

Radiated Spurious Emission

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the emissions below the noise floor will not be recorded in the report.

If disturbances were found more than 20dB below limit line, the mark is not required for the EUT.

Radiated measurements are performed by rotating the EUT in different orthogonal test planes.

EUT stand-up position (Z axis), lie-down position (X, Y axis). Receiver antenna polarization (Horizontal and Vertical). The worst-case configuration and its corresponding results are documented in the test report.

NR SA	Z axis, Vertical polarization
EN-DC	Y axis, Vertical polarization

NR n2 CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
20MHz	2	3740.50	-64.15	2.60	12.50	Vertical	-54.25	-13.00	41.25	17
	3	5610.00	--	--	--	--	--	--	--	--
	4	7480.00	--	--	--	--	--	--	--	--
	5	9350.00	--	--	--	--	--	--	--	--
	6	11222.60	--	--	--	--	--	--	--	--
	7	13090.00	--	--	--	--	--	--	--	--
	8	14960.00	--	--	--	--	--	--	--	--
	9	16830.00	--	--	--	--	--	--	--	--
	10	18700.00	--	--	--	--	--	--	--	--

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

NR n5 CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
20MHz	2	1674.06	--	--	--	--	--	--	--	--
	3	2479.50	--	--	--	--	--	--	--	--
	4	3326.00	--	--	--	--	--	--	--	--
	5	4157.50	--	--	--	--	--	--	--	--
	6	4989.00	--	--	--	--	--	--	--	--
	7	5820.50	--	--	--	--	--	--	--	--
	8	6652.00	--	--	--	--	--	--	--	--
	9	7483.50	--	--	--	--	--	--	--	--
	10	8315.00	-51.13	4.30	12.50	Vertical	-45.08	-13.00	32.08	18

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

NR n12 CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
10MHz	2	1405.00	--	--	--	--	--	--	--	--
	3	2108.93	--	--	--	--	--	--	--	--
	4	2810.00	--	--	--	--	--	--	--	--
	5	3512.50	--	--	--	--	--	--	--	--
	6	4215.00	--	--	--	--	--	--	--	--
	7	4917.50	--	--	--	--	--	--	--	--
	8	5620.00	--	--	--	--	--	--	--	--
	9	6322.50	--	--	--	--	--	--	--	--
	10	7025.00	-53.45	4.20	11.80	Vertical	-48.00	-13.00	35.00	193

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

NR n13 CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
10MHz	2	1597.45	-70.32	3.20	12.50	Vertical	-61.02	-40.00	21.02	156
	3	2331.93	-65.73	4.40	12.30	Vertical	-59.98	-13.00	46.98	99
	4	3108.00	--	--	--	--	--	--	--	--
	5	3885.00	--	--	--	--	--	--	--	--
	6	4662.00	--	--	--	--	--	--	--	--
	7	5439.00	--	--	--	--	--	--	--	--
	8	6216.00	--	--	--	--	--	--	--	--
	9	6906.00	--	--	--	--	--	--	--	--
	10	7770.00	-51.55	4.40	12.30	Vertical	-45.80	-13.00	32.80	26

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

NR n25 CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
20MHz	2	3745.00	--	--	--	--	--	--	--	--
	3	5617.50	--	--	--	--	--	--	--	--
	4	7490.00	--	--	--	--	--	--	--	--
	5	9362.50	--	--	--	--	--	--	--	--
	6	11235.00	--	--	--	--	--	--	--	--
	7	13107.50	--	--	--	--	--	--	--	--
	8	14980.00	-51.35	5.80	13.10	Vertical	-44.05	-13.00	31.05	41
	9	16852.50	--	--	--	--	--	--	--	--
	10	18725.00	--	--	--	--	--	--	--	--
Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Vertical position.										

NR n26 (824 ~ 849) CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
10MHz	2	1658.00	--	--	--	--	--	--	--	--
	3	2487.00	--	--	--	--	--	--	--	--
	4	3316.00	--	--	--	--	--	--	--	--
	5	4145.00	--	--	--	--	--	--	--	--
	6	4974.00	--	--	--	--	--	--	--	--
	7	5803.00	--	--	--	--	--	--	--	--
	8	6632.00	--	--	--	--	--	--	--	--
	9	7461.00	--	--	--	--	--	--	--	--
	10	8290.00	-52.32	4.30	12.50	Vertical	-46.27	-13.00	33.27	14
Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Vertical position.										

NR n26 (814 ~ 824) CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
10MHz	2	1628.00	--	--	--	--	--	--	--	--
	3	2442.00	--	--	--	--	--	--	--	--
	4	3256.00	--	--	--	--	--	--	--	--
	5	4070.00	--	--	--	--	--	--	--	--
	6	4884.00	--	--	--	--	--	--	--	--
	7	5698.00	--	--	--	--	--	--	--	--
	8	6512.00	--	--	--	--	--	--	--	--
	9	7326.00	--	--	--	--	--	--	--	--
	10	8140.00	-50.67	4.30	12.30	Vertical	-44.82	-13.00	31.82	287

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

NR n30 CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
10MHz	2	4610.00	--	--	--	--	--	--	--	--
	3	6915.00	--	--	--	--	--	--	--	--
	4	9220.00	--	--	--	--	--	--	--	--
	5	11525.00	--	--	--	--	--	--	--	--
	6	13830.00	-57.45	5.70	11.30	Vertical	-51.85	-40.00	11.85	135
	7	16135.00	--	--	--	--	--	--	--	--
	8	18440.00	--	--	--	--	--	--	--	--
	9	20745.00	--	--	--	--	--	--	--	--
	10	23050.00	--	--	--	--	--	--	--	--

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

NR n38 CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
20MHz	2	5085.98	--	--	--	--	--	--	--	--
	3	7628.97	--	--	--	--	--	--	--	--
	4	10171.96	--	--	--	--	--	--	--	--
	5	12714.95	--	--	--	--	--	--	--	--
	6	15257.94	-55.77	6.10	16.80	Vertical	-45.07	-25.00	20.07	31
	7	17800.93	--	--	--	--	--	--	--	--
	8	20343.92	--	--	--	--	--	--	--	--
	9	22886.91	--	--	--	--	--	--	--	--
	10	25429.90	--	--	--	--	--	--	--	--

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

NR n41 CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
100MHz	2	5085.98	--	--	--	--	--	--	--	--
	3	7628.97	--	--	--	--	--	--	--	--
	4	10171.96	--	--	--	--	--	--	--	--
	5	12714.95	--	--	--	--	--	--	--	--
	6	15257.94	-56.09	6.10	16.80	Vertical	-45.39	-25.00	20.39	14
	7	17800.93	--	--	--	--	--	--	--	--
	8	20343.92	--	--	--	--	--	--	--	--
	9	22886.91	--	--	--	--	--	--	--	--
	10	25429.90	--	--	--	--	--	--	--	--

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

NR n66 CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
20MHz	2	3450.00	--	--	--	--	--	--	--	--
	3	5175.00	--	--	--	--	--	--	--	--
	4	6900.00	--	--	--	--	--	--	--	--
	5	8625.00	--	--	--	--	--	--	--	--
	6	10350.00	--	--	--	--	--	--	--	--
	7	12075.00	--	--	--	--	--	--	--	--
	8	13800.00	--	--	--	--	--	--	--	--
	9	15525.00	--	--	--	--	--	--	--	--
	10	17250.00	-58.33	6.10	14.20	Vertical	-50.23	-13.00	37.23	78

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

NR n77 Subset 1 CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
100MHz	2	6900.00	--	--	--	--	--	--	--	--
	3	10350.00	--	--	--	--	--	--	--	--
	4	13800.00	--	--	--	--	--	--	--	--
	5	17250.00	-49.33	6.0	10.10	Vertical	-45.23	-13.00	32.23	14
	6	20700.00	--	--	--	--	--	--	--	--
	7	24150.00	--	--	--	--	--	--	--	--
	8	27600.00	--	--	--	--	--	--	--	--
	9	31050.00	--	--	--	--	--	--	--	--
	10	34500.00	--	--	--	--	--	--	--	--

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

NR n77 Subset 2 CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
100MHz	2	7580.00	--	--	--	--	--	--	--	--
	3	11370.00	--	--	--	--	--	--	--	--
	4	15160.00	-51.62	5.8	12.80	Vertical	-44.62	-13.00	31.62	133
	5	18950.00	--	--	--	--	--	--	--	--
	6	22740.00	--	--	--	--	--	--	--	--
	7	26530.00	--	--	--	--	--	--	--	--
	8	30320.00	--	--	--	--	--	--	--	--
	9	34110.00	--	--	--	--	--	--	--	--
	10	37900.00	--	--	--	--	--	--	--	--

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

NR n78 Subset 1 CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
100MHz	2	6900.00	--	--	--	--	--	--	--	--
	3	10350.00	--	--	--	--	--	--	--	--
	4	13800.00	-49.87	5.8	12.80	Vertical	-42.87	-13.00	29.87	25
	5	17250.00	--	--	--	--	--	--	--	--
	6	20700.00	--	--	--	--	--	--	--	--
	7	24150.00	--	--	--	--	--	--	--	--
	8	27600.00	--	--	--	--	--	--	--	--
	9	31050.00	--	--	--	--	--	--	--	--
	10	34500.00	--	--	--	--	--	--	--	--

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

NR n78 Subset 2 CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
100MHz	2	7400.00	--	--	--	--	--	--	--	--
	3	11100.00	--	--	--	--	--	--	--	--
	4	14800.00	-51.20	5.8	12.80	Vertical	-44.20	-13.00	31.20	133
	5	18500.00	--	--	--	--	--	--	--	--
	6	22200.00	--	--	--	--	--	--	--	--
	7	25900.00	--	--	--	--	--	--	--	--
	8	29600.00	--	--	--	--	--	--	--	--
	9	33300.00	--	--	--	--	--	--	--	--
	10	37000.00	--	--	--	--	--	--	--	--

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Vertical position.

DC_5A_n41A CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
100MHz	2	5085.98	--	--	--	--	--	--	--	--
	3	7628.97	--	--	--	--	--	--	--	--
	4	10171.96	--	--	--	--	--	--	--	--
	5	12714.95	-52.19	5.40	14.00	Vertical	-43.59	-13.00	30.59	75
	6	15257.94	--	--	--	--	--	--	--	--
	7	17800.93	--	--	--	--	--	--	--	--
	8	20343.92	--	--	--	--	--	--	--	--
	9	22886.91	--	--	--	--	--	--	--	--
	10	25429.90	--	--	--	--	--	--	--	--

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.
2. The worst emission was found in the antenna is Vertical position.

DC_5A_n77A Subset 1 CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
100MHz	2	6900.00	--	--	--	--	--	--	--	--
	3	10350.00	--	--	--	--	--	--	--	--
	4	13800.00	-50.88	5.8	12.80	Vertical	-43.88	-13.00	30.88	25
	5	17250.00	--	--	--	--	--	--	--	--
	6	20700.00	--	--	--	--	--	--	--	--
	7	24150.00	--	--	--	--	--	--	--	--
	8	27600.00	--	--	--	--	--	--	--	--
	9	31050.00	--	--	--	--	--	--	--	--
	10	34500.00	--	--	--	--	--	--	--	--
Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Vertical position.										

DC_5A_n77A Subset 2 CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
100MHz	2	7580.00	--	--	--	--	--	--	--	--
	3	11370.00	--	--	--	--	--	--	--	--
	4	15160.00	-51.78	5.8	12.80	Vertical	-44.78	-13.00	31.78	25
	5	18950.00	--	--	--	--	--	--	--	--
	6	22740.00	--	--	--	--	--	--	--	--
	7	26530.00	--	--	--	--	--	--	--	--
	8	30320.00	--	--	--	--	--	--	--	--
	9	34110.00	--	--	--	--	--	--	--	--
	10	37900.00	--	--	--	--	--	--	--	--
Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor. 2. The worst emission was found in the antenna is Vertical position.										

DC_5A_n78A Subset 1 CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
100MHz	2	6899.30	-56.93	4.2	11.80	Vertical	-49.33	-13.00	36.33	98
	3	10350.00	--	--	--	--	--	--	--	--
	4	13800.00	--	--	--	--	--	--	--	--
	5	17250.00	--	--	--	--	--	--	--	--
	6	20700.00	--	--	--	--	--	--	--	--
	7	24150.00	--	--	--	--	--	--	--	--
	8	27600.00	--	--	--	--	--	--	--	--
	9	31050.00	--	--	--	--	--	--	--	--
	10	34500.00	--	--	--	--	--	--	--	--

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

DC_5A_n78A Subset 2 CH-Middle

Band width	Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	Result Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
100MHz	2	7400.00	--	--	--	--	--	--	--	--
	3	11100.00	--	--	--	--	--	--	--	--
	4	14800.00	-53.62	5.8	12.80	Vertical	-46.62	-13.00	33.62	25
	5	18500.00	--	--	--	--	--	--	--	--
	6	22200.00	--	--	--	--	--	--	--	--
	7	25900.00	--	--	--	--	--	--	--	--
	8	29600.00	--	--	--	--	--	--	--	--
	9	33300.00	--	--	--	--	--	--	--	--
	10	37000.00	--	--	--	--	--	--	--	--

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.