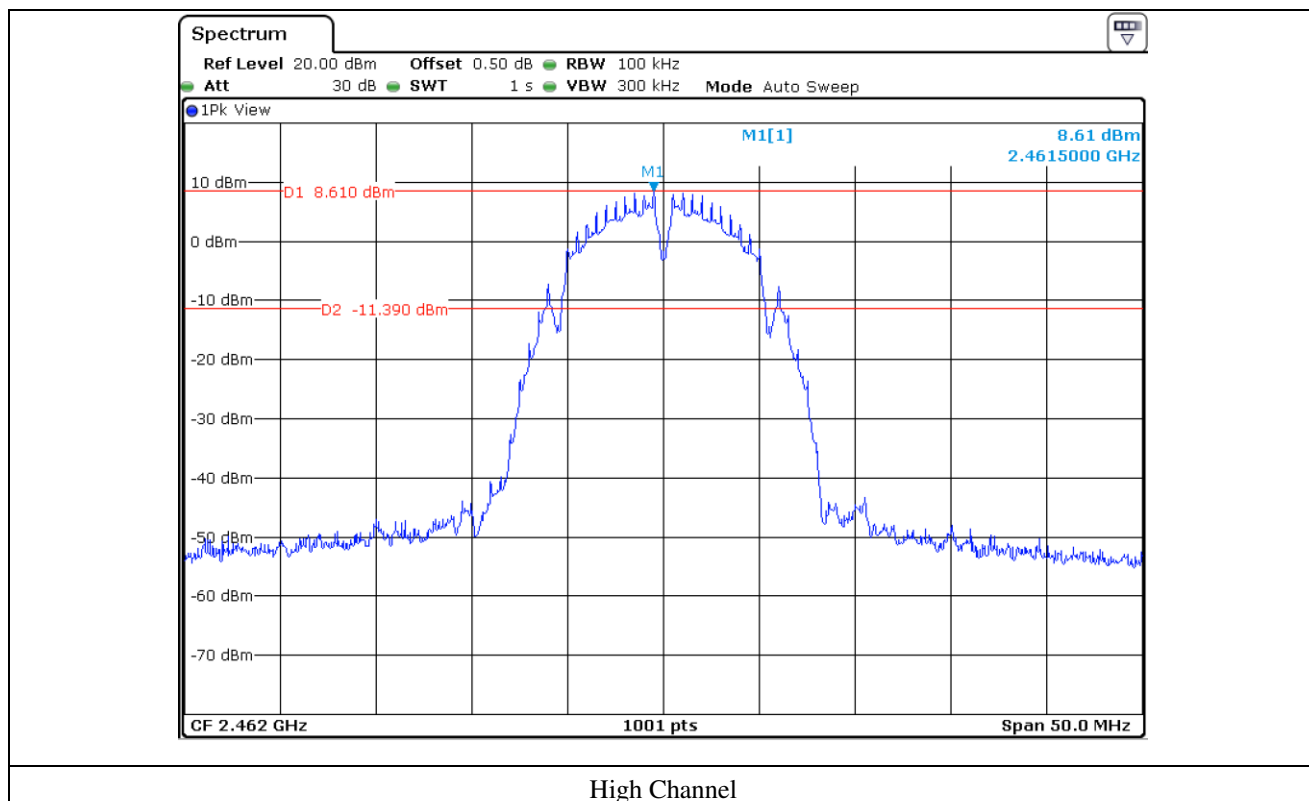
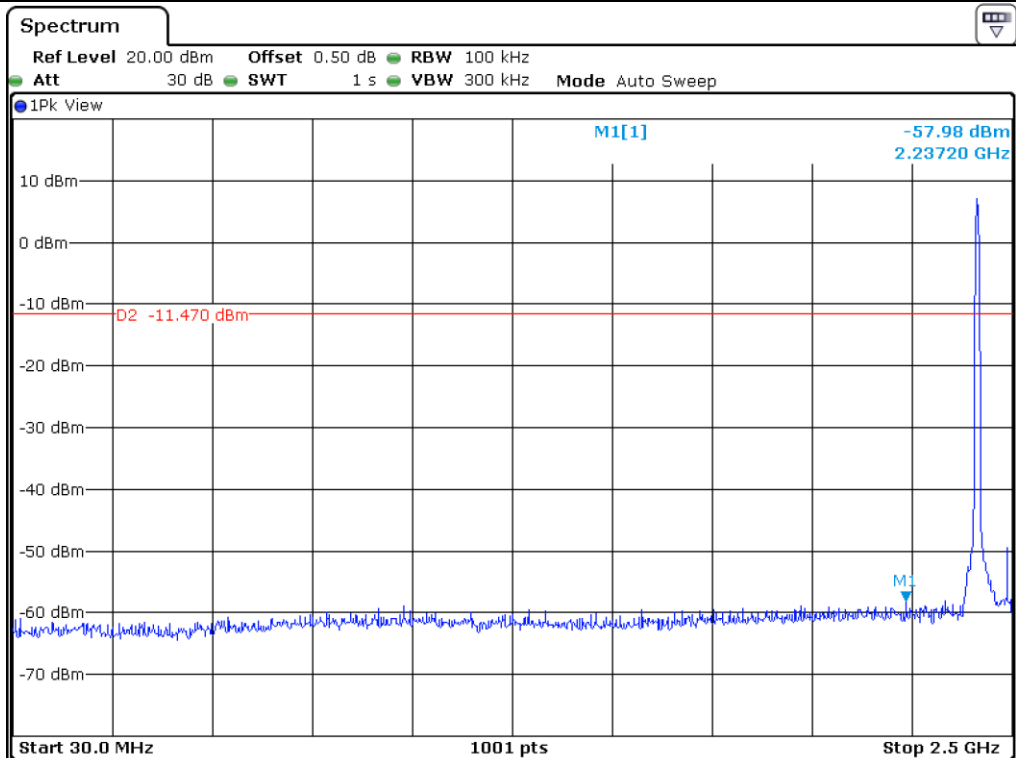
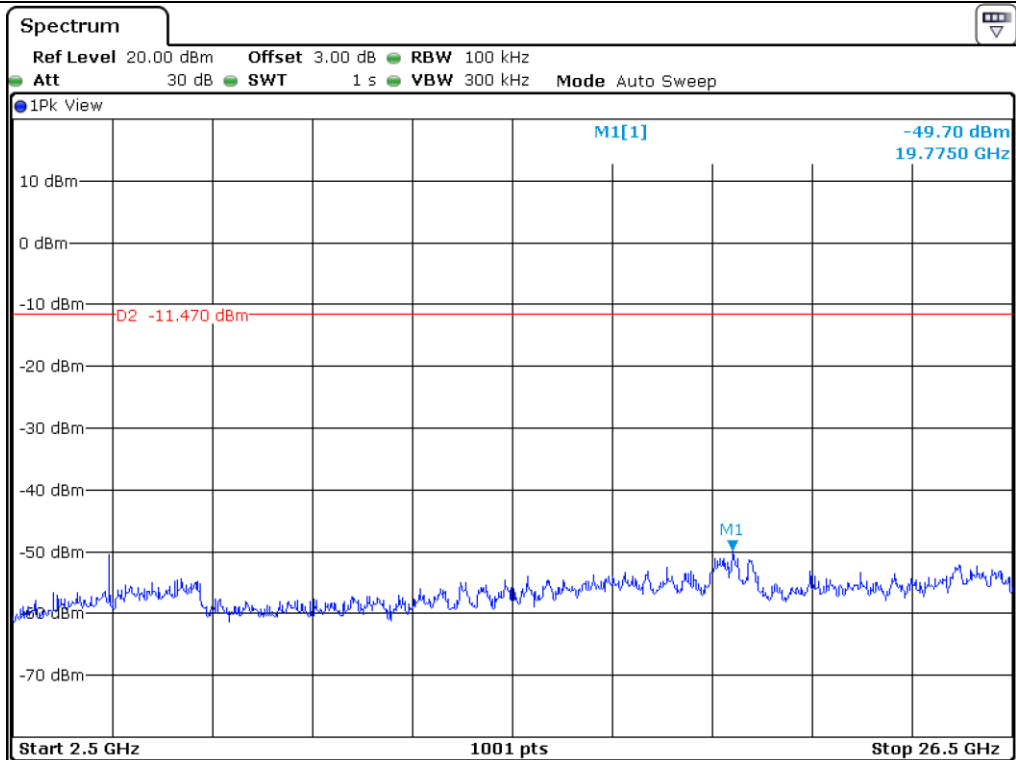


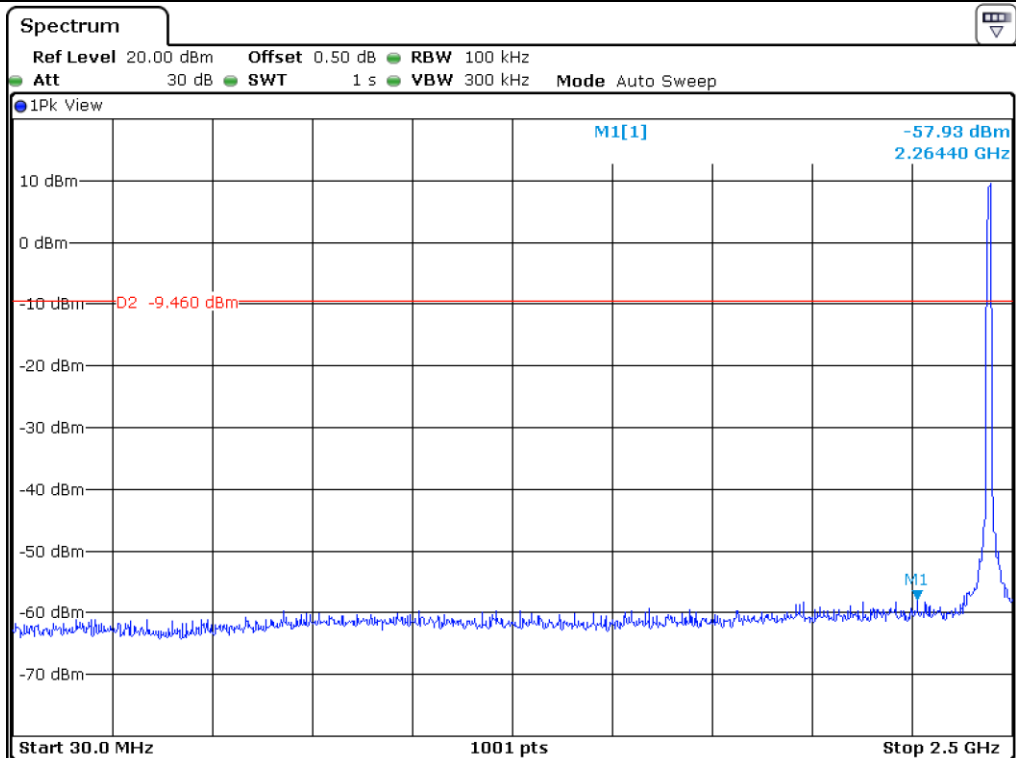




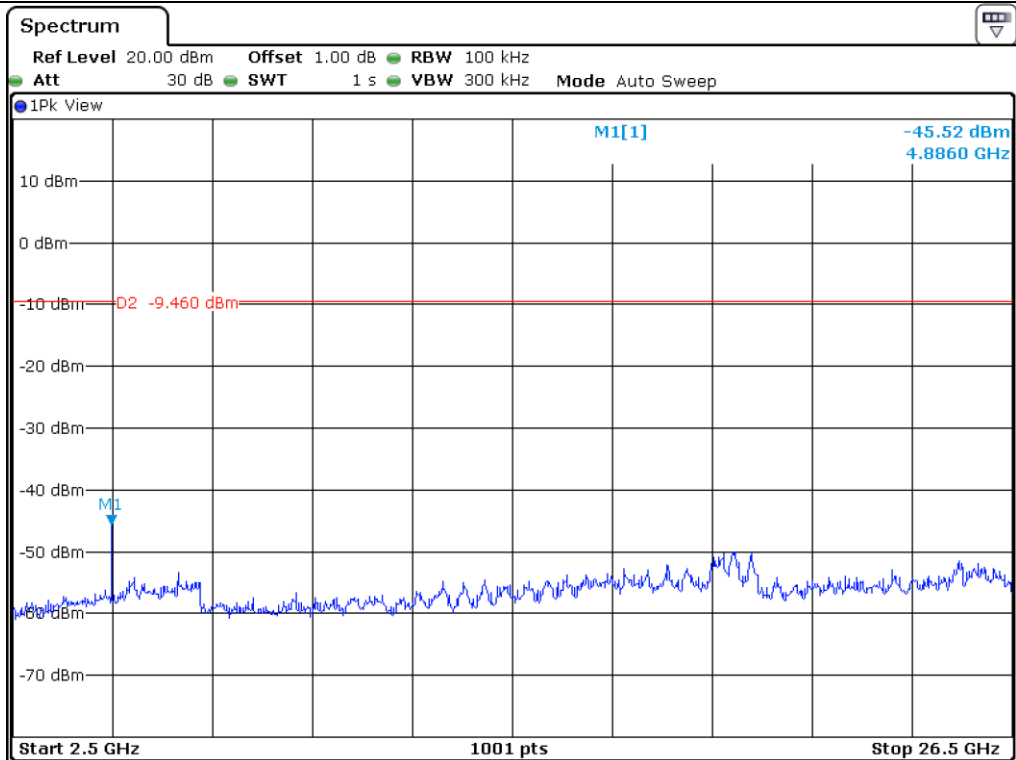
Low Channel



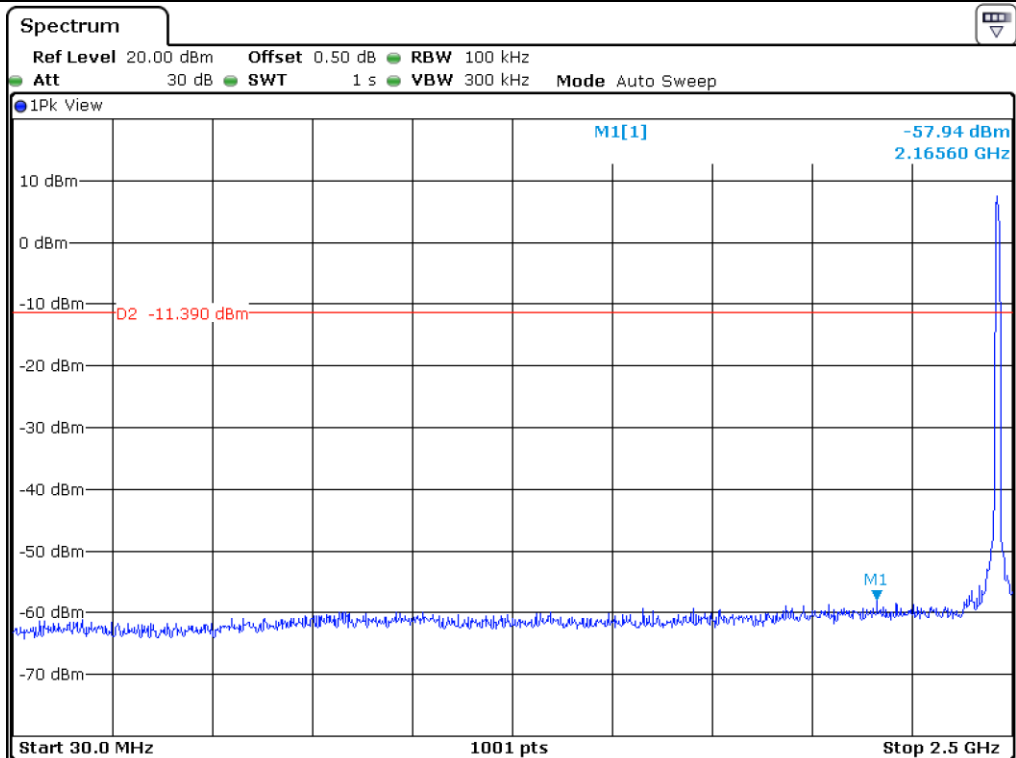
Low Channel



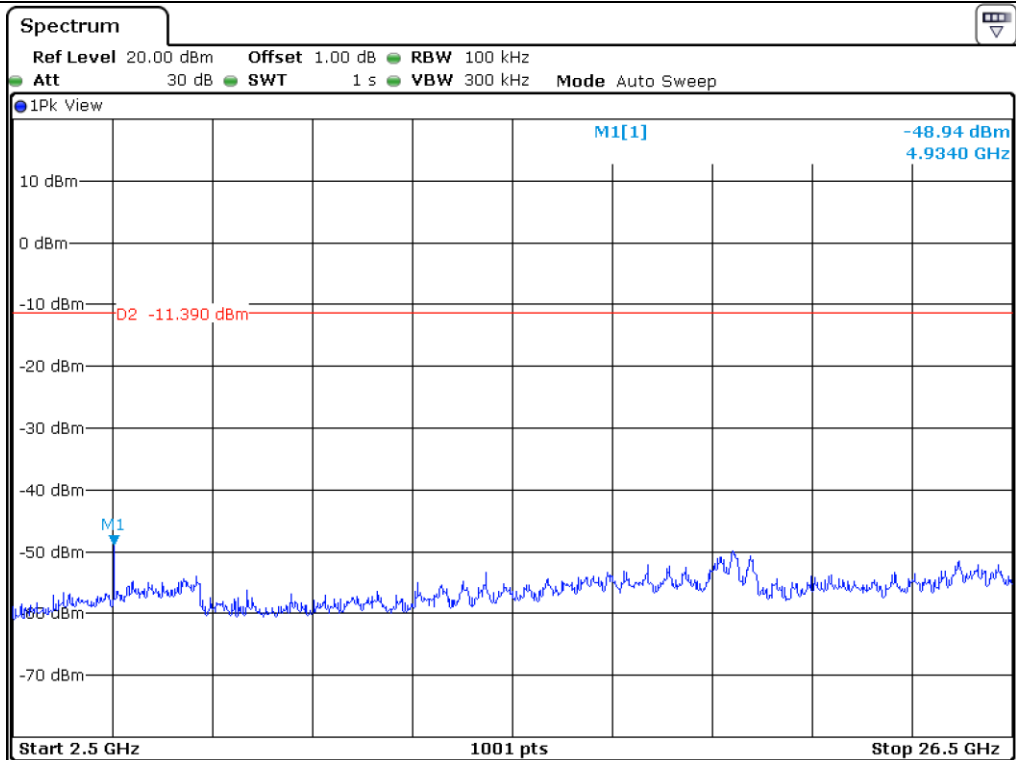
Middle Channel



Middle Channel

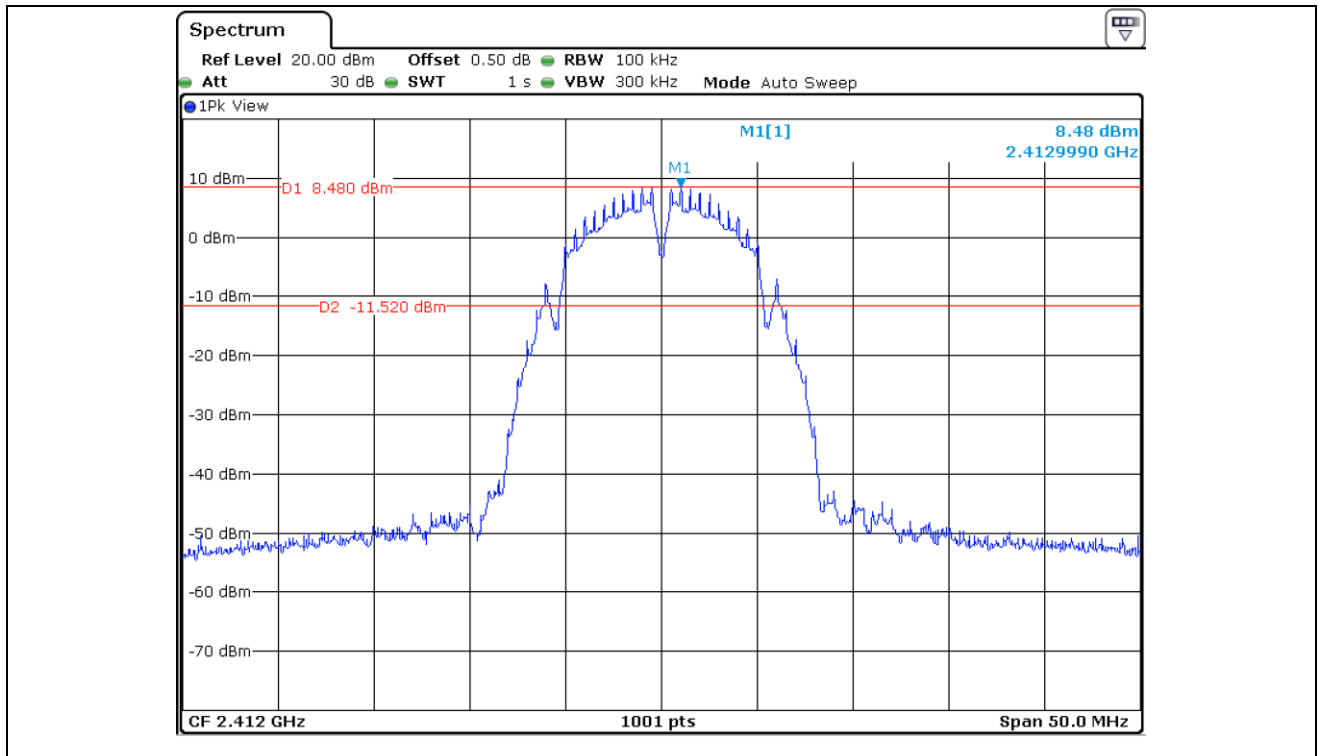


High Channel

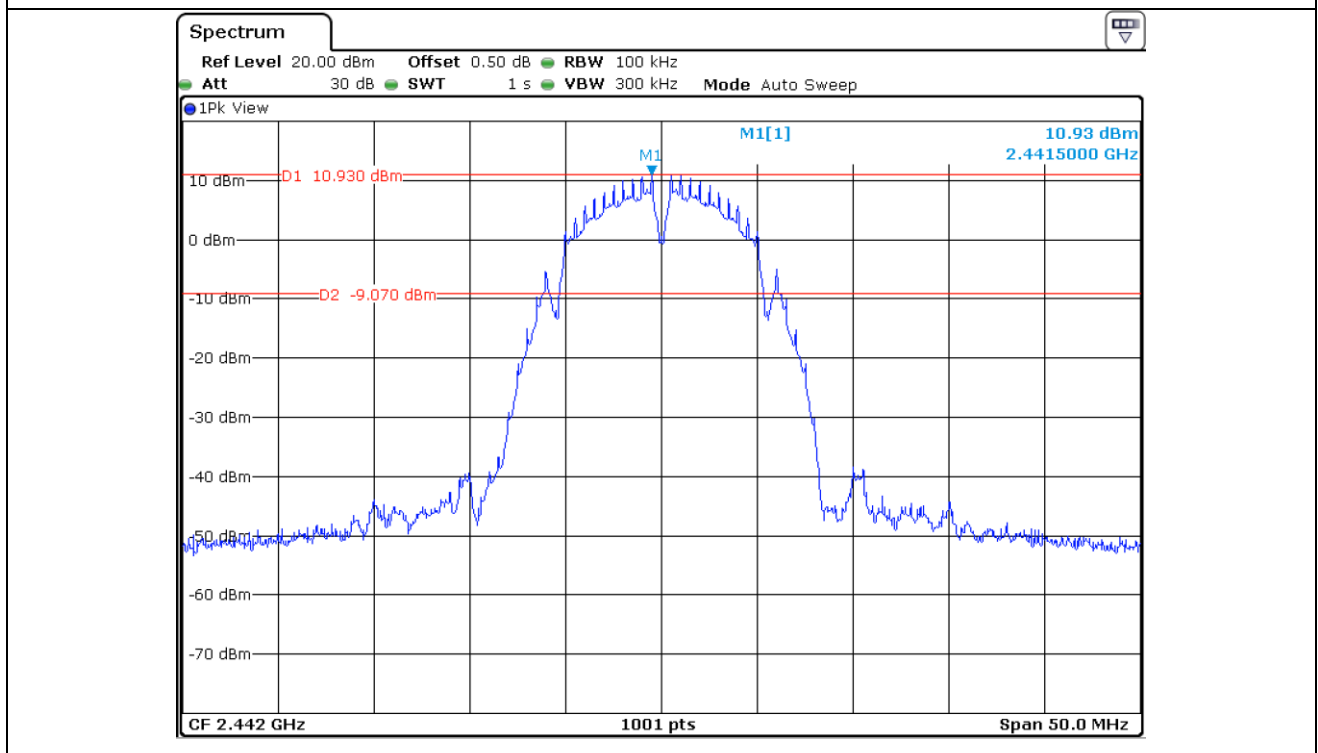


High Channel

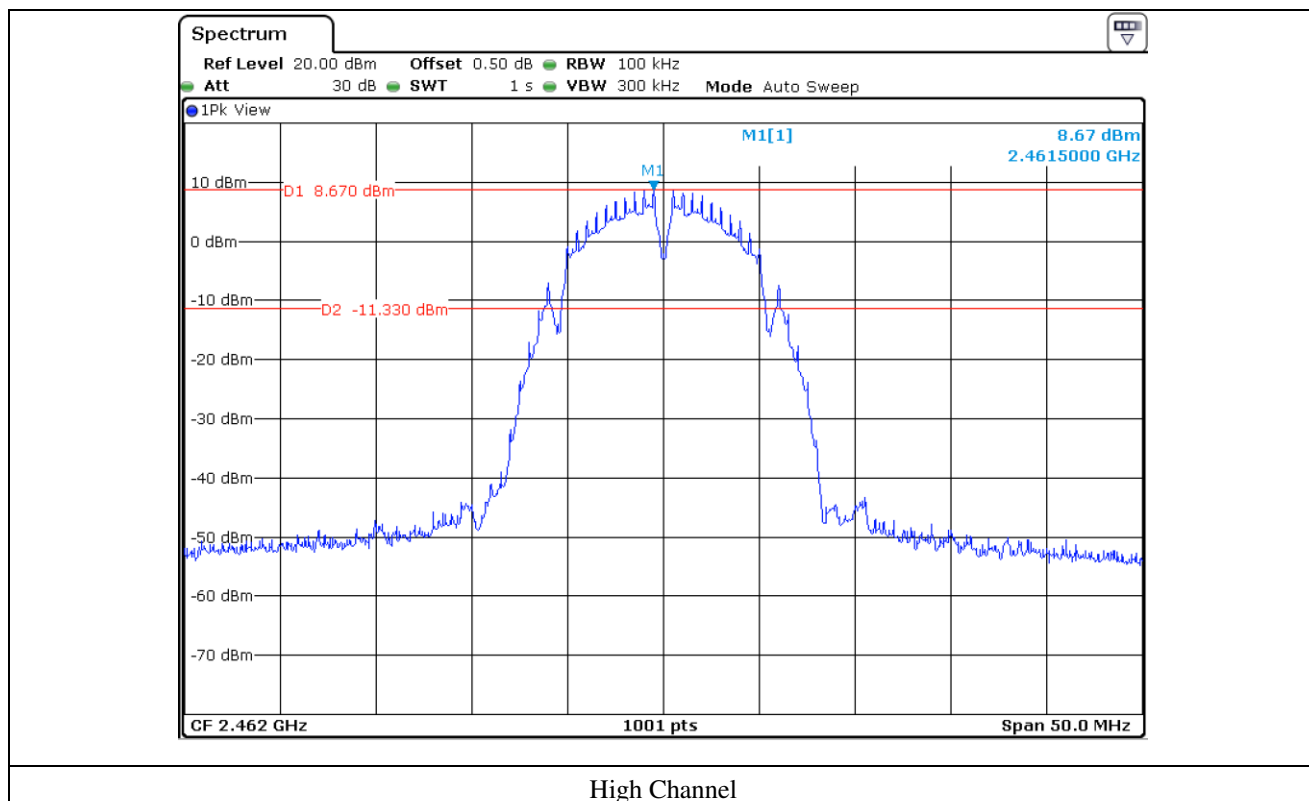
9.5.2.1.4 Test data for Antenna 3

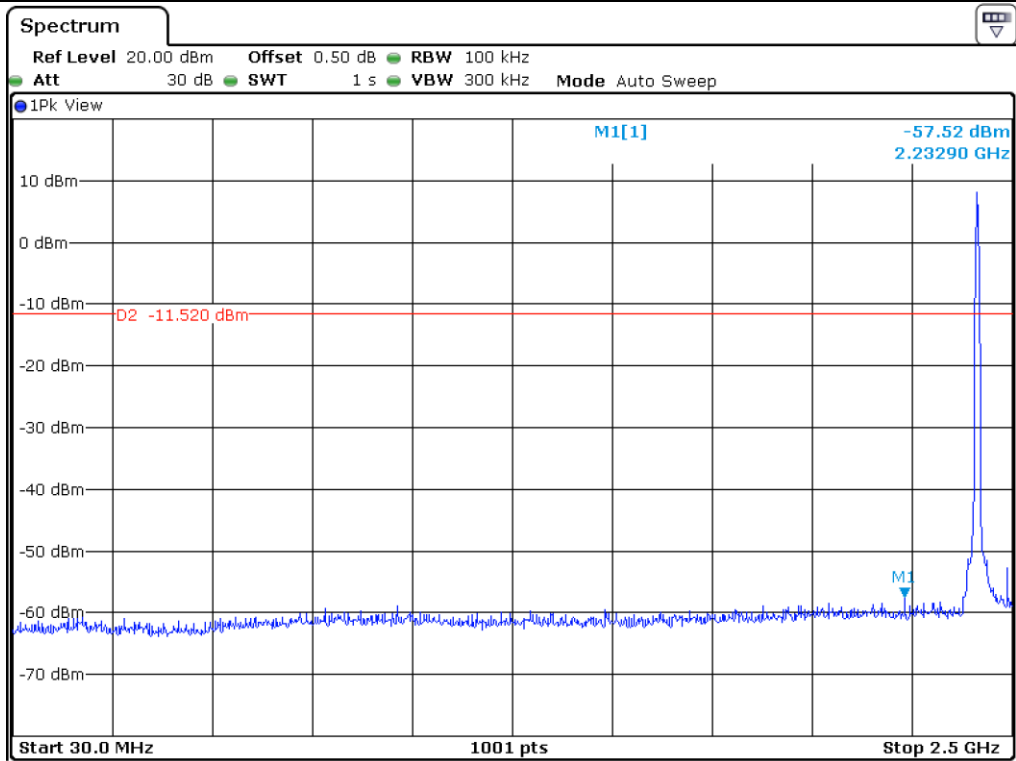


Low Channel

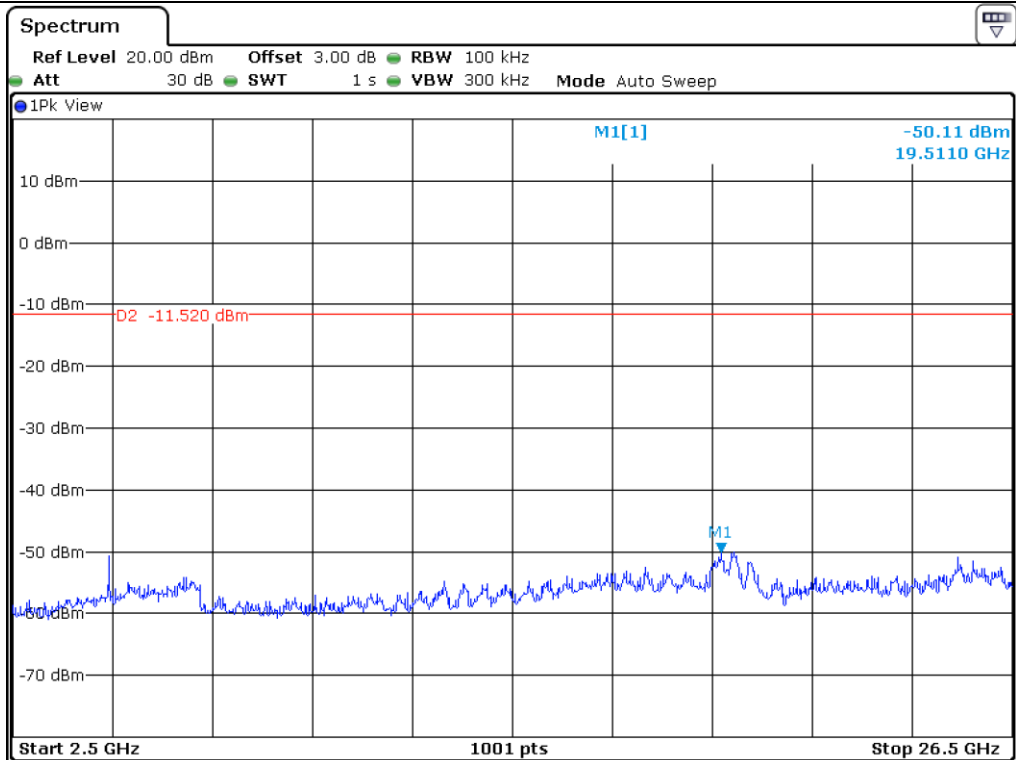


Middle Channel

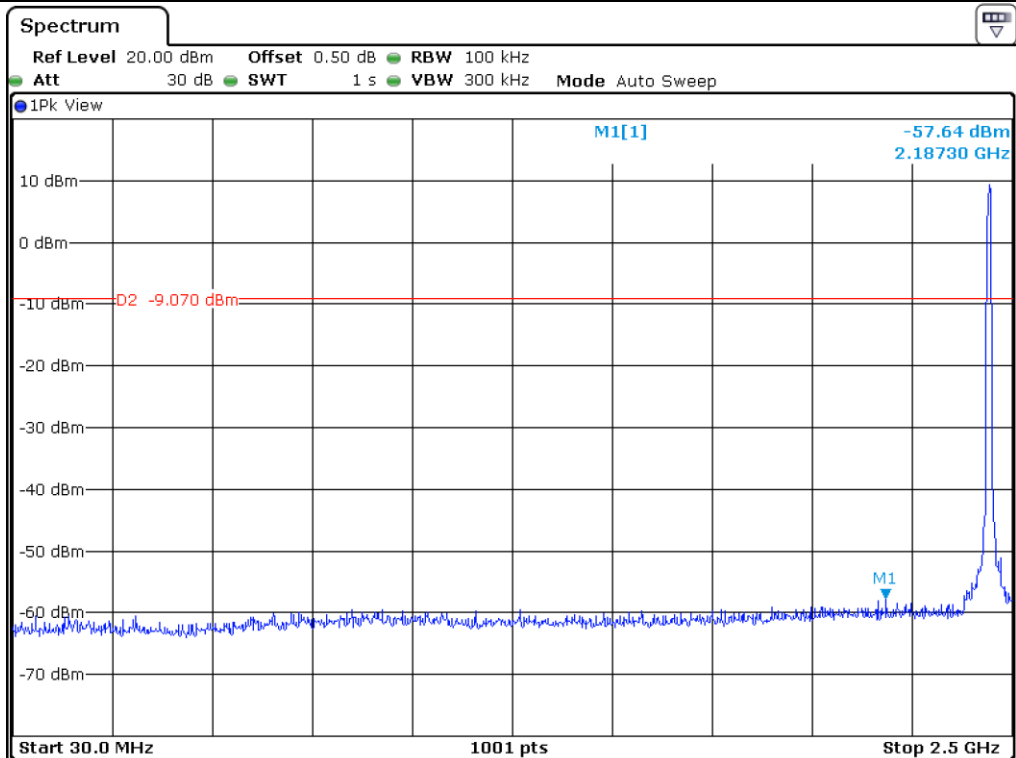




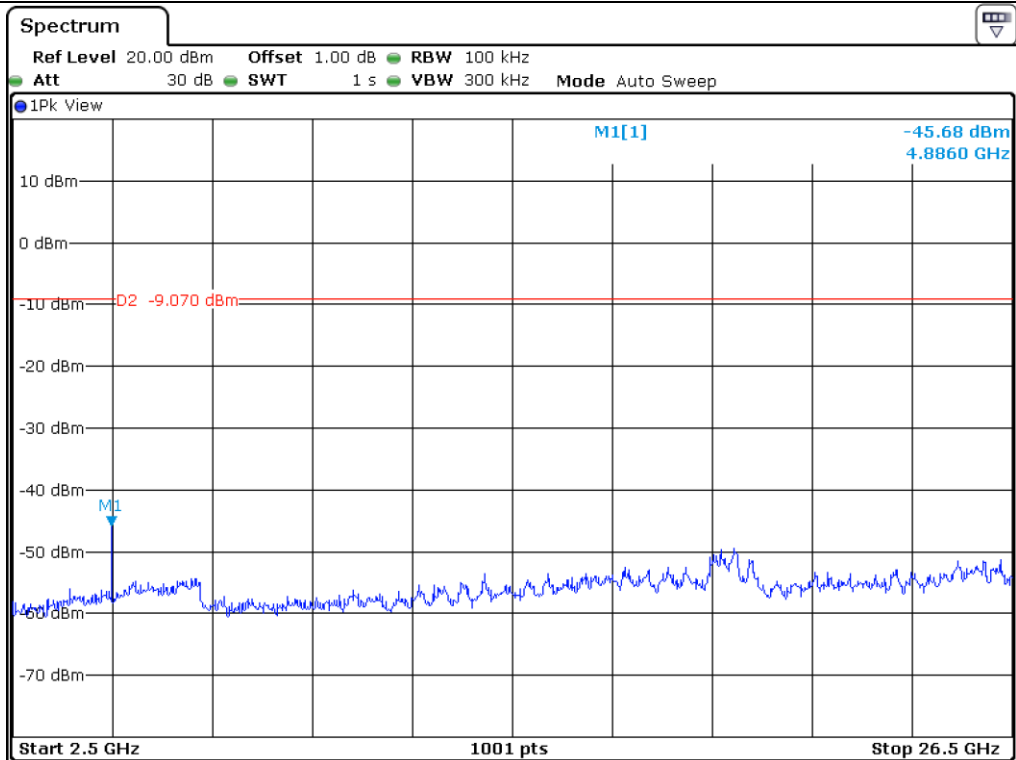
Low Channel



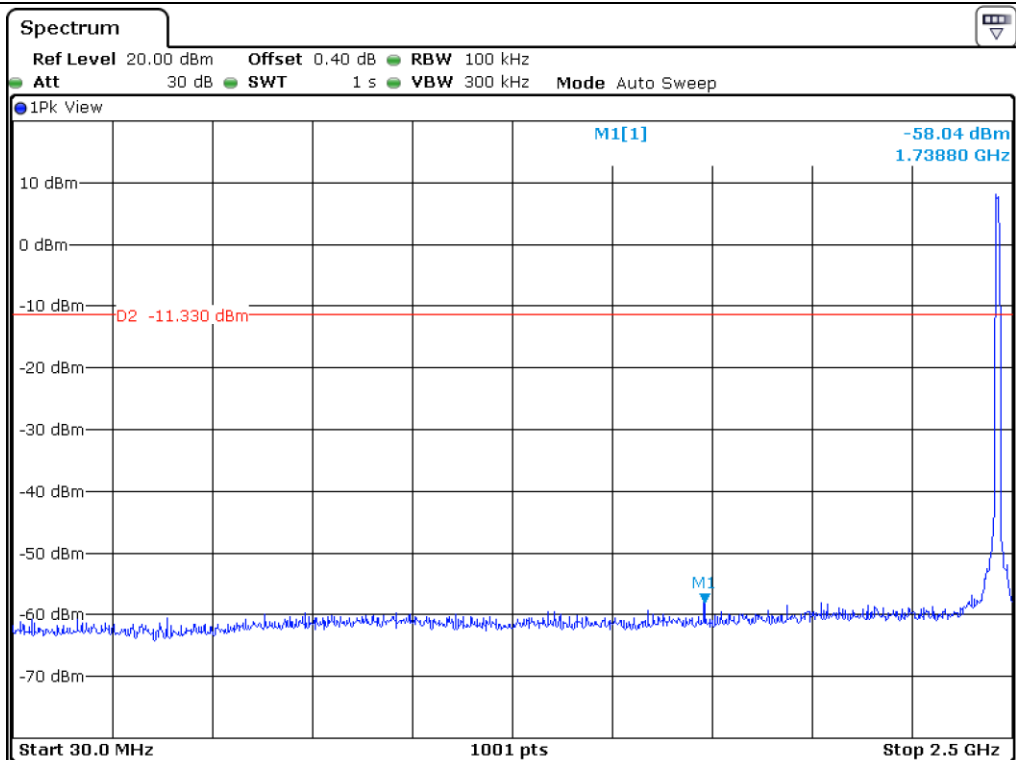
Low Channel



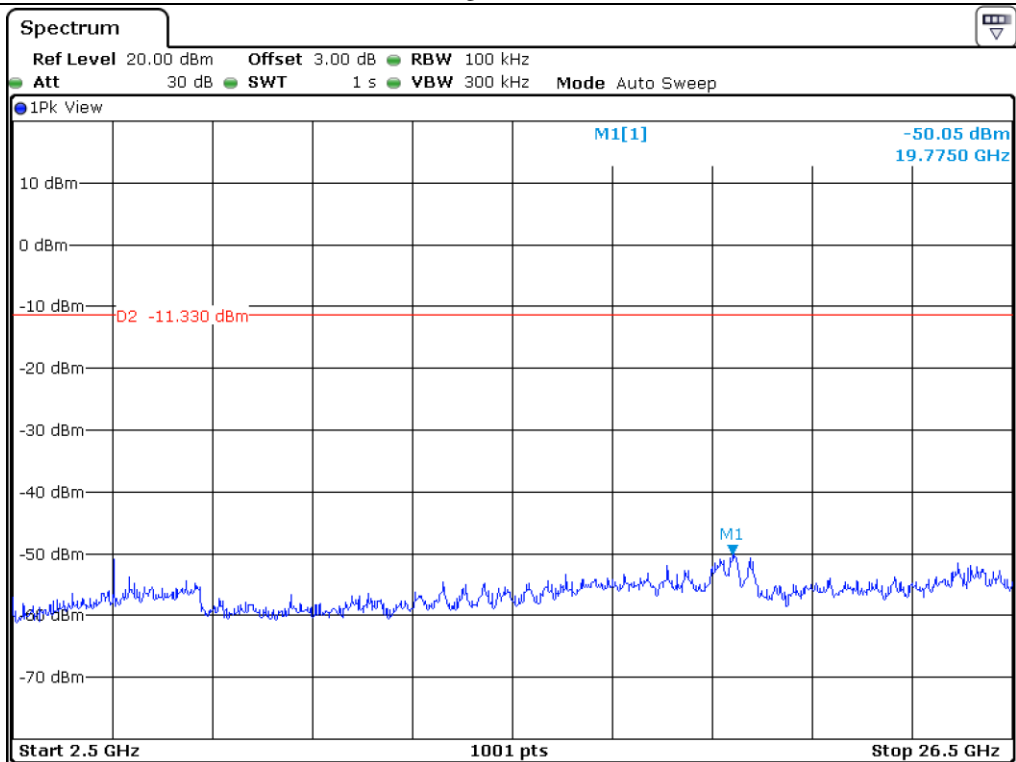
Middle Channel



Middle Channel



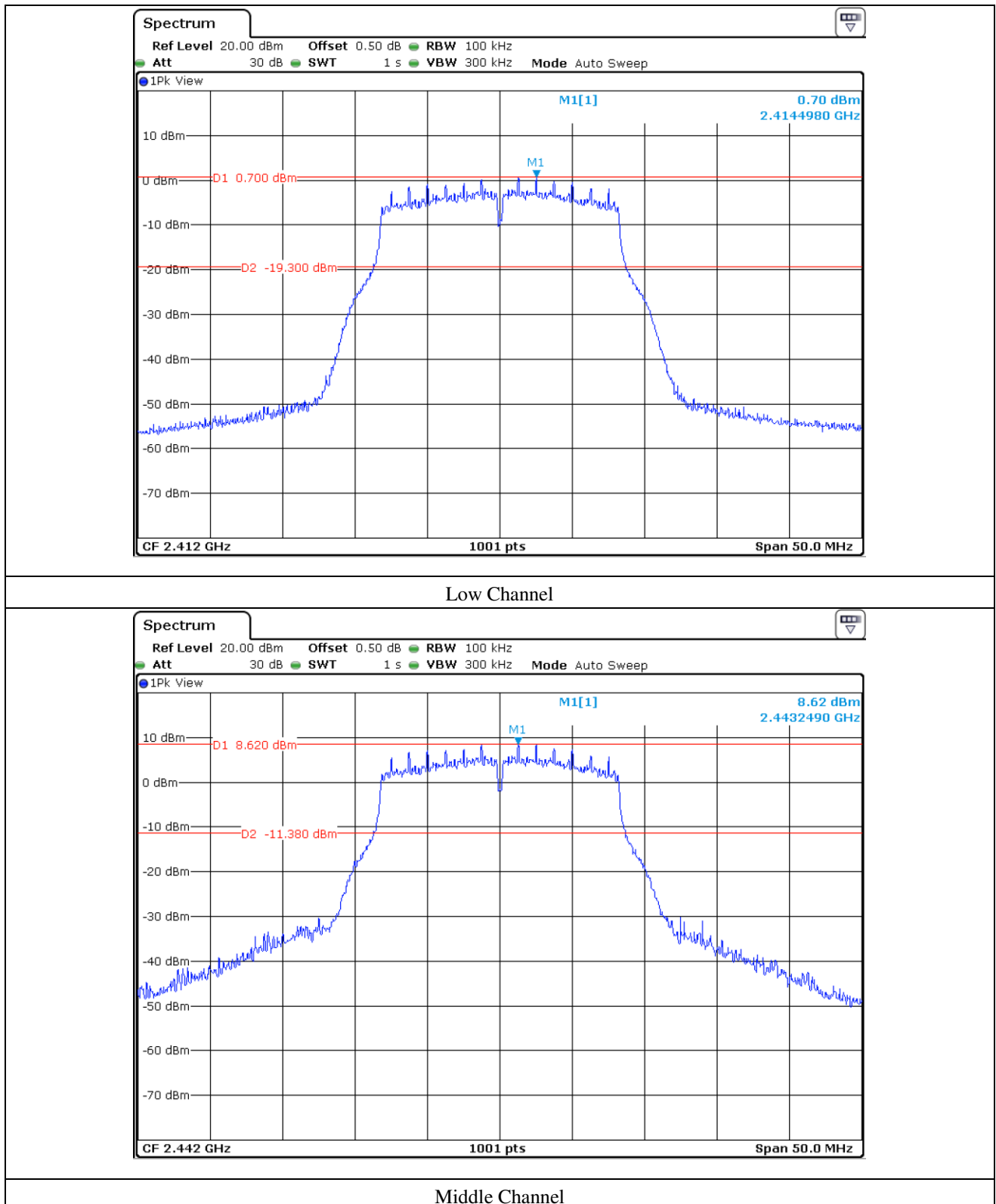
High Channel

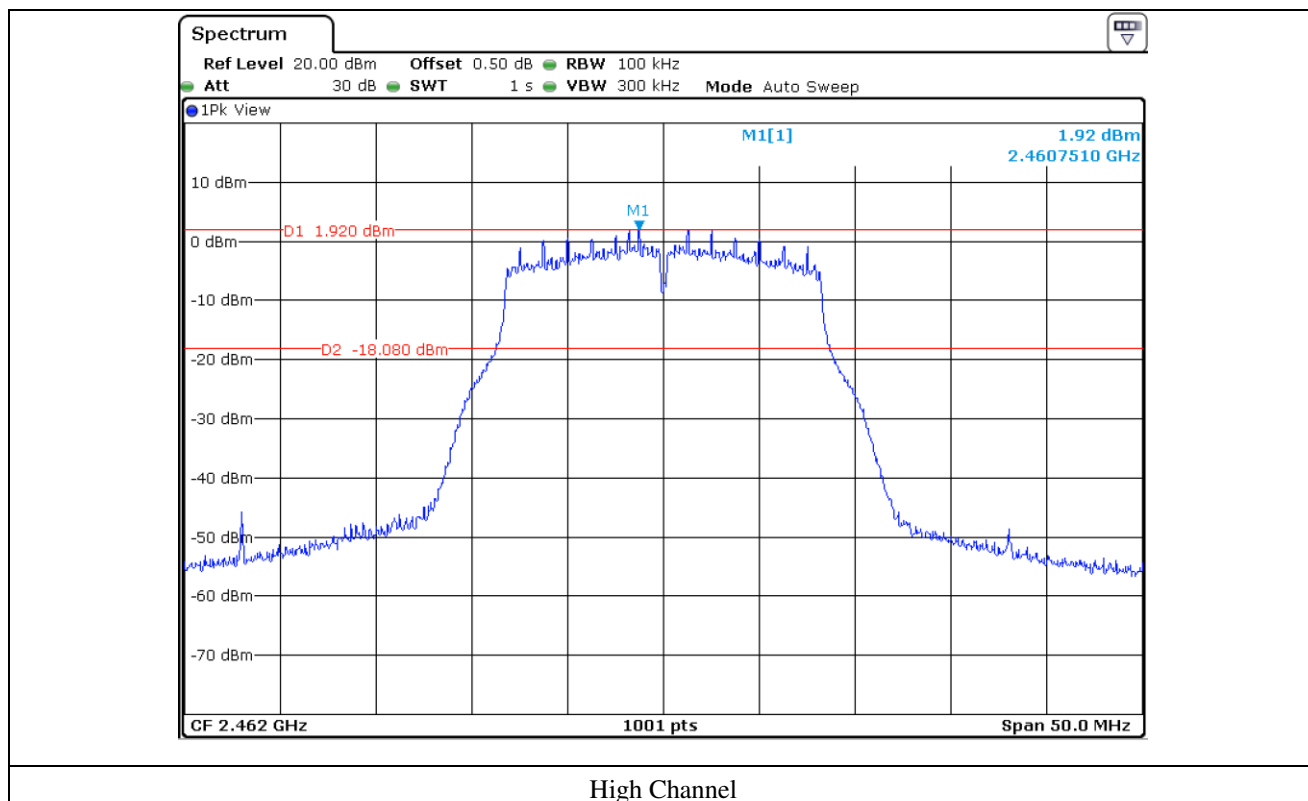


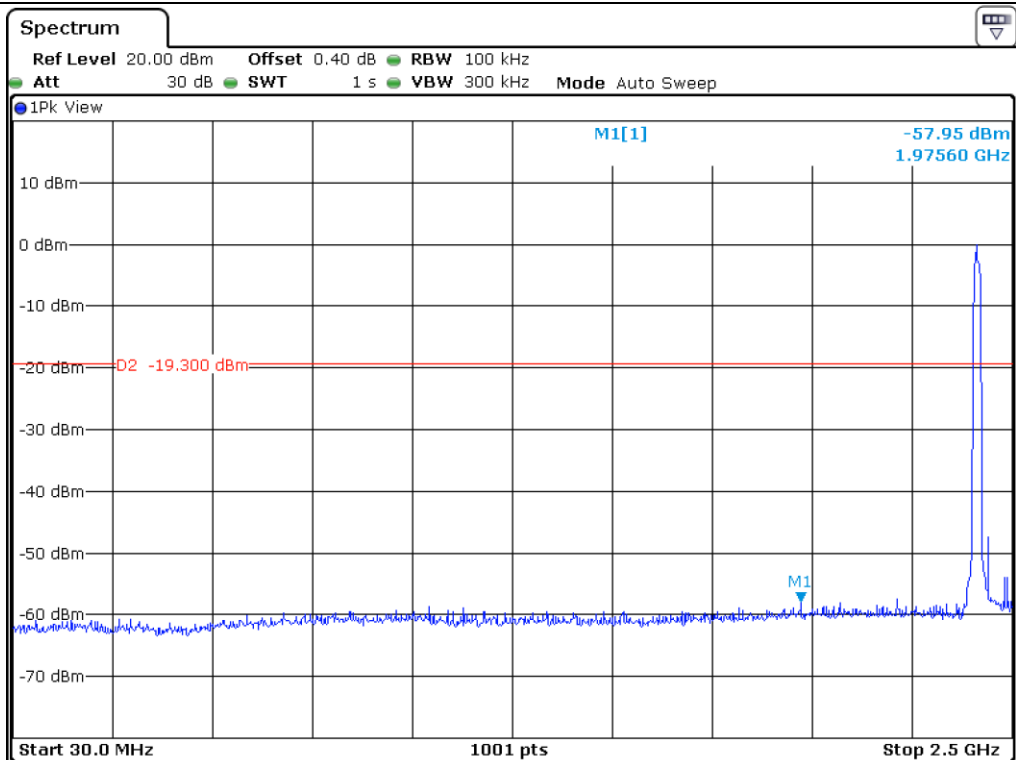
High Channel

9.5.2.2 Test data for 802.11g WLAN Mode

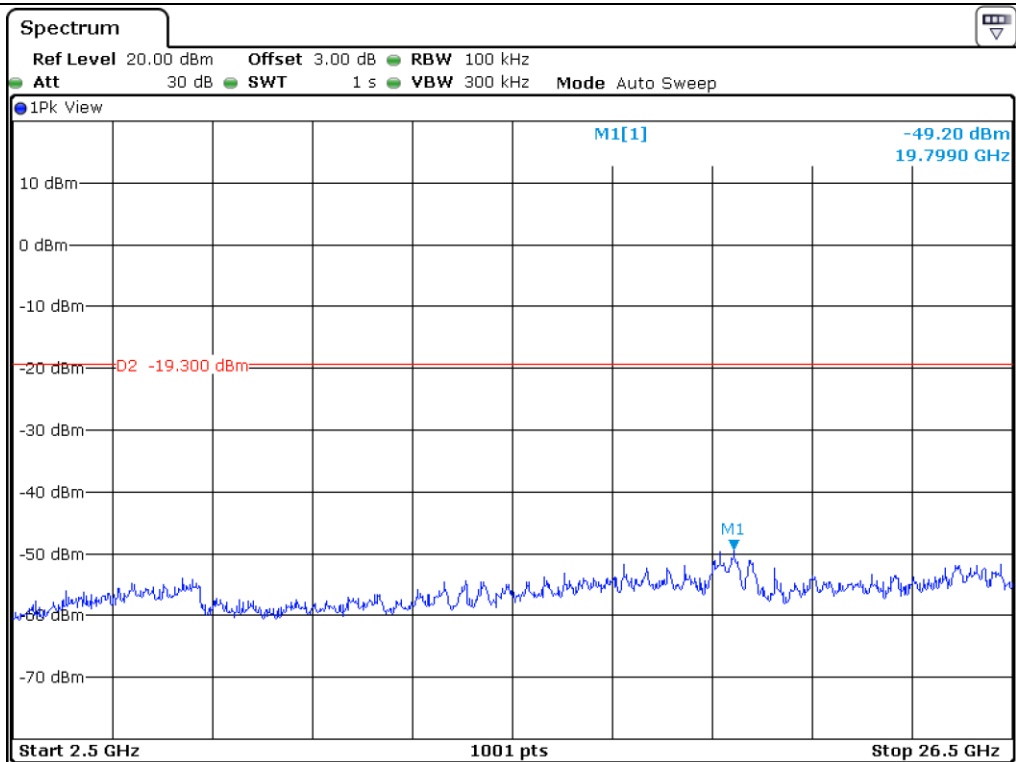
9.5.2.2.1 Test data for Antenna 0



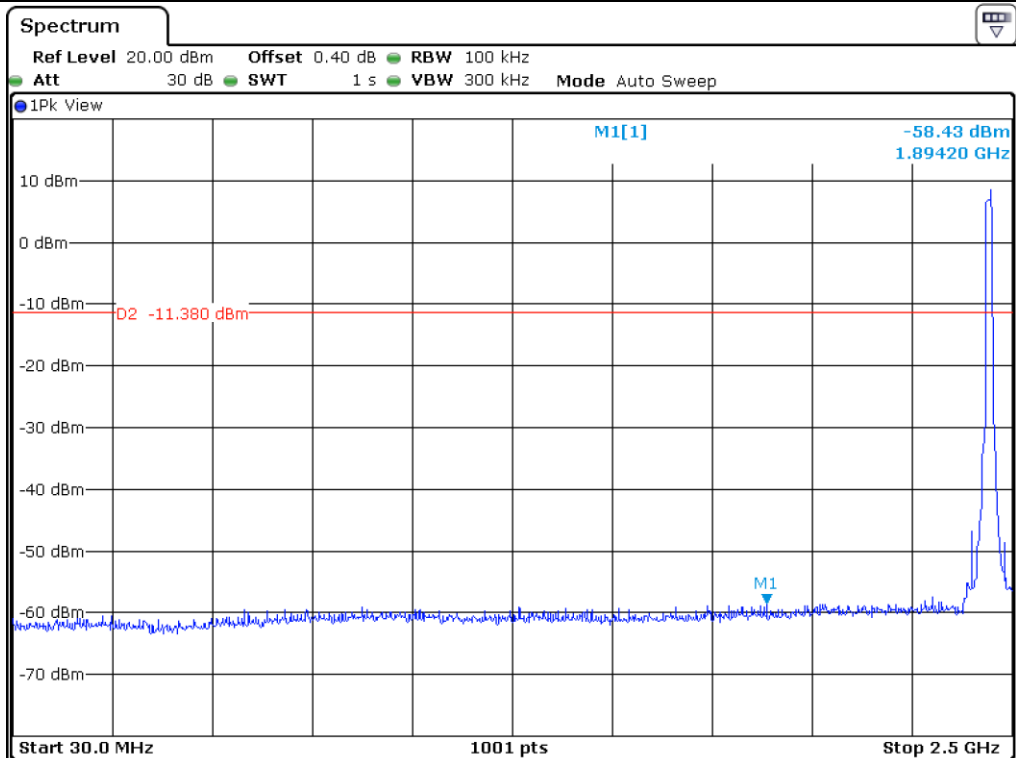




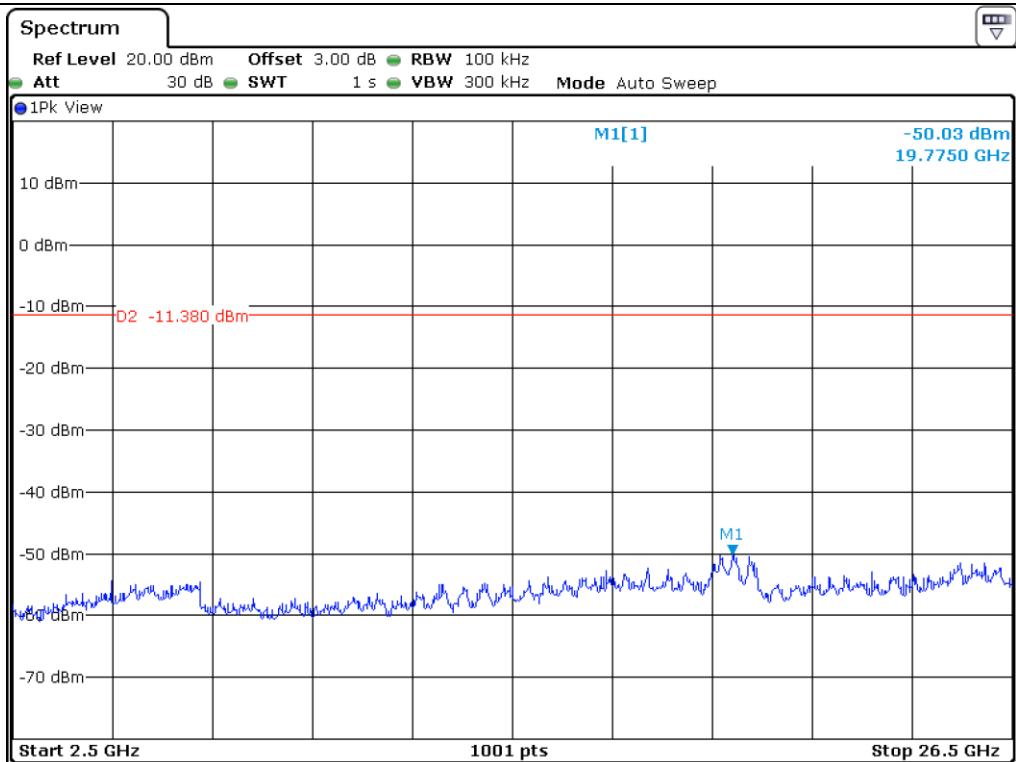
Low Channel



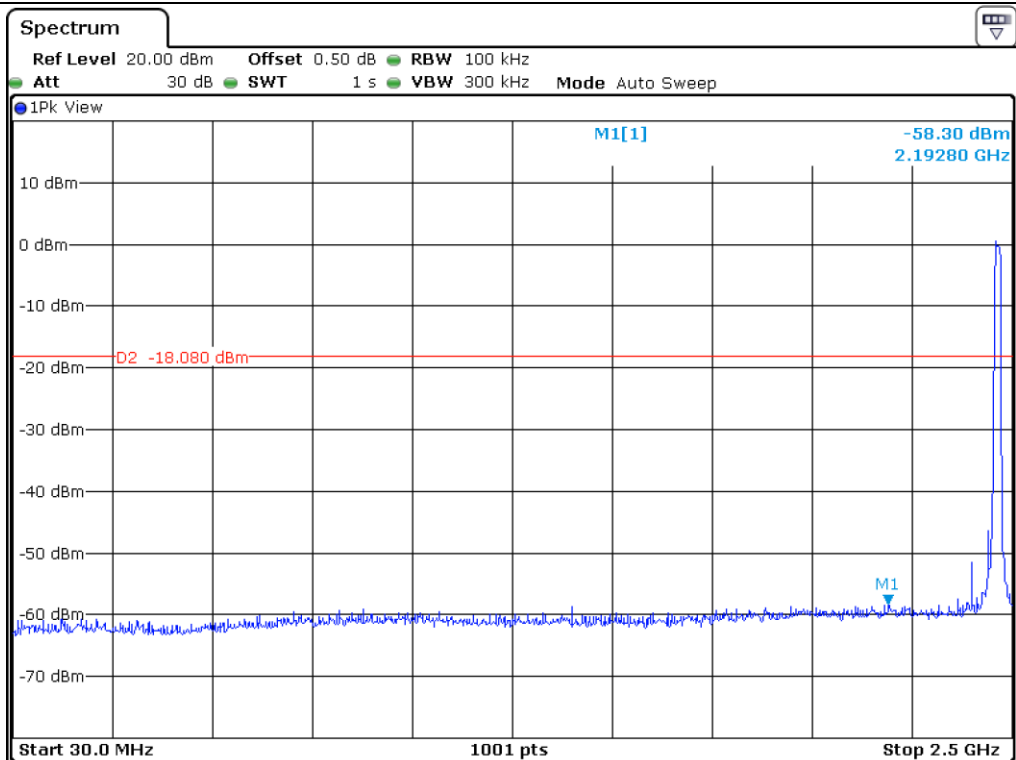
Low Channel



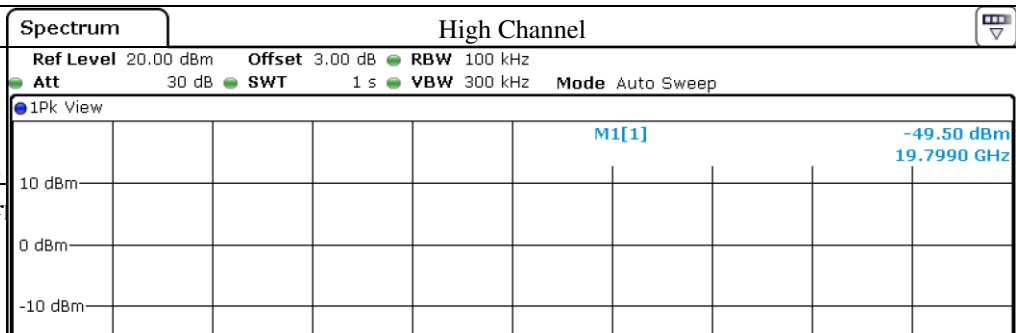
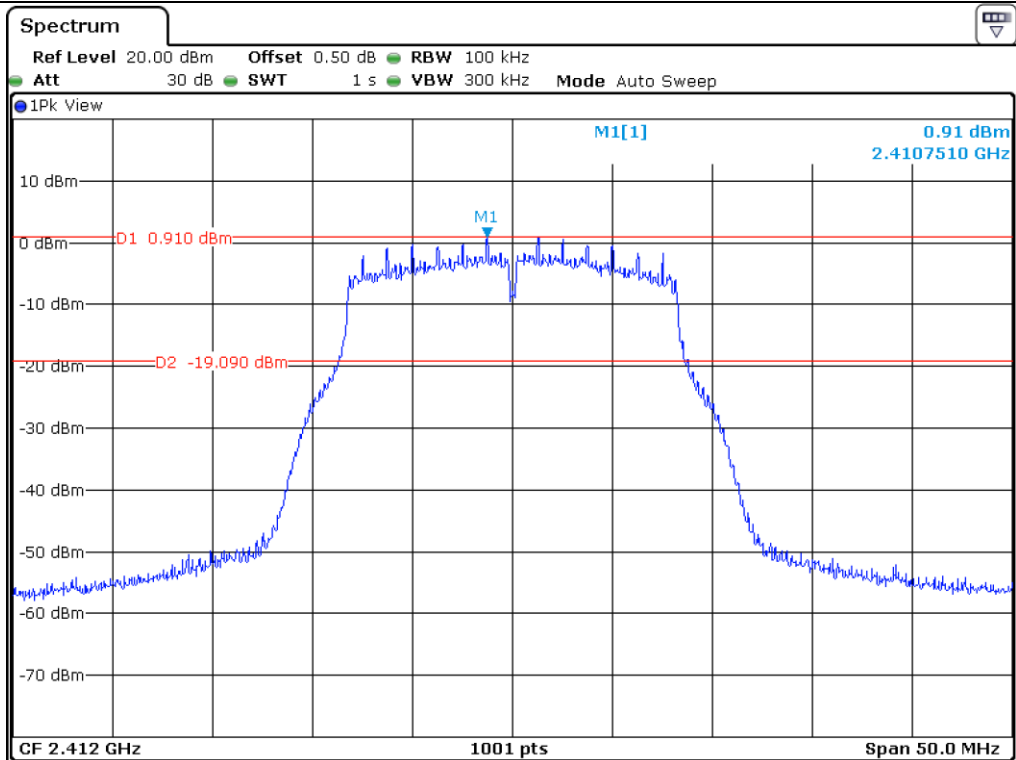
Middle Channel



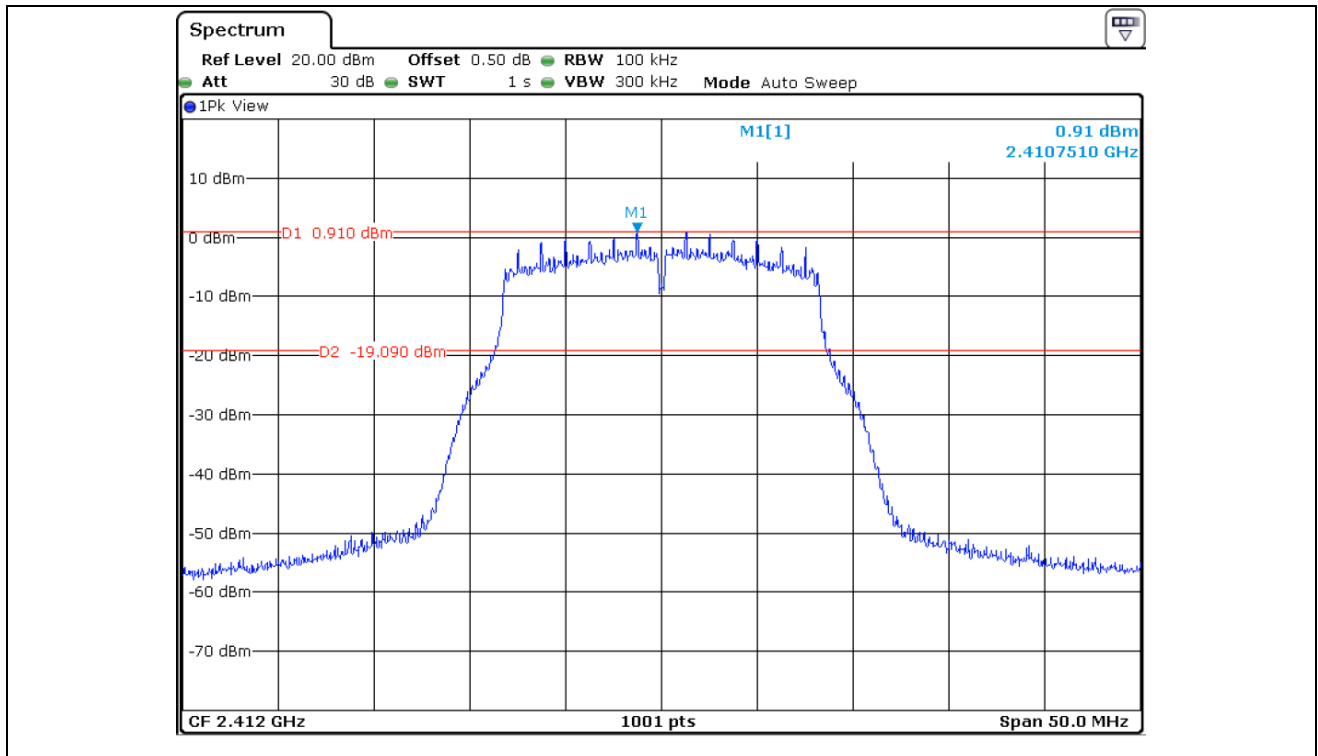
Middle Channel



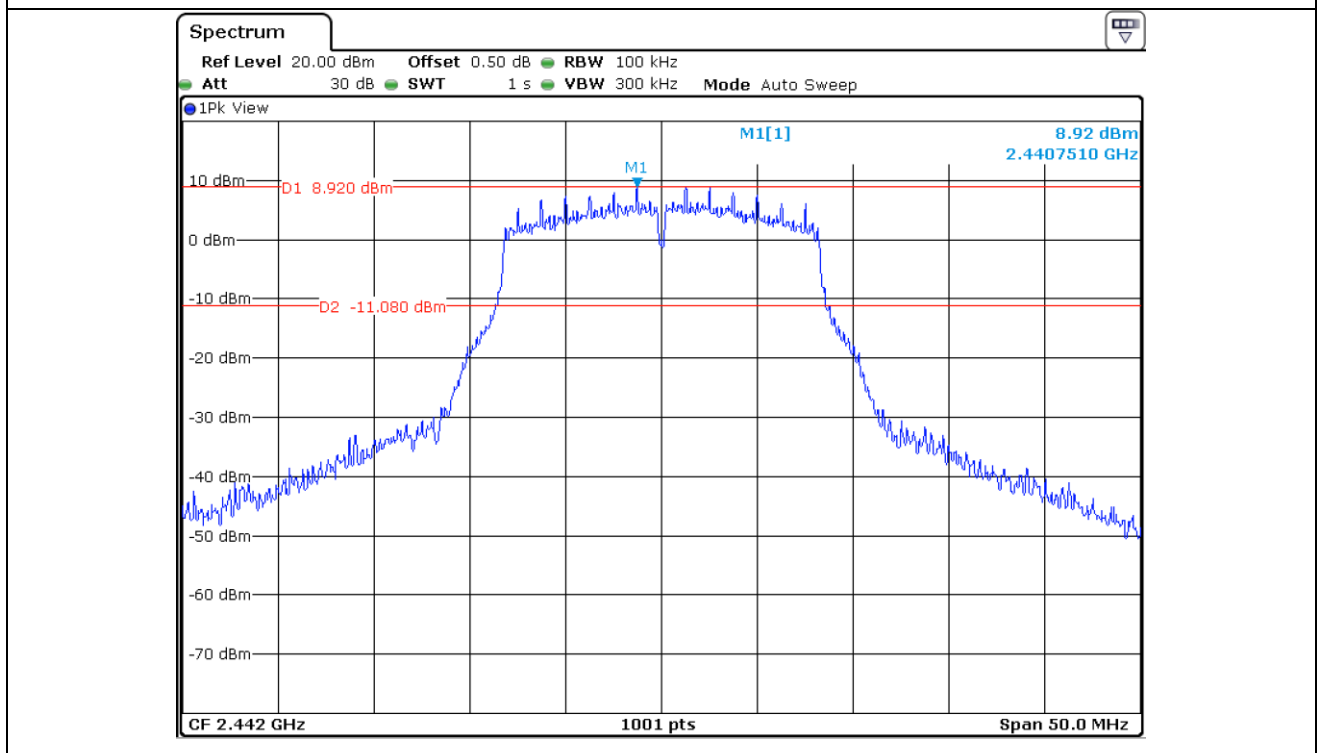
High Channel



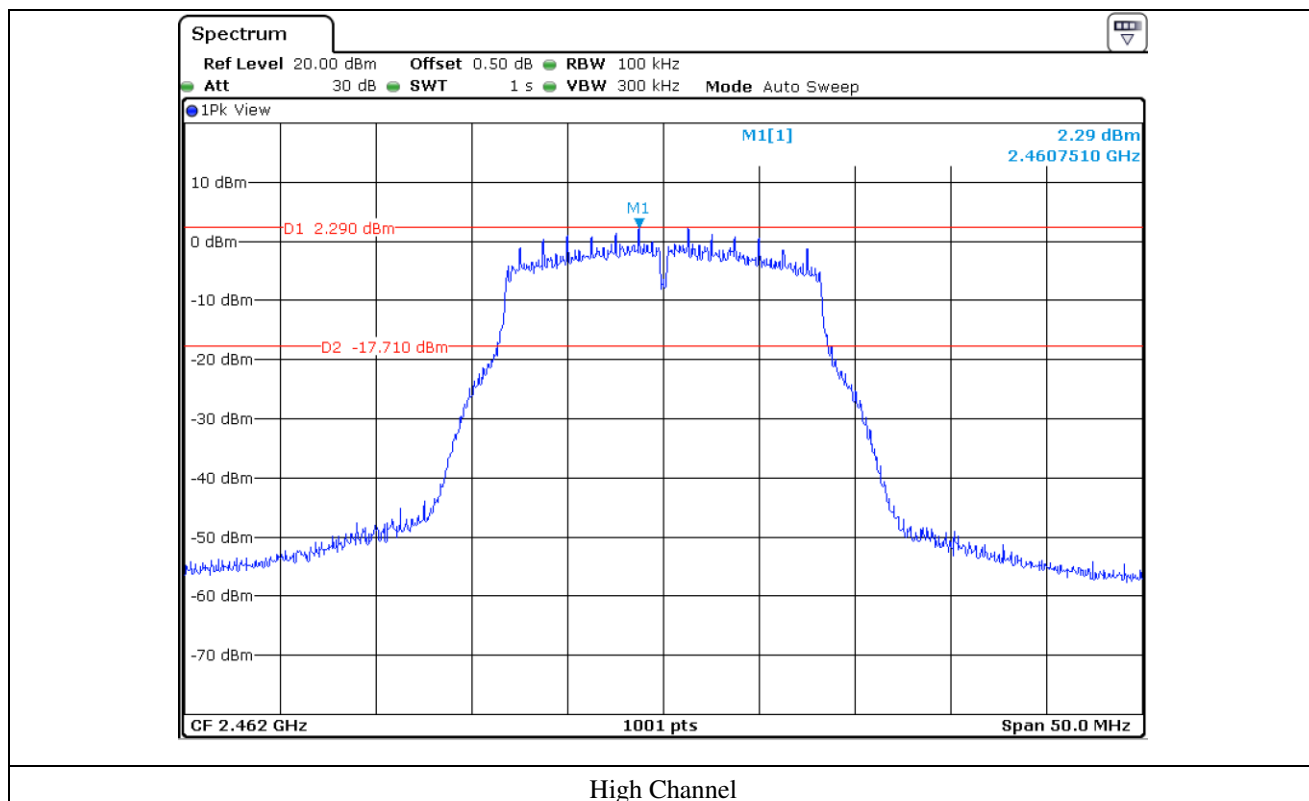
9.5.2.2.2 Test data for Antenna 1

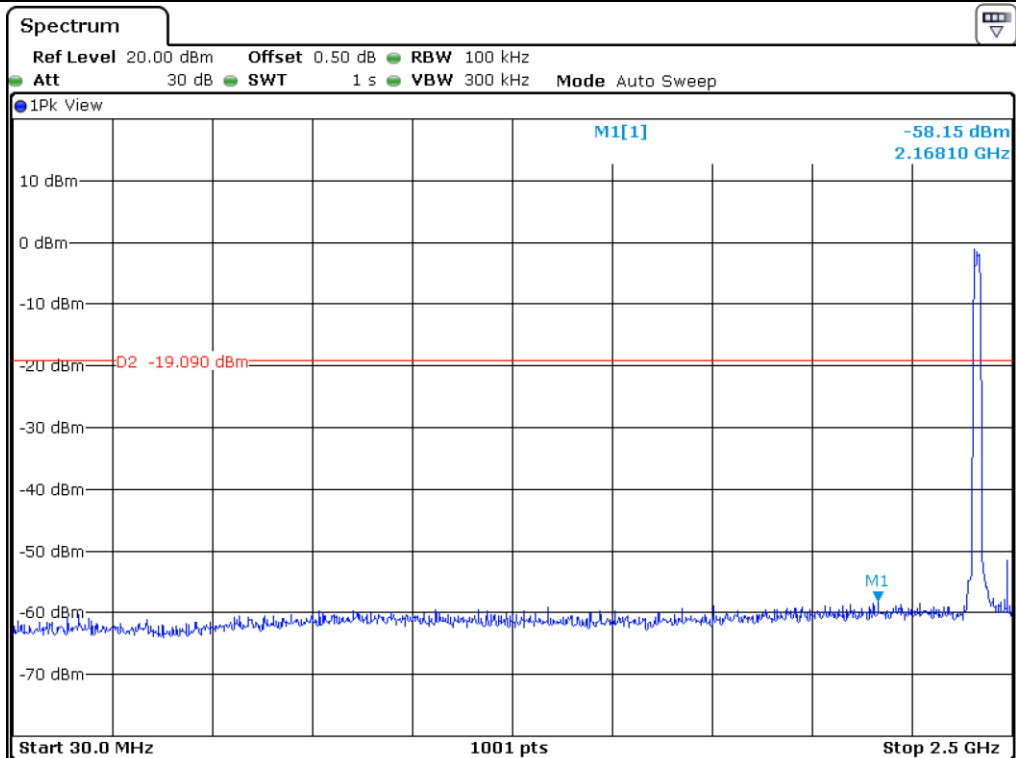


Low Channel

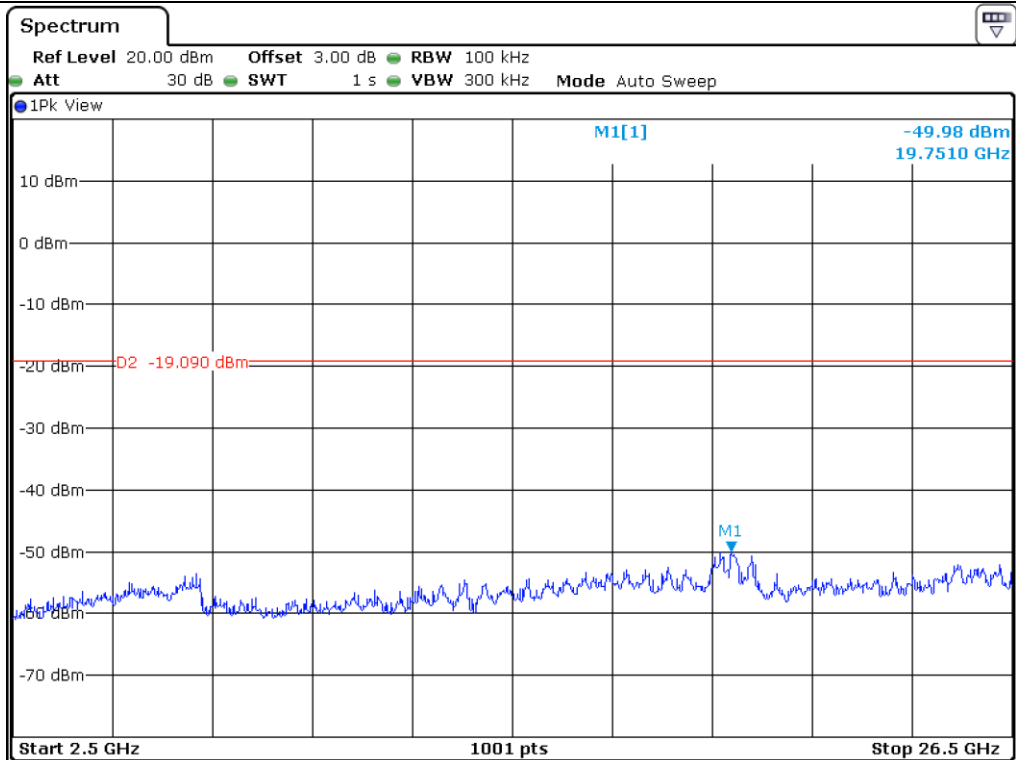


Middle Channel

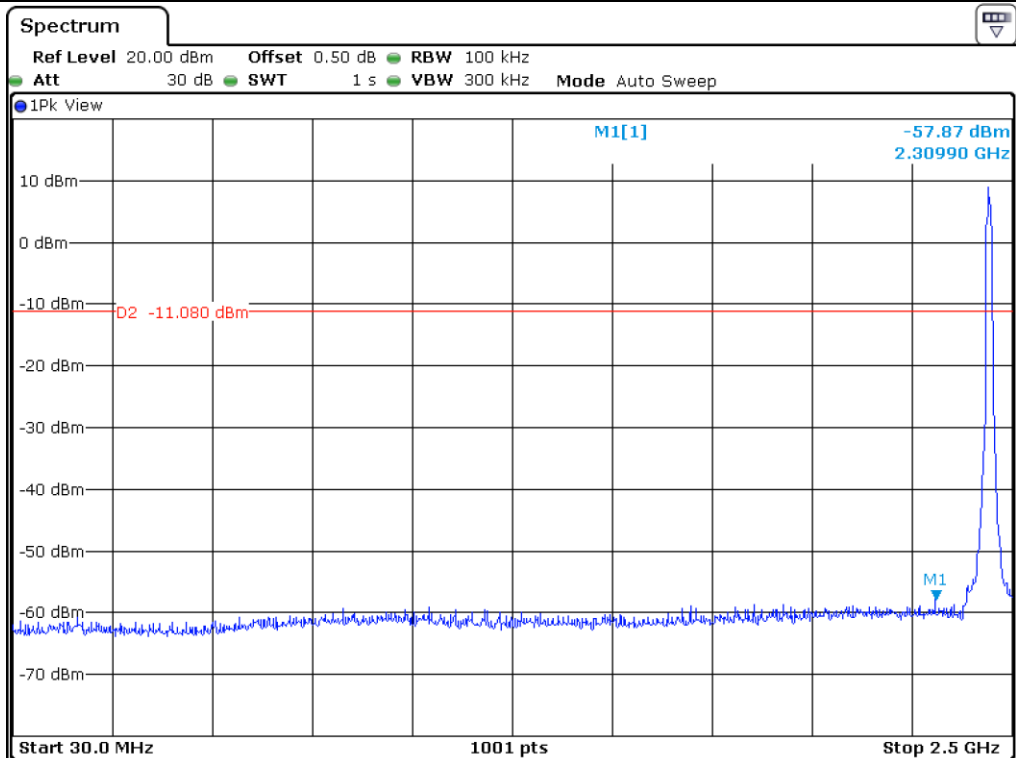




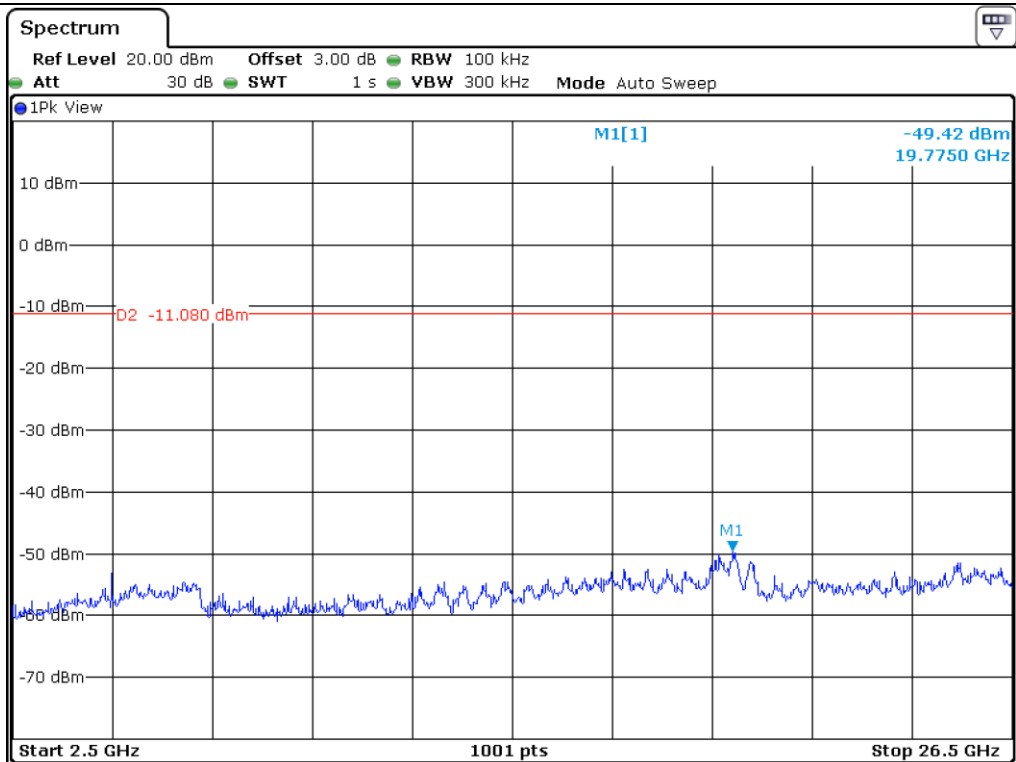
Low Channel



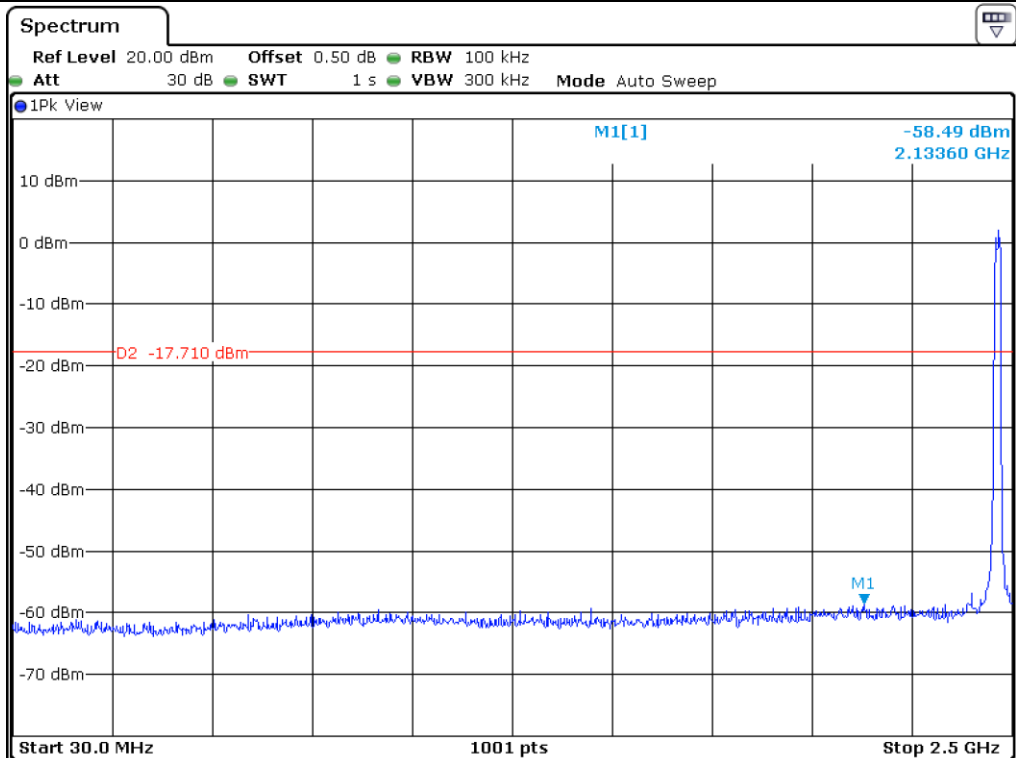
Low Channel



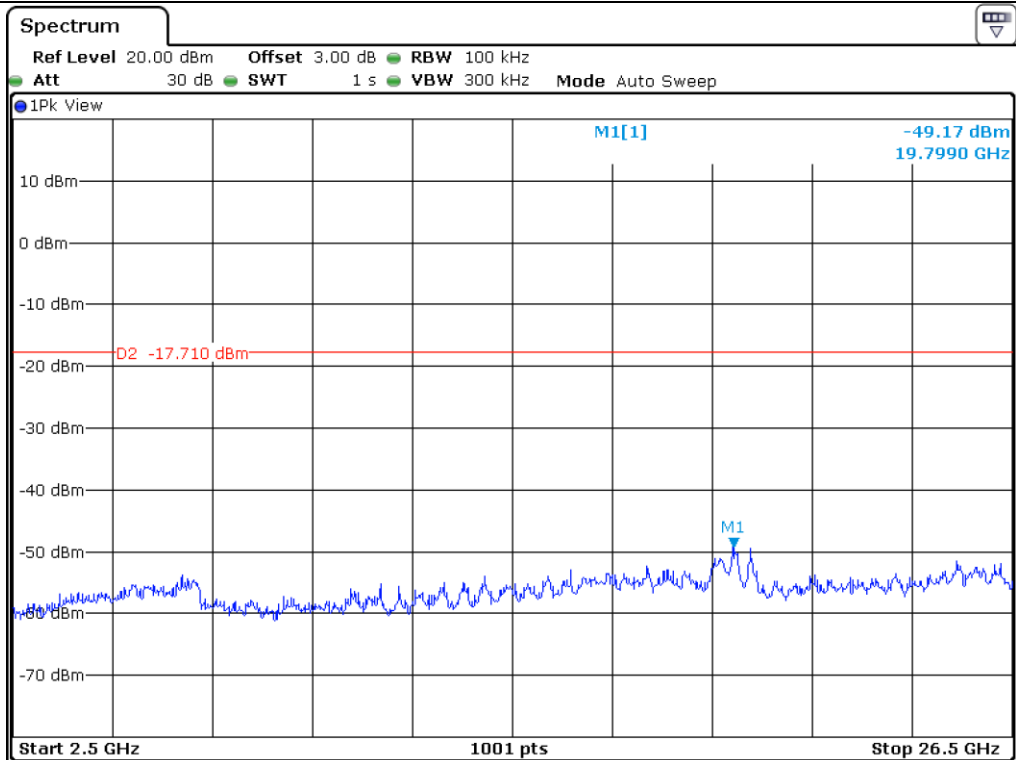
Middle Channel



Middle Channel

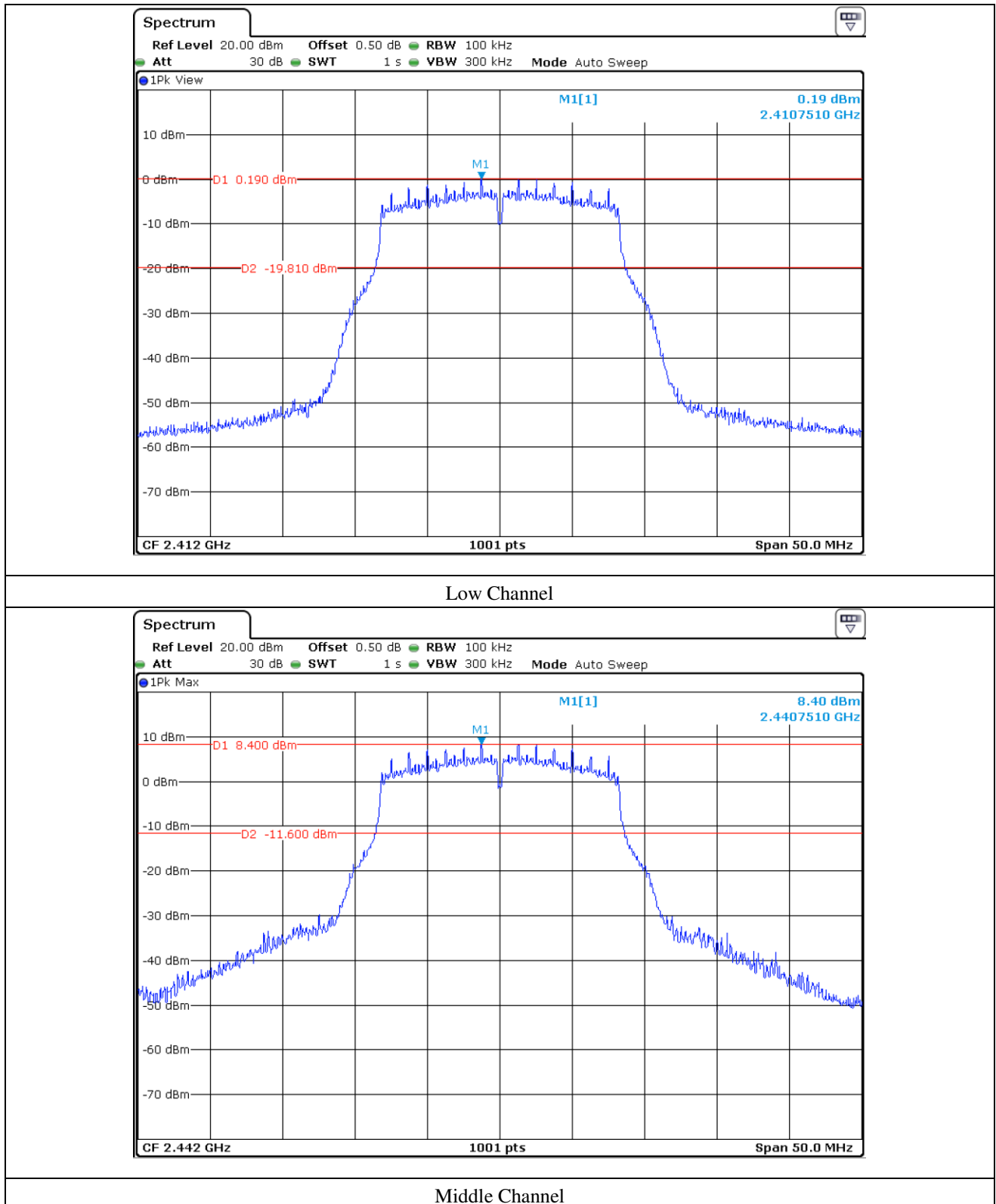


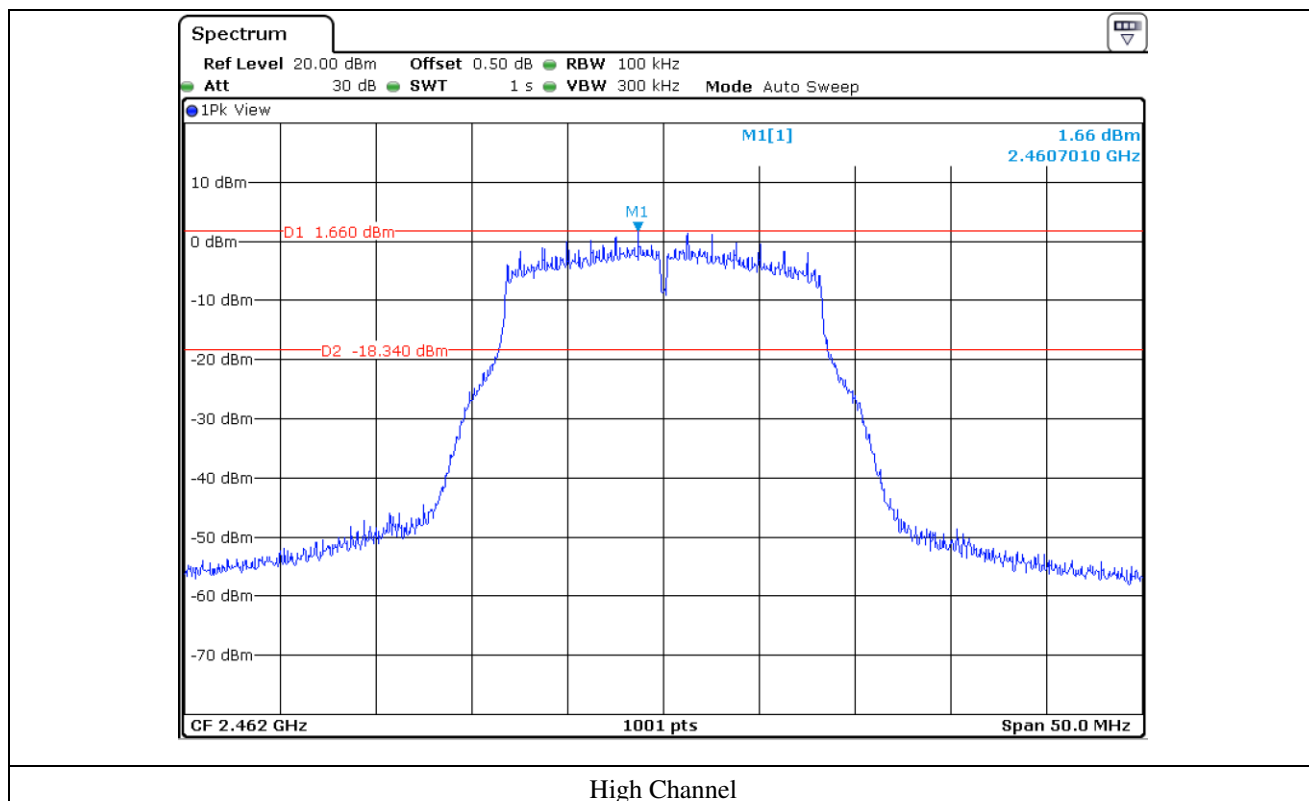
High Channel

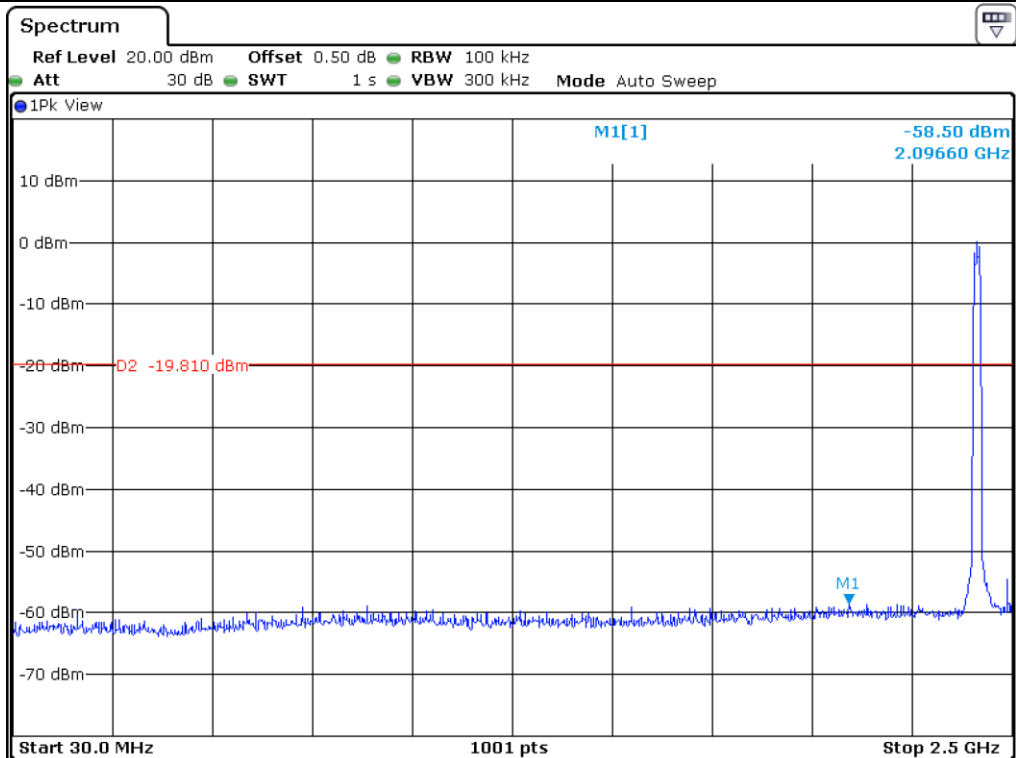


High Channel

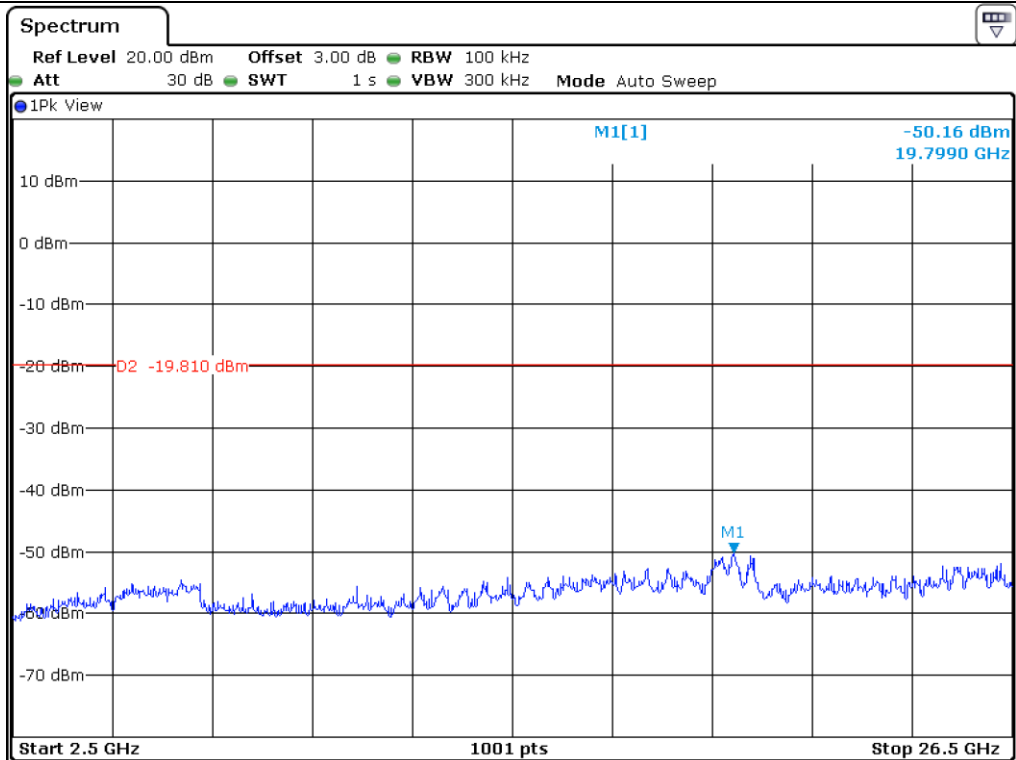
9.5.2.2.3 Test data for Antenna 2



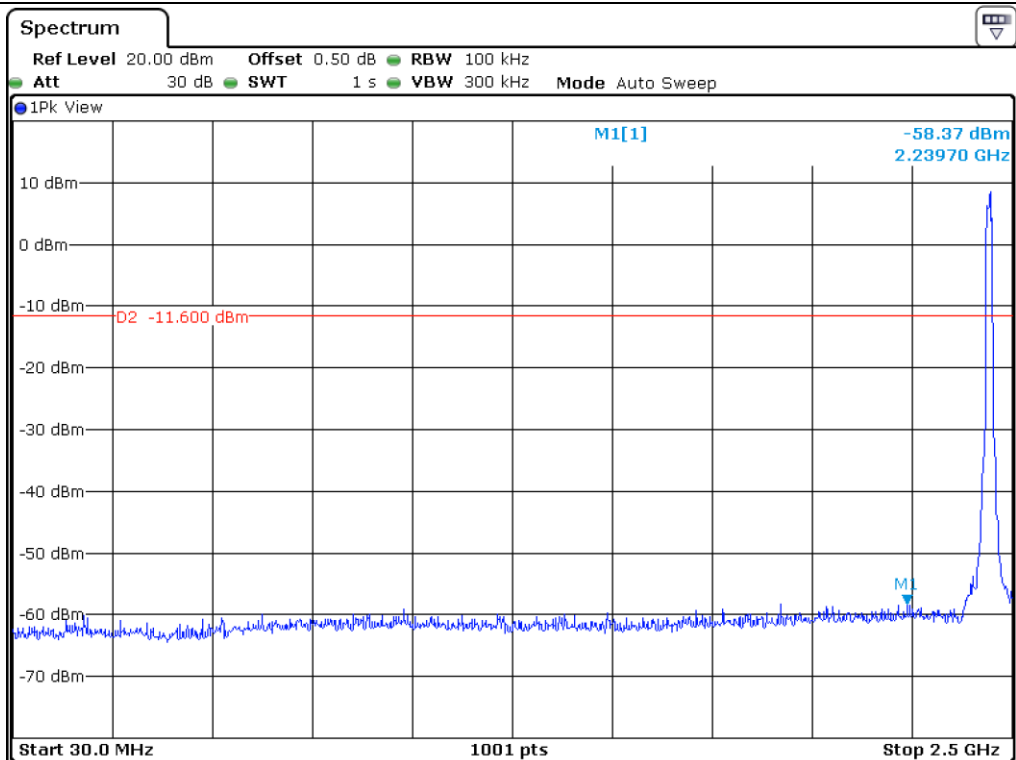




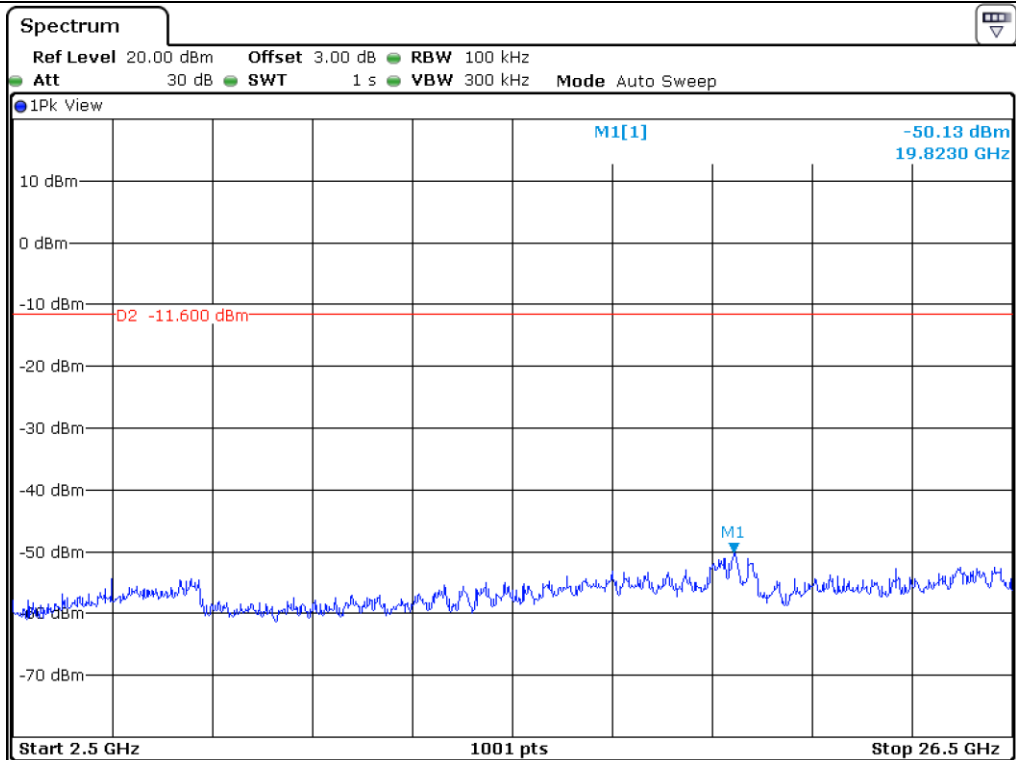
Low Channel



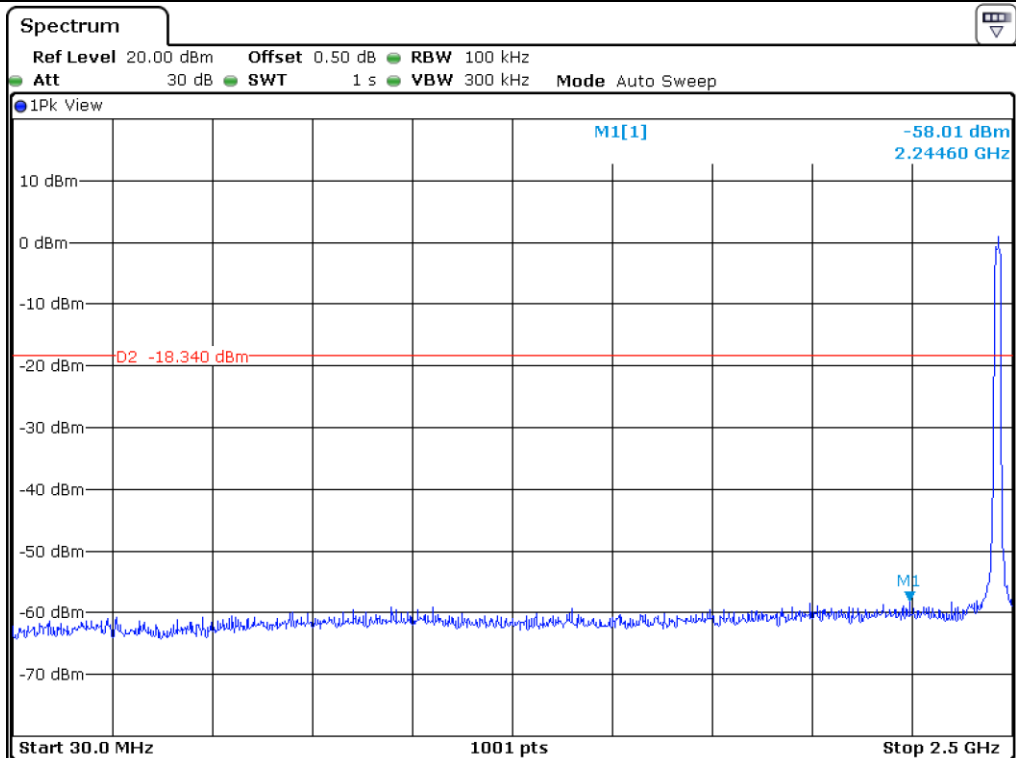
Low Channel



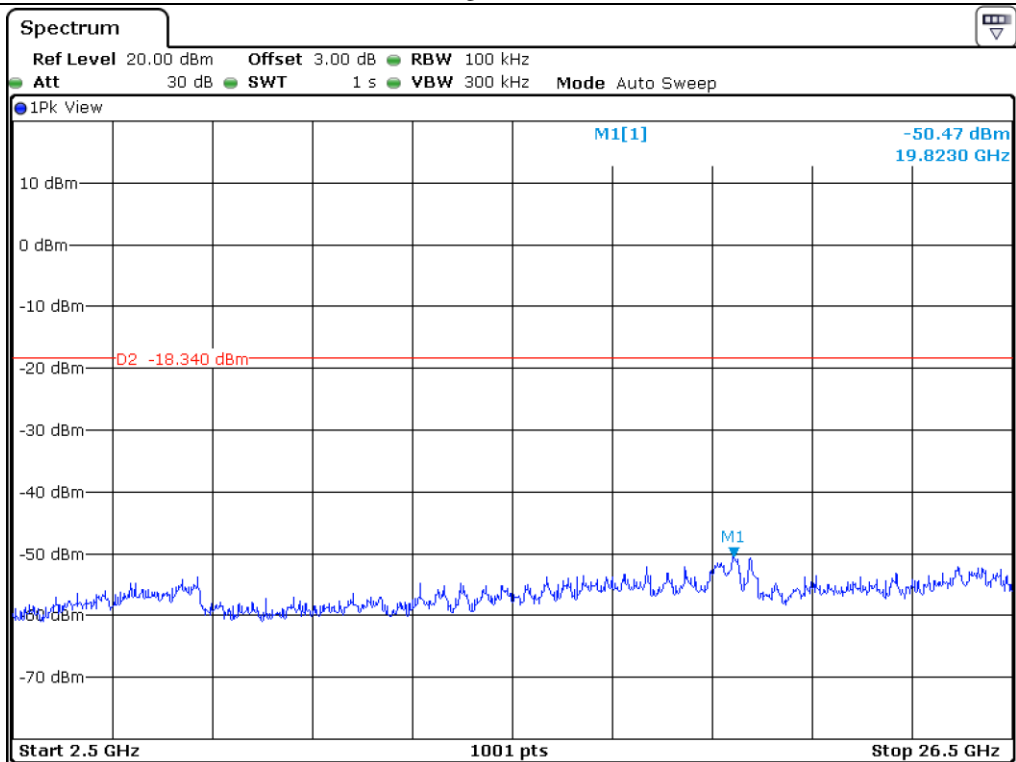
Middle Channel



Middle Channel

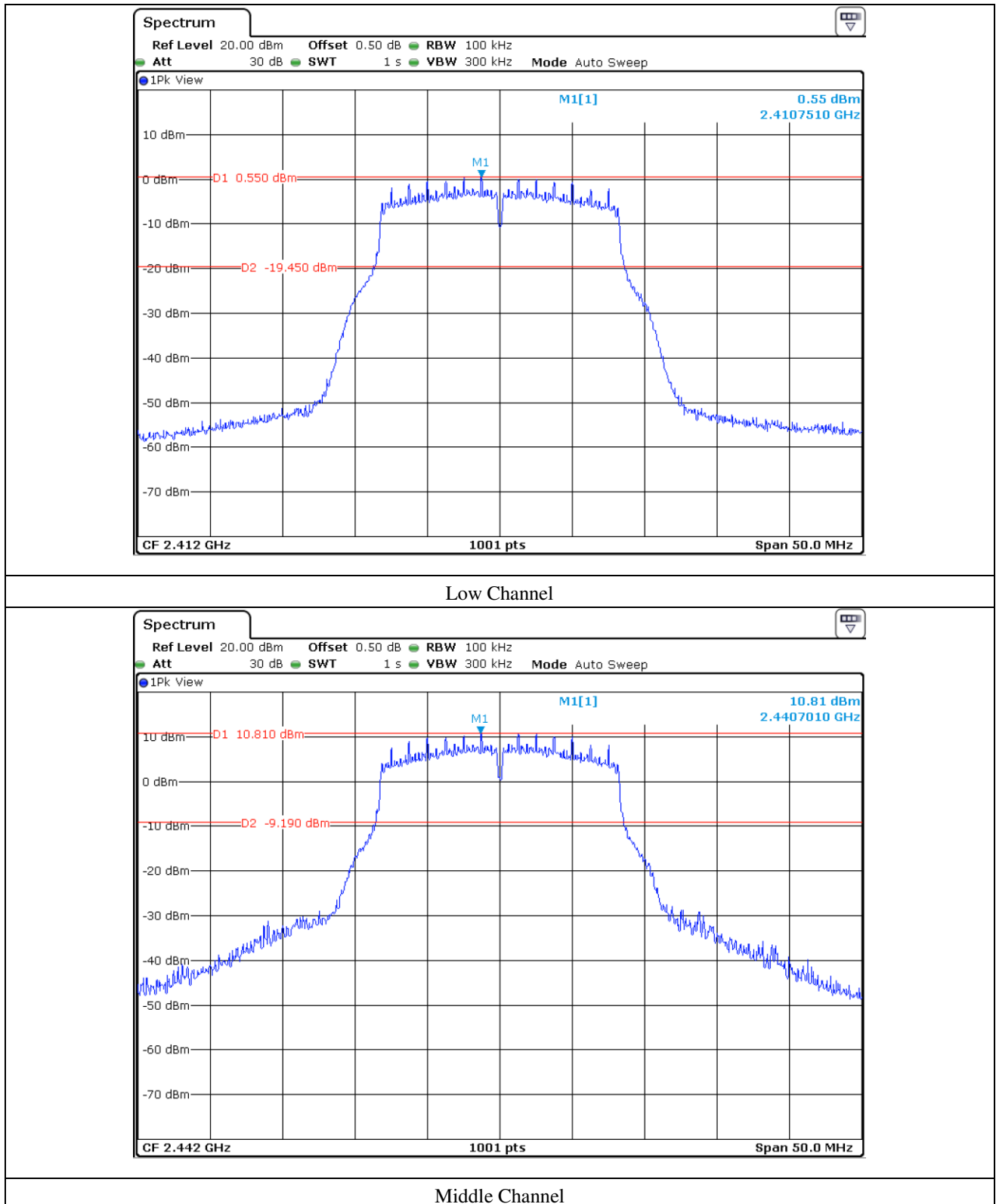


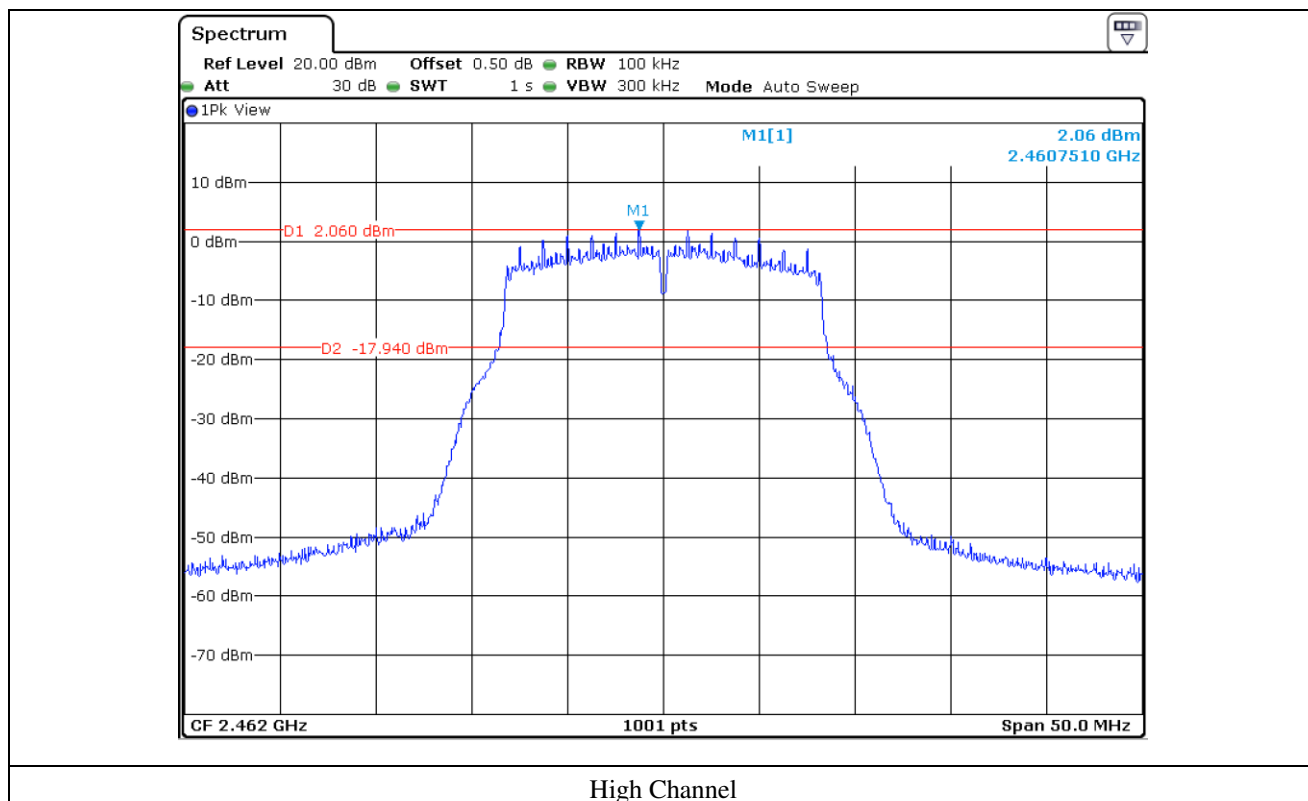
High Channel

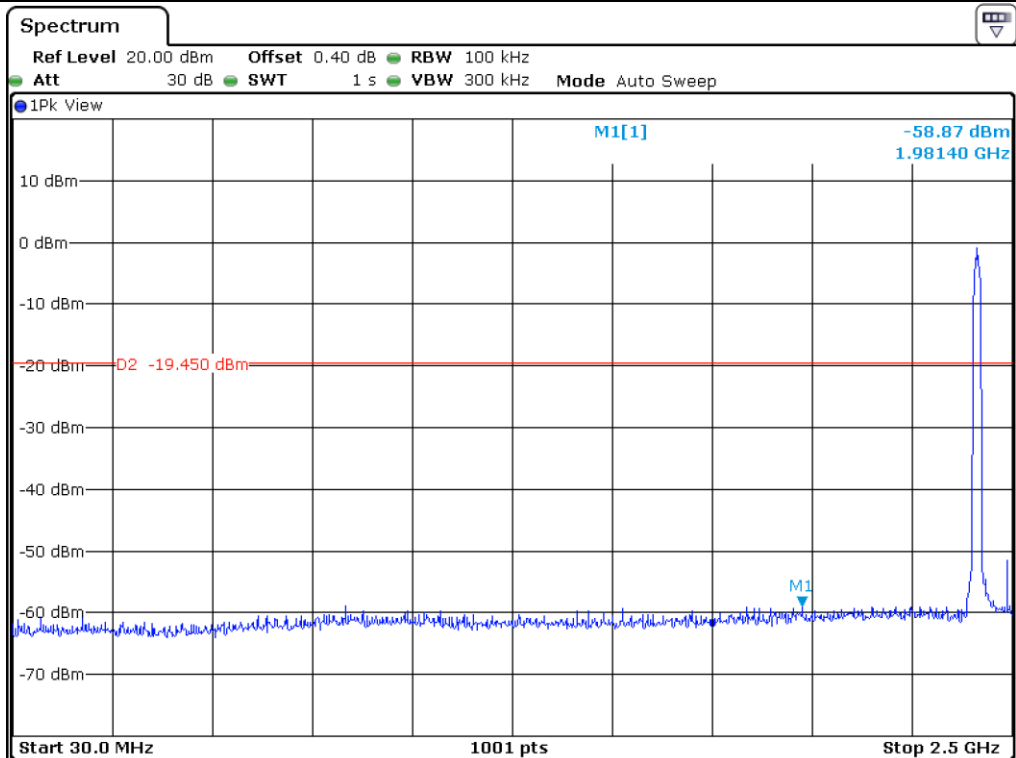


High Channel

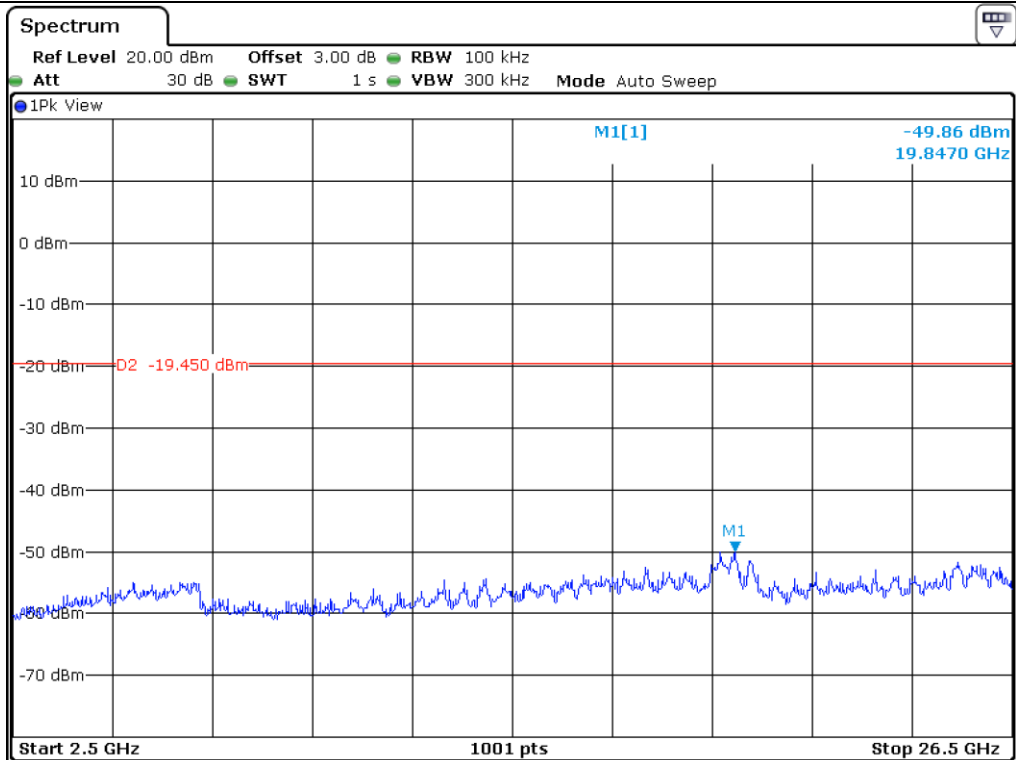
9.5.2.2.4 Test data for Antenna 3



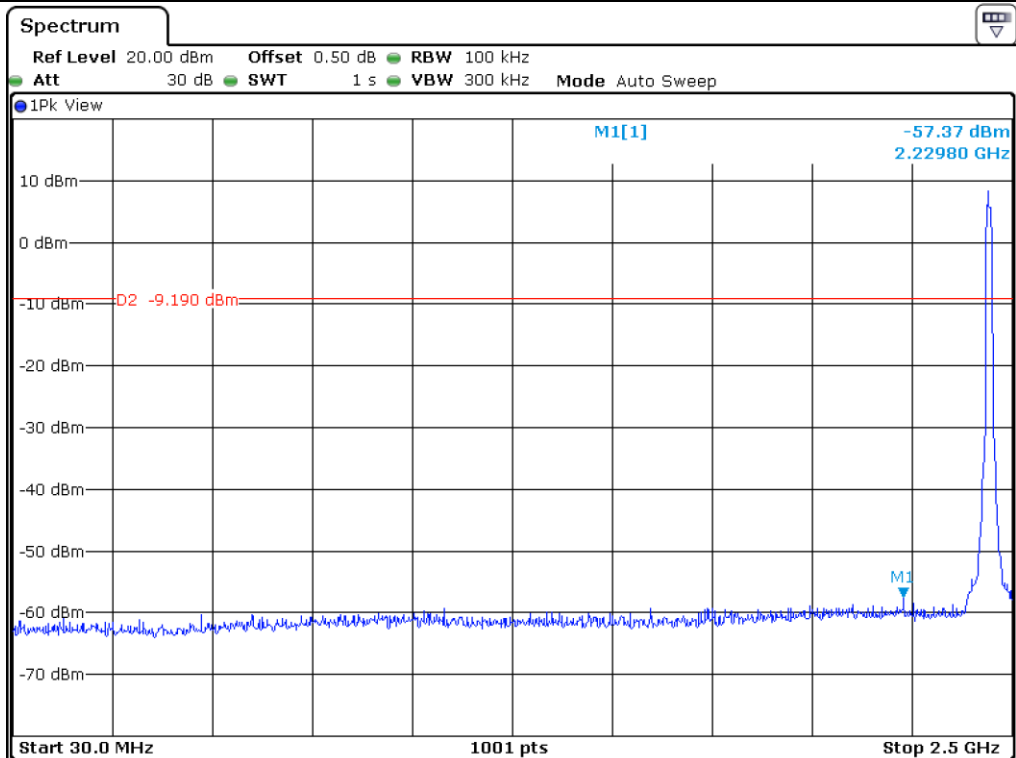




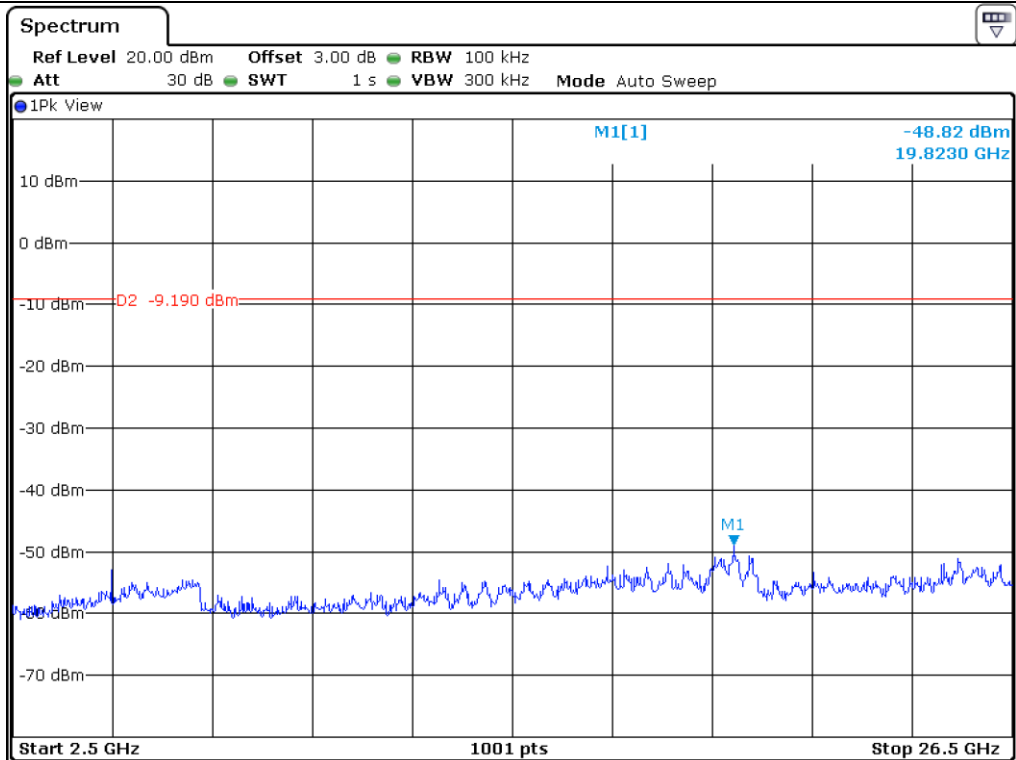
Low Channel



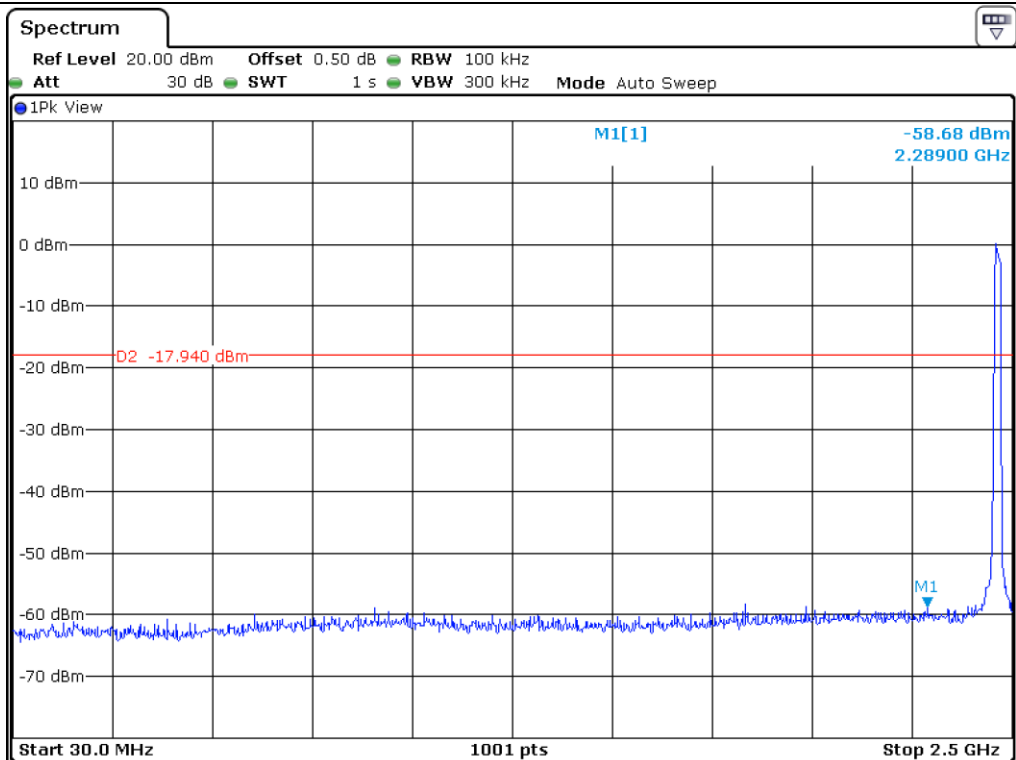
Low Channel



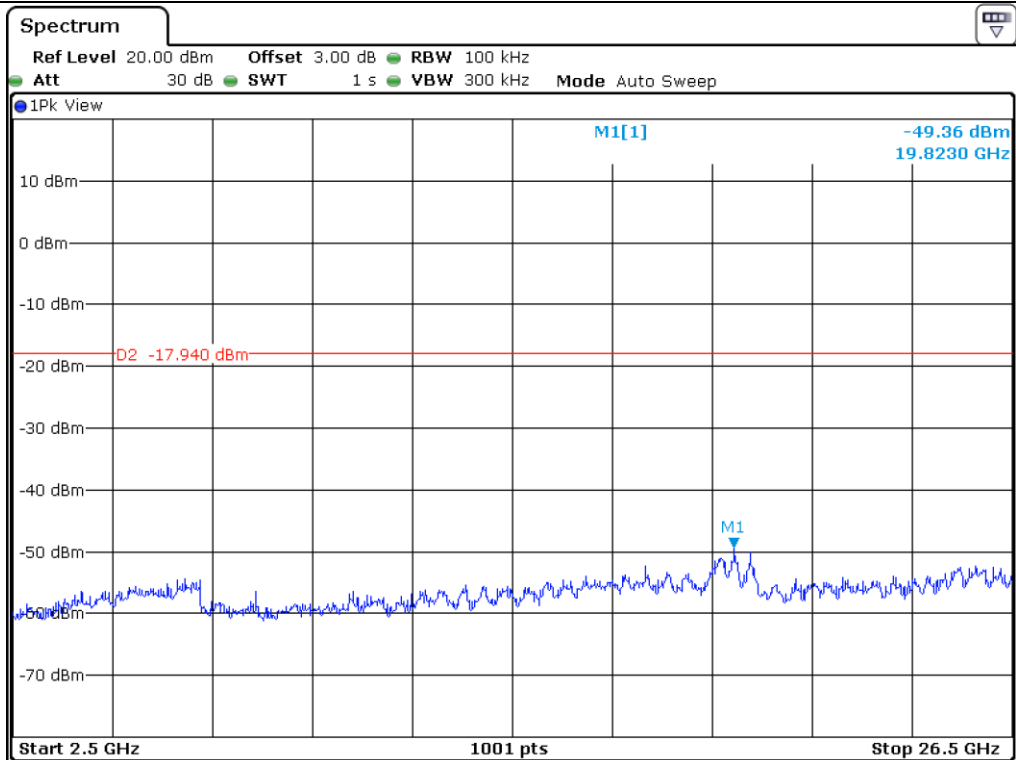
Middle Channel



Middle Channel



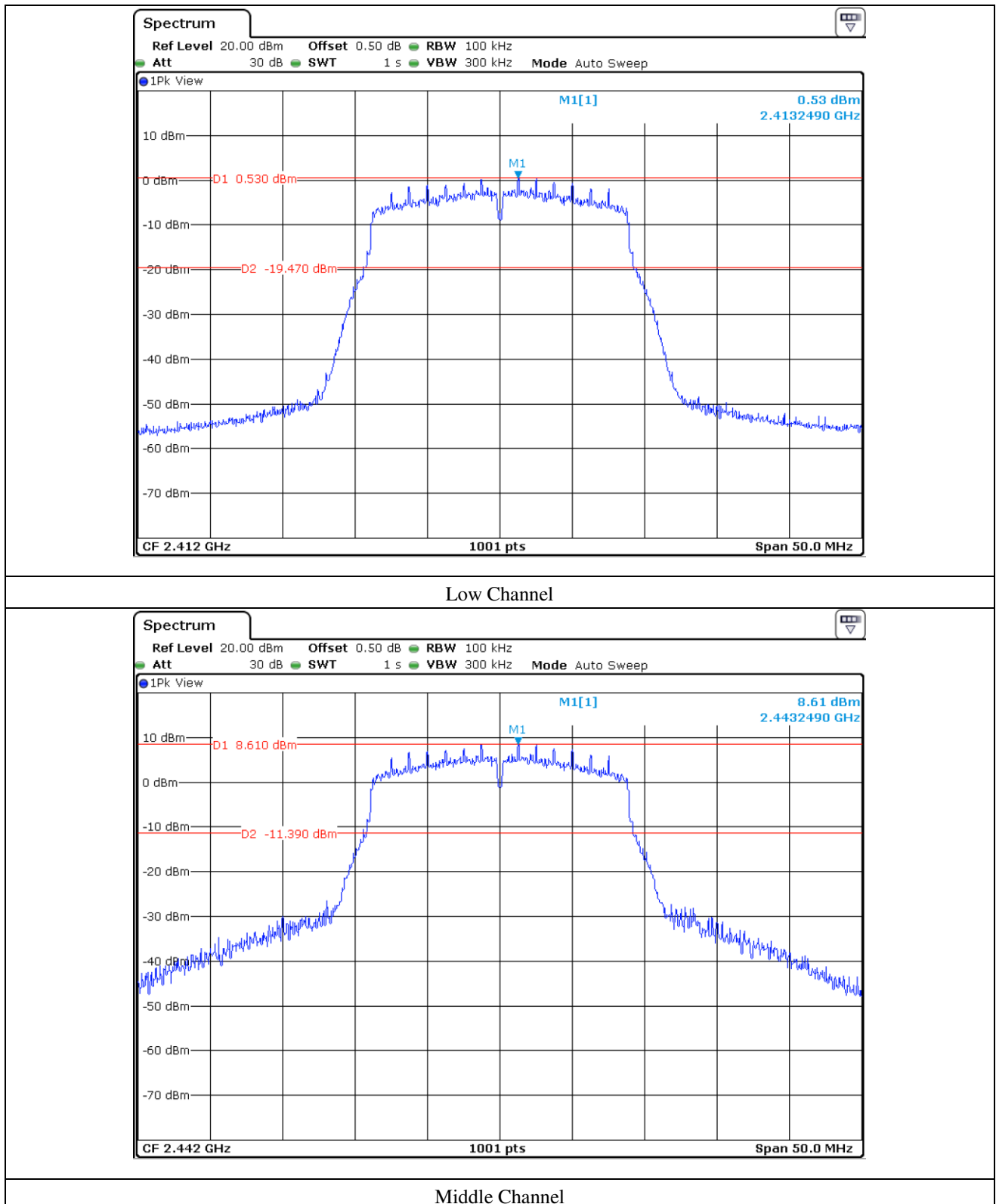
High Channel

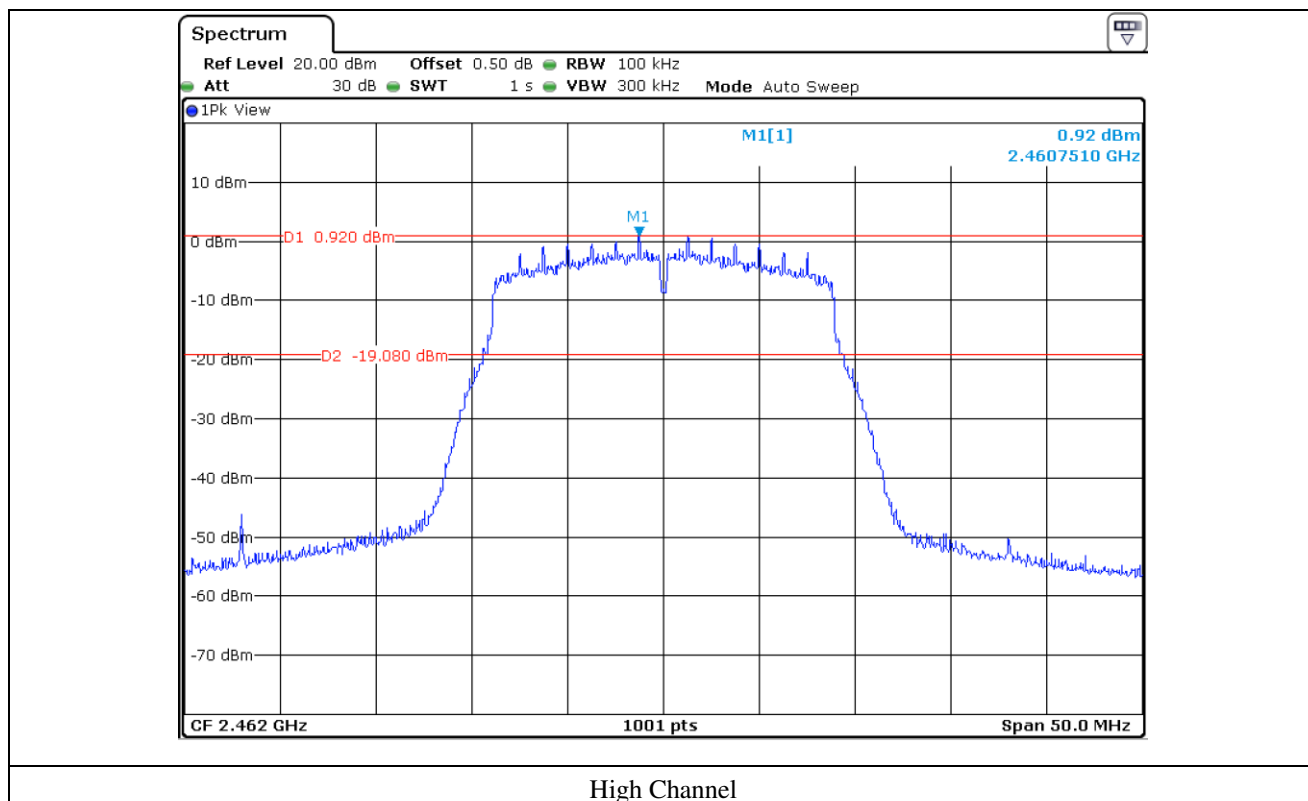


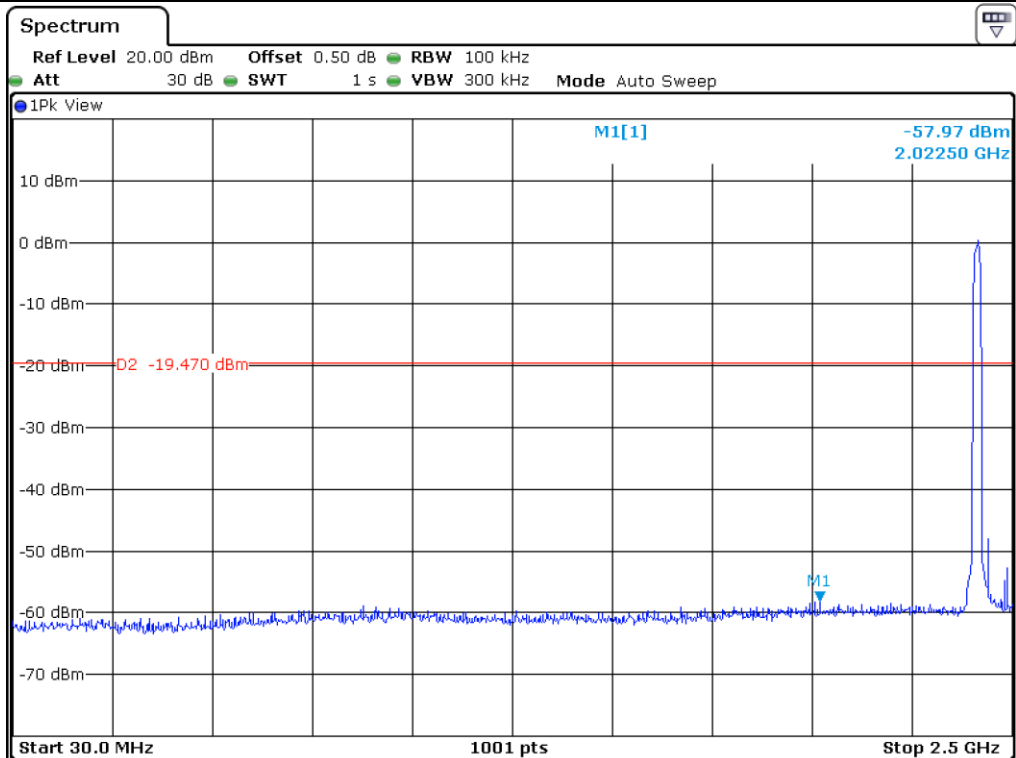
High Channel

9.5.2.3 Test data for 802.11n_HT20 WLAN Mode

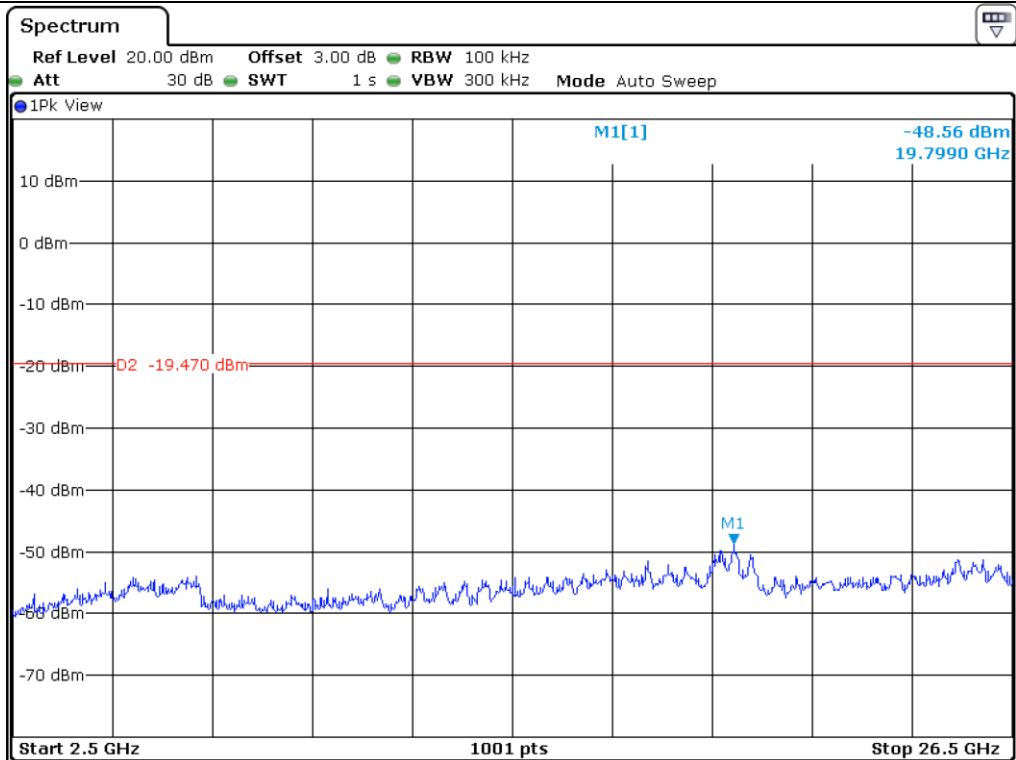
9.5.2.3.1 Test data for Antenna 0



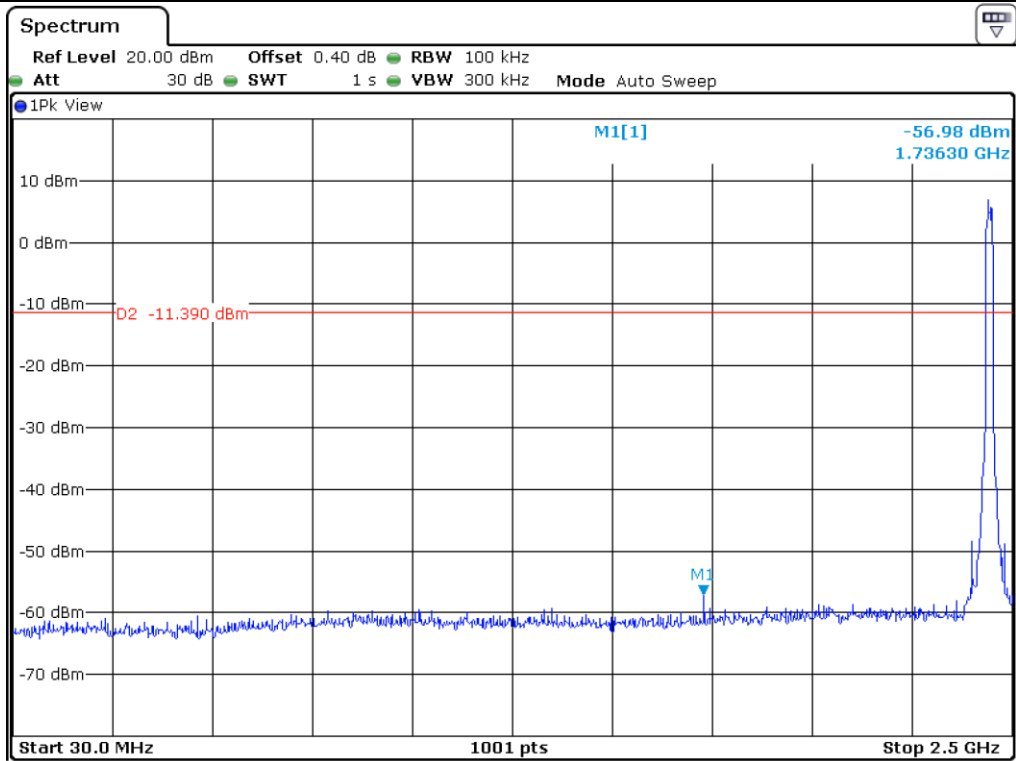




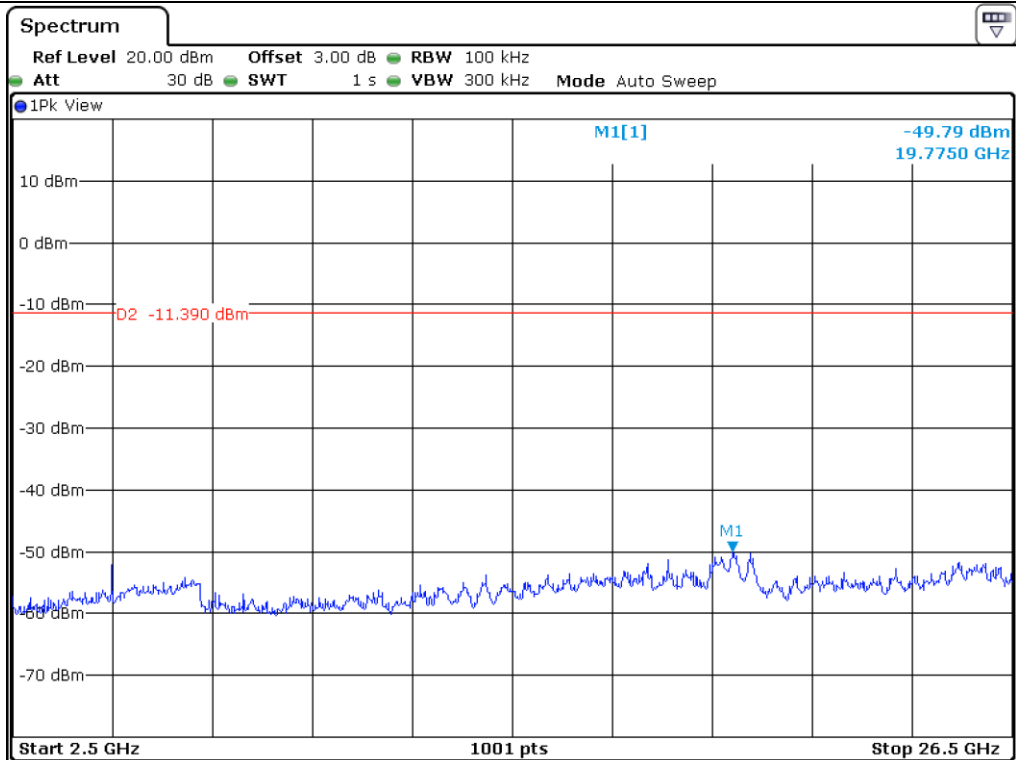
Low Channel



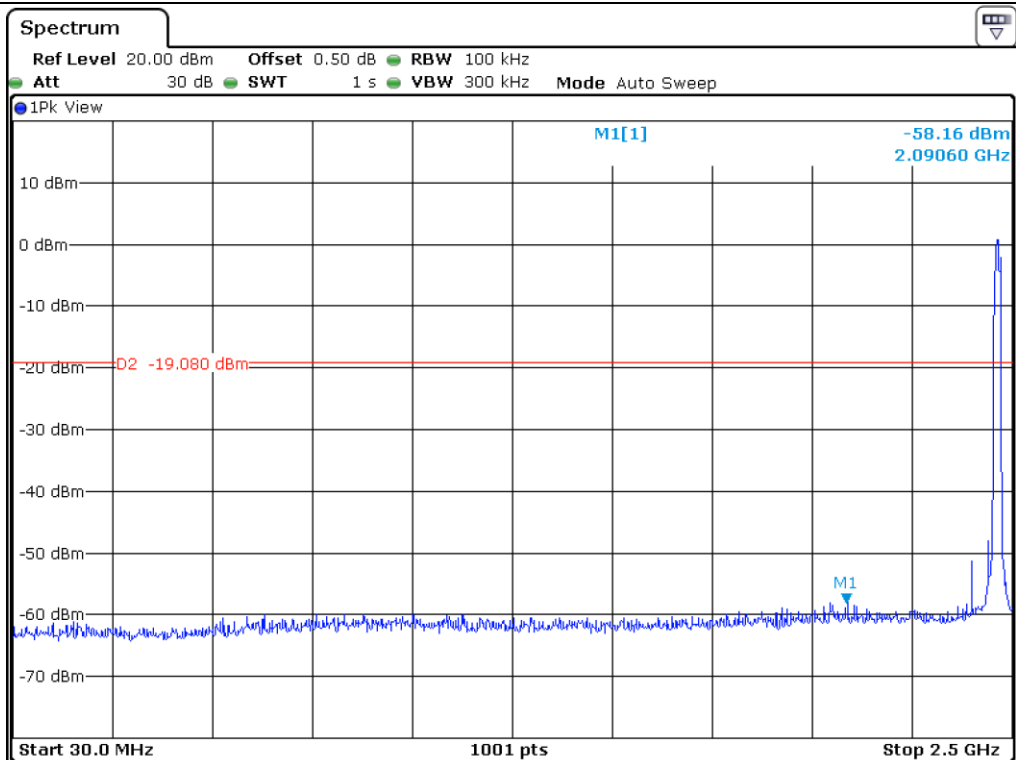
Low Channel



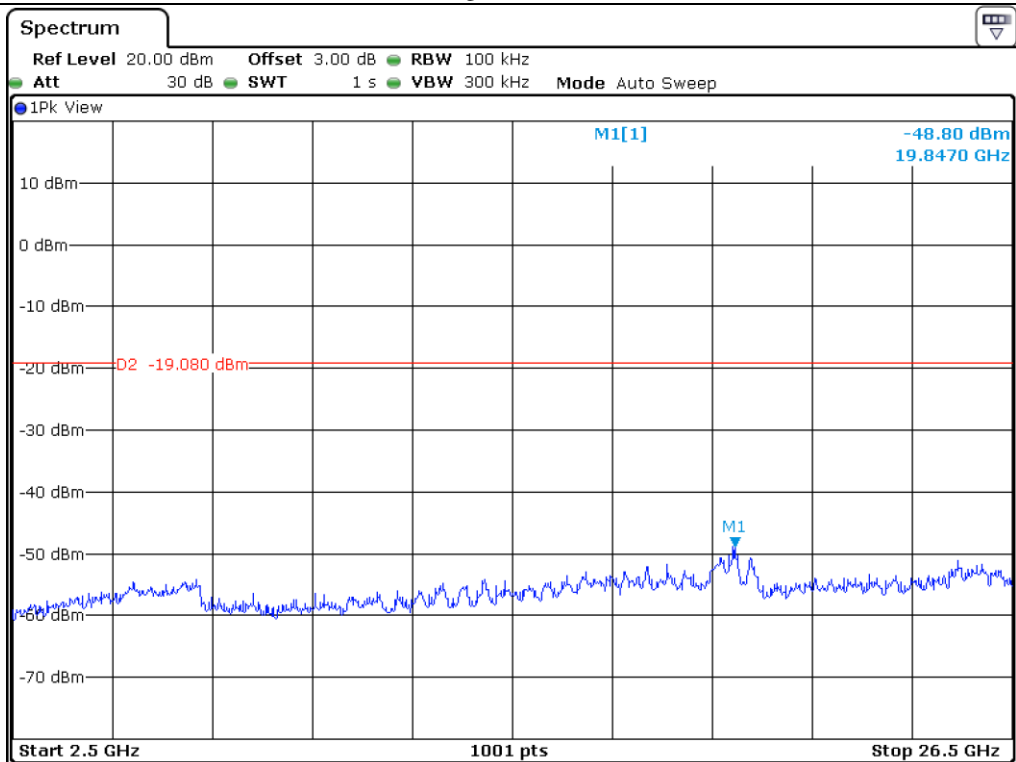
Middle Channel



Middle Channel

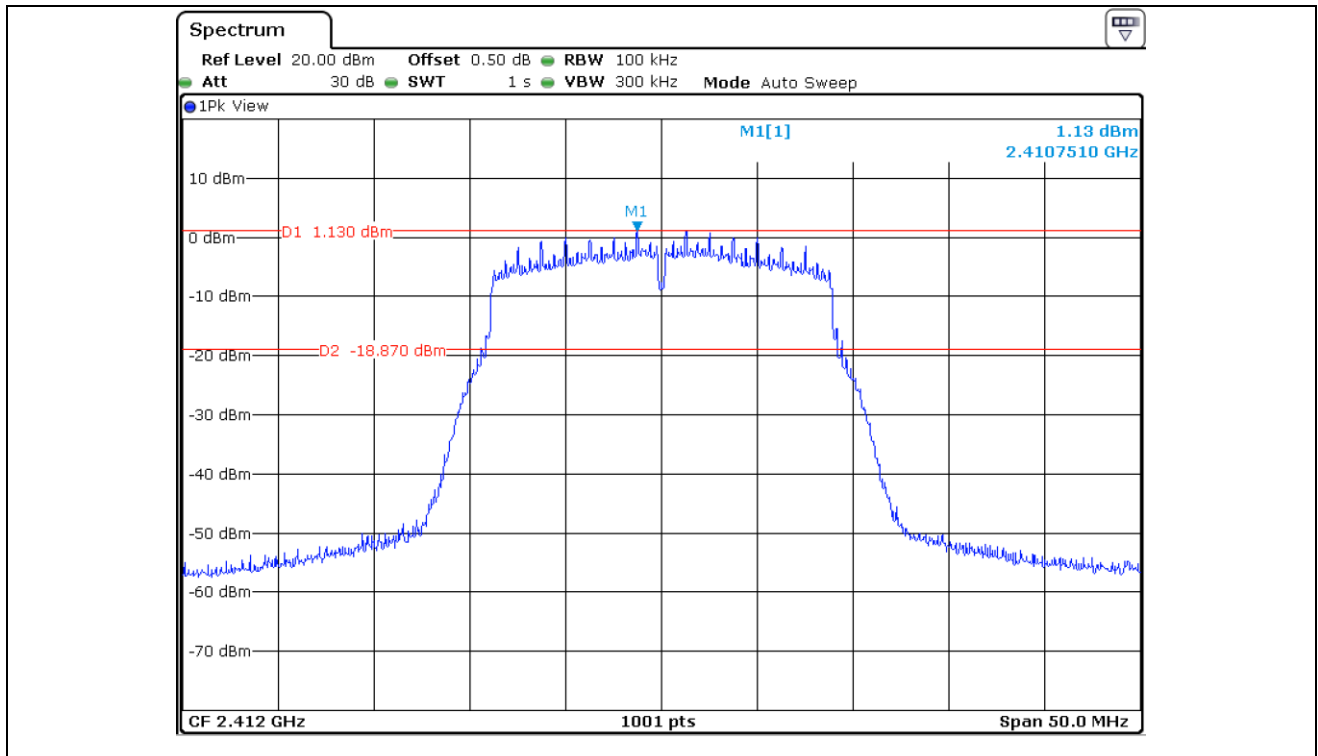


High Channel

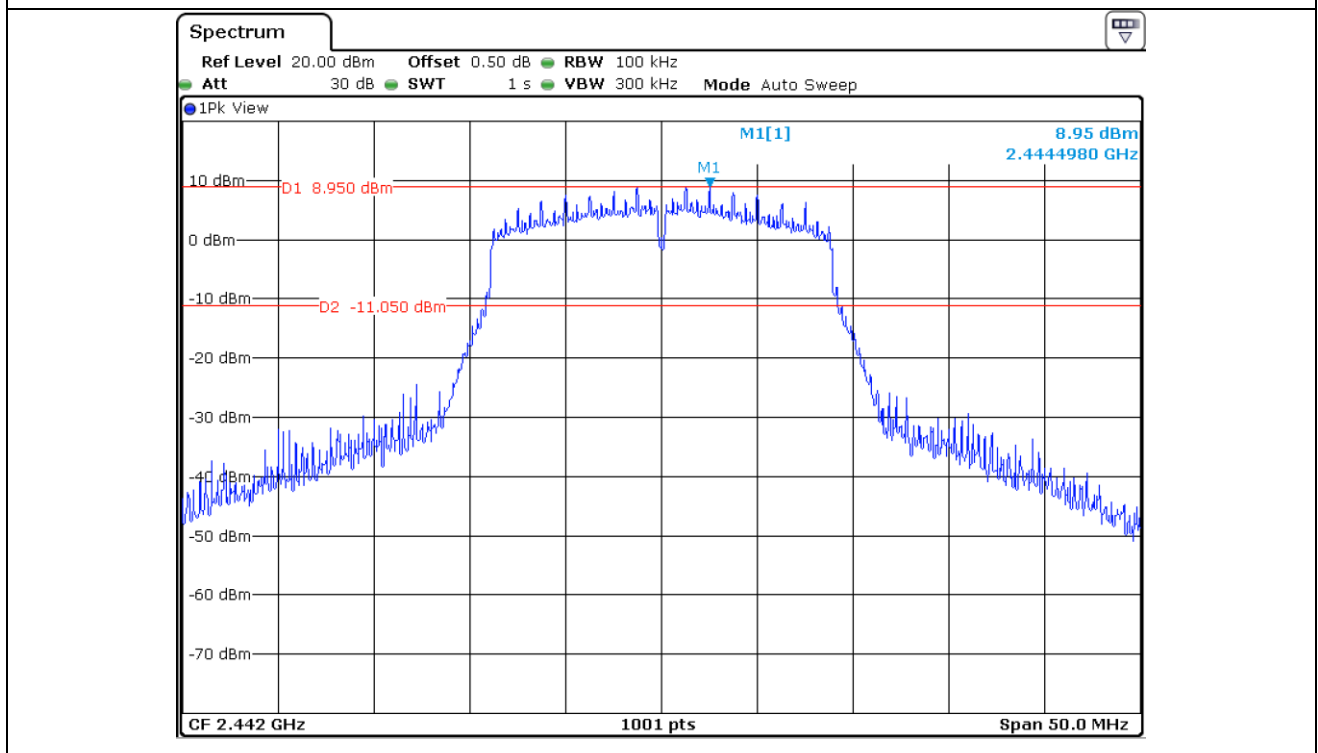


High Channel

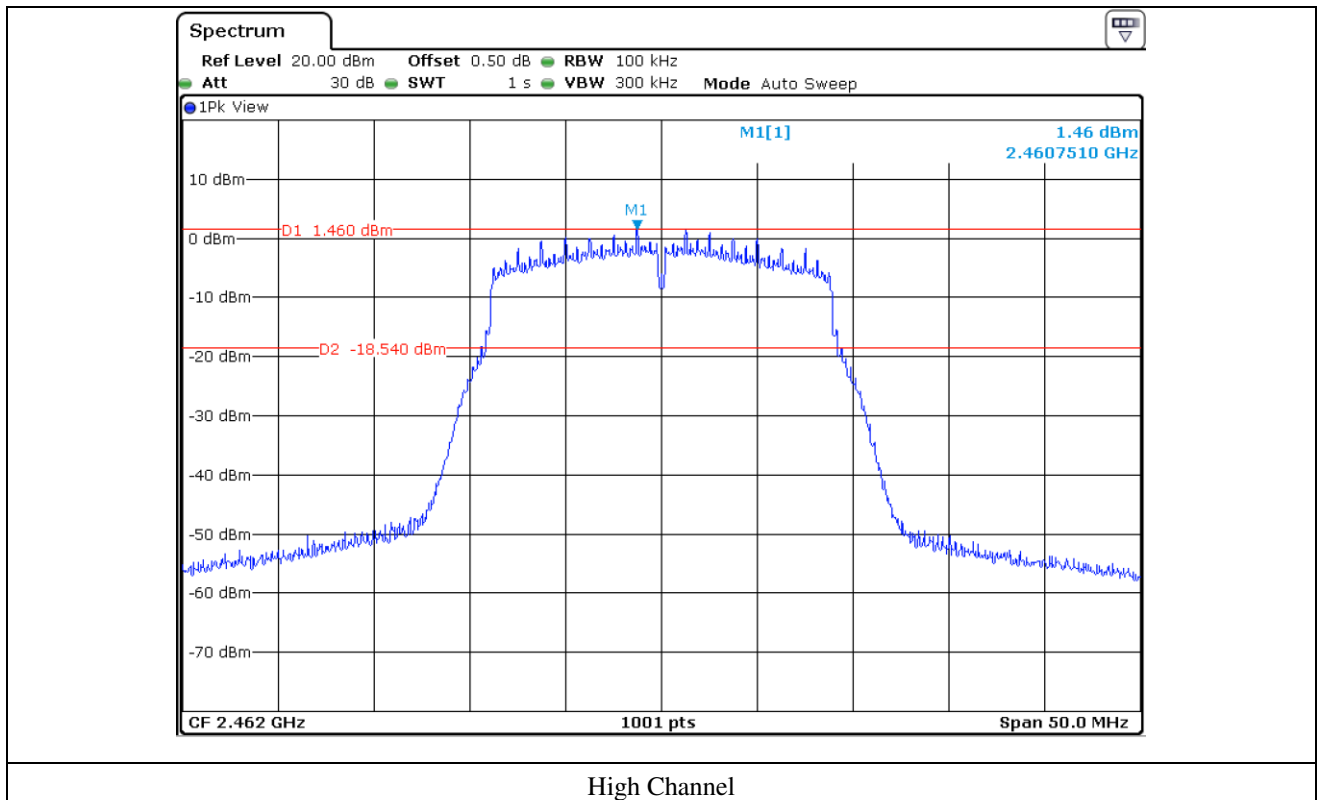
9.5.2.3.2 Test data for Antenna 1

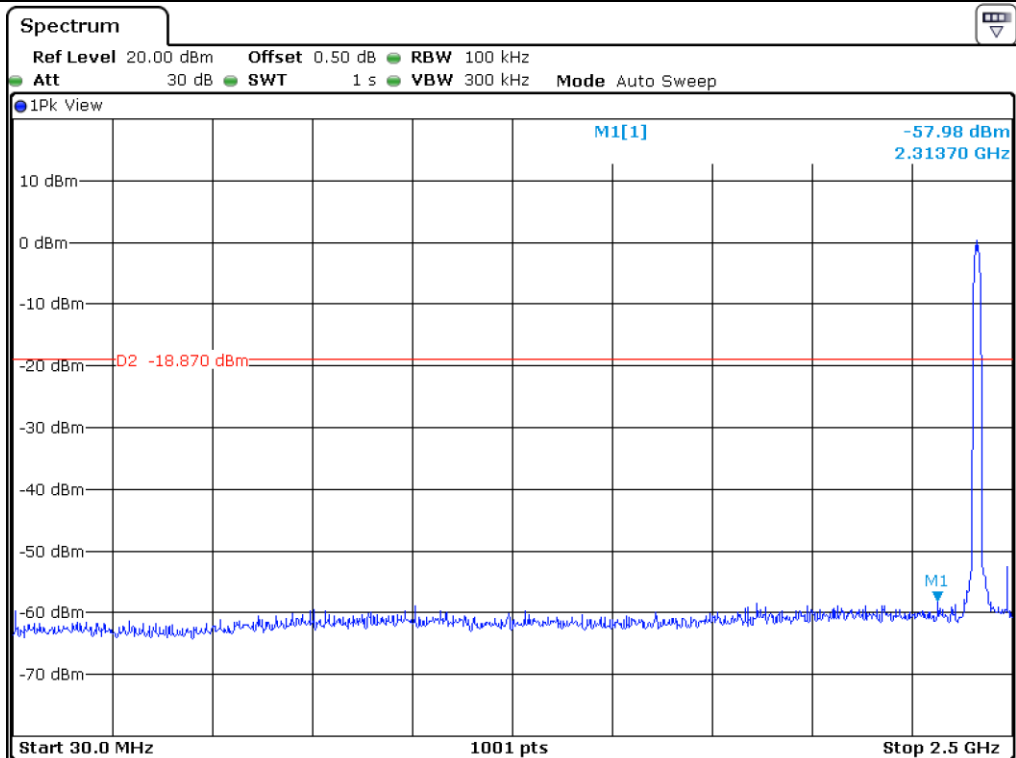


Low Channel

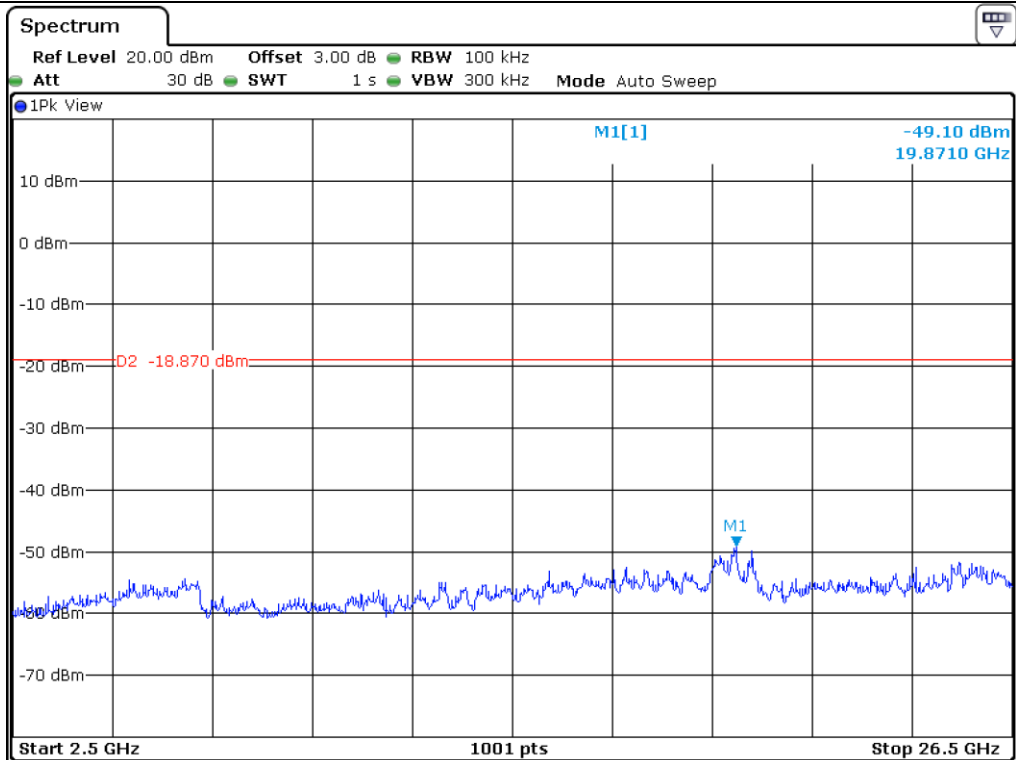


Middle Channel

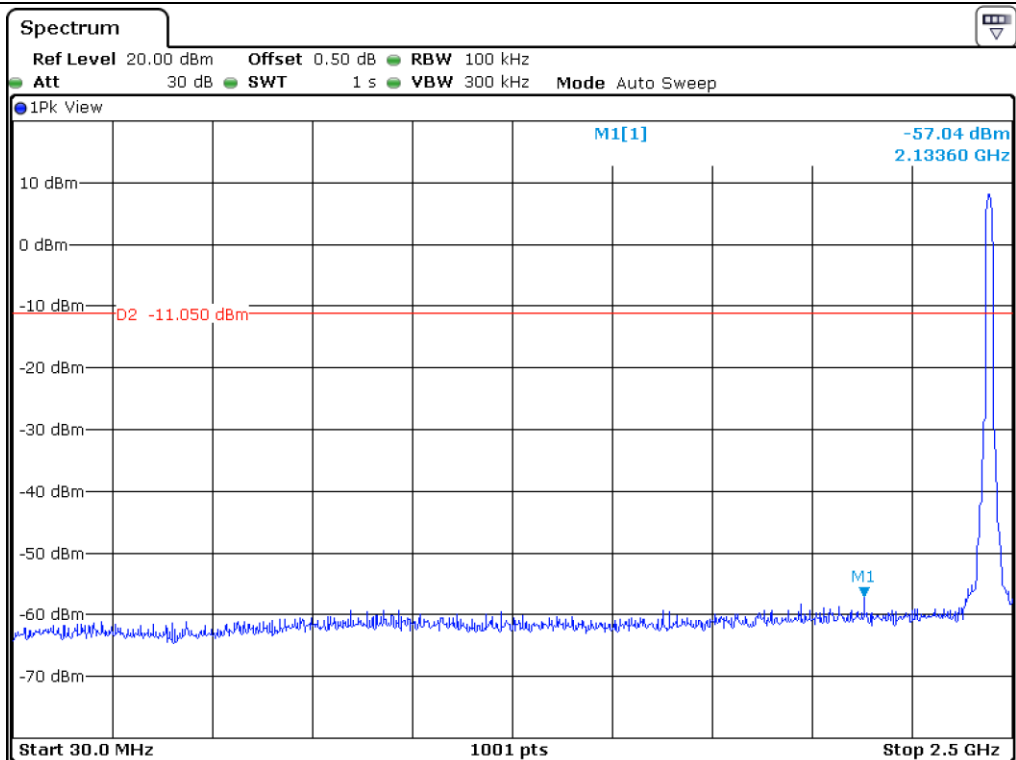




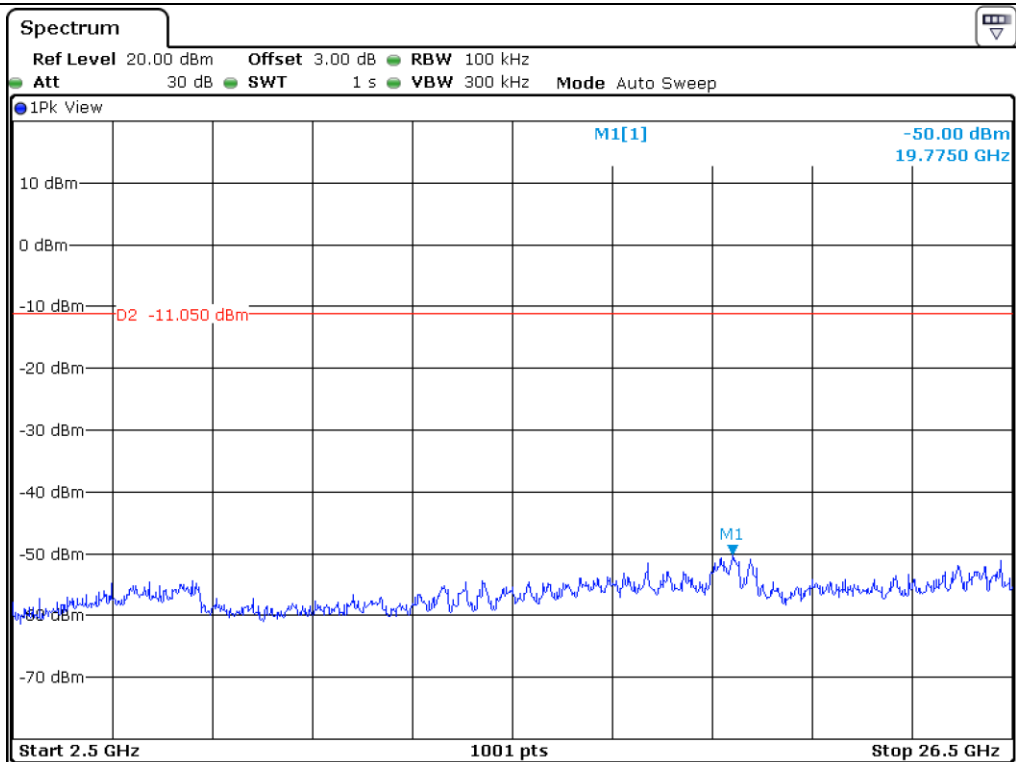
Low Channel



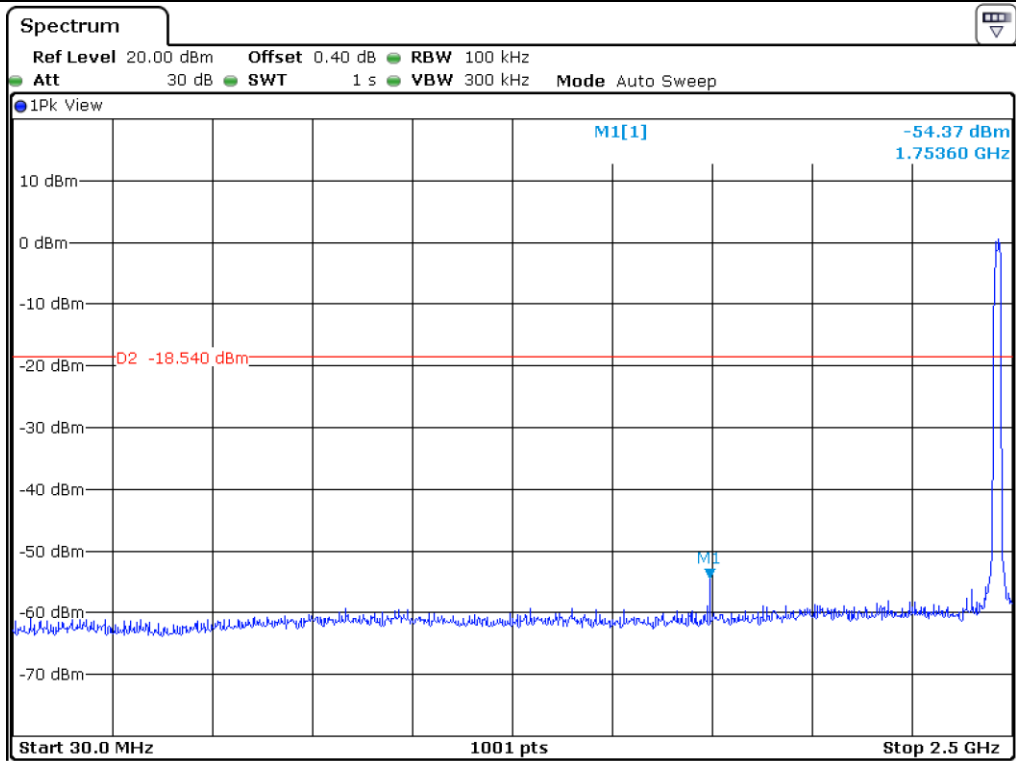
Low Channel



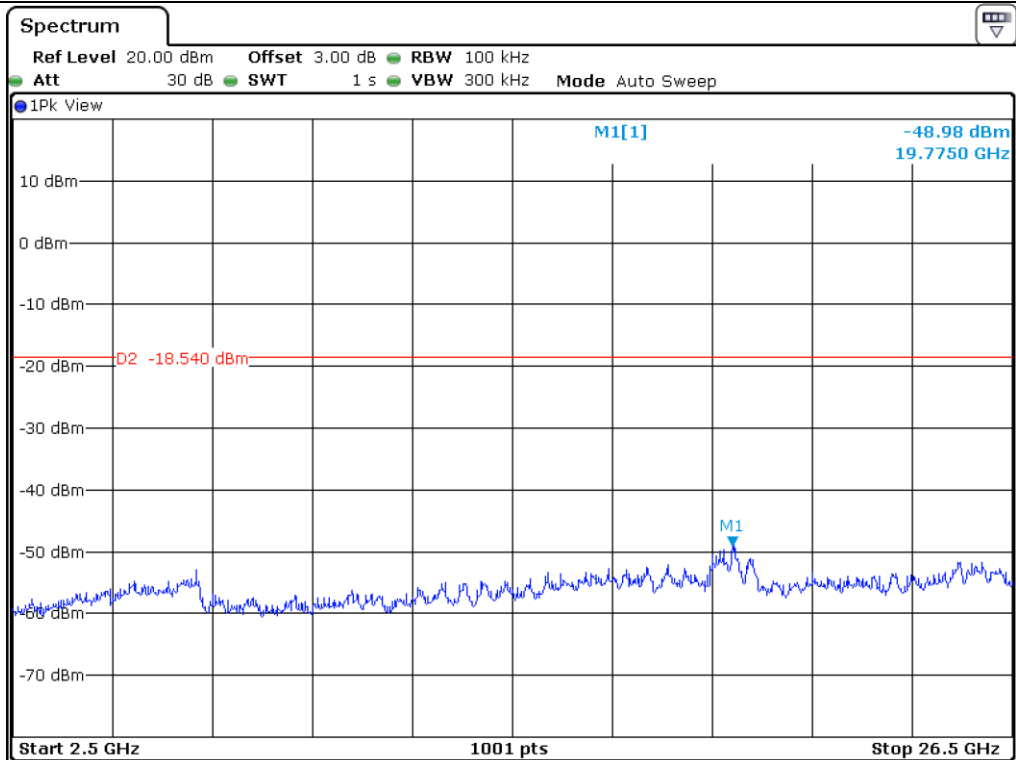
Middle Channel



Middle Channel

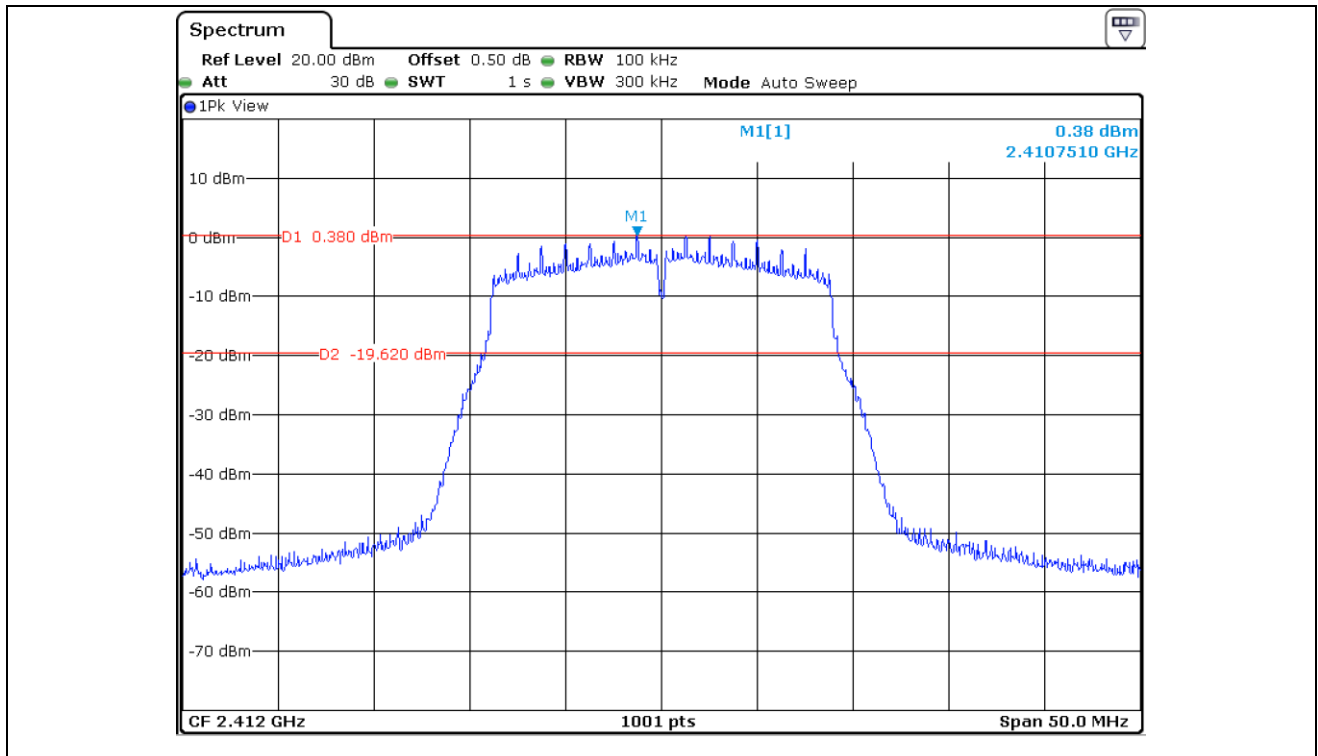


High Channel

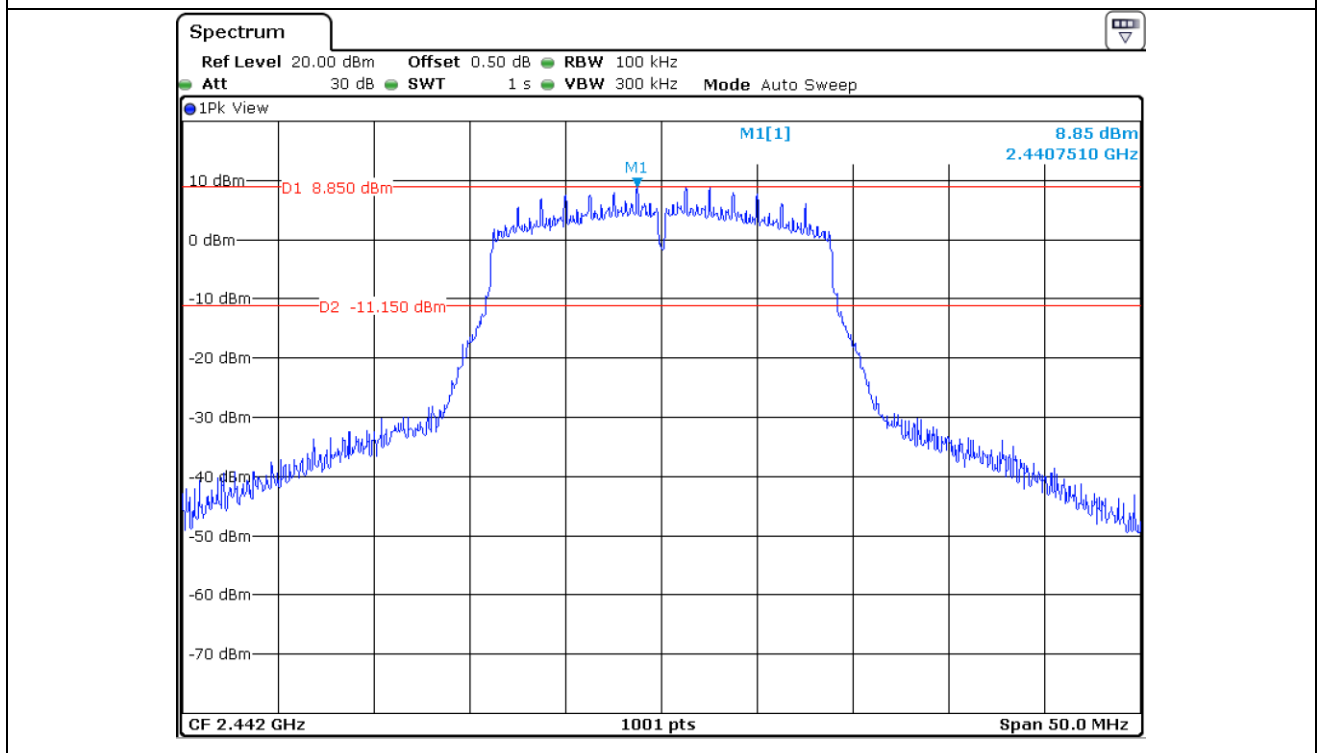


High Channel

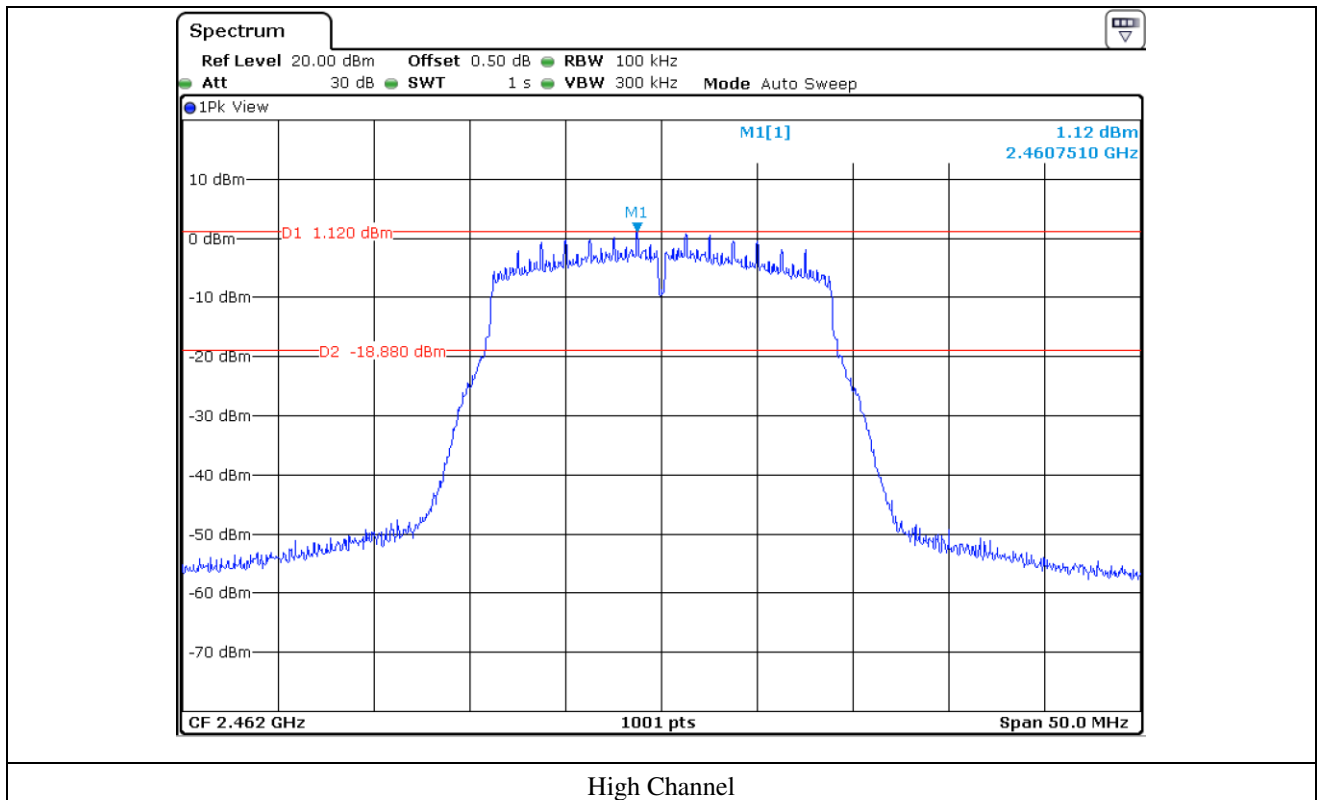
9.5.2.3.3 Test data for Antenna 2

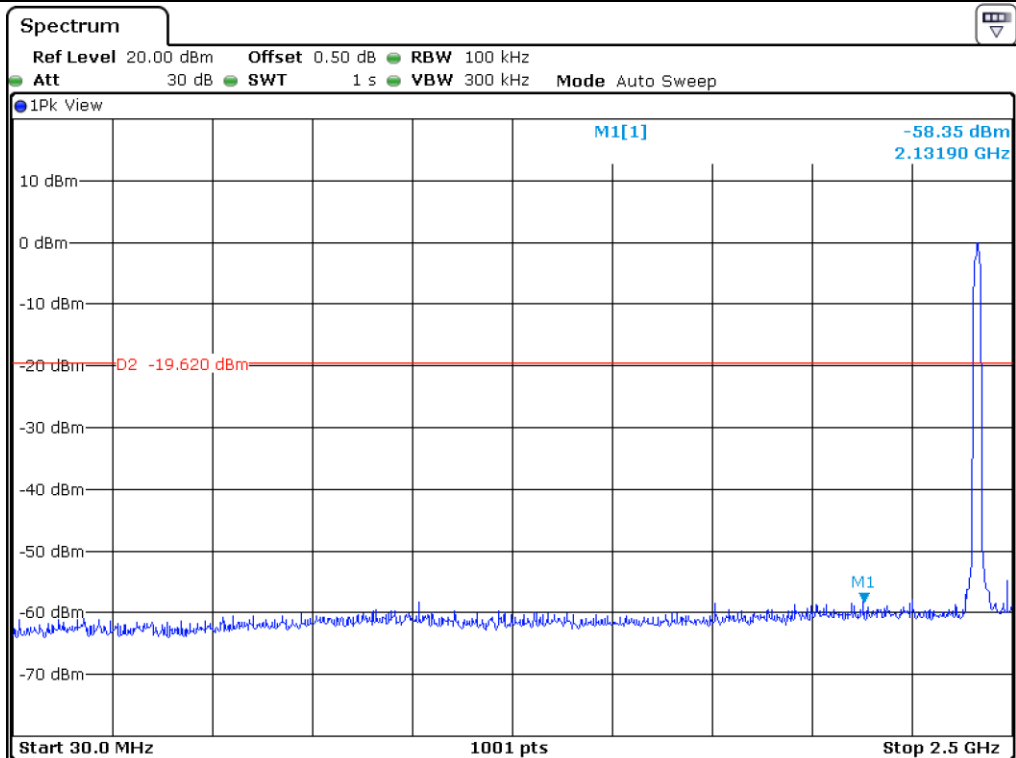


Low Channel

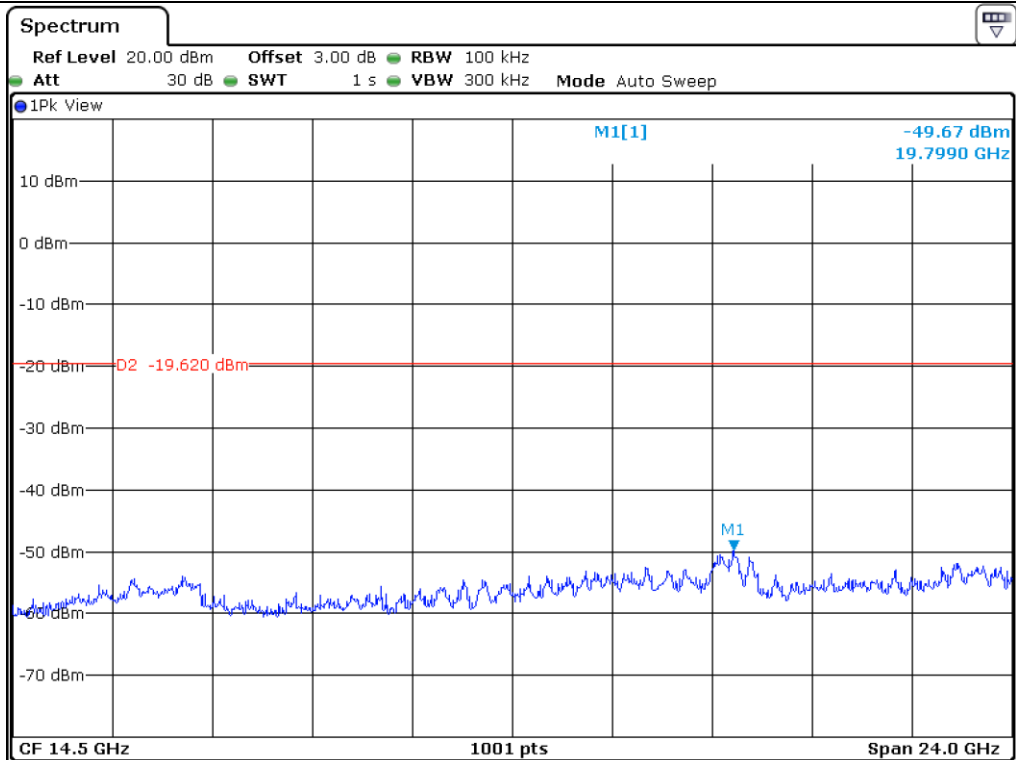


Middle Channel

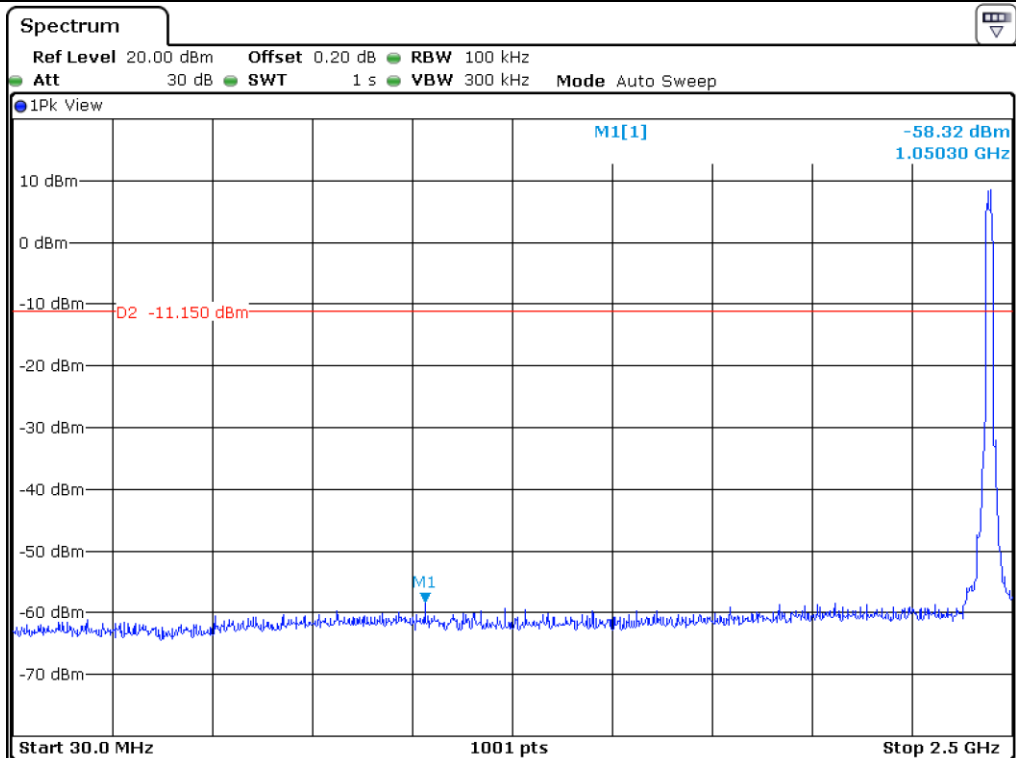




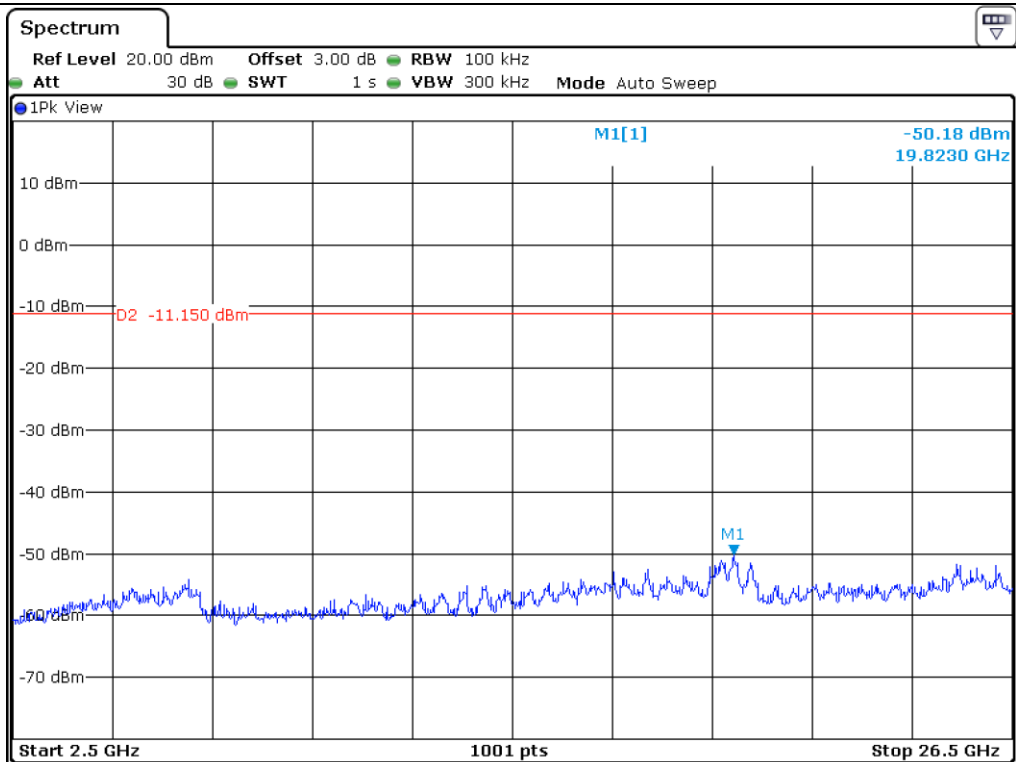
Low Channel



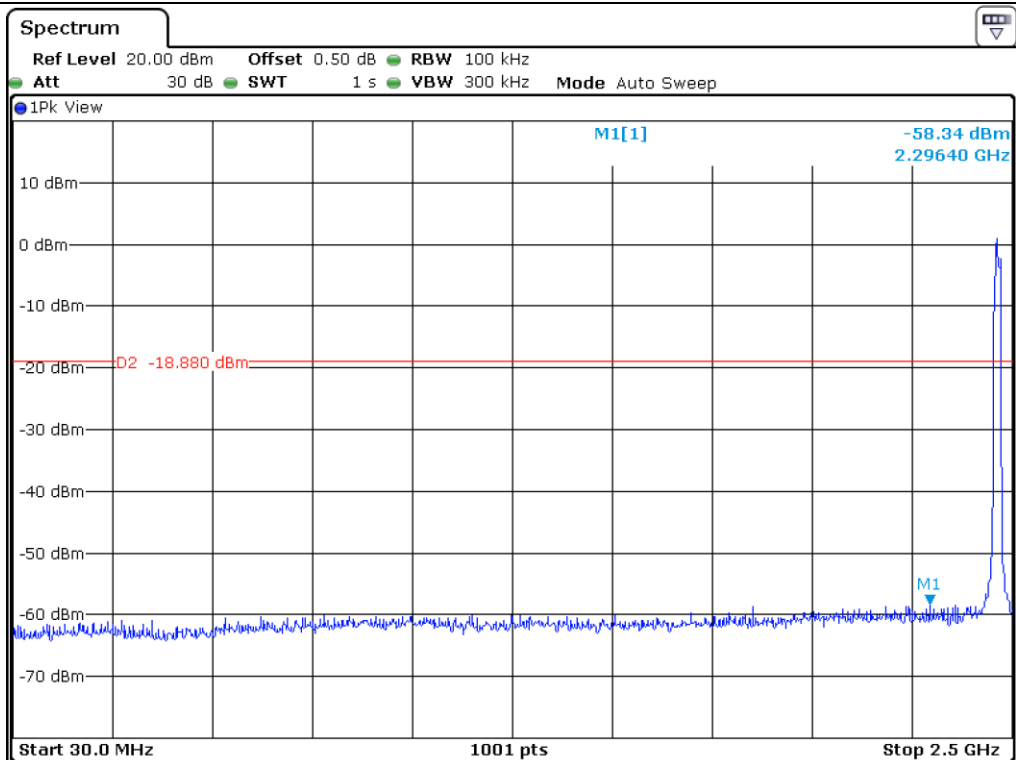
Low Channel



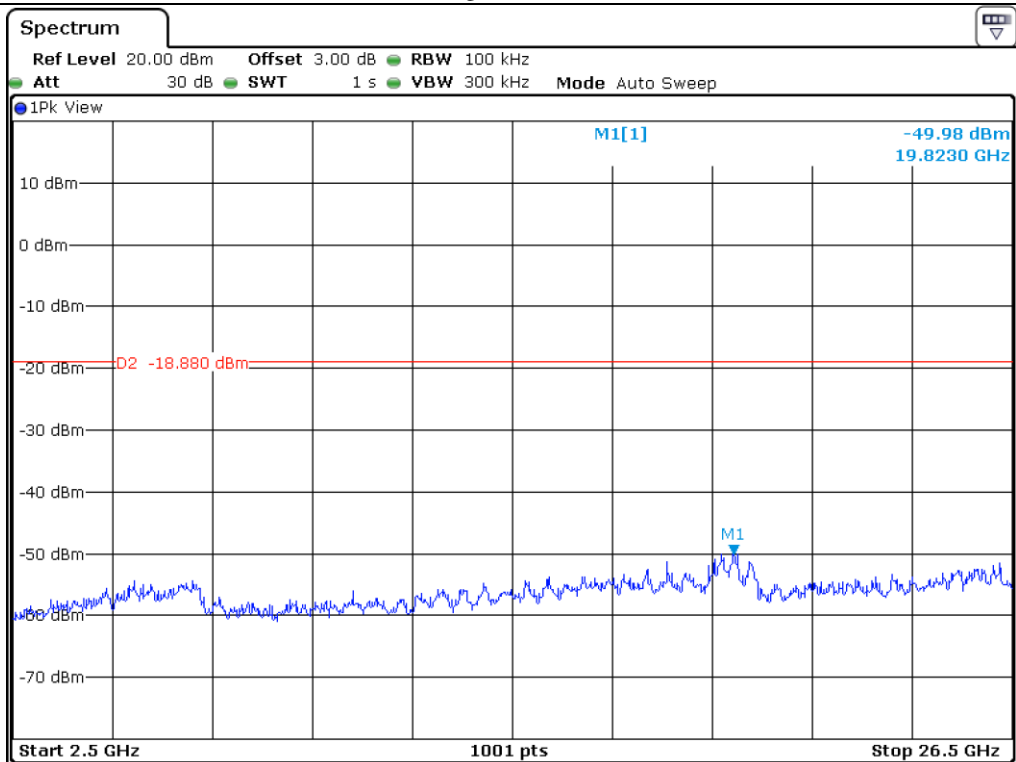
Middle Channel



Middle Channel

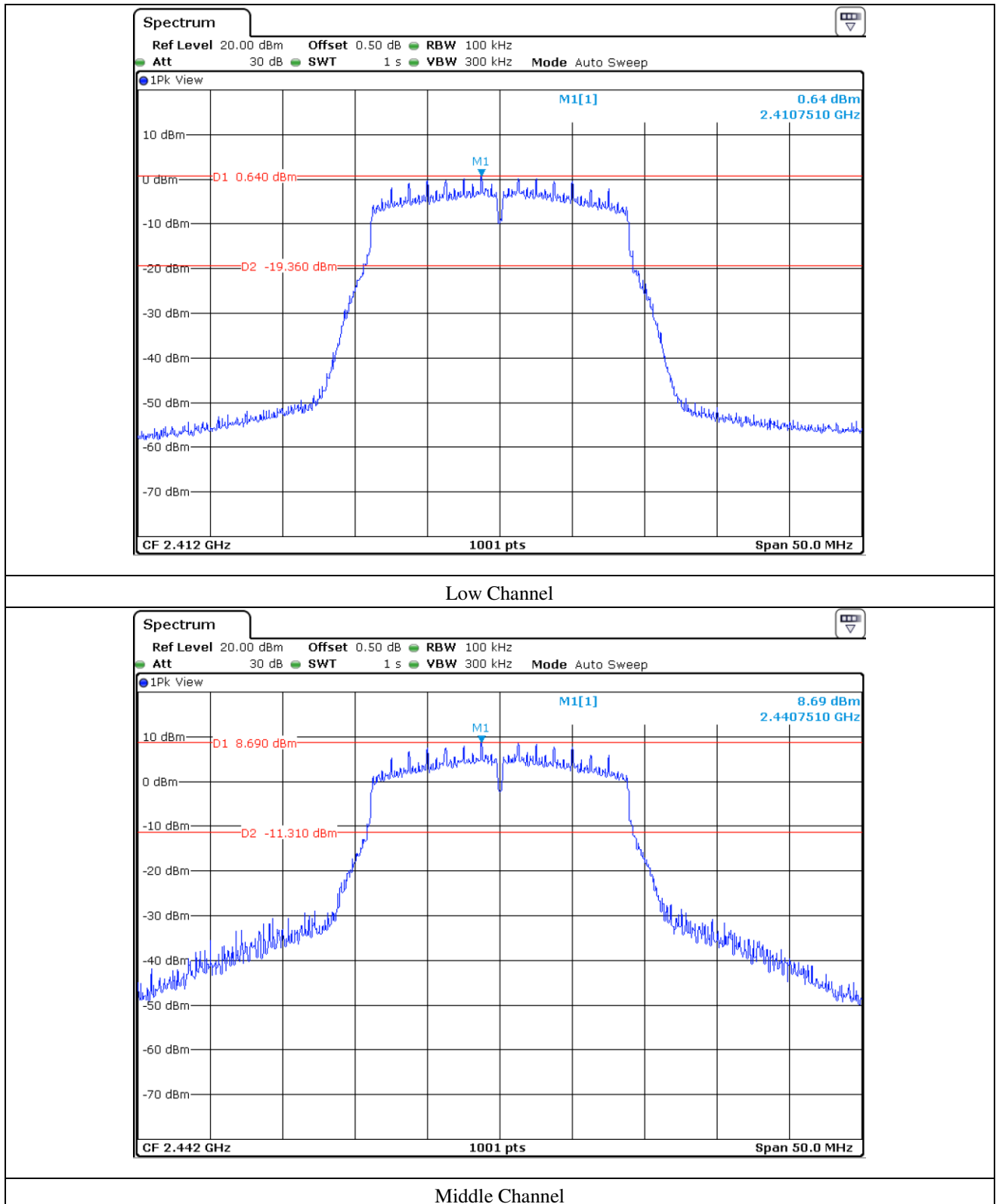


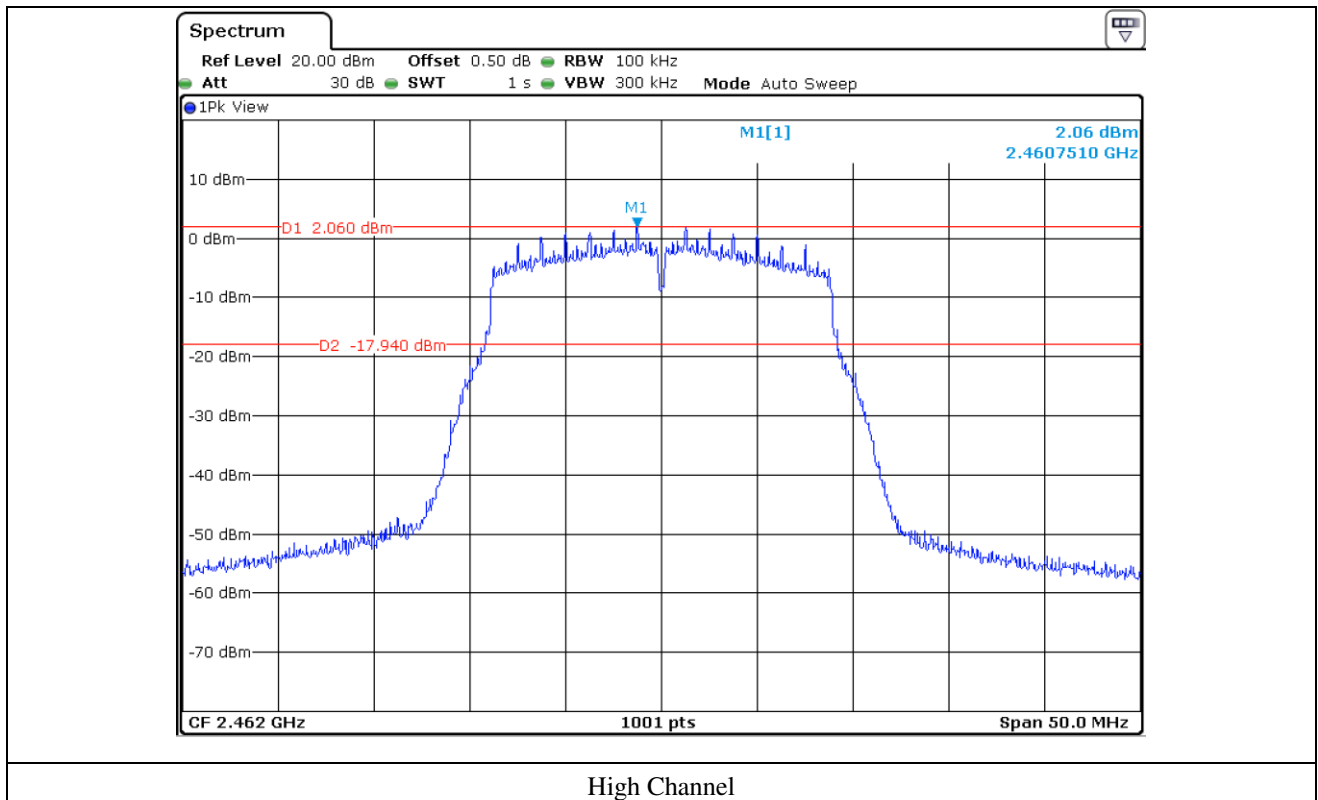
High Channel

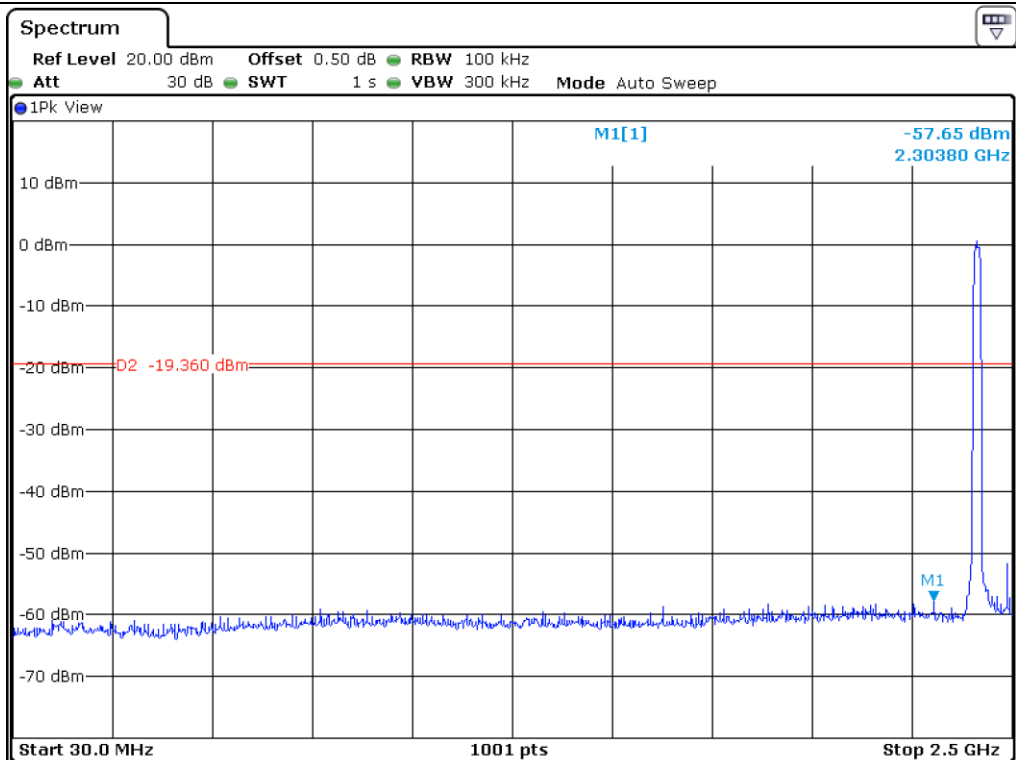


High Channel

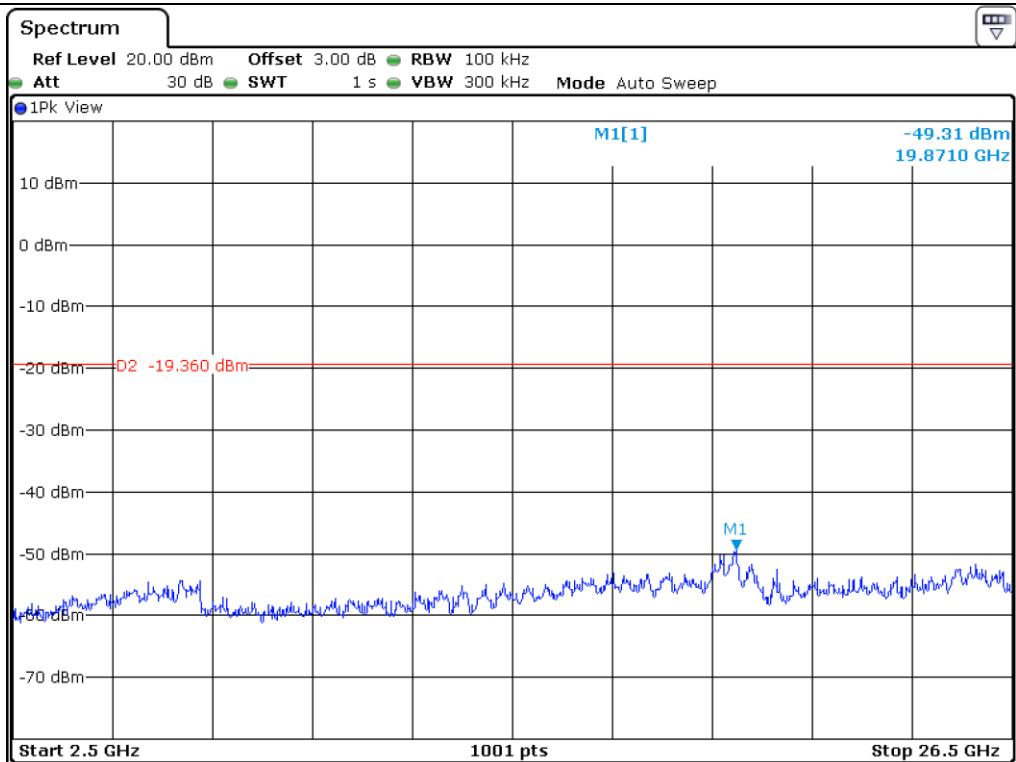
9.5.2.3.4 Test data for Antenna 3



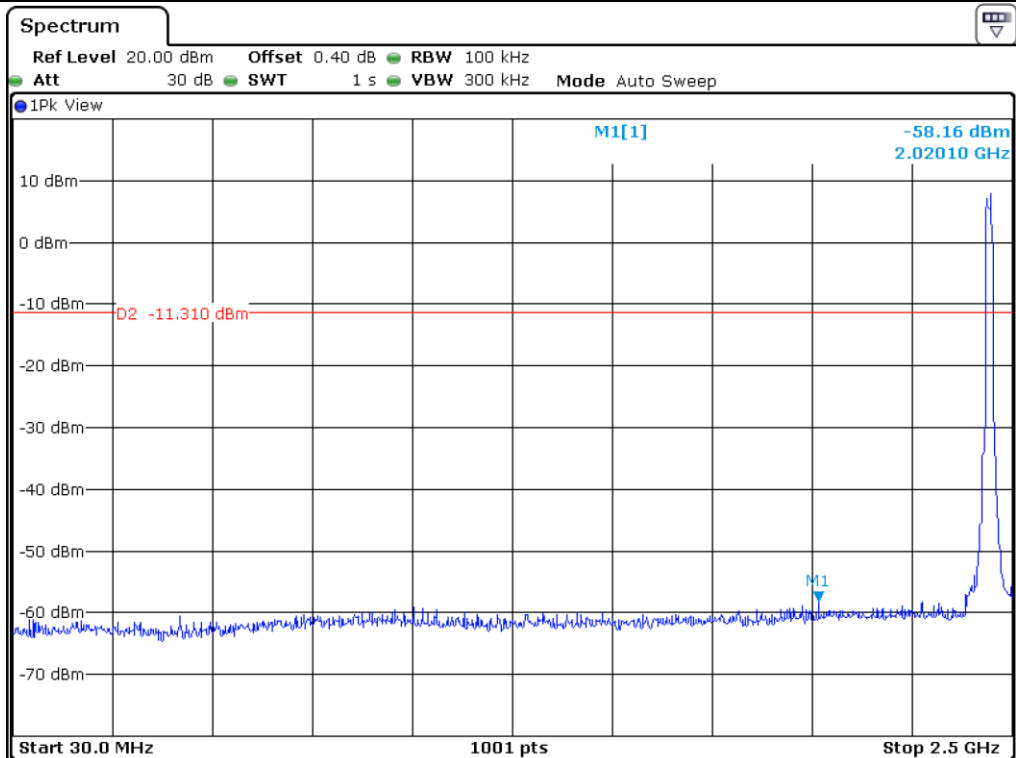




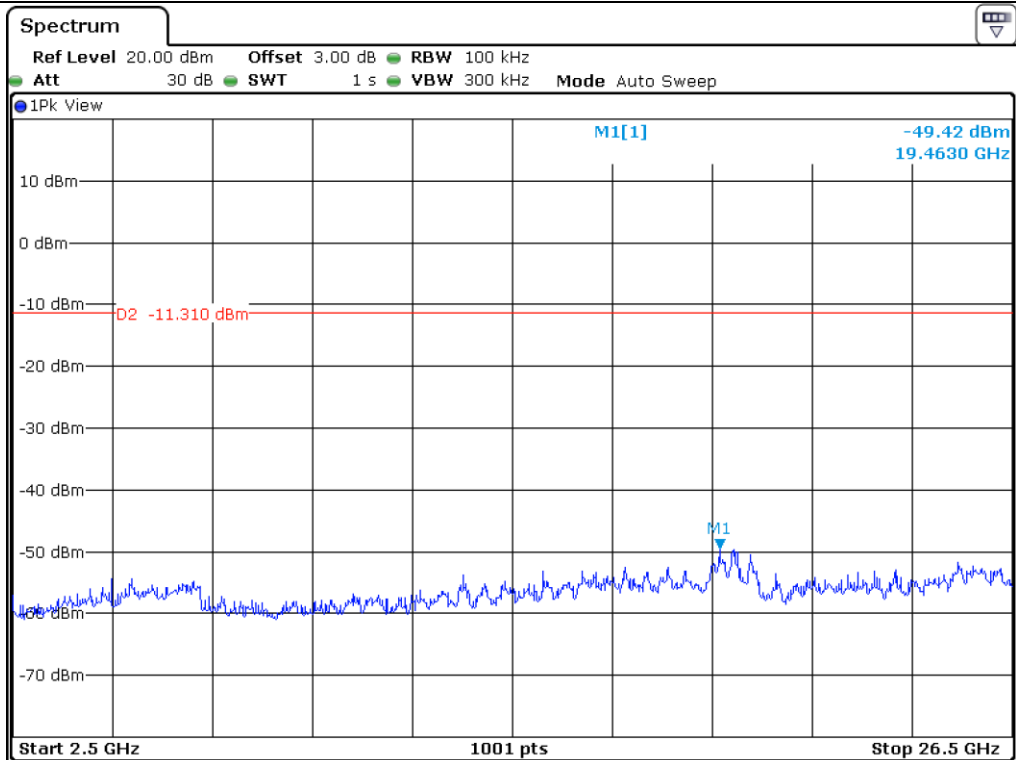
Low Channel



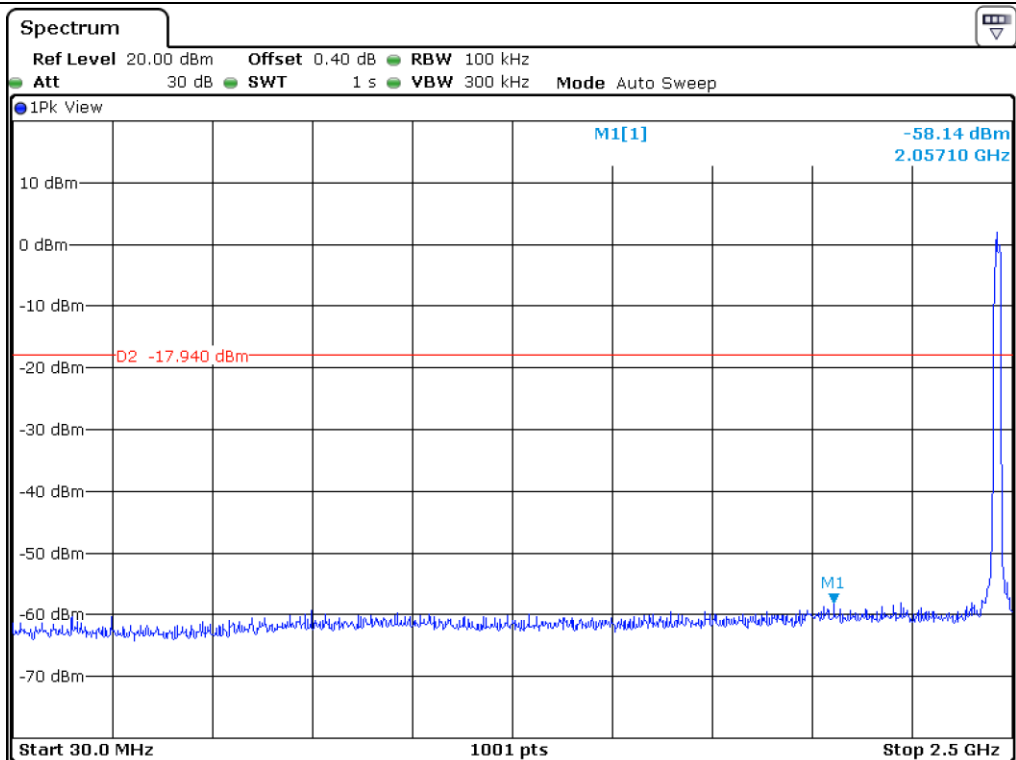
Low Channel



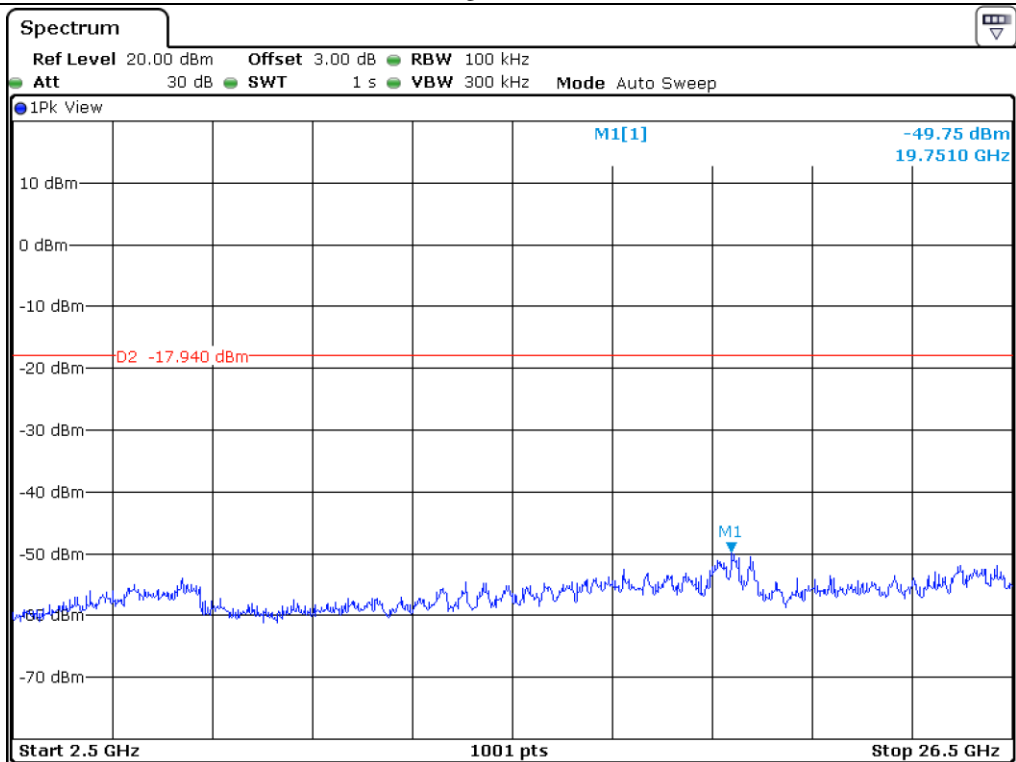
Middle Channel



Middle Channel



High Channel



High Channel

9.6 Test data for radiated emission

9.6.1 Radiated Emission which fall in the Restricted Band

9.6.1.1 Test data for Monitoring Port

9.6.1.1.1 Test data for 802.11b WLAN Mode

9.6.1.1.1.1 Test data for Multiple Transmit (Worst case)

- Test Date : June 29, 2016
- Resolution bandwidth : 1 MHz for Peak and Average Mode
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 30 MHz ~ 26.5 GHz
- Measurement distance : 3 m
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
2 389.98	58.38	Peak	H	27.20	11.00	40.20	56.38	74.00	17.62
	52.45	Average	H				50.45	54.00	3.55
2 388.00	54.27	Peak	V				52.27	74.00	21.73
	46.02	Average	V				44.02	54.00	9.98
Test Data for High Channel									
2 483.50	56.15	Peak	H	27.20	11.00	40.20	54.15	74.00	19.85
	49.76	Average	H				47.76	54.00	6.24
2 488.76	53.35	Peak	V				51.35	74.00	22.65
	45.25	Average	V				43.25	54.00	10.75

Tabulated test data for Restricted Band

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

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

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


Tested by: Min-Gu, Ji / Project Engineer

9.6.1.1.2 Test data for 802.11g WLAN Mode

9.6.1.1.2.1 Test data for Multiple Transmit (Worst case)

- Test Date : June 29, 2016
- Resolution bandwidth : 1 MHz for Peak and Average Mode
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 30 MHz ~ 26.5 GHz
- Measurement distance : 3 m
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
2 389.60	71.18	Peak	H	27.20	11.00	40.20	69.18	74.00	4.82
	52.44	Average	H				50.44	54.00	3.56
2 389.83	70.65	Peak	V				68.65	74.00	5.35
	52.59	Average	V				50.59	54.00	3.41
Test Data for High Channel									
2 483.50	60.57	Peak	H	27.20	11.00	40.20	58.57	74.00	15.43
	43.00	Average	H				41.00	54.00	13.00
2 483.86	70.80	Peak	V				68.80	74.00	5.20
	52.07	Average	V				50.07	54.00	3.93

Tabulated test data for Restricted Band

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

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

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



Tested by: Min-Gu, Ji / Project Engineer

9.6.1.2 Test data for Service Port

9.6.1.2.1 Test data for 802.11b WLAN Mode

9.6.1.2.1.1 Test data for Multiple Transmit (Worst case)

- Test Date : June 29, 2016
- Resolution bandwidth : 1 MHz for Peak and Average Mode
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 30 MHz ~ 26.5 GHz
- Measurement distance : 3 m
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
2 390.00	55.81	Peak	H	27.20	11.00	40.20	53.81	74.00	20.19
	54.16	Average	H				52.16	54.00	1.84
2 387.65	52.16	Peak	V				50.16	74.00	23.84
	42.73	Average	V				40.73	54.00	13.27
Test Data for High Channel									
2 483.58	55.84	Peak	H	27.20	11.00	40.20	53.84	74.00	20.16
	54.83	Average	H				52.83	54.00	1.17
2 483.53	47.22	Peak	V				45.22	74.00	28.78
	40.87	Average	V				38.87	54.00	15.13

Tabulated test data for Restricted Band

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

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

Total Level = Reading + Antenna Factor + Cable Loss – Pre-Amplifier Gain



Tested by: Min-Gu, Ji / Project Engineer

9.6.1.2.2 Test data for 802.11g WLAN Mode

9.6.1.2.2.1 Test data for Multiple Transmit (Worst case)

- Test Date : June 29, 2016
- Resolution bandwidth : 1 MHz for Peak and Average Mode
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 30 MHz ~ 26.5 GHz
- Measurement distance : 3 m
- Result : PASSED

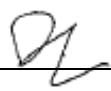
Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
2 389.99	69.44	Peak	H	27.20	11.00	40.20	67.44	74.00	6.56
	52.85	Average	H				50.85	54.00	3.15
2 389.99	65.72	Peak	V				63.72	74.00	10.28
	49.93	Average	V				47.93	54.00	6.07
Test Data for High Channel									
2 483.50	72.14	Peak	H	27.20	11.00	40.20	70.14	74.00	3.86
	54.67	Average	H				52.67	54.00	1.33
2 483.58	64.18	Peak	V				62.18	74.00	11.82
	47.32	Average	V				45.32	54.00	8.68

Tabulated test data for Restricted Band

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

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

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


 Tested by: Min-Gu, Ji / Project Engineer

9.6.1.1.3 Test data for 802.11n_HT20 WLAN Mode

9.6.1.1.3.1 Test data for Multiple Transmit (Worst case)

- Test Date : June 29, 2016
- Resolution bandwidth : 1 MHz for Peak and Average Mode
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 30 MHz ~ 26.5 GHz
- Measurement distance : 3 m
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
2 389.93	69.09	Peak	H	27.10	11.00	40.20	66.99	74.00	7.01
	53.09	Average	H				50.99	54.00	3.01
2 389.93	66.39	Peak	V				64.29	74.00	9.71
	50.25	Average	V				48.15	54.00	5.85
Test Data for High Channel									
2 483.53	70.99	Peak	H	27.10	11.00	40.20	68.89	74.00	5.11
	53.36	Average	H				51.26	54.00	2.74
2 483.52	67.44	Peak	V				65.34	74.00	8.66
	48.56	Average	V				46.46	54.00	7.54

Tabulated test data for Restricted Band

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

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

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



Tested by: Min-Gu, Ji / Project Engineer

9.6.2 Spurious & Harmonic Radiated Emission

9.6.2.1 Test data for Monitoring Port

9.6.2.1.1 Test data for 802.11b WLAN Mode

9.6.2.1.1.1 Test data for Multiple Transmit (Worst case)

- Test Date : June 29, 2016
- Resolution bandwidth : 1 MHz for Peak and Average Mode for the emissions fall in restricted band,
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Result : PASSED

Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
4 824.00	55.20	Peak	H	30.60	11.10	42.50	54.40	74.00	19.60
	38.37	Average	H				37.57	54.00	16.43
	58.99	Peak	V				58.19	74.00	15.81
	36.26	Average	V				35.46	54.00	18.54
Test Data for Middle Channel									
4 884.00	60.12	Peak	H	30.70	11.20	42.50	59.52	74.00	14.48
	37.49	Average	H				36.89	54.00	17.11
	58.25	Peak	V				57.65	74.00	16.35
	35.53	Average	V				34.93	54.00	19.07
Test Data for High Channel									
4 924.00	59.54	Peak	H	30.80	11.30	42.50	59.14	74.00	14.86
	36.71	Average	H				36.31	54.00	17.69
	58.11	Peak	V				57.71	74.00	16.29
	35.40	Average	V				35.00	54.00	19.00

Tabulated test data for Restricted Band

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

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

Total Level = Reading + Antenna Factor + Cable Loss – Pre-Amplifier Gain


Tested by: Min-Gu, Ji / Project Engineer

9.6.2.1.2 Test data for 802.11g WLAN Mode

9.6.2.1.2.1 Test data for Multiple Transmit (Worst case)

- Test Date : June 29, 2016
- Resolution bandwidth : 1 MHz for Peak and Average Mode for the emissions fall in restricted band,
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Result : PASSED

Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
4 824.00	54.18	Peak	H	30.60	11.10	42.50	53.38	74.00	20.62
	38.34	Average	H				37.54	54.00	16.46
	57.98	Peak	V				57.18	74.00	16.82
	36.84	Average	V				36.04	54.00	17.96
Test Data for Middle Channel									
4 884.00	59.82	Peak	H	30.70	11.20	42.50	59.22	74.00	14.78
	37.51	Average	H				36.91	54.00	17.09
	58.38	Peak	V				57.78	74.00	16.22
	36.15	Average	V				35.55	54.00	18.45
Test Data for High Channel									
4 924.00	59.51	Peak	H	30.80	11.30	42.50	59.11	74.00	14.89
	36.81	Average	H				36.41	54.00	17.59
	57.63	Peak	V				57.23	74.00	16.77
	36.24	Average	V				35.84	54.00	18.16

Tabulated test data for Restricted Band

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

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

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


 Tested by: Min-Gu, Ji / Project Engineer

9.6.2.2 Test data for Service Port

9.6.2.2.1 Test data for 802.11b WLAN Mode

9.6.2.2.1.1 Test data for Multiple Transmit (Worst case)

- Test Date : June 29, 2016
- Resolution bandwidth : 1 MHz for Peak and Average Mode for the emissions fall in restricted band,
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Result : PASSED

Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
4 824.00	44.66	Peak	H	30.60	9.30	43.40	41.16	74.00	32.84
	29.21	Average	H				25.71	54.00	28.29
	44.39	Peak	V				40.89	74.00	33.11
	28.46	Average	V				24.96	54.00	29.04
Test Data for Middle Channel									
4 884.00	43.21	Peak	H	30.70	9.30	43.40	39.81	74.00	34.19
	28.99	Average	H				25.59	54.00	28.41
	44.37	Peak	V				40.97	74.00	33.03
	28.88	Average	V				25.48	54.00	28.52
Test Data for High Channel									
4 924.00	44.28	Peak	H	30.80	9.30	43.40	40.98	74.00	33.02
	28.72	Average	H				25.42	54.00	28.58
	44.14	Peak	V				40.84	74.00	33.16
	28.72	Average	V				25.42	54.00	28.58

Tabulated test data for Restricted Band

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

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

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


Tested by: Min-Gu, Ji / Project Engineer

9.6.2.2.2 Test data for 802.11g WLAN Mode

9.6.2.2.2.1 Test data for Multiple Transmit (Worst case)

- Test Date : June 29, 2016
- Resolution bandwidth : 1 MHz for Peak and Average Mode for the emissions fall in restricted band,
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Result : PASSED

Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
4 824.00	44.07	Peak	H	30.60	9.30	43.40	40.57	74.00	33.43
	29.02	Average	H				25.52	54.00	28.48
	57.98	Peak	V				54.48	74.00	19.52
	36.84	Average	V				33.34	54.00	20.66
Test Data for Middle Channel									
4 884.00	59.82	Peak	H	30.70	9.30	43.40	56.42	74.00	17.58
	37.51	Average	H				34.11	54.00	19.89
	58.38	Peak	V				54.98	74.00	19.02
	36.15	Average	V				32.75	54.00	21.25
Test Data for High Channel									
4 924.00	44.01	Peak	H	30.80	9.30	43.40	40.71	74.00	33.29
	28.08	Average	H				24.78	54.00	29.22
	57.63	Peak	V				54.33	74.00	19.67
	36.24	Average	V				32.94	54.00	21.06

Tabulated test data for Restricted Band

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

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

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


 Tested by: Min-Gu, Ji / Project Engineer

9.6.2.2.3 Test data for 802.11n_HT20 WLAN Mode

9.6.2.2.3.1 Test data for Multiple Transmit (Worst case)

- Test Date : June 29, 2016
- Resolution bandwidth : 1 MHz for Peak and Average Mode for the emissions fall in restricted band,
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Result : PASSED

Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Amp Gain	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel									
4 824.00	41.30	Peak	H	30.60	9.30	43.40	37.80	74.00	36.20
	25.83	Average	H				22.33	54.00	31.67
	40.98	Peak	V				37.48	74.00	36.52
	25.80	Average	V				22.30	54.00	31.70
Test Data for Middle Channel									
4 884.00	41.24	Peak	H	30.70	9.30	43.40	37.84	74.00	36.16
	25.86	Average	H				22.46	54.00	31.54
	41.91	Peak	V				38.51	74.00	35.49
	25.81	Average	V				22.41	54.00	31.59
Test Data for High Channel									
4 924.00	41.06	Peak	H	30.80	9.30	43.40	37.76	74.00	36.24
	25.85	Average	H				22.55	54.00	31.45
	41.54	Peak	V				38.24	74.00	35.76
	25.81	Average	V				22.51	54.00	31.49

Tabulated test data for Restricted Band

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

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

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


 Tested by: Min-Gu, Ji / Project Engineer