

Report No.: SHEM200900737903 Page: 1 of 224

## TEST REPORT

Application No.:	SHEM2009007379CR
FCC ID:	2ARYN-LUCY
Applicant:	Shenzhen Trifo Technology Co.,Ltd.
Address of Applicant:	Room 201, Building A, No.1, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, China
Manufacturer:	Shenzhen Trifo Technology Co.,Ltd.
Address of Manufacturer:	Room 201, Building A, No.1, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, China
Factory:	Flextronics computing (Suzhou) Co., Ltd
Address of Factory:	No.1 Guanpu Road, Guoxiang Street, WuZhong District, Suzhou, Jiangsu, China
Equipment Under Test (EU	т):
EUT Name:	Al Home Robot
Model No.:	LUC-S,LUC-P ¤
¤	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade mark:	TRIFO
Standard(s) :	47 CFR Part 15, Subpart E 15.407
Date of Receipt:	2020-09-02
Date of Test:	2020-09-09 to 2020-09-29
Date of Issue:	2021-04-28
Test Result:	Pass*

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

parlan share

Parlam Zhan E&E Section Manager

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



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Revision Record				
Version	Description	Date	Remark	
00	Original	2021-04-28	1	

Authorized for issue by:		
	Bul wu	
	Bill Wu / Project Engineer	
	parlam zhan	
	Parlam Zhan / Reviewer	



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## 2 Test Summary

Radio Spectrum Technical Requirement							
Item Standard Method Requirement Res							
Antenna Requirement	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart C 15.203	Pass			
Transmitter Power Control	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II E	47 CFR Part 15, Subpart C 15.407 (h)(1)	Pass			
Transmission in the Absence of Data	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart C 15.407 (c)	Pass			

#### N/A: Not applicable

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

N/A: Not applicable

#### **Declaration of EUT Family Grouping:**

Note: There are series models mentioned in this report, and they are the similar in electrical and electronic characters. Only the model LUC-S was tested since their differences were the model number and appearance.



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## 4 General Information

## 4.1 Details of E.U.T.

Power supply:	DC 14.4V 5200mAh rechargeable battery Charging adapter:
	Model: S040QU2000200
	Input:100-240V~50/60Hz
	Output:20V 2000mA
Test voltage:	DC 14.4V

Band	Mode	Frequency Range(MHz)	Number of channels		
UNII Band I	802.11a/n(HT20)/ac(HT20)	5180-5240	4		
	802.11n(HT40)/ac(HT40)	5190-5230	2		
	802.11ac(HT80)	5210	1		
UNII Band II-A	802.11a/n(HT20)/ac(HT20)	5260-5320	4		
	802.11n(HT40)/ac(HT40)	5270-5310	2		
	802.11ac(HT80)	5290	1		
UNII Band II-C	802.11a/n(HT20)/ac(HT20)	5500-5700	11		
	802.11n(HT40)/ac(HT40)	5510-5670	5		
	802.11ac(HT80)	5530~5610	2		
UNII Band III	802.11a/n(HT20)/ac(HT20)	5745-5825	5		
	802.11n(HT40)/ac(HT40)	5755-5795	2		
	802.11ac(HT80)	5775	1		
802.11a: OFDM	(64QAM, 16QAM, QPSK, BPSK	)			
802.11n: OFDM	(BPSK, QPSK, 16QAM, 64QAM	)			
802.11ac: OFDM	I (BPSK, QPSK, 16QAM, 64QAM	л, 256QAM)			
802.11a:6/9/12/1	8/24/36/48/54Mbps				
802.11n:MCS0-N	ICS7				
802.11ac:VHT M	CS0-MCS7				
802.11a/n(HT20)	)/ac(HT20): 20MHz				
802.11n(HT40)/a	ac(HT40): 40MHz				
802.11ac(HT80)	: 80MHz				
Antenna 1: 3dBi					
Antenna 2: 3dBi					
Directional gain: 6dBi					
(Provided by ma	nufacturer)				
Antenna 1: PIFA	Antenna				
Antenna 2: PIFA Antenna					
	UNII Band I UNII Band II-A UNII Band II-A UNII Band II-C UNII Band III 802.11a: OFDM 802.11a: OFDM 80.11a: OFD	UNII Band I UNII Band I UNII Band II B02.11a/n(HT20)/ac(HT20) 802.11ac(HT80) UNII Band II-A 802.11a/n(HT20)/ac(HT20) 802.11ac(HT80) UNII Band II-C 802.11ac(HT80) UNII Band III 802.11ac(HT80) UNII Band III 802.11ac(HT80) UNII Band III 802.11ac(HT80) UNII Band III 802.11ac(HT80) 802.11ac(HT80	Image         Range         Range           UNII Band I         802.11a/n(HT20)/ac(HT20)         5180-5240           802.11n(HT40)/ac(HT40)         5190-5230           802.11ac(HT80)         5210           UNII Band II-A         802.11a/n(HT20)/ac(HT20)         5260-5320           802.11a/n(HT20)/ac(HT40)         5270-5310         802.11a/n(HT20)/ac(HT40)           802.11a/n(HT20)/ac(HT40)         5500-5700         802.11a/n(HT20)/ac(HT20)           UNII Band II-C         802.11a/n(HT20)/ac(HT40)         5510-5670           802.11a/n(HT20)/ac(HT40)         5510-5670         802.11a/n(HT20)/ac(HT40)           802.11a/n(HT20)/ac(HT40)         5755-5795         802.11a/n(HT20)/ac(HT40)         5755-5795           802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK)         802.11ac         5775           802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM)         5802.11a/n(H720)/ac(HT40)         5760           802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)         802.11a/n(H720)/ac(H720): 20MHZ         502.11a/n(H720)/ac(H720): 20MHZ           802.11a/n(HT20)/ac(HT40): 40MHZ         802.11a/n(H740)/ac(H740): 40MHZ         802.11a/n(H740)/ac(H740): 40MHZ           802.11a/n(H740)/ac(H740): 40MHZ         802.11ac(H780): 80MHZ         500           Antenna 1: 3dBi         Antenna 2: 3dBi         500           Directional gain: 6dBi		



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TPC Function:	Not support
DFS Function:	Slaver without radar detection

## 4.2 Description of Support Units

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



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> 20) 2

4.3 FOWEI leve	a settini	y using i	n test.			
Test Mode	802	2.11a	802.11n	(HT20)	802.11ac	(VHT2
Channel	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant
36	55	55	53	53	52	52
40	55	55	53	53	52	52
48	55	55	53	53	52	52
52	55	55	53	53	52	52
60	55	55	53	53	52	52
64	55	55	53	53	52	52
100	55	55	53	53	52	52
116	48	48	46	46	45	45
120	48	48	46	46	45	45
140	48	48	46	46	45	45
149	48	48	46	46	45	45
157	48	48	46	46	45	45
165	48	48	46	46	45	45
Test Mode	802.11	n(HT40)	802.11ac	(VHT40)		
Channel	Ant 1	Ant 2	Ant 1	Ant 2		
38	55	55	53	53		
46	55	55	53	53		
54	55	55	53	53		
62	55	55	53	53		
102	48	48	47	47		
110	48	48	47	47		
118	48	48	47	47		
134	48	48	47	47		
151	48	48	47	47		
159	48	48	47	47		
Test Mode	802.ac	(VHT80)				
Channel	Ant1	Ant 2				
42	53	53				
58	53	53				
106	50	50				
122	50	50				
155	50	50				

## 4.3 Power level setting using in test:



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No.	ltem	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 <sup>-8</sup>
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
8	RF Radiated Power	5.1dB (Below 1GHz)
0	RF Radiated Power	4.9dB (Above 1GHz)
		4.2dB (Below 30MHz)
9	Radiated Spurious Emission Test	4.5dB (30MHz-1GHz)
9		5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
10	Temperature Test	1°C
11	Humidity Test	3%
12	Supply Voltages	1.5%
13	Time	3%

## 4.4 Measurement Uncertainty

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: SGS-CSTC Standards Technical Services(Shanghai) Co., Ltd. 588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China Tel: +86 21 6191 5666 Fax: +86 21 6191 5678 No tests were sub-contracted.

## 4.6 Test Facility

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

#### • CNAS (No. CNAS L0599)

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2017 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. 6332.01)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

#### • FCC (Designation Number: CN1301)

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

#### • ISED (CAB Identifier: CN0020)

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## 4.7 Deviation from Standards

None

## 4.8 Abnormalities from Standard Conditions

None



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#### **Equipment List** 5

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RF Conducted Test					
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2019-12-20	2020-12-19
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2020-08-13	2021-08-12
Signal Generator	R&S	SMR20	SHEM006-1	2020-08-13	2021-08-12
Signal Generator	Agilent	N5182A	SHEM182-1	2020-08-13	2021-08-12
Communication Tester	R&S	CMW270	SHEM183-1	2020-08-13	2021-08-12
Switcher	Tonscend	JS0806	SHEM184-1	2020-08-13	2021-08-12
Power Sensor	Keysight	U2021XA * 4	SHEM184-1	2020-08-13	2021-08-12
Splitter	Anritsu	MA1612A	SHEM185-1	/	/
Coupler	e-meca	803-S-1	SHEM186-1	/	/
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2018-09-25	2021-09-24
AC Power Stabilizer	APC	KDF-31020T-V0-F0	SHEM216-1	2019-12-20	2020-12-19
DC Power Supply	MCH	MCH-303A	SHEM210-1	2019-12-20	2020-12-19
Conducted test Cable	/	RF01~RF04	/	2019-12-20	2020-12-19
Test software	Tonscend	JS Tonscend BT/WIFI System	Version: 2.6	1	/
RF Radiated Test					
EMI test Receiver	R&S	ESU40	SHEM051-1	2019-12-20	2020-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2019-12-20	2020-12-19
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2019-12-20	2020-12-19
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2019-10-14	2021-10-13
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM202-1	2019-04-30	2021-04-29
Horn Antenna (1-18GHz)	Schwarzbeck	HF906	SHEM009-1	2018-10-24	2021-10-23
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2019-10-14	2021-10-13
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2018-10-31	2021-10-30
Pre-amplifier (9KHz-2GHz)	CLAVIIO	BDLNA-0001	SHEM164-1	2020-08-13	2021-08-12
Pre-amplifier (1-18GHz)	CLAVIIO	BDLNA-0118	SHEM050-2	2020-08-13	2021-08-12
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2019-12-20	2020-12-19
Signal Generator	R&S	SMR40	SHEM058-1	2020-08-13	2021-08-12
Band Filter	LORCH	9BRX-875/X150	SHEM156-1	/	/
Band Filter	LORCH	13BRX-1950/X500	SHEM083-2	/	/
Band Filter	LORCH	5BRX-2400/X200	SHEM155-1	/	/
Band Filter	LORCH	5BRX-5500/X1000	SHEM157-2	/	/
High pass Filter	Wainwright	WHK3.0/18G	SHEM157-1	1	/
High pass Filter	Wainwright	WHKS1700	SHEM157-3	/	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2020-05-25	2023-05-24
RE test Cable	/	RE01, RE02, RE06	/	2019-12-20	2020-12-19
Test software	ESE	E3	Version: 6.111221a	1	/



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#### **Radio Spectrum Technical Requirement** 6

## 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

#### 6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### EUT Antenna:

The antenna 1 and antenna 2 is PIFA antenna and no consideration of replacement. The best case gain of the antenna 1 and antenna 2 is 3dBi,The directional gain is 6dBi.

Antenna location: Refer to Appendix (Internal Photos)



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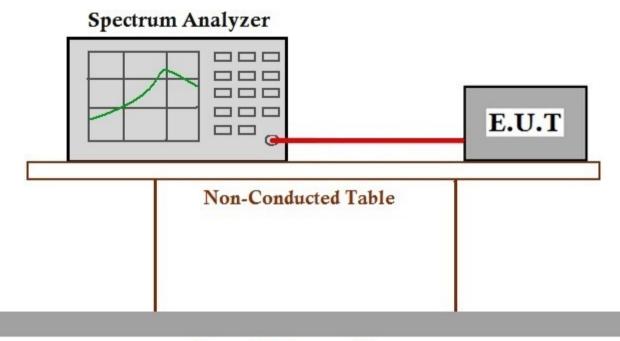
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## 6.2 Transmitter Power Control

## 6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.407 (h)(1)

## 6.2.2 Test Setup Diagram



## **Ground Reference Plane**

6.2.3 Conclusion



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## 6.3 Transmission in the Absence of Data

### 6.3.1 Test Requirement:

47 CFR Part 15, Subpart C 15.407 (c)

#### 6.3.2 Conclusion

Standard Requirement:

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

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

EUT Details:

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



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#### **Radio Spectrum Matter Test Results** 7

## 7.1 Duty Cycle

**Test Requirement** Test Method:

KDB 789033 D02 II B 1 KDB 789033 II B 1

## 7.1.1 E.U.T. Operation

**Operating Environment:** 

Temperature:	22 °C	Humidity:	50	% RH	Atmospheric Pressure: 1001	mbar
Test mode:	modulation found the da MCS0 is the case of IEEI 802.11ac(VI 802.11ac(VI	types. All data i ata rate @ 6Mb e worst case of E 802.11n(HT4 HT20); data rat HT40); data rat	rates f ps is f IEEE 0); da e @ N e @ N	for each m the worst o 802.11n(H ata rate @ MCS0 is th MCS0 is th	tinuously transmitting mode with a nodulation type have been tested a case of IEEE 802.11a; data rate ( 1720); data rate @ MCS0 is the w MCS0 is the worst case of IEEE e worst case of IEEE e worst case of IEEE case is recorded in the report.	and D
	modulation 1 found the da MCS0 is the case of IEEI 802.11ac(VI 802.11ac(VI	types. All data i ata rate @ 6Mb e worst case of E 802.11n(HT4 HT20); data rati HT40); data rati	rates f ps is f IEEE 0); da e @ N e @ N	for each m the worst o 802.11n(H ata rate @ MCS0 is th MCS0 is th	ntinuously transmitting mode with nodulation type have been tested a case of IEEE 802.11a; data rate ( 1T20); data rate () MCS0 is the w MCS0 is the worst case of IEEE e worst case of IEEE e worst case of IEEE case is recorded in the report.	and D
	modulation i found the da MCS0 is the case of IEEI 802.11ac(VI 802.11ac(VI	types. All data i ata rate @ 6Mb e worst case of E 802.11n(HT4 HT20); data rat HT40); data rat	rates f ps is f IEEE 0); da e @ N e @ N	for each m the worst o 802.11n(F ata rate @ MCS0 is th MCS0 is th	ntinuously transmitting mode with odulation type have been tested a case of IEEE 802.11a; data rate ( 1T20); data rate () MCS0 is the w MCS0 is the worst case of IEEE e worst case of IEEE e worst case of IEEE case is recorded in the report.	and D
	modulation 1 found the da MCS0 is the case of IEEI 802.11ac(VI	types. All data i ata rate @ 6Mb worst case of E 802.11n(HT4 HT20); data rat	rates f ps is f IEEE 0); da e @ N	for each m the worst o 802.11n(H ata rate @ MCS0 is th	tinuously transmitting mode with a nodulation type have been tested a case of IEEE 802.11a; data rate ( 1T20); data rate () MCS0 is the w MCS0 is the worst case of IEEE e worst case of IEEE e worst case of IEEE	and D

802.11ac(VHT80). Only the data of worst case is recorded in the report.



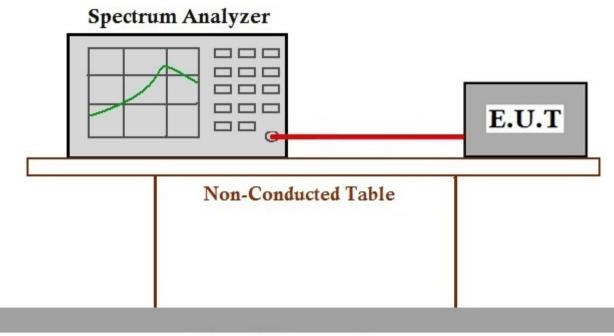
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## 7.1.2 Test Setup Diagram



## **Ground Reference Plane**

#### 7.1.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM200900737903



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## 7.2 99% Bandwidth

Test Requirement	
Test Method:	

N/A KDB 789033 II D

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

Operating Environment:

Temperature:22 °CHumidity:50 % RHAtmospheric Pressure:1001mbarTest mode:d:TX mode (Band 1)\_Keep the EUT in continuously transmitting mode with all<br/>modulation types. All data rates for each modulation type have been tested and<br/>found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @<br/>MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst<br/>case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE<br/>802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE<br/>802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE<br/>802.11ac(VHT80). Only the data of worst case is recorded in the report.

e: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.

f: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.

g: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.



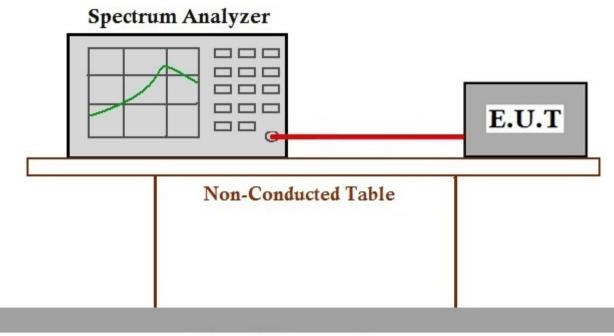
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## 7.2.2 Test Setup Diagram



## **Ground Reference Plane**

#### 7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM200900737903



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## 7.3 26dB Emission bandwidth

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

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

Operating Environment:

Temperature:22 °CHumidity:50 % RHAtmospheric Pressure:1001mbarTest mode:d:TX mode (Band 1)\_Keep the EUT in continuously transmitting mode with all<br/>modulation types. All data rates for each modulation type have been tested and<br/>found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @<br/>MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst<br/>case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE<br/>802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE<br/>802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE<br/>802.11ac(VHT80). Only the data of worst case is recorded in the report.

e: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.

f: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.

g: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.



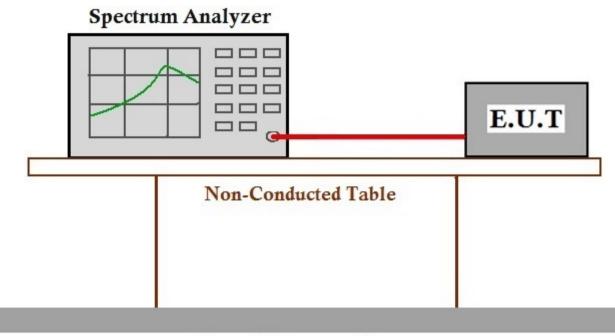
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## 7.3.2 Test Setup Diagram



## **Ground Reference Plane**

#### 7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM200900737903



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

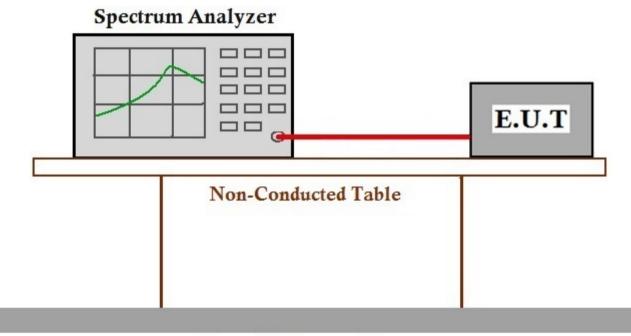
Test Requirement	47 CFR Part 15, Subpart C 15.407 (e)
Test Method:	KDB 789033 D02 II C 2
Limit:	≥500 kHz

### 7.4.1 E.U.T. Operation

**Operating Environment:** 

Temperature:22 °CHumidity:50 % RHAtmospheric Pressure:1001mbarTest modeg:TX mode (Band 3)\_Keep the EUT in continuously transmitting mode with all<br/>modulation types. All data rates for each modulation type have been tested and<br/>found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @<br/>MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst<br/>case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE<br/>802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE<br/>802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE<br/>802.11ac(VHT80). Only the data of worst case is recorded in the report.

#### 7.4.2 Test Setup Diagram



## **Ground Reference Plane**

## 7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM200900737903



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## 7.5 Maximum Conducted output power

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

Frequenc	y band(MHz)	Limit
E1E0 E	250	≤1W(30dBm) for master device
5150-5	0250	≤250mW(24dBm) for client device
5250-5	5350	≤250mW(24dBm) for client device or 11dBm+10logB*
5470-5	5725	≤250mW(24dBm) for client device or 11dBm+10logB*
5725-5	5850	≤1W(30dBm)
Remark:	* Where B is the	ne 26dB emission bandwidth in MHz.
	The maximum conducted output power must be measured over any interval or continuous transmission using instrumentation calibrated in terms of an rms-equivalen voltage.	

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

**Operating Environment:** 

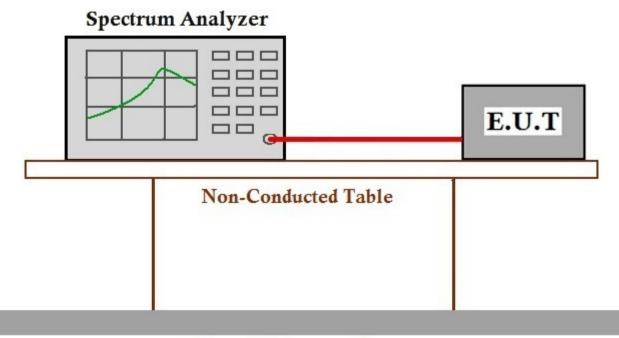
	Humidity.	50 % RH	Atmospheric Pressure:	1001 mbar
d:TX mode ( modulation t found the da MCS0 is the case of IEEE 802.11ac(VH 802.11ac(VH 802.11ac(VH 802.11ac(VH e:TX mode ( modulation t found the da MCS0 is the case of IEEE 802.11ac(VH 802.11ac(VH 802.11ac(VH 802.11ac(VH 802.11ac(VH 802.11ac(VH 802.11ac(VH 802.11ac(VH 802.11ac(VH 802.11ac(VH 802.11ac(VH 802.11ac(VH 802.11ac(VH 802.11ac(VH 802.11ac(VH 802.11ac(VH 802.11ac(VH	Band 1)_Keep ypes. All data r ita rate @ 6Mb worst case of 802.11n(HT4 1T20); data rate 1T40); data rate 1T80). Only the Band 2A)_Kee ypes. All data r ita rate @ 6Mb worst case of 802.11n(HT4 1T20); data rate 1T40); data rate 1T80). Only the Band 2C)_Keep ypes. All data r ita rate @ 6Mb worst case of 802.11n(HT4 1T20); data rate 1T40); data rate rate 1T40); data rate 1T40); data rate rate rate rate rate rate rate r	the EUT in co rates for each ps is the wors IEEE 802.11n 0); data rate ( e @ MCS0 is e @ MCS0 is e data of worst p the EUT in c rates for each ps is the wors IEEE 802.11n 0); data rate ( e @ MCS0 is e data of worst p the EUT in c rates for each ps is the wors IEEE 802.11n 0); data rate ( e @ MCS0 is e data of worst p the EUT in c rates for each ps is the wors IEEE 802.11n 0); data rate ( e @ MCS0 is e data of worst the EUT in co rates for each ps is the worst the EUT in co	ontinuously transmitting mod modulation type have been t case of IEEE 802.11a; data (HT20); data rate @ MCS0 if MCS0 is the worst case of the worst case of IEEE t case is recorded in the repor- continuously transmitting mo- modulation type have been t case of IEEE 802.11a; data (HT20); data rate @ MCS0 if MCS0 is the worst case of the worst case of IEEE t case is recorded in the repo- continuously transmitting mo- modulation type have been t case is recorded in the repo- continuously transmitting mo- modulation type have been t case of IEEE 802.11a; data (HT20); data rate @ MCS0 if the worst case of IEEE t case is recorded in the repo- modulation type have been t case of IEEE 802.11a; data (HT20); data rate @ MCS0 if the worst case of IEEE t case is recorded in the repo- modulation type have been t case is recorded in the repo- modulation type have been t case is recorded in the repo- modulation type have been t case of IEEE 802.11a; data modulation type have been t case of IEEE 802.11a; data	e with all tested and a rate @ is the worst f IEEE ort. ode with all tested and a rate @ is the worst f IEEE ort. de with all tested and a rate @ is the worst f IEEE ort. e with all tested and a rate @ is the worst f IEEE
case of IEEE	E 802.11n(HT4	0); data rate @	MCS0 is the worst case of	f IEEE
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	22 °C d:TX mode ( modulation t found the da MCS0 is the case of IEEE 802.11ac(VH 804.11ac(VH 804.11ac(VH 804.11ac(VH 804.11ac(VH 804.11ac(VH 804.11ac(VH 804.11ac(VH 804.11ac(VH 804.11ac(VH 804.11ac(VH 804.11ac(	22 °C Humidity: d:TX mode (Band 1)_Keep modulation types. All data in found the data rate @ 6Mb MCS0 is the worst case of case of IEEE 802.11n(HT4 802.11ac(VHT20); data rate 802.11ac(VHT40); data rate 802.11ac(VHT80). Only the e:TX mode (Band 2A)_Keep modulation types. All data in found the data rate @ 6Mb MCS0 is the worst case of case of IEEE 802.11n(HT4 802.11ac(VHT20); data rate 802.11ac(VHT20); data rate 802.11ac(VHT20); data rate 802.11ac(VHT80). Only the f:TX mode (Band 2C)_Keep modulation types. All data in found the data rate @ 6Mb MCS0 is the worst case of case of IEEE 802.11n(HT4 802.11ac(VHT20); data rate 802.11ac(VHT20); data rate 802.11ac(VHT20); data rate 802.11ac(VHT20); data rate 802.11ac(VHT20); data rate 802.11ac(VHT40); data rate 802.11ac(VHT80). Only the g:TX mode (Band 3)_Keep modulation types. All data in found the data rate @ 6Mb MCS0 is the worst case of case of IEEE 802.11n(HT4	d:TX mode (Band 1)_Keep the EUT in co modulation types. All data rates for each found the data rate @ 6Mbps is the wors MCS0 is the worst case of IEEE 802.11n case of IEEE 802.11n(HT40); data rate @ 802.11ac(VHT20); data rate @ MCS0 is 802.11ac(VHT40); data rate @ MCS0 is 802.11ac(VHT80). Only the data of worst e:TX mode (Band 2A)_Keep the EUT in of modulation types. All data rates for each found the data rate @ 6Mbps is the wors MCS0 is the worst case of IEEE 802.11n case of IEEE 802.11n(HT40); data rate @ 802.11ac(VHT20); data rate @ MCS0 is 802.11ac(VHT80). Only the data of worst fits and the data rate @ 6Mbps is the worst MCS0 is the worst case of IEEE 802.11n case of IEEE 802.11n(HT40); data rate @ 802.11ac(VHT80). Only the data of worst fitx mode (Band 2C)_Keep the EUT in of modulation types. All data rates for each found the data rate @ 6Mbps is the worst MCS0 is the worst case of IEEE 802.11n case of IEEE 802.11n(HT40); data rate @ 802.11ac(VHT80). Only the data of worst fitx mode (Band 2C)_Keep the EUT in of modulation types. All data rates for each found the data rate @ 6Mbps is the worst MCS0 is the worst case of IEEE 802.11n case of IEEE 802.11n(HT40); data rate @ 802.11ac(VHT20); data rate @ MCS0 is 802.11ac(VHT40); data rate @ MCS0 is	22 °C Humidity: 50 % RH Atmospheric Pressure: d:TX mode (Band 1)_Keep the EUT in continuously transmitting mod modulation types. All data rates for each modulation type have been found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of 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(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



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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 SHEM200900737903



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## 7.6 Peak Power spectrum density

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

Frequenc	y band(MHz)	Limit	
E1E0 E	250	≤17dBm in 1MHz for master device	
5150-5250		≤11dBm in 1MHz for client device	
5250-5	5350	≤11dBm in 1MHz for client device	
5470-5	5725	≤11dBm in 1MHz for client device	
5725-5	850	≤30dBm in 500 kHz	
Remark:	The maximum power spectral density is measured as a conducted emission by direc connection of a calibrated test instrument to the equipment under test.		

### 7.6.1 E.U.T. Operation

**Operating Environment:** 

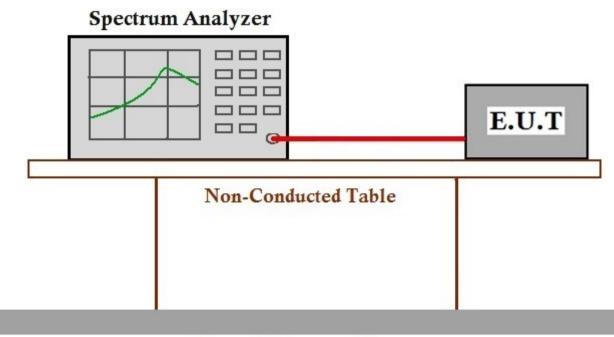
Temperature:	22 °C	Humidity: 5	0 % RH	Atmospheric Pressure:	1001 mbar	
Test mode:	modulation typ found the data MCS0 is the w case of IEEE 8 802.11ac(VHT 802.11ac(VHT	bes. All data rate i rate @ 6Mbps vorst case of IEE 302.11n(HT40); '20); data rate @ '40); data rate @	es for each m is the worst of EE 802.11n(H data rate @ MCS0 is the MCS0 is the	tinuously transmitting mode odulation type have been to ase of IEEE 802.11a; data IT20); data rate @ MCS0 is MCS0 is the worst case of I e worst case of IEEE e worst case of IEEE ase is recorded in the repo	ested and rate @ s the worst IEEE	
	modulation typ found the data MCS0 is the w case of IEEE 8 802.11ac(VHT 802.11ac(VHT	bes. All data rate a rate @ 6Mbps vorst case of IEE 302.11n(HT40); 720); data rate @ 740); data rate @	es for each m is the worst of EE 802.11n(H data rate @ MCS0 is the MCS0 is the	ntinuously transmitting mod odulation type have been to ase of IEEE 802.11a; data IT20); data rate @ MCS0 is MCS0 is the worst case of I e worst case of IEEE e worst case of IEEE ase is recorded in the repo	ested and rate @ s the worst IEEE	
	f: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(VHT80). Only the data of worst case is recorded in the report.					
	modulation typ found the data MCS0 is the w case of IEEE 8 802.11ac(VHT 802.11ac(VHT 802.11ac(VHT	bes. All data rate rate @ 6Mbps vorst case of IEE 302.11n(HT40); 720); data rate @ 740); data rate @ 780). Only the da	es for each m is the worst of EE 802.11n(H data rate @ MCS0 is the MCS0 is the ata of worst c	tinuously transmitting mode odulation type have been to case of IEEE 802.11a; data IT20); data rate @ MCS0 is MCS0 is the worst case of I e worst case of IEEE e worst case of IEEE ase is recorded in the repo	ested and rate @ s the worst IEEE rt.	
检验检测专用章 Linspection & Testing Services	Unless otherwise agreed i overleaf, available on reque subject to Terms and Com Attention is drawn to the lin advised that information cc Client's instructions, if any transaction from exercising except in full, without prior appearance of this docume results shown in this test rej Attention: To check the au or email: CN_Doccheck@8			pany subject to its General Conditions of S s-and-Conditions.aspx and, for electronic form gs.com/en/Terms-and-Conditions/Terms-e-D ion issues defined therein. Any holder of this at the time of its intervention only and with Dient and this document does not exonerat saction documents. This document cannot t orized alteration, forgery or falsification of to the fullest extent of the law. Unless othery ample(s) are retained for 30 days only. ficate, please contact us at telephone: (86- 1(88-21)h1915666 fi88-21)h1915678 www.		

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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 SHEM200900737903



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## 7.7 Radiated Spurious emissions and Band-edge

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

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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

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

Operating Environment:

	ninen.					
Temperature:	22 °C	Humidity:	50 % RH	Atmospheric Pressure	: 1001	mbar
Test mode:	modulation typ found the data MCS0 is the w case of IEEE 8 802.11ac(VHT 802.11ac(VHT	bes. All data ra i rate @ 6Mbps vorst case of IE 302.11n(HT40) 720); data rate 740); data rate	tes for each r s is the worst EE 802.11n( ; data rate @ @ MCS0 is tl @ MCS0 is tl	ntinuously transmitting mo nodulation type have beer case of IEEE 802.11a; da HT20); data rate @ MCS0 MCS0 is the worst case of ne worst case of IEEE ne worst case of IEEE case is recorded in the rej	tested a ta rate @ is the w of IEEE	and D
	modulation typ found the data MCS0 is the w case of IEEE 8 802.11ac(VHT 802.11ac(VHT	bes. All data ra rate @ 6Mbps vorst case of IE 302.11n(HT40) 20); data rate 40); data rate	tes for each r s is the worst EE 802.11n( ; data rate @ @ MCS0 is tl @ MCS0 is tl	ontinuously transmitting m nodulation type have beer case of IEEE 802.11a; da HT20); data rate @ MCS0 MCS0 is the worst case of ne worst case of IEEE ne worst case of IEEE case is recorded in the rep	tested a ta rate @ is the w of IEEE	and D
	modulation typ found the data MCS0 is the w case of IEEE 8 802.11ac(VHT 802.11ac(VHT	bes. All data ra i rate @ 6Mbps vorst case of IE 302.11n(HT40) 720); data rate 740); data rate	tes for each r s is the worst EE 802.11n( ; data rate @ @ MCS0 is tl @ MCS0 is tl	ontinuously transmitting monodulation type have been case of IEEE 802.11a; da HT20); data rate @ MCS0 MCS0 is the worst case of ne worst case of IEEE ne worst case of IEEE case is recorded in the rep	tested a ta rate @ is the w of IEEE	and D
	g: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 an found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @					
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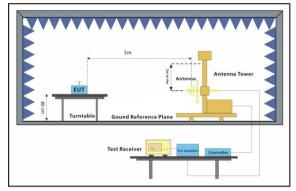
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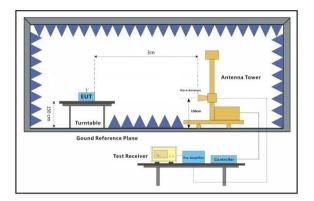
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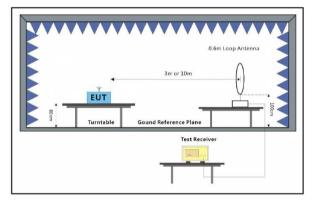
Page: 26 of 224 MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

#### 7.7.2 Test Setup Diagram





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#### 7.7.3 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

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

Remark 3:This test item was investigated while operating in SISO and MIMO mode, however, it was d etermined that SISO antenna 1 operation for b/g modulation and MIMO antenna operation for n modu lation produced the worst emissions. So the emissions produced from other operation are not report.



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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:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



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



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1	4	4989.100	34.20		0.9			5.14		54.0	0	-18	86				AVC	3		
2	ł	5150.000	45.94		1.0	5	4	6.99		54.0	)0	-7.	01				AVC	3		
3	ļ	5202.990	84.98		1.0	9	8	6.07		54.0	)0	32.	07				AVC	3		

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



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1	<b>20</b> .	0 dBu∀/m												
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2		500.000 <b>157</b> 3	3.00 <b>1616</b> .	00 1719.00	) 479	1 12.00 1	865.00	493	8.00 <b>5</b> 0	   .00 5	084.00	5230		
<mark>ا</mark> ٥.	F	requency (MHz)	Reading (dBuV)	Correction factor(dB/r		Result BuV/m)	Limit (dBuV/		Margin (dB)		Rem	ark		
1	4	4965.740	47.84	0.88		48.72	74.00		-25.28		pea	k		
2	!	5150.000	56.17	1.05		57.22	74.00		-16.78		pea	k		
3	1	5205.180	92.89	1.09		93.98	74.00		19.98		pea	k		

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



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2	0.0 1500.00	0 1573	3.00 464	16.00	471	9.00	179	2.00	185	5.00	493	8.00	<b>501</b>	.00	5084	1.00		5	230.0	 0 MHz
No.	Freque (MH:		Readin (dBuV		Correct	tion B/m)		lesult BuV/m)	(	Lim dBu\		Ma (d	rgin B)			F	Rema	ark		
1	5126.		35.96	<u> </u>	1.0			7.00	Τ,	54.0			7.00				AVC	3		
2	5150.	000	43.41		1.0	5	4	4.46		54.0	0	-9	.54				AVC	3		
3	5175.	980	83.31		1.0	7	8	4.38		54.0	0	- 30	.38		AVG					

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



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1	20.	0 dBu∀/m								
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2	20.0									
	- 15	500.000 <b>157</b> I	.00 4642	.00 4713	3.00	1784.00 1	1855.00 492	6.00 4997	.00 5068.00	5210.00 MHz
No.	F	requency (MHz)	Reading (dBuV)	Correct factor(d		Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark
No. 1				Correc factor(d 0.9	B/m)					
	!	(MHz)	(dBuV)	factor(d	B/m) 7	(dBuV/m)	(dBuV/m)	(dB)		Remark

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



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No.	F	requency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Rem	ark
1	I	5128.350	48.33	1.04	49.37	74.00	-24.63	pea	k
·	· ·		1						
2		5150.000	46.97	1.05	48.02	74.00	-25.98	pea	k

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



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0.		500.000 1573				32.00 1 Result	855.00		8.00	5011	.00 50	84.00	nark	30.00 MH
0.	F	requency (MHz)	Reading (dBuV)	factor(dB/		Result BuV/m)	dBuV			largin (dB)		Ren	nark	
		4964.280	47.68	0.88		48.56	74.0			25.44			ak	
		5150.000	55.04	1.05		56.09	74.0			17.91	peak			
		5192.770	94.86	1.08		95.94	74.0	0		21.94			ak	

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



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	45	5 <b>00.000 157</b> 3	3.00 4646	5.00 471	9.00	479	2.00 1	1865.	00 49	938	.0 <b>0 5</b> (	D <b>I</b> I.	<b>00 50</b> 8	34.00		52	30.00	MHz
No.	F	requency (MHz)	Reading (dBuV)	Corre factor(			lesult BuV/m)		Limit BuV/m	)	Margi (dB)	n			Rema	ark		
1	ļ	5124.150	36.06	1.0			7.10		54.00		-16.9	0			AV	3		
2	{	5150.000	46.66	1.0	5	4	7.71		54.00		-6.29	)			AV	G		
3	1	5192.040	84.87	1.0	8	8	5.95		54.00		31.98	5	AVG					

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					1.1.1.1	Margin	Remark	
D.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	(dB)	Keillah	
<b>D</b> .			Correction factor(dB/m) 1.05				peak	
D.	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		

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



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	45	5 <b>00.000 157</b> 3	3.00 464	6.00	1719.00	479	2.00 1	865.00	493	8.00 5	011.0	<b>)0 50</b> 8	34.00	523	0. <b>00 MHz</b>
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1	{	5135.830	38.51		1.04		9.55	54	00	-14.4	5		AV	G	
2	1	5150.000	46.16		1.05	4	7.21	54.	00	-6.79	)		AV	G	
3	1	5205.910	85.45		1.09	8	6.54	54.	00	32.54	4		AV	G	

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



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2	!	5150.000	44.40	1.05	45.4	5 54	.00	-8.55		AVC	G	
3	!	5193.000	86.21	1.08	87.2	9 54	.00	33.29		AVC	G	

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



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	!	(MHz)	(dBuV)	factor(dB/m					ak ak

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



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	5136.020 40.62		1.04	41.66	54.00	-12.34	AV		
		5150.000	43.33	1.05	44.38	54.00	-9.62	AV	
	1	5193.000	88.16	1.08	89.24	54.00	35.24	AV	G

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



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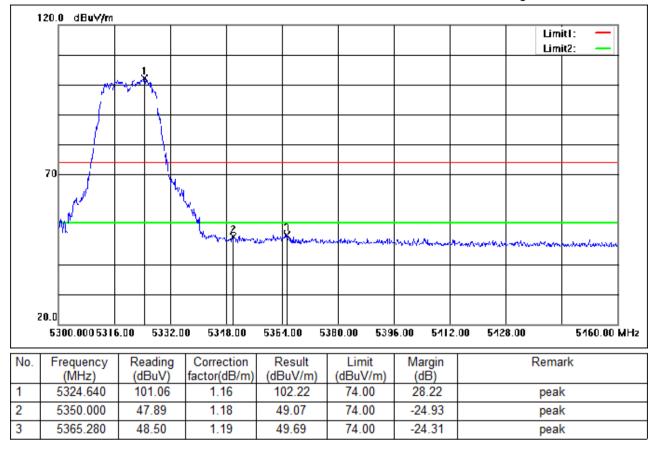
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Mode:e; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High



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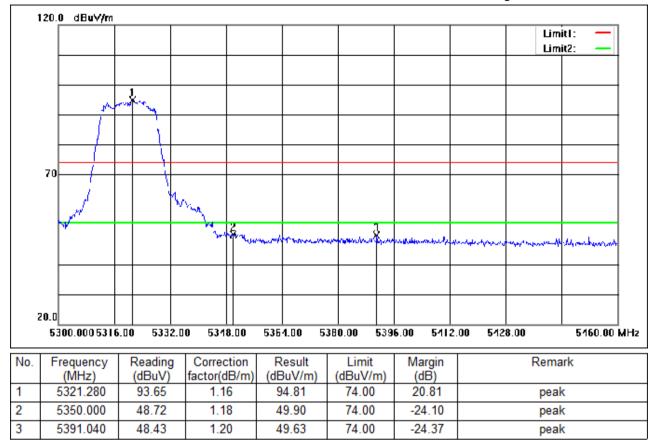
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Mode:e; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High

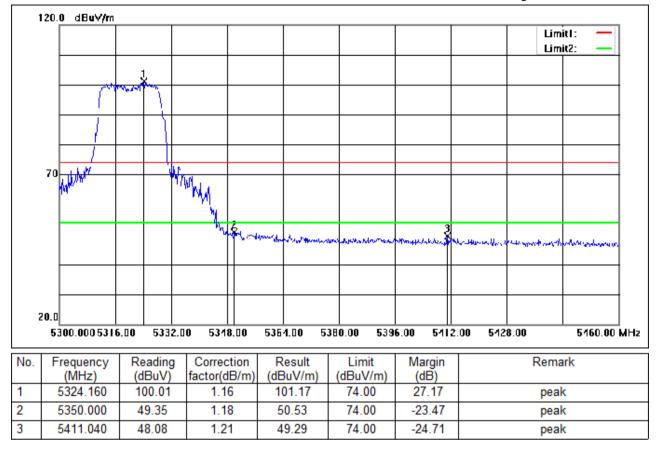


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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High

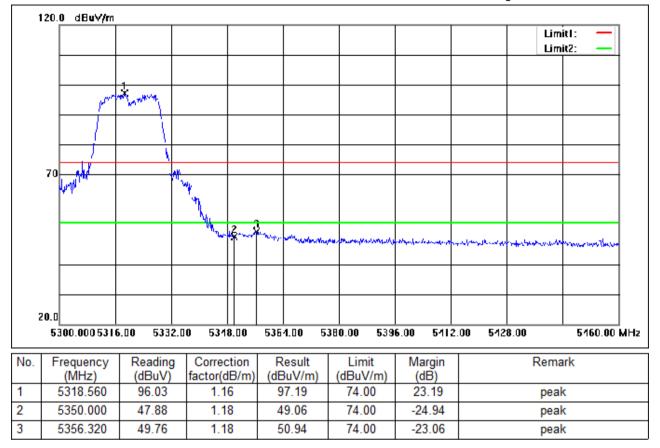


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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High

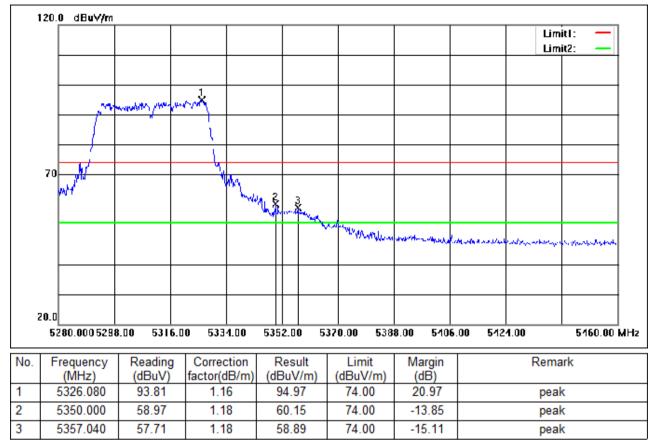


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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low

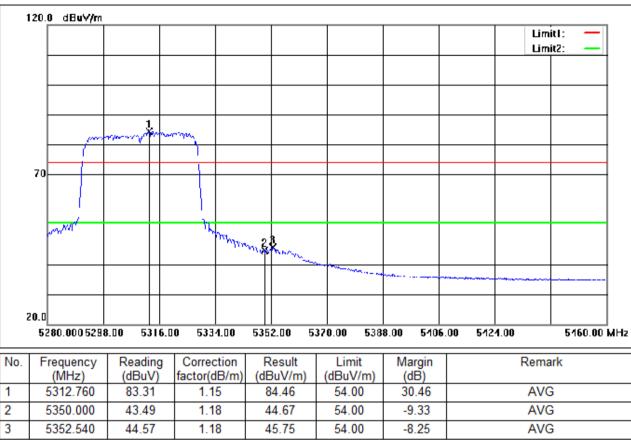


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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low

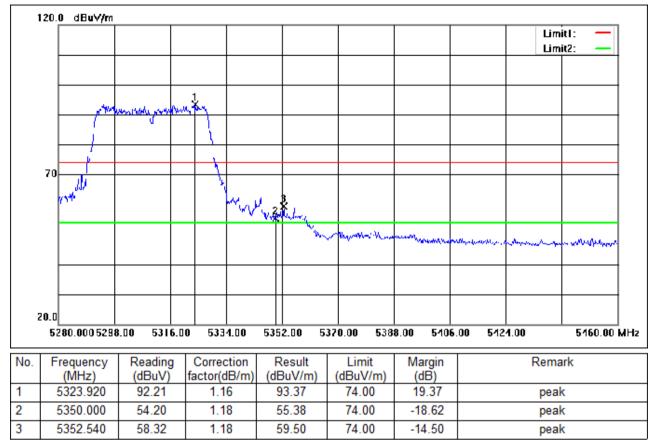


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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low

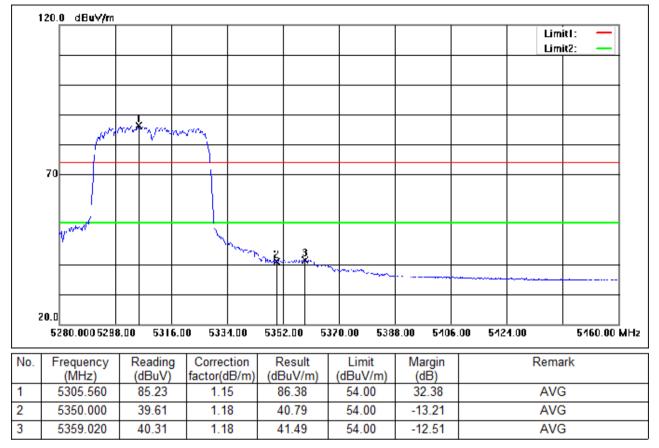


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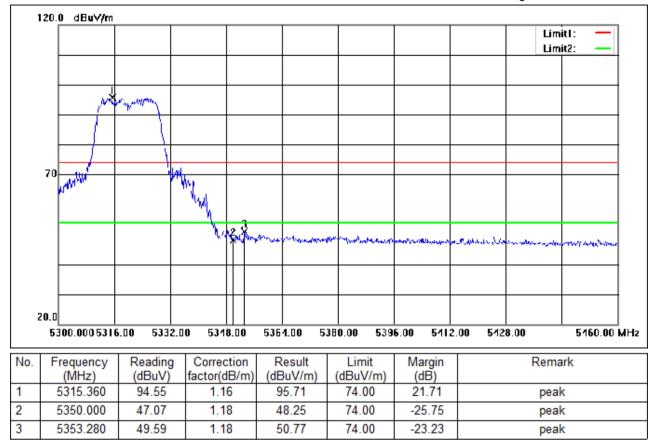
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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High

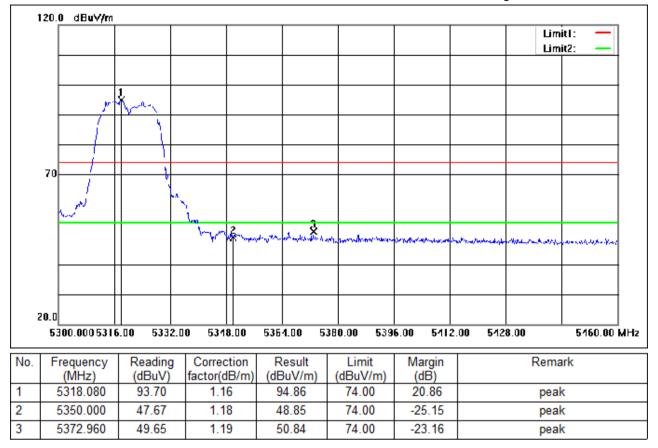


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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High



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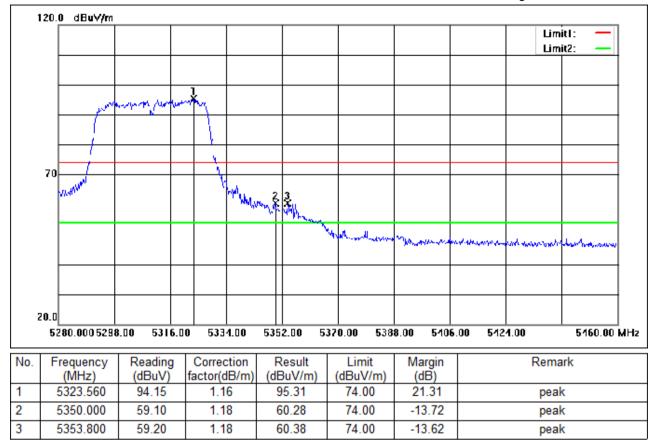
td.	NO.588	8 West	Jir	ndu Road, Songjiang District,	Shanghai, China	201612
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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High



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

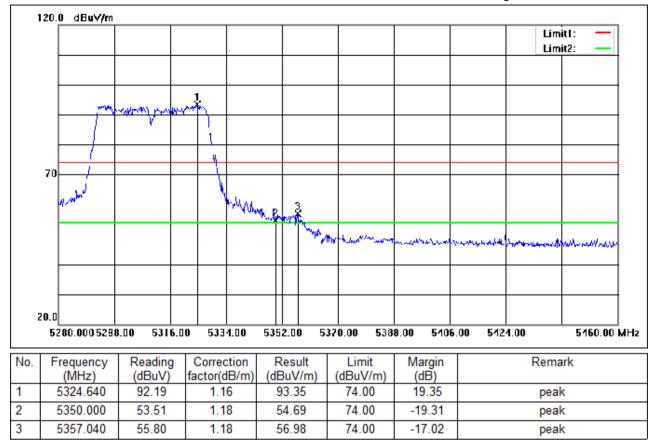


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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High

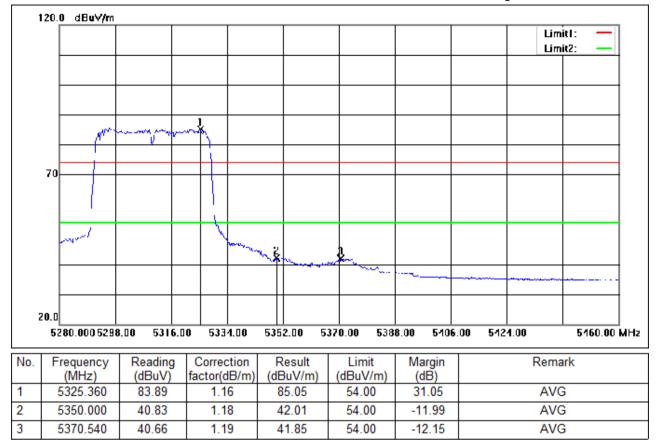


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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High

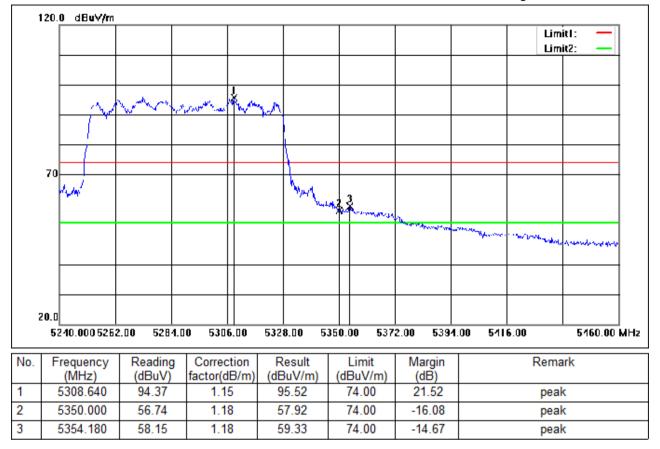


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Report No.: SHEM200900737903 Page: 59 of 224



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



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Report No.: SHEM200900737903 Page: 60 of 224

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2		5350.000	45.99	1.18		47.17		54.		-6.83				AVG		
3		5355.720	45.59	1.18		46.77		54.		-7.2				AVG		

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

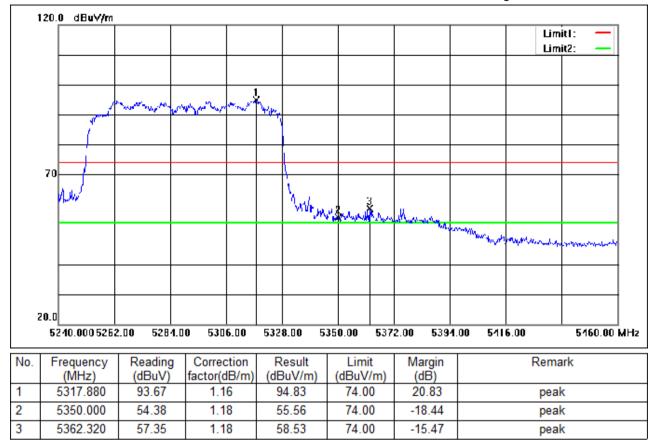


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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:High



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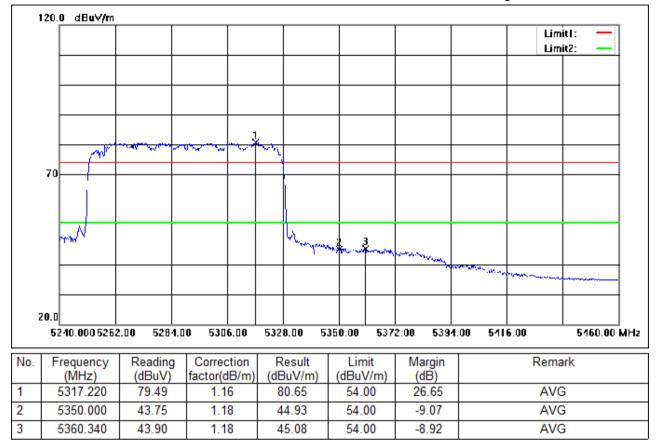
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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:High



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1	5456.080	50.71	1.24	51.95	74.00	-22.05	pea	ak
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2	5460.000	46.60	1.25	47.85	74.00	-26.15	pea	

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



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lo.	F	requency (MHz)	Reading (dBuV)	Correction factor(dB/m	Result ) (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark
	1	5456.760	49.55	1.24	50.79	74.00	-23.21		peak
	1	5460.000	46.88	1.25	48.13	74.00	-25.87		peak

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



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1 2			, ,			74.00 74.00	-25.05 -26.50		ak ak

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



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	5350.000536	7.00 5384.0	10 5401.00	5418.00 5	135.00 545	2.00 5469	.00 5186.00	5520.00 MHz
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	R	emark
1	5445.710	47.77	1.24	49.01	74.00	-24.99		peak
2	5460.000	45.65	1.25	46.90	74.00	-27.10	7.10 peak	
3	5496.370	93.70	1.27	94.97	74.00	20.97		peak

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



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۷o.	F	requency (MHz)	Reading (dBuV)	Correction factor(dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark
1	{	5444.430	50.08	1.24	51.32	74.00	-22.68		peak
2	5	5460.000	50.41	1.25	51.66	74.00	-22.34		peak
		5521.950	90.93	1.41	92.34	74.00	18.34		peak

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



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0.	F	requency (MHz)	Reading (dBuV)	Correct factor(d		Res (dBu		Lim (dBuV		Marg (dB)			Rem	nark	
		5452.220	48.92	1.2		50.		74.0		-23.8			pea	ak	
		5460.000	47.36	1.2		48.		74.0		-25.3			pea		
	1	5524.040	85.25	1.42	2	86.	67	74.0	0	12.6	7		pea	ak	

Mode:f; 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)	Re	emark
1	5404.910	47.95	1.21	49.16	74.00	-24.84	F	beak
2	5460.000	48.73	1.25	49.98	74.00	-24.02	F.	beak
3	5505.890	89.62	1.31	90.93	74.00	16.93	F	beak

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



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lo.		quency MHz)	Reading (dBuV)				esult 3uV/m)	(	Limi dBuV/		Ma (0	argin dB)				Rema	ark	
	- 54	31.770	47.68	1.2	23	4	8.91		74.0	0		5.09				pea	k	
2		60.000	46.34	1.2			7.59		74.0			6.41				pea		
	- 54	95.180	93.20	1.2	27	9	4.47		74.0	0	2	0.47				pea	k	

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



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	ţ	5455.640	50.16	1.24	51.40	74.00	-22.60		peak
		100 000	47.00	1.25	48.88	74.00	-25.12		peak
		5460.000	47.63	1.20	40.00	14.00	-20.12		peak

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



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	53 F	requency (MHz) 5437.020	Reading (dBuV) 48.33	Correc factor(d 1.23	tion B/m) 3	Result (dBuV/m) 49.56	Li (dBu 74	mit ıV/m) .00	Margin (dB) -24.44		550	2.00	Rema peal	ark
0.	53 F	350.000 5369 requency (MHz)	Reading (dBuV)	Correc factor(d	tion B/m) 3	Result (dBuV/m)	) (dBu 74	mit ıV/m)	Margin (dB)		550	2.00		ark k k

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



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2	ł	5460.000	50.07	+	1.2	5	5	51.32	+	74.	00	-2	2.68	+			pea			
3	!	5565.280	90.56		1.6	8	9	2.24	$\top$	74.	00	18	3.24	+			, pea			

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



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	20.0 53	950.000 5373	3.00 539	6.00 54	19.00 ction dB/m)	511; R (dB	2.00 5	i165.00	548	8.00 S	in	0 553	Re		5580.00 MH
lo.	20.0 53	350.0005373 requency (MHz)	3.00 539 Reading (dBuV)	6.00 51 g Corre factor(	19.00 ction dB/m) 23	511; R (dE 5	2.00 s esult BuV/m)	i155.00	518 mit IV/m)	8.00 9 Marg (dB)	in ) )8	0 553	Re	mark	5580.00 MH

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



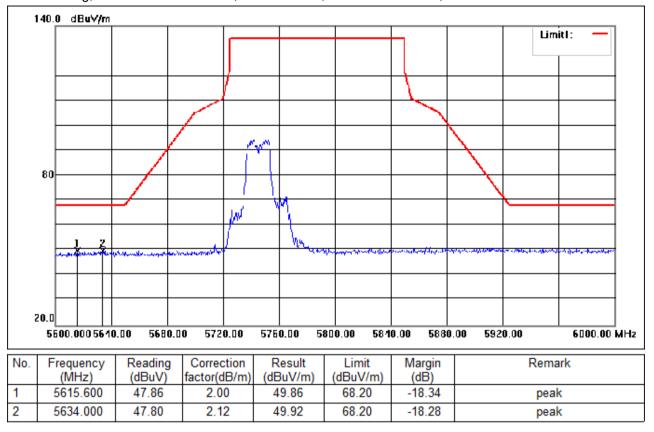
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Mode:g; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



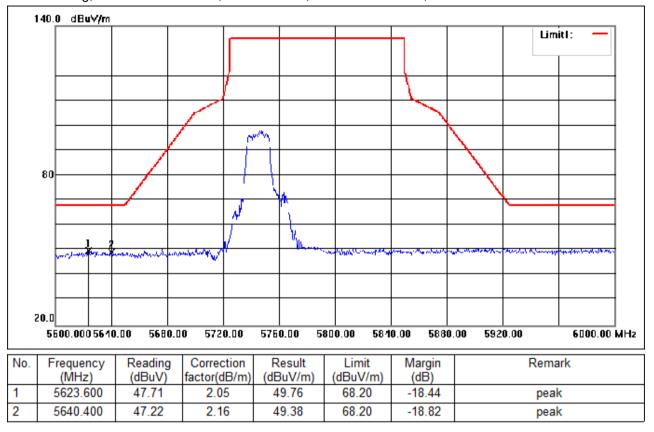
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Mode:g; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



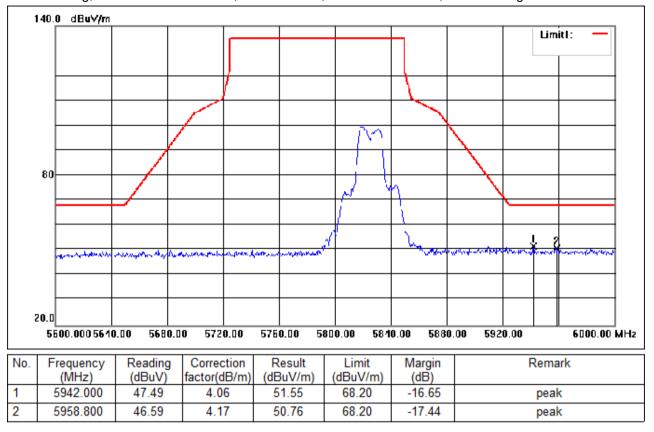
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Mode:g; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High



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	5500.000 5610	0.00 5680.	.00 5720.0	10 5760	.00 580	0.00 584	0.00 588	0.00 592	0.00	6000.00 MHz
No.	Frequency	Reading			sult	Limit	Margin		Rema	rk
	(MHz)	(dBuV)	factor(dB/			(dBuV/m)	(dB)			
1	5943.600	47.29	4.07		.36	68.20	-16.84		peak	
2	5969.600	46.80	4.24	51	.04	68.20	-17.16		peak	

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

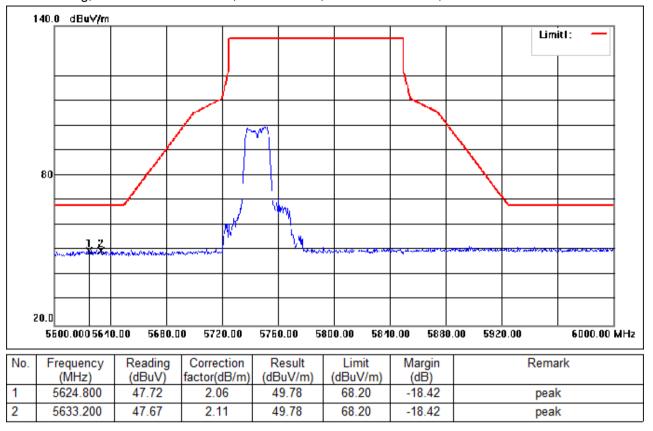


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Mode:g; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



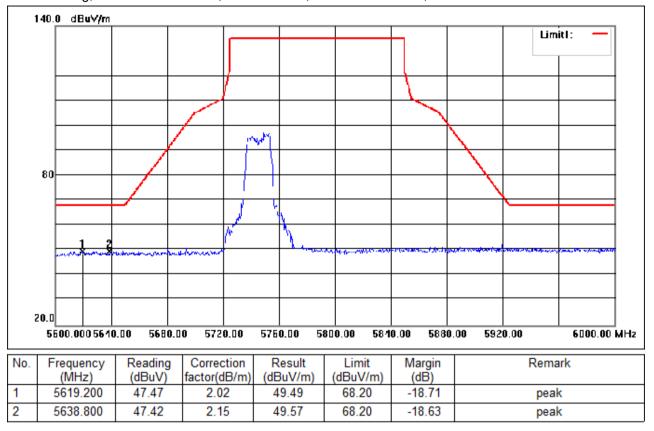
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Mode:g; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



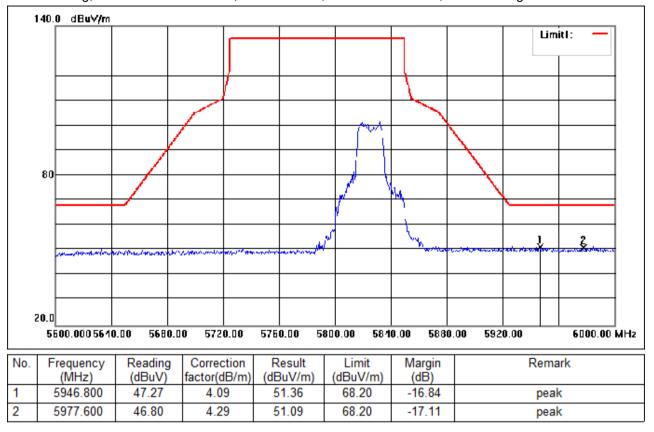
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Mode:g; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High

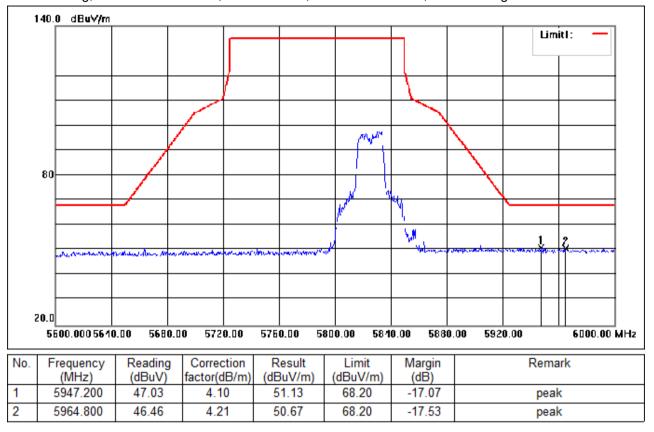


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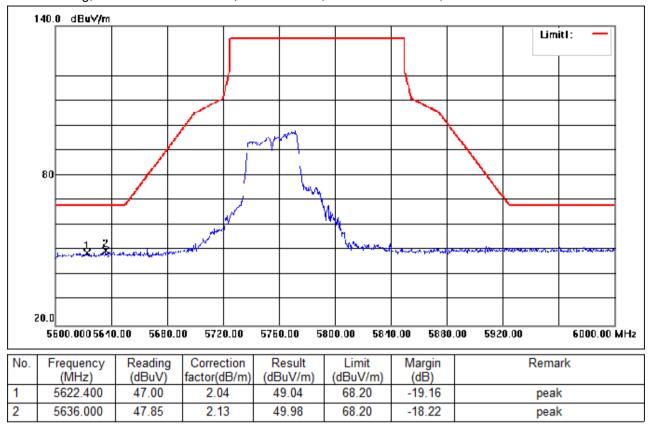
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Mode:g; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low

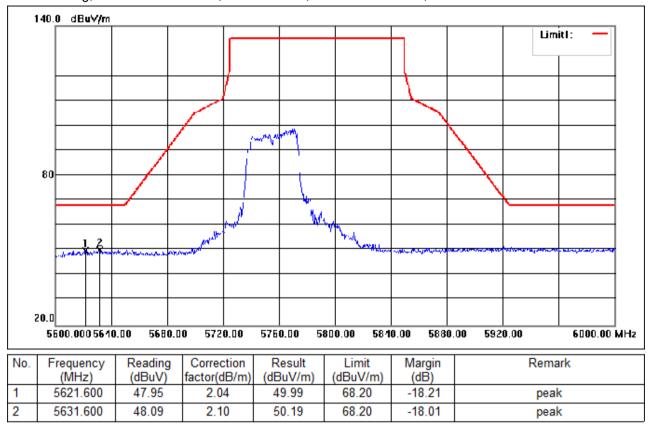


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Mode:g; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low

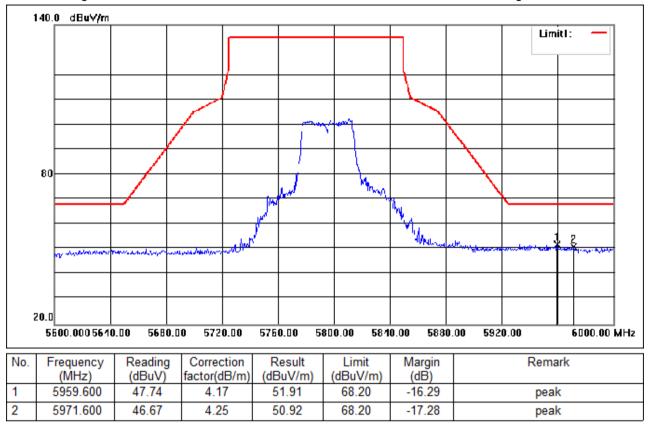


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Mode:g; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High

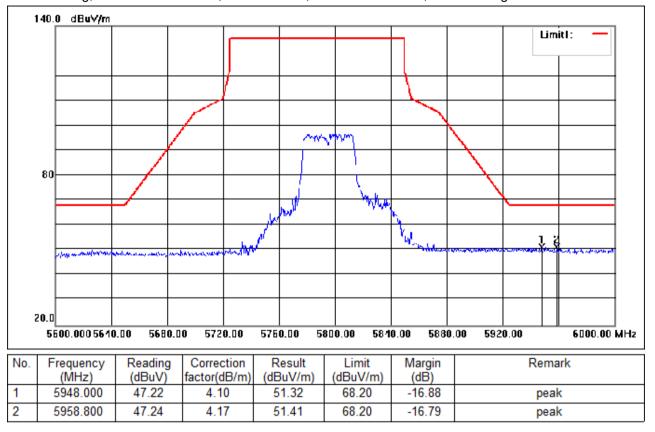


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Mode:g; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High

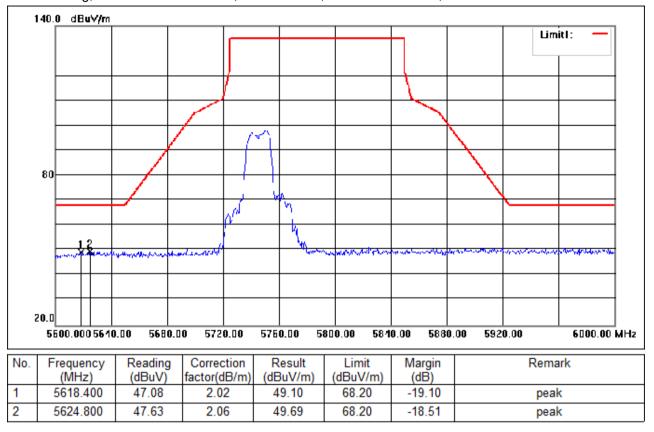


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Report No.: SHEM200900737903 Page: 87 of 224



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

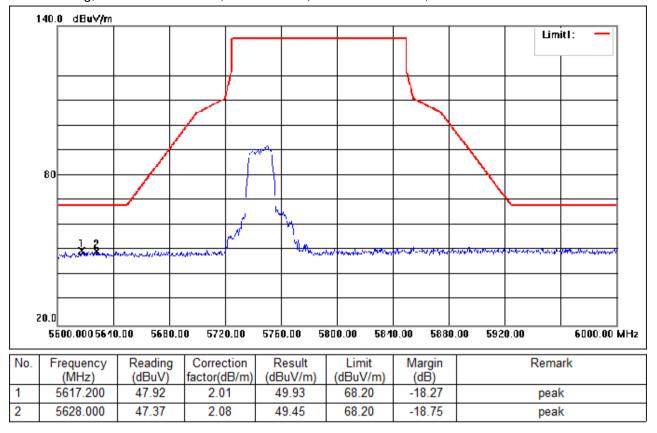


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Mode:g; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low

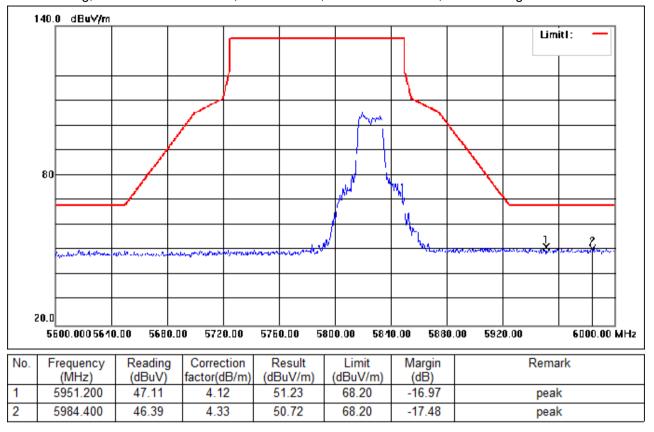


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Mode:g; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High



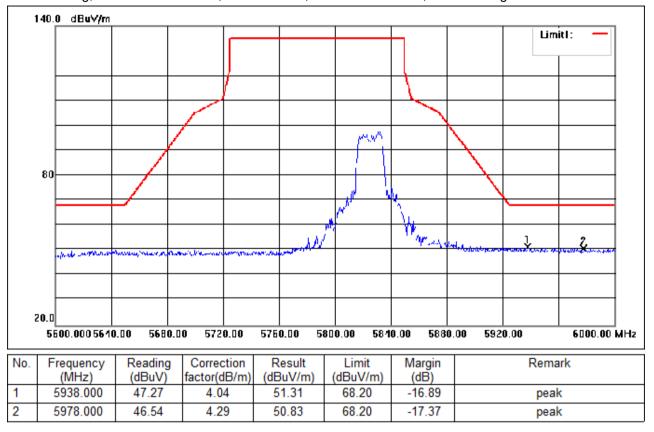
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Mode:g; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High

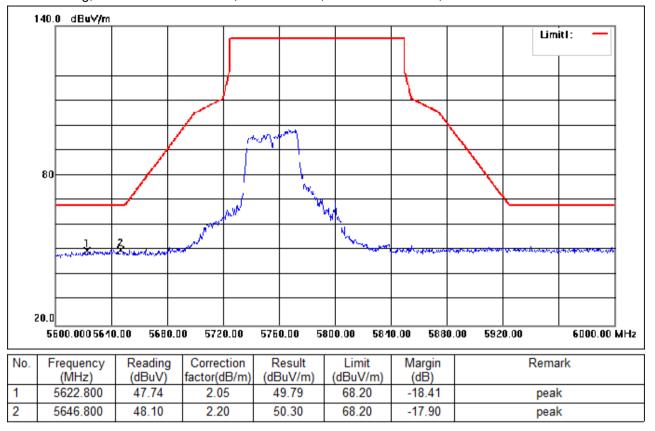


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Mode:g; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



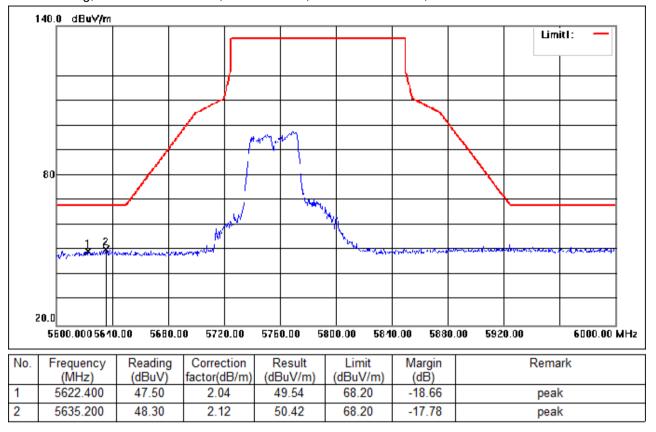
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Mode:g; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



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

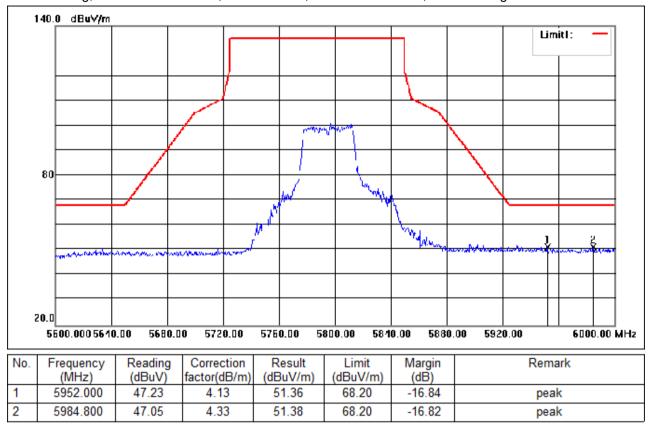


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Mode:g; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High

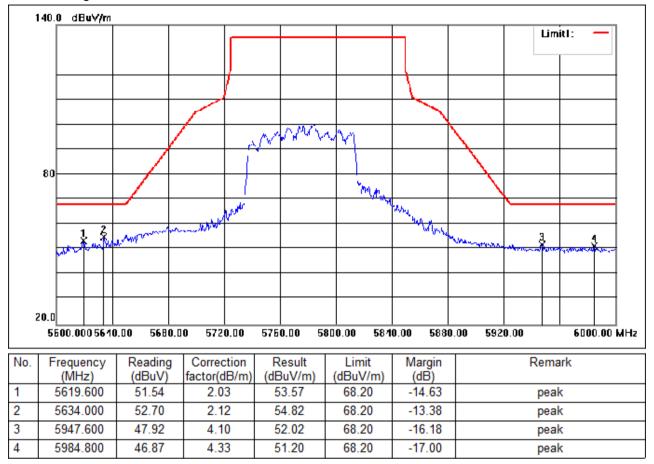


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Mode:g; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:middle

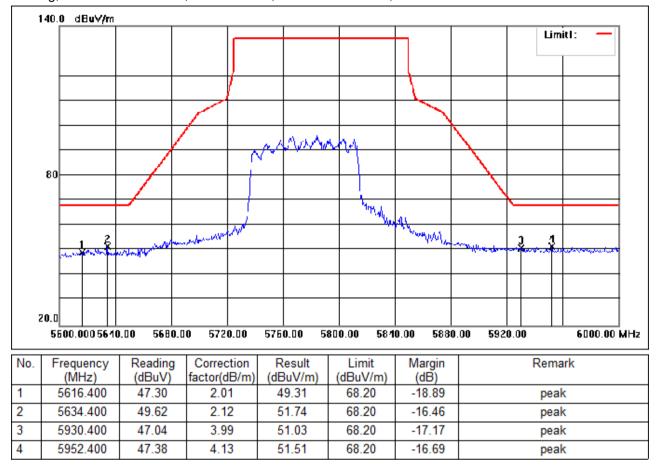


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#### 7.8 Radiated Emissions

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:	22 °C	Humidity:	50	% RH	Atmospheric Pressure: 100 <sup>-</sup>	l mbar		
Test mode:	modulation typ found the data MCS0 is the we 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	rates f ps is f IEEE 0); da e @ N e @ N	for each m the worst c 802.11n(H ita rate @ ACS0 is th ACS0 is th	tinuously transmitting mode with odulation type have been tested case of IEEE 802.11a; data rate IT20); data rate @ MCS0 is the MCS0 is the worst case of IEEE e worst case of IEEE e worst case of IEEE ase is recorded in the report.	l and @ worst		
	e:TX mode (Band 2A)_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 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.							
	modulation typ found the data MCS0 is the we case of IEEE 8 802.11ac(VHT 802.11ac(VHT 802.11ac(VHT g:TX mode (Ba	es. Alí data r rate @ 6Mb orst case of 02.11n(HT4 20); data rato 40); data rato 80). Only the and 3)_Keep	rates f ps is f IEEE 0); da e @ N e @ N e data the E	for each m the worst c 802.11n(H ta rate @ MCS0 is th ACS0 is th of worst c UT in cont	ntinuously transmitting mode wit odulation type have been tested case of IEEE 802.11a; data rate IT20); data rate @ MCS0 is the MCS0 is the worst case of IEEE e worst case of IEEE ase is recorded in the report. tinuously transmitting mode with odulation type have been tested	l and @ worst		
	found the data MCS0 is the we case of IEEE 8 802.11ac(VHT 802.11ac(VHT	rate @ 6Mb orst case of 02.11n(HT4 20); data rate 40); data rate	ps is † IEEE 0); da e @ N e @ N	the worst of 802.11n(H Ita rate @ MCS0 is the MCS0 is the	ase of IEEE 802.11a; data rate IT20); data rate @ MCS0 is the MCS0 is the worst case of IEEE e worst case of IEEE e worst case of IEEE ase is recorded in the report.	@ worst		



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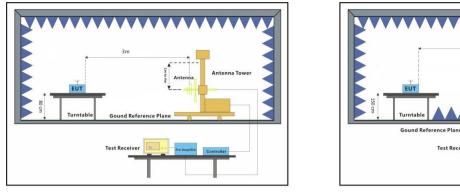
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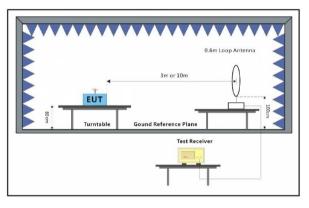


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Test Receiver

#### 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 determin ed that SISO antenna 1 operation for b/g modulation and MIMO antenna operation for n modulation p roduced the worst emissions. So the emissions produced from other operation are not report.



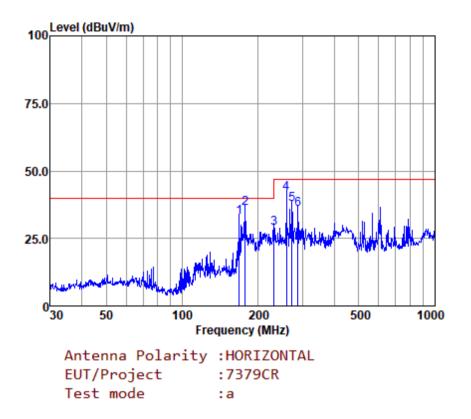
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Below 1GHz Mode:a; Polarization:Horizontal



		Read	Antenna	Cable	Preamp	Emission	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	167.824	60.25	12.89	1.83	42.21	32.76	40.00	-7.24	QP
2	177.509	64.55	12.05	1.89	42.20	36.29	40.00	-3.71	QP
3	230.907	58.62	10.09	2.14	42.13	28.72	47.00	-18.28	QP
4	259.234	69.58	12.07	2.25	42.10	41.80	47.00	-5.20	QP
5	272.278	64.91	12.59	2.29	42.11	37.68	47.00	-9.32	QP
6	286.982	62.62	12.99	2.35	42.12	35.84	47.00	-11.16	QP

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



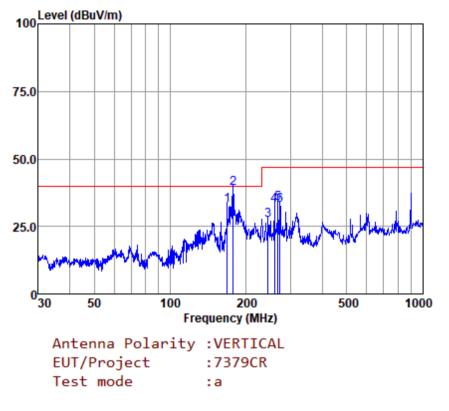
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Mode:a; Polarization:Vertical



		Read	Antenna	Cable	Preamp	Emission	n Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	167.824	60.35	12.89	1.83	42.21	32.86	40.00	-7.14	QP
2	177.207	67.50	12.05	1.89	42.20	39.24	40.00	-0.76	QP
3	244.232	56.18	11.21	2.20	42.11	27.48	47.00	-19.52	QP
4	259.234	60.64	12.07	2.25	42.10	32.86	47.00	-14.14	QP
5	266.609	61.21	12.37	2.28	42.11	33.75	47.00	-13.25	QP
6	272.278	60.24	12.59	2.29	42.11	33.01	47.00	-13.99	QP

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



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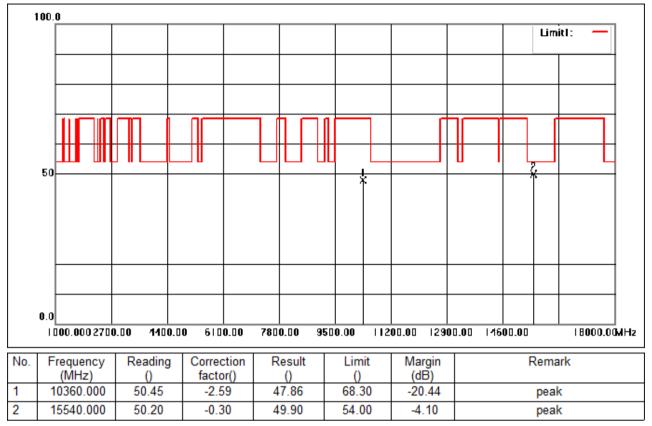
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Above 1GHz

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



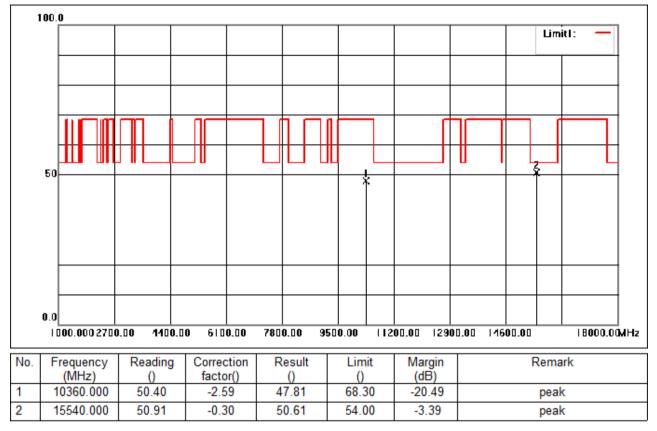


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Mode:d; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



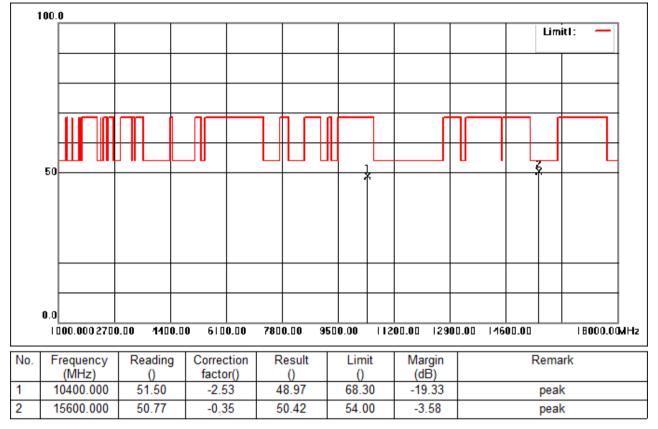
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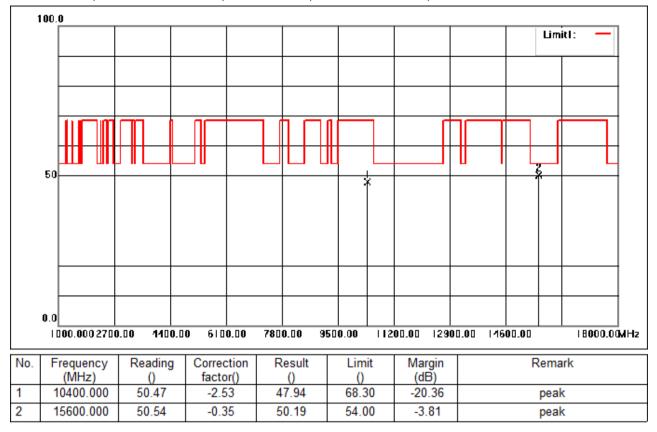


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Mode:d; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:middle



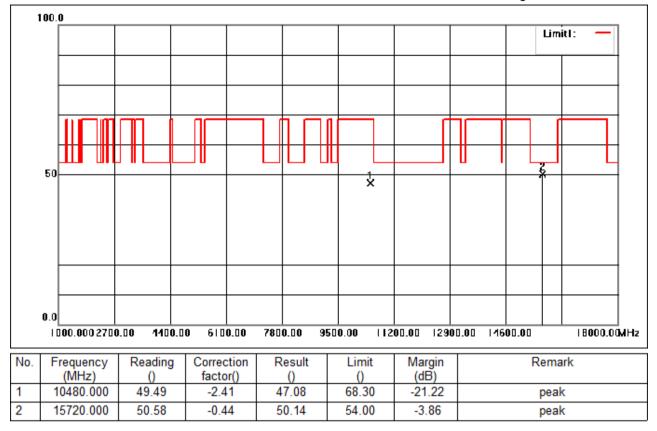
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Mode:d; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High

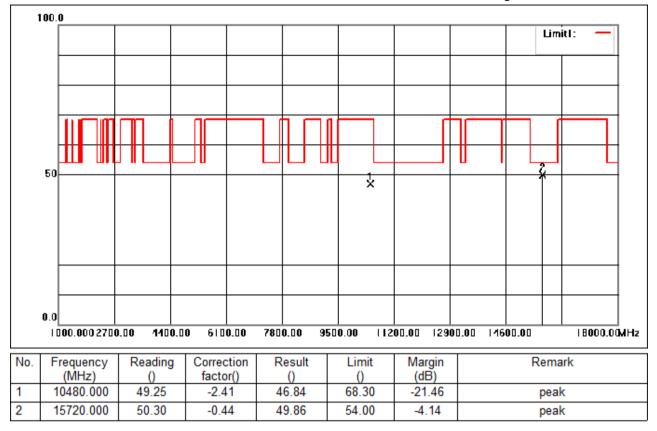


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Mode:d; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High

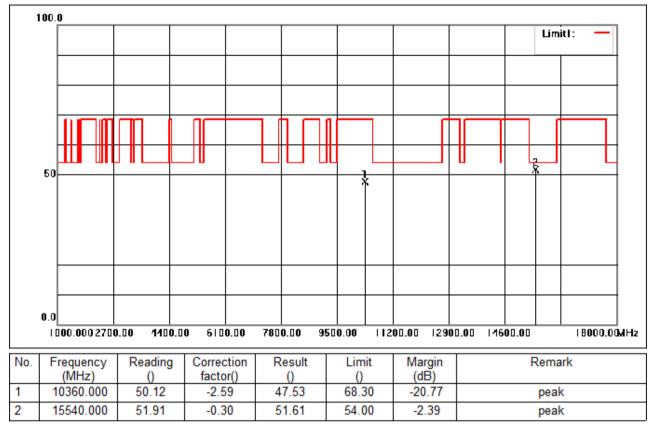


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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low

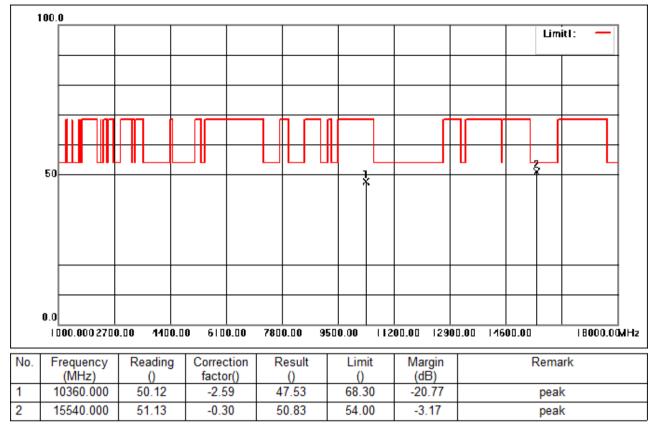


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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



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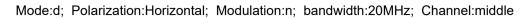
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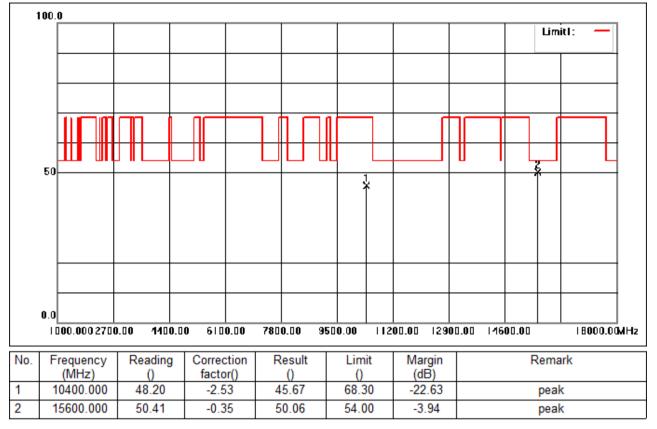
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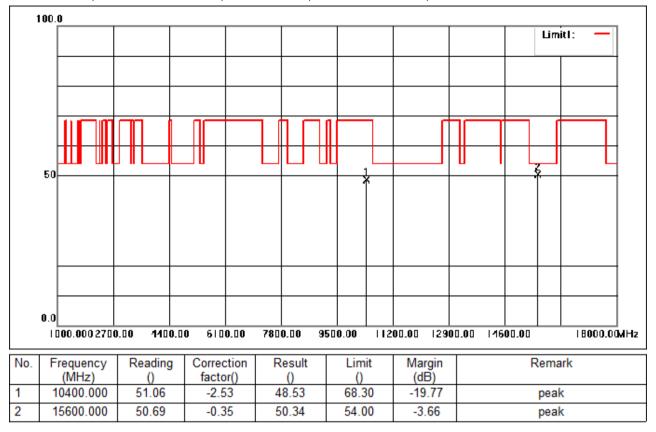


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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle

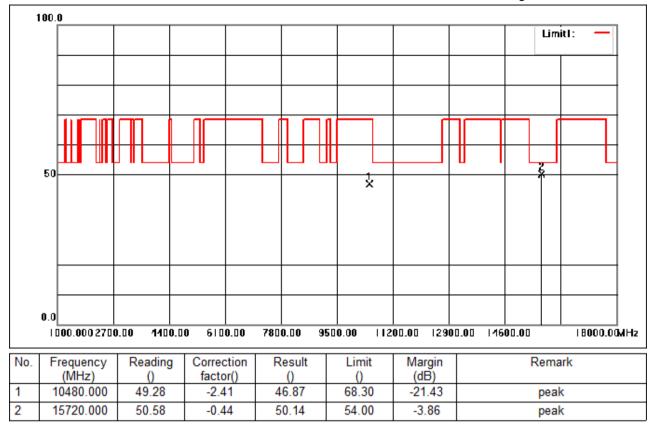


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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High

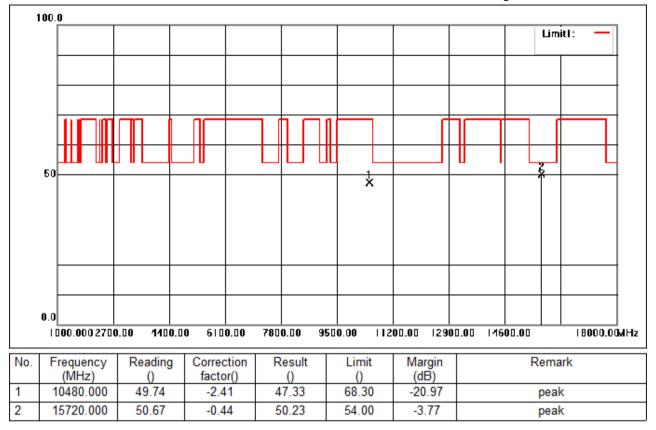


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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



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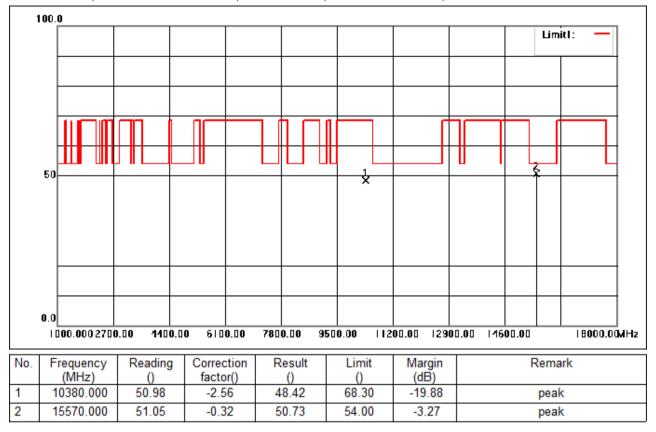
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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low

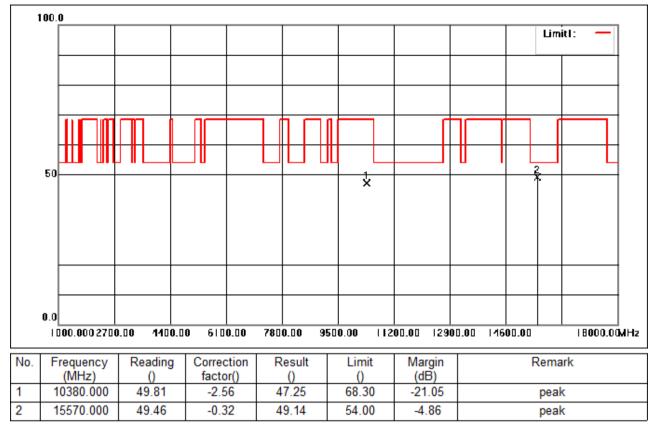


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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low

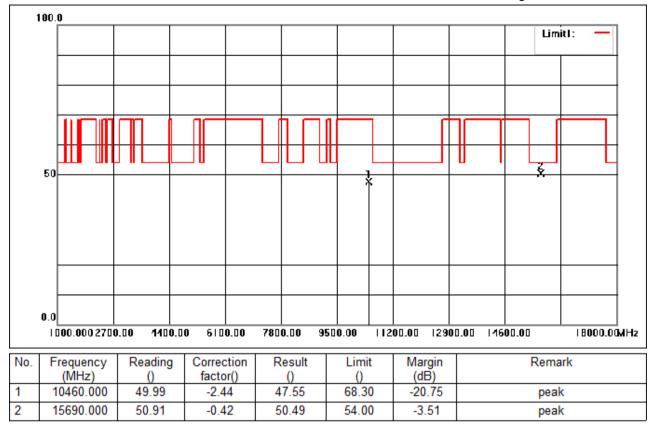


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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High

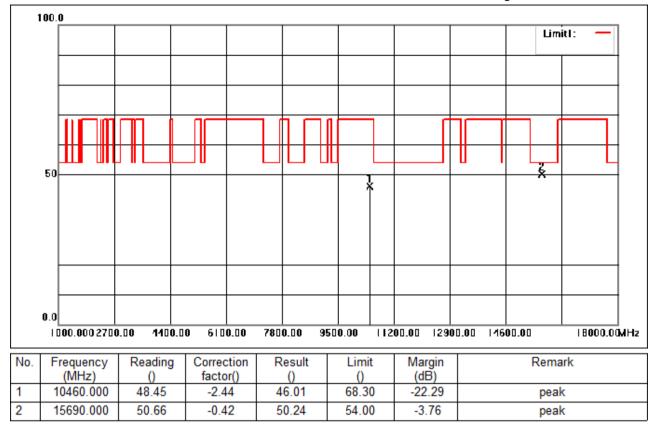


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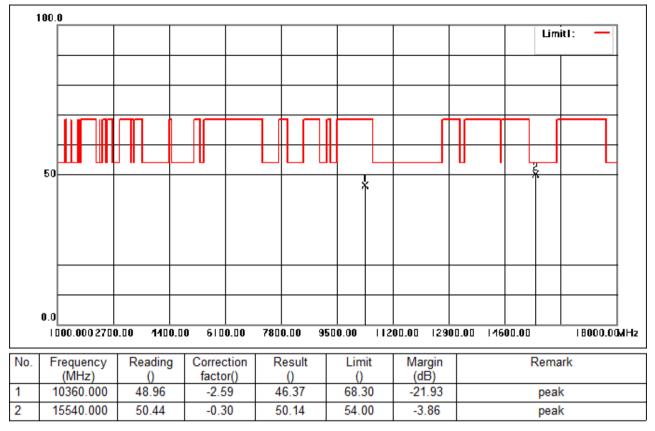
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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low

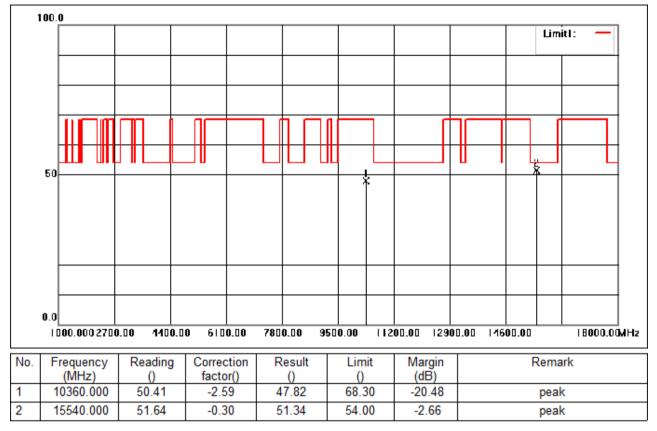


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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low

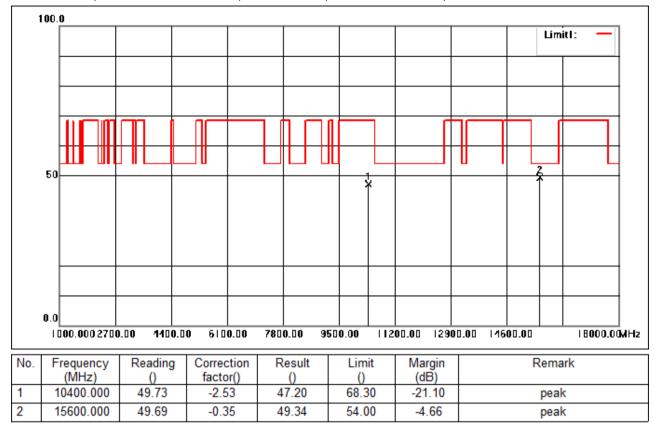


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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:middle

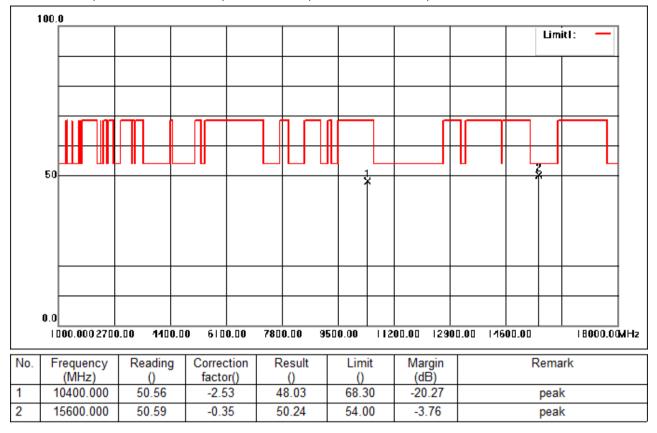


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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:middle

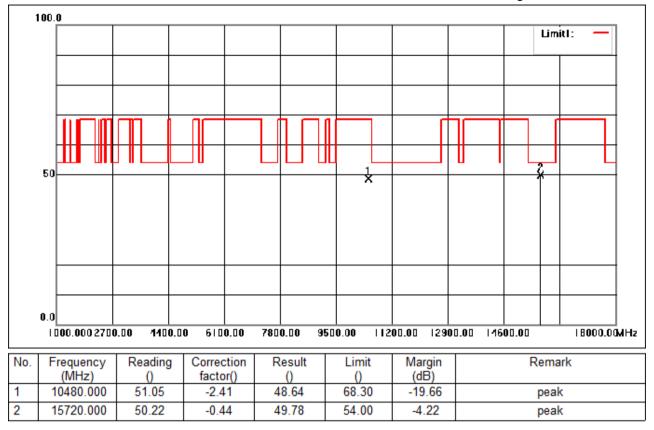


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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High

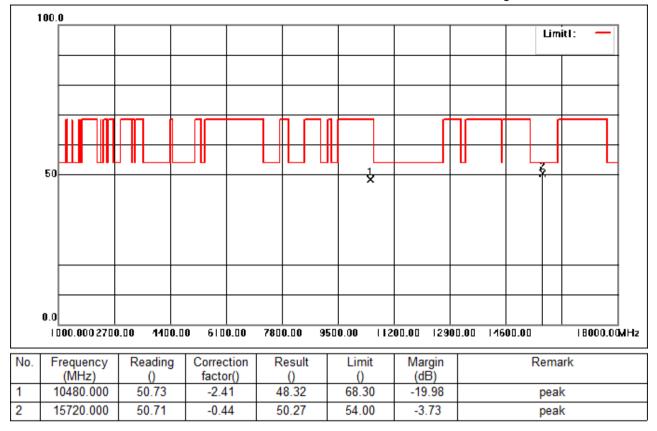


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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High

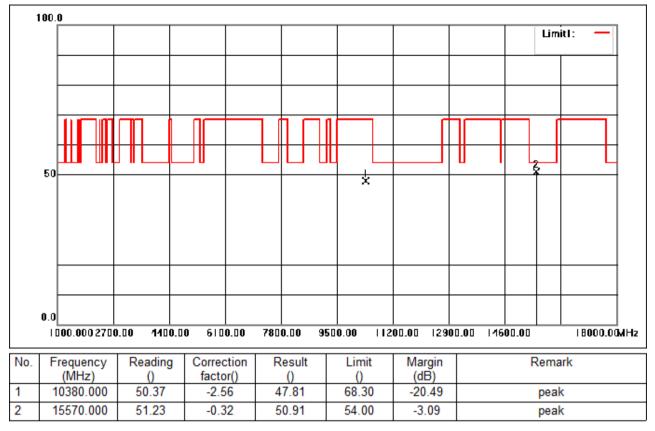


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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



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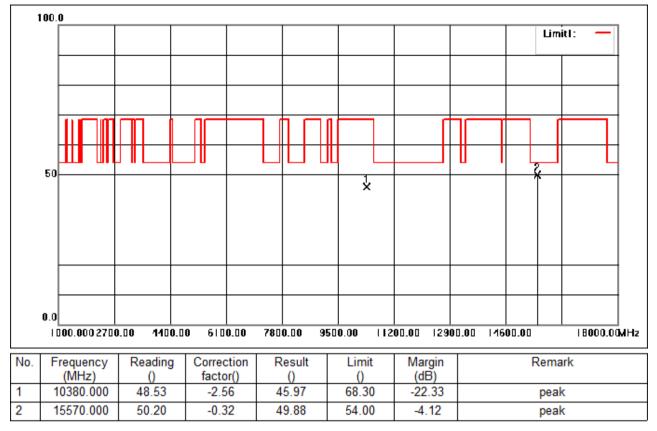
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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low

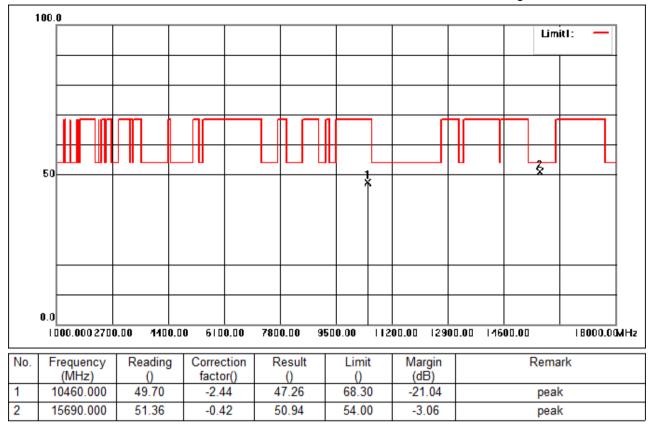


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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High

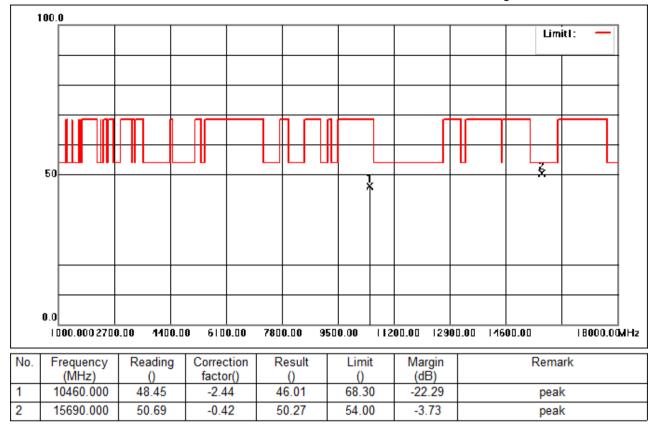


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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High

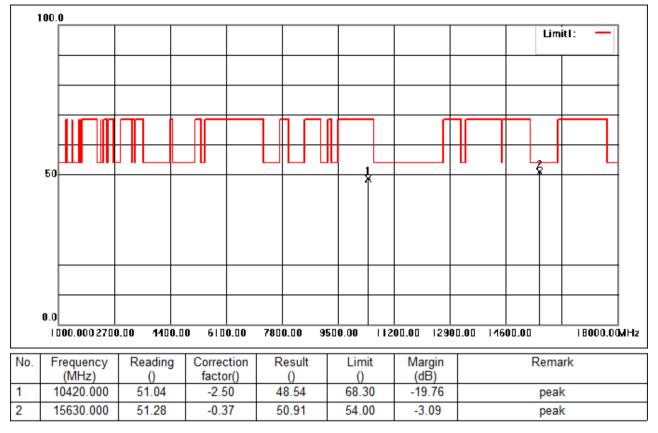


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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:middle

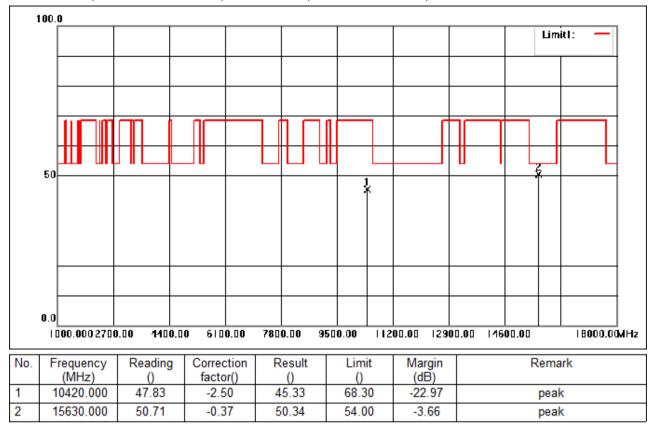


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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:middle

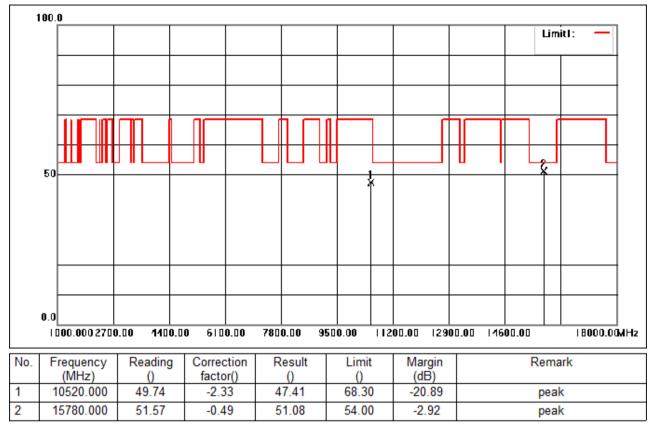


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Mode:e; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low

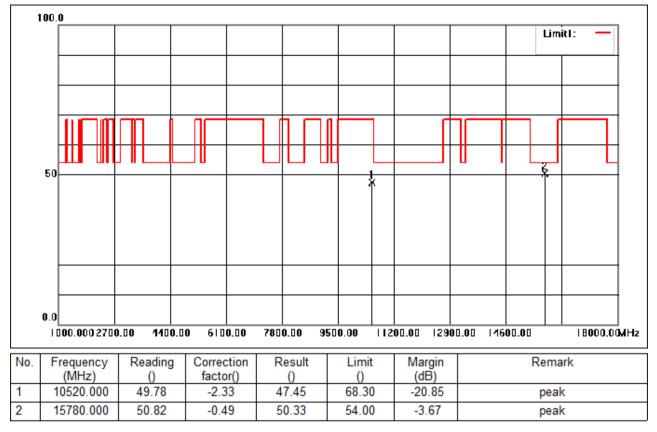


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Mode:e; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low

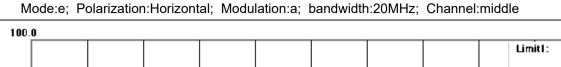


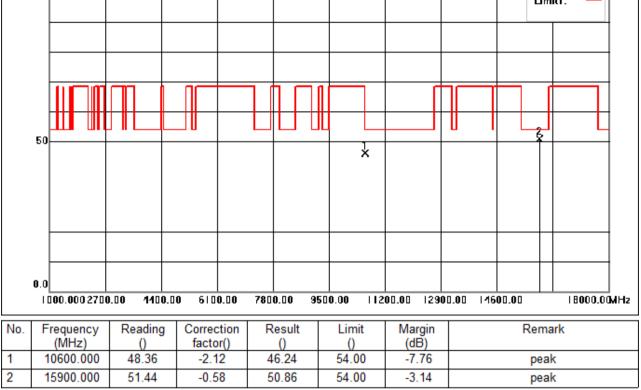
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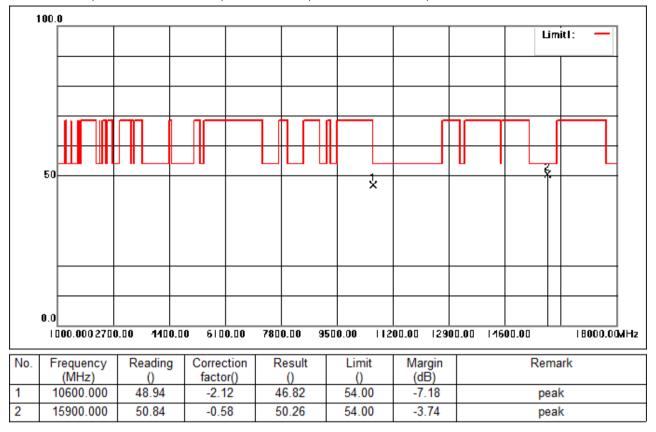


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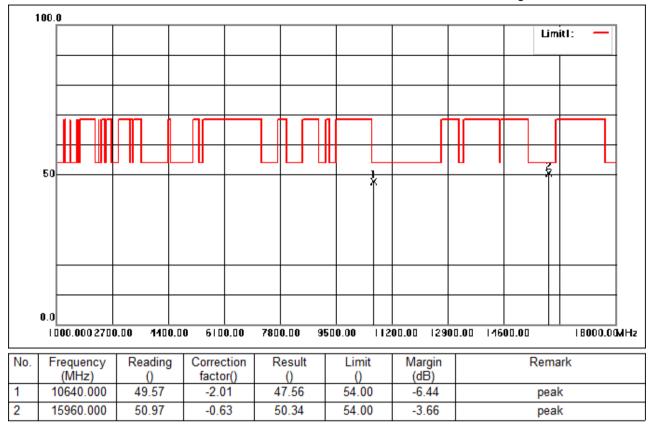
Mode:e; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:middle



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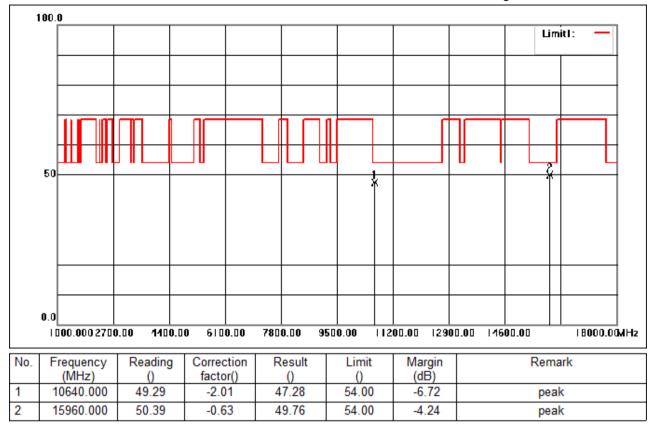
Mode:e; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High



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

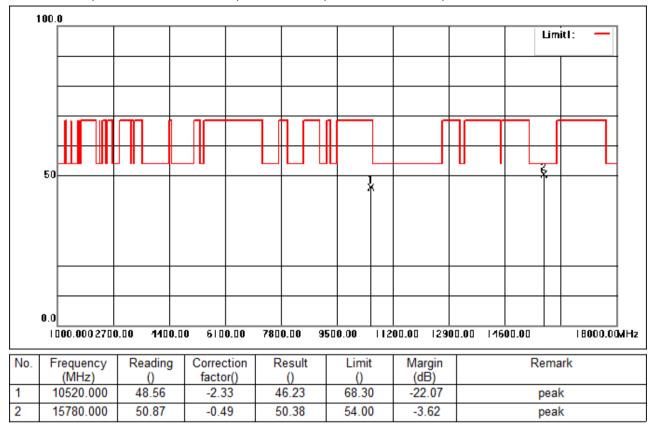


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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low

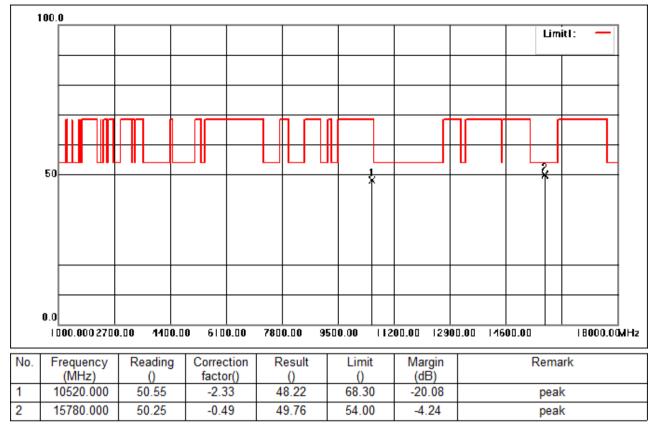


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Report No.: SHEM200900737903 Page: 138 of 224



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

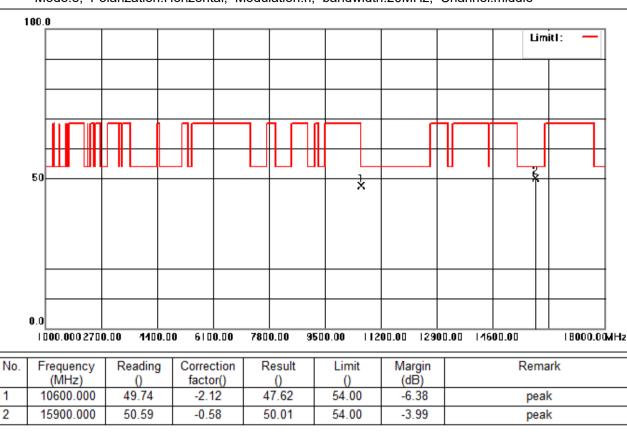


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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle

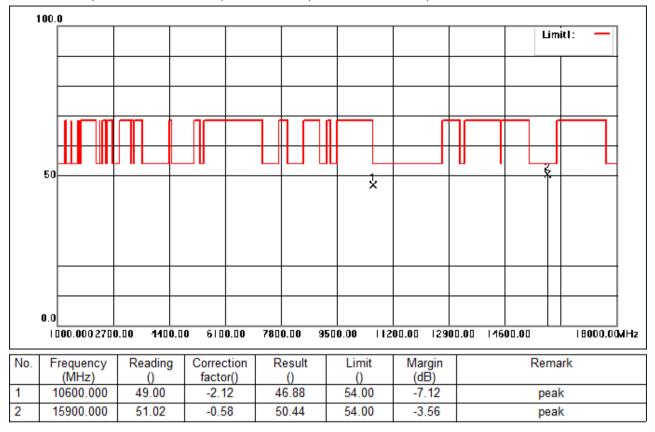


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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle



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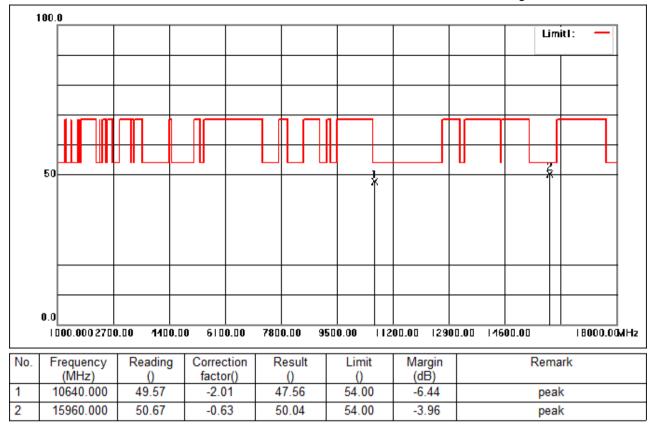
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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High

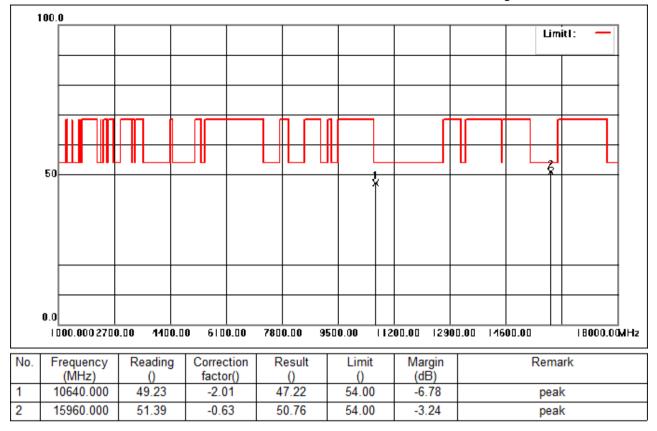


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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High

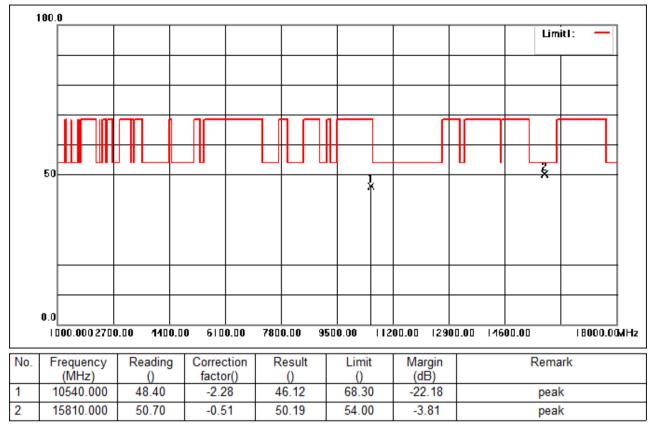


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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



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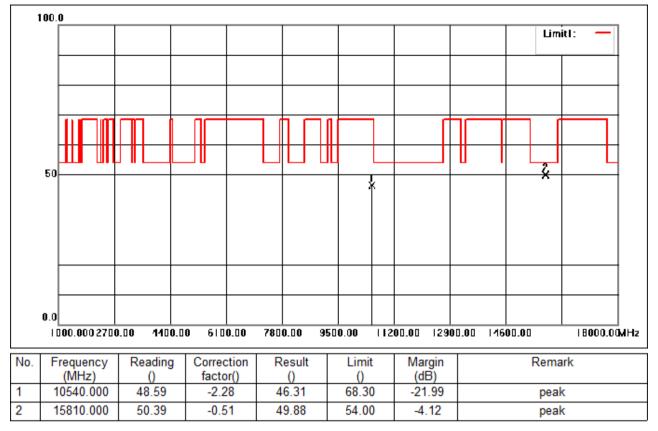
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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low

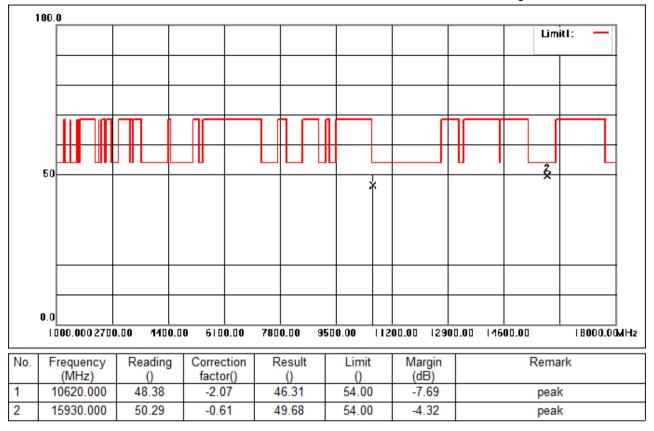


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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High

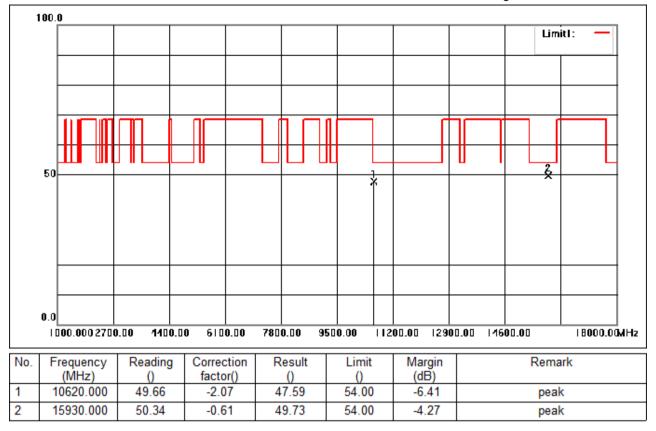


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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High

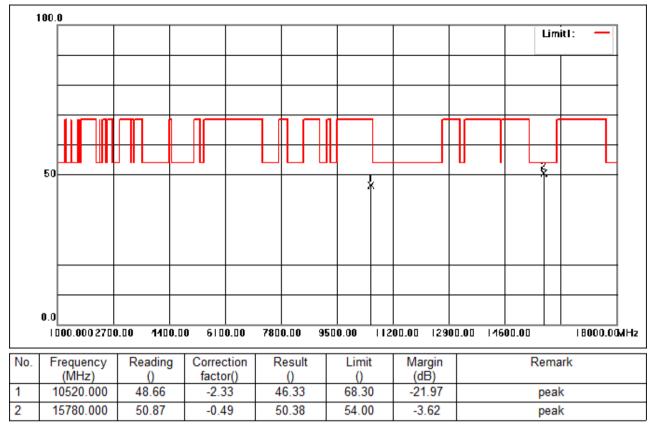


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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low

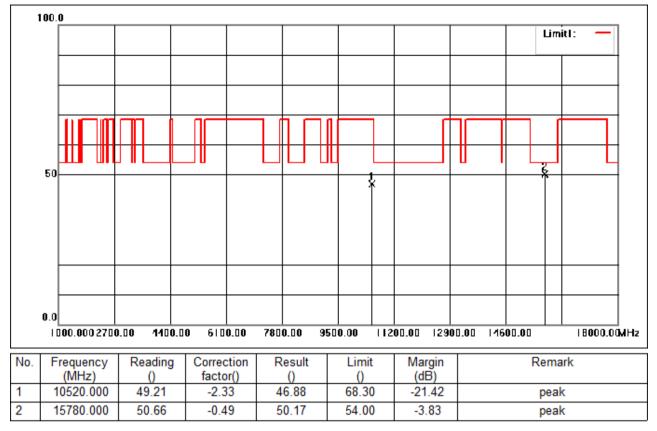


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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low



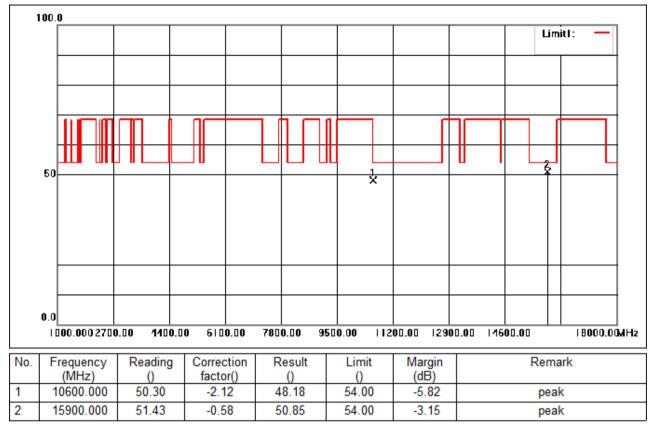
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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:middle



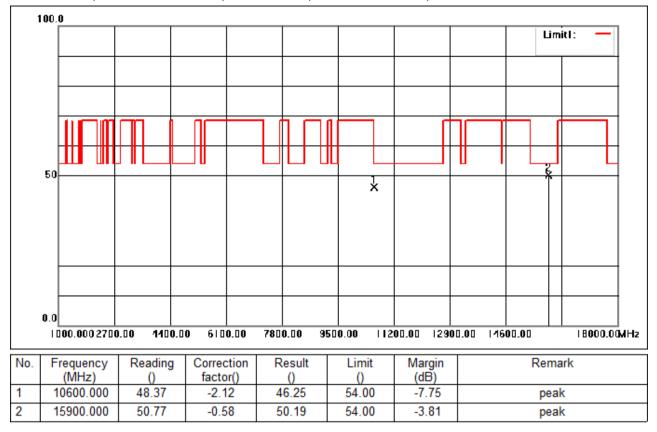
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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:middle

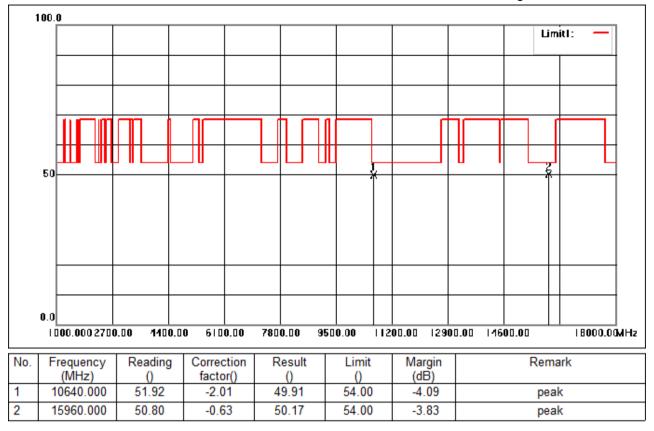


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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High



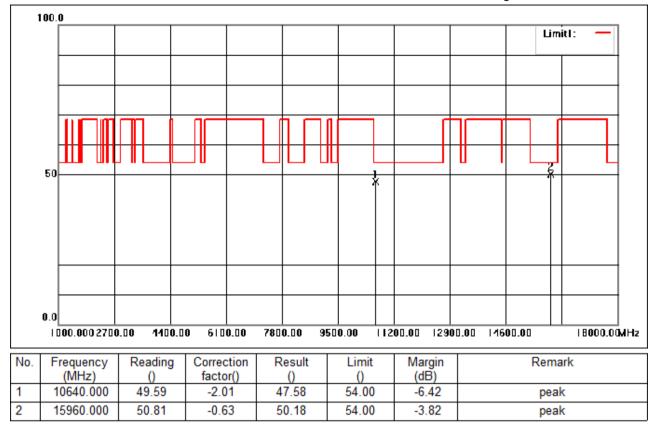
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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High

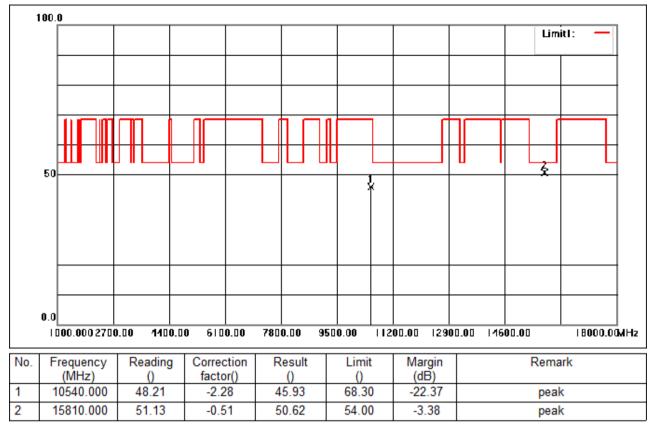


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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low

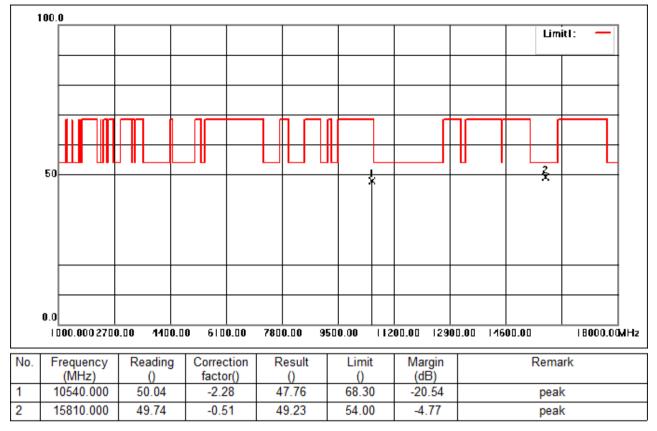


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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



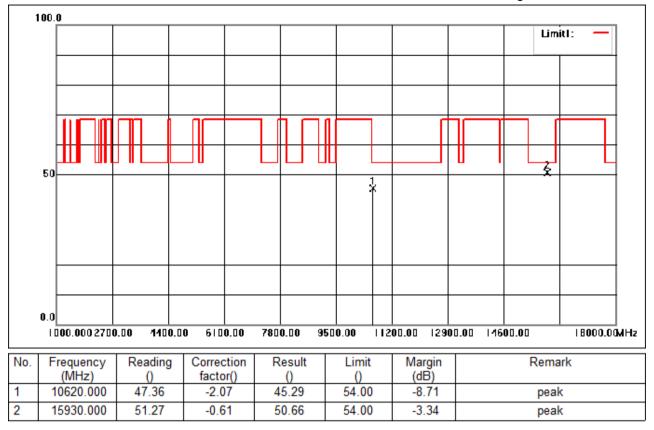
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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High

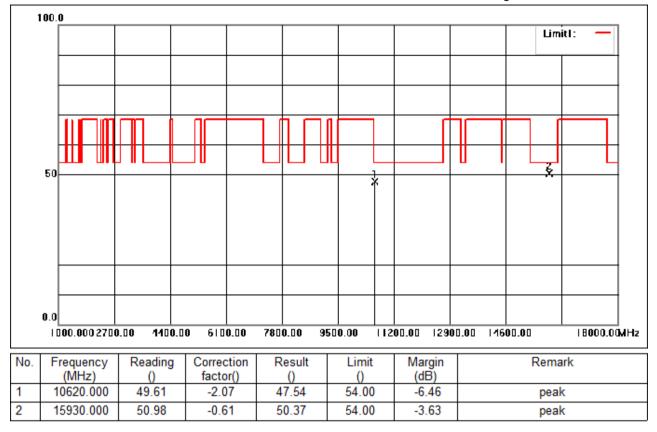


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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High

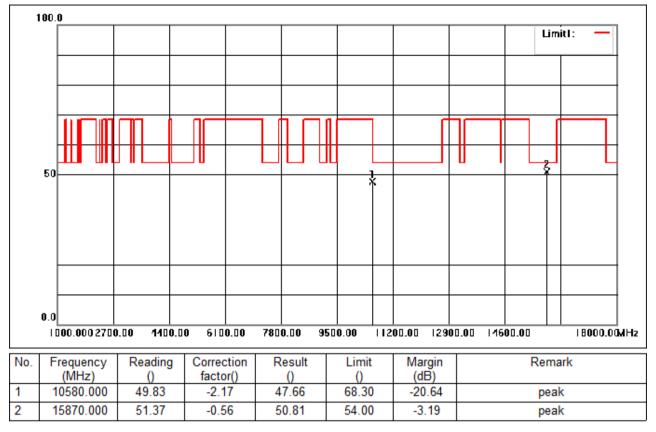


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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:middle

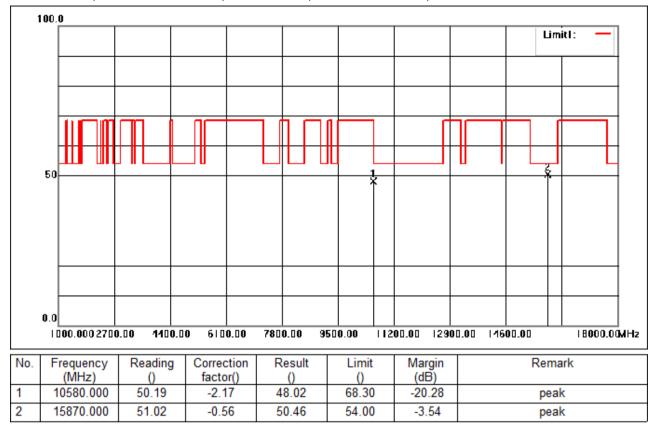


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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:middle

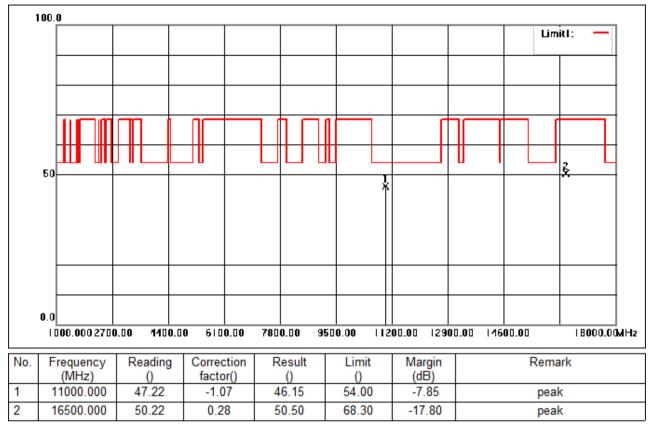


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Mode:f; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low

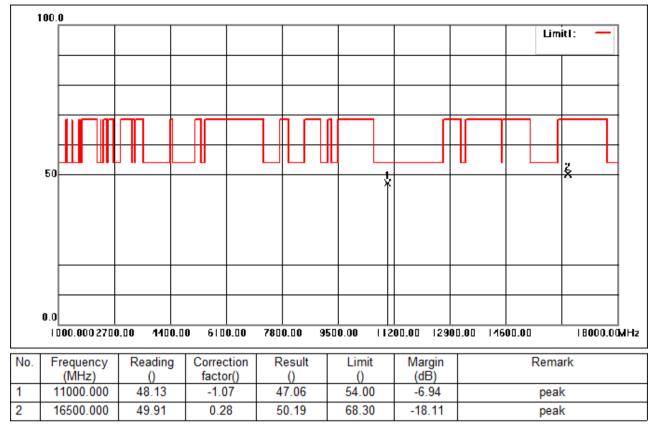


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Mode:f; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



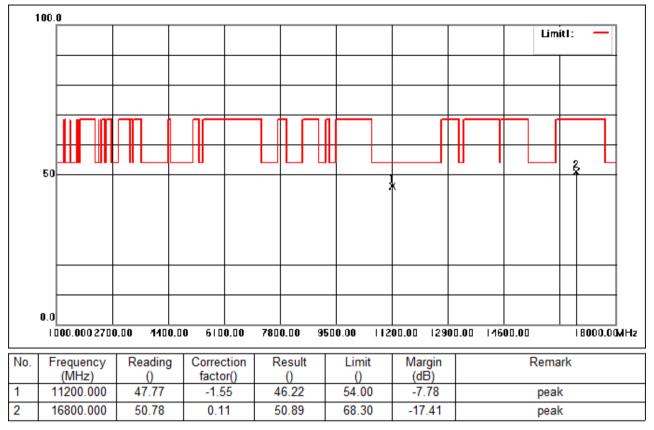
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Mode:f; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:middle

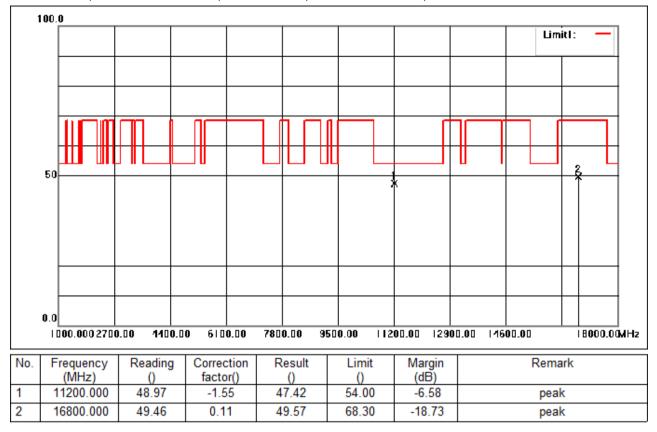


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Mode:f; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:middle

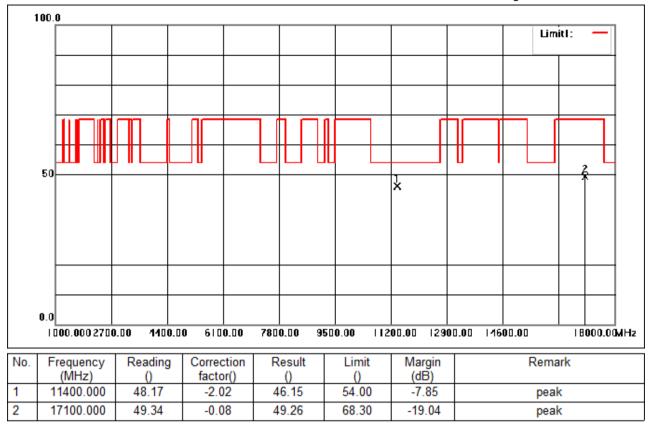


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Mode:f; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High

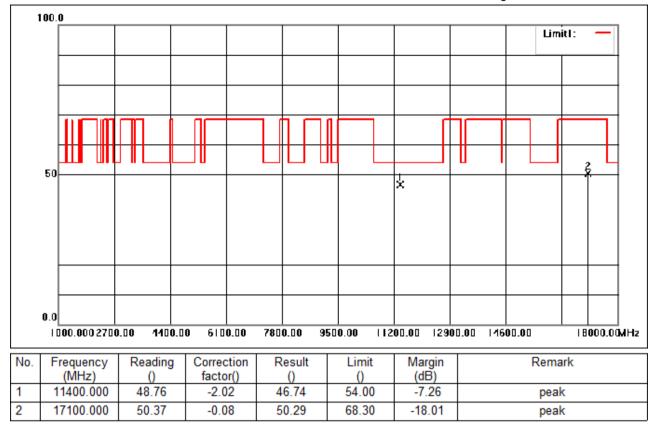


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Mode:f; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High



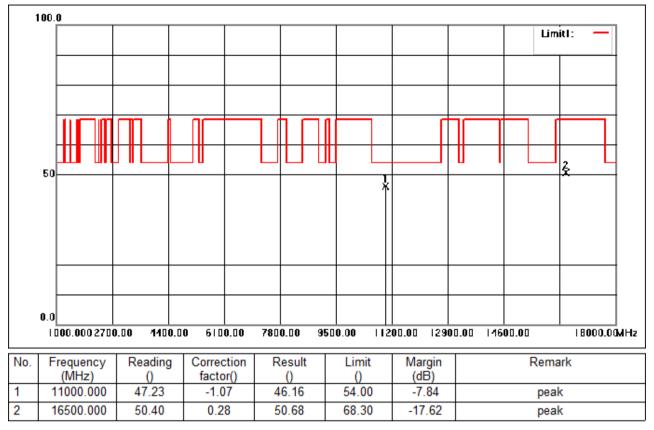
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Mode:f; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low

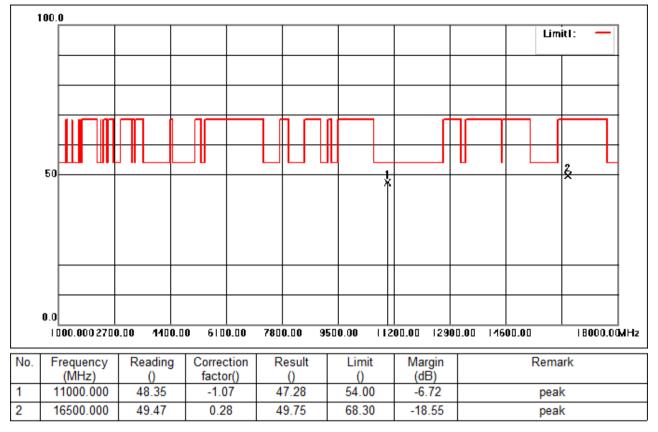


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Mode:f; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



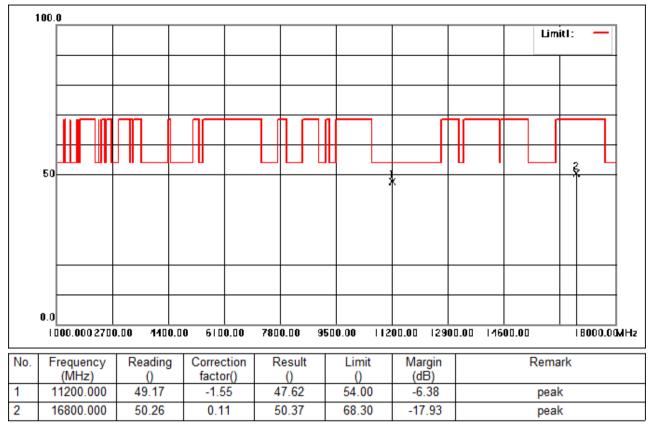
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Mode:f; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle



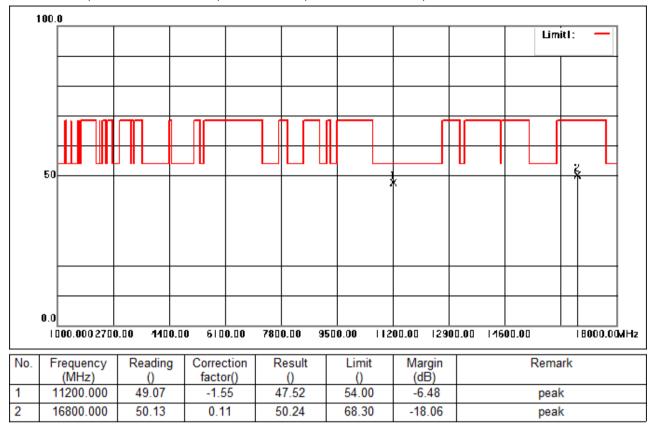
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Mode:f; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle



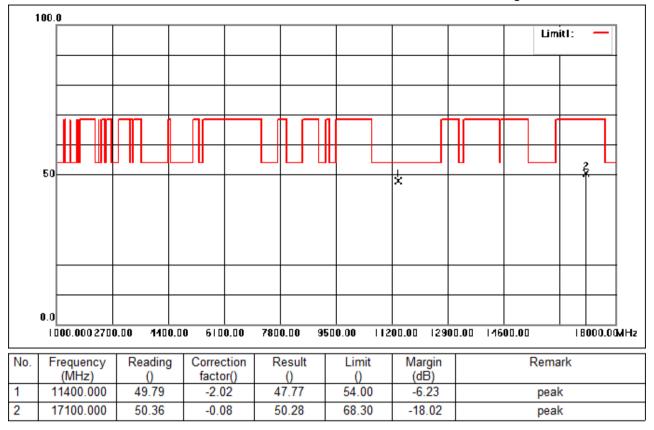
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Mode:f; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High

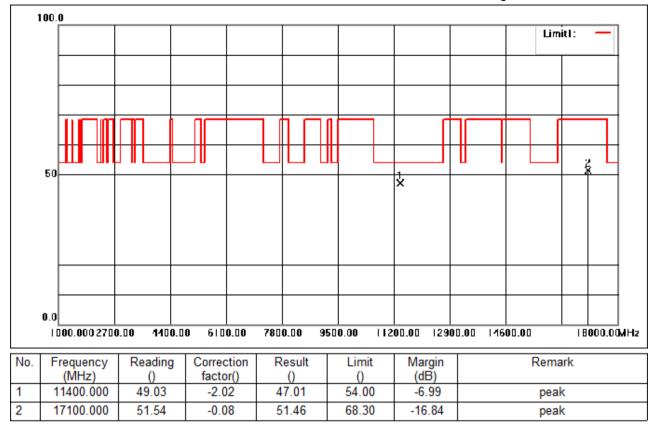


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Mode:f; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High

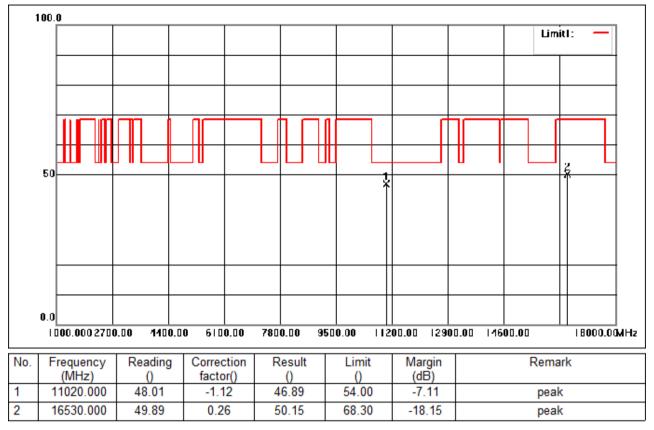


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Mode:f; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low

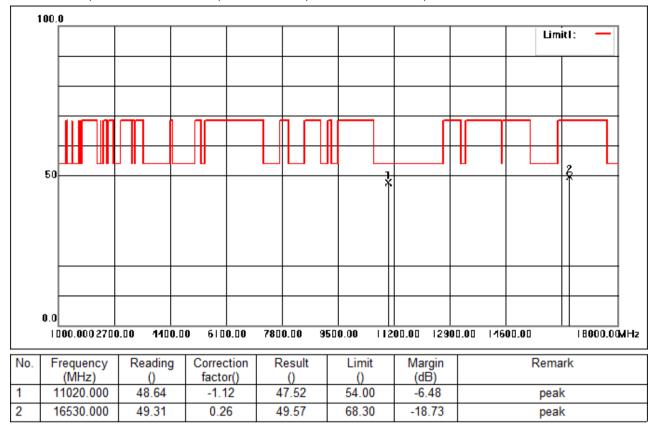


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Mode:f; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low

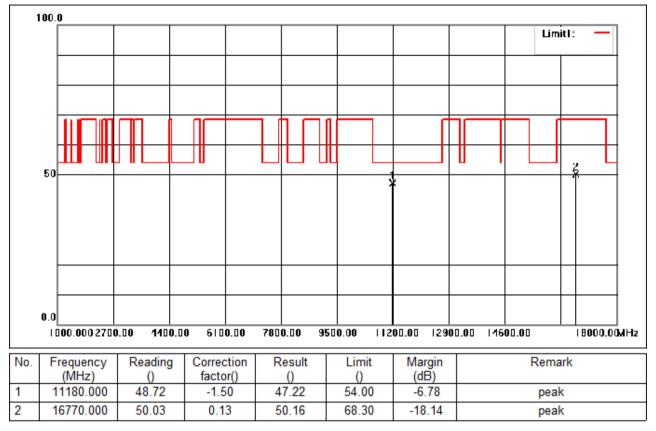


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Mode:f; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:middle

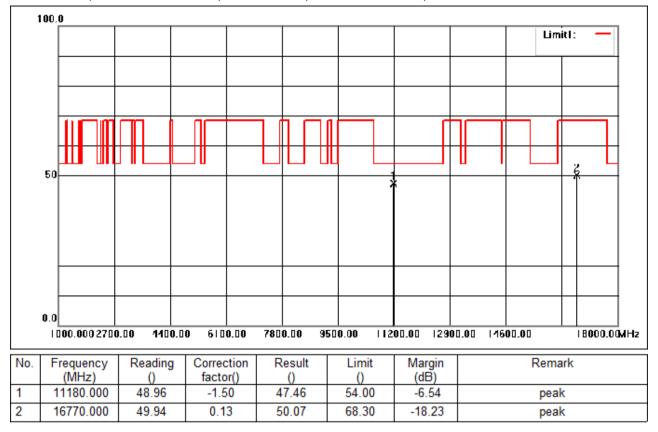


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Mode:f; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:middle

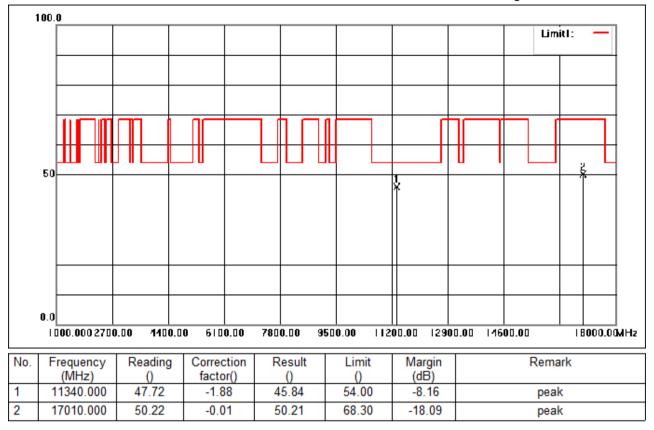


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Mode:f; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High

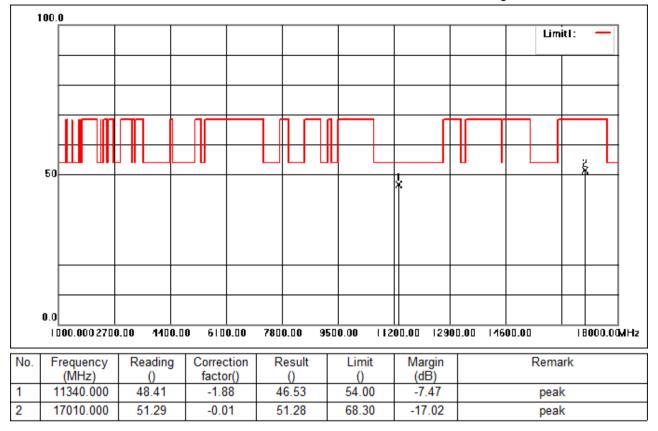


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Mode:f; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



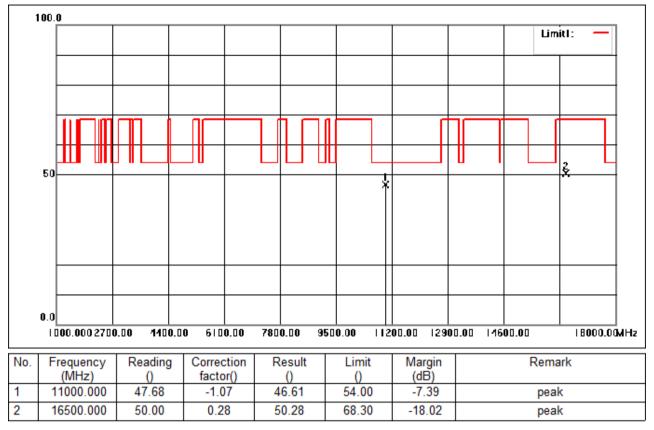
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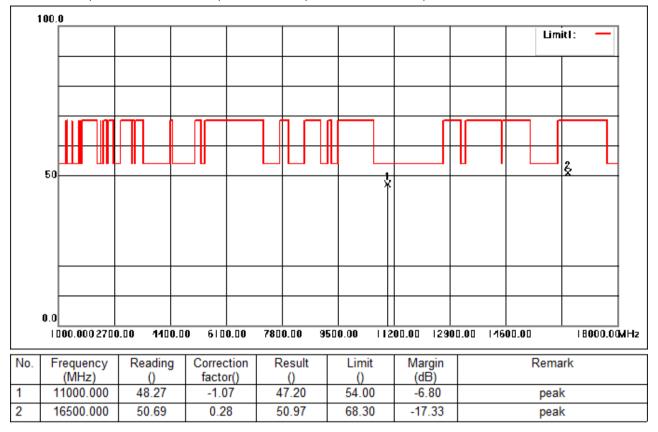


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Mode:f; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low

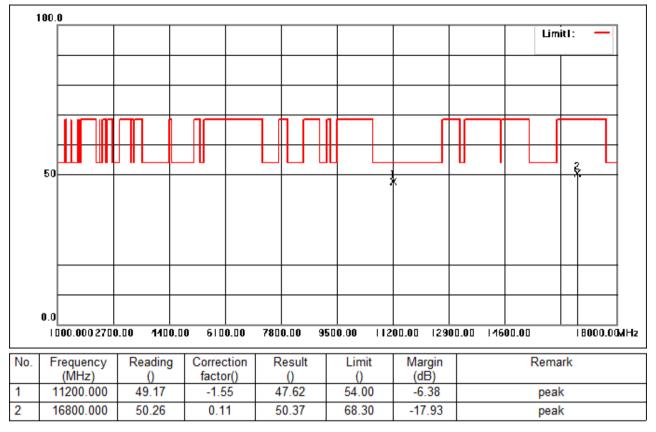


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Mode:f; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:middle

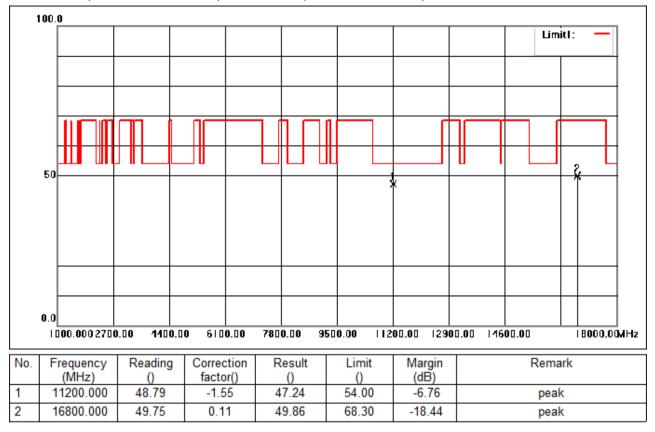


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Mode:f; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:middle

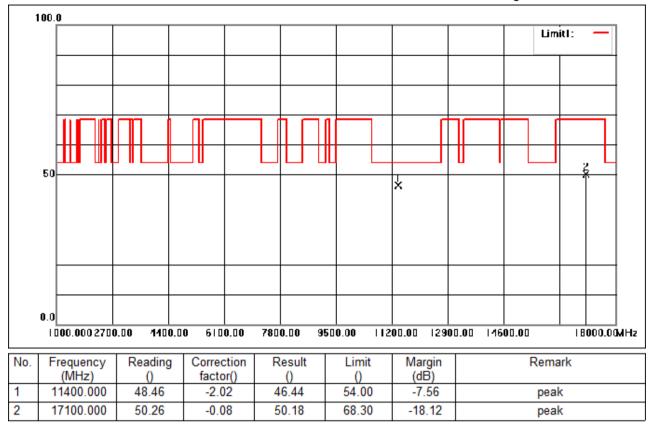


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Mode:f; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High



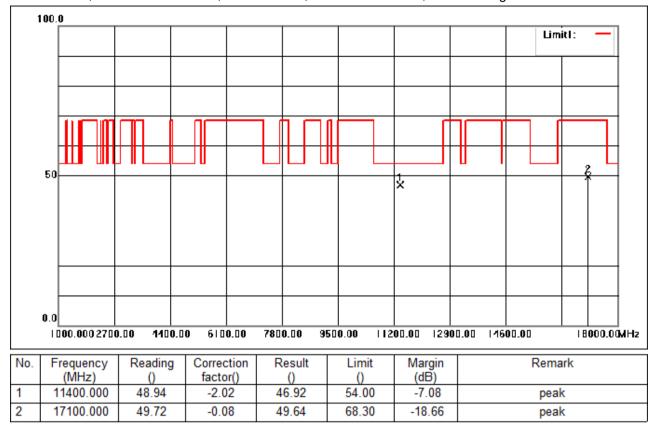
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Mode:f; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High

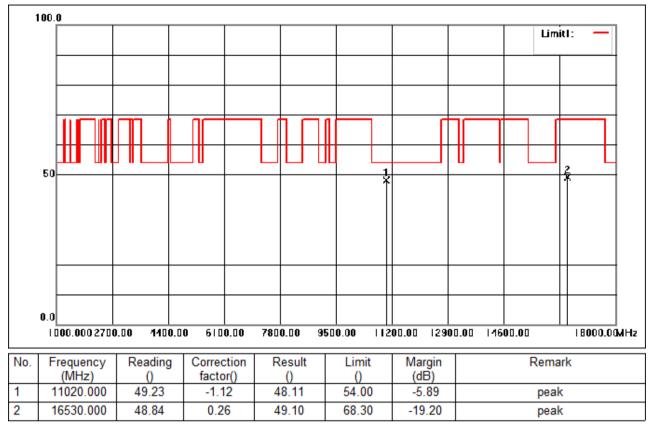


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Mode:f; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low

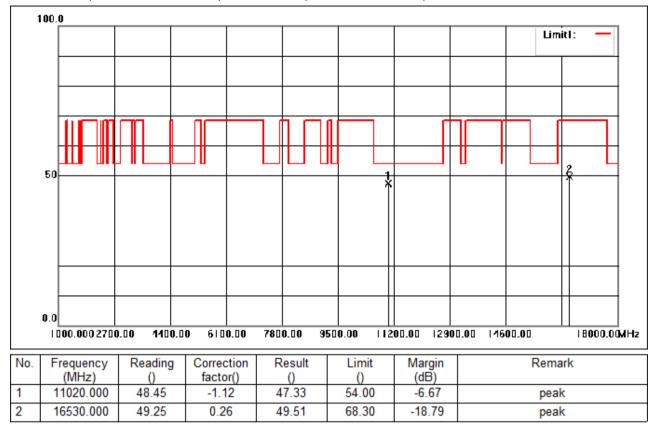


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Mode:f; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low

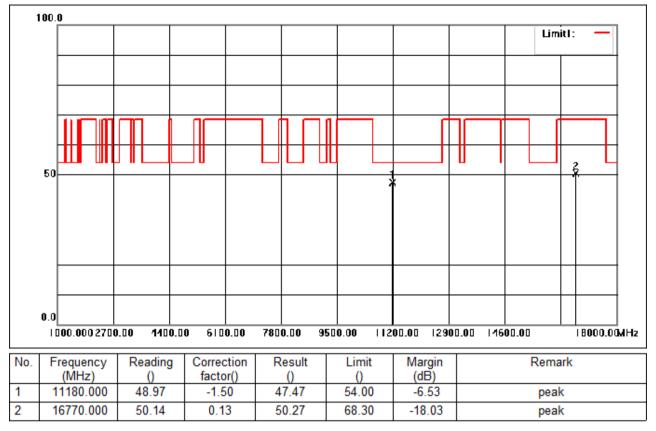


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Mode:f; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:middle

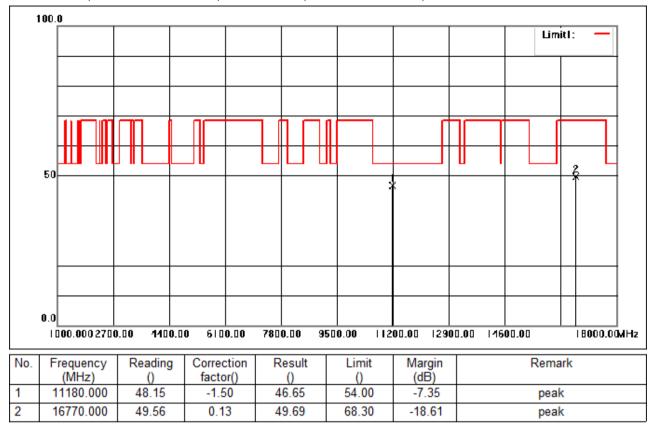


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Mode:f; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:middle

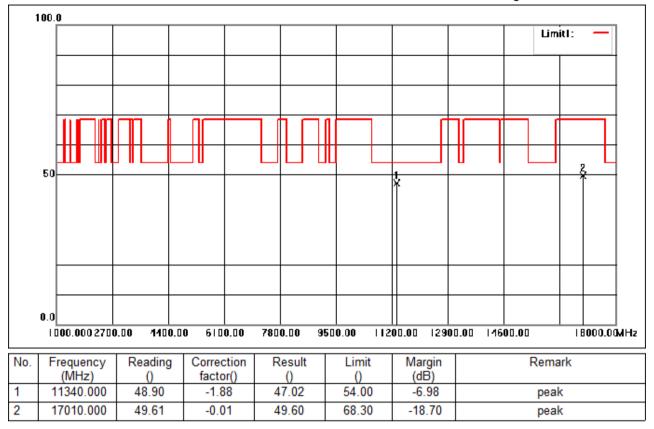


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Mode:f; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High

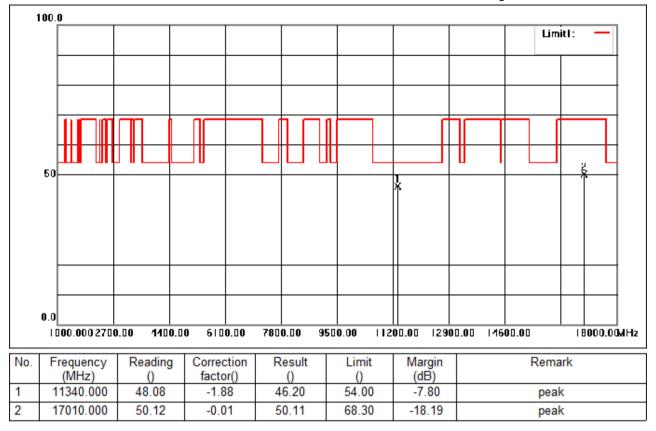


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Mode:f; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High

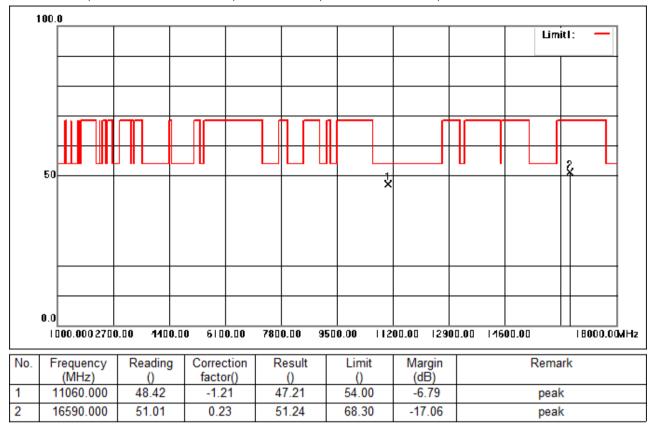


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Mode:f; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low

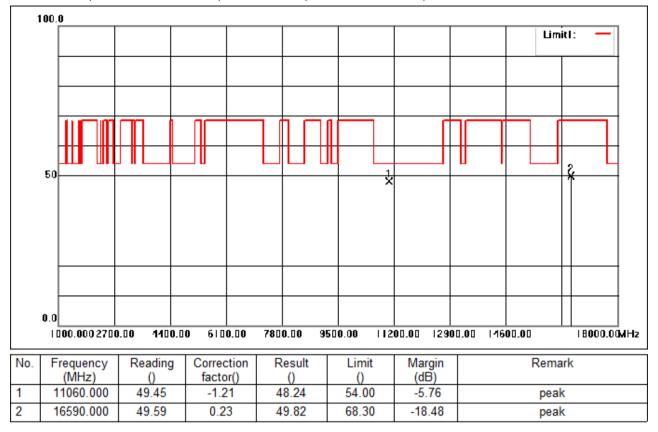


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Mode:f; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low

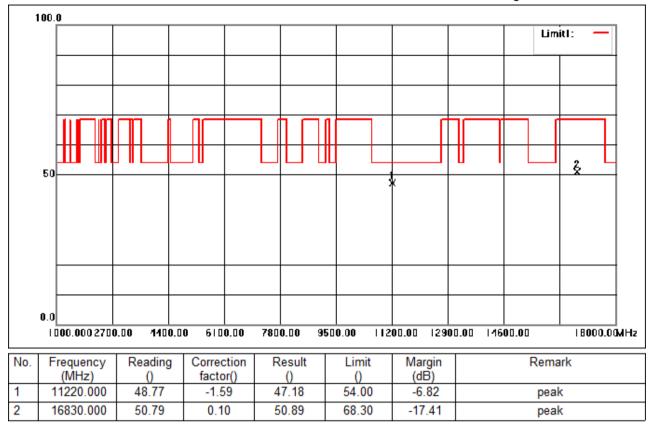


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Mode:f; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:High

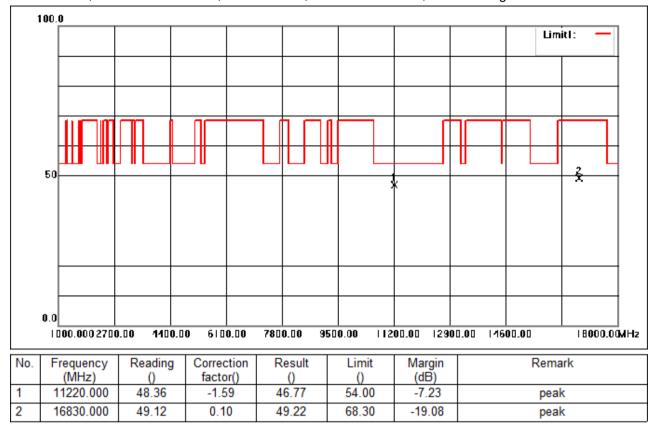


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Mode:f; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:High

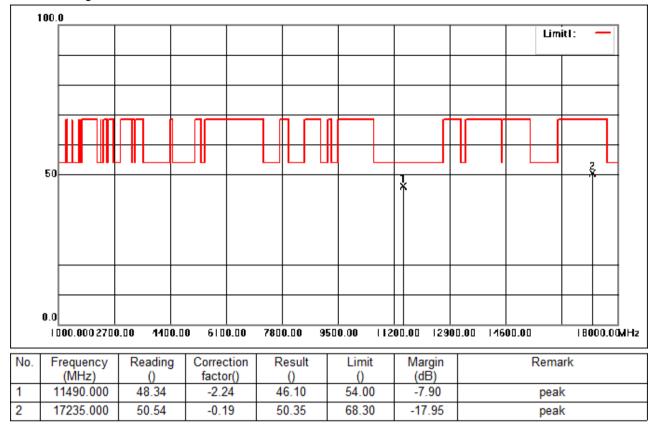


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Mode:g; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



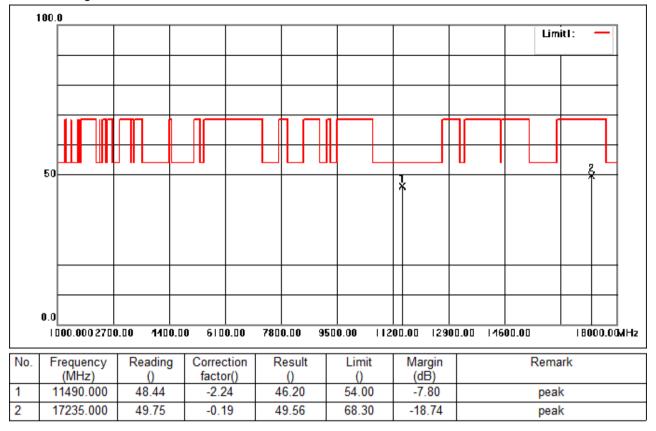
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Mode:g; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



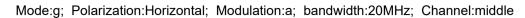
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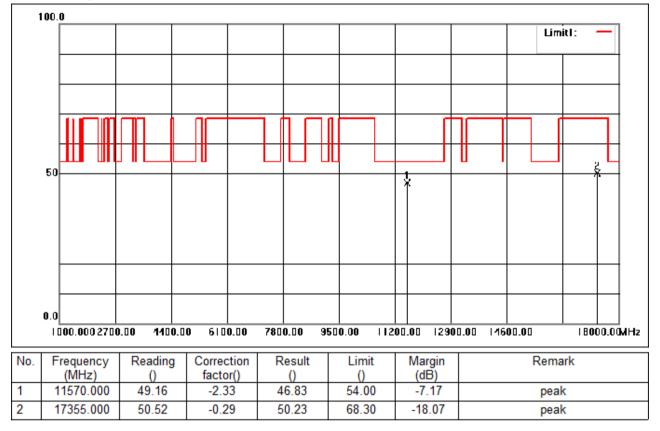
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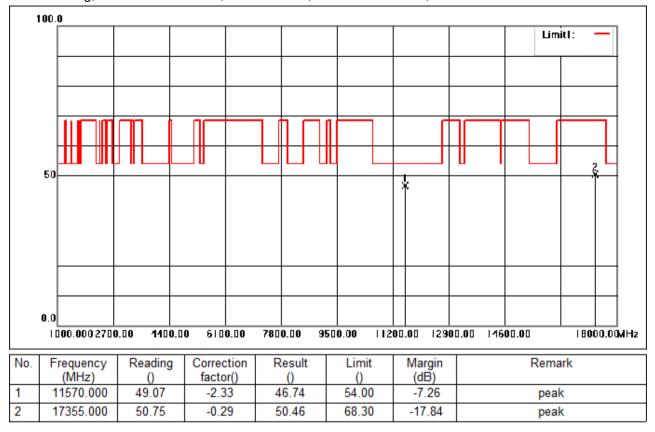


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Mode:g; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:middle



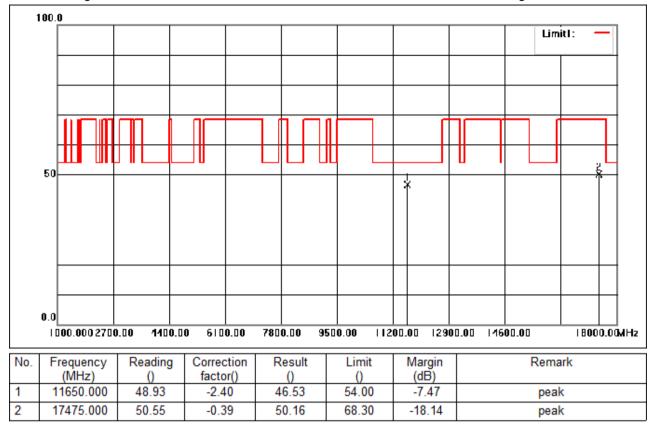
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Mode:g; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High

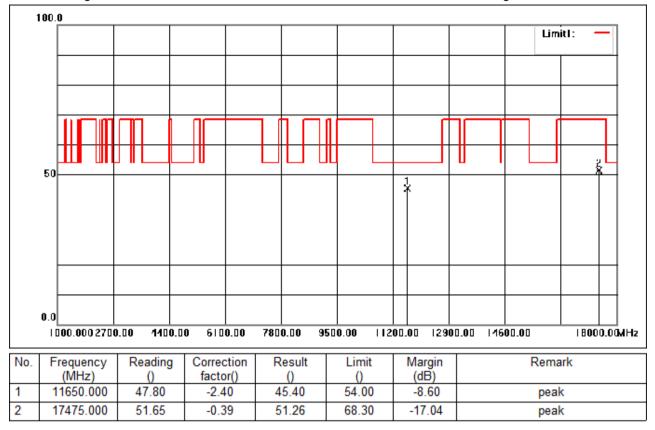


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Mode:g; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High

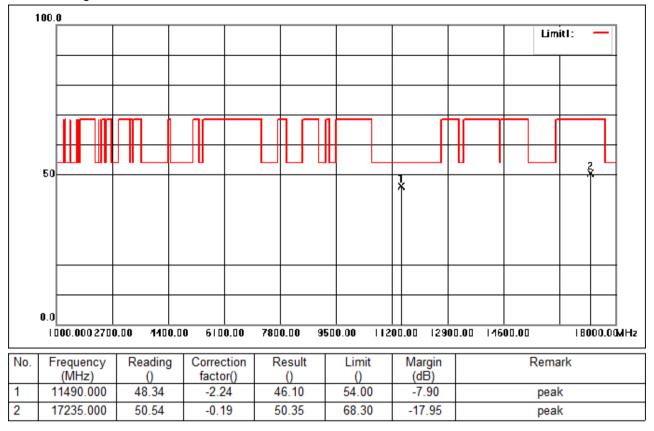


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Mode:g; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low

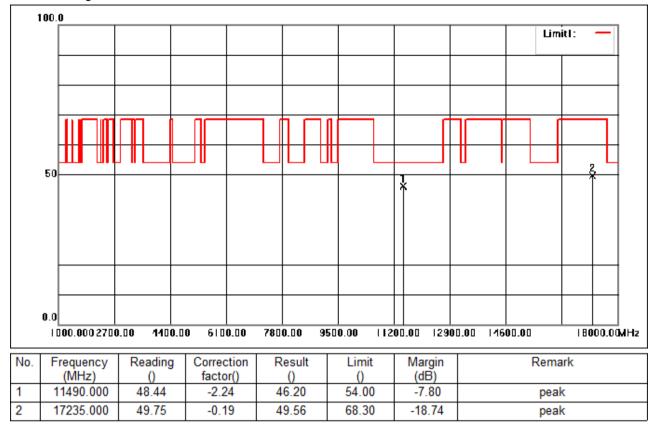


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Mode:g; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low

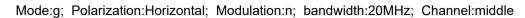


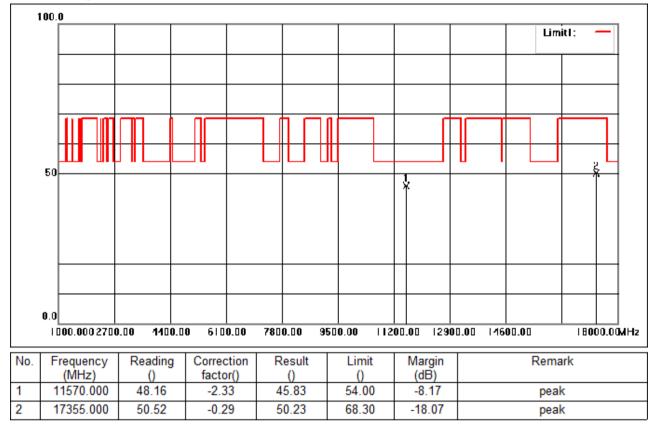
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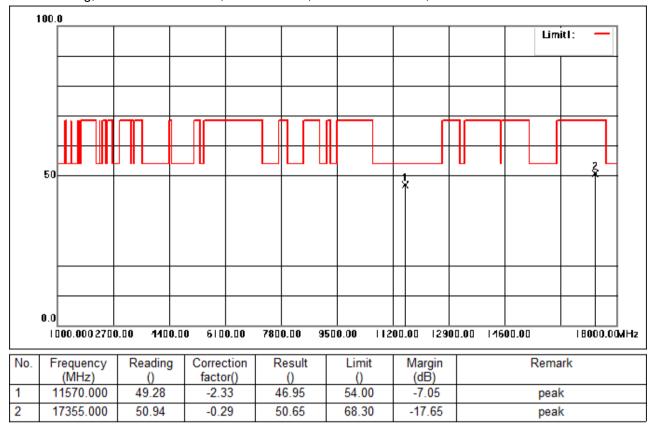


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Mode:g; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle



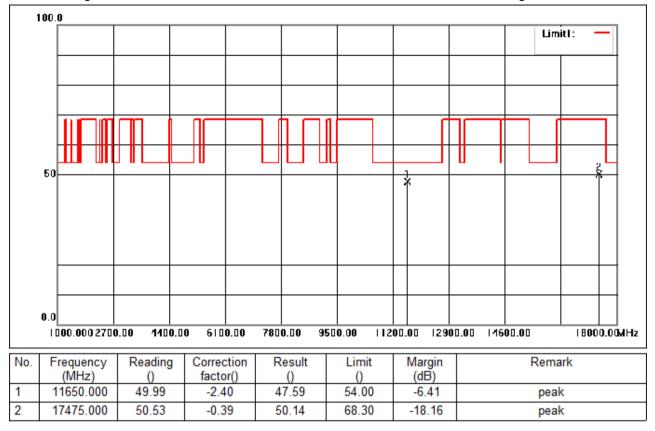
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Mode:g; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High

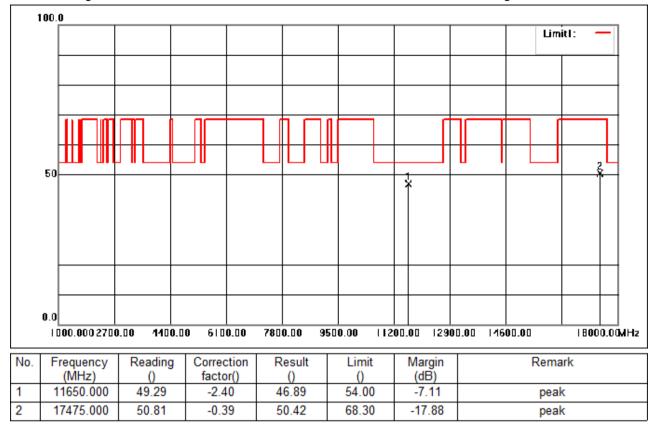


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Mode:g; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High

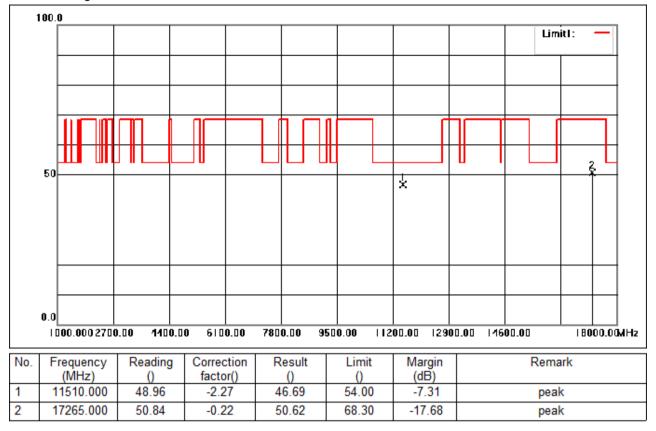


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Mode:g; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low

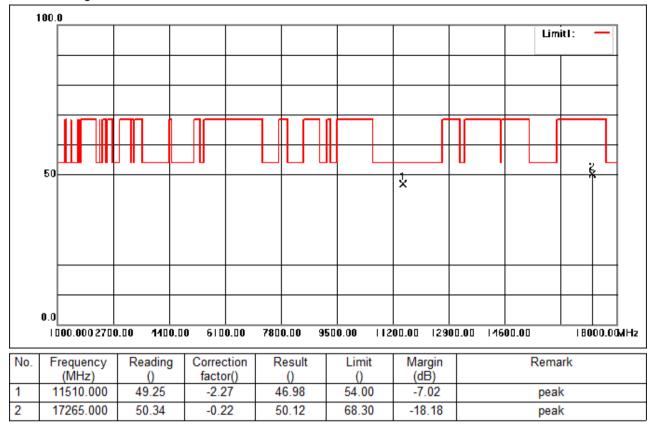


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Mode:g; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



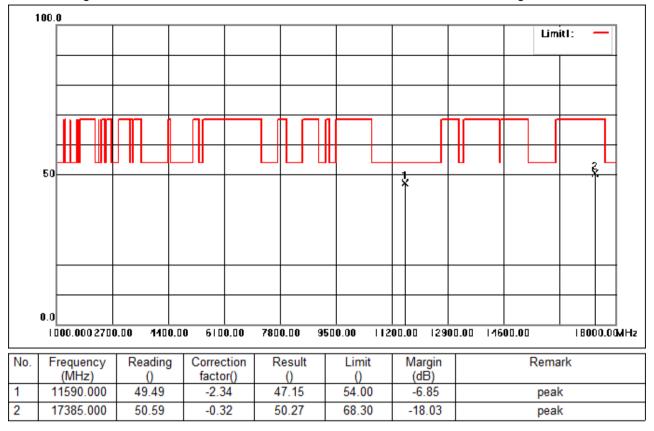
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Mode:g; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High

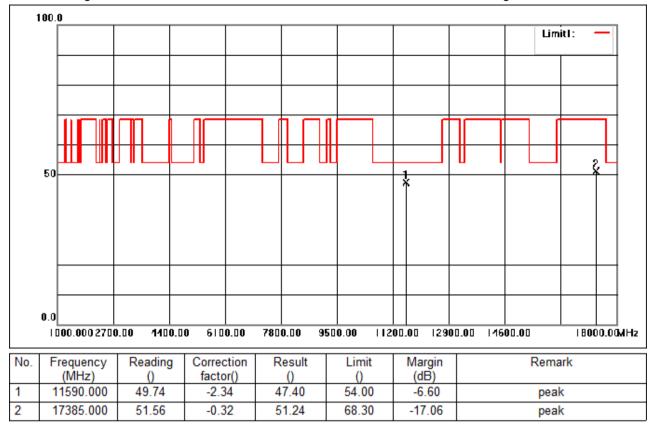


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Mode:g; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



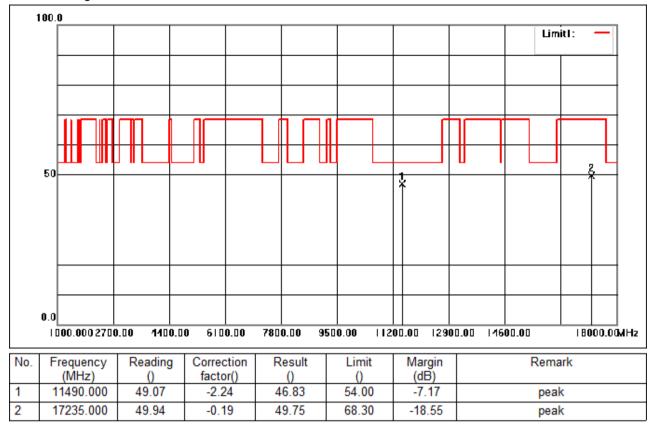
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Mode:g; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low



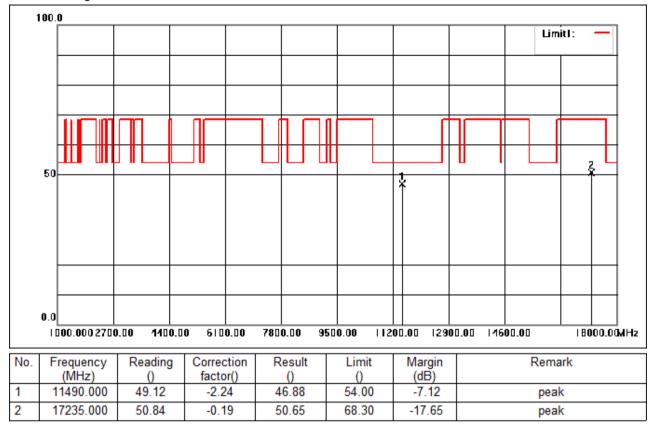
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Mode:g; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low

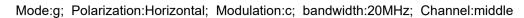


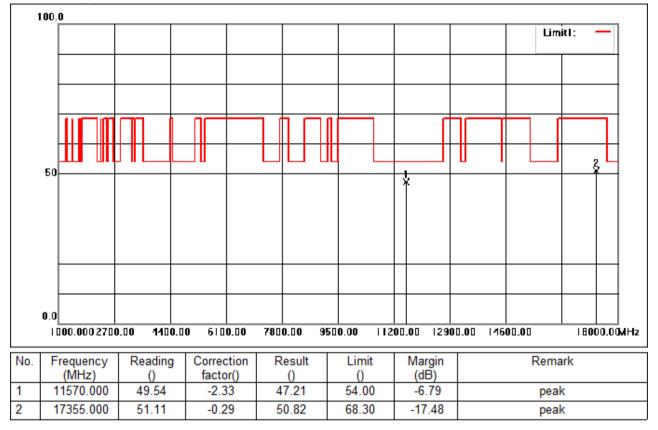
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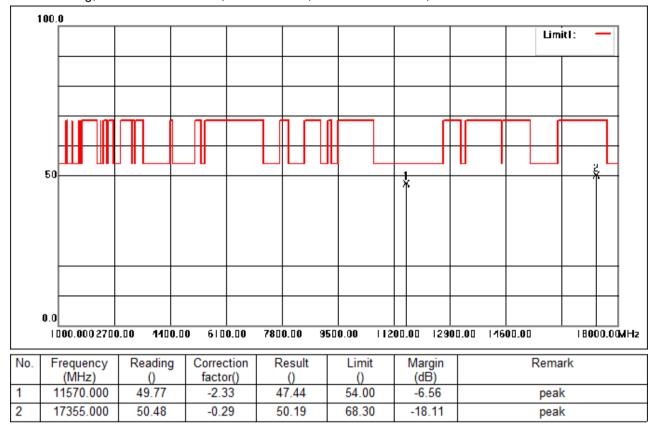


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Mode:g; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:middle

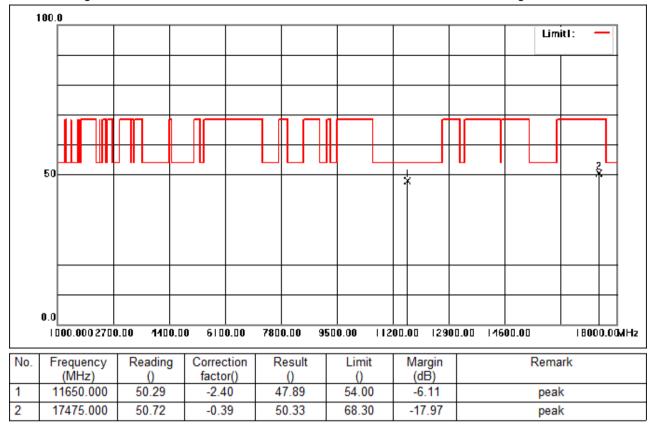


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Mode:g; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High

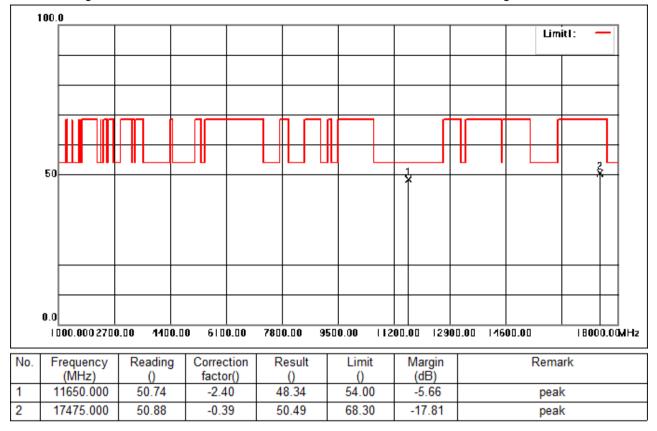


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Mode:g; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High

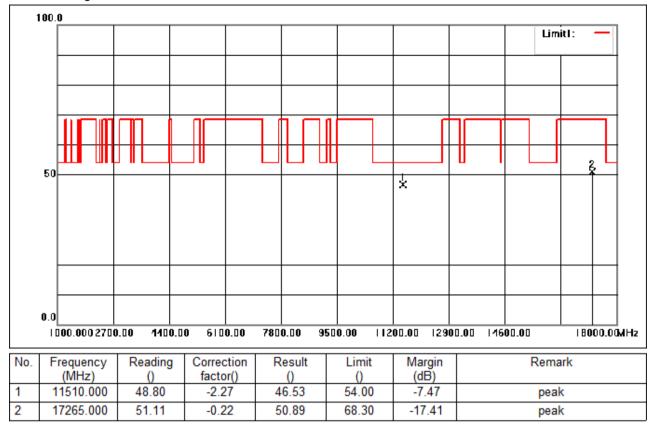


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Mode:g; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low

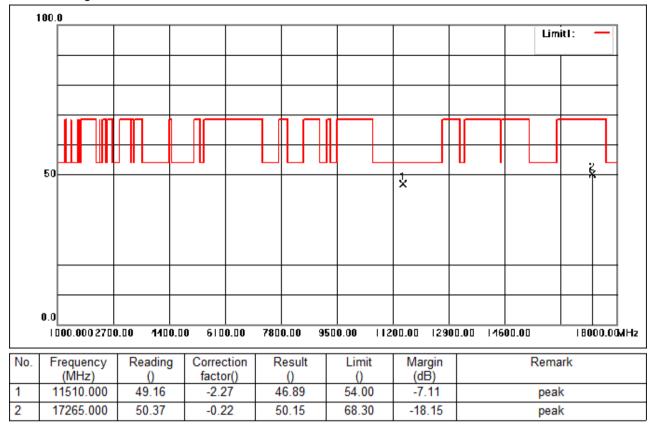


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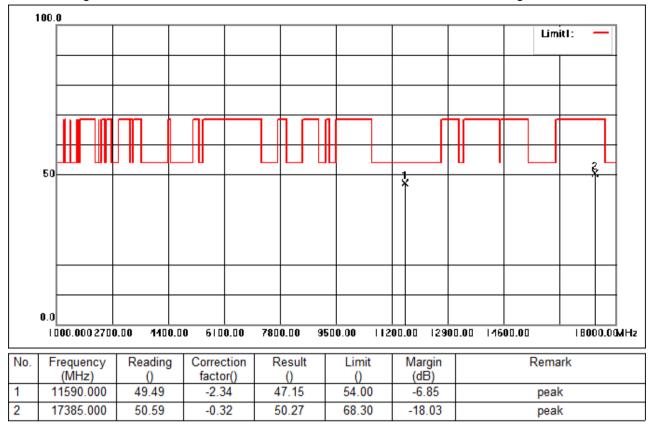


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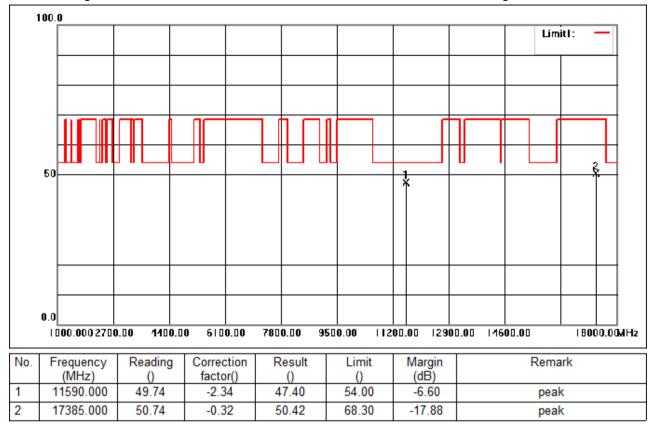
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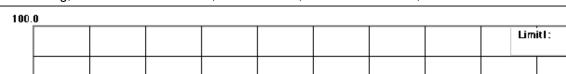


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Mode:g; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:middle

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	100	0. <b>000 270</b>	0.00 11	0.00 611	10.00	780	0.00	950	0.00	1120	0.00	129	00.00	146	00.00	180	00.00v	dHz
No.		quency	Readin			R	esult		Limit			largin			Ren	nark		
		MHz)		fact			0	_				(dB)						
1	115	50.000	49.35	-2.	31	4	7.04		54.00			6.96		peak				
2	173	325.000	50.76	-0.	27	5	0.49		68.30			17.81		peak				



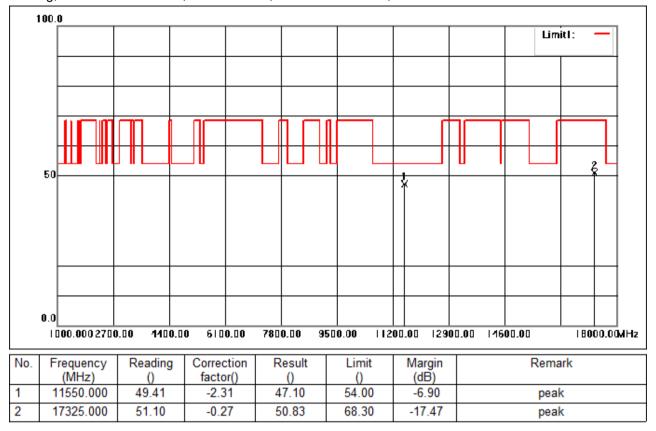
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#### 7.9 Frequency Stability

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



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#### 7.9.1 E.U.T. Operation

Operating Enviror						
Temperature:		°C	Humidity:			Atmospheric Pressure: 1001 mbar
Test mode:	moo four MC cas 802 802	dulation type nd the data S0 is the we e of IEEE 8 2.11ac(VHT2 2.11ac(VHT4	es. All data i rate @ 6Mb orst case of 02.11n(HT4 20); data rat 40); data rat	rates ps is IEEE 0); da e @ N e @ N	for each n the worst 802.11n(ł ata rate @ MCS0 is th MCS0 is th	ntinuously transmitting mode with all nodulation type have been tested and case of IEEE 802.11a; data rate @ HT20); data rate @ MCS0 is the worst MCS0 is the worst case of IEEE ne worst case of IEEE ne worst case of IEEE case is recorded in the report.
	moo four MC cas 802 802	dulation type nd the data S0 is the we e of IEEE 8 2.11ac(VHT2 2.11ac(VHT4	es. All data i rate @ 6Mb orst case of 02.11n(HT4 20); data rat 40); data rat	rates ps is IEEE 0); da e @ N e @ N	for each m the worst 802.11n(H ata rate @ MCS0 is th MCS0 is th	ontinuously transmitting mode with all nodulation type have been tested and case of IEEE 802.11a; data rate @ HT20); data rate @ MCS0 is the worst MCS0 is the worst case of IEEE ne worst case of IEEE ne worst case of IEEE case is recorded in the report.
	moo four 802 802 802 g:T. moo four MC cas 802 802 802	dulation typend the data S0 is the we e of IEEE 8 2.11ac(VHT2 2.11ac(VHT4 2.11ac(VHT4 2.11ac(VHT4 X mode (Ba dulation type nd the data S0 is the we e of IEEE 8 2.11ac(VHT4 2.11ac(VHT4	es. All data i rate @ 6Mb orst case of 02.11n(HT4 20); data rat 40); data rat 80). Only the nd 3)_Keep es. All data i rate @ 6Mb orst case of 02.11n(HT4 20); data rat 40); data rat	ates ps is IEEE 0); da e @ N e @ N e @ A the E cates ps is IEEE 0); da e @ N e @ N	for each m the worst ( 802.11n(H ata rate @ MCS0 is th MCS0 is th of worst ( EUT in con for each m the worst ( 802.11n(H ata rate @ MCS0 is th MCS0 is th	Intinuously transmitting mode with all nodulation type have been tested and case of IEEE 802.11a; data rate @ HT20); data rate @ MCS0 is the worst MCS0 is the worst case of IEEE ne worst case of IEEE case is recorded in the report. Intinuously transmitting mode with all nodulation type have been tested and case of IEEE 802.11a; data rate @ HT20); data rate @ MCS0 is the worst MCS0 is the worst case of IEEE ne worst case of IEEE



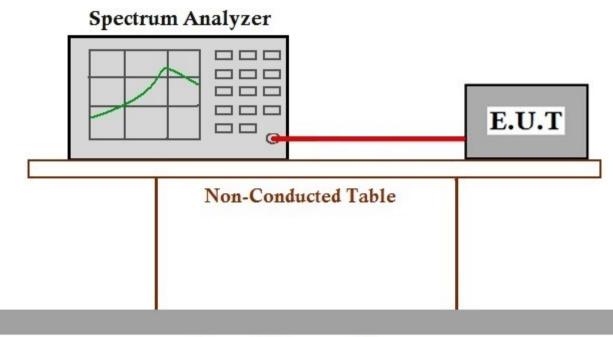
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7.9.2 Test Setup Diagram



### **Ground Reference Plane**

#### 7.9.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM200900737903



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### 8 Test Setup Photographs

Refer to the < Test Setup photos-FCC>.

### 9 EUT Constructional Details

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

- End of the Report -



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