

Carrier frequency (MHz): 2402
Channel No.:0
Test Mode: $\pi/4$ DQPSK
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	87.00	53.00	N/A	N/A	8.90	25.10
2	2390	41.12	7.12	-12.88	54.00	8.90	25.10

Carrier frequency (MHz): 2480
Channel No.:78
Test Mode: $\pi/4$ DQPSK
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	98.09	64.09	N/A	N/A	8.90	25.10
2	2483.5	55.26	21.26	-18.74	74.00	8.90	25.10

Carrier frequency (MHz): 2480
Channel No.:78
Test Mode: $\pi/4$ DQPSK
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	95.11	61.11	N/A	N/A	8.90	25.10
2	2483.5	55.50	21.50	-18.50	74.00	8.90	25.10

Carrier frequency (MHz): 2480
Channel No.:78
Test Mode: $\pi/4$ DQPSK
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	90.69	56.69	N/A	N/A	8.90	25.10
2	2483.5	37.94	3.94	-16.06	54.00	8.90	25.10

Carrier frequency (MHz): 2480
Channel No.:78
Test Mode: $\pi/4$ DQPSK
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	85.65	51.65	N/A	N/A	8.90	25.10
2	2483.5	40.44	6.44	-13.56	54.00	8.90	25.10

Carrier frequency (MHz): 2402
Channel No.:0
Test Mode: 8DPSK
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	99.14	65.14	N/A	N/A	8.90	25.10
2	2390	54.81	20.81	-19.19	74.00	8.90	25.10

Carrier frequency (MHz): 2402
Channel No.:0
Test Mode: 8DPSK
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	97.46	63.46	N/A	N/A	8.90	25.10
2	2390	56.22	22.22	-17.78	74.00	8.90	25.10

Carrier frequency (MHz): 2402
Channel No.:0
Test Mode: 8DPSK
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	90.11	56.11	N/A	N/A	8.90	25.10
2	2390	40.25	6.25	-13.75	54.00	8.90	25.10

Carrier frequency (MHz): 2402
Channel No.:0
Test Mode: 8DPSK
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	87.54	53.54	N/A	N/A	8.90	25.10
2	2390	41.05	7.05	-12.95	54.00	8.90	25.10

Carrier frequency (MHz): 2480
Channel No.:78
Test Mode: 8DPSK
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	98.31	64.31	N/A	N/A	8.90	25.10
2	2483.5	55.27	21.27	-18.73	74.00	8.90	25.10

Carrier frequency (MHz): 2480
Channel No.:78
Test Mode: 8DPSK
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	94.75	60.75	N/A	N/A	8.90	25.10
2	2483.5	55.70	21.70	-18.30	74.00	8.90	25.10

Carrier frequency (MHz): 2480
Channel No.:78
Test Mode: 8DPSK
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	91.43	57.43	N/A	N/A	8.90	25.10
2	2483.5	40.47	6.47	-13.53	54.00	8.90	25.10

Carrier frequency (MHz): 2480
Channel No.:78
Test Mode: 8DPSK
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	86.39	52.39	N/A	N/A	8.90	25.10
2	2483.5	41.89	7.89	-12.11	54.00	8.90	25.10

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:

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

Sample calculation: $(25.6 \text{ dB}\mu\text{V/m}) = (47.3 \text{ dB}\mu\text{V}) + (-21.7 \text{ dB/m})$, the corresponding frequency is 30.04MHz.

The worst case attitude: The eut lay down.

For GFSK
Channel No.:0

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)
30.04	25.6	-21.7	47.3	Vertical	40.00
42.249583	28.53	-18.1	46.63	Vertical	40.00
45.11625	31.09	-17.5	48.59	Vertical	40.00
48.937083	26.3	-17.5	43.8	Vertical	40.00
50.355833	21.93	-17.5	39.43	Vertical	40.00
55.559167	20.61	-18	38.61	Vertical	40.00

For $\pi/4$ DQPSK
Channel No.:0

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)
30	25.51	-21.7	47.21	Vertical	40.00
35.596667	22.52	-20.3	42.82	Vertical	40.00
42.829167	31.02	-18	49.02	Vertical	40.00
45.136667	33.75	-17.5	51.25	Vertical	40.00
69.85625	20.1	-21.9	42	Vertical	40.00
84.345833	18.22	-23.4	41.62	Vertical	40.00

For 8DPSK
Channel No.:0

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)
30.2425	24.92	-21.7	46.62	Vertical	40.00
42.407917	30.64	-18.1	48.74	Vertical	40.00
43.095	31.3	-17.9	49.2	Vertical	40.00
55.785833	23.34	-18.1	41.44	Vertical	40.00
63.34375	17.11	-19.8	36.91	Vertical	40.00
84.279583	18.06	-23.4	41.46	Vertical	40.00

For GFSK
Channel No.:39

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)
30.60625	24.76	-21.6	46.36	Vertical	40.00
41.963333	30.32	-18.2	48.52	Vertical	40.00
45.237083	33.71	-17.5	51.21	Vertical	40.00
70.0125	20.11	-21.9	42.01	Vertical	40.00
84.32	18.05	-23.4	41.45	Vertical	40.00
86.13875	15.85	-22.7	38.55	Vertical	40.00

For $\pi/4$ DQPSK
Channel No.:39

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)
30.282917	24.64	-21.6	46.24	Vertical	40.00
35.496667	22.46	-20.3	42.76	Vertical	40.00
41.599583	30.02	-18.2	48.22	Vertical	40.00
45.237083	33.72	-17.5	51.22	Vertical	40.00
70.335833	20.09	-22	42.09	Vertical	40.00
84.481667	18.04	-23.3	41.34	Vertical	40.00

For 8DPSK
Channel No.:39

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)
30	25.66	-21.7	47.36	Vertical	40.00
42.569583	30.9	-18	48.9	Vertical	40.00
45.2775	33.71	-17.5	51.21	Vertical	40.00
69.689167	20.05	-21.8	41.85	Vertical	40.00
84.400833	18.07	-23.3	41.37	Vertical	40.00
85.977083	16.02	-22.8	38.82	Vertical	40.00

For GFSK
Channel No.:78

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)
30.485	24.52	-21.6	46.12	Vertical	40.00
42.3675	30.64	-18.1	48.74	Vertical	40.00
45.358333	33.73	-17.5	51.23	Vertical	40.00
69.77	20.12	-21.8	41.92	Vertical	40.00
78.176667	18.09	-24.4	42.49	Vertical	40.00
84.32	18.07	-23.4	41.47	Vertical	40.00

For $\pi/4$ DQPSK
Channel No.:78

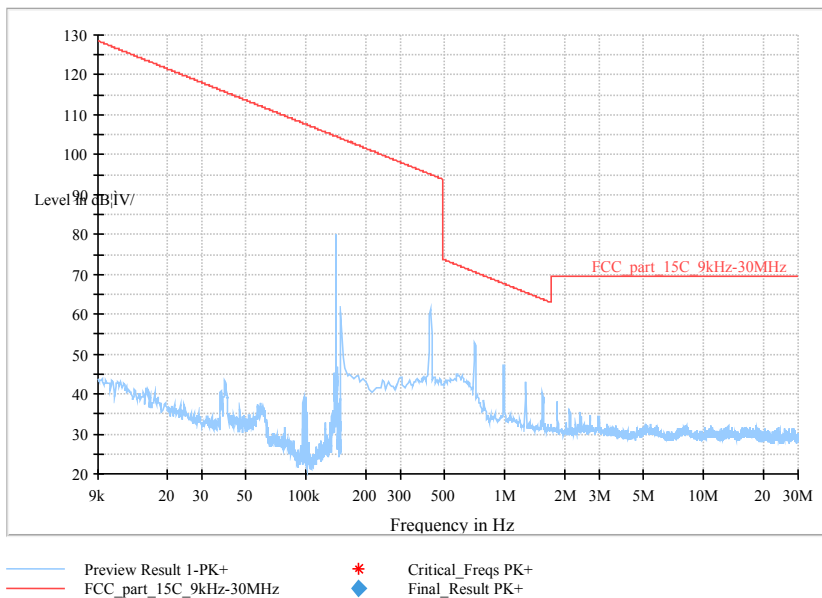
Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)
30.202083	24.99	-21.7	46.69	Vertical	40.00
42.125	30.44	-18.1	48.54	Vertical	40.00
44.994583	33.48	-17.6	51.08	Vertical	40.00
70.174167	20.28	-22	42.28	Vertical	40.00
78.580833	18.13	-24.4	42.53	Vertical	40.00
84.522083	18.16	-23.3	41.46	Vertical	40.00

For 8DPSK
Channel No.:78

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)
30.080833	25.3	-21.7	47	Vertical	40.00
42.569583	30.81	-18	48.81	Vertical	40.00
45.035	33.72	-17.6	51.32	Vertical	40.00
69.729583	20.07	-21.8	41.87	Vertical	40.00
83.835	17.68	-23.5	41.18	Vertical	40.00
86.219583	15.77	-22.7	38.47	Vertical	40.00

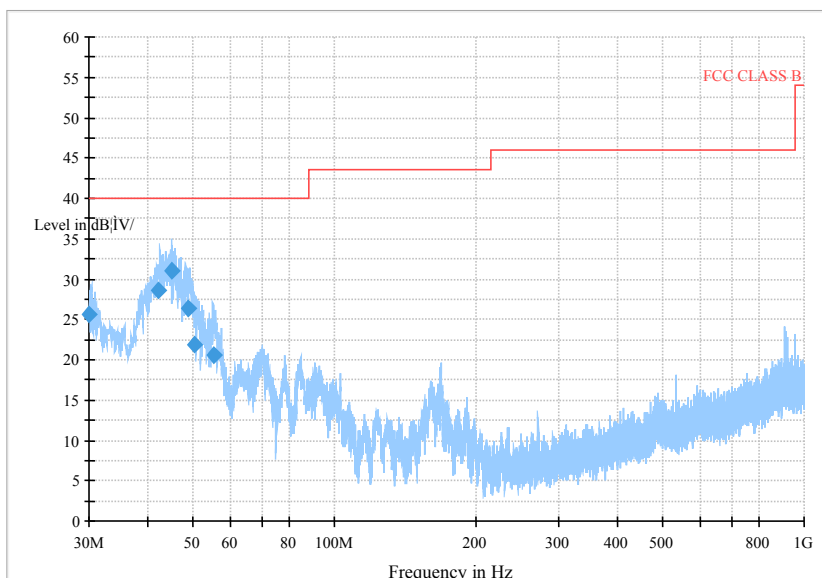
Carrier frequency (MHz): 2402
Channel No.:0

Full Spectrum



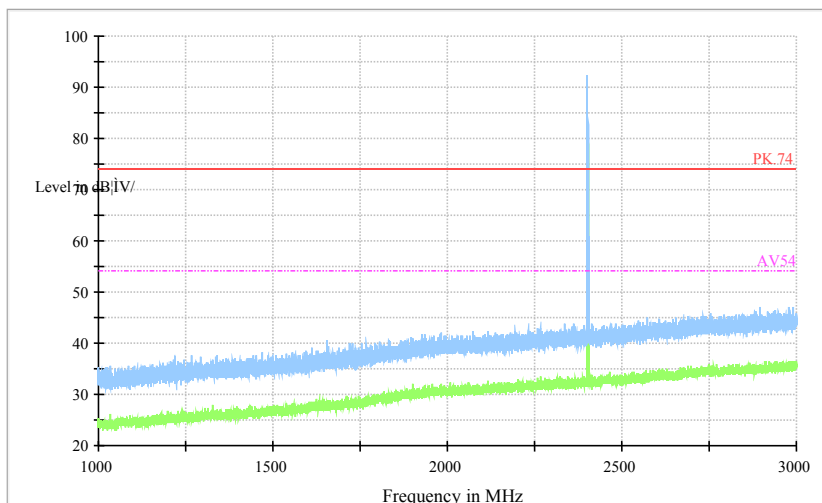
Frequency Range: 9kHz-30MHz
Detector: PK mode
Modulation type: GFSK

Full Spectrum



Frequency Range: 30MHz-1000MHz
Detector: QP mode
Modulation type: GFSK

Full Spectrum

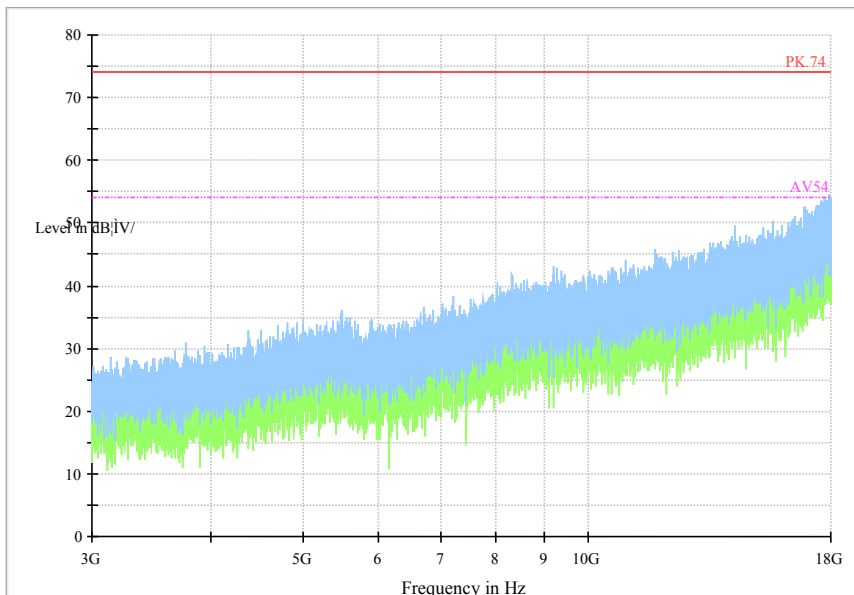


Preview Result 2-AVG Preview Result 1-PK+ PK.74 AV54

Comment

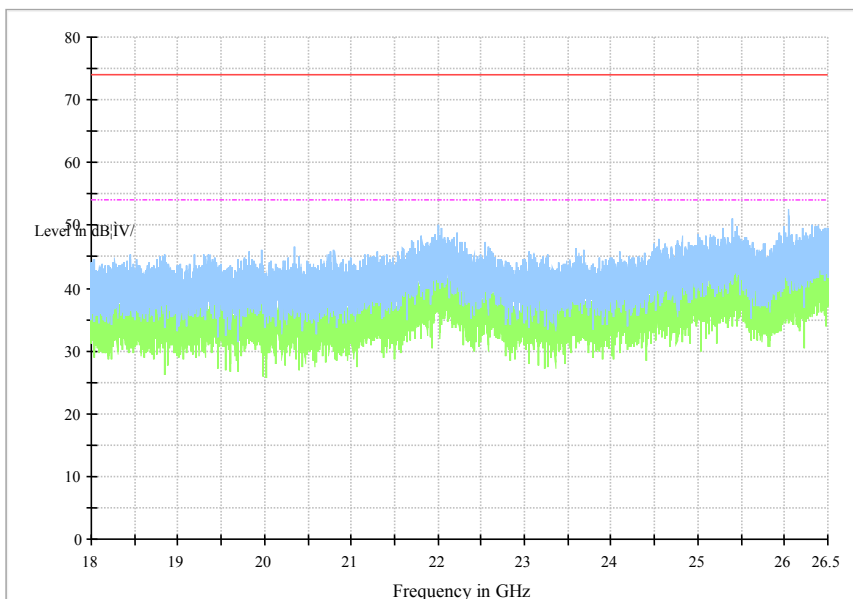
Frequency Range: 1GHz-3GHz
 Detector: Av mode and PK mode
 Modulation type: GFSK

Full Spectrum



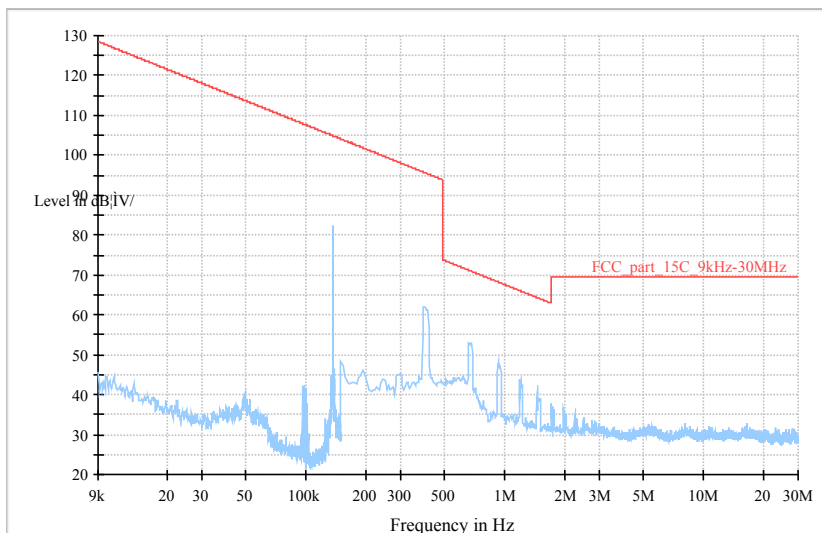
Frequency Range: 3GHz- 18GHz
 Detector: Av mode and PK mode
 Modulation type: GFSK

Full Spectrum



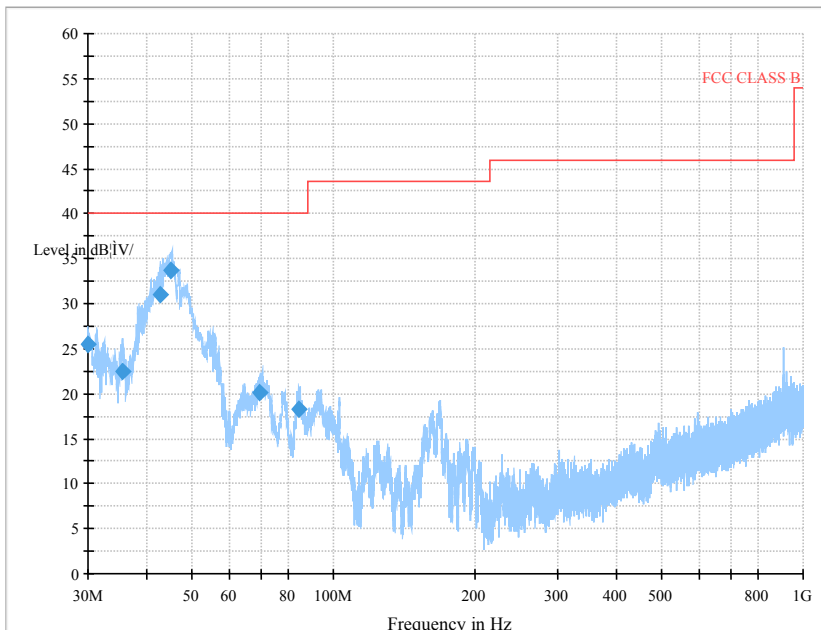
Frequency Range: 18GHz-25GHz
 Detector: Av mode and PK mode
 Modulation type: GFSK

Full Spectrum



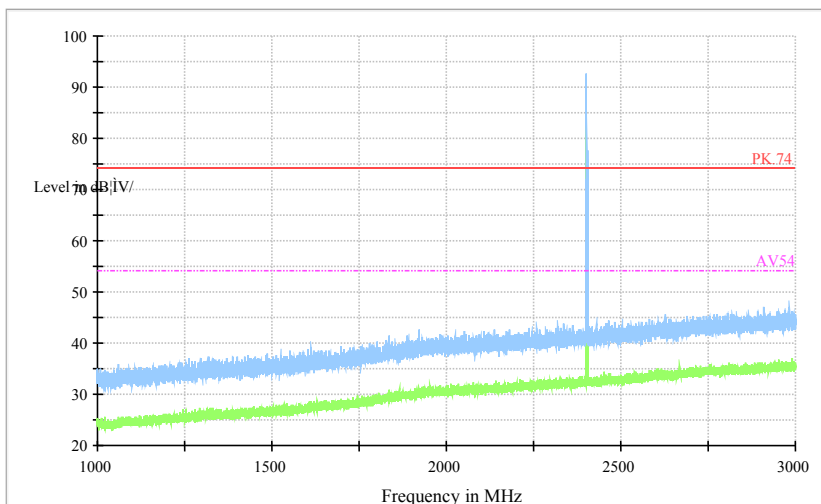
— Preview Result 1-PK+ * Critical_Freqs PK+
 — FCC_part_15C_9kHz-30MHz ◆ Final_Result PK+

Frequency Range: 9kHz-30MHz
 Detector: PK mode
 Modulation type: $\pi/4$ DQPSK



Frequency Range: 30MHz-1000 MHz
 Detector: QP mode
 Modulation type: $\pi/4$ DQPSK

Full Spectrum

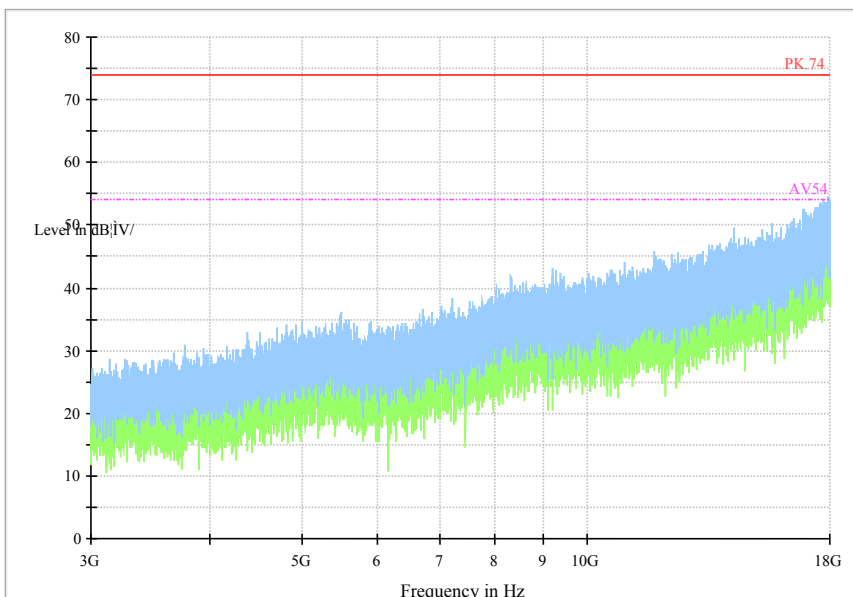


Preview Result 2-AVG Preview Result 1-PK+ PK.74 AV54

Comment

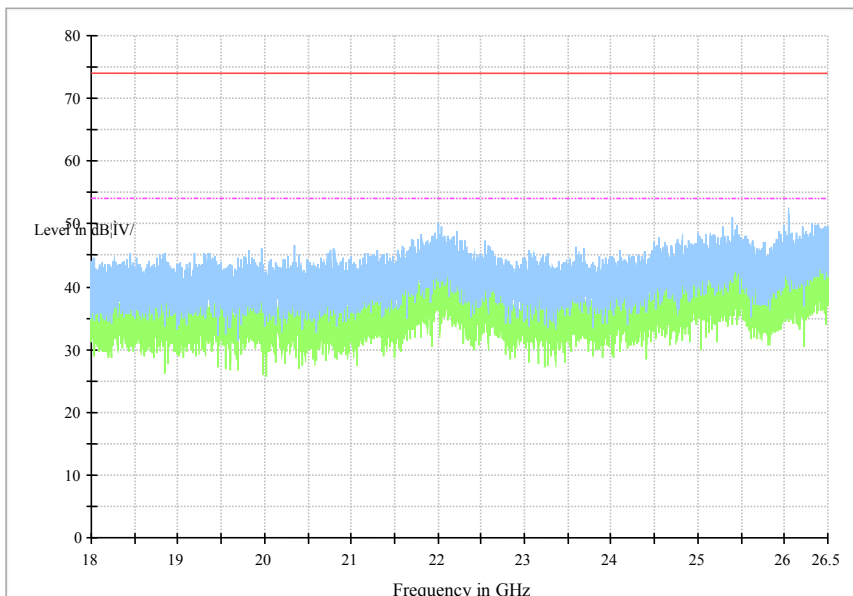
Frequency Range: 1GHz-3GHz
 Detector: Av mode and PK mode
 Modulation type: $\pi/4$ DQPSK

Full Spectrum



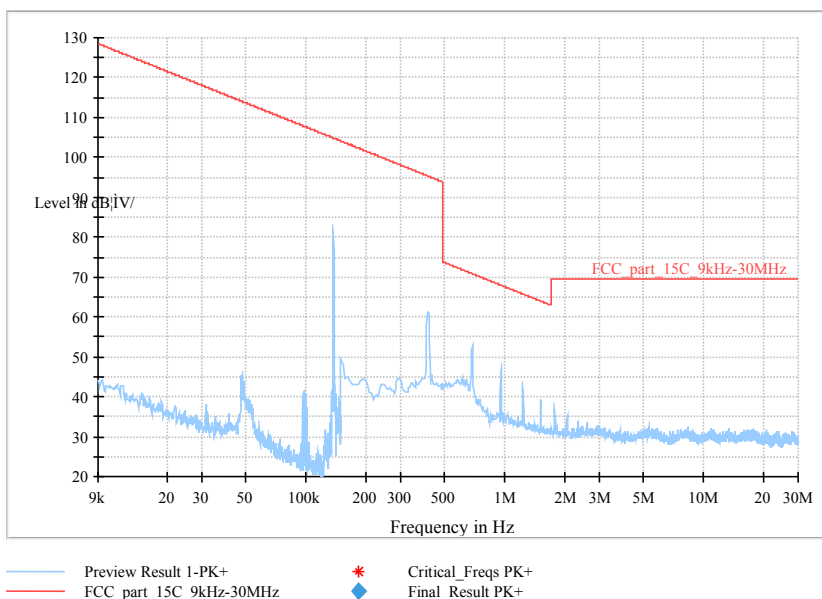
Frequency Range: 3GHz-18GHz
 Detector: Av mode and PK mode
 Modulation type: $\pi/4$ DQPSK

Full Spectrum

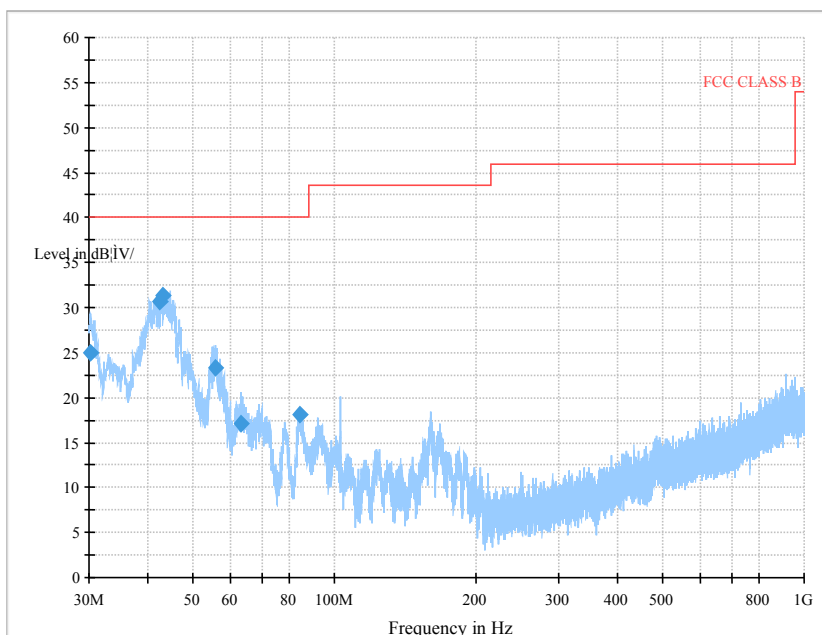


Frequency Range: 18GHz-25GHz
 Detector: Av mode and PK mode
 Modulation type: $\pi/4$ DQPSK

Full Spectrum



Frequency Range: 9kHz-30MHz
 Detector: PK mode
 Modulation type: 8DPSK



Frequency Range: 30MHz-1000 MHz
 Detector: QP mode
 Modulation type: 8DPSK