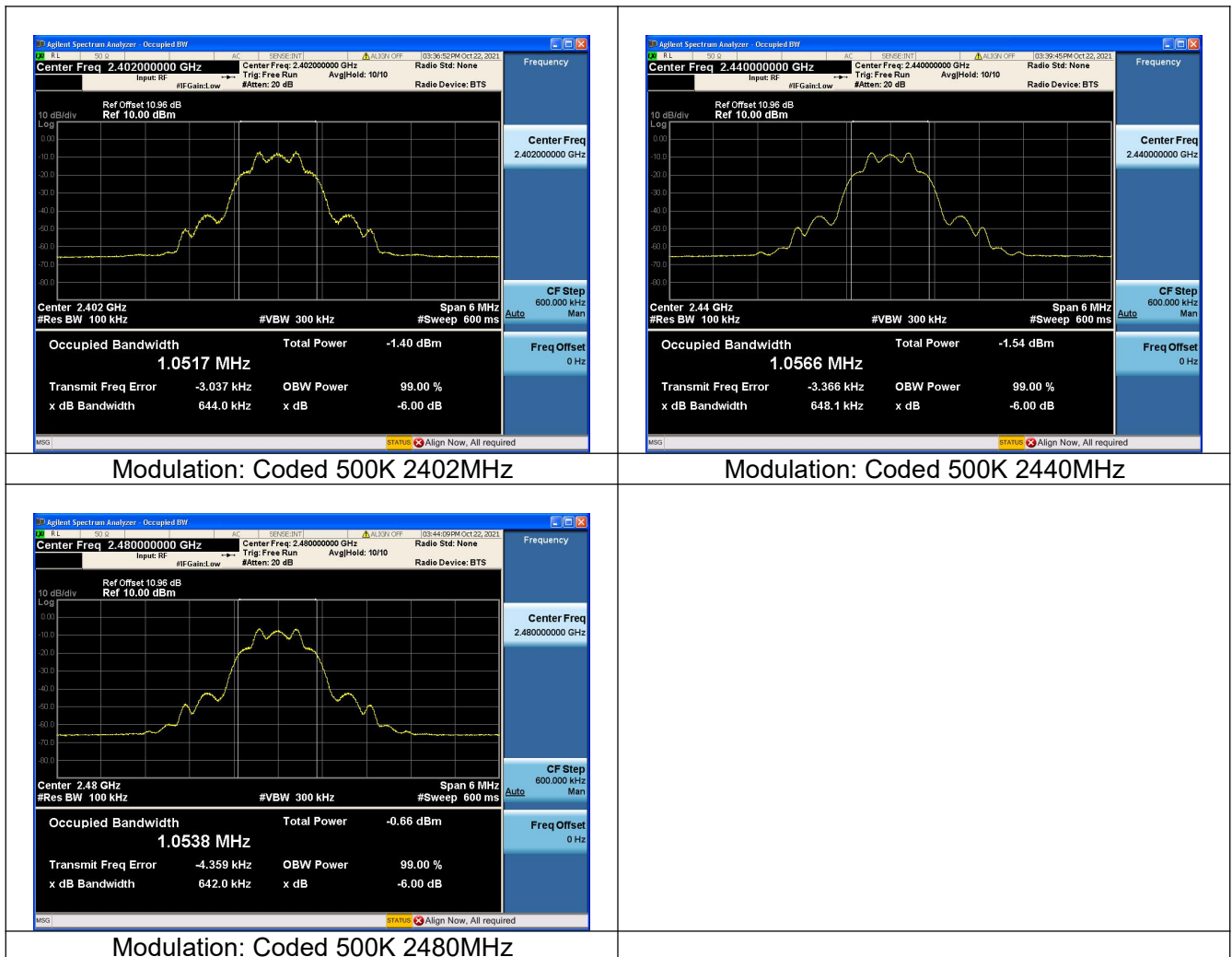


3 Occupied Bandwidth 6dB Bandwidth Modulation type:Coded 250K

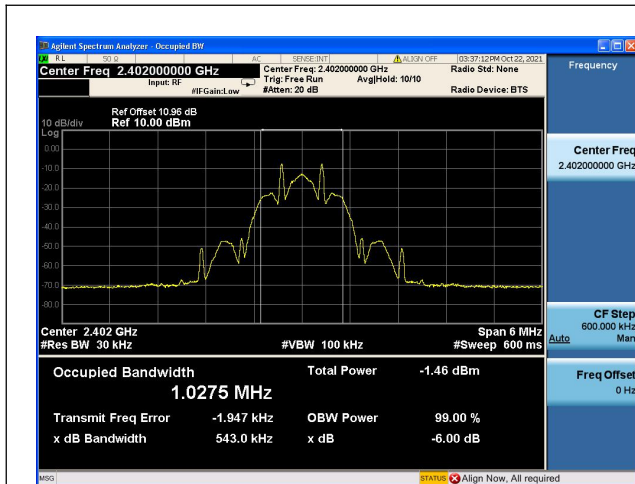
Carrier frequency (MHz)	6dB Bandwidth(kHz)
2402	644.0
2440	648.1
2480	642.0



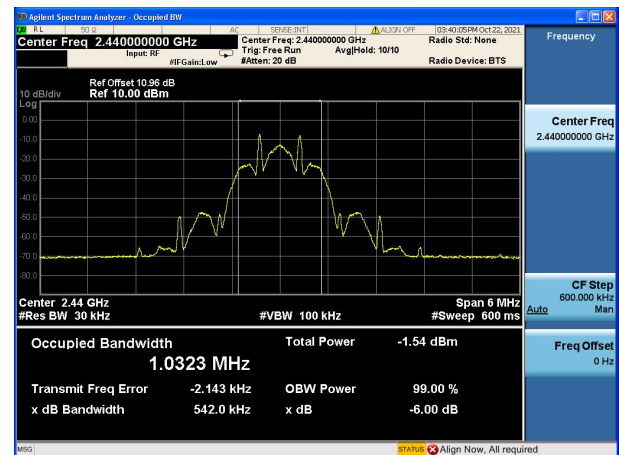
99% Bandwidth

Modulation type:Coded 500K

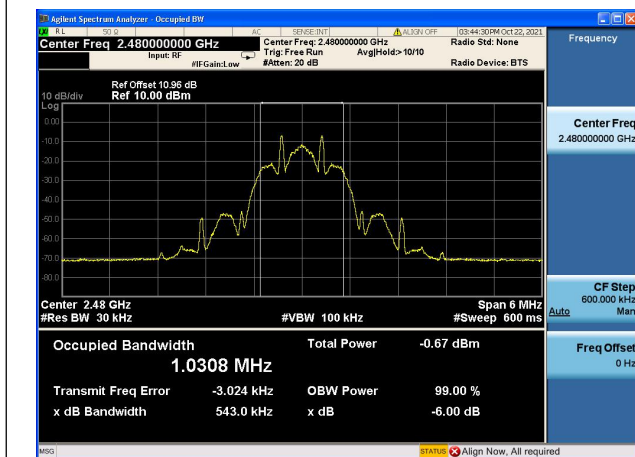
Carrier frequency (MHz)	99% Bandwidth(kHz)
2402	1027.5
2440	1032.3
2480	1030.8



Modulation: Coded 500K 2402MHz



Modulation: Coded 500K 2440MHz



Modulation: Coded 500K 2480MHz

4 Transmitter PowerSpectral Density

Modulation type:Coded 500K

Carrier frequency (MHz)	Channel No.	Power Density (dBm/3kHz)
2402	0	-6.7
2440	1	-6.8
2480	2	-6.0



Modulation: Coded 500K 2402MHz



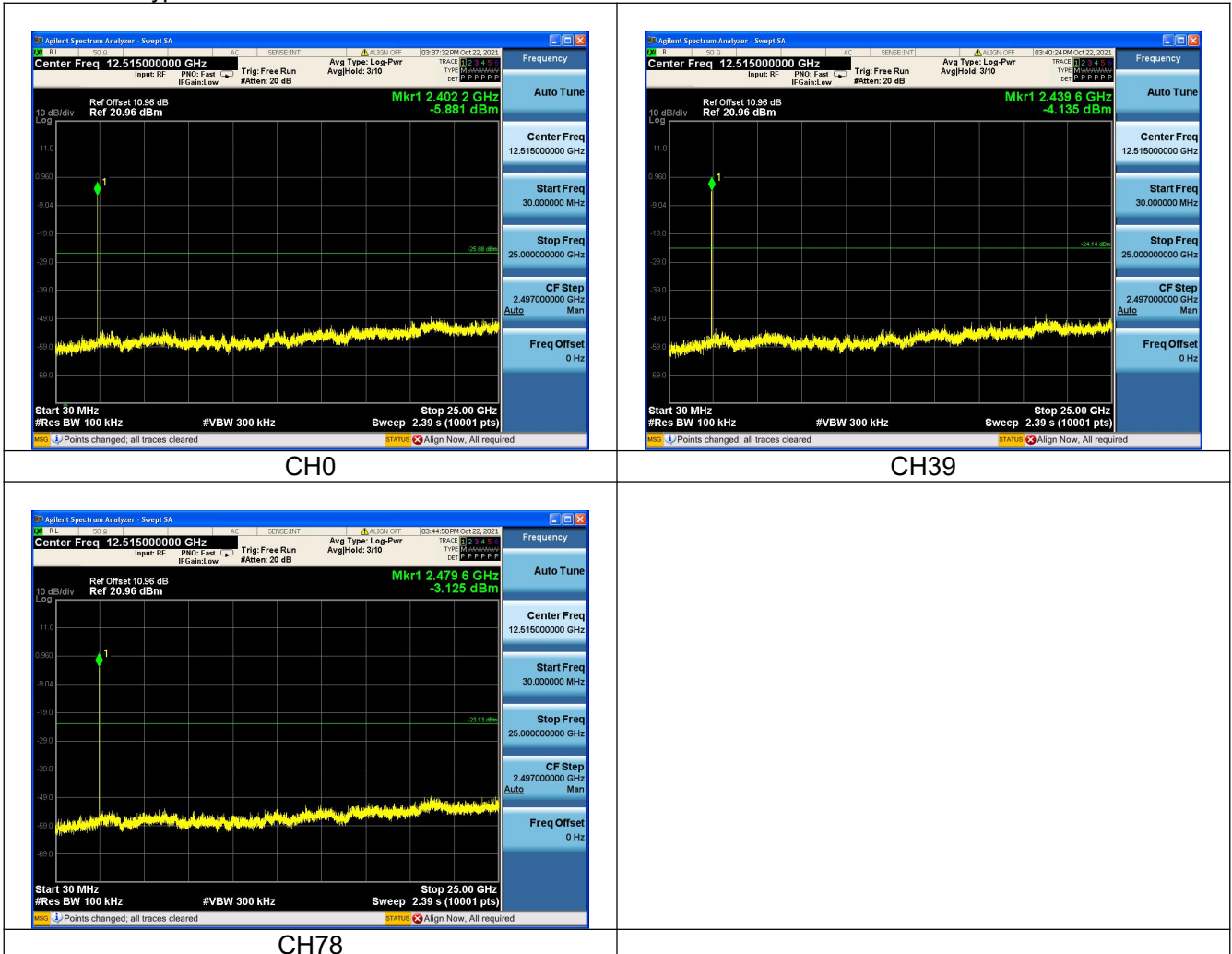
Modulation: Coded 500K 2440MHz



Modulation: Coded 500K 2480MHz

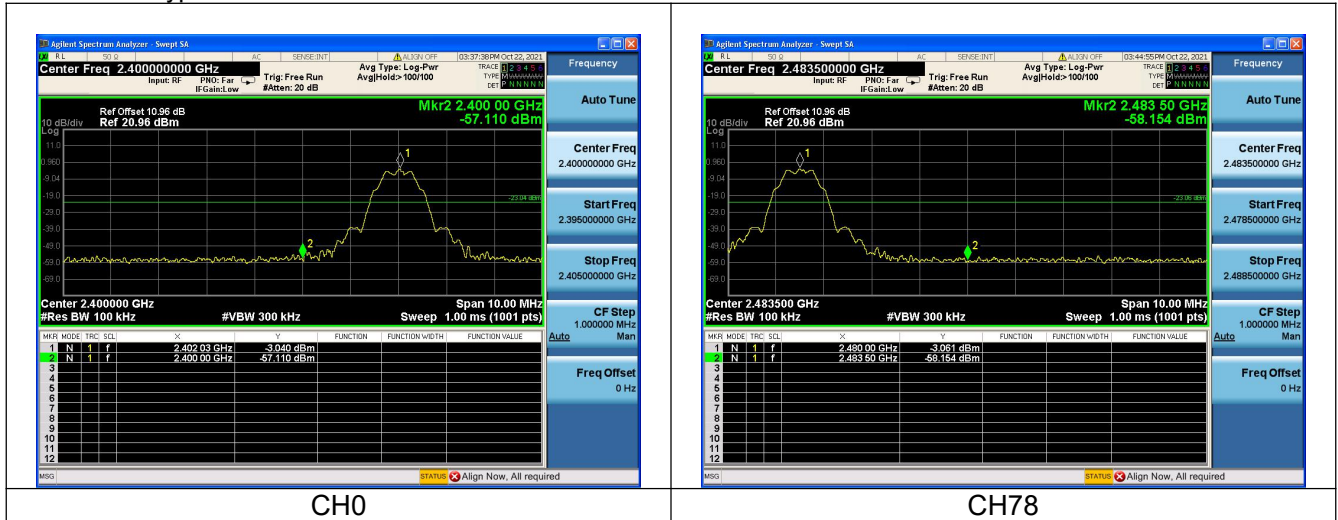
5 Conducted Out of band emission measurement

Modulation type:Coded 500K



6 Band Edge measurement

Modulation type:Coded 500K



APPENDIX B – TEST DATA OF RADIATED EMISSION

Radiated Emission Band Edge

The worst case attitude: The mobile lay down.

The measurement results are obtained as described below:

Measure Level = Reading Level + cable loss + antenna factor

Sample calculation: (102.78 dBuV/m) = (68.78 dBμV) + (8.90 dB) + (25.10 dB), the corresponding frequency is 2402MHz.

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2402	102.78	68.78	N/A	N/A	8.90	25.10

Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: GFSK (LE 1Mbps)

Polarity: Vertical

Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2402	91.98	57.98	N/A	N/A	8.90	25.10
2	2390	29.09	-4.91	-44.91	74.00	8.90	25.10

Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: GFSK (LE 1Mbps)

Polarity: Horizontal

Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2402	89.40	55.40	N/A	N/A	8.90	25.10
2	2390	28.18	-5.82	-45.82	74.00	8.90	25.10

Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: GFSK (LE 1Mbps)

Polarity: Vertical

Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2402	88.72	54.72	N/A	N/A	8.90	25.10
2	2390	22.52	-11.48	-31.48	54.00	8.90	25.10

Carrier frequency (MHz): 2402
Channel No.:0
Test Mode: GFSK (LE 1Mbps)
Polarity: Horizontal
Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2402	86.58	52.58	N/A	N/A	8.90	25.10
2	2390	21.53	-12.47	-32.47	54.00	8.90	25.10

Carrier frequency (MHz): 2480
Channel No.:39
Test Mode: GFSK (LE 1Mbps)
Polarity: Vertical
Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2480	92.07	58.07	N/A	N/A	8.90	25.10
2	2483.5	29.55	-4.45	-44.45	74.00	8.90	25.10

Carrier frequency (MHz): 2480
Channel No.:39
Test Mode: GFSK (LE 1Mbps)
Polarity: Horizontal
Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2480	89.76	55.76	N/A	N/A	8.90	25.10
2	2483.5	30.18	-3.82	-43.82	74.00	8.90	25.10

Carrier frequency (MHz): 2480
Channel No.:39
Test Mode: GFSK (LE 1Mbps)
Polarity: Vertical
Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2480	89.16	55.16	N/A	N/A	8.90	25.10
2	2483.5	23.98	-10.02	-30.02	54.00	8.90	25.10

Carrier frequency (MHz): 2480
Channel No.:39
Test Mode: GFSK (LE 1Mbps)
Polarity: Horizontal

Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2480	86.38	52.38	N/A	N/A	8.90	25.10
2	2483.5	24.89	-9.11	-29.11	54.00	8.90	25.10

Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: GFSK (LE 2Mbps)

Polarity: Vertical

Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2402	91.86	57.86	N/A	N/A	8.90	25.10
2	2390	29.89	-4.11	-44.11	74.00	8.90	25.10

Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: GFSK (LE 2Mbps)

Polarity: Horizontal

Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2402	89.43	55.43	N/A	N/A	8.90	25.10
2	2390	29.61	-4.39	-44.39	74.00	8.90	25.10

Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: GFSK (LE 2Mbps)

Polarity: Vertical

Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2402	89.15	55.15	N/A	N/A	8.90	25.10
2	2390	23.61	-10.39	-30.39	54.00	8.90	25.10

Carrier frequency (MHz): 2402

Channel No.:0

Test Mode: GFSK (LE 2Mbps)

Polarity: Horizontal

Detector: Average

No	Frequency (MHz)	Measure Level	Reading Level	Over Limit	Limit (dBuV/m)	cable loss	antenna factor
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		(dBuV/m)	(dBuV)	(dB)		(dB)	(dB)
1	2402	86.67	52.67	N/A	N/A	8.90	25.10
2	2390	23.87	-10.13	-30.13	54.00	8.90	25.10

Carrier frequency (MHz): 2480

Channel No.:39

Test Mode: GFSK (LE 2Mbps)

Polarity: Vertical

Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2480	91.53	57.53	N/A	N/A	8.90	25.10
2	2483.5	30.49	-3.51	-43.51	74.00	8.90	25.10

Carrier frequency (MHz): 2480

Channel No.:39

Test Mode: GFSK (LE 2Mbps)

Polarity: Horizontal

Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2480	89.36	55.36	N/A	N/A	8.90	25.10
2	2483.5	30.72	-3.28	-43.28	74.00	8.90	25.10

Carrier frequency (MHz): 2480

Channel No.:39

Test Mode: GFSK (LE 2Mbps)

Polarity: Vertical

Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2480	89.00	55.00	N/A	N/A	8.90	25.10
2	2483.5	22.33	-11.67	-31.67	54.00	8.90	25.10

Carrier frequency (MHz): 2480

Channel No.:39

Test Mode: GFSK (LE 2Mbps)

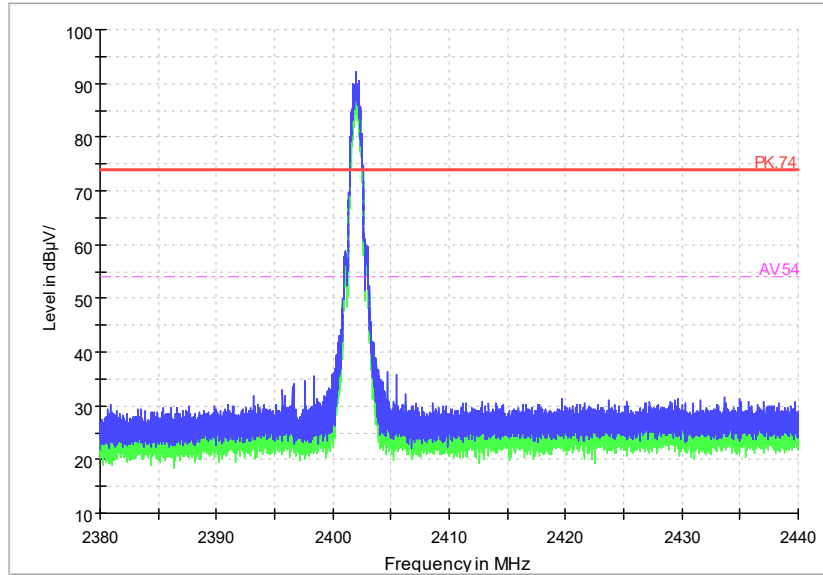
Polarity: Horizontal

Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB)
1	2480	86.18	52.18	N/A	N/A	8.90	25.10

2	2483.5	21.48	-12.52	-32.52	54.00	8.90	25.10
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03C_LJ_FCC_1-3-RBW100kHz



Sample Calculations

Determining Spurious Emissions Levels

A “reference path loss” is established and the A_{Rpl} is the attenuation of “reference path loss”, and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

The measurement results are obtained as described below:

Result= $P_{mea} + A_{Rpl}$

Sample calculation: (16.6 dB μ V/m) = (35.7 dB μ V) + (-19.1 dB/m), the corresponding frequency is 37.857MHz.

The worst case attitude: The mobile lay down.

For GFSK (LE 1Mbps)

Channel No.:0

Frequency (MHz)	Result (dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity	Limit (dB μ V/m)
37.857	16.6	-19.1	35.7	Vertical	40
47.945	19.89	-17.7	37.59	Vertical	40
57.936	15.62	-18.6	34.22	Vertical	40
80.925	18.53	-24.2	42.73	Vertical	40
96.639	19.76	-19.8	39.56	Vertical	43.5
613.2125	19.83	-8	27.83	Vertical	46

Channel No.:19

Frequency (MHz)	Result (dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity	Limit (dB μ V/m)
37.857	16.57	-19.1	35.67	Vertical	40
48.624	19.68	-17.6	37.28	Vertical	40
54.2985	14.41	-18.1	32.51	Vertical	40
81.41	17.98	-24	41.98	Vertical	40
96.5905	20.25	-19.8	40.05	Vertical	43.5
615.9285	19.68	-8	27.68	Vertical	46

Channel No.:39

Frequency (MHz)	Result (dB μ V/m)	ARpl (dB)	Pmea (dB μ V/m)	Polarity	Limit (dB μ V/m)
39.9425	17.98	-18.5	36.48	Vertical	40
48.1875	19.24	-17.6	36.84	Vertical	40
57.645	15.57	-18.5	34.07	Vertical	40
81.216	18.26	-24.1	42.36	Vertical	40
96.7845	19.9	-19.8	39.7	Vertical	43.5
614.3765	19.15	-8	27.15	Vertical	46

For GFSK (LE 2Mbps)

Channel No.:0

Frequency	Result	ARpl	Pmea	Polarity	Limit
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(MHz)	(dBuV/m)	(dB)	(dBuV/m)		(dBuV/m)
39.7	17.41	-18.6	36.01	Vertical	40
48.3815	19.62	-17.6	37.22	Vertical	40
58.3725	15.49	-18.6	34.09	Vertical	40
81.5555	17.75	-24	41.75	Vertical	40
97.027	19.33	-19.7	39.03	Vertical	43.5
614.91	19.21	-8	27.21	Vertical	46

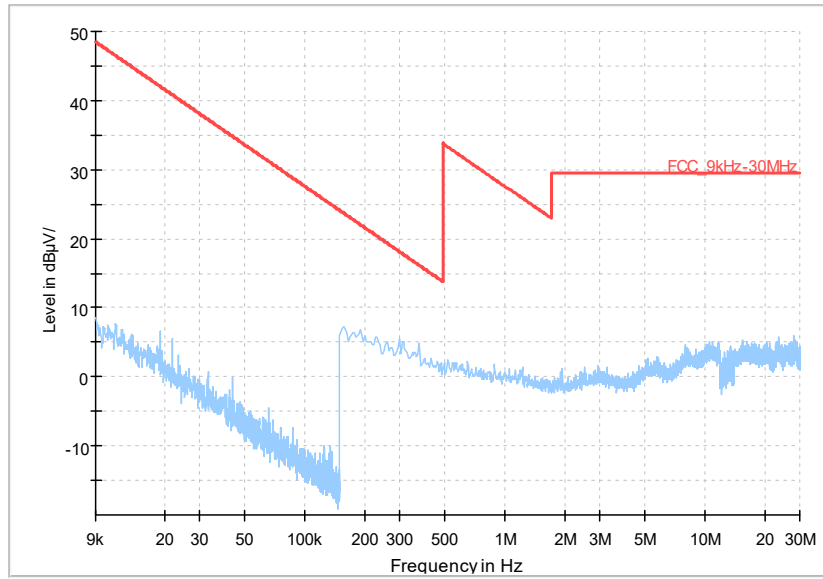
Channel No.:19

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)
35.1895	15.56	-19.9	35.46	Vertical	40
40.864	17.31	-18.4	35.71	Vertical	40
59.197	14.82	-18.7	33.52	Vertical	40
96.057	21.13	-19.9	41.03	Vertical	43.5
96.8815	19.84	-19.8	39.64	Vertical	43.5
613.5035	19.56	-8	27.56	Vertical	46

Channel No.:39

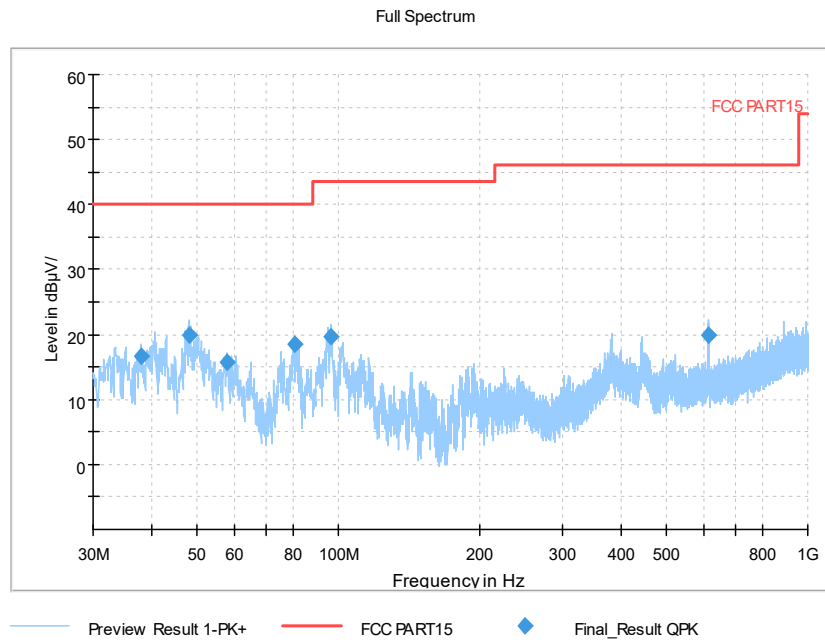
Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)
35.1895	15.38	-19.9	35.28	Vertical	40
48.139	18.81	-17.6	36.41	Vertical	40
57.9845	15.11	-18.6	33.71	Vertical	40
81.022	18.5	-24.1	42.6	Vertical	40
613.6975	19.36	-8	27.36	Vertical	46
927.0075	19.08	-2.9	21.98	Vertical	46

Full Spectrum

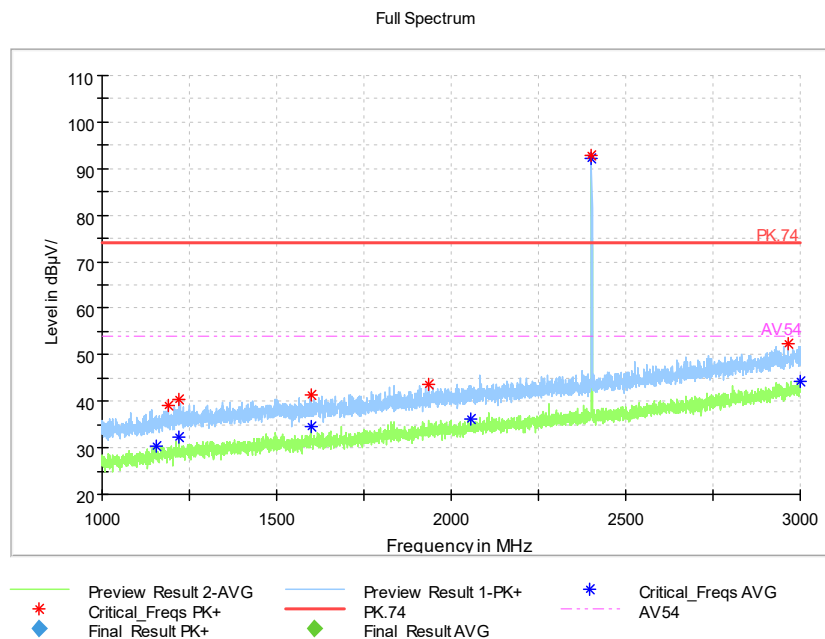


Frequency Range: 9kHz-30MHz

Channel No.:0

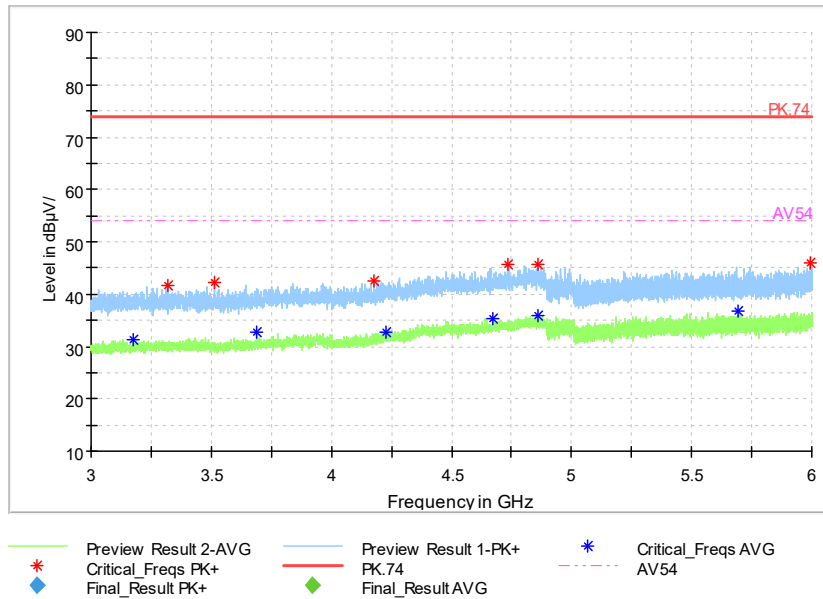


Frequency Range: 30MHz-1000 MHz
Detector: QP mode
Modulation type: GFSK (LE 1Mbps)

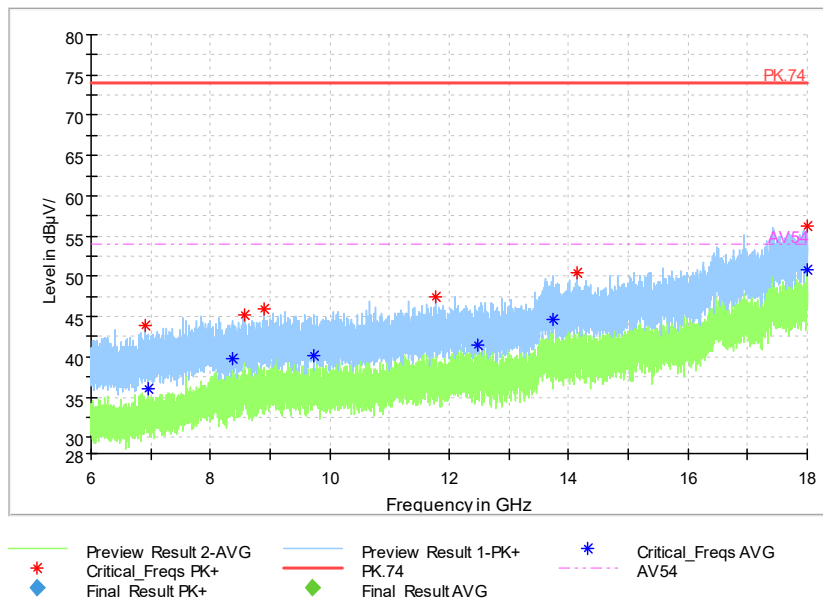


Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 1Mbps)

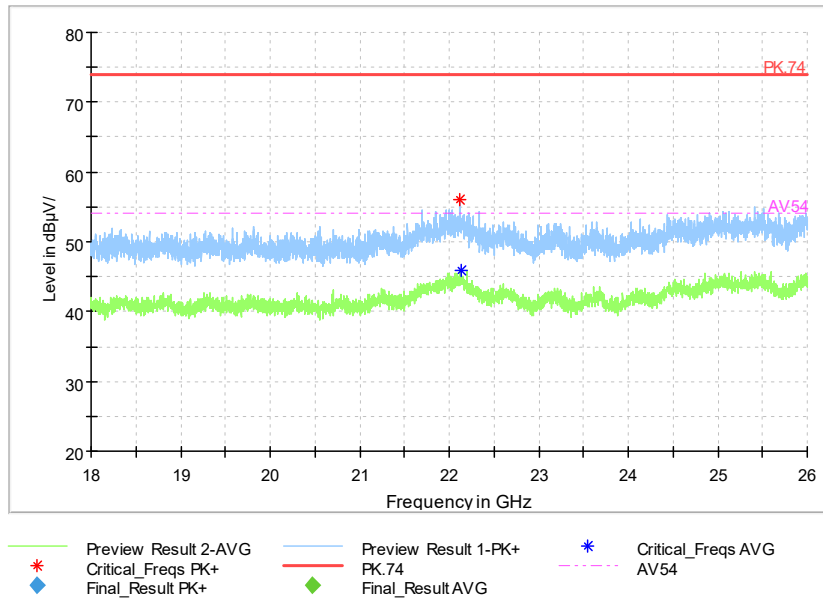
Full Spectrum



Full Spectrum

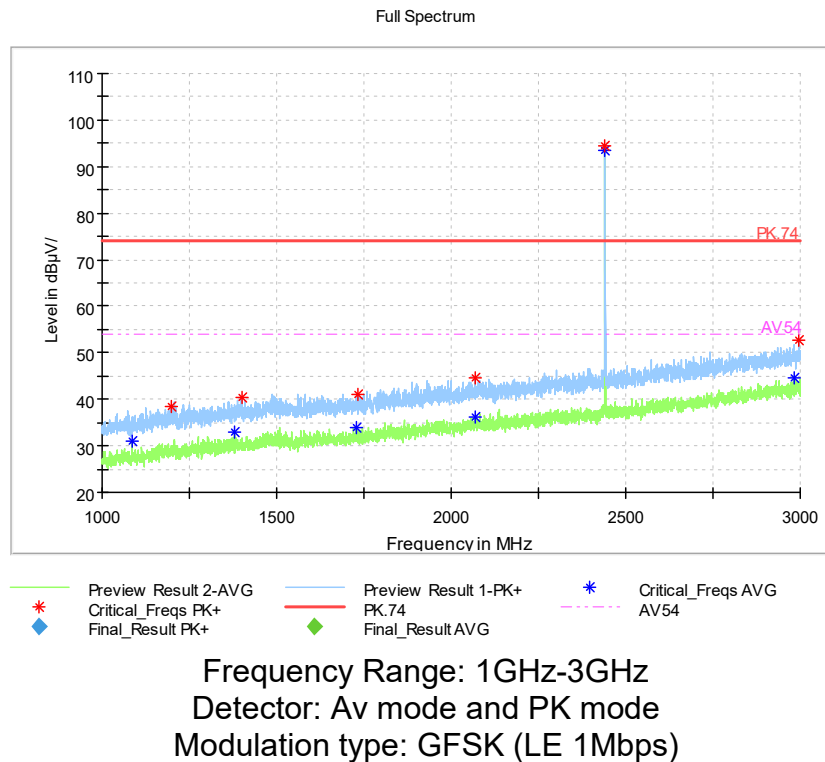
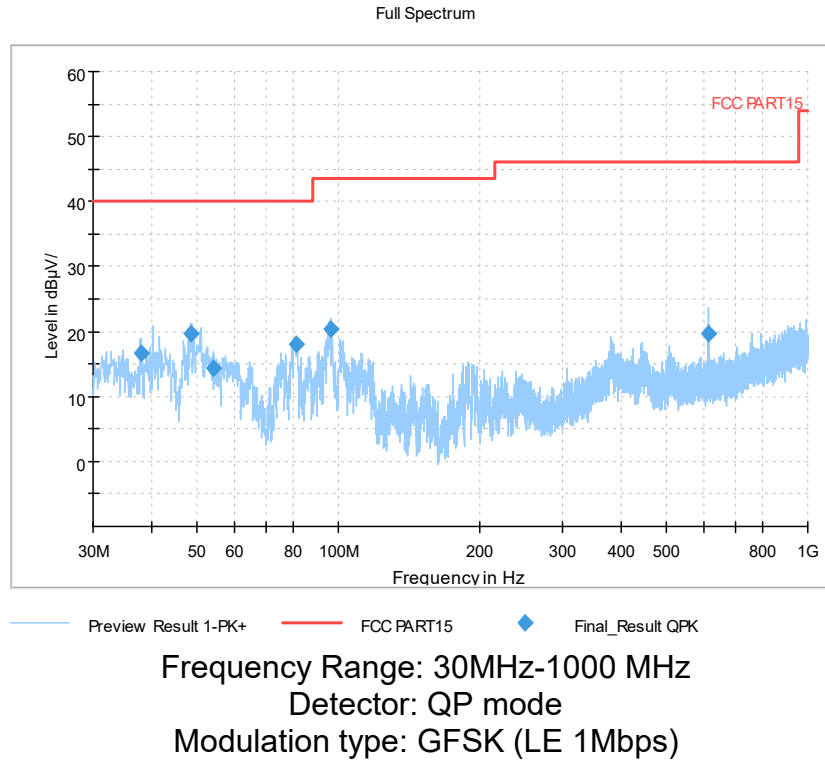


Full Spectrum

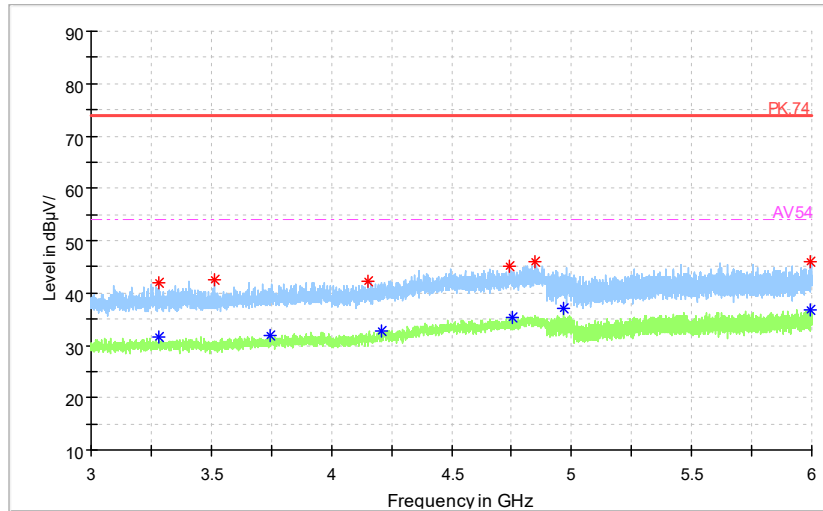


Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 1Mbps)

Channel No.:19

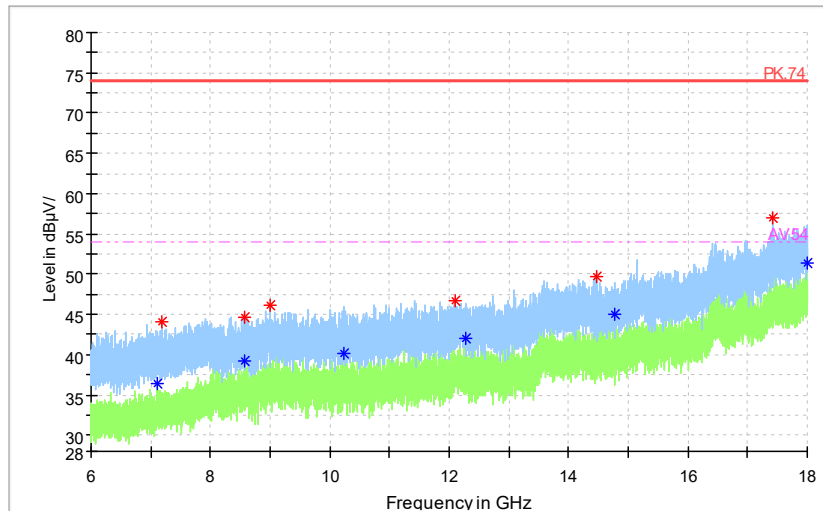


Full Spectrum



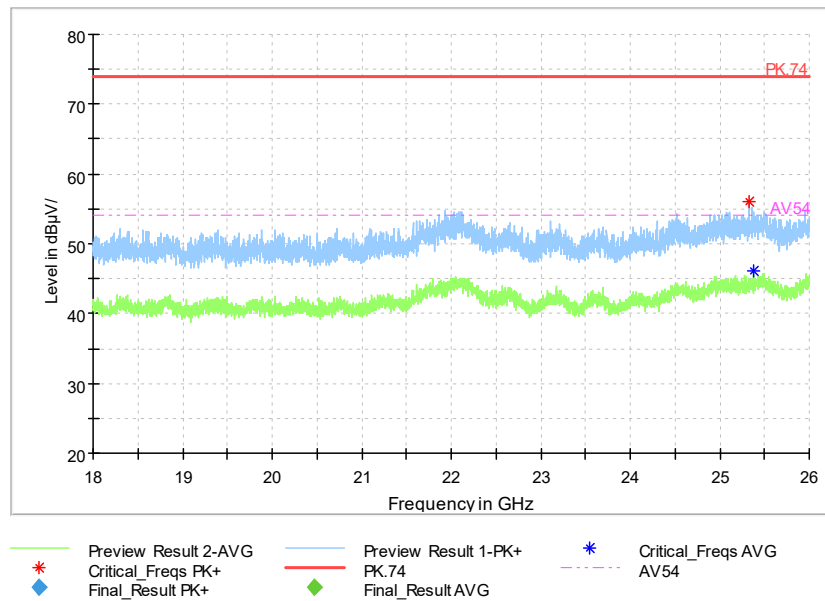
Frequency Range: 3GHz-6GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 1Mbps)

Full Spectrum



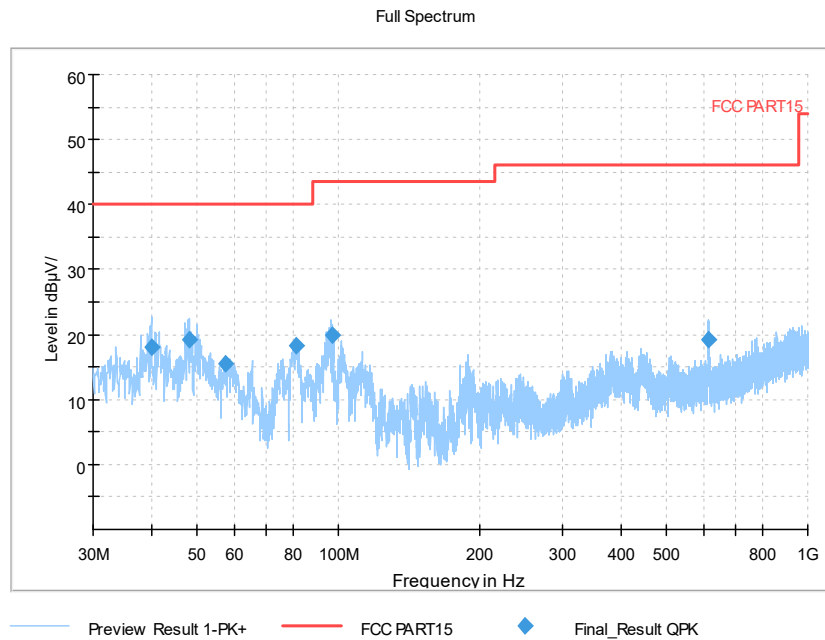
Frequency Range: 6GHz-18GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 1Mbps)

Full Spectrum

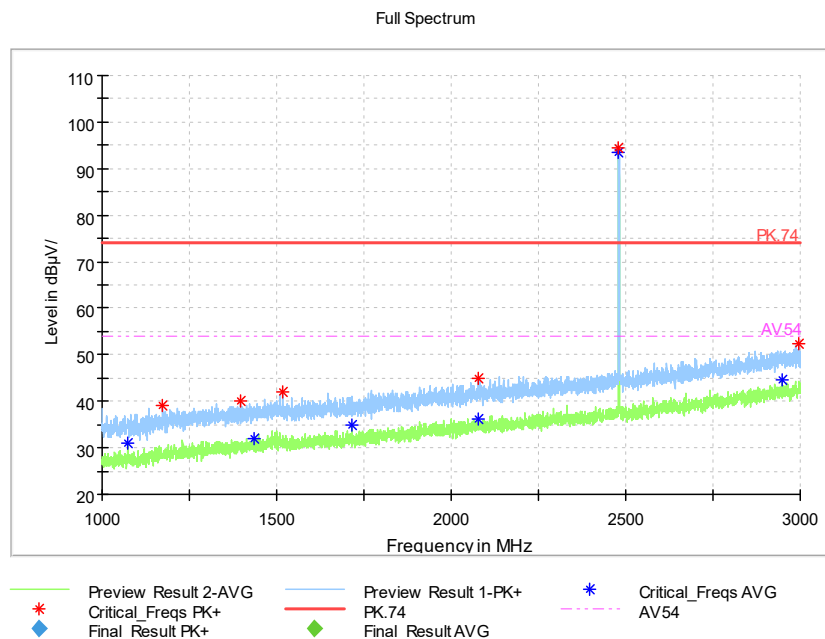


Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 1Mbps)

Channel No.:39

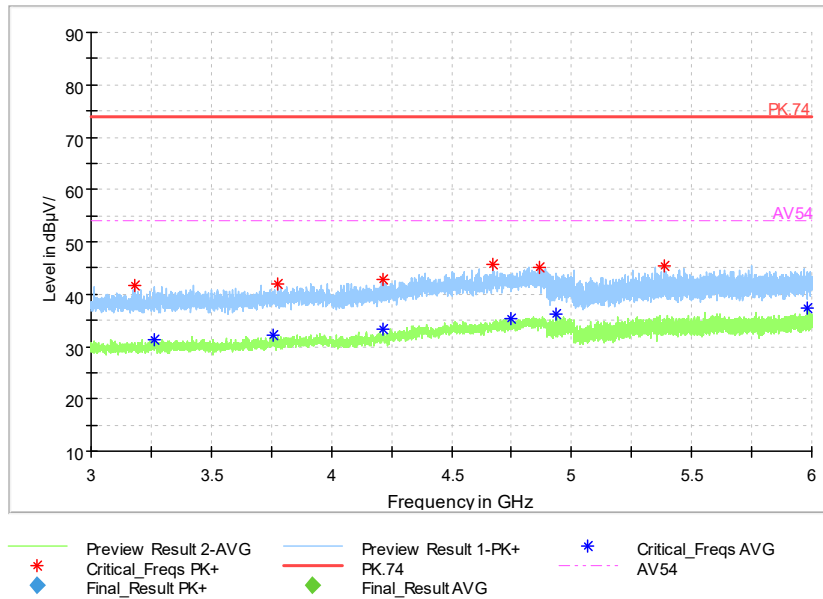


Frequency Range: 30MHz-1000 MHz
Detector: QP mode
Modulation type: GFSK (LE 1Mbps)

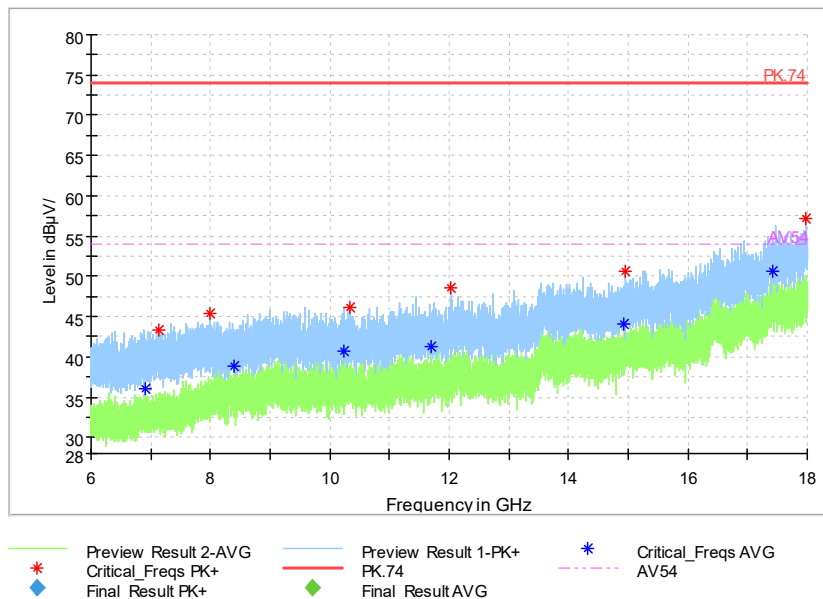


Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 1Mbps)

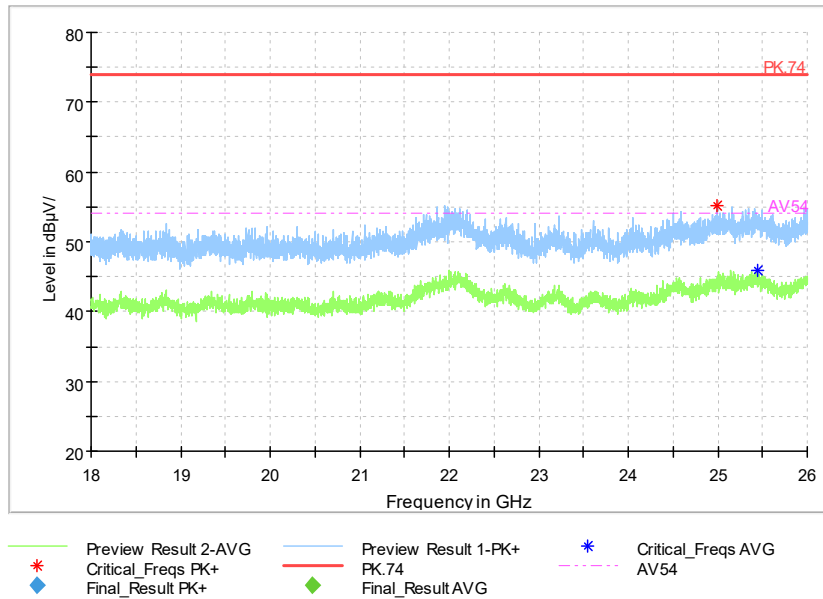
Full Spectrum



Full Spectrum

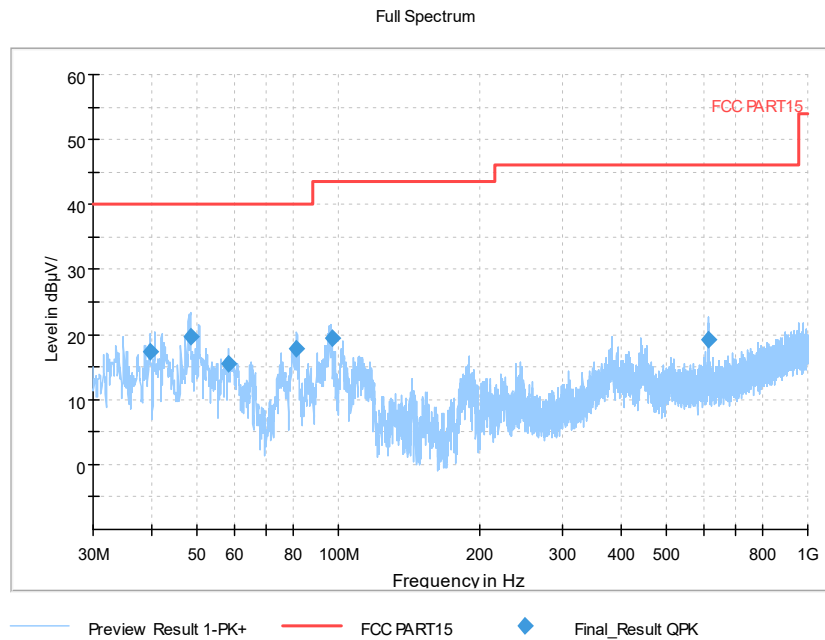


Full Spectrum

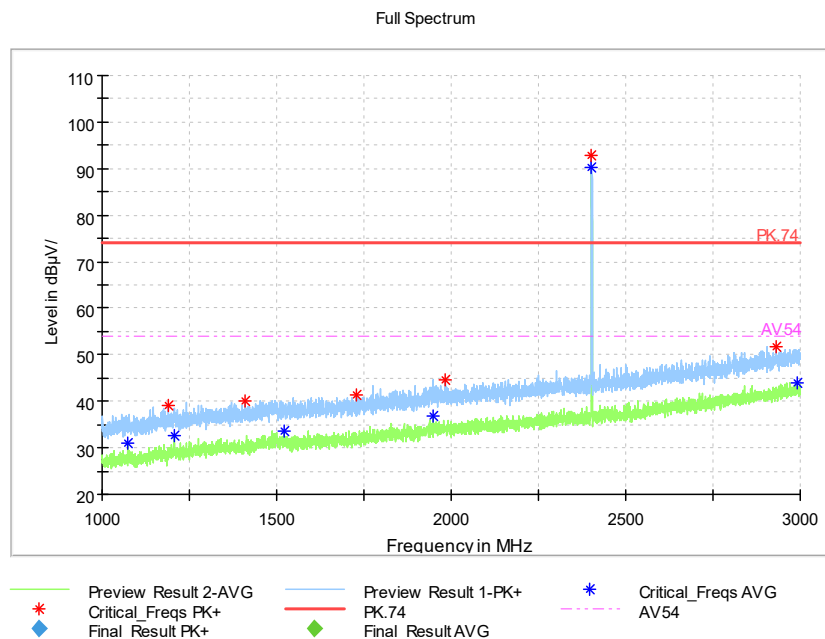


Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 1Mbps)

Channel No.:0

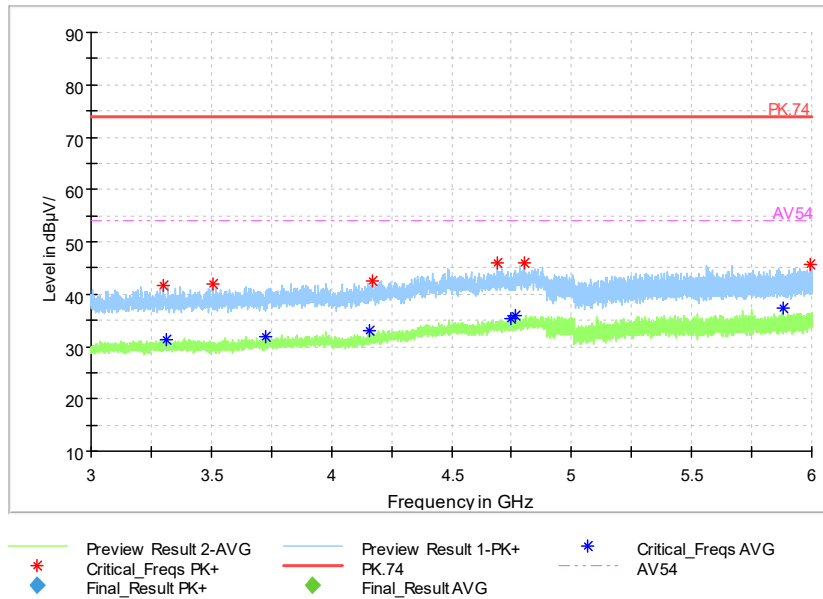


Frequency Range: 30MHz-1000 MHz
Detector: QP mode
Modulation type: GFSK (LE 2Mbps)



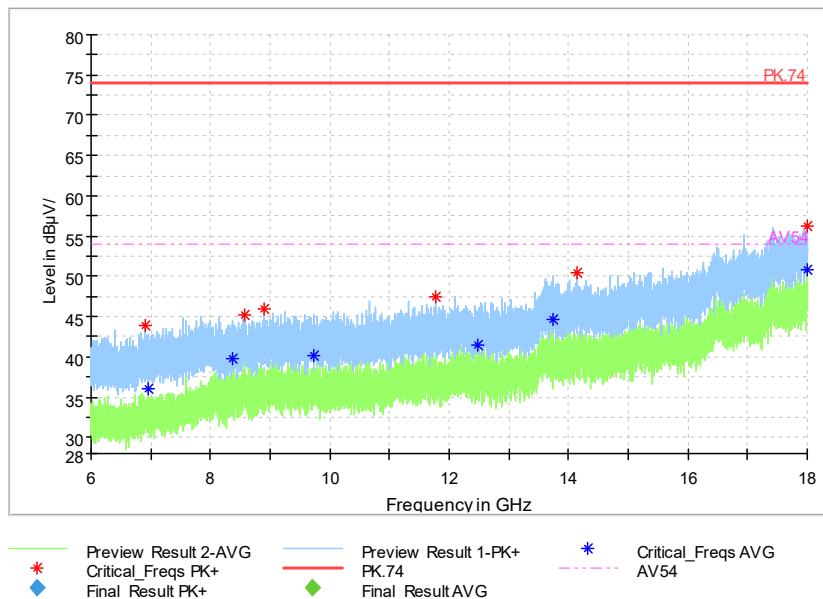
Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 2Mbps)

Full Spectrum



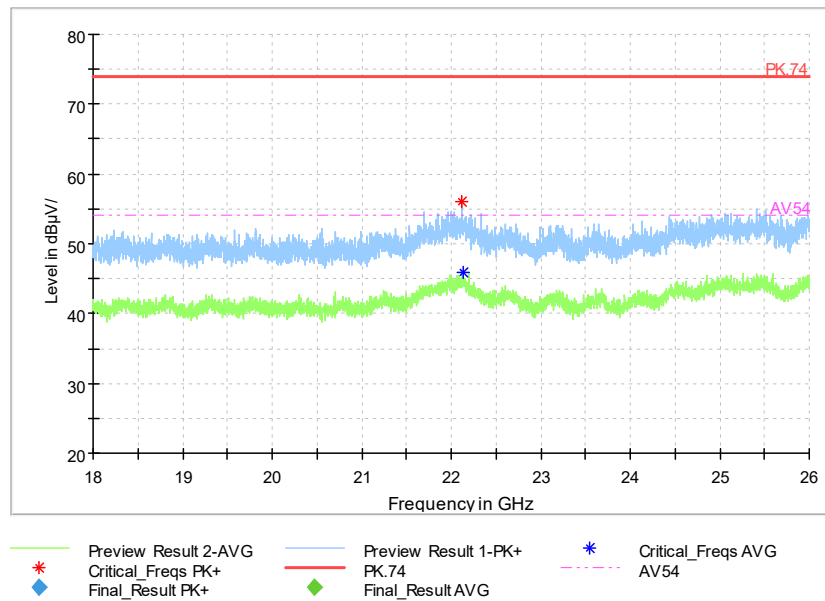
Frequency Range: 3GHz-6GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 2Mbps)

Full Spectrum



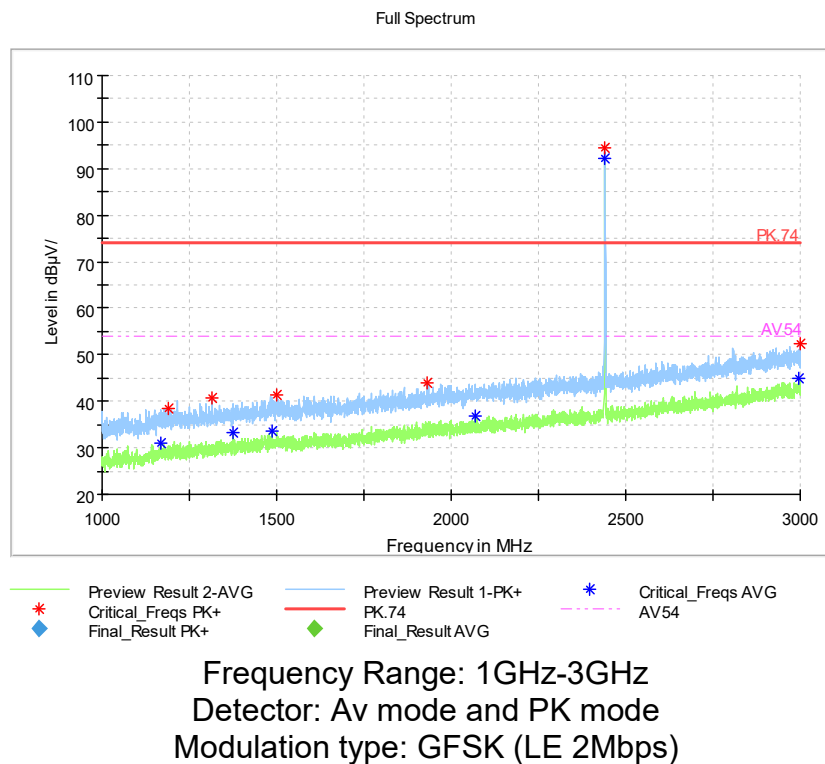
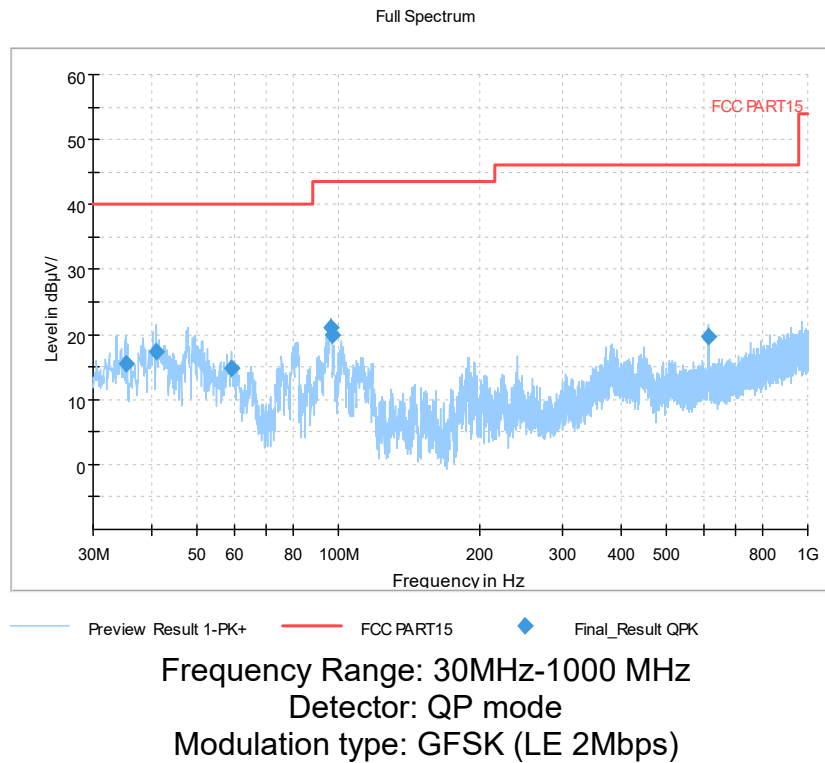
Frequency Range: 6GHz-18GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 2Mbps)

Full Spectrum

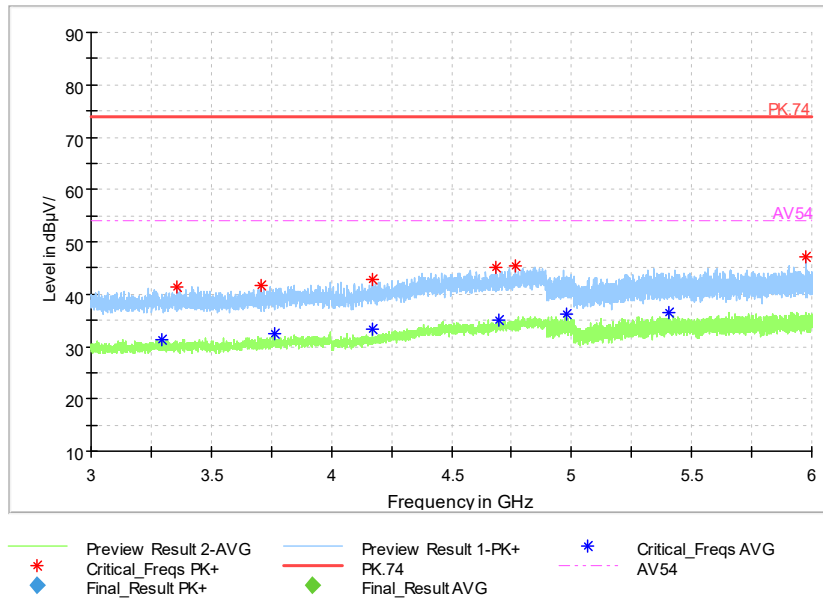


Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 2Mbps)

Channel No.:19

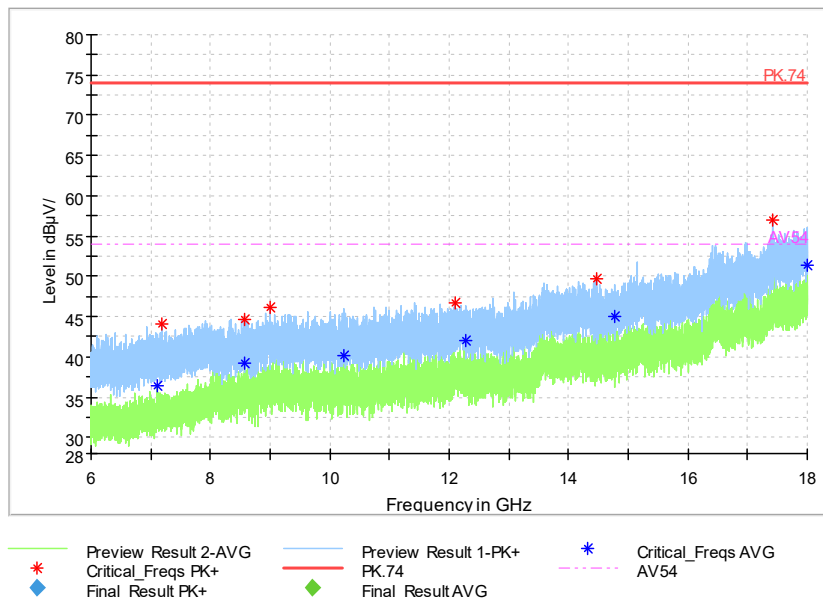


Full Spectrum



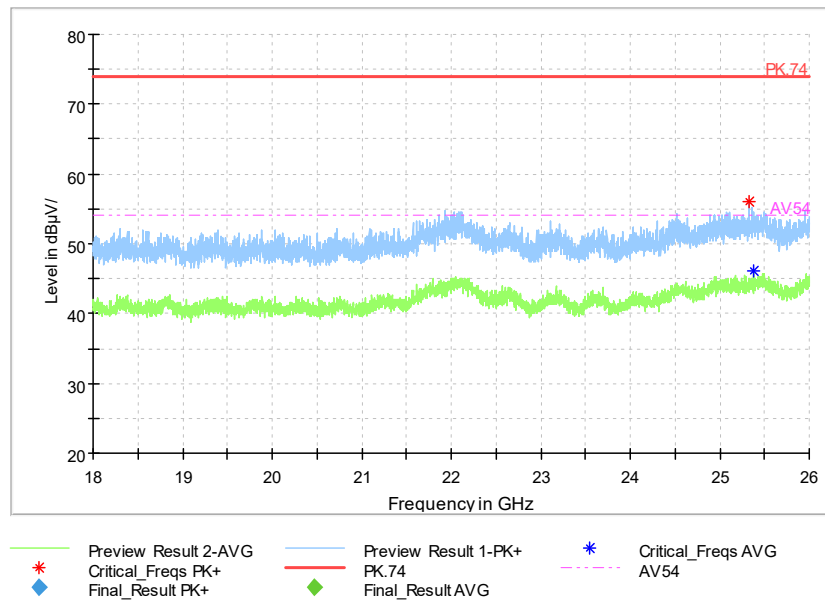
Frequency Range: 3GHz-6GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 2Mbps)

Full Spectrum



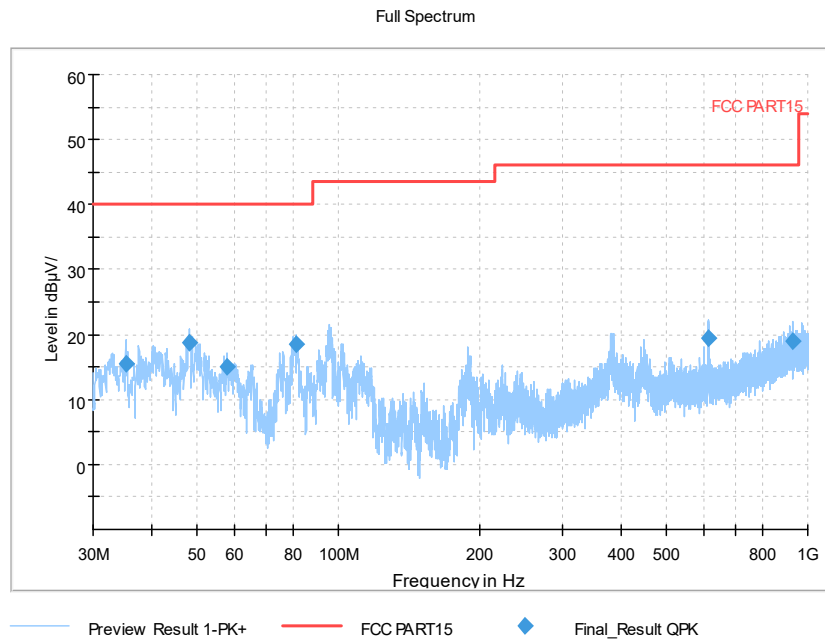
Frequency Range: 6GHz-18GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 2Mbps)

Full Spectrum

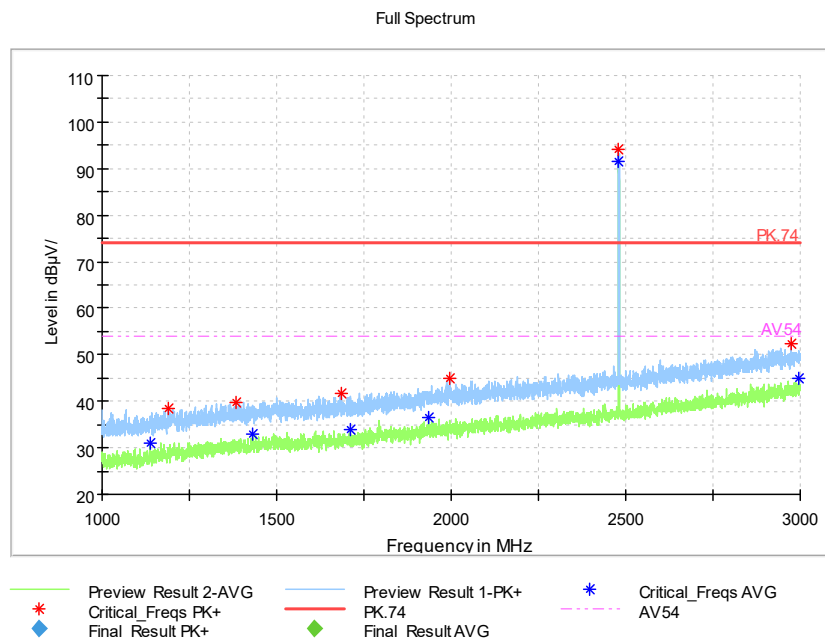


Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 2Mbps)

Channel No.:39

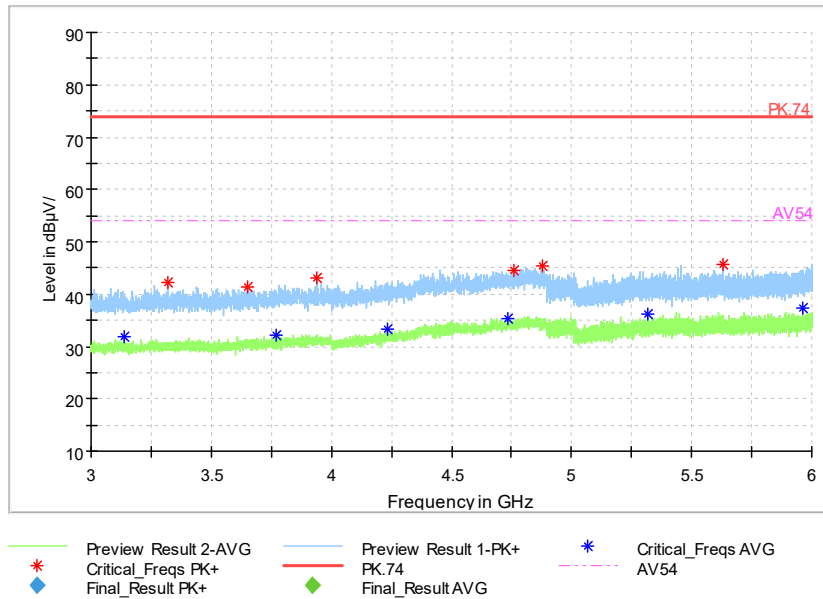


Frequency Range: 30MHz-1000 MHz
Detector: QP mode
Modulation type: GFSK (LE 2Mbps)



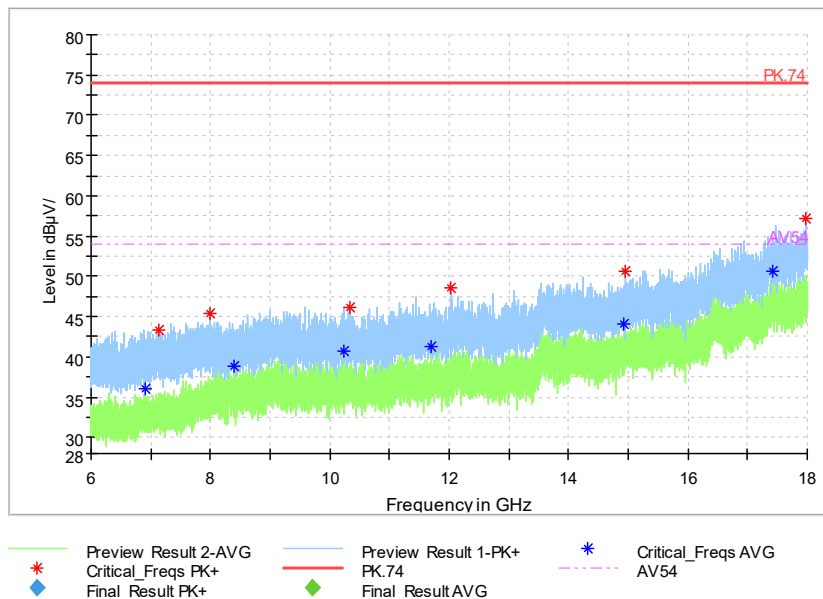
Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 2Mbps)

Full Spectrum



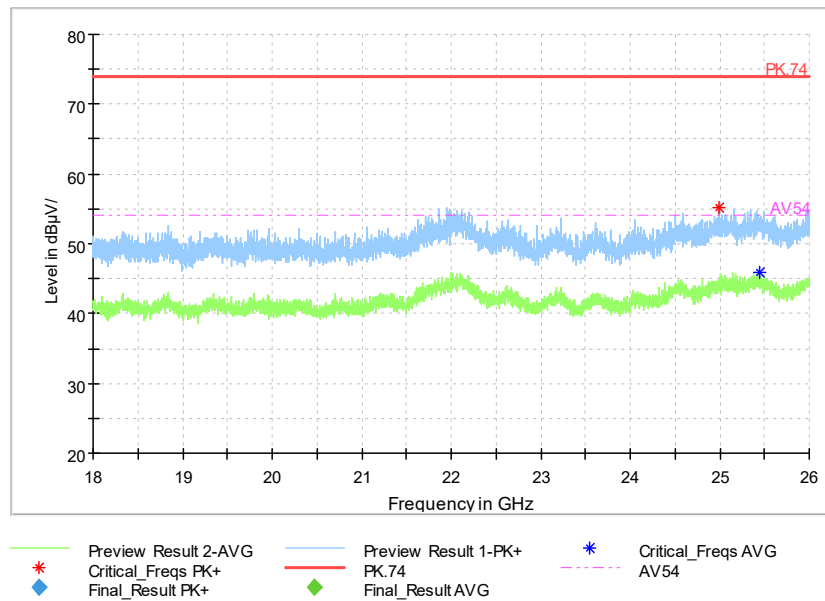
Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 2Mbps)

Full Spectrum



Frequency Range: 6GHz-18GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 2Mbps)

Full Spectrum



Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 2Mbps)

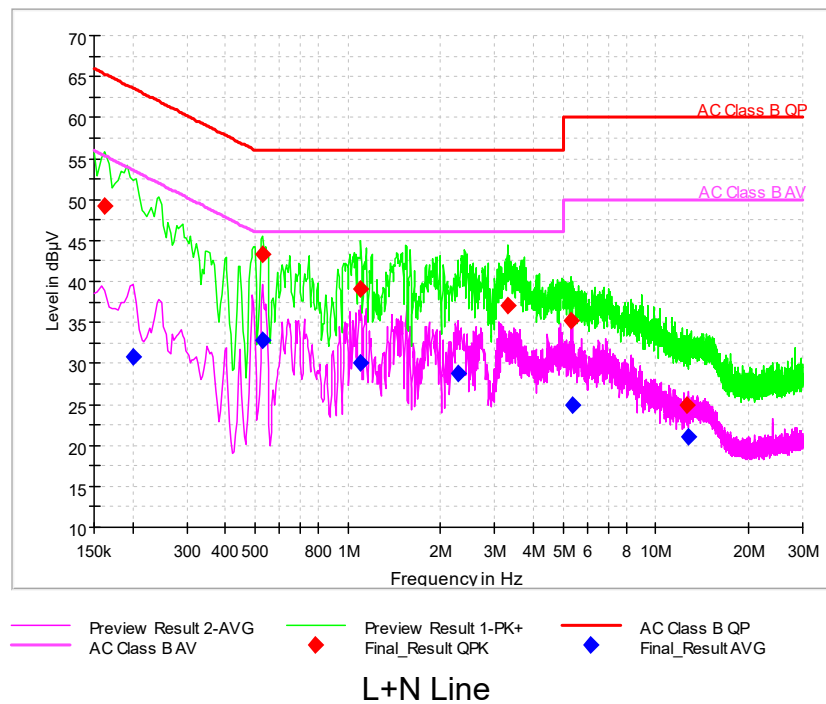
AC Power line Conducted Emission

A "reference path loss" Corr.(dB) is established and the $L_{\text{cable}} + \text{ATT} + \text{VDF}$ is the attenuation of "reference path loss", and including the cable loss, the attenuation of the attenuator, the voltage division factor of AMN.

The measurement results are obtained as described below:

$$P_{\text{result}} = P_{\text{mea}} + \text{Corr. (dB)}$$

Sample calculation: $(49.28 \text{ dB}\mu\text{V}) = (19.58 \text{ dB}\mu\text{V}) + (29.7 \text{ dB})$, the corresponding frequency is 0.162793MHz.



MEASUREMENT RESULT:

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	Pme a Quas iPea k (dBμV)	Pme a Aver age (dBμV)
0.162793	49.28	---	65.32	16.04	L1	29.7	19.5	---
0.201171	---	30.87	53.56	22.69	L1	29.7	---	1.17
0.529521	---	32.8	46	13.2	N	29.8	---	3
0.529521	43.34	---	56	12.66	N	29.8	13.5	---
1.096671	39.04	---	56	16.96	N	29.8	9.24	---
1.100936	---	30.03	46	15.97	N	29.8	---	0.23
2.282143	---	28.78	46	17.22	N	29.8	---	-1.02
3.297043	37.05	---	56	18.95	N	29.9	7.15	---
5.309786	35.18	---	60	24.82	L1	29.8	5.38	---
5.352429	---	24.82	50	25.18	L1	29.8	---	-4.98
12.55907	24.93	---	60	35.07	L1	30	-5.07	---
12.76802	---	20.99	50	29.01	L1	30	---	-9.01

---End of Test Report---