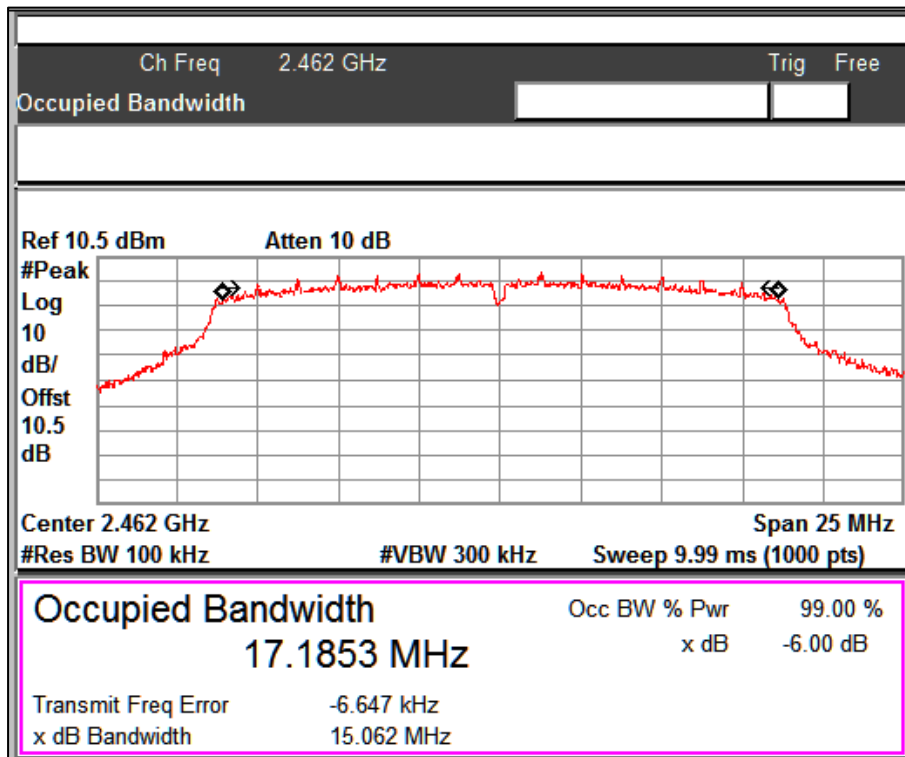


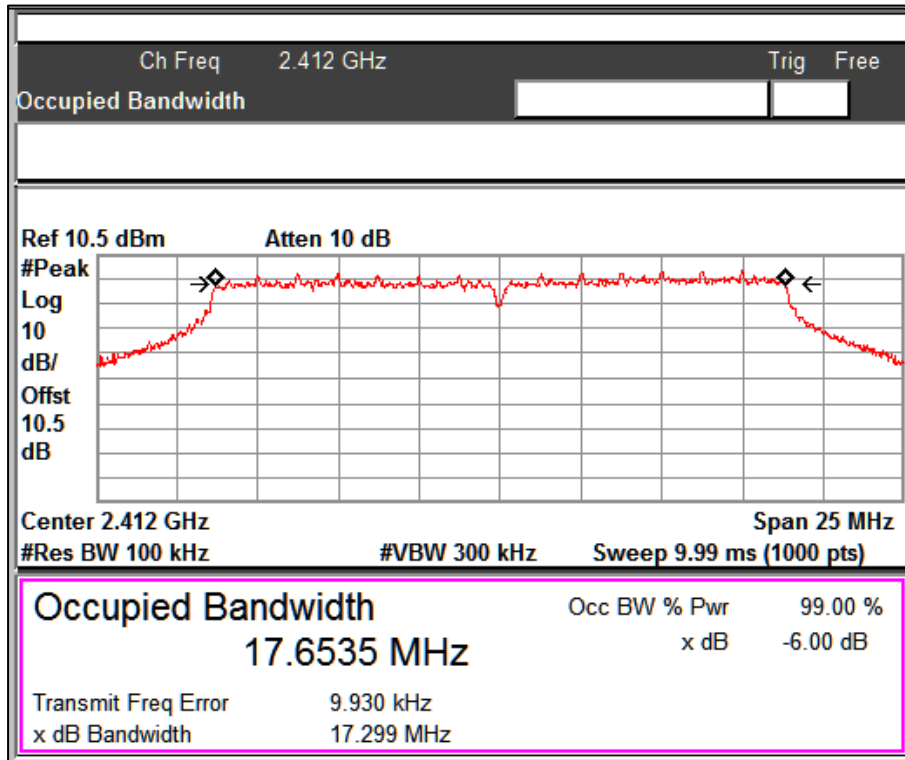
Data Rate: MCS0

Channel Frequency: 2437MHz



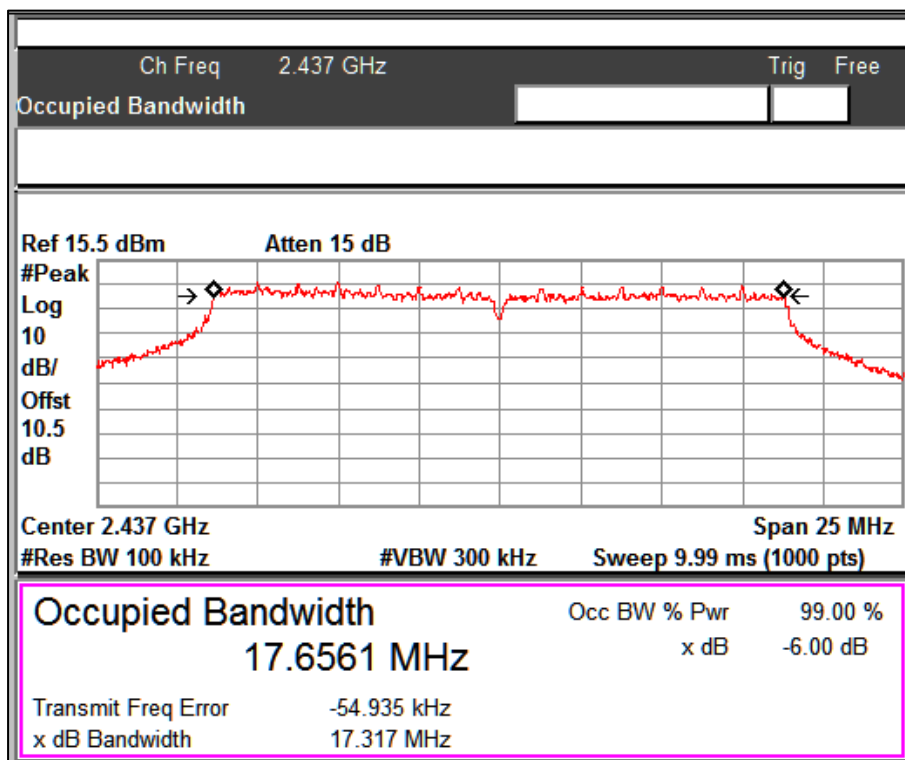
Data Rate: MCS0

Channel Frequency: 2462MHz



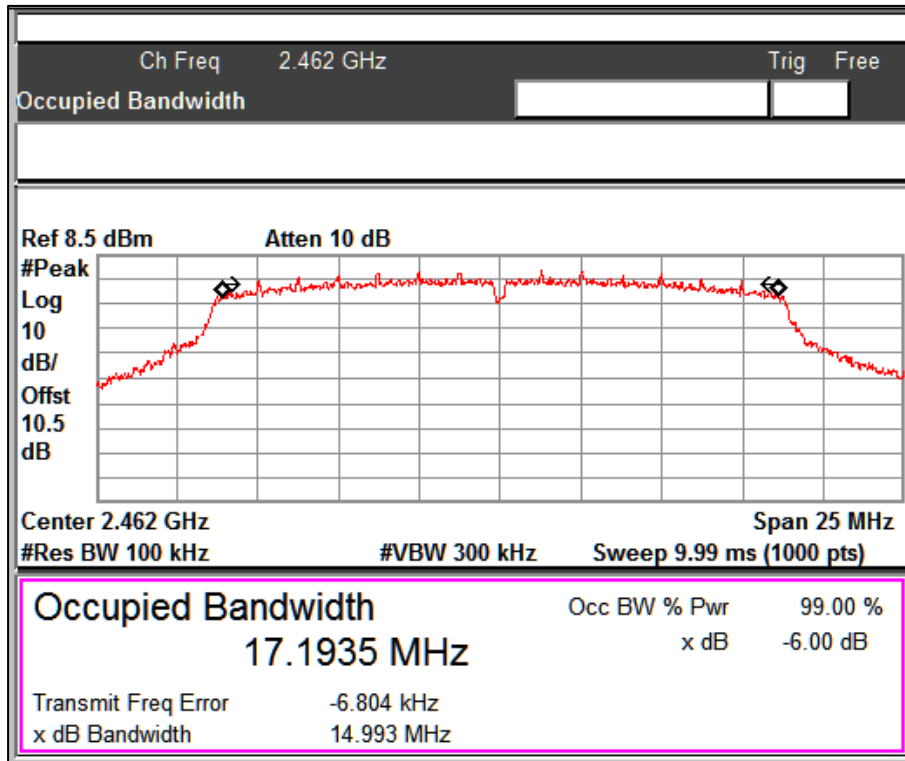
Data Rate: MCS7

Channel Frequency: 2412MHz



Data Rate: MCS7

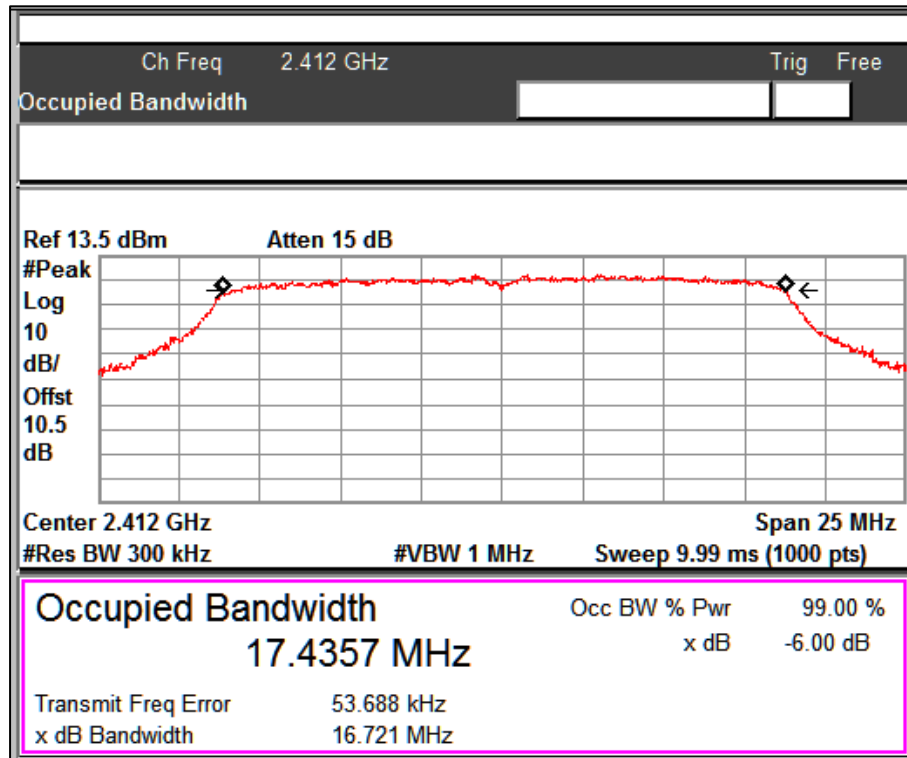
Channel Frequency: 2437MHz



Data Rate: MCS7

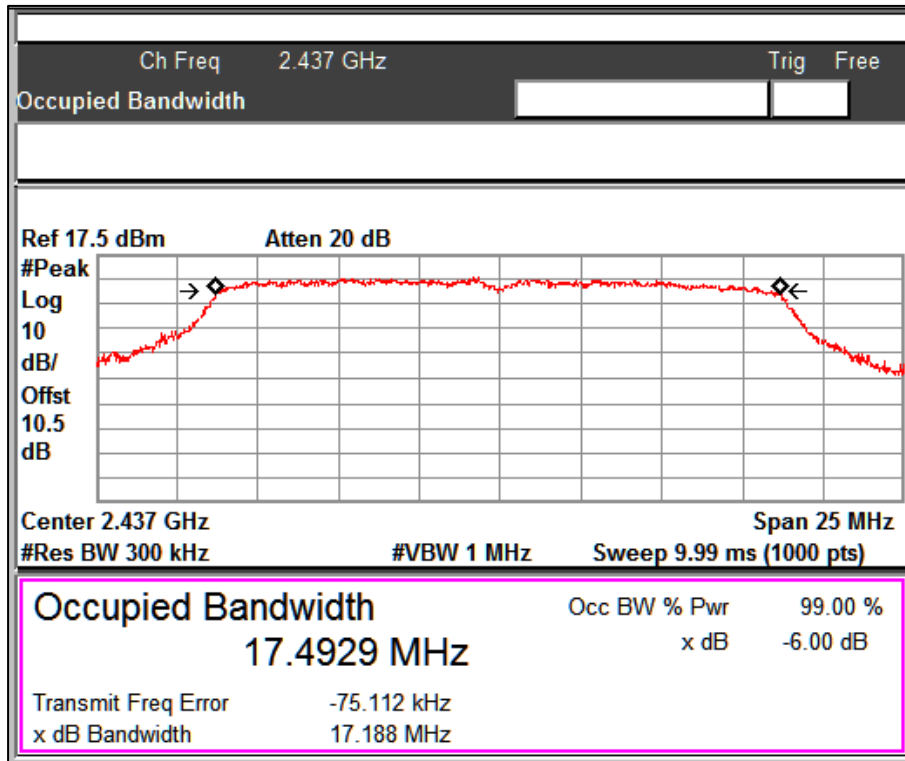
Channel Frequency: 2462MHz

Graphs for OCW 99 % bandwidth measurement



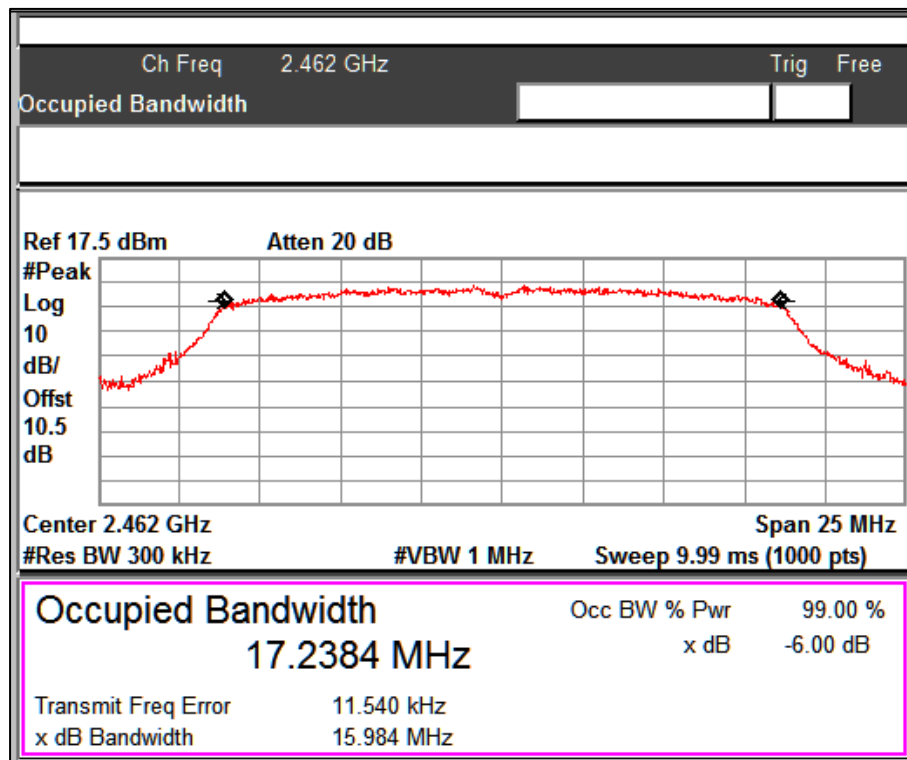
Data Rate: MCS0

Channel Frequency: 2412MHz



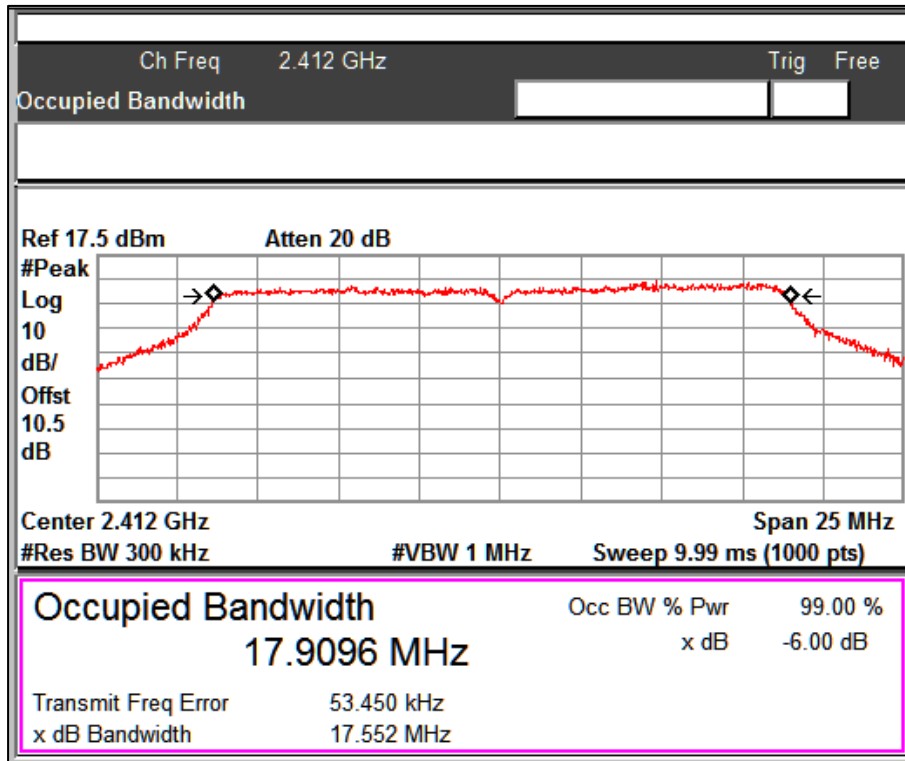
Data Rate: MCS0

Channel Frequency: 2437MHz



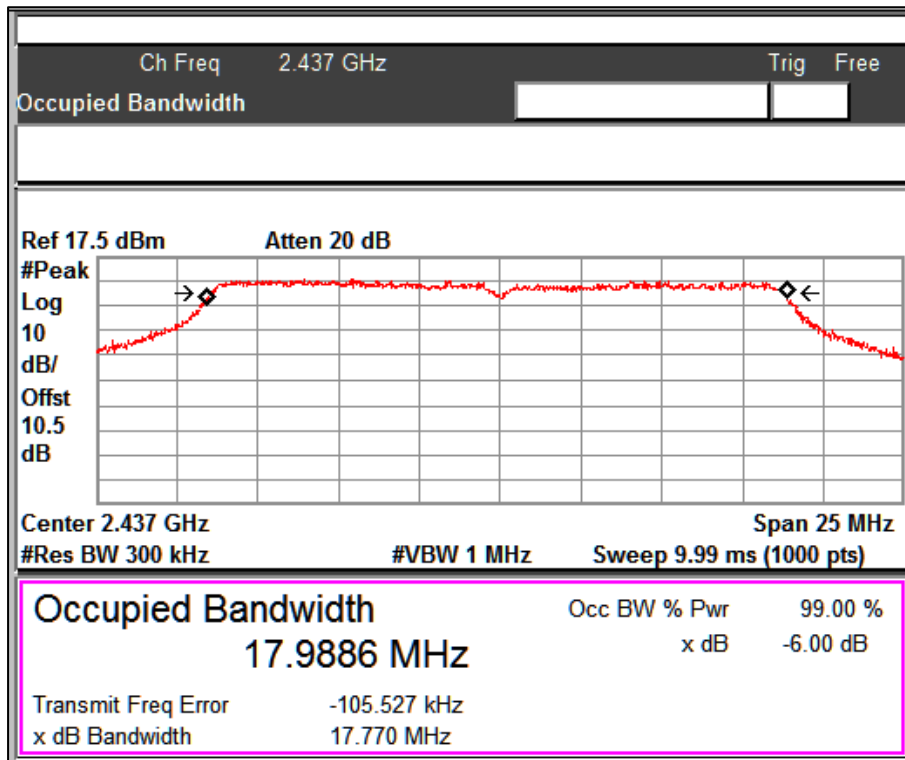
Data Rate: MCS0

Channel Frequency: 2462MHz



Data Rate: MCS7

Channel Frequency: 2412MHz



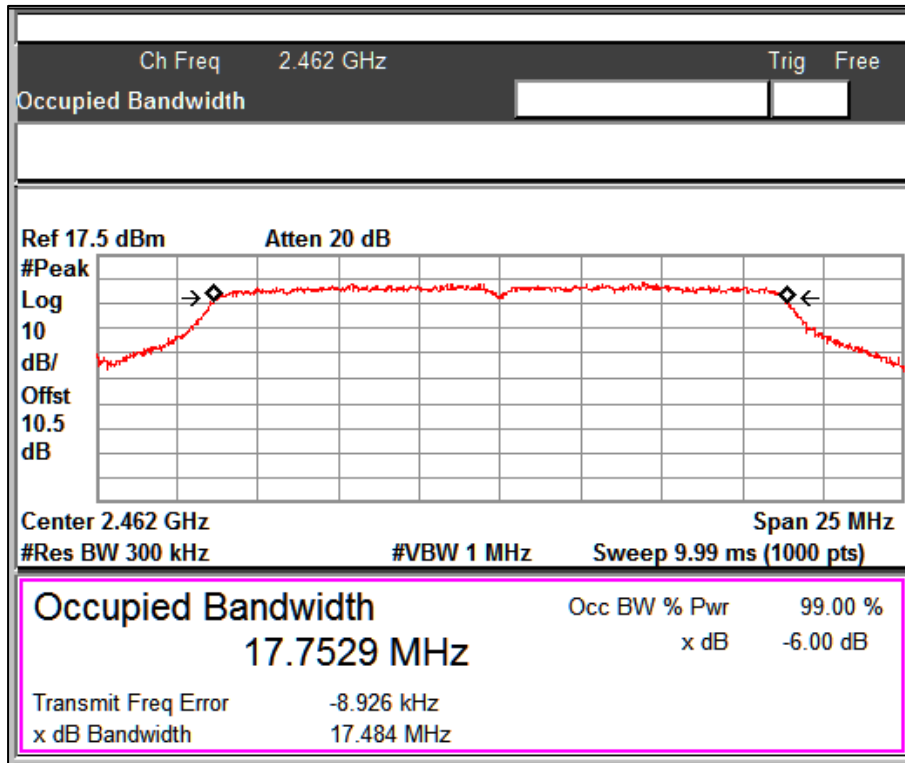
Data Rate: MCS7

Channel Frequency: 2437MHz

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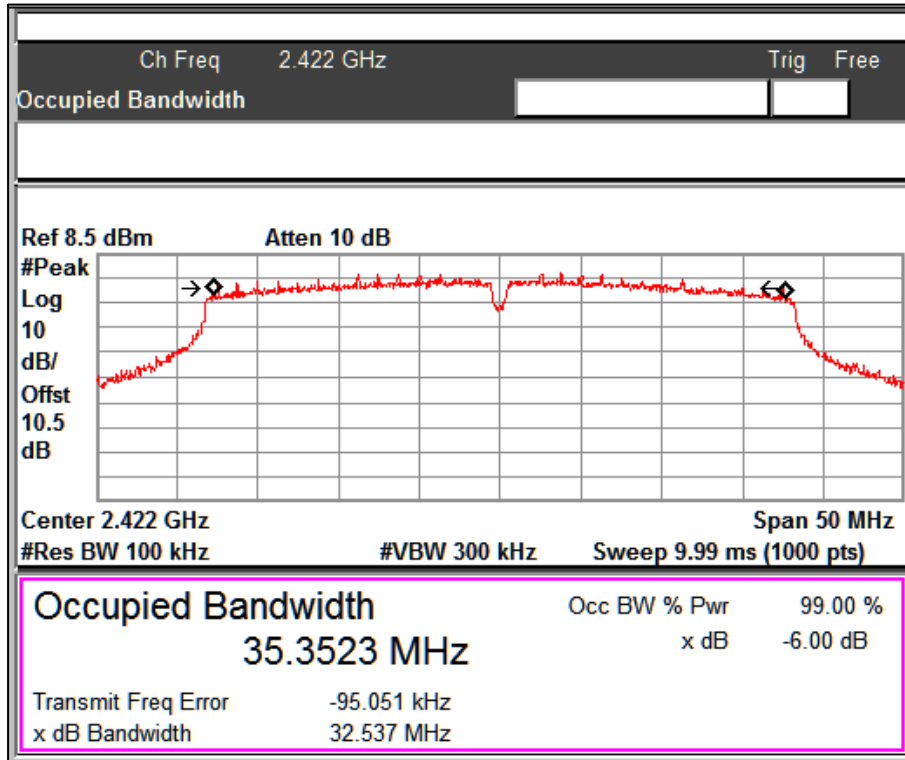
Data Rate: MCS7

Channel Frequency: 2462MHz

Modulation: 802.11n_40MHz

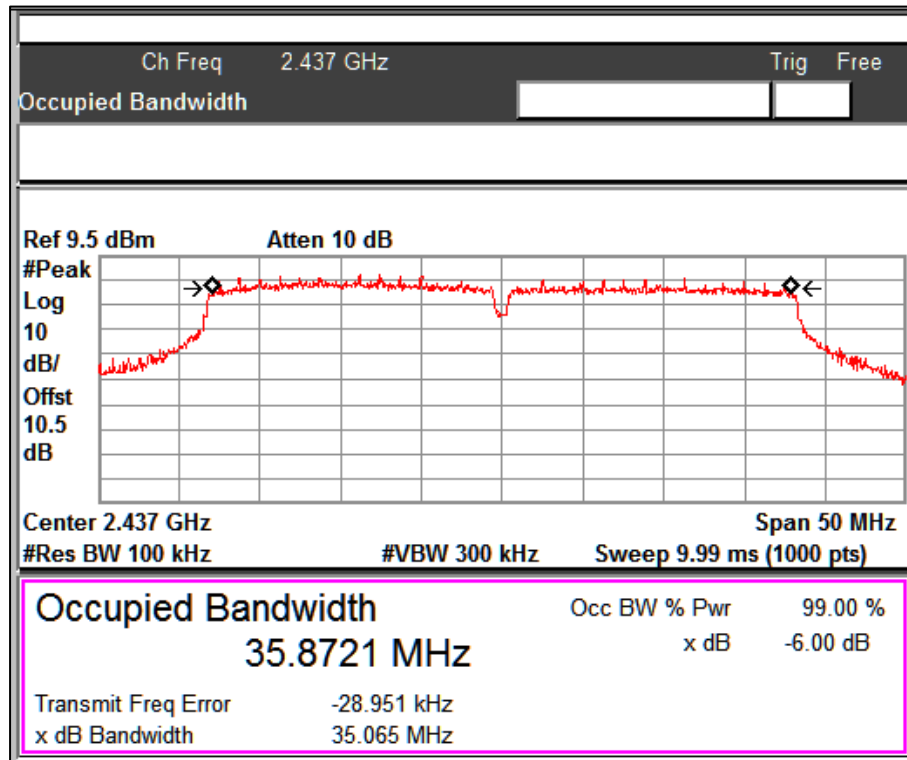
Data rate (Mbps)	Channel Frequency (MHz)	6 dB Bandwidth (MHz)	99% OBW (MHz)	Minimum Limit (MHz)
MCS0	2422	32.53	35.59	0.5
	2437	35.06	36.36	0.5
	2452	30.09	35.88	0.5
MCS7	2422	35.74	36.69	0.5
	2437	36.39	37.63	0.5
	2452	36.16	37.08	0.5

Graphs for 6 dB bandwidth measurement



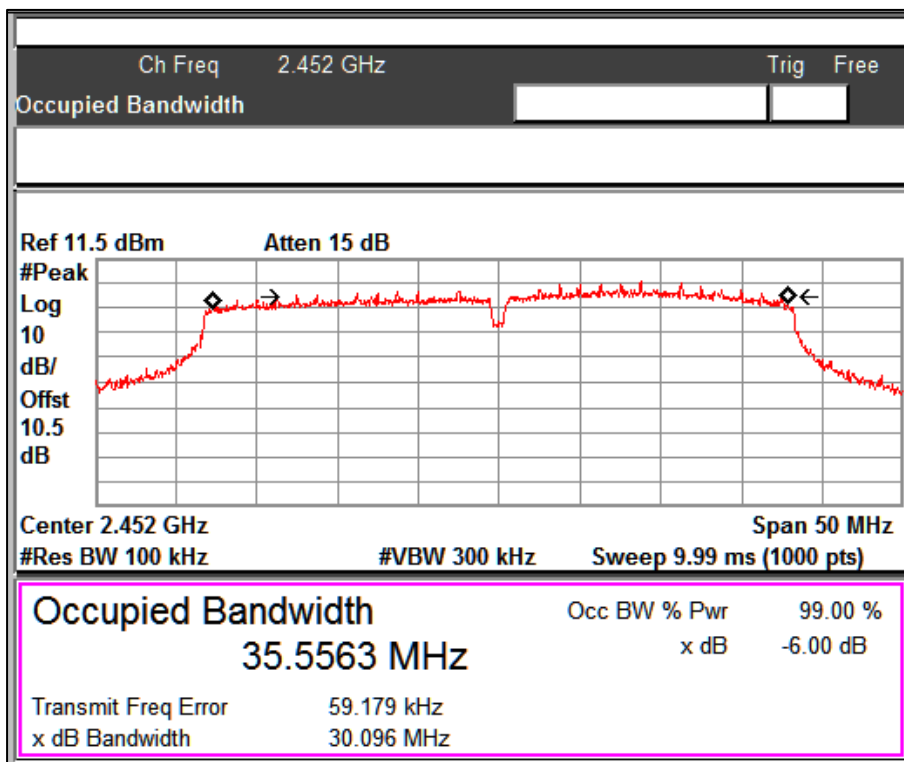
Data Rate: MCS0

Channel Frequency: 2422MHz



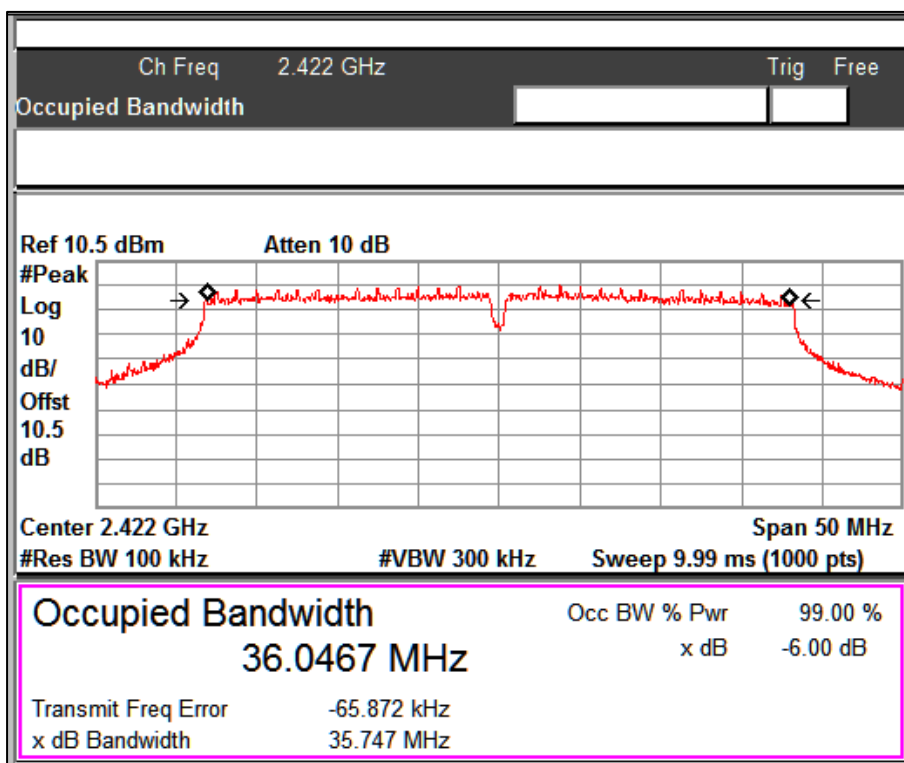
Data Rate: MCS0

Channel Frequency: 2437MHz



Data Rate: MCS0

Channel Frequency: 2452MHz



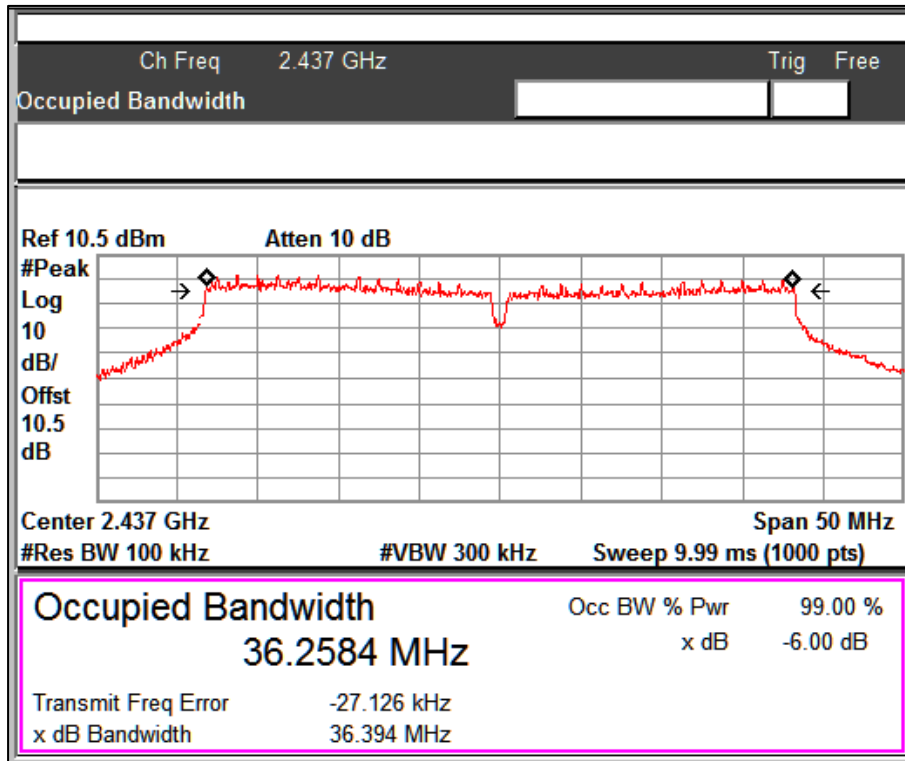
Data Rate: MCS7

Channel Frequency: 2422MHz

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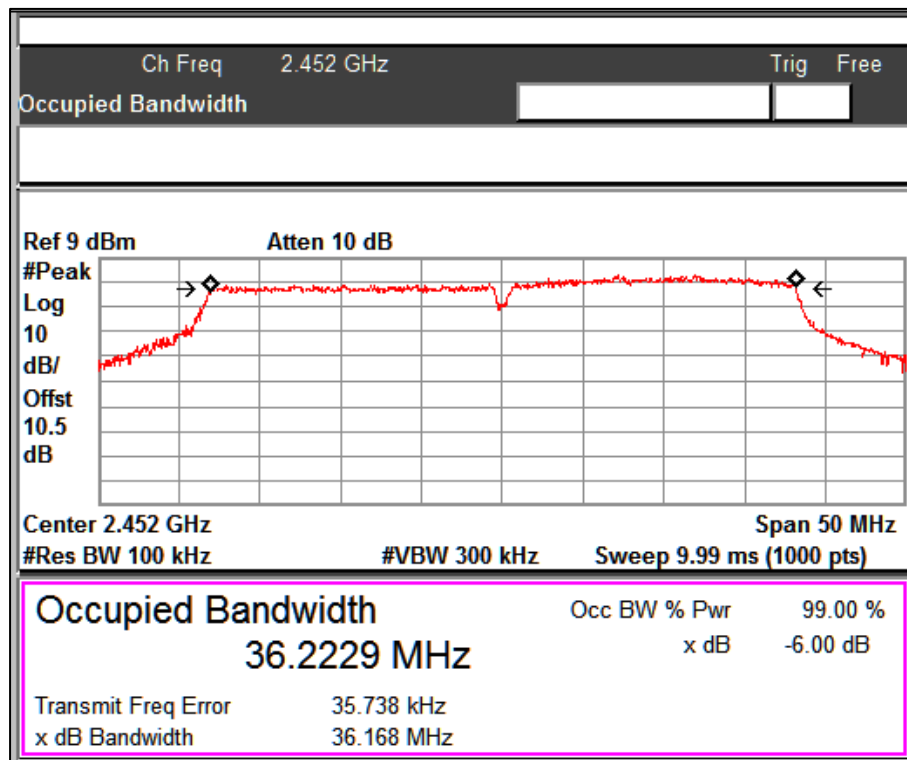
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Data Rate: MCS7

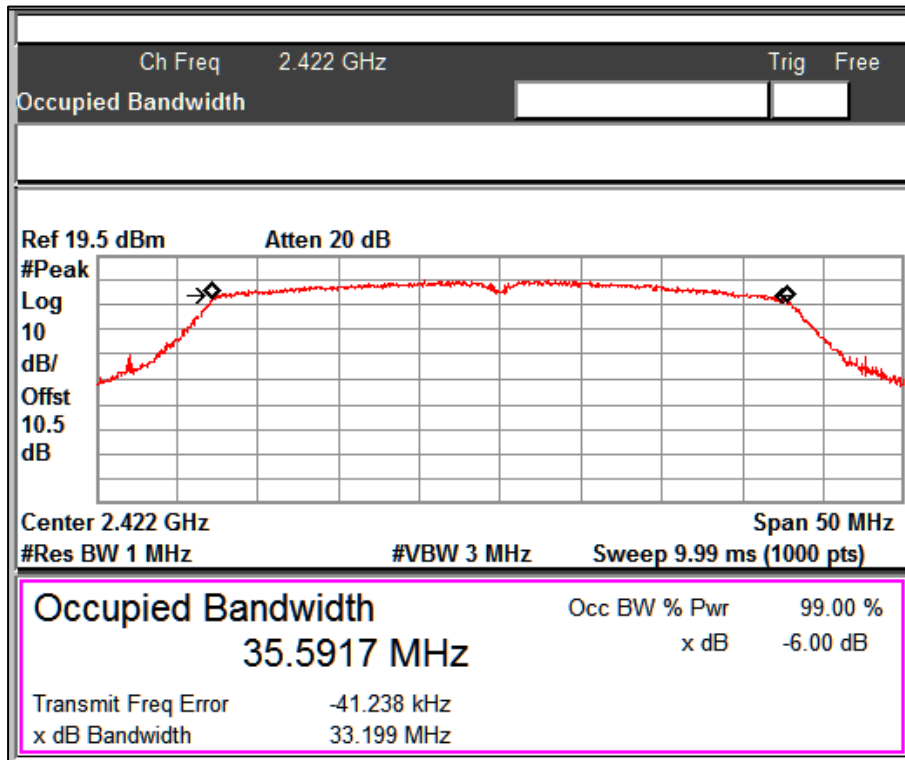
Channel Frequency: 2437MHz



Data Rate: MCS7

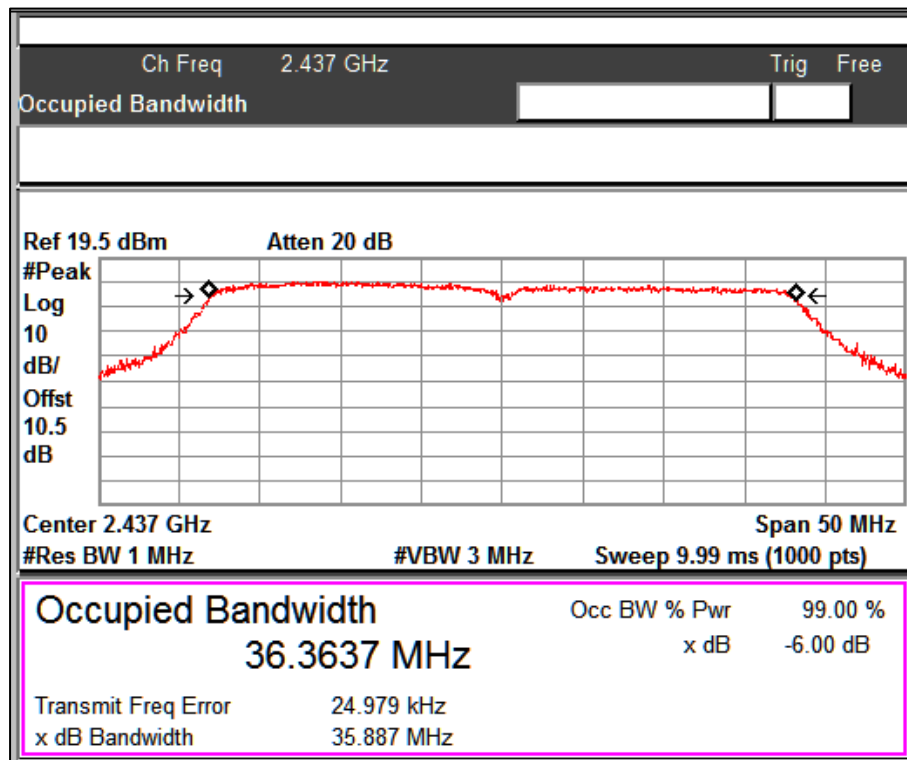
Channel Frequency: 2452MHz

Graphs for OCW 99% bandwidth measurement



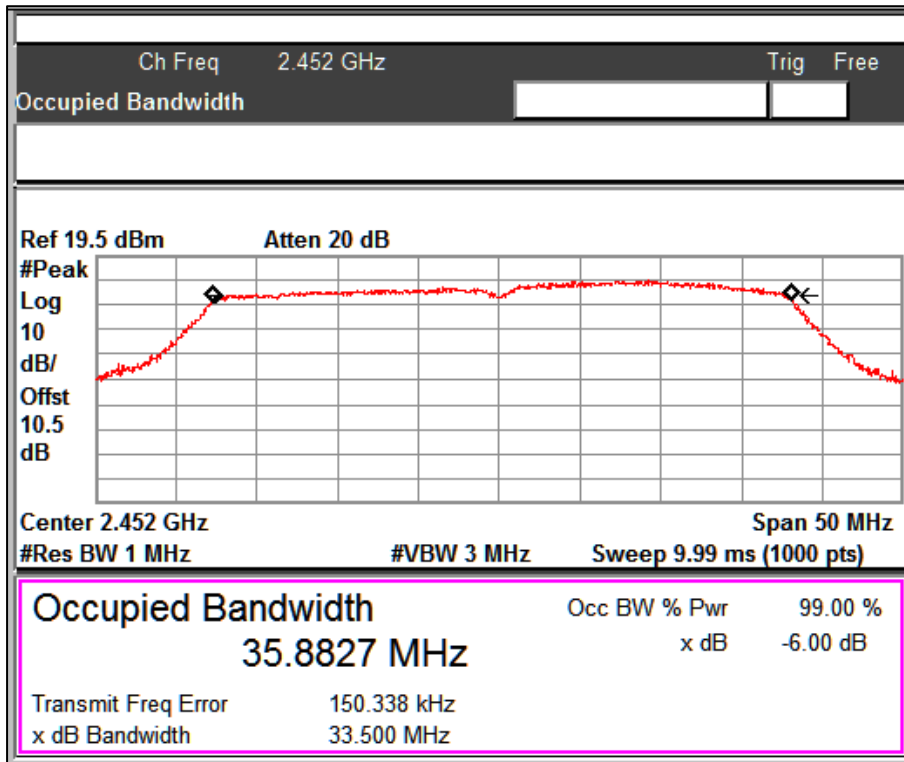
Data Rate: MCS0

Channel Frequency: 2422MHz



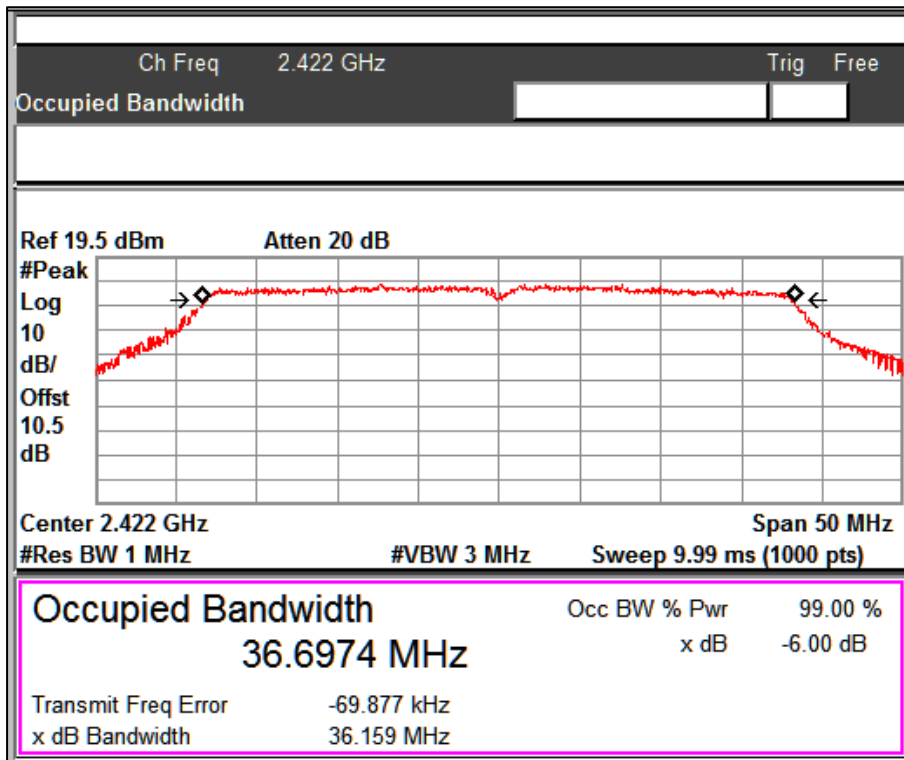
Data Rate: MCS0

Channel Frequency: 2437MHz



Data Rate: MCS0

Channel Frequency: 2452MHz



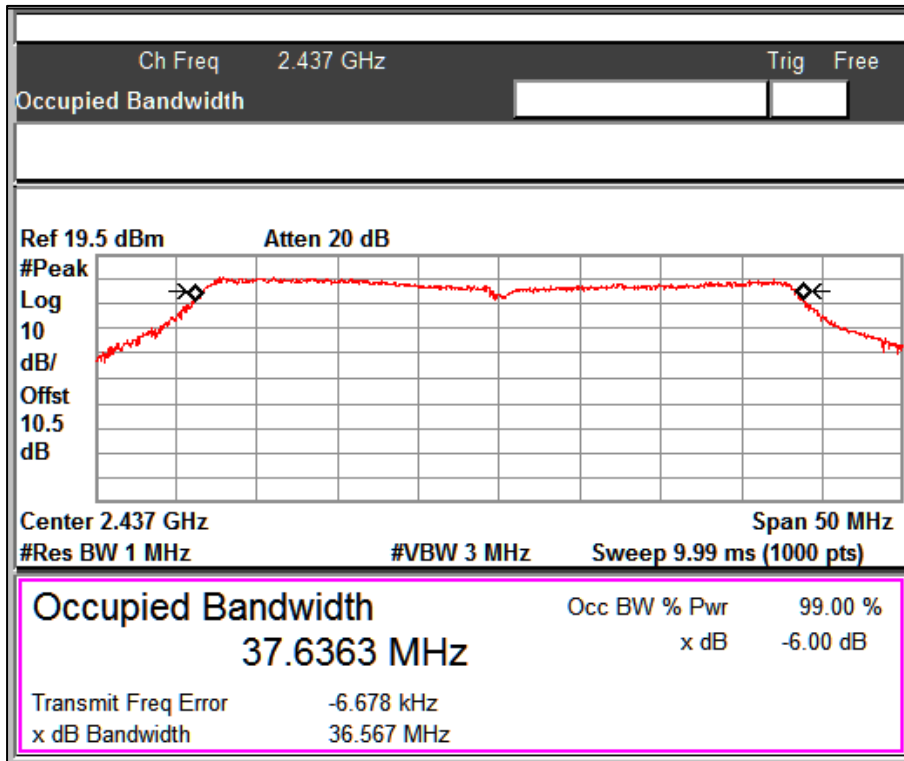
Data Rate: MCS7

Channel Frequency: 2422MHz

Prüfbericht - Nr.:
Test Report No.:

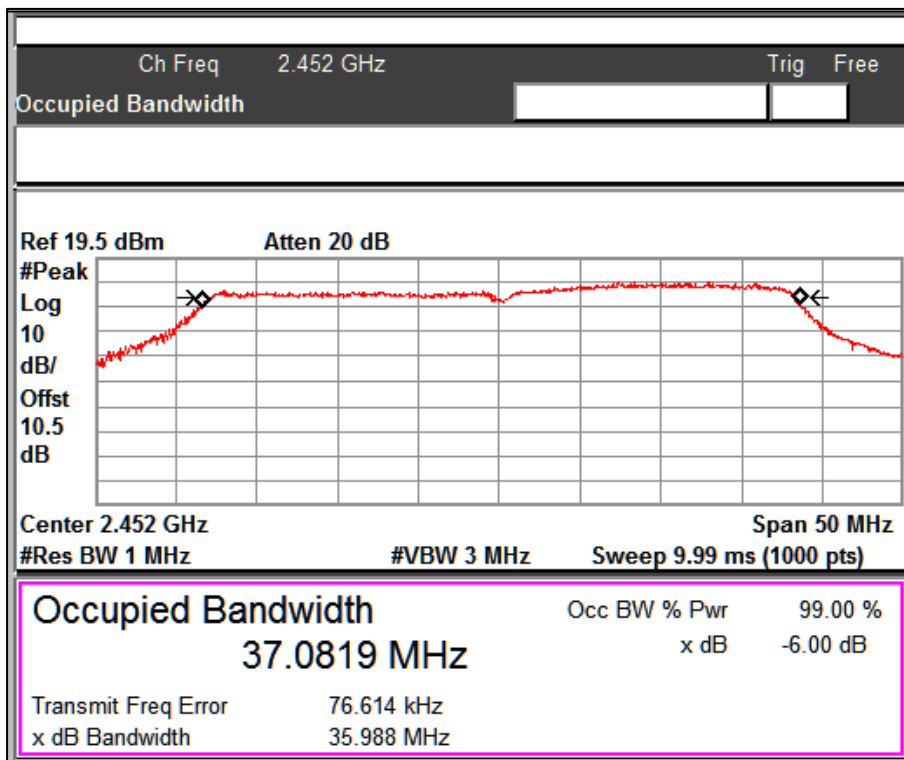
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Data Rate: MCS7

Channel Frequency: 2437MHz



Data Rate: MCS7

Channel Frequency: 2452MHz

7.4 Emissions in non-restricted frequency bands and Conducted Spurious Emission

Result

Pass

Test Specification FCC part 15 Subpart C 15.247 (d) / RSS 247 Issue 2, Section 5.5

Test Method Subclause 11.11 of ANSI C63.10

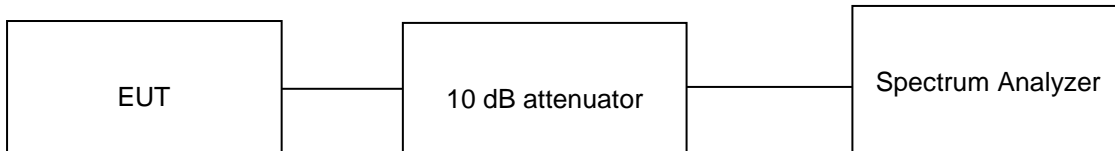
Measurement Bandwidth 100 kHz

Detector Peak

Port of testing Antenna port

Requirement In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits

Test Method:



Test Condition

Normal Test Condition:

Temperature (Norm) = + 25 °C

Voltage = 3.3VDC

Relative humidity: 62%

KDB Guidelines applied:

Measurements were made as per section 8.5 in KDB 558074 D01 15.247 Measurement Guidance v05r02.

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Test results:

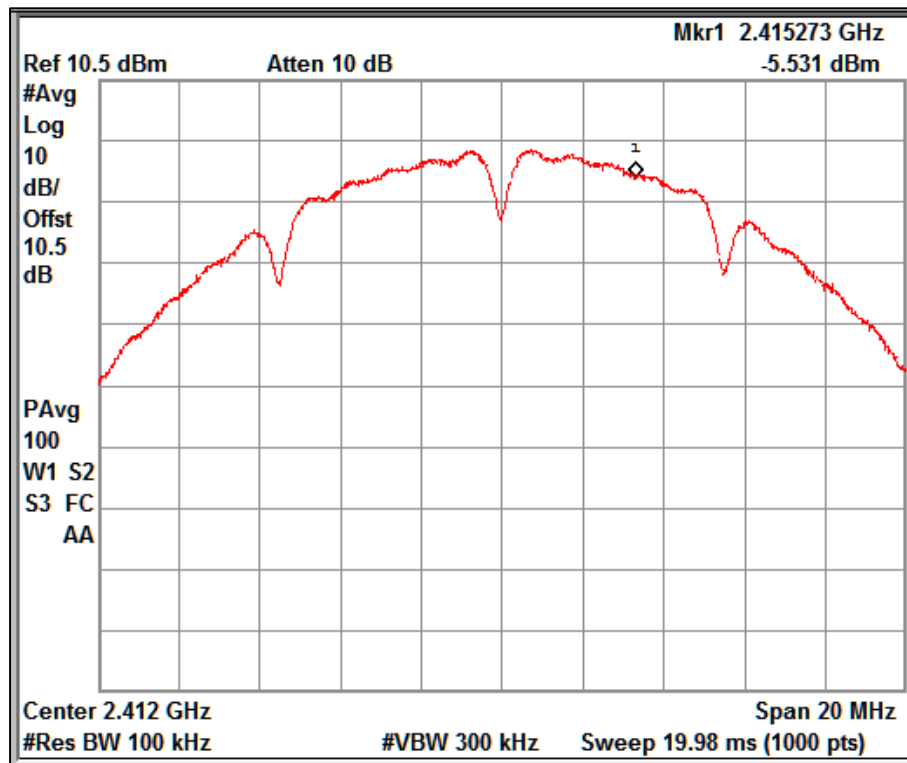
Note:

1. All the losses are included during measurement and final values are mentioned in the test report.
2. Final Value (dBm) = Measured Value (dBm) + Attenuator factor (10dB) + Cable loss (0.5dB)
3. This product do not support additional beamforming gain / directional gain, it uses signal antenna and hence directional gain of the single antenna is 4.27 dBi

7.4.1 Band edge and reference plots

Modulation: 802.11b

Data Rate (Mbps)	Channel Frequency (MHz)	Reference Value (B) (dBm)	Band edge Frequency (MHz)	Value at Band edge (A) (dBm)	A-B (dBc)	Minimum Limit (dBc)
1	2412	2390	-61.73	-5.53	-56.2	-30
	2462	2483.5	-58.62	1.83	-60.45	-30
11	2412	2390	-65.11	-1.23	-63.88	-30
	2462	2483.5	-61.52	0.65	-62.17	-30



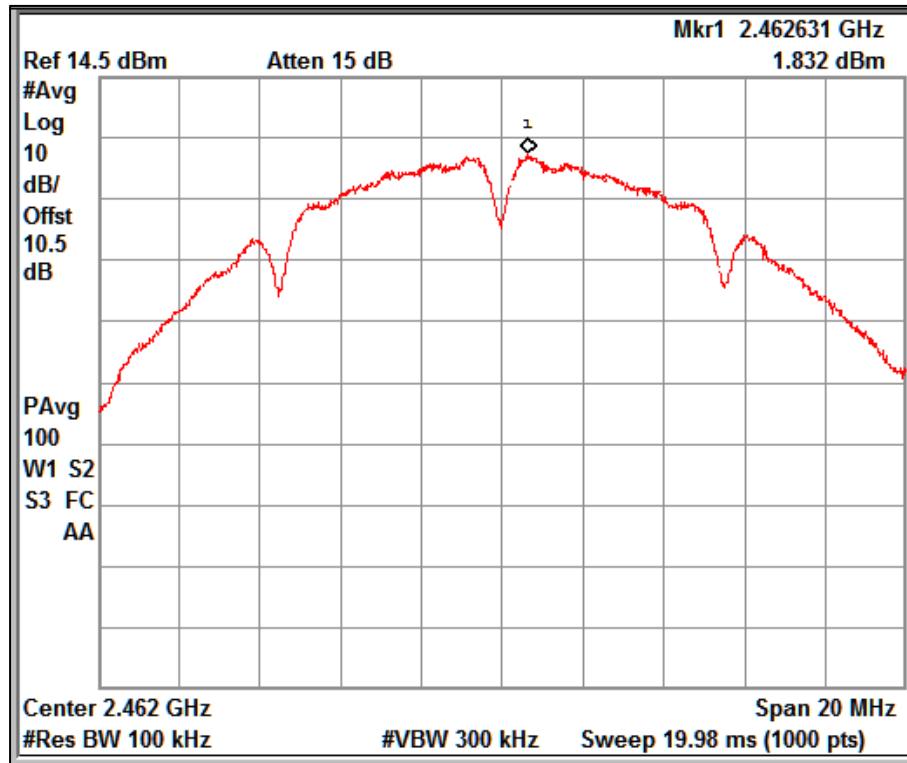
Data Rate: 1Mbps

Reference plot for 2412MHz

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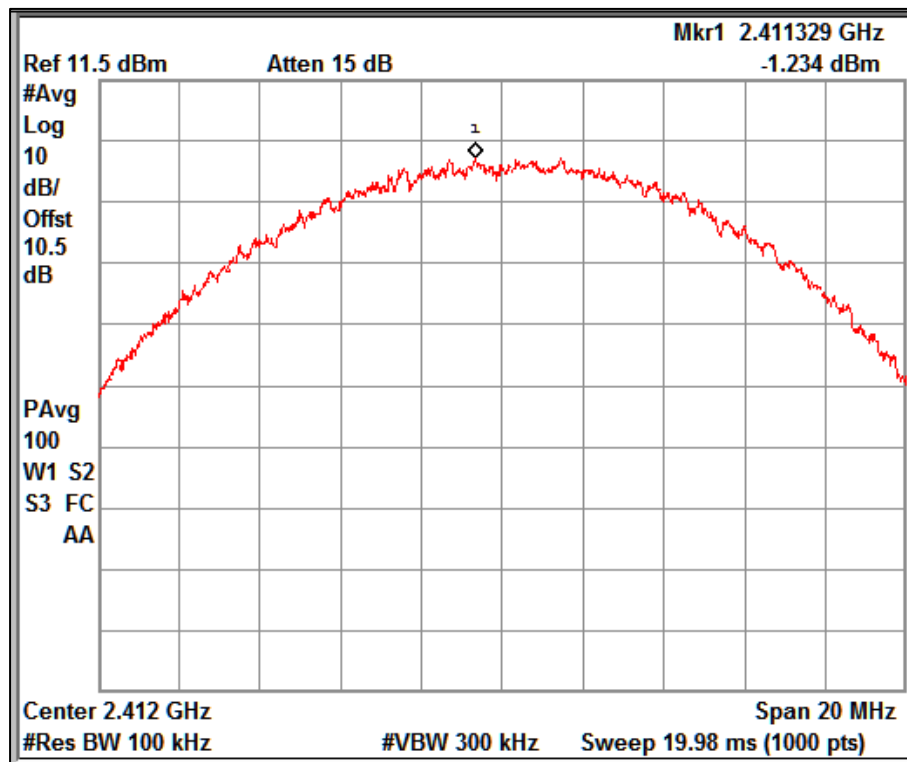
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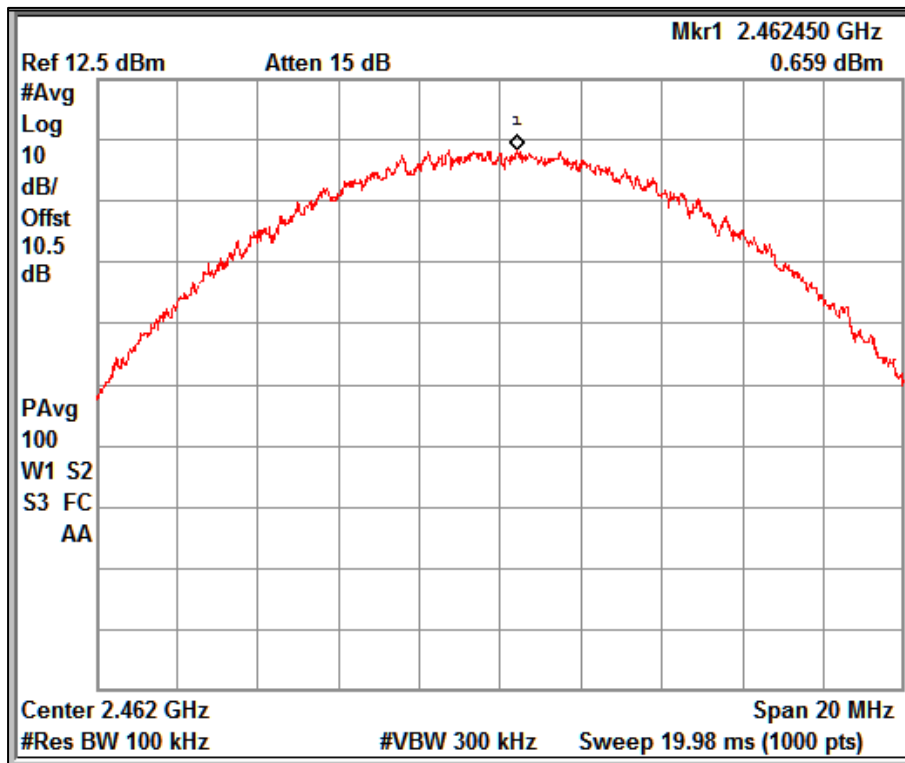
Data Rate: 1Mbps

Reference plot for 2462MHz



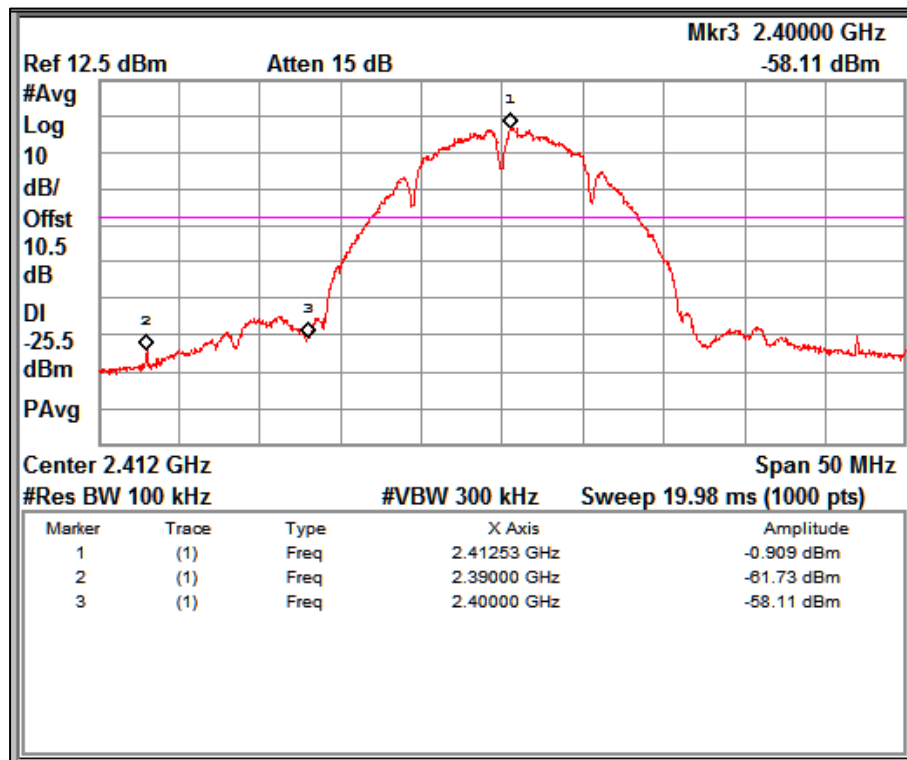
Data Rate: 11Mbps

Reference plot for 2412MHz



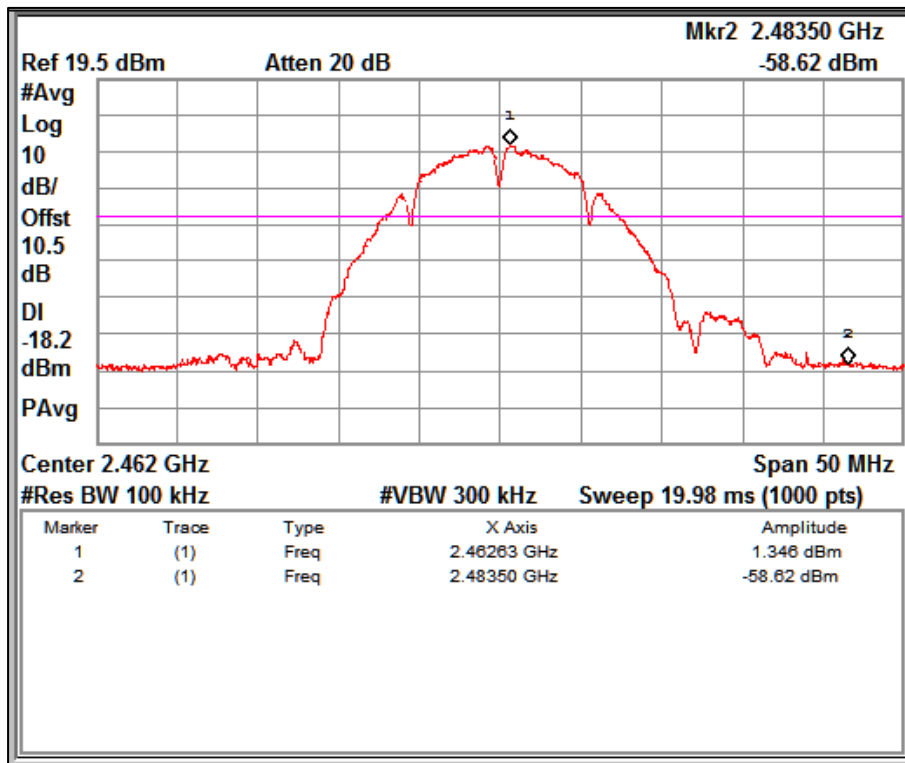
Data Rate: 11Mbps

Reference plot for 2462MHz



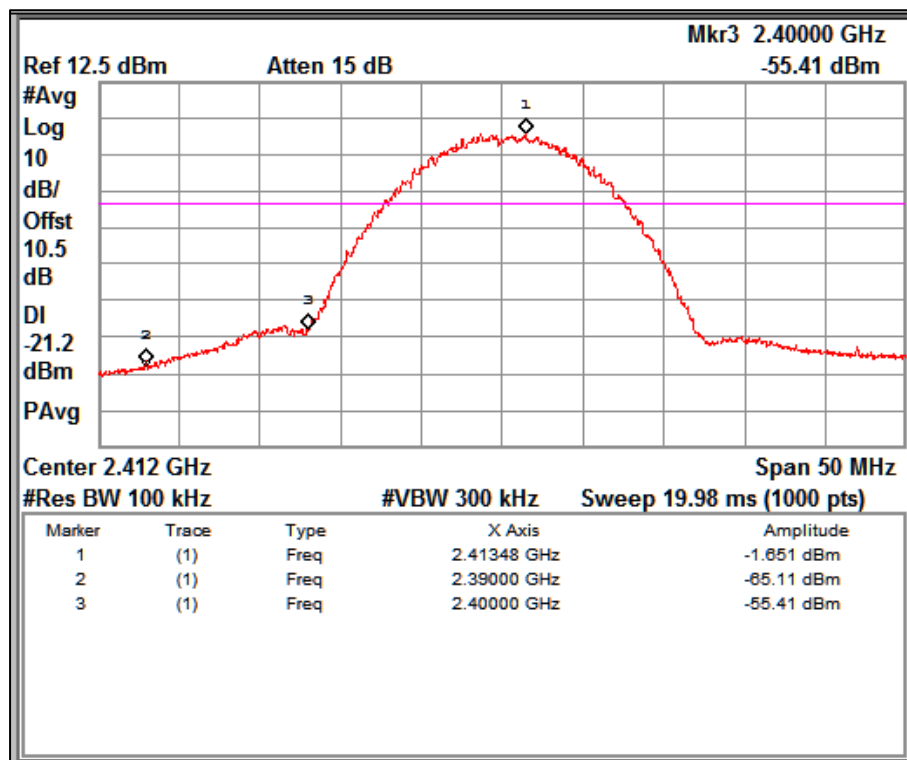
Data Rate: 1Mbps

Band edge Channel Frequency 2412MHz



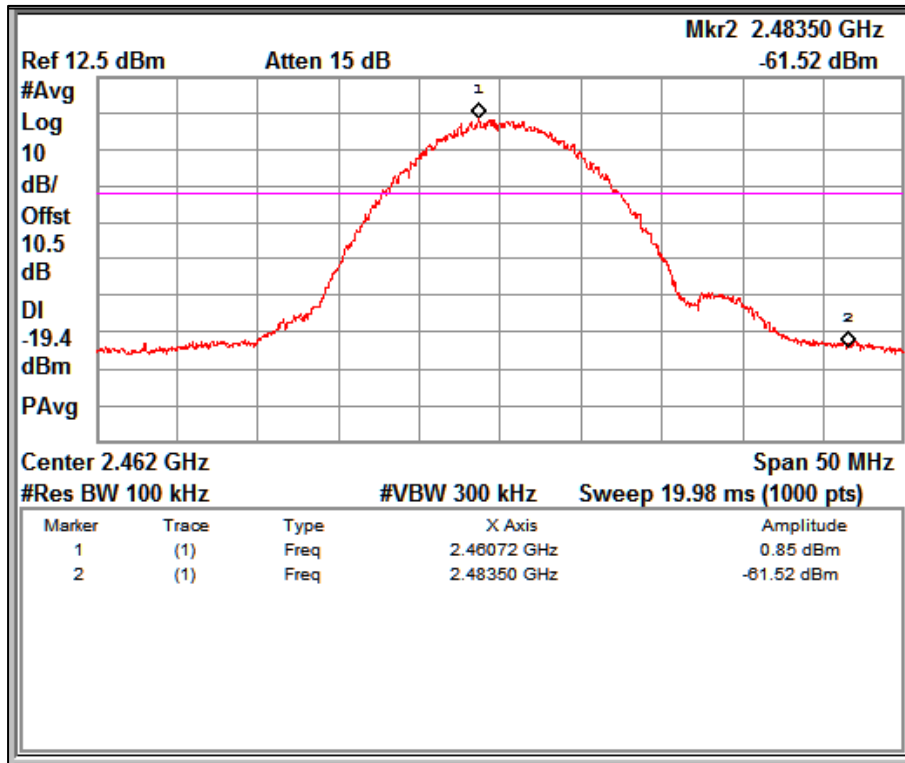
Data Rate: 1 Mbps

Band edge Channel Frequency 2462MHz



Data Rate: 11Mbps

Band edge Channel Frequency 2412MHz

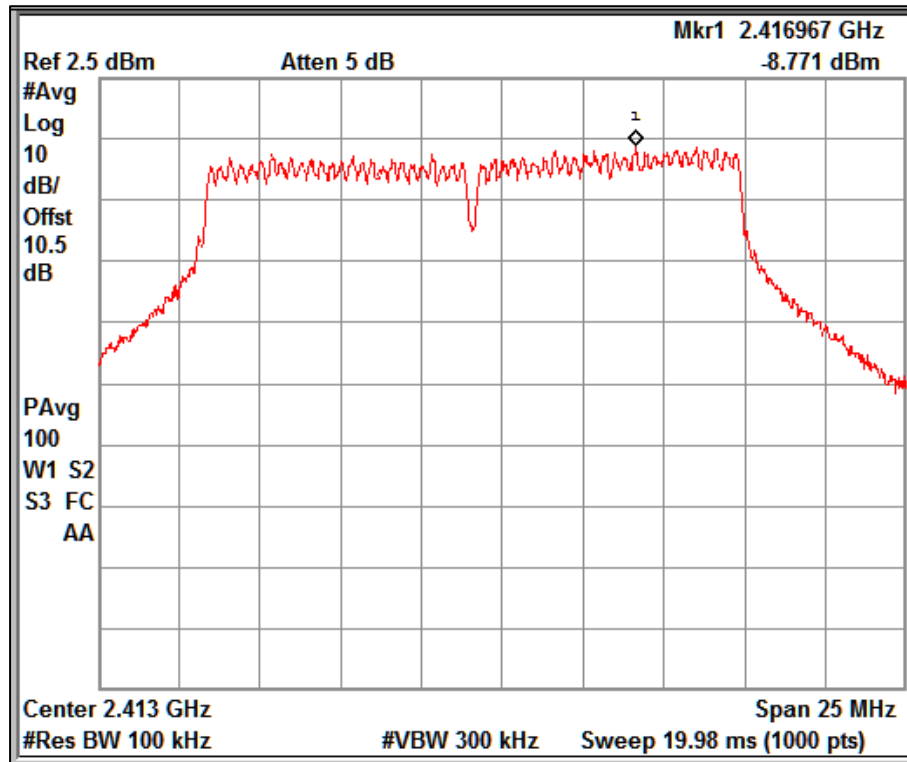


Data Rate: 11Mbps

Band edge Channel Frequency 2462MHz

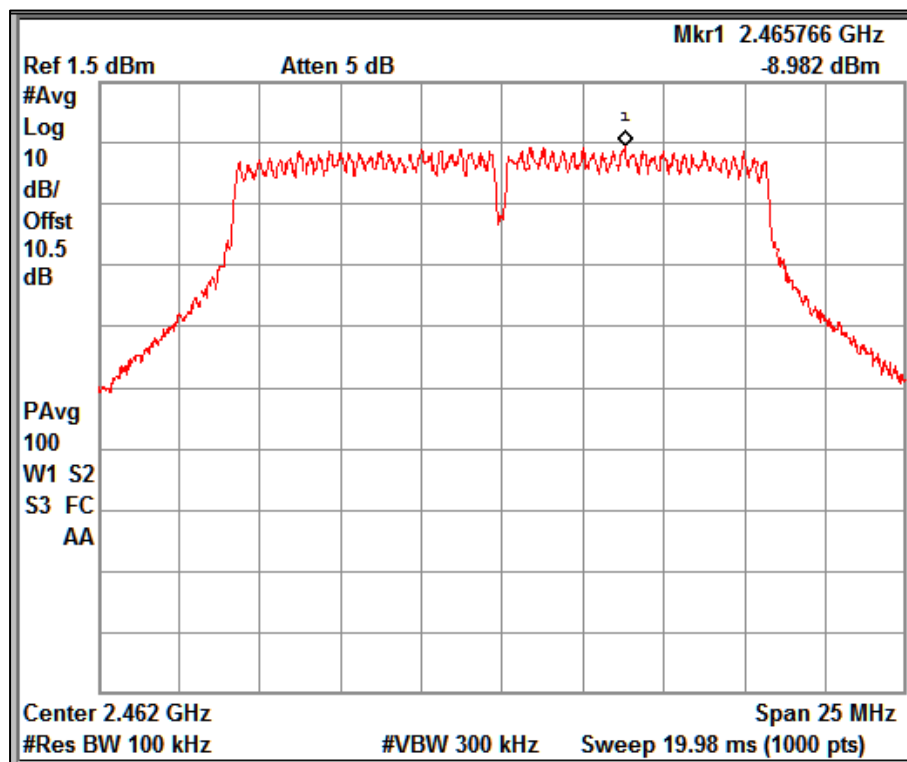
Modulation: 802.11g

Data Rate (Mbps)	Channel Frequency (MHz)	Reference Value (B) (dBm)	Band edge Frequency (MHz)	Value at Band edge (A) (dBm)	A-B (dBc)	Minimum Limit (dBc)
6	2412	2390	-70.43	-8.08	-62.35	-30
	2462	2483.5	-63.14	-7.35	-55.79	-30
54	2412	2390	-70.00	-8.77	-61.23	-30
	2462	2483.5	-57.86	-8.98	-48.88	-30



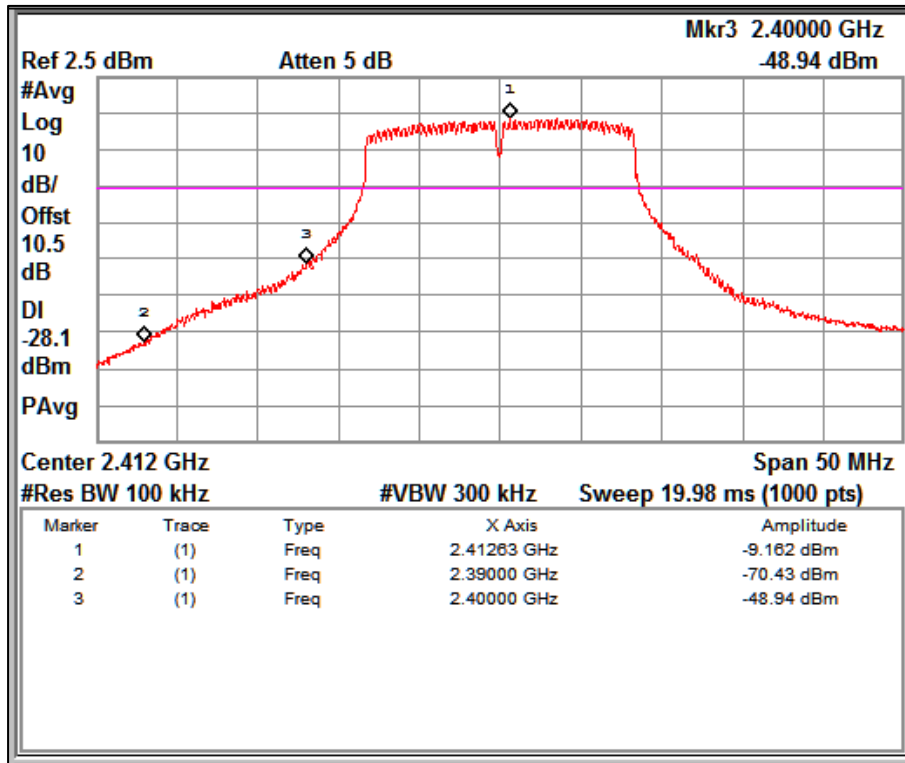
Data Rate: 54 Mbps

Reference plot for 2412MHz



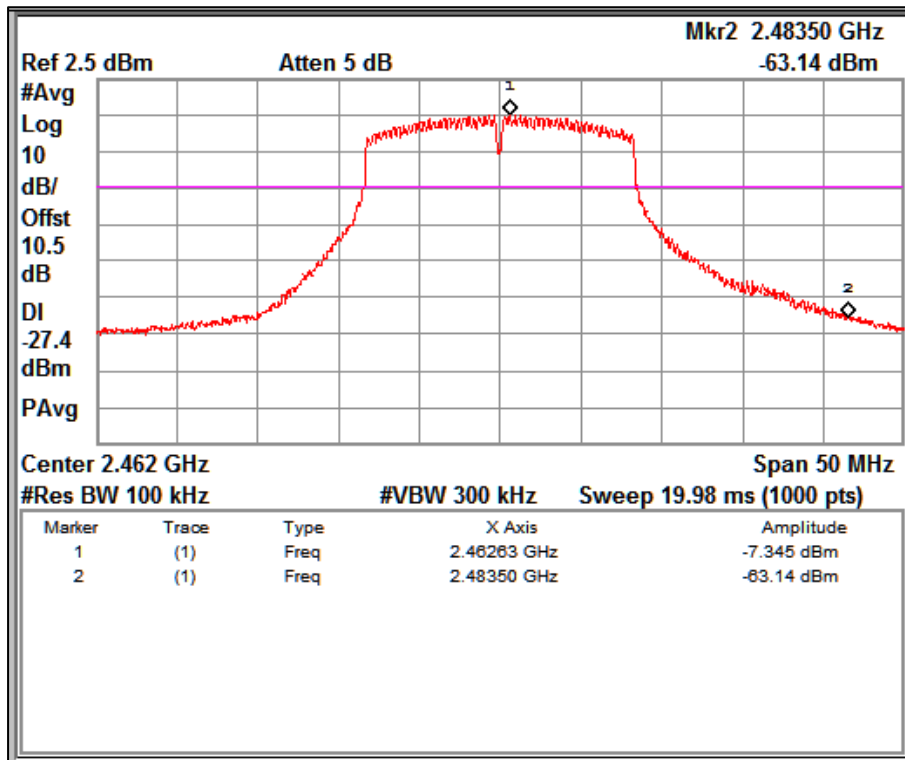
Data Rate: 54 Mbps

Reference plot for 2462MHz



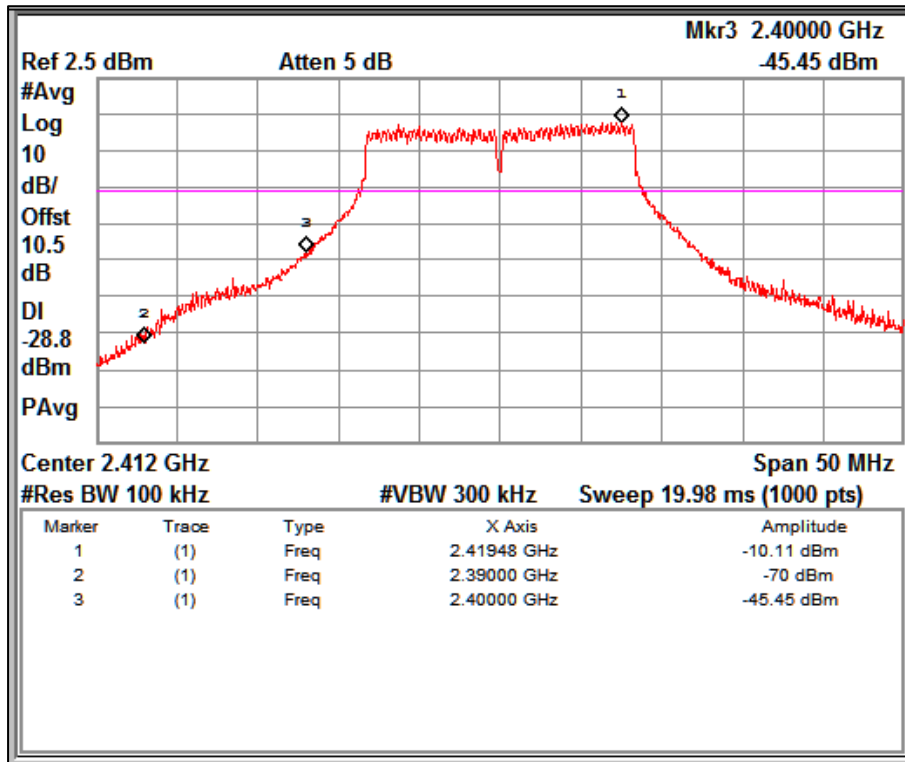
Data Rate: 6 Mbps

Band edge Channel Frequency 2412MHz



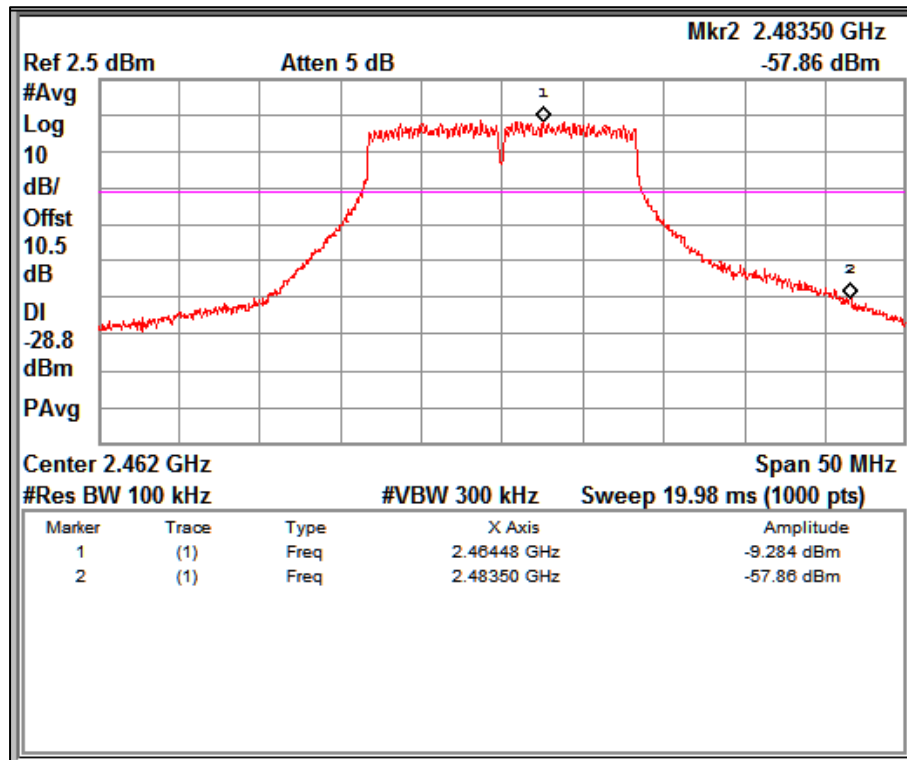
Data Rate: 6 Mbps

Band edge Channel Frequency 2462MHz



Data Rate: 54 Mbps

Band edge Channel Frequency 2412MHz



Data Rate: 54 Mbps

Band edge Channel Frequency 2462MHz

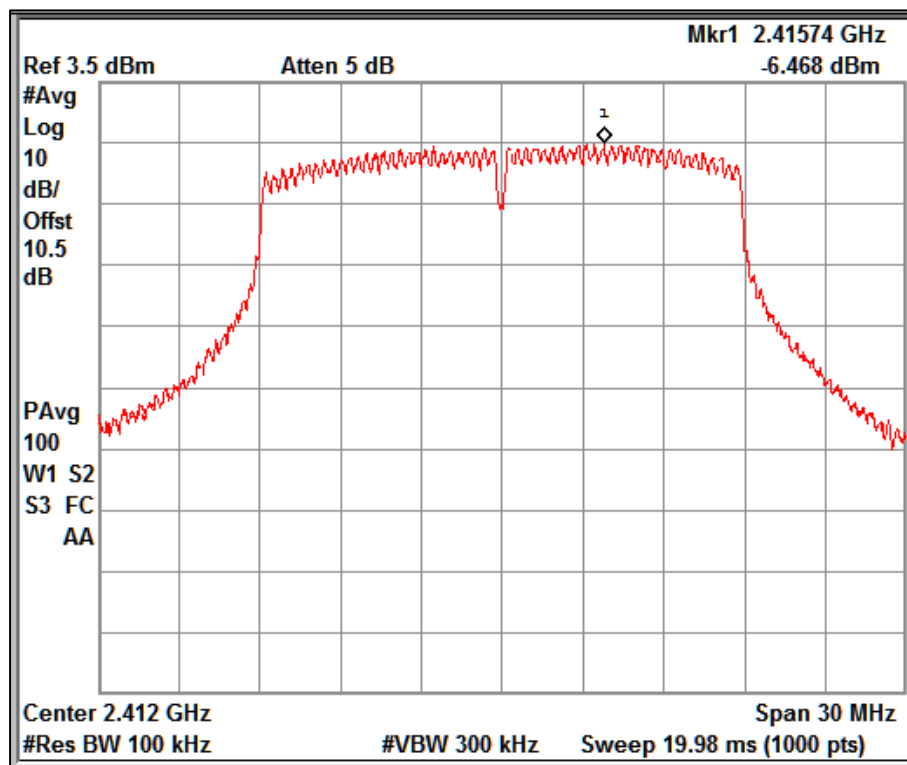
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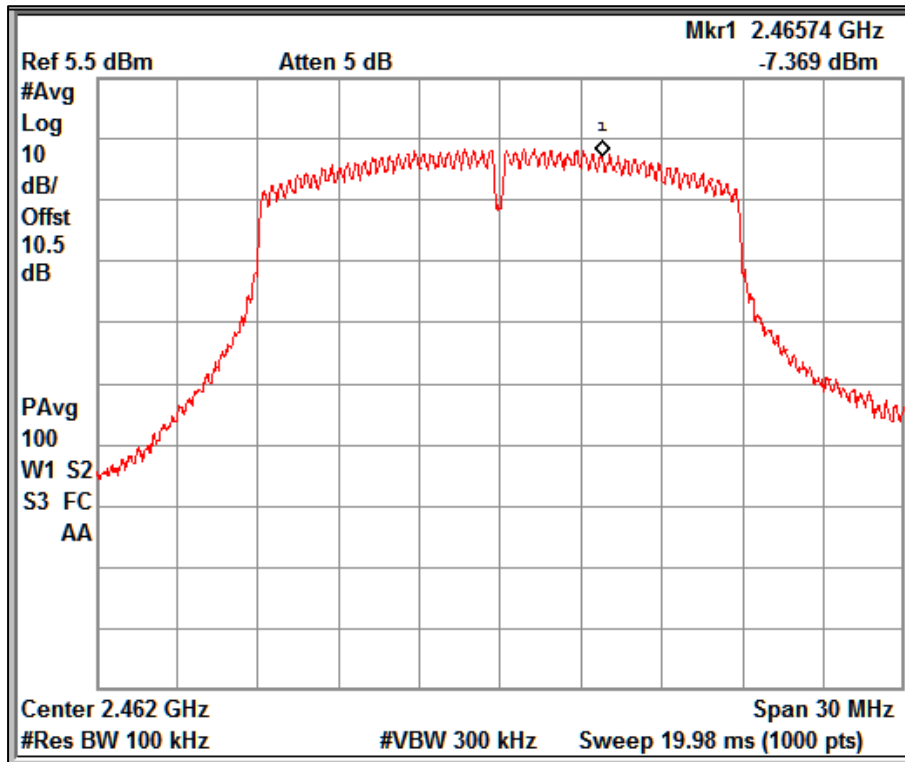
Modulation: 802.11n_HT20

Data Rate (Mbps)	Channel Frequency (MHz)	Reference Value (B) (dBm)	Band edge Frequency (MHz)	Value at Band edge (A) (dBm)	A-B (dBc)	Minimum Limit (dBc)
MCS0	2412	2390	-66.33	-6.46	-59.87	-30
	2462	2483.5	-57.33	-7.36	-49.97	-30
MCS7	2412	2390	-60.89	-6.60	-54.29	-30
	2462	2483.5	-52.03	-8.40	-43.63	-30



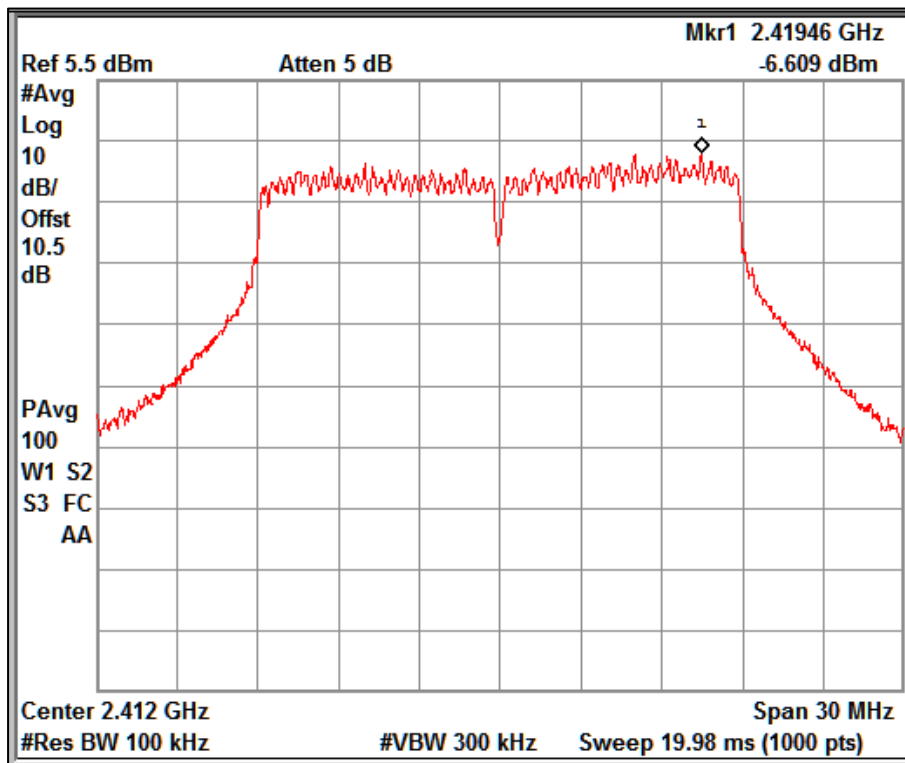
Data Rate: MCS0

Reference plot for 2412MHz



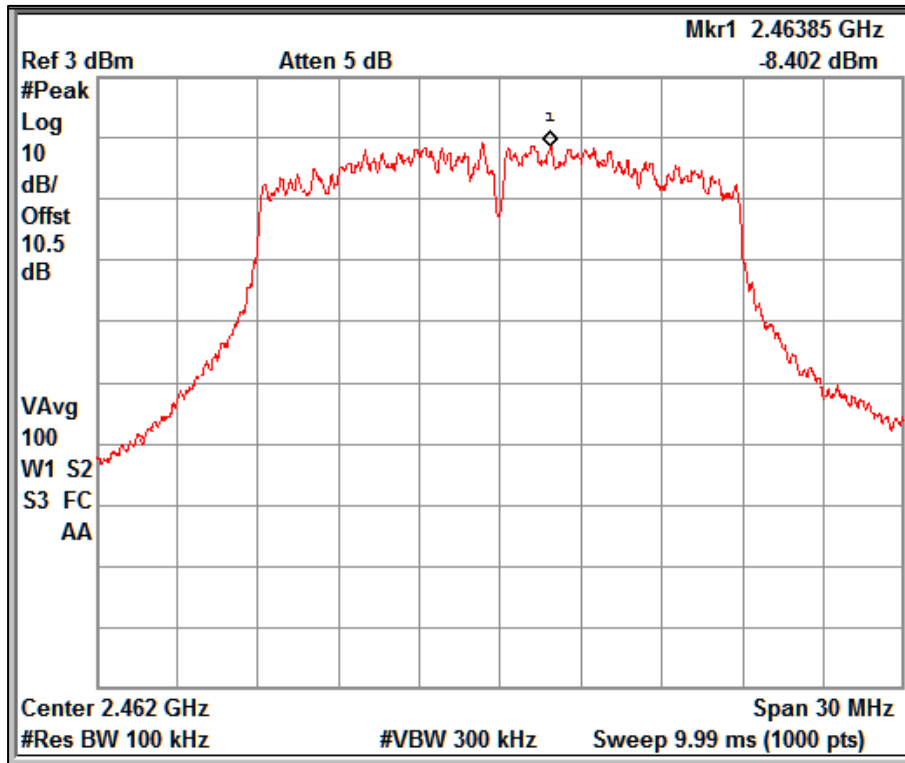
Data Rate: MCS0

Reference plot for 2462MHz



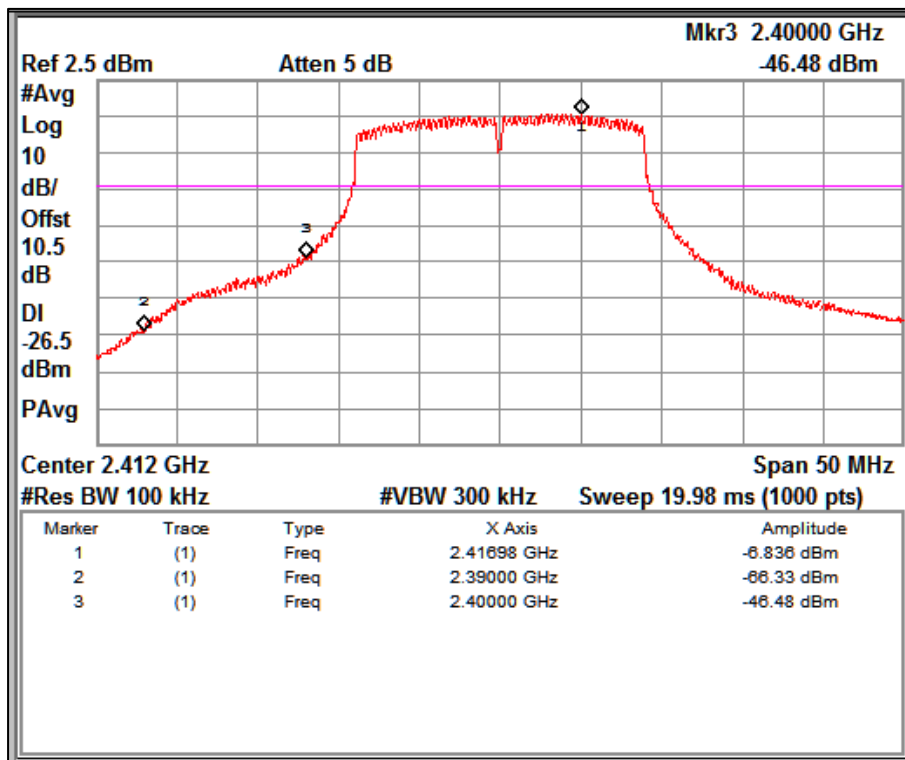
Data Rate: MCS7

Reference plot for 2412MHz



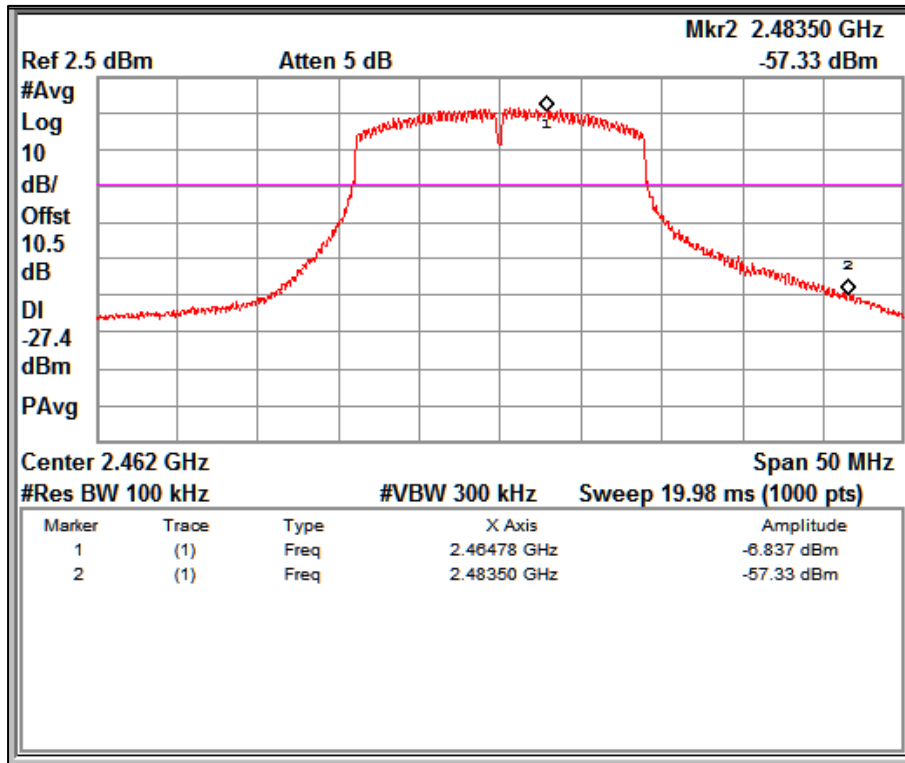
Data Rate: MCS7

Reference plot for 2462MHz



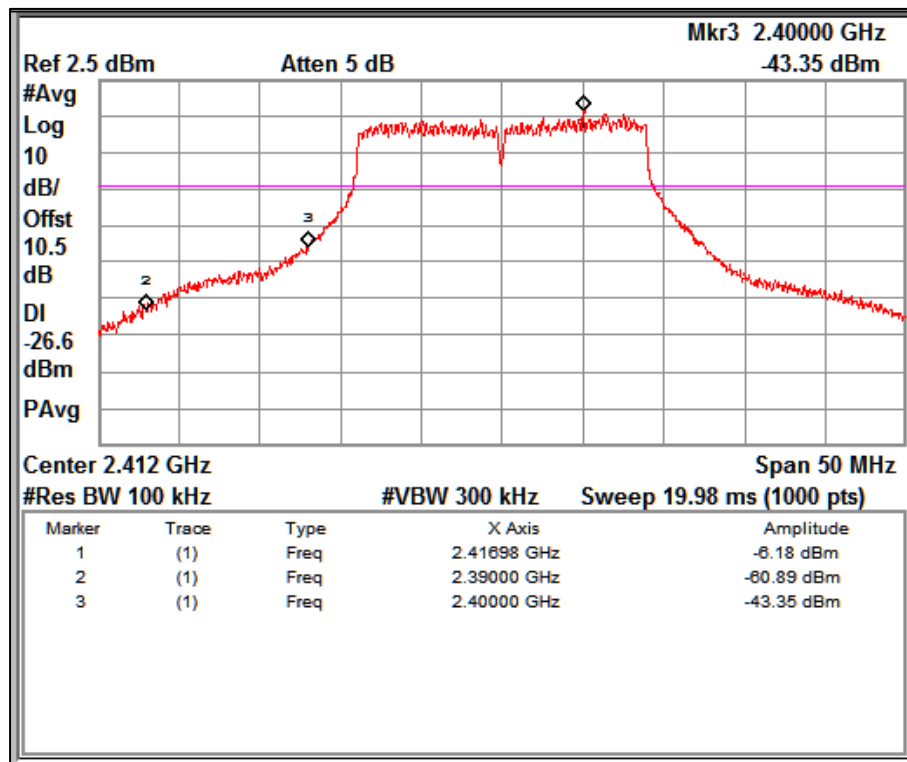
Data Rate: MCS0

Band edge Channel Frequency 2412MHz



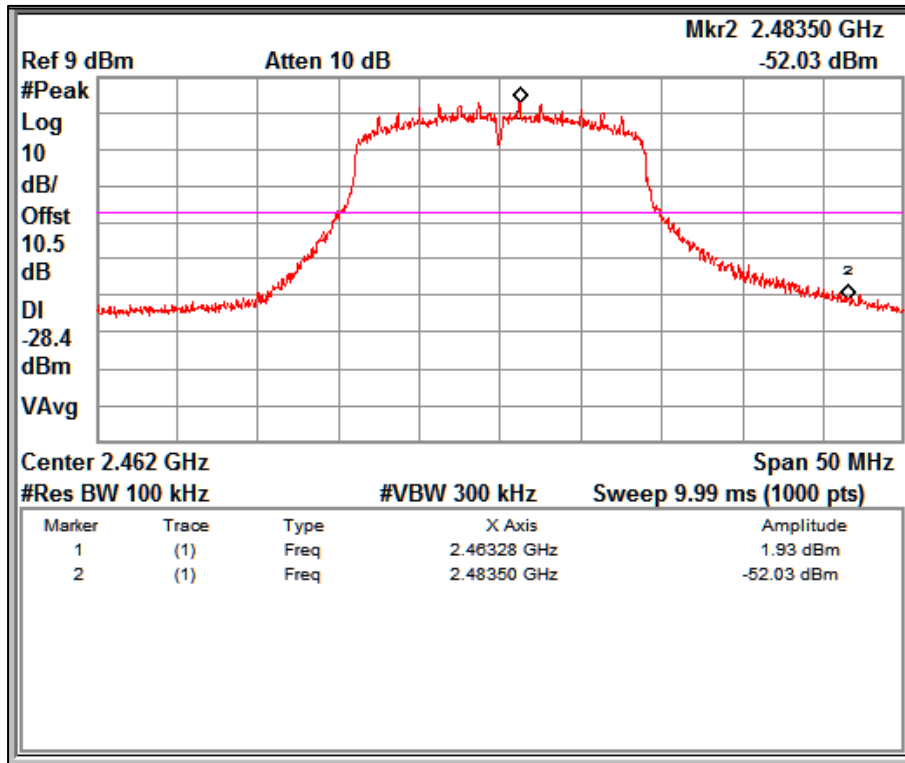
Data Rate: MCS0

Band edge Channel Frequency 2462MHz



Data Rate: MCS7

Band edge Channel Frequency 2412MHz

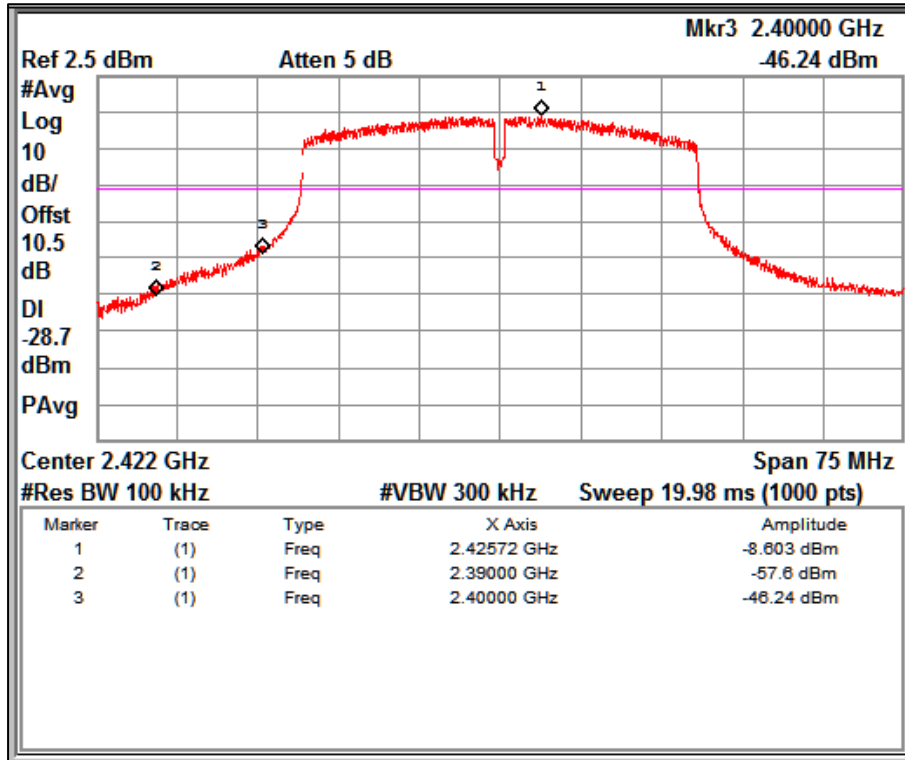


Data Rate: MCS7

Band edge Channel Frequency 2462MHz

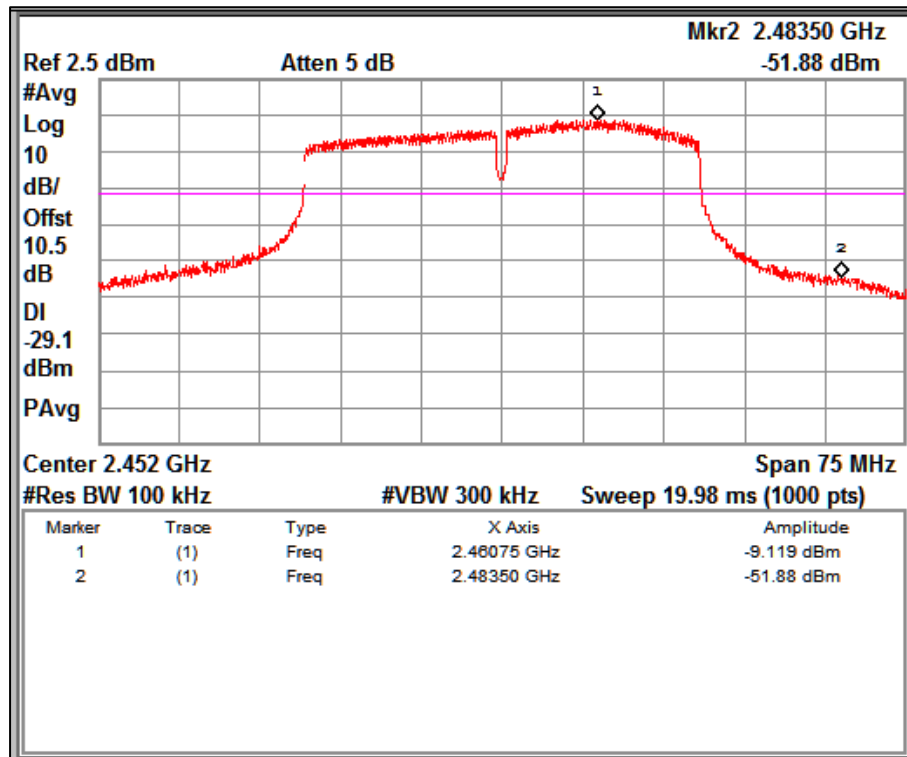
Modulation: 802.11n_HT40

Data Rate (Mbps)	Channel Frequency (MHz)	Reference Value (B) (dBm)	Band edge Frequency (MHz)	Value at Band edge (A) (dBm)	A-B (dBc)	Minimum Limit (dBc)
MCS0	2422	2390	-57.60	-8.71	-48.89	-30
	2452	2483.5	-51.88	-9.12	-42.76	-30
MCS7	2422	2390	-52.36	-14.35	-38.01	-30
	2452	2483.5	-56.41	-11.48	-44.93	-30



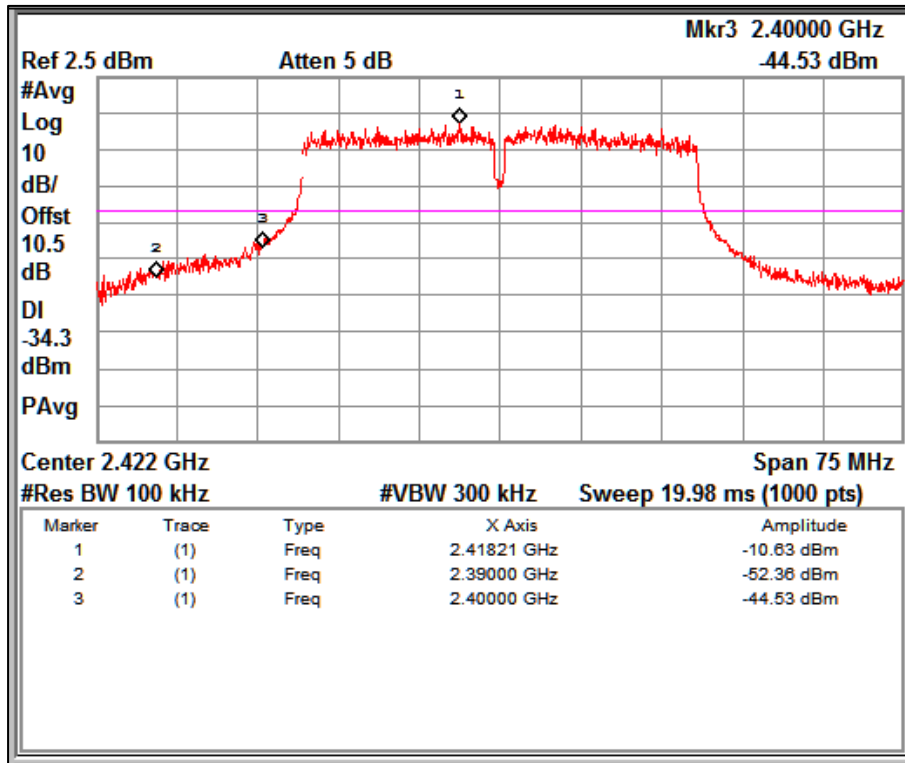
Data Rate: MCS0

Channel Frequency 2422MHz



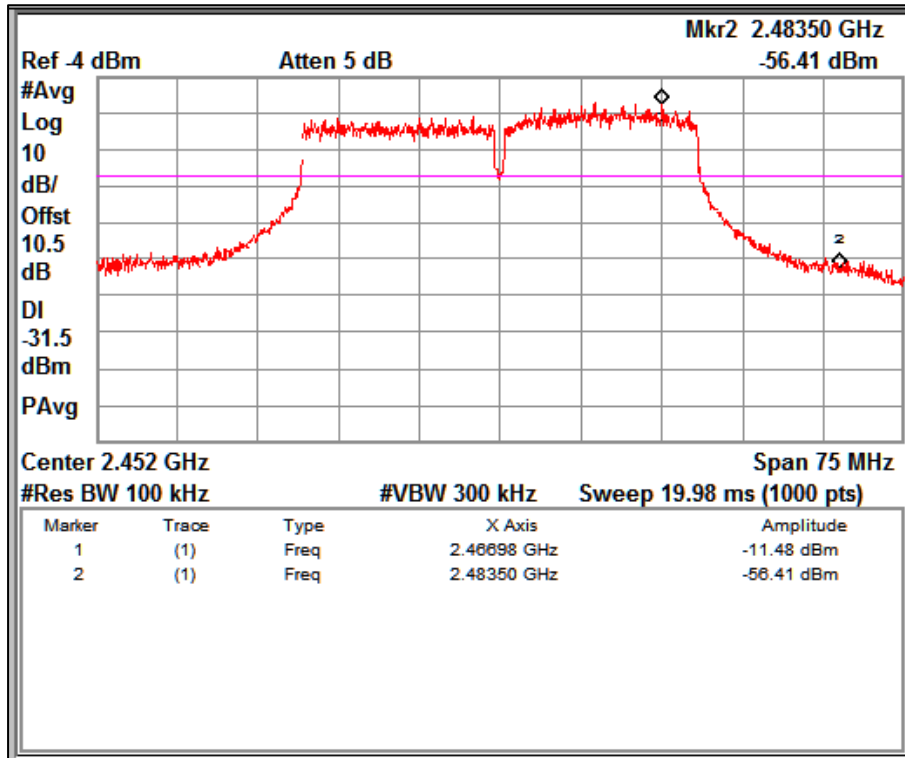
Data Rate: MCS0

Channel Frequency 2452MHz



Data Rate: MCS7

Channel Frequency 2422MHz



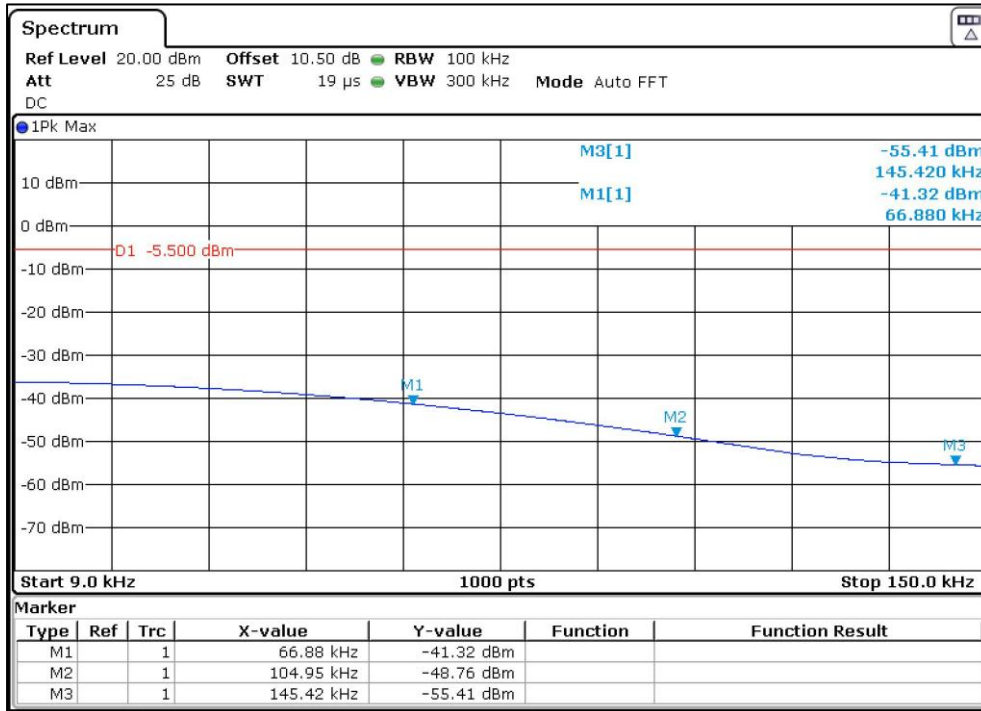
Data Rate: MCS7

Channel Frequency 2452MHz

7.4.2 Out-Of-Band Emissions

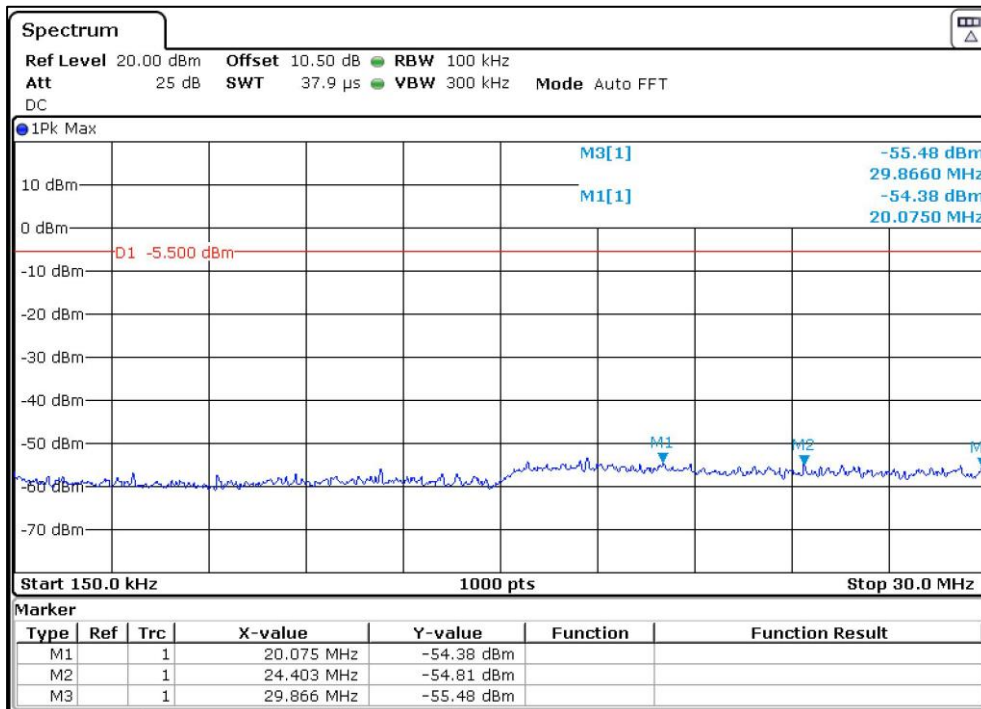
Modulation: 802.11b

Data Rate 1Mbps



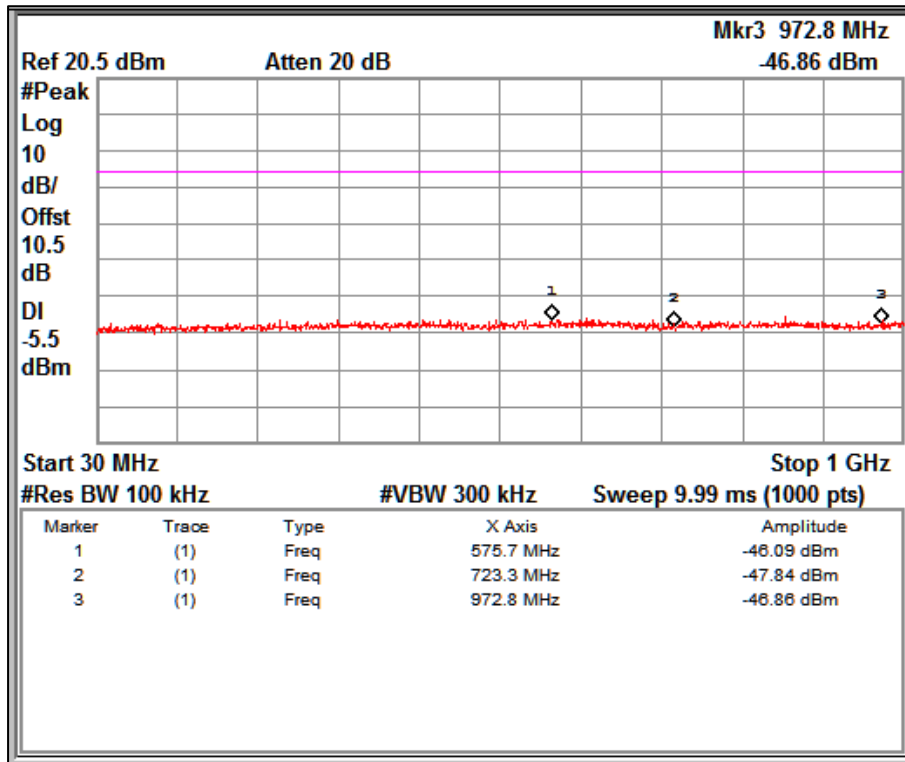
Channel Frequency 2412MHz

Frequency Range 9kHz –150kHz



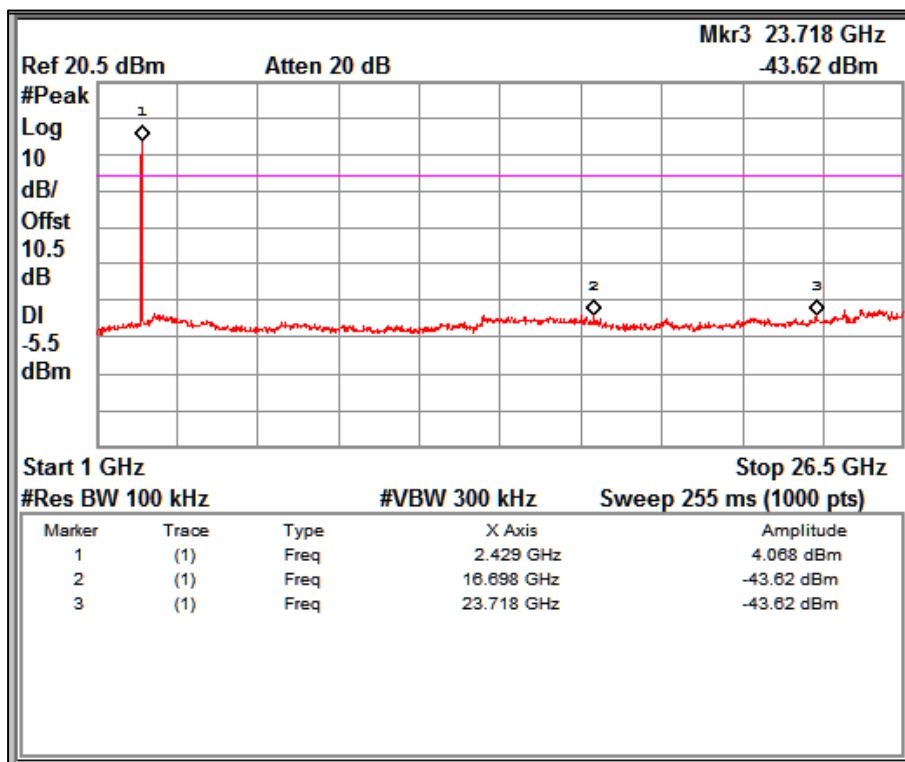
Channel Frequency 2412MHz

Frequency Range 150kHz –30MHz



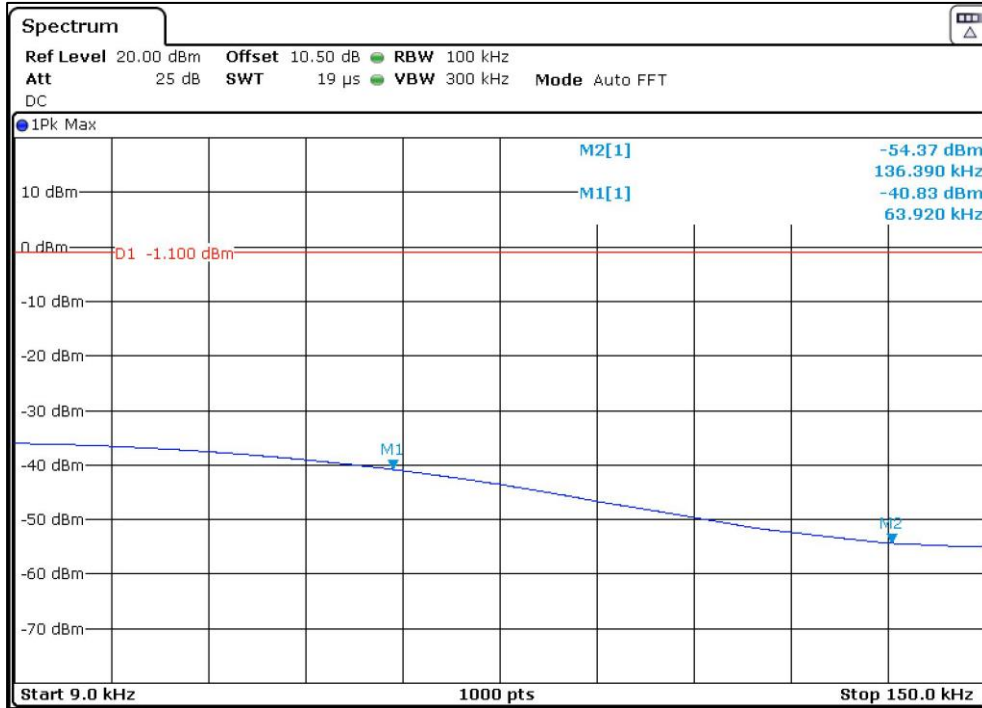
Channel Frequency 2412MHz

Frequency Range 30MHz –1GHz



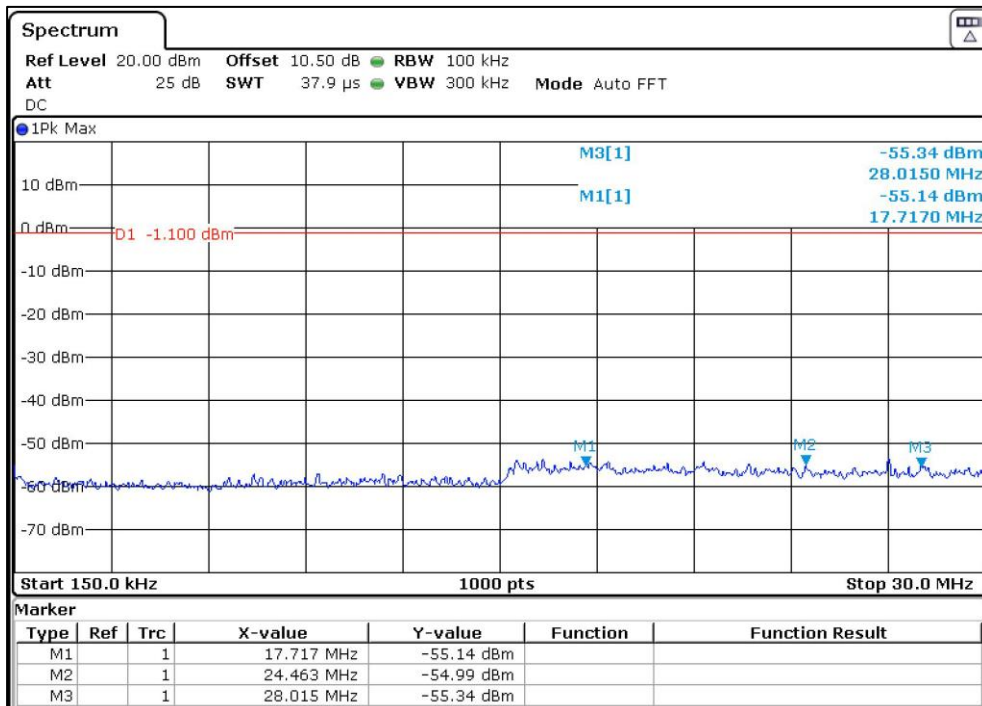
Channel Frequency 2412MHz

Frequency Range 1GHz – 26.5GHz



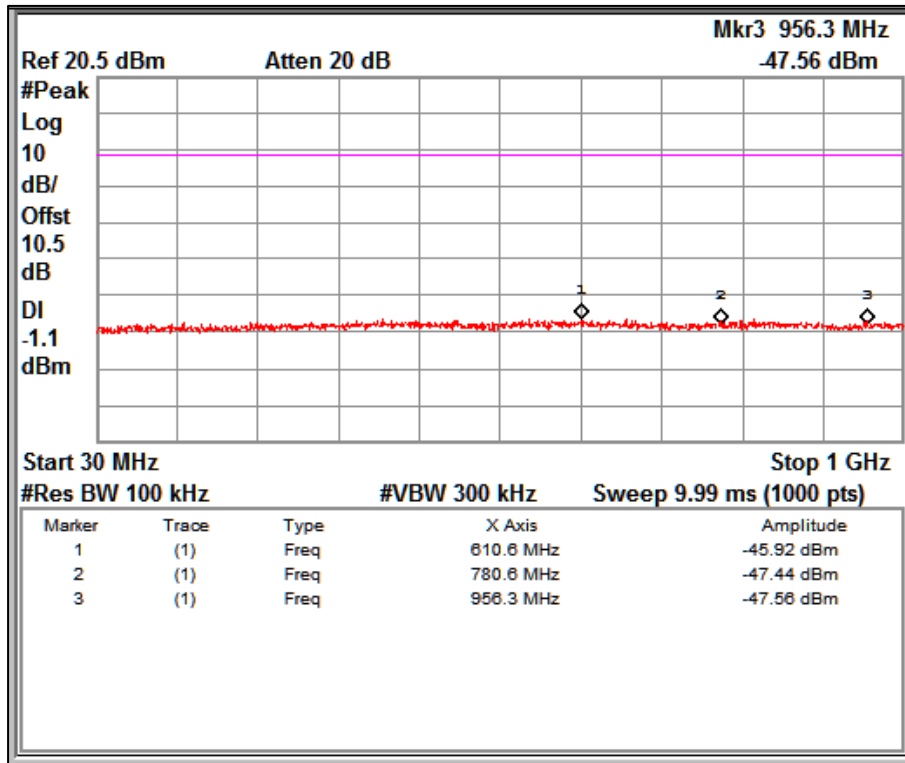
Channel Frequency 2437MHz

Frequency Range 9kHz –150kHz



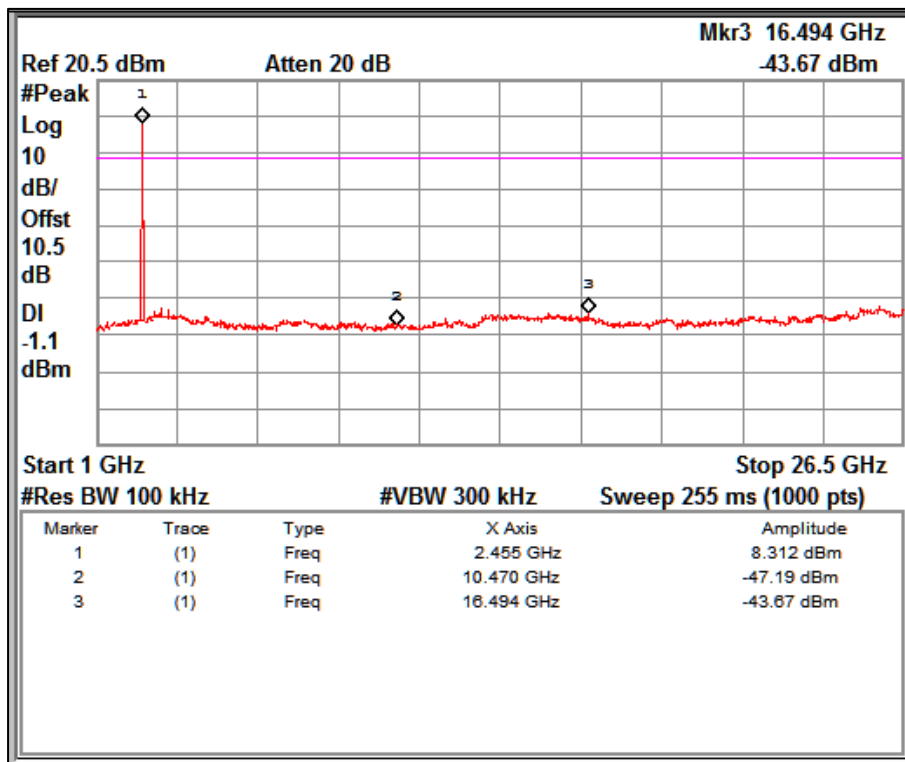
Channel Frequency 2437MHz

Frequency Range 150kHz –30MHz



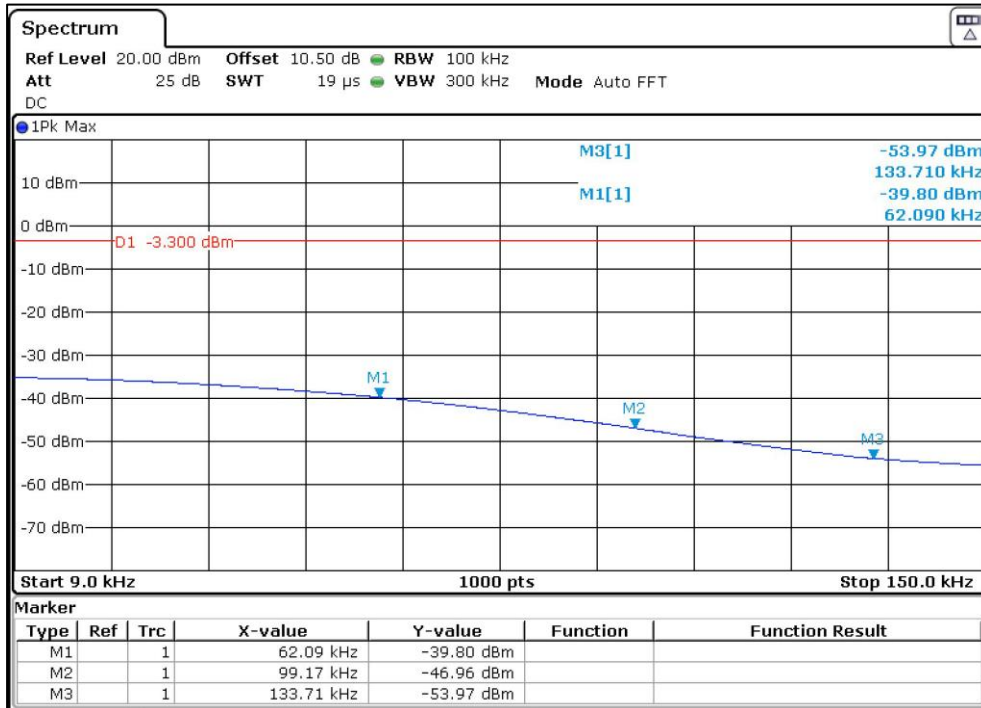
Channel Frequency 2437MHz

Frequency Range 30MHz –1GHz



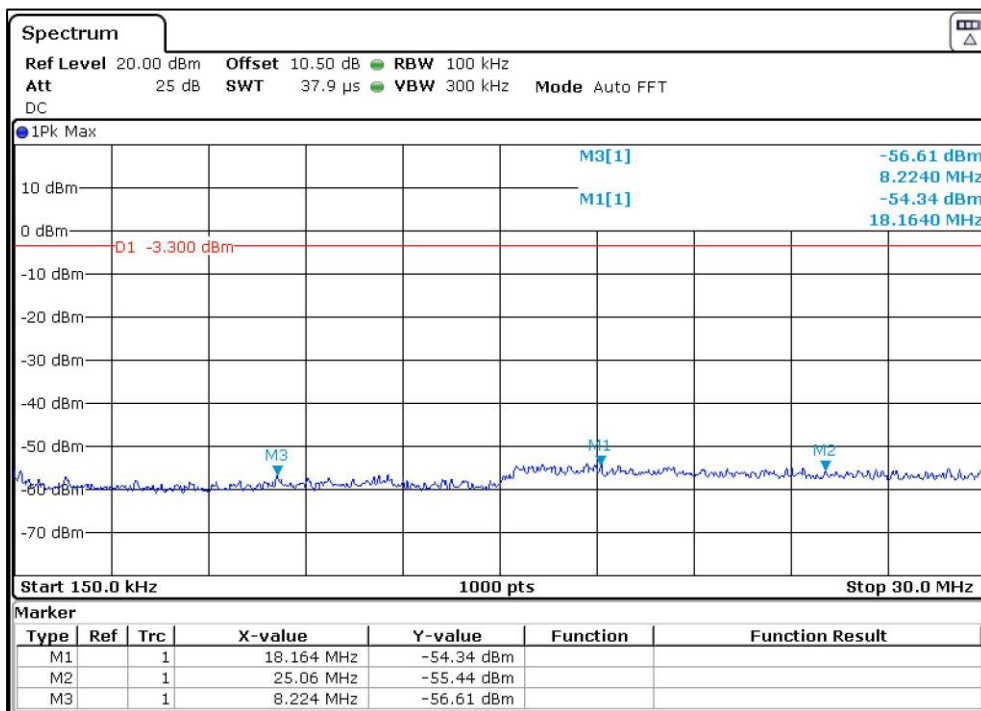
Channel Frequency 2437MHz

Frequency Range 1GHz – 26.5GHz



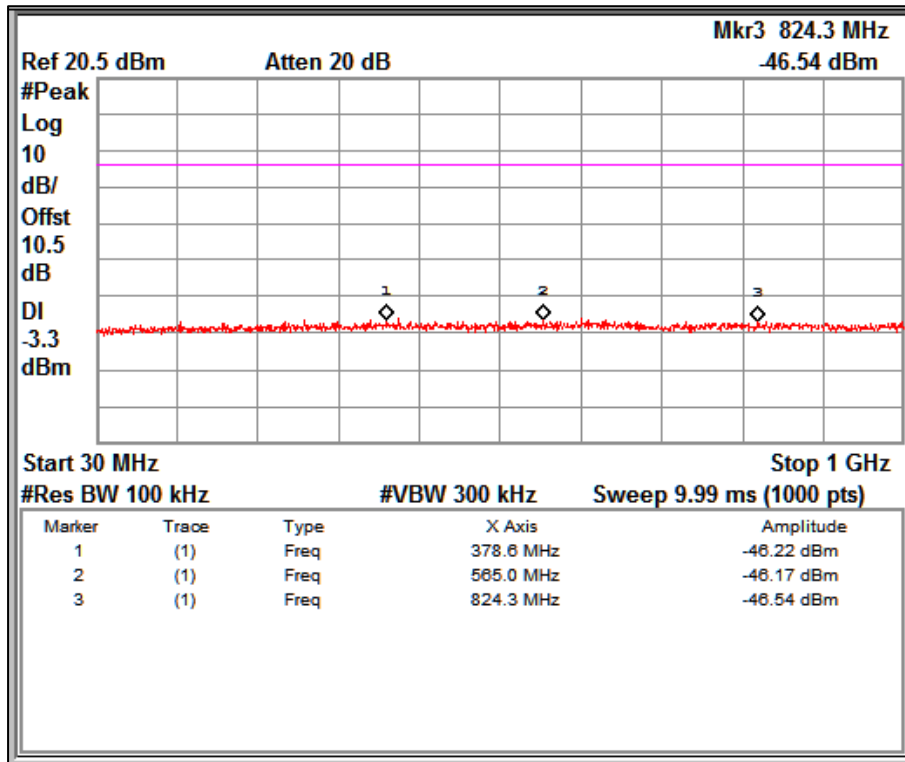
Channel Frequency 2462MHz

Frequency Range 9kHz –150kHz



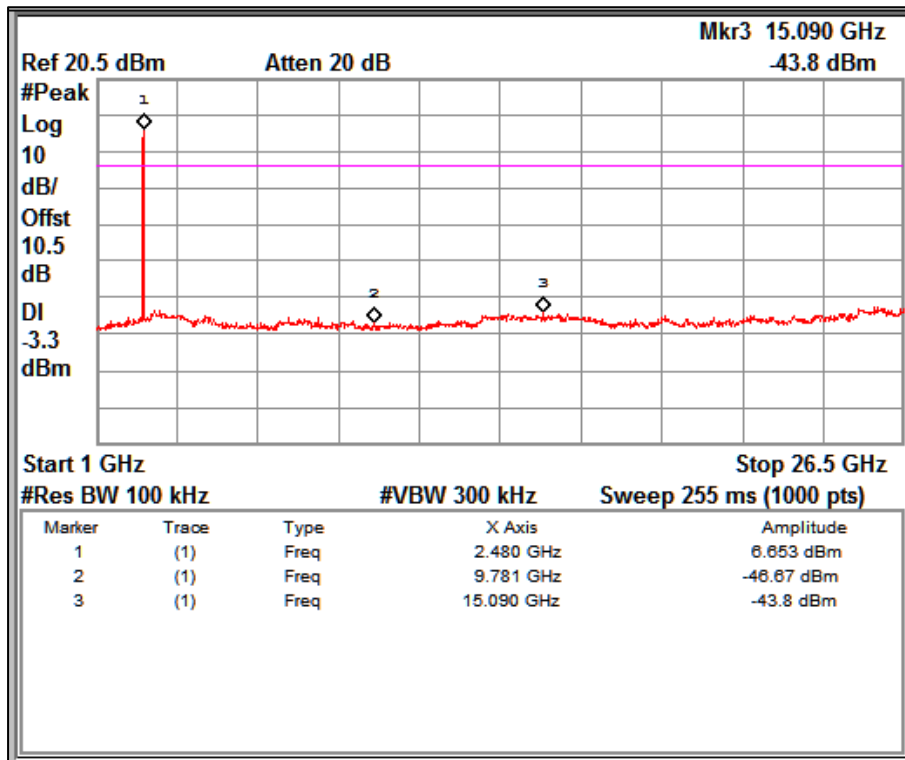
Channel Frequency 2462MHz

Frequency Range 150kHz –30MHz



Channel Frequency 2462MHz

Frequency Range 30MHz –1GHz

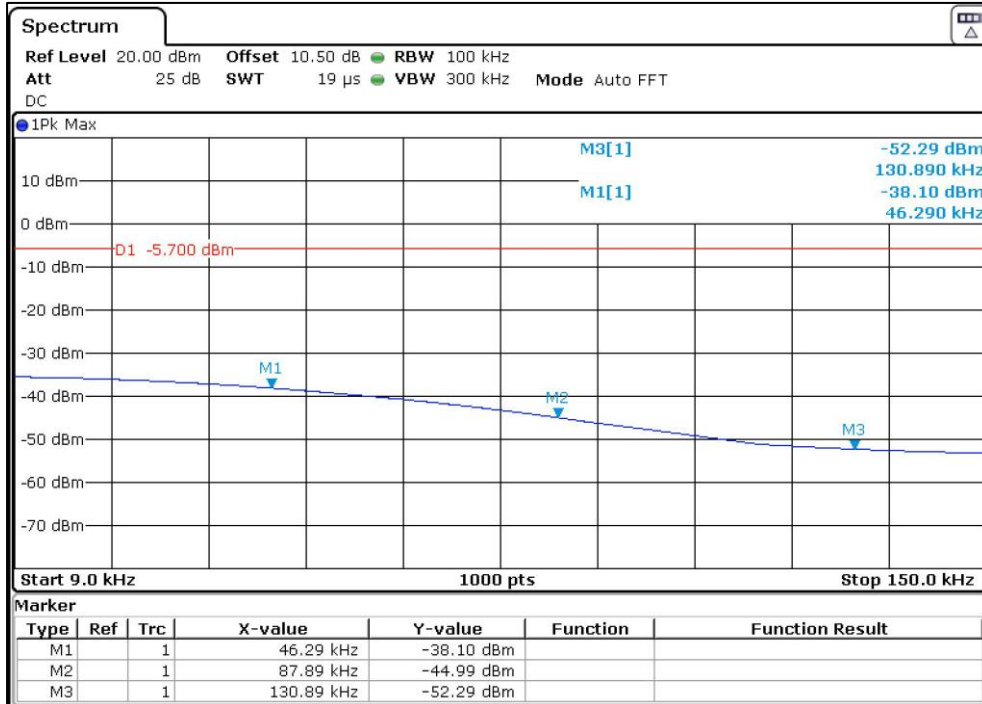


Channel Frequency 2462MHz

Frequency Range 1GHz – 26.5GHz

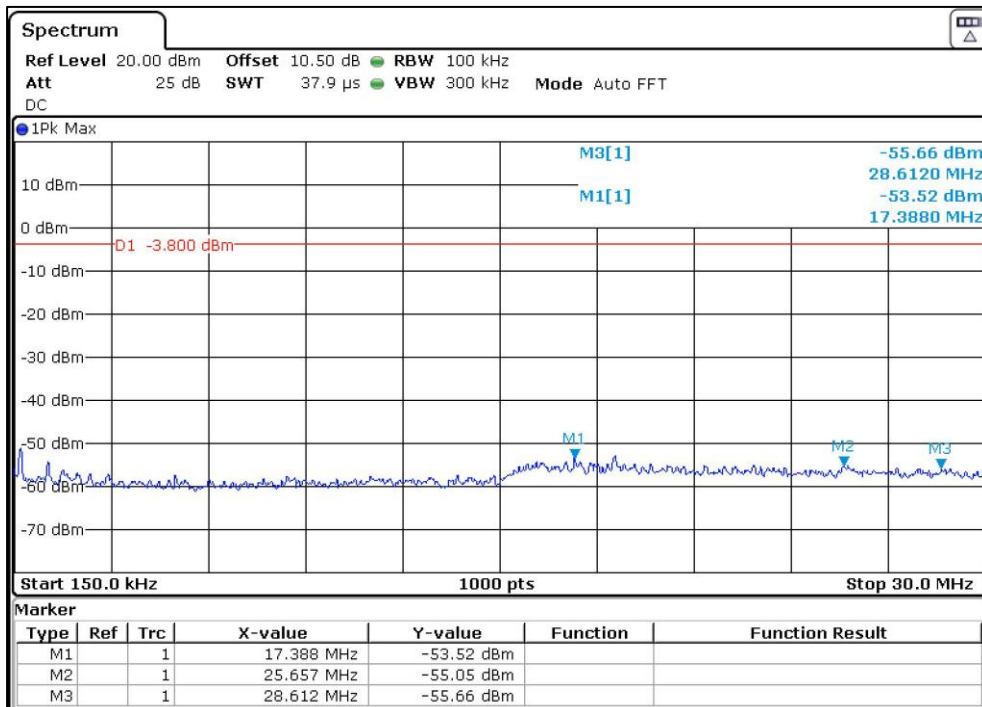
Modulation: 802.11b

Data Rate 11Mbps



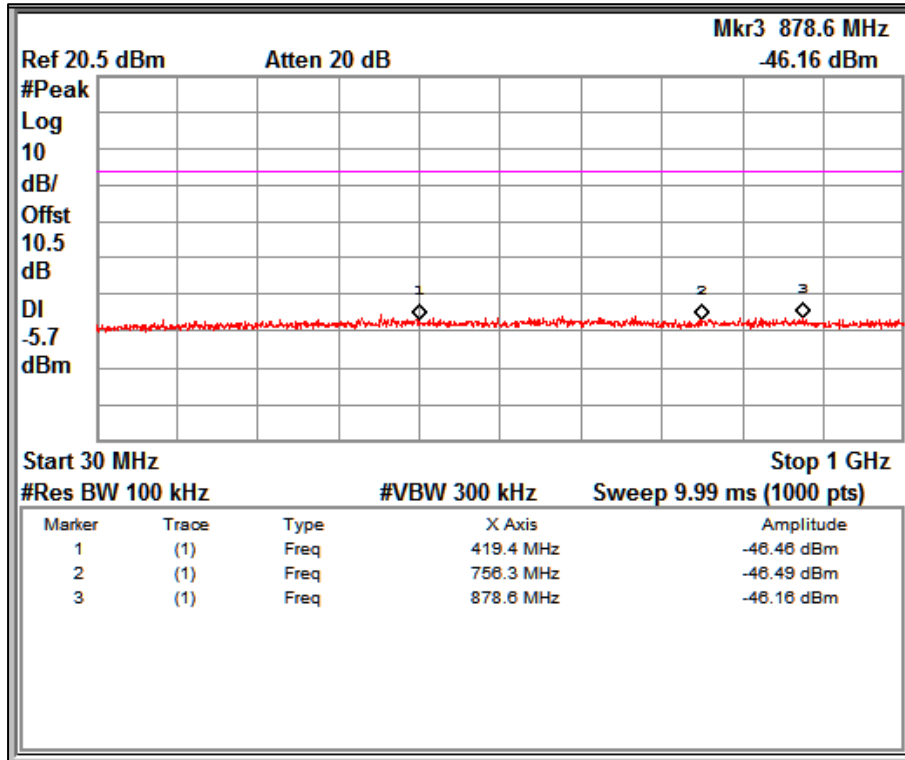
Channel Frequency 2412MHz

Frequency Range 9kHz –150kHz



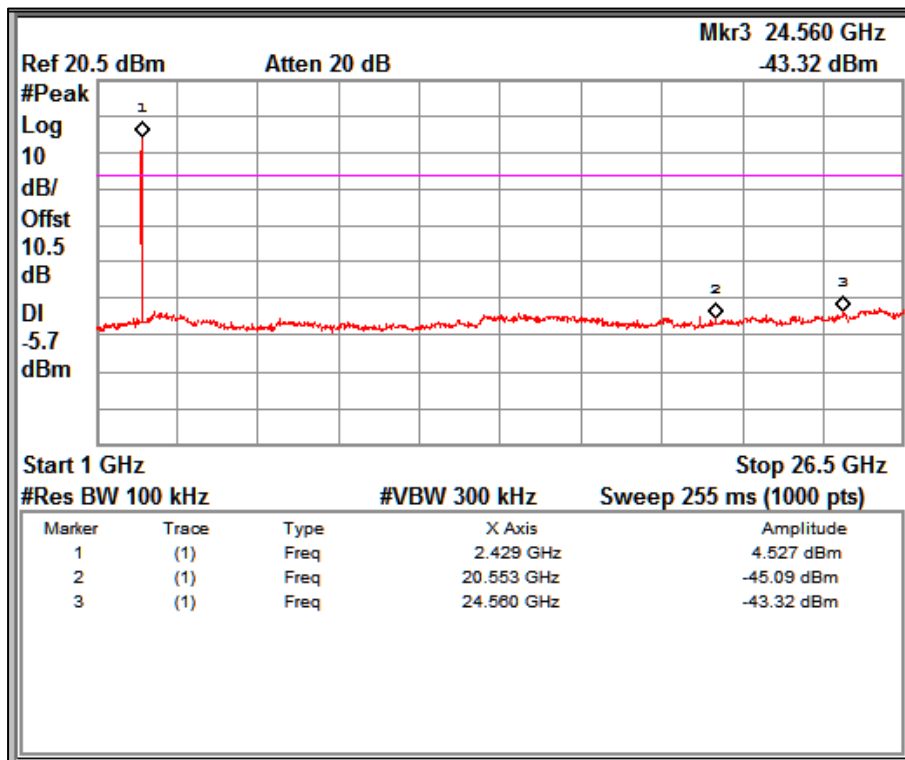
Channel Frequency 2412MHz

Frequency Range 150kHz –30MHz



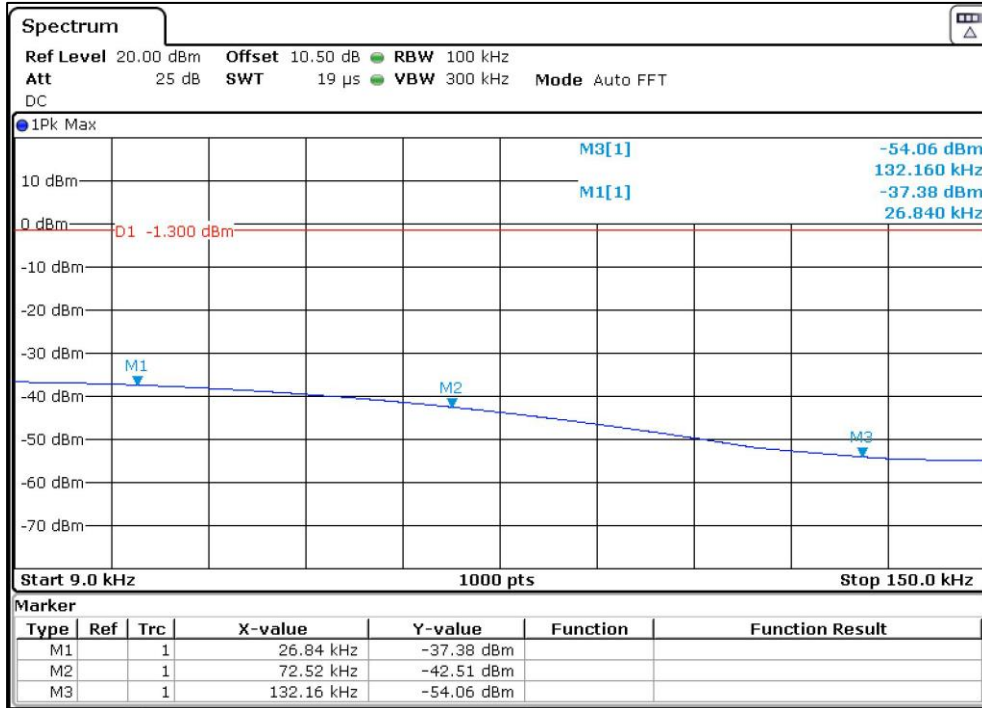
Channel Frequency 2412MHz

Frequency Range 30MHz –1GHz



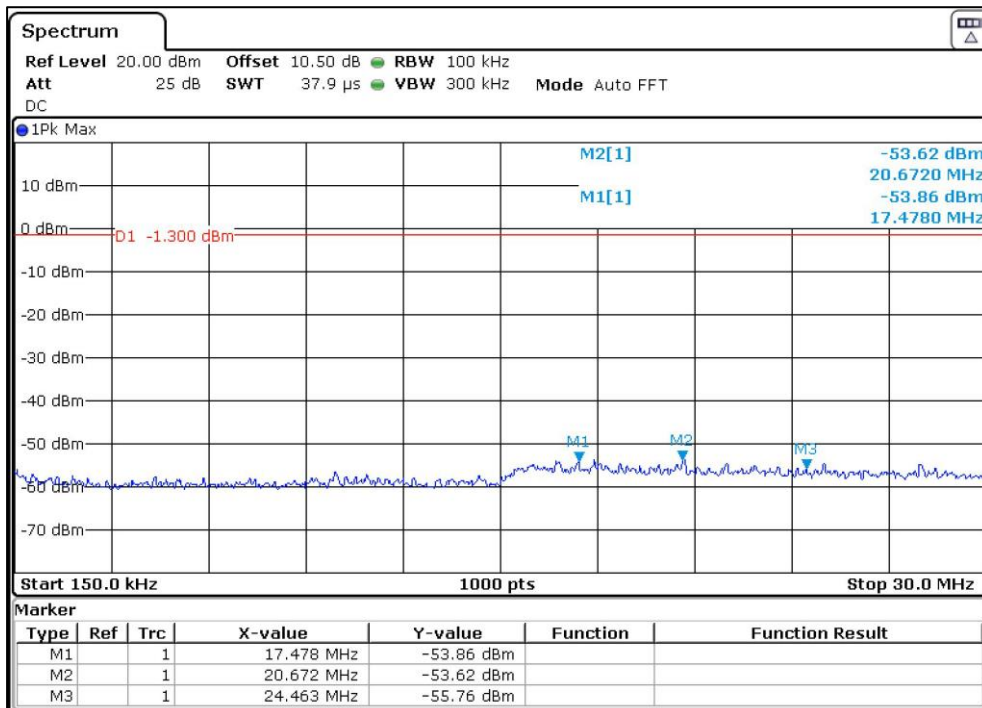
Channel Frequency 2412MHz

Frequency Range 1GHz – 26.5GHz



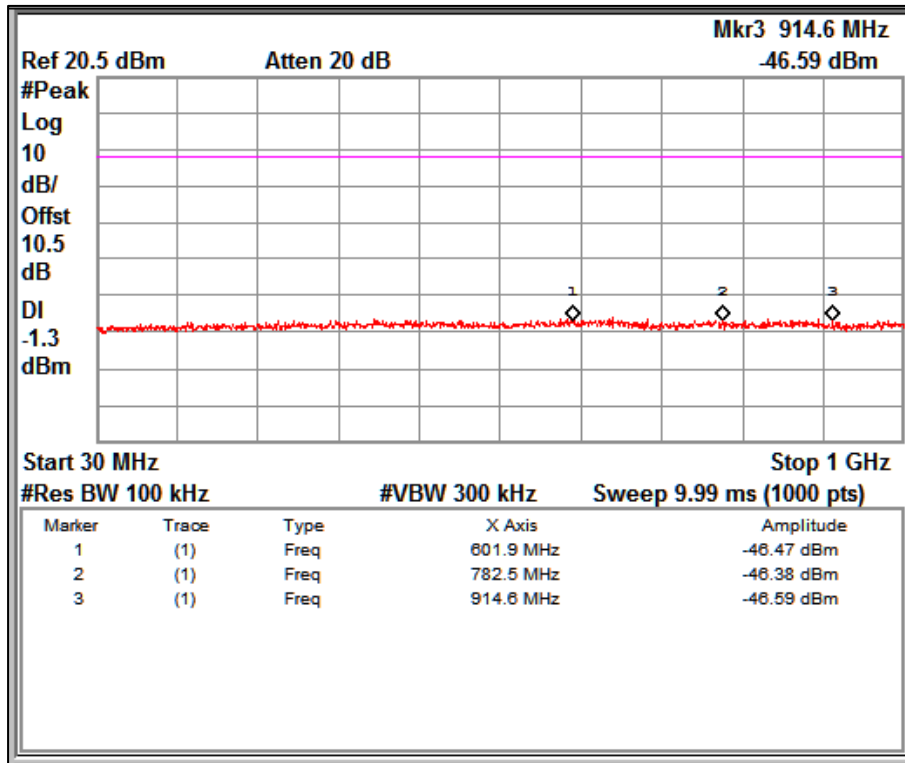
Channel Frequency 2437MHz

Frequency Range 9kHz –150kHz



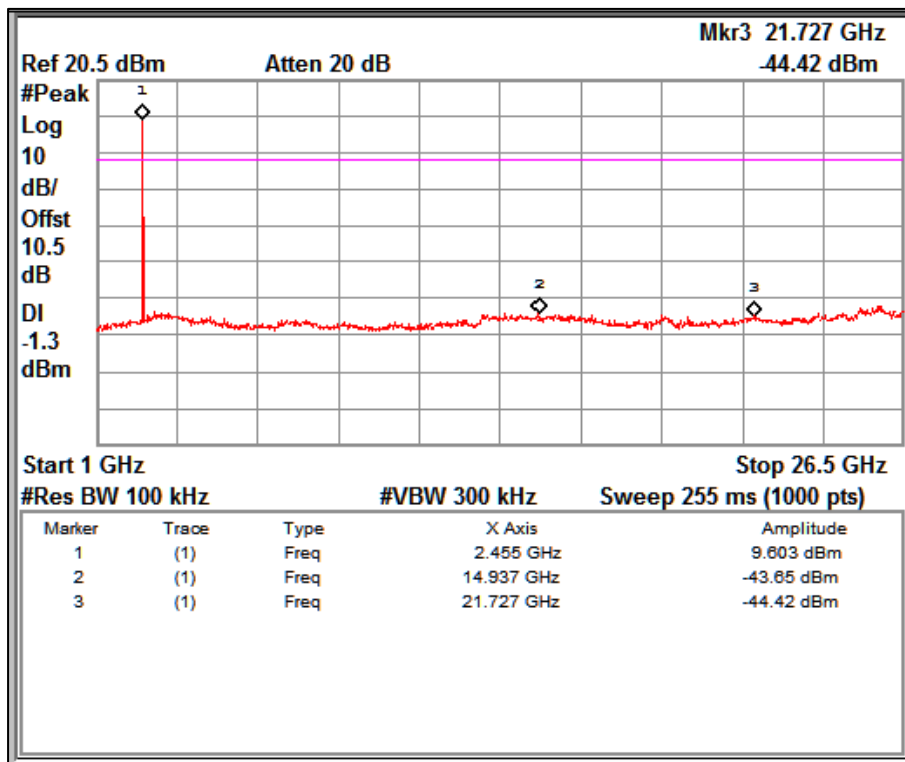
Channel Frequency 2437MHz

Frequency Range 150kHz –30MHz



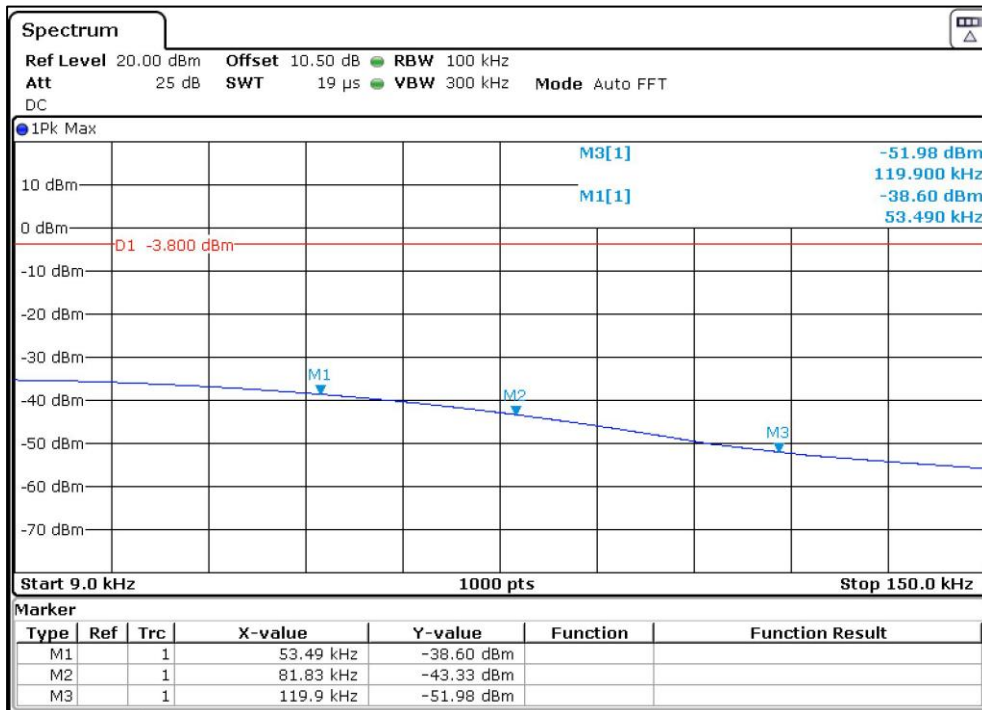
Channel Frequency 2437MHz

Frequency Range 30MHz –1GHz



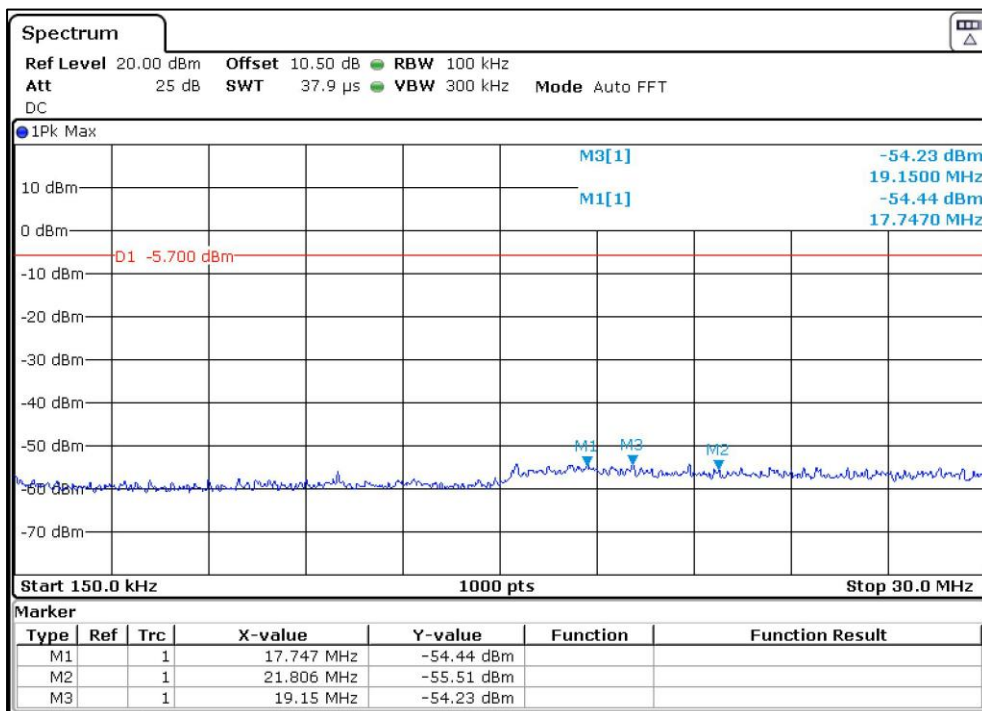
Channel Frequency 2437MHz

Frequency Range 1GHz – 26.5GHz



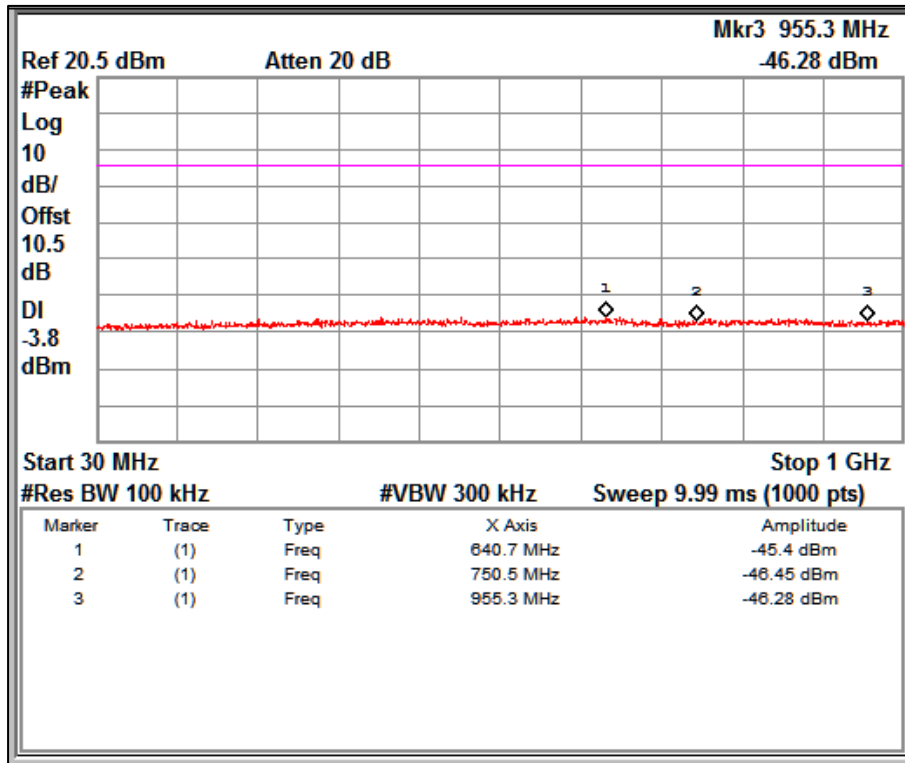
Channel Frequency 2462MHz

Frequency Range 9kHz –150kHz



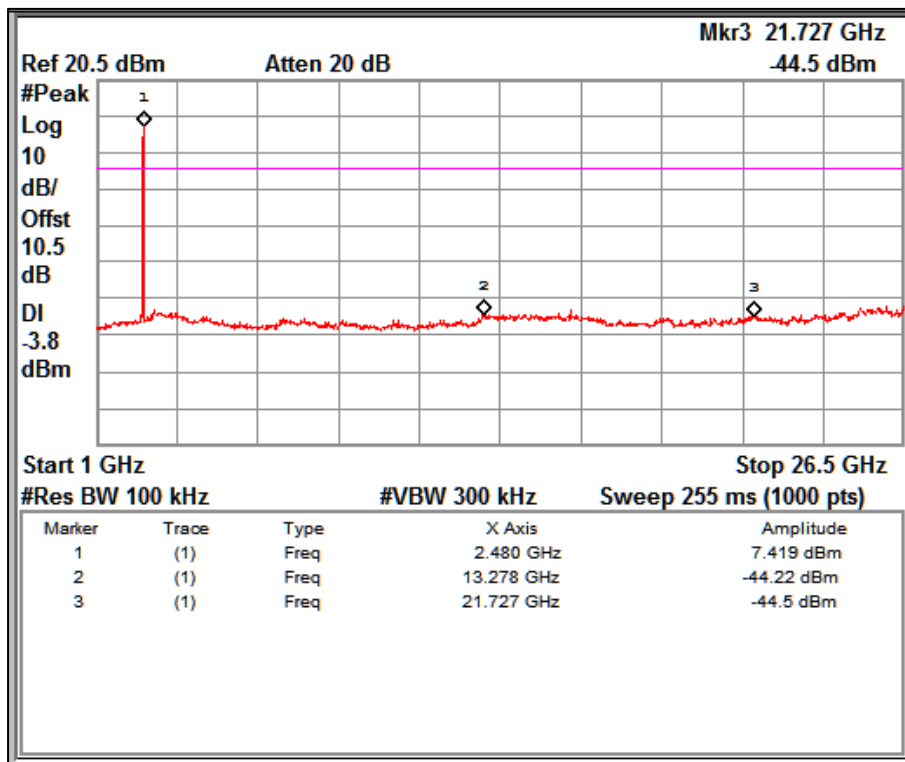
Channel Frequency 2462MHz

Frequency Range 150kHz –30MHz



Channel Frequency 2462MHz

Frequency Range 30MHz –1GHz



Channel Frequency 2462MHz

Frequency Range 1GHz – 26.5GHz

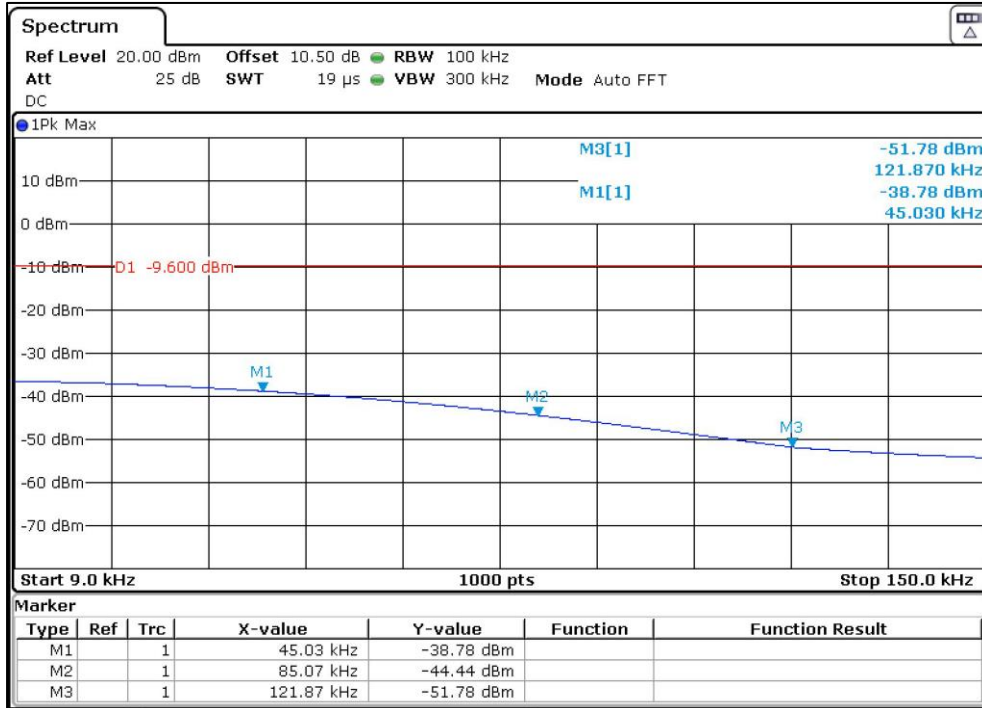
Prüfbericht - Nr.:
Test Report No.:

ULR-TC568821300000073F

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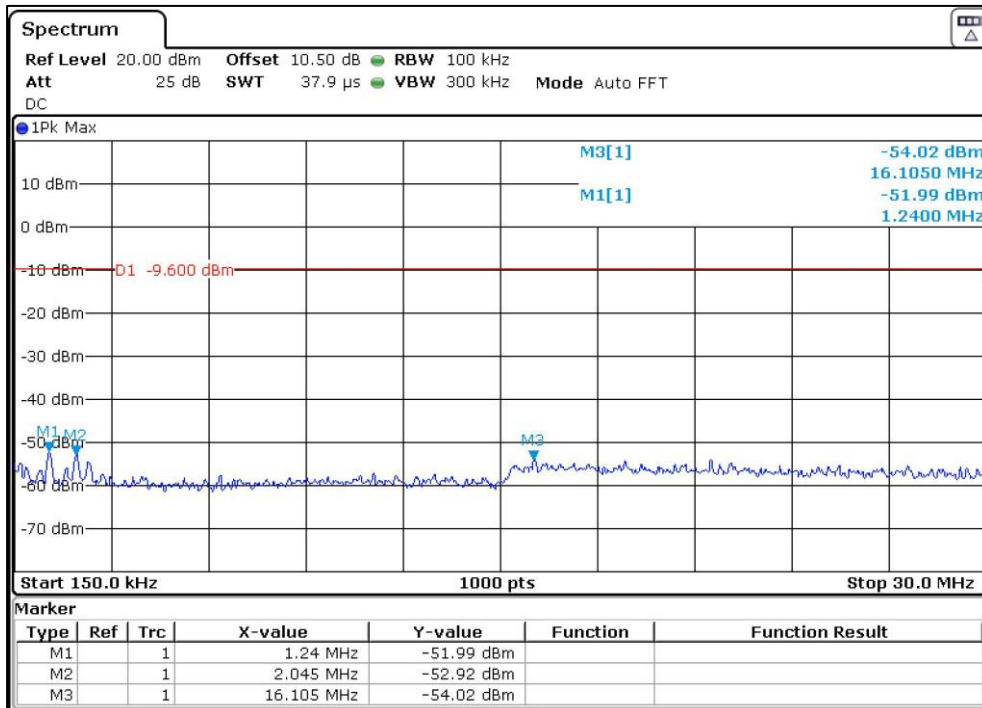
Modulation: 802.11g

Data Rate 6Mbps



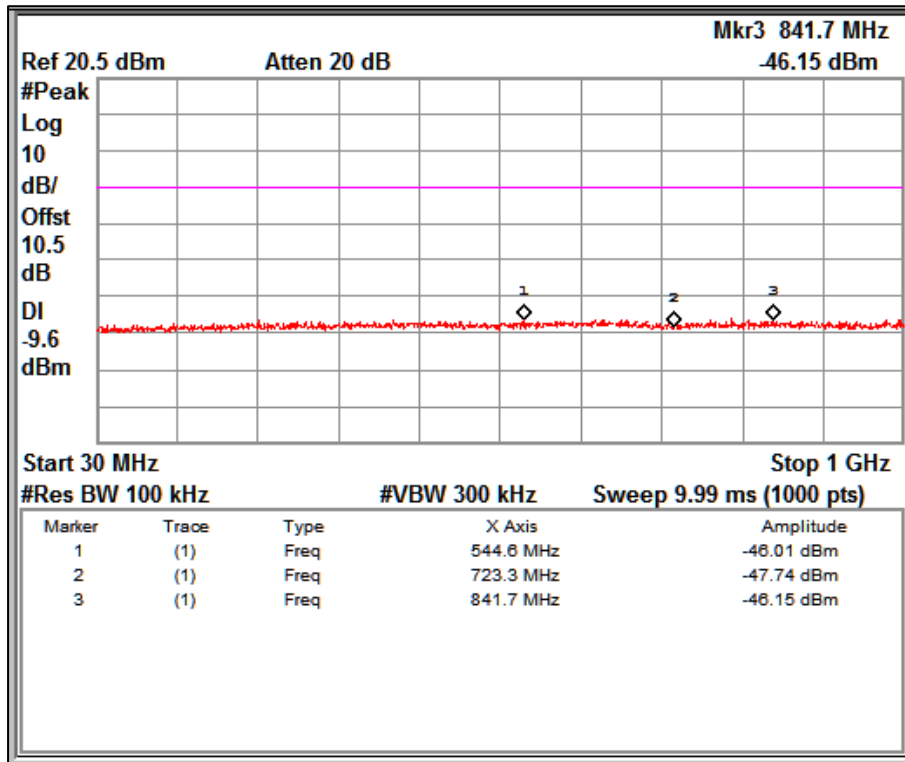
Channel Frequency 2412MHz

Frequency Range 9kHz –150kHz



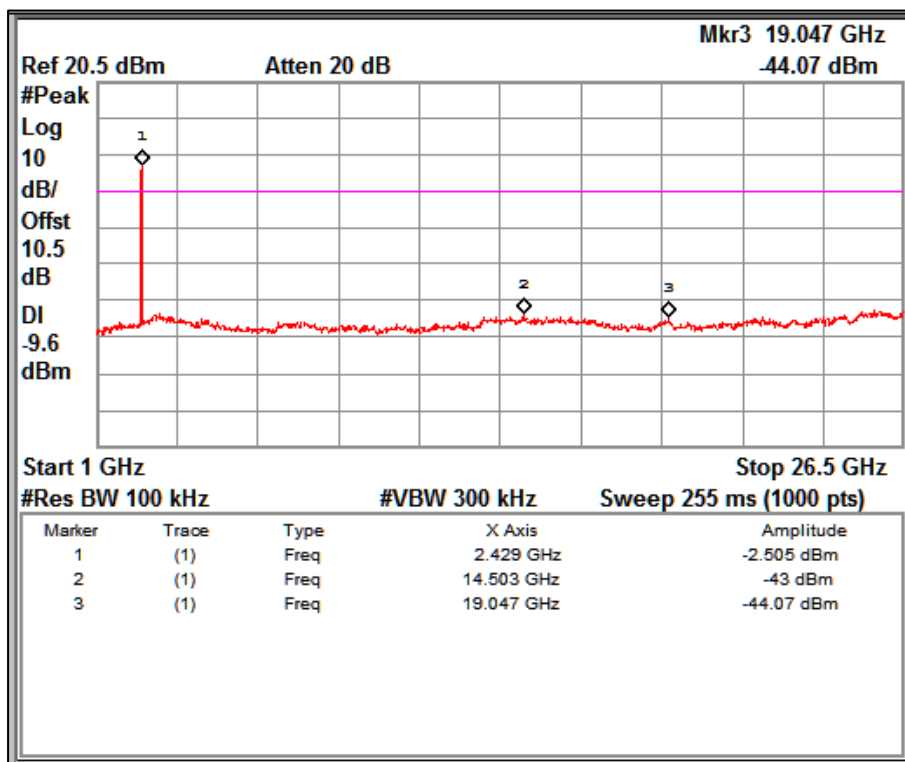
Channel Frequency 2412MHz

Frequency Range 150kHz –30MHz



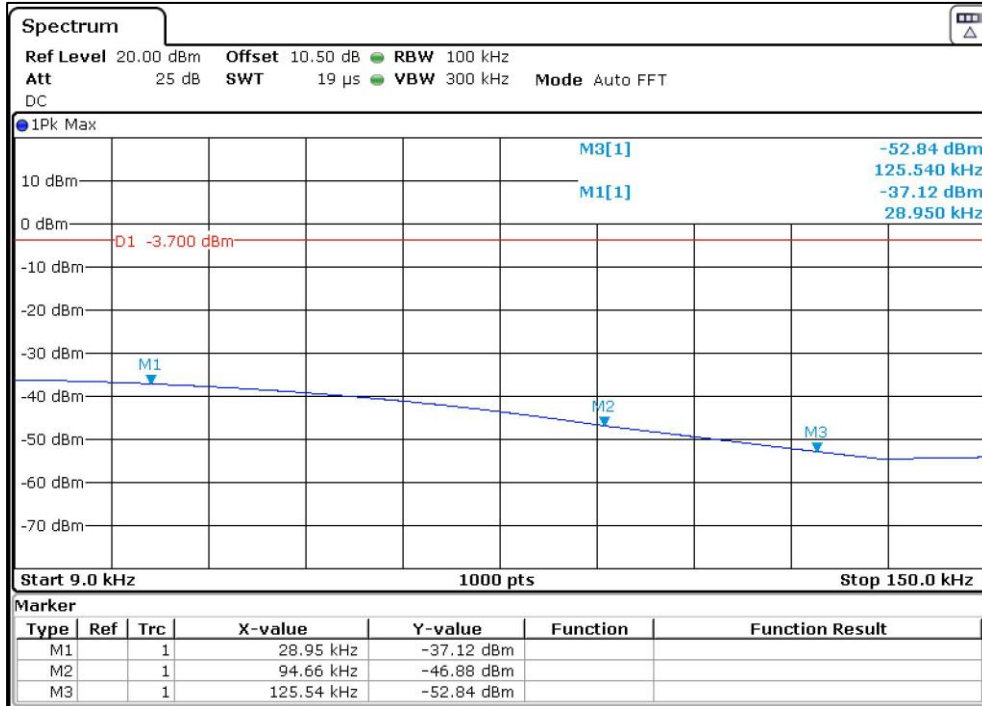
Channel Frequency 2412MHz

Frequency Range 30MHz –1GHz



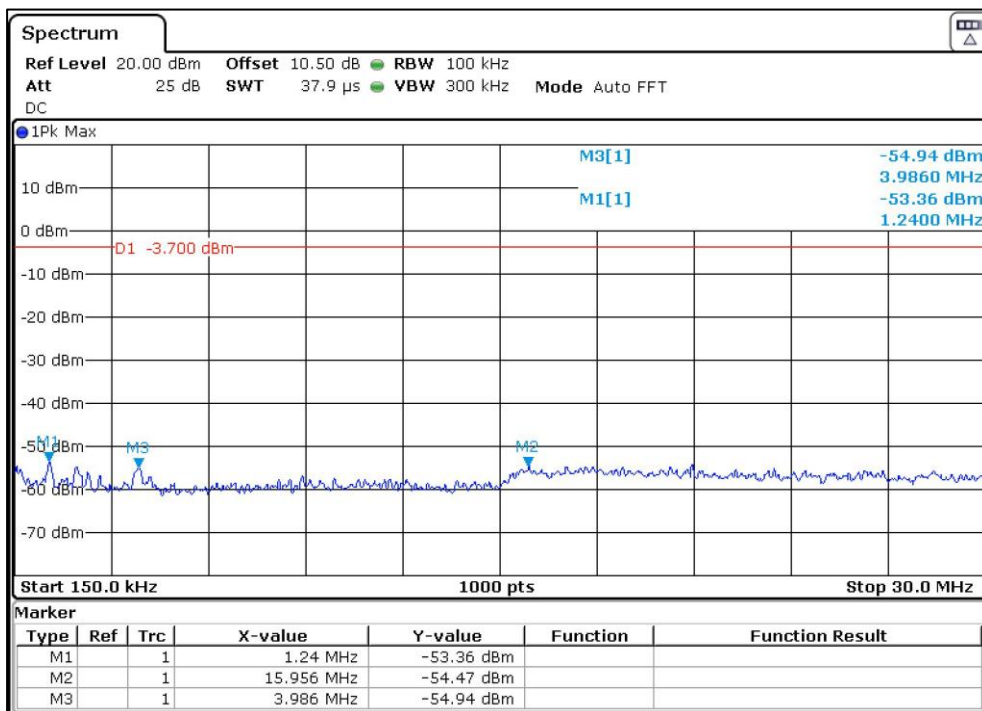
Channel Frequency 2412MHz

Frequency Range 1GHz – 26.5GHz



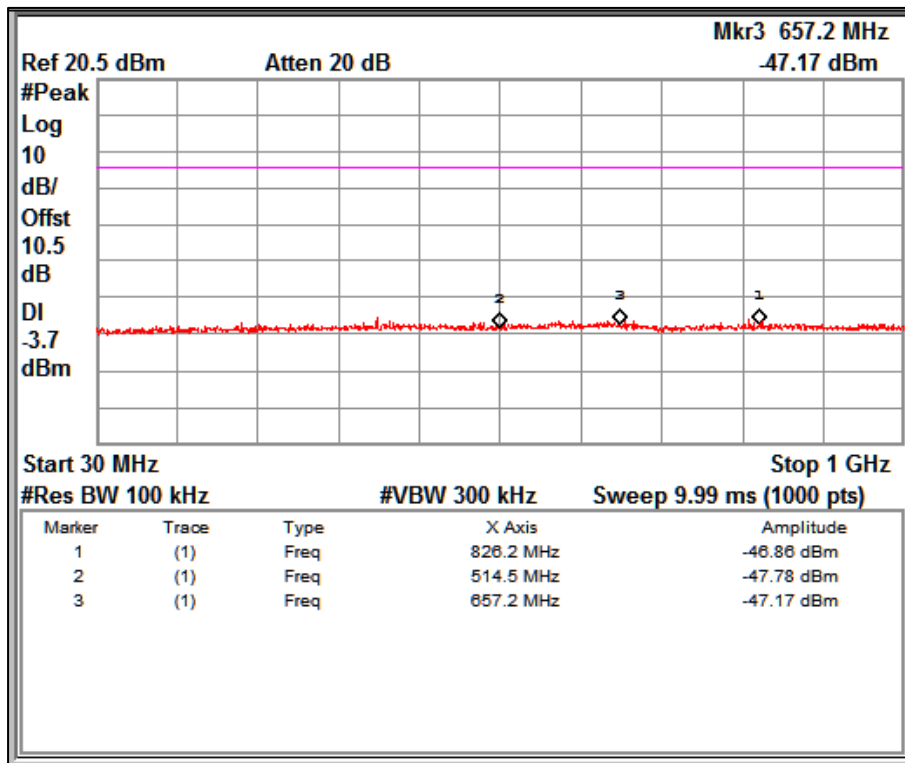
Channel Frequency 2437MHz

Frequency Range 9kHz –150kHz



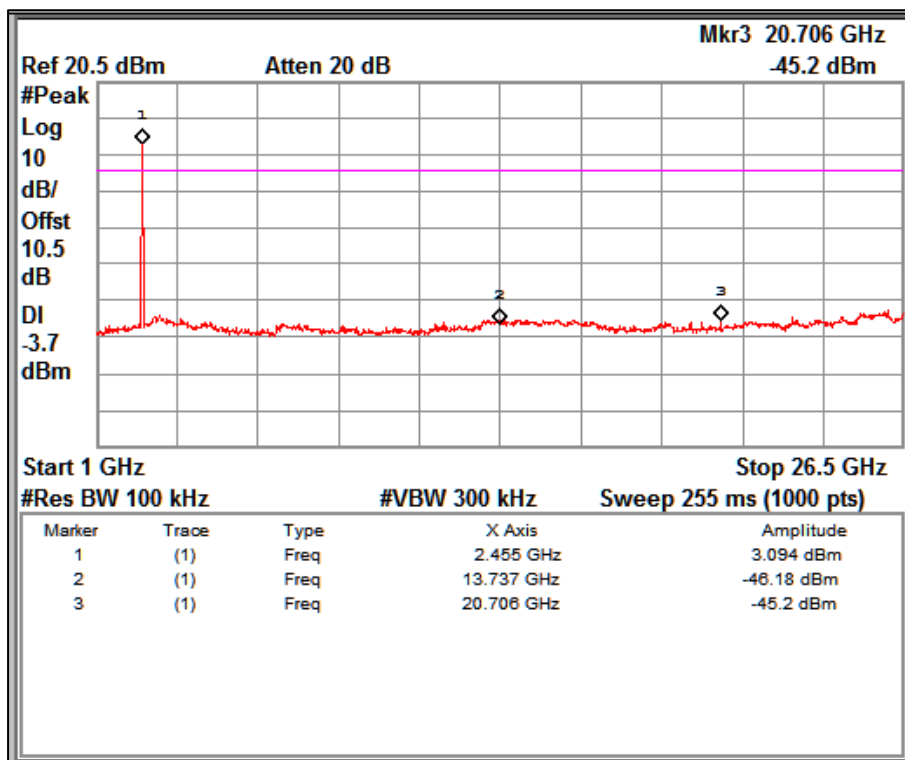
Channel Frequency 2437MHz

Frequency Range 150kHz –30MHz



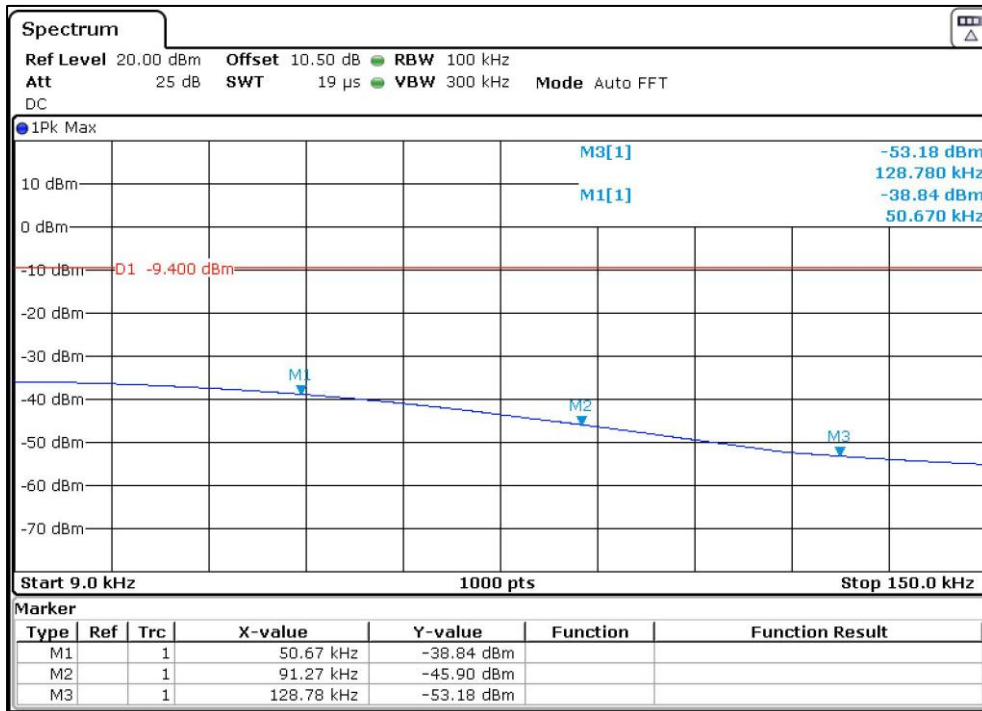
Channel Frequency 2437MHz

Frequency Range 30MHz –1GHz



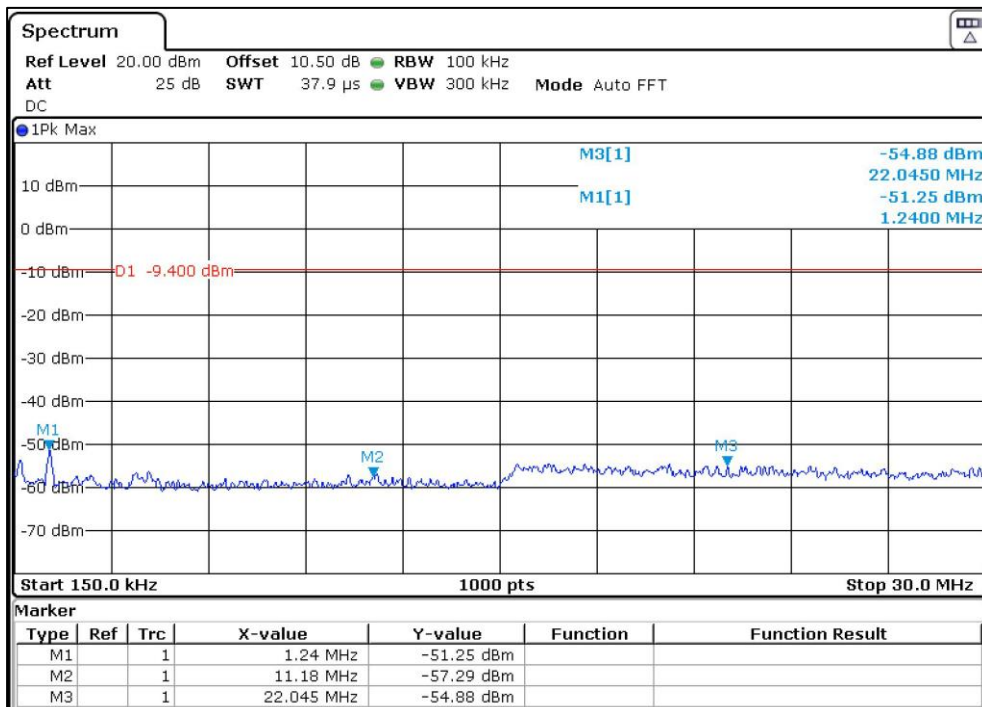
Channel Frequency 2437MHz

Frequency Range 1GHz – 26.5GHz



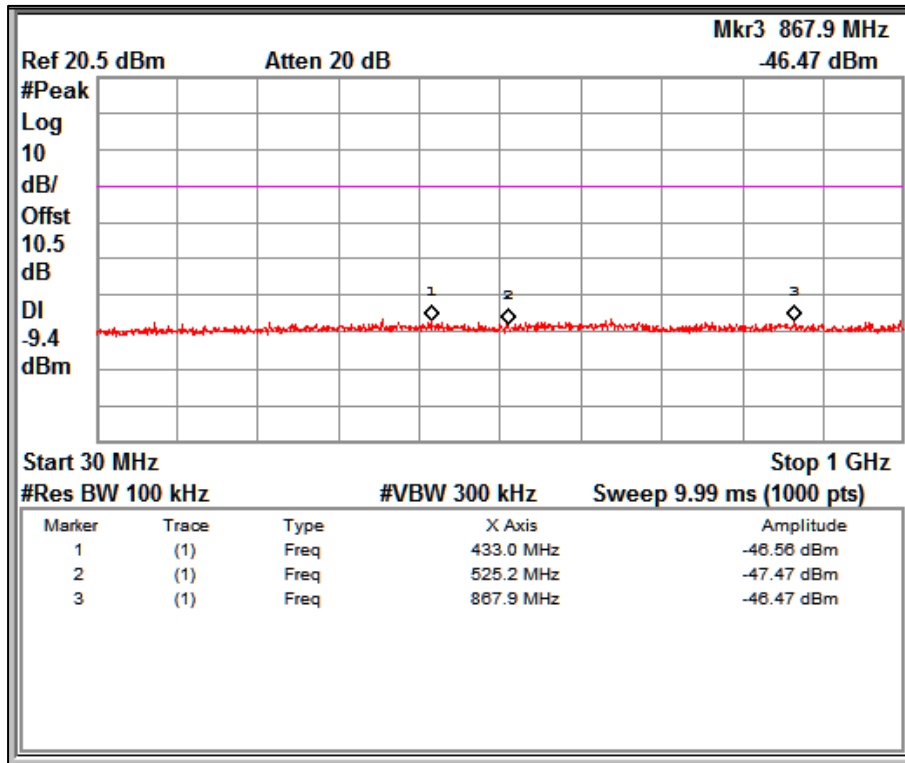
Channel Frequency 2462MHz

Frequency Range 9kHz –150kHz



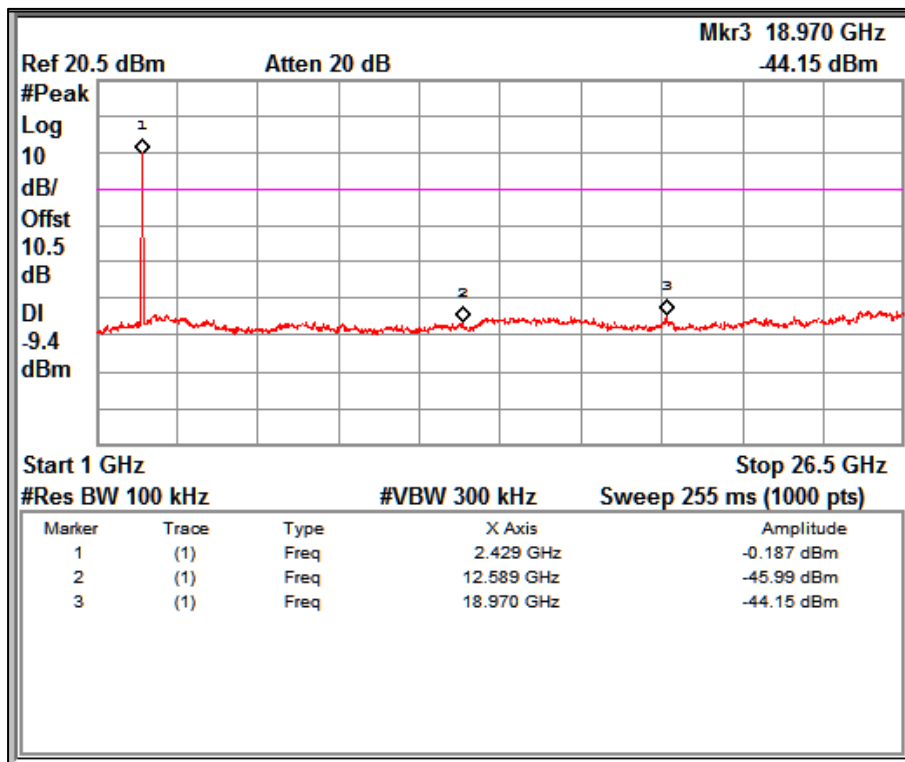
Channel Frequency 2462MHz

Frequency Range 150kHz –30MHz



Channel Frequency 2462MHz

Frequency Range 30MHz –1GHz

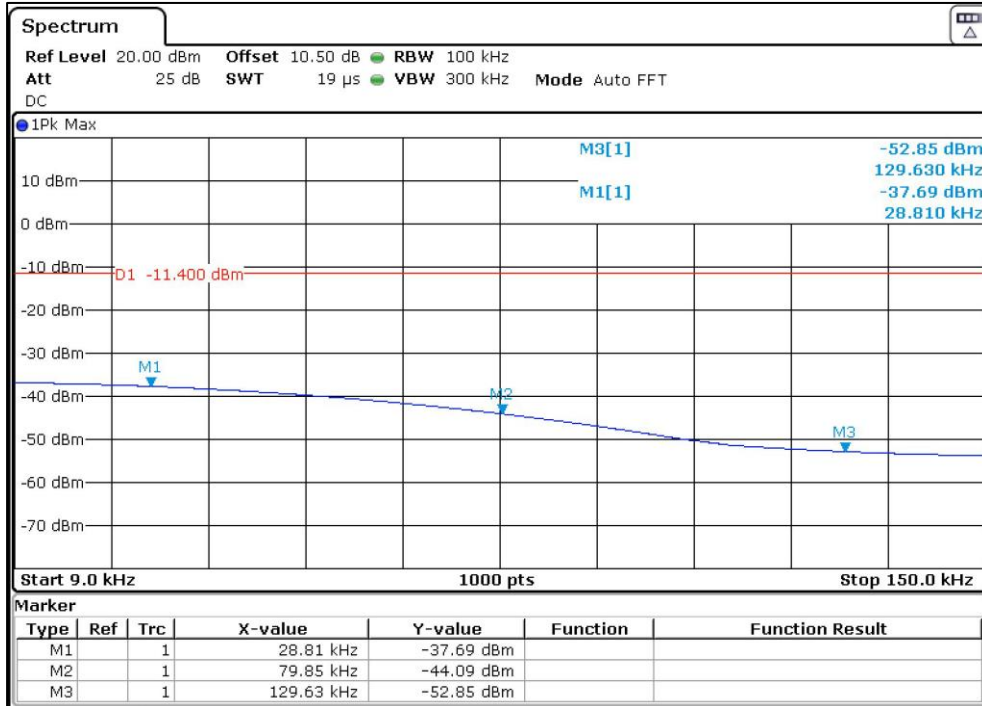


Channel Frequency 2462MHz

Frequency Range 1GHz – 26.5GHz

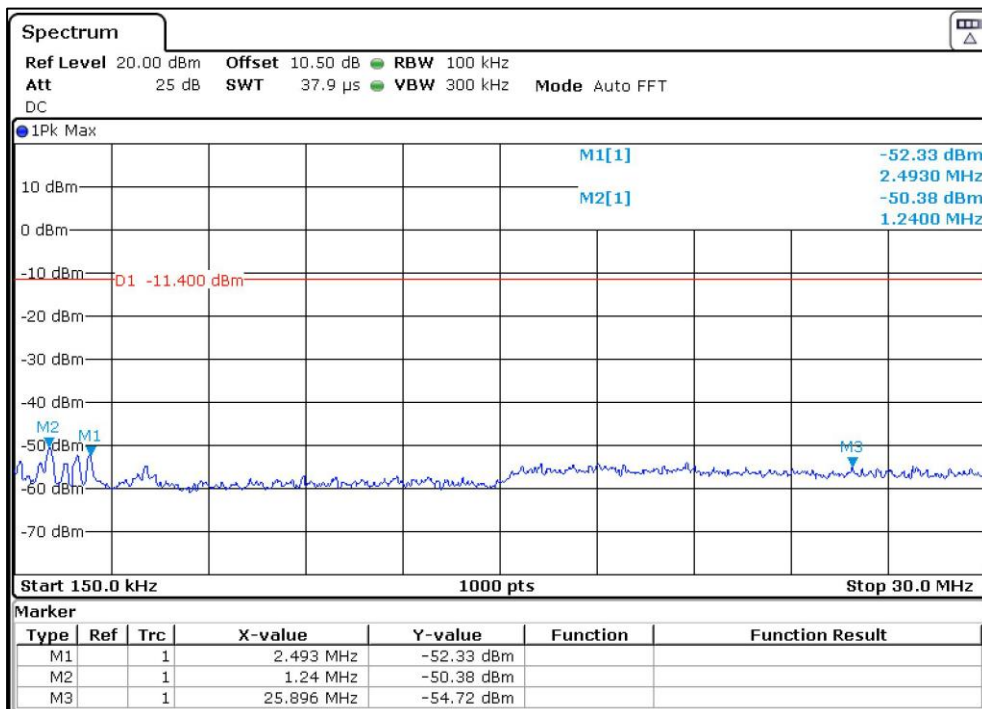
Modulation: 802.11g

Data Rate 54Mbps



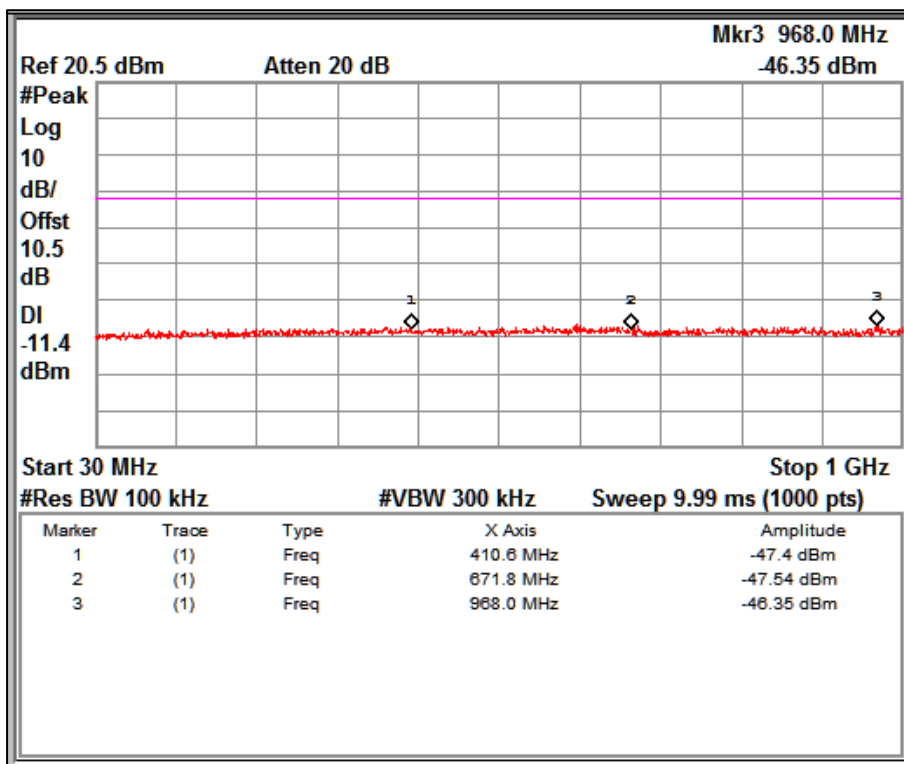
Channel Frequency 2412MHz

Frequency Range 9kHz –150kHz



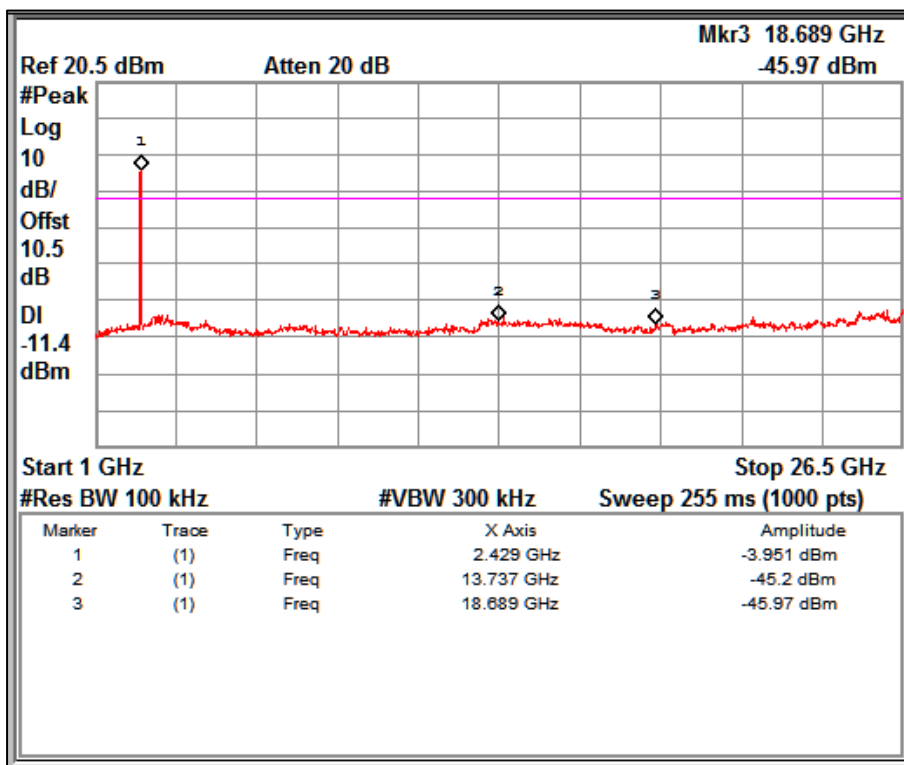
Channel Frequency 2412MHz

Frequency Range 150kHz –30MHz



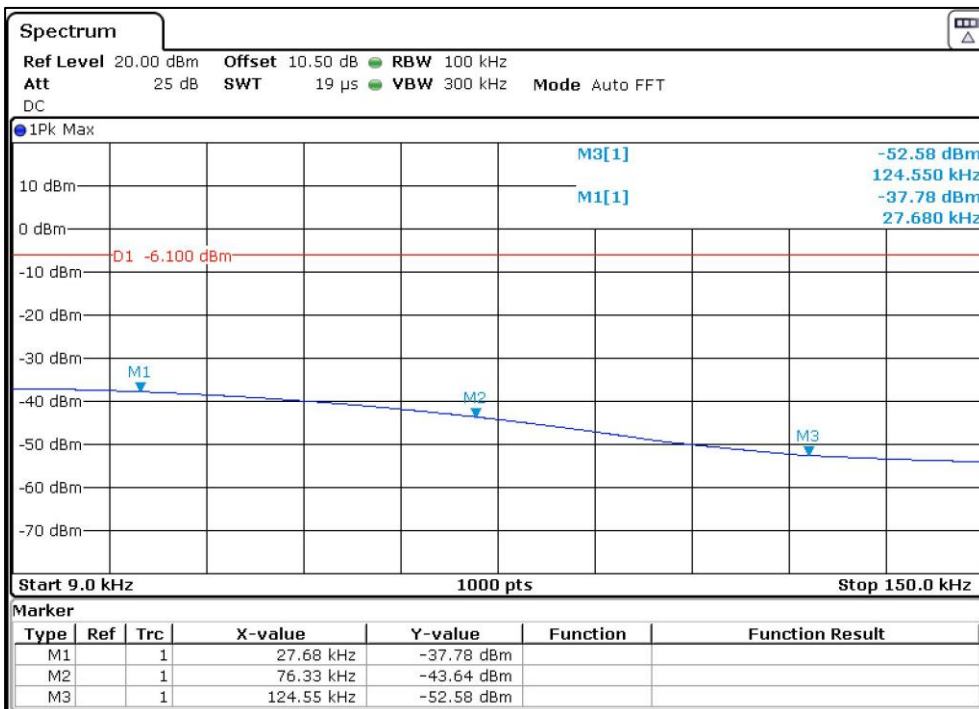
Channel Frequency 2412MHz

Frequency Range 30MHz –1GHz



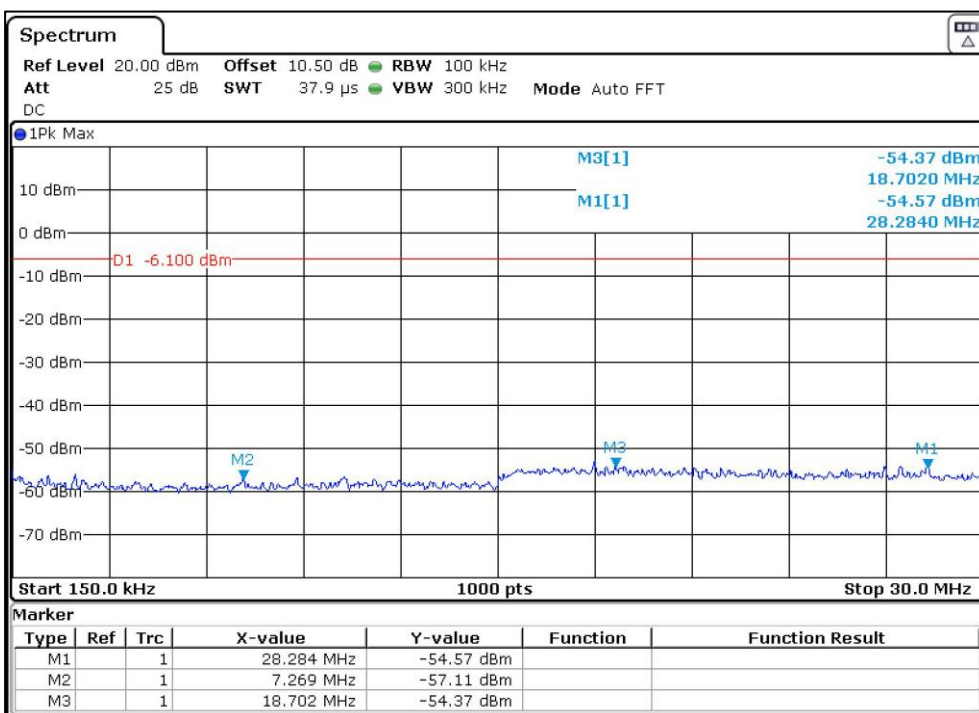
Channel Frequency 2412MHz

Frequency Range 1GHz – 26.5GHz



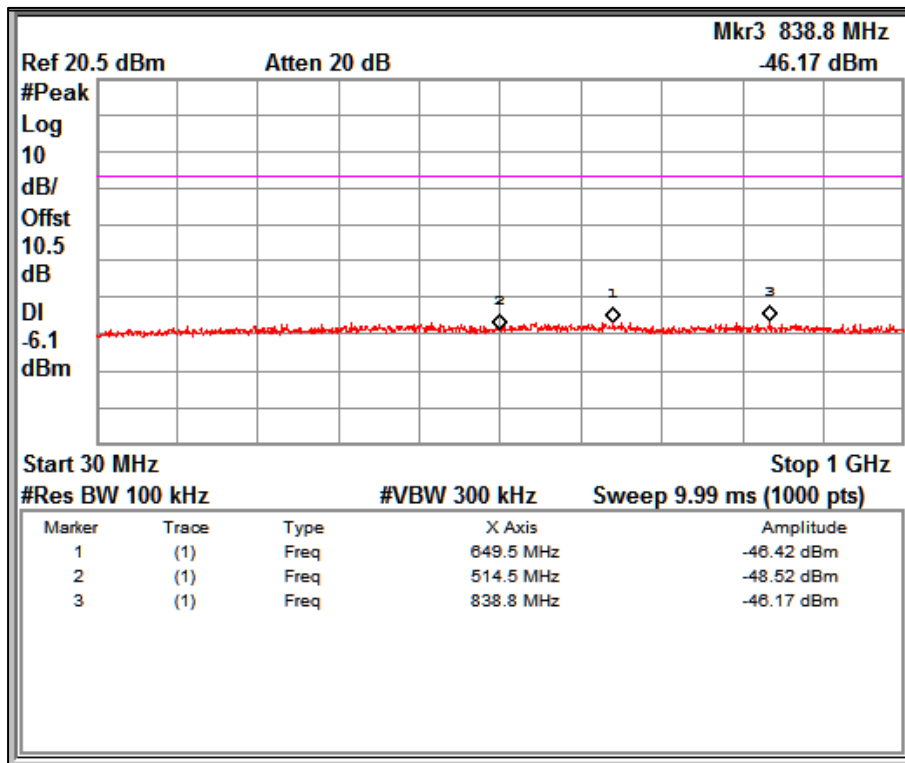
Channel Frequency 2437MHz

Frequency Range 9kHz –150kHz



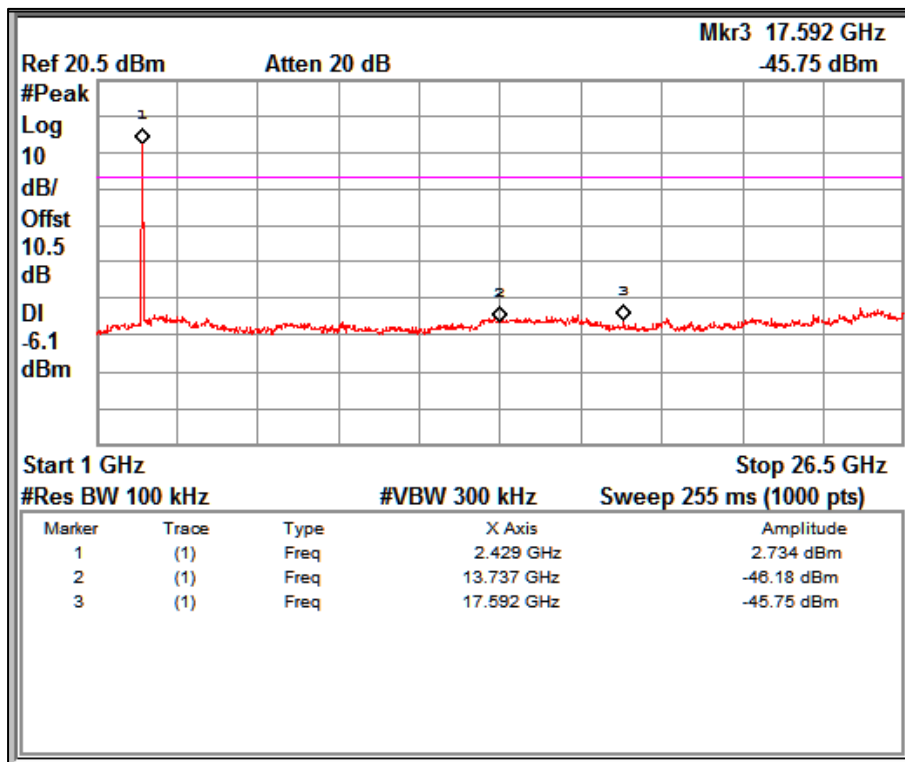
Channel Frequency 2437MHz

Frequency Range 150kHz –30MHz



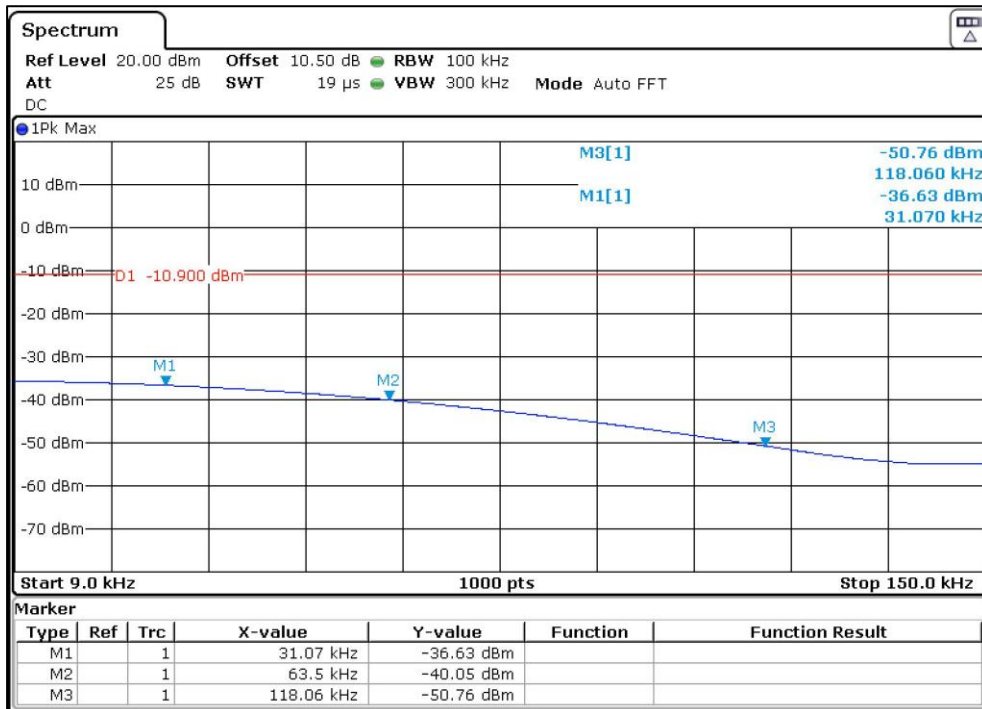
Channel Frequency 2437MHz

Frequency Range 30MHz -1GHz



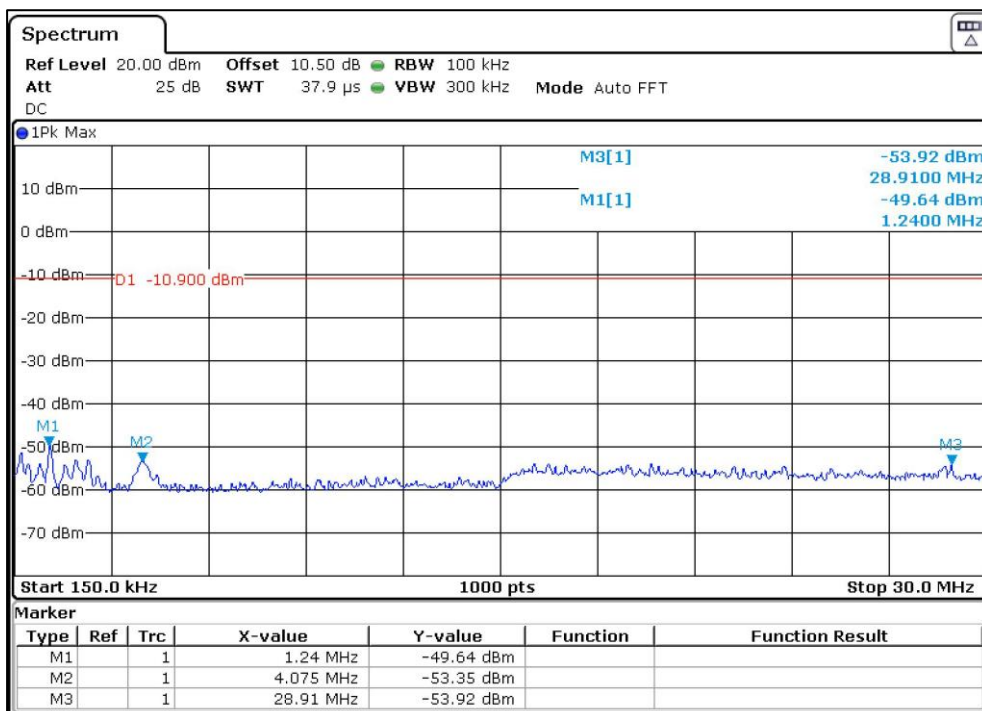
Channel Frequency 2437MHz

Frequency Range 1GHz - 26.5GHz



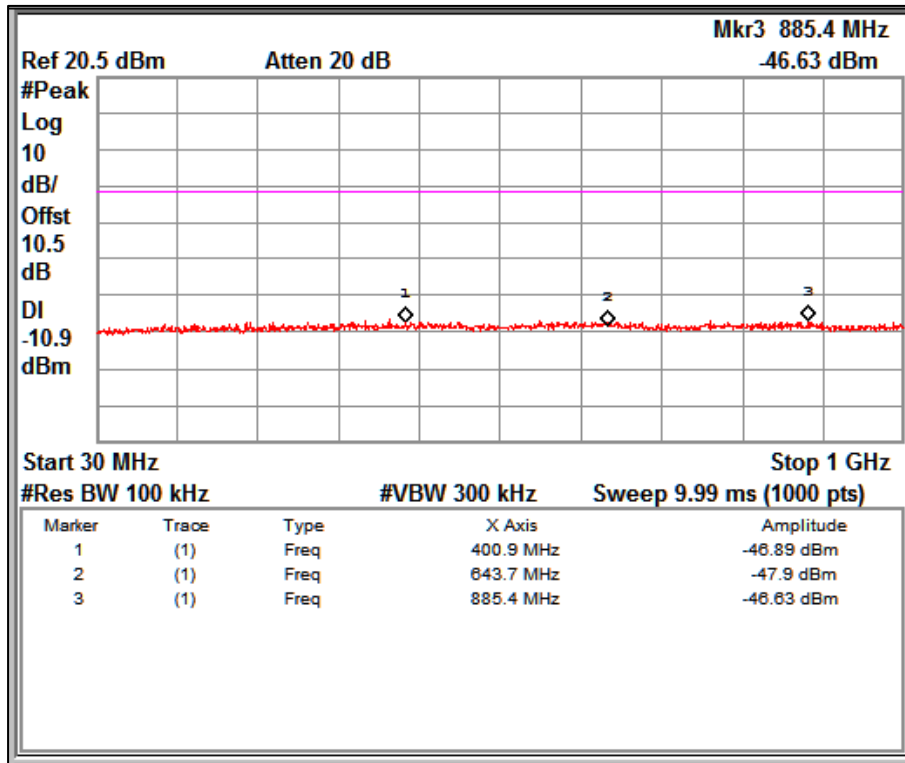
Channel Frequency 2462MHz

Frequency Range 9kHz –150kHz



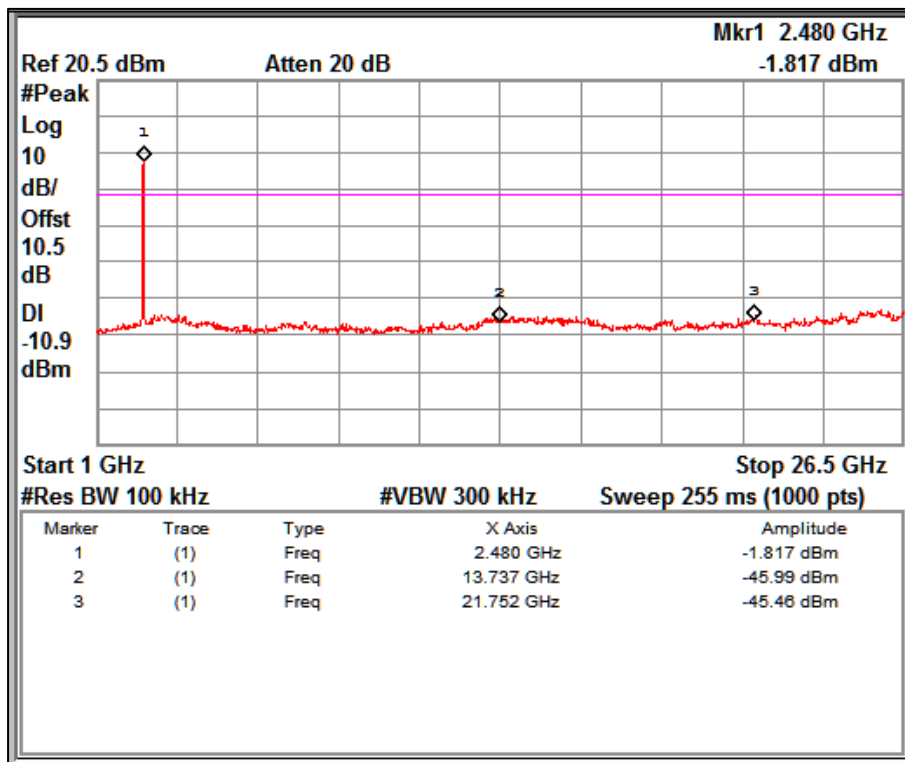
Channel Frequency 2462MHz

Frequency Range 150kHz –30MHz



Channel Frequency 2462MHz

Frequency Range 30MHz –1GHz

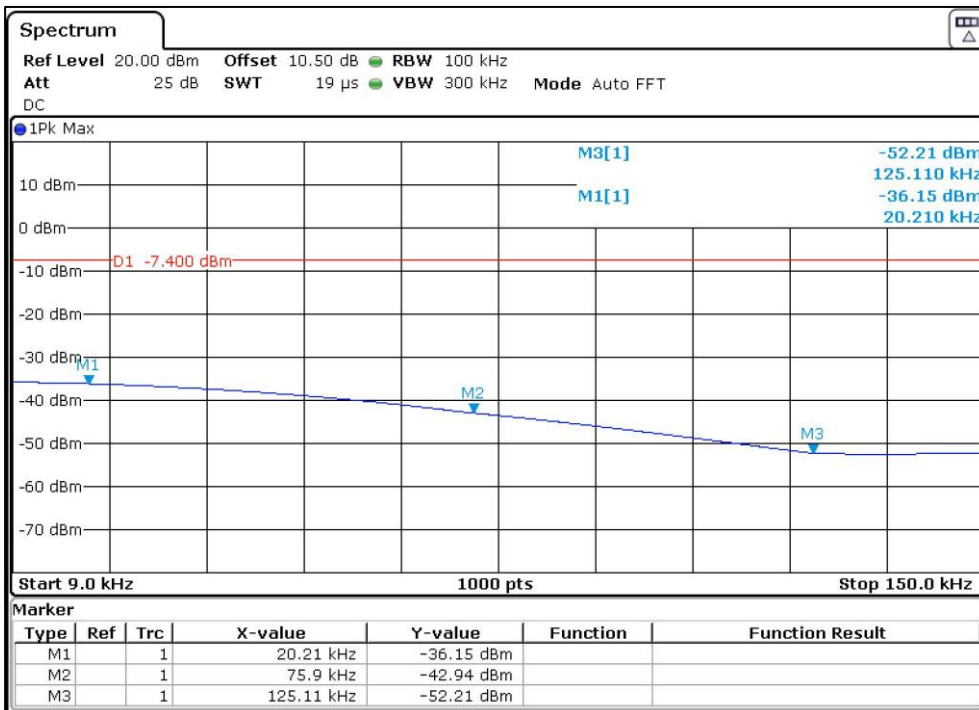


Channel Frequency 2462MHz

Frequency Range 1GHz – 26.5GHz

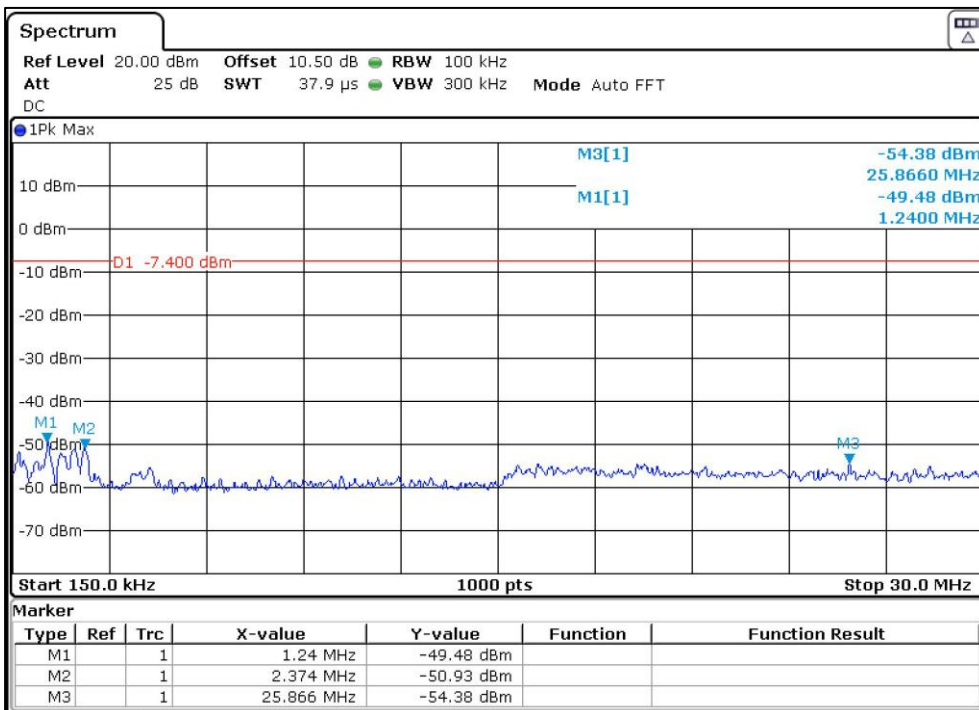
Modulation: 802.11n_20MHz

Data Rate MCS0



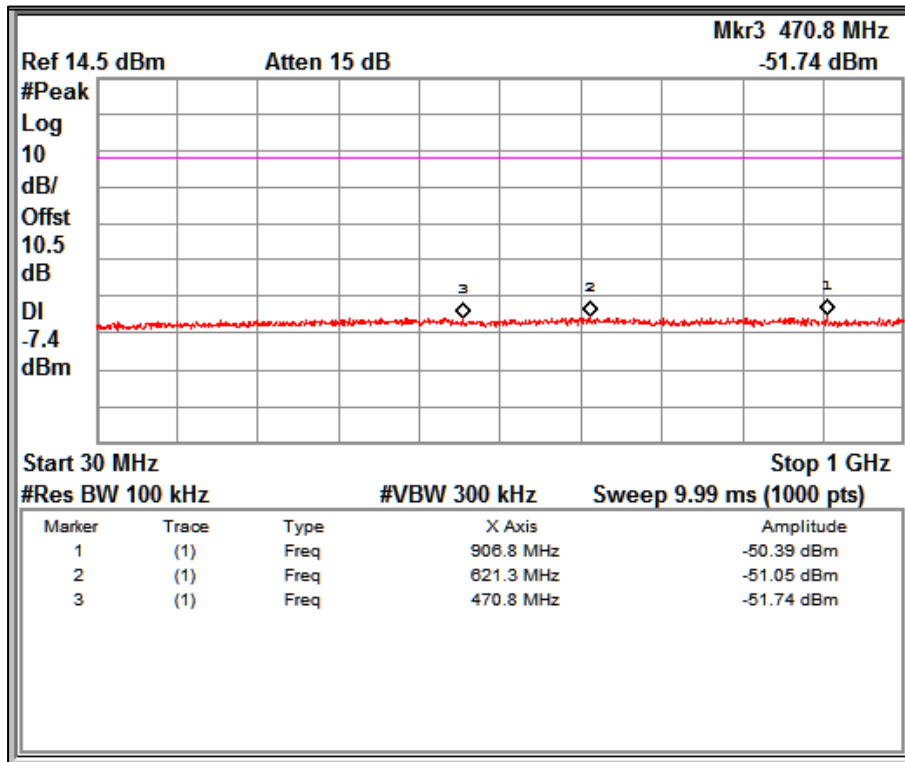
Channel Frequency 2412MHz

Frequency Range 9kHz –150kHz



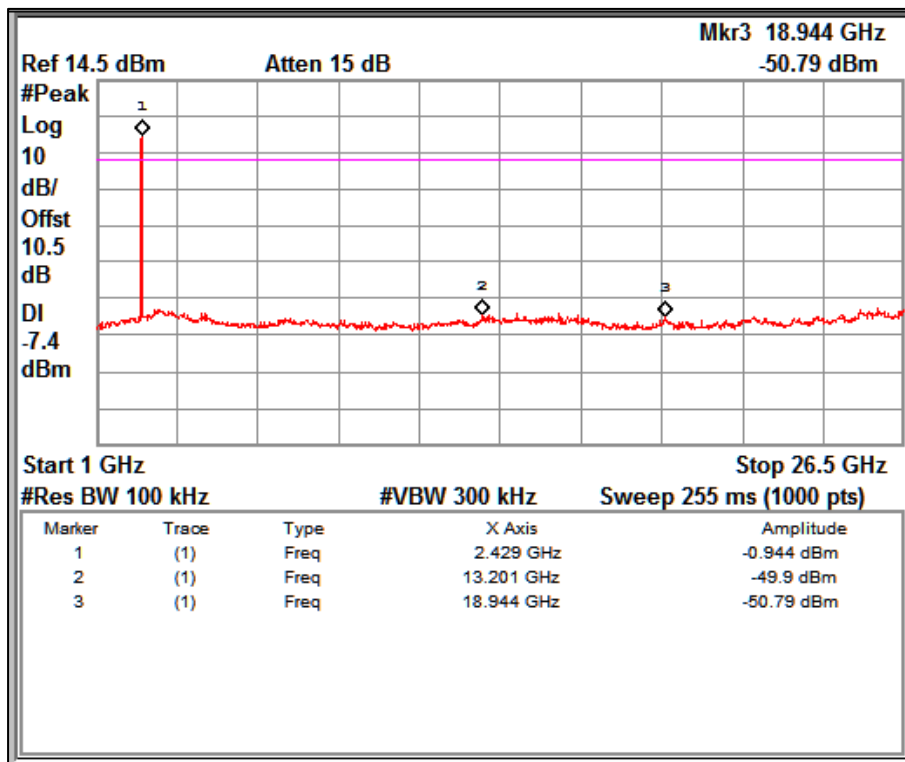
Channel Frequency 2412MHz

Frequency Range 150kHz –30MHz



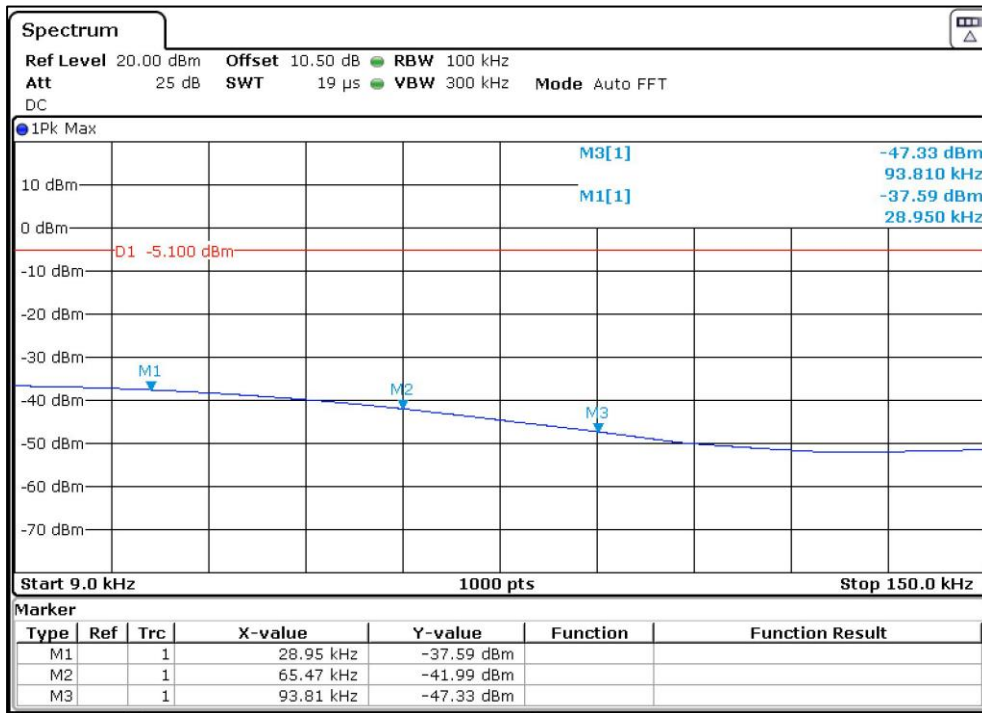
Channel Frequency 2412MHz

Frequency Range 30MHz –1GHz



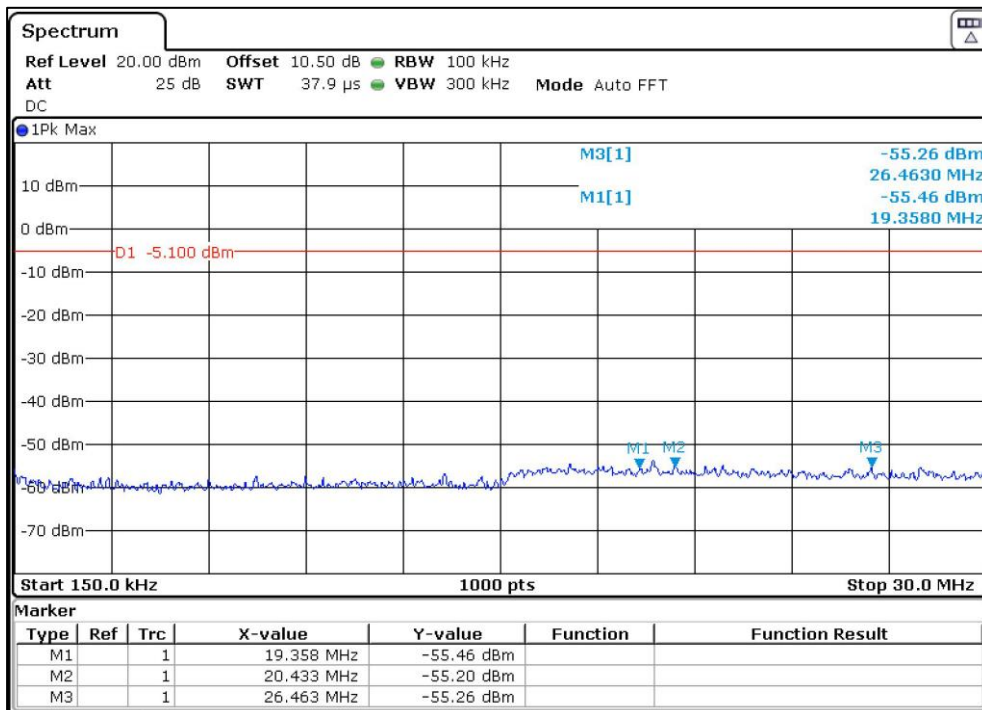
Channel Frequency 2412MHz

Frequency Range 1GHz – 26.5GHz



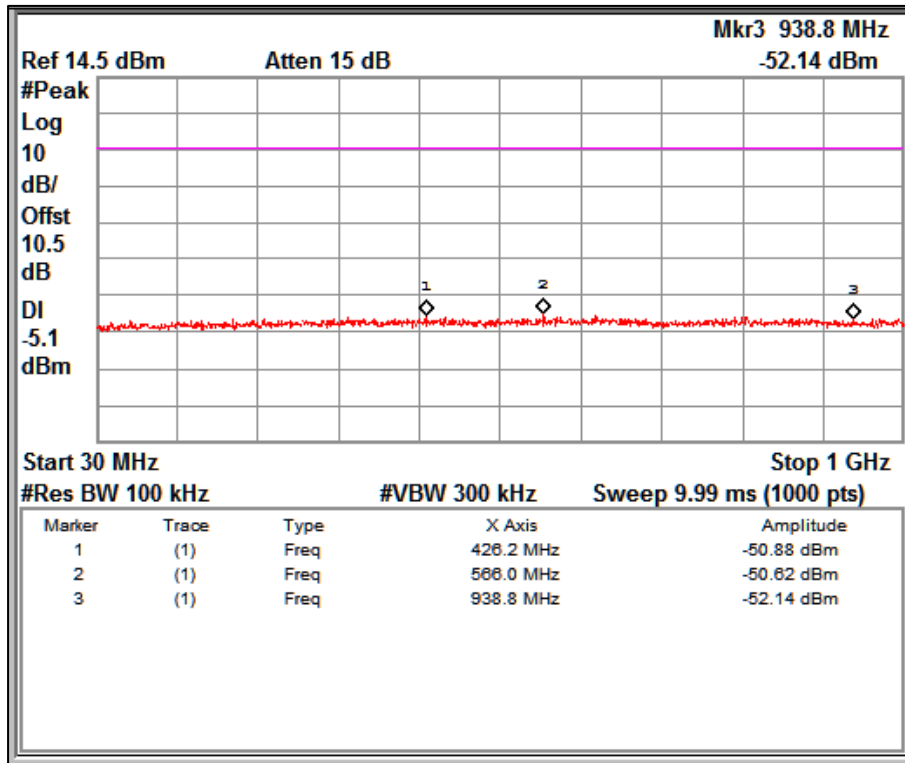
Channel Frequency 2437MHz

Frequency Range 9kHz –150kHz



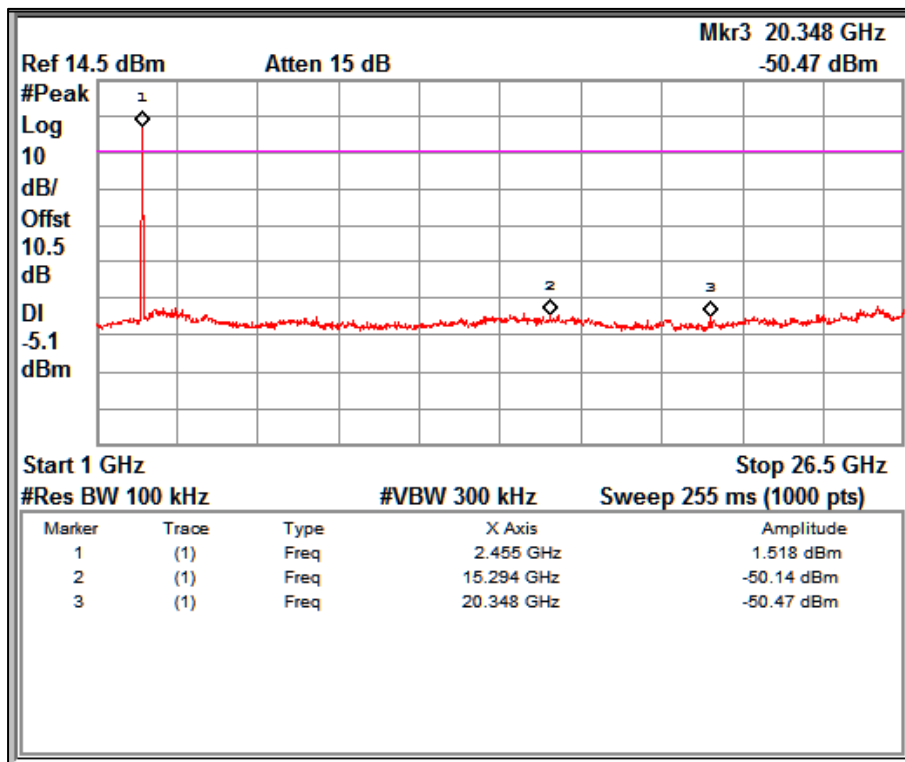
Channel Frequency 2437MHz

Frequency Range 150kHz –30MHz



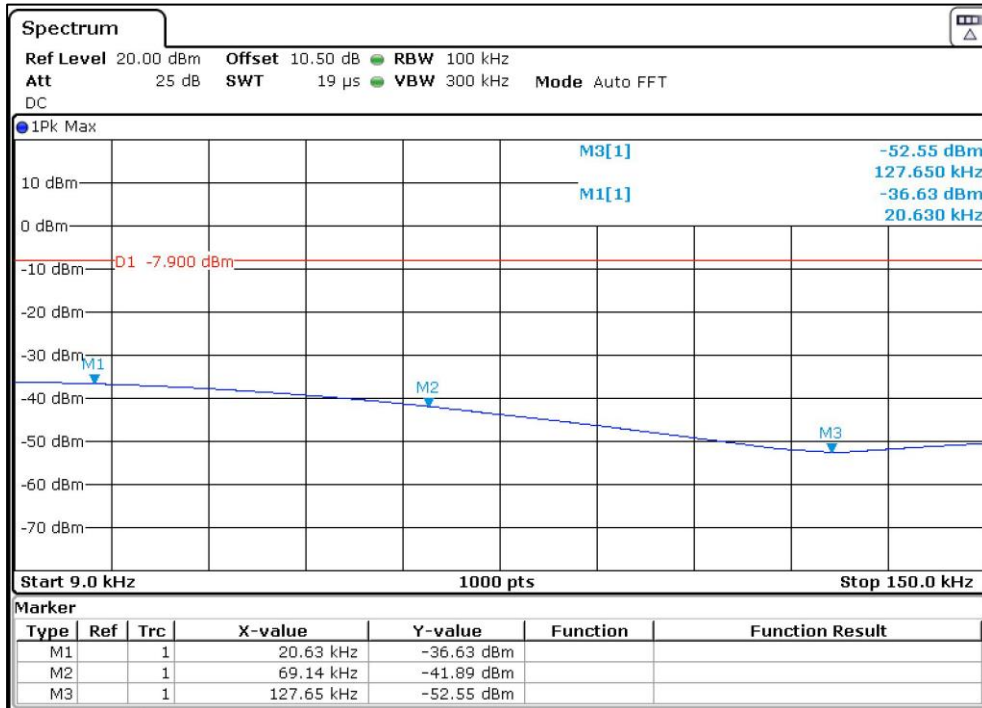
Channel Frequency 2437MHz

Frequency Range 30MHz –1GHz



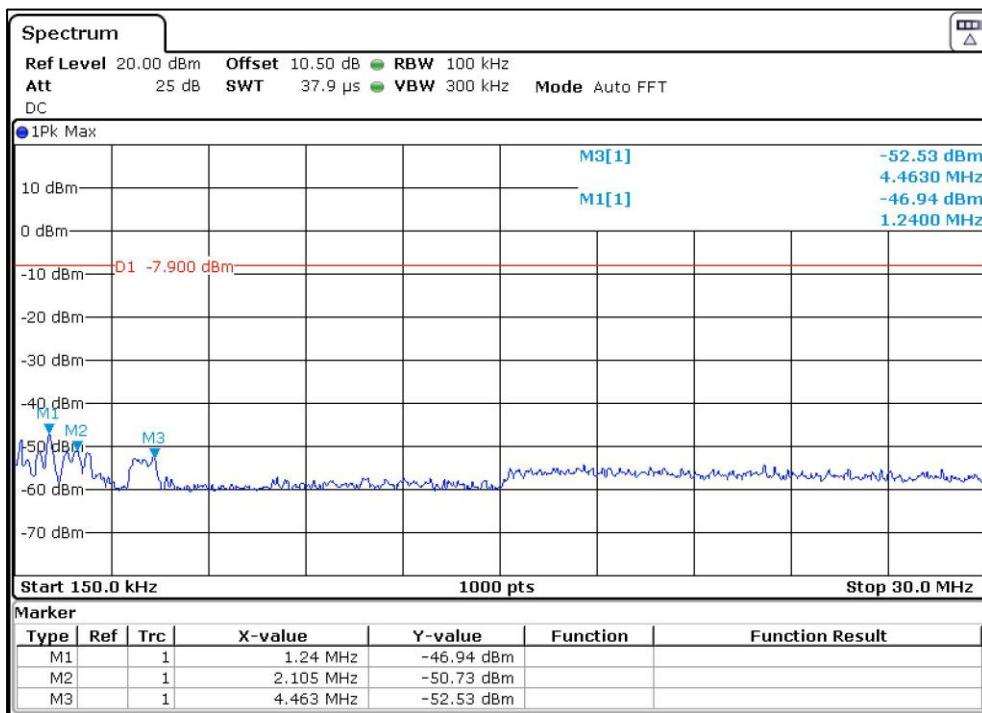
Channel Frequency 2437MHz

Frequency Range 1GHz – 26.5GHz



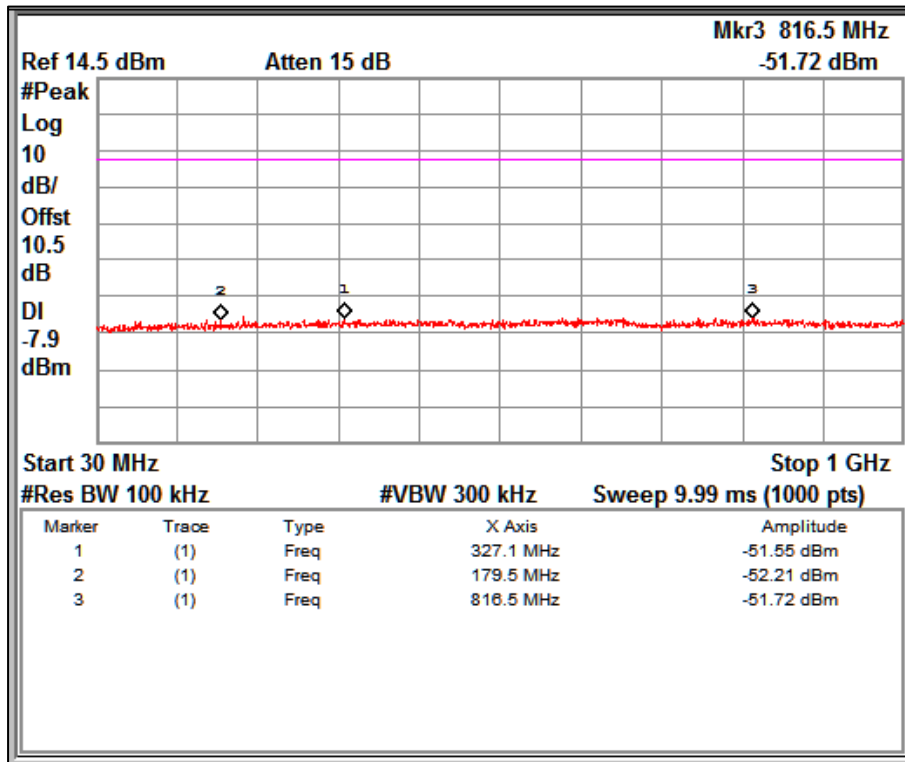
Channel Frequency 2462MHz

Frequency Range 9kHz –150kHz



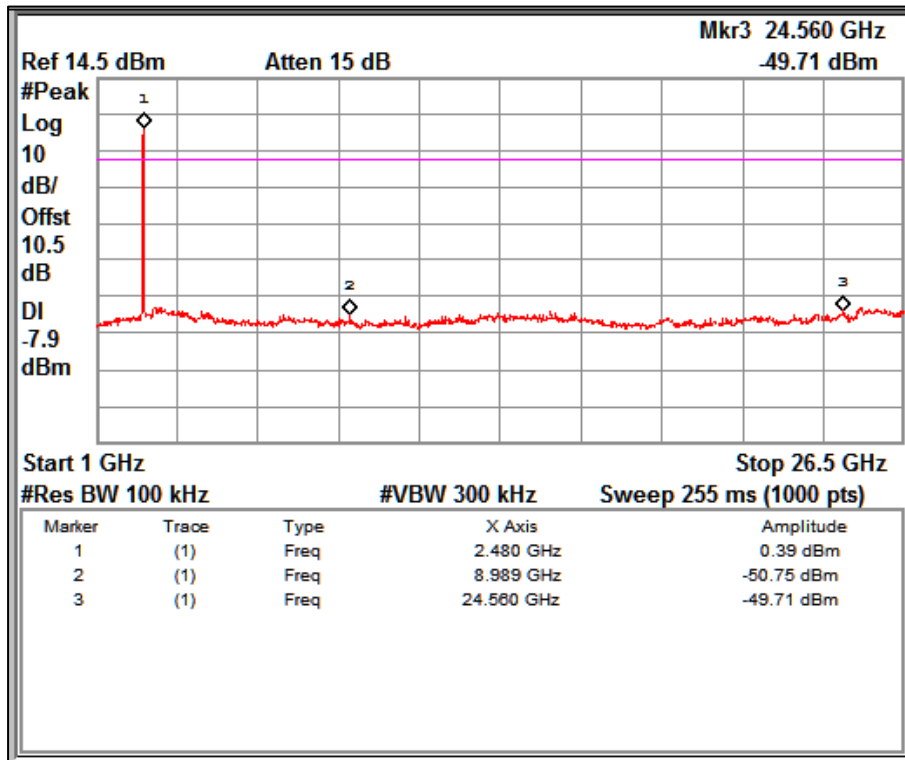
Channel Frequency 2462MHz

Frequency Range 150kHz –30MHz



Channel Frequency 2462MHz

Frequency Range 30MHz –1GHz

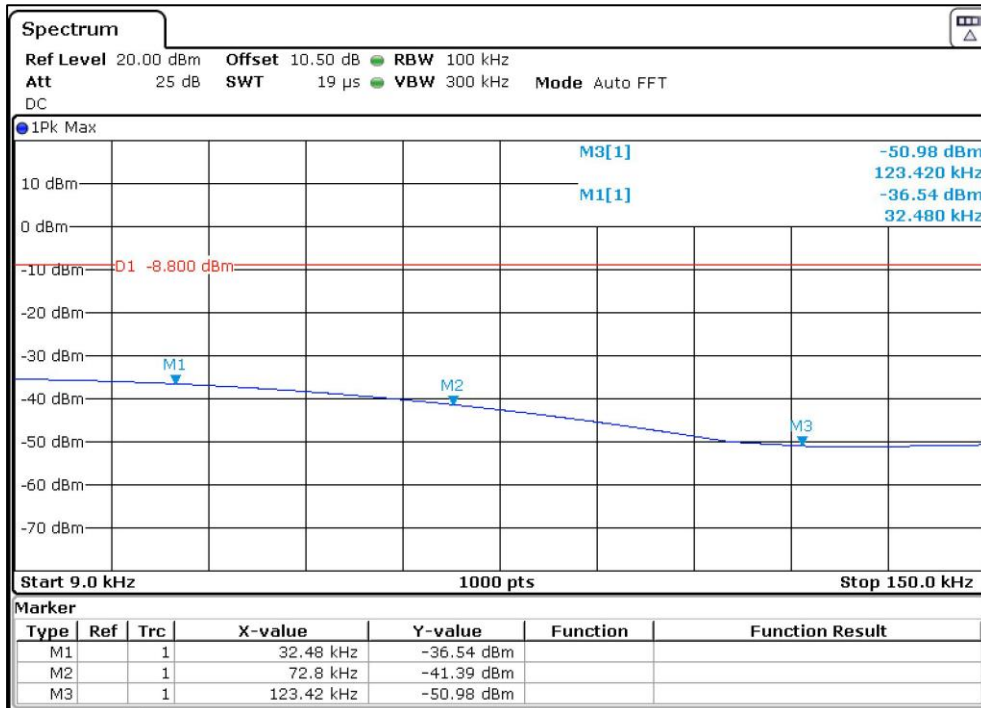


Channel Frequency 2462MHz

Frequency Range 1GHz – 26.5GHz

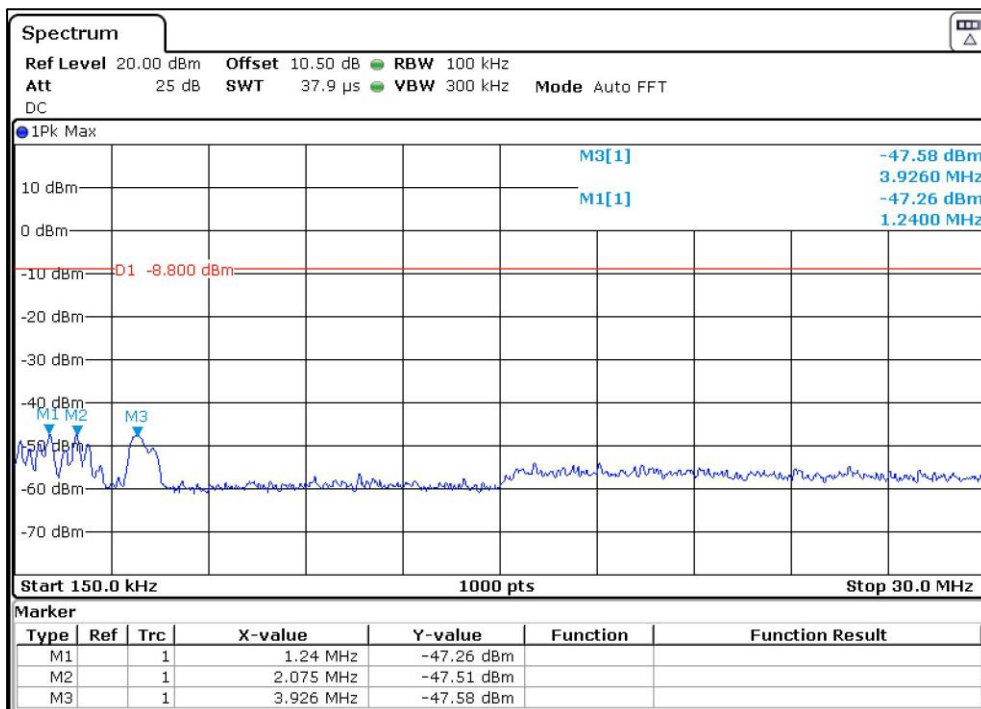
Modulation: 802.11n_20MHz

Data Rate MCS7



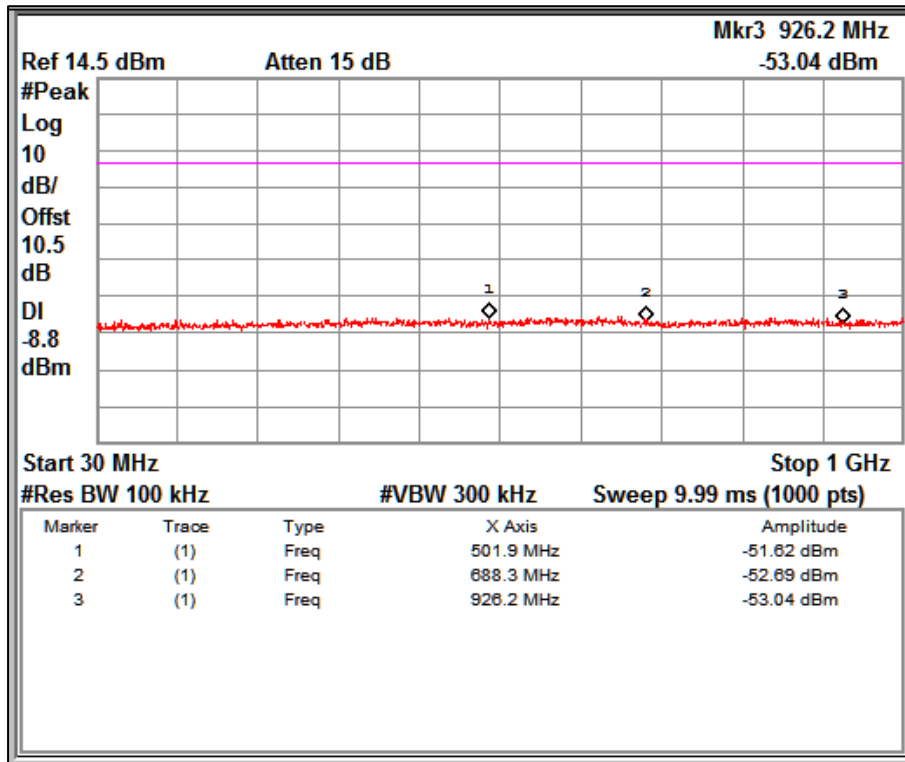
Channel Frequency 2412MHz

Frequency Range 9kHz –150kHz



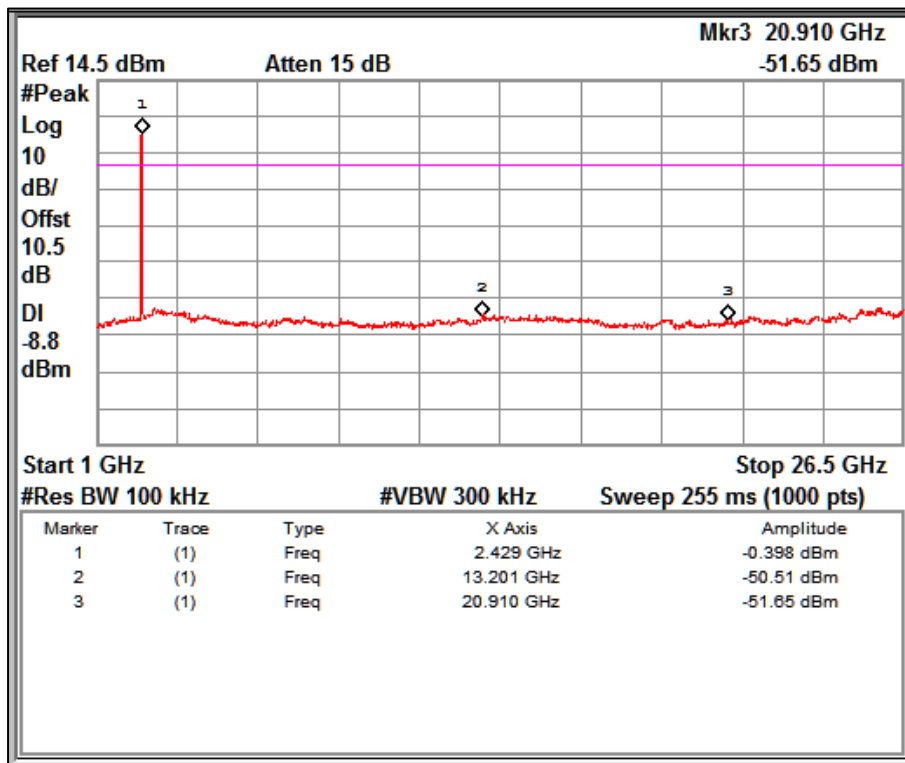
Channel Frequency 2412MHz

Frequency Range 150kHz –30MHz



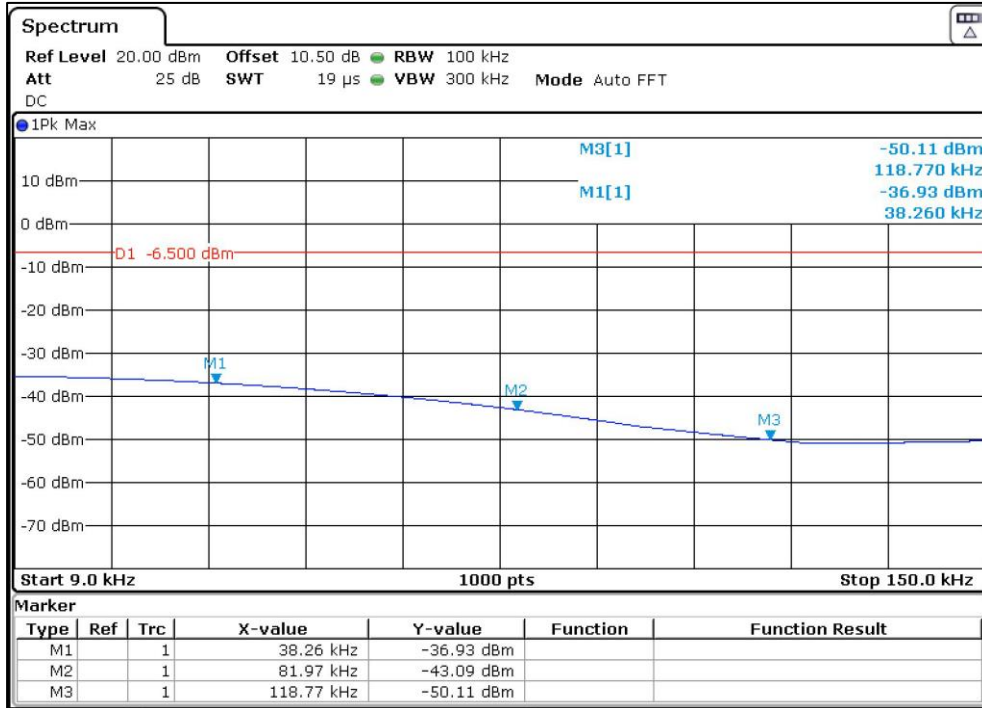
Channel Frequency 2412MHz

Frequency Range 30MHz –1GHz



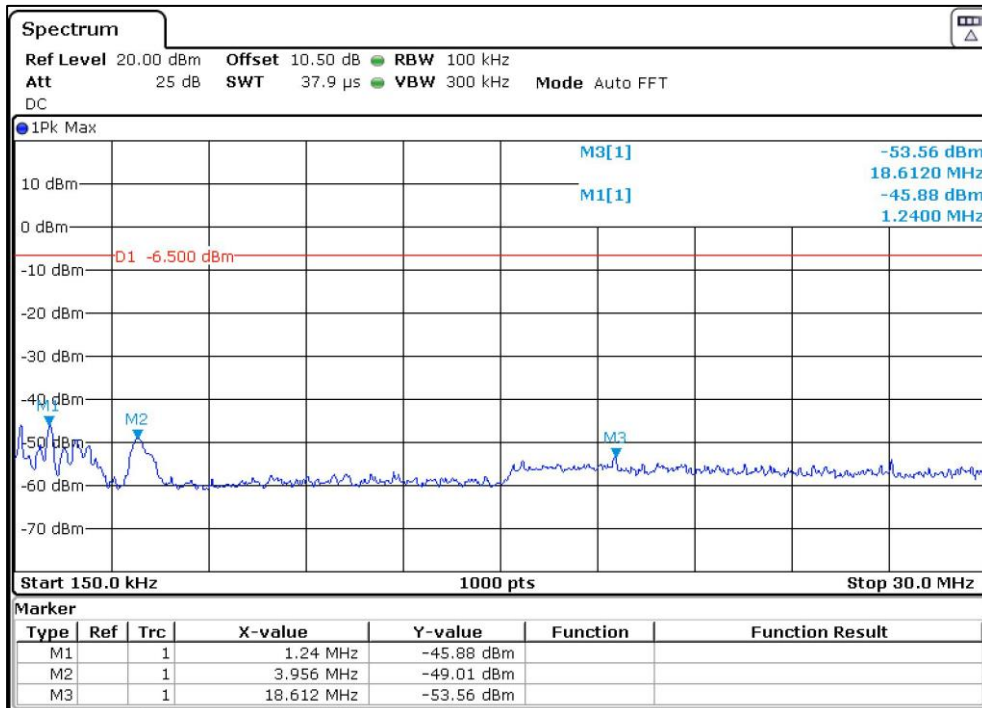
Channel Frequency 2412MHz

Frequency Range 1GHz – 26.5GHz



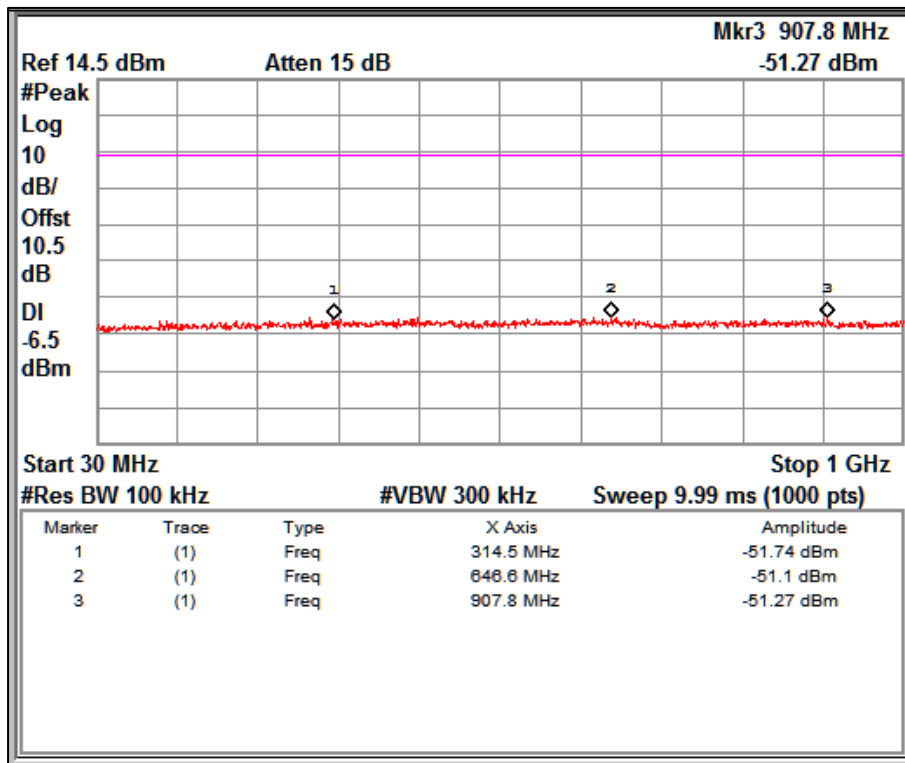
Channel Frequency 2437MHz

Frequency Range 9kHz –150kHz



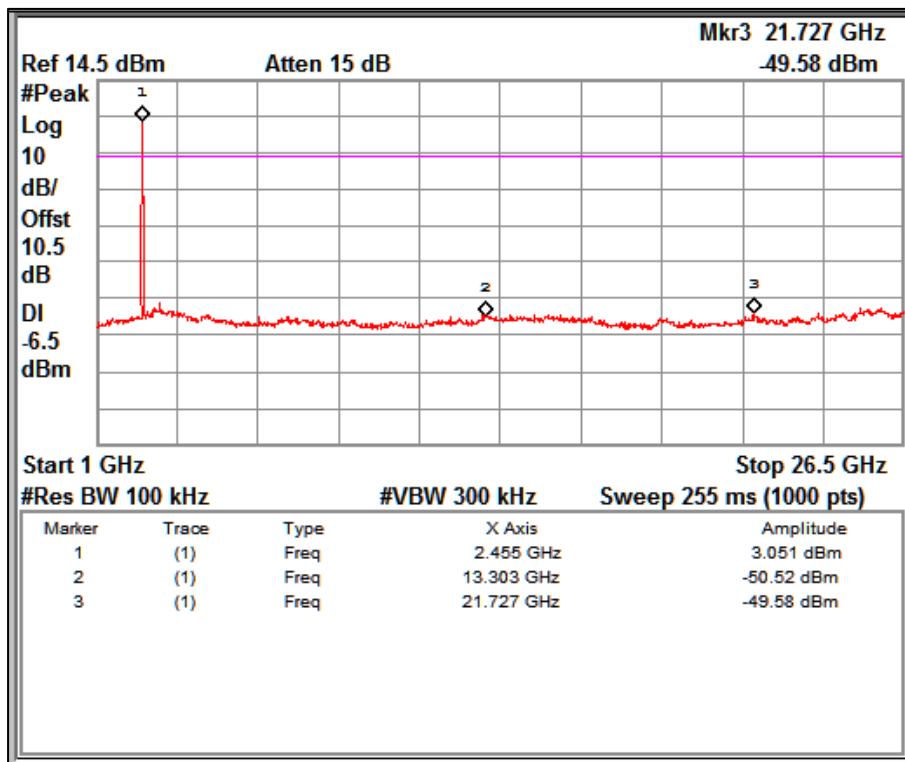
Channel Frequency 2437MHz

Frequency Range 150kHz –30MHz



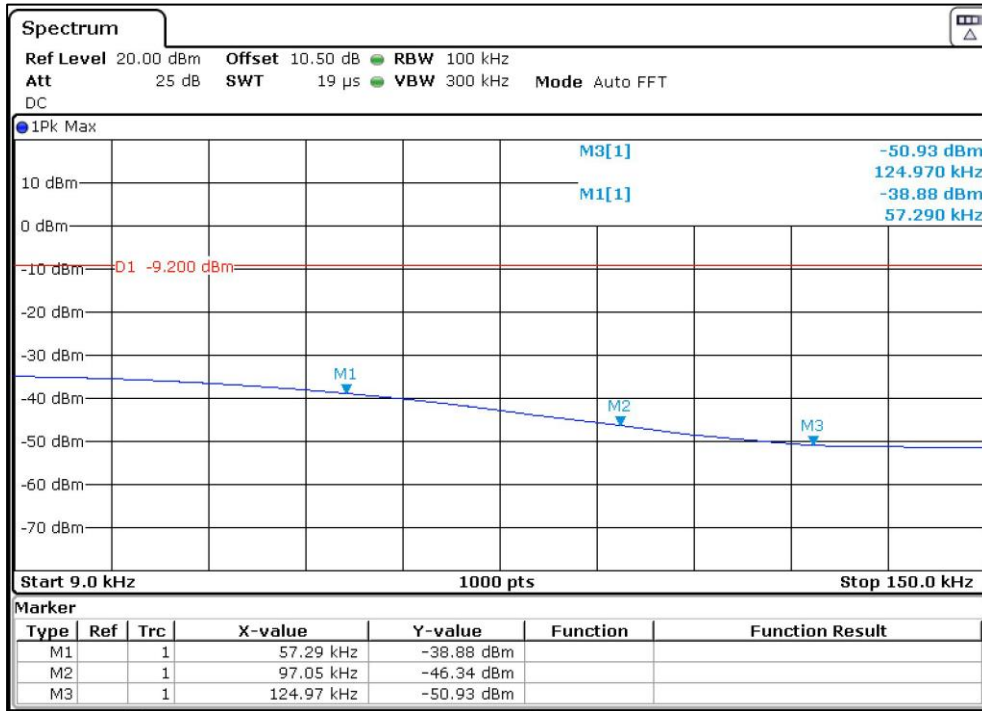
Channel Frequency 2437MHz

Frequency Range 30MHz –1GHz



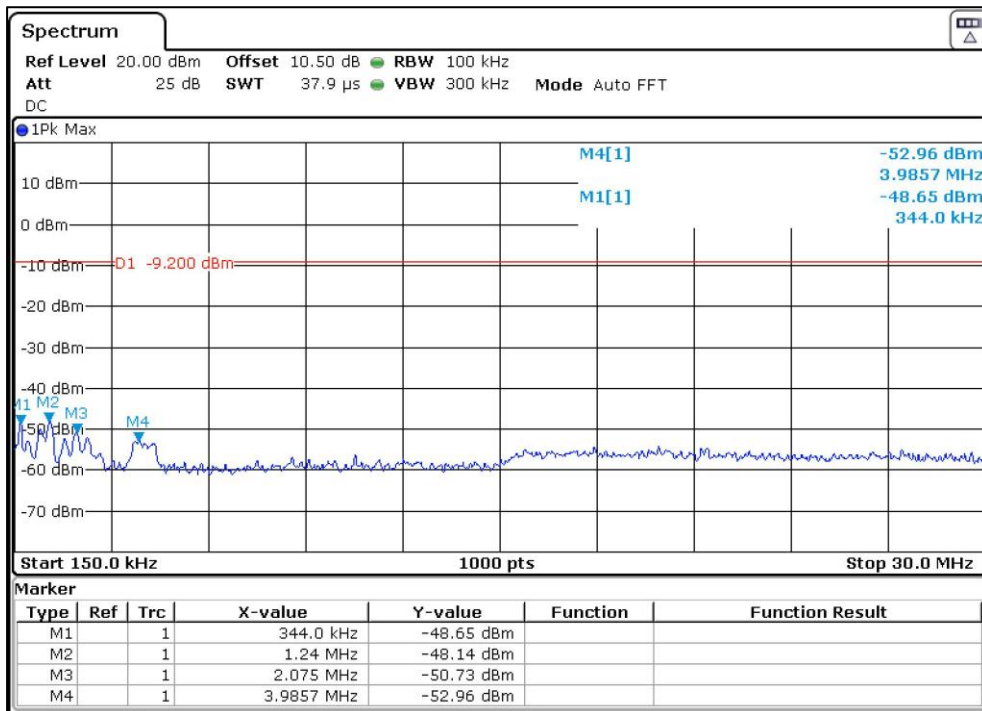
Channel Frequency 2437MHz

Frequency Range 1GHz – 26.5GHz



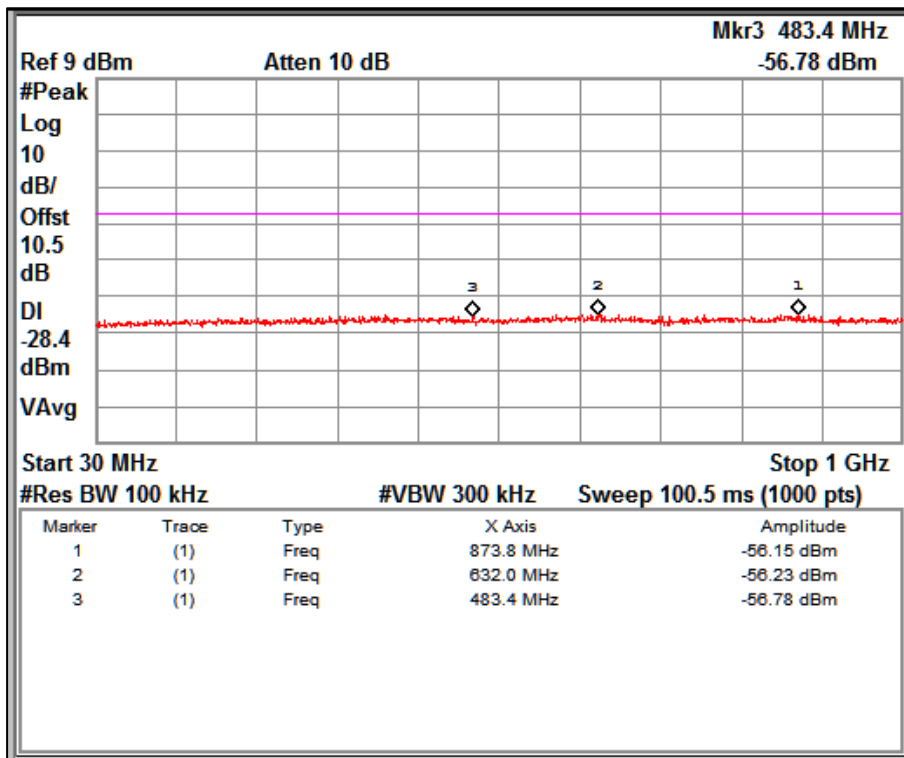
Channel Frequency 2462MHz

Frequency Range 9kHz –150kHz



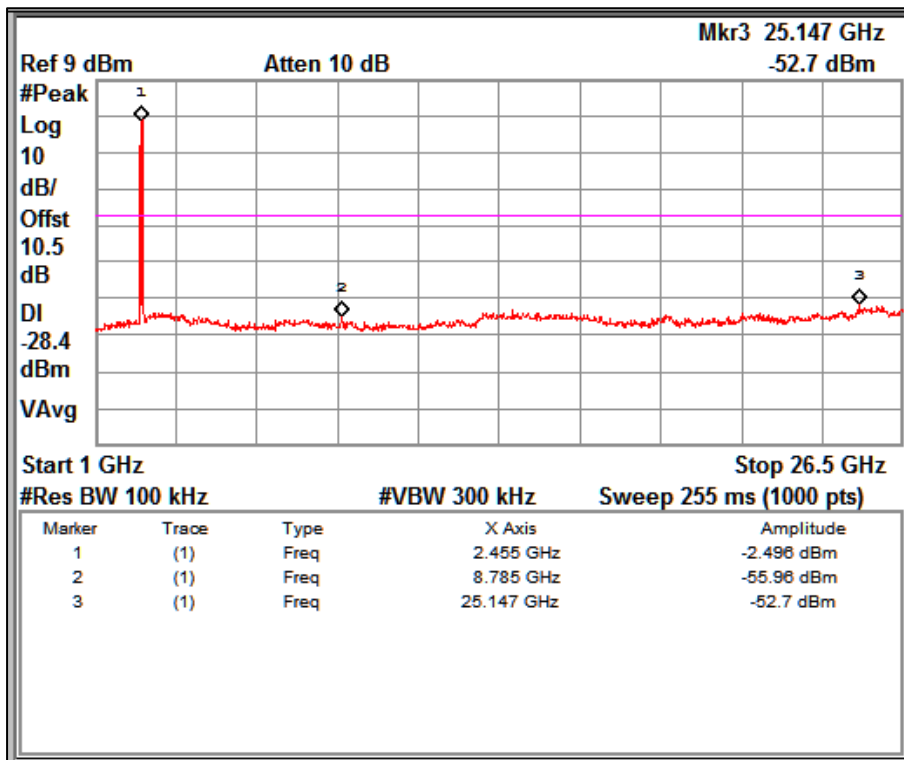
Channel Frequency 2462MHz

Frequency Range 150kHz –30MHz



Channel Frequency 2462MHz

Frequency Range 30MHz –1GHz

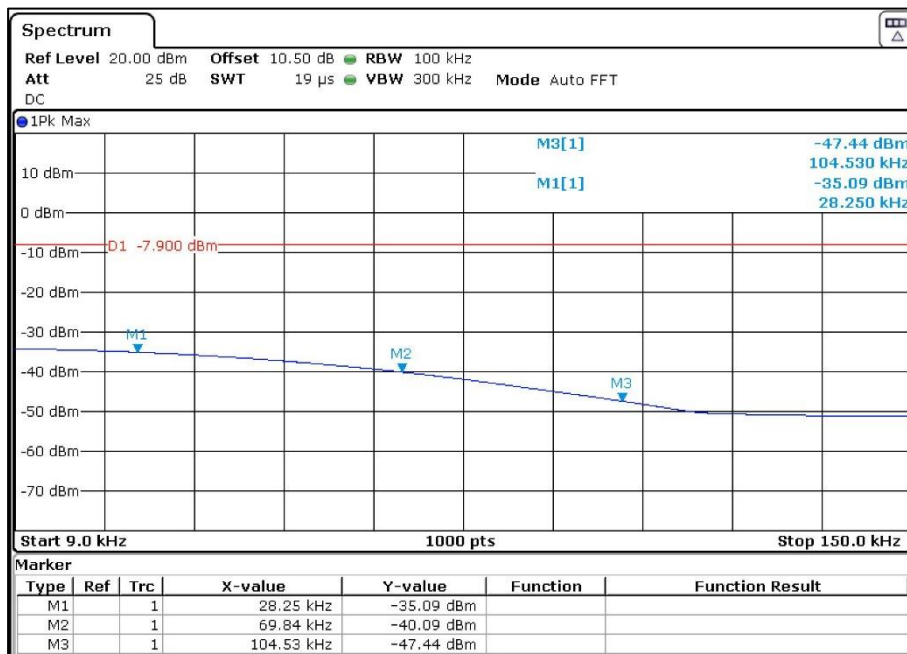


Channel Frequency 2462MHz

Frequency Range 1GHz – 26.5GHz

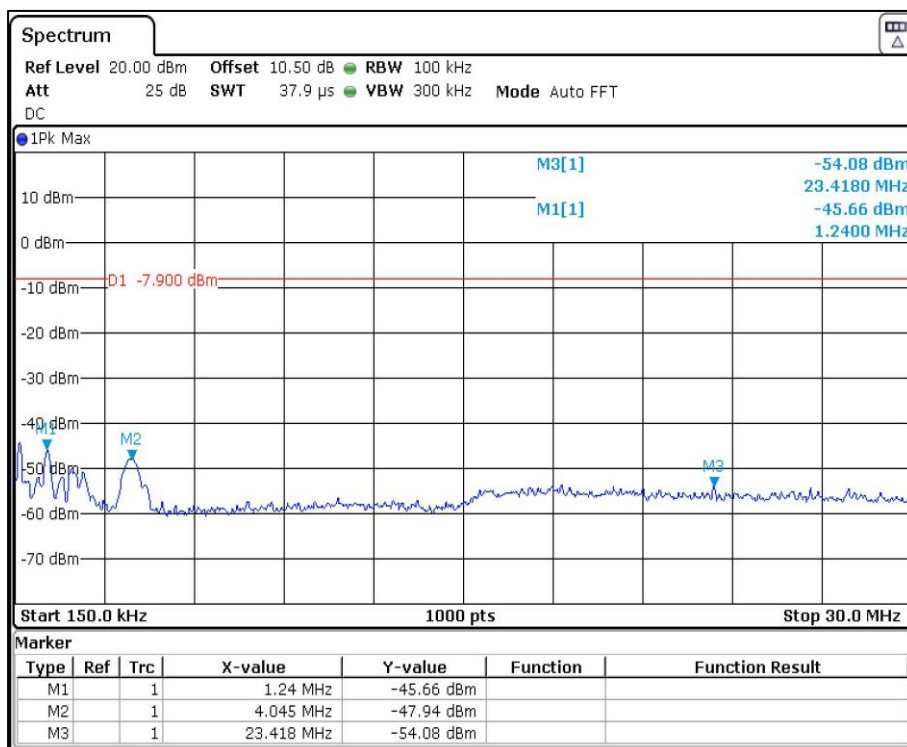
Modulation: 802.11n_40MHz

Data Rate MCS0



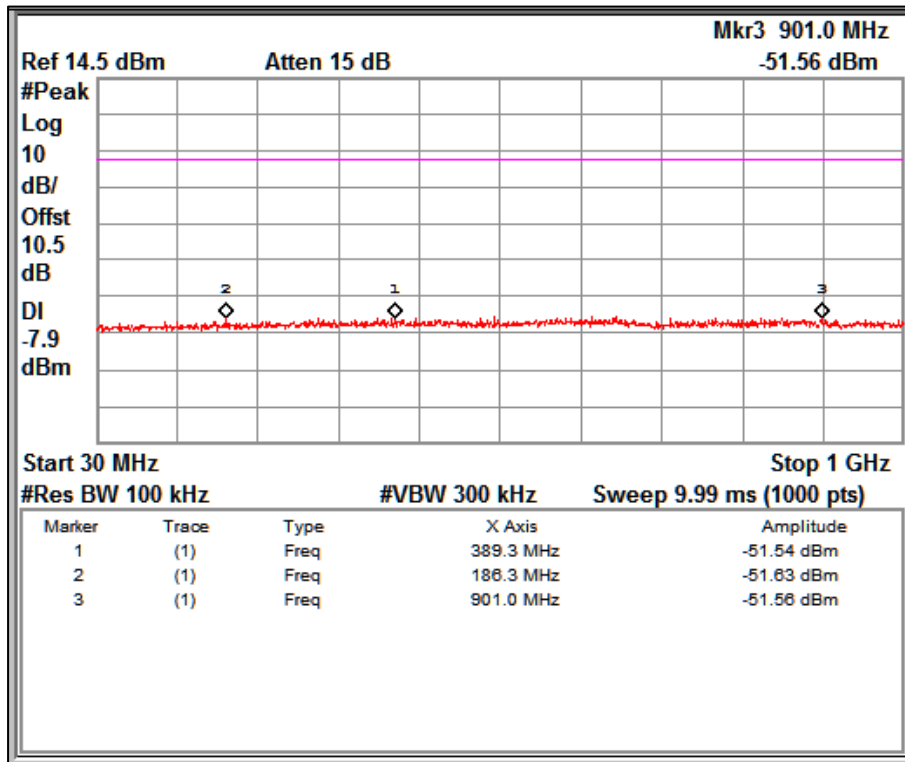
Channel Frequency 2422MHz

Frequency Range 9kHz – 150 kHz



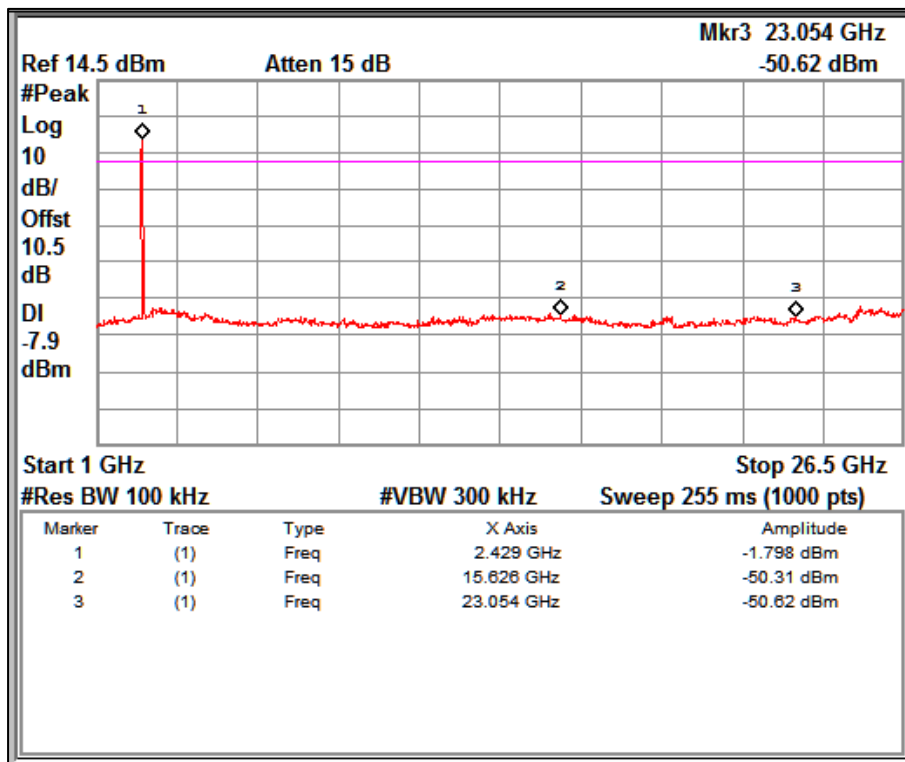
Channel Frequency 2422MHz

Frequency Range 150 kHz – 30 MHz



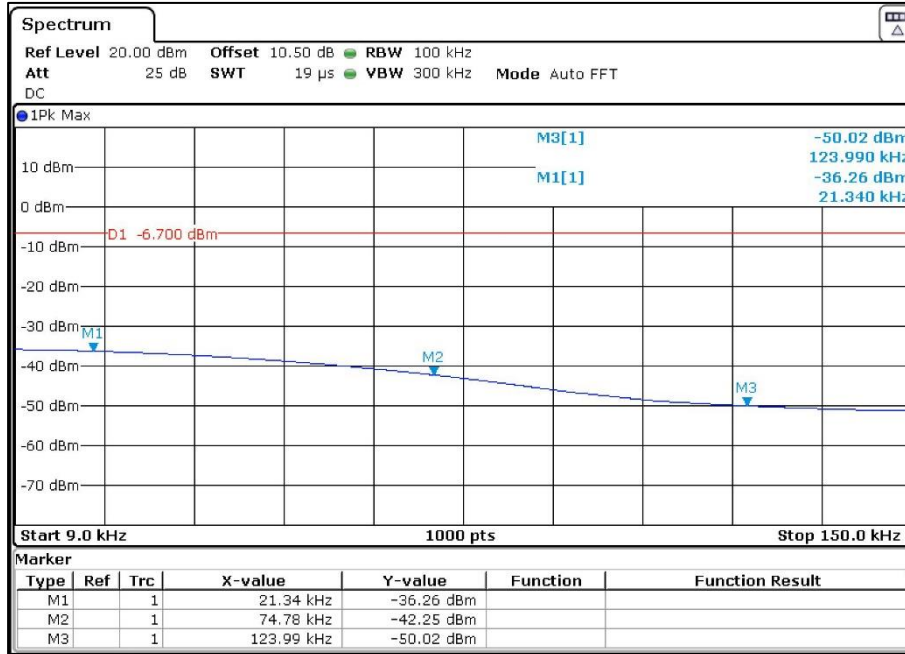
Channel Frequency 2422MHz

Frequency Range 30MHz – 1GHz



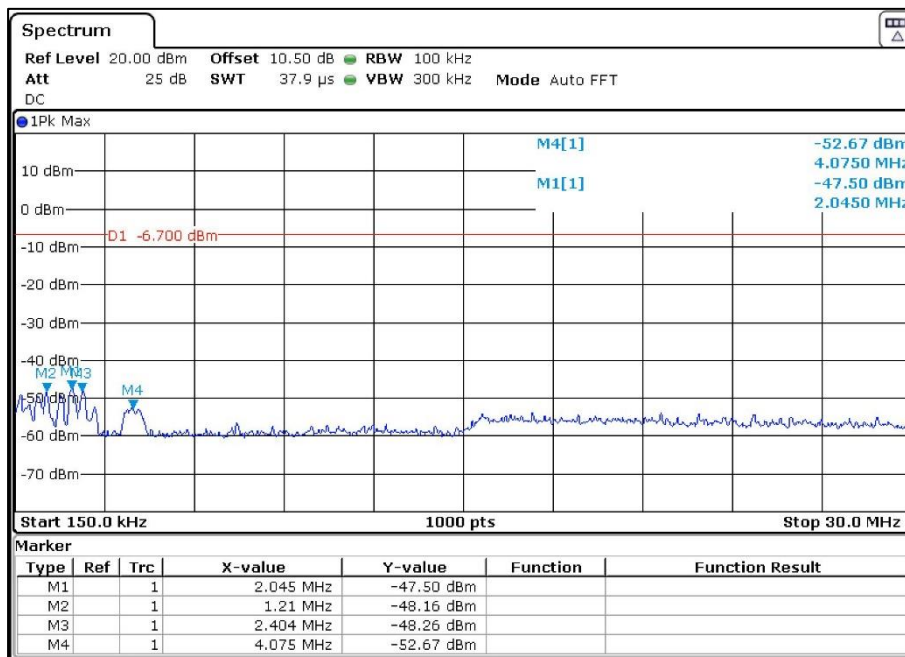
Channel Frequency 2422MHz

Frequency Range 1GHz – 26.5GHz



Channel Frequency 2437MHz

Frequency Range 9kHz – 150 kHz



Channel Frequency 2437MHz

Frequency Range 150 kHz – 30 MHz