

Test Report for FCC

FCC ID : 2A2JFZENITHZ5

Report Number		ESTRFC2108-004		
Applicant	Company name	EZDS Co., Ltd.		
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	Telephone	+82-70-7733-7774		
	Contact person	Jungho CHO		
Product	Product name	Automotive Diagnostic Scan tool		
	Model No.	ZENITH Z5	Manufacturer	EZDS Co., Ltd.
	Serial No.	None	Country of origin	KOREA
Test date	2021-08-13 ~ 2021-08-27		Date of issue	30-Aug-21
Testing location	347-69, Jungbu-daero 147beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do 467-811, R. O. Korea			
Standard	FCC PART 15 Subpart E , ANSI C 63.10 , KDB 789033			
Measurement facility registration number		659627		
Tested by	Senior Engineer H.K. Lee		(Signature)	
Reviewed by	Engineering Manager I.K. Hong		(Signature)	
Abbreviation	OK, Pass = Passed, Fail = Failed, N/A = not applicable			
* Note - This test report is not permitted to copy partly without our permission - This test result is dependent on only equipment to be used - This test result based on a single evaluation of one sample of the above mentioned				

Contents

1. Laboratory Information	3
2. Description of EUT	4
2.1 Description	4
2.2 Test channel	4
2.3 Duty Cycle	5
2.4 Uncertainty	9
2.5 Antenna gain	9
3. Test Standards	10
4. EUT Operation	11
4.1 Configuration and Peripherals	11
4.2 EUT and Support equipment	12
4.3 Cable Connecting	12
5. Emission Bandwidth	13
5.1 Test procedure	13
5.2 Test instruments and measurement setup	13
5.3 Measurement results	13
6. Minimum Emission Bandwidth (6 dB Bandwidth)	34
6.1 Test procedure	34
6.2 Test instruments and measurement setup	34
6.3 Measurement results	34
7. Maximum Conducted Output Power	42
7.1 Test procedure	42
7.2 Test instruments and measurement setup	42
7.3 Measurement results	43
8. Maximum power spectral density	46
8.1 Test procedure	46
8.2 Test instruments and measurement setup	46
8.3 Measurement results	46
9. Spurious Emission, Band Edge and Restricted bands	75
9.1 Measurement equipment	75
9.2 Environmental conditions	75
9.3 Measurement Instrument setting for Radiated Emission	76
9.4 Test Data.....	77
9.5 Restricted Band Edges	78
10. Measurement of conducted disturbance.....	257
10.1 Measurement equipments.....	257
10.2 Environmental Condition.....	257
10.3 Test Data.....	258

Appendix 1. Special diagram

Appendix 2. Antenna Requirement

1. Laboratory Information

1.1 General

This EUT (Equipment Under Test) has been shown to be capable of compliance with the applicable technical standards and is tested in accordance with the measurement procedures as indicated in this report.

ESTECH Lab attests to accuracy of test data. All measurement reported herein were performed by ESTECH Co., Ltd.

ESTECH Lab assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

1.2 Test Lab.

Corporation Name : ESTECH Co., Ltd.

Head Office : Suite 1015 World Meridian II, 123 Gasan Digital 2-ro, Geumcheon-gu, Seoul 153-759, R. O. Korea

EMC/Telecom/Safety Test Lab : 347-69, Jungbu-daero 147beon-gil, Majang-myeon, Icheon-si,
Gyeonggi-do 467-811, R. O. Korea

1.3 Official Qualification(s)

MSIP : Granted Accreditation from Ministry of Information & Communication for EMC, Safety and Telecommunication

KOLAS : Accredited Lab By Korea Laboratory Accreditation Schema base on CENELEC requirements

FCC : Conformity Assessment Body(CAB) with registration number 659627 under APEC TEL MRA between the RRA and the FCC

VCCI : Granted Accreditation from Voluntary Control Council for Interference from ITE

2.1 Description of EUT

Product	Automotive Diagnostic Scan tool
Model Name	ZENITH Z5
Power supply rating	DC 3.8 V
Modulation type	OFDM
Transfer Rate	802.11a : 6 ~ 54 Mbps, 802.11n(HT20) : MCS 0 ~ MCS 7, 802.11ac(VHT20) : MCS 0 ~ MCS 8, 802.11n(HT40) : MCS 0 ~ MCS 7, 802.11ac(VHT40) : MCS 0 ~ MCS 9, 802.11ac(VHT80) : MCS 0 ~ MCS 9
Output Power	5 180 ~ 5 240 MHz : 14.13 dBm
	5 260 ~ 5 320 MHz : 14.20 dBm
	5 500 ~ 5 700 MHz : 13.87 dBm
	5 745 ~ 5 825 MHz : 14.08 dBm
Antenna Type	Internal antenna

2.2 Test channel

a. Channel 802.11a/802.11n HT20/802.11ac HT20

Ch.	Frequency	Ch.	Frequency
36	5 180 MHz	100	5 500 MHz
40	5 200 MHz	104	5 520 MHz
~	~	~	~
64	5 320 MHz	140	5 700 MHz
		149	5 745 MHz
		153	5 765 MHz
		~	~
		165	5 825 MHz

b. Channel 802.11n HT40/802.11ac HT40

Ch.	Frequency	Ch.	Frequency
38	5 190 MHz	102	5 510 MHz
40	5 200 MHz	110	5 550 MHz
~	~	~	~
62	5 310 MHz	134	5 670 MHz
		151	5 755 MHz
		159	5 795 MHz

c. Channel 802.11ac HT80

Ch.	Frequency	Ch.	Frequency
42	5 210 MHz	106	5 530 MHz
58	5 290 MHz	122	5 610 MHz
		155	5 775 MHz

2.3 Duty Cycle

802.11a : Duty cycle = $1.044/1.238=0.843$, Duty factor : $10 \cdot \log(1/0.843)=0.74$

802.11n (HT20) : Duty cycle = $1.039/1.233=0.842$, Duty factor : $10 \cdot \log(1/0.842)=0.743$

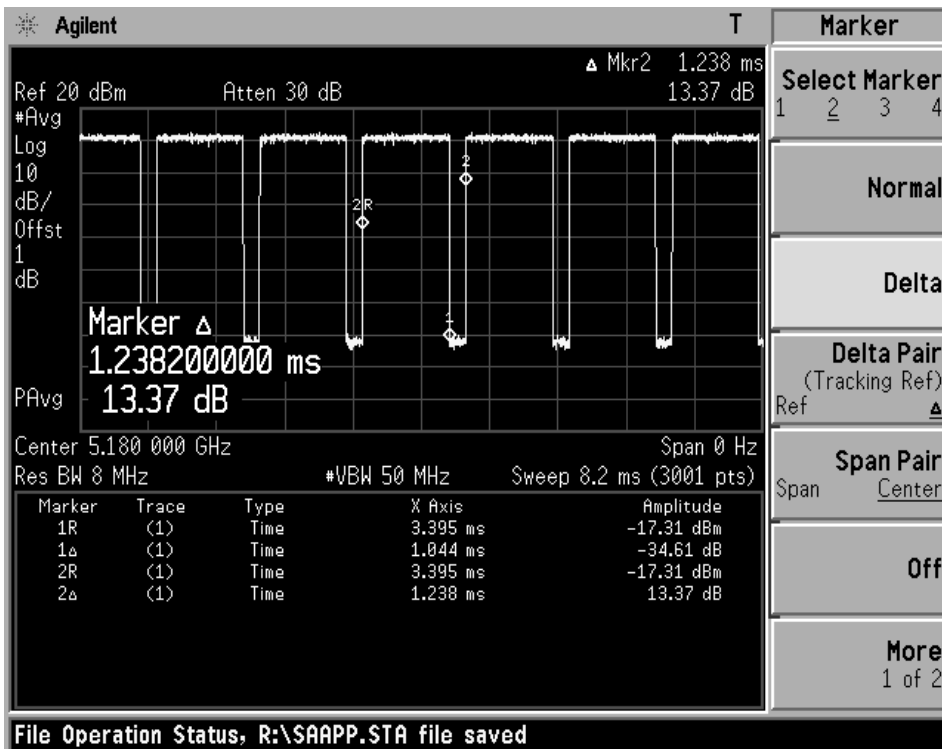
802.11ac (VHT20) : Duty cycle = $0.979/1.173=0.835$, Duty factor : $10 \cdot \log(1/0.835)=0.781$

802.11n (HT40) : Duty cycle = $0.489/0.685=0.713$, Duty factor : $10 \cdot \log(1/0.713)=1.466$

802.11ac (VHT40) : Duty cycle = $0.494/0.690=0.715$, Duty factor : $10 \cdot \log(1/0.715)=1.455$

802.11ac (VHT80) : Duty cycle = $0.978/1.175=0.832$, Duty factor : $10 \cdot \log(1/0.832)=0.796$

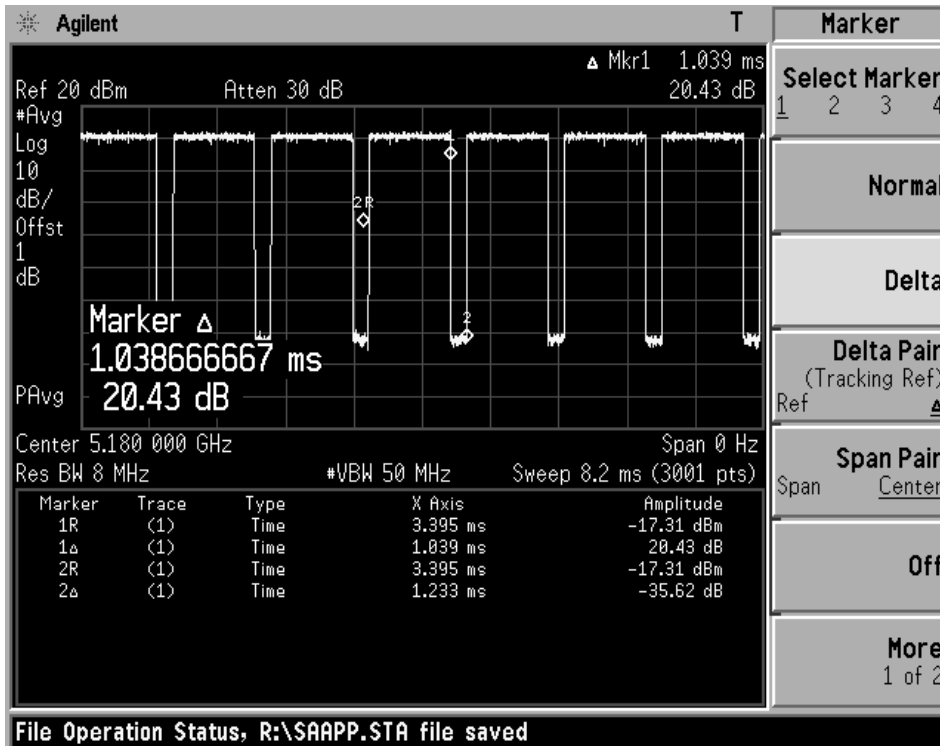
802.11a



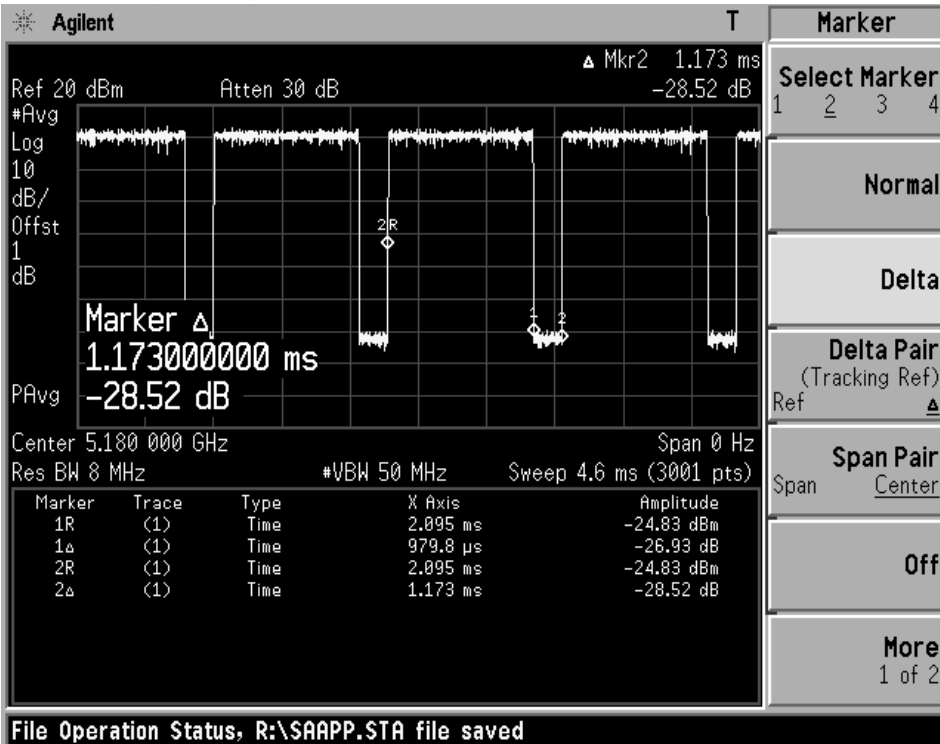


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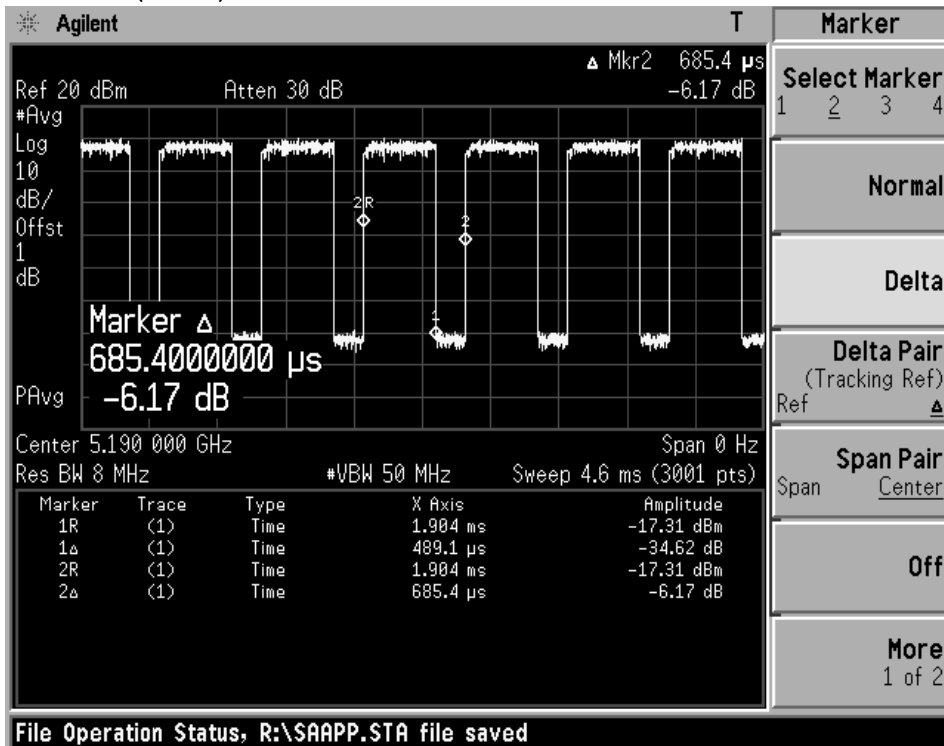
802.11n (HT20)



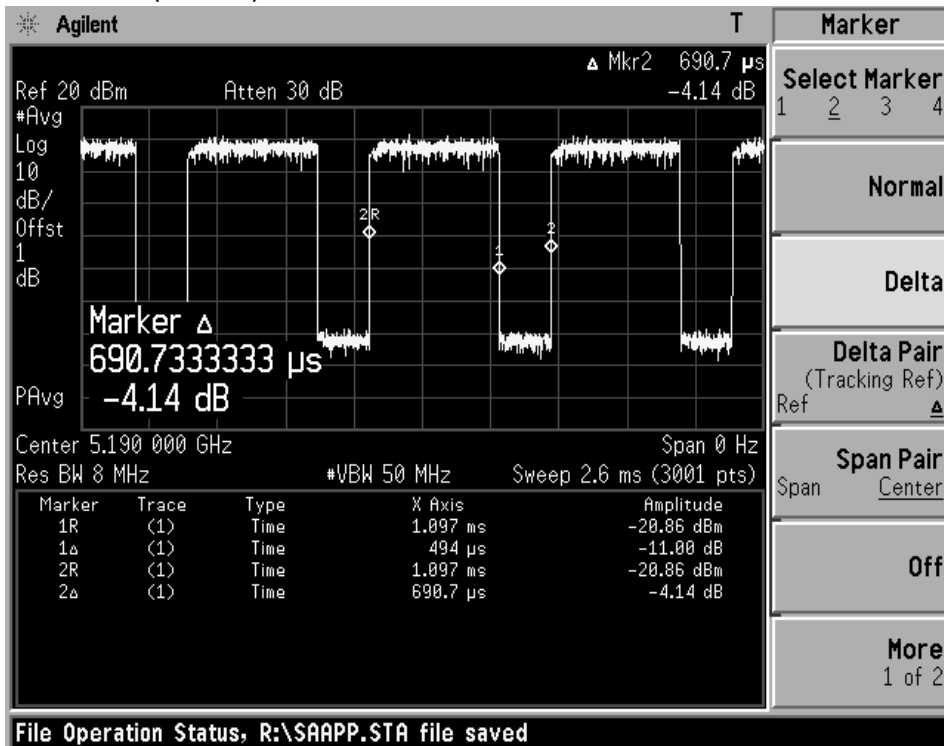
802.11ac (VHT20)



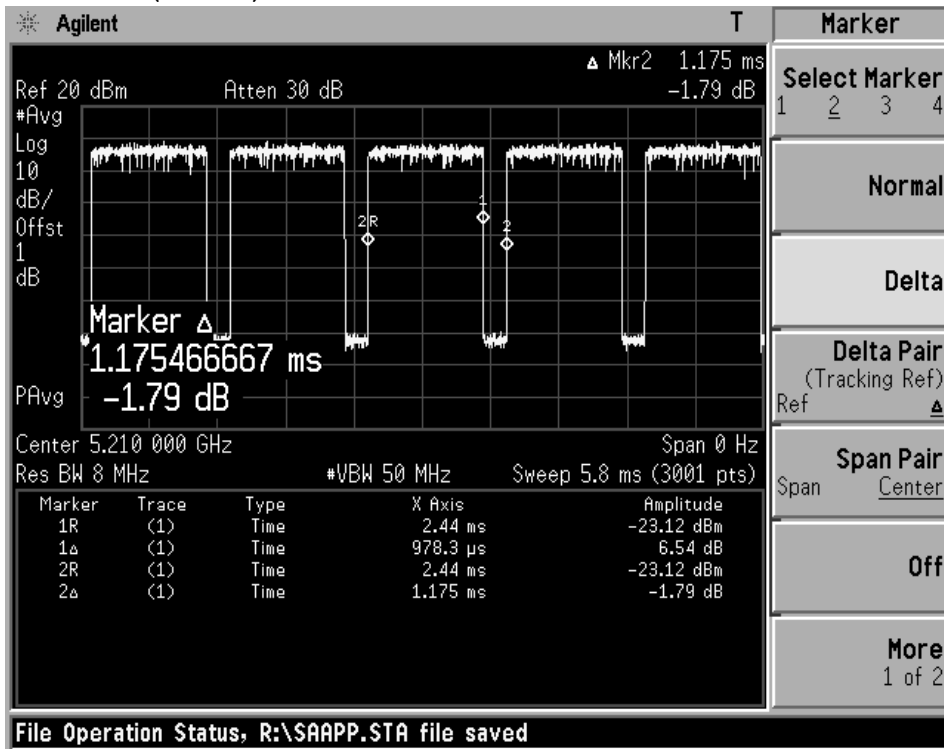
802.11n (HT40)



802.11ac (VHT40)



802.11ac (VHT80)





2.4 Uncertainty

Test items	Measurement uncertainty
	30 MHz ~ 1 GHz : 4.60 dB
	Above 1 GHz : 4.88 dB
	9 kHz ~ 30 MHz : 1.86 dB
Conducted Emission	

2.5 Antenna gain

Band	Antenna gain (dBi)
U-NII 1	1.249
U-NII 2A	0.245
U-NII 2C	2.641
U-NII 3	1.597

3. Test Standards

Test Standard : FCC PART 15 Subpart E (15.407)

This Standard sets out the regulations under which an intentional, unintentional, or incidental radiator may be operated without an individual license. It also contains the technical specifications, administrative requirements and other conditions relating to the marketing of Part 15 devices.

Test Method : ANSI C 63.10 & KDB789033

This standard sets forth uniform methods of measurement of radio-frequency (RF) signals and noise emitted from both unintentional and intentional emitters of RF energy in the frequency range 9 kHz to 40 GHz. Methods for the measurement of radiated and AC power-line conducted radio noise are covered and may be applied to any such equipment unless otherwise specified by individual equipment requirements. These methods cover measurement of certain devices that deliberately radiate energy, such as intentional emitters, but does not cover licensed transmitters. This standard is not intended for certification/approval of avionic equipment or for industrial, scientific, and medical (ISM) equipment. These methods apply to the measurement of individual units or systems comprised of multiple units.

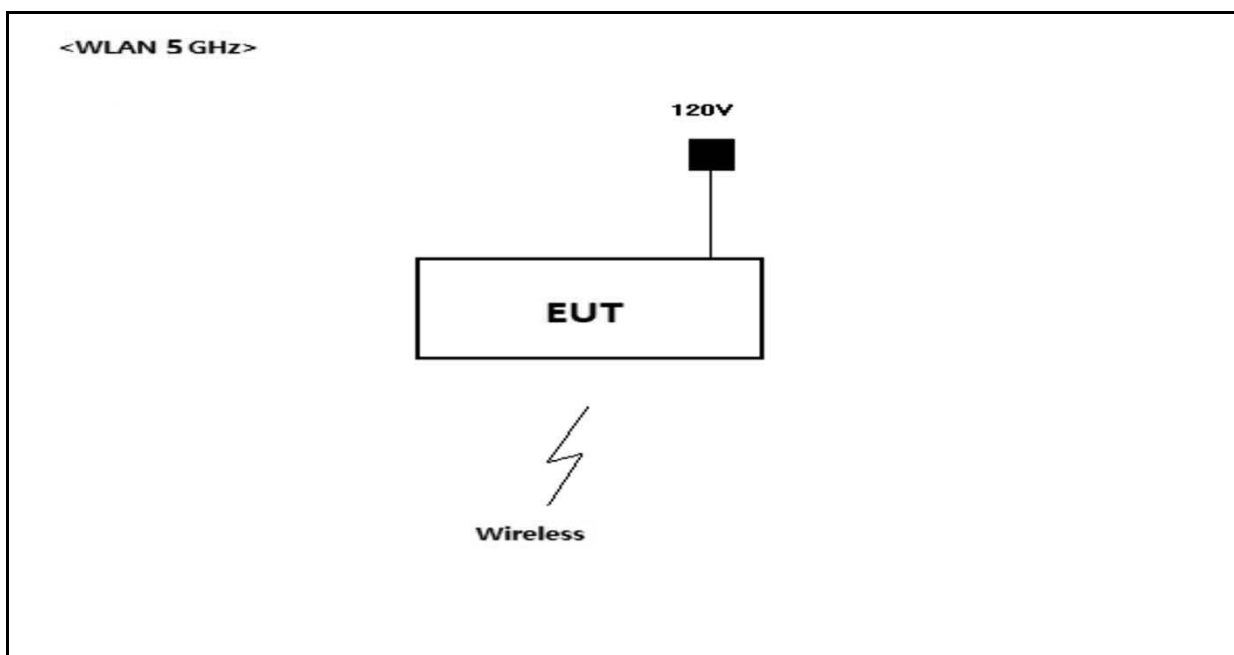
Summary of Test Results

Applied Standard : 47 CFR Part 15			
Standard	Test Type	Test Result	Remark
15.207	AC Power Conducted Emission	Pass	Meet the requirement of limit.
15.407(a)	26 dB Bandwidth	–	Reference only
15.407(e)	6 dB Bandwidth	Pass	U-NII 3 Band only
15.407(a)	maximum conducted output power	Pass	Meet the requirement of limit.
15.407(b) & 15.205 & 15.209	Spurious Emission	Pass	Meet the requirement of limit.
15.407(a)	Maximum power spectral density	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	Internal antenna

4. EUT Operation

- The EUT was in the following operation mode during all testing
 - * Wireless LAN 5 GHz operation check
 - * Transmit mode were measured each channels(802.11a, 802.11n HT20, 802.11n HT40, 802.11ac VHT20, 802.11acVHT40, 802.11ac VHT80)

4.1 Configuration and Peripherals



4.2 EUT and Support equipment

Equipment Name	Model Name	S/N	Manufacturer	Remark (FCC ID)
Automotive Diagnostic Scan tool	ZENITH Z5	NONE	EZDS Co., Ltd.	EUT
Adapter	SK05T-1200320Z	21041901000022	Shenzhen Simsukian Electronics Technology Co., Ltd.	

4.3 Cable Connecting

Start Equipment		End Equipment		Cable Standard		Remark
Name	I/O port	Name	I/O port	Length	Shielded	
Automotive Diagnostic Scan tool	Power	Adapter	-	2	Unshielded	

5. Emission Bandwidth (26 dB Bandwidth)

5.1 Test procedure

Acordding to 789033 D02 Meas Guidance

5.2 Test instruments and measurement setup

- a) Set RBW = approximately 1% of the emission bandwidth
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%

26dB Bandwidth Test Instruments

Description	Model	Serial Number	Cal. Due Date
Spectrum Analyzer	E4440A	US42041291	2021-12-01
Signal Analyzer	FSV40	100939	2021-12-01

5.3 Measurement results

MODE – 802.11a

BAND	Channel Frequency (MHz)	Bandwidth at 26dB below(MHz)	Channel	PASS/FAIL
U-NII 1	5 180	21.36	36	–
	5 220	21.10	40	–
	5 240	20.35	48	–
U-NII 2A	5 260	21.17	52	–
	5 300	20.35	60	–
	5 320	21.18	64	–
U-NII 2C	5 500	20.95	100	–
	5 580	21.64	116	–
	5 700	21.22	144	–

MODE – 802.11n (HT20)

BAND	Channel Frequency (MHz)	Bandwidth at 26dB below(MHz)	Channel	PASS/FAIL
U-NII 1	5 180	21.86	36	–
	5 220	21.59	40	–
	5 240	21.83	48	–
U-NII 2A	5 260	21.59	52	–
	5 300	22.11	60	–
	5 320	21.76	64	–
U-NII 2C	5 500	21.96	100	–
	5 580	22.43	116	–
	5 700	21.68	144	–

MODE – 802.11ac (VHT20)

BAND	Channel Frequency (MHz)	Bandwidth at 26dB below(MHz)	Channel	PASS/FAIL
U-NII 1	5 180	21.45	36	–
	5 220	21.49	40	–
	5 240	21.20	48	–
U-NII 2A	5 260	21.62	52	–
	5 300	21.39	60	–
	5 320	21.72	64	–
U-NII 2C	5 500	21.42	100	–
	5 580	21.46	116	–
	5 700	21.52	144	–

MODE – 802.11n (HT40)

BAND	Channel Frequency (MHz)	Bandwidth at 26dB below(MHz)	Channel	PASS/FAIL
U-NII 1	5 190	48.90	38	–
	5 230	48.91	46	–
U-NII 2A	5 270	48.89	54	–
	5 310	48.92	62	–
U-NII 2C	5 510	48.88	102	–
	5 550	48.88	110	–
	5 670	49.00	142	–



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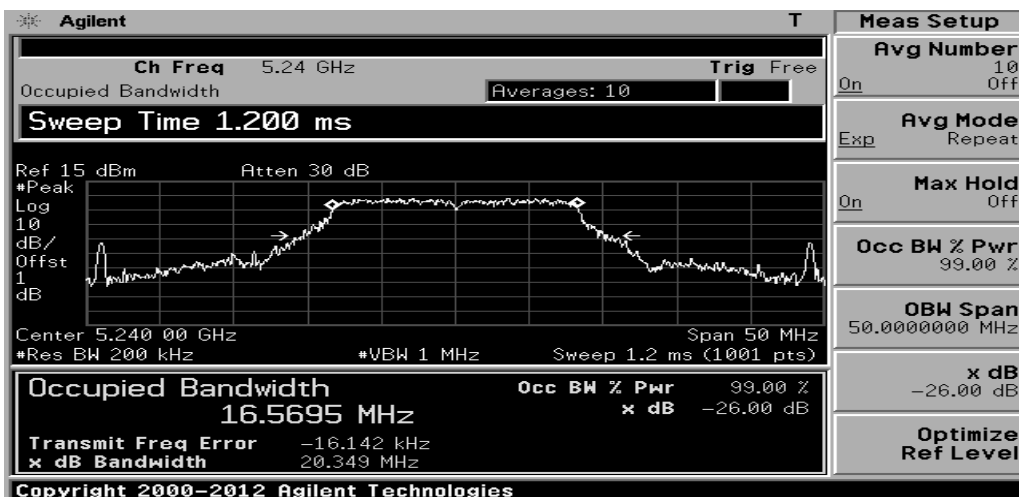
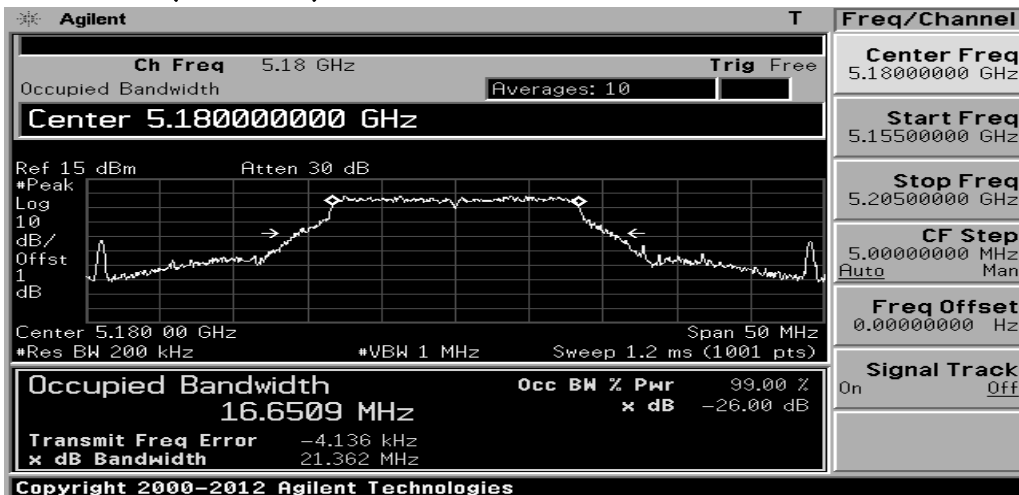
MODE – 802.11ac (VHT40)

BAND	Channel Frequency (MHz)	Bandwidth at 26dB below(MHz)	Channel	PASS/FAIL
U-NII 1	5 190	48.93	38	–
	5 230	48.99	46	–
U-NII 2A	5 270	48.93	54	–
	5 310	48.89	62	–
U-NII 2C	5 510	48.92	102	–
	5 550	48.88	110	–
	5 670	48.97	142	–

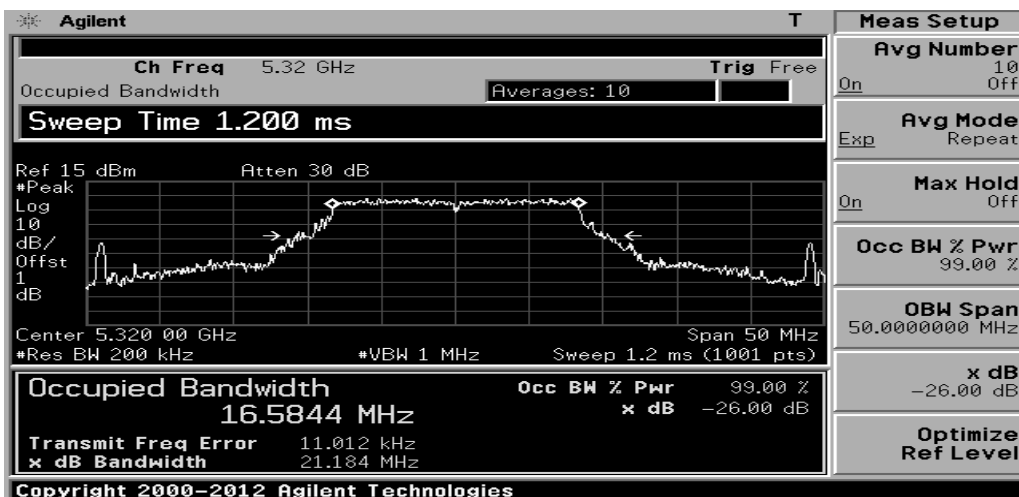
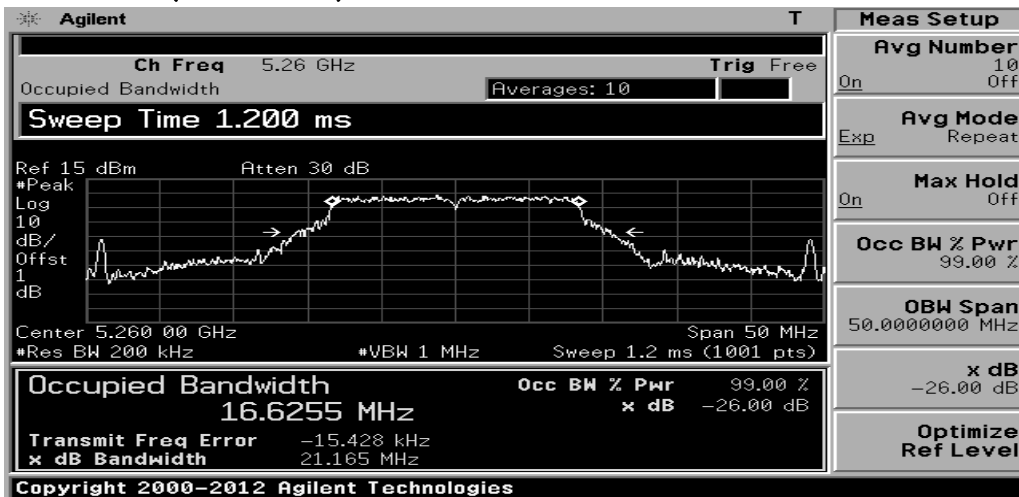
MODE – 802.11ac (VHT80)

BAND	Channel Frequency (MHz)	Bandwidth at 26dB below(MHz)	Channel	PASS/FAIL
U-NII 1	5 210	82.25	42	–
U-NII 2A	5 290	83.12	58	–
U-NII 2C	5 530	83.14	106	–
	5 610	82.88	122	–

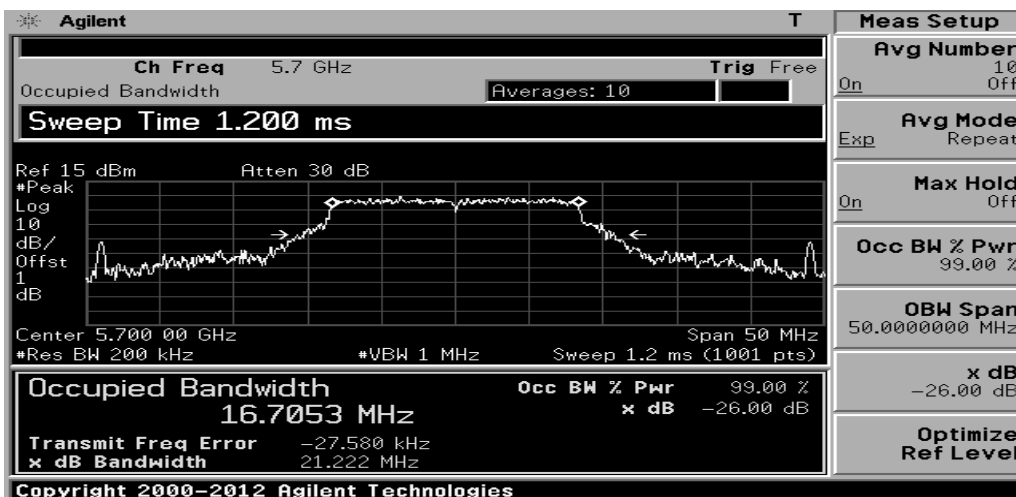
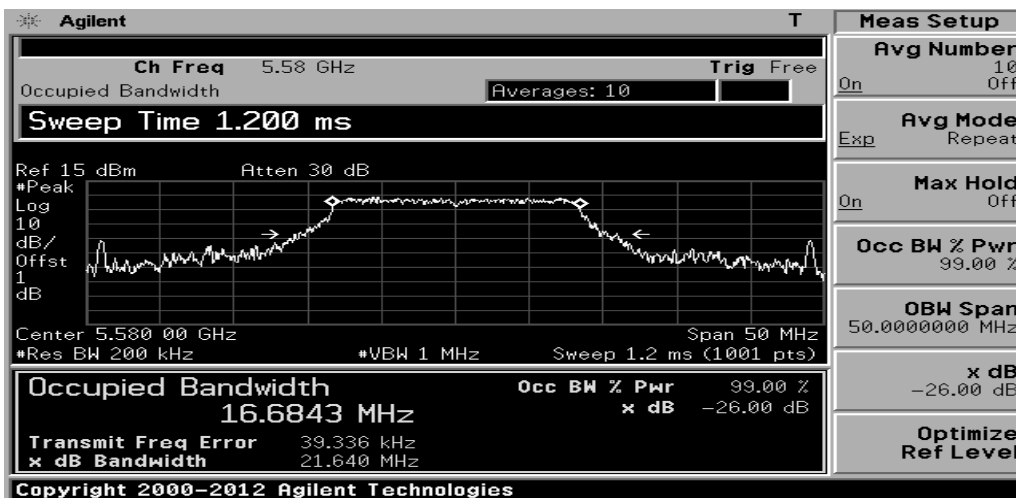
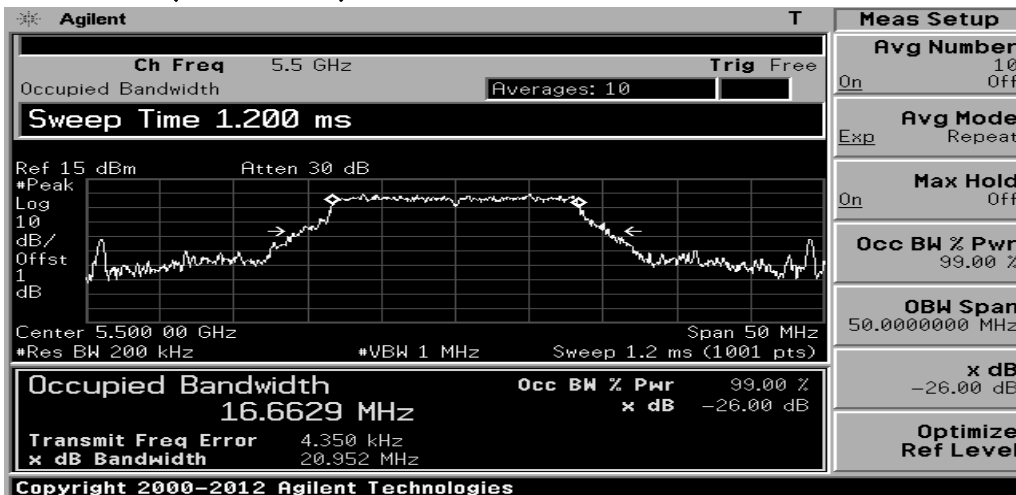
802.11a (U-NII 1)



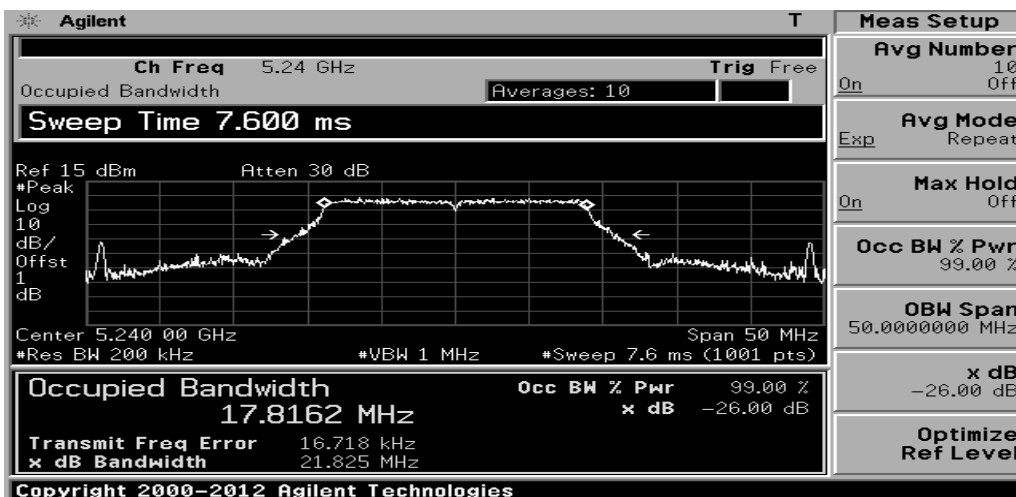
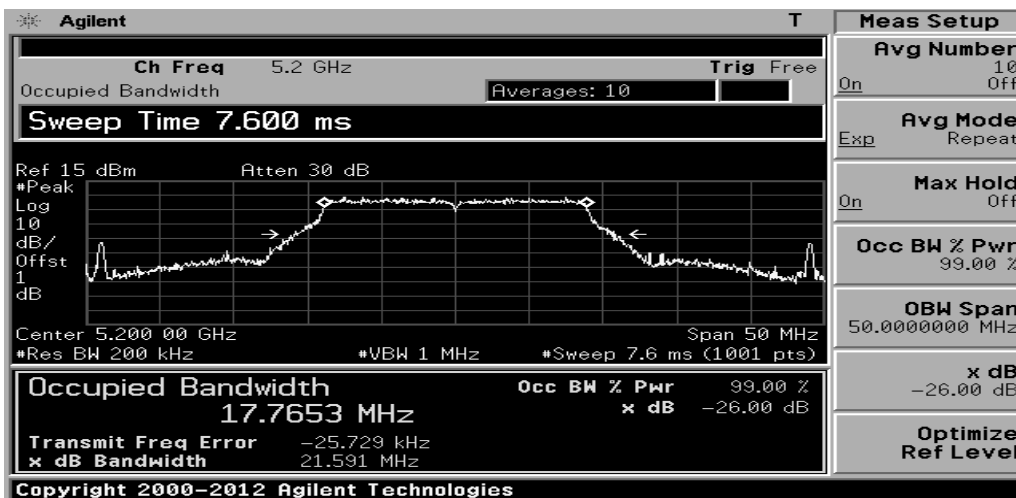
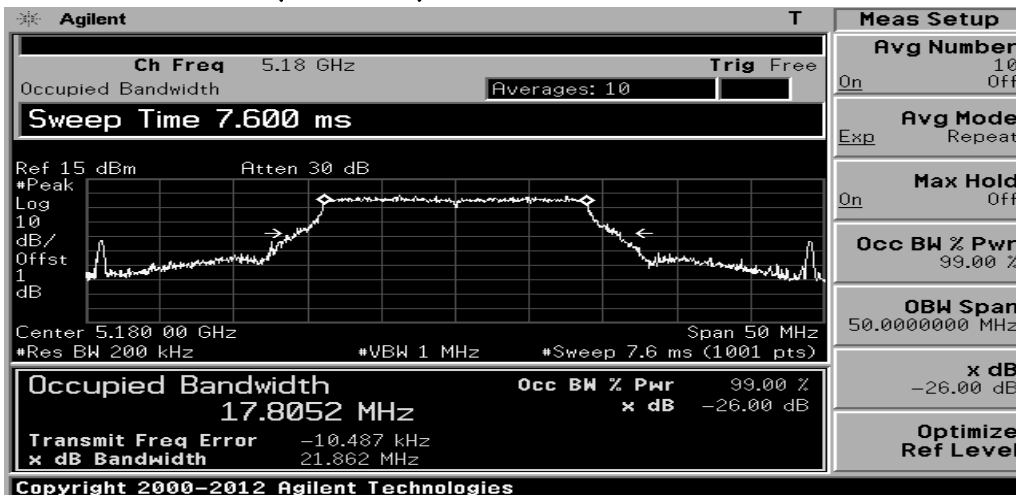
802.11a (U-NII 2A)



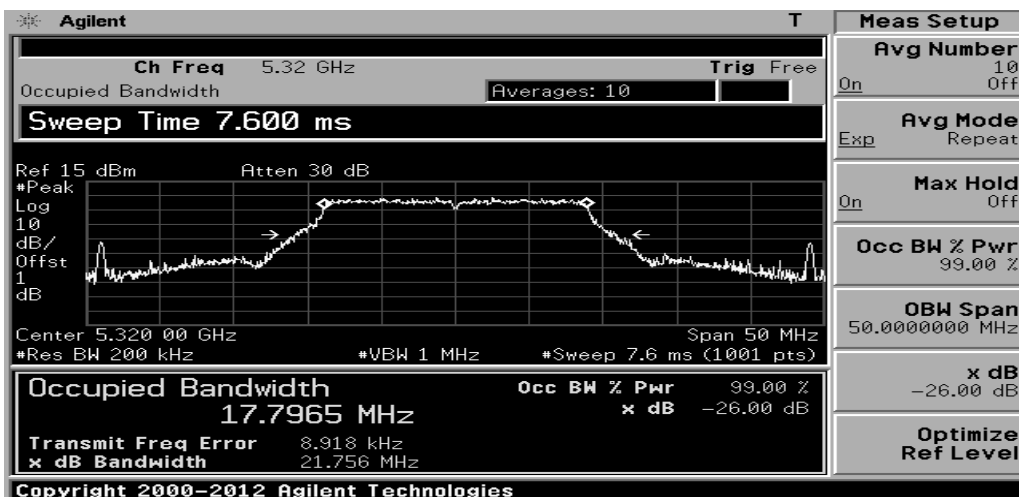
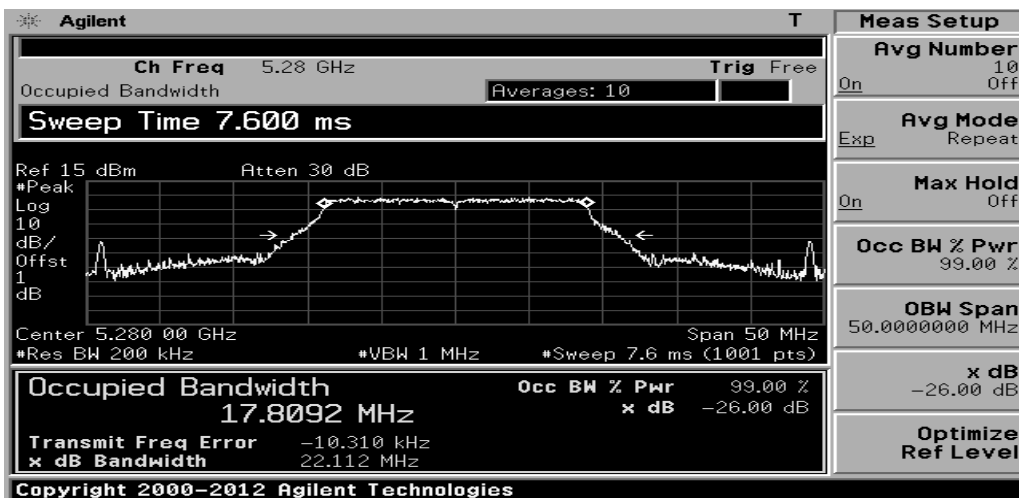
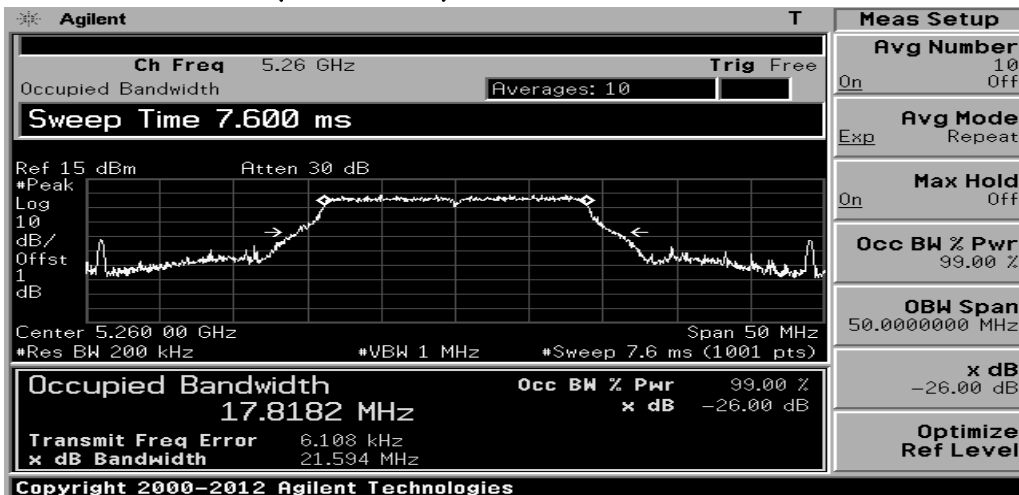
802.11a (U-NII 2C)



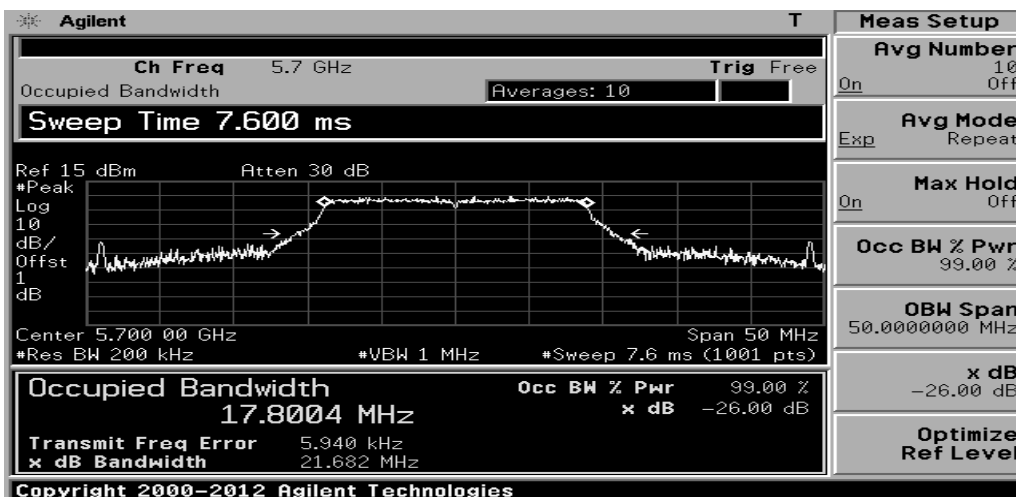
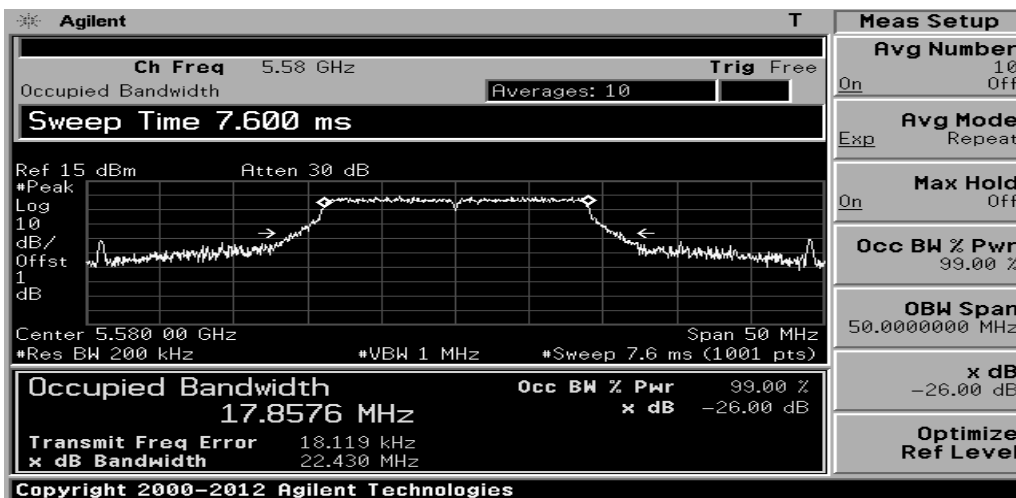
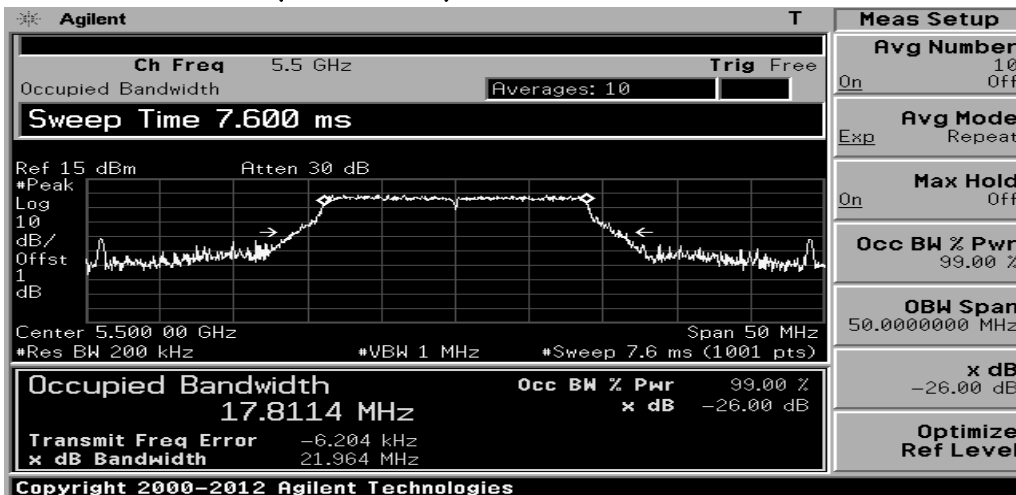
802.11n HT20 (U-NII 1)



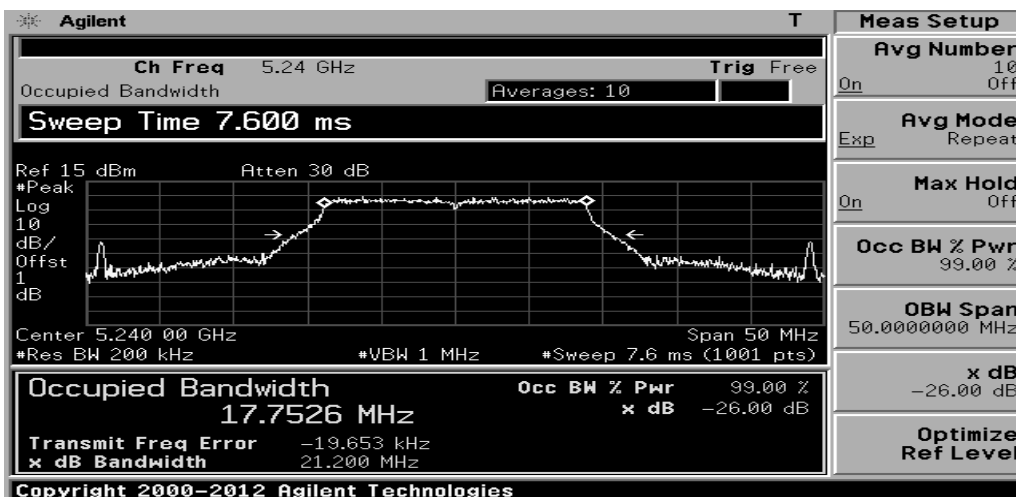
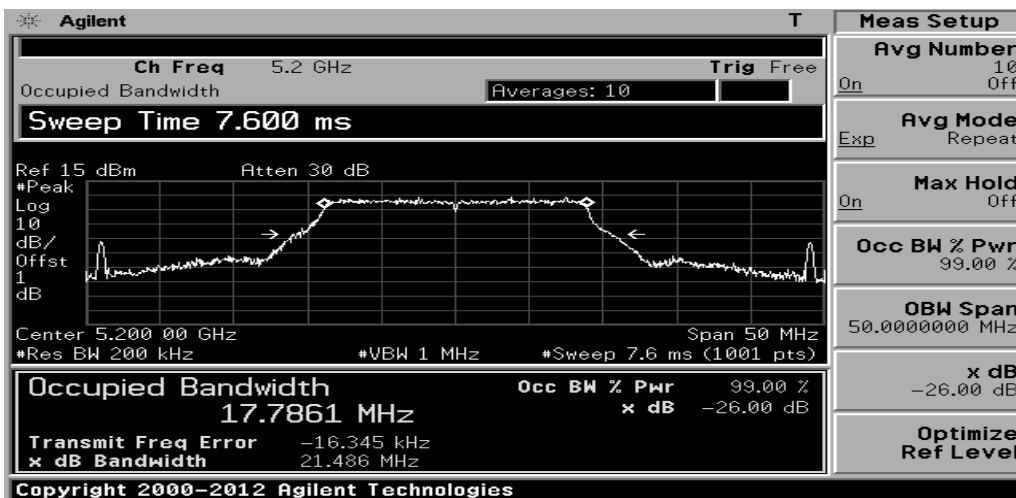
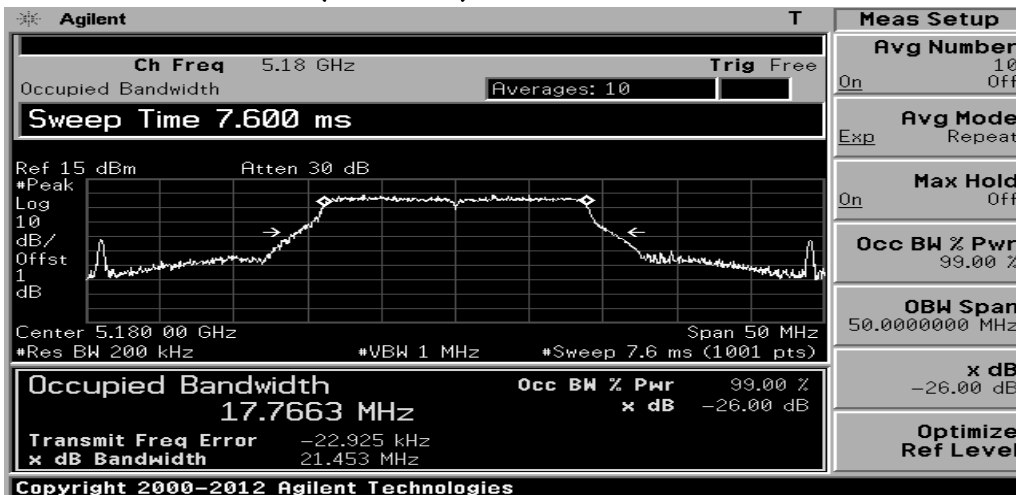
802.11n HT20 (U-NII 2A)



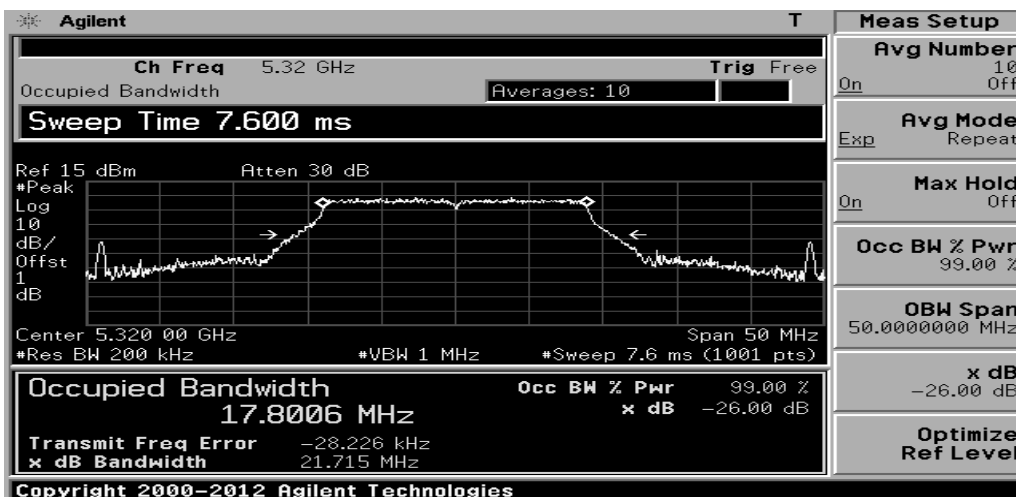
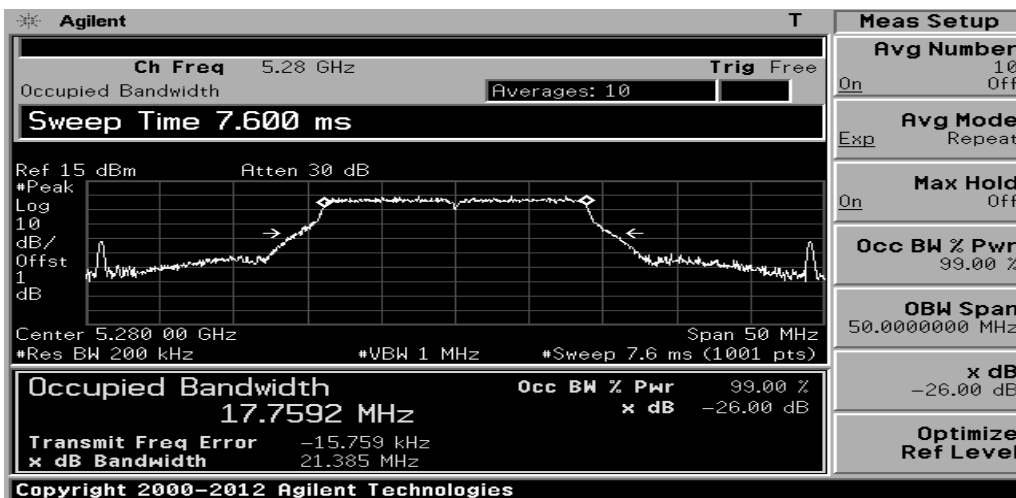
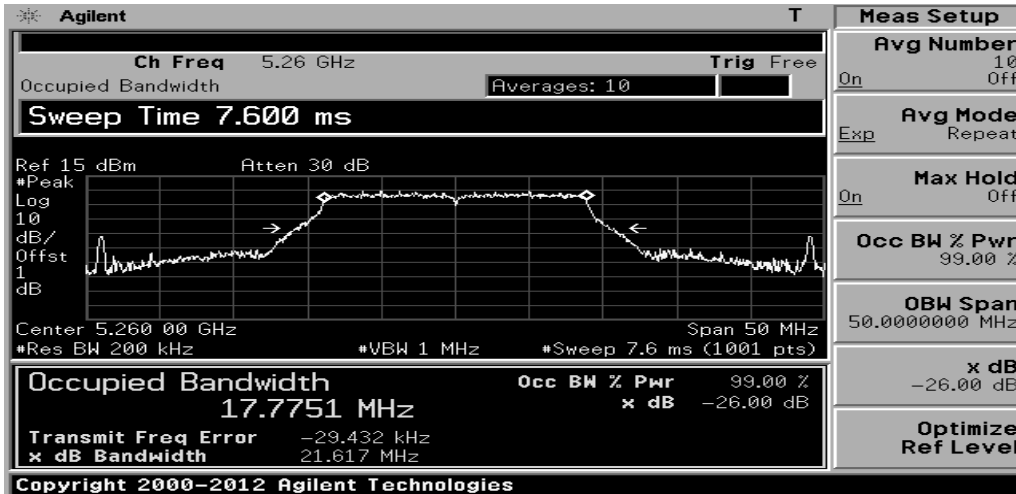
802.11n HT20 (U-NII 2C)



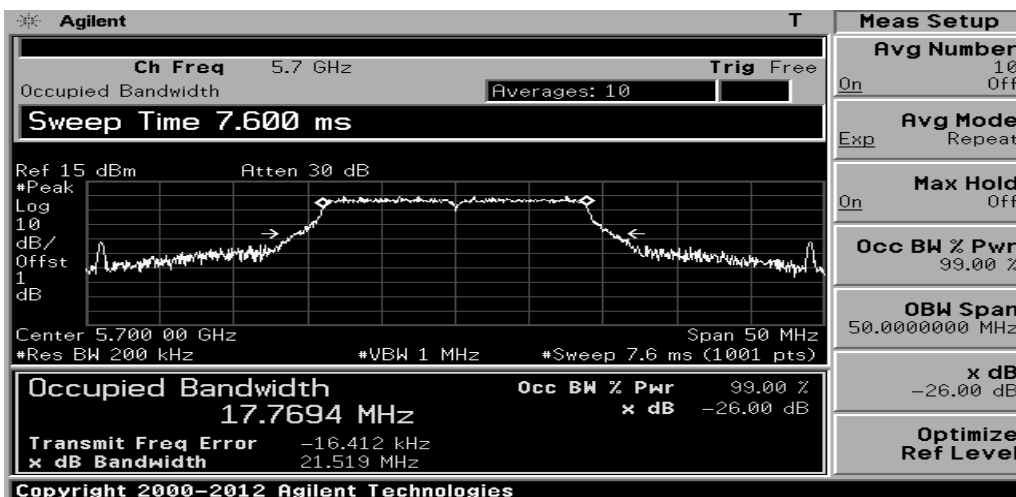
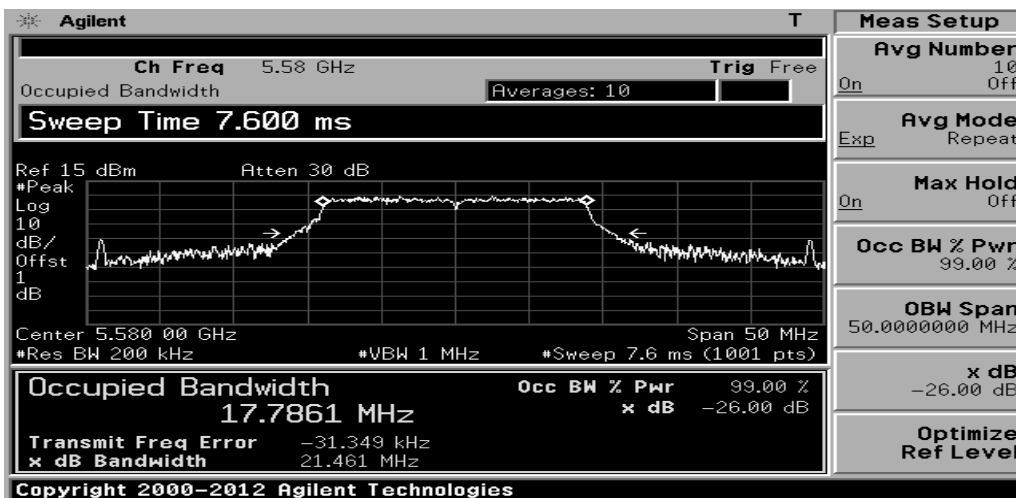
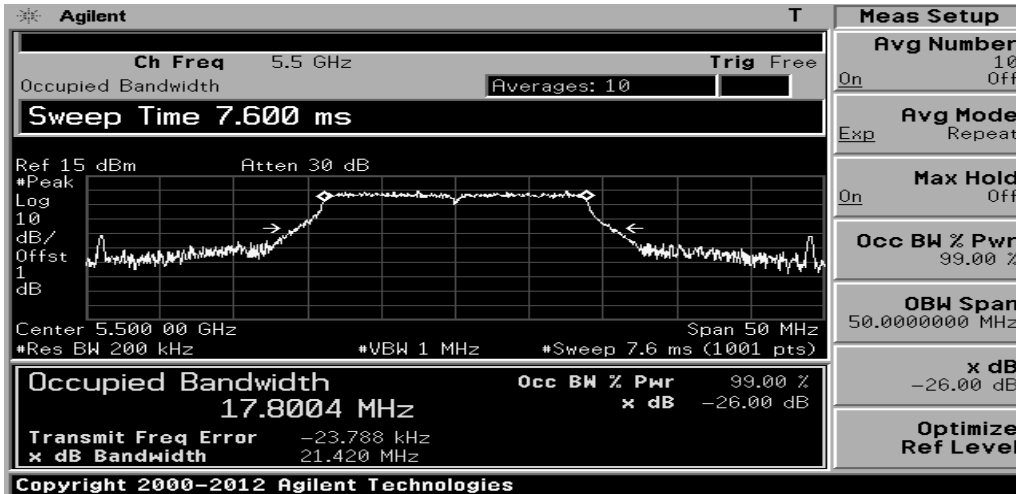
802.11ac VHT20 (U-NII 1)



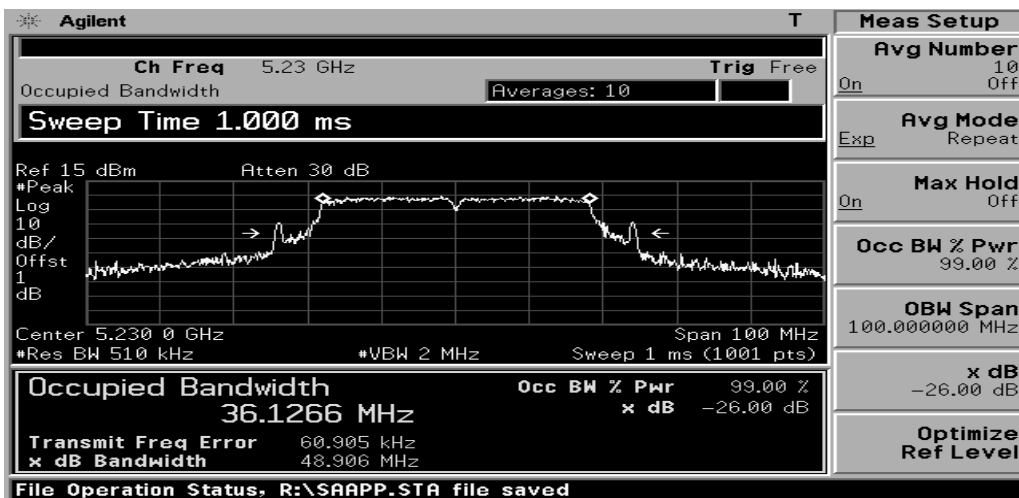
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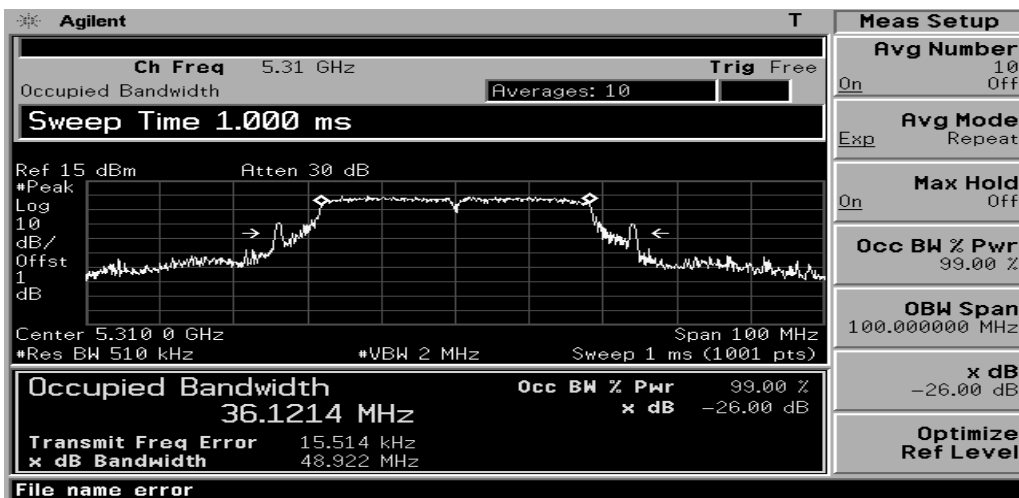
802.11ac VHT20 (U-NII 2C)



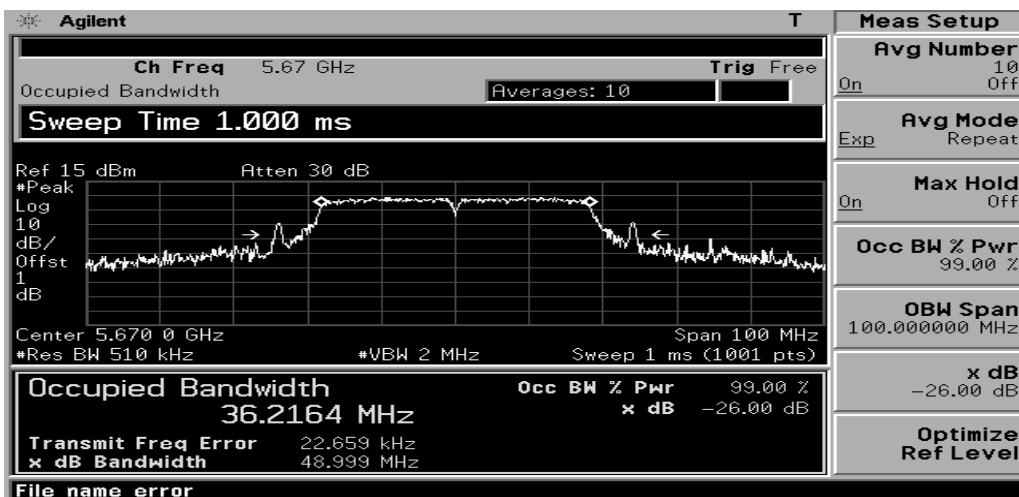
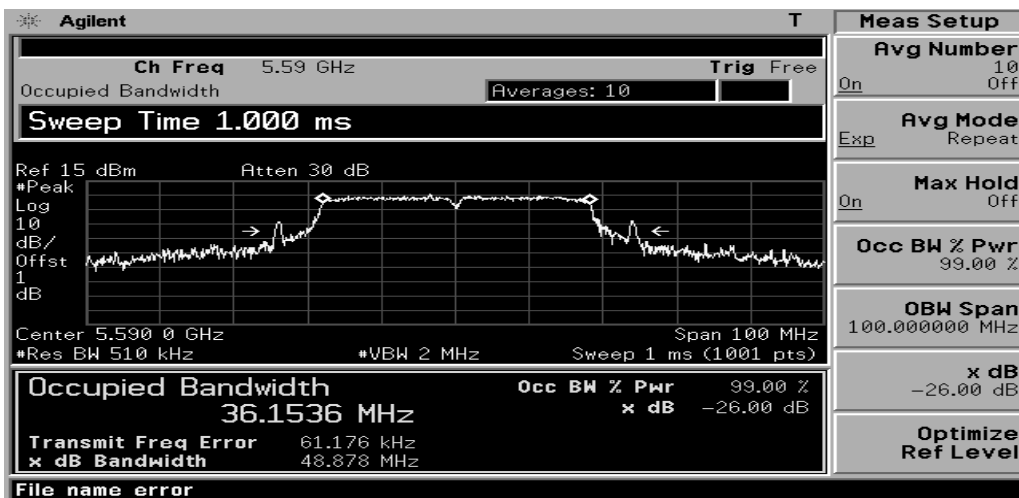
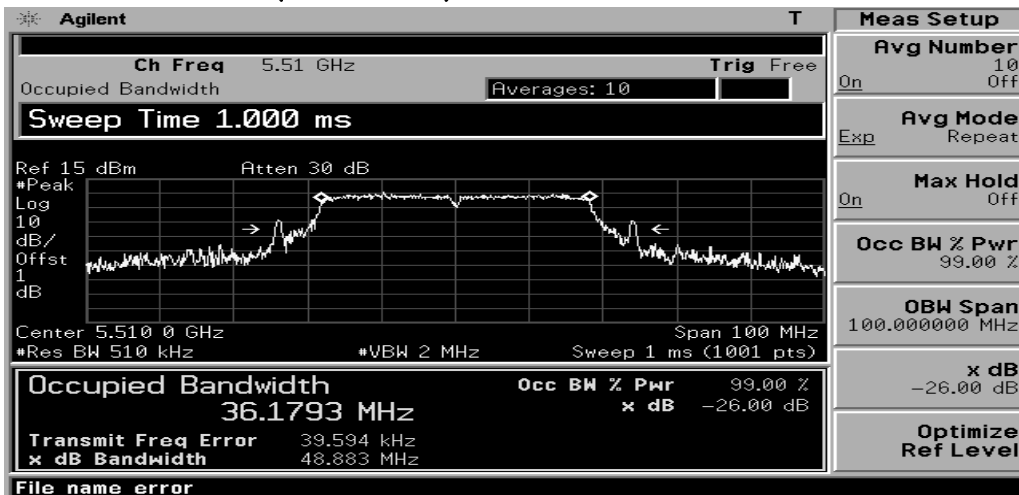
802.11n HT40 (U-NII 1)



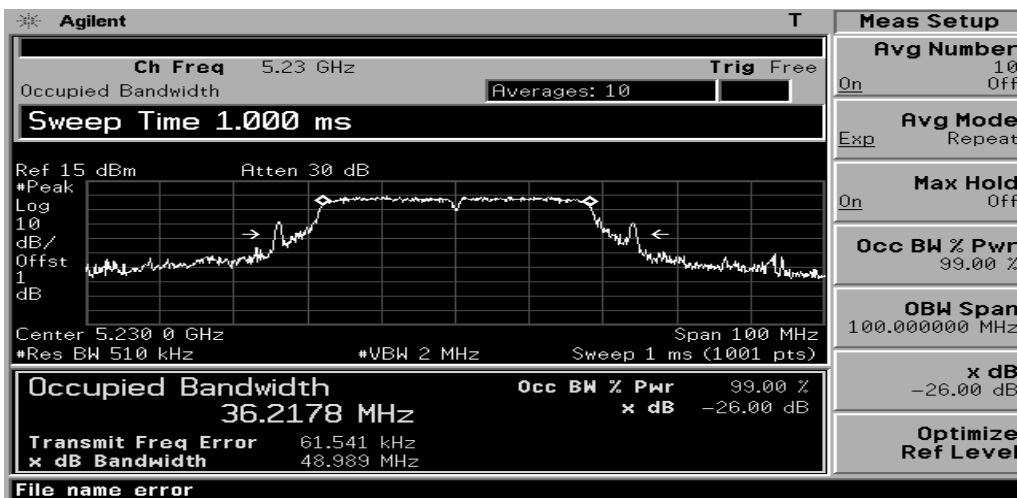
802.11n HT40 (U-NII 2A)



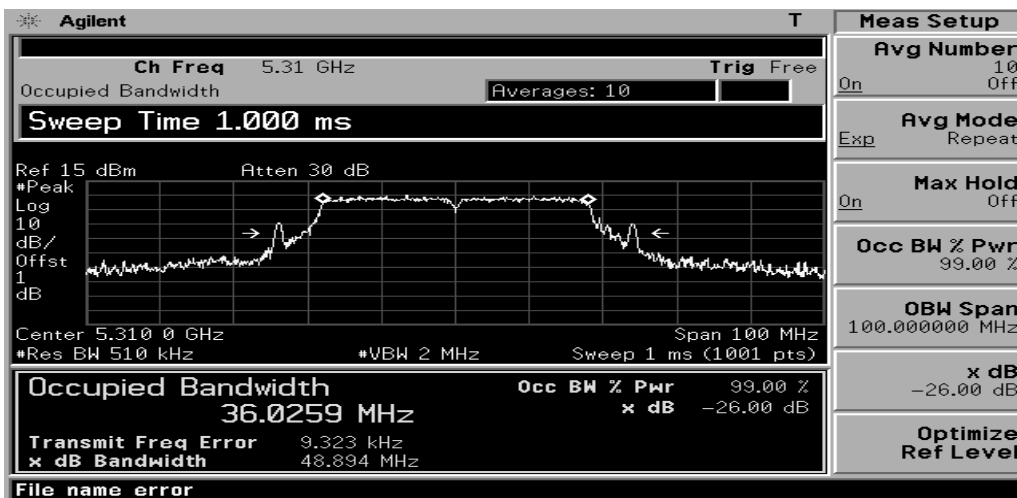
802.11n HT40 (U-NII 2C)



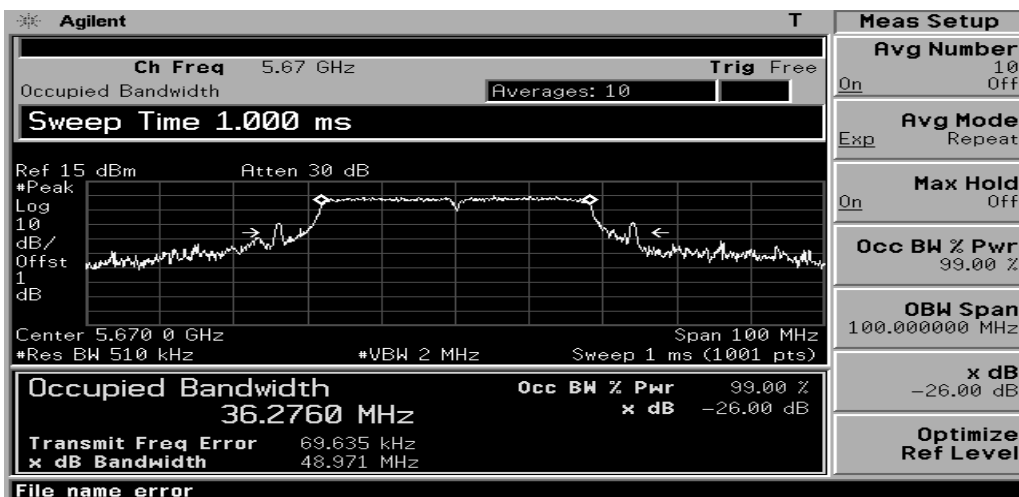
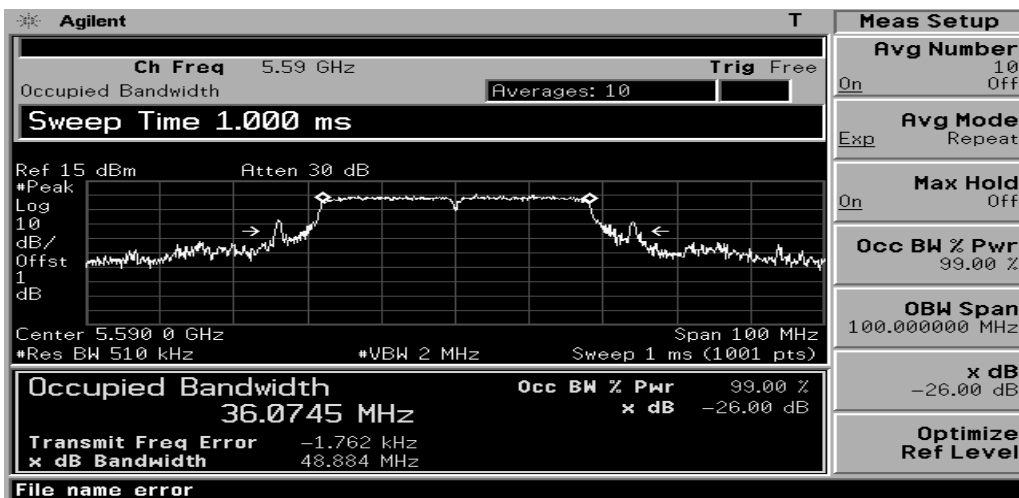
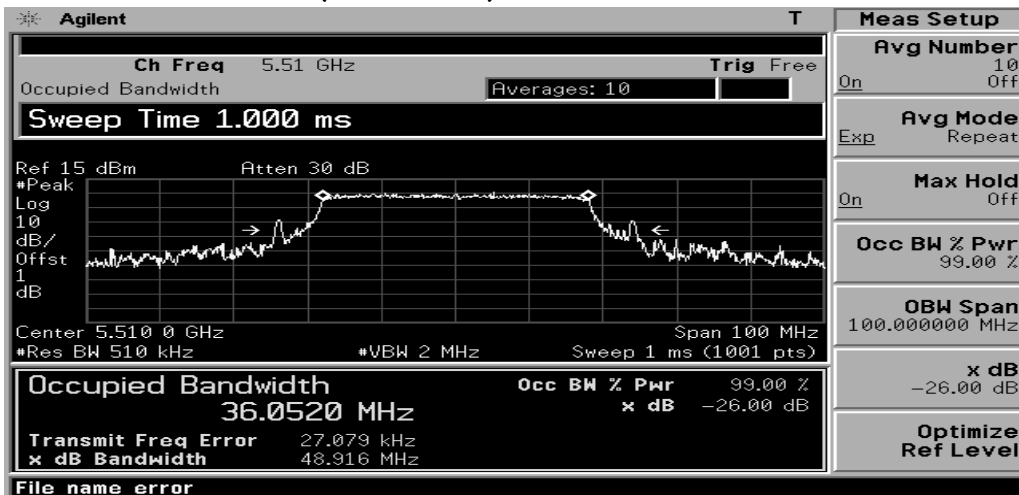
802.11ac VHT40 (U-NII 1)



802.11ac VHT40 (U-NII 2A)



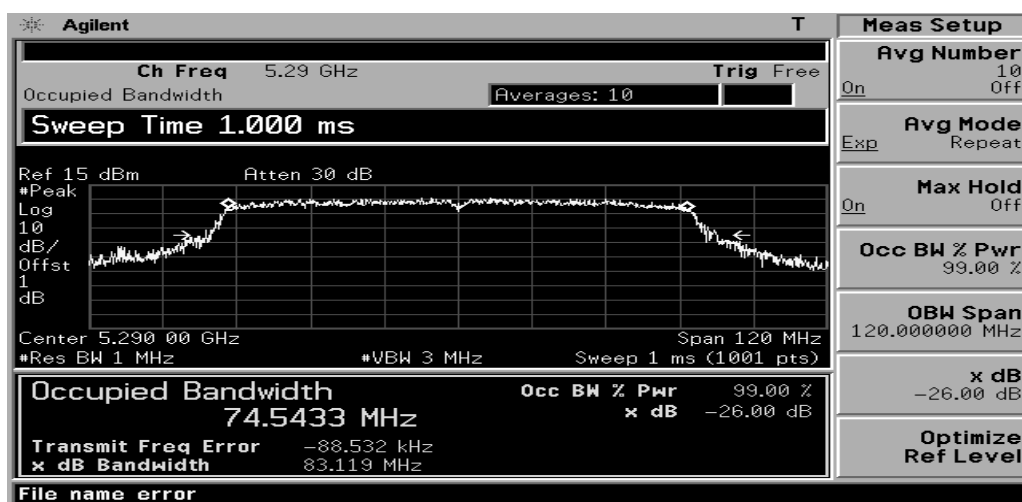
802.11ac VHT40 (U-NII 2C)



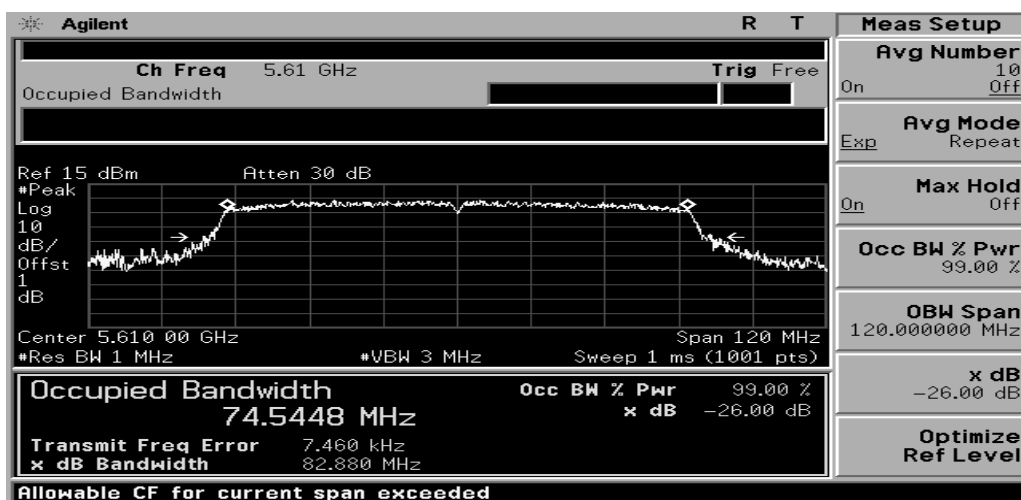
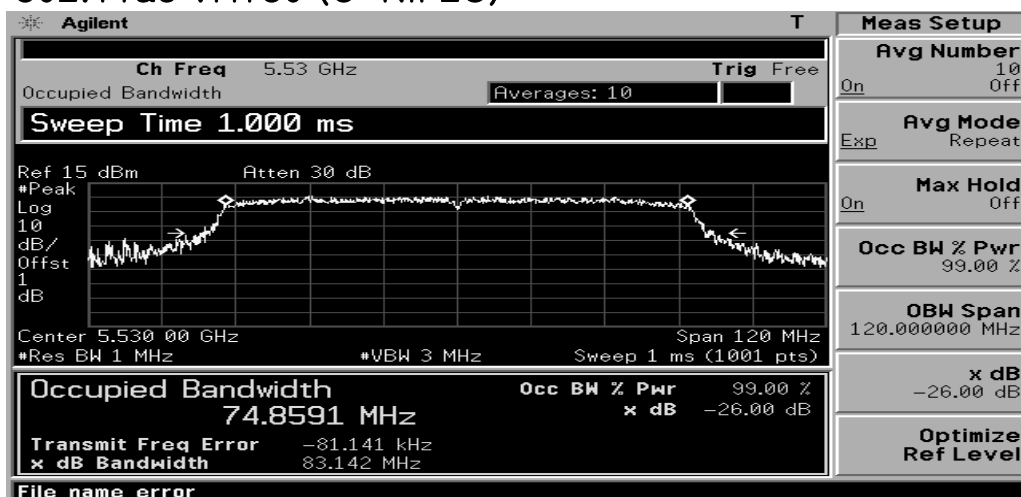
802.11ac VHT80 (U-NII 1)



802.11ac VHT80 (U-NII 2A)



802.11ac VHT80 (U-NII 2C)



6. Minimum Emission Bandwidth (6 dB Bandwidth)

6.1 Test procedure

Acordding to 789033 D02 Meas Guidance

6.2 Test instruments and measurement setup

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 * \text{RBW}$.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) 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 dB relative to the maximum level measured in the fundamental emission.

6dB Bandwidth Test Instruments

Description	Model	Serial Number	Cal. Due Date
Spectrum Analyzer	E4440A	US42041291	2021-12-01
Gignal Analyzer	FSV40	100939	2021-12-01

6.3 Measurement results

MODE – 802.11a

BAND	Channel Frequency (MHz)	Bandwidth at 6dB below(MHz)	Limit (MHz)	PASS/FAIL
U-NII 3	5 745	16.34	0.50	PASS
	5 785	16.57	0.50	PASS
	5 825	16.38	0.50	PASS

MODE – 802.11n (HT20)

BAND	Channel Frequency (MHz)	Bandwidth at 26dB below(MHz)	Limit (MHz)	PASS/FAIL
U-NII 3	5 745	17.54	0.50	PASS
	5 785	17.77	0.50	PASS
	5 825	17.60	0.50	PASS



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MODE – 802.11n (HT40)

BAND	Channel Frequency (MHz)	Bandwidth at 26dB below(MHz)	Limit (MHz)	PASS/FAIL
U-NII 3	5 755	35.04	0.50	PASS
	5 795	35.13	0.50	PASS

MODE – 802.11ac (VHT20)

BAND	Channel Frequency (MHz)	Bandwidth at 26dB below(MHz)	Limit (MHz)	PASS/FAIL
U-NII 3	5 745	17.61	0.50	PASS
	5 785	17.64	0.50	PASS
	5 825	17.57	0.50	PASS

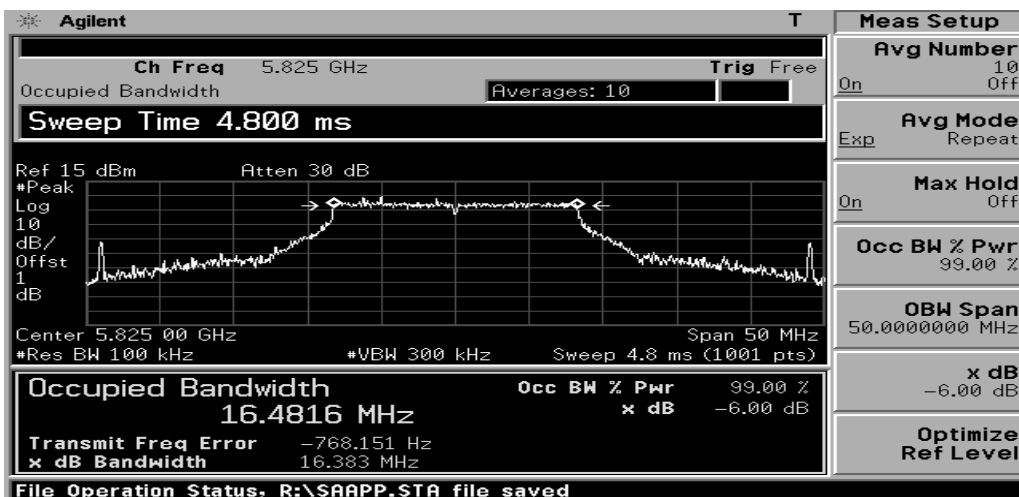
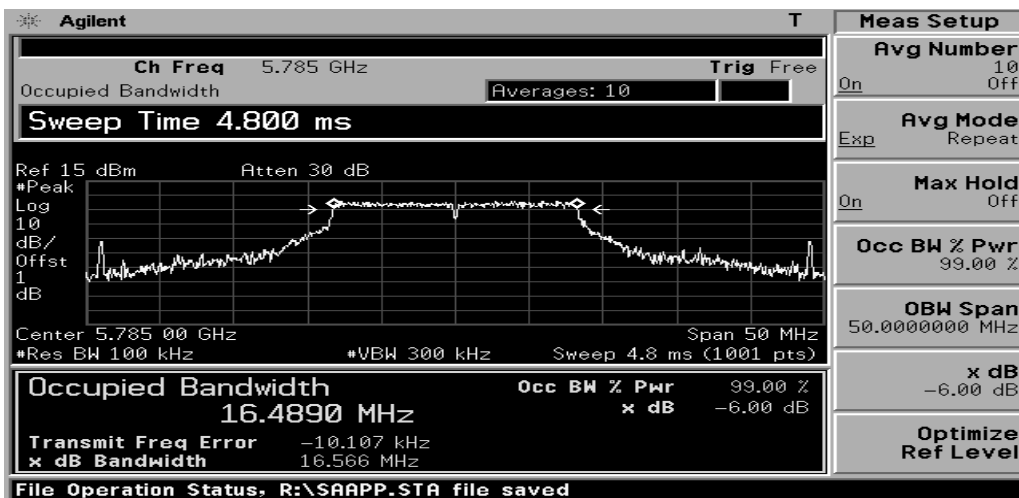
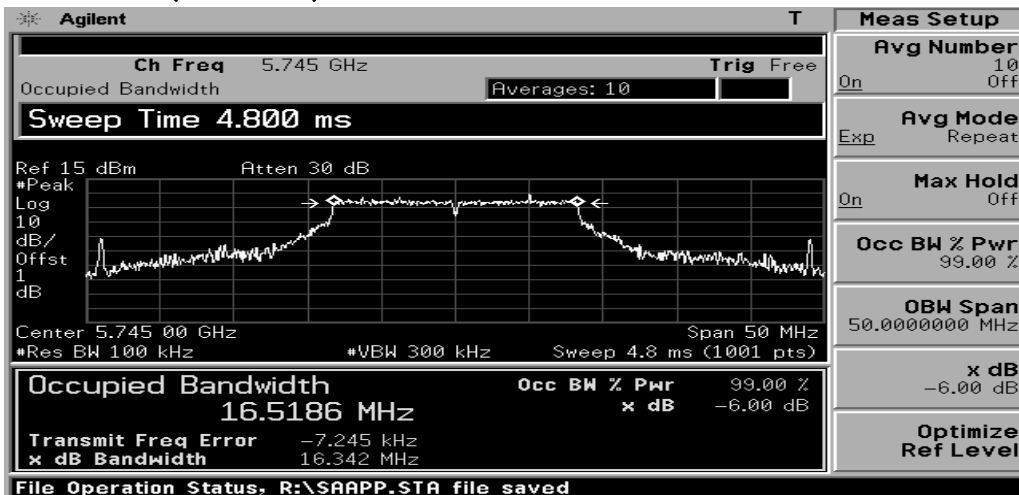
MODE – 802.11ac (VHT40)

BAND	Channel Frequency (MHz)	Bandwidth at 26dB below(MHz)	Limit (MHz)	PASS/FAIL
U-NII 3	5 755	35.37	0.50	PASS
	5 795	34.54	0.50	PASS

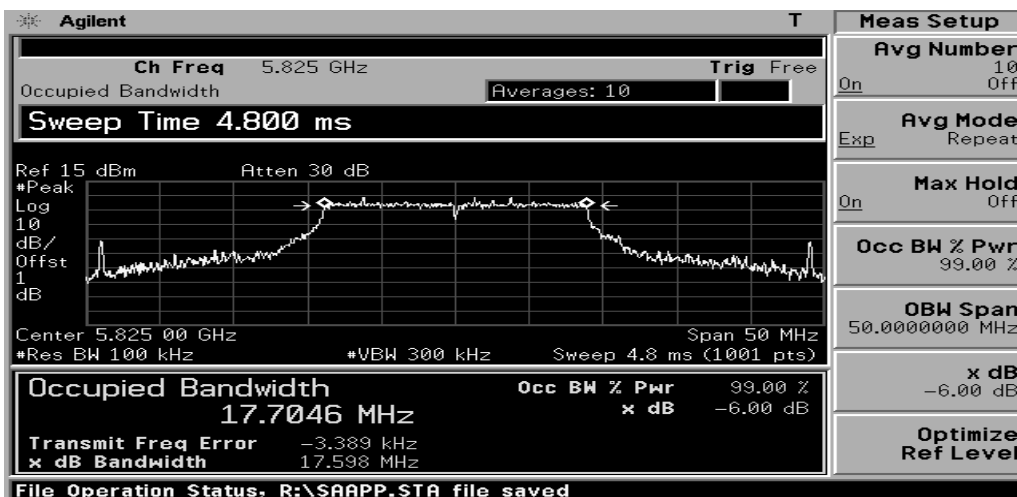
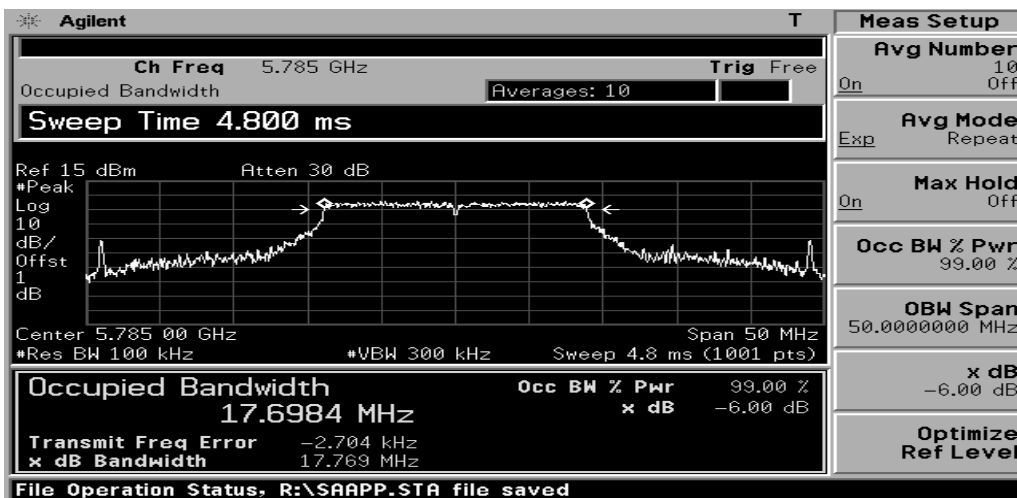
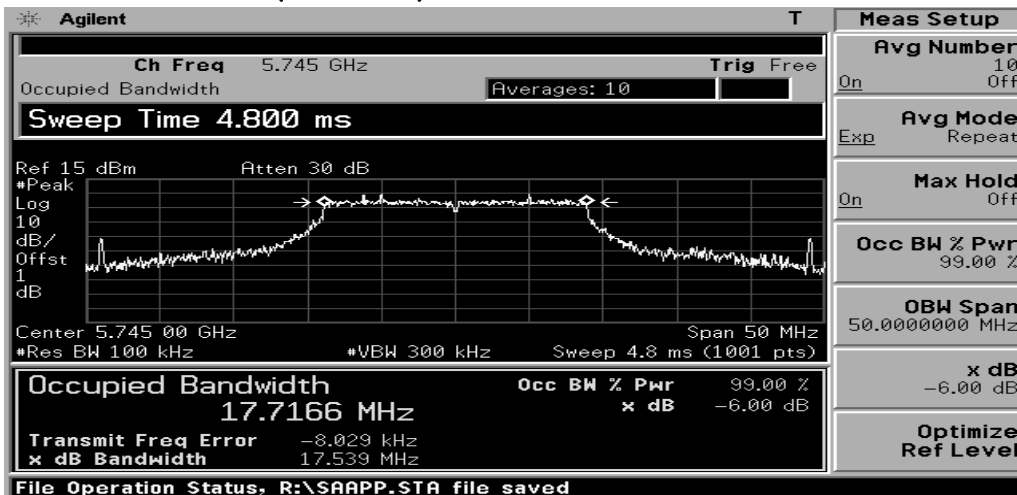
MODE – 802.11ac (VHT80)

BAND	Channel Frequency (MHz)	Bandwidth at 26dB below(MHz)	Limit (MHz)	PASS/FAIL
U-NII 3	5 775	67.57	0.50	PASS

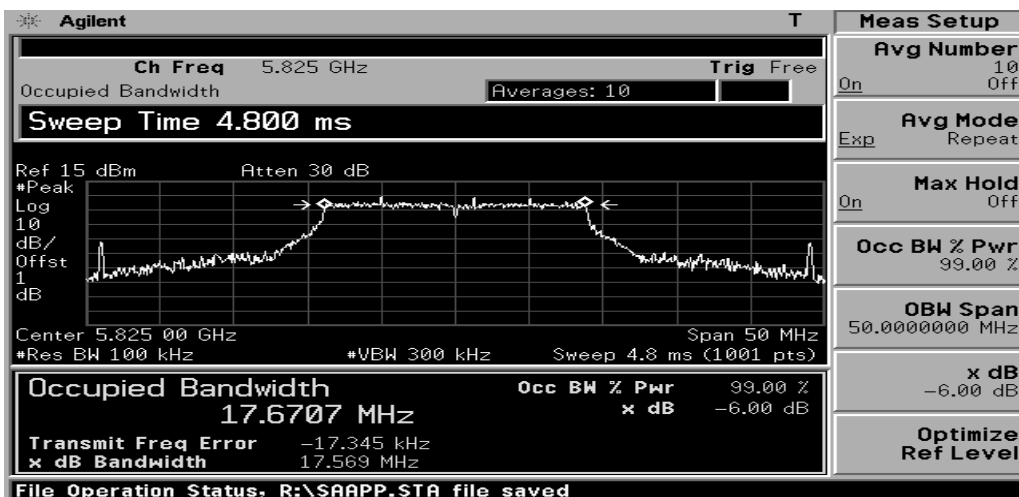
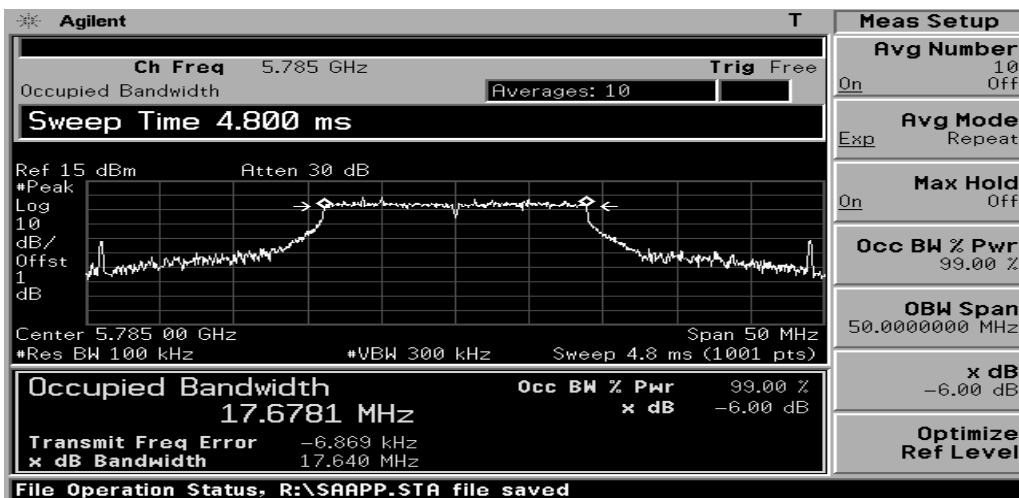
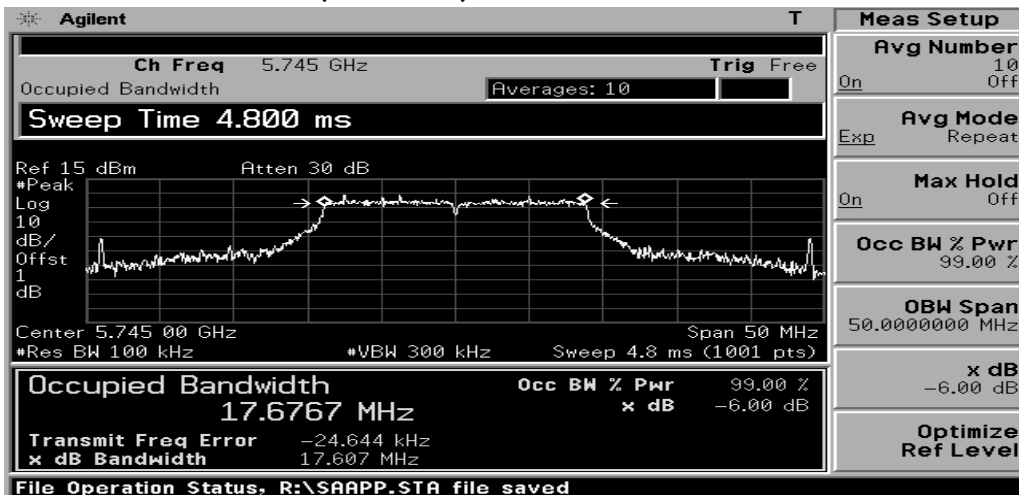
802.11a (U-NII 3)



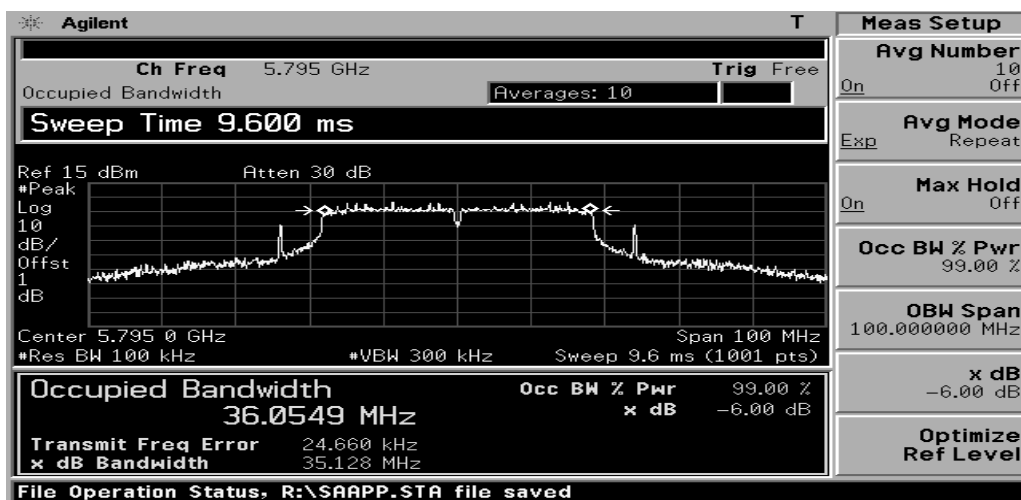
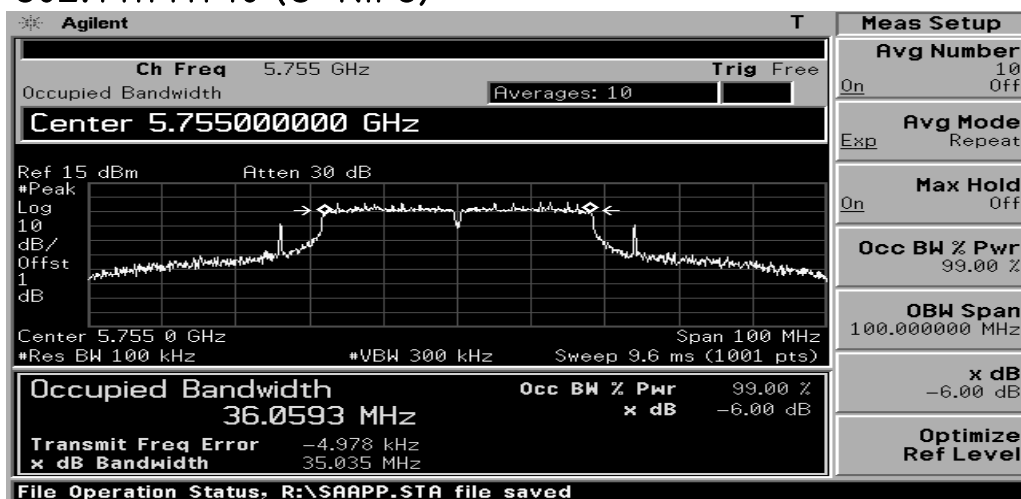
802.11n HT20 (U-NII 3)



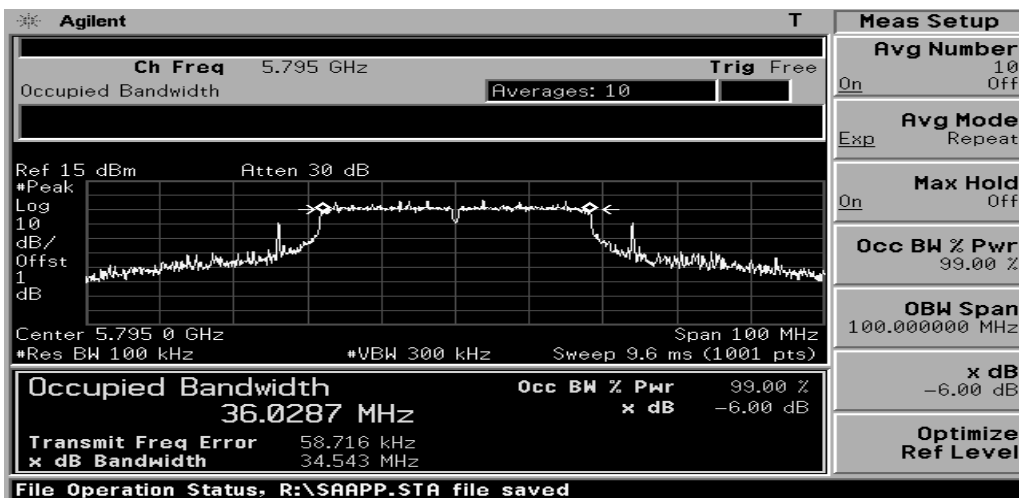
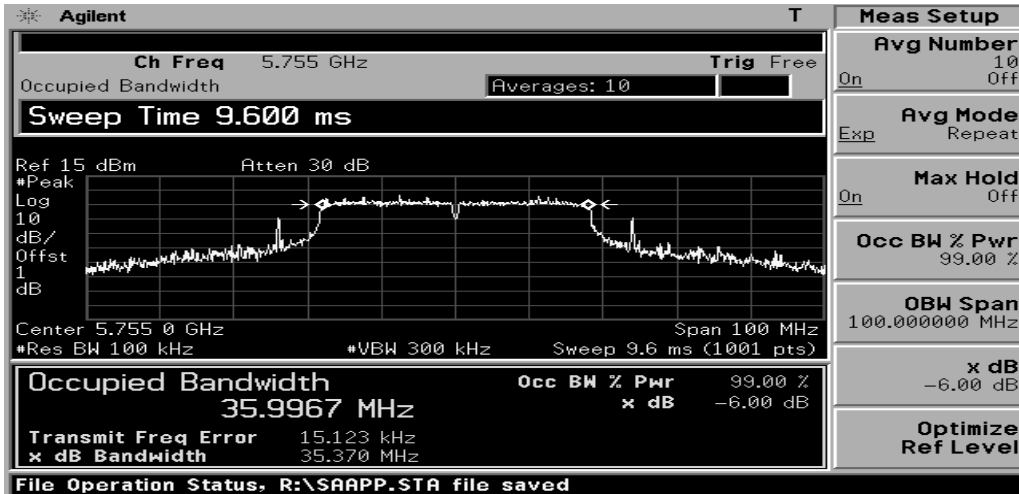
802.11ac VHT20 (U-NII 3)



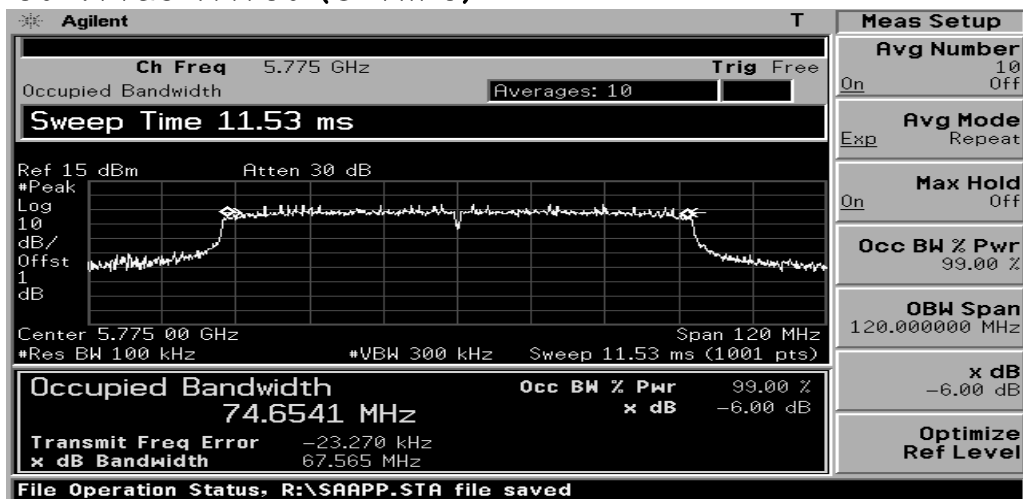
802.11n HT40 (U-NII 3)



802.11ac VHT40 (U-NII 3)



802.11ac VHT80 (U-NII 3)



7. Maximum Conducted Output Power

7.1 Test procedure

Acordding to 789033 D02 Meas Guidance

7.2 Test instruments and measurement setup

a) Method PM (Measurement using an RF average power meter):

(i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:

789033 D02 General UNII Test Procedures New Rules v02r01

Page 9

The EUT is configured to transmit continuously or to transmit with a constant duty cycle.

At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.

The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.

(ii) If the transmitter does not transmit continuously, measure the duty cycle, x , of the transmitter output signal as described in II.B.

(iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.

(iv) Adjust the measurement in dBm by adding $10 \log (1/x)$ where x is the duty cycle (e.g., $10 \log (1/0.25)$ if the duty cycle is 25%)

b) Method PM-G (Measurement using a gated RF average power meter):

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

Operation Band	EUT Category		Limit
U-NN 1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p ≤ 125 mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	√	Mobile and Portable client device	250mW (24 dBm)
U-NII 2A	√		250mW (24 dBm) or $11 \text{ dBm} + 10 \log B^*$
U-NII 2C	√		250mW (24 dBm) or $11 \text{ dBm} + 10 \log B^*$
U-NII 3	√		1 Watt (30 dBm)

Output Power Test Instruments

Description	Model	Serial Number	Cal. Due Date
Power Meter	N1912A	MY45100570	2021-12-02
Power Sensor	N1921A	MY45240427	2021-12-01

7.3 Measurement results

MODE – 802.11a

MODE	Channel frequency (MHz)	Conducted Power Output(dBm)	Limit (dBm)	PASS/FAIL
U-NII 1	5 180	13.67	24.00	PASS
	5 200	13.92	24.00	PASS
	5 240	14.13	24.00	PASS
U-NII 2A	5 260	14.12	24.00	PASS
	5 280	14.18	24.00	PASS
	5 320	14.20	24.00	PASS
U-NII 2C	5 500	13.87	24.00	PASS
	5 580	13.85	24.00	PASS
	5 700	13.86	24.00	PASS
U-NII 3	5 745	14.08	30.00	PASS
	5 785	13.95	30.00	PASS
	5 825	13.91	30.00	PASS

MODE – 802.11n HT20

MODE	Channel frequency (MHz)	Conducted Power Output(dBm)	Limit (dBm)	PASS/FAIL
U-NII 1	5 180	12.98	24.00	PASS
	5 200	12.80	24.00	PASS
	5 240	12.90	24.00	PASS
U-NII 2A	5 260	12.89	24.00	PASS
	5 280	12.86	24.00	PASS
	5 320	12.93	24.00	PASS
U-NII 2C	5 500	11.88	24.00	PASS
	5 580	11.89	24.00	PASS
	5 700	11.92	24.00	PASS
U-NII 3	5 745	11.90	30.00	PASS
	5 785	11.85	30.00	PASS
	5 825	11.84	30.00	PASS

MODE – 802.11ac VHT20

MODE	Channel frequency (MHz)	Conducted Power Output(dBm)	Limit (dBm)	PASS/FAIL
U-NII 1	5 180	11.98	24.00	PASS
	5 200	11.92	24.00	PASS
	5 240	11.90	24.00	PASS
U-NII 2A	5 260	11.87	24.00	PASS
	5 280	11.86	24.00	PASS
	5 320	11.82	24.00	PASS
U-NII 2C	5 500	11.92	24.00	PASS
	5 580	11.95	24.00	PASS
	5 700	11.92	24.00	PASS
U-NII 3	5 745	11.98	30.00	PASS
	5 785	11.92	30.00	PASS
	5 825	11.91	30.00	PASS

MODE – 802.11n HT40

MODE	Channel frequency (MHz)	Conducted Power Output(dBm)	Limit (dBm)	PASS/FAIL
U-NII 1	5 190	11.90	24.00	PASS
	5 230	11.89	24.00	PASS
U-NII 2A	5 270	11.87	24.00	PASS
	5 310	11.93	24.00	PASS
U-NII 2C	5 510	11.95	24.00	PASS
	5 590	11.97	24.00	PASS
	5 670	11.89	24.00	PASS
U-NII 3	5 755	11.92	30.00	PASS
	5 795	11.90	30.00	PASS

MODE – 802.11ac VHT40

MODE	Channel frequency (MHz)	Conducted Power Output(dBm)	Limit (dBm)	PASS/FAIL
U-NII 1	5 190	11.88	24.00	PASS
	5 230	11.98	24.00	PASS
U-NII 2A	5 270	11.92	24.00	PASS
	5 310	11.91	24.00	PASS
U-NII 2C	5 510	11.83	24.00	PASS
	5 590	11.84	24.00	PASS
	5 670	11.88	24.00	PASS
U-NII 3	5 755	11.87	24.00	PASS
	5 795	11.93	24.00	PASS

MODE – 802.11ac VHT80

MODE	Channel frequency (MHz)	Conducted Power Output(dBm)	Limit (dBm)	PASS/FAIL
U-NII 1	5 210	11.92	24.00	PASS
U-NII 2A	5 290	11.97	24.00	PASS
U-NII 2C	5 530	11.89	24.00	PASS
	5 610	11.91	24.00	PASS
U-NII 3	5 775	11.90	24.00	PASS

8. Maximum power spectral density

8.1 Test procedure

Acordding to 789033 D02 Meas Guidance

9.2 Test instruments and measurement setup

F. Maximum Power Spectral Density (PSD)

The rules requires “maximum power spectral density” measurements where the intent is to measure the maximum value of the time average of the power spectral density measured during a period of continuous transmission. Refer to III.A for additional guidance for devices that use channel aggregation.

1. Create an average power spectrum for the EUT operating mode being tested by following the instructions in II.E.2. for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, “Compute power...” (This procedure is required even if the maximum conducted output power measurement was performed using a power meter, method PM.)
2. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
3. Make the following adjustments to the peak value of the spectrum, if applicable:
 - a) If Method SA-2 or SA-2 Alternative was used, add $10 \log (1/x)$, where x is the duty cycle, to the peak of the spectrum.
 - b) If Method SA-3 Alternative was used and the linear mode was used in II.E.2.g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging.
4. The result is the Maximum PSD over 1 MHz reference bandwidth.
5. For devices operating in the bands 5.15–5.25 GHz, 5.25–5.35 GHz, and 5.47–5.725 GHz, the preceding procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in Section 15.407(a)(5). For devices operating in the band 5.725–5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 kHz bandwidth, the following adjustments to the procedures apply:
 - a) Set $RBW \geq 1/T$, where T is defined in II.B.I.a).
 - b) Set $VBW \geq 3$ RBW.
 - c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10 \log (500 \text{ kHz}/RBW)$ to the measured result, whereas $RBW (< 500 \text{ kHz})$ is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
 - d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10 \log (1\text{MHz}/RBW)$ to the measured result, whereas $RBW (< 1 \text{ MHz})$ is the reduced resolution bandwidth of spectrum analyzer set during measurement.
 - e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 kHz for the II.F.5.c) and II.F.5.d), since $RBW=100 \text{ kHz}$ is available on nearly all spectrum analyzers.

Operation Band	EUT Category		Limit
U-NN 1		Outdoor Access Point	17 dBm/ MHz
		Fixed point-to-point Access Point	
		Indoor Access Point	
	√	Mobile and Portable client device	11 dBm/ MHz
U-NII 2A	√		11 dBm/ MHz
U-NII 2C	√		11 dBm/ MHz
U-NII 3	√		30 dBm/500 kHz

Output Power Test Instruments

Description	Model	Serial Number	Cal. Due Date
Spectrum Analyzer	E4440A	US42041291	2021-12-01
Signal Analyzer	FSV40	100939	2021-12-01

8.3 Measurement results

MODE – 802.11a

MODE	Channel frequency (MHz)	PSD w/o Factor (dBm/ MHz)	Factor	Total PSD (dBm/ MHz)	Limit (dBm/ MHz)	PASS/FAIL
U-NII 1	5 180	2.10	0.74	2.84	17.00	PASS
	5 200	1.24	0.74	1.98	17.00	PASS
	5 240	2.78	0.74	3.52	17.00	PASS
U-NII 2A	5 260	3.42	0.74	4.16	11.00	PASS
	5 280	2.54	0.74	3.28	11.00	PASS
	5 320	2.26	0.74	3.00	11.00	PASS
U-NII 2C	5 500	3.51	0.74	4.25	11.00	PASS
	5 580	3.51	0.74	4.25	11.00	PASS
	5 700	4.68	0.74	5.42	11.00	PASS
U-NII 3	5 745	3.70	0.74	4.44	33.01	PASS
	5 785	3.69	0.74	4.43	33.01	PASS
	5 825	3.56	0.74	4.30	33.01	PASS

MODE – 802.11n HT20

MODE	Channel frequency (MHz)	PSD w/o Factor (dBm/ MHz)	Factor	Total PSD (dBm/ MHz)	Limit (dBm)	PASS/FAIL
U-NII 1	5 180	1.96	0.74	2.70	17.00	PASS
	5 200	1.90	0.74	2.65	17.00	PASS
	5 240	2.14	0.74	2.88	17.00	PASS
U-NII 2A	5 260	2.22	0.74	2.96	11.00	PASS
	5 280	2.95	0.74	3.69	11.00	PASS
	5 320	1.60	0.74	2.34	11.00	PASS
U-NII 2C	5 500	3.24	0.74	3.98	11.00	PASS
	5 580	3.04	0.74	3.78	11.00	PASS
	5 700	3.58	0.74	4.33	11.00	PASS
U-NII 3	5 745	3.65	0.74	4.39	33.01	PASS
	5 785	3.26	0.74	4.01	33.01	PASS
	5 825	3.51	0.74	4.25	33.01	PASS

MODE – 802.11ac VHT20

MODE	Channel frequency (MHz)	PSD w/o Factor (dBm/ MHz)	Factor	Total PSD (dBm/ MHz)	Limit (dBm)	PASS/FAIL
U-NII 1	5 180	2.95	0.78	3.73	17.00	PASS
	5 200	2.64	0.78	3.43	17.00	PASS
	5 240	3.06	0.78	3.84	17.00	PASS
U-NII 2A	5 260	3.18	0.78	3.96	11.00	PASS
	5 280	3.24	0.78	4.02	11.00	PASS
	5 320	2.95	0.78	3.73	11.00	PASS
U-NII 2C	5 500	3.56	0.78	4.34	11.00	PASS
	5 580	3.68	0.78	4.46	11.00	PASS
	5 700	3.75	0.78	4.53	11.00	PASS
U-NII 3	5 745	3.64	0.78	4.42	33.01	PASS
	5 785	3.75	0.78	4.53	33.01	PASS
	5 825	3.79	0.78	4.57	33.01	PASS

MODE – 802.11n HT40

MODE	Channel frequency (MHz)	PSD w/o Factor (dBm/ MHz)	Factor	Total PSD (dBm/ MHz)	Limit (dBm)	PASS/FAIL
U-NII 1	5 190	-0.09	1.47	1.38	17.00	PASS
	5 230	-0.34	1.47	1.13	17.00	PASS
U-NII 2A	5 270	-0.11	1.47	1.36	11.00	PASS
	5 310	-0.39	1.47	1.08	11.00	PASS
U-NII 2C	5 510	0.04	1.47	1.51	11.00	PASS
	5 590	-0.41	1.47	1.06	11.00	PASS
	5 670	-0.85	1.47	0.61	11.00	PASS
U-NII 3	5 755	0.18	1.47	1.65	33.01	PASS
	5 795	0.56	1.47	2.03	33.01	PASS

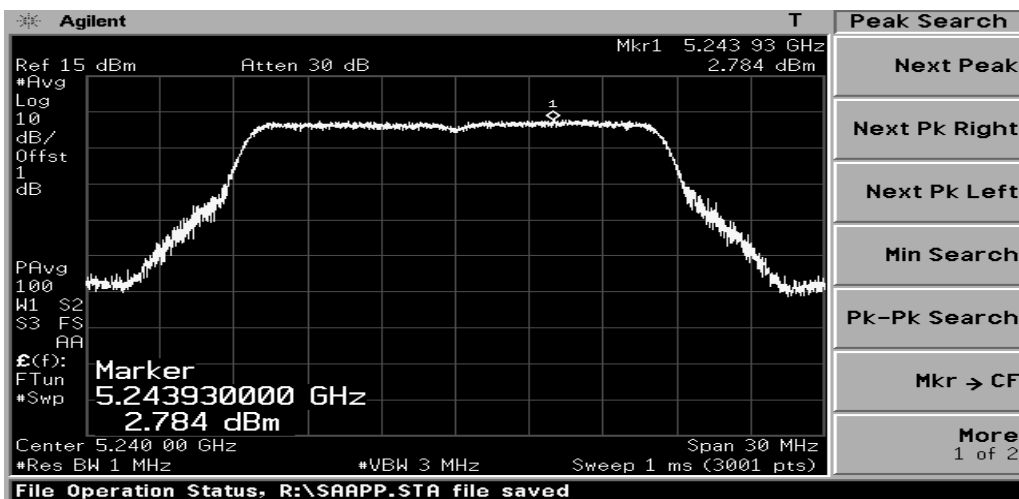
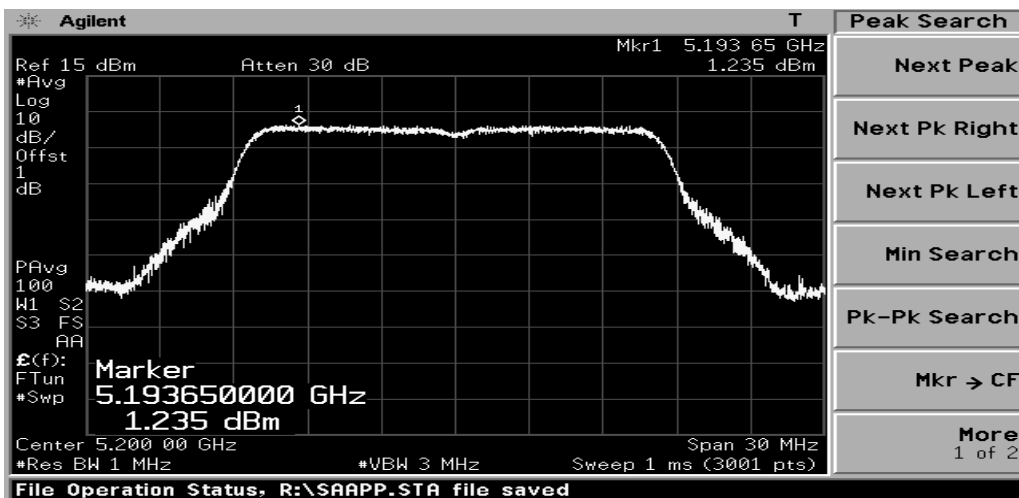
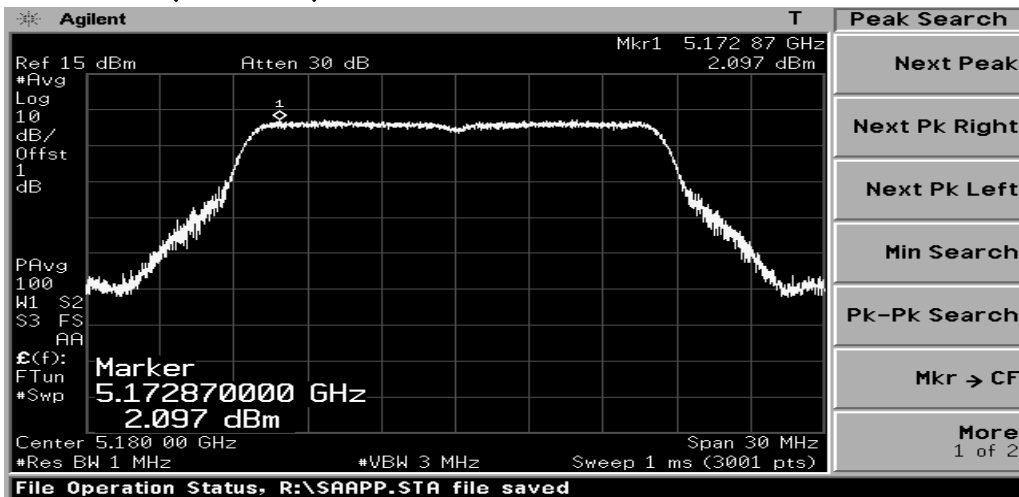
MODE – 802.11ac VHT40

MODE	Channel frequency (MHz)	PSD w/o Factor (dBm/ MHz)	Factor	Total PSD (dBm/ MHz)	Limit (dBm)	PASS/FAIL
U-NII 1	5 190	-0.55	1.46	0.90	17.00	PASS
	5 230	-0.09	1.46	1.37	17.00	PASS
U-NII 2A	5 270	-0.42	1.46	1.03	11.00	PASS
	5 310	-0.34	1.46	1.12	11.00	PASS
U-NII 2C	5 510	0.52	1.46	1.97	11.00	PASS
	5 590	-0.55	1.46	0.91	11.00	PASS
	5 670	-0.85	1.46	0.60	11.00	PASS
U-NII 3	5 755	0.49	1.46	1.95	33.01	PASS
	5 795	0.18	1.46	1.64	33.01	PASS

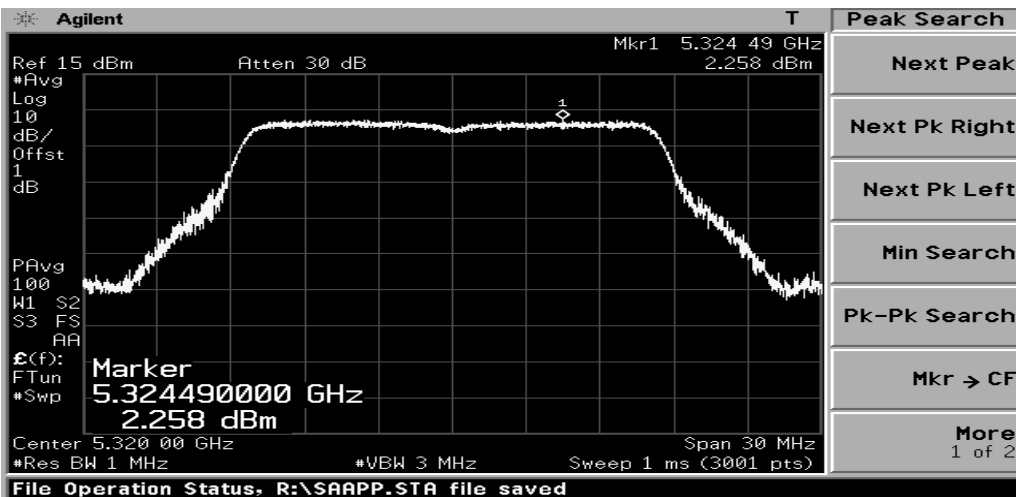
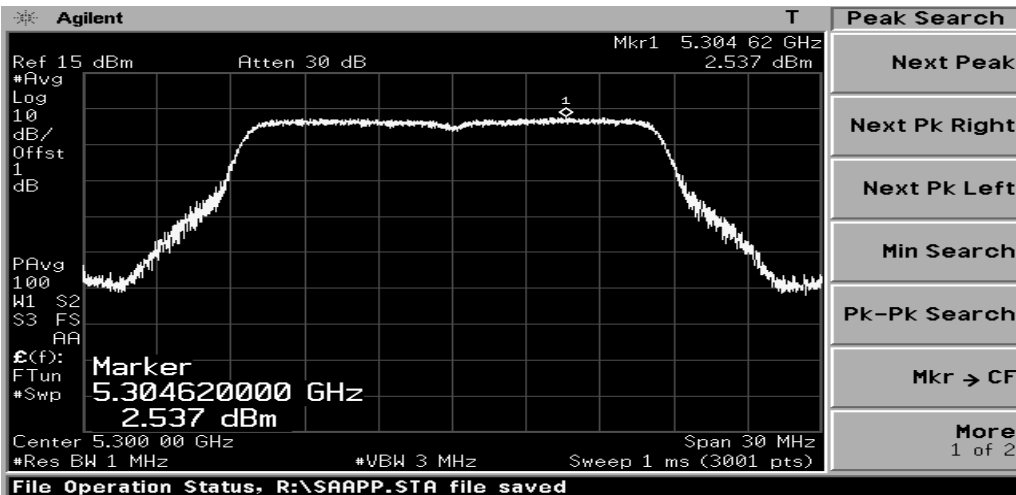
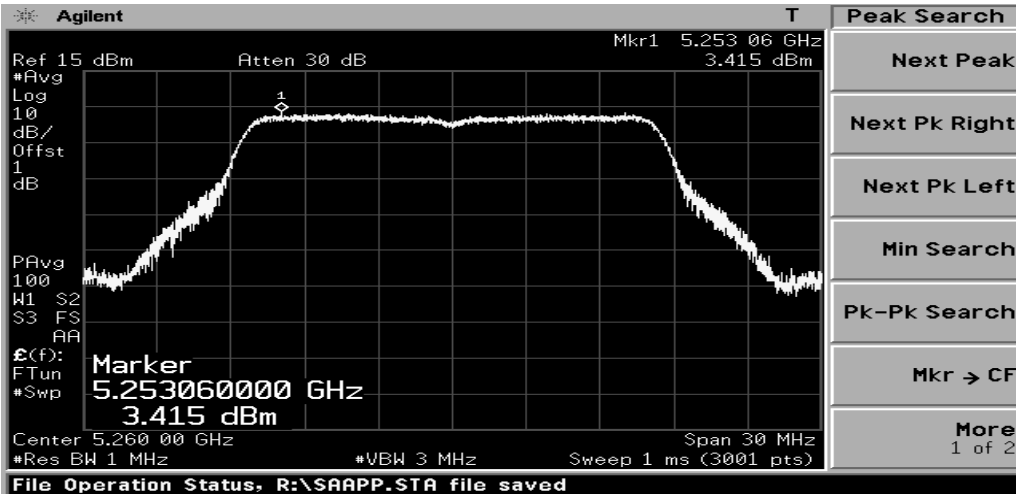
MODE – 802.11ac VHT80

MODE	Channel requency (MHz)	PSD w/o Factor (dBm/ MHz)	Factor	Total PSD (dBm/ MHz)	Limt (dBm)	PASS/FAIL
U-NII 1	5 210	–4.65	0.8	–3.86	17.00	PASS
U-NII 2A	5 290	–3.17	0.8	–2.38	11.00	PASS
U-NII 2C	5 530	–3.98	0.8	–3.19	11.00	PASS
	5 610	–5.57	0.8	–4.77	11.00	PASS
U-NII 3	5 775	–5.61	0.8	–4.81	33.01	PASS

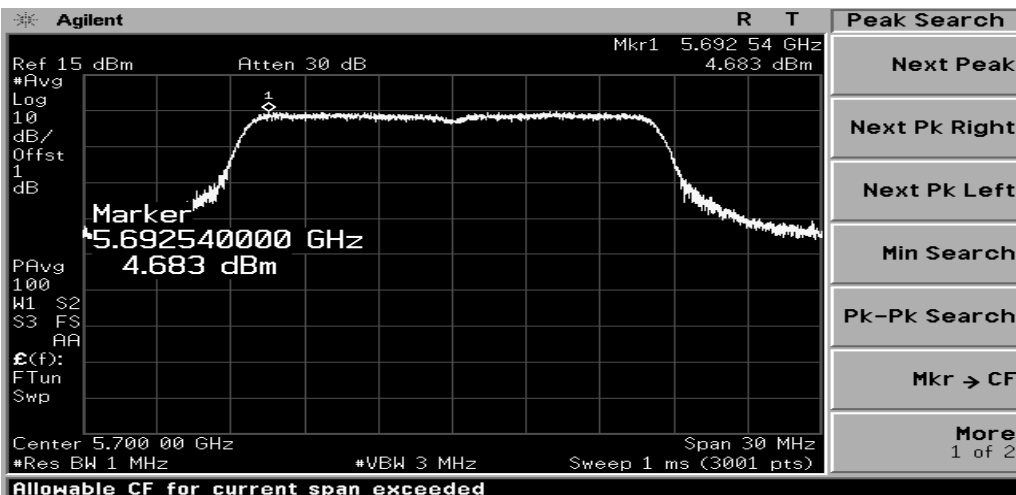
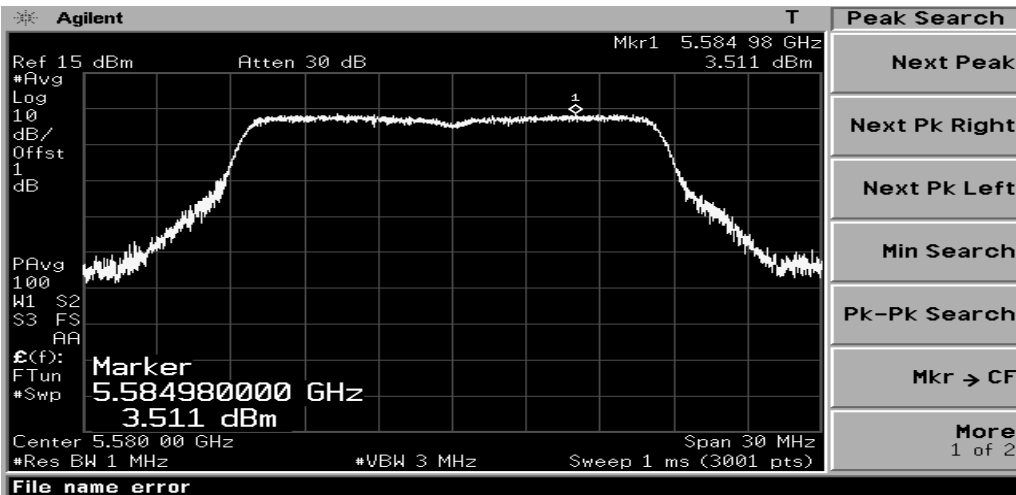
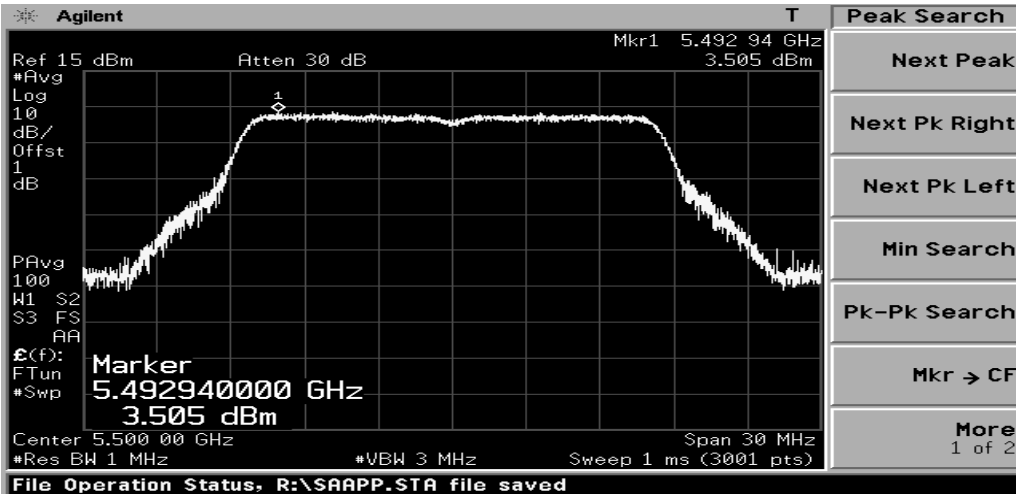
802.11a (U-NII 1)



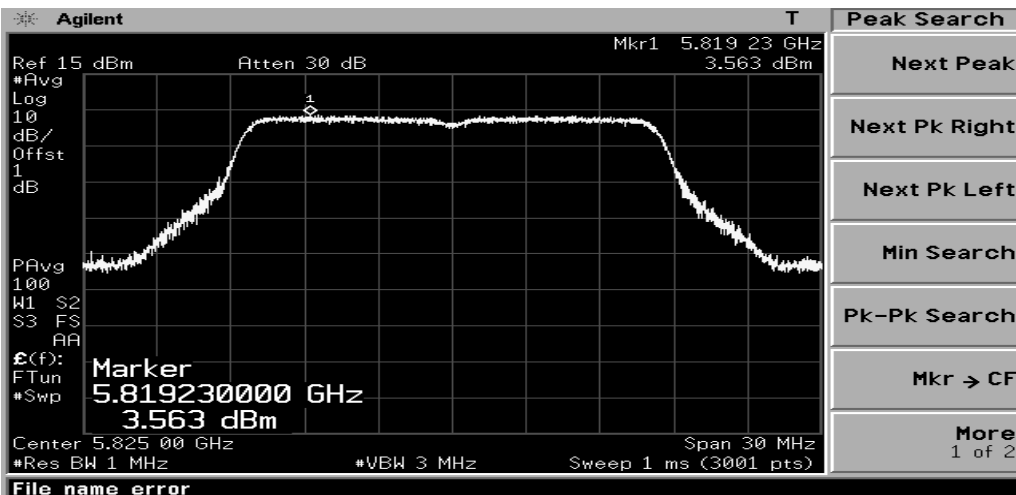
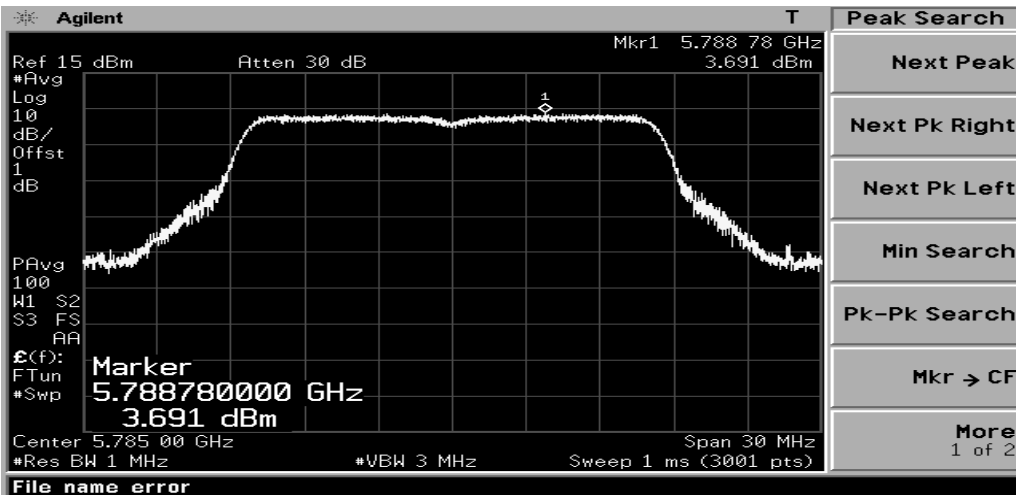
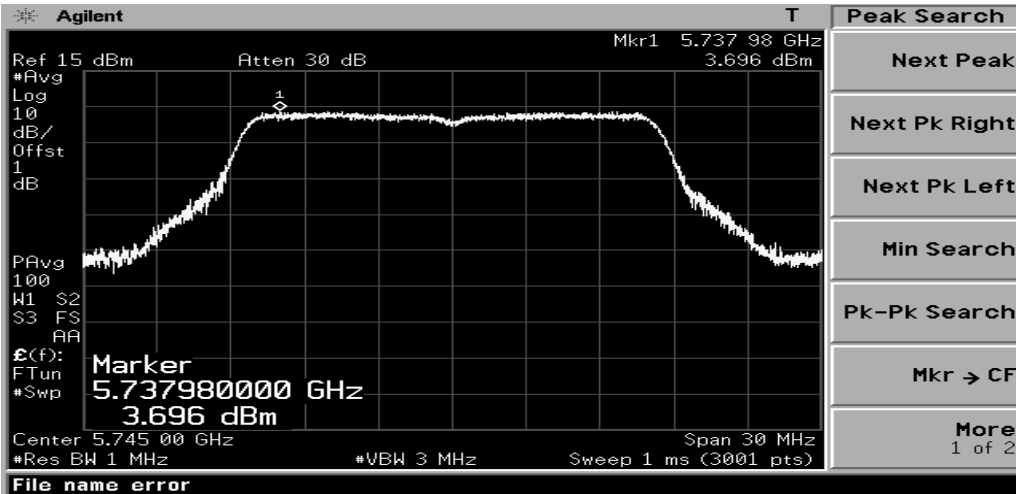
802.11a (U-NII 2A)



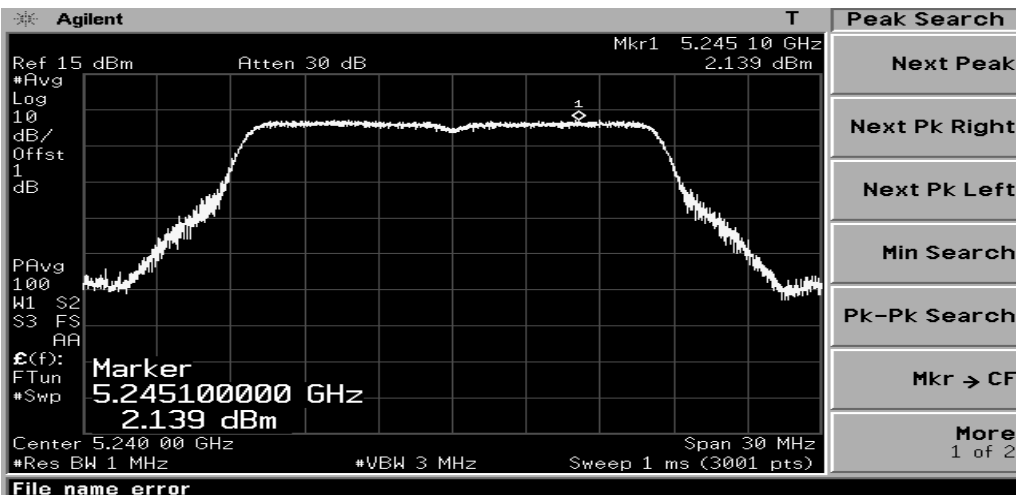
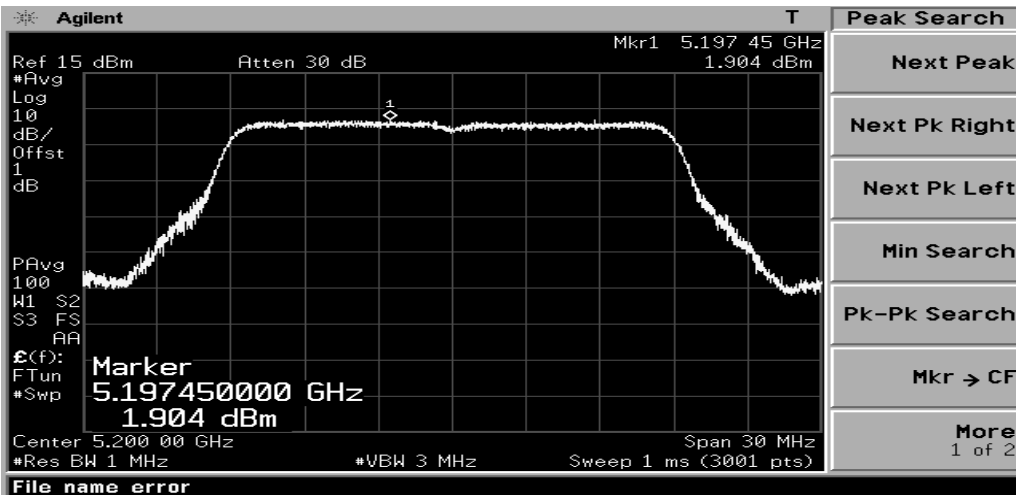
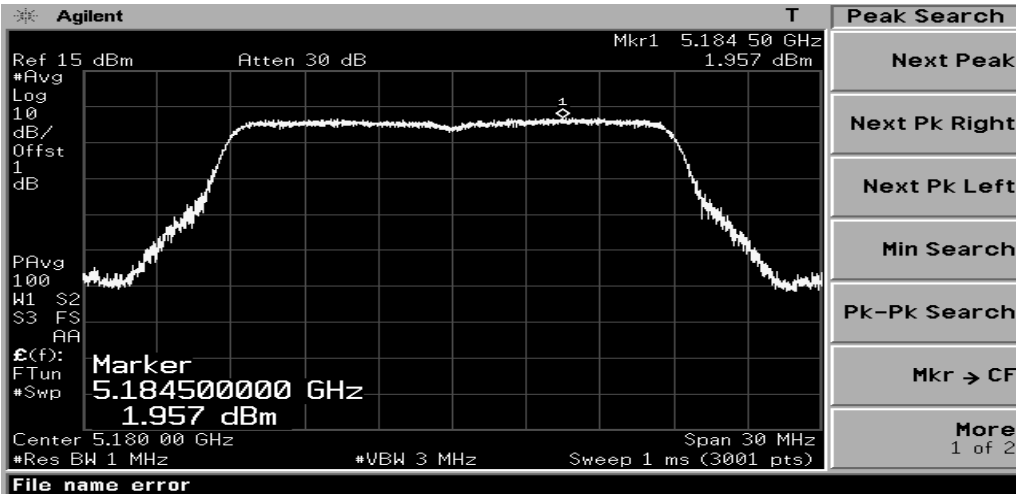
802.11a (U-NII 2C)



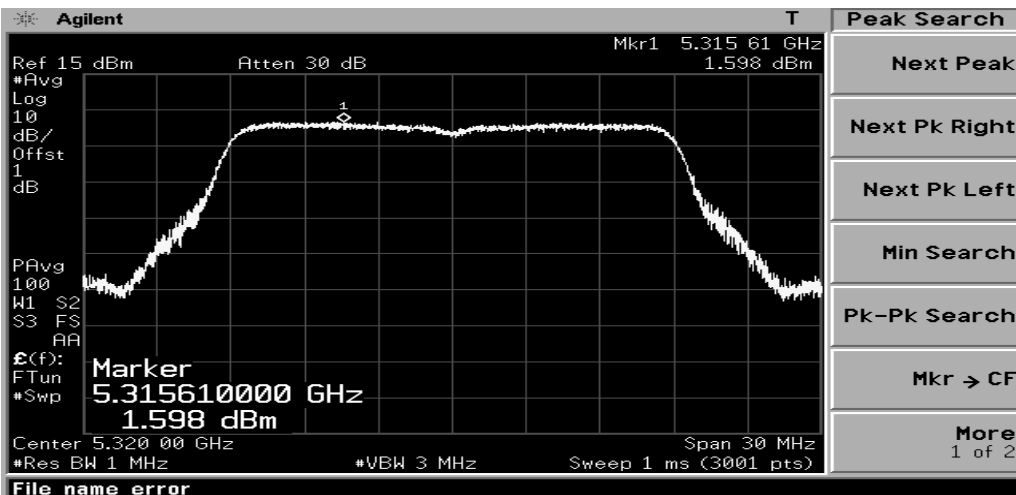
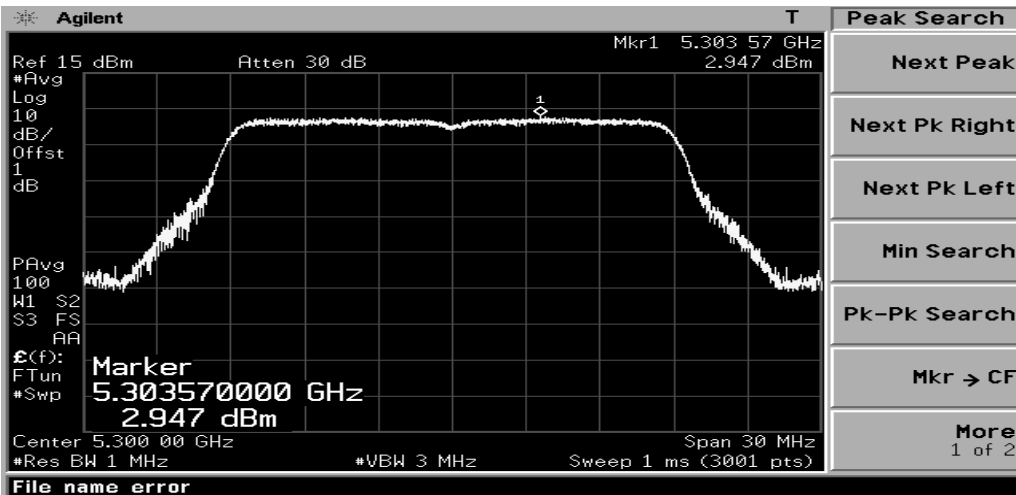
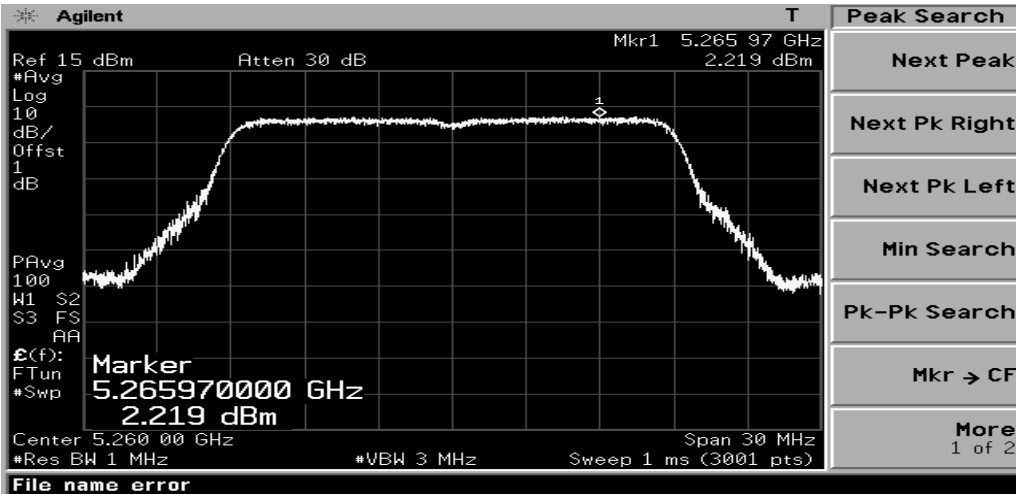
802.11a (U-NII 3)



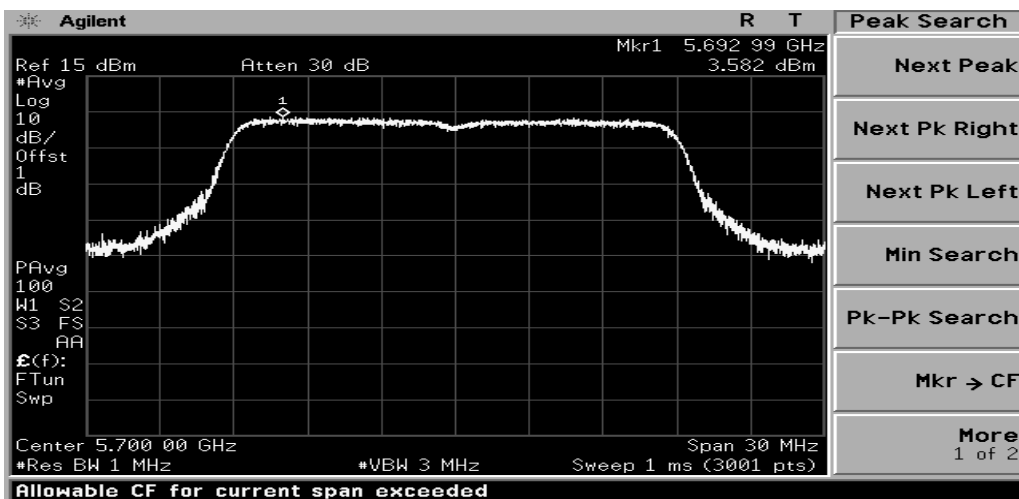
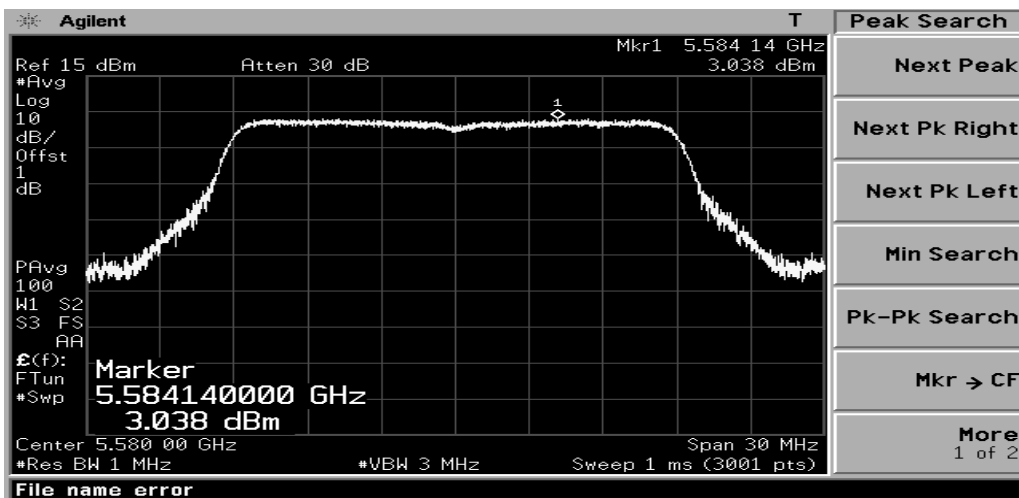
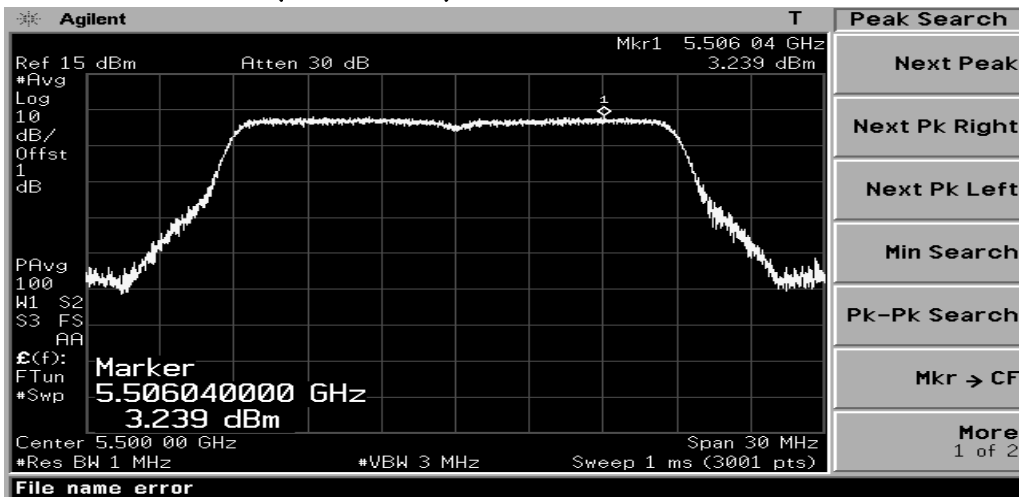
802.11n HT20 (U-NII 1)



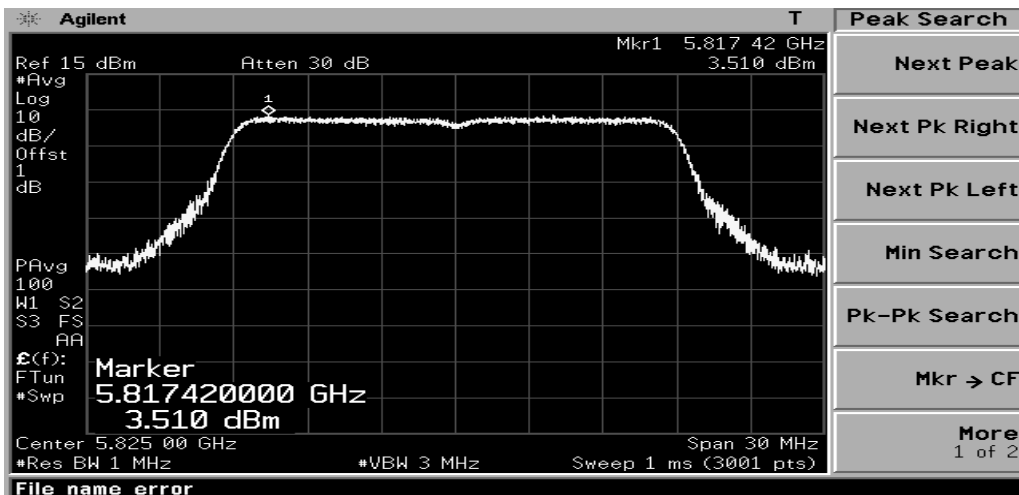
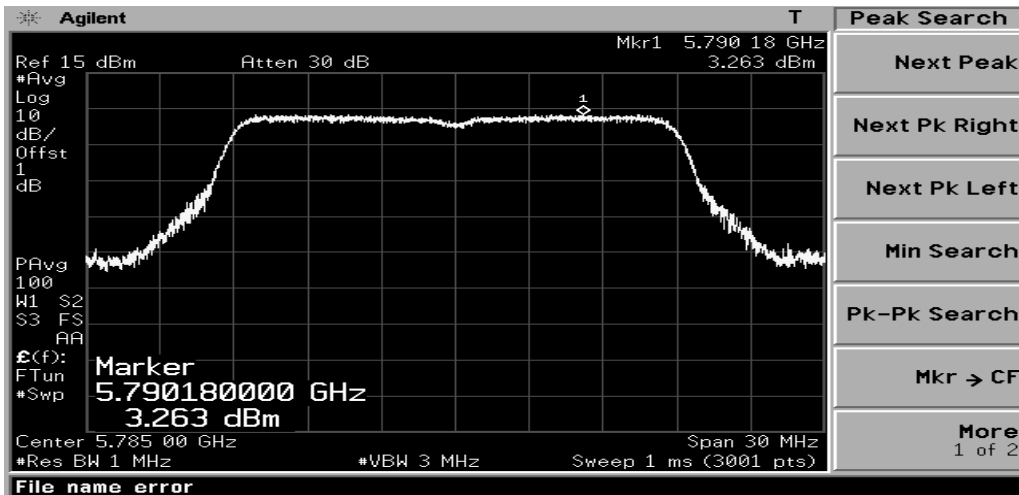
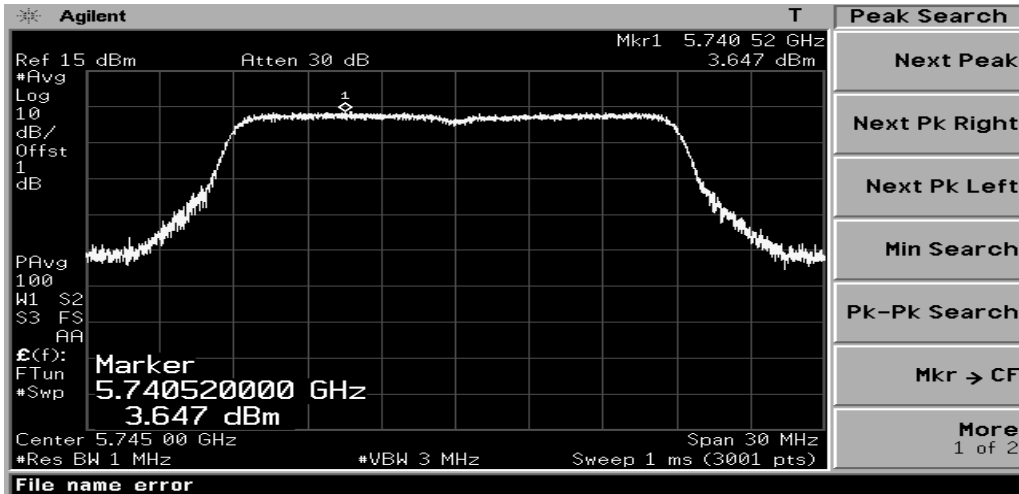
802.11n HT20 (U-NII 2A)



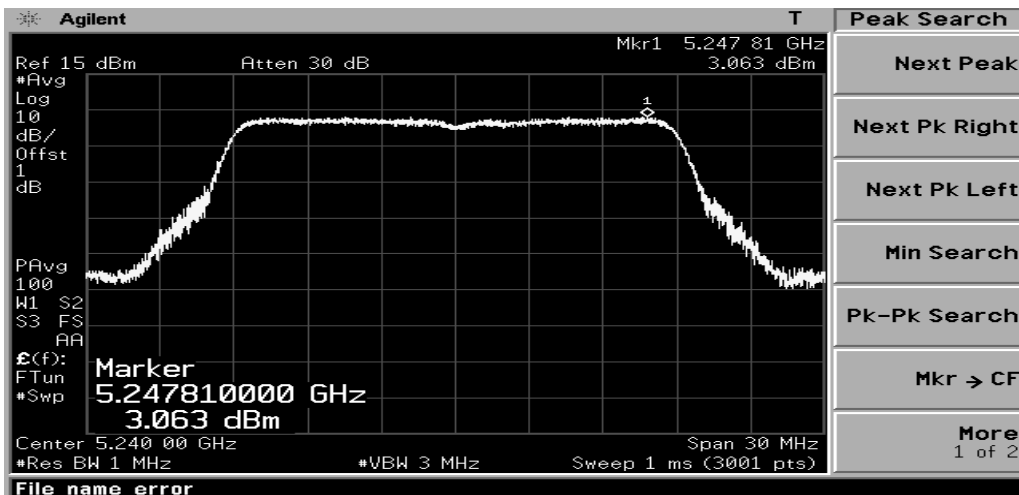
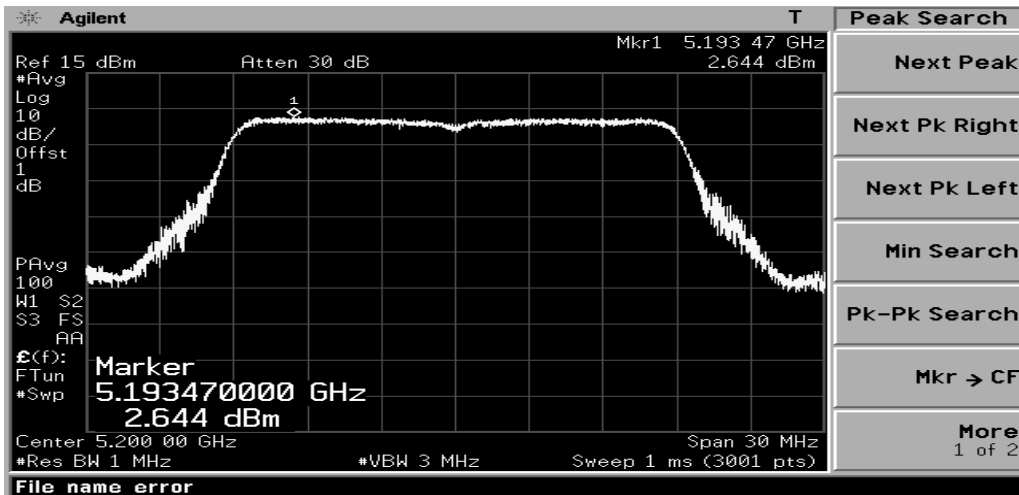
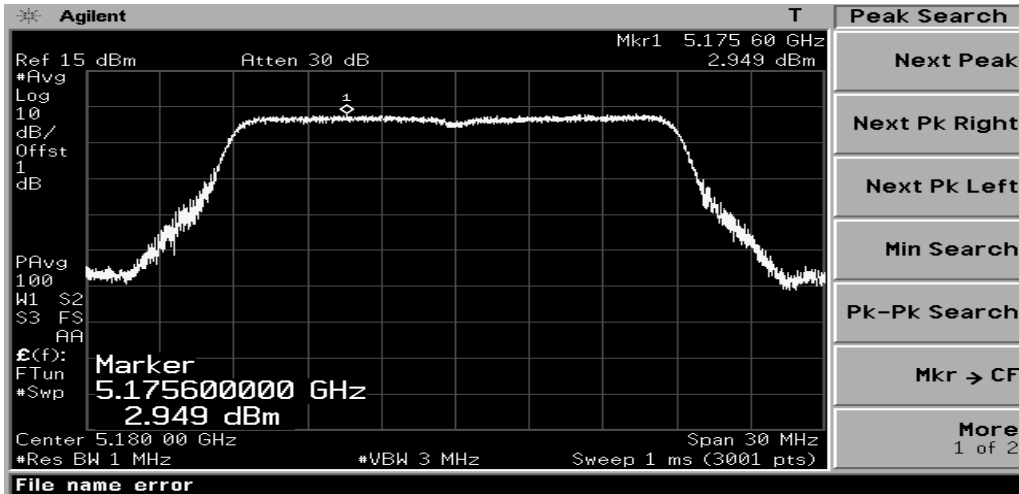
802.11n HT20 (U-NII 2C)



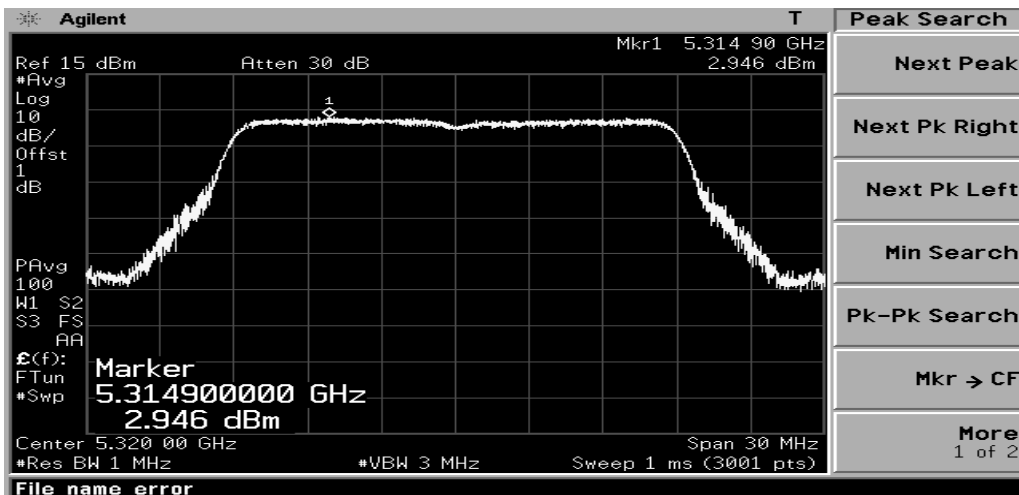
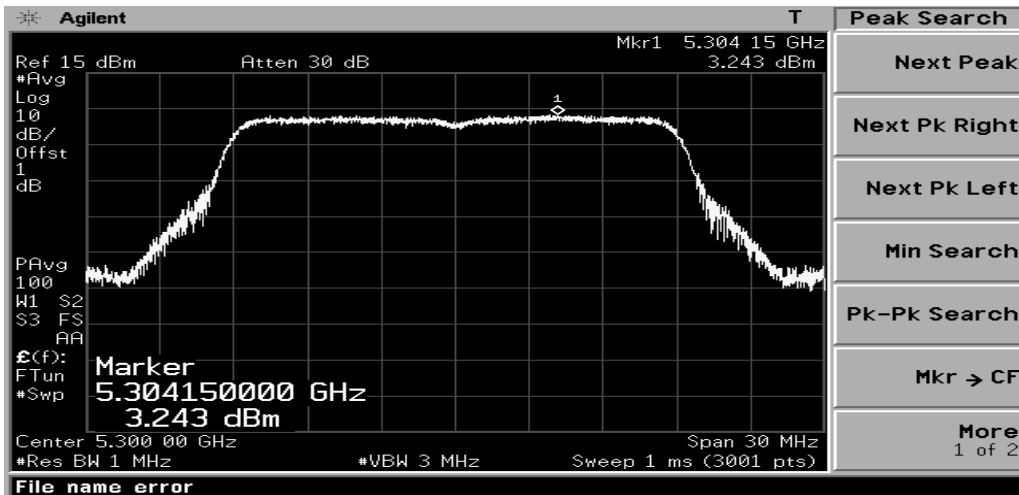
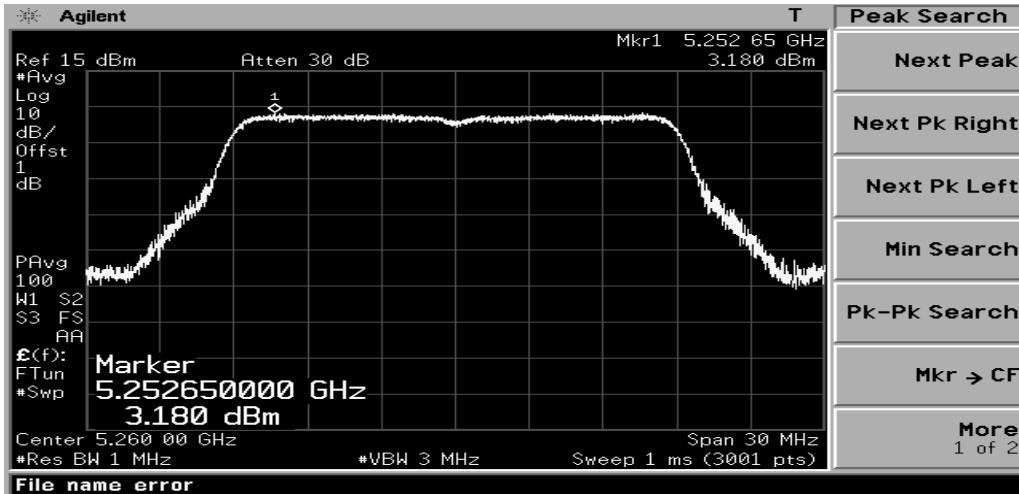
802.11n HT20 (U-NII 3)



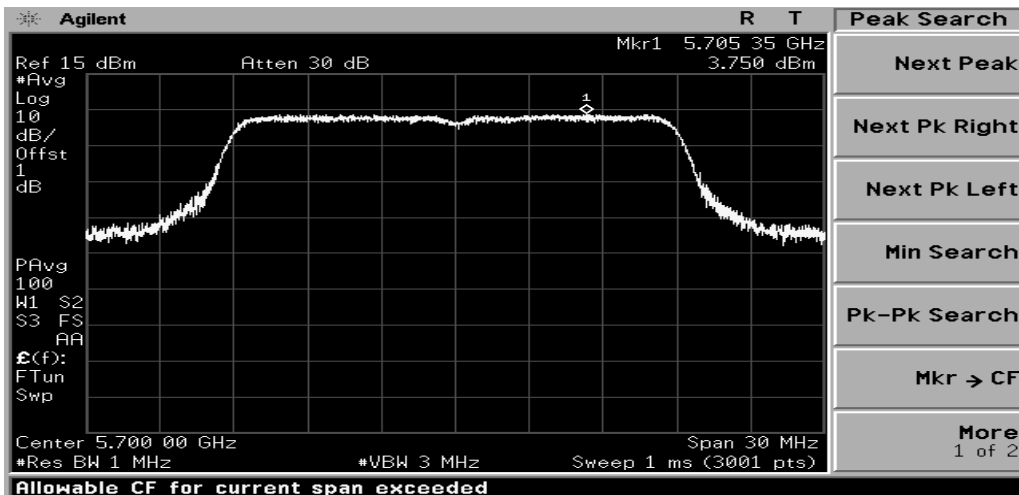
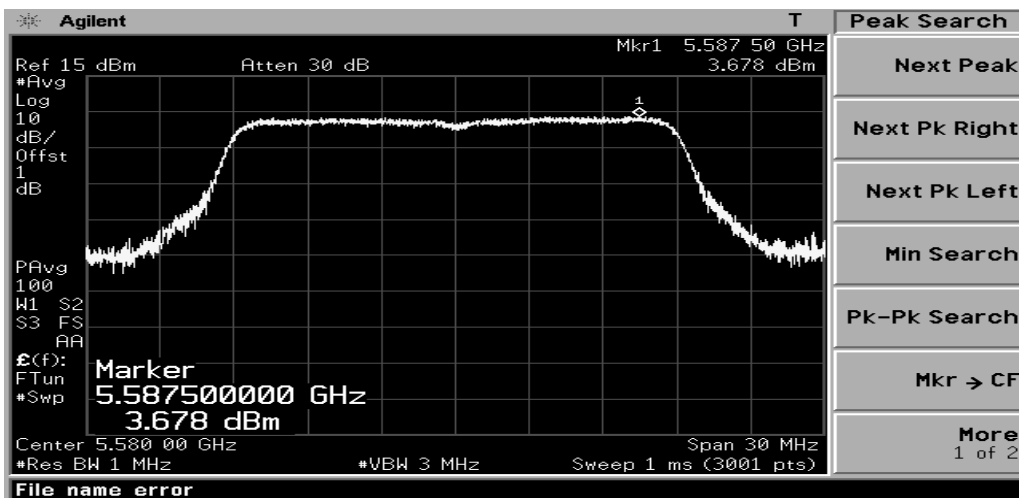
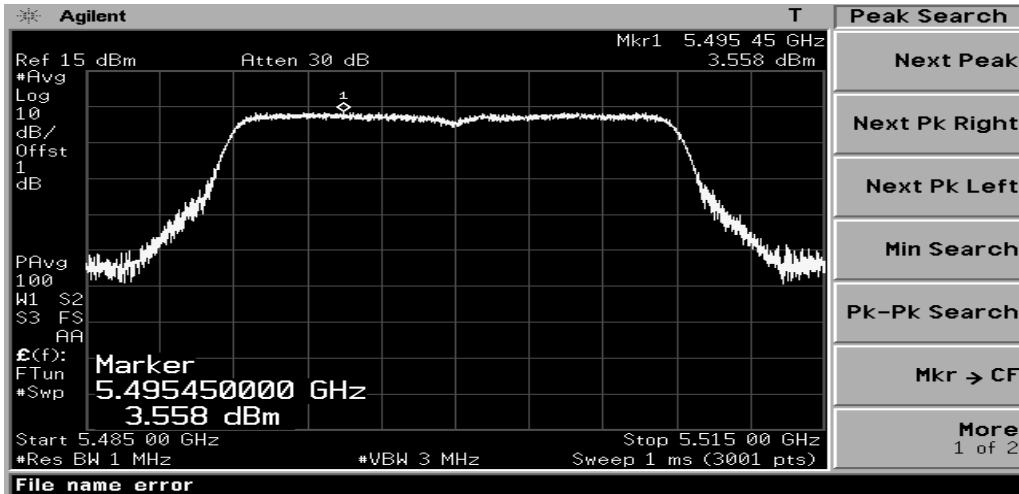
802.11ac VHT20 (U-NII 1)



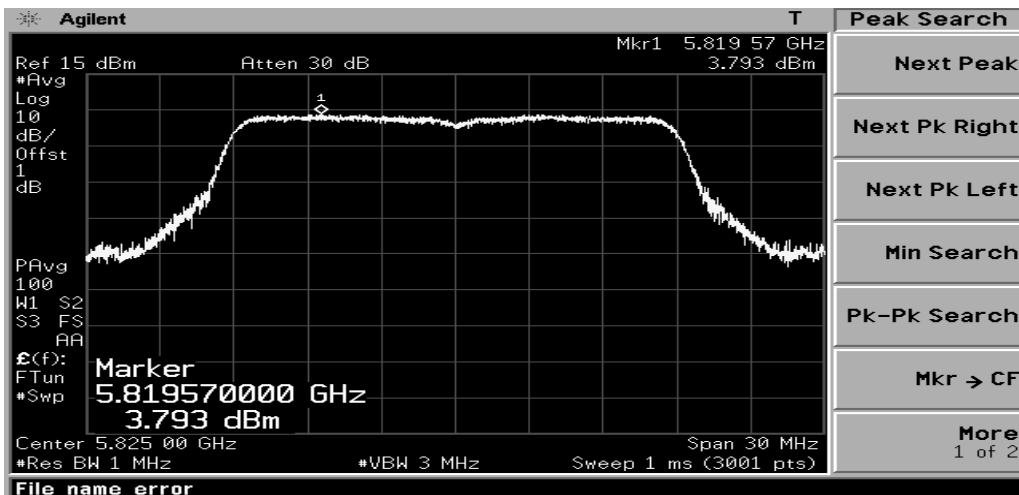
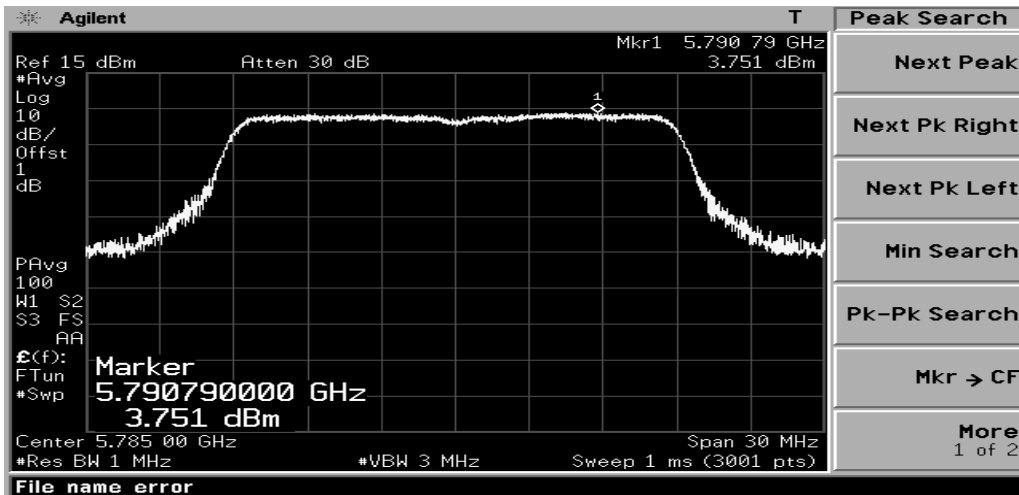
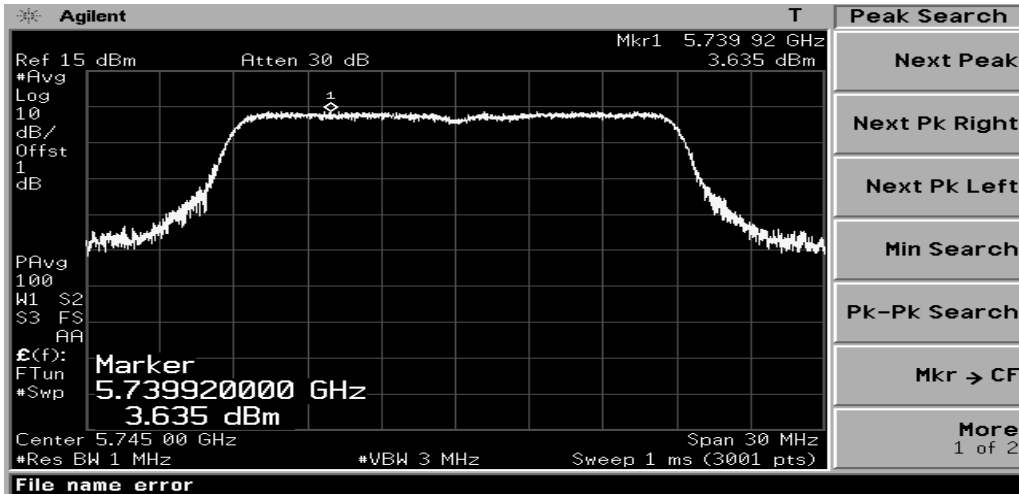
802.11ac VHT20 (U-NII 2A)



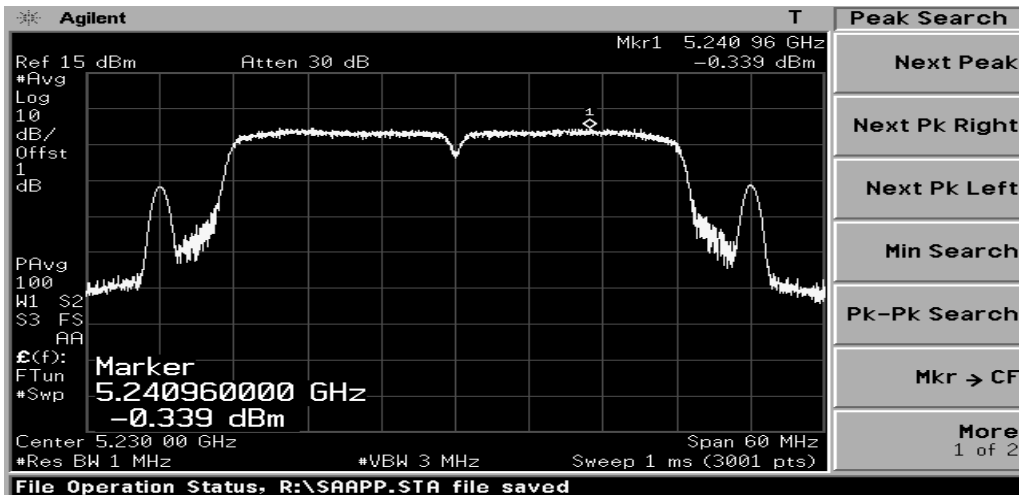
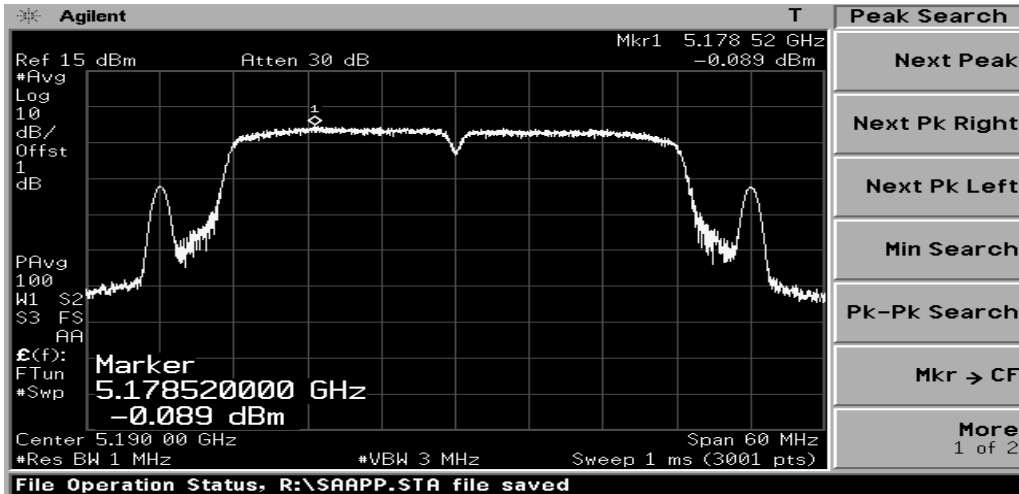
802.11ac VHT20 (U-NII 2C)



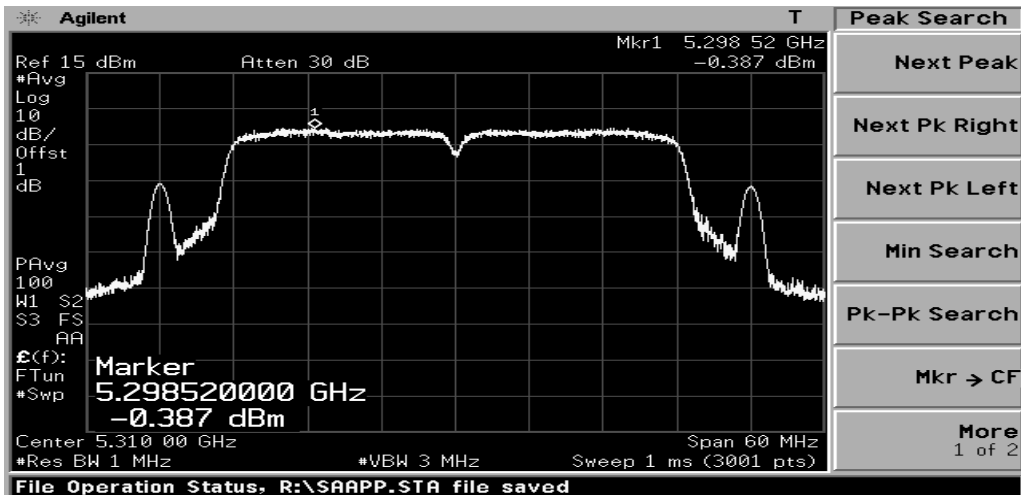
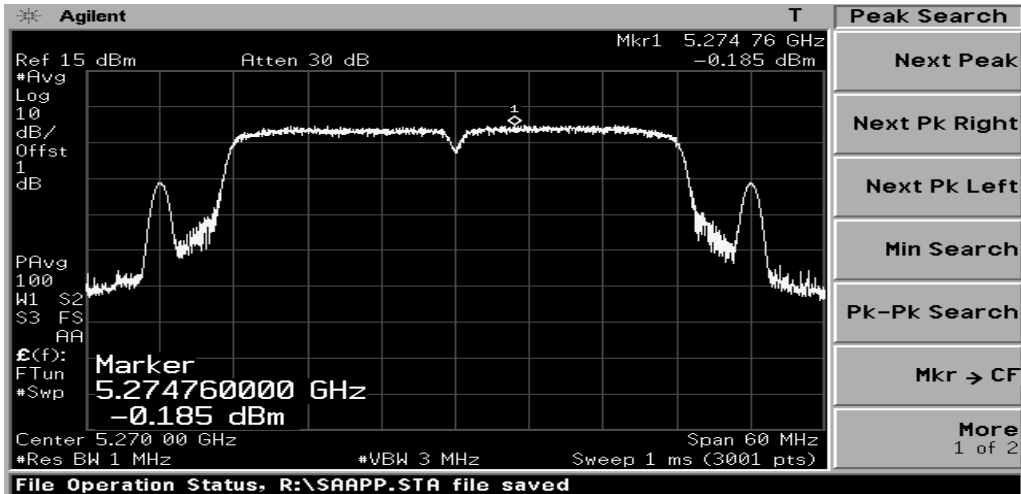
802.11ac VHT20 (U-NII 3)



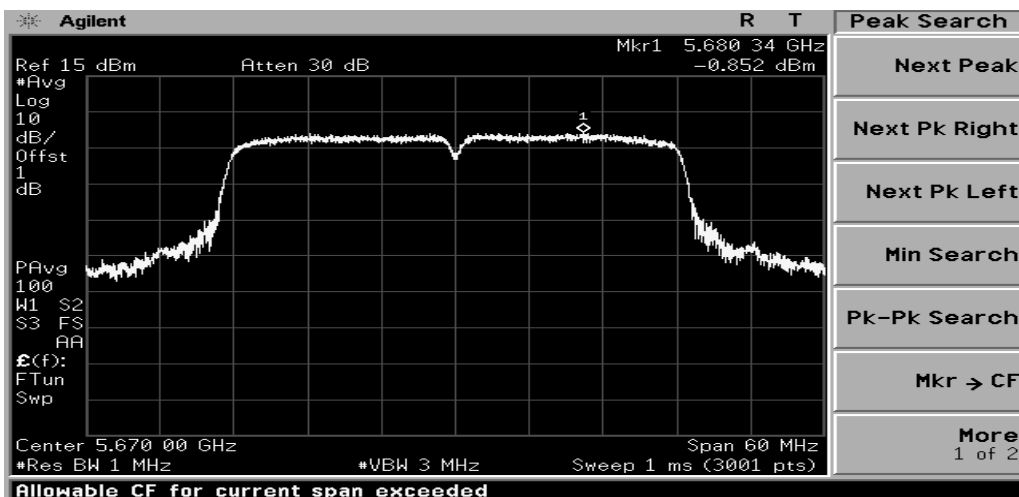
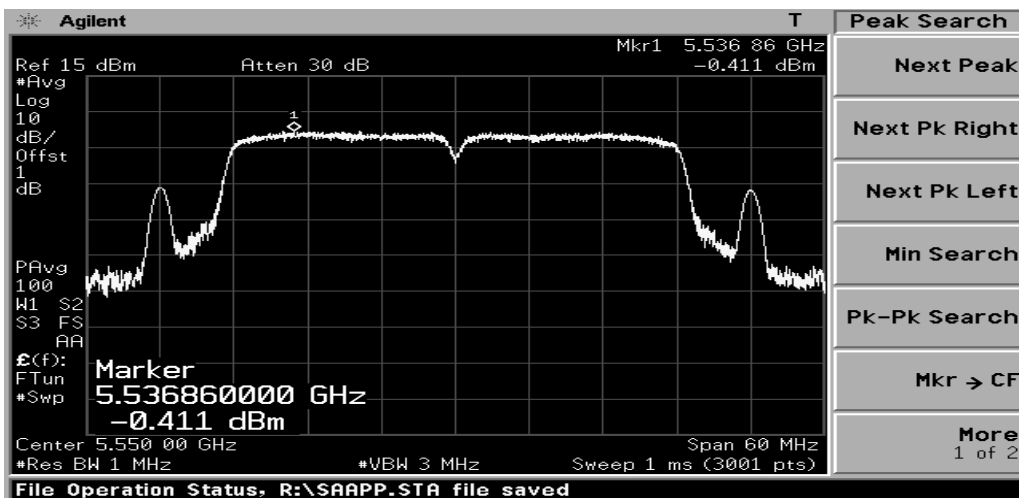
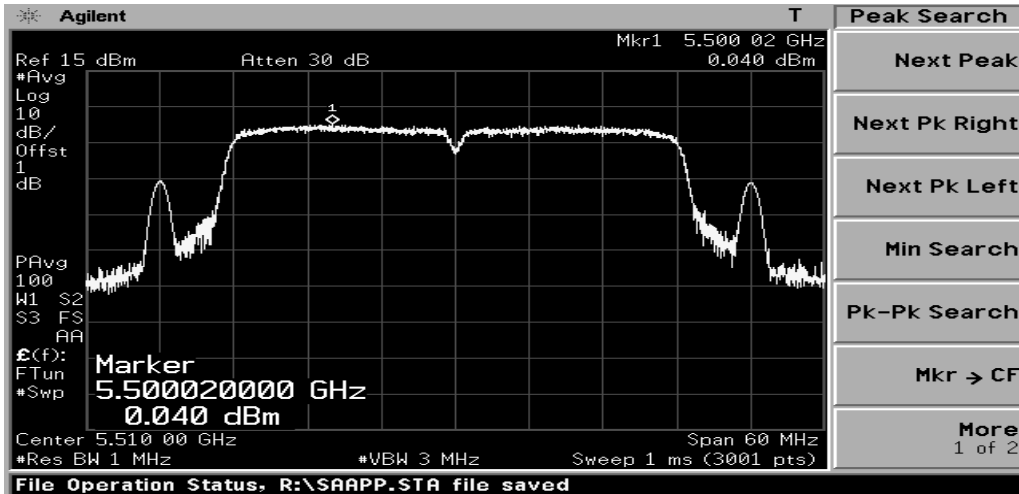
802.11n HT40 (U-NII 1)



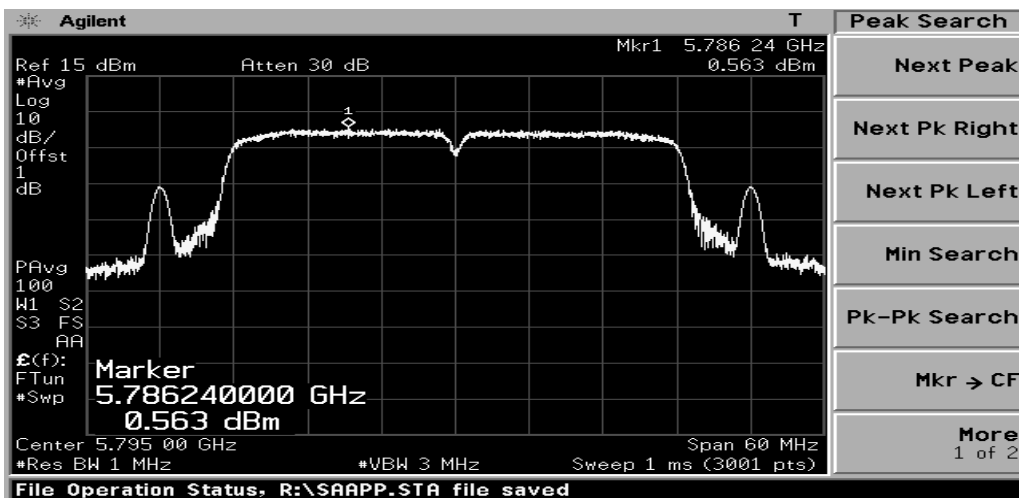
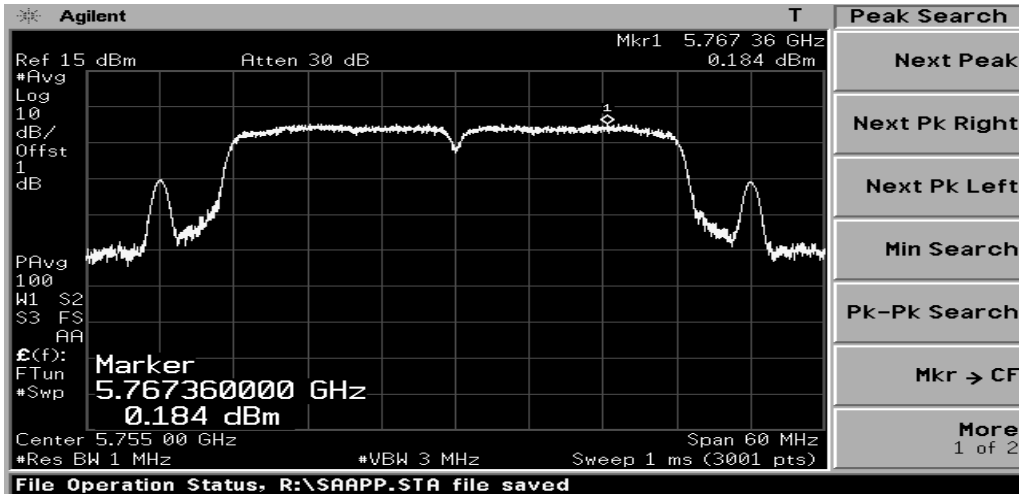
802.11n HT40 (U-NII 2A)



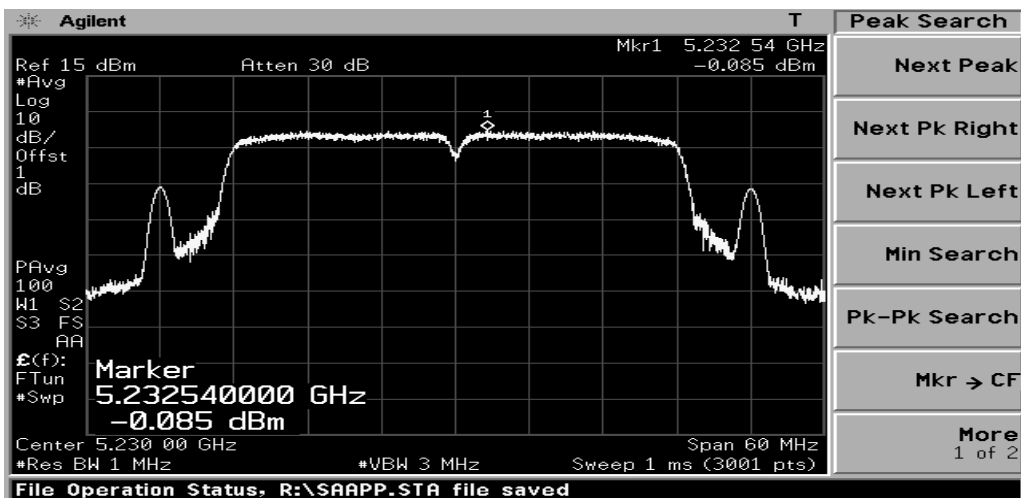
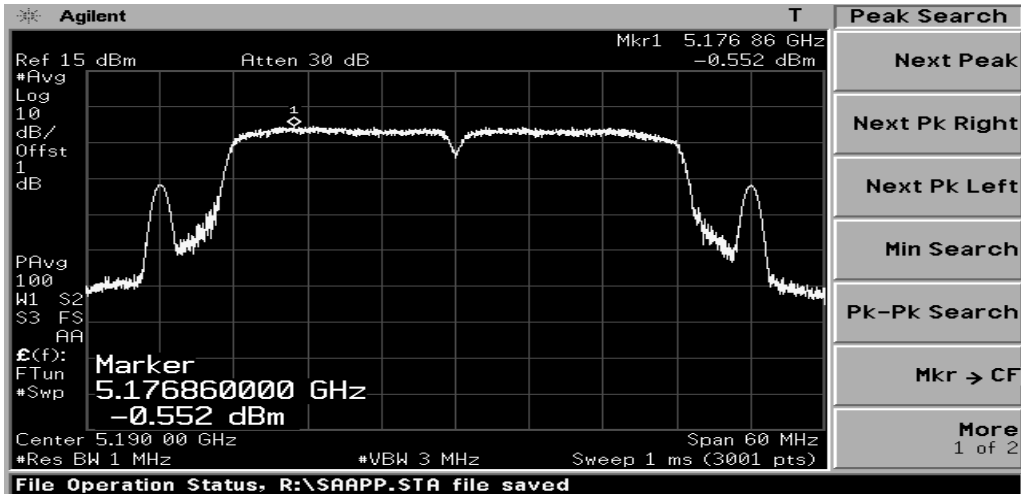
802.11n HT40 (U-NII 2C)



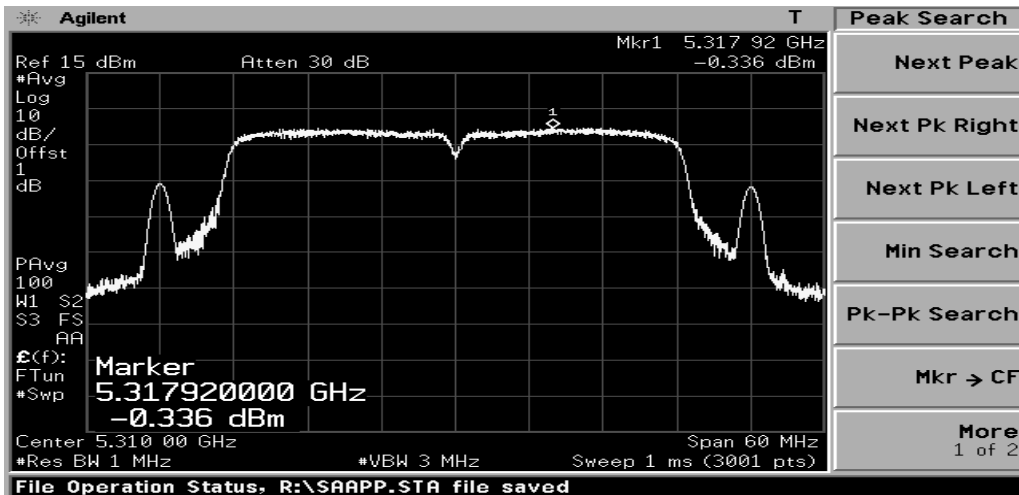
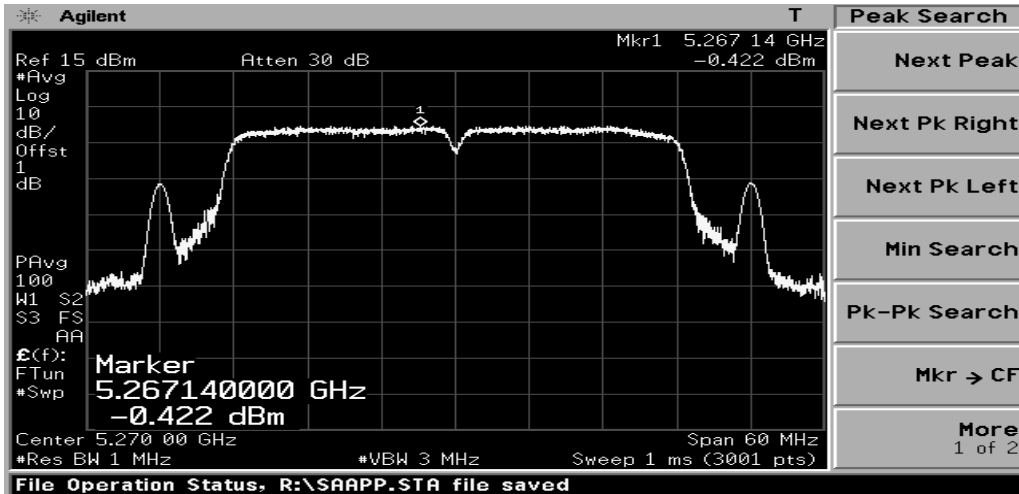
802.11n HT40 (U-NII 3)



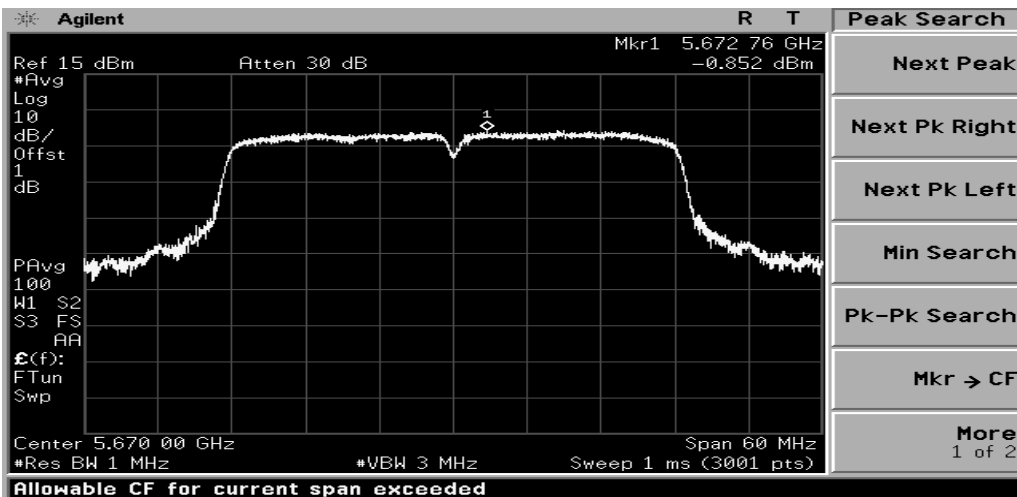
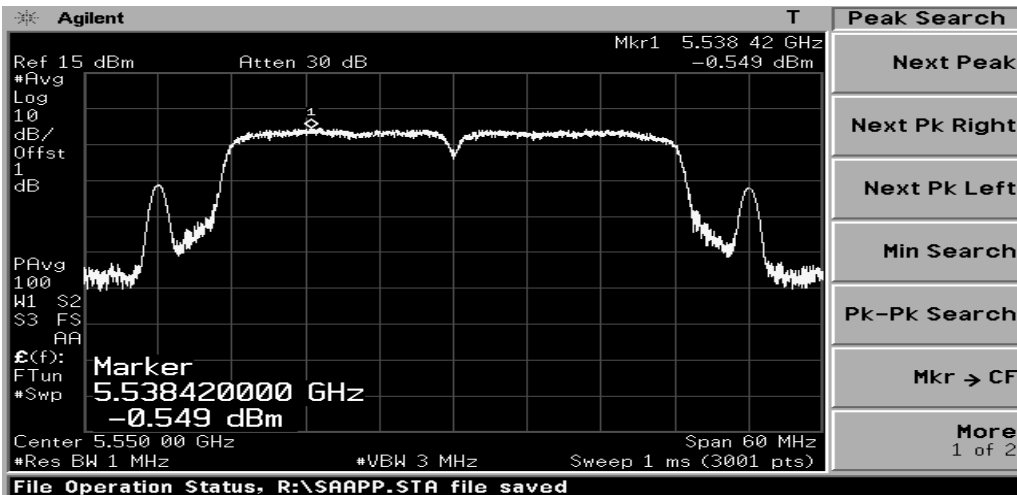
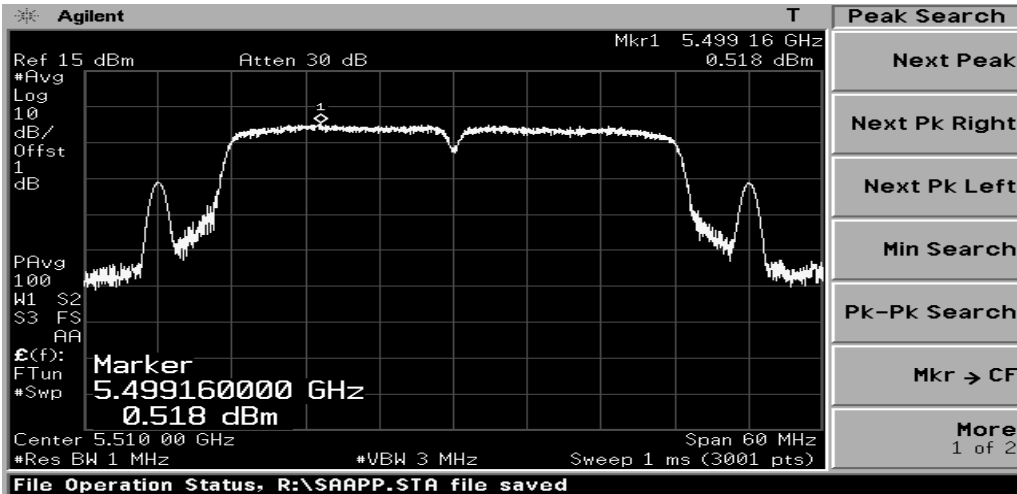
802.11ac VHT40 (U-NII 1)



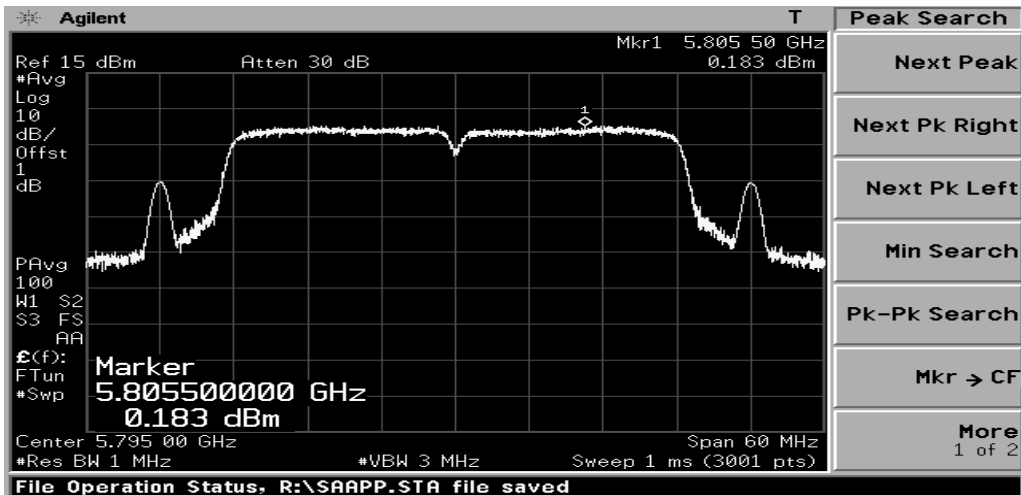
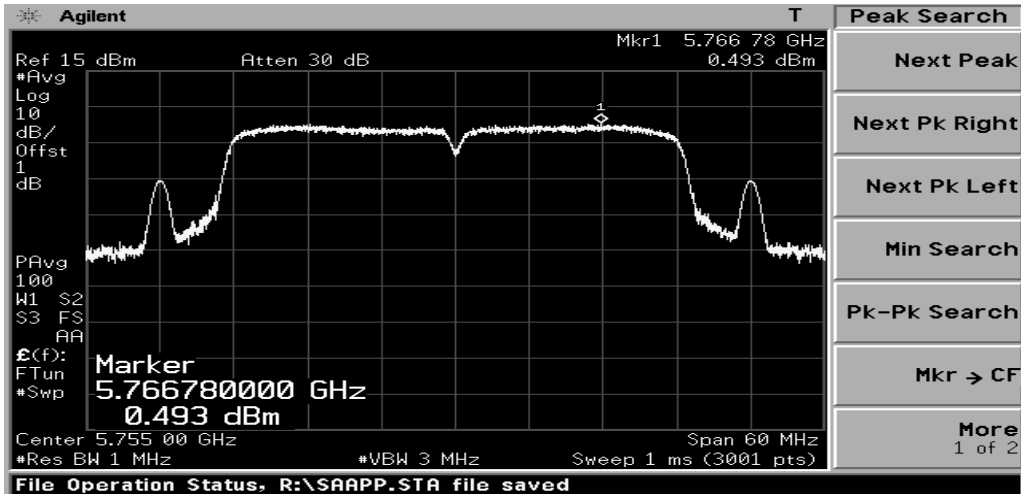
802.11ac VHT40 (U-NII 2A)



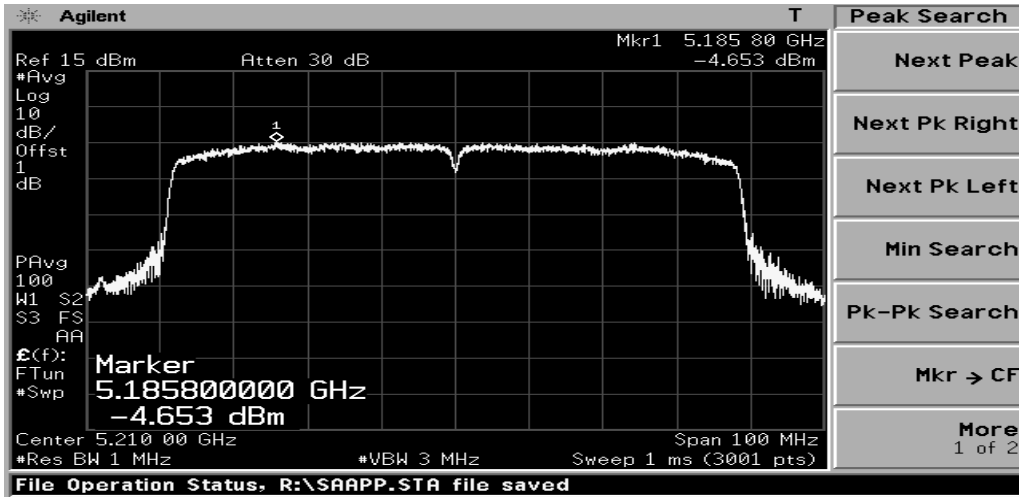
802.11ac VHT40 (U-NII 2C)



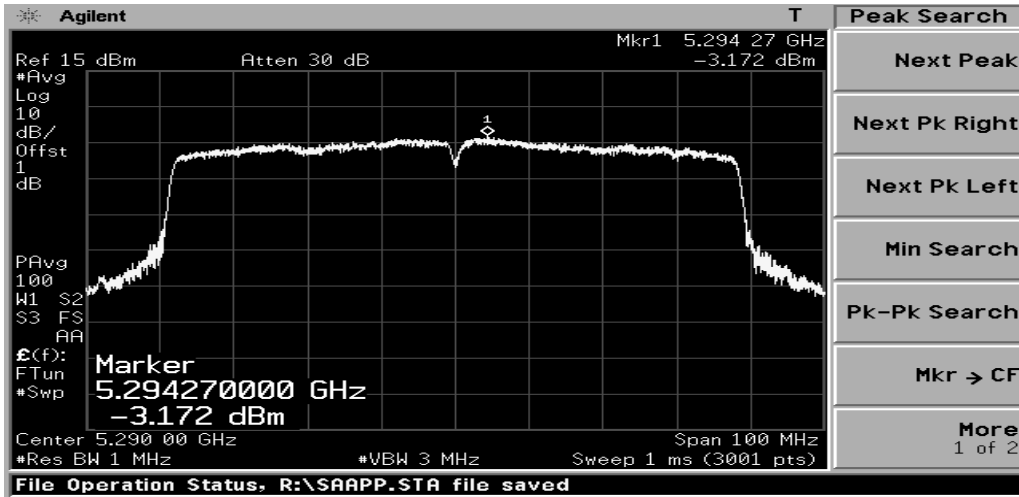
802.11ac VHT40 (U-NII 3)



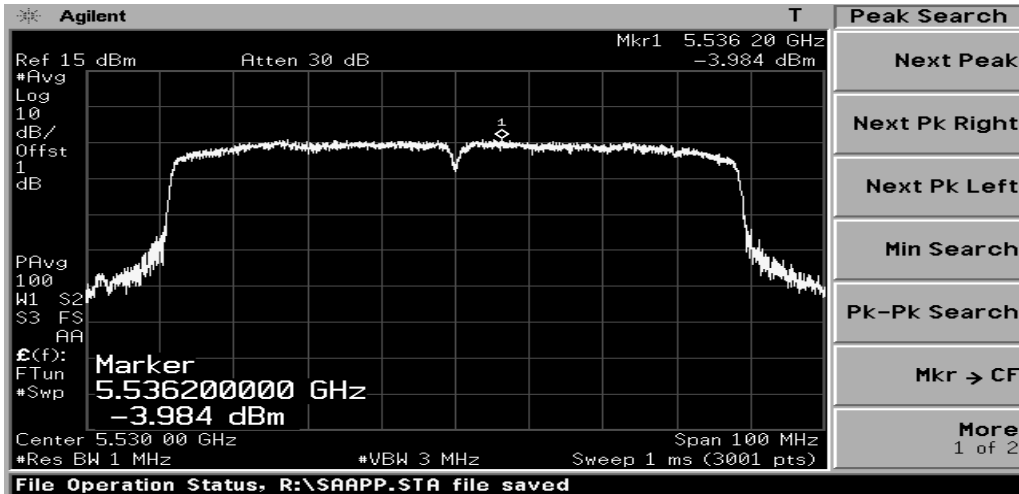
802.11ac VHT80 (U-NII 1)



802.11ac VHT80 (U-NII 2A)



802.11ac VHT80 (U-NII 2C)



802.11ac VHT80 (U-NII 3)



9. Spurious Emission, Band Edge and Restricted bands

Above 30 MHz Electric Field strength was measured in accordance with FCC PART 15.205, 15.209 . The test setup was made according to ANSI C 63.10 Semi-anechoic chamber, which allows a 3 m distance measurement. The EUT was placed in the center of styrofoam. turntable. The height of this table was 0.8 m. The measurement was conducted with both horizontal and vertical antenna polarization. The turntable has fully rotated. For further description of the configuration refer to the picture of the test setup.

9.1 Measurement equipments

Equipment Name	Type	Manufacturer	Serial No.	Next Calibration date
TEST Receiver	ESC17	ROHDE & SCHWARZ	100916	19-Jul-22
TEST Receiver	ESW	ROHDE & SCHWARZ	101554	6-Jul-19
Logbicon Antenna	VULB 9168	SCHWARZBECK	193	14-Jan-22
Turn Table	DT3000-2t	Innco System GmbH	N/A	-
Antenna Mast	MA4000-EP	Innco System GmbH	N/A	-
PREAMPLIFIER	8449B	AGILENT	3008A00581	20-Jul-22
Horn Antenna	BBHA9120D	SCHWARZBECK	469	24-Dec-21
Test Receiver	ESPI7	ROHDE & SCHWARZ	100393	1-Dec-21
Spectrum Analyzer	R3273	ADVANTEST	121200664	10-Oct-18
Turn Table	DT1500-S	Innco System GmbH	N/A	-
Antenna Mast	MA4000-EP	Innco System GmbH	N/A	-
Horn Antenna	BBHA 9170	SCHWARZBECK	752	15-Oct-21
AMPLIFIER	TK-PA1840H	TESTEK	N/A	28-Sep-18
Pyramidal Horn Antenna	3160-09-01	EST-L INDGREN	102642	25-Aug-18
Antenna Master & Turn table controller	C02000-P	Innco System GmbH	CO2000/642 /28051111/L	-

9.2 Environmental Condition

Below 1 GHz –Test Place : 10 m Semi-anechoic chamber

WLAN Mode

Temperature (°C) : 21.4 °C

Humidity (% R.H.) : 55.7 % R.H.

Above 1 GHz–Test Place : 3 m Semi-anechoic chamber

WLAN 802.11 b,g,n20 Mode

Temperature (°C) : 22.1 °C

Humidity (% R.H.) : 53.5 % R.H.

9.3 Measurement Instrument setting for Radiated Emission

9.3.1 Frequency range below 1 GHz

Detector : Quasi-Peak

9.3.2 Frequency range above 1 GHz

- a. RBW : 1 MHz , VBW : 3 MHz
- b. Trace mode = max hold
- c. Detector : Peak
- d. Sweep time = auto

- a. Set analyzer center frequency to the frequency associated with the emission
- b. RBW : 1 MHz , VBW : 3 MHz
- c. Detector : RMS
- d. Sweep time = auto

* Note

Band	Duty cycle(%)	Ton (ms)	Ton + Toff (ms)	DCF=10*log(1/Duty) (dB)
802.11a	84.30	1.044	1.238	0.740
802.11n HT20	84.20	1.039	1.233	0.743
802.11n HT40	83.50	0.979	1.173	1.466
802.11ac VHT20	71.30	0.489	0.685	0.781
802.11ac VHT40	71.50	0.494	0.690	1.455
802.11ac VHT80	83.20	0.987	1.175	0.796

* This was not applied of duty cycle factor for average value because of measured with the EUT transmitting continuously more than 98 % duty cycle at its maximum power control level.

9.4 Test Data

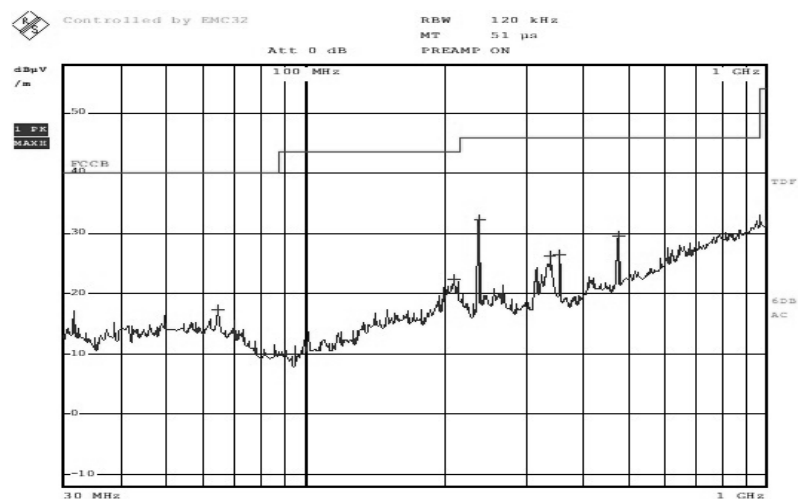
Test Date : 13-Aug-21

Measurement Distance : 3 m

Frequency (MHz)	Reading (dB μ V)	Position (V/H)	Height (m)	Correction Factor		Result Value		
				Ant Factor (dB)	Cable (dB)	Limit (dB μ V/m)	Result (dB μ V/m)	Margin (dB)
199.00	15.87	V	1.0	10.10	2.15	43.50	28.13	15.37
207.90	10.32	H	1.5	10.30	2.21	43.50	22.83	20.67
239.00	18.95	H	1.4	11.41	2.39	46.00	32.74	13.26
476.20	13.85	H	1.3	17.34	3.43	46.00	34.63	11.37
477.80	8.15	V	1.8	17.37	3.44	46.00	28.96	17.04
944.10	4.02	H	1.0	23.94	5.07	46.00	33.04	12.96
Remark	H : Horizontal, V : Vertical *Checked in all 3 axis and the maximum measured data were reported.(Worst data is Z axis of position) *CL = Cable Loss(In case of below 1 000 MHz) *Result Value = Reading + Ant Factor + Cable loss *The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection at frequency below 1 GHz.							

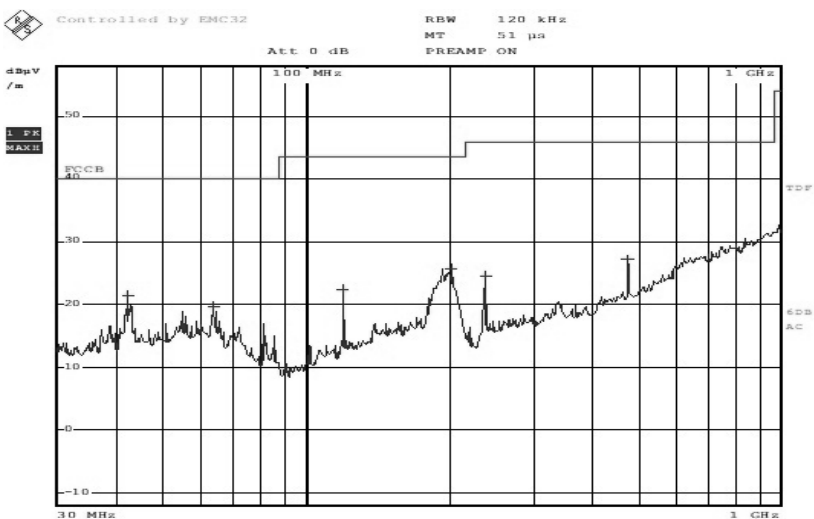
9.5 Restricted Band Edges

Polarity:Horizontal



ESTR-21-00231

Polarity:Vertical

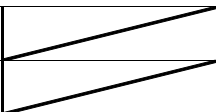


ESTR-21-00231

9.4-2 Test Data (802.11a 5180)

Test Date : 14-Aug-21

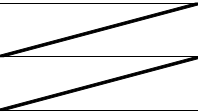
Measurement Distance : 3 m

Frequency (MHz)	Reading (dB μV)	Position (V/H)	Height (m)	Correction Factor		Duty Cycle Correction(dB)	Result Value		
				Ant Factor (dB)	Cable (dB)		Limit (dB μV /m)	Result (dB μV /m)	Margin (dB)
PEAK(RBW: 1 MHz VBW: 3 MHz)									
5150.00	45.29	H	1.8	31.55	-26.64		74.00	50.20	23.80
5150.00	45.43	V	1.5	31.55	-26.64		74.00	50.34	23.66
AV(RBW: 1 MHz VBW: 3 MHz)									
5150.00	34.62	H	1.8	31.55	-26.64	0.74	54.00	40.27	13.73
5150.00	33.43	V	1.5	31.55	-26.64	0.74	54.00	39.08	14.92
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11 a – CH 36(5 180 MHz)								
	*The TX signal wasn't detected from 3th harmonics.								
	*Checked in all 3 axis and the maximum measured data were reported.(Worst data is Z axis of position)								
	*Total = Reading Value + Antenna Factor + Cable Loss – Amp Gain + Duty Cycle Correction								

Test Data (802.11a 5240)

Test Date : 14-Aug-21

Measurement Distance : 3 m

Frequency (MHz)	Reading (dB μV)	Position (V/H)	Height (m)	Correction Factor		Duty Cycle Correction(dB)	Result Value		
				Ant Factor (dB)	Cable (dB)		Limit (dB μV /m)	Result (dB μV /m)	Margin (dB)
PEAK(RBW: 1 MHz VBW: 3 MHz)									
5350.00	44.42	H	1.7	31.63	-26.63		74.00	49.42	24.58
5350.00	43.91	V	1.6	31.63	-26.63		74.00	48.91	25.09
AV(RBW: 1 MHz VBW: 3 MHz)									
5350.00	33.76	H	1.7	31.63	-26.63	0.74	54.00	39.50	14.50
5350.00	33.79	V	1.6	31.63	-26.63	0.74	54.00	39.53	14.47
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11 a – CH 48(5 240 MHz)								
	*The TX signal wasn't detected from 3th harmonics.								
	*Checked in all 3 axis and the maximum measured data were reported.(Worst data is Z axis of position)								
	*Total = Reading Value + Antenna Factor + Cable Loss – Amp Gain + Duty Cycle Correction								

Test Data (802.11a 5260)

Test Date : 14-Aug-21

Measurement Distance : 3 m

Frequency (MHz)	Reading (dB μV)	Position (V/H)	Height (m)	Correction Factor		Duty Cycle Correction(dB)	Result Value		
				Ant Factor (dB)	Cable (dB)		Limit (dB μV /m)	Result (dB μV /m)	Margin (dB)
PEAK(RBW: 1 MHz VBW: 3 MHz)									
5150.00	43.66	H	1.5	31.55	-26.64		74.00	48.57	25.43
5150.00	44.85	V	1.5	31.55	-26.64			74.00	49.76
AV(RBW: 1 MHz VBW: 3 MHz)									
5150.00	33.22	H	1.5	31.55	-26.64	0.74	54.00	38.87	15.13
5150.00	33.20	V	1.5	31.55	-26.64	0.74	54.00	38.85	15.15
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11 a – CH 52(5 260 MHz)								
	*The TX signal wasn't detected from 3th harmonics.								
	*Checked in all 3 axis and the maximum measured data were reported.(Worst data is Z axis of position)								
	*Total = Reading Value + Antenna Factor + Cable Loss – Amp Gain + Duty Cycle Correction								

Test Data (802.11a 5320)

Test Date : 14-Aug-21

Measurement Distance : 3 m

Frequency (MHz)	Reading (dB μ V)	Position (V/H)	Height (m)	Correction Factor		Duty Cycle Correction(dB)	Result Value		
				Ant Factor (dB)	Cable (dB)		Limit (dB μ V/m)	Result (dB μ V/m)	Margin (dB)
PEAK(RBW: 1 MHz VBW: 3 MHz)									
5350.00	46.03	H	1.5	31.63	-26.63		74.00	51.03	22.97
5350.00	44.35	V	1.5	31.63	-26.63			74.00	49.35
AV(RBW: 1 MHz VBW: 3 MHz)									
5350.00	33.70	H	1.5	31.63	-26.63	0.74	54.00	39.44	14.56
5350.00	33.63	V	1.5	31.63	-26.63	0.74	54.00	39.37	14.63
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11 a – CH 64(5 320 MHz)								
	*The TX signal wasn't detected from 3th harmonics.								
	*Checked in all 3 axis and the maximum measured data were reported.(Worst data is Z axis of position)								
	*Total = Reading Value + Antenna Factor + Cable Loss – Amp Gain + Duty Cycle Correction								

Test Data (802.11a 5500)

Test Date : 14-Aug-21

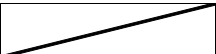
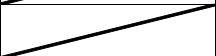
Measurement Distance : 3 m

Frequency (MHz)	Reading (dB μV)	Position (V/H)	Height (m)	Correction Factor		Duty Cycle Correction(dB)	Result Value		
				Ant Factor (dB)	Cable (dB)		Limit (dB μV /m)	Result (dB μV /m)	Margin (dB)
PEAK(RBW: 1 MHz VBW: 3 MHz)									
5150.00	46.32	H	1.5	31.55	-26.64		74.00	51.23	22.77
5150.00	51.77	V	1.5	31.55	-26.64			74.00	56.68
AV(RBW: 1 MHz VBW: 3 MHz)									
5150.00	33.56	H	1.5	31.55	-26.64	0.74	54.00	39.21	14.79
5150.00	33.71	V	1.5	31.55	-26.64	0.74	54.00	39.36	14.64
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11 a – CH 100(5 500 MHz)								
	*The TX signal wasn't detected from 3th harmonics.								
	*Checked in all 3 axis and the maximum measured data were reported.(Worst data is Z axis of position)								
	*Total = Reading Value + Antenna Factor + Cable Loss – Amp Gain + Duty Cycle Correction								

Test Data (802.11a 5700)

Test Date : 14-Aug-21

Measurement Distance : 3 m

Frequency (MHz)	Reading (dB μ V)	Position (V/H)	Height (m)	Correction Factor		Duty Cycle Correction(dB)	Result Value		
				Ant Factor (dB)	Cable (dB)		Limit (dB μ V/m)	Result (dB μ V/m)	Margin (dB)
PEAK(RBW: 1 MHz VBW: 3 MHz)									
5725.00	50.63	H	1.5	31.77	-26.77		74.00	55.64	18.36
5725.00	49.52	V	1.5	31.77	-26.77			74.00	54.53
AV(RBW: 1 MHz VBW: 3 MHz)									
5725.00	33.97	H	1.5	31.77	-26.77	0.74	54.00	39.72	14.28
5725.00	38.34	V	1.5	31.77	-26.77	0.74	54.00	44.09	9.91
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11 a – CH 140(5 700 MHz)								
	*The TX signal wasn't detected from 3th harmonics.								
	*Checked in all 3 axis and the maximum measured data were reported.(Worst data is Z axis of position)								
	*Total = Reading Value + Antenna Factor + Cable Loss – Amp Gain + Duty Cycle Correction								

Test Data(802.11n HT20 5180)

Test Date : 15-Aug-21

Measurement Distance : 3 m

Frequency (MHz)	Reading (dB μ V)	Position (V/H)	Height (m)	Correction Factor		Duty Cycle Correction(dB)	Result Value			
				Ant Factor (dB)	Cable (dB)		Limit (dB μ V/m)	Result (dB μ V/m)	Margin (dB)	
PEAK(RBW: 1 MHz VBW: 3 MHz)										
5124.00	49.13	H	1.5	31.54	-26.64		74.00	54.03	19.97	
5127.00	46.15	V	1.6	31.54	-26.64			74.00	51.05	22.95
5150.00	43.95	H	1.5	31.55	-26.64			74.00	48.86	25.14
5150.00	44.65	V	1.6	31.55	-26.64			74.00	49.56	24.44
AV(RBW: 1 MHz VBW: 3 MHz)										
5127.00	34.56	V	1.6	31.54	-26.64	0.74	54.00	40.21	13.79	
5150.00	33.34	H	1.6	31.55	-26.64	0.74	54.00	39.00	15.00	
5150.00	33.48	V	1.6	31.55	-26.64	0.74	54.00	39.14	14.86	
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11 HT20 – CH 36(5 180 MHz)									
	*The TX signal wasn't detected from 3th harmonics.									
	*Checked in all 3 axis and the maximum measured data were reported.(Worst data is Z axis of position)									
	*Total = Reading Value + Antenna Factor + Cable Loss – Amp Gain + Duty Cycle Correction									

Test Data(802.11n HT20 5240)

Test Date : 15-Aug-21

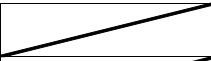
Measurement Distance : 3 m

Frequency (MHz)	Reading (dB μ V)	Position (V/H)	Height (m)	Correction Factor		Duty Cycle Correction(dB)	Result Value		
				Ant Factor (dB)	Cable (dB)		Limit (dB μ V/m)	Result (dB μ V/m)	Margin (dB)
PEAK(RBW: 1 MHz VBW: 3 MHz)									
5350.00	44.74	H	1.6	31.63	-26.63		74.00	49.74	24.26
5350.00	44.80	V	1.7	31.63	-26.63			74.00	49.80
AV(RBW: 1 MHz VBW: 3 MHz)									
5350.00	32.49	H	1.6	31.63	-26.63	0.74	54.00	38.23	15.77
5350.00	32.39	V	1.7	31.63	-26.63	0.74	54.00	38.13	15.87
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11 n HT20- CH 48(5 240 MHz)								
	*The TX signal wasn't detected from 3th harmonics.								
	*Checked in all 3 axis and the maximum measured data were reported.(Worst data is Z axis of position)								
	*Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Duty Cycle Correction								

Test Data(802.11n HT20 5320)

Test Date : 15-Aug-21

Measurement Distance : 3 m

Frequency (MHz)	Reading (dB μ V)	Position (V/H)	Height (m)	Correction Factor		Duty Cycle Correction(dB)	Result Value		
				Ant Factor (dB)	Cable (dB)		Limit (dB μ V/m)	Result (dB μ V/m)	Margin (dB)
PEAK(RBW: 1 MHz VBW: 3 MHz)									
5350.00	45.05	H	1.6	31.63	-26.63		74.00	50.05	23.95
5350.00	45.05	V	1.5	31.63	-26.63		74.00	50.05	23.95
AV(RBW: 1 MHz VBW: 3 MHz)									
5350.00	33.67	H	1.6	31.63	-26.63	0.74	54.00	39.41	14.59
5350.00	33.74	V	1.6	31.63	-26.63	0.74	54.00	39.48	14.52
5372.00	34.37	V	1.6	31.64	-26.63	0.74	54.00	40.12	13.88
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11 n HT20- CH 64(5 320 MHz)								
	*The TX signal wasn't detected from 3th harmonics.								
	*Checked in all 3 axis and the maximum measured data were reported.(Worst data is Z axis of position)								
	*Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Duty Cycle Correction								

Test Data(802.11n HT20 5500)

Test Date : 15-Aug-21

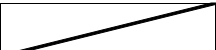
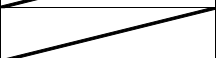
Measurement Distance : 3 m

Frequency (MHz)	Reading (dB μ V)	Position (V/H)	Height (m)	Correction Factor		Duty Cycle Correction(dB)	Result Value		
				Ant Factor (dB)	Cable (dB)		Limit (dB μ V/m)	Result (dB μ V/m)	Margin (dB)
PEAK(RBW: 1 MHz VBW: 3 MHz)									
5470.00	44.31	H	1.6	31.67	-26.69		74.00	49.29	24.71
5470.00	44.24	V	1.5	31.67	-26.69		74.00	49.22	24.78
AV(RBW: 1 MHz VBW: 3 MHz)									
5470.00	33.34	H	1.6	31.67	-26.69	0.74	54.00	39.06	14.94
5470.00	33.28	V	1.6	31.67	-26.69	0.74	54.00	39.00	15.00
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11 n HT20- CH 100(5 500 MHz)								
	*The TX signal wasn't detected from 3th harmonics.								
	*Checked in all 3 axis and the maximum measured data were reported.(Worst data is Z axis of position)								
	*Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Duty Cycle Correction								

Test Data(802.11n HT20 5700)

Test Date : 15-Aug-21

Measurement Distance : 3 m

Frequency (MHz)	Reading (dB μ V)	Position (V/H)	Height (m)	Correction Factor		Duty Cycle Correction(dB)	Result Value		
				Ant Factor (dB)	Cable (dB)		Limit (dB μ V/m)	Result (dB μ V/m)	Margin (dB)
PEAK(RBW: 1 MHz VBW: 3 MHz)									
5725.00	48.59	H	1.6	31.77	-26.77		74.00	53.60	20.40
5725.00	52.29	V	1.7	31.77	-26.77			74.00	57.30
AV(RBW: 1 MHz VBW: 3 MHz)									
5725.00	36.92	H	1.6	31.77	-26.77	0.74	54.00	42.67	11.33
5725.00	38.91	V	1.7	31.77	-26.77	0.74	54.00	44.66	9.34
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11 n HT20- CH 140(5 700 MHz)								
	*The TX signal wasn't detected from 3th harmonics.								
	*Checked in all 3 axis and the maximum measured data were reported.(Worst data is Z axis of position)								
	*Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Duty Cycle Correction								

Test Data(802.11n HT40 5190)

Test Date : 15-Aug-21

Measurement Distance : 3 m

Frequency (MHz)	Reading (dB μ V)	Position (V/H)	Height (m)	Correction Factor		Duty Cycle Correction(dB)	Result Value		
				Ant Factor (dB)	Cable (dB)		Limit (dB μ V/m)	Result (dB μ V/m)	Margin (dB)
PEAK(RBW: 1 MHz VBW: 3 MHz)									
5117.00	47.53	V	1.5	31.54	-26.64		74.00	52.43	21.57
5150.00	44.87	H	1.6	31.55	-26.64		74.00	49.78	24.22
5150.00	44.25	V	1.5	31.55	-26.64		74.00	49.16	24.84
AV(RBW: 1 MHz VBW: 3 MHz)									
5117.00	34.92	V	1.5	31.54	-26.64	1.47	54.00	41.28	12.72
5150.00	33.28	H	1.7	31.55	-26.64	1.47	54.00	39.66	14.34
5150.00	33.32	V	1.5	31.55	-26.64	1.47	54.00	39.70	14.30
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11 n40 – CH 38(5 190 MHz)								
	*The TX signal wasn't detected from 3th harmonics.								
	*Checked in all 3 axis and the maximum measured data were reported.(Worst data is Z axis of position)								
	*Total = Reading Value + Antenna Factor + Cable Loss – Amp Gain + Duty Cycle Correction								

Test Data(802.11n HT40 5230)

Test Date : 15-Aug-21

Measurement Distance : 3 m

Frequency (MHz)	Reading (dBμV)	Position (V/H)	Height (m)	Correction Factor		Duty Cycle Correction(dB)	Result Value		
				Ant Factor (dB)	Cable (dB)		Limit (dBμV/m)	Result (dBμV/m)	Margin (dB)
PEAK(RBW: 1 MHz VBW: 3 MHz)									
5350.00	43.87	H	1.7	31.63	-26.63		74.00	48.87	25.13
5350.00	44.63	V	1.6	31.63	-26.63		74.00	49.63	24.37
5739.00	47.21	V	1.6	31.78	-26.76		74.00	52.23	21.77
AV(RBW: 1 MHz VBW: 3 MHz)									
5350.00	33.72	H	1.7	31.63	-26.63	1.47	54.00	40.18	13.82
5350.00	33.76	V	1.6	31.63	-26.63	1.47	54.00	40.22	13.78
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11 n40 – CH 46(5 230 MHz)								
	*The TX signal wasn't detected from 3th harmonics.								
	*Checked in all 3 axis and the maximum measured data were reported.(Worst data is Z axis of position)								
	*Total = Reading Value + Antenna Factor + Cable Loss – Amp Gain + Duty Cycle Correction								

Test Data(802.11n HT40 5270)

Test Date : 15-Aug-21

Measurement Distance : 3 m

Frequency (MHz)	Reading (dB μ V)	Position (V/H)	Height (m)	Correction Factor		Duty Cycle Correction(dB)	Result Value		
				Ant Factor (dB)	Cable (dB)		Limit (dB μ V/m)	Result (dB μ V/m)	Margin (dB)
PEAK(RBW: 1 MHz VBW: 3 MHz)									
5150.00	43.71	V	1.5	31.55	-26.64		74.00	48.62	25.38
5150.00	44.25	H	1.6	31.55	-26.64			74.00	49.16
AV(RBW: 1 MHz VBW: 3 MHz)									
5150.00	33.09	H	1.7	31.55	-26.64	1.47	54.00	39.47	14.53
5150.00	33.15	V	1.5	31.55	-26.64	1.47	54.00	39.53	14.47
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11 n40 – CH 54(5 270 MHz)								
	*The TX signal wasn't detected from 3th harmonics. *Checked in all 3 axis and the maximum measured data were reported.(Worst data is Z axis of position) *Total = Reading Value + Antenna Factor + Cable Loss – Amp Gain + Duty Cycle Correction								

Test Data(802.11n HT40 5310)

Test Date : 15-Aug-21

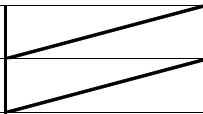
Measurement Distance : 3 m

Frequency (MHz)	Reading (dBμV)	Position (V/H)	Height (m)	Correction Factor		Duty Cycle Correction(dB)	Result Value		
				Ant Factor (dB)	Cable (dB)		Limit (dBμV/m)	Result (dBμV/m)	Margin (dB)
PEAK(RBW: 1 MHz VBW: 3 MHz)									
5350.00	45.75	H	1.6	31.63	-26.63		74.00	50.75	23.25
5350.00	45.27	V	1.6	31.63	-26.63		74.00	50.27	23.73
5382.00	46.62	H	1.6	31.64	-26.63		74.00	51.63	22.37
5382.00	48.27	V	1.6	31.64	-26.63		74.00	53.28	20.72
AV(RBW: 1 MHz VBW: 3 MHz)									
5350.00	34.04	H	1.6	31.63	-26.63	1.47	54.00	40.50	13.50
5350.00	34.12	V	1.6	31.63	-26.63	1.47	54.00	40.58	13.42
5382.00	35.25	H	1.6	31.64	-26.63	1.47	54.00	41.72	12.28
5382.00	36.18	V	1.6	31.64	-26.63	1.47	54.00	42.65	11.35
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11 n40 – CH 62(5 310 MHz)								
	*The TX signal wasn't detected from 3th harmonics.								
	*Checked in all 3 axis and the maximum measured data were reported.(Worst data is Z axis of position)								
	*Total = Reading Value + Antenna Factor + Cable Loss – Amp Gain + Duty Cycle Correction								

Test Data(802.11n HT40 5510)

Test Date : 15-Aug-21

Measurement Distance : 3 m

Frequency (MHz)	Reading (dBμV)	Position (V/H)	Height (m)	Correction Factor		Duty Cycle Correction(dB)	Result Value		
				Ant Factor (dB)	Cable (dB)		Limit (dBμV/m)	Result (dBμV/m)	Margin (dB)
PEAK(RBW: 1 MHz VBW: 3 MHz)									
5470.00	44.82	H	1.7	31.67	-26.69		74.00	49.80	24.20
5470.00	45.57	V	1.6	31.67	-26.69		74.00	50.55	23.45
AV(RBW: 1 MHz VBW: 3 MHz)									
5470.00	33.48	H	1.7	31.67	-26.69	1.47	54.00	39.93	14.07
5470.00	33.53	V	1.6	31.67	-26.69	1.47	54.00	39.98	14.02
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11 n40 – CH 102(5 510 MHz)								
	*The TX signal wasn't detected from 3th harmonics.								
	*Checked in all 3 axis and the maximum measured data were reported.(Worst data is Z axis of position)								
	*Total = Reading Value + Antenna Factor + Cable Loss – Amp Gain + Duty Cycle Correction								

Test Data(802.11n HT40 5670)

Test Date : 15-Aug-21

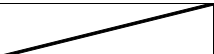
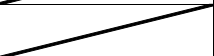
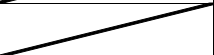
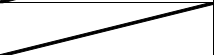
Measurement Distance : 3 m

Frequency (MHz)	Reading (dB μ V)	Position (V/H)	Height (m)	Correction Factor		Duty Cycle Correction(dB)	Result Value		
				Ant Factor (dB)	Cable (dB)		Limit (dB μ V/m)	Result (dB μ V/m)	Margin (dB)
PEAK(RBW: 1 MHz VBW: 3 MHz)									
5725.00	44.63	H	1.7	31.77	-26.77		74.00	49.64	24.36
5725.00	45.44	V	1.6	31.77	-26.77		74.00	50.45	23.55
5742.00	48.21	H	1.7	31.78	-26.76		74.00	53.23	20.77
5742.00	48.50	V	1.6	31.78	-26.76		74.00	53.52	20.48
AV(RBW: 1 MHz VBW: 3 MHz)									
5725.00	33.72	H	1.7	31.77	-26.77	1.47	54.00	40.19	13.81
5725.00	33.75	V	1.6	31.77	-26.77	1.47	54.00	40.22	13.78
5742.00	35.35	H	1.7	31.78	-26.76	1.47	54.00	41.84	12.16
5742.00	36.04	V	1.6	31.78	-26.76	1.47	54.00	42.53	11.47
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11 n40 – CH 134(5 670 MHz)								
	*The TX signal wasn't detected from 3th harmonics.								
	*Checked in all 3 axis and the maximum measured data were reported.(Worst data is Z axis of position)								
	*Total = Reading Value + Antenna Factor + Cable Loss – Amp Gain + Duty Cycle Correction								

Test Data(802.11ac VHT20 5180)

Test Date : 16-Aug-21

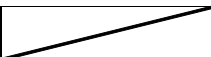
Measurement Distance : 3 m

Frequency (MHz)	Reading (dB μ V)	Position (V/H)	Height (m)	Correction Factor		Duty Cycle Correction(dB)	Result Value		
				Ant Factor (dB)	Cable (dB)		Limit (dB μ V/m)	Result (dB μ V/m)	Margin (dB)
PEAK(RBW: 1 MHz VBW: 3 MHz)									
5124.00	45.17	H	1.5	31.54	-26.64		74.00	50.07	23.93
4990.00	47.42	V	1.6	31.46	-26.66		74.00	52.22	21.78
5150.00	44.86	H	1.5	31.55	-26.64		74.00	49.77	24.23
5150.00	45.71	V	1.6	31.55	-26.64		74.00	50.62	23.38
AV(RBW: 1 MHz VBW: 3 MHz)									
5128.00	34.07	H	1.6	31.54	-26.64	1.47	54.00	40.44	13.56
5128.00	34.37	V	1.6	31.54	-26.64	1.47	54.00	40.74	13.26
5150.00	33.35	H	1.6	31.55	-26.64	1.47	54.00	39.73	14.27
5150.00	33.36	V	1.6	31.55	-26.64	1.47	54.00	39.74	14.26
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11 VHT20 – CH 36(5 180 MHz)								
	*The TX signal wasn't detected from 3th harmonics.								
	*Checked in all 3 axis and the maximum measured data were reported.(Worst data is Z axis of position)								
	*Total = Reading Value + Antenna Factor + Cable Loss – Amp Gain + Duty Cycle Correction								

Test Data(802.11ac VHT20 5240)

Test Date : 16-Aug-21

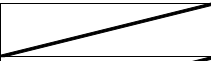
Measurement Distance : 3 m

Frequency (MHz)	Reading (dB μ V)	Position (V/H)	Height (m)	Correction Factor		Duty Cycle Correction(dB)	Result Value		
				Ant Factor (dB)	Cable (dB)		Limit (dB μ V/m)	Result (dB μ V/m)	Margin (dB)
PEAK(RBW: 1 MHz VBW: 3 MHz)									
5350.00	44.96	H	1.6	31.63	-26.63		74.00	49.96	24.04
5350.00	44.47	V	1.7	31.63	-26.63		74.00	49.47	24.53
AV(RBW: 1 MHz VBW: 3 MHz)									
5350.00	33.68	H	1.6	31.63	-26.63	0.78	54.00	39.46	14.54
5350.00	33.75	V	1.7	31.63	-26.63	0.78	54.00	39.53	14.47
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11 ac VHT20- CH 48(5 240 MHz)								
	*The TX signal wasn't detected from 3th harmonics.								
	*Checked in all 3 axis and the maximum measured data were reported.(Worst data is Z axis of position)								
	*Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Duty Cycle Correction								

Test Data(802.11ac VHT20 5320)

Test Date : 16-Aug-21

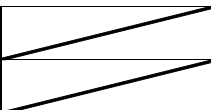
Measurement Distance : 3 m

Frequency (MHz)	Reading (dB μ V)	Position (V/H)	Height (m)	Correction Factor		Duty Cycle Correction(dB)	Result Value		
				Ant Factor (dB)	Cable (dB)		Limit (dB μ V/m)	Result (dB μ V/m)	Margin (dB)
PEAK(RBW: 1 MHz VBW: 3 MHz)									
5350.00	45.83	H	1.6	31.63	-26.63		74.00	50.83	23.17
5350.00	44.35	V	1.5	31.63	-26.63		74.00	49.35	24.65
AV(RBW: 1 MHz VBW: 3 MHz)									
5350.00	33.74	H	1.6	31.63	-26.63	0.78	54.00	39.52	14.48
5350.00	33.80	V	1.6	31.63	-26.63	0.78	54.00	39.58	14.42
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11 ac VHT20- CH 64(5 320 MHz)								
	*The TX signal wasn't detected from 3th harmonics.								
	*Checked in all 3 axis and the maximum measured data were reported.(Worst data is Z axis of position)								
	*Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Duty Cycle Correction								

Test Data(802.11ac VHT20 5500)

Test Date : 16-Aug-21

Measurement Distance : 3 m

Frequency (MHz)	Reading (dB μ V)	Position (V/H)	Height (m)	Correction Factor		Duty Cycle Correction(dB)	Result Value		
				Ant Factor (dB)	Cable (dB)		Limit (dB μ V/m)	Result (dB μ V/m)	Margin (dB)
PEAK(RBW: 1 MHz VBW: 3 MHz)									
5470.00	43.94	H	1.6	31.67	-26.69		74.00	48.92	25.08
5470.00	44.89	V	1.5	31.67	-26.69		74.00	49.87	24.13
AV(RBW: 1 MHz VBW: 3 MHz)									
5470.00	33.44	H	1.6	31.67	-26.69	0.78	54.00	39.20	14.80
5470.00	33.45	V	1.6	31.67	-26.69	0.78	54.00	39.21	14.79
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11 ac VHT20- CH 100(5 500 MHz) *The TX signal wasn't detected from 3th harmonics. *Checked in all 3 axis and the maximum measured data were reported.(Worst data is Z axis of position) *Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Duty Cycle Correction								

Test Data(802.11ac VHT20 5700)

Test Date : 16-Aug-21

Measurement Distance : 3 m

Frequency (MHz)	Reading (dBμV)	Position (V/H)	Height (m)	Correction Factor		Duty Cycle Correction(dB)	Result Value		
				Ant Factor (dB)	Cable (dB)		Limit (dBμV/m)	Result (dBμV/m)	Margin (dB)
PEAK(RBW: 1 MHz VBW: 3 MHz)									
5725.00	50.11	H	1.6	31.77	-26.77		74.00	55.12	18.88
5725.00	49.53	V	1.7	31.77	-26.77		74.00	54.54	19.46
AV(RBW: 1 MHz VBW: 3 MHz)									
5725.00	36.65	H	1.6	31.77	-26.77	0.78	54.00	42.44	11.56
5725.00	37.35	V	1.7	31.77	-26.77	0.78	54.00	43.14	10.86
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11 ac VHT20- CH 140(5 700 MHz)								
	*The TX signal wasn't detected from 3th harmonics.								
	*Checked in all 3 axis and the maximum measured data were reported.(Worst data is Z axis of position)								
	*Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + Duty Cycle Correction								

Test Data(802.11n HT40 5190)

Test Date : 17-Aug-21

Measurement Distance : 3 m

Frequency (MHz)	Reading (dBμV)	Position (V/H)	Height (m)	Correction Factor		Duty Cycle Correction(dB)	Result Value		
				Ant Factor (dB)	Cable (dB)		Limit (dBμV/m)	Result (dBμV/m)	Margin (dB)
PEAK(RBW: 1 MHz VBW: 3 MHz)									
5117.00	47.53	V	1.5	31.54	-26.64		74.00	52.43	21.57
5150.00	44.87	H	1.6	31.55	-26.64		74.00	49.78	24.22
5150.00	44.25	V	1.5	31.55	-26.64		74.00	49.16	24.84
AV(RBW: 1 MHz VBW: 3 MHz)									
5117.00	34.92	V	1.5	31.54	-26.64	1.46	54.00	41.27	12.73
5150.00	33.28	H	1.7	31.55	-26.64	1.46	54.00	39.65	14.35
5150.00	33.32	V	1.5	31.55	-26.64	1.46	54.00	39.69	14.31
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11 n40 – CH 38(5 190 MHz)								
	*The TX signal wasn't detected from 3th harmonics.								
	*Checked in all 3 axis and the maximum measured data were reported.(Worst data is Z axis of position)								
	*Total = Reading Value + Antenna Factor + Cable Loss – Amp Gain + Duty Cycle Correction								

Test Data(802.11n HT40 5230)

Test Date : 17-Aug-21

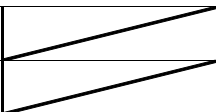
Measurement Distance : 3 m

Frequency (MHz)	Reading (dBμV)	Position (V/H)	Height (m)	Correction Factor		Duty Cycle Correction(dB)	Result Value		
				Ant Factor (dB)	Cable (dB)		Limit (dBμV/m)	Result (dBμV/m)	Margin (dB)
PEAK(RBW: 1 MHz VBW: 3 MHz)									
5350.00	43.87	H	1.7	31.63	-26.63		74.00	48.87	25.13
5350.00	44.63	V	1.6	31.63	-26.63		74.00	49.63	24.37
5739.00	47.21	V	1.6	31.78	-26.76		74.00	52.23	21.77
AV(RBW: 1 MHz VBW: 3 MHz)									
5350.00	33.72	H	1.7	31.63	-26.63	1.46	54.00	40.17	13.83
5350.00	33.76	V	1.6	31.63	-26.63	1.46	54.00	40.21	13.79
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11 n40 – CH 46(5 230 MHz)								
	*The TX signal wasn't detected from 3th harmonics.								
	*Checked in all 3 axis and the maximum measured data were reported.(Worst data is Z axis of position)								
	*Total = Reading Value + Antenna Factor + Cable Loss – Amp Gain + Duty Cycle Correction								

Test Data(802.11n HT40 5270)

Test Date : 17-Aug-21

Measurement Distance : 3 m

Frequency (MHz)	Reading (dB μV)	Position (V/H)	Height (m)	Correction Factor		Duty Cycle Correction(dB)	Result Value		
				Ant Factor (dB)	Cable (dB)		Limit (dB μV /m)	Result (dB μV /m)	Margin (dB)
PEAK(RBW: 1 MHz VBW: 3 MHz)									
5150.00	43.71	V	1.5	31.55	-26.64		74.00	48.62	25.38
5150.00	44.25	H	1.6	31.55	-26.64		74.00	49.16	24.84
AV(RBW: 1 MHz VBW: 3 MHz)									
5150.00	33.09	H	1.7	31.55	-26.64	1.46	54.00	39.46	14.54
5150.00	33.15	V	1.5	31.55	-26.64	1.46	54.00	39.52	14.48
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11 n40 – CH 54(5 270 MHz)								
	*The TX signal wasn't detected from 3th harmonics.								
	*Checked in all 3 axis and the maximum measured data were reported.(Worst data is Z axis of position)								
	*Total = Reading Value + Antenna Factor + Cable Loss – Amp Gain + Duty Cycle Correction								

Test Data(802.11n HT40 5310)

Test Date : 17-Aug-21

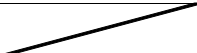
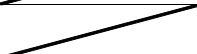
Measurement Distance : 3 m

Frequency (MHz)	Reading (dB μ V)	Position (V/H)	Height (m)	Correction Factor		Duty Cycle Correction(dB)	Result Value		
				Ant Factor (dB)	Cable (dB)		Limit (dB μ V/m)	Result (dB μ V/m)	Margin (dB)
PEAK(RBW: 1 MHz VBW: 3 MHz)									
5350.00	45.75	H	1.6	31.63	-26.63		74.00	50.75	23.25
5350.00	45.27	V	1.6	31.63	-26.63		74.00	50.27	23.73
5382.00	46.62	H	1.6	31.64	-26.63		74.00	51.63	22.37
5382.00	48.27	V	1.6	31.64	-26.63		74.00	53.28	20.72
AV(RBW: 1 MHz VBW: 3 MHz)									
5350.00	34.04	H	1.6	31.63	-26.63	1.46	54.00	40.49	13.51
5350.00	34.12	V	1.6	31.63	-26.63	1.46	54.00	40.57	13.43
5382.00	35.25	H	1.6	31.64	-26.63	1.46	54.00	41.71	12.29
5382.00	36.18	V	1.6	31.64	-26.63	1.46	54.00	42.64	11.36
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11 n40 – CH 62(5 310 MHz)								
	*The TX signal wasn't detected from 3th harmonics.								
	*Checked in all 3 axis and the maximum measured data were reported.(Worst data is Z axis of position)								
	*Total = Reading Value + Antenna Factor + Cable Loss – Amp Gain + Duty Cycle Correction								

Test Data(802.11n HT40 5510)

Test Date : 17-Aug-21

Measurement Distance : 3 m

Frequency (MHz)	Reading (dBμV)	Position (V/H)	Height (m)	Correction Factor		Duty Cycle Correction(dB)	Result Value		
				Ant Factor (dB)	Cable (dB)		Limit (dBμV/m)	Result (dBμV/m)	Margin (dB)
PEAK(RBW: 1 MHz VBW: 3 MHz)									
5470.00	44.82	H	1.7	31.67	-26.69		74.00	49.80	24.20
5470.00	45.57	V	1.6	31.67	-26.69			74.00	50.55
AV(RBW: 1 MHz VBW: 3 MHz)									
5470.00	33.48	H	1.7	31.67	-26.69	1.46	54.00	39.92	14.08
5470.00	33.53	V	1.6	31.67	-26.69	1.46	54.00	39.97	14.03
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11 n40 – CH 102(5 510 MHz)								
	*The TX signal wasn't detected from 3th harmonics.								
	*Checked in all 3 axis and the maximum measured data were reported.(Worst data is Z axis of position)								
	*Total = Reading Value + Antenna Factor + Cable Loss – Amp Gain + Duty Cycle Correction								

Test Data(802.11ac VHT40 5670)

Test Date : 17-Aug-21

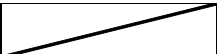
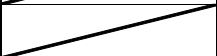
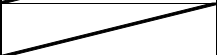
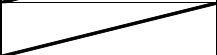
Measurement Distance : 3 m

Frequency (MHz)	Reading (dB μ V)	Position (V/H)	Height (m)	Correction Factor		Duty Cycle Correction(dB)	Result Value		
				Ant Factor (dB)	Cable (dB)		Limit (dB μ V/m)	Result (dB μ V/m)	Margin (dB)
PEAK(RBW: 1 MHz VBW: 3 MHz)									
5725.00	45.24	H	1.7	31.77	-26.77		74.00	50.25	23.75
5725.00	44.08	V	1.6	31.77	-26.77		74.00	49.09	24.91
5743.00	48.59	H	1.7	31.78	-26.76		74.00	53.61	20.39
5741.00	48.41	V	1.6	31.78	-26.76		74.00	53.43	20.57
AV(RBW: 1 MHz VBW: 3 MHz)									
5725.00	33.74	H	1.7	31.77	-26.77	1.46	54.00	40.20	13.80
5725.00	33.75	V	1.6	31.77	-26.77	1.46	54.00	40.21	13.79
5742.00	34.76	H	1.7	31.78	-26.76	1.46	54.00	41.23	12.77
5742.00	35.76	V	1.6	31.78	-26.76	1.46	54.00	42.23	11.77
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11 ac VHT40 – CH 134(5 670 MHz)								
	*The TX signal wasn't detected from 3th harmonics.								
	*Checked in all 3 axis and the maximum measured data were reported.(Worst data is Z axis of position)								
	*Total = Reading Value + Antenna Factor + Cable Loss – Amp Gain + Duty Cycle Correction								

Test Data(802.11ac VHT80 5210)

Test Date : 18-Aug-21

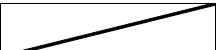
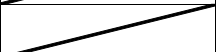
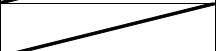
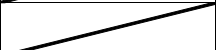
Measurement Distance : 3 m

Frequency (MHz)	Reading (dBμV)	Position (V/H)	Height (m)	Correction Factor		Duty Cycle Correction(dB)	Result Value		
				Ant Factor (dB)	Cable (dB)		Limit (dBμV/m)	Result (dBμV/m)	Margin (dB)
PEAK(RBW: 1 MHz VBW: 3 MHz)									
5138.00	55.14	H	1.6	31.54	-26.64		74.00	60.05	13.95
5138.00	57.18	V	1.5	31.54	-26.64		74.00	62.09	11.91
5150.00	47.33	H	1.5	31.55	-26.64		74.00	52.24	21.76
5150.00	47.53	V	1.5	31.55	-26.64		74.00	52.44	21.56
AV(RBW: 1 MHz VBW: 3 MHz)									
5138.00	38.48	H	1.7	31.54	-26.64	0.80	54.00	44.18	9.82
5138.00	38.92	V	1.5	31.54	-26.64	0.80	54.00	44.62	9.38
5150.00	33.78	H	1.7	31.55	-26.64	0.80	54.00	39.49	14.51
5150.00	34.00	V	1.5	31.55	-26.64	0.80	54.00	39.71	14.29
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11 ac VHT80 – CH 42(5 210 MHz)								
	*The TX signal wasn't detected from 3th harmonics.								
	*Checked in all 3 axis and the maximum measured data were reported.(Worst data is Z axis of position)								
	*Total = Reading Value + Antenna Factor + Cable Loss – Amp Gain + Duty Cycle Correction								

Test Data(802.11ac VHT80 5290)

Test Date : 18-Aug-21

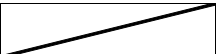
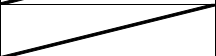
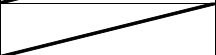
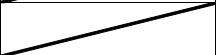
Measurement Distance : 3 m

Frequency (MHz)	Reading (dB μ V)	Position (V/H)	Height (m)	Correction Factor		Duty Cycle Correction(dB)	Result Value		
				Ant Factor (dB)	Cable (dB)		Limit (dB μ V/m)	Result (dB μ V/m)	Margin (dB)
PEAK(RBW: 1 MHz VBW: 3 MHz)									
5360.00	54.62	H	1.6	31.63	-26.63		74.00	59.62	14.38
5361.00	56.90	V	1.5	31.63	-26.63		74.00	61.90	12.10
5350.00	46.08	H	1.5	31.63	-26.63		74.00	51.08	22.92
5350.00	47.34	V	1.5	31.63	-26.63		74.00	52.34	21.66
AV(RBW: 1 MHz VBW: 3 MHz)									
5350.00	33.97	H	1.7	31.63	-26.63	0.80	54.00	39.76	14.24
5350.00	34.19	V	1.5	31.63	-26.63	0.80	54.00	39.98	14.02
5361.00	38.23	H	1.6	31.63	-26.63	0.80	54.00	44.03	9.97
5361.00	40.15	V	1.7	31.63	-26.63	0.80	54.00	45.95	8.05
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11 ac VHT80 – CH 58(5 290 MHz)								
	*The TX signal wasn't detected from 3th harmonics.								
	*Checked in all 3 axis and the maximum measured data were reported.(Worst data is Z axis of position)								
	*Total = Reading Value + Antenna Factor + Cable Loss – Amp Gain + Duty Cycle Correction								

Test Data(802.11ac VHT80 5530)

Test Date : 18-Aug-21

Measurement Distance : 3 m

Frequency (MHz)	Reading (dB μ V)	Position (V/H)	Height (m)	Correction Factor		Duty Cycle Correction(dB)	Result Value		
				Ant Factor (dB)	Cable (dB)		Limit (dB μ V/m)	Result (dB μ V/m)	Margin (dB)
PEAK(RBW: 1 MHz VBW: 3 MHz)									
5457.00	54.72	H	1.5	31.67	-26.68		74.00	59.71	14.29
5457.00	57.54	V	1.5	31.67	-26.68		74.00	62.53	11.47
5470.00	44.50	H	1.5	31.67	-26.69		74.00	49.48	24.52
5470.00	45.55	V	1.5	31.67	-26.69		74.00	50.53	23.47
AV(RBW: 1 MHz VBW: 3 MHz)									
5457.00	38.83	H	1.5	31.67	-26.68	0.80	54.00	44.61	9.39
5457.00	40.08	V	1.5	31.67	-26.68	0.80	54.00	45.86	8.14
5470.00	33.42	H	1.6	31.67	-26.69	0.80	54.00	39.20	14.80
5470.00	33.49	V	1.5	31.67	-26.69	0.80	54.00	39.27	14.73
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11 ac VHT80 – CH 106(5 530 MHz)								
	*The TX signal wasn't detected from 3th harmonics.								
	*Checked in all 3 axis and the maximum measured data were reported.(Worst data is Z axis of position)								
	*Total = Reading Value + Antenna Factor + Cable Loss – Amp Gain + Duty Cycle Correction								

Test Data(802.11ac VHT80 5610)

Test Date : 18-Aug-21

Measurement Distance : 3 m

Frequency (MHz)	Reading (dBμV)	Position (V/H)	Height (m)	Correction Factor		Duty Cycle Correction(dB)	Result Value		
				Ant Factor (dB)	Cable (dB)		Limit (dBμV/m)	Result (dBμV/m)	Margin (dB)
PEAK(RBW: 1 MHz VBW: 3 MHz)									
5850.00	44.96	H	1.6	31.82	-26.69		74.00	50.09	23.91
5850.00	44.56	V	1.5	31.82	-26.69			74.00	49.69
AV(RBW: 1 MHz VBW: 3 MHz)									
5850.00	33.92	H	1.7	31.82	-26.69	0.80	54.00	39.85	14.15
5850.00	34.00	V	1.5	31.82	-26.69	0.80	54.00	39.93	14.07
Remark	H : Horizontal, V : Vertical TEST MODE : 802.11 ac VHT80 – CH 122(5 610 MHz)								
	*The TX signal wasn't detected from 3th harmonics.								
	*Checked in all 3 axis and the maximum measured data were reported.(Worst data is Z axis of position)								
	*Total = Reading Value + Antenna Factor + Cable Loss – Amp Gain + Duty Cycle Correction								

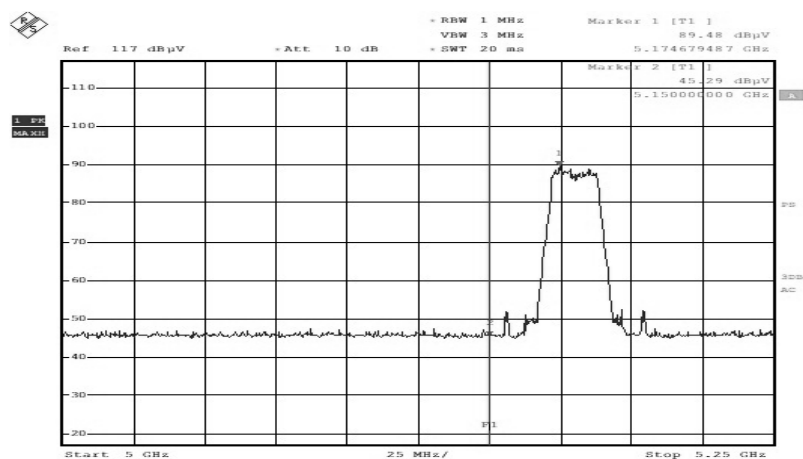
9.5-1 Restricted Band Edges

*802.11a Mode (was1)

Band Edges(CH 36)

Detector mode:Peak

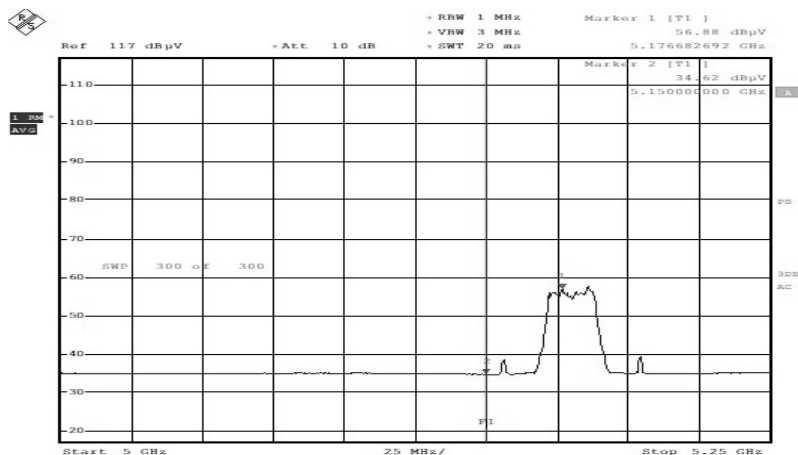
Polarity:Horizontal



ESTR-21-00231

Detector mode:Average

Polarity:Horizontal

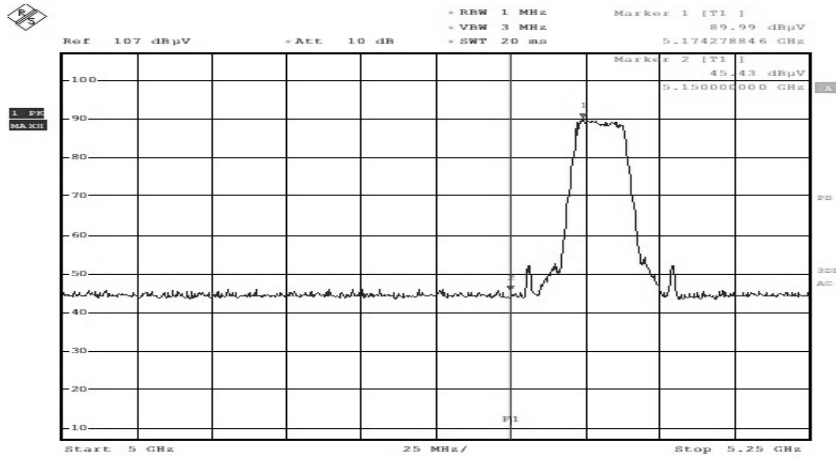


ESTR-21-00231

Band Edges(CH 36)

Detector mode:Peak

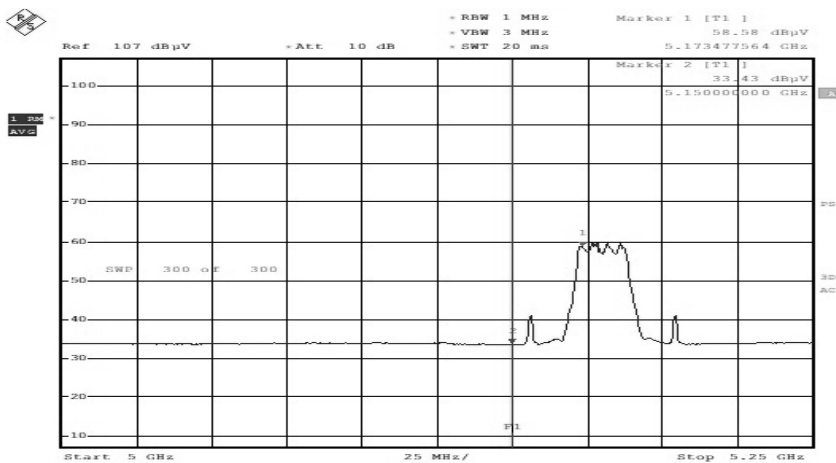
Polarity:Vertical



ESTR-21-00231

Detector mode:Average

Polarity:Vertical

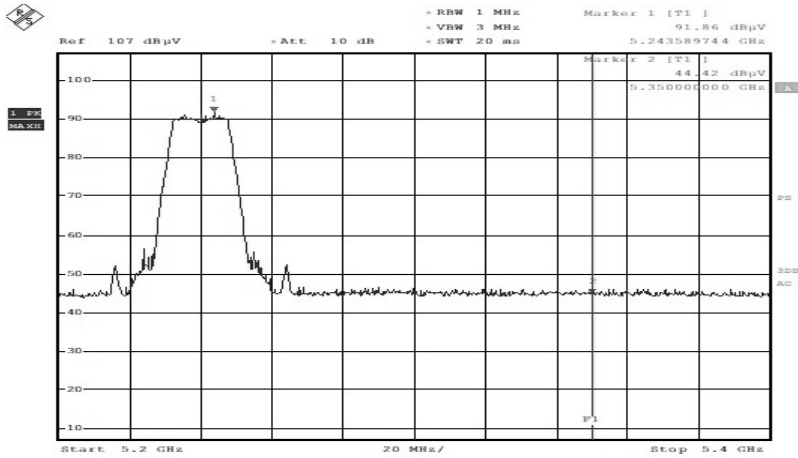


ESTR-21-00231

Band Edges(CH 48)

Detector mode:Peak

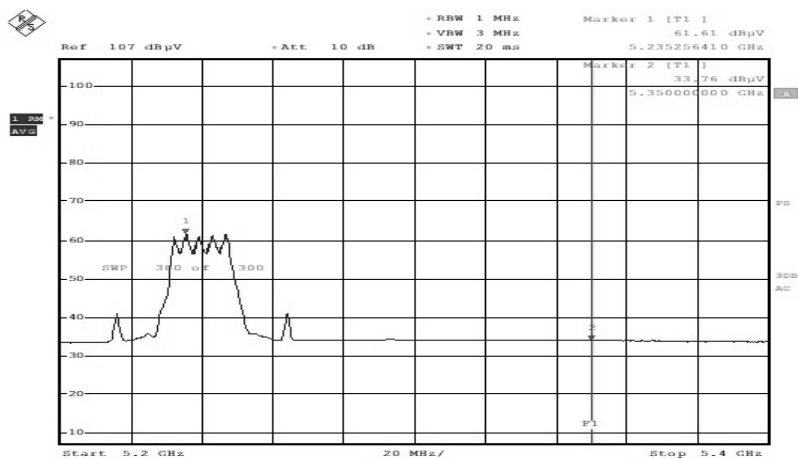
Polarity:Horizontal



ESTR-21-00231

Detector mode:Average

Polarity:Horizontal

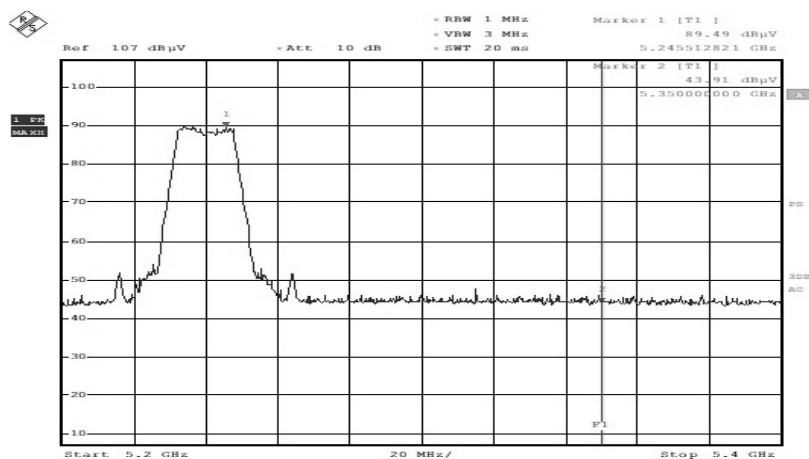


ESTR-21-00231

Band Edges(CH 48)

Detector mode:Peak

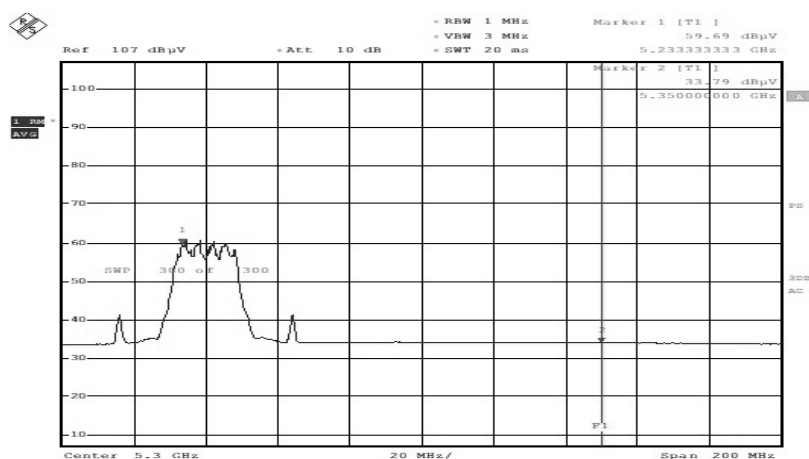
Polarity:Vertical



ESTR-21-00231

Detector mode:Average

Polarity:Vertical



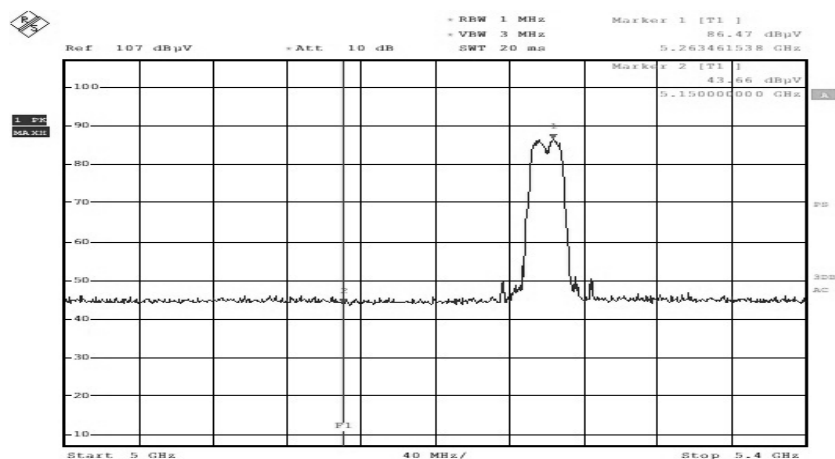
ESTR-21-00231

*802.11a Mode(was2)

Band Edges(CH Low)

Detector mode:Peak

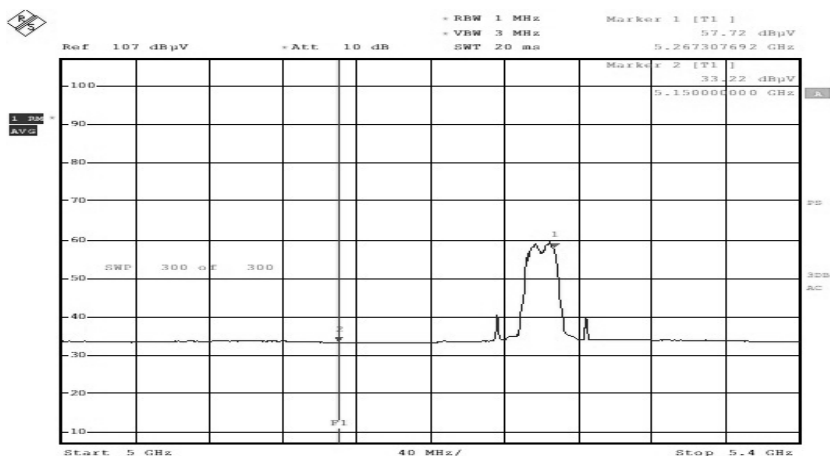
Polarity:Horizontal



ESTR-21-00231

Detector mode:Average

Polarity:Horizontal

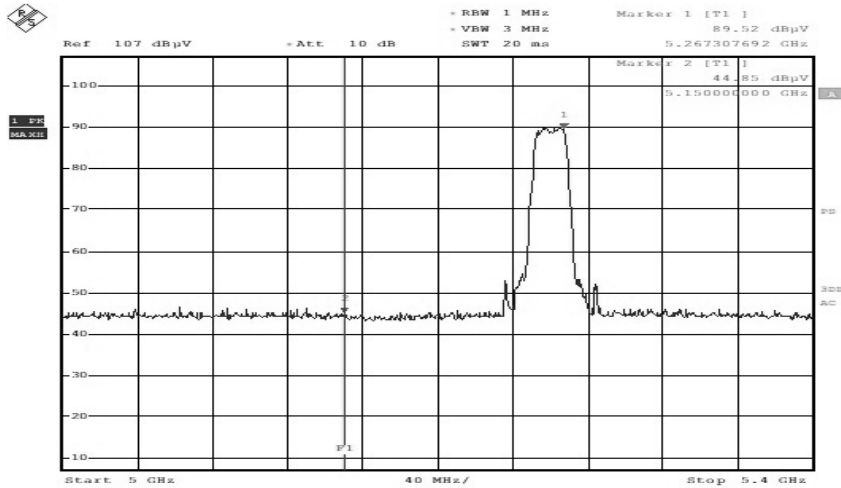


ESTR-21-00231

Band Edges(CH Low)

Detector mode:Peak

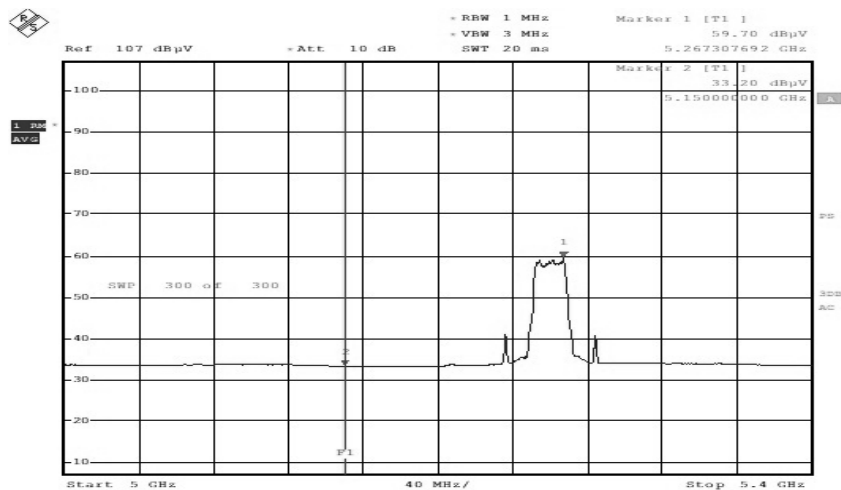
Polarity:Vertical



ESTR-21-00231

Detector mode:Average

Polarity:Vertical

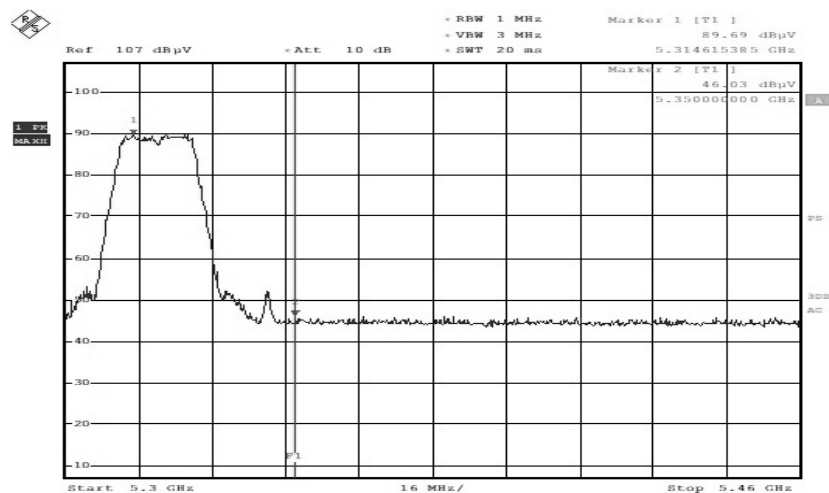


ESTR-21-00231

Band Edges(CH High)

Detector mode:Peak

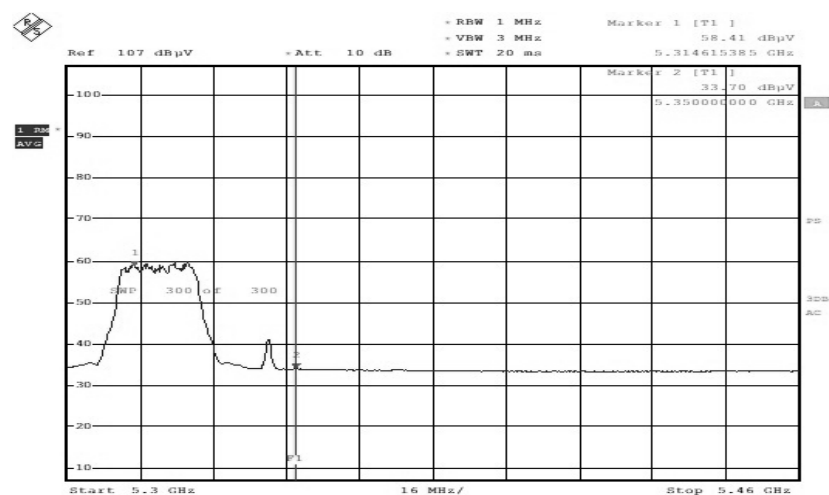
Polarity:Horizontal



ESTR-21-00231

Detector mode:Average

Polarity:Horizontal

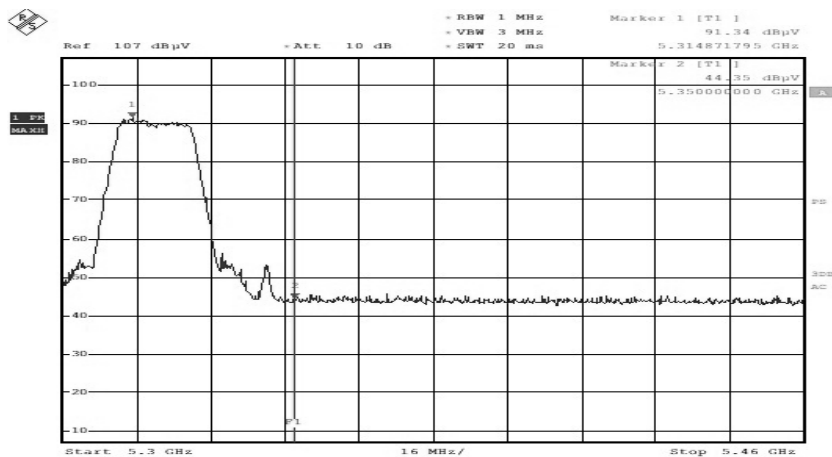


ESTR-21-00231

Band Edges(CH High)

Detector mode:Peak

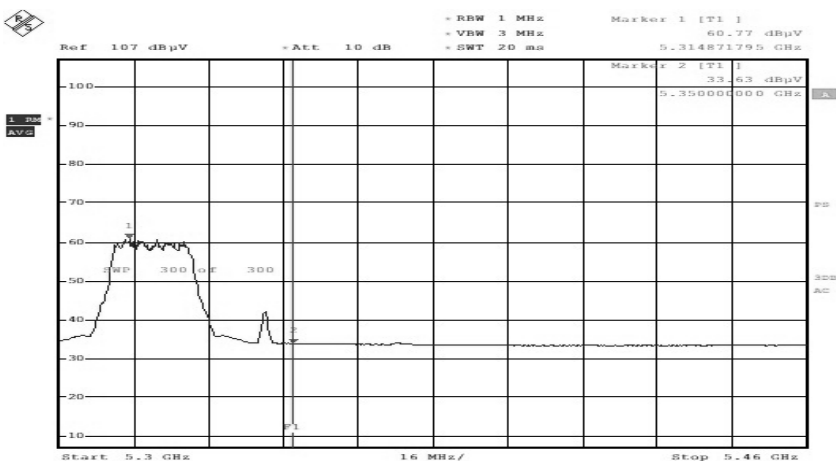
Polarity:Vertical



ESTR-21-00231

Detector mode:Average

Polarity:Vertical



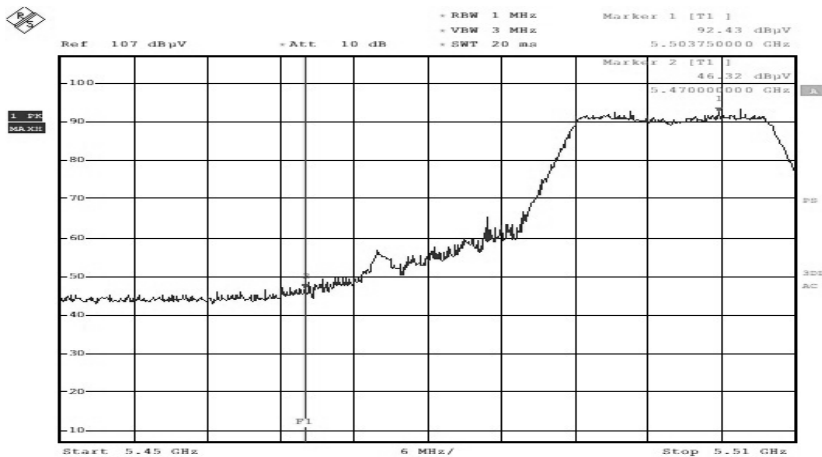
ESTR-21-00231

*802.11a Mode(was3)

Band Edges(CH Low)

Detector mode:Peak

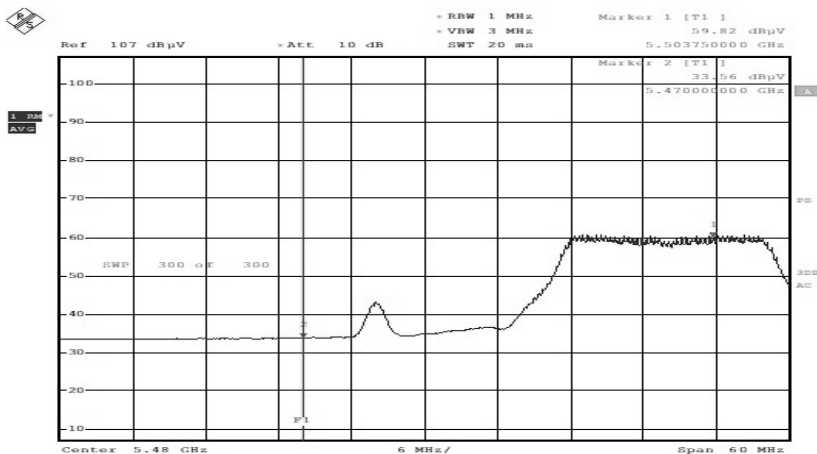
Polarity:Horizontal



ESTR-21-00231

Detector mode:Average

Polarity:Horizontal

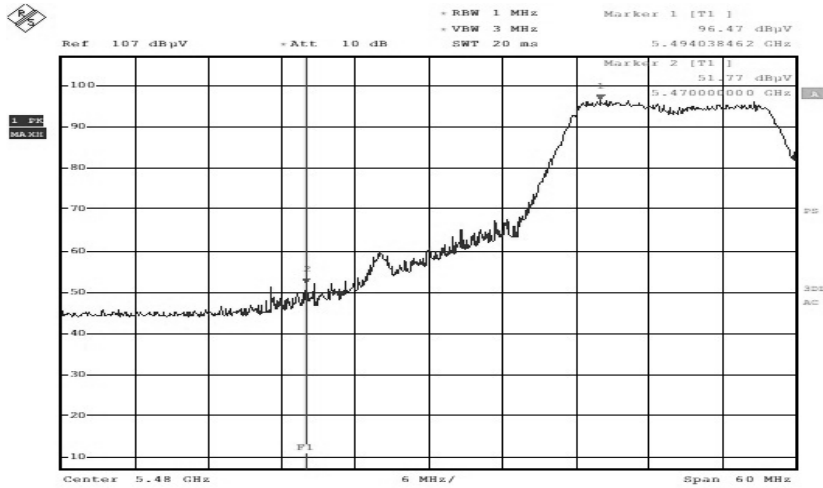


ESTR-21-00231

Band Edges(CH Low)

Detector mode:Peak

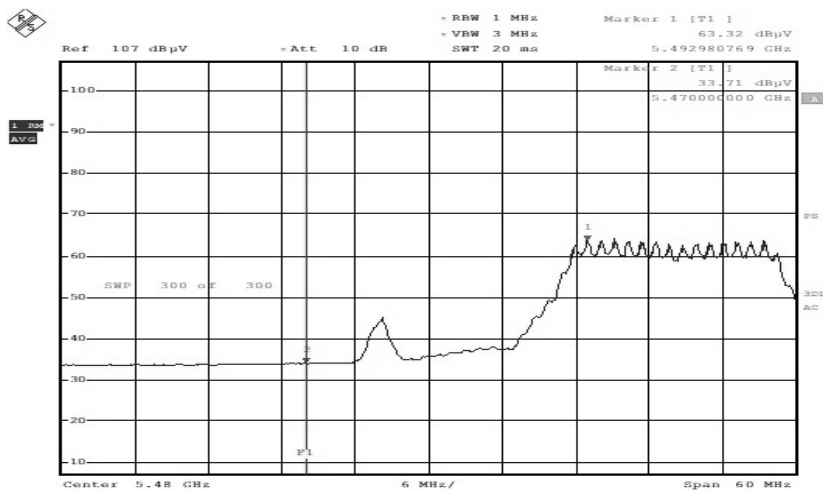
Polarity:Vertical



ESTR-21-00231

Detector mode:Average

Polarity:Vertical

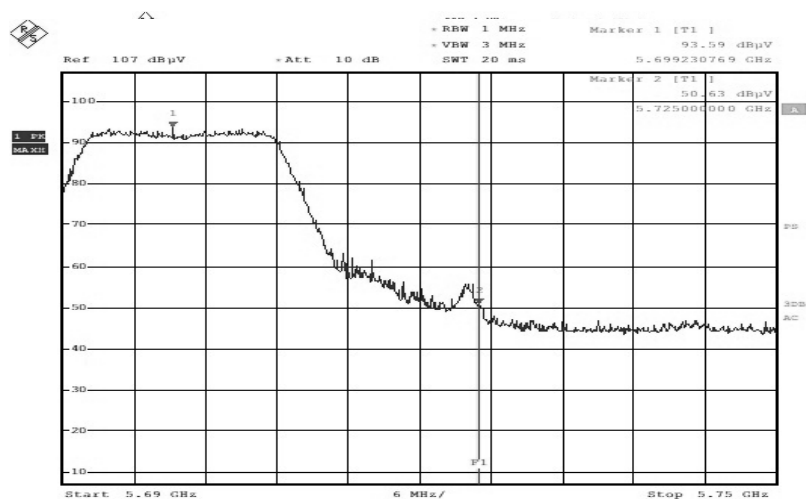


ESTR-21-00231

Band Edges(CH High)

Detector mode:Peak

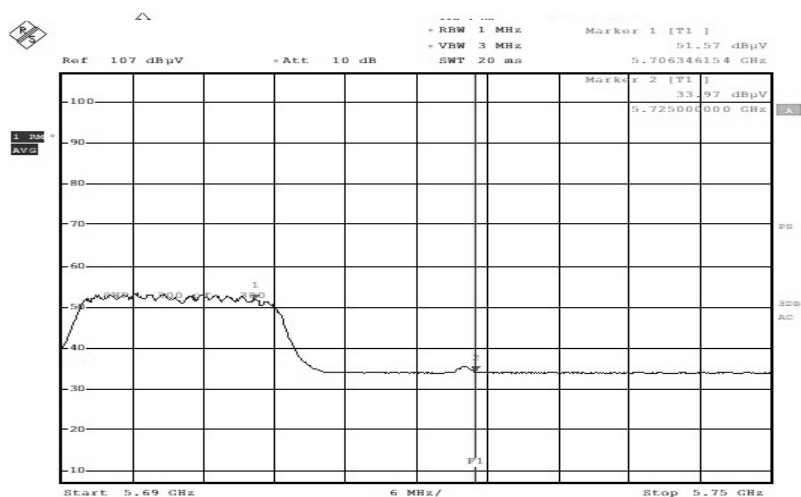
Polarity:Horizontal



ESTR-21-00231

Detector mode:Average

Polarity:Horizontal

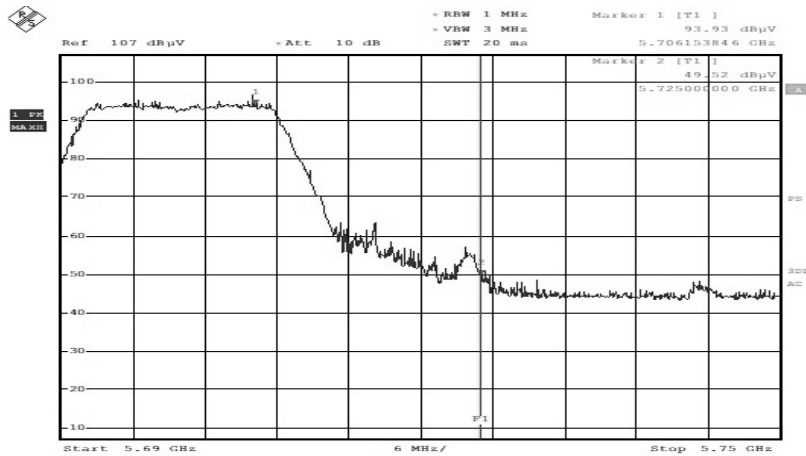


ESTR-21-00231

Band Edges(CH High)

Detector mode:Peak

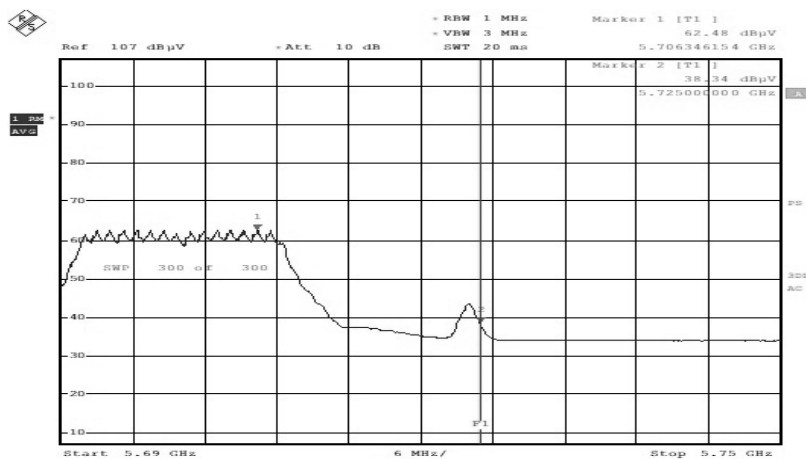
Polarity:Vertical



ESTR-21-00231

Detector mode:Average

Polarity:Vertical



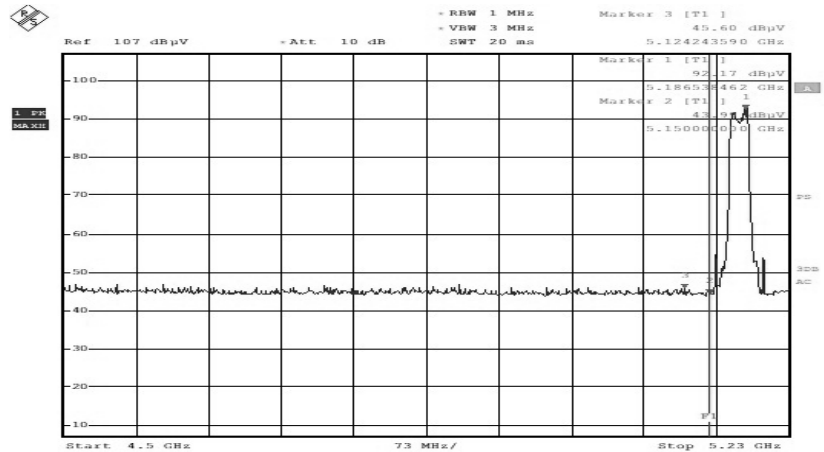
ESTR-21-00231

*802.11n HT20 Mode(was1)

Band Edges(CH Low)

Detector mode:Peak

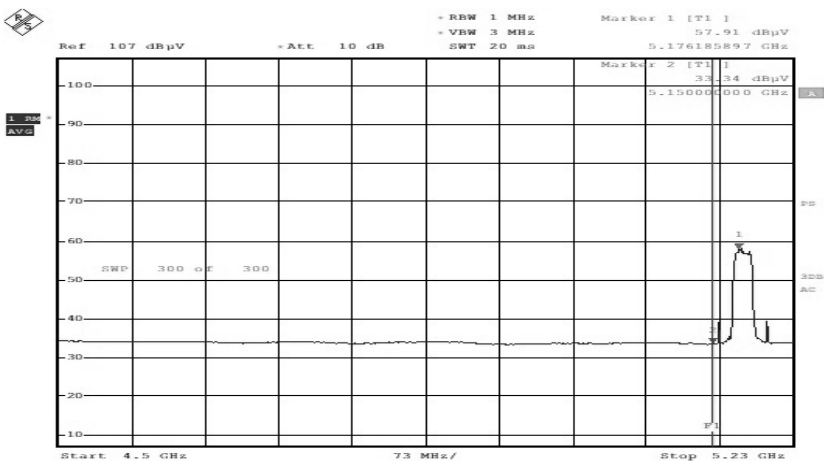
Polarity:Horizontal



ESTR-21-00231

Detector mode:Average

Polarity:Horizontal

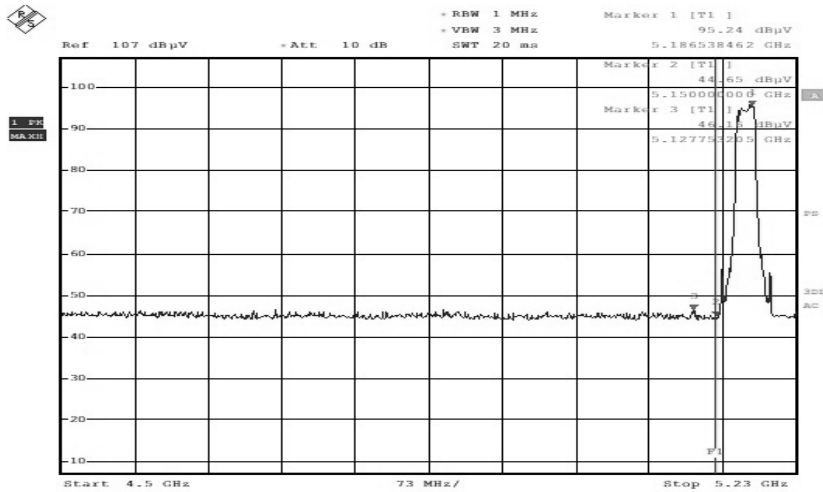


ESTR-21-00231

Band Edges(CH Low)

Detector mode:Peak

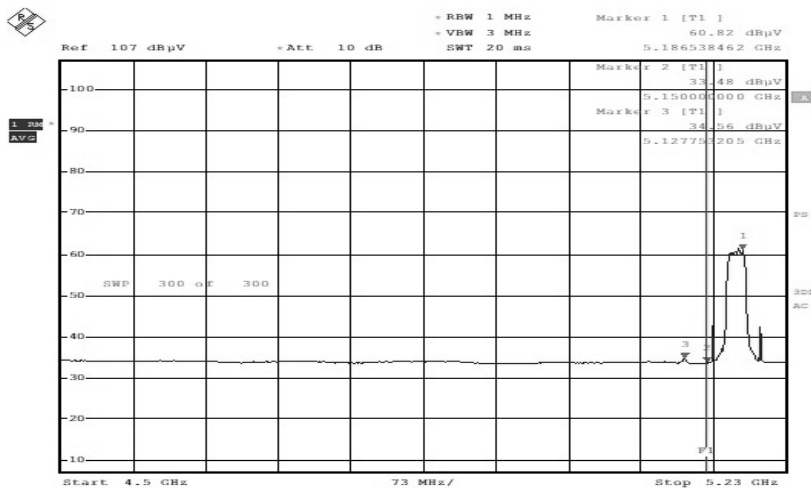
Polarity:Vertical



ESTR-21-00231

Detector mode:Average

Polarity:Vertical

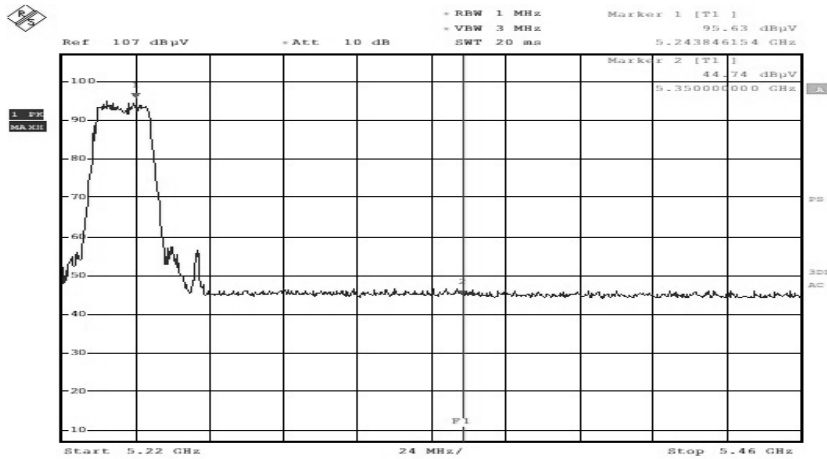


ESTR-21-00231

Band Edges(CH High)

Detector mode:Peak

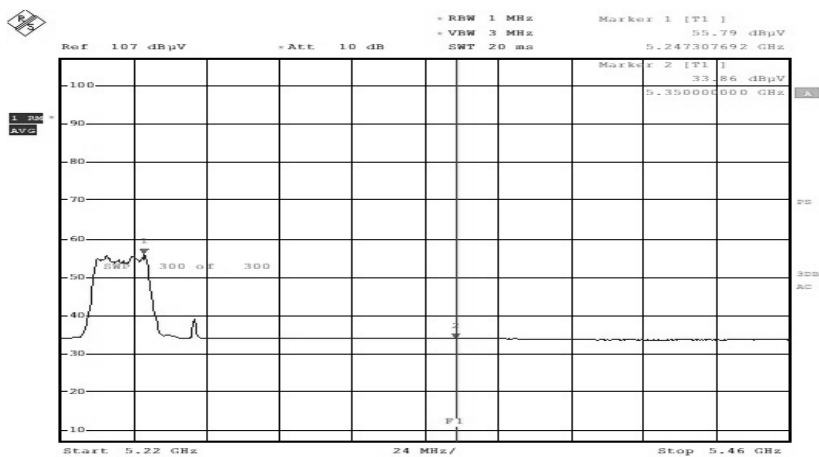
Polarity:Horizontal



ESTR-21-00231

Detector mode:Average

Polarity:Horizontal

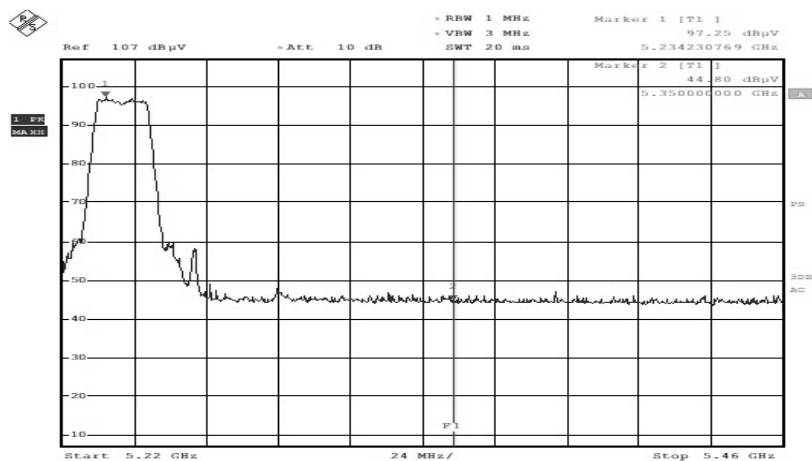


ESTR-21-00231

Band Edges(CH High)

Detector mode:Peak

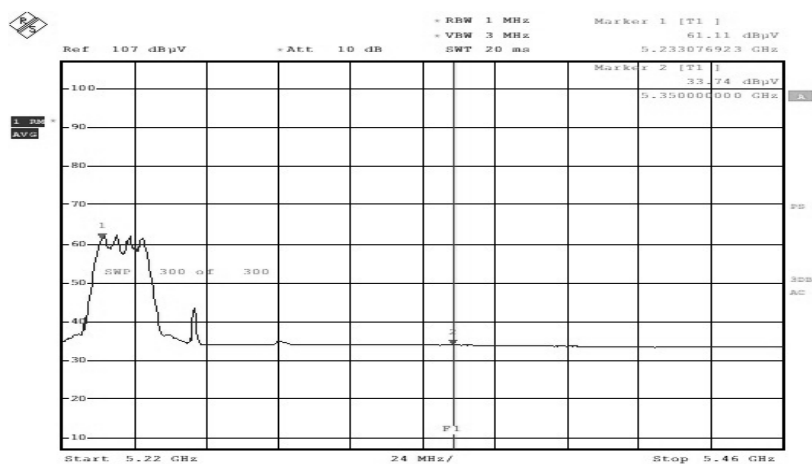
Polarity:Vertical



ESTR-21-00231

Detector mode:Average

Polarity:Vertical



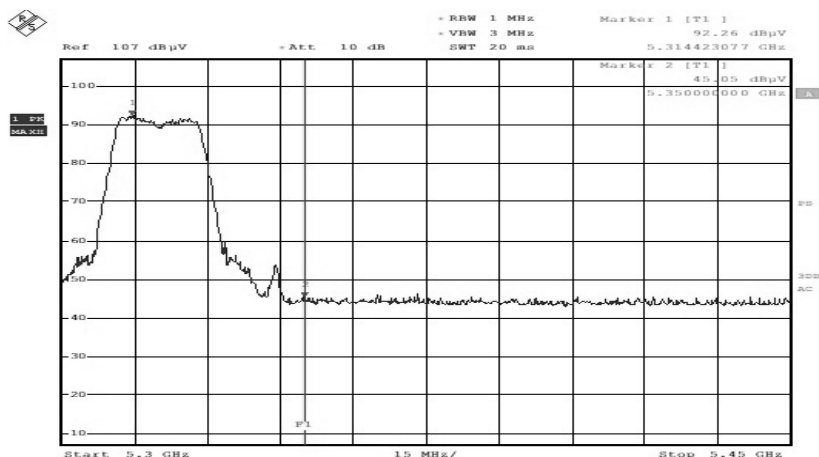
ESTR-21-00231

*802.11n HT20 Mode(was2)

Band Edges(CH Low)

Detector mode:Peak

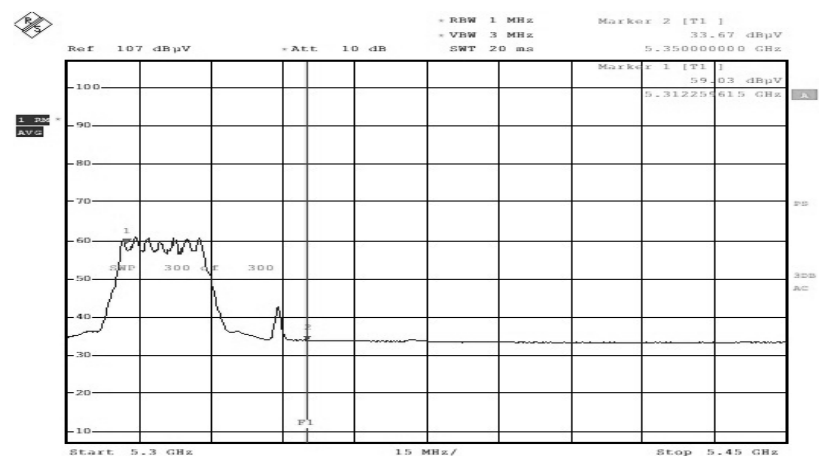
Polarity:Horizontal



ESTR-21-00231

Detector mode:Average

Polarity:Horizontal

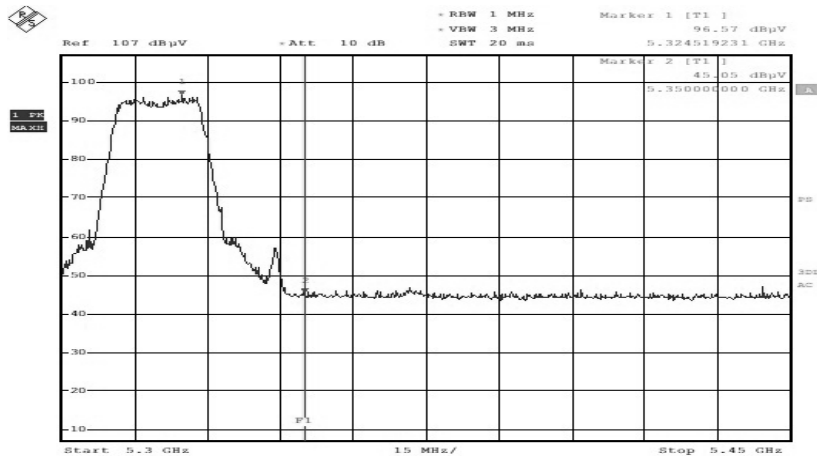


ESTR-21-00231

Band Edges(CH Low)

Detector mode:Peak

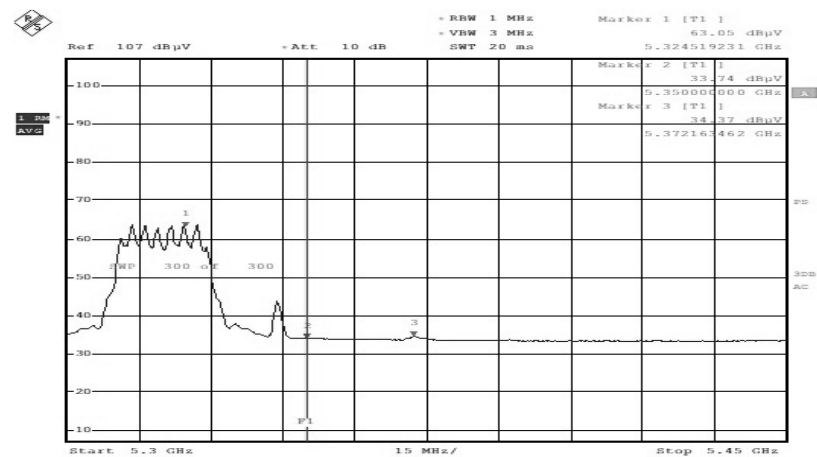
Polarity:Vertical



ESTR-21-00231

Detector mode:Average

Polarity:Vertical

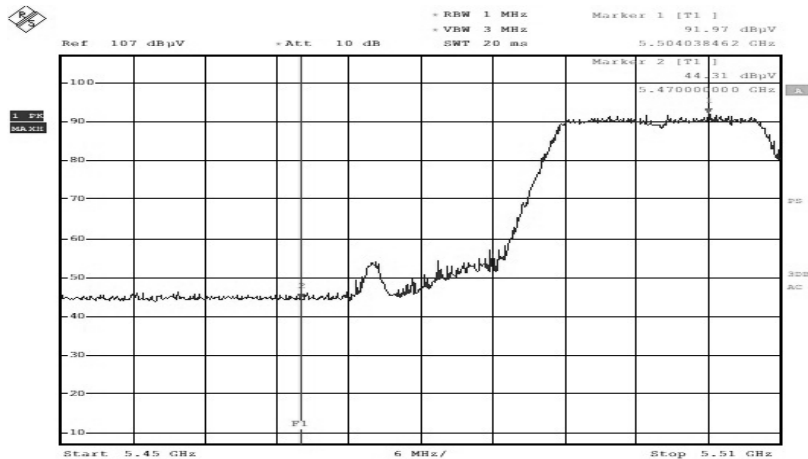


ESTR-21-00231

Band Edges(CH High)

Detector mode:Peak

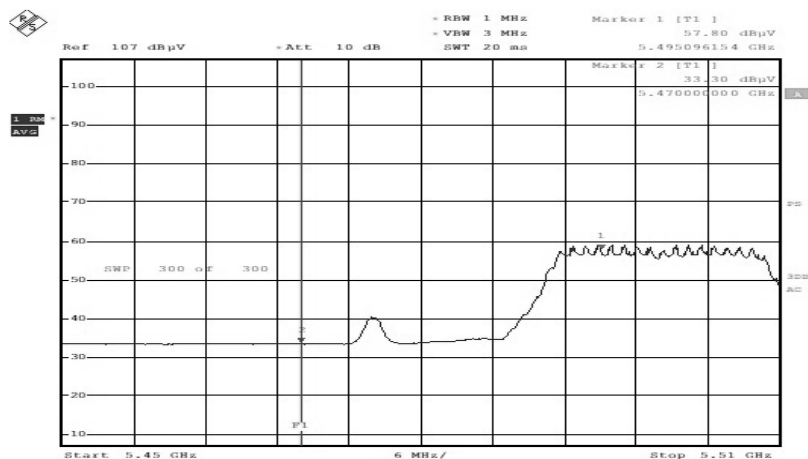
Polarity:Horizontal



ESTR-21-00231

Detector mode:Average

Polarity:Horizontal

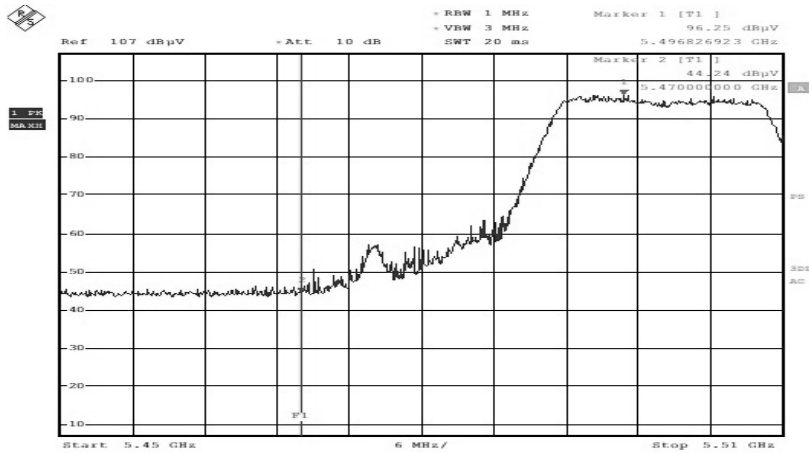


ESTR-21-00231

Band Edges(CH High)

Detector mode:Peak

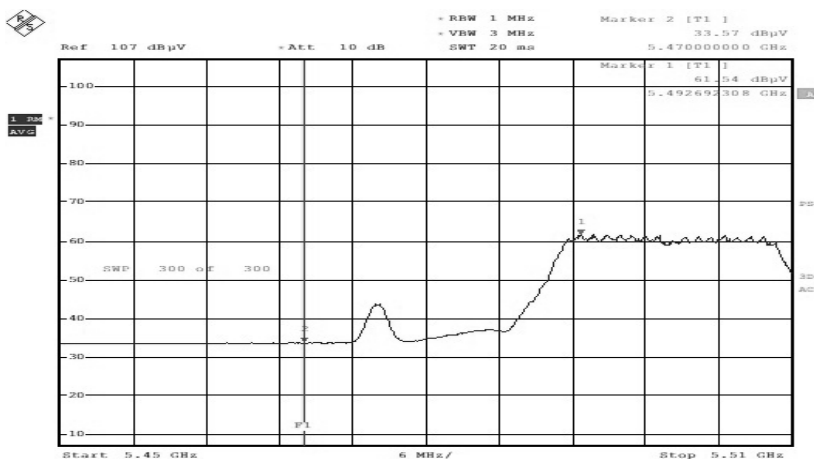
Polarity:Vertical



ESTR-21-00231

Detector mode:Average

Polarity:Vertical

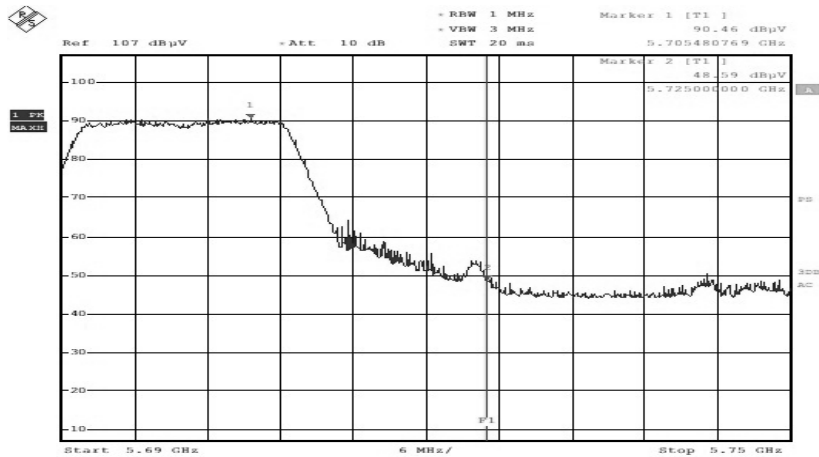


ESTR-21-00231

Band Edges(CH High)

Detector mode:Peak

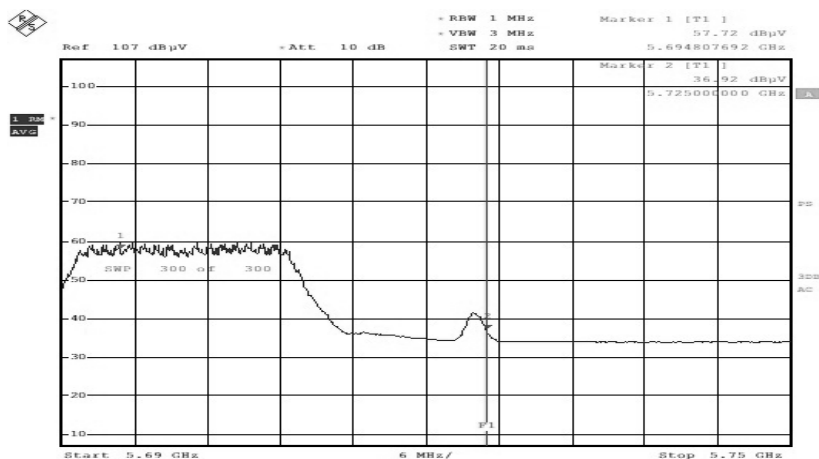
Polarity:Horizontal



ESTR-21-00231

Detector mode:Average

Polarity:Horizontal

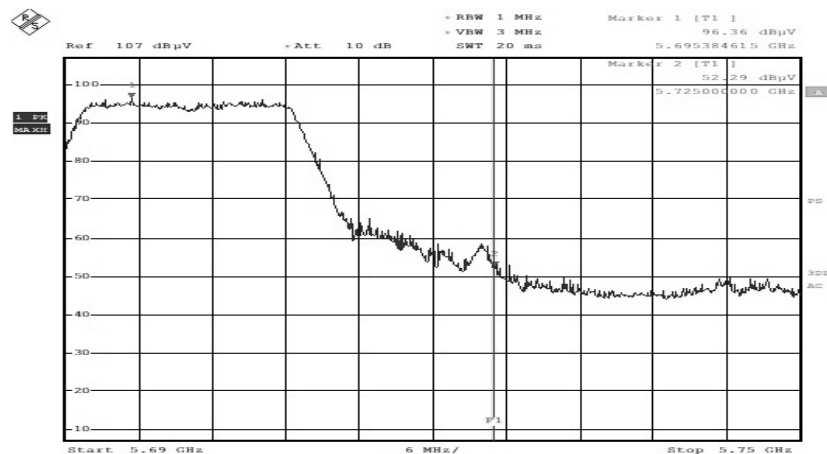


ESTR-21-00231

Band Edges(CH High)

Detector mode:Peak

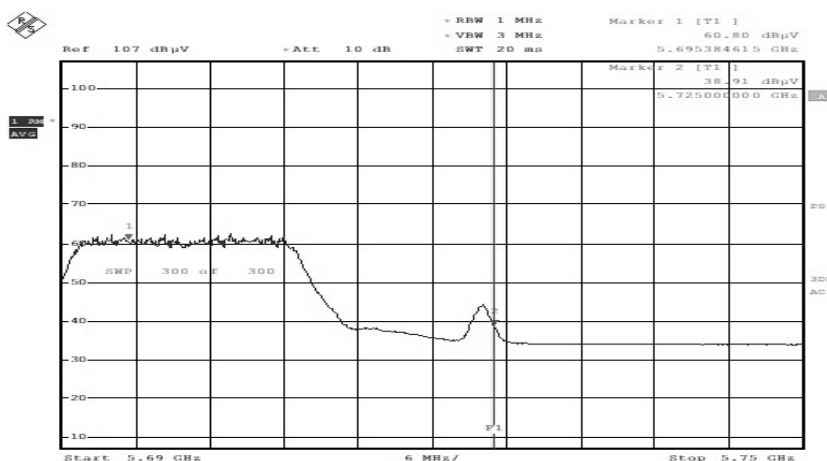
Polarity:Vertical



ESTR-21-00231

Detector mode:Average

Polarity:Vertical



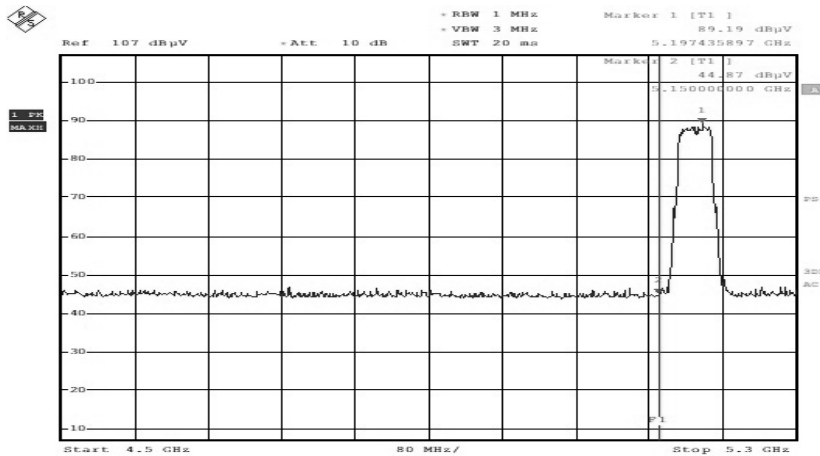
ESTR-21-00231

*802.11n HT40 Mode(was1)

Band Edges(CH Low)

Detector mode:Peak

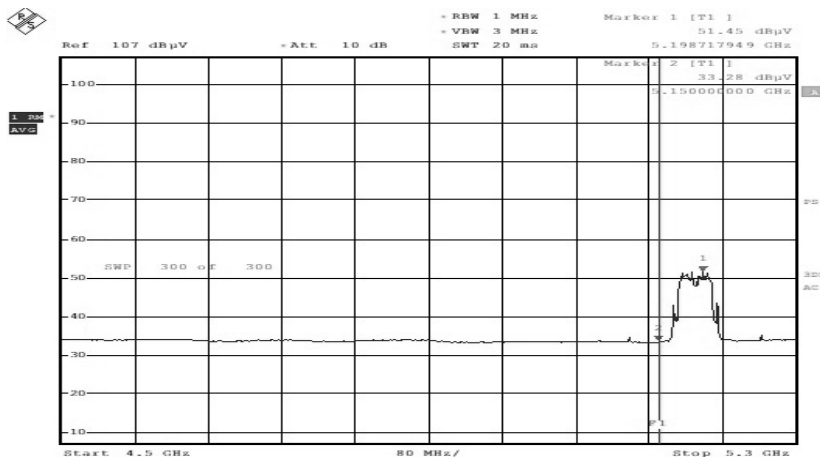
Polarity:Horizontal



ESTR-21-00231

Detector mode:Average

Polarity:Horizontal

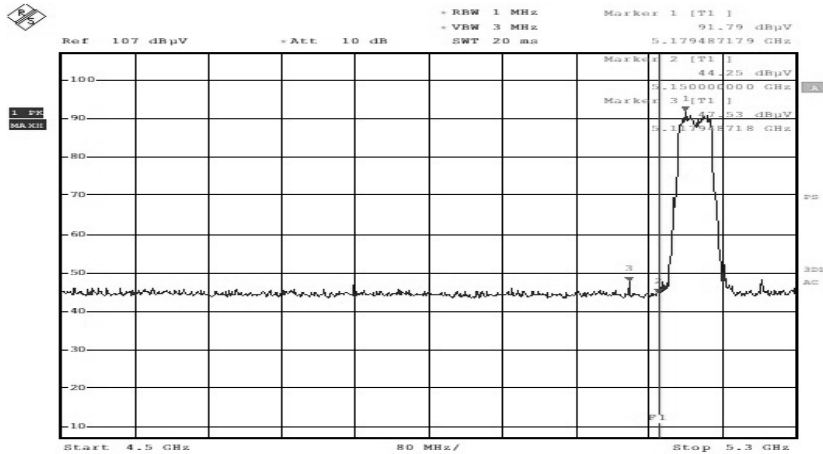


ESTR-21-00231

Band Edges(CH Low)

Detector mode:Peak

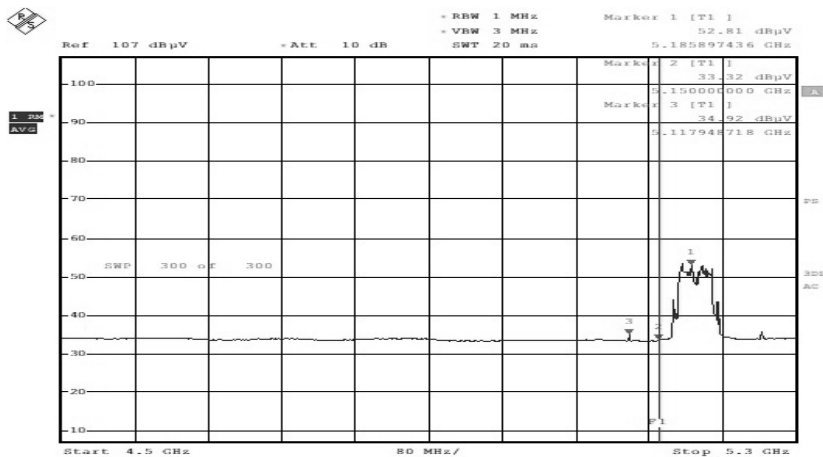
Polarity:Vertical



ESTR-21-00231

Detector mode:Average

Polarity:Vertical

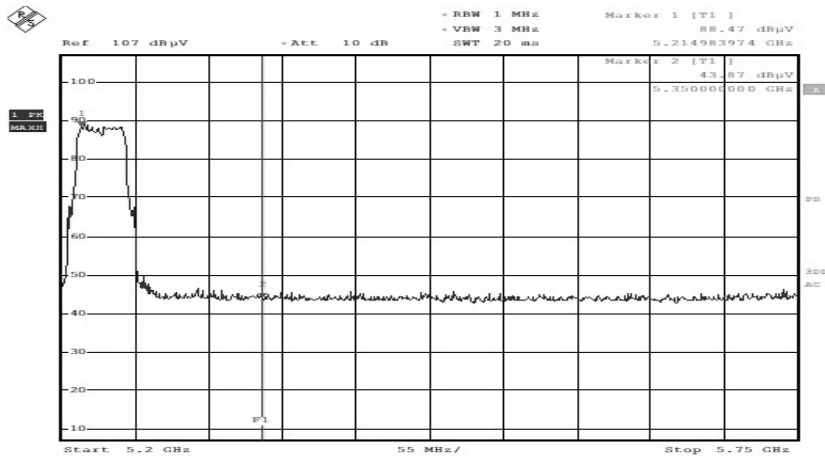


ESTR-21-00231

Band Edges(CH High)

Detector mode:Peak

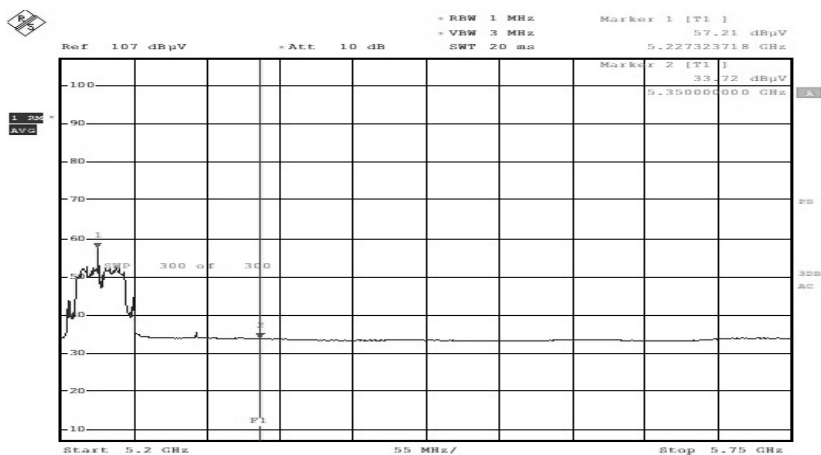
Polarity:Horizontal



ESTR-21-00231

Detector mode:Average

Polarity:Horizontal

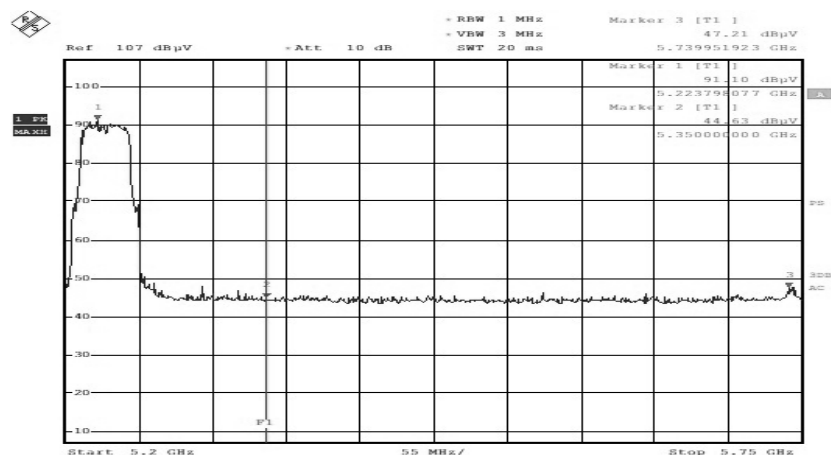


ESTR-21-00231

Band Edges(CH High)

Detector mode:Peak

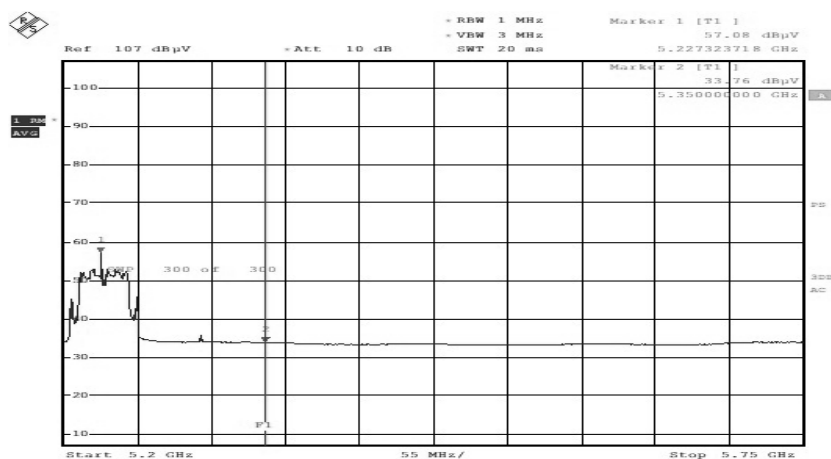
Polarity:Vertical



ESTR-21-00231

Detector mode:Average

Polarity:Vertical



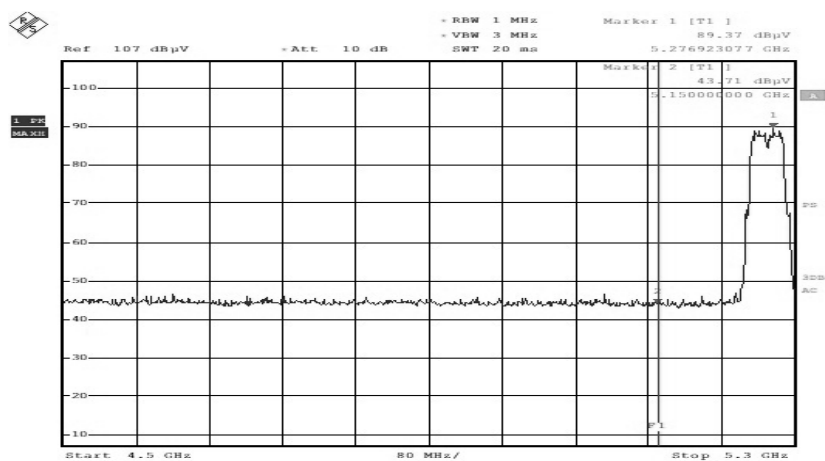
ESTR-21-00231

*802.11n HT40 Mode(was3)

Band Edges(CH Low)

Detector mode:Peak

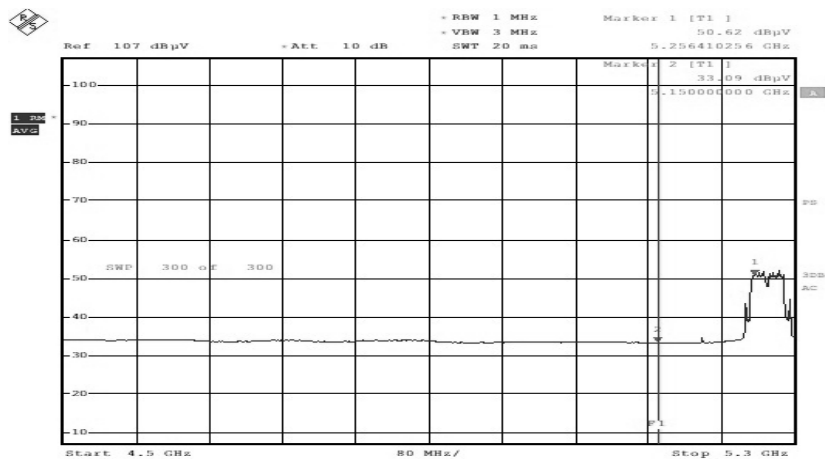
Polarity:Horizontal



ESTR-21-00231

Detector mode:Average

Polarity:Horizontal

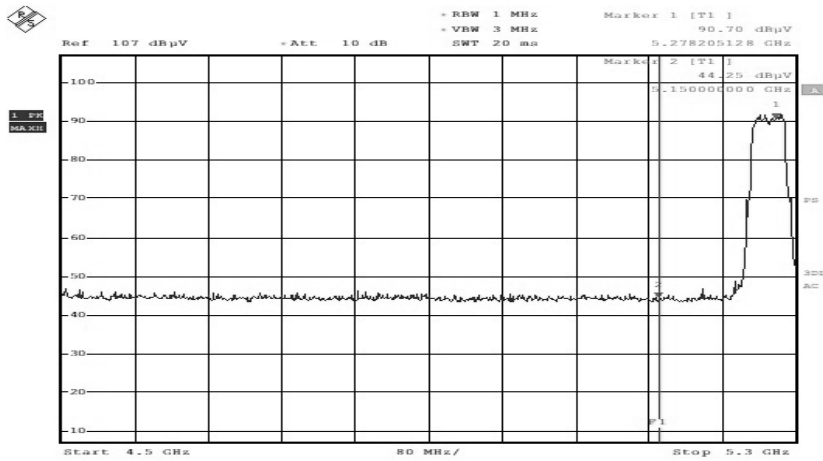


ESTR-21-00231

Band Edges(CH Low)

Detector mode:Peak

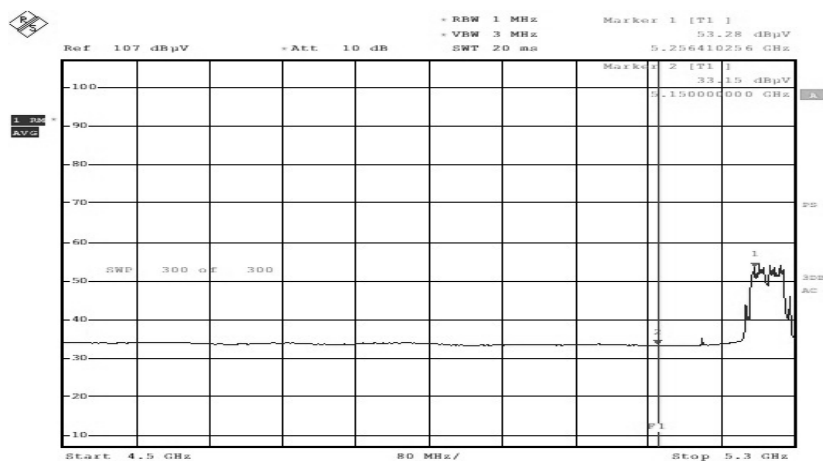
Polarity:Vertical



ESTR-21-00231

Detector mode:Average

Polarity:Vertical

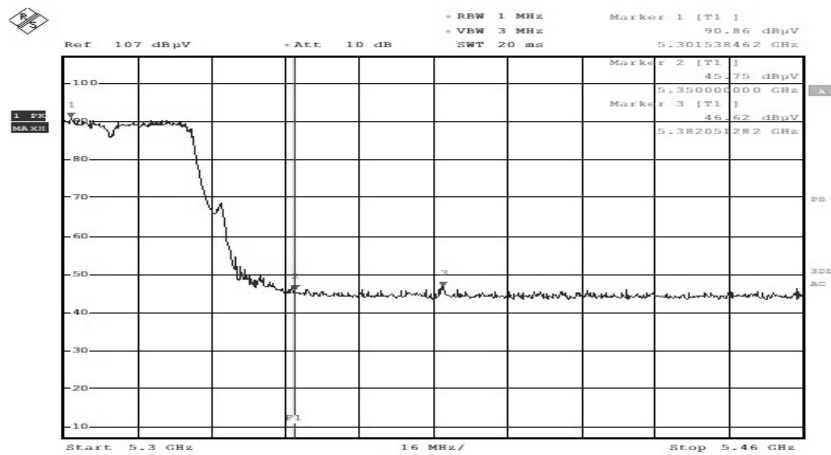


ESTR-21-00231

Band Edges(CH High)

Detector mode:Peak

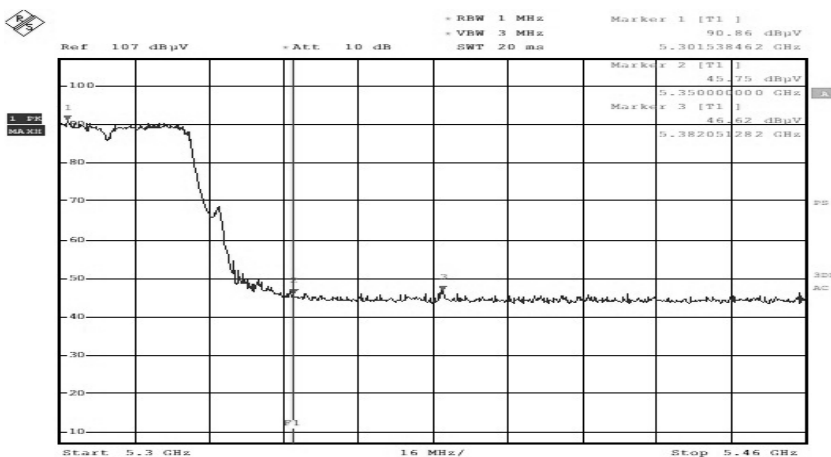
Polarity:Horizontal



ESTR-21-00231

Detector mode:Average

Polarity:Horizontal

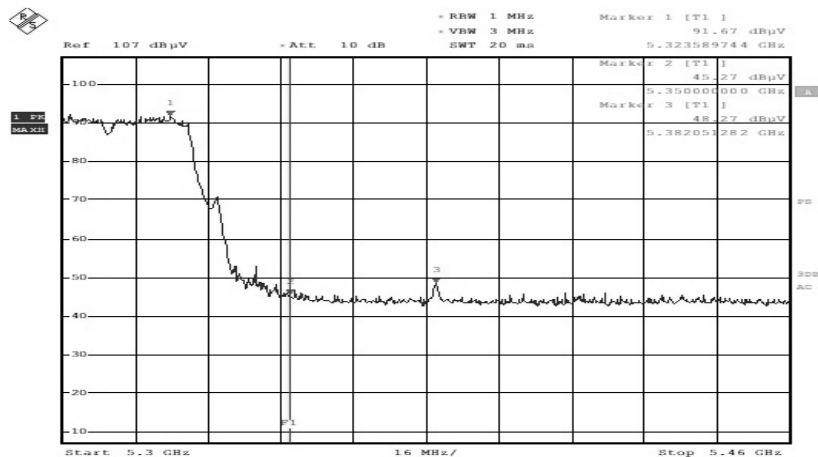


ESTR-21-00231

Band Edges(CH High)

Detector mode:Peak

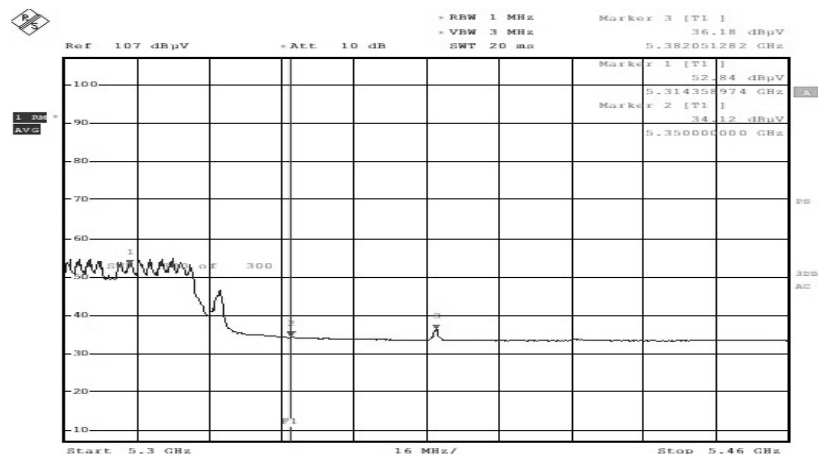
Polarity:Vertical



ESTR-21-00231

Detector mode:Average

Polarity:Vertical



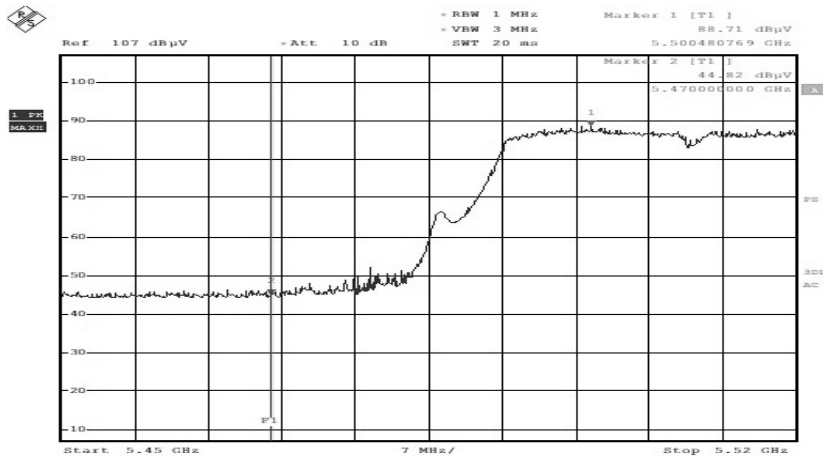
ESTR-21-00231

*802.11n HT40 Mode(was1)

Band Edges(CH Low)

Detector mode:Peak

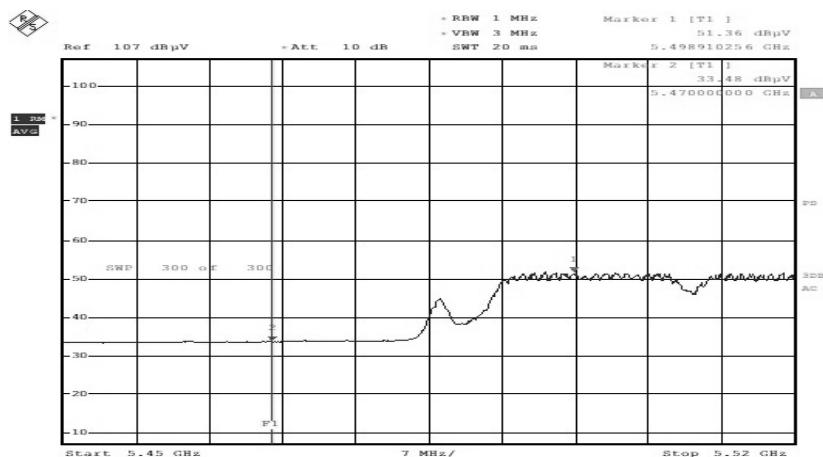
Polarity:Horizontal



ESTR-21-00231

Detector mode:Average

Polarity:Horizontal

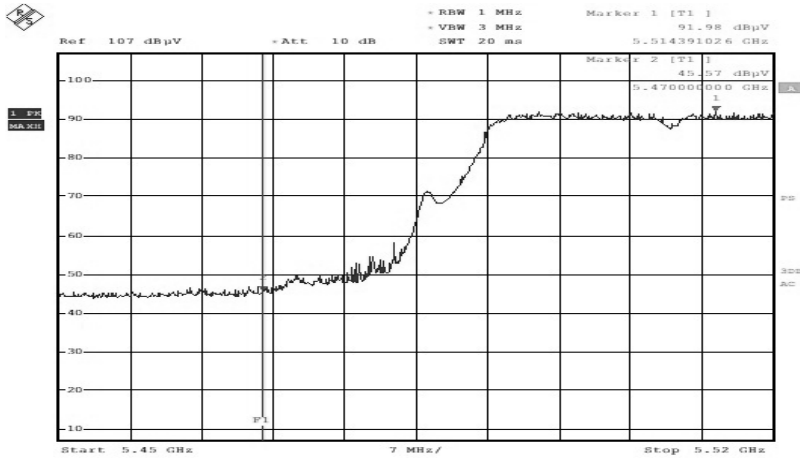


ESTR-21-00231

Band Edges(CH Low)

Detector mode:Peak

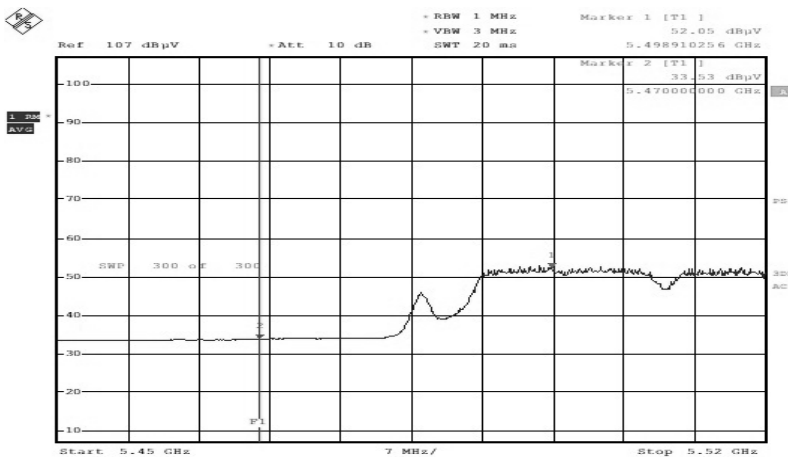
Polarity:Vertical



ESTR-21-00231

Detector mode:Average

Polarity:Vertical

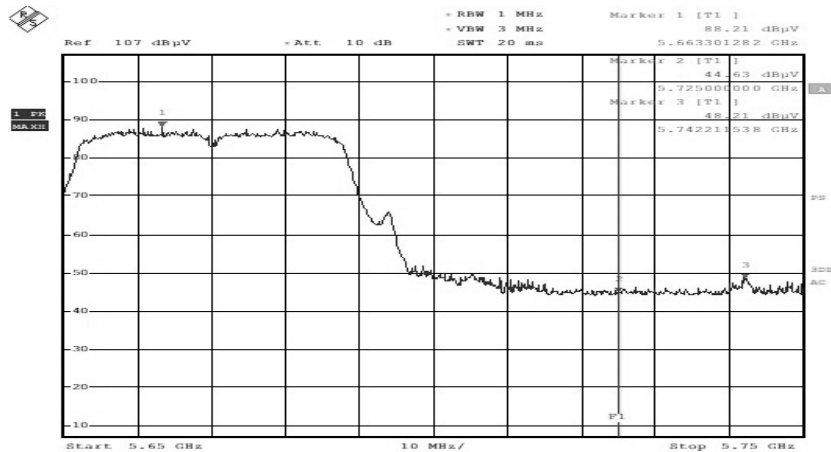


ESTR-21-00231

Band Edges(CH High)

Detector mode:Peak

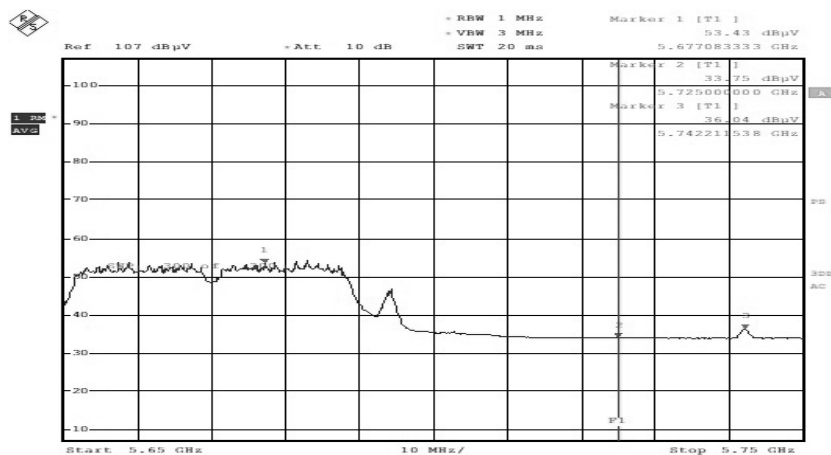
Polarity:Horizontal



ESTR-21-00231

Detector mode:Average

Polarity:Horizontal

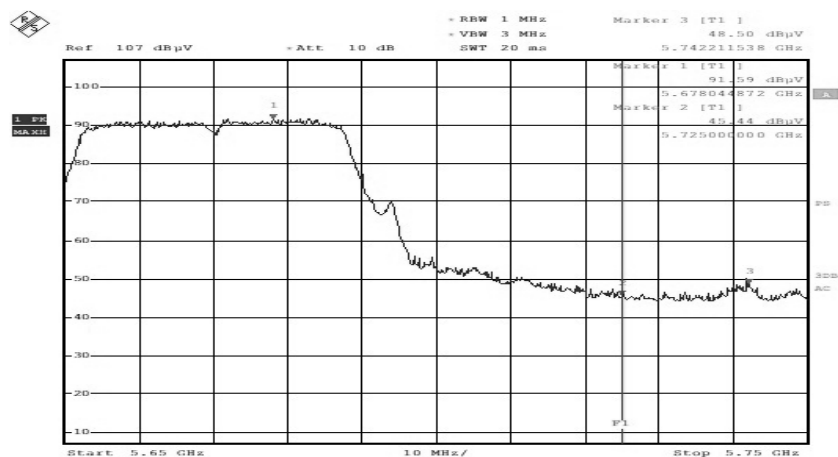


ESTR-21-00231

Band Edges(CH High)

Detector mode:Peak

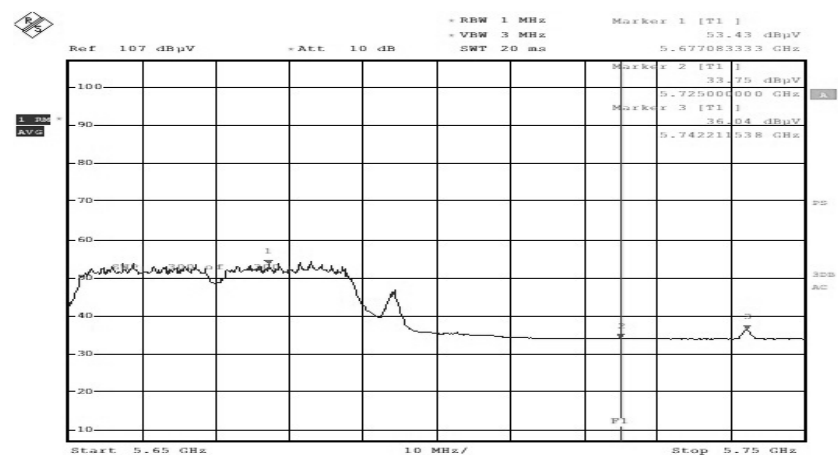
Polarity:Vertical



ESTR-21-00231

Detector mode:Average

Polarity:Vertical



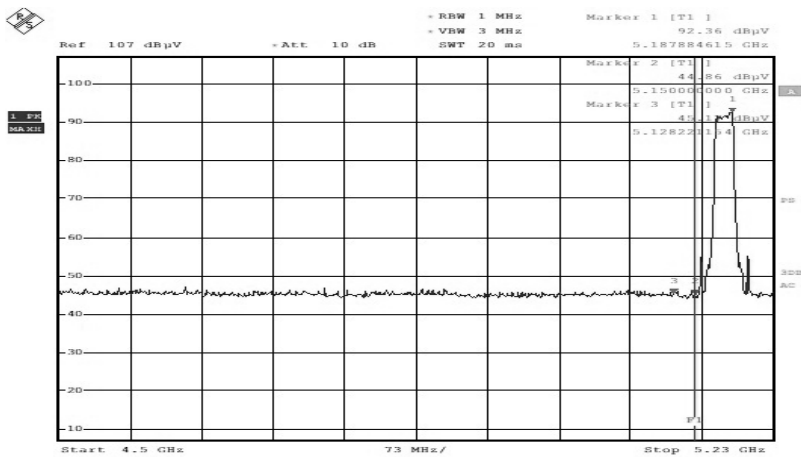
ESTR-21-00231

*802.11ac HT80 Mode(was1)

Band Edges(CH Low)

Detector mode:Peak

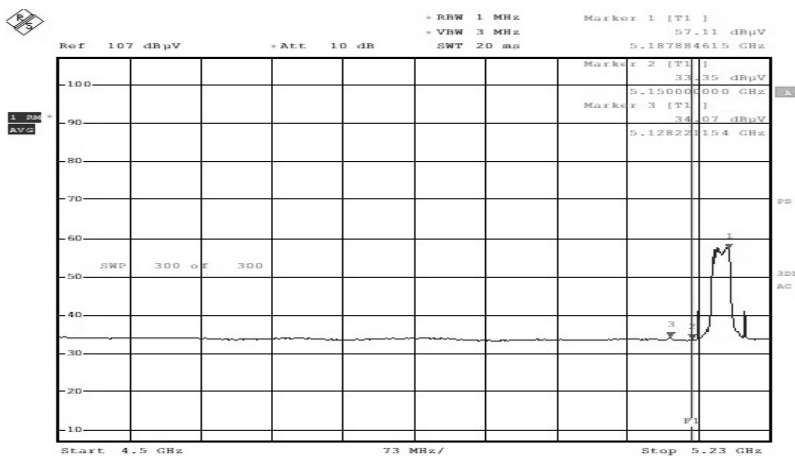
Polarity:Horizontal



ESTR-21-00231

Detector mode:Average

Polarity:Horizontal

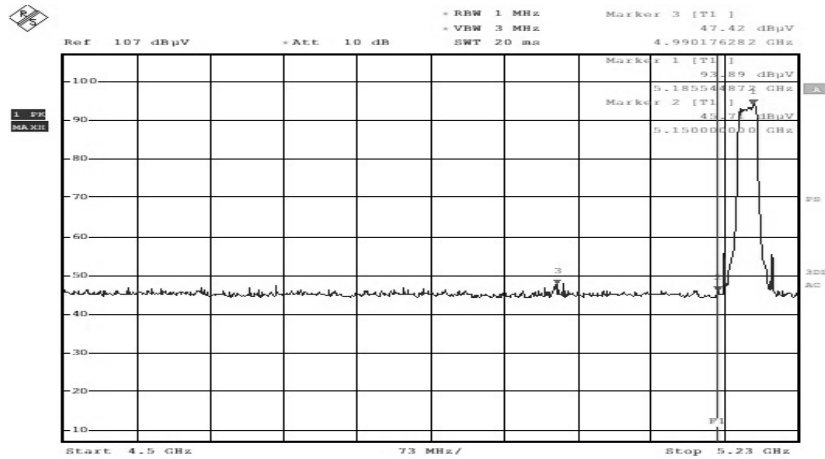


ESTR-21-00231

Band Edges(CH Low)

Detector mode:Peak

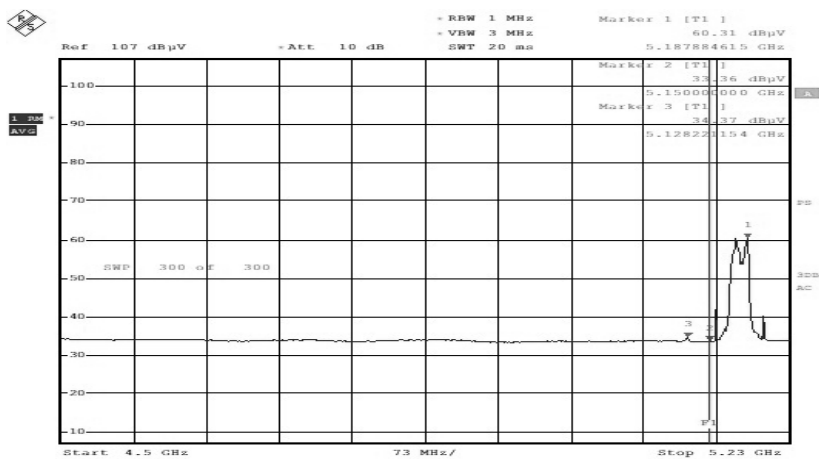
Polarity:Vertical



ESTR-21-00231

Detector mode:Average

Polarity:Vertical

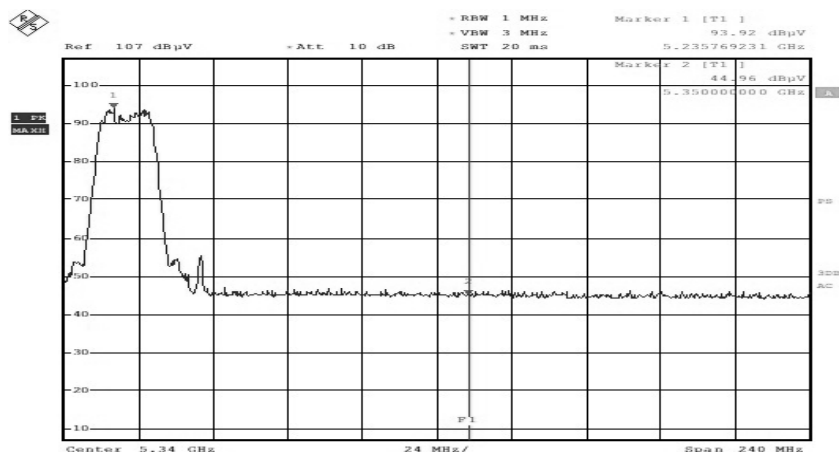


ESTR-21-00231

Band Edges(CH High)

Detector mode:Peak

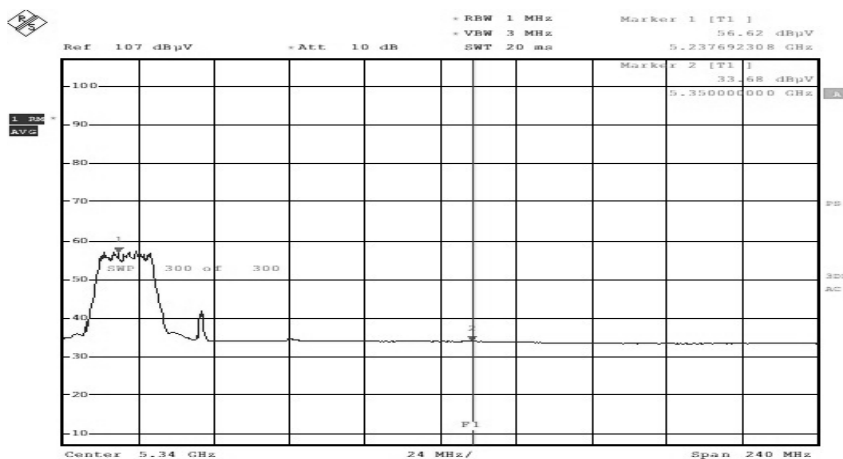
Polarity:Horizontal



ESTR-21-00231

Detector mode:Average

Polarity:Horizontal

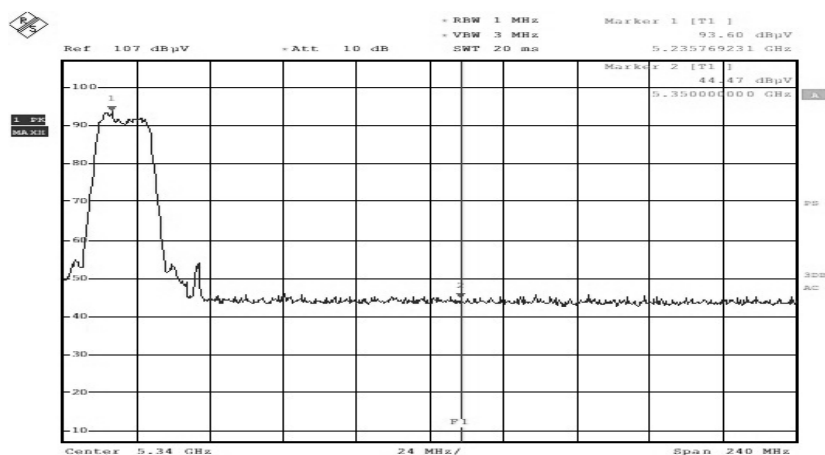


ESTR-21-00231

Band Edges(CH High)

Detector mode:Peak

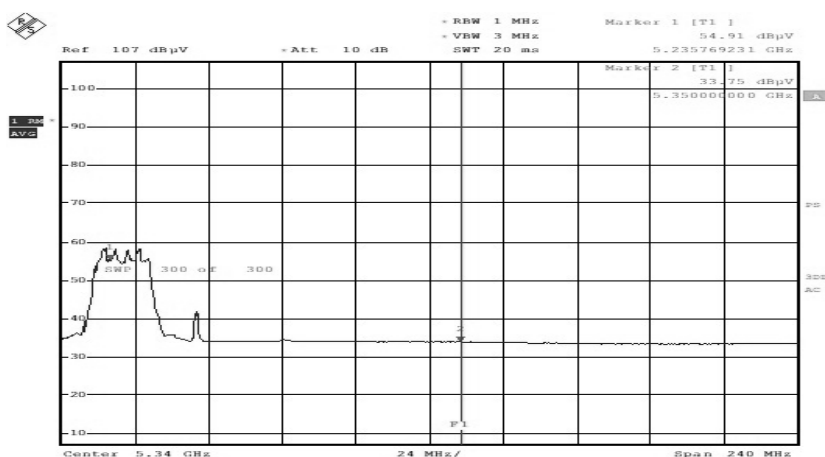
Polarity:Vertical



ESTR-21-00231

Detector mode:Average

Polarity:Vertical



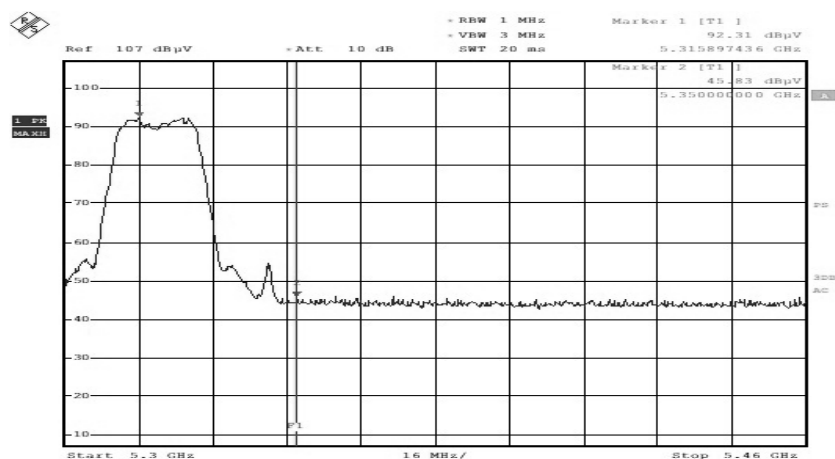
ESTR-21-00231

*802.11ac HT80 Mode(was3)

Band Edges(CH Low)

Detector mode:Peak

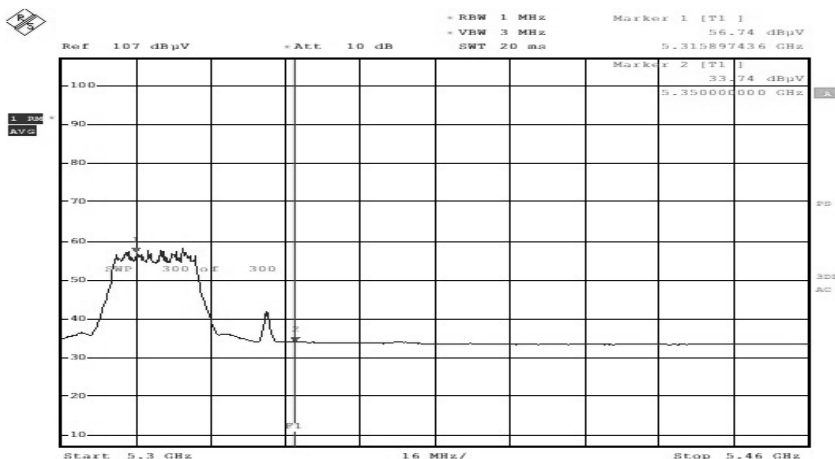
Polarity:Horizontal



ESTR-21-00231

Detector mode:Average

Polarity:Horizontal

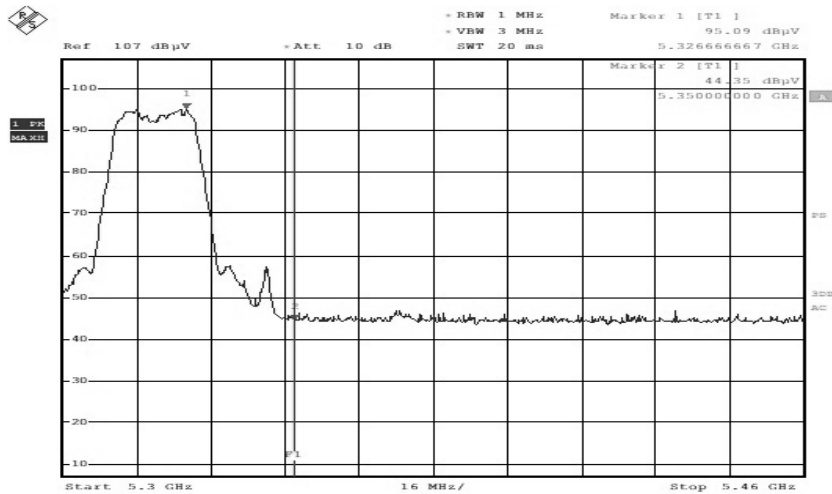


ESTR-21-00231

Band Edges(CH Low)

Detector mode:Peak

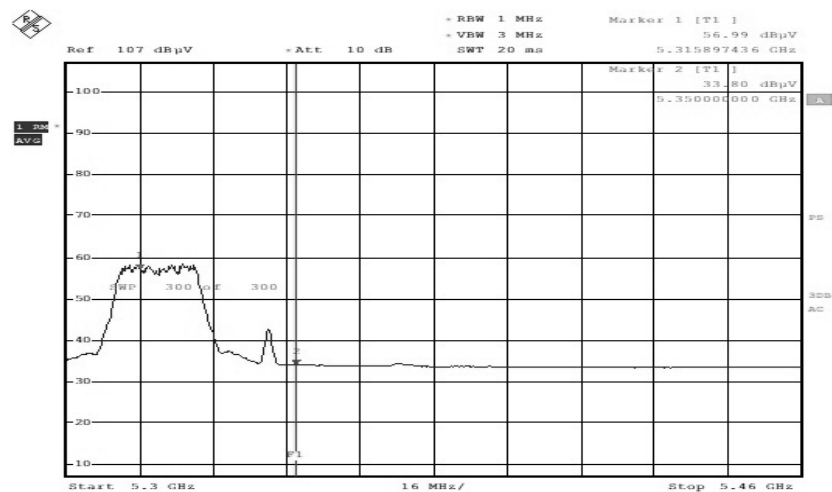
Polarity:Vertical



ESTR-21-00231

Detector mode:Average

Polarity:Vertical

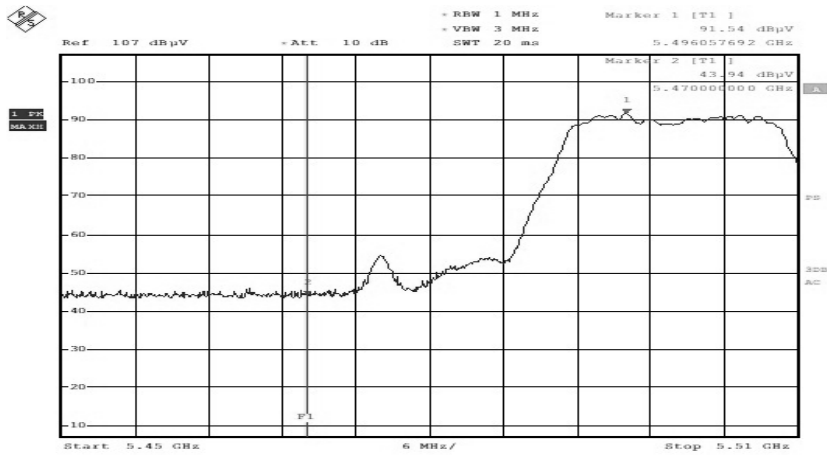


ESTR-21-00231

Band Edges(CH High)

Detector mode:Peak

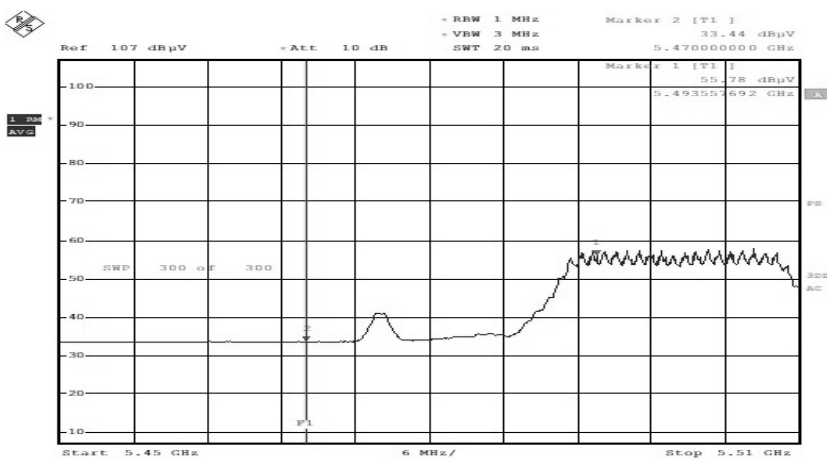
Polarity:Horizontal



ESTR-21-00231

Detector mode:Average

Polarity:Horizontal

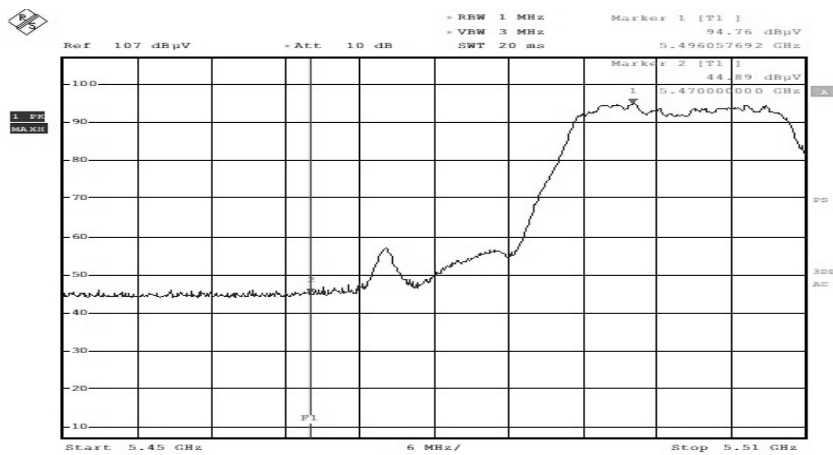


ESTR-21-00231

Band Edges(CH High)

Detector mode:Peak

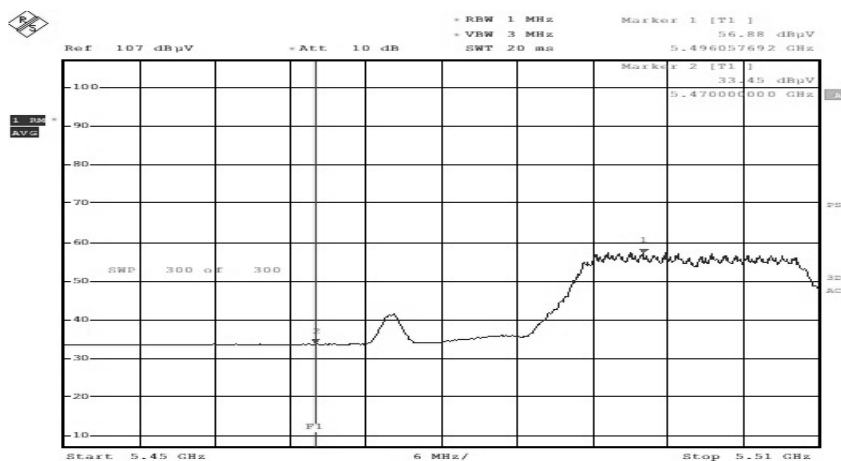
Polarity:Vertical



ESTR-21-00231

Detector mode:Average

Polarity:Vertical

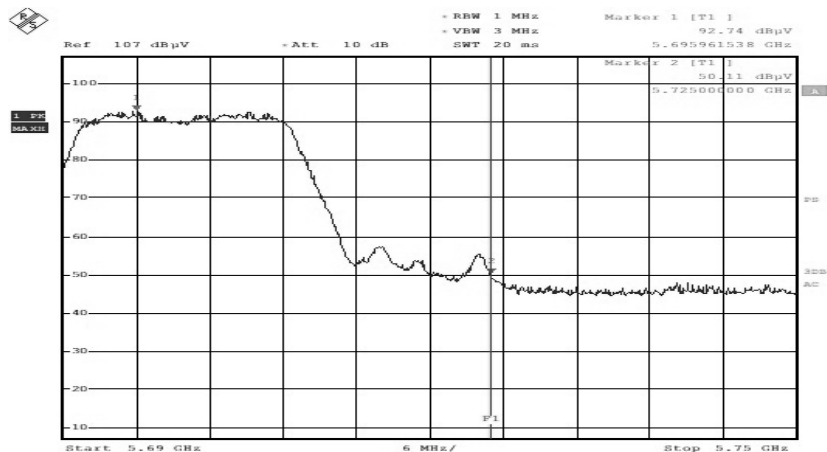


ESTR-21-00231

Band Edges(CH High)

Detector mode:Peak

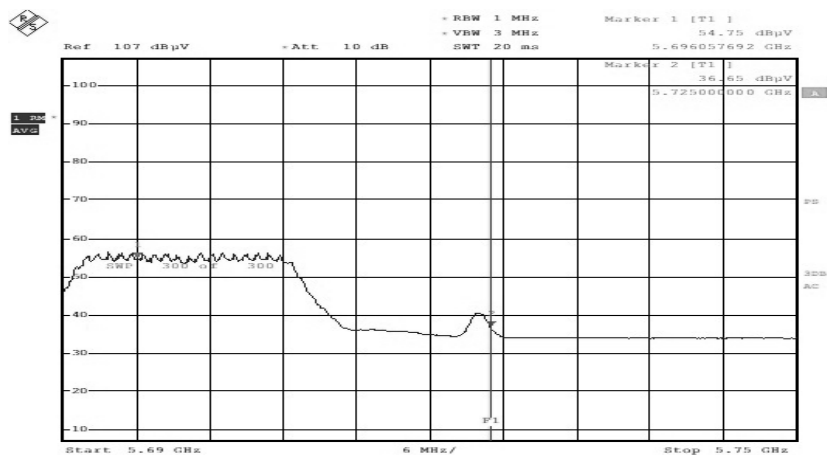
Polarity:Horizontal



ESTR-21-00231

Detector mode:Average

Polarity:Horizontal

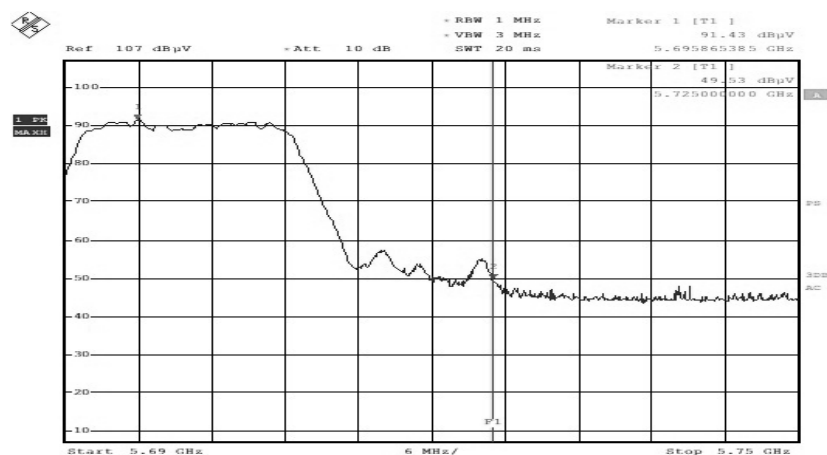


ESTR-21-00231

Band Edges(CH High)

Detector mode:Peak

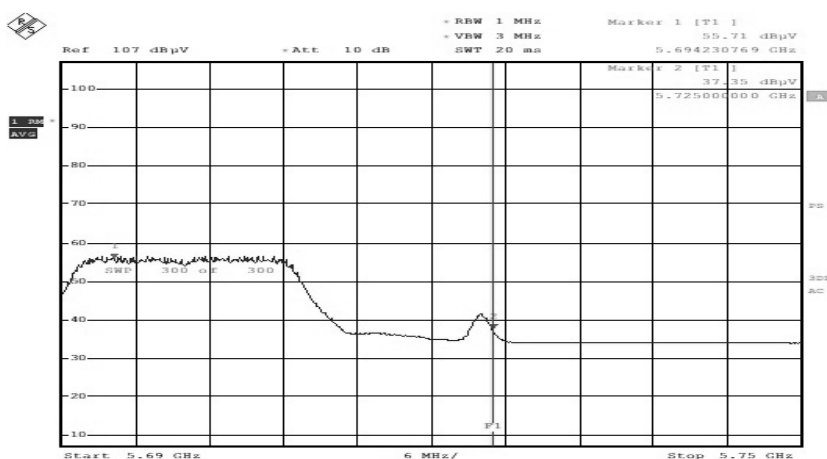
Polarity:Vertical



ESTR-21-00231

Detector mode:Average

Polarity:Vertical



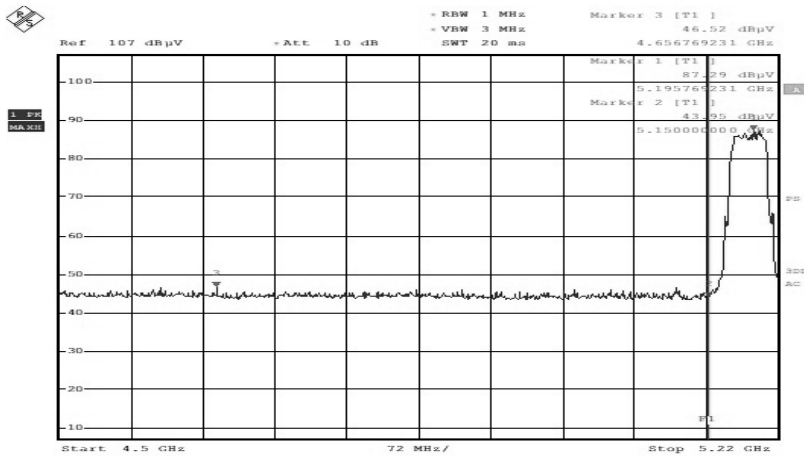
ESTR-21-00231

*802.11n HT40 Mode(was1)

Band Edges(CH Low)

Detector mode:Peak

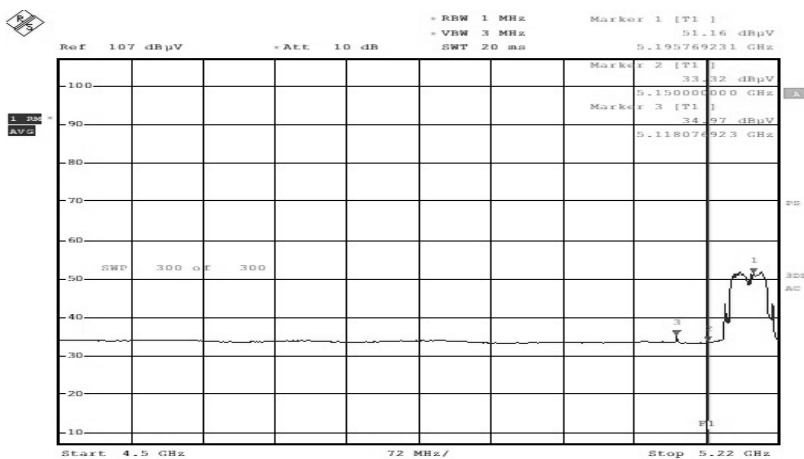
Polarity:Horizontal



ESTR-21-00231

Detector mode:Average

Polarity:Horizontal

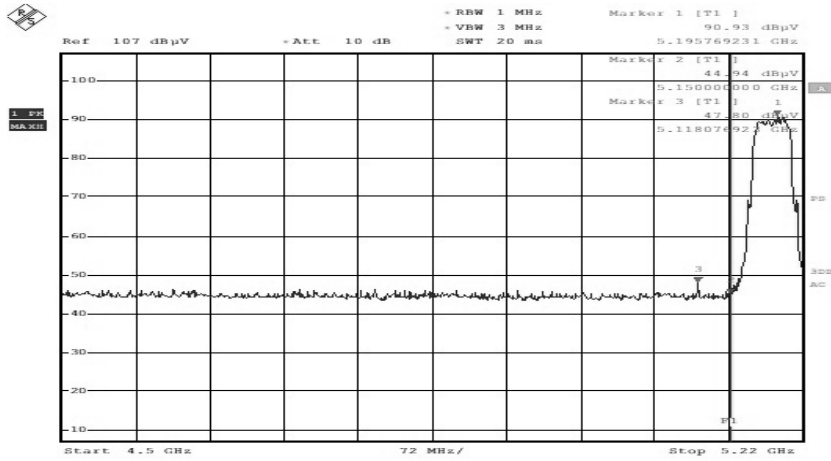


ESTR-21-00231

Band Edges(CH Low)

Detector mode:Peak

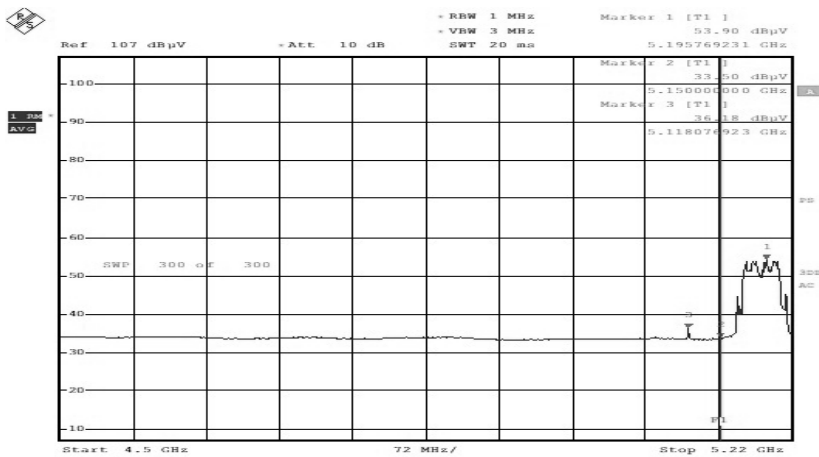
Polarity:Vertical



ESTR-21-00231

Detector mode:Average

Polarity:Vertical

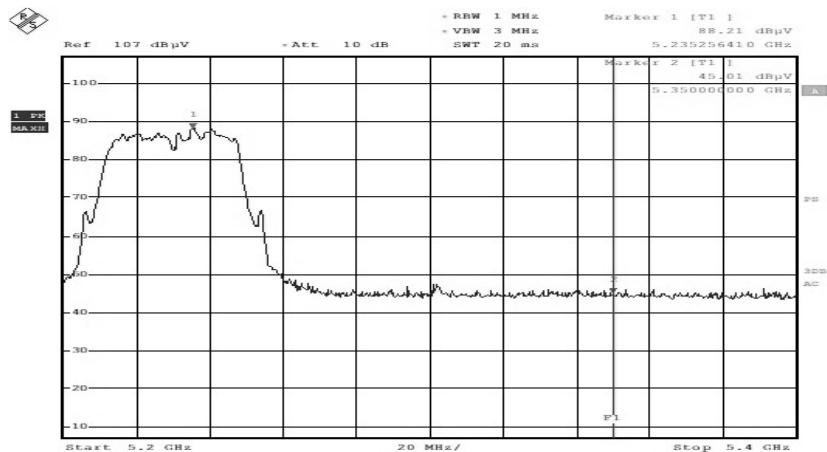


ESTR-21-00231

Band Edges(CH High)

Detector mode:Peak

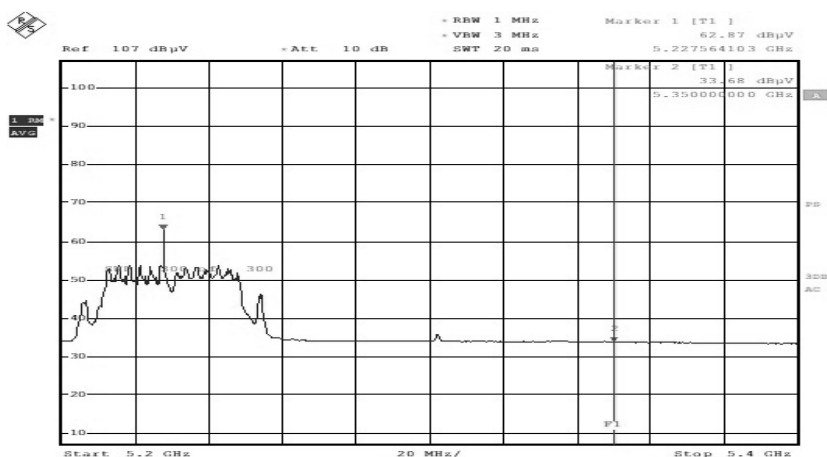
Polarity:Horizontal



ESTR-21-00231

Detector mode:Average

Polarity:Horizontal

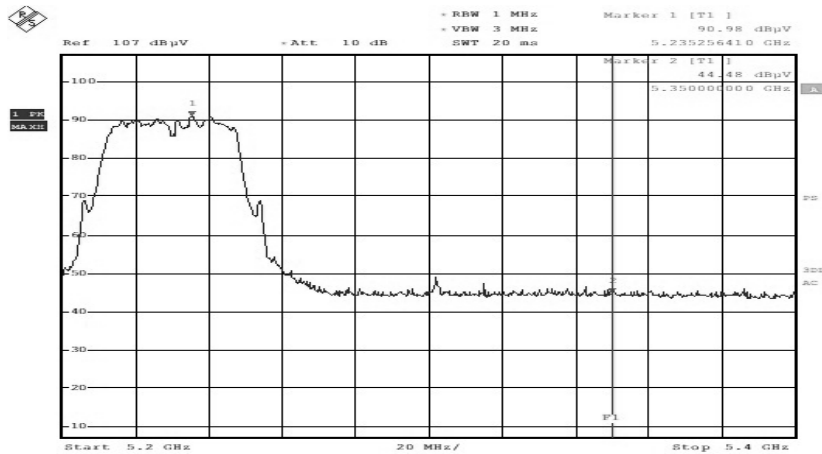


ESTR-21-00231

Band Edges(CH High)

Detector mode:Peak

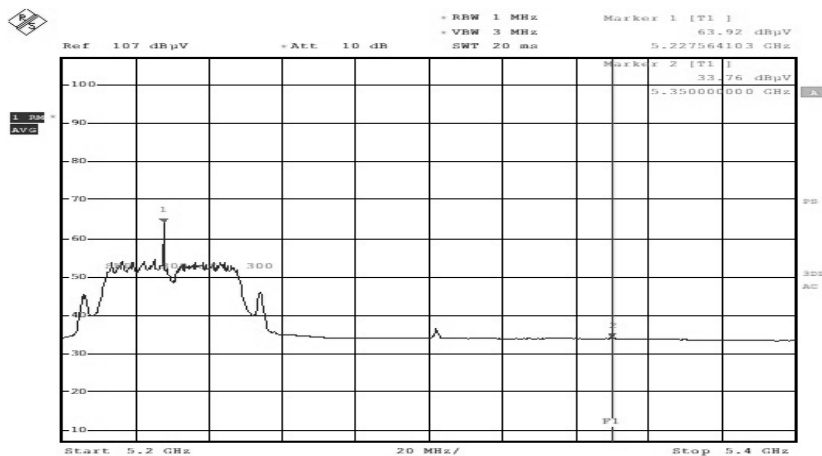
Polarity:Vertical



ESTR-21-00231

Detector mode:Average

Polarity:Vertical

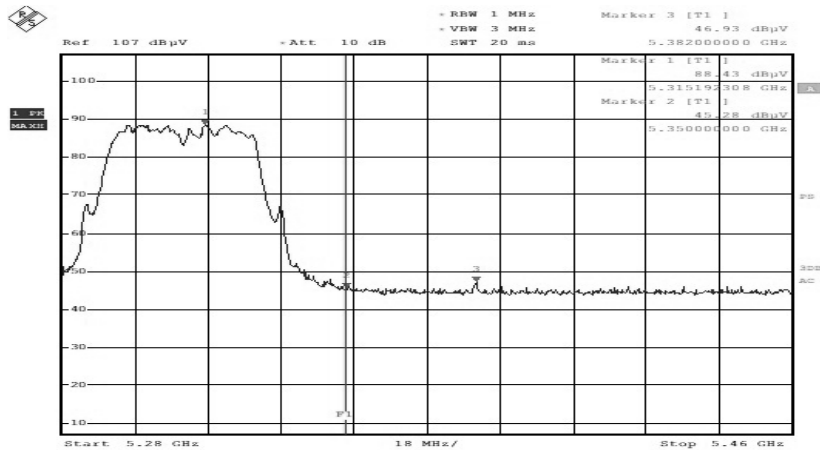


ESTR-21-00231

Band Edges(CH High)

Detector mode:Peak

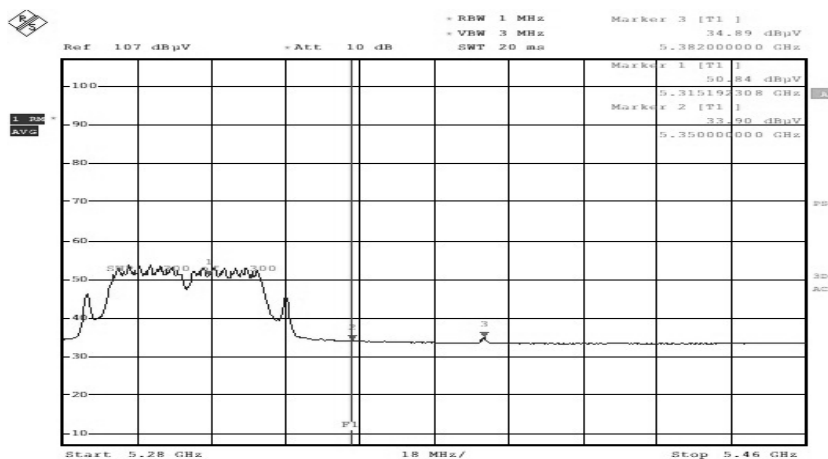
Polarity:Horizontal



ESTR-21-00231

Detector mode:Average

Polarity:Horizontal

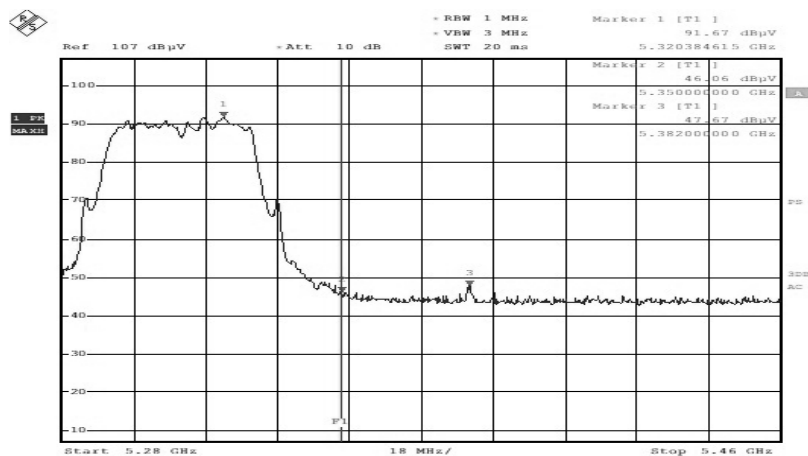


ESTR-21-00231

Band Edges(CH High)

Detector mode:Peak

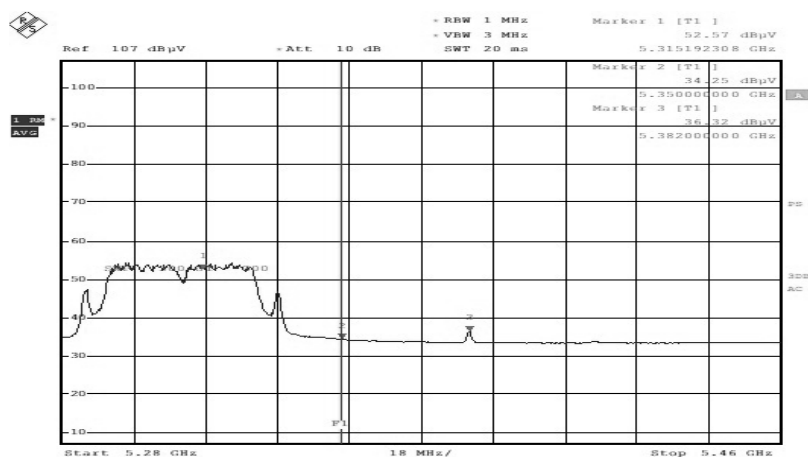
Polarity:Vertical



ESTR-21-00231

Detector mode:Average

Polarity:Vertical

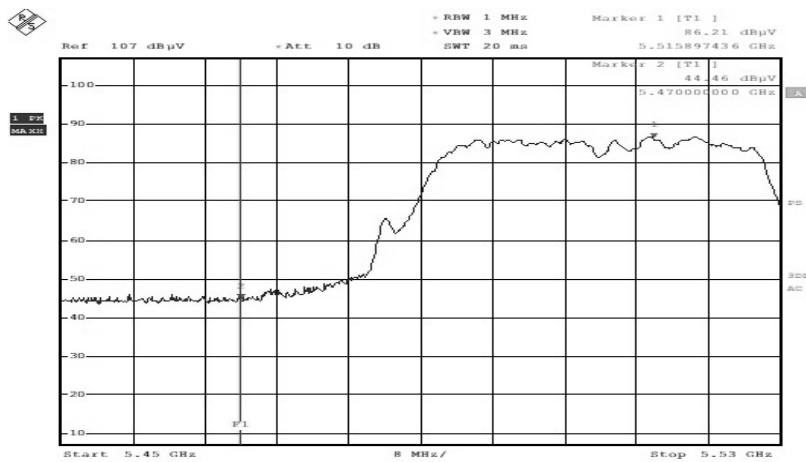


ESTR-21-00231

Band Edges(CH Low)

Detector mode:Peak

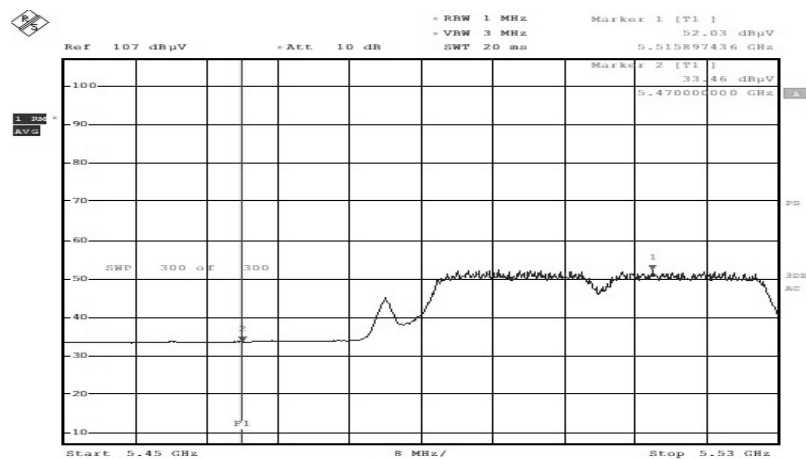
Polarity:Horizontal



ESTR-21-00231

Detector mode:Average

Polarity:Horizontal

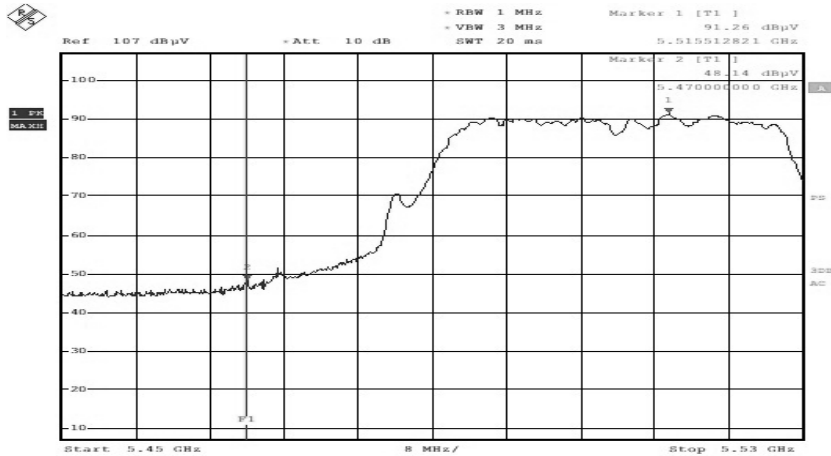


ESTR-21-00231

Band Edges(CH Low)

Detector mode:Peak

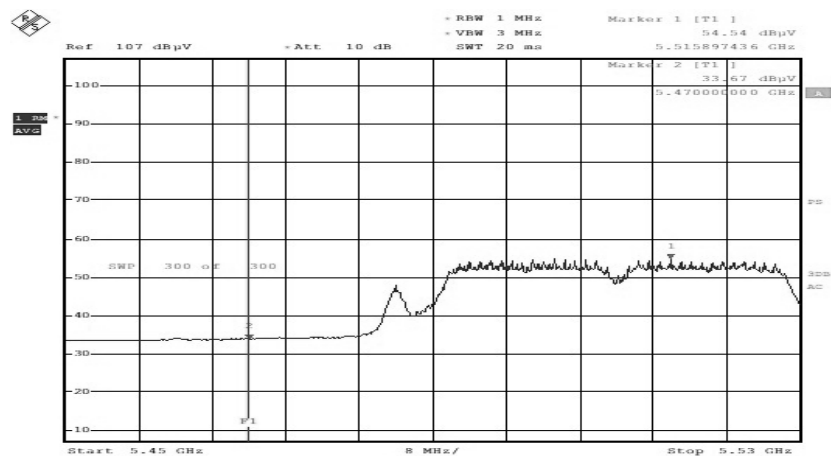
Polarity:Vertical



ESTR-21-00231

Detector mode:Average

Polarity:Vertical

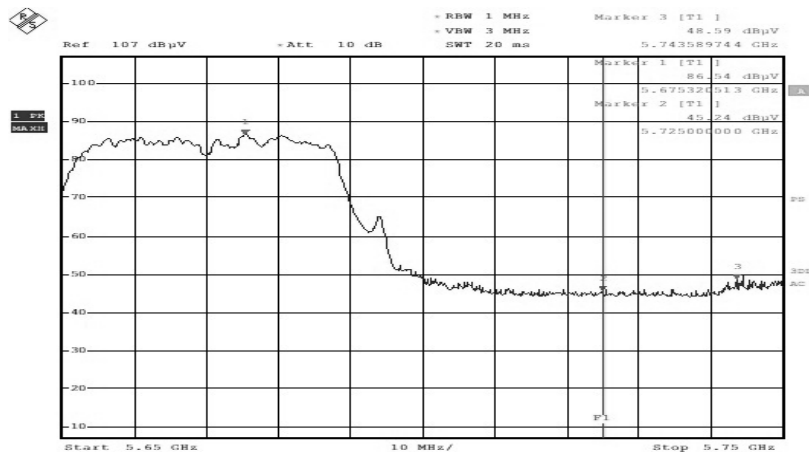


ESTR-21-00231

Band Edges(CH High)

Detector mode:Peak

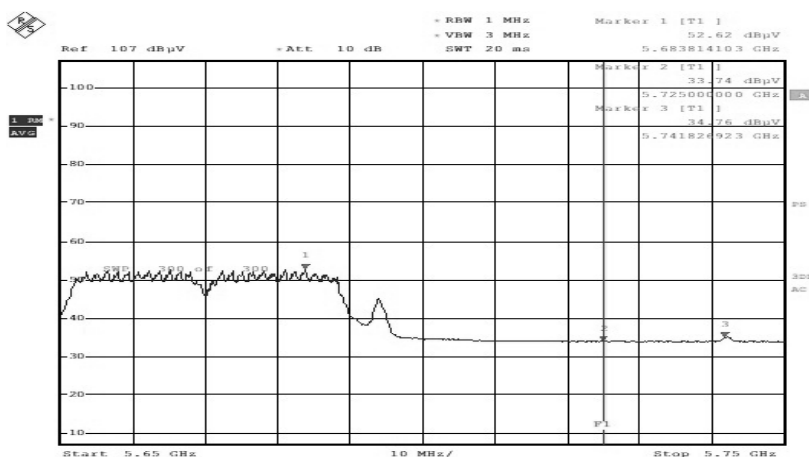
Polarity:Horizontal



ESTR-21-00231

Detector mode:Average

Polarity:Horizontal

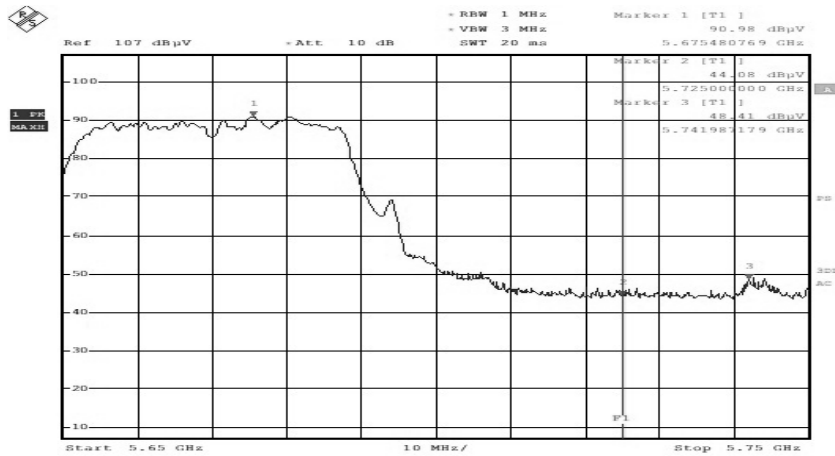


ESTR-21-00231

Band Edges(CH High)

Detector mode:Peak

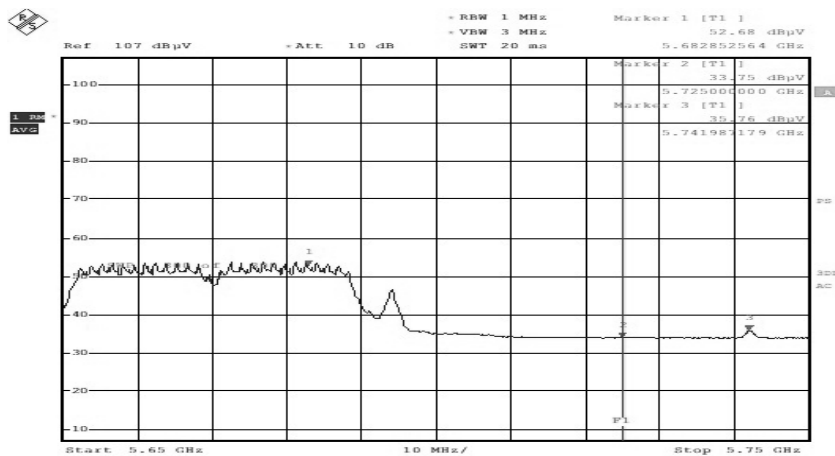
Polarity:Vertical



ESTR-21-00231

Detector mode:Average

Polarity:Vertical



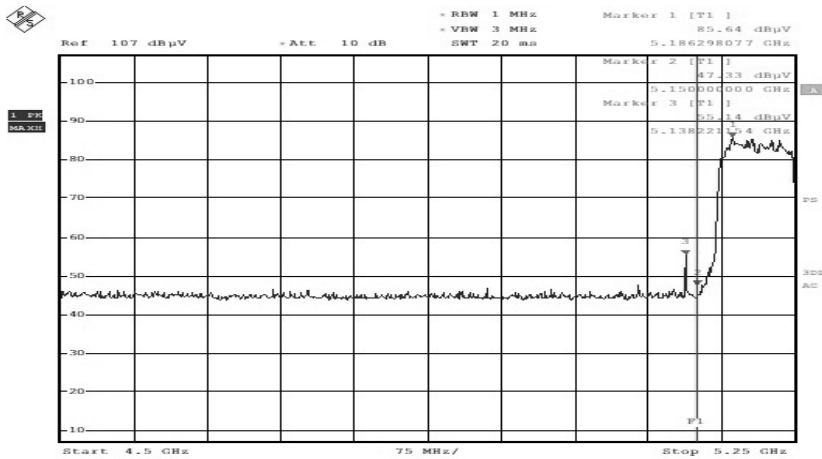
ESTR-21-00231

*802.11n HT80 Mode(was1)

Band Edges(CH Low)

Detector mode:Peak

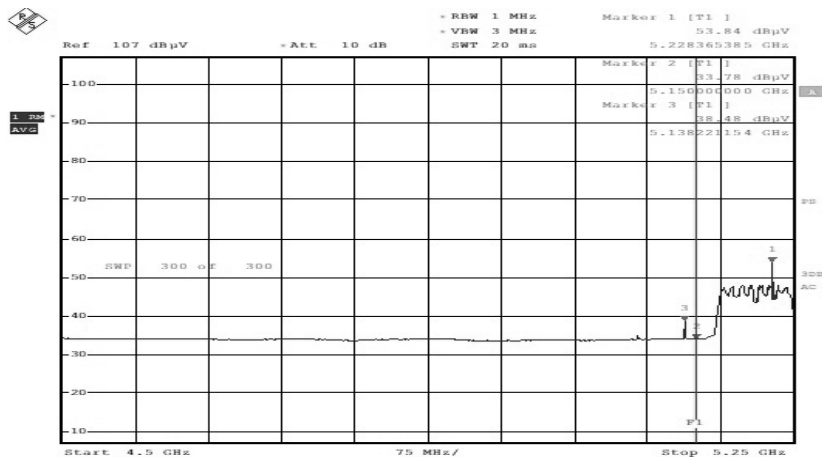
Polarity:Horizontal



ESTR-21-00231

Detector mode:Average

Polarity:Horizontal

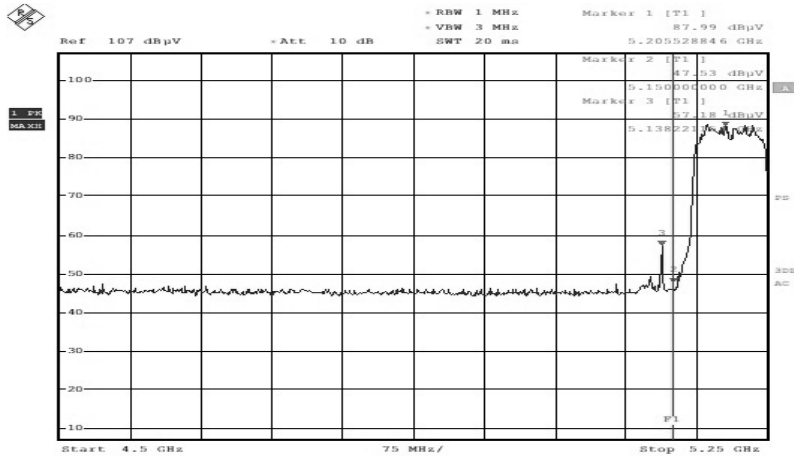


ESTR-21-00231

Band Edges(CH Low)

Detector mode:Peak

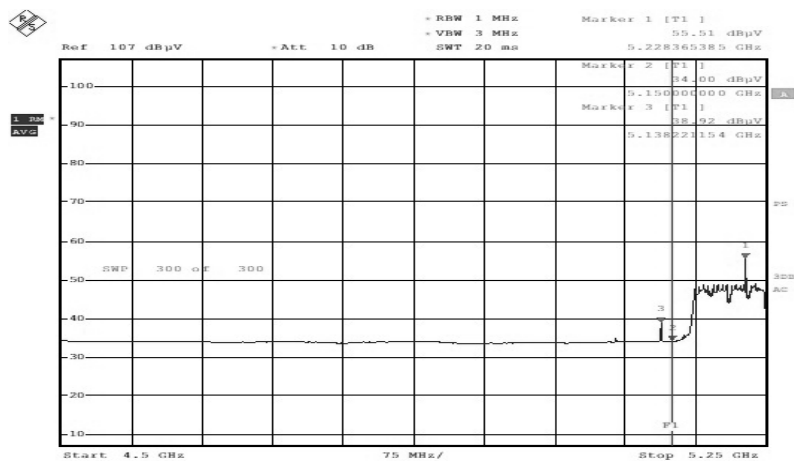
Polarity:Vertical



ESTR-21-00231

Detector mode:Average

Polarity:Vertical

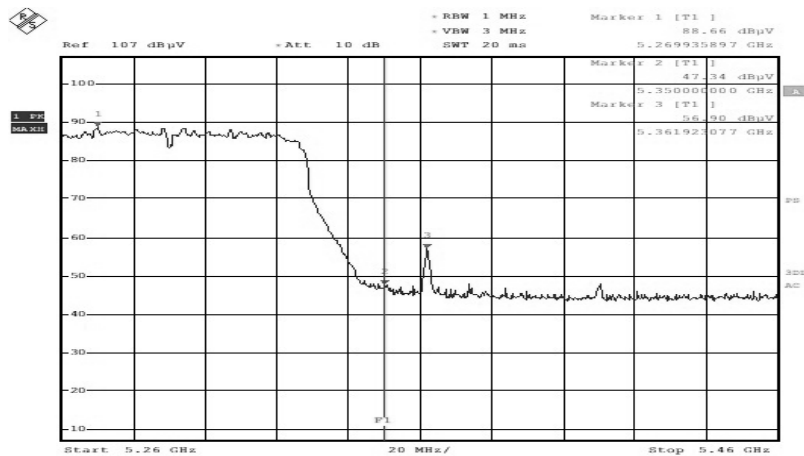


ESTR-21-00231

Band Edges(CH High)

Detector mode:Peak

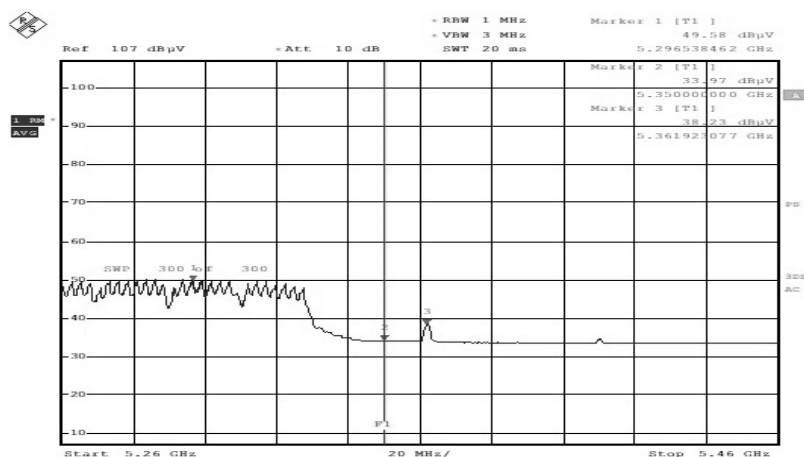
Polarity:Horizontal



ESTR-21-00231

Detector mode:Average

Polarity:Horizontal

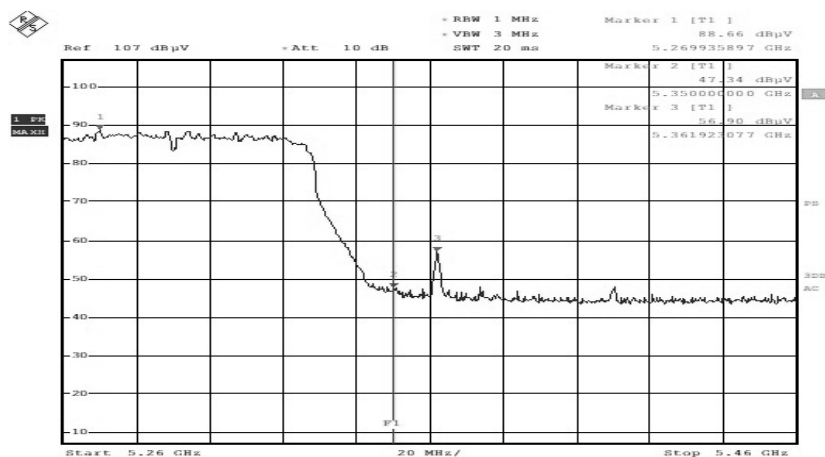


ESTR-21-00231

Band Edges(CH High)

Detector mode:Peak

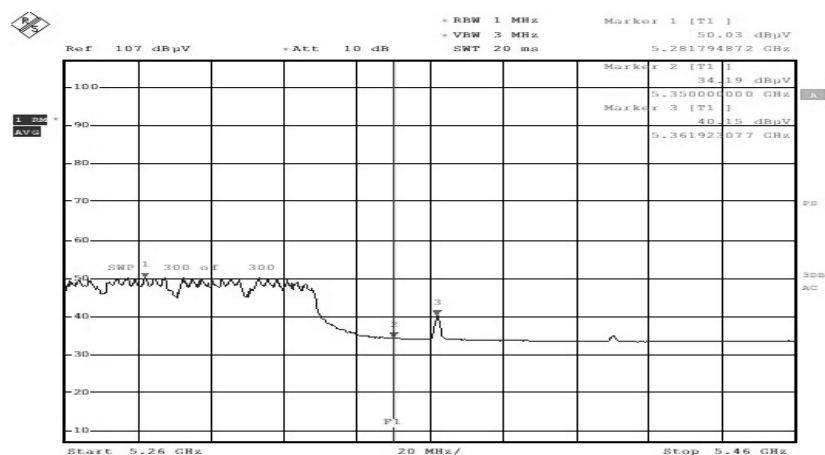
Polarity:Vertical



ESTR-21-00231

Detector mode:Average

Polarity:Vertical

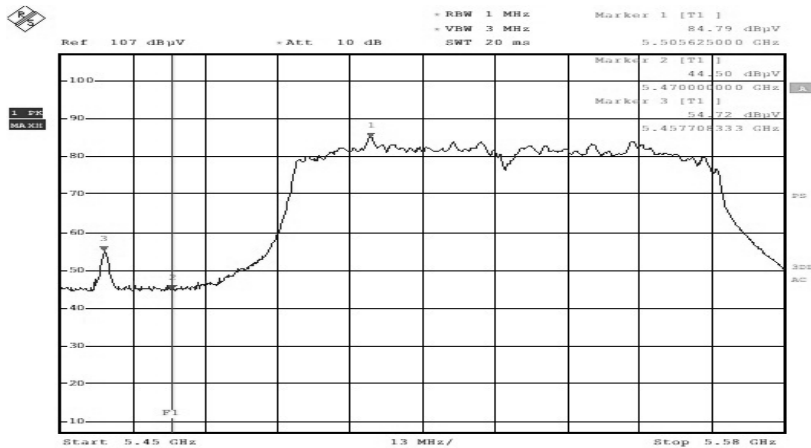


ESTR-21-00231

Band Edges(CH Low)

Detector mode:Peak

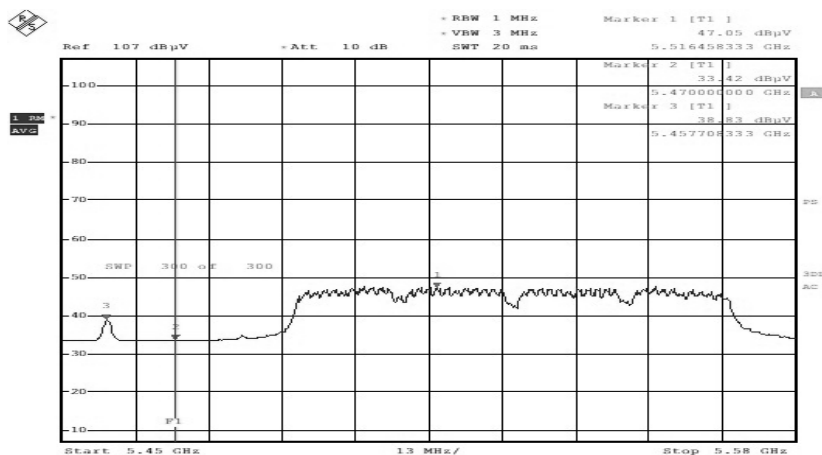
Polarity:Horizontal



ESTR-21-00231

Detector mode:Average

Polarity:Horizontal

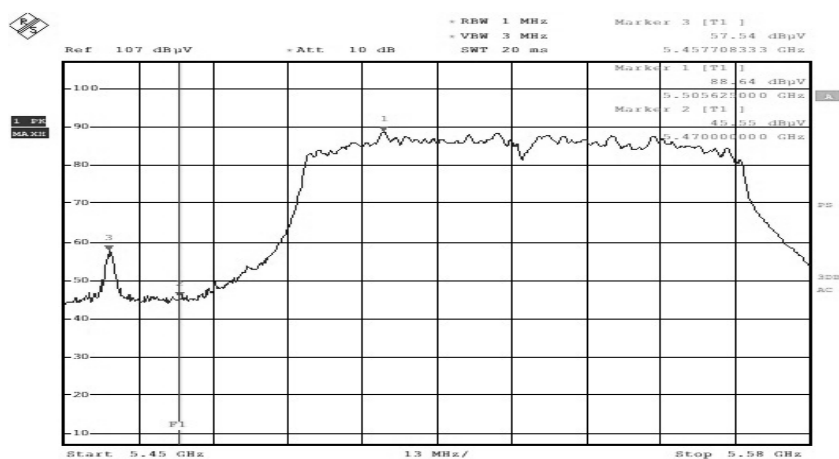


ESTR-21-00231

Band Edges(CH Low)

Detector mode:Peak

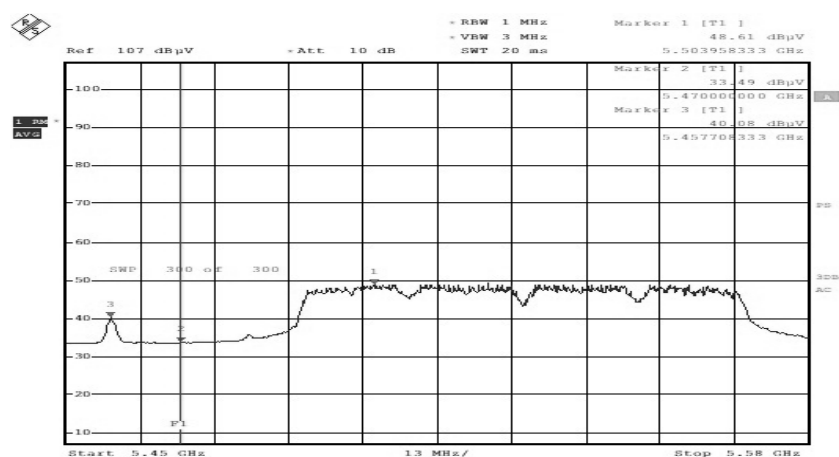
Polarity:Vertical



ESTR-21-00231

Detector mode:Average

Polarity:Vertical



ESTR-21-00231