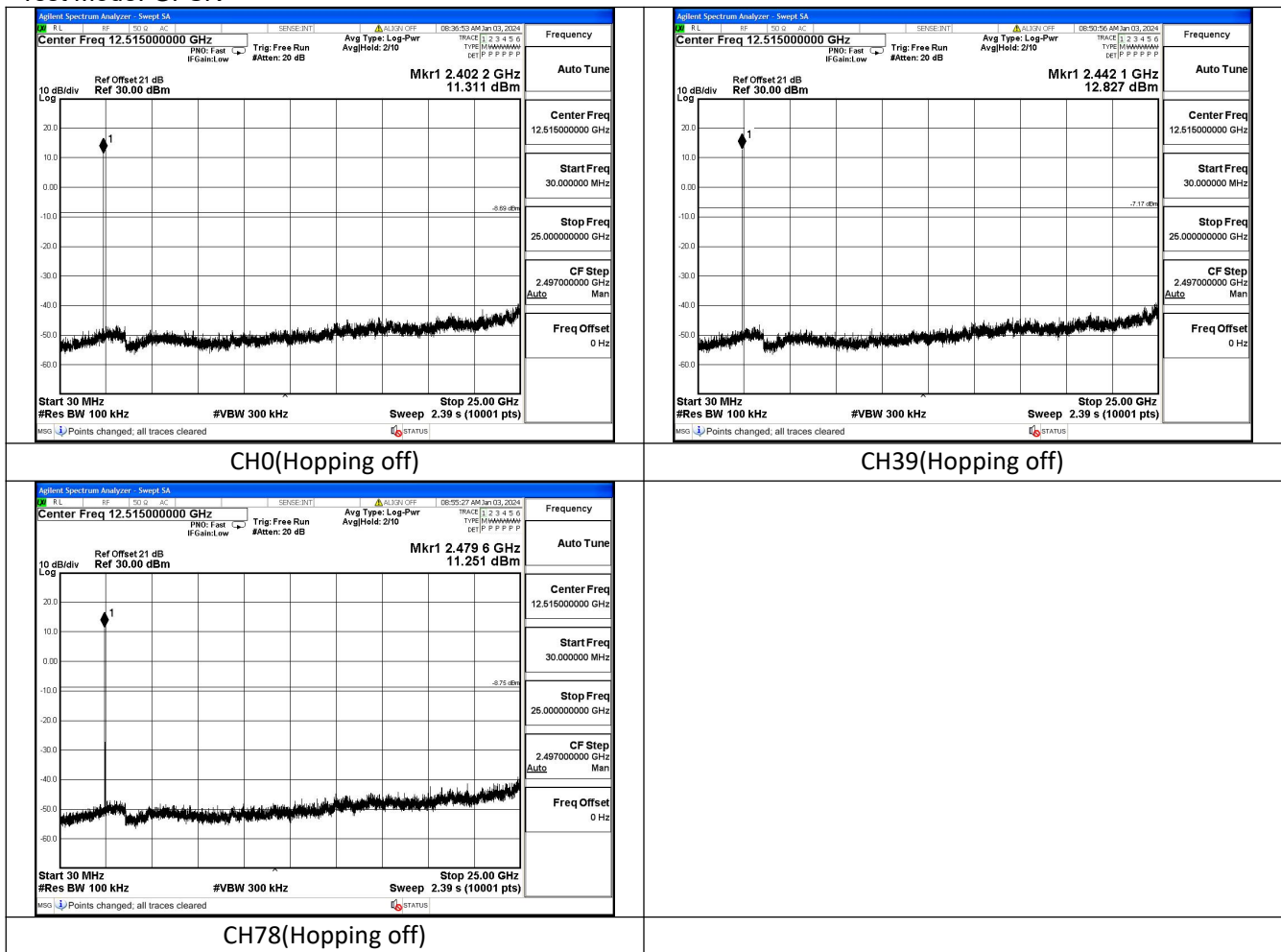
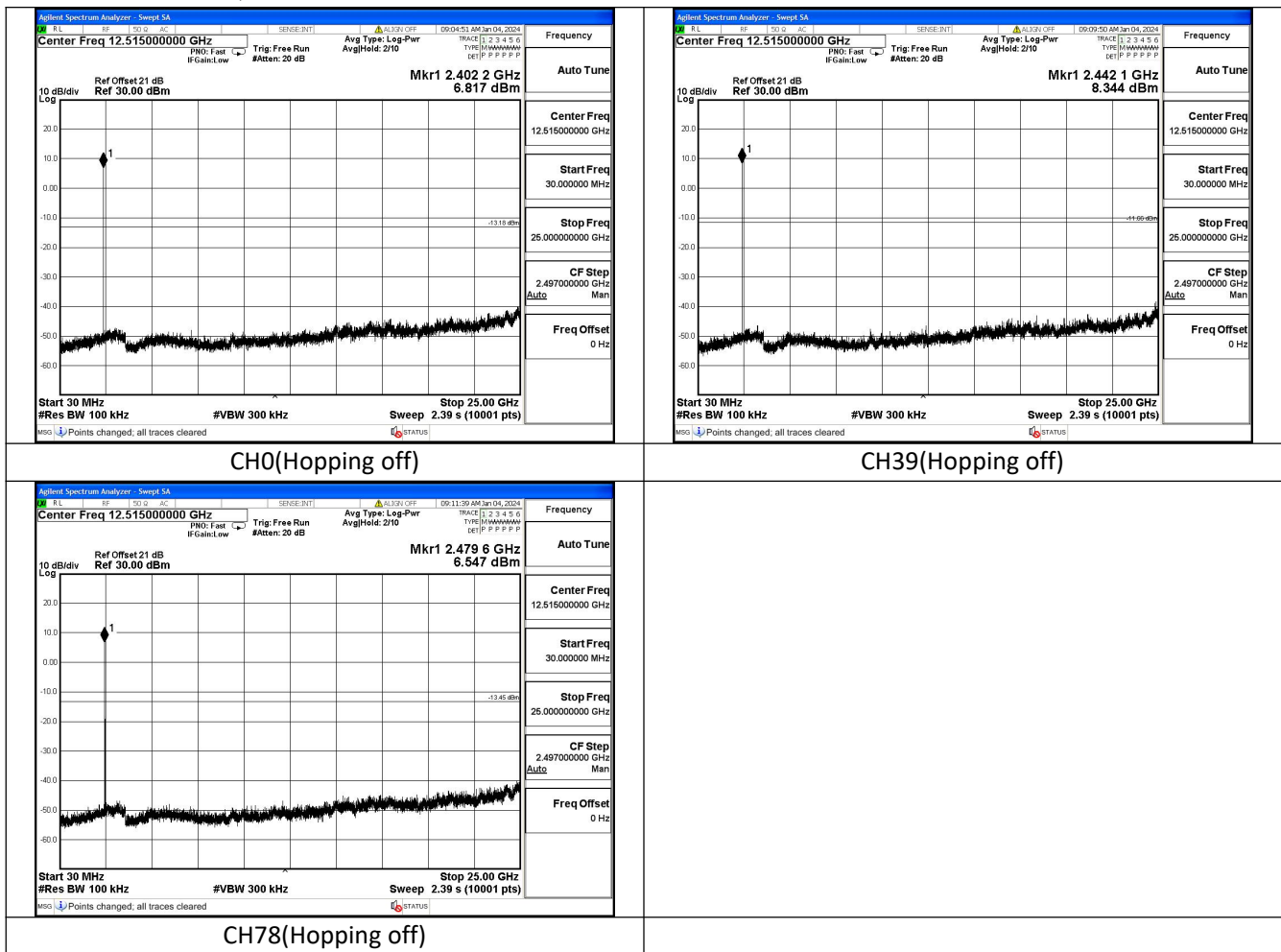


6 Conducted Out of band emission measurement

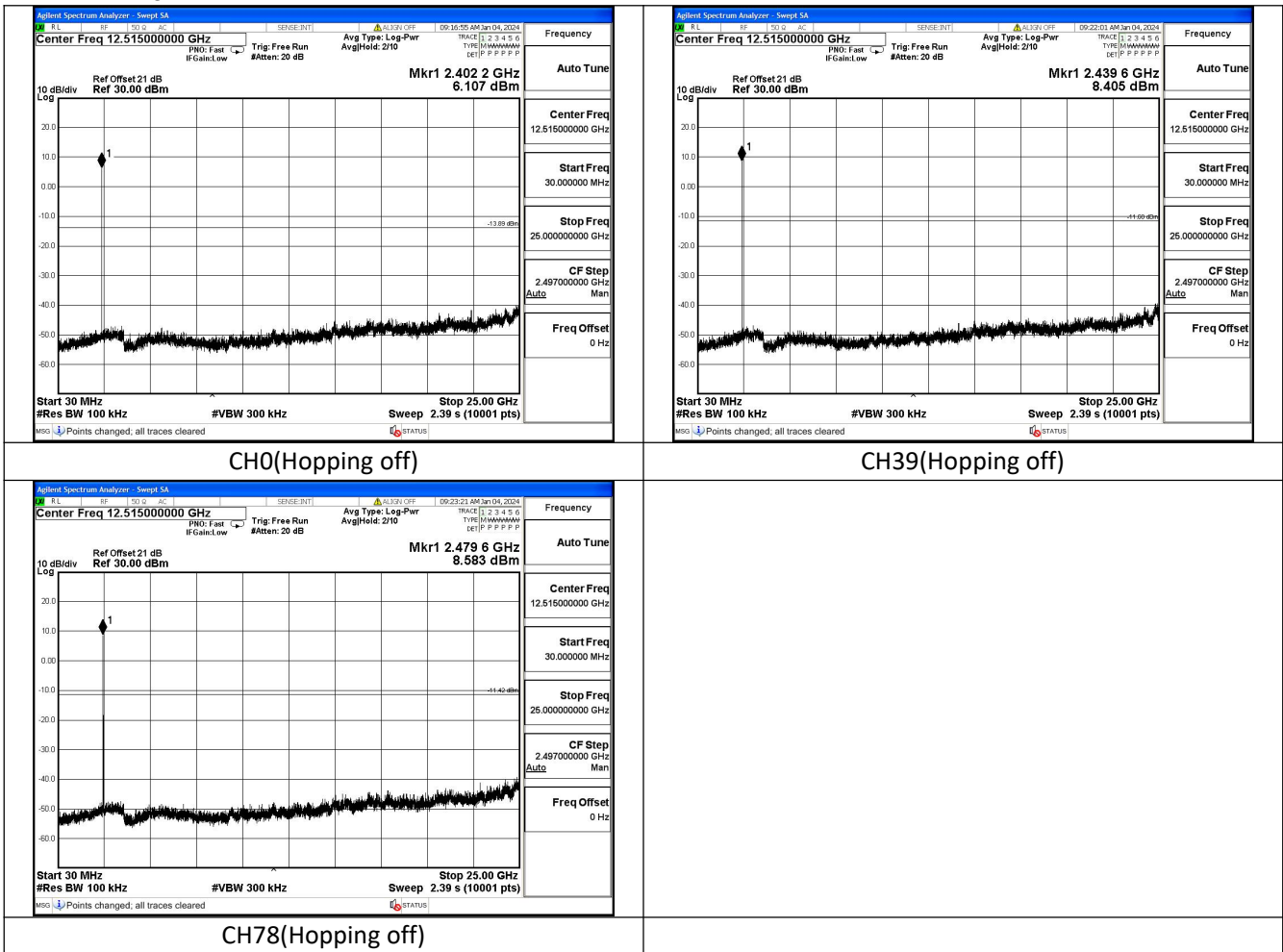
Test Mode: GFSK



Test Mode: π /4DQPSK

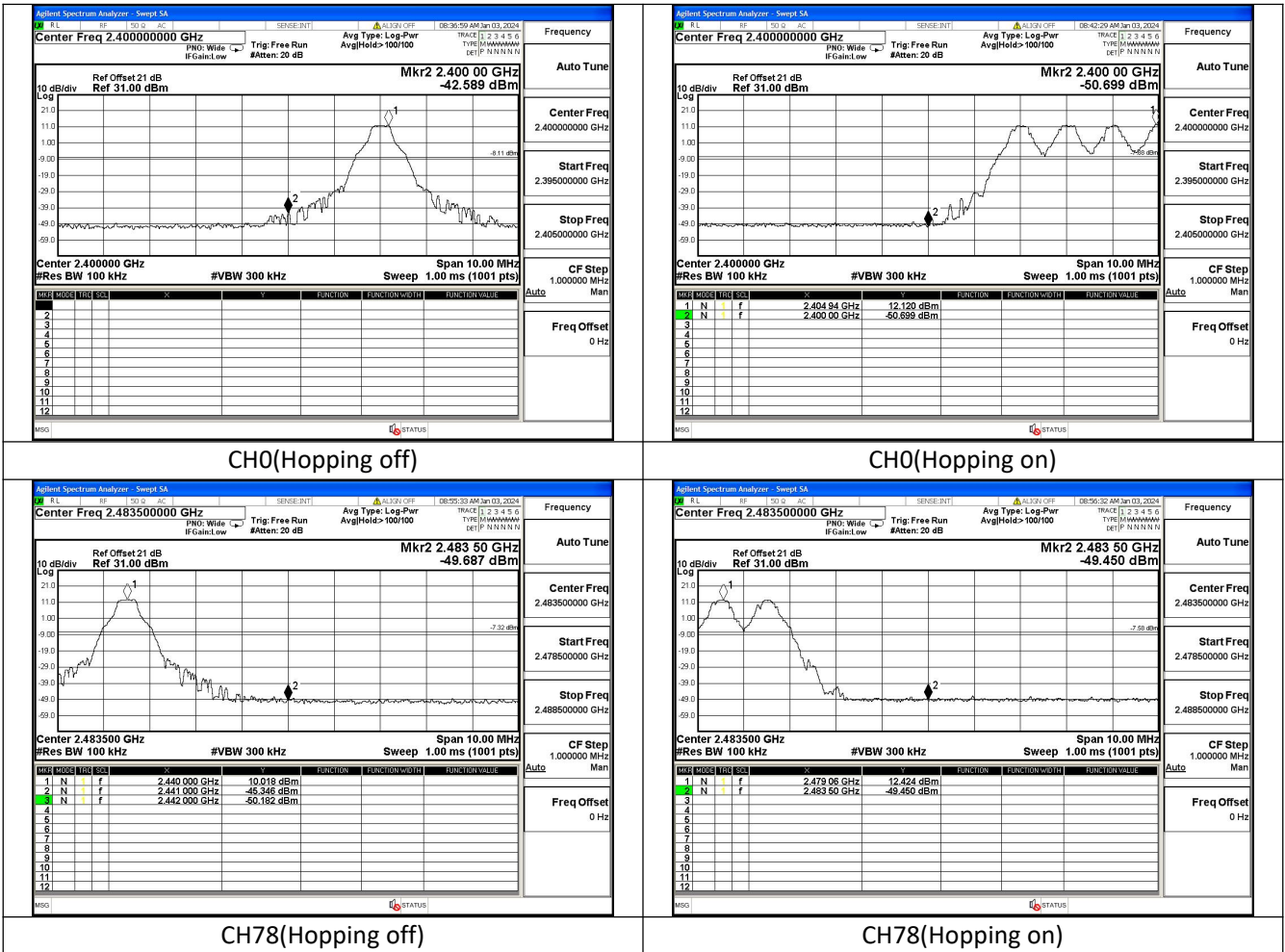


Test Mode: 8DPSK

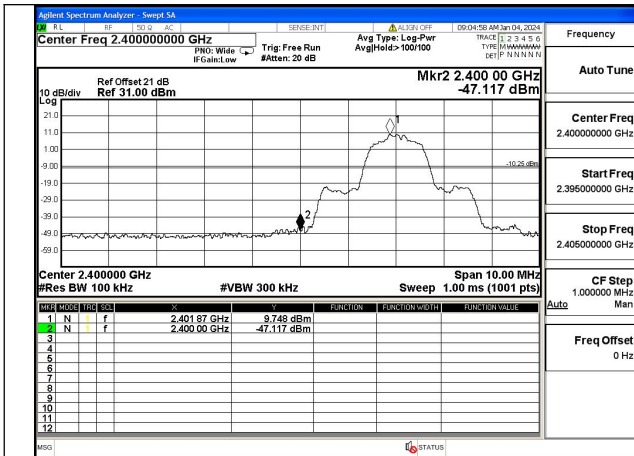


7 Band Edge measurement

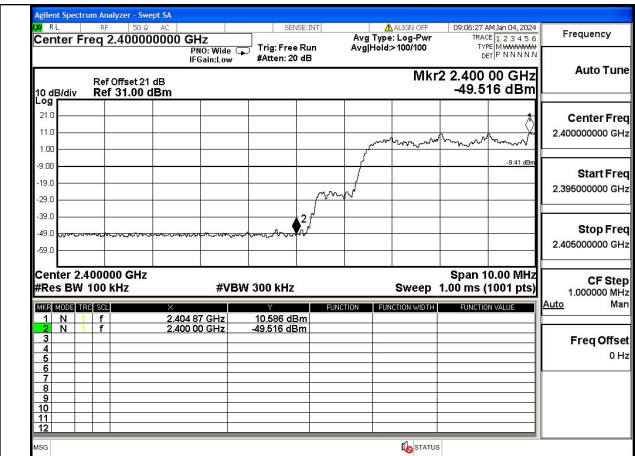
Test Mode: GFSK



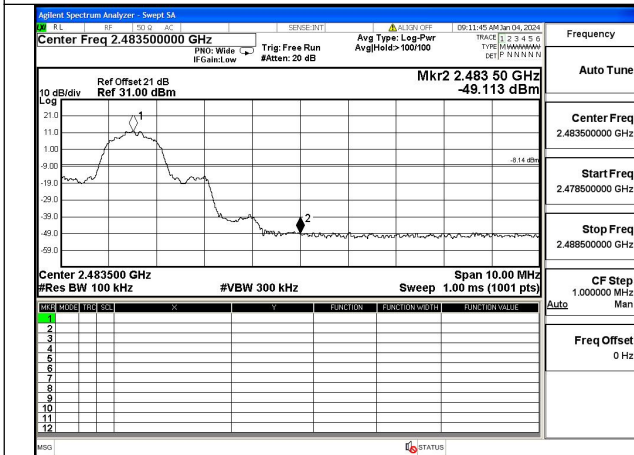
Test Mode: π /4DQPSK



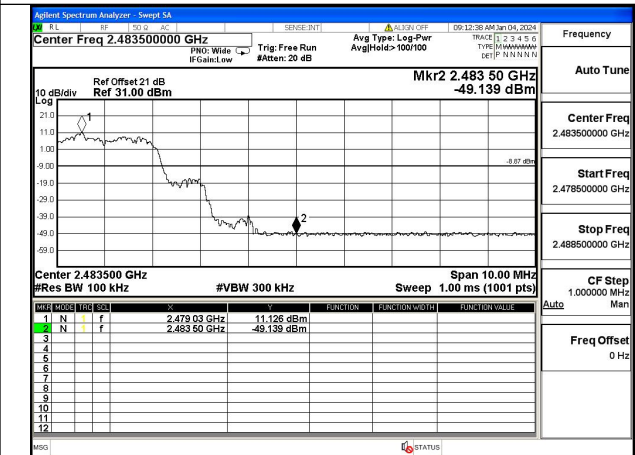
CH0(Hopping off)



CH0(Hopping on)

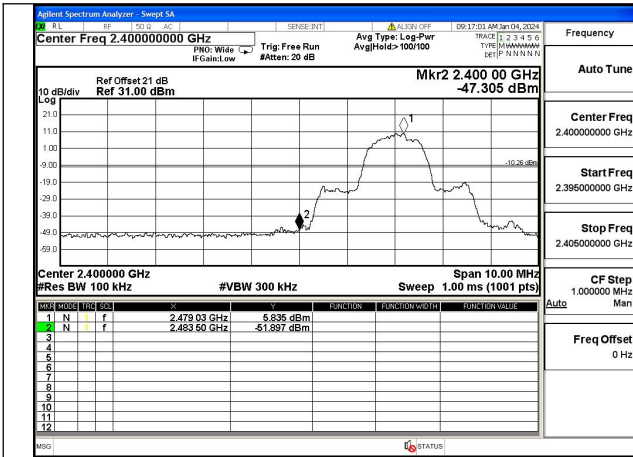


CH78(Hopping off)

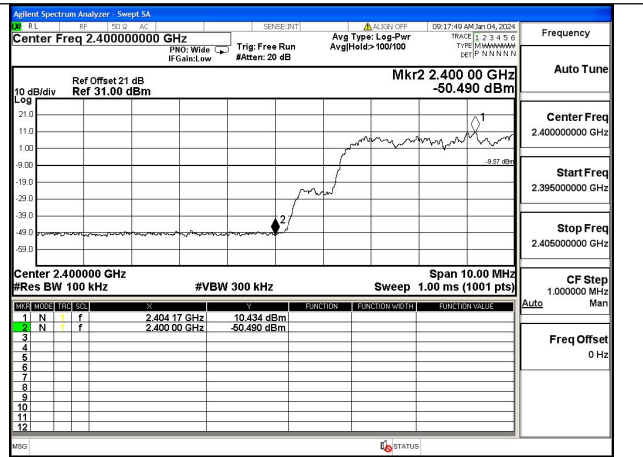


CH78(Hopping on)

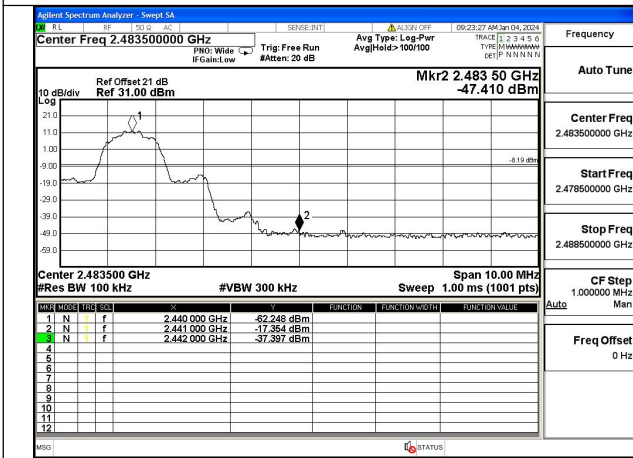
Test Mode: 8DPSK



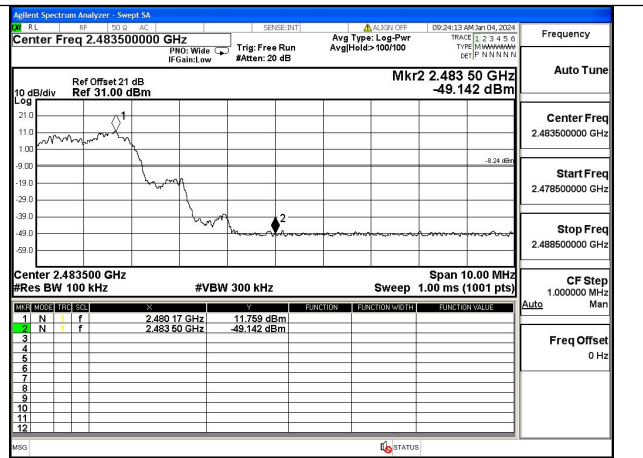
CH0(Hopping off)



CH0(Hopping on)



CH78(Hopping off)



CH78(Hopping on)

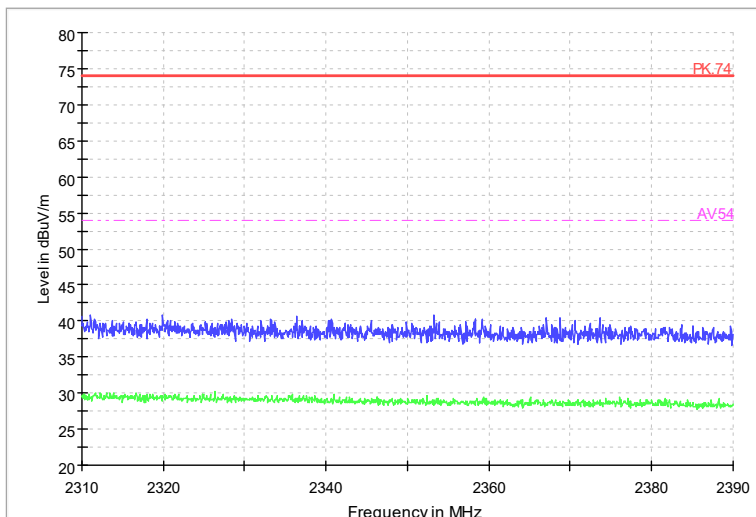
APPENDIX B – TEST DATA OF RADIATED EMISSION

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

After comparison,the worst case attitude is EUT lay down



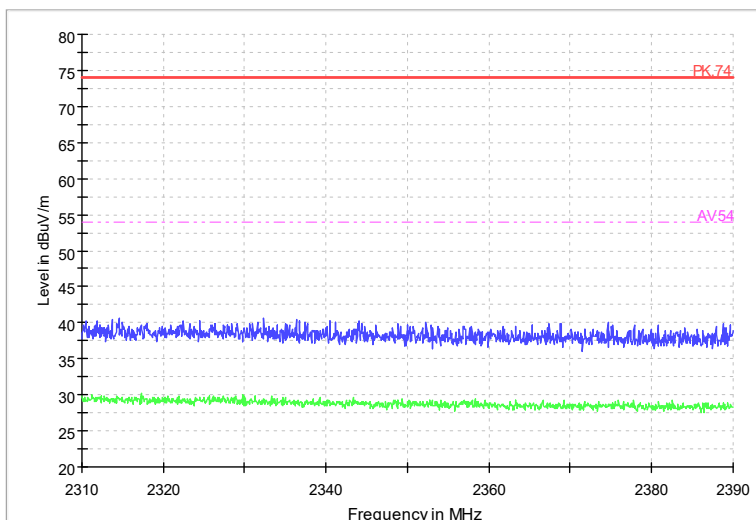
Comment

Radiated Emission Band Edge

Channel No.:0

Test Mode: GFSK

Polarization: V

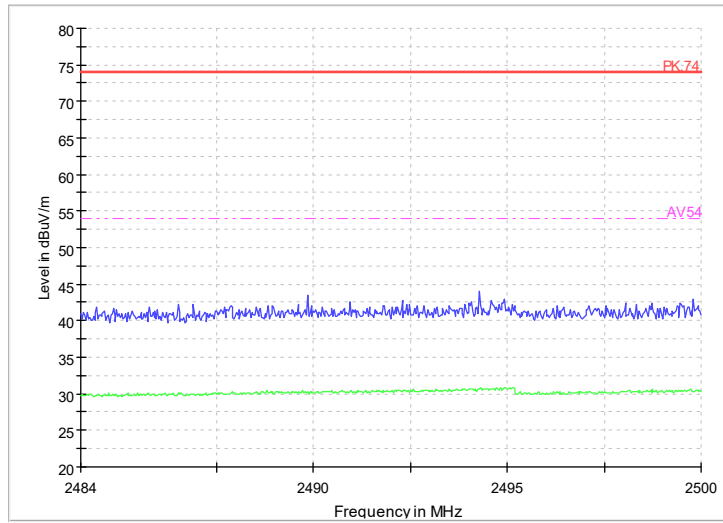


Comment

Radiated Emission Band Edge

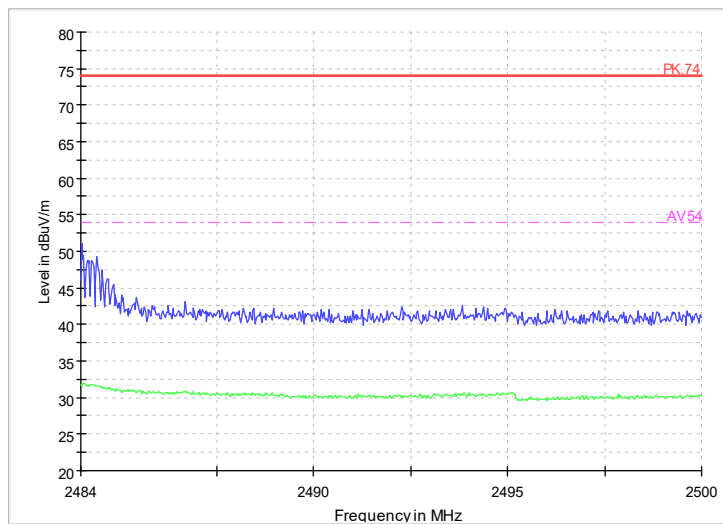
Channel No.:0

Test Mode: GFSK
Polarization: H



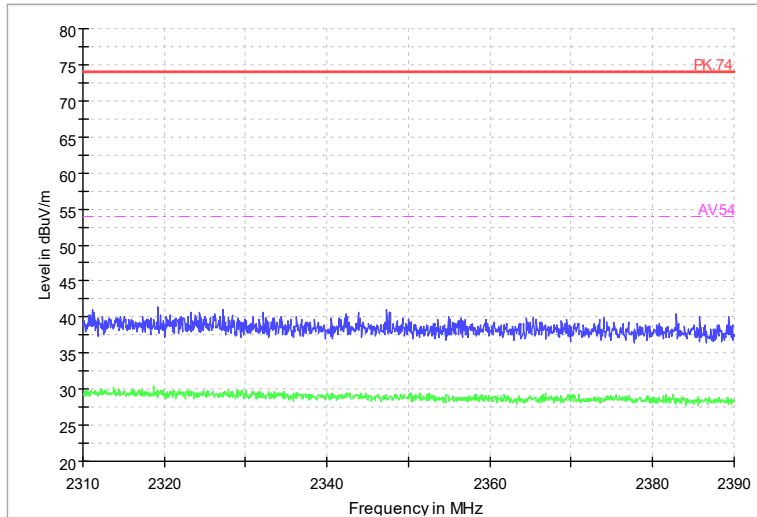
Comment

Radiated Emission Band Edge
Channel No.:78
Test Mode: GFSK
Polarization: V



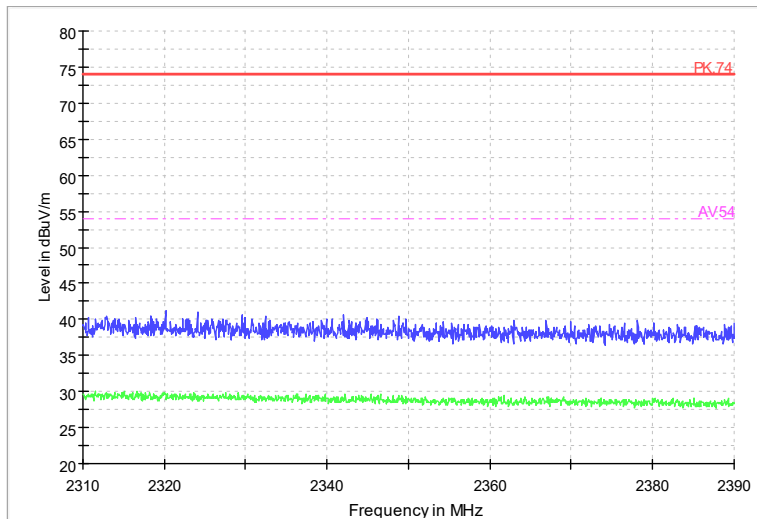
Comment

Radiated Emission Band Edge
Channel No.:78
Test Mode: GFSK
Polarization: H



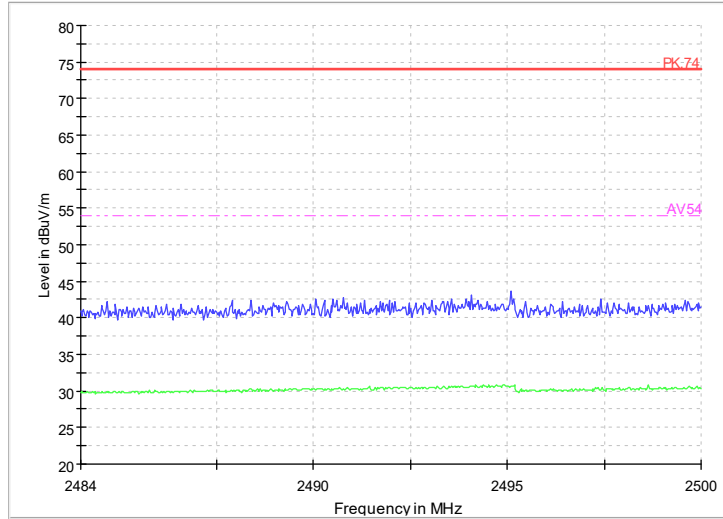
Comment

Radiated Emission Band Edge
Channel No.:0
Test Mode: $\pi/4$ DQPSK
Polarization: V



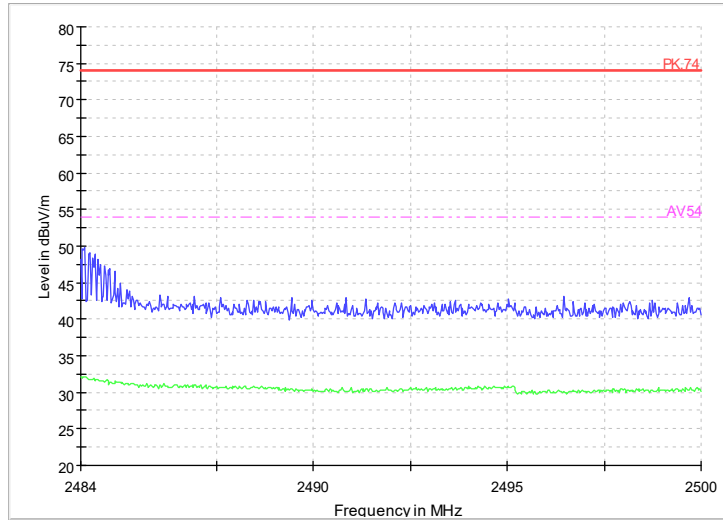
Comment

Radiated Emission Band Edge
Channel No.:0
Test Mode: $\pi/4$ DQPSK
Polarization: H



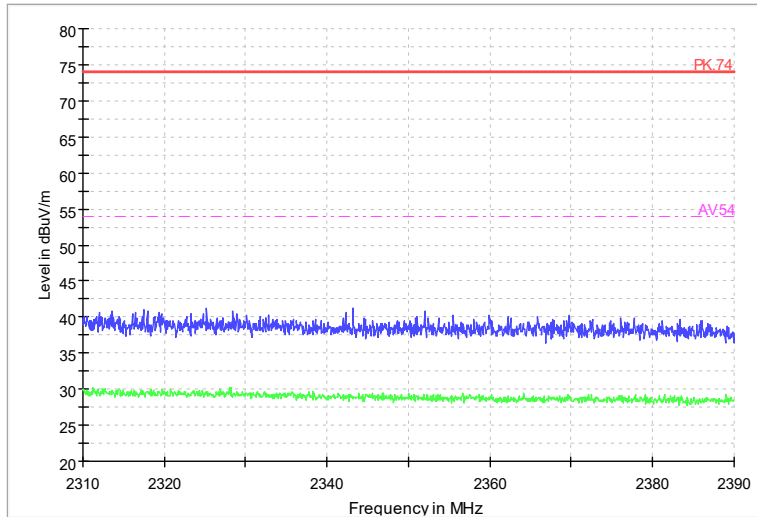
Comment

Radiated Emission Band Edge
Channel No.:78
Test Mode: $\pi/4$ DQPSK
Polarization: V



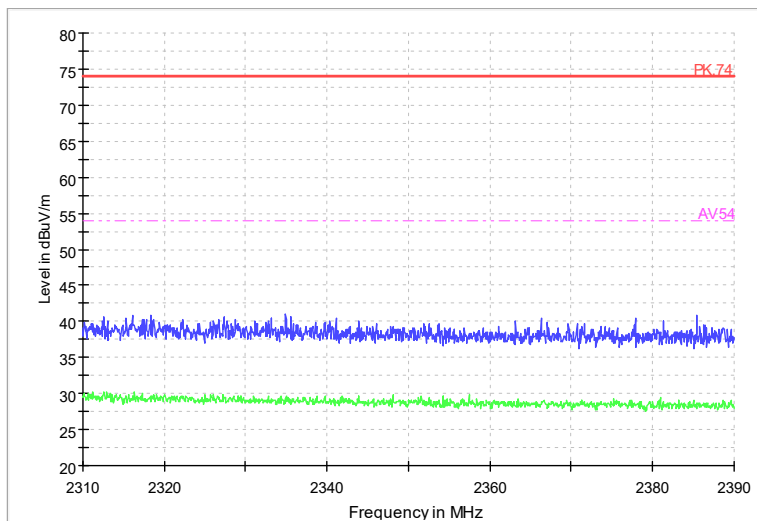
Comment

Radiated Emission Band Edge
Channel No.:78
Test Mode: $\pi/4$ DQPSK
Polarization: H



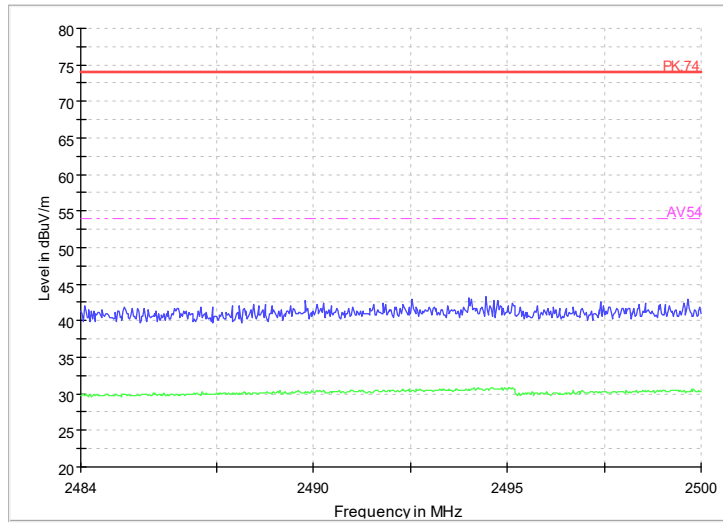
Comment

Radiated Emission Band Edge
Channel No.:0
Test Mode: 8DPSK
Polarization: V



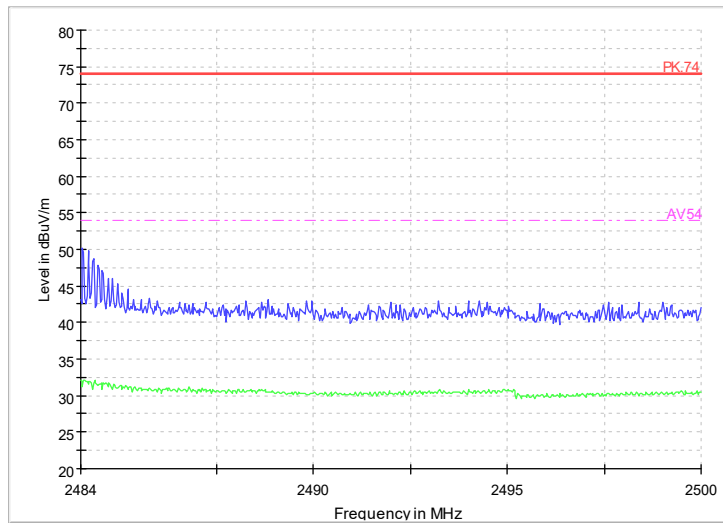
Comment

Radiated Emission Band Edge
Channel No.:0
Test Mode: 8DPSK
Polarization: H



Comment

Radiated Emission Band Edge
Channel No.:78
Test Mode: 8DPSK
Polarization: V



Comment

Radiated Emission Band Edge
Channel No.:78
Test Mode: 8DPSK
Polarization: H

Radiated Emission

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:

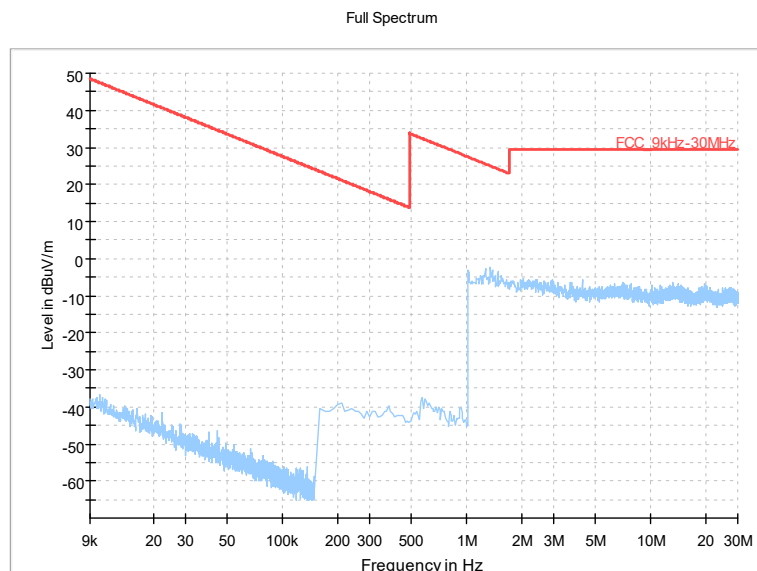
Result= $P_{mea} + A_{Rpl}$

Sample calculation: $(6.65dB\mu V/m) = (25.05dB\mu V) + (-18.4dB/m)$, the corresponding frequency is 45.568500MHz.

For GFSK

Channel No.:0

Frequency (MHz)	Result (dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
45.568500	6.65	-18.4	25.05	Vertical	40.00	33.35
85.532500	4.99	-20.2	25.19	Vertical	40.00	35.01
110.461500	5.99	-18.9	24.89	Vertical	43.50	37.51
284.819000	7.35	-16.3	23.65	Vertical	46.00	38.65
517.134000	12.38	-10.2	22.58	Vertical	46.00	33.62
923.709500	17.98	-3.1	21.08	Vertical	46.00	28.02



Frequency Range: 9kHz -30MHz

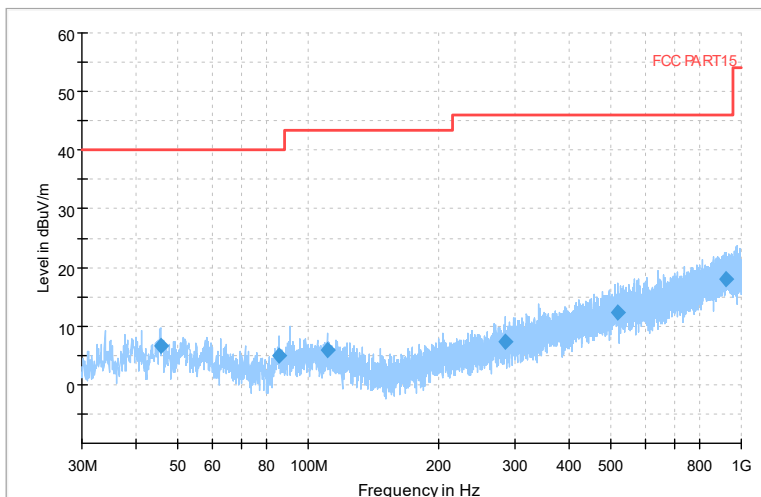
Detector: QP mode

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.

Carrier frequency (MHz): 2402

Channel No.:0

Full Spectrum

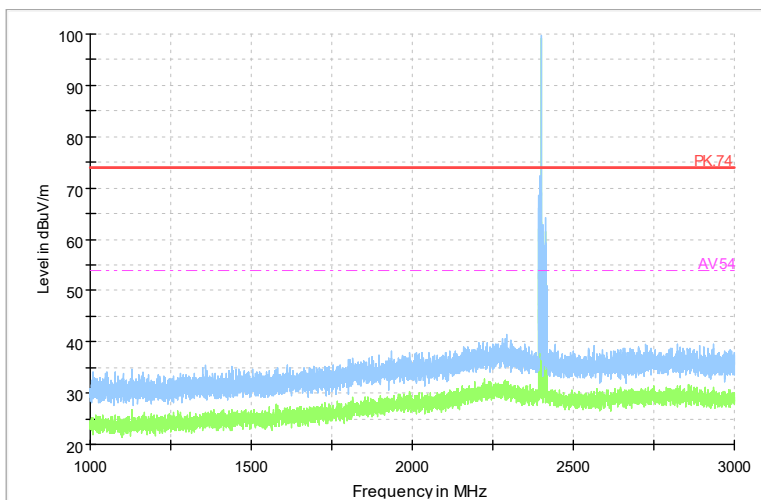


Comment

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

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.

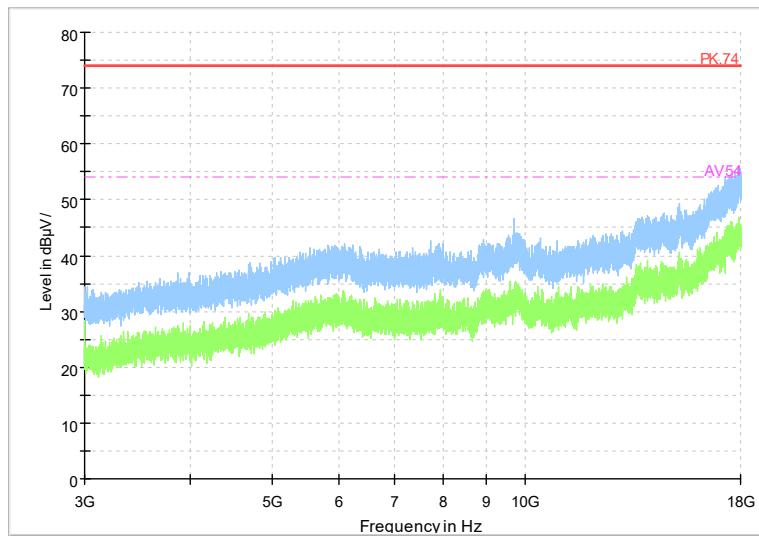
Full Spectrum



Comment

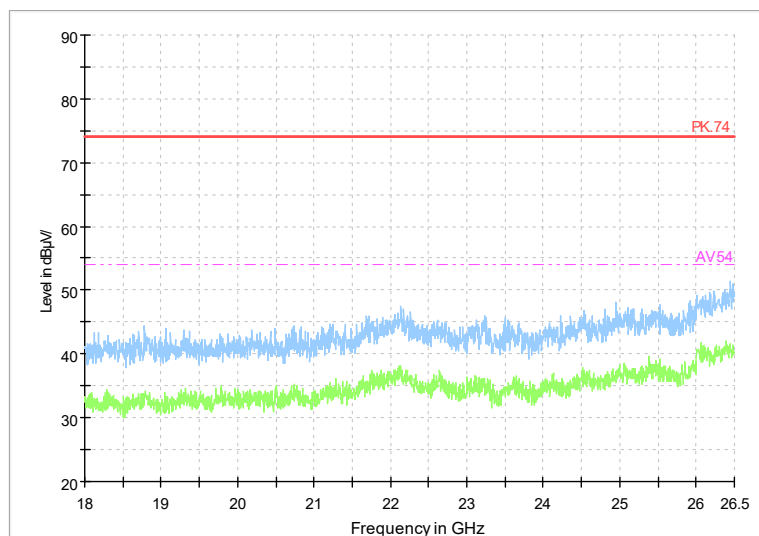
Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: GFSK

Full Spectrum



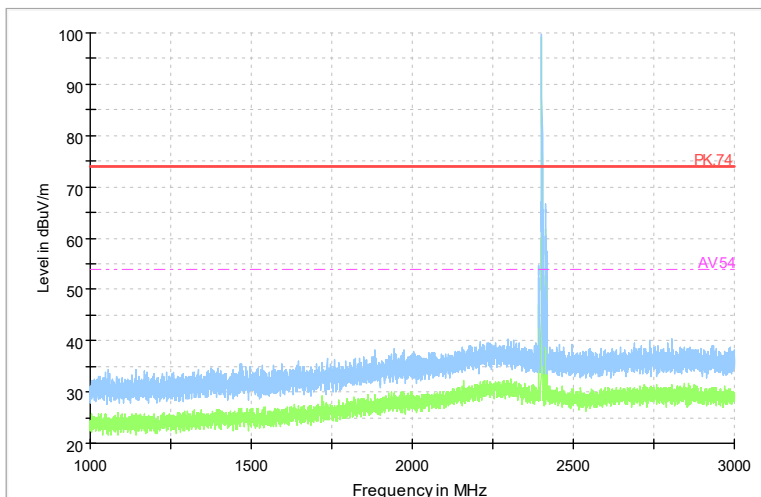
Frequency Range: 3GHz-18GHz
Detector: Av mode and PK mode
Modulation type: GFSK

Full Spectrum



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

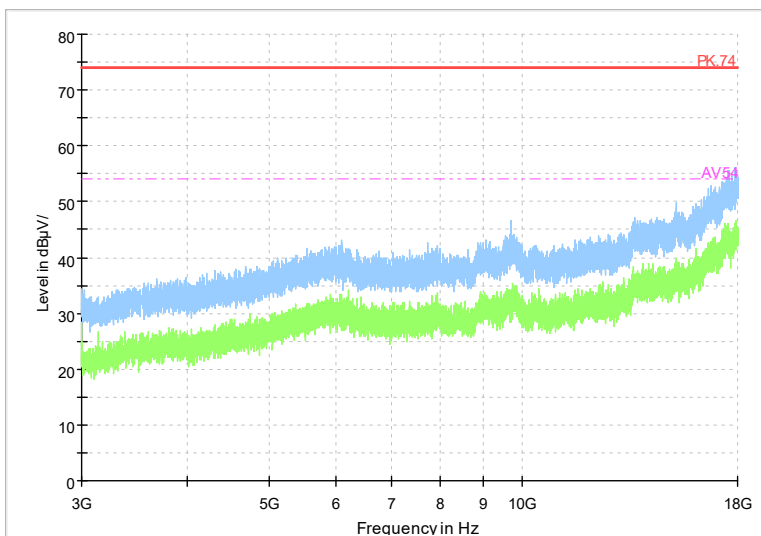
Full Spectrum



Comment

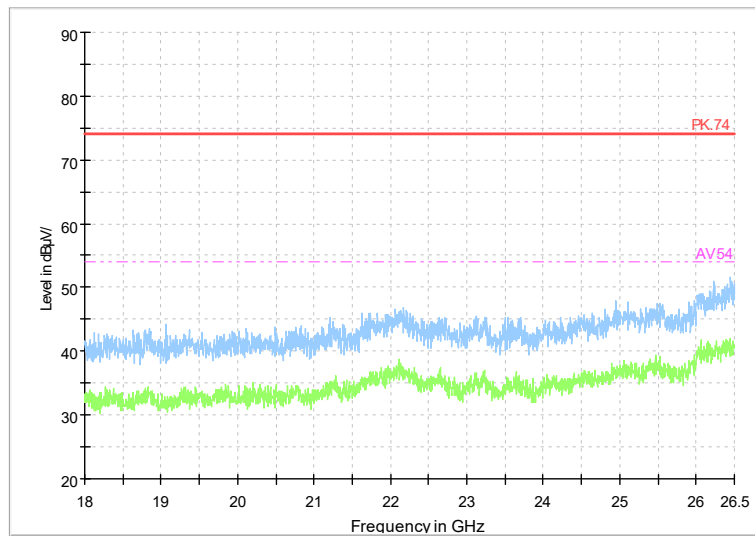
Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: $\pi/4$ DQPSK

Full Spectrum



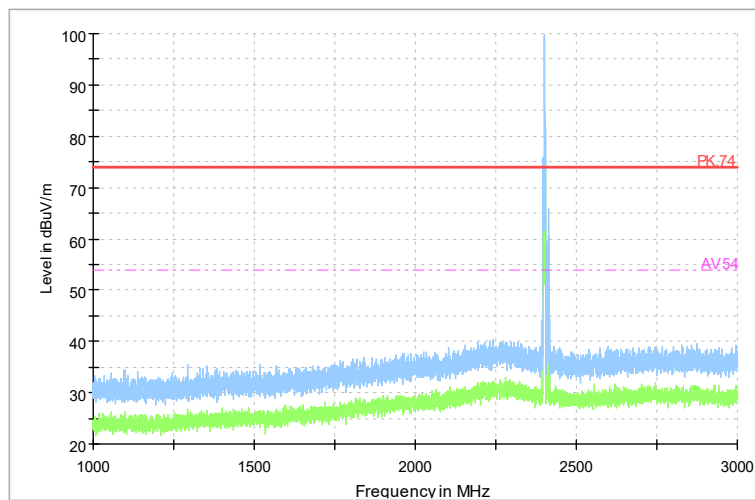
Frequency Range: 3GHz-18GHz
Detector: Av mode and PK mode
Modulation type: $\pi/4$ DQPSK

Full Spectrum



Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: $\pi/4$ DQPSK

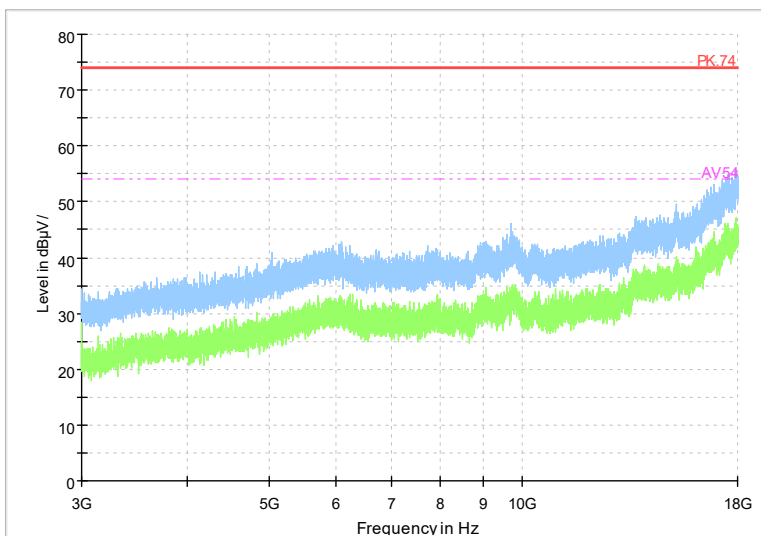
Full Spectrum



Comment

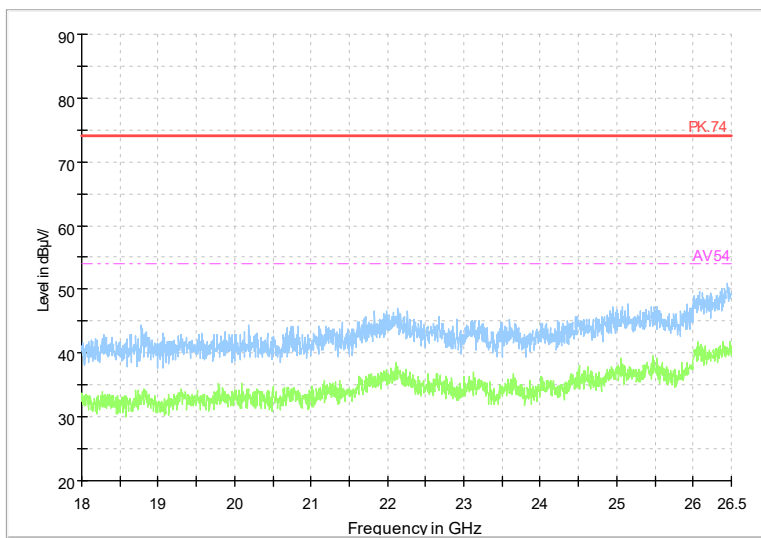
Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: 8DPSK

Full Spectrum



Frequency Range: 3GHz-18GHz
Detector: Av mode and PK mode
Modulation type: 8DPSK

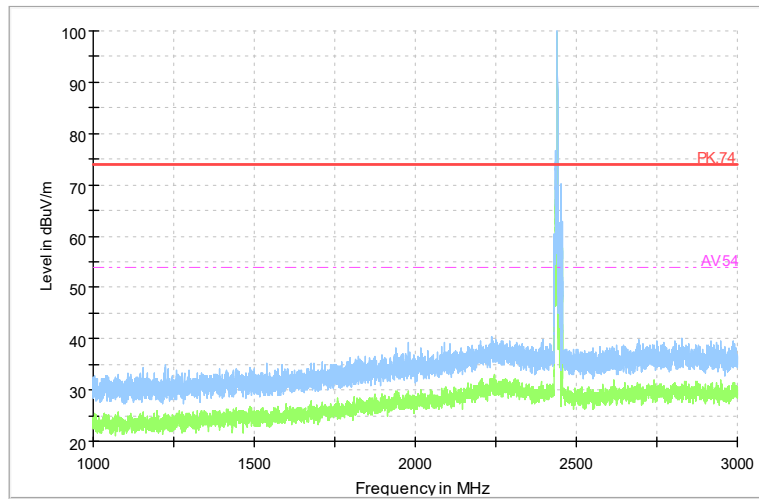
Full Spectrum



Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: 8DPSK

Carrier frequency (MHz): 2440
Channel No.:39

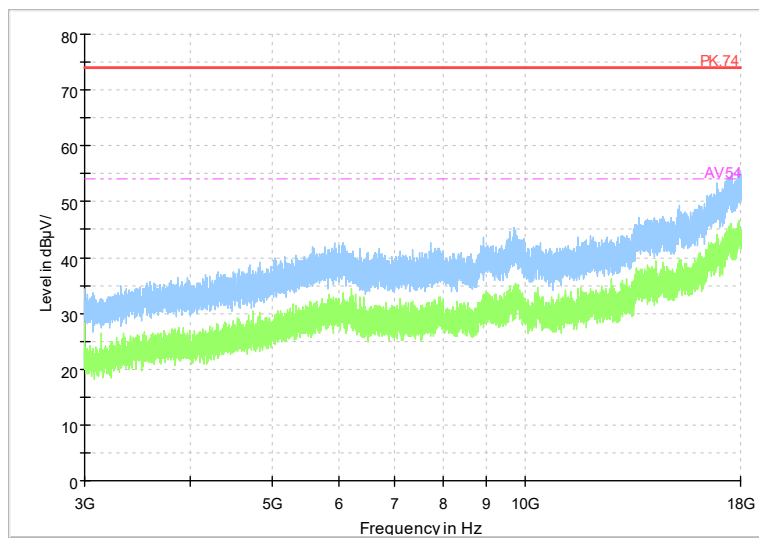
Full Spectrum



Comment

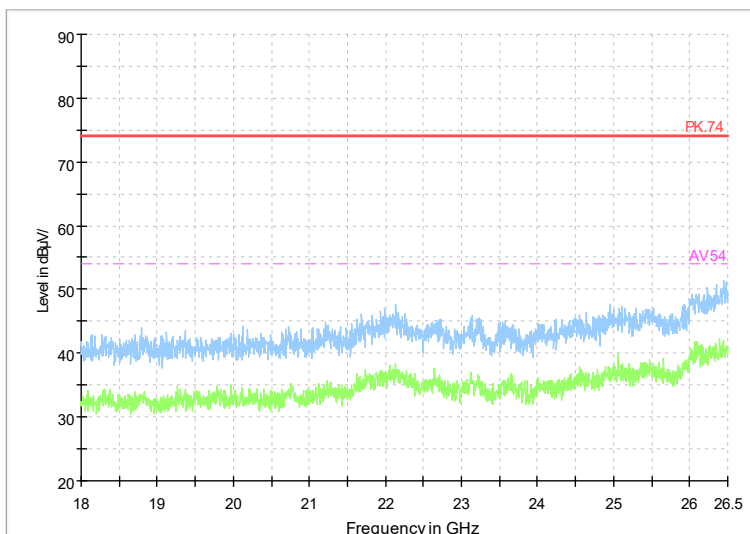
Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: GFSK

Full Spectrum



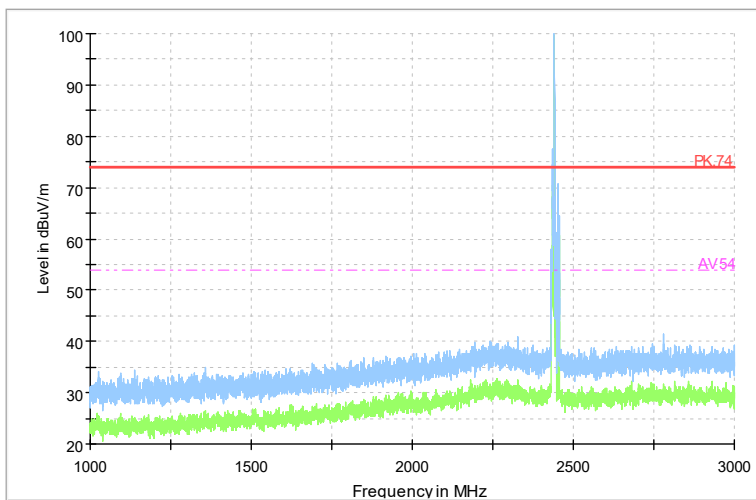
Frequency Range: 3GHz-18GHz
Detector: Av mode and PK mode
Modulation type: GFSK

Full Spectrum



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

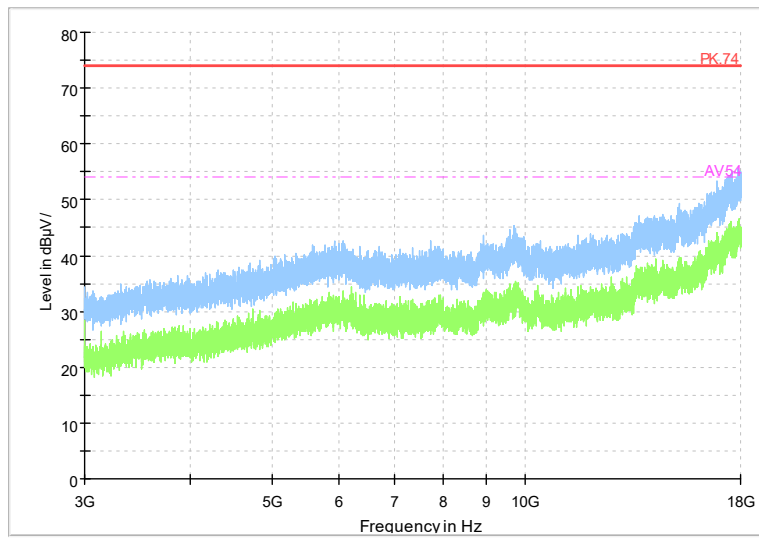
Full Spectrum



Comment

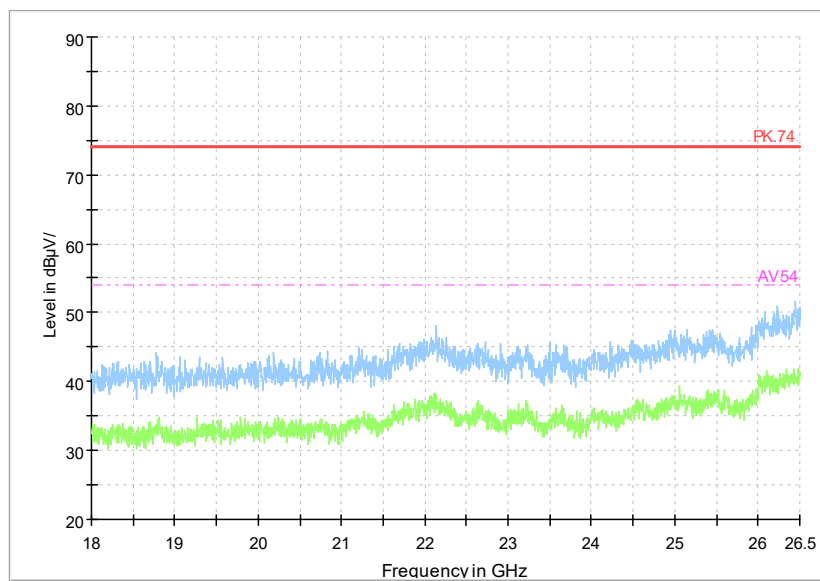
Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: $\pi/4$ DQPSK

Full Spectrum



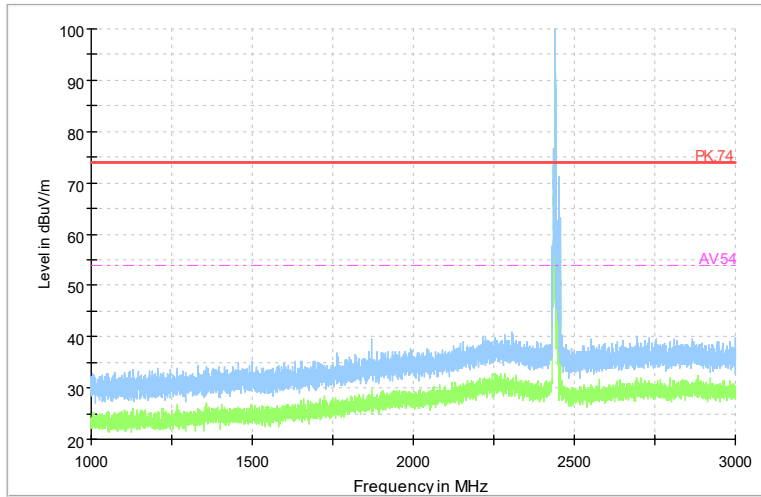
Frequency Range: 3GHz-18GHz
Detector: Av mode and PK mode
Modulation type: $\pi/4$ DQPSK

Full Spectrum



Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: $\pi/4$ DQPSK

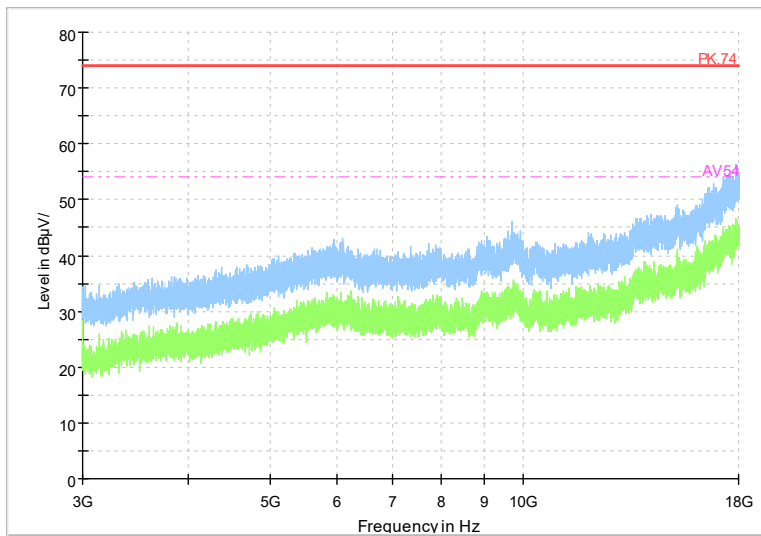
Full Spectrum



Comment

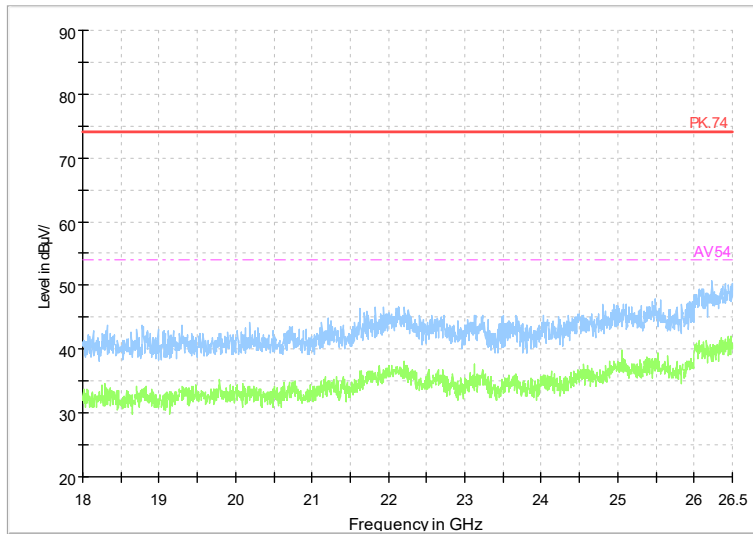
Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: 8DPSK

Full Spectrum



Frequency Range: 3GHz-18GHz
Detector: Av mode and PK mode
Modulation type: 8DPSK

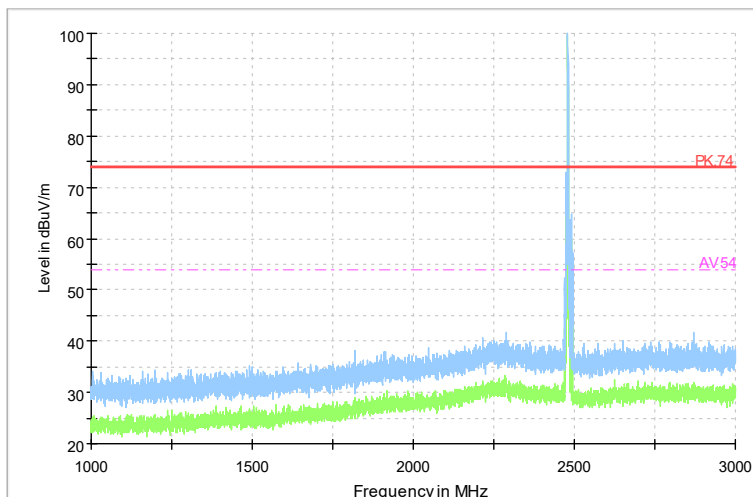
Full Spectrum



Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: 8DPSK

Carrier frequency (MHz): 2480
Channel No.:78

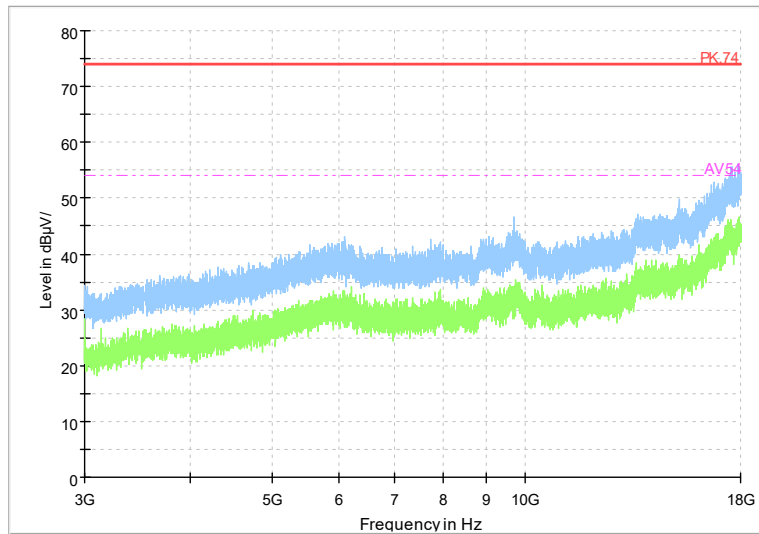
Full Spectrum



Comment

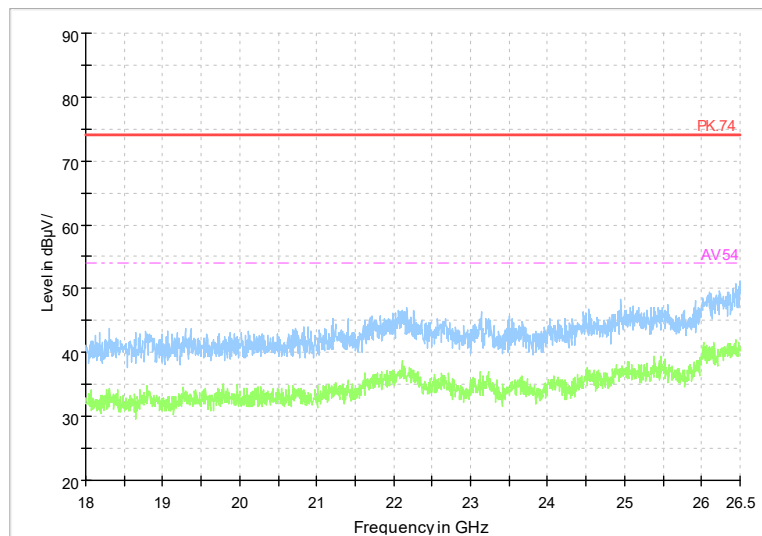
Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: GFSK

Full Spectrum



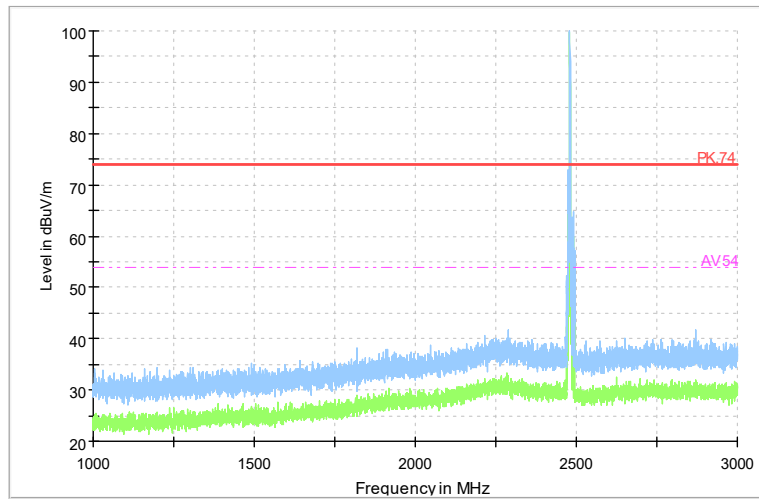
Frequency Range: 3GHz-18GHz
Detector: Av mode and PK mode
Modulation type: GFSK

Full Spectrum



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

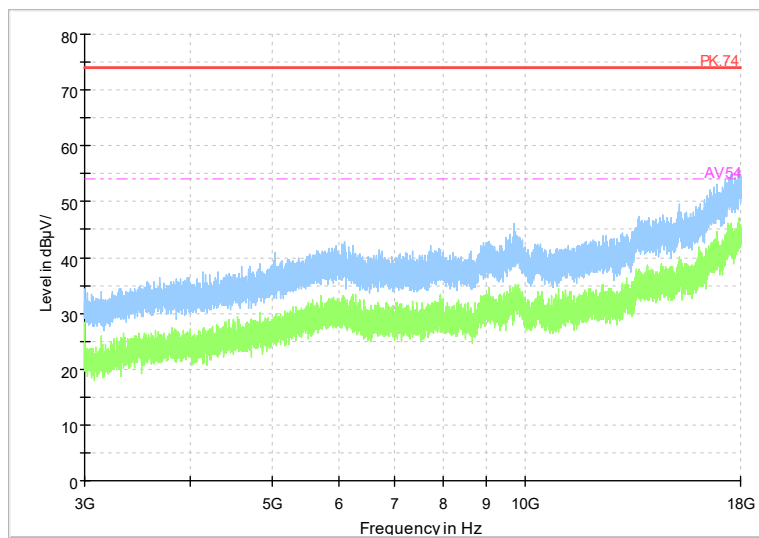
Full Spectrum



Comment

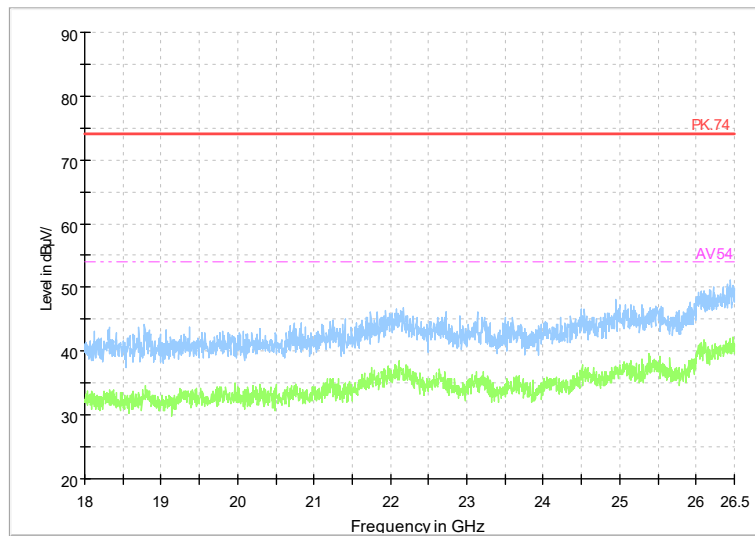
Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: $\pi/4$ DQPSK

Full Spectrum



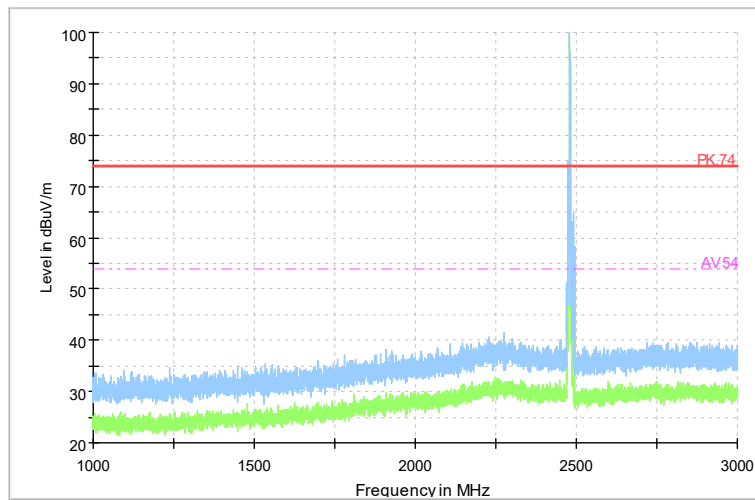
Frequency Range: 3GHz-18GHz
Detector: Av mode and PK mode
Modulation type: $\pi/4$ DQPSK

Full Spectrum



Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: $\pi/4$ DQPSK

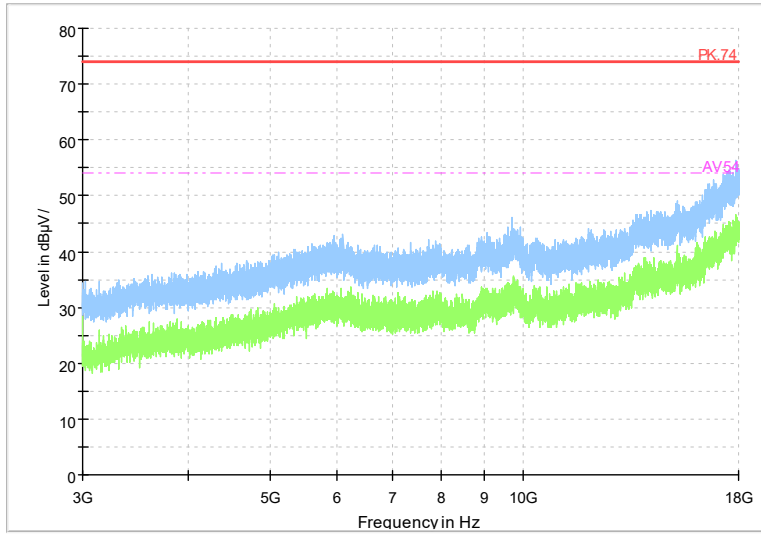
Full Spectrum



Comment

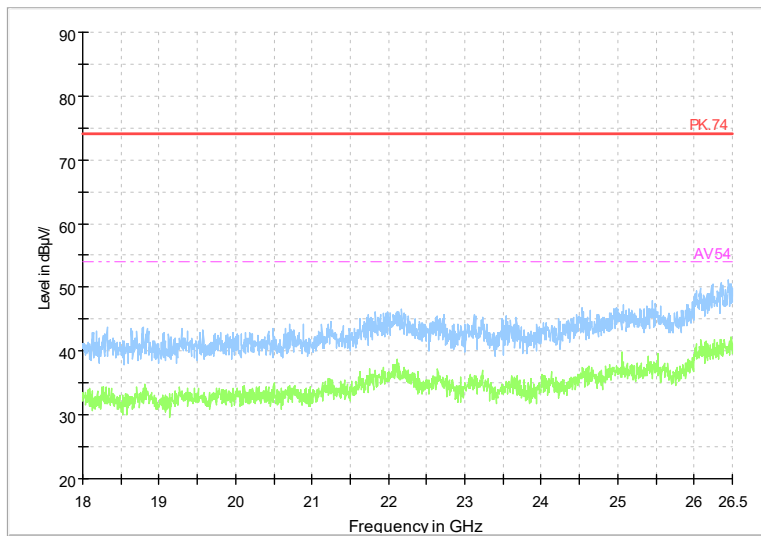
Frequency Range: 1GHz-3GHz
Detector: Av mode and PK mode
Modulation type: 8DPSK

Full Spectrum



Frequency Range: 3GHz-18GHz
Detector: Av mode and PK mode
Modulation type: 8DPSK

Full Spectrum



Frequency Range: 18GHz-26GHz
Detector: Av mode and PK mode
Modulation type: 8DPSK

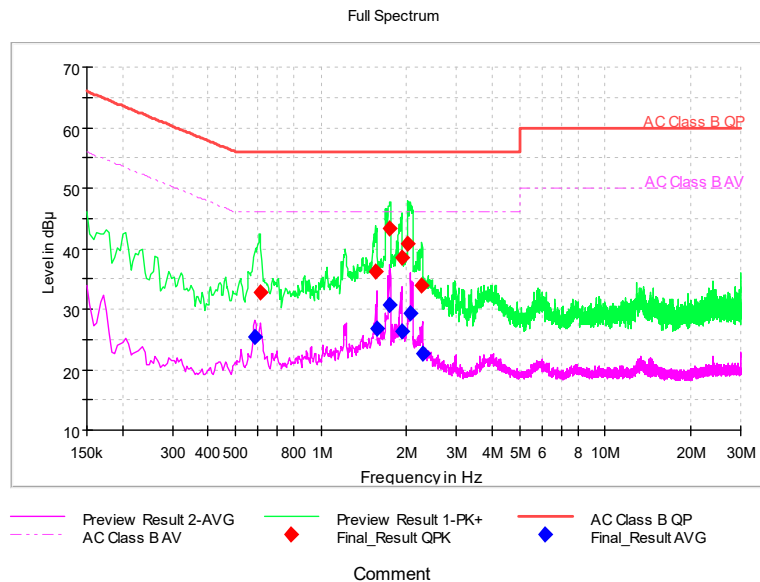
AC Power line Conducted Emission

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: $(25.39dB\mu V) = (-4.41dB\mu V) + (29.8 dB)$, the corresponding frequency is 0.584957MHz.



Comment

L+N Line

MEASUREMENT RESULT:

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PmeaQuasiPeak (dBμV)	PmeaAverage (dBμV)
0.584957	---	25.39	46.00	20.61	L1	29.8	---	-4.41
0.610543	32.85	---	56.00	23.15	L1	29.8	3.05	---
1.548686	36.16	---	56.00	19.84	L1	29.9	6.26	---
1.574272	---	26.85	46.00	19.15	L1	29.9	---	-3.05
1.749107	---	30.61	46.00	15.39	L1	29.9	---	0.71
1.749107	43.34	---	56.00	12.66	L1	29.9	13.44	---
1.923943	38.60	---	56.00	17.40	L1	29.9	8.7	---
1.923943	---	26.26	46.00	19.74	L1	29.9	---	-3.64
2.026286	40.82	---	56.00	15.18	L1	29.9	10.92	---
2.068929	---	29.39	46.00	16.61	N	29.9	---	-0.51
2.269350	33.83	---	56.00	22.17	L1	29.9	3.93	---
2.273614	---	22.54	46.00	23.46	N	29.9	---	-7.36

---End of Test Report---