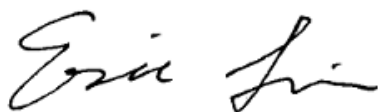


TEST REPORT

Application No.: KSCR2109000086AT
FCC ID: 2ADTD-03C5ACO
IC: 20199-03C5ACO
Applicant: Hangzhou Hikvision Digital Technology Co., Ltd.
Address of Applicant: No.555 Qianmo Road, Binjiang District Hangzhou 310052, China
Manufacturer: Hangzhou Hikvision Digital Technology Co., Ltd.
Address of Manufacturer: No.555 Qianmo Road, Binjiang District Hangzhou 310052, China
Factory: 1.Hangzhou Hikvision Technology Co., Ltd.
2.Hangzhou Hikvision Electronics Co.,Ltd.
3.Hangzhou Hikvision Digital Technology Co., Ltd.
Address of Factory: 1.No.700, Dongliu Road, Binjiang District, Hangzhou Ctiy, Zhejiang, 310052, China
2.No.299, Qiushi Road, Tonglu Economic Development Zone, Tonglu County, Hangzhou, Zhejiang, 310052, China.
3.No.555 Qianmo Road, Binjiang District Hangzhou 310052, China
Equipment Under Test (EUT):
EUT Name: Wireless Bridge
Model No.: DS-3WF03C-5AC/O, DS-3WF03C-5ACUHK/O, DS-3WF03C-5ACCKV/O, DS-3WF03C-5ACUVS/O, DS-3WF03C-5ACKVO/O, DS-3WF03C-5ACHUN/O, DS-XXXXXXXXXXXXX (X can be numbers 0-9 or A-Z or / or - or * or blank) □
□ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Standard(s) : 47 CFR Part 15, Subpart E 15.407
RSS-247 Issue 2, February 2017
RSS-Gen Issue 5, March 2021 Amendment 2
Date of Receipt: 2021-09-18
Date of Test: 2021-10-18 to 2021-11-12
Date of Issue: 2021-11-12

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Eric Lin
Laboratory Manager



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For IC Model No.: DS-3WF03C-5AC/O, DS-3WF03C-5ACUHK/O, DS-3WF03C-5ACCKV/O, DS-3WF03C-5ACUVS/O, DS-3WF03C-5ACKVO/O, DS-3WF03C-5ACHUN/O



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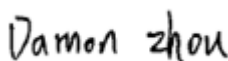
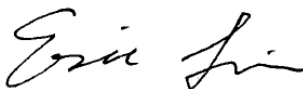
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Revision Record			
Version	Description	Date	Remark
00	Original	2021-11-12	/

Authorized for issue by:			
			
		Damon Zhou / Project Engineer	
			
		Eric Lin / Reviewer	



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2 Test Summary

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

N/A: Not applicable

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

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 DS-3WF03C-5AC/O 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 12V by Adapter or DC 12V by PoE
 Adapter:
 MODEL: ADS-12FG-12N 12012EPCU
 INPUT: 100-240~50/60Hz, Max. 0.3A
 OUTPUT: DC 12V, 1A

Test voltage: AC 120V/60Hz

Serial Number: G31241650

Firmware Version: V1.0.0 build210831

Antenna Gain: Antenna 1:9dBi (Provided by manufacturer)
 Antenna 2:9dBi (Provided by manufacturer)
 Directional gain:9dBi *

Antenna Type: Antenna 1:PCB Antenna
 Antenna 2:PCB Antenna

DFS Function: Master

TPC Function: Support

* Remark: The antenna of the EUT is cross-polarized, so the Directional Gain: 9dBi.

Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels
	UNII Band I	802.11a/n(HT20)/ac(VHT20)	5180-5240	4
		802.11n(HT40)/ac(VHT40)	5190-5230	2
		802.11ac(VHT80)	5210	1
	UNII Band II-A	802.11a/n(HT20)/ac(VHT20)	5260-5320	4
		802.11n(HT40)/ac(VHT40)	5270-5310	2
		802.11ac(VHT80)	5290	1
	UNII Band II-C	802.11a/n(HT20)/ac(VHT20)	5500-5720	12
		802.11n(HT40)/ac(VHT40)	5510-5710	6
		802.11ac(VHT80)	5530~5690	3
	UNII Band III	802.11a/n(HT20)/ac(VHT20)	5745-5825	5
		802.11n(HT40)/ac(VHT40)	5755-5795	2
		802.11ac(VHT80)	5775	1
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)			
Data Rate:	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 300Mbps 802.11ac: up to 866.6Mbps			
Channel Spacing:	802.11a/n(HT20)/ac(VHT20): 20MHz 802.11n(HT40)/ac(VHT40): 40MHz			



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802.11ac(VHT80): 80MHz

Remark: For frequencies falling between 5150-5250MHz and 5600-5650MHz will not be used in Canada.



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Selected Test Channel for 802.11a/n(HT20)/ac(VHT20)		
Band	Channel	Frequency
U-NII Band I	The lowest channel (CH36)	5180MHz
	The middle channel (CH40)	5200MHz
	The highest channel (CH48)	5240MHz
U-NII Band II-A	The lowest channel (CH52)	5260MHz
	The middle channel (CH60)	5300MHz
	The highest channel (CH64)	5320MHz
U-NII Band II-C	The lowest channel (CH100)	5500MHz
	The middle channel (CH115)	5580MHz
	The highest channel 1#(CH140)	5700MHz
	The highest channel 2#(CH144)	5720MHz
U-NII Band III	The lowest channel (CH149)	5745MHz
	The middle channel (CH157)	5785MHz
	The highest channel (CH165)	5825MHz

Selected Test Channel for 802.11n(HT40)/ac(VHT40)		
Band	Channel	Frequency
U-NII Band I	The lowest channel (CH38)	5190MHz
	The highest channel (CH46)	5230MHz
U-NII Band II-A	The lowest channel (CH54)	5270MHz
	The highest channel (CH62)	5310MHz
U-NII Band II-C	The lowest channel (CH102)	5510MHz
	The middle channel (CH110)	5550MHz
	The highest channel 1#(CH134)	5670MHz
	The highest channel 2#(CH142)	5710MHz
U-NII Band III	The lowest channel (CH151)	5755MHz
	The highest channel (CH159)	5795MHz

Selected Test Channel for 802.11ac(VHT80)		
Band	Channel	Frequency
U-NII Band I	One channel (CH42)	5210MHz
U-NII Band II-A	One channel (CH58)	5290MHz
U-NII Band II-C	The lowest channel (CH106)	5530MHz
	The middle channel 1# (CH122)	5610MHz
	The middle channel 2# (CH138)	5690MHz
U-NII Band III	One channel (CH155)	5775MHz



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4.2 Power level setting using in test:

Channel	802.11a		802.11n(HT20)		802.11ac(VHT20)	
	Ant 1	Ant 2	Ant 2	Ant 2	Ant 1	Ant 2
36	20	20	20	20	20	20
40	20	20	20	20	20	20
48	20	20	20	20	20	20
52	20	20	20	20	20	20
60	20	20	20	20	20	20
64	20	20	20	20	20	20
100	20	20	20	20	20	20
116	20	20	20	20	20	20
140	20	20	20	20	20	20
144	20	20	20	20	20	20
149	20	20	20	20	20	20
157	20	20	20	20	20	20
165	20	20	20	20	20	20
Channel	802.11n(HT40)		802.11ac(VHT40)			
	Ant 1	Ant 2	Ant 1	Ant 2		
38	20	20	20	20		
46	20	20	20	20		
54	20	20	20	20		
62	20	20	20	20		
102	20	20	20	20		
110	20	20	20	20		
134	20	20	20	20		
142	20	20	20	20		
151	20	20	20	20		
159	20	20	20	20		



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Channel	802.11ac(VHT80)	
	Ant 1	Ant 2
42	20	20
58	20	20
106	20	20
122	20	20
138	20	20
155	20	20



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4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Note Book	Acer	ZQT	NXM0QCN01031403EE876
PoE	Hikvision		/

4.4 Measurement Uncertainty

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

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



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4.5 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

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

Tel: +86 512 5735 5888

Fax: +86 512 5737 0818

No tests were sub-contracted.

4.6 Test Facility

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

- **CNAS (No. CNAS L4354)**

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA (Certificate No. 2541.01)**

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

- **FCC (Designation Number: CN1172)**

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

Designation Number: CN1172.

- **ISED (CAB identifier: CN0072)**

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

Company Number: 2324E

- **VCCI (Member No.: 1938)**

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

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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5 Equipment List

Item	Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal. Due Date
Conducted Emission at Mains Terminals (150kHz-30MHz)						
1	EMI Test Receive	R&S	ESCI	100781	02/01/2021	01/31/2022
2	LISN	R&S	ENV216	101604	10/12/2021	10/11/2022
3	LISN	Schwarzbeck	NNLK 8129	8129-143	10/12/2021	10/11/2022
4	Pulse Limiter	R&S	ESH3-Z2	100609	02/01/2021	01/31/2022
5	CE test Cable	Thermax	/	14	10/16/2021	10/15/2022
6	Test Software	Farad	EZ-EMC	CCS-03A1	N.C.R	N.C.R
RF Conducted Test						
1	Spectrum Analyzer	Agilent	E4446A	MY44020154	04/16/2021	04/15/2022
2	Spectrum Analyzer	Keysight	N9020A	MY55370209	10/11/2021	10/10/2022
3	Spectrum Analyzer	Keysight	N9010A	MY56480443	02/01/2021	01/31/2022
4	Signal Generator	Agilent	N5182A	MY50142015	08/27/2021	08/26/2022
5	Radio Communication Test Station	Anritsu	MT8000A	6262012849	N/A	N/A
6	Radio Communication Analyzer	Anritsu	MT8821C	6201692222	N/A	N/A
7	Universal Radio Communication Tester	R&S	CMW500	159275	10/12/2021	10/11/2022
8	Universal Radio Communication Tester	R&S	CMW500	167239	04/16/2021	04/15/2022
9	Power Meter	Anritsu	ML2495A	1445010	04/15/2021	04/14/2022
10	Switcher	CCSRF	FY562	KUS2001M001-3	10/12/2021	10/11/2022
11	AC Power Source	EXTECH	6605	1570106	N.C.R	N.C.R
12	DC Power Supply	Aglient	E3632A	MY50340053	N.C.R	N.C.R
13	6dB Attenuator	Mini-Circuits	NAT-6-2W	15542-1	N.C.R	N.C.R
14	Power Divider	AISI	IOWOPE2068	PE2068	N.C.R	N.C.R
15	Filter	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
16	Conducted test cable	/	RF01-RF04	/	04/15/2021	04/14/2022
17	Software	BST	TST-PASS	N/A	N/A	N/A
18	Temp. / Humidity Chamber	TERCHY	MHK-120AK	X30109	04/15/2021	04/14/2022
19	Thermometer	Anymetre	TH603	CCS007	10/14/2021	10/13/2022
RF Radiated Test						
1	Spectrum Analyzer	R&S	FSV40	101493	10/11/2021	10/10/2022
2	Signal Generator	Agilent	E8257C	MY43321570	10/18/2021	10/17/2022
3	Loop Antenna	Schwarzbeck	HXYZ9170	9170-108	02/22/2021	02/21/2022
4	Bilog Antenna	TESEQ	CBL 6112D	35403	06/21/2021	06/20/2023
5	Bilog Antenna	SCHWARZBECK	VULB9160	9160-3342	04/13/2021	04/12/2023
6	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	267	10/26/2020	10/25/2022
7	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	00143290	02/22/2021	02/21/2023
8	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	BBHA9170171	02/22/2021	02/21/2022
9	Pre-Amplifier(30MHz~18GHz)	LNA	/	/	04/15/2021	04/14/2022
10	Amplifier(18~40GHz)	COM-POWER	PAM-840A	461332	10/18/2021	10/17/2022
11	Low Pass Filter	MICRO-TRONICS	VLFX-950	RV142900829	N.C.R	N.C.R
12	High Pass Filter	Mini-Circuits	VHF-1200	15542	N.C.R	N.C.R
13	Filter (5450MHz~5770 MHz)	MICRO-TRONICS	BRC50704-01	2	N.C.R	N.C.R



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14	Filter (5690 MHz~5930 MHz)	MICRO-TRONICS	BRC50705-01	4	N.C.R	N.C.R
15	Filter (5150 MHz~5350 MHz)	MICRO-TRONICS	BRC50703-01	2	N.C.R	N.C.R
16	Filter (885 MHz~915 MHz)	MICRO-TRONICS	BRM14698	1	N.C.R	N.C.R
17	Filter (815 MHz~860 MHz)	MICRO-TRONICS	BRM14697	1	N.C.R	N.C.R
18	Filter (1745 MHz~1910 MHz)	MICRO-TRONICS	BRM14700	1	N.C.R	N.C.R
19	Filter (1922 MHz~1977 MHz)	MICRO-TRONICS	BRM50715	1	N.C.R	N.C.R
20	Filter (2550 MHz)	MICRO-TRONICS	HPM13362	5	N.C.R	N.C.R
21	Filter (1532 MHz~1845 MHz)	MICRO-TRONICS	BRM50713	1	N.C.R	N.C.R
22	Filter (2.4GHz)	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
23	RE test cable	/	RE01-RE04	/	04/15/2021	04/14/2022
24	Software	Faratronic	EZ EMC-v 3A1	N/A	N/A	N/A



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard Requirement:

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

EUT Antenna:

The antenna 1 and antenna 2 is PCB antenna, and all no consideration of replacement. The best case gain of the antenna 1 is 9dBi. and antenna 2 is 9dBi.

Antenna location: Refer to Appendix (Internal Photos).



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6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.407 (c)

6.2.2 Conclusion

Standard Requirement:

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

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

EUT Details:

WIFI chip (RTL8812BRH) support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.



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7 Radio Spectrum Matter Test Results

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

Test Requirement 47 CFR Part 15, Subpart C 15.207 & 15.407 b(6)

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of Emission (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

Operating Environment:

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

Pretest these modes to find the worst case: b: TX mode (Band 1)_Powered by Adapter_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

c: TX mode (Band 2A)_Powered by Adapter_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

d: TX mode (Band 2C)_Powered by Adapter_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

e: TX mode (Band 3)_Powered by Adapter_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



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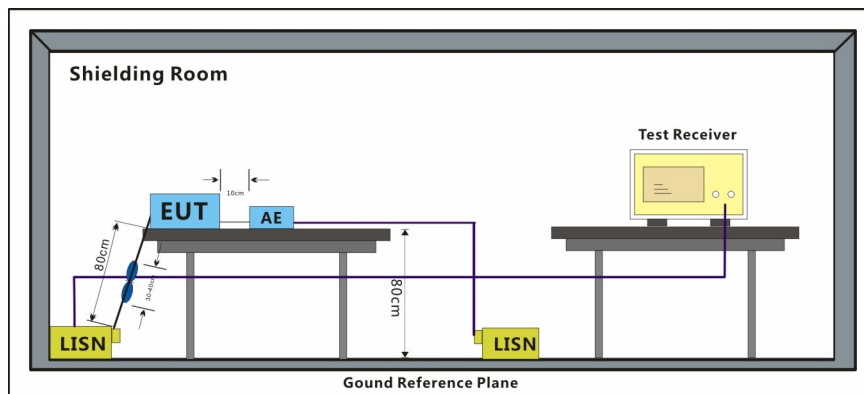
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The worst case
for final test:

IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
b: TX mode (Band 1)_Powered by Adapter_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.1.2 Test Setup Diagram



7.1.3 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark 1: LISN = Read Level + Cable Loss + LISN Factor

Remark 2: The EUT has two power supply modes, DC 12V by AC adapter and DC 12V by PoE Adapter. We have tested both power supply modes, but only the worst test results are presented, powered by the AC Adapter.



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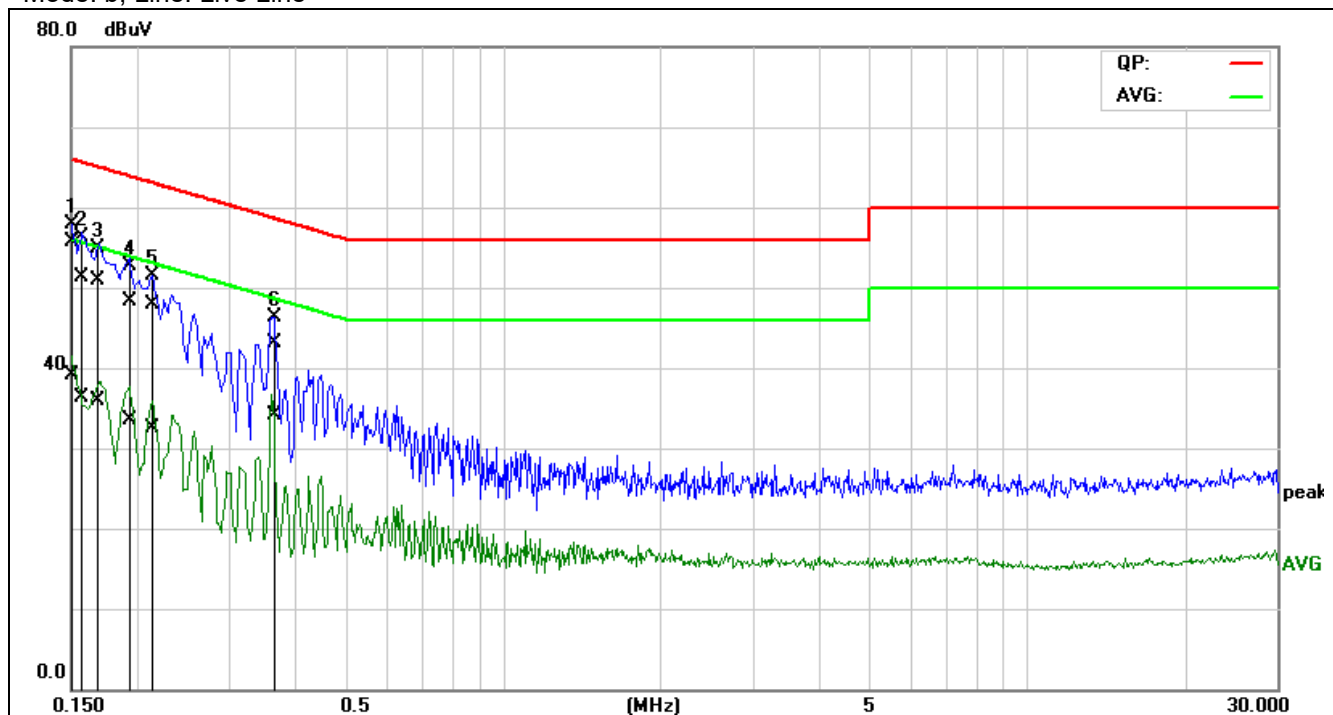
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Mode: b; Line: Live Line



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1*	0.1507	36.29	19.73	19.46	55.75	39.19	65.96	55.96	-10.21	-16.77	Pass
2	0.1543	31.93	16.91	19.46	51.39	36.37	65.76	55.77	-14.37	-19.40	Pass
3	0.1667	31.53	16.53	19.46	50.99	35.99	65.12	55.12	-14.13	-19.13	Pass
4	0.1957	28.91	14.07	19.46	48.37	33.53	63.79	53.79	-15.42	-20.26	Pass
5	0.2113	28.52	13.02	19.46	47.98	32.48	63.15	53.15	-15.17	-20.67	Pass
6	0.3646	23.53	14.52	19.49	43.02	34.01	58.62	48.62	-15.60	-14.61	Pass



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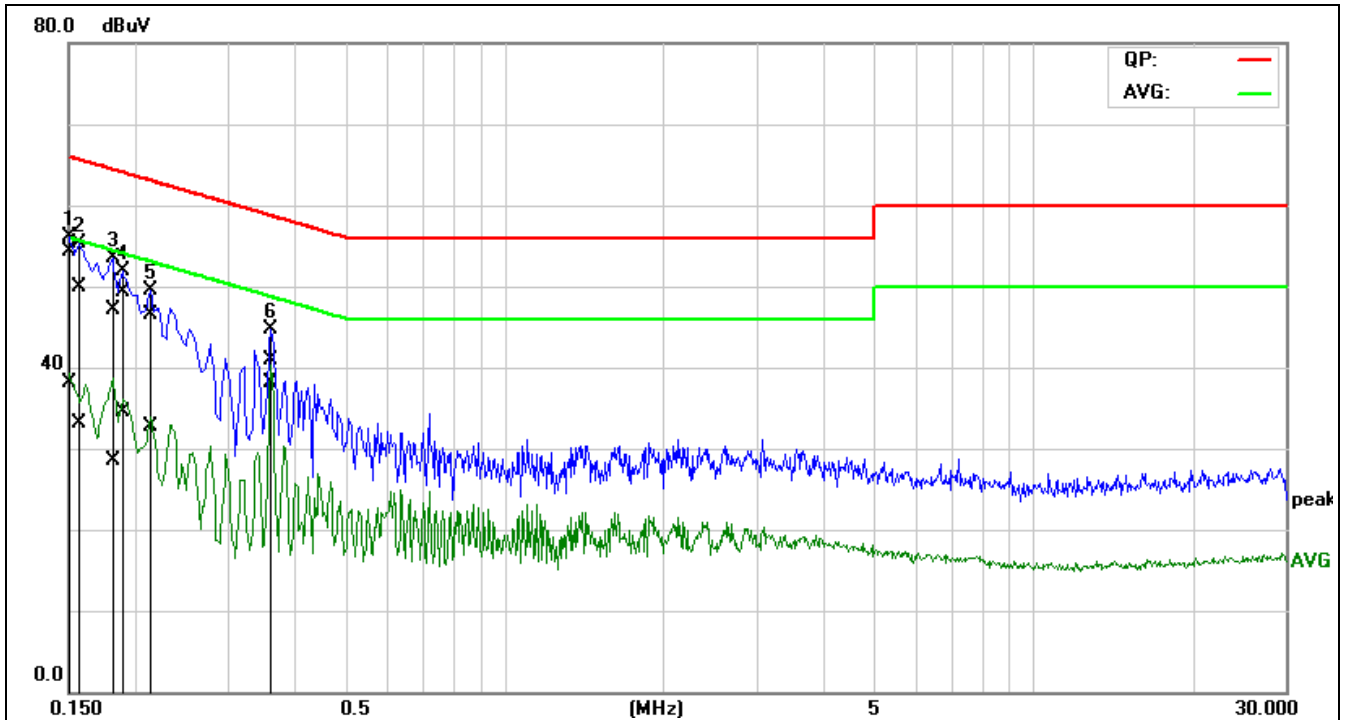
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Mode: b; Line: Neutral Line



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1500	34.98	18.78	19.42	54.40	38.20	65.99	56.00	-11.59	-17.80	Pass
2	0.1556	30.47	13.73	19.42	49.89	33.15	65.69	55.70	-15.80	-22.55	Pass
3	0.1788	27.73	9.03	19.43	47.16	28.46	64.54	54.54	-17.38	-26.08	Pass
4	0.1905	29.86	15.15	19.43	49.29	34.58	64.01	54.01	-14.72	-19.43	Pass
5	0.2110	27.08	13.26	19.43	46.51	32.69	63.16	53.17	-16.65	-20.48	Pass
6*	0.3593	21.41	18.71	19.47	40.88	38.18	58.74	48.74	-17.86	-10.56	Pass

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7.2 99% Bandwidth

Test Requirement N/A

Test Method: KDB 789033 II D

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test Mode b: TX mode (Band 1)_Powered by Adapter_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

c: TX mode (Band 2A)_Powered by Adapter_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

d: TX mode (Band 2C)_Powered by Adapter_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

e: TX mode (Band 3)_Powered by Adapter_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



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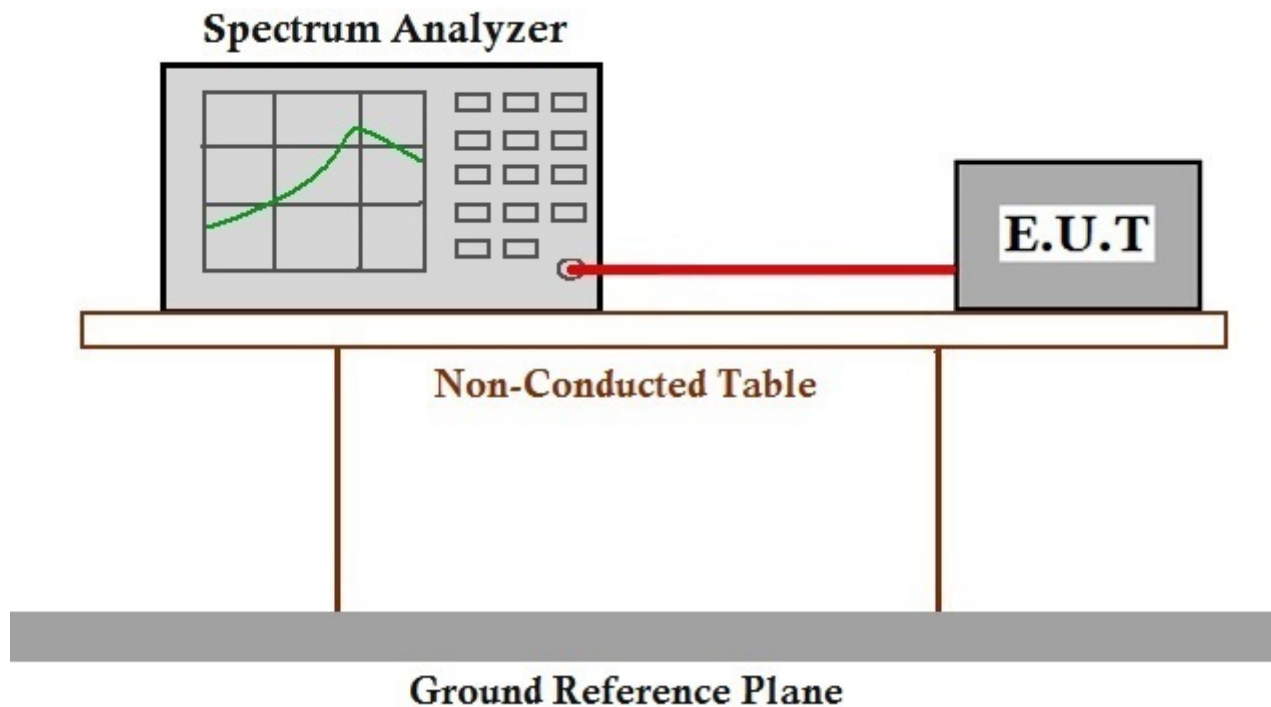
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7.2.2 Test Setup Diagram



7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix A for KSCR210900008601



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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: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test Mode b:TX mode (Band 1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

c:TX mode (Band 2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

d:TX mode (Band 2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



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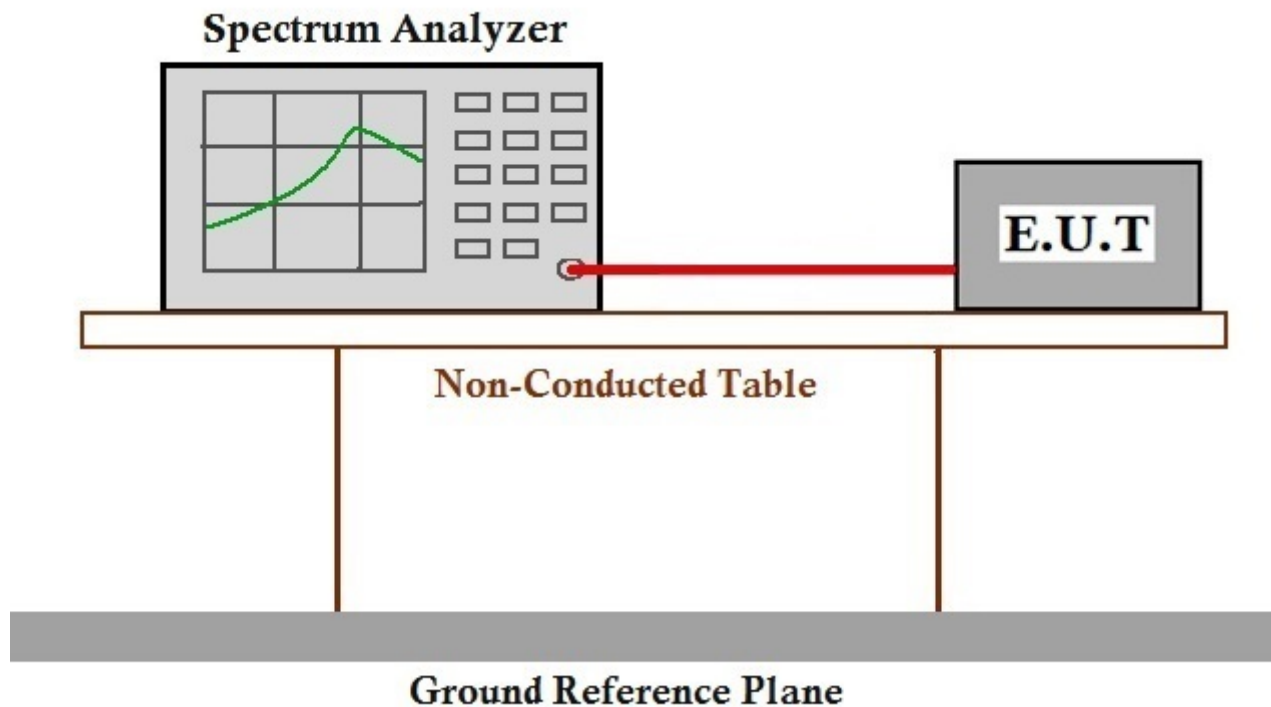
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7.3.2 Test Setup Diagram



7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix A for KSCR210900008601



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

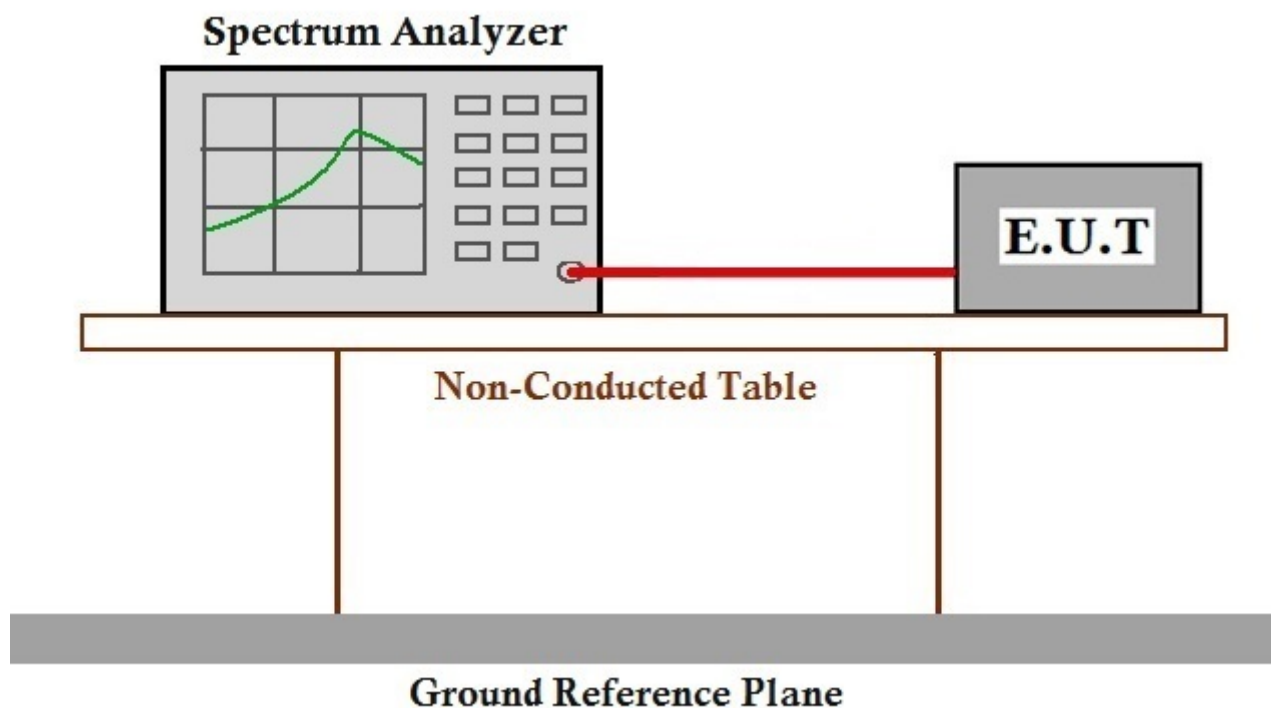
Test Requirement 47 CFR Part 15, Subpart C 15.407 (e)
 Test Method: KDB 789033 D02 II C 2
 Limit: ≥ 500 kHz

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test mode e: TX mode (Band 3)_Powered by Adapter_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.4.2 Test Setup Diagram**7.4.3 Measurement Procedure and Data**

The detailed test data see: Appendix A for KSCR210900008601



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7.5 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart C 15.407 (a)

Test Method: KDB 789033 D02 II E

Limit:

For FCC

Frequency Band (MHz)	Limit
5150-5250	≤1W(30dBm) for master device
	≤250mW(24dBm) for client device
5250-5350	≤250mW(24dBm) for client device or 11dBm+10logB*
5470-5725	≤250mW(24dBm) for client device or 11dBm+10logB*
5725-5850	≤1W(30dBm)
Remark:	* Where B is the 26dB emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For the band 5.725-5.850 GHz, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. The EUT 802.11n/ac mode supports 2 * 2 MIMO transmission. The Gain of each antenna is 9dBi. The antenna of the EUT is cross-polarized, so the Directional Gain: 9dBi. Therefore, the power limit should be reduced from the part exceeding 6, 5250-5350MHz & 5470-5725MHz: 20.98dBm; For 5150-5250MHz & 5725-5850MHz: 30.00dBm.

For ISCED

Frequency Band (MHz)	Limit
5150-5250	Maximum e.i.r.p. ≤ 200 mW (23.01dBm) or 10 + 10 log ₁₀ B
5250-5350	Maximum conducted output power ≤ 250 mW (23.98dBm) or 11 + 10 log ₁₀ B, whichever power is less;
5470-5725	
	Maximum e.i.r.p. ≤ 1.0 W (30dBm) or 17 + 10 log ₁₀ B
5725-5850	Maximum conducted output power ≤ 1.0 W (30dBm)
Remark:	* Where B is the 99% emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.



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7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test Mode b: TX mode (Band 1)_Powered by Adapter_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

c: TX mode (Band 2A)_Powered by Adapter_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

d: TX mode (Band 2C)_Powered by Adapter_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

e: TX mode (Band 3)_Powered by Adapter_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



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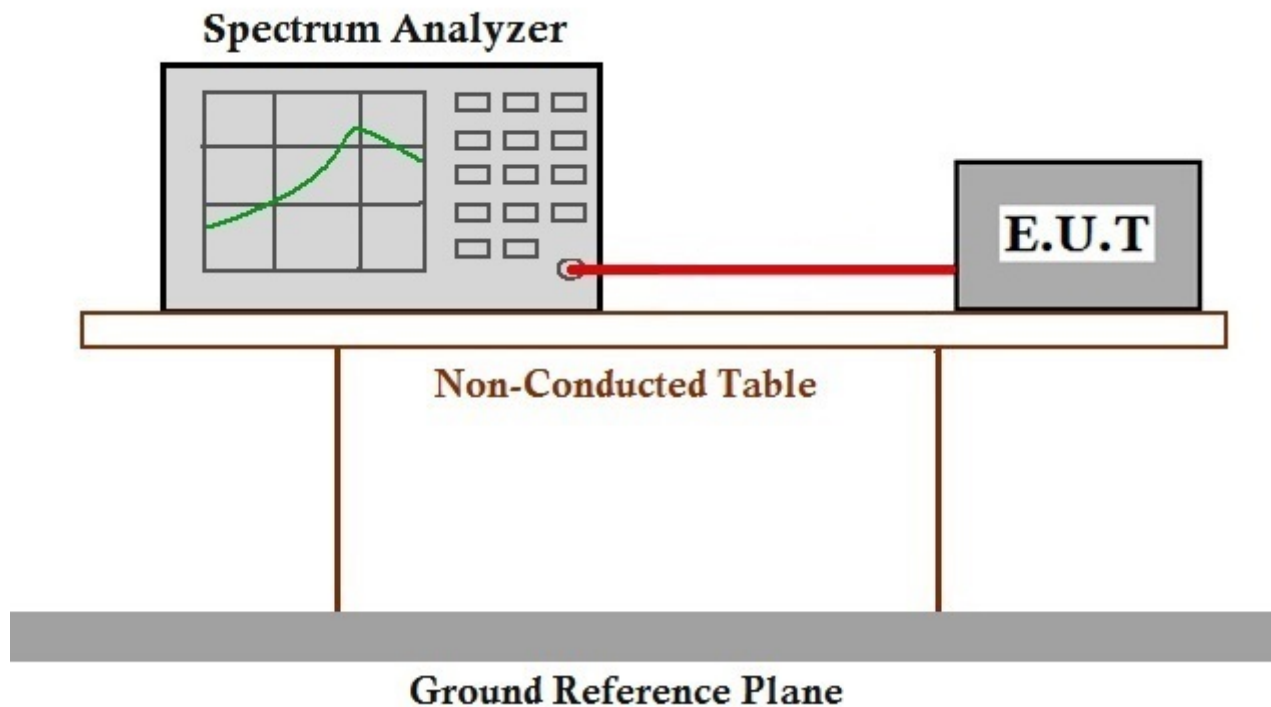
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7.5.2 Test Setup Diagram



7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix A for KSCR210900008601



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7.6 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart C 15.407 (a)

Test Method: KDB 789033 D02 II F

Limit:

For FCC

Frequency Band (MHz)	Limit
5150-5250	≤17dBm in 1MHz for master device
	≤11dBm in 1MHz for client device
5250-5350	≤11dBm in 1MHz for client device
5470-5725	≤11dBm in 1MHz for client device
5725-5850	≤30dBm in 500 kHz
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For the band 5.725-5.850 GHz, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. The EUT 802.11n/ac mode supports 2 * 2 MIMO transmission. The Gain of each antenna is 9dBi. The antenna of the EUT is cross-polarized, so the Directional Gain: 9dBi. Therefore, the power limit should be reduced from the part exceeding 6, 5250-5350MHz & 5470-5725MHz: 8dBm/MHz; For 5150-5250MHz: 17dBm/MHz; 5725-5850MHz: 30.00dBm/500kHz.



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7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test Mode b: TX mode (Band 1)_Powered by Adapter_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

c: TX mode (Band 2A)_Powered by Adapter_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

d: TX mode (Band 2C)_Powered by Adapter_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

e: TX mode (Band 3)_Powered by Adapter_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



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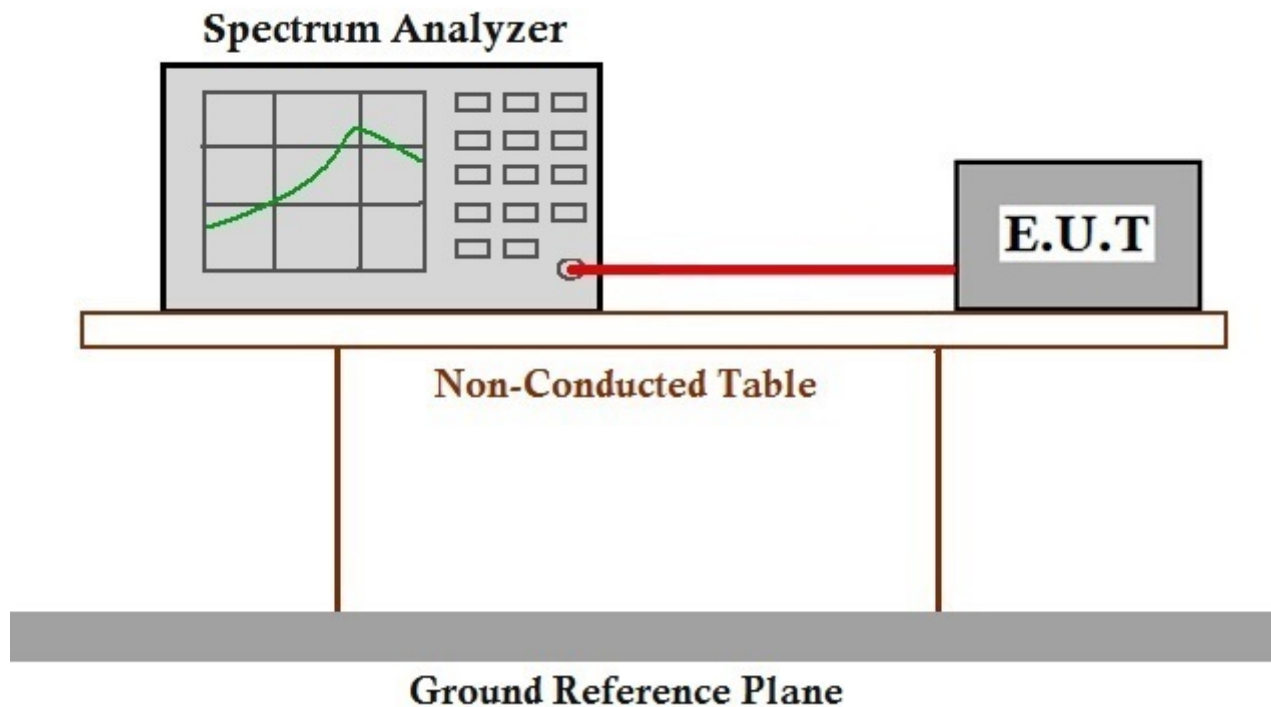
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7.6.2 Test Setup Diagram



7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix A for KSCR210900008601



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7.7 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.

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test Mode: b: TX mode (Band 1)_Powered by Adapter_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

c: TX mode (Band 2A)_Powered by Adapter_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

d: TX mode (Band 2C)_Powered by Adapter_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



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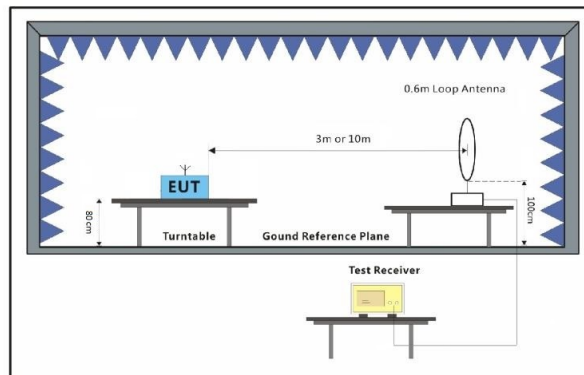
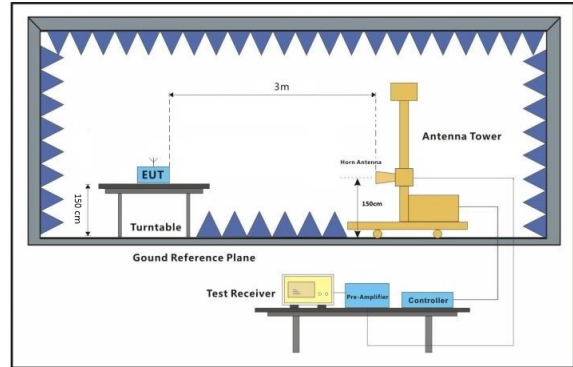
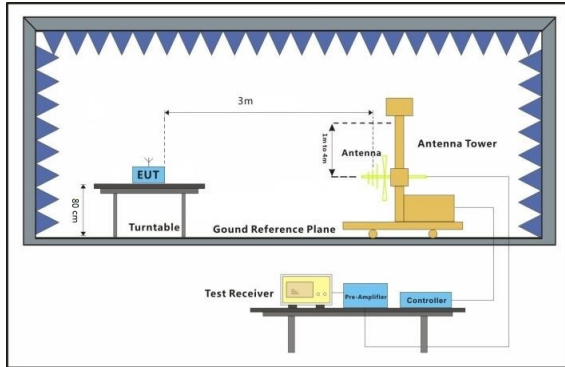
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e: TX mode (Band 3)_Powered by Adapter_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.7.2 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
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. Scan from 9kHz to 40GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
4. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
5. This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for a modulation and MIMO antenna operation for n/ac modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.
- 6: The EUT has two power supply modes, DC 12V by AC adapter and DC 12V by PoE Adapter. We have tested both power supply modes, but only the worst test results are presented, powered by the AC Adapter.



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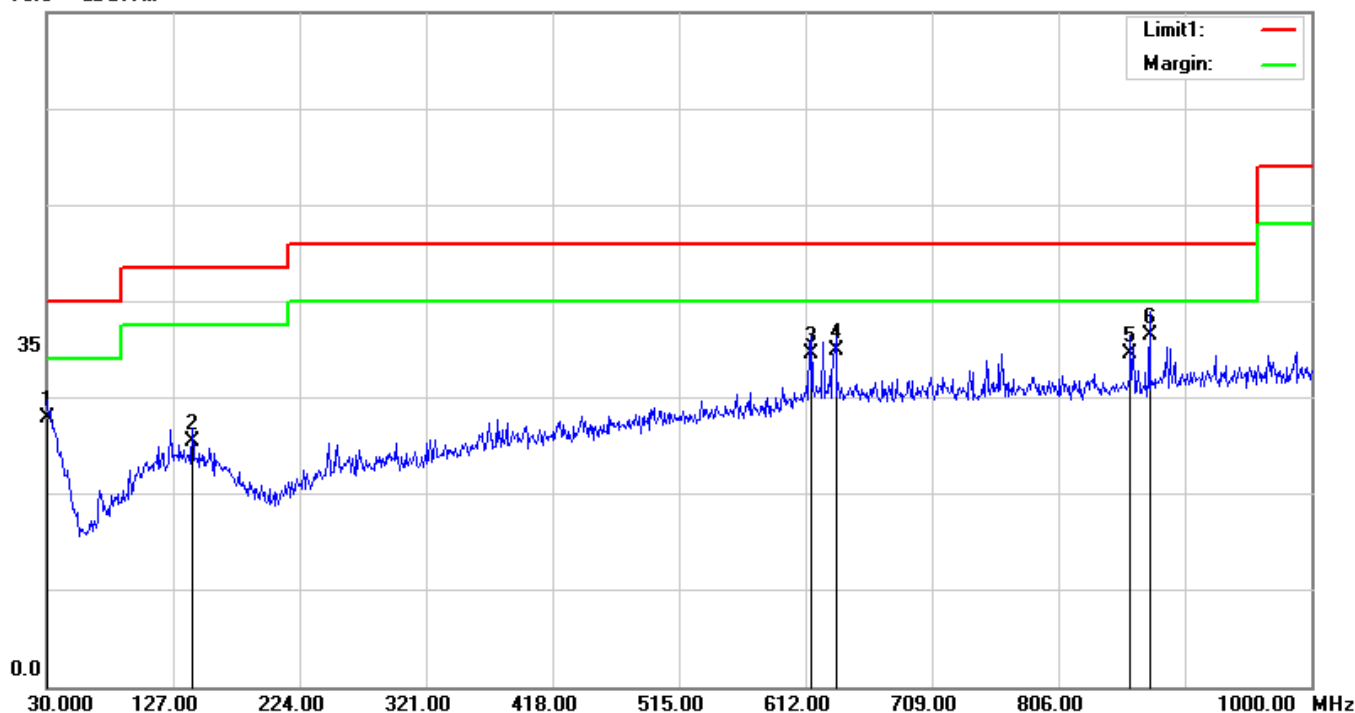
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Below 1GHz:

Horizontal

70.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	30.0000	2.03	25.93	27.96	40.00	-12.04	100	7	QP
2	141.5500	5.52	19.86	25.38	43.50	-18.12	100	360	QP
3	616.8500	7.83	26.71	34.54	46.00	-11.46	100	73	QP
4	635.2800	7.94	26.93	34.87	46.00	-11.13	100	79	QP
5	861.2900	6.44	28.21	34.65	46.00	-11.35	100	229	QP
6	875.8400	8.16	28.38	36.54	46.00	-9.46	100	254	QP



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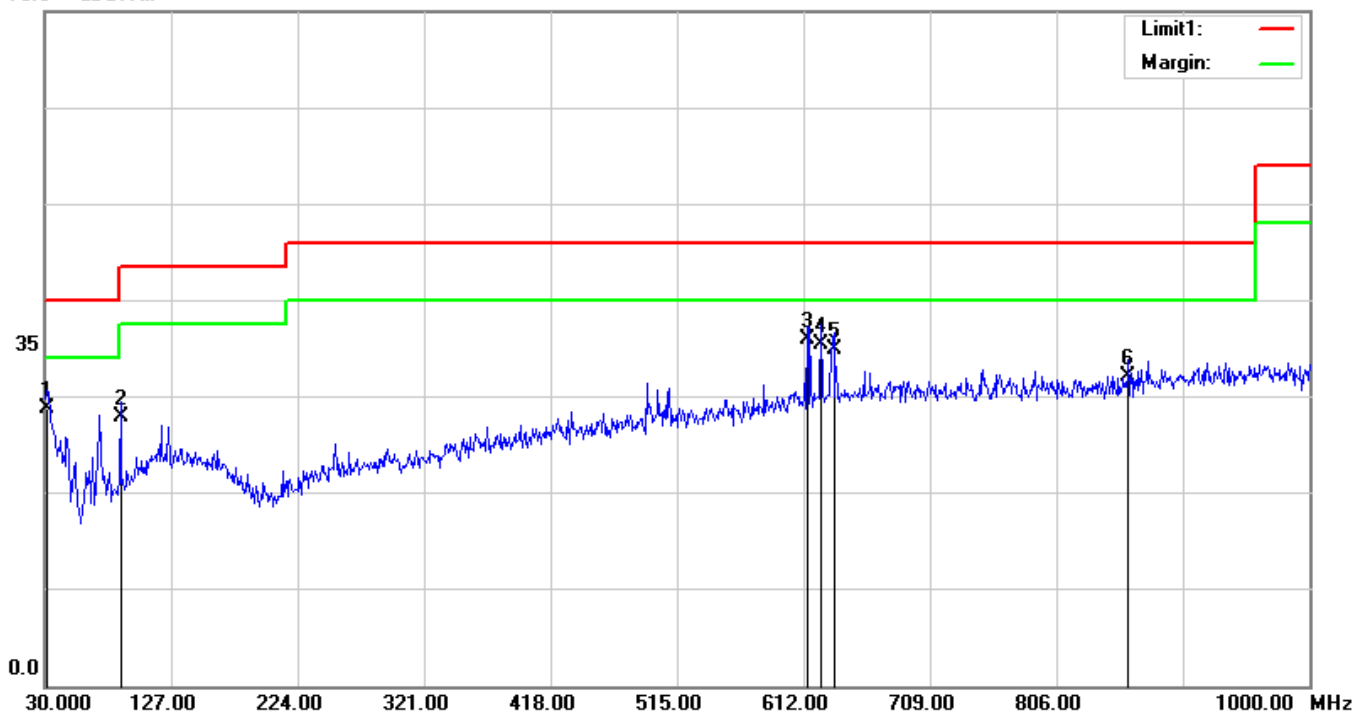
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Vertical

70.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	31.9400	3.91	24.82	28.73	40.00	-11.27	100	232	QP
2	88.2000	11.43	16.42	27.85	43.50	-15.65	100	68	QP
3	614.9100	9.32	26.69	36.01	46.00	-9.99	100	169	QP
4	625.5800	8.59	26.82	35.41	46.00	-10.59	100	166	QP
5	635.2800	8.06	26.93	34.99	46.00	-11.01	100	166	QP
6	861.2900	3.95	28.21	32.16	46.00	-13.84	100	199	QP



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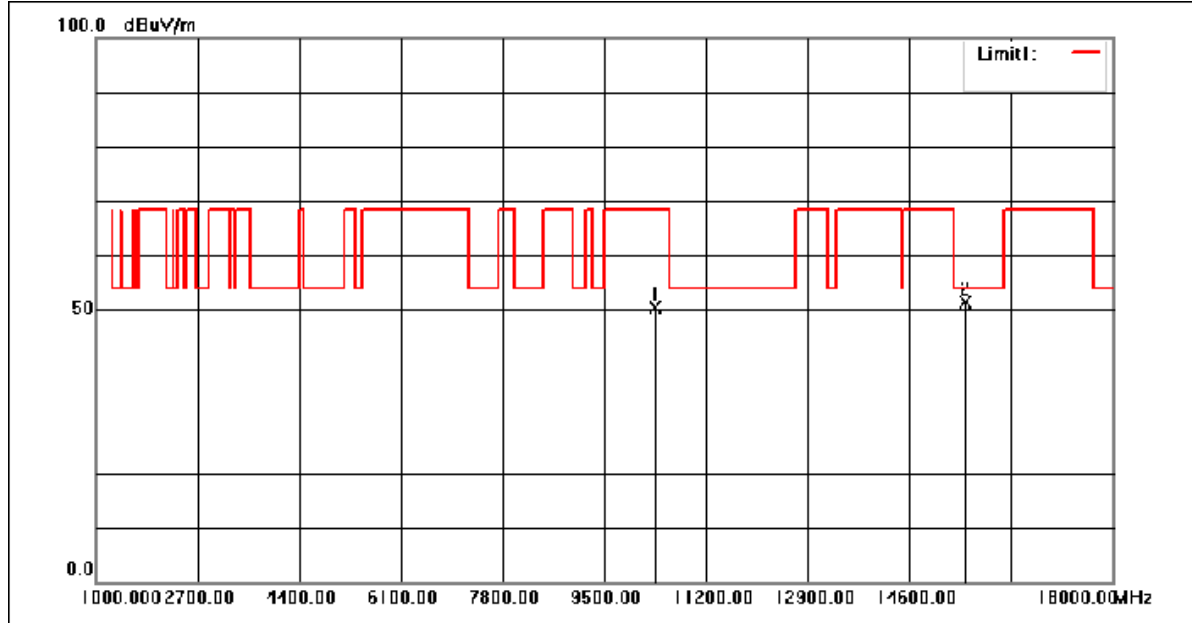
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Above 1GHz:

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	50.28	0.16	50.44	68.30	-17.86	peak
2	15540.000	45.61	5.73	51.34	54.00	-2.66	peak



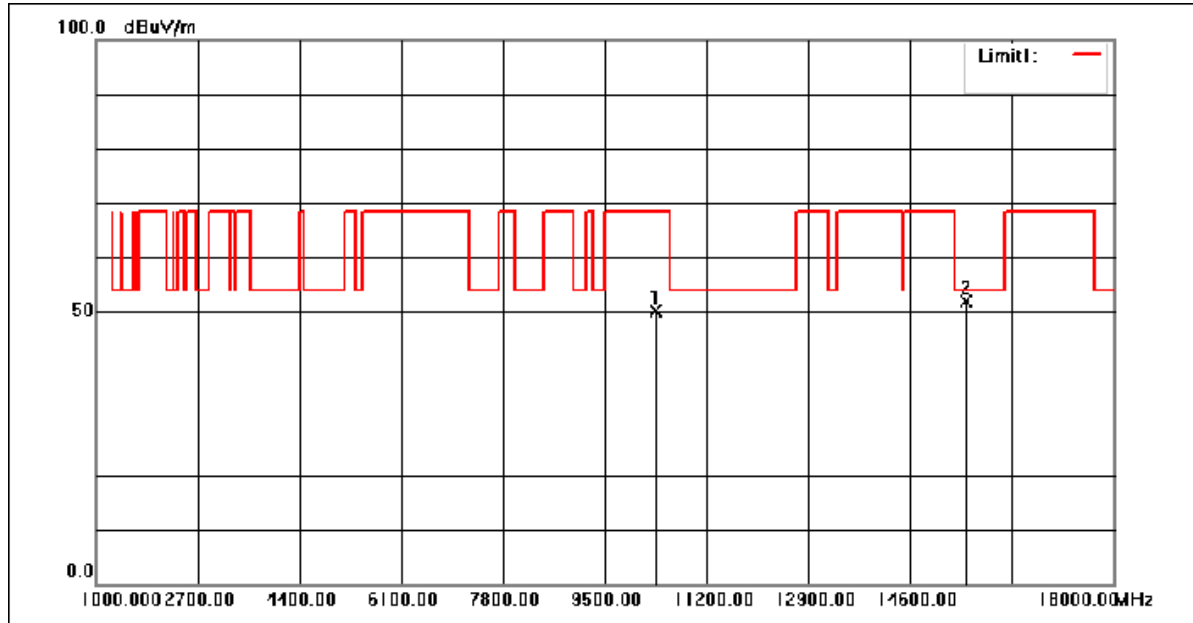
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Mode: b; Polarization: Vertical; Modulation: a; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	50.05	0.16	50.21	68.30	-18.09	peak
2	15540.000	46.10	5.73	51.83	54.00	-2.17	peak

Compliance Certification Services (Kunshan) Inc.
EMC Laboratory

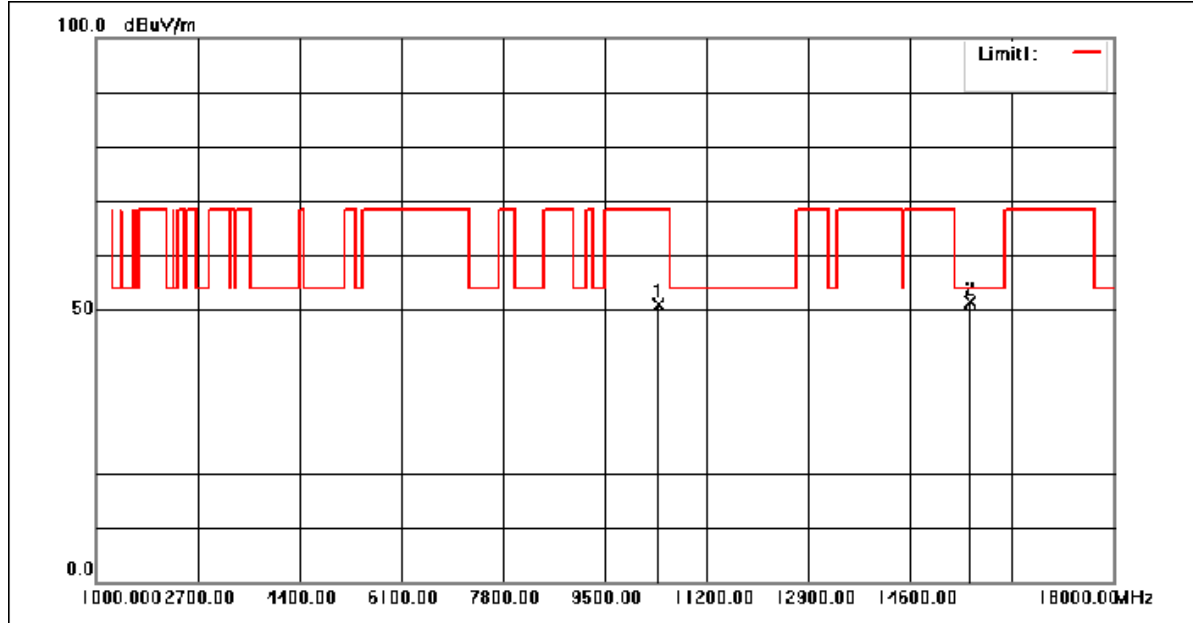
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Mode: b; Polarization: Horizontal; Modulation: a; bandwidth: 20MHz; Channel: middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	50.71	0.24	50.95	68.30	-17.35	peak
2	15600.000	45.61	5.85	51.46	54.00	-2.54	peak



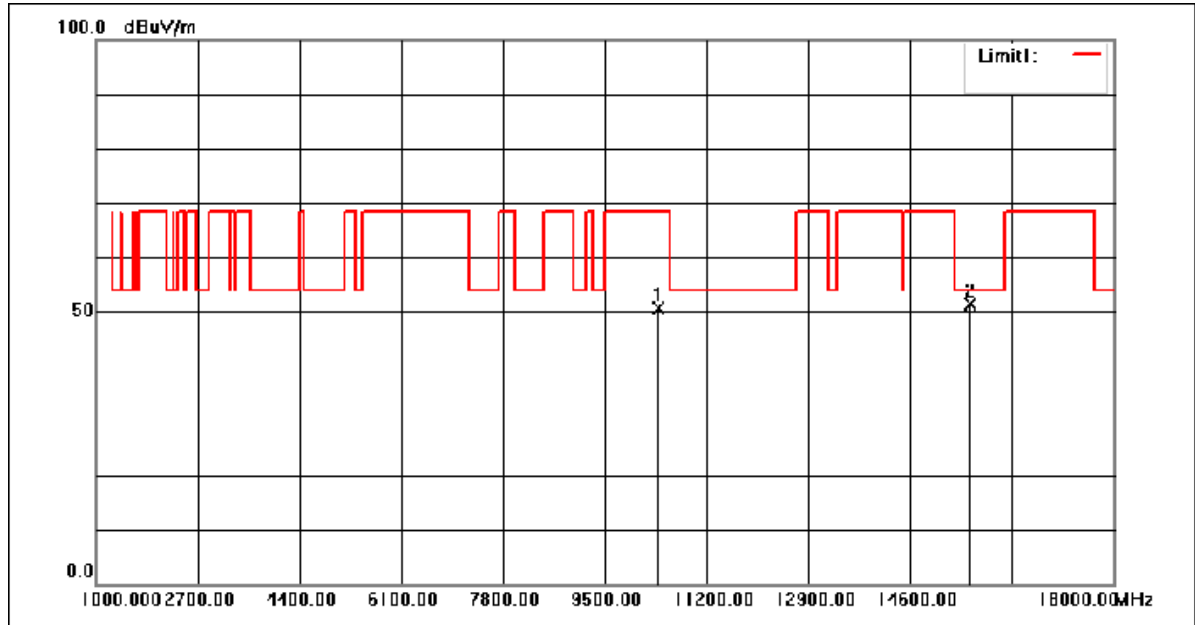
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Mode: b; Polarization: Vertical; Modulation: a; bandwidth: 20MHz; Channel: middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	50.45	0.24	50.69	68.30	-17.61	peak
2	15600.000	45.47	5.85	51.32	54.00	-2.68	peak



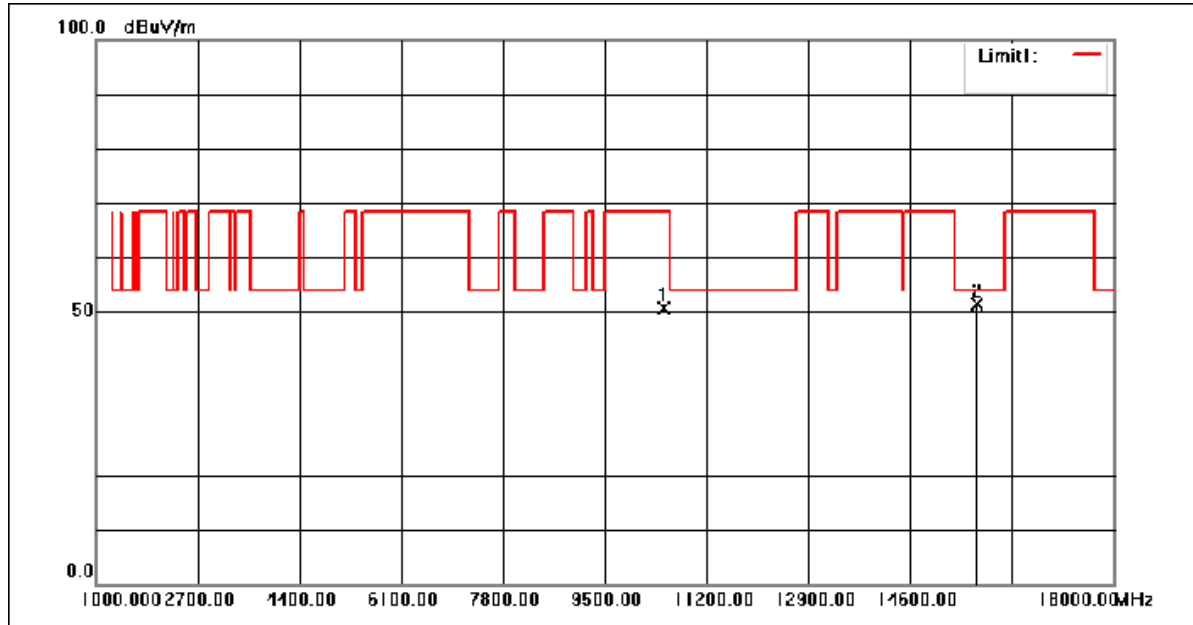
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Mode: b; Polarization: Horizontal; Modulation: a; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	50.15	0.40	50.55	68.30	-17.75	peak
2	15720.000	45.21	6.10	51.31	54.00	-2.69	peak



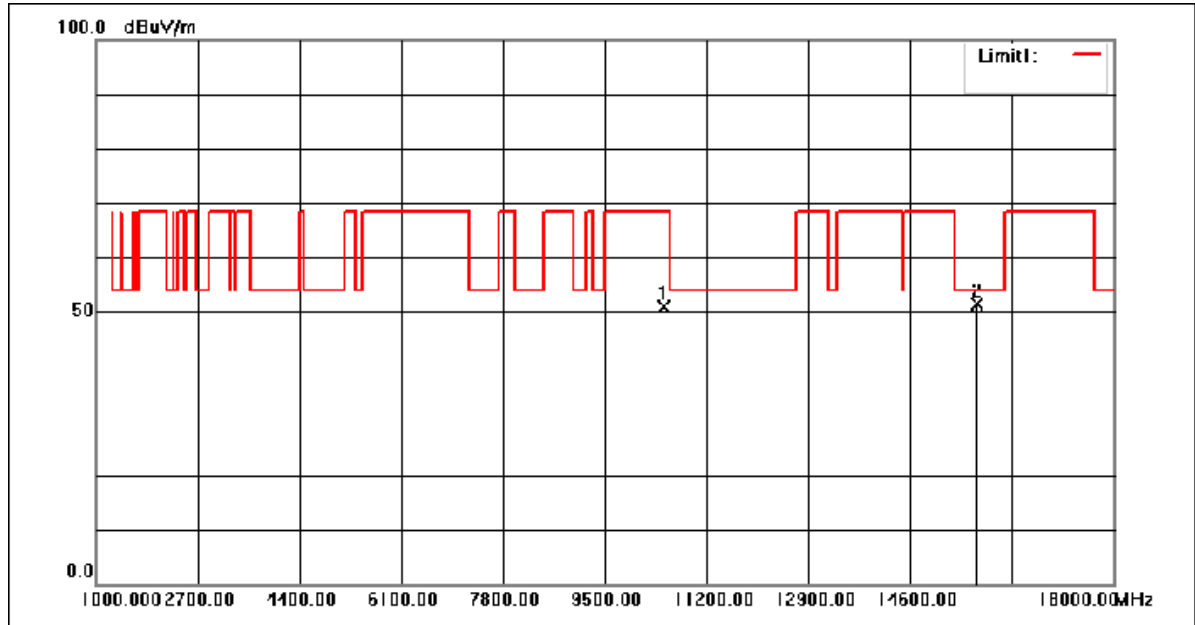
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Mode: b; Polarization: Vertical; Modulation: a; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	50.54	0.40	50.94	68.30	-17.36	peak
2	15720.000	45.30	6.10	51.40	54.00	-2.60	peak



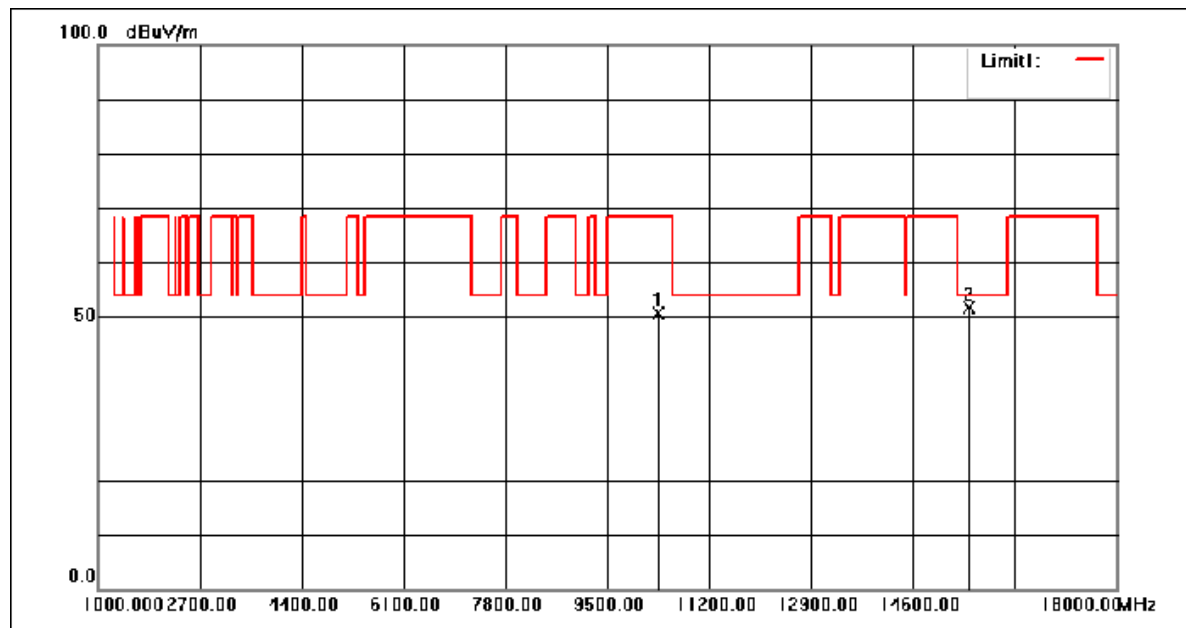
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Mode: b; Polarization: Horizontal; Modulation: n; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	50.35	0.16	50.51	68.30	-17.79	peak
2	15540.000	45.81	5.73	51.54	54.00	-2.46	peak



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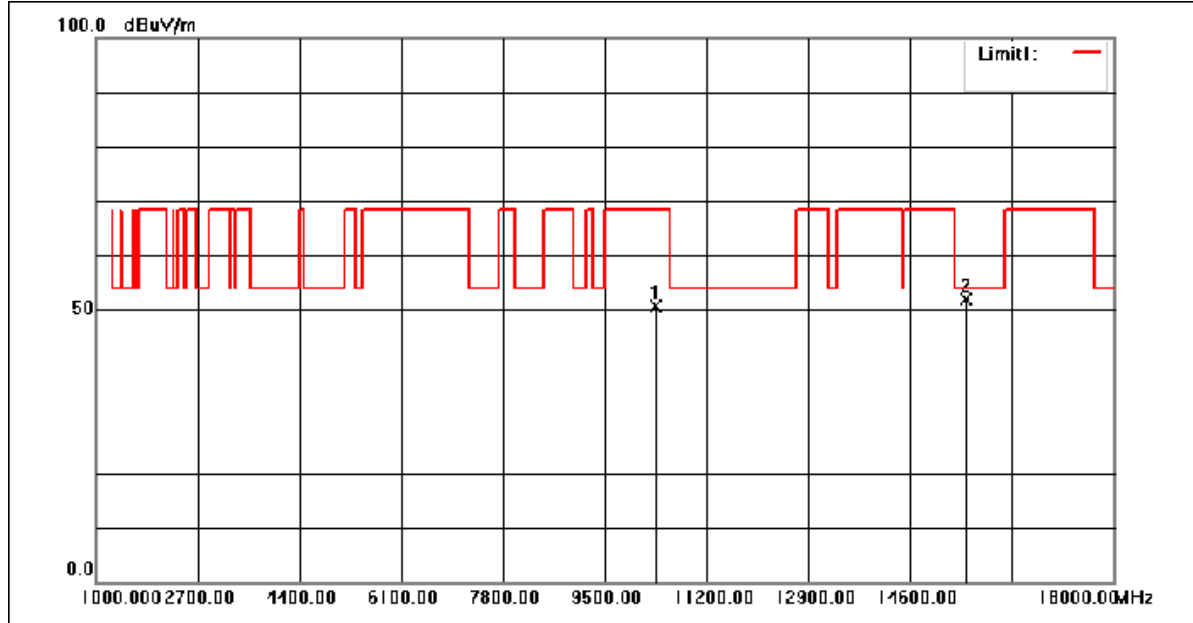
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Mode: b; Polarization: Vertical; Modulation: n; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	50.48	0.16	50.64	68.30	-17.66	peak
2	15540.000	46.03	5.73	51.76	54.00	-2.24	peak



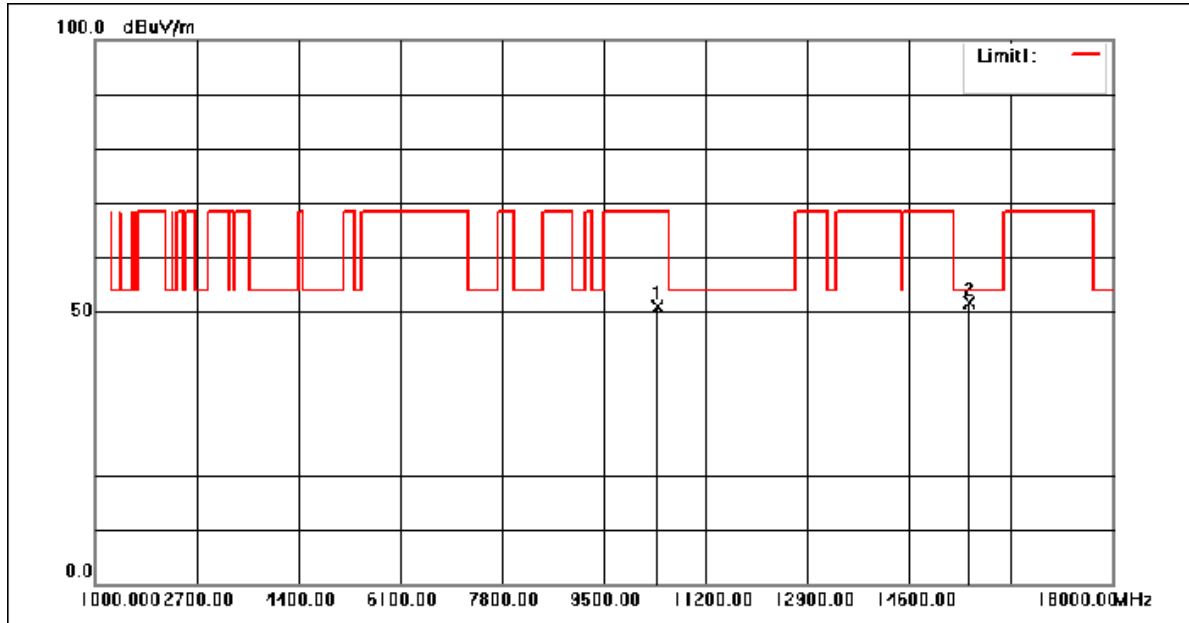
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Mode: b; Polarization: Horizontal; Modulation: n; bandwidth: 20MHz; Channel: middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	50.62	0.24	50.86	68.30	-17.44	peak
2	15600.000	45.89	5.85	51.74	54.00	-2.26	peak



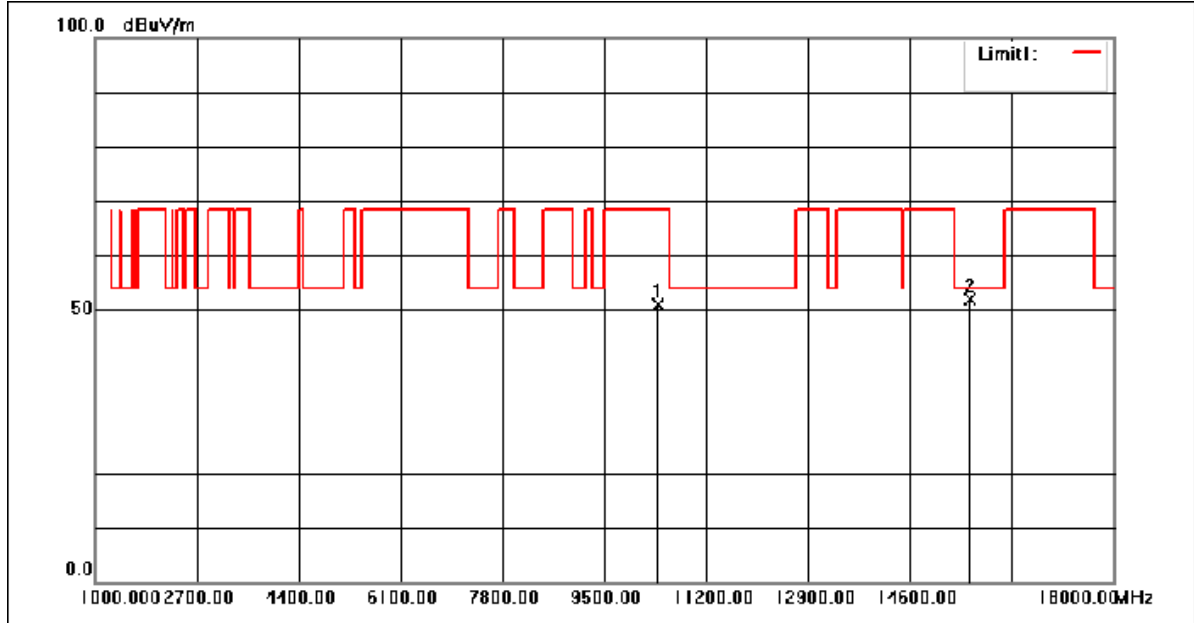
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Mode: b; Polarization: Vertical; Modulation: n; bandwidth: 20MHz; Channel: middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	50.59	0.24	50.83	68.30	-17.47	peak
2	15600.000	46.11	5.85	51.96	54.00	-2.04	peak



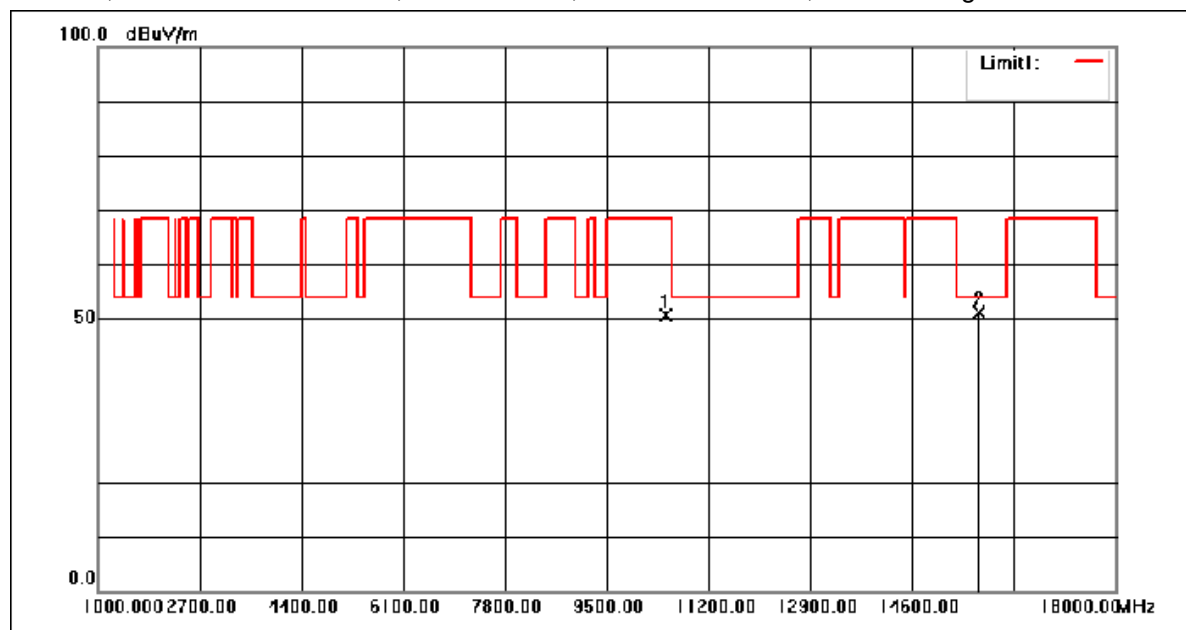
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Mode: b; Polarization: Horizontal; Modulation: n; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	50.33	0.40	50.73	68.30	-17.57	peak
2	15720.000	45.06	6.10	51.16	54.00	-2.84	peak



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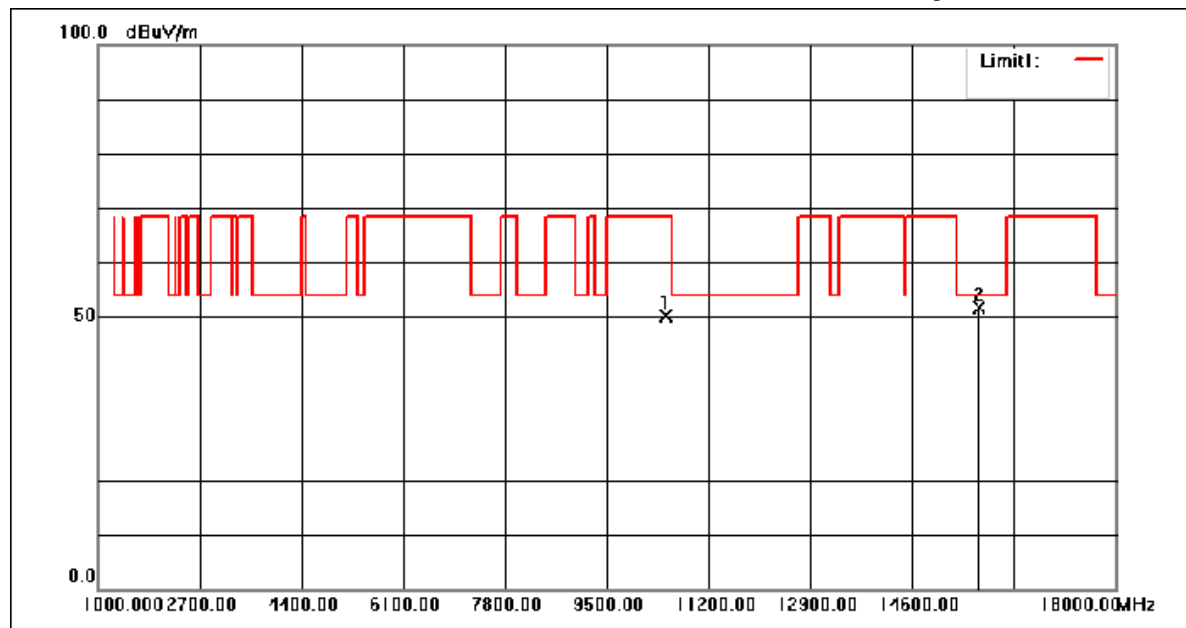
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Mode: b; Polarization: Vertical; Modulation: n; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	49.82	0.40	50.22	68.30	-18.08	peak
2	15720.000	45.48	6.10	51.58	54.00	-2.42	peak



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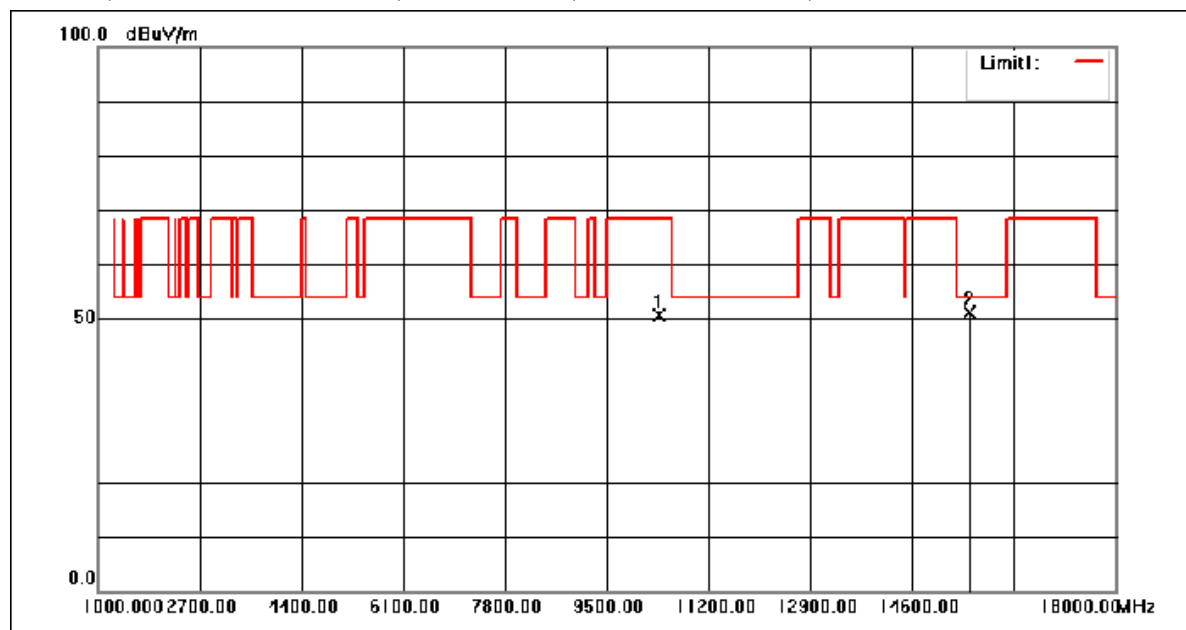
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Mode: b; Polarization: Horizontal; Modulation: n; bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	50.36	0.20	50.56	68.30	-17.74	peak
2	15570.000	45.42	5.79	51.21	54.00	-2.79	peak

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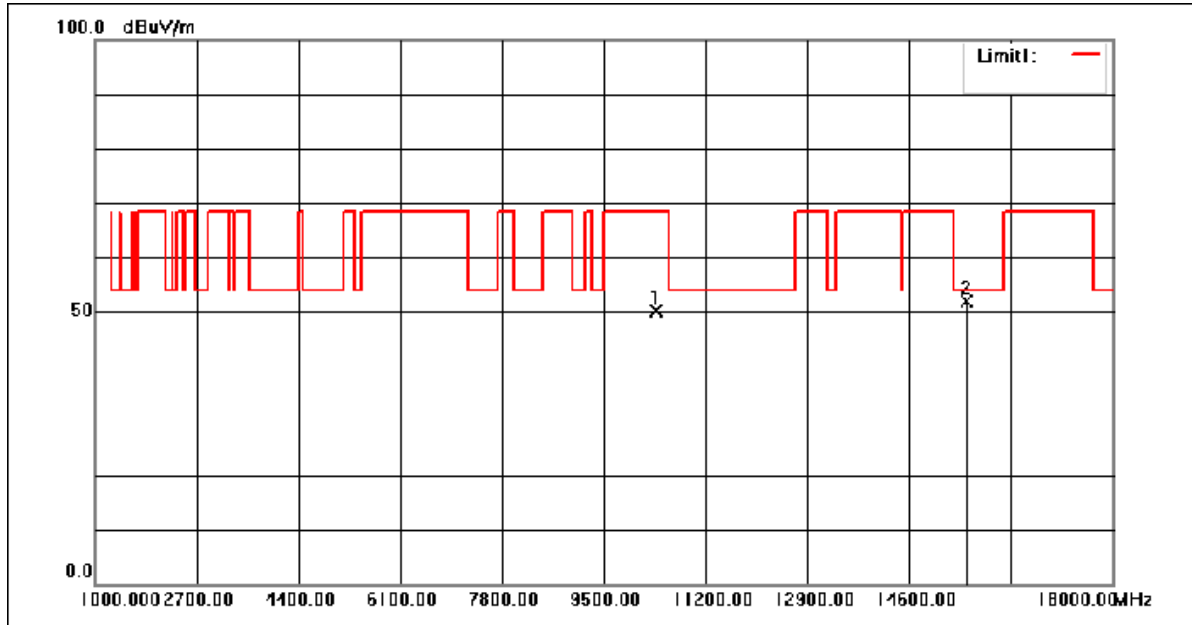
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Mode: b; Polarization: Vertical; Modulation: n; bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	49.92	0.20	50.12	68.30	-18.18	peak
2	15570.000	46.07	5.79	51.86	54.00	-2.14	peak



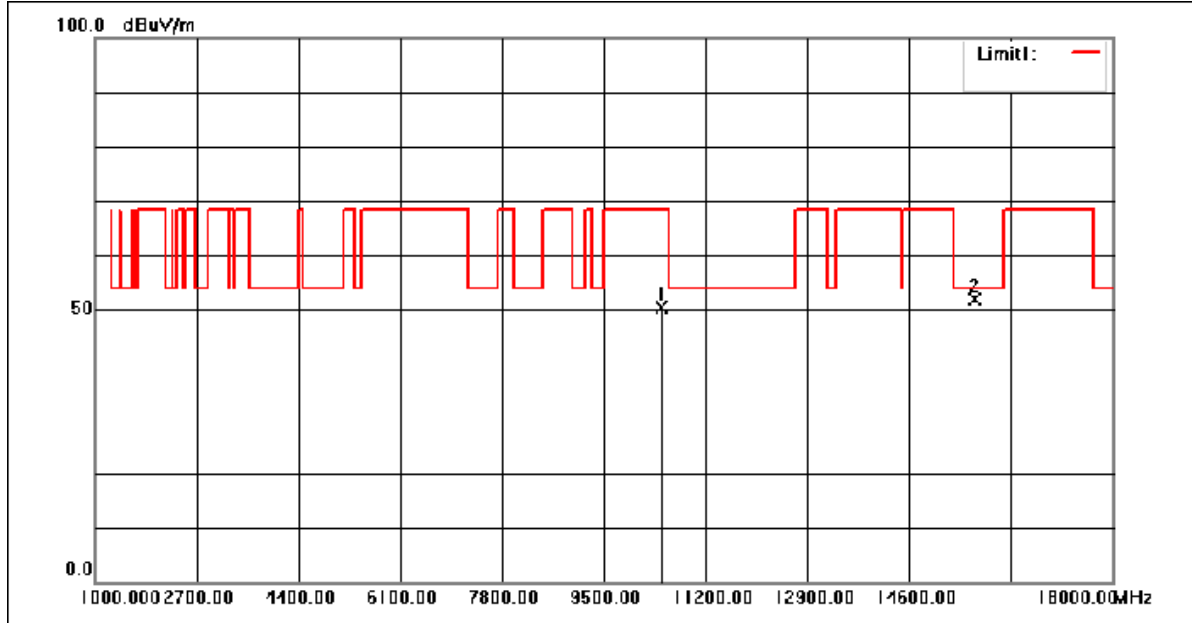
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Mode: b; Polarization: Horizontal; Modulation: n; bandwidth: 40MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	50.05	0.36	50.41	68.30	-17.89	peak
2	15690.000	45.78	6.04	51.82	54.00	-2.18	peak



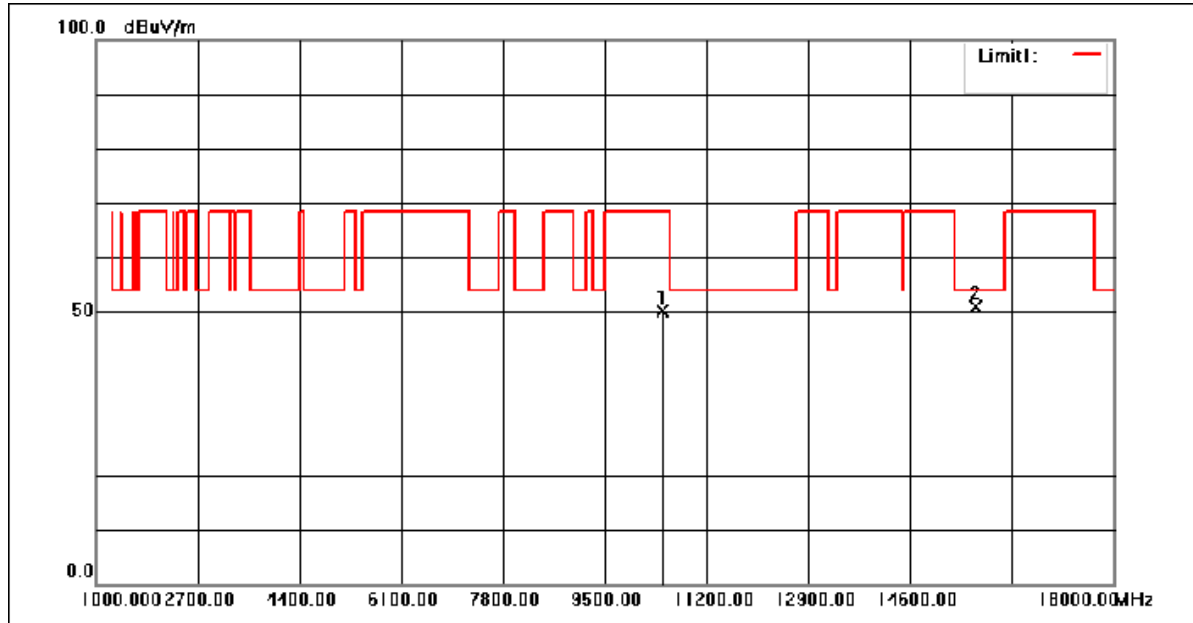
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Mode: b; Polarization: Vertical; Modulation: n; bandwidth: 40MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	49.88	0.36	50.24	68.30	-18.06	peak
2	15690.000	44.81	6.04	50.85	54.00	-3.15	peak



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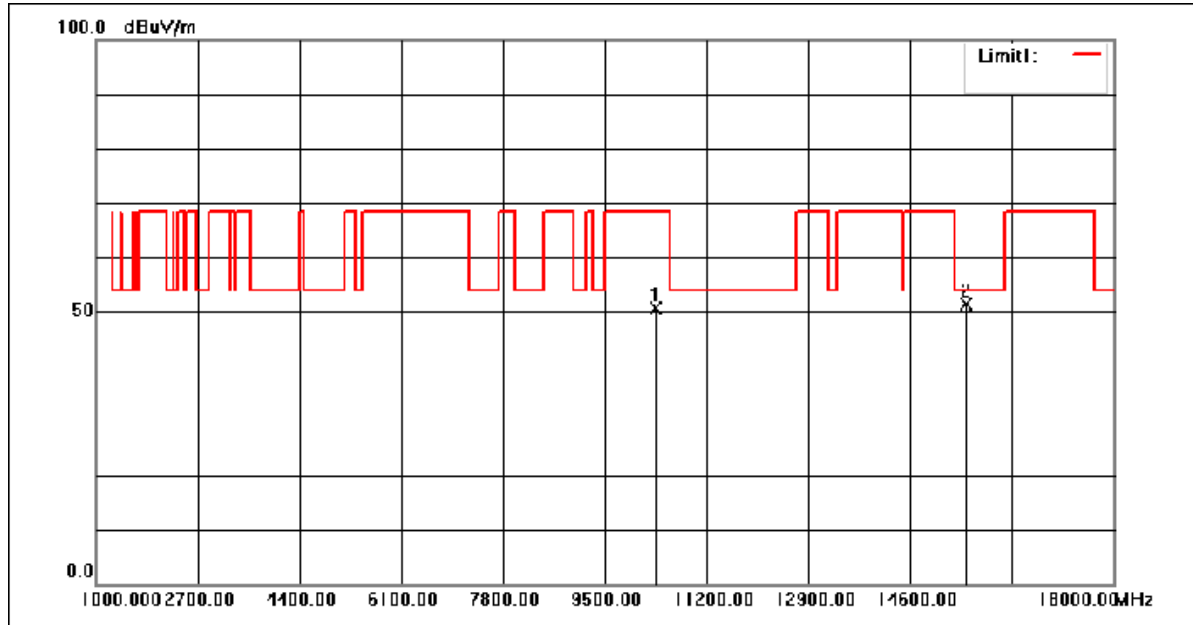
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Mode: b; Polarization: Horizontal; Modulation: c; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	50.45	0.16	50.61	68.30	-17.69	peak
2	15540.000	45.64	5.73	51.37	54.00	-2.63	peak



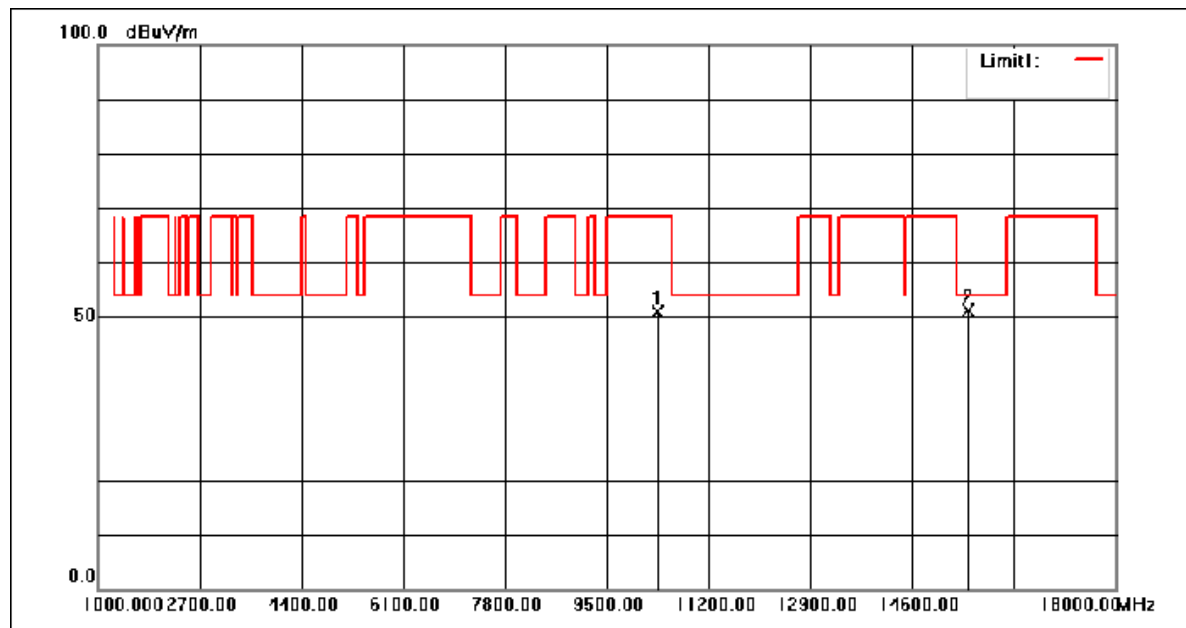
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Mode: b; Polarization: Vertical; Modulation: c; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	50.62	0.16	50.78	68.30	-17.52	peak
2	15540.000	45.31	5.73	51.04	54.00	-2.96	peak

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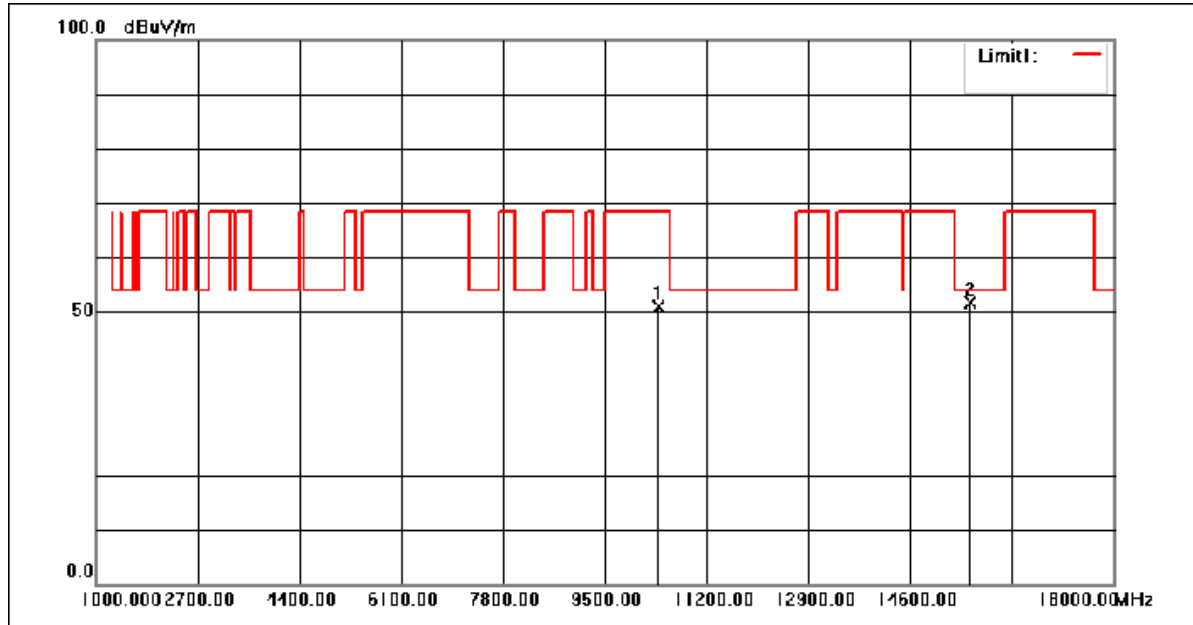
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Mode: b; Polarization: Horizontal; Modulation: c; bandwidth: 20MHz; Channel: middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	50.65	0.24	50.89	68.30	-17.41	peak
2	15600.000	45.80	5.85	51.65	54.00	-2.35	peak



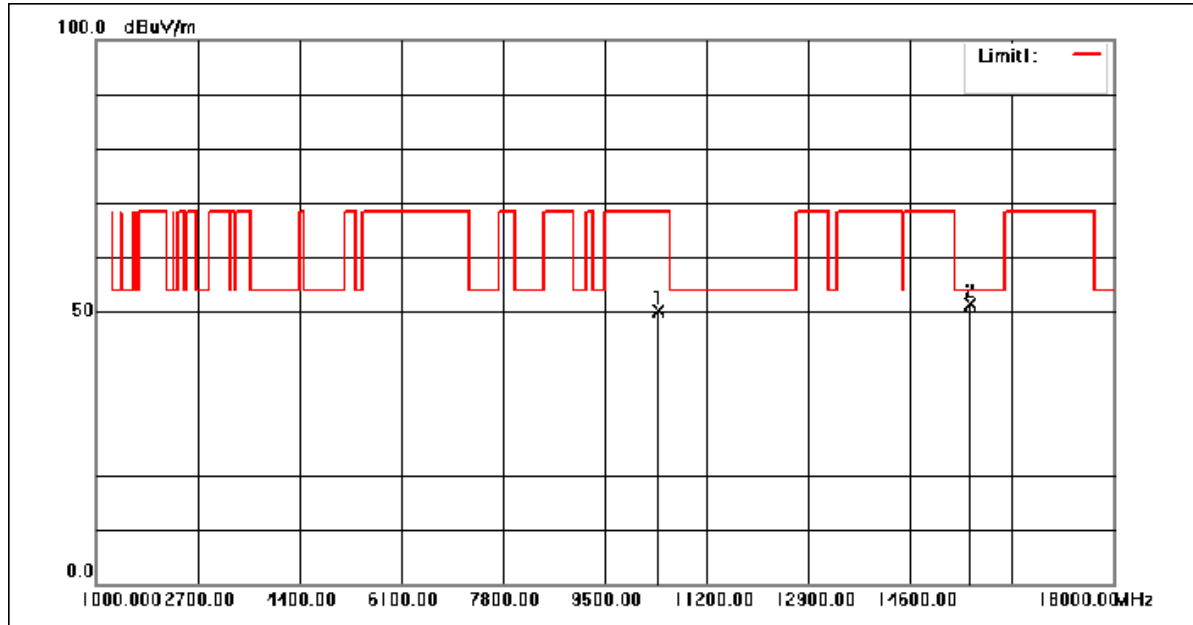
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Mode: b; Polarization: Vertical; Modulation: c; bandwidth: 20MHz; Channel: middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	49.85	0.24	50.09	68.30	-18.21	peak
2	15600.000	45.41	5.85	51.26	54.00	-2.74	peak



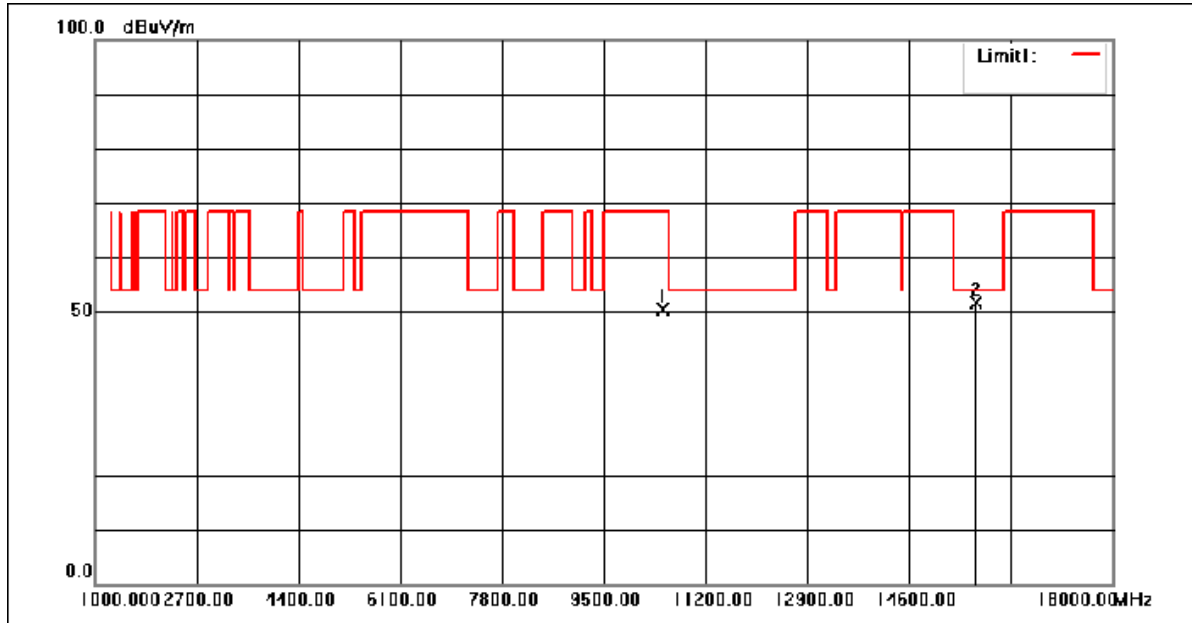
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Mode: b; Polarization: Horizontal; Modulation: c; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	50.05	0.40	50.45	68.30	-17.85	peak
2	15720.000	45.65	6.10	51.75	54.00	-2.25	peak



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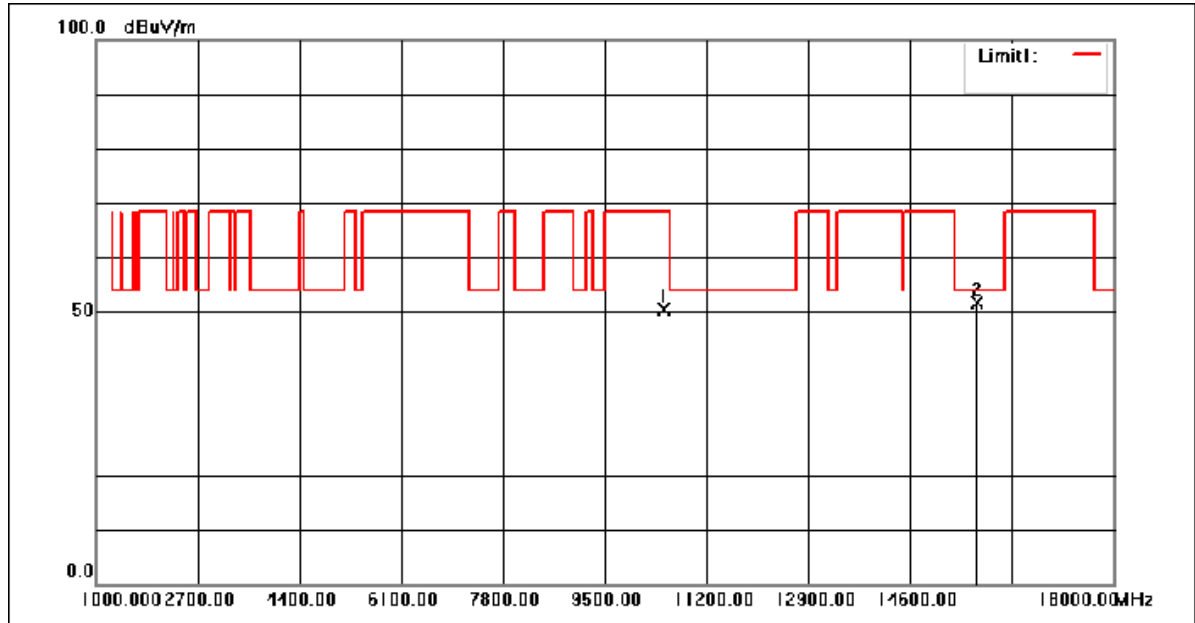
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Mode: b; Polarization: Vertical; Modulation: c; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	49.96	0.40	50.36	68.30	-17.94	peak
2	15720.000	45.57	6.10	51.67	54.00	-2.33	peak



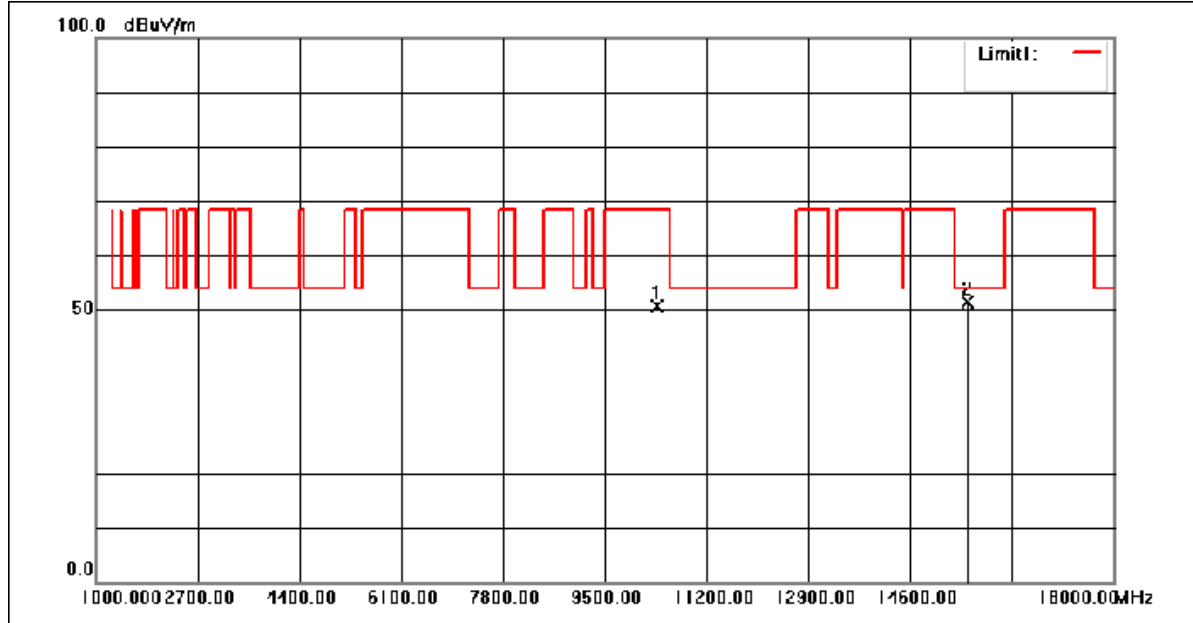
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Mode: b; Polarization: Horizontal; Modulation: c; bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	50.46	0.20	50.66	68.30	-17.64	peak
2	15570.000	45.56	5.79	51.35	54.00	-2.65	peak



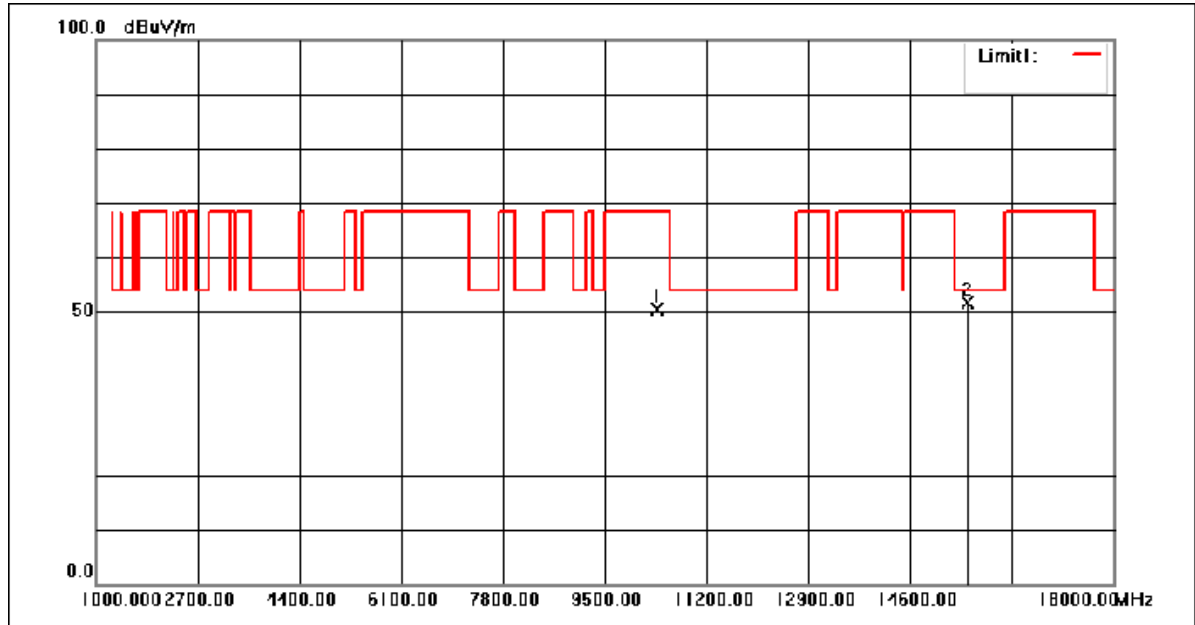
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Mode: b; Polarization: Vertical; Modulation: c; bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	50.26	0.20	50.46	68.30	-17.84	peak
2	15570.000	45.92	5.79	51.71	54.00	-2.29	peak



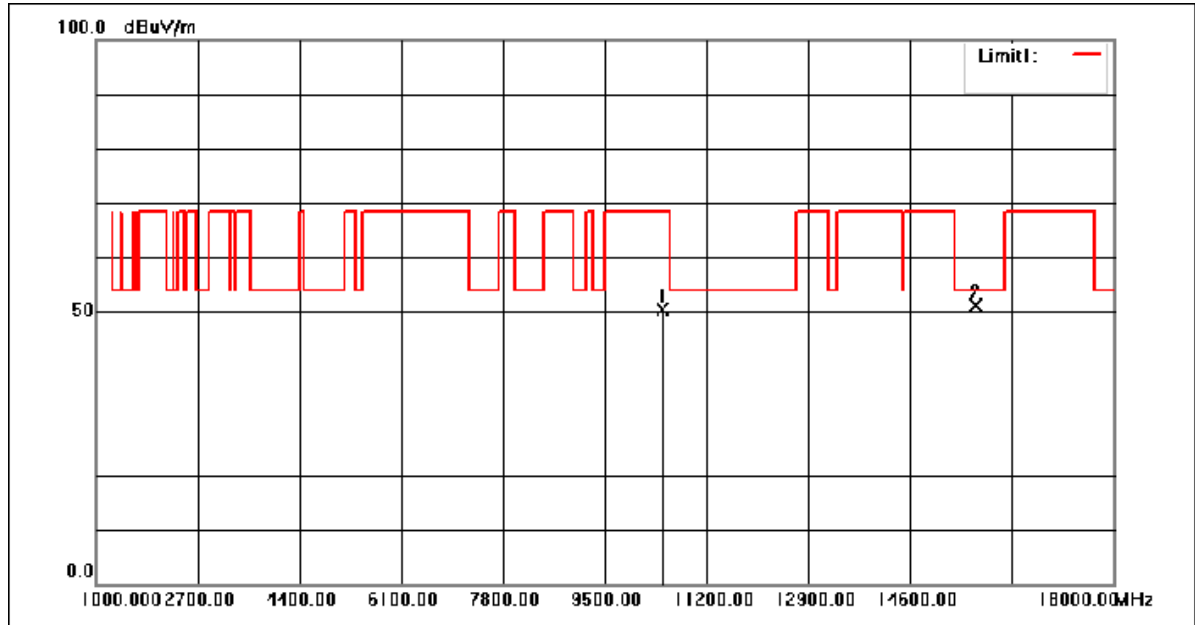
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Mode: b; Polarization: Horizontal; Modulation: c; bandwidth: 40MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	49.95	0.36	50.31	68.30	-17.99	peak
2	15690.000	45.00	6.04	51.04	54.00	-2.96	peak



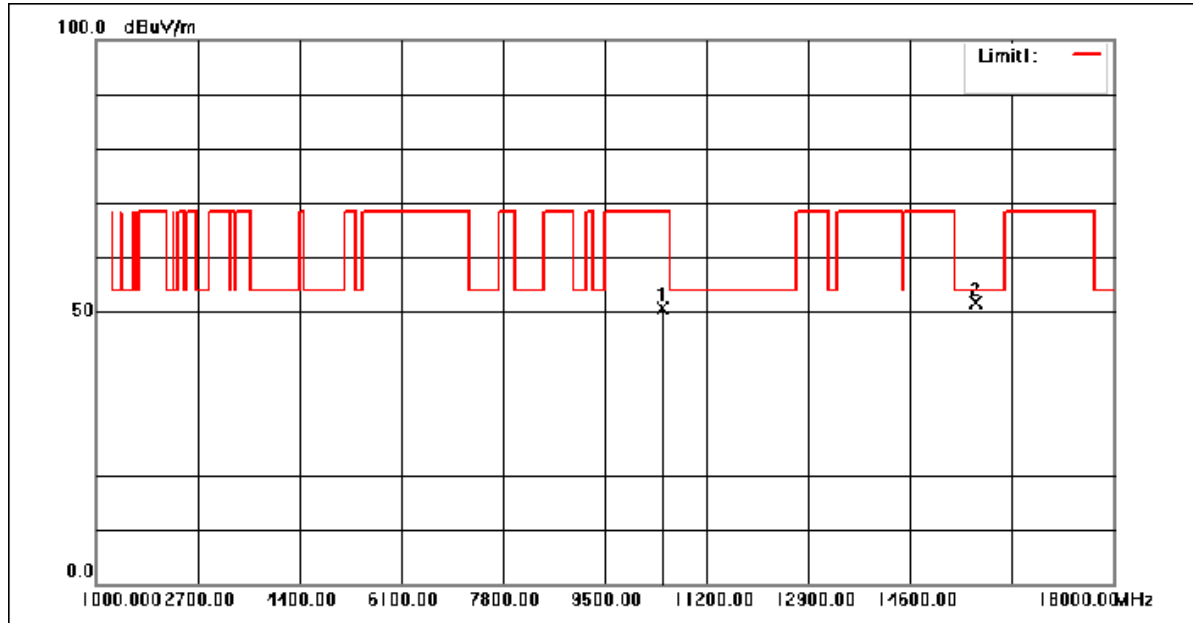
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Mode: b; Polarization: Vertical; Modulation: c; bandwidth: 40MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	50.23	0.36	50.59	68.30	-17.71	peak
2	15690.000	45.63	6.04	51.67	54.00	-2.33	peak

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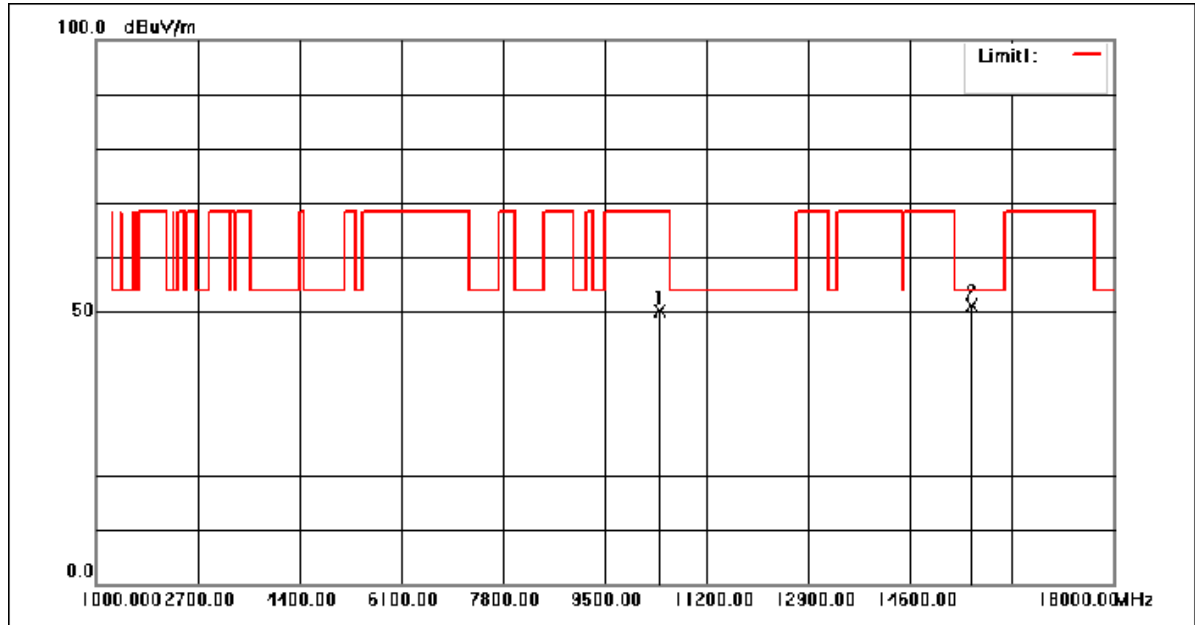
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Mode: b; Polarization: Horizontal; Modulation: c; bandwidth: 80MHz; Channel: middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10420.000	49.91	0.28	50.19	68.30	-18.11	peak
2	15630.000	45.33	5.92	51.25	54.00	-2.75	peak



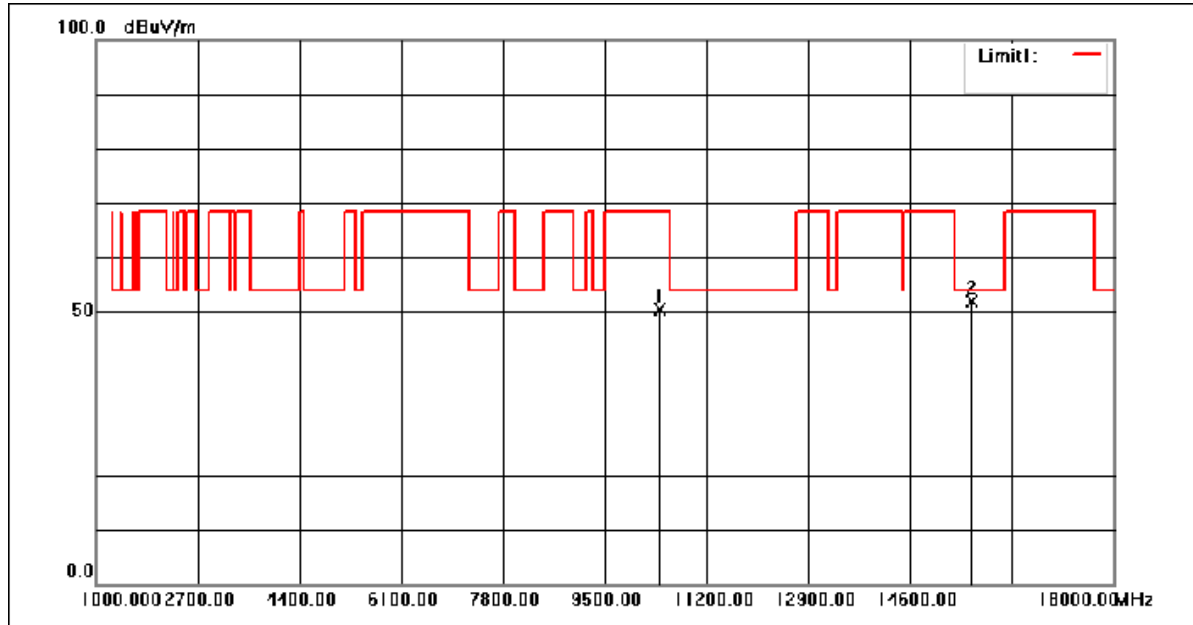
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Mode: b; Polarization: Vertical; Modulation: c; bandwidth: 80MHz; Channel: middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10420.000	50.10	0.28	50.38	68.30	-17.92	peak
2	15630.000	45.95	5.92	51.87	54.00	-2.13	peak



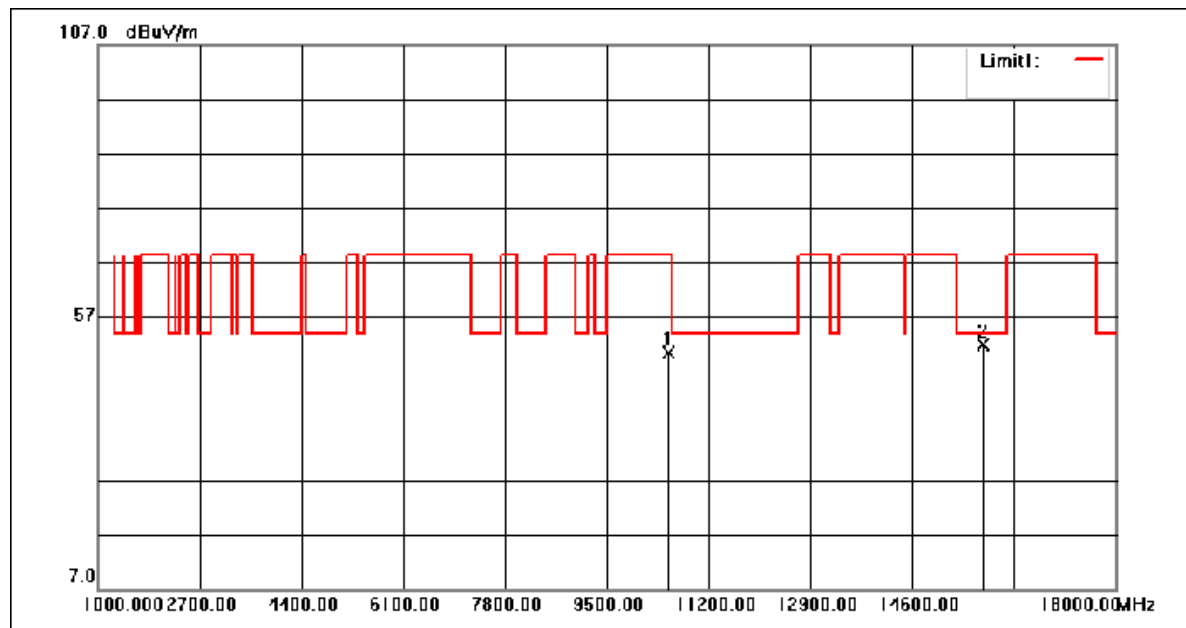
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Mode: c; Polarization: Horizontal; Modulation: a; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	49.82	0.44	50.26	68.30	-18.04	peak
2	15780.000	45.58	6.23	51.81	54.00	-2.19	peak



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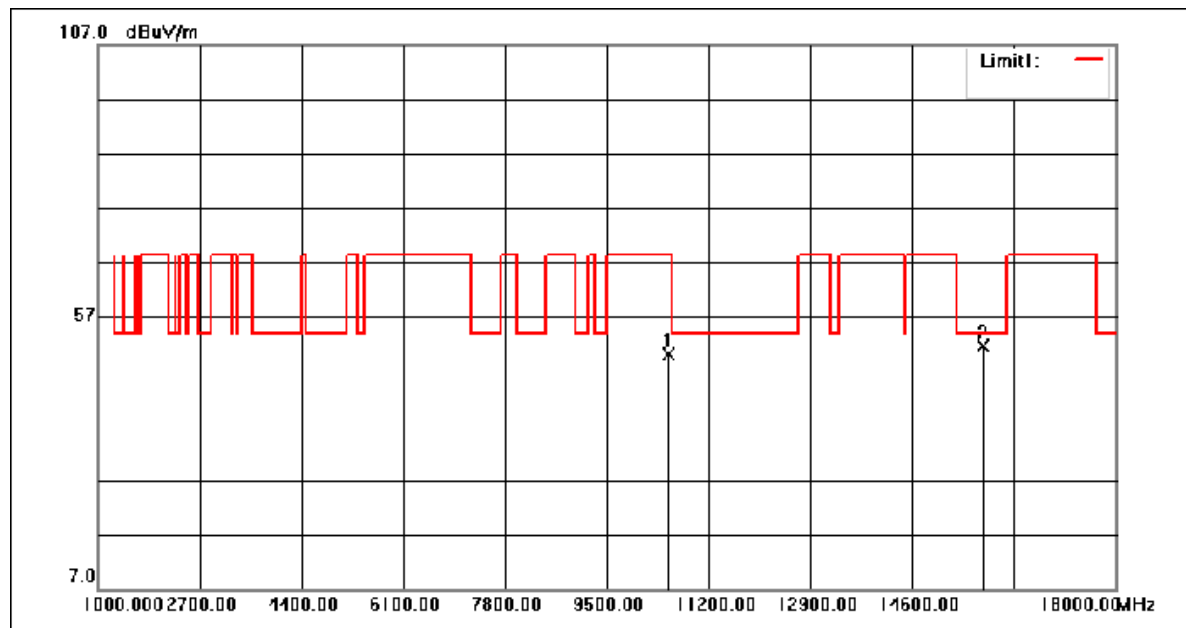
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Mode: c; Polarization: Vertical; Modulation: a; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	49.67	0.44	50.11	68.30	-18.19	peak
2	15780.000	45.33	6.23	51.56	54.00	-2.44	peak

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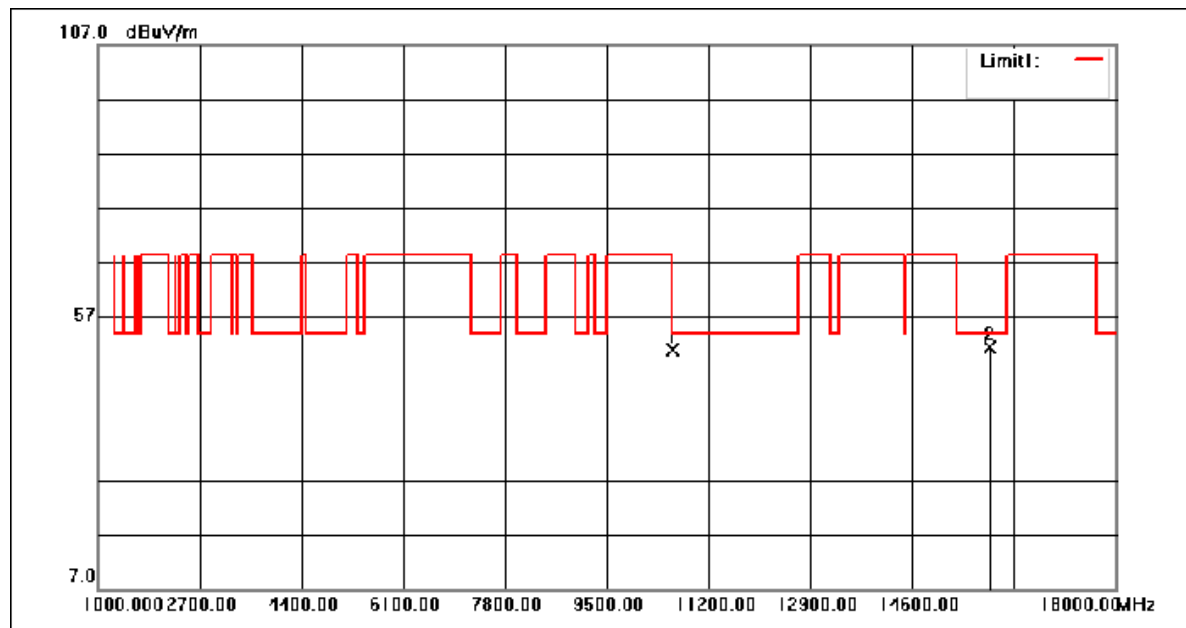
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Mode: c; Polarization: Horizontal; Modulation: a; bandwidth: 20MHz; Channel: middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10600.000	50.41	0.46	50.87	54.00	-3.13	peak
2	15900.000	44.82	6.48	51.30	54.00	-2.70	peak



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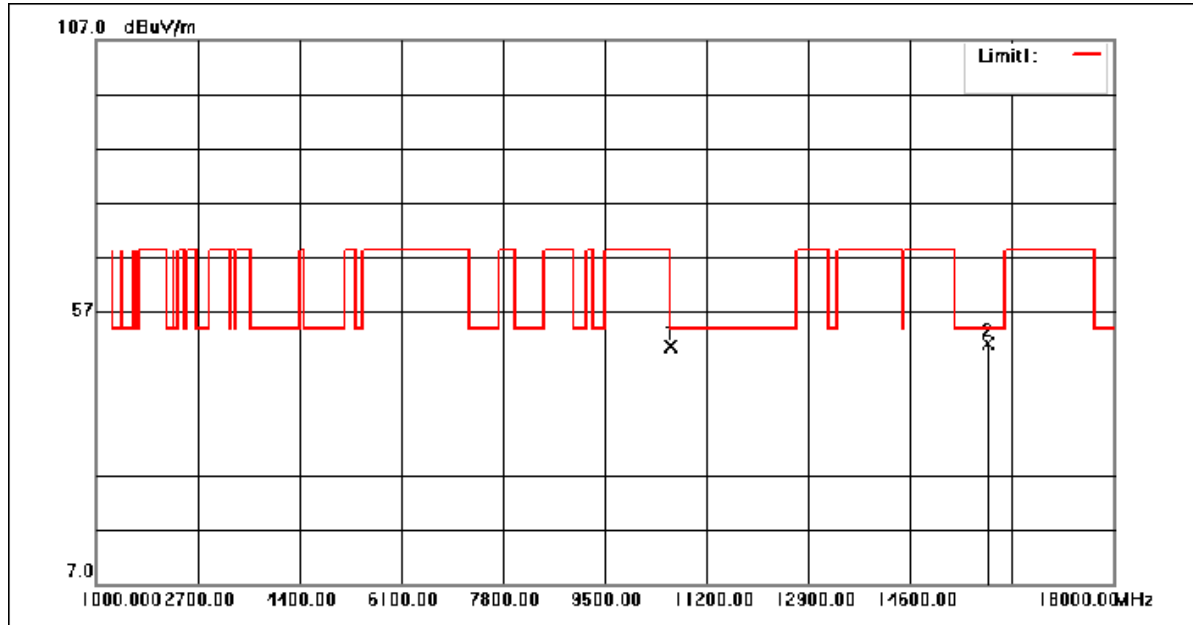
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Mode: c; Polarization: Vertical; Modulation: a; bandwidth: 20MHz; Channel: middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10600.000	50.12	0.46	50.58	54.00	-3.42	peak
2	15900.000	44.67	6.48	51.15	54.00	-2.85	peak



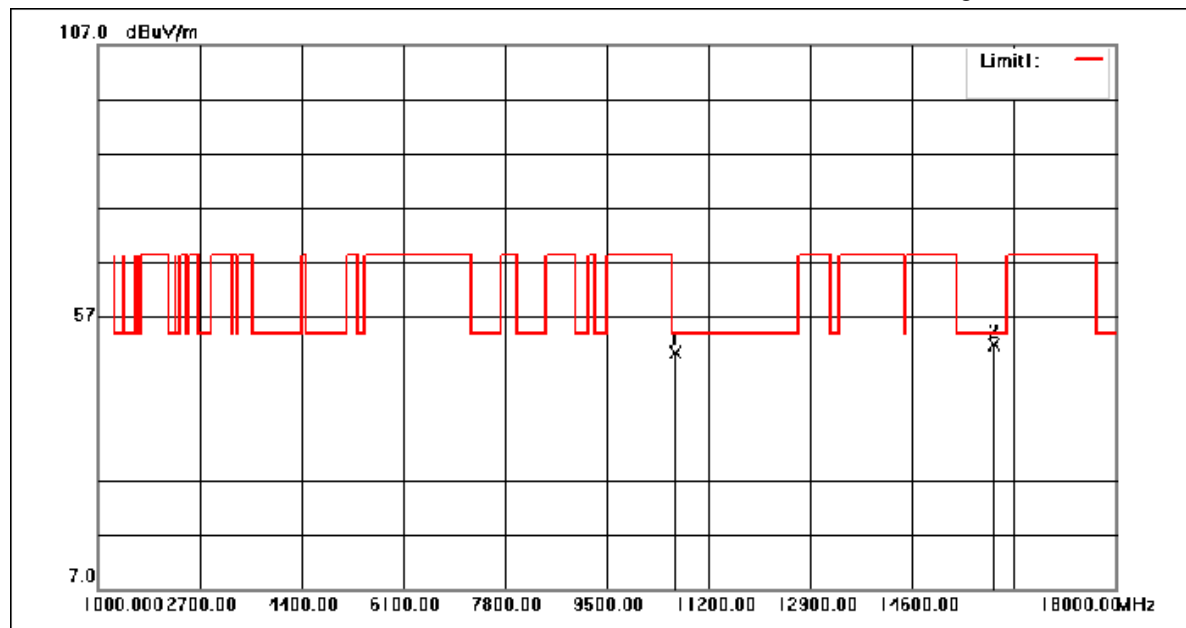
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Mode: c; Polarization: Horizontal; Modulation: a; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	49.93	0.46	50.39	54.00	-3.61	peak
2	15960.000	45.25	6.60	51.85	54.00	-2.15	peak



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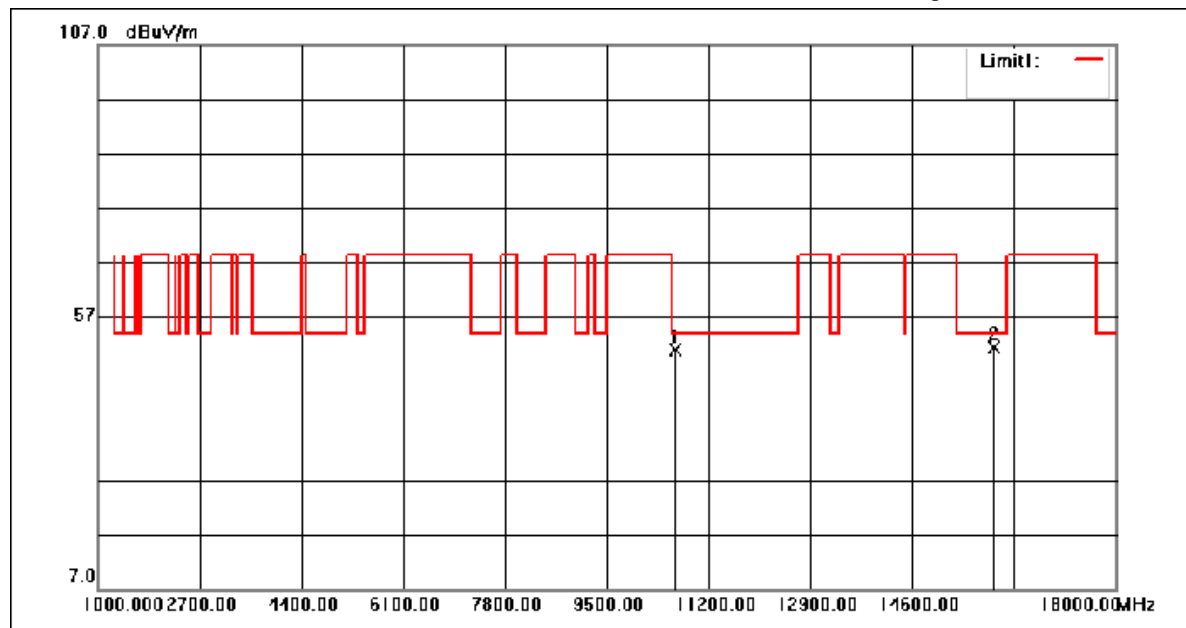
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Mode: c; Polarization: Vertical; Modulation: a; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	50.31	0.46	50.77	54.00	-3.23	peak
2	15960.000	44.86	6.60	51.46	54.00	-2.54	peak



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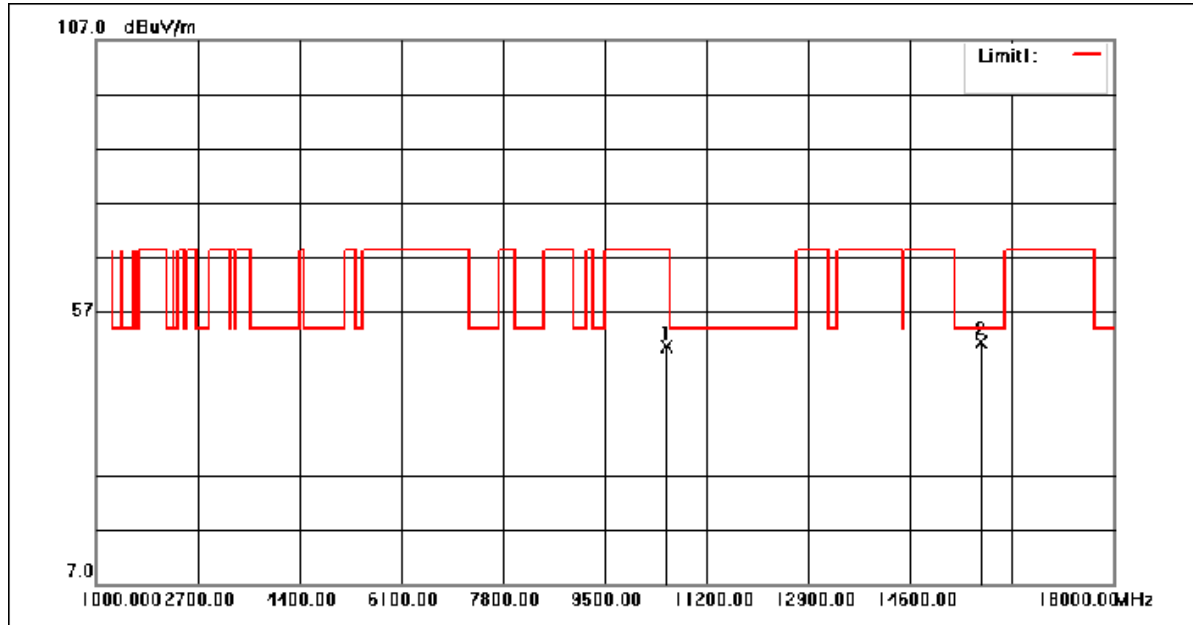
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Mode: c; Polarization: Horizontal; Modulation: n; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	50.20	0.44	50.64	68.30	-17.66	peak
2	15780.000	45.10	6.23	51.33	54.00	-2.67	peak



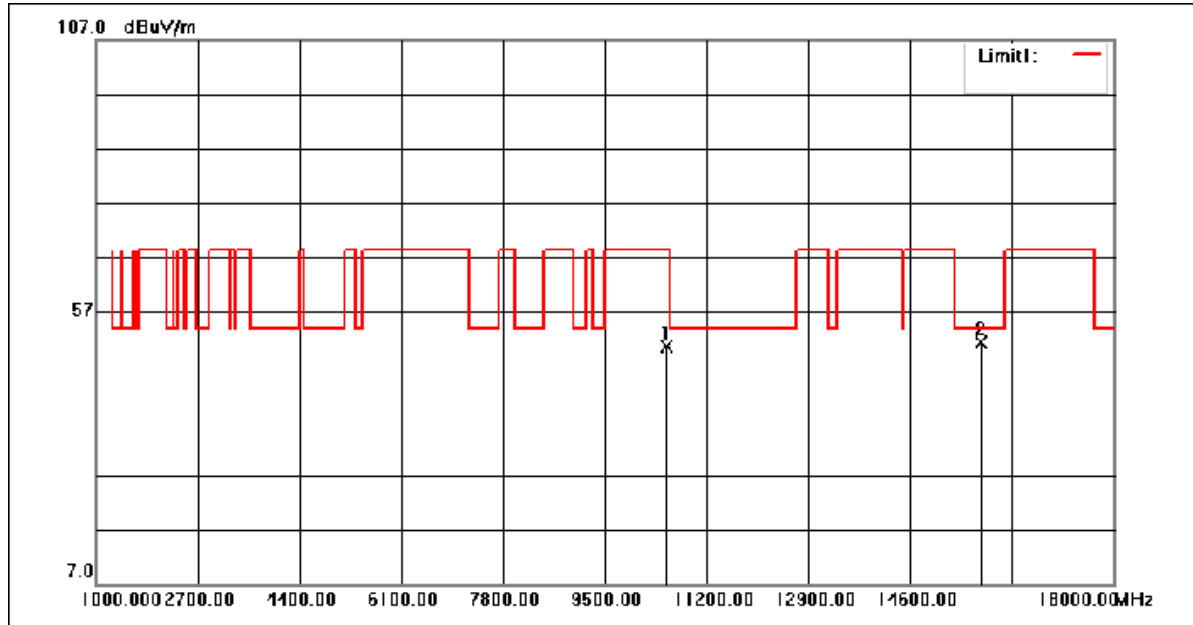
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Mode: c; Polarization: Vertical; Modulation: n; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	50.30	0.44	50.74	68.30	-17.56	peak
2	15780.000	45.05	6.23	51.28	54.00	-2.72	peak



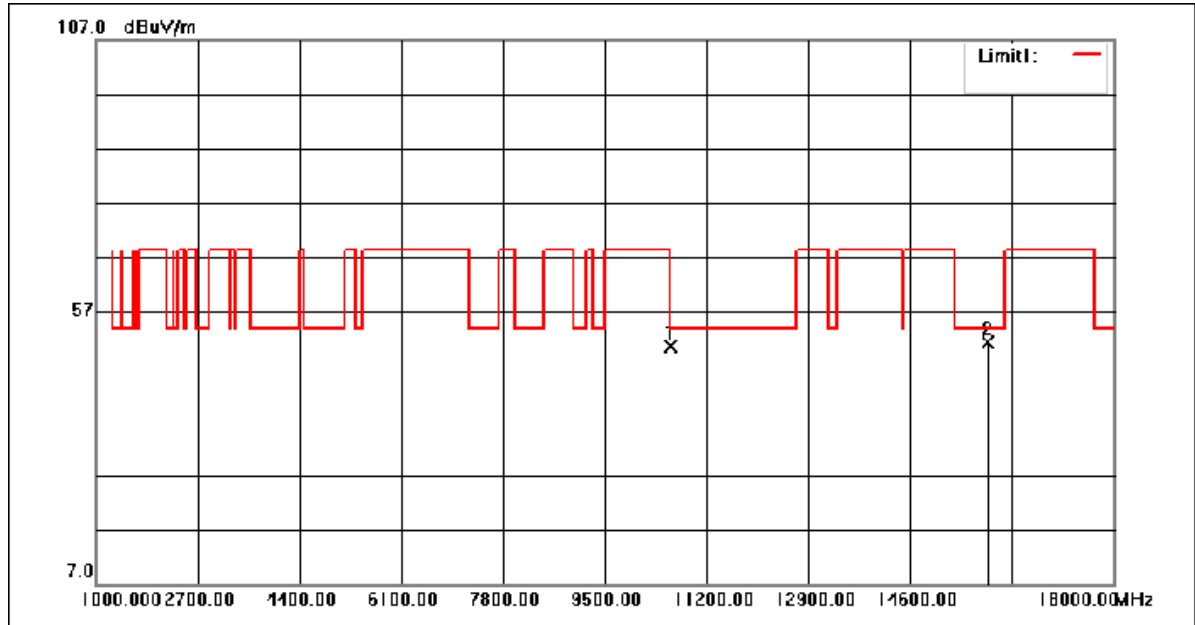
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Mode: c; Polarization: Horizontal; Modulation: n; bandwidth: 20MHz; Channel: middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10600.000	50.21	0.46	50.67	54.00	-3.33	peak
2	15900.000	45.01	6.48	51.49	54.00	-2.51	peak



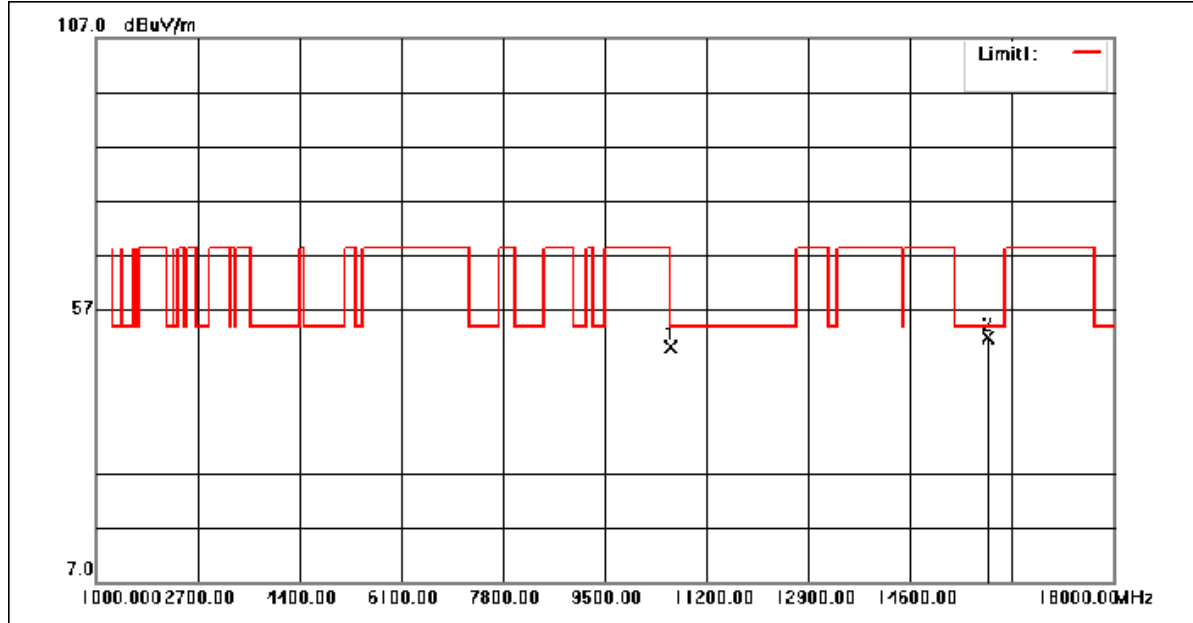
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Mode: c; Polarization: Vertical; Modulation: n; bandwidth: 20MHz; Channel: middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10600.000	49.78	0.46	50.24	54.00	-3.76	peak
2	15900.000	45.38	6.48	51.86	54.00	-2.14	peak



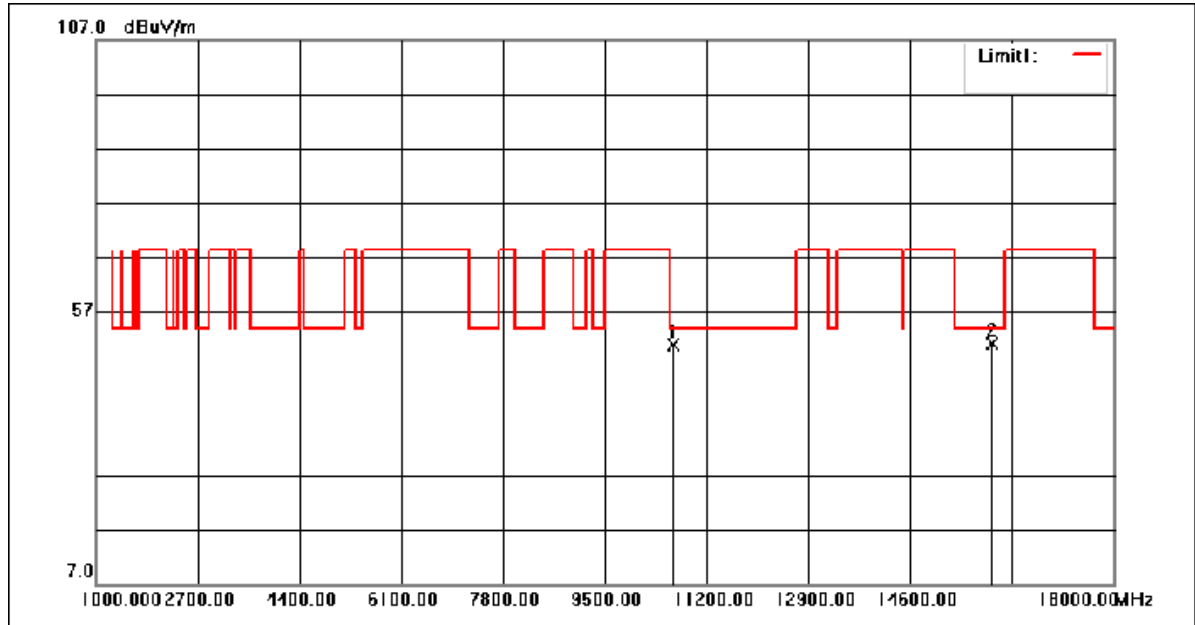
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Mode: c; Polarization: Horizontal; Modulation: n; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	50.34	0.46	50.80	54.00	-3.20	peak
2	15960.000	44.63	6.60	51.23	54.00	-2.77	peak



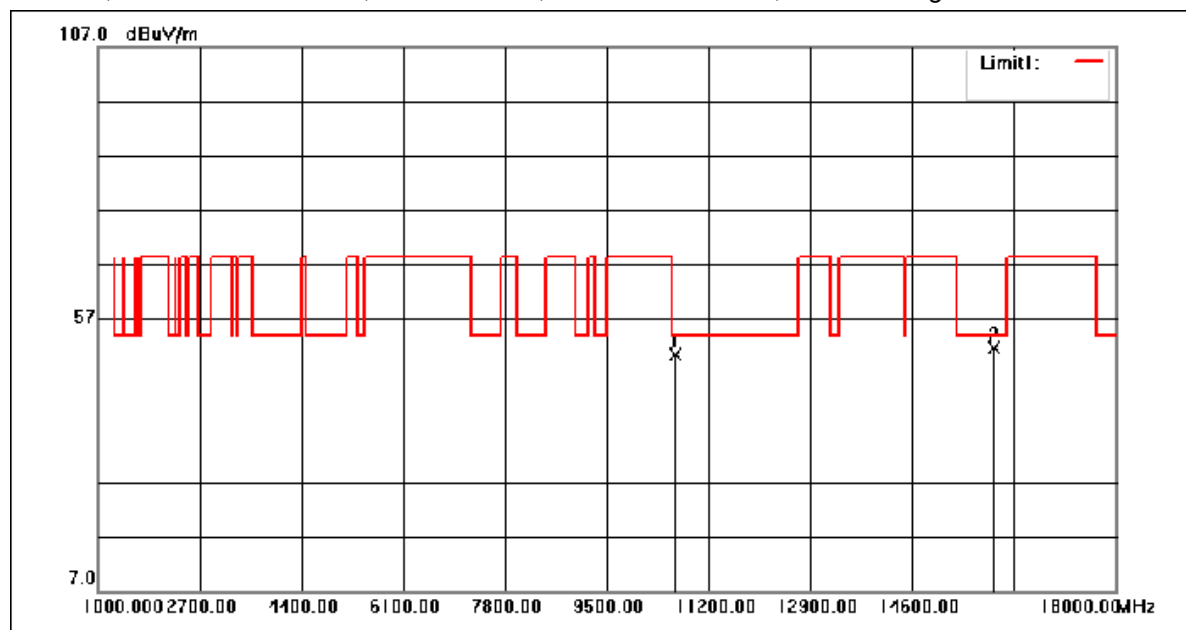
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Mode: c; Polarization: Vertical; Modulation: n; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	49.88	0.46	50.34	54.00	-3.66	peak
2	15960.000	45.12	6.60	51.72	54.00	-2.28	peak



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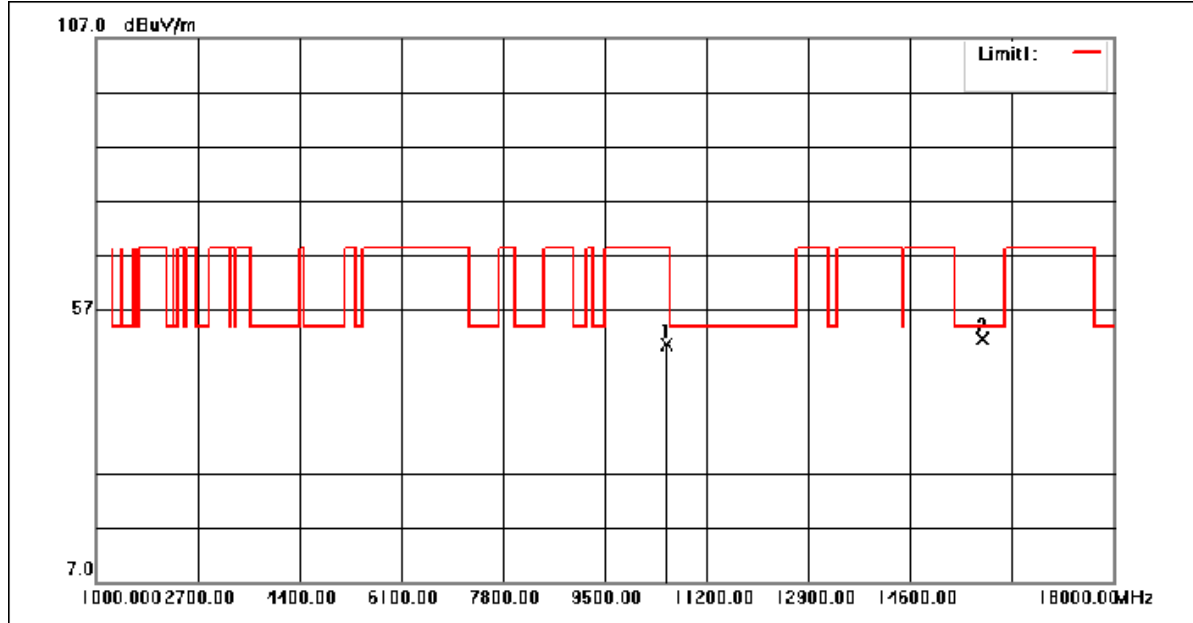
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Mode: c; Polarization: Horizontal; Modulation: n; bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10540.000	50.24	0.44	50.68	68.30	-17.62	peak
2	15810.000	45.42	6.29	51.71	54.00	-2.29	peak



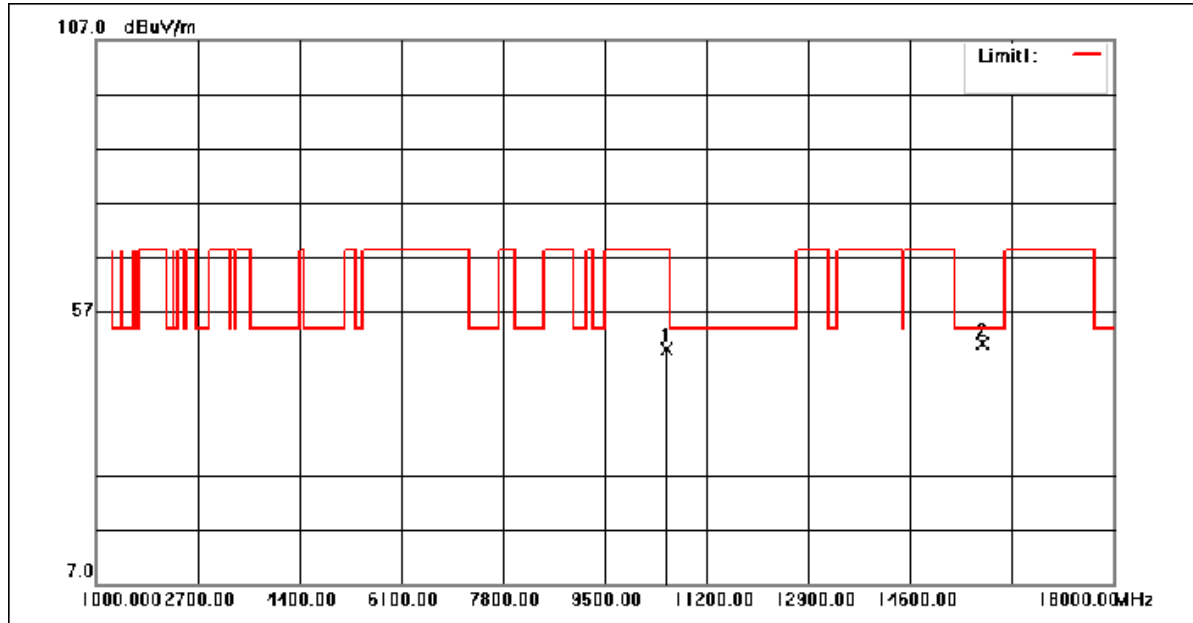
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Mode: c; Polarization: Vertical; Modulation: n; bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10540.000	49.58	0.44	50.02	68.30	-18.28	peak
2	15810.000	44.93	6.29	51.22	54.00	-2.78	peak

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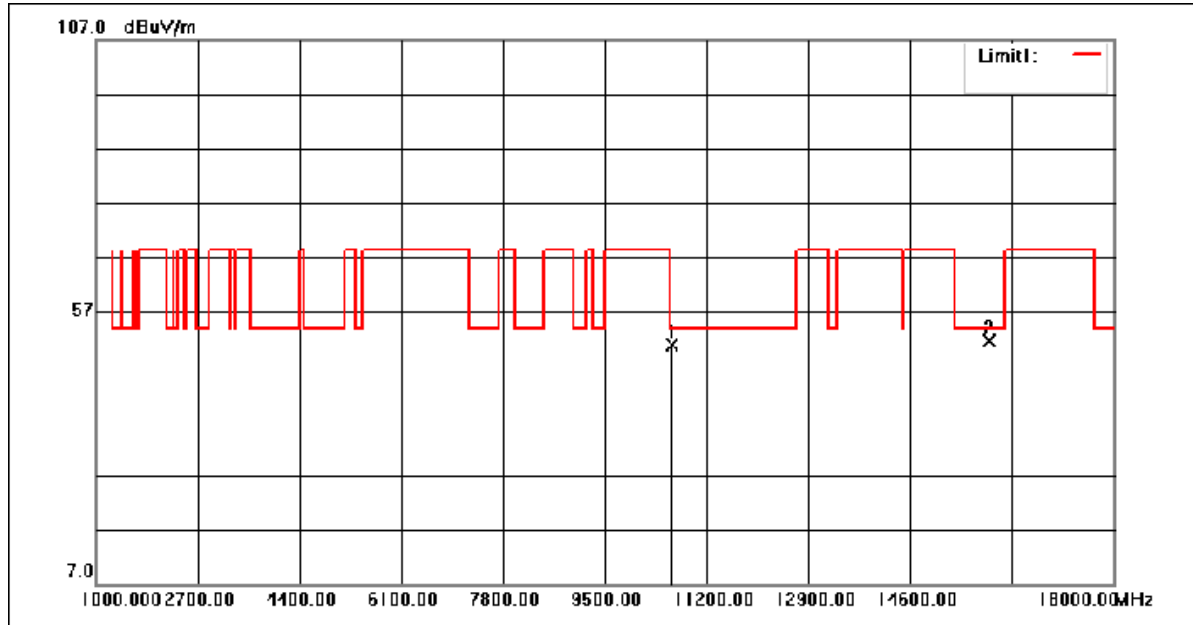
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Mode: c; Polarization: Horizontal; Modulation: n; bandwidth: 40MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10620.000	50.47	0.46	50.93	54.00	-3.07	peak
2	15930.000	45.16	6.54	51.70	54.00	-2.30	peak



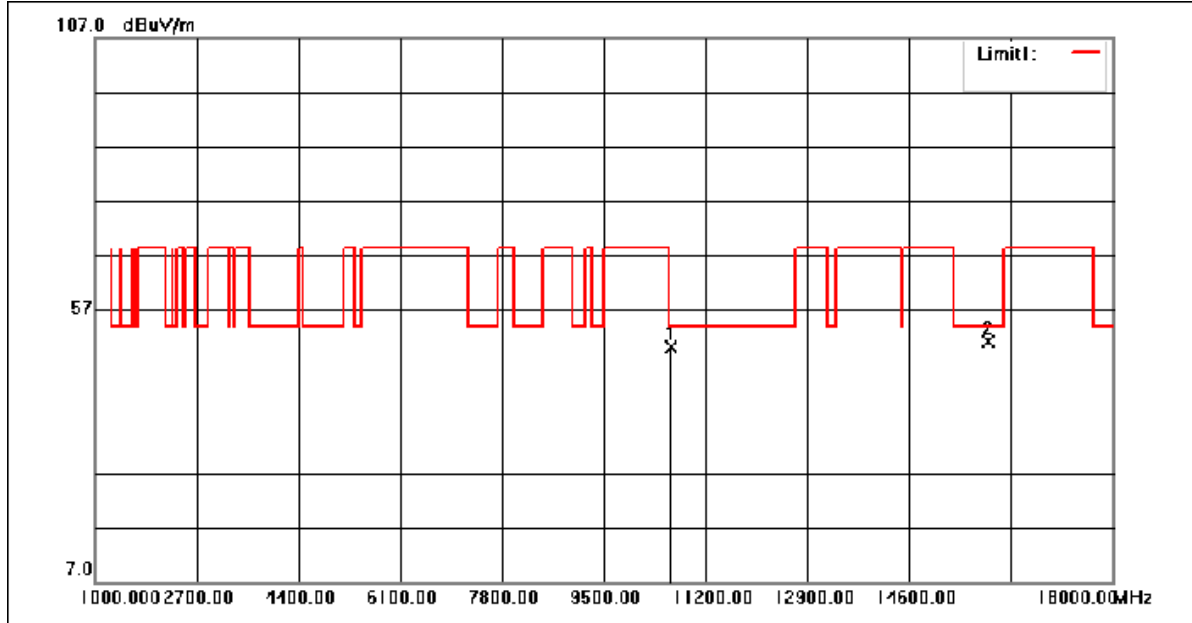
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Mode: c; Polarization: Vertical; Modulation: n; bandwidth: 40MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10620.000	49.77	0.46	50.23	54.00	-3.77	peak
2	15930.000	44.52	6.54	51.06	54.00	-2.94	peak



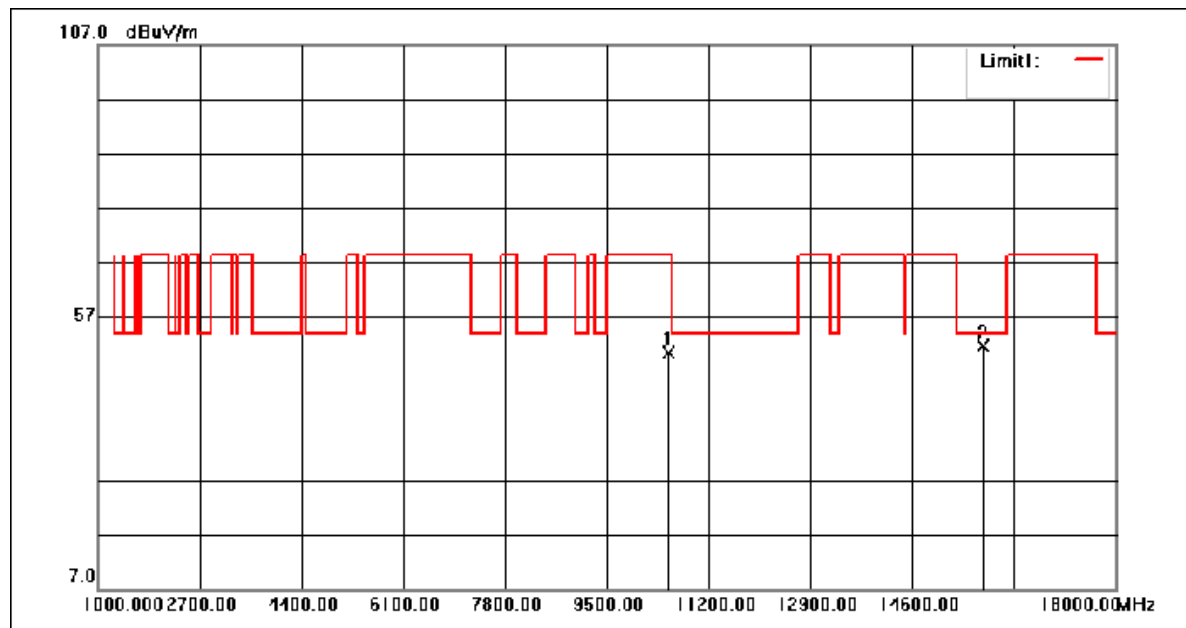
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Mode: c; Polarization: Horizontal; Modulation: c; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	49.97	0.44	50.41	68.30	-17.89	peak
2	15780.000	45.48	6.23	51.71	54.00	-2.29	peak

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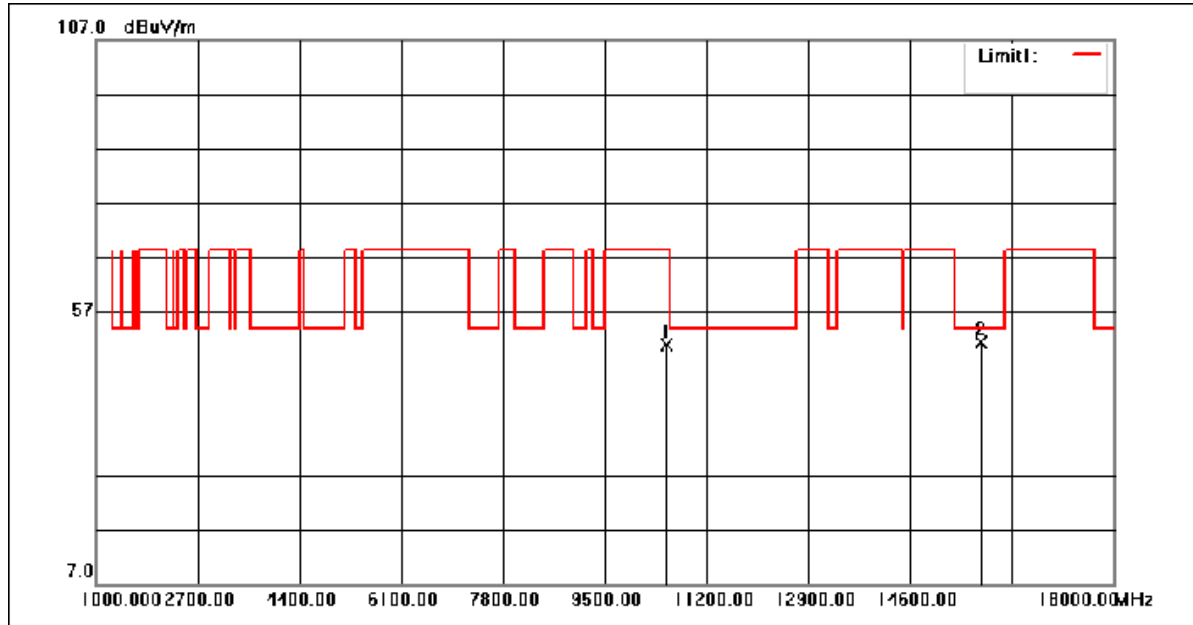
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Mode: c; Polarization: Vertical; Modulation: c; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	50.47	0.44	50.91	68.30	-17.39	peak
2	15780.000	45.13	6.23	51.36	54.00	-2.64	peak



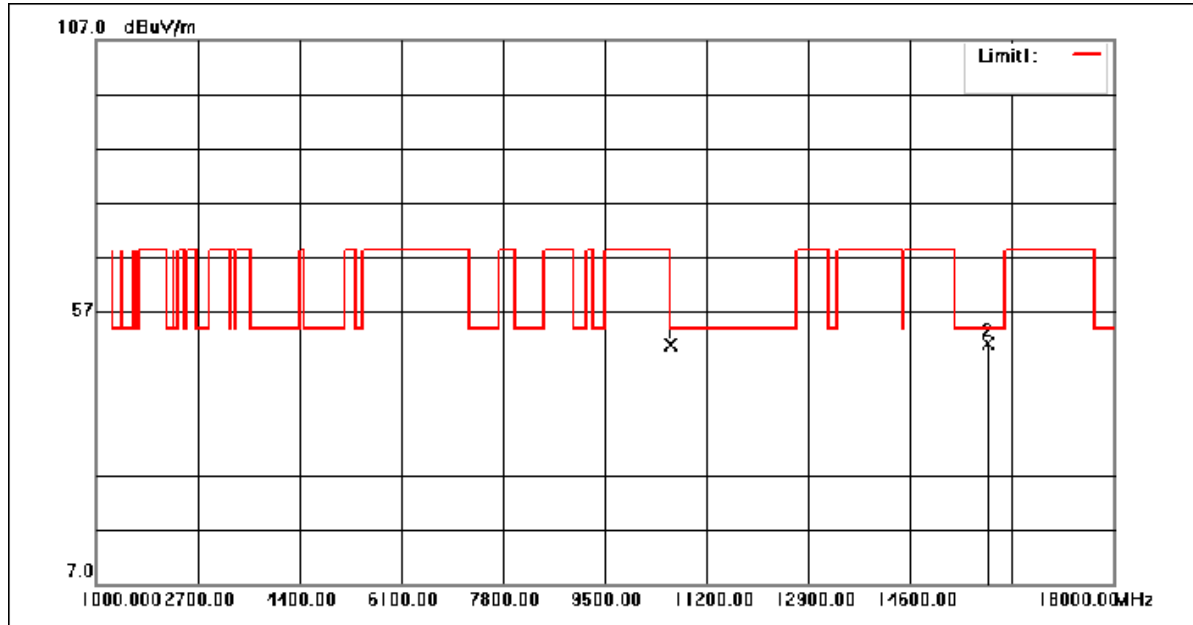
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Mode: c; Polarization: Horizontal; Modulation: c; bandwidth: 20MHz; Channel: middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10600.000	50.52	0.46	50.98	54.00	-3.02	peak
2	15900.000	44.58	6.48	51.06	54.00	-2.94	peak



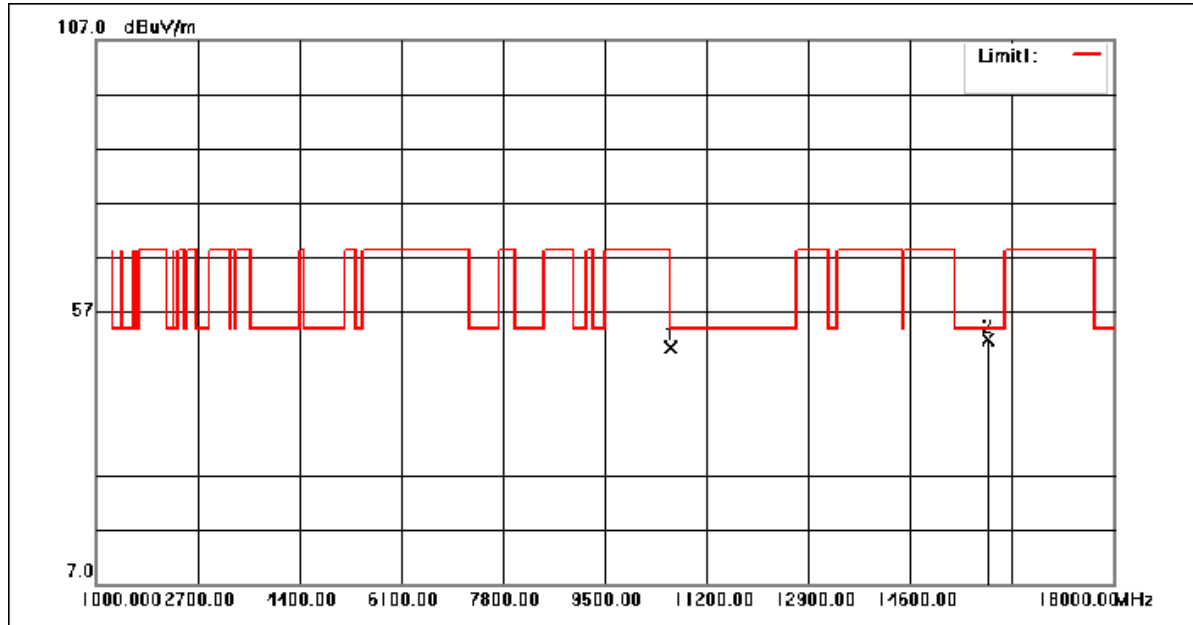
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t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10600.000	50.01	0.46	50.47	54.00	-3.53	peak
2	15900.000	45.30	6.48	51.78	54.00	-2.22	peak



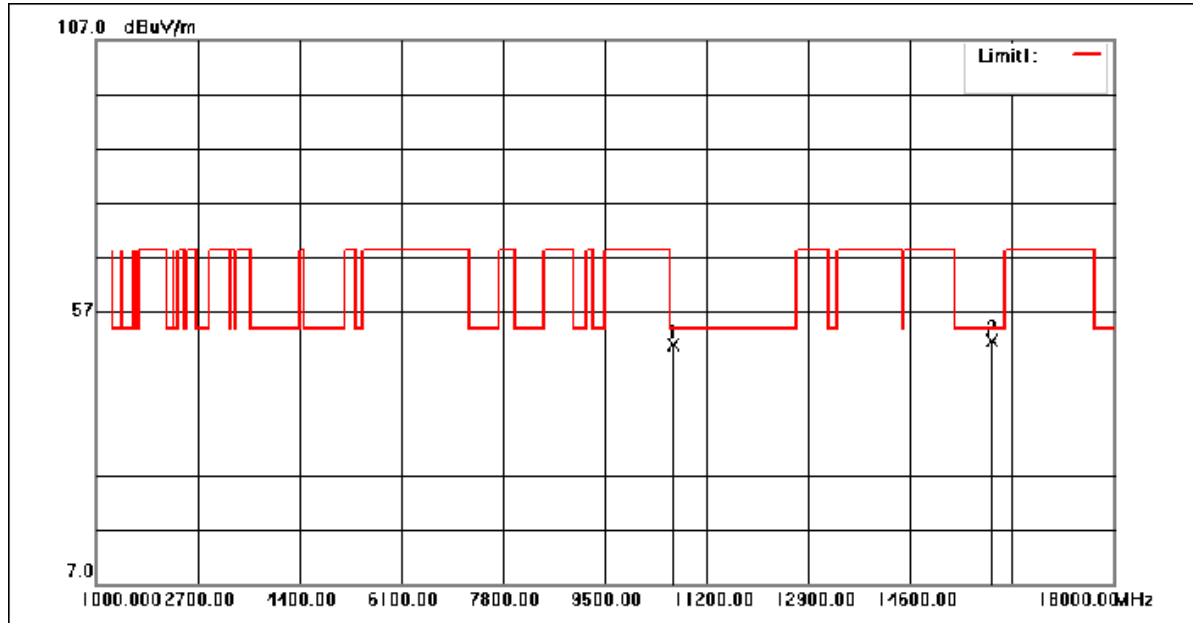
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Mode: c; Polarization: Horizontal; Modulation: c; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	50.45	0.46	50.91	54.00	-3.09	peak
2	15960.000	44.94	6.60	51.54	54.00	-2.46	peak



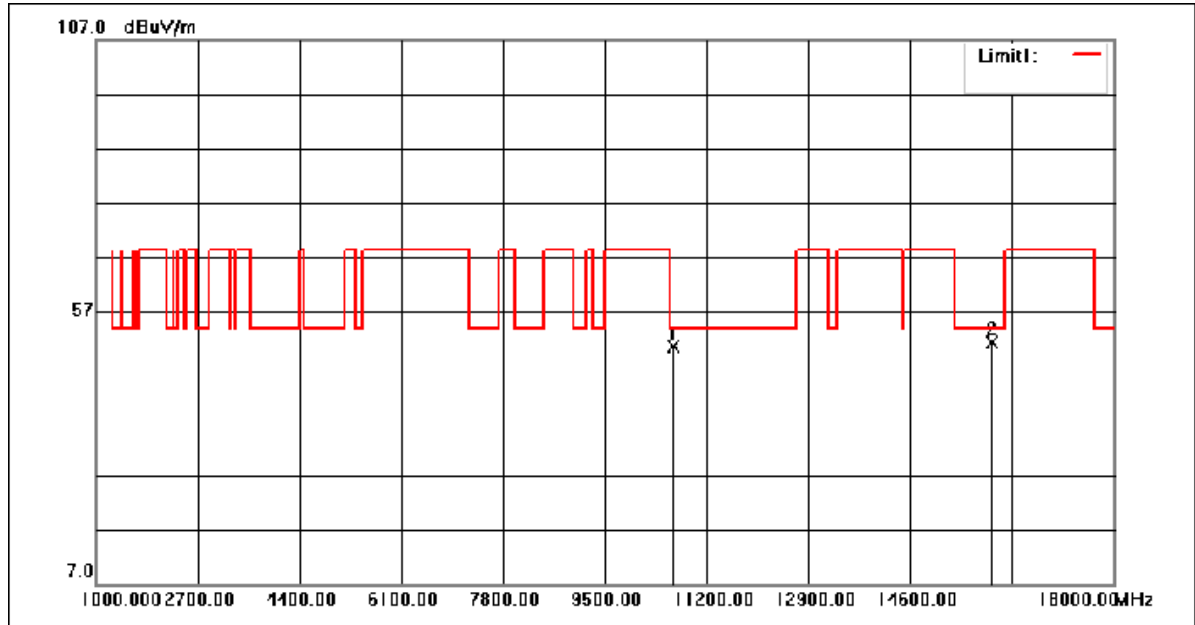
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Mode: c; Polarization: Vertical; Modulation: c; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	50.23	0.46	50.69	54.00	-3.31	peak
2	15960.000	44.77	6.60	51.37	54.00	-2.63	peak



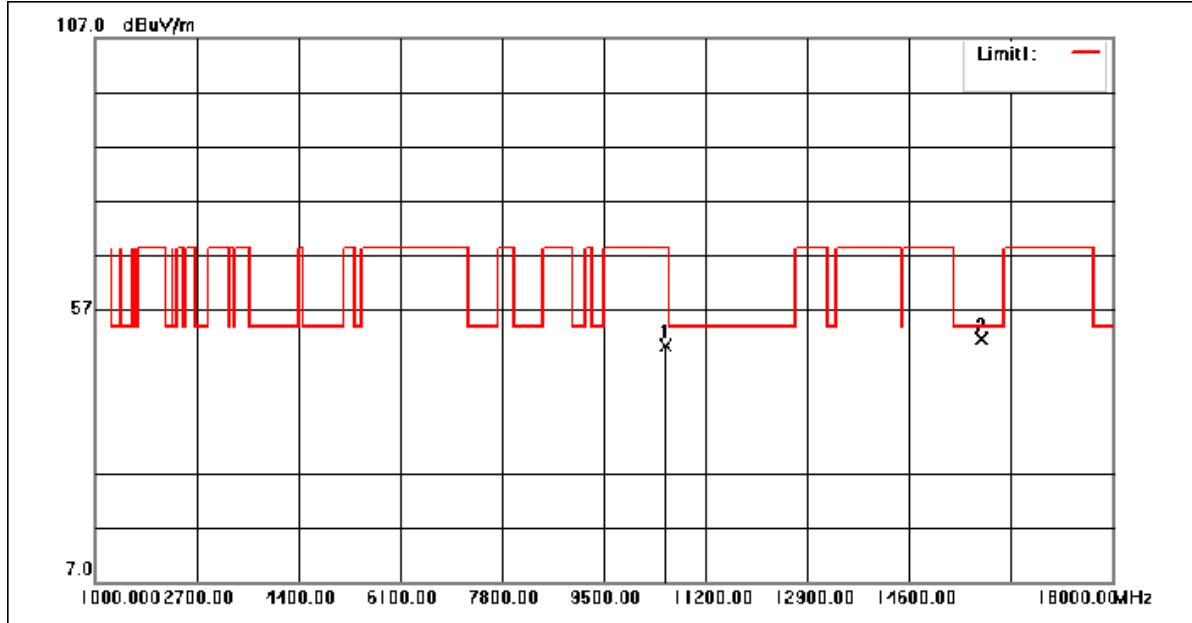
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Mode: c; Polarization: Horizontal; Modulation: c; bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10540.000	49.99	0.44	50.43	68.30	-17.87	peak
2	15810.000	45.30	6.29	51.59	54.00	-2.41	peak



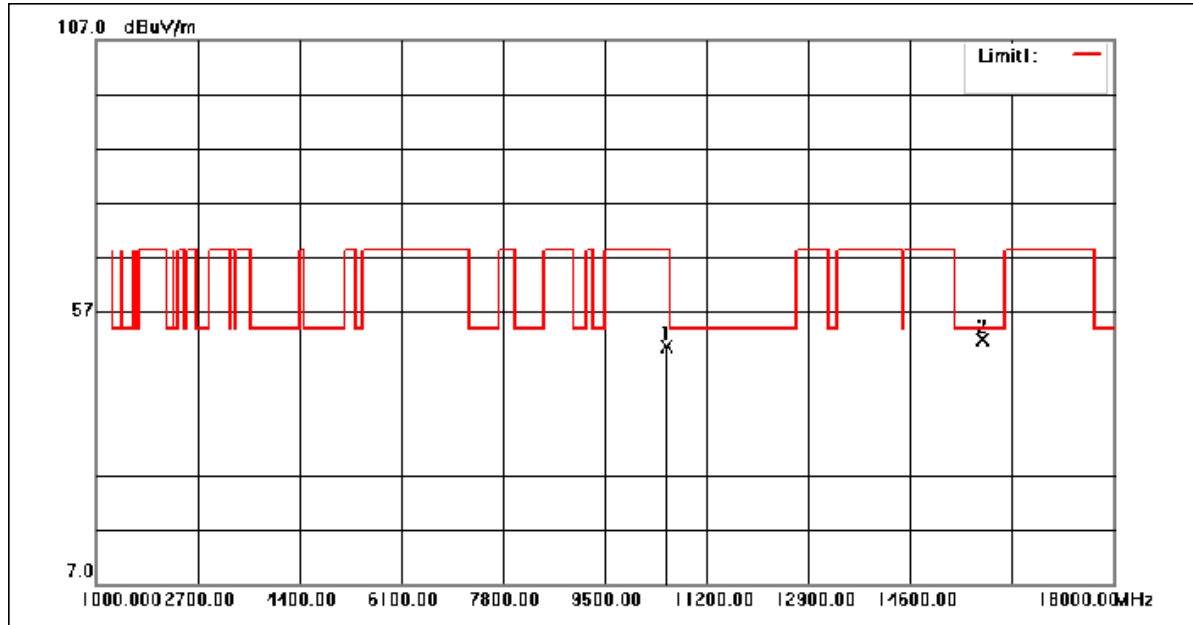
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Mode: c; Polarization: Vertical; Modulation: c; bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10540.000	50.09	0.44	50.53	68.30	-17.77	peak
2	15810.000	45.50	6.29	51.79	54.00	-2.21	peak



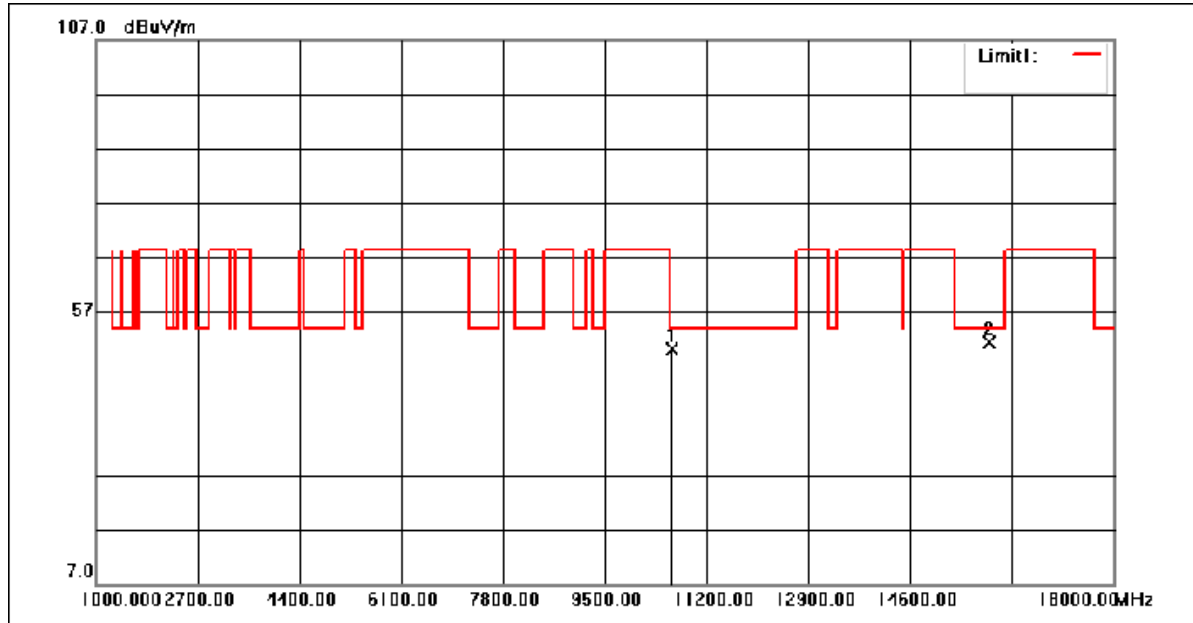
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Mode: c; Polarization: Horizontal; Modulation: c; bandwidth: 40MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10620.000	49.72	0.46	50.18	54.00	-3.82	peak
2	15930.000	44.72	6.54	51.26	54.00	-2.74	peak



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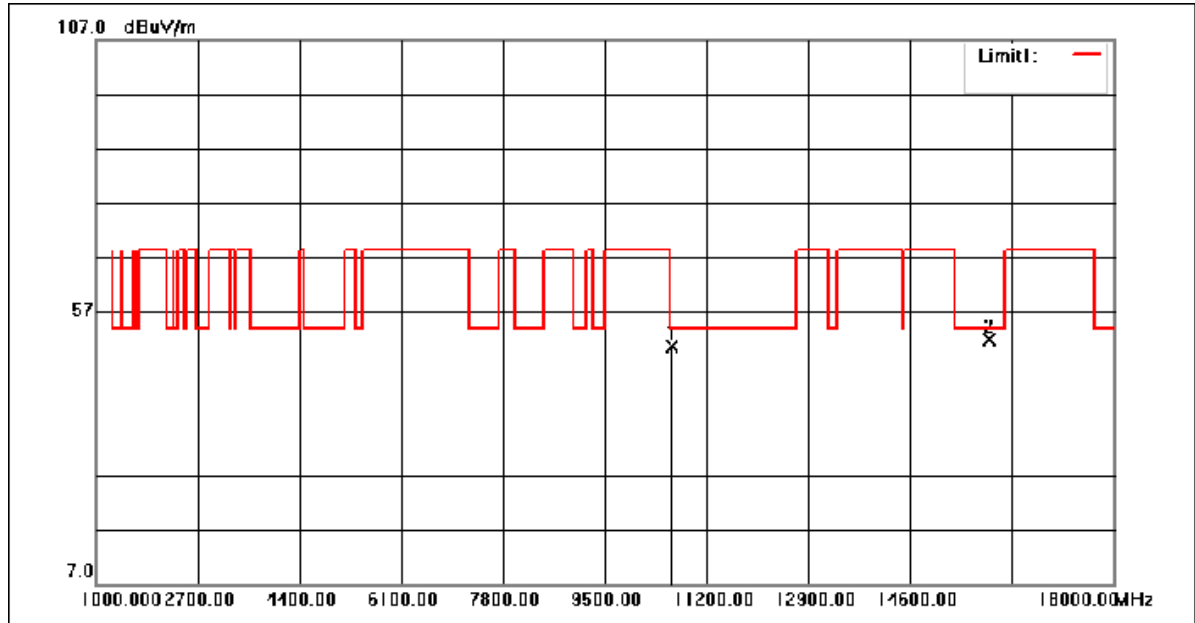
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Mode: c; Polarization: Vertical; Modulation: c; bandwidth: 40MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10620.000	50.15	0.46	50.61	54.00	-3.39	peak
2	15930.000	45.42	6.54	51.96	54.00	-2.04	peak



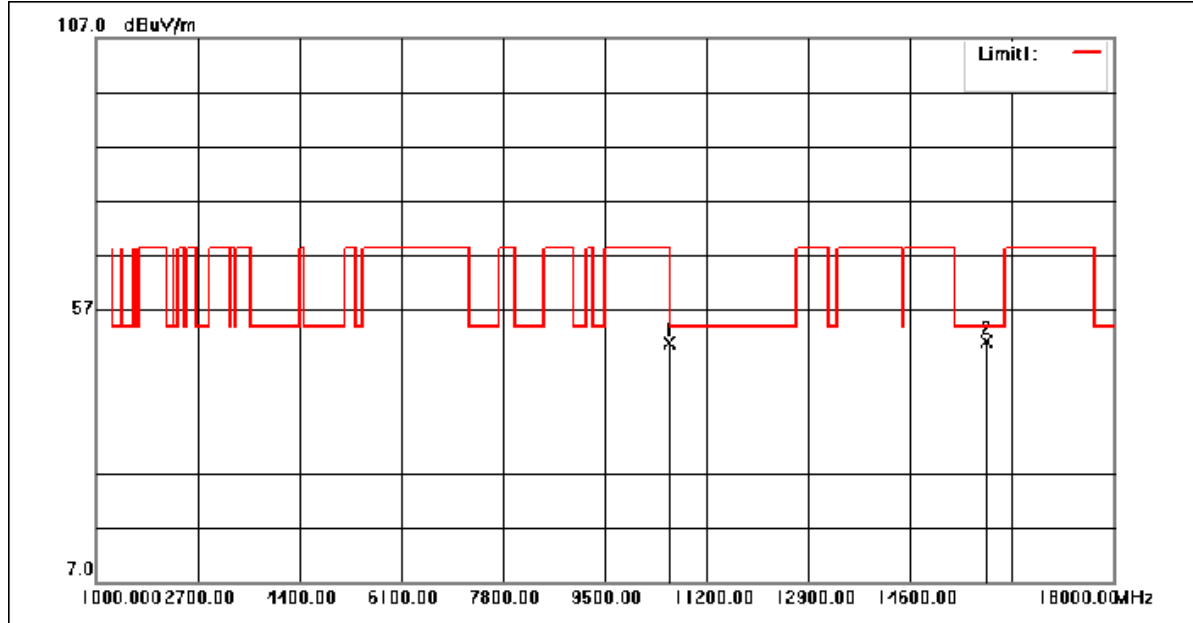
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Mode: c; Polarization: Horizontal; Modulation: c; bandwidth: 80MHz; Channel: middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10580.000	50.38	0.46	50.84	68.30	-17.46	peak
2	15870.000	44.79	6.41	51.20	54.00	-2.80	peak



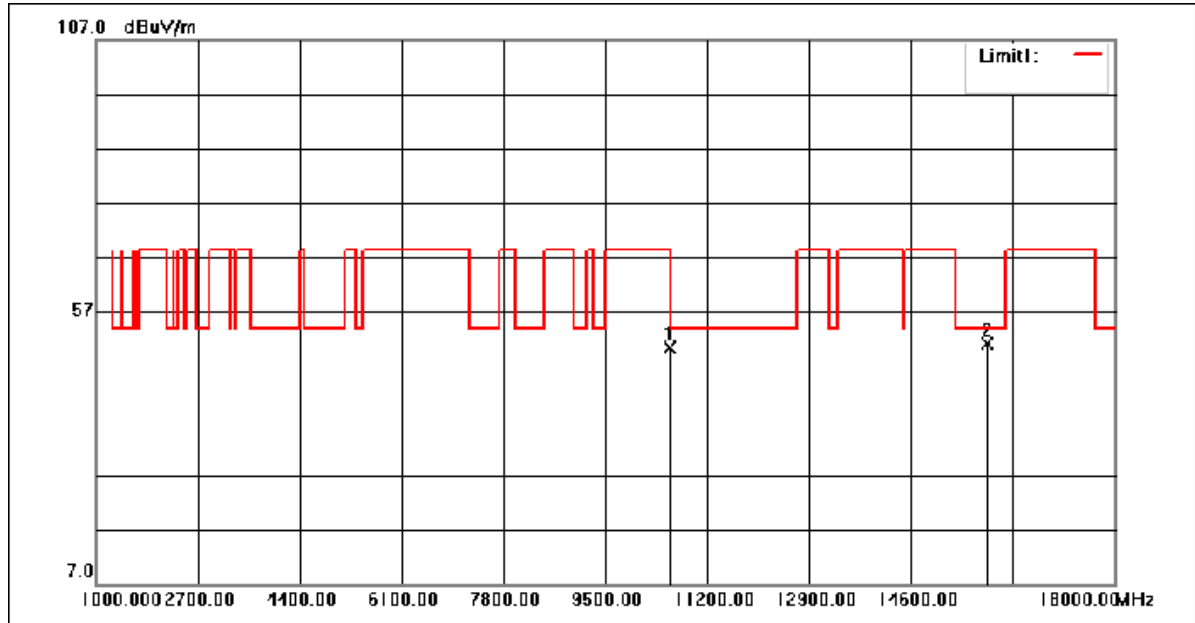
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Mode: c; Polarization: Vertical; Modulation: c; bandwidth: 80MHz; Channel: middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10580.000	49.85	0.46	50.31	68.30	-17.99	peak
2	15870.000	44.64	6.41	51.05	54.00	-2.95	peak

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EMC Laboratory

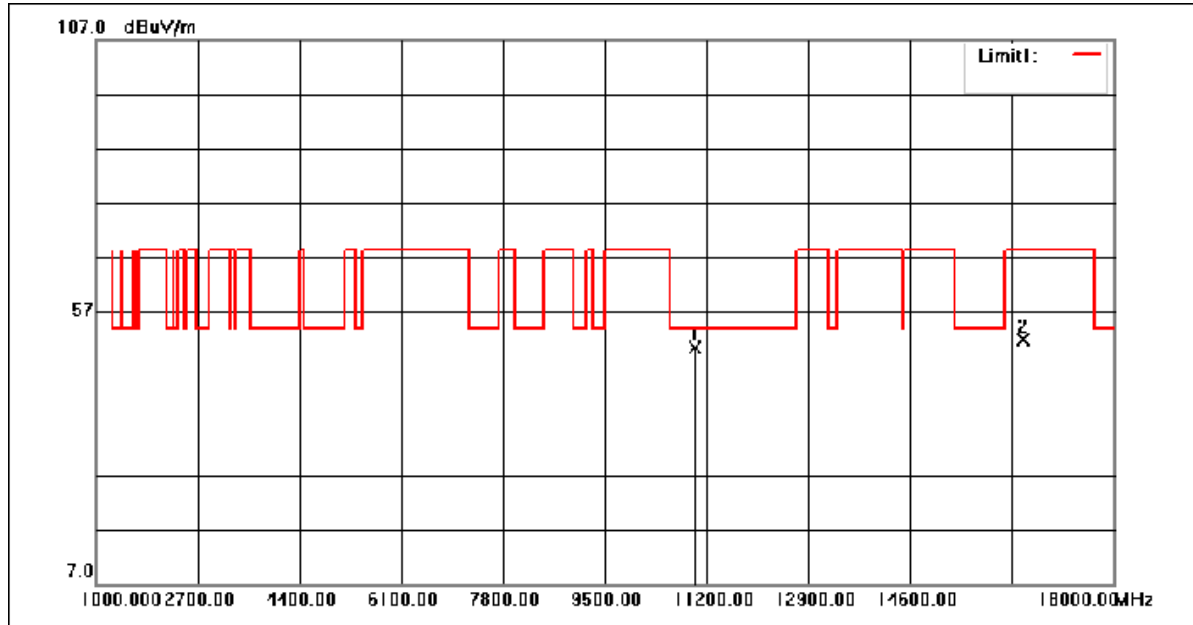
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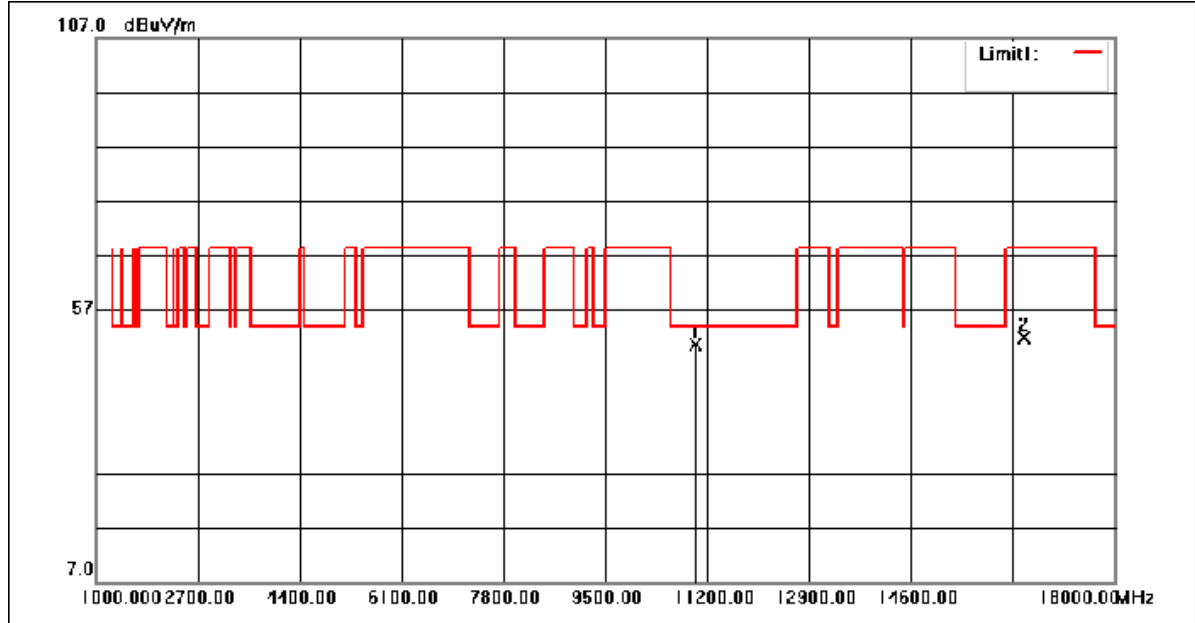
Mode: d; Polarization: Horizontal; Modulation: a; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11000.000	49.74	0.54	50.28	54.00	-3.72	peak
2	16500.000	43.36	8.43	51.79	68.30	-16.51	peak



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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11000.000	50.05	0.54	50.59	54.00	-3.41	peak
2	16500.000	43.54	8.43	51.97	68.30	-16.33	peak



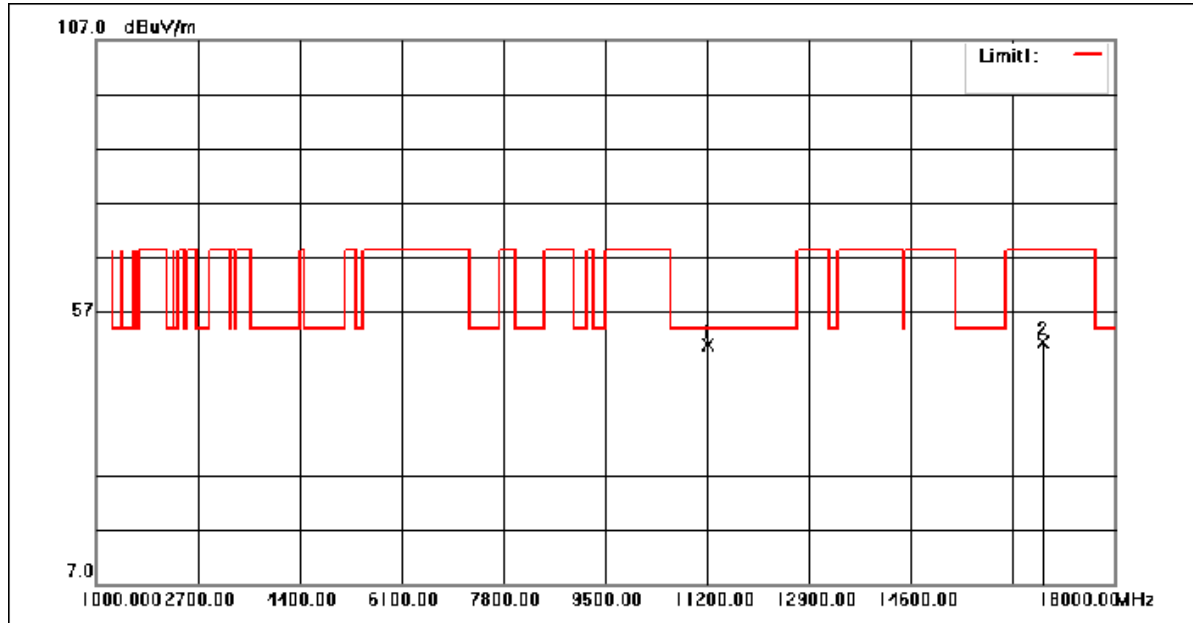
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Mode: d; Polarization: Horizontal; Modulation: a; bandwidth: 20MHz; Channel: middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11200.000	50.28	0.71	50.99	54.00	-3.01	peak
2	16800.000	42.45	8.89	51.34	68.30	-16.96	peak

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EMC Laboratory

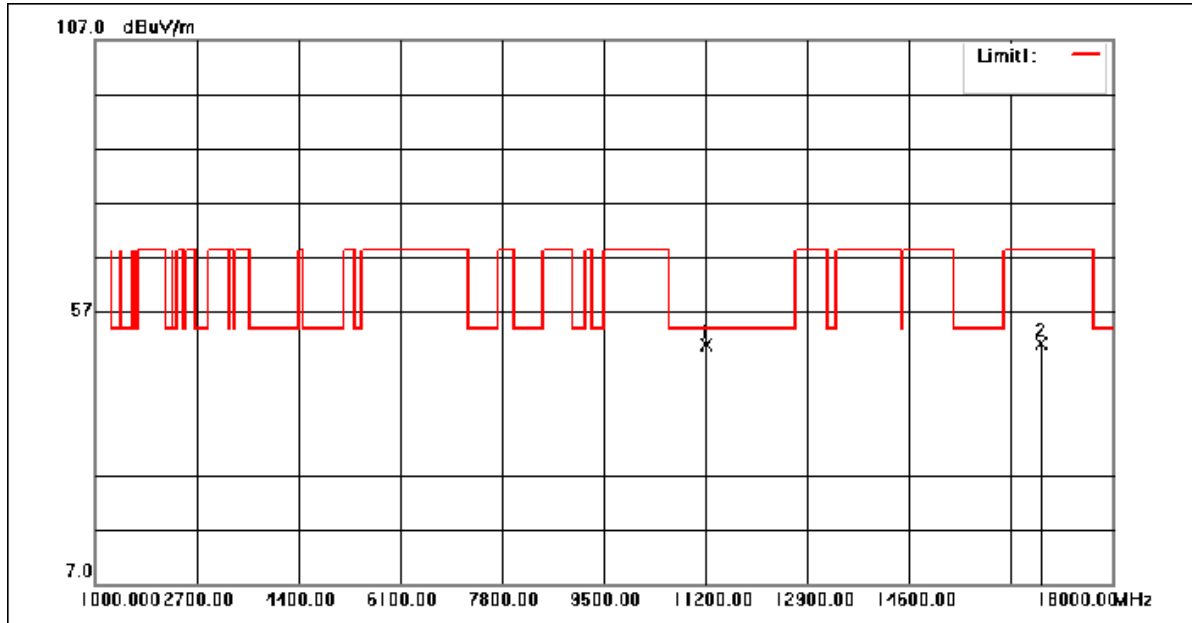
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Mode: d; Polarization: Vertical; Modulation: a; bandwidth: 20MHz; Channel: middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11200.000	50.14	0.71	50.85	54.00	-3.15	peak
2	16800.000	42.23	8.89	51.12	68.30	-17.18	peak

Compliance Certification Services (Kunshan) Inc.
EMC Laboratory

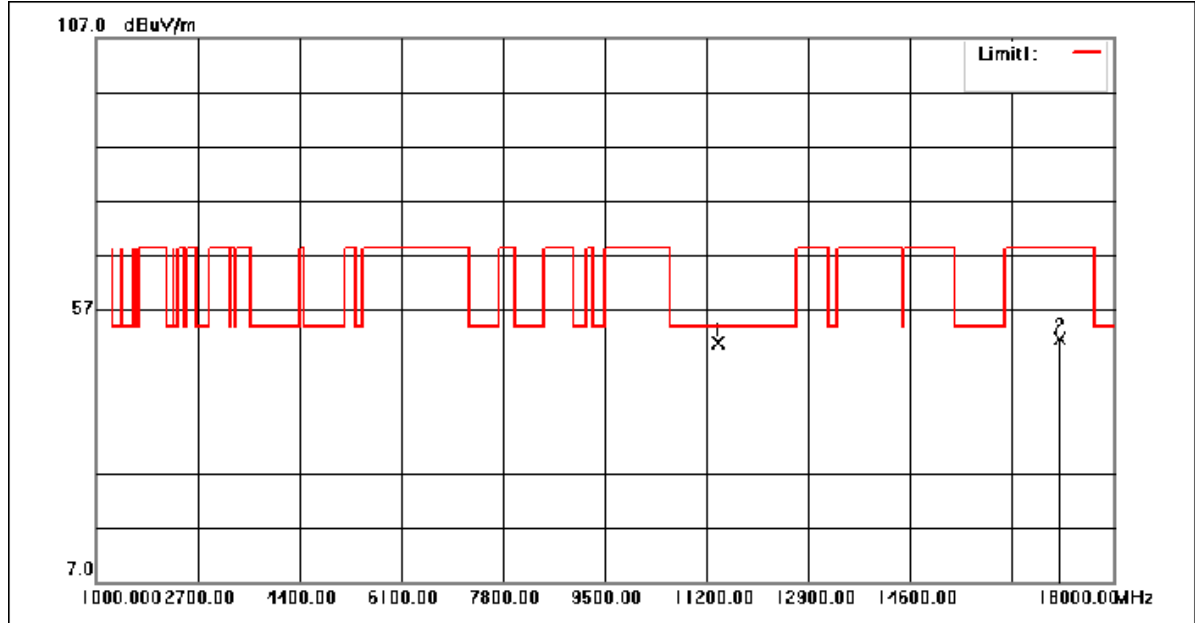
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Mode: d; Polarization: Horizontal; Modulation: a; bandwidth: 20MHz; Channel: High 1#



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	49.92	0.87	50.79	54.00	-3.21	peak
2	17100.000	42.60	9.13	51.73	68.30	-16.57	peak



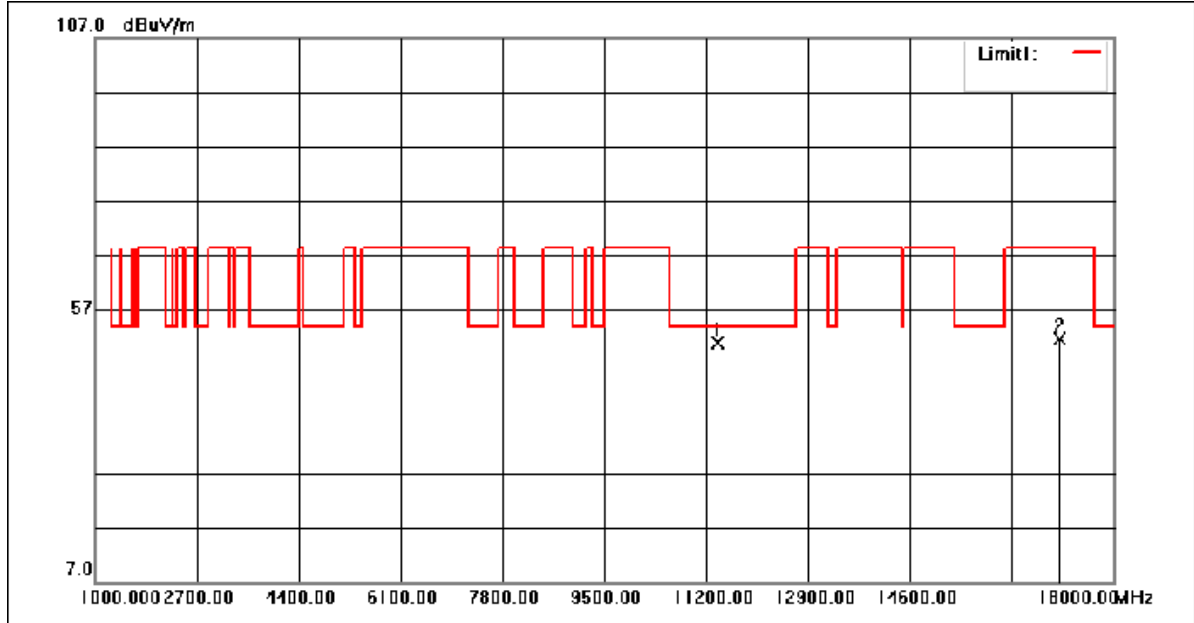
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Mode: d; Polarization: Vertical; Modulation: a; bandwidth: 20MHz; Channel: High 1#



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	49.91	0.87	50.78	54.00	-3.22	peak
2	17100.000	42.47	9.13	51.60	68.30	-16.70	peak



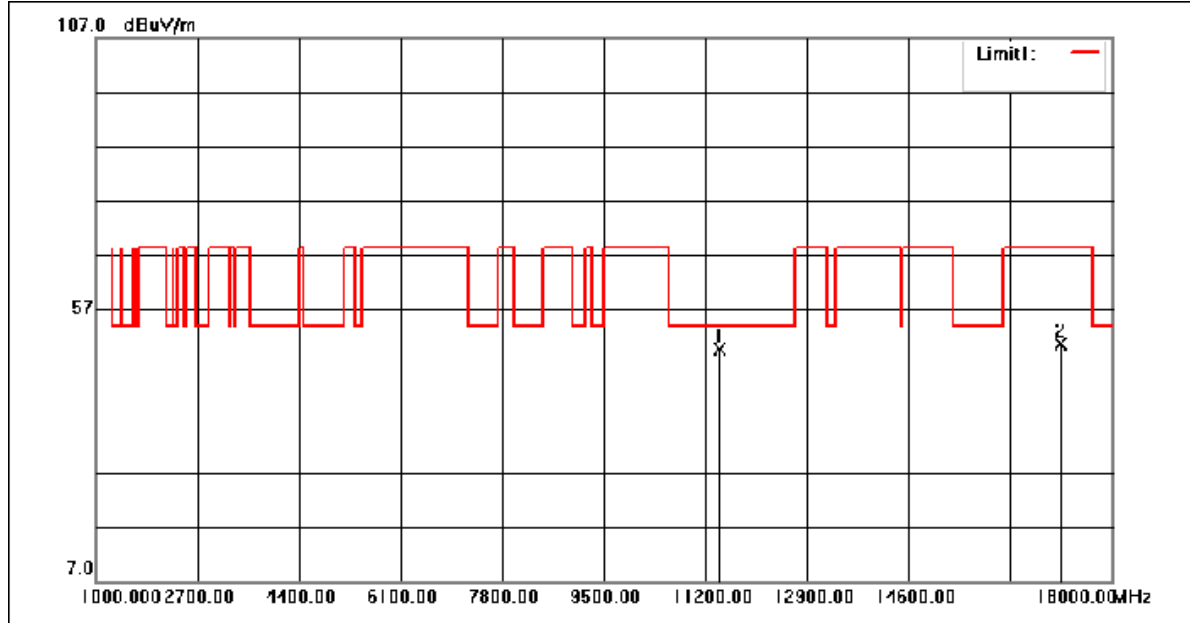
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Mode: d; Polarization: Horizontal; Modulation: a; bandwidth: 20MHz; Channel: High 2#



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11440.000	48.72	0.90	49.62	54.00	-4.38	peak
2	17160.000	41.62	9.09	50.71	68.30	-17.59	peak



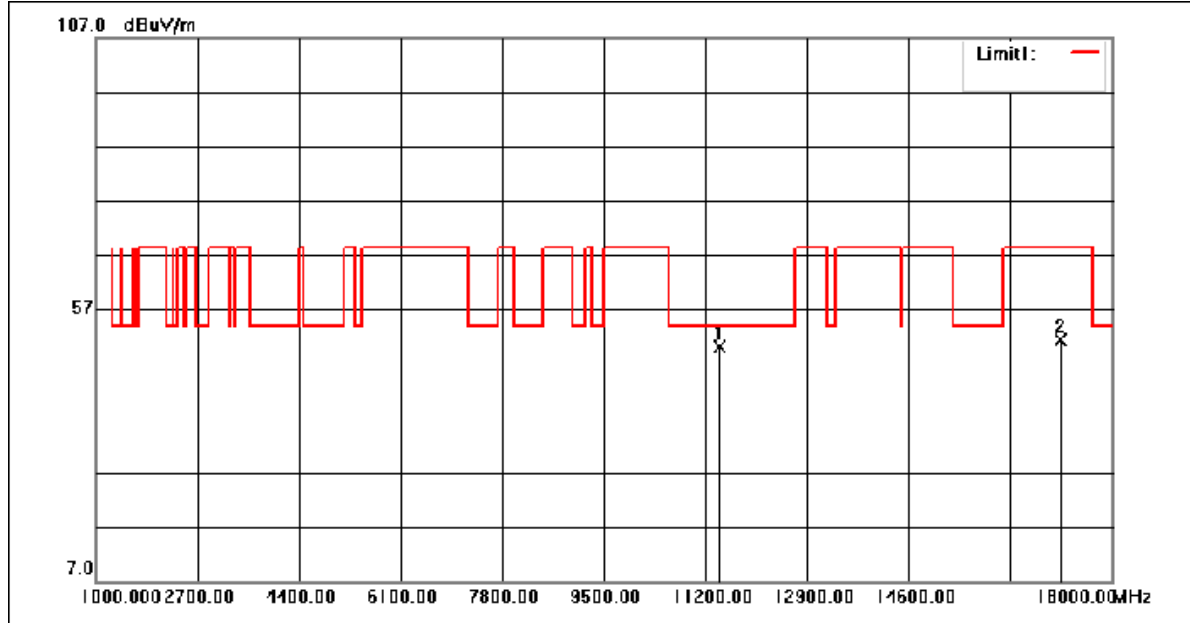
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Mode: d; Polarization: Vertical; Modulation: a; bandwidth: 20MHz; Channel: High 2#



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11440.000	49.27	0.90	50.17	54.00	-3.83	peak
2	17160.000	42.39	9.09	51.48	68.30	-16.82	peak



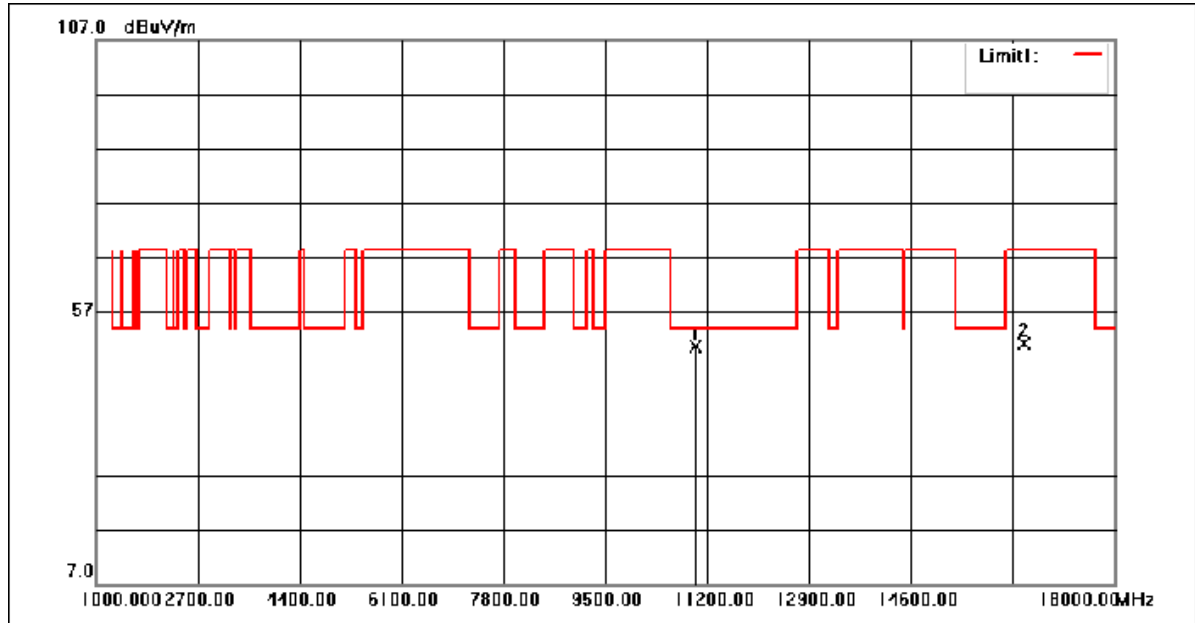
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Mode: d; Polarization: Horizontal; Modulation: n; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11000.000	50.10	0.54	50.64	54.00	-3.36	peak
2	16500.000	42.61	8.43	51.04	68.30	-17.26	peak



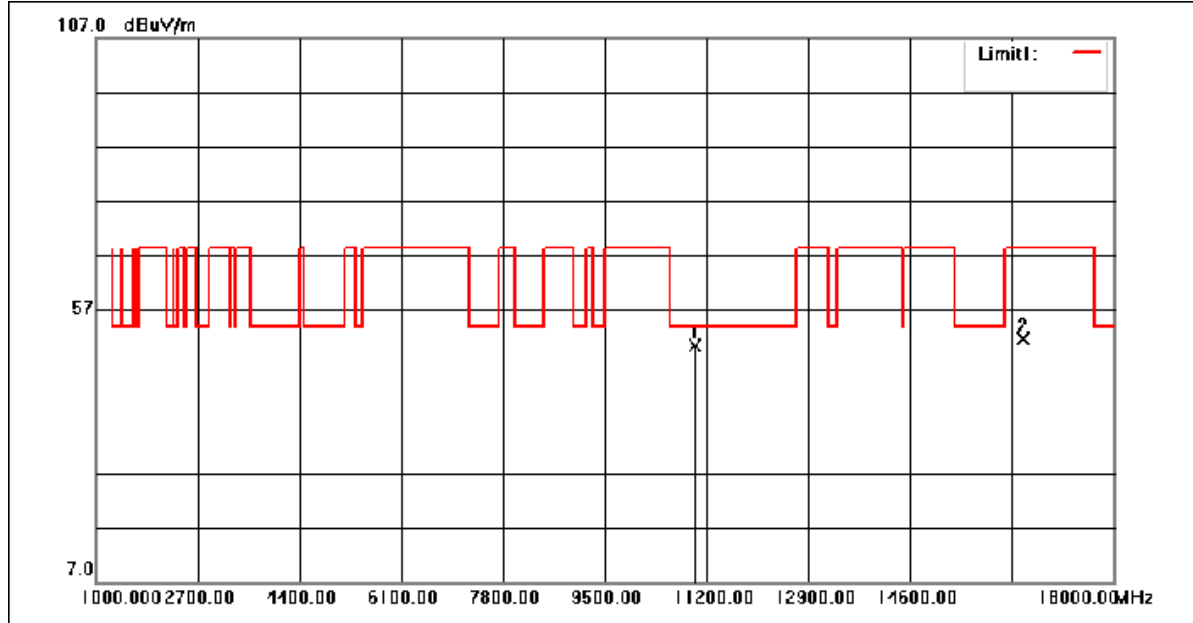
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Mode: d; Polarization: Vertical; Modulation: n; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11000.000	49.96	0.54	50.50	54.00	-3.50	peak
2	16500.000	43.25	8.43	51.68	68.30	-16.62	peak



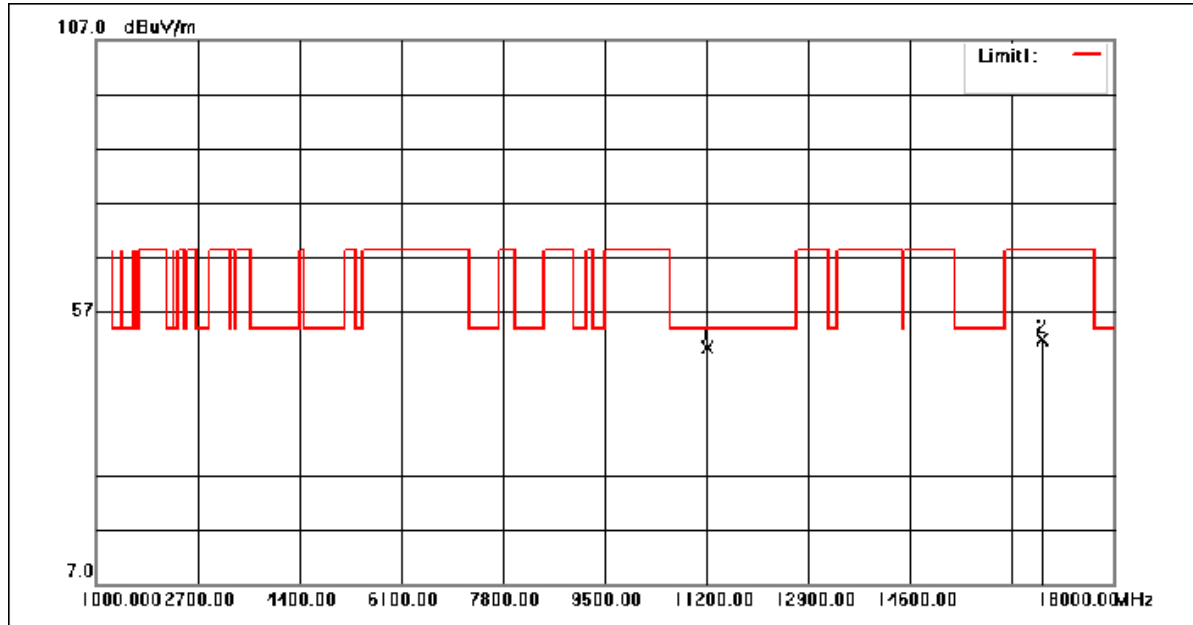
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Mode: d; Polarization: Horizontal; Modulation: n; bandwidth: 20MHz; Channel: middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11200.000	49.64	0.71	50.35	54.00	-3.65	peak
2	16800.000	43.05	8.89	51.94	68.30	-16.36	peak



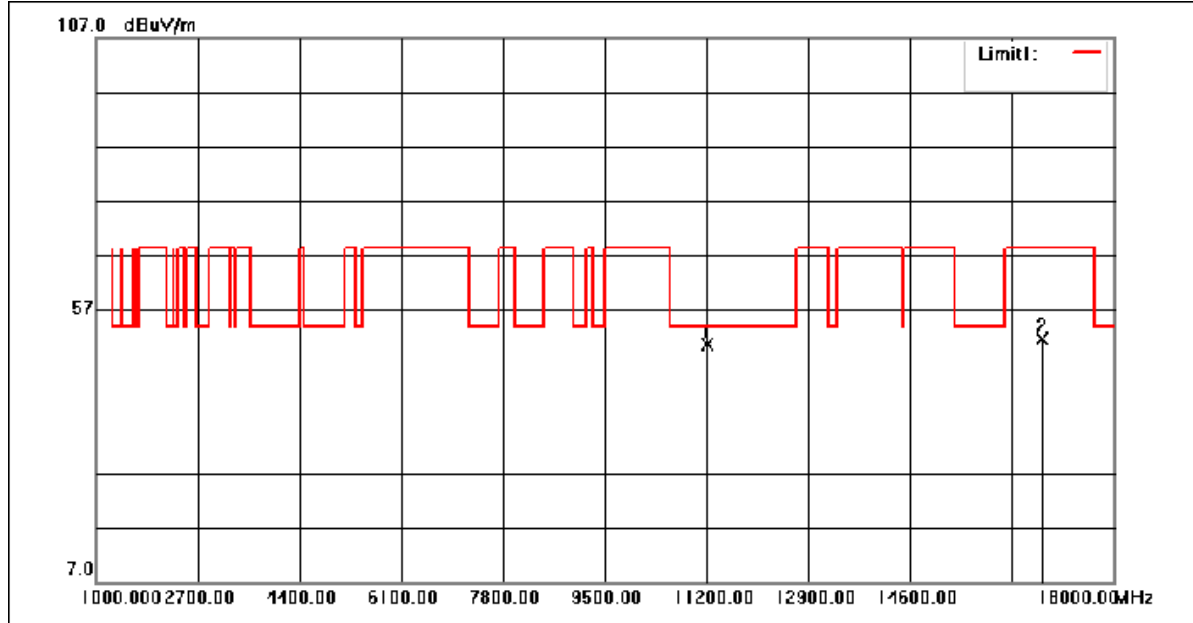
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Mode: d; Polarization: Vertical; Modulation: n; bandwidth: 20MHz; Channel: middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11200.000	49.83	0.71	50.54	54.00	-3.46	peak
2	16800.000	42.82	8.89	51.71	68.30	-16.59	peak



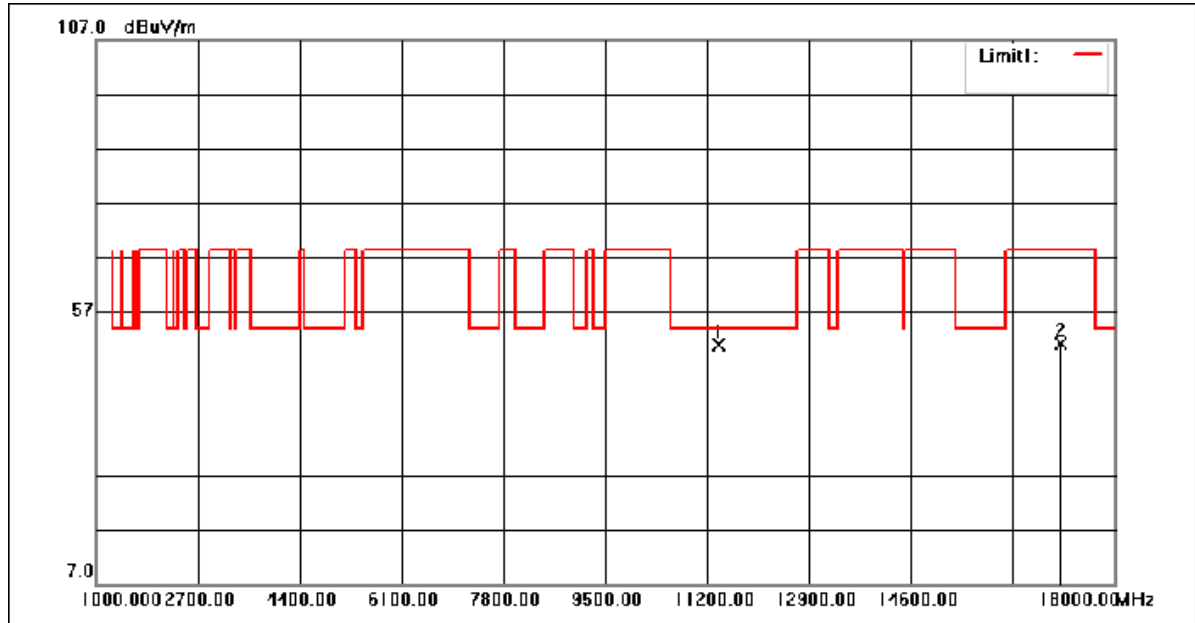
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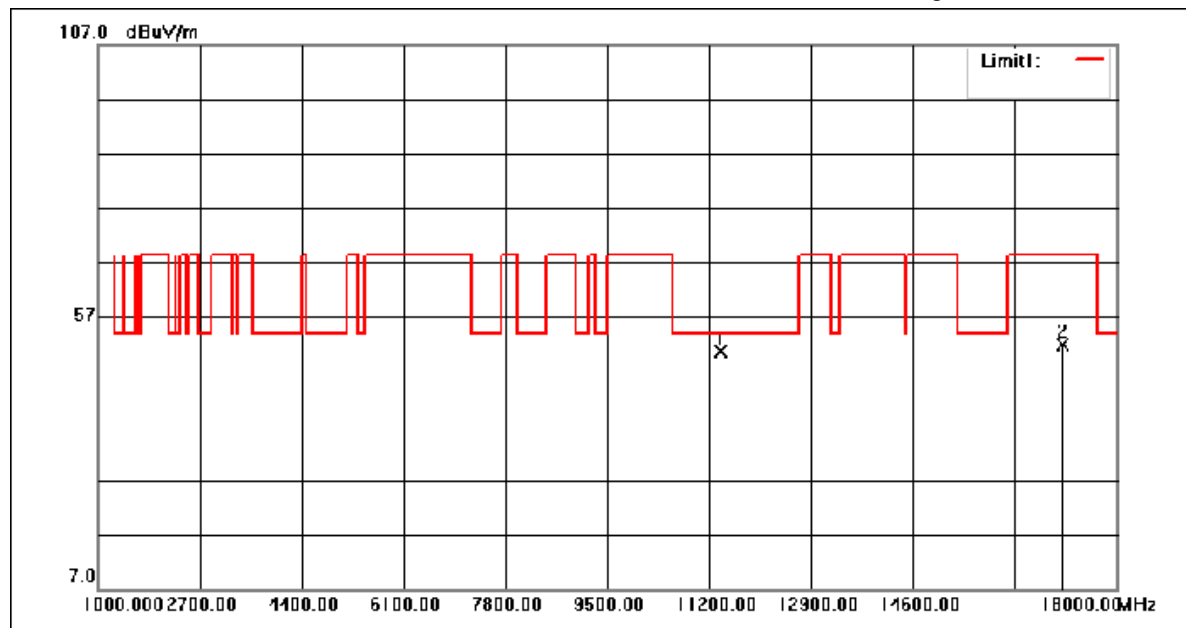
Mode: d; Polarization: Horizontal; Modulation: n; bandwidth: 20MHz; Channel: High 1#



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	49.92	0.87	50.79	54.00	-3.21	peak
2	17100.000	42.03	9.13	51.16	68.30	-17.14	peak



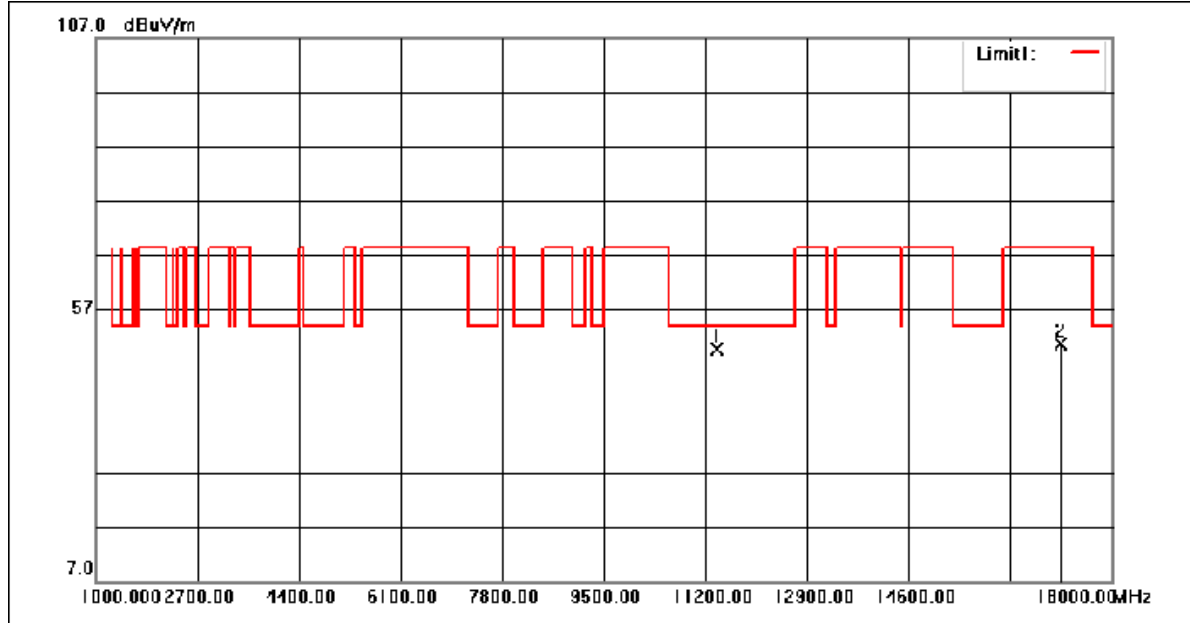
Mode: d; Polarization: Vertical; Modulation: n; bandwidth: 20MHz; Channel: High 1#



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	49.74	0.87	50.61	54.00	-3.39	peak
2	17100.000	42.71	9.13	51.84	68.30	-16.46	peak



Mode: d; Polarization: Horizontal; Modulation: n; bandwidth: 20MHz; Channel: High 2#



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	48.80	0.87	49.67	54.00	-4.33	peak
2	17160.000	41.66	9.09	50.75	68.30	-17.55	peak



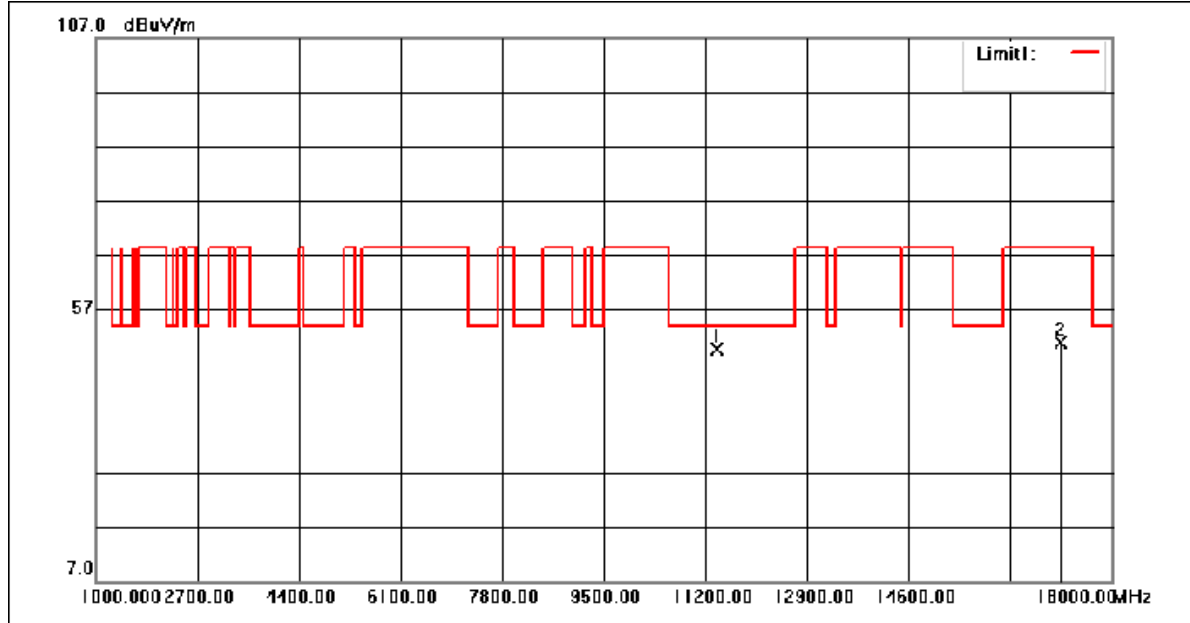
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Mode: d; Polarization: Vertical; Modulation: n; bandwidth: 20MHz; Channel: High 2#



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	48.70	0.87	49.57	54.00	-4.43	peak
2	17160.000	41.90	9.09	50.99	68.30	-17.31	peak



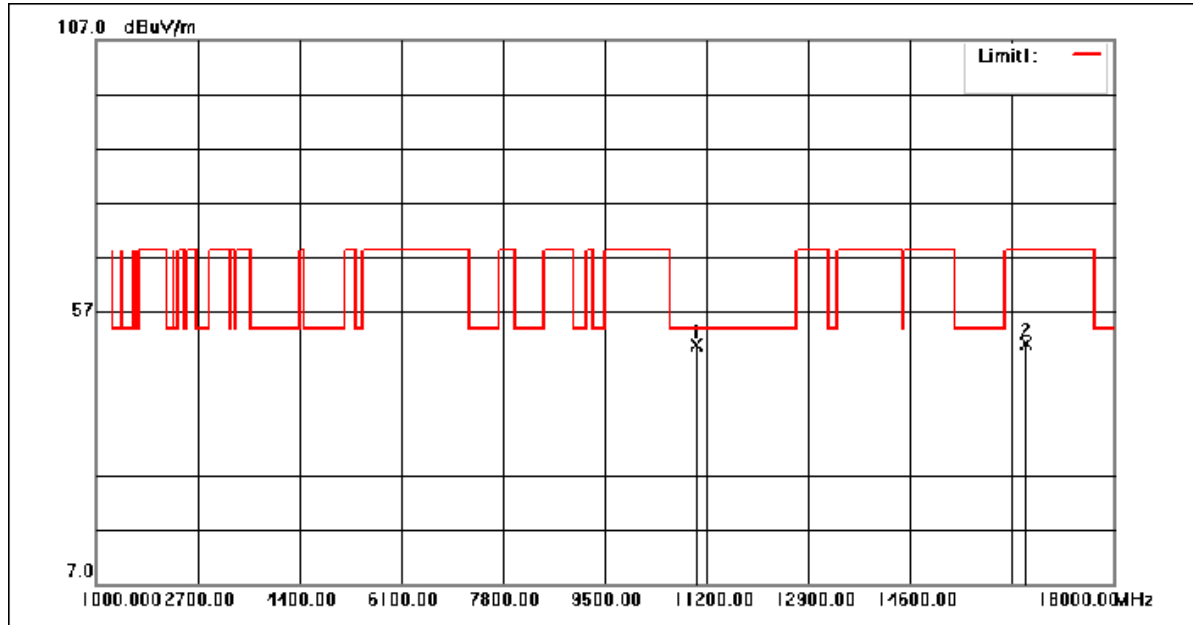
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Mode: d; Polarization: Horizontal; Modulation: n; bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11020.000	50.29	0.56	50.85	54.00	-3.15	peak
2	16530.000	42.60	8.47	51.07	68.30	-17.23	peak



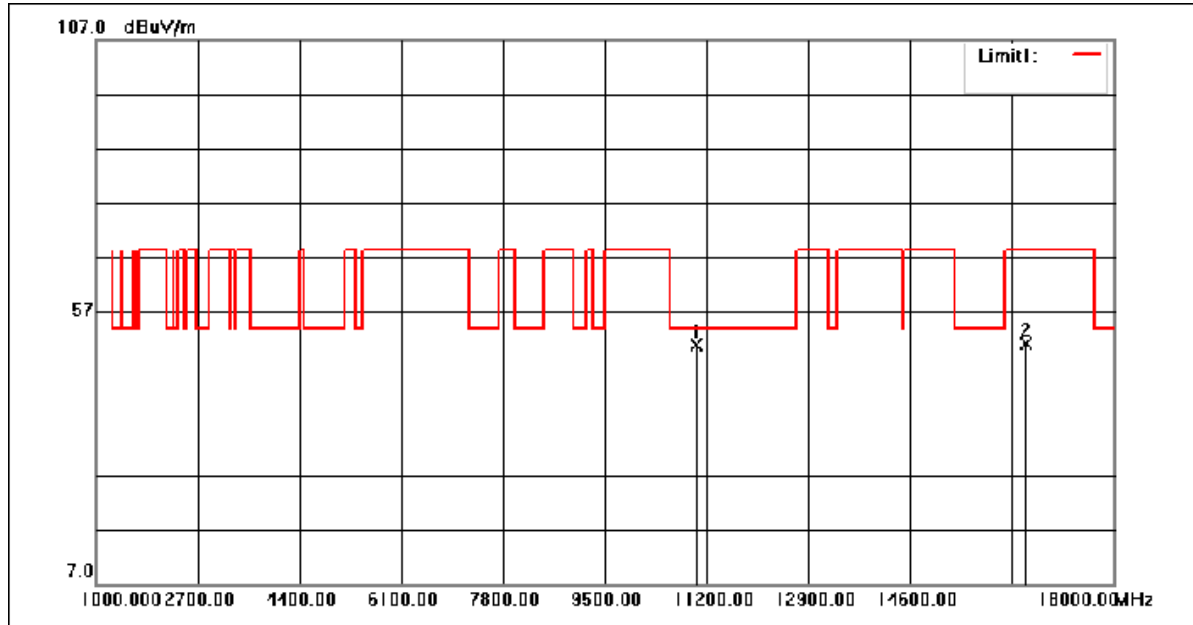
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Mode: d; Polarization: Vertical; Modulation: n; bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11020.000	50.38	0.56	50.94	54.00	-3.06	peak
2	16530.000	42.59	8.47	51.06	68.30	-17.24	peak



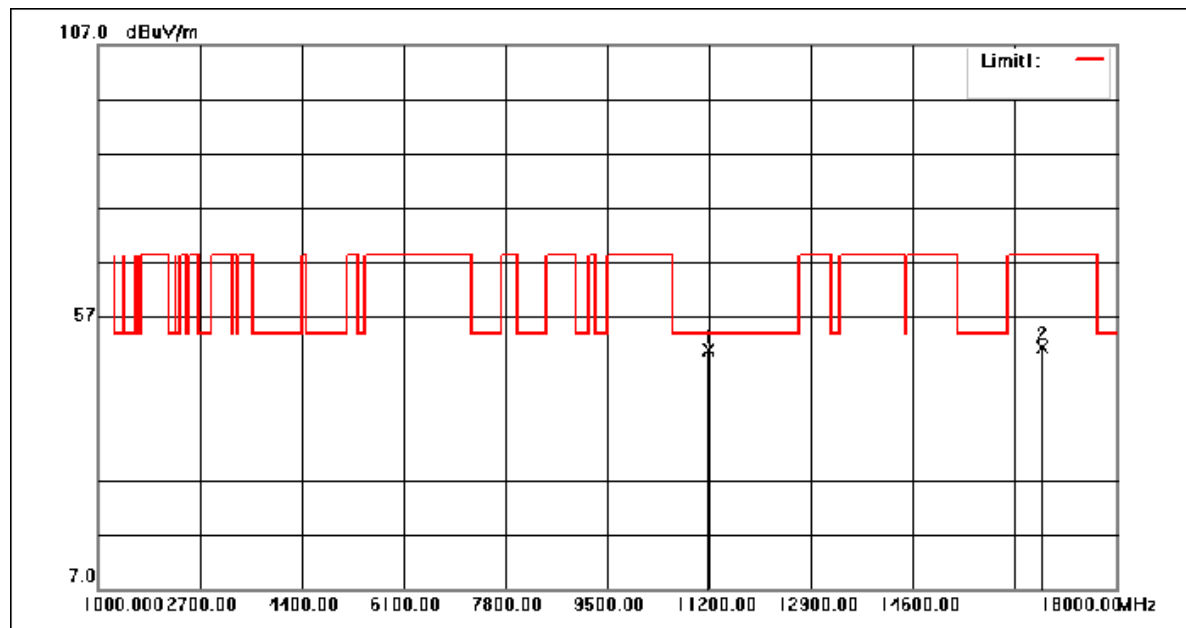
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Mode: d; Polarization: Horizontal; Modulation: n; bandwidth: 40MHz; Channel: middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11180.000	50.21	0.69	50.90	54.00	-3.10	peak
2	16770.000	42.42	8.84	51.26	68.30	-17.04	peak



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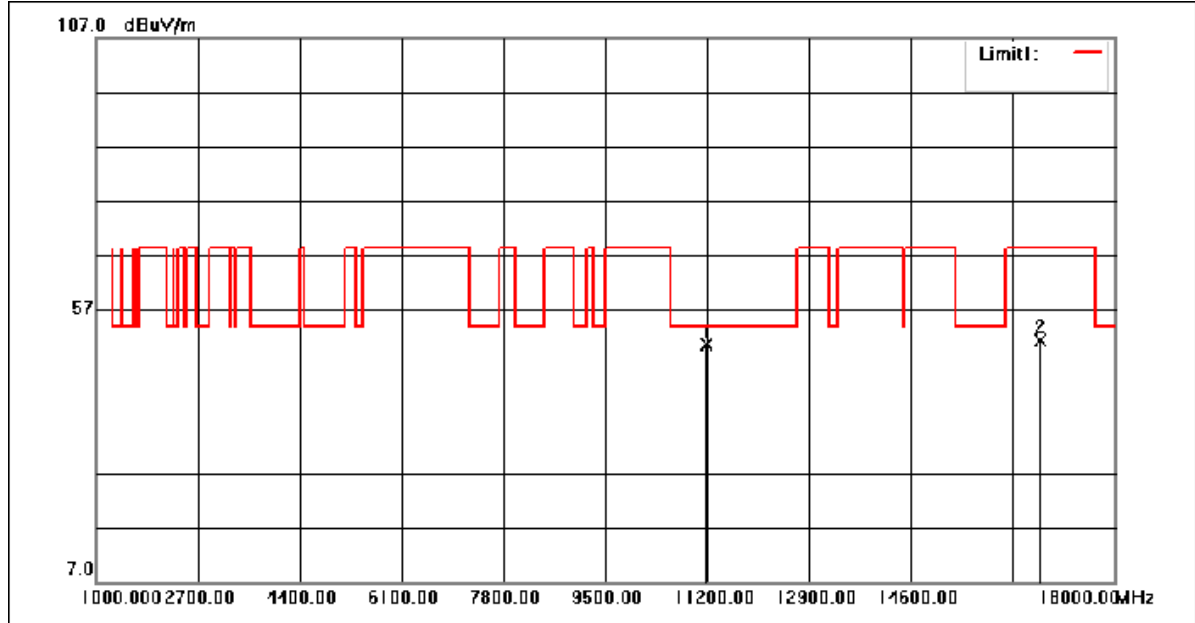
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Mode: d; Polarization: Vertical; Modulation: n; bandwidth: 40MHz; Channel: middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11180.000	49.82	0.69	50.51	54.00	-3.49	peak
2	16770.000	42.52	8.84	51.36	68.30	-16.94	peak



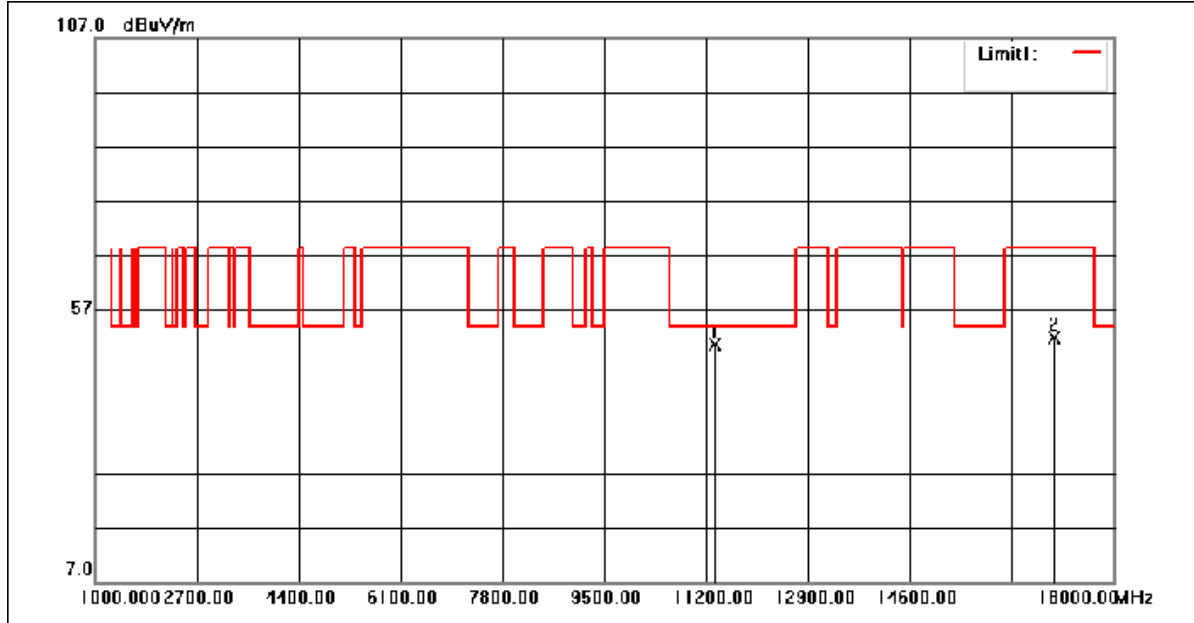
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Mode: d; Polarization: Horizontal; Modulation: n; bandwidth: 40MHz; Channel: High 1#



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11340.000	49.72	0.82	50.54	54.00	-3.46	peak
2	17010.000	42.78	9.18	51.96	68.30	-16.34	peak



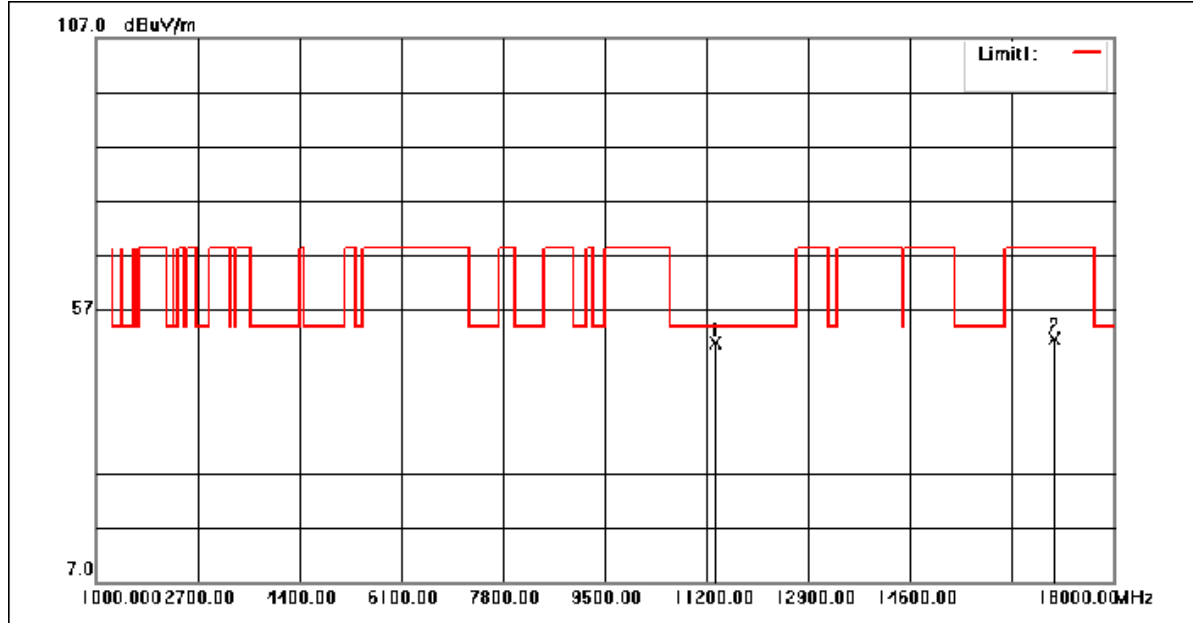
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Mode: d; Polarization: Vertical; Modulation: n; bandwidth: 40MHz; Channel: High 1#



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11340.000	50.04	0.82	50.86	54.00	-3.14	peak
2	17010.000	42.57	9.18	51.75	68.30	-16.55	peak



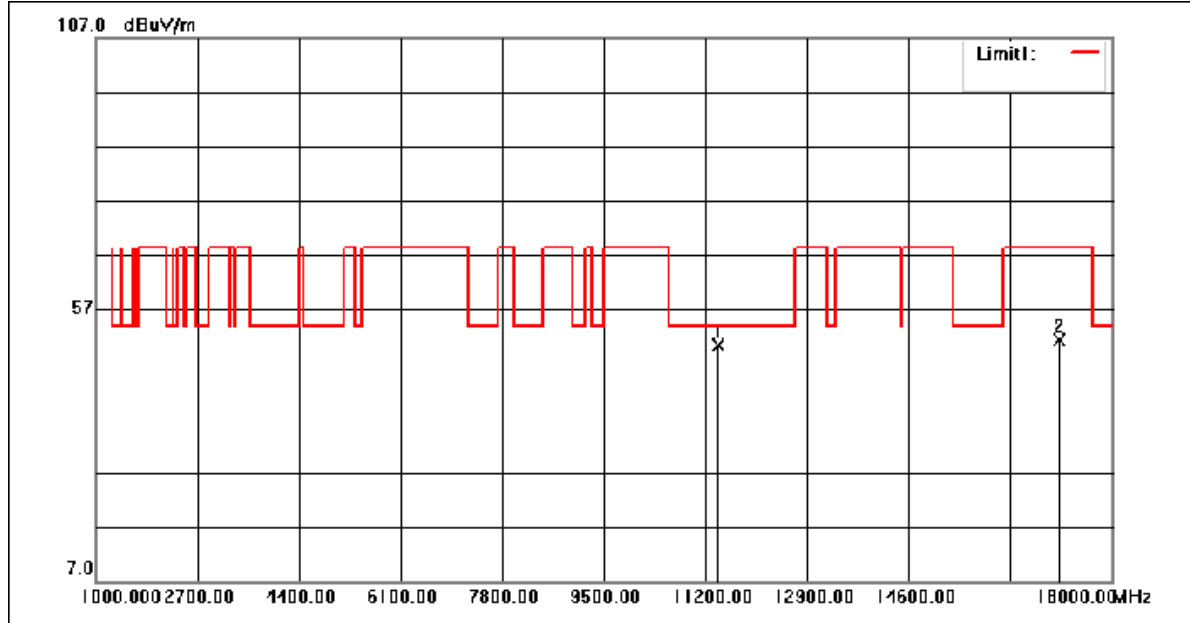
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Mode: d; Polarization: Horizontal; Modulation: n; bandwidth: 40MHz; Channel: High 2#



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11420.000	49.38	0.89	50.27	54.00	-3.73	peak
2	17130.000	42.18	9.11	51.29	68.30	-17.01	peak



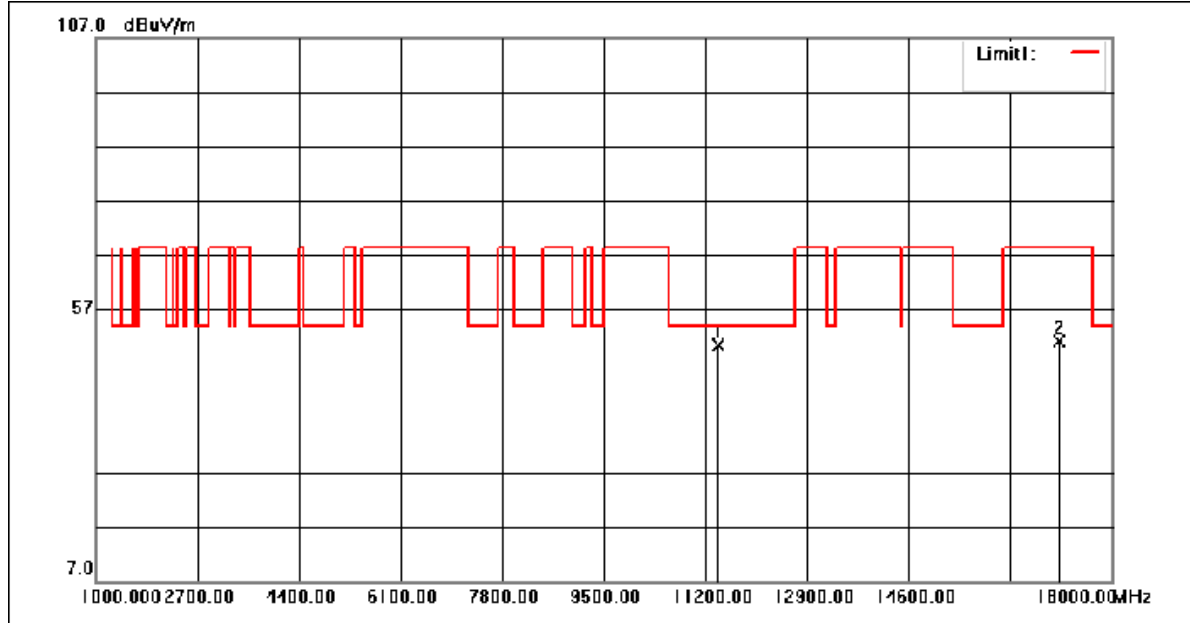
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Mode: d; Polarization: Vertical; Modulation: n; bandwidth: 40MHz; Channel: High 2#



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11420.000	49.48	0.89	50.37	54.00	-3.63	peak
2	17130.000	41.97	9.11	51.08	68.30	-17.22	peak



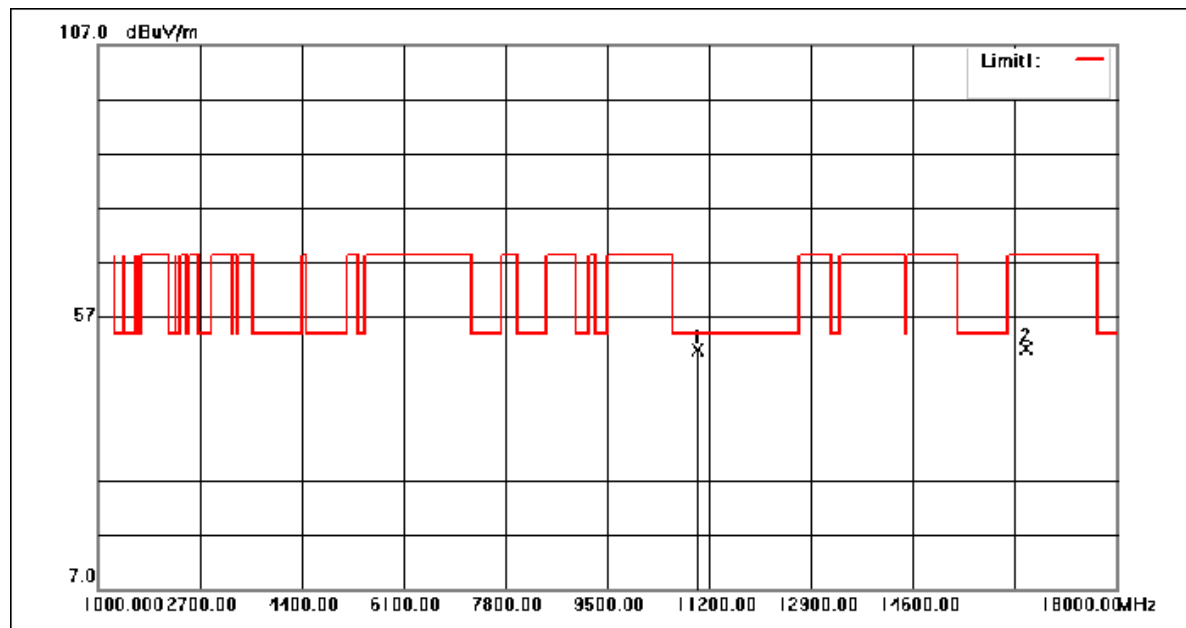
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Mode: d; Polarization: Horizontal; Modulation: c; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11000.000	50.39	0.54	50.93	54.00	-3.07	peak
2	16500.000	42.81	8.43	51.24	68.30	-17.06	peak



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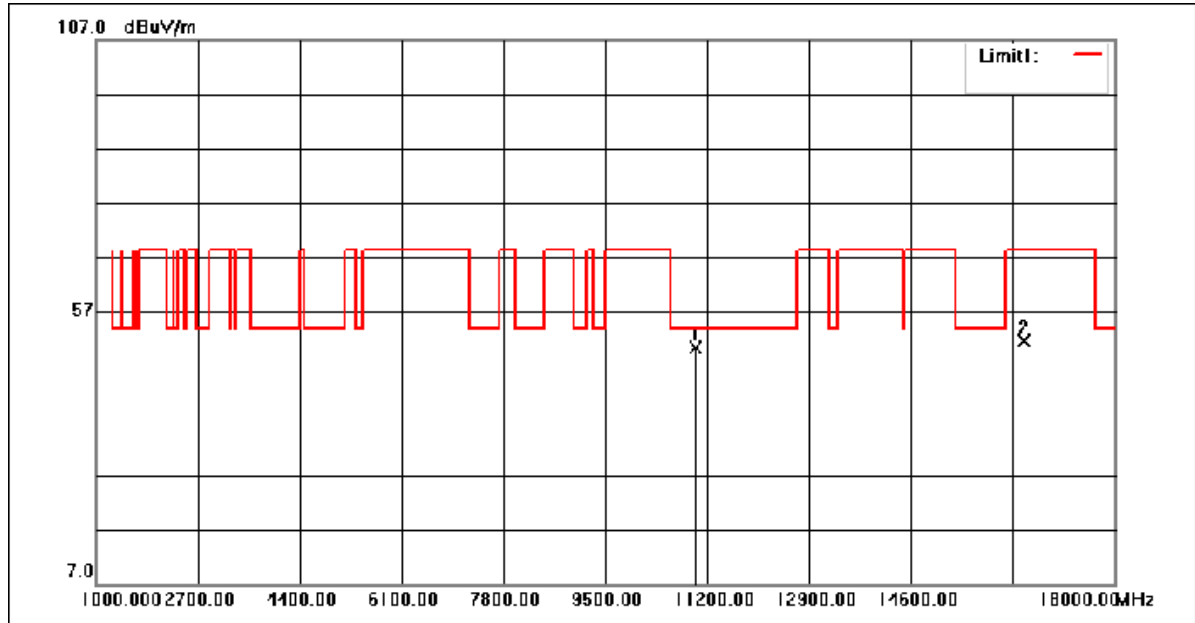
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Mode: d; Polarization: Vertical; Modulation: c; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11000.000	49.84	0.54	50.38	54.00	-3.62	peak
2	16500.000	43.08	8.43	51.51	68.30	-16.79	peak

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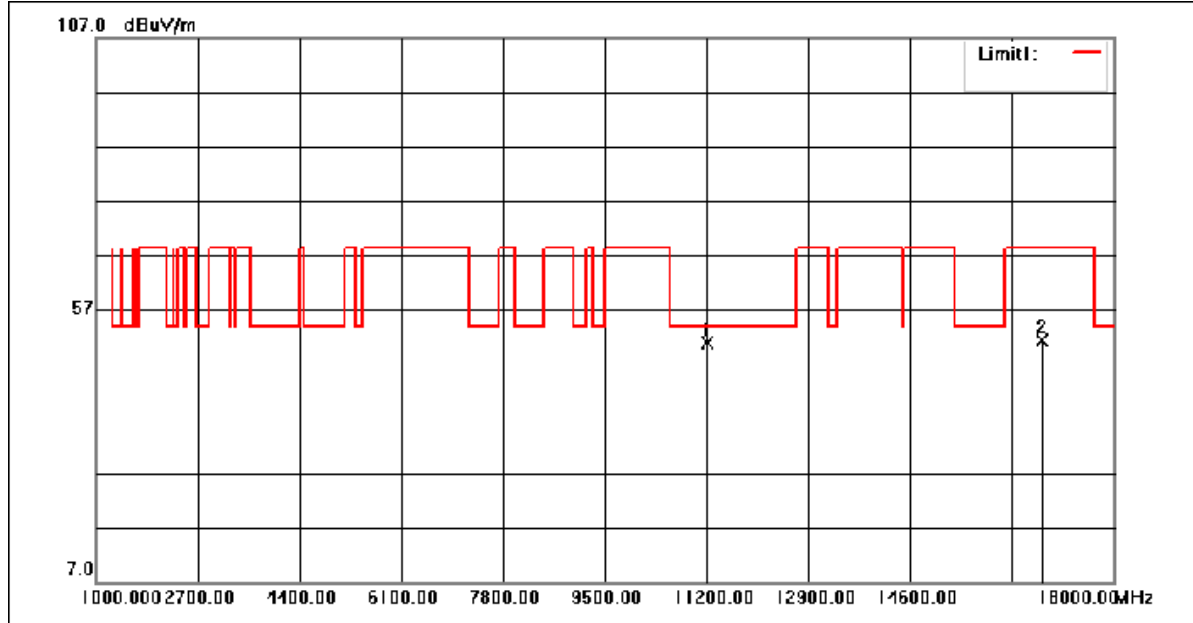
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Mode: d; Polarization: Horizontal; Modulation: c; bandwidth: 20MHz; Channel: middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11200.000	50.15	0.71	50.86	54.00	-3.14	peak
2	16800.000	42.56	8.89	51.45	68.30	-16.85	peak



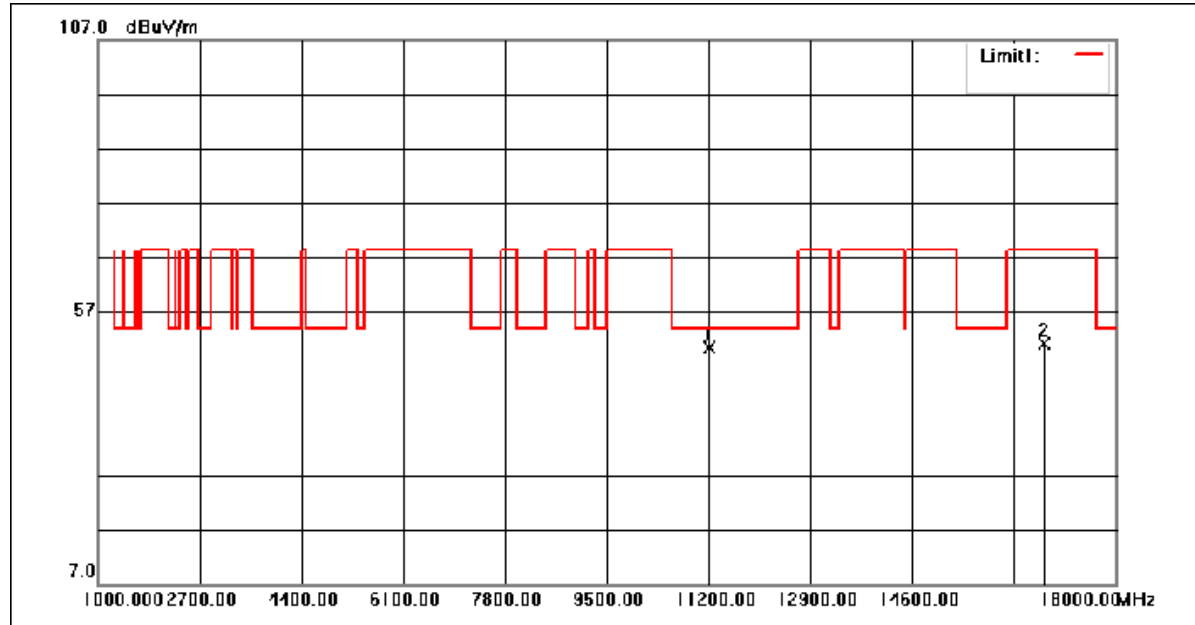
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Mode: d; Polarization: Vertical; Modulation: c; bandwidth: 20MHz; Channel: middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11200.000	49.78	0.71	50.49	54.00	-3.51	peak
2	16800.000	42.12	8.89	51.01	68.30	-17.29	peak



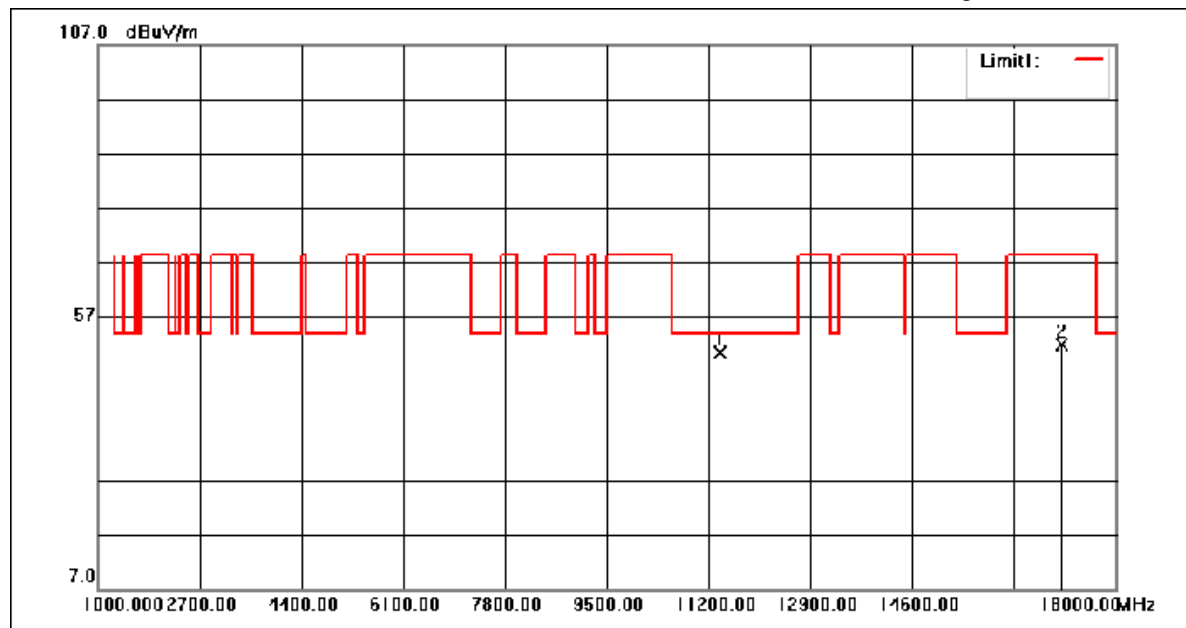
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Mode: d; Polarization: Horizontal; Modulation: c; bandwidth: 20MHz; Channel: High 1#



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	49.52	0.87	50.39	54.00	-3.61	peak
2	17100.000	42.82	9.13	51.95	68.30	-16.35	peak

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EMC Laboratory

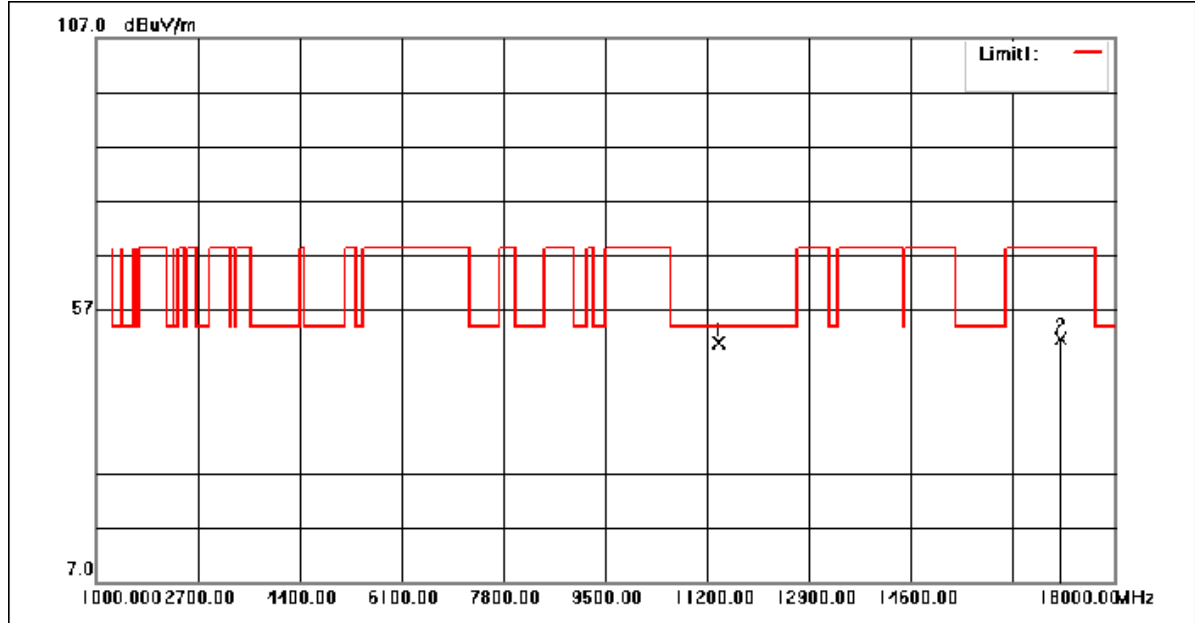
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Mode: d; Polarization: Vertical; Modulation: c; bandwidth: 20MHz; Channel: High 1#



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11400.000	50.05	0.87	50.92	54.00	-3.08	peak
2	17100.000	42.48	9.13	51.61	68.30	-16.69	peak



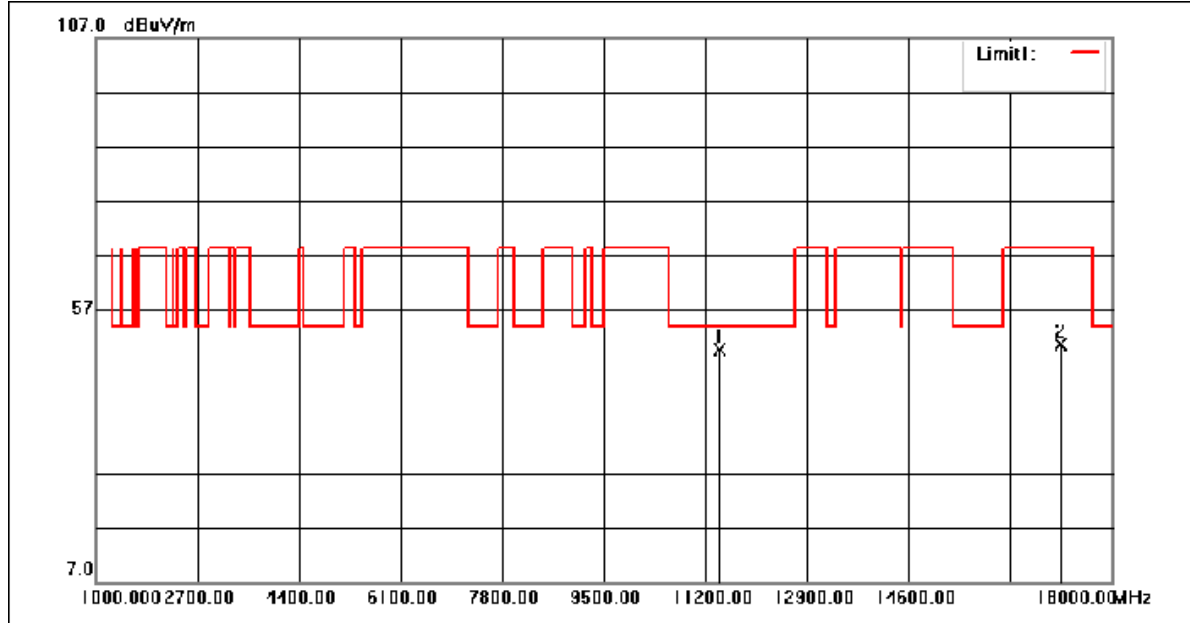
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Mode: d; Polarization: Horizontal; Modulation: c; bandwidth: 20MHz; Channel: High 2#



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11440.000	48.72	0.90	49.62	54.00	-4.38	peak
2	17160.000	41.62	9.09	50.71	68.30	-17.59	peak



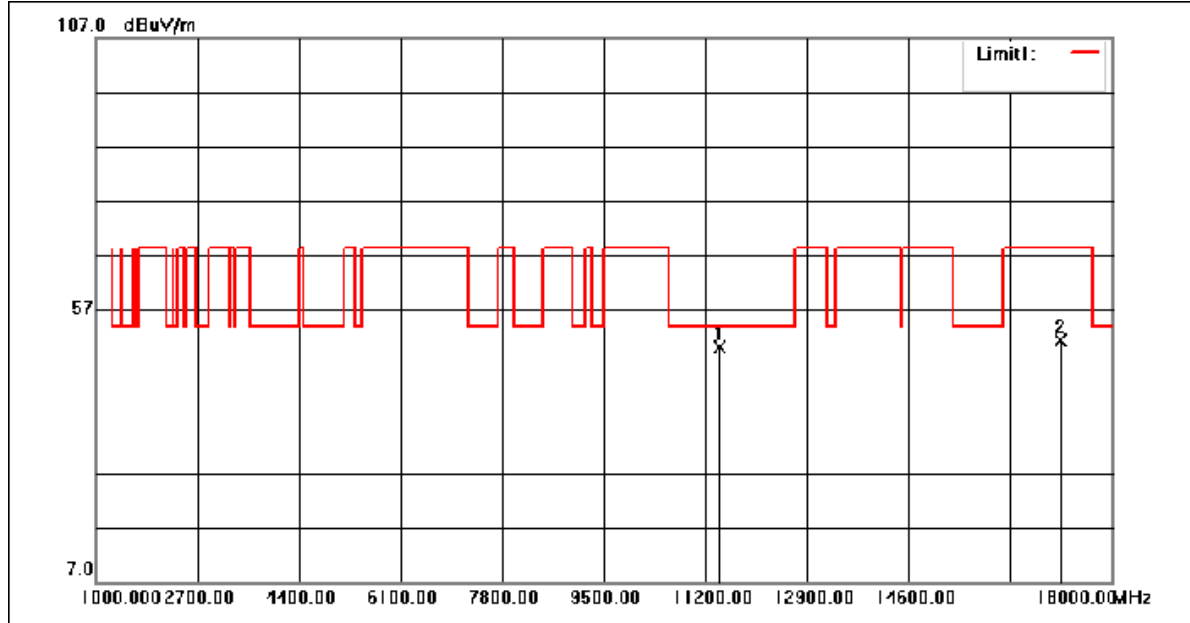
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Mode: d; Polarization: Vertical; Modulation: c; bandwidth: 20MHz; Channel: High 2#



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11440.000	49.27	0.90	50.17	54.00	-3.83	peak
2	17160.000	42.39	9.09	51.48	68.30	-16.82	peak



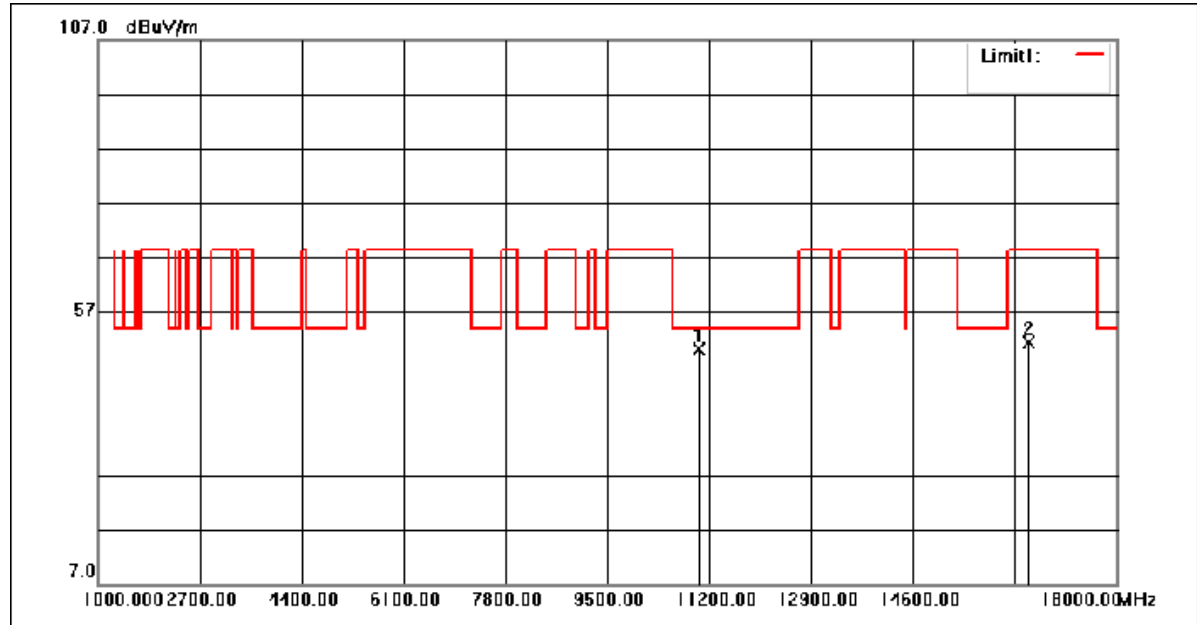
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Mode: d; Polarization: Horizontal; Modulation: c; bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11020.000	49.67	0.56	50.23	54.00	-3.77	peak
2	16530.000	43.01	8.47	51.48	68.30	-16.82	peak



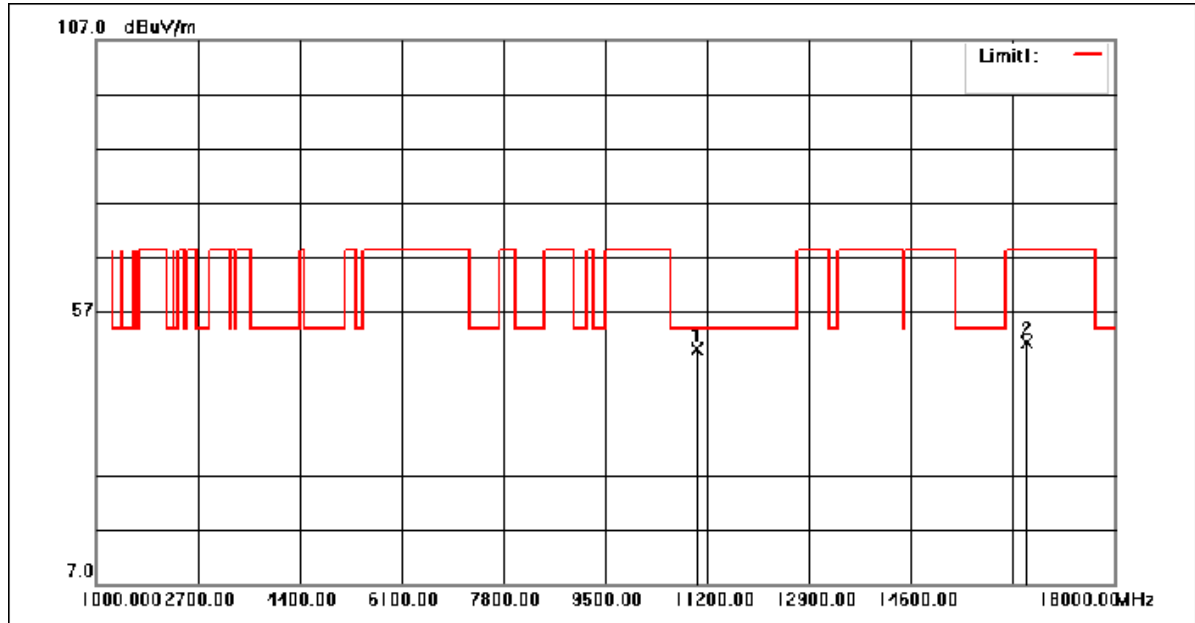
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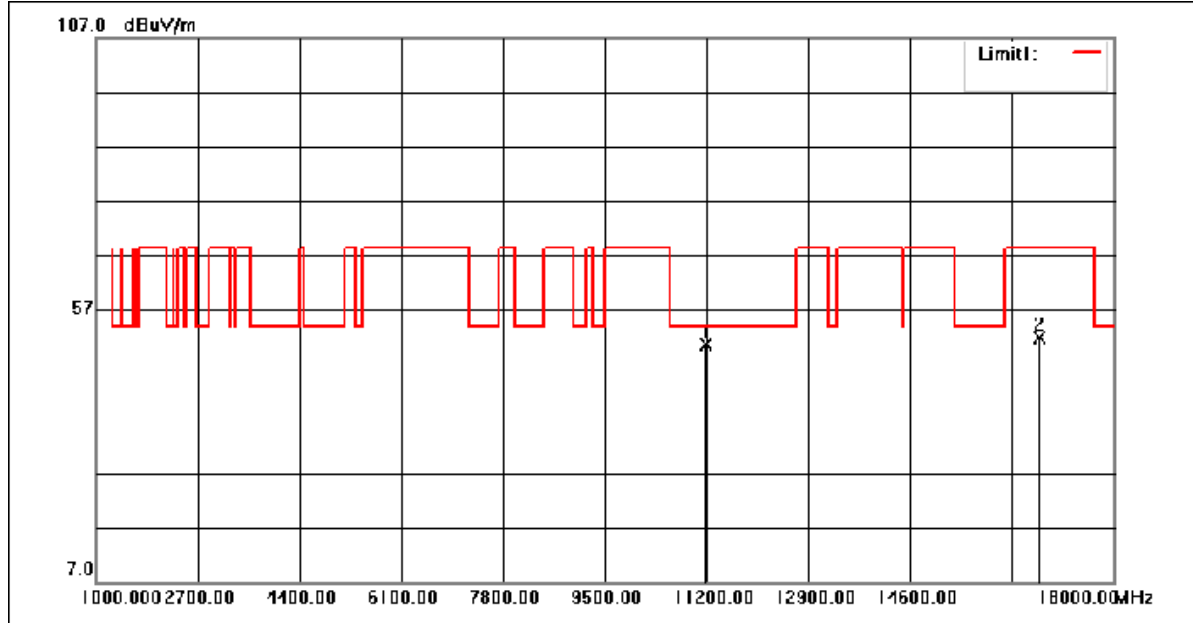
Mode: d; Polarization: Vertical; Modulation: c; bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11020.000	49.54	0.56	50.10	54.00	-3.90	peak
2	16530.000	42.94	8.47	51.41	68.30	-16.89	peak



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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11180.000	49.96	0.69	50.65	54.00	-3.35	peak
2	16770.000	43.04	8.84	51.88	68.30	-16.42	peak



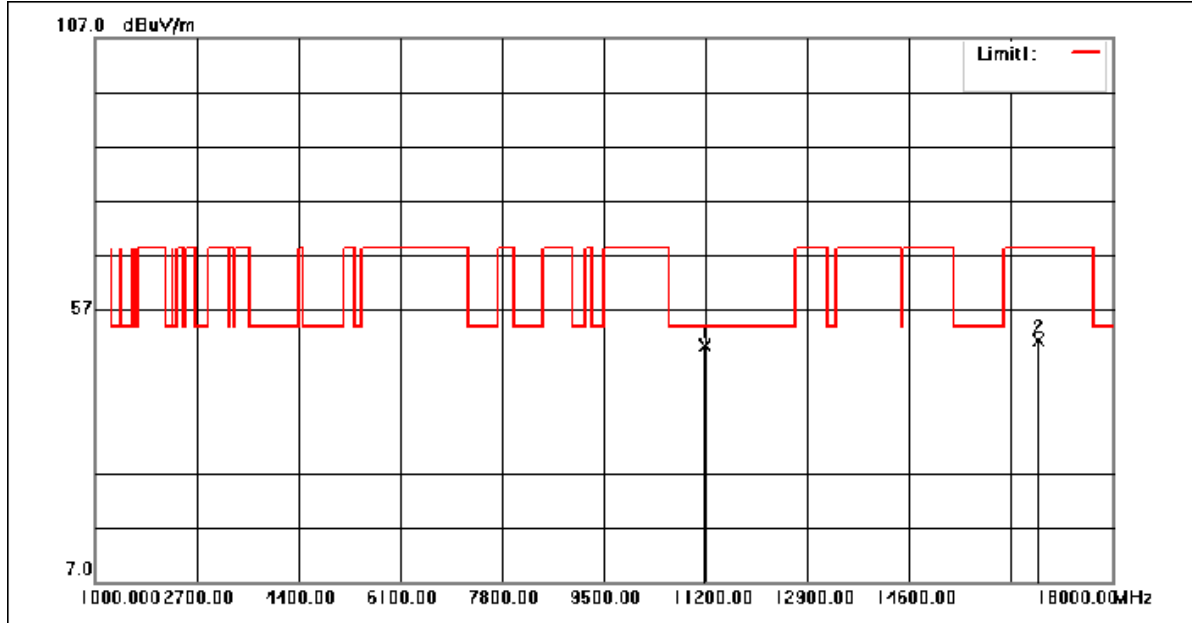
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Mode: d; Polarization: Vertical; Modulation: c; bandwidth: 40MHz; Channel: middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11180.000	49.79	0.69	50.48	54.00	-3.52	peak
2	16770.000	42.48	8.84	51.32	68.30	-16.98	peak



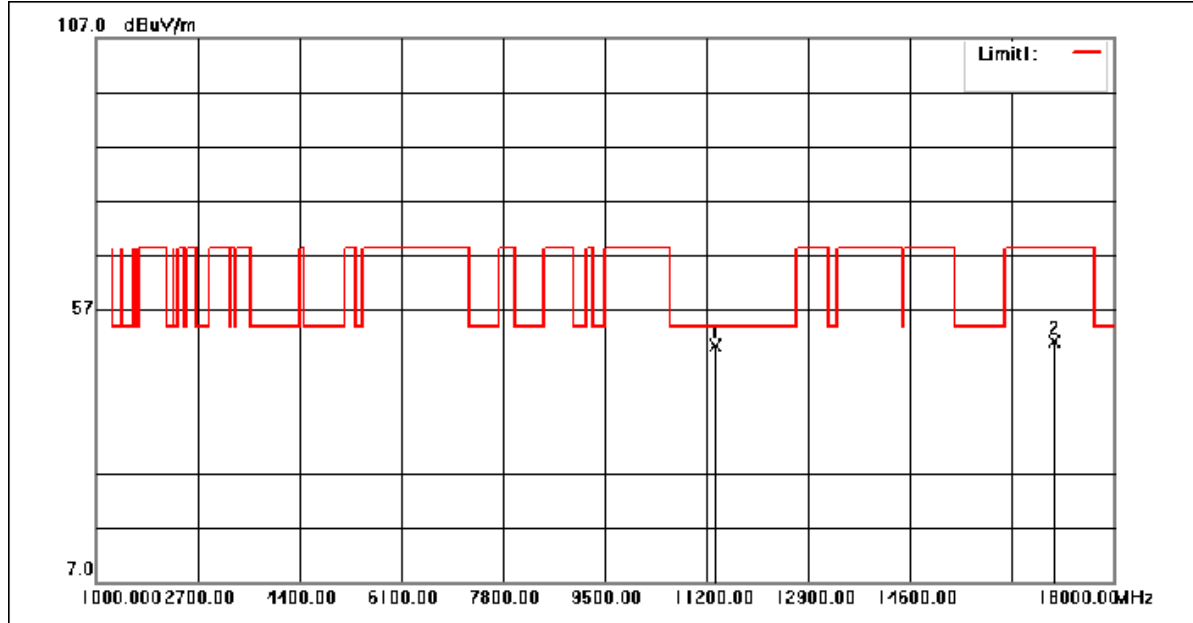
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Mode: d; Polarization: Horizontal; Modulation: c; bandwidth: 40MHz; Channel: High 1#



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11340.000	49.51	0.82	50.33	54.00	-3.67	peak
2	17010.000	41.95	9.18	51.13	68.30	-17.17	peak



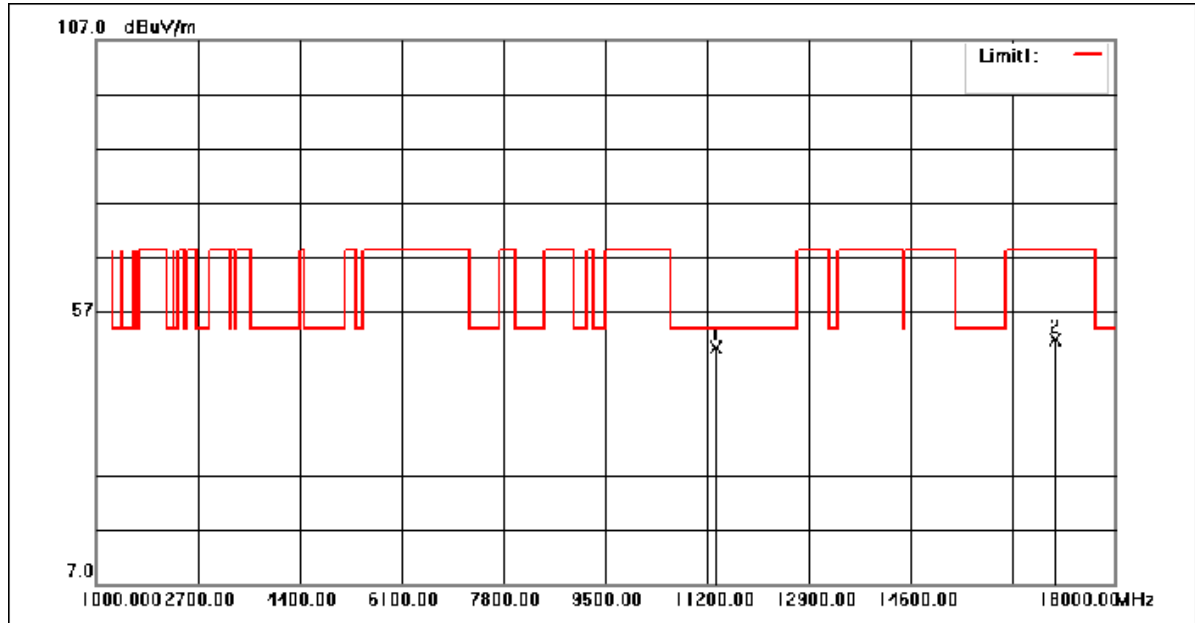
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Mode: d; Polarization: Vertical; Modulation: c; bandwidth: 40MHz; Channel: High 1#



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11340.000	49.47	0.82	50.29	54.00	-3.71	peak
2	17010.000	42.64	9.18	51.82	68.30	-16.48	peak

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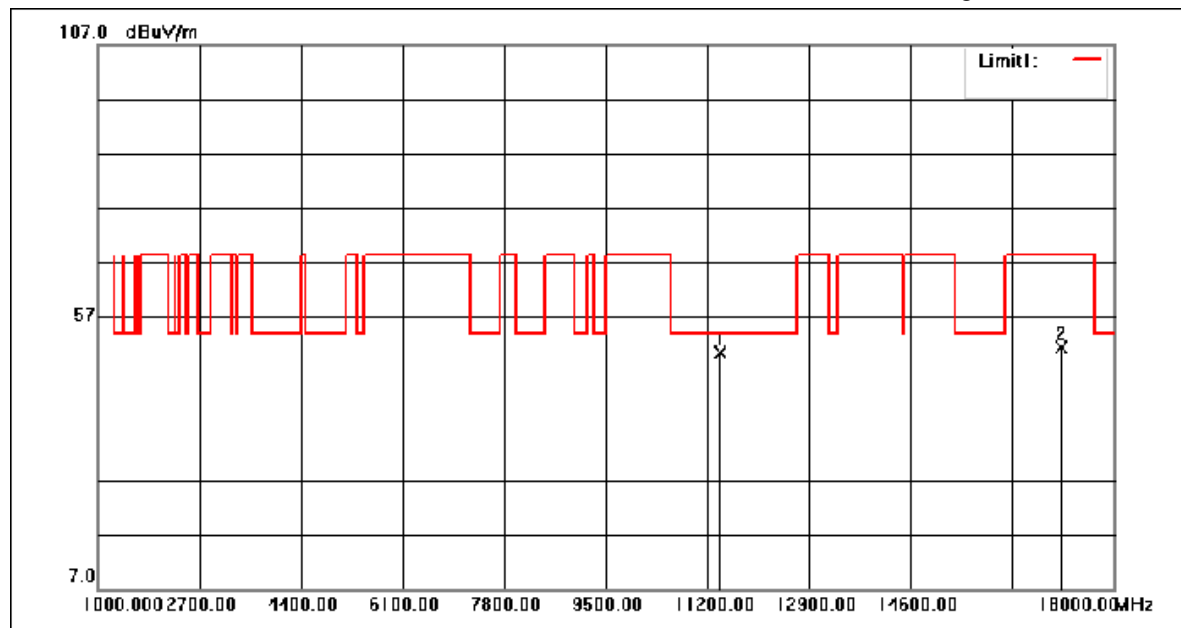
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Mode: d; Polarization: Horizontal; Modulation: c; bandwidth: 40MHz; Channel: High 2#



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11420.000	49.38	0.89	50.27	54.00	-3.73	peak
2	17130.000	42.18	9.11	51.29	68.30	-17.01	peak

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EMC Laboratory

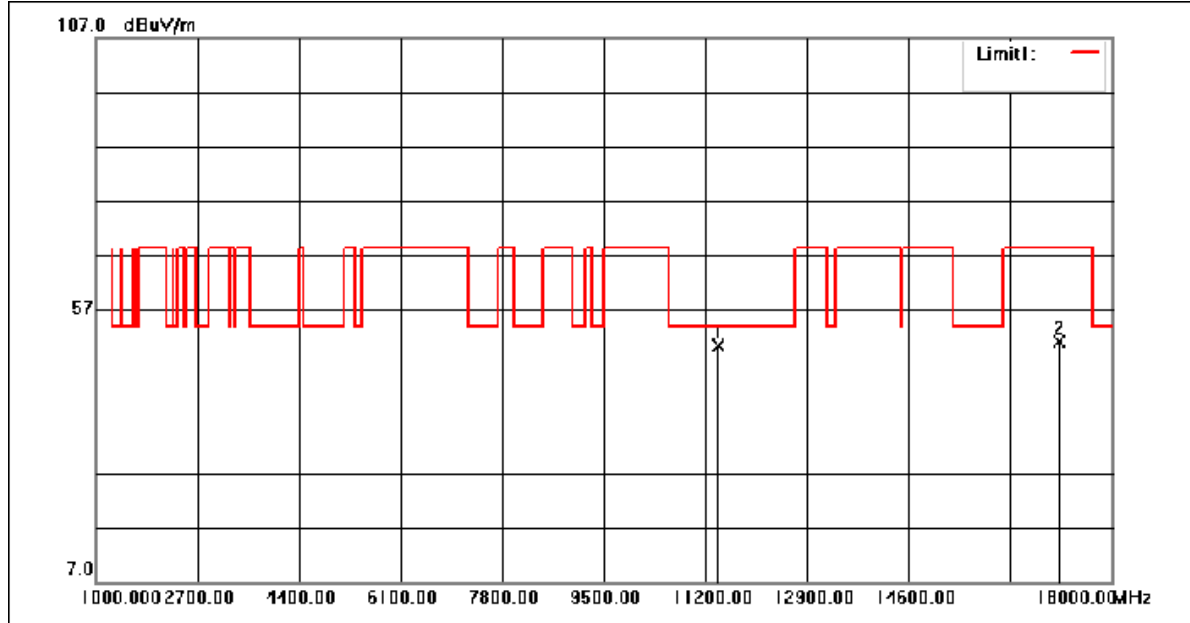
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Mode: d; Polarization: Vertical; Modulation: c; bandwidth: 40MHz; Channel: High 2#



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11420.000	49.48	0.89	50.37	54.00	-3.63	peak
2	17130.000	41.97	9.11	51.08	68.30	-17.22	peak



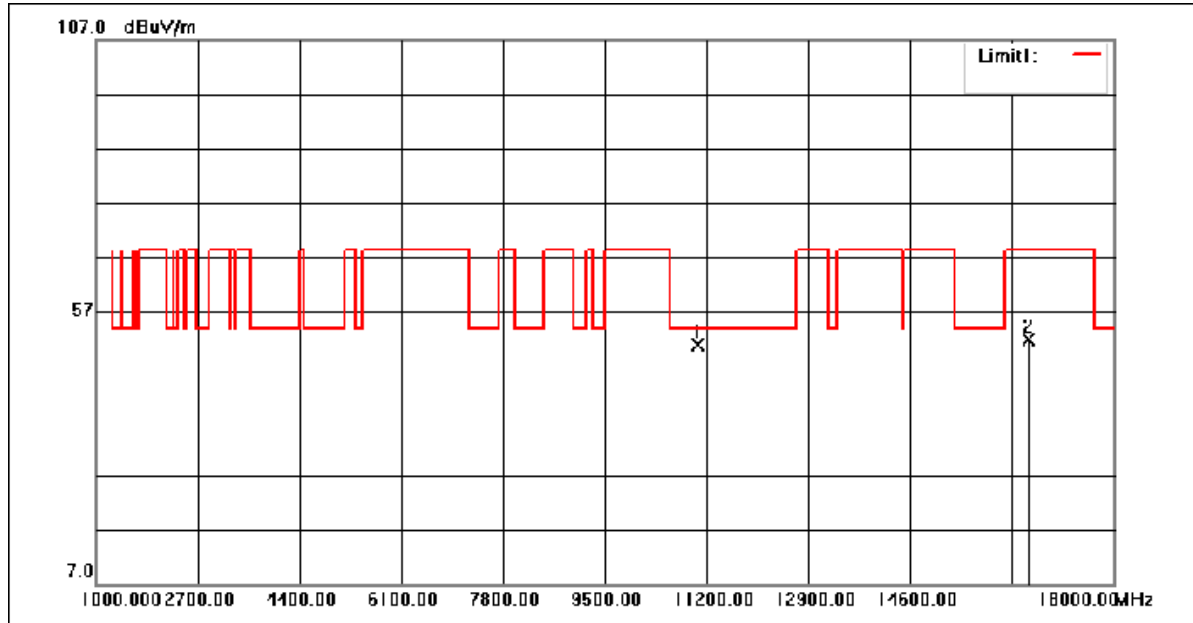
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Mode: d; Polarization: Horizontal; Modulation: c; bandwidth: 80MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11060.000	50.22	0.59	50.81	54.00	-3.19	peak
2	16590.000	43.22	8.56	51.78	68.30	-16.52	peak



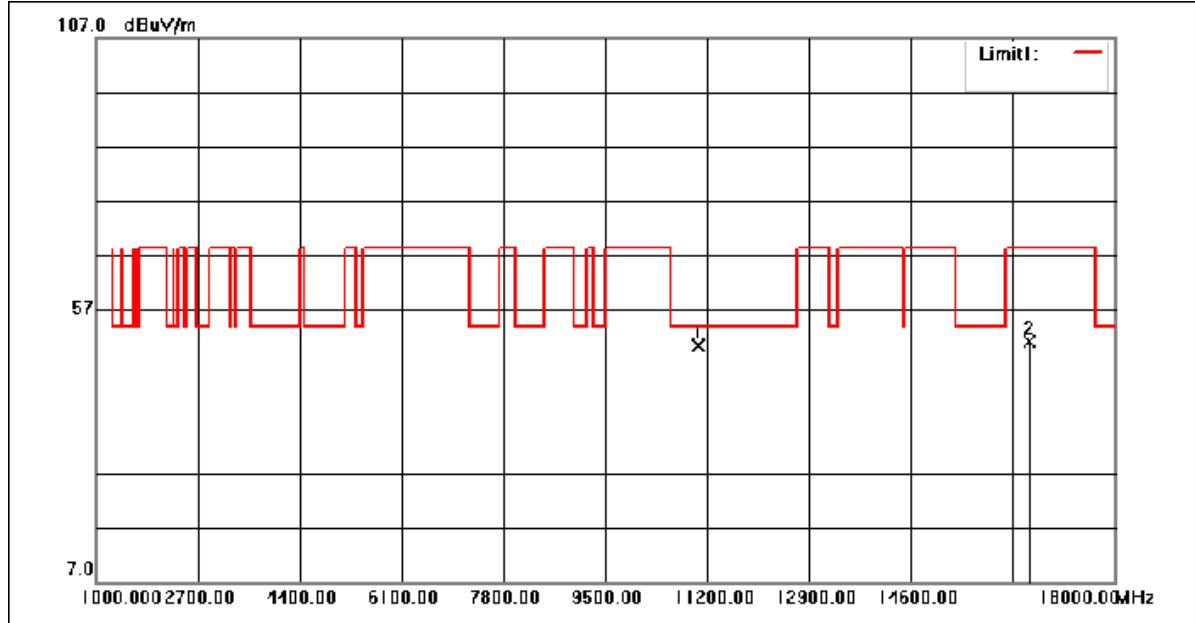
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Mode: d; Polarization: Vertical; Modulation: c; bandwidth: 80MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11060.000	49.69	0.59	50.28	54.00	-3.72	peak
2	16590.000	42.58	8.56	51.14	68.30	-17.16	peak



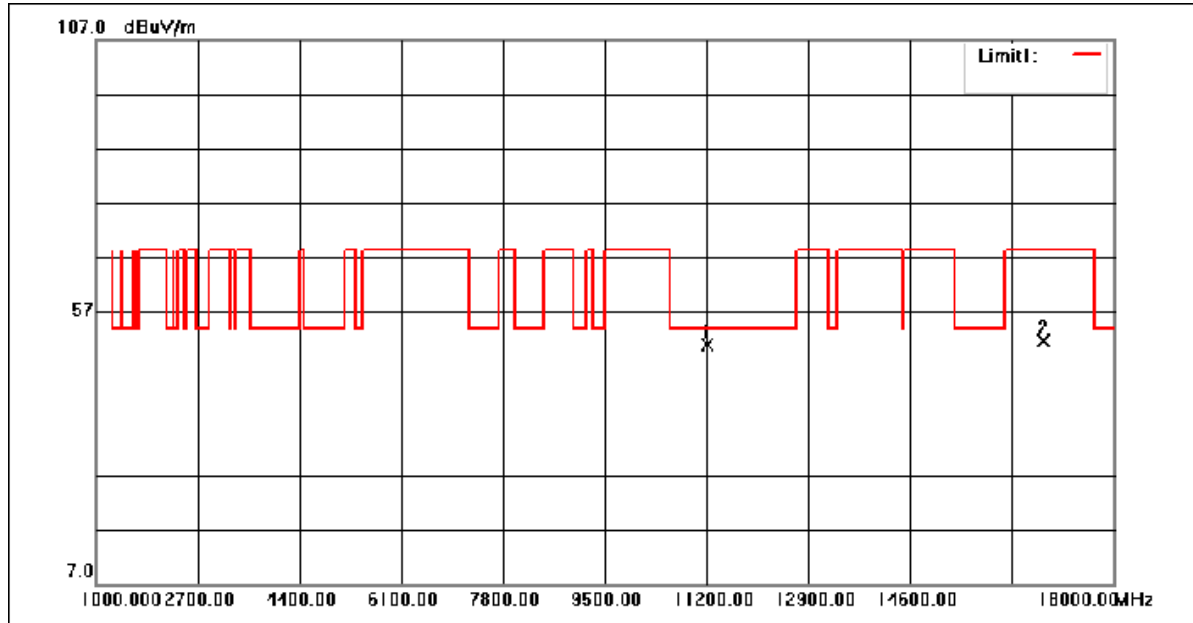
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Mode: d; Polarization: Horizontal; Modulation: c; bandwidth: 80MHz; Channel: High 1#



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11220.000	50.12	0.72	50.84	54.00	-3.16	peak
2	16830.000	42.65	8.93	51.58	68.30	-16.72	peak



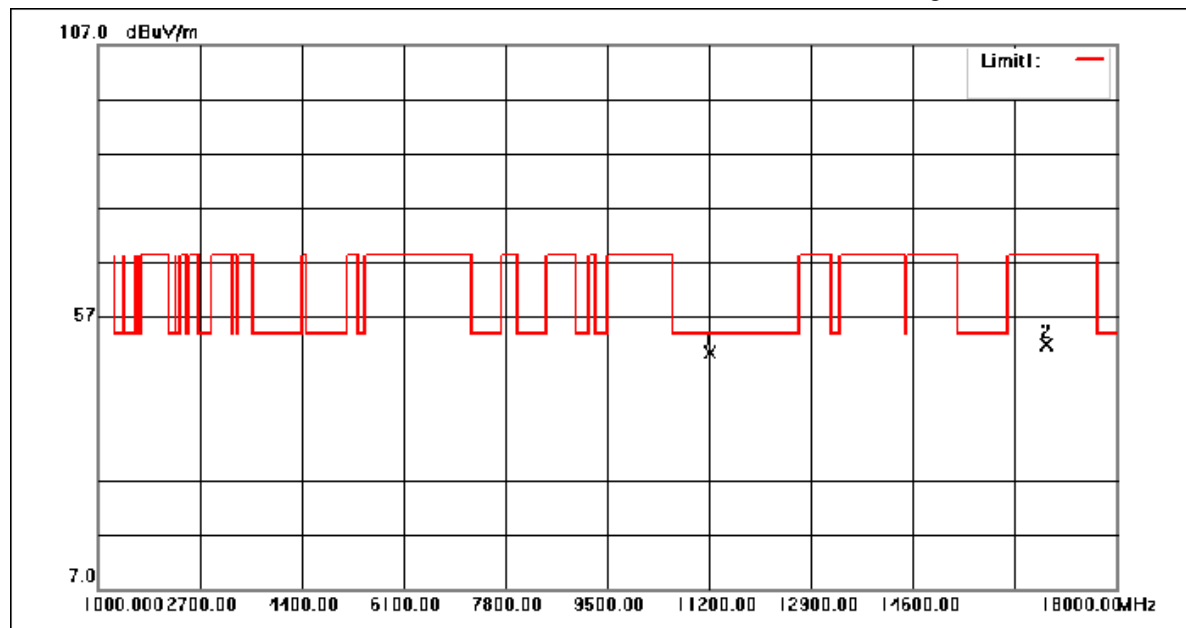
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Mode: d; Polarization: Vertical; Modulation: c; bandwidth: 80MHz; Channel: High 1#



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11220.000	49.62	0.72	50.34	54.00	-3.66	peak
2	16830.000	43.05	8.93	51.98	68.30	-16.32	peak



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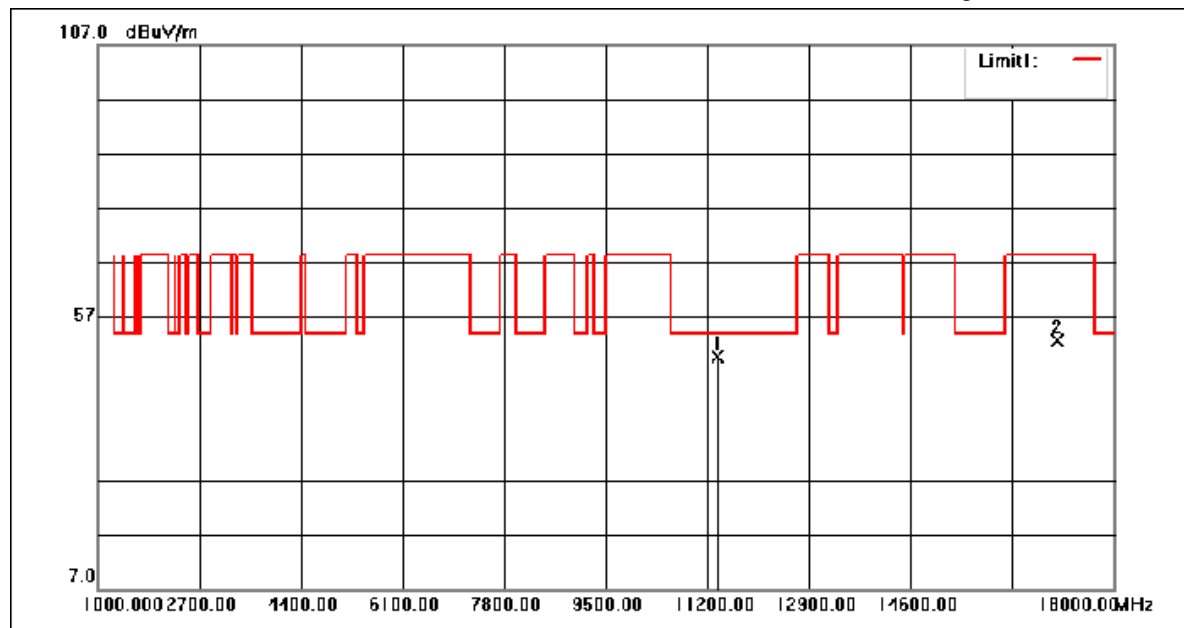
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Mode: d; Polarization: Horizontal; Modulation: c; bandwidth: 80MHz; Channel: High 2#



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11380.000	48.89	0.86	49.75	54.00	-4.25	peak
2	17070.000	43.58	9.14	52.72	68.30	-15.58	peak

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EMC Laboratory

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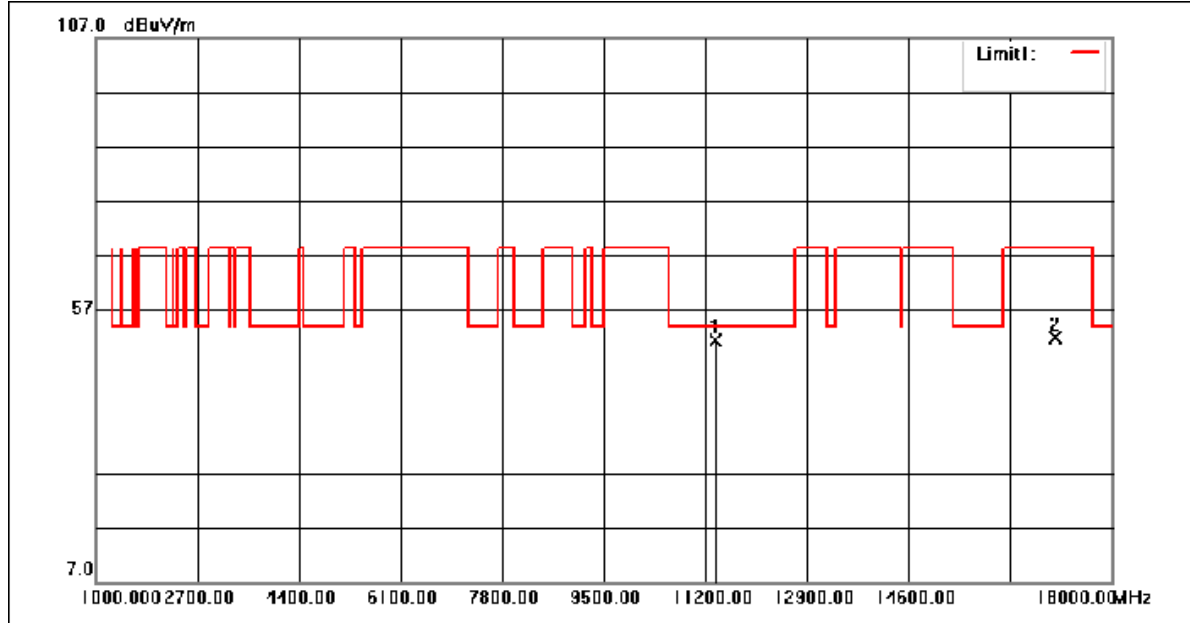
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Mode: d; Polarization: Vertical; Modulation: c; bandwidth: 80MHz; Channel: High 2#



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11380.000	50.56	0.86	51.42	54.00	-2.58	peak
2	17070.000	42.80	9.14	51.94	68.30	-16.36	peak



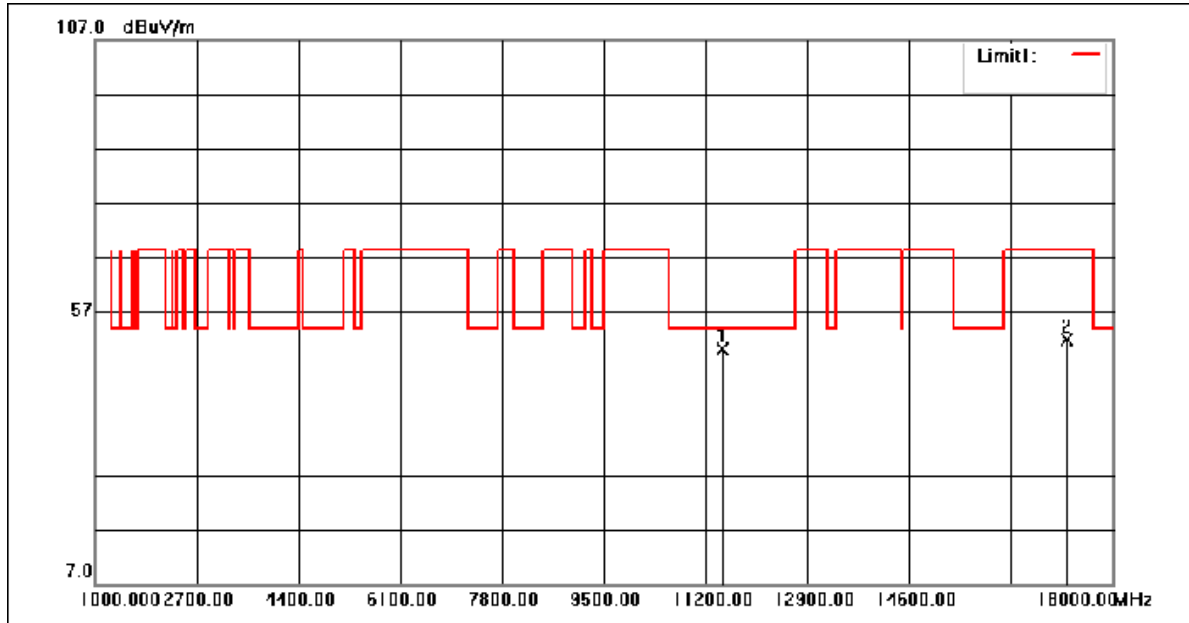
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Mode: e; Polarization: Horizontal; Modulation: a; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	49.09	0.94	50.03	54.00	-3.97	peak
2	17235.000	42.76	9.05	51.81	68.30	-16.49	peak



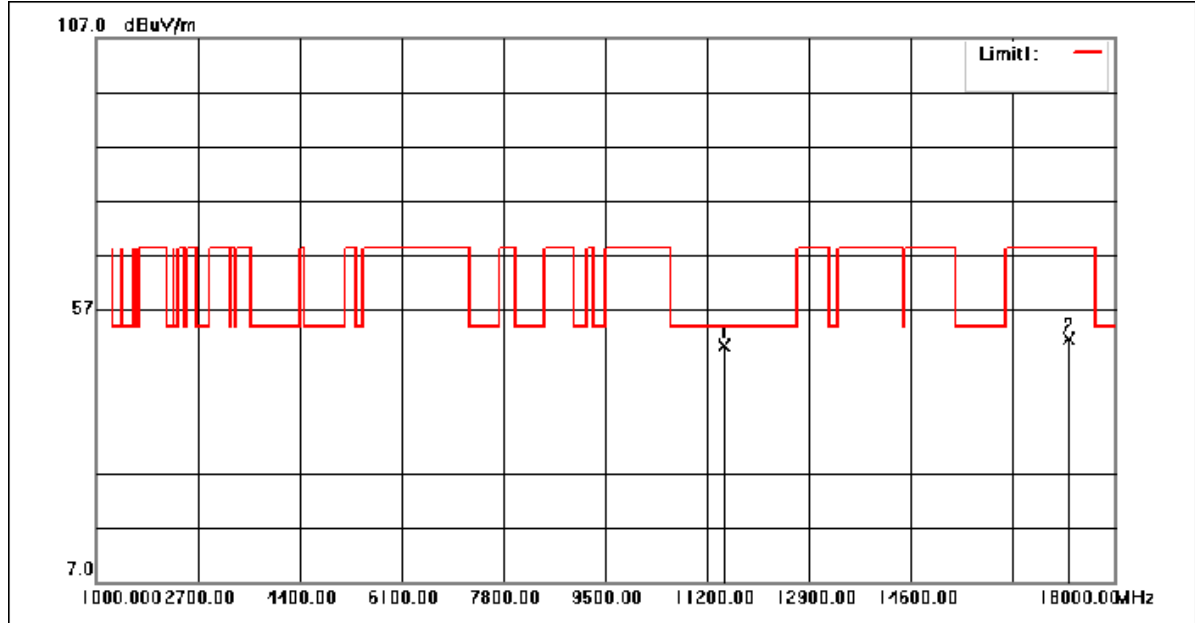
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Mode: e; Polarization: Vertical; Modulation: a; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	49.40	0.94	50.34	54.00	-3.66	peak
2	17235.000	42.56	9.05	51.61	68.30	-16.69	peak



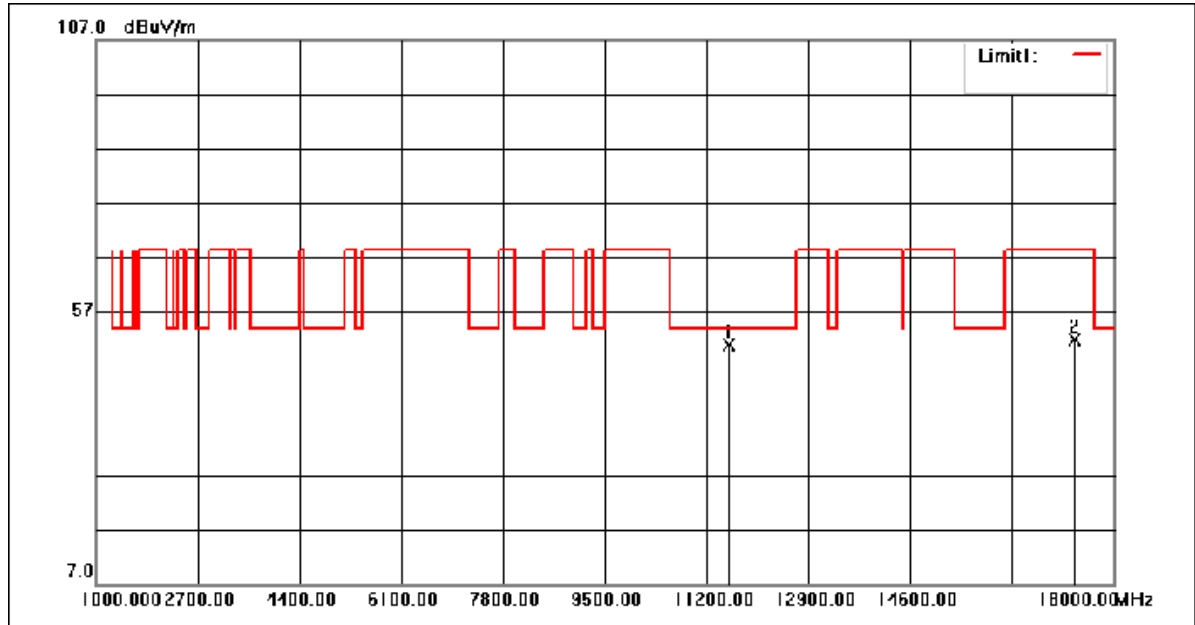
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Mode: e; Polarization: Horizontal; Modulation: a; bandwidth: 20MHz; Channel: middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	49.66	1.18	50.84	54.00	-3.16	peak
2	17355.000	42.95	8.98	51.93	68.30	-16.37	peak



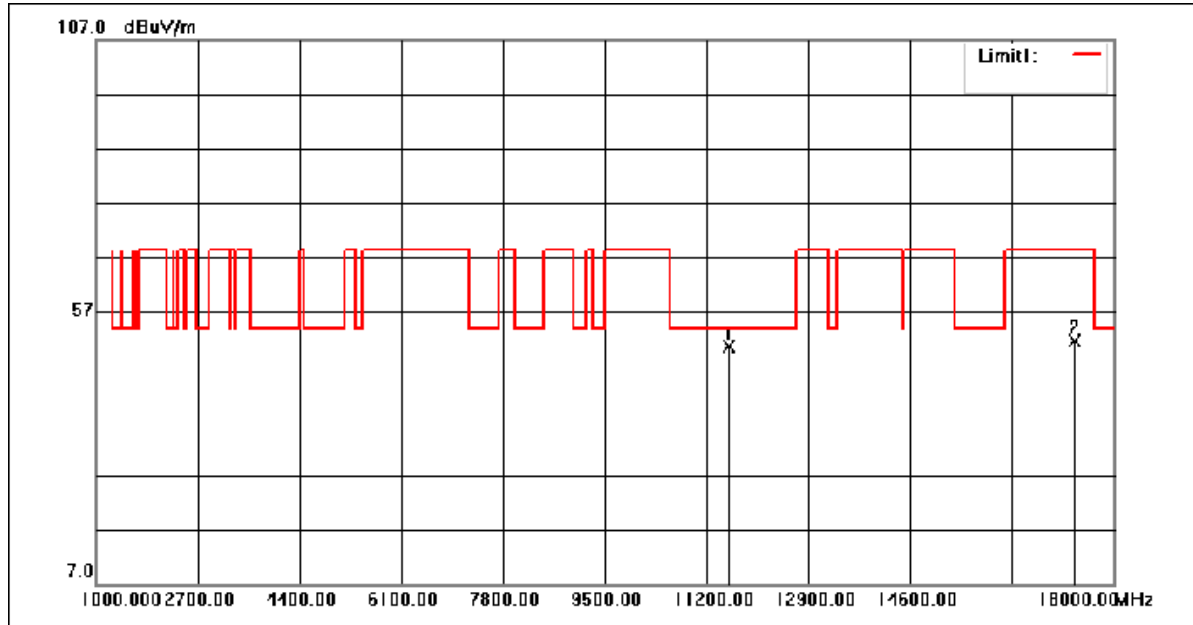
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Mode: e; Polarization: Vertical; Modulation: a; bandwidth: 20MHz; Channel: middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	49.38	1.18	50.56	54.00	-3.44	peak
2	17355.000	42.57	8.98	51.55	68.30	-16.75	peak



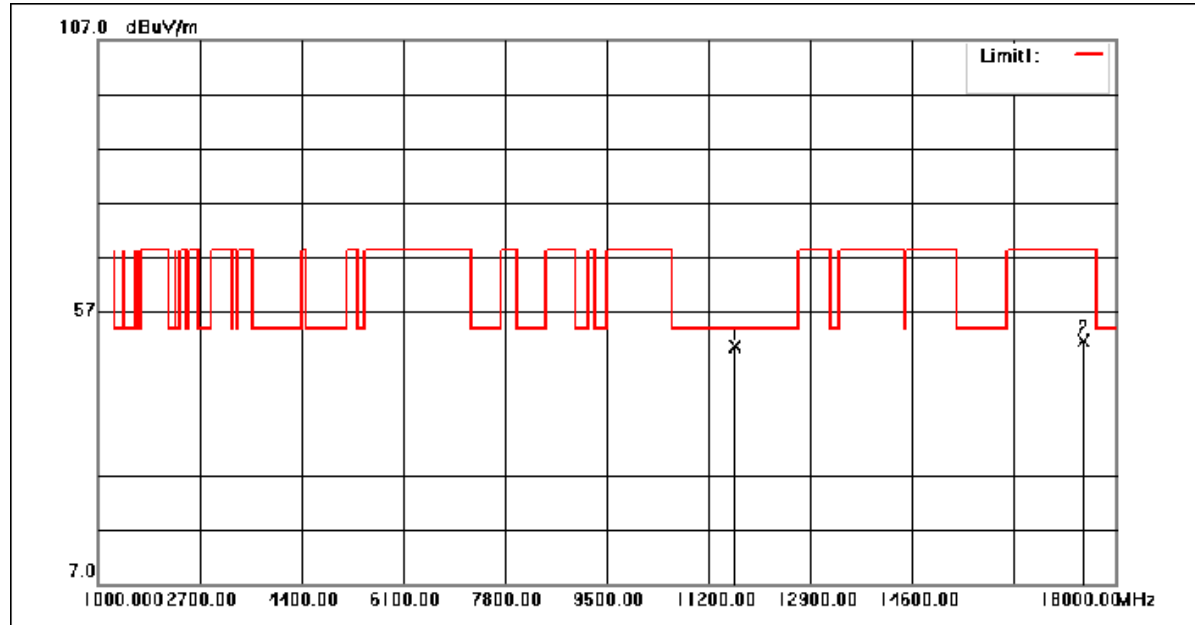
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Mode: e; Polarization: Horizontal; Modulation: a; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	49.06	1.45	50.51	54.00	-3.49	peak
2	17475.000	42.72	8.90	51.62	68.30	-16.68	peak



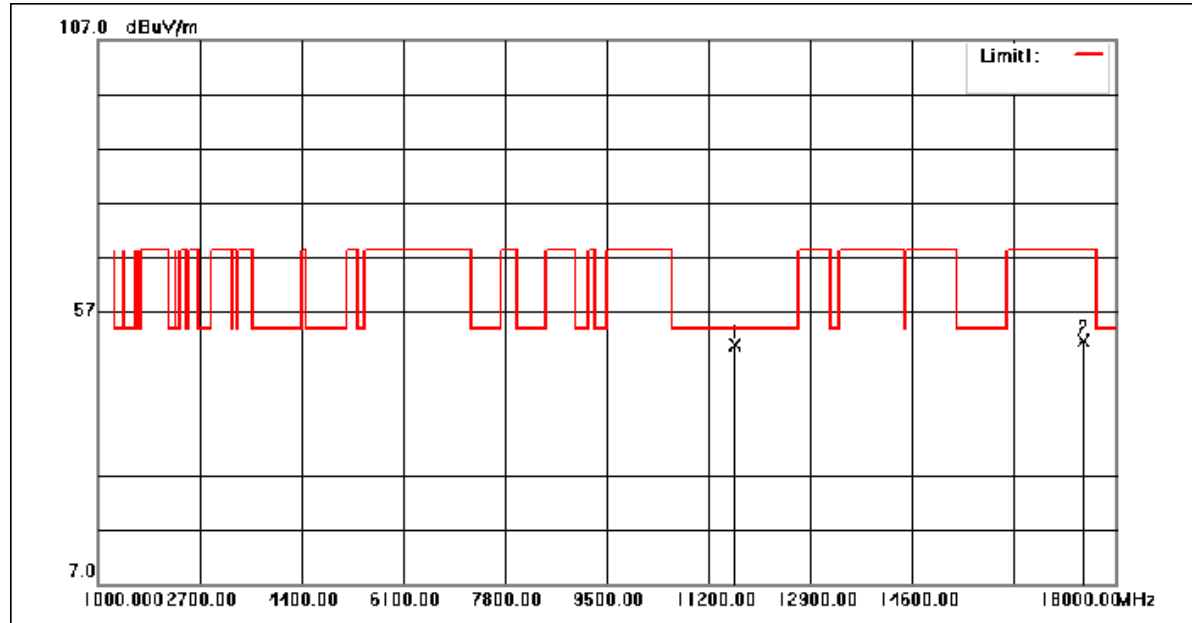
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Mode: e; Polarization: Vertical; Modulation: a; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	49.44	1.45	50.89	54.00	-3.11	peak
2	17475.000	42.61	8.90	51.51	68.30	-16.79	peak



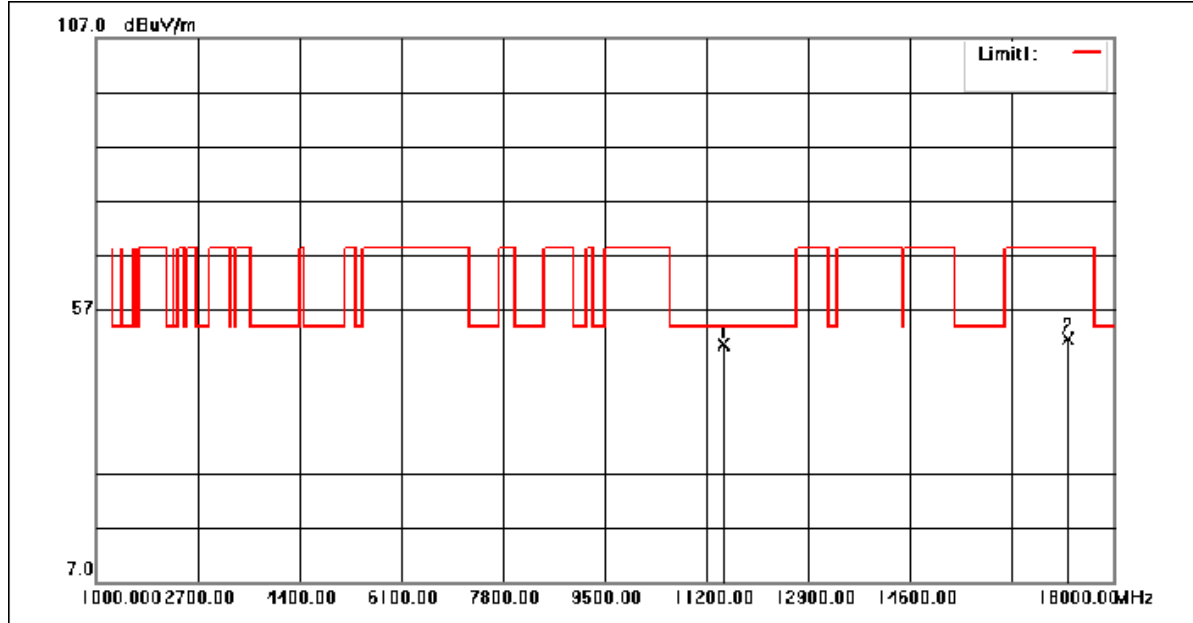
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Mode: e; Polarization: Horizontal; Modulation: n; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	49.77	0.94	50.71	54.00	-3.29	peak
2	17235.000	42.63	9.05	51.68	68.30	-16.62	peak



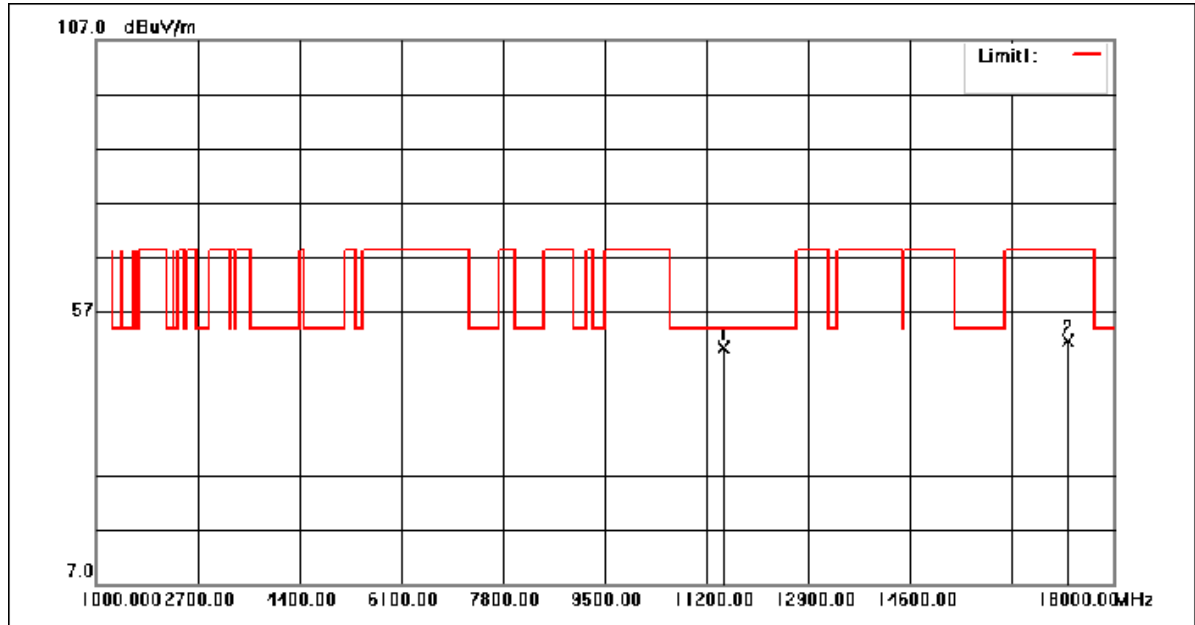
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Mode: e; Polarization: Vertical; Modulation: n; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	49.41	0.94	50.35	54.00	-3.65	peak
2	17235.000	42.58	9.05	51.63	68.30	-16.67	peak



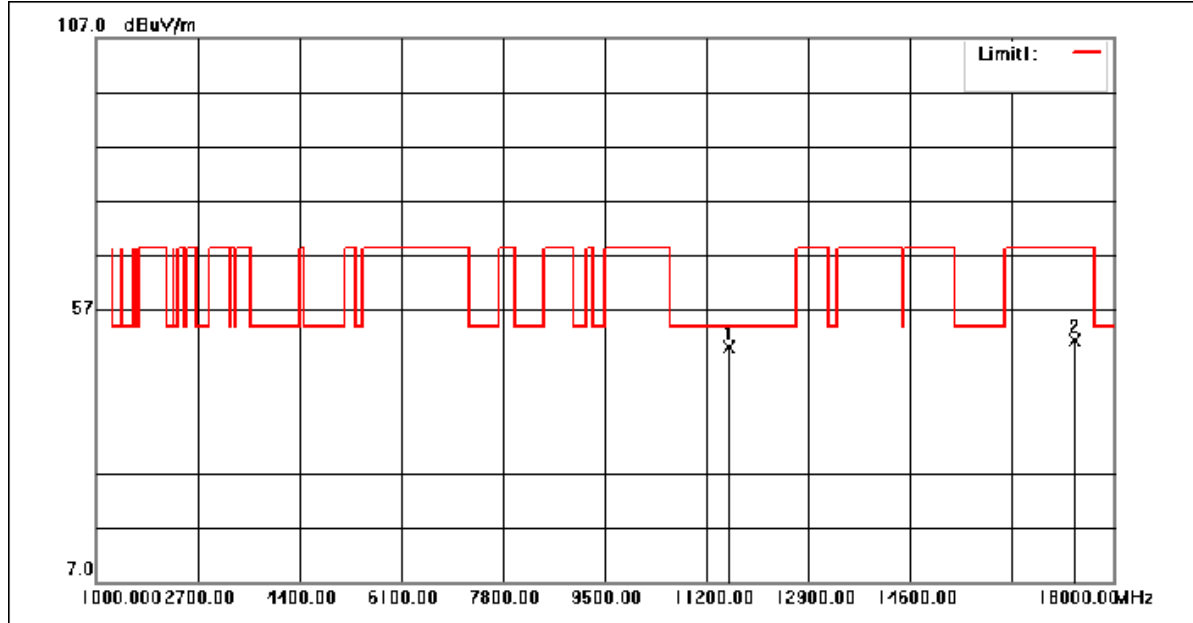
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Mode: e; Polarization: Horizontal; Modulation: n; bandwidth: 20MHz; Channel: middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	48.99	1.18	50.17	54.00	-3.83	peak
2	17355.000	42.43	8.98	51.41	68.30	-16.89	peak



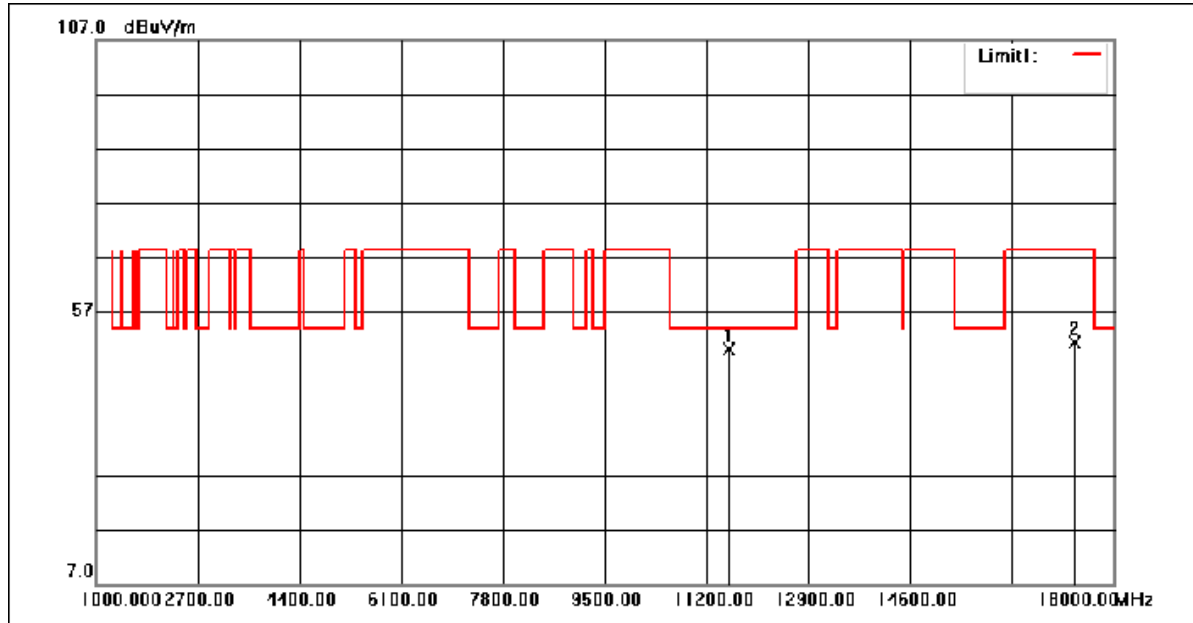
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Mode: e; Polarization: Vertical; Modulation: n; bandwidth: 20MHz; Channel: middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	48.93	1.18	50.11	54.00	-3.89	peak
2	17355.000	42.47	8.98	51.45	68.30	-16.85	peak

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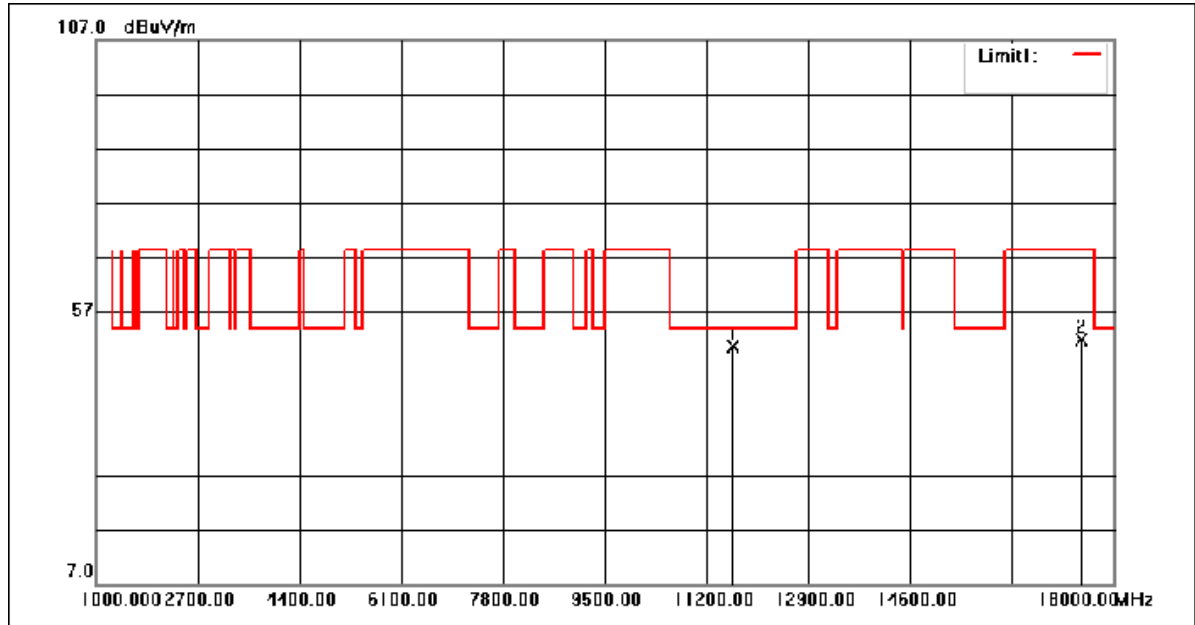
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Mode: e; Polarization: Horizontal; Modulation: n; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	49.09	1.45	50.54	54.00	-3.46	peak
2	17475.000	43.07	8.90	51.97	68.30	-16.33	peak



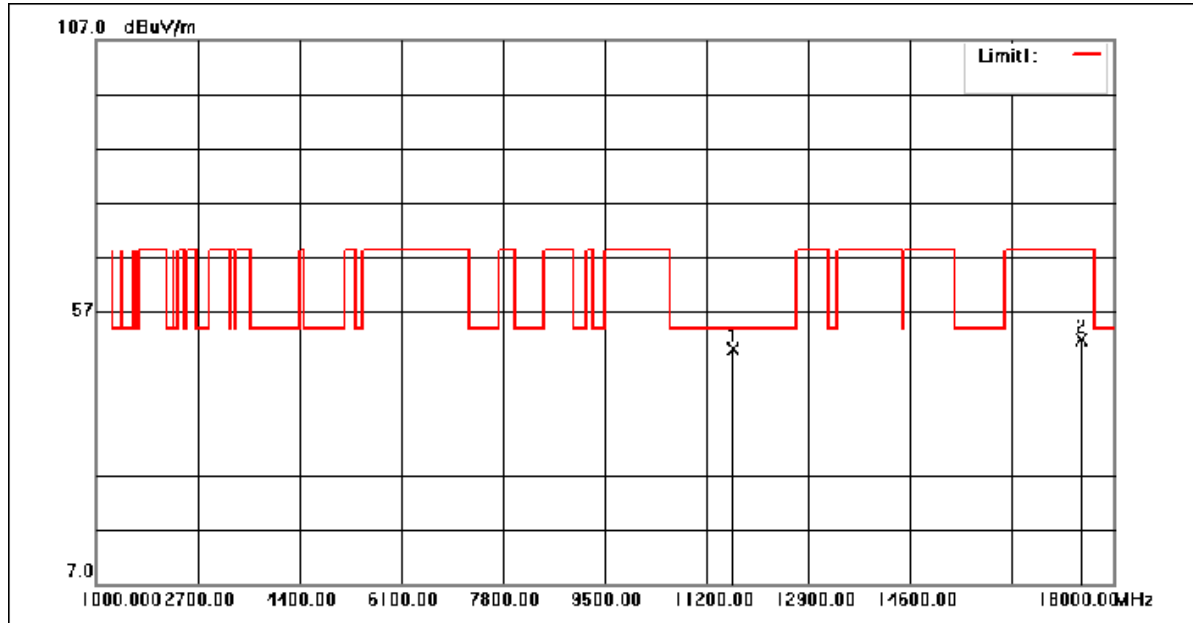
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Mode: e; Polarization: Vertical; Modulation: n; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	48.65	1.45	50.10	54.00	-3.90	peak
2	17475.000	42.93	8.90	51.83	68.30	-16.47	peak

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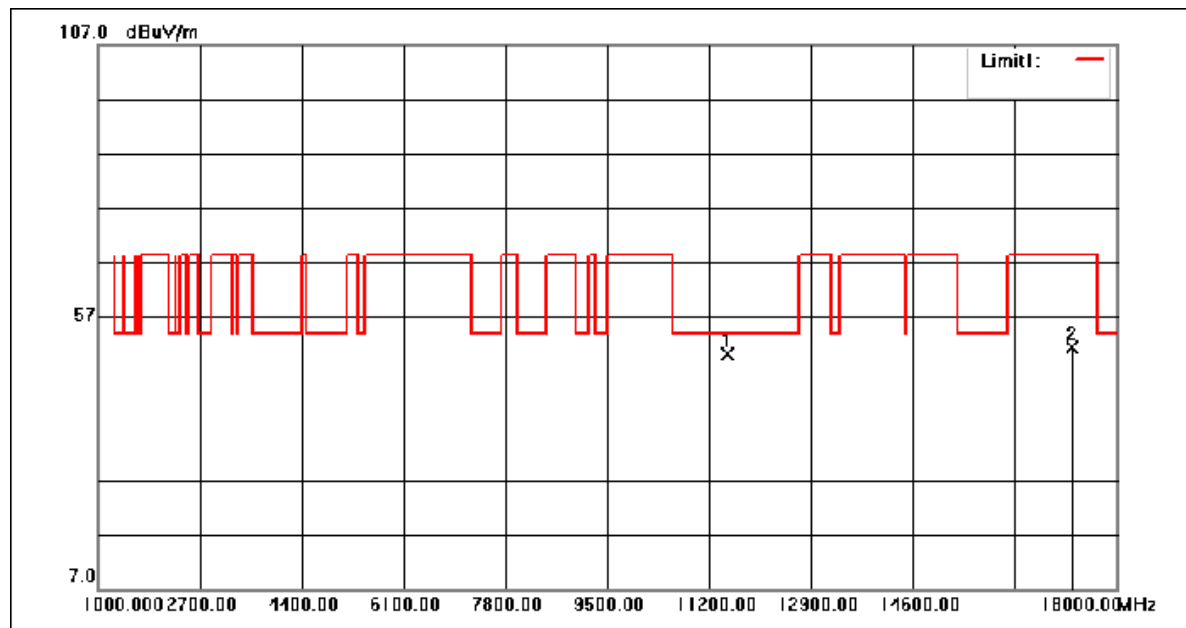
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Mode: e; Polarization: Horizontal; Modulation: n; bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	49.13	0.99	50.12	54.00	-3.88	peak
2	17265.000	42.37	9.03	51.40	68.30	-16.90	peak

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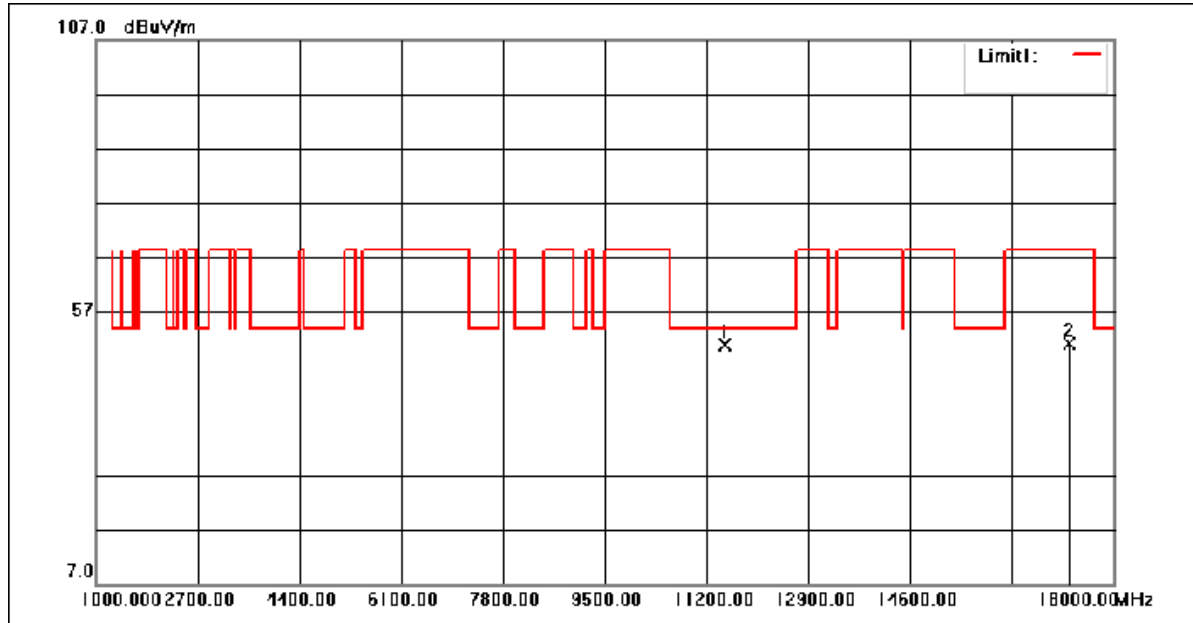
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Mode: e; Polarization: Vertical; Modulation: n; bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	49.79	0.99	50.78	54.00	-3.22	peak
2	17265.000	42.22	9.03	51.25	68.30	-17.05	peak

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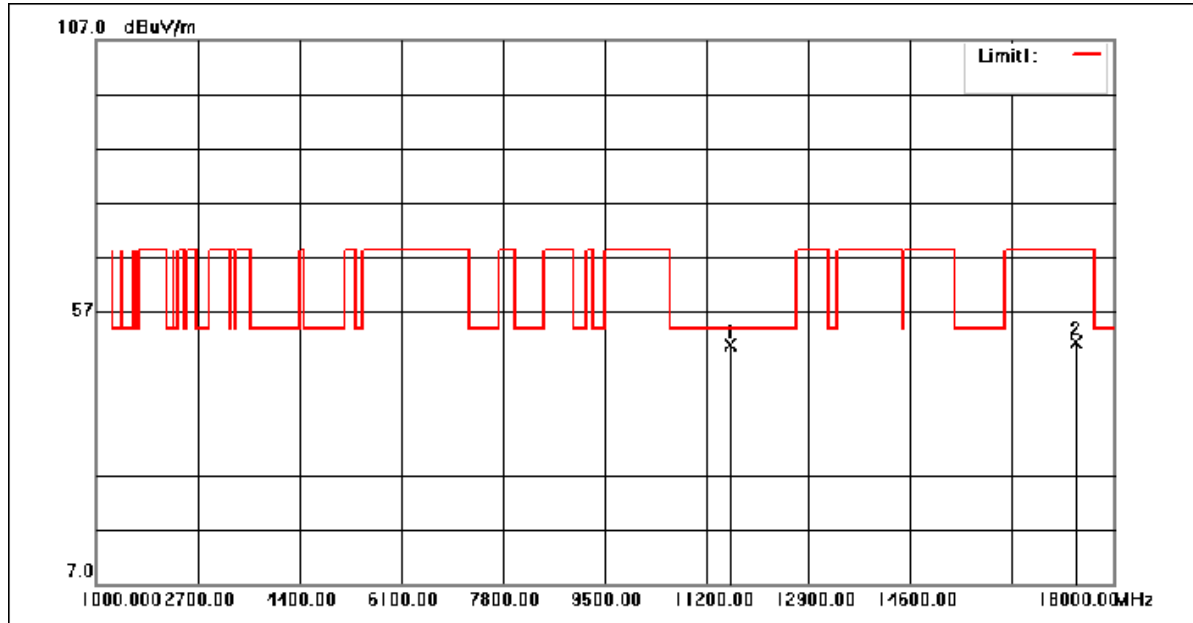
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Mode: e; Polarization: Horizontal; Modulation: n; bandwidth: 40MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	49.61	1.25	50.86	54.00	-3.14	peak
2	17385.000	42.45	8.96	51.41	68.30	-16.89	peak



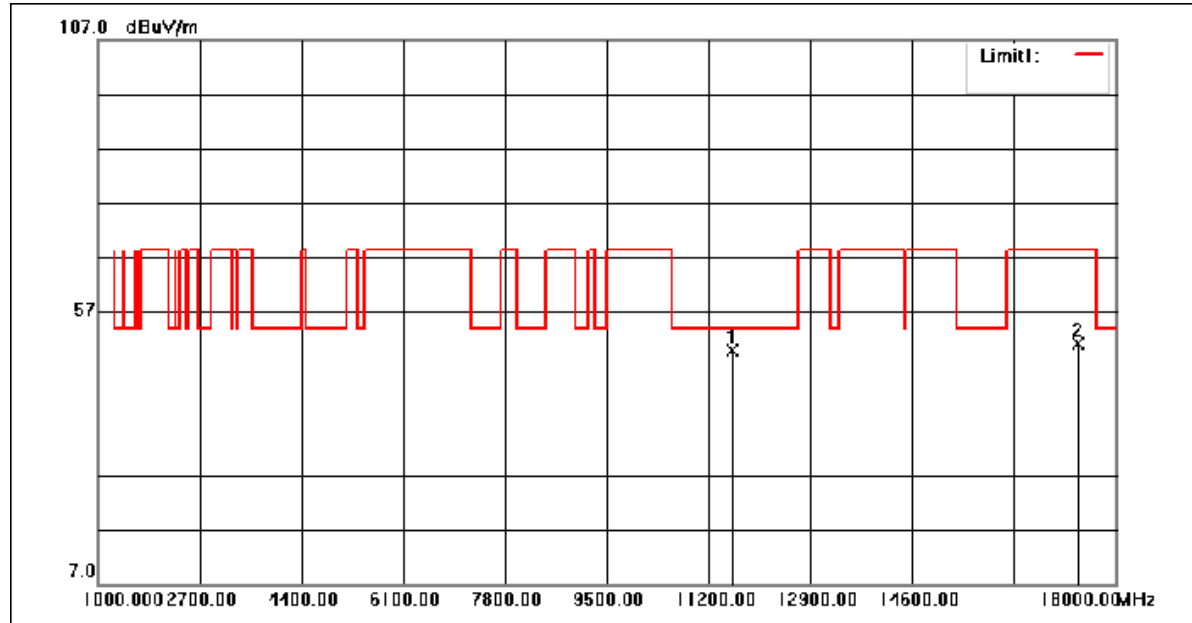
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	48.75	1.25	50.00	54.00	-4.00	peak
2	17385.000	42.05	8.96	51.01	68.30	-17.29	peak



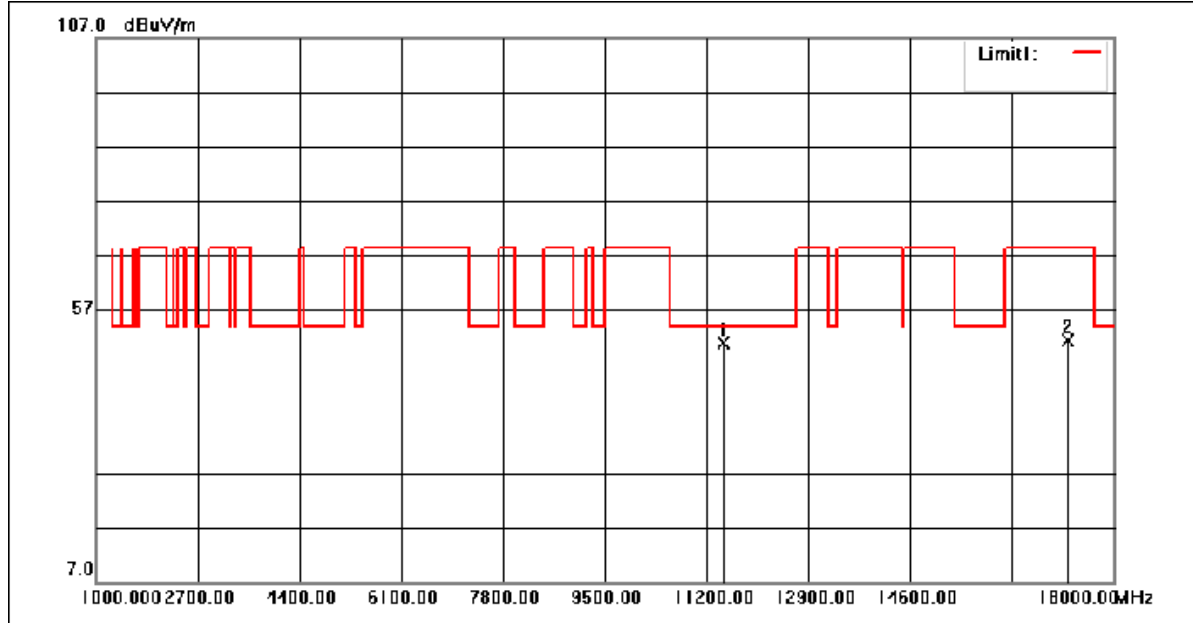
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Mode: e; Polarization: Horizontal; Modulation: c; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	49.85	0.94	50.79	54.00	-3.21	peak
2	17235.000	42.31	9.05	51.36	68.30	-16.94	peak



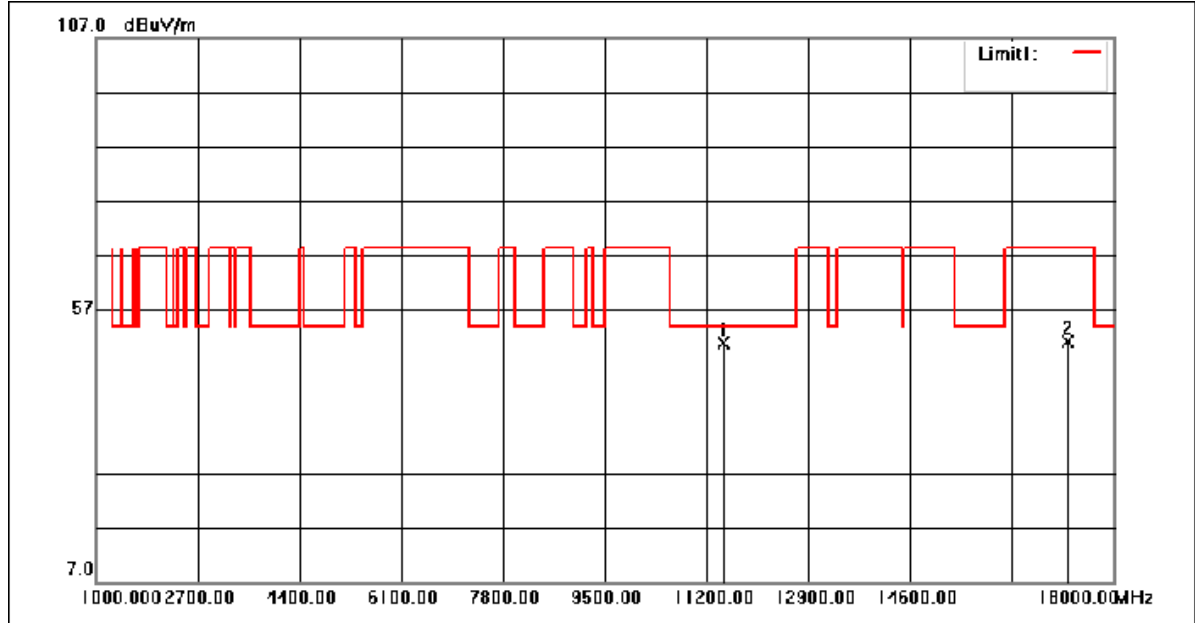
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Mode: e; Polarization: Vertical; Modulation: c; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	49.83	0.94	50.77	54.00	-3.23	peak
2	17235.000	42.11	9.05	51.16	68.30	-17.14	peak



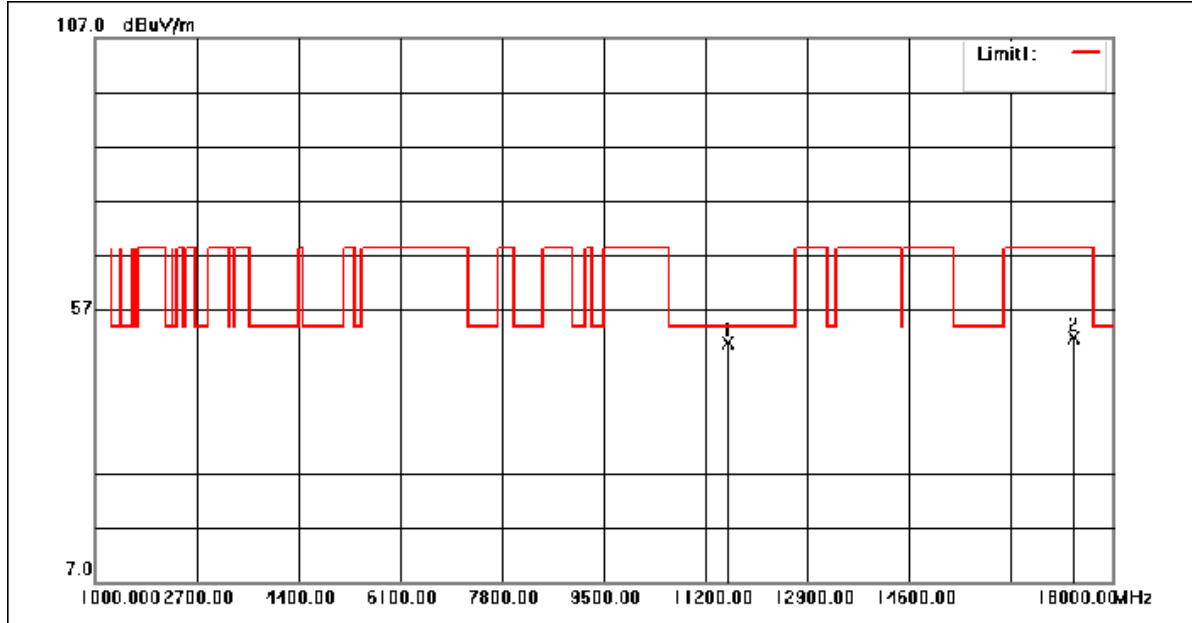
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Mode: e; Polarization: Horizontal; Modulation: c; bandwidth: 20MHz; Channel: middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	49.74	1.18	50.92	54.00	-3.08	peak
2	17355.000	42.78	8.98	51.76	68.30	-16.54	peak



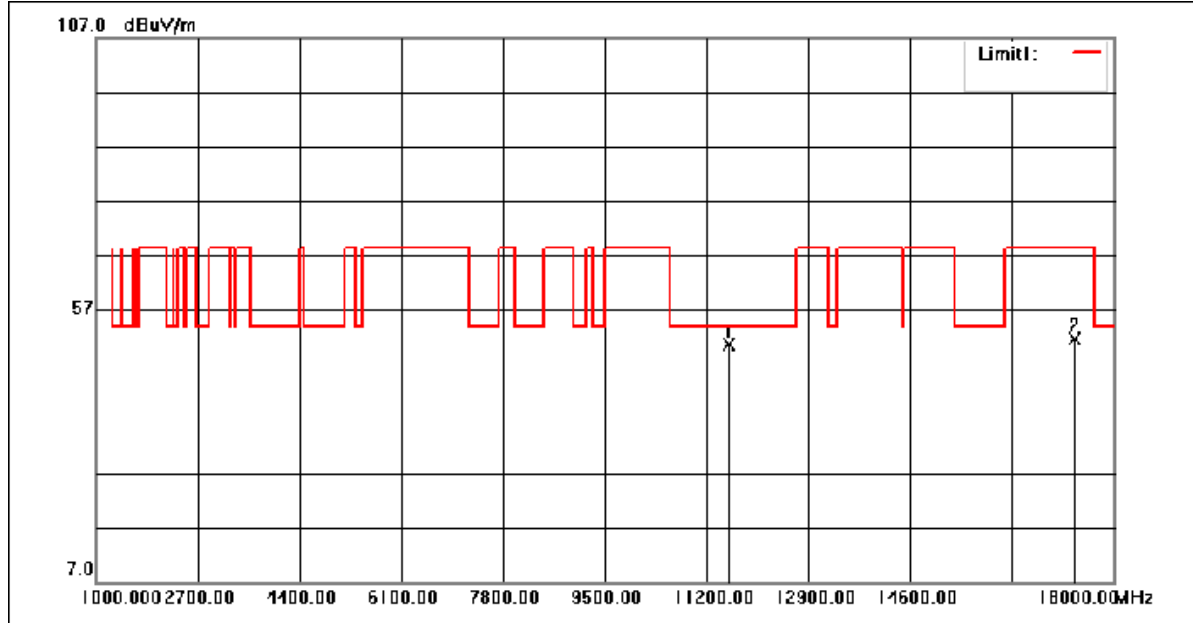
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Mode: e; Polarization: Vertical; Modulation: c; bandwidth: 20MHz; Channel: middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	49.51	1.18	50.69	54.00	-3.31	peak
2	17355.000	42.54	8.98	51.52	68.30	-16.78	peak



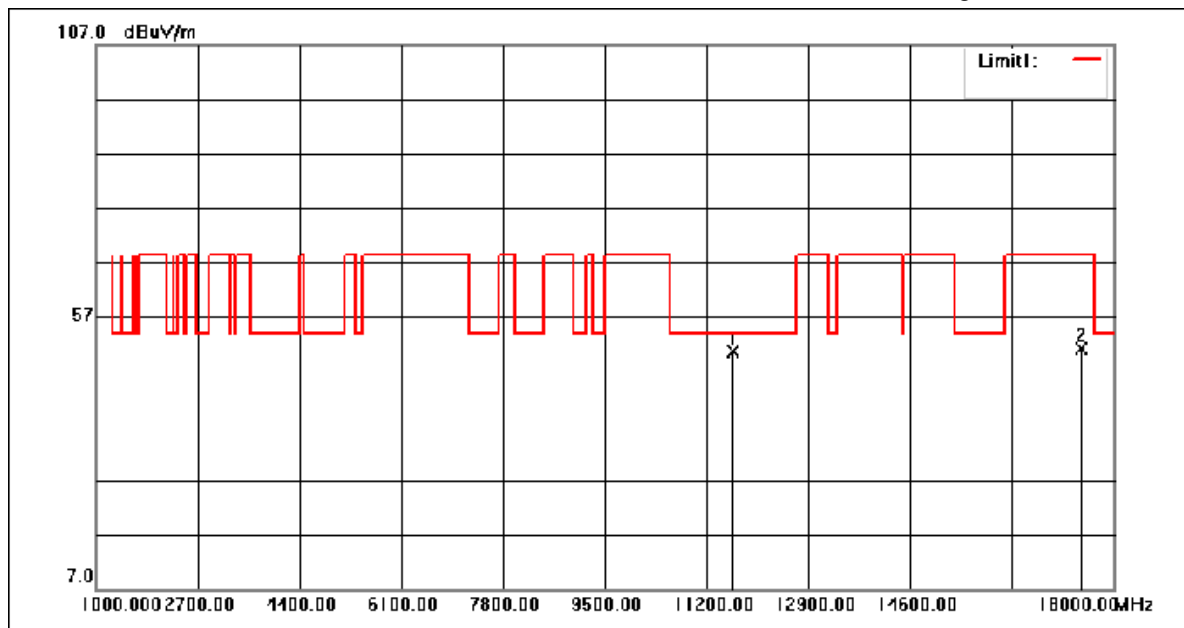
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Mode: e; Polarization: Horizontal; Modulation: c; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	49.26	1.45	50.71	54.00	-3.29	peak
2	17475.000	42.23	8.90	51.13	68.30	-17.17	peak

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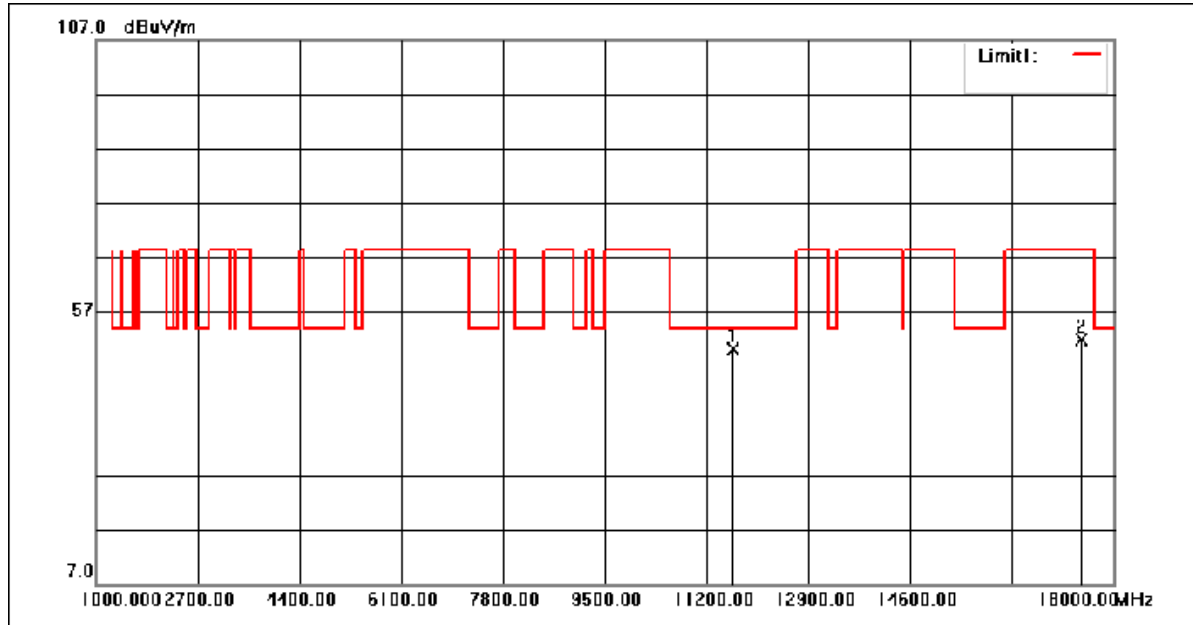
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Mode: e; Polarization: Vertical; Modulation: c; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	48.78	1.45	50.23	54.00	-3.77	peak
2	17475.000	43.05	8.90	51.95	68.30	-16.35	peak



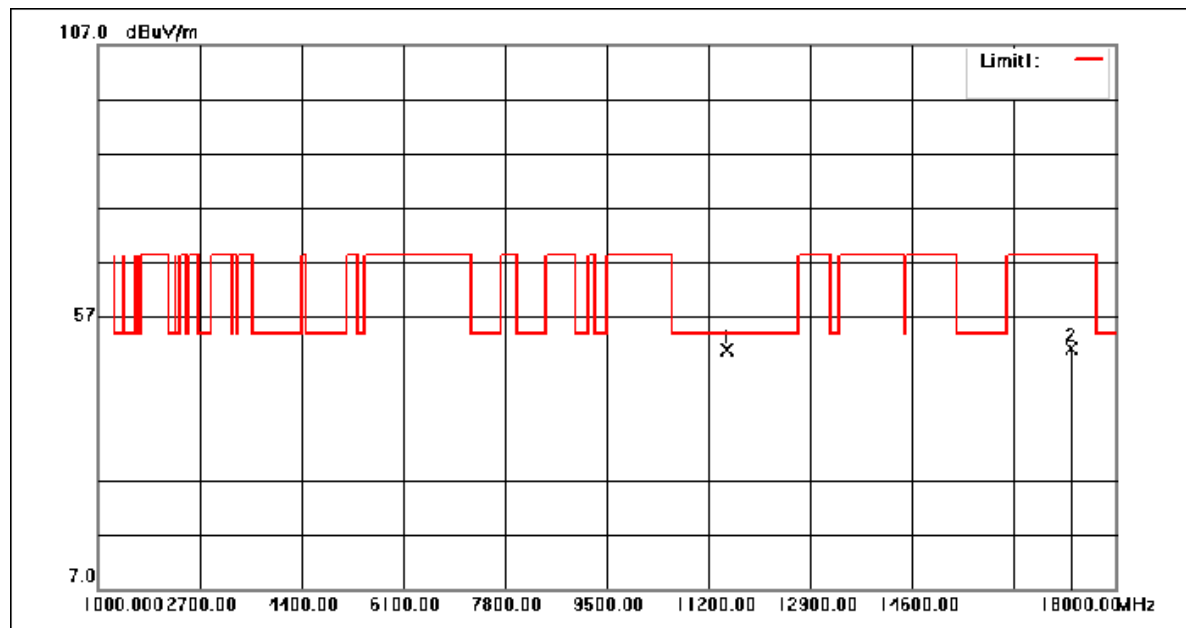
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Mode: e; Polarization: Horizontal; Modulation: c; bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	49.81	0.99	50.80	54.00	-3.20	peak
2	17265.000	42.00	9.03	51.03	68.30	-17.27	peak



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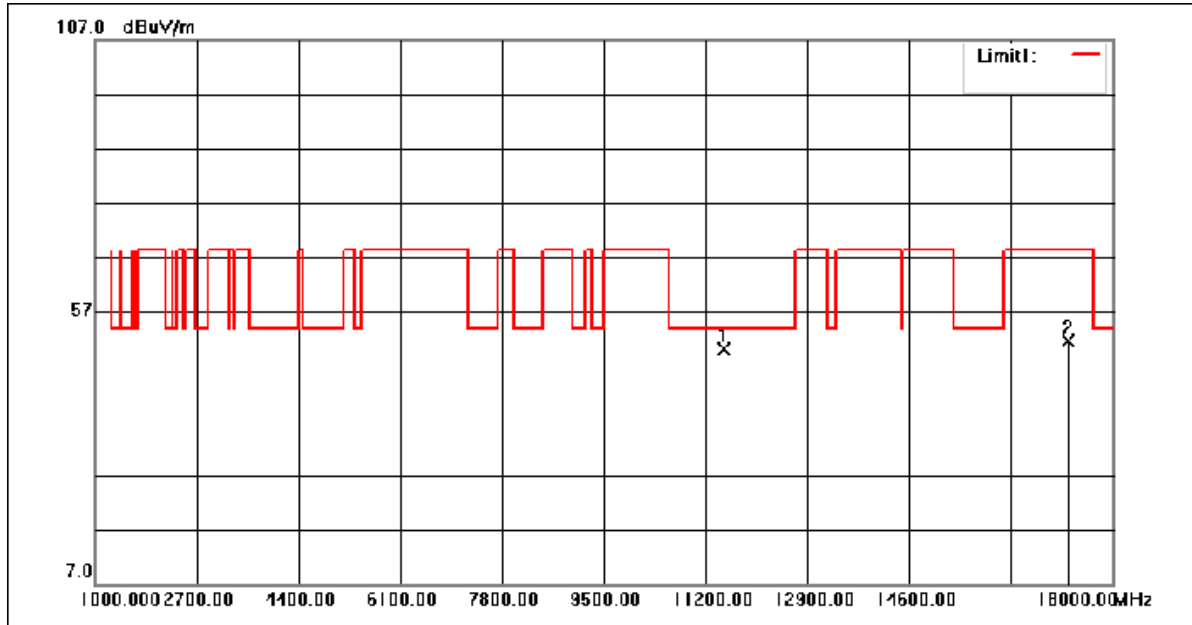
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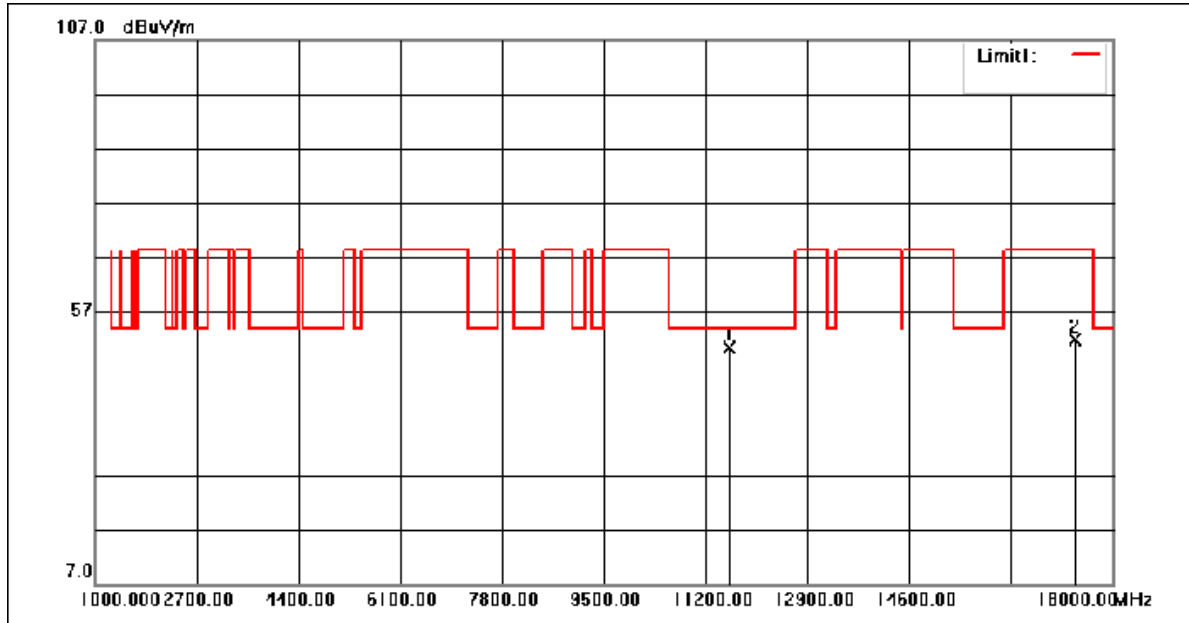
Mode: e; Polarization: Vertical; Modulation: c; bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	49.08	0.99	50.07	54.00	-3.93	peak
2	17265.000	42.65	9.03	51.68	68.30	-16.62	peak



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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	49.12	1.25	50.37	54.00	-3.63	peak
2	17385.000	42.80	8.96	51.76	68.30	-16.54	peak

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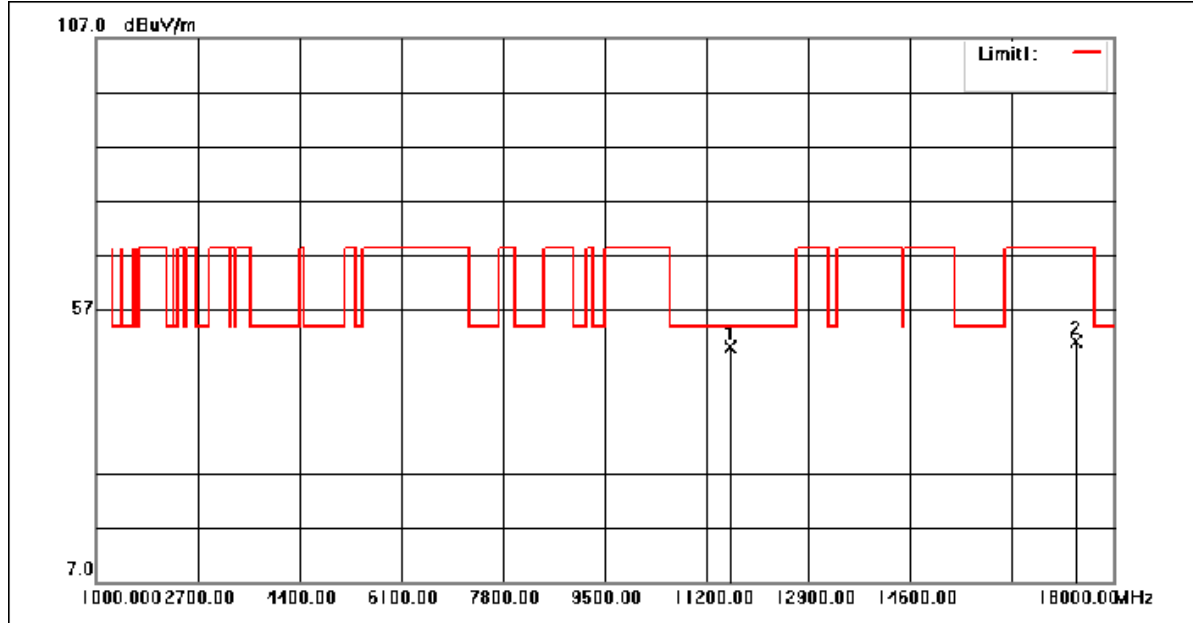
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Mode: e; Polarization: Vertical; Modulation: c; bandwidth: 40MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	48.89	1.25	50.14	54.00	-3.86	peak
2	17385.000	42.19	8.96	51.15	68.30	-17.15	peak



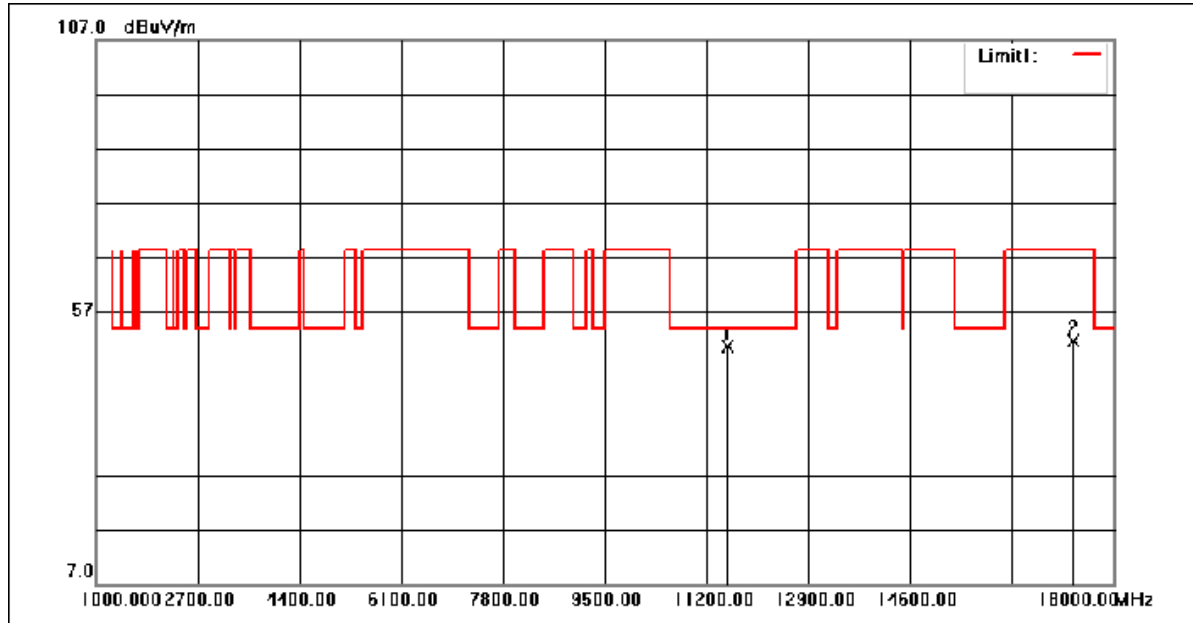
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Mode: e; Polarization: Horizontal; Modulation: c; bandwidth: 80MHz; Channel: middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11550.000	49.39	1.12	50.51	54.00	-3.49	peak
2	17325.000	42.68	8.99	51.67	68.30	-16.63	peak



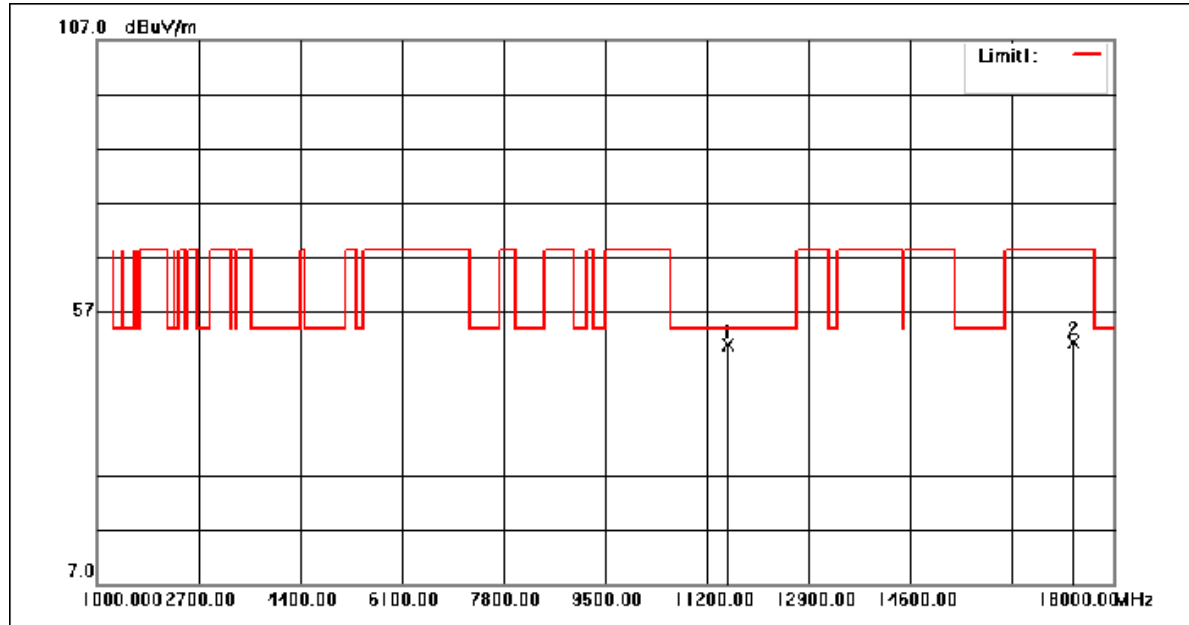
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Mode: e; Polarization: Vertical; Modulation: c; bandwidth: 80MHz; Channel: middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11550.000	49.64	1.12	50.76	54.00	-3.24	peak
2	17325.000	42.28	8.99	51.27	68.30	-17.03	peak



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7.8 Radiated Emissions which fall in the restricted bands

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.

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test mode: b: TX mode (Band 1)_Powered by Adapter_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

c: TX mode (Band 2A)_Powered by Adapter_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

d: TX mode (Band 2C)_Powered by Adapter_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

e: TX mode (Band 3)_Powered by Adapter_Keep the EUT in continuously



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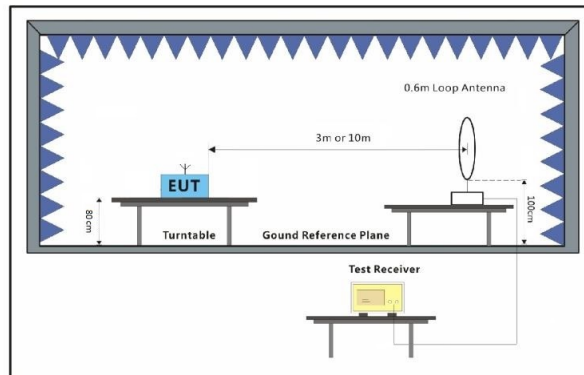
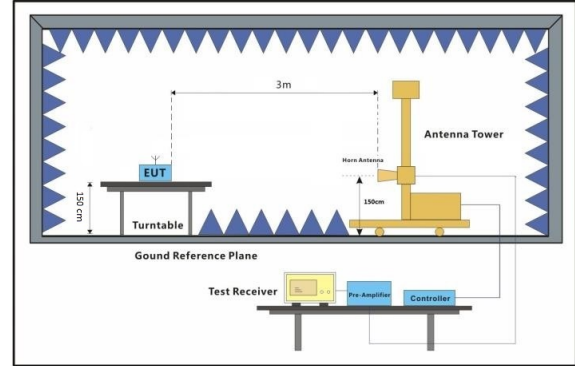
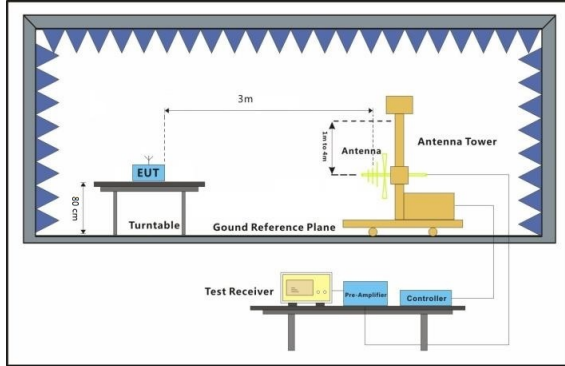
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transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.8.2 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 - Preamplifier Factor
- 2) This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for a modulation and MIMO antenna operation for n/ac modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.
- 3) The EUT has two power supply modes, DC 12V by AC adapter and DC 12V by PoE Adapter. We have tested both power supply modes, but only the worst test results are presented, powered by the AC Adapter.



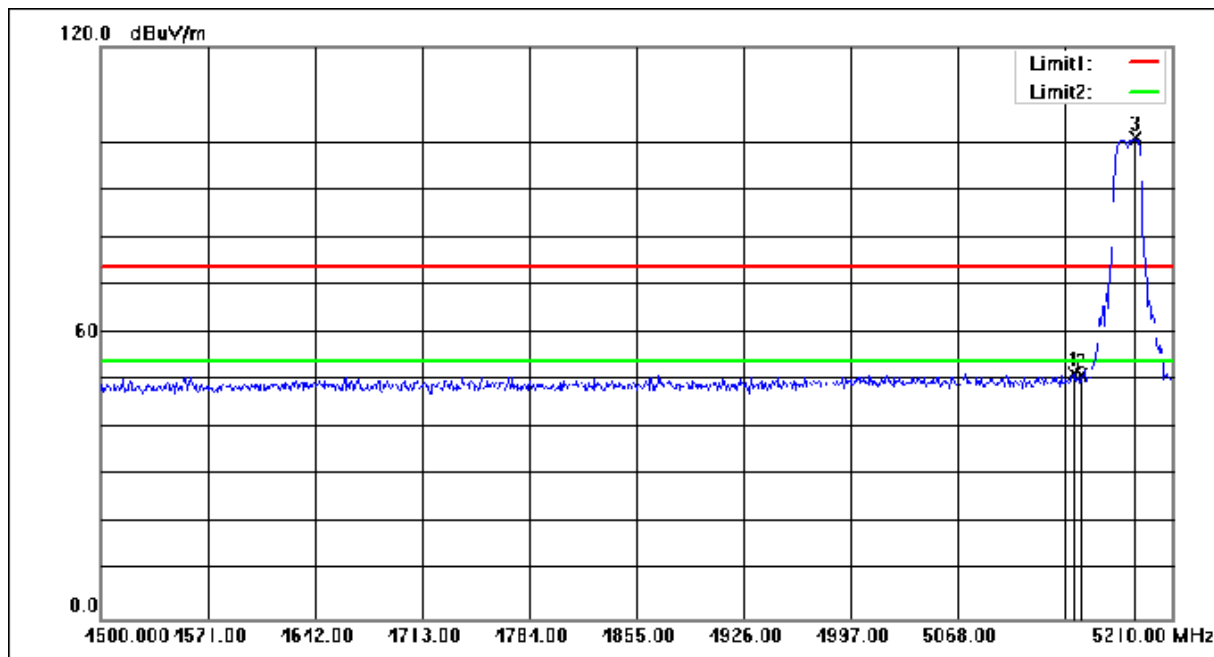
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Mode: b; Polarization: Horizontal; Modulation: a; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5144.680	59.28	-7.85	51.43	74.00	-22.57	peak
2	5150.000	58.93	-7.84	51.09	74.00	-22.91	peak
3	5185.860	108.70	-7.77	100.93	74.00	26.93	peak



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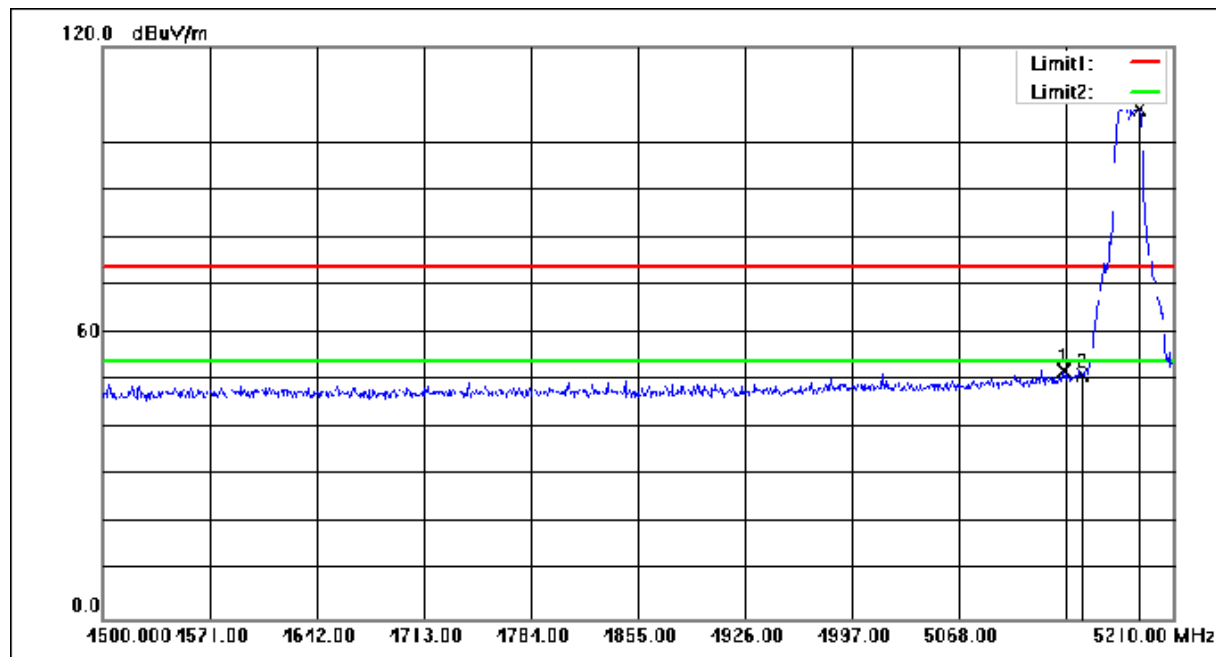
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Mode: b; Polarization: Vertical; Modulation: a; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5137.580	60.02	-7.87	52.15	74.00	-21.85	peak
2	5150.000	58.93	-7.84	51.09	74.00	-22.91	peak
3	5187.280	114.73	-7.76	106.97	74.00	32.97	peak



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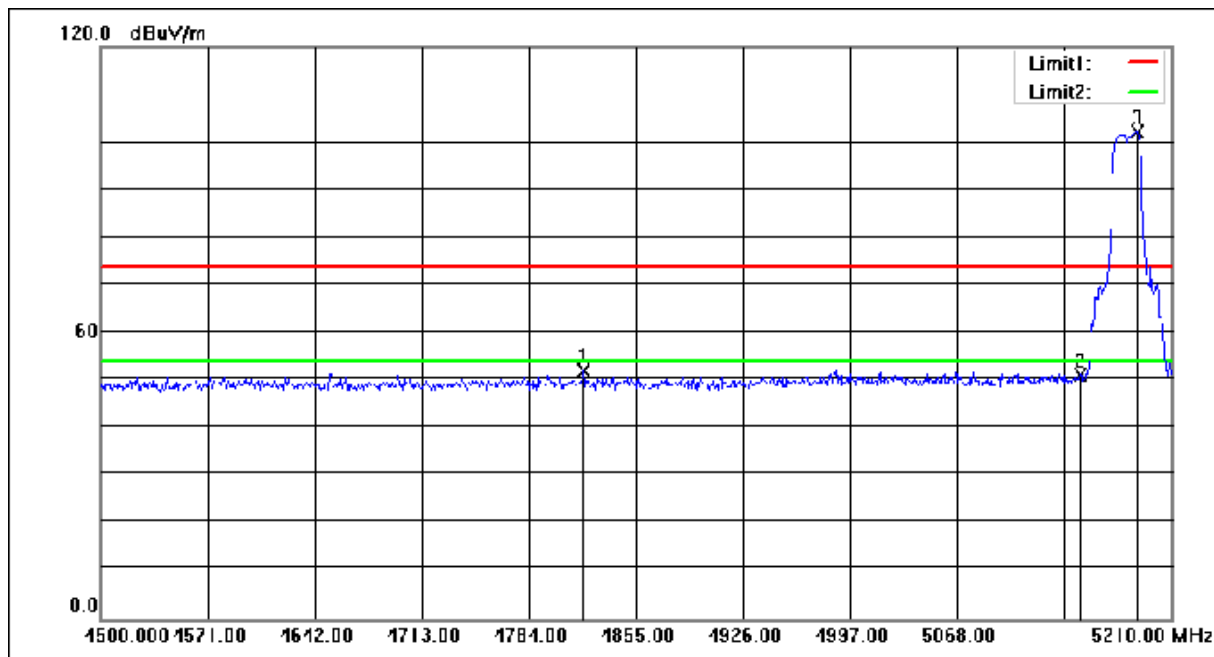
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Mode: b; Polarization: Horizontal; Modulation: n; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4820.210	60.94	-8.80	52.14	74.00	-21.86	peak
2	5150.000	59.11	-7.84	51.27	74.00	-22.73	peak
3	5187.280	109.89	-7.76	102.13	74.00	28.13	peak



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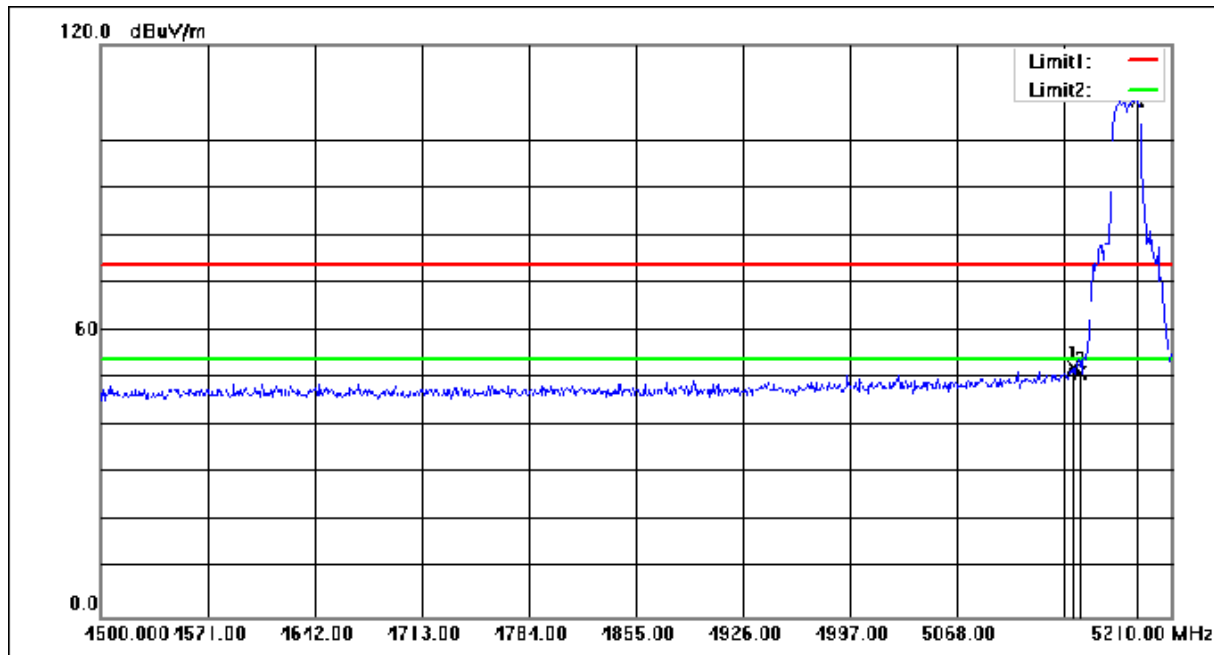
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Mode: b; Polarization: Vertical; Modulation: n; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5144.680	60.17	-7.85	52.32	74.00	-21.68	peak
2	5150.000	59.08	-7.84	51.24	74.00	-22.76	peak
3	5187.280	116.16	-7.76	108.40	74.00	34.40	peak



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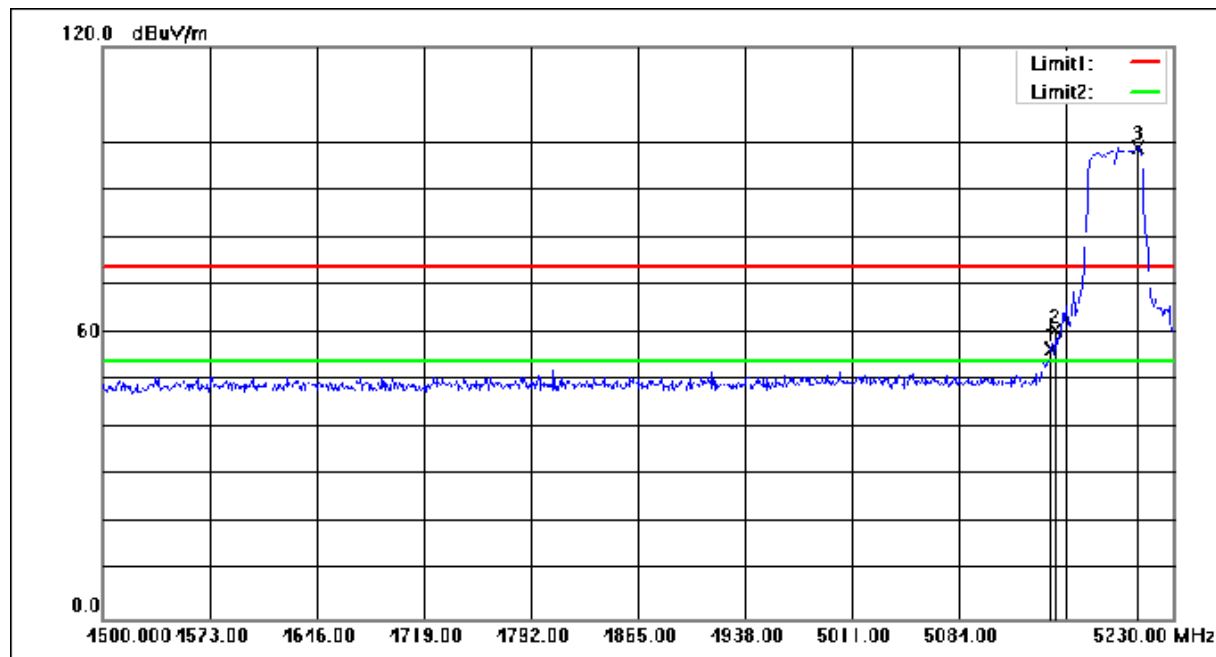
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Mode: b; Polarization: Horizontal; Modulation: n; bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.780	64.30	-7.85	56.45	74.00	-17.55	peak
2	5150.000	68.37	-7.84	60.53	74.00	-13.47	peak
3	5205.910	106.58	-7.71	98.87	74.00	24.87	peak

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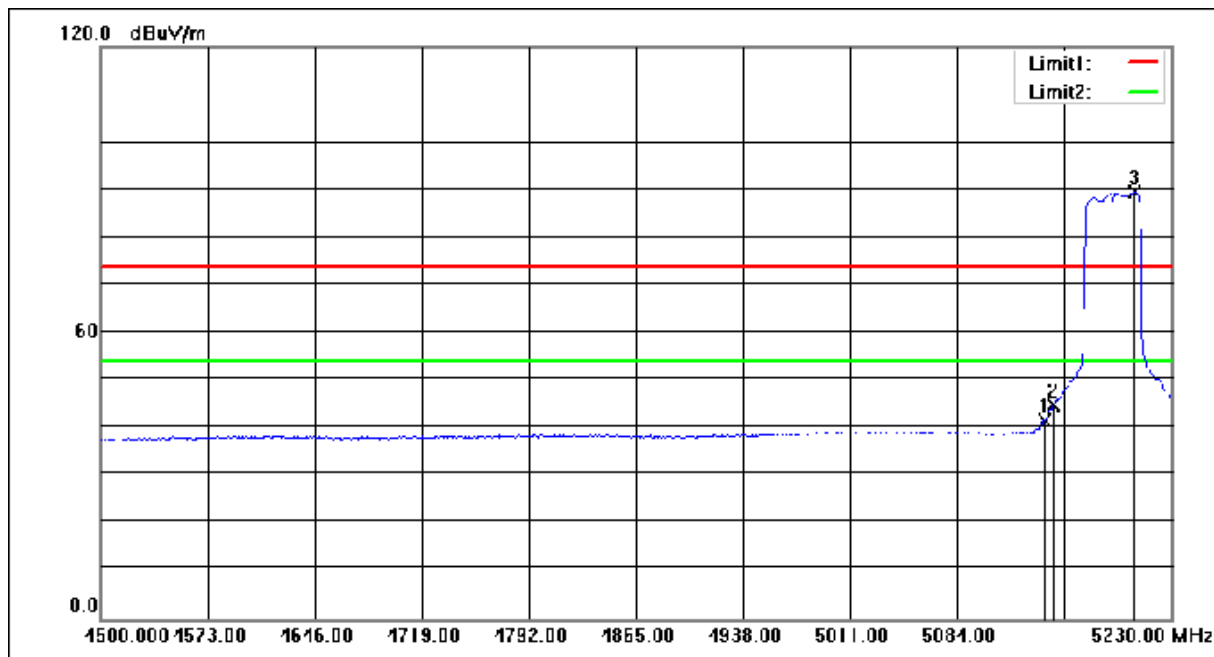
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Mode: b; Polarization: Horizontal; Modulation: n; bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5143.860	49.52	-7.86	41.66	54.00	-12.34	AVG
2	5150.000	52.83	-7.84	44.99	54.00	-9.01	AVG
3	5205.180	97.34	-7.71	89.63	54.00	35.63	AVG



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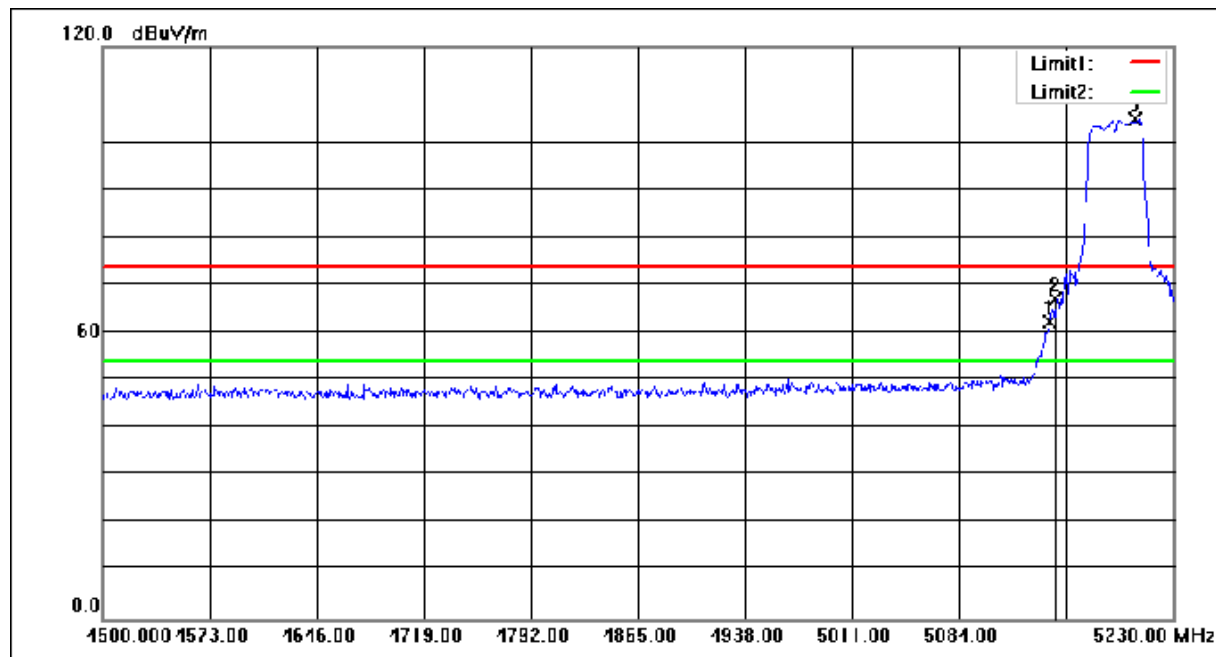
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Mode: b; Polarization: Vertical; Modulation: n; bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.050	70.12	-7.85	62.27	74.00	-11.73	peak
2	5150.000	74.78	-7.84	66.94	74.00	-7.06	peak
3	5204.450	112.51	-7.71	104.80	74.00	30.80	peak

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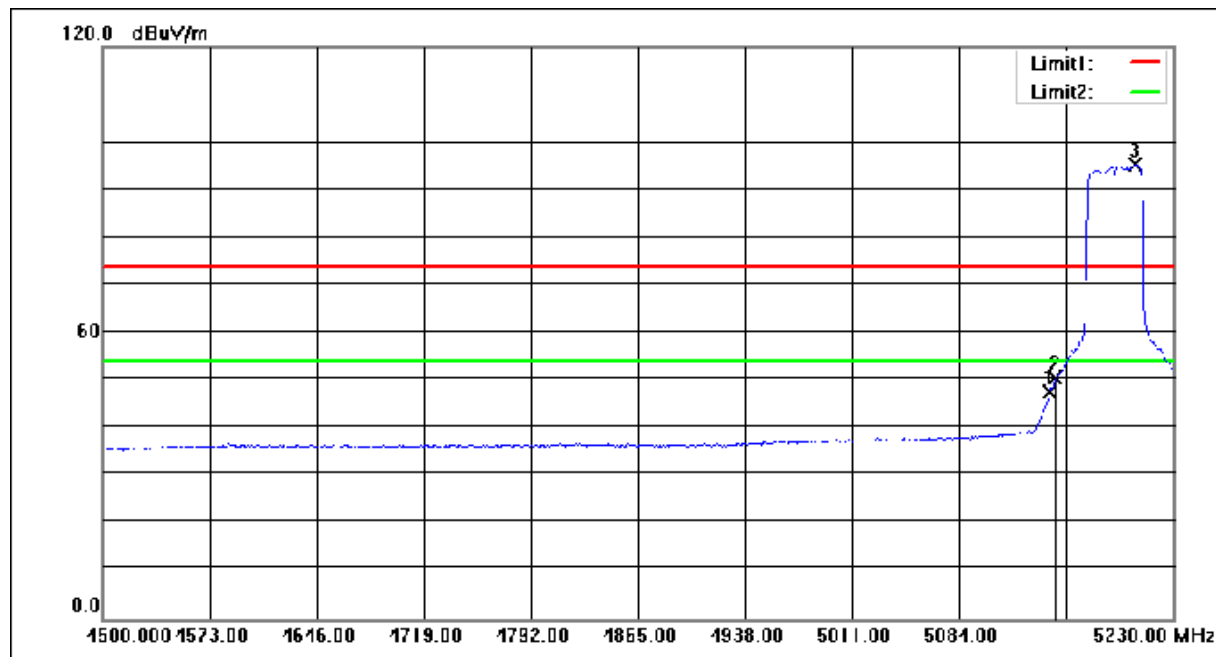
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Mode: b; Polarization: Vertical; Modulation: n; bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.050	55.50	-7.85	47.65	54.00	-6.35	AVG
2	5150.000	58.28	-7.84	50.44	54.00	-3.56	AVG
3	5204.450	103.09	-7.71	95.38	54.00	41.38	AVG

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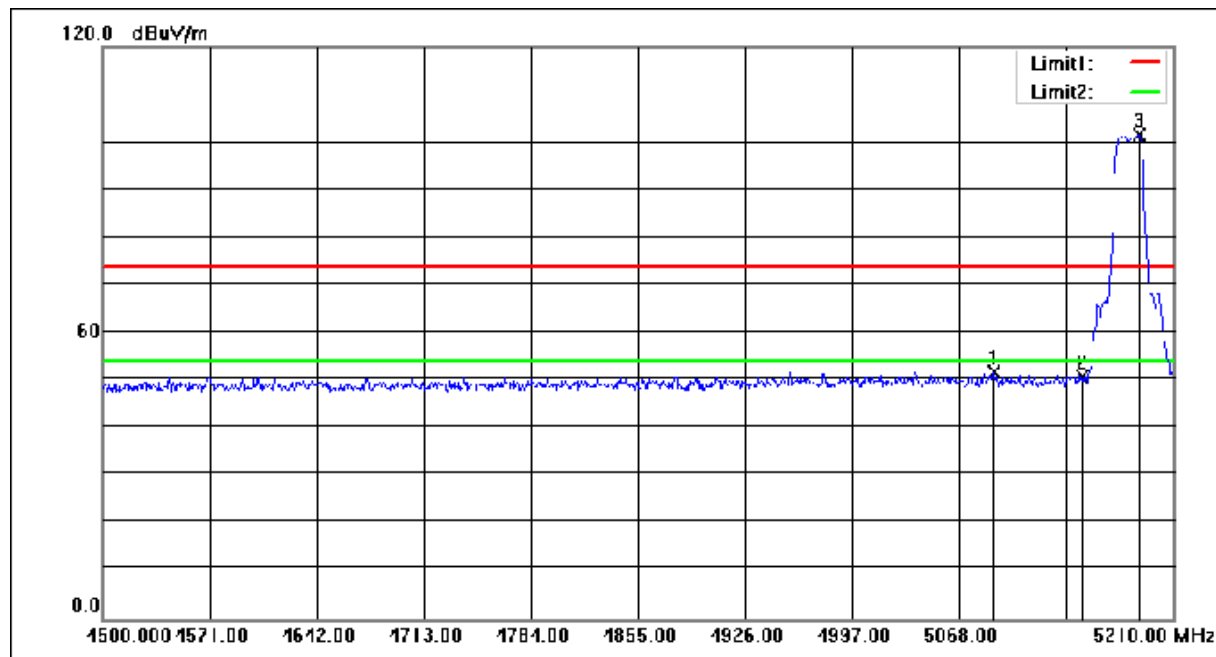
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Mode: b; Polarization: Horizontal; Modulation: c; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5091.430	59.74	-7.97	51.77	74.00	-22.23	peak
2	5150.000	58.65	-7.84	50.81	74.00	-23.19	peak
3	5187.280	109.44	-7.76	101.68	74.00	27.68	peak

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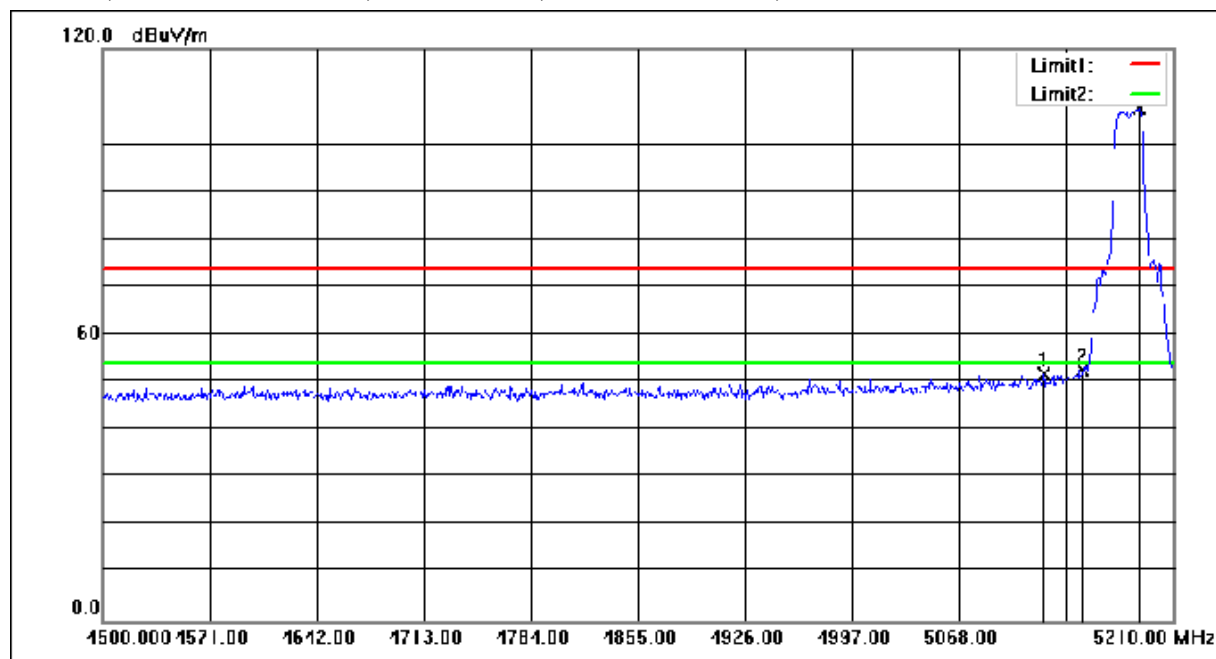
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Mode: b; Polarization: Vertical; Modulation: c; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5124.090	59.58	-7.90	51.68	74.00	-22.32	peak
2	5150.000	60.41	-7.84	52.57	74.00	-21.43	peak
3	5187.280	115.17	-7.76	107.41	74.00	33.41	peak

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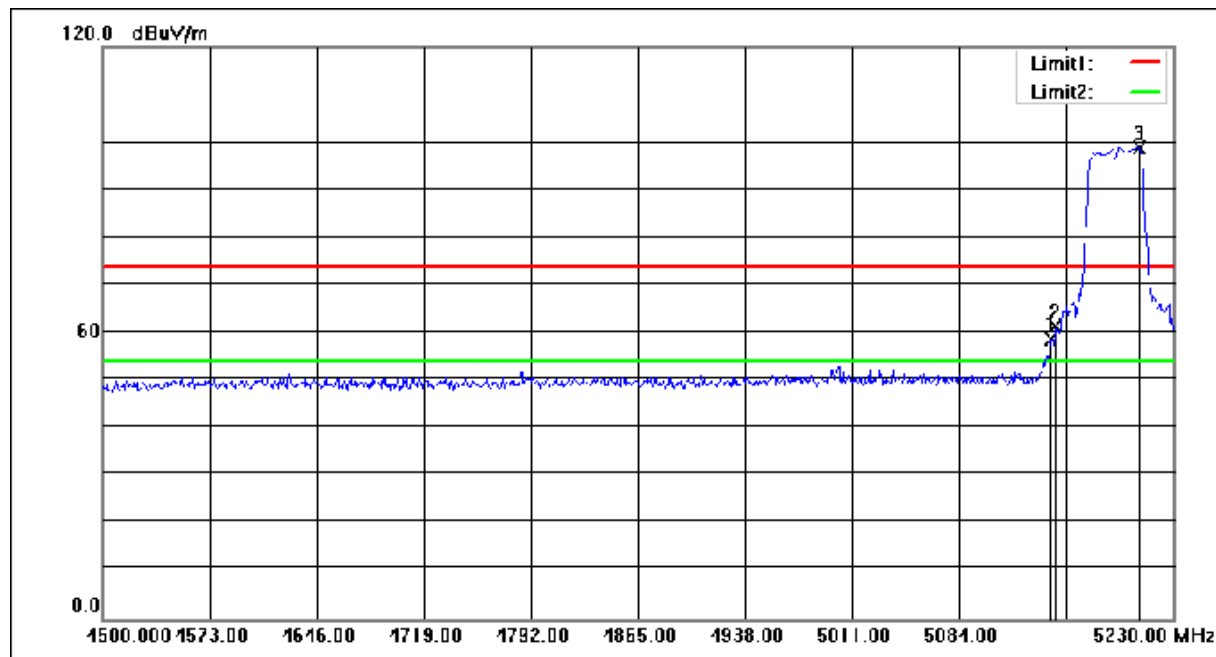
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Mode: b; Polarization: Horizontal; Modulation: c; bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.780	66.56	-7.85	58.71	74.00	-15.29	peak
2	5150.000	69.33	-7.84	61.49	74.00	-12.51	peak
3	5206.640	106.64	-7.70	98.94	74.00	24.94	peak



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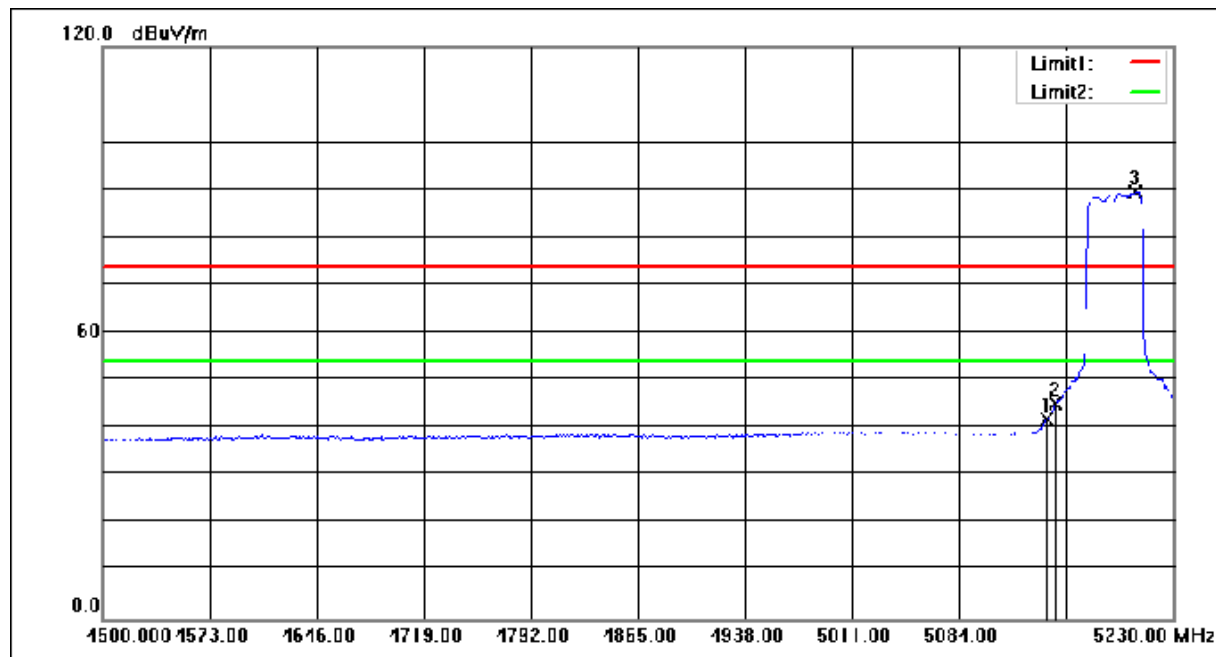
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Mode: b; Polarization: Horizontal; Modulation: c; bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5143.860	49.56	-7.86	41.70	54.00	-12.30	AVG
2	5150.000	52.90	-7.84	45.06	54.00	-8.94	AVG
3	5204.450	97.35	-7.71	89.64	54.00	35.64	AVG



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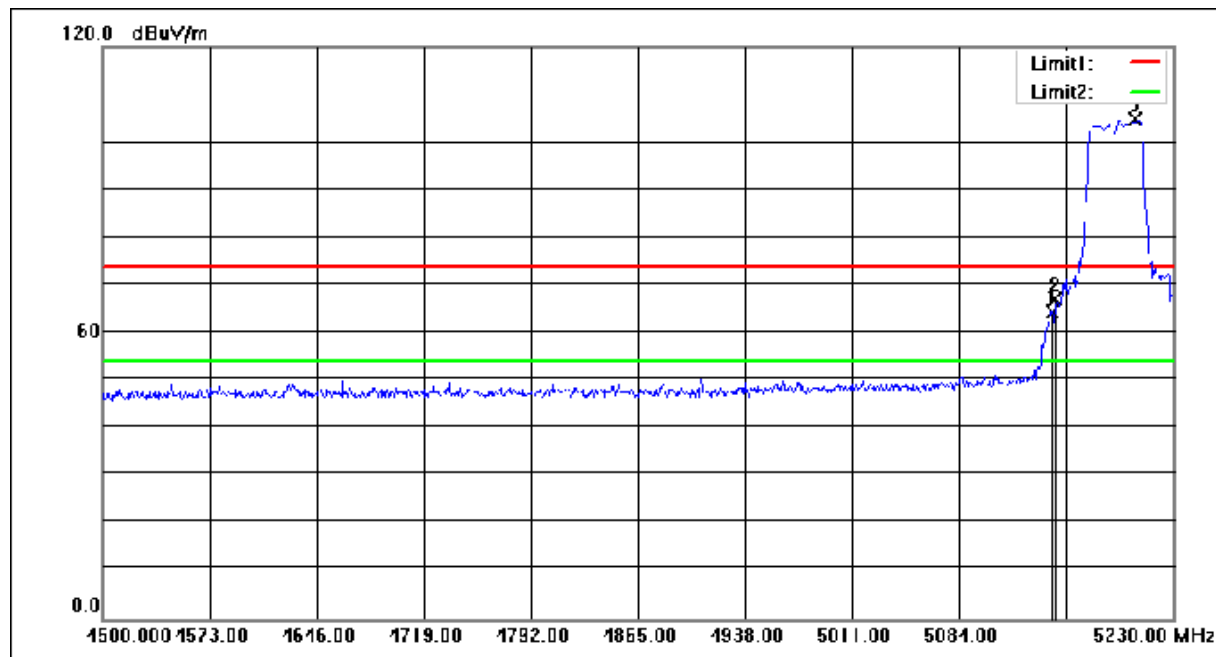
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Mode: b; Polarization: Vertical; Modulation: c; bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5147.510	72.31	-7.85	64.46	74.00	-9.54	peak
2	5150.000	74.81	-7.84	66.97	74.00	-7.03	peak
3	5204.450	112.45	-7.71	104.74	74.00	30.74	peak



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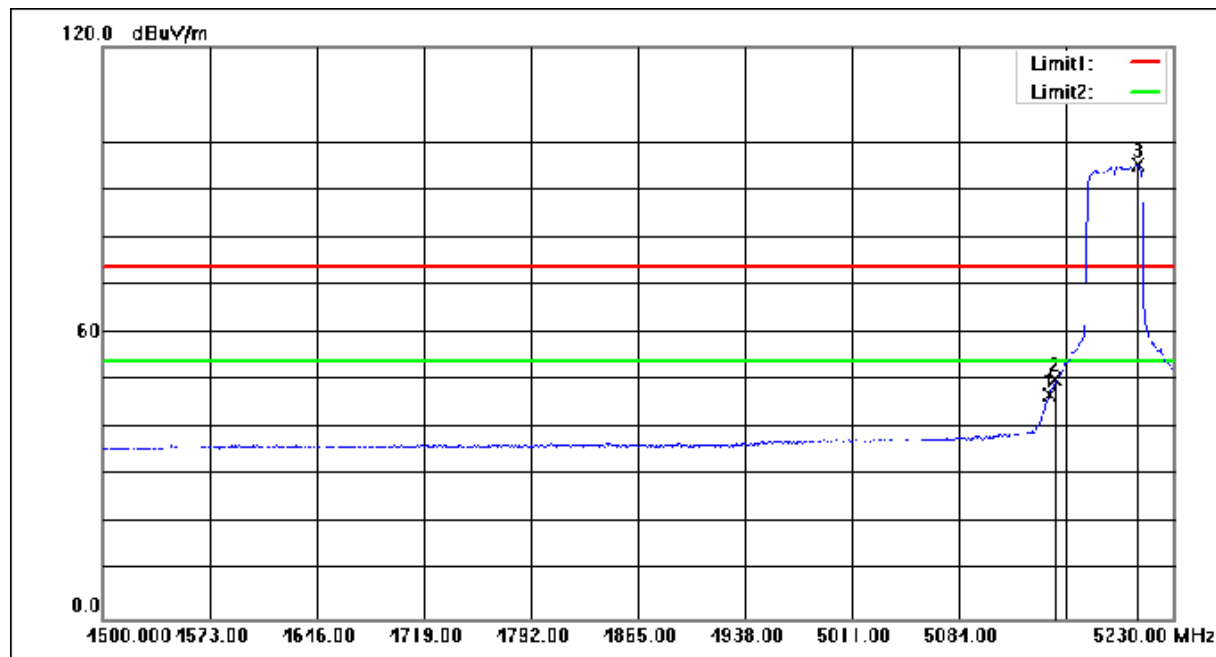
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Mode: b; Polarization: Vertical; Modulation: c; bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.050	54.94	-7.85	47.09	54.00	-6.91	AVG
2	5150.000	57.98	-7.84	50.14	54.00	-3.86	AVG
3	5205.910	103.00	-7.71	95.29	54.00	41.29	AVG



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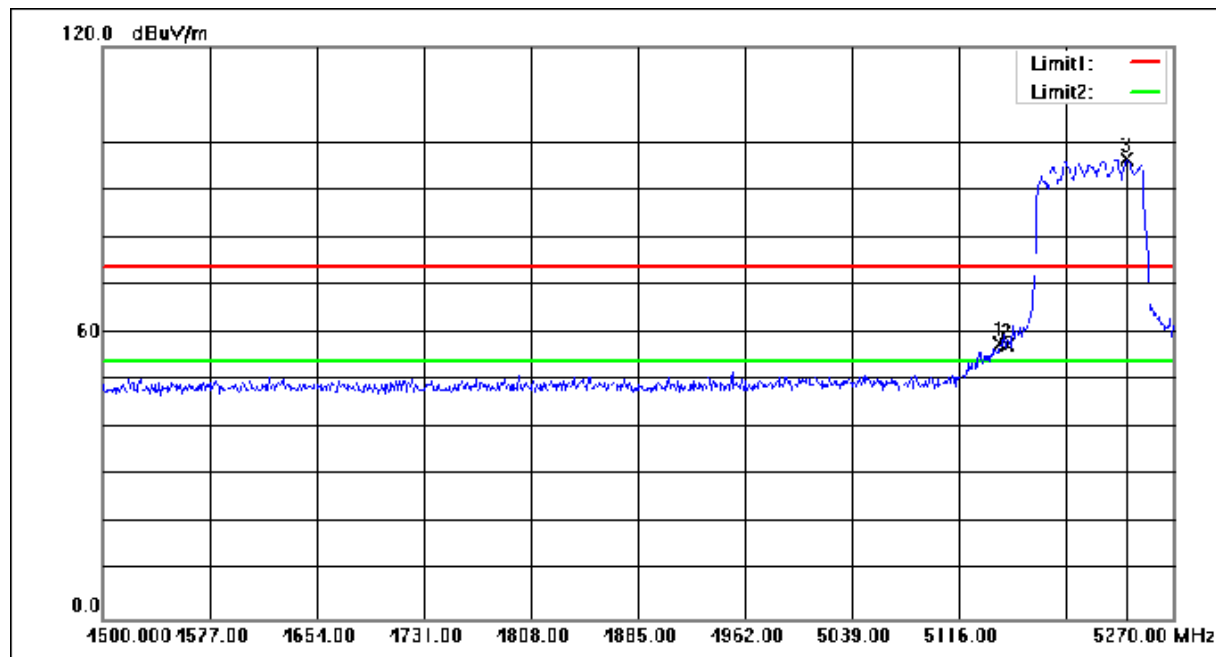
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Mode: b; Polarization: Horizontal; Modulation: c; bandwidth: 80MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5145.260	65.46	-7.85	57.61	74.00	-16.39	peak
2	5150.000	65.39	-7.84	57.55	74.00	-16.45	peak
3	5236.890	103.95	-7.59	96.36	74.00	22.36	peak

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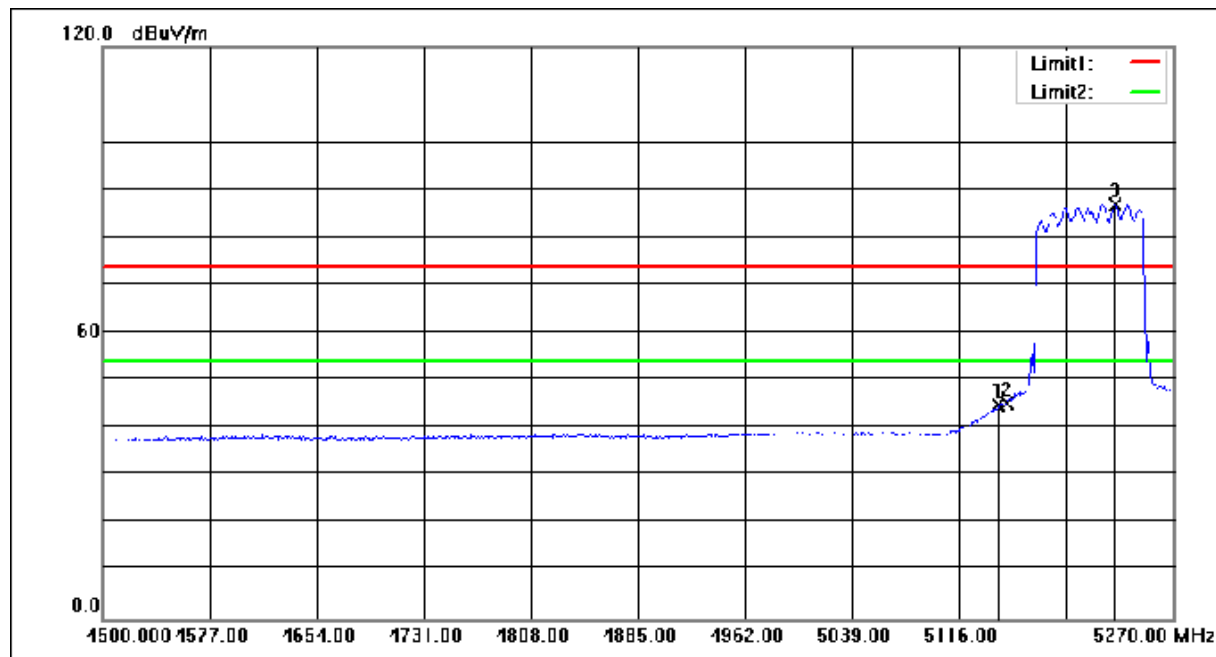
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Mode: b; Polarization: Horizontal; Modulation: c; bandwidth: 80MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5144.490	52.66	-7.85	44.81	54.00	-9.19	AVG
2	5150.000	53.08	-7.84	45.24	54.00	-8.76	AVG
3	5228.420	94.59	-7.61	86.98	54.00	32.98	AVG



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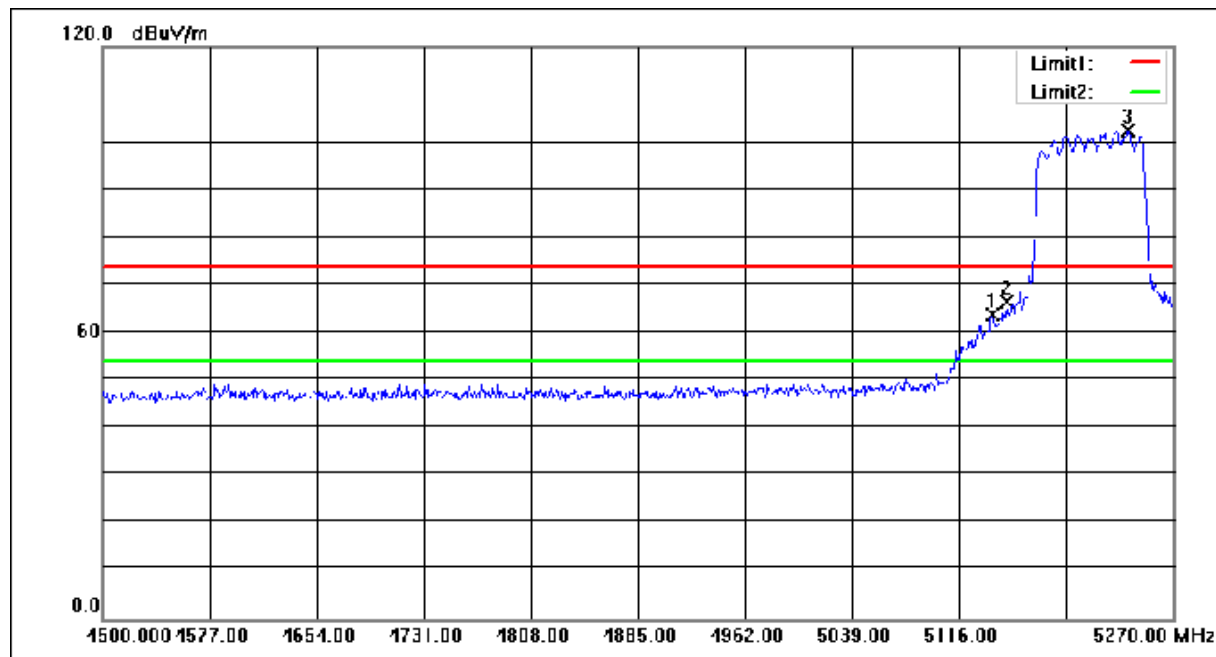
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Mode: b; Polarization: Vertical; Modulation: c; bandwidth: 80MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5139.870	71.57	-7.87	63.70	74.00	-10.30	peak
2	5150.000	74.26	-7.84	66.42	74.00	-7.58	peak
3	5237.660	109.97	-7.58	102.39	74.00	28.39	peak



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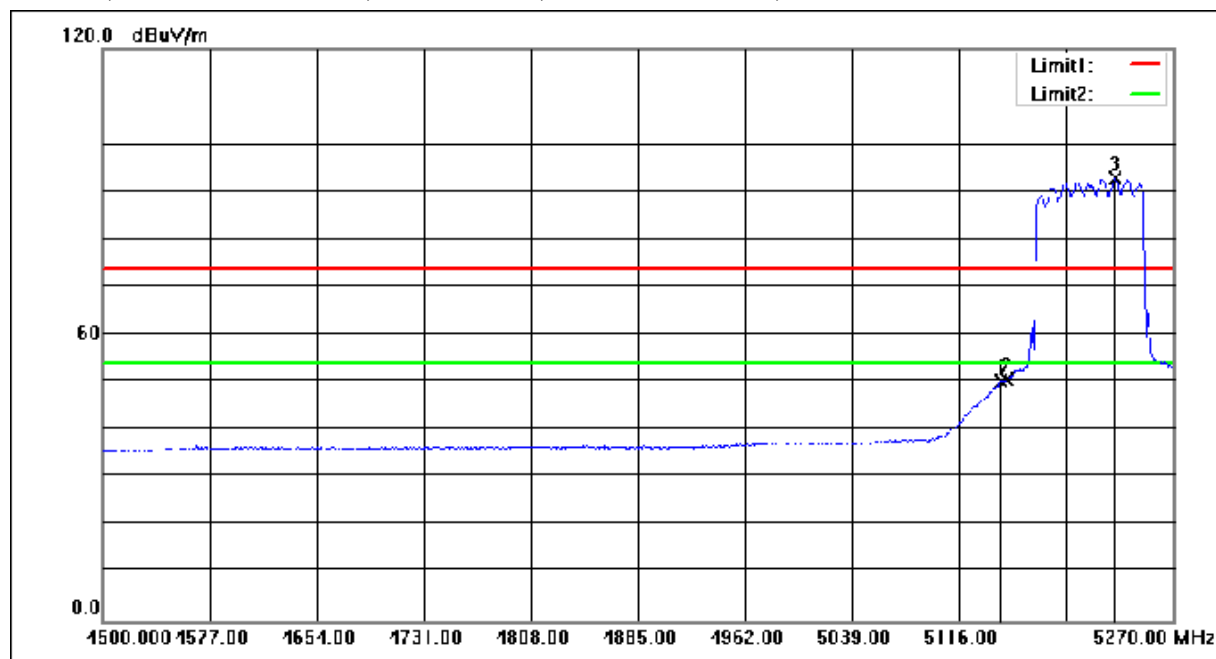
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Mode: b; Polarization: Vertical; Modulation: c; bandwidth: 80MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.030	57.97	-7.85	50.12	54.00	-3.88	AVG
2	5150.000	58.32	-7.84	50.48	54.00	-3.52	AVG
3	5228.420	100.36	-7.61	92.75	54.00	38.75	AVG



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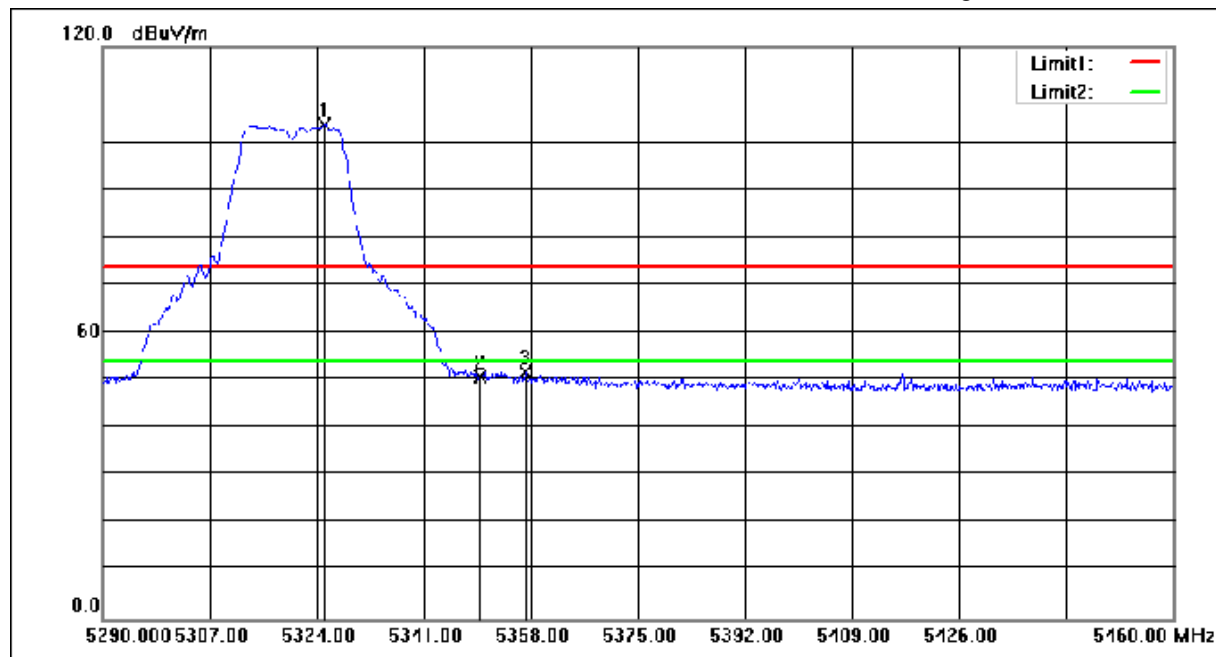
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Mode: c; Polarization: Horizontal; Modulation: a; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5325.190	110.82	-7.24	103.58	74.00	29.58	peak
2	5350.000	58.07	-7.15	50.92	74.00	-23.08	peak
3	5357.150	58.93	-7.12	51.81	74.00	-22.19	peak



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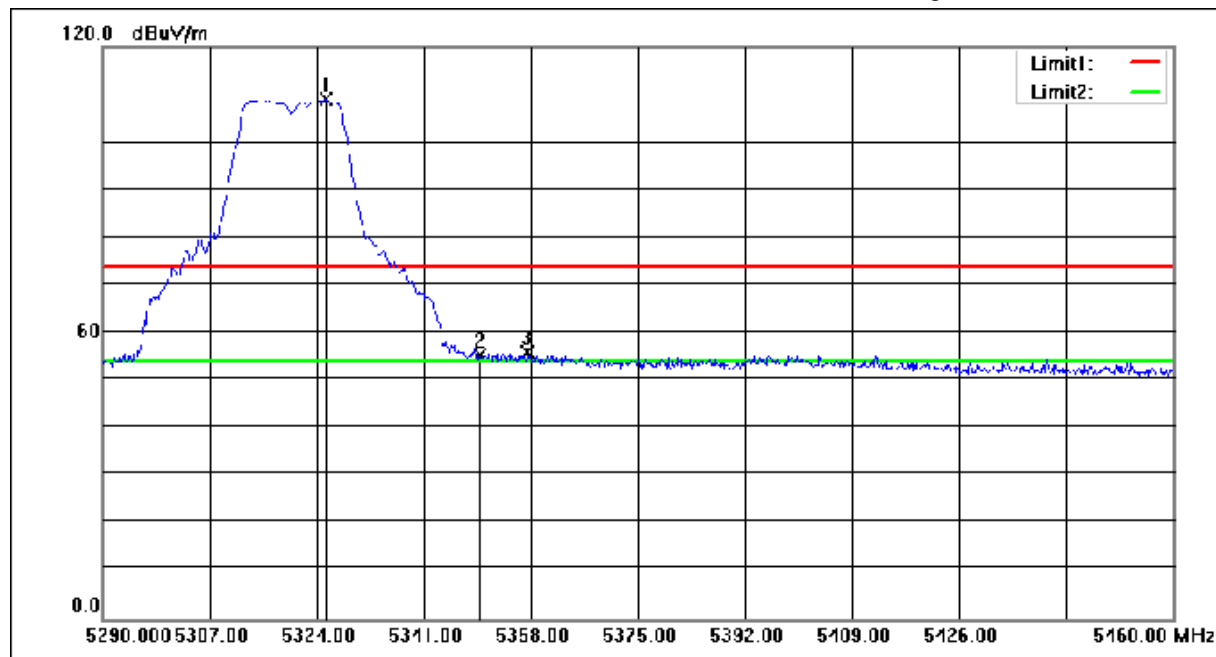
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Mode: c; Polarization: Vertical; Modulation: a; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5325.360	116.25	-7.24	109.01	74.00	35.01	peak
2	5350.000	62.55	-7.15	55.40	74.00	-18.60	peak
3	5357.490	63.01	-7.12	55.89	74.00	-18.11	peak

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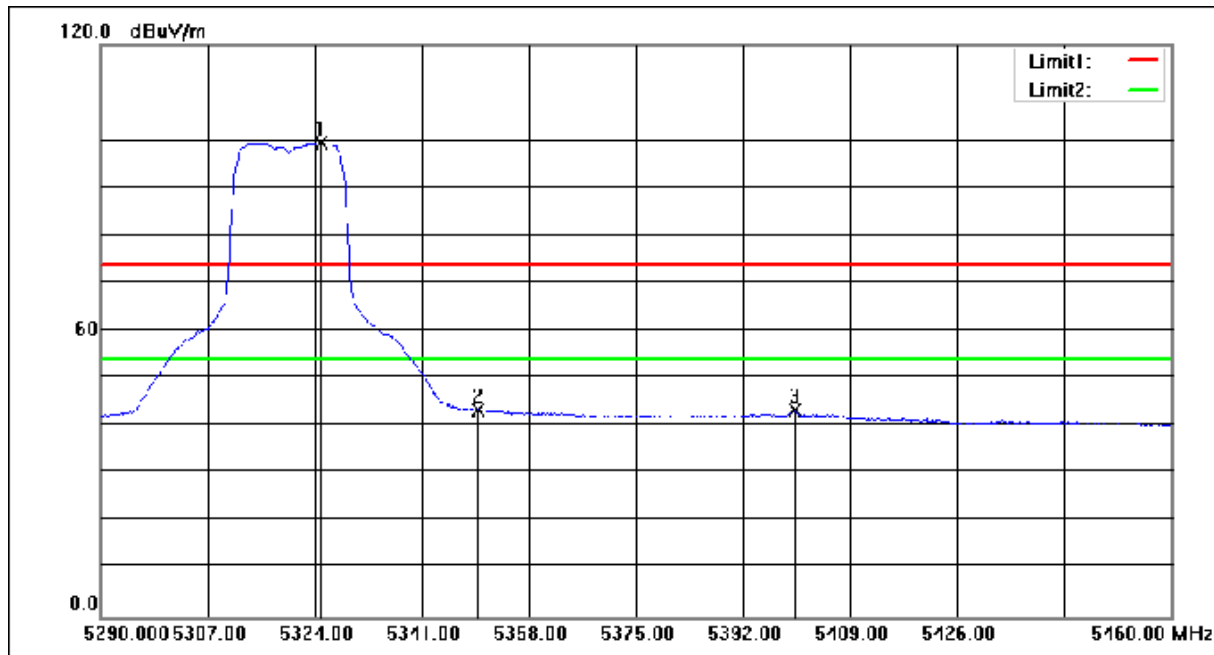
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Mode: c; Polarization: Vertical; Modulation: a; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5325.020	106.75	-7.24	99.51	54.00	45.51	AVG
2	5350.000	50.60	-7.15	43.45	54.00	-10.55	AVG
3	5400.160	50.39	-6.95	43.44	54.00	-10.56	AVG

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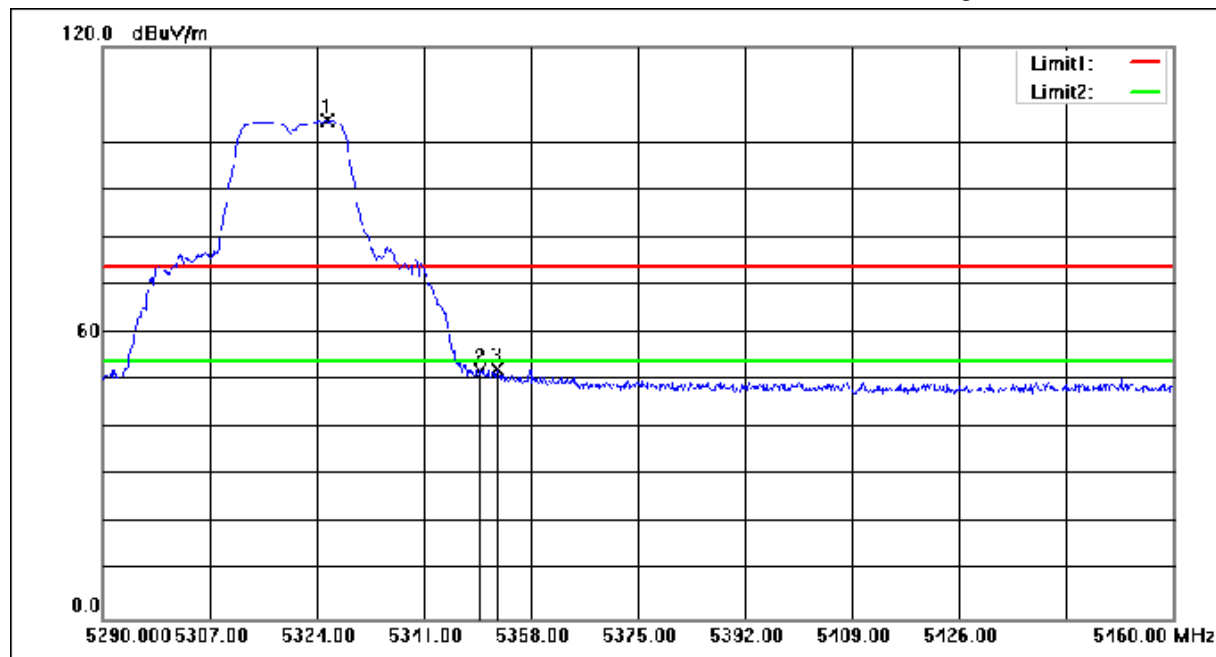
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Mode: c; Polarization: Horizontal; Modulation: n; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5325.700	111.84	-7.24	104.60	74.00	30.60	peak
2	5350.000	59.11	-7.15	51.96	74.00	-22.04	peak
3	5352.560	59.63	-7.14	52.49	74.00	-21.51	peak

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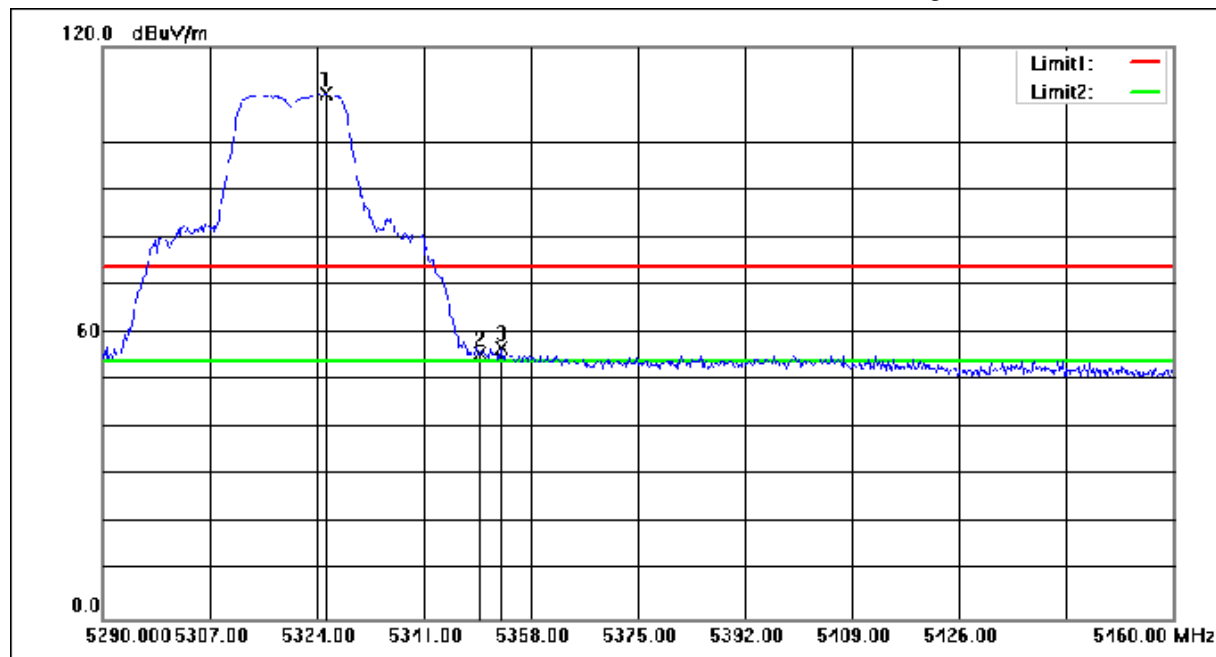
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Mode: c; Polarization: Vertical; Modulation: n; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5325.360	117.44	-7.24	110.20	74.00	36.20	peak
2	5350.000	62.67	-7.15	55.52	74.00	-18.48	peak
3	5353.240	64.08	-7.13	56.95	74.00	-17.05	peak



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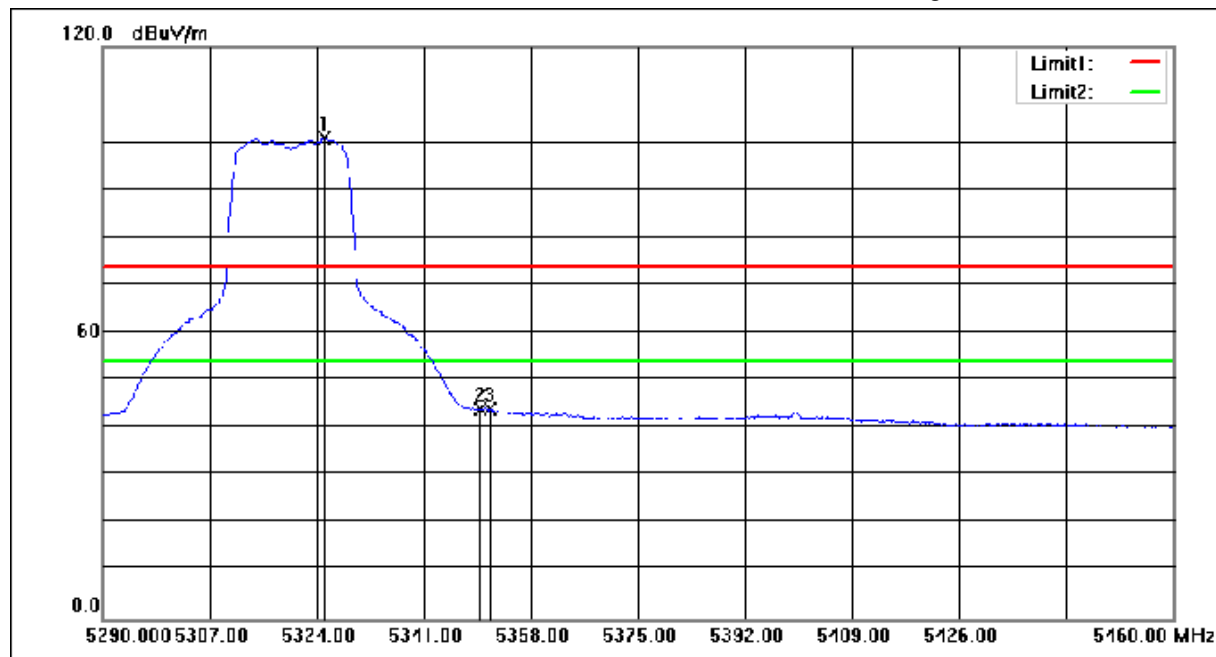
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Mode: c; Polarization: Vertical; Modulation: n; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5325.190	108.11	-7.24	100.87	54.00	46.87	AVG
2	5350.000	51.03	-7.15	43.88	54.00	-10.12	AVG
3	5351.540	51.07	-7.14	43.93	54.00	-10.07	AVG



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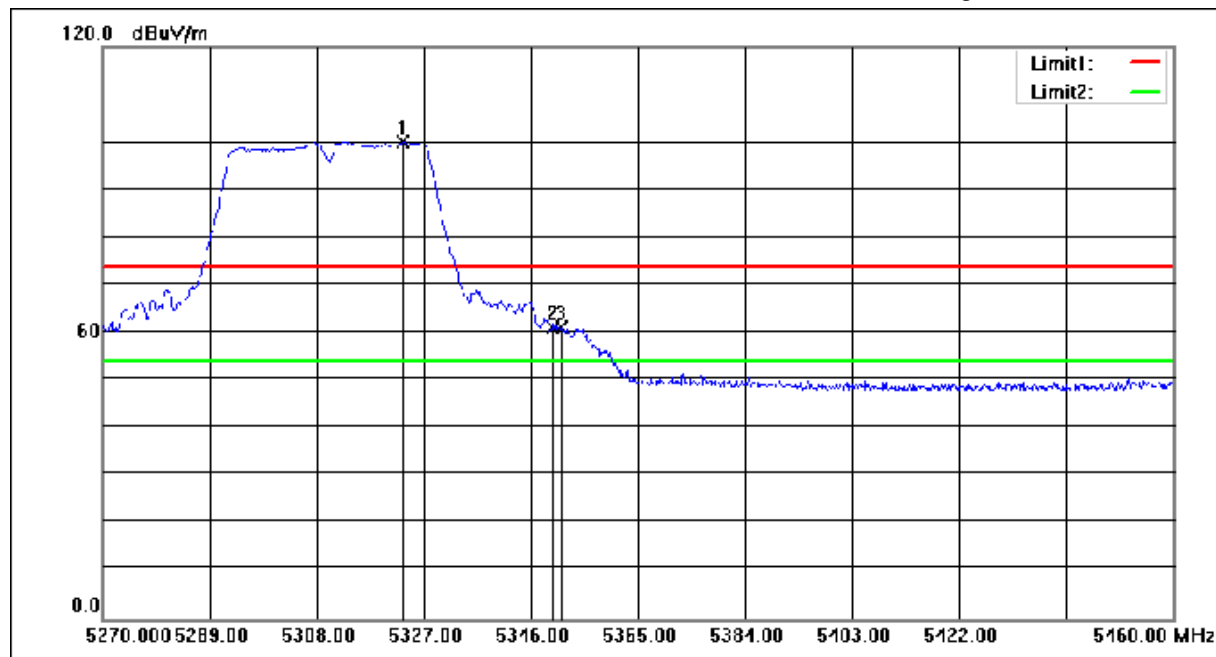
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Mode: c; Polarization: Horizontal; Modulation: n; bandwidth: 40MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5323.390	107.28	-7.25	100.03	74.00	26.03	peak
2	5350.000	68.24	-7.15	61.09	74.00	-12.91	peak
3	5351.320	68.28	-7.14	61.14	74.00	-12.86	peak

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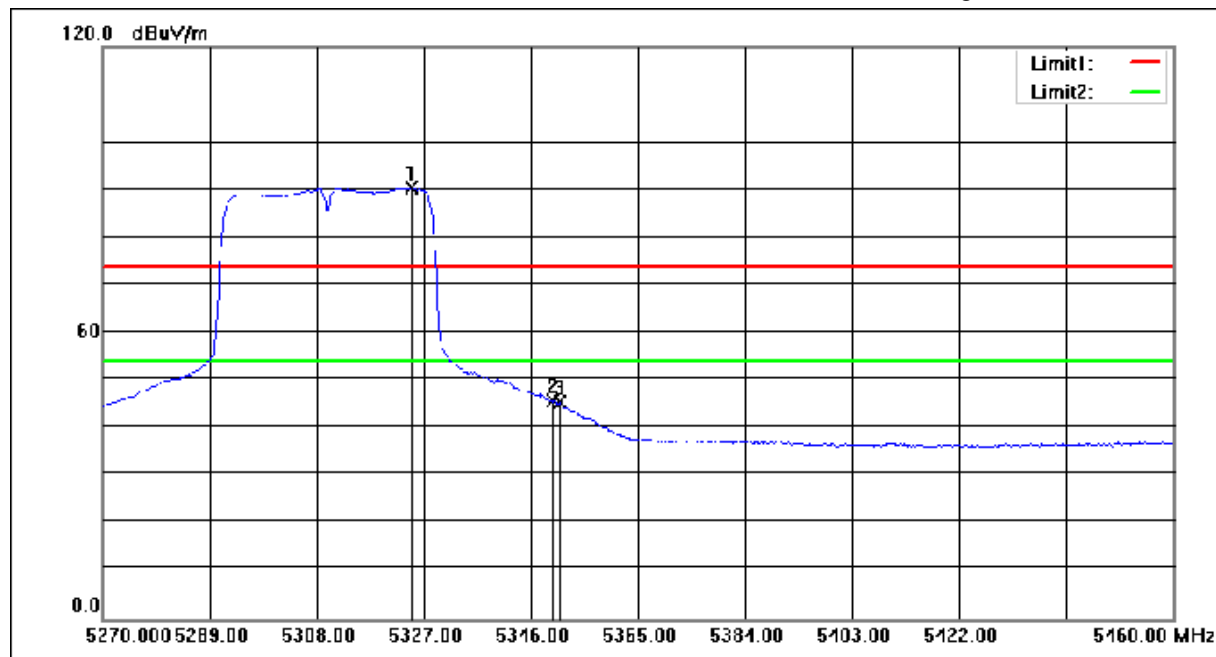
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Mode: c; Polarization: Horizontal; Modulation: n; bandwidth: 40MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5324.910	97.57	-7.24	90.33	54.00	36.33	AVG
2	5350.000	52.78	-7.15	45.63	54.00	-8.37	AVG
3	5351.130	52.49	-7.14	45.35	54.00	-8.65	AVG



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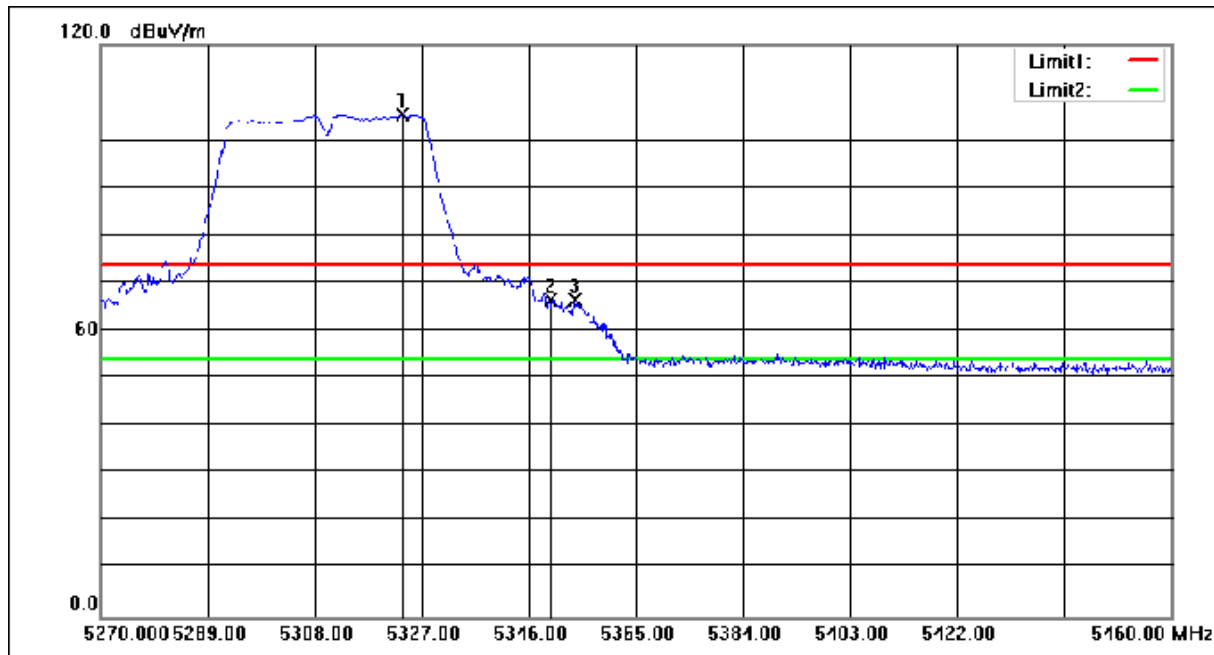
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Mode: c; Polarization: Vertical; Modulation: n; bandwidth: 40MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5323.580	112.56	-7.25	105.31	74.00	31.31	peak
2	5350.000	73.63	-7.15	66.48	74.00	-7.52	peak
3	5354.170	73.57	-7.13	66.44	74.00	-7.56	peak

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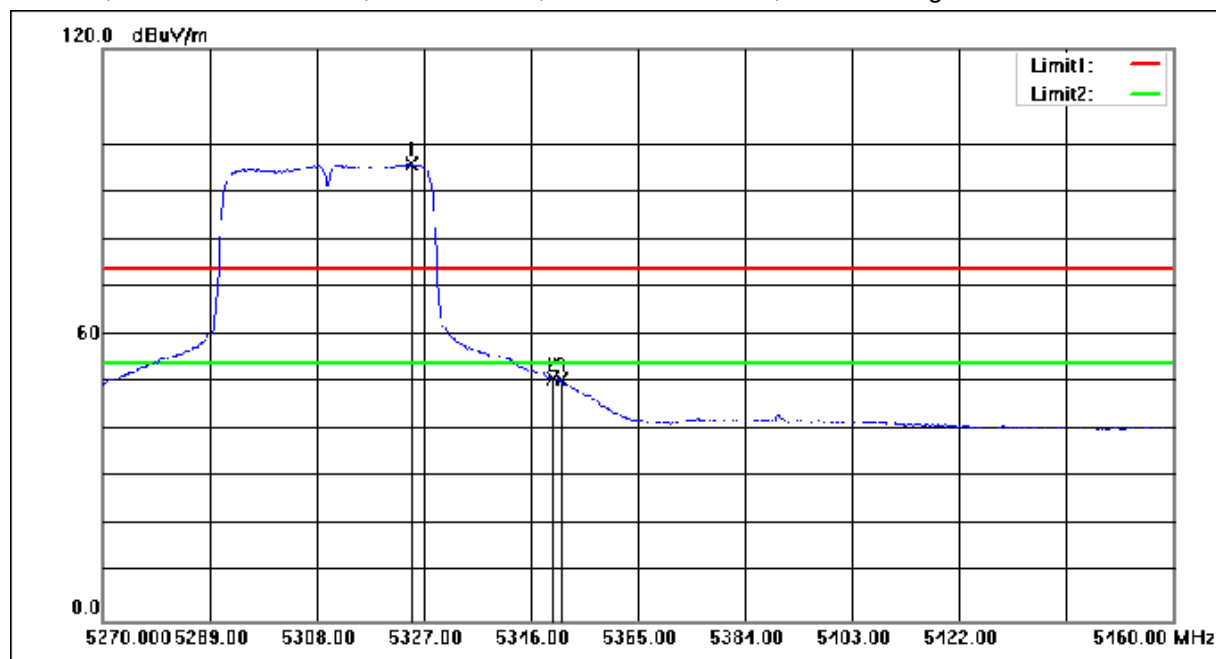
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Mode: c; Polarization: Vertical; Modulation: n; bandwidth: 40MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5324.910	103.02	-7.24	95.78	54.00	41.78	AVG
2	5350.000	57.87	-7.15	50.72	54.00	-3.28	AVG
3	5351.320	57.73	-7.14	50.59	54.00	-3.41	AVG



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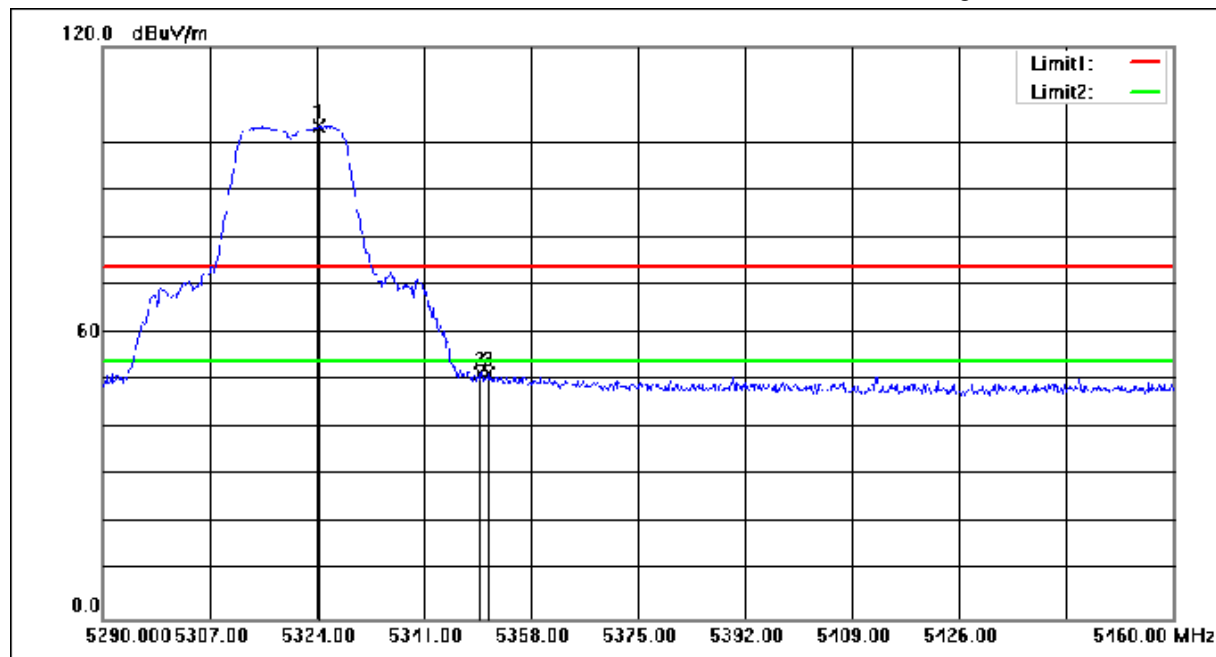
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Mode: c; Polarization: Horizontal; Modulation: c; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5324.340	110.53	-7.24	103.29	74.00	29.29	peak
2	5350.000	58.60	-7.15	51.45	74.00	-22.55	peak
3	5351.370	58.69	-7.14	51.55	74.00	-22.45	peak

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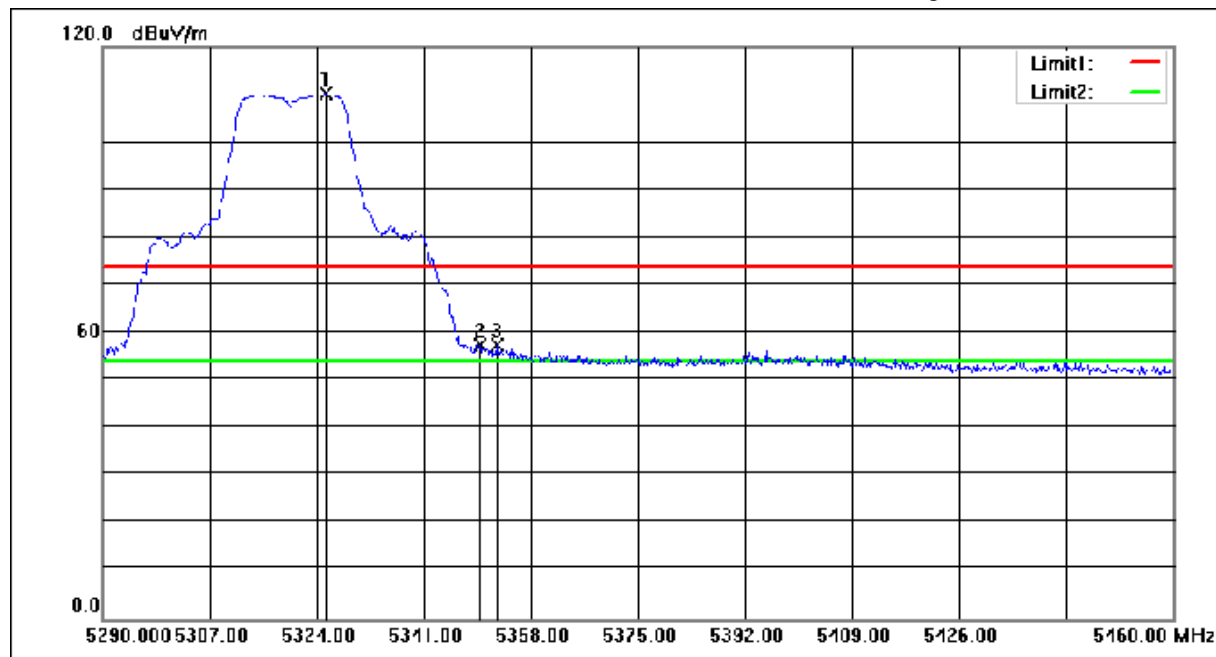
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Mode: c; Polarization: Vertical; Modulation: c; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5325.360	117.38	-7.24	110.14	74.00	36.14	peak
2	5350.000	64.50	-7.15	57.35	74.00	-16.65	peak
3	5352.560	64.68	-7.14	57.54	74.00	-16.46	peak



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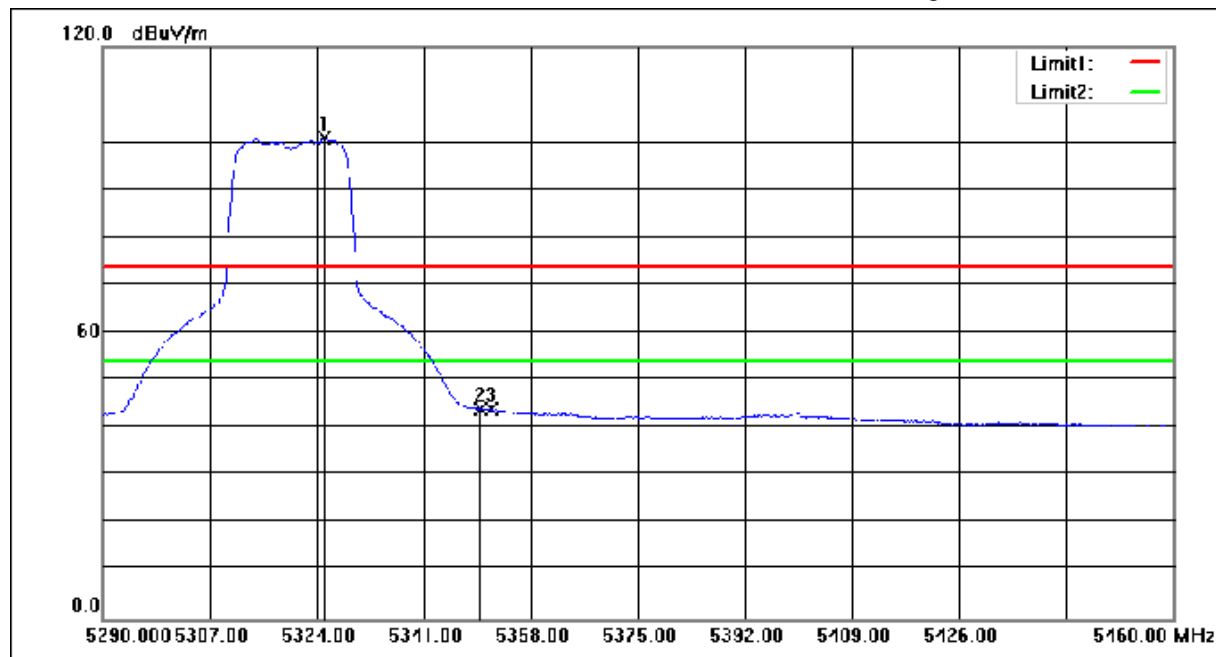
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Mode: c; Polarization: Vertical; Modulation: c; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5325.190	108.06	-7.24	100.82	54.00	46.82	AVG
2	5350.000	51.11	-7.15	43.96	54.00	-10.04	AVG
3	5351.710	51.03	-7.14	43.89	54.00	-10.11	AVG



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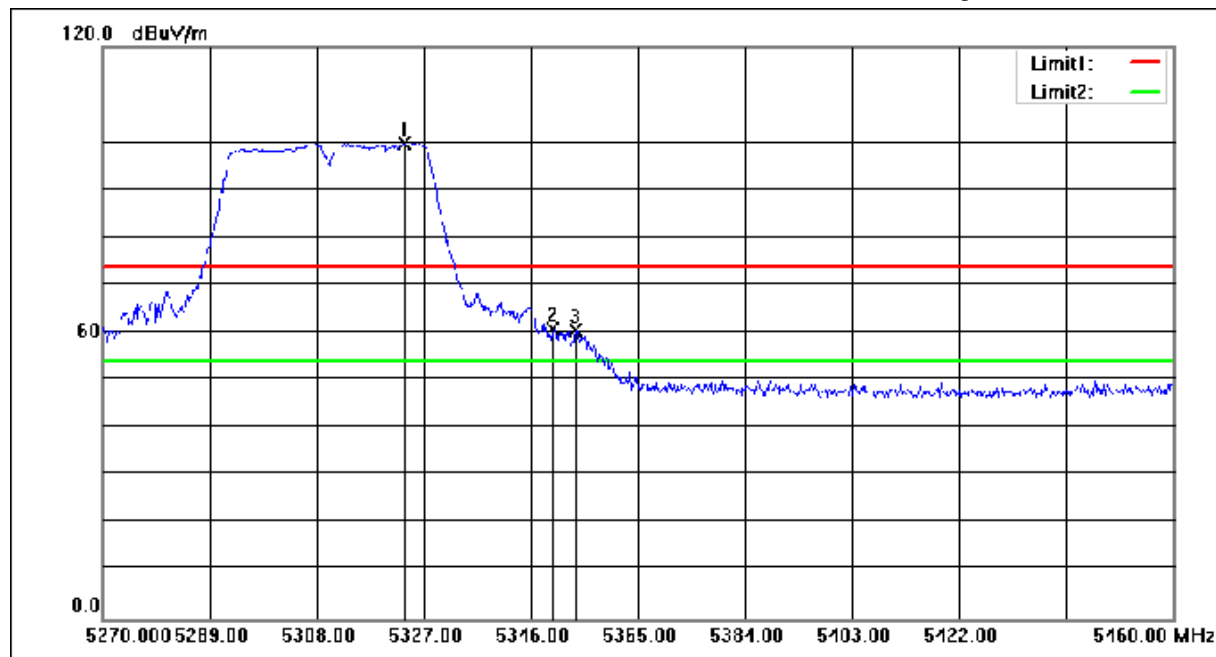
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Mode: c; Polarization: Horizontal; Modulation: c; bandwidth: 40MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5323.580	107.14	-7.25	99.89	74.00	25.89	peak
2	5350.000	68.03	-7.15	60.88	74.00	-13.12	peak
3	5353.980	67.70	-7.13	60.57	74.00	-13.43	peak



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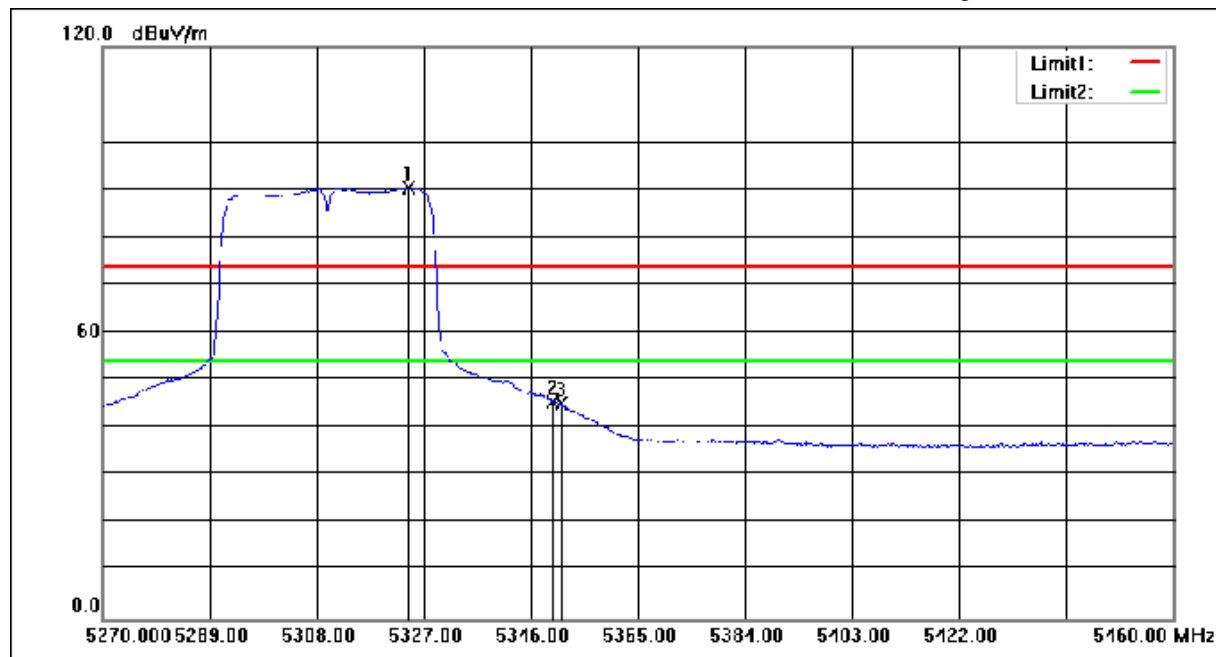
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Mode: c; Polarization: Horizontal; Modulation: c; bandwidth: 40MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5324.340	97.58	-7.24	90.34	54.00	36.34	AVG
2	5350.000	52.58	-7.15	45.43	54.00	-8.57	AVG
3	5351.320	52.17	-7.14	45.03	54.00	-8.97	AVG



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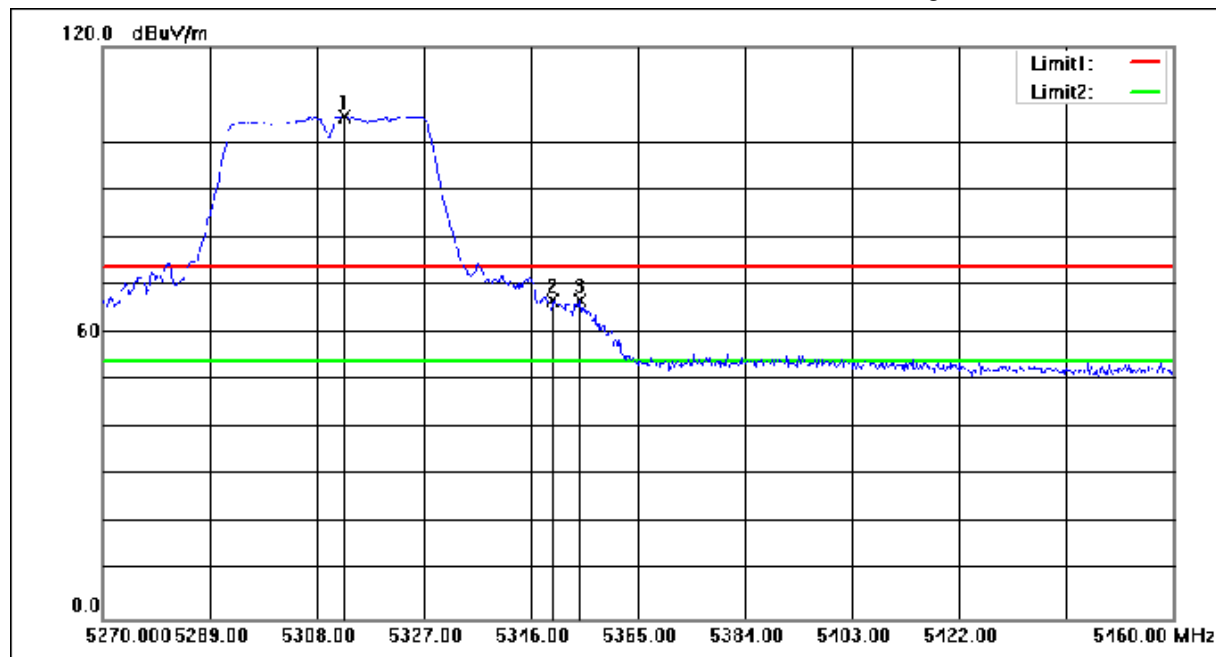
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Mode: c; Polarization: Vertical; Modulation: c; bandwidth: 40MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5312.940	112.75	-7.29	105.46	74.00	31.46	peak
2	5350.000	73.96	-7.15	66.81	74.00	-7.19	peak
3	5354.740	73.73	-7.12	66.61	74.00	-7.39	peak



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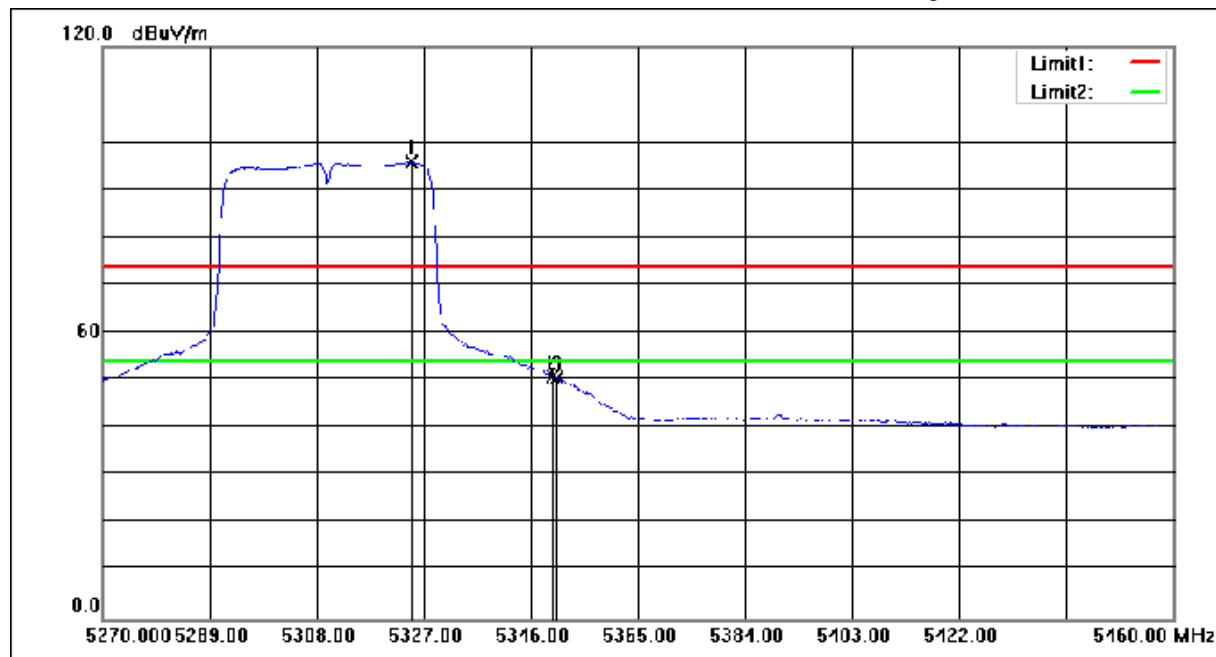
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Mode: c; Polarization: Vertical; Modulation: c; bandwidth: 40MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5324.910	103.06	-7.24	95.82	54.00	41.82	AVG
2	5350.000	58.04	-7.15	50.89	54.00	-3.11	AVG
3	5350.750	57.71	-7.14	50.57	54.00	-3.43	AVG

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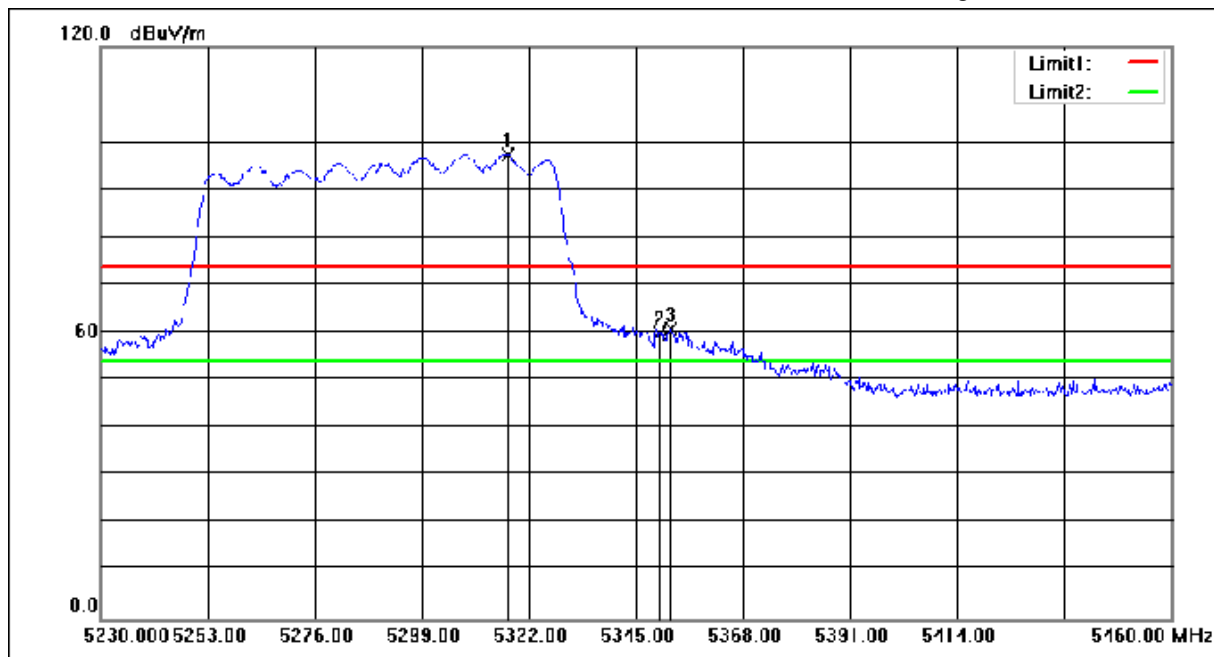
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Mode: c; Polarization: Horizontal; Modulation: c; bandwidth: 80MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5317.400	104.74	-7.27	97.47	74.00	23.47	peak
2	5350.000	67.08	-7.15	59.93	74.00	-14.07	peak
3	5352.590	67.84	-7.14	60.70	74.00	-13.30	peak

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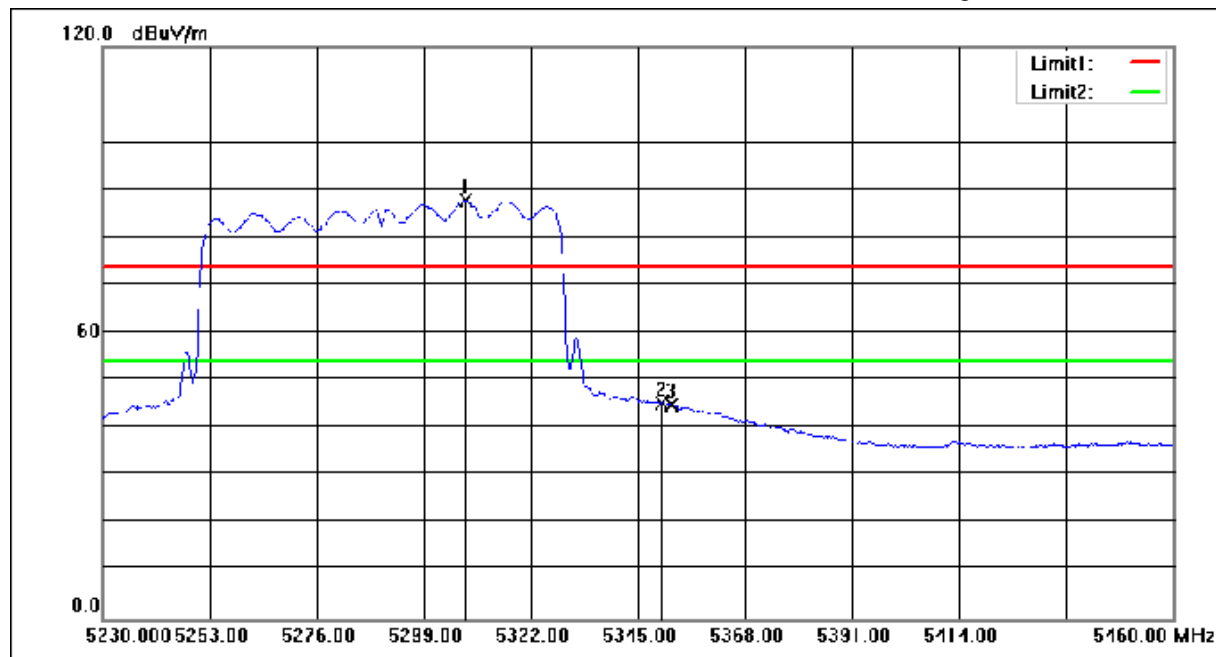
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Mode: c; Polarization: Horizontal; Modulation: c; bandwidth: 80MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5307.970	94.98	-7.31	87.67	54.00	33.67	AVG
2	5350.000	52.41	-7.15	45.26	54.00	-8.74	AVG
3	5352.130	52.11	-7.14	44.97	54.00	-9.03	AVG

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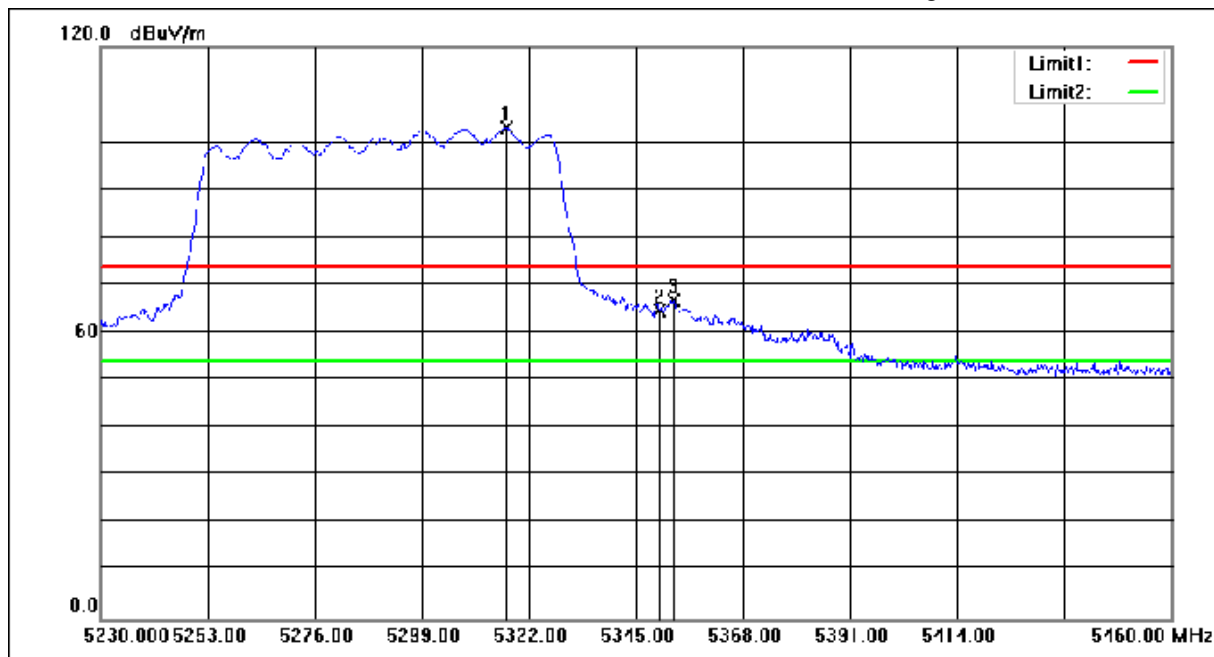
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Mode: c; Polarization: Vertical; Modulation: c; bandwidth: 80MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5317.170	110.22	-7.27	102.95	74.00	28.95	peak
2	5350.000	71.80	-7.15	64.65	74.00	-9.35	peak
3	5353.050	73.84	-7.14	66.70	74.00	-7.30	peak



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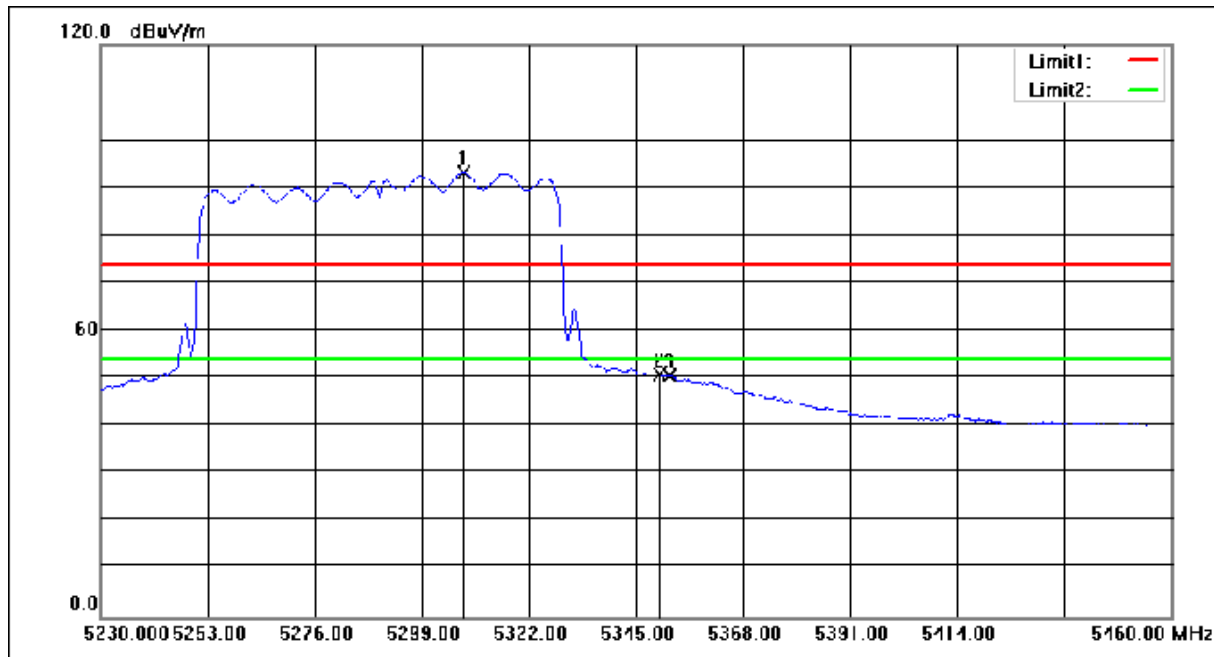
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Mode: c; Polarization: Vertical; Modulation: c; bandwidth: 80MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5307.970	100.52	-7.31	93.21	54.00	39.21	AVG
2	5350.000	57.93	-7.15	50.78	54.00	-3.22	AVG
3	5352.130	57.60	-7.14	50.46	54.00	-3.54	AVG

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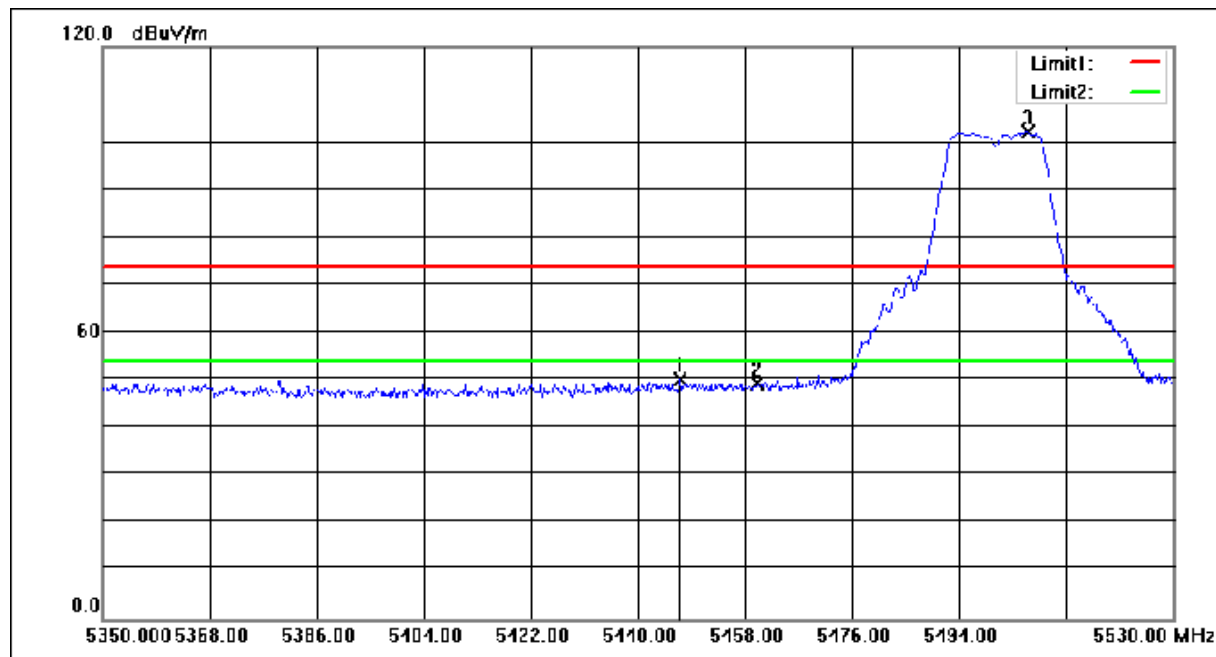
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Mode: d; Polarization: Horizontal; Modulation: a; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5447.020	57.12	-6.96	50.16	74.00	-23.84	peak
2	5460.000	56.34	-6.95	49.39	74.00	-24.61	peak
3	5505.520	109.21	-6.96	102.25	74.00	28.25	peak



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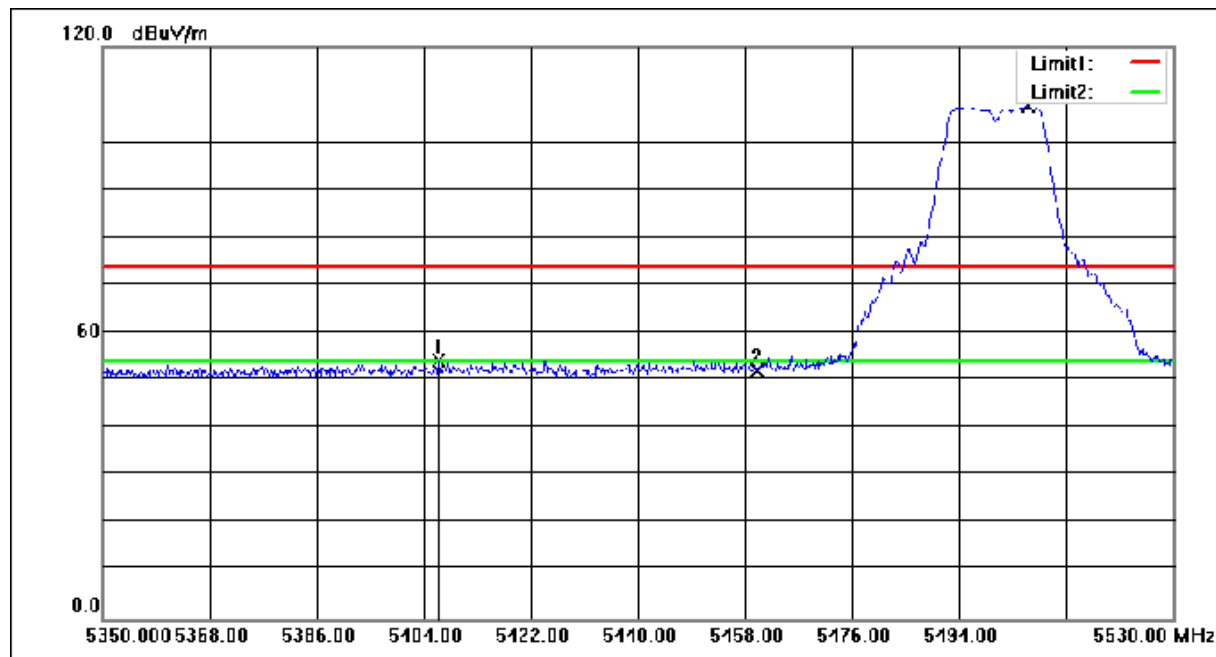
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Mode: d; Polarization: Vertical; Modulation: a; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5406.520	61.19	-6.95	54.24	74.00	-19.76	peak
2	5460.000	59.09	-6.95	52.14	74.00	-21.86	peak
3	5505.520	114.63	-6.96	107.67	74.00	33.67	peak



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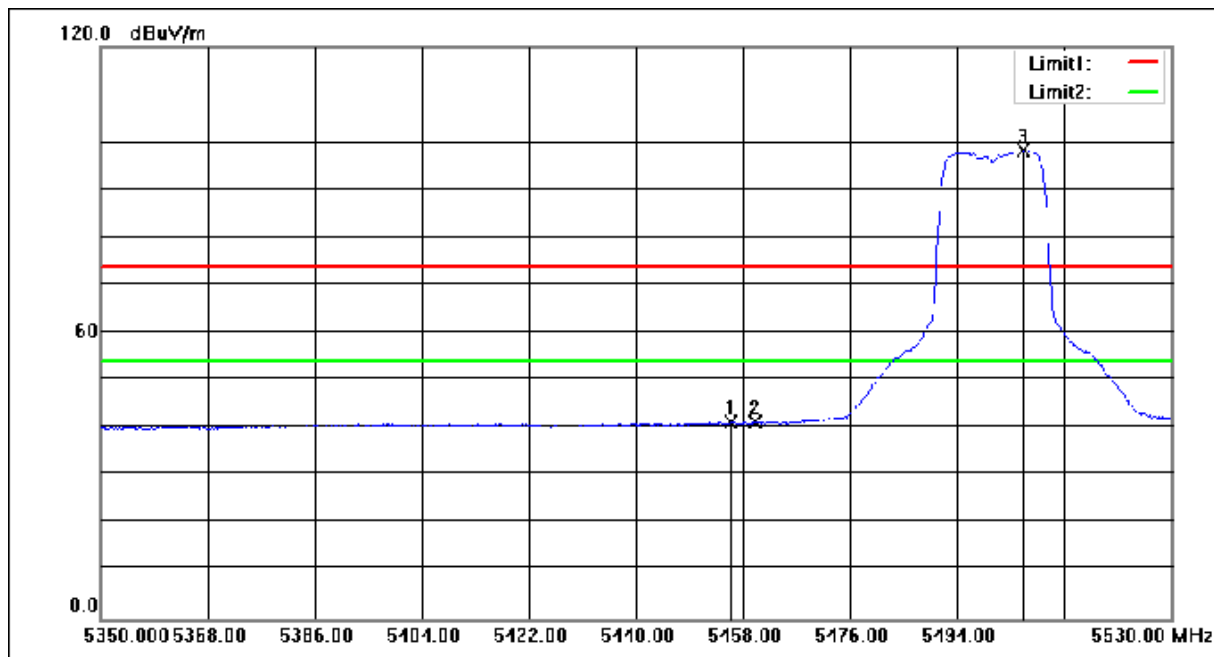
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Mode: d; Polarization: Vertical; Modulation: a; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5456.020	48.32	-6.96	41.36	54.00	-12.64	AVG
2	5460.000	48.14	-6.95	41.19	54.00	-12.81	AVG
3	5505.160	105.11	-6.96	98.15	54.00	44.15	AVG

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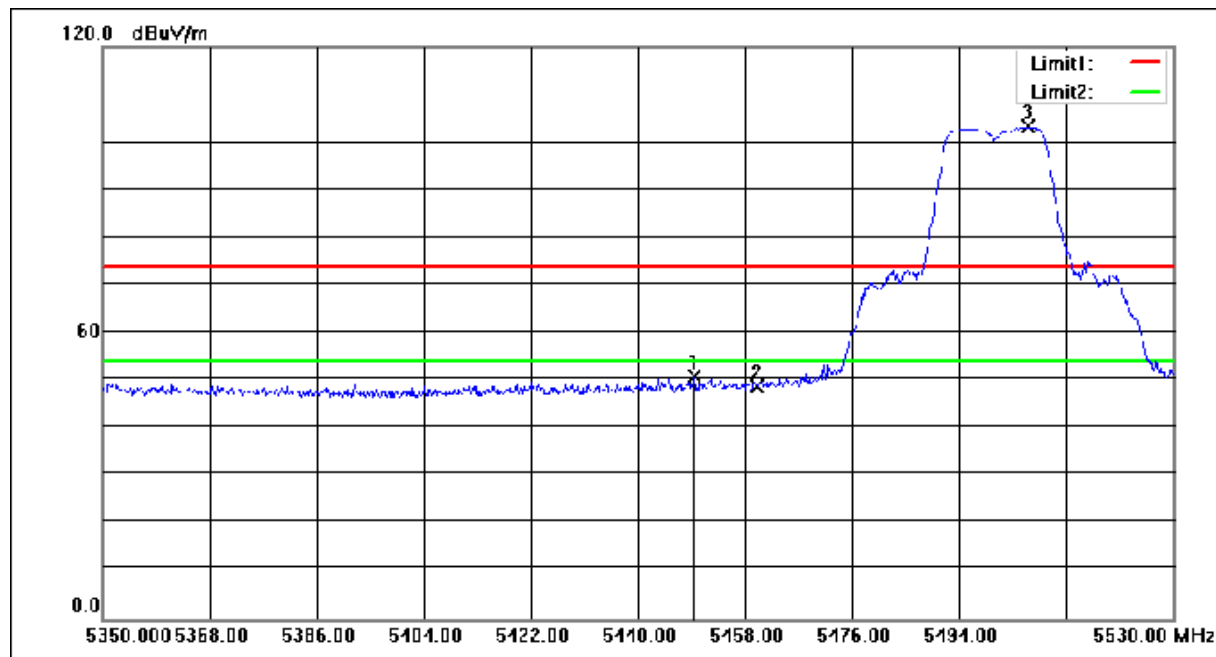
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Mode: d; Polarization: Horizontal; Modulation: n; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5449.360	57.71	-6.96	50.75	74.00	-23.25	peak
2	5460.000	55.65	-6.95	48.70	74.00	-25.30	peak
3	5505.520	110.17	-6.96	103.21	74.00	29.21	peak



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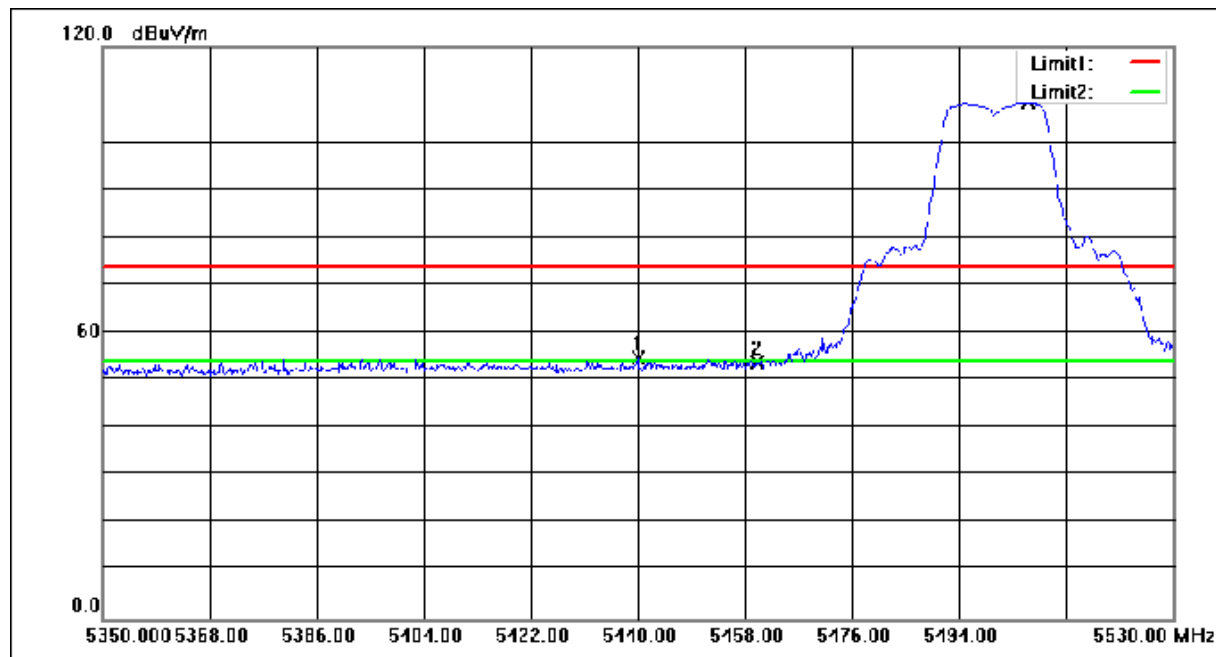
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Mode: d; Polarization: Vertical; Modulation: n; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5440.000	61.64	-6.95	54.69	74.00	-19.31	peak
2	5460.000	60.75	-6.95	53.80	74.00	-20.20	peak
3	5505.520	115.34	-6.96	108.38	74.00	34.38	peak



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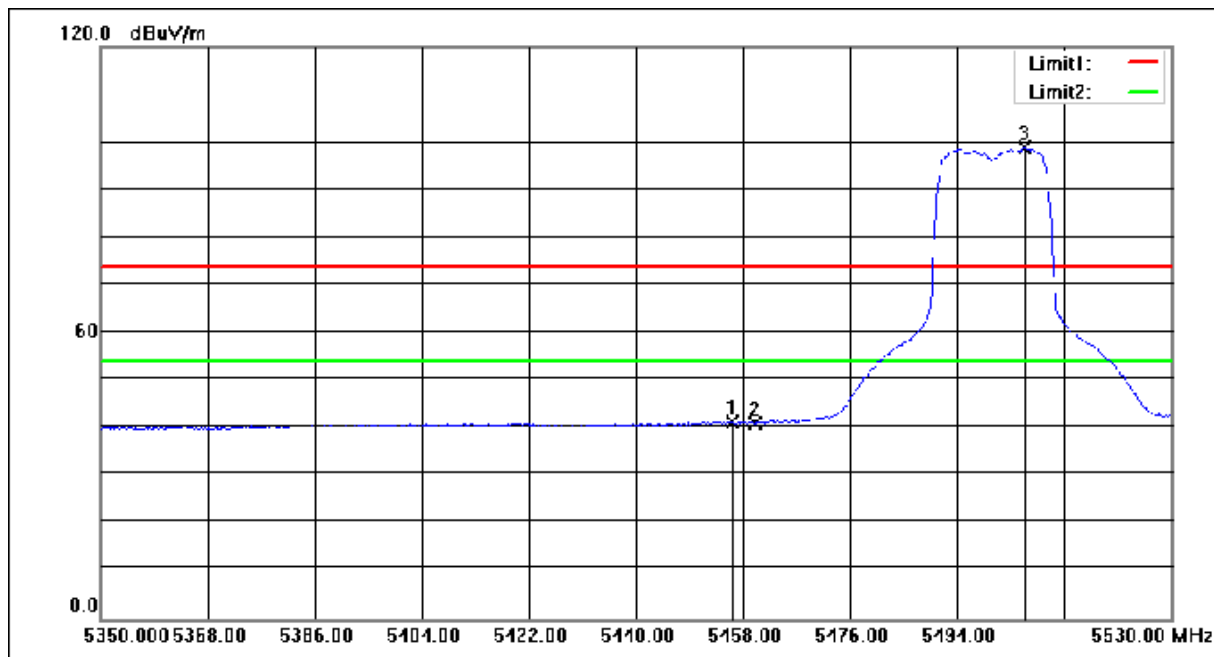
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Mode: d; Polarization: Vertical; Modulation: n; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5456.200	48.28	-6.96	41.32	54.00	-12.68	AVG
2	5460.000	48.02	-6.95	41.07	54.00	-12.93	AVG
3	5505.340	105.89	-6.96	98.93	54.00	44.93	AVG

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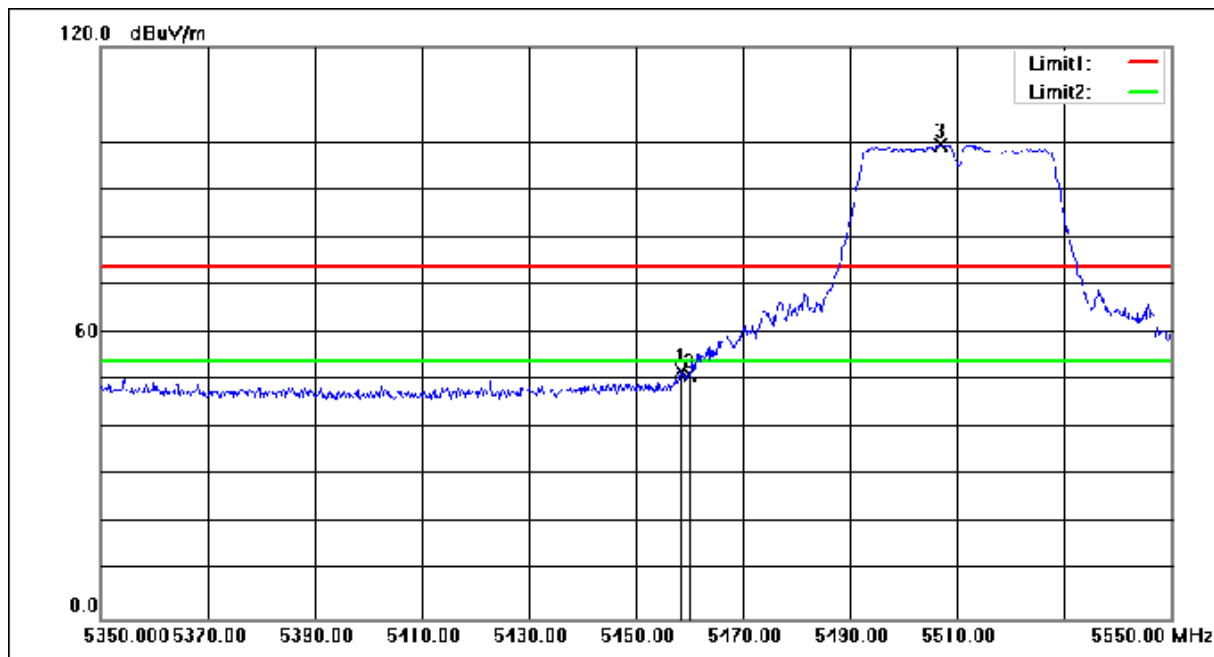
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Mode: d; Polarization: Horizontal; Modulation: n; bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5458.400	58.98	-6.96	52.02	74.00	-21.98	peak
2	5460.000	58.22	-6.95	51.27	74.00	-22.73	peak
3	5507.000	106.31	-6.96	99.35	74.00	25.35	peak

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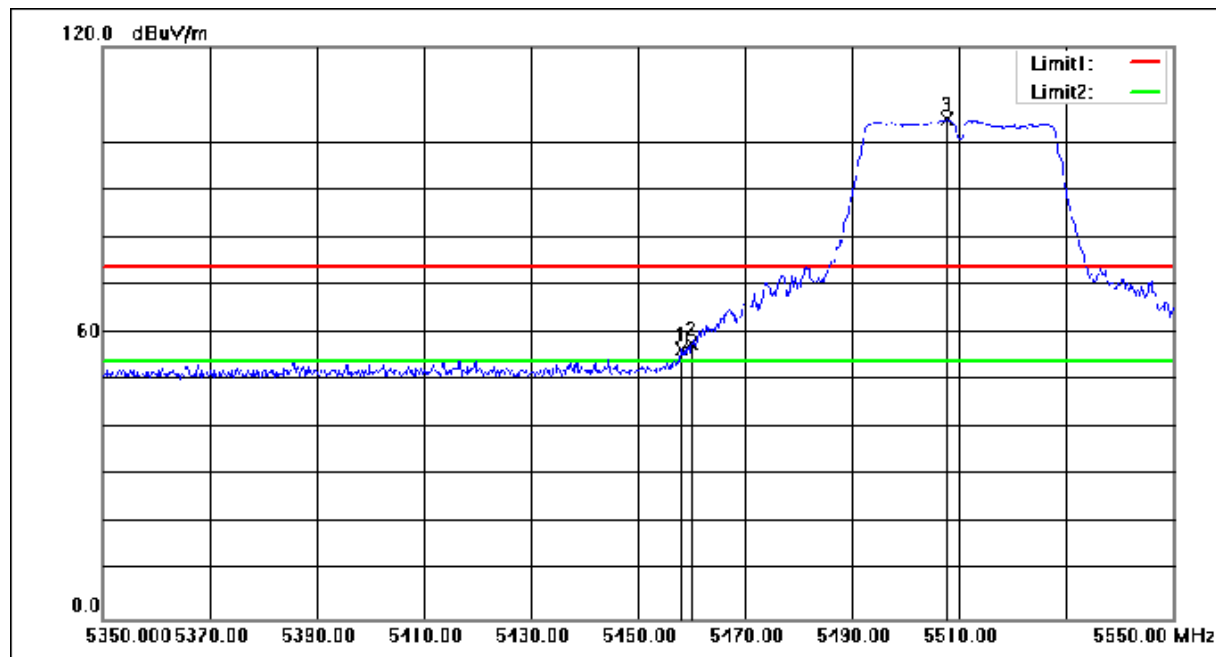
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Mode: d; Polarization: Vertical; Modulation: n; bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5458.200	63.52	-6.96	56.56	74.00	-17.44	peak
2	5460.000	64.65	-6.95	57.70	74.00	-16.30	peak
3	5507.800	111.86	-6.96	104.90	74.00	30.90	peak



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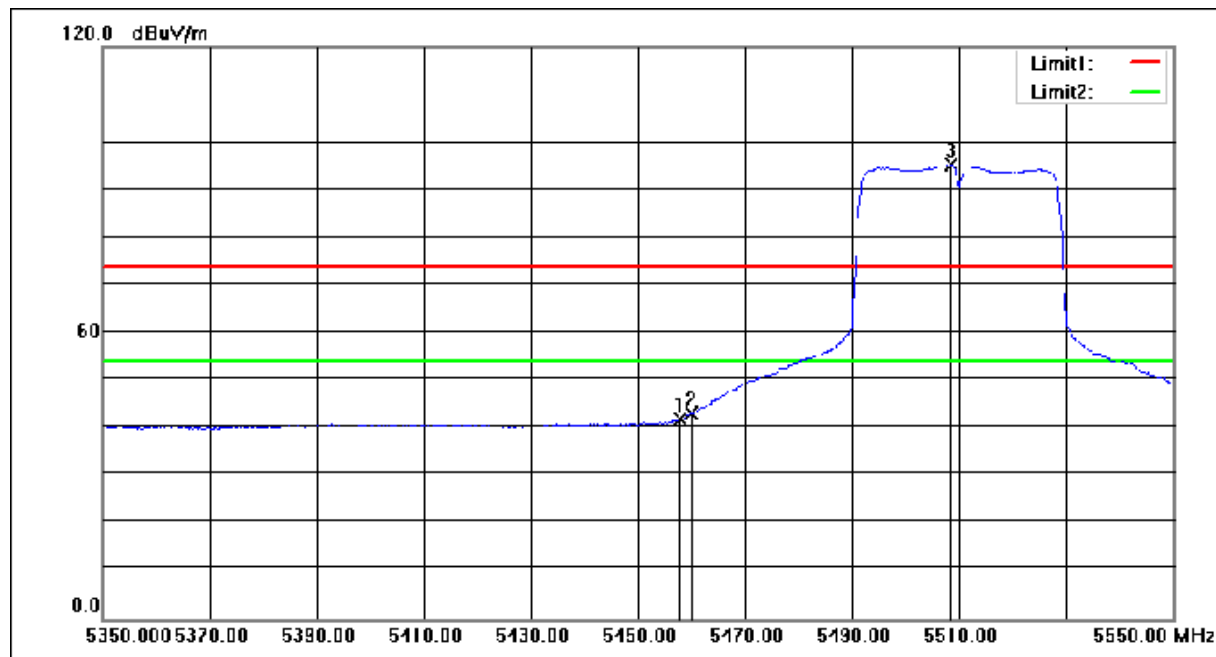
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Mode: d; Polarization: Vertical; Modulation: n; bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5457.800	48.85	-6.96	41.89	54.00	-12.11	AVG
2	5460.000	50.00	-6.95	43.05	54.00	-10.95	AVG
3	5508.600	102.09	-6.96	95.13	54.00	41.13	AVG



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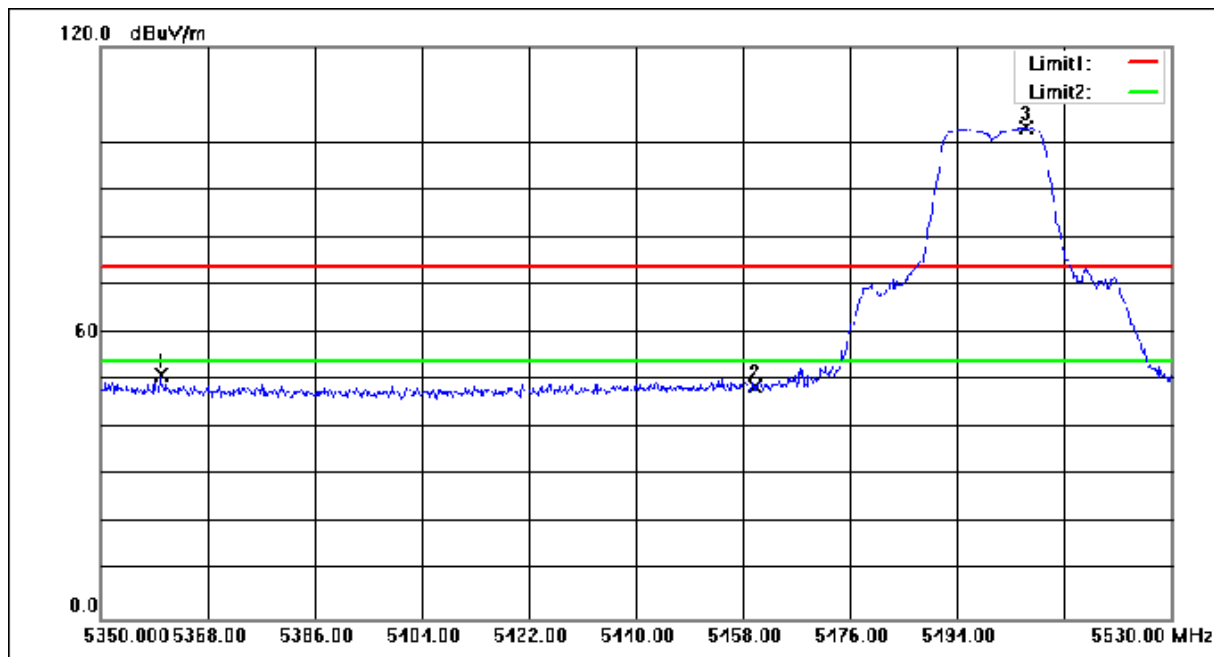
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t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

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



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5360.080	58.21	-7.10	51.11	74.00	-22.89	peak
2	5460.000	55.58	-6.95	48.63	74.00	-25.37	peak
3	5505.520	110.07	-6.96	103.11	74.00	29.11	peak

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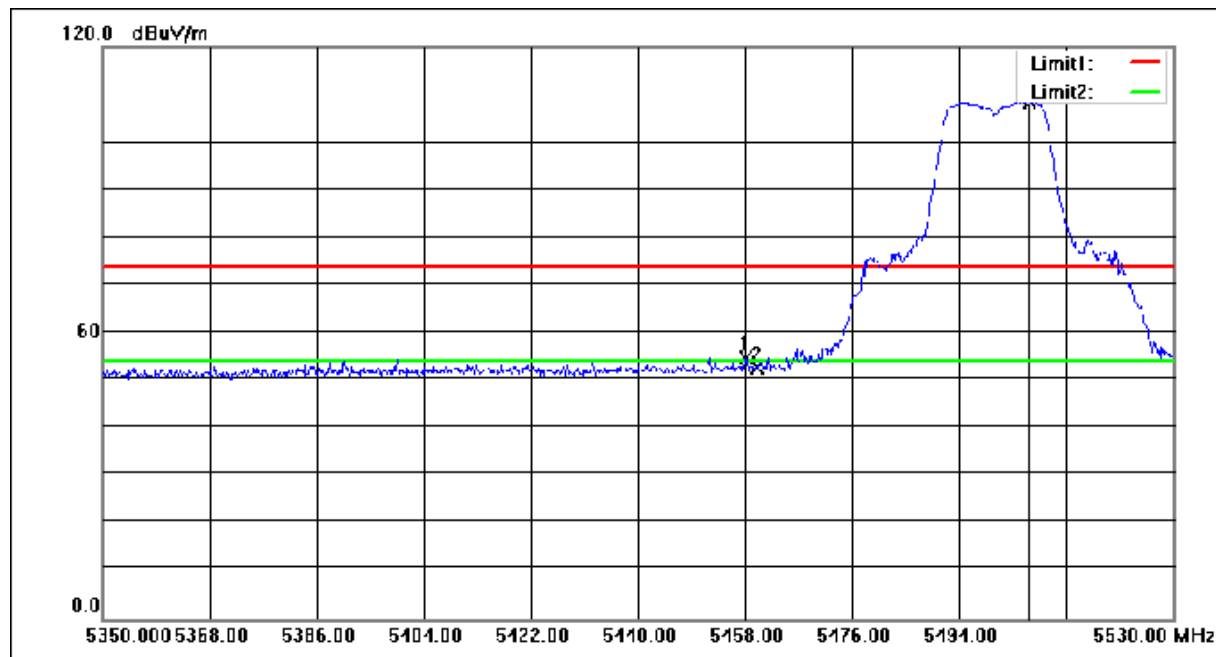
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Mode: d; Polarization: Vertical; Modulation: c; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5458.180	61.72	-6.96	54.76	74.00	-19.24	peak
2	5460.000	59.58	-6.95	52.63	74.00	-21.37	peak
3	5505.880	115.42	-6.96	108.46	74.00	34.46	peak



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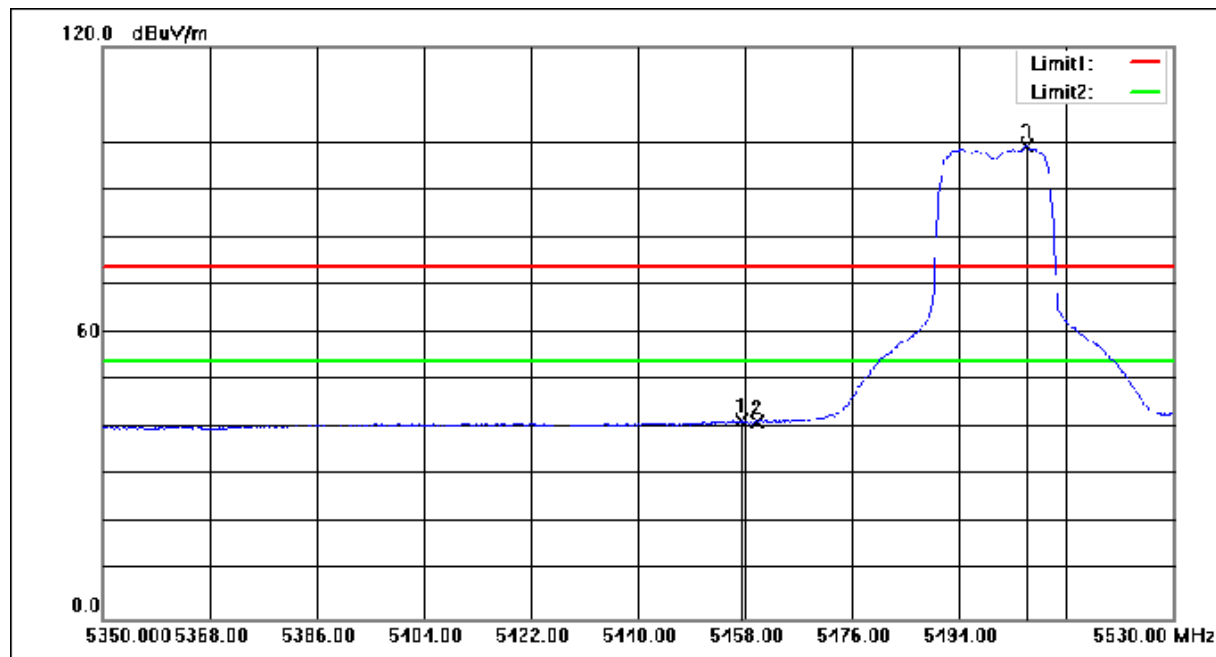
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Mode: d; Polarization: Vertical; Modulation: c; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5457.460	48.53	-6.96	41.57	54.00	-12.43	AVG
2	5460.000	48.25	-6.95	41.30	54.00	-12.70	AVG
3	5505.340	106.04	-6.96	99.08	54.00	45.08	AVG

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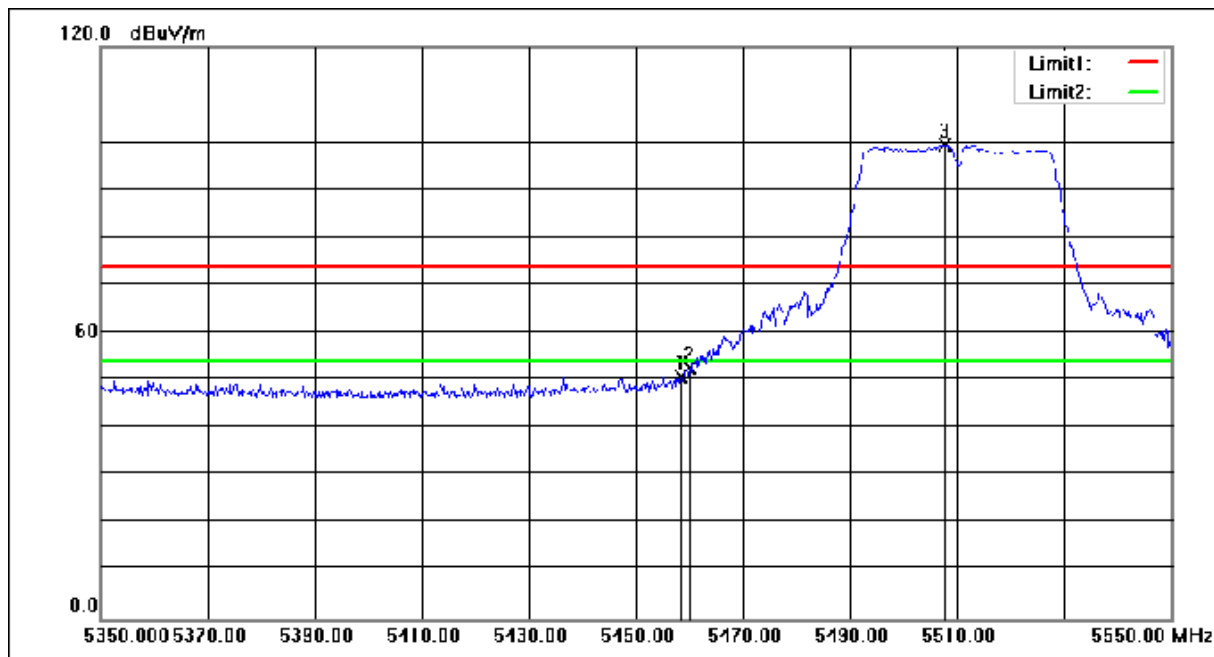
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Mode: d; Polarization: Horizontal; Modulation: c; bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5458.400	57.82	-6.96	50.86	74.00	-23.14	peak
2	5460.000	59.50	-6.95	52.55	74.00	-21.45	peak
3	5507.800	106.37	-6.96	99.41	74.00	25.41	peak

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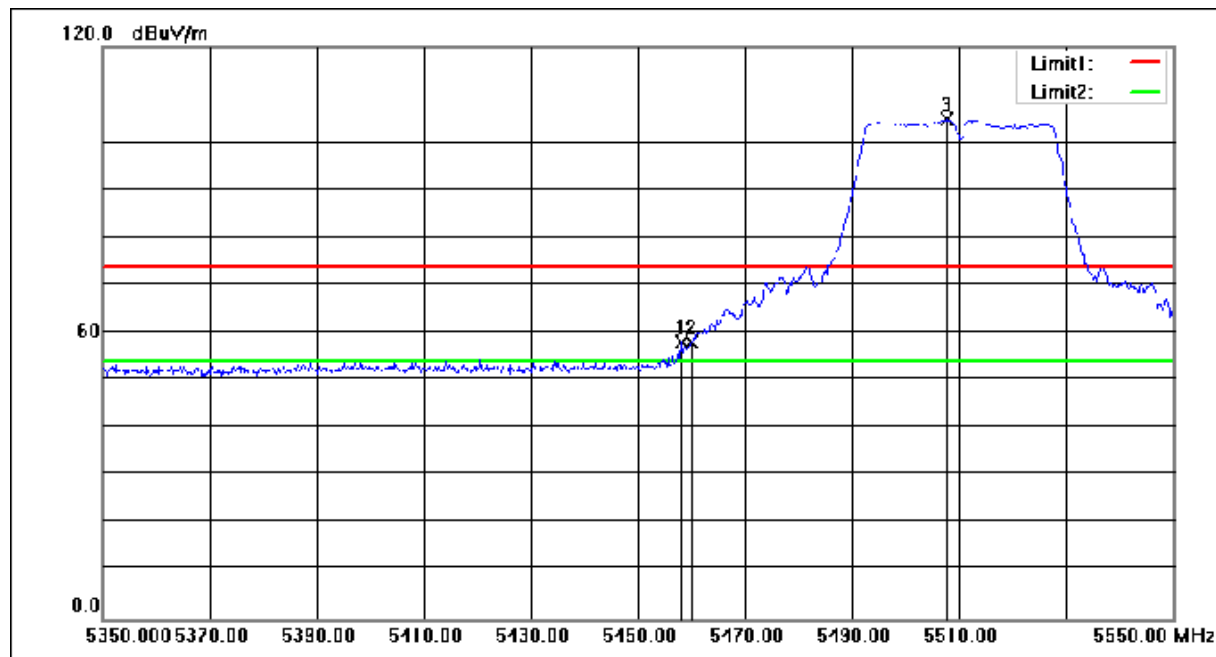
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Mode: d; Polarization: Vertical; Modulation: c; bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5458.000	64.94	-6.96	57.98	74.00	-16.02	peak
2	5460.000	64.89	-6.95	57.94	74.00	-16.06	peak
3	5507.800	111.69	-6.96	104.73	74.00	30.73	peak



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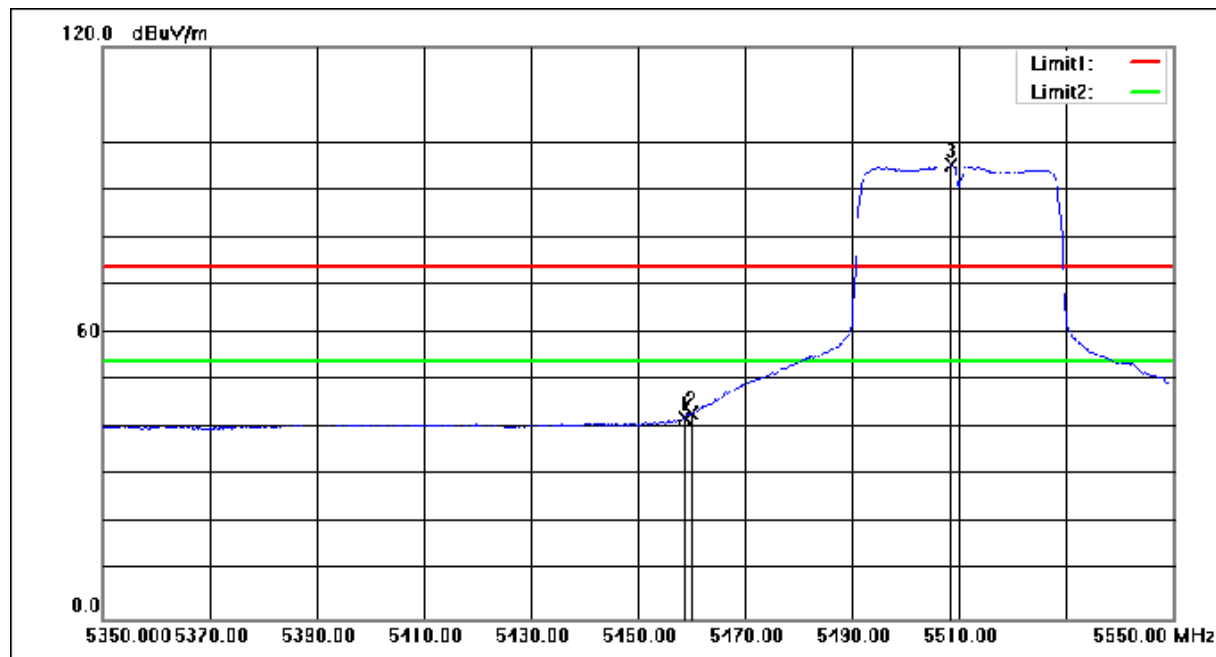
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Mode: d; Polarization: Vertical; Modulation: c; bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5458.600	49.24	-6.96	42.28	54.00	-11.72	AVG
2	5460.000	49.94	-6.95	42.99	54.00	-11.01	AVG
3	5508.400	102.07	-6.96	95.11	54.00	41.11	AVG

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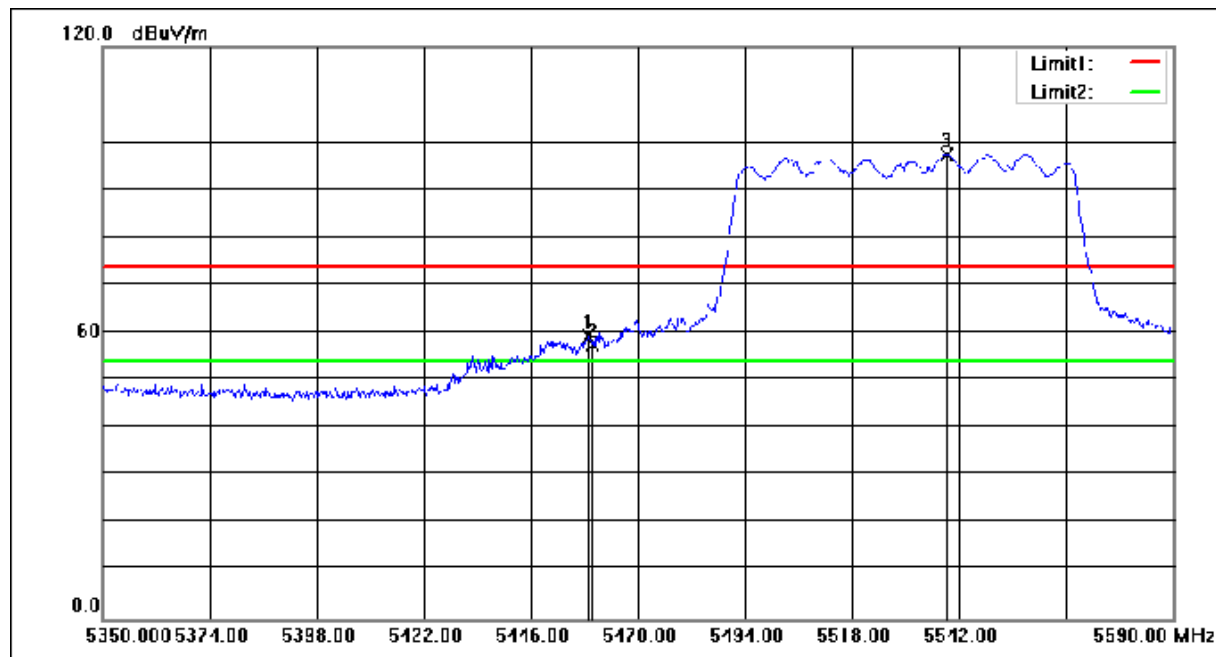
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Mode: d; Polarization: Horizontal; Modulation: c; bandwidth: 80MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5458.960	66.34	-6.96	59.38	74.00	-14.62	peak
2	5460.000	64.32	-6.95	57.37	74.00	-16.63	peak
3	5539.120	104.38	-6.97	97.41	74.00	23.41	peak

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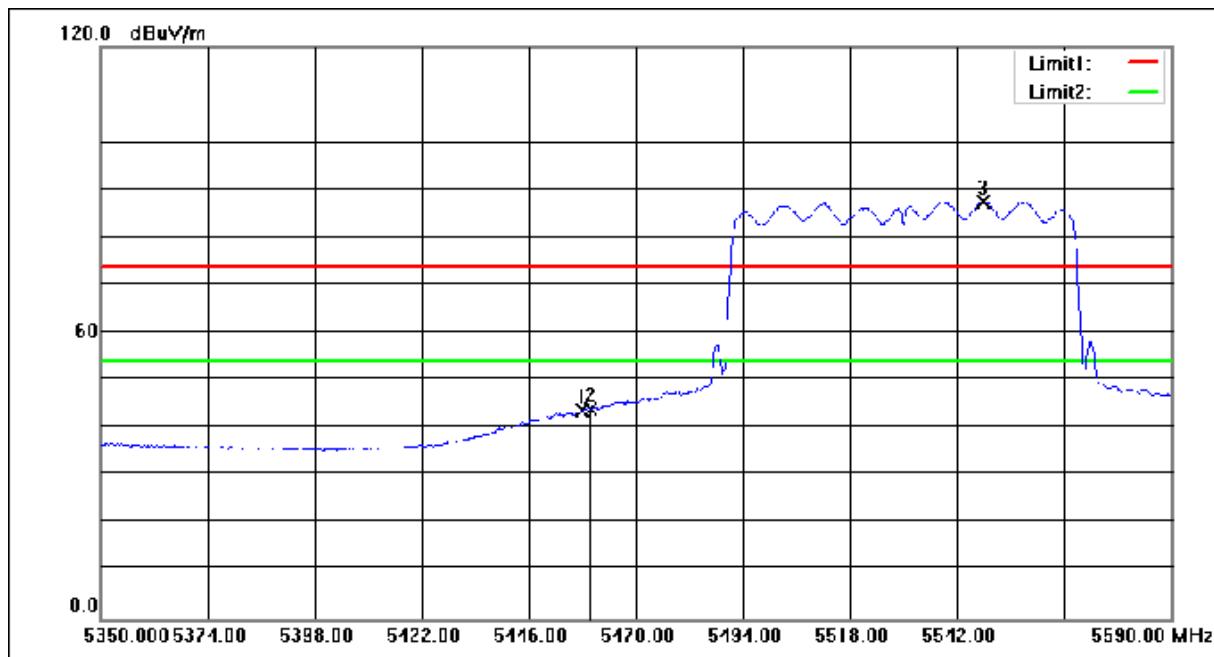
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Mode: d; Polarization: Horizontal; Modulation: c; bandwidth: 80MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5458.000	50.71	-6.96	43.75	54.00	-10.25	AVG
2	5460.000	50.97	-6.95	44.02	54.00	-9.98	AVG
3	5548.000	94.56	-6.96	87.60	54.00	33.60	AVG

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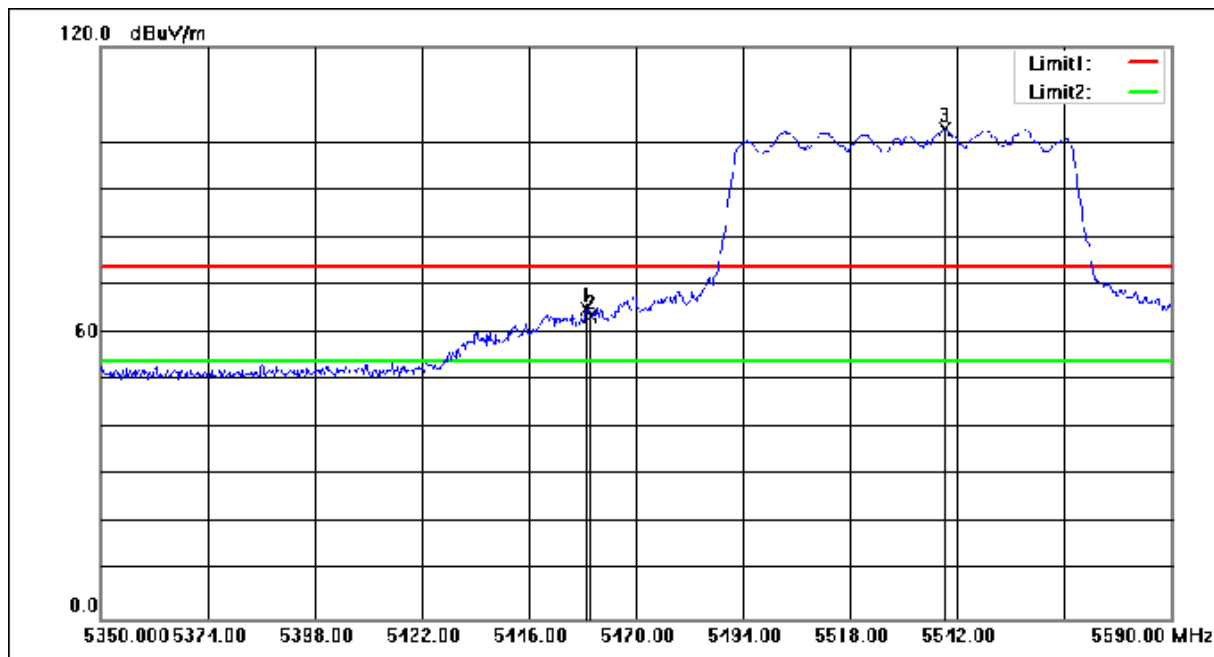
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5458.960	71.95	-6.96	64.99	74.00	-9.01	peak
2	5460.000	70.53	-6.95	63.58	74.00	-10.42	peak
3	5539.120	109.70	-6.97	102.73	74.00	28.73	peak

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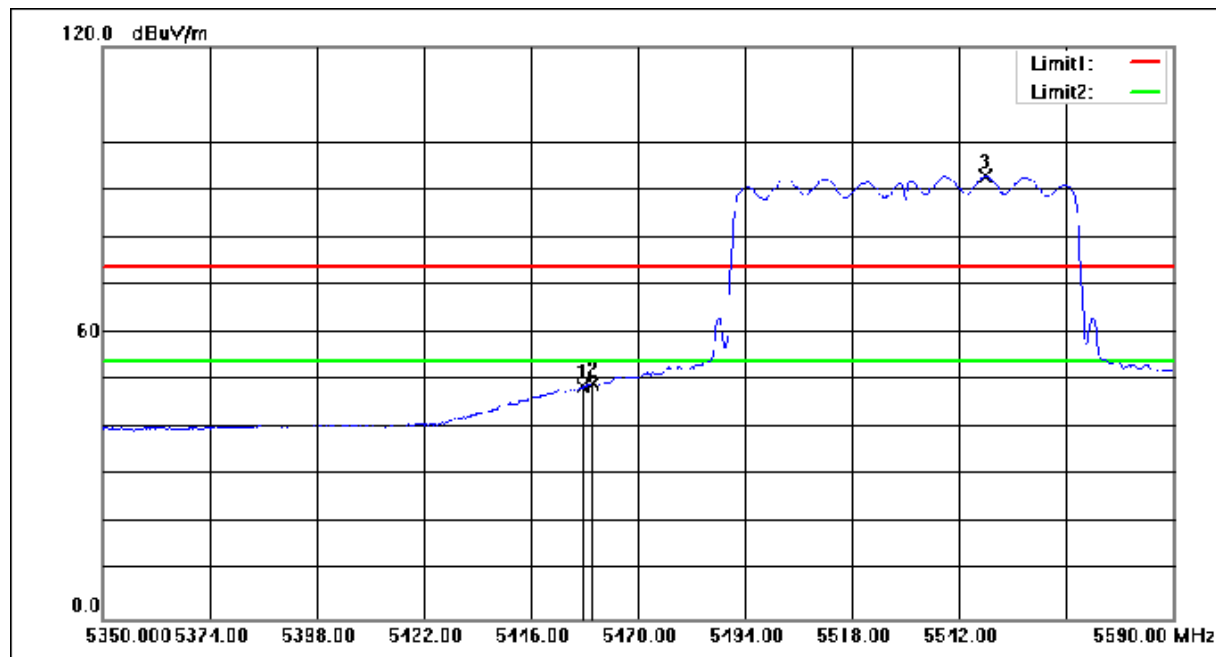
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Mode: d; Polarization: Vertical; Modulation: c; bandwidth: 80MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5457.760	55.85	-6.96	48.89	54.00	-5.11	AVG
2	5460.000	56.15	-6.95	49.20	54.00	-4.80	AVG
3	5548.000	99.81	-6.96	92.85	54.00	38.85	AVG



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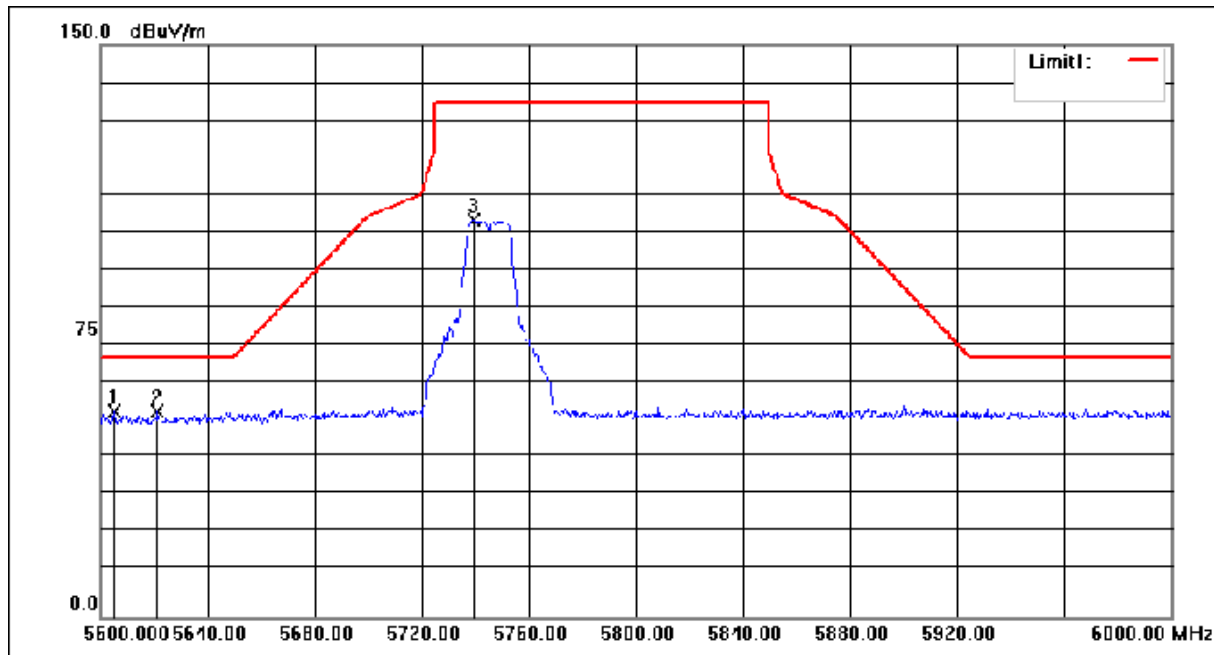
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Mode: e; Polarization: Horizontal; Modulation: a; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5605.200	60.63	-6.95	53.68	68.20	-14.52	peak
2	5621.200	60.55	-6.92	53.63	68.20	-14.57	peak
3	5739.200	110.66	-6.61	104.05	135.00	-30.95	peak

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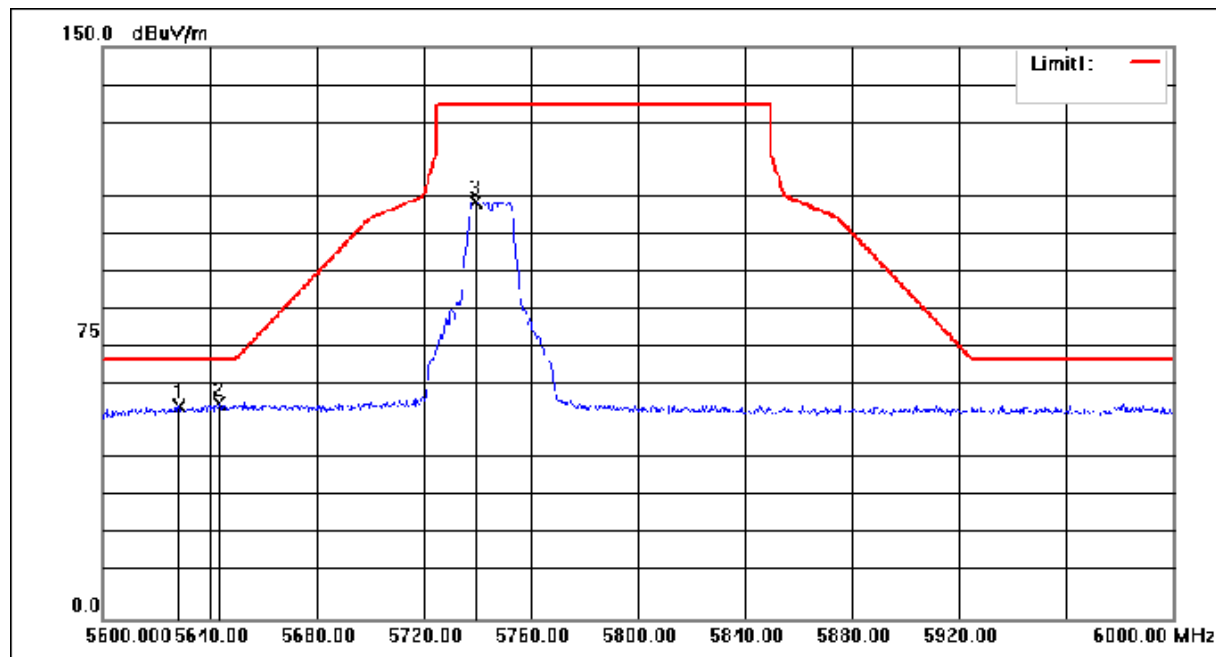
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Mode: e; Polarization: Vertical; Modulation: a; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5628.400	62.56	-6.90	55.66	68.20	-12.54	peak
2	5643.600	63.21	-6.85	56.36	68.20	-11.84	peak
3	5739.200	116.05	-6.61	109.44	135.00	-25.56	peak



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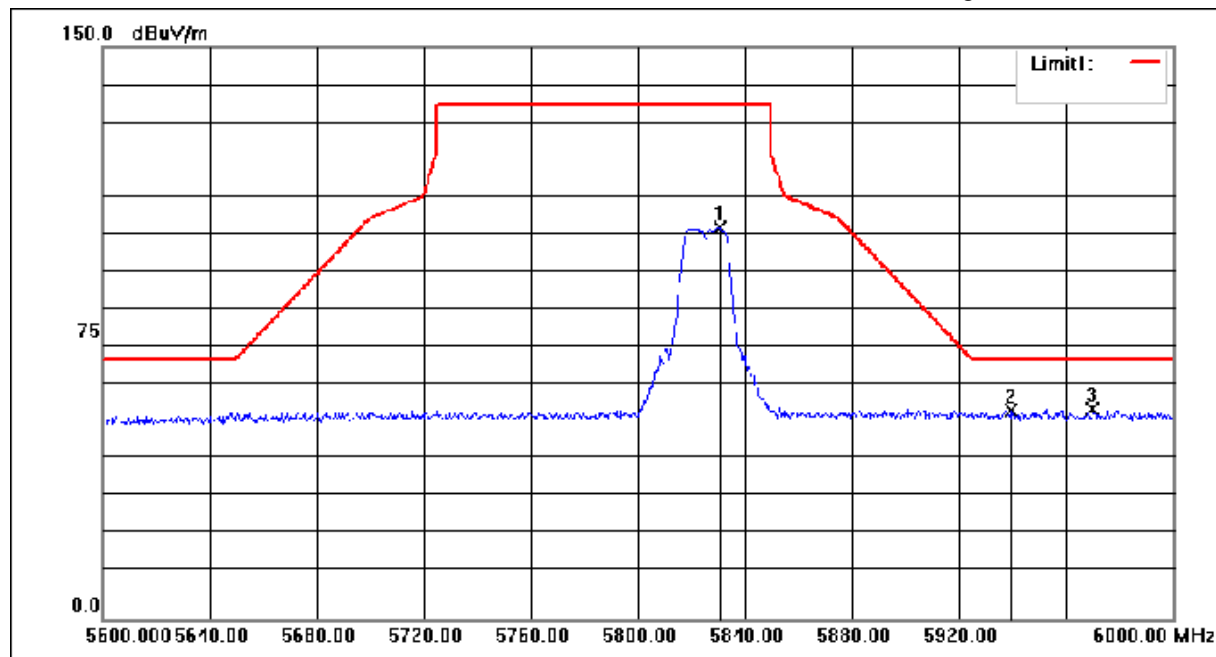
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Mode: e; Polarization: Horizontal; Modulation: a; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5830.400	108.89	-6.30	102.59	135.00	-32.41	peak
2	5939.600	60.29	-5.69	54.60	68.20	-13.60	peak
3	5970.000	60.38	-5.52	54.86	68.20	-13.34	peak



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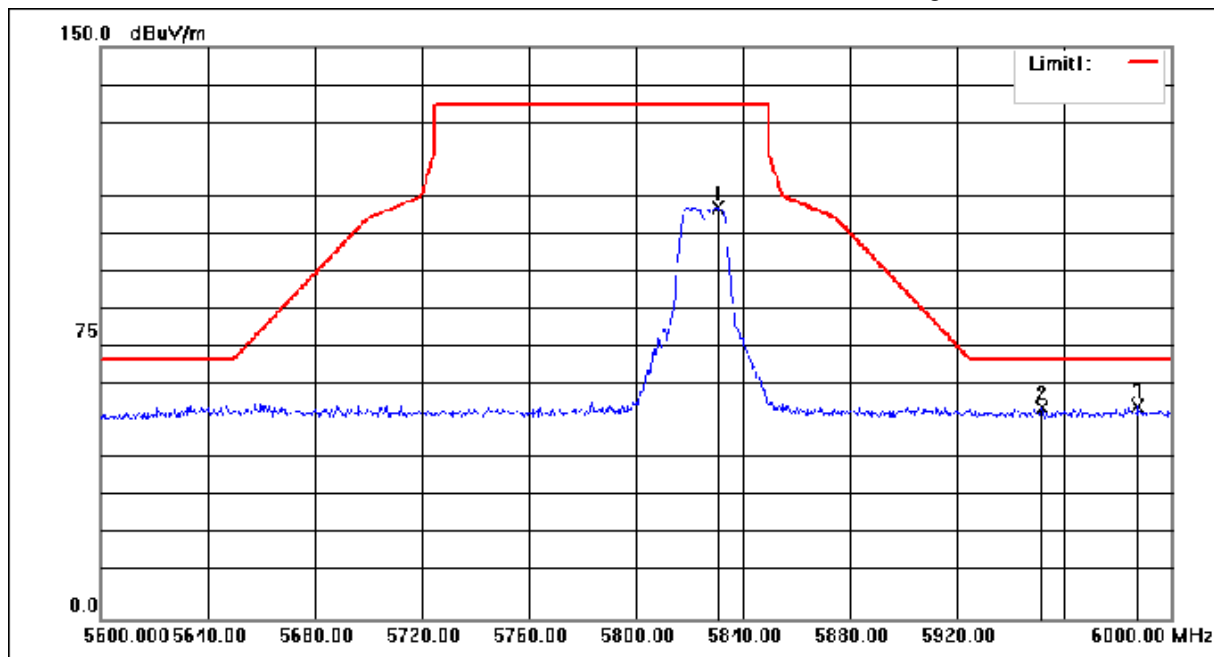
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Mode: e; Polarization: Vertical; Modulation: a; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5830.400	114.18	-6.30	107.88	135.00	-27.12	peak
2	5951.600	60.91	-5.63	55.28	68.20	-12.92	peak
3	5987.600	60.95	-5.43	55.52	68.20	-12.68	peak

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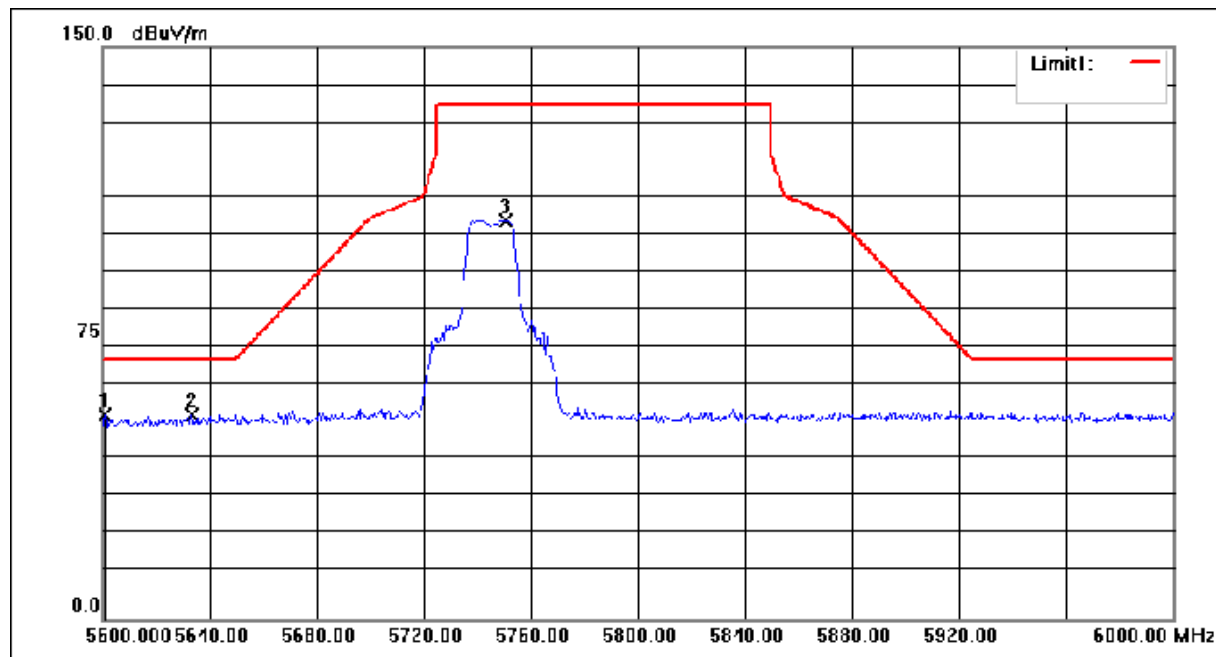
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Mode: e; Polarization: Horizontal; Modulation: n; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5600.800	60.57	-6.97	53.60	68.20	-14.60	peak
2	5633.200	60.36	-6.89	53.47	68.20	-14.73	peak
3	5750.400	111.20	-6.58	104.62	135.00	-30.38	peak



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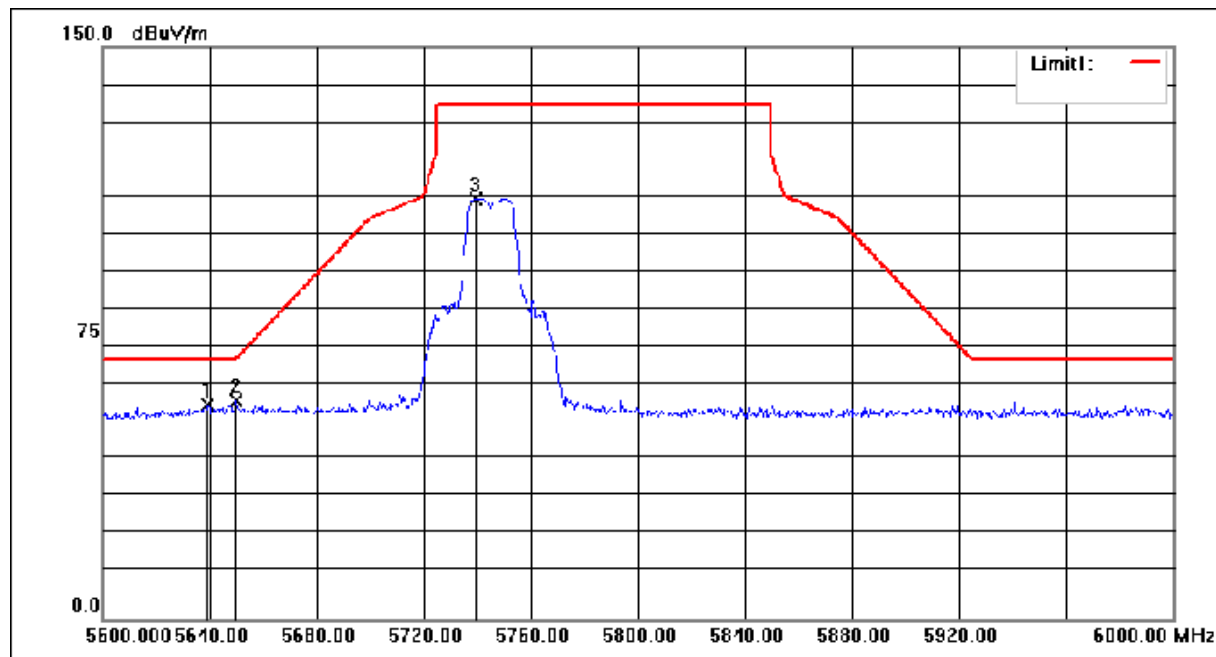
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Mode: e; Polarization: Vertical; Modulation: n; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5639.200	62.76	-6.87	55.89	68.20	-12.31	peak
2	5649.600	64.04	-6.85	57.19	68.20	-11.01	peak
3	5739.600	116.74	-6.61	110.13	135.00	-24.87	peak



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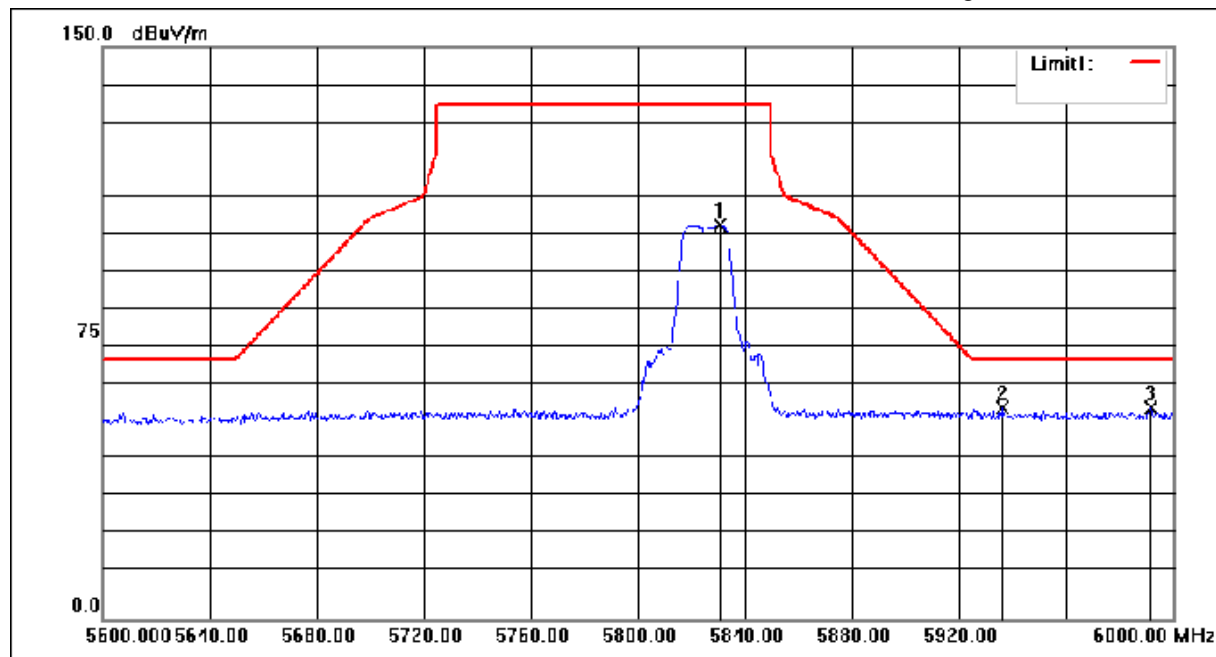
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Mode: e; Polarization: Horizontal; Modulation: n; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5830.800	109.59	-6.29	103.30	135.00	-31.70	peak
2	5936.000	60.89	-5.71	55.18	68.20	-13.02	peak
3	5991.600	60.74	-5.40	55.34	68.20	-12.86	peak

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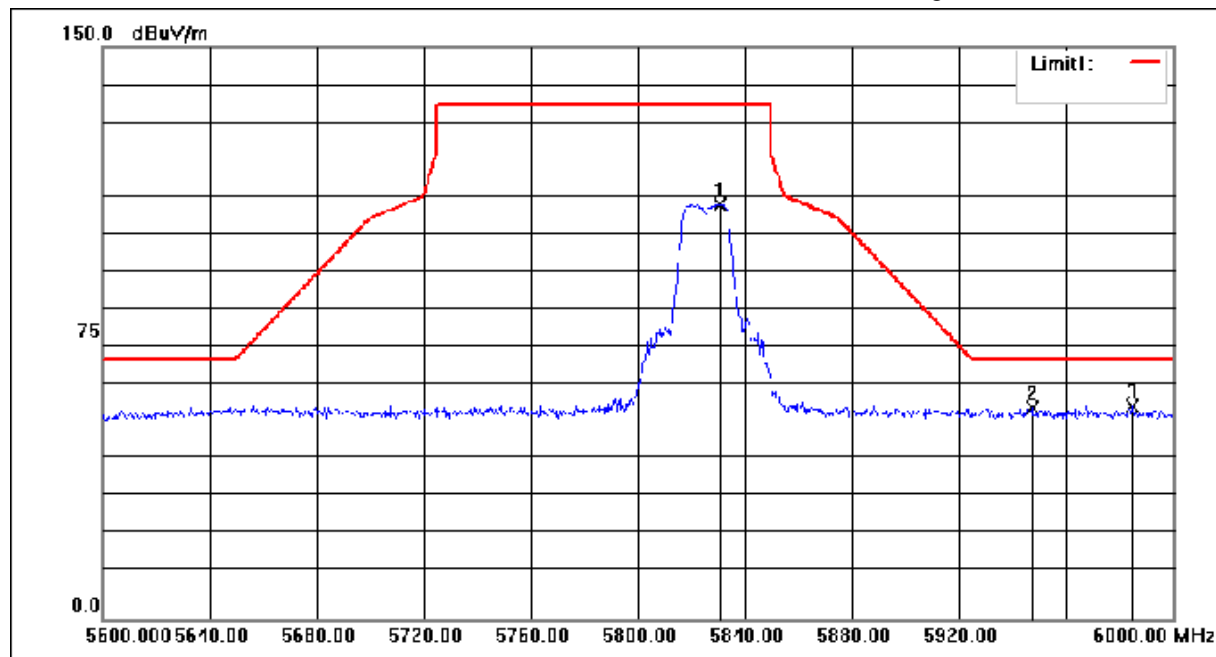
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Mode: e; Polarization: Vertical; Modulation: n; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5830.800	114.90	-6.29	108.61	135.00	-26.39	peak
2	5947.200	60.94	-5.65	55.29	68.20	-12.91	peak
3	5984.800	61.21	-5.44	55.77	68.20	-12.43	peak

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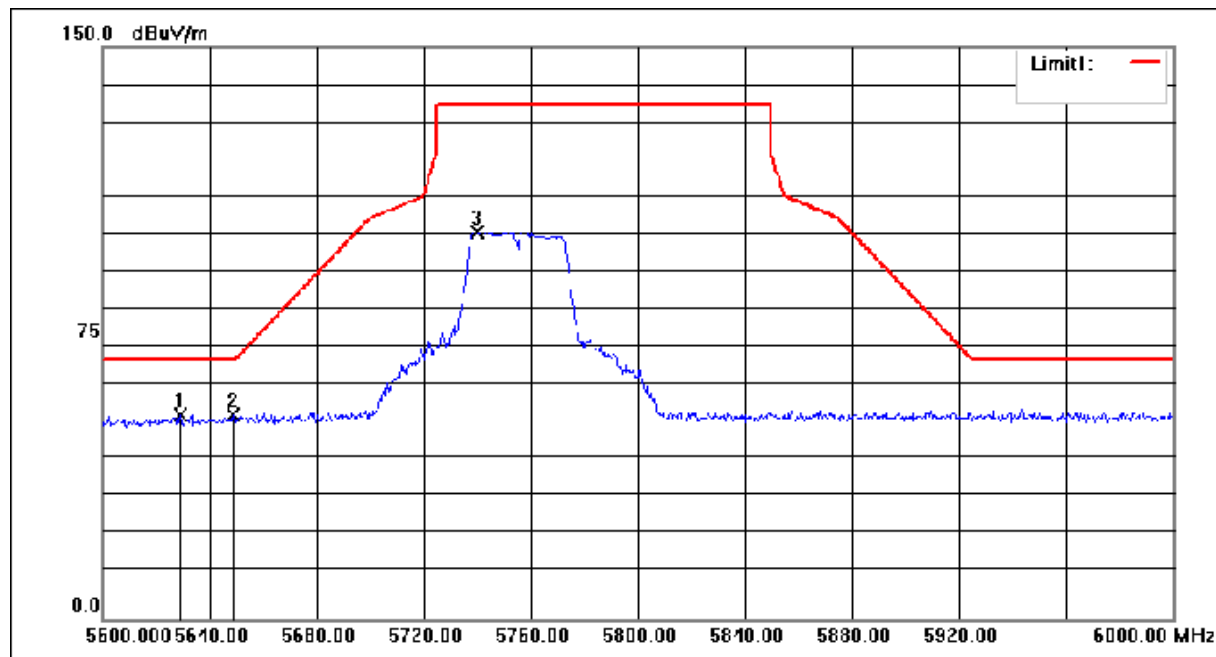
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Mode: e; Polarization: Horizontal; Modulation: n; bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5628.800	60.42	-6.90	53.52	68.20	-14.68	peak
2	5648.800	60.33	-6.85	53.48	68.20	-14.72	peak
3	5740.000	108.23	-6.61	101.62	135.00	-33.38	peak



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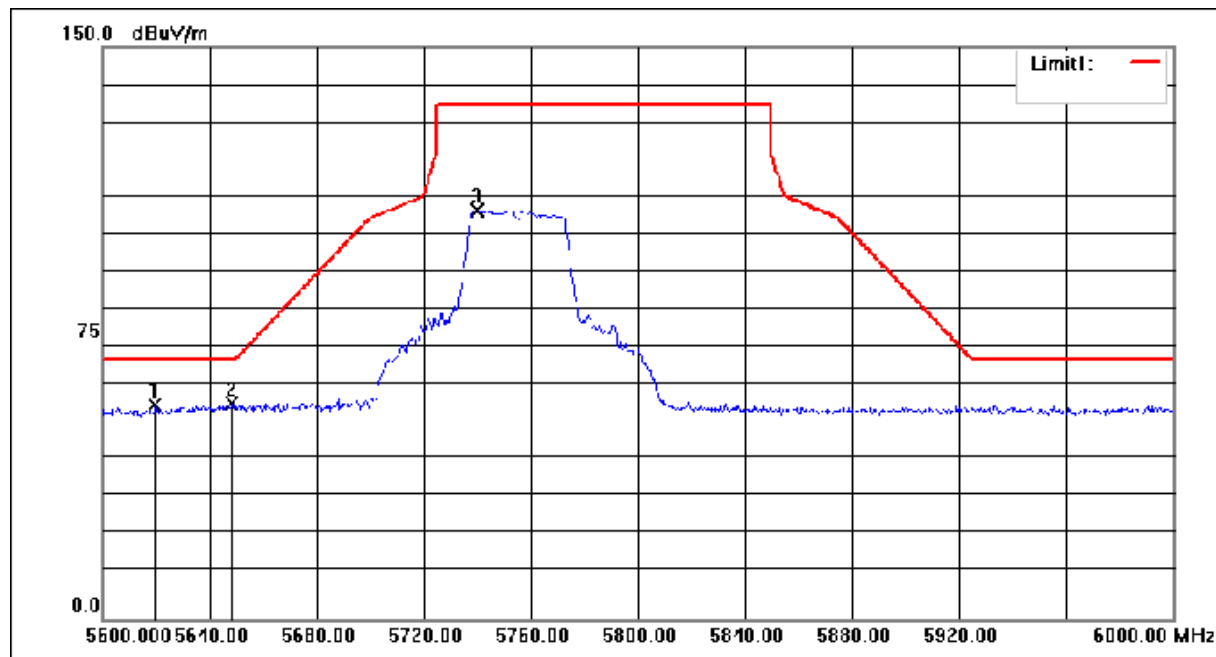
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Mode: e; Polarization: Vertical; Modulation: n; bandwidth: 40MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5619.600	62.94	-6.92	56.02	68.20	-12.18	peak
2	5648.400	63.27	-6.85	56.42	68.20	-11.78	peak
3	5740.000	113.78	-6.61	107.17	135.00	-27.83	peak

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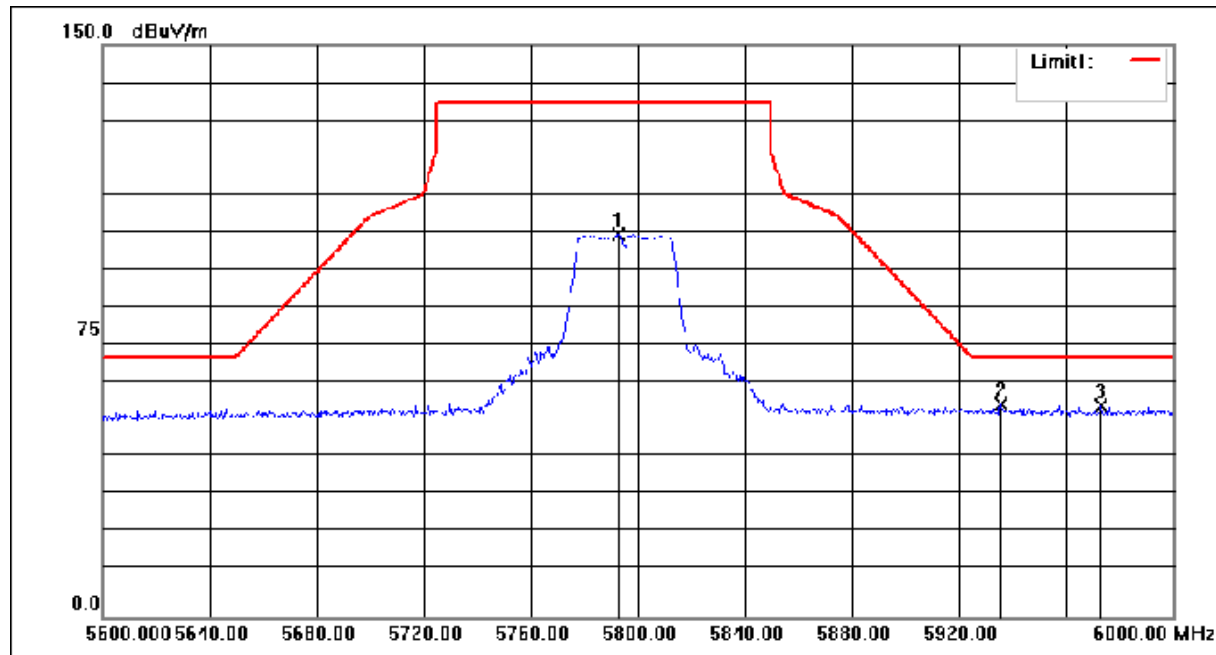
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Mode: e; Polarization: Horizontal; Modulation: n; bandwidth: 40MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5792.800	106.86	-6.48	100.38	135.00	-34.62	peak
2	5935.600	61.22	-5.71	55.51	68.20	-12.69	peak
3	5973.200	60.87	-5.51	55.36	68.20	-12.84	peak

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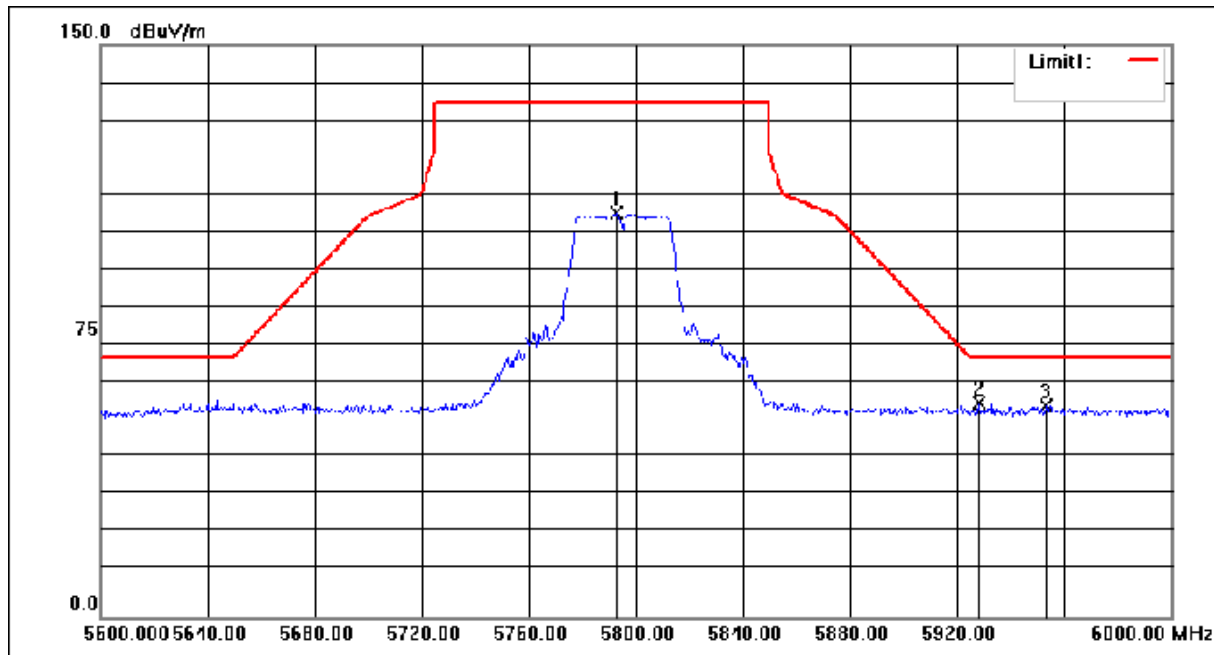
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Mode: e; Polarization: Vertical; Modulation: n; bandwidth: 40MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5792.800	112.35	-6.48	105.87	135.00	-29.13	peak
2	5928.000	61.89	-5.76	56.13	68.20	-12.07	peak
3	5953.200	61.09	-5.61	55.48	68.20	-12.72	peak

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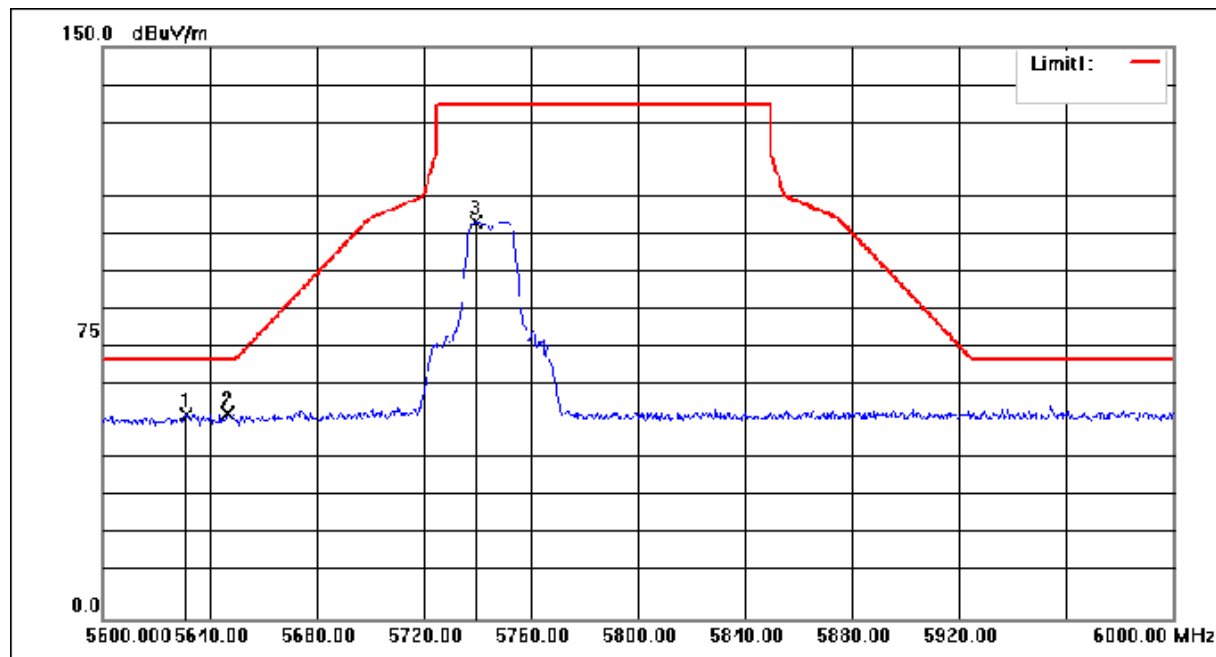
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Mode: e; Polarization: Horizontal; Modulation: c; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5631.200	60.44	-6.89	53.55	68.20	-14.65	peak
2	5646.400	60.69	-6.85	53.84	68.20	-14.36	peak
3	5739.600	110.74	-6.61	104.13	135.00	-30.87	peak



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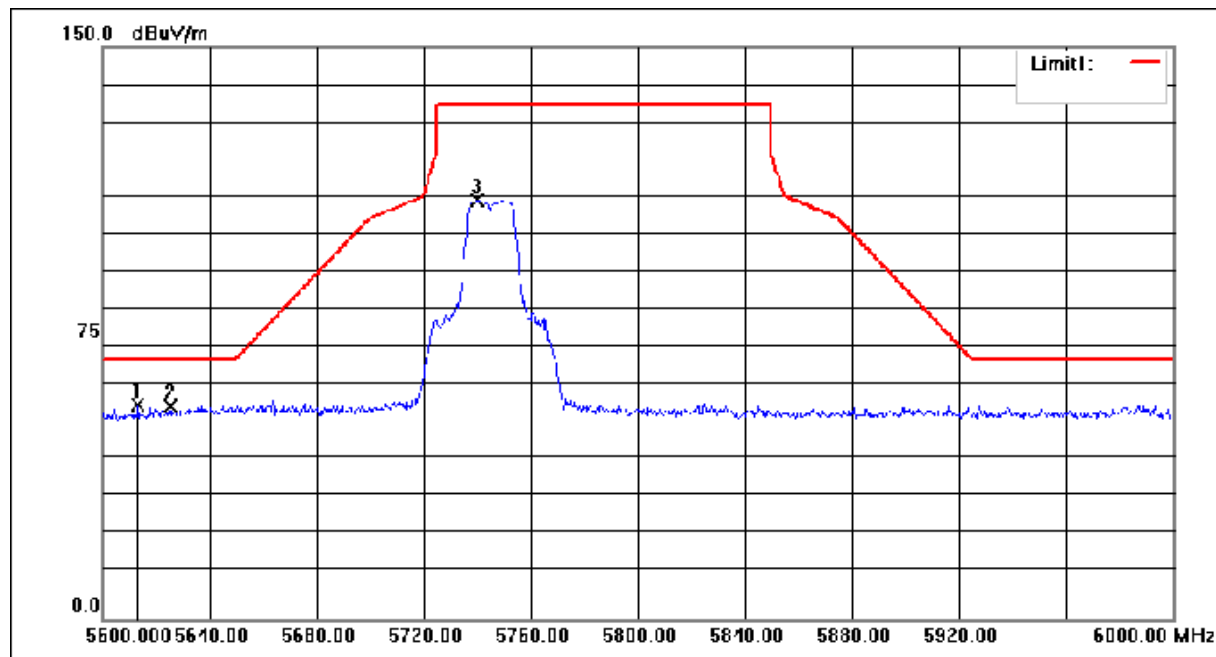
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Mode: e; Polarization: Vertical; Modulation: c; bandwidth: 20MHz; Channel: Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5613.200	62.99	-6.94	56.05	68.20	-12.15	peak
2	5625.200	62.53	-6.90	55.63	68.20	-12.57	peak
3	5740.000	116.35	-6.61	109.74	135.00	-25.26	peak



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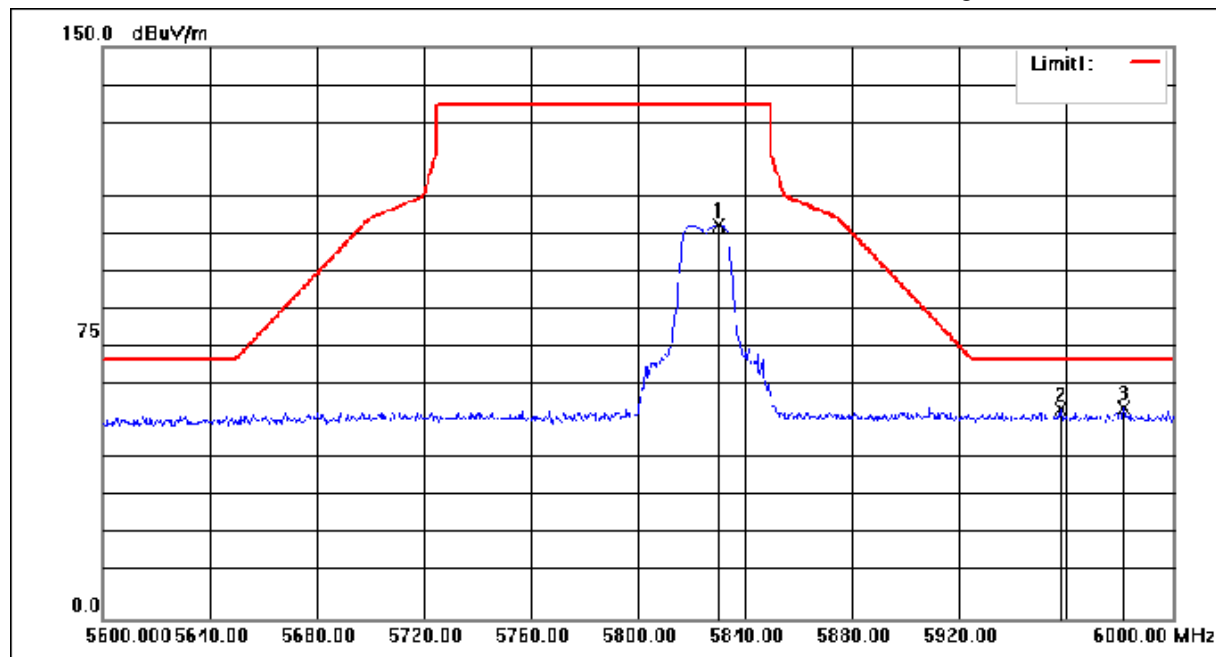
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Mode: e; Polarization: Horizontal; Modulation: c; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5830.000	109.47	-6.30	103.17	135.00	-31.83	peak
2	5958.000	60.59	-5.59	55.00	68.20	-13.20	peak
3	5981.600	60.74	-5.47	55.27	68.20	-12.93	peak



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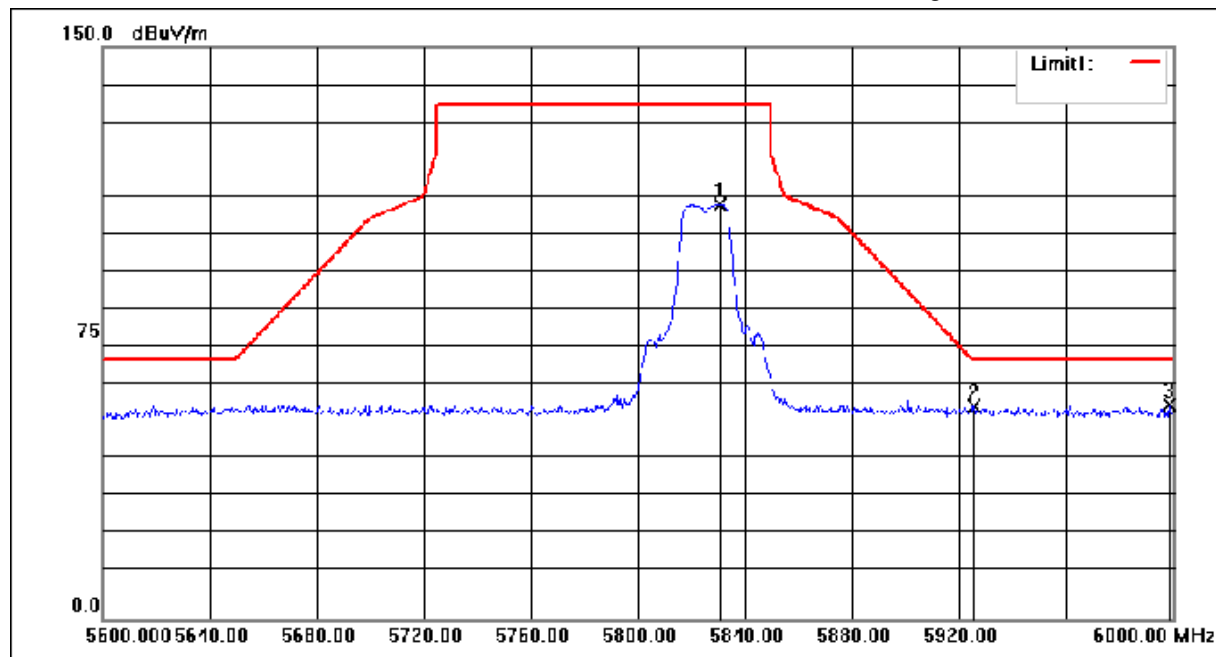
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Mode: e; Polarization: Vertical; Modulation: c; bandwidth: 20MHz; Channel: High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5830.800	114.93	-6.29	108.64	135.00	-26.36	peak
2	5925.600	61.53	-5.77	55.76	68.20	-12.44	peak
3	5998.400	61.41	-5.37	56.04	68.20	-12.16	peak



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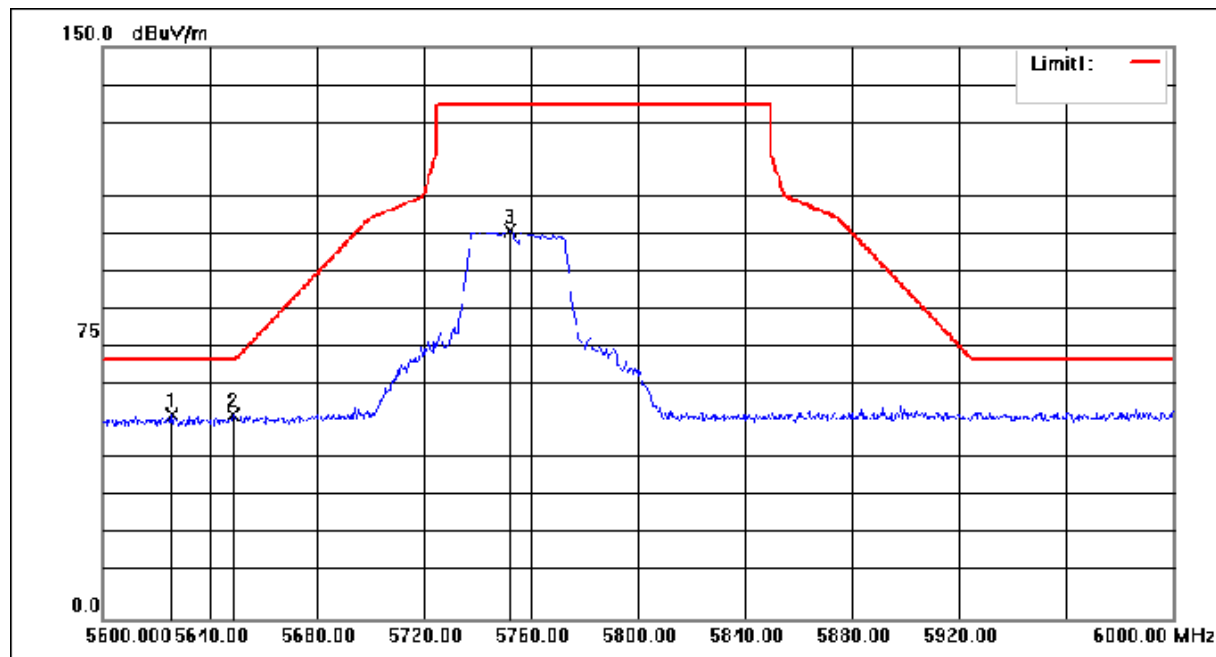
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5625.600	60.24	-6.90	53.34	68.20	-14.86	peak
2	5648.800	60.39	-6.85	53.54	68.20	-14.66	peak
3	5752.000	108.26	-6.58	101.68	135.00	-33.32	peak



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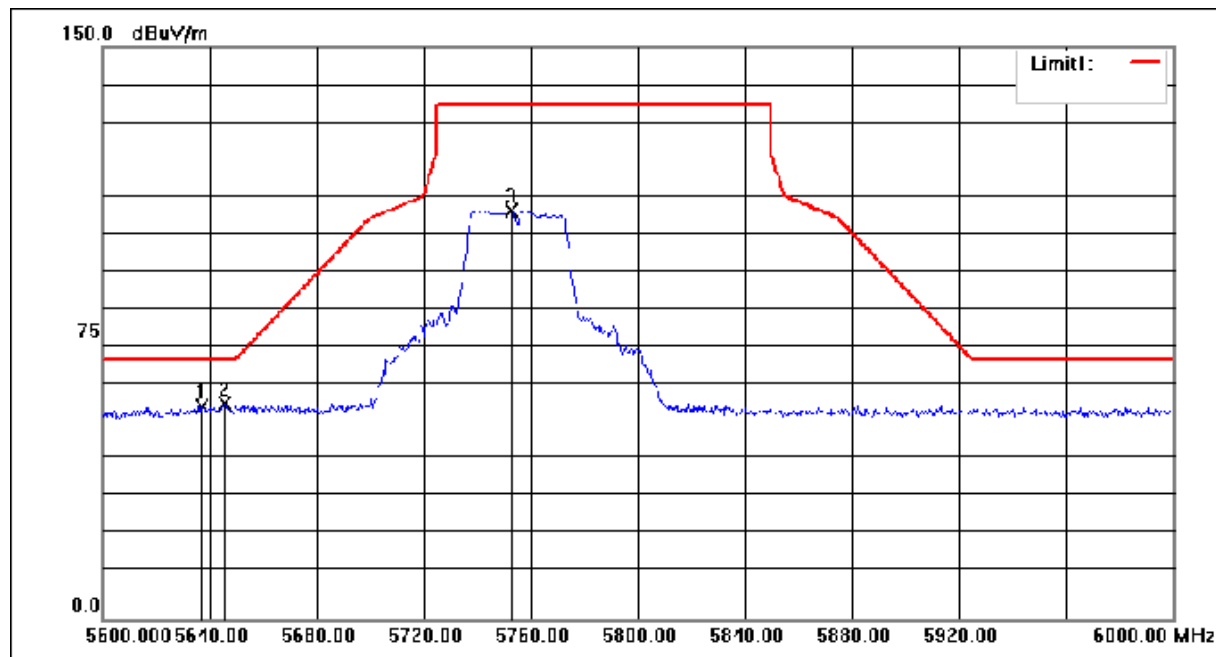
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5636.800	62.50	-6.87	55.63	68.20	-12.57	peak
2	5645.600	63.33	-6.85	56.48	68.20	-11.72	peak
3	5752.800	113.80	-6.58	107.22	135.00	-27.78	peak



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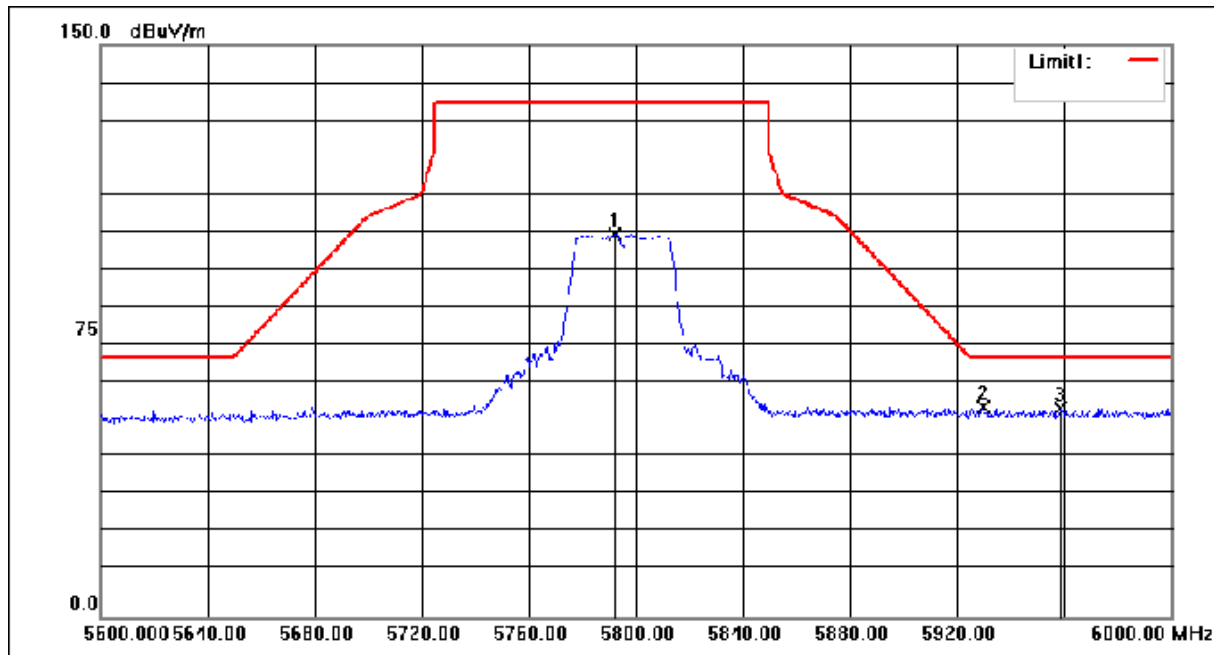
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5792.000	106.75	-6.48	100.27	135.00	-34.73	peak
2	5929.600	60.80	-5.75	55.05	68.20	-13.15	peak
3	5958.800	60.28	-5.58	54.70	68.20	-13.50	peak



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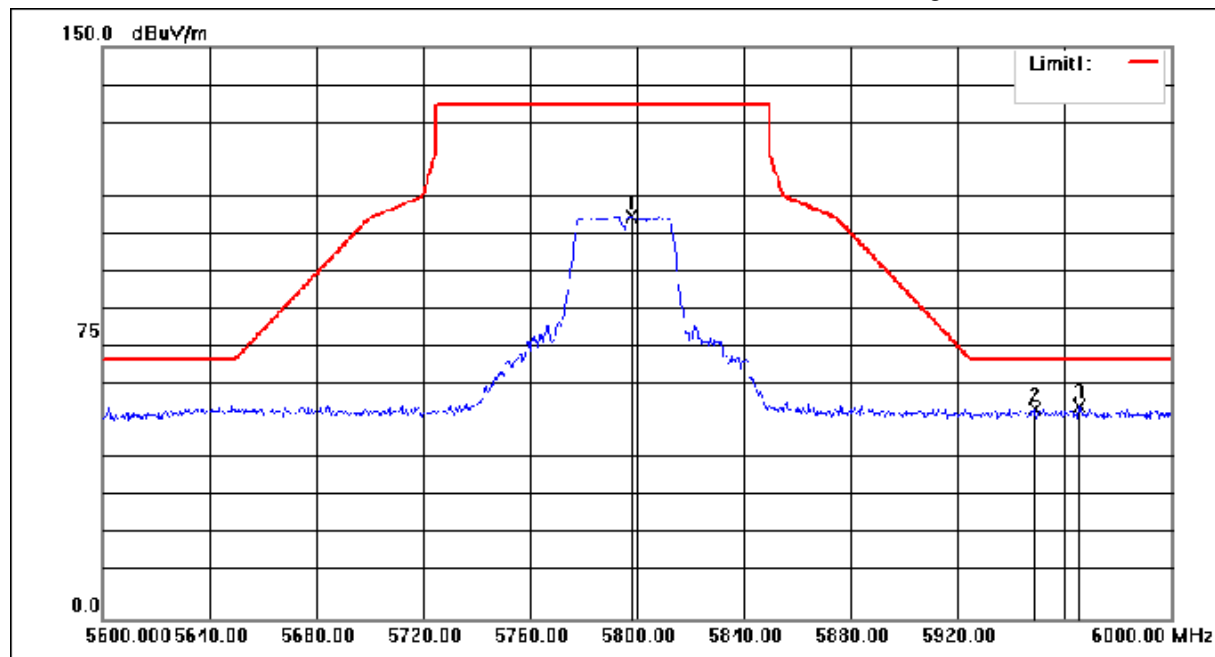
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5798.000	112.20	-6.46	105.74	135.00	-29.26	peak
2	5948.800	60.62	-5.65	54.97	68.20	-13.23	peak
3	5965.600	61.09	-5.55	55.54	68.20	-12.66	peak

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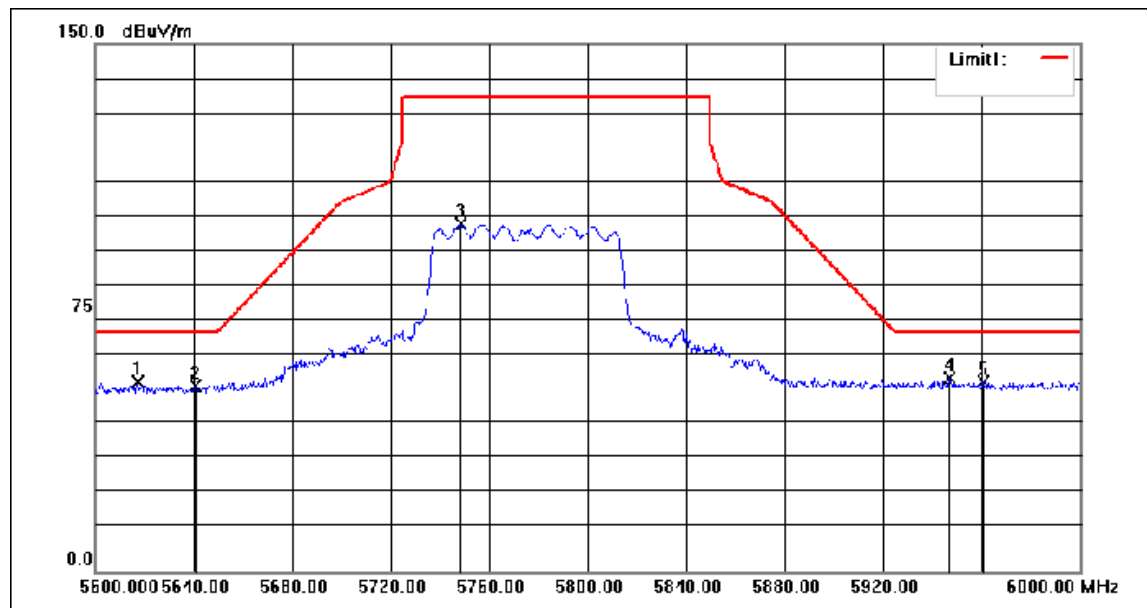
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5617.200	60.55	-6.92	53.63	68.20	-14.57	peak
2	5640.800	59.64	-6.87	52.77	68.20	-15.43	peak
3	5748.400	105.35	-6.59	98.76	135.00	-36.24	peak
4	5946.800	60.50	-5.65	54.85	68.20	-13.35	peak
5	5960.800	59.55	-5.58	53.97	68.20	-14.23	peak

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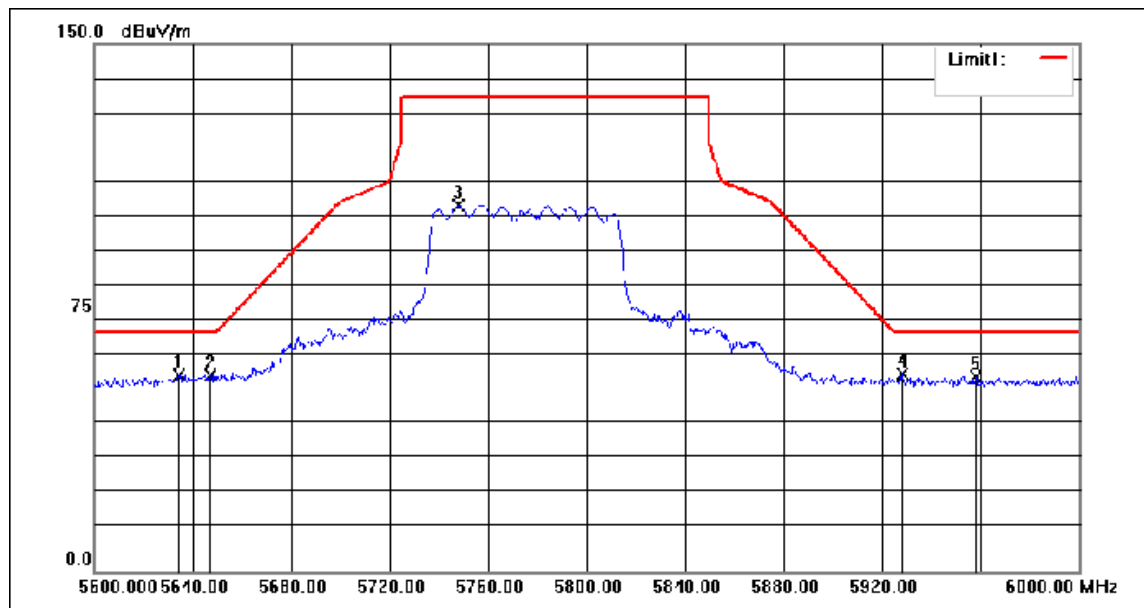
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5634.400	62.56	-6.88	55.68	68.20	-12.52	peak
2	5647.200	62.68	-6.85	55.83	68.20	-12.37	peak
3	5748.000	110.82	-6.59	104.23	135.00	-30.77	peak
4	5928.000	62.01	-5.76	56.25	68.20	-11.95	peak
5	5958.000	60.89	-5.59	55.30	68.20	-12.90	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.

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test mode b: TX mode (Band 1)_Powered by Adapter_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

c: TX mode (Band 2A)_Powered by Adapter_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

d: TX mode (Band 2C)_Powered by Adapter_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

e: TX mode (Band 3)_Powered by Adapter_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



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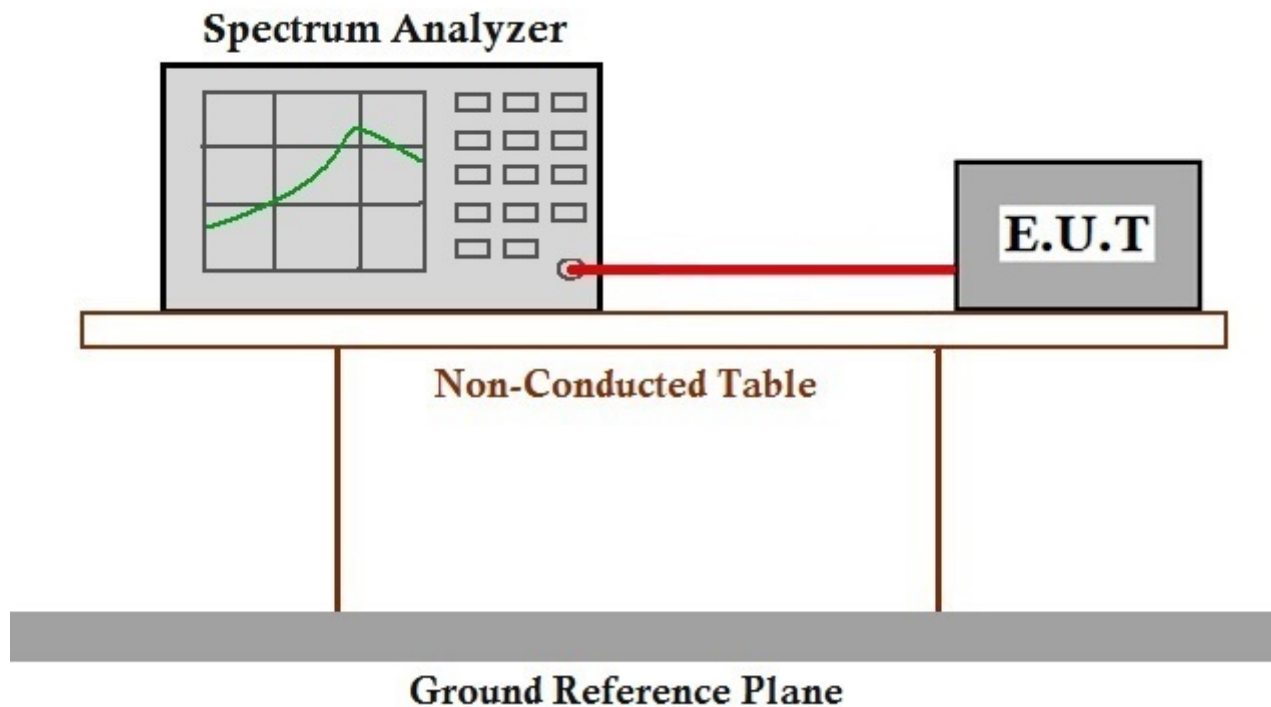
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7.9.2 Test Setup Diagram



7.9.3 Measurement Procedure and Data

The detailed test data see: Appendix A for KSCR210900008601



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7.10 99% Bandwidth

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

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test mode b: TX mode (Band 1)_Powered by Adapter_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

c: TX mode (Band 2A)_Powered by Adapter_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

d: TX mode (Band 2C)_Powered by Adapter_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

e: TX mode (Band 3)_Powered by Adapter_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.



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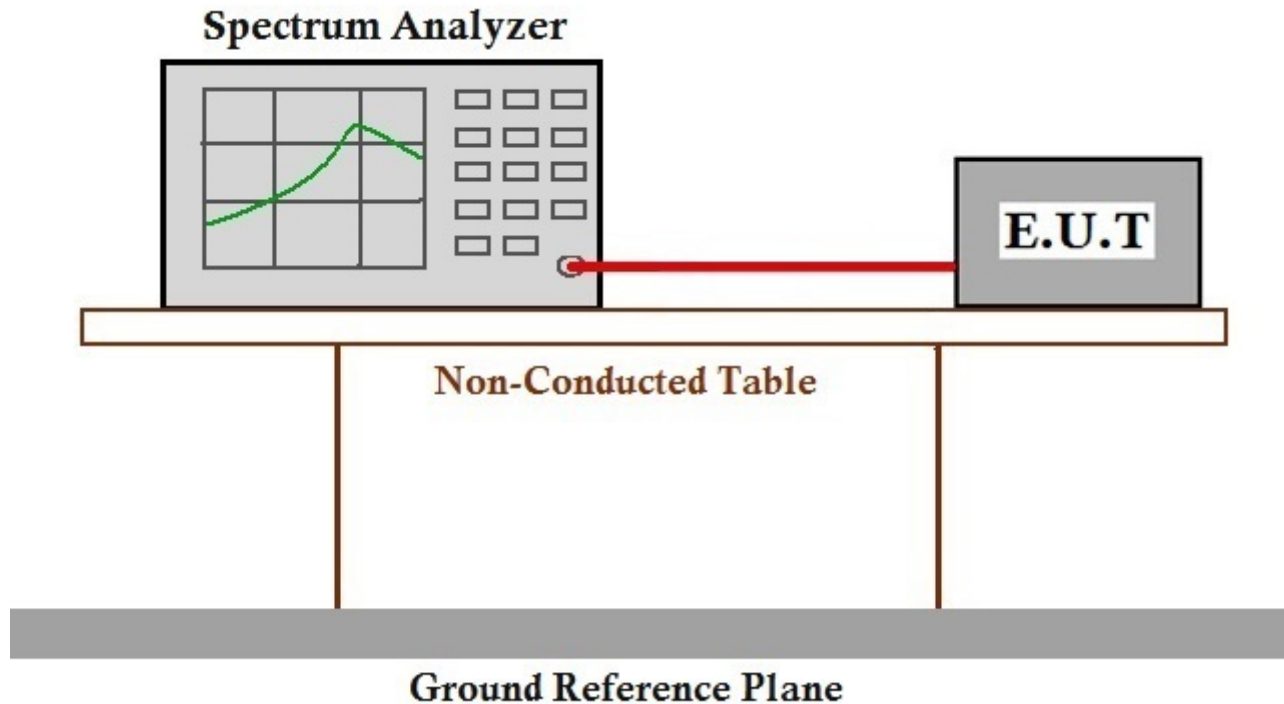
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7.10.2 Test Setup Diagram



7.10.3 Measurement Procedure and Data

The detailed test data see: Appendix A for KSCR210900008601



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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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