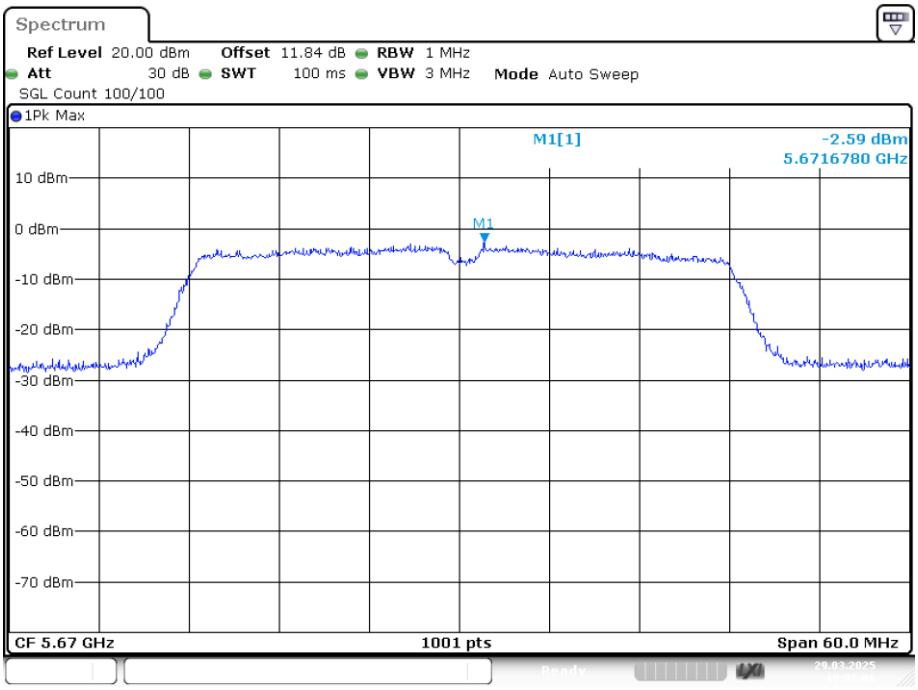
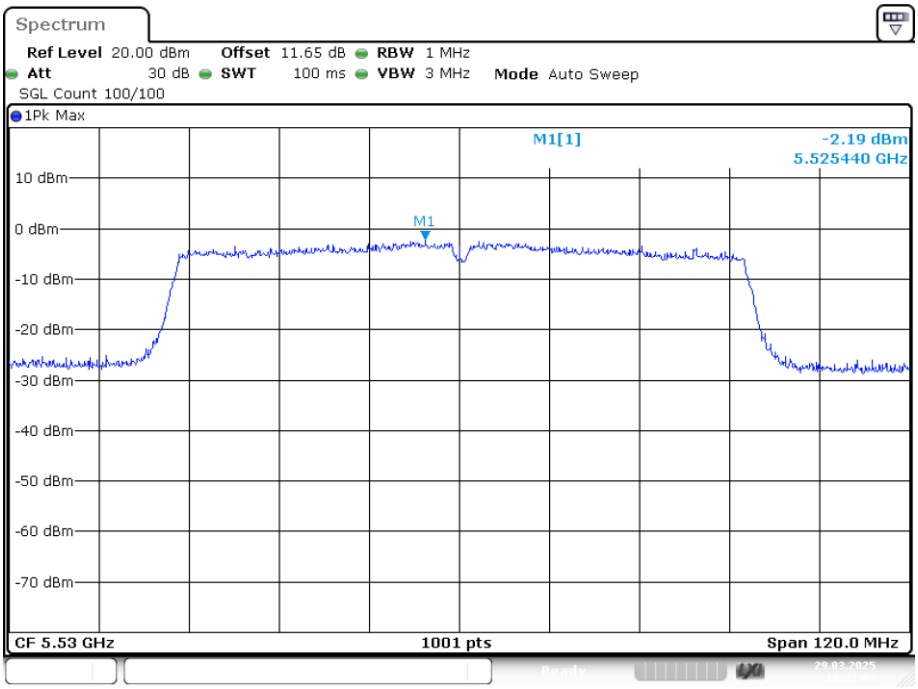
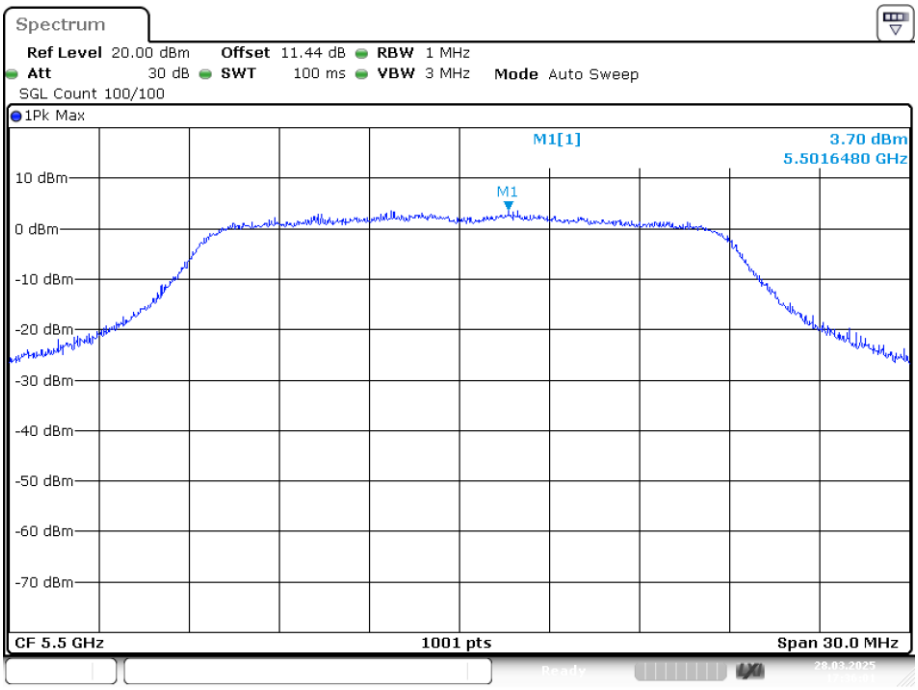


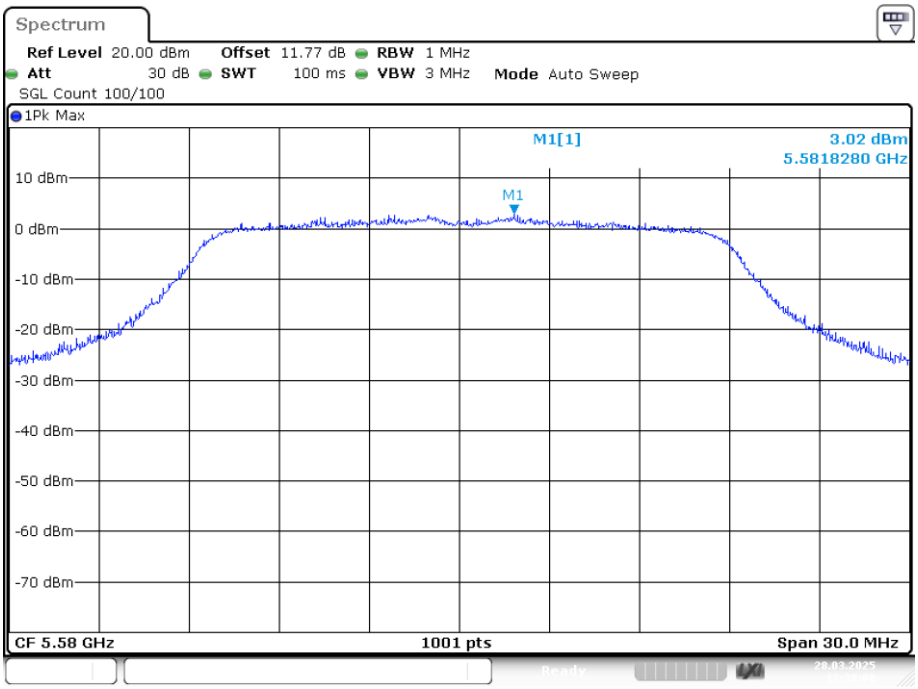
PSD NVNT ac80 5530MHz Ant1



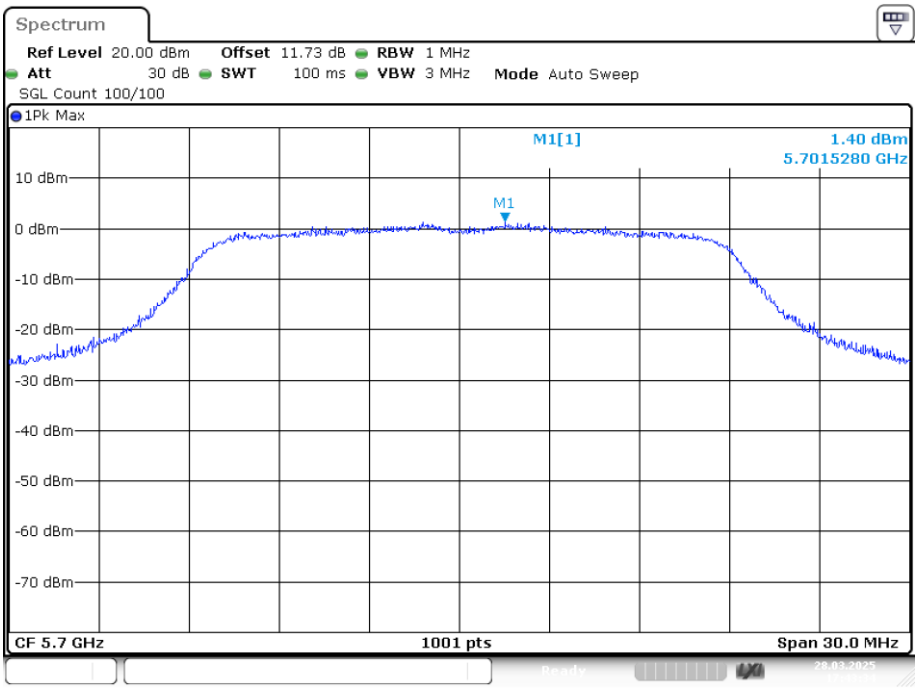
PSD NVNT n20 5500MHz Ant1



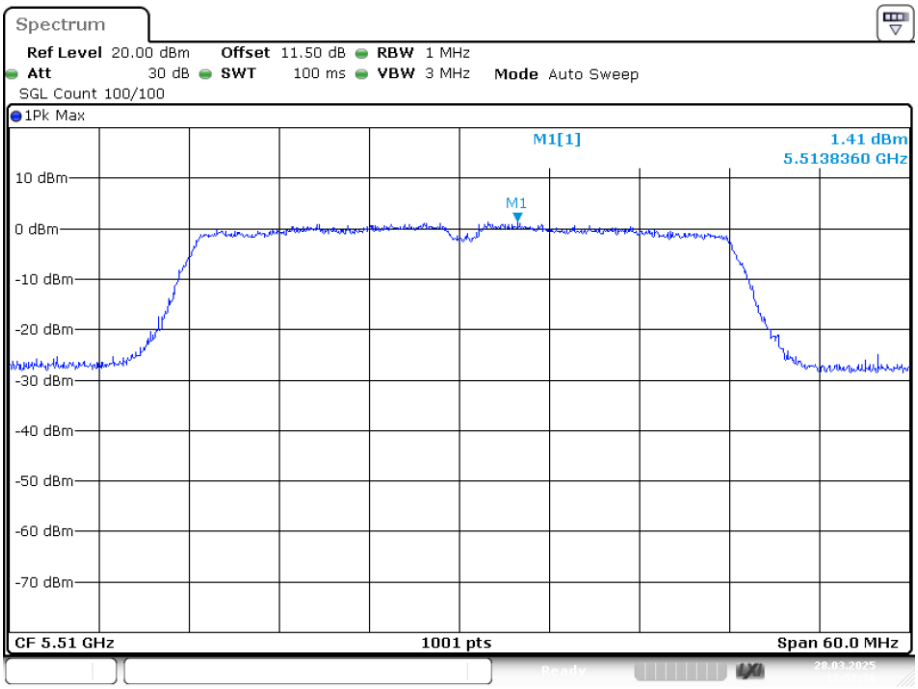
PSD NVNT n20 5580MHz Ant1



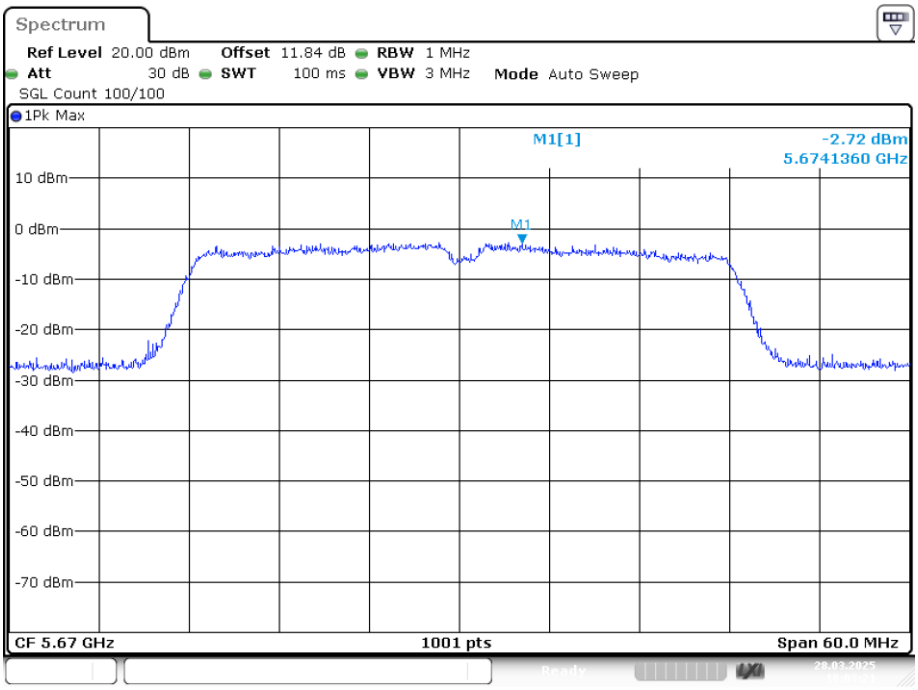
PSD NVNT n20 5700MHz Ant1



PSD NVNT n40 5510MHz Ant1



PSD NVNT n40 5670MHz Ant1

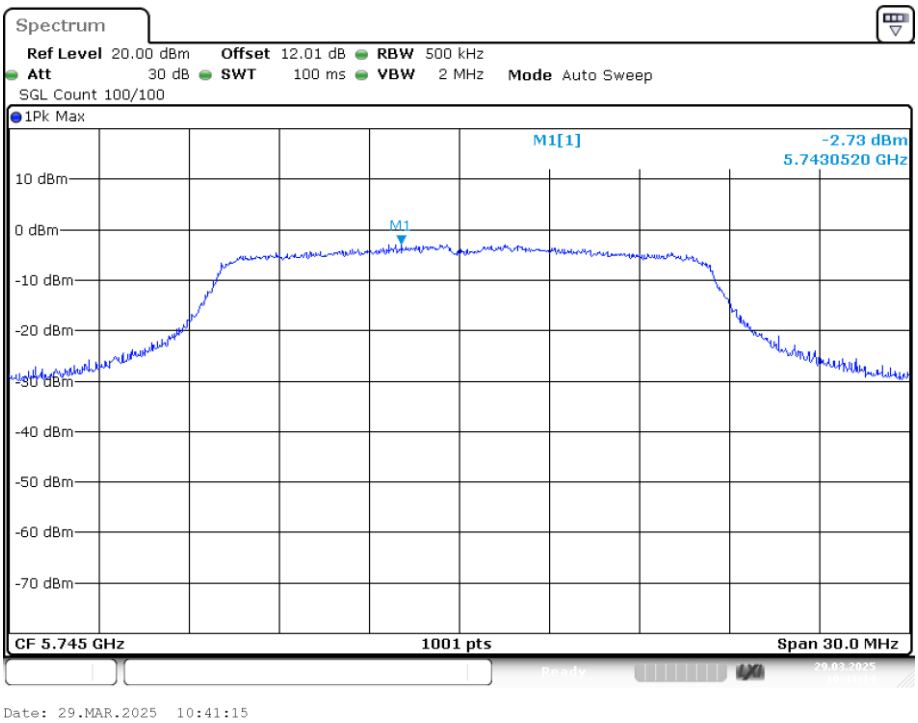


Date: 28.MAR.2025 18:03:20

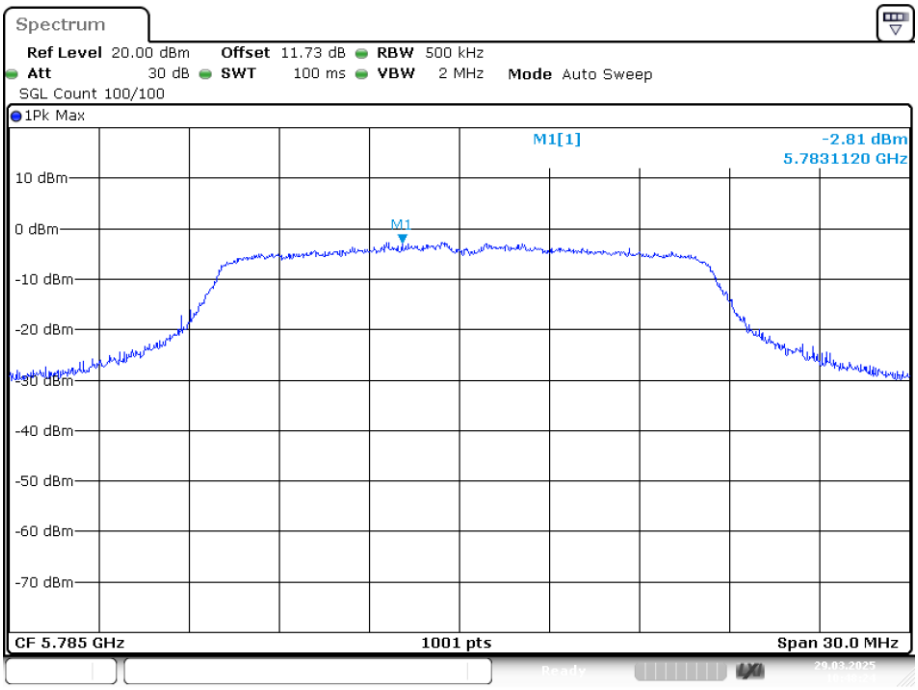
Band 4 (5725 – 5850 MHz)

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-2.733	30	Pass
NVNT	a	5785	Ant1	-2.811	30	Pass
NVNT	a	5825	Ant1	-1.707	30	Pass
NVNT	ac20	5745	Ant1	-1.982	30	Pass
NVNT	ac20	5785	Ant1	-2.058	30	Pass
NVNT	ac20	5825	Ant1	-0.621	30	Pass
NVNT	ac40	5755	Ant1	-6.717	30	Pass
NVNT	ac40	5795	Ant1	-6.788	30	Pass
NVNT	ac80	5775	Ant1	-9.697	30	Pass
NVNT	n20	5745	Ant1	-2.159	30	Pass
NVNT	n20	5785	Ant1	-2.012	30	Pass
NVNT	n20	5825	Ant1	-1.074	30	Pass
NVNT	n40	5755	Ant1	-6.673	30	Pass
NVNT	n40	5795	Ant1	-6.904	30	Pass

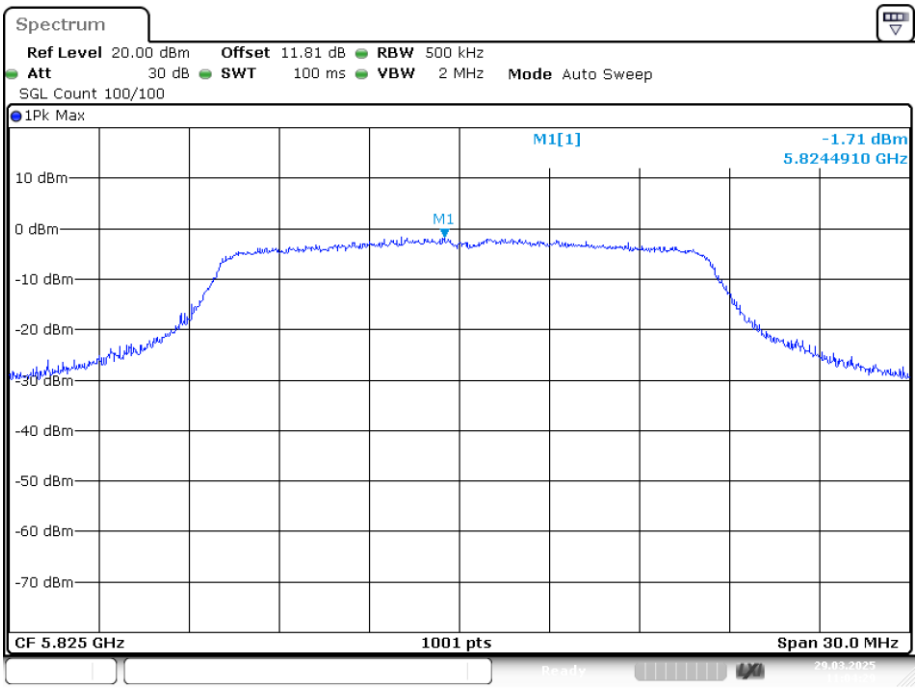
PSD NVNT a 5745MHz Ant1



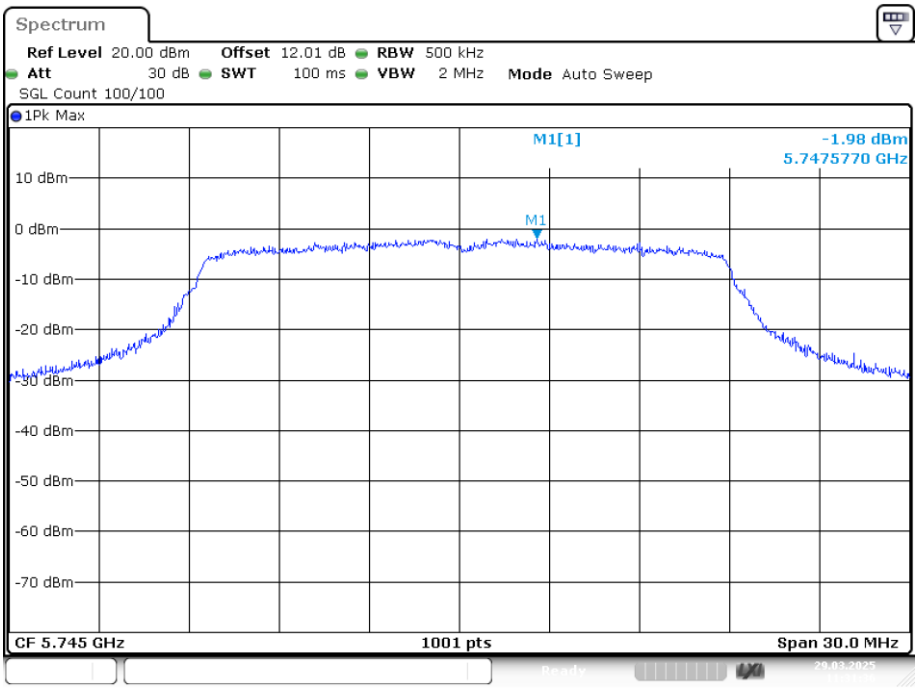
PSD NVNT a 5785MHz Ant1



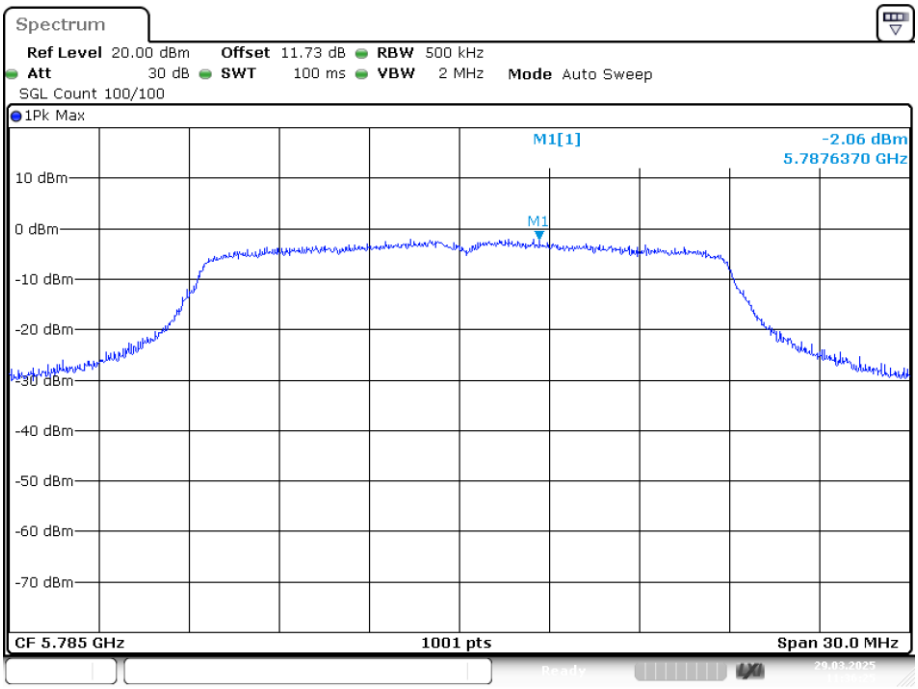
PSD NVNT a 5825MHz Ant1



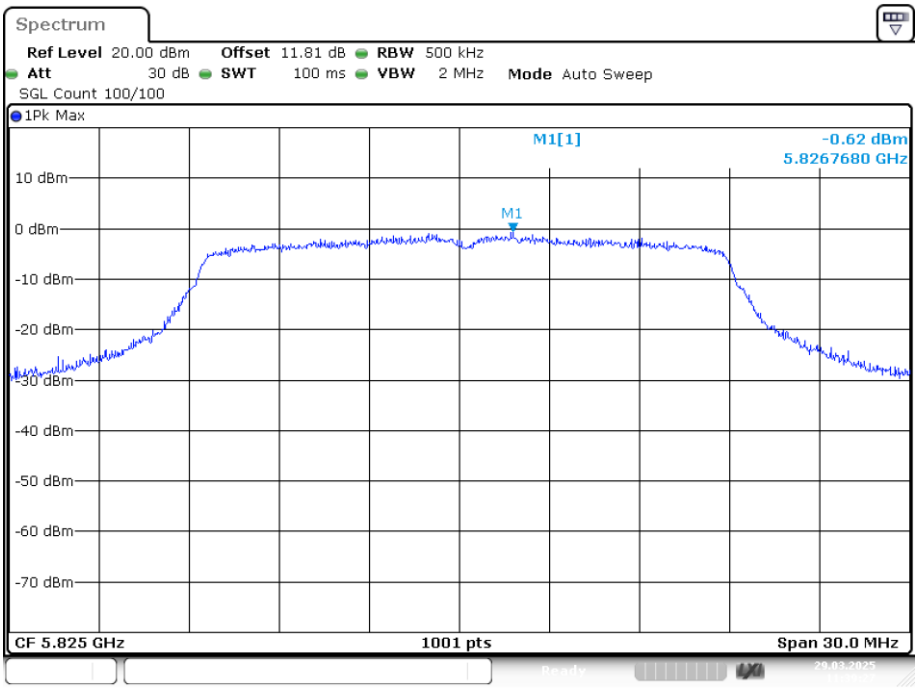
PSD NVNT ac20 5745MHz Ant1



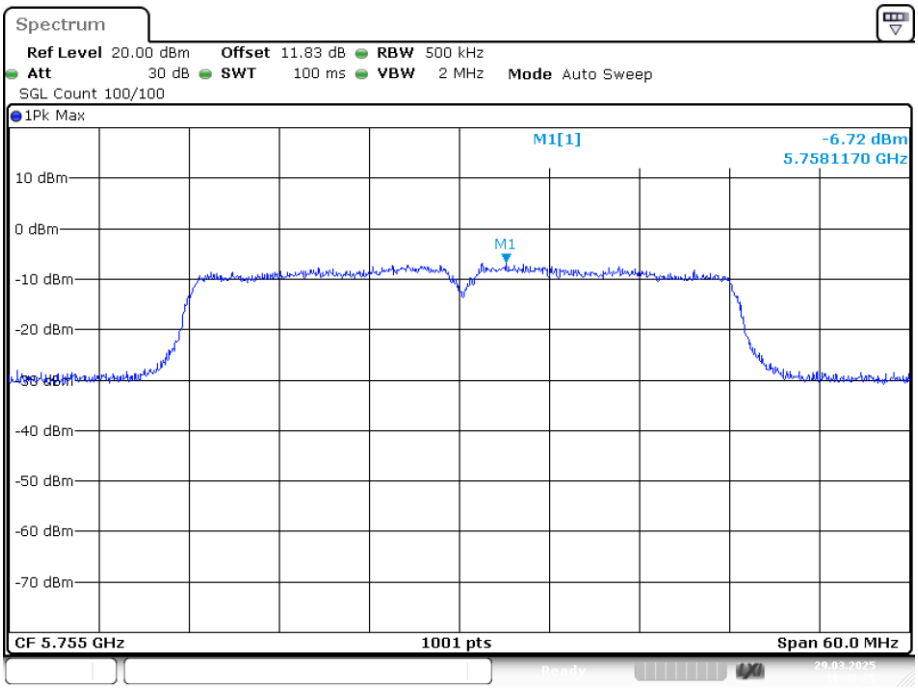
PSD NVNT ac20 5785MHz Ant1



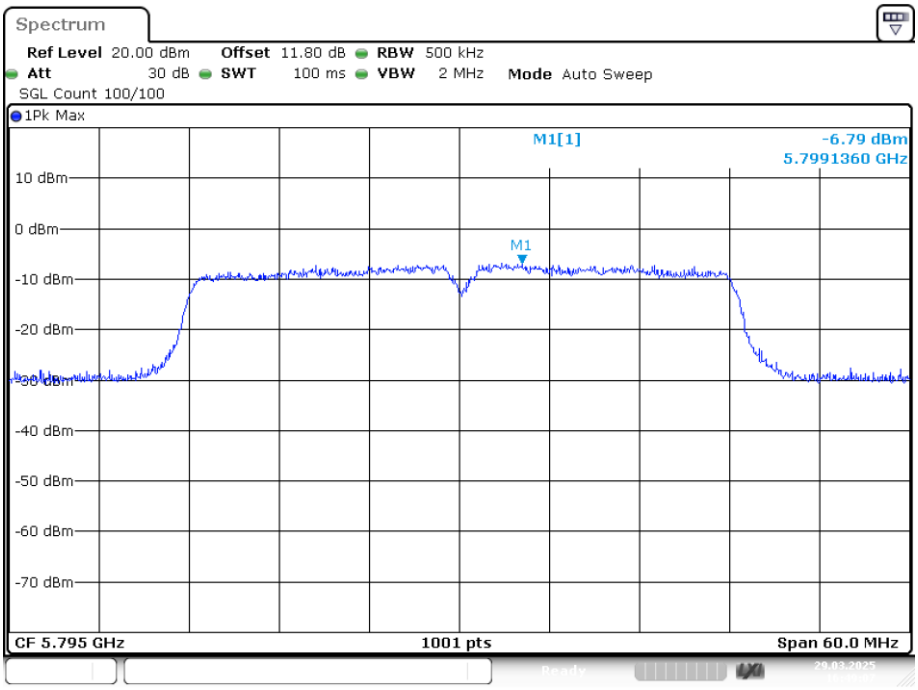
PSD NVNT ac20 5825MHz Ant1



PSD NVNT ac40 5755MHz Ant1



PSD NVNT ac40 5795MHz Ant1



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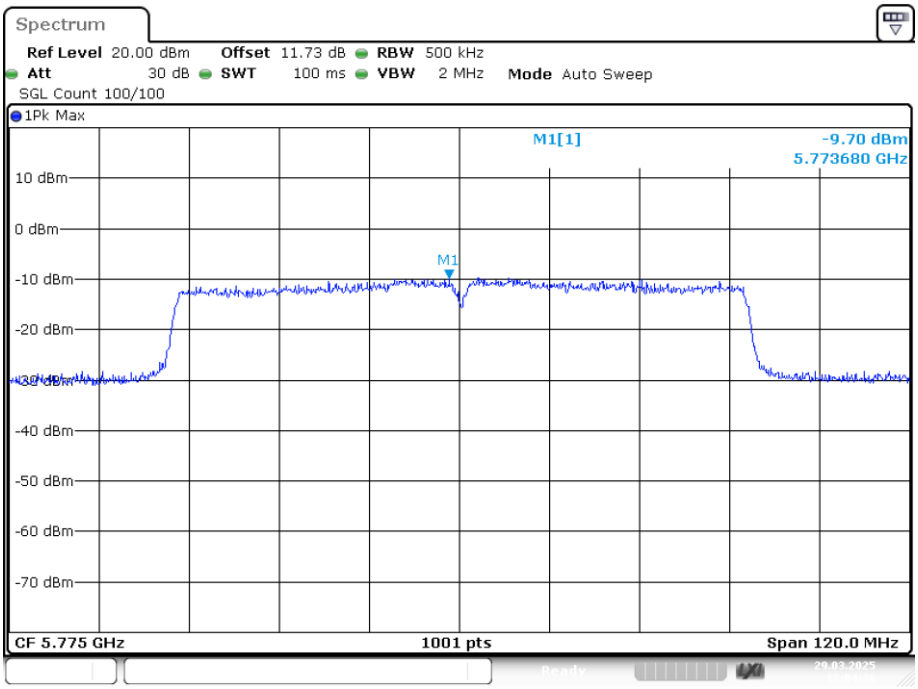

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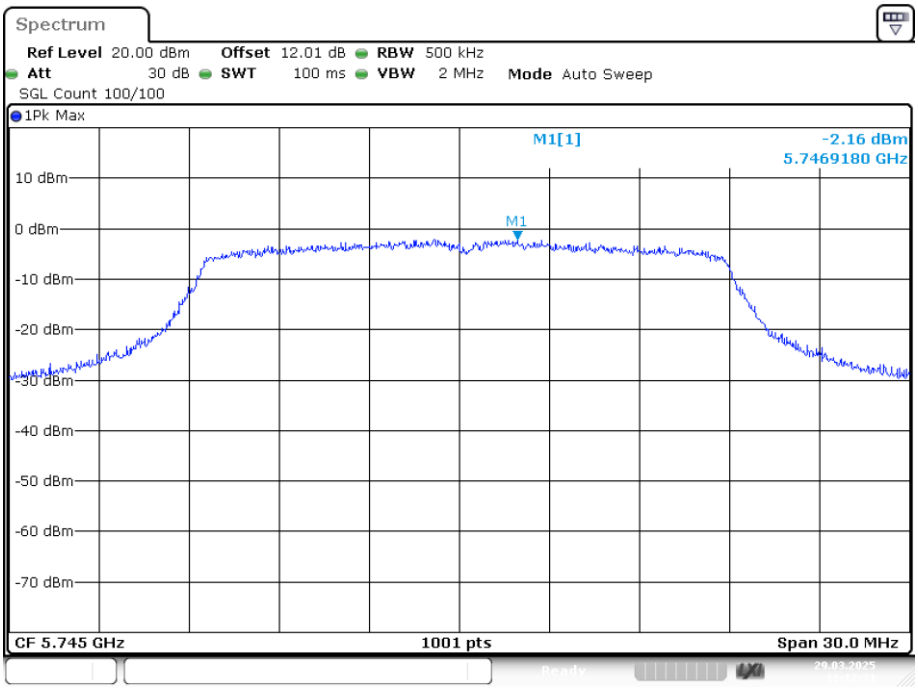

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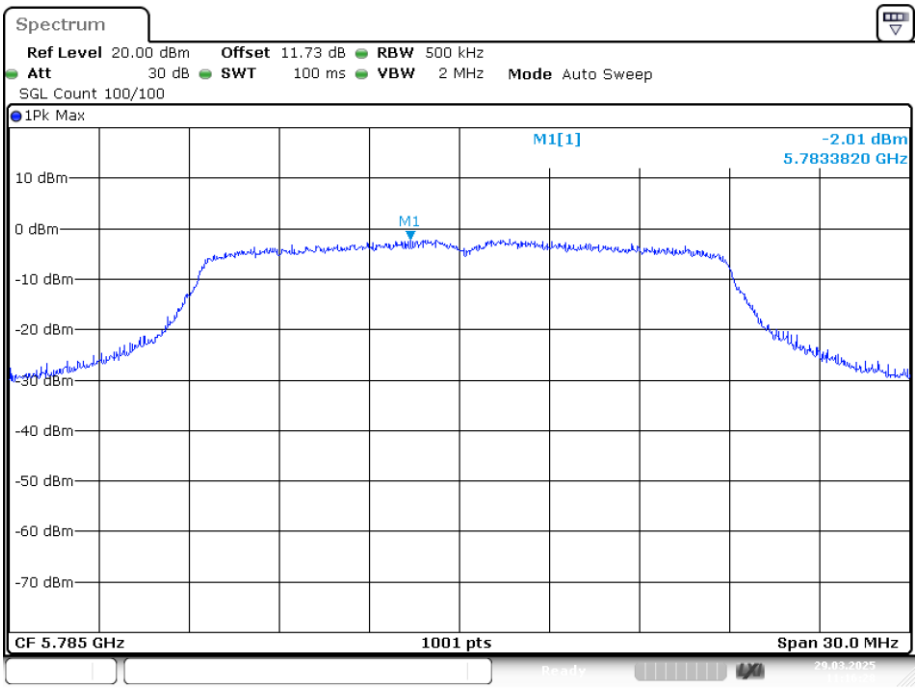

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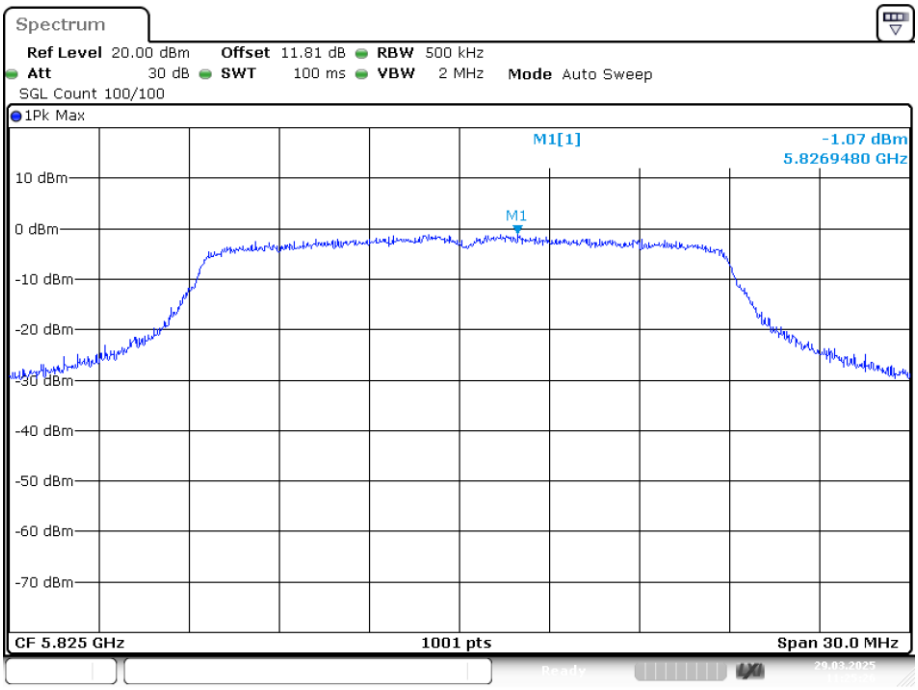
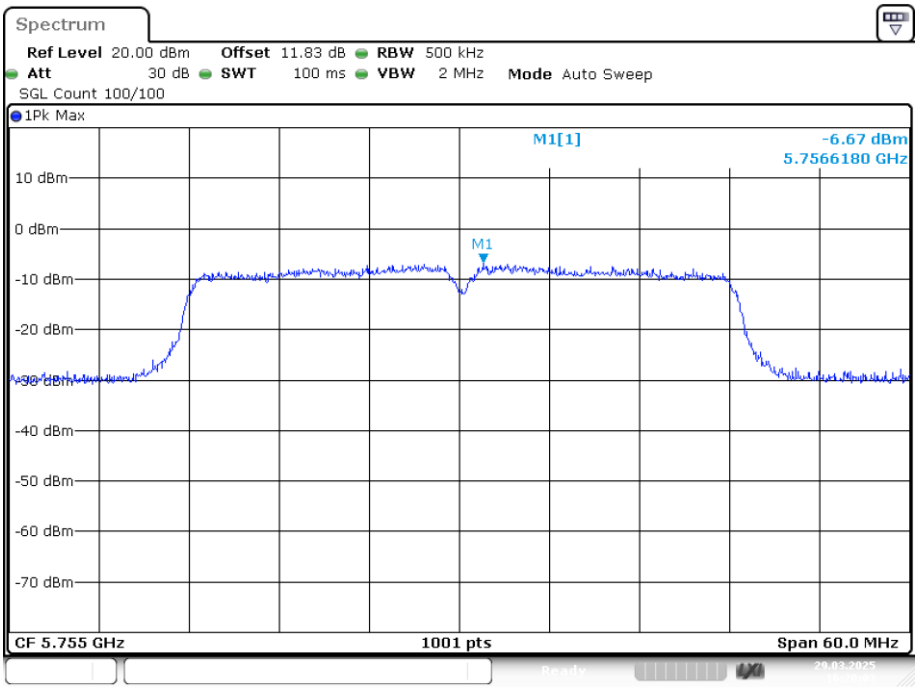
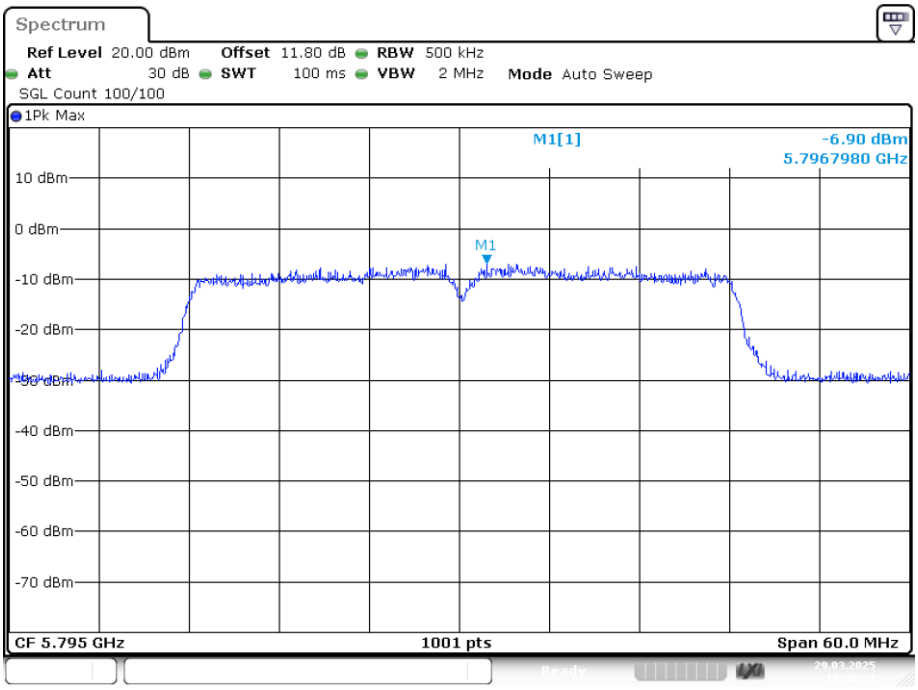


PSD NVNT n40 5755MHz Ant1



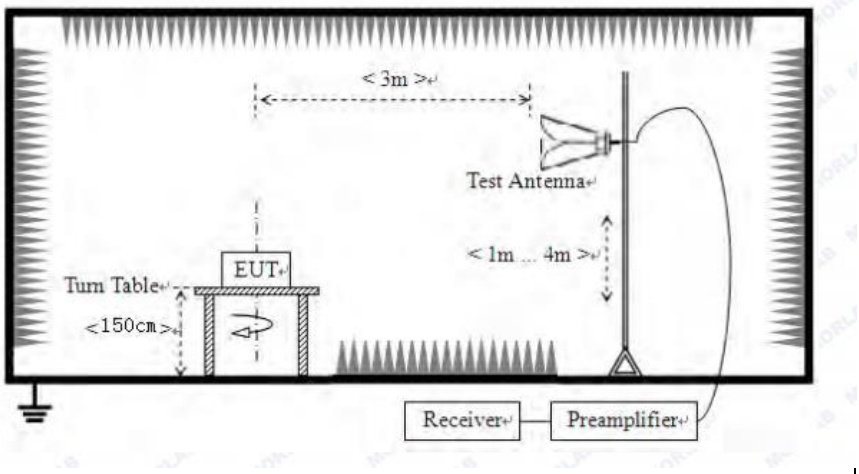
PSD NVNT n40 5795MHz Ant1



Date: 29.MAR.2025 16:30:21

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>
</table>

	
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	33.85	17.18	51.03	68.20	-22.97	PK
V	5150.00	32.90	17.18	50.08	68.20	-23.92	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	22.72	17.18	39.90	54.00	-14.10	AV
V	5150.00	25.59	17.18	42.77	54.00	-11.23	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	32.47	17.18	49.65	68.20	-24.35	PK
V	5150.00	33.20	17.18	50.38	68.20	-23.62	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	24.67	17.18	41.85	54.00	-12.15	AV
V	5150.00	25.84	17.18	43.02	54.00	-10.98	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	31.64	17.18	48.82	68.20	-25.18	PK
V	5150.00	35.07	17.18	52.25	68.20	-21.75	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	23.39	17.18	40.57	54.00	-13.43	AV
V	5150.00	25.43	17.18	42.61	54.00	-11.39	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	31.40	17.18	48.58	68.20	-19.62	PK
V	5150.00	35.68	17.18	52.86	68.20	-15.34	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	21.68	17.18	38.86	54.00	-15.14	AV
V	5150.00	25.32	17.18	42.50	54.00	-11.50	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	31.22	17.18	48.40	68.20	-19.80	PK
V	5150.00	33.40	17.18	50.58	68.20	-17.62	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	21.74	17.18	38.92	54.00	-15.08	AV
V	5150.00	25.72	17.18	42.90	54.00	-11.10	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	34.05	17.18	51.23	68.20	-16.97	PK
V	5150.00	35.82	17.18	53.00	68.20	-15.20	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	24.97	17.18	42.15	54.00	-11.85	AV
V	5150.00	24.35	17.18	41.53	54.00	-12.47	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	32.03	17.18	49.21	68.20	-18.99	PK
V	5350.00	35.26	17.18	52.44	68.20	-15.76	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	22.31	17.18	39.49	54.00	-14.51	AV
V	5350.00	25.43	17.18	42.61	54.00	-11.39	AV

Band2

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	33.19	17.18	50.37	68.20	-17.83	PK
V	5350.00	32.61	17.18	49.79	68.20	-18.41	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	24.27	17.18	41.45	54.00	-12.55	AV
V	5350.00	24.50	17.18	41.68	54.00	-12.32	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	32.35	17.18	49.53	68.20	-18.67	PK
V	5350.00	32.89	17.18	50.07	68.20	-18.13	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	21.72	17.18	38.90	54.00	-15.10	AV
V	5350.00	24.87	17.18	42.05	54.00	-11.95	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	31.13	17.18	48.31	68.20	-19.89	PK
V	5350.00	36.41	17.18	53.59	68.20	-14.61	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	25.57	17.18	42.75	54.00	-11.25	AV
V	5350.00	25.37	17.18	42.55	54.00	-11.45	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	33.17	17.18	50.35	68.20	-17.85	PK
V	5350.00	32.80	17.18	49.98	68.20	-18.22	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	21.85	17.18	39.03	54.00	-14.97	AV
V	5350.00	23.44	17.18	40.62	54.00	-13.38	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	33.18	17.18	50.36	68.20	-17.84	PK
V	5350.00	34.23	17.18	51.41	68.20	-16.79	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	23.91	17.18	41.09	54.00	-12.91	AV
V	5350.00	24.93	17.18	42.11	54.00	-11.89	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	32.36	17.18	49.54	68.20	-18.66	PK
V	5150.00	34.43	17.18	51.61	68.20	-16.59	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	24.38	17.18	41.56	54.00	-12.44	AV
V	5150.00	26.73	17.18	43.91	54.00	-10.09	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	32.59	17.18	49.77	68.20	-18.43	PK
V	5350.00	35.42	17.18	52.60	68.20	-15.60	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	24.68	17.18	41.86	54.00	-12.14	AV
V	5350.00	24.16	17.18	41.34	54.00	-12.66	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	31.36	17.18	48.54	68.20	-19.66	PK
V	5470.00	35.49	17.18	52.67	68.20	-15.53	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	21.77	17.18	38.95	54.00	-15.05	AV
V	5470.00	24.73	17.18	41.91	54.00	-12.09	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	31.28	17.18	48.46	68.20	-19.74	PK
V	5725.00	32.81	17.18	49.99	68.20	-18.21	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	24.13	17.18	41.31	54.00	-12.69	AV
V	5725.00	26.06	17.18	43.24	54.00	-10.76	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	33.60	17.18	50.78	68.20	-17.42	PK
V	5470.00	34.17	17.18	51.35	68.20	-16.85	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	22.40	17.18	39.58	54.00	-14.42	AV
V	5470.00	25.38	17.18	42.56	54.00	-11.44	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	33.35	17.18	50.53	68.20	-17.67	PK
V	5725.00	34.38	17.18	51.56	68.20	-16.64	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	24.71	17.18	41.89	54.00	-12.11	AV
V	5725.00	25.45	17.18	42.63	54.00	-11.37	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	32.19	17.18	49.37	68.20	-18.83	PK
V	5470.00	34.78	17.18	51.96	68.20	-16.24	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	24.52	17.18	41.70	54.00	-12.30	AV
V	5470.00	25.75	17.18	42.93	54.00	-11.07	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	31.09	17.18	48.27	68.20	-19.93	PK
V	5725.00	33.79	17.18	50.97	68.20	-17.23	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	21.81	17.18	38.99	54.00	-15.01	AV
V	5725.00	23.51	17.18	40.69	54.00	-13.31	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	34.66	17.18	51.84	68.20	-16.36	PK
V	5470.00	36.23	17.18	53.41	68.20	-14.79	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	24.53	17.18	41.71	54.00	-12.29	AV
V	5470.00	26.71	17.18	43.89	54.00	-10.11	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	33.58	17.18	50.76	68.20	-17.44	PK
V	5725.00	35.41	17.18	52.59	68.20	-15.61	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	25.40	17.18	42.58	54.00	-11.42	AV
V	5725.00	26.77	17.18	43.95	54.00	-10.05	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	34.73	17.18	51.91	68.20	-16.29	PK
V	5470.00	35.96	17.18	53.14	68.20	-15.06	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	22.90	17.18	40.08	54.00	-13.92	AV
V	5470.00	25.44	17.18	42.62	54.00	-11.38	AV

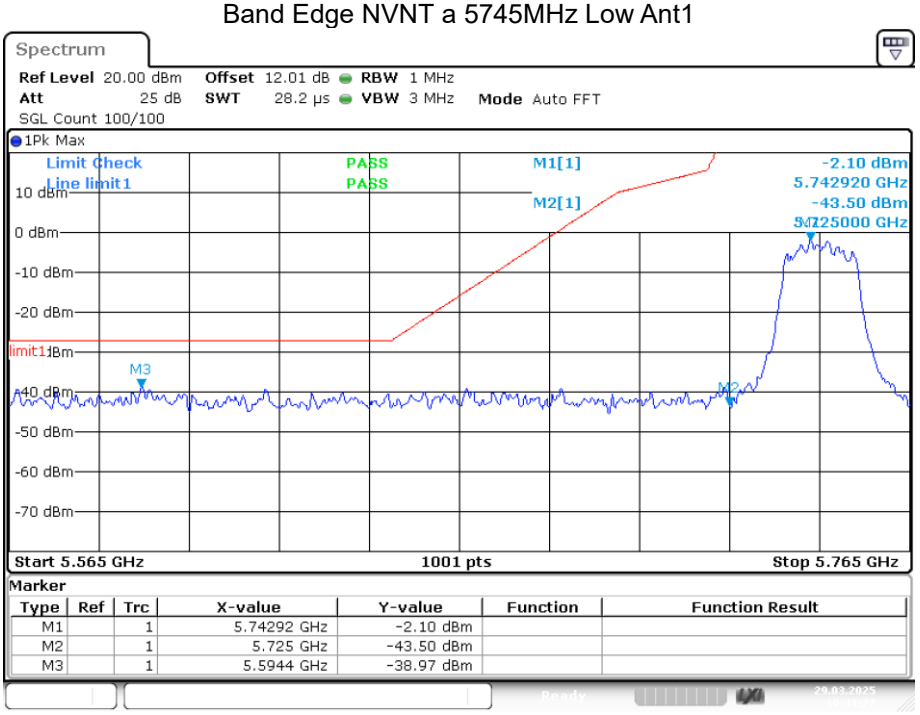
Mode:		802.11ac(HT40)		Frequency:		5670MHz	
Antenna Pol.	Frequency (MHz)	Reading Level (dBuV)	Factor (dB/m)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over limit(dB)	Detector
H	5725.00	33.22	17.18	50.40	68.20	-17.80	PK
V	5725.00	35.88	17.18	53.06	68.20	-15.14	PK

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	23.41	17.18	40.59	54.00	-13.41	AV
V	5725.00	26.27	17.18	43.45	54.00	-10.55	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	31.26	17.18	48.44	68.20	-19.76	PK
V	5470.00	33.32	17.18	50.50	68.20	-17.70	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	23.38	17.18	40.56	54.00	-13.44	AV
V	5470.00	23.61	17.18	40.79	54.00	-13.21	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	32.20	17.18	49.38	68.20	-18.82	PK
V	5725.00	36.15	17.18	53.33	68.20	-14.87	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	23.91	17.18	41.09	54.00	-12.91	AV
V	5725.00	27.16	17.18	44.34	54.00	-9.66	AV

Band4

Band Edge NVNT a 5745MHz Low Ant1



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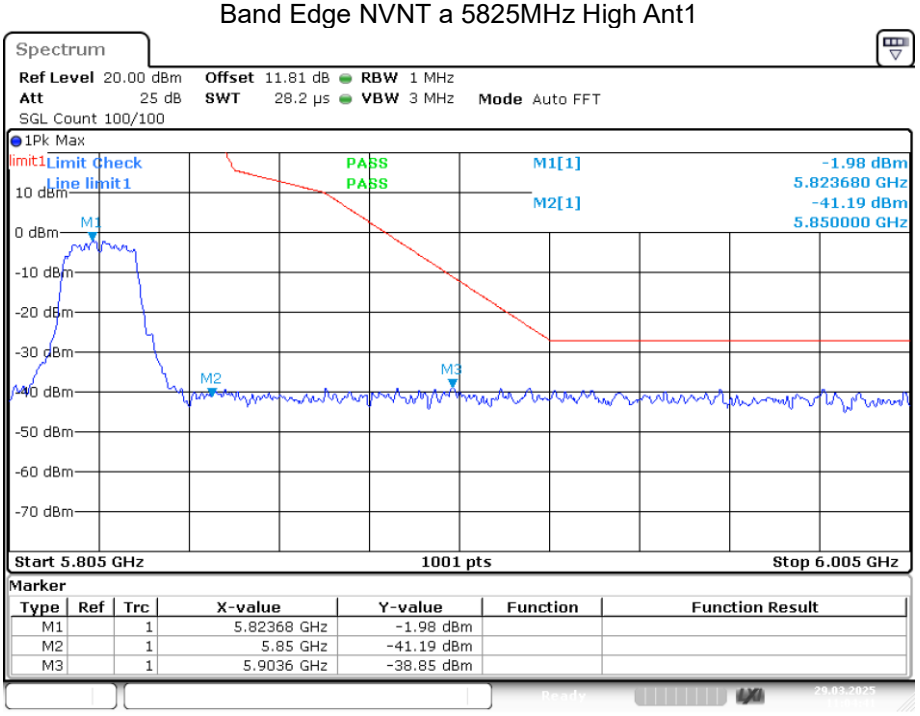
Band Edge NVNT a 5825MHz High Ant1



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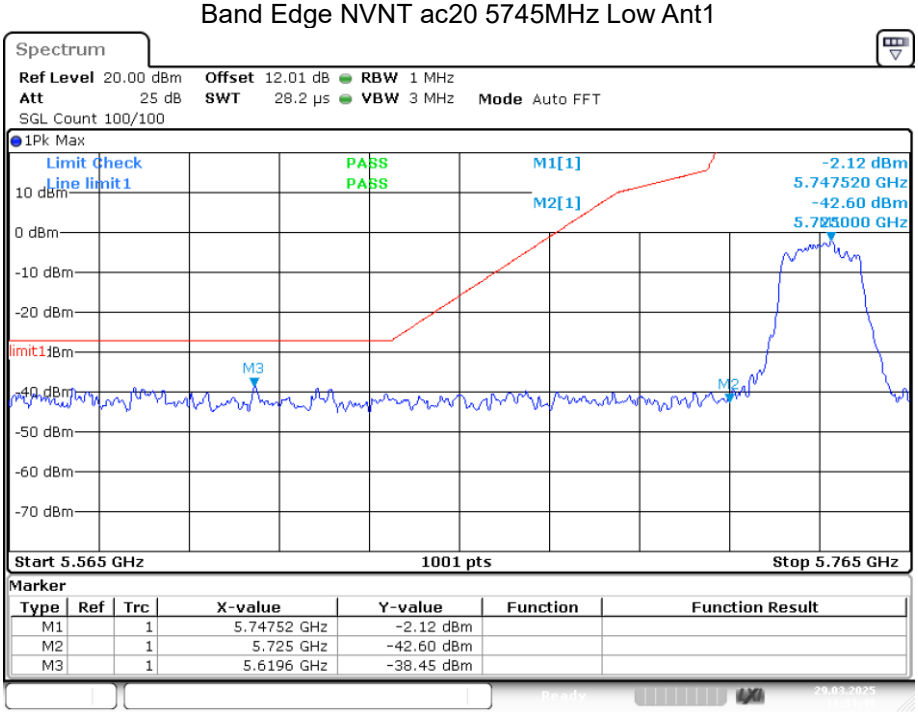
Band Edge NVNT ac20 5745MHz Low Ant1



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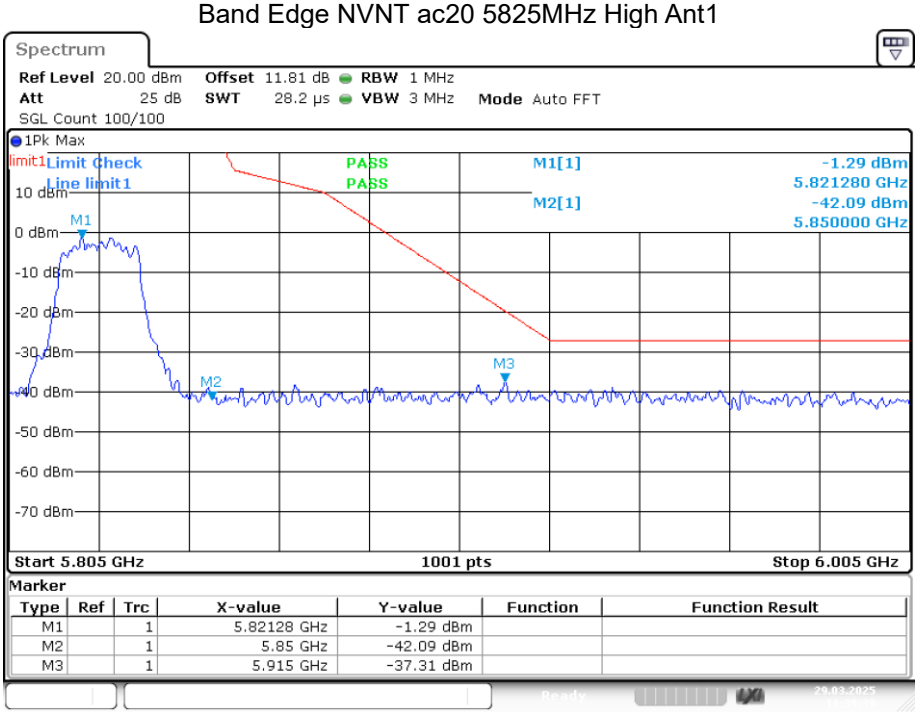

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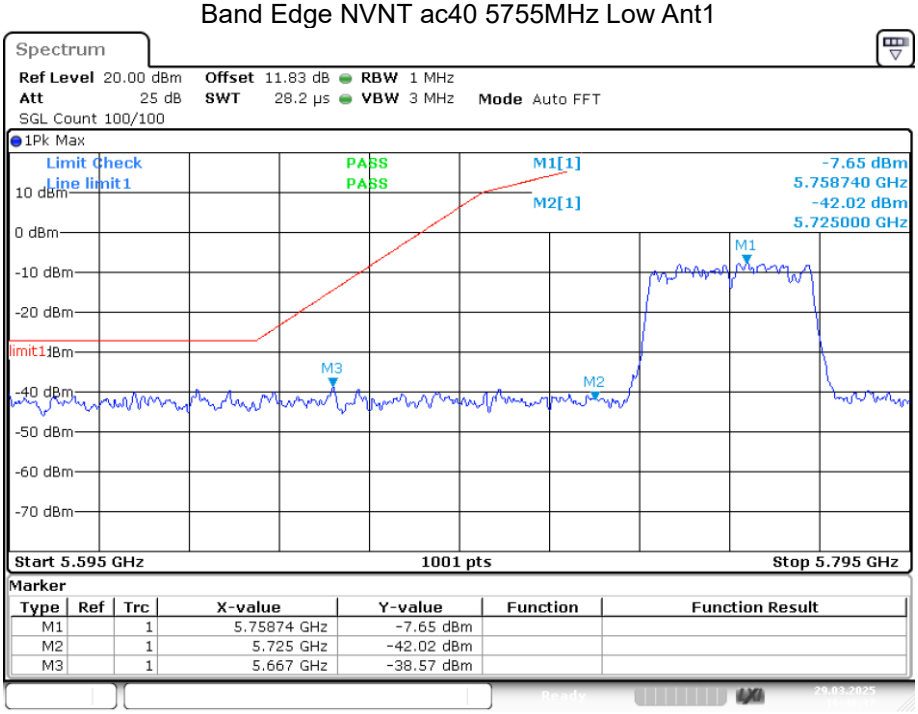
Band Edge NVNT ac40 5755MHz Low Ant1



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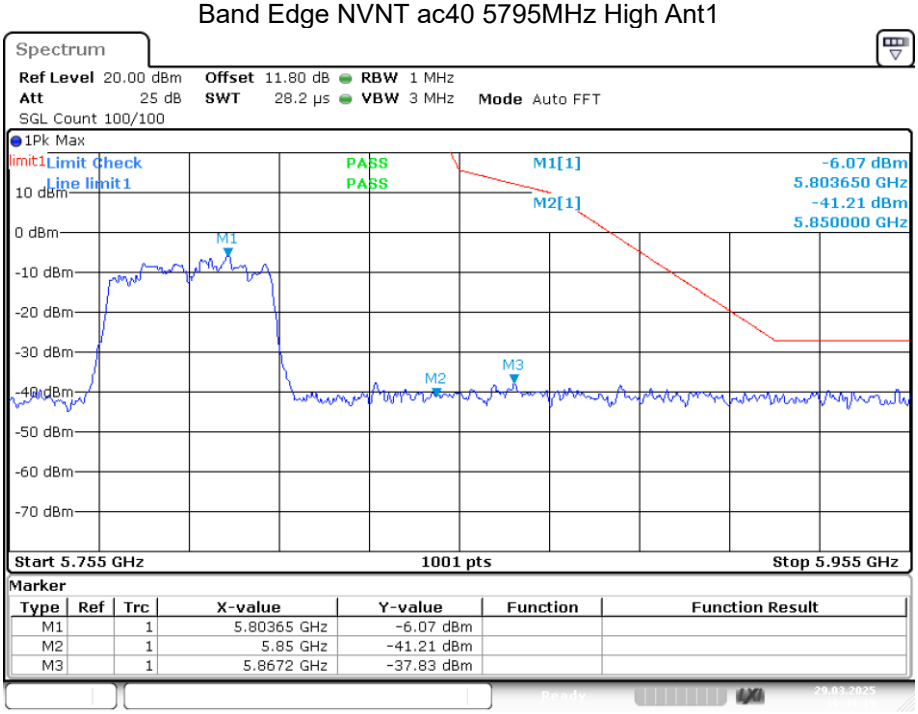
Band Edge NVNT ac40 5795MHz High Ant1



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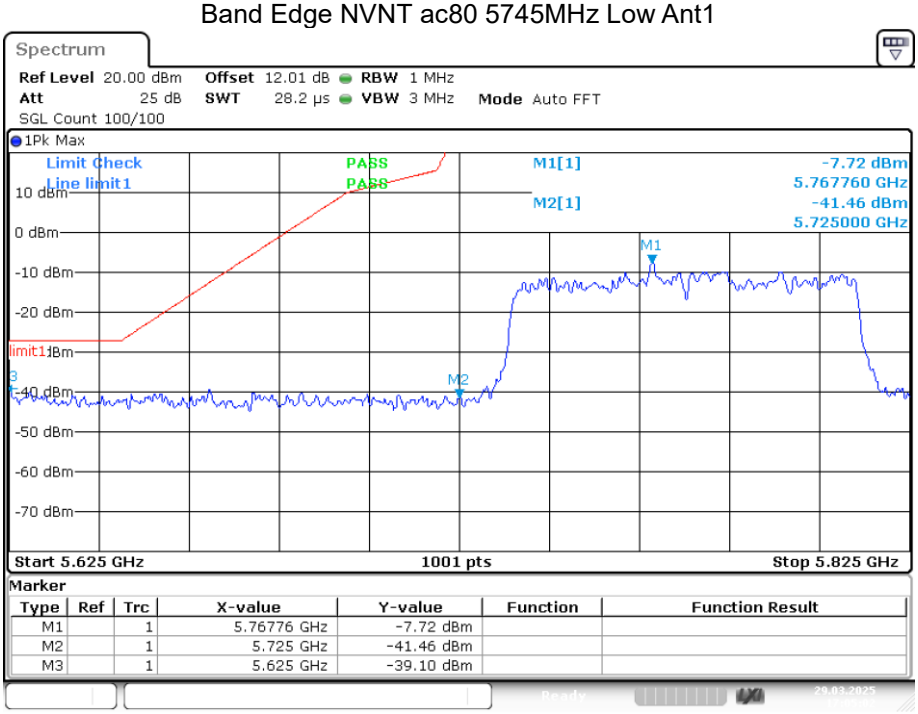

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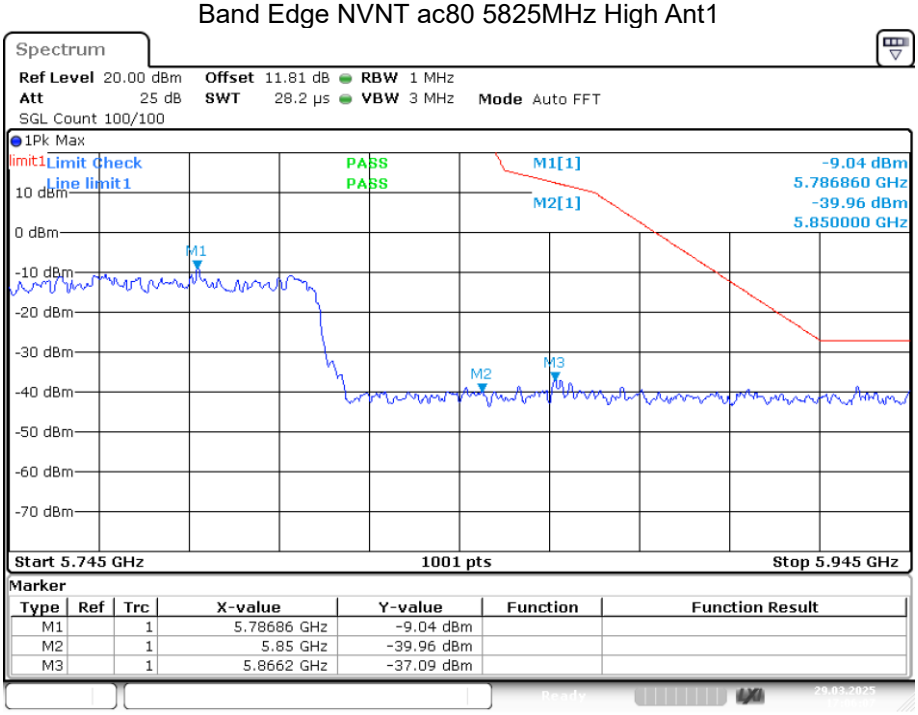

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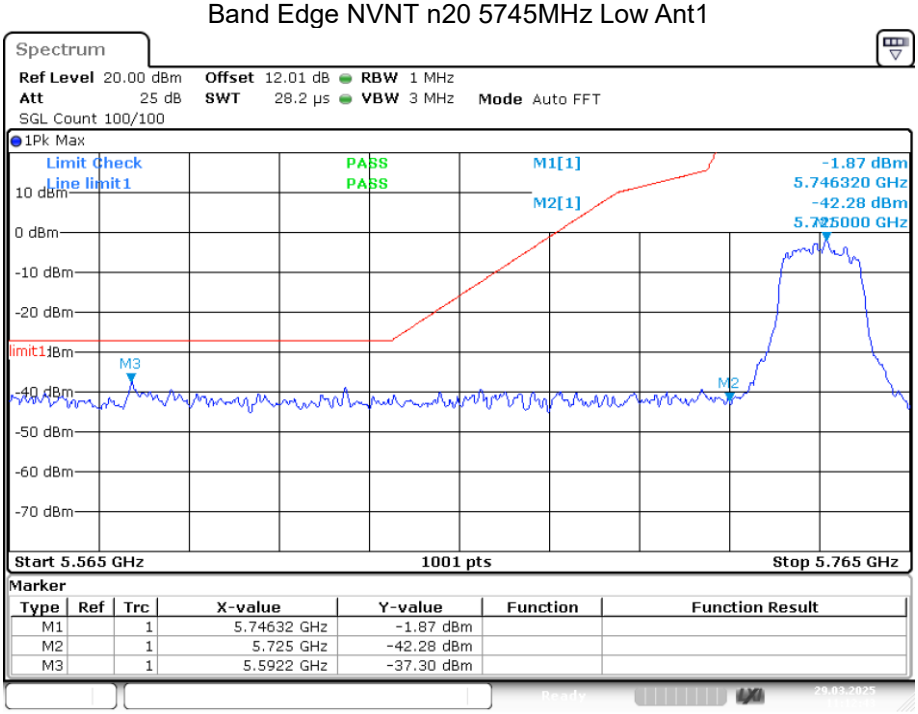

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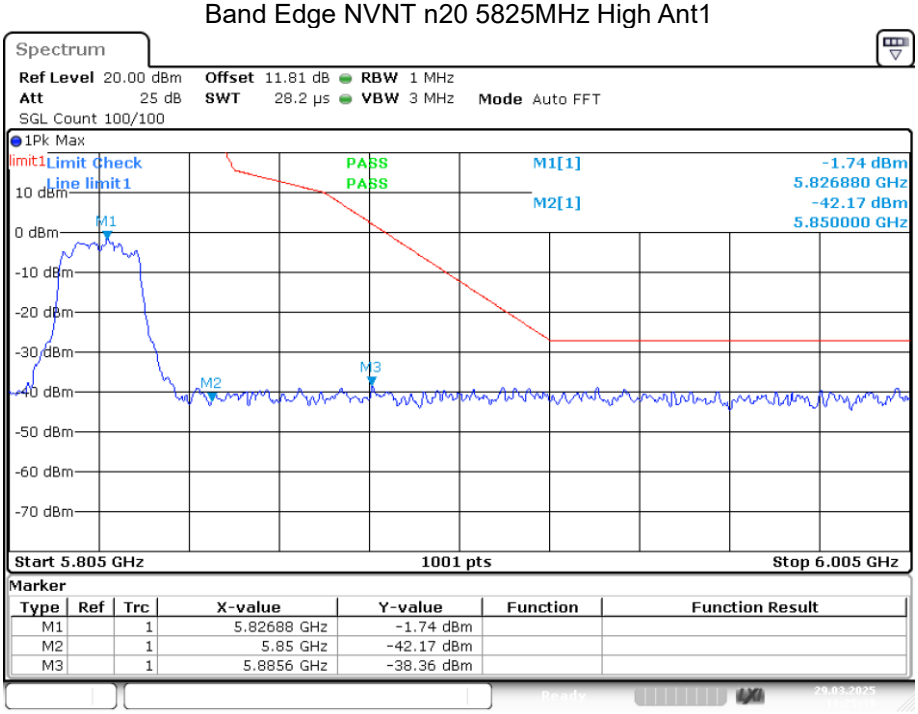

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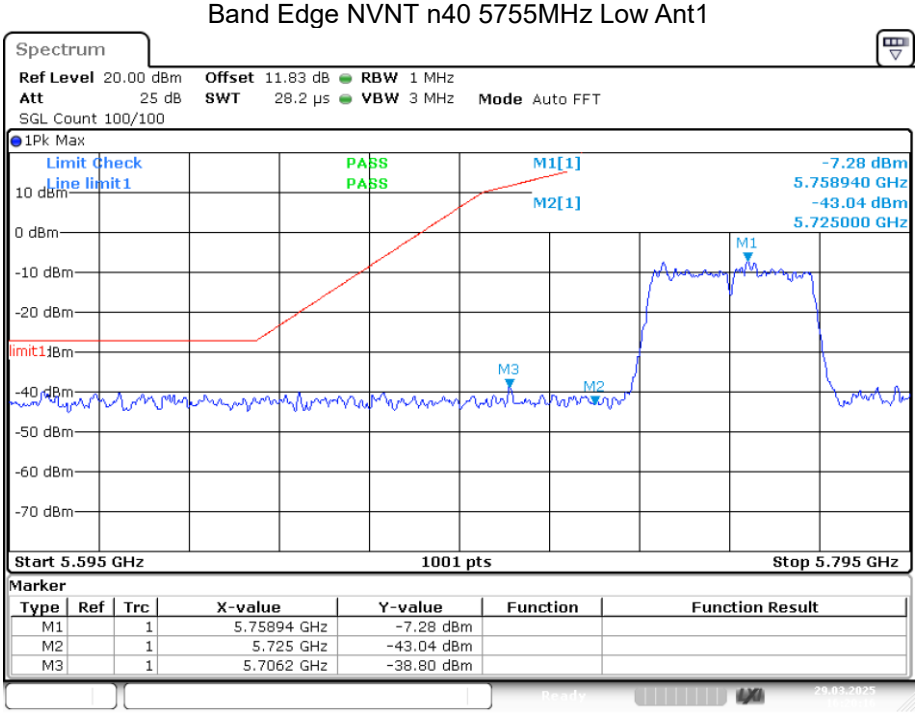
Band Edge NVNT n40 5755MHz Low Ant1



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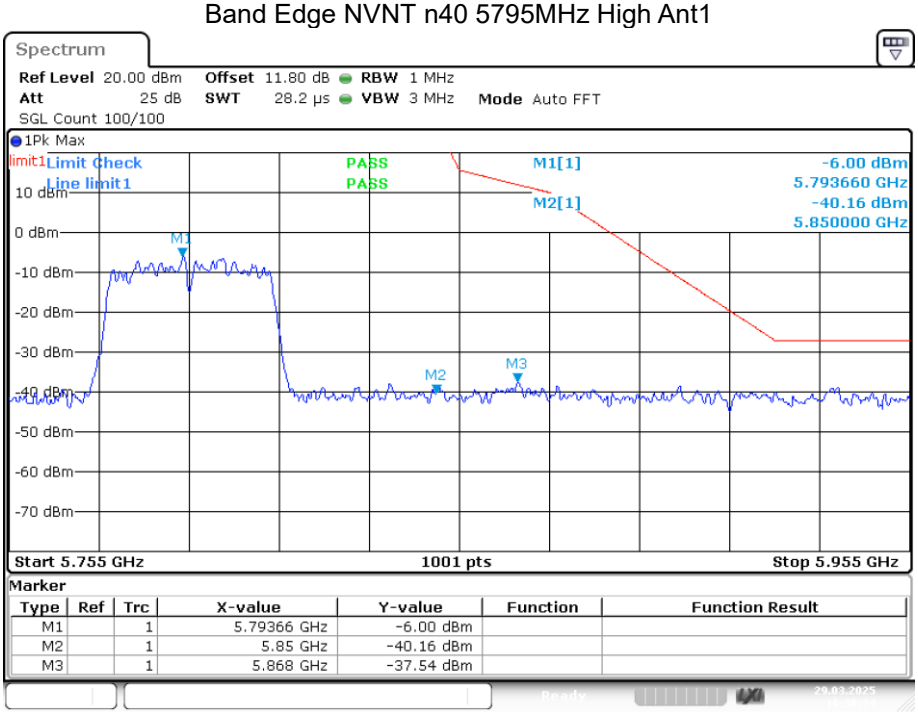
Band Edge NVNT n40 5795MHz High Ant1



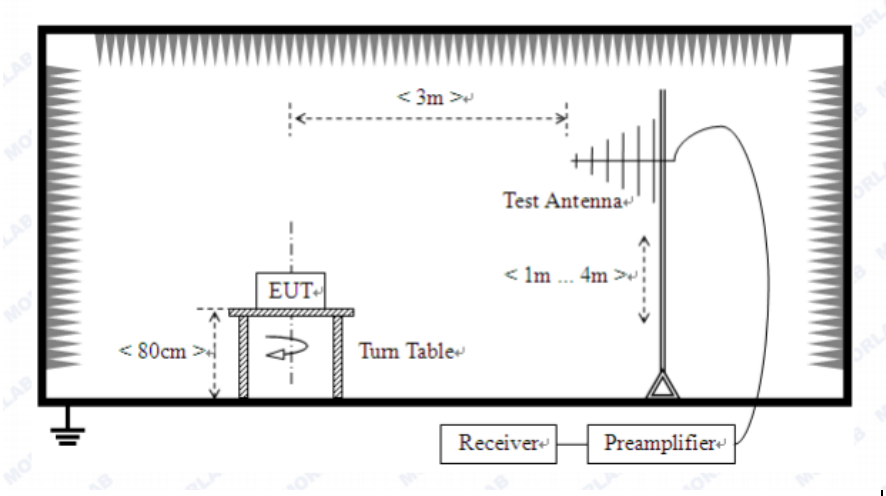
Date: 29.MAR.2025 16:30:34

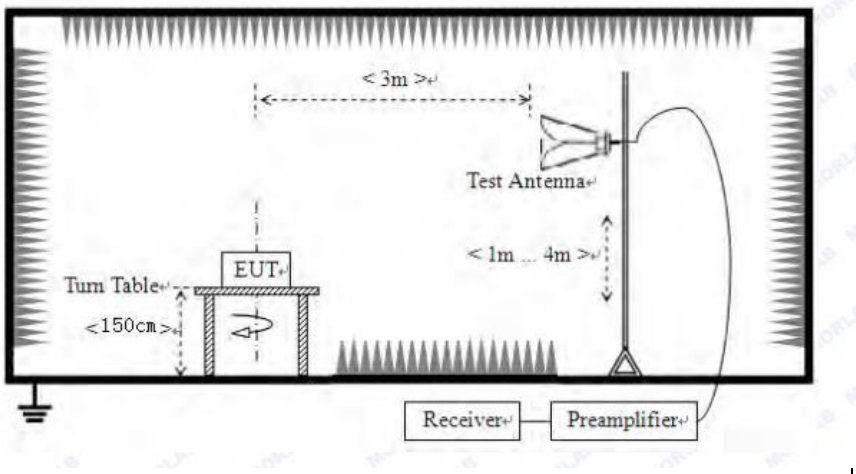
4.7 Radiated Emission

<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.
</td></tr>
</table>

	4. The test antenna shall be raised and lowered from 1m to 4m until a 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
33.80	47.42	11.25	0.59	30.08	29.18	40	-10.82	Vertical
56.20	40.75	11.93	0.81	29.96	23.53	40	-16.47	Vertical
123.48	46.84	9.4	1.36	29.57	28.03	43.5	-15.47	Vertical
174.43	43.43	8.5	1.7	29.31	24.32	43.5	-19.18	Vertical
440.80	37.67	16.29	3.05	29.41	27.60	46	-18.40	Vertical
859.40	33.11	21.83	4.69	29.14	30.49	46	-15.51	Vertical
65.17	35.82	8.73	0.9	29.89	15.56	40	-24.44	Horizontal
103.36	33.60	11.73	1.19	29.7	16.82	43.5	-26.68	Horizontal
269.26	45.24	12.53	2.22	29.79	30.20	46	-15.80	Horizontal
349.80	36.78	14.5	2.62	29.73	24.17	46	-21.83	Horizontal
626.26	35.65	19.43	3.83	29.27	29.64	46	-16.36	Horizontal
956.14	40.65	22.54	5.06	29.1	39.15	46	-6.85	Horizontal

Above 1GHz:

U-NII-1

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
10420.27	28.05	16.29	14.62	32.65	26.31	74.00	-47.69	Vertical
15630.14	28.90	21.83	17.66	34.46	33.93	74.00	-40.07	Vertical
10420.20	30.63	8.73	14.62	32.65	21.33	74.00	-52.67	Horizontal
15630.20	33.24	11.73	17.66	34.46	28.17	74.00	-45.83	Horizontal

U-NII-2A

802.11ac(HT80) 5290MHz

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
10580.17	27.86	16.29	14.62	32.65	26.12	74.00	-47.88	Vertical
15870.00	28.99	21.83	17.66	34.46	34.02	74.00	-39.98	Vertical
10580.23	32.41	8.73	14.62	32.65	23.11	74.00	-50.89	Horizontal
15870.17	32.53	11.73	17.66	34.46	27.46	74.00	-46.54	Horizontal

U-NII-2C

802.11ac40 5510MHz

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
11020.10	25.61	16.29	14.62	32.65	23.87	74.00	-50.13	Vertical
16530.29	29.23	21.83	17.66	34.46	34.26	74.00	-39.74	Vertical
11020.26	30.09	8.73	14.62	32.65	20.79	74.00	-53.21	Horizontal
16530.05	32.06	11.73	17.66	34.46	26.99	74.00	-47.01	Horizontal

802.11ac40 5670MHz

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
11020.02	26.16	16.29	14.62	32.65	24.42	74.00	-49.58	Vertical
16530.28	28.33	21.83	17.66	34.46	33.36	74.00	-40.64	Vertical
11020.10	31.13	8.73	14.62	32.65	21.83	74.00	-52.17	Horizontal
16530.20	31.81	11.73	17.66	34.46	26.74	74.00	-47.26	Horizontal

U-NII-3

802.11a(HT20) 5745MHz

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
11490.21	27.07	16.29	14.62	32.65	25.33	74.00	-48.67	Vertical
17235.29	29.35	21.83	17.66	34.46	34.38	74.00	-39.62	Vertical
11490.05	31.74	8.73	14.62	32.65	22.44	74.00	-51.56	Horizontal
17235.06	34.32	11.73	17.66	34.46	29.25	74.00	-44.75	Horizontal

802.11a(HT20) 5785MHz

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
11570.14	24.68	16.29	14.62	32.65	22.94	74.00	-51.06	Vertical
17355.29	30.83	21.83	17.66	34.46	35.86	74.00	-38.14	Vertical
11570.32	30.98	8.73	14.62	32.65	21.68	74.00	-52.32	Horizontal
17355.05	31.62	11.73	17.66	34.46	26.55	74.00	-47.45	Horizontal

802.11a(HT20) 5825MHz

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
11650.02	27.13	16.29	14.62	32.65	25.39	74.00	-48.61	Vertical
17475.08	27.49	21.83	17.66	34.46	32.52	74.00	-41.48	Vertical
11650.22	29.90	8.73	14.62	32.65	20.60	74.00	-53.40	Horizontal
17475.07	32.03	11.73	17.66	34.46	26.96	74.00	-47.04	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 data of the worst case.

5 Model List

Model List			
HS-X22	HS-X23.8	HS-X24	HS-X25
HS-X27	HS-X32	HS-X43	HS-Q24
HS-X32 PRO MAX	HS-Q22	HS-Q23.8	HS-Q43
HS-Q25	HS-Q27	HS-Q32	HS-K23.8
HS-Q32 PRO	HS-Q32 PRO MAX	HS-K22	HS-K32
HS-K24	HS-K25	HS-K27	HS-A22
HS-K43	HS-K32 PRO	HS-K32 PRO MAX	HS-A27
HS-A23.8	HS-A24	HS-A25	HS-A32 PRO MAX
HS-A32	HS-A43	HS-A32 PRO	HC-S25
HS-S22	HS-S23.8	HS-S24	HC-S37
HS-S27	HS-S32	HS-S43	HS-ZH23.8
HS-S32 PRO	HS-S32 PRO MAX	HS-ZH22	HS-ZH32
HS-ZH24	HS-ZH25	HS-ZH27	HS-J22
HS-ZH43	HS-ZH32 PRO	HS-ZH32 PRO MAX	HS-J27
HS-J23.8	HS-J24	HS-J25	HS-J32 PRO MAX
HS-J32	HS-J43	HS-J32 PRO	HC-X25
HC-X22	HC-X23.8	HC-X24	HC-X32 PRO
HC-X27	HC-X32	HC-X43	HC-Q24
HC-X32 PRO MAX	HC-Q22	HC-Q23.8	HC-Q43
HC-Q25	HC-Q27	HC-Q32	HC-K23.8
HC-Q32 PRO	HC-Q32 PRO MAX	HC-K22	HC-K32
HC-K24	HC-K25	HC-K27	HC-A22
HC-K43	HC-K32 PRO	HC-K32 PRO MAX	HC-A27
HC-A23.8	HC-A24	HC-A25	HC-A32 PRO MAX
HC-A32	HC-A43	HC-A32 PRO	HC-S25
HC-S22	HC-S23.8	HC-S24	HC-S37
HC-S27	HC-S32	HC-S43	HC-ZH23.8
HC-S32 PRO	HC-S32 PRO MAX	HC-ZH22	HC-ZH32
HC-ZH24	HC-ZH25	HC-ZH27	HC-J22
HC-ZH43	HC-ZH32 PRO	HC-ZH32 PRO MAX	HC-J27
HCJ23.8	HC-J24	HC-J25	HC-J32 PRO MAX
HC-J32	HC-J43	HC-J32 PRO	

--------END OF REPORT-------