FCC 47 CFR PART 15 SUBPART E
ISED RSS-247 ISSUE 2

CERTIFICATION TEST REPORT

For

Camera
MODEL NUMBER: SBDC1

FCC ID: CNFSBDC1
IC: 10193A-SBDC1

REPORT NUMBER: 4788004529.1-4

ISSUE DATE: September 29, 2017

Prepared for

GoPro, Inc.
3000 Clearview Way, San Mateo, CA 94402, USA

Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
--	09/29/2017	Initial Issue	

Summary of Test Results			
Clause	Test Items	FCC/IC Rules	Test Results
1	6/26db Bandwidth	FCC 15.407 (e) RSS-247 Clause 6.2	Complied
2	Maximum Conducted Output Power	FCC 15.407 (a) RSS-247 Clause 6.2	Complied
3	Power Spectral Density	FCC 15.407 (a) RSS-247 Clause 6.2	Complied
4	Antenna Conducted Spurious Emission	FCC 15.407 (b) RSS-247 Clause 6.2	Complied
5	Radiated Bandedge and Spurious Emission	FCC 15.407 (a) FCC 15.209 FCC 15.205 RSS-247 Clause 6.2 RSS-GEN Clause 8.9	Complied
6	Conducted Emission Test For AC Power Port	FCC 15.207 RSS-GEN Clause 8.8	Complied
7	Antenna Requirement	FCC 15.203 RSS-GEN Clause 8.3	Complied
8	Frequency Stability	FCC 15.407 (g)	Complied
9	Dynamic Frequency Selection	FCC 15.407 (h) RSS-247 Clause 6.3	Complied

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name:	GoPro, Inc.
Address:	3000 Clearview Way, San Mateo, CA 94402, USA

Manufacturer Information

Company Name:	GoPro, Inc.
Address:	3000 Clearview Way, San Mateo, CA 94402, USA

Factory Information

Company Name:	Chicony Electronics (Dongguan) Co., Ltd.
Address:	San Zhong Quan Li Qu, Qingxi, Dongguan, Guangdong, China 523651

EUT Name:	Camera
Model:	SBDC1
Sample Status:	Normal
Sample ID:	1018135
Brand:	GoPro
Sample Received:	May 25, 2017
Date of Tested:	May 26, 2017~ August 3, 2017

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
CFR 47 Part 15 Subpart E	Pass
ISED RSS-247 Issue 2	Pass
ISED RSS-GEN Issue 4	Pass

Tested By : 

Leo Liu
Engineer

Check By: 

Shawn Wen
Laboratory Leader

Approved By:

Stephen Guo

Laboratory Manager

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2013, FCC CFR 47 Part 2, FCC CFR 47 Part 15, RSS-GEN Issue 4, and RSS-247 Issue 2.

3. FACILITIES AND ACCREDITATIO

Test Location	Dongguan Dongdian Testing Service Co., Ltd
Address	No. 17, Zongbu Road 2, Songshan Lake Sci&Tech Park, Dongguan City, Guangdong Province, 523808, China
Accreditation Certificate	Dongguan Dongdian Testing Service Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing. Valid time is until January 31, 2018. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 270092, Renewal date March 11, 2015, valid time is until March 11, 2018. The 3m Alternate Test Site of Dongguan Dongdian Testing Service Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 10288A on April 23, 2015, valid time is until April 23, 2018.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognize national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
Occupied Channel Bandwidth	±1%
Uncertainty for radio frequency	1×10-9
RF Output power, conducted	±0.6dB
Power Spectral Density, Conducted	±1.2dB
Unwanted Emissions, Conducted	±0.6dB
Temperature	±0.2℃
Humidity	±1%
DC and Low frequency voltage	±0.5%
Time	±1%
Duty Cycle	±1%
Uncertainty for Radiation Emission test (30MHz-1GHz)	3.14 dB (Polarize: V)
	3.16 dB (Polarize: H)
Uncertainty for Radiation Emission test (1GHz to 40GHz)	2.08dB(Polarize: V)
	2.56dB (Polarize: H)
	4.30dB (26GHz-40Gz)
Uncertainty for Conduction emission test(150KHz-30MHz)	2.44dB
Uncertainty for Radiation Emission test (9KHz-150KHz)	3.89dB
Uncertainty for Radiation Emission test (150KHz-30MHz)	3.21dB

Uncertainty figures are valid to a confidence level of 95%,k=2.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

Equipment	Camera
Model Name	SBDC1
Battery	3.8Vdc,2620mAh,9.95Wh
Power Adapter	N/A

5.2. MAXIMUM OUTPUT POWER

Frequency Range (MHz)	Max Number of Transmit chains (NTX)	IEE Std. 802.11	Frequency (MHz)	Channel Number	Max Power (dBm)	Max EIRP (dBm)
UNII-1	1	a	5150-5250	36-48	9.88	12.88
UNII-2A	1	a	5250-5350	52-64	9.45	N/A
UNII-2C	1	a	5470-5725	100-140	9.56	N/A
UNII-3	1	a	5725-5850	149-165	9.54	N/A
UNII-1	1	n(HT20)	5150-5250	36-48	9.46	12.46
UNII-2A	1	n(HT20)	5250-5350	52-64	9.36	N/A
UNII-2C	1	n(HT20)	5470-5725	100-144	9.41	N/A
UNII-3	1	n(HT20)	5725-5850	149-165	9.75	N/A
UNII-1	1	n(HT40)	5150-5250	38-46	10.56	13.56
UNII-2A	1	n(HT40)	5250-5350	54-62	10.44	N/A
UNII-2C	1	n(HT40)	5470-5725	102-142	10.64	N/A
UNII-3	1	n(HT40)	5725-5850	151-159	10.32	N/A
UNII-1	1	ac(HT20)	5150-5250	36-48	9.57	12.57
UNII-2A	1	ac(HT20)	5250-5350	52-64	9.55	N/A
UNII-2C	1	ac(HT20)	5470-5725	100-144	9.56	N/A
UNII-3	1	ac(HT20)	5725-5850	149-165	9.44	N/A
UNII-1	1	ac(HT40)	5150-5250	38-46	10.63	13.63
UNII-2A	1	ac(HT40)	5250-5350	54-62	10.53	N/A
UNII-2C	1	ac(HT40)	5470-5725	102-142	10.65	N/A
UNII-3	1	ac(HT40)	5725-5850	151-159	10.46	N/A
UNII-1	1	ac(HT80)	5150-5250	42	9.52	12.52
UNII-2A	1	ac(HT80)	5250-5350	58	9.62	N/A
UNII-2C	1	ac(HT80)	5470-5725	106,122	9.31	N/A
UNII-3	1	ac(HT80)	5725-5850	155	9.45	N/A

5.3. CHANNEL LIST

UNII-1		UNII-1		UNII-1	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

UNII-2A		UNII-2A		UNII-2A	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310		
60	5300				
64	5320				

UNII-2C		UNII-2C		UNII-2C	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590		
112	5560	126	5630		
116	5580	134	5670		
132	5660	144	5710		
136	5680				
140	5700				
142	5720				

UNII-3		UNII-3		UNII-3	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

5.4. TEST CHANNEL CONFIGURATION

Pretest Test Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 2	TX N20 Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N40 Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC20 Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC40 Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC80 Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH52, CH60, CH64 (UNII-2A)
Mode 8	TX N20 Mode / CH52, CH60, CH64 (UNII-2A)
Mode 9	TX N40 Mode / CH54, CH62 (UNII-2A)
Mode 10	TX AC20 Mode / CH52, CH60, CH64 (UNII-2A)
Mode 11	TX AC40 Mode / CH54, CH62 (UNII-2A)
Mode 12	TX AC80 Mode / CH58 (UNII-2A)
Mode 13	TX A Mode / CH100, CH116, CH144 (UNII-2C)
Mode 14	TX N20 Mode / CH100, CH116, CH144 (UNII-2C)
Mode 15	TX N40 Mode / CH102, CH110, CH142 (UNII-2C)
Mode 16	TX AC20 Mode / CH100, CH116, CH144 (UNII-2C)
Mode 17	TX AC40 Mode / CH102, CH110, CH142 (UNII-2C)
Mode 18	TX AC80 Mode / CH106, CH122 (UNII-2C)
Mode 19	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 20	TX N20 Mode / CH149,CH157,CH165 (UNII-3)
Mode 21	TX N40 Mode / CH151,CH159 (UNII-3)
Mode 22	TX AC20 Mode / CH149,CH157,CH165 (UNII-3)
Mode 23	TX AC40 Mode / CH151,CH159 (UNII-3)
Mode 24	TX AC80 Mode / CH155 (UNII-3)

5.5. THE WORSE CASE POWER SETTING PARAMETER

UNII-1 / UNII-2A				
Test Software Version	QRCT (V3.0-00230) from QUALCOMM			
Test Mode	Setting TX Power	HT Mode	TX Pattern	TX Power Control
802.11a	11	NO HT_6Mbps	PN7_PATTERN	TXPowerForce_OLPC
	11	NO HT_6Mbps	PN7_PATTERN	TXPowerForce_OLPC
	11	NO HT_6Mbps	PN7_PATTERN	TXPowerForce_OLPC
802.11n HT20	11	HT20_MCS_0_20	PN7_PATTERN	TXPowerForce_OLPC
	11	HT20_MCS_0_20	PN7_PATTERN	TXPowerForce_OLPC
	11	HT20_MCS_0_20	PN7_PATTERN	TXPowerForce_OLPC
802.11n HT40	12	HT40+MCS_0_40	PN7_PATTERN	TXPowerForce_OLPC
	12	HT40+MCS_0_40	PN7_PATTERN	TXPowerForce_OLPC
	12	HT40+MCS_0_40	PN7_PATTERN	TXPowerForce_OLPC
802.11ac HT20	12	VHT20_MCS_0_20	PN7_PATTERN	TXPowerForce_OLPC
	12	VHT20_MCS_0_20	PN7_PATTERN	TXPowerForce_OLPC
	12	VHT20_MCS_0_20	PN7_PATTERN	TXPowerForce_OLPC
802.11ac HT40	12	VHT40+MCS_0_40	PN7_PATTERN	TXPowerForce_OLPC
	12	VHT40+MCS_0_40	PN7_PATTERN	TXPowerForce_OLPC
	12	VHT40+MCS_0_40	PN7_PATTERN	TXPowerForce_OLPC
802.11ac HT80	11	VHT80_1_MCS_0_80	PN7_PATTERN	TXPowerForce_OLPC
	11	VHT80_1_MCS_0_80	PN7_PATTERN	TXPowerForce_OLPC
	11	VHT80_1_MCS_0_80	PN7_PATTERN	TXPowerForce_OLPC

UNII-2C / UNII-3				
Test Software Version	QRCT (V3.0-00230) from QUALCOMM			
Test Mode	Setting TX Power	HT Mode	TX Pattern	TX Power Control
802.11a	12	NO HT_6Mbps	PN7_PATTERN	TXPowerForce_OLPC
	12	NO HT_6Mbps	PN7_PATTERN	TXPowerForce_OLPC
	12	NO HT_6Mbps	PN7_PATTERN	TXPowerForce_OLPC
802.11n HT20	12	HT20_MCS_0_20	PN7_PATTERN	TXPowerForce_OLPC
	12	HT20_MCS_0_20	PN7_PATTERN	TXPowerForce_OLPC
	12	HT20_MCS_0_20	PN7_PATTERN	TXPowerForce_OLPC
802.11n HT40	13	HT40+MCS_0_40	PN7_PATTERN	TXPowerForce_OLPC
	13	HT40+MCS_0_40	PN7_PATTERN	TXPowerForce_OLPC
	13	HT40+MCS_0_40	PN7_PATTERN	TXPowerForce_OLPC
802.11ac HT20	12	VHT20_MCS_0_20	PN7_PATTERN	TXPowerForce_OLPC
	12	VHT20_MCS_0_20	PN7_PATTERN	TXPowerForce_OLPC
	12	VHT20_MCS_0_20	PN7_PATTERN	TXPowerForce_OLPC
802.11ac HT40	13	VHT40+MCS_0_40	PN7_PATTERN	TXPowerForce_OLPC
	13	VHT40+MCS_0_40	PN7_PATTERN	TXPowerForce_OLPC
	13	VHT40+MCS_0_40	PN7_PATTERN	TXPowerForce_OLPC
802.11ac HT80	12	VHT80_1_MCS_0_80	PN7_PATTERN	TXPowerForce_OLPC
	12	VHT80_1_MCS_0_80	PN7_PATTERN	TXPowerForce_OLPC
	12	VHT80_1_MCS_0_80	PN7_PATTERN	TXPowerForce_OLPC

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Ant.	Frequency (MHz)	Antenna Type	Antenna Gain (dBi)
1	5150-5250	FPCB Antenna	3.0
	5250-5350	FPCB Antenna	3.0
	5470-5725	FPCB Antenna	3.0
	5725-5850	FPCB Antenna	3.0

IEE Std. 802.11	Transmit and Receive Mode	Description
a	☒1TX, 1RX	Chain 1 can be used as transmitting/receiving antenna.
n(MCS0-7)	☒1TX, 1RX	Chain 1 can be used as transmitting/receiving antenna.
ac(MCS0-9)	☒1TX, 1RX	Chain 1 can be used as transmitting/receiving antenna.
Note: 1. The EUT supports the diversity function for WLAN. 2. All the modes had been tested but only the worst data in the report.		

5.7. WORST-CASE CONFIGURATIONS

IEE Std. 802.11	Modulation Technology	Modulation Type	Data Rate (Mbps)	Worst Case (Mbps)
a	OFDM	BPSK, QPSK, 16QAM, 64QAM	54/48/36/24/18/12/9/6	6

802.11n HT20/HT40							
Antenna	MCS	Modulation	HT20 Data Rate(Mbps)		HT40 Data Rate(Mbps)		Worst Case (Mbps)
			GI=800ns	GI=400ns	GI=800ns	GI=400ns	
1x1	0	BPSK	6.5	7.2	13.5	15.0	MCS0
	1	QPSK	13.0	14.2	27.0	30.0	MCS0
	2	QPSK	19.5	21.7	40.5	45.0	MCS0
	3	16-QAM	26.0	28.9	54.0	60.0	MCS0
	4	16-QAM	39.0	43.3	81.0	90.0	MCS0
	5	64-QAM	52.0	57.8	108.0	120.0	MCS0
	6	64-QAM	58.5	65.0	121.5	135.0	MCS0
	7	64-QAM	65.0	72.2	135.0	150.0	MCS0

802.11ac HT20/HT40/HT80									
Antenna	MCS	Modulation	HT20 Data Rate (Mbps)		HT40 Data Rate (Mbps)		HT80 Data Rate (Mbps)		Worst Case (Mbps)
			GI=800ns	GI=400ns	GI=800ns	GI=400ns	GI=800ns	GI=400ns	
1x1	0	BPSK	6.5	7.2	13.5	15	29.3	32.5	MCS0
	1	QPSK	13	14.4	27	30	58.5	65	MCS0
	2	QPSK	19.5	21.7	40.5	45	87.8	97.5	MCS0
	3	16-QAM	26	28.9	54	60	117	130	MCS0
	4	16-QAM	39	43.3	81	90	175.5	195	MCS0
	5	64-QAM	52	57.8	108	120	234	260	MCS0
	6	64-QAM	58.5	65	121.5	135	263.3	292.5	MCS0
	7	64-QAM	65	72.2	135	150	292.5	325	MCS0
	8	256-QAM	78	86.7	162	180	351	390	MCS0
	9	256-QAM	N/A	N/A	180	200	390	433.3	MCS0

5.8. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	P/N
1	Laptop	ThinkPad	T460S	SL10K24796 JS

I/O CABLES

able No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	USB	USB Type C	shielded	0.55	N/A

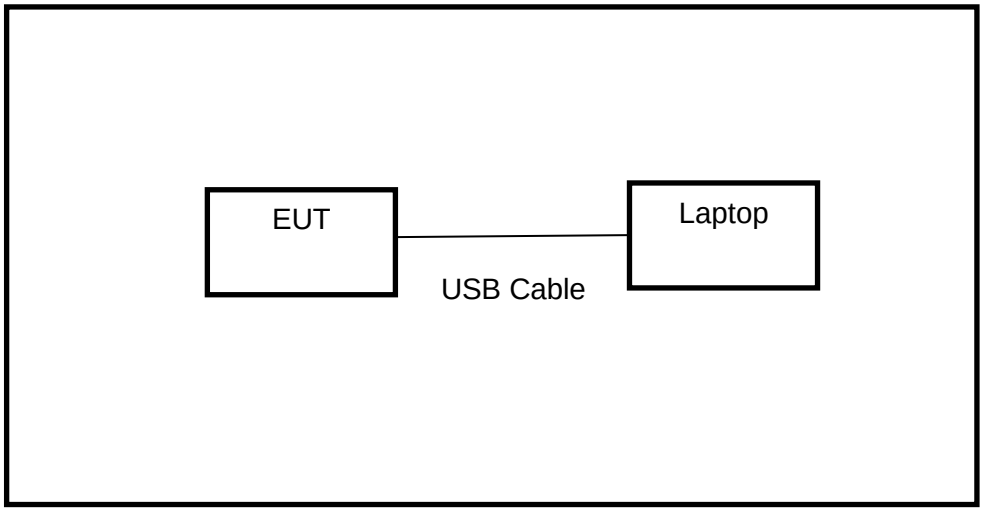
ACCESSORY

Item	Accessory	Brand Name	Model Name	Description
1	N/A	N/A	N/A	N/A

TEST SETUP

The EUT can work in engineering mode with firmware QRCT from QUALCOMM through a Laptop.

SETUP DIAGRAM FOR TEST



5.9. MEASURING INSTRUMENT AND SOFTWARE USED

Instrument(Conducted for RF Port)						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Expired date
☑	Spectrum Analyzer	R&S	FSV40	101117	Dec.30,2016	Dec.29,2017
☑	Receiver Cable (30MHz-40GHz)	JUNFLON	J12J102248-00-B-5	AUG-07-15-043	Jan.18,2017	Jan.18,2018
c☑	Power sensor, Power Meter	R&S	OSP120	100921	Dec.20,2016	Dec.19,2017
Instrument (Line Conducted Emission (AC Main))						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Expired date
☑	EMI Test Receiver	R&S	ESCI	101247	Nov.3,2016	Nov.3,2017
☑	V-Network	R&S	ESH3-Z6	100211	Nov.3,2016	Nov.3,2017
☑	V-Network	R&S	ESH3-Z6	100210	Nov.3,2016	Nov.3,2017
☑	Pulse Limiter	R&S	ESH3-Z2	101488	Nov.3,2016	Nov.3,2017
☑	Test Software	R&S	ES-K1	N/A	N/A	N/A
Instrument (Radiated Tests)						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Expired date
☑	EMI Test Receiver	R&S	ESI 26	100009	Nov.2,2016	Nov.2,2017
☑	RF Test Panel	R&S	TS / RSP	335015/ 0017	N/A	N/A
☑	EMI Test Software	R&S	ESK1	N/A	N/A	N/A
☑	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	538	Nov.8,2016	Nov.8,2017
☑	Horn Antenna	ShwarzBeck	9120D	1011	Nov.8,2016	Nov.8,2017
☑	High Gain Horn Antenna	ShwarzBeck	BBHA-9170	697	Jan.6,2016	Jan.5,2019
☑	Loop Antenna	R&S	HZ-9	838622\013	Nov.8,2016	Nov.8,2017
☑	Broadband Horn Antenna	ShwarzBeck	BBHA9170	BBHA9170472	Nov.8,2016	Nov.8,2017
☑	Broadband Preamplifer	ShwarzBeck	BBV 9718	9718-247	Nov.2,2016	Nov.2,2017
☑	Broadband Preamplifer	ShwarzBeck	BBV 9721	9721-102	Nov.2,2016	Nov.2,2017
☑	Preamplifer	TDK	PA-02-3	TRS-308-00002	Dec.21,2016	Dec.20,2017
☑	Antenna Mast	MATURO	TAM-4.0-P	----	N/A	N/A
☑	EMI Test Software	Audix	E3	N/A	N/A	N/A

6. ANTENNA PORT TEST RESULTS

6.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

RESULTS

Mode	ON Time (ms)	Period (ms)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (KHz)
802.11a	2.042	2.133	0.957	95.7	0.19	0.49
802.11n HT20	1.902	1.998	0.952	95.2	0.21	0.53
802.11n HT40	0.933	1.023	0.912	91.2	0.40	1.07
802.11ac HT20	1.919	2.003	0.958	95.8	0.19	0.52
802.11ac HT40	0.940	1.028	0.914	91.4	0.39	1.06
802.11ac HT80	0.455	0.545	0.835	83.5	0.78	2.20

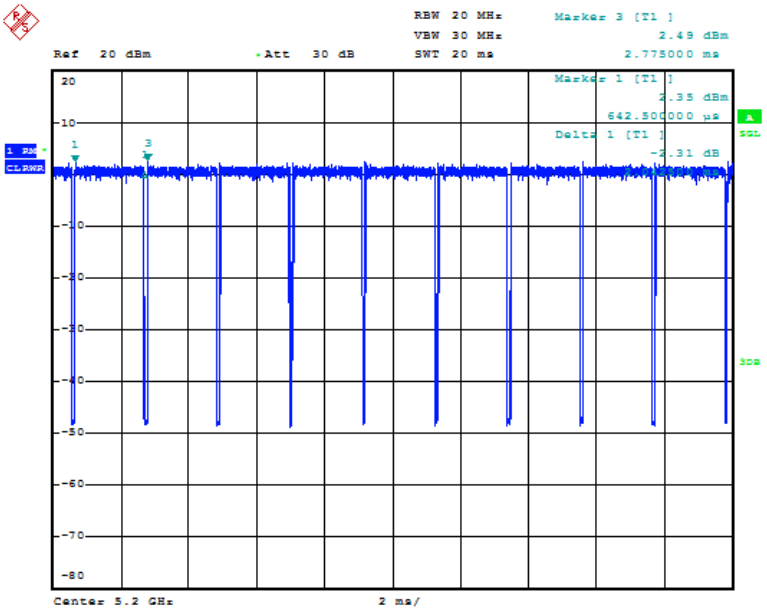
Note: Duty Cycle Correction Factor=10log(1/x).
Where: x is Duty Cycle(Linear)

TEST CONDITIONS

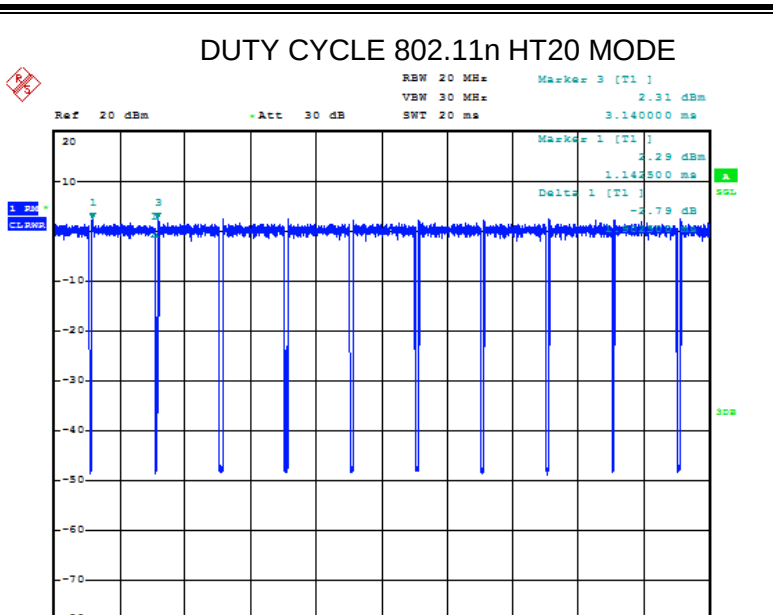
Temperature: 25.6°C
Relative Humidity: 59%
Test Voltage: 3.8Vdc

DUTY CYCLE PLOTS

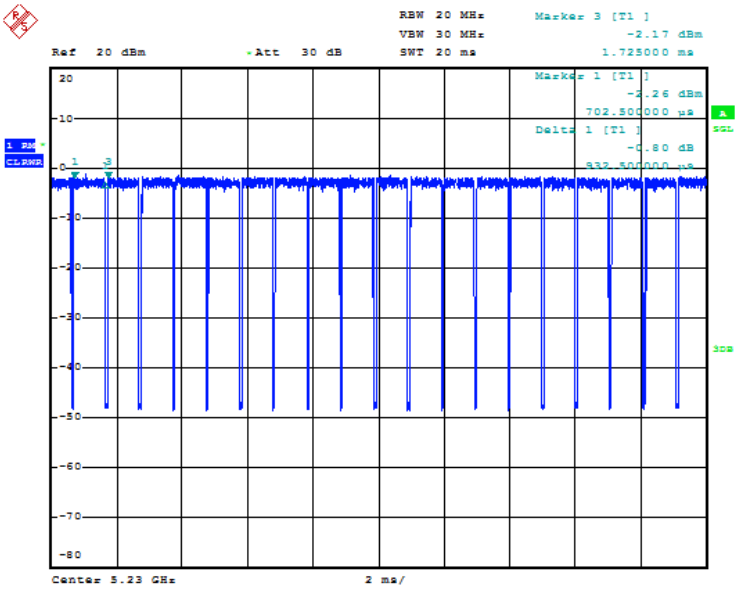
DUTY CYCLE 802.11a MODE



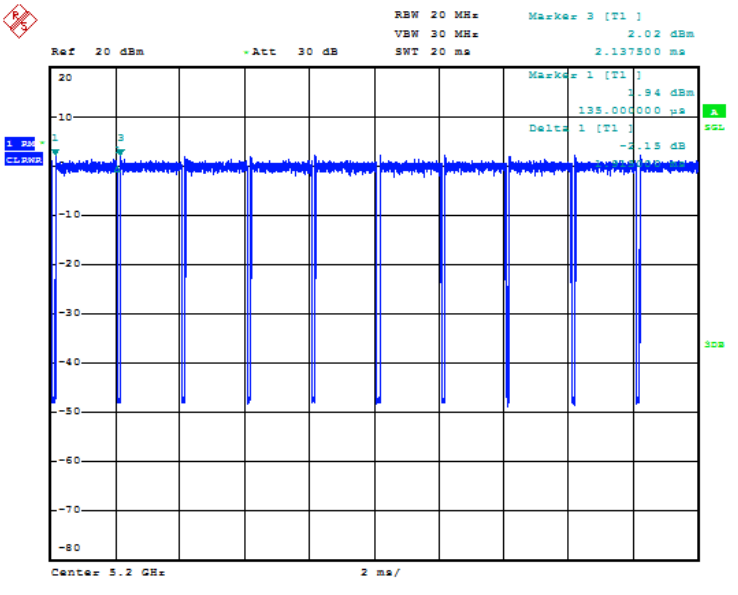
DUTY CYCLE 802.11n HT20 MODE



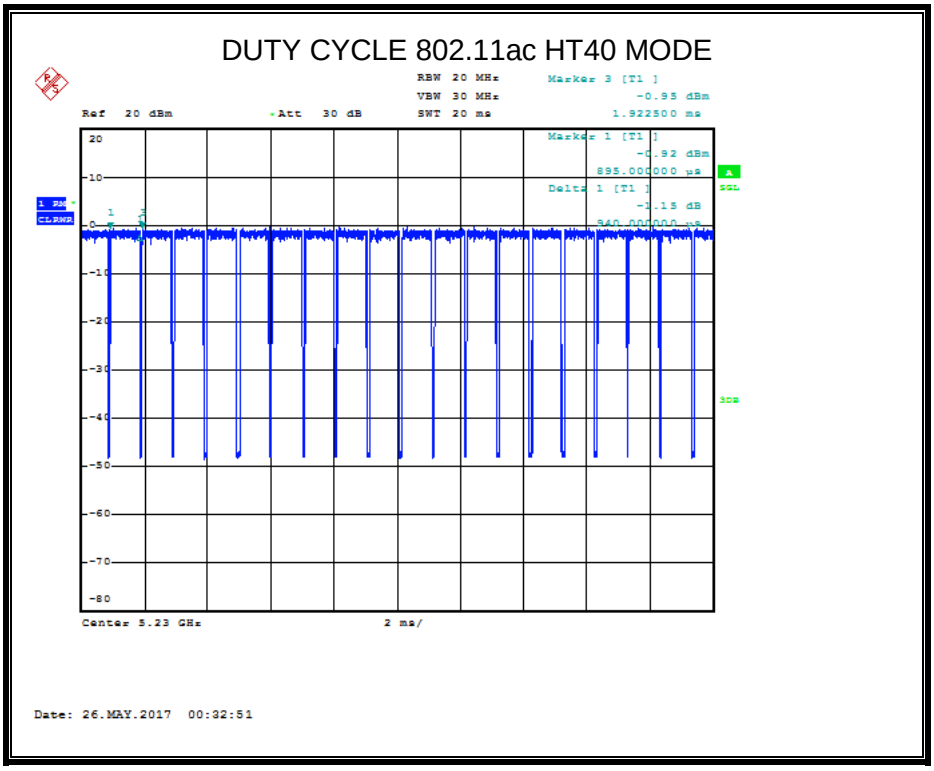
DUTY CYCLE 802.11n HT40 MODE



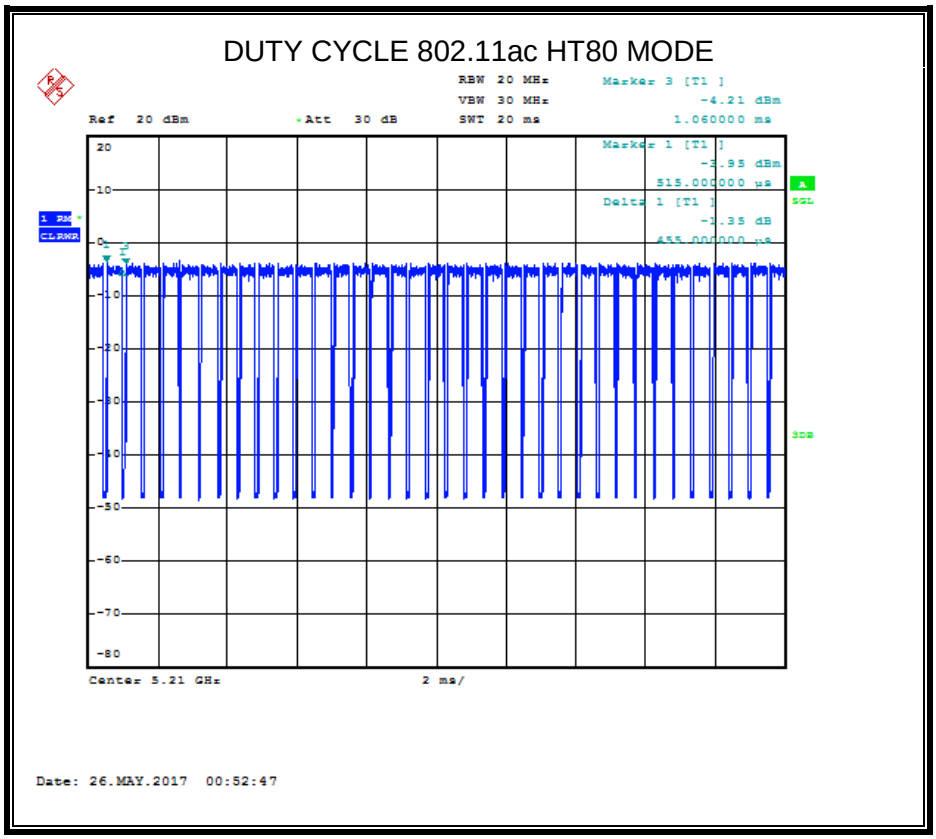
DUTY CYCLE 802.11ac HT20 MODE



DUTY CYCLE 802.11ac HT40 MODE



DUTY CYCLE 802.11ac HT80 MODE



6.2. 6/26 dB BANDWIDTH

LIMITS

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
Bandwidth	26 dB Bandwidth	5150-5250
	26 dB Bandwidth	5250-5350
	26 dB Bandwidth	For FCC:5470-5725 For IC:5470-5600 5650-5725
	Minimum 500kHz 6dB Bandwidth	5725-5850

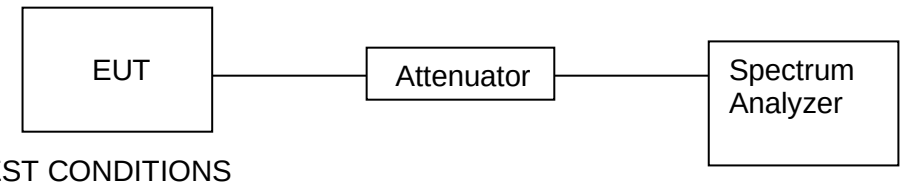
TEST PROCEDURE

Connect the UUT to the spectrum analyser and use the following settings:

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	For 6dB Bandwidth: RBW=100kHz For 26dB Bandwidth: approximately 1% of the emission bandwidth.
VBW	For 6dB Bandwidth : VBW=300kHz For 26dB Bandwidth : >3RBW
Trace	Max hold
Sweep	Auto couple

Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6/26 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP



TEST CONDITIONS

Temperature: 25.6°C
Relative Humidity: 59%
Test Voltage: 3.8Vdc

RESULTS

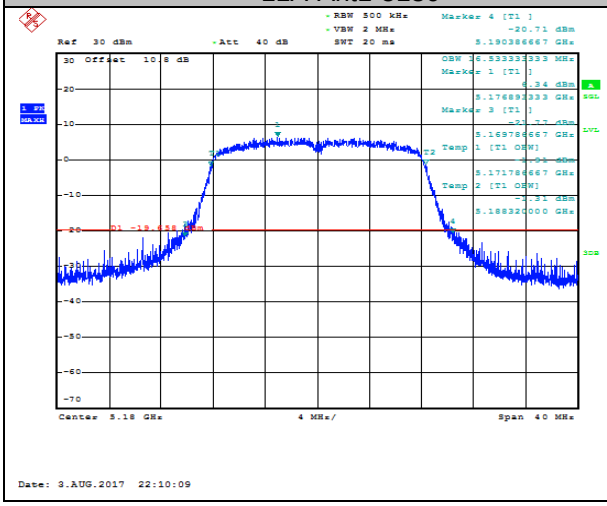
6.2.1. 802.11a MODE

Result Table

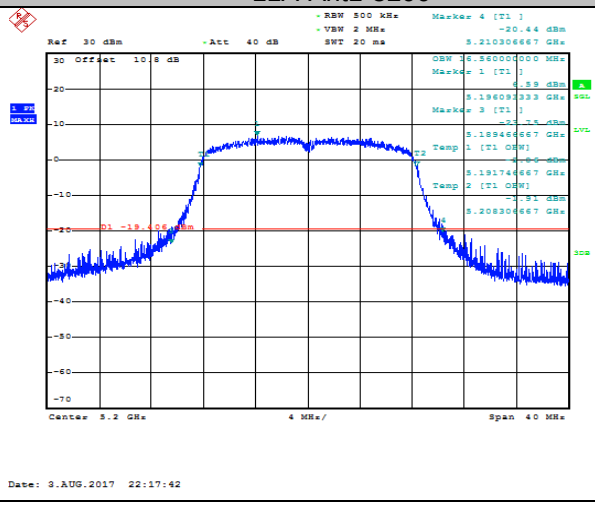
Test Mode	Antenna	Channel	EBW[MHz]	OBW[MHz]	Verdict
11A	Ant1	5180	20.600	16.533	PASS
11A	Ant1	5200	20.840	16.560	PASS
11A	Ant1	5240	20.907	16.560	PASS
11A	Ant1	5260	21.267	16.547	PASS
11A	Ant1	5280	20.667	16.533	PASS
11A	Ant1	5320	20.280	16.520	PASS
11A	Ant1	5500	20.827	16.520	PASS
11A	Ant1	5580	20.747	16.533	PASS
11A	Ant1	5700	20.693	16.587	PASS
11A	Ant1	5720	15.166	16.267	PASS
11A	Ant1	5745	15.385	16.280	PASS
11A	Ant1	5785	15.255	16.285	PASS
11A	Ant1	5825	15.300	16.285	PASS

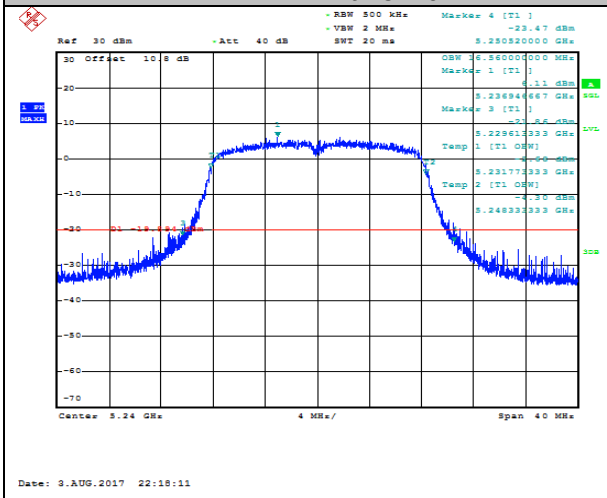
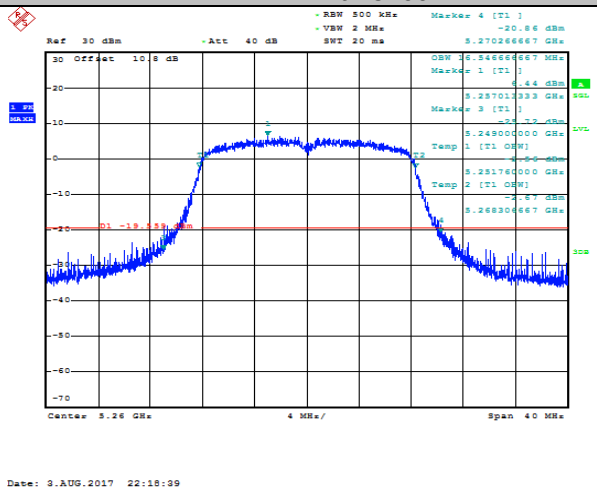
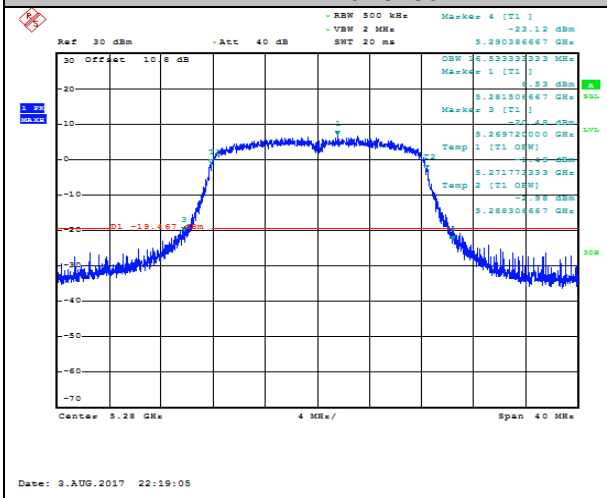
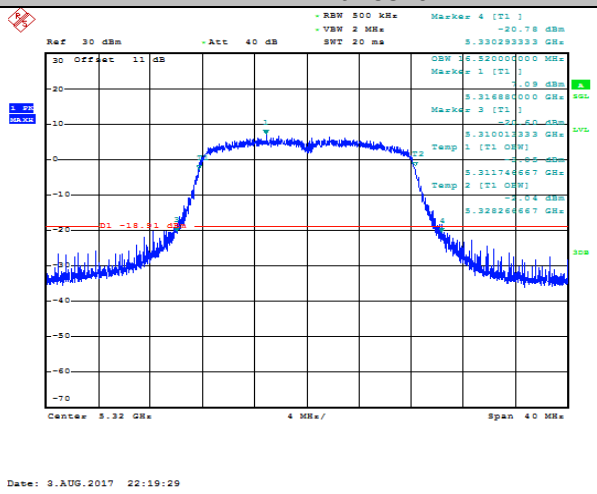
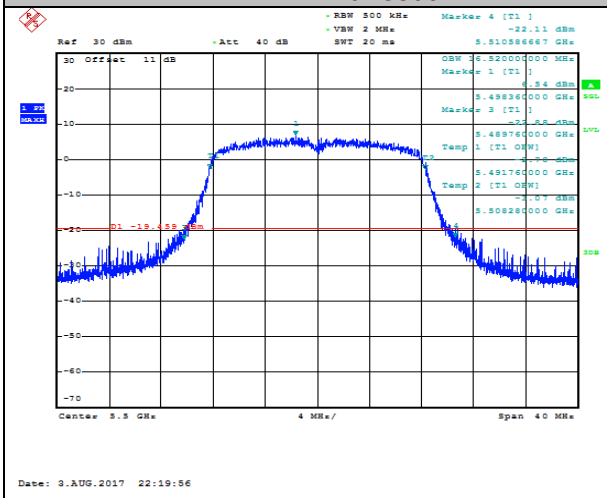
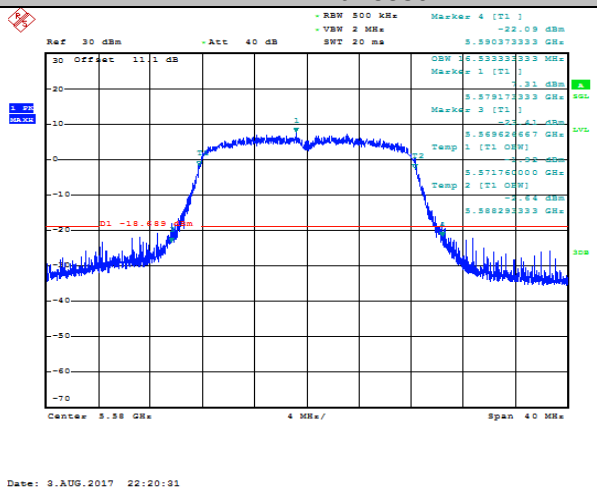
Test Graph

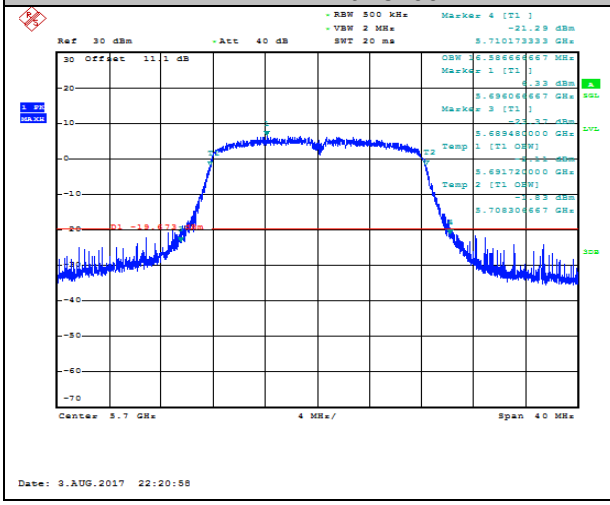
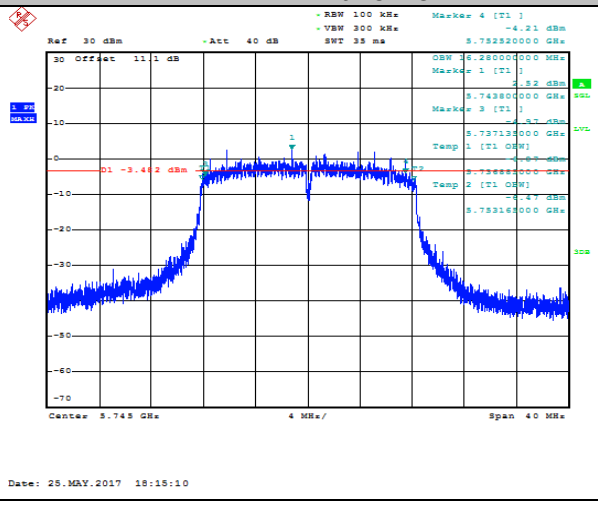
11A-Ant1-5180

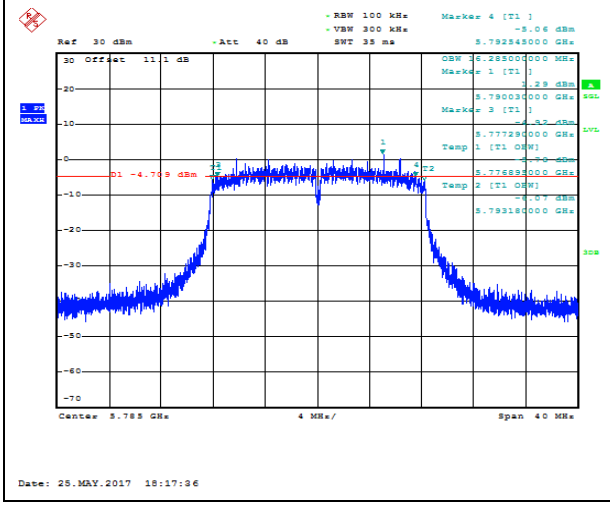
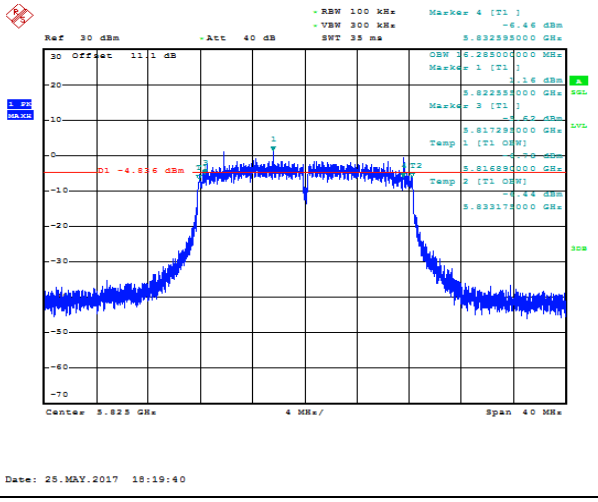


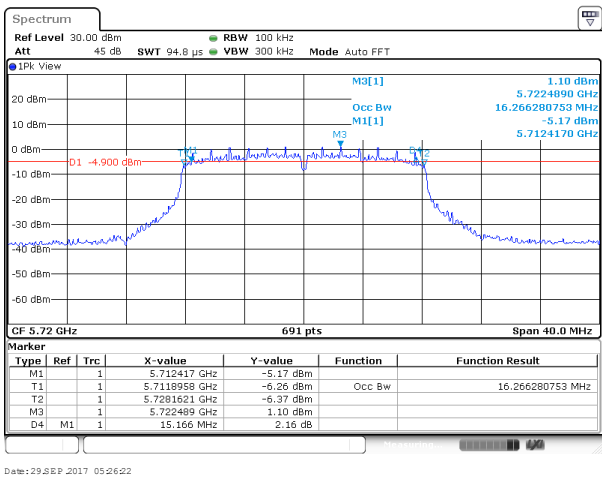
11A-Ant1-5200



11A-Ant1-5240	11A-Ant1-5260
	
11A-Ant1-5280	11A-Ant1-5320
	
11A-Ant1-5500	11A-Ant1-5580
	

11A-Ant1-5700	11A-Ant1-5745
	

11A-Ant1-5785	11A-Ant1-5825
	

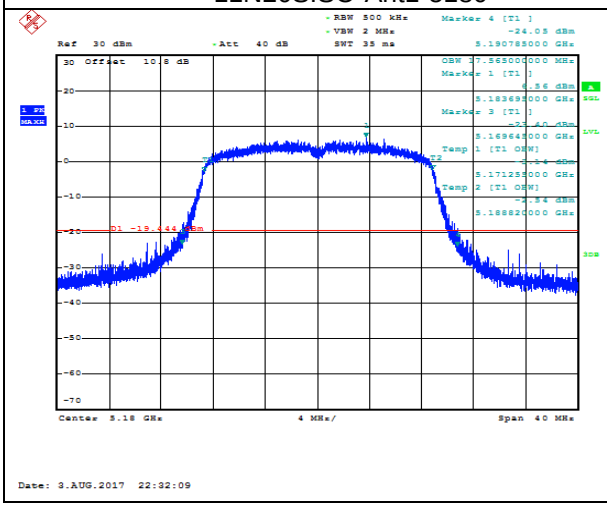
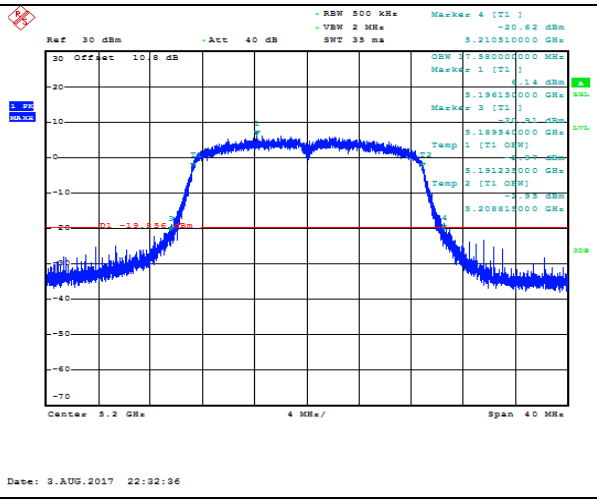
11A-Ant1-5720	
	

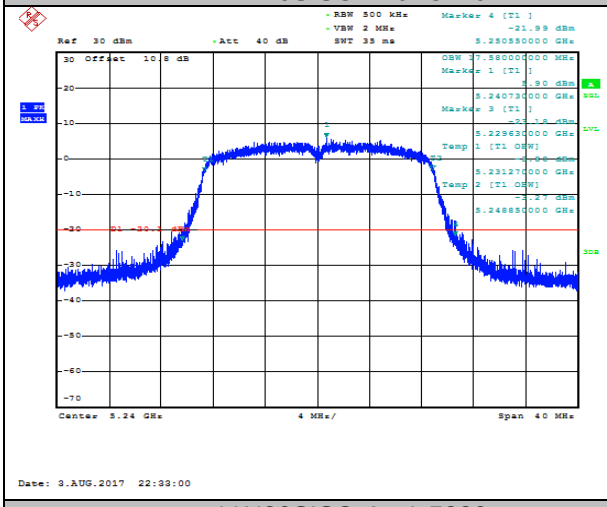
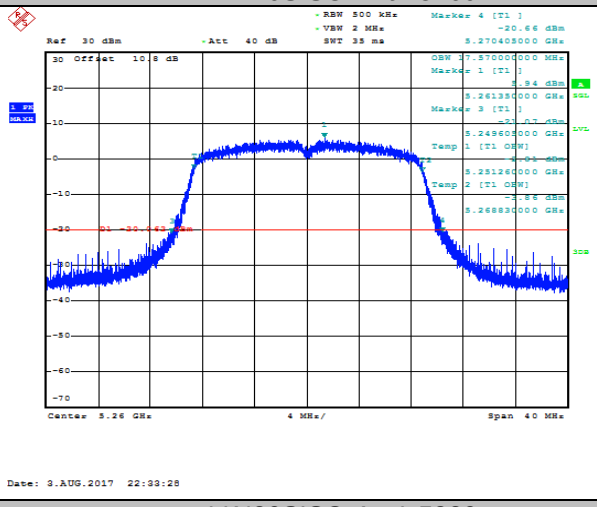
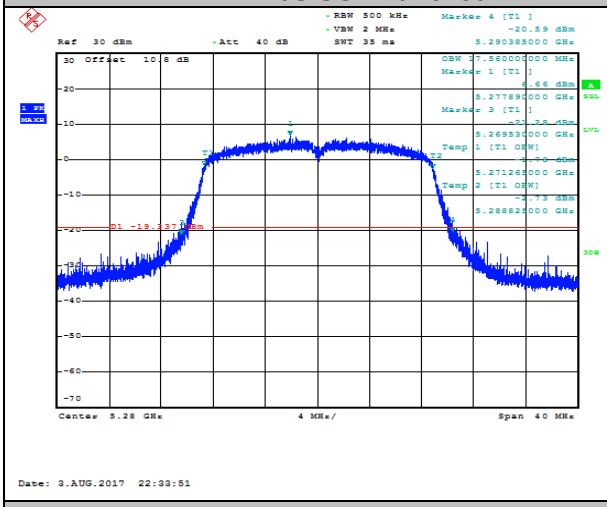
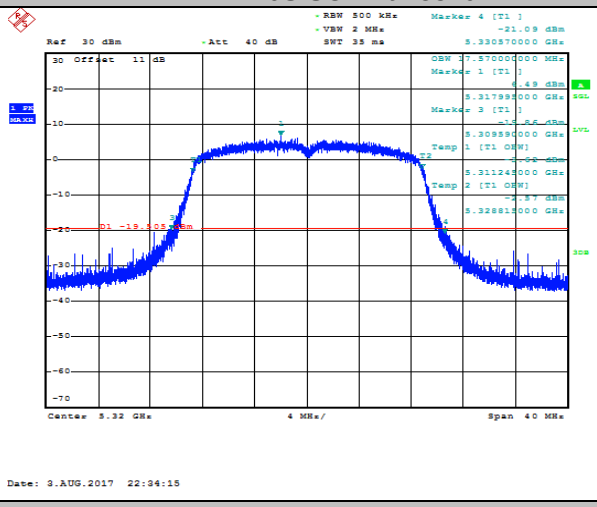
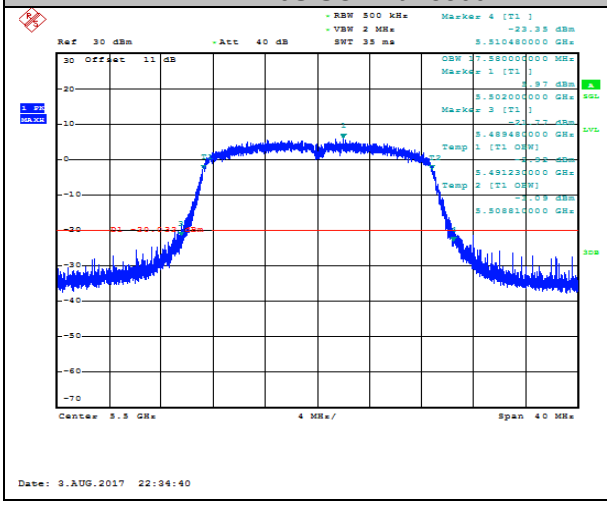
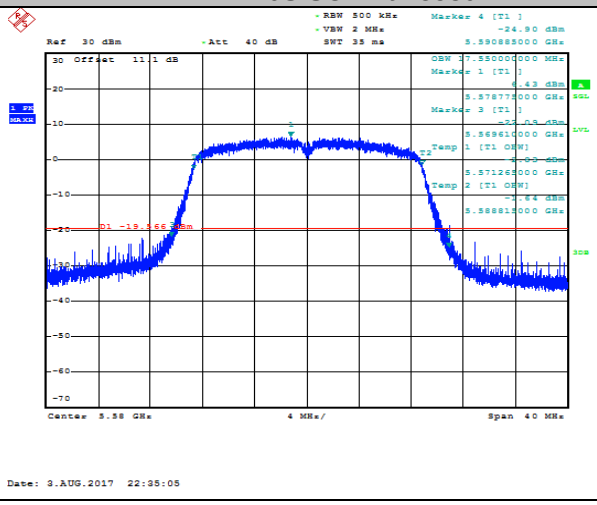
6.2.2. 802.11n HT 20 MODE

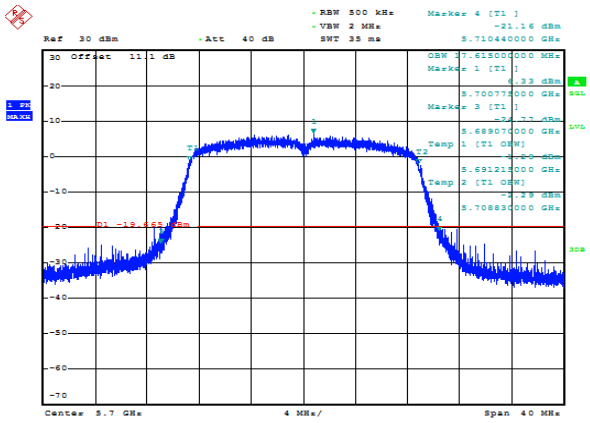
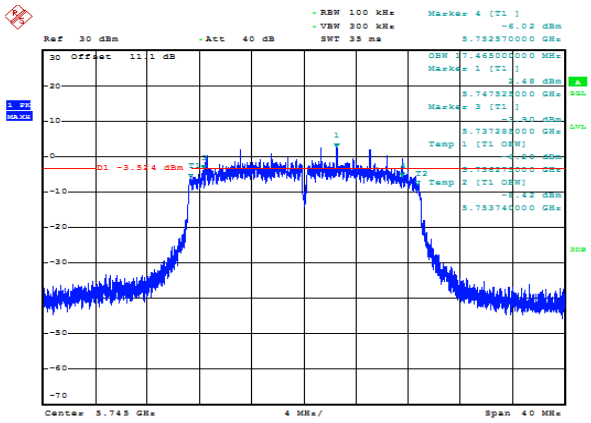
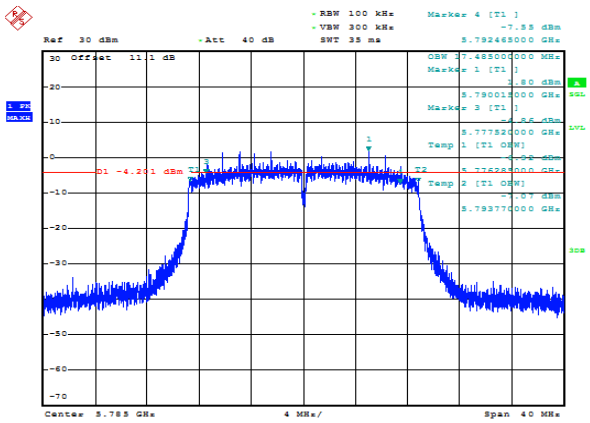
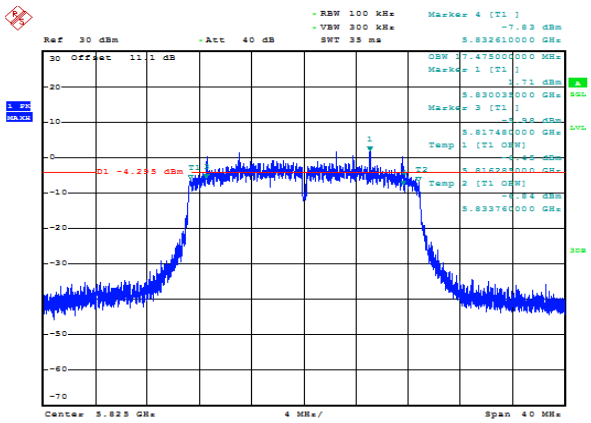
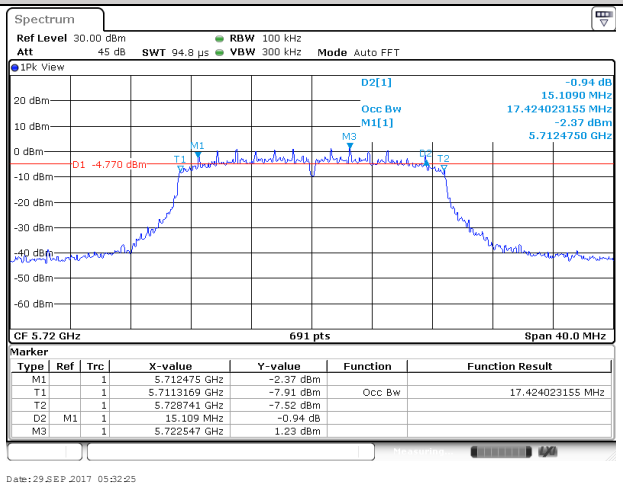
Result Table

Test Mode	Antenna	Channel	EBW[MHz]	OBW[MHz]	Verdict
11N20	Ant1	5180	21.140	17.565	PASS
11N20	Ant1	5200	20.970	17.580	PASS
11N20	Ant1	5240	20.920	17.580	PASS
11N20	Ant1	5260	20.800	17.570	PASS
11N20	Ant1	5280	20.855	17.560	PASS
11N20	Ant1	5320	20.980	17.570	PASS
11N20	Ant1	5500	21.000	17.580	PASS
11N20	Ant1	5580	21.275	17.550	PASS
11N20	Ant1	5700	21.370	17.615	PASS
11N20	Ant1	5720	15.109	17.424	PASS
11N20	Ant1	5745	15.285	17.465	PASS
11N20	Ant1	5785	14.945	17.485	PASS
11N20	Ant1	5825	15.130	17.475	PASS

Test Graph

11N20SISO-Ant1-5180	11N20SISO-Ant1-5200
	

11N20SISO-Ant1-5240	11N20SISO-Ant1-5260
	
11N20SISO-Ant1-5280	11N20SISO-Ant1-5320
	
11N20SISO-Ant1-5500	11N20SISO-Ant1-5580
	

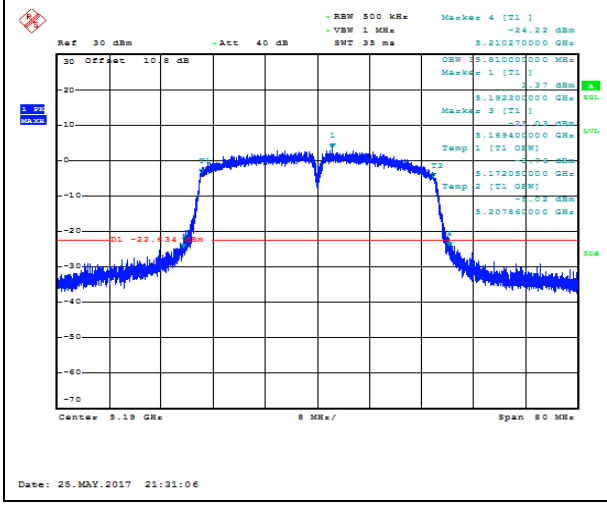
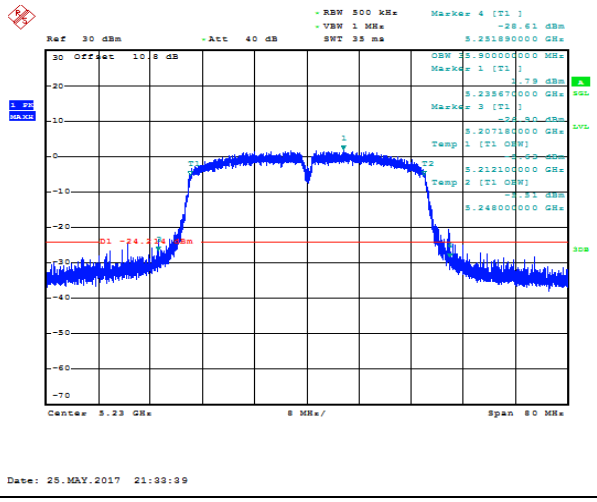
11N20SISO-Ant1-5700	11N20SISO-Ant1-5745
	
11N20SISO-Ant1-5785	11N20SISO-Ant1-5825
	
11N20SISO-Ant1-5720	
	

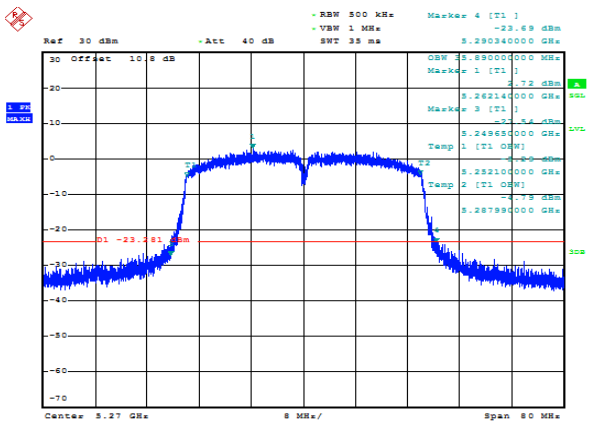
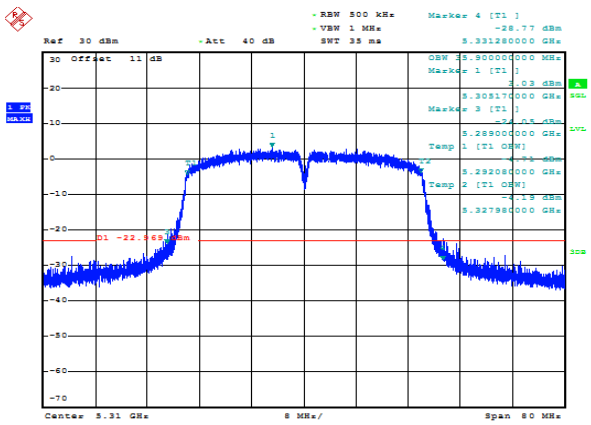
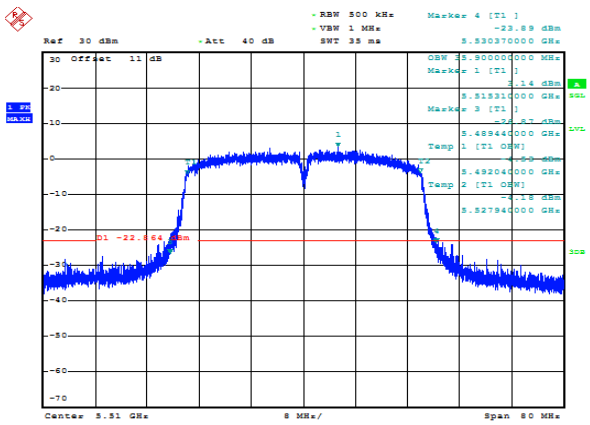
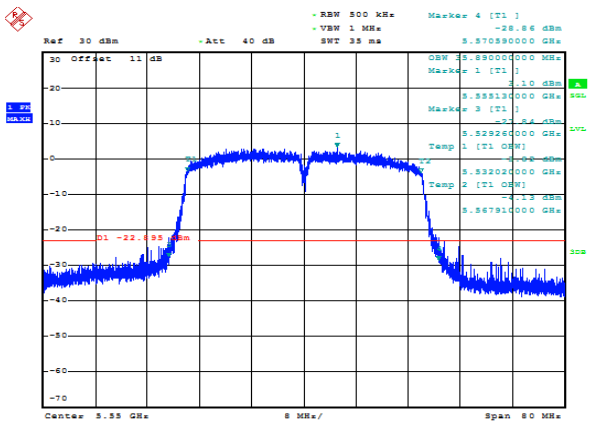
6.2.3. 802.11n HT40 MODE

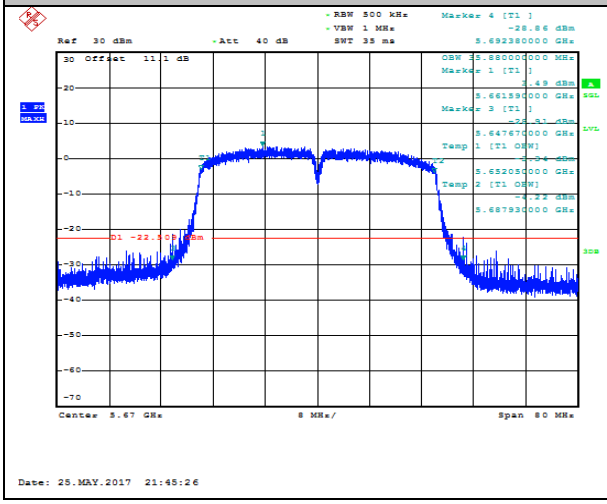
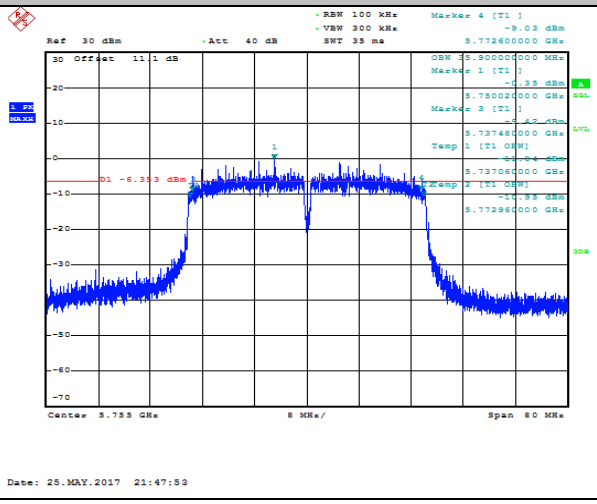
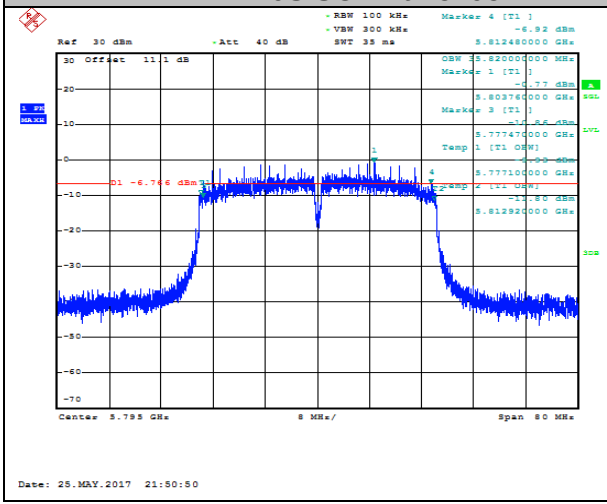
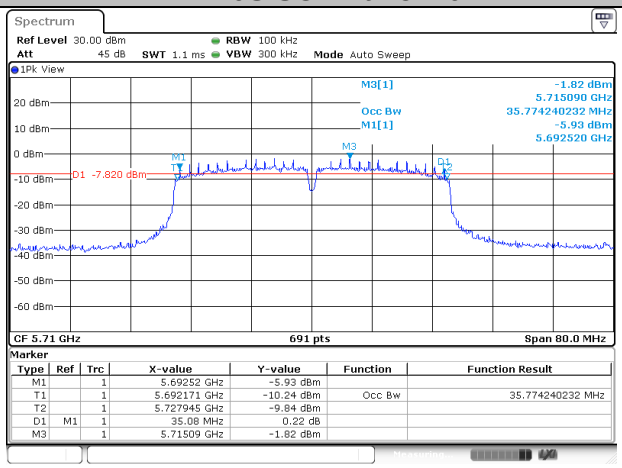
Result Table

Test Mode	Antenna	Channel	EBW[MHz]	OBW[MHz]	Verdict
11N40	Ant1	5190	40.870	35.810	PASS
11N40	Ant1	5230	44.710	35.900	PASS
11N40	Ant1	5270	40.690	35.890	PASS
11N40	Ant1	5310	42.280	35.900	PASS
11N40	Ant1	5510	40.930	35.900	PASS
11N40	Ant1	5550	41.330	35.890	PASS
11N40	Ant1	5670	44.710	35.880	PASS
11N40	Ant1	5710	35.080	35.774	PASS
11N40	Ant1	5755	35.120	35.900	PASS
11N40	Ant1	5795	35.010	35.820	PASS

Test Graph

11N40SISO-Ant1-5190	11N40SISO-Ant1-5230
	

11N40SISO-Ant1-5270	11N40SISO-Ant1-5310
	
11N40SISO-Ant1-5510	11N40SISO-Ant1-5550
	

11N40SISO-Ant1-5670	11N40SISO-Ant1-5755
	
11N40SISO-Ant1-5795	11N40SISO-Ant1-5710
	

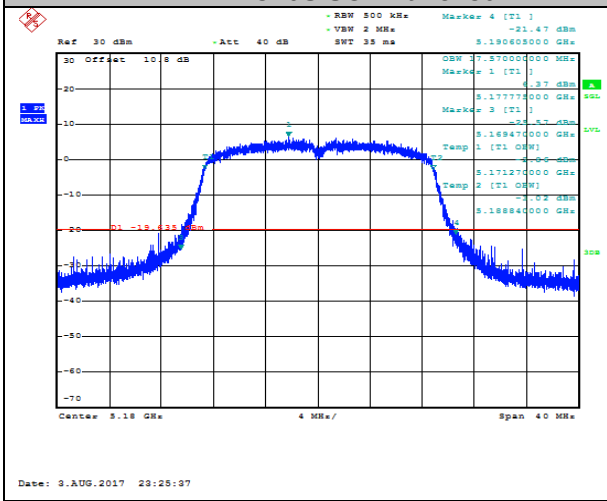
6.2.4. 802.11ac HT20 MODE

Result Table

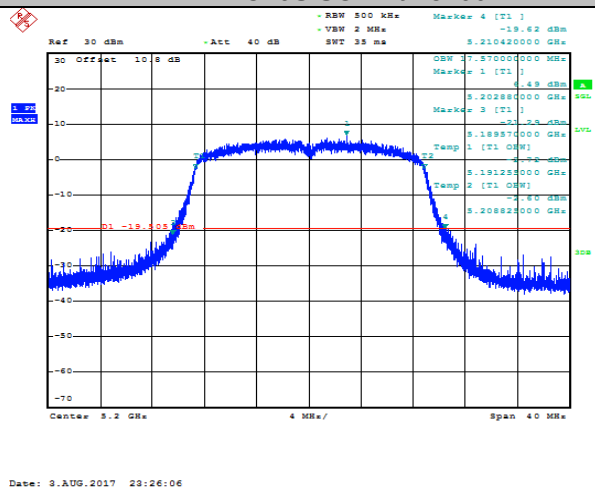
Test Mode	Antenna	Channel	EBW[MHz]	OBW[MHz]	Verdict
11AC	Ant1	5180	21.135	17.570	PASS
11AC	Ant1	5200	20.850	17.570	PASS
11AC	Ant1	5240	21.050	17.575	PASS
11AC	Ant1	5260	21.000	17.570	PASS
11AC	Ant1	5280	20.955	17.575	PASS
11AC	Ant1	5320	21.220	17.570	PASS
11AC	Ant1	5500	20.965	17.580	PASS
11AC	Ant1	5580	20.940	17.545	PASS
11AC	Ant1	5700	21.170	17.615	PASS
11AC	Ant1	5720	15.282	17.424	PASS
11AC	Ant1	5745	15.460	17.450	PASS
11AC	Ant1	5785	15.085	17.440	PASS
11AC	Ant1	5825	14.125	17.475	PASS

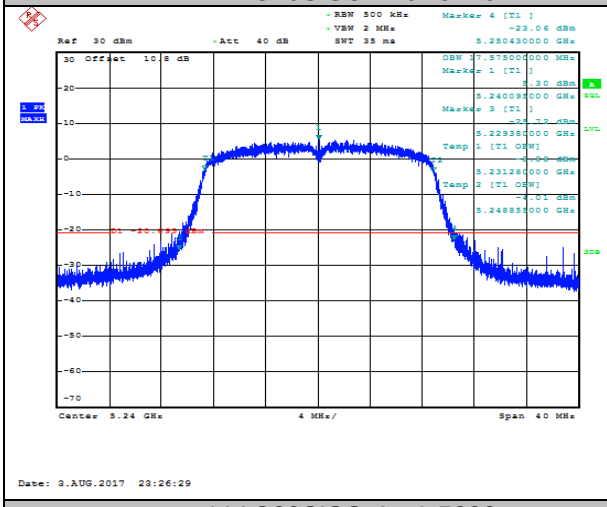
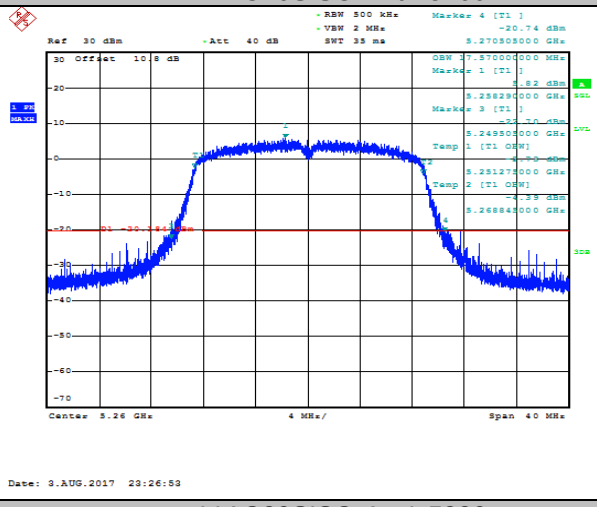
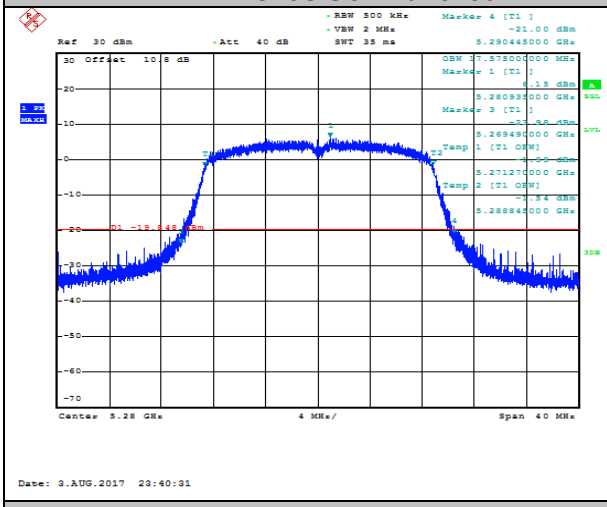
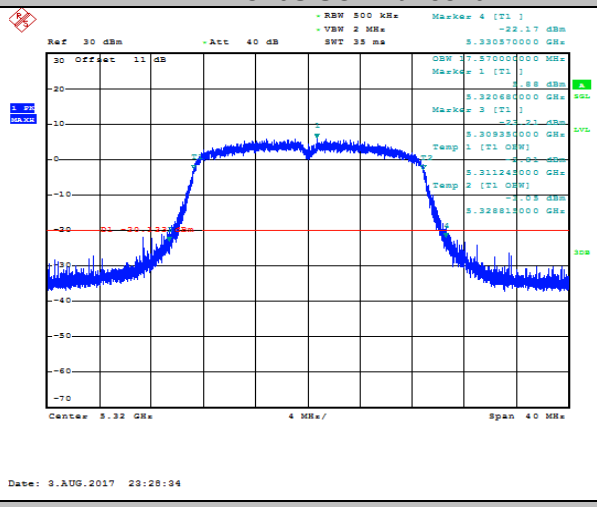
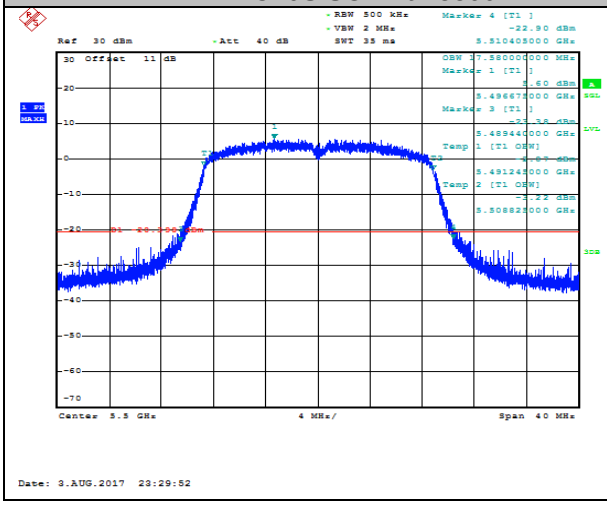
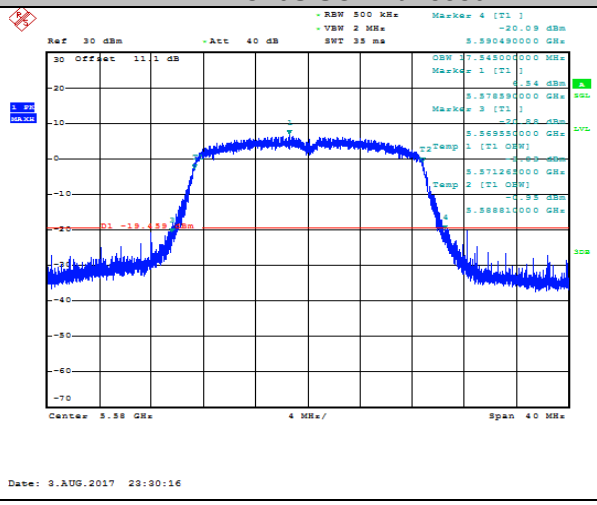
Test Graph

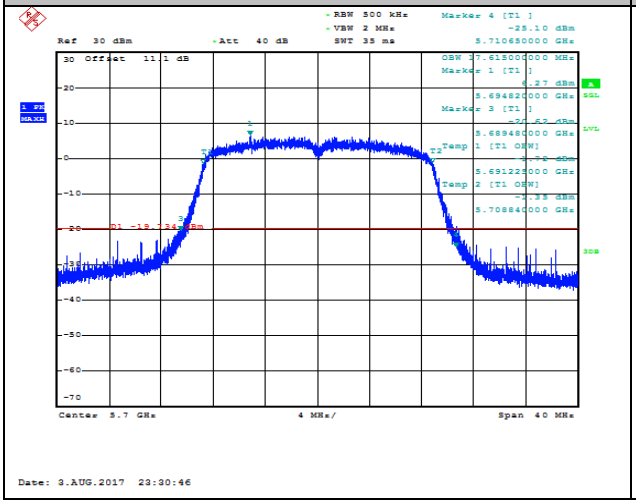
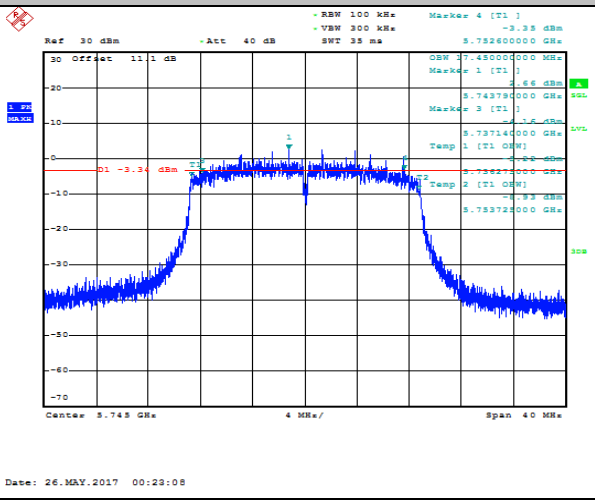
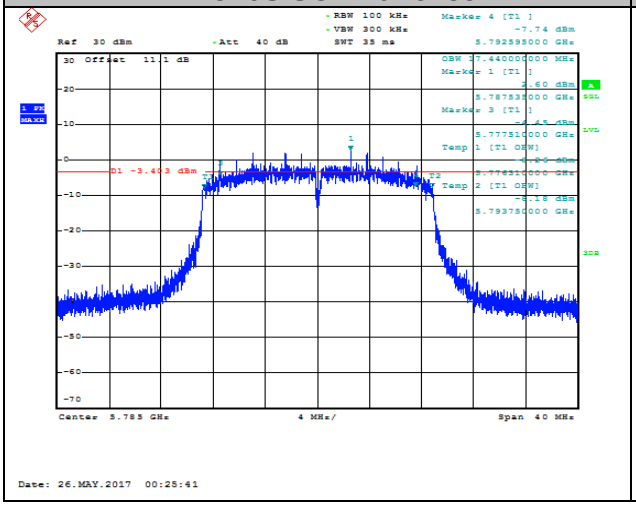
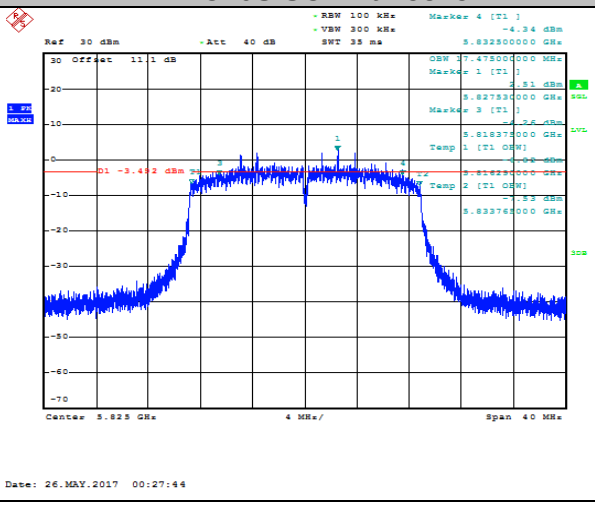
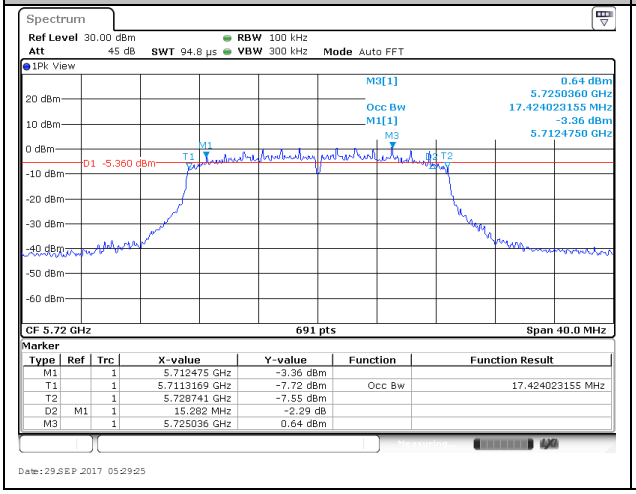
11AC20SISO-Ant1-5180



11AC20SISO-Ant1-5200



11AC20SISO-Ant1-5240	11AC20SISO-Ant1-5260
	
11AC20SISO-Ant1-5280	11AC20SISO-Ant1-5320
	
11AC20SISO-Ant1-5500	11AC20SISO-Ant1-5580
	

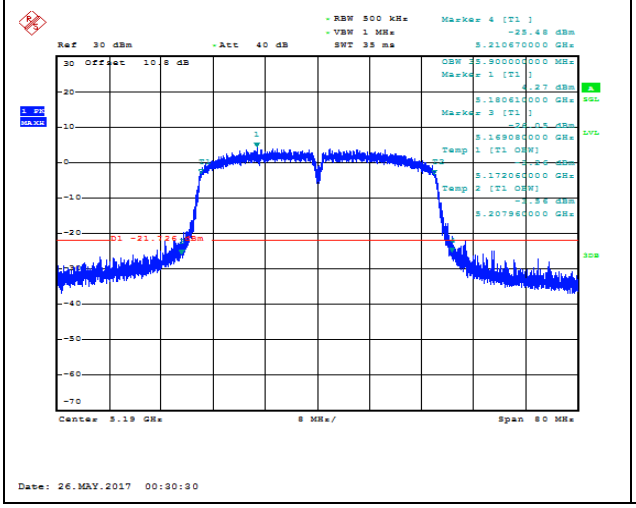
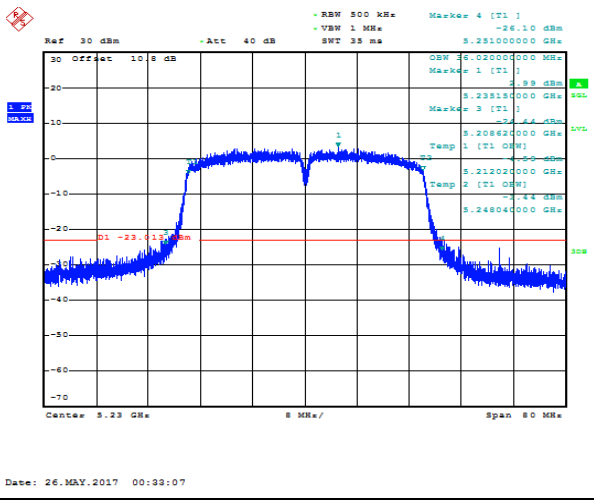
11AC20SISO-Ant1-5700	11AC20SISO-Ant1-5745
	
	
	

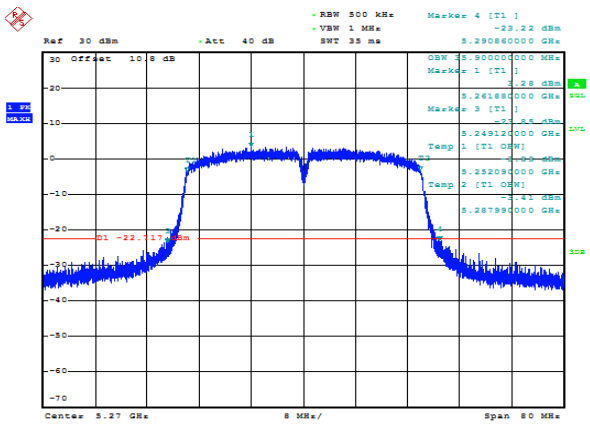
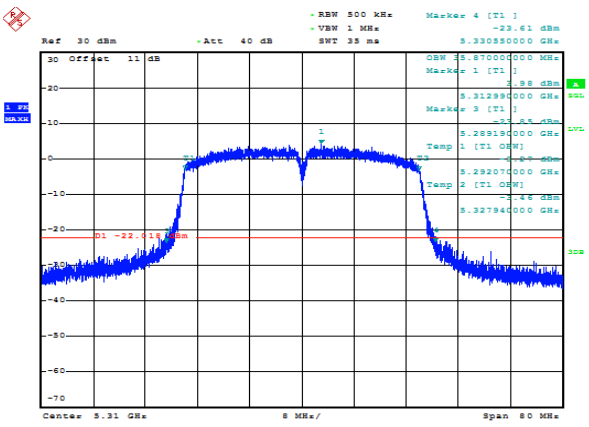
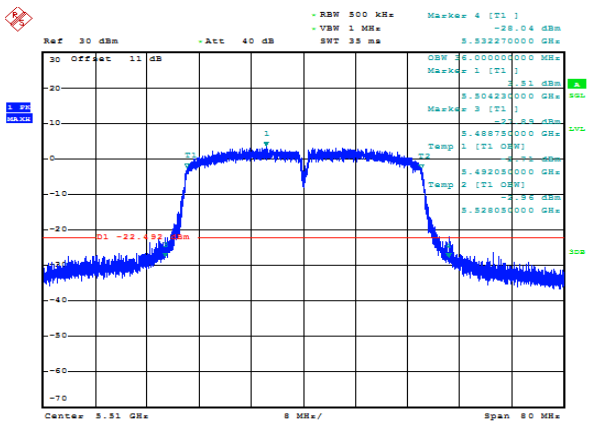
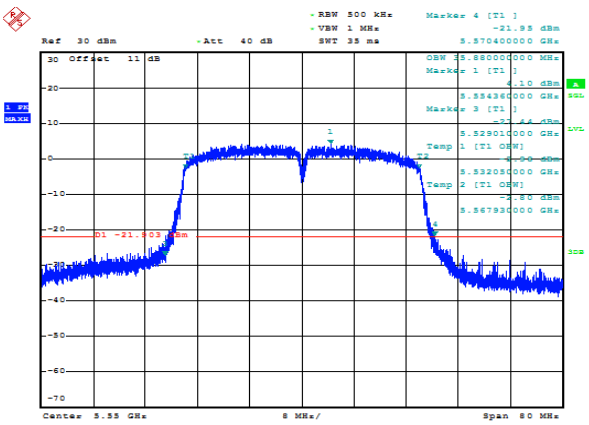
6.2.5. 802.11ac HT40 MODE

Result Table

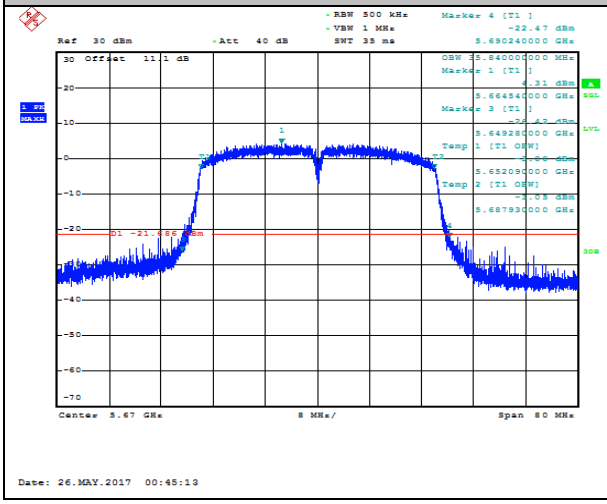
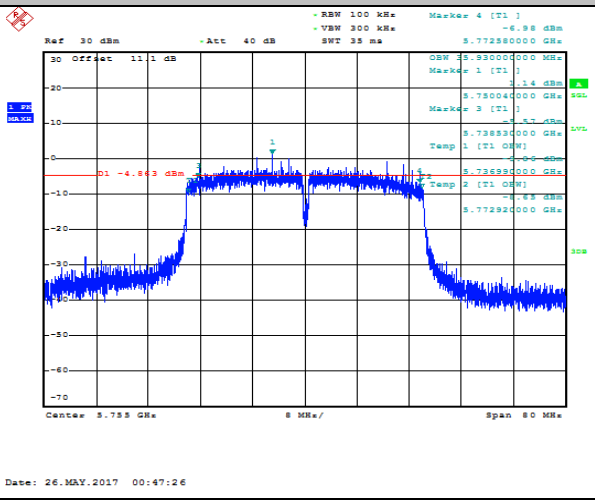
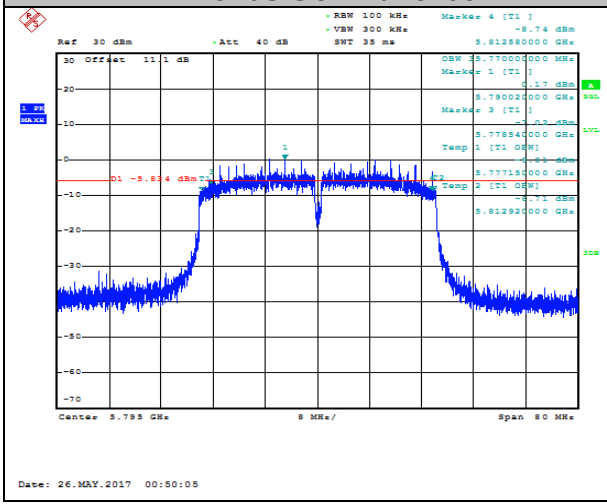
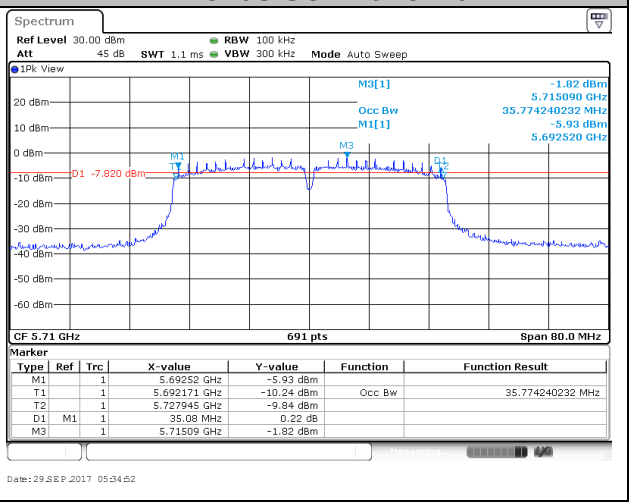
Test Mode	Antenna	Channel	EBW[MHz]	OBW[MHz]	Verdict
11AC	Ant1	5190	41.590	35.900	PASS
11AC	Ant1	5230	42.380	36.020	PASS
11AC	Ant1	5270	41.740	35.900	PASS
11AC	Ant1	5310	41.360	35.870	PASS
11AC	Ant1	5510	43.520	36.000	PASS
11AC	Ant1	5550	41.390	35.880	PASS
11AC	Ant1	5670	40.960	35.840	PASS
11AC	Ant1	5710	35.080	35.774	PASS
11AC	Ant1	5755	34.050	35.930	PASS
11AC	Ant1	5795	34.040	35.770	PASS

Test Graph

11AC40SISO-Ant1-5190	11AC40SISO-Ant1-5230
	

11AC40SISO-Ant1-5270	11AC40SISO-Ant1-5310
	
	

11AC40SISO-Ant1-5510	11AC40SISO-Ant1-5550

11AC40SISO-Ant1-5670	11AC40SISO-Ant1-5755
	
11AC40SISO-Ant1-5795	11AC40SISO-Ant1-5710
	

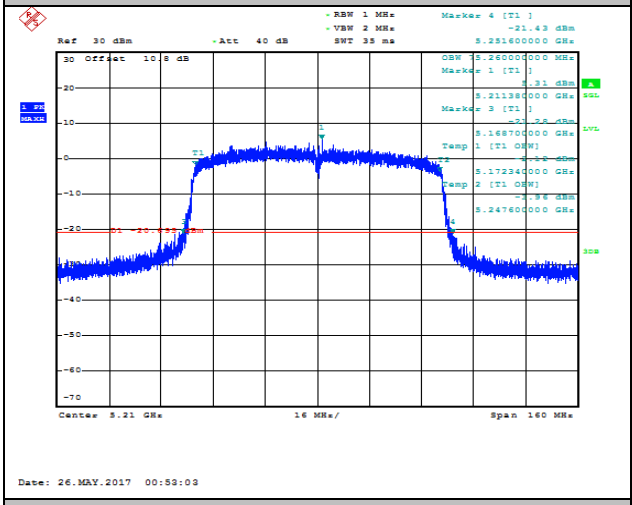
6.2.6. 802.11ac HT80 MODE

Result Table

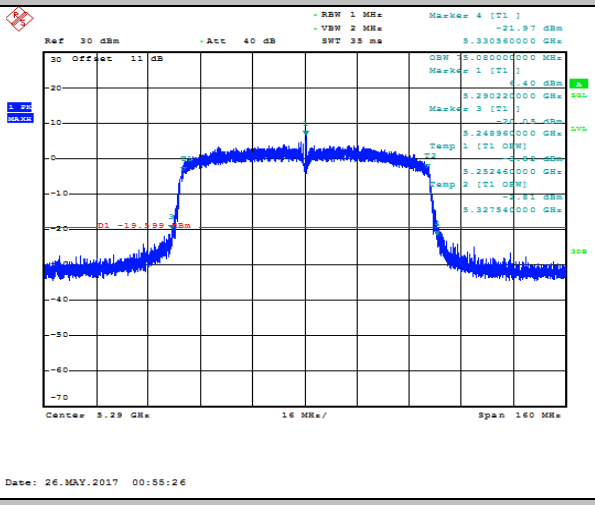
Test Mode	Antenna	Channel	EBW[MHz]	OBW[MHz]	Verdict
11AC	Ant1	5210	82.900	75.260	PASS
11AC	Ant1	5290	81.600	75.080	PASS
11AC	Ant1	5530	83.260	75.120	PASS
11AC	Ant1	5775	72.820	75.280	PASS

Test Graph

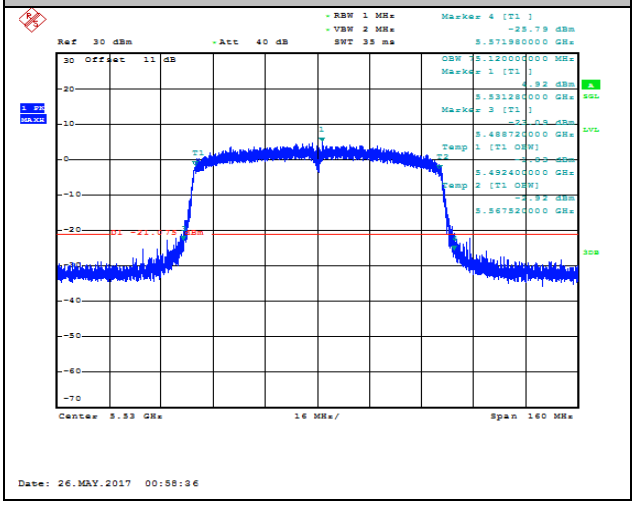
11AC80SISO-Ant1-5210



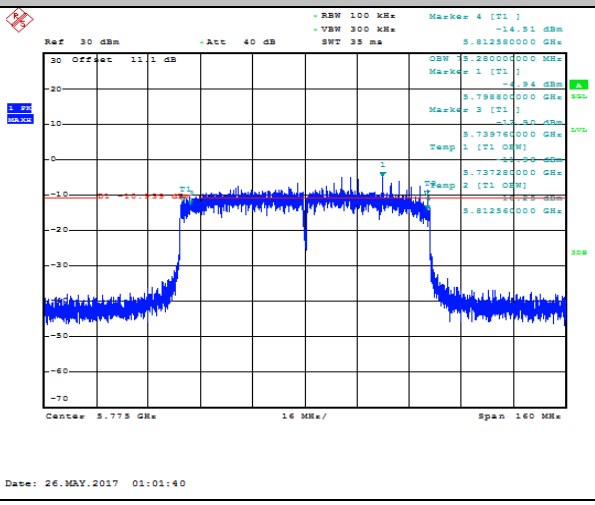
11AC80SISO-Ant1-5290



11AC80SISO-Ant1-5530



11AC80SISO-Ant1-5775



6.3. MAXIMUM CONDUCTED OUTPUT POWER

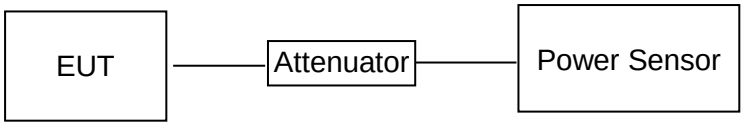
LIMITS

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
Conducted Output Power	For FCC client devices :250mW (24dBm)	5150-5250
	For RSS:e.i.r.p. power: not exceed 200 mW(23dBm) or 10 + 10 log10 B	
	250mW (24dBm)	5250-5350
	250mW (24dBm)	For FCC:5470-5725 For IC:5470-5600 5650-5725
	1 Watt (30dBm)	5725-5850

TEST PROCEDURE

Refer to KDB 789033 D02 General UNII Test Procedures New Rules v01r04
Connect the EUT to the a broadband peak RF power meter, the power meter shall have a video bandwidth that is greater than or equal to the bandwidth and shall utilize a fast-responding diode detector.

TEST SETUP



TEST CONDITIONS

Temperature: 25.6°C
Relative Humidity: 59%
Test Voltage: 3.8Vdc

RESULTS

6.3.1. 802.11a MODE

6.3.1.1. UNII-1 BAND

Test Channel	Frequency	Maximum Conducted Output Power(AVG)	EIRP For IC	FCC LIMIT	IC LIMIT
	(MHz)	(dBm)	(dBm)	dBm	dBm
Low	5180	9.88	12.88	24	23
Middle	5200	9.45	12.45	24	23
High	5240	9.56	12.56	24	23

6.3.1.2. UNII-2A BAND

Test Channel	Frequency	Maximum Conducted Output Power(AVG)	LIMIT
	(MHz)	(dBm)	dBm
Low	5260	9.45	24
Middle	5280	9.37	24
High	5320	9.29	24

6.3.1.3. UNII-2C BAND

Test Channel	Frequency	Maximum Conducted Output Power(AVG)	LIMIT
	(MHz)	(dBm)	dBm
Low	5500	9.46	24
Middle	5580	9.56	24
High	5700	9.19	24
	5720	9.15	24

6.3.1.4. UNII-3 BAND

Test Channel	Frequency	Maximum Conducted Output Power(AVG)	LIMIT
	(MHz)	(dBm)	dBm
Low	5745	9.43	30
Middle	5785	9.54	30
High	5825	9.34	30

NOTE: 1.EIRP= Maximum Conducted Output Power + ANT GAIN
2. Maximum Conducted Output Power= Conducted Output Power+ Correction Factor
3. About correction Factor please refer to section 6.1

6.3.2. 802.11n HT 20 MODE

6.3.2.1. UNII-1 BAND

Test Channel	Frequency	Maximum Conducted Output Power(AVG)	EIRP For IC	FCC LIMIT	IC LIMIT
	(MHz)	(dBm)	(dBm)	dBm	dBm
Low	5180	9.34	12.34	24	23
Middle	5200	9.46	12.46	24	23
High	5240	9.21	12.21	24	23

6.3.2.2. UNII-2A BAND

Test Channel	Frequency	Maximum Conducted Output Power(AVG)	LIMIT
	(MHz)	(dBm)	dBm
Low	5260	9.25	24
Middle	5280	9.36	24
High	5320	9.10	24

6.3.2.3. UNII-2C BAND

Test Channel	Frequency	Maximum Conducted Output Power(AVG)	LIMIT
	(MHz)	(dBm)	dBm
Low	5500	9.31	24
Middle	5580	9.41	24
High	5700	9.21	24
	5720	8.90	24

6.3.2.4. UNII-3 BAND

Test Channel	Frequency	Maximum Conducted Output Power(AVG)	LIMIT
	(MHz)	(dBm)	dBm
Low	5745	9.75	30
Middle	5785	9.68	30
High	5825	9.32	30

NOTE: 1.EIRP= Maximum Conducted Output Power + ANT GAIN
2. Maximum Conducted Output Power= Conducted Output Power+ Correction Factor
3. About correction Factor please refer to section 6.1

6.3.3. 802.11n HT 40 MODE

6.3.3.1. UNII-1 BAND

Test Channel	Frequency	Maximum Conducted Output Power(AVG)	EIRP For IC	FCC LIMIT	IC LIMIT
	(MHz)	(dBm)	(dBm)	dBm	dBm
Low	5190	10.56	13.56	24	23
High	5230	10.45	13.45	24	23

6.3.3.2. UNII-2A BAND

Test Channel	Frequency	Maximum Conducted Output Power(AVG)	LIMIT
	(MHz)	(dBm)	dBm
Low	5270	10.44	24
High	5310	10.31	24

6.3.3.3. UNII-2C BAND

Test Channel	Frequency	Maximum Conducted Output Power(AVG)	LIMIT
	(MHz)	(dBm)	dBm
Low	5510	10.54	24
Middle	5550	10.32	24
High	5670	10.64	24
	5710	10.52	24

6.3.3.4. UNII-3 BAND

Test Channel	Frequency	Maximum Conducted Output Power(AVG)	LIMIT
	(MHz)	(dBm)	dBm
Low	5755	10.32	30
High	5795	10.24	30

NOTE: 1.EIRP= Maximum Conducted Output Power + ANT GAIN
2. Maximum Conducted Output Power= Conducted Output Power+ Correction Factor
3. About correction Factor please refer to section 6.1

6.3.4. 802.11ac HT 20 MODE

6.3.4.1. UNII-1 BAND

Test Channel	Frequency	Maximum Conducted Output Power(AVG)	EIRP For IC	FCC LIMIT	IC LIMIT
	(MHz)	(dBm)	(dBm)	dBm	dBm
Low	5180	9.66	12.66	24	23
Middle	5200	9.57	12.57	24	23
High	5240	9.64	12.64	24	23

6.3.4.2. UNII-2A BAND

Test Channel	Frequency	Maximum Conducted Output Power(AVG)	LIMIT
	(MHz)	(dBm)	dBm
Low	5260	9.33	24
Middle	5280	9.55	24
High	5320	9.32	24

6.3.4.3. UNII-2C BAND

Test Channel	Frequency	Maximum Conducted Output Power(AVG)	LIMIT
	(MHz)	(dBm)	dBm
Low	5500	9.55	24
Middle	5580	9.32	24
High	5700	9.56	24
	5720	9.01	24

6.3.4.4. UNII-3 BAND

Test Channel	Frequency	Maximum Conducted Output Power(AVG)	LIMIT
	(MHz)	(dBm)	dBm
Low	5745	9.44	30
Middle	5785	9.35	30
High	5825	9.27	30

NOTE: 1.EIRP= Maximum Conducted Output Power + ANT GAIN
2. Maximum Conducted Output Power= Conducted Output Power+ Correction Factor
3. About correction Factor please refer to section 6.1

6.3.5. 802.11ac HT 40 MODE

6.3.5.1. UNII-1 BAND

Test Channel	Frequency	Maximum Conducted Output Power(AVG)	EIRP For IC	FCC LIMIT	IC LIMIT
	(MHz)	(dBm)	(dBm)	dBm	dBm
Low	5190	10.63	13.63	24	23
High	5230	10.46	13.46	24	23

6.3.5.2. UNII-2A BAND

Test Channel	Frequency	Maximum Conducted Output Power(AVG)	LIMIT
	(MHz)	(dBm)	dBm
Low	5270	10.45	24
High	5310	10.53	24

6.3.5.3. UNII-2C BAND

Test Channel	Frequency	Maximum Conducted Output Power(AVG)	LIMIT
	(MHz)	(dBm)	dBm
Low	5510	10.33	24
Middle	5550	10.14	24
High	5670	10.65	24
	5710	10.31	24

6.3.5.4. UNII-3 BAND

Test Channel	Frequency	Maximum Conducted Output Power(AVG)	LIMIT
	(MHz)	(dBm)	dBm
Low	5755	10.46	30
High	5795	10.35	30

NOTE: 1.EIRP= Maximum Conducted Output Power + ANT GAIN
2. Maximum Conducted Output Power= Conducted Output Power+ Correction Factor
3. About correction Factor please refer to section 6.1

6.3.6. 802.11ac HT 80 MODE

6.3.6.1. UNII-1 BAND

Test Channel	Frequency	Maximum Conducted Output Power(AVG)	EIRP	FCC LIMIT	IC LIMIT
	(MHz)	(dBm)	(dBm)	dBm	dBm
N/A	5210	9.52	12.52	24	23

6.3.6.2. UNII-2A BAND

Test Channel	Frequency	Maximum Conducted Output Power(AVG)	LIMIT
	(MHz)	(dBm)	dBm
N/A	5290	9.62	24

6.3.6.3. UNII-2C BAND

Test Channel	Frequency	Maximum Conducted Output Power(AVG)	LIMIT
	(MHz)	(dBm)	dBm
N/A	5530	9.31	24

6.3.6.4. UNII-3 BAND

Test Channel	Frequency	Maximum Conducted Output Power(AVG)	LIMIT
	(MHz)	(dBm)	dBm
N/A	5775	9.45	30

NOTE: 1.EIRP= Maximum Conducted Output Power + ANT GAIN
2. Maximum Conducted Output Power= Conducted Output Power+ Correction Factor
3. About correction Factor please refer to section 6.1

6.4. POWER SPECTRAL DENSITY

LIMITS

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	For FCC: Other then Mobile and portable:17dBm/MHz Mobile and portable:11dBm/MHz	5150-5250
	For RSS:10dBm/MHz	
	11dBm/MHz	5250-5350
	11dBm/MHz	For FCC:5470-5725 For IC:5470-5600 5650-5725
	30dBm/500kHz	5725-5850

TEST PROCEDURE

Connect the UUT to the spectrum analyser and use the following settings:

5150MHz~5250MHz,5250MHz~5350MHz,5470MHz~5725MHz

Center Frequency	The centre frequency of the channel under test
Detector	RMS
RBW	1MHz
VBW	≥3 × RBW
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

5725MHz-5850MHz

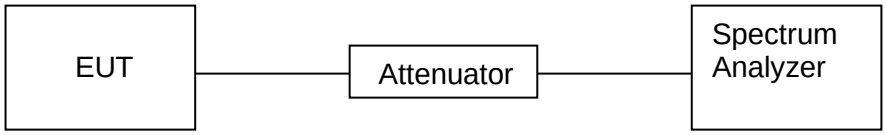
Center Frequency	The centre frequency of the channel under test
Detector	RMS
RBW	500KHz
VBW	≥3 × RBW
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

Note:
1. For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v01, section II.F.5., it is acceptable to set RBW at 1MHz and VBW at 3MHz if the spectrum analyzer does not have 500kHz RBW.

2. The value measured with RBW=1MHz is to be added with 10log(500kHz/1MHz) which is -3dB. For example, if the measured value is +10dBm using RBW=1MHz (that is +10dBm/MHz), then the converted value will be +7dBm/500kHz.

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

TEST SETUP



TEST CONDITIONS

Temperature: 25.6°C
Relative Humidity: 59%
Test Voltage: 3.8Vdc

RESULTS

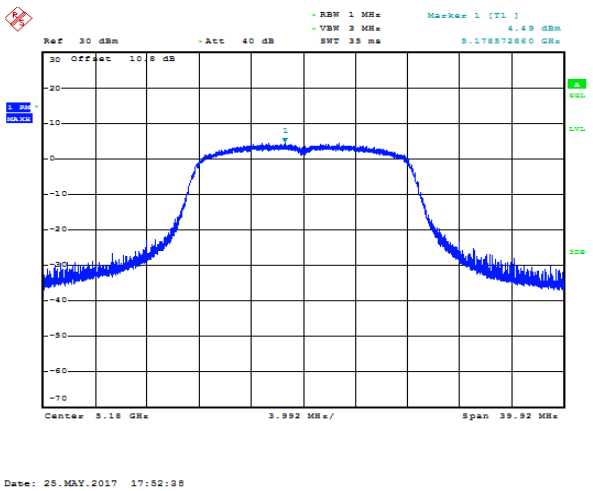
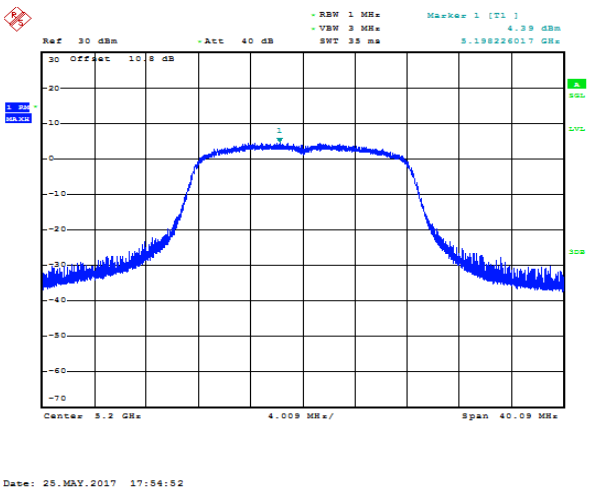
6.4.1. 802.11a MODE

Result Table

Test Mode	Antenna	Channel	Meas.Level [dBm/MHz]	PSD [dBm/MHz]	Verdict
11A	Ant1	5180	4.49	4.67	PASS
11A	Ant1	5200	4.39	4.58	PASS
11A	Ant1	5240	3.90	4.09	PASS
11A	Ant1	5260	4.13	4.32	PASS
11A	Ant1	5280	4.37	4.56	PASS
11A	Ant1	5320	3.86	4.05	PASS
11A	Ant1	5500	4.20	4.39	PASS
11A	Ant1	5580	5.06	5.25	PASS
11A	Ant1	5700	4.38	4.57	PASS
Test Mode	**Antenna**	**Channel**	**Meas.Level [dBm/500kHz]**	**PSD [dBm/500kHz]**	**Verdict**
11A	Ant1	5745	5.25	5.44	PASS
11A	Ant1	5785	3.79	3.98	PASS
11A	Ant1	5825	3.38	3.57	PASS

Note:1.PSD=Meas.Level+ Correction Factor
2.About correction Factor please refer to section 6.1

Test Graph

11A-Ant1-5180	11A-Ant1-5200
	
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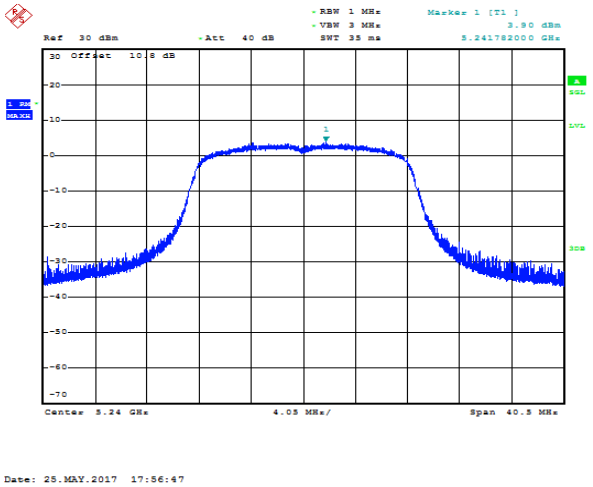
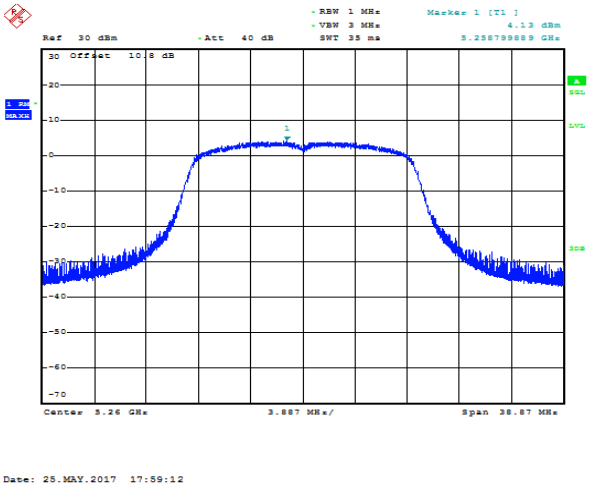
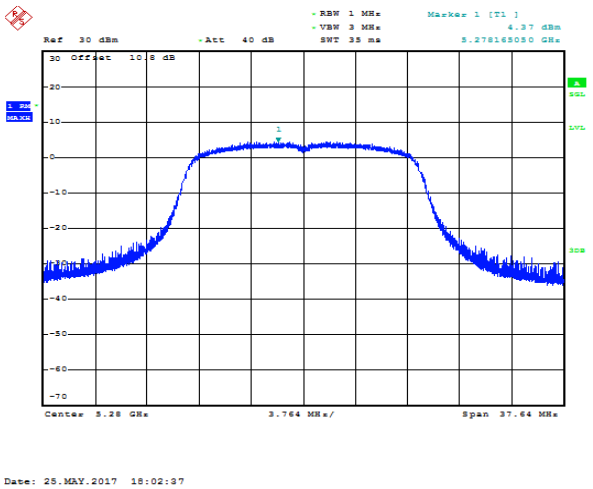
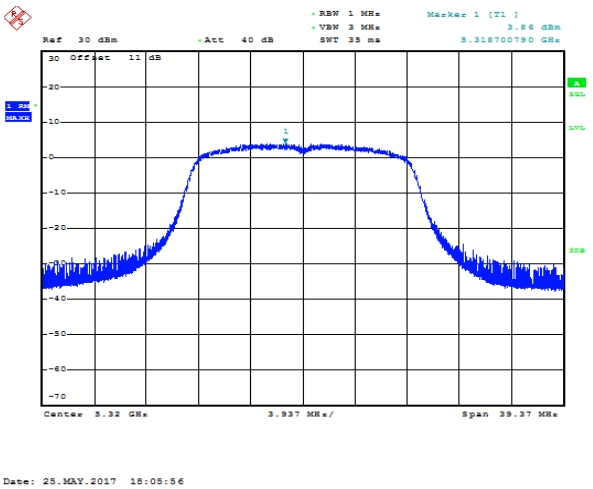
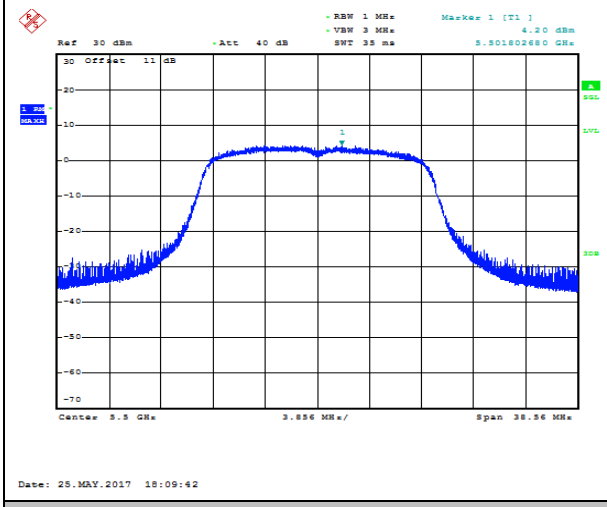
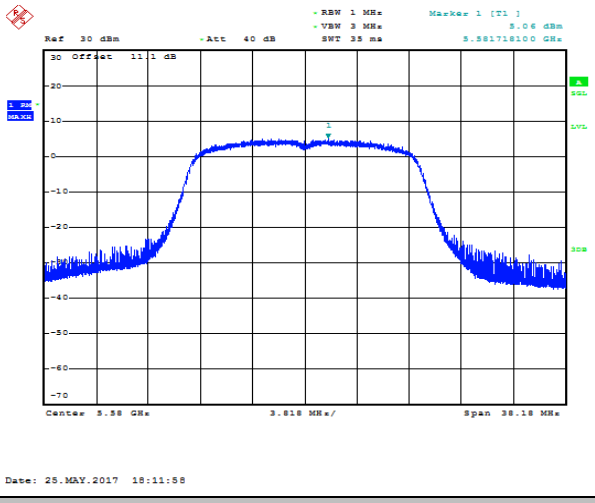
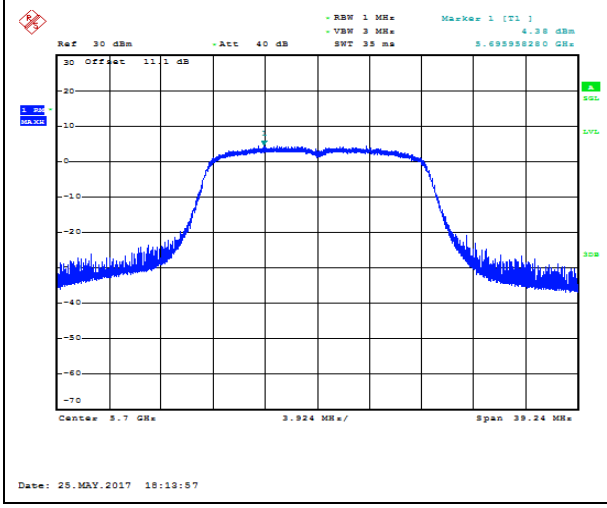
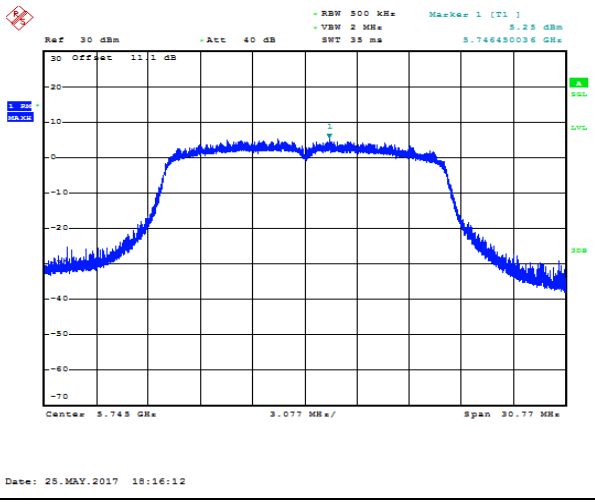
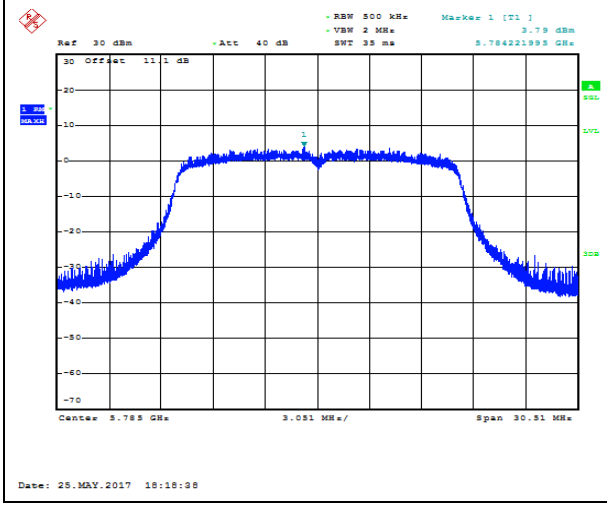
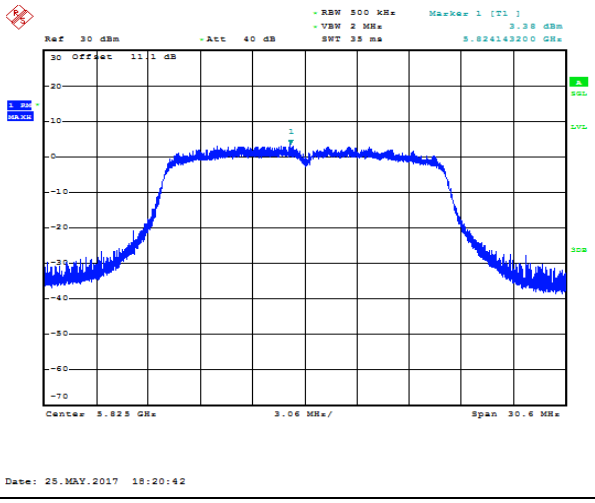
	
11A-Ant1-5280	11A-Ant1-5320
	

11A-Ant1-5500	11A-Ant1-5580
	
11A-Ant1-5700	11A-Ant1-5745
	
11A-Ant1-5785	11A-Ant1-5825
	

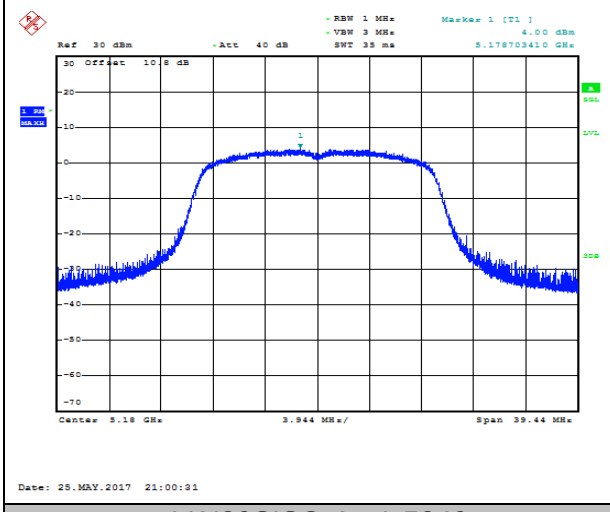
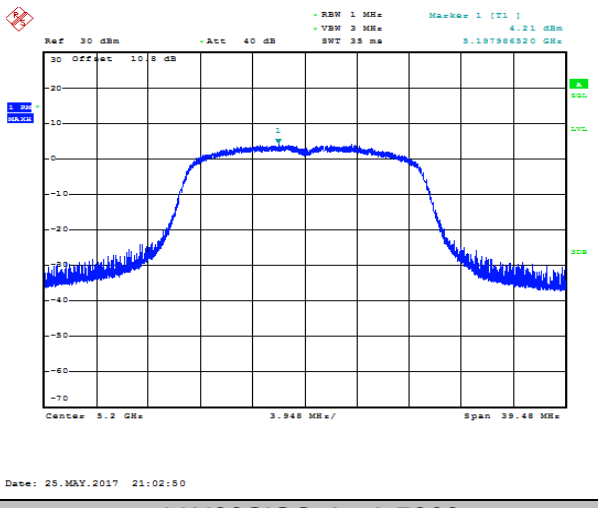
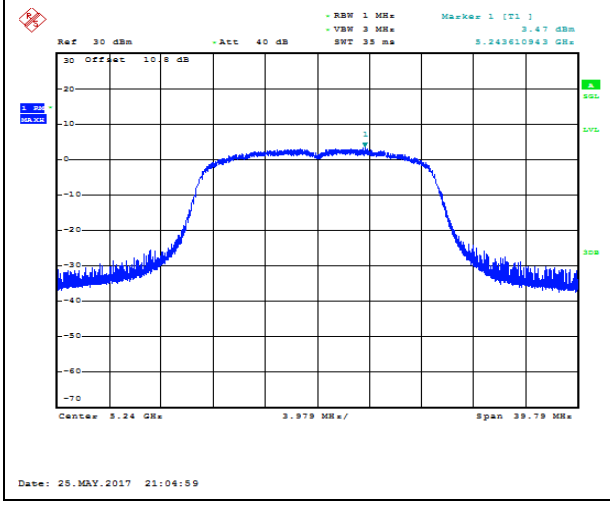
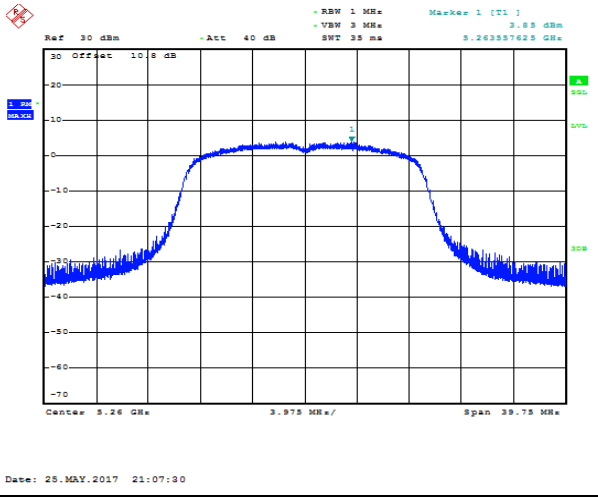
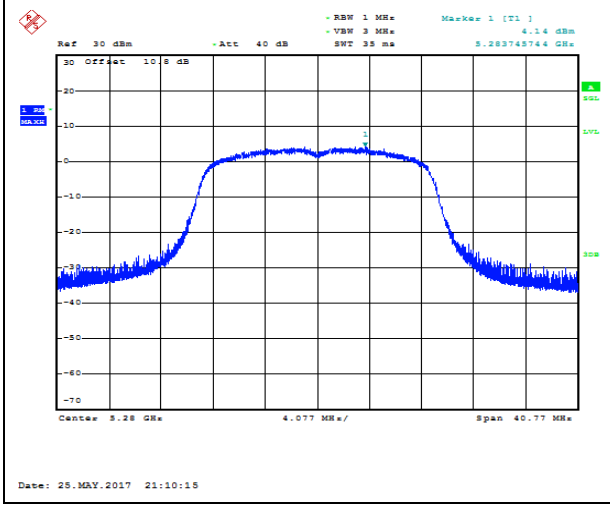
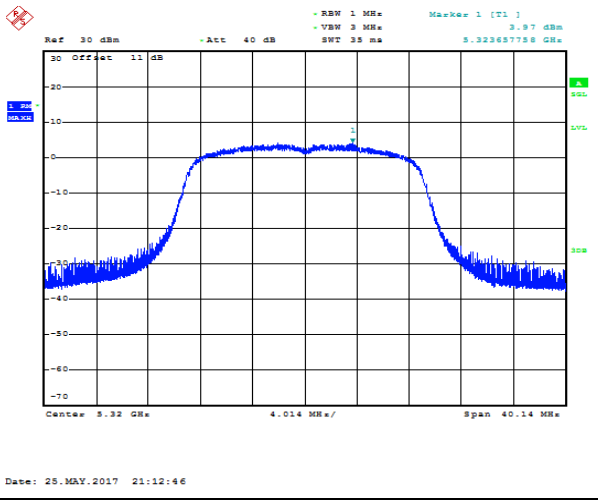
6.4.2. 802.11n HT 20 MODE

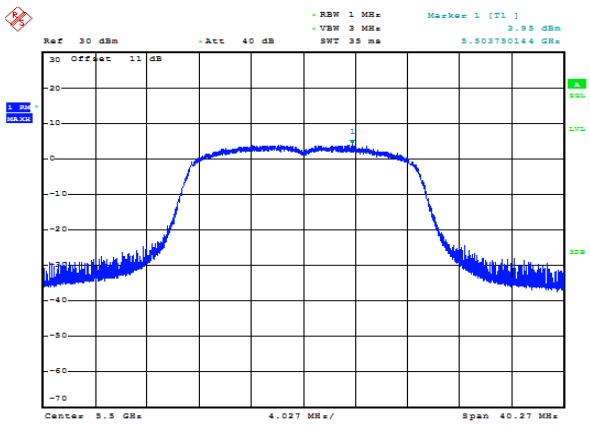
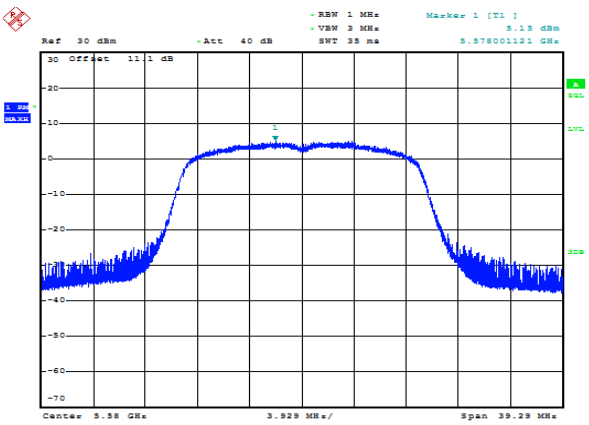
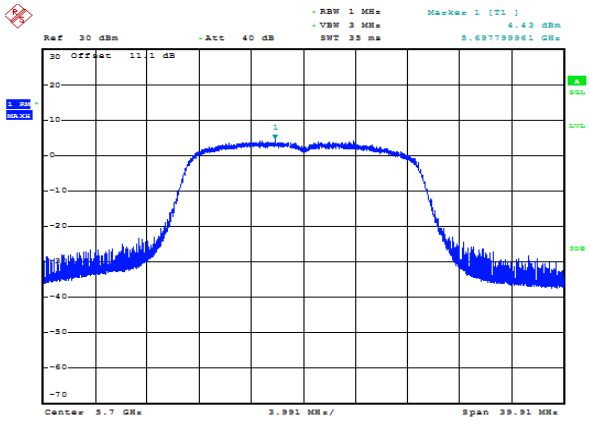
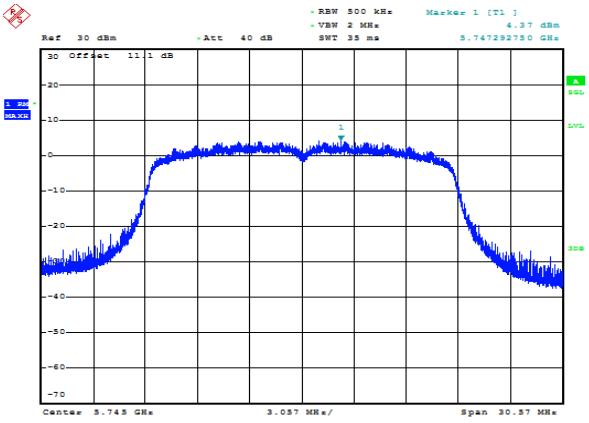
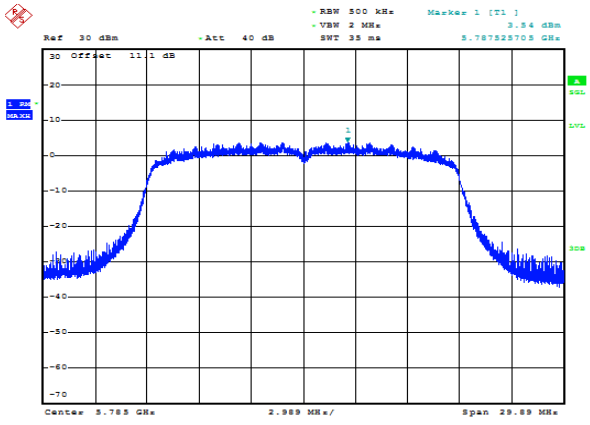
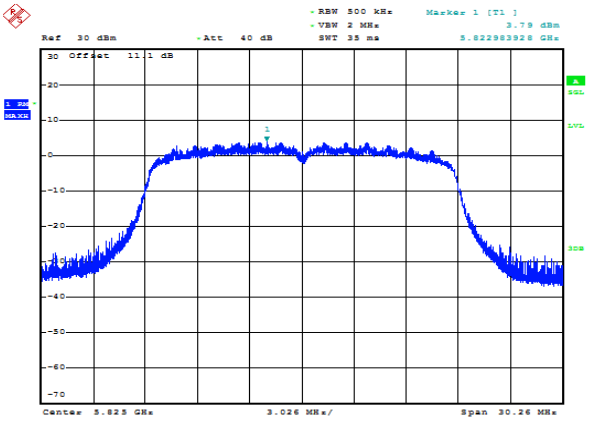
Result Table

Test Mode	Antenna	Channel	Meas.Level [dBm/MHz]	PSD [dBm/MHz]	Verdict
11N20SISO	Ant1	5180	4.00	4.21	PASS
11N20SISO	Ant1	5200	4.21	4.42	PASS
11N20SISO	Ant1	5240	3.47	3.68	PASS
11N20SISO	Ant1	5260	3.85	4.06	PASS
11N20SISO	Ant1	5280	4.14	4.35	PASS
11N20SISO	Ant1	5320	3.97	4.19	PASS
11N20SISO	Ant1	5500	3.95	4.16	PASS
11N20SISO	Ant1	5580	5.15	5.36	PASS
11N20SISO	Ant1	5700	4.43	4.64	PASS
Test Mode	**Antenna**	**Channel**	**Meas.Level [dBm/500kHz]**	**PSD [dBm/500kHz]**	**Verdict**
11N20SISO	Ant1	5745	4.37	4.58	PASS
11N20SISO	Ant1	5785	3.54	3.75	PASS
11N20SISO	Ant1	5825	3.79	4.00	PASS

Note:1.PSD=Meas.Level+ Correction Factor
2.About correction Factor please refer to section 6.1

Test Graph

11N20SISO-Ant1-5180	11N20SISO-Ant1-5200
	
11N20SISO-Ant1-5240	11N20SISO-Ant1-5260
	
11N20SISO-Ant1-5280	11N20SISO-Ant1-5320
	

11N20SISO-Ant1-5500	11N20SISO-Ant1-5580
	
11N20SISO-Ant1-5700	11N20SISO-Ant1-5745
	
11N20SISO-Ant1-5785	11N20SISO-Ant1-5825
	

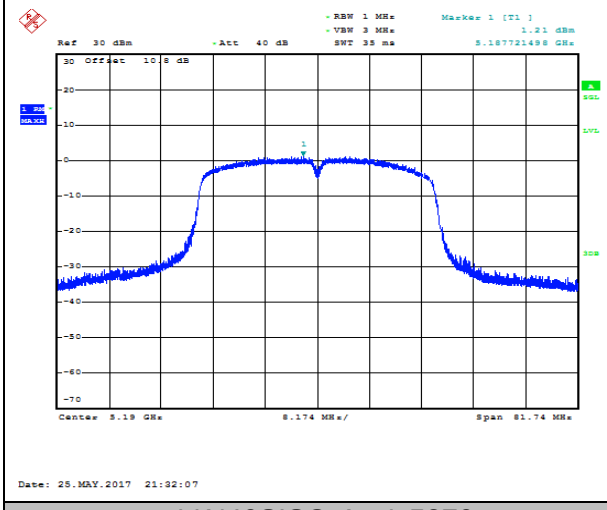
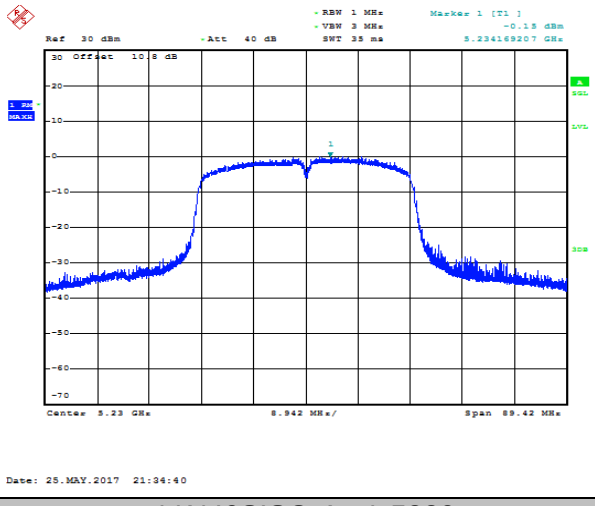
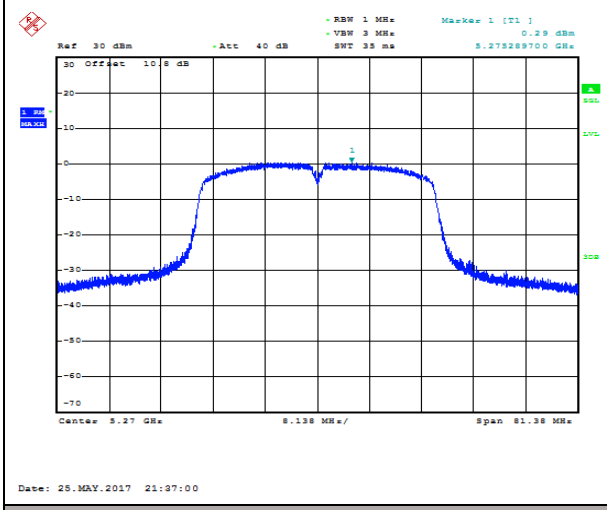
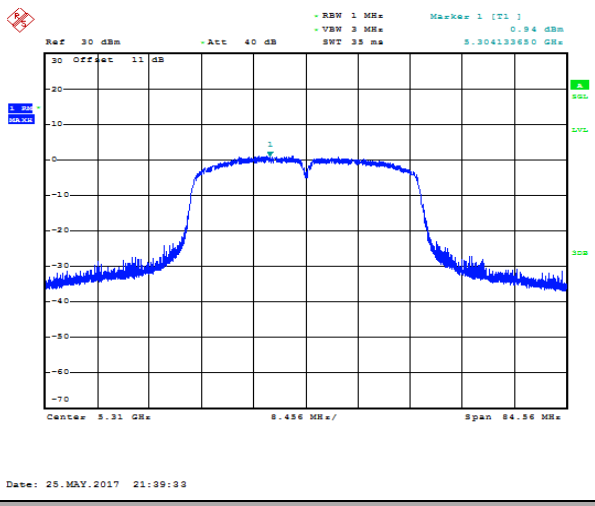
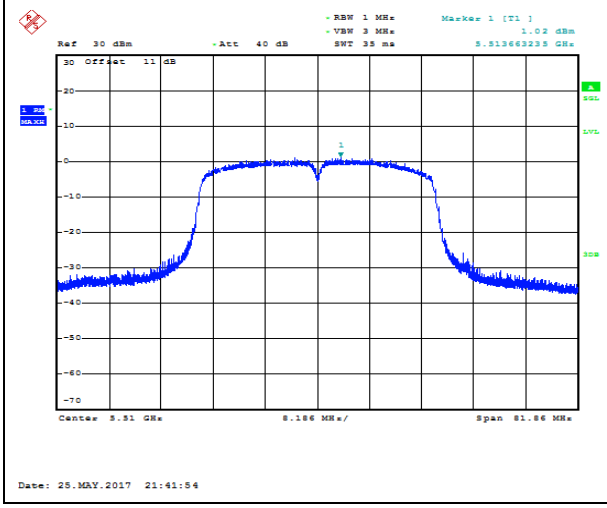
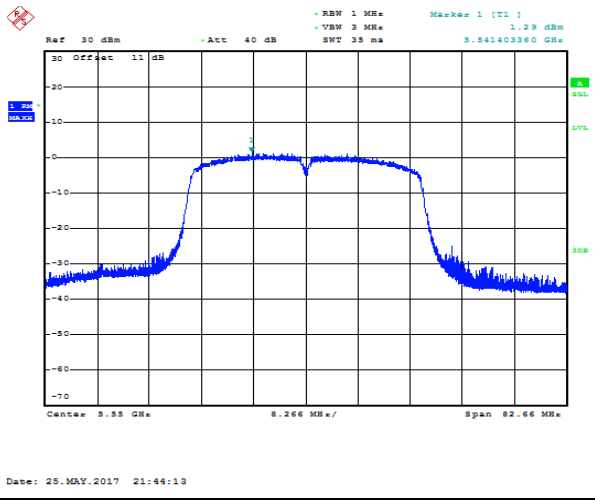
6.4.3. 802.11n HT40 MODE

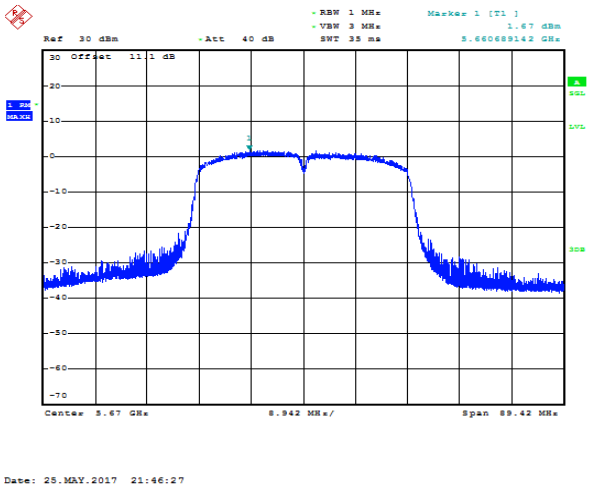
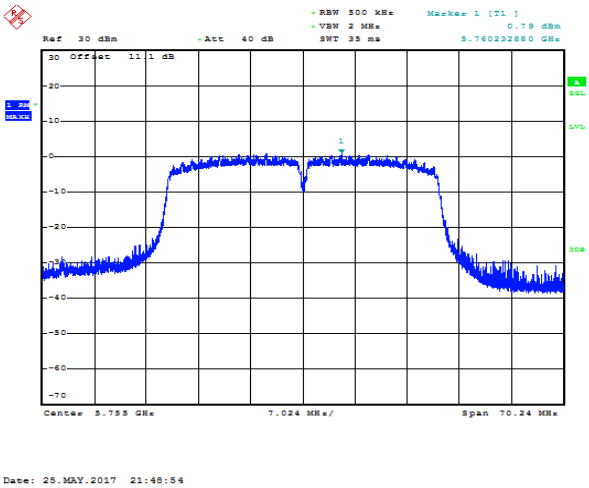
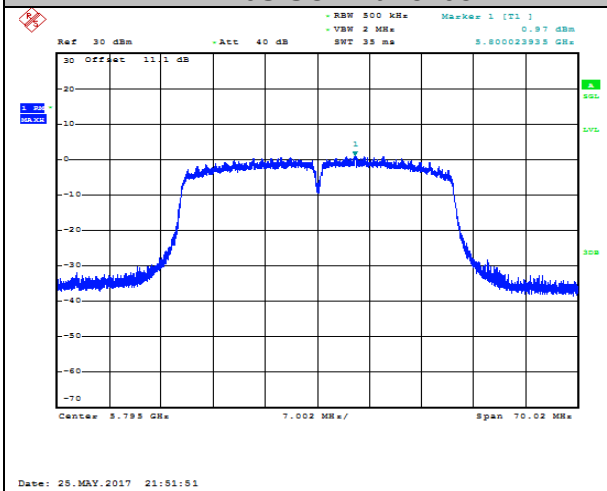
Result Table

Test Mode	Antenna	Channel	Meas.Level [dBm/MHz]	PSD [dBm/MHz]	Verdict
11N40SISO	Ant1	5190	1.21	1.61	PASS
11N40SISO	Ant1	5230	-0.15	0.25	PASS
11N40SISO	Ant1	5270	0.29	0.69	PASS
11N40SISO	Ant1	5310	0.94	1.34	PASS
11N40SISO	Ant1	5510	1.02	2.44	PASS
11N40SISO	Ant1	5550	1.29	1.69	PASS
11N40SISO	Ant1	5670	1.67	3.73	PASS
Test Mode	**Antenna**	**Channel**	**Meas.Level [dBm/500kHz]**	**PSD [dBm/500kHz]**	**Verdict**
11N40SISO	Ant1	5755	0.79	1.19	PASS
11N40SISO	Ant1	5795	0.97	1.37	PASS

Note:1.PSD=Meas.Level+ Correction Factor
2.About correction Factor please refer to section 6.1

Test Graph

11N40SISO-Ant1-5190	11N40SISO-Ant1-5230
	
11N40SISO-Ant1-5270	11N40SISO-Ant1-5320
	
11N40SISO-Ant1-5510	11N40SISO-Ant1-5550
	

11N40SISO-Ant1-5670	11N40SISO-Ant1-5755
	
11N40SISO-Ant1-5795	---
	---

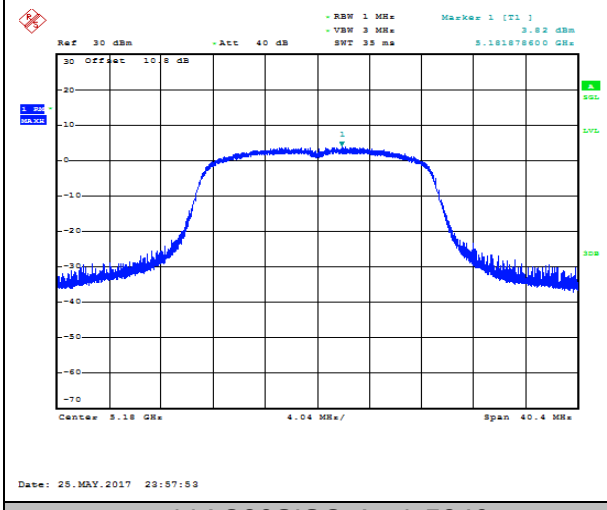
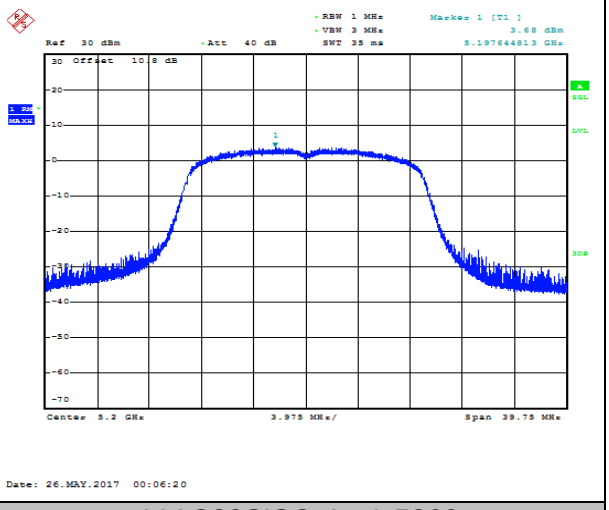
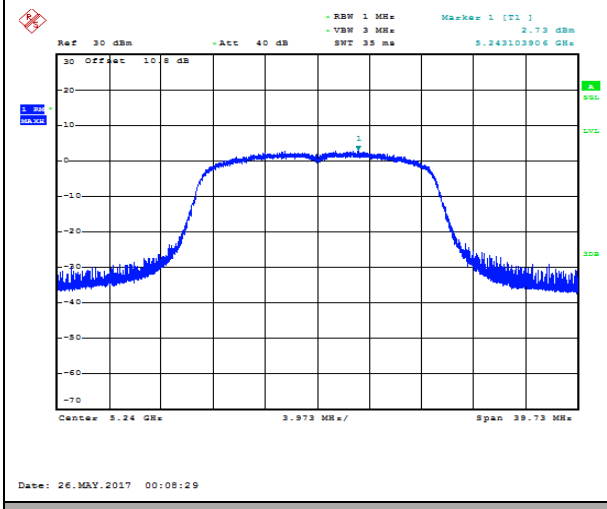
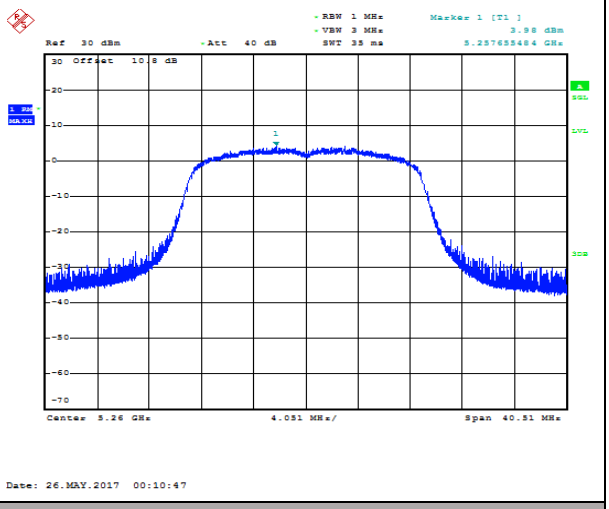
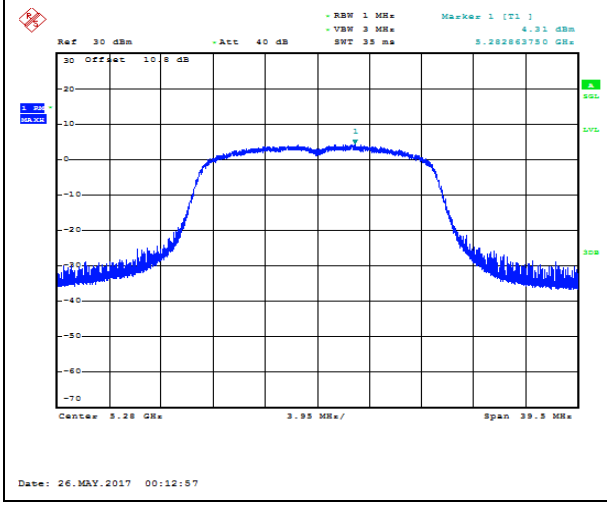
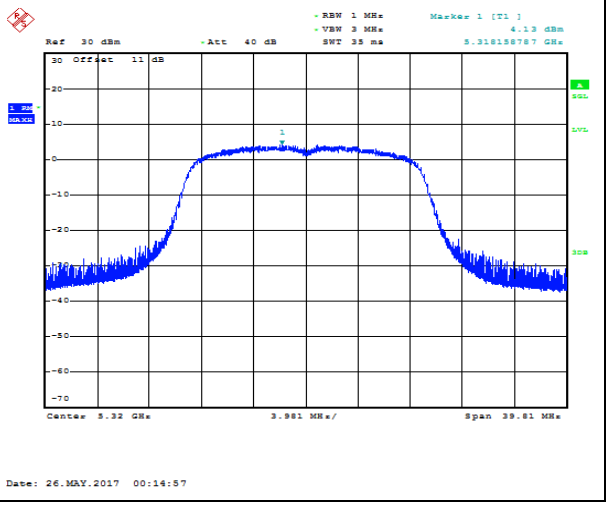
6.4.4. 802.11ac HT20 MODE

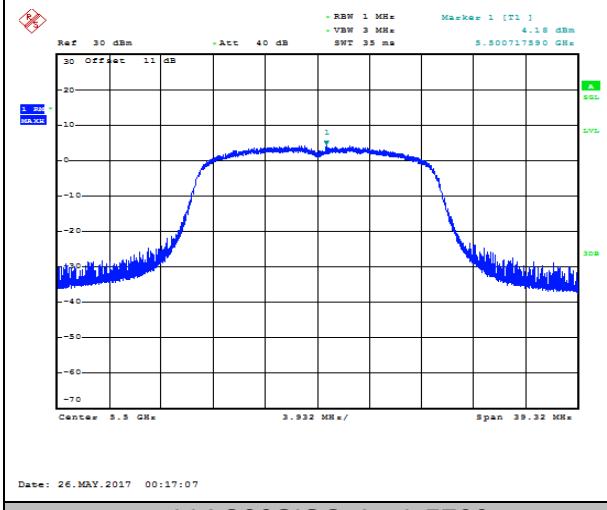
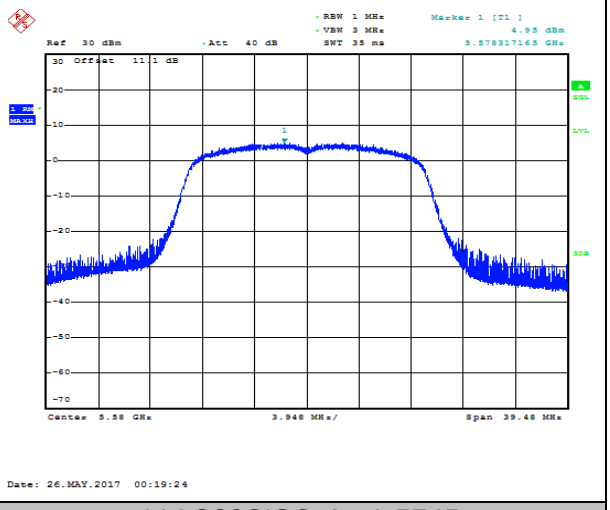
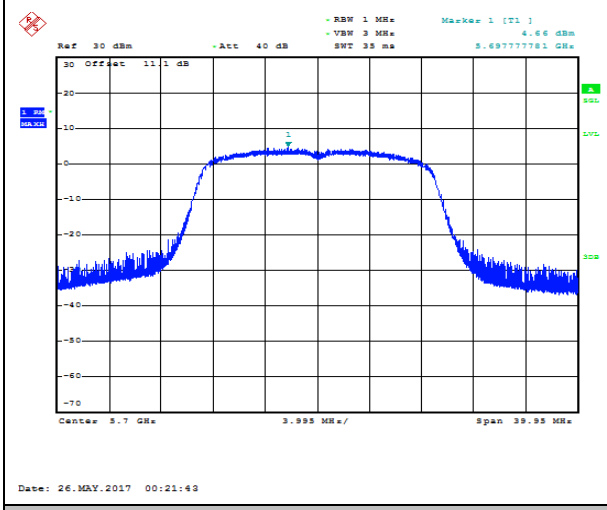
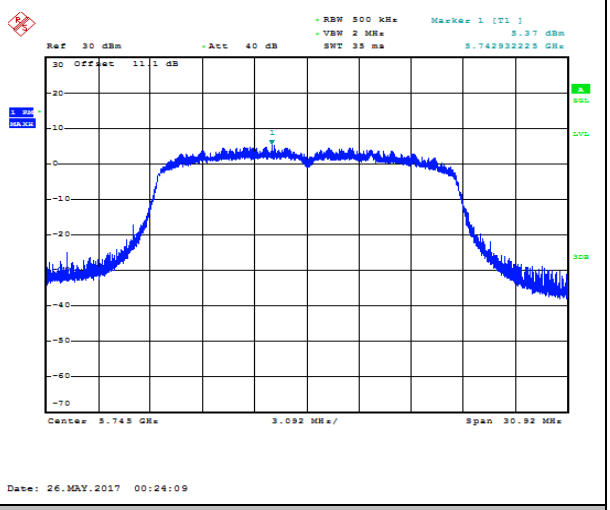
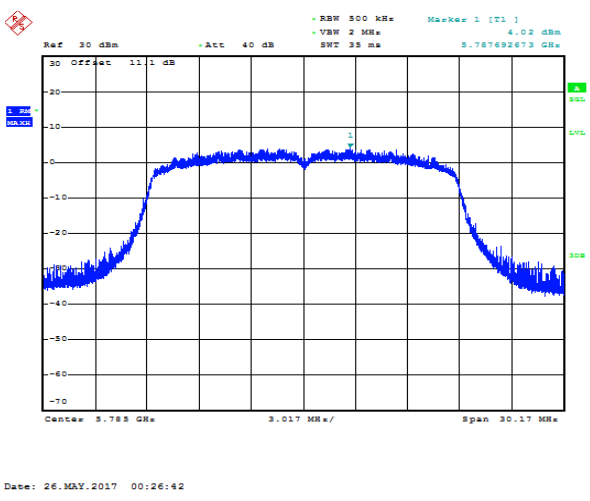
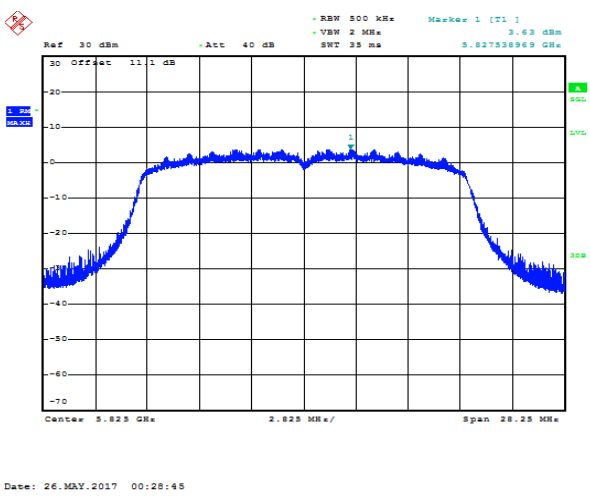
Test Data

Test Mode	Antenna	Channel	Meas.Level [dBm/MHz]	PSD [dBm/MHz]	Verdict
11AC20SISO	Ant1	5180	3.82	4.01	PASS
11AC20SISO	Ant1	5200	3.68	4.07	PASS
11AC20SISO	Ant1	5240	2.73	2.92	PASS
11AC20SISO	Ant1	5260	3.98	4.17	PASS
11AC20SISO	Ant1	5280	4.31	4.50	PASS
11AC20SISO	Ant1	5320	4.13	4.32	PASS
11AC20SISO	Ant1	5500	4.18	4.37	PASS
11AC20SISO	Ant1	5580	4.95	5.14	PASS
11AC20SISO	Ant1	5700	4.66	4.85	PASS
Test Mode	**Antenna**	**Channel**	**Meas.Level [dBm/500kHz]**	**PSD [dBm/500kHz]**	**Verdict**
11AC20SISO	Ant1	5745	5.37	5.56	PASS
11AC20SISO	Ant1	5785	4.02	4.21	PASS
11AC20SISO	Ant1	5825	3.63	3.82	PASS

Note:1.PSD=Meas.Level+ Correction Factor
2.About correction Factor please refer to section 6.1

Test Graph

11AC20SISO-Ant1-5180	11AC20SISO-Ant1-5200
	
11AC20SISO-Ant1-5240	11AC20SISO-Ant1-5260
	
11AC20SISO-Ant1-5280	11AC20SISO-Ant1-5320
	

11AC20SISO-Ant1-5500	11AC20SISO-Ant1-5580
	
11AC20SISO-Ant1-5700	11AC20SISO-Ant1-5745
	
11AC20SISO-Ant1-5785	11AC20SISO-Ant1-5825
	

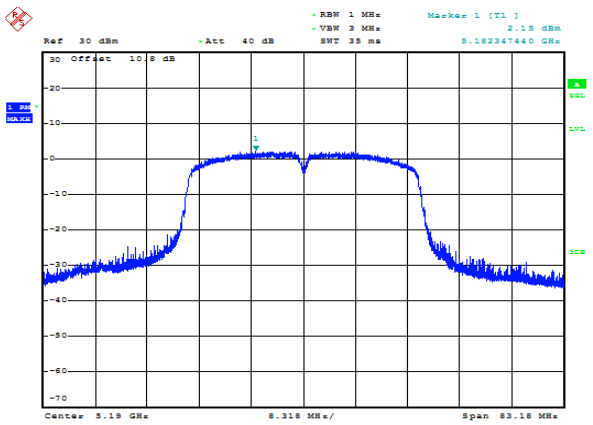
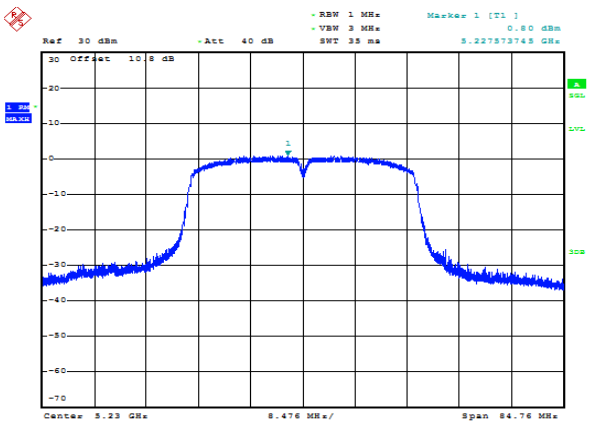
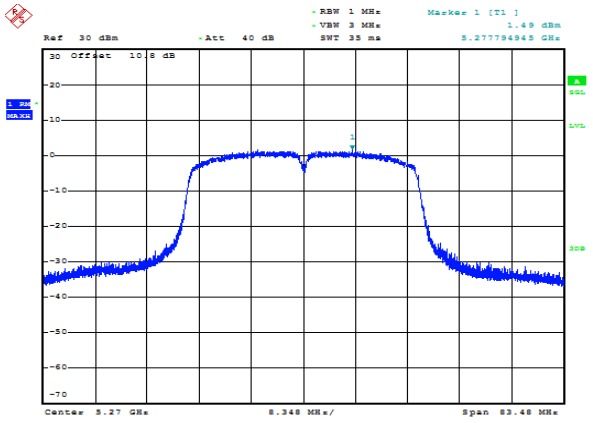
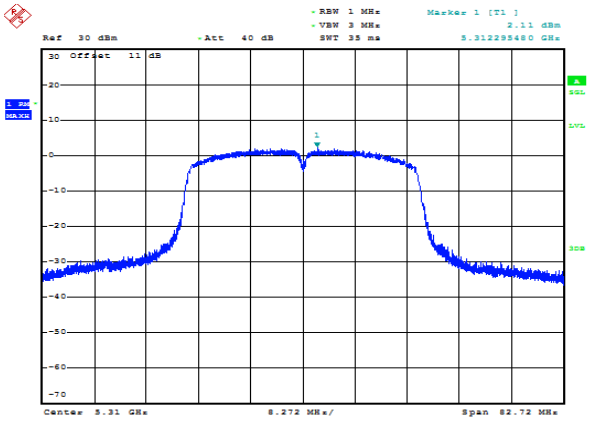
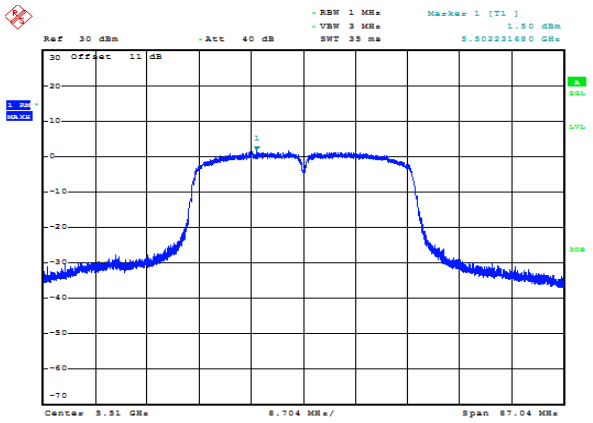
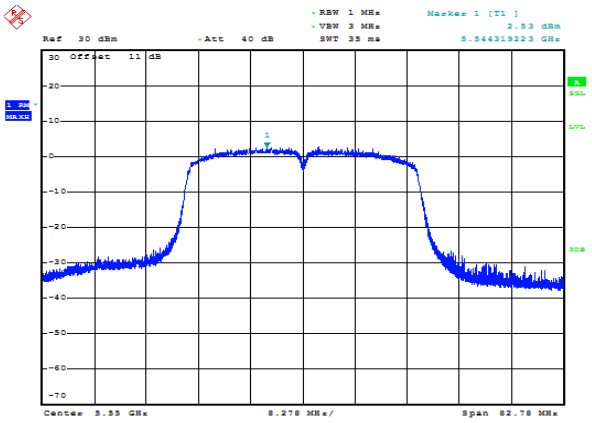
6.4.5. 802.11ac HT40 MODE

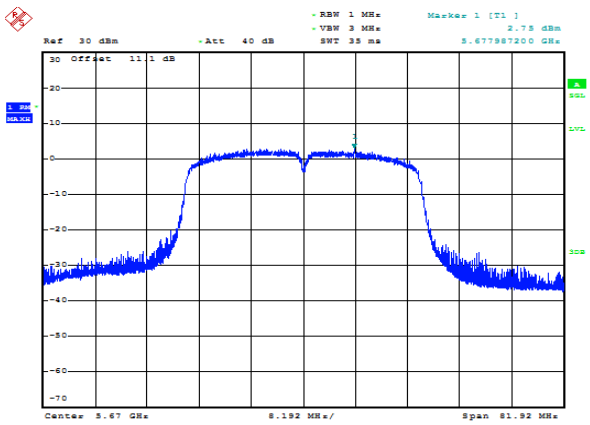
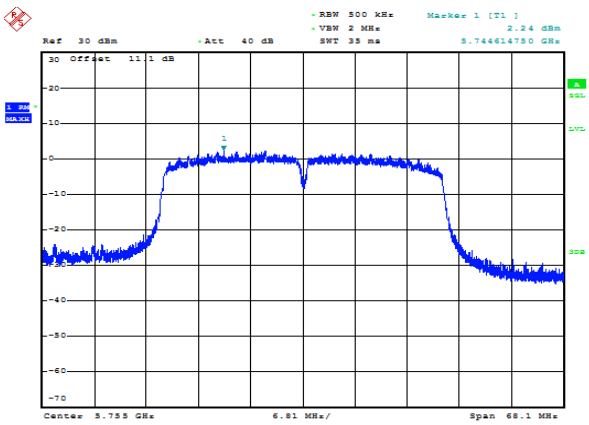
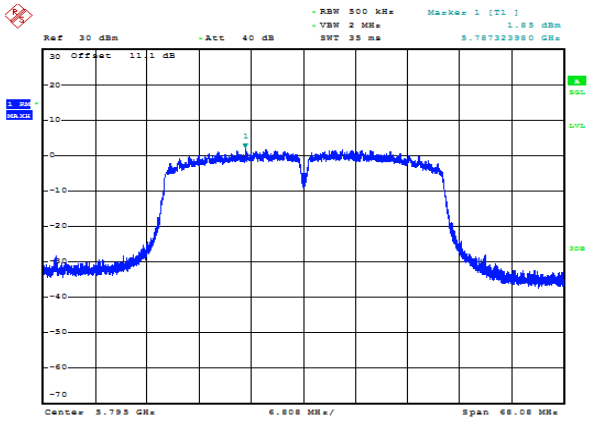
Result Table

Test Mode	Antenna	Channel	Meas.Level [dBm/MHz]	PSD [dBm/MHz]	Verdict
11AC40SISO	Ant1	5190	2.15	2.54	PASS
11AC40SISO	Ant1	5230	0.80	1.19	PASS
11AC40SISO	Ant1	5270	1.49	1.88	PASS
11AC40SISO	Ant1	5310	2.11	2.50	PASS
11AC40SISO	Ant1	5510	1.50	1.89	PASS
11AC40SISO	Ant1	5550	2.53	2.92	PASS
11AC40SISO	Ant1	5670	2.75	3.14	PASS
Test Mode	**Antenna**	**Channel**	**Meas.Level [dBm/500kHz]**	**PSD [dBm/500kHz]**	**Verdict**
11AC40SISO	Ant1	5755	2.24	2.63	PASS
11AC40SISO	Ant1	5795	1.85	2.24	PASS

Note:1.PSD=Meas.Level+ Correction Factor
2.About correction Factor please refer to section 6.1

Test Graph

11AC40SISO-Ant1-5190	11AC40SISO-Ant1-5230
	
11AC40SISO-Ant1-5270	11AC40SISO-Ant1-5310
	
11AC40SISO-Ant1-5510	11AC40SISO-Ant1-5550
	

11AC40SISO-Ant1-5670	11AC40SISO-Ant1-5755
	
11AC40SISO-Ant1-5795	---
	---

6.4.6. 802.11ac HT80 MODE

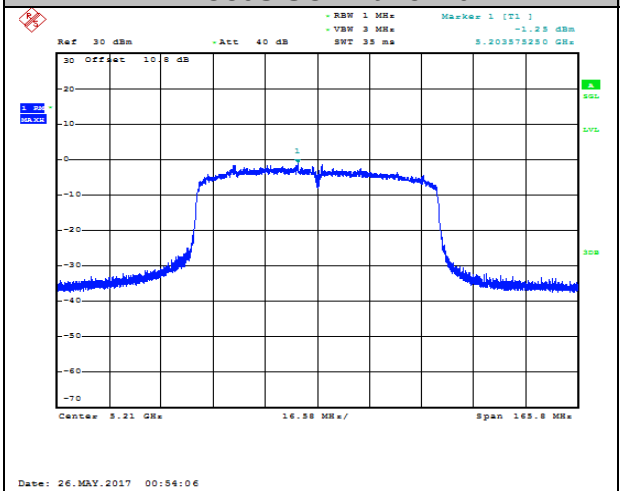
Result Table

Test Mode	Antenna	Channel	Meas.Level [dBm/MHz]	PSD [dBm/MHz]	Verdict
11AC80SISO	Ant1	5210	12.5	13.28	PASS
11AC80SISO	Ant1	5290	12.78	13.56	PASS
11AC80SISO	Ant1	5530	13.4	14.18	PASS
11AC80SISO	Ant1	5775	12.79	13.57	PASS
Test Mode	**Antenna**	**Channel**	**Meas.Level [dBm/500kHz]**	**PSD [dBm/500kHz]**	**Verdict**
11AC80SISO	Ant1	5775	12.79	13.57	PASS

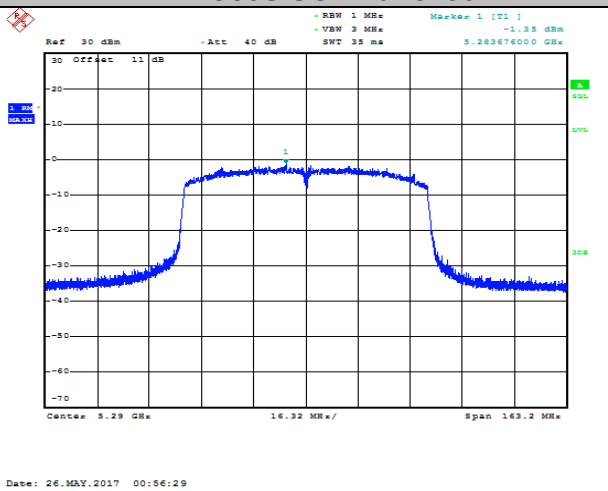
Note:1.PSD=Meas.Level+ Correction Factor
2.About correction Factor please refer to section 6.1

Test Graph

11AC80SISO-Ant1-5210



11AC80SISO-Ant1-5290



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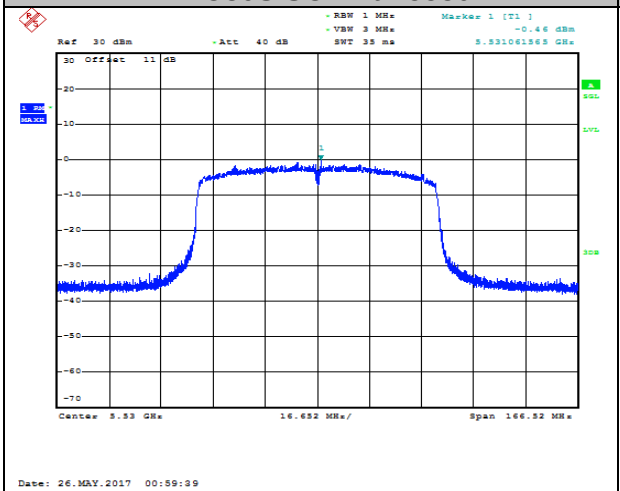
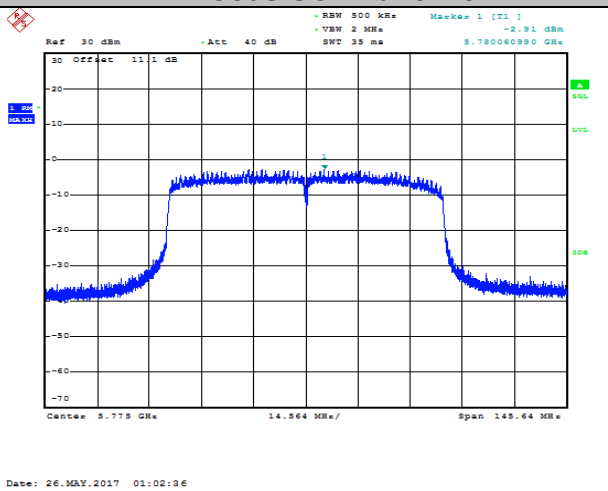


11AC80SISO-Ant1-5775



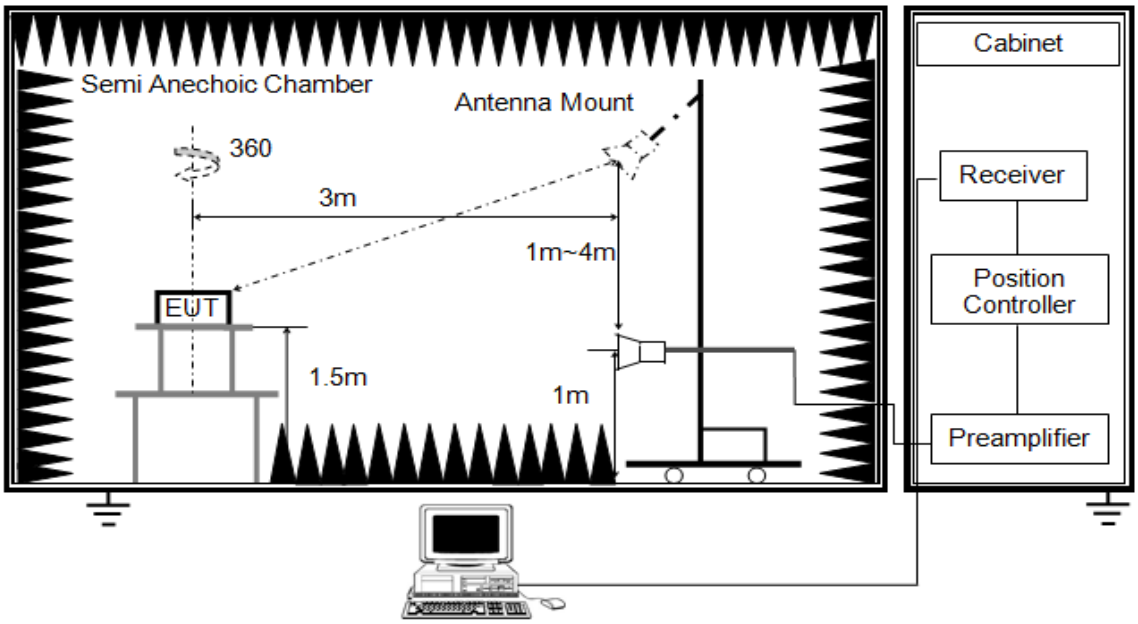
6.5. RADIATED SPURIOUS EMISSIONS/UNDESIRABLE EMISSION

LIMITS

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
Antenna conducted Spurious Emission	68.2dBμV/m	5150-5250
	68.2dBμV/m	5250-5350
	68.2dBμV/m	For FCC:5470-5725 For IC:5470-5600 5650-5725
	68.2dBμV/m	5725-5850

Note: Limit=95.2+EIRP[dBm]=95.2-27=68.2 dBμV/m

TEST PROCEDURE



1. The testing follows the guidelines in ANSI C63.10-2013.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 1.5m above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

The spectrum analyser and use the following settings:

Detector	Peak
RBW	1000K
VBW	≥3 × RBW
Trace	Max hold
Sweep time	Auto

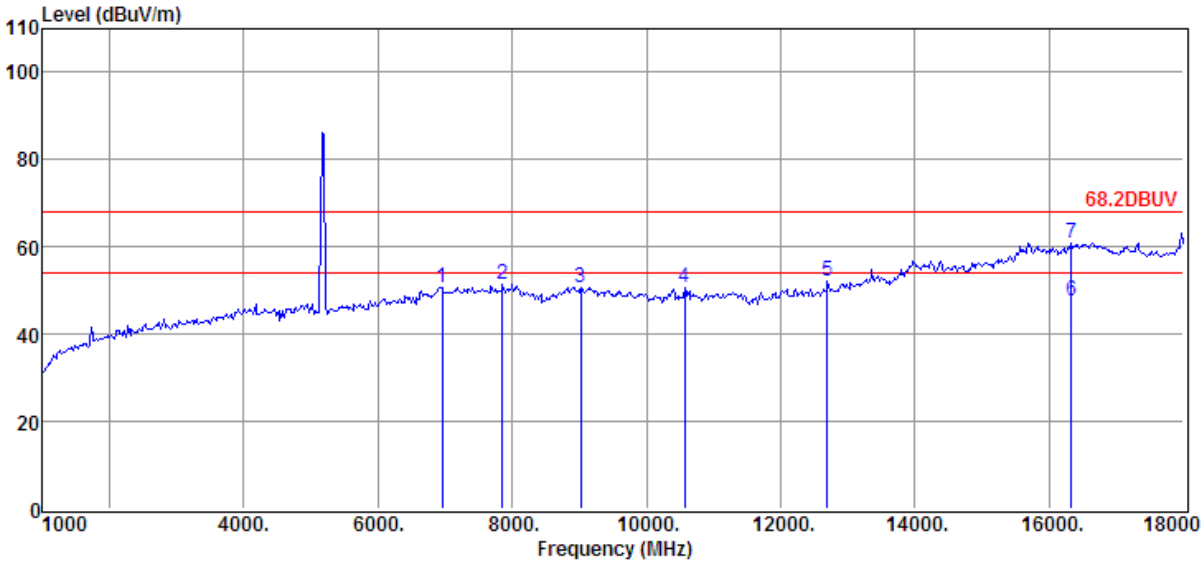
Use the peak marker function to determine the maximum amplitude level**.**

RESULTS

6.5.1. 802.11a MODE

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5180MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/HORIZONTAL
Memo	:		

Data: 1

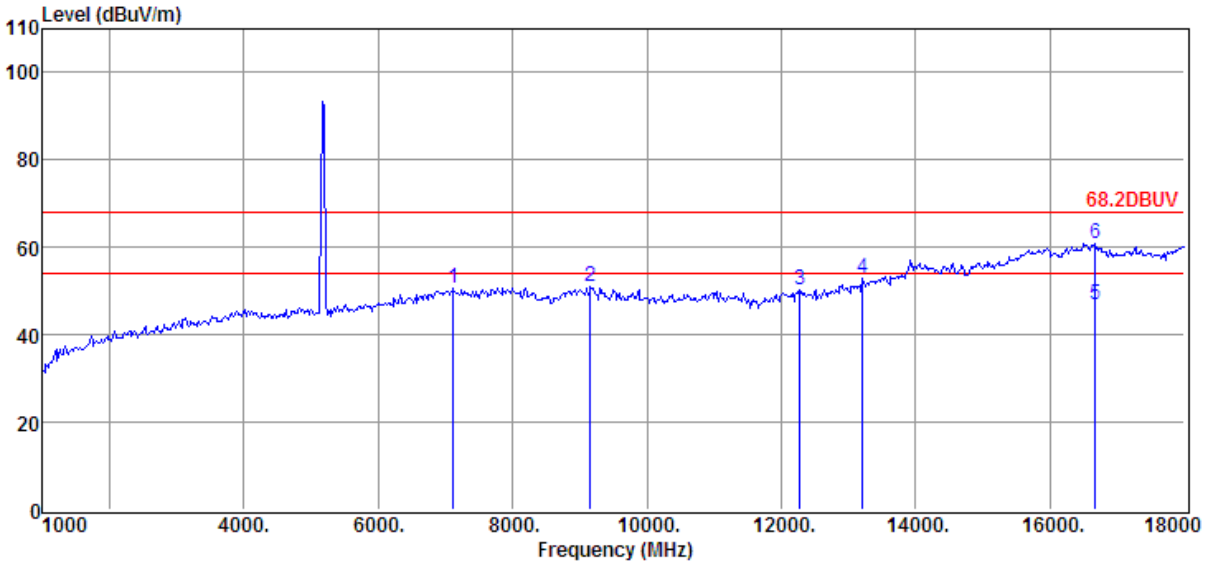


Item	Freq.	Read Level	Antenna Factor	PRM Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector	Polarization
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	(dBµV/m)	(dBµV/m)	(dB)		
1	6950.00	34.62	36.16	30.34	10.39	50.83	68.20	-17.37	Peak	HORIZONTAL
2	7851.00	34.92	36.67	31.07	11.05	51.57	68.20	-16.63	Peak	HORIZONTAL
3	9024.00	33.73	37.45	32.33	11.83	50.68	68.20	-17.52	Peak	HORIZONTAL
4	10571.00	34.58	36.60	33.33	12.80	50.65	68.20	-17.55	Peak	HORIZONTAL
5	12696.00	34.32	38.50	35.48	14.65	51.99	68.20	-16.21	Peak	HORIZONTAL
6	16334.00	21.56	44.44	35.86	17.35	47.49	54.00	-6.51	Average	HORIZONTAL
7	16334.00	34.90	44.44	35.86	17.35	60.83	68.20	-7.37	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5180MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/VERTICAL
Memo	:		

Data: 2

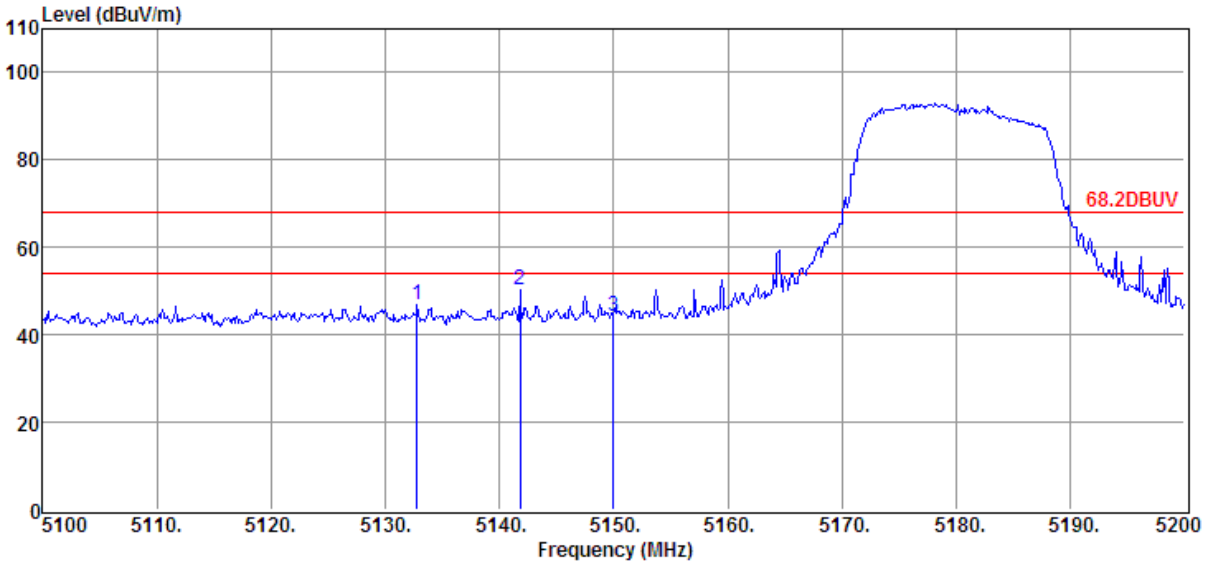


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	7120.00	34.08	36.30	30.44	10.55	50.49	68.20	-17.71	Peak	VERTICAL
2	9160.00	34.20	37.14	32.39	12.01	50.96	68.20	-17.24	Peak	VERTICAL
3	12271.00	32.71	37.98	35.01	14.45	50.13	68.20	-18.07	Peak	VERTICAL
4	13206.00	34.86	39.01	35.54	14.73	53.06	68.20	-15.14	Peak	VERTICAL
5	16674.00	21.02	44.42	36.28	17.84	47.00	54.00	-7.00	Average	VERTICAL
6	16674.00	34.82	44.42	36.28	17.84	60.80	68.20	-7.40	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5180MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/VERTICAL
Memo	:		

Data: 3

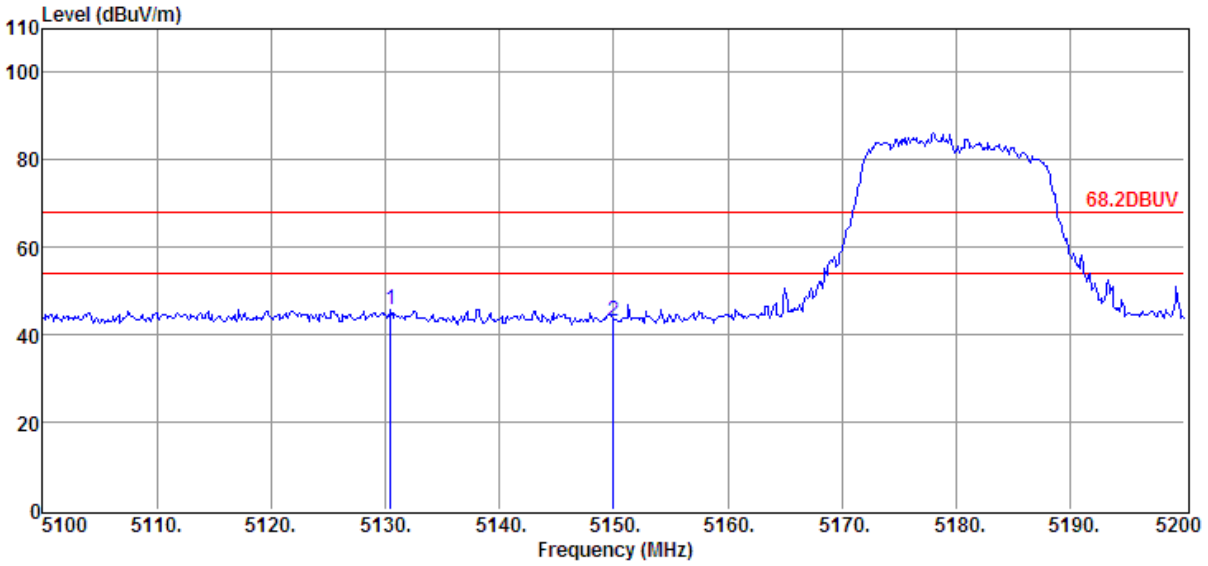


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5132.80	33.34	33.98	29.34	8.80	46.78	68.20	-21.42	Peak	VERTICAL
2	5141.80	36.63	33.99	29.33	8.84	50.13	68.20	-18.07	Peak	VERTICAL
3	5150.00	30.84	34.01	29.33	8.84	44.36	68.20	-23.84	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5180MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/HORIZONTAL
Memo	:		

Data: 4

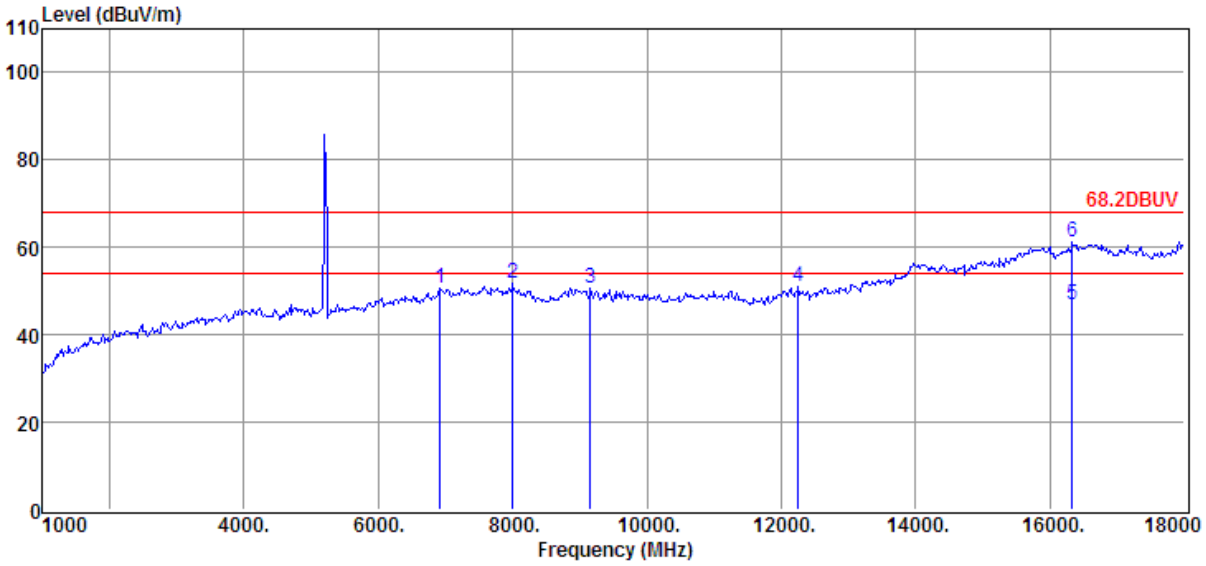


Item	Freq.	Read Level	Antenna Factor	PRM Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector	Polarization
(Mark)	(MHz)	(dBµV)	(dB/m)	dB	dB	(dBµV/m)	(dBµV/m)	(dB)		
1	5130.50	32.19	33.97	29.34	8.80	45.62	68.20	-22.58	Peak	HORIZONTAL
2	5150.00	29.73	34.01	29.33	8.84	43.25	68.20	-24.95	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5200MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/HORIZONTAL
Memo	:		

Data: 5

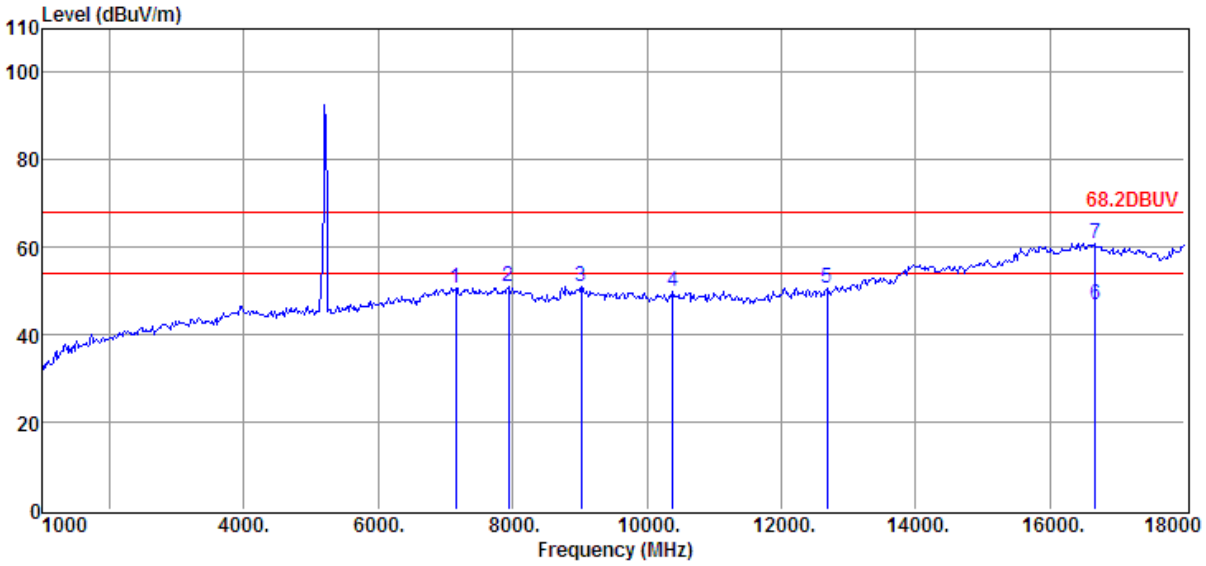


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	6916.00	34.54	36.13	30.33	10.37	50.71	68.20	-17.49	Peak	HORIZONTAL
2	8004.00	34.95	36.69	31.13	11.13	51.64	68.20	-16.56	Peak	HORIZONTAL
3	9160.00	34.00	37.14	32.39	12.01	50.76	68.20	-17.44	Peak	HORIZONTAL
4	12254.00	33.40	37.96	34.95	14.45	50.86	68.20	-17.34	Peak	HORIZONTAL
5	16334.00	21.05	44.44	35.86	17.35	46.98	54.00	-7.02	Average	HORIZONTAL
6	16334.00	35.27	44.44	35.86	17.35	61.20	68.20	-7.00	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5200MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/VERTICAL
Memo	:		

Data: 6

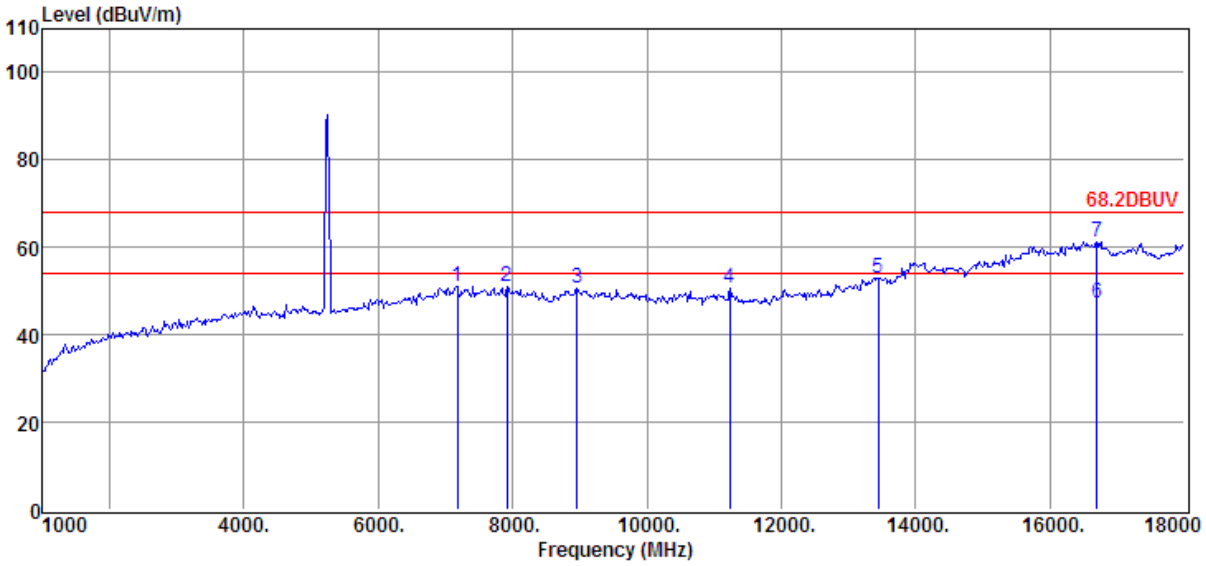


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	7154.00	34.35	36.33	30.45	10.56	50.79	68.20	-17.41	Peak	VERTICAL
2	7936.00	34.43	36.69	31.11	11.10	51.11	68.20	-17.09	Peak	VERTICAL
3	9024.00	34.09	37.45	32.33	11.83	51.04	68.20	-17.16	Peak	VERTICAL
4	10384.00	34.03	36.51	33.17	12.65	50.02	68.20	-18.18	Peak	VERTICAL
5	12679.00	33.12	38.48	35.48	14.65	50.77	68.20	-17.43	Peak	VERTICAL
6	16674.00	21.06	44.42	36.28	17.84	47.04	54.00	-6.96	Average	VERTICAL
7	16674.00	35.04	44.42	36.28	17.84	61.02	68.20	-7.18	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5240MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/VERTICAL
Memo	:		

Data: 7

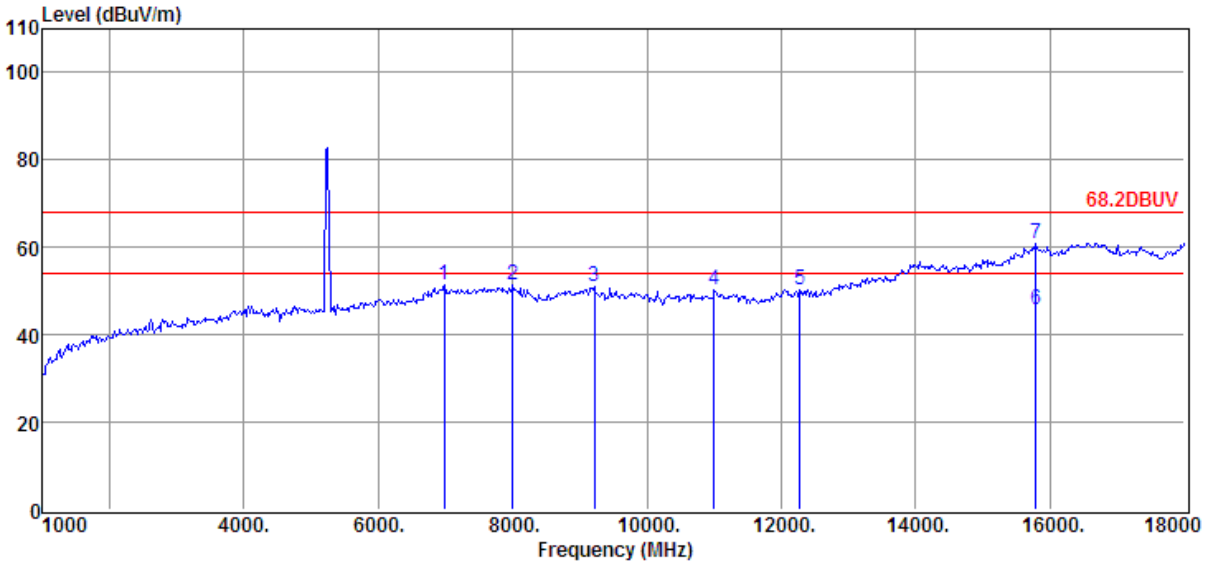


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	7171.00	34.54	36.34	30.48	10.57	50.97	68.20	-17.23	Peak	VERTICAL
2	7919.00	34.48	36.68	31.10	11.09	51.15	68.20	-17.05	Peak	VERTICAL
3	8956.00	33.89	37.31	32.28	11.79	50.71	68.20	-17.49	Peak	VERTICAL
4	11234.00	34.17	37.28	34.25	13.53	50.73	68.20	-17.47	Peak	VERTICAL
5	13444.00	34.31	39.24	35.28	14.78	53.05	68.20	-15.15	Peak	VERTICAL
6	16691.00	21.37	44.39	36.28	17.84	47.32	54.00	-6.68	Average	VERTICAL
7	16691.00	35.41	44.39	36.28	17.84	61.36	68.20	-6.84	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5240MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/HORIZONTAL
Memo	:		

Data: 8

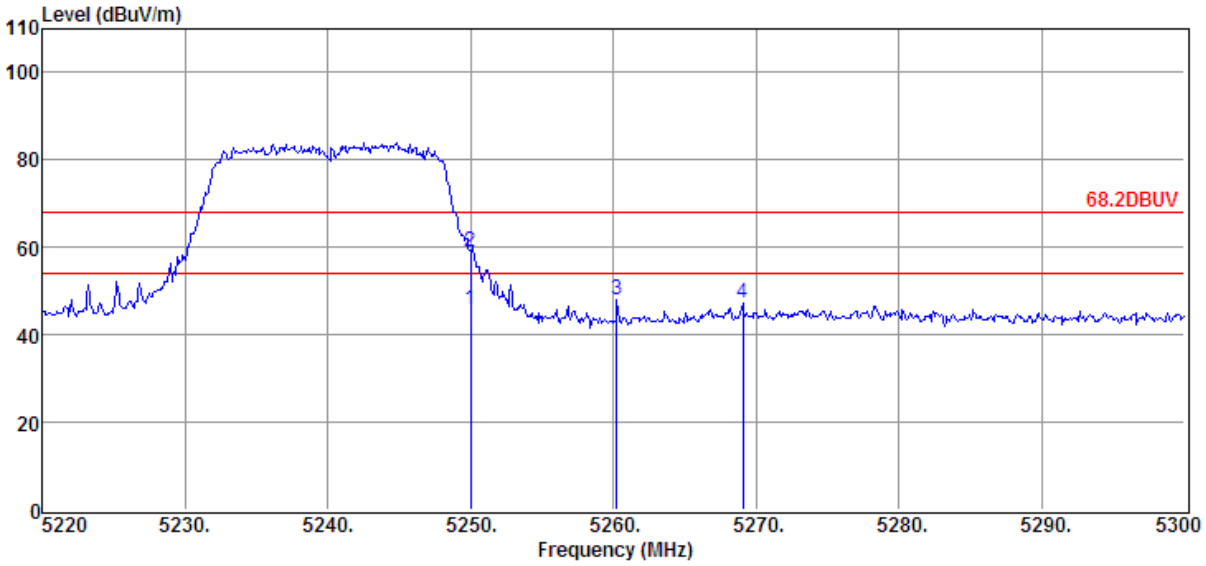


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	6984.00	35.16	36.19	30.38	10.40	51.37	68.20	-16.83	Peak	HORIZONTAL
2	8004.00	34.69	36.69	31.13	11.13	51.38	68.20	-16.82	Peak	HORIZONTAL
3	9211.00	34.42	37.03	32.42	12.05	51.08	68.20	-17.12	Peak	HORIZONTAL
4	10996.00	33.03	37.79	33.98	13.48	50.32	68.20	-17.88	Peak	HORIZONTAL
5	12271.00	33.03	37.98	35.01	14.45	50.45	68.20	-17.75	Peak	HORIZONTAL
6	15790.00	21.14	43.53	35.56	16.82	45.93	54.00	-8.07	Average	HORIZONTAL
7	15790.00	36.26	43.53	35.56	16.82	61.05	68.20	-7.15	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5240MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/HORIZONTAL
Memo	:		

Data: 9

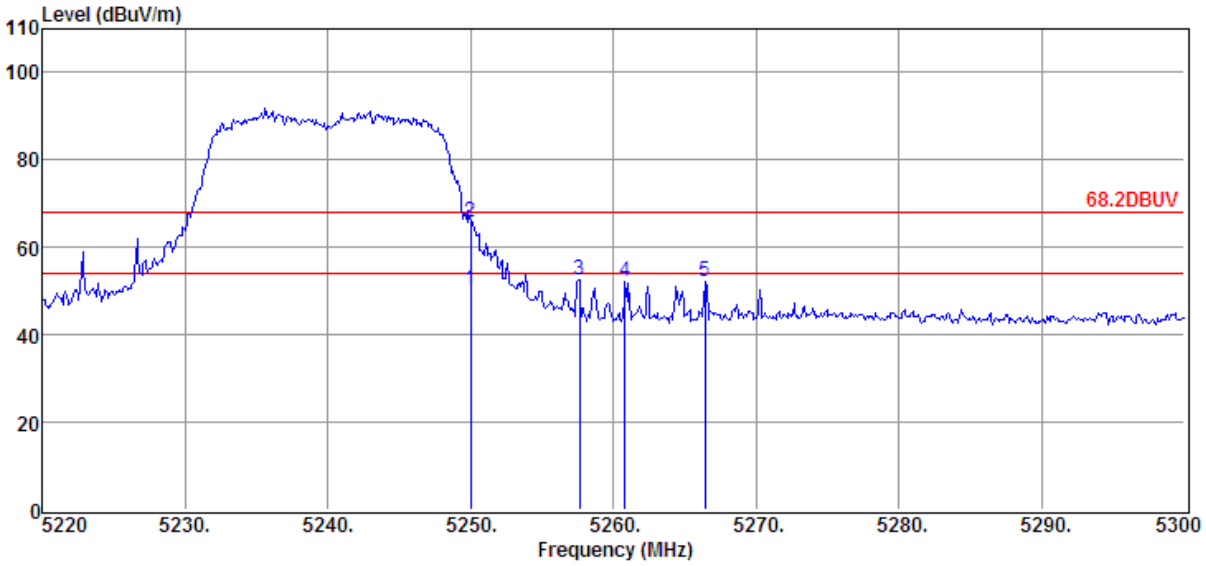


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5250.00	32.05	34.21	29.32	8.93	45.87	54.00	-8.13	Average	HORIZONTAL
2	5250.00	45.09	34.21	29.32	8.93	58.91	68.20	-9.29	Peak	HORIZONTAL
3	5260.24	34.23	34.23	29.32	8.93	48.07	68.20	-20.13	Peak	HORIZONTAL
4	5269.04	33.49	34.25	29.32	8.96	47.38	68.20	-20.82	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5240MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/VERTICAL
Memo	:		

Data: 10

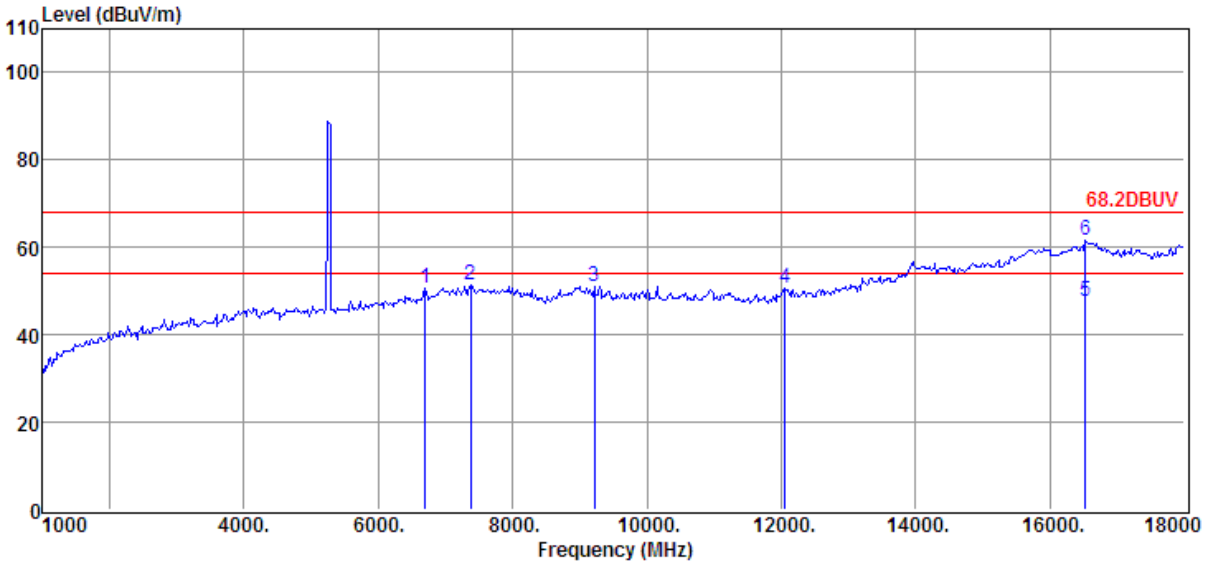


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5250.00	36.48	34.21	29.32	8.93	50.30	54.00	-3.70	Average	VERTICAL
2	5250.00	51.93	34.21	29.32	8.93	65.75	68.20	-2.45	Peak	VERTICAL
3	5257.60	38.53	34.23	29.32	8.93	52.37	68.20	-15.83	Peak	VERTICAL
4	5260.80	38.26	34.23	29.32	8.93	52.10	68.20	-16.10	Peak	VERTICAL
5	5266.40	38.11	34.24	29.32	8.96	51.99	68.20	-16.21	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5260MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/VERTICAL
Memo	:		

Data: 11

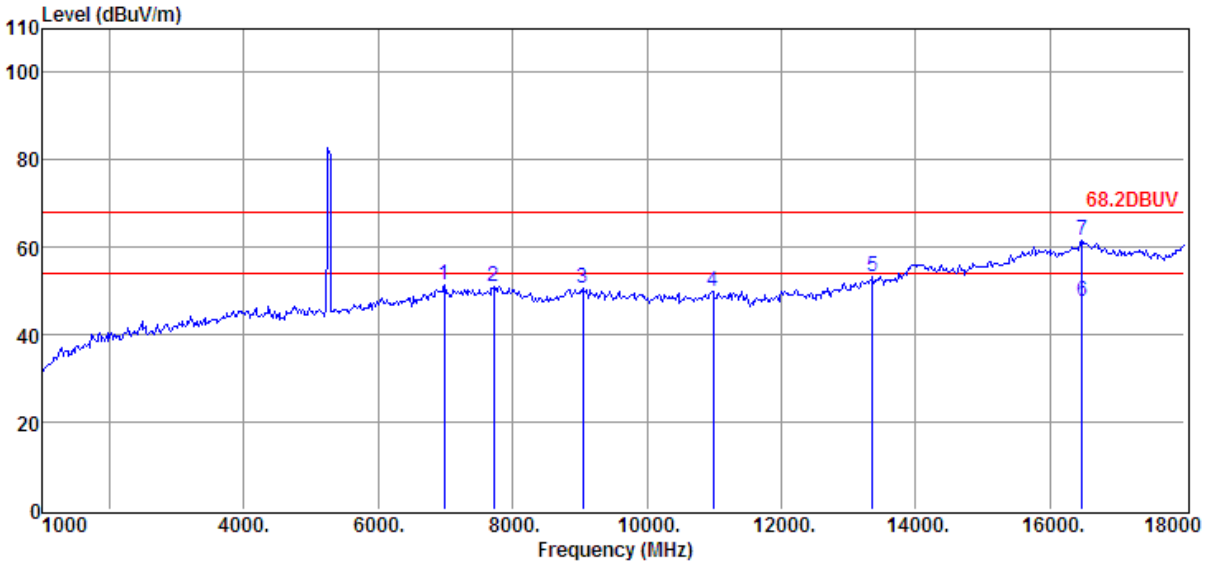


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	6695.00	34.51	35.96	30.14	10.14	50.47	68.20	-17.73	Peak	VERTICAL
2	7375.00	34.62	36.50	30.65	10.75	51.22	68.20	-16.98	Peak	VERTICAL
3	9211.00	34.55	37.03	32.42	12.05	51.21	68.20	-16.99	Peak	VERTICAL
4	12050.00	33.55	37.67	34.82	14.26	50.66	68.20	-17.54	Peak	VERTICAL
5	16521.00	21.56	44.67	36.06	17.51	47.68	54.00	-6.32	Average	VERTICAL
6	16521.00	35.34	44.67	36.06	17.51	61.46	68.20	-6.74	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5260MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/HORIZONTAL
Memo	:		

Data: 12

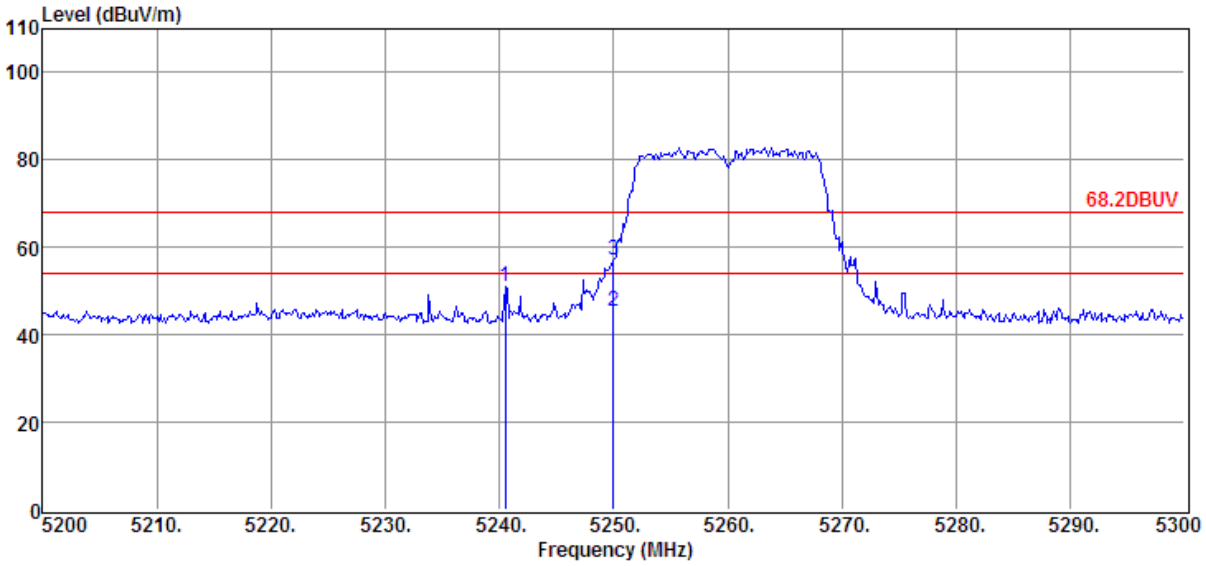


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	6984.00	35.10	36.19	30.38	10.40	51.31	68.20	-16.89	Peak	HORIZONTAL
2	7715.00	34.42	36.64	30.99	10.98	51.05	68.20	-17.15	Peak	HORIZONTAL
3	9041.00	33.80	37.41	32.34	11.87	50.74	68.20	-17.46	Peak	HORIZONTAL
4	10979.00	32.66	37.74	33.92	13.45	49.93	68.20	-18.27	Peak	HORIZONTAL
5	13359.00	34.64	39.16	35.42	14.76	53.14	68.20	-15.06	Peak	HORIZONTAL
6	16470.00	21.55	44.65	35.99	17.46	47.67	54.00	-6.33	Average	HORIZONTAL
7	16470.00	35.35	44.65	35.99	17.46	61.47	68.20	-6.73	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5260MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/HORIZONTAL
Memo	:		

Data: 13

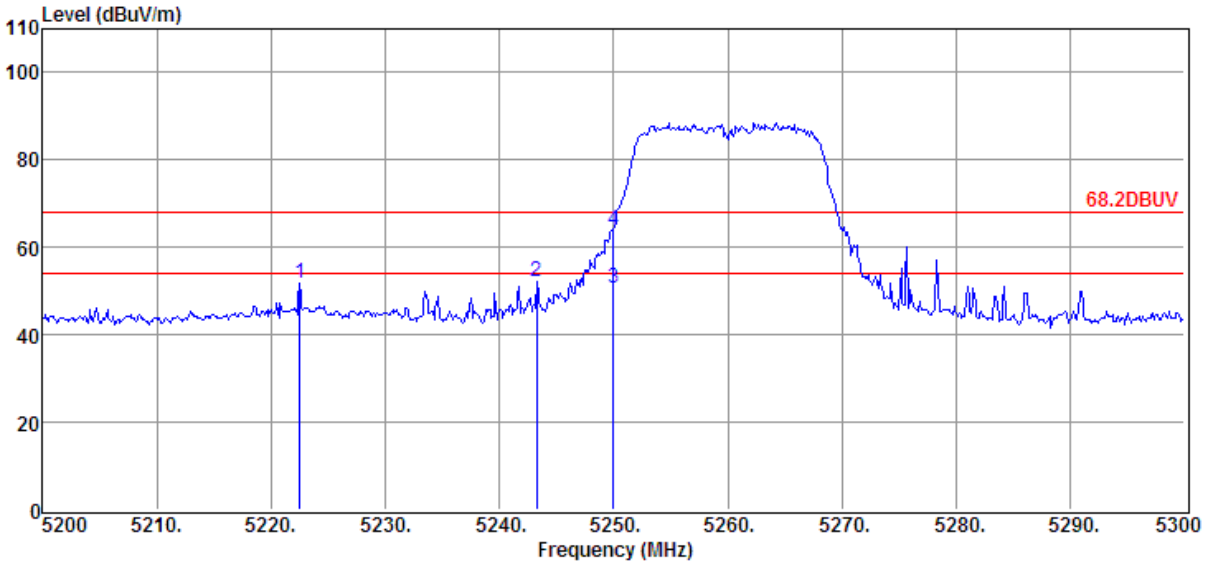


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5240.50	37.17	34.19	29.32	8.93	50.97	68.20	-17.23	Peak	HORIZONTAL
2	5250.00	31.52	34.21	29.32	8.93	45.34	54.00	-8.66	Average	HORIZONTAL
3	5250.00	43.22	34.21	29.32	8.93	57.04	68.20	-11.16	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5260MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/VERTICAL
Memo	:		

Data: 14

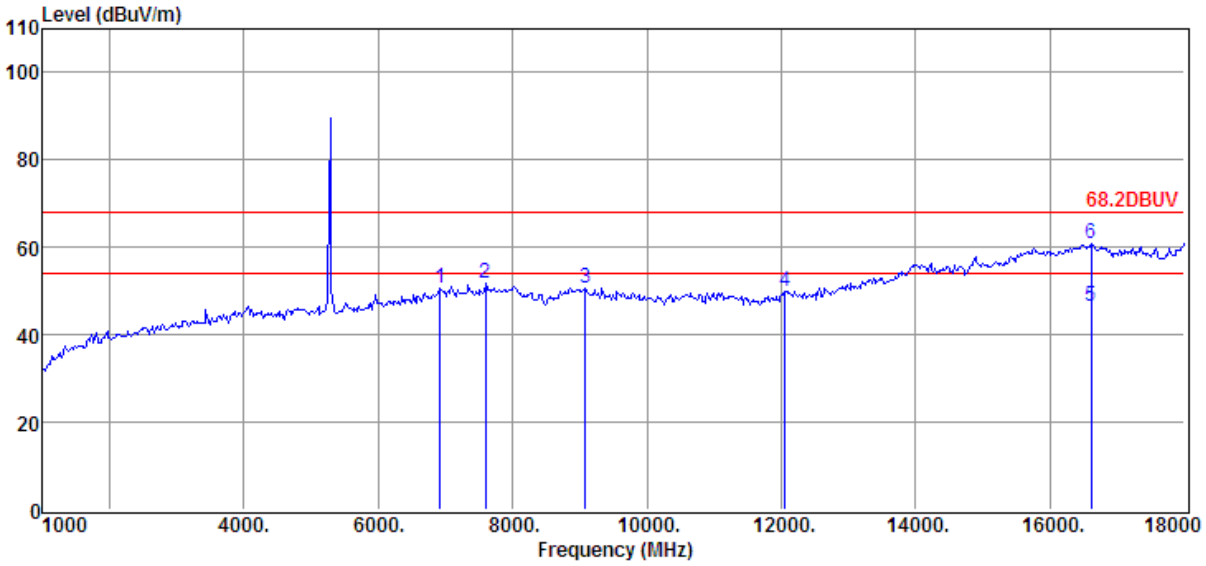


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5222.50	37.95	34.16	29.32	8.91	51.70	68.20	-16.50	Peak	VERTICAL
2	5243.30	38.35	34.20	29.32	8.93	52.16	68.20	-16.04	Peak	VERTICAL
3	5250.00	36.71	34.21	29.32	8.93	50.53	54.00	-3.47	Average	VERTICAL
4	5250.00	50.19	34.21	29.32	8.93	64.01	68.20	-4.19	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5280MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/VERTICAL
Memo	:		

Data: 15

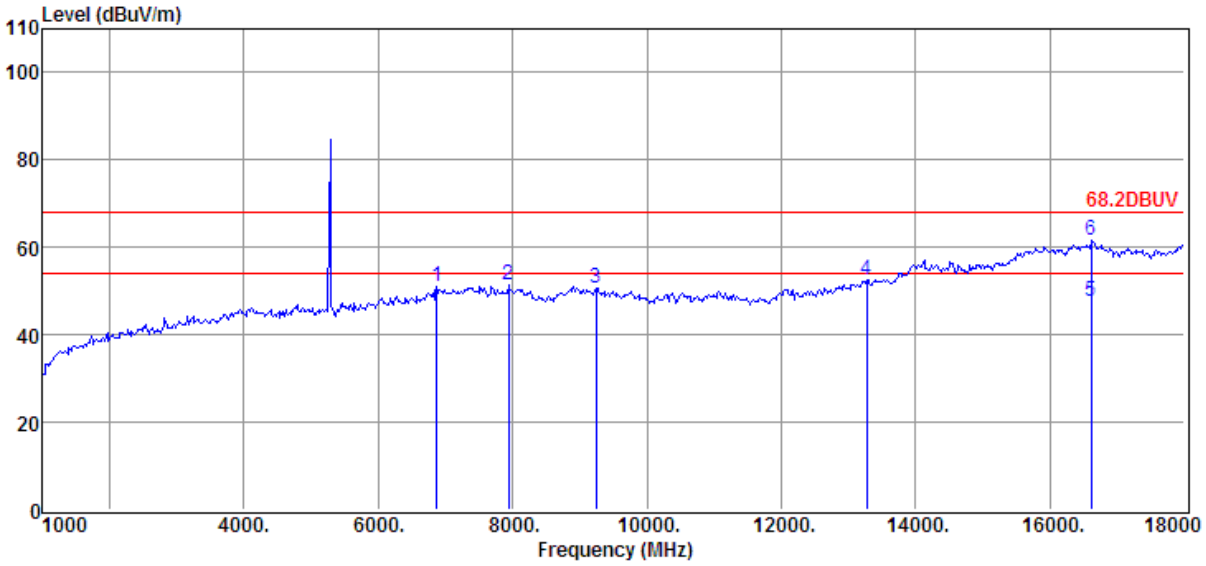


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	6916.00	34.46	36.13	30.33	10.37	50.63	68.20	-17.57	Peak	VERTICAL
2	7596.00	34.99	36.62	30.90	10.91	51.62	68.20	-16.58	Peak	VERTICAL
3	9075.00	33.84	37.33	32.35	11.89	50.71	68.20	-17.49	Peak	VERTICAL
4	12050.00	32.83	37.67	34.82	14.26	49.94	68.20	-18.26	Peak	VERTICAL
5	16606.00	20.36	44.53	36.21	17.71	46.39	54.00	-7.61	Average	VERTICAL
6	16606.00	34.71	44.53	36.21	17.71	60.74	68.20	-7.46	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5280MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/HORIZONTAL
Memo	:		

Data: 16

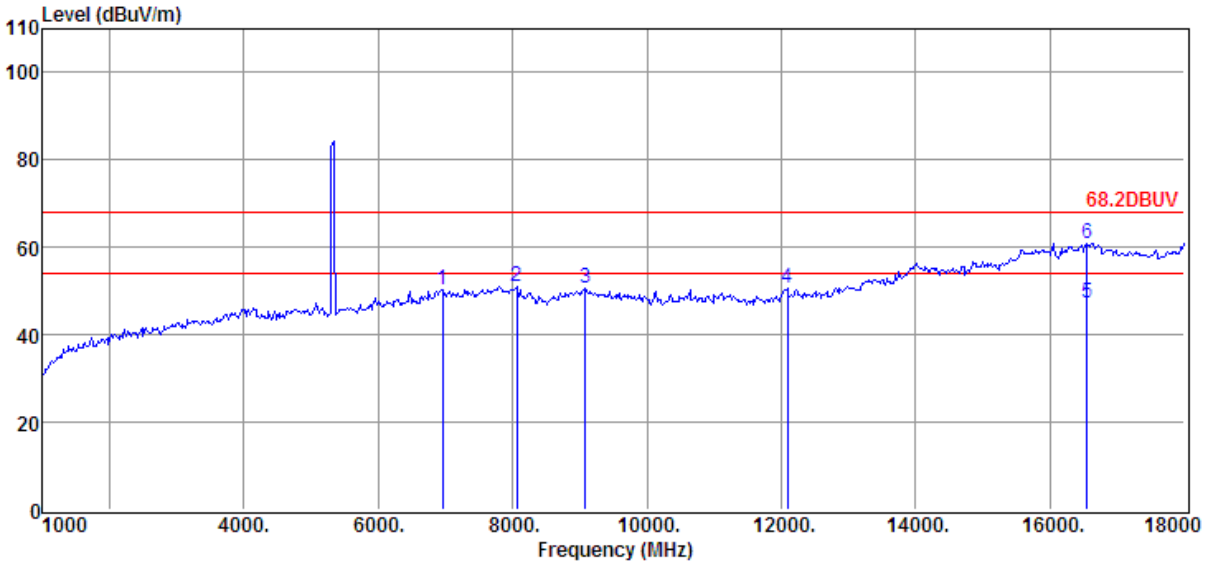


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	6865.00	34.81	36.09	30.28	10.31	50.93	68.20	-17.27	Peak	HORIZONTAL
2	7936.00	34.90	36.69	31.11	11.10	51.58	68.20	-16.62	Peak	HORIZONTAL
3	9245.00	34.20	36.95	32.45	12.09	50.79	68.20	-17.41	Peak	HORIZONTAL
4	13274.00	34.21	39.08	35.50	14.74	52.53	68.20	-15.67	Peak	HORIZONTAL
5	16606.00	21.54	44.53	36.21	17.71	47.57	54.00	-6.43	Average	HORIZONTAL
6	16606.00	35.54	44.53	36.21	17.71	61.57	68.20	-6.63	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5320MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/HORIZONTAL
Memo	:		

Data: 17

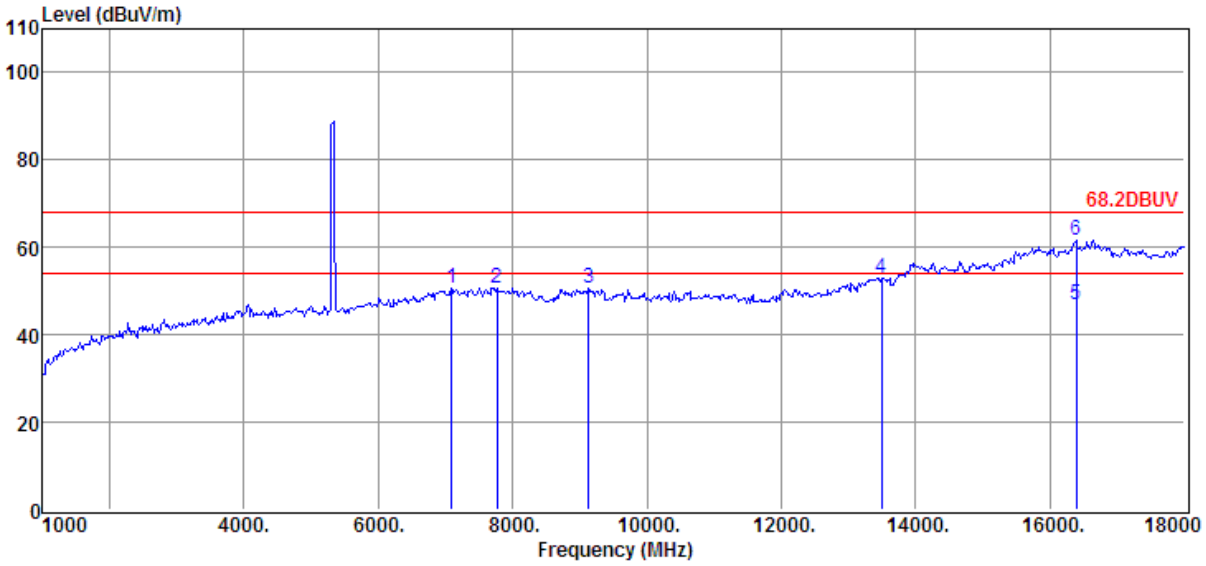


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	6950.00	34.25	36.16	30.34	10.39	50.46	68.20	-17.74	Peak	HORIZONTAL
2	8055.00	34.41	36.54	31.18	11.18	50.95	68.20	-17.25	Peak	HORIZONTAL
3	9075.00	33.95	37.33	32.35	11.89	50.82	68.20	-17.38	Peak	HORIZONTAL
4	12084.00	33.45	37.72	34.85	14.30	50.62	68.20	-17.58	Peak	HORIZONTAL
5	16555.00	21.01	44.61	36.14	17.61	47.09	54.00	-6.91	Average	HORIZONTAL
6	16555.00	34.88	44.61	36.14	17.61	60.96	68.20	-7.24	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5320MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/VERTICAL
Memo	:		

Data: 18

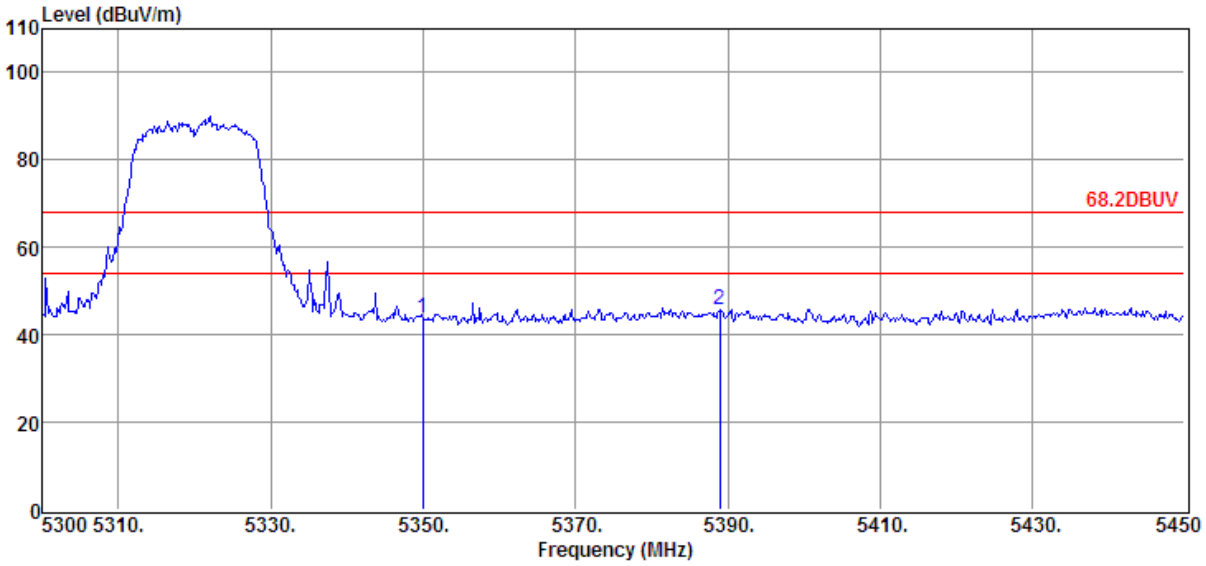


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	7086.00	34.34	36.27	30.42	10.51	50.70	68.20	-17.50	Peak	VERTICAL
2	7766.00	34.19	36.65	31.02	11.01	50.83	68.20	-17.37	Peak	VERTICAL
3	9126.00	33.96	37.22	32.38	11.95	50.75	68.20	-17.45	Peak	VERTICAL
4	13495.00	34.09	39.30	35.22	14.80	52.97	68.20	-15.23	Peak	VERTICAL
5	16385.00	21.03	44.52	35.92	17.40	47.03	54.00	-6.97	Average	VERTICAL
6	16385.00	35.67	44.52	35.92	17.40	61.67	68.20	-6.53	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5320MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/VERTICAL
Memo	:		

Data: 19

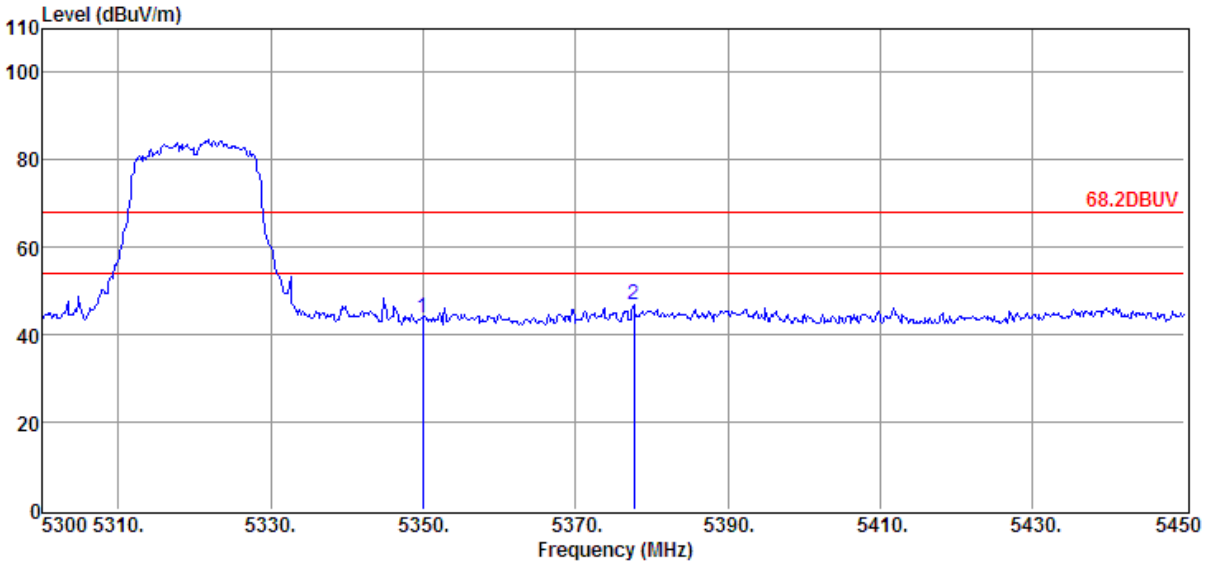


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5349.95	29.70	34.41	29.30	9.03	43.84	68.20	-24.36	Peak	VERTICAL
2	5388.95	31.56	34.49	29.30	9.09	45.84	68.20	-22.36	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5320MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/HORIZONTAL
Memo	:		

Data: 20

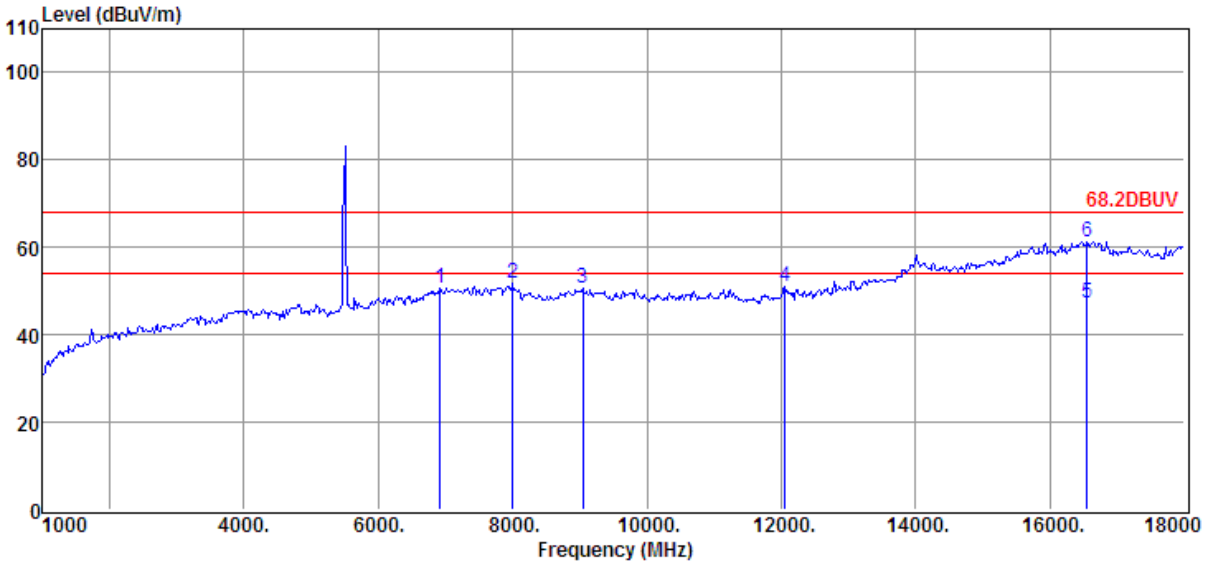


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5349.95	29.89	34.41	29.30	9.03	44.03	68.20	-24.17	Peak	HORIZONTAL
2	5377.70	32.68	34.46	29.30	9.05	46.89	68.20	-21.31	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5500MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/HORIZONTAL
Memo	:		

Data: 21

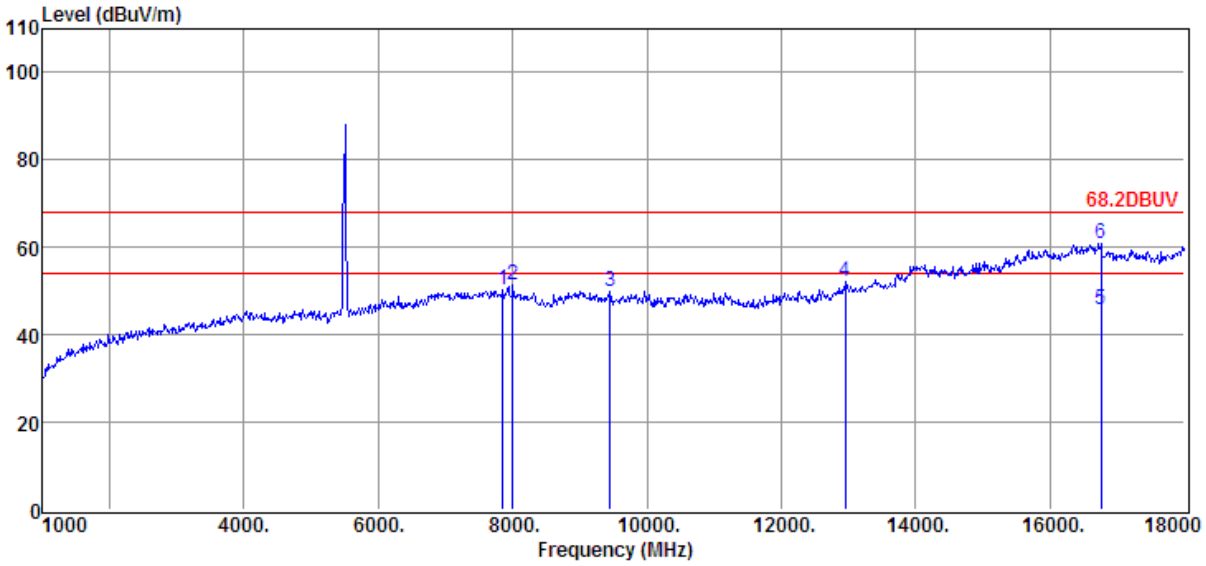


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	6916.00	34.41	36.13	30.33	10.37	50.58	68.20	-17.62	Peak	HORIZONTAL
2	8004.00	35.23	36.69	31.13	11.13	51.92	68.20	-16.28	Peak	HORIZONTAL
3	9041.00	33.87	37.41	32.34	11.87	50.81	68.20	-17.39	Peak	HORIZONTAL
4	12050.00	33.88	37.67	34.82	14.26	50.99	68.20	-17.21	Peak	HORIZONTAL
5	16555.00	21.03	44.61	36.14	17.61	47.11	54.00	-6.89	Average	HORIZONTAL
6	16555.00	35.31	44.61	36.14	17.61	61.39	68.20	-6.81	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5500MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/VERTICAL
Memo	:		

Data: 22

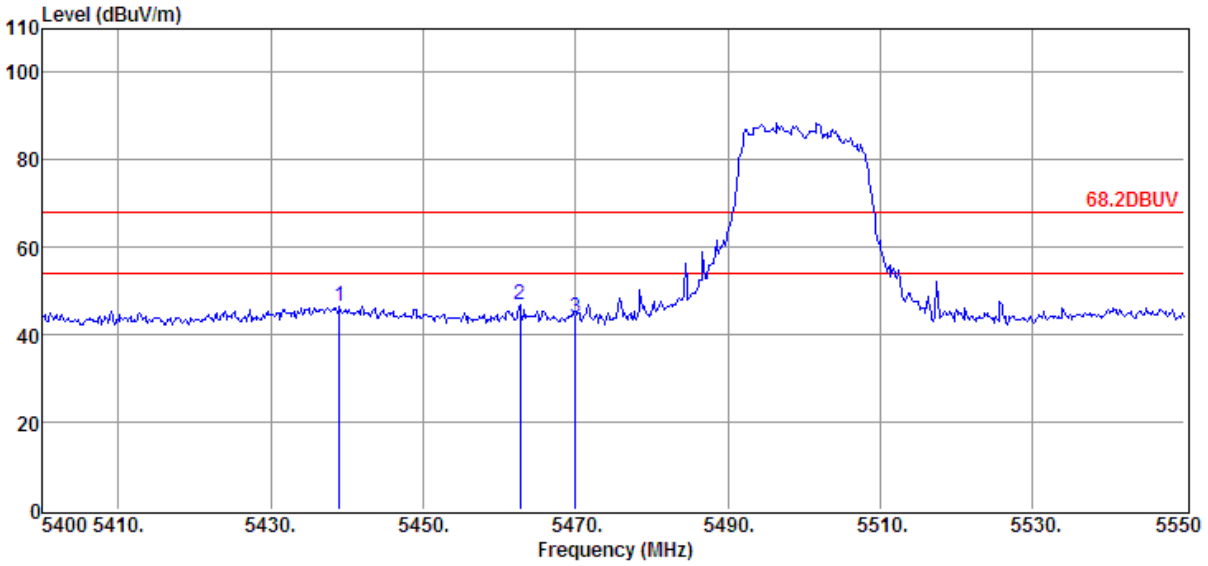


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	7851.00	33.69	36.67	31.07	11.05	50.34	68.20	-17.86	Peak	VERTICAL
2	8004.00	34.70	36.69	31.13	11.13	51.39	68.20	-16.81	Peak	VERTICAL
3	9449.00	33.67	36.51	32.59	12.30	49.89	68.20	-18.31	Peak	VERTICAL
4	12951.00	34.56	38.75	35.70	14.67	52.28	68.20	-15.92	Peak	VERTICAL
5	16759.00	20.04	44.28	36.45	17.97	45.84	54.00	-8.16	Average	VERTICAL
6	16759.00	35.11	44.28	36.45	17.97	60.91	68.20	-7.29	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5500MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/VERTICAL
Memo	:		

Data: 23

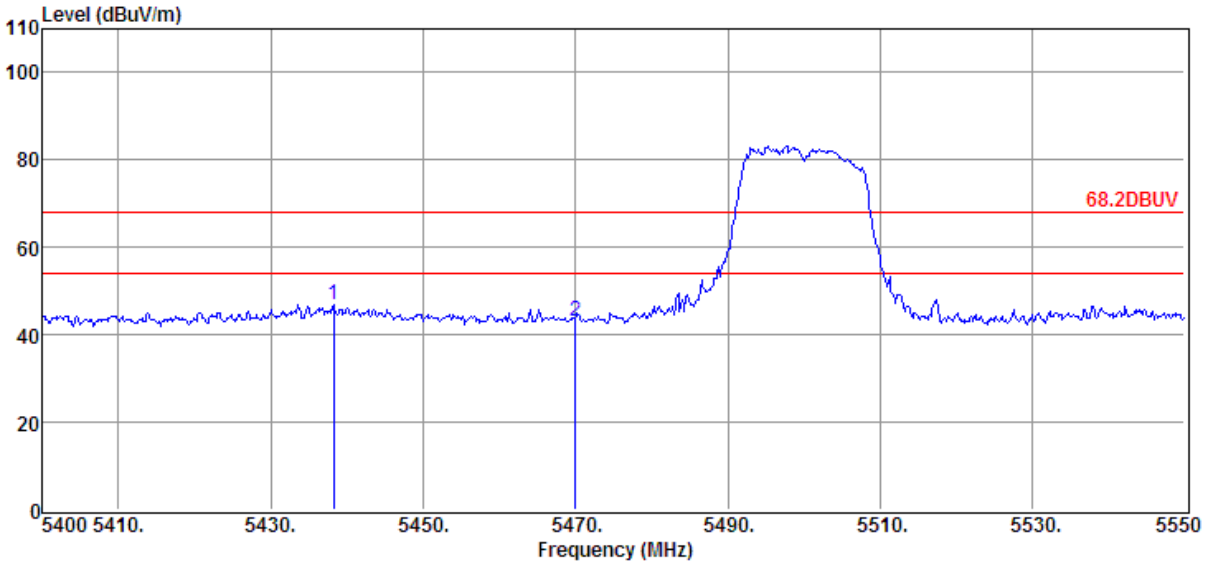


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5439.00	32.00	34.58	29.28	9.14	46.44	68.20	-21.76	Peak	VERTICAL
2	5462.70	32.38	34.63	29.28	9.16	46.89	68.20	-21.31	Peak	VERTICAL
3	5470.05	29.14	34.64	29.27	9.16	43.67	68.20	-24.53	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5500MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/HORIZONTAL
Memo	:		

Data: 24

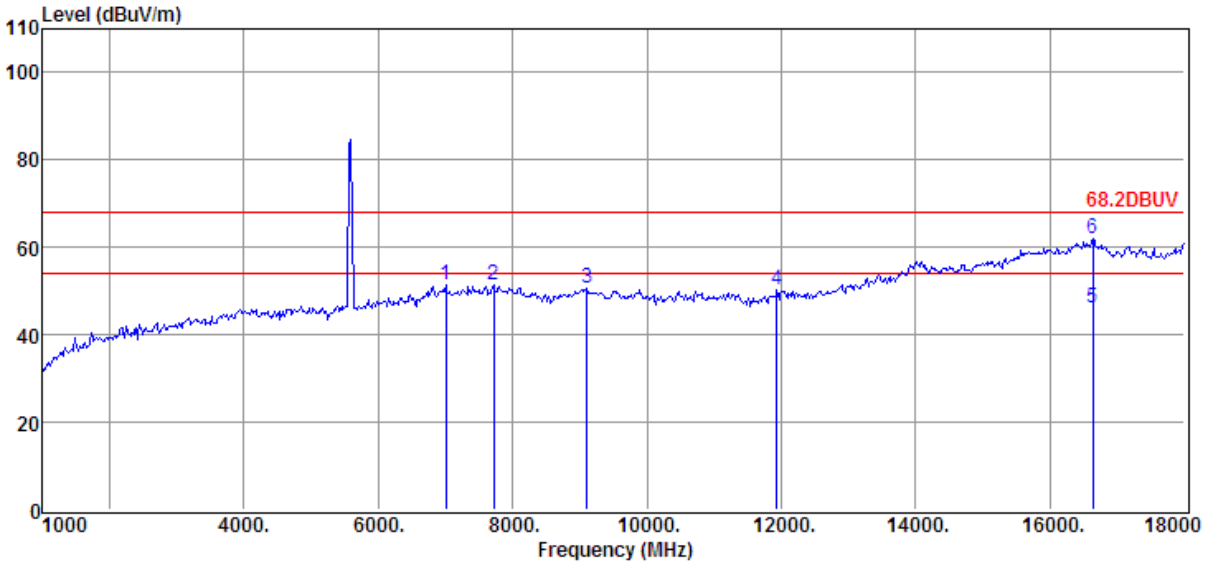


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5438.25	32.59	34.58	29.28	9.14	47.03	68.20	-21.17	Peak	HORIZONTAL
2	5470.05	28.44	34.64	29.27	9.16	42.97	68.20	-25.23	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5580MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/HORIZONTAL
Memo	:		

Data: 25

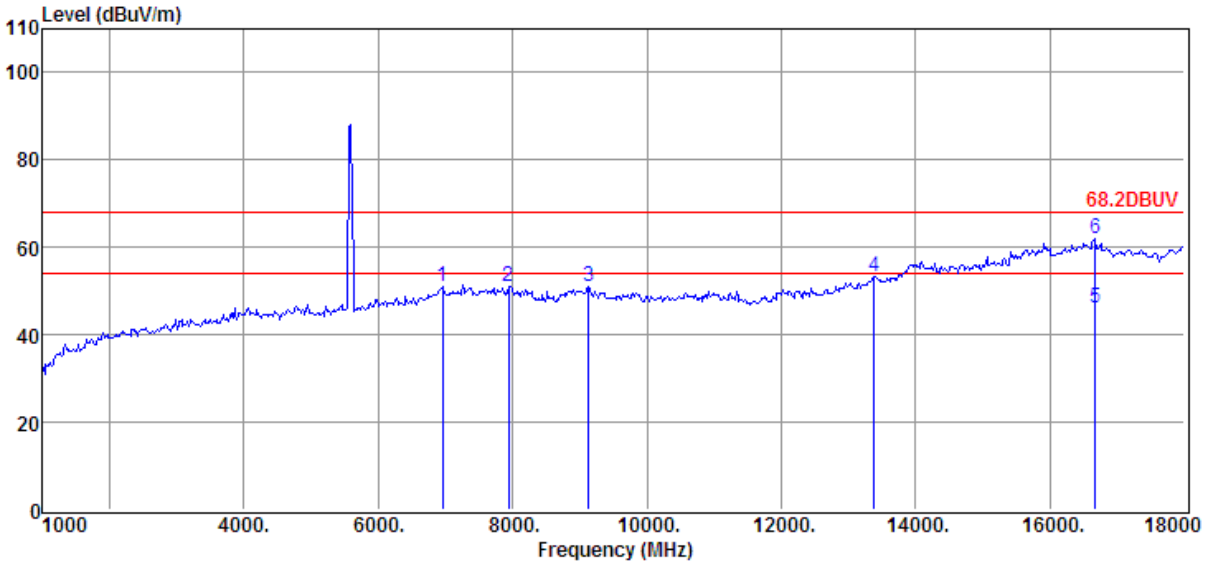


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	7001.00	34.98	36.20	30.39	10.44	51.23	68.20	-16.97	Peak	HORIZONTAL
2	7715.00	34.67	36.64	30.99	10.98	51.30	68.20	-16.90	Peak	HORIZONTAL
3	9109.00	33.84	37.26	32.36	11.95	50.69	68.20	-17.51	Peak	HORIZONTAL
4	11931.00	33.44	37.48	34.77	14.16	50.31	68.20	-17.89	Peak	HORIZONTAL
5	16640.00	20.15	44.47	36.28	17.74	46.08	54.00	-7.92	Average	HORIZONTAL
6	16640.00	35.94	44.47	36.28	17.74	61.87	68.20	-6.33	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5580MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/VERTICAL
Memo	:		

Data: 26

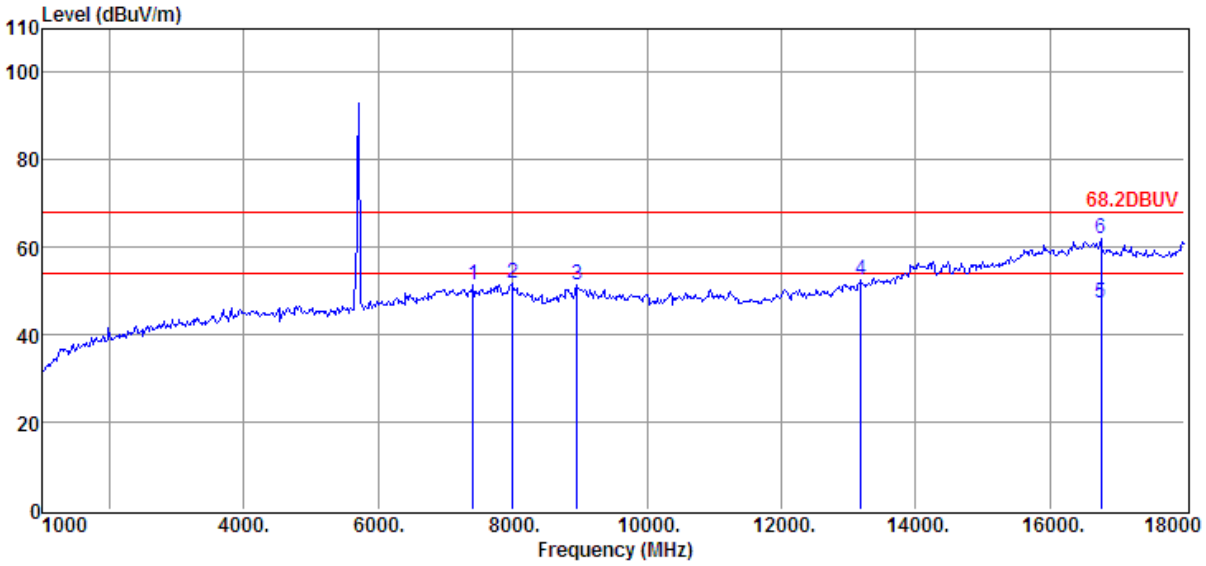


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	6950.00	34.77	36.16	30.34	10.39	50.98	68.20	-17.22	Peak	VERTICAL
2	7936.00	34.42	36.69	31.11	11.10	51.10	68.20	-17.10	Peak	VERTICAL
3	9126.00	34.29	37.22	32.38	11.95	51.08	68.20	-17.12	Peak	VERTICAL
4	13376.00	34.90	39.18	35.38	14.76	53.46	68.20	-14.74	Peak	VERTICAL
5	16674.00	20.14	44.42	36.28	17.84	46.12	54.00	-7.88	Average	VERTICAL
6	16674.00	35.91	44.42	36.28	17.84	61.89	68.20	-6.31	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5700MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/VERTICAL
Memo	:		

Data: 27

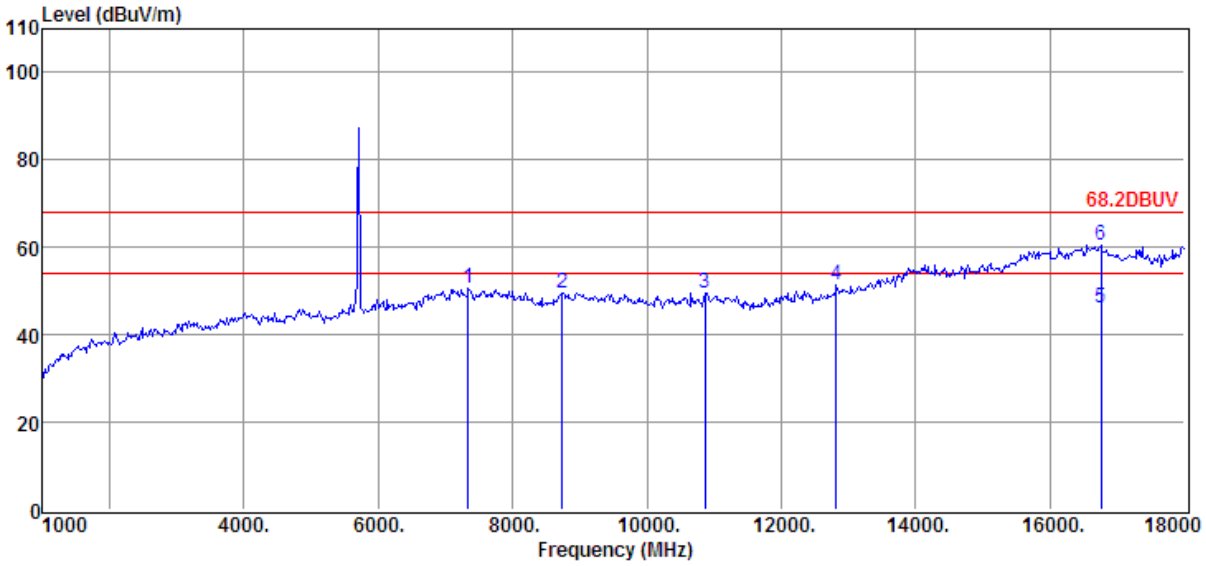


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	7409.00	34.67	36.53	30.67	10.78	51.31	68.20	-16.89	Peak	VERTICAL
2	8004.00	34.96	36.69	31.13	11.13	51.65	68.20	-16.55	Peak	VERTICAL
3	8956.00	34.44	37.31	32.28	11.79	51.26	68.20	-16.94	Peak	VERTICAL
4	13189.00	34.38	38.99	35.57	14.72	52.52	68.20	-15.68	Peak	VERTICAL
5	16759.00	21.37	44.28	36.45	17.97	47.17	54.00	-6.83	Average	VERTICAL
6	16759.00	36.12	44.28	36.45	17.97	61.92	68.20	-6.28	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5700MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/HORIZONTAL
Memo	:		

Data: 28

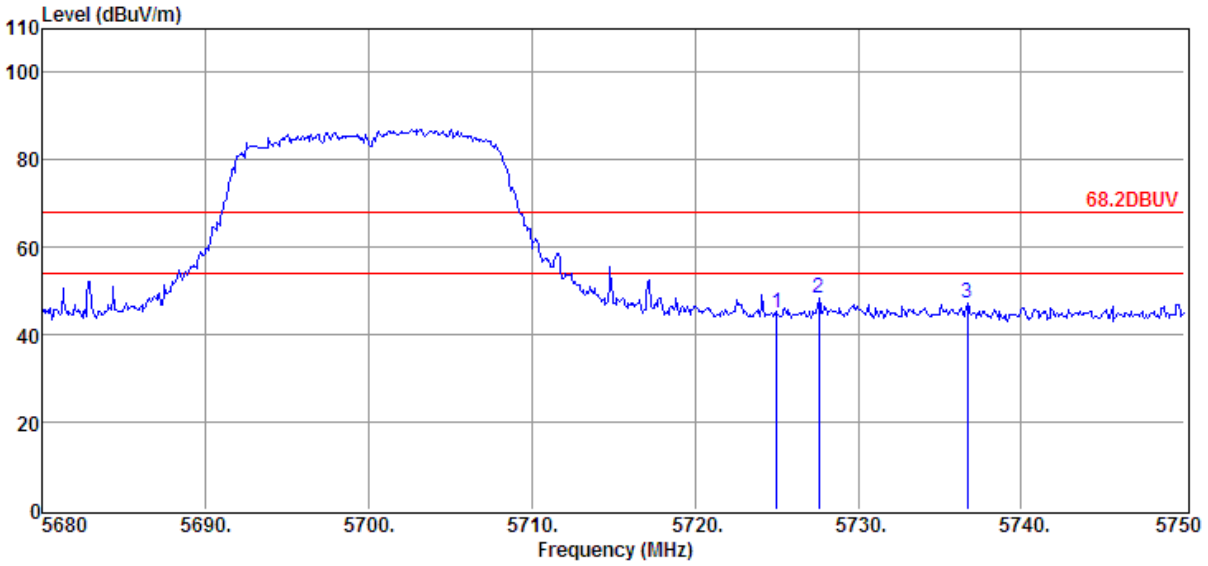


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	7341.00	33.97	36.48	30.59	10.72	50.58	68.20	-17.62	Peak	HORIZONTAL
2	8735.00	33.53	36.35	32.07	11.73	49.54	68.20	-18.66	Peak	HORIZONTAL
3	10860.00	32.50	37.41	33.69	13.28	49.50	68.20	-18.70	Peak	HORIZONTAL
4	12815.00	33.71	38.62	35.58	14.66	51.41	68.20	-16.79	Peak	HORIZONTAL
5	16759.00	20.37	44.28	36.45	17.97	46.17	54.00	-7.83	Average	HORIZONTAL
6	16759.00	34.73	44.28	36.45	17.97	60.53	68.20	-7.67	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5700MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/HORIZONTAL
Memo	:		

Data: 29

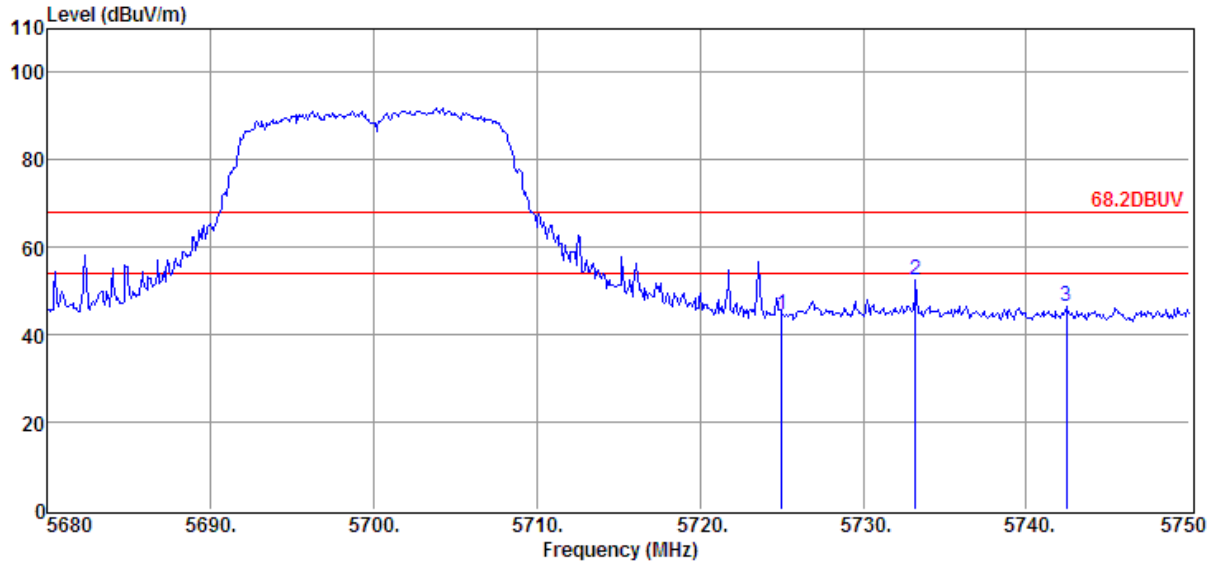


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5725.01	29.97	34.84	29.22	9.41	45.00	68.20	-23.20	Peak	HORIZONTAL
2	5727.60	33.20	34.84	29.22	9.41	48.23	68.20	-19.97	Peak	HORIZONTAL
3	5736.70	32.04	34.85	29.21	9.43	47.11	68.20	-21.09	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5700MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/VERTICAL
Memo	:		

Data: 30

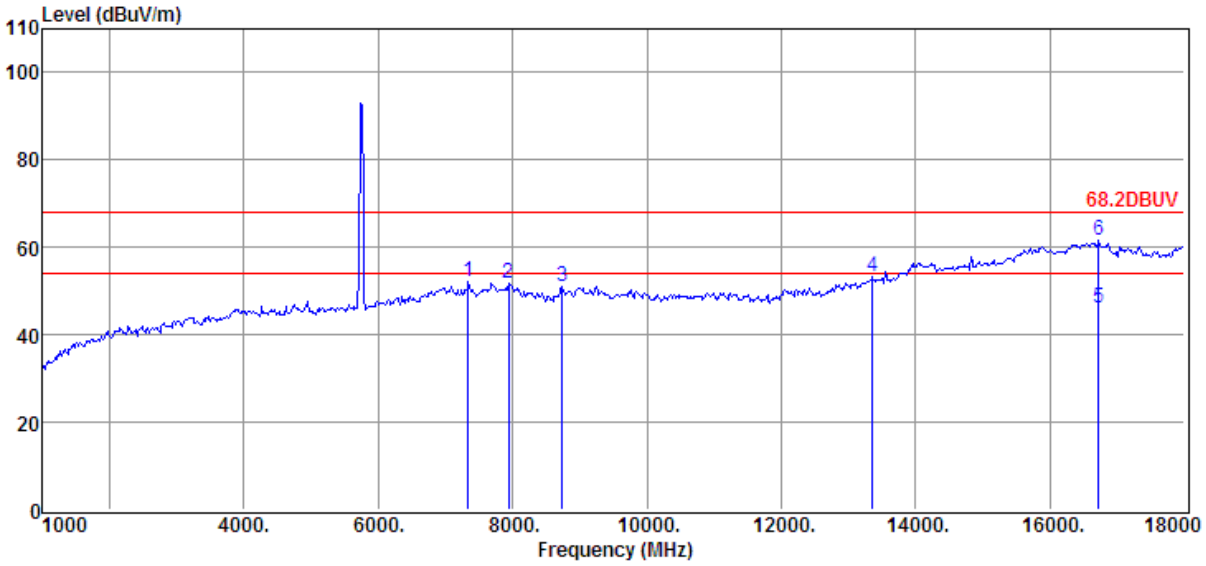


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5725.01	29.71	34.84	29.22	9.41	44.74	68.20	-23.46	Peak	VERTICAL
2	5733.20	37.42	34.84	29.21	9.41	52.46	68.20	-15.74	Peak	VERTICAL
3	5742.44	31.32	34.85	29.21	9.43	46.39	68.20	-21.81	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5745MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/VERTICAL
Memo	:		

Data: 31

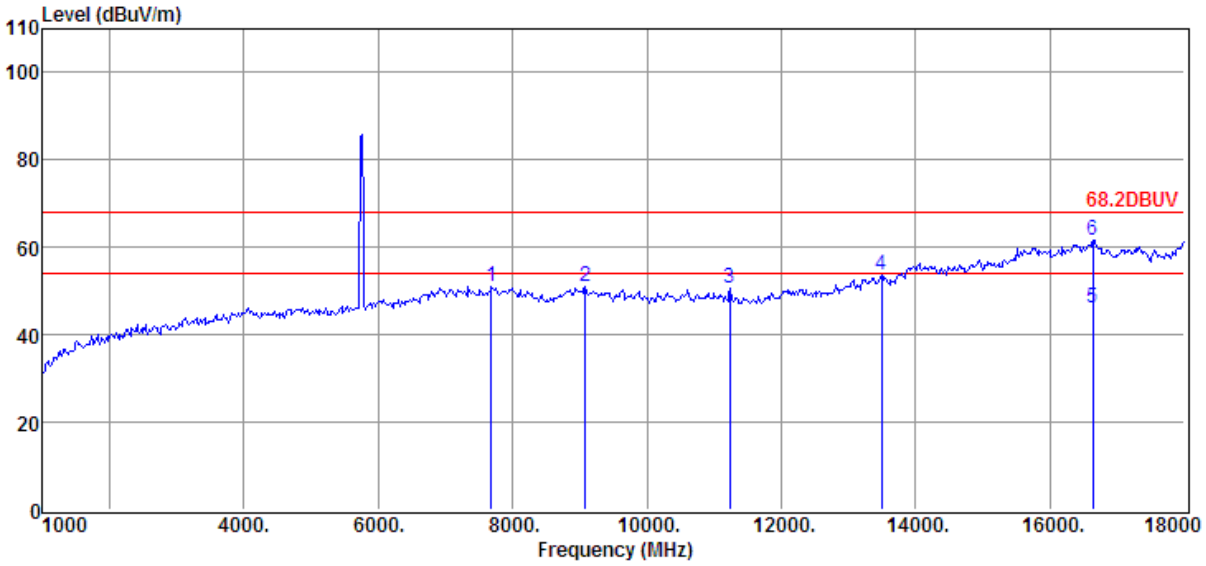


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	7341.00	35.42	36.48	30.59	10.72	52.03	68.20	-16.17	Peak	VERTICAL
2	7936.00	35.06	36.69	31.11	11.10	51.74	68.20	-16.46	Peak	VERTICAL
3	8735.00	35.19	36.35	32.07	11.73	51.20	68.20	-17.00	Peak	VERTICAL
4	13359.00	34.88	39.16	35.42	14.76	53.38	68.20	-14.82	Peak	VERTICAL
5	16725.00	20.16	44.34	36.34	17.94	46.10	54.00	-7.90	Average	VERTICAL
6	16725.00	35.65	44.34	36.34	17.94	61.59	68.20	-6.61	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5745MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/HORIZONTAL
Memo	:		

Data: 32

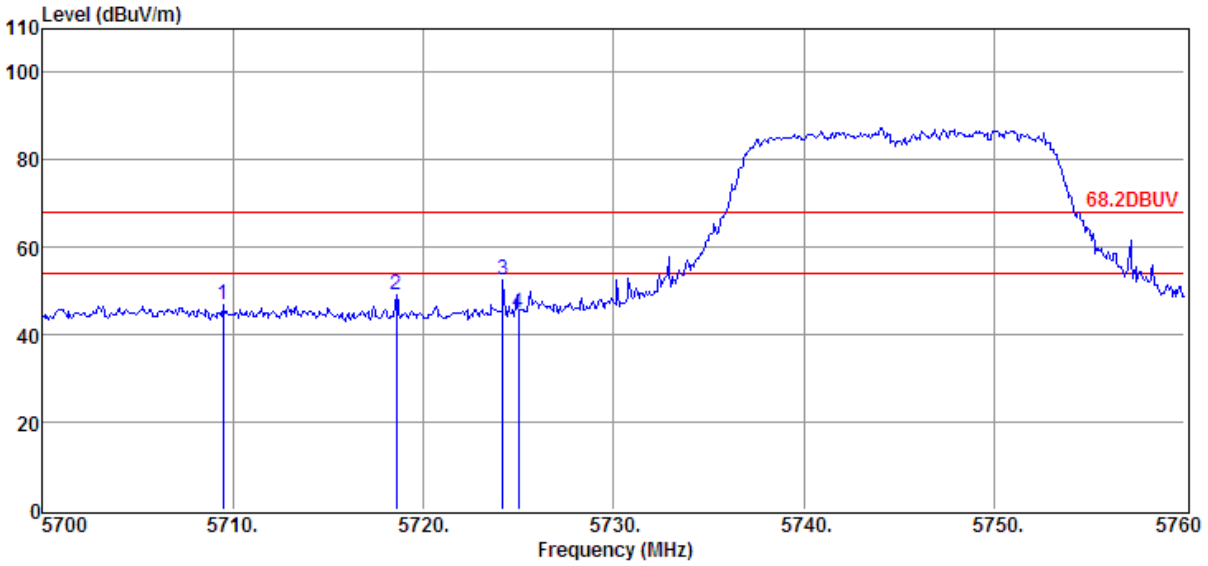


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	7681.00	34.47	36.64	30.96	10.95	51.10	68.20	-17.10	Peak	HORIZONTAL
2	9075.00	34.01	37.33	32.35	11.89	50.88	68.20	-17.32	Peak	HORIZONTAL
3	11234.00	33.95	37.28	34.25	13.53	50.51	68.20	-17.69	Peak	HORIZONTAL
4	13495.00	34.90	39.30	35.22	14.80	53.78	68.20	-14.42	Peak	HORIZONTAL
5	16640.00	20.35	44.47	36.28	17.74	46.28	54.00	-7.72	Average	HORIZONTAL
6	16640.00	35.74	44.47	36.28	17.74	61.67	68.20	-6.53	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5745MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/HORIZONTAL
Memo	:		

Data: 33

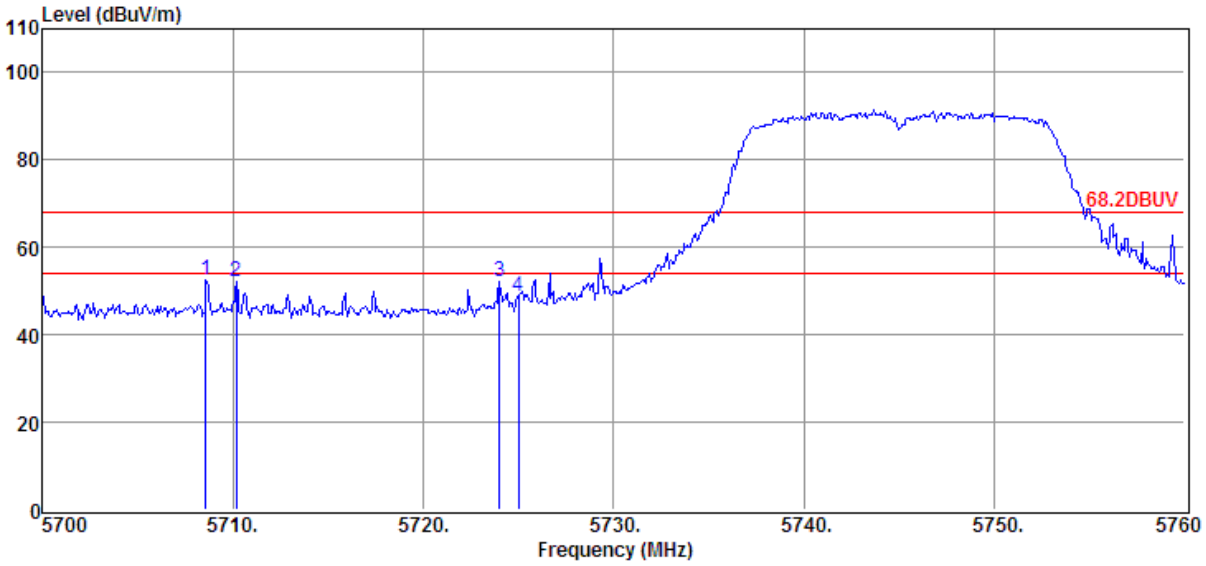


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5709.48	32.06	34.83	29.22	9.38	47.05	68.20	-21.15	Peak	HORIZONTAL
2	5718.60	34.30	34.83	29.22	9.41	49.32	68.20	-18.88	Peak	HORIZONTAL
3	5724.18	37.50	34.84	29.22	9.41	52.53	68.20	-15.67	Peak	HORIZONTAL
4	5725.02	29.82	34.84	29.22	9.41	44.85	68.20	-23.35	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5745MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/VERTICAL
Memo	:		

Data: 34

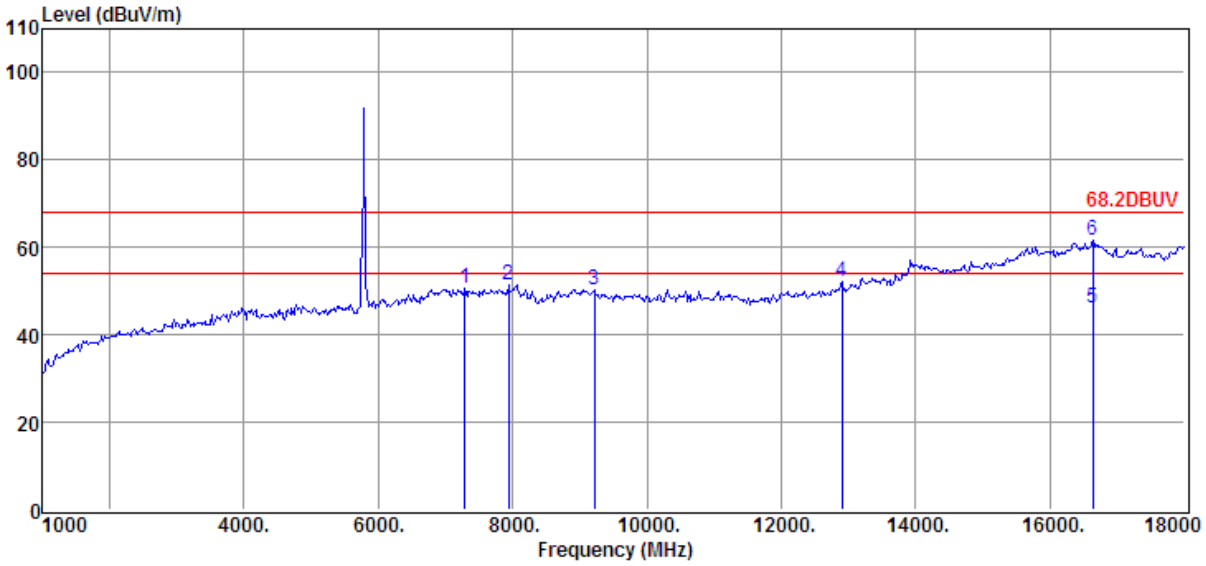


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5708.58	37.72	34.83	29.22	9.38	52.71	68.20	-15.49	Peak	VERTICAL
2	5710.20	37.22	34.83	29.22	9.38	52.21	68.20	-15.99	Peak	VERTICAL
3	5724.00	37.04	34.84	29.22	9.41	52.07	68.20	-16.13	Peak	VERTICAL
4	5725.02	33.69	34.84	29.22	9.41	48.72	68.20	-19.48	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5785MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/VERTICAL
Memo	:		

Data: 35

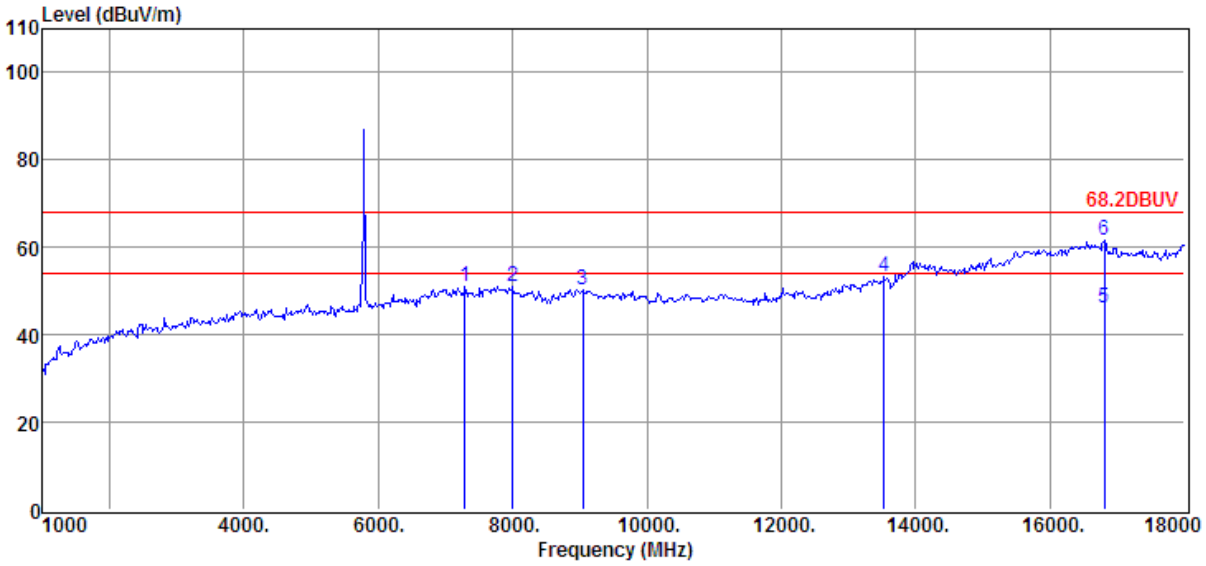


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	7290.00	34.10	36.44	30.55	10.68	50.67	68.20	-17.53	Peak	VERTICAL
2	7936.00	34.74	36.69	31.11	11.10	51.42	68.20	-16.78	Peak	VERTICAL
3	9211.00	33.71	37.03	32.42	12.05	50.37	68.20	-17.83	Peak	VERTICAL
4	12900.00	34.46	38.70	35.64	14.66	52.18	68.20	-16.02	Peak	VERTICAL
5	16640.00	20.36	44.47	36.28	17.74	46.29	54.00	-7.71	Average	VERTICAL
6	16640.00	35.67	44.47	36.28	17.74	61.60	68.20	-6.60	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5785MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/HORIZONTAL
Memo	:		

Data: 36

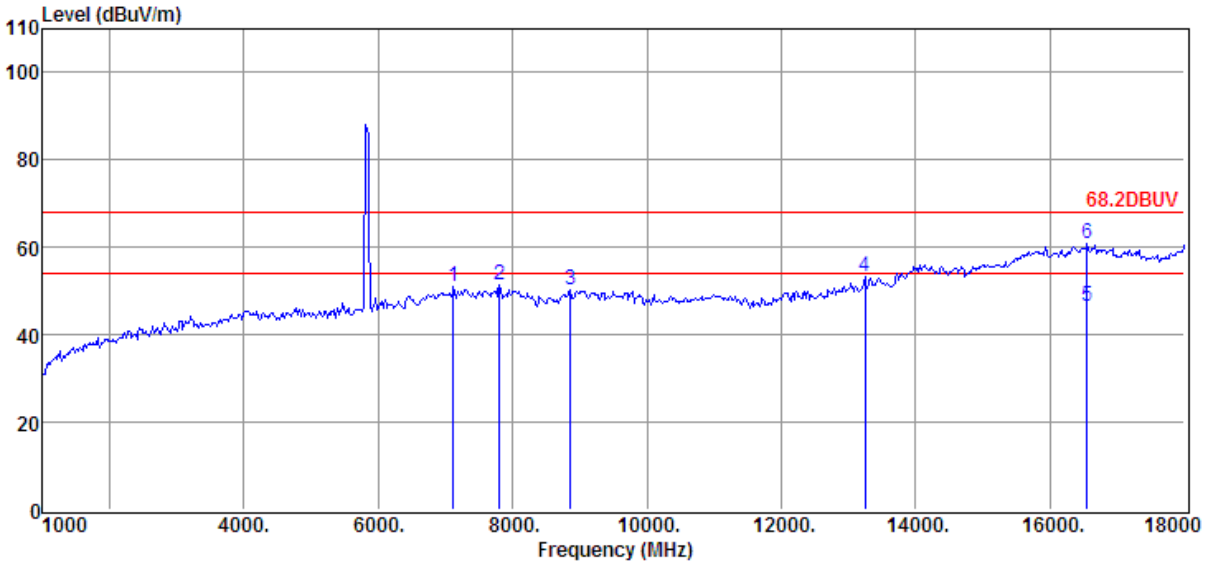


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	7290.00	34.33	36.44	30.55	10.68	50.90	68.20	-17.30	Peak	HORIZONTAL
2	8004.00	34.44	36.69	31.13	11.13	51.13	68.20	-17.07	Peak	HORIZONTAL
3	9041.00	33.21	37.41	32.34	11.87	50.15	68.20	-18.05	Peak	HORIZONTAL
4	13529.00	34.31	39.33	35.17	14.81	53.28	68.20	-14.92	Peak	HORIZONTAL
5	16810.00	20.35	44.20	36.50	18.07	46.12	54.00	-7.88	Average	HORIZONTAL
6	16810.00	35.69	44.20	36.50	18.07	61.46	68.20	-6.74	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5825MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/HORIZONTAL
Memo	:		

Data: 37

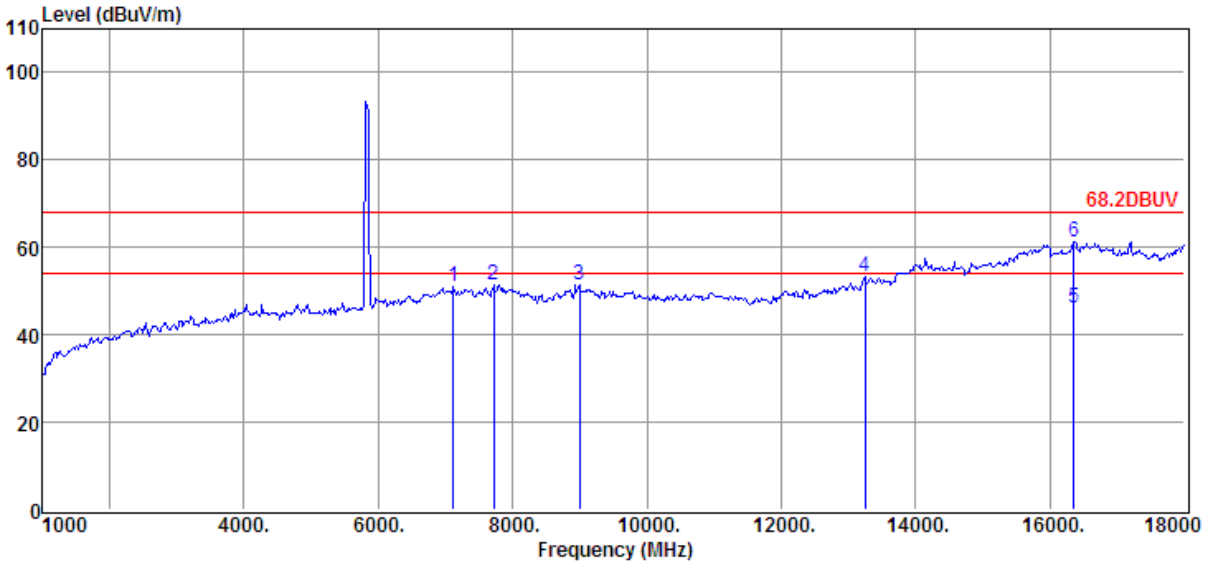


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	7120.00	34.53	36.30	30.44	10.55	50.94	68.20	-17.26	Peak	HORIZONTAL
2	7800.00	34.73	36.66	31.04	11.02	51.37	68.20	-16.83	Peak	HORIZONTAL
3	8854.00	33.99	36.87	32.22	11.76	50.40	68.20	-17.80	Peak	HORIZONTAL
4	13240.00	34.91	39.04	35.50	14.73	53.18	68.20	-15.02	Peak	HORIZONTAL
5	16555.00	20.54	44.61	36.14	17.61	46.62	54.00	-7.38	Average	HORIZONTAL
6	16555.00	34.61	44.61	36.14	17.61	60.69	68.20	-7.51	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5825MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/VERTICAL
Memo	:		

Data: 38

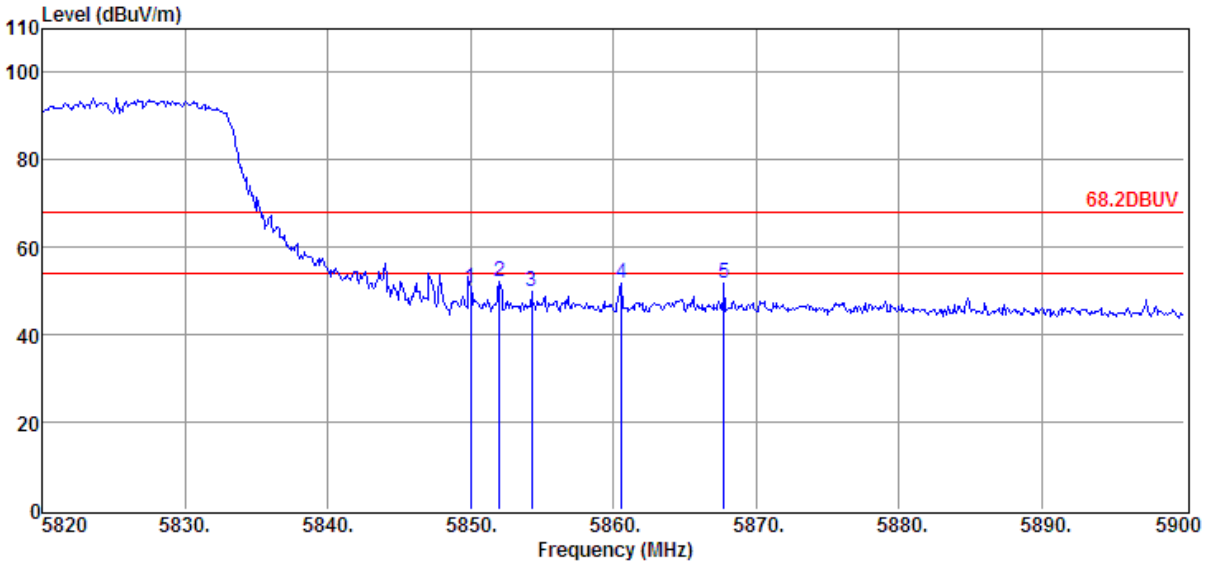


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	7120.00	34.53	36.30	30.44	10.55	50.94	68.20	-17.26	Peak	VERTICAL
2	7715.00	34.80	36.64	30.99	10.98	51.43	68.20	-16.77	Peak	VERTICAL
3	8990.00	34.60	37.46	32.32	11.81	51.55	68.20	-16.65	Peak	VERTICAL
4	13240.00	34.91	39.04	35.50	14.73	53.18	68.20	-15.02	Peak	VERTICAL
5	16351.00	20.19	44.46	35.86	17.38	46.17	54.00	-7.83	Average	VERTICAL
6	16351.00	35.15	44.46	35.86	17.38	61.13	68.20	-7.07	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5825MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/VERTICAL
Memo	:		

Data: 39

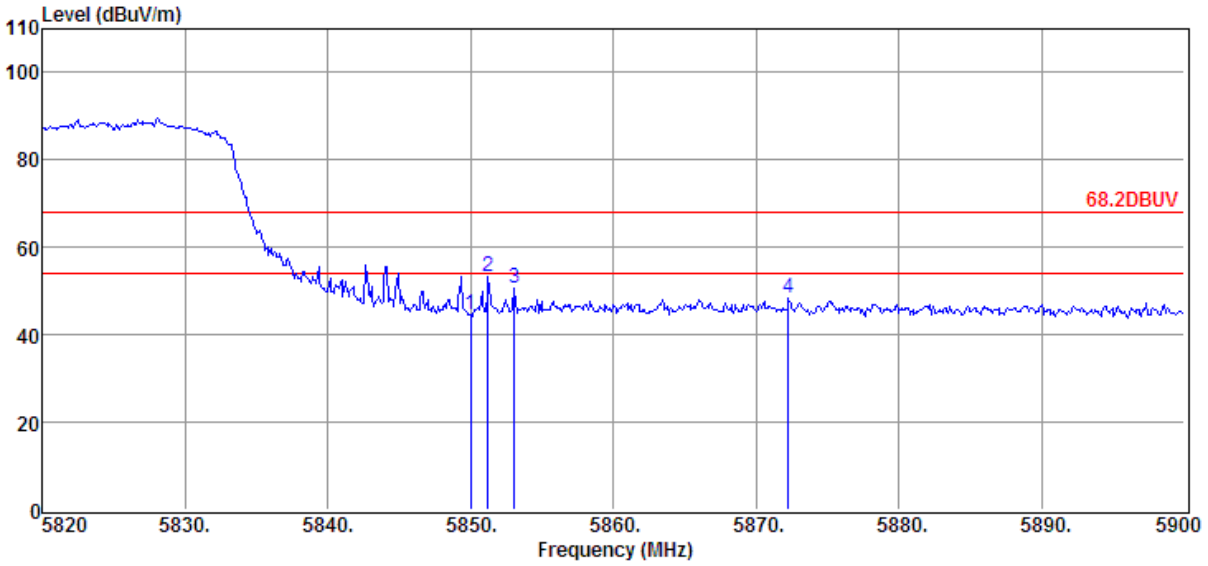


Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5850.00	35.24	34.91	29.20	9.54	50.49	68.20	-17.71	Peak	VERTICAL
2	5852.00	37.06	34.91	29.20	9.54	52.31	68.20	-15.89	Peak	VERTICAL
3	5854.24	34.82	34.92	29.20	9.54	50.08	68.20	-18.12	Peak	VERTICAL
4	5860.56	36.59	34.92	29.20	9.56	51.87	68.20	-16.33	Peak	VERTICAL
5	5867.76	36.45	34.92	29.20	9.56	51.73	68.20	-16.47	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Power Supply	: 3.8Vdc	**Test Mode**	: TX MODE 11a 5825MHz
Condition	: Temp:24.5'C,Humi:55%, Press:100.1kPa	**Antenna/Distance**	: 2016 HF907/3m/HORIZONTAL
Memo	:		

Data: 40



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	5850.00	29.52	34.91	29.20	9.54	44.77	68.20	-23.43	Peak	HORIZONTAL
2	5851.20	37.87	34.91	29.20	9.54	53.12	68.20	-15.08	Peak	HORIZONTAL
3	5853.04	35.22	34.91	29.20	9.54	50.47	68.20	-17.73	Peak	HORIZONTAL
4	5872.24	32.92	34.93	29.20	9.56	48.21	68.20	-19.99	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Note 1: The higher frequency, which started from 18GHz to 40GHz, was pre-scanned and the result which was 20dB lower than the limit line and was not reported.

Note 2: EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

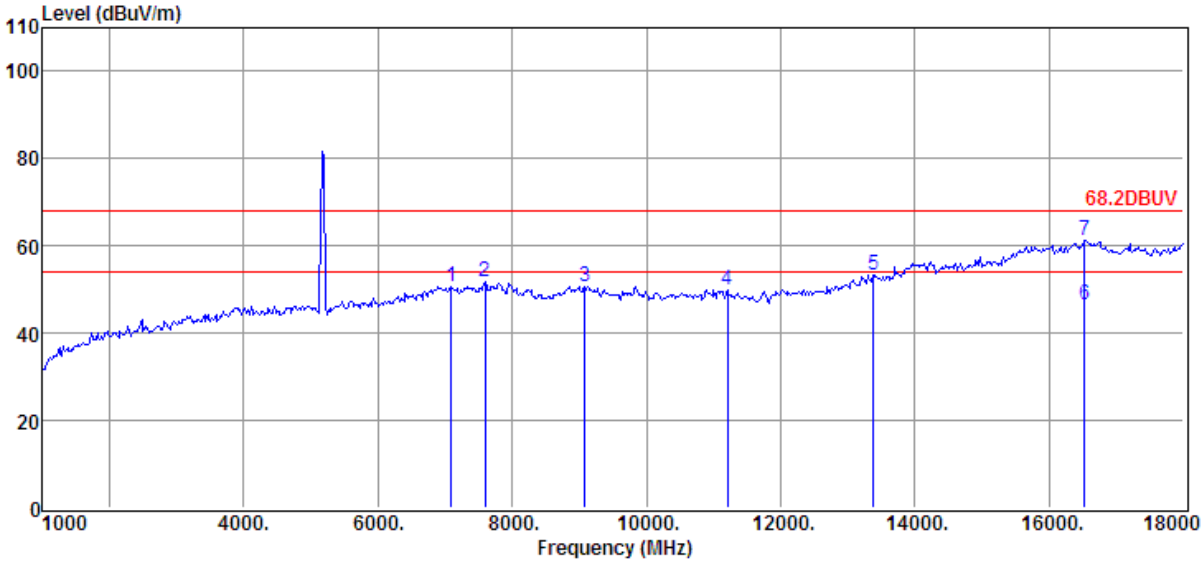
6.5.2. 802.11n HT 20/HT 40 MODE

Power Supply : 3.8Vdc **Test Mode** : TX MODE 11n 20 5180MHz

Condition : Temp:24.5'C,Humi:55%, Press:100.1kPa **Antenna/Distance** : 2016 HF907/3m/HORIZONTAL

Memo :

Data: 1



Item (Mark)	Freq. (MHz)	Read Level (dBµV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
1	7086.00	34.25	36.27	30.42	10.51	50.61	68.20	-17.59	Peak	HORIZONTAL
2	7596.00	35.09	36.62	30.90	10.91	51.72	68.20	-16.48	Peak	HORIZONTAL
3	9075.00	33.89	37.33	32.35	11.89	50.76	68.20	-17.44	Peak	HORIZONTAL
4	11200.00	33.38	37.35	34.25	13.52	50.00	68.20	-18.20	Peak	HORIZONTAL
5	13376.00	34.88	39.18	35.38	14.76	53.44	68.20	-14.76	Peak	HORIZONTAL
6	16521.00	20.26	44.67	36.06	17.51	46.38	54.00	-7.62	Average	HORIZONTAL
7	16521.00	35.05	44.67	36.06	17.51	61.17	68.20	-7.03	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.