Test Report

Product:	Wireless Carplay/Android Auto Adapter
Trade Mark:	N/A
Model Number:	SYY01
FCC ID:	2BFFG-SYY01

Prepared for

Shenzhen Sanyue Yunxiang Industrial Co., Ltd

Rm 305, Bldg 414, Bagualing Industrial Zone, Bagua 4th Rd, Hualin Community, Yuanling St, Futian Dist, Shenzhen

Prepared by

Shenzhen HongBiao Certification& Testing Co., Ltd

Room 102, 201, Building 2, Yuanwanggu RFID Industrial Park, Tongguan Road, Tianliao Community, Yutang Street, Guangming District, Shenzhen, China

Tel.: +86-755-2998 9321 Fax.: +86-755-2998 5110

Website: http://www.sz-hongbiao.com

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TEST RESULT CERTIFICATION

Applicant's Name..... :	Shenzhen Sanyue Yunxiang Industrial Co., Ltd
Address ..... :	Rm 305, Bldg 414, Bagualing Industrial Zone, Bagua 4th Rd, Hualin Community, Yuanling St, Futian Dist, Shenzhen
Manufacturer's Name ..... :	Shenzhen Sanyue Yunxiang Industrial Co., Ltd
Address ..... :	Rm 305, Bldg 414, Bagualing Industrial Zone, Bagua 4th Rd, Hualin Community, Yuanling St, Futian Dist, Shenzhen

Product description

Product name ..... :	Wireless Carplay/Android Auto Adapter
Model Number ..... :	SYY01
Standards ..... :	FCC Part 15.407
Test procedure..... :	IEEE/ANSI C63.10-2020 KDB 789033 D02 v02r01

This device described above has been tested by Shenzhen HongBiao Certification& Testing Co., Ltd and the test results show that the equipment under test (EUT) is in compliance with the EMC requirements. And it is applicable only to the tested sample identified in the report.

Date of Test

Date (s) of performance of tests..... :	Mar. 15, 2024~Apr. 15, 2024
Test Result..... :	**Pass**

Testing Engineer : Zoe Su

(Zoe Su)

Technical Manager : Gary Lu

(Gary Lu)

Authorized Signatory : Leo Su

(Leo Su)

Revision History

Revised No.	Date of Issue	Description
01	Apr. 15, 2024	Original

1 General Description

1.1 Description of EUT

Product name:	Wireless Carplay/Android Auto Adapter
Model name:	SYY01
Series Model:	SYY02, SYY03, SYY04, SYY05, SYY06, SYY07, SYY08, SYY09, SYY10
Different of series model:	Except for the model and appearance color, all models have the same circuit and module.
Frequency range:	U-NII-1: 5180 MHz to 5240 MHz, U-NII-2A: 5260 MHz to 5320 MHz, U-NII-2C: 5500 MHz to 5700 MHz, U-NII-3: 5745 MHz to 5825 MHz
Modulation type:	IEEE 802.11a/n: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM(256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax: OFDM(1024QAM, 256QAM, 64QAM, 16QAM QPSK, BPSK)
Channel Spacing:	IEEE 802.11a/n-HT20/ac-VHT20/ax-HE20: 20 MHz IEEE 802.11n-HT40/ac-VHT40/ax-HE40: 40 MHz
Bit Rate of transmitter:	IEEE 802.11a: Up to 54 Mbps IEEE 802.11n-HT20/40: Up to MCS7 IEEE 802.11ac-VHT20/40: Up to MCS9 IEEE 802.11ax-HE20/HE40: Up to MCS11
Channel bandwidth:	IEEE 802.11a/n-HT20/ac-VHT20/ax-HE20: 20 MHz IEEE 802.11n-HT40/ac-VHT40/ax-HE40: 40 MHz
Antenna type:	PCB antenna
Antenna gain:	U-NII-1: -3.98dBi U-NII-2A: -3.13dBi U-NII-2C: -0.25dBi U-NII-3: -1.51dBi
Max. output power:	U-NII-1: 13.48dBm U-NII-2A: 9.14dBm U-NII-2C: 10.71dBm U-NII-3: 12.89dBm
Hardware version:	V0.2
Software version:	update_v851se_jiuyangzhou-AutoLink_202403051141_cp
Battery:	N/A
Power supply:	DC 5V from adapter AC 120V/60Hz

Adapter information:	N/A

1.2 Operation Channel List

For U-NII-1:

20 MHz		40 MHz		80 MHz	
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
36	5180	38	5190	--	--
40	5200	46	5230	--	--
44	5220	--	--	--	--
48	5240	--	--	--	--

For U-NII-2A:

20 MHz		40 MHz		80 MHz	
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
52	5260	54	5270	--	--
56	5280	62	5310	--	--
60	5300	--	--	--	--
64	5320	--	--	--	--
--	--	--	--	--	--

For U-NII-2C:

20 MHz		40 MHz		80 MHz	
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
100	5500	102	5510	--	--
104	5520	110	5550	--	--
108	5540	118	5590	--	--
112	5560	126	5630	--	--
116	5580	134	5670	--	--
120	5600	--	--	--	--
124	5620	--	--	--	--
128	5640	--	--	--	--
132	5660	--	--	--	--
136	5680	--	--	--	--
140	5700	--	--	--	--
--	--	--	--	--	--

For U-NII-3:

20 MHz		40 MHz		80 MHz	
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
149	5745	151	5755	--	--
153	5765	159	5795	--	--
157	5785	--	--	--	--

161	5805	--	--	--	--
165	5825	--	--	--	--

1.3 Test Mode

For 802.11a/n (HT20)/ac (VHT20)/ax (HE20)

U-NII-1 (5150 - 5250 MHz)			U-NII-2A(5250 - 5350 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
36	Low	5180	52	Low	5260
40	Mid	5200	56	Mid	5280
48	High	5240	64	High	5320

For 802.11n (HT40)/ac (VHT40)/ax (HE40)

U-NII-1 (5150 - 5250 MHz)			U-NII-2A(5250 - 5350 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
38	Low	5190	54	Low	5270
46	High	5230	62	High	5310

For 802.11a/n (HT20)/ac (VHT20)/ax (HE20)

U-NII-2C (5470 - 5725 MHz)			U-NII-3(5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
100	Low	5500	149	Low	5745
120	Mid	5600	157	Mid	5785
140	High	5700	165	High	5825

For 802.11n (HT40)/ac (VHT40)/ax (HE40)

U-NII-2C (5470 - 5725 MHz)			U-NII-3(5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
102	Low	5510	151	Low	5755
110	Mid	5550	159	High	5795
134	High	5670	--	--	--

Note: 802. 11ax mode only support full resource unit size.

During testing, Channel and Power Controlling Software provided by the customer was used to control theoperating channel as well as the output power level. The RF output power selection is for the setting of RFoutput power expected by the customer and is going to be fixed on the firmware of the final end product.Transmitting duty cycle is no less 98%.
The software is PUSH and CMD tool Use together.

Test Items	Mode	Data Rate	TX/RX
Radiated Emissions	802.11a (HT20)	6 Mbps	TX
	802.11n/ac(HT20/40)	MCSO	TX
	802.11ax(HE20/40)	MCSO	TX
Duty Cycle	802.11a(HT20)	6 Mbps	TX
	802.11n/ac(HT20/40)	MCSO	TX
	802.11ax(HE20/40)	MCSO	TX
Band Edge	802.11a (HT20)	6 Mbps	TX
	802.11n/ac(HT20/40)	MCSO	TX
	802.11ax(HE20/40)	MCSO	TX
6dB Bandwidth	802.11a (HT20)	6 Mbps	TX
	802.11n/ac(HT20/40)	MCSO	TX
	802.11ax(HE20/40)	MCSO	TX
26dB Bandwidth and 99% Occupied Bandwidth	802.11a (HT20)	6 Mbps	TX
	802.11n/ac(HT20/40)	MCSO	TX
	802.11ax(HE20/40)	MCSO	TX
Conducted Output Power	802.11a(HT20)	6 Mbps	TX
	802.11n/ac(HT20/40)	MCSO	TX
	802.11ax(HE20/40)	MCSO	TX
Power Spectral Density	802.11a(HT20)	6 Mbps	TX
	802.11n/ac(HT20/40)	MCSO	TX
	802.11ax(HE20/40)	MCSO	TX
Frequency Stability	Un-modulation	/	TX

1.4 Test Setup

See photographs of the test setup in the report for the actual setup and connections between EUT and support equipment.

1.5 Ancillary Equipment

Equipment	Model	S/N	Manufacturer
Notebook	NbDE-WFH9	XYKPM22A13001799	Huawei Terminal Co., Ltd
Adapter	GST40A12	EN94C51258	SuZhou MEAN WELL Technology Co., Ltd.

2 Summary of Test Result

No.	Standard Section	Test Item	Result	Remark
1	15.203/15.407	Antenna Requirement	Pass	
2	15.207	Power Line Conducted Emission	Pass	
3	15.407(b) 15.209	Radiation Spurious Emission	Pass	
4	15.407(a)	RF Output Power	Pass	
5	15.407(a)	Power Spectral Density	Pass	
6	15.407(a)	26dB Emission Bandwidth and Occupied bandwidth	Pass	
7	15.407(e)	6 dB bandwidth	Pass	
8	15.407(b)	Out Of Band Emission	Pass	
9	15.407(b)	Spurious RF Conducted Emissions	Pass	

3 Test Facilities and Accreditations

3.1 Test Laboratory

Test Site	Shenzhen HongBiao Certification& Testing Co., Ltd
Test Site Location	Room 102, 201, Building 2, Yuanwanggu RFID Industrial Park, Tongguan Road, Tianliao Community, Yutang Street, Guangming District, Shenzhen, China
Telephone:	(86-755) 2998 9321
Fax:	(86-755) 2998 5110
FCC Registration No.:	CN1341
A2LA Certificate No.:	6765.01

3.2 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15ºC~35ºC
Relative Humidity:	20%~75%
Air Pressure:	98kPa~101kPa

3.3 Measurement Uncertainty

The reported uncertainty of measurement y ± U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

Measurement Frequency Range	U，(dB)	Note
RF frequency	$2x\ 10^{-5}$	
RF power, conducted	± 0.57 dB	
Conducted emission(150kHz~30MHz)	± 2.5 dB	
Radiated emission(9kHz-30MHz)	± 2.5 dB	
Radiated emission(30MHz~1GHz)	± 4.2 dB	
Radiated emission (above 1GHz)	± 4.7 dB	
Occupied Bandwidth	±3%	
Temperature	±1 degree	
Humidity	± 5 %	

3.4 Test Software

Software name	Manufacturer	Model	Version
EMI Measurement	Farad	EZ-EMC	V1.1.4.2
Conducted test system	MWRF-test	MTS 8310	V2.0.0

4 List of Test Equipment

Radiation Emission							
Item	Equipment No.	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	HB-E001	Horn Antenna	Schwarzbeck	BBHA 9120D	02592	2024-04-02	2026-04-01
2	HB-E002	Biconical log-periodic composite antenna	Schwarzbeck	VULB 9168	01340	2024-04-06	2026-04-05
3	HB-E003	SHF-EHF Horn	Schwarzbeck	BBHA 91270	01193	2024-04-02	2026-04-01
4	HB-E004	Preamplifier	Noyetec	LAN-0910	NYCM1420101	2023-05-11	2024-05-10
5	HB-E005	Preamplifier	Noyetec	LAN-0118	NYCM1420102	2023-05-12	2024-05-11
6	HB-E006	Preamplifier	Noyetec	LAN-1840	NYCM1420103	2023-06-11	2024-06-10
7	HB-E007	EMI TEST RECEIVER	R&S	ESR7	102520	2023-05-12	2024-05-11
8	HB-E044	Signal& spectrum Analyzer	R&S	FSV3044	101264	2023-05-11	2024-05-10
9	HB-E009	POSITINAL COTROLLER	Noyetec	N/A	N/A	/	/
10	HB-E013	RF switch	Noyetec	NY-RF4	NY0CM1420204	/	/
11	HB-E066	Illuminance Tester	TASI	TA8121	N/A	2023-05-11	2024-05-10
12	HB-E075	Active loop antenna	Schwarzbeck	FMZB 1519B	1519B-245	2022-07-24	2024-07-23
Conduction Emission							
Item	Equipment No.	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	HB-E014	4 Path V-LISN	Schwarzbeck	NNLK 8121	00770	2023-05-12	2024-05-11
2	HB-E015	Pulse Limiter	Schwarzbeck	VTSD 9561-F	00949	2023-05-12	2024-05-11
3	HB-E016	ZN23201	Noyetec	ZN23201	N/A	2023-05-11	2024-05-10
4	HB-E059	Attenuator	Xianghua	TS2-6-1	220215166	2023-05-12	2024-05-11
5	HB-E069	EMI TEST RECEIVER	R&S	ESCI	N/A	2023-05-12	2024-05-11

RF							
Item	Equipmen	Equipment	Manufact	Model	Serial No.	Calibration	Due date

	t No.	name	urer			date	
1	HB-E041	MXG Anaiog Signal Generator	Agilent	N5181A	MY47070421	2023-05-11	2024-05-10
2	HB-E042	WIDEBAND RADIO COMMUNICATION TESTER	R&S	CMW500	132108	2023-05-11	2024-05-10
3	HB-E043	MXG Anaiog Signal Generator	Agilent	N5182A	US46240335	2023-05-11	2024-05-10
4	HB-E044	Signal& spectrum Analyzer	R&S	FSV3044	101264	2023-05-11	2024-05-10
5	HB-E045	RF Control Box	Noyetec	NY100-RFCB	N/A	/	/
6	HB-E058	Thermometer Clock Humidity Monitor	N/A	HTC-1	N/A	/	/

Note: the calibration interval of the above test instruments is 12&24 months and the calibrations are traceable to international system unit (SI).

5 Test Item And Results

5.1 Antenna Requirement

5.1.1 Standard Requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device

5.1.2 Test Result

The EUT antenna is PCB antenna. It comply with the standard requirement. In case of replacement of broken antenna the same antenna type must be used.

5.2 Power Line Conducted Emission

5.2.1 Limits

Limits – Class B		
Frequency (MHz)	Limit (dBμV)	
	Quasi-Peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.5 to 5	56	46
5 to 30	60	50
Note: 1. the tighter limit applies at the band edges. 2. the limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.		

5.2.2 Test Procedures

a) EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

b) The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

c) The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

d) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

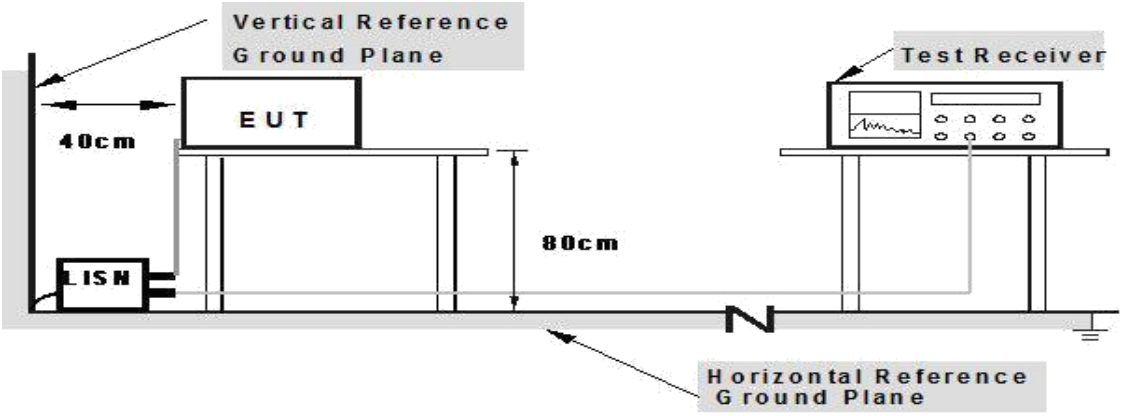
e) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

f) LISN is at least 80 cm from nearest part of EUT chassis.

g) For the actual test configuration, please refer to the related Item – photographs of the test

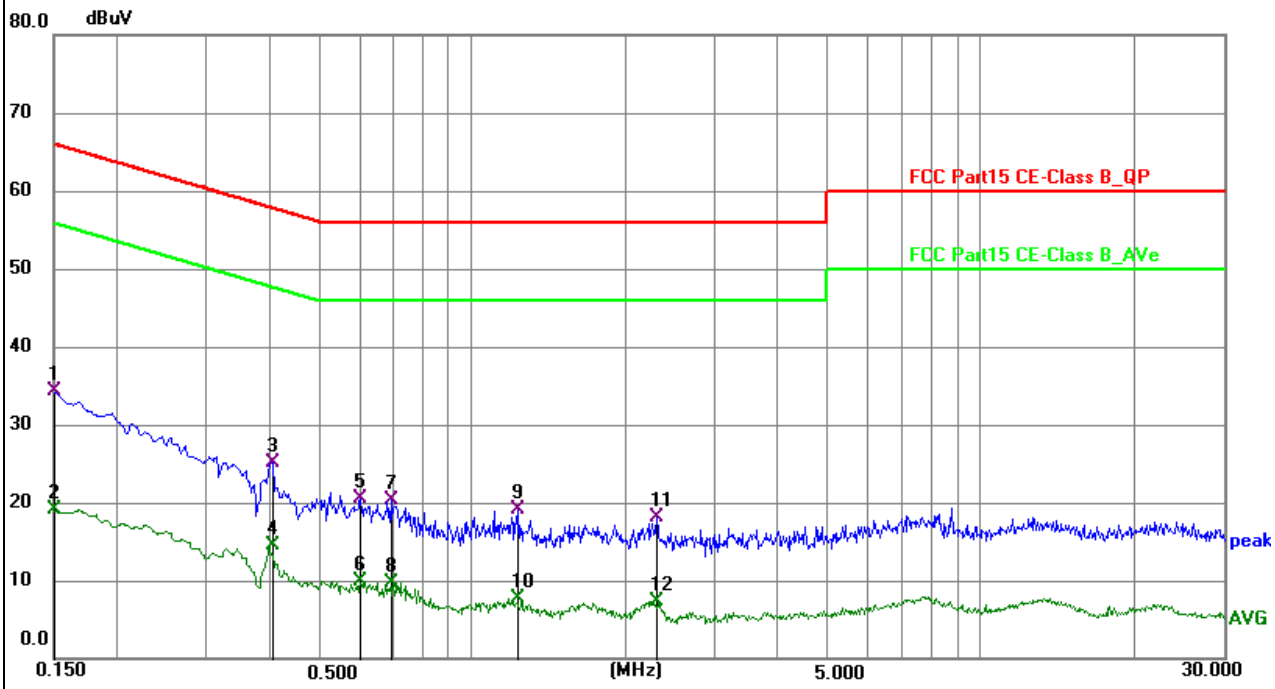
setup.

5.2.3 Test Setup



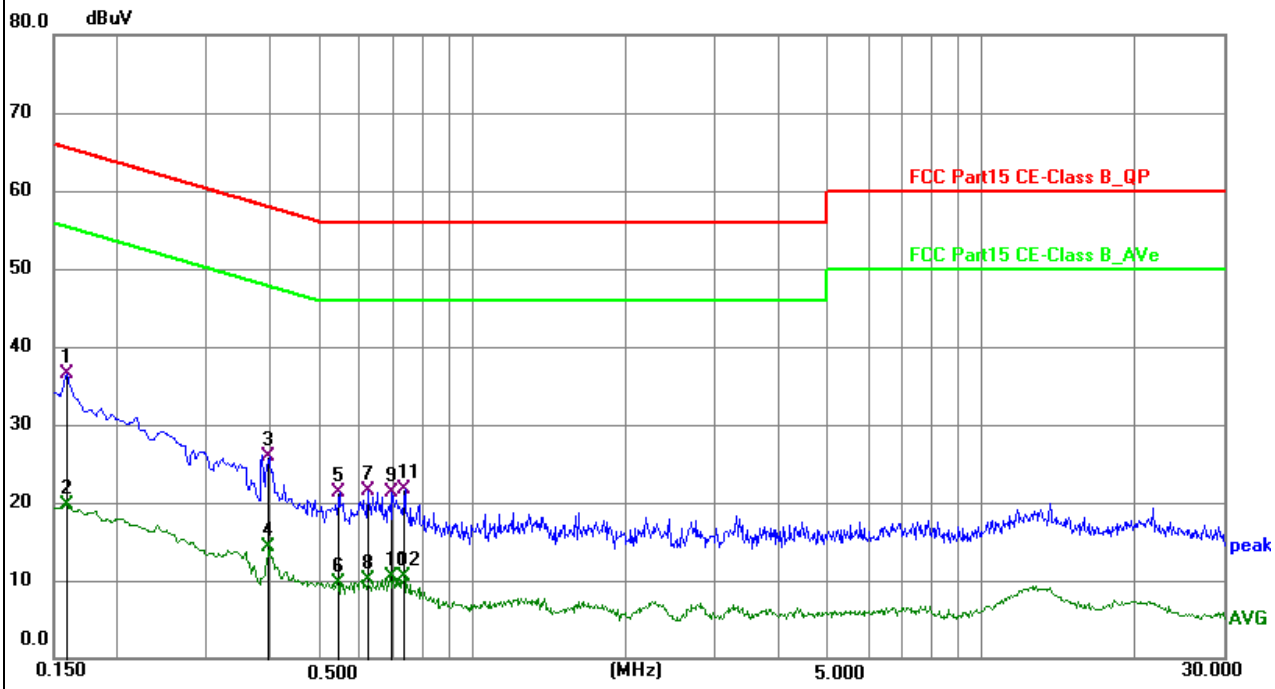
5.2.4 Test Result

EUT:	Wireless Carplay/Android Auto Adapter	Model Name:	SYY01
Test Mode:	TX	Phase:	L
Test Voltage:	DC 5V from adapter AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1 *	0.150000	24.10	10.15	34.25	66.00	-31.75	QP
2	0.150000	8.91	10.15	19.06	56.00	-36.94	AVG
3	0.402000	14.98	10.10	25.08	57.81	-32.73	QP
4	0.402000	4.36	10.10	14.46	47.81	-33.35	AVG
5	0.600000	10.45	10.07	20.52	56.00	-35.48	QP
6	0.600000	-0.23	10.07	9.84	46.00	-36.16	AVG
7	0.690000	10.24	10.06	20.30	56.00	-35.70	QP
8	0.690000	-0.37	10.06	9.69	46.00	-36.31	AVG
9	1.234500	8.96	10.05	19.01	56.00	-36.99	QP
10	1.234500	-2.28	10.05	7.77	46.00	-38.23	AVG
11	2.305500	8.18	9.98	18.16	56.00	-37.84	QP
12	2.305500	-2.66	9.98	7.32	46.00	-38.68	AVG

EUT:	Wireless Carplay/Android Auto Adapter	Model Name:	SYY01
Test Mode:	TX	Phase:	N
Test Voltage:	DC 5V from adapter AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1 *	0.159000	26.39	10.13	36.52	65.52	-29.00	QP
2	0.159000	9.60	10.13	19.73	55.52	-35.79	AVG
3	0.397500	15.80	10.10	25.90	57.91	-32.01	QP
4	0.397500	4.27	10.10	14.37	47.91	-33.54	AVG
5	0.546000	11.22	10.08	21.30	56.00	-34.70	QP
6	0.546000	-0.33	10.08	9.75	46.00	-36.25	AVG
7	0.622500	11.47	10.07	21.54	56.00	-34.46	QP
8	0.622500	0.12	10.07	10.19	46.00	-35.81	AVG
9	0.694500	11.26	10.06	21.32	56.00	-34.68	QP
10	0.694500	0.46	10.06	10.52	46.00	-35.48	AVG
11	0.735000	11.60	10.07	21.67	56.00	-34.33	QP
12	0.735000	0.42	10.07	10.49	46.00	-35.51	AVG

5.3 Radiated Emission

5.3.1 Limits

1. For transmitters operating in the 5.15-5.25 GHz band:

All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

2. For transmitters operating in the 5.25-5.35 GHz band:

All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

3. For transmitters operating in the 5.47-5.725 GHz band:

All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

4. For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

(ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Frequency Range	RBW	VBW	Measurement
30MHz-1GHz	1MHz	3MHz	Peak
Above 1GHz	1MHz	10Hz Note1	Average
	1MHz	>1/T Note2	Average
Note1	When duty cycle is no less than 98%		

Note2	When duty cycle is less than 98%

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

5.3.2 Test Procedures

The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.

The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.

The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

For emission measurements above 1 GHz, the EUT shall be placed at a height of 1.5 m above the floor on a support that is RF transparent for the frequencies of interest. Final measurements for the EUT require a measurement antenna height scan of 1 m to 4 m.

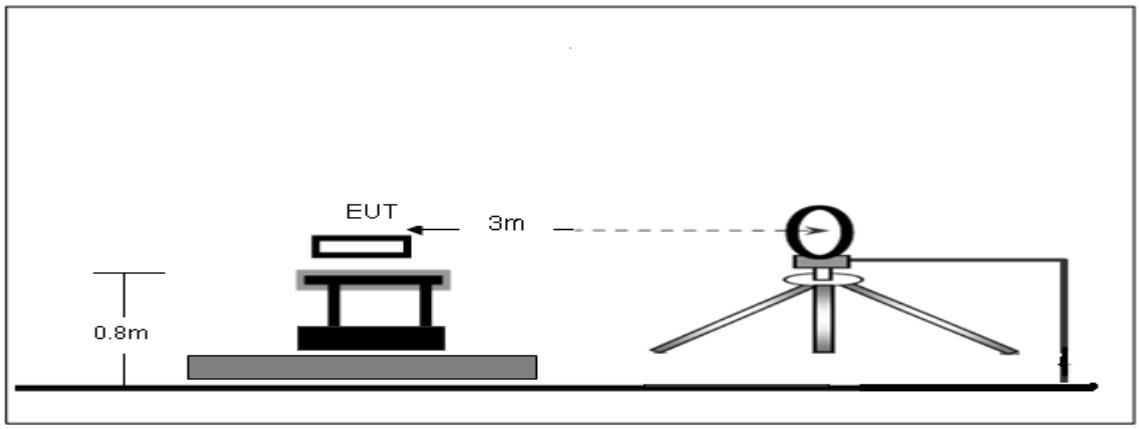
The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
For the actual test configuration, please refer to the related Item –EUT Test Photos.

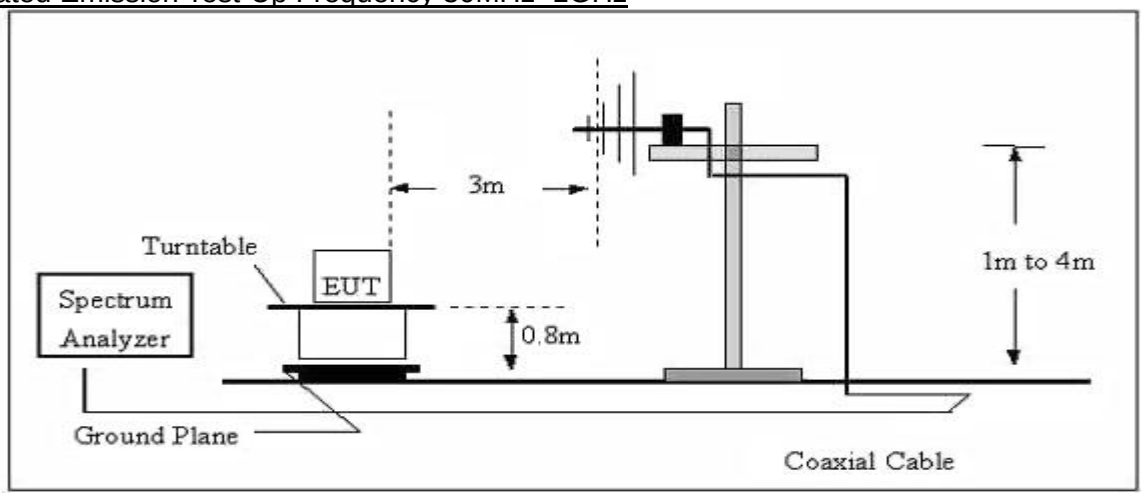
Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

5.3.3 Test Setup

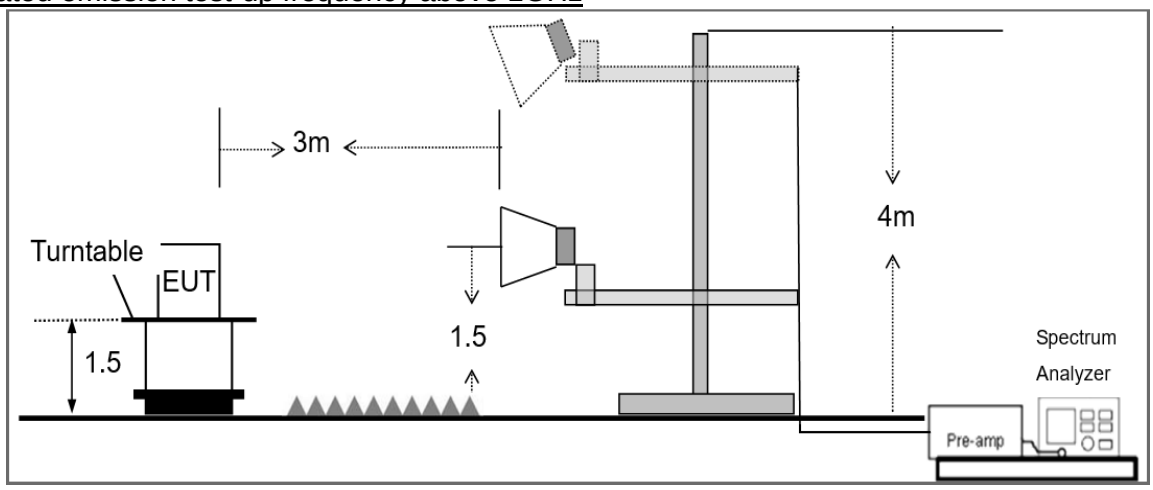
Radiated Emission Test-Up Frequency Below 30MHz



Radiated Emission Test-Up Frequency 30MHz~1GHz



Radiated emission test-up frequency above 1GHz



5.3.4 Test Result

Below 30MHz

EUT:	Wireless Carplay/Android Auto Adapter	Model Name:	SYY01
Pressure:	1010 hPa	Test Voltage:	DC 5V from adapter AC 120V/60Hz
Test Mode:	TX	Polarization:	--

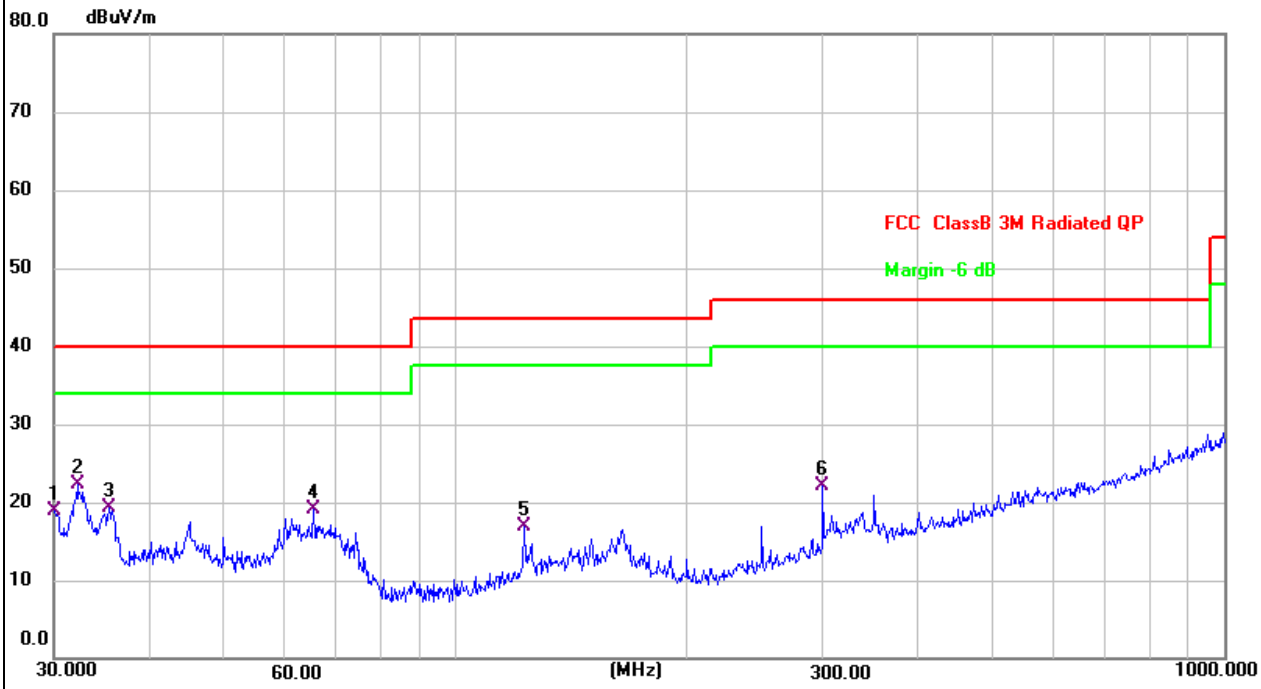
Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	Pass
--	--	--	--	Pass

Note:

1. For 9kHz-30MHz, the amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Distance extrapolation factor =40 log (specific distance/test distance)(dB);
3. Limit line = specific limits (dBuV) + distance extrapolation factor.

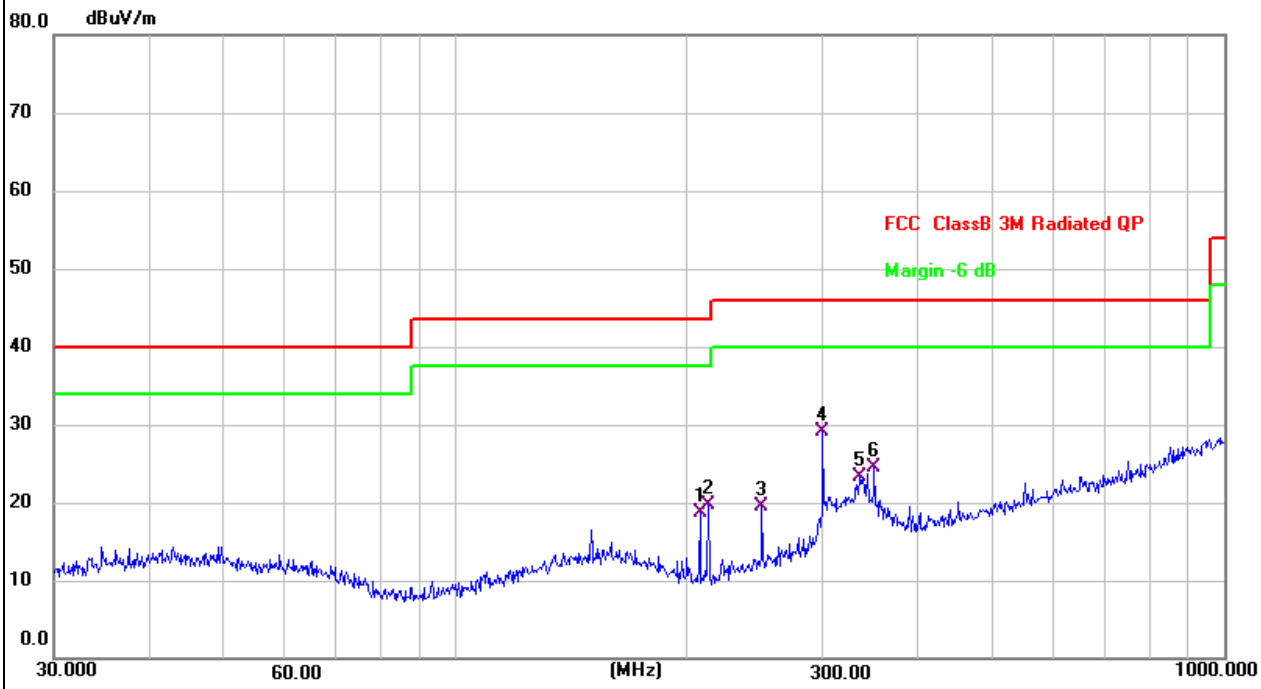
Frequency range (30MHz – 1GHz)

EUT:	Wireless Carplay/Android Auto Adapter	Model Name:	SYY01
Test Mode:	U-NII-1 802.11n20 CH36	Phase:	Vertical
Test Voltage:	DC 5V from adapter AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.1054	34.66	-15.74	18.92	40.00	-21.08	QP
2 *	32.1795	37.66	-15.41	22.25	40.00	-17.75	QP
3	35.3750	34.24	-14.91	19.33	40.00	-20.67	QP
4	65.3432	34.97	-15.77	19.20	40.00	-20.80	QP
5	122.8340	32.99	-16.03	16.96	43.50	-26.54	QP
6	300.3672	35.11	-13.07	22.04	46.00	-23.96	QP

EUT:	Wireless Carplay/Android Auto Adapter	Model Name:	SYY01
Test Mode:	U-NII-1 802.11n20 CH36	Phase:	Horizontal
Test Voltage:	DC 5V from adapter AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	207.8501	35.23	-16.61	18.62	43.50	-24.88	QP
2	213.0151	36.40	-16.66	19.74	43.50	-23.76	QP
3	250.3012	34.15	-14.71	19.44	46.00	-26.56	QP
4 *	300.3672	42.27	-13.07	29.20	46.00	-16.80	QP
5	334.8589	35.28	-12.04	23.24	46.00	-22.76	QP
6	350.4768	36.10	-11.64	24.46	46.00	-21.54	QP

Frequency range (1GHz-40GHz)
For U-NII-1

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G									
Vertical	4435.229	55.25	5.94	35.40	44.00	52.59	74.00	-21.41	Pk
Vertical	4434.885	44.82	5.94	35.40	44.00	42.16	54.00	-11.84	AV
Vertical	10370.416	61.79	8.46	39.75	44.50	65.50	68.20	-2.70	Pk
Vertical	15541.049	55.85	10.12	38.80	44.10	60.67	68.20	-7.53	Pk
Vertical	15540.710	42.82	10.12	38.80	42.70	49.04	54.00	-4.96	AV
Horizontal	4434.874	59.07	5.94	35.18	44.00	56.19	74.00	-17.81	Pk
Horizontal	4435.116	42.96	5.94	35.18	44.00	40.08	54.00	-13.92	AV
Horizontal	10371.324	61.64	8.46	38.71	44.50	64.31	68.20	-3.89	Pk
Horizontal	15540.536	57.23	10.12	38.38	44.10	61.63	68.20	-6.57	Pk
Horizontal	15541.428	43.99	10.12	38.38	44.10	48.39	54.00	-5.61	AV
middle Channel (5200 MHz)-Above 1G									
Vertical	4593.723	58.42	6.48	36.35	44.05	57.20	74.00	-16.80	Pk
Vertical	4593.805	42.42	6.48	36.35	44.05	41.20	54.00	-12.80	AV
Vertical	10401.883	45.63	8.47	37.88	44.51	47.47	68.20	-20.73	AV
Vertical	15601.511	56.31	10.12	38.8	44.10	61.13	68.20	-7.07	Pk
Vertical	15601.309	42.93	10.12	38.8	42.70	49.15	54.00	-4.85	AV
Horizontal	4592.764	59.08	6.48	36.37	44.05	57.88	74.00	-16.12	Pk
Horizontal	4593.207	43.22	6.48	36.37	44.05	42.02	54.00	-11.98	AV
Horizontal	10402.231	46.98	8.47	38.64	44.50	49.59	68.20	-18.61	AV
Horizontal	15602.238	57.94	10.12	38.38	44.10	62.34	68.20	-5.86	Pk
Horizontal	15601.493	42.75	10.12	38.38	44.10	47.15	54.00	-6.85	AV
High Channel (5240 MHz)-Above 1G									
Vertical	4739.989	58.48	7.10	37.24	43.50	59.32	74.00	-14.68	Pk
Vertical	4740.002	45.82	7.10	37.24	43.50	46.66	54.00	-7.34	AV
Vertical	10480.993	62.29	8.46	37.68	44.50	63.93	68.20	-4.27	Pk
Vertical	15721.802	57.45	10.12	38.8	44.10	62.27	68.20	-5.93	Pk
Vertical	15721.768	43.72	10.12	38.8	42.70	49.94	54.00	-4.06	AV
Horizontal	4741.203	59.97	7.10	37.24	43.50	60.81	74.00	-13.19	Pk
Horizontal	4740.309	43.59	7.10	37.24	43.50	44.43	54.00	-9.57	AV
Horizontal	10481.523	42.97	8.46	38.57	44.50	45.50	68.20	-22.70	AV
Horizontal	15720.614	57.08	10.12	38.38	44.10	61.48	68.20	-6.72	Pk
Horizontal	15721.261	42.68	10.12	38.38	44.10	47.08	54.00	-6.92	AV

Frequency range (1GHz-40GHz)
U-NII-2A

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5260 MHz)-Above 1G									
Vertical	4435.266	54.84	5.94	35.40	44.00	52.18	74.00	-21.82	Pk
Vertical	4435.966	44.33	5.94	35.40	44.00	41.67	54.00	-12.33	AV
Vertical	10372.266	61.57	8.46	39.75	44.50	65.28	74.00	-8.72	Pk
Vertical	10371.561	43.19	8.46	39.75	44.50	46.90	54.00	-7.10	AV
Vertical	15540.949	56.09	10.12	38.80	44.10	60.91	74.00	-13.09	Pk
Horizontal	15540.597	43.23	10.12	38.80	42.70	49.45	54.00	-4.55	AV
Horizontal	4436.127	59.19	5.94	35.18	44.00	56.31	74.00	-17.69	Pk
Horizontal	4434.722	43.94	5.94	35.18	44.00	41.06	54.00	-12.94	AV
Horizontal	10371.263	62.07	8.46	38.71	44.50	64.74	74.00	-9.26	Pk
Horizontal	10731.545	46.30	8.46	38.71	44.50	48.97	54.00	-5.03	AV
middle Channel (5280 MHz)-Above 1G									
Vertical	4592.643	58.18	6.48	36.35	44.05	56.96	74.00	-17.04	Pk
Vertical	4593.744	43.20	6.48	36.35	44.05	41.98	54.00	-12.02	AV
Vertical	10402.820	60.75	8.47	37.88	44.51	62.59	74.00	-11.41	Pk
Vertical	10401.318	46.17	8.47	37.88	44.51	48.01	54.00	-5.99	AV
Vertical	15601.437	57.23	10.12	38.8	44.10	62.05	74.00	-11.95	Pk
Horizontal	15601.247	42.27	10.12	38.8	42.70	48.49	54.00	-5.51	AV
Horizontal	4593.558	59.54	6.48	36.37	44.05	58.34	74.00	-15.66	Pk
Horizontal	4594.028	42.69	6.48	36.37	44.05	41.49	54.00	-12.51	AV
Horizontal	10401.261	61.15	8.47	38.64	44.50	63.76	74.00	-10.24	Pk
Horizontal	10401.202	47.99	8.47	38.64	44.50	50.60	54.00	-3.40	AV
High Channel (5240 MHz)-Above 1G									
Vertical	4741.224	59.31	7.10	37.24	43.50	60.15	74.00	-13.85	Pk
Vertical	4739.390	46.30	7.10	37.24	43.50	47.14	54.00	-6.86	AV
Vertical	10481.320	61.20	8.46	37.68	44.50	62.84	74.00	-11.16	Pk
Vertical	10480.780	45.50	8.46	37.68	44.50	47.14	54.00	-6.86	AV
Vertical	15720.388	58.03	10.12	38.8	44.10	62.85	74.00	-11.15	Pk
Horizontal	15721.280	42.28	10.12	38.8	42.70	48.50	54.00	-5.50	AV
Horizontal	4739.972	59.72	7.10	37.24	43.50	60.56	74.00	-13.44	Pk
Horizontal	4739.582	44.64	7.10	37.24	43.50	45.48	54.00	-8.52	AV
Horizontal	10481.994	58.00	8.46	38.57	44.50	60.53	74.00	-13.47	Pk
Horizontal	10483.243	42.39	8.46	38.57	44.50	44.92	54.00	-9.08	AV

Note:
All modes have been tested, and only the worst mode 802.11a mode is mentioned in the report.

Frequency range (1GHz-40GHz)
U-NII-2C

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5500 MHz)-Above 1G									
Vertical	4435.347	55.49	5.94	35.40	44.00	52.83	74.00	-21.17	Pk
Vertical	4434.584	44.56	5.94	35.40	44.00	41.90	54.00	-12.10	AV
Vertical	10372.178	62.25	8.46	39.75	44.50	65.96	74.00	-8.04	Pk
Vertical	10370.966	44.24	8.46	39.75	44.50	47.95	54.00	-6.05	AV
Vertical	15540.534	56.61	10.12	38.80	44.10	61.43	74.00	-12.57	Pk
Horizontal	15540.633	42.99	10.12	38.80	42.70	49.21	54.00	-4.79	AV
Horizontal	4434.657	58.31	5.94	35.18	44.00	55.43	74.00	-18.57	Pk
Horizontal	4434.636	43.38	5.94	35.18	44.00	40.50	54.00	-13.50	AV
Horizontal	10371.642	62.05	8.46	38.71	44.50	64.72	74.00	-9.28	Pk
Horizontal	10730.322	46.29	8.46	38.71	44.50	48.96	54.00	-5.04	AV
middle Channel (5600 MHz)-Above 1G									
Vertical	4592.388	57.31	6.48	36.35	44.05	56.09	74.00	-17.91	Pk
Vertical	4592.182	43.31	6.48	36.35	44.05	42.09	54.00	-11.91	AV
Vertical	10401.779	60.49	8.47	37.88	44.51	62.33	74.00	-11.67	Pk
Vertical	10402.246	45.95	8.47	37.88	44.51	47.79	54.00	-6.21	AV
Vertical	15601.397	58.32	10.12	38.8	44.10	63.14	74.00	-10.86	Pk
Horizontal	15601.366	41.67	10.12	38.8	42.70	47.89	54.00	-6.11	AV
Horizontal	4593.122	59.78	6.48	36.37	44.05	58.58	74.00	-15.42	Pk
Horizontal	4593.043	42.02	6.48	36.37	44.05	40.82	54.00	-13.18	AV
Horizontal	10400.756	62.49	8.47	38.64	44.50	65.10	74.00	-8.90	Pk
Horizontal	10401.355	47.76	8.47	38.64	44.50	50.37	54.00	-3.63	AV
High Channel (5700 MHz)-Above 1G									
Vertical	4740.306	60.24	7.10	37.24	43.50	61.08	74.00	-12.92	Pk
Vertical	4741.083	45.80	7.10	37.24	43.50	46.64	54.00	-7.36	AV
Vertical	10481.591	61.05	8.46	37.68	44.50	62.69	74.00	-11.31	Pk
Vertical	10482.073	47.06	8.46	37.68	44.50	48.70	54.00	-5.30	AV
Vertical	15720.303	58.31	10.12	38.8	44.10	63.13	74.00	-10.87	Pk
Horizontal	15721.868	42.40	10.12	38.8	42.70	48.62	54.00	-5.38	AV
Horizontal	4741.257	59.28	7.10	37.24	43.50	60.12	74.00	-13.88	Pk
Horizontal	4741.156	43.31	7.10	37.24	43.50	44.15	54.00	-9.85	AV
Horizontal	10482.994	58.49	8.46	38.57	44.50	61.02	74.00	-12.98	Pk
Horizontal	10482.539	42.71	8.46	38.57	44.50	45.24	54.00	-8.76	AV

Note:
All modes have been tested, and only the worst mode 802.11a mode is mentioned in the report.

Frequency range (1GHz-40GHz)
U-NII-3

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G									
Vertical	4680.976	58.02	5.94	35.40	44.00	55.36	74.00	-18.64	Pk
Vertical	4680.960	46.94	5.94	35.40	44.00	44.28	54.00	-9.72	AV
Vertical	11491.863	59.99	8.46	39.75	44.50	63.70	74.00	-10.30	Pk
Vertical	17236.227	58.33	10.12	38.80	44.10	63.15	54.00	9.15	Pk
Vertical	17237.089	41.43	10.12	38.80	42.70	47.65	68.20	-20.55	AV
Horizontal	4681.083	59.00	5.94	35.18	44.00	56.12	74.00	-17.88	Pk
Horizontal	4681.267	44.43	5.94	35.18	44.00	41.55	54.00	-12.45	AV
Horizontal	11492.267	60.71	8.46	38.71	44.50	63.38	74.00	-10.62	Pk
Horizontal	17235.959	58.91	10.12	38.38	44.10	63.31	54.00	9.31	Pk
Horizontal	17237.343	44.35	10.12	38.38	44.10	48.75	68.20	-19.45	AV
middle Channel (5785 MHz)-Above 1G									
Vertical	4594.153	58.48	6.48	36.35	44.05	57.26	74.00	-16.74	Pk
Vertical	4593.884	44.73	6.48	36.35	44.05	43.51	54.00	-10.49	AV
Vertical	11571.731	60.22	8.47	37.88	44.51	62.06	74.00	-11.94	Pk
Vertical	17356.497	58.53	10.12	38.8	44.10	63.35	54.00	9.35	Pk
Vertical	17356.053	42.67	10.12	38.8	42.70	48.89	68.20	-19.31	AV
Horizontal	4592.873	60.70	6.48	36.37	44.05	59.50	74.00	-14.50	Pk
Horizontal	4593.281	44.44	6.48	36.37	44.05	43.24	54.00	-10.76	AV
Horizontal	11571.817	48.28	8.47	38.64	44.50	50.89	74.00	-23.11	AV
Horizontal	17356.973	61.46	10.12	38.38	44.10	65.86	54.00	11.86	Pk
Horizontal	17356.423	44.57	10.12	38.38	44.10	48.97	68.20	-19.23	AV
High Channel (5825 MHz)-Above 1G									
Vertical	5040.737	59.74	7.10	37.24	43.50	60.58	74.00	-13.42	Pk
Vertical	5039.857	46.56	7.10	37.24	43.50	47.40	54.00	-6.60	AV
Vertical	11650.834	56.33	8.46	37.68	44.50	57.97	74.00	-16.03	Pk
Vertical	17476.348	61.25	10.12	38.8	44.10	66.07	54.00	12.07	Pk
Vertical	17477.018	39.82	10.12	38.8	42.70	46.04	68.20	-22.16	AV
Horizontal	5041.062	68.33	7.10	37.24	43.50	69.17	74.00	-4.83	Pk
Horizontal	5039.684	44.10	7.10	37.24	43.50	44.94	54.00	-9.06	AV
Horizontal	11650.338	45.31	8.46	38.57	44.50	47.84	74.00	-26.16	AV
Horizontal	17476.158	59.79	10.12	38.38	44.10	64.19	54.00	10.19	Pk
Horizontal	17476.061	45.47	10.12	38.38	44.10	49.87	68.20	-18.33	AV

Note:
All modes have been tested, and only the worst mode 802.11a mode is mentioned in the report.

5.3.5 Radiated Band Edge

For U-NII-1&U-NII-2A
For 802.11a mode: (CH36 5180MHz&CH64 5320MHz)

Polarization	Frequency	Read Lavel	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Over Limit	Detector Type
/	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal	5150	66.13	8.69	29.4	42.59	61.63	74	-12.37	Pk
Horizontal	5350	64.00	9.37	30.41	43.25	60.53	74	-13.47	Pk
Horizontal	5460	46.91	8.69	29.4	42.59	42.41	74	-31.59	Pk
Vertical	5150	67.97	9.21	29.4	42.59	63.99	74	-10.01	Pk
Vertical	5350	60.49	9.12	30.41	43.25	56.77	74	-17.23	Pk
Vertical	5460	50.90	9.12	30.41	43.25	47.18	74	-26.82	Pk

Polarization	Frequency	Read Lavel	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Over Limit	Detector Type
/	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal	5150	46.90	8.69	29.4	42.59	42.40	54	-11.60	AV
Horizontal	5350	41.96	9.37	30.41	43.25	38.49	54	-15.51	AV
Horizontal	5460	46.86	8.69	29.4	42.59	42.36	54	-11.64	AV
Vertical	5150	49.71	9.21	29.4	42.59	45.73	54	-8.27	AV
Vertical	5350	46.58	9.12	30.41	43.25	42.86	54	-11.14	AV
Vertical	5460	51.10	9.12	30.41	43.25	47.38	54	-6.62	AV

Note:
All modes have been tested, and only the worst mode 802.11a mode is mentioned in the report.

For U-NII-2C
For 802.11a mode: (CH100 5500MHz&CH140 5700MHz)

Polarization	Frequency	Read Lavel	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Over Limit	Detector Type
/	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal	5470	69.05	8.69	29.4	42.59	64.55	74	-9.45	Pk
Horizontal	5725	66.78	9.37	30.41	43.25	63.31	74	-10.69	Pk
Vertical	5470	61.56	9.21	29.4	42.59	57.58	74	-16.42	Pk
Vertical	5725	59.99	9.12	30.41	43.25	56.27	74	-17.73	Pk
Horizontal	5470	46.67	8.69	29.4	42.59	42.17	54	-11.83	AV
Horizontal	5725	48.09	8.46	30.41	43.25	43.71	54	-10.29	AV
Vertical	5470	45.27	9.21	29.4	42.59	41.29	54	-12.71	AV
Vertical	5725	48.33	9.12	30.41	43.25	44.61	54	-9.39	AV

Note:
All modes have been tested, and only the worst mode 802.11a mode is mentioned in the report.

For U-NII-3
For 802.11a mode: (CH149 5745MHz&CH165 5825MHz)

Polarization	Frequency	Read Lavel	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Over Limit	Detector Type
/	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal	5650	68.43	8.69	29.4	42.59	63.93	68.2	-4.27	Pk
Horizontal	5700	65.21	9.37	30.41	43.25	61.74	85.2	-23.46	Pk
Horizontal	5720	45.78	8.69	29.4	42.59	41.28	110.8	-69.52	Pk
Horizontal	5725	50.16	8.46	30.41	43.25	45.78	122.2	-76.42	Pk
Vertical	5650	50.70	9.21	29.4	42.59	46.72	68.2	-21.48	Pk
Vertical	5700	50.19	9.12	30.41	43.25	46.47	85.2	-38.73	Pk
Vertical	5720	68.55	9.21	29.4	42.59	64.57	110.8	-46.23	Pk
Vertical	5725	61.49	9.12	30.41	43.25	57.77	122.2	-64.43	Pk

Note:
All modes have been tested, and only the worst mode 802.11a mode is mentioned in the report.

5.4 Peak Output Power

5.4.1 Limit

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz band

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

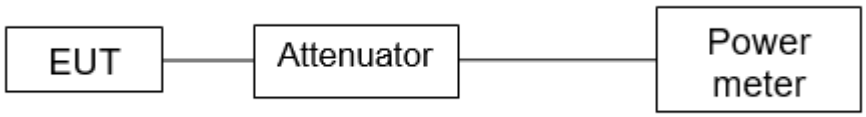
For the band 5.725-5.85 GHz

The maximum conducted output power over the frequency band of operation shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

5.4.2 Test Procedure

The maximum peak conducted output power may be measured using a broadband Average RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the emission bandwidth and utilize a fast-responding diode detector.

5.4.3 Test Setup



5.4.4 Test Results

EUT:	Wireless Carplay/Android Auto Adapter	Model Name:	SYY01
Test Mode:	TX	Test Voltage:	DC 5V from adapter AC 120V/60Hz

For U-NII-1

Modulation mode	Test Channel	Frequency(MHz)	Average Conducted Power		Limit(mW)
			(dBm)	(mW)	
11a	CH36	5180	13.34	21.58	250
11a	CH40	5200	12.93	19.63	250
11a	CH48	5240	11.97	15.74	250
11n (HT20)	CH36	5180	12.86	19.32	250
11n (HT20)	CH40	5200	12.94	19.68	250
11n (HT20)	CH48	5240	11.87	15.38	250
11n (HT40)	CH38	5190	12.68	18.54	250
11n (HT40)	CH46	5230	12.01	15.89	250
11ac (HT20)	CH36	5180	12.86	19.32	250
11ac (HT20)	CH40	5200	12.95	19.72	250
11ac (HT20)	CH48	5240	11.97	15.74	250
11ac (HT40)	CH38	5190	12.71	18.66	250
11ac (HT40)	CH46	5230	11.92	15.56	250
11ax (HE20)	CH36	5180	13.07	20.28	250
11ax (HE20)	CH40	5200	13.48	22.28	250
11ax (HE20)	CH48	5240	12.79	19.01	250
11ax (HE40)	CH38	5190	13.24	21.09	250
11ax (HE40)	CH46	5230	12.84	19.23	250

U-NII-2A

Modulation mode	Test Channel	Frequency(MHz)	Average Conducted Power		Limit(mW)
			(dBm)	(mW)	
11a	CH52	5260	9.09	8.11	250
11a	CH56	5280	8.4	6.92	250
11a	CH64	5320	7.87	6.12	250
11n (HT20)	CH52	5260	9.14	8.20	250
11n (HT20)	CH56	5280	8.36	6.85	250
11n (HT20)	CH64	5320	7.92	6.19	250
11n (HT40)	CH54	5270	8.42	6.95	250
11n (HT40)	CH62	5310	7.57	5.71	250
11ac (HT20)	CH52	5260	8.95	7.85	250
11ac (HT20)	CH56	5280	8.31	6.78	250
11ac (HT20)	CH64	5320	7.82	6.05	250
11ac (HT40)	CH54	5270	8.17	6.56	250
11ac (HT40)	CH62	5310	7.55	5.69	250
11ax (HE20)	CH52	5260	8.76	7.52	250

11ax (HE20)	CH56	5280	8.15	6.53	250
11ax (HE20)	CH64	5320	7.59	5.74	250
11ax (HE40)	CH54	5270	8.04	6.37	250
11ax (HE40)	CH62	5310	7.22	5.27	250

U-NII-2C

Modulation mode	Test Channel	Frequency(MHz)	Average Conducted Power		Limit(mW)
			(dBm)	(mW)	
11a	CH100	5500	10.62	11.53	250
11a	CH120	5600	9.55	9.02	250
11a	CH140	5700	9.1	8.13	250
11n (HT20)	CH100	5500	10.71	11.78	250
11n (HT20)	CH120	5600	9.53	8.97	250
11n (HT20)	CH140	5700	8.08	6.43	250
11n (HT40)	CH102	5510	10.5	11.22	250
11n (HT40)	CH110	5550	10.52	11.27	250
11n (HT40)	CH134	5670	8.37	6.87	250
11ac (HT20)	CH100	5500	10.66	11.64	250
11ac (HT20)	CH120	5600	9.64	9.20	250
11ac (HT20)	CH140	5700	8.25	6.68	250
11ac (HT40)	CH102	5510	10.51	11.25	250
11ac (HT40)	CH110	5550	10.4	10.96	250
11ac (HT40)	CH134	5670	8.34	6.82	250
11ax (HE20)	CH100	5500	10.68	11.69	250
11ax (HE20)	CH120	5600	9.65	9.23	250
11ax (HE20)	CH140	5700	8.05	6.38	250
11ax (HE40)	CH102	5510	10.42	11.02	250
11ax (HE40)	CH110	5550	10.43	11.04	250
11ax (HE40)	CH134	5670	8.44	6.98	250

For U-NII-3

Modulation mode	Test Channel	Frequency(MHz)	Average Conducted Power		Limit(mW)
			(dBm)	(mW)	
11a	CH149	5745	9.57	9.06	1000
11a	CH157	5785	9.85	9.66	1000
11a	CH165	5825	10.45	11.09	1000
11n (HT20)	CH149	5745	12.03	15.96	1000
11n (HT20)	CH157	5785	12.58	18.11	1000
11n (HT20)	CH165	5825	12.76	18.88	1000
11n (HT40)	CH151	5755	11.84	15.28	1000
11n (HT40)	CH159	5795	12.31	17.02	1000

11ac (HT20)	CH149	5745	11.9	15.49	1000
11ac (HT20)	CH157	5785	12.4	17.38	1000
11ac (HT20)	CH165	5825	12.89	19.45	1000
11ac (HT40)	CH151	5755	11.86	15.35	1000
11ac (HT40)	CH159	5795	12.17	16.48	1000
11ax (HE20)	CH149	5745	11.79	15.10	1000
11ax (HE20)	CH157	5785	12.16	16.44	1000
11ax (HE20)	CH165	5825	12.81	19.10	1000
11ax (HE40)	CH151	5755	11.85	15.31	1000
11ax (HE40)	CH159	5795	12.15	16.41	1000

Test plots

For U-NII-1

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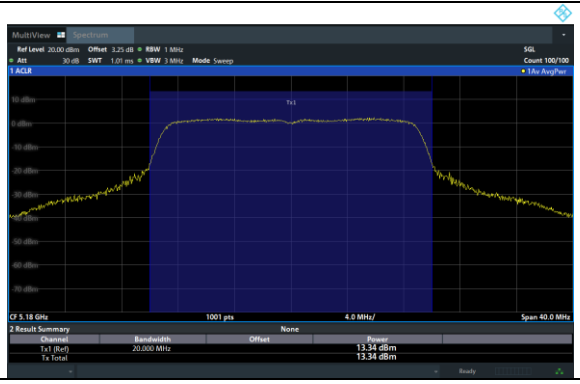	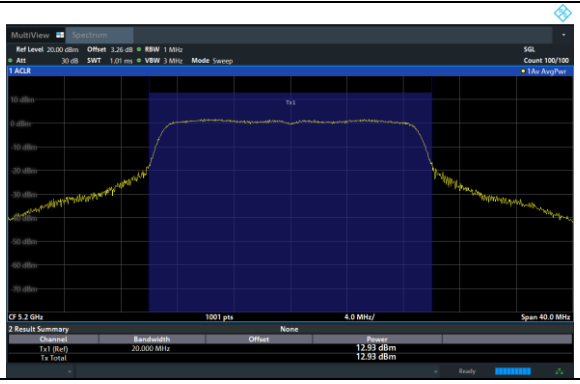
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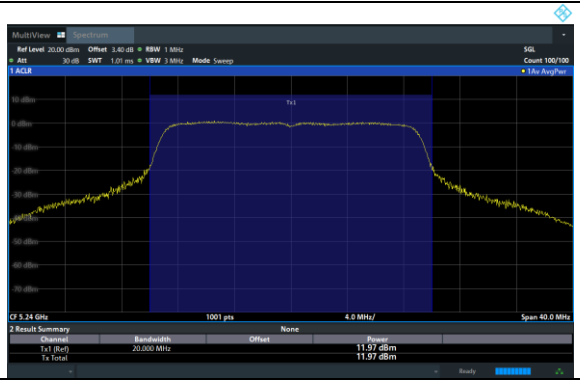	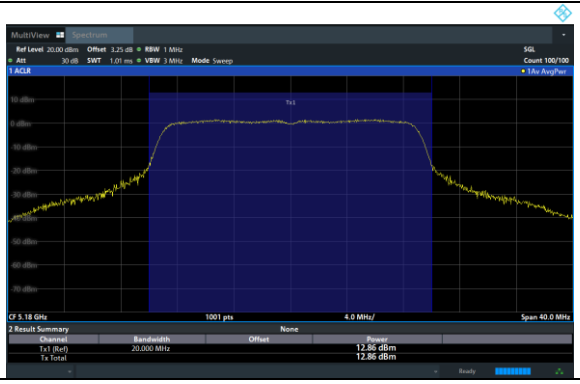
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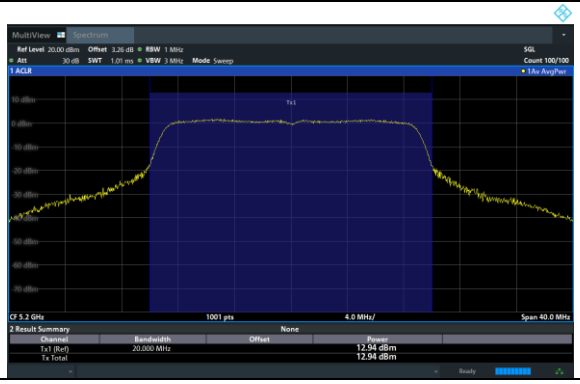
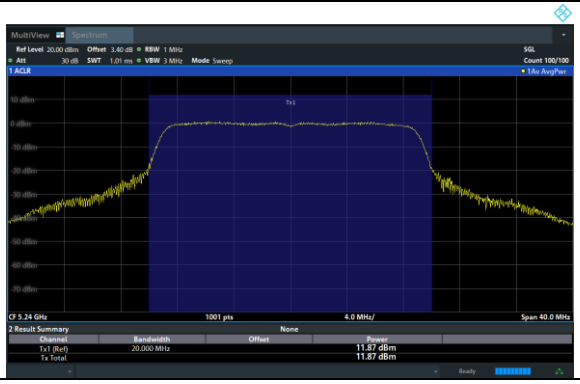
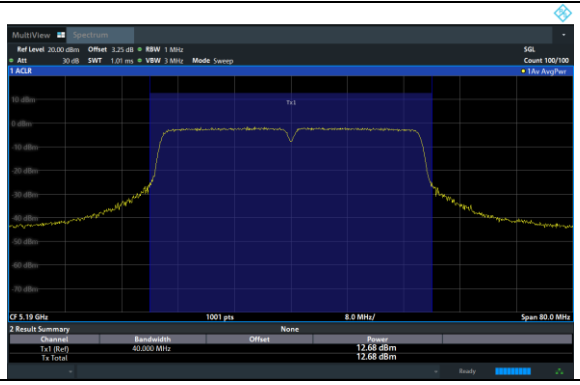
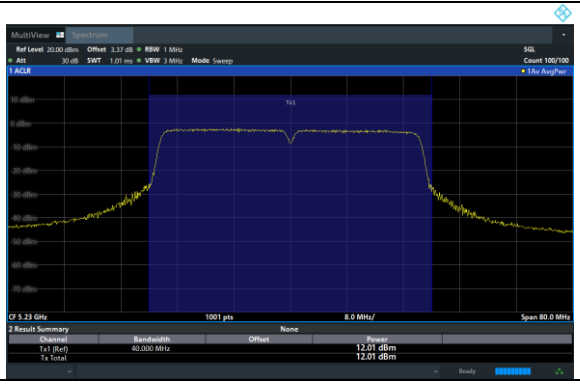
	

11n40 CH38	11n40 CH46
	
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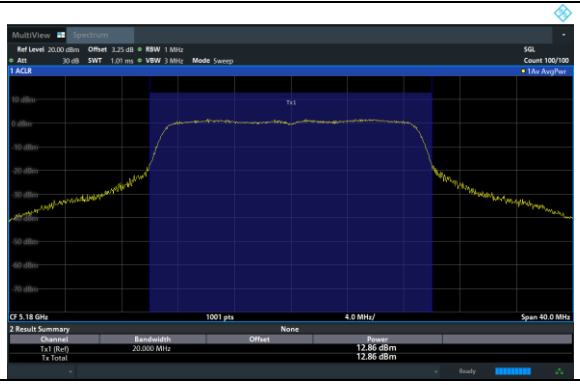	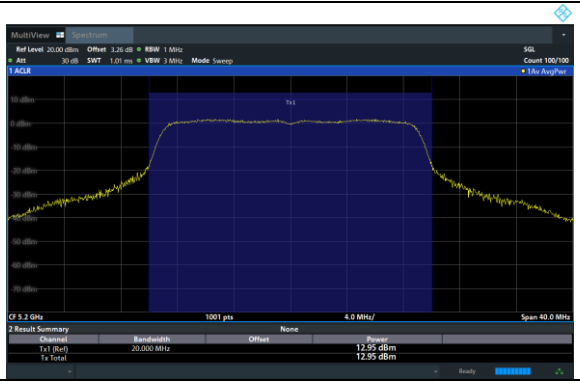
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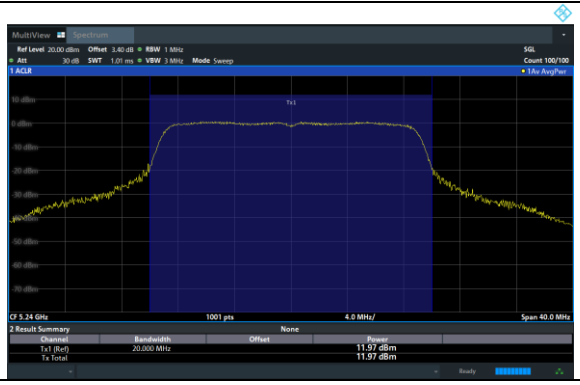	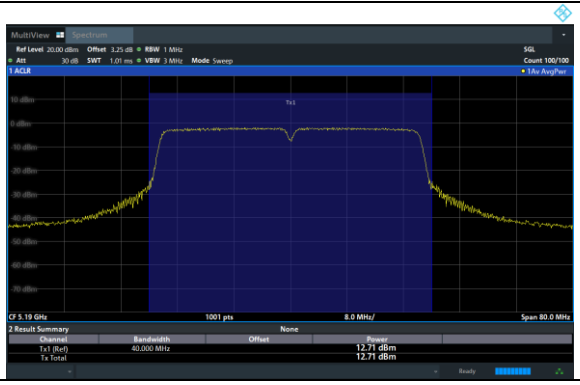

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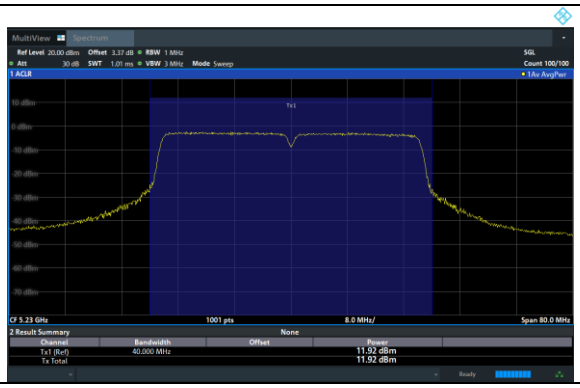
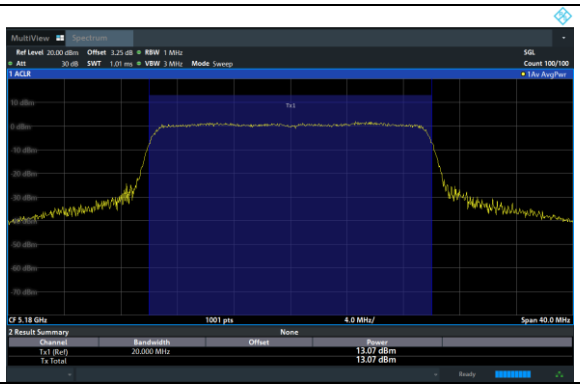


11ax20 CH36



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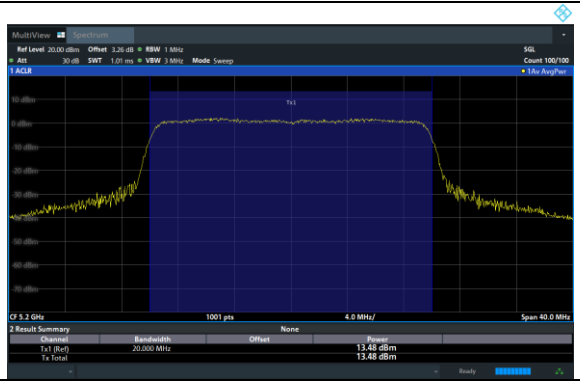

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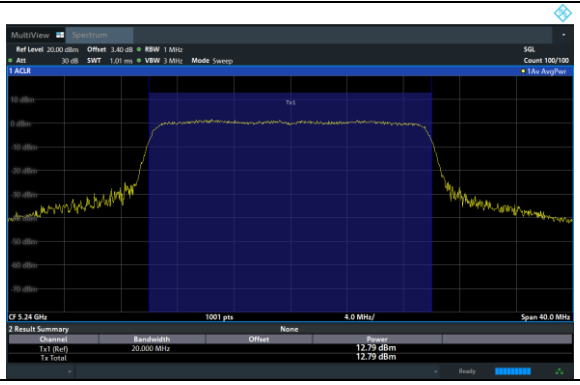

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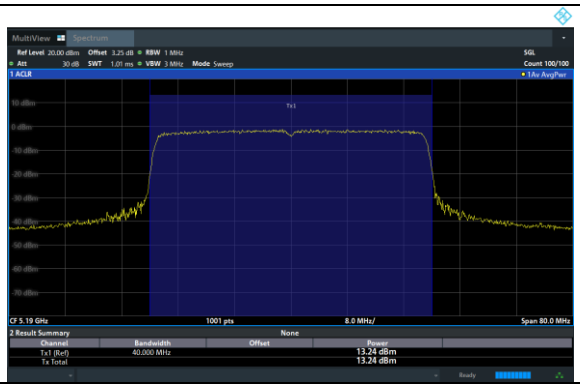
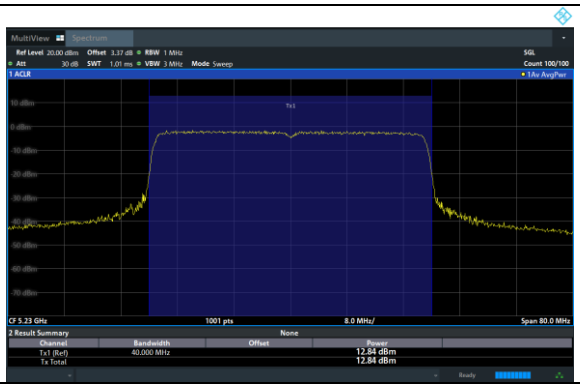
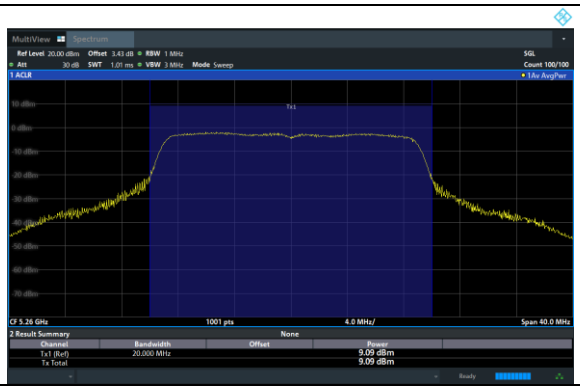
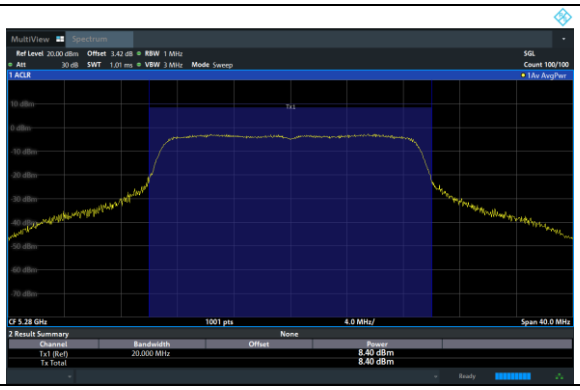
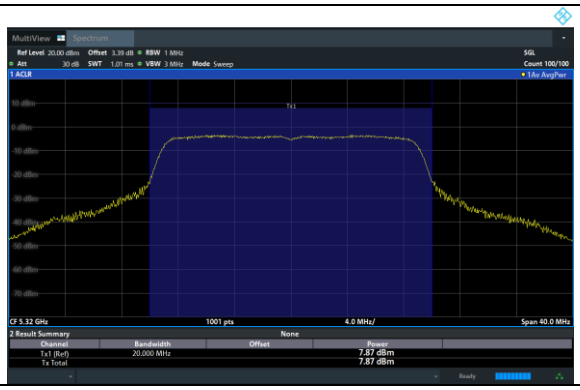
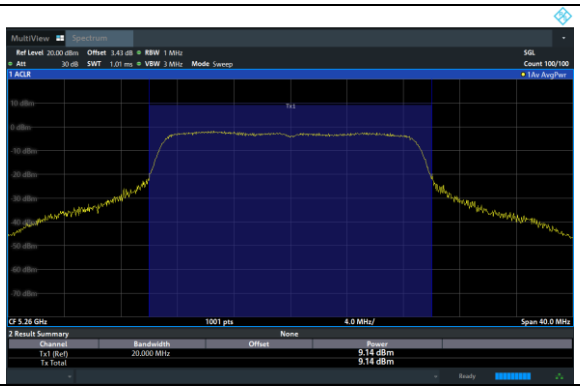


11ax40 CH46



Test plots

U-NII-2A

11a CH52	11a CH56
	
11a CH64	11n20 CH52
	
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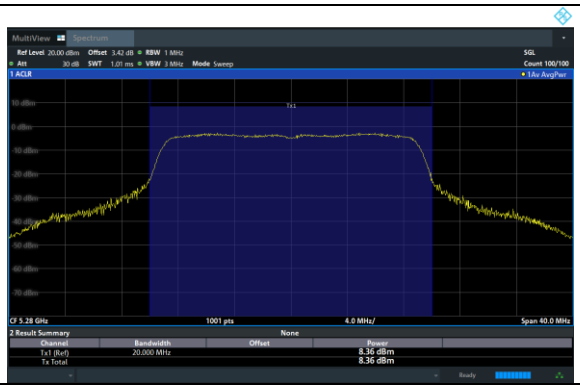	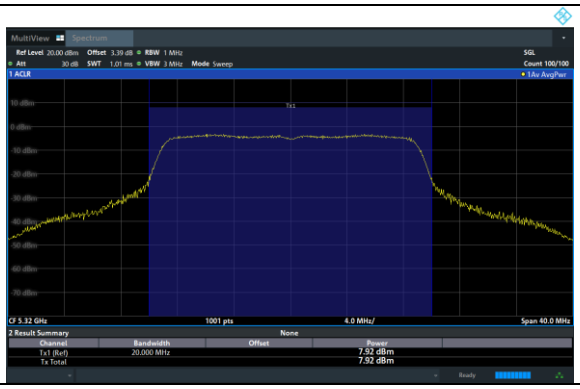

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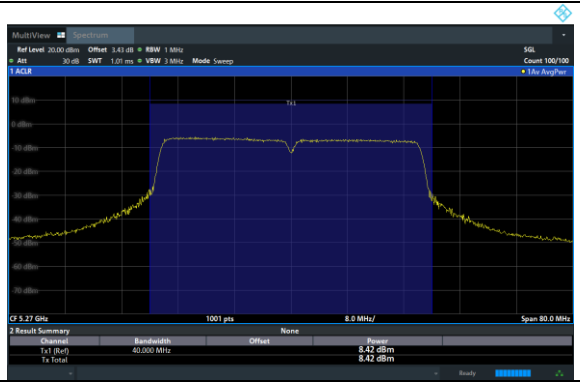	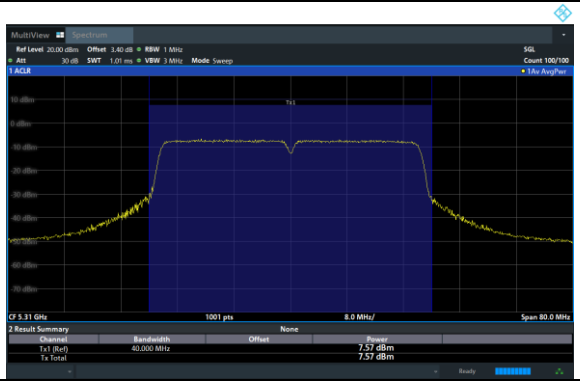
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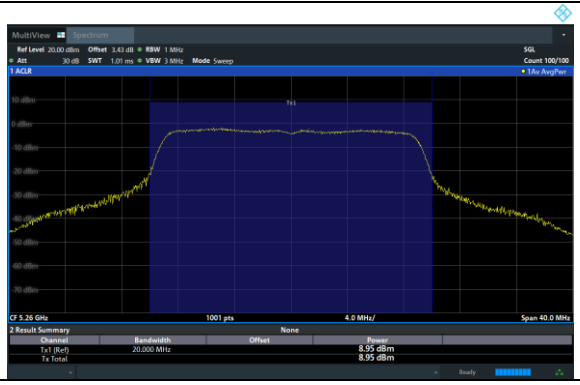	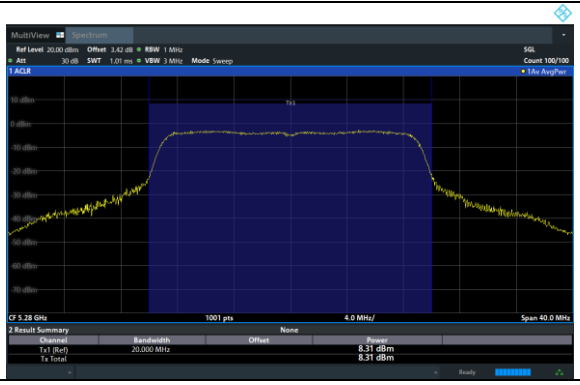
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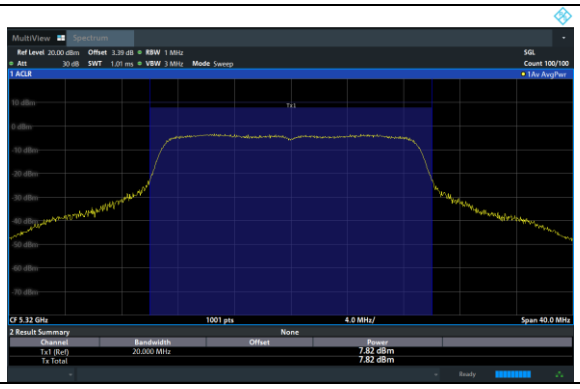
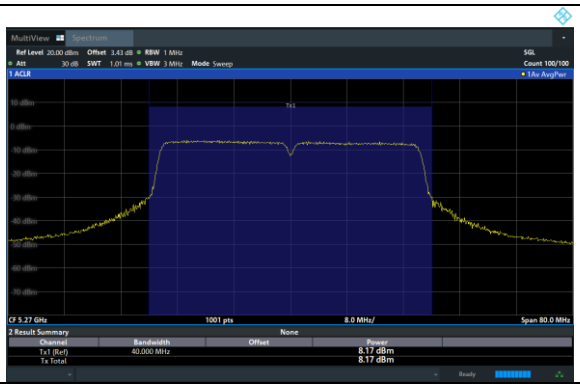
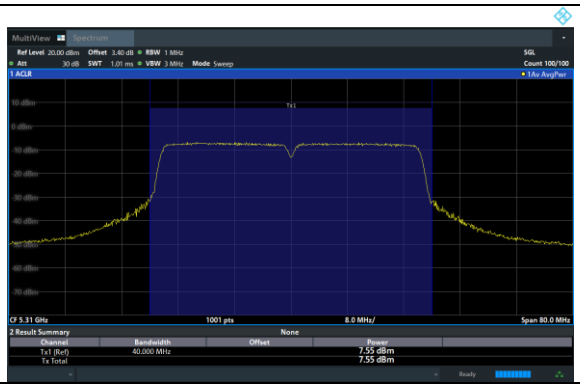
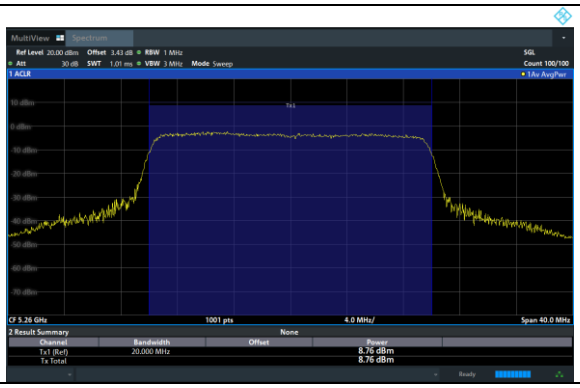
	

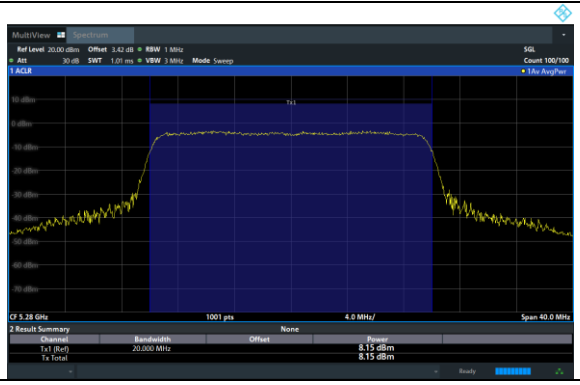
11ac40 CH62



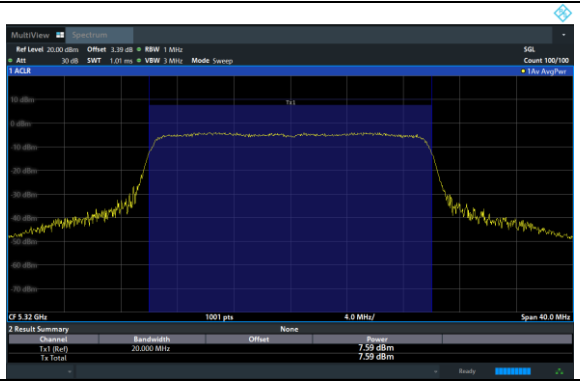
11ax20 CH52



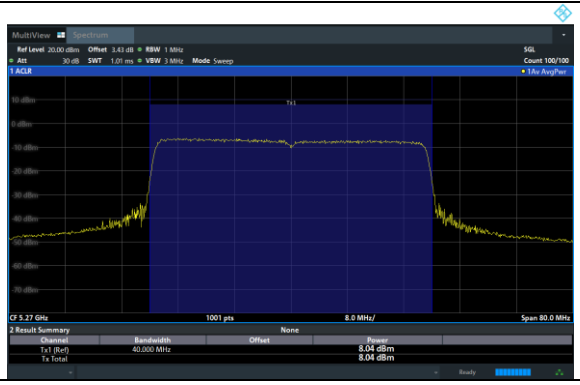
11ax20 CH56



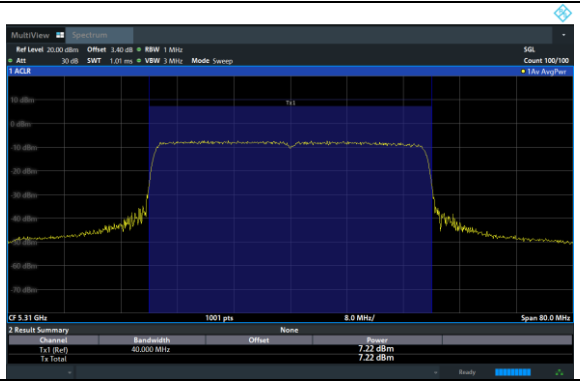
11ax20 CH64



11ax40 CH54

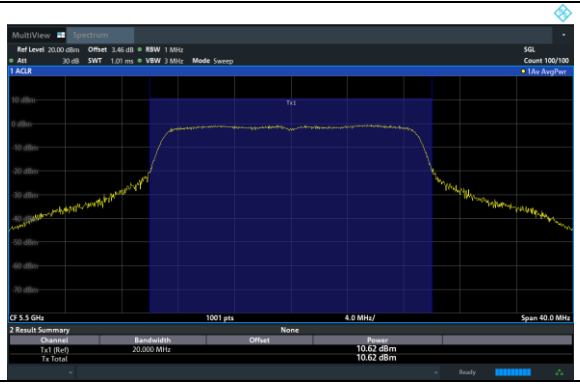
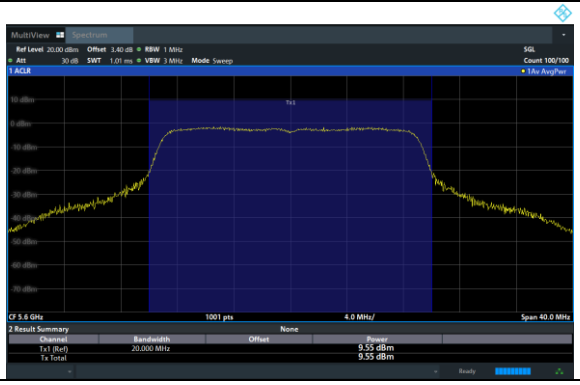
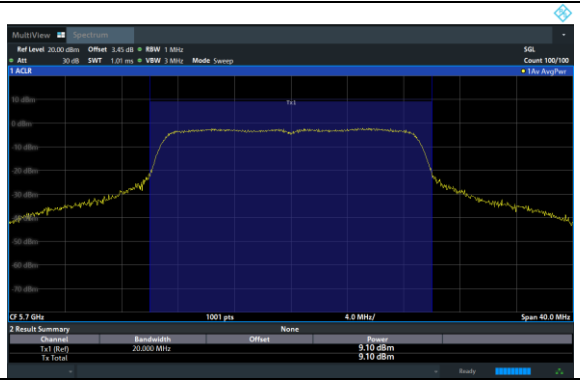
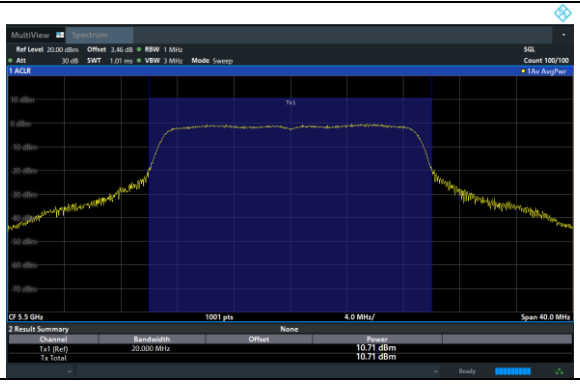


11ax40 CH62



Test plots

U-NII-2C

11a CH100	11a CH120
	
11a CH140	**11n20 CH100**
	
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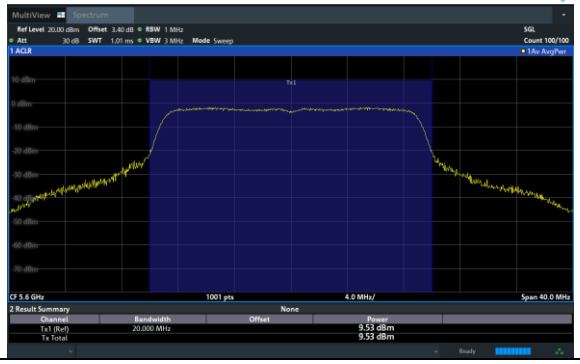
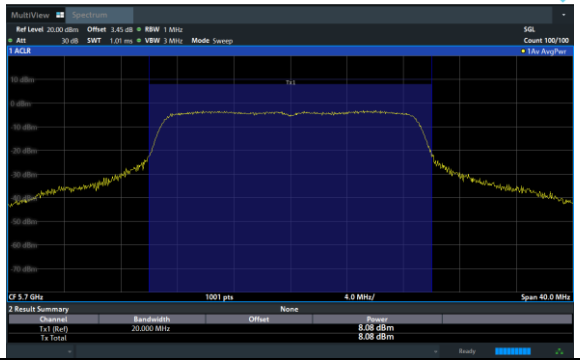
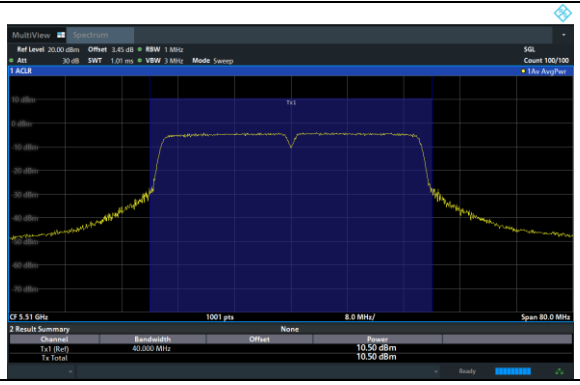
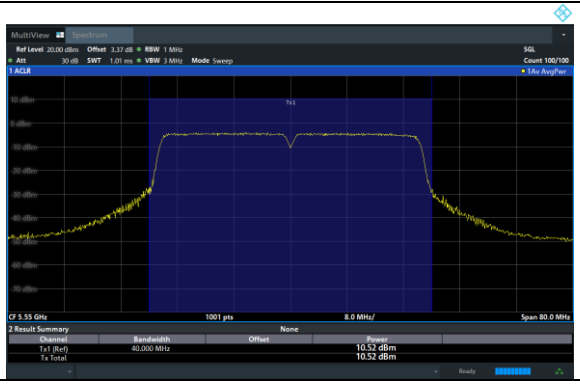
	

11n40 CH102	11n40 CH110
	
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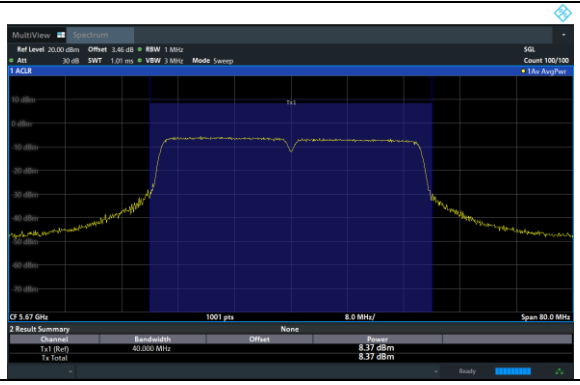
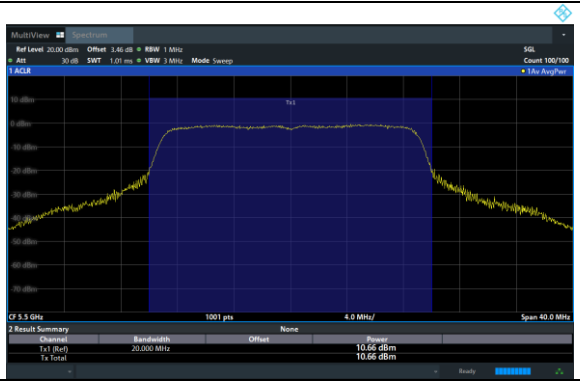
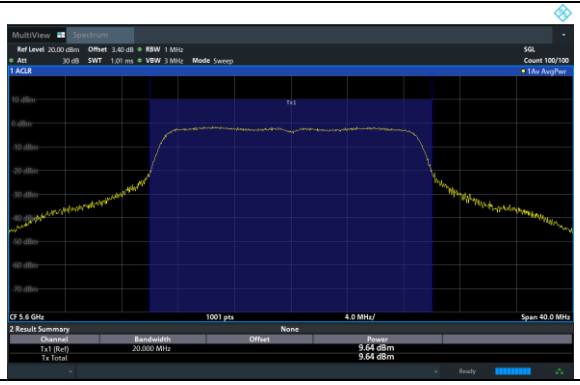
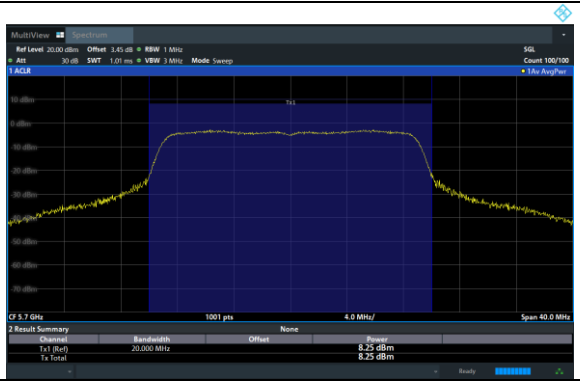
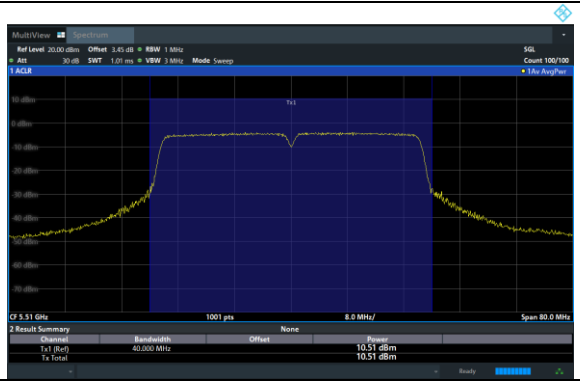
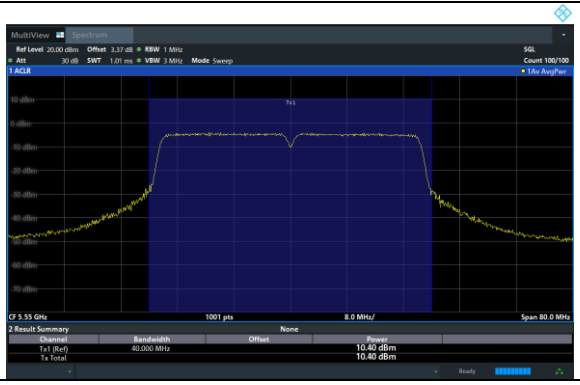
	
11ac20 CH120	**11ac20 CH140**
	

11ac40 CH102	11ac40 CH110
	
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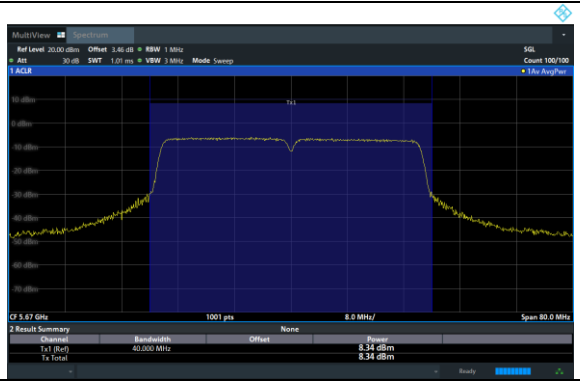
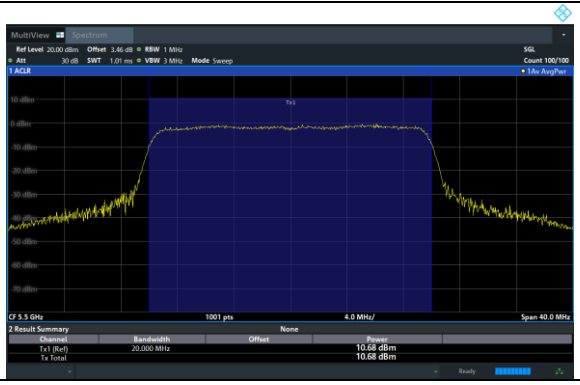
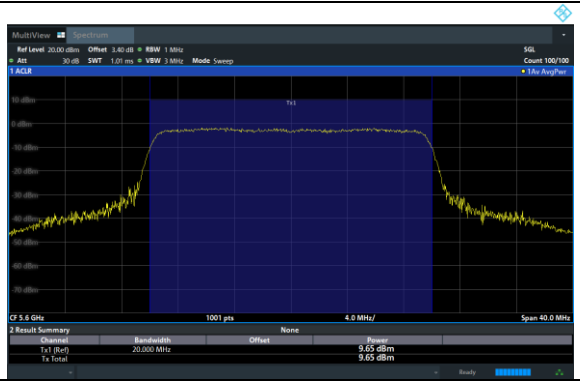
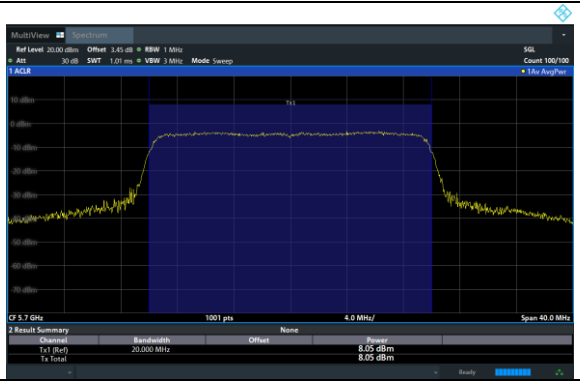
	
11ax20 CH120	**11ax20 CH140**
	

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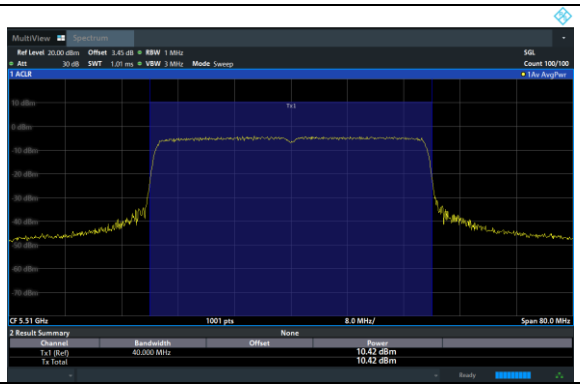	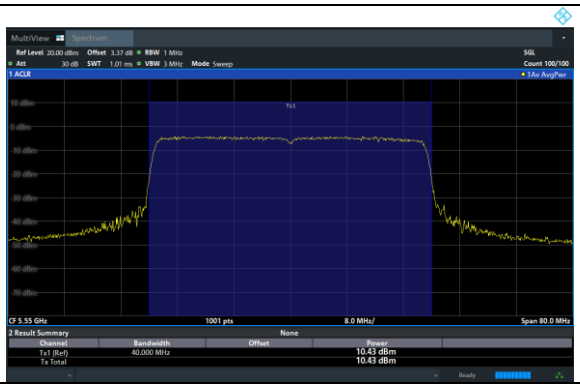
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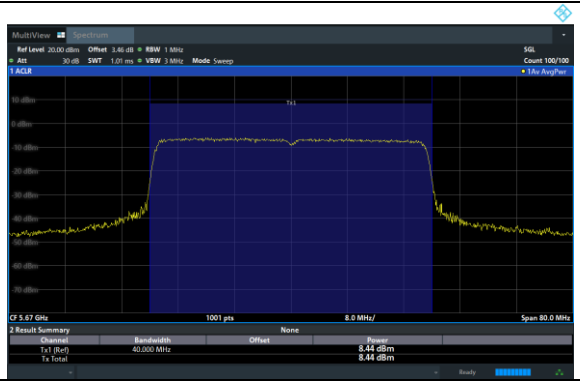
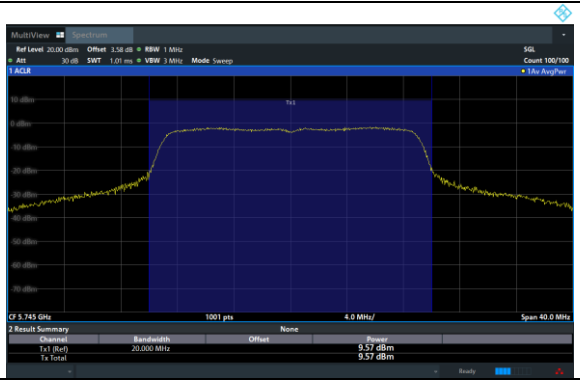
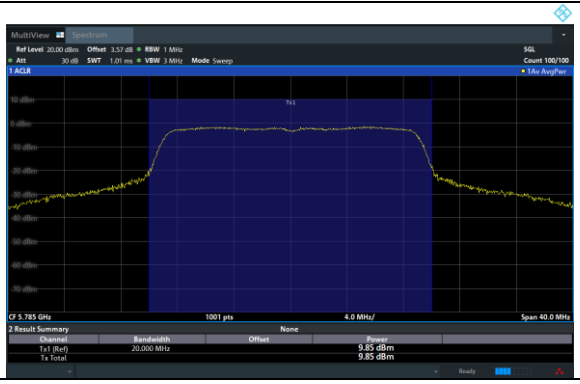
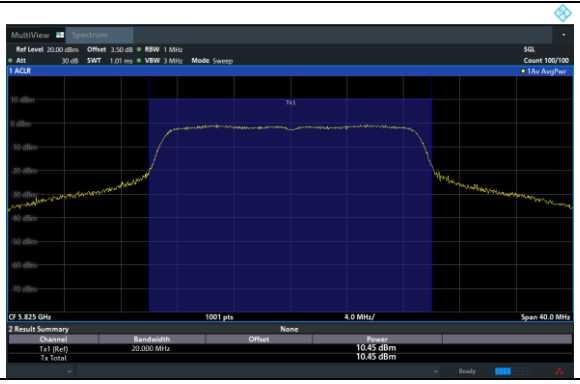
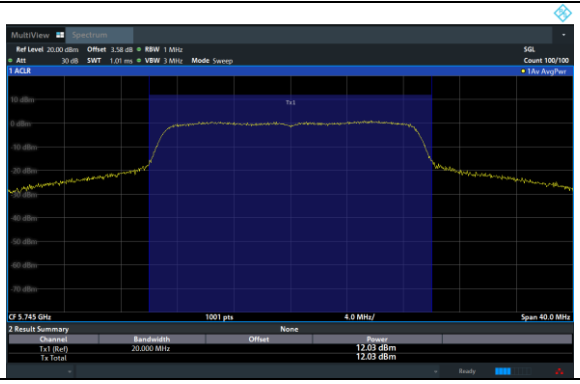
	/

Test plots

For U-NII-3

11a CH149	11a CH157
	
11a CH165	**11n20 CH149**
	
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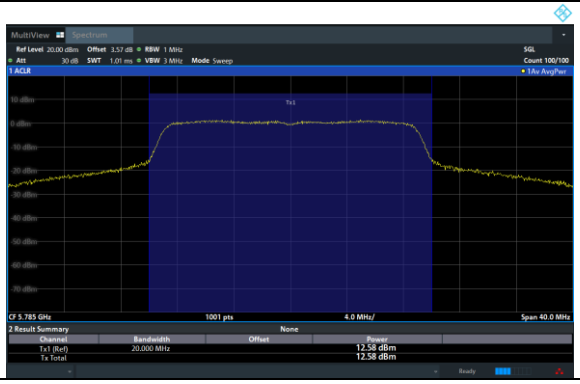	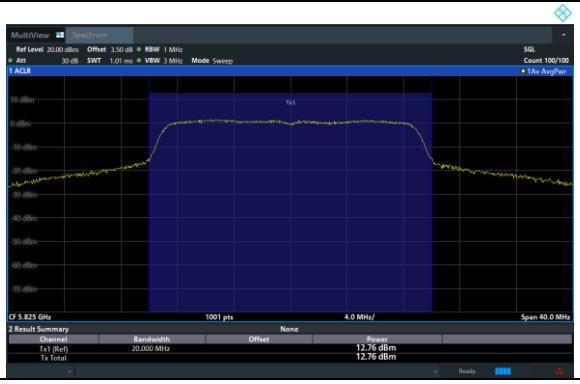

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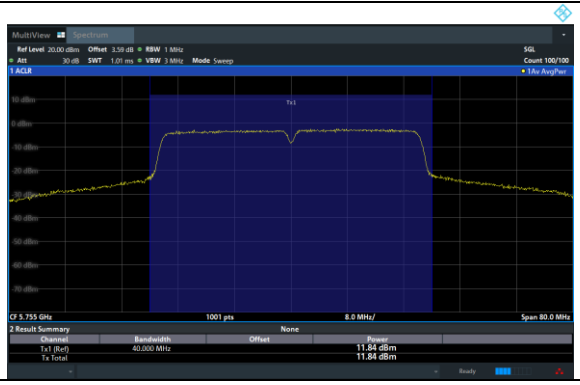	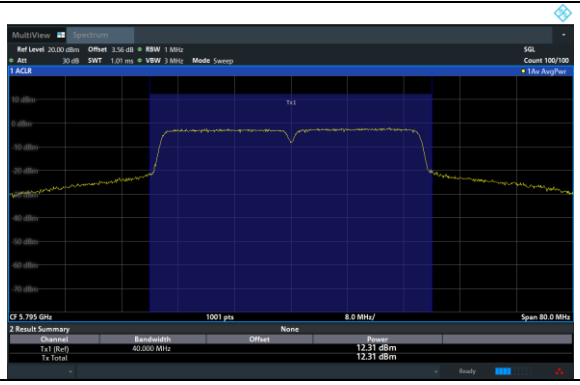
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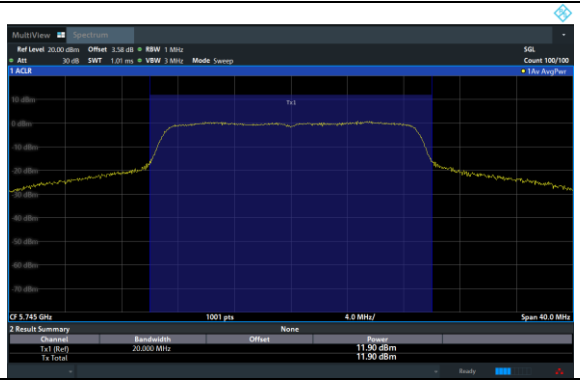	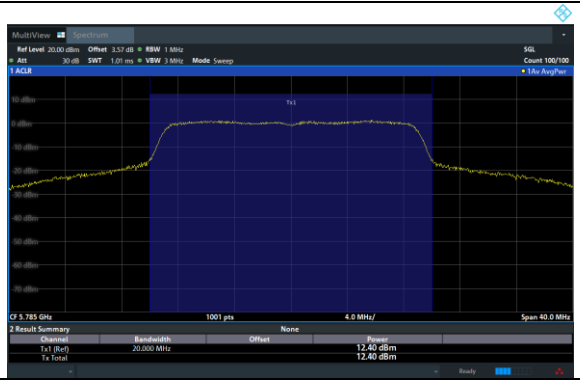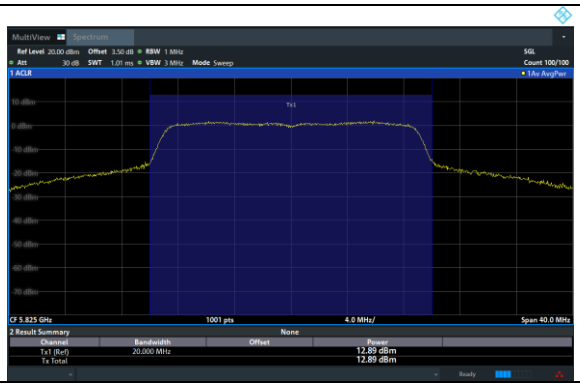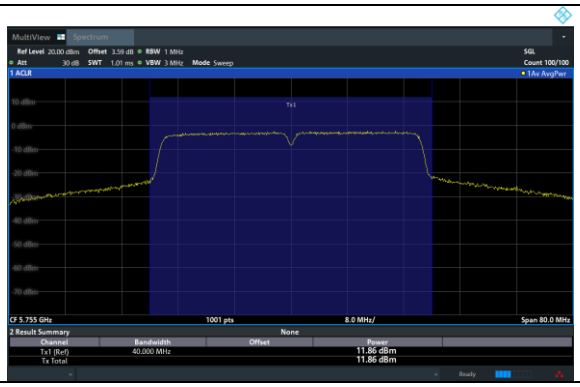
11ac20 CH165	**11ac40 CH151**