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TEST REPORT

Application No.:	SHCR2111000845AT
FCC ID:	UCZ-B451AJ-Z2
IC:	8575A-B451AJZ2
Applicant:	Lorex Technology Inc.
Address of Applicant:	250 Royal crest Court, Markham, L3R 3S1, Ontario, Canada.
Manufacturer:	Lorex Technology Inc.
Address of Manufacturer:	250 Royal crest Court, Markham, L3R 3S1, Ontario, Canada.
Equipment Under Test (EU	Т):
EUT Name:	1440p QHD Wi-Fi Smart Deterrence Video Doorbell
Model No.:	B451AJ-Z
HVIN:	B451AJ-Z2
Trade mark:	LOREX
Standard(s) :	47 CFR Part 15, Subpart E 15.407
	RSS-247 Issue 2, February 2017
	RSS-Gen Issue 5 Amendment 2 (February 2021)
Date of Receipt:	2021-11-24
Date of Test:	2021-12-01 to 2021-12-10
Date of Issue:	2021-12-10
Test Result:	

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

parlan 2han

Parlam Zhan Laboratory Manager



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Revision Record								
Version Description Date Remark								
00	Original	2021-12-10	/					

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



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2 Test Summary

Radio Spectrum Technical Requirement						
ltem	FCC Requirement	IC Requirement	Method	Result		
Antenna Requirement	47 CFR Part 15, Subpart C 15.203	RSS-Gen Clause 6.8	N/A	Pass		
Transmission in the Absence of Data	47 CFR Part 15, Subpart C 15.407 (c)	RSS-247 Section 6.4(a)	N/A	Pass		

N/A: Not applicable

Radio Spectrum Matter Part					
ltem	FCC Requirement	IC Requirement	Method	Result	
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.207 & 15.407 b(6)	RSS-Gen Section 8.8	ANSI C63.10 (2013) Section 6.2	Pass	
99% Bandwidth	N/A	RSS-Gen Section 6.7	KDB 789033 II D	Pass	
26dB Emission bandwidth	47 CFR Part 15, Subpart C 15.407 (a)	RSS-247 Section 6.2.1(1)	KDB 789033 D02 II C 1	Pass	
Minimum 6 dB bandwidth (5.725- 5.85 GHz band)	47 CFR Part 15, Subpart C 15.407 (e)	RSS-247 Section 6.2.4	KDB 789033 D02 II C 2	Pass	
Maximum Conducted output power	47 CFR Part 15, Subpart C 15.407 (a)	RSS-247 Section 6.2.1&6.2.2&6.2.3&6.2 .4	KDB 789033 D02 II E	Pass	
Peak Power spectrum density	47 CFR Part 15, Subpart C 15.407 (a)	RSS-247 Section 6.2.1&6.2.2&6.2.3& 6.2.4	KDB 789033 D02 II F	Pass	
Radiated Emissions	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	KDB 789033 D02 II G	Pass	
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	KDB 789033 D02 II G	Pass	
Frequency Stability	47 CFR Part 15, Subpart C 15.407 (g)	RSS-Gen Section 8.11	ANSI C63.10 (2013) Section 6.8& RSS-Gen Section 6.11	Pass	



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General Information 4

4.1 Details of E.U.T.

Power supply:	AC 16~24V,50/6	0Hz,0.7A						
Test voltage:	AC 120V/60Hz							
Serial Number:	2M0024EPAG03	3423						
Firmware Version:	V2.8	V2.8						
Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels				
	UNII Band I	802.11a/n(HT20)/ac(VHT20)	5180-5240	4				
		802.11n(HT40)/ac(VHT40)	5190-5230	2				
		802.11ac(VHT80)	5210	1				
	UNII Band II-A	802.11a/n(HT20)/ac(VHT20)	5260-5320	4				
		802.11n(HT40)/ac(VHT40)	5270-5310	2				
		802.11ac(VHT80)	5290	1				
	UNII Band II-C	802.11a/n(HT20)/ac(VHT20)	5500-5700	11				
		802.11n(HT40)/ac(VHT40)	5510-5670	5				
		802.11ac(VHT80)	5530~5610	2				
	UNII Band III	802.11a/n(HT20)/ac(VHT20)	5745-5825	5				
		802.11n(HT40)/ac(VHT40)	5755-5795	2				
		802.11ac(VHT80)	5775	1				
Note:	For frequencies used in Canada.	falling between 5150-5250MHz	and 5600-5650	MHz will not be				
Modulation Type:	802.11a: OFDM	02.11a: OFDM (64QAM, 16QAM, QPSK, BPSK)						
	802.11n: OFDM	, (BPSK, QPSK, 16QAM, 64QAM	1)					
		I (BPSK, QPSK, 16QAM, 64QA	,					
Channel Spacing:	802.11a/n(HT20)/ac(VHT20): 20MHz						
		ac(VHT40): 40MHz						
	802.11ac(VHT80	()						
Data Rate:		18/24/36/48/54Mbps						
	802.11n: MCS0-	•						
	802.11ac: MCS0	-9						
Antenna Gain:	Antenna 1:2.99d	Bi; (Provided by manufacturer)						
		Bi; (Provided by manufacturer)						
	Directional Gain:							
Antenna Type:	Antenna 1: PIFA							
Antenna 2: PIFA Antenna DFS Function: Slave without Radar detection								
TPC Function:	Not Support							
	1.1			Not Support				



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4.2 Power level setting using in test:

		<u>44</u>	000.44		000 44	
Channel	802.	1	802.11n(HT20)		802.11ac(VHT20)	
	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
36	default	default	default	default	14	14
40	default	default	default	default	14	14
48	default	default	default	default	14	14
52	default	default	default	default	14	14
60	default	default	default	default	14	14
64	default	default	default	default	14	14
100	default	default	default	default	14	14
116	default	default	default	default	14	14
140	default	default	default	default	14	14
149	default	default	default	default	14	14
157	default	default	default	default	14	14
165	default	default	default	default	14	14
	802.11r	n(HT40)	802.11ac(VHT40)			
Channel	Ant 1	Ant 2	Ant 1	Ant 2		
38	default	default	12	12		
46	default	default	12	12		
54	default	default	12	12		
62	default	default	12	12		
102	default	default	12	12		
110	default	default	12	12		
134	default	default	12	12		
151	default	default	12	12		
159	default	default	12	12		
	802.11ac	(VHT80)				
Channel	Ant 1	Ant 2				
42	15	15				
58	15	15				
106	15	15				
122	15	15				
155	17	17				



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24VAC,1500mA

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
NoteBook	Lenovo	E40	N/A
AC Adapter	HON-KWANG	A12-3A-10	N/A
Parameter of Adapter:			
Allenten	Rated Input	120VA	AC,60Hz,46W

Rated Output

4.4 Measurement Uncertainty

Adapter

No.	ltem	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 ⁻⁸
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
0	RE Dedicted Dever	5.2dB (Below 1GHz)
8	RF Radiated Power	5.9dB (Above 1GHz)
		4.2dB (Below 30MHz)
0	Dedicted Onumieurs Environian 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**

Item	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	10/12/2021	10/11/2022
3	LISN	Schwarzbeck	NNLK 8129	8129-143	10/12/2021	10/11/2022
4	Pulse Limiter	R&S	ESH3-Z2	100609	02/01/2021	01/31/2022
5	CE test Cable	Thermax	/	14	10/16/2021	10/15/2022
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	10/11/2021	10/10/2022
3	Spectrum Analyzer	Keysight	N9010A	MY56480443	02/01/2021	01/31/2022
4	Signal Generator	Agilent	N5182A	MY50142015	08/27/2021	08/26/2022
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	10/12/2021	10/11/2022
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	10/12/2021	10/11/2022
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	10/14/2021	10/13/2022
RF R	adiated Test					
1	Spectrum Analyzer	R&S	FSV40	101493	10/11/2021	10/10/2022
2	Signal Generator	Agilent	E8257C	MY43321570	10/18/2021	10/17/2022
3	Loop Antenna	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	10/18/2021	10/17/2022
11	Low Pass Filter	MICRO-TRONICS	VLFX-950	RV142900829	N.C.R	N.C.R
12	High Pass Filter	Mini-Circuits	VHF-1200	15542	N.C.R	N.C.R
13	Filter (5450MHz \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 is PIFA antenna, antenna 2 is PIFA antenna and no consideration of replacement.. The best case gain of the antenna 1 is 2.99dBi, antenna 2 is 2.83dBi

Antenna location: Refer to Appendix(internal photo)



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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 (Broadcom BCM43752A2XKUBG) 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 Enviror	nment:
Temperature:	24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar
Pretest these modes to find the worst case:	b:TX mode (Band 1)_Keep the EUT in 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:TX mode (Band 2A)_Keep the EUT in 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 802.11n(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(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(VHT80). Only the data of worst case is recorded in the report.
	d:TX mode (Band 2C)_Keep the EUT in 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(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.
	e:TX mode (Band 3)_Keep the EUT in 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(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.
The worst case for final test:	b:TX mode (Band 1)_Keep the EUT in 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(VHT80). Only the data of worst case is recorded in the report.



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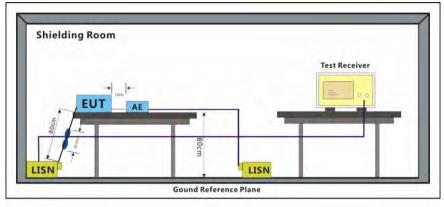
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7.1.2 Test Setup Diagram



7.1.3 Measurement Procedure and Data

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

2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50 μ 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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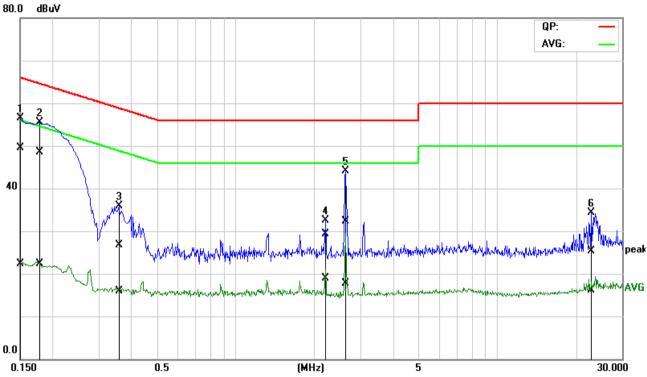
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Mode:b; Line:Live Line



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	0.1504	29.97	2.90	19.46	49.43	22.36	65.98	55.98	-16.55	-33.62	Pass
2*	0.1764	29.09	2.85	19.46	48.55	22.31	64.65	54.65	-16.10	-32.34	Pass
3	0.3549	7.15	-3.58	19.49	26.64	15.91	58.85	48.85	-32.21	-32.94	Pass
4	2.2027	9.78	-0.76	19.60	29.38	18.84	56.00	46.00	-26.62	-27.16	Pass
5	2.6607	12.72	-1.85	19.62	32.34	17.77	56.00	46.00	-23.66	-28.23	Pass
6	22.9390	5.06	-4.22	20.32	25.38	16.10	60.00	50.00	-34.62	-33.90	Pass



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Mode:b; Line:Neutral Line

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80.0 dBuV QP: AVG: 3 Ψ ¥ 40 3 **4** Mull with how why a have peak лмл Alexander Alex the Male bushell WWMM AVG da. 0.0 0.150 0.5 (MHz) 5 30.000

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	30.25	3.03	19.42	49.67	22.45	66.00	56.00	-16.33	-33.55	Pass
2	0.1772	28.68	2.48	19.43	48.11	21.91	64.62	54.62	-16.51	-32.71	Pass
3	0.3503	7.50	-3.46	19.47	26.97	16.01	58.96	48.96	-31.99	-32.95	Pass
4	2.2051	8.49	-1.83	19.58	28.07	17.75	56.00	46.00	-27.93	-28.25	Pass
5	2.6661	8.45	-2.72	19.60	28.05	16.88	56.00	46.00	-27.95	-29.12	Pass
6	3.1075	6.44	-4.85	19.63	26.07	14.78	56.00	46.00	-29.93	-31.22	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:TX mode (Band 1) Keep the EUT in 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:TX mode (Band 2A) Keep the EUT in 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:TX mode (Band 2C) Keep the EUT in 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(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

e:TX mode (Band 3)_Keep the EUT in 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(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(VHT80). Only the data of worst case is recorded in the report.



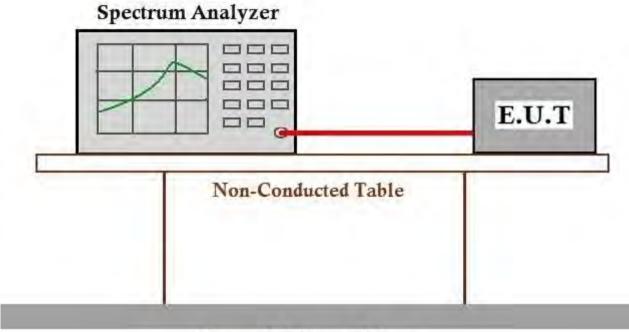
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7.2.2 Test Setup Diagram



Ground Reference Plane

7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHCR211100084502



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7.3 99% Bandwidth

Test RequirementN/ATest 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:TX mode (Band 1) Keep the EUT in 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:TX mode (Band 2A) Keep the EUT in 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(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(VHT80). Only the data of worst case is recorded in the report.

d:TX mode (Band 2C)_Keep the EUT in 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(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(VHT80). Only the data of worst case is recorded in the report.

e:TX mode (Band 3)_Keep the EUT in 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(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(VHT80). Only the data of worst case is recorded in the report.

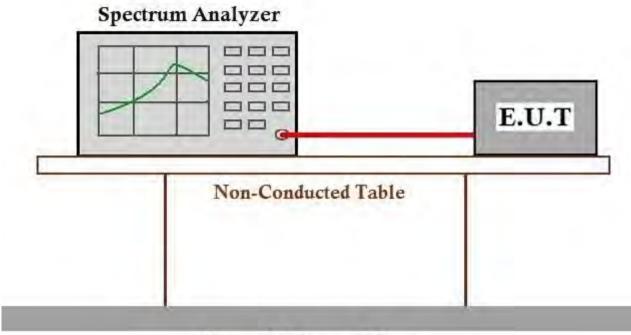


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7.3.2 Test Setup Diagram



Ground Reference Plane

7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHCR211100084502



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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 50 % RH Atmospheric Pressure: 1010 mbar Humidity: Test mode: b:TX mode (Band 1) Keep the EUT in 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:TX mode (Band 2A)_Keep the EUT in 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:TX mode (Band 2C)_Keep the EUT in 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.

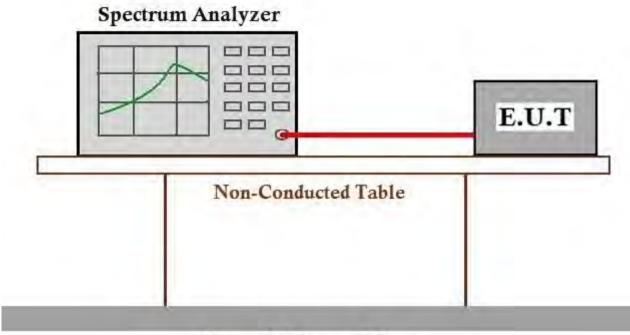


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7.4.2 Test Setup Diagram



Ground Reference Plane

7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHCR211100084502



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

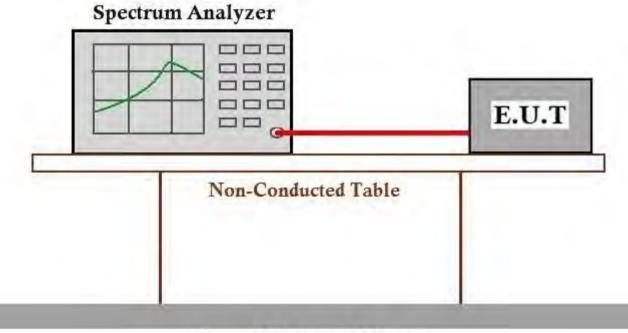
Test Requirement	47 CFR Part 15, Subpart C 15.407 (e)
Test Method:	KDB 789033 D02 II C 2
Limit:	≥500 kHz

7.5.1 E.U.T. Operation

Operating Environment:

Temperature:24 °CHumidity:50 % RHAtmospheric Pressure:1010 mbarTest modee:TX mode (Band 3)_Keep the EUT in 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.

7.5.2 Test Setup Diagram



Ground Reference Plane

7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHCR211100084502



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7.6 Maximum Conducted output power

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

For FCC

Frequency band(MHz)		Limit	
5450 5050		≤1W(30dBm) for master device	
5150-5250		≤250mW(24dBm) for client device	
5250-5350		≤250mW(24dBm) for client device or 11dBm+10logB*	
5470-5725		≤250mW(24dBm) for client device or 11dBm+10logB*	
5725-5850		≤1W(30dBm)	
Remark:	* Where B is the 26dB emission bandwidth in MHz.		
	The maximum conducted output power must be measured over any interval o continuous transmission using instrumentation calibrated in terms of an rms-equivalen voltage.		

For ISED

Frequency Band (MHz)		Limit
5150-5	5250	Maximum e.i.r.p. ≤ 200 mW (23.01dBm) or 10 + 10 log10 B
5250-5350 5470-5725		Maximum conducted output power ≤ 250 mW (23.98dBm) or 11 + 10 log10 B, whichever power is less;
		Maximum e.i.r.p. ≤1.0 W (30dBm) or 17 + 10 log10 B
5725-5850		Maximum conducted output power ≤1.0 W (30dBm)
Remark:	* Where B is the	ne 99% 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-equivale voltage.	



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7.6.1 E.U.T. Operation

Operating Environment:						
Temperature:	24 °C	Humidity:	50 % RH	Atmospheric Pressure:	1010 mbar	
Test mode:					e with all tested and a rate @ s the worst TEEE ort. de with all tested and a rate @ s the worst TEEE	
	modulation typ found the data MCS0 is the w case of IEEE 8 802.11ac(VHT 802.11ac(VHT 802.11ac(VHT e:TX mode (Ba modulation typ found the data MCS0 is the w case of IEEE 8 802.11ac(VHT 802.11ac(VHT	es. All data r rate @ 6Mb orst case of 02.11n(HT4 20); data rate 40); data rate 80). Only the and 3)_Keep es. All data r rate @ 6Mb orst case of 02.11n(HT4 20); data rate 40); data rate	ates for each n ps is the worst IEEE 802.11n(I 0); data rate @ e @ MCS0 is th e @ MCS0 is th e data of worst of the EUT in cor rates for each n ps is the worst IEEE 802.11n(I 0); data rate @ e @ MCS0 is th e @ MCS0 is th	ontinuously transmitting mo- nodulation type have been to case of IEEE 802.11a; data HT20); data rate @ MCS0 i MCS0 is the worst case of ne worst case of IEEE case is recorded in the repo- ntinuously transmitting mod- nodulation type have been to case of IEEE 802.11a; data HT20); data rate @ MCS0 i MCS0 is the worst case of ne worst case of IEEE ne worst case of IEEE ne worst case of IEEE ne worst case of IEEE ne worst case of IEEE case is recorded in the repo-	tested and a rate @ s the worst TEEE ort. e with all tested and a rate @ s the worst TEEE	

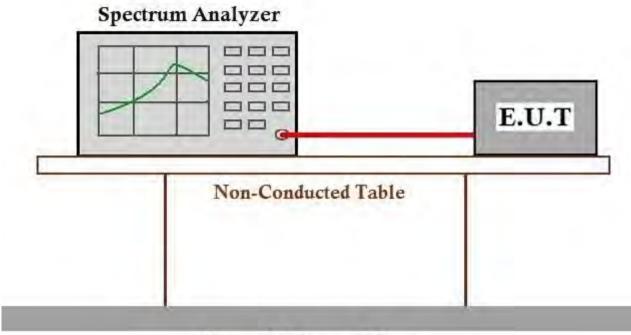


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7.6.2 Test Setup Diagram



Ground Reference Plane

7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHCR211100084502



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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:

Frequency	y band(MHz)	Limit			
5150 F	250	≤17dBm in 1MHz for master device			
5150-52	250	≤11dBm in 1MHz for client device			
5250-5	5250-5350 ≤11dBm in 1MHz for client device				
5470-5	725	≤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 direct connection of a calibrated test instrument to the equipment under test.				



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7.7.1 E.U.T. Operation

Operating Enviror	Operating Environment:								
Temperature:	24 °C	Humidity:	50 % RH	Atmospheric Pressure:	1010 mbar				
Test mode:					tested and a rate @ s the worst TEEE ort. de with all tested and a rate @ s the worst TEEE				
	modulation types. All data rates for each modulation type have been tested a 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 w 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:TX mode (Band 3) Keep the EUT in continuously transmitting mode with a								
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); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.									



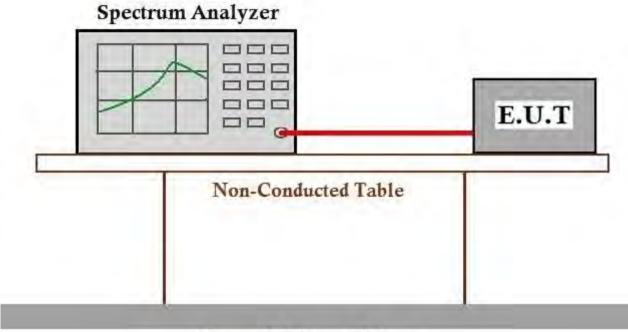
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7.7.2 Test Setup Diagram



Ground Reference Plane

7.7.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHCR211100084502



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7.8 Radiated Emissions

Test Requirement	47 CFR Part 15, Subpart C 15.209 & 15.407(b)
Test Method:	KDB 789033 D02 II G
Limit:	

Limit:

For transmitters operating in the 5.15-5.25 GHz band:	All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).
For transmitters operating in the 5.25-5.35 GHz band:	All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).
For transmitters operating in the 5.47-5.725 GHz band:	All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz (68.2dBuV/m).
For transmitters operating in the 5.725-5.85 GHz band:	(i) All emissions shall be limited to a level of -27 dBm/MHz (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 Environment:								
	Temperature:	24	°C	Humidity:	50	% RH	Atmospheric Pressure:	1010	mbar
	Test mode:						nd 2 orst all nd		
		802. 802.	.11ac(VHT4 .11ac(VHT8	0); data rate 30). Only the	e @ N data	ACS0 is the of worst ca	worst case of IEEE use is recorded in the repo		
		d:TX mode (Band 2C)_Keep the EUT in continuously transmitting mode with a modulation types. All data rates for each modulation type have been tested an 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 wor 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.						nd ?	
	e:TX mode (Band 3)_Keep the EUT in 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.						nd ?		



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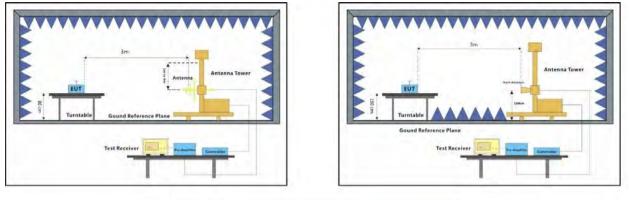
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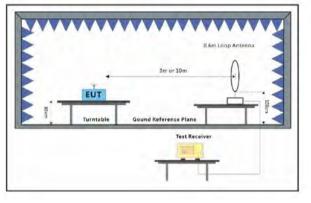


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7.8.2 Test Setup Diagram







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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.



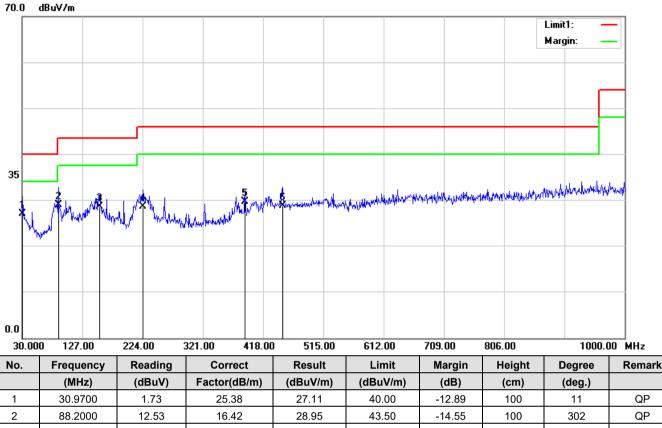
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Below 1GHz Mode:b; Polarization:Horizontal.



1	30.9700	1.73	25.38	27.11	40.00	-12.89	100	11	QP
2	88.2000	12.53	16.42	28.95	43.50	-14.55	100	302	QP
3	155.1300	8.81	19.74	28.55	43.50	-14.95	300	258	QP
4	224.0000	10.91	17.72	28.63	46.00	-17.37	400	120	QP
5	388.9000	6.37	23.31	29.68	46.00	-16.32	200	114	QP
6	450.0100	4.46	24.31	28.77	46.00	-17.23	200	23	QP



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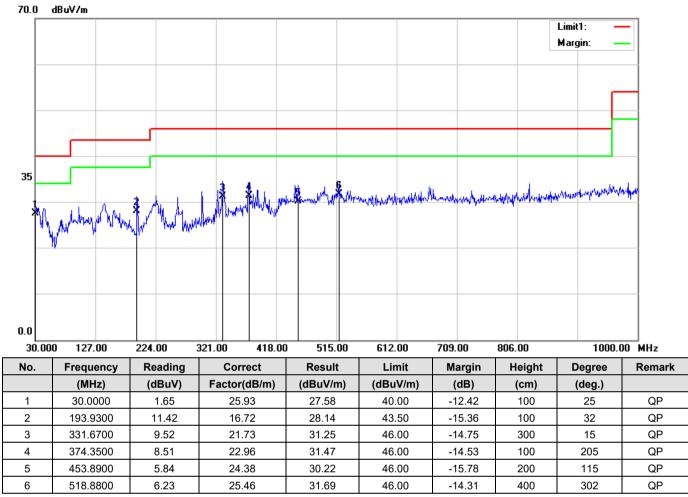
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Mode:b; Polarization: Vertical.



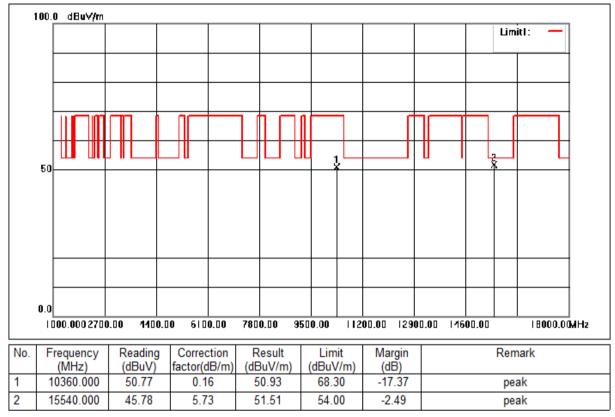


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Mode:b; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



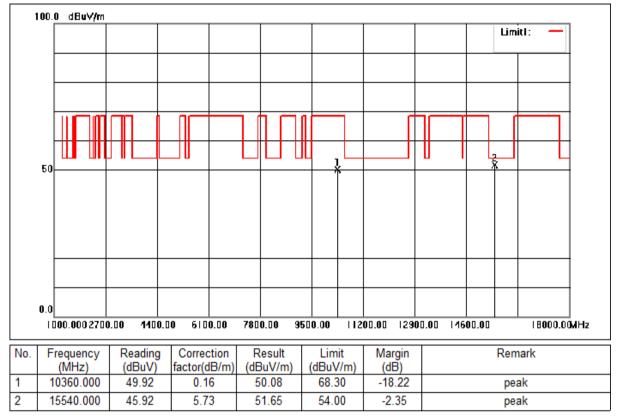
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Mode:b; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



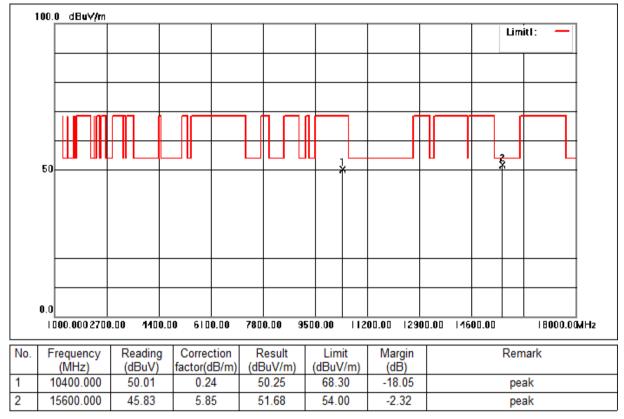
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Mode:b; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:middle

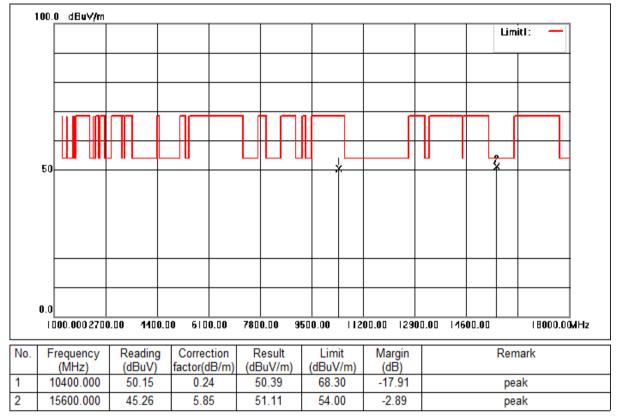


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Mode:b; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:middle

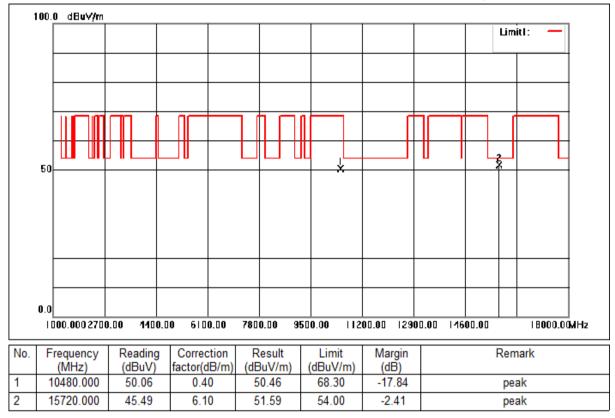


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Mode:b; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High



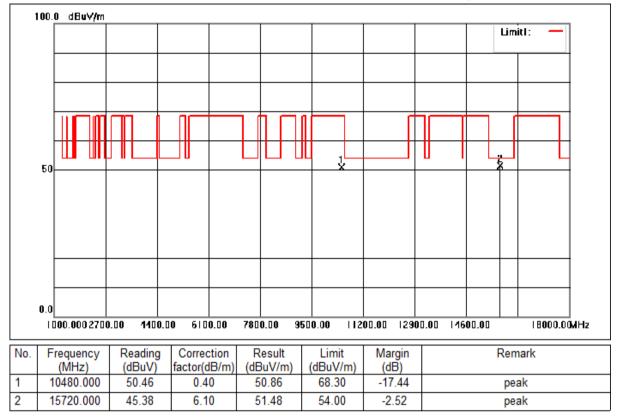
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Mode:b; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High

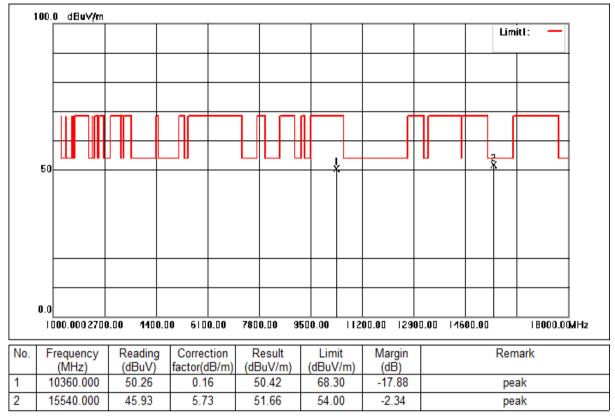


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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low

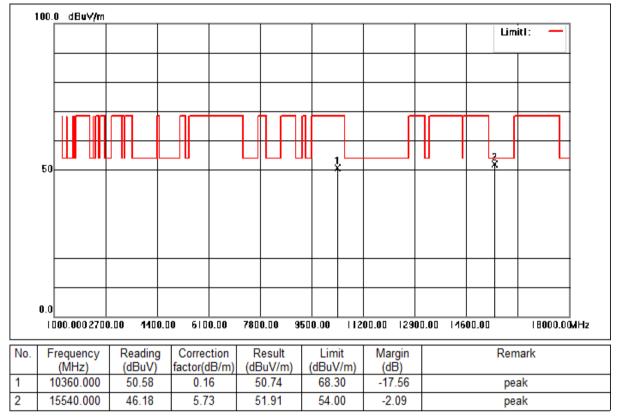


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Mode:b; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low

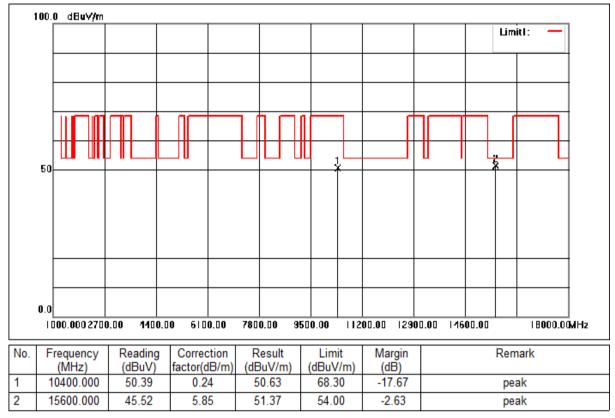


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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle

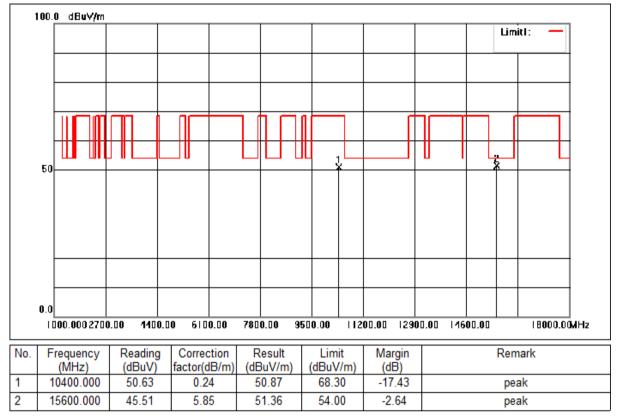


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Mode:b; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle

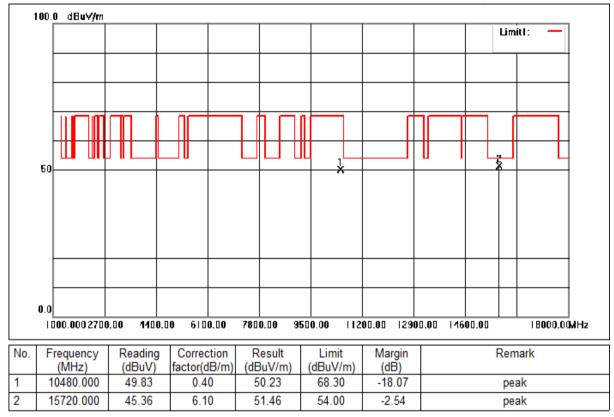


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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High

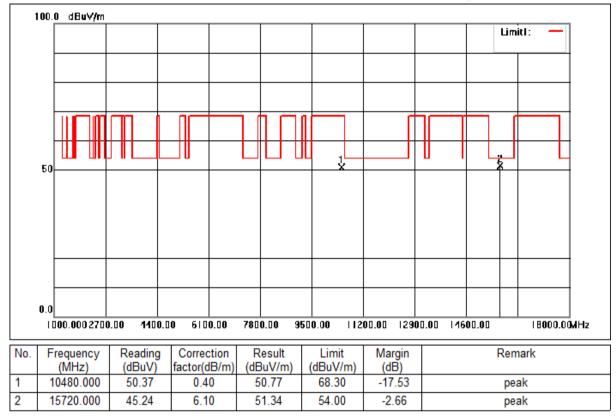


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Mode:b; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High

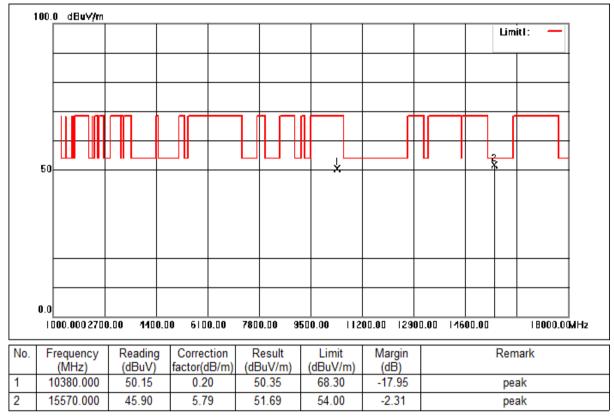


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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



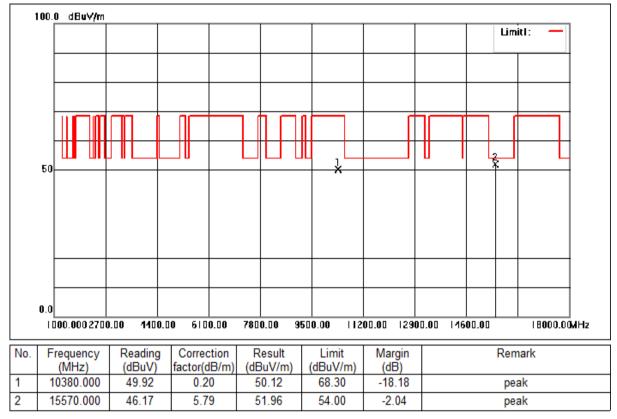
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Mode:b; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low

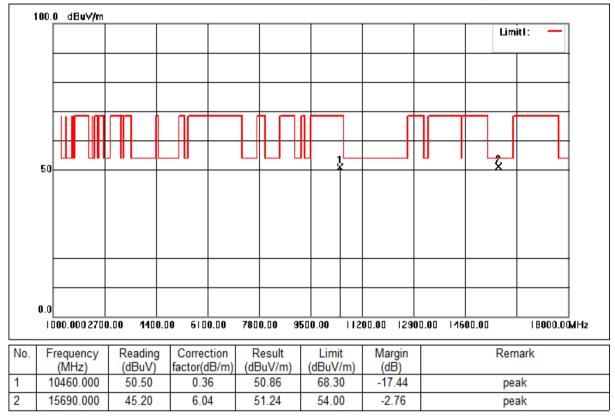


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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



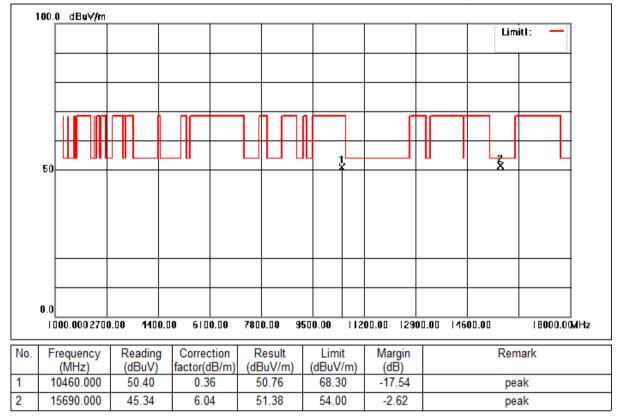
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Mode:b; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



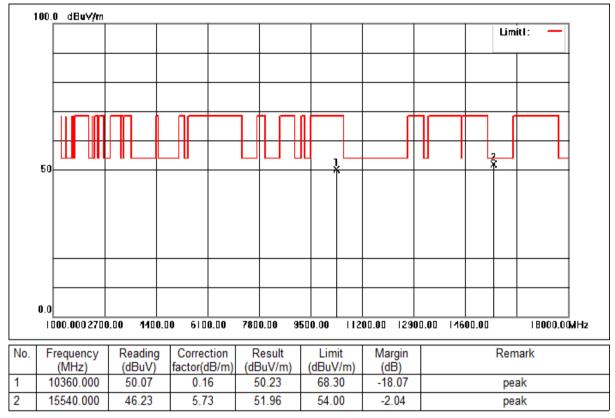
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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low

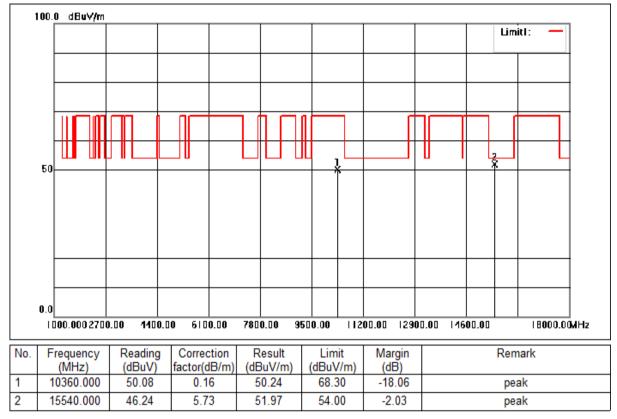


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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low

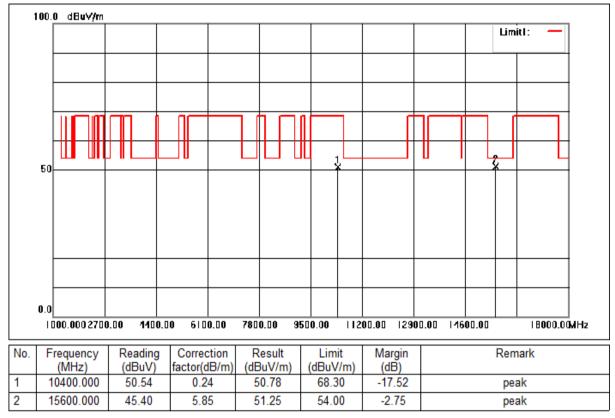


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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:middle



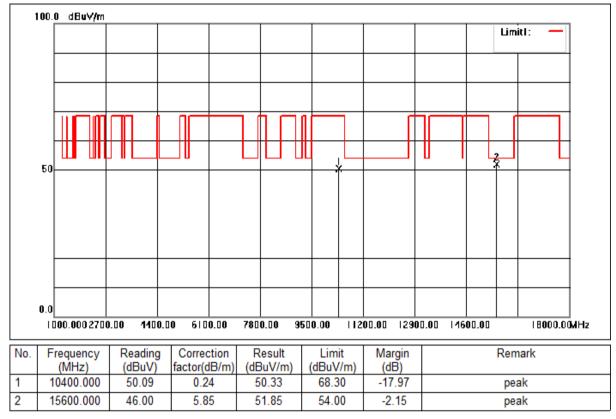
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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:middle

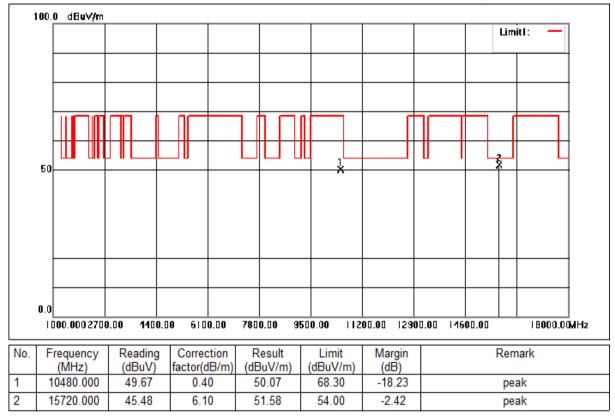


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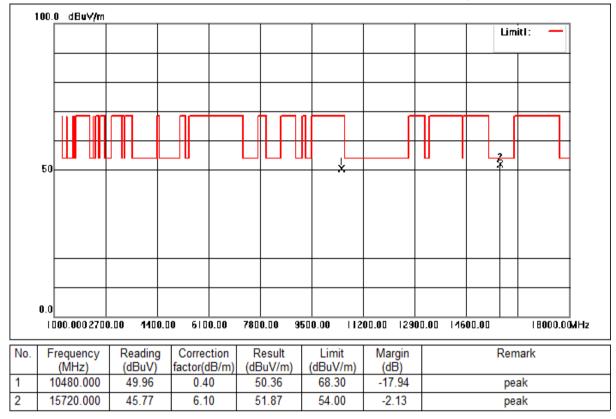
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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High

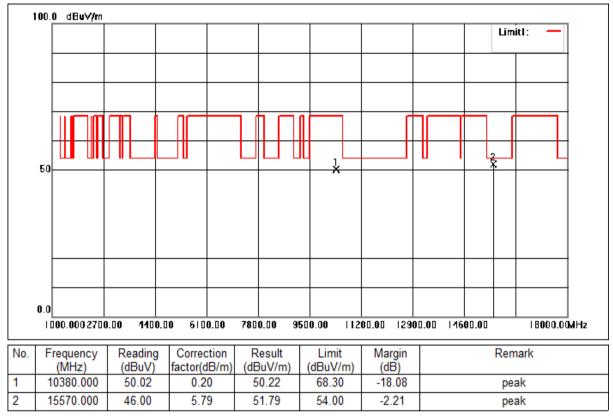


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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



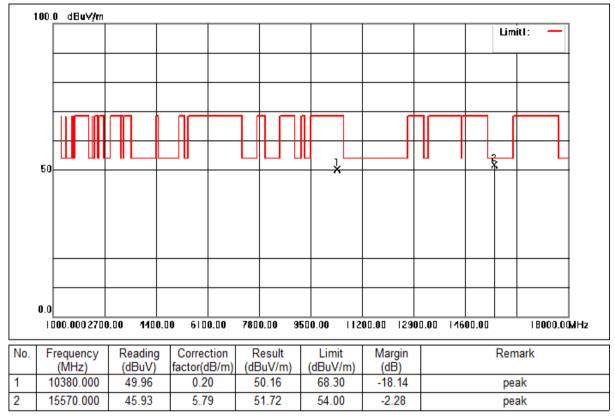
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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low

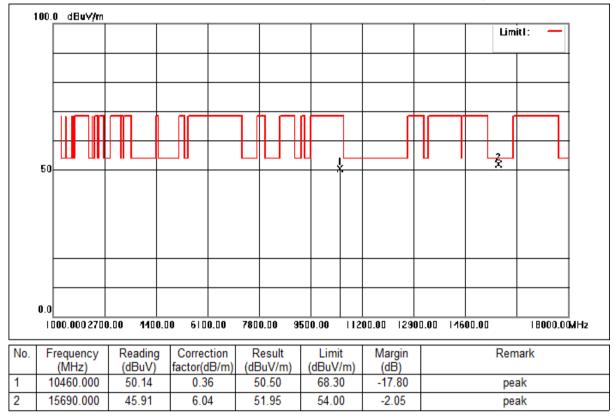


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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High



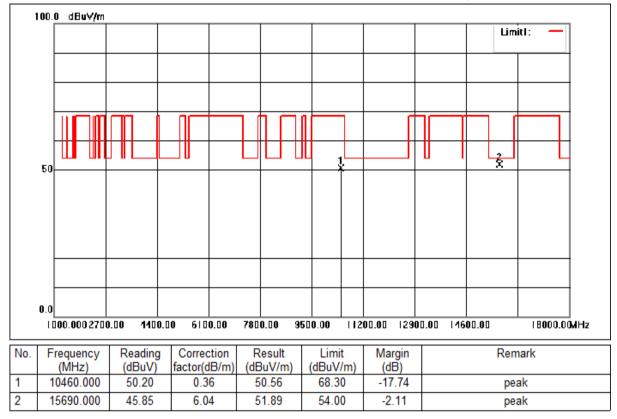
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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High



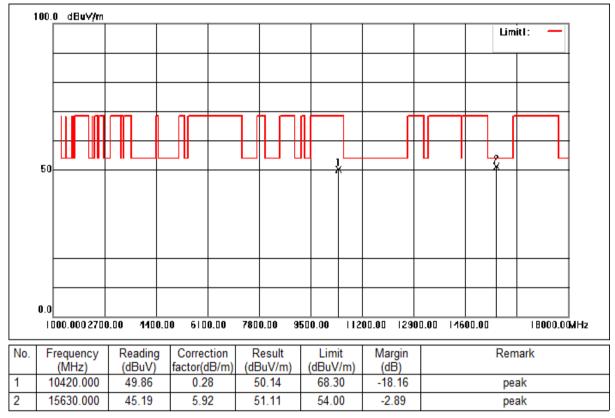
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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:middle

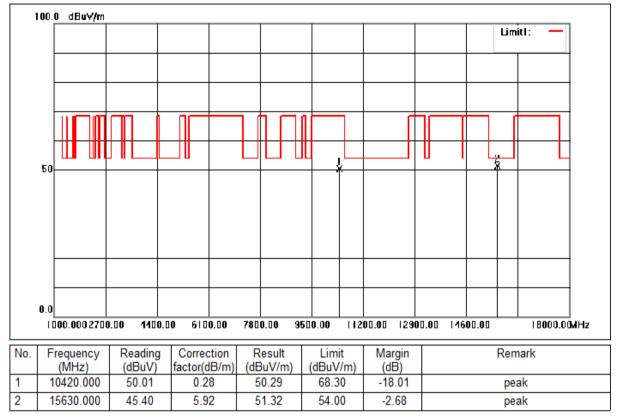


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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:middle

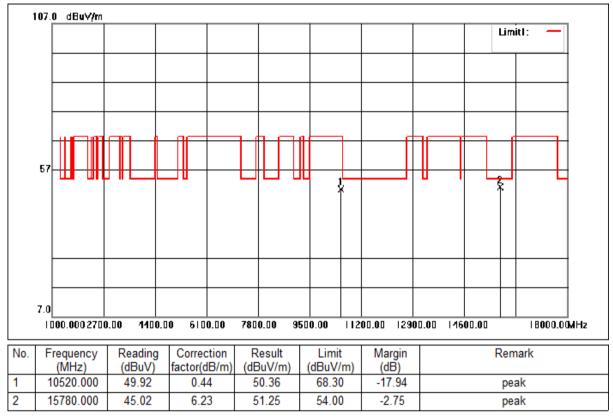


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Mode:c; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



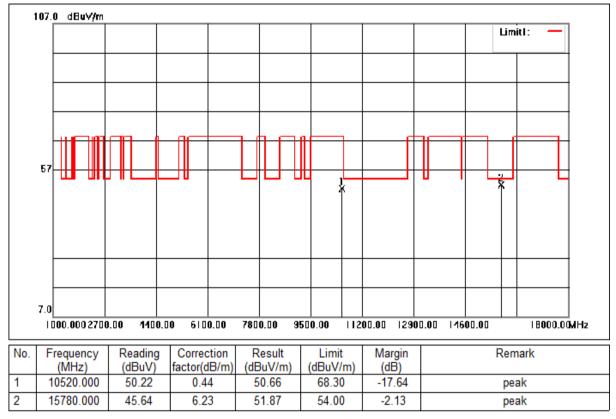
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Mode:c; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low

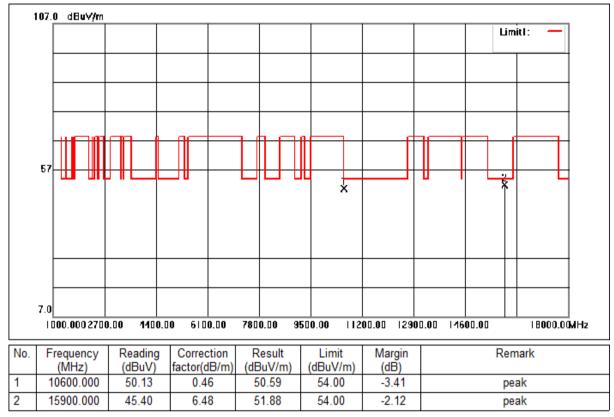


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Mode:c; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:middle



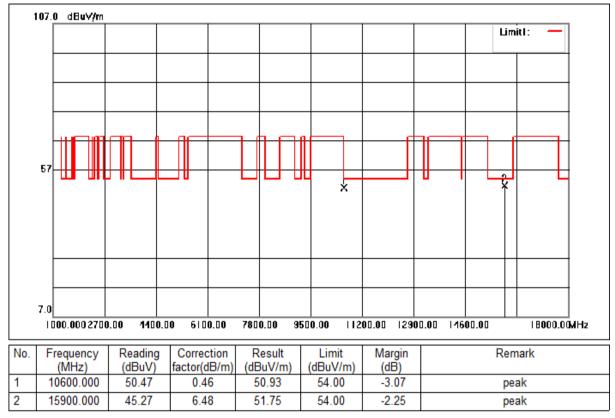
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Mode:c; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:middle



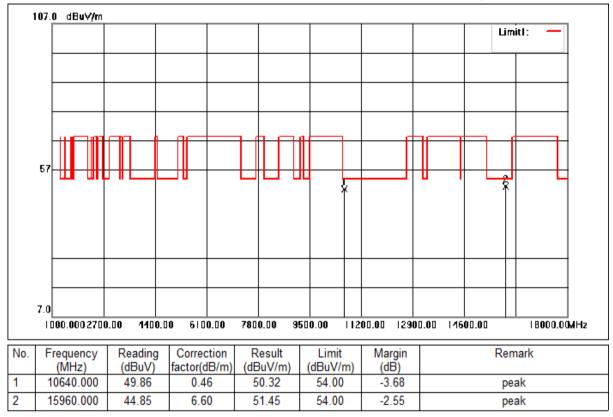
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Mode:c; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High



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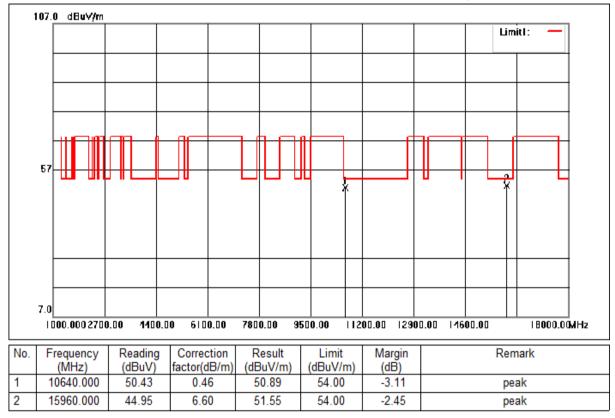
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Mode:c; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High

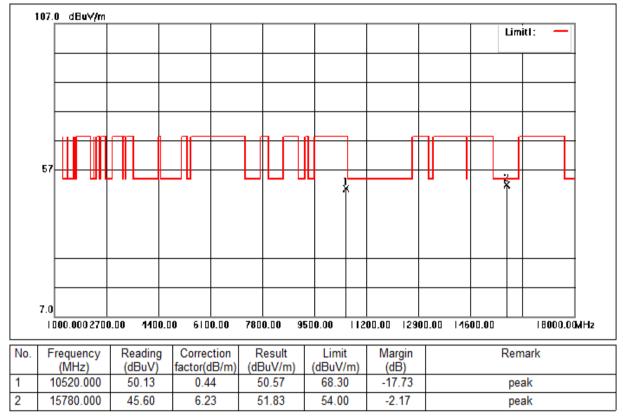


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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



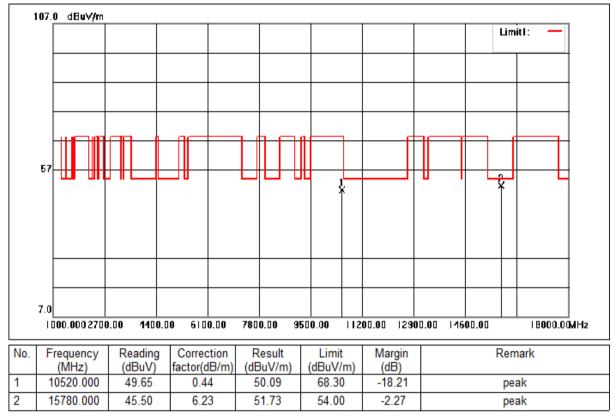
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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low

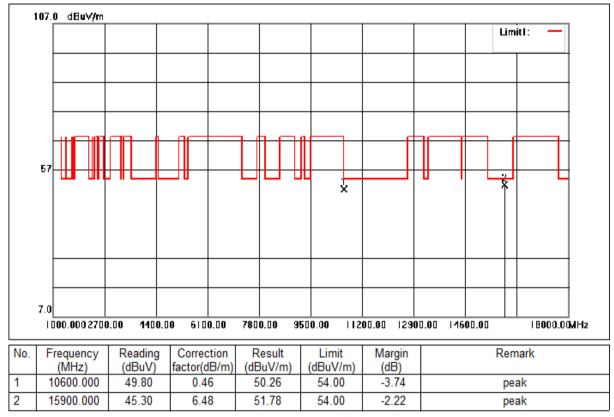


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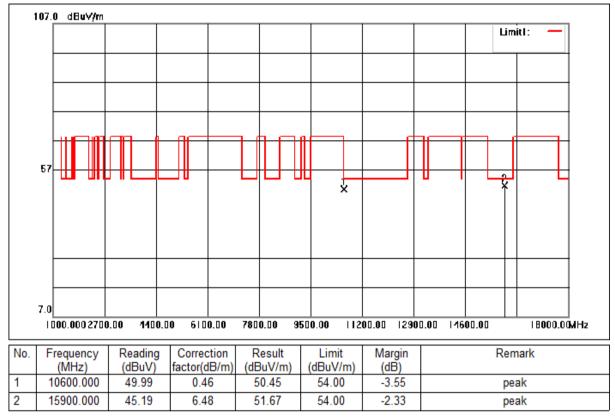
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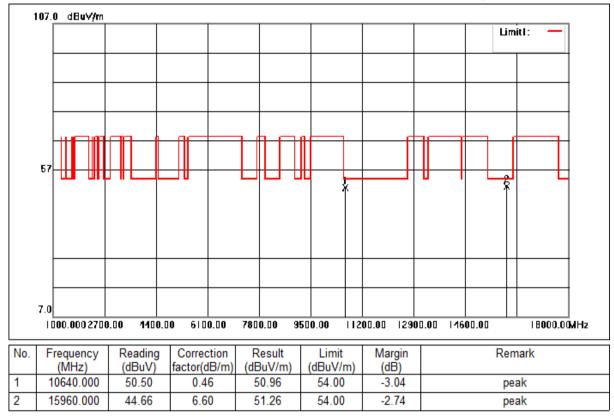


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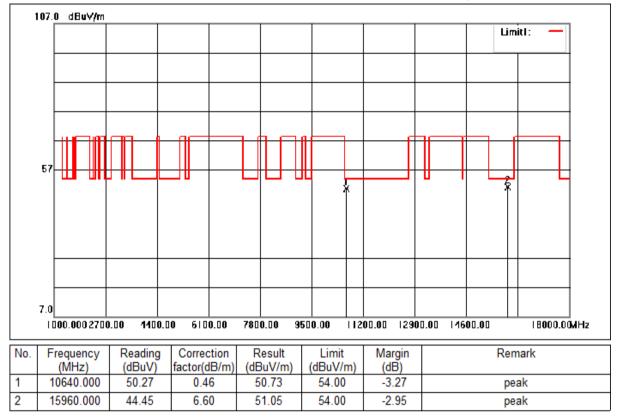
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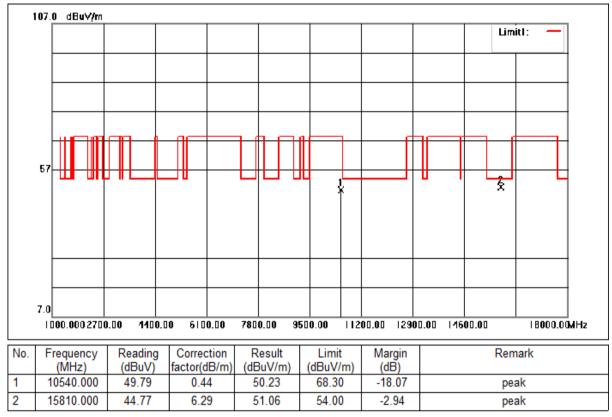


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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



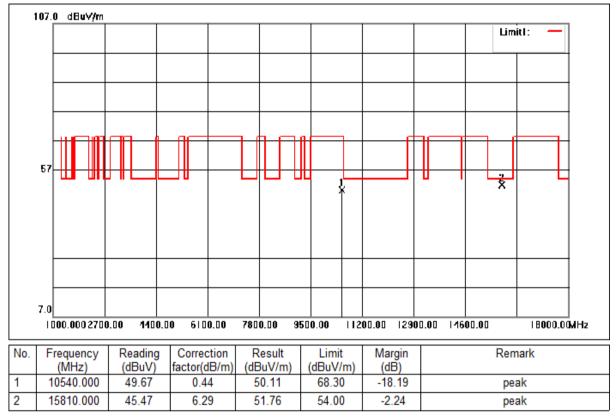
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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low

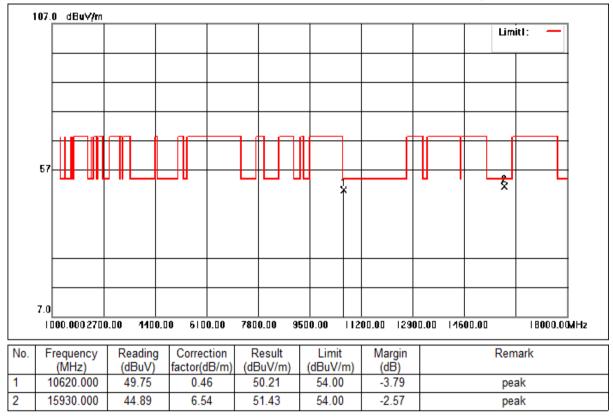


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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



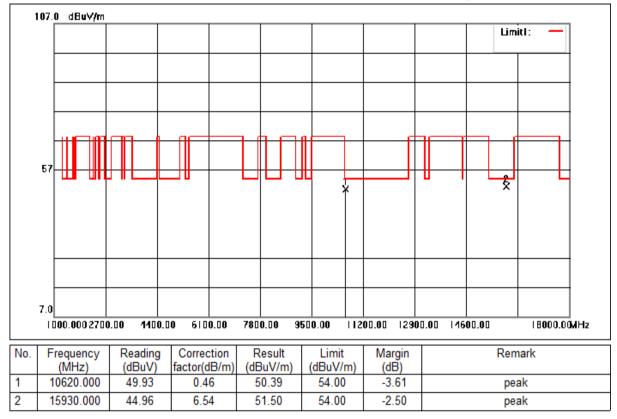
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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High

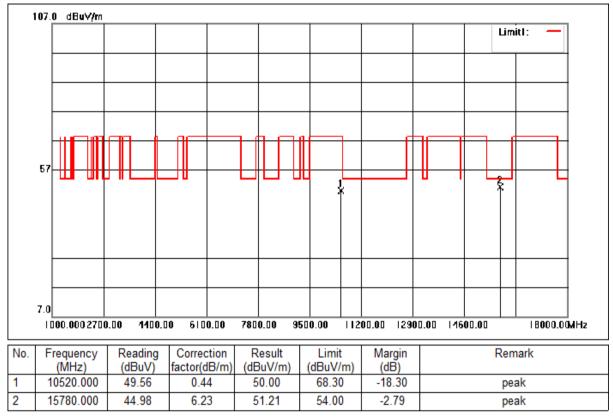


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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low



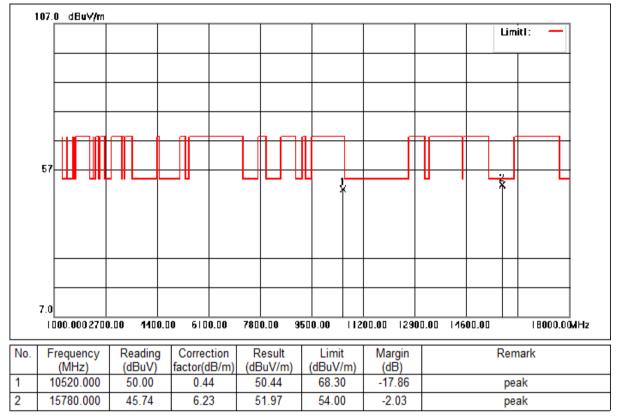
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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low



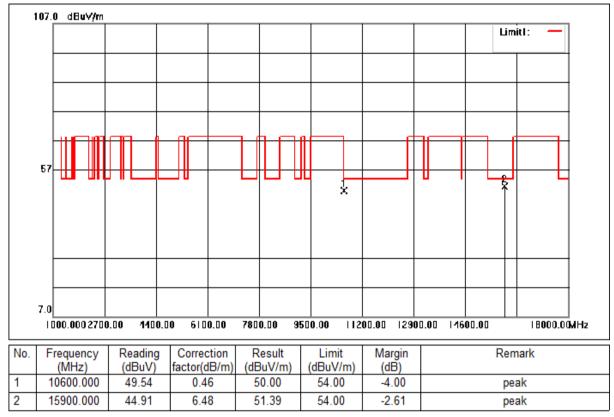
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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:middle

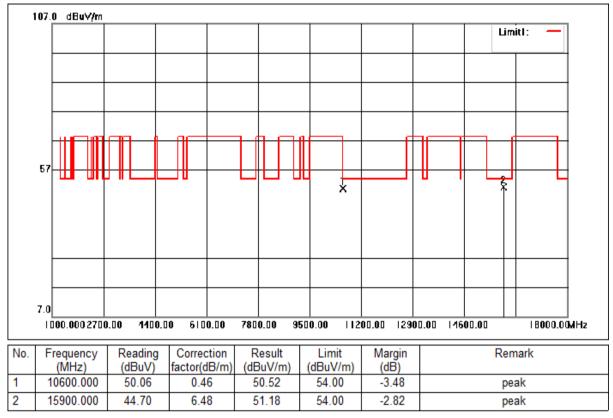


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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:middle

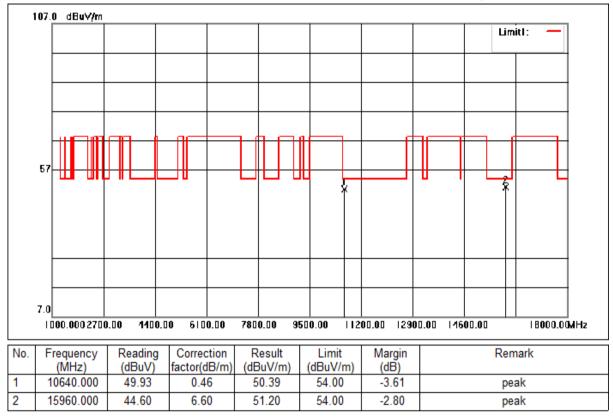


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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High

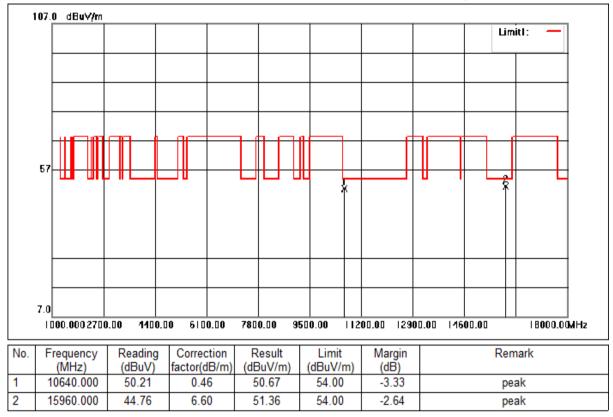


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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High

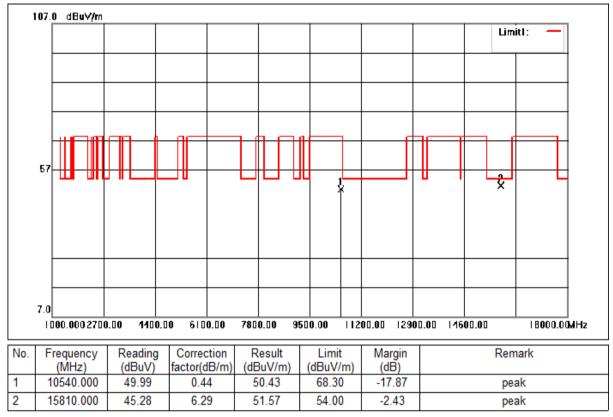


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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



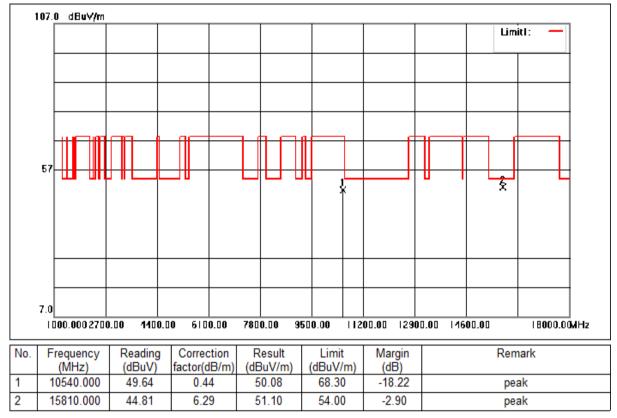
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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



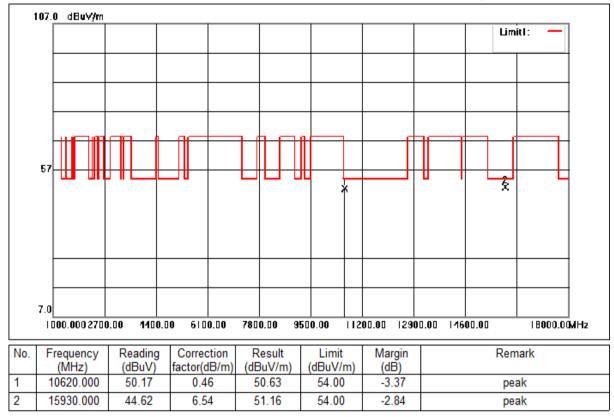
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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High

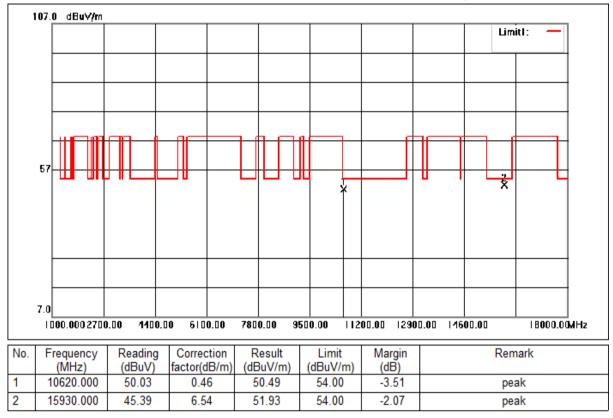


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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High

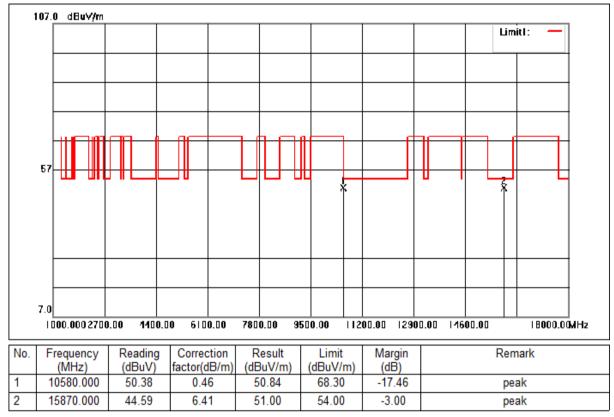


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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:middle

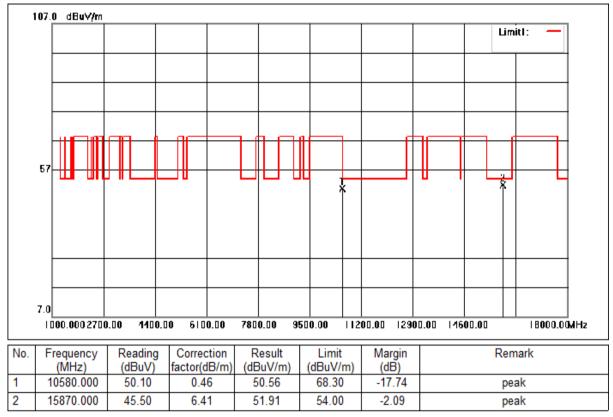


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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:middle

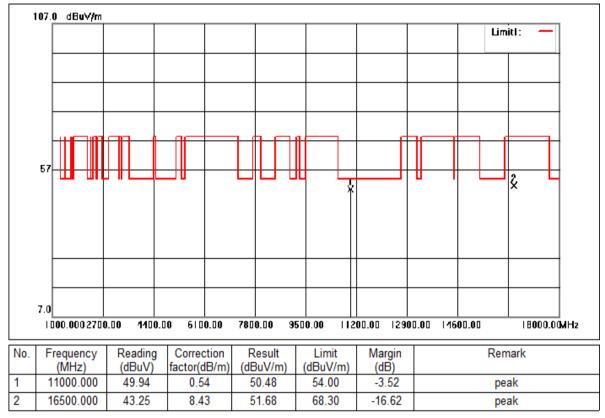


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Mode:d; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low

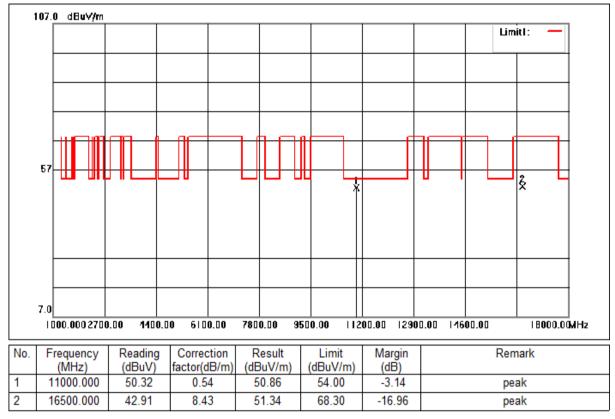


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Mode:d; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low

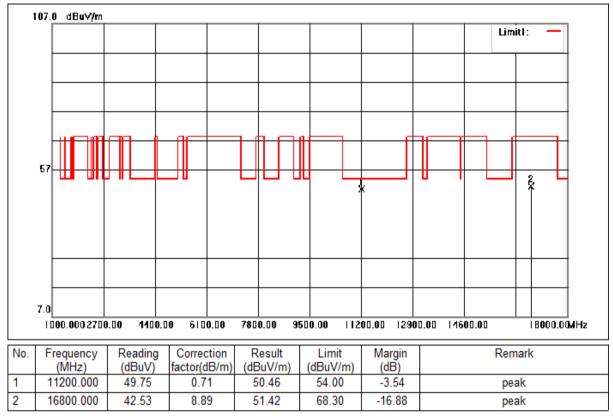


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Mode:d; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:middle

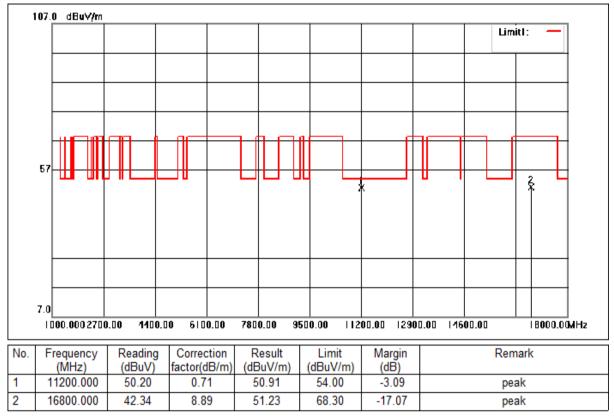


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Mode:d; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:middle

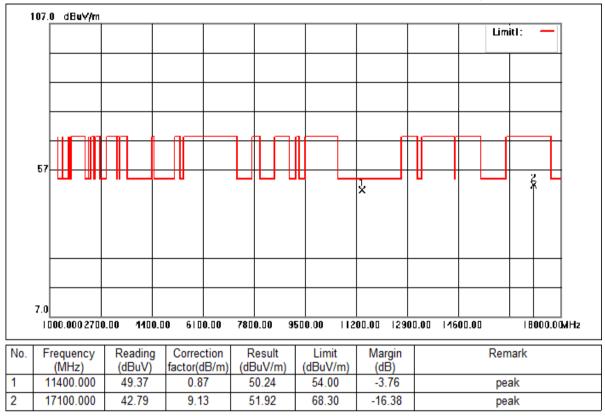


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Mode:d; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High

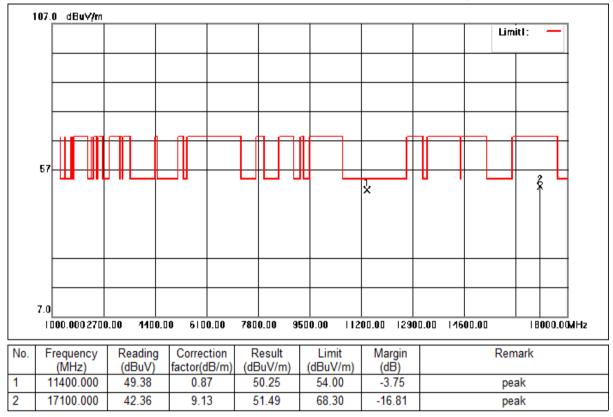


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Mode:d; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High

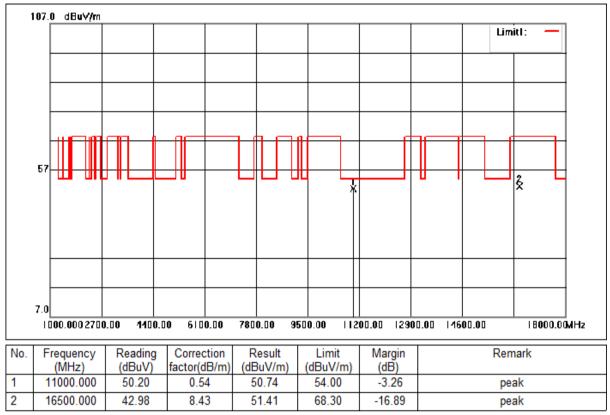


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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low

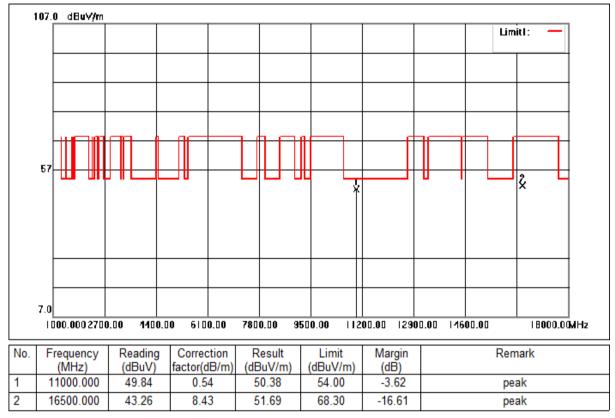


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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



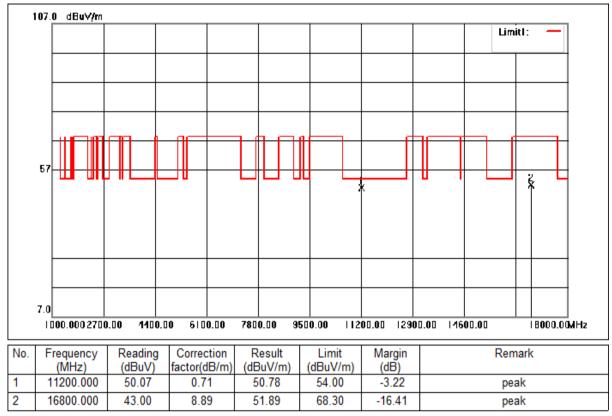
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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle

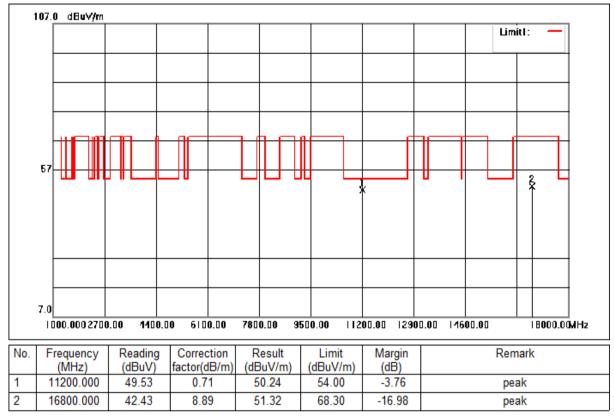


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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle

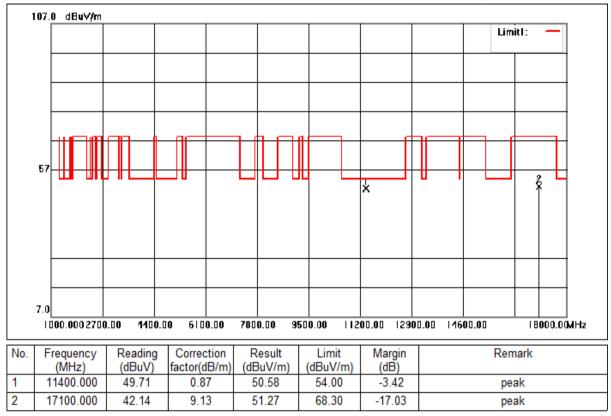


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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



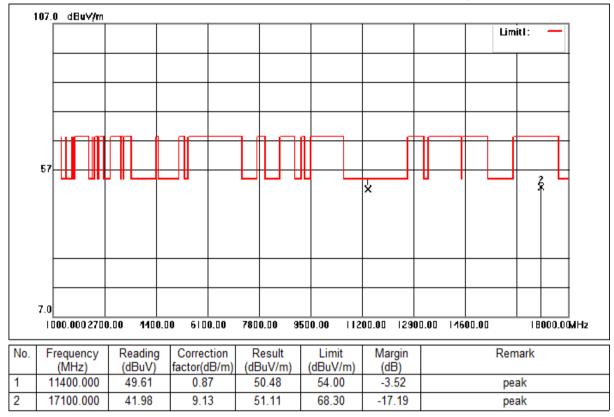
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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



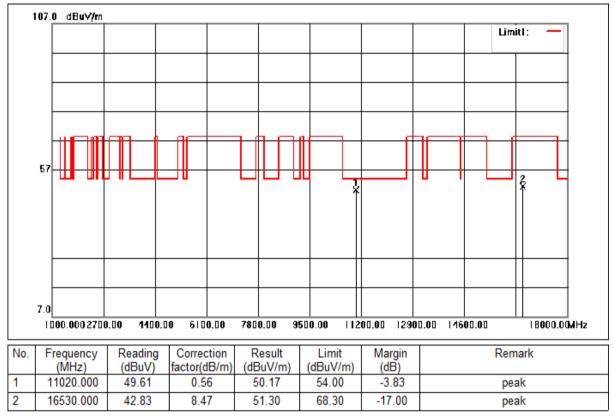
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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low

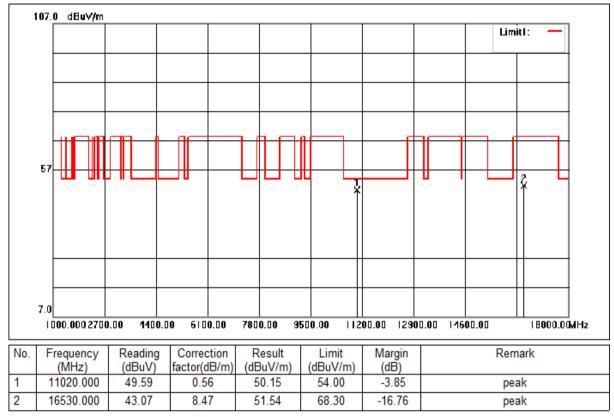


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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



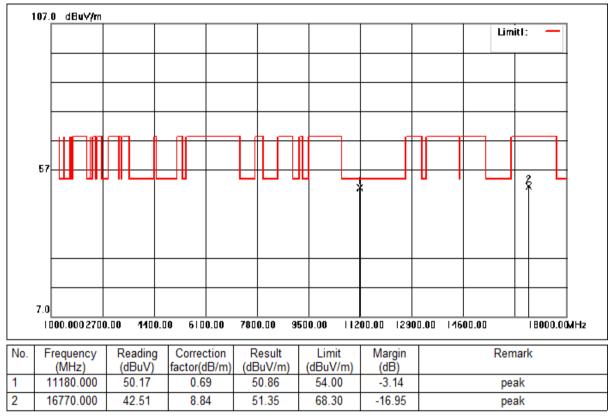
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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:middle

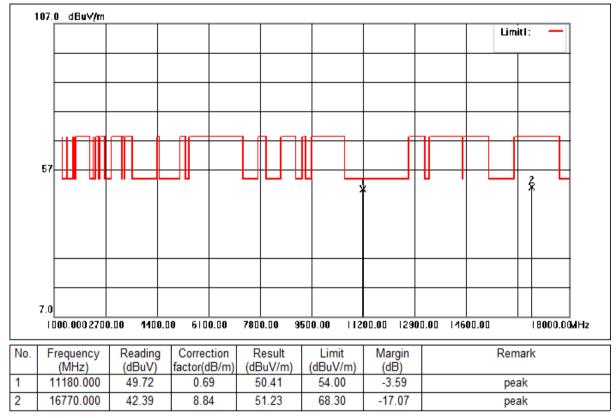


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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:middle

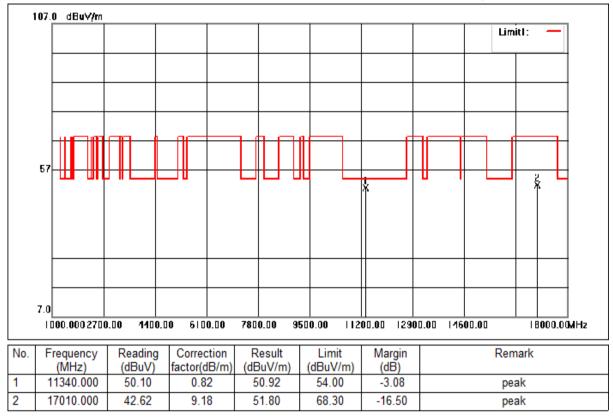


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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High

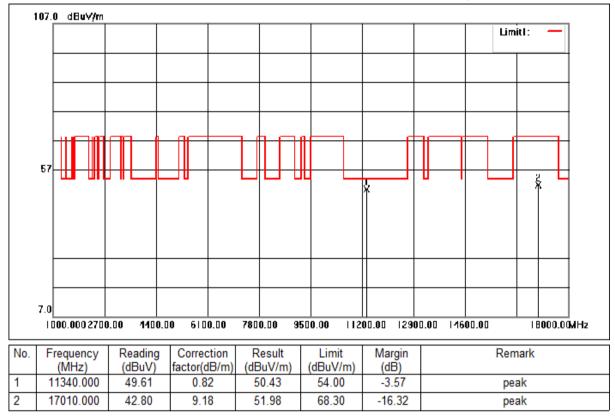


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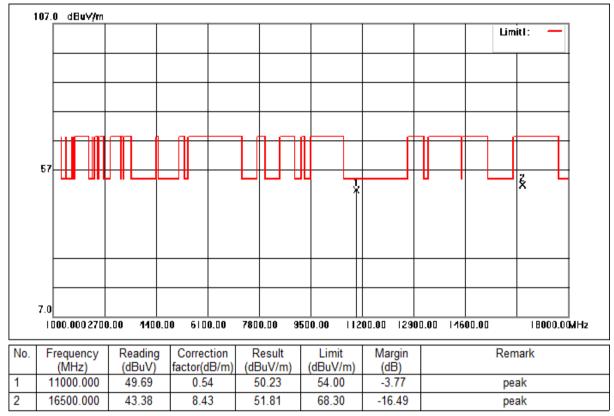


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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low

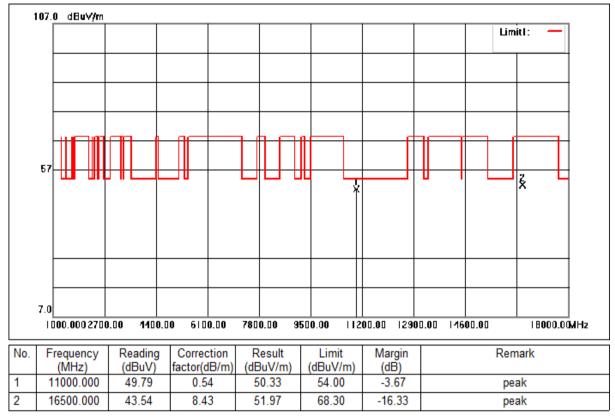


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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low

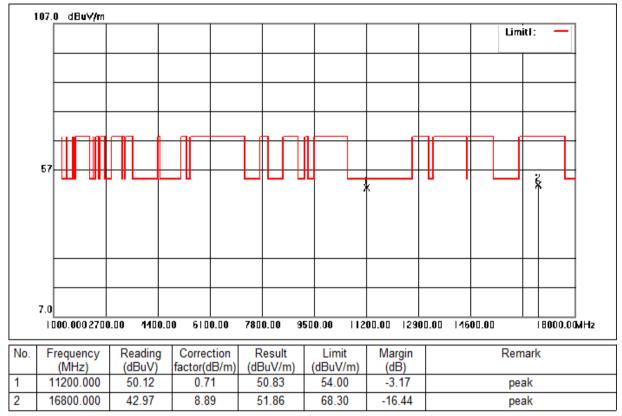


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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:middle

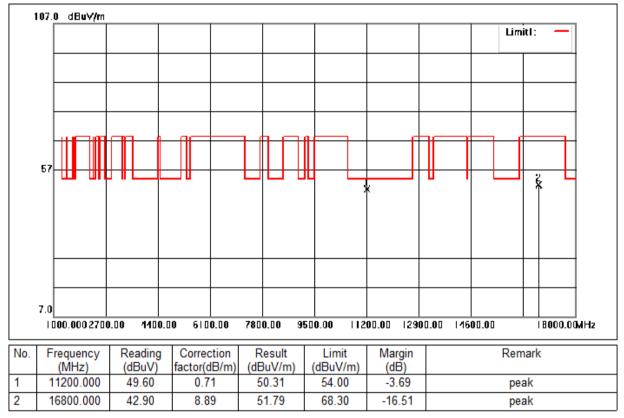


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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:middle

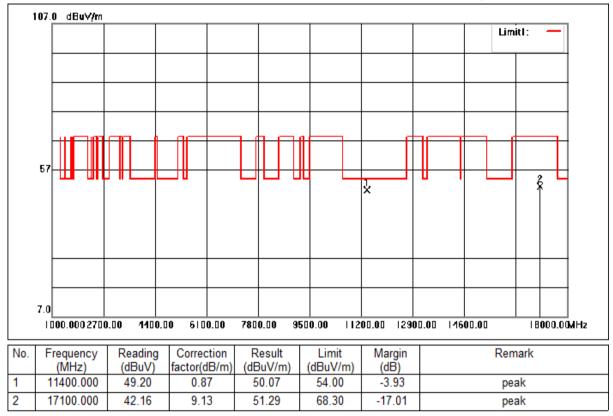


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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High

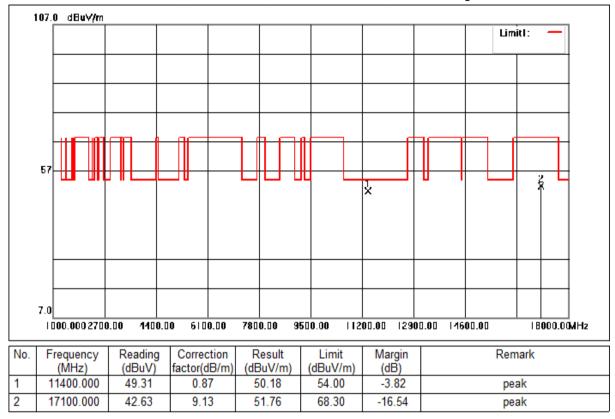


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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High

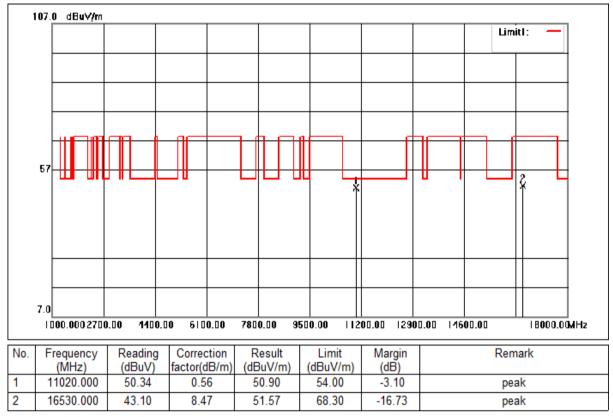


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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low

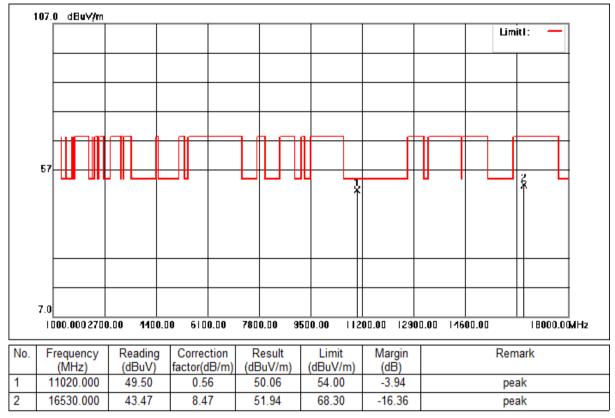


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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low

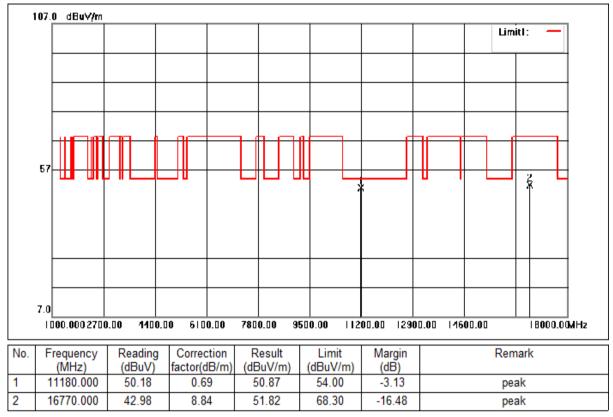


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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:middle



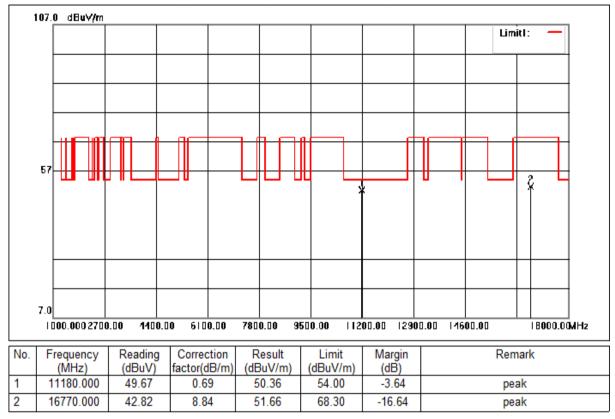
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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:middle

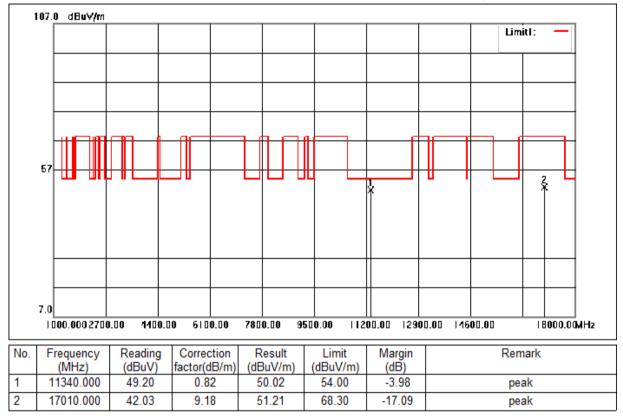


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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High

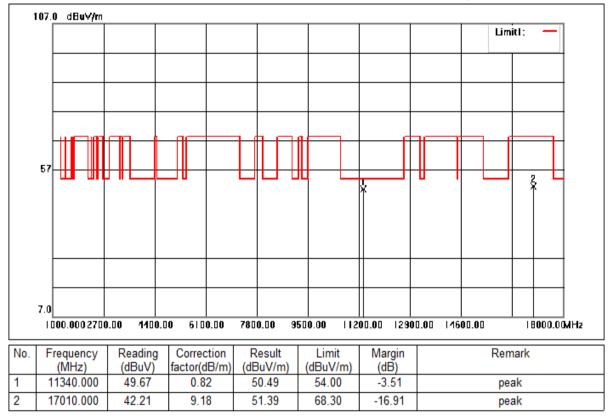


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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High



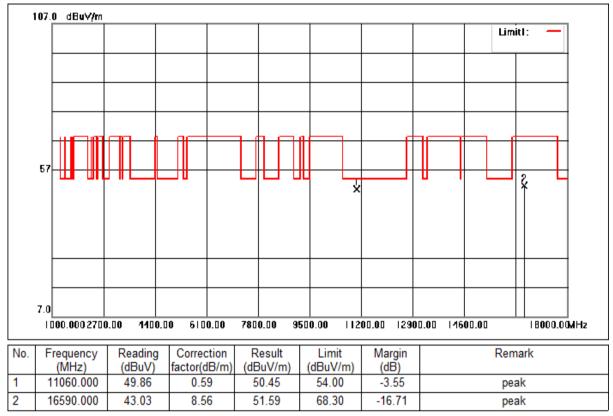
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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low

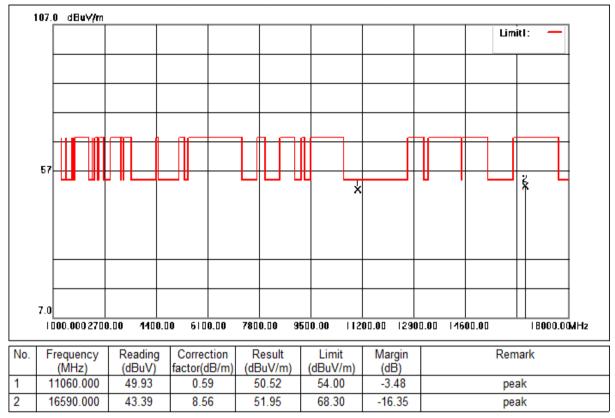


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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low



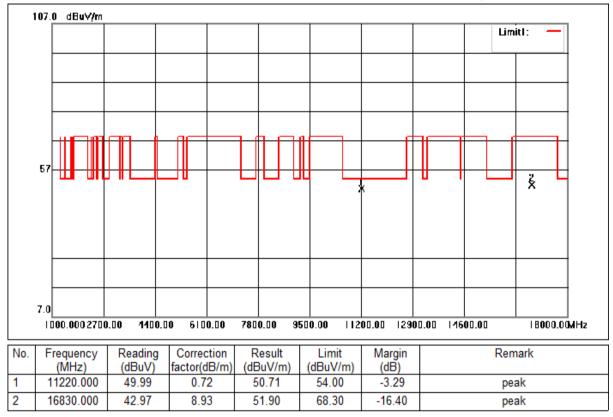
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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:High



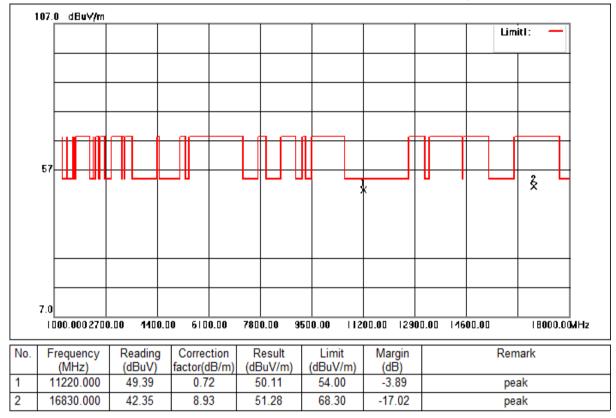
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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:High



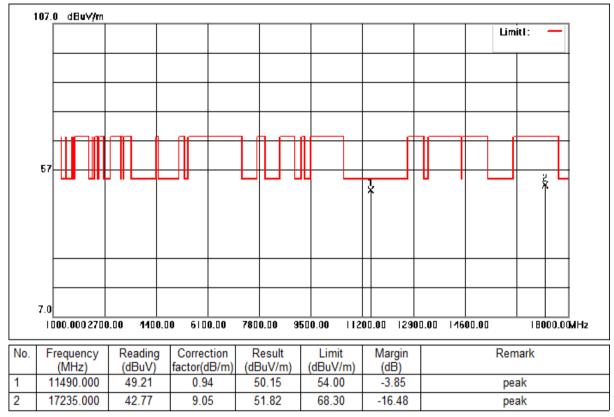
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Mode:e; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



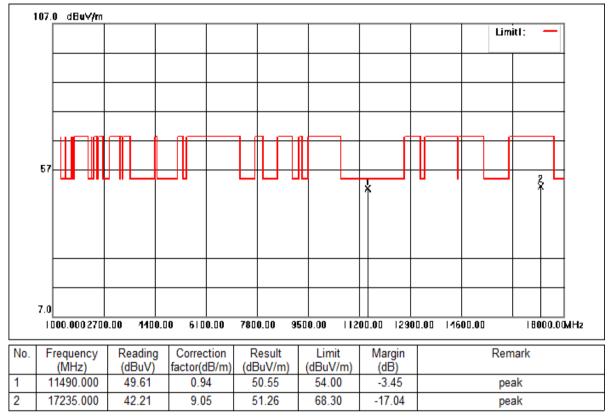
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Mode:e; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



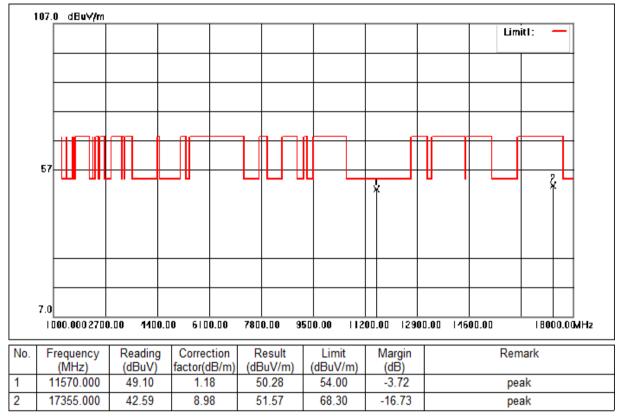
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Mode:e; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:middle



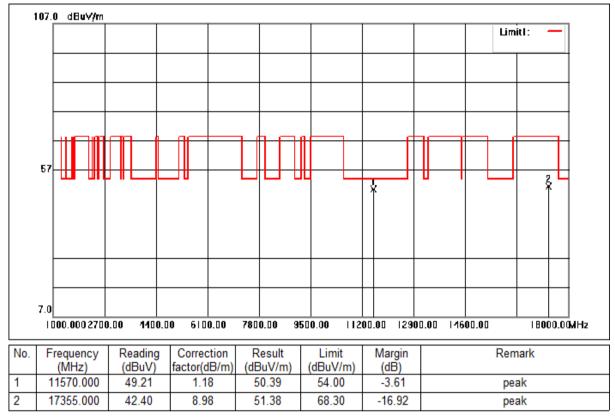
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Mode:e; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:middle



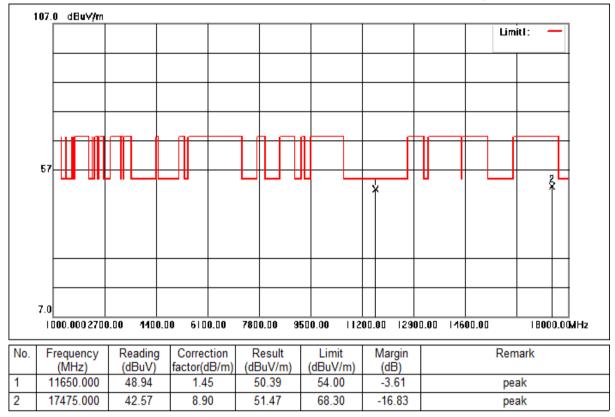
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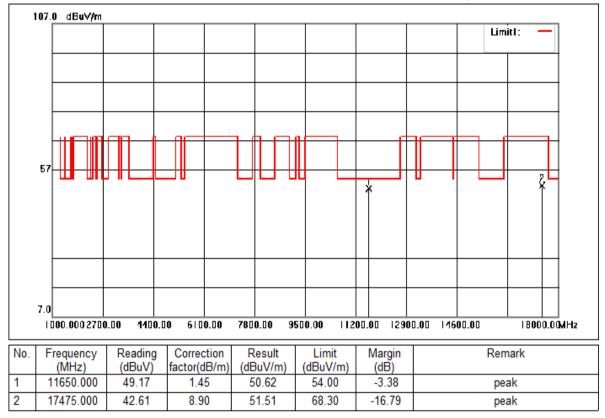
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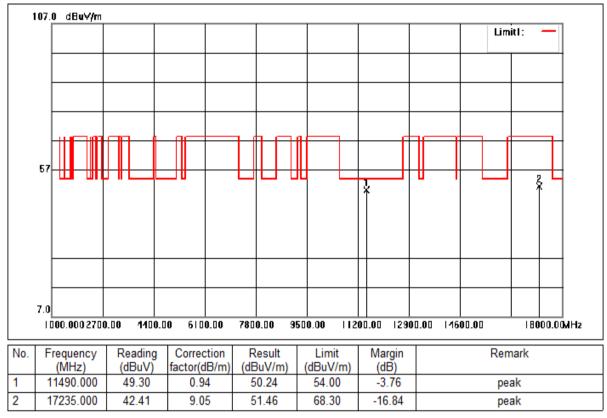


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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low

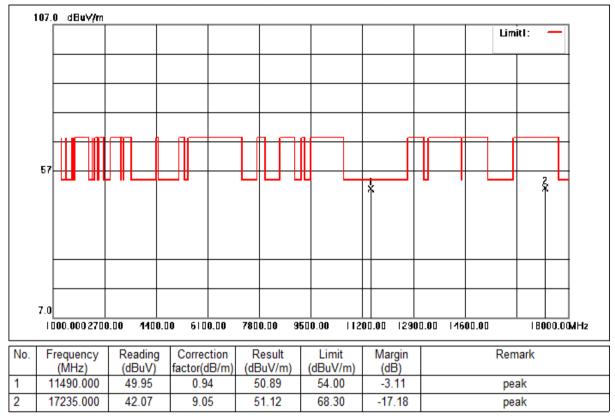


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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



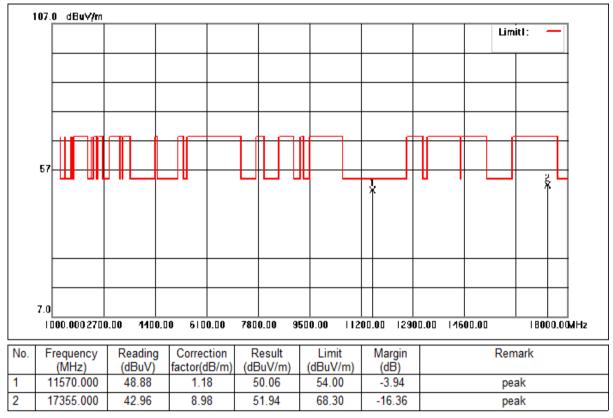
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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle



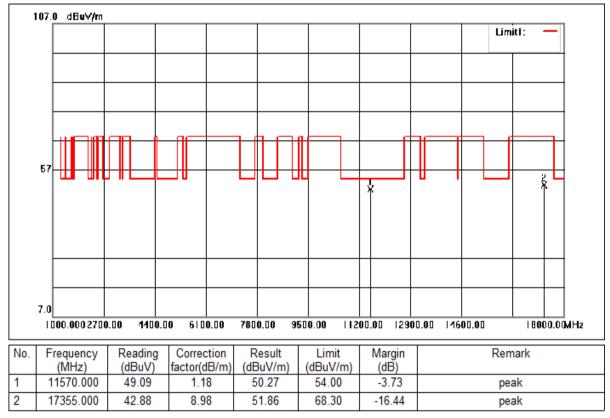
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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle

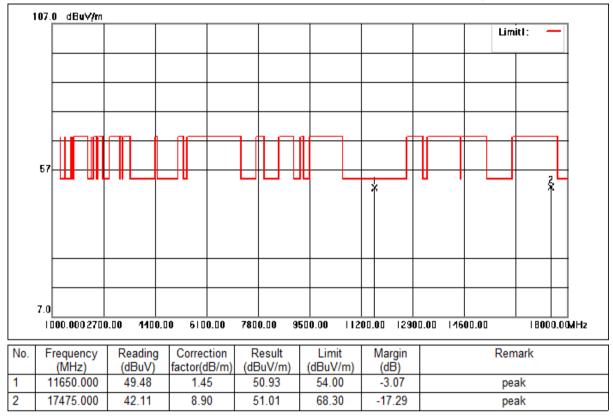


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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



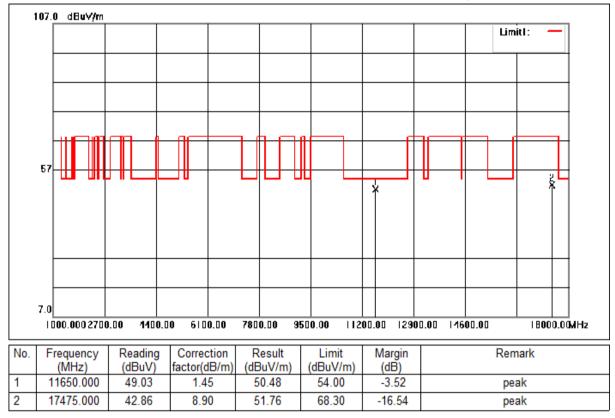
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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High

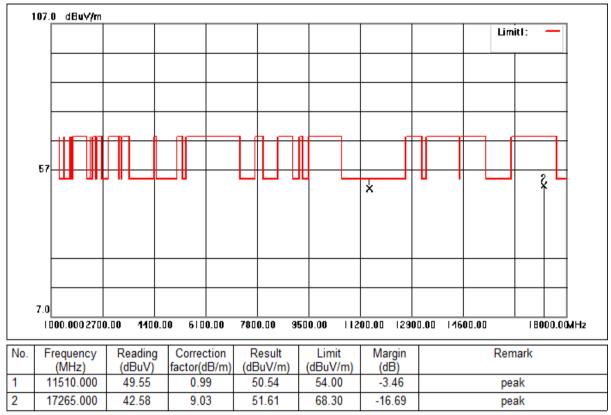


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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low

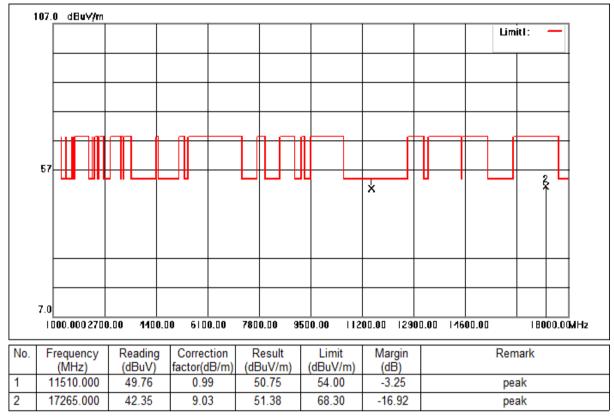


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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low

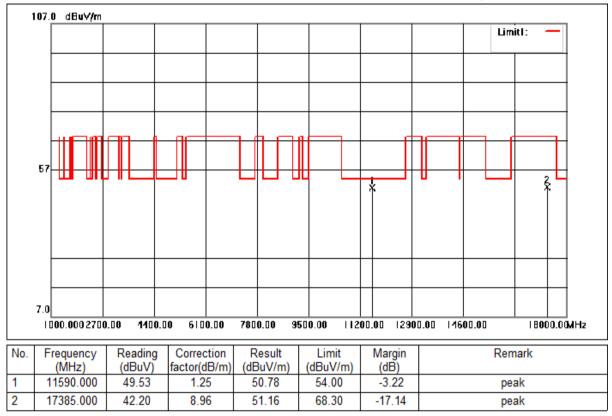


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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High

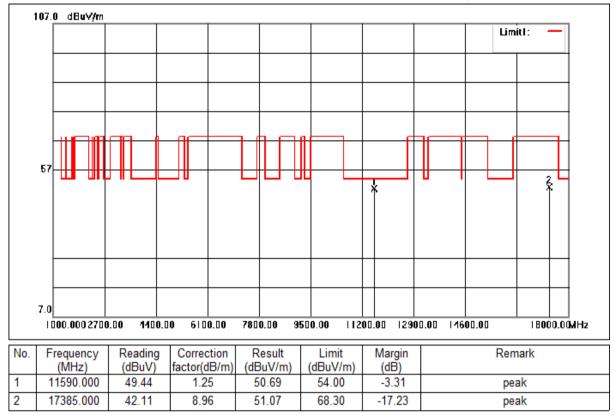


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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High

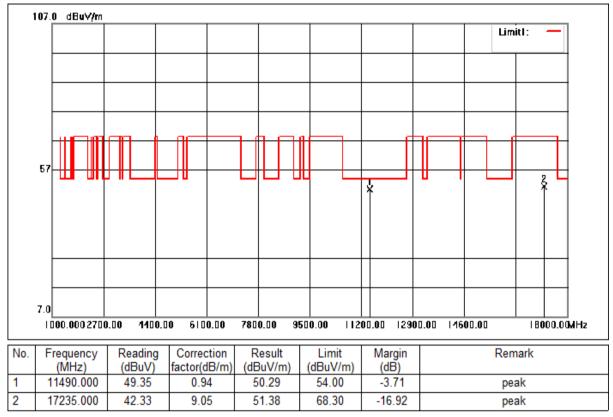


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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low

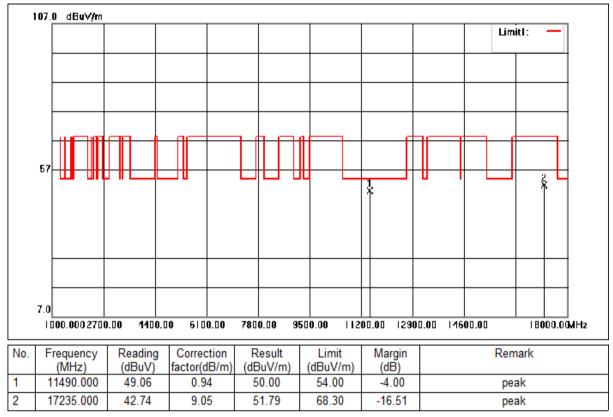


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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low

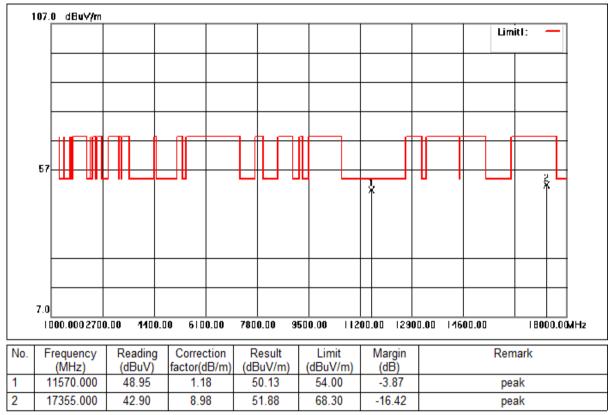


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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:middle

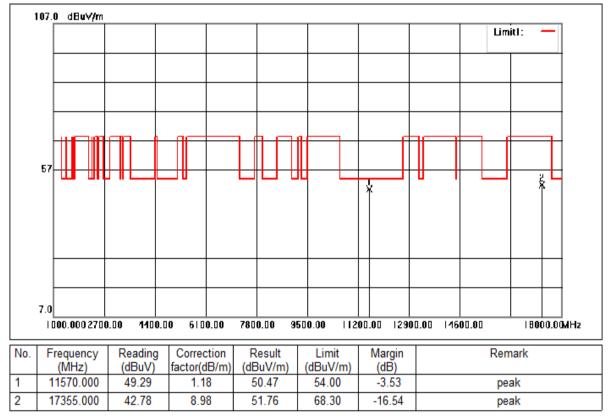


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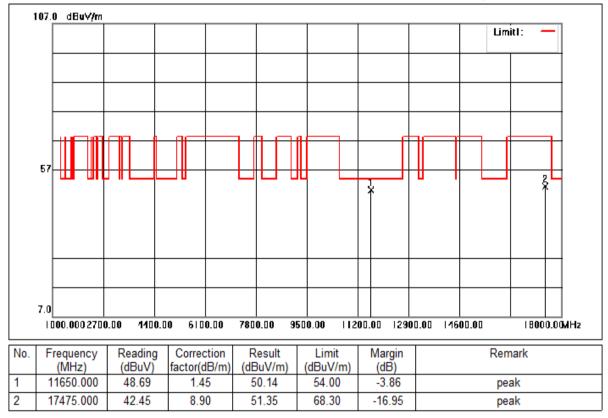
Mode:e; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:middle



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

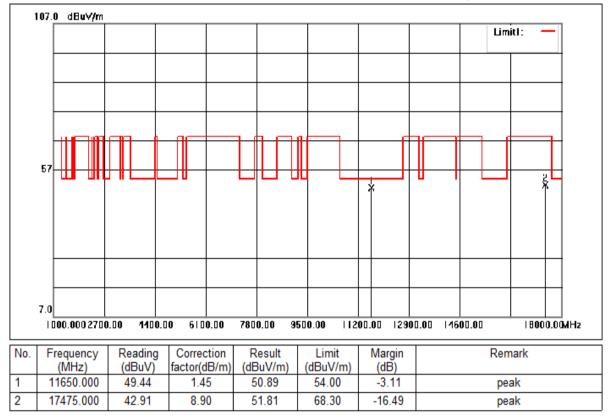


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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High

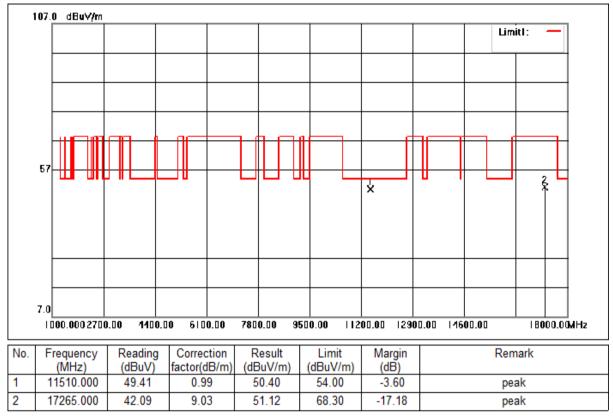


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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



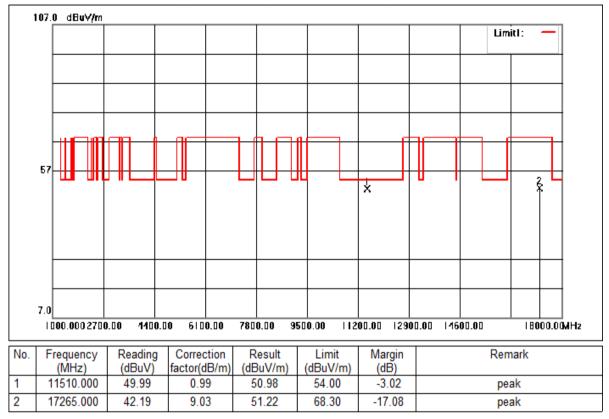
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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low

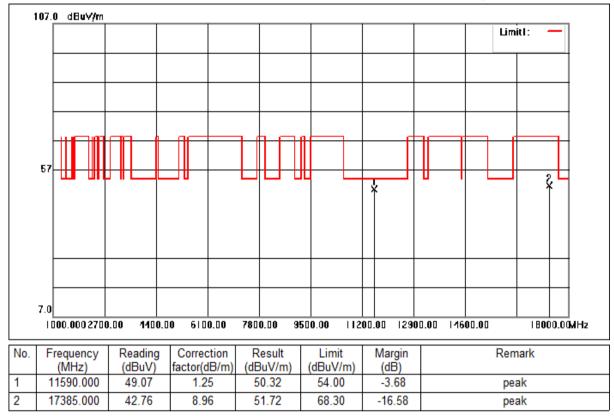


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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High



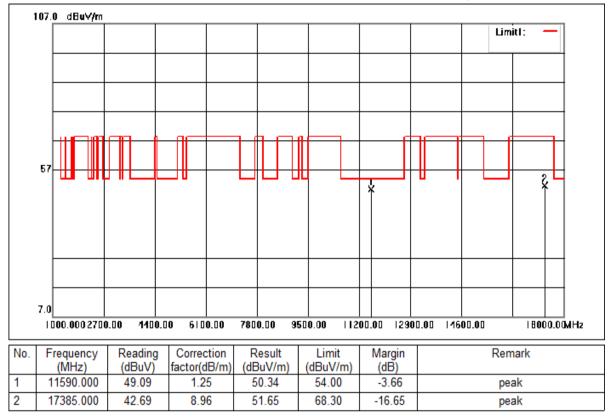
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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High

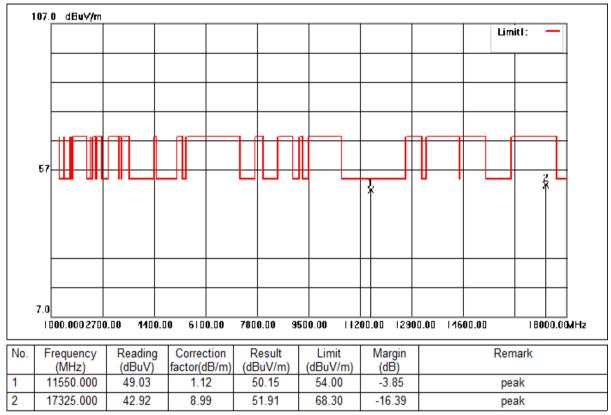


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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:middle

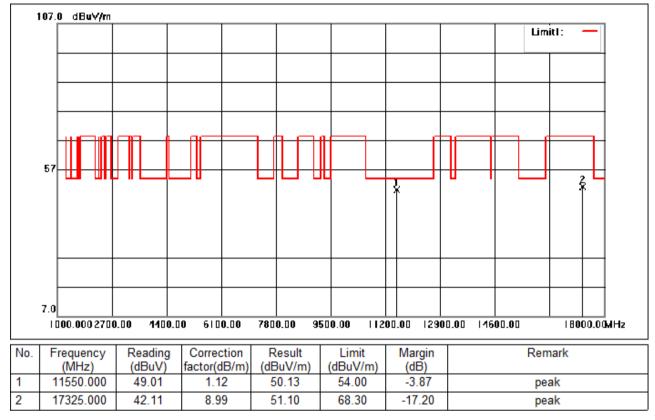


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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:middle



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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
		24 b:T) mod four MC: 802 802 802 c:T) mod four MC: 802 802 802 802 802 802 802 802 802 802	°C K mode (Ba dulation type ad the data S0 is the wo e of IEEE 8 .11ac(VHT2 .11ac(VHT2 .11ac(VHT2 .11ac(VHT2 .11ac(VHT2 .11ac(VHT2 .11ac(VHT2 .11ac(VHT2 .11ac(VHT2 .11ac(VHT2 .11ac(VHT2 .11ac(VHT2 .11ac(VHT2 .11ac(VHT2 .11ac(VHT2 .11ac(VHT2 .11ac(VHT2 .11ac(VHT2) .11ac(VHT2)	nd 1)_Keep es. All data ra rate @ 6Mbp porst case of I 02.11n(HT40 20); data rate 30). Only the nd 2A)_Keep es. All data rate 30). Only the orst case of I 02.11n(HT40 20); data rate 30). Only the nd 2C)_Keep es. All data rate 30). Only the porst case of I 02.11n(HT40 20); data rate 30). Only the porst case of I 02.11n(HT40 20); data rate 30). Only the	the E ates SEEE); da @ M data o the ates SEEE); da data o the ates SEE); da data o the ates SEE (); da data o the ates SEE (); da data SEE (); da data SEE (); da data SEE (); da data SEE (); da data SEE (); da data SEE (); da SEE (); da SEEE	UT in conf for each m the worst of 802.11n(H ta rate @ ACS0 is the ACS0 is the ACS0 is the for each m the worst of 802.11n(H ta rate @ ACS0 is the ACS0 is the the worst of 802.11n(H ta rate @ ACS0 is the ACS0 is the	inuously transmitting mode odulation type have been ase of IEEE 802.11a; data IT20); data rate @ MCS0 if MCS0 is the worst case of e worst case of IEEE ase is recorded in the repor- ntinuously transmitting mo- odulation type have been ase of IEEE 802.11a; data IT20); data rate @ MCS0 if MCS0 is the worst case of e worst case of IEEE ase is recorded in the repor- ntinuously transmitting mo- odulation type have been ase of IEEE 802.11a; data IT20); data rate @ MCS0 if MCS0 is the worst case of e worst case of IEEE ase is recorded in the repor- ntinuously transmitting mo- odulation type have been ase of IEEE 802.11a; data IT20); data rate @ MCS0 if MCS0 is the worst case of e worst case of IEEE e worst case of IEEE ase is recorded in the repor-	e with al tested a a rate @ s the wo i IEEE ort. de with tested a a rate @ s the wo i IEEE ort. de with tested a a rate @ s the wo i IEEE	II ind porst all nd porst all ind porst
		mod four MC case 802 802	dulation type nd the data S0 is the wo e of IEEE 8 .11ac(VHT2 .11ac(VHT2	es. All data ra rate @ 6Mbp orst case of I 02.11n(HT40 20); data rate 40); data rate	ates os is EEE 0); da e @ N e @ N	for each m the worst c 802.11n(H ita rate @ MCS0 is the MCS0 is the	inuously transmitting mod- odulation type have been to ase of IEEE 802.11a; data IT20); data rate @ MCS0 in MCS0 is the worst case of e worst case of IEEE e worst case of IEEE ase is recorded in the repo	tested a a rate @ s the wo IEEE	nd)



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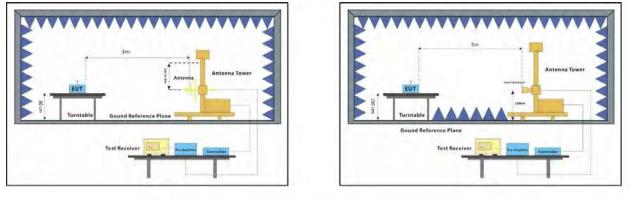
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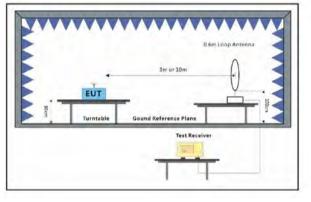


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7.9.2 Test Setup Diagram







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

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

Remark 3: 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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		5150.000	58.56	-7.8		5	0.72	74.0	0	-23	3.28			pea	ak		
		5181.600	97.30	-7.	77	8	9.53	74.0	0	15	.53			pea	ak		

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



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2		5150.000	45.69	-7.8			7.85		1.00		5.15			AV			
3	5	5180.890	87.95	-7.7	7	8	0.18	54	1.00	26	.18			AV	G		

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



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1		5146.100	71.32		.85		3.47	74.		-10.53			pea			
2		5150.000	72.37		.84		4.53	74.		-9.47			pea			
3		5179.470	108.42	-7	.77	1	00.65	74.	00	26.65			pea	k		

Mode:b; Polarization:Vertical; Modulation:a; 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)	F	Remark
1	5146.100	51.34	-7.85	43.49	54.00	-10.51		AVG
2	5150.000	52.98	-7.84	45.14	54.00	- <mark>8.8</mark> 6		AVG
3	5180.890	98.98	-7.77	91.21	54.00	37.21		AVG

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



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0.	۹! F	500.000 157 I	.00 1612 Reading	2.00 171	3.00 ction dB/m) 35	1784 (dBi 53	1.00 11 esult	855.00 1 Limit	926.00 Ma 1) (c	1997.00 argin		3.00		k		IHz

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



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120.0 dBuY/m											
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	1500.000 157	1.00 1612.0	10 1713.00	4784.00 4	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	5141.840	47.74	-7.86	39.88	54.00	-14.12		AVG			
2	5150.000	49.60	-7.84	41.76	54.00	-12.24		AVG			
3	5179.470	90.61	-7.77	82.84	54.00	28.84		AVG			

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



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0.	F	requency (MHz)	Reading (dBuV)	Correct factor(d			esult BuV/m)		nit V/m)		rgin B)			Rem	ark		
		5146.810	71.59	-7.8	5	6	3.74	74	.00	-10	.26			pea	ak		
	1	5150.000	71.83	-7.8	4	6	3.99	74	.00	-10	.01			pea	ak		
		5183.020	109.12	-7.7	6	1(01.36	74	.00	27	.36			pea	ak		

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



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1	120.0 dBuV/m											
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	1000.000 1971	1612.0	10 1713.00	1784.00 1	035.00 192	6.00 4997	.00 5056.00	5210.00 MHz				
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	R	emark				
1	5144.680	53.55	-7.85	45.70	54.00	-8.30		AVG				
2	5150.000	55.53	-7.84	47.69	54.00	-6.31		AVG				
3	5183.020	100.46	-7.76	92.70	54.00	38.70		AVG				

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



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No.	F	requency (MHz)	Reading (dBuV)	Corre			esult BuV/m)	Lin (dBu\		Marg (dB				Rem	ark		
1		5145.320	62.39	-7.			4.54	74.		-19.4				pea			
2		5150.000	61.39	-7.			3.55	74.		-20.4				pea			
3		5207.370	96.60	-7.	70	8	8.90	74.	00	14.9	0			pea	ık		

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



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	4500.000 4573	3.00 4646.0	0 1719.00	1792.00 10	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	47.26	-7.85	39.41	54.00	-14.59		AVG				
2	5150.000	48.29	-7.84	40.45	54.00	-13.55		AVG				
3	5204.450 87.19			79.48	54.00	25.48		AVG				

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



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D.	F	requency (MHz)	Reading (dBuV)	Correction factor(dB/r		Limit (dBuV/m)	Margin (dB)	F	Remark	
		5144.590	68.08	-7.85	60.23	74.00	-13.77		peak	
		5150.000	69.53	-7.84	61.69	74.00	-12.31	peak		
		5189.120	104.30	-7.76	96.54	74.00	22.54		peak	

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



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No.	Frequenc	y Readin	g Corre		Res		Limi		Margin	n		F	Rema	ark		
1	(MHz) 5146.78	(dBuV) 53.20			(dBu) 45.		(dBuV 54.0		(dB) -8.65	;			AV	3		
2	5150.000	55.68	-7.8	34	47.	84	54.0	0	-6.16	;			AV	3		
3	5207.37	95.08	-7.1	70	87.3	38	54.0	0	33.38	}			AV	3		

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



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	-13	300.000 1971	.00 1012.	00 111	J.UU		1.00	015.00	U 182	0.00	1331.	00 30	00.00		9210	00 M	12
No.		requency (MHz)	Reading (dBuV)	Correct factor(d			esult BuV/m)		imit uV/m)		irgin IB)			Rem	ark		
1		5146.100	60.85	-7.8			3.00		4.00		1.00			pea	ık		
2		5150.000	60.69	-7.8	4	5	2.85	74	4.00	-21	1.15			реа	ık		
3		5180.180	100.83	-7.7	7	9	3.06	74	4.00	19).06			pea	ık		

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)		Remark
1	5146.100	47.85	-7.85	40.00	54.00	-14.00		AVG
2	5150.000	48.90	-7.84	41.06	54.00	-12.94		AVG
3	5179.470	90.45	-7.77	82.68	54.00	28.68		AVG

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



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	1:	300.000 197	1.00 1012	171	3.00	1/0	1.00 1	00.00	192	0.UU *	1997.0	00 000	0.00		9210		
No.		requency (MHz)	Reading (dBuV)	factor(c	lB/m)		esult BuV/m)	Lim (dBu\		Marg (dB)			F	Rema	ark		
1		5146.100	70.49	-7.8			2.64	74.(-11.3				pea			
2		5150.000	71.83	-7.8		6	3.99	74.0		-10.0		peak					
3		5183.730	109.36	-7.7	76	1	01.60	74.0	00	27.6	0			pea	k		

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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	R	lemark
1	5145.390	53.84	-7.85	45.99	54.00	-8.01		AVG
2	5150.000	55.56	-7.84	47.72	54.00	-6.28		AVG
3	5183.020	100.22	-7.76	92.46	54.00	38.46		AVG

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



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0.	F	requency (MHz)	Reading (dBuV)	Correct factor(c			esult BuV/m)	Lin (dBu\		Mar (dE				Re	mar	k		
		5144.590	59.85	-7.8	-		2.00	74.0		-22				p	eak			
		5150.000	61.58	-7.8	34	5	3.74	74.	00	-20	.26			p	eak			
		5202.990	97.09	-7.7	2	8	9.37	74.0	00	15.	37			p	eak			

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



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1	l20.0 dBu∀/m							
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	0.0	3.00 <b>1616</b> .0	1719.00	1792.00 1	865.00 493	8.00 <b>5</b> 011.	00 5084.00	5230.00 MHz
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	R	emark
1	5146.050	47.43	-7.85	39.58	54.00	-14.42		AVG
2	5150.000	48.07	-7.84	40.23	54.00	-13.77		AVG
3	5204.450	87.26	-7.71	79.55	54.00	25.55		AVG

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



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1	120.0 dBu∀/m								
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	0.0 1500.000 157	3.00 <b>16</b> 16.0	10 1719.00	1792.00 10	B65.00 493	8.00 <b>5</b> 011	.00 5084.00	5230.00 M	IHz
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark	
1	5145.320	69.21	-7.85	61.36	74.00	-12.64		peak	
2	5150.000	70.83	-7.84	62.99	74.00	-11.01		peak	
3	5194.960	104.87	-7.74	97.13	74.00	23.13		peak	

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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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	F	Remark
1	5145.320	52.58	-7.85	44.73	54.00	-9.27		AVG
2	5150.000	55.62	-7.84	47.78	54.00	-6.22		AVG
3	5197.880	95.02	-7.74	87.28	54.00	33.28		AVG

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



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														3.00	511	0.00					
No.	F	requency (MHz)	Reading (dBuV)		Correc factor(d			esult 3uV/m)	(	Lim dBuV			argin dB)				Re	em	ark		
1		5146.030	60.43		-7.8	_		2.58	$\Box$	74.0		<u> </u>	1.42				F	pea	k		
2		5150.000	58.07		-7.8		5	0.23		74.0			3.77				F	pea	k		
3		5243.050	96.02		-7.5	6	8	8.46		74.0	0	14	4.46				F	pea	k		

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



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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	F	Remark
1	5142.180	47.37	-7.86	39.51	54.00	-14.49		AVG
2	5150.000	47.55	-7.84	39.71	54.00	-14.29		AVG
3	5241.510	84.17	-7.56	76.61	54.00	22.61		AVG

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



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No.		requency	Reading	Correcti	on	Result	Limit		Margin			Rema		
1		(MHz) 5145.260	(dBuV) 68.33	factor(dB -7.85		BuV/m) 60.48	(dBuV/ 74.00	_	(dB) -13.52			peal	<b>K</b>	
2	:	5150.000	68.38	-7.84		60.54	74.00	)	-13.46			peal		
3		5216.100	103.51	-7.66		95.85	74.00	)	21.85			peal	¢	

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



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	1300.000 1011		• ••••••	1000.00	000.00 100	2.00 3000	5110.50	5010.00 miliz
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Re	mark
1	5145.260	54.86	-7.85	47.01	54.00	-6.99		VG
2	5150.000	55.49	-7.84	47.65	54.00	-6.35		VG
3	5222.260	90.30	-7.64	82.66	54.00	28.66	A	VG

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



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	5321.960	96.51	-7.25	89.26	74.00	15.26		eak
	5350.000	59.87	-7.15	52.72	74.00	-21.28	n	eak

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



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	<b>5290.000 53</b> 07	<b>7.00</b> 5324.1	0 5341.00	5358.00 5	375.00 539	2.00 5409.0	0 5126.00	5160.00 MHz
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Re	emark
1	5320.940	86.22	-7.26	78.96	54.00	24.96	A	٨VG
2	5350.000	47.18	-7.15	40.03	54.00	-13.97	A	٨VG
3	5351.710	47.21	-7.14	40.07	54.00	-13.93	A	٨VG

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



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1	ł	5321.450	108.49	_	-7.2		_	01.23	<u> </u>	74.0			7.23			ŗ	peak		
2		5350.000	69.59		-7.1			2.44		74.0			1.56	+			peak		
3	ł	5351.370	73.66		-7.1	4	6	6.52		74.0	)0	-	7.48				peak		

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



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

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No.	Frequency	Reading	Correction	Result	Limit	Margin	F	Remark
1	(MHz) 5321.110	(dBuV) 98.59	factor(dB/m) -7.26	(dBuV/m) 91.33	(dBuV/m) 54.00	(dB) 37.33		AVG
2	5350.000	54.13	-7.15	46.98	54.00	-7.02		AVG
3	5351.030	54.05	-7.14	46.91	54.00	-7.09		AVG

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



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	ł	5350.000	62.07		-7.1		5	4.92		74.0	0	-1	9.08				pea	ak		
	Ę	5350.690	65.78	}	-7.1	4	5	8.64		74.0	0	-1	5.36				pea	ak		

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



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No.	Free (N	quency //Hz)	Readii (dBu\		Correct factor(d			Result BuV/m)	(0	Limi IBuV		Ma (d	argin IB)			Ren	nark	
1		21.280	92.94		-7.2			85.68		54.0			1.68				/G	
2		50.000	46.94		-7.1			39.79	$\perp$	54.0			4.21				/G	
3	53	52.390	47.00	J	-7.1	4	3	39.86		54.0	U	-14	4.14			A۱	/G	

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



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No.	F	requency (MHz)		ading BuV)		Correct factor(d			lesult BuV/m		Lim (dBu\			argin dB)			R	lem	ark		
1	!	5315.160		09.59		-7.2			02.30		74.(			8.30				pea	k		
2		5350.000	6	9.75		-7.1		6	62.60		74.(	)0	-1	1.40				pea	k		
3	1	5350.860	7	3.25		-7.1	4	6	6.11		74.(	)0	-7	7.89				pea	k		

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



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	529	<b>30.000 53</b> 07	'.0 <b>0</b>	5324	.00 53	11.00	535	8.00	537	5.00	539	2.00	5409	.00 54	126.00		5160.0	D MHz
No.	Fre	equency (MHz)	Rea (dB	ding uV)	Corre factor(			Result BuV/m)	(	Lim dBuV		Ma (d	argin IB)			Rem	nark	
1		317.540		0.06	-7.			2.79		54.0			3.79			A۷		
2		350.000		.13	-7.			6.98		54.0			7.02			A۷		
3	- 53	351.370	53	.47	-7.	14	4	6.33		54.0	0	-7	7.67			A٧	/G	

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



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1	120.0 d⊞u∀/m							imit1: — imit2: —
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	0.0	9.00 5308.0	0 5327.00	5316.00 5	365.00 538	4.00 5403.	.00 5422.00	5160.00 MHz
lo.	Frequency	Reading (dBuV)	Correction	Result (dBuV/m)	Limit	Margin (dB)		emark
	(MHz) 5316.170	97.46	factor(dB/m) -7.27	90.19	(dBuV/m) 74.00	16.19	l l	peak
	5350.000	63.47	-7.15	56.32	74.00	-17.68	F	peak
	5352.270	64.79	-7.14	57.65	74.00	-16.35	F	peak

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



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	5270.000 5289	9.00 5308.0	10 5327.00	5346.00 5	<b>365.00 5</b> 38	4.00 5403.	00 5122.00	5160.00 MHz
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	F	Remark
1	5313.320	87.33	-7.29	80.04	54.00	26.04		AVG
2	5350.000	48.04	-7.15	40.89	54.00	-13.11		AVG
3	5350.940	48.55	-7.14	41.41	54.00	-12.59		AVG

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



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	5270.000 5289	9.00 5308.0	10 5327.0	10 5316	.00 53	365.00 538	1.00 5103	.00 5122.00	5160.00 MHz
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/		esult uV/m)	Limit (dBuV/m)	Margin (dB)		Remark
1	5317.690	105.50	-7.27	98	3.23	74.00	24.23		peak
2	5350.000	71.99	-7.15	64	4.84	74.00	-9.16		peak
3	5350.750	71.98	-7.14	64	4.84	74.00	-9.16		peak

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



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	0.0 5270.000528	9.00 5308.0	10 5327.00	5316.00 5	365.00 538	1.00 5103.	00 5122.00	5160.00 MHz
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	R	emark
1	5324.910	95.12	-7.24	87.88	54.00	33.88		AVG
2	5350.000	53.82	-7.15	46.67	54.00	-7.33		AVG
3	5352.270	52.67	-7.14	45.53	54.00	-8.47		AVG

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



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	0.0	7.00 5324.0	0 5311.00	5358.00 5	375.00 539	2.00 5409.0	00 5126.00	5160.00 MHz
lo.	Frequency	Reading	Correction	Result	Limit	Margin		emark
v0.	(MHz)	(dBuV)	factor(dB/m)		(dBuV/m)	(dB)	N.	
	5321.450	103.73	-7.26	96.47	74.00	22.47		peak
?	5350.000	62.56	-7.15	55.41	74.00	-18.59		peak
}	5351.540	62.83	-7.14	55.69	74.00	-18.31	1	peak

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



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No.	F	requency (MHz)	Read (dBu	ling V)	Correct factor(d			lesult BuV/m)	(	Lim dBuV		Ma (0	argin dB)				Rem	ark		
1		5318.560	93.1	19	-7.2	7	6	5.92		54.0	)0	3	1.92				AV			
2		5350.000	47.0		-7.1			9.85		54.0		L	4.15				AV			
3	!	5352.390	47.0	)5	-7.1	4	3	9.91		54.0	)0	-1	4.09				AV	G		

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



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	0.0	90.000 5307	7.00	5324.	00 534	1.00		8.00	527	5.00	<b>5</b> 20	2.00 5	5109.0	10 542	6.00		5160.0	
	JC	.30.000.3307		JJC 1.	00 334	1.00	999	0.00	331	3.00	333	2.00 1	F103.0	JU 3-121	0.00		5100.0	
No.	Fi	requency (MHz)	Rea (dB		Correct factor(d			Result BuV/m)	) (	Lim dBuV		Marg (dB)				Rem	ark	
1	5	5317.880	110	.82	-7.2		1	03.55		74.0	0	29.5	5			pea	ık	
2		5350.000	66.	53	-7.1		ţ	59.38		74.0	0	-14.6	62			реа	ik	
3	5	5352.220	71.	94	-7.1	4	6	64.80		74.0	0	-9.2	0			pea	ik	

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



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		90.000 5307	.0 <b>0</b> (	5324.1	10 531	1.00	535	8.00	5375	5.0 <b>0</b>	539	2.00	5409	9.00	5426	.00		5160	D. OO N	Hz
No.	F	requency (MHz)	Read (dBu	ding JV)	Correct factor(d			lesult BuV/m)	(	Limi dBuV		Ma (e	argin dB)			l	Rem	ark		
1		5317.540	100		-7.2	7		2.86		54.0			8.86				AV			
2		5350.000	51.		-7.1			4.40		54.0		<u> </u>	9.60				AV			
3	1	5351.710	50.	86	-7.1	4	4	3.72		54.0	0	-1	0.28				AV	G		

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



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	0.0	.00 5308.0	10 5327.00	5316.00 5	355.00 538	1.00 5103.0	00 5122.00	5160.00 MHz
lo.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result	Limit (dBuV/m)	Margin (dB)		emark
	5308.000	97.52	-7.31	90.21	74.00	16.21	-	eak
	5350.000	62.21	-7.15	55.06	74.00	-18.94	D	eak

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



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	5270.000 528	9.00 5308.0	10 5327.00	5346.00 5	<b>365.00 5</b> 38	1.00 5103.	00 5122.00	5160.00 MHz
lo.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	R	emark
	5321.300	87.61	-7.26	80.35	54.00	26.35		AVG
2	5350.000	48.49	-7.15	41.34	54.00	-12.66		AVG
}	5351.130	48.58	-7.14	41.44	54.00	-12.56		AVG

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



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	0.0	.00 5308.0	0 5327.00	5316.00 5	365.00 538	 1.00 5103.0	10 5122.00	5160.00 MHz
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Re	emark
1	5314.840	105.89	-7.29	98.60	74.00	24.60		eak
2	5350.000	69.29	-7.15	62.14	74.00	-11.86		eak
3	5351.700	72.83	-7.14	65.69	74.00	-8.31	p	eak

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



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No.	Frequency (MHz)	y Reading (dBuV)	Correction factor(dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	F	Remark
1	5312.370		-7.29	88.33	54.00	34.33		AVG
2	5350.000	) 53.65	-7.15	46.50	54.00	-7.50		AVG
3	5352.270	) 52.90	-7.14	45.76	54.00	-8.24		AVG

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



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0.		quency MHz)	Reading (dBuV)		orrection or(dB/m		sult IV/m)		imit uV/m)	Margir (dB)	1		Remark	
		01.070	95.20		-7.34	<u> </u>	.86	_	4.00	13.86			peak	
$\square$		50.000	63.25	_	-7.15		.10		1.00	-17.90			peak	

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



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	57	230.000 5253	.00 5276.0	10 5299	.00	532	2.00	53	<b>15</b> .0	)0	536	8.00	539	.00	541	1.00		546	60.00 I	MHz
No.	F	requency (MHz)	Reading (dBuV)	Correct factor(dE			esult 3uV/r			Limi BuV/			argin dB)				Ren	nark		
1		5318.780	82.56	-7.27			5.29			54.0			1.29				A۱			
2		5350.000	49.26	-7.15			2.11			54.0			1.89				A۱			
3		5351.670	49.72	-7.14	1	4	2.58		5	54.0	0	-1	1.42				A۱	/G		

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



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0.		requency (MHz)	Reading (dBuV)	factor(d	B/m)	(dB	uV/m)	(dE	BuV/n	ו)	Margi (dB)					
		5315.330 5350.000	102.40 68.02	-7.2			5.12 0.87		74.00 74.00		21.1				eak eak	
		5362.480	70.02	-7.1			2.92		4.00		-13.1				eak eak	

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



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	52	230.0005253	3.00 5276.0	0 5299.00	5322.00 5	315.00 536	8.00 5391.	00 5111.00	5160.00 MHz
No.	F	requency (MHz)	Reading (dBuV)	Correction factor(dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	R	emark
1		5304.980	89.60	-7.32	82.28	54.00	28.28		AVG
2 3		5350.000 5352.360	54.42 54.52	-7.15 -7.14	47.27 47.38	54.00 54.00	-6.73 -6.62		AVG AVG

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



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	0.0	8.00 5386.0	0 5404.00	5122.00 5 ⁴	110.00 515	8.00 5176	.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	5455.480	59.15	-6.96	52.19	74.00	-21.81		peak	
2	5460.000	59.14	-6.95	52.19	74.00	-21.81	peak		
3	5501.560	95.91	-6.96	88.95	74.00	14.95		peak	

Mode:d; Polarization:Horizontal; Modulation:a; 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	5456.740	46.07	-6.96	39.11	54.00	-14.89		AVG	
2	5460.000	46.24	- <mark>6</mark> .95	39.29	54.00	-14.71	AVG		
3	5501.020	86.09	-6.96	79.13	54.00	25.13		AVG	

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



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	5350.000 5368	3.00 5386.0	0 5404.00	5422.00 54	110.00 515	8.00 5476	.00 5191.00	0 5530.00 MHz	
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark	
1	5458.720	69.03	-6.96	62.07	74.00	-11.93		peak	
2	5460.000	69.53	-6.95	62.58	74.00	-11.42	peak		
3	5501.920	110.98	-6.96	104.02	74.00	30.02		peak	

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



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	0.0 535	0.000 5368	.00 5386	.00 540	4.00	542	2.00 5	i110.0	00 54	58.00	547	6.00 5	i191.00	 I	5530.00	 MHz
No.	Fre (	quency MHz)	Reading (dBuV)	Correct factor(c			esult BuV/m)		Limit BuV/m)	N	/argin (dB)			Ren	nark	
1	54	58.180	53.76	-6.9	96	4	6.80	!	54.00		-7.20				/G	
2 3		60.000 01.200	54.22 101.26	-6.9			7.27 4.30		54.00 54.00		-6.73 40.30				/G /G	

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



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	5350.000 5368	8.00 5386.0	10 5404.00	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	5454.940	60.87	-6.96	53.91	74.00	-20.09		peak
2	5460.000	61.70	-6.95	54.75	74.00	-19.25		peak
3	5501.380	103.88	-6.96	96.92	74.00	22.92		peak

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



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	5350.000 5368	3.00 5386.0	0 5101.00	5422.00 5	110.00 515	8.00 5176	.00 5191	.00 5530.00	_] 0 MHz
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark	
1	5458.000	46.56	-6.96	39.60	54.00	-14.40		AVG	
2	5460.000	46.38	- <mark>6.9</mark> 5	39.43	54.00	-14.57		AVG	
3	5500.840	94.04	- <mark>6.9</mark> 6	87.08	54.00	33.08		AVG	

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



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No.	F	requency	Reading		Correc	tion	P	esult		Limi	t	Ma	argin			P	om	ark	
		(MHz)	(dBuV)		factor(d	IB/m)	(dE	BuV/m)	(	dBuV	/m)	(0	dB)						
1		5457.460	67.26		-6.9			0.30		74.0			3.70				pea		
2		5460.000	66.56		-6.9			9.61		74.0		L	4.39				pea		
3		5502.820	111.03		-6.9	6	1	04.07		74.0	0	3	0.07			F	pea	ak	

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



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	5350.000 536	8.00 5386.0	10 5404.00	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	5459.080	51.58	-6.96	44.62	54.00	-9.38		AVG						
2	5460.000 52.23 -6.95		45.28	54.00	-8.72		AVG							
3	5502.640	101.63	-6.96	94.67	54.00	40.67		AVG						

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



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No.	F	requency (MHz)	Reading (dBuV)		Correct factor(d			esult BuV/m)	(	Lim dBu\		Marg (dB)	in		Ren	nark	
1		5457.600	65.03		-6.9			8.07		74.0		-15.9			-	ak	
2		5460.000	66.51		-6.9			9.56		74.0		-14.4				ak	
3		5495.000	99.37		-6.9	6	9	2.41		74.0	00	18.4	1		ре	ak	

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



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	5.	350.000 5370	0.00 5390	0.00	0 541	0.00	543	0.00	545	i0.00		5470	0.00	5490	0.00 55	510.00	)	5550.001	MHZ
No.	F	requency (MHz)	Reading (dBuV)	J	Correct factor(d			esult 3uV/m	)	Lir (dBu		n)	Ma (d	argin IB)			Ren	nark	
1		5457.800	47.83		-6.9			0.87		54.				3.13				/G	
2		5460.000	48.12		-6.9			1.17		54.				2.83				/G	
3		5508.200	88.77		-6.9	6	8	1.81		54.	.00		27	7.81			A۱	/G	

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



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No.	F	requency (MHz)	Reading (dBuV)	Correct factor(c			esult BuV/m)	6	Lin	nit V/m)	M	argin dB)			Ren	nark	
1		5458.000	70.70	-6.9			3.74	+	74.			0.26			pe	ak	
2		5460.000	70.16	-6.9	)5	6	3.21		74.	00	-1	0.79	peak				
3		5507.200	107.30	-6.9	)6	1	00.34		74.	00	2	6.34			pea	ak	

Mode:d; Polarization:Vertical; Modulation:n; 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)		Rema	rk				
1	5458.000	51.82	-6.96	44.86	54.00	-9.14	AVG		2				
2	5460.000	53.39	- <mark>6</mark> .95	46.44	54.00	-7.56	AVG		à				
3	5507.600	96.90	-6.96	89.94	54.00	35.94		AVG	5				

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



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No.	F	requency (MHz)	Reading (dBuV)	Correct factor(c			esult BuV/m)	(Limi dBuV/			rgin B)			Re	emark		
1		5457.820	62.83	-6.9			5.87		74.0)	<u> </u>	3.13			p	eak		
2		5460.000	61.45	-6.9)5	5	4.50		74.0)	-19	9.50	peak					
3		5498.320	103.82	-6.9)6	9	6.86		74.0)	22	.86			p	eak		

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



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		350.000 5358	3.00 5380	6.0	0 540	1.00	542	2.00 (511	0.00	545	8.00	547	6.00	549	1.00		5530.00	MHz
No.	F	requency (MHz)	Reading (dBuV))	Correct factor(d			esult BuV/m)	(Lim dBuV		Ma (argin dB)			F	Rem	nark	
1	1	5458.180	47.27		-6.9			0.31		54.0			3.69		AVG				
2	ļ	5460.000	47.65		-6.9	15	4	0.70		54.0	0	-1	3.30	AVG					
3	!	5500.840	94.26		-6.9	6	8	7.30		54.0	0	3	3.30				AV	'G	

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



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	0.0 5	350.000 5358	.00 5386.0	0 5104.00	5422.00 5	110.00 515	8.00 5476	.00 5191.00) 5530.00 MHz
lo.		requency	Reading	Correction	Result	Limit	Margin		Remark
		(MHz) 5457.280	(dBuV) 69.39	factor(dB/m) -6.96	(dBuV/m) 62.43	(dBuV/m) 74.00	(dB) -11.57		nak
								peak	
	<u> </u>	5460.000	68.93	-6.95	61.98	74.00	-12.02	peak	
		5500.840	112.09	-6.96	105.13	74.00	31.13		peak

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)		Rema	k				
1	5457.460	53.83	-6.96	46.87	54.00	-7.13		AVG					
2	5460.000	53.55	- <mark>6.9</mark> 5	46.60	54.00	-7.40		AVG					
3	5497.780	101.89	-6.96	94.93	54.00	40.93		AVG					

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



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1		5456.800	65.95		-6.9	6	5	8.99		74	.0	0	-15	5.01			pe	ak	
2		5460.000	62.46		-6.9			5.51		74				8.49			pe		
3		5514.200	99.01		-6.9	6	9	2.05		74	.0	0	18	.05			pe	ak	

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



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1		5458.200	48.59		-6.9	6	4	1.63		54.	00	-1	2.37				AVG	6	
2		5460.000	48.67		-6.9	5	4	1.72		54.	00	-1	2.28				AVG	3	
3	1	5503.200	89.05		-6.9	6	8	2.09		54.	00	2	8.09				AVG	3	

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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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	l	Remark						
1	5459.200	53.66	-6.96	46.70	54.00	-7.30		AVG						
2	5460.000	54.84	-6.95	47.89	54.00	-6.11		AVG						
3	5502.800	97.15	-6.96	90.19	54.00	36.19		AVG						

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



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No.	Fre (equency (MHz)	Reading (dBuV)		Correc factor(d			esult uV/m)	Lim (dBu\		Margir (dB)	n		Re	mark	
1	- 54	447.680	61.55		-6.9			4.59		74.0)0	-19.4	1		р	eak	
2	54	460.000	59.05		-6.9	5	5	2.10		74.0)0	-21.9	0		р	eak	
3	- 55	541.040	95.17		-6.9	6	8	8.21		74.0)0	14.21			р	eak	

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



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	5350.000 5374	1.00 0000.0	10 5422.00	0110.UU 01	170.00 513	4.00 5518	.00 3512.00	5590.00 MHz					
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark					
1	5455.840	47.62	- <mark>6.96</mark>	40.66	54.00	-13.34		AVG					
2	5460.000	47.48	- <mark>6.9</mark> 5	40.53	54.00	-13.47		AVG					
3	5540.560	82.54	-6.96	75.58	54.00	21.58		AVG					

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



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1	!	5445.760	69.72		-6.9	6	6	2.76		74.(00	-1	1.24				peal	k	
2		5460.000	69.83		-6.9	5	6	2.88		74.0)0	-1	1.12				peal	k	
3	!	5535.520	103.04		-6.9	7	9	6.07		74.(00	2	2.07				peal	k	

Mode:d; Polarization:Vertical; Modulation:c; bandwidth:80MHz; 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	5457.280	55.07	-6.96	48.11	54.00	-5.89		AVG
2	5460.000	54.77	-6.95	47.82	54.00	-6.18		AVG
3	5540.080	89.78	-6.96	82.82	54.00	28.82		AVG

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



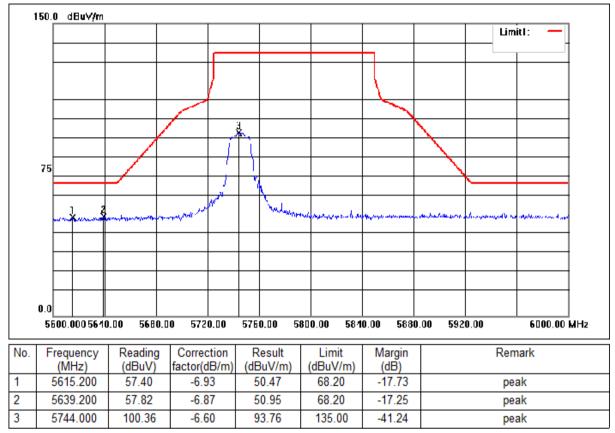
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Mode:e; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



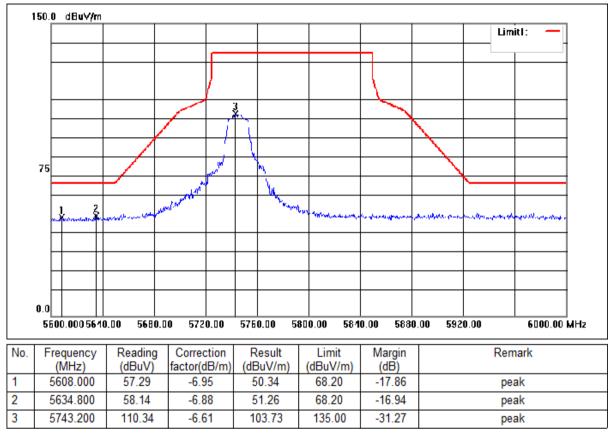
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	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)			
1	5824.000	102.60	-6.32	96.28	135.00	-38.72		peak	
2	5958.400	58.67	-5.59	53.08	68.20	-15.12		peak	
3	5992.400	57.96	-5.41	52.55	68.20	-15.65		peak	

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	5824.800	108.09	-6.33	101.76	135.00	-33.24		peak	
2	5956.800	58.26	-5.60	52.66	68.20	-15.54		peak	
3	5970.800	57.72	- <mark>5</mark> .52	52.20	68.20	-16.00		peak	

Mode:e; Polarization:Vertical; 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)	(dBuV/m)	(dB)		
1	5603.200	57.14	-6.97	50.17	68.20	-18.03	ļ	peak
2	5646.800	57.76	- <mark>6.8</mark> 5	50.91	68.20	-17.29		peak
3	5745.600	102.78	-6.60	96.18	135.00	-38.82		peak

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



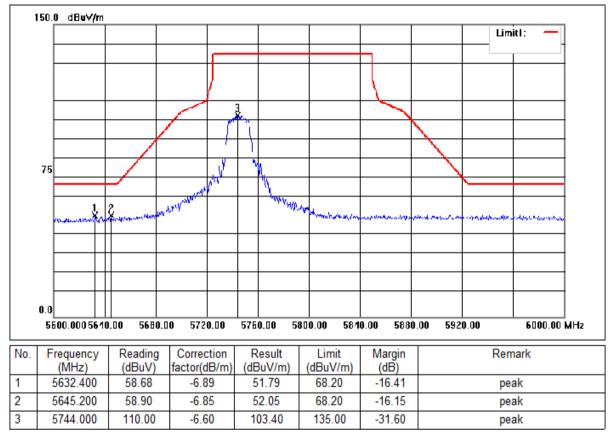
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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



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No.	Frequency	Reading	Correction	Result	Limit	Margin		Remark	
	(MHz)	(dBuV)	factor(dB/m)		(dBuV/m)	(dB)			
1	5824.800	104.06	-6.33	97.73	135.00	-37.27		peak	
2	5928.800	58.01	-5.75	52.26	68.20	-15.94		peak	
3	5971.200	58.09	- <mark>5.52</mark>	52.57	68.20	-15.63		peak	

Mode:e; Polarization:Horizontal; Modulation:n; 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	5827.200	108.32	-6.31	102.01	135.00	-32.99		peak	
2	5933.200	58.51	-5.73	52.78	68.20	-15.42		peak	
3	5970.000	57.40	- <mark>5.</mark> 52	51.88	68.20	-16.32		peak	

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



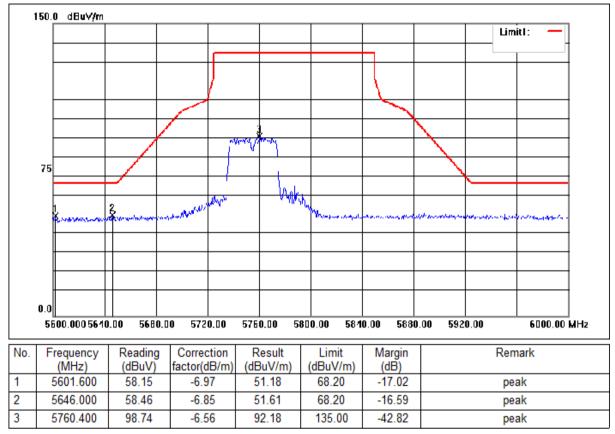
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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



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	d, Songjiang District, Shangh	ai,China	201612
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	5600.000 561	0.00 5680.0	10 5720.00	5760.00 5	800.00 584	0.00 5880	.00 5920.00	6000.00 MHz
D.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark
	5642.400	59.24	-6.87	52.37	68.20	-15.83	peak	
	5646.000	60.73	-6.85	53.88	68.20	-14.32		peak
	5752.800	105.00	-6.58	98.42	135.00	-36.58		peak

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



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1		800.800	98.80	-6.			2.35		135.			42.65				p	bea	k	
2	5	939.200	57.79	-5.	70	5	2.09		68.2	0	-1	16.11				р	bea	k	
3	5	951.600	57.50	-5.	63	5	1.87		68.2	0	-1	16.33				p	bea	k	

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



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No.	Frequency	Reading	Correction	Result	Limit	Margin		Remark	
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)			
1	5797.600	105.36	-6.46	98.90	135.00	-36.10	peak		
2	5932.800	58.52	-5.73	52.79	68.20	-15.41		peak	
3	5985.600	58.05	-5.44	52.61	68.20	-15.59		peak	

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



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D.	Frequency	Reading	Correction	Result	Limit	Margin		Remark
D.	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		
0.		Reading (dBuV) 57.32 57.88						Remark peak peak

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

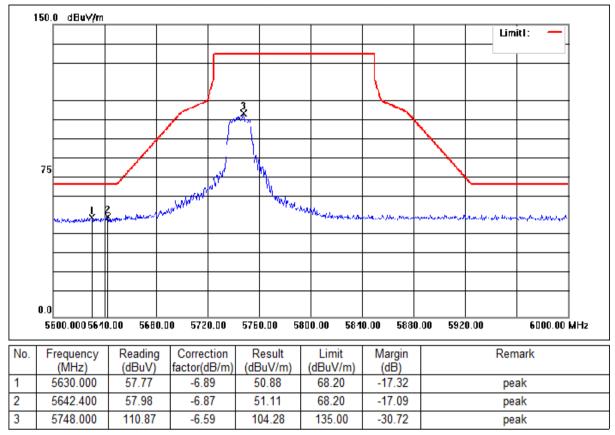


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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low



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	5500.000 5640	0.00 5680.0	0 5720.00	5760.00 50	800.00 584	10.00 5880	.00 5920.00	6000.00	MHz
No.	Frequency	Reading	Correction	Result	Limit	Margin		Remark	
	(MHz)	(dBuV)	factor(dB/m)		(dBuV/m)	(dB)			
1	5825.600	103.97	-6.32	97.65	135.00	-37.35		peak	
2	5940.800	58.73	-5.69	53.04	68.20	-15.16		peak	
3	5979.200	56.95	-5.47	51.48	68.20	-16.72		peak	

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



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	5800.000.5610		JU 3720.00	5180.00 50	000.00 001	0.00 3000	00 3320.00	8000.001	MITZ
0.	Frequency	Reading	Correction	Result	Limit	Margin		Remark	
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)			
	5824.000	108.61	-6.32	102.29	135.00	-32.71		peak	
	5927.600	57.84	-5.76	52.08	68.20	-16.12		peak	
	5981.200	58.06	-5.47	52.59	68.20	-15.61	1	peak	

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

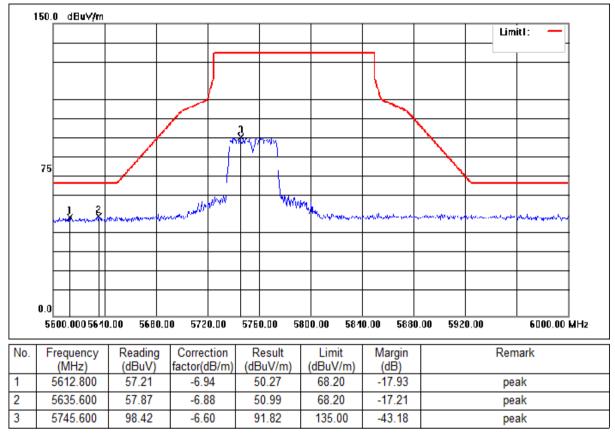


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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	F	Remark
1	5632.400	58.08	-6.89	51.19	68.20	-17.01		peak
2	5645.600	59.20	-6.85	52.35	68.20	-15.85		peak
3	5740.000	105.73	-6.61	99. 1 2	135.00	-35.88		peak

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



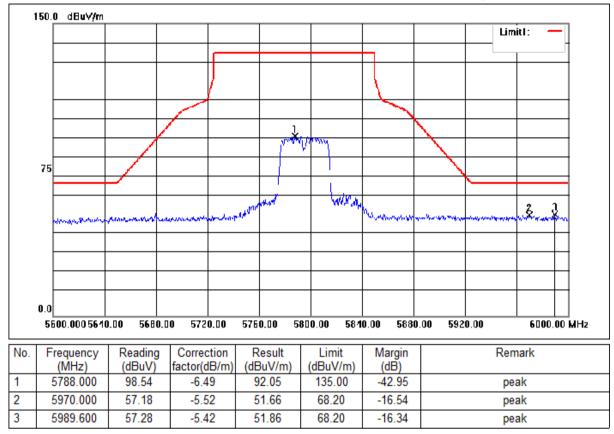
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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High



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No.	Frequency	Reading	Correction	Result	Limit	Margin		Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		
1	5800.000	105.80	-6.46	99.34	135.00	-35.66		peak
2	5928.400	57.68	-5.76	51.92	68.20	-16.28		peak
3	5969.600	57.33	- <mark>5.52</mark>	51.81	68.20	-16.39		peak

Mode:e; Polarization:Vertical; Modulation:c; 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)		Rem	ark	
1	5638.800	58.11	-6.87	51.24	68.20	-16.96		pea	ik	
2	5644.800	58.90	-6.85	52.05	68.20	-16.15		pea		
3	5780.400	96.60	-6.51	90.09	135.00	-44.91		pea		
4	5927.600	59.06	-5.76	53.30	68.20	-14.90		 pea	ık	
5	5978.400	58.36	-5.48	52.88	68.20	-15.32		pea		

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



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1	75		n and a start of the start of t					Limit I :		
	0.0					0.00 5880	0.00 5920.00	6000.00 MHz		
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark		
1	5610.400	62.59	-6.94	55.65	68.20	-12.55		peak		
2	5642.000	63.15	-6.87	56.28	68.20	-11.92		peak		
3	5762.000	102.42	-6.56	95.86	135.00	-39.14		peak		
4	5950.000	61.93	-5.64	56.29	68.20	-11.91		peak		
5	5967.200	61.15	-5.54	55.61	68.20	-12.59		peak		

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



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

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

7.10.1 E.U.T. Operation

Operating Environment:

24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mb	bar
b:TX mode (Band 1)_Keep the EUT in 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(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.	
c:TX mode (Band 2A)_Keep the EUT in 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(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(VHT80). Only the data of worst case is recorded in the report.	
d:TX mode (Band 2C)_Keep the EUT in 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(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.	
e:TX mode (Band 3)_Keep the EUT in 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(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.	
	b:TX mode (Band 1)_Keep the EUT in 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 802.11ac(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(VHT80). Only the data of worst case is recorded in the report. c:TX mode (Band 2A)_Keep the EUT in 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 802.11ac(VHT20); 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(VHT80). Only the data of worst case is recorded in the report. d:TX mode (Band 2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ MCS0 is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11a; 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

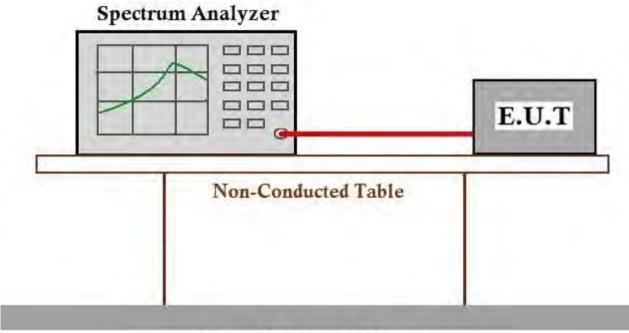


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7.10.2 Test Setup Diagram



Ground Reference Plane

7.10.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHCR211100084502



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8 **Test Setup Photographs**

Refer to the < Test Setup photos >.

EUT Constructional Details 9

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

- End of the Report -



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