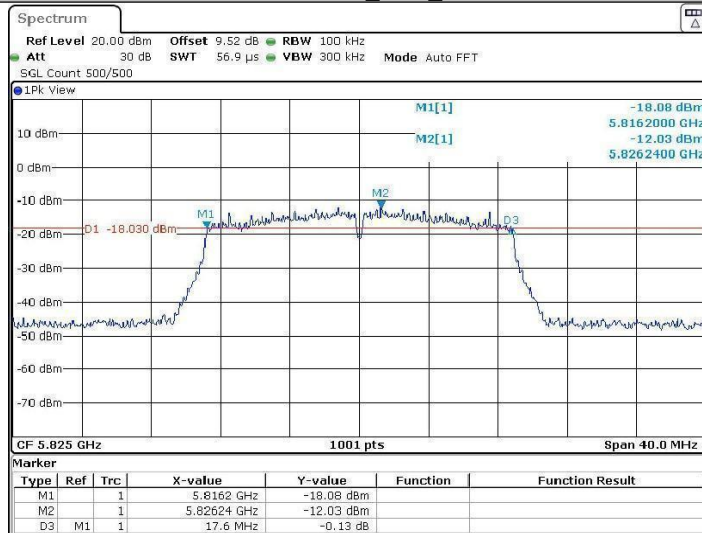
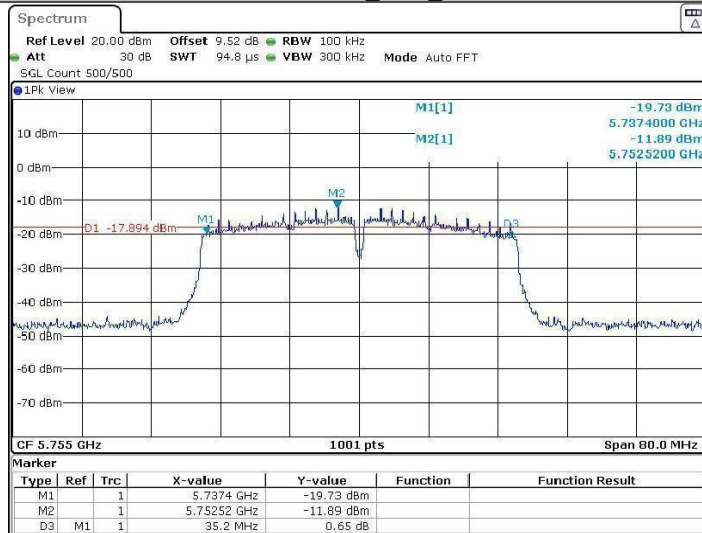


11AC20SISO_Ant1_5825



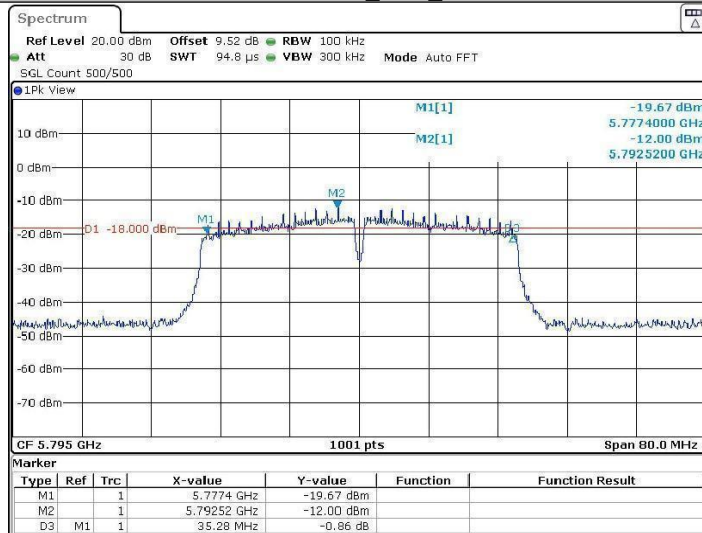
Date: 19 SEP. 2022 12:16:34

11AC40SISO_Ant1_5755



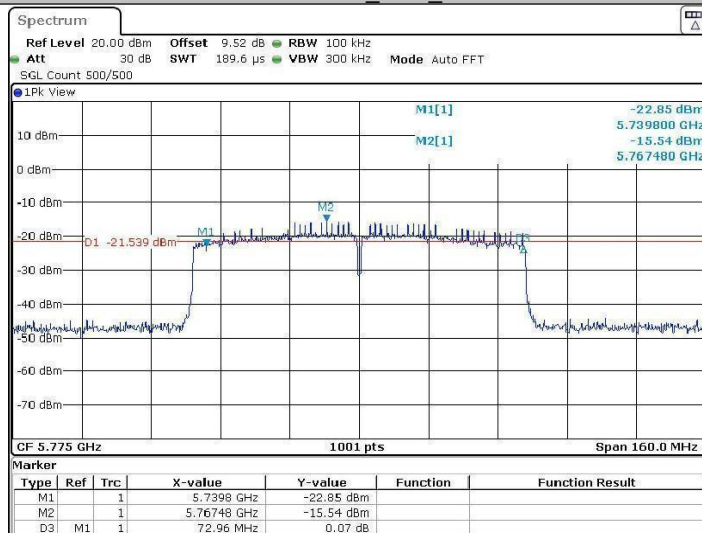
Date: 19 SEP. 2022 12:25:27

11AC40SISO_Ant1_5795



Date: 19 SEP.2022 12:28:11

11AC80SISO_Ant1_5775



Date: 19 SEP.2022 12:34:54

Appendix B): Maximum Conduct Output Power

1.Duty Cycle (x)

Test Requirement KDB 789033 D02 II B 1

Test Method: KDB 789033 II B 1

Test Procedure:

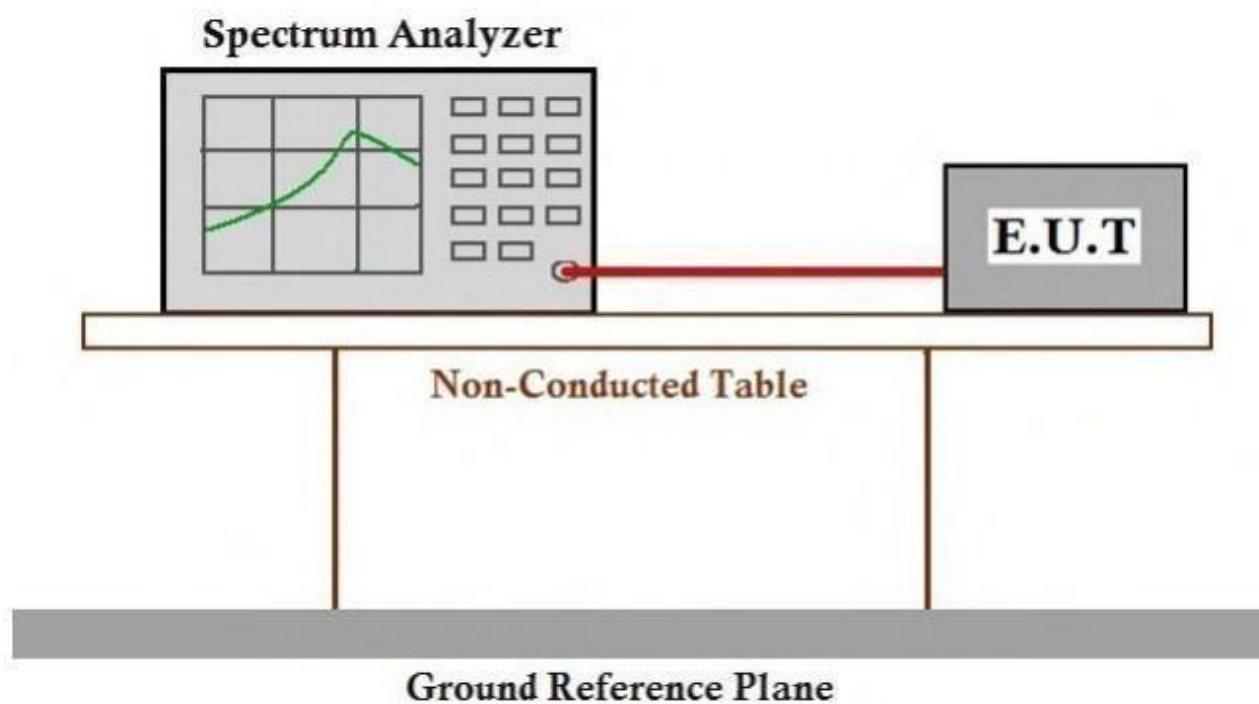
Set RBW = 20MHz

Set VBW = 40MHz

Set detector = peak.

Set span =0Hz

Test Setup Diagram



Measurement Data

Test Mode	Antenna	Channel	Duty Cycle[%]	10log(1/x) Factor[dB]
11A	Ant1	5180	97.20	0.12
11N20	Ant1	5180	96.27	0.17
11N40	Ant1	5190	94.12	0.26
11AC20	Ant1	5180	96.30	0.16
11AC40	Ant1	5190	92.86	0.32
11AC80	Ant1	5210	88.89	0.51

2. Maximum Conducted Output Power

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

Test Method: KDB 789033 D02 II E

Limit:

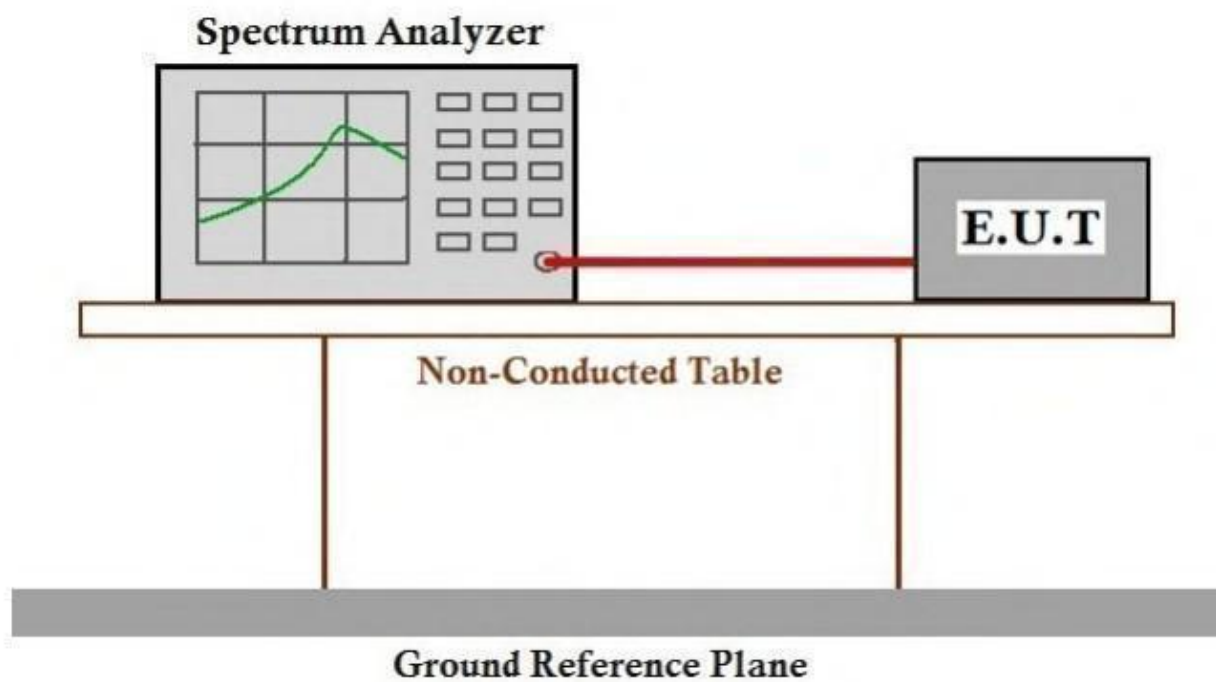
Frequency band(MHz)	Limit
5150-5250	$\leq 1\text{W}(30\text{dBm})$ for master device
	$\leq 250\text{mW}(24\text{dBm})$ for client device
5250-5350	$\leq 250\text{mW}(24\text{dBm})$ for client device or $11\text{dBm}+10\log B^*$
5470-5725	$\leq 250\text{mW}(24\text{dBm})$ for client device or $11\text{dBm}+10\log B^*$
5725-5850	$\leq 1\text{W}(30\text{dBm})$
Remark:	* Where B is the 26dB emission bandwidth in MHz. The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

Test Procedure:

Method SA-2 (trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- (1) Set RBW = 1 MHz.
- (2) Set VBW $\geq$ 3 MHz.
- (3) Detector = power average
- (4) Sweep time = auto.
- (5) Add duty cycle to the measured average power.

Test Setup Diagram



Measurement Data

Test Mode	Antenna	Channel	Meas.Level [dBm]	Av.Power [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	5.66	5.78	24	PASS
11A	Ant1	5220	3.08	3.2	24	PASS
11A	Ant1	5240	4.00	4.12	24	PASS
11A	Ant1	5745	1.89	2.01	30	PASS
11A	Ant1	5785	1.21	1.33	30	PASS
11A	Ant1	5825	0.68	0.8	30	PASS
11N20	Ant1	5180	5.43	5.6	24	PASS
11N20	Ant1	5220	6.79	6.96	24	PASS
11N20	Ant1	5240	6.96	7.13	24	PASS
11N20	Ant1	5745	6.69	6.86	30	PASS
11N20	Ant1	5785	4.22	4.39	30	PASS
11N20	Ant1	5825	3.52	3.69	30	PASS
11N40	Ant1	5190	4.88	5.14	24	PASS
11N40	Ant1	5230	3.36	3.62	24	PASS
11N40	Ant1	5755	1.58	1.84	30	PASS
11N40	Ant1	5795	1.73	1.99	30	PASS
11AC20	Ant1	5180	5.70	5.86	24	PASS
11AC20	Ant1	5220	3.06	3.22	24	PASS
11AC20	Ant1	5240	3.89	4.05	24	PASS
11AC20	Ant1	5745	1.72	1.88	30	PASS
11AC20	Ant1	5785	1.09	1.25	30	PASS
11AC20	Ant1	5825	0.55	0.71	30	PASS
11AC40	Ant1	5190	5.03	5.35	24	PASS
11AC40	Ant1	5230	3.35	3.67	24	PASS
11AC40	Ant1	5755	1.28	1.6	30	PASS
11AC40	Ant1	5795	1.62	1.94	30	PASS
11AC80	Ant1	5210	4.24	4.75	24	PASS
11AC80	Ant1	5775	0.90	1.41	30	PASS

Note: The Duty Cycle Factor is compensated in the graph.

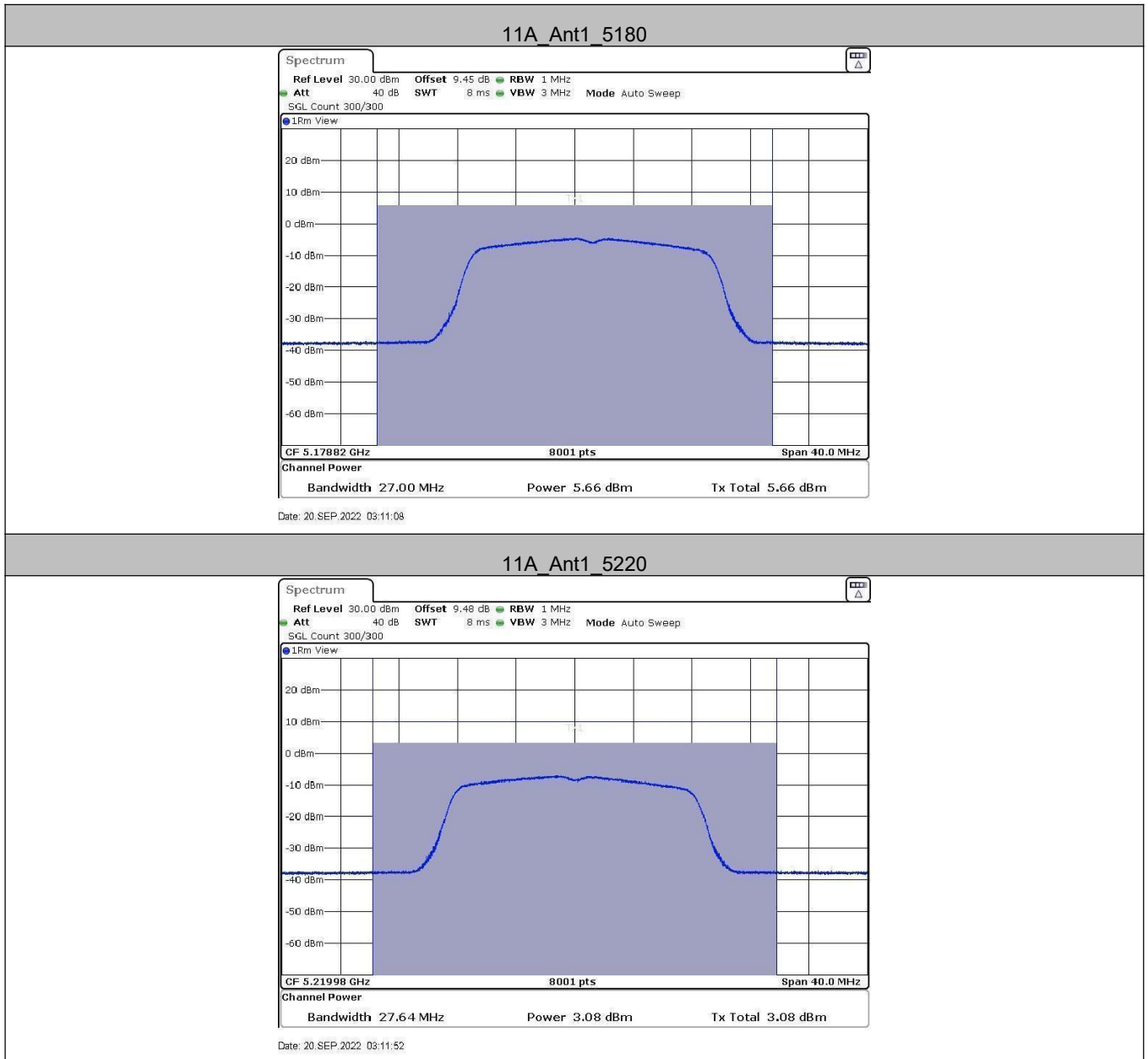
Remark:

Av.Power=Meas.Level+10 log (1/duty cycle)

E.i.r.p=Av.Power+G,

G = antenna gain in dBi.

Test Graphs

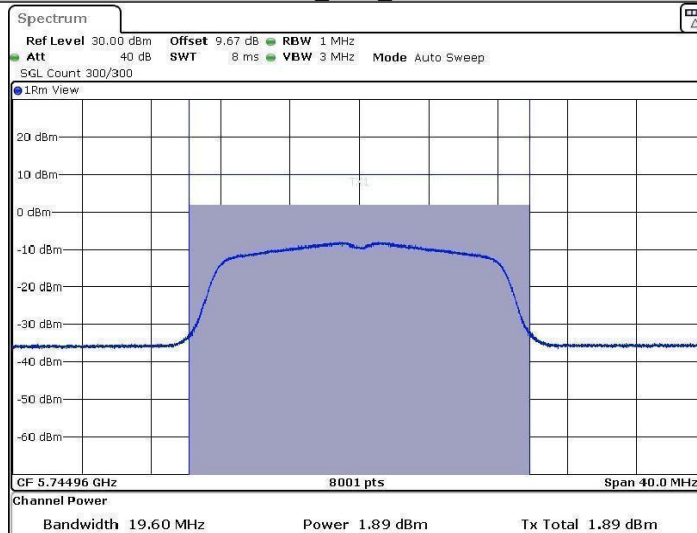


11A_Ant1_5240



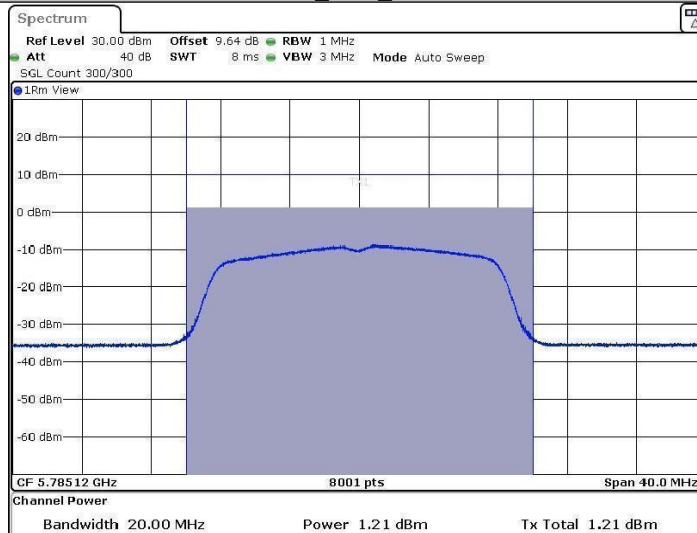
Date: 20.SEP.2022 03:12:31

11A_Ant1_5745



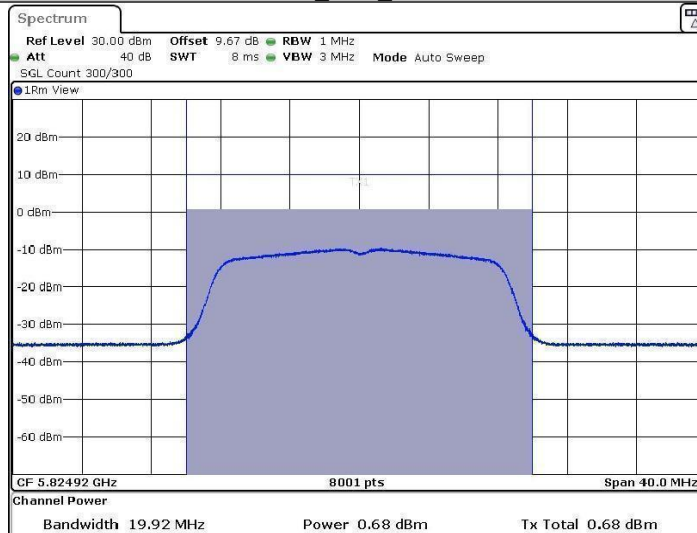
Date: 20.SEP.2022 03:19:56

11A_Ant1_5785



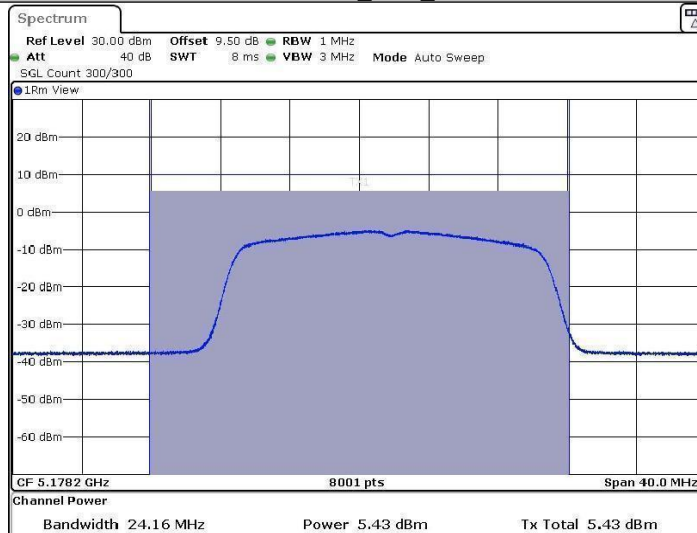
Date: 20.SEP.2022 03:22:52

11A_Ant1_5825



Date: 20.SEP.2022 03:25:25

11N20SISO_Ant1_5180



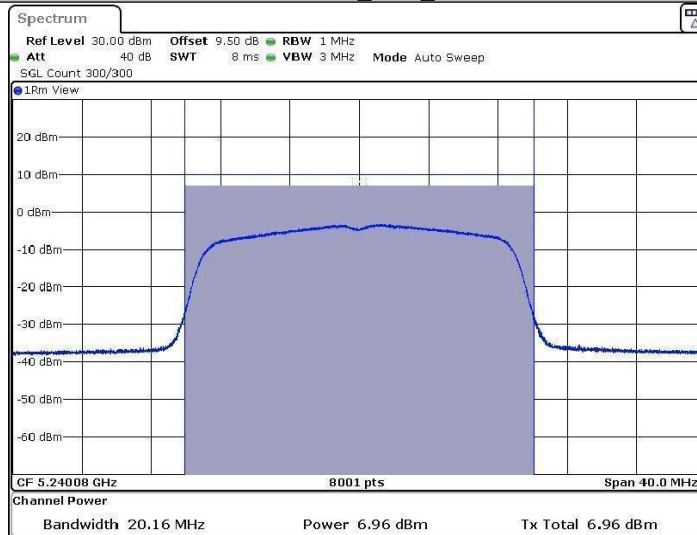
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11N20SISO_Ant1_5220



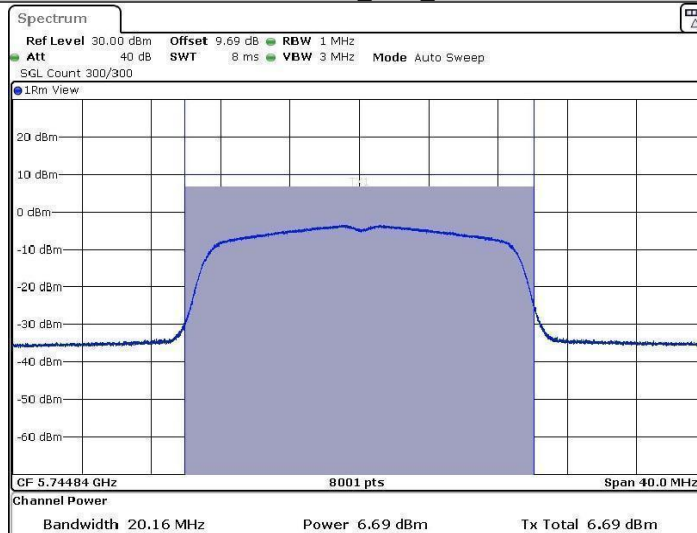
Date: 16 SEP.2022 02:14:20

11N20SISO_Ant1_5240



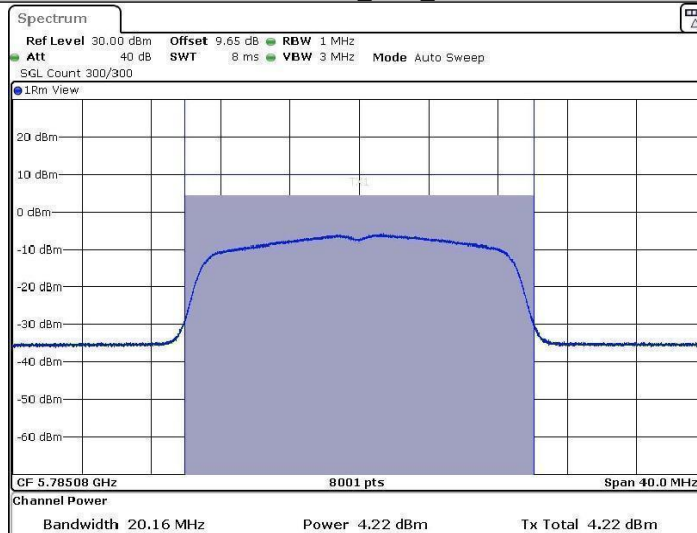
Date: 16 SEP.2022 02:19:00

11N20SISO_Ant1_5745



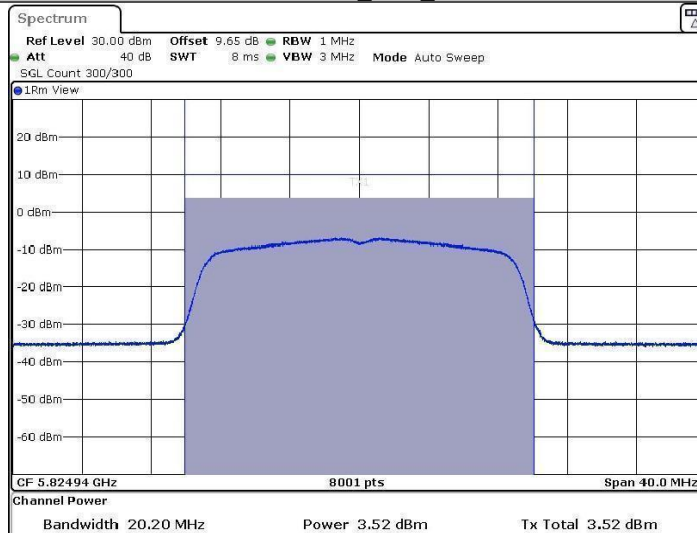
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11N20SISO_Ant1_5785



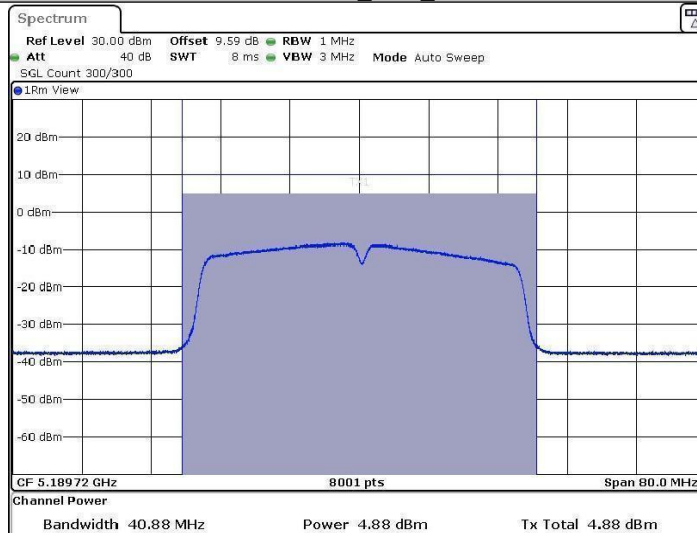
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11N20SISO_Ant1_5825



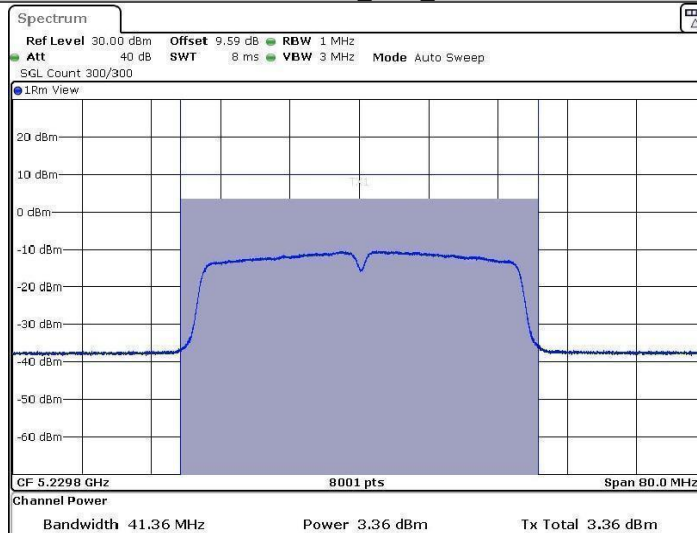
Date: 16 SEP.2022 02:41:29

11N40SISO_Ant1_5190



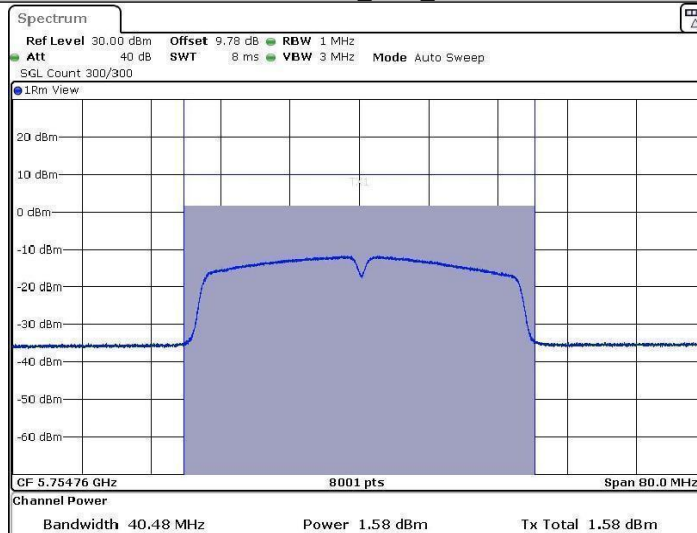
Date: 19 SEP.2022 09:37:02

11N40SISO_Ant1_5230



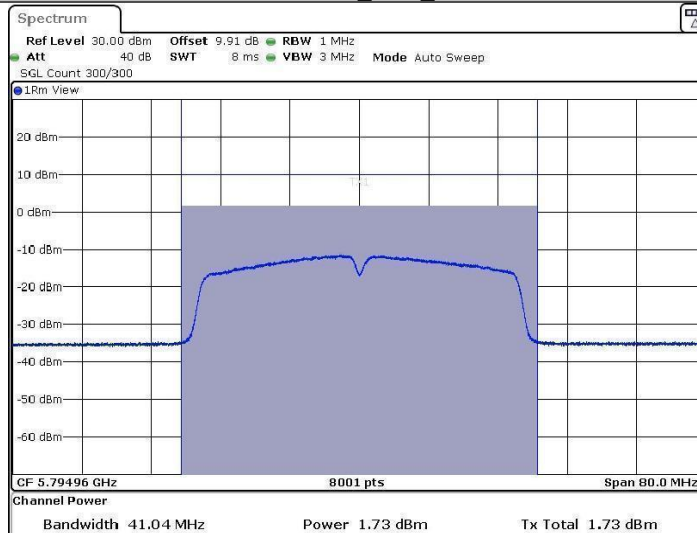
Date: 19 SEP.2022 09:43:29

11N40SISO_Ant1_5755



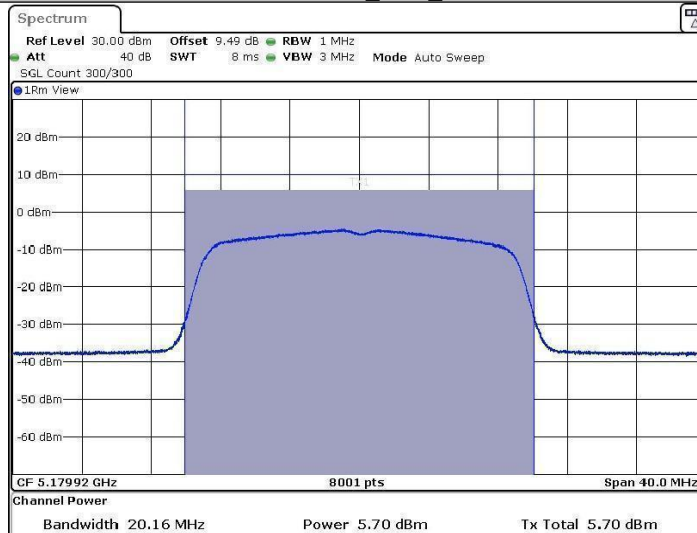
Date: 19 SEP.2022 09:49:36

11N40SISO_Ant1_5795



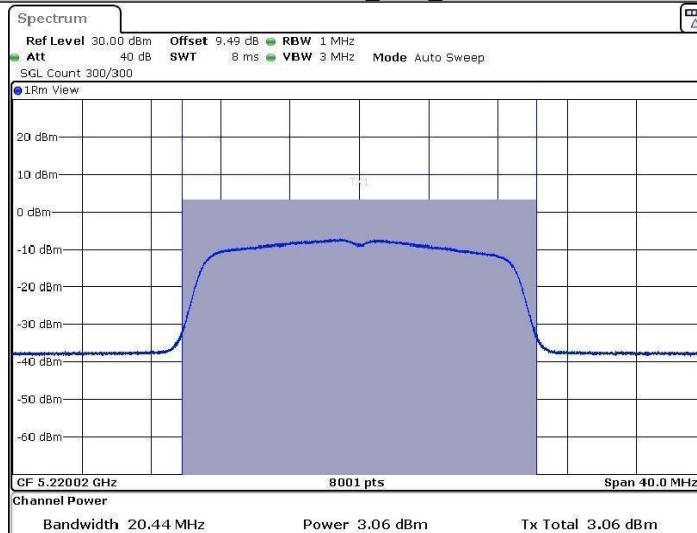
Date: 19 SEP.2022 09:55:35

11AC20SISO_Ant1_5180



Date: 19 SEP.2022 10:03:20

11AC20SISO_Ant1_5220



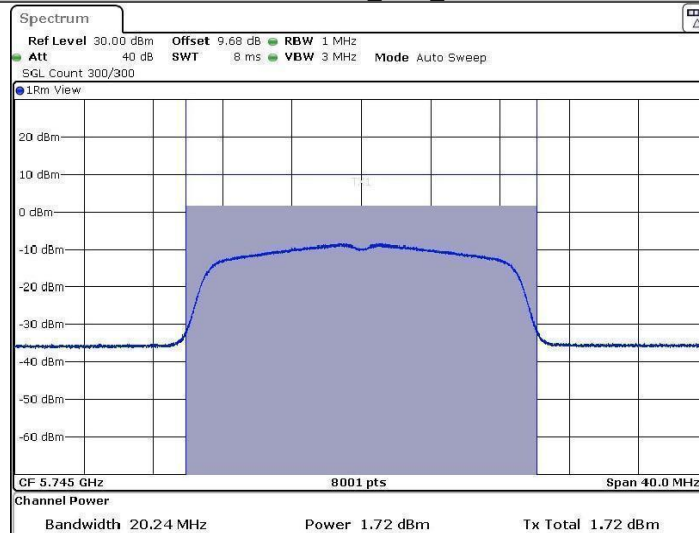
Date: 19 SEP.2022 10:03:12

11AC20SISO_Ant1_5240



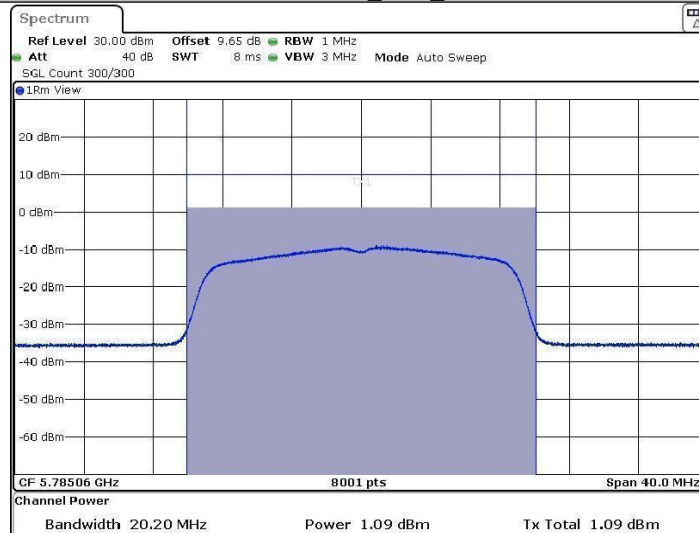
Date: 19 SEP.2022 11:15:28

11AC20SISO_Ant1_5745



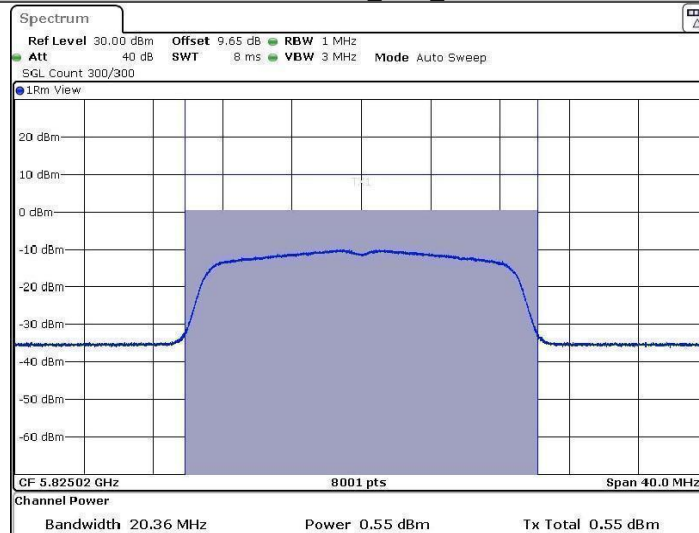
Date: 19 SEP.2022 12:12:48

11AC20SISO_Ant1_5785



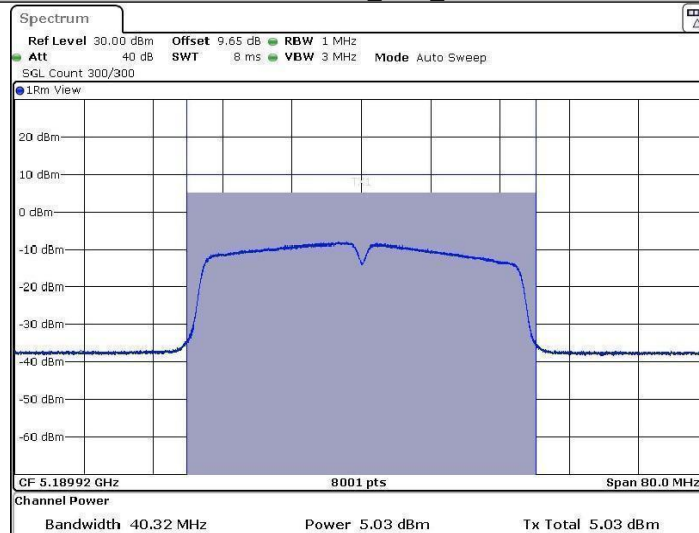
Date: 19 SEP.2022 12:15:35

11AC20SISO_Ant1_5825



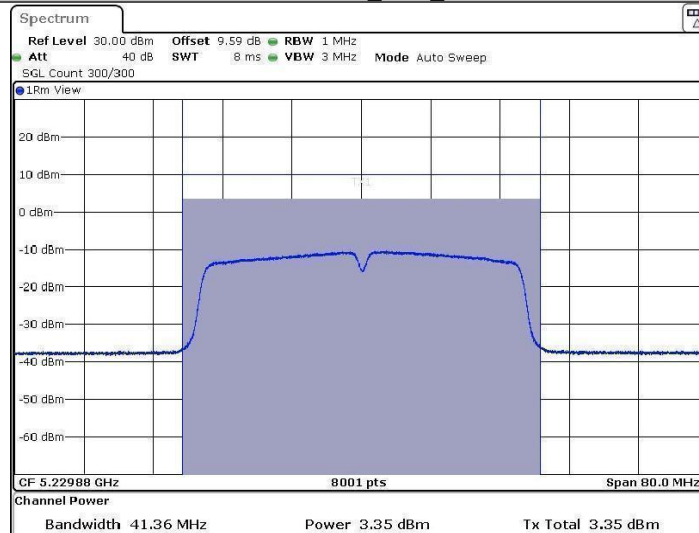
Date: 19 SEP.2022 12:17:11

11AC40SISO_Ant1_5190



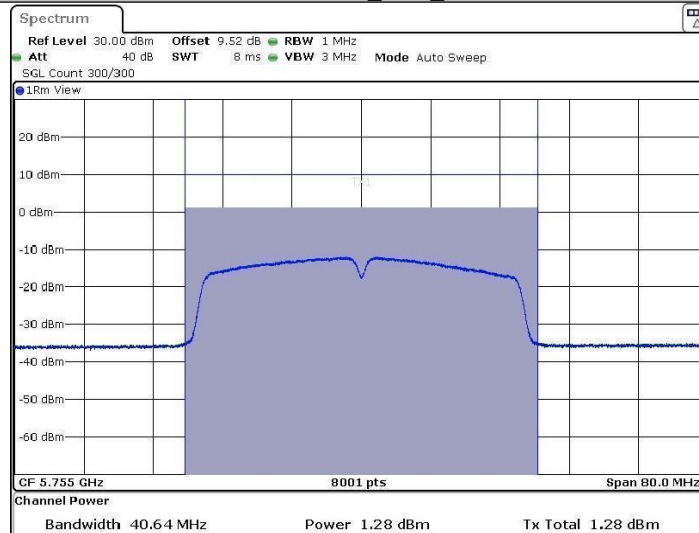
Date: 19 SEP.2022 12:19:52

11AC40SISO_Ant1_5230



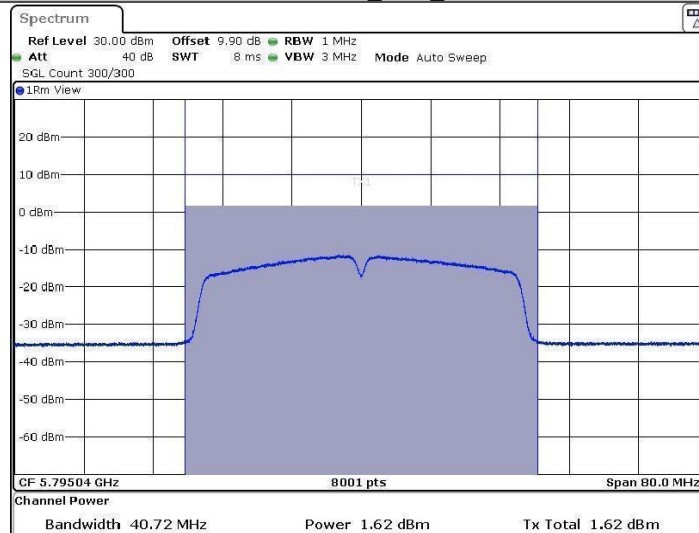
Date: 19 SEP.2022 12:22:58

11AC40SISO_Ant1_5755



Date: 19 SEP.2022 12:26:02

11AC40SISO_Ant1_5795



Date: 19 SEP.2022 12:28:46

11AC80SISO_Ant1_5210



Date: 19 SEP.2022 12:31:25

11AC80SISO_Ant1_5775



Date: 19 SEP.2022 12:35:27

Appendix C): Maximum Power Spectral Density

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

Test Method: KDB 789033 D02 II F

Test Procedure:

For 5150-5725MHz:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on operation frequency individually.
3. Set RBW = 1MHz.
4. Set the VBW $\geq 3 \times$ RBW. Detector = Peak. Trace mode = max hold.

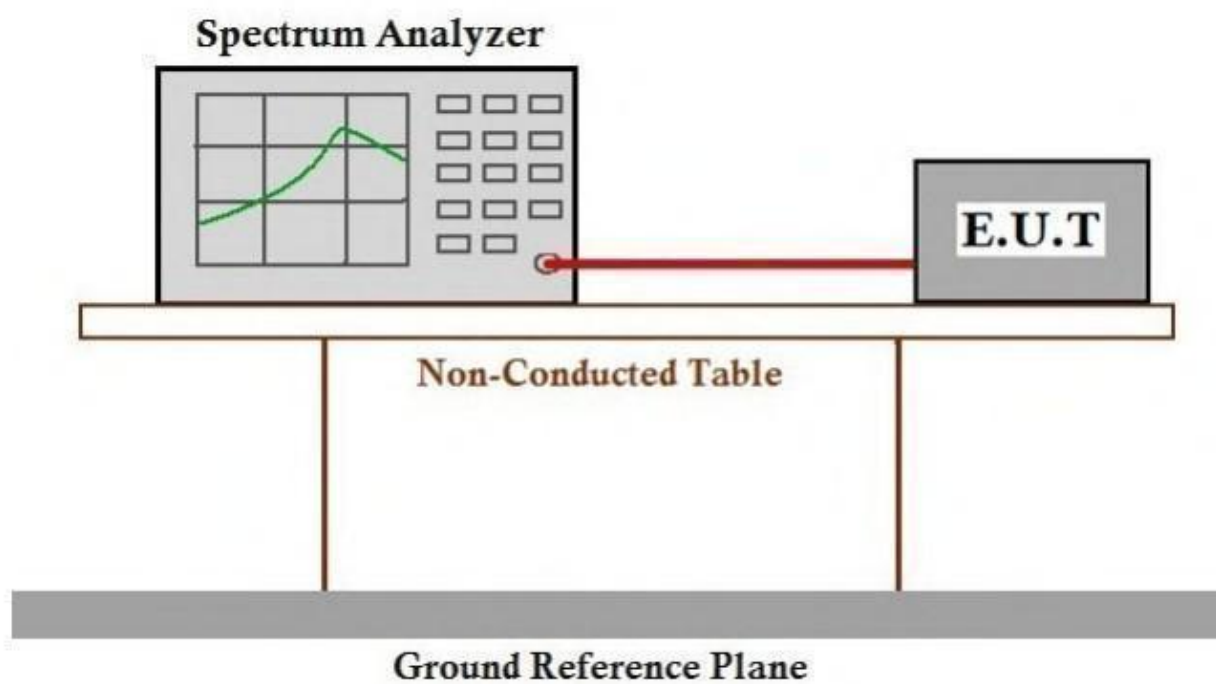
For 5725-5850MHz:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on operation frequency individually.
3. Set RBW = 500KHz.
4. Set the VBW $\geq 3 \times$ RBW. Detector = Peak. Trace mode = max hold.

Limit:

Frequency band(MHz)	Limit
5150-5250	$\leq 17\text{dBm}$ in 1MHz for master device
	$\leq 11\text{dBm}$ in 1MHz for client device
5250-5350	$\leq 11\text{dBm}$ in 1MHz for client device
5470-5725	$\leq 11\text{dBm}$ in 1MHz for client device
5725-5850	$\leq 30\text{dBm}$ in 500 kHz
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.

Test Setup Diagram



Test Result

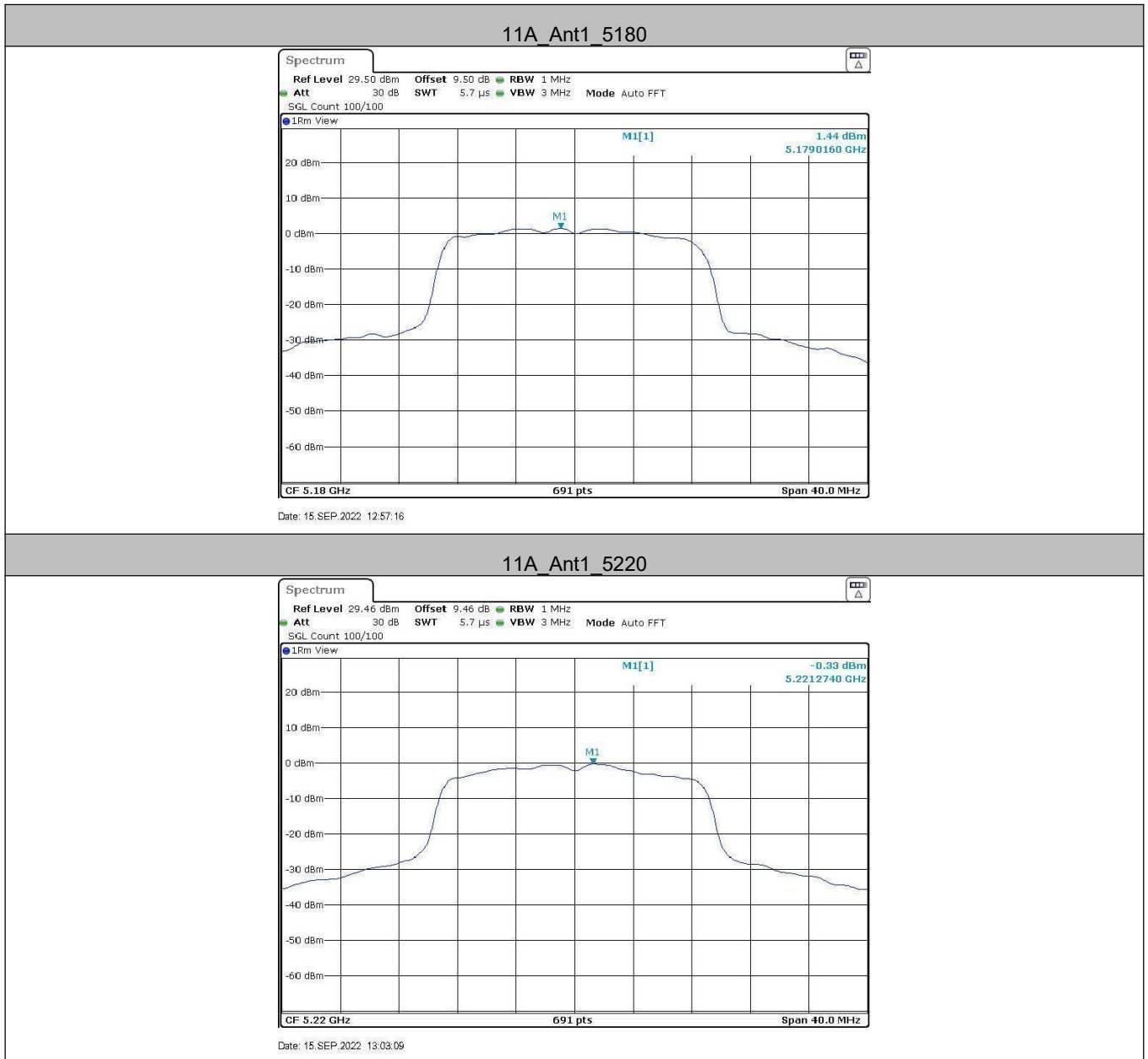
TestMode	Antenna	Channel	PSD [dBm/MHz]	Duty Cycle Factor [dB]	PSD [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	1.44	0.12	1.56	11	PASS
11A	Ant1	5220	-0.33	0.12	-0.21	11	PASS
11A	Ant1	5240	-1.05	0.12	-0.93	11	PASS
11A	Ant1	5745	-11.03	0.12	-10.91	30	PASS
11A	Ant1	5785	-10.88	0.12	-10.76	30	PASS
11A	Ant1	5825	-12.26	0.12	-12.14	30	PASS
11N20SISO	Ant1	5180	-1.5	0.17	-1.33	11	PASS
11N20SISO	Ant1	5220	-3.98	0.17	-3.81	11	PASS
11N20SISO	Ant1	5240	-3.75	0.17	-3.58	11	PASS
11N20SISO	Ant1	5745	-6.4	0.17	-6.23	30	PASS
11N20SISO	Ant1	5785	-9	0.17	-8.83	30	PASS
11N20SISO	Ant1	5825	-9.74	0.17	-9.57	30	PASS
11N40SISO	Ant1	5190	-8.41	0.26	-8.15	11	PASS
11N40SISO	Ant1	5230	-10.3	0.26	-10.04	11	PASS
11N40SISO	Ant1	5755	-14.61	0.26	-14.35	30	PASS
11N40SISO	Ant1	5795	-14.44	0.26	-14.18	30	PASS
11AC20SISO	Ant1	5180	-4.49	0.16	-4.33	11	PASS
11AC20SISO	Ant1	5220	-7.21	0.16	-7.05	11	PASS
11AC20SISO	Ant1	5240	-6.42	0.16	-6.26	11	PASS
11AC20SISO	Ant1	5745	-11.47	0.16	-11.31	30	PASS
11AC20SISO	Ant1	5785	-12.62	0.16	-12.46	30	PASS
11AC20SISO	Ant1	5825	-13.28	0.16	-13.12	30	PASS
11AC40SISO	Ant1	5190	-8.17	0.32	-7.85	11	PASS
11AC40SISO	Ant1	5230	-10.79	0.32	-10.47	11	PASS
11AC40SISO	Ant1	5755	-15.02	0.32	-14.7	30	PASS
11AC40SISO	Ant1	5795	-14.4	0.32	-14.08	30	PASS
11AC80SISO	Ant1	5210	-12.35	0.51	-11.84	11	PASS
11AC80SISO	Ant1	5775	-18.97	0.51	-18.46	30	PASS

Note: The Duty Cycle Factor is compensated in the graph.

Remark:

PSD = Meas PSD + Duty Cycle Factor

Test Graphs



11A_Ant1_5240



Date: 15 SEP.2022 13:07:46

11A_Ant1_5745



Date: 20 SEP.2022 03:20:02

11A_Ant1_5785



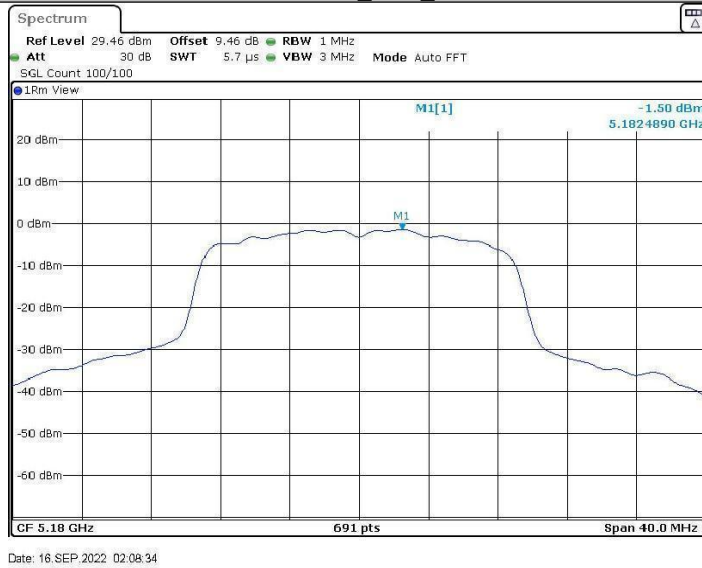
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11A_Ant1_5825



Date: 20 SEP.2022 03:25:31

11N20SISO_Ant1_5180



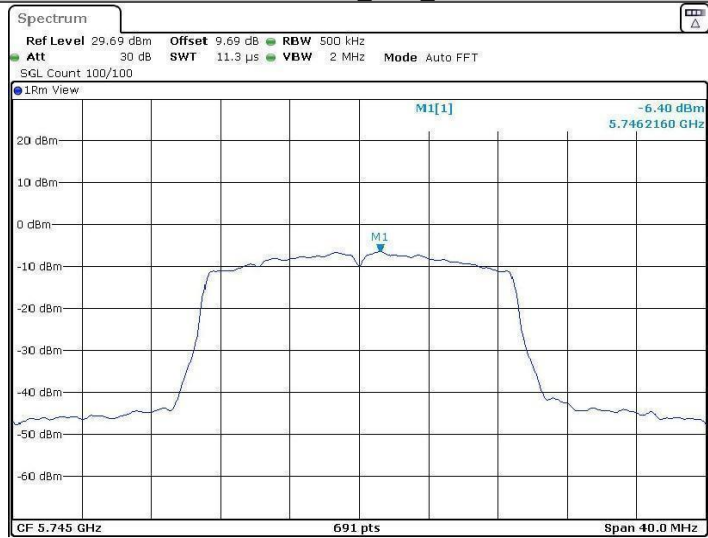
11N20SISO_Ant1_5220



11N20SISO_Ant1_5240



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



Date: 16 SEP.2022 02:31:17

11N20SISO_Ant1_5825



Date: 16 SEP.2022 02:41:36

11N40SISO_Ant1_5190



Date: 19 SEP.2022 09:37:09

11N40SISO_Ant1_5230



Date: 19 SEP.2022 09:43:36

11N40SISO_Ant1_5755



Date: 19 SEP. 2022 09:48:43

11N40SISO_Ant1_5795



Date: 19 SEP. 2022 09:55:42

11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5220



11AC20SISO_Ant1_5240



Date: 19 SEP. 2022 11:15:35

11AC20SISO_Ant1_5745



Date: 19 SEP. 2022 12:12:55

11AC20SISO_Ant1_5785



Date: 19 SEP. 2022 12:15:41

11AC20SISO_Ant1_5825



Date: 19 SEP. 2022 12:17:18

11AC40SISO_Ant1_5190



Date: 19 SEP. 2022 12:19:59

11AC40SISO_Ant1_5230



Date: 19 SEP. 2022 12:23:05

11AC40SISO_Ant1_5755



Date: 19 SEP. 2022 12:26:09

11AC40SISO_Ant1_5795



Date: 19 SEP. 2022 12:28:53

11AC80SISO_Ant1_5210



Date: 19 SEP. 2022 12:31:32

11AC80SISO_Ant1_5775



Date: 19 SEP. 2022 12:35:34

Appendix D): Band Edge Measurements

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.407(b)

Test Method: KDB 789033 D02 II G

Test Procedure:

1. The EUT operates at transmitting mode. The operate channel is tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
2. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz ; VBW=1/on time(1KHz) / Sweep=AUTO

Limit:

For transmitters operating in the 5.15-5.25 GHz band:	All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).
For transmitters operating in the 5.25-5.35 GHz band:	All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).
For transmitters operating in the 5.47-5.725 GHz band:	All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).
For transmitters operating in the 5.725-5.85 GHz band:	(i) All emissions shall be limited to a level of -27 dBm/MHz (68.2dBuV/m) at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz (105.2dBuV/m) at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz (110.8dBuV/m) at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz (122.2dBuV/m) at the band edge.