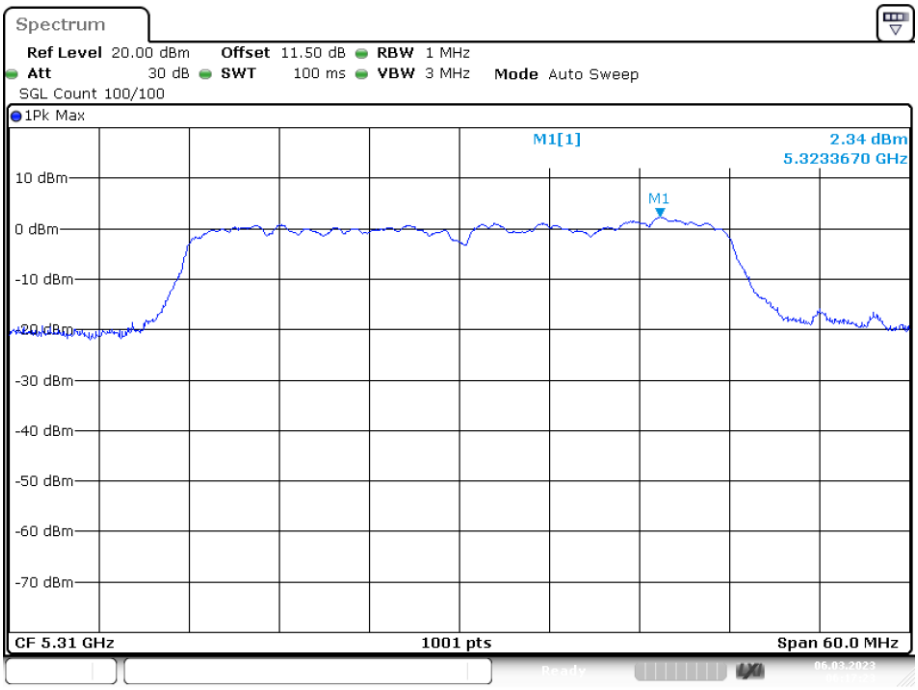
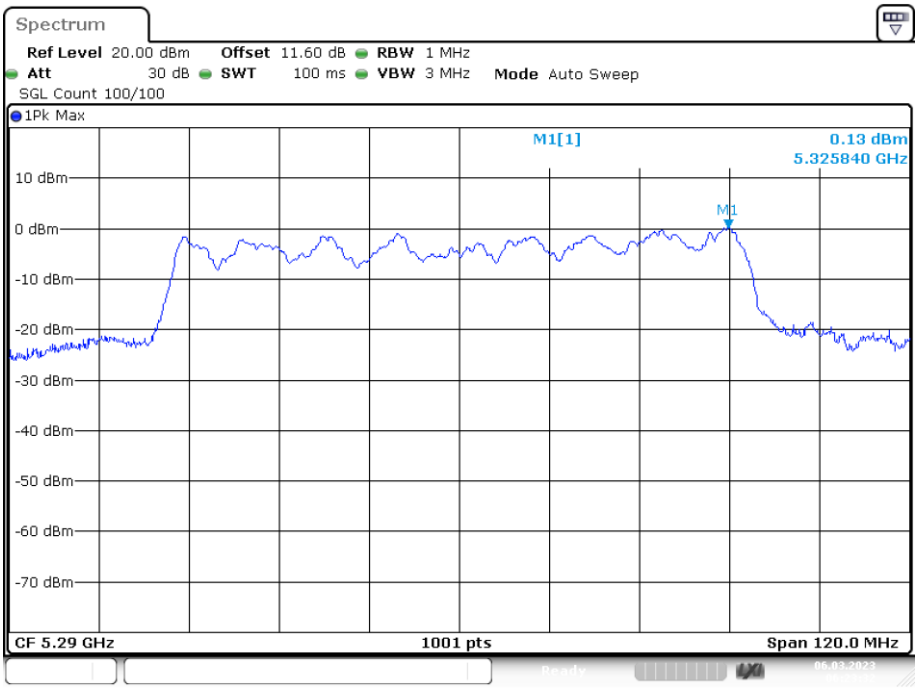
PSD NVNT ac40 5310MHz Ant1



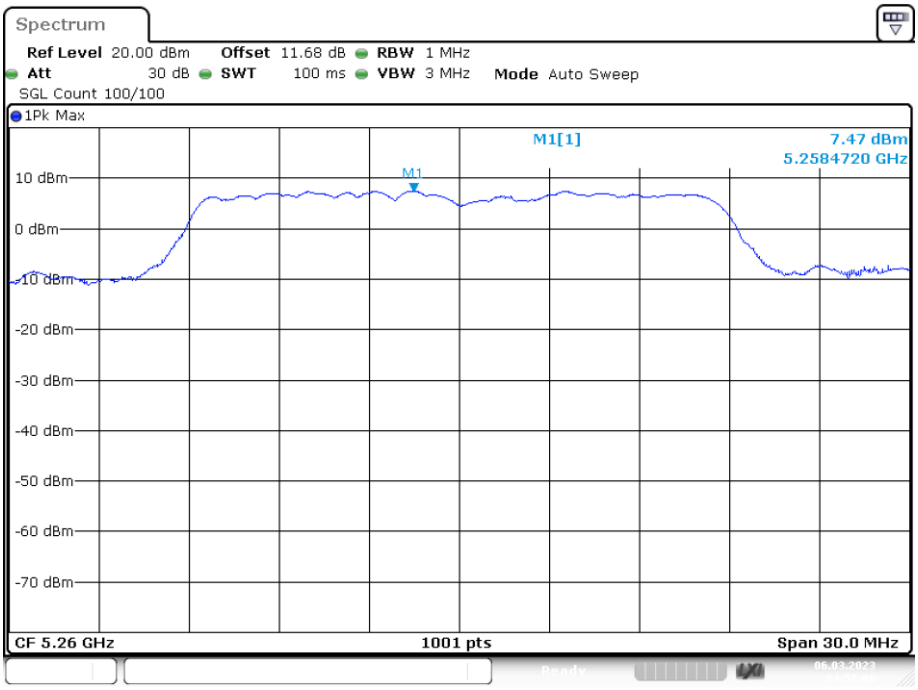
Date: 6.MAR.2023 06:17:23

PSD NVNT ac80 5290MHz Ant1



Date: 6.MAR.2023 06:23:31

PSD NVNT n20 5260MHz Ant1



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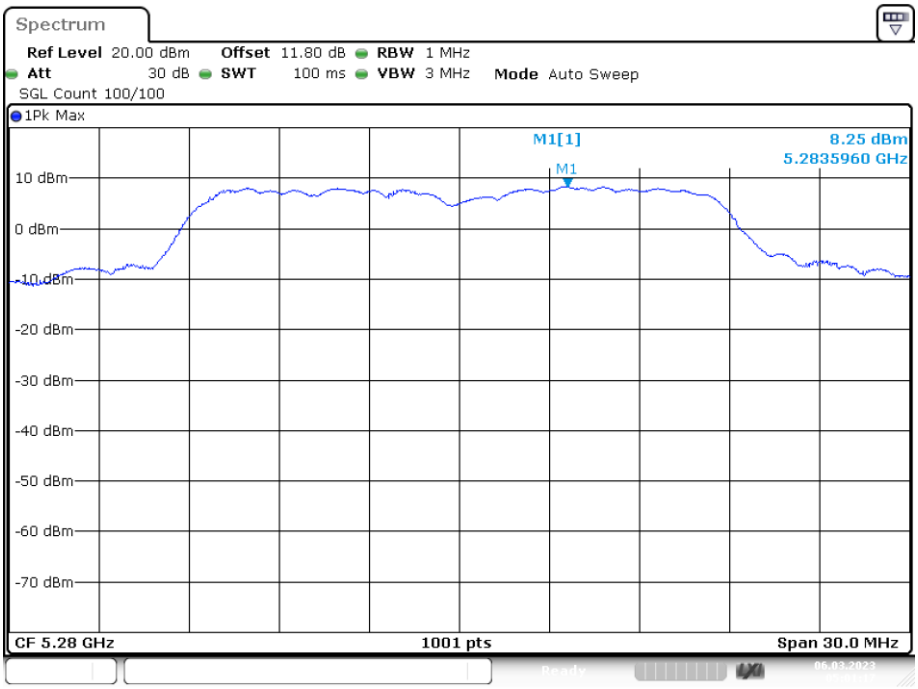
PSD NVNT n20 5280MHz Ant1



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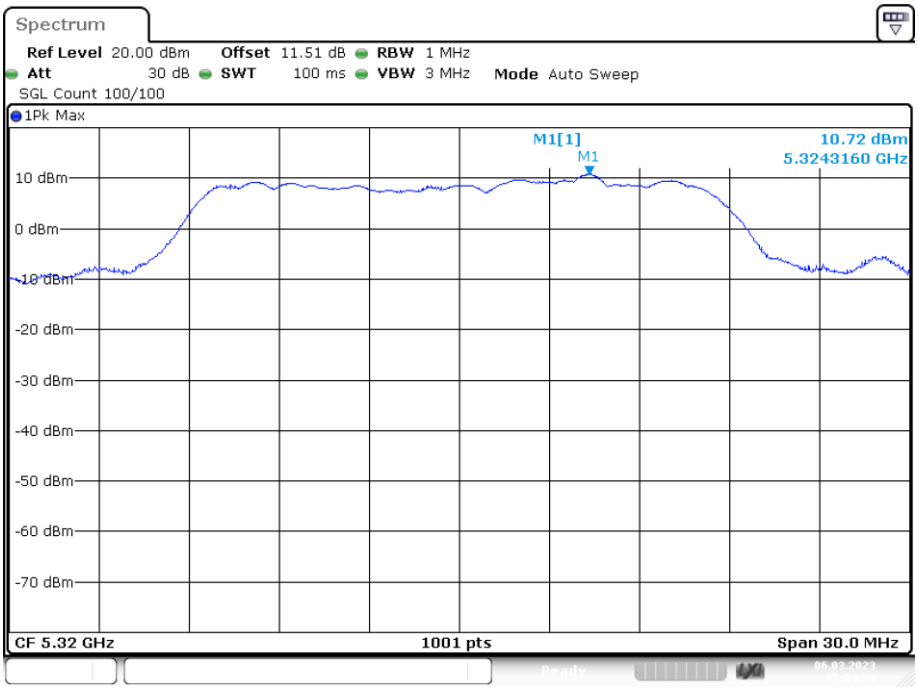
PSD NVNT n20 5320MHz Ant1



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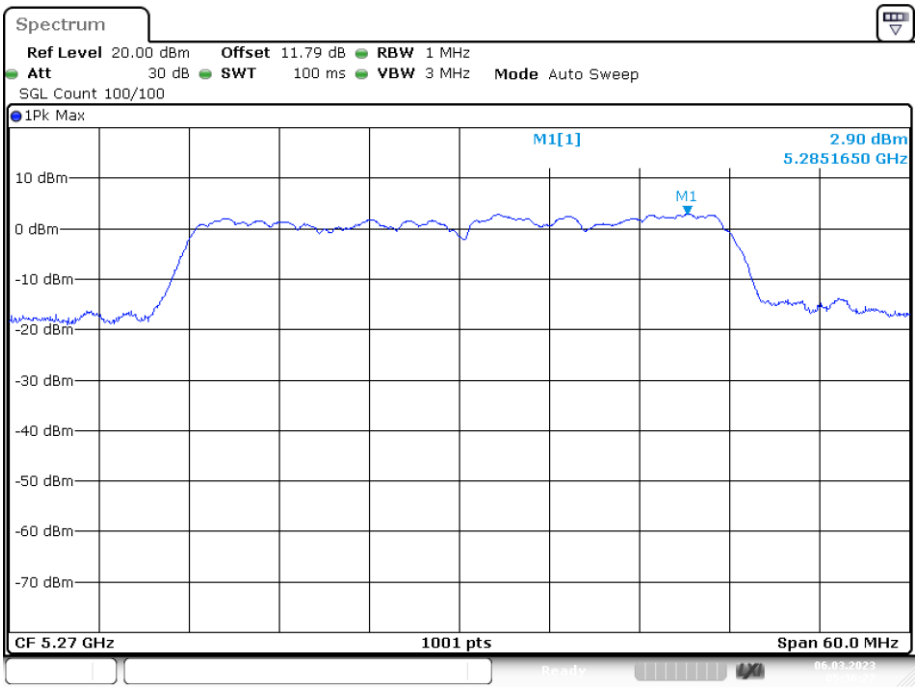
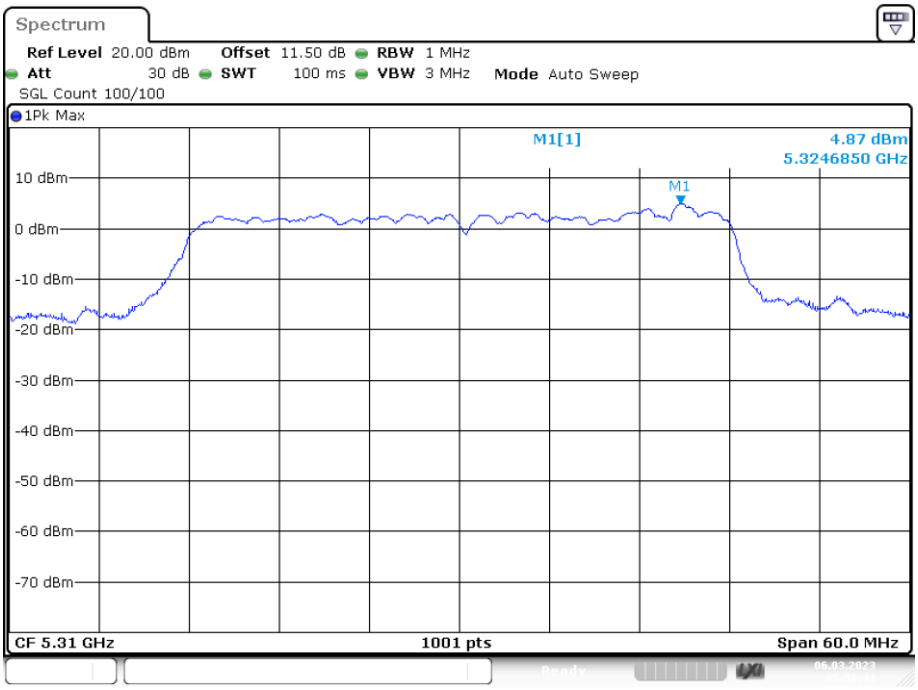
PSD NVNT n40 5270MHz Ant1



Date: 6.MAR.2023 05:36:27

PSD NVNT n40 5310MHz Ant1

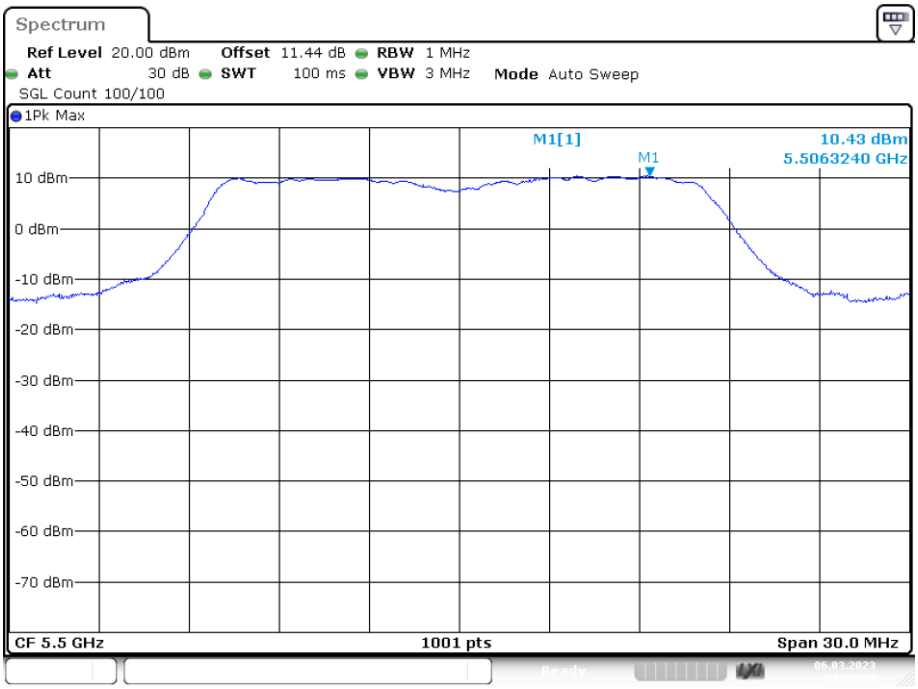


Date: 6.MAR.2023 05:58:41

Band 3 (5740 -5725 MHz)

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant1	10.43	11	Pass
NVNT	a	5580	Ant1	8.028	11	Pass
NVNT	a	5700	Ant1	6.763	11	Pass
NVNT	ac20	5500	Ant1	10.875	11	Pass
NVNT	ac20	5580	Ant1	9.706	11	Pass
NVNT	ac20	5700	Ant1	6.776	11	Pass
NVNT	ac40	5510	Ant1	6.432	11	Pass
NVNT	ac40	5670	Ant1	5.638	11	Pass
NVNT	ac80	5530	Ant1	4.743	11	Pass
NVNT	n20	5500	Ant1	10.765	11	Pass
NVNT	n20	5580	Ant1	8.754	11	Pass
NVNT	n20	5700	Ant1	6.481	11	Pass
NVNT	n40	5510	Ant1	7.216	11	Pass
NVNT	n40	5670	Ant1	5.91	11	Pass

PSD NVNT a 5500MHz Ant1



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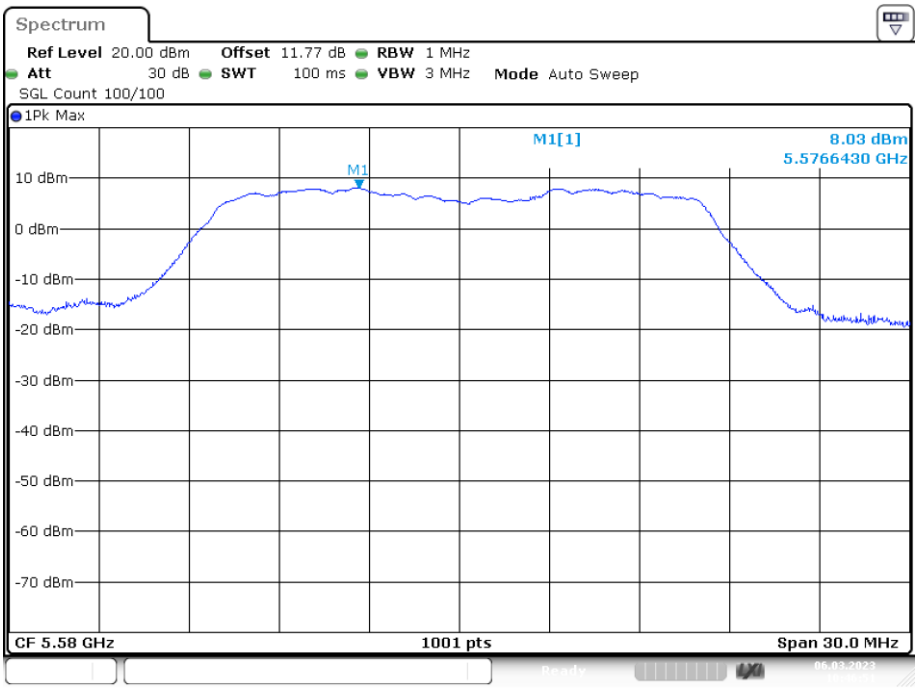
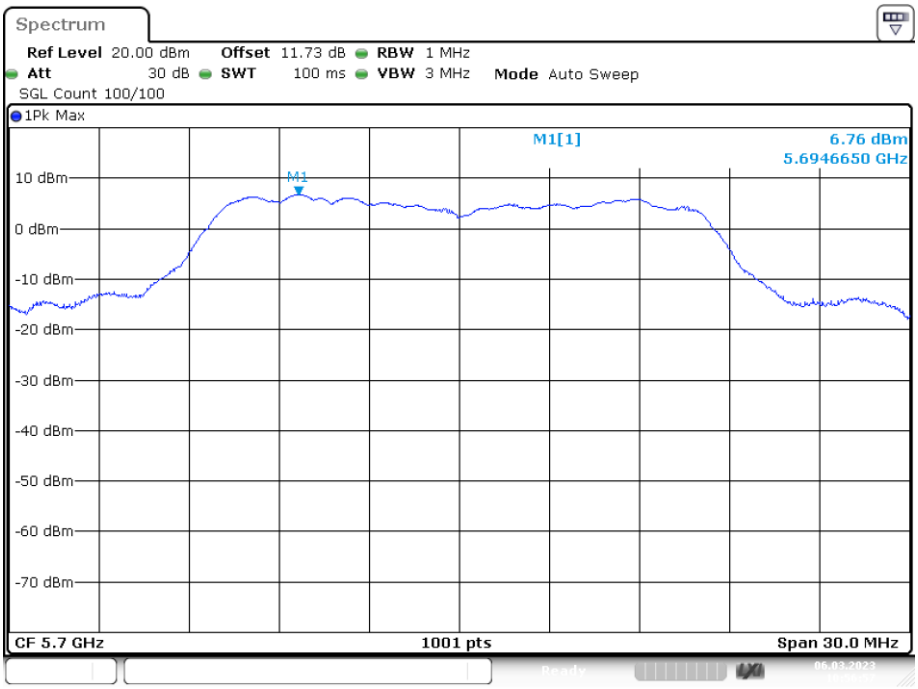
PSD NVNT a 5580MHz Ant1



Date: 6.MAR.2023 10:46:51

PSD NVNT a 5700MHz Ant1



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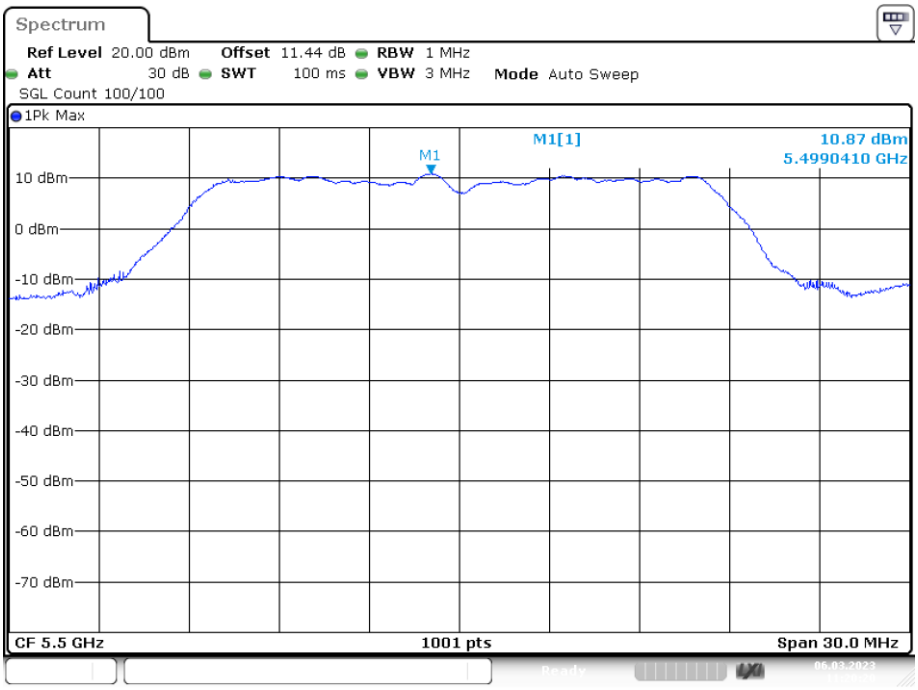
PSD NVNT ac20 5500MHz Ant1



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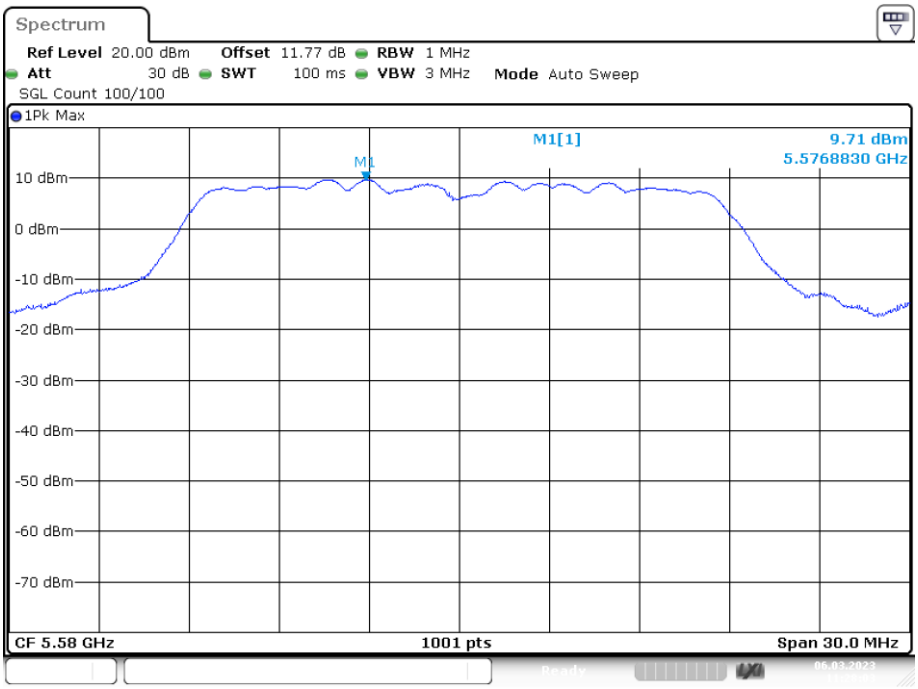
PSD NVNT ac20 5580MHz Ant1



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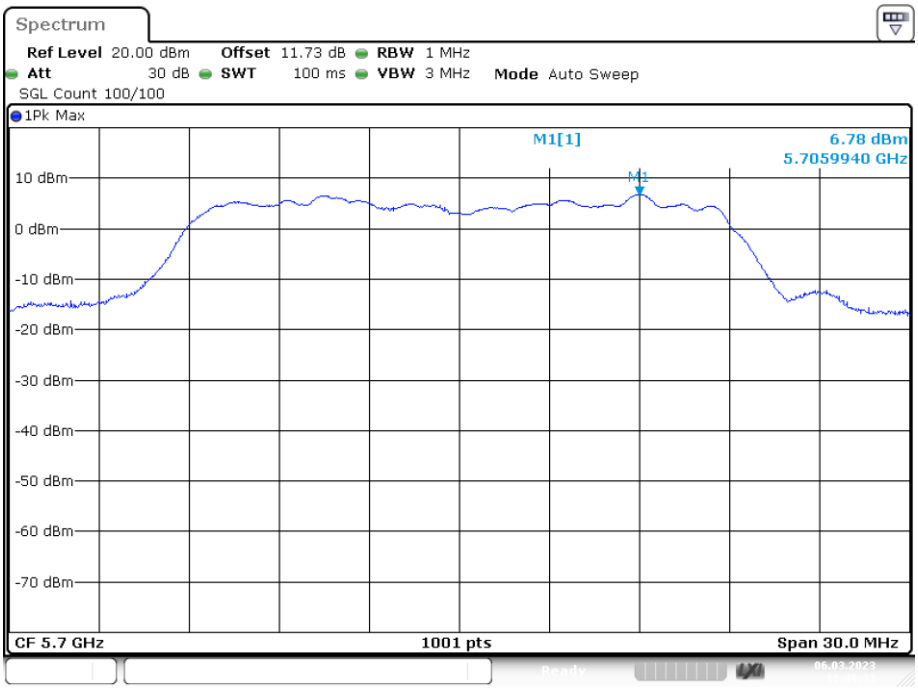
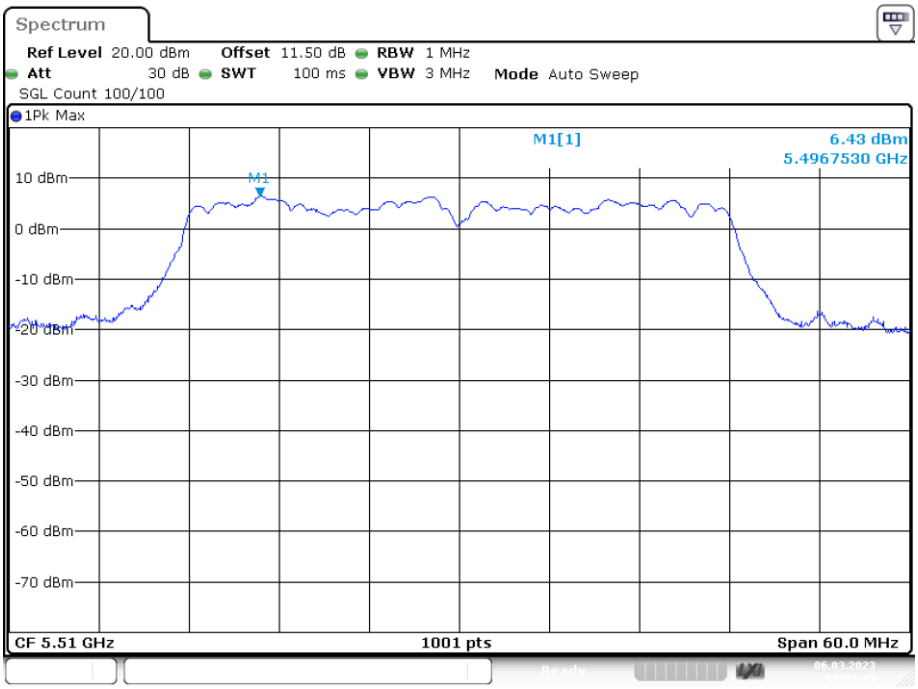
PSD NVNT ac20 5700MHz Ant1



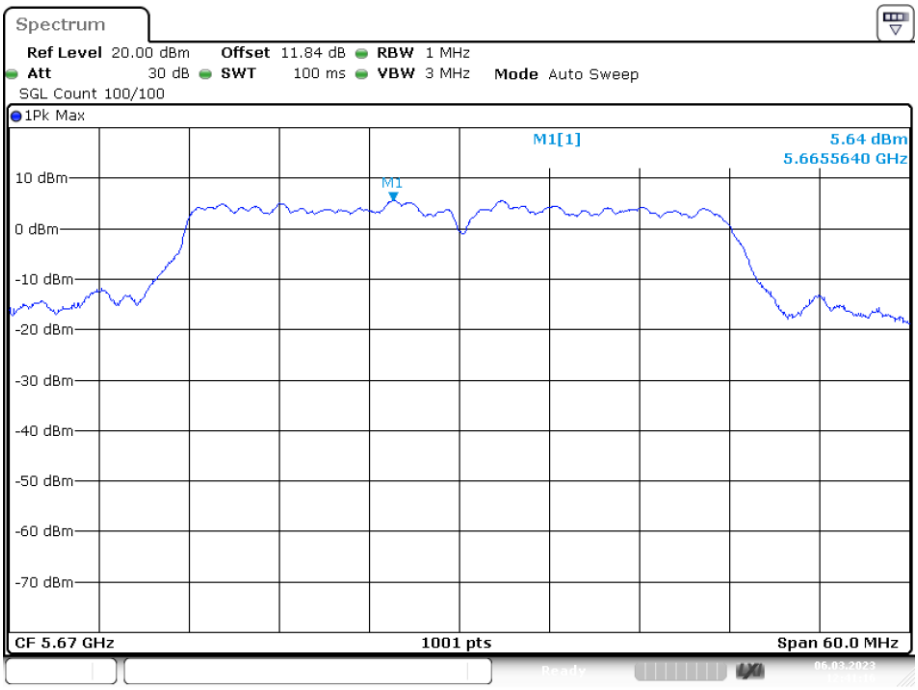
Date: 6.MAR.2023 11:49:33

PSD NVNT ac40 5510MHz Ant1



Date: 6.MAR.2023 12:31:44

PSD NVNT ac40 5670MHz Ant1



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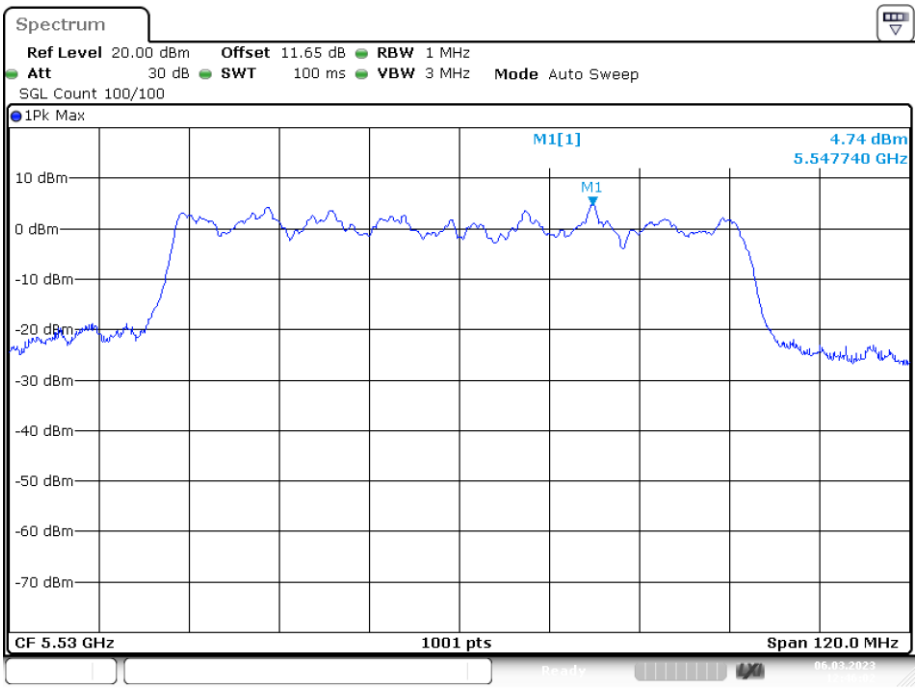
PSD NVNT ac80 5530MHz Ant1



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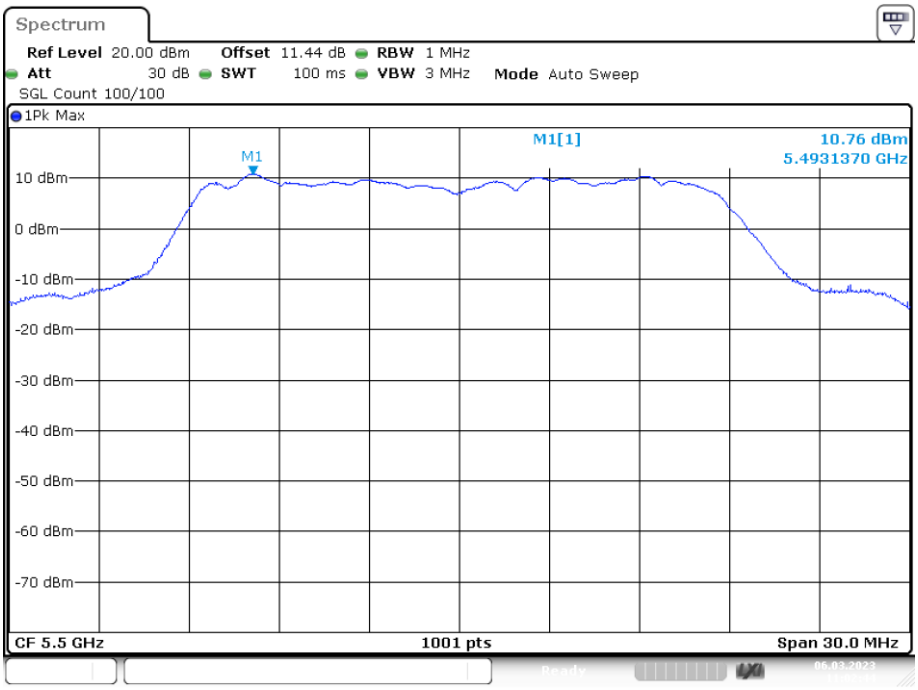
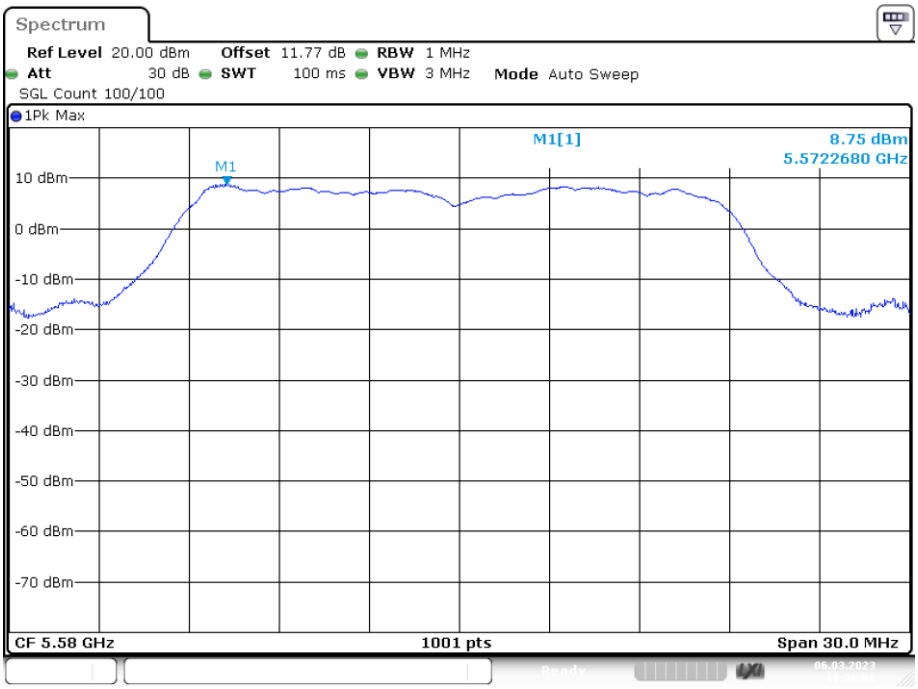


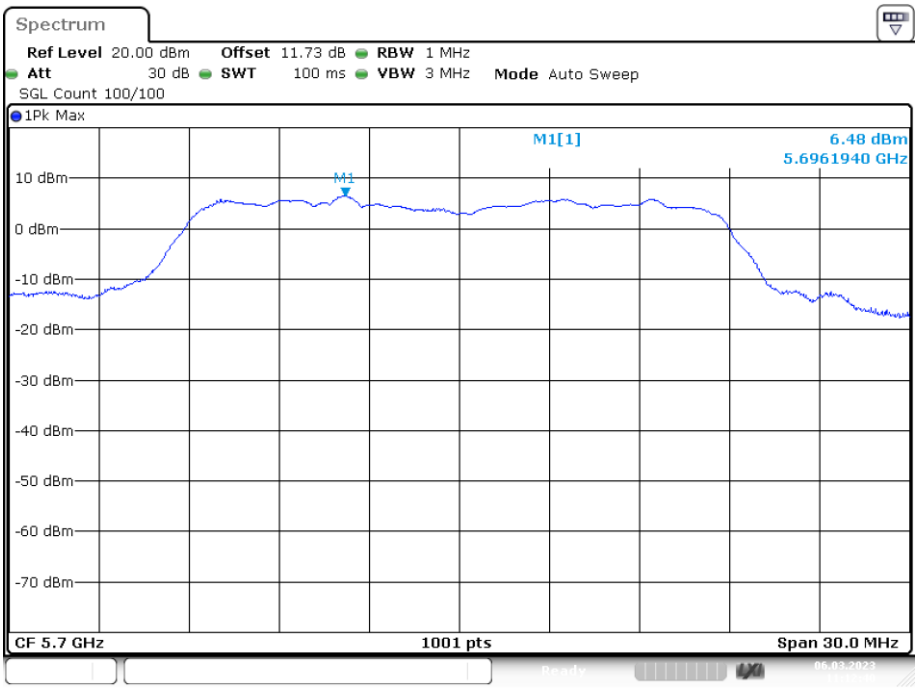
Date: 6.MAR.2023 11:02:44

PSD NVNT n20 5580MHz Ant1



Date: 6.MAR.2023 11:06:07

PSD NVNT n20 5700MHz Ant1



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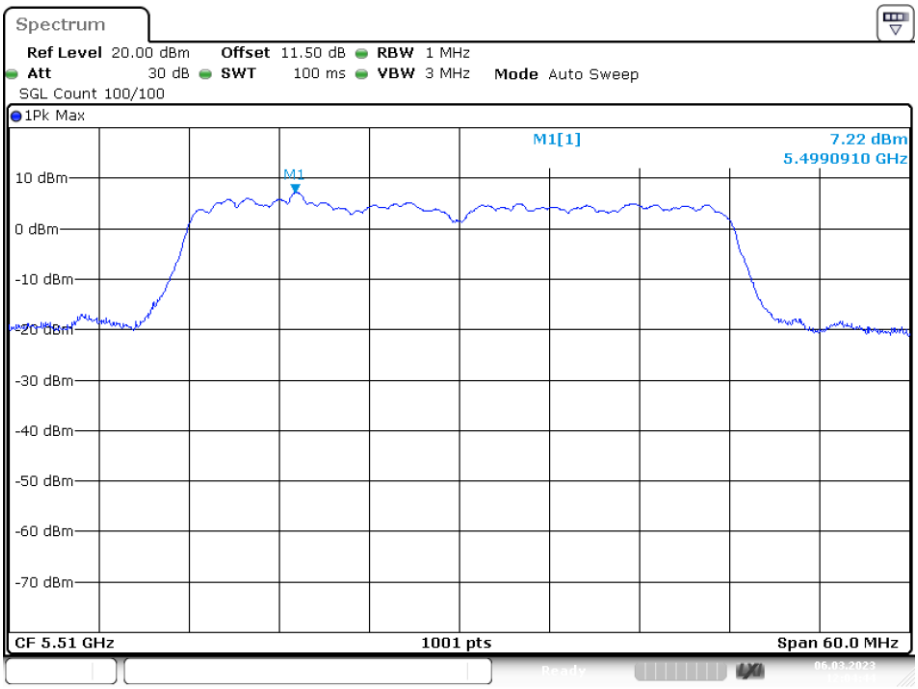
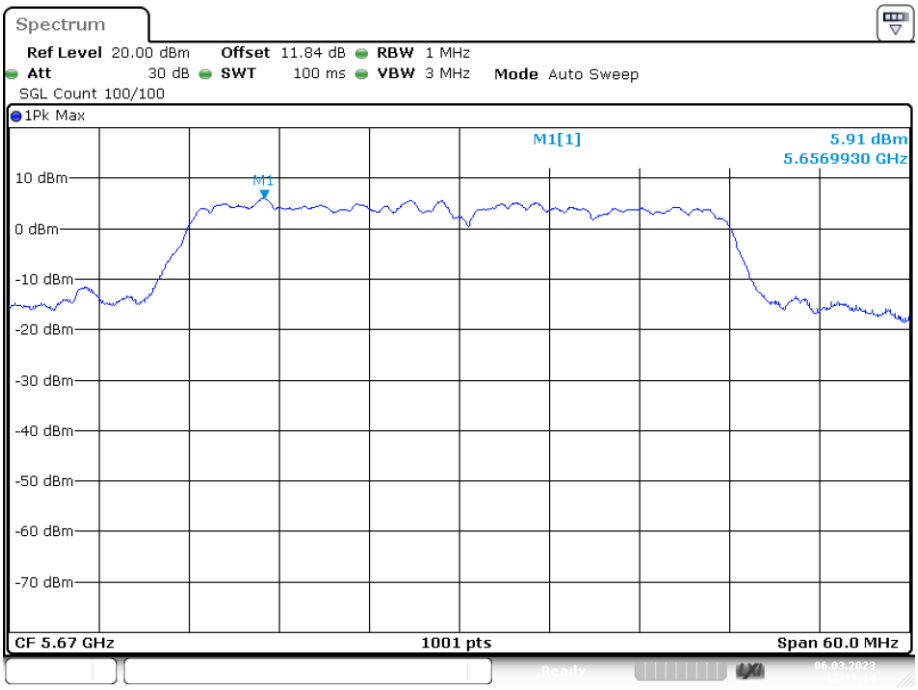
PSD NVNT n40 5510MHz Ant1



Date: 6.MAR.2023 12:04:44

PSD NVNT n40 5670MHz Ant1

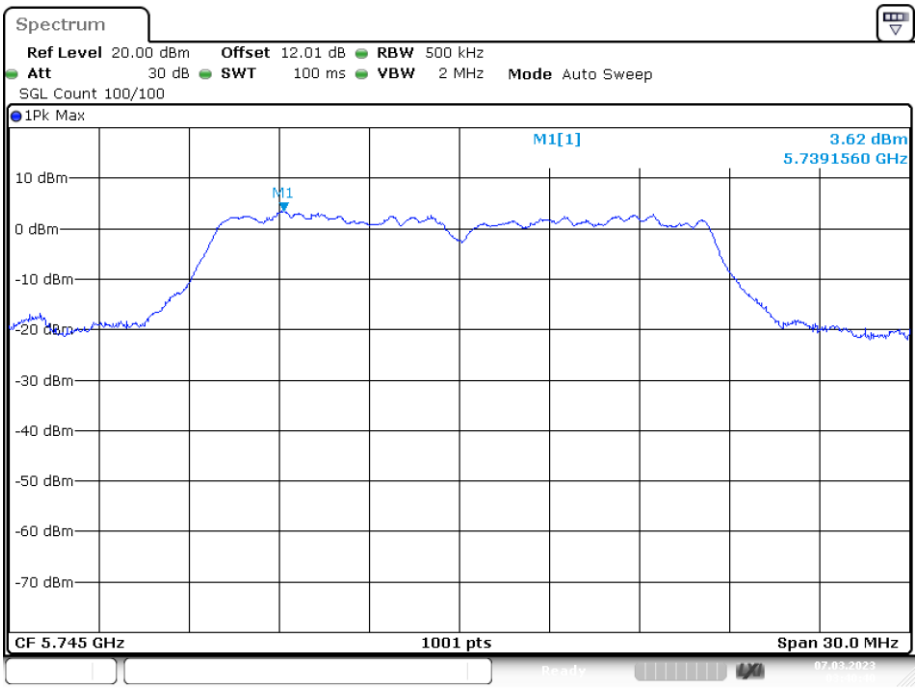


Date: 6.MAR.2023 12:13:14

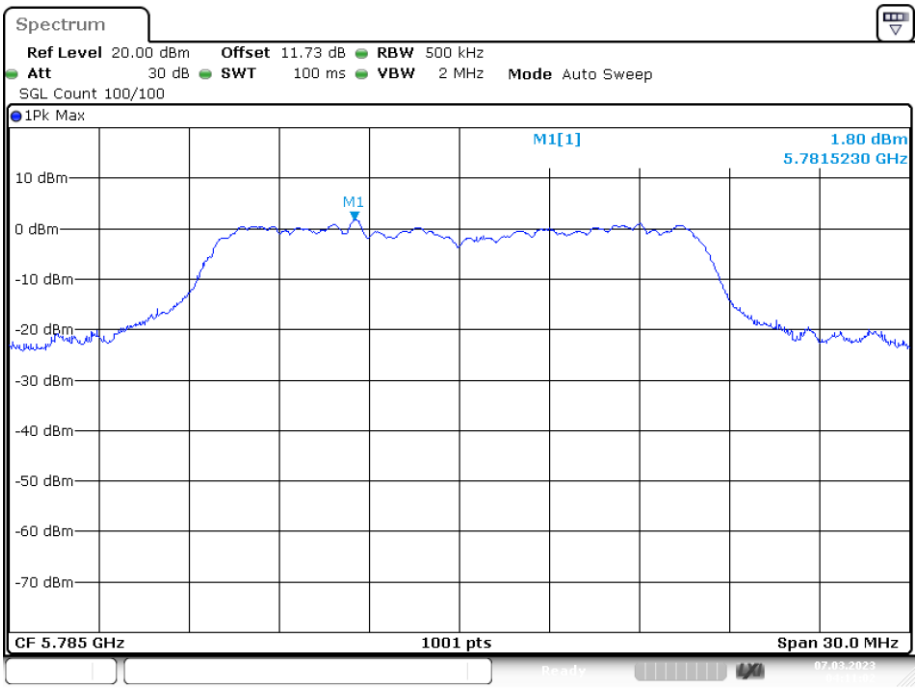
Band 4 (5725 – 5850 MHz)

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	3.617	30	Pass
NVNT	a	5785	Ant1	1.8	30	Pass
NVNT	a	5825	Ant1	0.648	30	Pass
NVNT	ac20	5745	Ant1	2.525	30	Pass
NVNT	ac20	5785	Ant1	1.636	30	Pass
NVNT	ac20	5825	Ant1	-0.576	30	Pass
NVNT	ac40	5755	Ant1	-0.356	30	Pass
NVNT	ac40	5795	Ant1	-0.064	30	Pass
NVNT	ac80	5775	Ant1	-2.519	30	Pass
NVNT	n20	5745	Ant1	2.794	30	Pass
NVNT	n20	5785	Ant1	1.146	30	Pass
NVNT	n20	5825	Ant1	-0.444	30	Pass
NVNT	n40	5755	Ant1	0.345	30	Pass
NVNT	n40	5795	Ant1	-1.821	30	Pass

PSD NVNT a 5745MHz Ant1



PSD NVNT a 5785MHz Ant1



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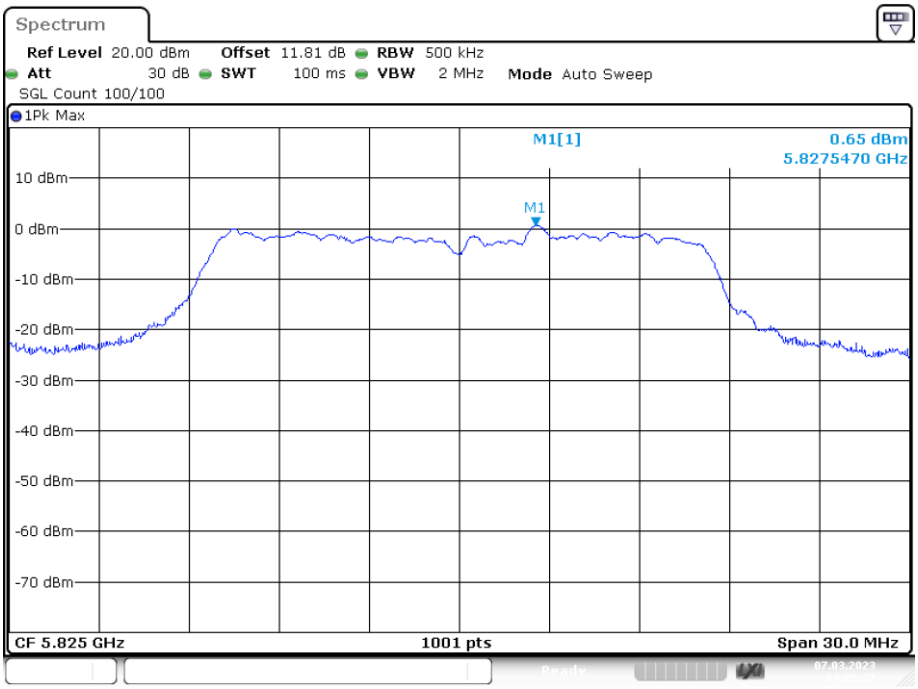
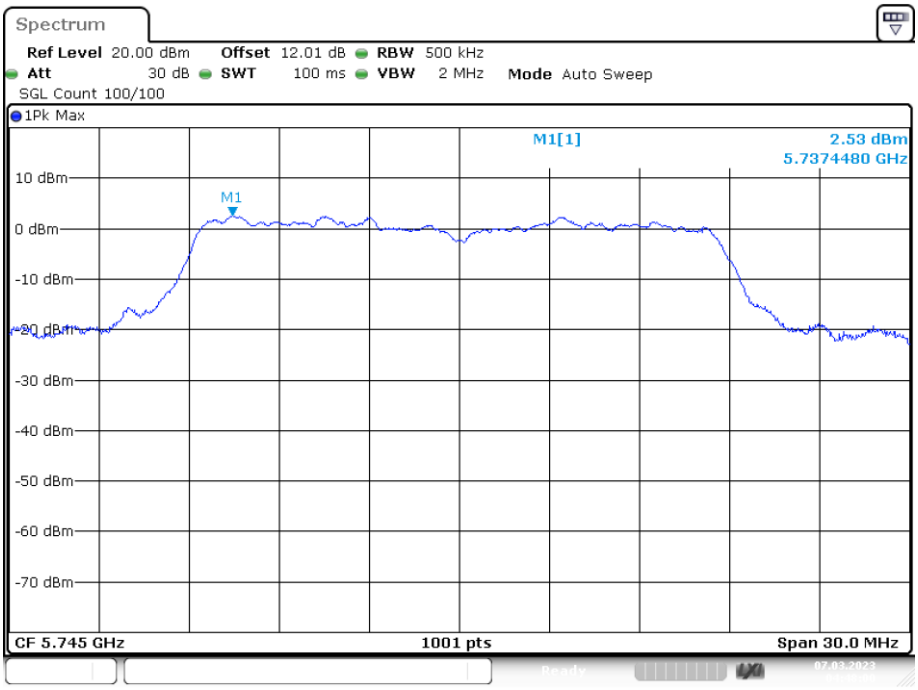


Date: 7.MAR.2023 04:25:27

PSD NVNT ac20 5745MHz Ant1



Date: 7.MAR.2023 04:48:00

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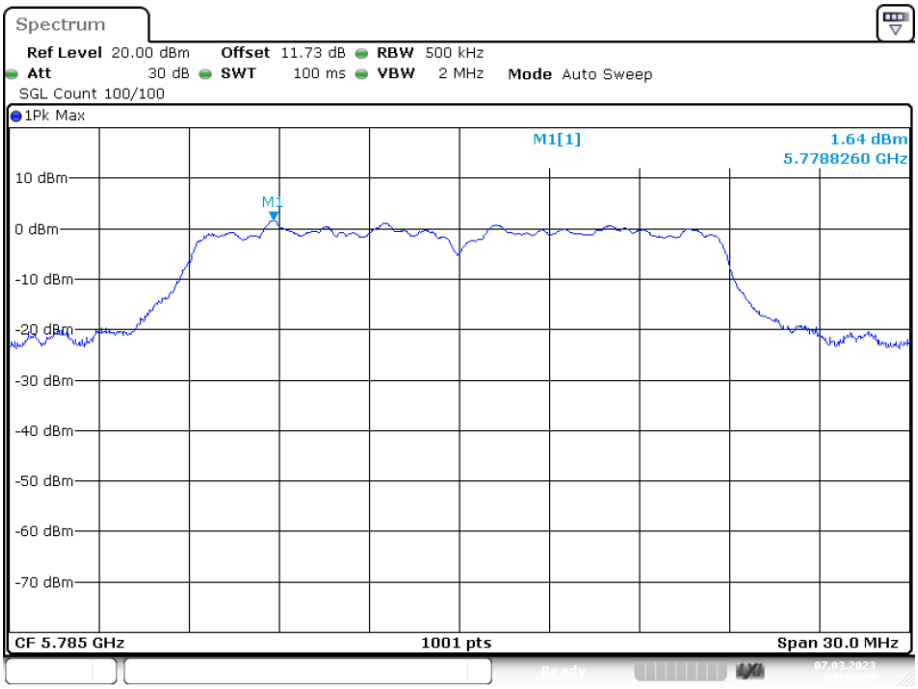

Date: 7.MAR.2023 05:10:26

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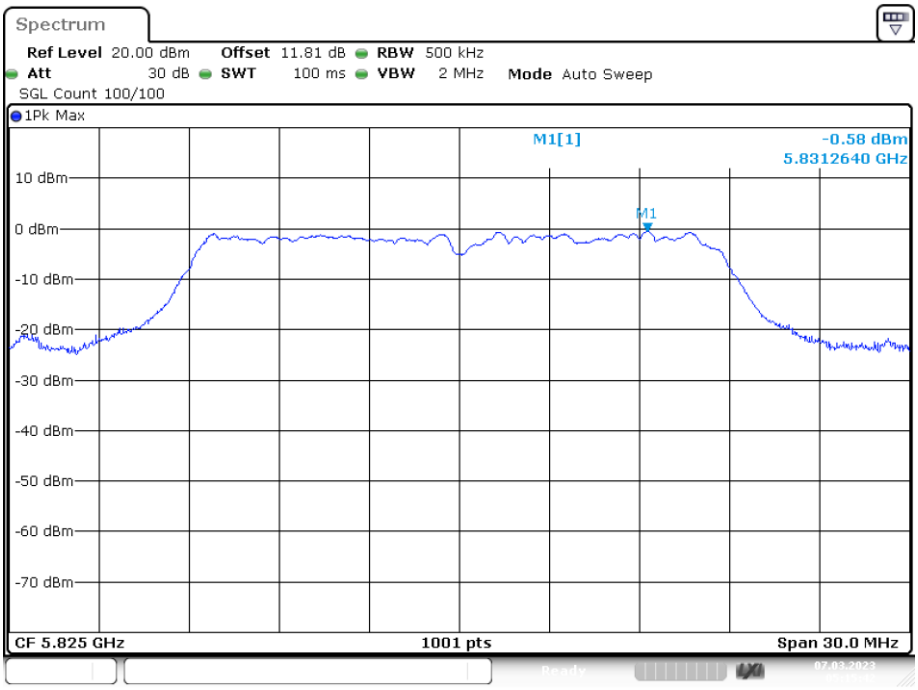

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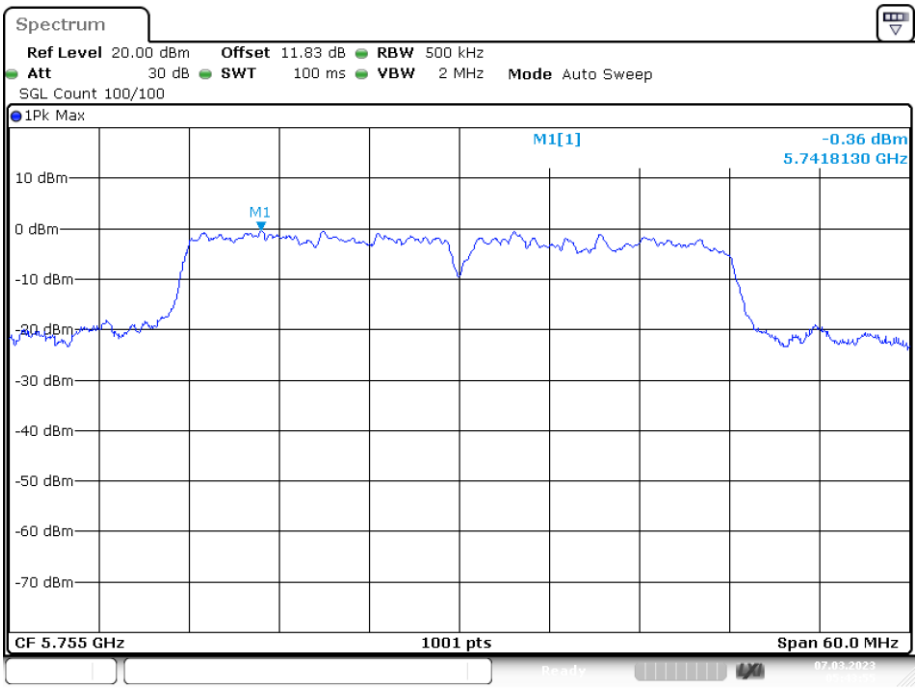

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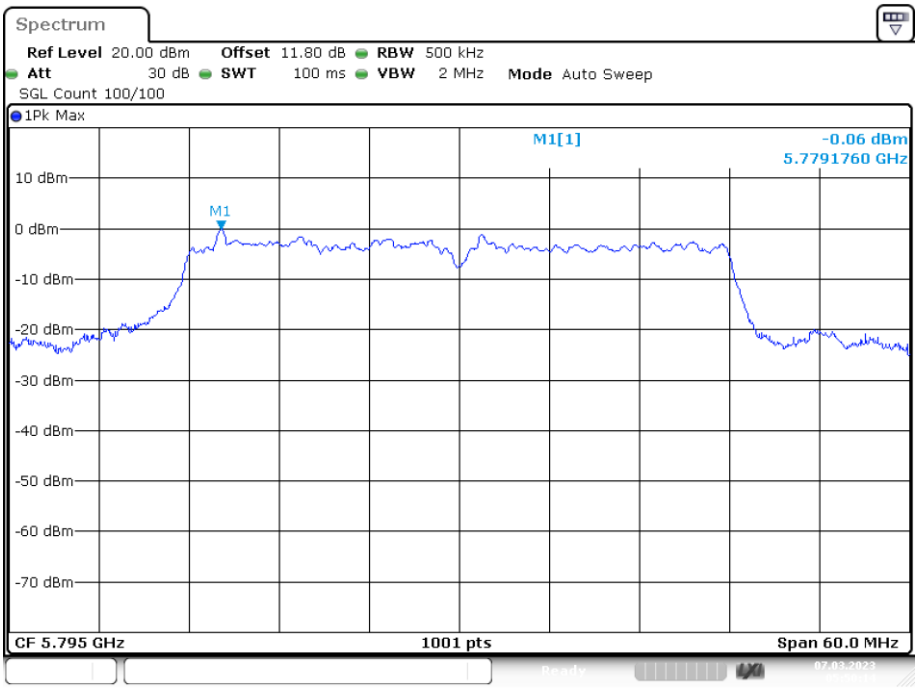
PSD NVNT ac40 5795MHz Ant1



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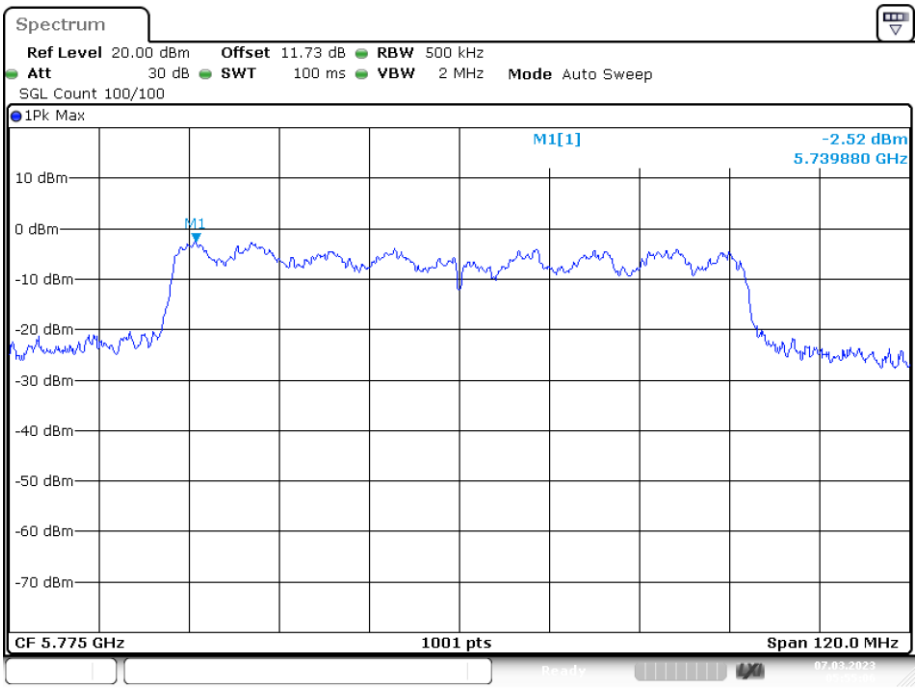

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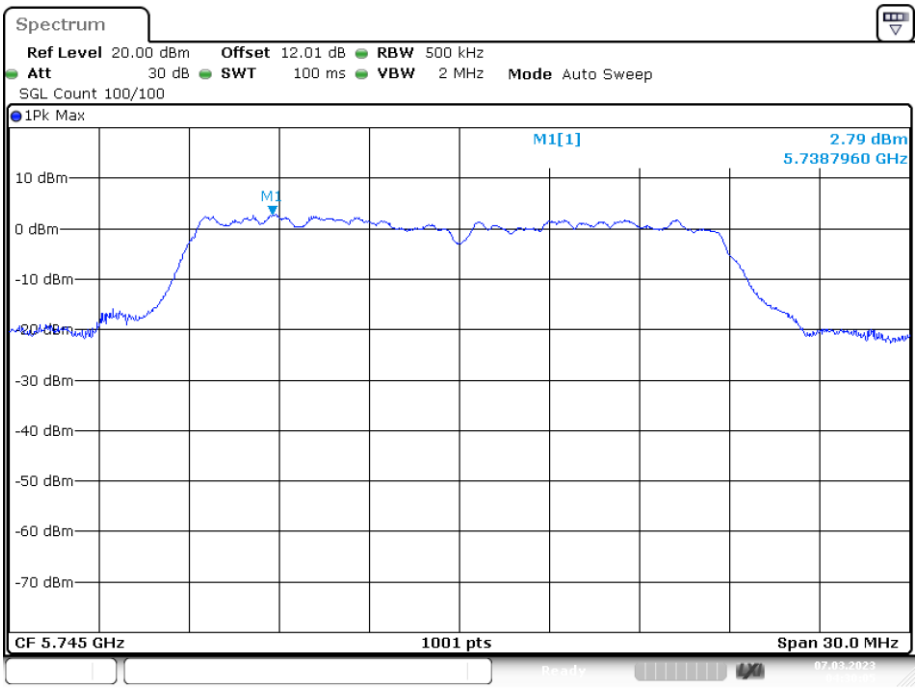

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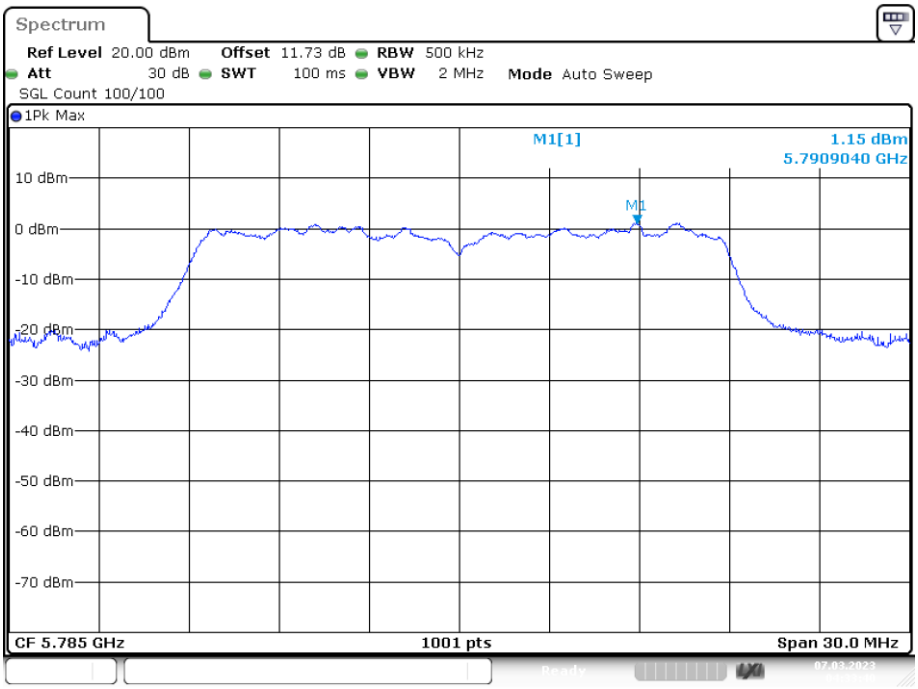

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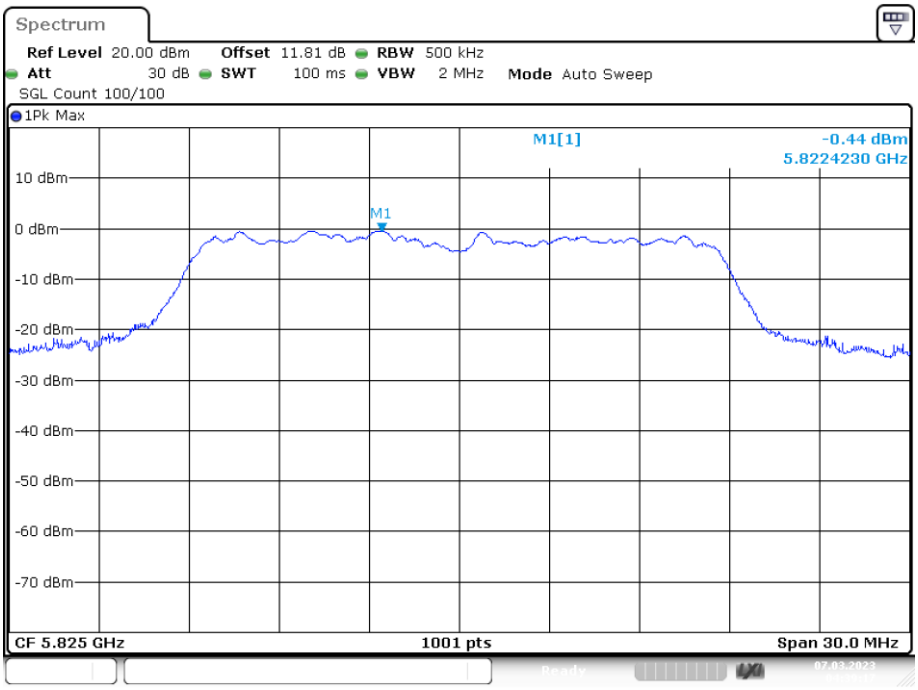

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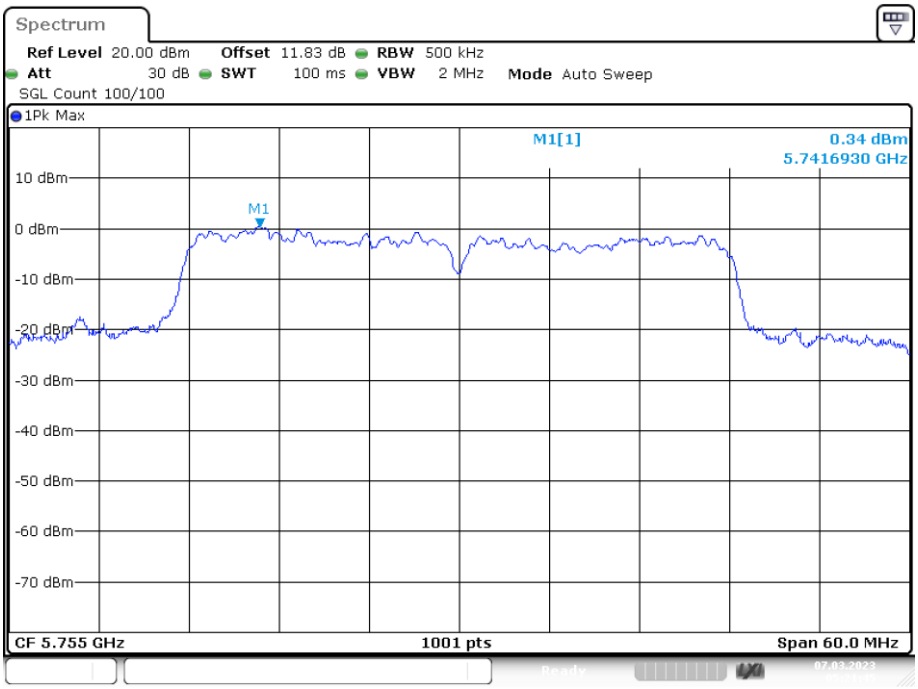
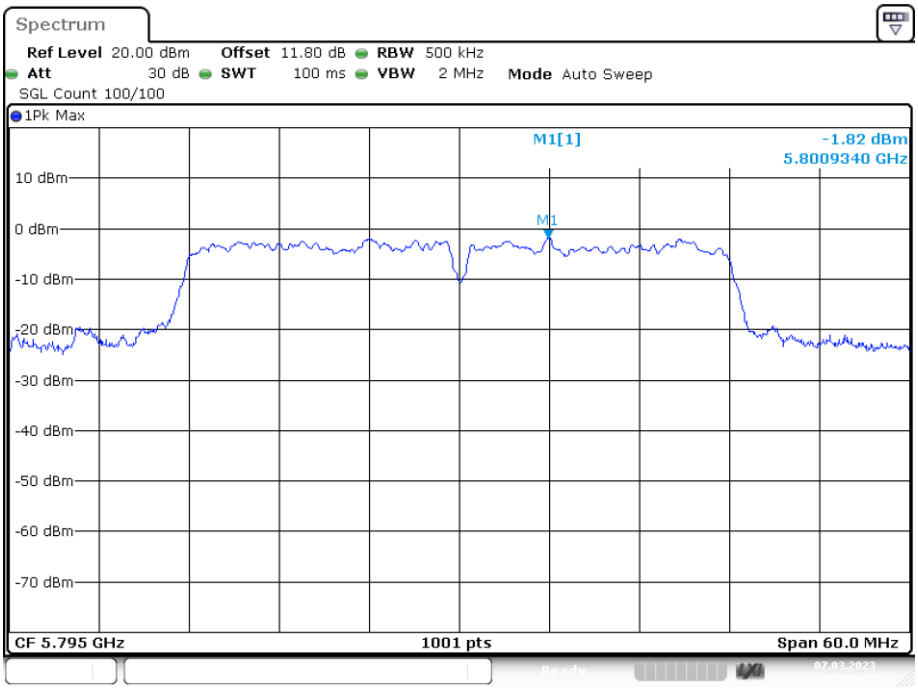


Date: 7.MAR.2023 05:21:44

PSD NVNT n40 5795MHz Ant1



Date: 7.MAR.2023 05:35:21

4.6 Band Edge

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 E Section 15.407 and 15.205</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10:2013</td></tr>
<tr><td>Test site:</td><td>Measurement Distance: 3m (Semi-Anechoic Chamber)</td></tr>
<tr><td>Receiver setup:</td><td>
<table>
<tr><th>Frequency</th><th>Detector</th><th>RBW</th><th>VBW</th><th>Remark</th></tr>
<tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>100KHz</td><td>300KHz</td><td>Quasi-peak Value</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr>
<tr><td>AV</td><td>1MHz</td><td>3MHz</td><td>Average Value</td></tr>
</table>
</td></tr>
<tr><td>Limit:</td><td>
<table>
<tr><th>Frequency</th><th>Limit (dBuV/m @3m)</th><th>Remark</th></tr>
<tr><td>30MHz-88MHz</td><td>40.0</td><td>Quasi-peak Value</td></tr>
<tr><td>88MHz-216MHz</td><td>43.5</td><td>Quasi-peak Value</td></tr>
<tr><td>216MHz-960MHz</td><td>46.0</td><td>Quasi-peak Value</td></tr>
<tr><td>960MHz-1GHz</td><td>54.0</td><td>Quasi-peak Value</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>54.0</td><td>Average Value</td></tr>
<tr><td>68.2</td><td>Peak Value</td></tr>
</table>
Undesirable emission limits:
(1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.
(2) For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band.
(3) For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of −27 dBm/MHz.
</td></tr>
<tr><td>Test Procedure:</td><td>
a. The EUT was placed on the top of a rotating table 1.5 m above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotable table was turned from 0 degrees to 360 degrees to find the maximum reading.
e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
</td></tr>
<tr><td>Test setup:</td><td>Above 1GHz</td></tr>
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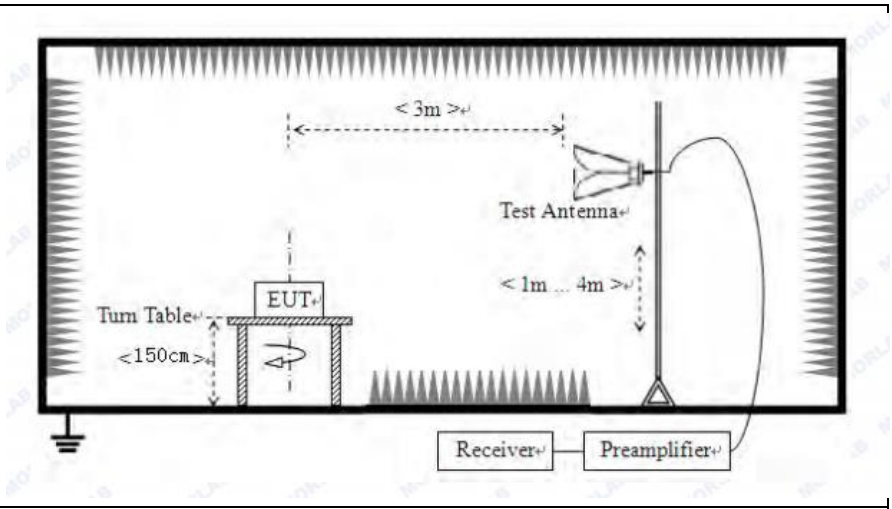
	
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Remark:

According to KDB 789033 D02 v02r01 section G) 1) (d), for For measurements above 1000 MHz @ 3m distance, the limit of field strength is computed as follows:

E[dBuV/m] = EIRP[dBm] + 95.2,

For example, if EIRP = -27dBm

E[dBuV/m] = -27 + 95.2 = 68.2dBuV/m.

Measurement Data:

Band1

Mode:		802.11a		Frequency:		5180MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	35.19	17.18	52.37	68.20	-15.83	PK
V	5150.00	36.70	17.18	53.88	68.20	-14.32	PK

Mode:		802.11a		Frequency:		5180MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	24.23	17.18	41.41	54.00	-12.59	AV
V	5150.00	23.45	17.18	40.63	54.00	-13.37	AV

Mode:		802.11a		Frequency:		5240MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	34.54	17.18	51.72	68.20	-16.48	PK
V	5350.00	34.08	17.18	51.26	68.20	-16.94	PK

Mode:		802.11a		Frequency:		5240MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	25.65	17.18	42.83	54.00	-11.17	AV
V	5350.00	27.38	17.18	44.56	54.00	-9.44	AV

Mode:		802.11n(HT20)		Frequency:		5180MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	34.35	17.18	51.53	68.20	-16.67	PK
V	5150.00	36.33	17.18	53.51	68.20	-14.69	PK

Mode:		802.11n(HT20)		Frequency:		5180MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	27.26	17.18	44.44	54.00	-9.56	AV
V	5150.00	26.53	17.18	43.71	54.00	-10.29	AV

Mode:		802.11n(HT20)		Frequency:		5240MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	35.22	17.18	52.40	68.20	-15.80	PK
V	5350.00	36.51	17.18	53.69	68.20	-14.51	PK

Mode:		802.11n(HT20)		Frequency:		5240MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	25.69	17.18	42.87	54.00	-11.13	AV
V	5350.00	26.92	17.18	44.10	54.00	-9.90	AV

Mode:		802.11ac(HT20)		Frequency:		5180MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	35.72	17.18	52.90	68.20	-15.30	PK
V	5150.00	35.34	17.18	52.52	68.20	-15.68	PK

Mode:		802.11ac(HT20)		Frequency:		5180MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	25.24	17.18	42.42	54.00	-11.58	AV
V	5150.00	26.99	17.18	44.17	54.00	-9.83	AV

Mode:		802.11ac(HT20)		Frequency:		5240MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	37.56	17.18	54.74	68.20	-13.46	PK
V	5350.00	37.12	17.18	54.30	68.20	-13.90	PK

Mode:		802.11ac(HT20)		Frequency:		5240MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	27.04	17.18	44.22	54.00	-9.78	AV
V	5350.00	25.63	17.18	42.81	54.00	-11.19	AV

Mode:		802.11n(HT40)		Frequency:		5190MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	36.00	17.18	53.18	68.20	-15.02	PK
V	5150.00	33.26	17.18	50.44	68.20	-17.76	PK
Mode:		802.11n(HT40)		Frequency:		5190MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	26.62	17.18	43.80	54.00	-10.20	AV
V	5150.00	24.45	17.18	41.63	54.00	-12.37	AV
Mode:		802.11n(HT40)		Frequency:		5230MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	35.62	17.18	52.80	68.20	-15.40	PK
V	5350.00	34.88	17.18	52.06	68.20	-16.14	PK
Mode:		802.11n(HT40)		Frequency:		5230MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	26.55	17.18	43.73	54.00	-10.27	AV
V	5350.00	23.68	17.18	40.86	54.00	-13.14	AV

Mode:		802.11ac(HT40)		Frequency:		5190MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	36.22	17.18	53.40	68.20	-14.80	PK
V	5150.00	34.76	17.18	51.94	68.20	-16.26	PK

Mode:		802.11ac(HT40)		Frequency:		5190MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	26.11	17.18	43.29	54.00	-10.71	AV
V	5150.00	25.44	17.18	42.62	54.00	-11.38	AV

Mode:		802.11ac(HT40)		Frequency:		5230MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	35.34	17.18	52.52	68.20	-15.68	PK
V	5350.00	33.53	17.18	50.71	68.20	-17.49	PK

Mode:		802.11ac(HT40)		Frequency:		5230MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	26.98	17.18	44.16	54.00	-9.84	AV
V	5350.00	24.20	17.18	41.38	54.00	-12.62	AV

Mode:		802.11ac(HT80)		Frequency:		5210MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	35.53	17.18	52.71	68.20	-15.49	PK
V	5150.00	33.53	17.18	50.71	68.20	-17.49	PK

Mode:		802.11ac(HT80)		Frequency:		5210MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	24.28	17.18	41.46	54.00	-12.54	AV
V	5150.00	27.32	17.18	44.50	54.00	-9.50	AV

Mode:		802.11ac(HT80)		Frequency:		5210MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	37.32	17.18	54.50	68.20	-13.70	PK
V	5350.00	36.67	17.18	53.85	68.20	-14.35	PK

Mode:		802.11ac(HT80)		Frequency:		5210MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	26.84	17.18	44.02	54.00	-9.98	AV
V	5350.00	26.38	17.18	43.56	54.00	-10.44	AV

Band2

Mode:		802.11a		Frequency:		5260MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	35.77	17.19	52.96	68.20	-15.24	PK
V	5150.00	36.02	17.19	53.21	68.20	-14.99	PK

Mode:		802.11a		Frequency:		5260MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	27.85	17.19	45.04	54.00	-8.96	AV
V	5150.00	25.70	17.19	42.89	54.00	-11.11	AV

Mode:		802.11a		Frequency:		5320MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	36.80	17.19	53.99	68.20	-14.21	PK
V	5350.00	36.00	17.19	53.19	68.20	-15.01	PK

Mode:		802.11a		Frequency:		5320MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	25.57	17.19	42.76	54.00	-11.24	AV
V	5350.00	27.94	17.19	45.13	54.00	-8.87	AV

Mode:		802.11n(HT20)		Frequency:		5260MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	35.69	17.19	52.88	68.20	-15.32	PK
V	5150.00	33.59	17.19	50.78	68.20	-17.42	PK

Mode:		802.11n(HT20)		Frequency:		5260MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	27.86	17.19	45.05	54.00	-8.95	AV
V	5150.00	26.05	17.19	43.24	54.00	-10.76	AV

Mode:		802.11n(HT20)		Frequency:		5320MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	37.18	17.19	54.37	68.20	-13.83	PK
V	5350.00	35.49	17.19	52.68	68.20	-15.52	PK

Mode:		802.11n(HT20)		Frequency:		5320MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	25.60	17.19	42.79	54.00	-11.21	AV
V	5350.00	27.78	17.19	44.97	54.00	-9.03	AV

Mode:		802.11ac(HT20)		Frequency:		5260MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	33.92	17.19	51.11	68.20	-17.09	PK
V	5150.00	36.74	17.19	53.93	68.20	-14.27	PK
Mode:		802.11ac(HT20)		Frequency:		5260MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	28.05	17.19	45.24	54.00	-8.76	AV
V	5150.00	26.58	17.19	43.77	54.00	-10.23	AV
Mode:		802.11ac(HT20)		Frequency:		5320MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	36.81	17.19	54.00	68.20	-14.20	PK
V	5350.00	35.78	17.19	52.97	68.20	-15.23	PK
Mode:		802.11ac(HT20)		Frequency:		5320MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	24.72	17.19	41.91	54.00	-12.09	AV
V	5350.00	28.13	17.19	45.32	54.00	-8.68	AV

Mode:		802.11n(HT40)		Frequency:		5270MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	37.40	17.19	54.59	68.20	-13.61	PK
V	5150.00	33.90	17.19	51.09	68.20	-17.11	PK
Mode:		802.11n(HT40)		Frequency:		5270MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	25.81	17.19	43.00	54.00	-11.00	AV
V	5150.00	28.14	17.19	45.33	54.00	-8.67	AV
Mode:		802.11n(HT40)		Frequency:		5310MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	35.00	17.19	52.19	68.20	-16.01	PK
V	5350.00	35.70	17.19	52.89	68.20	-15.31	PK
Mode:		802.11n(HT40)		Frequency:		5310MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	25.58	17.19	42.77	54.00	-11.23	AV
V	5350.00	28.47	17.19	45.66	54.00	-8.34	AV

Mode:		802.11ac(HT40)		Frequency:		5270MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	37.91	17.19	55.10	68.20	-13.10	PK
V	5150.00	35.94	17.19	53.13	68.20	-15.07	PK
Mode:		802.11ac(HT40)		Frequency:		5270MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	25.62	17.19	42.81	54.00	-11.19	AV
V	5150.00	24.95	17.19	42.14	54.00	-11.86	AV
Mode:		802.11ac(HT40)		Frequency:		5310MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	38.56	17.19	55.75	68.20	-12.45	PK
V	5350.00	36.89	17.19	54.08	68.20	-14.12	PK
Mode:		802.11ac(HT40)		Frequency:		5310MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	27.42	17.19	44.61	54.00	-9.39	AV
V	5350.00	26.73	17.19	43.92	54.00	-10.08	AV

Mode:		802.11ac(HT80)		Frequency:		5290MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	34.59	17.19	51.78	68.20	-16.42	PK
V	5150.00	34.03	17.19	51.22	68.20	-16.98	PK
Mode:		802.11ac(HT80)		Frequency:		5290MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5150.00	24.49	17.19	41.68	54.00	-12.32	AV
V	5150.00	26.36	17.19	43.55	54.00	-10.45	AV
Mode:		802.11ac(HT80)		Frequency:		5290MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	34.90	17.19	52.09	68.20	-16.11	PK
V	5350.00	36.24	17.19	53.43	68.20	-14.77	PK
Mode:		802.11ac(HT80)		Frequency:		5290MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5350.00	24.63	17.19	41.82	54.00	-12.18	AV
V	5350.00	27.31	17.19	44.50	54.00	-9.50	AV

Band3

Mode:		802.11a		Frequency:		5500MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5470.00	37.82	17.21	55.03	68.20	-13.17	PK
V	5470.00	37.53	17.21	54.74	68.20	-13.46	PK

Mode:		802.11a		Frequency:		5500MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5470.00	25.37	17.21	42.58	54.00	-11.42	AV
V	5470.00	26.75	17.21	43.96	54.00	-10.04	AV

Mode:		802.11a		Frequency:		5700MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5725.00	36.50	17.21	53.71	68.20	-14.49	PK
V	5725.00	36.90	17.21	54.11	68.20	-14.09	PK

Mode:		802.11a		Frequency:		5700MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5725.00	25.30	17.21	42.51	54.00	-11.49	AV
V	5725.00	28.27	17.21	45.48	54.00	-8.52	AV

Mode:		802.11n(HT20)		Frequency:		5500MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5470.00	37.39	17.21	54.60	68.20	-13.60	PK
V	5470.00	37.35	17.21	54.56	68.20	-13.64	PK

Mode:		802.11n(HT20)		Frequency:		5500MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5470.00	28.01	17.21	45.22	54.00	-8.78	AV
V	5470.00	25.98	17.21	43.19	54.00	-10.81	AV

Mode:		802.11n(HT20)		Frequency:		5700MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5725.00	36.07	17.21	53.28	68.20	-14.92	PK
V	5725.00	38.35	17.21	55.56	68.20	-12.64	PK

Mode:		802.11n(HT20)		Frequency:		5700MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5725.00	25.26	17.21	42.47	54.00	-11.53	AV
V	5725.00	26.36	17.21	43.57	54.00	-10.43	AV

Mode:		802.11ac(HT20)		Frequency:		5500MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5470.00	36.01	17.21	53.22	68.20	-14.98	PK
V	5470.00	37.03	17.21	54.24	68.20	-13.96	PK
Mode:		802.11ac(HT20)		Frequency:		5500MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5470.00	26.33	17.21	43.54	54.00	-10.46	AV
V	5470.00	27.18	17.21	44.39	54.00	-9.61	AV
Mode:		802.11ac(HT20)		Frequency:		5700MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5725.00	36.56	17.21	53.77	68.20	-14.43	PK
V	5725.00	39.42	17.21	56.63	68.20	-11.57	PK
Mode:		802.11ac(HT20)		Frequency:		5700MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5725.00	27.77	17.21	44.98	54.00	-9.02	AV
V	5725.00	25.87	17.21	43.08	54.00	-10.92	AV

Mode:		802.11n(HT40)		Frequency:		5510MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5470.00	37.77	17.21	54.98	68.20	-13.22	PK
V	5470.00	35.58	17.21	52.79	68.20	-15.41	PK

Mode:		802.11n(HT40)		Frequency:		5510MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5470.00	25.31	17.21	42.52	54.00	-11.48	AV
V	5470.00	27.18	17.21	44.39	54.00	-9.61	AV

Mode:		802.11n(HT40)		Frequency:		5670MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5725.00	36.46	17.21	53.67	68.20	-14.53	PK
V	5725.00	36.76	17.21	53.97	68.20	-14.23	PK

Mode:		802.11n(HT40)		Frequency:		5670MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5725.00	27.72	17.21	44.93	54.00	-9.07	AV
V	5725.00	24.97	17.21	42.18	54.00	-11.82	AV

Mode:		802.11ac(HT40)		Frequency:		5510MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5470.00	39.42	17.21	56.63	68.20	-11.57	PK
V	5470.00	37.49	17.21	54.70	68.20	-13.50	PK

Mode:		802.11ac(HT40)		Frequency:		5510MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5470.00	28.37	17.21	45.58	54.00	-8.42	AV
V	5470.00	25.65	17.21	42.86	54.00	-11.14	AV

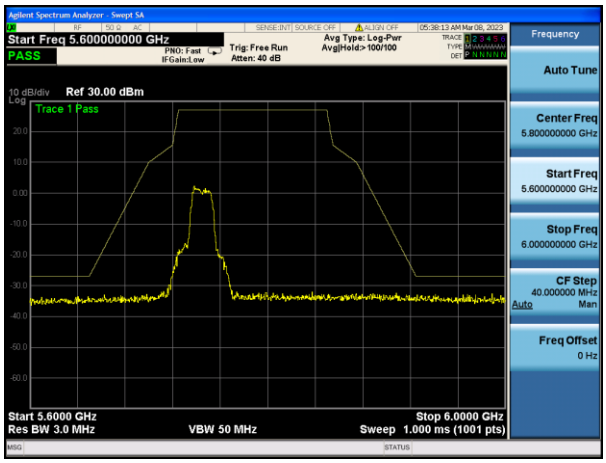
Mode:		802.11ac(HT40)		Frequency:		5670MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5725.00	38.50	17.21	55.71	68.20	-12.49	PK
V	5725.00	37.16	17.21	54.37	68.20	-13.83	PK

Mode:		802.11ac(HT40)		Frequency:		5670MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5725.00	26.23	17.21	43.44	54.00	-10.56	AV
V	5725.00	28.07	17.21	45.28	54.00	-8.72	AV

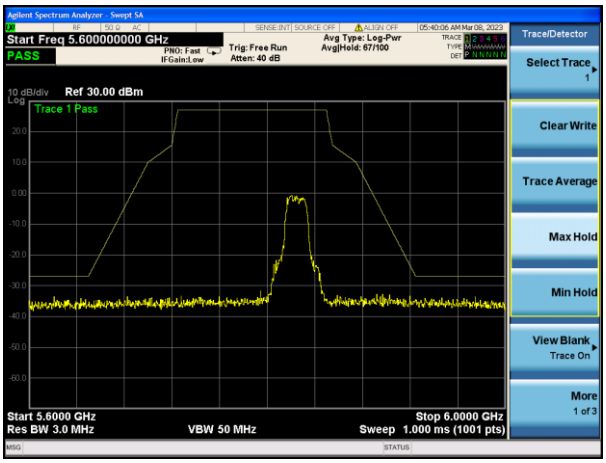
Mode:		802.11ac(HT80)		Frequency:		5530MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5470.00	35.65	17.21	52.86	68.20	-15.34	PK
V	5470.00	36.72	17.21	53.93	68.20	-14.27	PK
Mode:		802.11ac(HT80)		Frequency:		5530MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5470.00	26.96	17.21	44.17	54.00	-9.83	AV
V	5470.00	25.82	17.21	43.03	54.00	-10.97	AV
Mode:		802.11ac(HT80)		Frequency:		5530MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5725.00	38.22	17.21	55.43	68.20	-12.77	PK
V	5725.00	39.09	17.21	56.30	68.20	-11.90	PK
Mode:		802.11ac(HT80)		Frequency:		5530MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5725.00	25.48	17.21	42.69	54.00	-11.31	AV
V	5725.00	24.94	17.21	42.15	54.00	-11.85	AV

Band4

802.11a

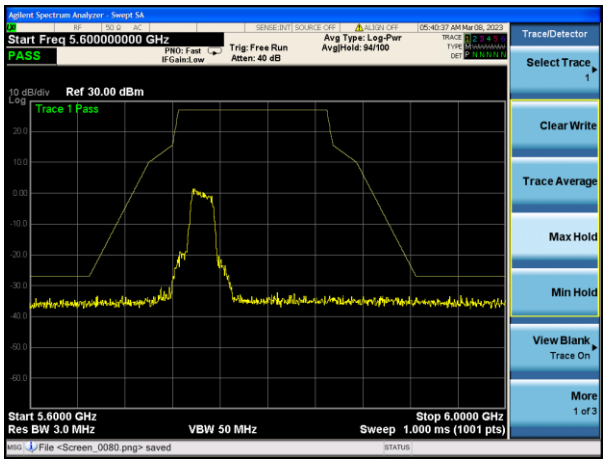


Low: 5745MHz

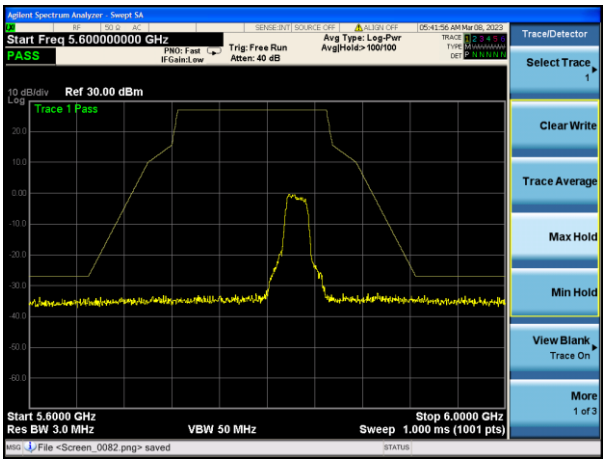


High: 5825MHz

802.11n(HT20)

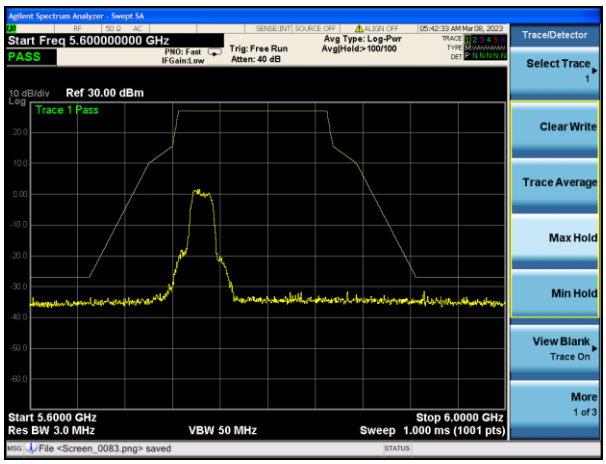


Low: 5745MHz

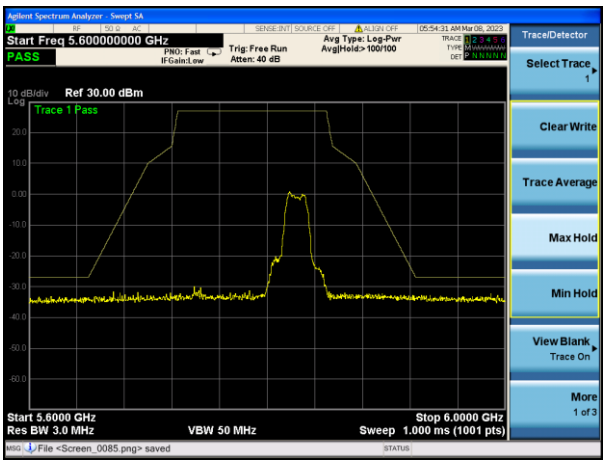


High: 5825MHz

802.11ac(HT20)

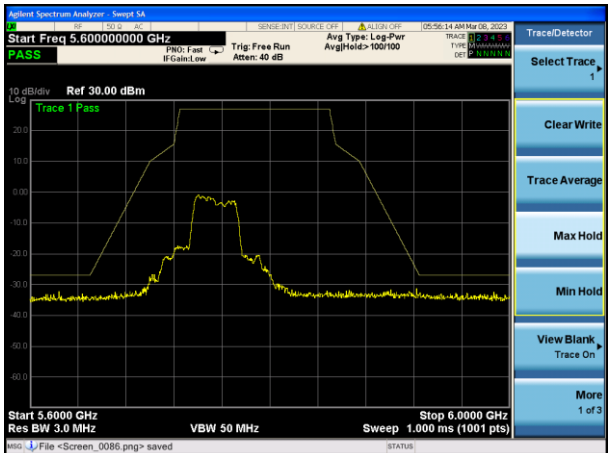


Low: 5745MHz

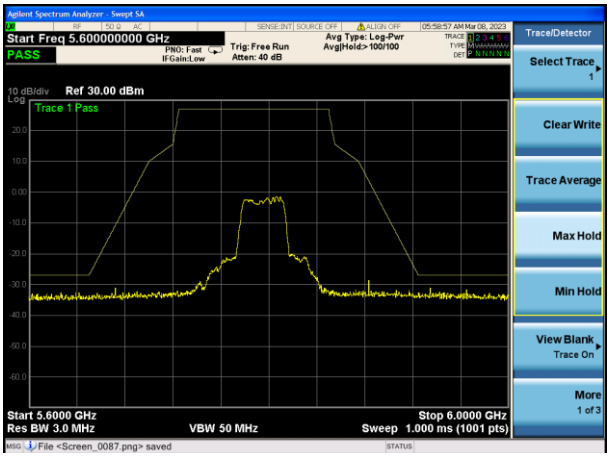


High: 5825MHz

802.11n(HT40)

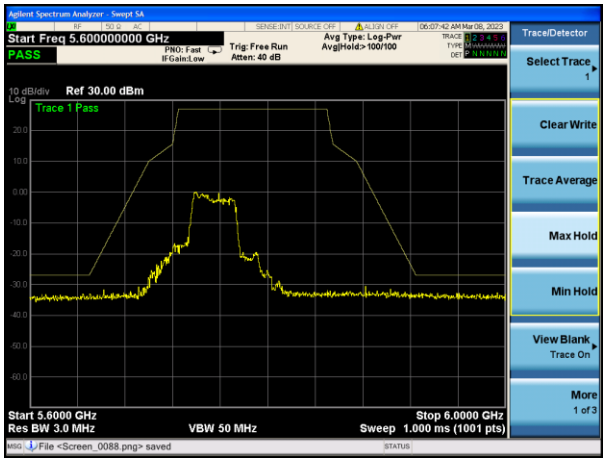


Low: 5755MHz

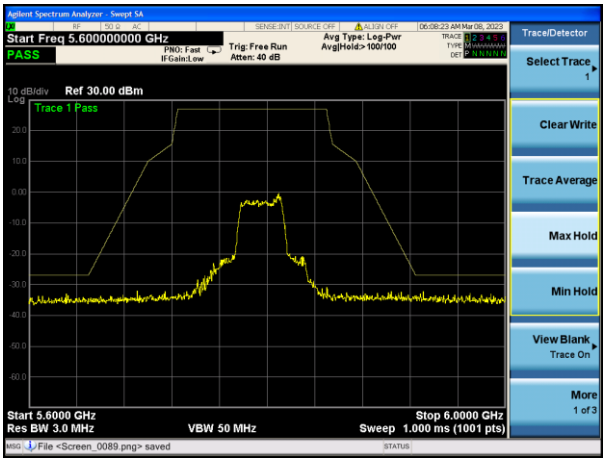


High: 5795MHz

802.11ac(HT40)

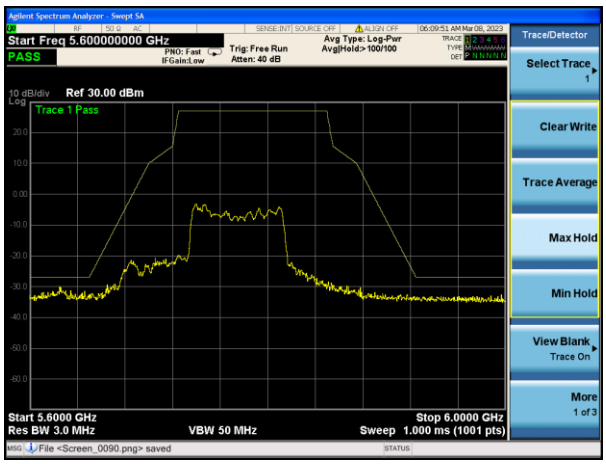


Low: 5755MHz



High: 5795MHz

802.11ac(HT80)



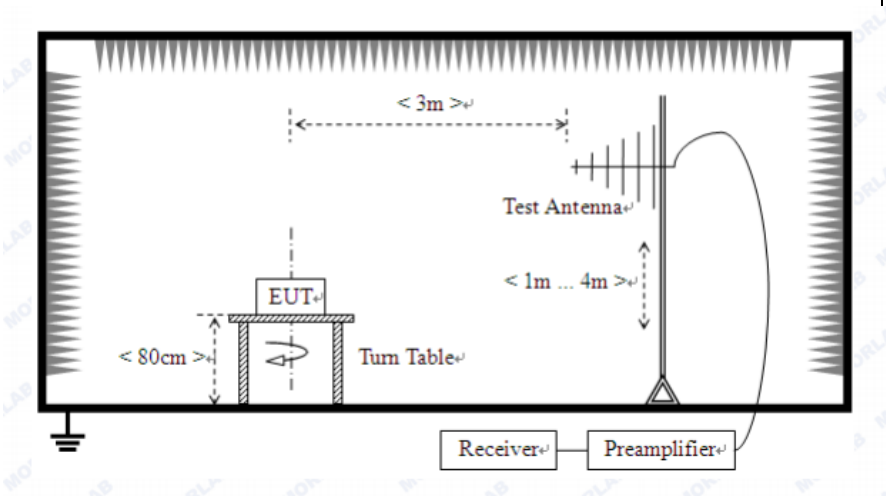
5775MHz

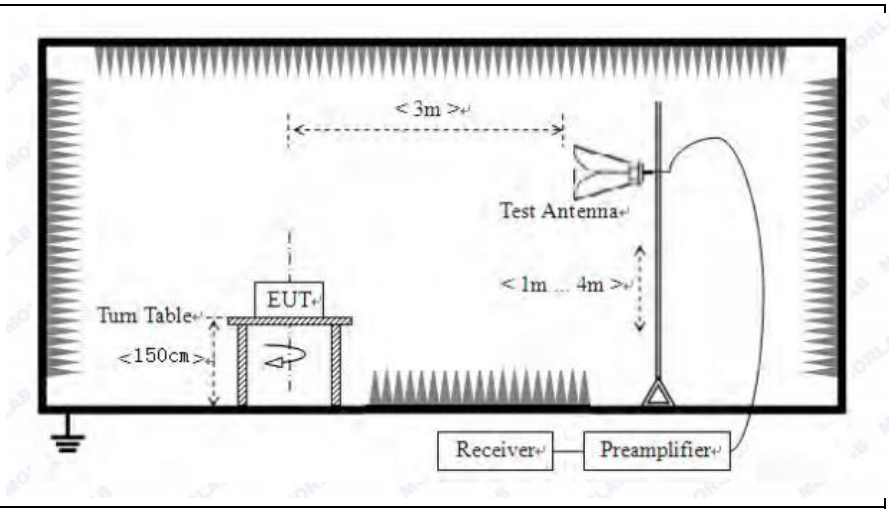
4.7 Radiated Emission

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 C Section 15.209 and 15.205</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10:2013</td></tr>
<tr><td>Test Frequency Range:</td><td>30MHz to 40GHz</td></tr>
<tr><td>Test site:</td><td>Measurement Distance: 3m (Semi-Anechoic Chamber)</td></tr>
<tr><td>Receiver setup:</td><td>
<table>
<tr><th>Frequency</th><th>Detector</th><th>RBW</th><th>VBW</th><th>Value</th></tr>
<tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>100KHz</td><td>300KHz</td><td>Quasi-peak Value</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr>
<tr><td>AV</td><td>1MHz</td><td>3MHz</td><td>Average Value</td></tr>
</table>
</td></tr>
<tr><td>Limit:</td><td>
<table>
<tr><th>Frequency</th><th>Limit (dBuV/m @3m)</th><th>Remark</th></tr>
<tr><td>30MHz-88MHz</td><td>40.0</td><td>Quasi-peak Value</td></tr>
<tr><td>88MHz-216MHz</td><td>43.5</td><td>Quasi-peak Value</td></tr>
<tr><td>216MHz-960MHz</td><td>46.0</td><td>Quasi-peak Value</td></tr>
<tr><td>960MHz-1GHz</td><td>54.0</td><td>Quasi-peak Value</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>74.0</td><td>Peak Value</td></tr>
<tr><td>54.0</td><td>Average Value</td></tr>
</table>
</td></tr>
<tr><td>Test Procedure:</td><td>
Substitution method was performed to determine the actual ERP emission levels of the EUT.
The following test procedure as below:

1>.Below 1GHz test procedure:
1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotable table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

2>.Above 1GHz test procedure:
1. On the test site as test setup graph above,the EUT shall be placed at the 1.5m support on the turntable and in the position closest to normal use as declared by the provider.
2. The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter.The output of the test antenna shall be connected to the measuring receiver.
3. The transmitter shall be switched on, if possible, without modulation and the measuring receiver shall be tuned to the frequency of the transmitter under test.
4. The test antenna shall be raised and lowered from 1m to 4m until a
</td></tr>
</table>

	maximum signal level is detected by the measuring receiver. Then the turntable should be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver. 5. Repeat step 4 for test frequency with the test antenna polarized horizontally. 6. Remove the transmitter and replace it with a substitution antenna 7. Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a nonradiating cable. With the antennas at both ends vertically polarized, and with the signal generator tuned to a particular test frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output. 8. Repeat step 7 with both antennas horizontally polarized for each test frequency. 9. Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps 7 and 8 by the power loss in the cable between the generator and the antenna, and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna by the following formula: EIRP(dBm) = Pg(dBm) – cable loss (dB) + antenna gain (dBi) where: Pg is the generator output power into the substitution antenna.
Test setup:	Below 1GHz  Above 1GHz

	
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data:

Below 1GHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
33.26	48.06	11.25	0.59	30.08	29.82	40	-10.18	Vertical
54.50	40.74	11.93	0.81	29.96	23.52	40	-16.48	Vertical
120.34	47.07	9.4	1.36	29.57	28.26	43.5	-15.24	Vertical
172.27	43.21	8.5	1.7	29.31	24.10	43.5	-19.40	Vertical
440.76	37.56	16.29	3.05	29.41	27.49	46	-18.51	Vertical
860.65	33.17	21.83	4.69	29.14	30.55	46	-15.45	Vertical
64.57	35.76	8.73	0.9	29.89	15.50	40	-24.50	Horizontal
99.91	34.15	11.73	1.19	29.7	17.37	43.5	-26.13	Horizontal
270.04	45.96	12.53	2.22	29.79	30.92	46	-15.08	Horizontal
351.08	36.72	14.5	2.62	29.73	24.11	46	-21.89	Horizontal
628.10	36.47	19.43	3.83	29.27	30.46	46	-15.54	Horizontal
956.20	40.83	22.54	5.06	29.1	39.33	46	-6.67	Horizontal

Above 1GHz:

802.11a(HT20) 5180MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.23	29.12	11.25	14.62	32.65	22.34	74	-51.66	Vertical
15540.53	30.53	11.93	17.66	34.46	25.66	74	-48.34	Vertical
10360.87	32.65	9.4	14.62	32.65	24.02	74	-49.98	Horizontal
15540.83	31.88	8.5	17.66	34.46	23.58	74	-50.42	Horizontal

802.11a(HT20) 5200MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.98	28.73	16.29	14.62	32.65	26.99	74	-47.01	Vertical
15540.97	30.71	21.83	17.66	34.46	35.74	74	-38.26	Vertical
10360.66	32.33	8.73	14.62	32.65	23.03	74	-50.97	Horizontal
15540.39	32.17	11.73	17.66	34.46	27.10	74	-46.90	Horizontal

802.11a(HT20) 5240MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.51	29.12	11.25	14.62	32.65	22.34	74	-51.66	Vertical
15540.84	31.02	11.93	17.66	34.46	26.15	74	-47.85	Vertical
10360.15	32.73	9.4	14.62	32.65	24.10	74	-49.90	Horizontal
15540.83	31.83	8.5	17.66	34.46	23.53	74	-50.47	Horizontal

802.11n(HT20) 5180MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.91	29.07	16.29	14.62	32.65	27.33	74	-46.67	Vertical
15540.54	30.26	21.83	17.66	34.46	35.29	74	-38.71	Vertical
10360.71	32.08	8.73	14.62	32.65	22.78	74	-51.22	Horizontal
15540.50	32.12	11.73	17.66	34.46	27.05	74	-46.95	Horizontal

802.11n(HT20) 5200MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.41	28.87	11.25	14.62	32.65	22.09	74	-51.91	Vertical
15540.82	30.57	11.93	17.66	34.46	25.70	74	-48.30	Vertical
10360.16	32.19	9.4	14.62	32.65	23.56	74	-50.44	Horizontal
15540.68	31.60	8.5	17.66	34.46	23.30	74	-50.70	Horizontal

802.11n(HT20) 5240MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.91	28.22	16.29	14.62	32.65	26.48	74	-47.52	Vertical
15540.68	30.40	21.83	17.66	34.46	35.43	74	-38.57	Vertical
10360.82	33.01	8.73	14.62	32.65	23.71	74	-50.29	Horizontal
15540.55	32.03	11.73	17.66	34.46	26.96	74	-47.04	Horizontal

802.11ac(HT20) 5180MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.15	28.68	11.25	14.62	32.65	21.90	74	-52.10	Vertical
15540.22	30.36	11.93	17.66	34.46	25.49	74	-48.51	Vertical
10360.89	32.74	9.4	14.62	32.65	24.11	74	-49.89	Horizontal
15540.09	31.70	8.5	17.66	34.46	23.40	74	-50.60	Horizontal

802.11ac(HT20) 5200MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.53	28.36	16.29	14.62	32.65	26.62	74	-47.38	Vertical
15540.36	30.87	21.83	17.66	34.46	35.90	74	-38.10	Vertical
10360.21	32.93	8.73	14.62	32.65	23.63	74	-50.37	Horizontal
15540.26	32.24	11.73	17.66	34.46	27.17	74	-46.83	Horizontal

802.11ac(HT20) 5240MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.39	28.26	11.25	14.62	32.65	21.48	74	-52.52	Vertical
15540.03	31.13	11.93	17.66	34.46	26.26	74	-47.74	Vertical
10360.03	32.89	9.4	14.62	32.65	24.26	74	-49.74	Horizontal
15540.50	32.21	8.5	17.66	34.46	23.91	74	-50.09	Horizontal

802.11n(HT40) 5190MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.85	28.30	16.29	14.62	32.65	26.56	74	-47.44	Vertical
15540.65	30.80	21.83	17.66	34.46	35.83	74	-38.17	Vertical
10360.02	32.71	8.73	14.62	32.65	23.41	74	-50.59	Horizontal
15540.37	31.50	11.73	17.66	34.46	26.43	74	-47.57	Horizontal

802.11n(HT40) 5230MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.97	28.56	11.25	14.62	32.65	21.78	74	-52.22	Vertical
15540.70	30.19	11.93	17.66	34.46	25.32	74	-48.68	Vertical
10360.61	32.95	9.4	14.62	32.65	24.32	74	-49.68	Horizontal
15540.75	31.58	8.5	17.66	34.46	23.28	74	-50.72	Horizontal

802.11ac(HT40) 5190MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.47	28.32	16.29	14.62	32.65	26.58	74	-47.42	Vertical
15540.73	30.60	21.83	17.66	34.46	35.63	74	-38.37	Vertical
10360.81	32.90	8.73	14.62	32.65	23.60	74	-50.40	Horizontal
15540.74	31.61	11.73	17.66	34.46	26.54	74	-47.46	Horizontal

802.11ac(HT40) 5230MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.66	28.54	11.25	14.62	32.65	21.76	74	-52.24	Vertical
15540.93	30.44	11.93	17.66	34.46	25.57	74	-48.43	Vertical
10360.83	32.47	9.4	14.62	32.65	23.84	74	-50.16	Horizontal
15540.68	32.31	8.5	17.66	34.46	24.01	74	-49.99	Horizontal

802.11ac(HT80) 5210MHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
10360.03	28.56	16.29	14.62	32.65	26.82	74	-47.18	Vertical
15540.92	30.43	21.83	17.66	34.46	35.46	74	-38.54	Vertical
10360.78	32.18	8.73	14.62	32.65	22.88	74	-51.12	Horizontal
15540.97	31.66	11.73	17.66	34.46	26.59	74	-47.41	Horizontal

Note:

1. Level = Read Level + Antenna Factor+ Cable loss- Preamp Factor.

2. The test trace is same as the ambient noise (the test frequency range: 18GHz~40GHz), therefore no data appear in the report.

3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

4. This Report only show the test plots of the worst case (U-NII-1).

4.8 Frequency stability

Test limit	Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.
Test results:	Pass

Measurement Data:

Mode	Voltage (V)	FHL (5180MHz)	Deviation (KHz)	FHH (5240MHz)	Deviation (KHz)
Band 1 (5150-5250 MHz)	DC 4.5V	5179.993	7	5239.997	3
	DC 5.0V	5179.995	5	5239.992	8
	DC 5.5V	5179.993	7	5239.995	5
Mode	Voltage (V)	FHL (5260MHz)	Deviation (KHz)	FHH (5320MHz)	Deviation (KHz)
Band 2 (5250-5350 MHz)	DC 3.0V	5259.997	3	5319.997	3
	DC 3.3V	5259.992	8	5319.996	4
	DC 4.5V	5259.994	6	5319.994	6
Mode	DC 5.0V	FHL (5500MHz)	Deviation (KHz)	FHH (5700MHz)	Deviation (KHz)
Band 3 (5470-5725 MHz)	DC 4.5V	5499.994	6	5699.992	8
	DC 5.0V	5499.995	5	5699.997	3
	DC 5.5V	5499.997	3	5699.996	4
Mode	Voltage (V)	FHL (5745MHz)	Deviation (KHz)	FHH (5825MHz)	Deviation (KHz)
Band 4 (5725-5850 MHz)	DC 4.5V	5744.992	8	5824.993	7
	DC 5.0V	5744.995	5	5824.996	4
	DC 5.5V	5744.997	3	5824.993	7

Mode	Temperature (℃)	FHL (5180MHz)	Deviation (KHz)	FHH (5240MHz)	Deviation (KHz)
Band 1 (5150-5250 MHz)	0℃	5179.997	3	5239.996	4
	+10℃	5179.994	6	5239.995	5
	+20℃	5179.997	3	5239.994	6
	+30℃	5179.995	5	5239.993	7
	+40℃	5179.998	2	5239.995	5
	+50℃	5179.997	3	5239.998	2
	+60℃	5179.994	6	5239.995	5
	+70℃	5179.997	3	5239.996	4

Mode	Temperature (℃)	FHL (5260MHz)	Deviation (KHz)	FHH (5320MHz)	Deviation (KHz)
Band 2 (5250-5350 MHz)	0℃	5259.995	5	5319.995	5
	+10℃	5259.998	2	5319.995	5
	+20℃	5259.997	3	5319.994	6
	+30℃	5259.996	4	5319.995	5
	+40℃	5259.996	4	5319.997	3
	+50℃	5259.993	7	5319.994	6
	+60℃	5259.995	5	5319.994	6
	+70℃	5259.997	3	5319.997	3
Mode	Temperature (℃)	FHL (5500MHz)	Deviation (KHz)	FHH (5700MHz)	Deviation (KHz)
Band 3 (5470-5725 MHz)	0℃	5499.995	5	5699.997	3
	+10℃	5499.998	2	5699.994	6
	+20℃	5499.994	6	5699.996	4
	+30℃	5499.995	5	5699.995	5
	+40℃	5499.995	5	5699.994	6
	+50℃	5499.993	7	5699.996	4
	+60℃	5499.995	5	5699.996	4
	+70℃	5499.994	6	5699.997	3
Mode	Temperature (℃)	FHL (5745MHz)	Deviation (KHz)	FHH (5825MHz)	Deviation (KHz)
Band 4 (5725-5850 MHz)	0℃	5744.997	3	5824.998	2
	+10℃	5744.997	3	5824.997	3
	+20℃	5744.995	5	5824.997	3
	+30℃	5744.997	3	5824.998	2
	+40℃	5744.998	2	5824.998	2
	+50℃	5744.996	4	5824.997	3
	+60℃	5744.994	6	5824.996	4
	+70℃	5744.995	5	5824.992	8

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