

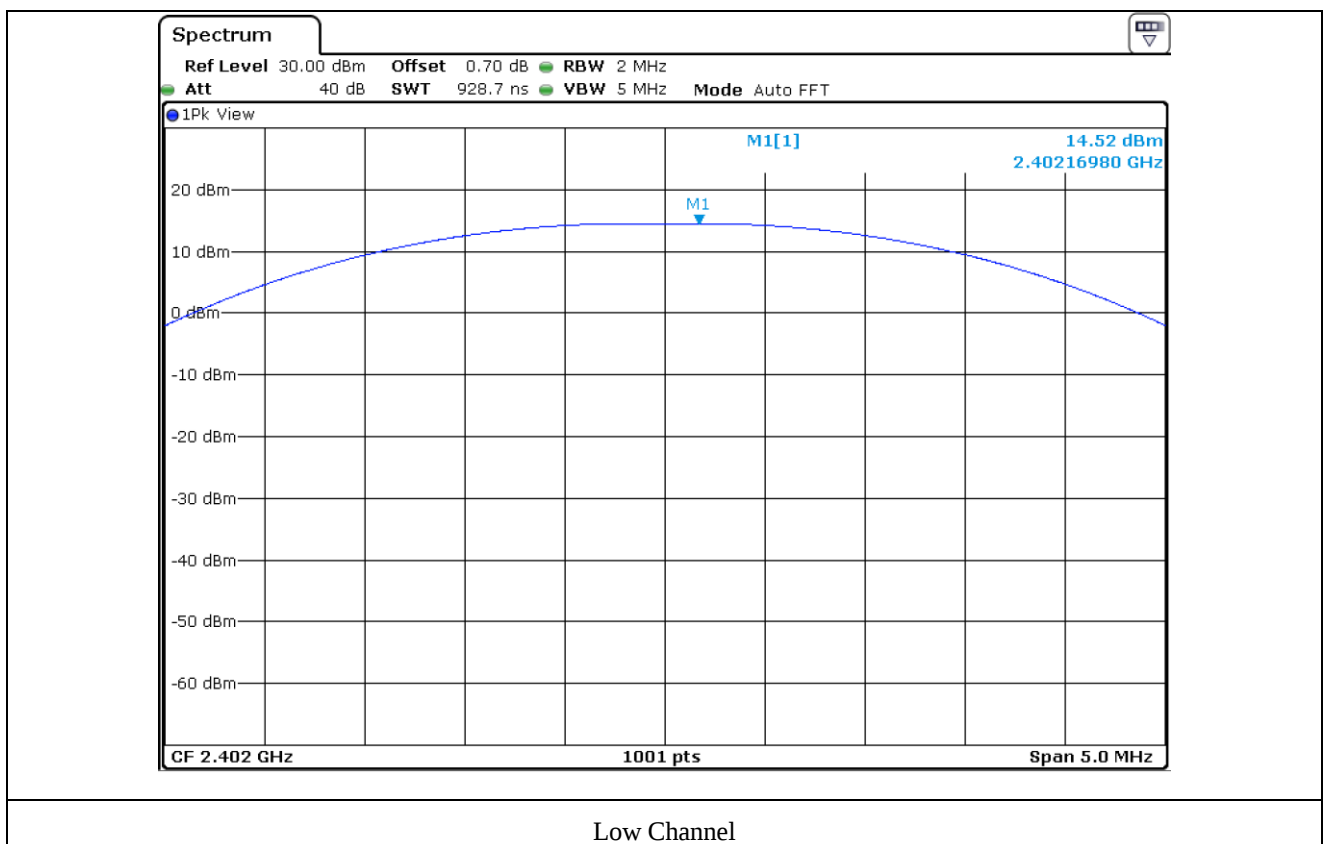
11.5 Test data for Right Earbud

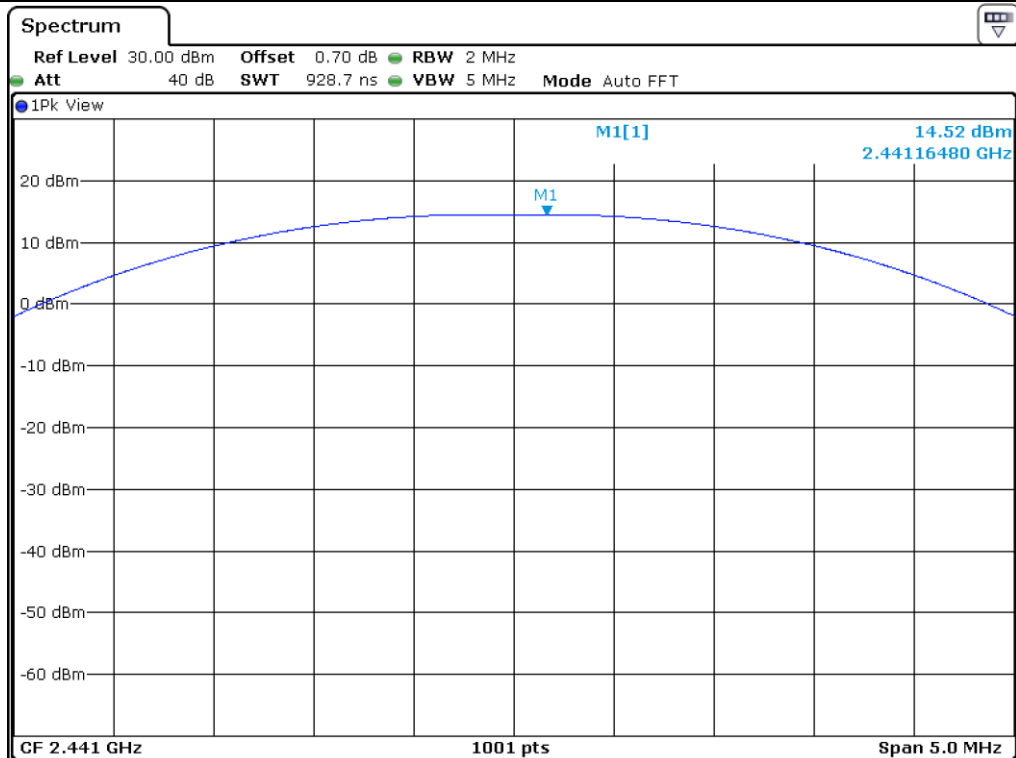
11.5.1 Test data for 1 Mbps

-. Test Result : Pass

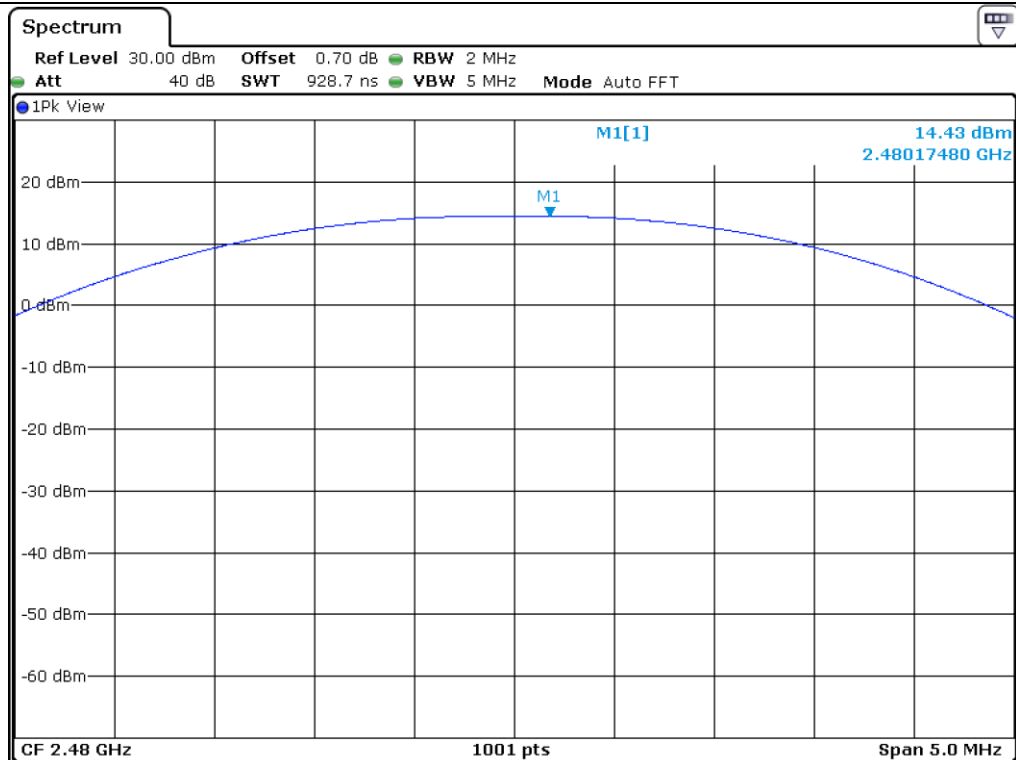
CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
LOW	2 402.00	14.52	21.00	6.48
MIDDLE	2 441.00	14.52	21.00	6.48
HIGH	2 480.00	14.43	21.00	6.57

Remark. Margin = Limit – Measured Value (=Receiver Reading + Cable Loss)





Middle Channel



High Channel

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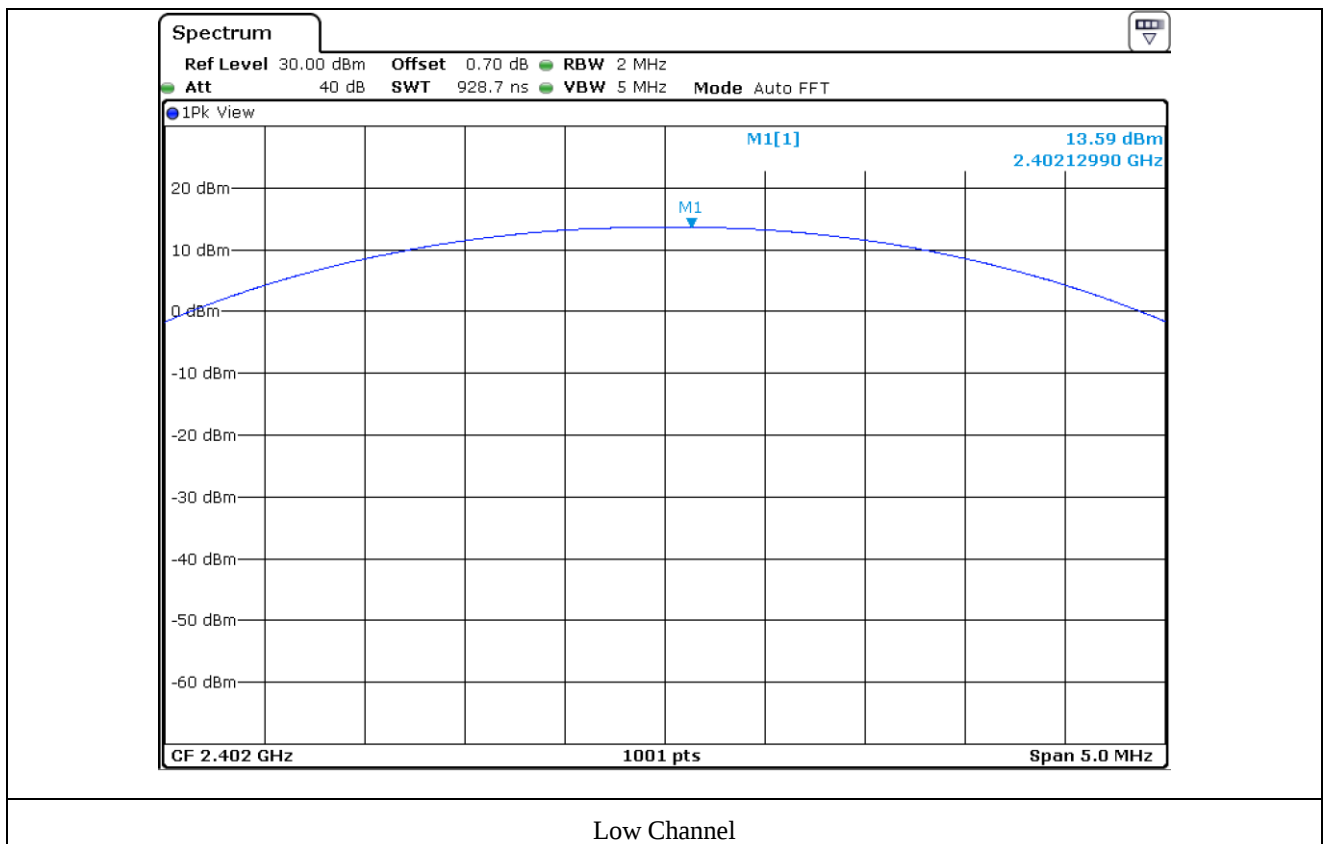
ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

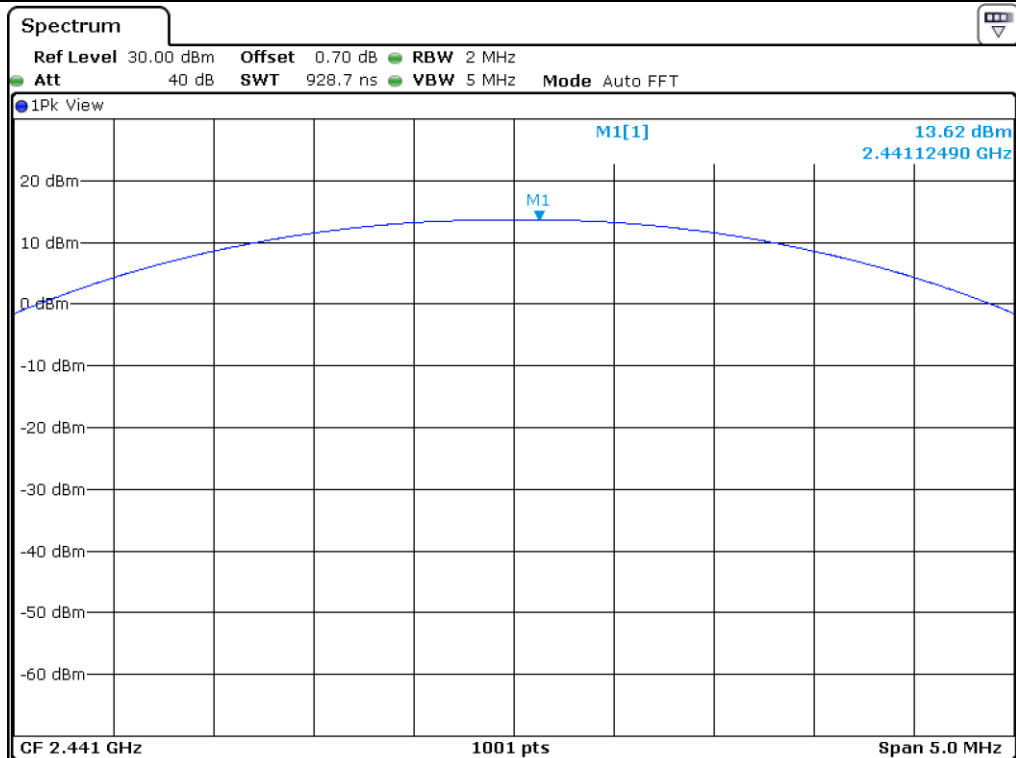
11.5.2 Test data for 2 Mbps

-. Test Result : Pass

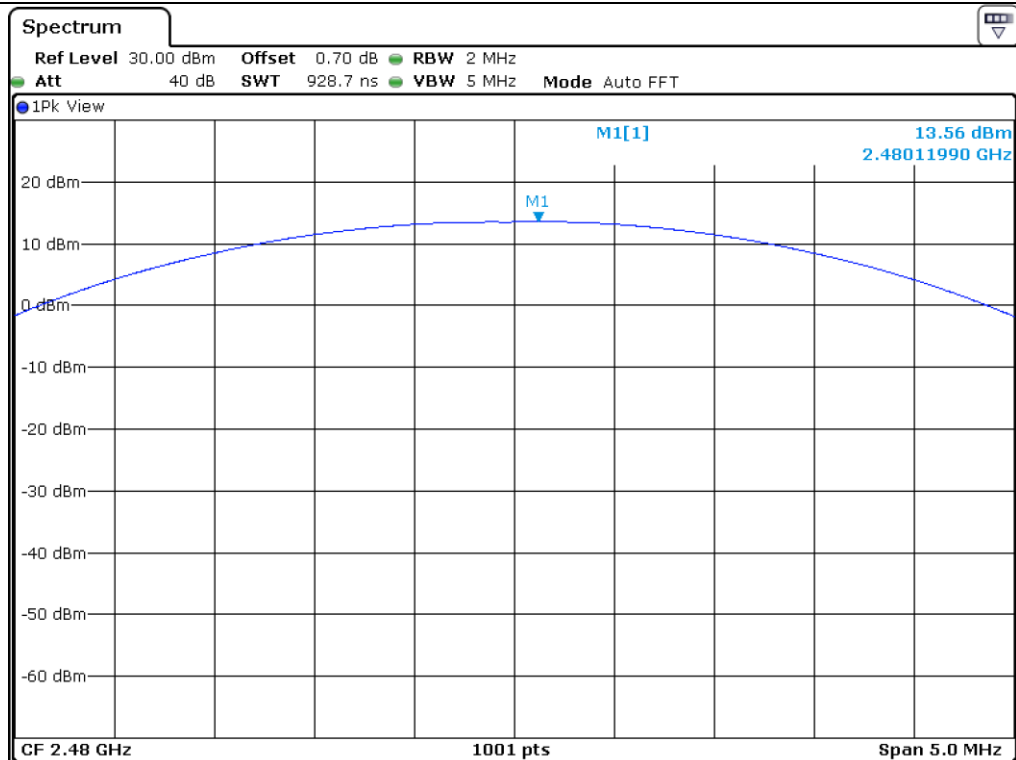
CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
LOW	2 402.00	13.59	21.00	7.41
MIDDLE	2 441.00	13.62	21.00	7.38
HIGH	2 480.00	13.56	21.00	7.44

Remark. Margin = Limit – Measured Value (=Receiver Reading + Cable Loss)





Middle Channel



High Channel

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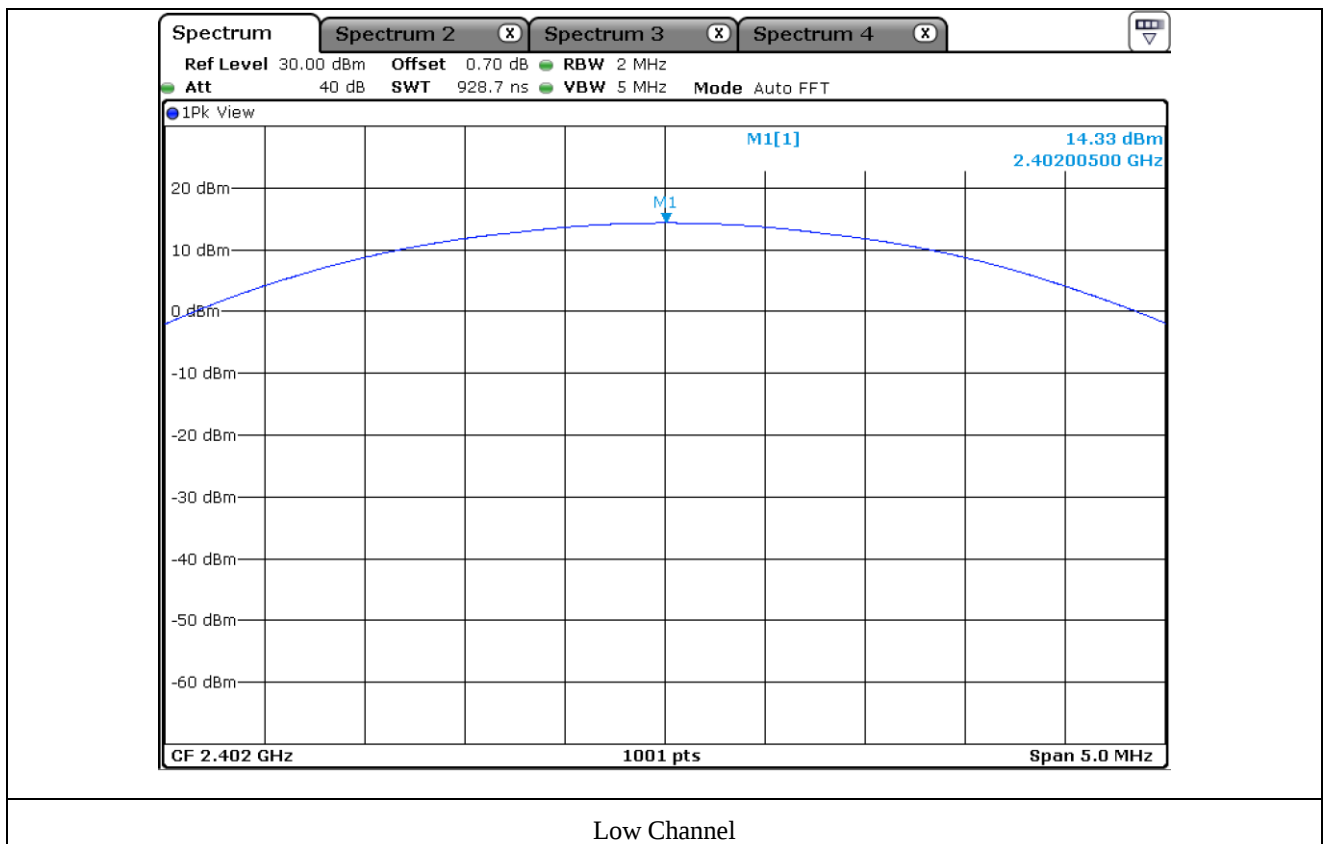
ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

11.5.3 Test data for 3 Mbps

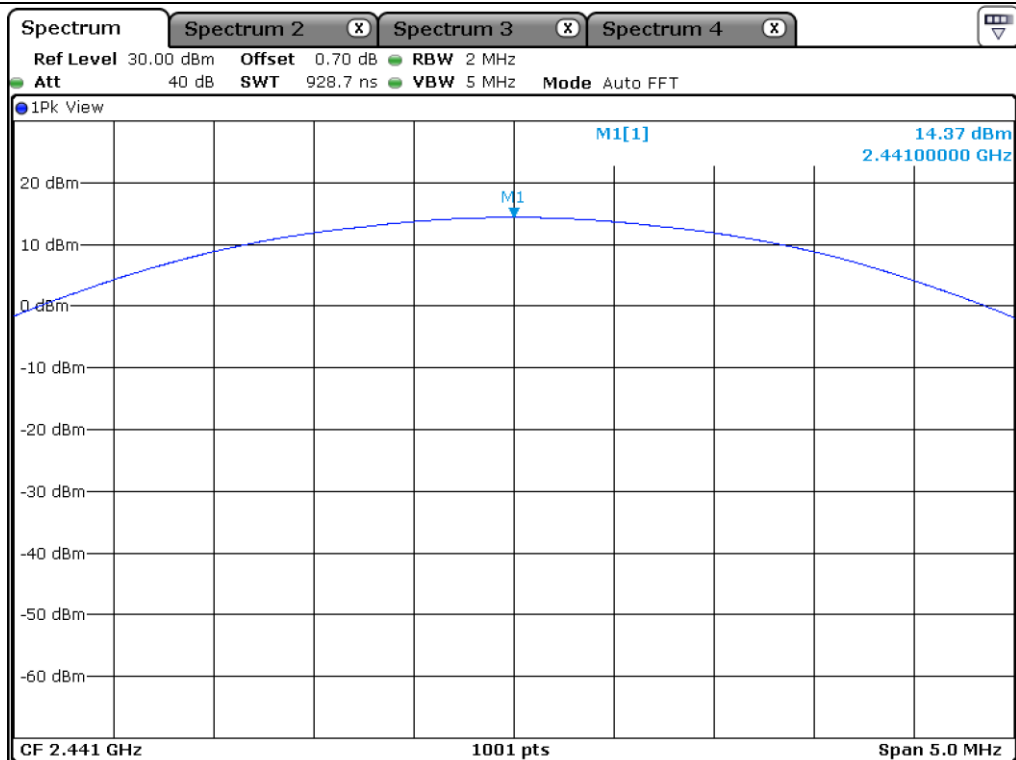
-. Test Result : Pass

CHANNEL	FREQUENCY (MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
LOW	2 402.00	14.33	21.00	6.67
MIDDLE	2 441.00	14.37	21.00	6.63
HIGH	2 480.00	14.29	21.00	6.71

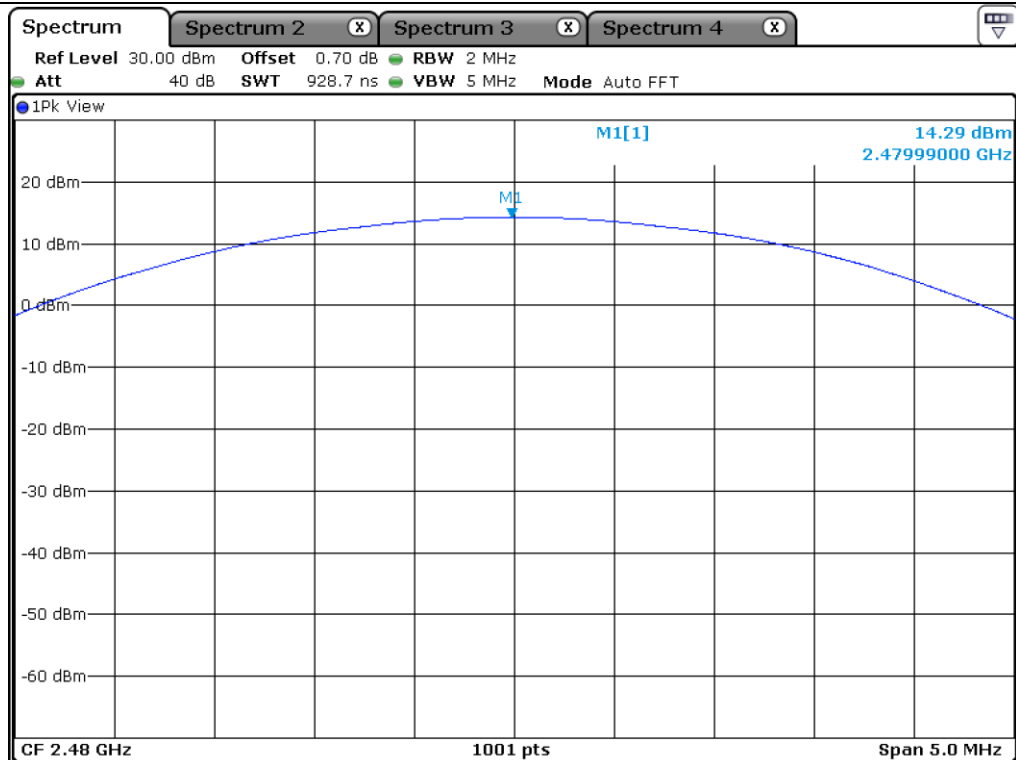
Remark. Margin = Limit – Measured Value (=Receiver Reading + Cable Loss)



Low Channel



Middle Channel



High Channel

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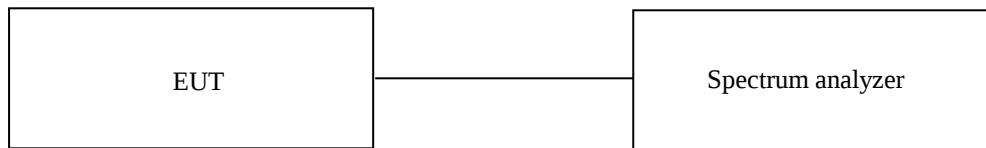
12. 100 kHz BANDWIDTH OUTSIDE THE FREQUENCY BAND

12.1 Operating environment

Temperature : 23 °C
Relative humidity : 46 % R.H.

12.2 Test set-up for conducted measurement

The antenna output of the EUT was connected to the spectrum analyzer. The resolution and video bandwidth is set to 100 kHz, and peak detection was used.



12.3 Test set-up for radiated measurement

The radiated emissions measurements were performed on the 3 m semi anechoic chamber. The EUT was placed on turntable approximately 1.5 m above the ground plane.

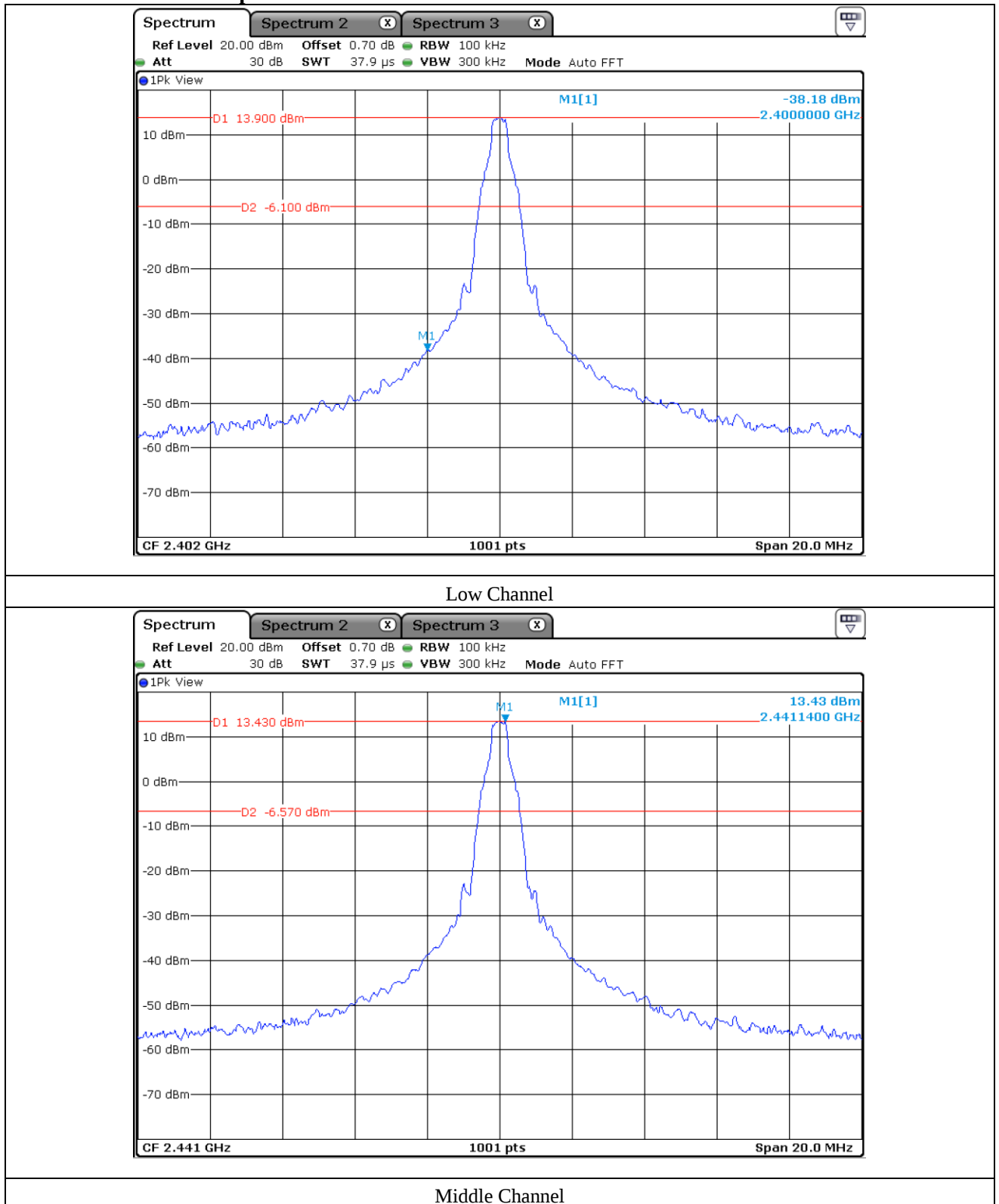
The frequency spectrum from 30 MHz to 26.5 GHz was scanned and maximum emission levels at each frequency recorded. The system was rotated 360°, and the antenna was varied in the height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for horizontal and vertical polarization of the receiving antenna.

12.4 Test Date

May 19, 2022 ~ June 07, 2022

12.5 Test data for conducted emission (Left Earbud)

12.5.1 Test data for 1 Mbps

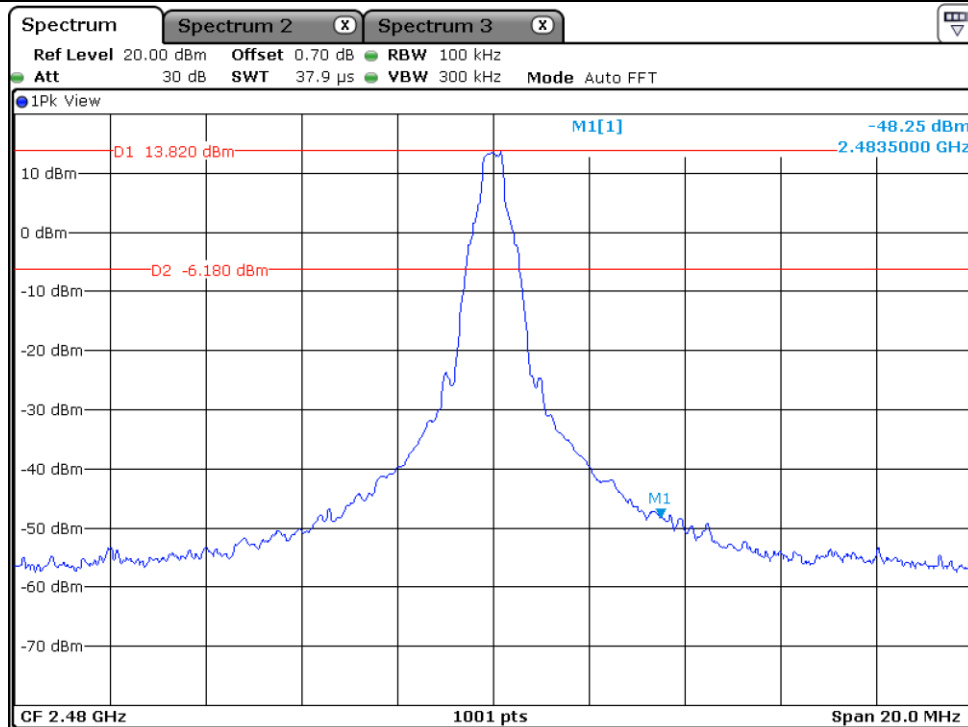


This Report is not correlated with the authentication of KOLAS

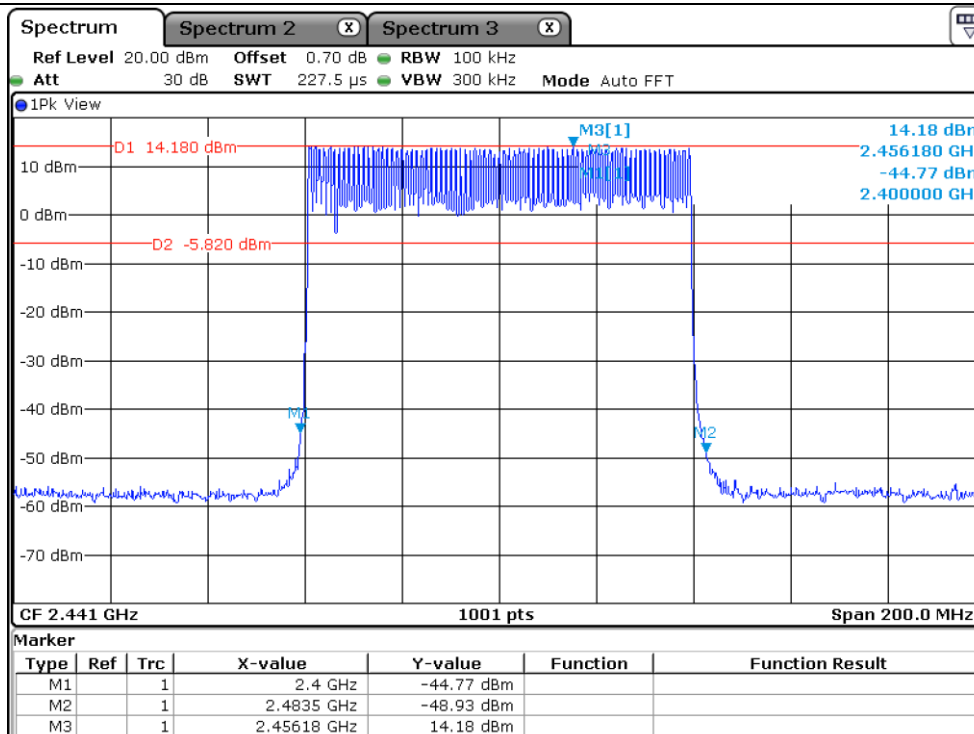
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High Channel



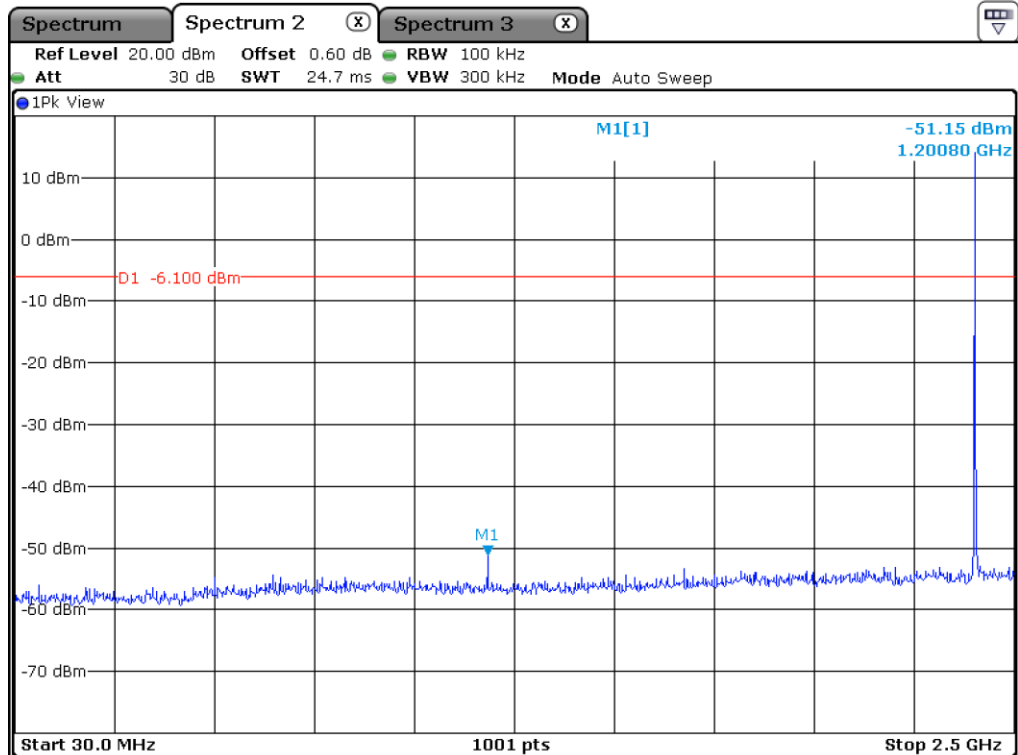
Hopping Mode

This Report is not correlated with the authentication of KOLAS

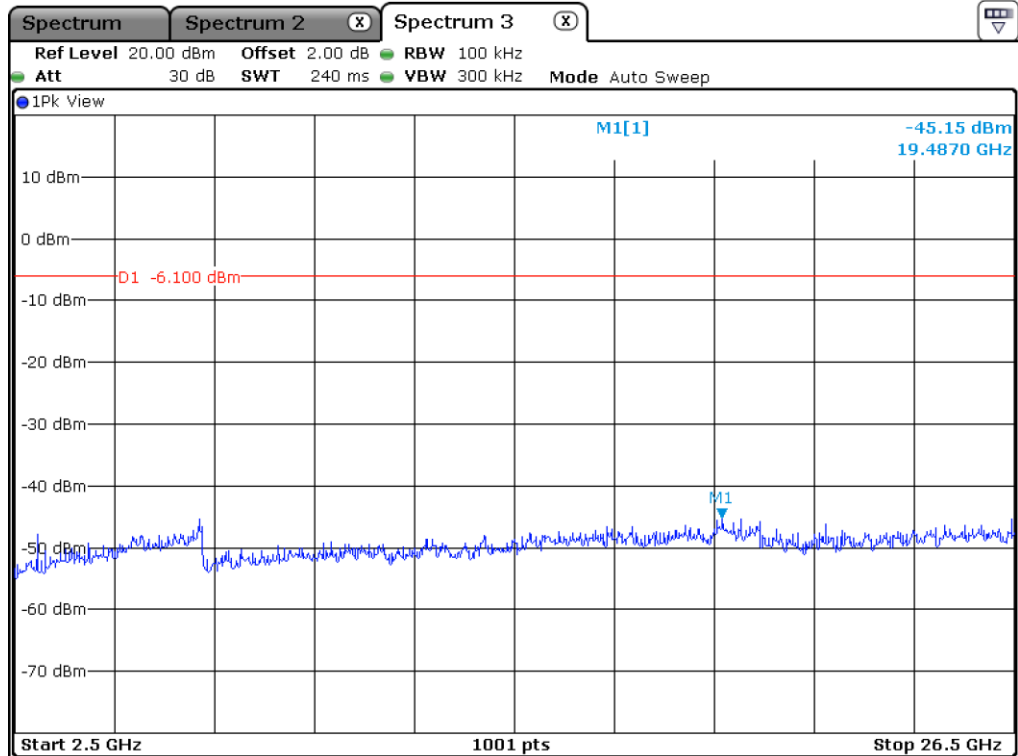
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Low Channel



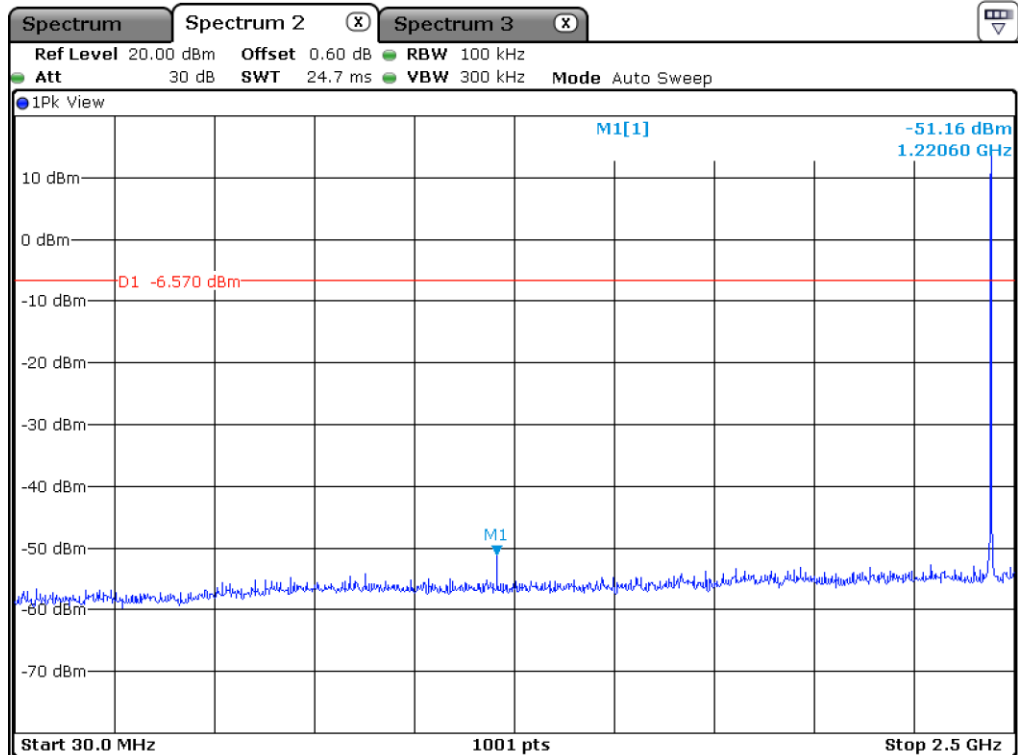
Low Channel

This Report is not correlated with the authentication of KOLAS

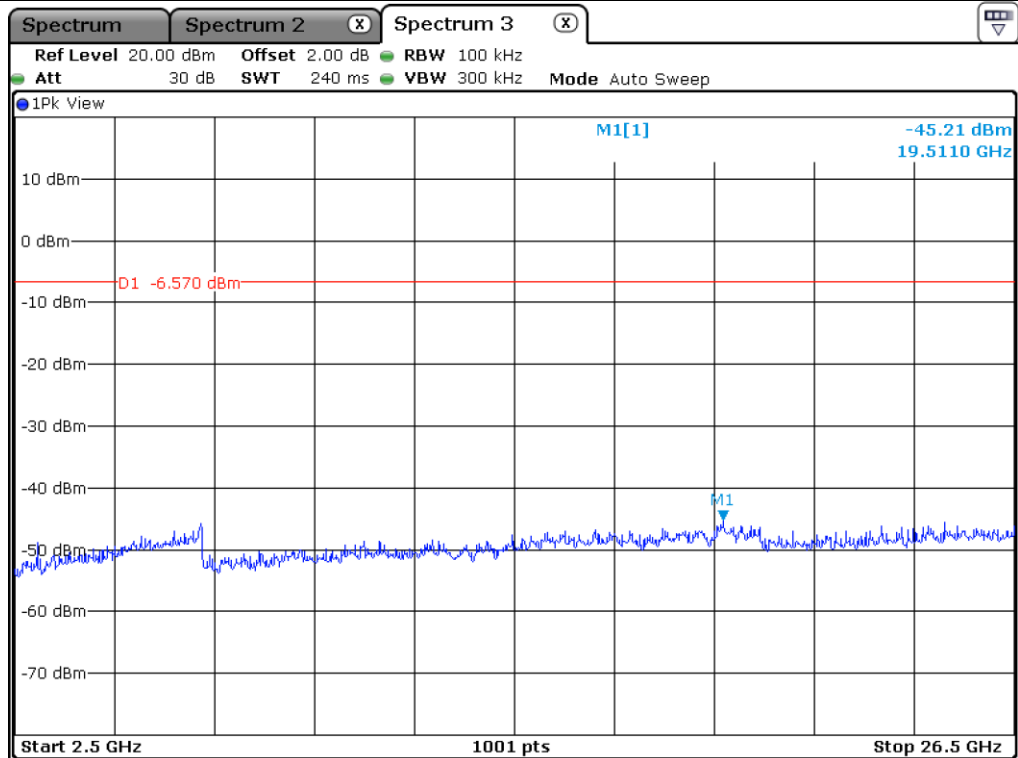
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Middle Channel



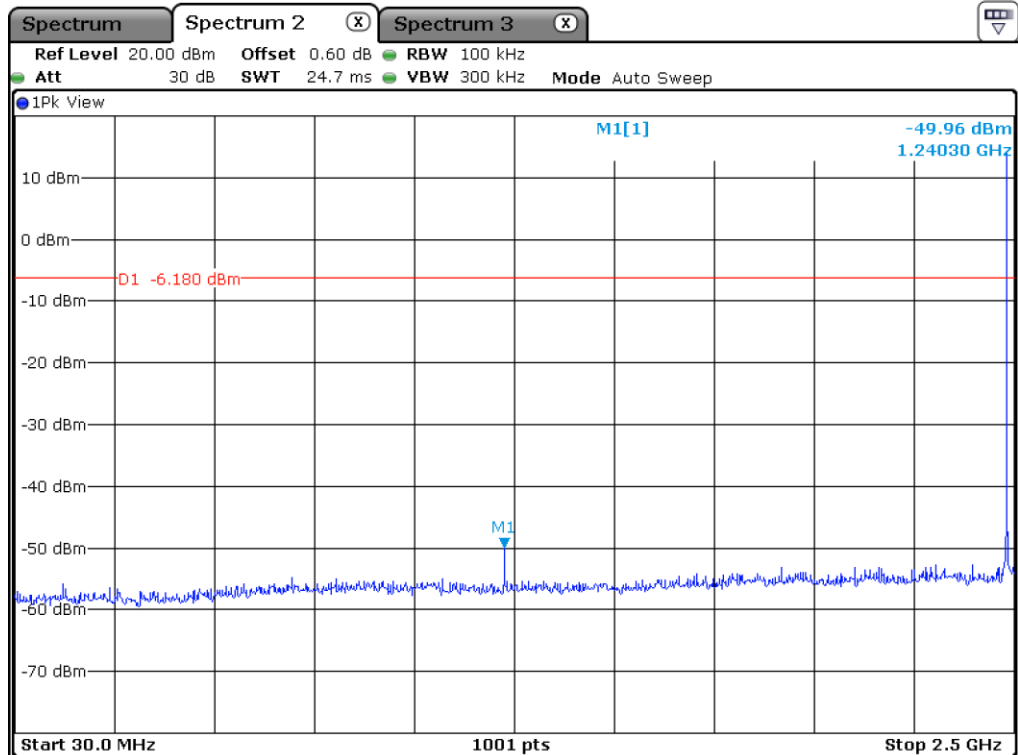
Middle Channel

This Report is not correlated with the authentication of KOLAS

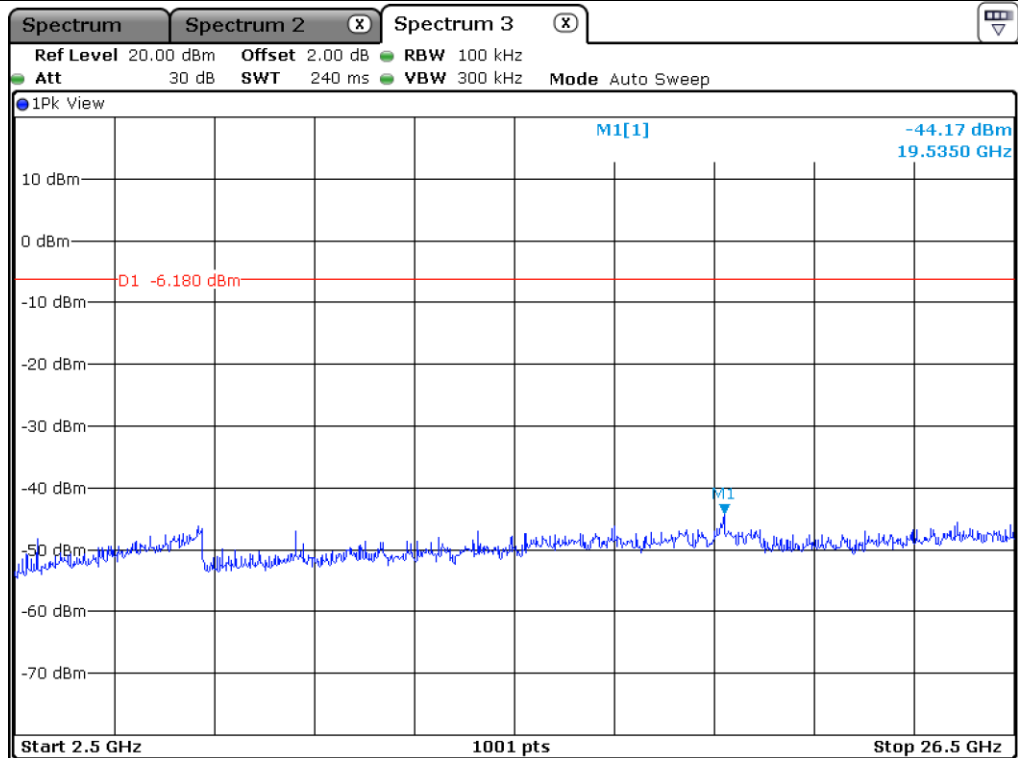
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High Channel



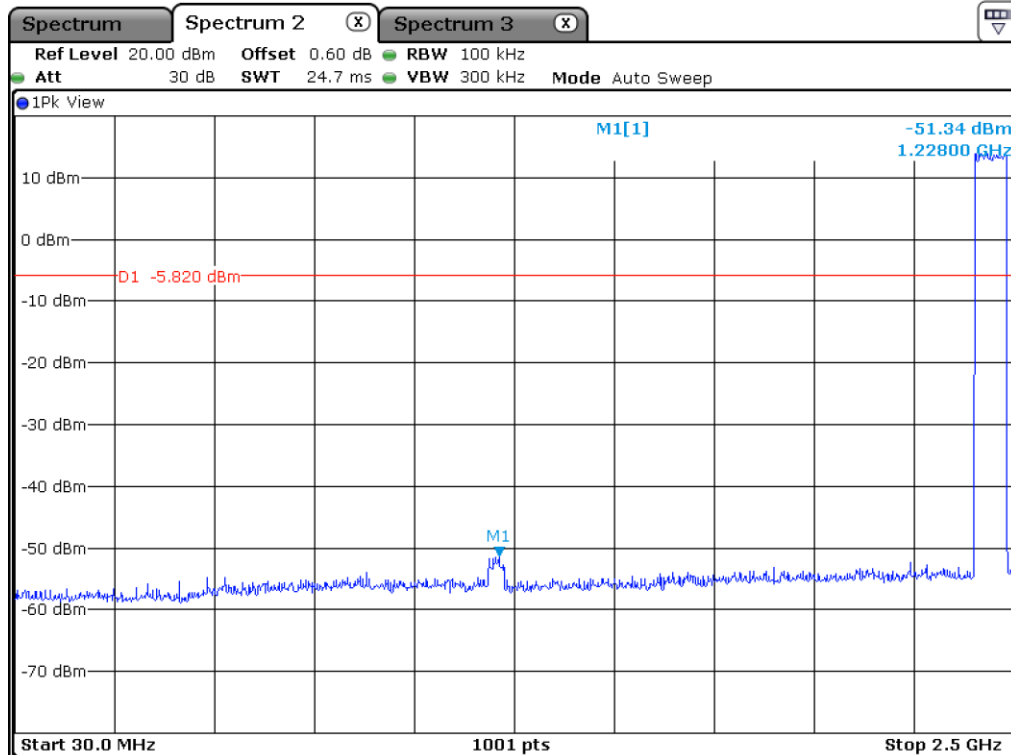
High Channel

This Report is not correlated with the authentication of KOLAS

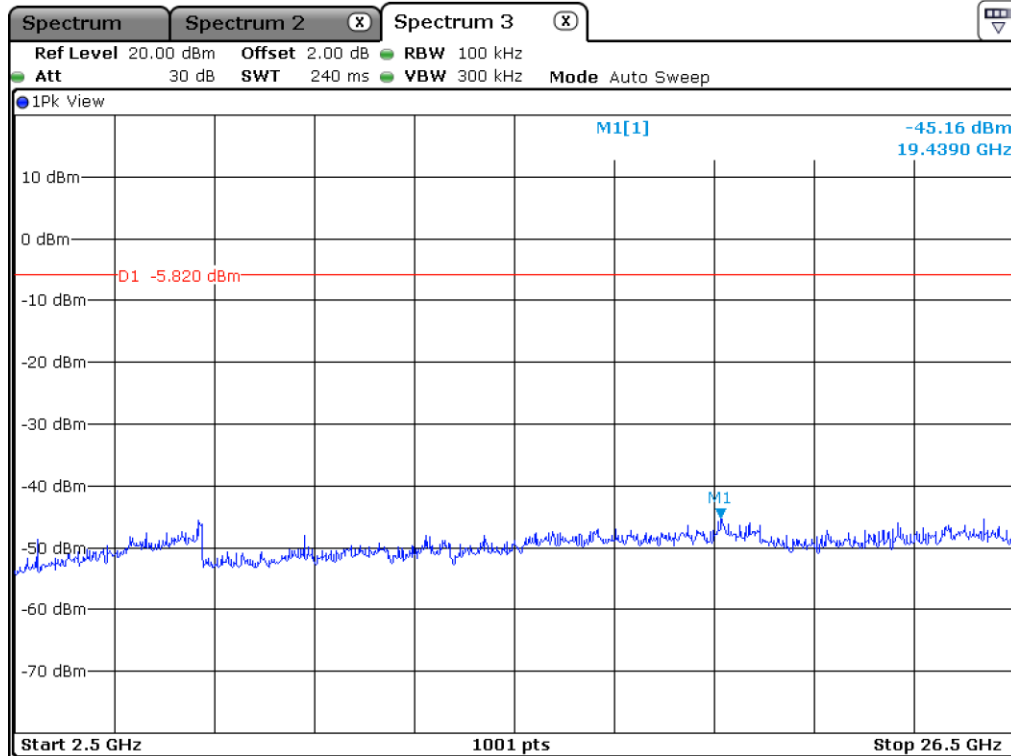
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Hopping Mode



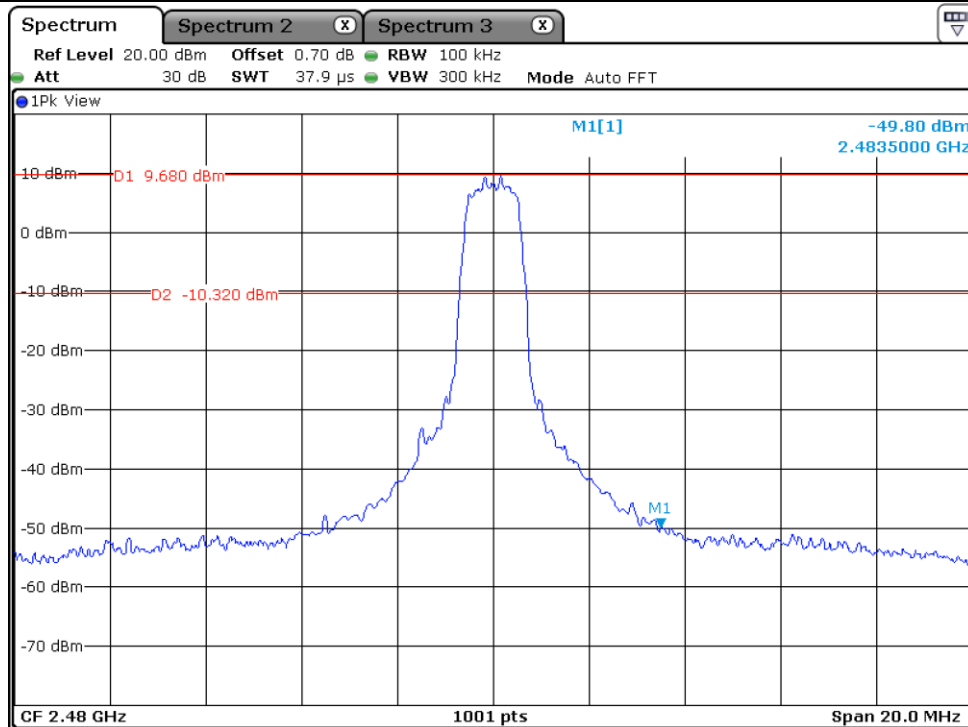
Hopping Mode

This Report is not correlated with the authentication of KOLAS

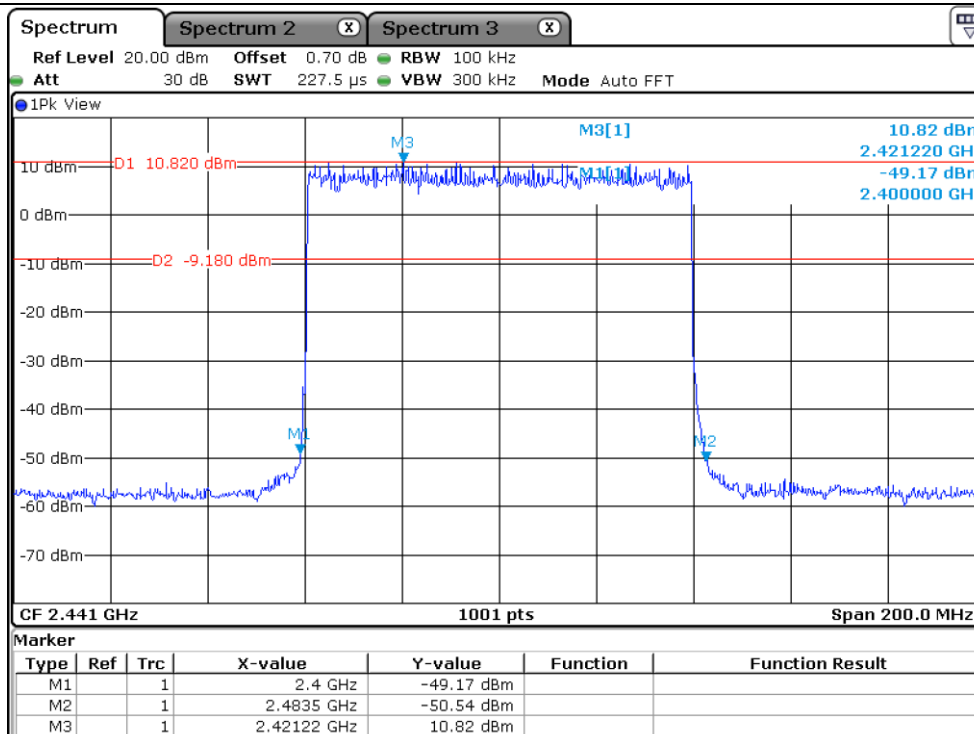
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OTC-TRF-RF-001(0)

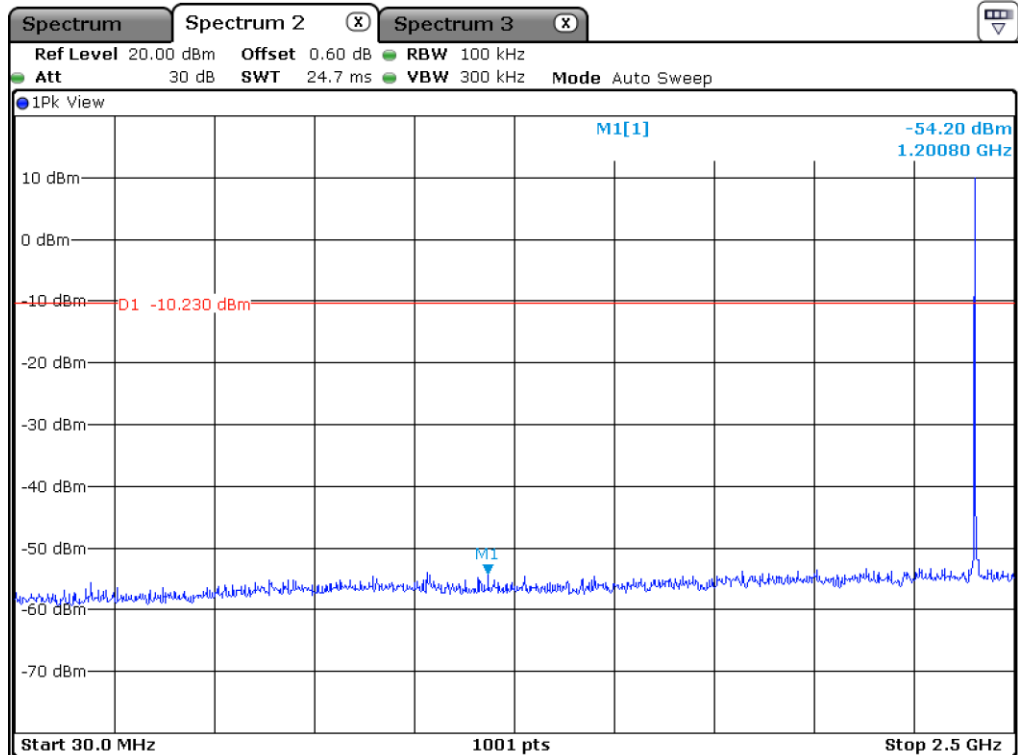
ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)



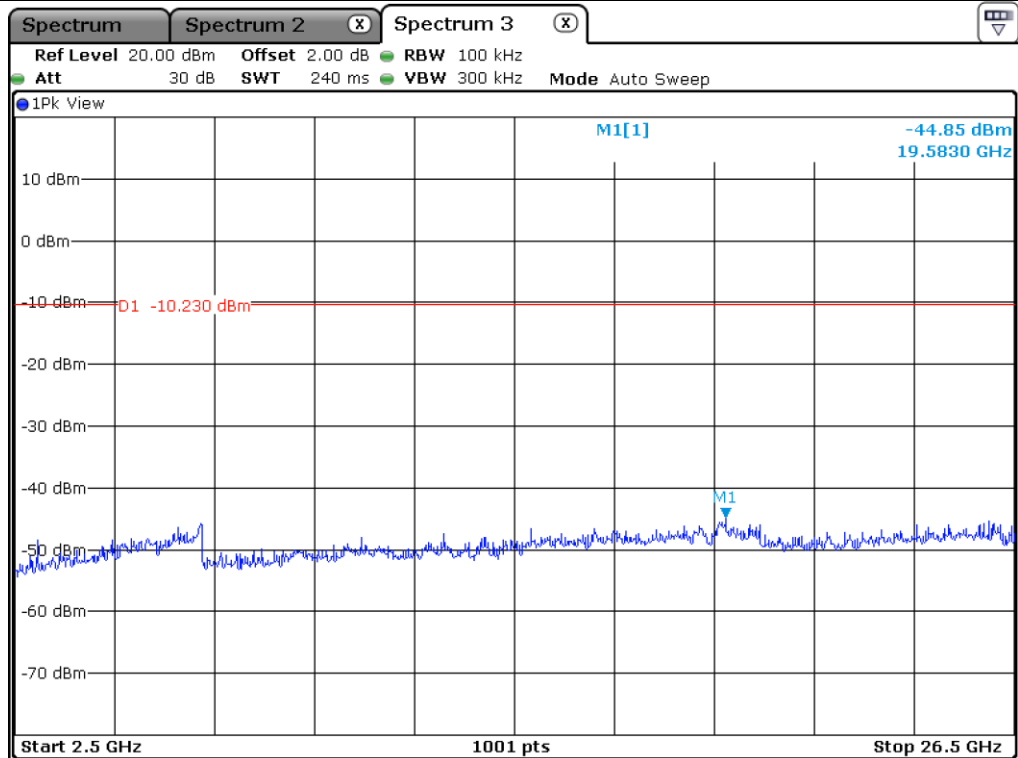
High Channel



Hopping Mode



Low Channel



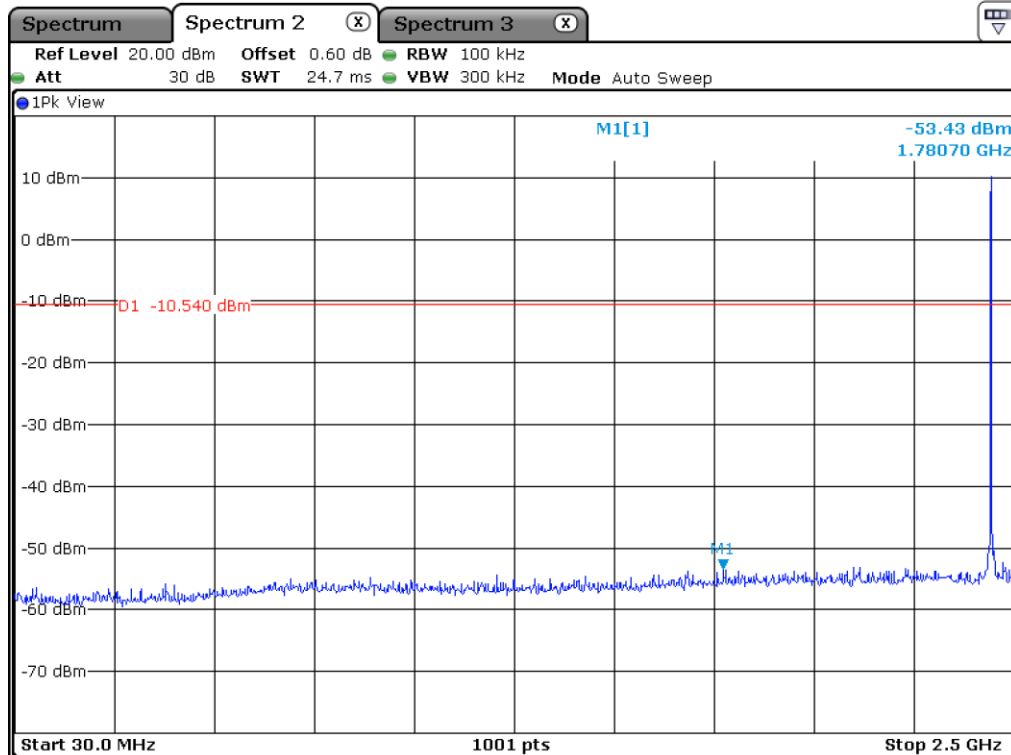
Low Channel

This Report is not correlated with the authentication of KOLAS

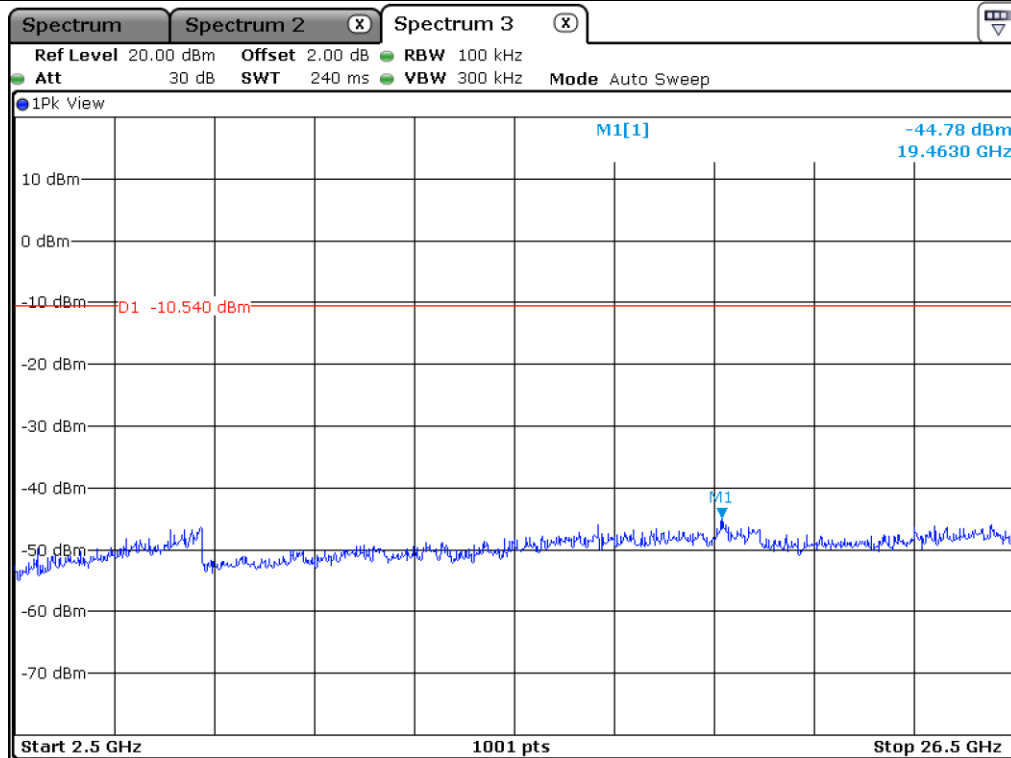
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Middle Channel



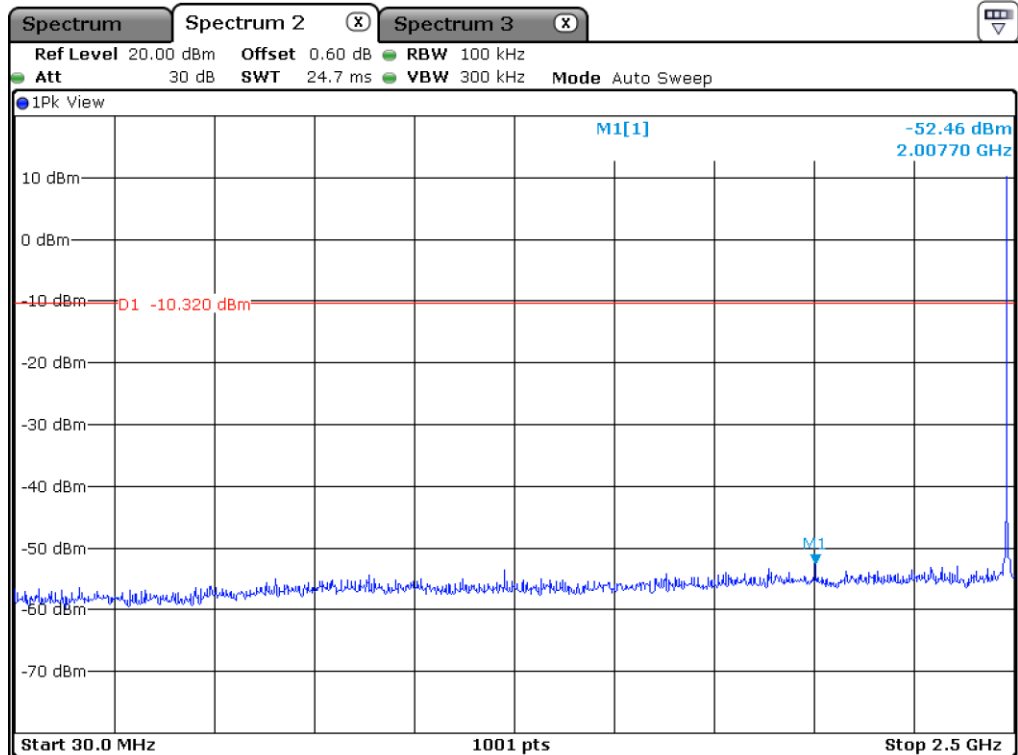
Middle Channel

This Report is not correlated with the authentication of KOLAS

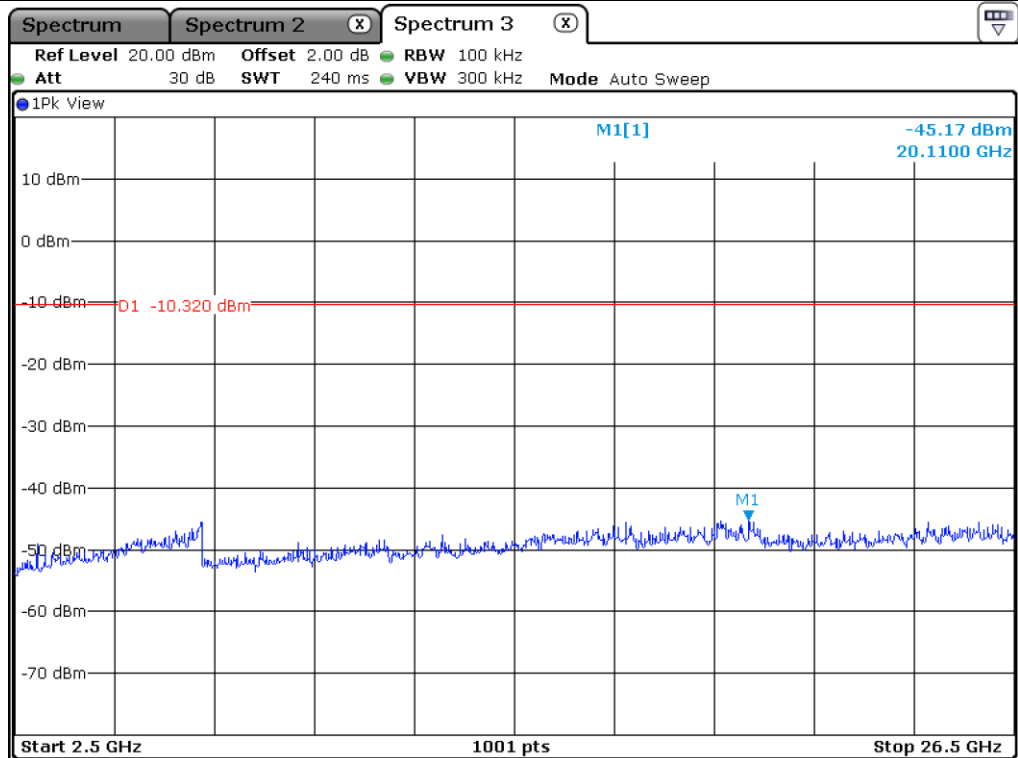
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High Channel



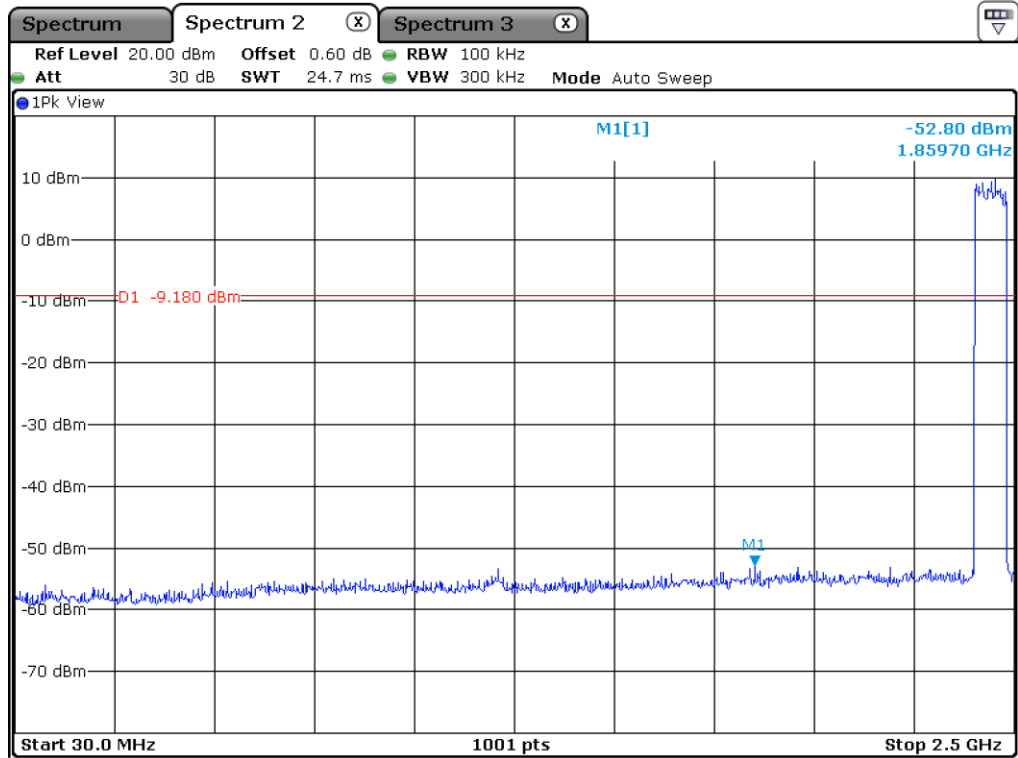
High Channel

This Report is not correlated with the authentication of KOLAS

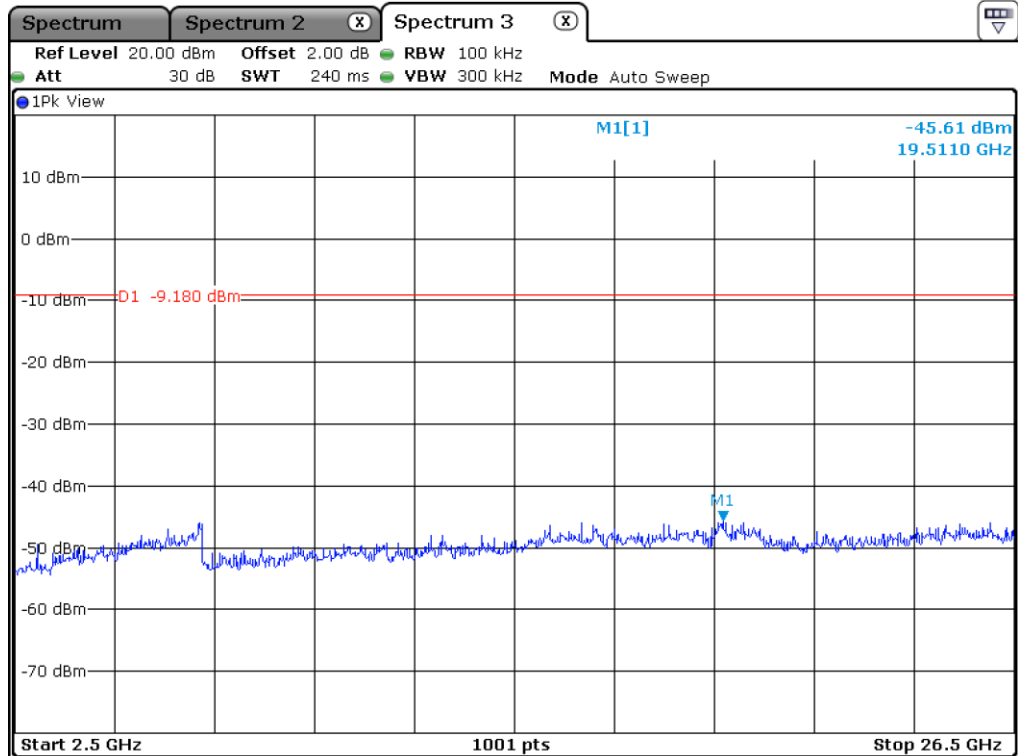
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Hopping Mode



Hopping Mode

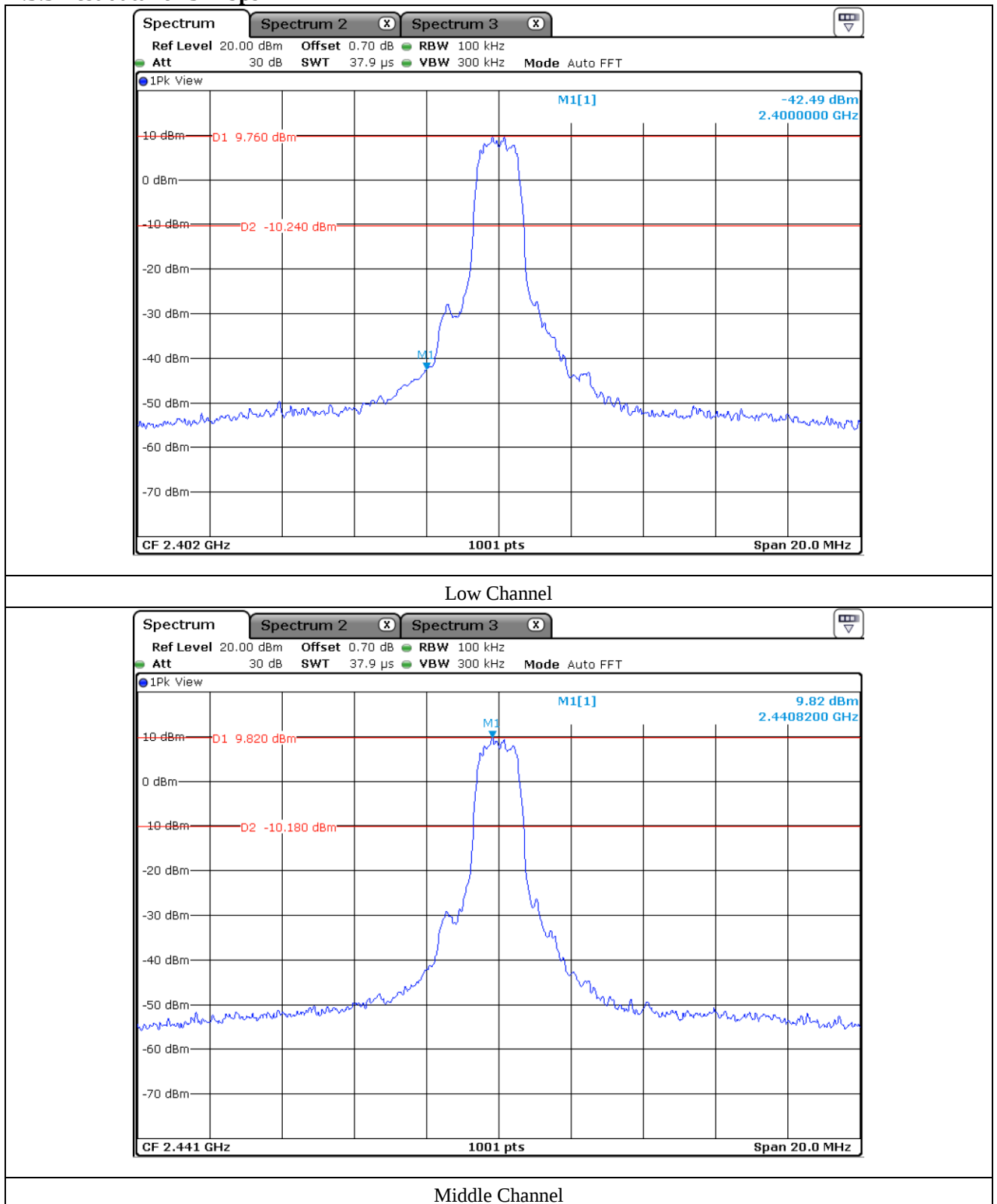
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12.5.3 Test data for 3 Mbps

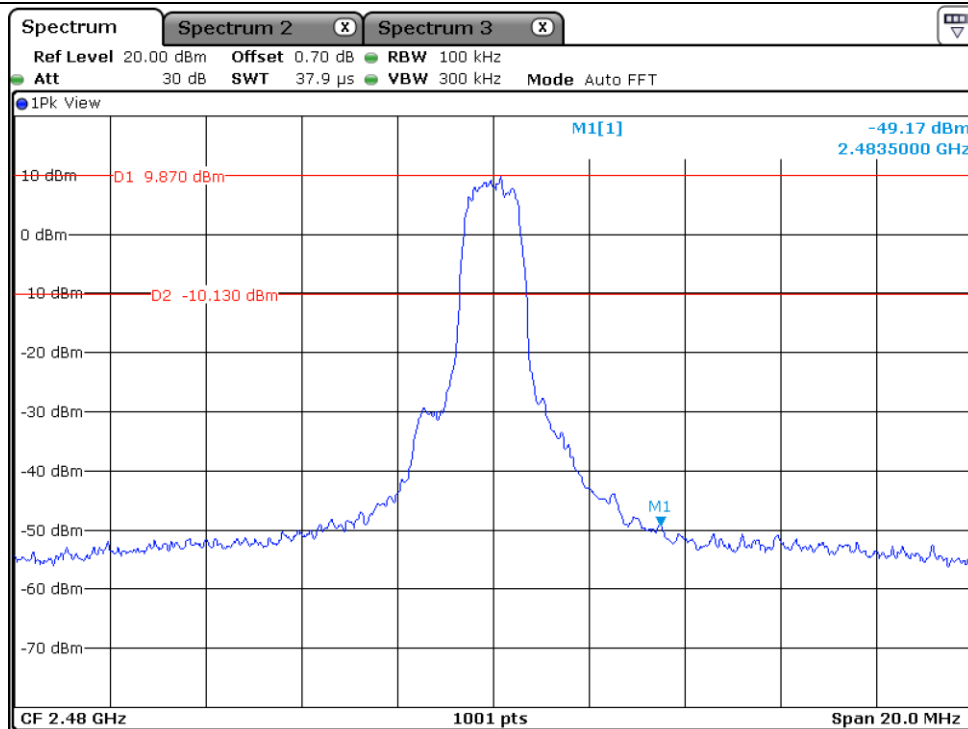


This Report is not correlated with the authentication of KOLAS

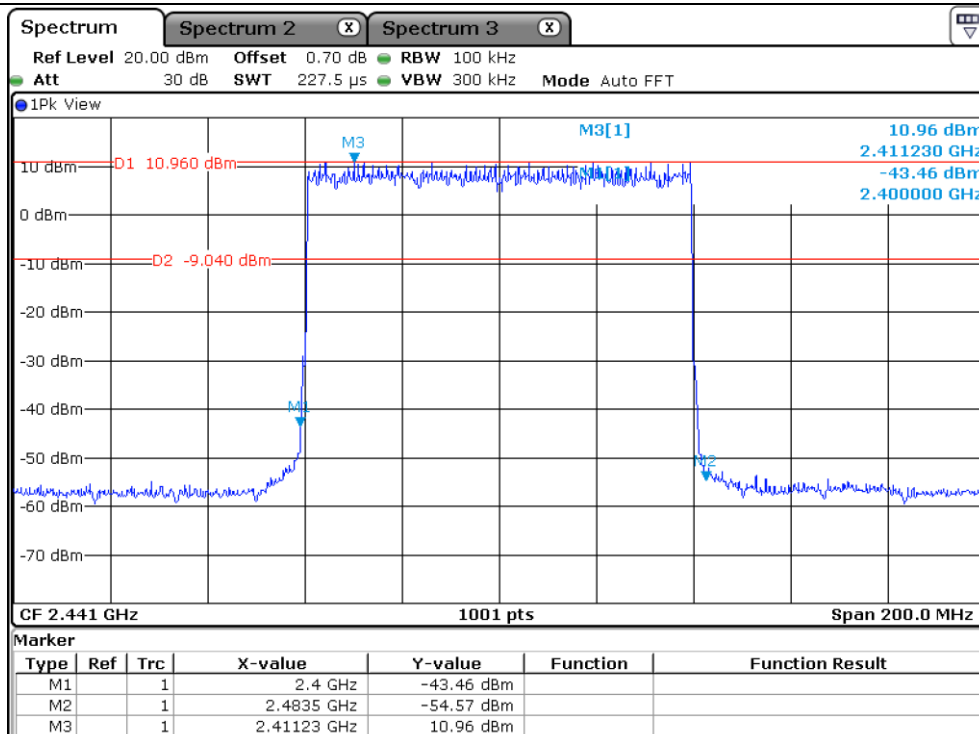
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High Channel



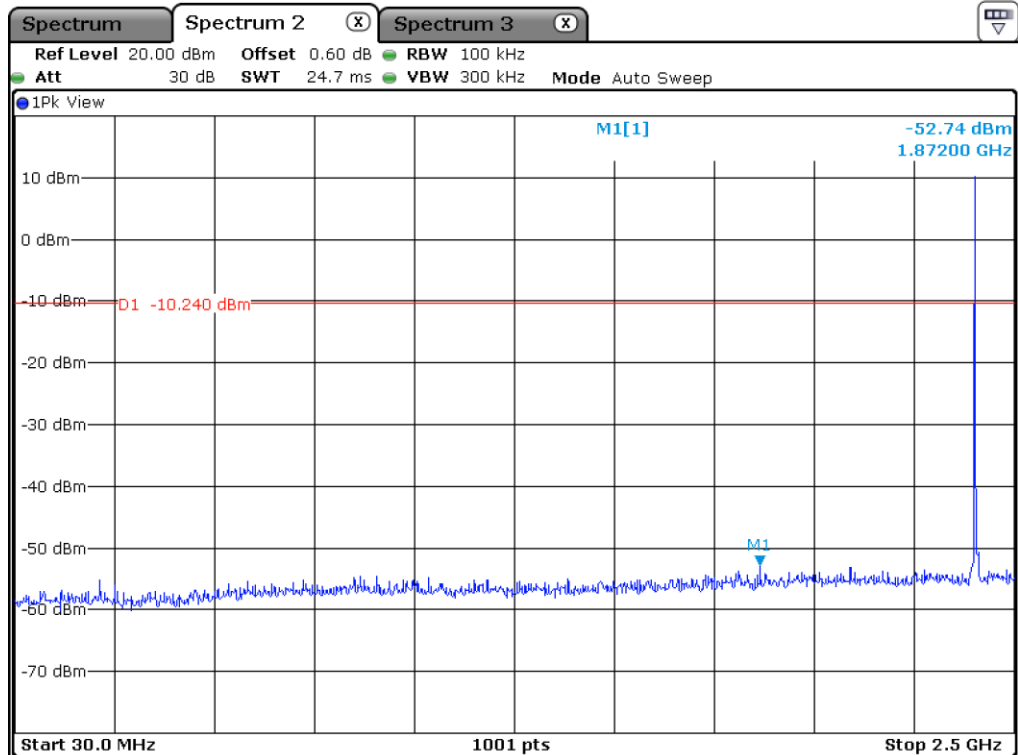
Hopping Mode

This Report is not correlated with the authentication of KOLAS

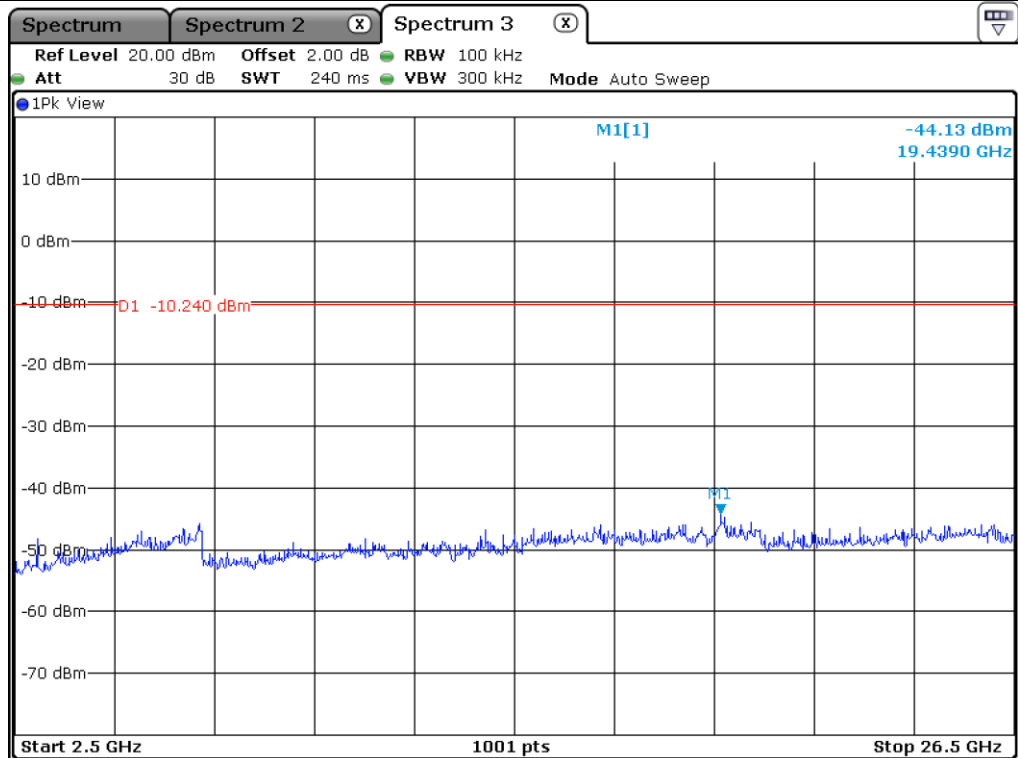
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Low Channel



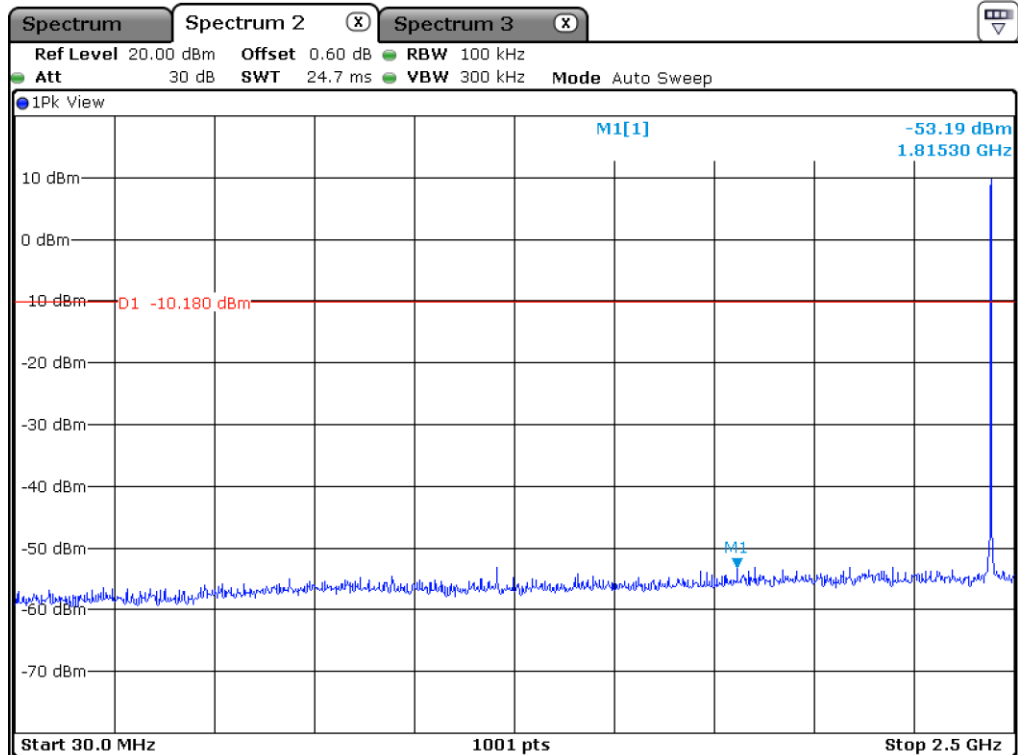
Low Channel

This Report is not correlated with the authentication of KOLAS

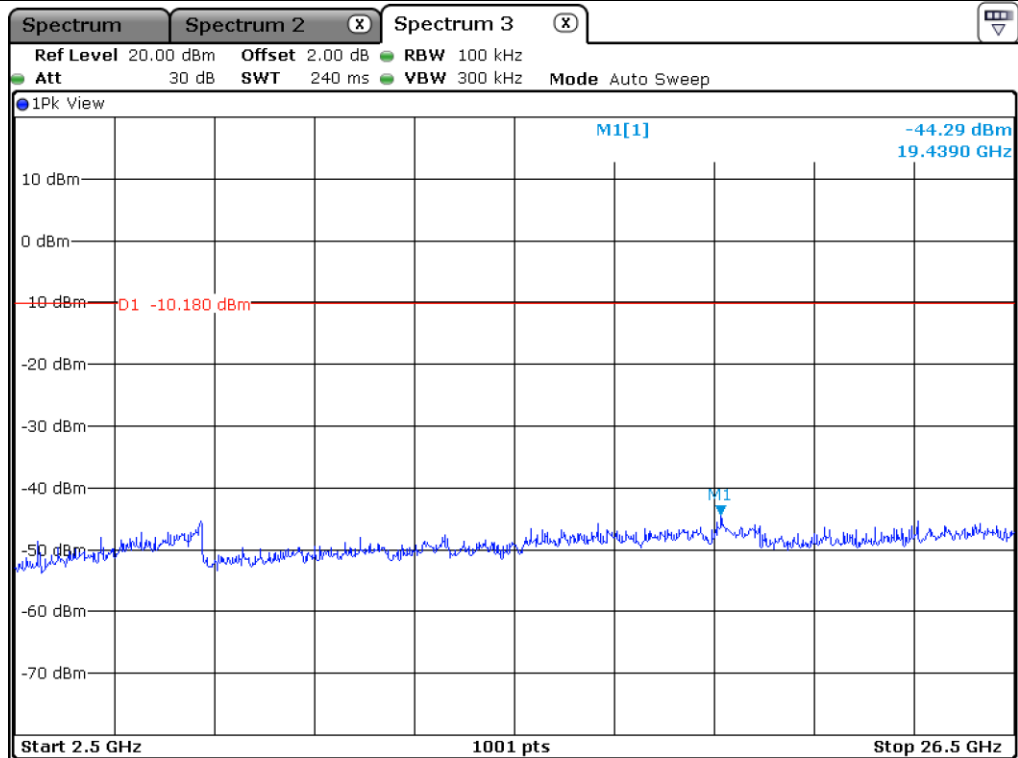
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Middle Channel



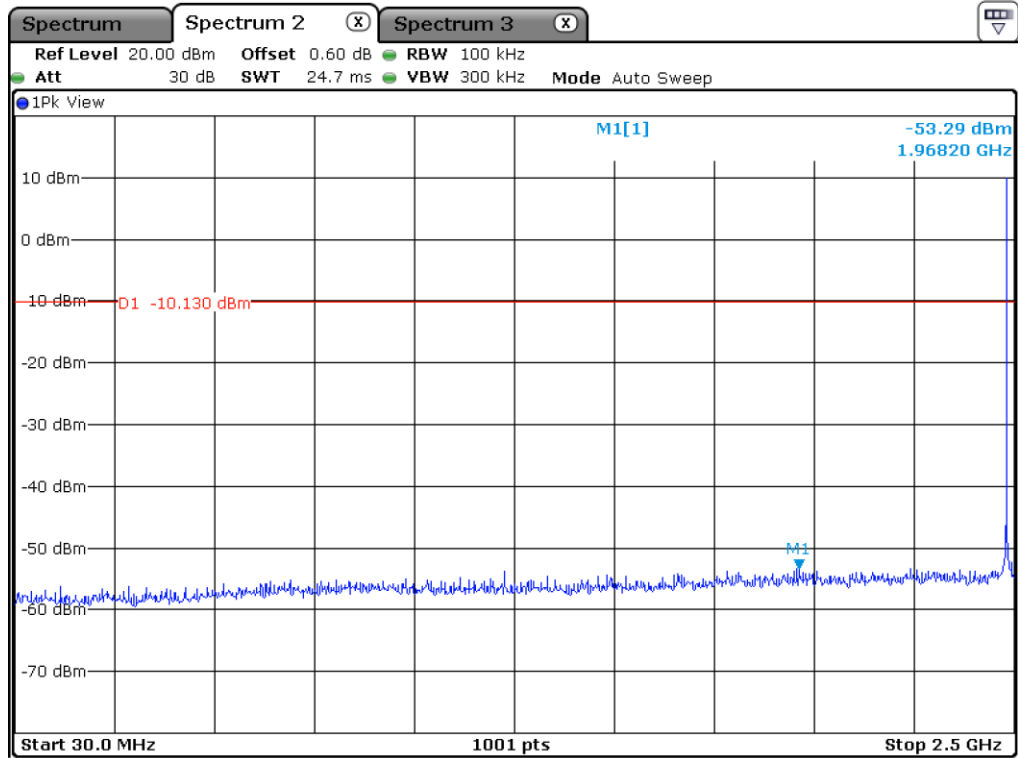
Middle Channel

This Report is not correlated with the authentication of KOLAS

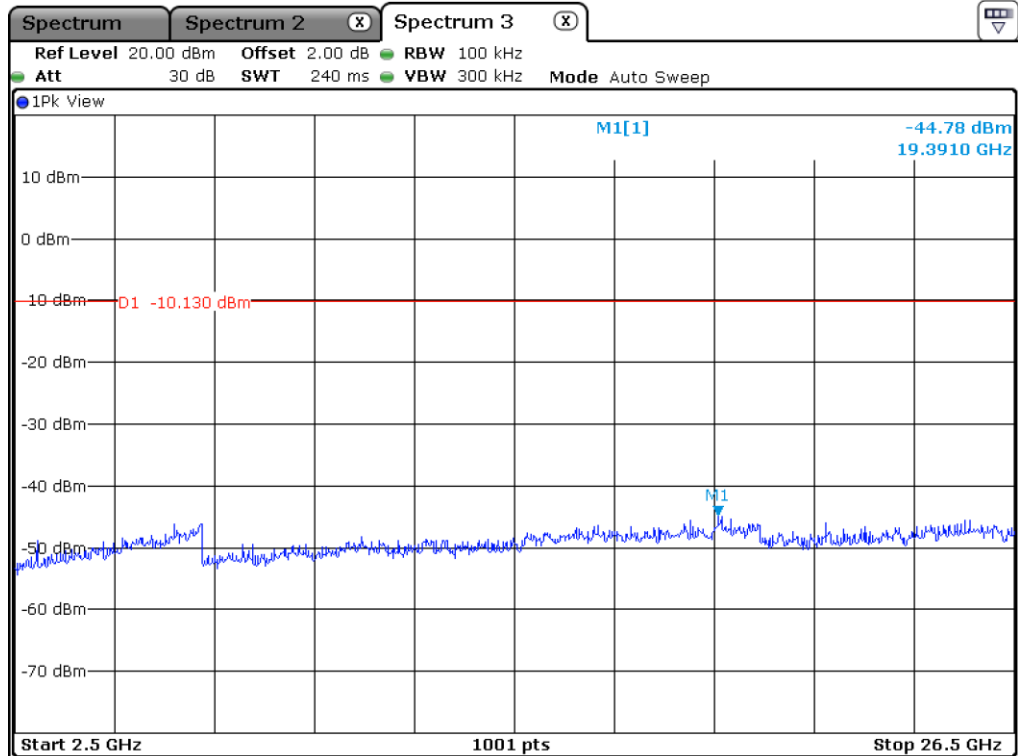
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High Channel



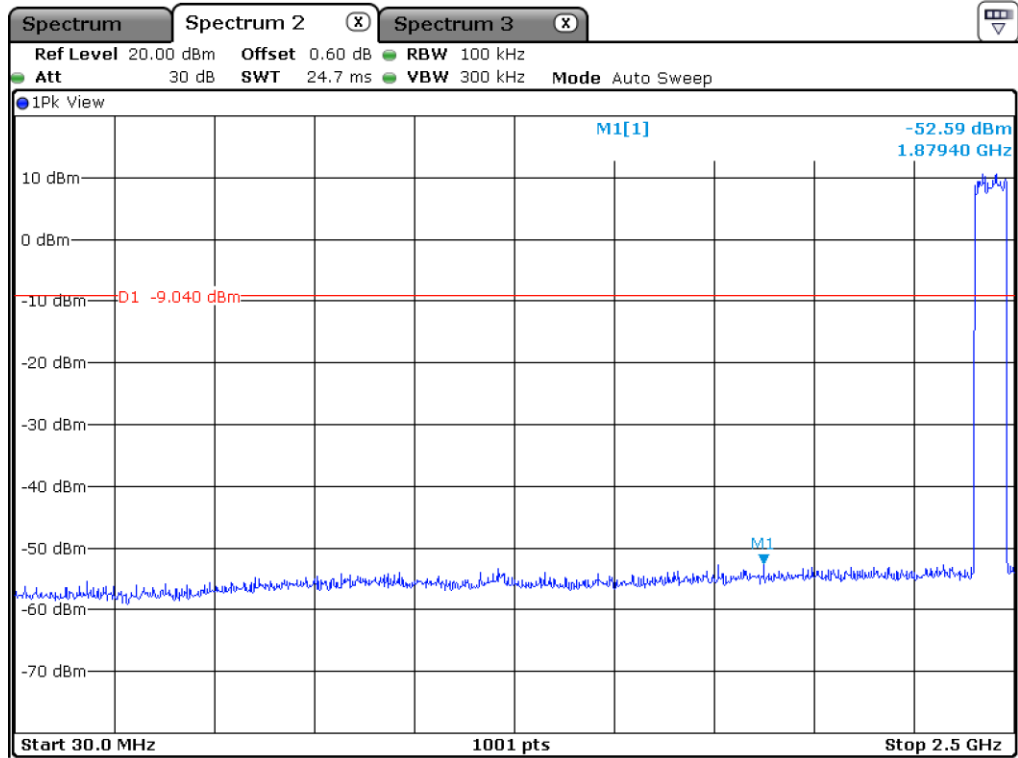
High Channel

This Report is not correlated with the authentication of KOLAS

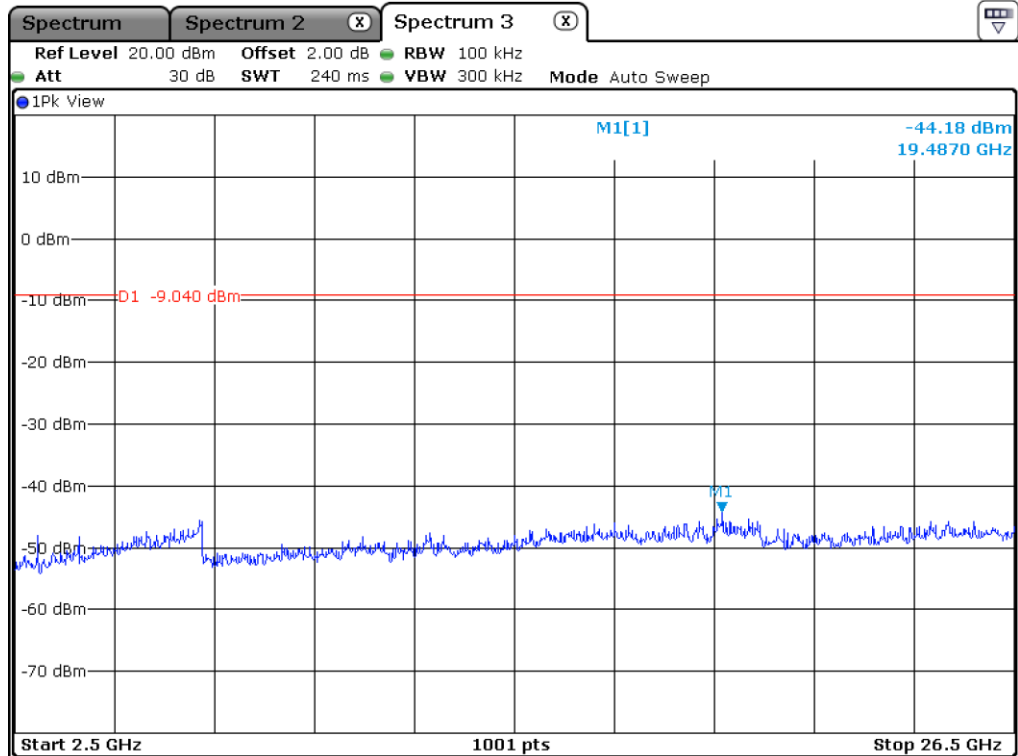
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Hopping Mode



Hopping Mode

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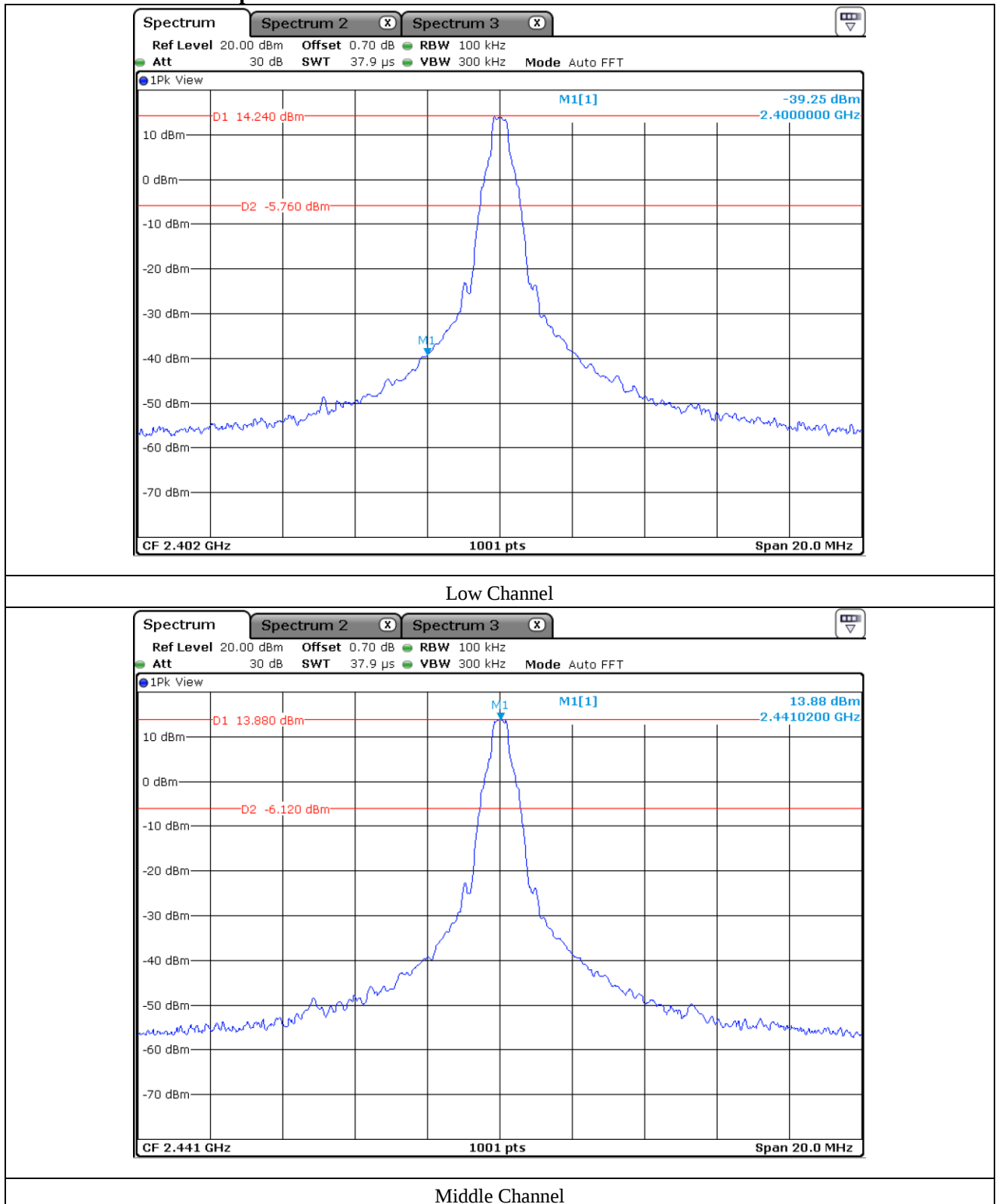
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12.6 Test data for conducted emission (Right Earbud)

12.6.1 Test data for 1 Mbps

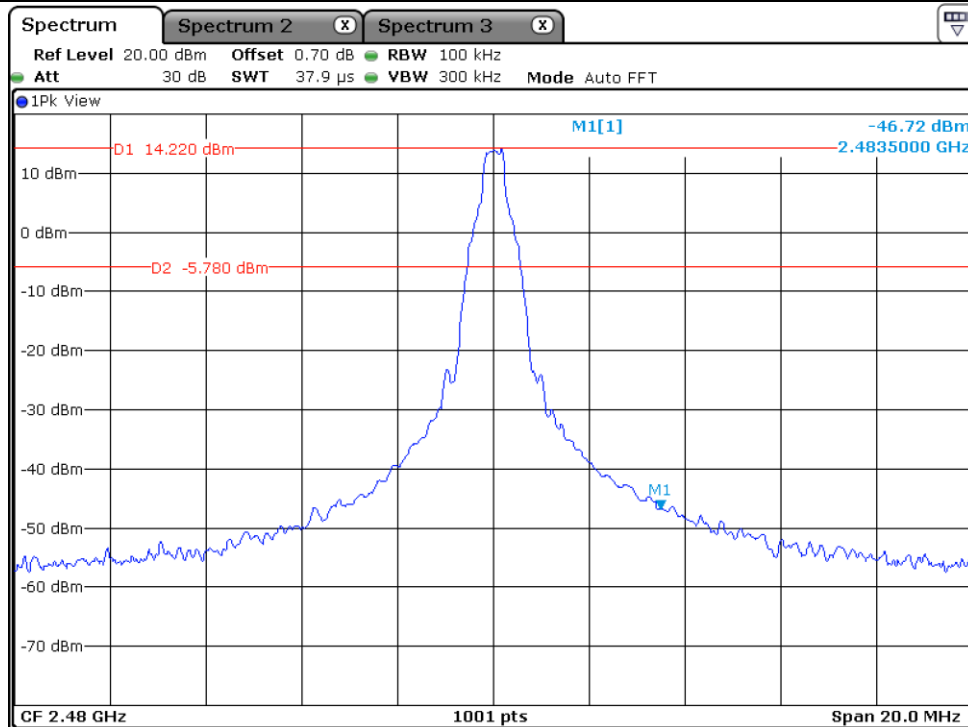


This Report is not correlated with the authentication of KOLAS

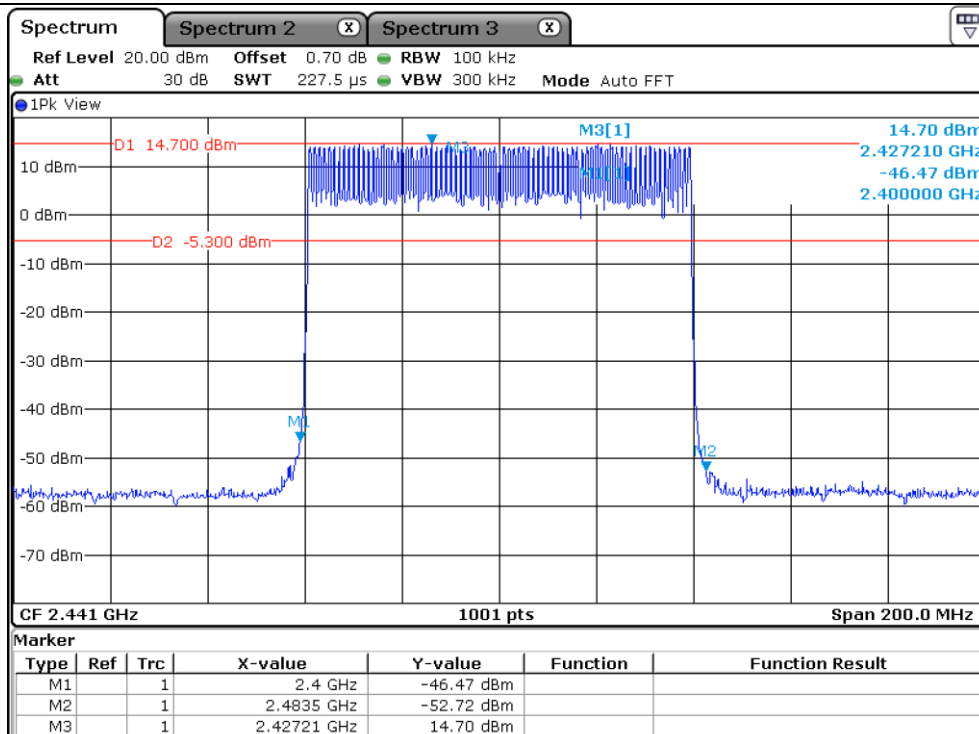
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High Channel



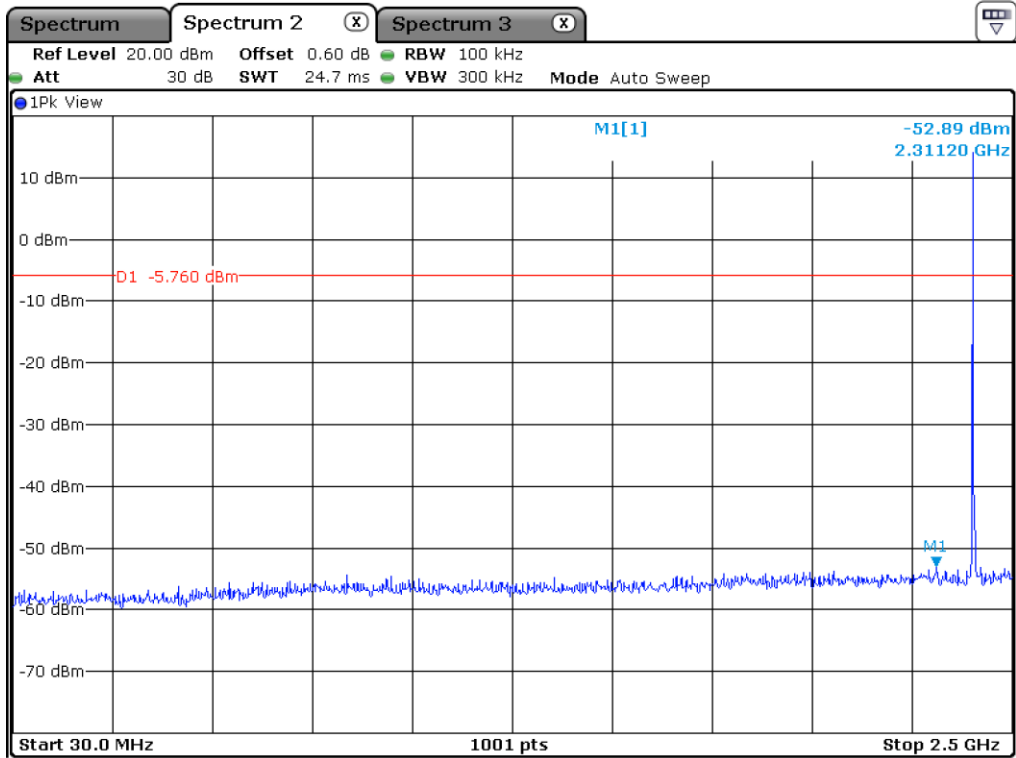
Hopping Mode

This Report is not correlated with the authentication of KOLAS

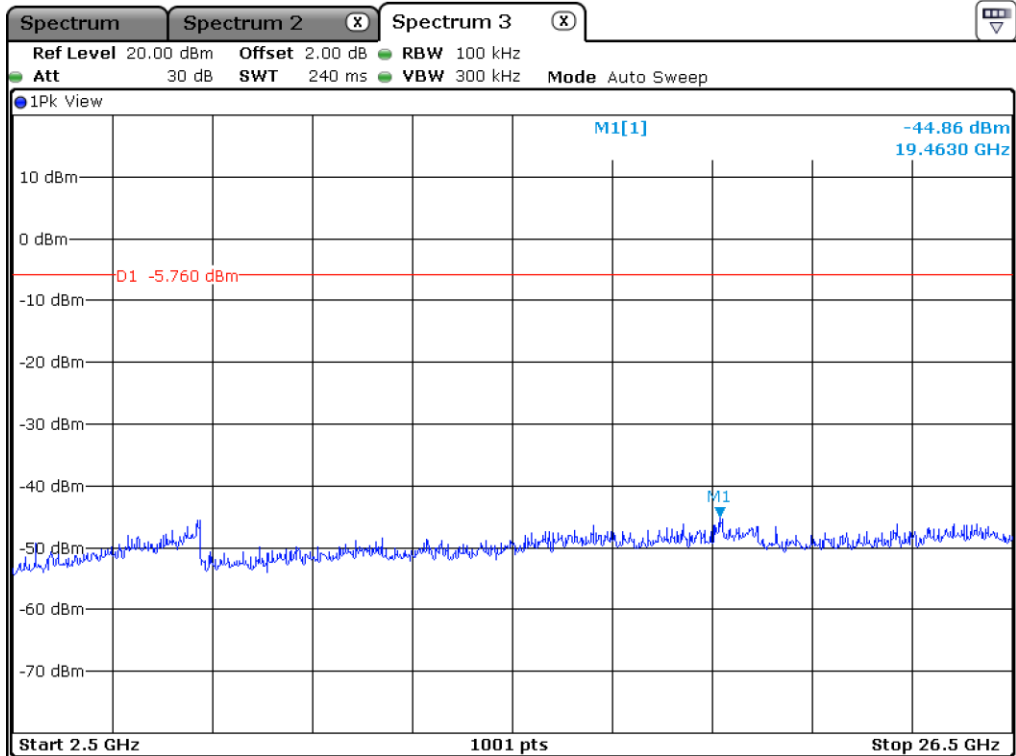
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Low Channel



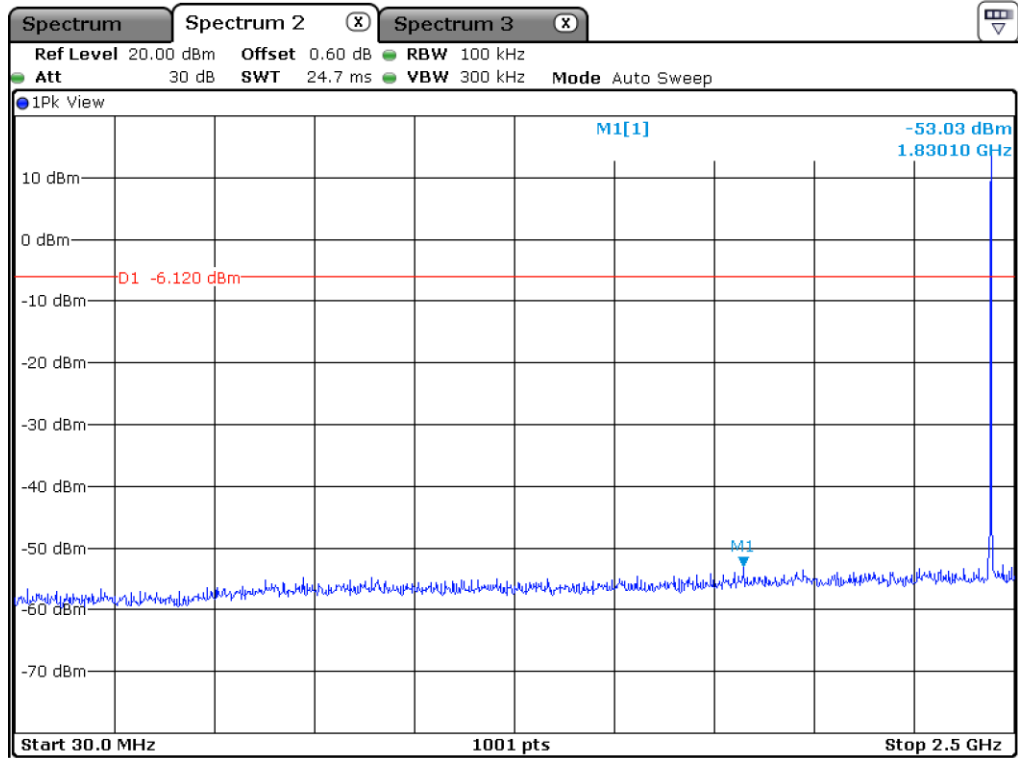
Low Channel

This Report is not correlated with the authentication of KOLAS

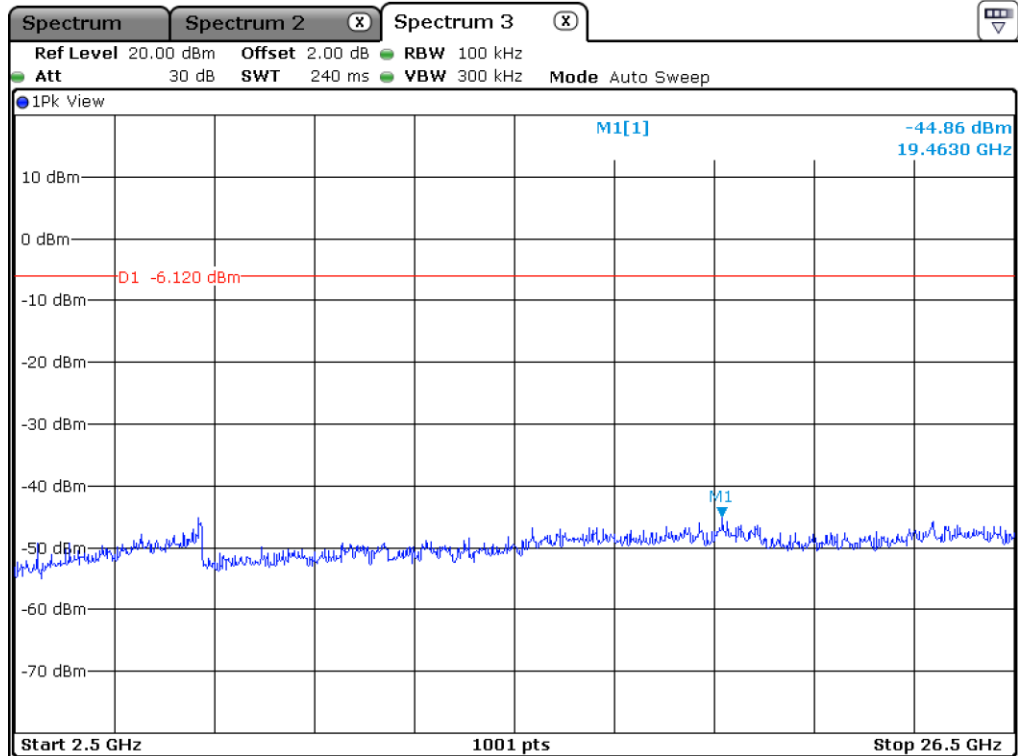
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Middle Channel



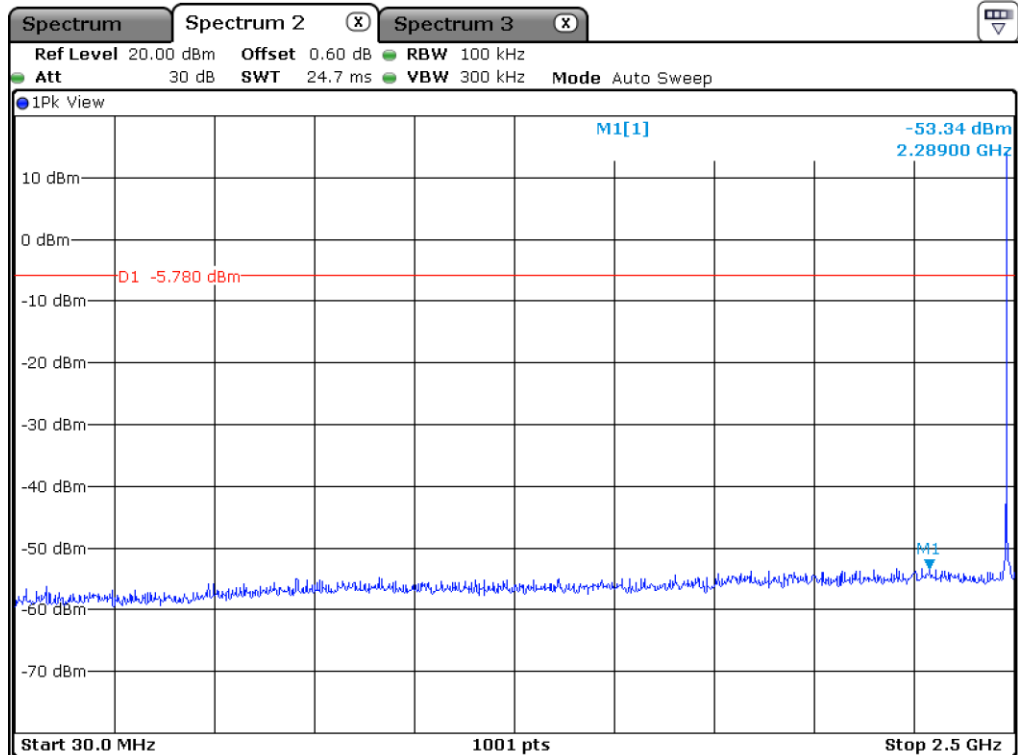
Middle Channel

This Report is not correlated with the authentication of KOLAS

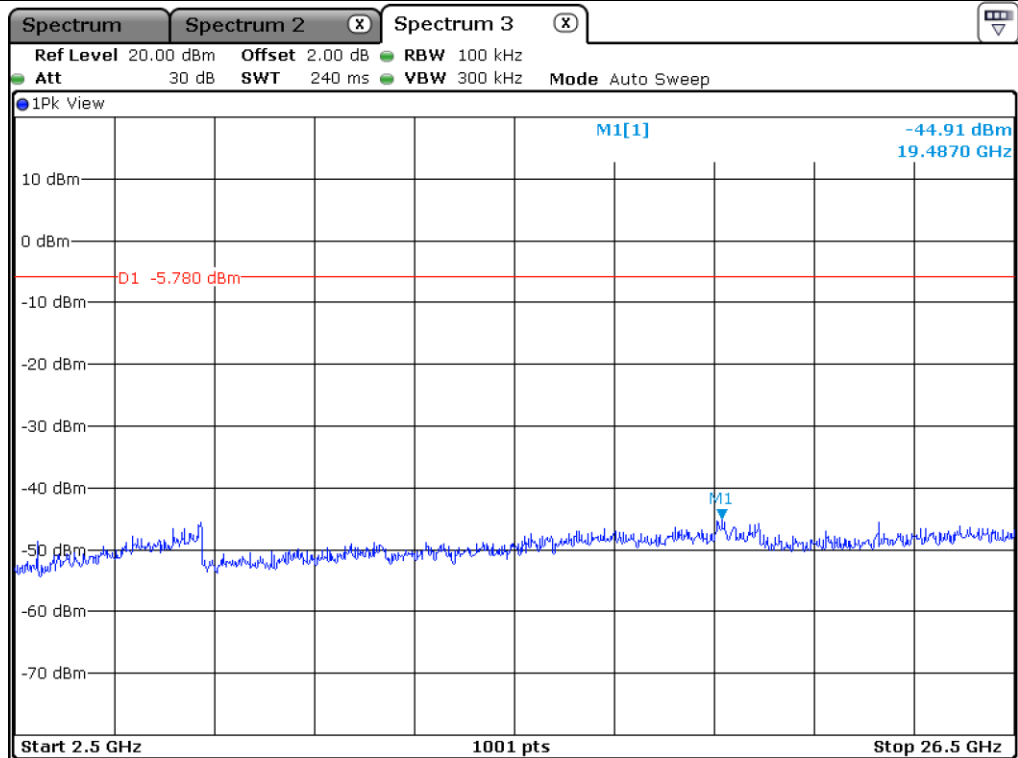
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ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)



High Channel



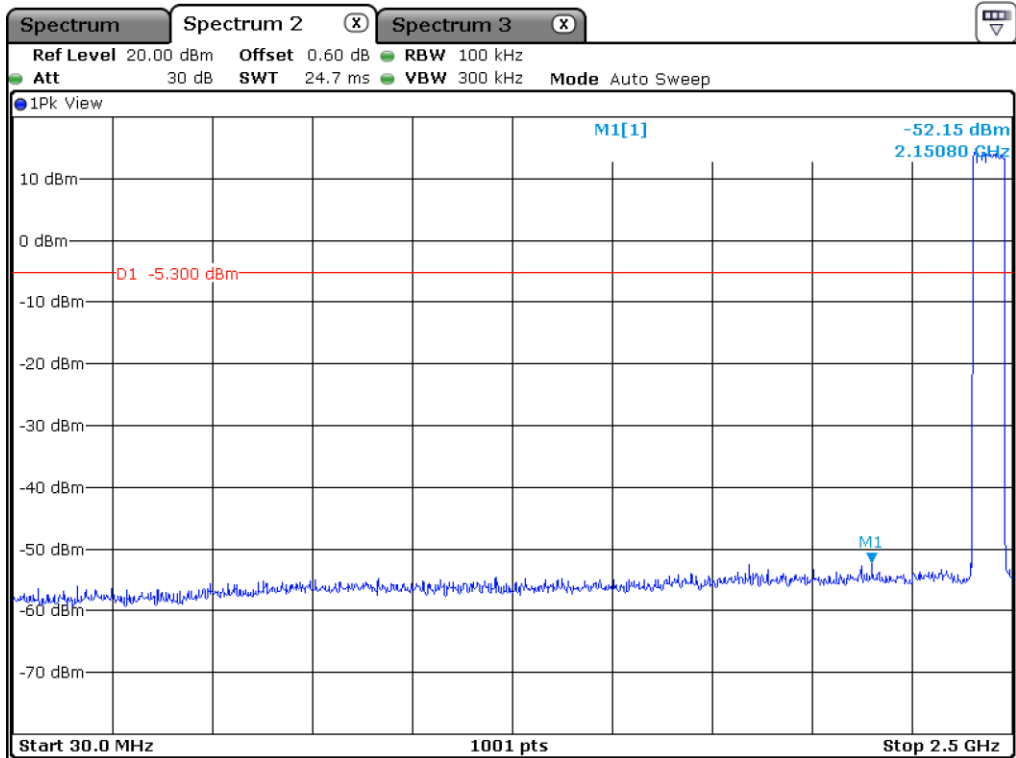
High Channel

This Report is not correlated with the authentication of KOLAS

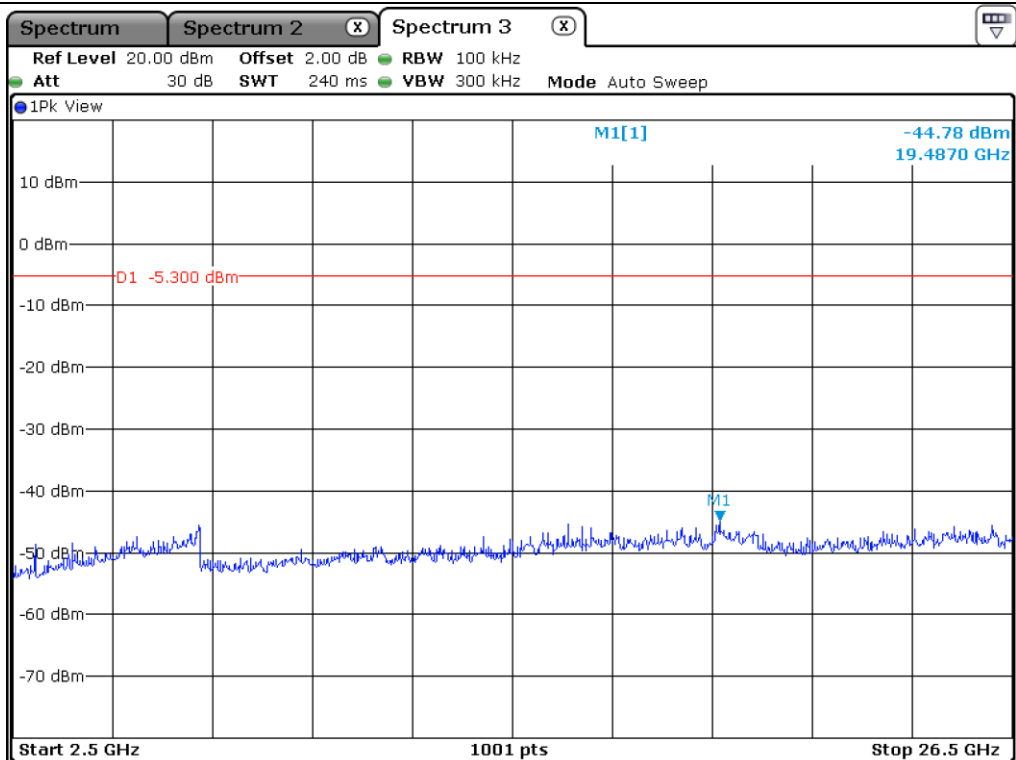
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Hopping Mode



Hopping Mode

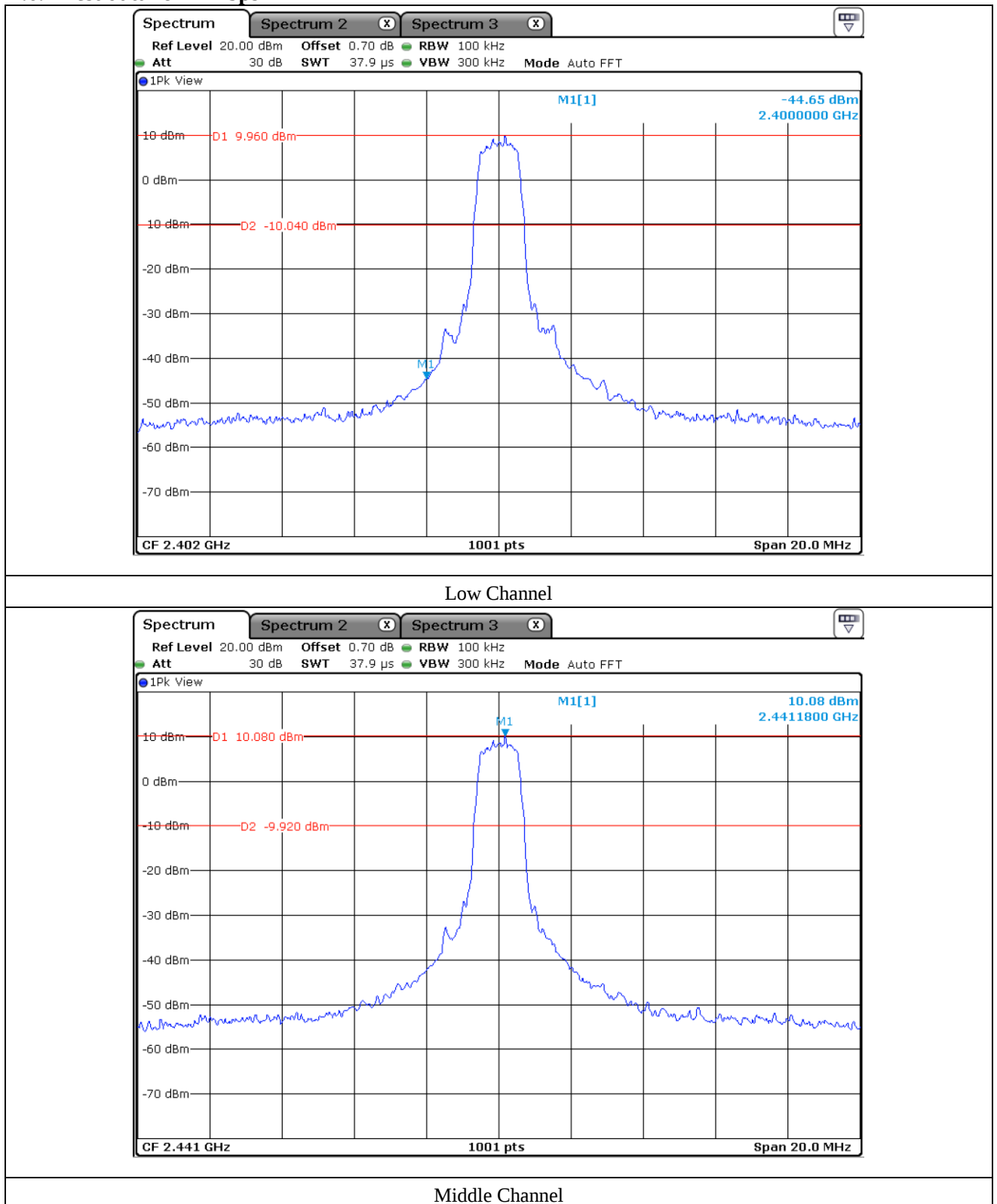
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12.6.2 Test data for 2 Mbps

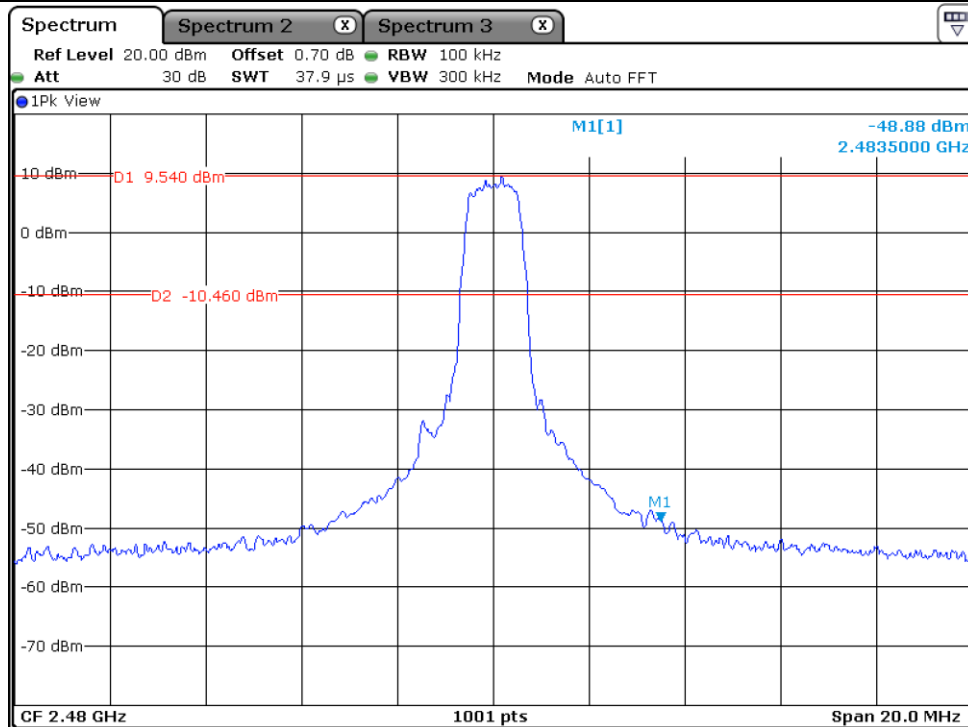


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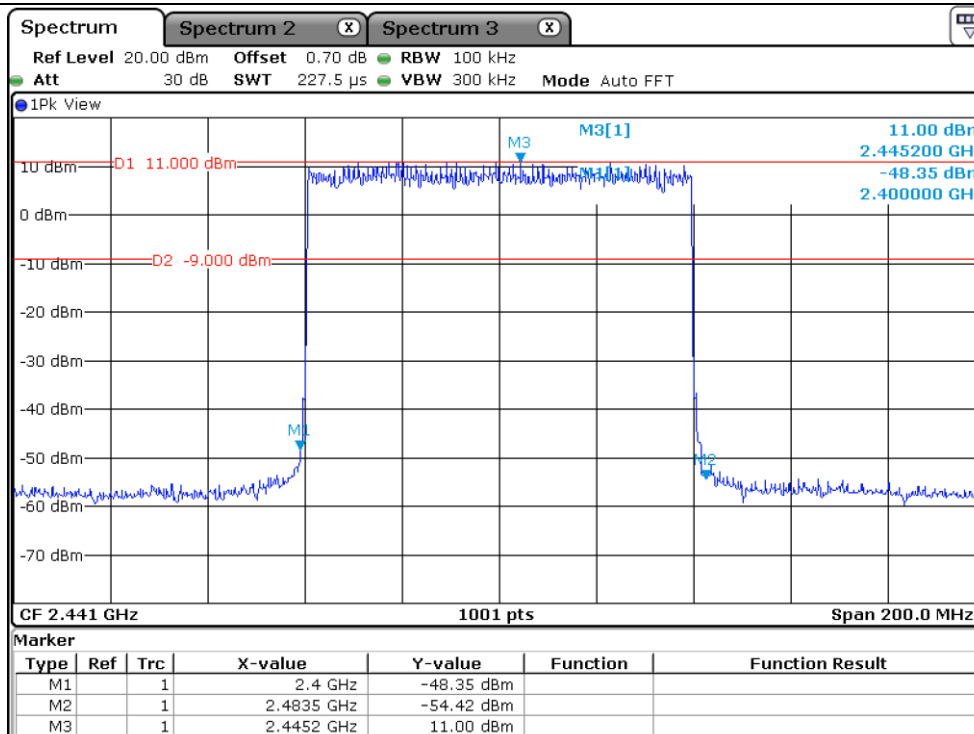
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High Channel



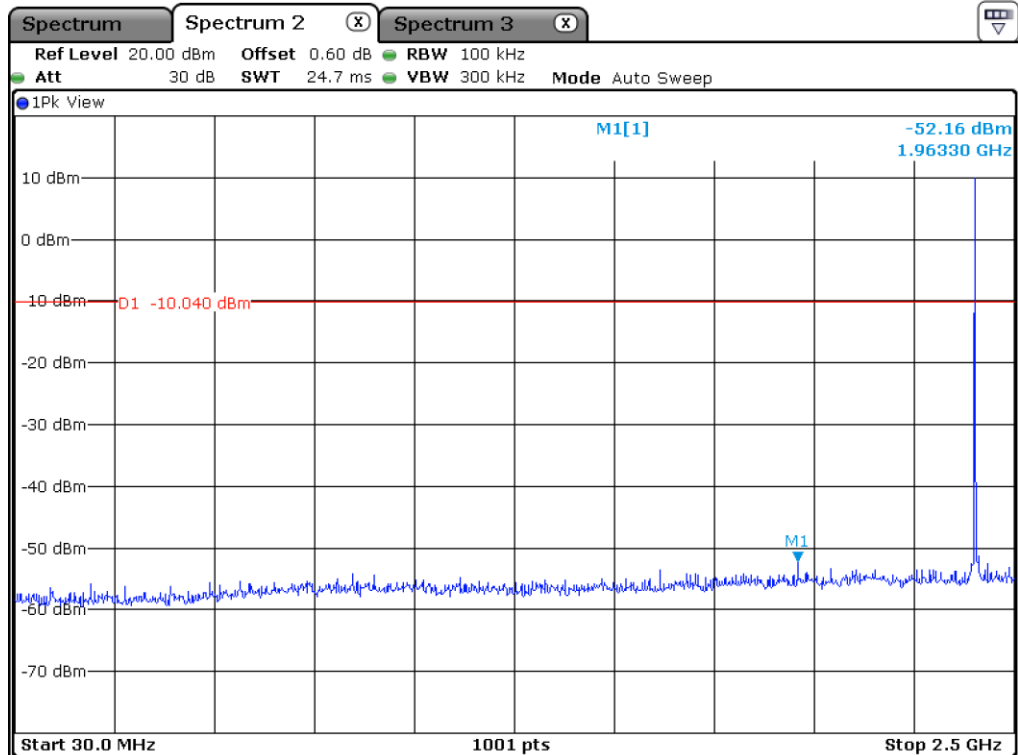
Hopping Mode

This Report is not correlated with the authentication of KOLAS

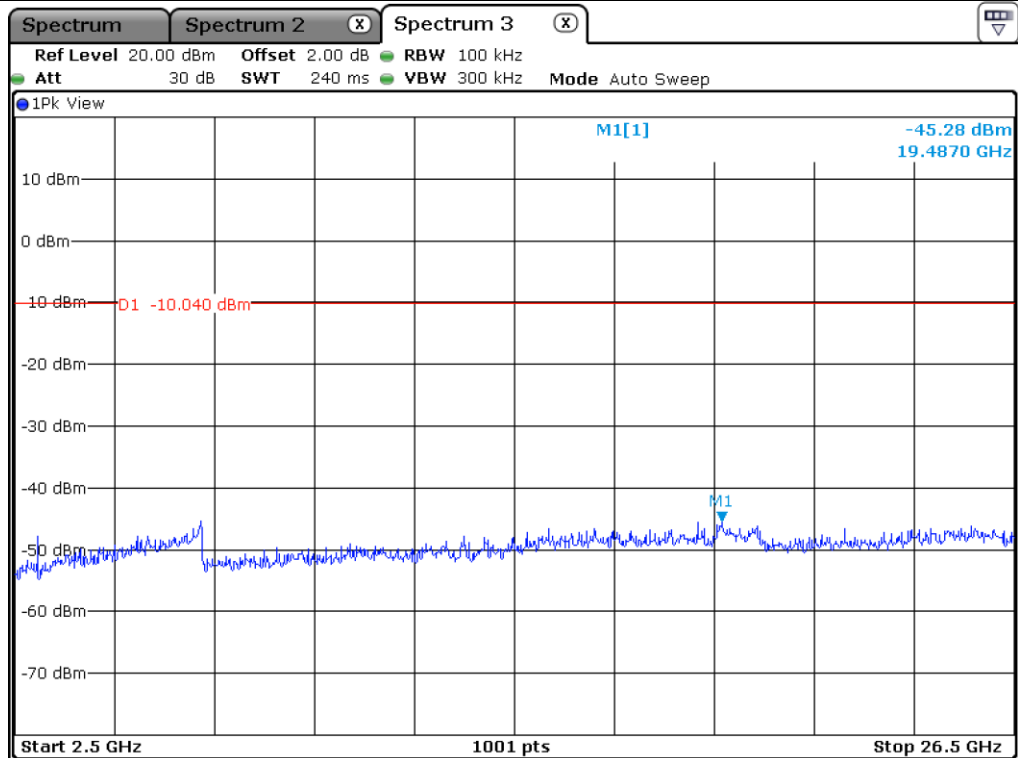
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Low Channel



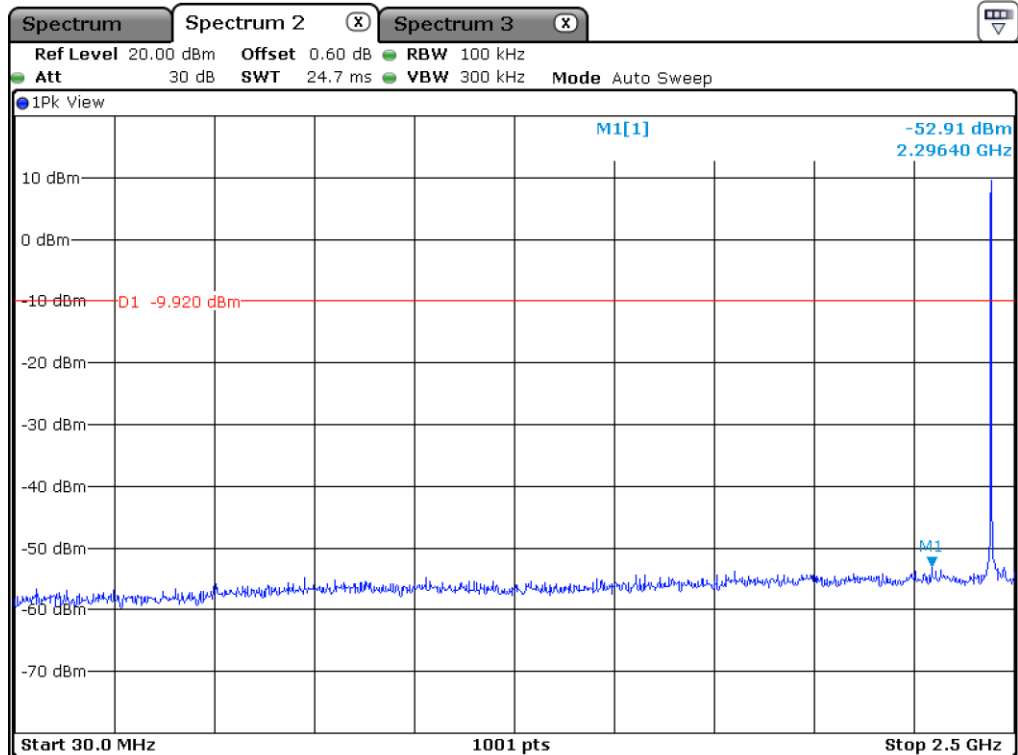
Low Channel

This Report is not correlated with the authentication of KOLAS

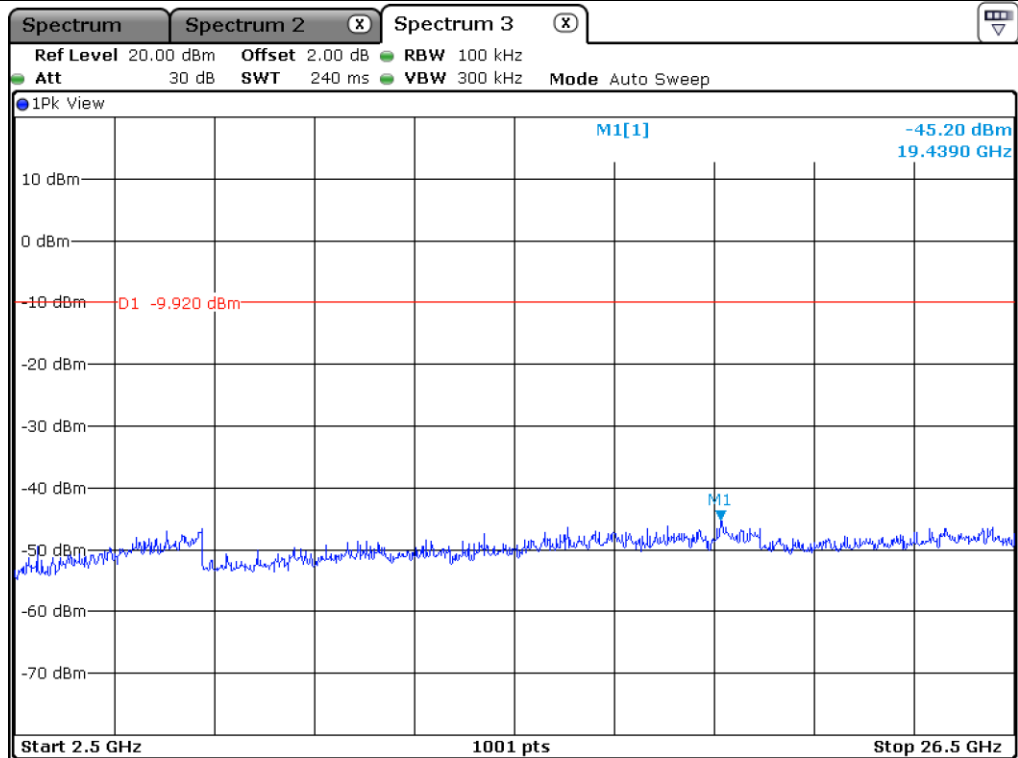
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Middle Channel



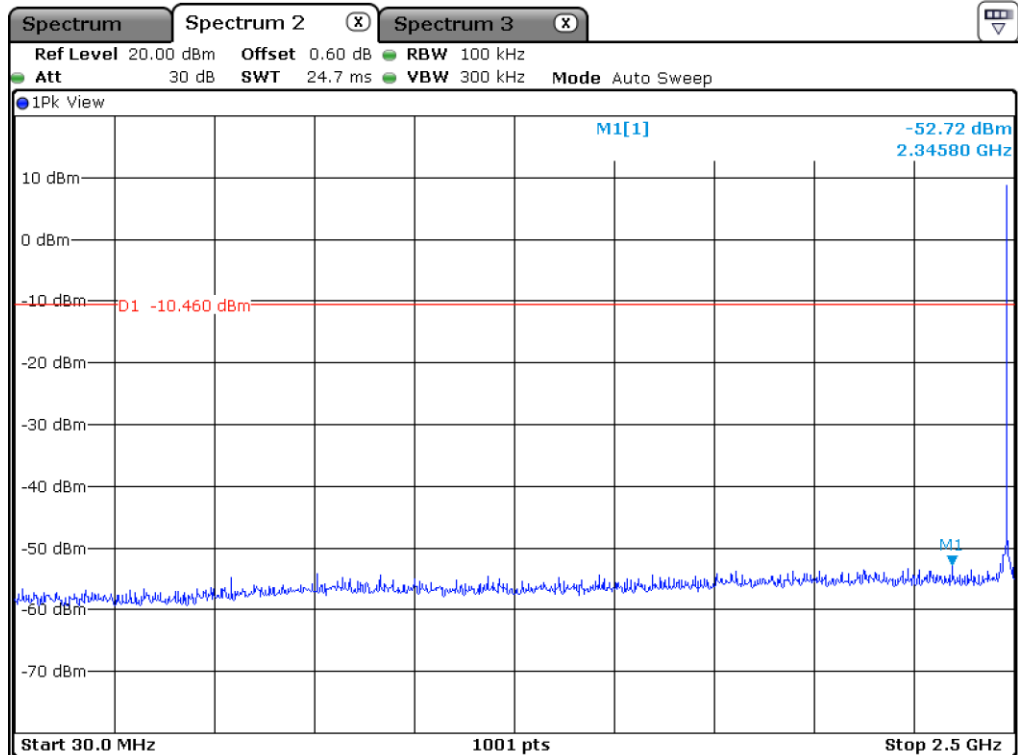
Middle Channel

This Report is not correlated with the authentication of KOLAS

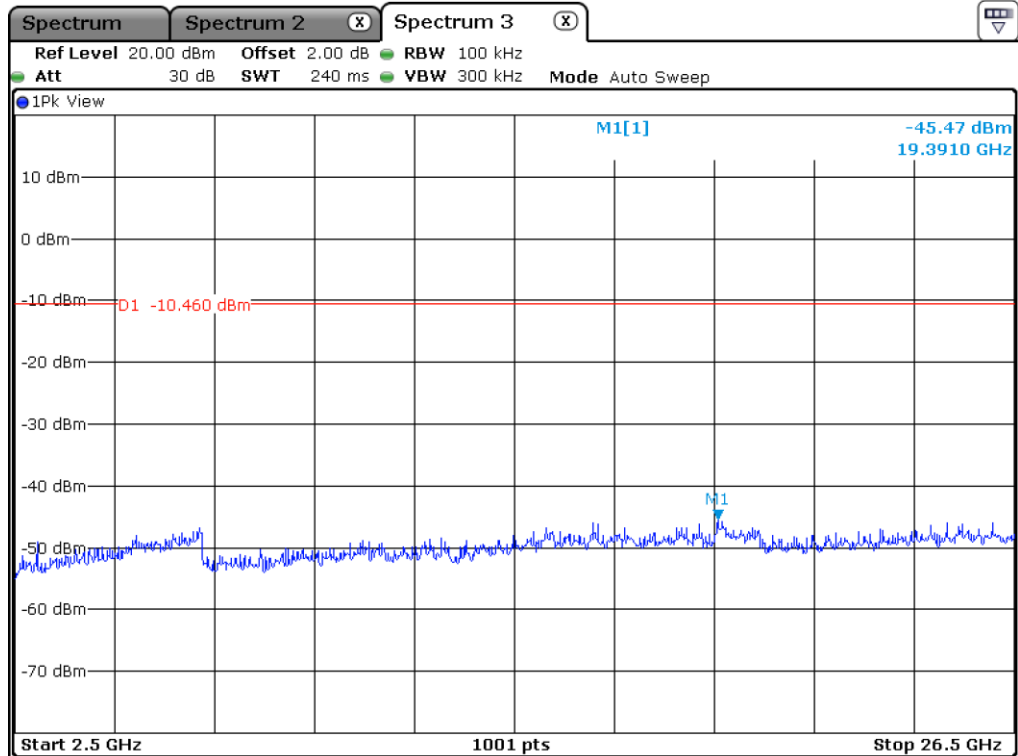
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High Channel



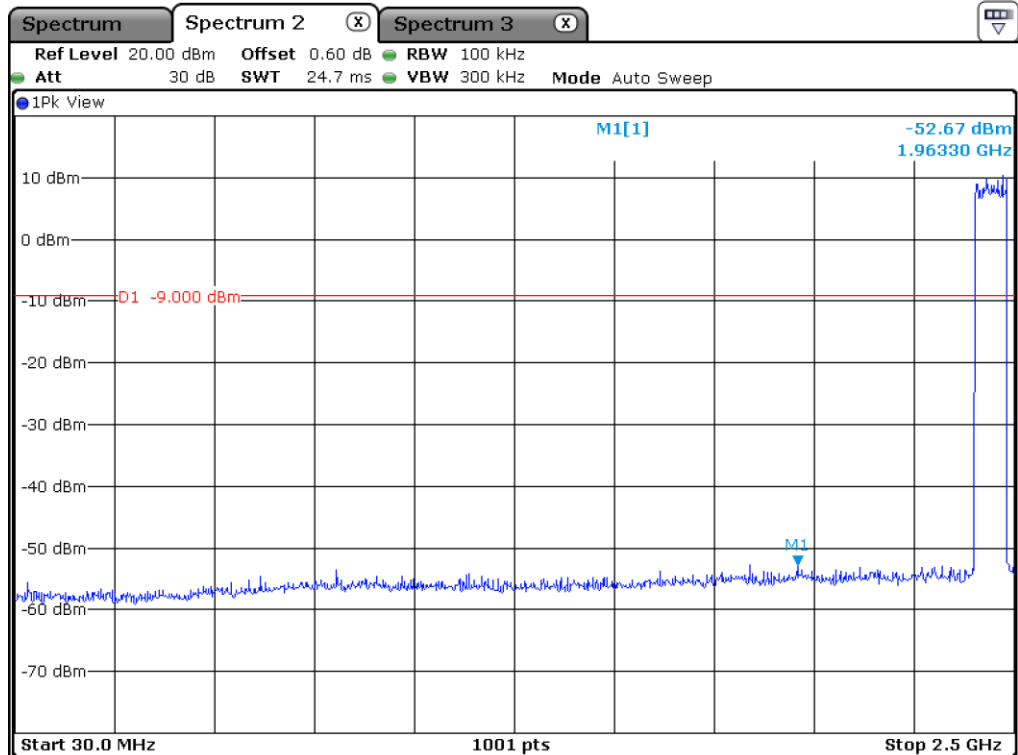
High Channel

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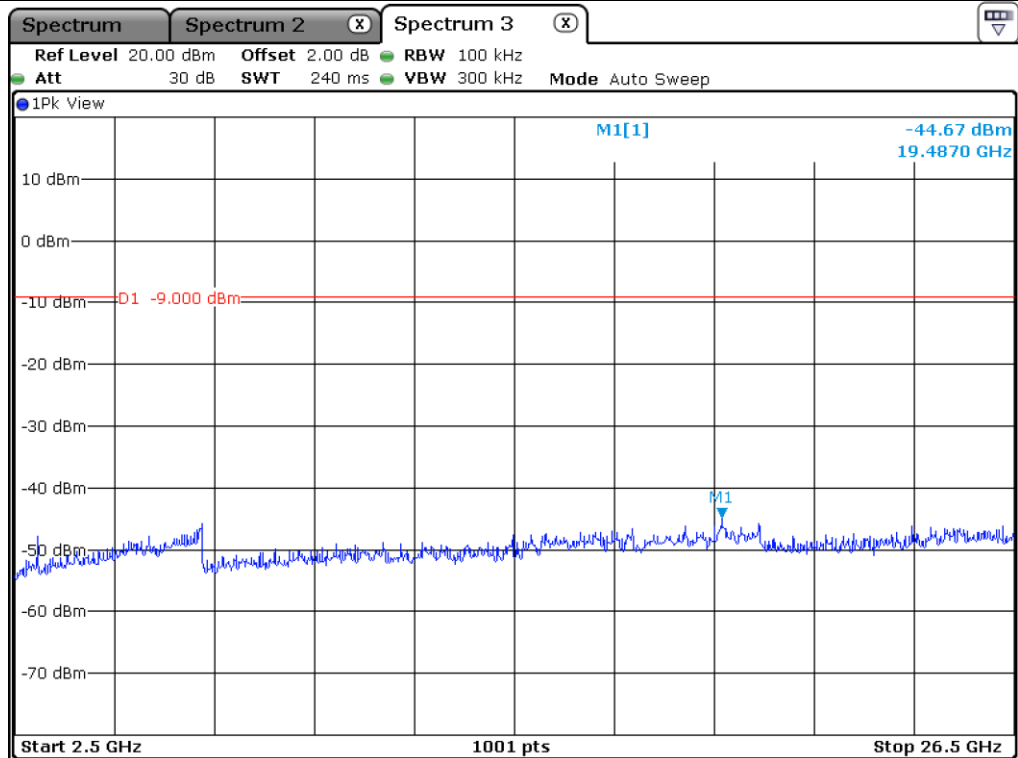
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Hopping Mode



Hopping Mode

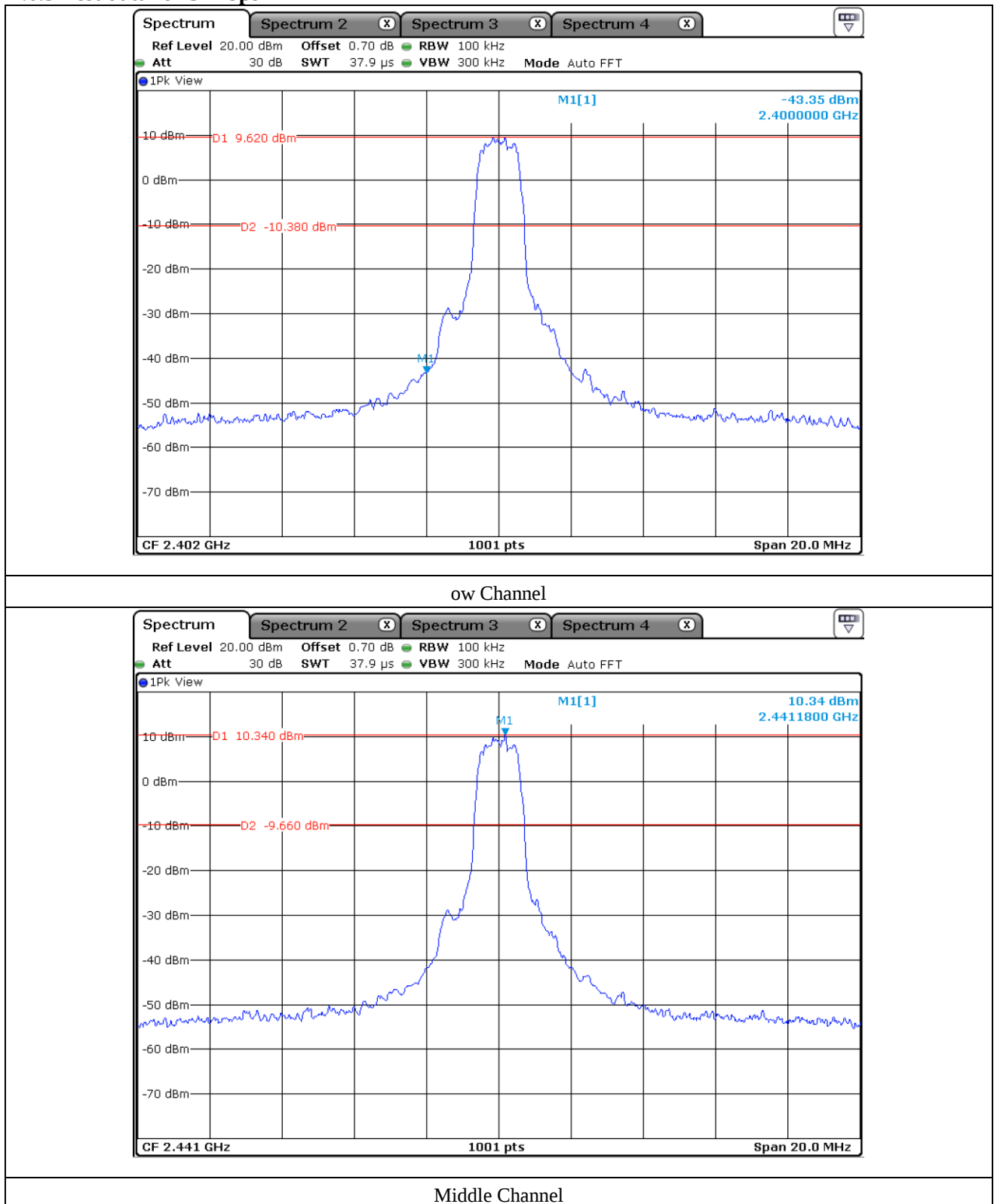
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12.6.3 Test data for 3 Mbps

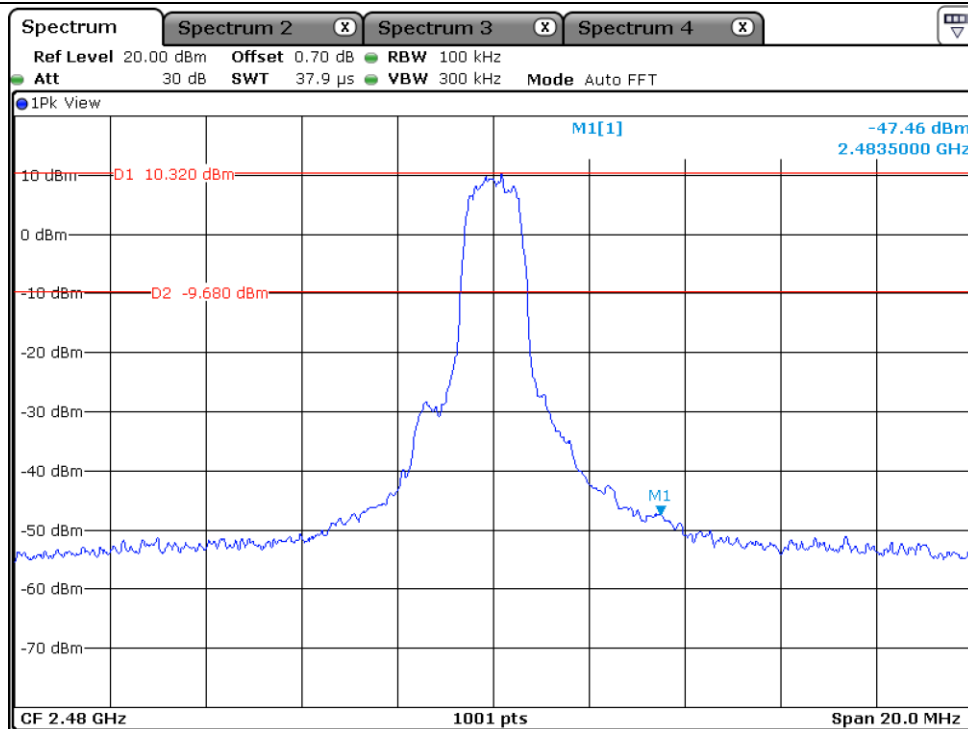


This Report is not correlated with the authentication of KOLAS

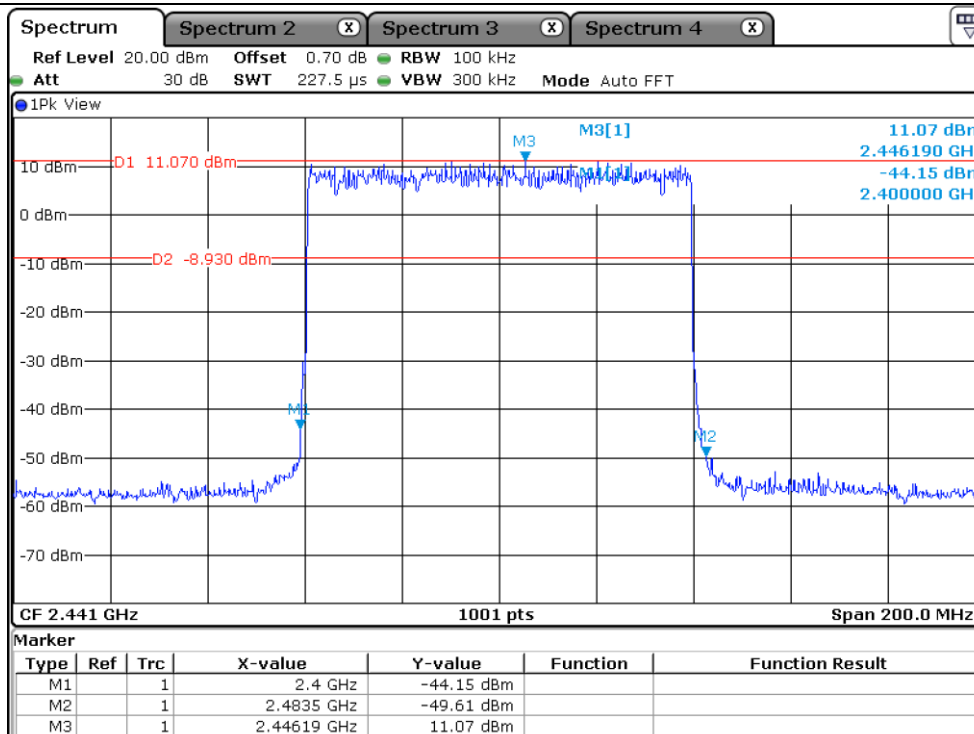
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High Channel



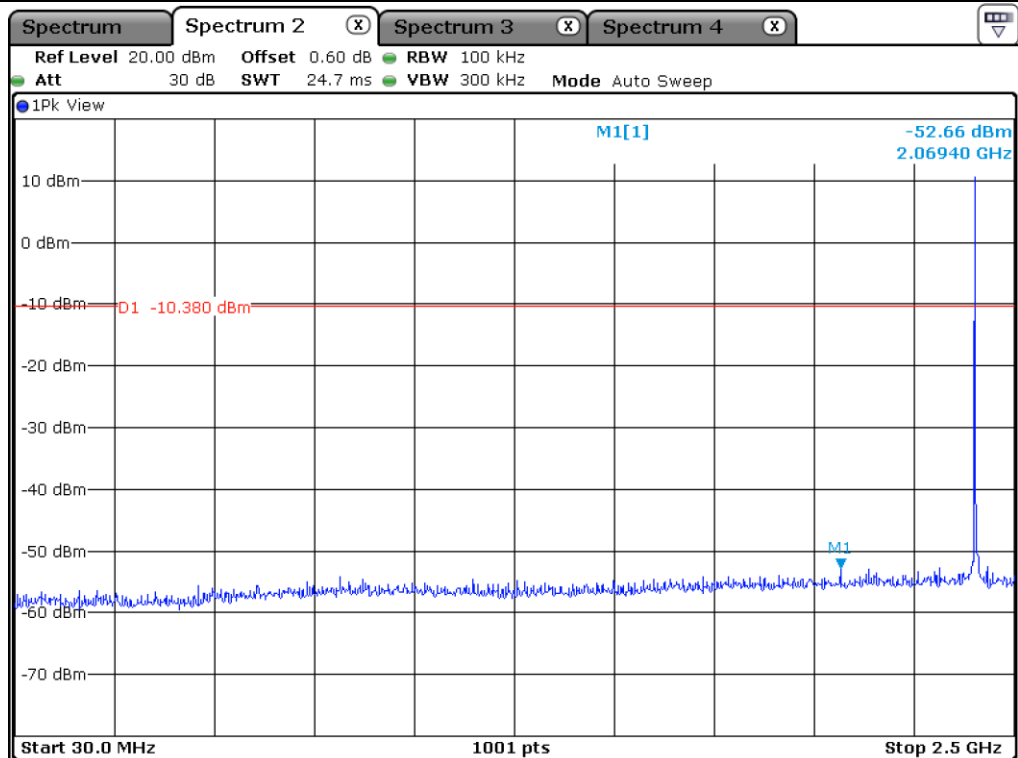
Hopping Mode

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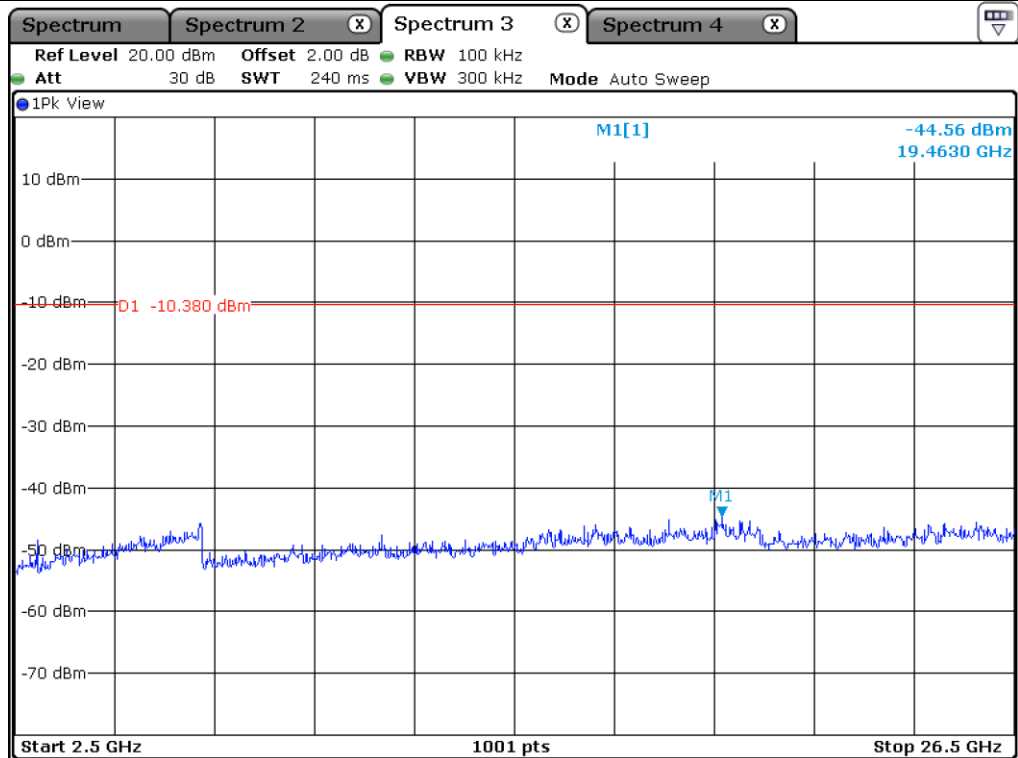
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Low Channel



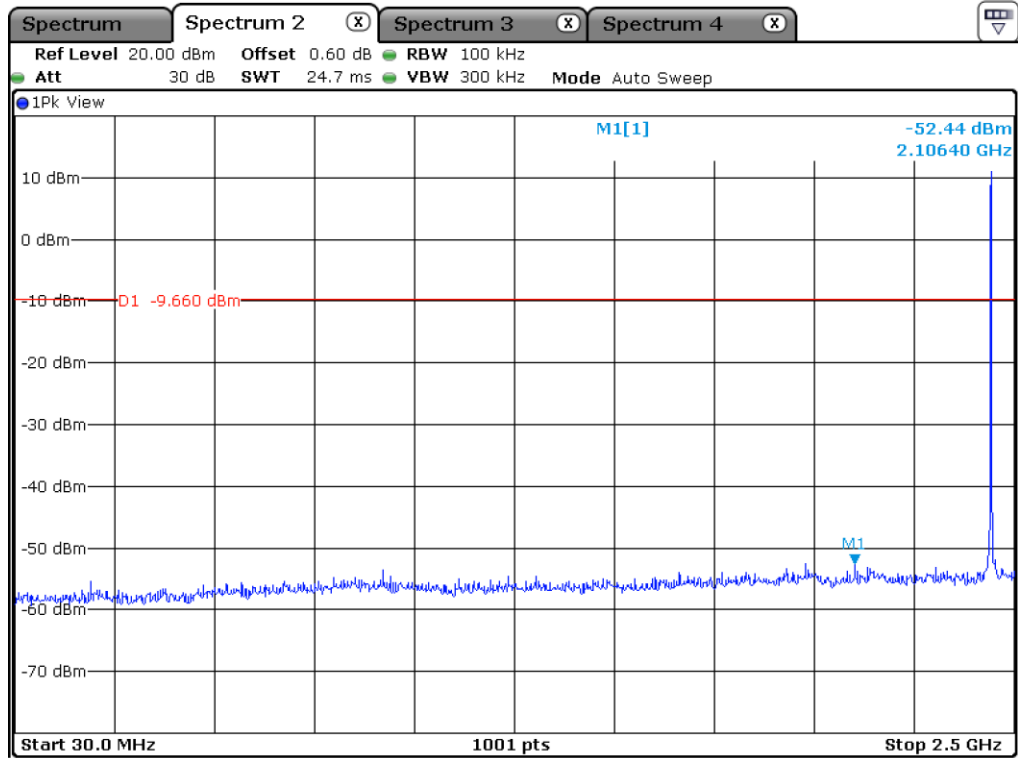
Low Channel

This Report is not correlated with the authentication of KOLAS

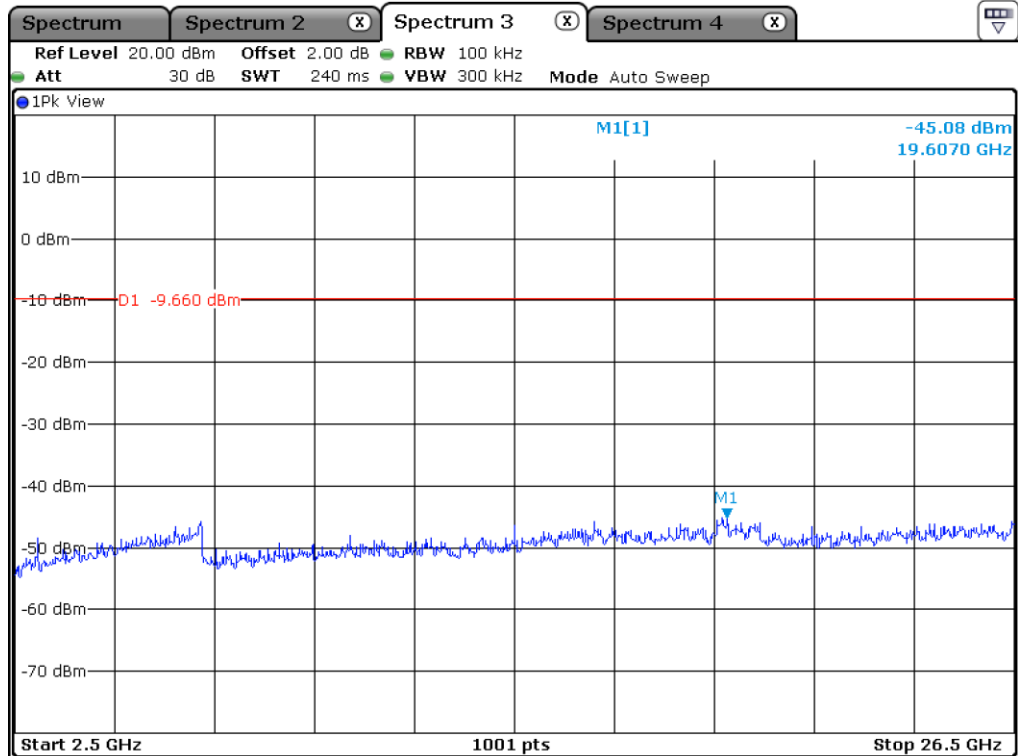
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Middle Channel



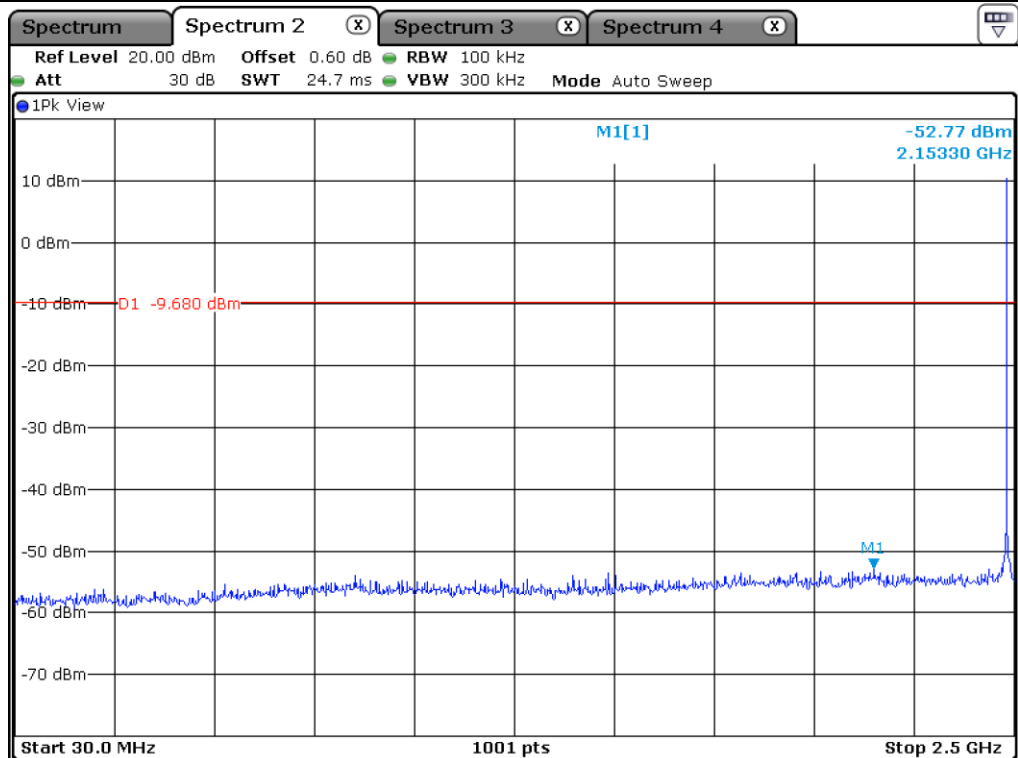
Middle Channel

This Report is not correlated with the authentication of KOLAS

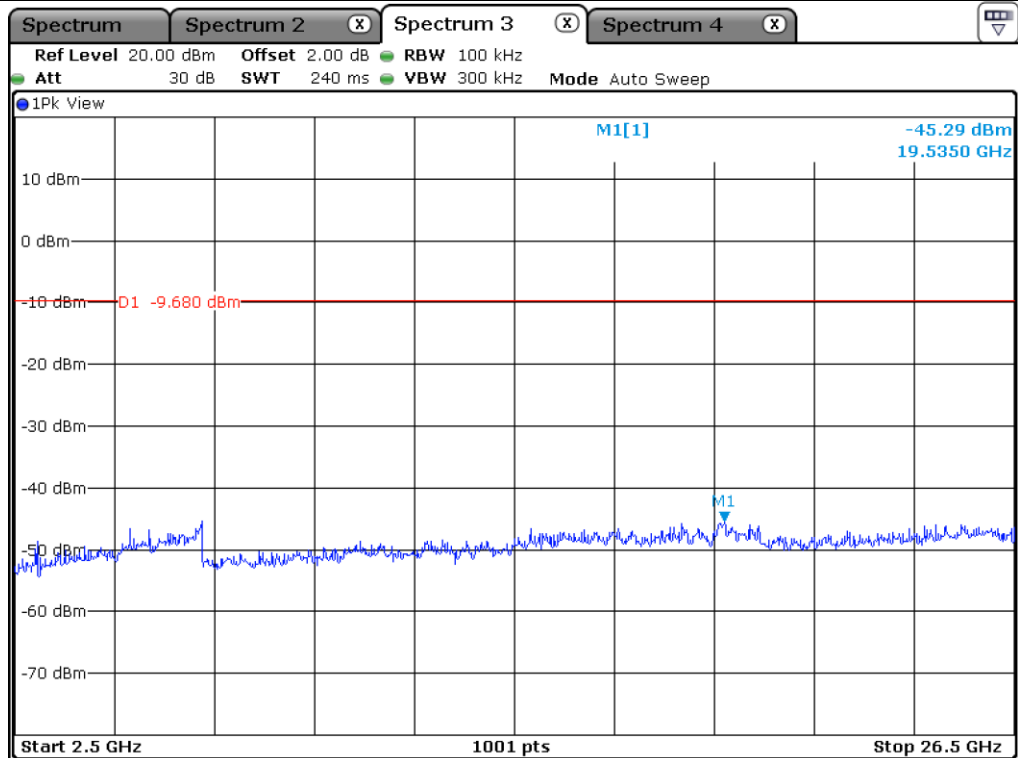
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High Channel



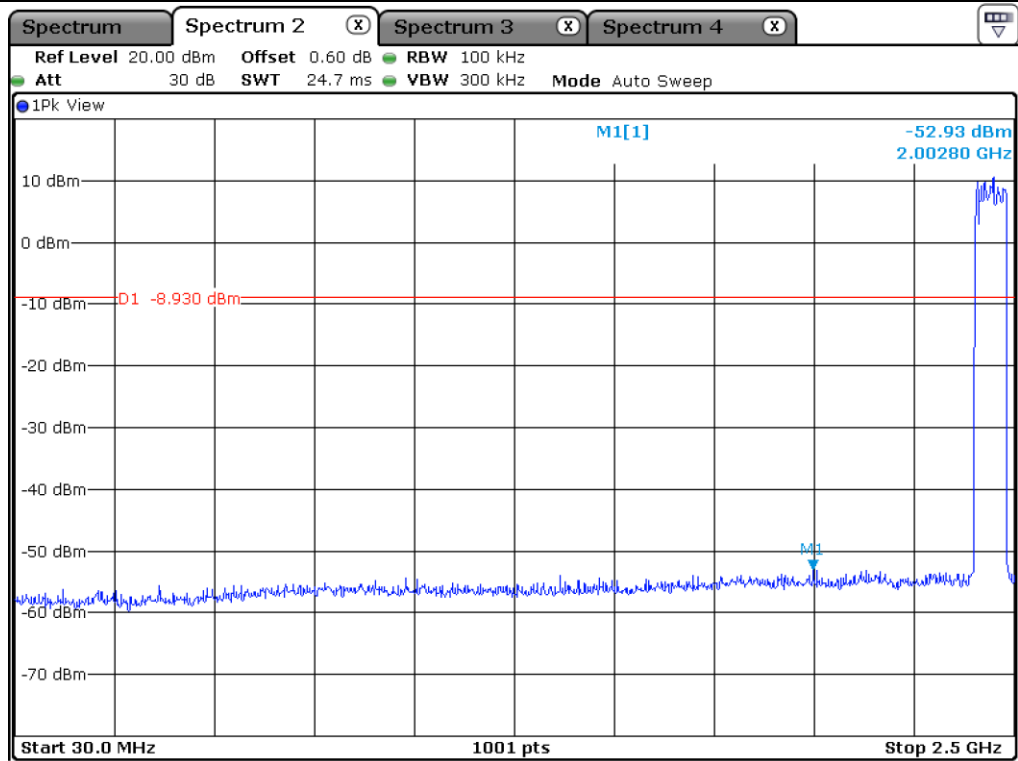
High Channel

This Report is not correlated with the authentication of KOLAS

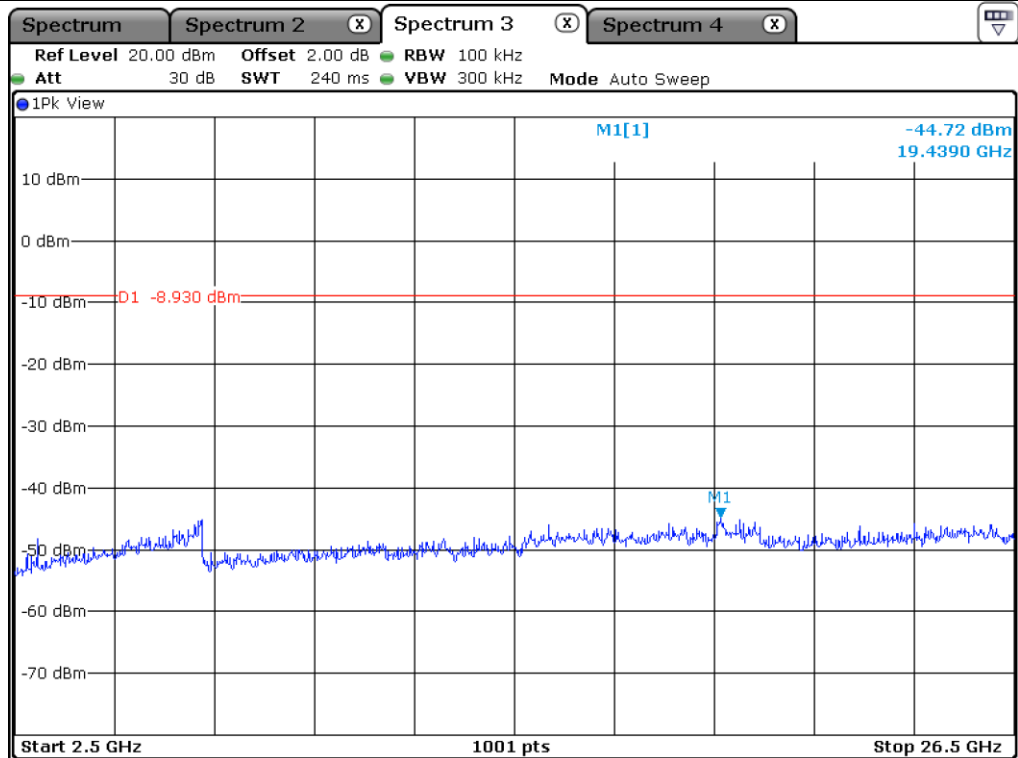
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Hopping Mode



Hopping Mode

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12.6 Test data for Transmitting mode radiated emission

12.6.1 Radiated Emission which fall in the Restricted Band (Left Earbud)

12.6.1.1 Test data for 1 Mbps

- . Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- . Video bandwidth : 3 MHz for Peak and Average Mode
- . Measurement distance : 3 m
- . Duty Cycle : 76.60 %
- . Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
2 389.91	50.56	Peak	H	28.50	8.20	45.79	-	41.47	74.00	32.53
2 338.81	40.07	Average	H	28.00	8.20	45.79	1.16	31.64	54.00	22.36
2 389.91	49.30	Peak	V	28.50	8.20	45.79	-	40.21	74.00	33.79
2 338.45	40.19	Average	V	28.00	8.20	45.79	1.16	31.76	54.00	22.24
Test Data for High Channel										
2 483.50	56.04	Peak	H	28.80	8.33	45.79	-	47.38	74.00	26.62
2 483.50	46.13	Average	H	28.80	8.33	45.79	1.16	38.63	54.00	15.37
2 483.50	53.36	Peak	V	28.80	8.33	45.79	-	44.70	74.00	29.30
2 483.50	43.46	Average	V	28.80	8.33	45.79	1.16	35.96	54.00	18.04

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amp Gain} + \text{Duty Factor}$$

12.6.1.2 Test data for 2 Mbps

- . Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- . Video bandwidth : 3 MHz for Peak and Average Mode
- . Measurement distance : 3 m
- . Duty Cycle : 76.60 %
- . Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
2 348.00	50.48	Peak	H	28.00	8.20	45.79	-	40.89	74.00	33.11
2 389.91	40.64	Average	H	28.50	8.20	45.79	1.16	32.71	54.00	21.29
2 389.55	50.27	Peak	V	28.50	8.20	45.79	-	41.18	74.00	32.82
2 343.23	39.73	Average	V	28.00	8.20	45.79	1.16	31.30	54.00	22.70
Test Data for High Channel										
2 483.50	55.04	Peak	H	28.80	8.33	45.79	-	46.38	74.00	27.62
2 483.50	44.24	Average	H	28.80	8.33	45.79	1.16	36.74	54.00	17.26
2 483.50	51.91	Peak	V	28.80	8.33	45.79	-	43.25	74.00	30.75
2 483.50	43.18	Average	V	28.80	8.33	45.79	1.16	35.68	54.00	18.32

Tabulated test data for Restricted Band

Remark: “H”: Horizontal, “V”: Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amp Gain} + \text{Duty Factor}$$

12.6.1.3 Test data for 3 Mbps

- . Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- . Video bandwidth : 3 MHz for Peak and Average Mode
- . Measurement distance : 3 m
- . Duty Cycle : 76.70 %
- . Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
2 388.07	47.37	Peak	H	27.50	10.90	45.79	-	39.98	74.00	34.02
2 389.91	36.50	Average	H	27.50	10.90	45.79	1.15	30.26	54.00	23.74
2 346.25	46.79	Peak	V	27.50	10.90	45.79	-	39.40	74.00	34.60
2 389.91	36.23	Average	V	27.50	10.90	45.79	1.15	29.99	54.00	24.01
Test Data for High Channel										
2 483.50	62.30	Peak	H	27.30	11.10	45.79	-	54.91	74.00	19.09
2 483.50	42.14	Average	H	27.30	11.10	45.79	1.15	35.90	54.00	18.10
2 483.50	60.85	Peak	V	27.30	11.10	45.79	-	53.46	74.00	20.54
2 483.50	40.85	Average	V	27.30	11.10	45.79	1.15	34.61	54.00	19.39

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amp Gain} + \text{Duty Factor}$$

12.6.2 Radiated Emission which fall in the Restricted Band (Right Earbud)

12.6.2.1 Test data for 1 Mbps

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- Video bandwidth : 3 MHz for Peak and Average Mode
- Measurement distance : 3 m
- Duty Cycle : 76.60 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
2 389.82	54.54	Peak	H	28.50	8.20	45.79	-	45.45	74.00	28.55
2 389.82	43.31	Average	H	28.50	8.20	45.79	1.16	35.38	54.00	18.62
2 388.26	50.08	Peak	V	28.50	8.20	45.79	-	40.99	74.00	33.01
2 341.75	40.15	Average	V	28.00	8.20	45.79	1.16	31.72	54.00	22.28
Test Data for High Channel										
2 483.50	61.98	Peak	H	28.80	8.33	45.79	-	53.32	74.00	20.68
2 483.50	47.97	Average	H	28.80	8.33	45.79	1.16	40.47	54.00	13.53
2 483.62	58.38	Peak	V	28.80	8.33	45.79	-	49.72	74.00	24.28
2 483.50	46.40	Average	V	28.80	8.33	45.79	1.16	38.90	54.00	15.10

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amp Gain} + \text{Duty Factor}$$

12.6.2.2 Test data for 2 Mbps

- . Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- . Video bandwidth : 3 MHz for Peak and Average Mode
- . Measurement distance : 3 m
- . Duty Cycle : 76.60 %
- . Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
2 389.46	51.53	Peak	H	28.50	8.20	45.79	-	42.44	74.00	31.56
2 389.91	42.52	Average	H	28.50	8.20	45.79	1.16	34.59	54.00	19.41
2 389.91	50.66	Peak	V	28.50	8.20	45.79	-	41.57	74.00	32.43
2 340.93	40.16	Average	V	28.00	8.20	45.79	1.16	31.73	54.00	22.27
Test Data for High Channel										
2 483.50	60.06	Peak	H	28.80	8.33	45.79	-	51.40	74.00	22.60
2 483.50	48.14	Average	H	28.80	8.33	45.79	1.16	40.64	54.00	13.36
2 483.50	57.21	Peak	V	28.80	8.33	45.79	-	48.55	74.00	25.45
2 483.50	45.70	Average	V	28.80	8.33	45.79	1.16	38.20	54.00	15.80

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amp Gain} + \text{Duty Factor}$$

12.6.2.3 Test data for 3 Mbps

- . Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- . Video bandwidth : 3 MHz for Peak and Average Mode
- . Measurement distance : 3 m
- . Duty Cycle : 76.70 %
- . Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
2 389.71	50.93	Peak	H	27.50	10.90	45.79	-	43.54	74.00	30.46
2 388.08	41.13	Average	H	27.50	10.90	45.79	1.15	34.89	54.00	19.11
2 386.31	50.38	Peak	V	27.50	10.90	45.79	-	42.99	74.00	31.01
2 389.73	41.02	Average	V	27.50	10.90	45.79	1.15	34.78	54.00	19.22
Test Data for High Channel										
2 483.50	62.64	Peak	H	27.30	11.10	45.79	-	55.25	74.00	18.75
2 483.50	48.30	Average	H	27.30	11.10	45.79	1.15	42.06	54.00	11.94
2 483.50	61.50	Peak	V	27.30	11.10	45.79	-	54.11	74.00	19.89
2 483.50	45.30	Average	V	27.30	11.10	45.79	1.15	39.06	54.00	14.94

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amp Gain} + \text{Duty Factor}$$

12.6.3 Spurious & Harmonic Radiated Emission above 1 GHz (Left Earbud)

12.6.3.1 Test data for 1 Mbps

- . Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
- . Video bandwidth : 3 MHz for Peak and Average Mode
- . Frequency range : 1 GHz ~ 26.5 GHz
- . Measurement distance : 3 m
- . Duty Cycle : 76.60 %
- . Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
4 804.00	45.03	Peak	H	33.50	11.21	45.03	-	44.71	74.00	29.29
4 804.00	36.07	Average	H	33.50	11.21	45.03	1.16	36.91	54.00	17.09
4 804.00	44.93	Peak	V	33.50	11.21	45.03	-	44.61	74.00	29.39
4 804.00	36.55	Average	V	33.50	11.21	45.03	1.16	37.39	54.00	16.61
Test Data for Middle Channel										
4 882.00	45.24	Peak	H	33.50	11.23	45.03	-	44.94	74.00	29.06
4 882.00	36.84	Average	H	33.50	11.23	45.03	1.16	37.70	54.00	16.30
4 882.00	44.91	Peak	V	33.50	11.23	45.03	-	44.61	74.00	29.39
4 882.00	36.56	Average	V	33.50	11.23	45.03	1.16	37.42	54.00	16.58
Test Data for High Channel										
4 960.00	45.41	Peak	H	33.70	11.31	45.03	-	45.39	74.00	28.61
4 960.00	35.78	Average	H	33.70	11.31	45.03	1.16	36.92	54.00	17.08
4 960.00	43.72	Peak	V	33.70	11.31	45.03	-	43.70	74.00	30.30
4 960.00	35.23	Average	V	33.70	11.31	45.03	1.16	36.37	54.00	17.63

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss - Amp Gain + Duty Factor

12.6.3.2 Test data for 2 Mbps

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Duty Cycle : 76.60 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
4 804.00	44.83	Peak	H	33.50	11.21	45.03	-	44.51	74.00	29.49
4 804.00	35.05	Average	H	33.50	11.21	45.03	1.16	35.89	54.00	18.11
4 804.00	44.60	Peak	V	33.50	11.21	45.03	-	44.28	74.00	29.72
4 804.00	35.19	Average	V	33.50	11.21	45.03	1.16	36.03	54.00	17.97
Test Data for Middle Channel										
4 882.00	44.89	Peak	H	33.50	11.23	45.03	-	44.59	74.00	29.41
4 882.00	35.74	Average	H	33.50	11.23	45.03	1.16	36.60	54.00	17.40
4 882.00	44.26	Peak	V	33.50	11.23	45.03	-	43.96	74.00	30.04
4 882.00	35.00	Average	V	33.50	11.23	45.03	1.16	35.86	54.00	18.14
Test Data for High Channel										
4 960.00	43.19	Peak	H	33.70	11.31	45.03	-	43.17	74.00	30.83
4 960.00	34.67	Average	H	33.70	11.31	45.03	1.16	35.81	54.00	18.19
4 960.00	43.41	Peak	V	33.70	11.31	45.03	-	43.39	74.00	30.61
4 960.00	33.67	Average	V	33.70	11.31	45.03	1.16	34.81	54.00	19.19

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dBμV/m)} - \text{Total Level (dBμV/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amp Gain} + \text{Duty Factor}$$

12.6.3.3 Test data for 3 Mbps

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Duty Cycle : 76.70 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
4 804.00	42.94	Peak	H	31.30	15.70	45.03	-	44.91	74.00	29.09
4 804.00	32.47	Average	H	31.30	15.70	45.03	1.15	35.59	54.00	18.41
4 804.00	42.55	Peak	V	31.30	15.70	45.03	-	44.52	74.00	29.48
4 804.00	32.73	Average	V	31.30	15.70	45.03	1.15	35.85	54.00	18.15
Test Data for Middle Channel										
4 882.00	41.90	Peak	H	31.30	15.80	45.03	-	43.97	74.00	30.03
4 882.00	32.28	Average	H	31.30	15.80	45.03	1.15	35.50	54.00	18.50
4 882.00	41.84	Peak	V	31.30	15.80	45.03	-	43.91	74.00	30.09
4 882.00	31.84	Average	V	31.30	15.80	45.03	1.15	35.06	54.00	18.94
Test Data for High Channel										
4 960.00	41.93	Peak	H	31.70	15.90	45.03	-	44.50	74.00	29.50
4 960.00	31.77	Average	H	31.70	15.90	45.03	1.15	35.49	54.00	18.51
4 960.00	42.51	Peak	V	31.70	15.90	45.03	-	45.08	74.00	28.92
4 960.00	32.30	Average	V	31.70	15.90	45.03	1.15	36.02	54.00	17.98

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dBμV/m)} - \text{Total Level (dBμV/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amp Gain} + \text{Duty Factor}$$

12.6.4 Spurious & Harmonic Radiated Emission above 1 GHz (Right Earbud)

12.6.4.1 Test data for 1 Mbps

- . Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
- . Video bandwidth : 3 MHz for Peak and Average Mode
- . Frequency range : 1 GHz ~ 26.5 GHz
- . Measurement distance : 3 m
- . Duty Cycle : 76.60 %
- . Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
4 804.00	49.18	Peak	H	33.50	11.21	45.03	-	48.86	74.00	25.14
4 804.00	44.90	Average	H	33.50	11.21	45.03	1.16	45.74	54.00	8.26
4 804.00	46.78	Peak	V	33.50	11.21	45.03	-	46.46	74.00	27.54
4 804.00	40.74	Average	V	33.50	11.21	45.03	1.16	41.58	54.00	12.42
Test Data for Middle Channel										
4 882.00	49.39	Peak	H	33.50	11.23	45.03	-	49.09	74.00	24.91
4 882.00	44.26	Average	H	33.50	11.23	45.03	1.16	45.12	54.00	8.88
4 882.00	45.01	Peak	V	33.50	11.23	45.03	-	44.71	74.00	29.29
4 882.00	37.75	Average	V	33.50	11.23	45.03	1.16	38.61	54.00	15.39
Test Data for High Channel										
4 960.00	49.61	Peak	H	33.70	11.31	45.03	-	49.59	74.00	24.41
4 960.00	43.73	Average	H	33.70	11.31	45.03	1.16	44.87	54.00	9.13
4 960.00	43.77	Peak	V	33.70	11.31	45.03	-	43.75	74.00	30.25
4 960.00	35.50	Average	V	33.70	11.31	45.03	1.16	36.64	54.00	17.36

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss - Amp Gain + Duty Factor

12.6.4.2 Test data for 2 Mbps

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Duty Cycle : 76.60 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
4 804.00	48.13	Peak	H	33.50	11.21	45.03	-	47.81	74.00	26.19
4 804.00	40.88	Average	H	33.50	11.21	45.03	1.16	41.72	54.00	12.28
4 804.00	44.81	Peak	V	33.50	11.21	45.03	-	44.49	74.00	29.51
4 804.00	37.24	Average	V	33.50	11.21	45.03	1.16	38.08	54.00	15.92
Test Data for Middle Channel										
4 882.00	48.05	Peak	H	33.50	11.23	45.03	-	47.75	74.00	26.25
4 882.00	39.25	Average	H	33.50	11.23	45.03	1.16	40.11	54.00	13.89
4 882.00	43.83	Peak	V	33.50	11.23	45.03	-	43.53	74.00	30.47
4 882.00	35.29	Average	V	33.50	11.23	45.03	1.16	36.15	54.00	17.85
Test Data for High Channel										
4 960.00	47.75	Peak	H	33.70	11.31	45.03	-	47.73	74.00	26.27
4 960.00	39.62	Average	H	33.70	11.31	45.03	1.16	40.76	54.00	13.24
4 960.00	43.37	Peak	V	33.70	11.31	45.03	-	43.35	74.00	30.65
4 960.00	34.29	Average	V	33.70	11.31	45.03	1.16	35.43	54.00	18.57

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dBμV/m)} - \text{Total Level (dBμV/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amp Gain} + \text{Duty Factor}$$

12.6.4.3 Test data for 3 Mbps

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Duty Cycle : 76.70 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
4 804.00	42.79	Peak	H	31.30	15.70	45.03	-	44.76	74.00	29.24
4 804.00	34.60	Average	H	31.30	15.70	45.03	1.15	37.72	54.00	16.28
4 804.00	41.47	Peak	V	31.30	15.70	45.03	-	43.44	74.00	30.56
4 804.00	32.05	Average	V	31.30	15.70	45.03	1.15	35.17	54.00	18.83
Test Data for Middle Channel										
4 882.00	42.90	Peak	H	31.30	15.80	45.03	-	44.97	74.00	29.03
4 882.00	33.64	Average	H	31.30	15.80	45.03	1.15	36.86	54.00	17.14
4 882.00	41.53	Peak	V	31.30	15.80	45.03	-	43.60	74.00	30.40
4 882.00	32.26	Average	V	31.30	15.80	45.03	1.15	35.48	54.00	18.52
Test Data for High Channel										
4 960.00	42.66	Peak	H	31.70	15.90	45.03	-	45.23	74.00	28.77
4 960.00	32.40	Average	H	31.70	15.90	45.03	1.15	36.12	54.00	17.88
4 960.00	42.30	Peak	V	31.70	15.90	45.03	-	44.87	74.00	29.13
4 960.00	32.26	Average	V	31.70	15.90	45.03	1.15	35.98	54.00	18.02

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dBμV/m)} - \text{Total Level (dBμV/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amp Gain} + \text{Duty Factor}$$

13. RADIATED EMISSION TEST

13.1 Operating environment

Temperature : 23 °C
Relative humidity : 46 % R.H.

13.2 Test set-up

The radiated emissions measurements were on the 3 m semi anechoic chamber. The EUT and other support equipment were placed on a non-conductive turntable above the ground plane. The interconnecting cables from outside test site were inserted into ferrite clamps at the point where the cables reach the turntable.

The frequency spectrum from 30 MHz to 26.5 GHz was scanned and emission levels maximized at each frequency recorded. The system was rotated 360°, and the antenna was varied in height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for both horizontal and vertical polarization of the receiving antenna.

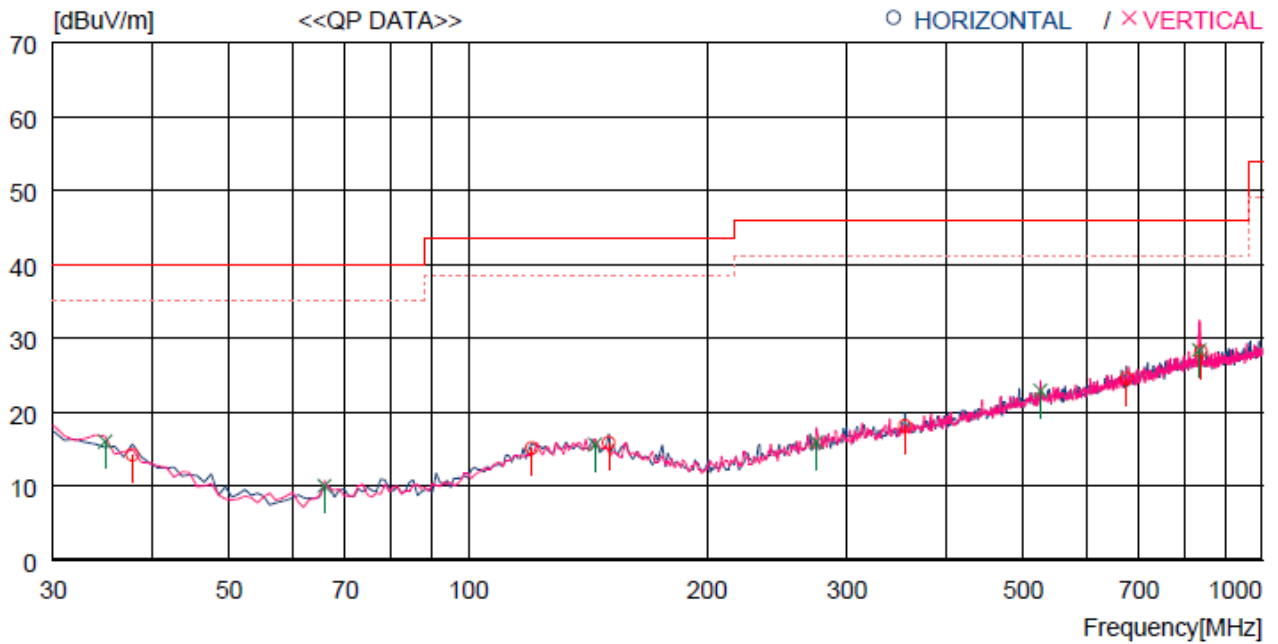
13.3 Test Date

May 19, 2022 ~ June 07, 2022

13.4 Test data for Left Earbud

13.4.1 Test data for 30 MHz ~ 1000 MHz

- . Resolution bandwidth : 120 kHz
- . Frequency range : 30 MHz ~ 1 000 MHz
- . Measurement distance : 3 m



No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	QP	FACTOR	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	37.760	26.9	18.0	1.3	32.0	14.2	40.0	25.8	200	283
2	120.210	26.6	18.6	2.0	32.1	15.1	43.5	28.4	400	282
3	150.280	27.3	18.4	2.2	32.1	15.8	43.5	27.7	300	359
4	354.950	27.0	20.0	3.3	32.2	18.1	46.0	27.9	200	37
5	675.046	27.4	25.1	4.5	32.4	24.6	46.0	21.4	200	0
6	838.001	28.1	27.2	5.1	32.2	28.2	46.0	17.8	100	359
----- Vertical -----										
7	34.850	27.6	19.3	1.2	32.1	16.0	40.0	24.0	300	296
8	65.890	27.8	12.7	1.5	32.0	10.0	40.0	30.0	300	349
9	144.460	26.7	18.9	2.1	32.1	15.6	43.5	27.9	400	357
10	274.440	26.8	18.4	2.9	32.2	15.9	46.0	30.1	200	359
11	525.670	27.8	23.4	4.0	32.3	22.9	46.0	23.1	200	100
12	833.151	28.3	27.2	5.1	32.2	28.4	46.0	17.6	400	359

13.4.2 Test data for Below 30 MHz

- . Resolution bandwidth : 200 Hz (from 9 kHz to 0.15 MHz), 9 kHz (from 0.15 MHz to 30 MHz)
- . Frequency range : 9 kHz ~ 30 MHz
- . Measurement distance : 3 m

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Factor (dB/m)	Cable Loss	Amp Gain	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
Emission from the EUT more than 20 dB below the limit in each frequency range.								

13.4.3 Test data for above 1 GHz

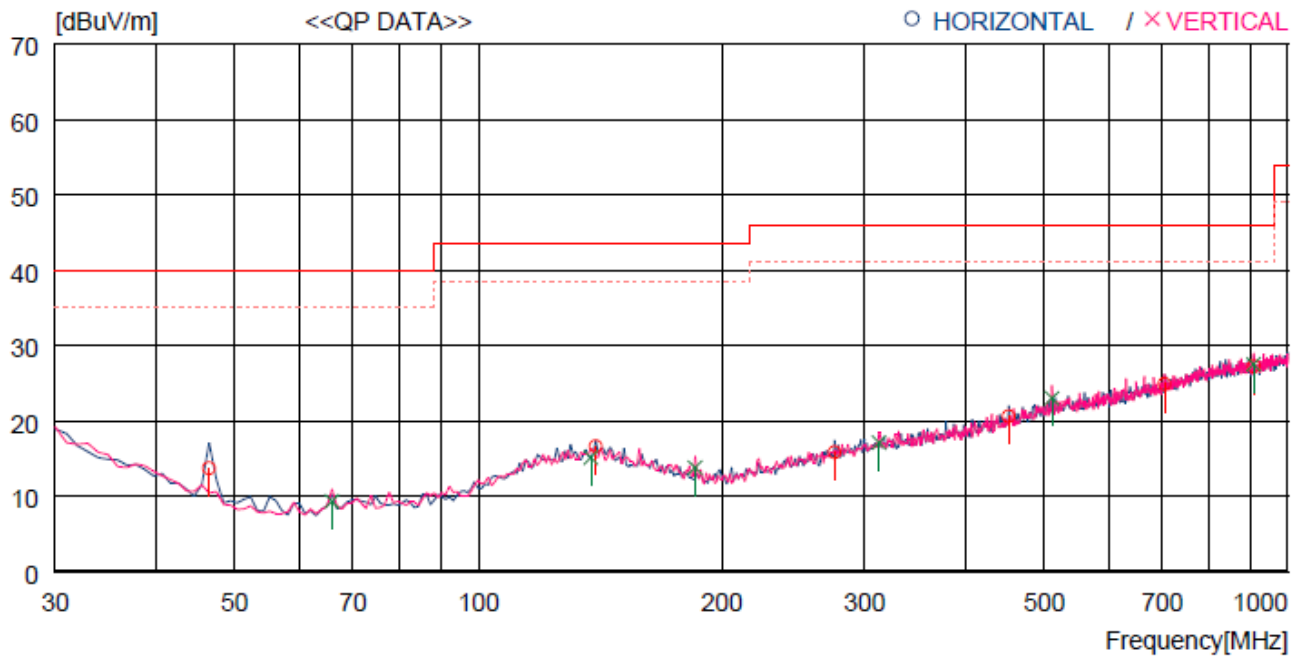
- . Resolution bandwidth : 1 MHz for Peak and Average Mode
- . Video bandwidth : 3 MHz for Peak and Average Mode
- . Frequency range : 1 GHz ~ 26.5 GHz
- . Measurement distance : 3 m

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Factor (dB/m)	Cable Loss	Amp Gain	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
Emission from the EUT more than 20 dB below the limit in each frequency range.								

13.5 Test data for Right Earbud

13.5.1 Test data for 30 MHz ~ 1000 MHz

- Resolution bandwidth : 120 kHz
- Frequency range : 30 MHz ~ 1 000 MHz
- Measurement distance : 3 m



No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	QP	FACTOR	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	46.490	30.1	14.2	1.4	32.0	13.7	40.0	26.3	200	359
2	139.610	27.4	19.2	2.1	32.1	16.6	43.5	26.9	100	0
3	275.410	26.7	18.4	2.9	32.2	15.8	46.0	30.2	100	158
4	451.951	27.3	21.9	3.7	32.3	20.6	46.0	25.4	300	0
5	704.145	27.1	25.5	4.7	32.4	24.9	46.0	21.1	400	359
6	907.839	26.3	27.6	5.3	32.0	27.2	46.0	18.8	200	359
----- Vertical -----										
7	65.890	27.1	12.7	1.5	32.0	9.3	40.0	30.7	400	0
8	137.670	26.0	19.1	2.1	32.1	15.1	43.5	28.4	200	346
9	185.200	27.3	16.2	2.4	32.1	13.8	43.5	29.7	200	0
10	312.270	26.8	19.4	3.1	32.2	17.1	46.0	28.9	200	295
11	511.121	28.2	23.2	3.9	32.3	23.0	46.0	23.0	100	359
12	906.869	26.6	27.6	5.3	32.0	27.5	46.0	18.5	100	359

13.5.2 Test data for Below 30 MHz

- . Resolution bandwidth : 200 Hz (from 9 kHz to 0.15 MHz), 9 kHz (from 0.15 MHz to 30 MHz)
- . Frequency range : 9 kHz ~ 30 MHz
- . Measurement distance : 3 m

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Factor (dB/m)	Cable Loss	Amp Gain	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
Emission from the EUT more than 20 dB below the limit in each frequency range.								

13.5.3 Test data for above 1 GHz

- . Resolution bandwidth : 1 MHz for Peak and Average Mode
- . Video bandwidth : 3 MHz for Peak and Average Mode
- . Frequency range : 1 GHz ~ 26.5 GHz
- . Measurement distance : 3 m

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Factor (dB/m)	Cable Loss	Amp Gain	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
Emission from the EUT more than 20 dB below the limit in each frequency range.								

14. LIST OF TEST EQUIPMENT

Model Number	Manufacturer	Description	Serial Number	Last Cal.(Interval)
FSV30	Rohde & Schwarz	Signal Analyzer	101372	Jul. 14, 2021 (1Y)
ESR7	Rohde & Schwarz	EMI Test Receiver	102190	Oct. 12, 2021 (1Y)
310N	Sonoma Instrument	AMPLIFIER	392756	Oct. 14, 2021 (1Y)
SCU18	Rohde & Schwarz	Signal Conditioning unit	102266	Jul. 14, 2021 (1Y)
SCU40A	Rohde & Schwarz	Signal Conditioning unit	100436	Jan. 18, 2022 (1Y)
DT2000-2t	Innco Systems GmbH	Turn Table	N/A	N/A
CO3000	Innco Systems GmbH	Controller	1026/40960617/P	N/A
MA-4640-XPET	Innco Systems GmbH	Antenna Master	MA4640/652/43100318/P	N/A
HLP-2008	TDK RF Solutions	Hybrid Antenna	131316	Mar. 07, 2022 (2Y)
BBHA9170	Schwarzbeck	Horn Antenna	BBHA9170178	Jan. 06, 2022(1Y)
BBHA9120D	Schwarzbeck	Horn Antenna	9120D-1349	Jul. 26, 2021 (1Y)
AH-118	Com-Power	Horn Antenna	10050061	Oct. 15, 2021 (1Y)
FMZB 1513	Schwarzbeck	Loop Antenna	1513-235	Mar. 24, 2022(2Y)
HPF 3GHz	Rohde & Schwarz	High Pass Filter	N/A	Jan. 18, 2022 (1Y)
GP-4303D	LG Precision Co.,Ltd	DC POWER SUPPLY	5071069	Jan. 03, 2022 (1Y)

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OTC-TRF-RF-001(0)

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