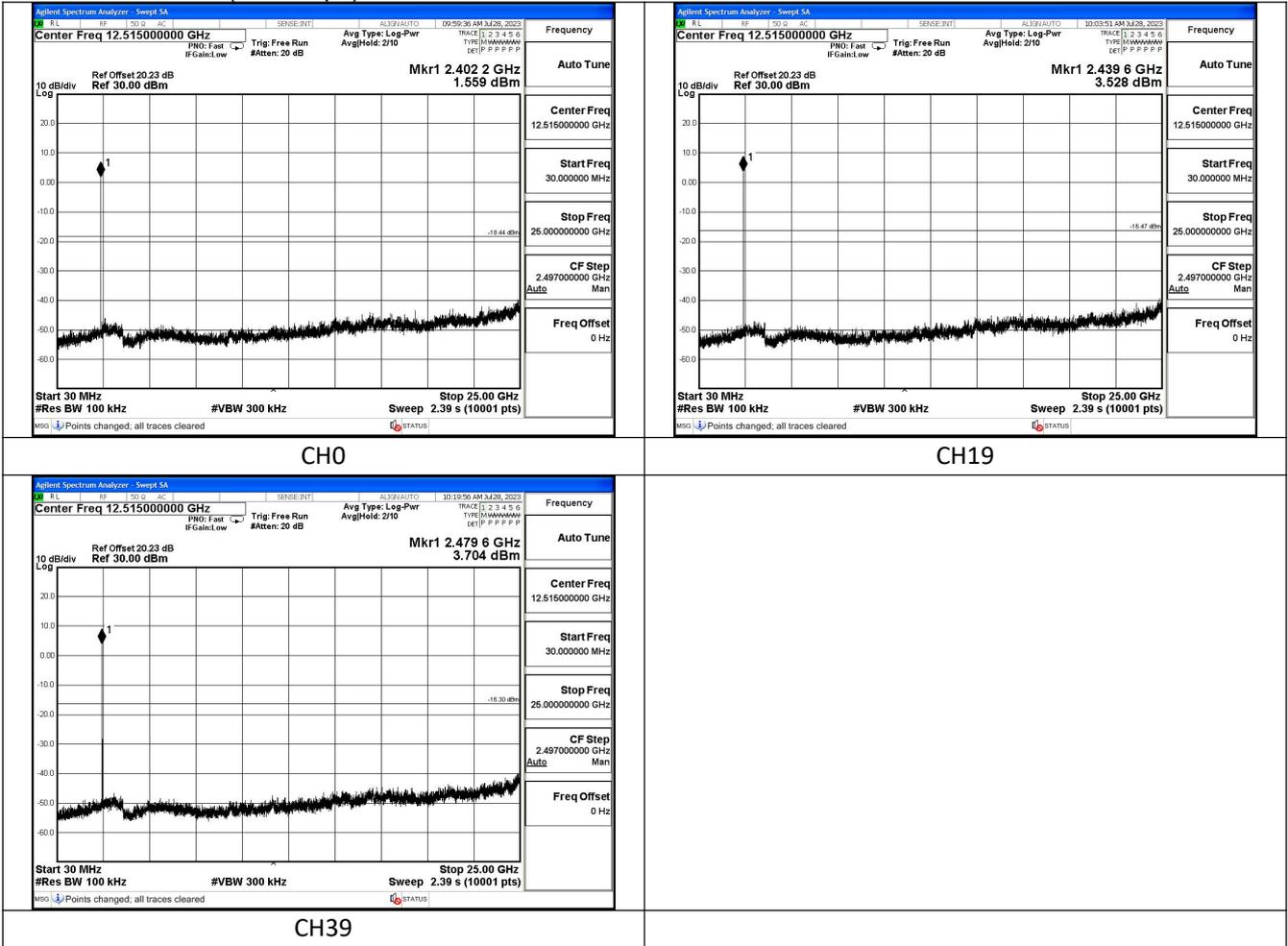
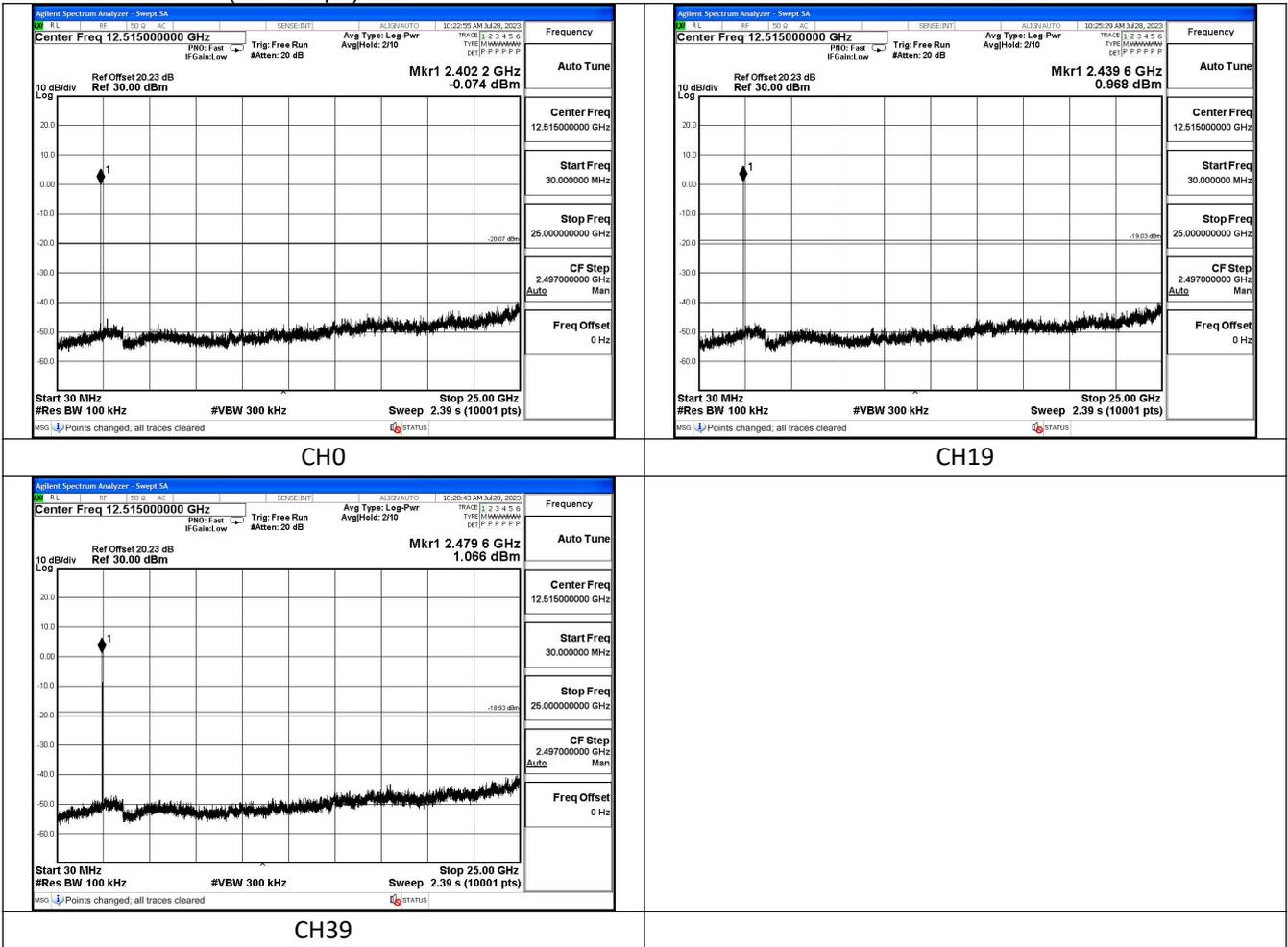


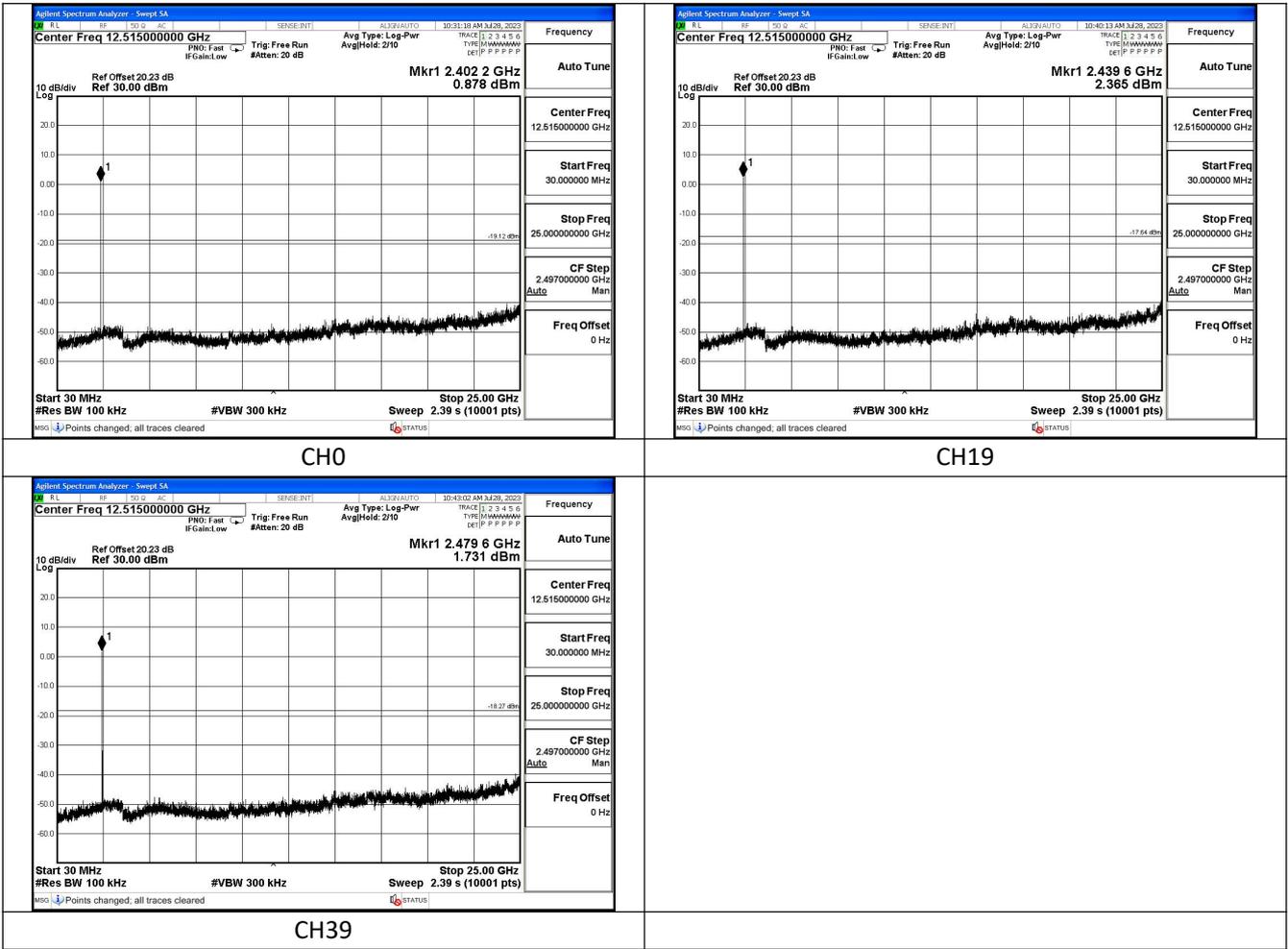
5 Conducted Out of band emission measurement
Test Mode: GFSK (LE 1Mbps)



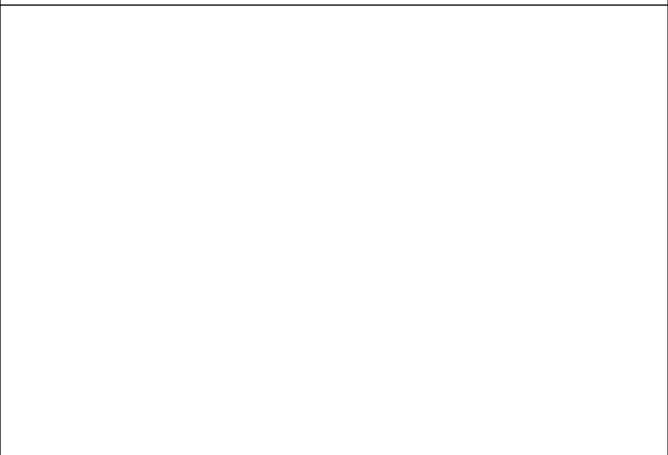
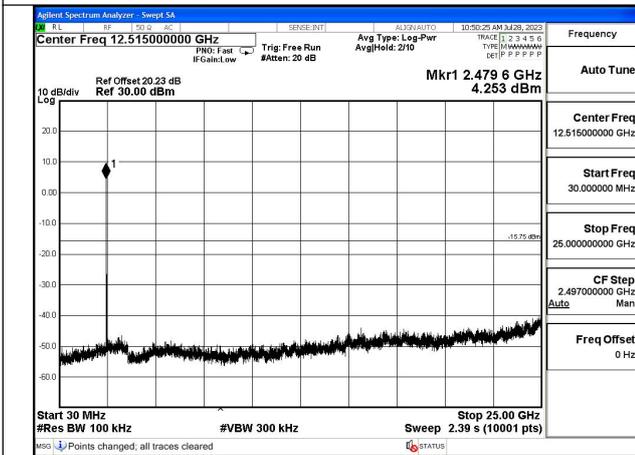
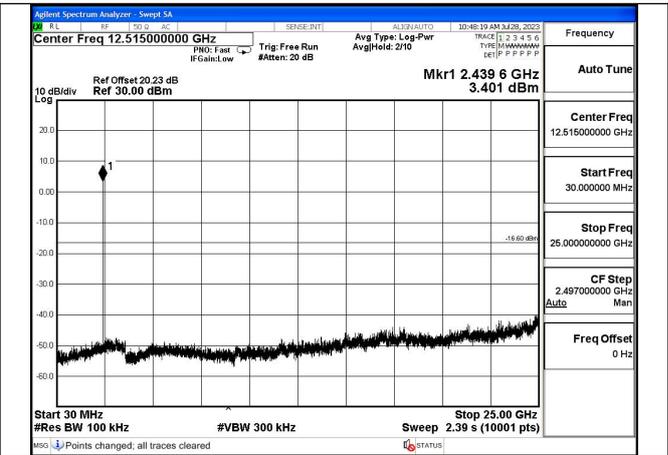
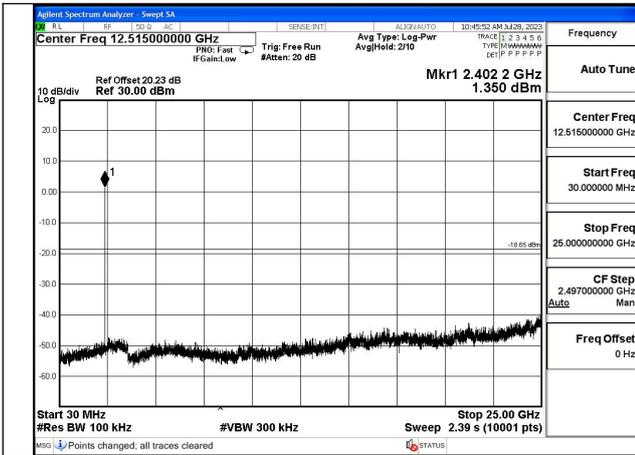
Test Mode: GFSK (LE 2Mbps)



Test Mode: Coded 125K

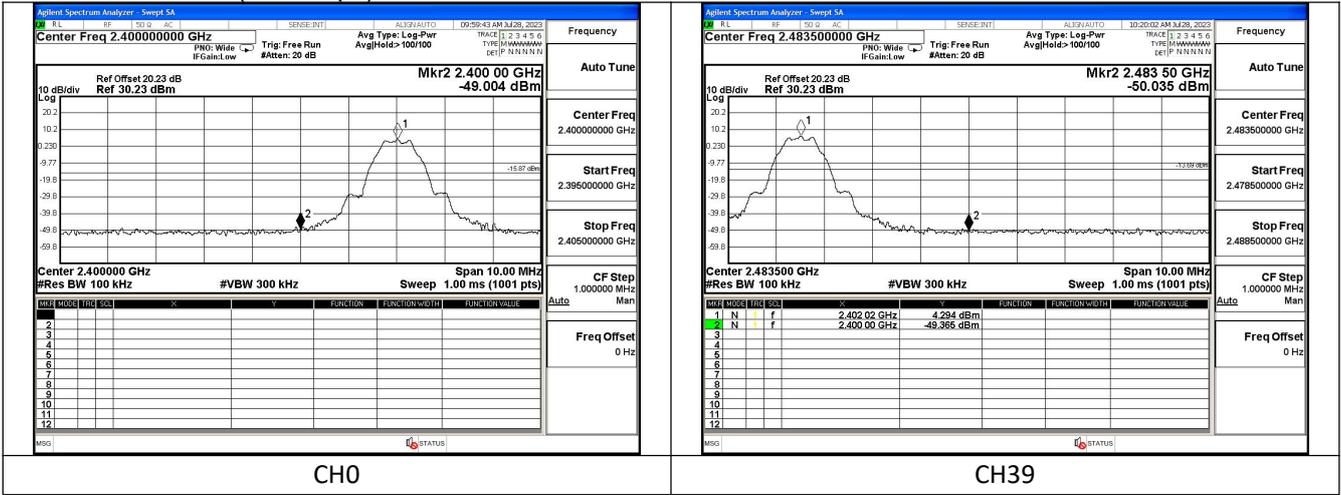


Test Mode: Coded 500K

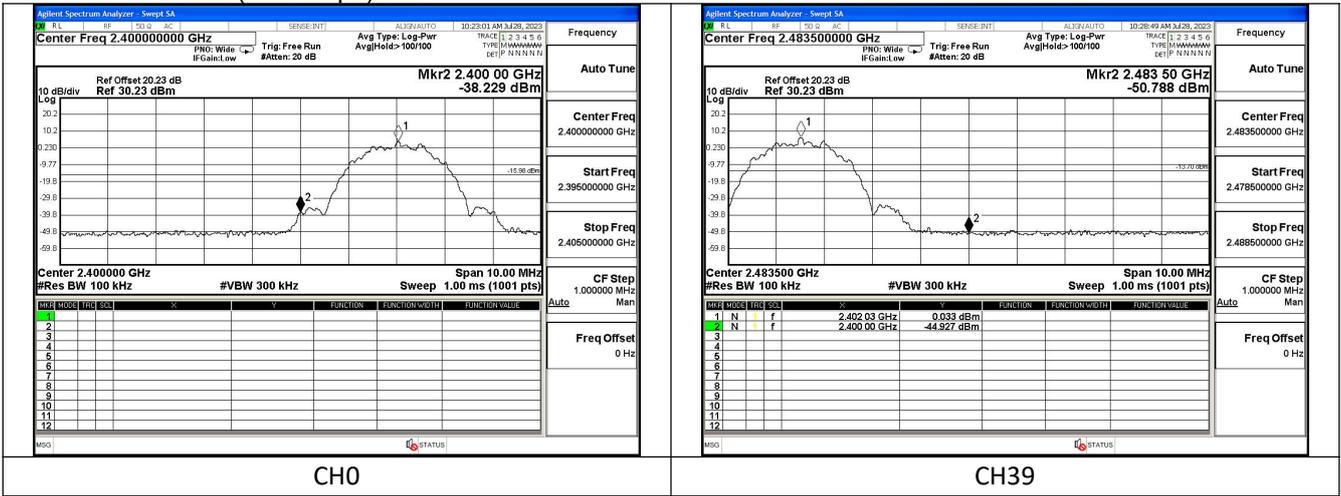


6 Band Edge measurement

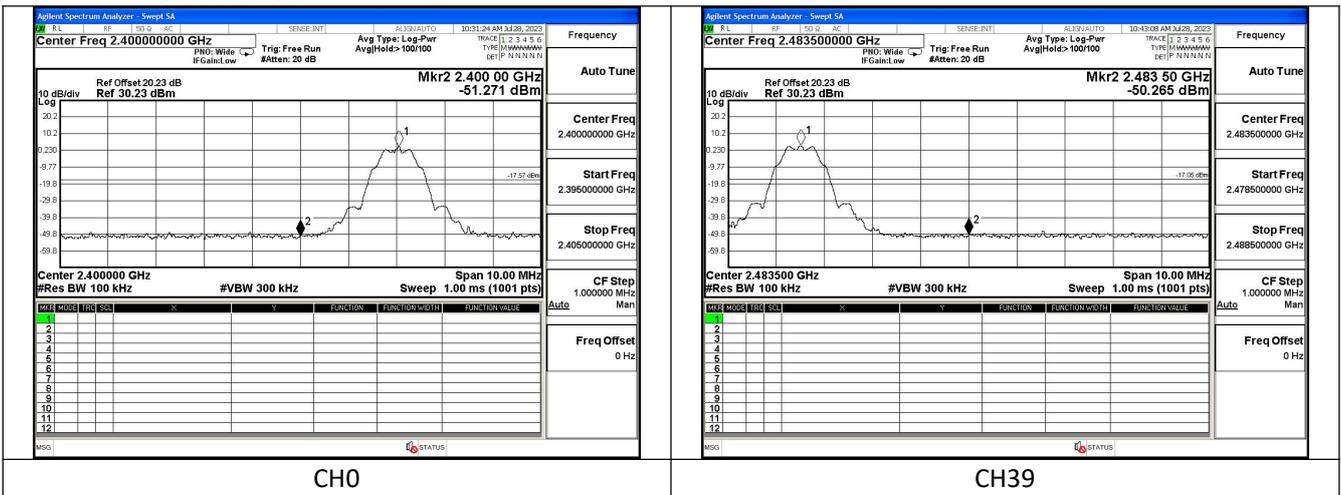
Test Mode: GFSK (LE 1Mbps)



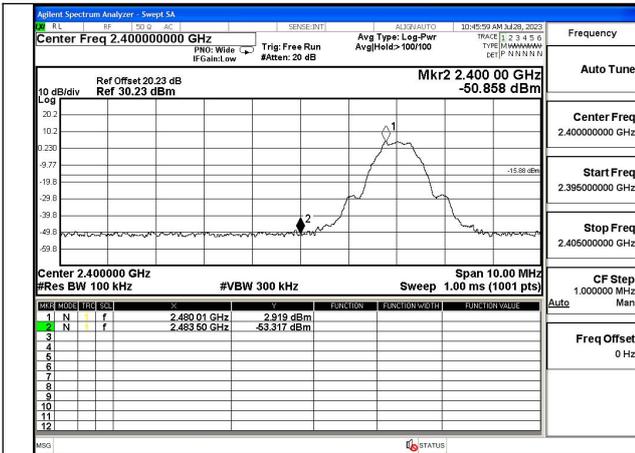
Test Mode: GFSK (LE 2Mbps)



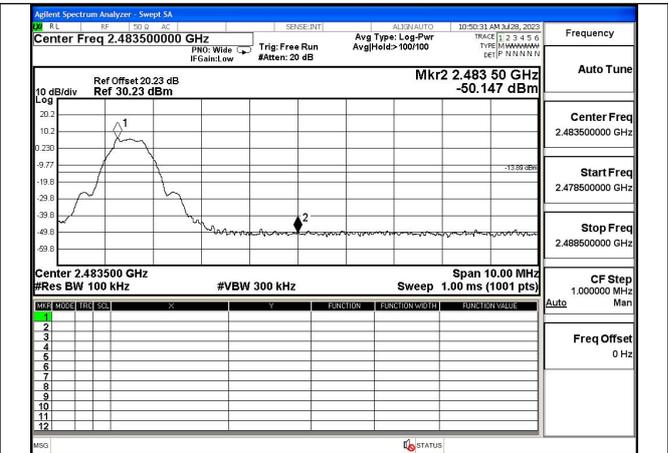
Test Mode: Coded 125K



Test Mode: Coded 500K



CHO



CH39

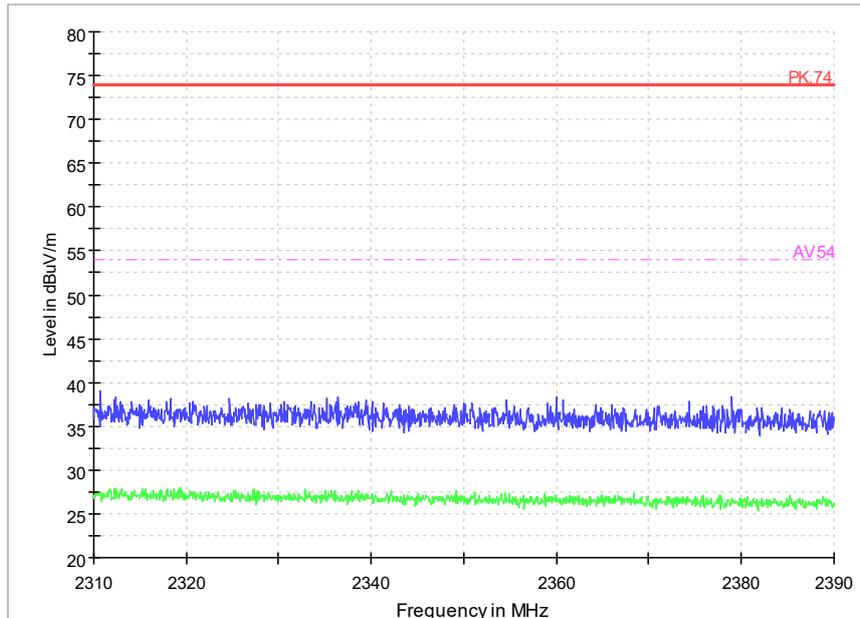
APPENDIX B – TEST DATA OF RADIATED EMISSION

Note1: The worst channel results are reflected in the report.

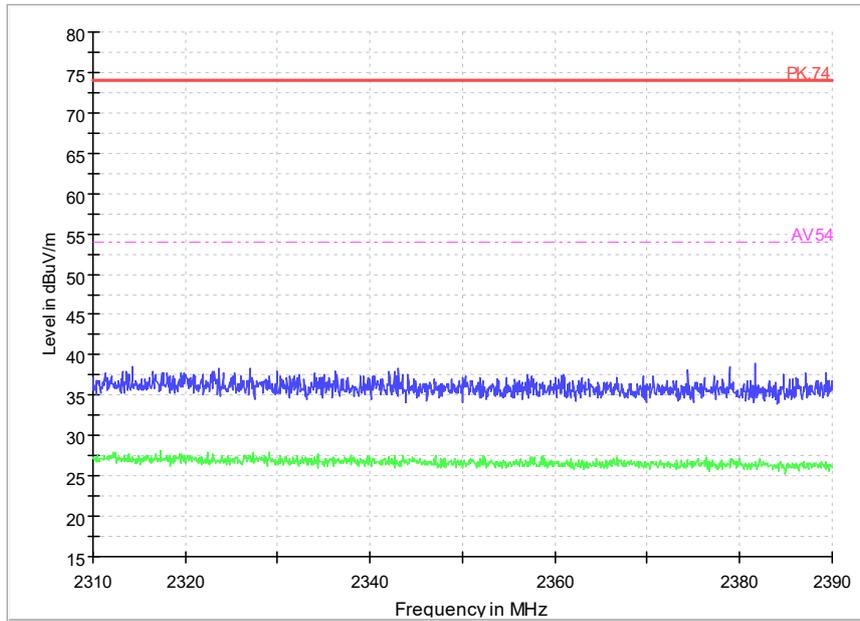
Note2: The scanned graph represents the maximum of both horizontal and vertical polarizations and is not a single horizontal or vertical polarization scan.

Radiated Emission Band Edge

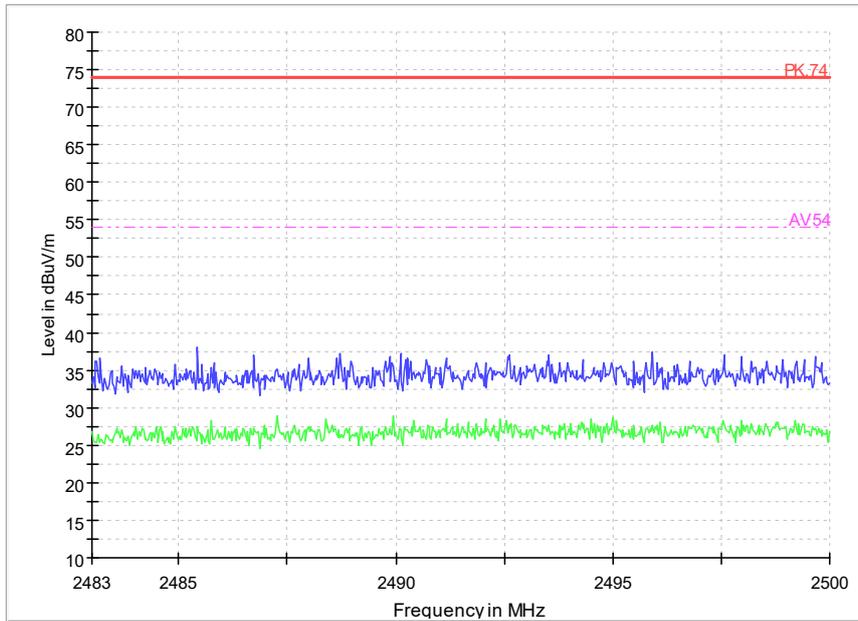
After comparison,the worst case attitude is EUT lay down.



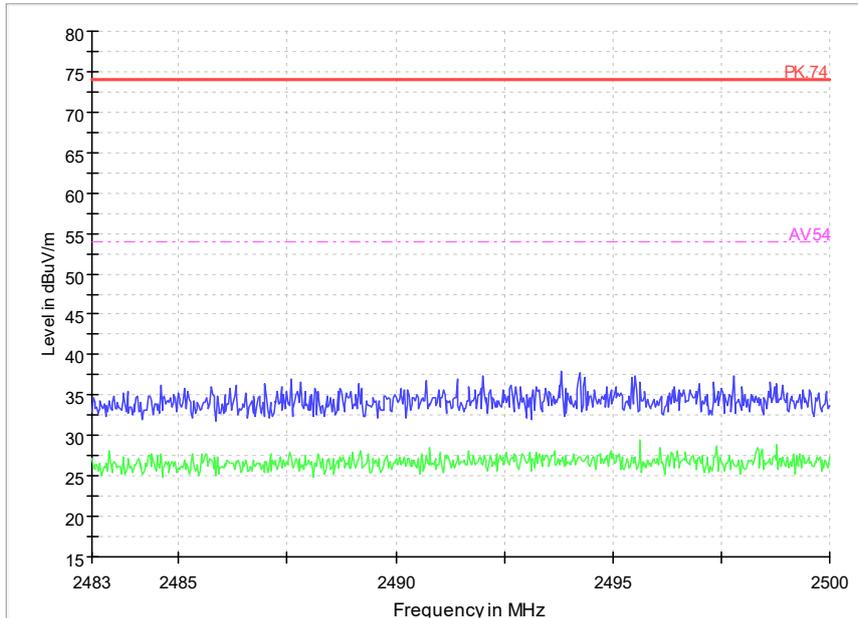
Carrier frequency (MHz): 2402
Channel No.:0
Test Mode: GFSK (LE 1Mbps)
Polarity: Vertical



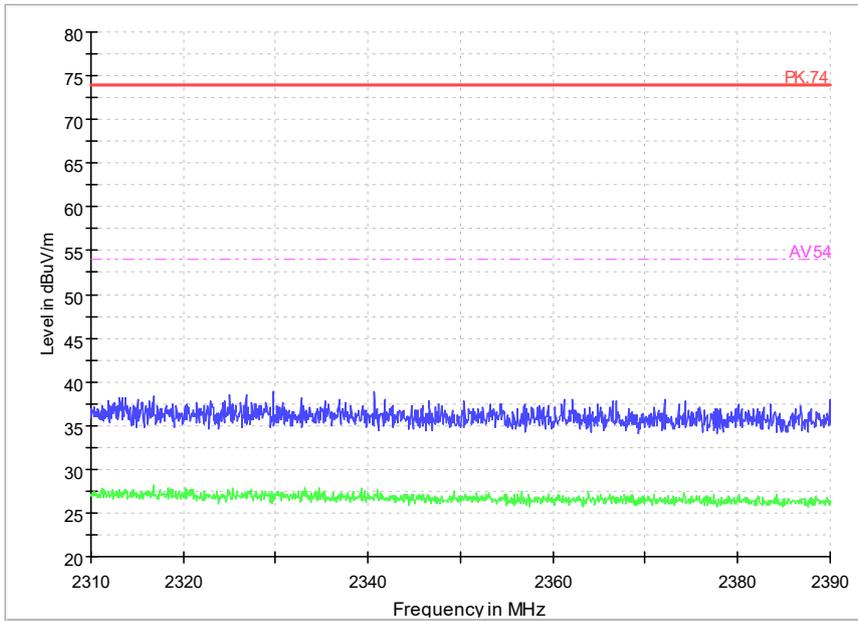
Carrier frequency (MHz): 2402
Channel No.:0
Test Mode: GFSK (LE 1Mbps)
Polarity: Horizontal



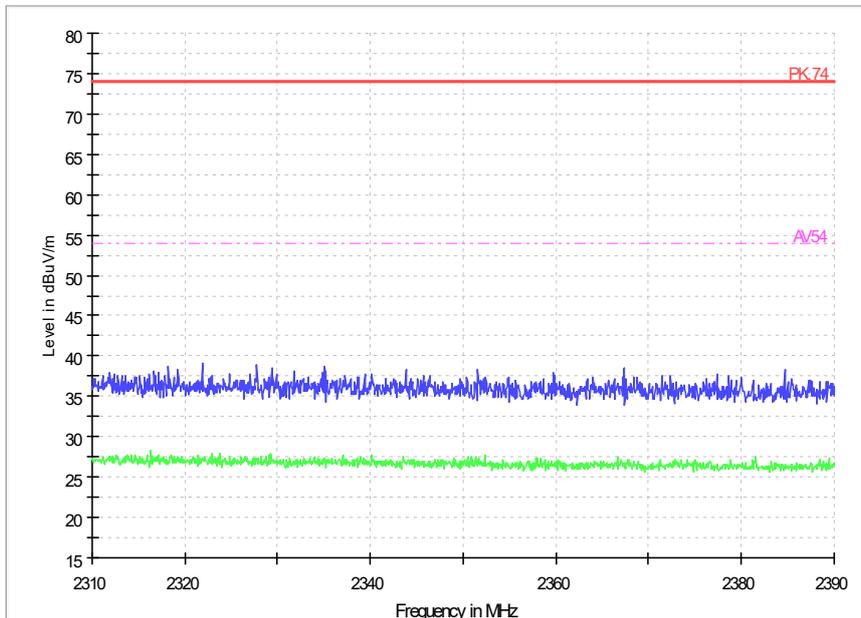
Carrier frequency (MHz): 2480
 Channel No.:39
 Test Mode: GFSK (LE 1Mbps)
 Polarity: Vertical



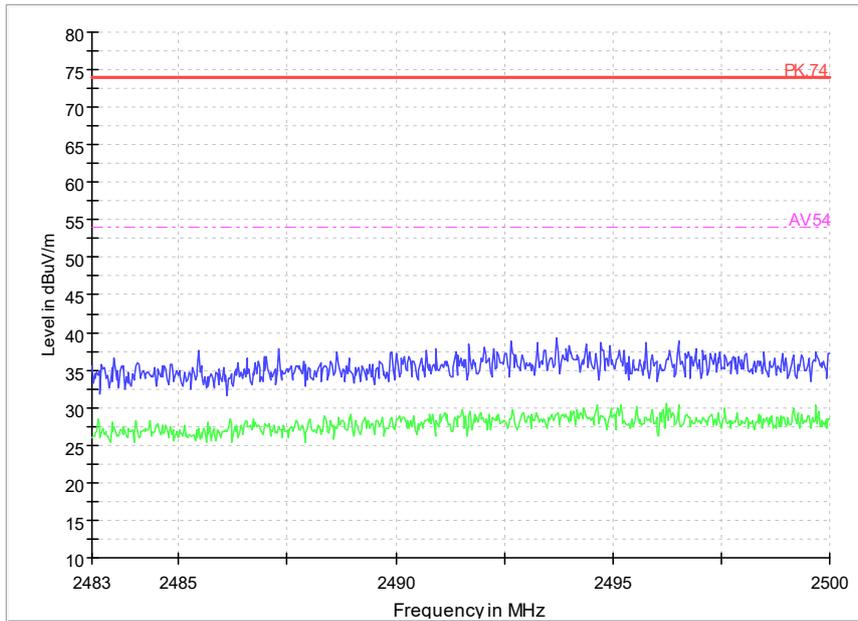
Carrier frequency (MHz): 2480
 Channel No.:39
 Test Mode: GFSK (LE 1Mbps)
 Polarity: Horizontal



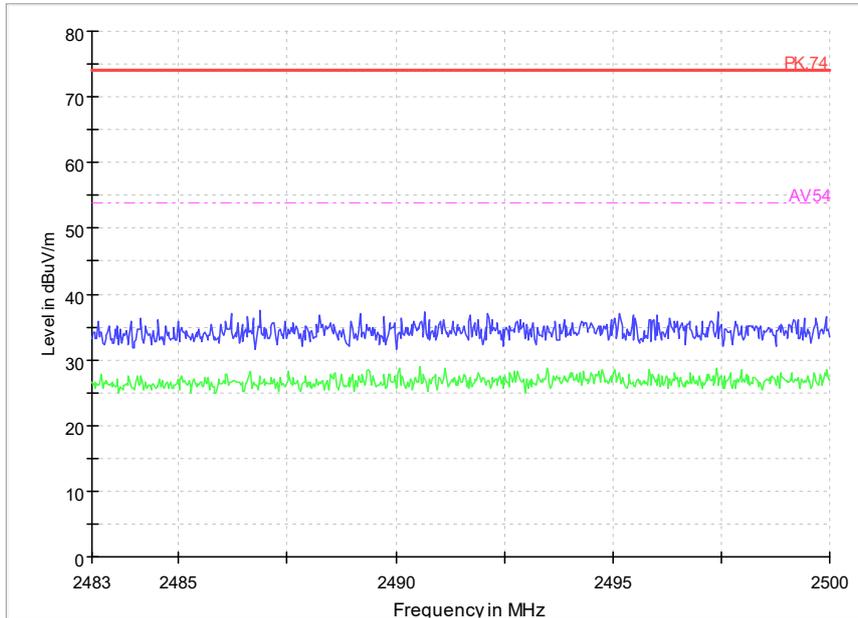
Carrier frequency (MHz): 2402
Channel No.:0
Test Mode: GFSK (LE 2Mbps)
Polarity: Vertical



Carrier frequency (MHz): 2402
Channel No.:0
Test Mode: GFSK (LE 2Mbps)
Polarity: Horizontal



Carrier frequency (MHz): 2480
 Channel No.:39
 Test Mode: GFSK (LE 2Mbps)
 Polarity: Vertical



Carrier frequency (MHz): 2480
 Channel No.:39
 Test Mode: GFSK (LE 2Mbps)
 Polarity: Horizontal

Radiated Emission

After comparison, the worst case attitude is EUT lay down.

Sample Calculations

After comparison, the worst case attitude is EUT lay down.

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: $(9.22 \text{ dB}\mu\text{V/m}) = (27.62 \text{ dBuV}) + (-18.4 \text{ dB/m})$, the corresponding frequency is 45.035MHz.

For GFSK (LE 1Mbps)

Channel No.:0

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
45.035	9.22	-18.4	27.62	Vertical	40	30.78
87.23	8.91	-19.8	28.71	Vertical	40	31.09
98.5305	7.77	-18.7	26.47	Vertical	43.5	35.73
296.5075	8.97	-15.9	24.87	Vertical	46	37.03
539.5895	13.97	-9.6	23.57	Vertical	46	32.03
930.451	21.04	-3	24.04	Vertical	46	24.96

Channel No.:19

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
34.365	7.68	-19.6	27.28	Vertical	40	32.32
87.909	10.18	-19.7	29.88	Vertical	40	29.82
110.122	7.45	-18.9	26.35	Vertical	43.5	36.05
309.4085	9.27	-15.5	24.77	Vertical	46	36.73
546.9615	14.04	-9.5	23.54	Vertical	46	31.97
946.65	21.02	-2.9	23.92	Vertical	46	24.98

Channel No.:39

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
52.3585	8.79	-18.5	27.29	Vertical	40	31.21
86.26	9.03	-20	29.03	Vertical	40	30.97
105.2235	7.48	-18.8	26.28	Vertical	43.5	36.02
209.8865	6.57	-18.5	25.07	Vertical	43.5	36.93
543.7605	13.91	-9.5	23.41	Vertical	46	32.09
955.5255	21.16	-2.8	23.96	Vertical	46	24.84

For GFSK (LE 2Mbps)

Channel No.:0

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
44.356	9.08	-18.4	27.48	Vertical	40	30.92
87.5695	9.73	-19.7	29.43	Vertical	40	30.27
98.676	8.71	-18.7	27.41	Vertical	43.5	34.79
298.011	9.06	-15.9	24.96	Vertical	46	36.94
542.16	13.94	-9.6	23.54	Vertical	46	32.06
951.015	21.05	-2.8	23.85	Vertical	46	24.95

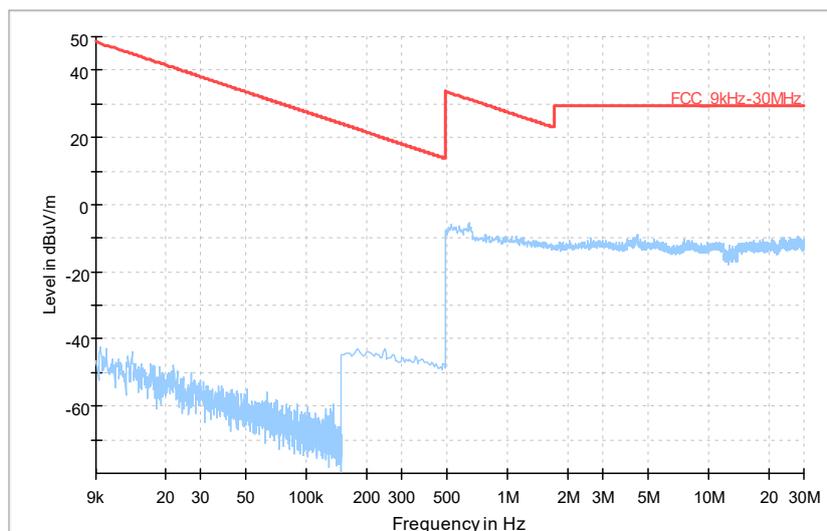
Channel No.:19

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
46.102	8.6	-18.4	27	Vertical	40	31.4
87.5695	9.66	-19.7	29.36	Vertical	40	30.34
104.69	7.71	-18.8	26.51	Vertical	43.5	35.79
211.778	6.66	-18.5	25.16	Vertical	43.5	36.84
538.9105	14.04	-9.6	23.64	Vertical	46	31.96
926.8135	21.16	-3	24.16	Vertical	46	24.84

Channel No.:39

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
39.894	8.63	-18.6	27.23	Vertical	40	31.37
87.5695	9.92	-19.7	29.62	Vertical	40	30.08
110.025	7.3	-18.9	26.2	Vertical	43.5	36.2
305.868	9.14	-15.7	24.84	Vertical	46	36.86
553.509	14.24	-9.3	23.54	Vertical	46	31.76
950.433	21.12	-2.8	23.92	Vertical	46	24.88

Full Spectrum



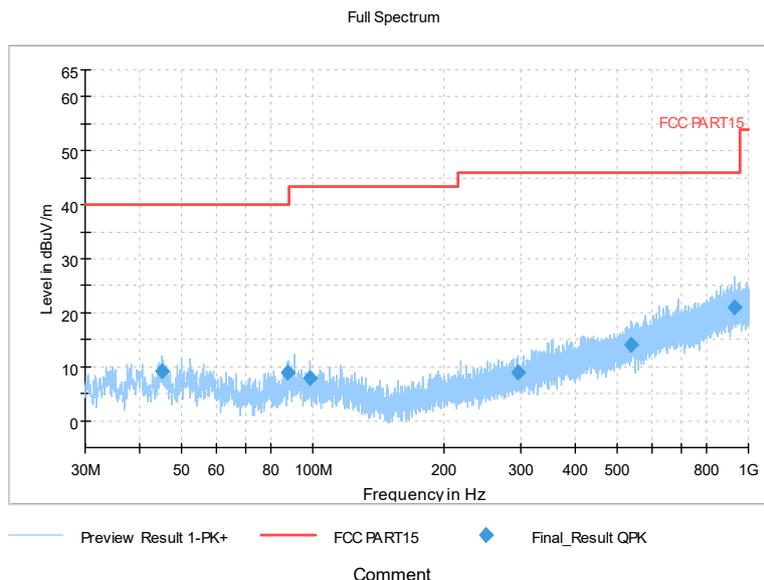
◆ Preview Result 1-PK+ Final_Result QPK
◆ FCC_9kHz-30MHz Final_Result CAV

Frequency Range: 9kHz -30MHz

Detector: QP mode

Note: The relevant tests have been performed in order to verify in which mode would have the worst features, the result show above is the worst case.

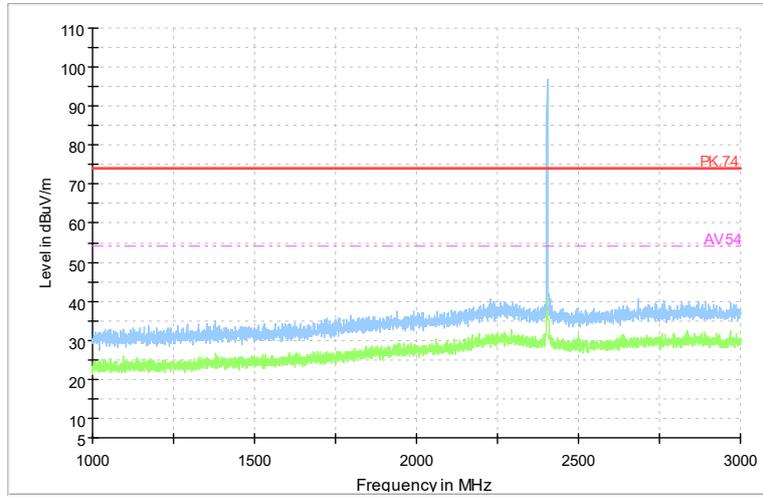
Channel No.:0



Frequency Range: 30MHz-1GHz
 Detector: Av mode and PK mode

Modulation type: GFSK (LE 1Mbps)

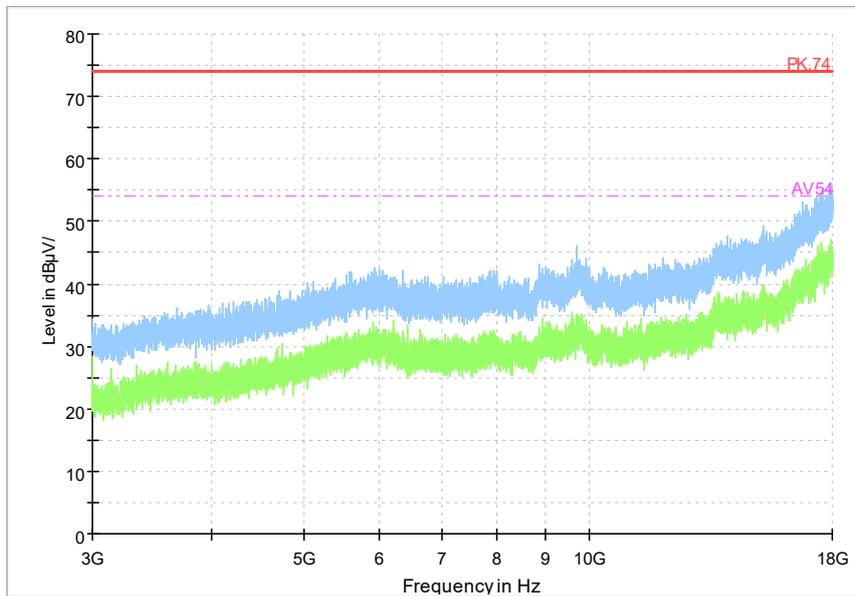
Full Spectrum



Comment

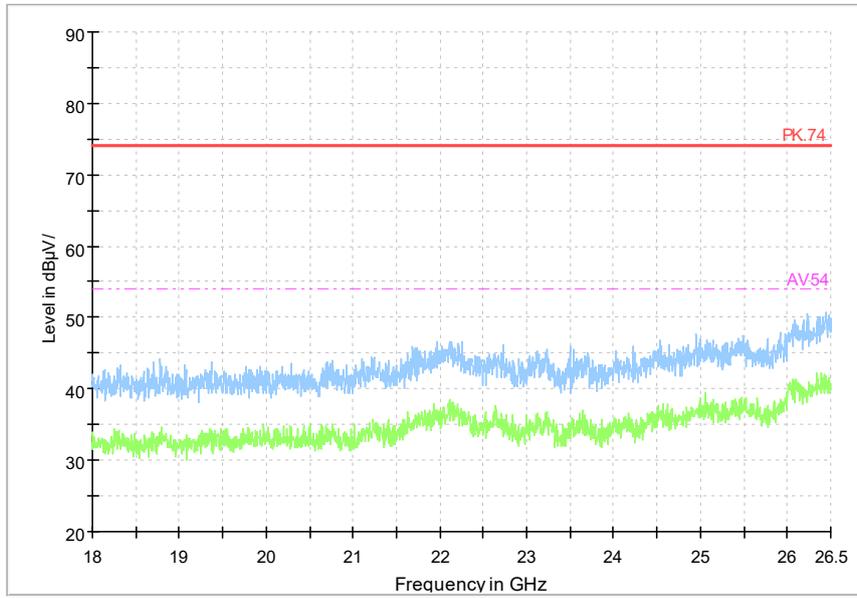
Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 1Mbps)

Full Spectrum



Frequency Range: 3GHz-18GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 1Mbps)

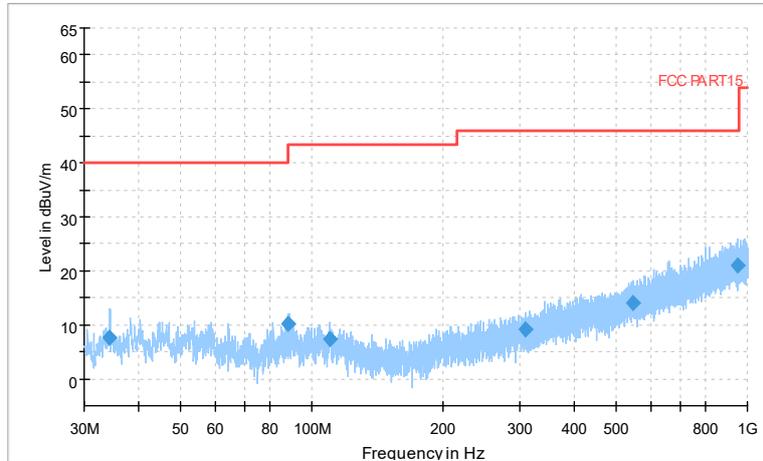
Full Spectrum



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

Channel No.:19

Full Spectrum

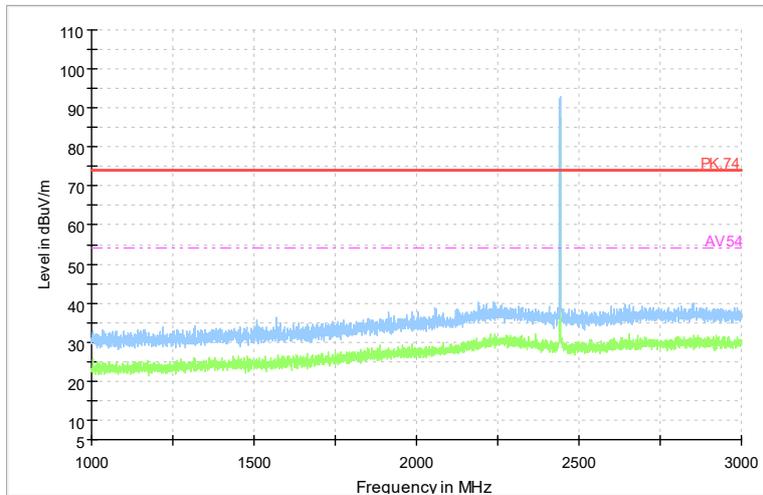


Preview Result 1-PK+ FCC PART15 Final_Result QPK

Comment

Frequency Range: 30MHz-1GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 1Mbps)

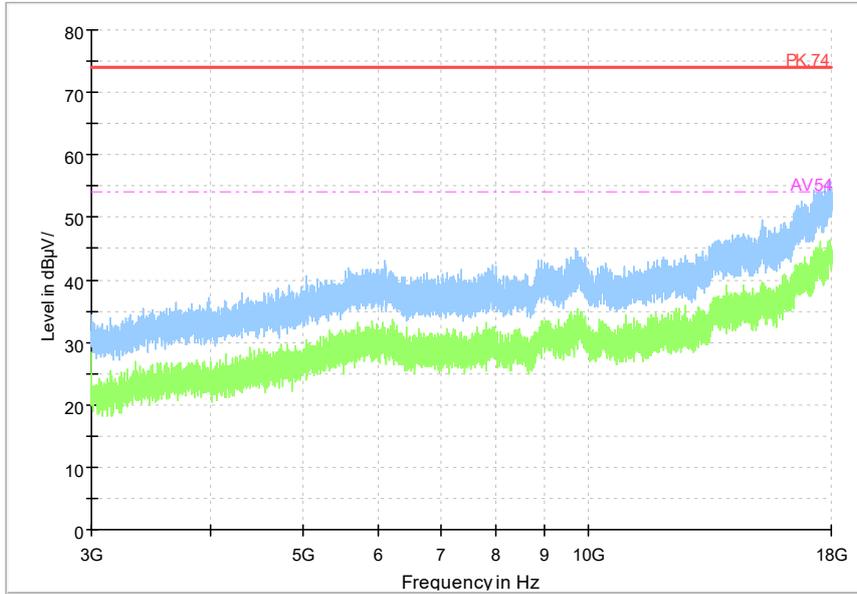
Full Spectrum



Comment

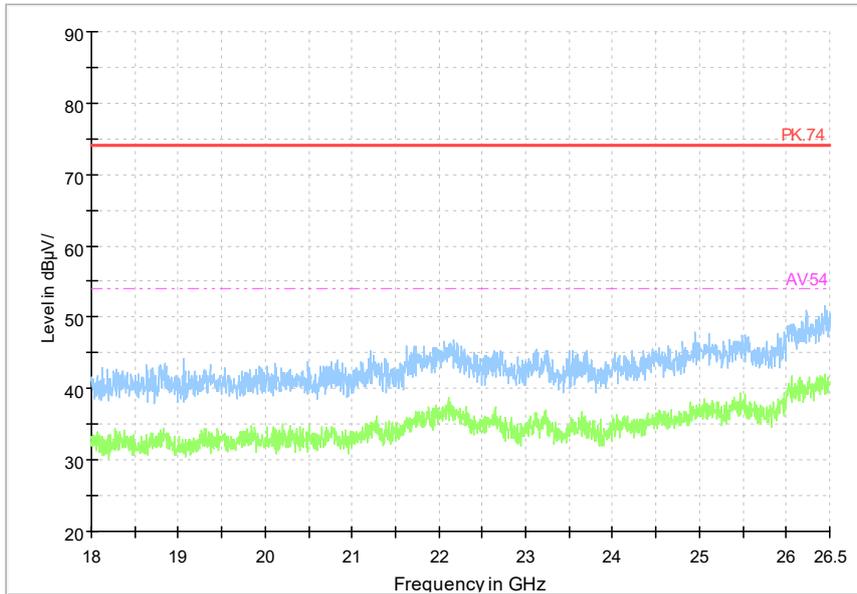
Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 1Mbps)

Full Spectrum



Frequency Range: 3GHz-18GHz
 Detector: Av mode and PK mode
 Modulation type: GFSK (LE 1Mbps)

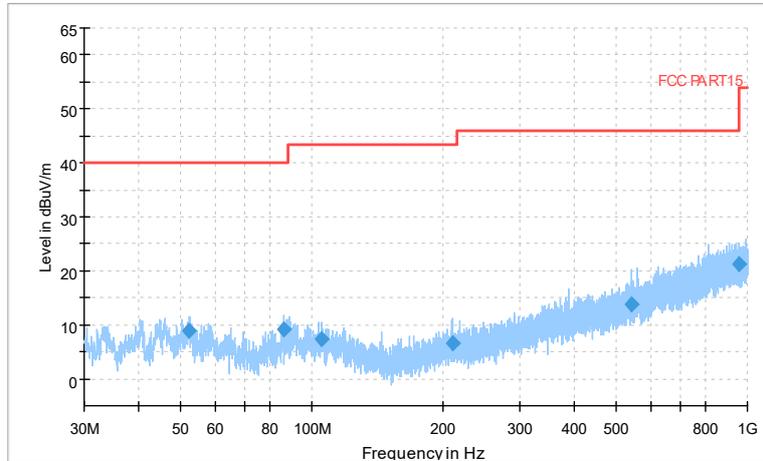
Full Spectrum



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

Channel No.:39

Full Spectrum

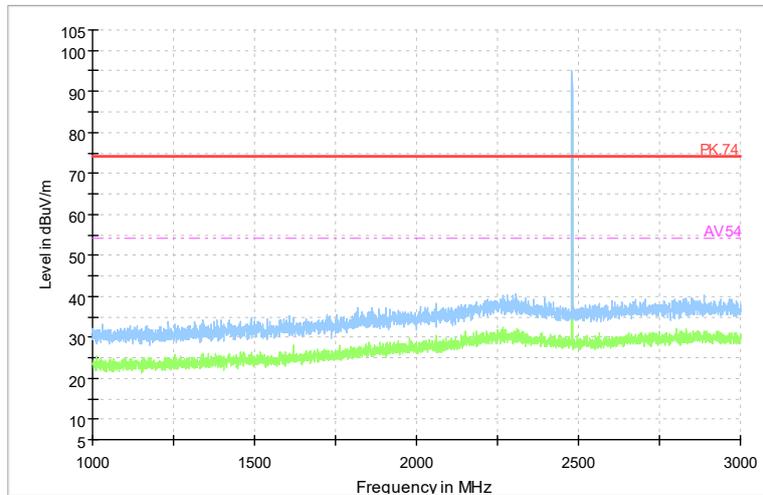


Preview Result 1-PK+ FCC PART15 Final_Result QPK

Comment

Frequency Range: 30MHz-1GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 1Mbps)

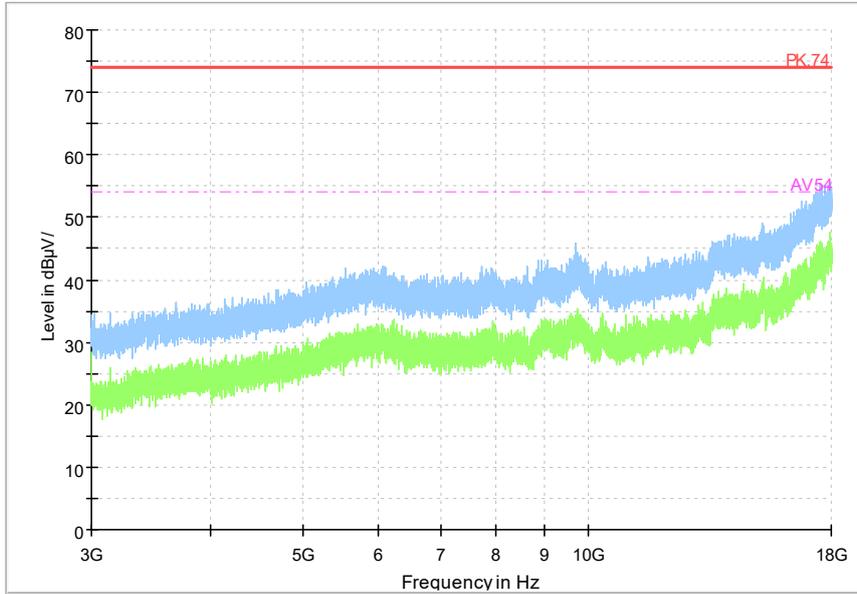
Full Spectrum



Comment

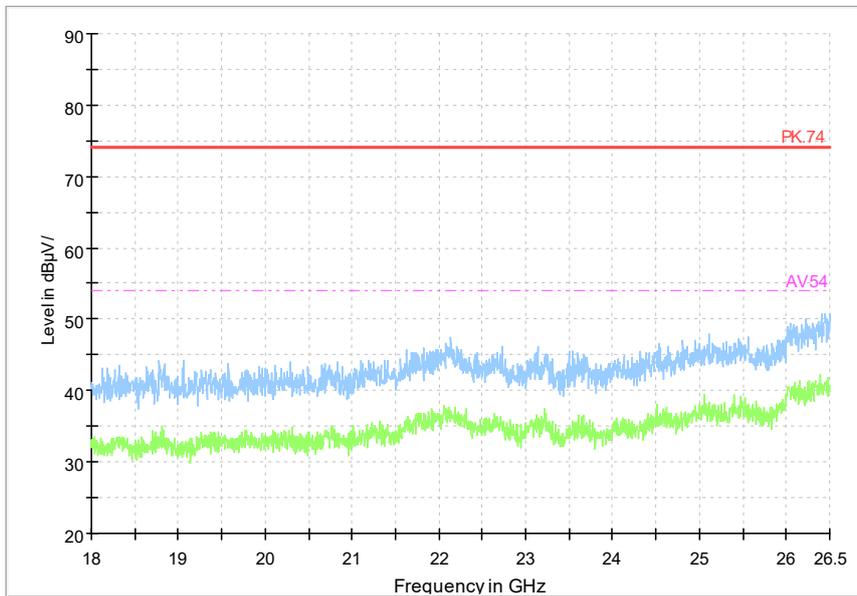
Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 1Mbps)

Full Spectrum



Frequency Range: 3GHz-18GHz
 Detector: Av mode and PK mode
 Modulation type: GFSK (LE 1Mbps)

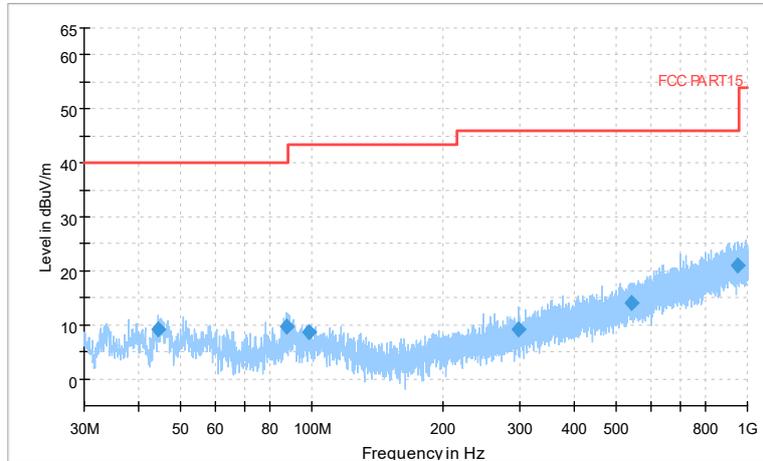
Full Spectrum



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

Channel No.:0

Full Spectrum

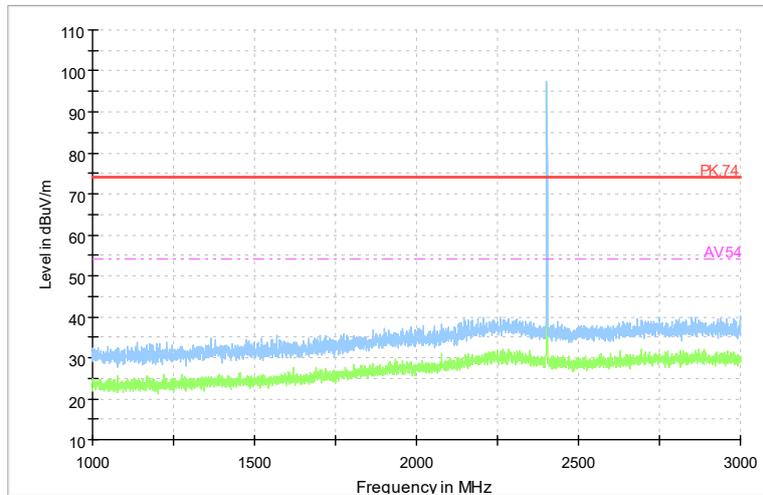


Preview Result 1-PK+ FCC PART15 Final_Result QPK

Comment

Frequency Range: 30MHz-1GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 2Mbps)

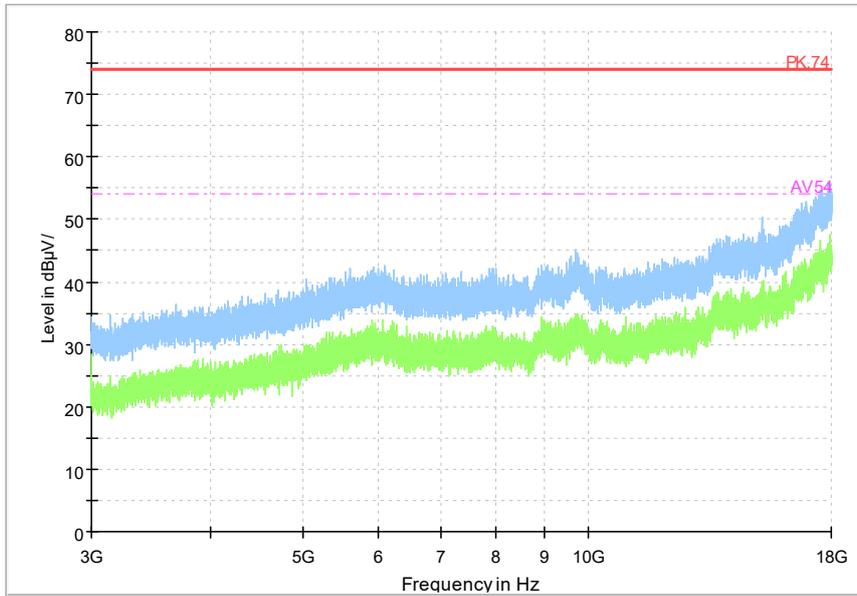
Full Spectrum



Comment

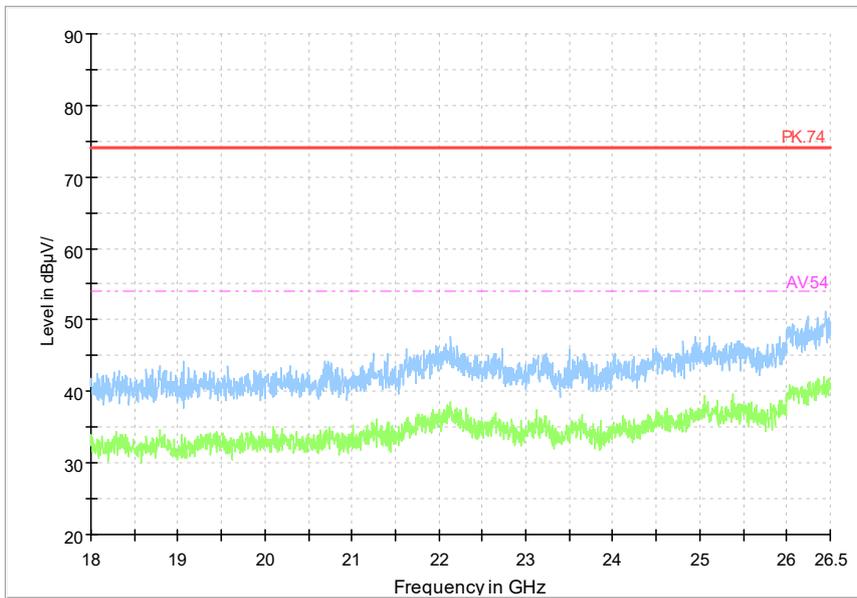
Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 2Mbps)

Full Spectrum



Frequency Range: 3GHz-18GHz
 Detector: Av mode and PK mode
 Modulation type: GFSK (LE 2Mbps)

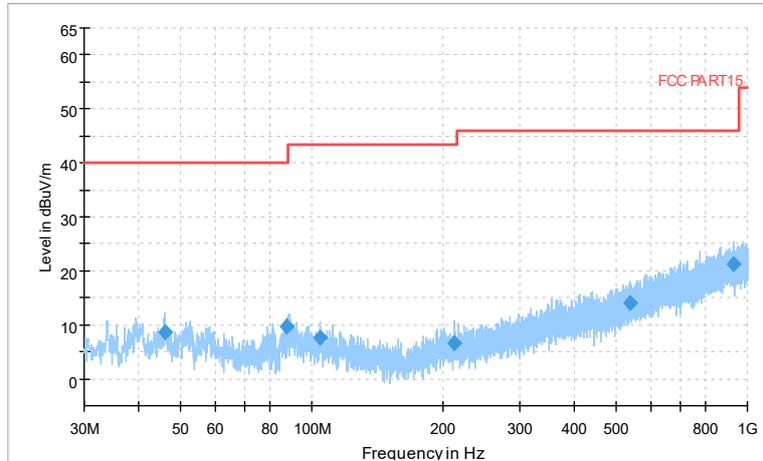
Full Spectrum



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

Channel No.:19

Full Spectrum

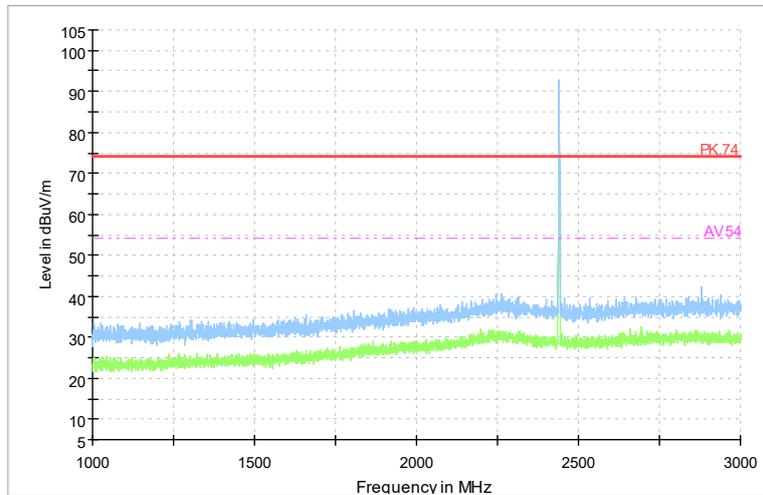


Preview Result 1-PK+ FCC PART15 Final_Result QPK

Comment

Frequency Range: 30MHz-1GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 2Mbps)

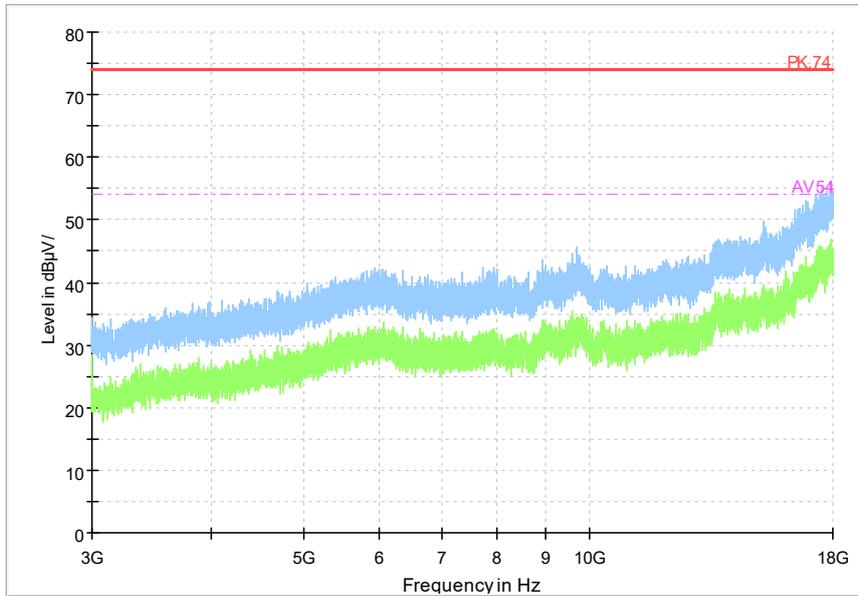
Full Spectrum



Comment

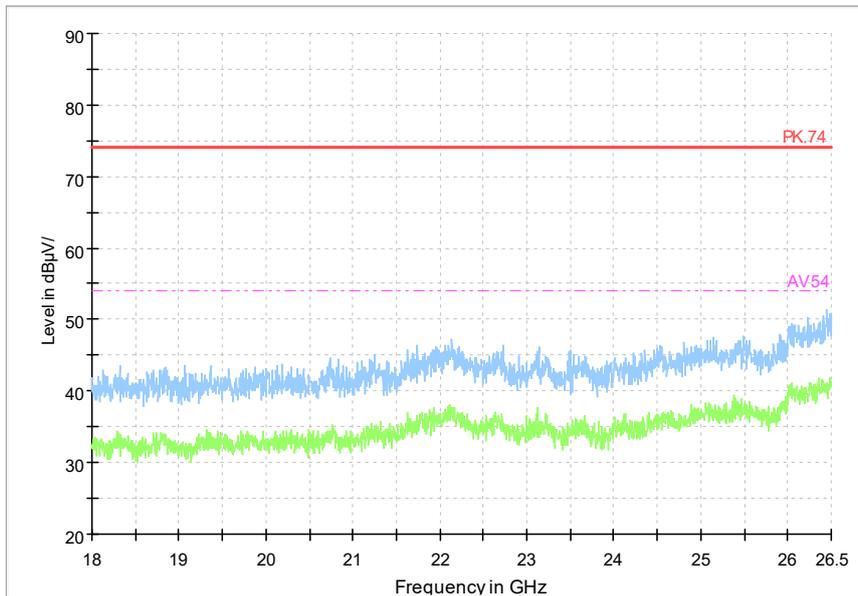
Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 2Mbps)

Full Spectrum



Frequency Range: 3GHz-18GHz
 Detector: Av mode and PK mode
 Modulation type: GFSK (LE 2Mbps)

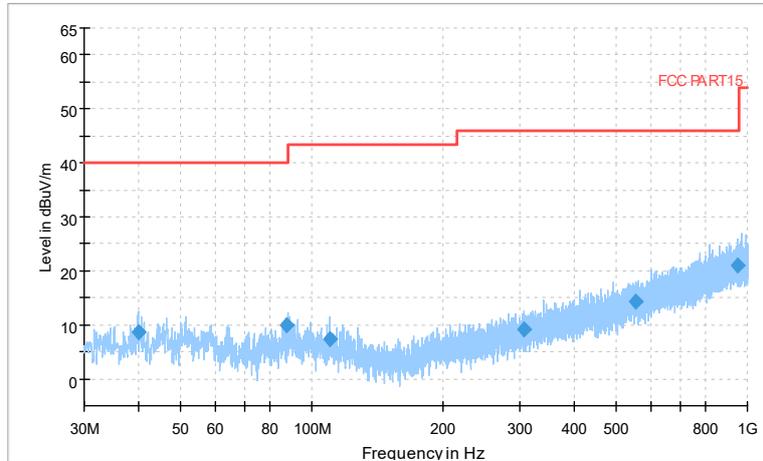
Full Spectrum



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

Channel No.:39

Full Spectrum

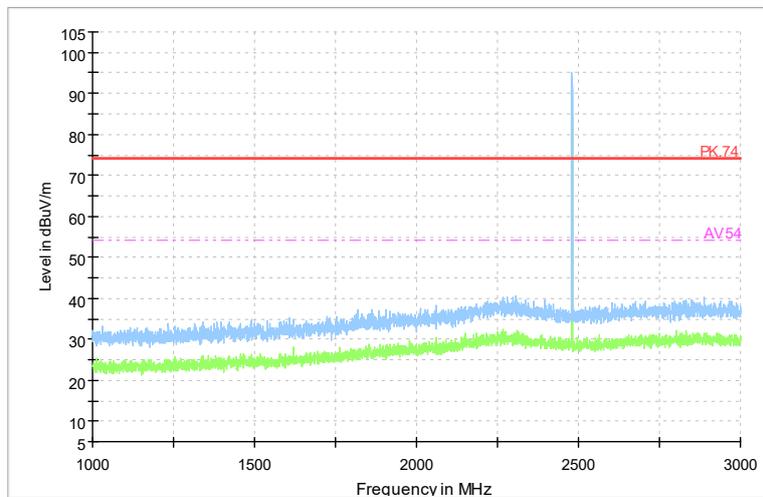


Preview Result 1-PK+ FCC PART15 Final_Result QPK

Comment

Frequency Range: 30MHz-1GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 2Mbps)

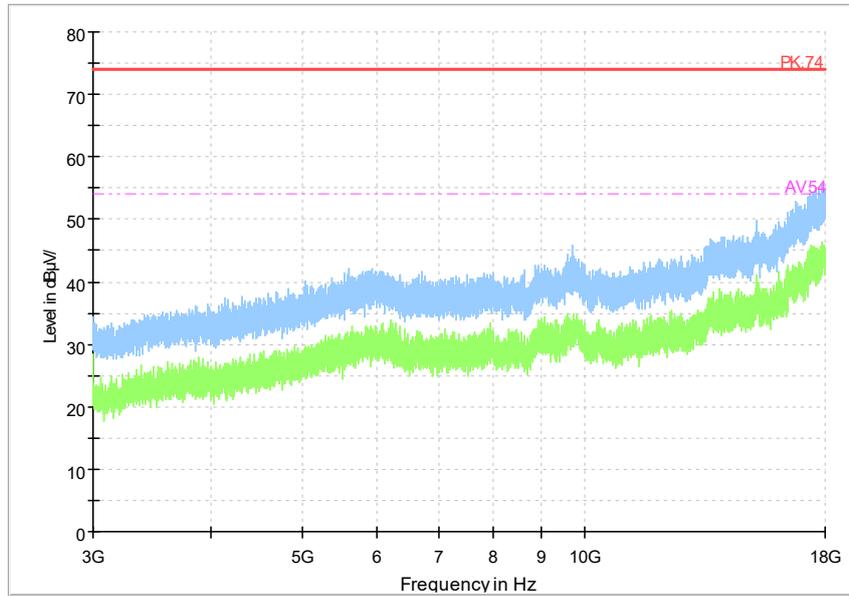
Full Spectrum



Comment

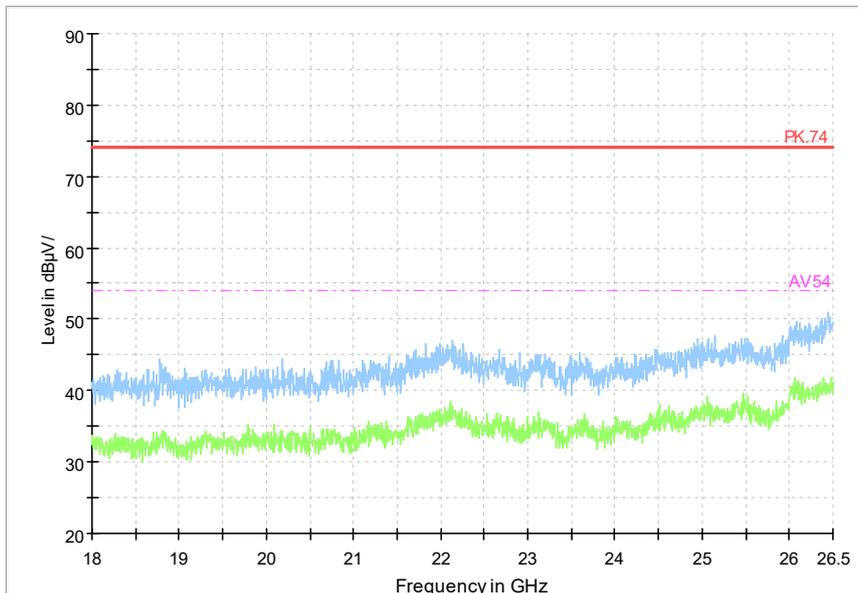
Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 2Mbps)

Full Spectrum



Frequency Range: 3GHz-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)

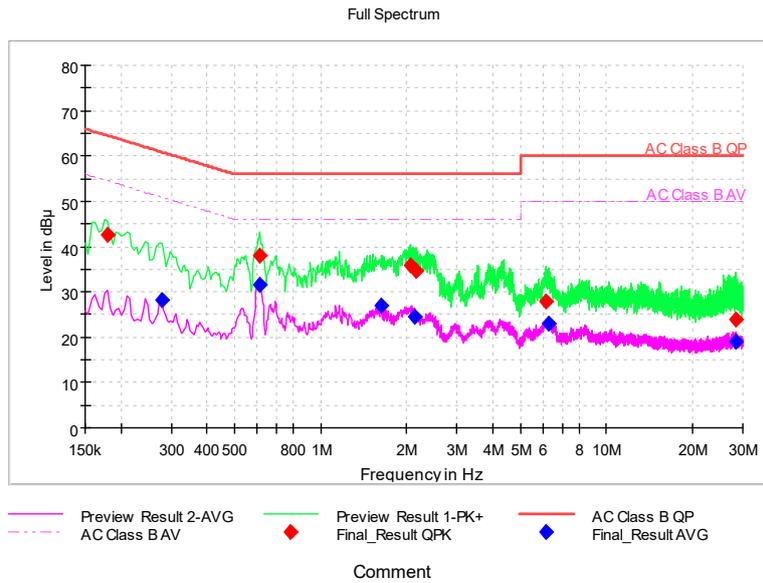
AC Power line Conducted Emission

A "reference path loss" Corr.(dB) is established and the $L_{cable}+ATT+VDF$ 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:

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

Sample calculation: $(42.47dB\mu V) = (12.67dB\mu V) + (29.8dB)$, the corresponding frequency is 0.17985MHz.



L+N Line

MEASUREMENT RESULT:

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	Pmea QuasiPeak (dBμV)	Pmea Average (dBμV)
0.17985	42.47	---	64.49	22.02	L1	29.8	12.67	---
0.277929	---	28.08	50.88	22.8	L1	29.8	---	-1.72
0.610543	38.12	---	56	17.88	L1	29.8	8.32	---
0.614807	---	31.68	46	14.32	L1	29.8	---	1.88
1.629707	---	26.88	46	19.12	L1	29.8	---	-2.92
2.064664	36.01	---	56	19.99	N	29.8	6.21	---
2.128629	---	24.48	46	21.52	N	29.8	---	-5.32
2.154214	34.76	---	56	21.24	N	29.8	4.96	---
6.115736	27.91	---	60	32.09	N	29.9	-1.99	---
6.286307	---	22.9	50	27.1	L1	29.9	---	-7
28.209	24.04	---	60	35.96	N	30.1	-6.06	---
28.366779	---	19.03	50	30.97	N	30.1	---	-11.07

---End of Test Report---