

ANNEX A: Test Result

The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (Y axis) and the loop antenna is vertical, the others are vertical and horizontal. and the worst case was recorded.

Draft

1. Unwanted Emission

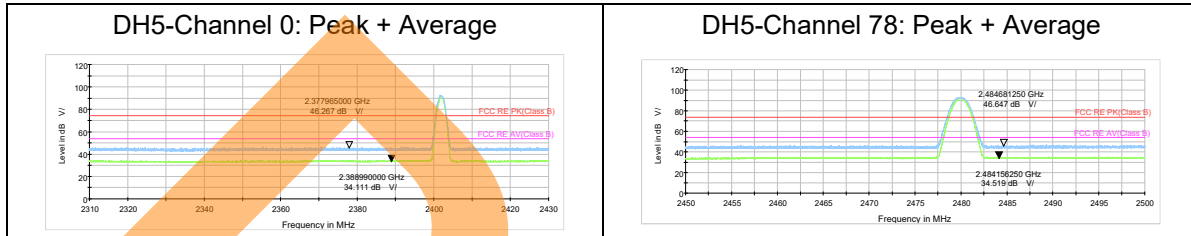
1.1. Bluetooth

The following graphs display the maximum values of horizontal and vertical by software. Blue trace uses the peak detection, Green trace uses the average detection.

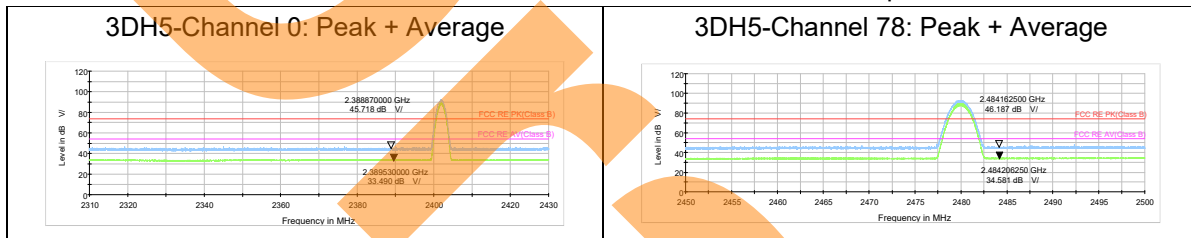
A symbol ($\text{dB } \mu\text{V}$) in the test plot below means ($\text{dB}\mu\text{V/m}$)

The signal beyond the limit is carrier.

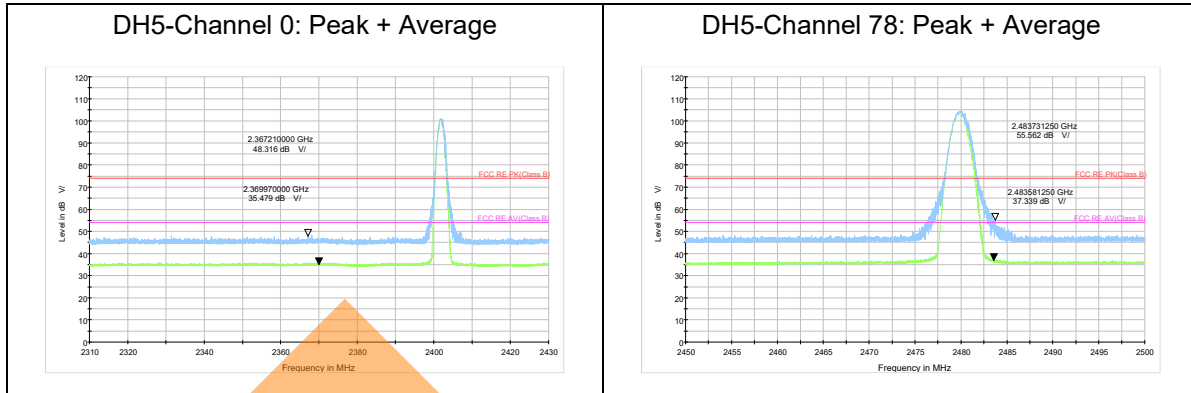
Left



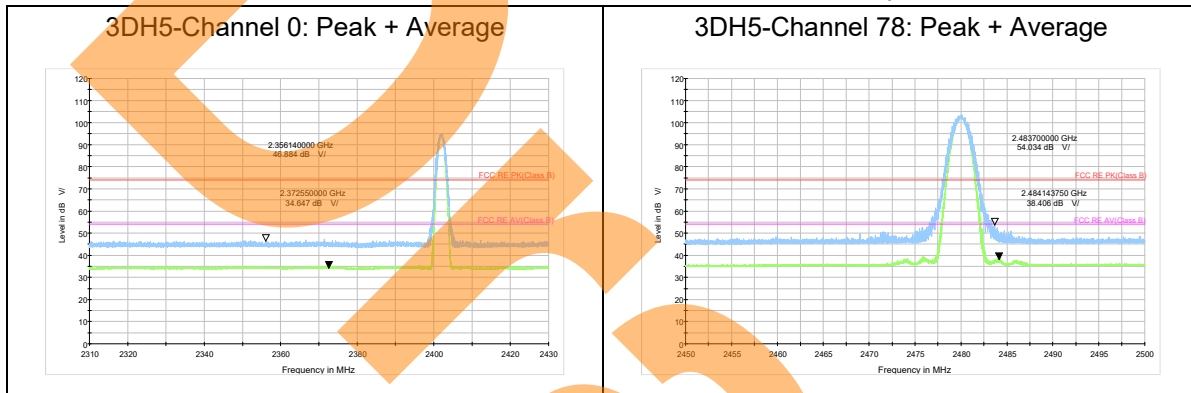
The bandage was performed in all EDR mode (2DH5 and 3DH5), 3DH5 was selected as the worse condition. The test data of the worst-case condition was recorded in this report.



Right



The bandage was performed in all EDR mode (2DH5 and 3DH5), 3DH5 was selected as the worse condition. The test data of the worst-case condition was recorded in this report.

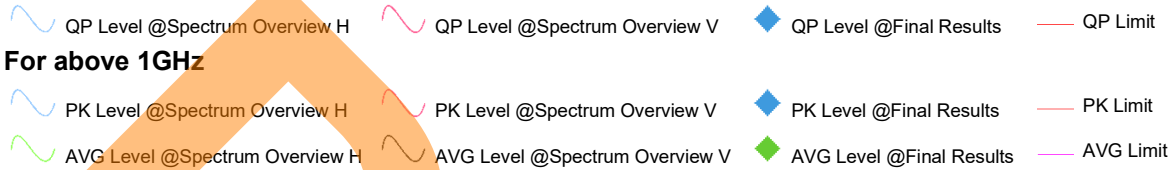


Result of RE

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier. The Radiates Emission from 9kHz to 30MHz and 18GHz to 26.5GHz are more than 20dB below the limit are not reported.

Remark:

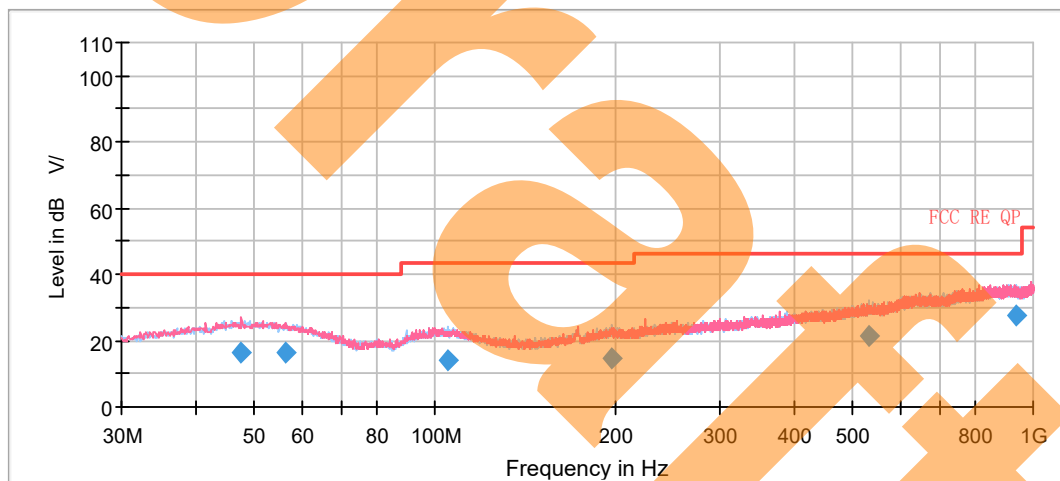
1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)
2. Margin = Limit – Quasi-Peak/ MAX Peak/ Average
3. A symbol (dB V) in the test plot below means (dBμV/m)
4. The following graphs display the maximum values of horizontal and vertical by software.
5. For below 1GHz



Continuous TX mode:

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels. The test data of the worst-case condition was recorded in this report.

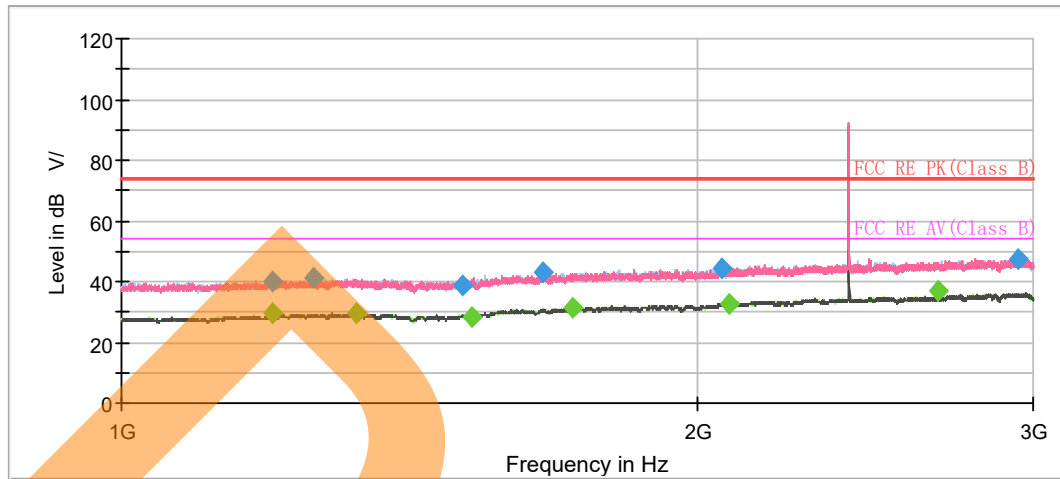
Left



Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
47.581250	16.60	40.00	23.40	109.0	V	337.0	21.2
56.190000	16.58	40.00	23.42	125.0	V	351.0	20.5
105.417500	14.15	43.50	29.35	125.0	H	43.0	19.2
198.416250	14.89	43.50	28.61	175.0	H	190.0	19.0
531.490000	21.48	46.00	24.52	175.0	H	129.0	26.1
939.860000	27.60	46.00	18.40	185.0	H	169.0	30.8

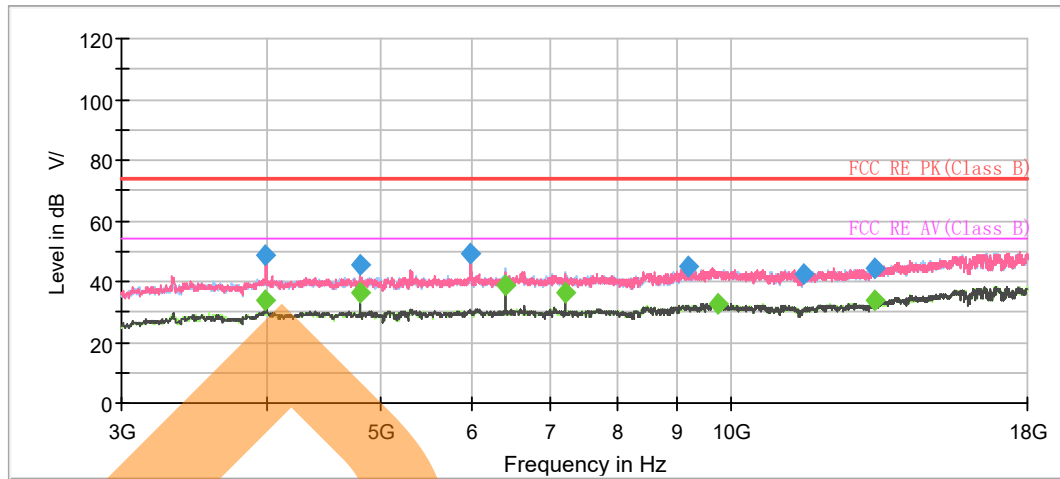
DH5-Channel 0



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

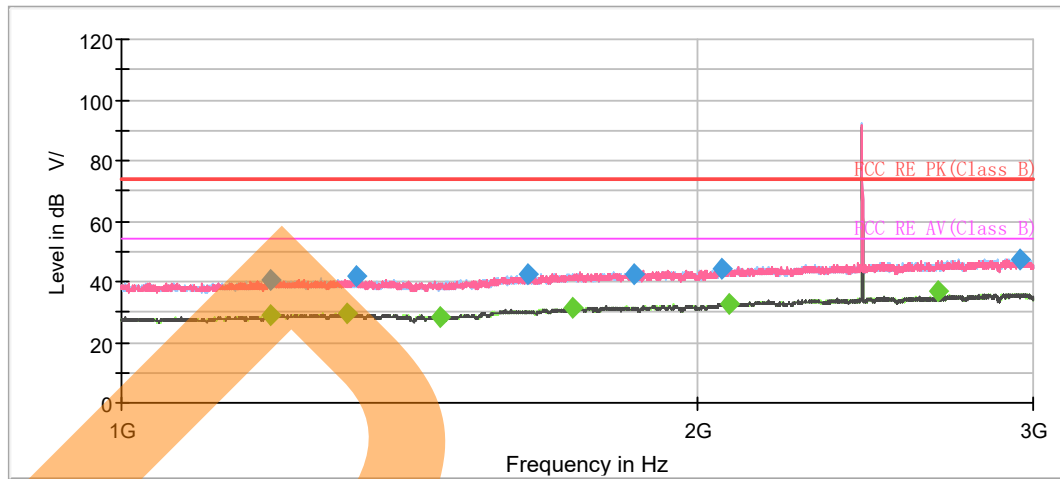
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1198.500000	---	29.53	54.00	24.47	500.0	200.0	V	127.0	-8.8
1198.500000	40.30	---	74.00	33.70	500.0	200.0	V	127.0	-8.8
1261.000000	40.95	---	74.00	33.05	500.0	200.0	H	344.0	-8.5
1326.250000	---	29.57	54.00	24.43	500.0	200.0	H	176.0	-8.0
1509.750000	39.07	---	74.00	34.93	500.0	100.0	H	58.0	-7.0
1525.750000	---	28.30	54.00	25.70	500.0	100.0	H	53.0	-6.9
1660.250000	43.04	---	74.00	30.96	500.0	100.0	V	93.0	-6.1
1722.750000	---	31.64	54.00	22.36	500.0	200.0	V	347.0	-5.9
2063.500000	44.42	---	74.00	29.58	500.0	100.0	V	347.0	-4.1
2079.000000	---	32.75	54.00	21.25	500.0	200.0	V	352.0	-3.9
2673.000000	---	37.06	54.00	16.94	500.0	100.0	V	299.0	-1.8
2948.000000	47.35	---	74.00	26.65	500.0	100.0	H	111.0	-0.9



Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3990.000000	---	33.83	54.00	20.17	500.0	200.0	V	313.0	-6.8
3991.875000	48.80	---	74.00	25.20	500.0	200.0	V	313.0	-6.8
4803.750000	---	36.22	54.00	17.78	500.0	200.0	H	248.0	-6.1
4803.750000	45.51	---	74.00	28.49	500.0	200.0	H	248.0	-6.1
5981.250000	49.42	---	74.00	24.58	500.0	100.0	V	279.0	-4.6
6405.000000	---	39.02	54.00	14.98	500.0	200.0	H	248.0	-4.2
7205.625000	---	36.54	54.00	17.46	500.0	100.0	V	297.0	-3.0
9185.625000	44.64	---	74.00	29.36	500.0	200.0	H	0.0	-1.0
9778.125000	---	32.72	54.00	21.28	500.0	200.0	V	170.0	-0.5
11565.000000	42.26	---	74.00	31.74	500.0	200.0	H	314.0	-0.5
13308.750000	44.41	---	74.00	29.59	500.0	200.0	V	324.0	2.3
13325.625000	---	33.59	54.00	20.41	500.0	200.0	V	333.0	2.3

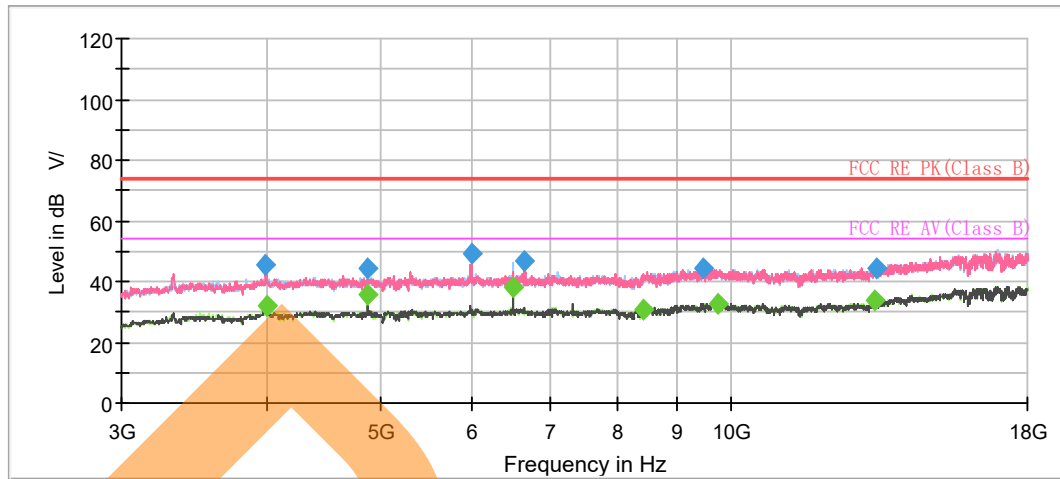
DH5-Channel 39



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

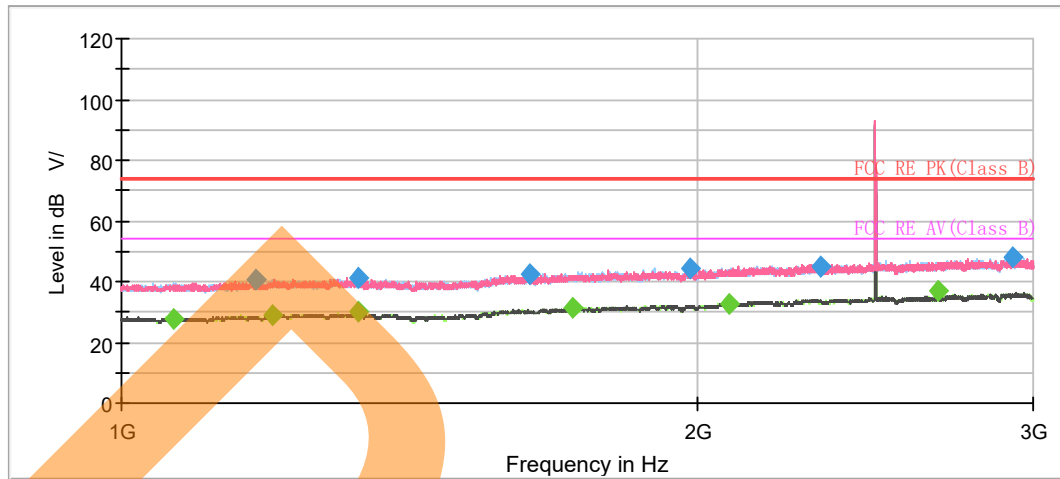
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1196.000000	---	28.91	54.00	25.09	500.0	100.0	V	304.0	-8.9
1197.750000	40.49	---	74.00	33.51	500.0	100.0	H	14.0	-8.8
1312.750000	---	29.41	54.00	24.59	500.0	200.0	H	198.0	-8.1
1327.250000	41.74	---	74.00	32.26	500.0	100.0	V	315.0	-8.0
1468.500000	---	28.28	54.00	25.72	500.0	200.0	H	332.0	-7.1
1633.750000	42.71	---	74.00	31.29	500.0	100.0	V	337.0	-6.2
1721.000000	---	31.34	54.00	22.66	500.0	100.0	H	84.0	-5.9
1856.500000	42.77	---	74.00	31.23	500.0	100.0	V	337.0	-5.2
2059.250000	44.24	---	74.00	29.76	500.0	200.0	V	47.0	-4.1
2079.000000	---	32.91	54.00	21.09	500.0	200.0	V	164.0	-3.9
2673.000000	---	36.81	54.00	17.19	500.0	100.0	V	228.0	-1.8
2950.750000	47.56	---	74.00	26.44	500.0	200.0	V	120.0	-0.9



Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3984.375000	45.49	---	74.00	28.51	500.0	200.0	V	290.0	-6.8
3995.625000	---	31.85	54.00	22.15	500.0	100.0	V	283.0	-6.8
4880.625000	---	35.70	54.00	18.30	500.0	200.0	H	271.0	-5.7
4880.625000	44.06	---	74.00	29.94	500.0	200.0	H	271.0	-5.7
5992.500000	49.25	---	74.00	24.75	500.0	100.0	V	283.0	-4.5
6508.125000	---	38.39	54.00	15.61	500.0	200.0	H	264.0	-3.7
6658.125000	46.87	---	74.00	27.13	500.0	100.0	V	289.0	-3.4
8437.500000	---	30.96	54.00	23.04	500.0	200.0	H	317.0	-2.1
9461.250000	44.15	---	74.00	29.85	500.0	100.0	V	336.0	-0.2
9778.125000	---	32.76	54.00	21.24	500.0	100.0	V	265.0	-0.5
13312.500000	---	33.69	54.00	20.31	500.0	100.0	H	349.0	2.3
13348.125000	44.54	---	74.00	29.46	500.0	100.0	V	208.0	2.4

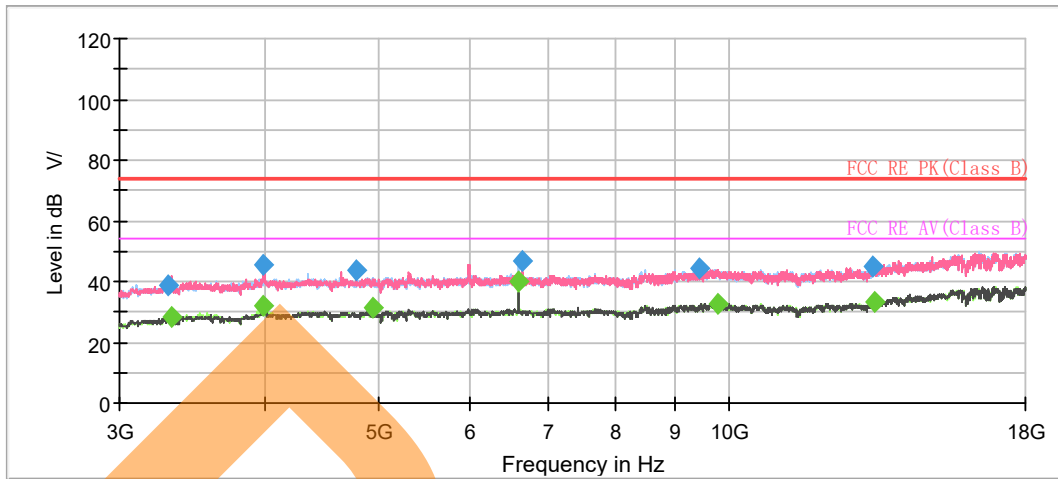
DH5-Channel 78



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1065.750000	---	27.71	54.00	26.29	500.0	100.0	V	185.0	-10.3
1176.750000	40.47	---	74.00	33.53	500.0	100.0	V	239.0	-9.3
1199.000000	---	28.77	54.00	25.23	500.0	100.0	V	309.0	-8.8
1329.000000	41.40	---	74.00	32.60	500.0	100.0	V	309.0	-8.0
1330.250000	---	30.15	54.00	23.85	500.0	100.0	V	309.0	-8.0
1636.250000	42.71	---	74.00	31.29	500.0	200.0	V	12.0	-6.2
1724.000000	---	31.30	54.00	22.70	500.0	100.0	V	270.0	-5.9
1984.750000	44.59	---	74.00	29.41	500.0	200.0	H	35.0	-4.6
2079.250000	---	32.88	54.00	21.12	500.0	100.0	V	223.0	-3.9
2321.750000	44.74	---	74.00	29.26	500.0	100.0	V	249.0	-2.9
2673.000000	---	37.07	54.00	16.93	500.0	100.0	V	103.0	-1.8
2928.500000	47.78	---	74.00	26.22	500.0	100.0	V	196.0	-1.0

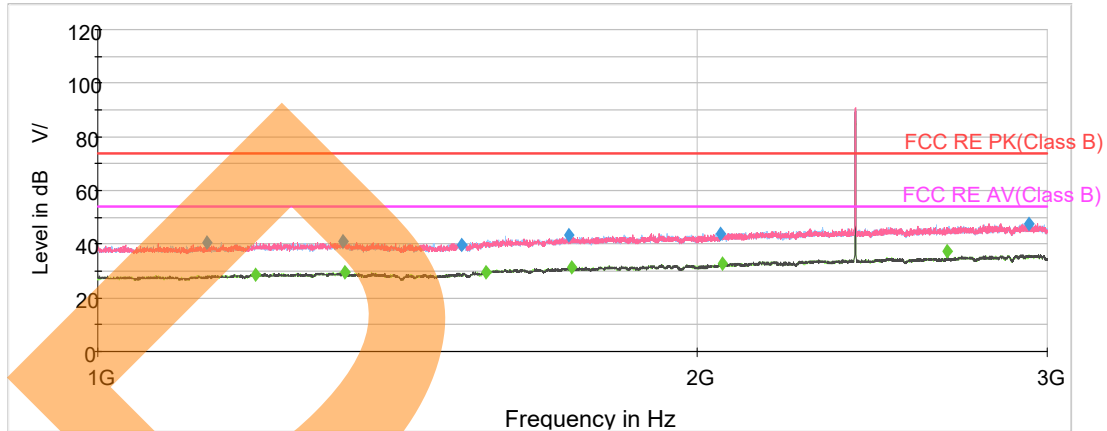


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3307.500000	38.63	---	74.00	35.37	500.0	100.0	H	258.0	-9.1
3331.875000	---	28.49	54.00	25.51	500.0	100.0	V	268.0	-9.1
3988.125000	45.34	---	74.00	28.66	500.0	200.0	V	312.0	-6.8
3991.875000	---	32.14	54.00	21.86	500.0	200.0	V	318.0	-6.8
4798.125000	43.45	---	74.00	30.55	500.0	100.0	V	11.0	-6.1
4959.375000	---	31.33	54.00	22.67	500.0	100.0	V	291.0	-5.4
6613.125000	---	39.90	54.00	14.10	500.0	200.0	H	257.0	-3.4
6652.500000	46.56	---	74.00	27.44	500.0	100.0	V	297.0	-3.4
9450.000000	44.47	---	74.00	29.53	500.0	200.0	V	0.0	-0.3
9781.875000	---	32.82	54.00	21.18	500.0	100.0	H	17.0	-0.5
13310.625000	45.06	---	74.00	28.94	500.0	100.0	H	47.0	2.3
13340.625000	---	33.54	54.00	20.46	500.0	200.0	V	135.0	2.3

The Radiates Emission was performed in all EDR mode (2DH5 and 3DH5), 3DH5 was selected as the worse condition. The test data of the worst-case condition was recorded in this report.

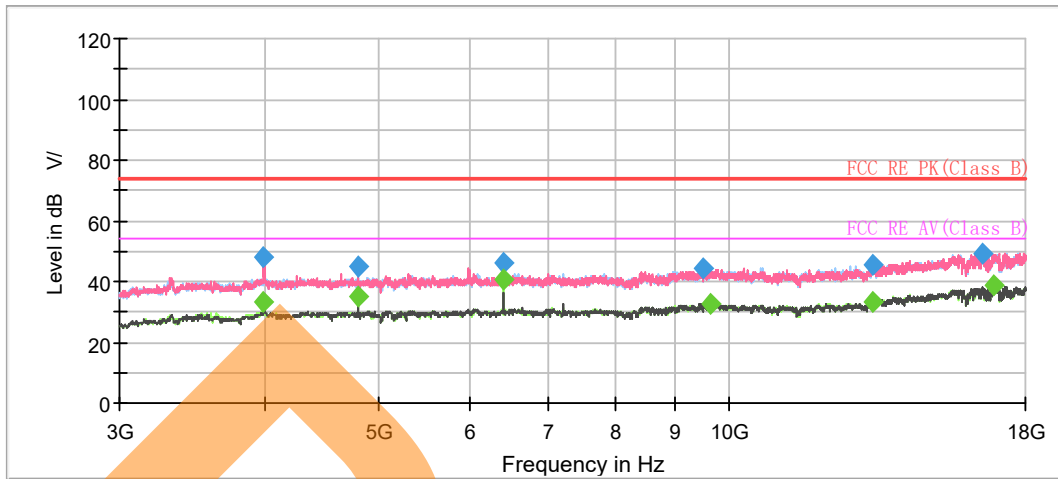
3DH5-Channel 0



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

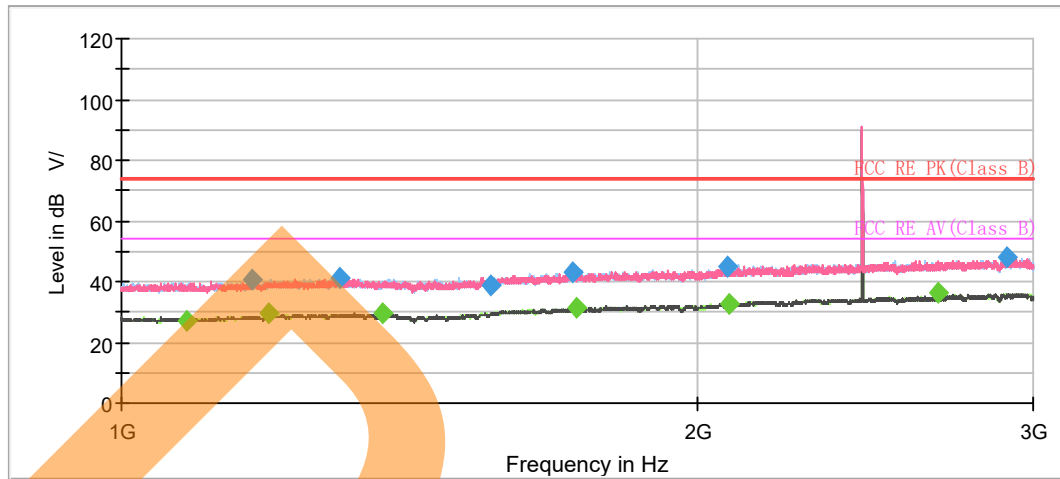
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1134.750000	40.66	---	74.00	33.34	500.0	100.0	V	189.0	-9.8
1200.500000	---	28.74	54.00	25.26	500.0	100.0	H	28.0	-8.8
1327.250000	41.25	---	74.00	32.75	500.0	100.0	V	221.0	-8.0
1330.250000	---	29.70	54.00	24.30	500.0	100.0	V	322.0	-8.0
1524.250000	39.58	---	74.00	34.42	500.0	100.0	H	123.0	-6.9
1566.750000	---	29.77	54.00	24.23	500.0	200.0	H	226.0	-6.6
1724.750000	43.50	---	74.00	30.50	500.0	100.0	V	333.0	-5.9
1730.250000	---	31.21	54.00	22.79	500.0	100.0	H	210.0	-5.8
2055.500000	44.07	---	74.00	29.93	500.0	200.0	V	74.0	-4.2
2061.000000	---	32.96	54.00	21.04	500.0	200.0	H	286.0	-4.1
2673.000000	---	37.17	54.00	16.83	500.0	100.0	V	200.0	-1.8
2937.000000	47.71	---	74.00	26.29	500.0	100.0	H	134.0	-1.0



Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3986.250000	48.12	---	74.00	25.88	500.0	200.0	V	313.0	-6.8
3990.000000	---	33.36	54.00	20.64	500.0	200.0	V	295.0	-6.8
4803.750000	---	35.20	54.00	18.80	500.0	200.0	H	262.0	-6.1
4803.750000	45.17	---	74.00	28.83	500.0	200.0	H	262.0	-6.1
6405.000000	46.31	---	74.00	27.69	500.0	200.0	H	250.0	-4.2
6405.000000	---	40.78	54.00	13.22	500.0	200.0	H	250.0	-4.2
9523.125000	44.40	---	74.00	29.60	500.0	200.0	V	4.0	-0.1
9641.250000	---	32.89	54.00	21.11	500.0	200.0	H	0.0	-0.6
13321.875000	45.62	---	74.00	28.38	500.0	100.0	V	0.0	2.3
13327.500000	---	33.52	54.00	20.48	500.0	100.0	V	273.0	2.3
16550.625000	49.42	---	74.00	24.58	500.0	100.0	H	49.0	8.1
16920.000000	---	38.61	54.00	15.39	500.0	200.0	V	33.0	8.8

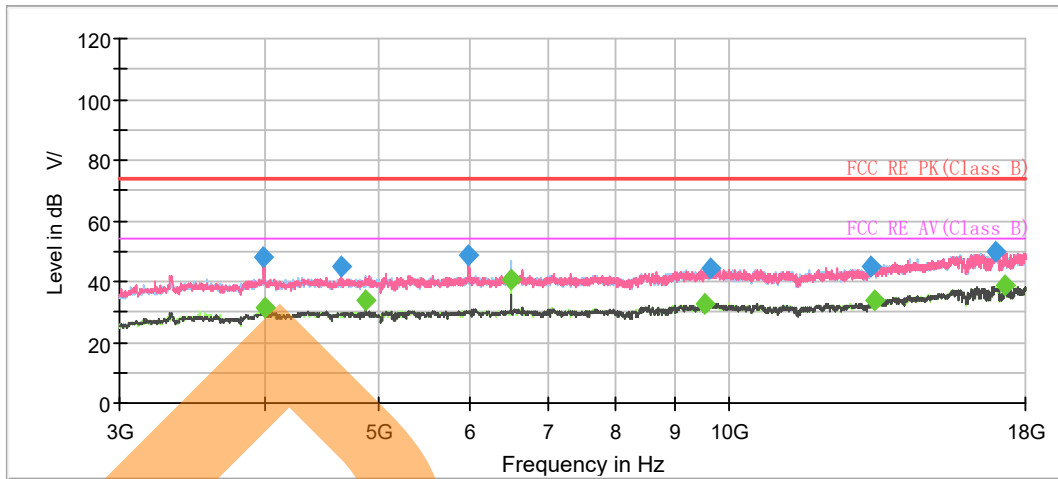
3DH5-Channel 39



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

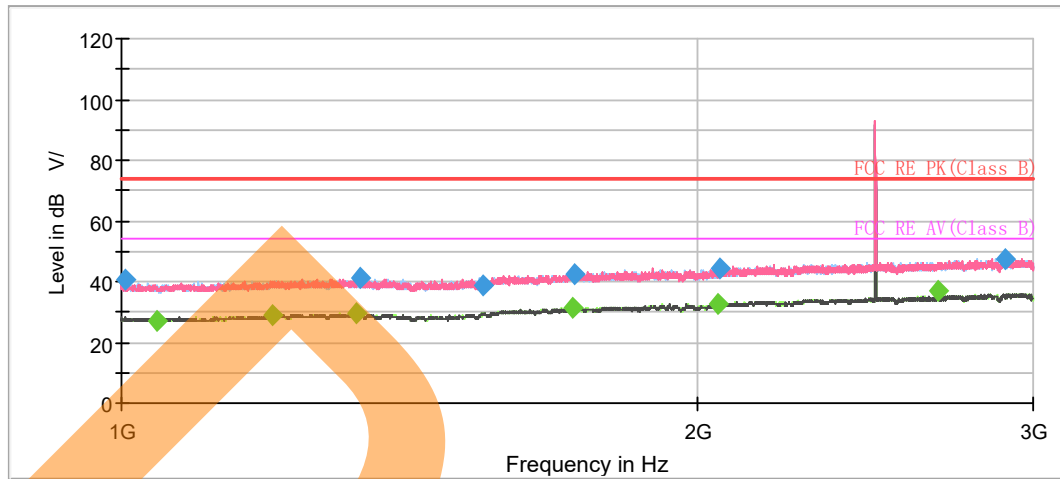
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1082.000000	---	27.28	54.00	26.72	500.0	100.0	H	117.0	-10.3
1171.250000	40.45	---	74.00	33.55	500.0	200.0	V	228.0	-9.4
1195.000000	---	29.61	54.00	24.39	500.0	200.0	H	265.0	-8.9
1300.750000	41.16	---	74.00	32.84	500.0	200.0	V	33.0	-8.2
1370.500000	---	29.36	54.00	24.64	500.0	100.0	V	334.0	-7.7
1559.500000	38.61	---	74.00	35.39	500.0	200.0	H	171.0	-6.7
1723.000000	42.82	---	74.00	31.18	500.0	200.0	H	333.0	-5.9
1729.750000	---	31.27	54.00	22.73	500.0	100.0	V	231.0	-5.8
2075.750000	44.87	---	74.00	29.13	500.0	100.0	V	0.0	-4.0
2079.000000	---	32.83	54.00	21.17	500.0	200.0	V	12.0	-3.9
2673.250000	---	36.56	54.00	17.44	500.0	100.0	V	308.0	-1.8
2906.500000	47.95	---	74.00	26.05	500.0	100.0	H	39.0	-1.0



Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3991.875000	47.74	---	74.00	26.26	500.0	200.0	V	299.0	-6.8
3995.625000	---	31.36	54.00	22.64	500.0	200.0	V	348.0	-6.8
4655.625000	45.07	---	74.00	28.93	500.0	100.0	V	296.0	-5.8
4880.625000	---	34.13	54.00	19.87	500.0	200.0	H	318.0	-5.7
5979.375000	48.67	---	74.00	25.33	500.0	100.0	V	278.0	-4.6
6508.125000	---	40.51	54.00	13.49	500.0	200.0	H	251.0	-3.7
9534.375000	---	32.80	54.00	21.20	500.0	200.0	V	44.0	-0.2
9660.000000	44.20	---	74.00	29.80	500.0	200.0	V	359.0	-0.6
13269.375000	44.79	---	74.00	29.21	500.0	100.0	V	307.0	2.2
13335.000000	---	33.90	54.00	20.10	500.0	200.0	H	245.0	2.3
16970.625000	49.73	---	74.00	24.27	500.0	200.0	H	130.0	8.8
17311.875000	---	38.64	54.00	15.36	500.0	100.0	H	80.0	9.4

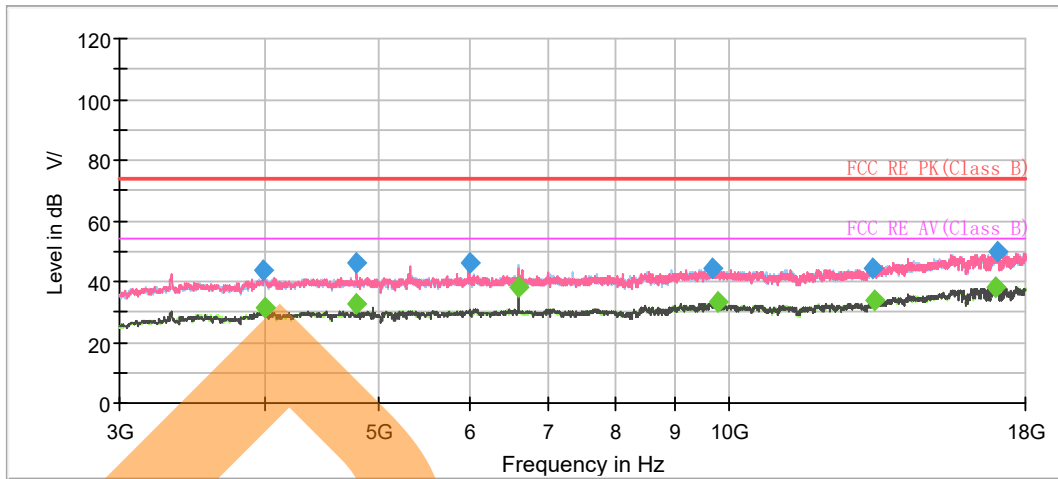
3DH5-Channel 78



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

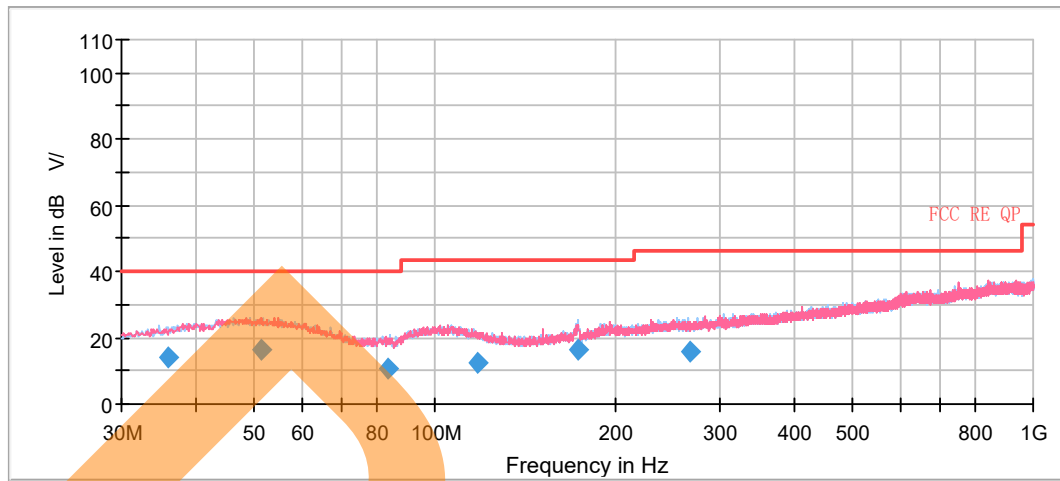
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1003.750000	40.49	---	74.00	33.51	500.0	200.0	V	266.0	-10.7
1044.250000	---	27.14	54.00	26.86	500.0	100.0	H	252.0	-10.5
1198.750000	---	28.99	54.00	25.01	500.0	200.0	V	298.0	-8.8
1328.000000	---	29.53	54.00	24.47	500.0	100.0	H	269.0	-8.0
1333.000000	41.17	---	74.00	32.83	500.0	100.0	V	316.0	-8.0
1546.500000	38.62	---	74.00	35.38	500.0	200.0	H	146.0	-6.7
1721.500000	---	31.23	54.00	22.77	500.0	100.0	H	43.0	-5.9
1727.500000	42.77	---	74.00	31.23	500.0	200.0	V	11.0	-5.8
2054.250000	---	32.66	54.00	21.34	500.0	100.0	V	326.0	-4.2
2056.000000	44.37	---	74.00	29.63	500.0	100.0	H	34.0	-4.2
2673.000000	---	36.78	54.00	17.22	500.0	100.0	V	107.0	-1.8
2901.500000	47.64	---	74.00	26.36	500.0	200.0	H	173.0	-1.0



Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3990.000000	43.91	---	74.00	30.09	500.0	200.0	V	294.0	-6.8
3993.750000	---	31.31	54.00	22.69	500.0	200.0	V	46.0	-6.8
4794.375000	46.09	---	74.00	27.91	500.0	100.0	V	174.0	-6.1
4794.375000	---	32.83	54.00	21.17	500.0	100.0	V	174.0	-6.1
5988.750000	46.06	---	74.00	27.94	500.0	100.0	V	292.0	-4.6
6613.125000	---	38.04	54.00	15.96	500.0	200.0	H	270.0	-3.4
9688.125000	44.35	---	74.00	29.65	500.0	200.0	V	281.0	-0.7
9780.000000	---	33.02	54.00	20.98	500.0	200.0	V	12.0	-0.5
13286.250000	44.58	---	74.00	29.42	500.0	100.0	V	352.0	2.3
13329.375000	---	33.62	54.00	20.38	500.0	100.0	H	220.0	2.3
16978.125000	---	38.22	54.00	15.78	500.0	200.0	H	0.0	8.8
17028.750000	50.01	---	74.00	23.99	500.0	100.0	V	233.0	8.8

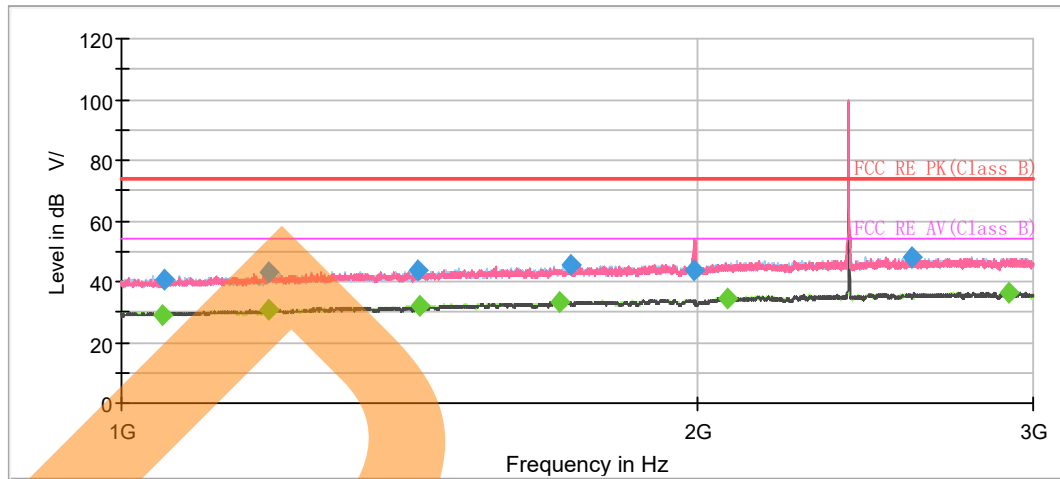
Right



Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
35.928750	13.87	40.00	26.13	121.0	H	71.0	18.6
51.262500	16.57	40.00	23.43	125.0	H	32.0	21.1
83.425000	10.95	40.00	29.05	109.0	V	2.0	15.7
118.080000	12.60	43.50	30.90	208.0	V	126.0	17.5
174.003750	16.39	43.50	27.11	125.0	H	0.0	20.2
266.711250	15.78	46.00	30.22	125.0	H	118.0	20.2

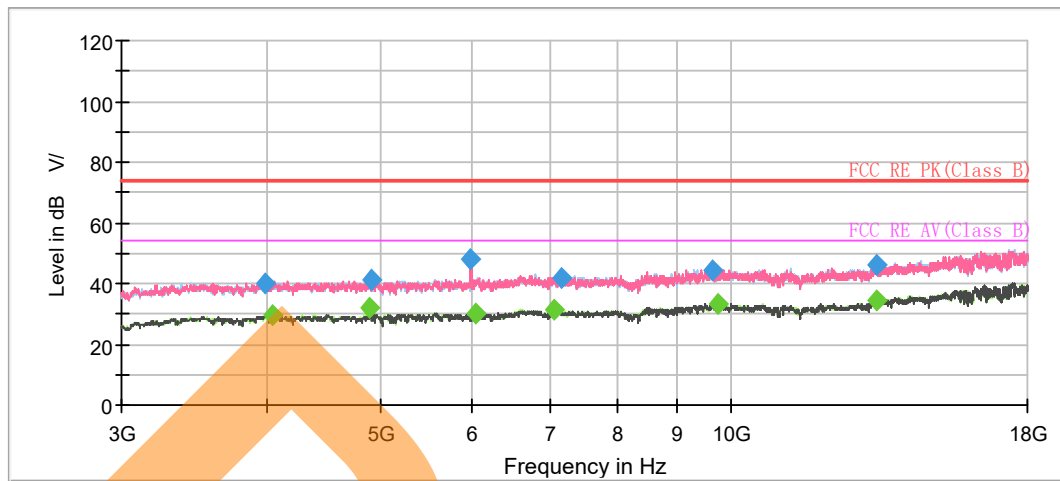
DH5-Channel 0



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

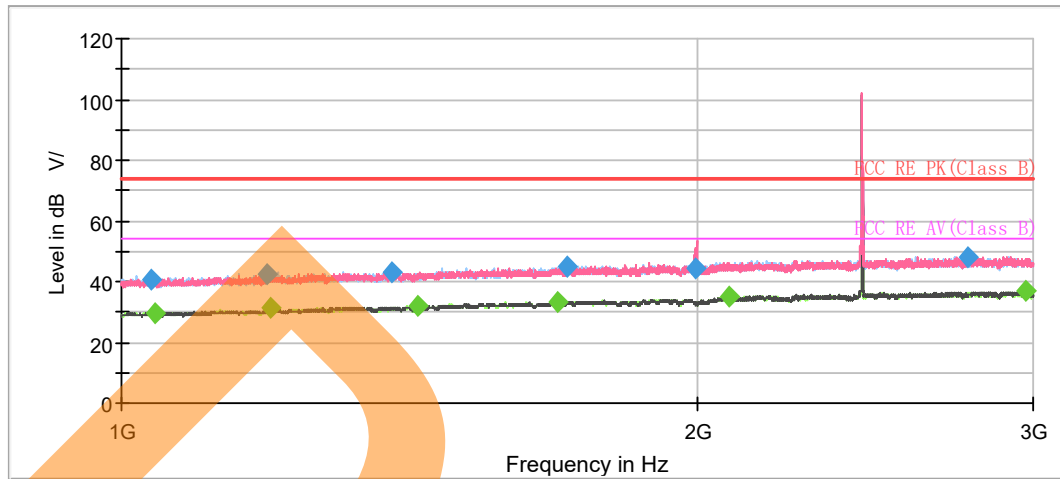
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1050.000000	---	28.82	54.00	25.18	500.0	100.0	H	356.0	-10.5
1053.750000	40.52	---	74.00	33.48	500.0	100.0	V	233.0	-10.5
1195.250000	42.86	---	74.00	31.14	500.0	100.0	H	167.0	-8.9
1195.500000	---	30.76	54.00	23.24	500.0	200.0	H	130.0	-8.9
1429.500000	43.73	---	74.00	30.27	500.0	100.0	H	326.0	-7.4
1434.000000	---	32.09	54.00	21.91	500.0	200.0	V	186.0	-7.4
1695.750000	---	33.30	54.00	20.70	500.0	100.0	H	295.0	-6.0
1718.250000	45.34	---	74.00	28.66	500.0	100.0	V	34.0	-5.9
1993.750000	43.67	---	74.00	30.33	500.0	200.0	H	276.0	-4.6
2077.250000	---	34.71	54.00	19.29	500.0	100.0	H	295.0	-3.9
2592.750000	48.07	---	74.00	25.93	500.0	100.0	V	255.0	-2.0
2913.000000	---	36.57	54.00	17.43	500.0	200.0	H	24.0	-1.0



Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3982.500000	40.27	---	74.00	33.73	500.0	200.0	H	166.0	-6.8
4036.875000	---	29.49	54.00	24.51	500.0	200.0	H	54.0	-6.7
4903.125000	---	31.89	54.00	22.11	500.0	100.0	H	305.0	-5.4
4908.750000	41.20	---	74.00	32.80	500.0	200.0	V	256.0	-5.4
5977.500000	47.98	---	74.00	26.02	500.0	100.0	V	356.0	-4.6
6050.625000	---	30.14	54.00	23.86	500.0	100.0	H	356.0	-4.1
7059.375000	---	31.30	54.00	22.70	500.0	100.0	V	260.0	-3.1
7149.375000	41.71	---	74.00	32.29	500.0	200.0	V	142.0	-2.9
9650.625000	44.48	---	74.00	29.52	500.0	100.0	H	254.0	-0.5
9770.625000	---	33.23	54.00	20.77	500.0	200.0	V	53.0	-0.5
13335.000000	---	34.20	54.00	19.80	500.0	200.0	H	226.0	2.3
13340.625000	46.06	---	74.00	27.94	500.0	100.0	V	235.0	2.3

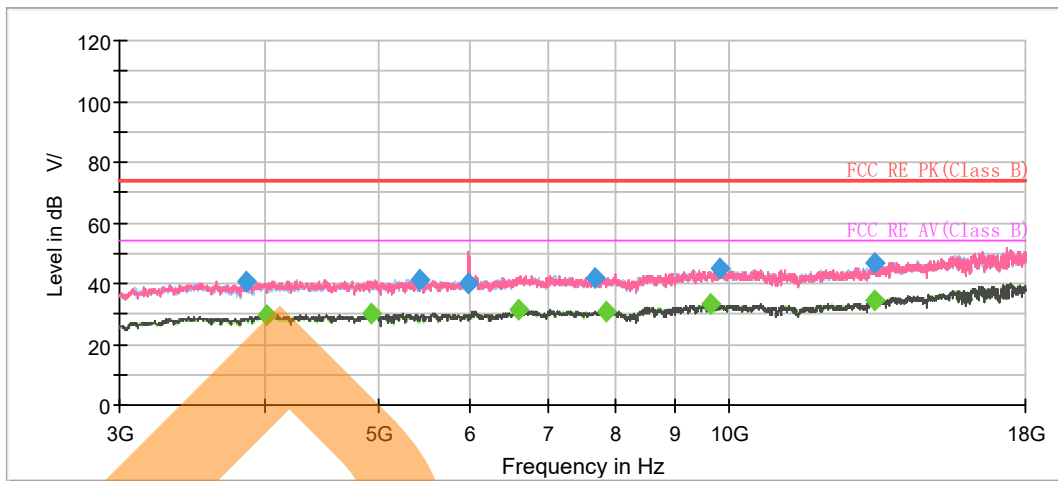
DH5-Channel 39



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

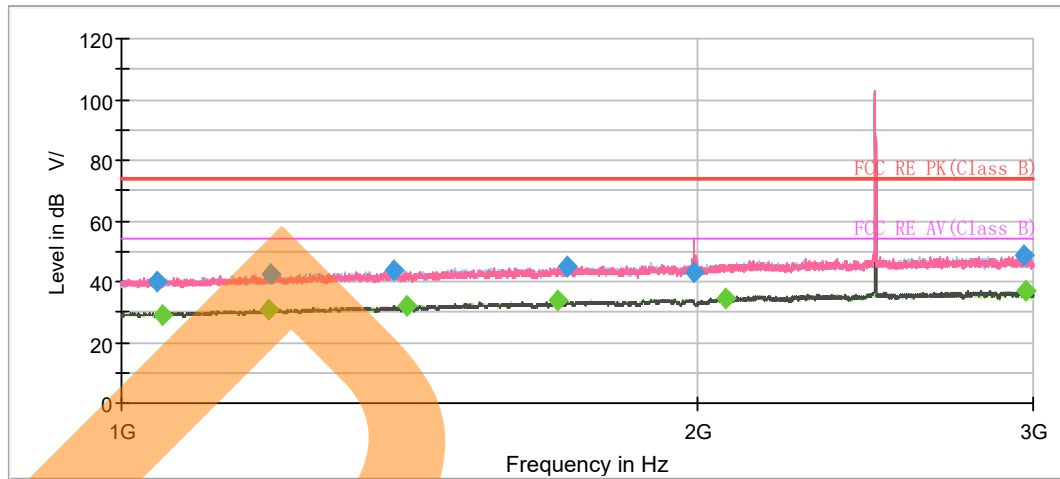
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1037.750000	40.63	---	74.00	33.37	500.0	100.0	H	82.0	-10.5
1041.500000	---	29.50	54.00	24.50	500.0	100.0	V	4.0	-10.5
1190.250000	42.41	---	74.00	31.59	500.0	100.0	H	82.0	-9.0
1196.500000	---	31.18	54.00	22.82	500.0	200.0	V	291.0	-8.9
1385.250000	43.19	---	74.00	30.81	500.0	200.0	V	356.0	-7.7
1429.250000	---	31.88	54.00	22.12	500.0	200.0	H	173.0	-7.4
1690.250000	---	33.43	54.00	20.57	500.0	200.0	V	315.0	-6.0
1711.750000	44.63	---	74.00	29.37	500.0	200.0	H	180.0	-5.9
1996.750000	44.22	---	74.00	29.78	500.0	100.0	V	57.0	-4.6
2078.000000	---	34.83	54.00	19.17	500.0	100.0	H	123.0	-3.9
2770.250000	48.29	---	74.00	25.71	500.0	200.0	V	315.0	-1.4
2973.000000	---	36.67	54.00	17.33	500.0	200.0	V	0.0	-0.7



Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3855.000000	40.89	---	74.00	33.11	500.0	100.0	V	80.0	-7.4
4008.750000	---	29.37	54.00	24.63	500.0	200.0	V	70.0	-6.8
4938.750000	---	30.25	54.00	23.75	500.0	200.0	H	292.0	-5.4
5422.500000	41.47	---	74.00	32.53	500.0	200.0	H	52.0	-4.9
5977.500000	40.15	---	74.00	33.85	500.0	100.0	V	0.0	-4.6
6603.750000	---	31.39	54.00	22.61	500.0	100.0	H	25.0	-3.3
7666.875000	41.81	---	74.00	32.19	500.0	100.0	V	301.0	-2.6
7843.125000	---	30.60	54.00	23.40	500.0	200.0	H	316.0	-2.4
9658.125000	---	33.30	54.00	20.70	500.0	200.0	V	163.0	-0.6
9826.875000	44.90	---	74.00	29.10	500.0	100.0	H	286.0	-0.4
13333.125000	---	34.34	54.00	19.66	500.0	200.0	V	357.0	2.3
13333.125000	46.69	---	74.00	27.31	500.0	100.0	H	277.0	2.3

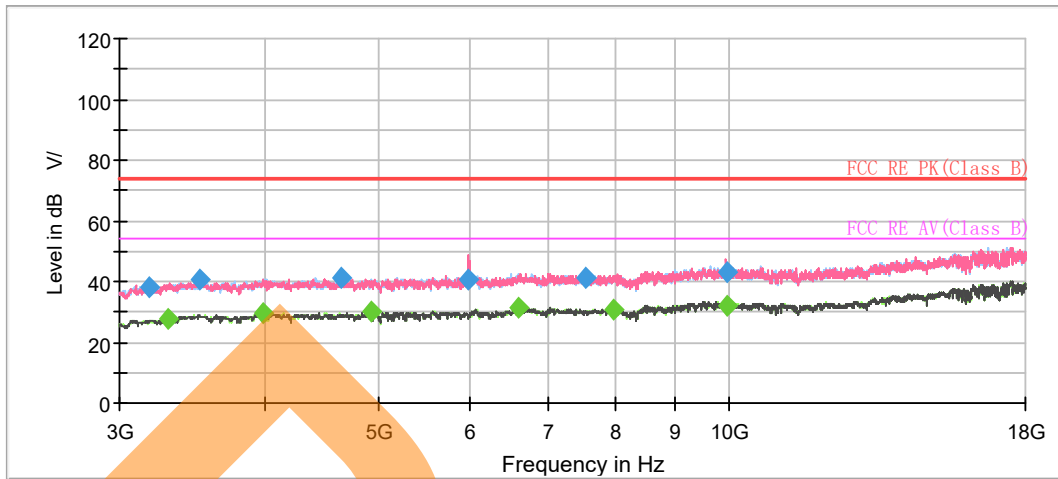
DH5-Channel 78



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1043.000000	39.92	---	74.00	34.08	500.0	100.0	H	262.0	-10.5
1050.500000	---	28.85	54.00	25.15	500.0	100.0	H	339.0	-10.5
1195.250000	---	30.87	54.00	23.13	500.0	100.0	H	164.0	-8.9
1195.750000	42.49	---	74.00	31.51	500.0	100.0	H	112.0	-8.9
1387.750000	43.83	---	74.00	30.17	500.0	200.0	V	205.0	-7.7
1411.500000	---	32.01	54.00	21.99	500.0	200.0	V	358.0	-7.5
1690.000000	---	33.97	54.00	20.03	500.0	200.0	V	0.0	-6.0
1709.000000	44.66	---	74.00	29.34	500.0	100.0	V	228.0	-5.9
1993.250000	43.24	---	74.00	30.76	500.0	100.0	H	141.0	-4.6
2071.250000	---	34.76	54.00	19.24	500.0	200.0	V	0.0	-4.0
2969.250000	48.61	---	74.00	25.39	500.0	200.0	V	335.0	-0.7
2970.250000	---	36.83	54.00	17.17	500.0	200.0	V	350.0	-0.7

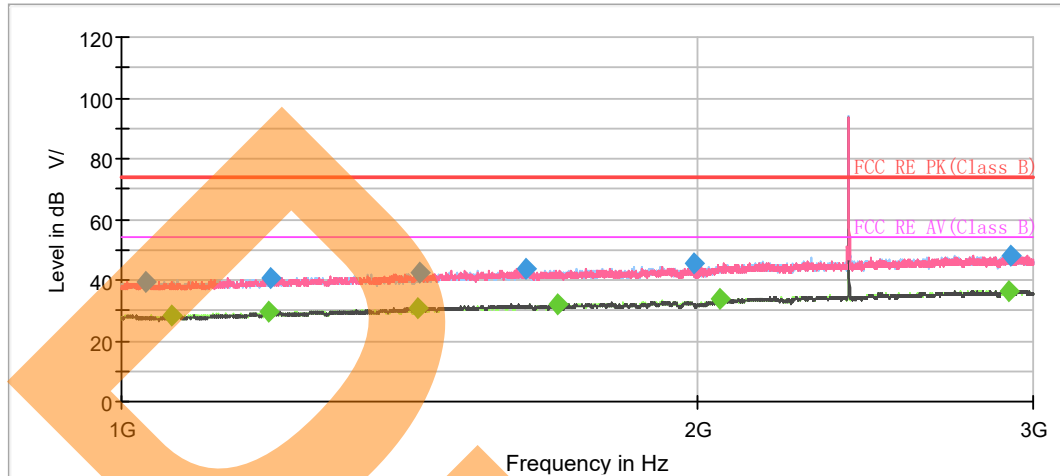


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3183.750000	38.26	---	74.00	35.74	500.0	200.0	V	216.0	-10.0
3300.000000	---	27.75	54.00	26.25	500.0	200.0	V	112.0	-9.1
3515.625000	40.57	---	74.00	33.43	500.0	200.0	H	48.0	-8.2
3978.750000	---	29.47	54.00	24.53	500.0	100.0	V	2.0	-6.9
4651.875000	41.39	---	74.00	32.61	500.0	100.0	H	131.0	-5.8
4931.250000	---	30.08	54.00	23.92	500.0	200.0	H	354.0	-5.4
5985.000000	40.76	---	74.00	33.24	500.0	100.0	V	187.0	-4.6
6613.125000	---	31.32	54.00	22.68	500.0	100.0	H	332.0	-3.4
7546.875000	41.08	---	74.00	32.92	500.0	100.0	V	128.0	-2.9
7978.125000	---	30.57	54.00	23.43	500.0	200.0	H	31.0	-2.5
9961.875000	---	31.99	54.00	22.01	500.0	200.0	H	6.0	-1.0
9984.375000	42.78	---	74.00	31.22	500.0	100.0	H	83.0	-1.0

The Radiates Emission was performed in all EDR mode (2DH5 and 3DH5), 3DH5 was selected as the worse condition. The test data of the worst-case condition was recorded in this report.

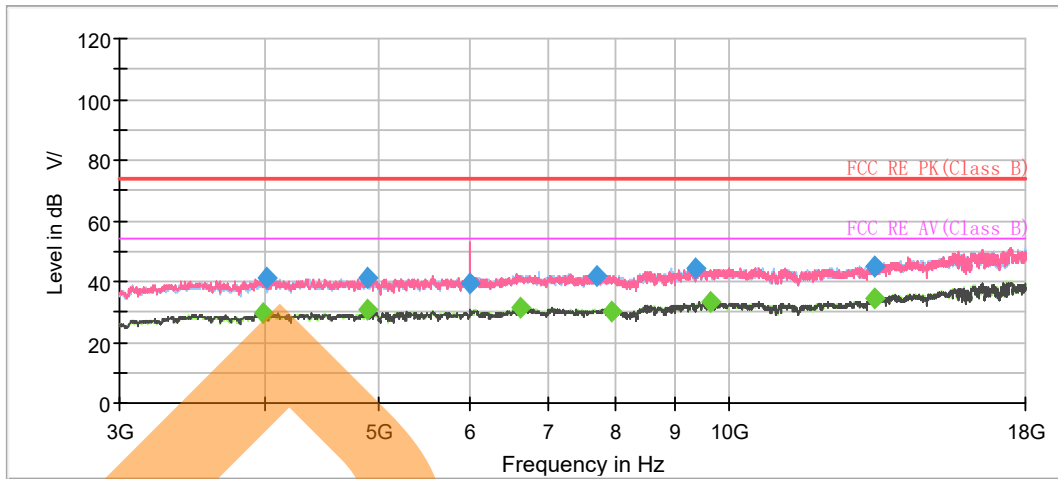
3DH5-Channel 0



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

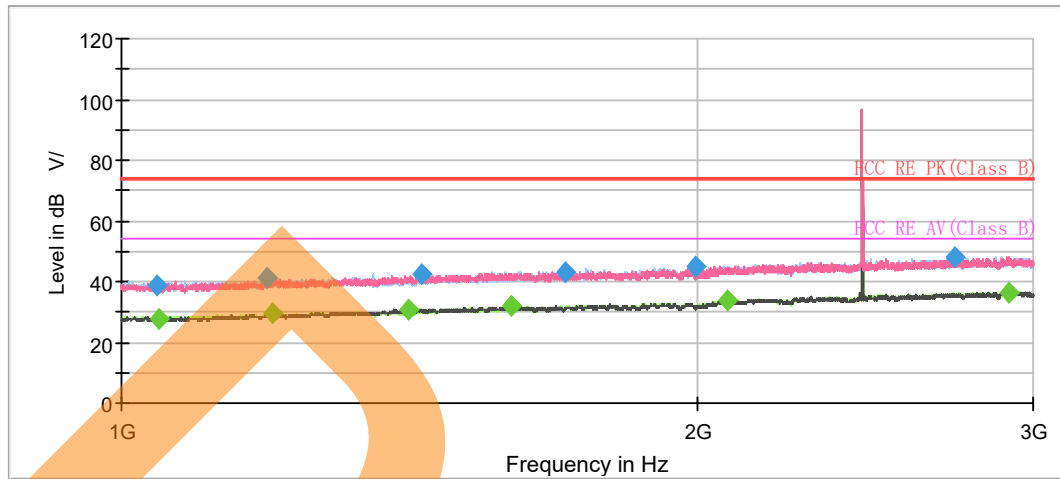
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1030.500000	39.53	---	74.00	34.47	500.0	100.0	V	109.0	-10.6
1061.750000	---	28.22	54.00	25.78	500.0	100.0	V	84.0	-10.4
1194.500000	---	29.32	54.00	24.68	500.0	100.0	V	10.0	-8.9
1197.250000	40.90	---	74.00	33.10	500.0	200.0	H	252.0	-8.9
1430.500000	---	30.77	54.00	23.23	500.0	100.0	V	159.0	-7.4
1434.000000	42.44	---	74.00	31.56	500.0	200.0	V	0.0	-7.4
1629.750000	43.76	---	74.00	30.24	500.0	200.0	V	203.0	-6.2
1693.000000	---	32.01	54.00	21.99	500.0	200.0	V	54.0	-6.0
1991.000000	45.61	---	74.00	28.39	500.0	200.0	V	60.0	-4.6
2057.750000	---	33.68	54.00	20.33	500.0	200.0	H	236.0	-4.1
2912.000000	---	36.51	54.00	17.49	500.0	200.0	H	112.0	-1.0
2922.250000	48.18	---	74.00	25.82	500.0	200.0	V	195.0	-1.0



Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3978.750000	---	29.36	54.00	24.64	500.0	200.0	V	320.0	-6.9
4008.750000	41.26	---	74.00	32.74	500.0	100.0	V	11.0	-6.8
4899.375000	41.05	---	74.00	32.95	500.0	100.0	V	57.0	-5.5
4903.125000	---	30.68	54.00	23.32	500.0	200.0	H	356.0	-5.4
5998.125000	39.45	---	74.00	34.55	500.0	200.0	V	192.0	-4.5
6628.125000	---	31.36	54.00	22.64	500.0	100.0	H	218.0	-3.4
7715.625000	41.86	---	74.00	32.14	500.0	100.0	H	0.0	-2.5
7942.500000	---	30.00	54.00	24.00	500.0	200.0	H	107.0	-2.4
9390.000000	44.54	---	74.00	29.46	500.0	200.0	H	261.0	-0.9
9663.750000	---	33.16	54.00	20.84	500.0	200.0	V	181.0	-0.6
13344.375000	---	34.41	54.00	19.59	500.0	100.0	V	246.0	2.3
13350.000000	45.06	---	74.00	28.94	500.0	100.0	V	114.0	2.4

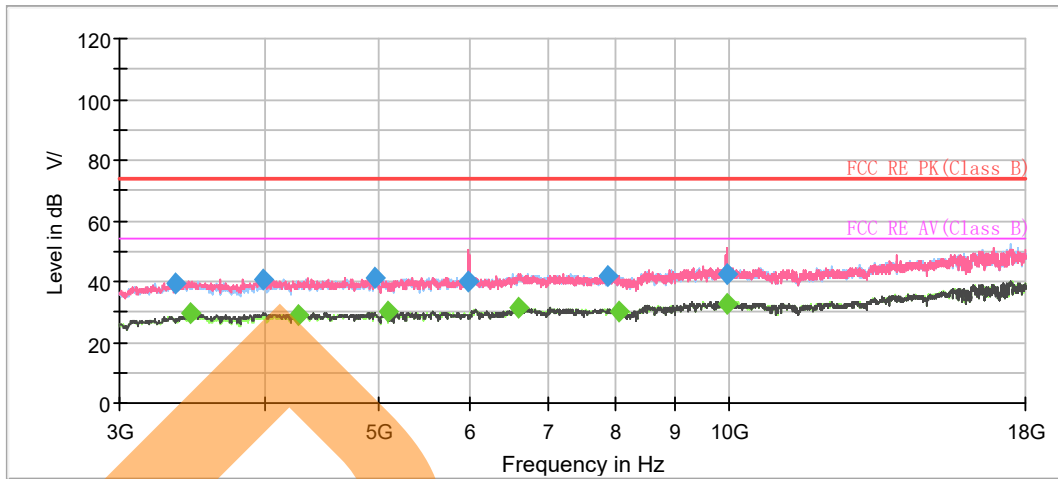
3DH5-Channel 39



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

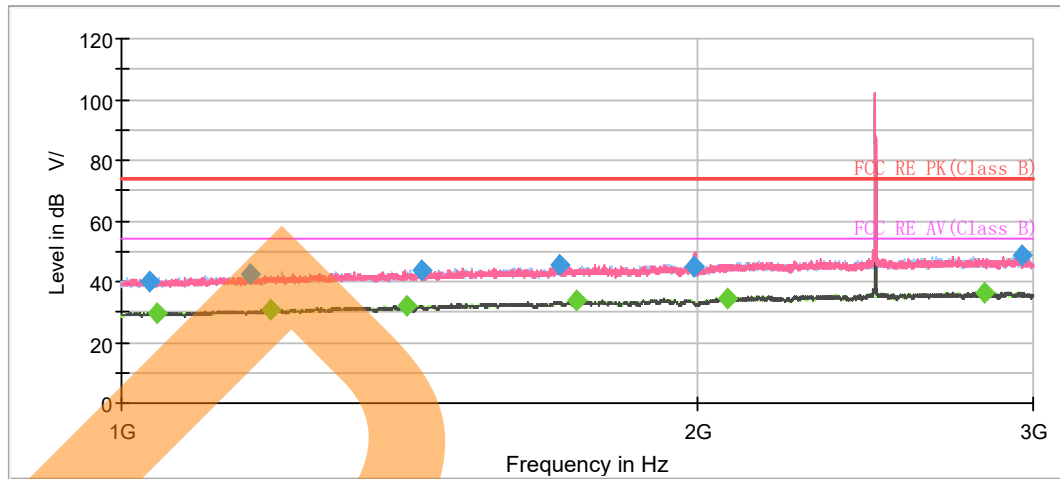
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1044.250000	38.94	---	74.00	35.06	500.0	100.0	H	177.0	-10.5
1047.000000	---	27.62	54.00	26.38	500.0	200.0	H	45.0	-10.5
1191.500000	41.26	---	74.00	32.74	500.0	200.0	H	250.0	-9.0
1198.500000	---	29.41	54.00	24.59	500.0	100.0	H	268.0	-8.8
1413.250000	---	30.82	54.00	23.18	500.0	100.0	V	49.0	-7.5
1435.750000	42.22	---	74.00	31.78	500.0	100.0	V	24.0	-7.4
1599.000000	---	32.01	54.00	21.99	500.0	200.0	V	63.0	-6.3
1708.750000	43.33	---	74.00	30.67	500.0	100.0	H	235.0	-5.9
1995.750000	45.16	---	74.00	28.84	500.0	100.0	V	106.0	-4.6
2075.750000	---	33.65	54.00	20.35	500.0	100.0	V	156.0	-4.0
2727.000000	48.14	---	74.00	25.86	500.0	100.0	H	227.0	-1.5
2914.500000	---	36.61	54.00	17.39	500.0	100.0	V	198.0	-1.0



Radiates Emission from 3GHz to 18GHz

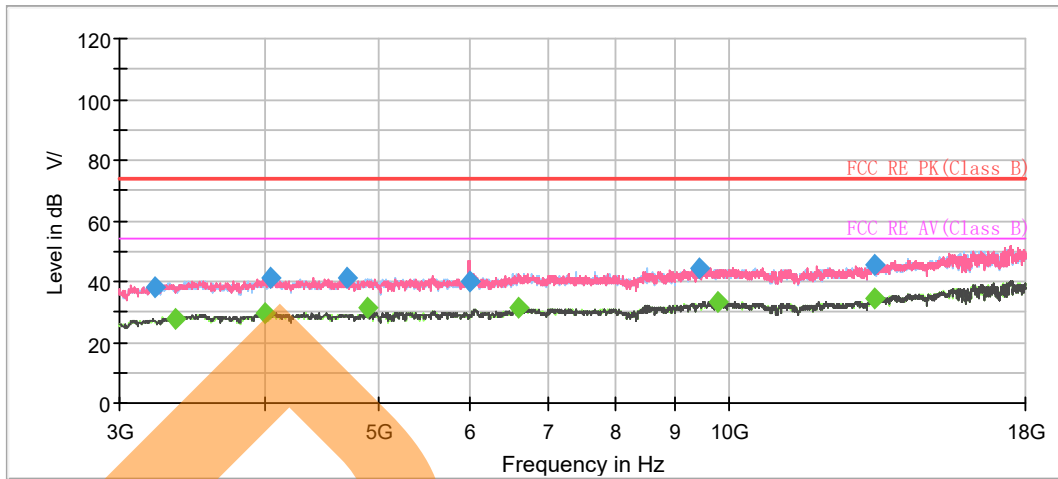
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3354.375000	39.18	---	74.00	34.82	500.0	100.0	H	327.0	-9.1
3457.500000	---	29.34	54.00	24.66	500.0	200.0	V	120.0	-8.4
3988.125000	40.72	---	74.00	33.28	500.0	200.0	V	139.0	-6.8
4273.125000	---	28.69	54.00	25.31	500.0	100.0	V	60.0	-6.5
4972.500000	41.50	---	74.00	32.50	500.0	200.0	V	14.0	-5.5
5105.625000	---	29.88	54.00	24.12	500.0	100.0	H	185.0	-4.9
5968.125000	39.92	---	74.00	34.08	500.0	200.0	H	249.0	-4.7
6601.875000	---	31.52	54.00	22.48	500.0	100.0	H	103.0	-3.3
7884.375000	41.68	---	74.00	32.32	500.0	200.0	H	121.0	-2.3
8051.250000	---	30.30	54.00	23.70	500.0	100.0	H	203.0	-2.4
9988.125000	---	32.46	54.00	21.55	500.0	100.0	H	0.0	-1.0
9988.125000	42.22	---	74.00	31.78	500.0	100.0	H	0.0	-1.0

3DH5-Channel 78



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1033.750000	40.06	---	74.00	33.94	500.0	100.0	V	250.0	-10.5
1043.000000	---	29.24	54.00	24.76	500.0	200.0	H	144.0	-10.5
1167.000000	42.26	---	74.00	31.74	500.0	200.0	H	72.0	-9.5
1198.000000	---	30.74	54.00	23.26	500.0	200.0	H	0.0	-8.8
1408.750000	---	31.97	54.00	22.03	500.0	100.0	V	0.0	-7.5
1436.250000	43.66	---	74.00	30.34	500.0	200.0	H	28.0	-7.3
1694.750000	45.56	---	74.00	28.44	500.0	200.0	H	135.0	-6.0
1730.000000	---	33.63	54.00	20.37	500.0	200.0	H	72.0	-5.8
1994.750000	44.72	---	74.00	29.28	500.0	100.0	H	206.0	-4.6
2076.250000	---	34.74	54.00	19.26	500.0	100.0	V	69.0	-4.0
2828.000000	---	36.43	54.00	17.57	500.0	200.0	V	249.0	-1.1
2960.500000	48.52	---	74.00	25.48	500.0	200.0	V	0.0	-0.8



Radiates Emission from 3GHz to 18GHz

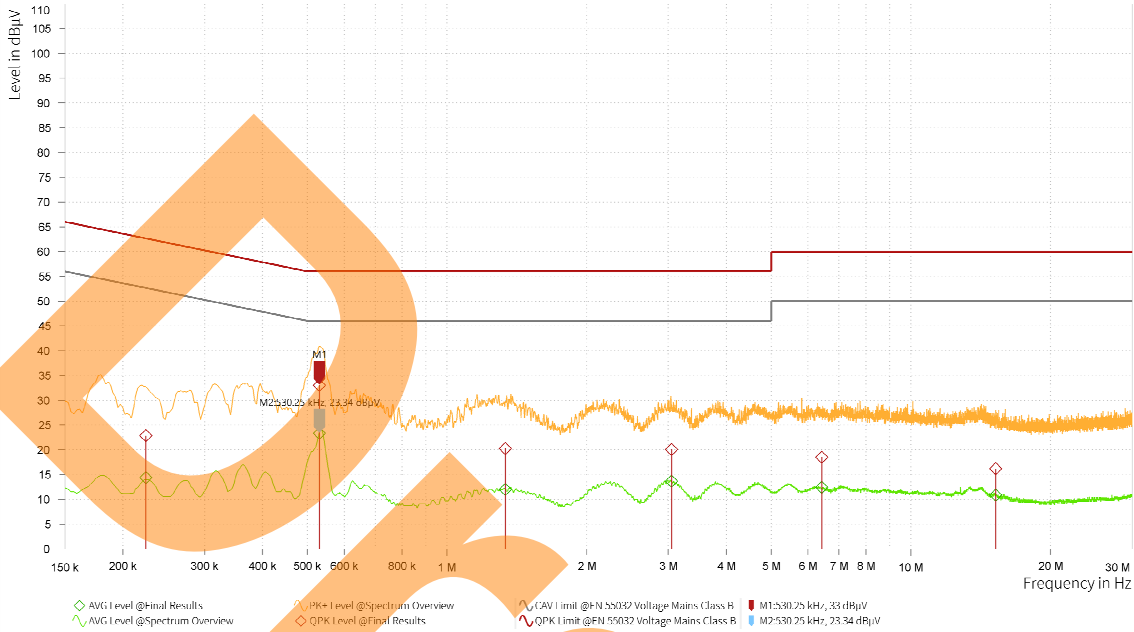
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3221.250000	38.39	---	74.00	35.61	500.0	200.0	V	198.0	-9.8
3354.375000	---	27.67	54.00	26.33	500.0	100.0	V	256.0	-9.1
4006.875000	---	29.50	54.00	24.50	500.0	200.0	V	51.0	-6.8
4036.875000	41.06	---	74.00	32.94	500.0	100.0	V	240.0	-6.7
4704.375000	41.32	---	74.00	32.68	500.0	100.0	V	63.0	-5.7
4899.375000	---	31.37	54.00	22.63	500.0	200.0	H	318.0	-5.5
6003.750000	40.06	---	74.00	33.94	500.0	100.0	V	131.0	-4.5
6598.125000	---	31.29	54.00	22.71	500.0	200.0	V	223.0	-3.3
9436.875000	44.53	---	74.00	29.47	500.0	200.0	H	142.0	-0.5
9800.625000	---	33.34	54.00	20.66	500.0	200.0	V	122.0	-0.4
13333.125000	45.57	---	74.00	28.43	500.0	100.0	V	264.0	2.3
13335.000000	---	34.37	54.00	19.63	500.0	100.0	H	0.0	2.3

2. Conducted Emission

2.1. Bluetooth

During the test, the Conducted Emission was performed in all modes with all channels. The test data of the worst-case condition was recorded in this report.

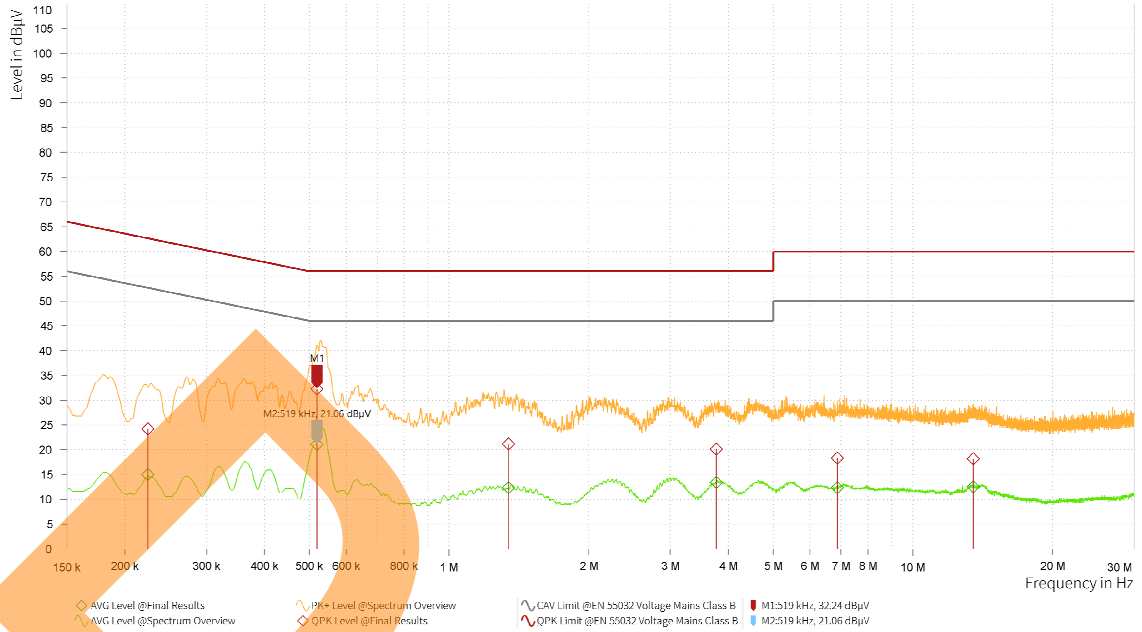
Left



Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	AVG Level [dBμV]	AVG: CAV Limit [dBμV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.224	22.84	62.66	39.82	14.37	52.66	38.29	21.00	L1	9.000	1.000
0.530	33.00	56.00	23.00	23.34	46.00	22.66	20.75	L1	9.000	1.000
1.336	20.26	56.00	35.74	11.98	46.00	34.02	19.93	L1	9.000	1.000
3.048	20.07	56.00	35.93	13.65	46.00	32.35	19.48	L1	9.000	1.000
6.428	18.52	60.00	41.48	12.41	50.00	37.59	19.40	L1	9.000	1.000
15.241	16.17	60.00	43.83	10.86	50.00	39.14	19.51	L1	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 kHz to 30 MHz

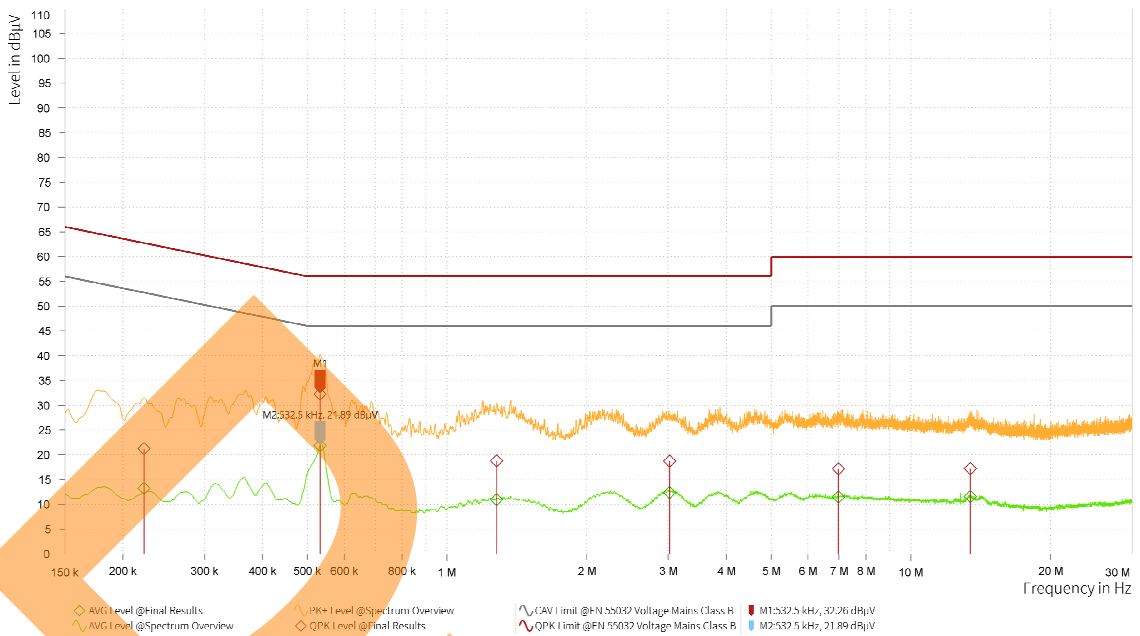


Frequency [MHz]	QPK Level [dBµV]	QPK Limit [dBµV]	QPK Margin [dB]	AVG Level [dBµV]	AVG: CAV Limit [dBµV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.224	24.21	62.66	38.45	14.97	52.66	37.69	21.01	N	9.000	1.000
0.519	32.24	56.00	23.76	21.06	46.00	24.94	20.77	N	9.000	1.000
1.343	21.13	56.00	34.87	12.34	46.00	33.66	19.94	N	9.000	1.000
3.770	20.11	56.00	35.89	13.35	46.00	32.65	19.45	N	9.000	1.000
6.875	18.30	60.00	41.70	12.36	50.00	37.64	19.41	N	9.000	1.000
13.504	18.16	60.00	41.84	12.53	50.00	37.47	19.49	N	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 kHz to 30 MHz

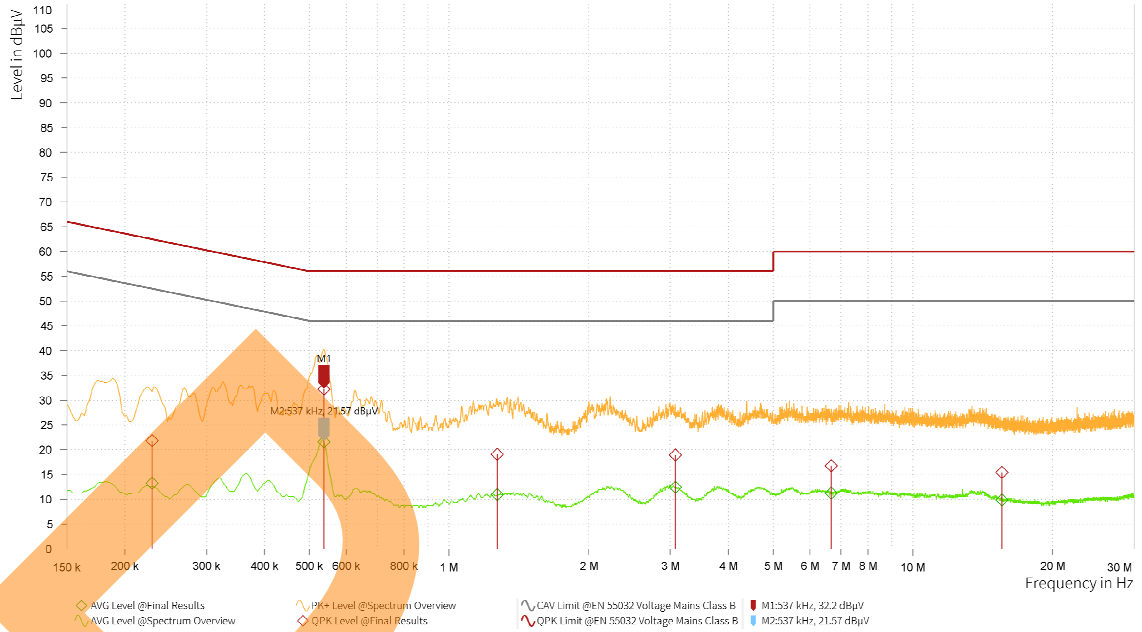
Right



Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	AVG Level [dBμV]	AVG: CAV Limit [dBμV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.222	21.25	62.74	41.50	13.25	52.74	39.49	21.00	L1	9.000	1.000
0.533	32.26	56.00	23.74	21.89	46.00	24.11	20.74	L1	9.000	1.000
1.280	18.78	56.00	37.22	10.95	46.00	35.05	19.96	L1	9.000	1.000
3.021	18.72	56.00	37.28	12.39	46.00	33.61	19.48	L1	9.000	1.000
6.981	17.18	60.00	42.82	11.46	50.00	38.54	19.41	L1	9.000	1.000
13.432	17.21	60.00	42.79	11.56	50.00	38.44	19.46	L1	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 kHz to 30 MHz



Frequency [MHz]	QPK Level [dBµV]	QPK Limit [dBµV]	QPK Margin [dB]	AVG Level [dBµV]	AVG: CAV Limit [dBµV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.229	21.81	62.49	40.69	13.23	52.49	39.27	21.01	N	9.000	1.000
0.537	32.20	56.00	23.80	21.57	46.00	24.43	20.75	N	9.000	1.000
1.271	19.09	56.00	36.91	10.96	46.00	35.04	19.98	N	9.000	1.000
3.077	18.95	56.00	37.05	12.45	46.00	33.55	19.49	N	9.000	1.000
6.671	16.73	60.00	43.27	11.24	50.00	38.76	19.41	N	9.000	1.000
15.567	15.41	60.00	44.59	9.89	50.00	40.11	19.55	N	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 kHz to 30 MHz