 1719.00	4792.00 4	855.00 493	8.00 5011.	.00 5084.00	5230.00 MHz
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Re	emark
1	5144.590	50.82	-7.85	42.97	54.00	-11.03	A	VG
2	5150.000	53.92	-7.84	46.08	54.00	-7.92	A	VG
3	5176.710	90.20	-7.78	82.42	54.00	28.42	A	VG

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



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	1	500.000 157	.00 1613	2.0	0 171	3.00	178	4.00	185	5.00	492	6.00	4997	'. <b>00</b>	5068	8.00		57	210.	00 M	IHz
0.	F	requency (MHz)	Reading (dBuV)		Correct factor(c			lesult BuV/m)		Lim (dBuV		Ma (c	argin dB)				Rem	nark			
		5148.230	62.15		-7.8			4.31	1	74.0		<u> </u>	9.69				pe	ak			
		5150.000	63.53		-7.8	34	5	5.69		74.0	0	-1	8.31				pe	ak			
		5185.860	108.49		-7.7	7	1	00.72		74.0	0	20	6.72				pe	ak			

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



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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	I	Remark	
1	5145.390	46.00	-7.85	38.15	54.00	-15.85		AVG	
2	5150.000	48.47	-7.84	40.63	54.00	-13.37	AVG		
3	5185.150	99.24	-7.76	91.48	54.00	37.48		AVG	

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



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No.	F	requency (MHz)	Reading (dBuV)		Correct factor(d			esult BuV/m	)	Lim (dBuV			argin IB)			ŀ	Rem	ark		
1		5146.810	56.48		-7.8			8.63		74.0			5.37				pea			
2 3		5150.000 5175.920	58.22 103.39	+	-7.8 -7.7			0.38 5.61	+	74.0			3.62 1.61	peak peak						

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



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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark	
1	5145.390	44.02	-7.85	36.17	54.00	-17.83		AVG	
2	5150.000	45.74	-7.84	37.90	54.00	-16.10	AVG		
3	5176.630	93.64	-7.78	85.86	54.00	31.86		AVG	

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



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D.	۹! F	500.000 1573	8.00 1610	5.00 171	9.00 stion dB/m)	1792 R( (dB	2.00 1	865.00 4:	938.00 Mar	5011.00 gin 3) 77		.00 R	ema pea	ark k	0.00	MHz

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



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	0.0	3.00 <b>1616</b> .0	0 1719.00	1792.00 1	865.00 493	8.00 5011.	.00 5084.00	5230.00 MHz
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	R	lemark
1	5146.780	50.45	-7.85	42.60	54.00	-11.40		AVG
2	5150.000	52.44	-7.84	44.60	54.00	-9.40		AVG
3	5204.450	94.01	-7.71	86.30	54.00	32.30		AVG

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



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	19	500.000 1573	8.00 4646	5.00 471	9.00	4792.00	185	5.00	493	8.00	5011.00	0 50	84.00		5	230.00	MHz
0.	F	requency (MHz)	Reading (dBuV)	Corrector(corrector)		Resu (dBuV		Lim (dBuV		Mar (df				Rem	ark		
	1	5145.320	61.64	-7.8	35	53.7	9	74.0	0	-20	.21			pea	ak		
							_								-		
		5150.000	63.99	-7.8	34	56.1	5	74.0	0	-17	.85			pea	ak		

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



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### SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

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	1500.000 1573	3.00 1616.0	1719.00	4792.00 4	865.00 493	8.00 5011.	.00 5084.00	5230.00 MHz
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark
1	5146.050	46.38	-7.85	38.53	54.00	-15.47		AVG
2	5150.000	47.88	-7.84	40.04	54.00	-13.96		AVG
3	5175.980	88.26	-7.78	80.48	54.00	26.48		AVG

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



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	1	500.000 1577	'.00 <b>16</b> 54.	00 1731.00	1808.00	<b>1885.00 196</b>	50.39	.00 5116.0	00 5270.00 MHz
No.		requency (MHz)	Reading (dBuV)	Correction factor(dB/r	n) (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark
1		5146.800	75.39	-7.85	67.54	74.00	-6.46		peak
2		5150.000	71.76	-7.84	63.92	74.00	-10.08		peak
3		5202.240	104.20	-7.72	96.48	74.00	22.48		peak

Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low



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0.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark
	5146.030	58.46	-7.85	50.61	54.00	-3.39		AVG
	5150.000	59.04	-7.84	51.20	54.00	-2.80		AVG
	5201.470	93.74	-7.73	86.01	54.00	32.01		AVG

Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low



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No.	F	requency	Reading	Correc			esult	Τ	Limi		Mar				R	lem	ark		
4		(MHz)	(dBuV)	factor(d			BuV/m)	(	dBuV		(dE	_					-1.		
1 2		5143.720 5150.000	67.36 65.33	-7.8			9.50 7.49	+	74.0 74.0		-14 -16					pea pea			
2		5150.000	97.73	-7.7			9.98	+	74.0		-10					pea pea			
5		5151.400	51.15	-1.1	5	0	5.50		74.0	•	10.	50				hee	arx.		

Mode:b; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low



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0.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark
	5142.950	53.21	-7.86	45.35	54.00	-8.65		AVG
	5150.000	54.75	-7.84	46.91	54.00	-7.09		AVG
	5192.230	87.42	-7.75	79.67	54.00	25.67		AVG

Mode:b; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low



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1		313.970		04.03		.29		96.74		74.0		22.74				pea		
2		350.000		5.16		.15		48.01		74.0		-25.99				pea		
3	5	351.540	5	7.71	-7	.14	!	50.57		74.0	0	-23.43	3	peak				

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



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}	5	358.850		57.14		-7.1	1	5	0.03		74	.00	-2	3.97	peak						

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



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2		5350.000	64.28	-7.1			7.13	+	74.00		-16.87	_			pea		
3	1	5350.860	64.70	-7.1	14	5	57.56		74.00	)	-16.44				pea	к	

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



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2		5350.000		49.07	+	-7.1			41.92			.00		12.08	+				VG		
3		5351.540		48.01	+	-7.1			40.87			.00		13.13	+				VG		

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



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	0.0	7.00 5324.1	0 5311.00	5358.00 5.	375.00 539	2.00 5109	.00 5126.00	5160.00 MHz			
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Re	mark			
1	5325.020	101.56	-7.24	94.32	74.00	20.32	p	eak			
2	5350.000	56.48	-7.15	49.33	74.00	-24.67	p	peak			
3	5387.070	57.83	-7.00	50.83	74.00	-23.17	peak				

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



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2		5350.000		.76	-7.1			87.61		54.0			5.39				A۱			
3	!	5351.030	44	.51	-7.1	4	3	37.37		54.0	0	-16	5.63				A۱	/G		

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



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2	1	5350.000	72.70	-7.1	15	65	.55	74.0	00	-8.4	5		pe	ak	
3	!	5350.750	71.23	-7.1	4	64	.09	74.0	00	-9.9	)1		pe	ak	

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



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lo.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	F	Remark
	5307.430	95.22	-7.31	87.91	54.00	33.91		AVG
!	5350.000	56.13	-7.15	48.98	54.00	-5.02		AVG
3	5351.130	56.00	-7.14	48.86	54.00	-5.14		AVG

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



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1		5306.860	96.78		-7.3			9.4			74.			15.47				ре			
2		5350.000	62.34		-7.1			5.1				.00		18.81				ре			
3	1	5355.880	62.74		-7.1	2	5	5.6	52		74	.00	-	18.38				ре	ak		

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



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	5	5294.130		87.20		-7.3	6	7	9.8	34		54.00		25.84				A	VG		
	Į	5350.000		49.12		-7.1	5	4	1.9	97		54.00		-12.03	AVG						
	5	5351.890		48.95		-7.1	4	4	1.8	31		54.00		-12.19				A	VG		

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



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3	5353.0	70	62.64	-7.	14	5	5.50		74.0	0	-18.	50			pea	ak	

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		5350.000	47.05		.15		9.90	54.00		14.10		AVG		
T	5	351.540	46.19	-7	.14	3	9.05	54.00	-	14.95		A	VG	

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



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



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_		(MHz) 5314.820	(dBuV) 90.69	factor(d			BuV/m) 3.40	(dBuV/m) 54.00	(dB) 29.40		A۱	10	
-		5350.000	43.97	-7.1			6.82	54.00	-17.18			/G /G	
		5352.560	43.73	-7.1			6.59	54.00	-17.41		A\		

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



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	0.0 5270.000 528	9.00 5308.0	10 5327.00	5316.00 5	365.00 538	1.00 5103	.00 5422.00	5160.00 MHz
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Re	mark
1	5305.150	103.05	-7.32	95.73	74.00	21.73	pe	eak
2	5350.000	64.60	-7.15	57.45	74.00	-16.55	pe	eak
3	5352.840	67.02	-7.14	59.88	74.00	-14.12	pe	eak

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



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No.	Fre	equency	R	leading		Correc			esi			Lim		M	argin				Ren	nark		
1		(MHz) 296.600		dBuV) 92.69	1	actor(d -7.3			5.3	//m)	(	dBuV 54.0			dB) 1.33	+			A١			
2		350.000		50.49	+	-7.5			3.3		$\vdash$	54.0			10.66	+				/G		
2		352.270	<u> </u>		+	-7.1			2.6		$\vdash$				11.37	+				/G /G		
3	5.	352.270		49.77		-1.1	4	4	2.6	າວ		54.0	U	-	11.37				A	16		

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



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	0.0 5;	270.000 5289	9.00 5	308.0	10 532	7.00	534	6.00	) [	536	5.00	538	1.00	540	3.00	542	2.00		516	D.00 H	<b>i</b> Hz
No.	F	requency	Read		Correc			esu		T	Lim			argin				Rem	nark		
1		(MHz) 5301.730	(dBu 94.8		factor(d -7.3		<u>,</u>	7.4	/m) 8	+	dBuV 74.0			dB) 3.48	+			pe	ak		
2	:	5350.000	56.2	28	-7.1	5	4	9.1	3	$\uparrow$	74.0	)0	-2	4.87	1			pe			
3		5359.490	60.2	26	-7.1	0	5	3.1	6	$\top$	74.0	)0	-2	0.84	1			pe	ak		

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



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	5270.000 5289	).00 5308.0	10 5327.00	5316.00 5	365.00 538	4.00 5403.	00 5122.00	5160.00 MHz
No.	Frequency	Reading	Correction	Result	Limit	Margin		Remark
	(MHz)	(dBuV)	factor(dB/m)		(dBuV/m)	(dB)		
1	5313.320	84.92	-7.29	77.63	54.00	23.63		AVG
2	5350.000	45.17	-7.15	38.02	54.00	-15.98		AVG
3	5352.840	44.75	-7.14	37.61	54.00	-16.39		AVG

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

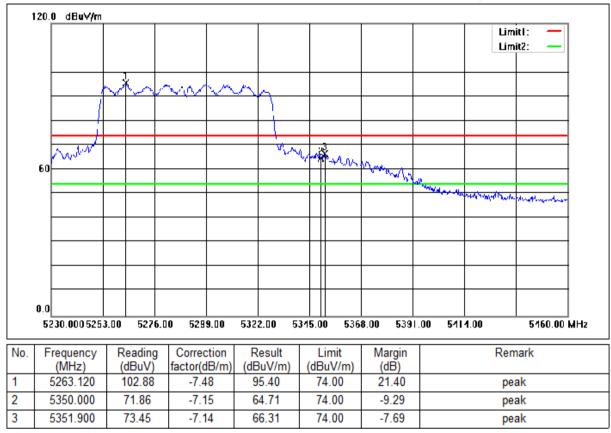


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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:High



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0.		requency	Reading				esult		Lim			argin				emark	
		(MHz) 5263.120	(dBuV) 92.34	factor(	lB/m)	(dB	uV/m) 4.86	(d		/m)	(0	dB) 0.86		AVG			
		5350.000	59.38	-7.1			2.23		54.0 54.0			1.77	AVG				
		5351.670	59.10	-7.1			1.96	-	54.0			2.04				AVG	

Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:High



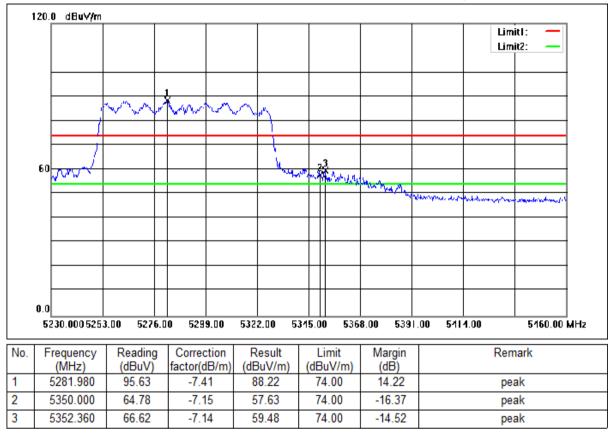
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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:High



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	52	230.000 5253	3.00 5276	.00 529	9.00	532	2.00	53	315.0	00	536	8.00	5391	.00	541	1.00		516	50.00 I	MHz
No.	F	requency	Reading				esul				nit	Ma	argin				Rem	nark		
1	4	(MHz) 5262.890	(dBuV) 85.47	factor(c			3uV/r 7.98	-			V/m) 00		dB) 3.98		AVG					
2		5350.000	51.91	-7.1			4.76				00		9.24	AVG						
3	!	5353.050	52.74	-7.1	4	4	5.60		Ę	54.	00	-{	8.40	AVG						

Mode:c; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:High



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No.	Fre (	quency MHz)	Reading (dBuV)		Corre factor				esult BuV/n			.imit luV/r			argin dB)				Ren	nark	
1		00.760	56.80			.95			9.85			4.00			4.15		peak				
2		60.000	54.58			.95			7.63			4.00			6.37	peak					
3	55	504.620	105.14		-6	.96		9	8.18		- 7	4.00		24	4.18	peak					

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



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	5350.000 5368	8.00 5386.0	0 5404.00	5422.00 54	110.00 515	8.00 5476	.00 5494.00	5530.00 MHz			
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark			
1	5392.660	56.85	-6.98	49.87	74.00	-24.13	peak				
2	5460.000	55.58	- <mark>6.9</mark> 5	48.63	74.00	-25.37	peak				
3	5505.160	98.12	- <mark>6.96</mark>	91.16	74.00	17.16	6 peak				

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



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	0100.000.000	0.00 0000.0	5101.00	5122.00 5	110.00 010	0.00 0110		5150.00 mm	
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark	
1	5455.300	61.40	-6.96	54.44	74.00	-19.56	peak		
2	5460.000	61.86	- <mark>6.9</mark> 5	54.91	74.00	-19.09	peak		
3	5506.240	110.87	- <mark>6.96</mark>	103.91	74.00	29.91		peak	

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



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		350.000 5368	B.00 5386.0	10 5101.00	5422.00 5	110.00 515	8.00 5176	.00 549	1.00	5530.00 MHz
No.	F	requency	Reading	Correction	Result	Limit	Margin		Ren	nark
1		(MHz) (dBuV) 5457.460 44.11		factor(dB/m) -6.96	(dBuV/m) 37.15	(dBuV/m) 54.00	(dB) -16.85		AV	/G
2		5460.000	44.57	-6.95	37.62	54.00	-16.38			
3		5493.820	101.06	-6.96	94.10	54.00	40.10	AVG		

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



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	53	150.000 5368	8.00 538	6.0	0 540	1.00	542	2.00	544	10.00	545	8.00 54	176.0	00 549	4.00	-	5530.00	MHz
No.	F	requency	Readin		Correc			esult		Lim		Margi	n		F	Rem	nark	
1	1	(MHz) (dBuV) factor(dB 5449.360 57.11 -6.96			) (dBuV/m) 50.15		)	dBuV) 74.0		(dB) -23.8	5		peak					
2		5460.000	55.28		-6.9			8.33	+	74.0		-25.6			peak			
3		5507.140	104.62	!	-6.9			7.66		74.0		23.66		peak				

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



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	5350.000 5368	.00 5386.0	0 5101.00	5422.00 5	110.00 515	8.00 5176	.00 5191.0	00 5530.00	MHz
No.	Frequency Reading (MHz) (dBuV)		Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark	
1	5385.640	43.72	-7.00	36.72	54.00	-17.28		AVG	
2	5460.000	43.12	- <mark>6.9</mark> 5	36.17	54.00	-17.83		AVG	
3	5505.520	94.96	-6.96	88.00	54.00	34.00	AVG		

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



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	53	350.000 5370	).00 539	0.0	0 541	0.00	543	0.00	545	0.00	547	0.00 54	90.00	<b>5</b> 5 I	0.00	5550.00	MHz
No.	F	requency (MHz)	Reading (dBuV)	)	Correct factor(d			esult 3uV/m)		Lin (dBu\		Margin (dB)	1	F		nark	
1		5458.600	63.15		-6.9			6.19		74.00		-17.81			pe	ak	
2		5460.000	64.27		-6.9	5	5	7.32		74.	00	-16.68	}	peak			
3		5494.800	103.77		-6.9	6	9	6.81		74.	00	22.81	peak				

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



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	5350.000 5370	0.00 5390.0	0 5110.00	5430.00 5	150.00 517	0.00 5190	.00 5510.00	5550.00 MHz
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark
1	5458.400	46.24	-6.96	39.28	54.00	-14.72		AVG
2	5460.000	47.76	-6.95	40.81	54.00	-13.19		AVG
3	5494.800	94.28	-6.96	87.32	54.00	33.32		AVG

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



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		390.000 3371	5.00 555	0.0	0 911	0.00	949	0.00	010	0.00	91	ru.u	0 313	0.00	991	0.00		5350.001	MTIZ
No.	F	requency (MHz)	Reading (dBuV)		Correct factor(d			lesult BuV/m	)	Lir (dBu	nit V/m)		Margin (dB)		Remark		nark		
1	!	5458.400			-6.9			4.14		74.		_	-19.86		peak				
2	!	5460.000	63.23		-6.9	5	5	6.28	$\top$	74.	00		-17.72	2 peak		ak			
3	!	5506.600	100.58		-6.9	6	9	3.62		74.	00		19.62	peak		ak			

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



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	0.0 5350.0005370	).00 5390.0	10 5410.00	5430.00 5 <sup>.</sup>	 150.00 517	0.00 5490	.00 5510.0	0 5550.00 MHz
lo.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark
	5457.800	47.25	-6.96	40.29	54.00	-13.71		AVG
	5460.000	48.42	-6.95	41.47	54.00	-12.53		AVG
	5508.600	90.59	-6.96	83.63	54.00	29.63		AVG

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



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No.	Freque (MH	z)	Readin (dBuV	) fa	Corrector(d			esult BuV/m	)	Lim (dBu\			argin IB)				Rem	nark		
1	5417.		58.22		-6.9			1.26		74.0			2.74				pea			
2	5460.		55.77		-6.9			8.82		74.0			5.18				pea	ak		
3	5505.	160	109.75	5	-6.9	6	1	02.79		74.0	)0	28	8.79				pea	ak		

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



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	5350.0005368	8.00 5386.0	0 5404.00	5422.00 5	110.00 515	8.00 5476	.00 5494.00	5530.00 MHz
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark
1	5396.620	44.37	-6.97	37.40	54.00	-16.60		AVG
2	5460.000	44.02	-6.95	37.07	54.00	-16.93		AVG
3	5494.180	99.18	-6.96	92.22	54.00	38.22		AVG

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



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	53	150.000 5368	.00 5386	.00 540	4.00	542	2.00 5	5440	.00 9	545	8.00 547	<b>6.00</b>	549	1.00	5530.00	MHz
No.	F	requency (MHz)	Reading (dBuV)	Correct factor(c			esult BuV/m)	(d	Limit IBuV/n	n)	Margin (dB)			Rer	mark	
1	{	5397.340	56.98	-6.9			0.02		74.00		-23.98			pe	eak	
2	1	5460.000	55.00	-6.9	95	4	8.05		74.00		-25.95			pe	eak	
3	{	5493.820	102.80	-6.9	)6	9	5.84		74.00		21.84			pe	eak	

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



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	5350.000 536	8.00 5386.0	10 5101.00	5422.00 5	110.00 515	8.00 5476	.00 5191.00	5530.00 MHz
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark
1	5386.900	43.66	-7.00	36.66	54.00	-17.34		AVG
2	5460.000	42.58	- <b>6</b> .95	35.63	54.00	-18.37		AVG
3	5493.820	91.85	-6.96	84.89	54.00	30.89		AVG

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



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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark	
1	5384.000	57.44	-7.02	50.42	74.00	-23.58		peak	
2	5460.000	56.23	-6.95	49.28	74.00	-24.72		peak	
3	5507.600	101.63	-6.96	94.67	74.00	20.67		peak	

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



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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark
1	5400.000	44.04	-6.95	37.09	54.00	-16.91		AVG
2	5460.000	44.24	-6.95	37.29	54.00	-16.71		AVG
3	5494.000	91.27	-6.96	84.31	54.00	30.31		AVG

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



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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark						
1	5393.800	56.98	-6.97	50.01	74.00	-23.99		peak						
2	5460.000	55.18	- <mark>6.9</mark> 5	48.23	74.00	-25.77		peak						
3	5508.200	94.47	- <mark>6.96</mark>	87.51	74.00	13.51		peak						

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



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1	5386.400	43.53	-7.00	36.53	54.00	-17.47		AVG	
2	5460.000	42.64	- <mark>6.9</mark> 5	35.69	54.00	-18.31		AVG	
3	5508.400	84.63	- <mark>6.9</mark> 6	77.67	54.00	23.67		AVG	

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



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1		5444.080	72.62	-6.9			5.66		74.0		-8.				pea		
2		5460.000	71.56	-6.9			4.61		74.0		-9.				pea		
3	!	5548.240	103.51	-6.9	)6	9	6.55		74.0	0	22.	55			pea	ak	

Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low



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D.	Frequency (MHz)	/ Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark	(
	5458.000		-6.96	50.92	54.00	-3.08		AVG	
	5460.000		-6.95	51.52	54.00	-2.48		AVG	
	5539.840	92.80	-6.97	85.83	54.00	31.83		AVG	

Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low



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1	!	5448.640	64.81		-6.9			7.85	.,	74.(			6.15		pe	ak	
2		5460.000	64.45		-6.9	5	5	7.50		74.(	00	-1(	6.50		pe	ak	
3		5503.120	96.23		-6.9	6	8	9.27		74.(	00	15	5.27		pe	ak	

Mode:d; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low



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1	5457.040	51.82	-6.96	44.86	54.00	-9.14		AVG	
2	5460.000	51.14	-6.95	44.19	54.00	-9.81		AVG	
3	5548.480	86.11	-6.96	79.15	54.00	25.15		AVG	

Mode:d; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low



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No.	Frequency	Reading	Correction	Result	Limit	Margin		Remark
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1	5628.800	56.04	-6.90	49.14	68.20	-19.06		peak
2	5637.200	55.75	-6.87	48.88	68.20	-19.32		peak
3	5749.200	105.20	-6.59	98.61	135.00	-36.39		peak

Mode:e; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



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No.	Frequency	Reading	Correction	Result	Limit	Margin		Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		
1	5629.200	55.39	- <mark>6</mark> .90	48.49	68.20	-19.71		peak
2	5637.200	55.17	-6.87	48.30	68.20	-19.90		peak
3	5739.200	98.31	-6.61	91.70	135.00	-43.30		peak

Mode:e; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



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No.	Frequency	Reading	Correction	Result	Limit	Margin		Rema	ark	
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)				
1	5820.400	103.42	-6.35	97.07	135.00	-37.93		peal	k	
2	5940.400	56.05	-5.69	50.36	68.20	-17.84		pea	k	
3	5974.400	55.03	- <mark>5.5</mark> 0	49.53	68.20	-18.67		peal	k	

Mode:e; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High



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No.	Frequency	Reading	Correction	Result	Limit	Margin		Remark
	(MHz)	(dBuV)	factor(dB/m)		(dBuV/m)	(dB)		
1	5830.800	98.62	-6.29	92.33	135.00	-42.67		peak
2	5937.600	55.59	-5.70	49.89	68.20	-18.31		peak
3	5966.000	55.28	-5.55	49.73	68.20	-18.47		peak

Mode:e; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High



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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark
1	5614.400	55.49	-6.93	48.56	68.20	-19.64		peak
2	5646.400	55.77	-6.85	48.92	68.20	-19.28		peak
3	5748.400	111.49	-6.59	104.90	135.00	-30.10		peak

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



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No.	Frequency	y	Reading	Correc	tion	R	esult	Т	Lim	it	Ma	argin				Rem	nark		
	(MHz)		(dBuV)	factor(d			BuV/m)	(	(dBuV		(0	dB)							
1	5625.600		55.67	-6.9			8.77		68.2			9.43				pea	ak		
2	5633.600	0	55.78	-6.8	8	4	8.90		68.2	0	-1	9.30	peak						
3	5739.200	)	104.55	-6.6	61	9	7.94		135.	00	-3	7.06				pea	ak		

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



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



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_	Frequency	Reading	Correction	Result	Limit	Margin		Remark
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).	5831.600							
D.	5831.600 5932.800	55.52	-5.73	49.79	68.20	-18.41		peak

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



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lo.	Frequency	Reading (dBuV)	Correction	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	'	Remark
	(MHz) 5615.600	(dBuV) 56.00	factor(dB/m) -6.93	(dBuV/m) 49.07	68.20	-19.13		peak
-	5629.200	55.33	-6.90	48.43	68.20	-19.77		peak
_	5740.800	105.67	-6.61	99.06	135.00	-35.94		peak

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



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	(MHz)	(dBuV)	factor(dB/m)		(dBuV/m)	(dB)			
1	5608.400	55.31	-6.95	48.36	68.20	-19.84		peak	
2	5640.800	55.41	-6.87	48.54	68.20	-19.66	peak		
3	5740.000	98.68	-6.61	92.07	135.00	-42.93		peak	

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



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4	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)			-
1	5792.800	105.14	-6.48	98.66	135.00	-36.34		peal	
2	5945.200	55.38	-5.66	49.72	68.20	-18.48		peal	
3	5979.200	55.03	-5.47	49.56	68.20	-18.64		peal	к

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



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lo.	Frequency	Reading	Correction	Result	Limit	Margin		Remark	
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)			
_	5809.600	99.12	-6.41	92.71	135.00	-42.29		peak	
	5939.600	55.36	-5.69	49.67	68.20	-18.53		peak	
	5974.800	55.07	-5.50	49.57	68.20	-18.63		peak	

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



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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark
1	5608.800	55.50	-6.95	48.55	68.20	-19.65		peak
2	5640.400	56.02	-6.87	49.15	68.20	-19.05		peak
3	5751.600	109.28	-6.58	102.70	135.00	-32.30		peak

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



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No.	Frequency	Reading	Correction	Result	Limit	Margin		Remark
	(MHz)	(dBuV)	factor(dB/m)		(dBuV/m)	(dB)		
1	5614.400	55.30	-6.93	48.37	68.20	-19.83		peak
2	5635.600	55.17	- <mark>6.88</mark>	48.29	68.20	-19.91		peak
3	5750.000	102.26	- <mark>6.</mark> 59	95.67	135.00	-39.33		peak

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



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-	(MHz)	(dBuV)	factor(dB/m)		(dBuV/m)	(dB)			-1-	
1	5831.200	107.59	-6.29	101.30	135.00	-33.70		pea		
2	5952.400	55.22	-5.62	49.60	68.20	-18.60		pea		
3	5988.000	54.80	-5.43	49.37	68.20	-18.83		pea	ak	

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



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lo.	Frequency	Reading	Correction	Result	Limit	Margin		Ren	nark	
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)			-1-	
	5823.200	102.40	-6.33	96.07	135.00	-38.93		pe		
	5944.000	55.34	-5.67	49.67	68.20	-18.53		pe		
	5992.400	55.74	-5.41	50.33	68.20	-17.87		pe	ak	

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



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	(MHz)	(dBuV)	factor(dB/m)		(dBuV/m)	(dB)			
1	5622.400	55.87	-6.92	48.95	68.20	-19.25	peak		
2	5646.000	56.16	-6.85	49.31	68.20	-18.89	peak		
3	5752.800	103.58	-6.58	97.00	135.00	-38.00		peak	

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



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1	5615.200	55.46	-6.93	48.53	68.20	-19.67	peak		
2	5637.200	55.82	-6.87	48.95	68.20	-19.25	peak		
3	5753.200	96.29	-6.58	89.71	135.00	-45.29	peak		

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



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_	(MHz)	(dBuV)	factor(dB/m)		(dBuV/m)	(dB)			
	5780.000	105.34	-6.51	98.83	135.00	-36.17	peak		
	5942.800	54.87	-5.67	49.20	68.20	-19.00	peak		
	5971.600	54.86	-5.52	49.34	68.20	-18.86		peak	

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



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	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)			
1	5810.000	99.12	-6.41	92.71	135.00	-42.29	peak		
2	5946.000	55.49	-5.66	49.83	68.20	-18.37	peak		
3	5959.600	55.27	-5.59	49.68	68.20	-18.52		pea	ak

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



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0.	Frequency	Reading	Correction	Result	Limit	Margin		Remark	
_	(MHz) 5635.200	(dBuV) 58.42	factor(dB/m) -6.88	(dBuV/m) 51.54	(dBuV/m) 68.20	(dB) -16.66		peak	
	5644.400	59.61	-6.85	52.76	68.20	-15.44		peak	
	5748.400	103.60	-6.59	97.01	135.00	-37.99		peak	
	5938.000	55.79	-5.71	50.08	68.20	-18.12		peak	
	5971.600	55.25	-5.52	49.73	68.20	-18.47		peak	

Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low



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۱o.		quency	Reading	Correction	Result	Limit	Margin		Rema	ark	
		<u>/Hz)</u> 18.800	(dBuV) 55.47	factor(dB/m) -6.92	(dBuV/m) 48.55	(dBuV/m) 68.20	(dB) -19.65		pea	k	
2		44.800	55.52	-6.85	48.67	68.20	-19.53		peak		
		01.600	97.09	-6.45	90.64	135.00	-44.36	· · ·			
		27.600	55.49	-5.76	49.73	68.20	-18.47	peak			
;	598	81.600	55.70	-5.47	50.23	68.20	-17.97		pea		

Mode:e; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low



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85% to 115% of the rated supply voltage at a temperature of 20 degrees C.



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### 7.10 Frequency Stability

Test Requirement	47 CFR Part 15, Subpart C 15.407 (g)
Test Method:	ANSI C63.10 (2013) Section 6.8
Limit:	The frequency tolerance shall be maintained within the band of operation
	frequency over a temperature variation of 0 degrees to 35 degrees C at
	normal supply voltage, and for a variation in the primary supply voltage from

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### 7.10.1 E.U.T. Operation

Operating Enviro	onment:					
Temperature:	24 °C	Humidity: 5	50 % RH	Atmospheric Pressure:	1010	mbar
Test mode:	•					IEEE ate
	c:Charge + TX mode (Band 2A)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40). Only the data of worst case is recorded in the report.					n IEEE ate
	transmitting m type have bee 802.11a; data @ MCS0 is the worst case of IEEE 802.11a	ode with all mo n tested and fo rate @ MCS0 i e worst case of IEEE 802.11ac c(VHT40); data	dulation types und the data s the worst ca IEEE 802.11 (VHT20); data rate @ MCS	EUT in charging and conti s. All data rates for each m rate @ 6Mbps is the worst ase of IEEE 802.11n(HT20 n(HT40); data rate @ MCS a rate @ MCS0 is the worst 0 is the worst case of IEEE case is recorded in the repo	odulatio case of ); data r S0 is the st case o	n IEEE ate
	e:Charge + TX mode (Band 3)_Keep the EUT in charging and continue transmitting mode with all modulation types. All data rates for each mo- type have been tested and found the data rate @ 6Mbps is the worst of 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20) @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report				odulatio case of ); data r S0 is the st case o	IEEE ate

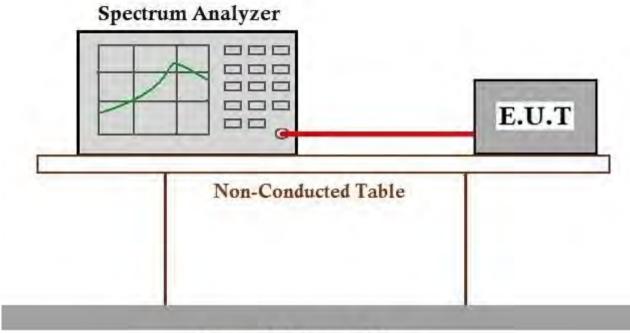


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### 7.10.2 Test Setup Diagram



## **Ground Reference Plane**

### 7.10.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM210700815402



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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 -



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