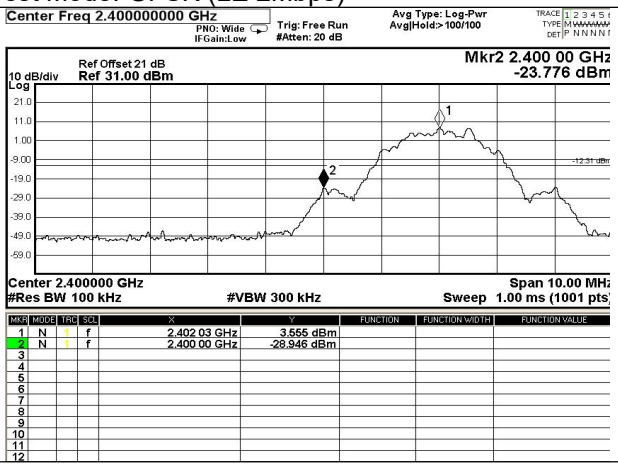
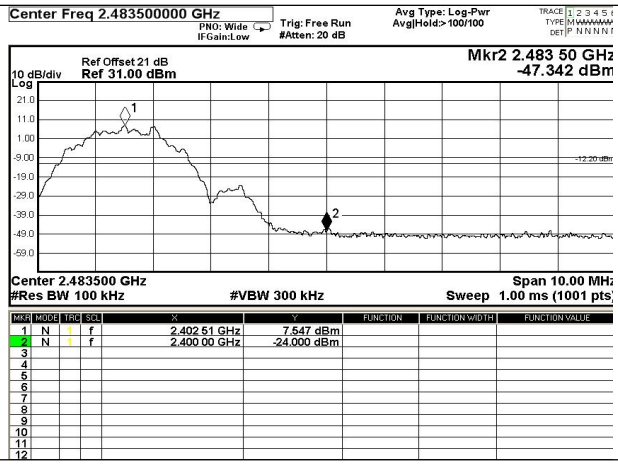
Test Mode: GFSK (LE 2Mbps)

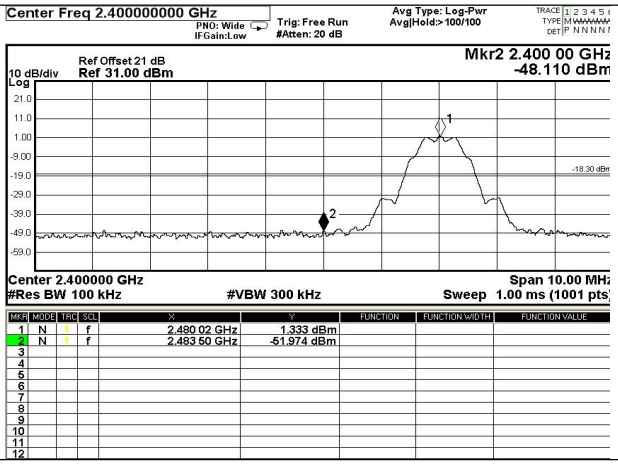


CH0

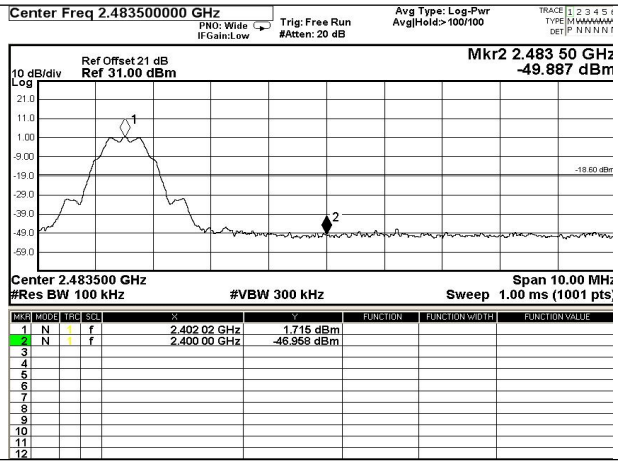


CH39

Test Mode: Coded 125K

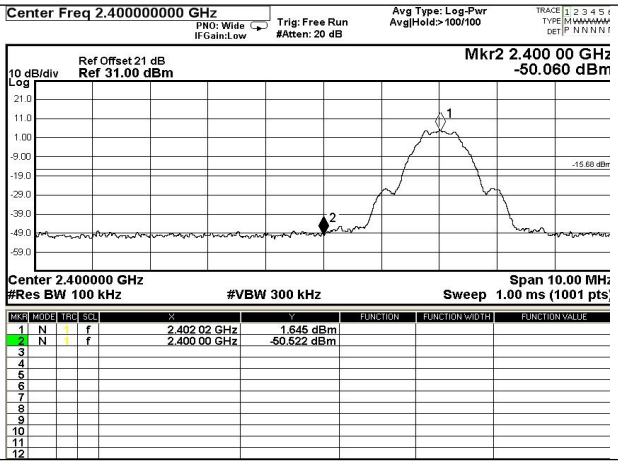


CH0

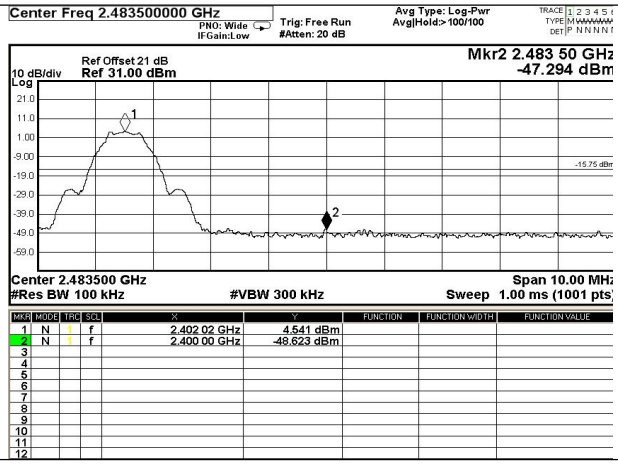


CH39

Test Mode: Coded 500K



CH0



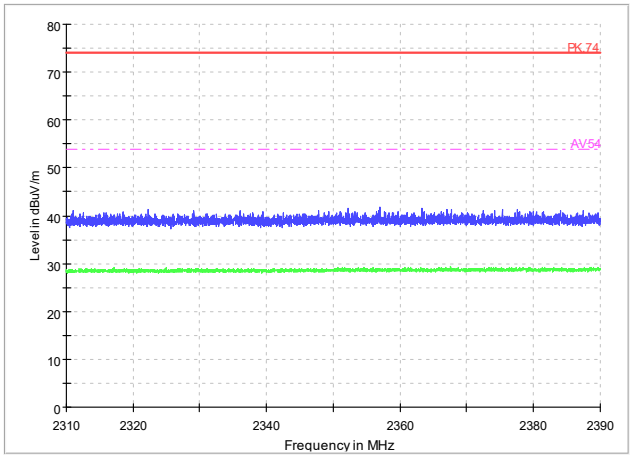
CH39

APPENDIX B – TEST DATA OF RADIATED EMISSION

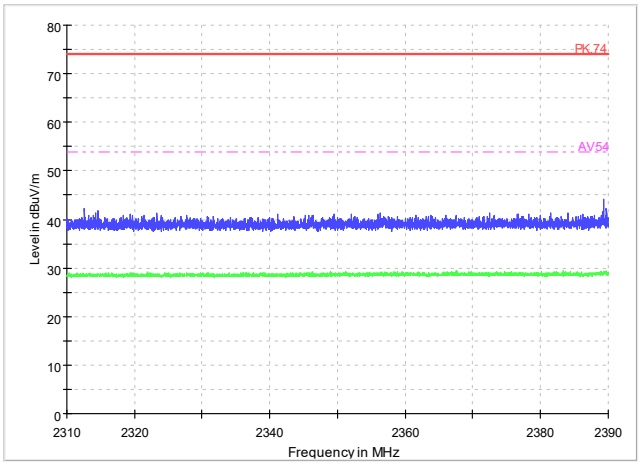
Note: The worst channel results are reflected in the report.

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

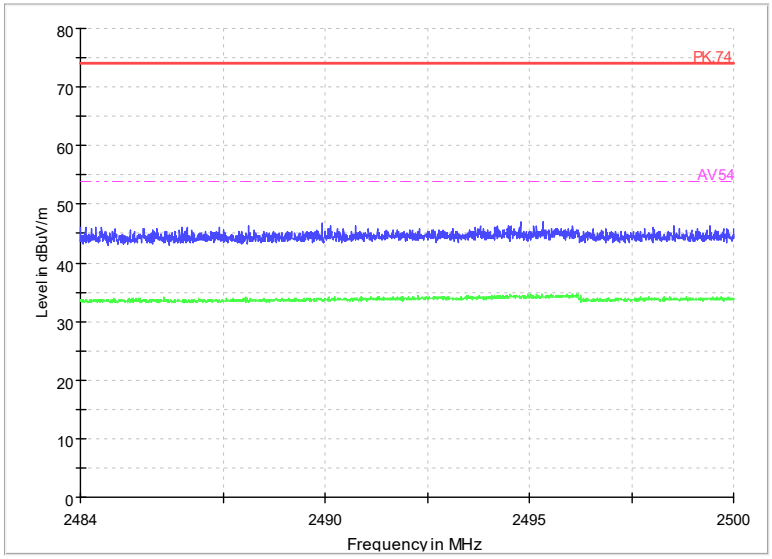
Radiated Emission Band Edge



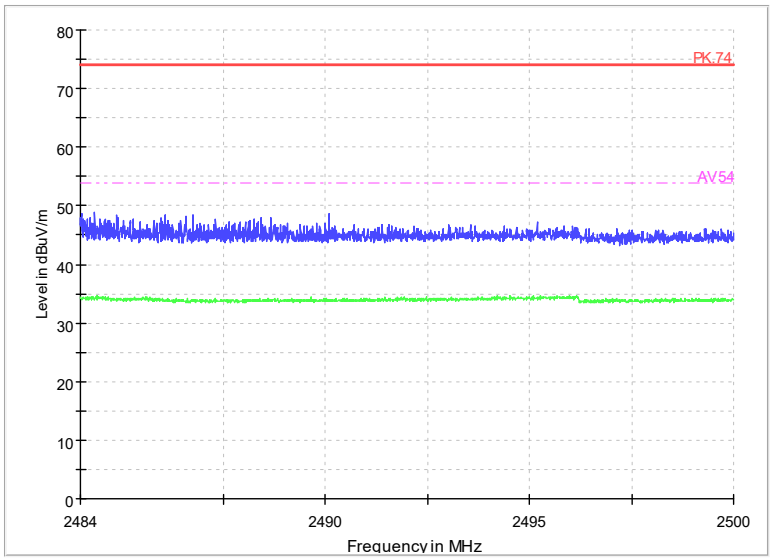
Carrier frequency (MHz): 2402
Channel No.:0
Test Mode: GFSK (LE 1Mbps)
Polarity: Vertical



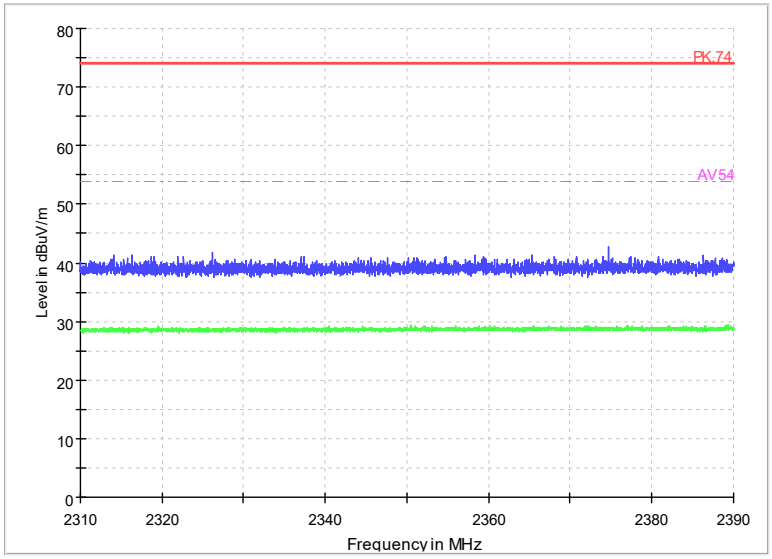
Carrier frequency (MHz): 2402
Channel No.:0
Test Mode: GFSK (LE 1Mbps)
Polarity: Horizontal



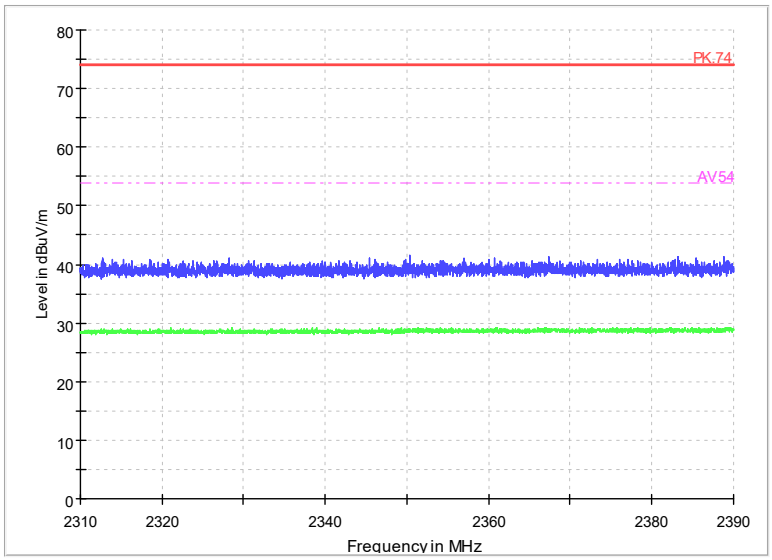
Carrier frequency (MHz): 2480
Channel No.:39
Test Mode: GFSK (LE 1Mbps)
Polarity: Vertical



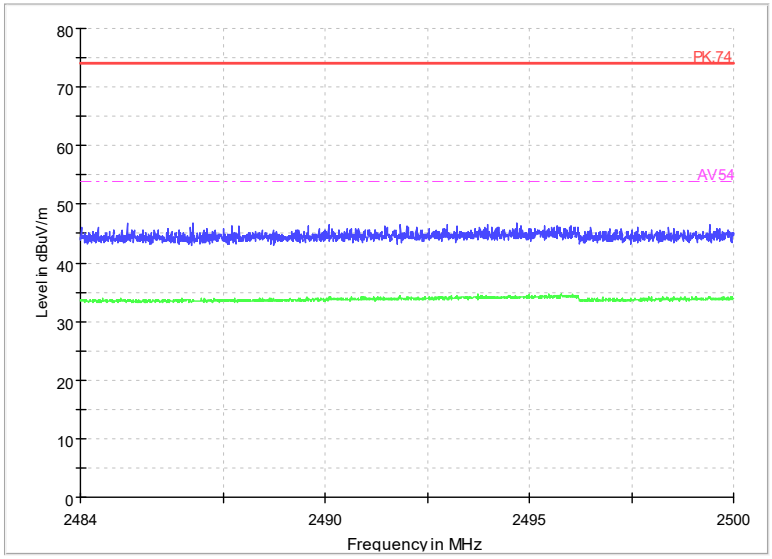
Carrier frequency (MHz): 2480
Channel No.:39
Test Mode: GFSK (LE 1Mbps)
Polarity: Horizontal



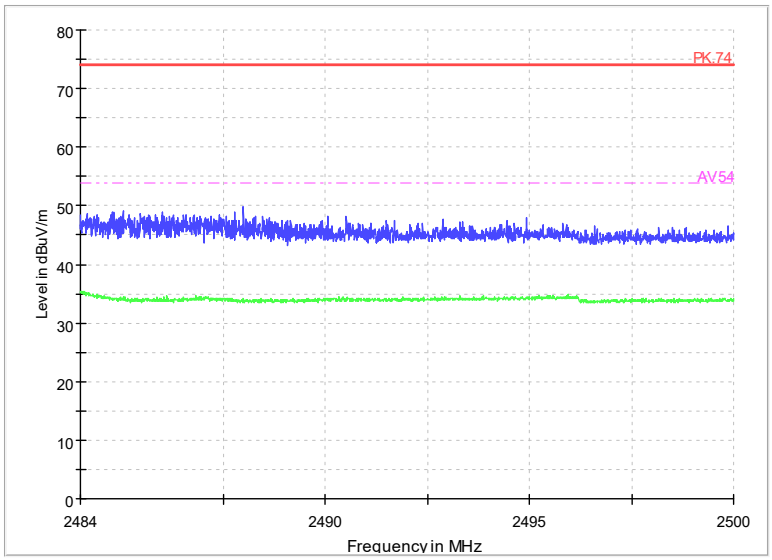
Carrier frequency (MHz): 2402
Channel No.:0
Test Mode: GFSK (LE 2Mbps)
Polarity: Vertical



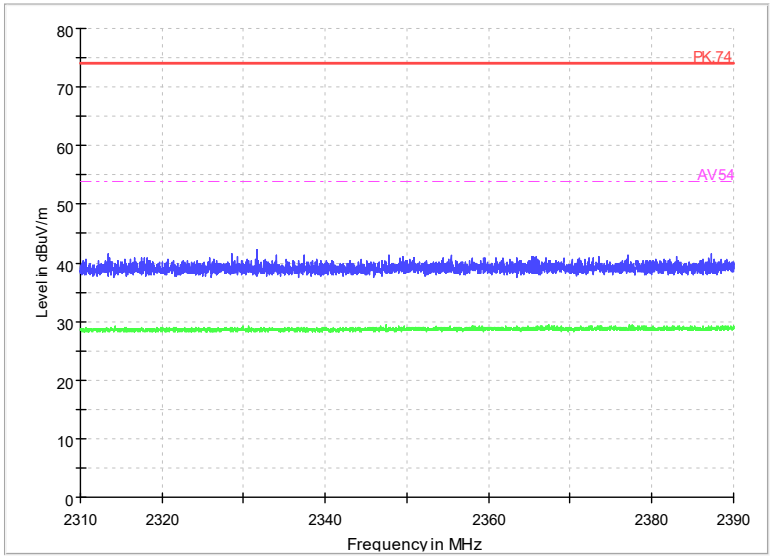
Carrier frequency (MHz): 2402
Channel No.:0
Test Mode: GFSK (LE 2Mbps)
Polarity: Horizontal



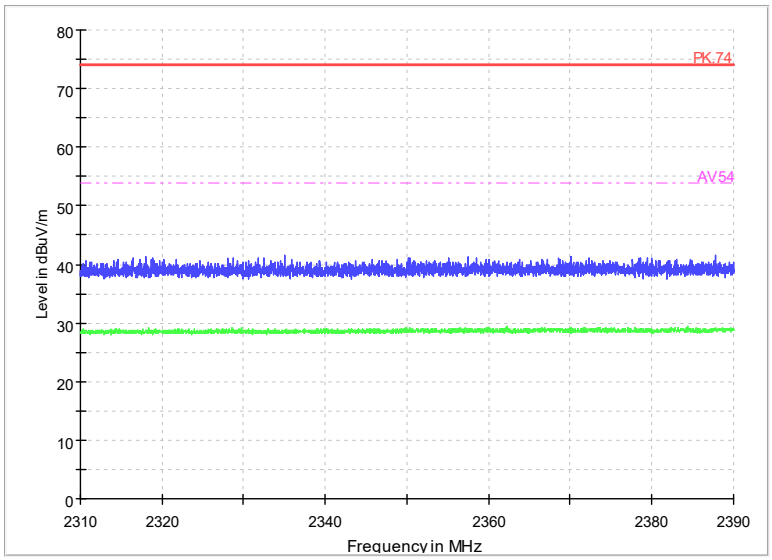
Carrier frequency (MHz): 2480
Channel No.:39
Test Mode: GFSK (LE 2Mbps)
Polarity: Vertical



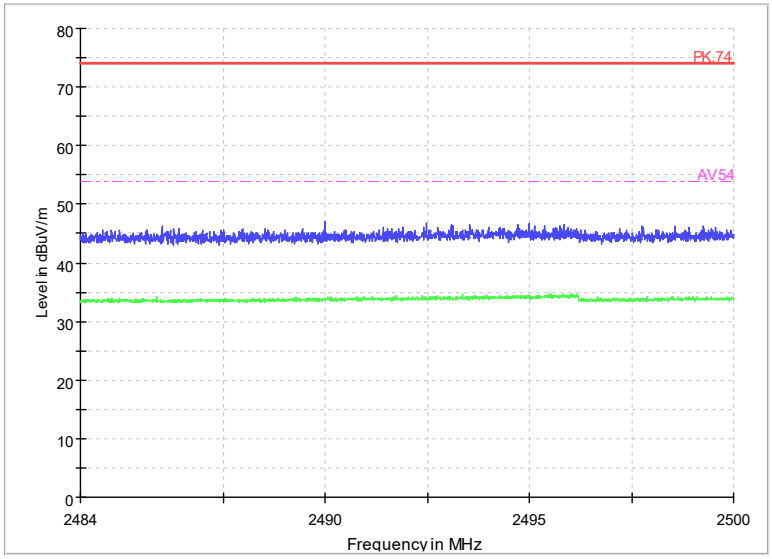
Carrier frequency (MHz): 2480
Channel No.:39
Test Mode: GFSK (LE 2Mbps)
Polarity: Horizonta



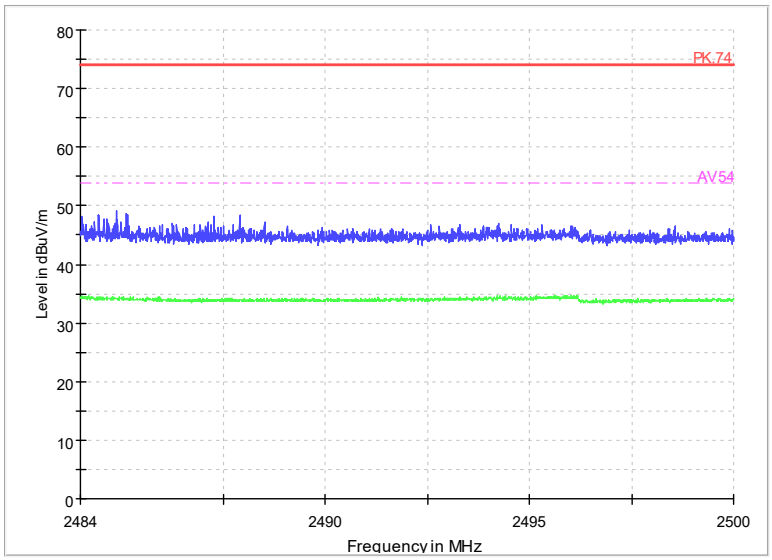
Carrier frequency (MHz): 2402
Channel No.:0
Test Mode: Coded 125K
Polarity: Vertical



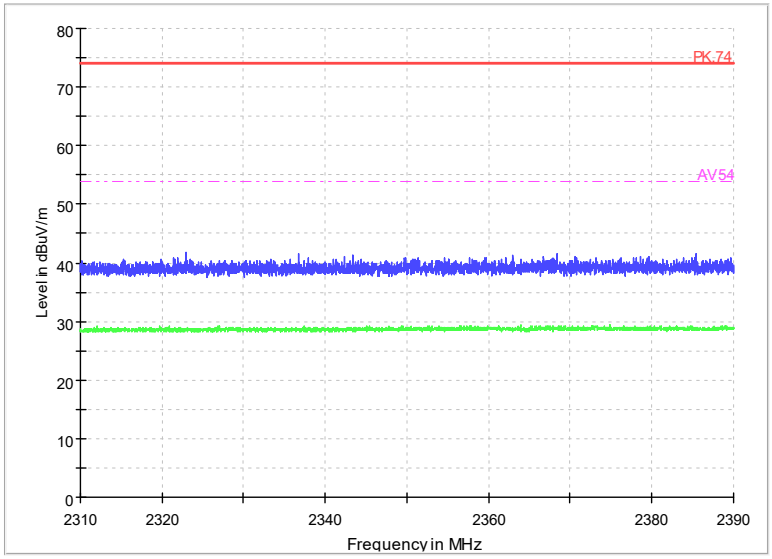
Carrier frequency (MHz): 2402
Channel No.:0
Test Mode: Coded 125K
Polarity: Horizontal



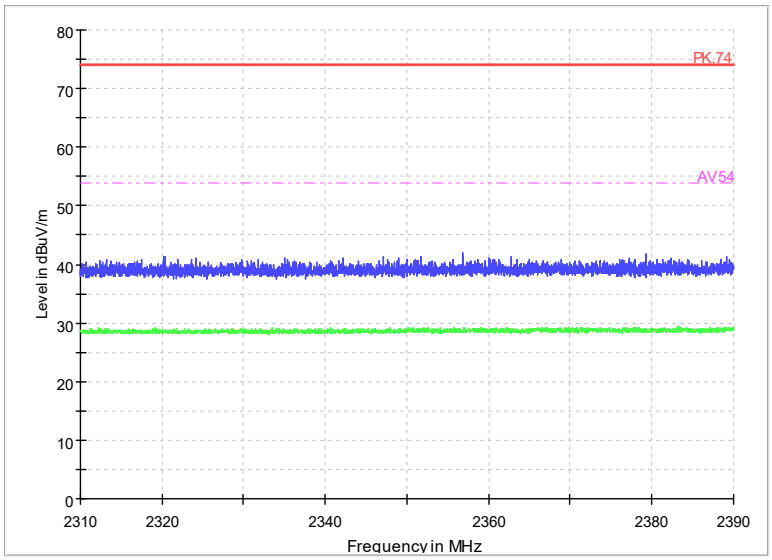
Carrier frequency (MHz): 2480
Channel No.:39
Test Mode: Coded 125K
Polarity: Vertical



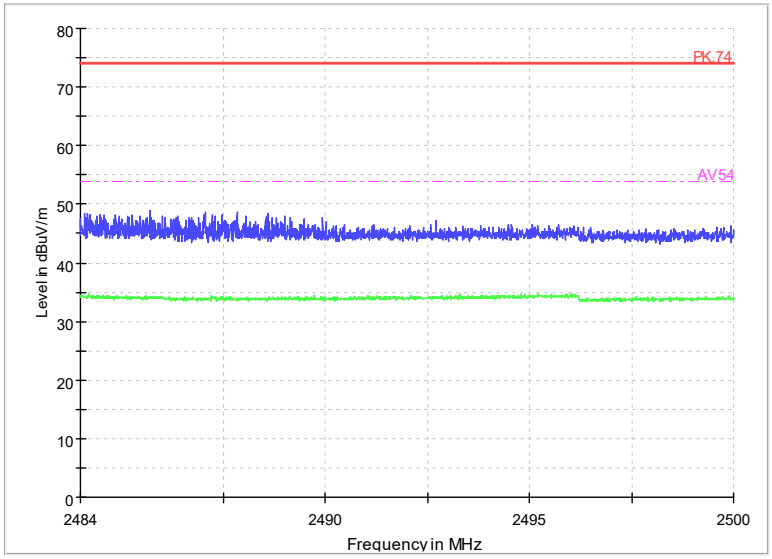
Carrier frequency (MHz): 2480
Channel No.:39
Test Mode: Coded 125K
Polarity: Horizonta



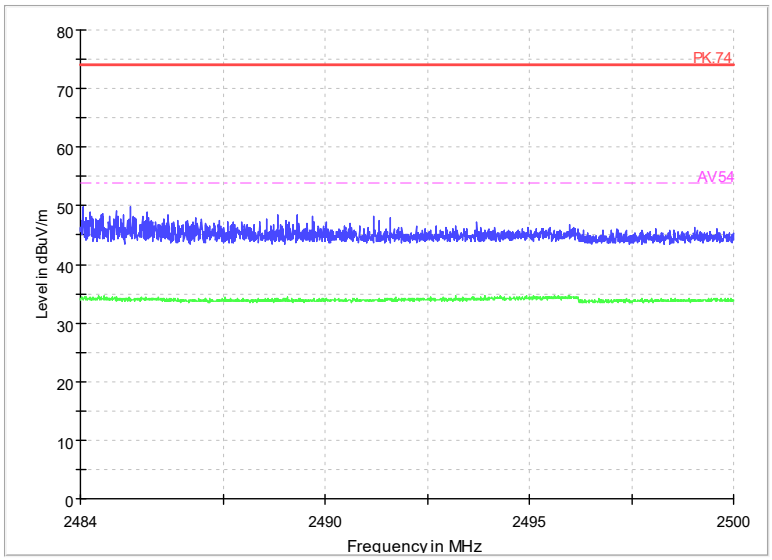
Carrier frequency (MHz): 2402
Channel No.:0
Test Mode: Coded 500K
Polarity: Vertical



Carrier frequency (MHz): 2402
Channel No.:0
Test Mode: Coded 500K
Polarity: Horizontal



Carrier frequency (MHz): 2480
Channel No.:39
Test Mode: Coded 500K
Polarity: Vertical



Carrier frequency (MHz): 2480
Channel No.:39
Test Mode: Coded 500K
Polarity: Horizonta

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:

Result= P_{mea}+ A_{Rpl}

Sample calculation: (32.16dBμV/m) = (52.46dBuV) + (-20.3dB/m), the corresponding frequency is 32.4735MHz.

For GFSK (LE 1Mbps)

Channel No.:0

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
32.4735	32.16	-20.3	52.46	Vertical	40	7.84
84.126	24.61	-20.9	45.51	Vertical	40	15.39
123.508	5.24	-20.4	25.64	Vertical	43.5	38.26
195.094	12.45	-19.6	32.05	Vertical	43.5	31.05
436.3815	17.31	-12.4	29.71	Vertical	46	28.69
933.9915	18.06	-3.3	21.36	Vertical	46	27.94

Channel No.:19

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
32.1825	32.88	-20.3	53.18	Vertical	40	7.12
84.126	24.7	-20.9	45.6	Vertical	40	15.3
154.257	11.18	-21.9	33.08	Vertical	43.5	32.32
196.1125	12.03	-19.5	31.53	Vertical	43.5	31.47
436.3815	17.32	-12.4	29.72	Vertical	46	28.68
929.9175	17.91	-3.3	21.21	Vertical	46	28.09

Channel No.:39

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
32.3765	31.94	-20.3	52.24	Vertical	40	8.06
84.126	24.7	-20.9	45.6	Vertical	40	15.3
157.0215	10.9	-21.8	32.7	Vertical	43.5	32.6
199.944	12.08	-19.3	31.38	Vertical	43.5	31.42
436.3815	17.35	-12.4	29.75	Vertical	46	28.65
958.5325	17.92	-3.2	21.12	Vertical	46	28.08

For GFSK (LE 2Mbps)

Channel No.:0

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
32.716	32.84	-20.2	53.04	Vertical	40	7.16
84.126	24.66	-20.9	45.56	Vertical	40	15.34
154.7905	11.32	-21.9	33.22	Vertical	43.5	32.18
203.4845	11.48	-19.1	30.58	Vertical	43.5	32.02

527.1735	13.97	-10.4	24.37	Vertical	46	32.03
937.726	18.06	-3.3	21.36	Vertical	46	27.94

Channel No.:19

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
32.8615	31.93	-20.2	52.13	Vertical	40	8.07
84.126	24.7	-20.9	45.6	Vertical	40	15.3
156.294	12.04	-21.8	33.84	Vertical	43.5	31.46
195.7245	13.35	-19.5	32.85	Vertical	43.5	30.15
436.333	16.61	-12.4	29.01	Vertical	46	29.39
924.2915	17.81	-3.4	21.21	Vertical	46	28.19

Channel No.:39

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
36.014	18.14	-19.7	37.84	Vertical	40	21.86
84.126	24.61	-20.9	45.51	Vertical	40	15.39
123.217	6.16	-20.4	26.56	Vertical	43.5	37.34
300.5815	12.1	-16.2	28.3	Vertical	46	33.9
528.774	12.25	-10.3	22.55	Vertical	46	33.75
958.096	17.83	-3.2	21.03	Vertical	46	28.17

For Coded 125K

Channel No.:0

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
36.014	18.21	-19.7	37.91	Vertical	40	21.79
84.126	24.61	-20.9	45.51	Vertical	40	15.39
99.549	6.53	-19.1	25.63	Vertical	43.5	36.97
300.5815	12.13	-16.2	28.33	Vertical	46	33.87
541.3355	12.54	-10	22.54	Vertical	46	33.46
948.0565	18	-3.2	21.2	Vertical	46	28

Channel No.:19

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
36.014	18.27	-19.7	37.97	Vertical	40	21.73
84.126	24.6	-20.9	45.5	Vertical	40	15.4
99.2095	10.52	-19.1	29.62	Vertical	43.5	32.98
300.5815	12.17	-16.2	28.37	Vertical	46	33.83
529.2105	12.31	-10.3	22.61	Vertical	46	33.69
914.543	17.79	-3.5	21.29	Vertical	46	28.21

Channel No.:39

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
36.014	18.17	-19.7	37.87	Vertical	40	21.83
84.126	24.6	-20.9	45.5	Vertical	40	15.4

99.161	9.31	-19.1	28.41	Vertical	43.5	34.19
300.5815	12.13	-16.2	28.33	Vertical	46	33.87
551.4235	12.46	-9.8	22.26	Vertical	46	33.54
940.2965	17.99	-3.3	21.29	Vertical	46	28.01

For Coded 500K
Channel No.:0

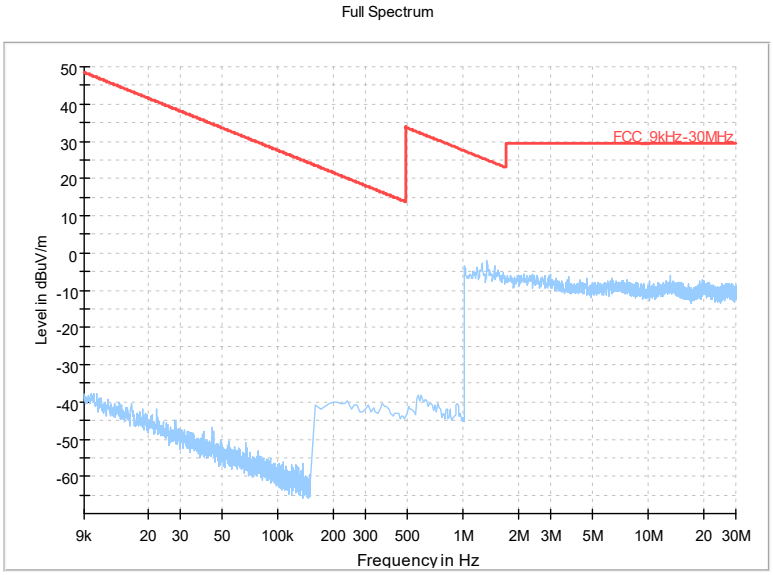
Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
36.014	18.11	-19.7	37.81	Vertical	40	21.89
84.126	24.6	-20.9	45.5	Vertical	40	15.4
102.168	7.6	-19.1	26.7	Vertical	43.5	35.9
291.5605	10.85	-16.5	27.35	Vertical	46	35.15
533.7695	12.51	-10.2	22.71	Vertical	46	33.49
954.313	17.9	-3.2	21.1	Vertical	46	28.1

Channel No.:19

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
36.014	18.16	-19.7	37.86	Vertical	40	21.84
84.126	24.6	-20.9	45.5	Vertical	40	15.4
99.161	9.25	-19.1	28.35	Vertical	43.5	34.25
300.5815	12.14	-16.2	28.34	Vertical	46	33.86
538.183	12.65	-10.1	22.75	Vertical	46	33.35
948.493	17.99	-3.2	21.19	Vertical	46	28.01

Channel No.:39

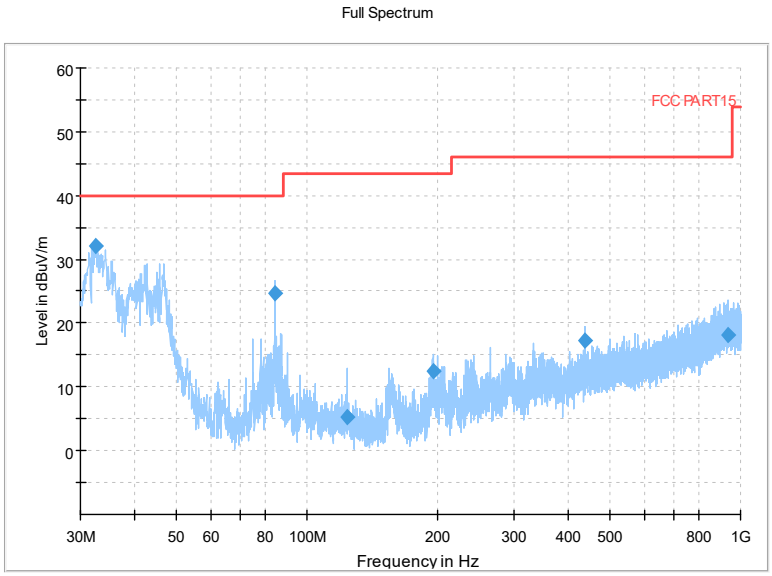
Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
36.014	18.17	-19.7	37.87	Vertical	40	21.83
84.1745	26.32	-20.9	47.22	Vertical	40	13.68
103.8655	5.49	-19.1	24.59	Vertical	43.5	38.01
300.5815	12.17	-16.2	28.37	Vertical	46	33.83
556.322	12.37	-9.7	22.07	Vertical	46	33.63
927.6865	17.97	-3.4	21.37	Vertical	46	28.03



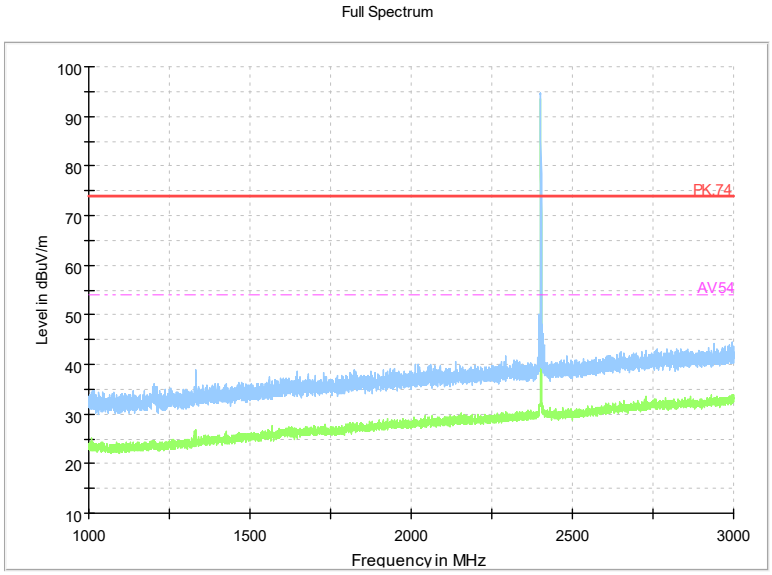
Frequency Range: 9kHz -30MHz
Detector: QP mode

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.

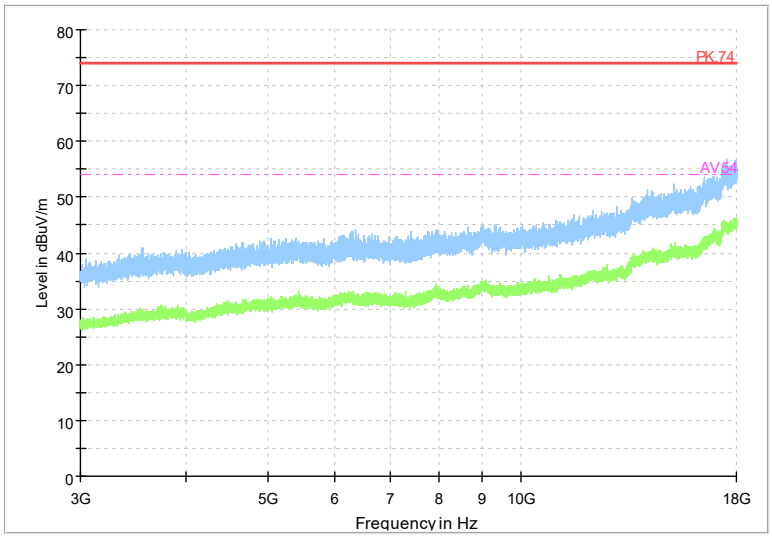
Channel No.:0



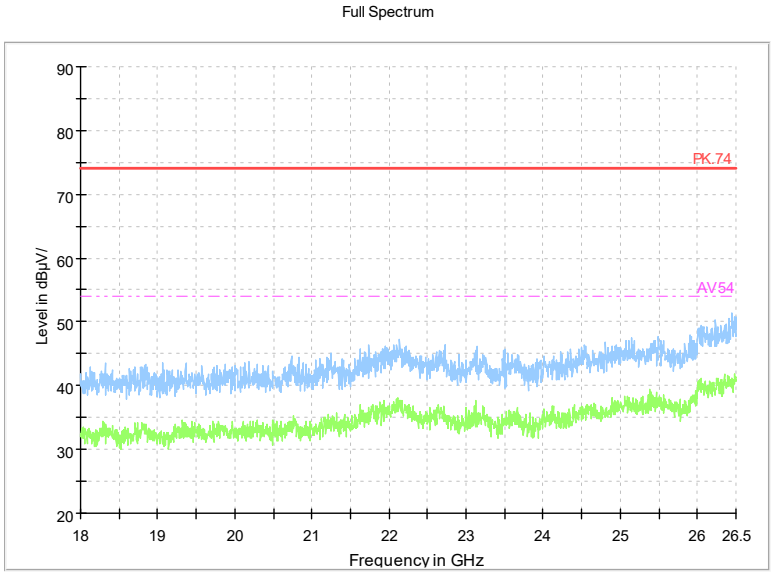
Frequency Range: 30MHz-1GHz
Detector: QP mode
Modulation type: GFSK (LE 1Mbps)



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

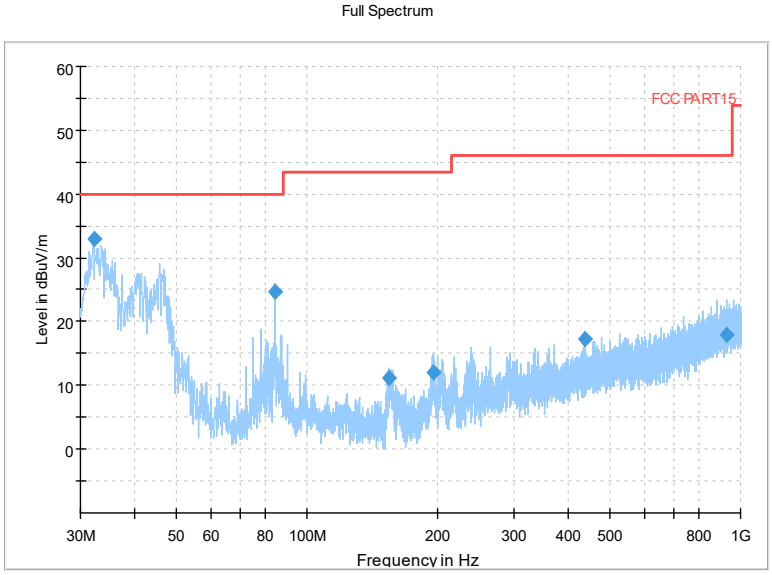


Frequency Range: 3GHz-18GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 1Mbps)

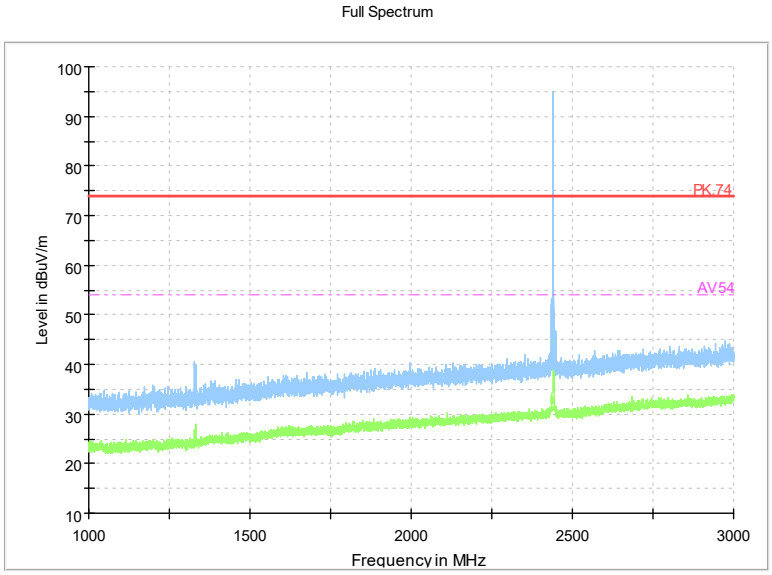


Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 1Mbps)

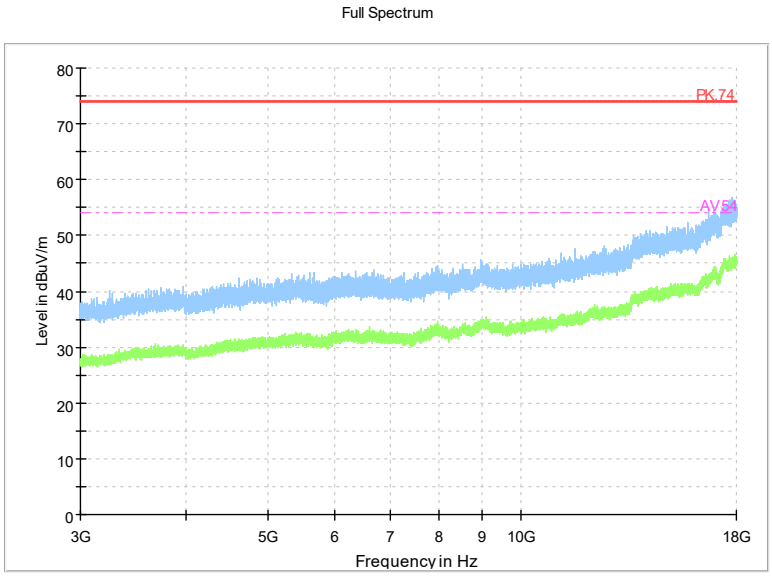
Channel No.:19



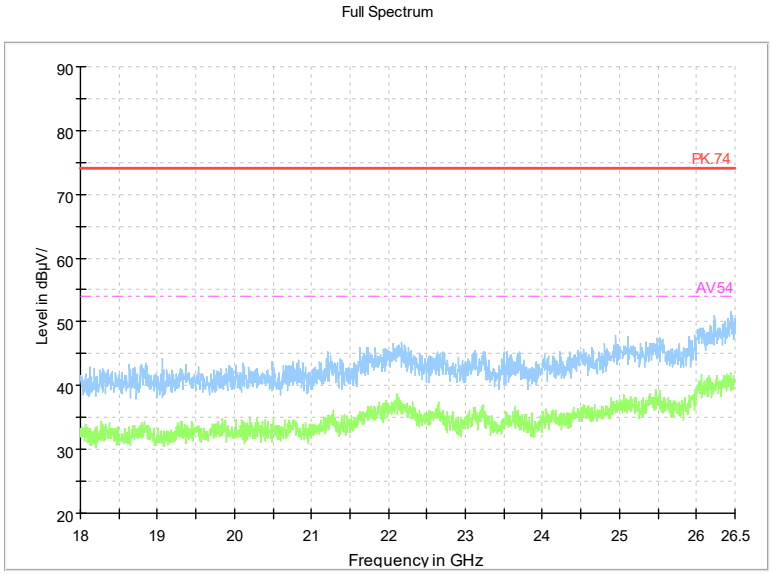
Frequency Range: 30MHz-1GHz
Detector: QP mode
Modulation type: GFSK (LE 1Mbps)



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

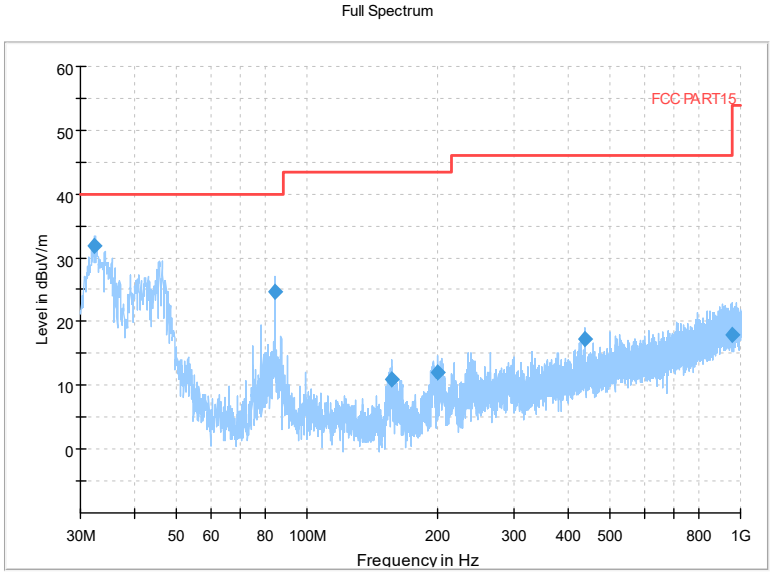


Frequency Range: 3GHz-18GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 1Mbps)

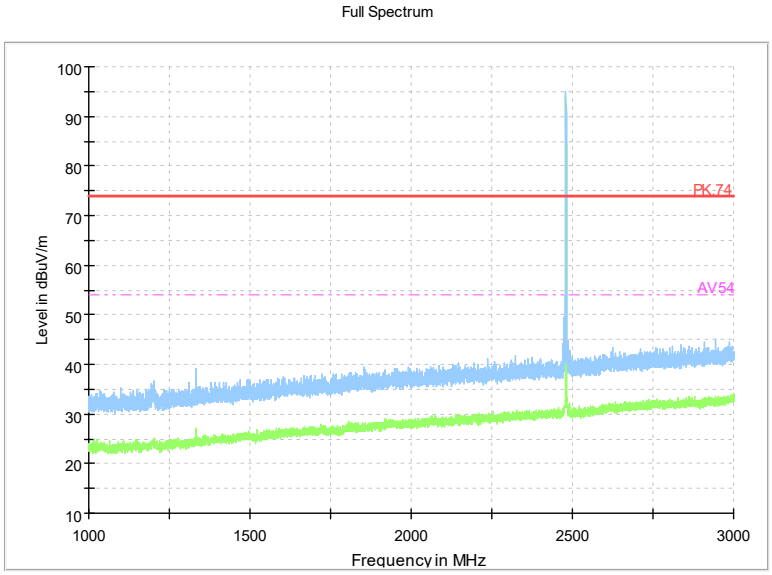


Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 1Mbps)

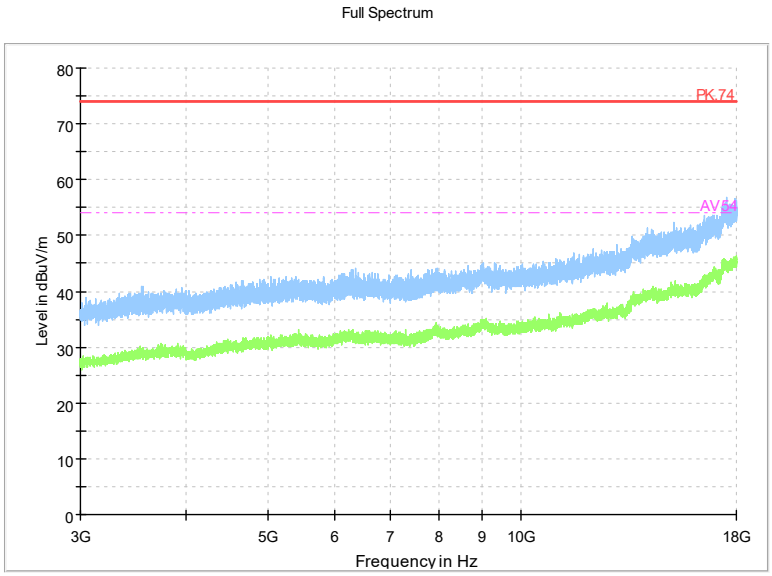
Channel No.:39



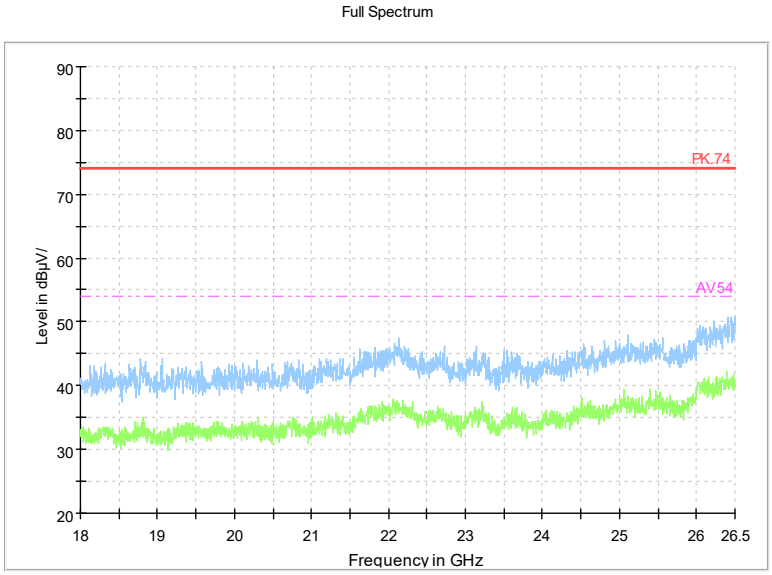
Frequency Range: 30MHz-1GHz
Detector: QP mode
Modulation type: GFSK (LE 1Mbps)



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

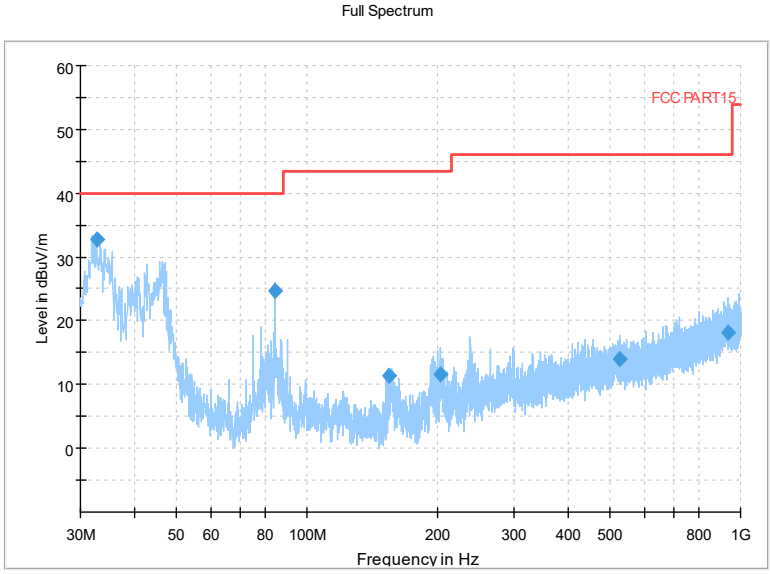


Frequency Range: 3GHz-18GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 1Mbps)

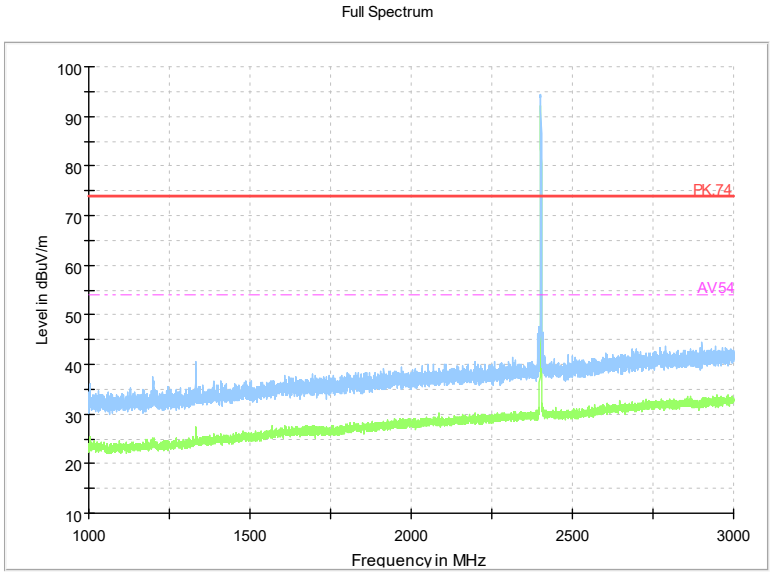


Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 1Mbps)

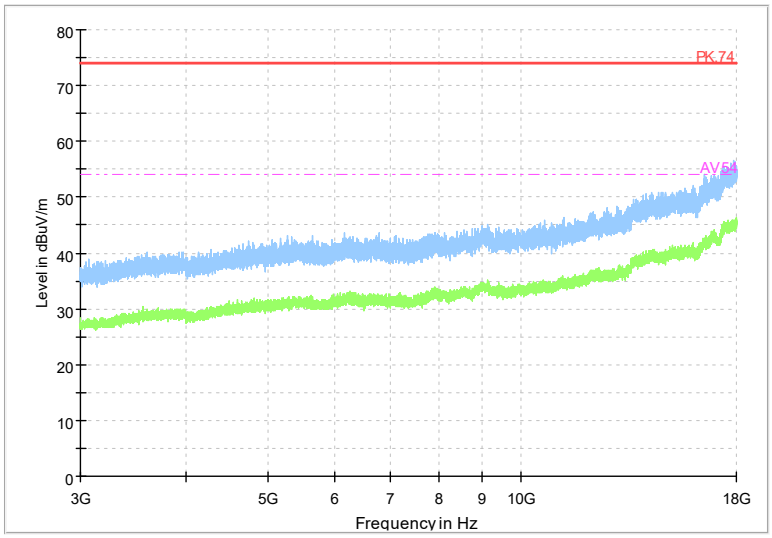
Channel No.:0



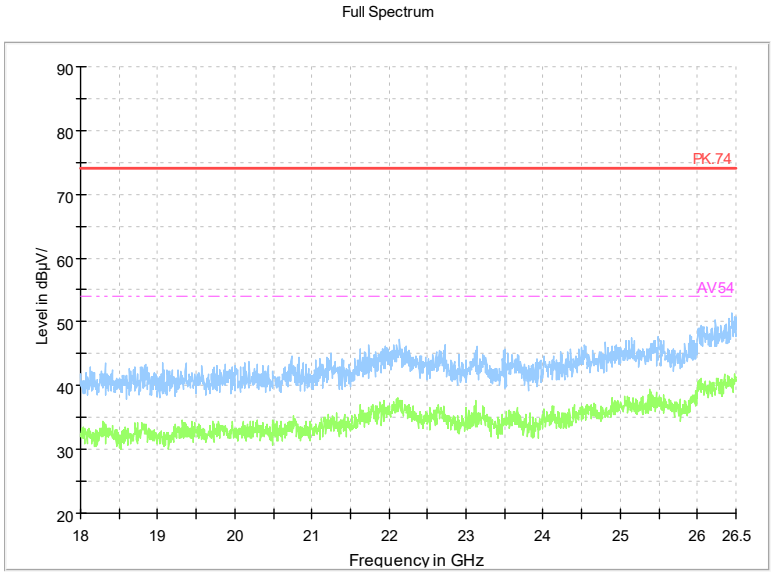
Frequency Range: 30MHz-1GHz
Detector:QP mode
Modulation type: GFSK (LE 2Mbps)



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

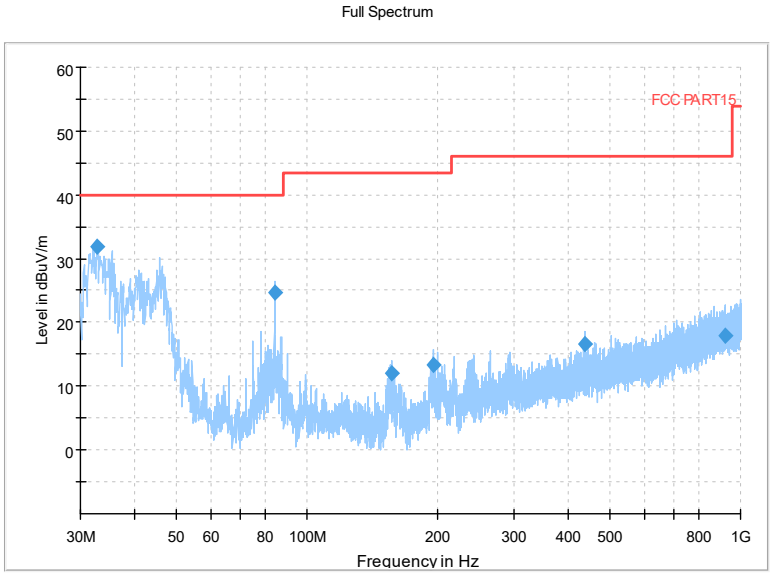


Frequency Range: 3GHz-18GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 2Mbps)

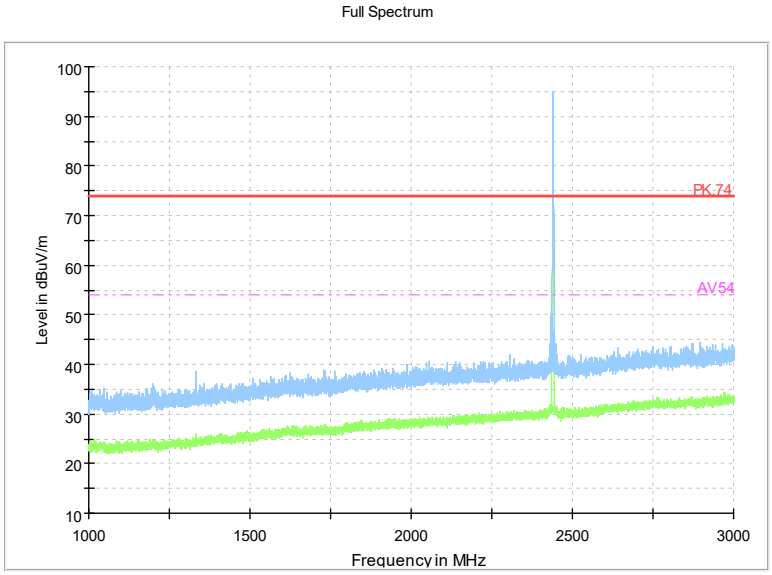


Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 2Mbps)

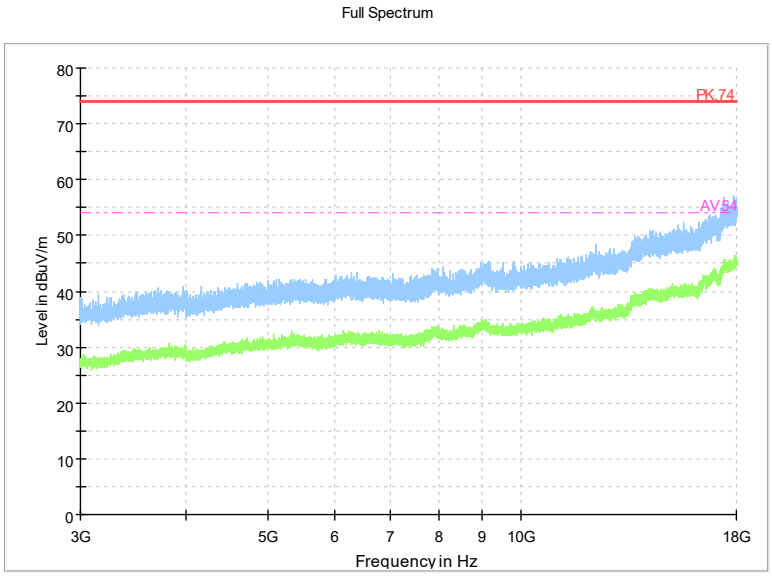
Channel No.:19



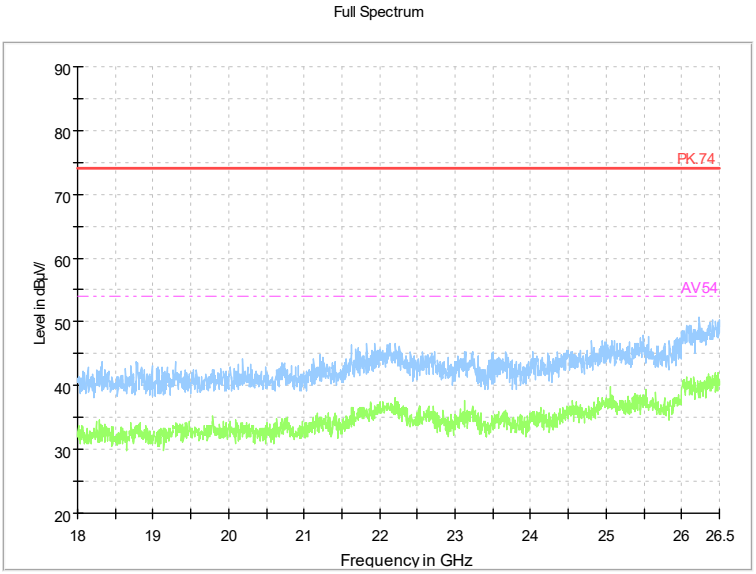
Frequency Range: 30MHz-1GHz
Detector: QP mode
Modulation type: GFSK (LE 2Mbps)



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

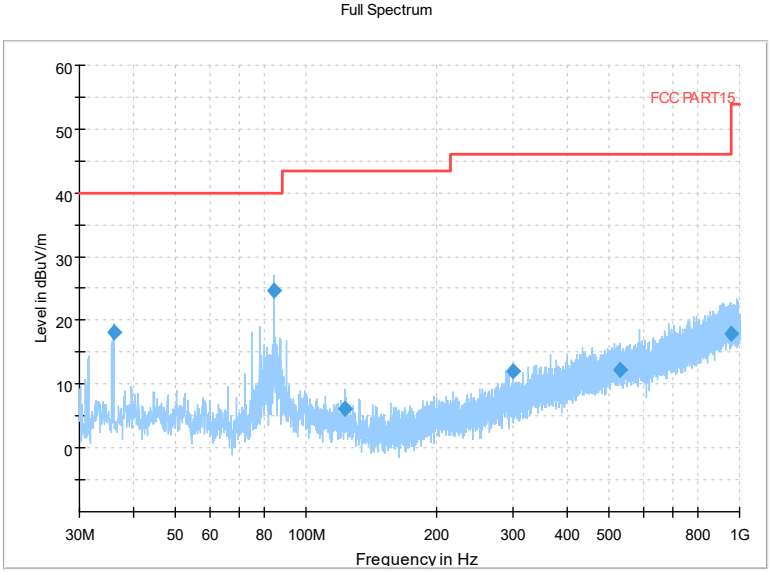


Frequency Range: 3GHz-18GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 2Mbps)

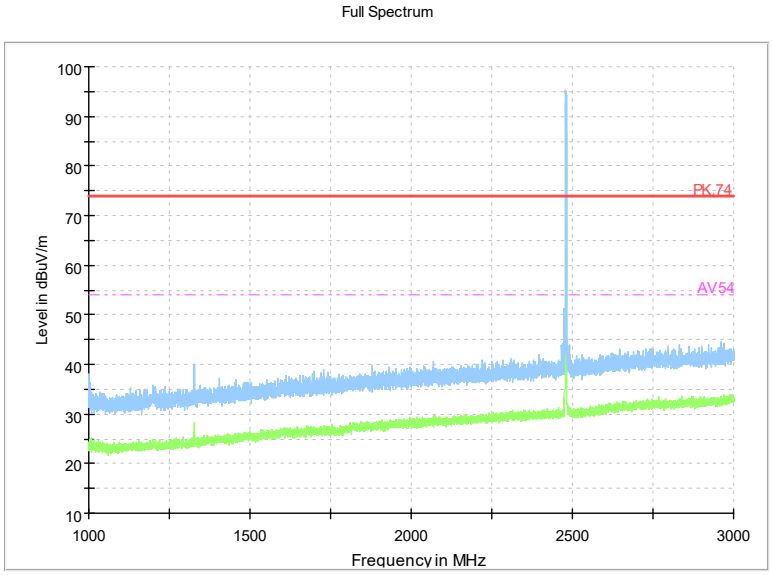


Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 2Mbps)

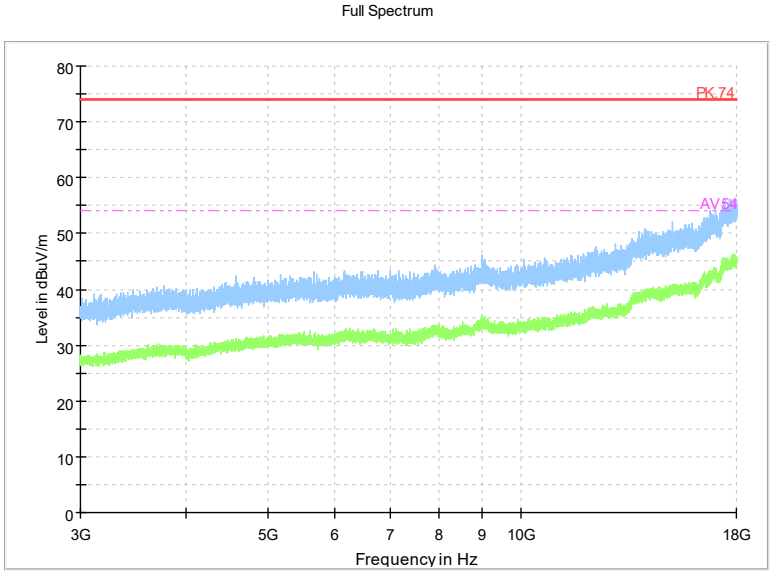
Channel No.:39



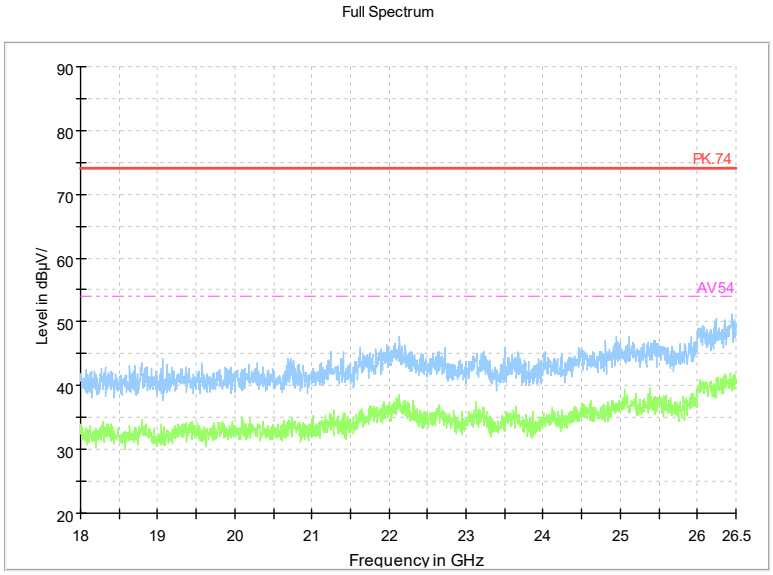
Frequency Range: 30MHz-1GHz
Detector: QP mode
Modulation type: GFSK (LE 2Mbps)



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

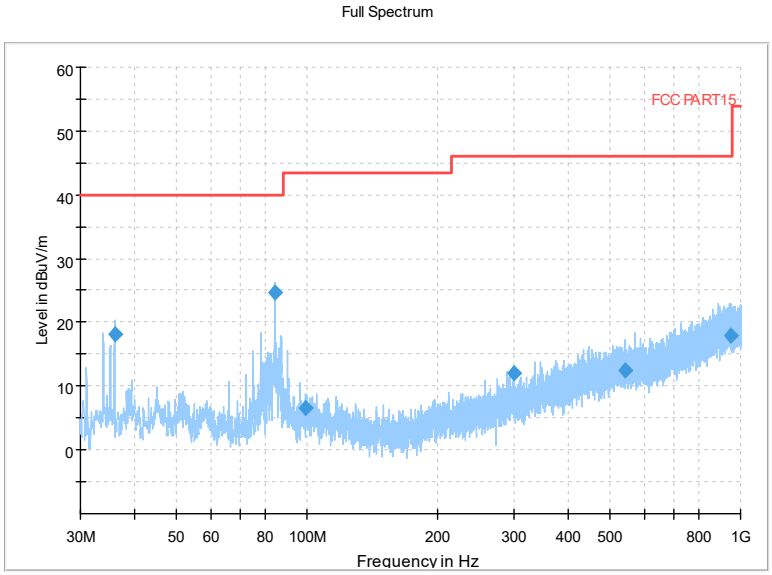


Frequency Range: 3GHz-18GHz
Detector: Av mode and PK mode
Modulation type: GFSK (LE 2Mbps)

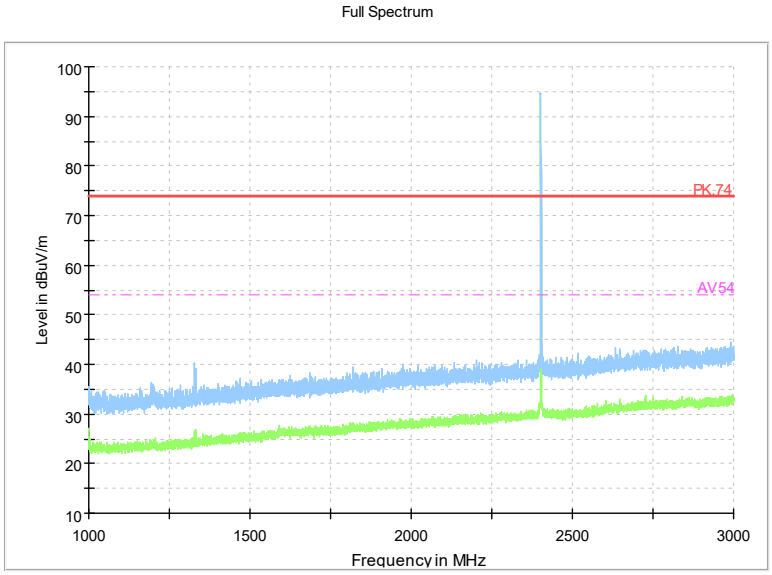


Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode

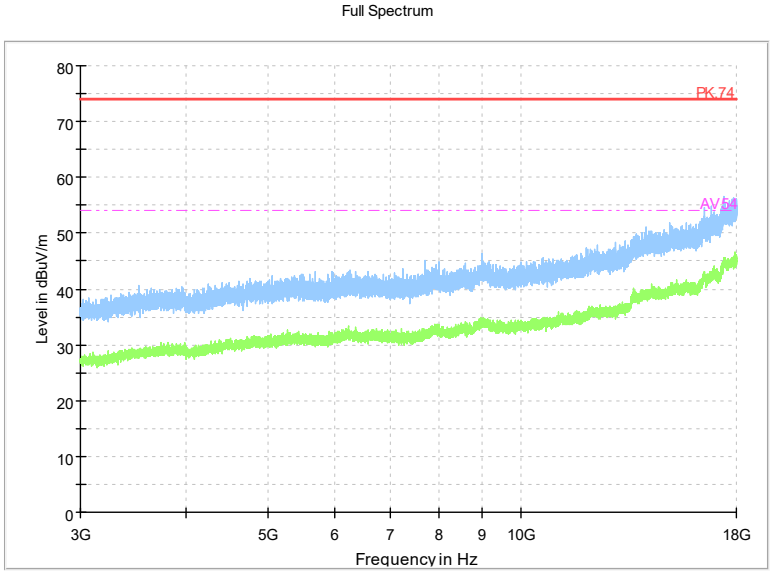
Modulation type: GFSK (LE 2Mbps)
Channel No.:0



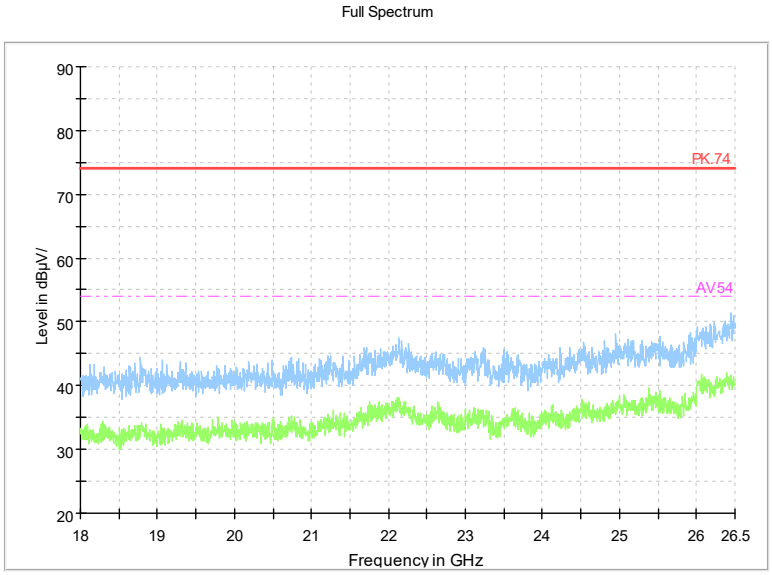
Frequency Range: 30MHz-1GHz
Detector:QP mode
Modulation type: Coded 125K



Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: Coded 125K

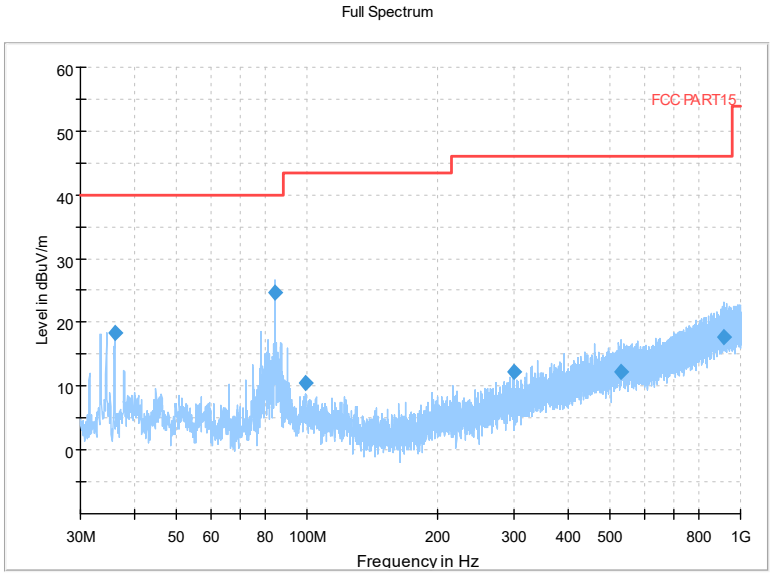


Frequency Range: 3GHz-18GHz
Detector: Av mode and PK mode
Modulation type: Coded 125K

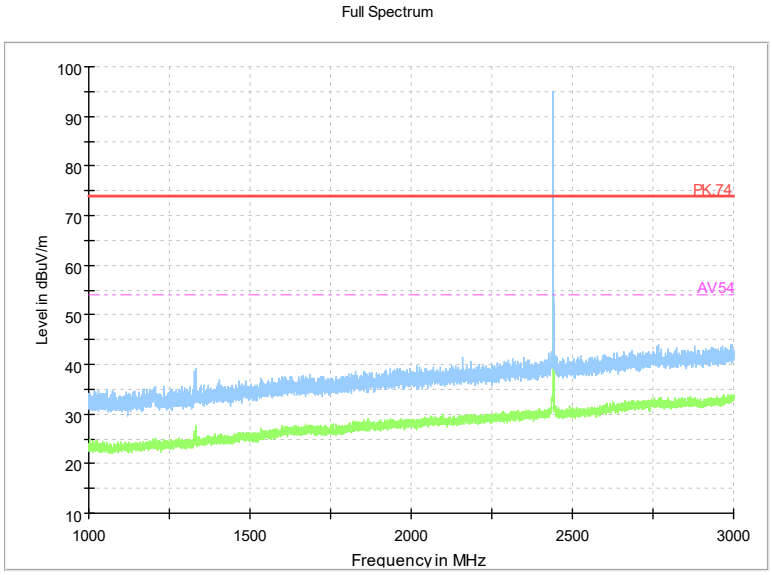


Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: Coded 125K

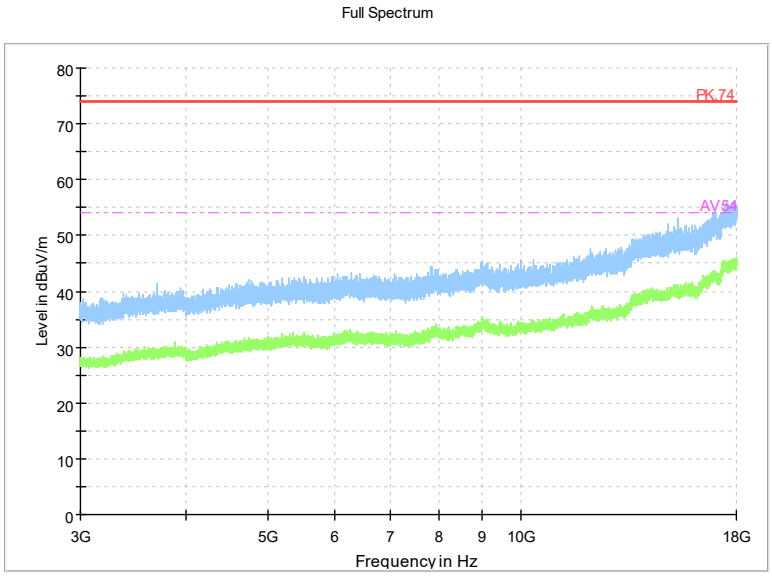
Channel No.:19



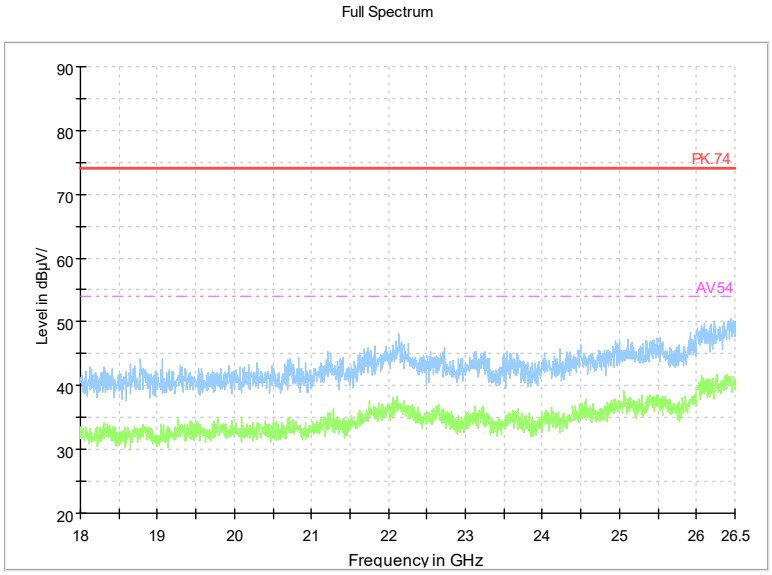
Frequency Range: 30MHz-1GHz
Detector: QP mode
Modulation type: Coded 125K



Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: Coded 125K

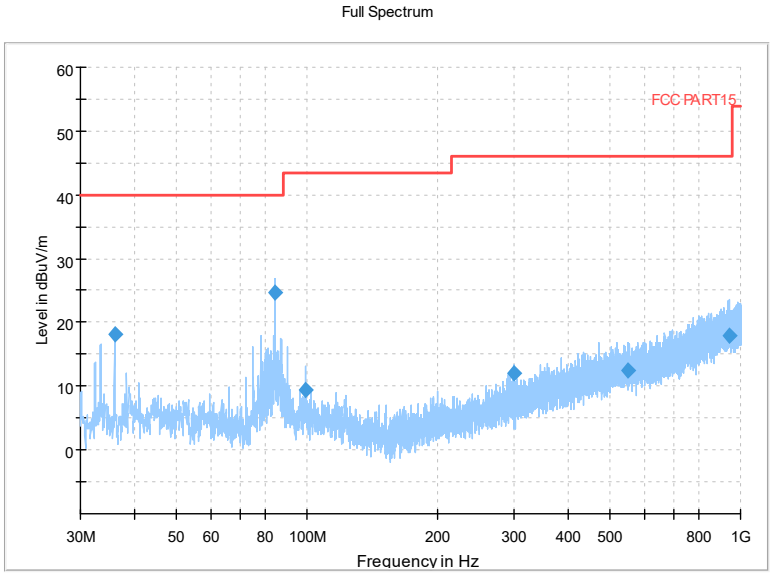


Frequency Range: 3GHz-18GHz
Detector: Av mode and PK mode
Modulation type: Coded 125K

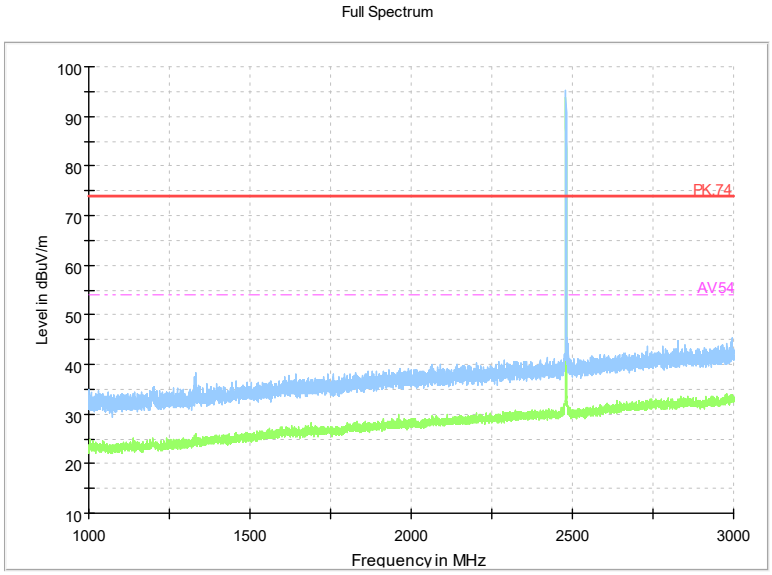


Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: Coded 125K

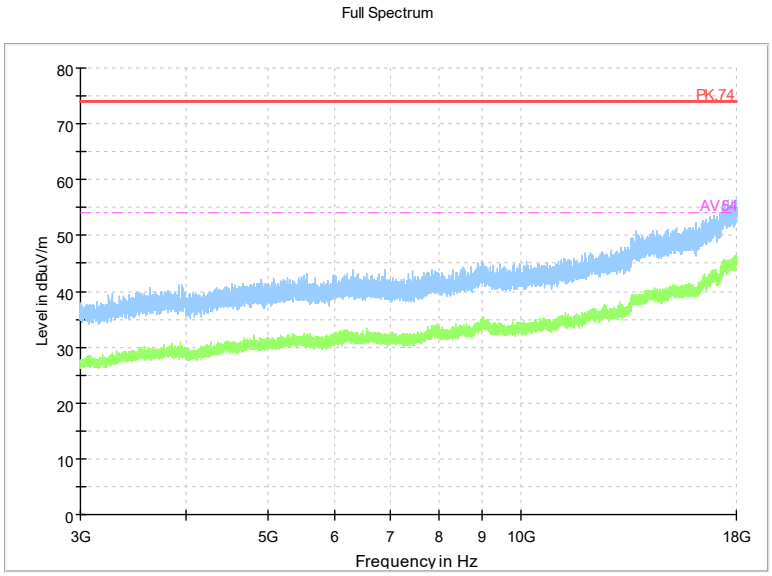
Channel No.:39



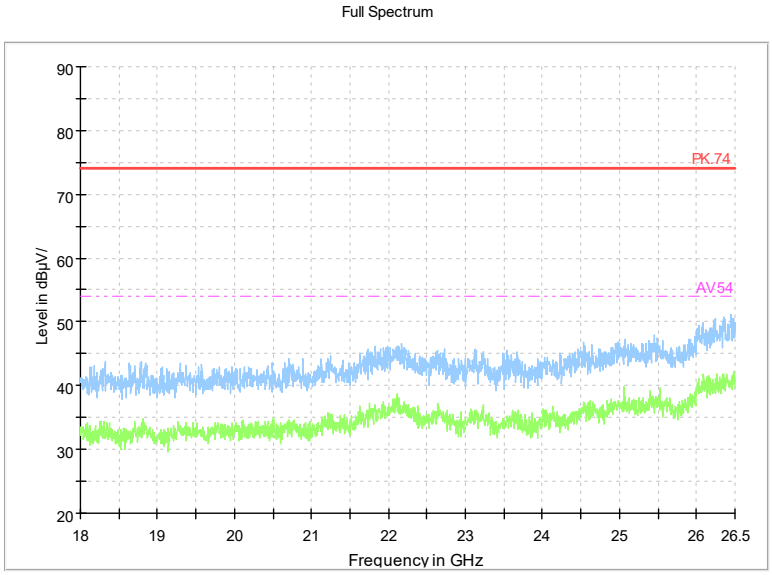
Frequency Range: 30MHz-1GHz
Detector: QP mode
Modulation type: Coded 125K



Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: Coded 125K

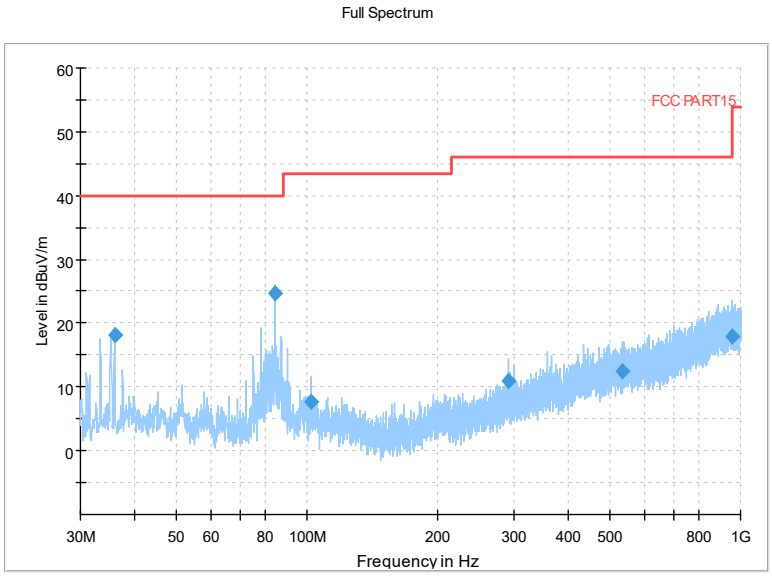


Frequency Range: 3GHz-18GHz
Detector: Av mode and PK mode
Modulation type: Coded 125K

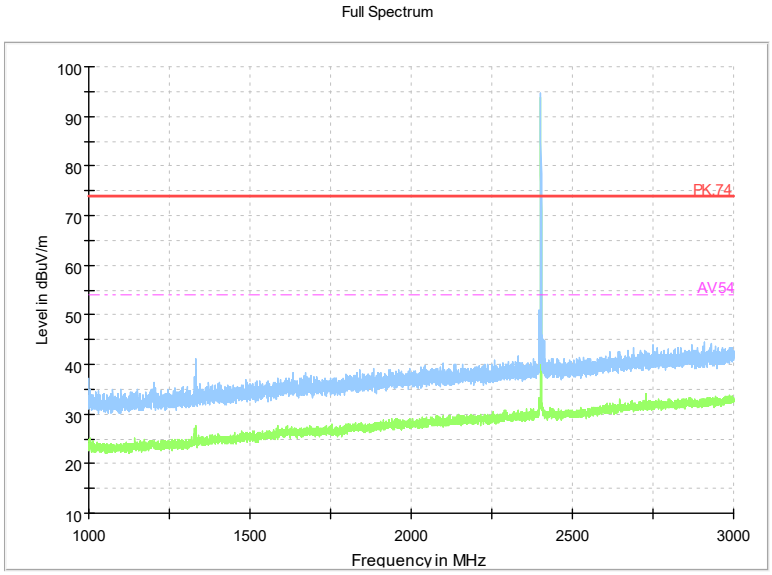


Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: Coded 125K

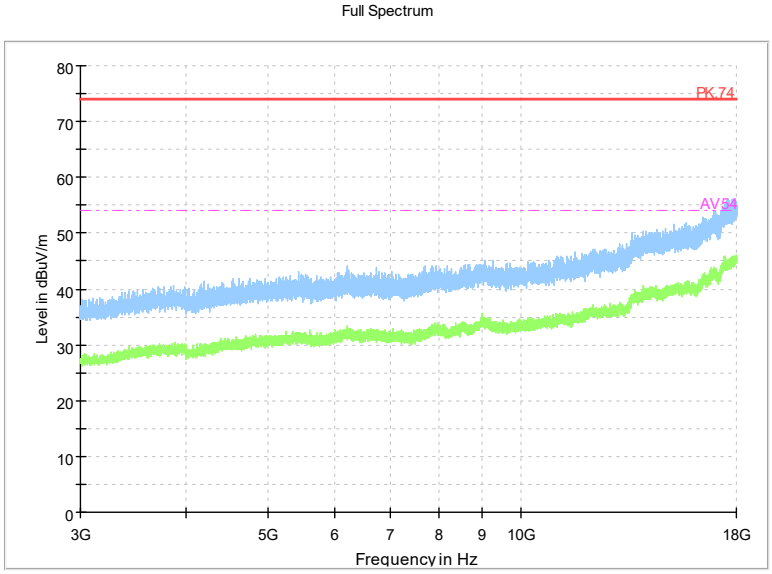
Channel No.:0



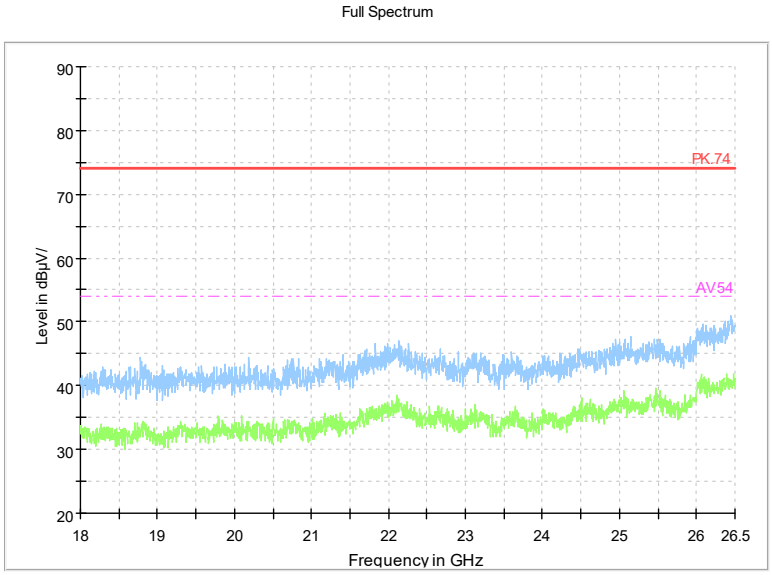
Frequency Range: 30MHz-1GHz
Detector: QP mode
Modulation type: Coded 500K



Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: Coded 500K

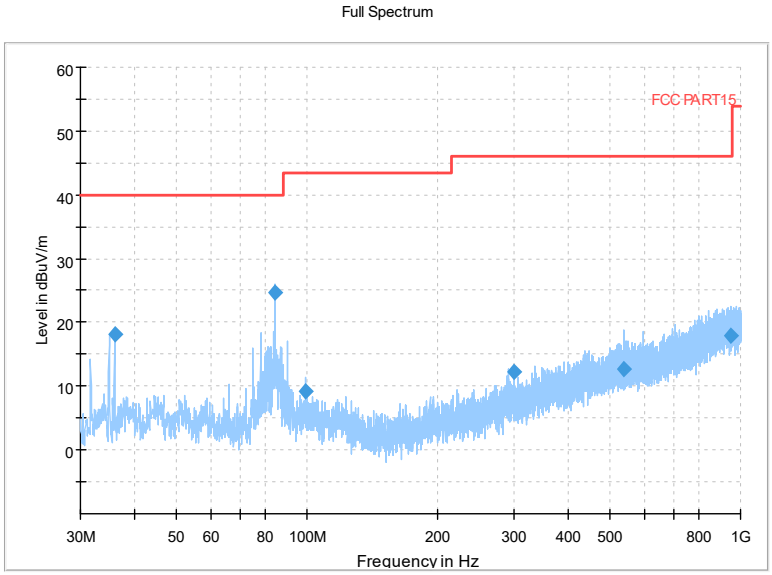


Frequency Range: 3GHz-18GHz
Detector: Av mode and PK mode
Modulation type: Coded 500K

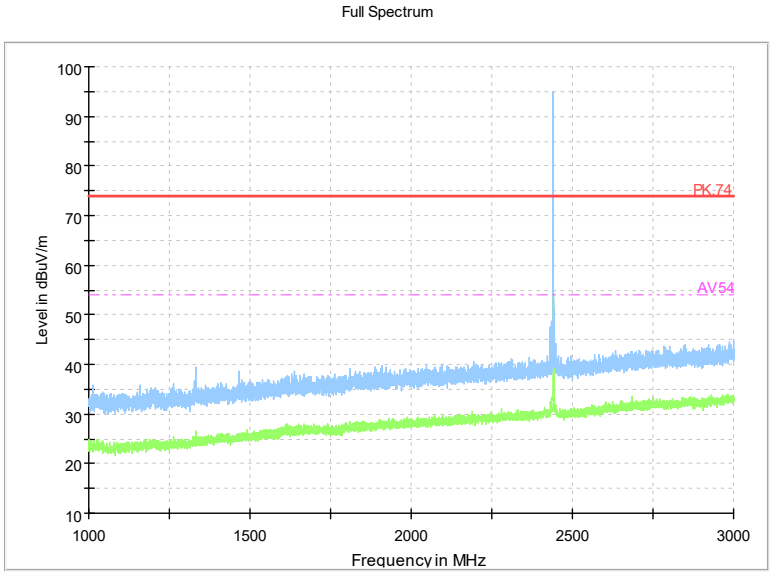


Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: Coded 500K

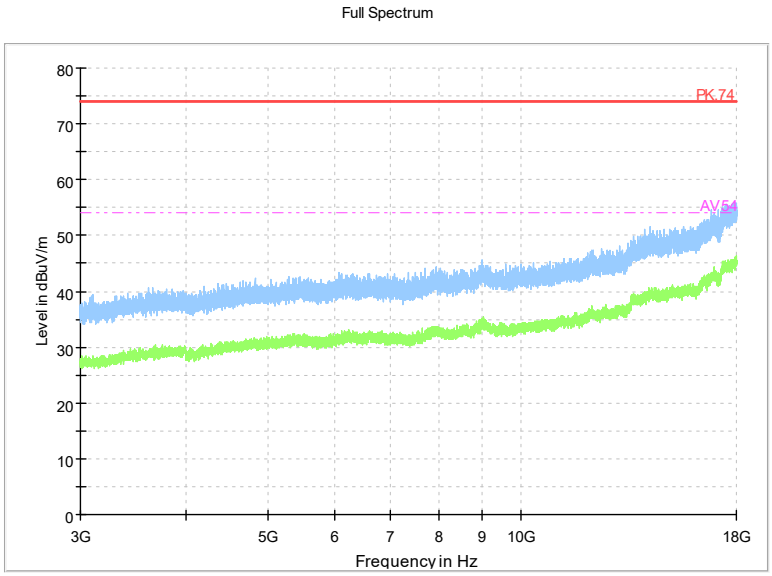
Channel No.:19



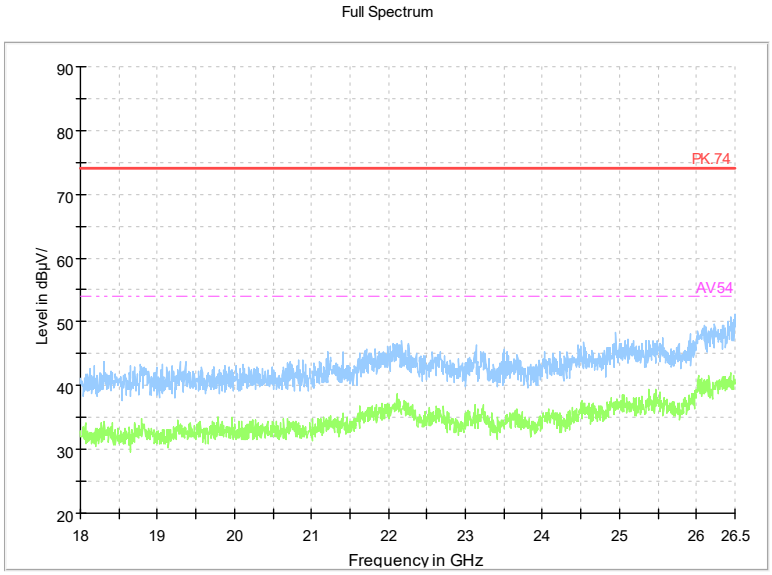
Frequency Range: 30MHz-1GHz
Detector: QP mode
Modulation type: Coded 500K



Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: Coded 500K

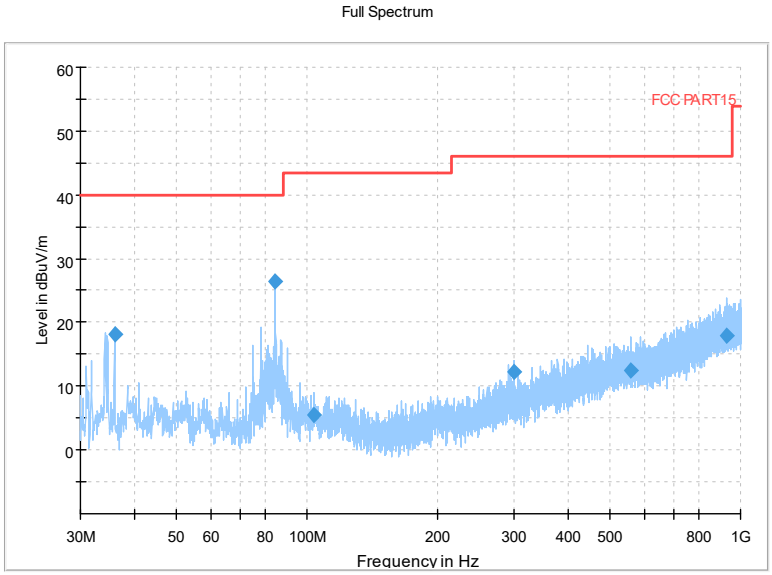


Frequency Range: 3GHz-18GHz
Detector: Av mode and PK mode
Modulation type: Coded 500K

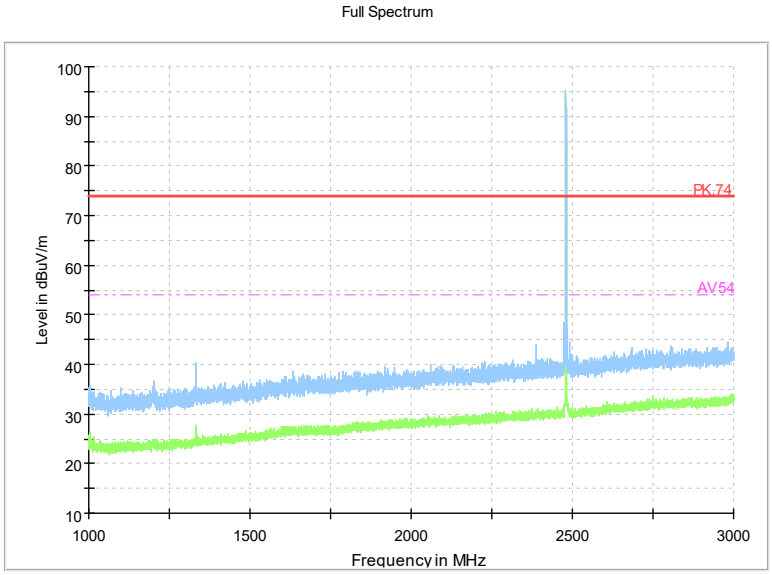


Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: Coded 500K

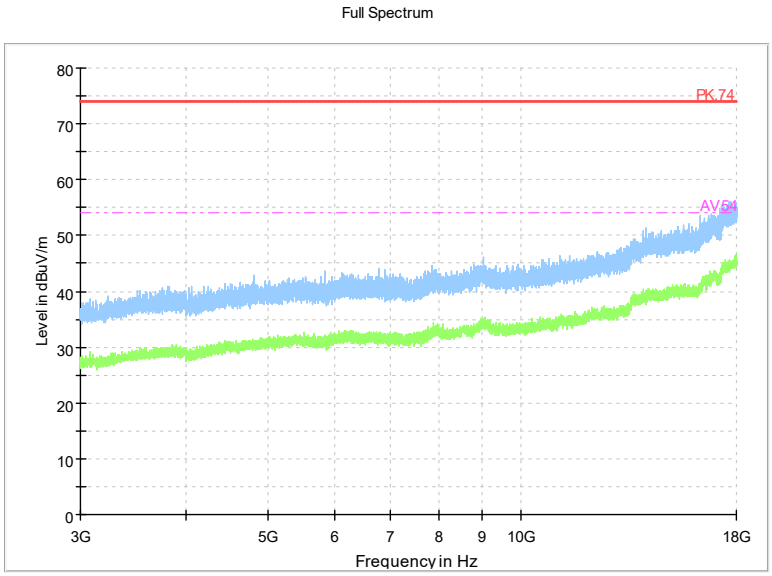
Channel No.:39



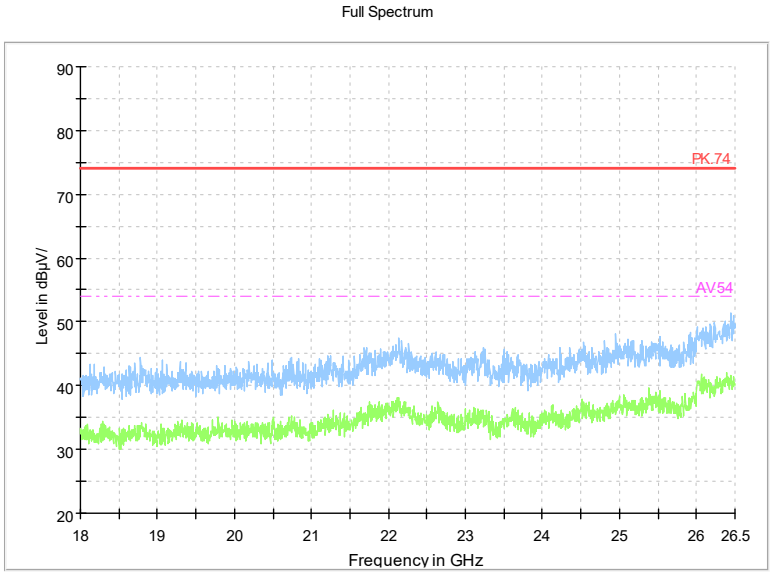
Frequency Range: 30MHz-1GHz
Detector: QP mode
Modulation type: Coded 500K



Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: Coded 500K



Frequency Range: 3GHz-18GHz
Detector: Av mode and PK mode
Modulation type: Coded 500K



Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: Coded 500K

---End of Test Report---