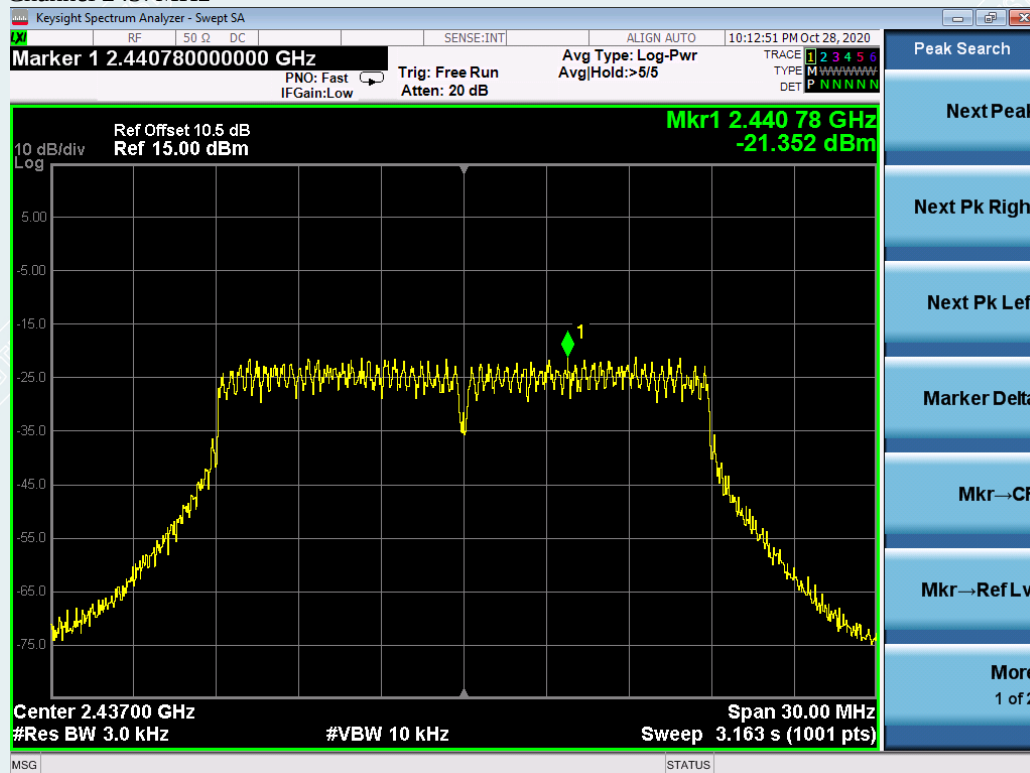
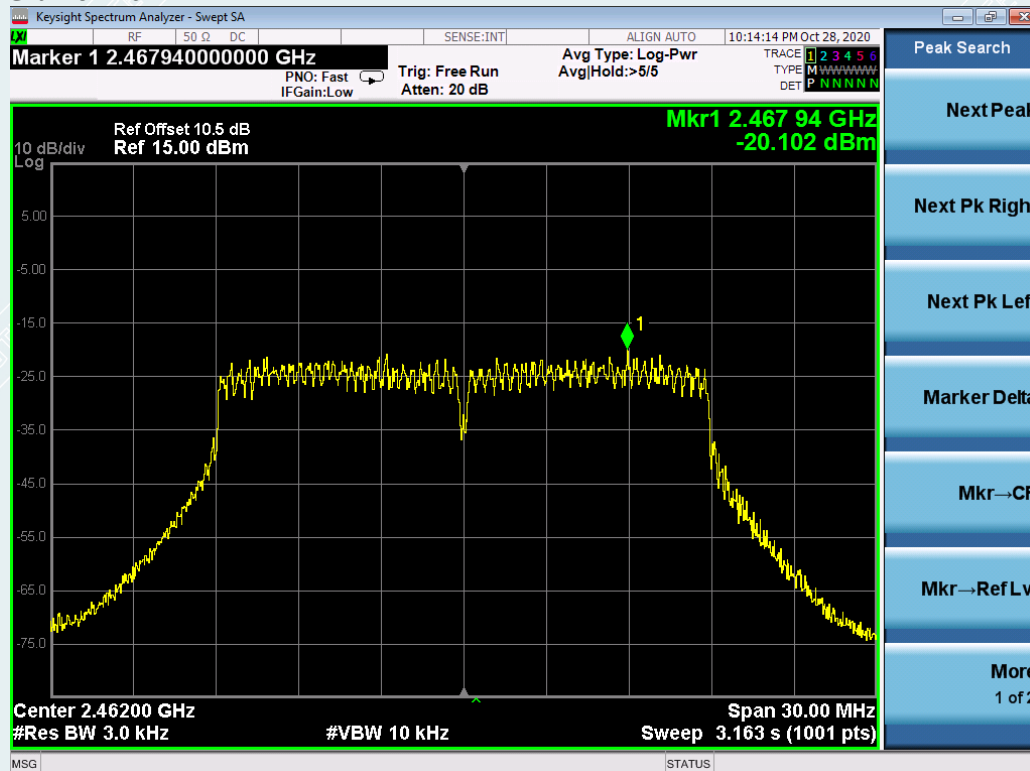


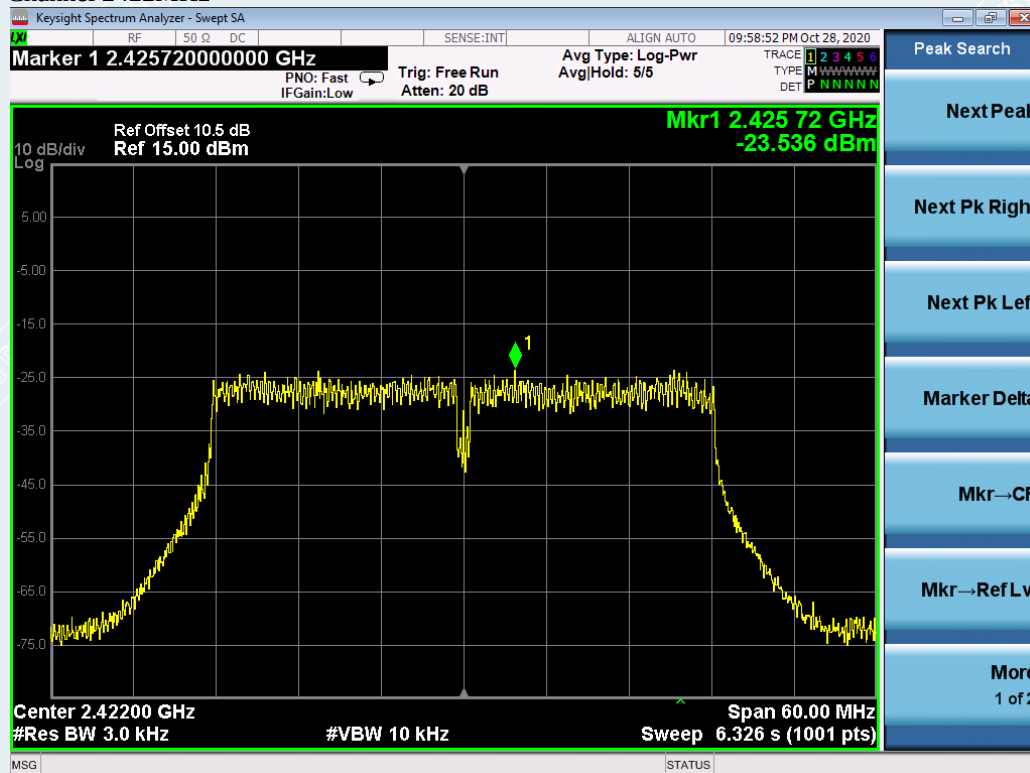
802.11n HT20 mode (antenna 2):
Channel 2437MHz



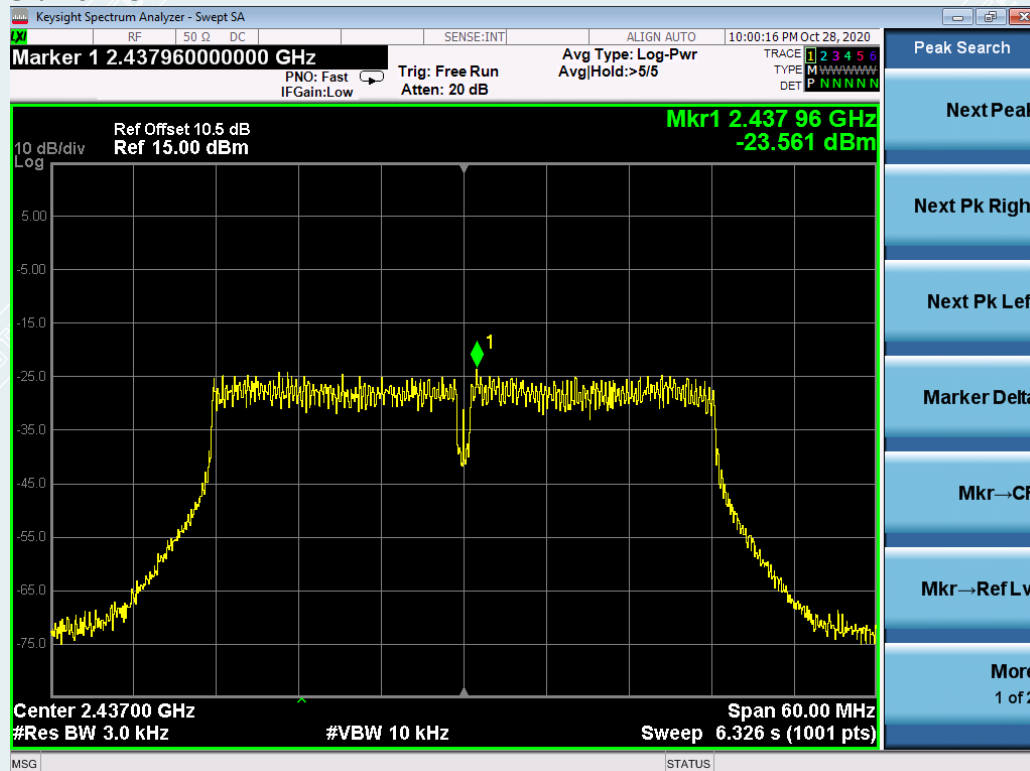
802.11n HT20 mode (antenna 2):
Channel 2462MHz



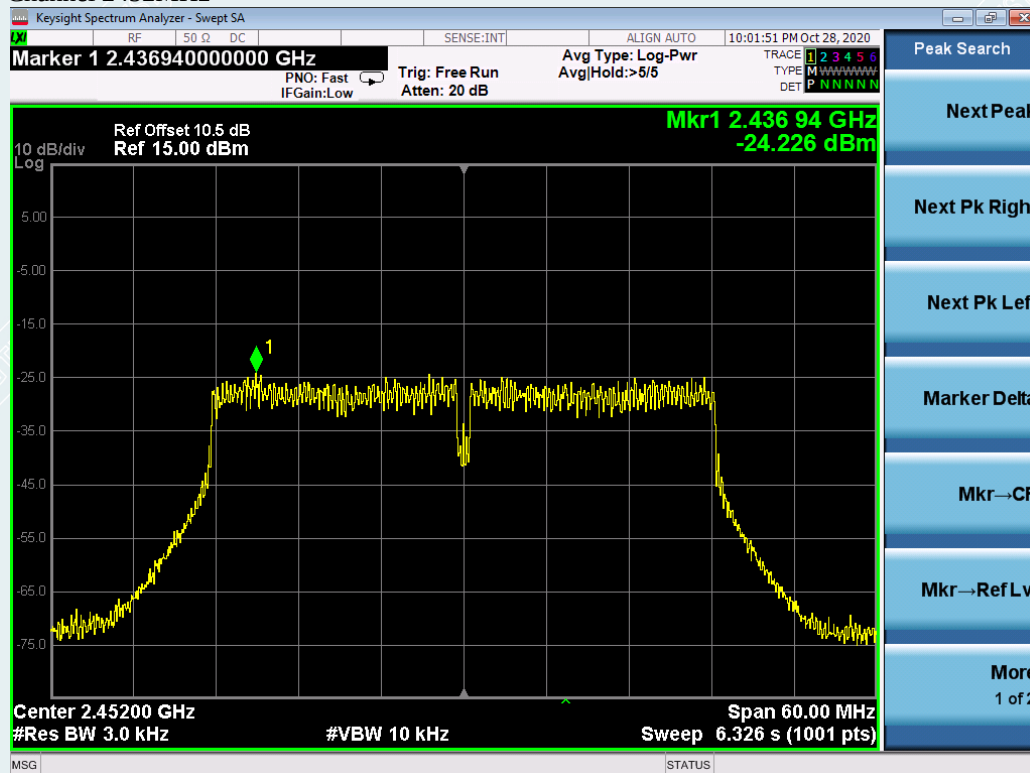
802.11n HT40 mode (antenna 1):
Channel 2422MHz



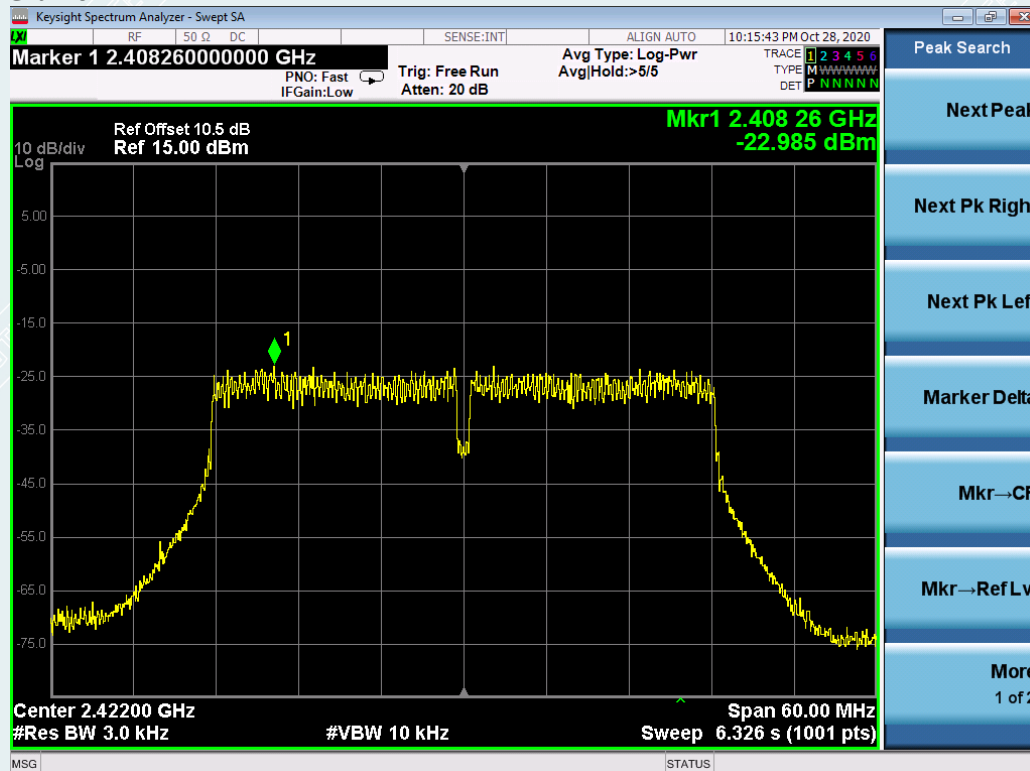
802.11n HT40 mode (antenna 1):
Channel 2437MHz

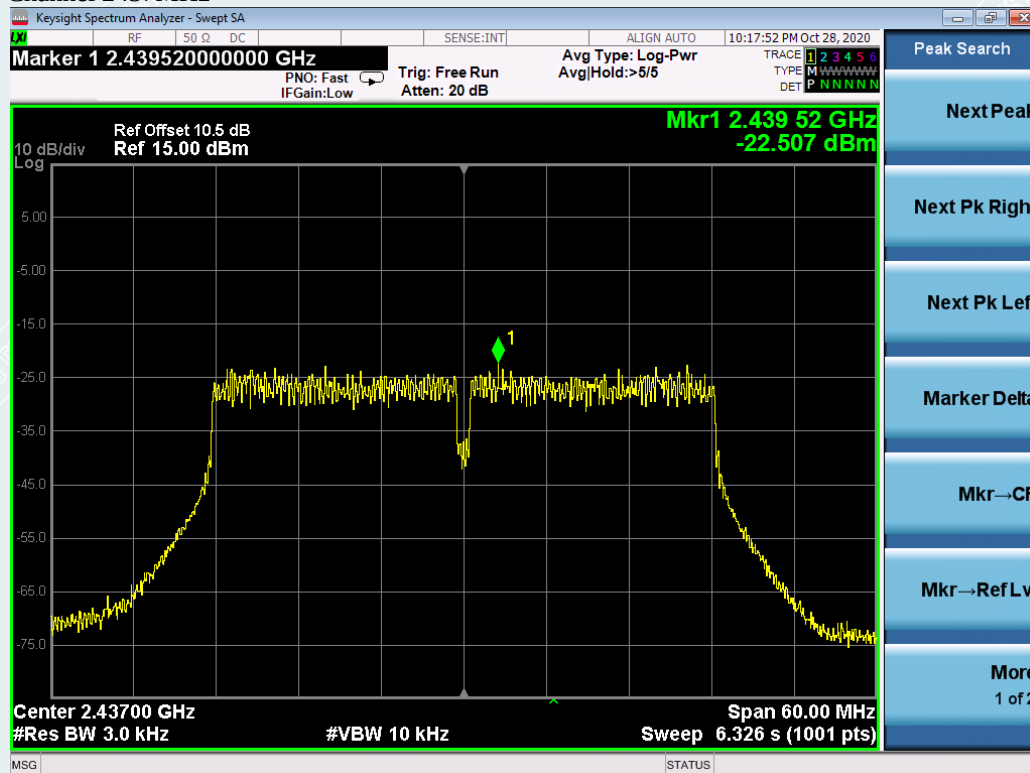
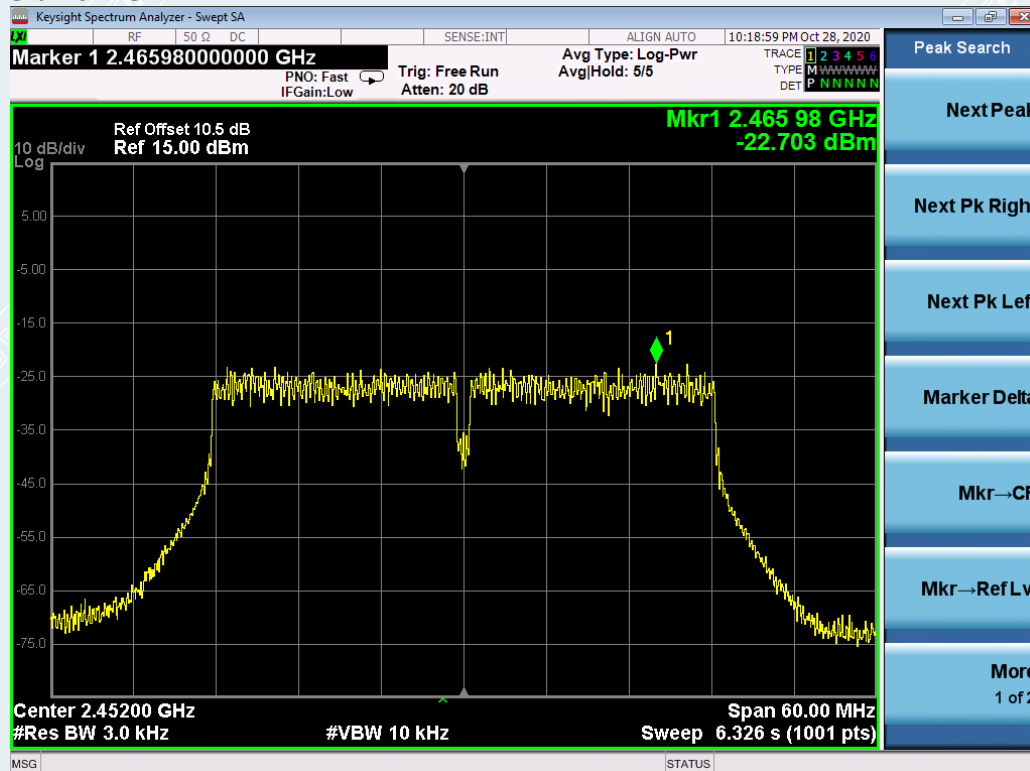


802.11n HT40 mode (antenna 1):
Channel 2452MHz



802.11n HT40 mode (antenna 2):
Channel 2422MHz



802.11n HT40 mode (antenna 2):
Channel 2437MHz802.11n HT40 mode (antenna 2):
Channel 2452MHz

10. CONDUCTED BAND EDGES AND SPURIOUS EMISSIONS

10.1. LIMITS

(d) In any 100 kHz 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 20 dB below that in the 100 kHz 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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

10.2. TEST PROCEDURES

Test procedures follow KDB 558074 D01 DTS Measurement Guidance v03r01.

Remove the antenna from the EUT and then connect a low attenuation cable from the antenna port to the spectrum.

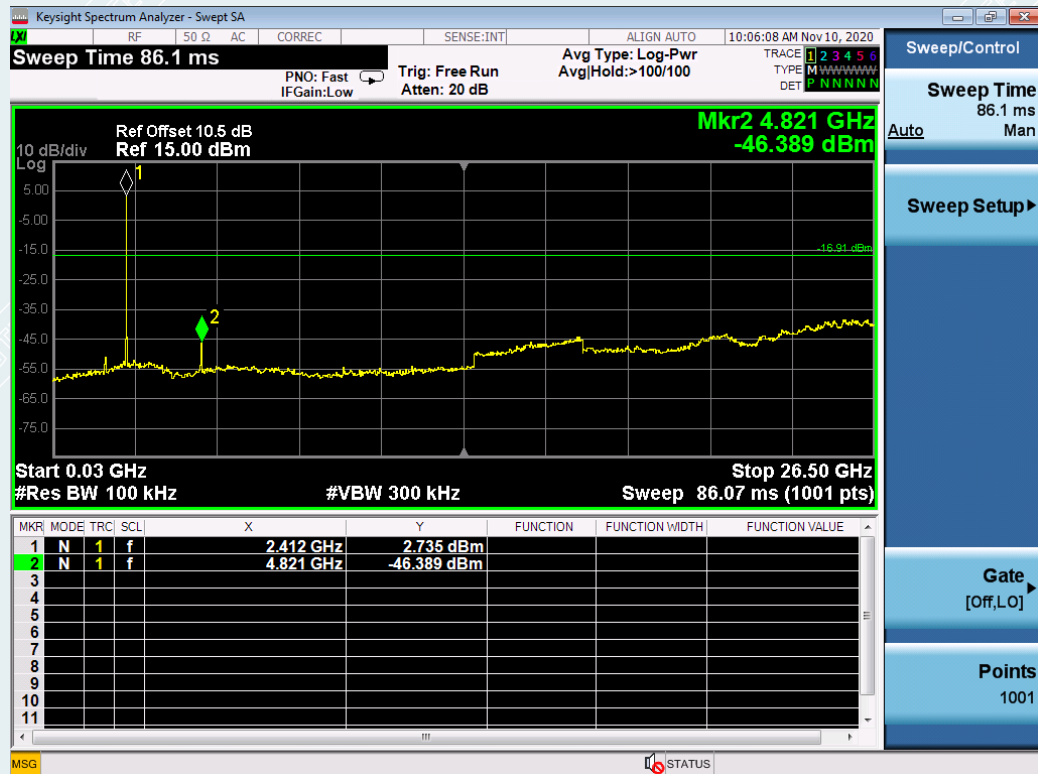
- 1) Remove the antenna from the EUT and then connect a low attenuation cable from the antenna port to the spectrum.
- 2) Set the spectrum analyzer: RBW = 100KHz; VBW = 300KHz, Span = 30MHz to 26.5GHz; Sweep = auto; Detector Function = Peak. Trace = Max, hold.
- 3) Measure and record the results in the test report.
- 4) The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

10.3. TEST SETUP

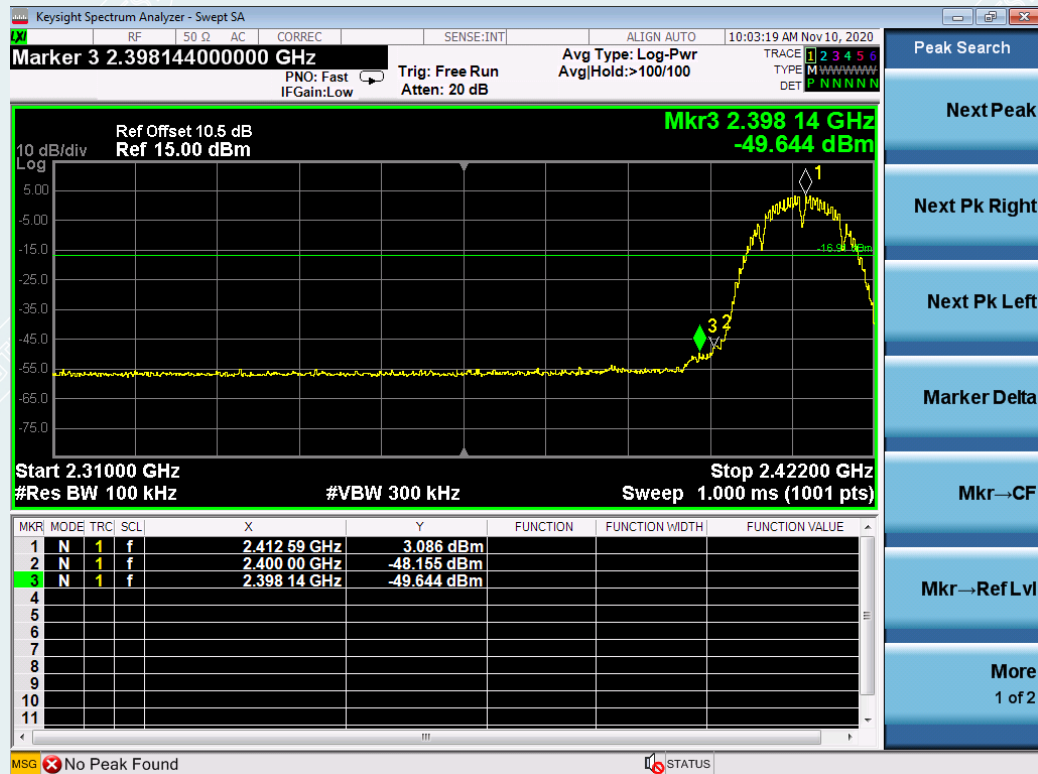


10.4. TEST RESULTS

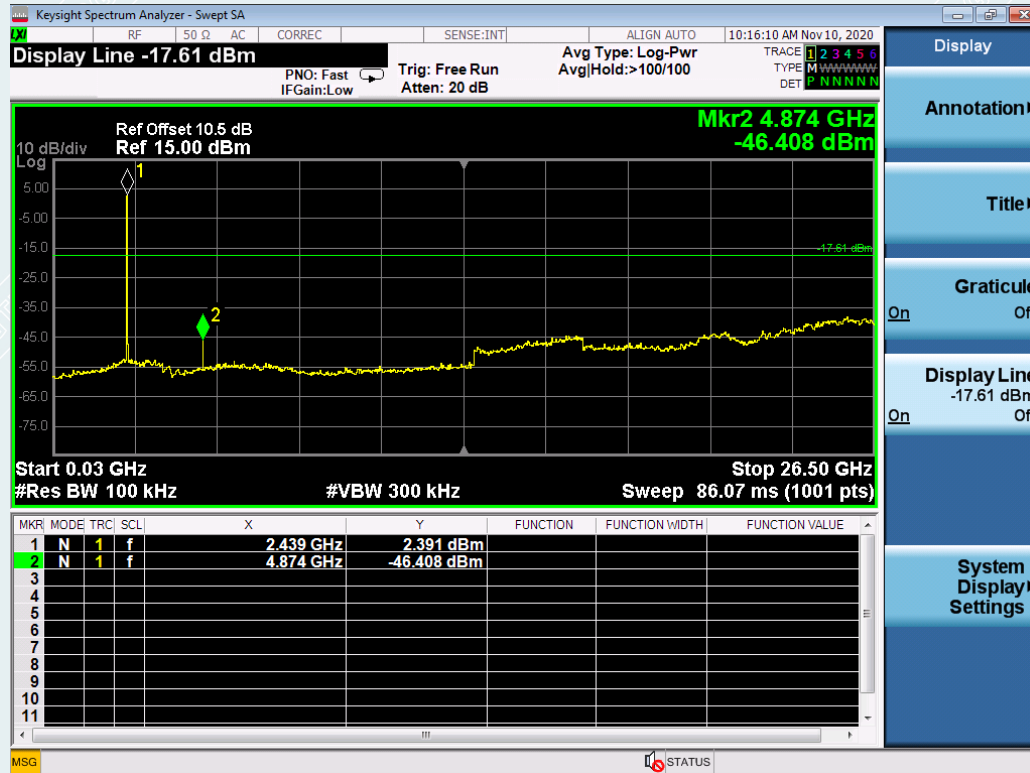
802.11b mode (antenna 1):
Channel 2412MHz
0.03GHz-26.5GHz



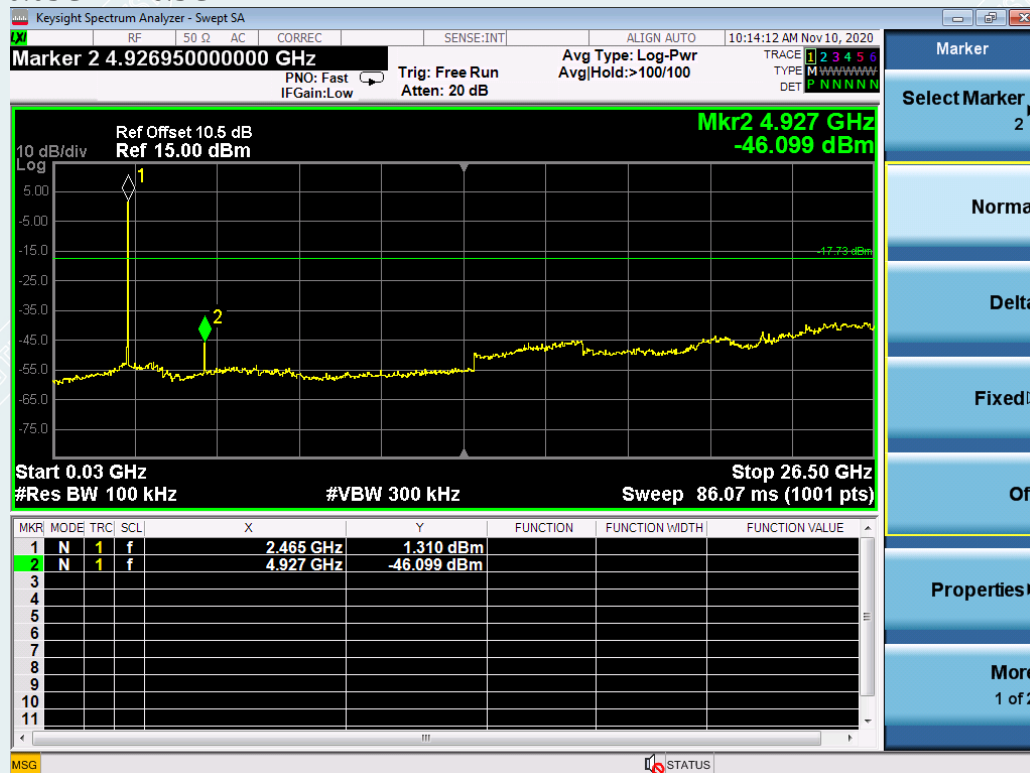
2.31GHz-2.422GHz



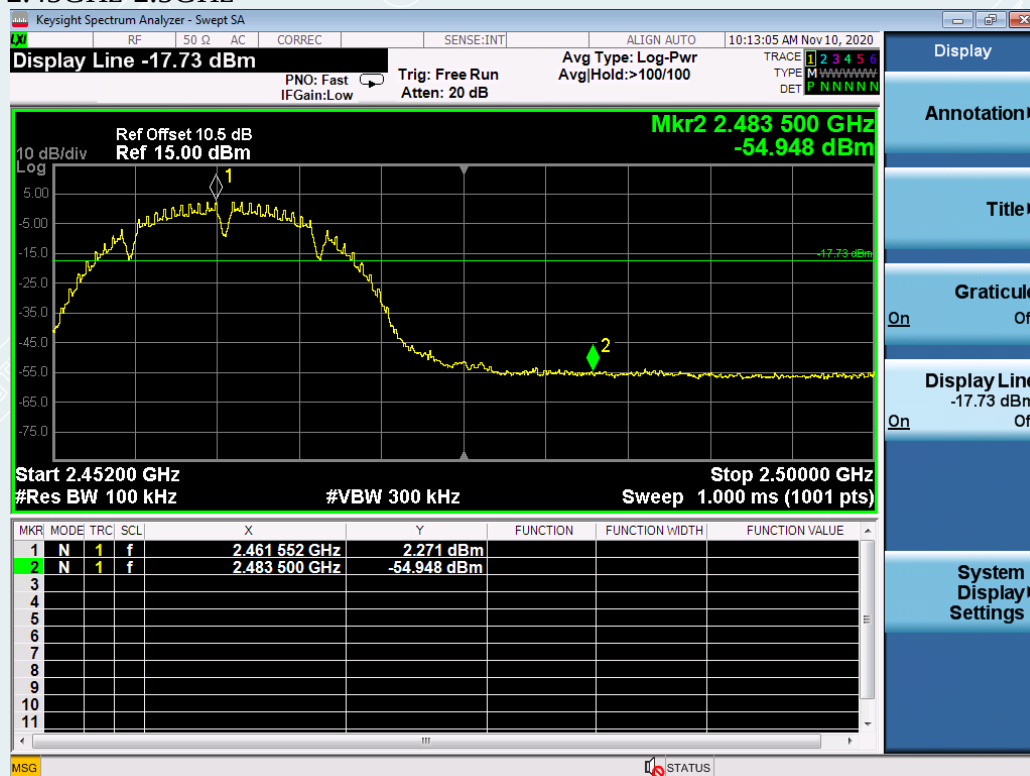
802.11b mode (antenna 1):
Channel 2437MHz
0.03GHz-26.5GHz



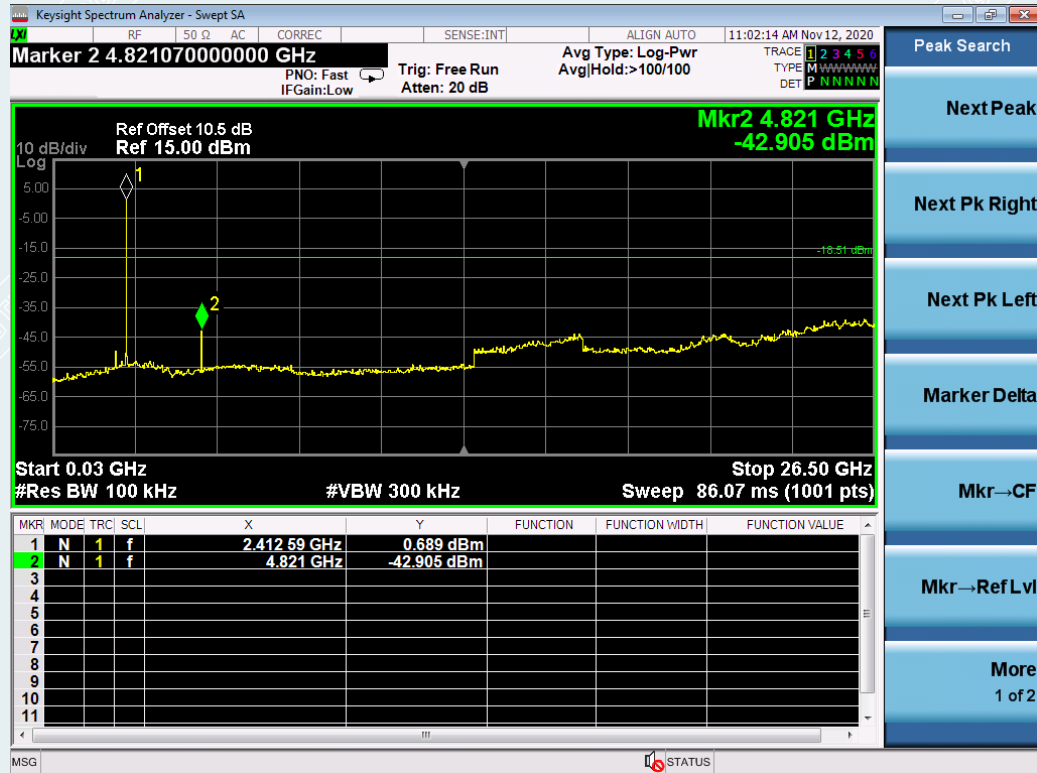
802.11b mode (antenna 1):
Channel 2462MHz
0.03GHz-26.5GHz



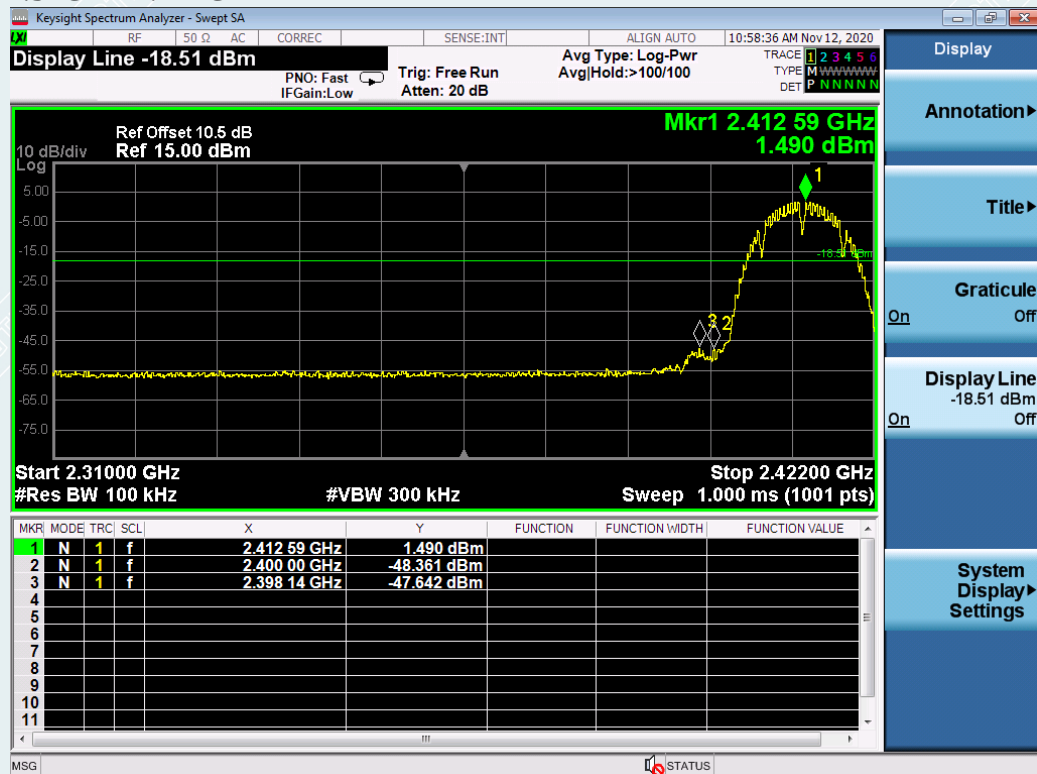
2.45GHz-2.5GHz



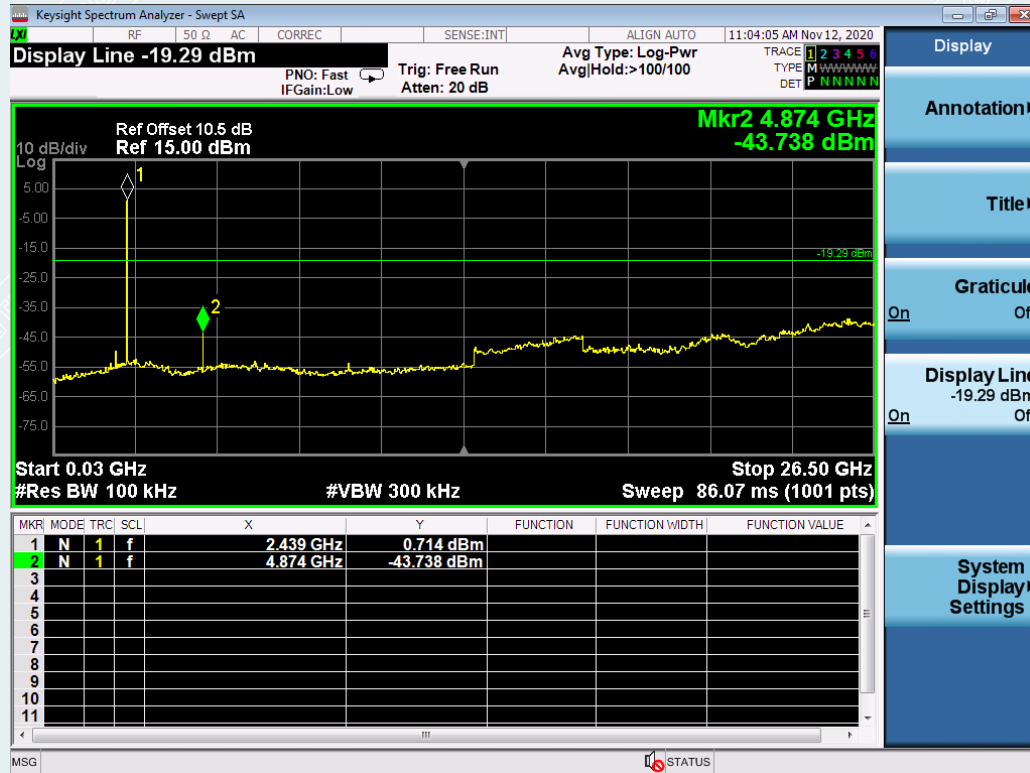
802.11b mode (antenna 2):
Channel 2412MHz
0.03GHz-26.5GHz



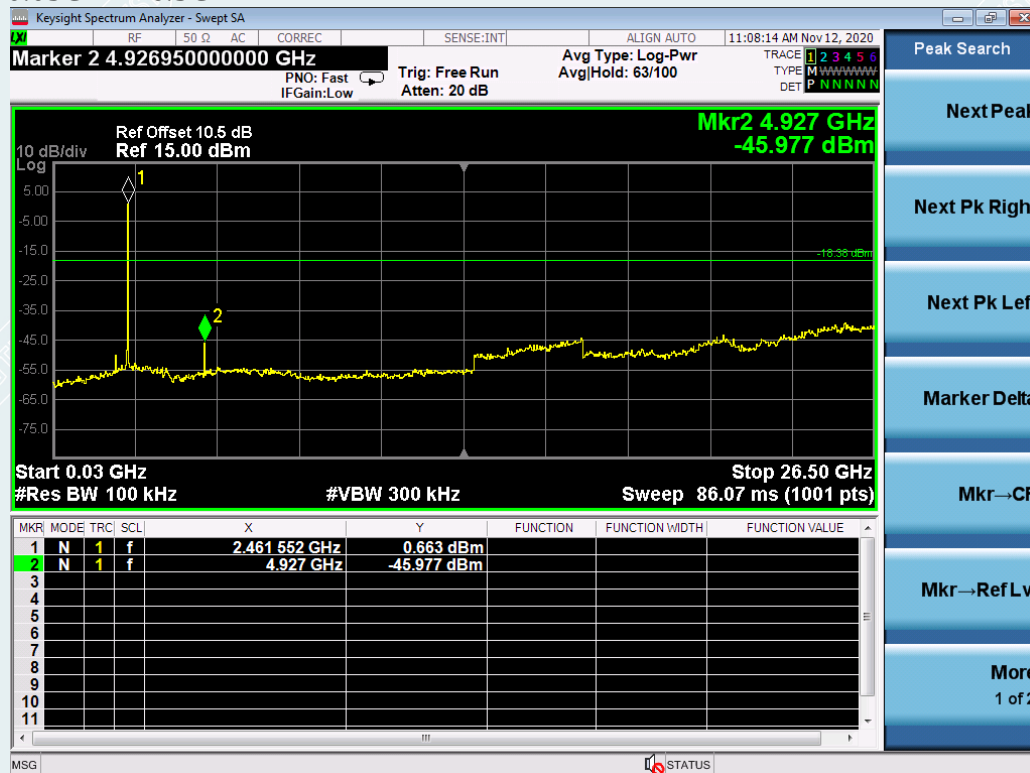
2.31GHz-2.422GHz



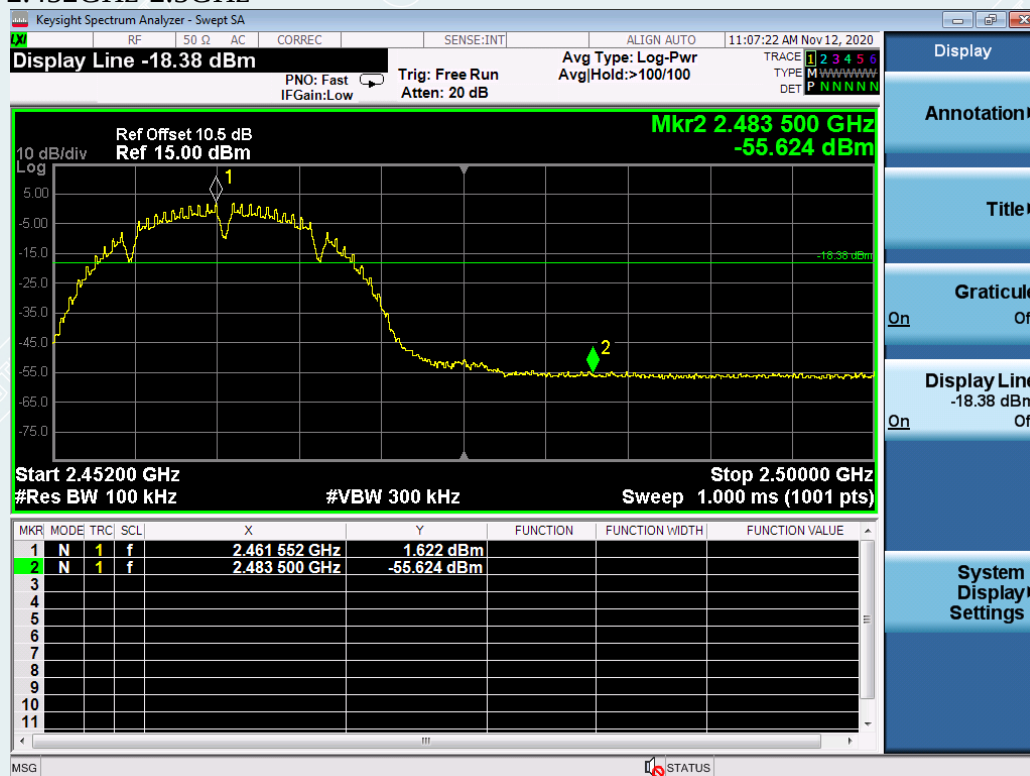
802.11b mode (antenna 2):
Channel 2437MHz
0.03GHz-26.5GHz



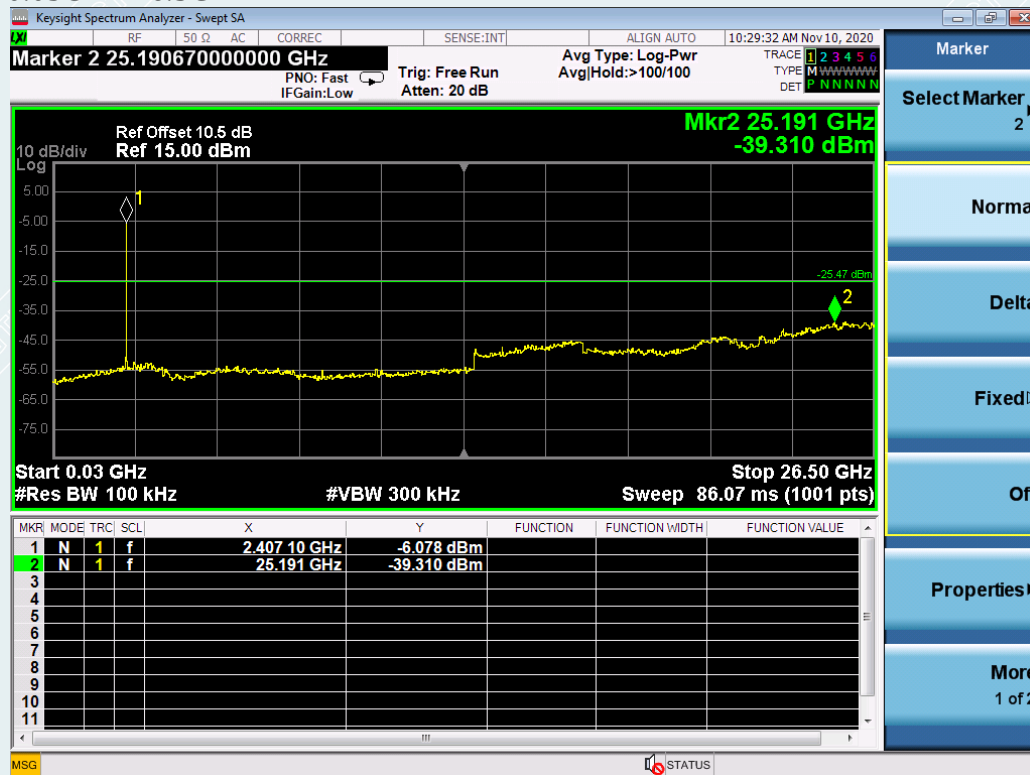
802.11b mode (antenna 2):
Channel 2462MHz
0.03GHz-26.5GHz



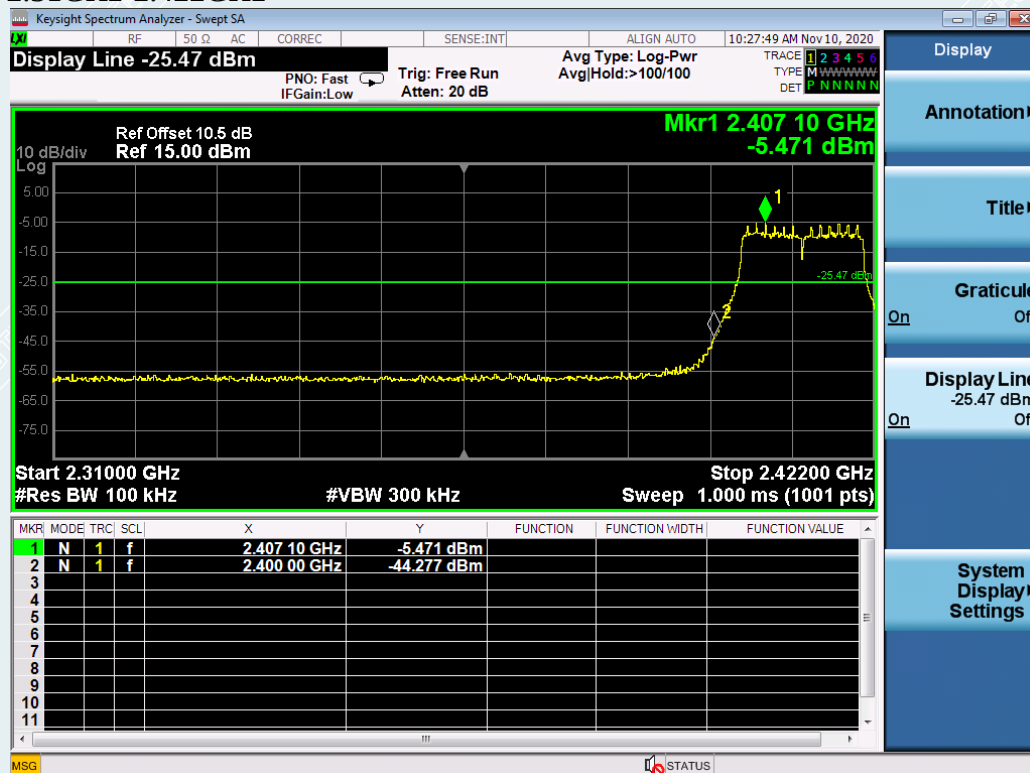
2.452GHz-2.5GHz



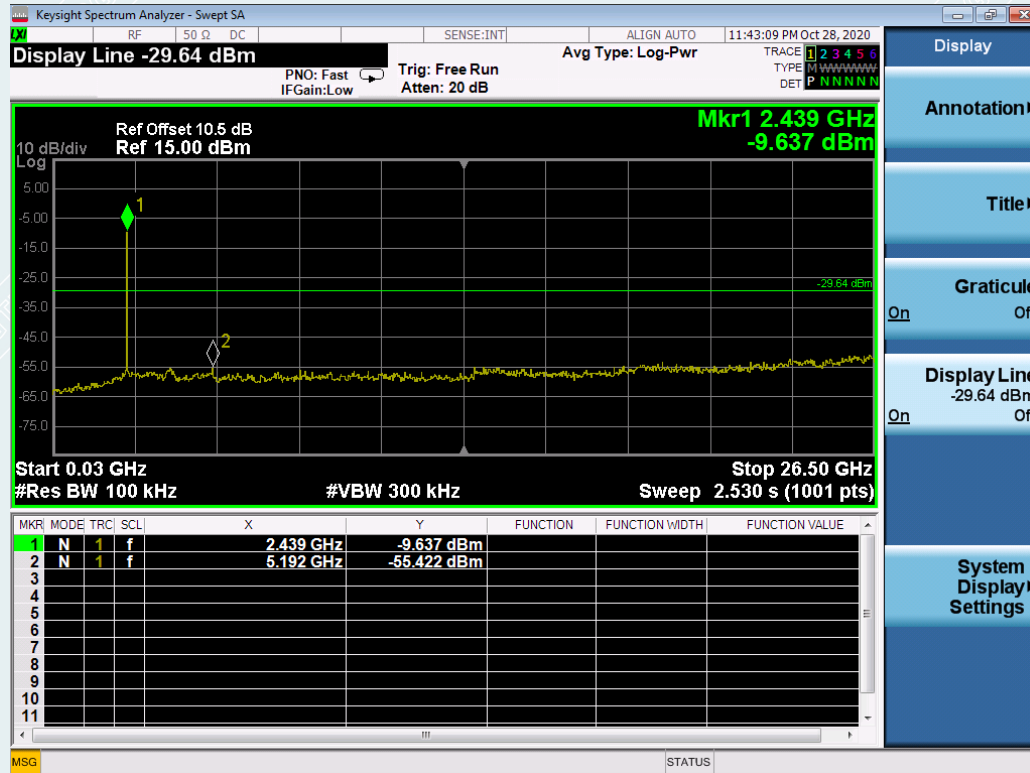
802.11g mode (antenna 1):
Channel 2412MHz
0.03GHz-26.5GHz



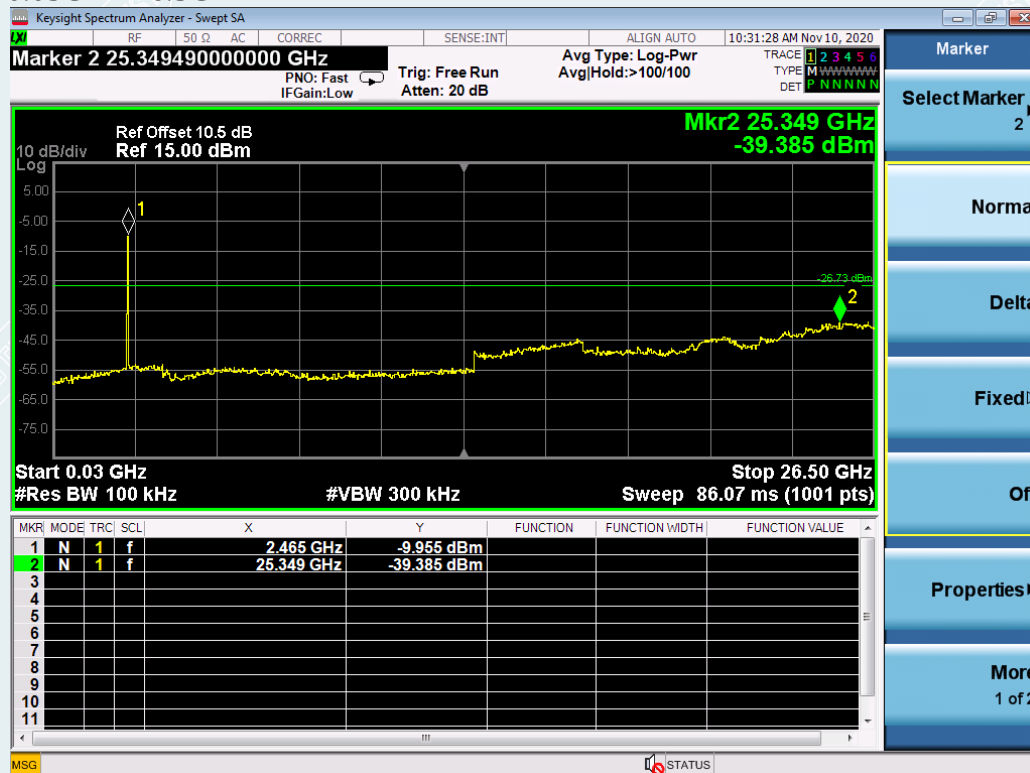
2.31GHz-2.422GHz



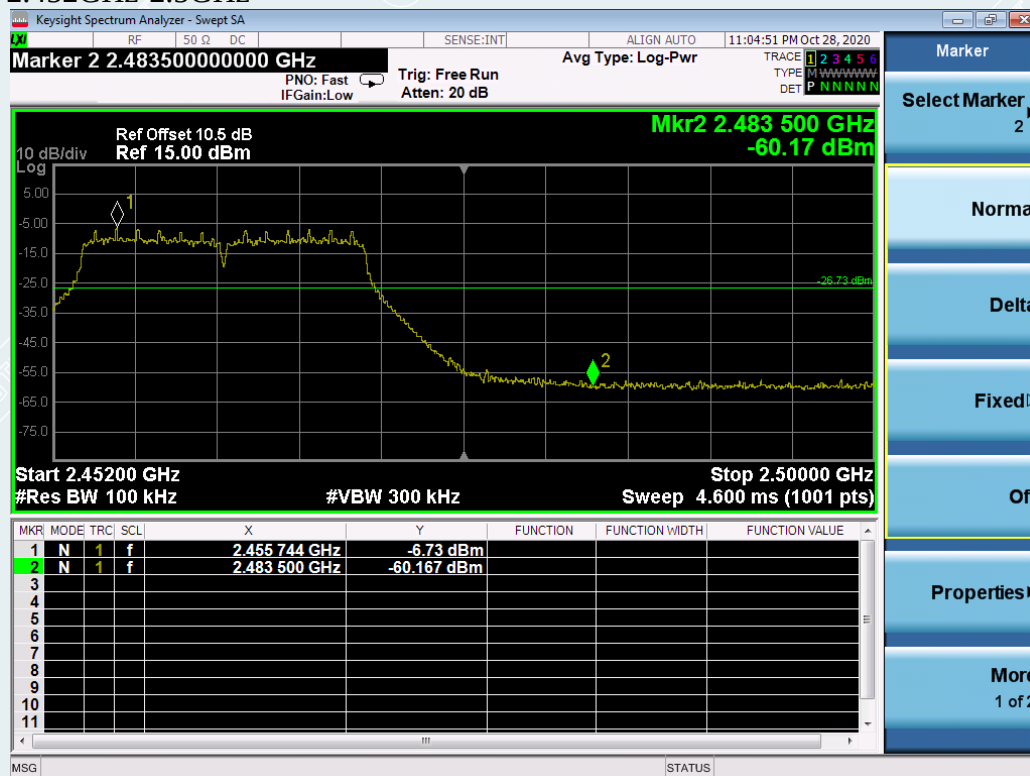
802.11g mode (antenna 1):
Channel 2437MHz
0.03GHz-26.5GHz



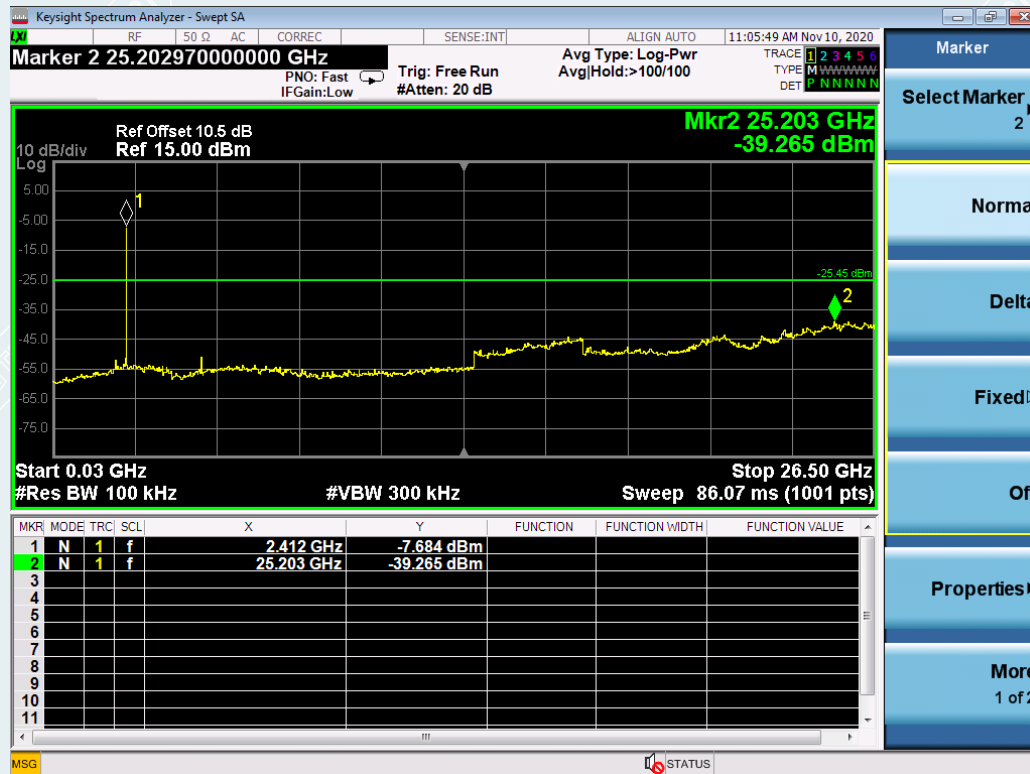
802.11g mode (antenna 1):
Channel 2462MHz
0.03GHz-26.5GHz



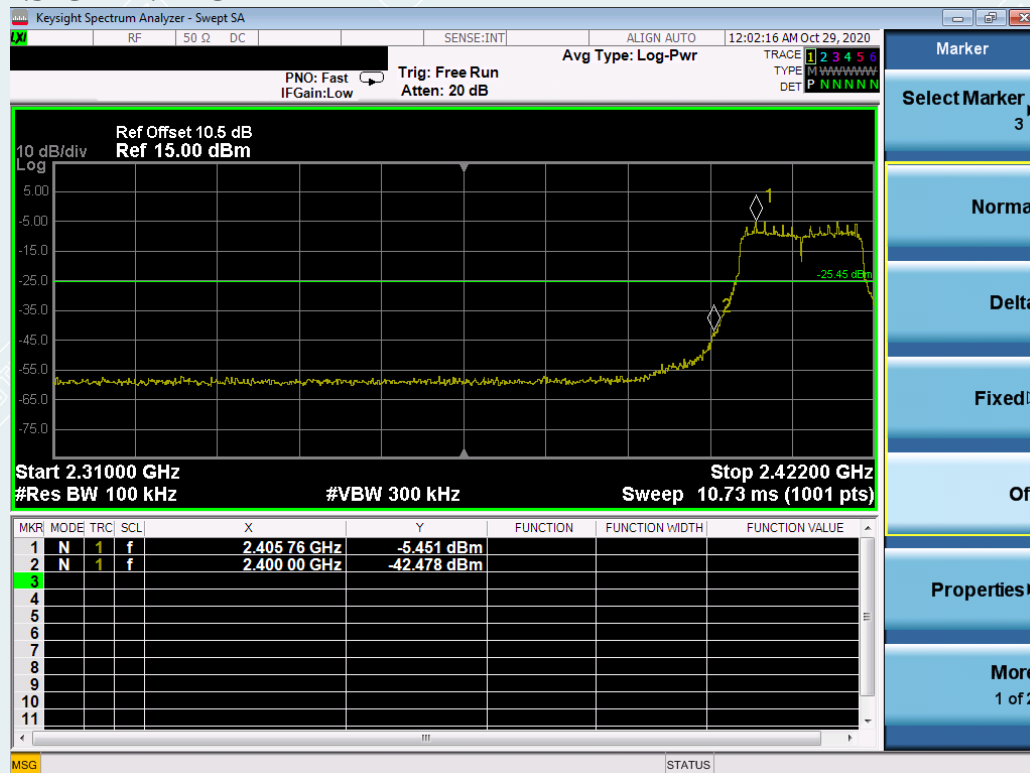
2.452GHz-2.5GHz



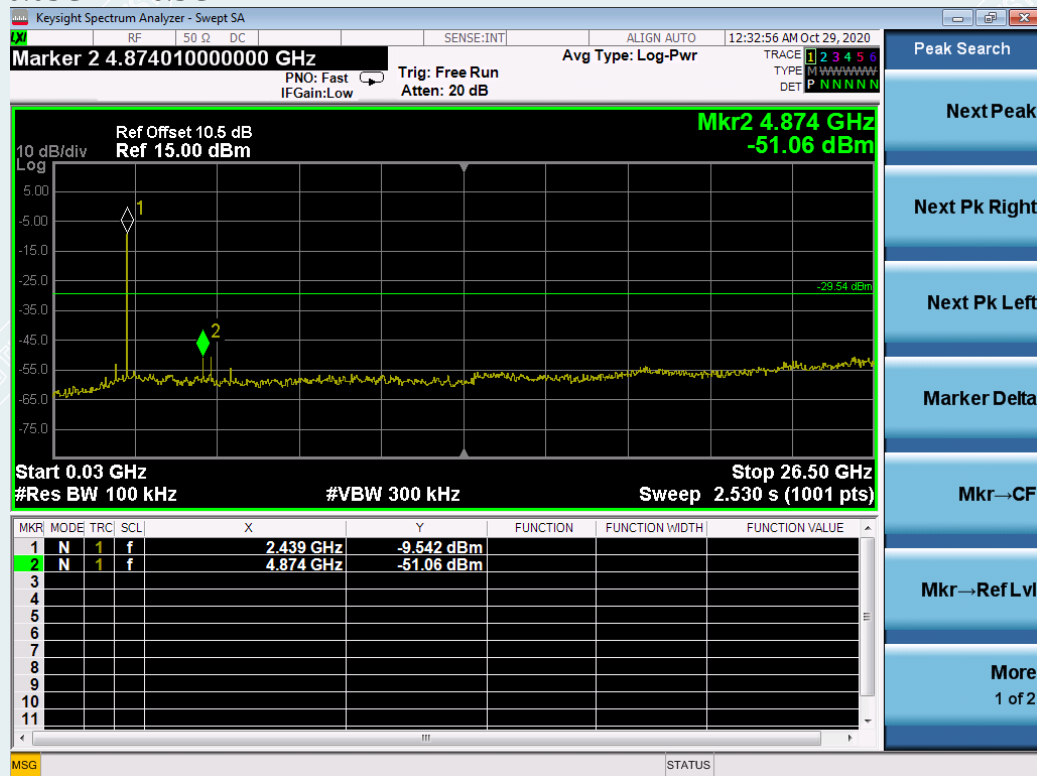
802.11g mode (antenna 2):
Channel 2412MHz
0.03GHz-26.5GHz



2.31GHz-2.422GHz



802.11g mode (antenna 2):
Channel 2437MHz
0.03GHz-26.5GHz



Keysight Spectrum Analyzer - Swept SA

RF 50 Ω AC CORREC SENSE:INT ALIGN AUTO 11:08:12 AM Nov 10, 2020

Display Line -25.85 dBm

PNO: Fast IFGain:Low Trig: Free Run #Atten: 20 dB

Avg Type: Log-Pwr Avg/Hold:>100/100

TRACE 1 2 3 4 5 6 TYPE M P N N N N N DET

Ref Offset 10.5 dB
Ref 15.00 dBm

**Mkr2 25.203 GHz
-39.957 dBm**

10 dB/div
Log

Start 0.03 GHz
#Res BW 100 kHz

Stop 26.50 GHz
#VBW 300 kHz
Sweep 86.07 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.465 GHz	-6.801 dBm			
2	N	1	f	25.203 GHz	-39.957 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

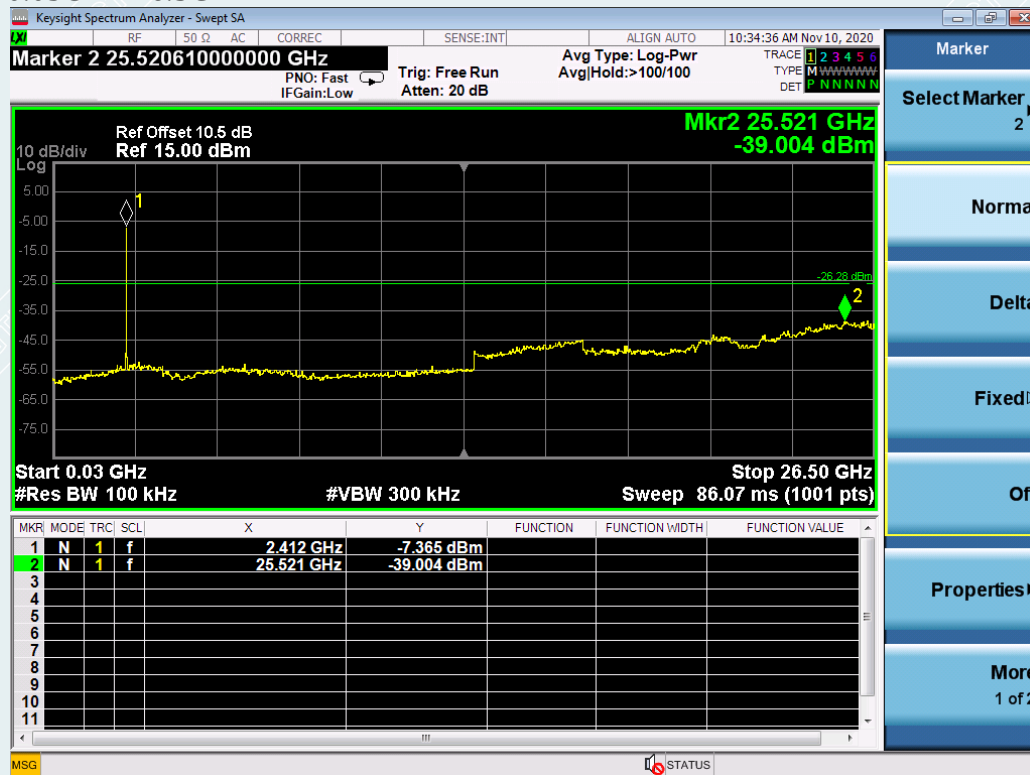
Display
Annotation
Title
Graticule
On
Display Line
-25.85 dBm
On
System
Display
Settings

[illegible]

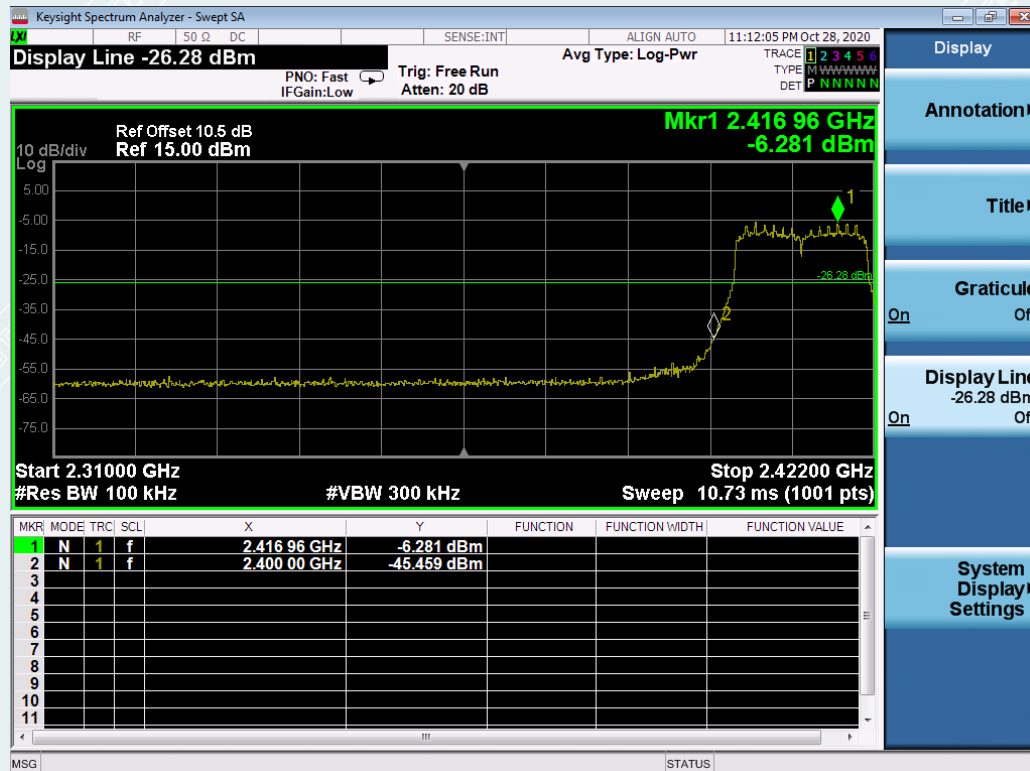
802.11n HT20 mode (antenna 1):

Channel 2412MHz

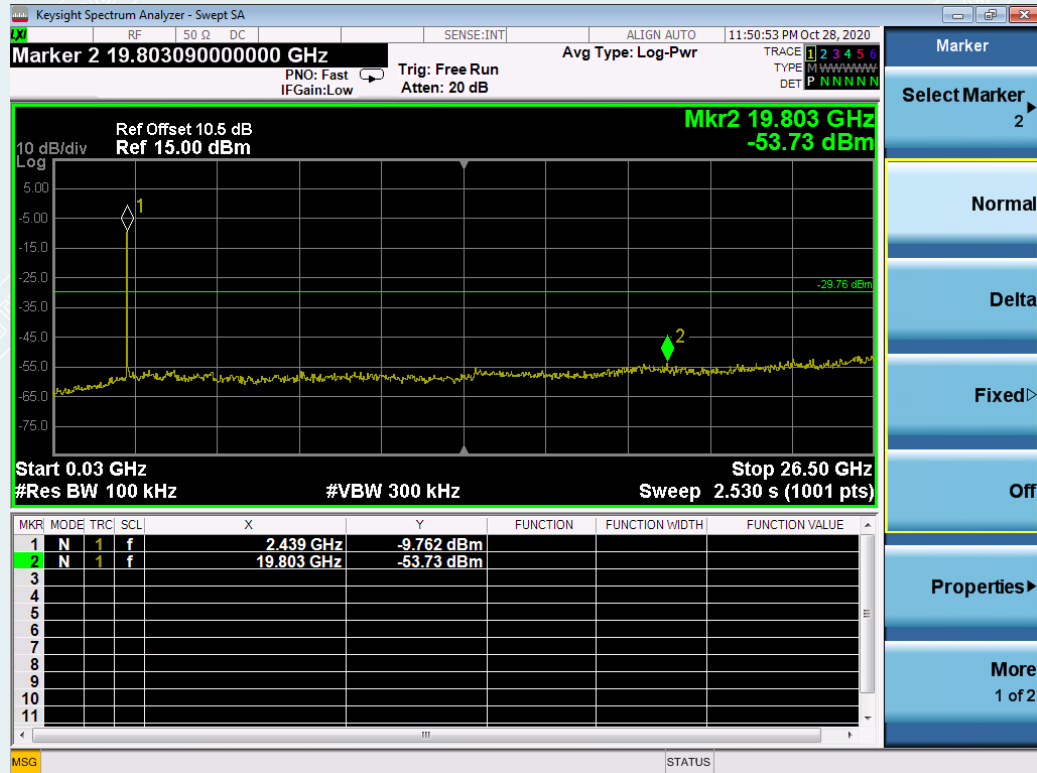
0.03GHz-26.5GHz



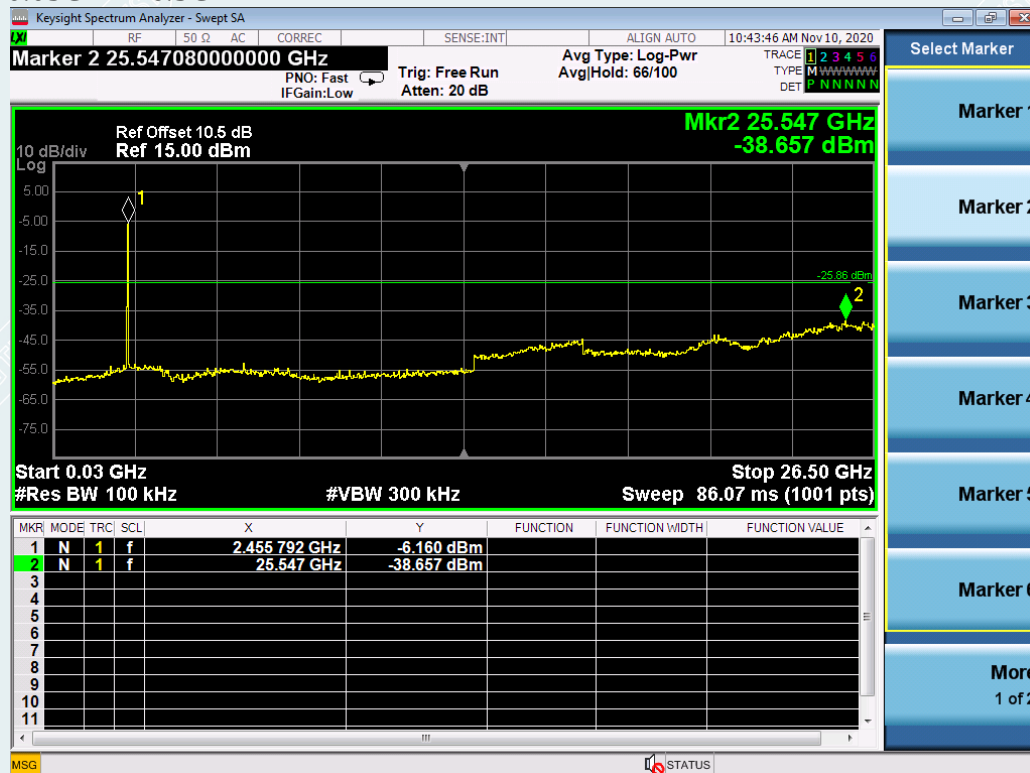
2.31GHz-2.422GHz



802.11n HT20 mode (antenna 1):
Channel 2437MHz
0.03GHz-26.5GHz



802.11n HT20 mode (antenna 1):
Channel 2462MHz
0.03GHz-26.5GHz



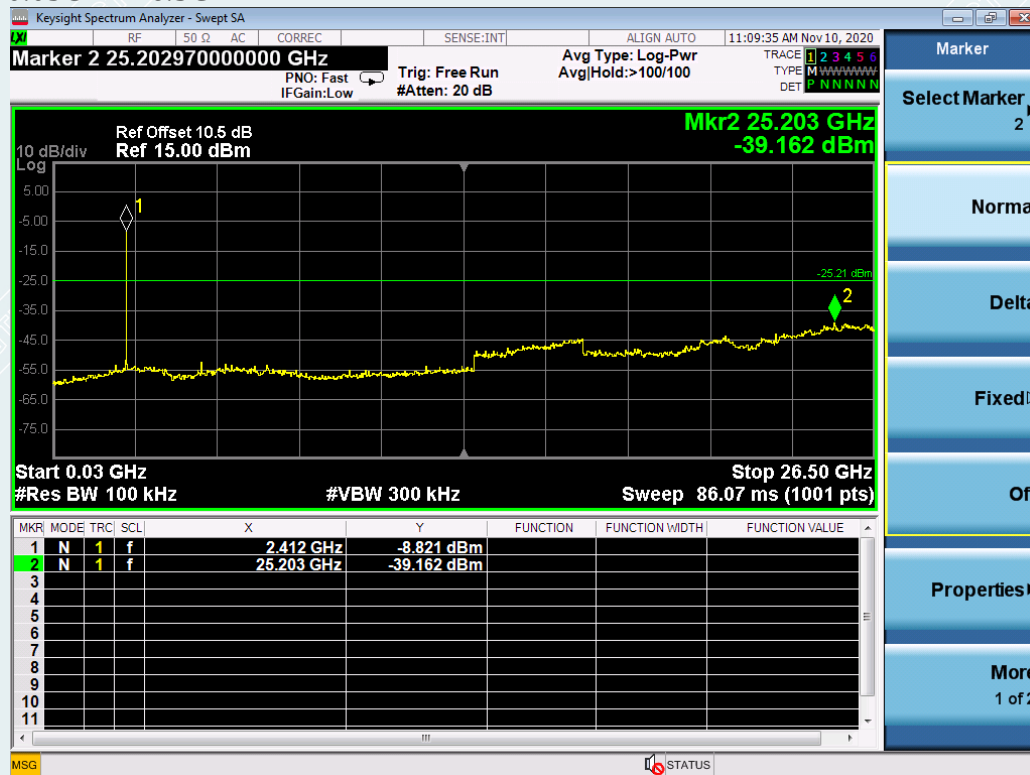
2.452GHz-2.5GHz



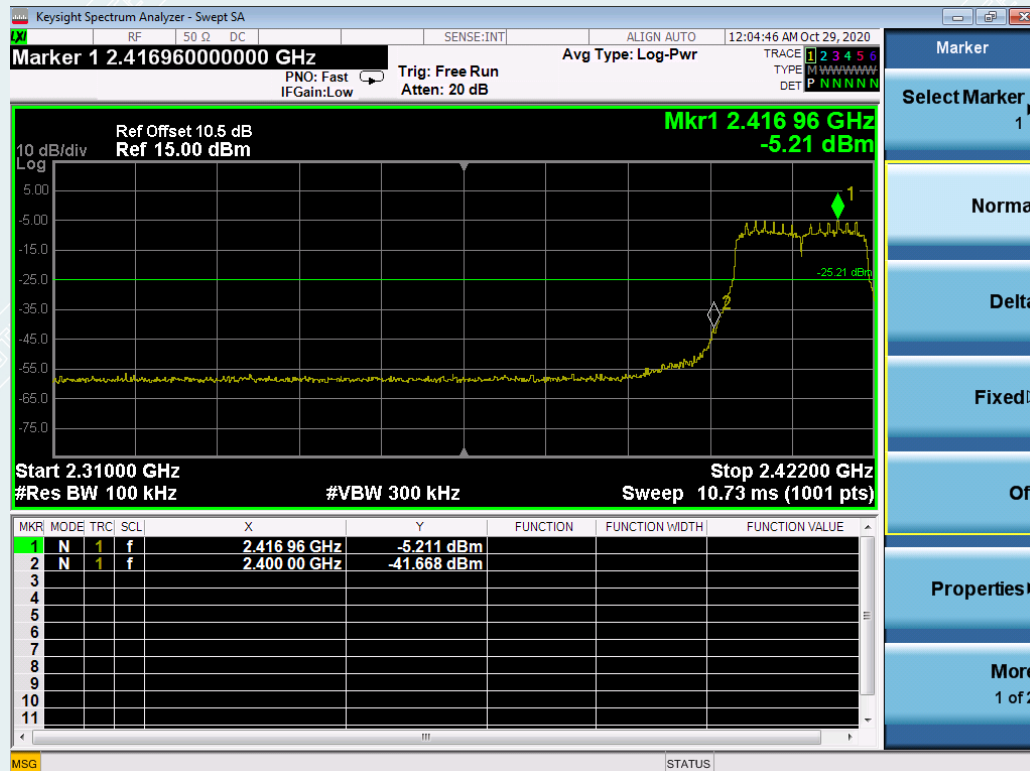
802.11n HT20 mode (antenna 2):

Channel 2412MHz

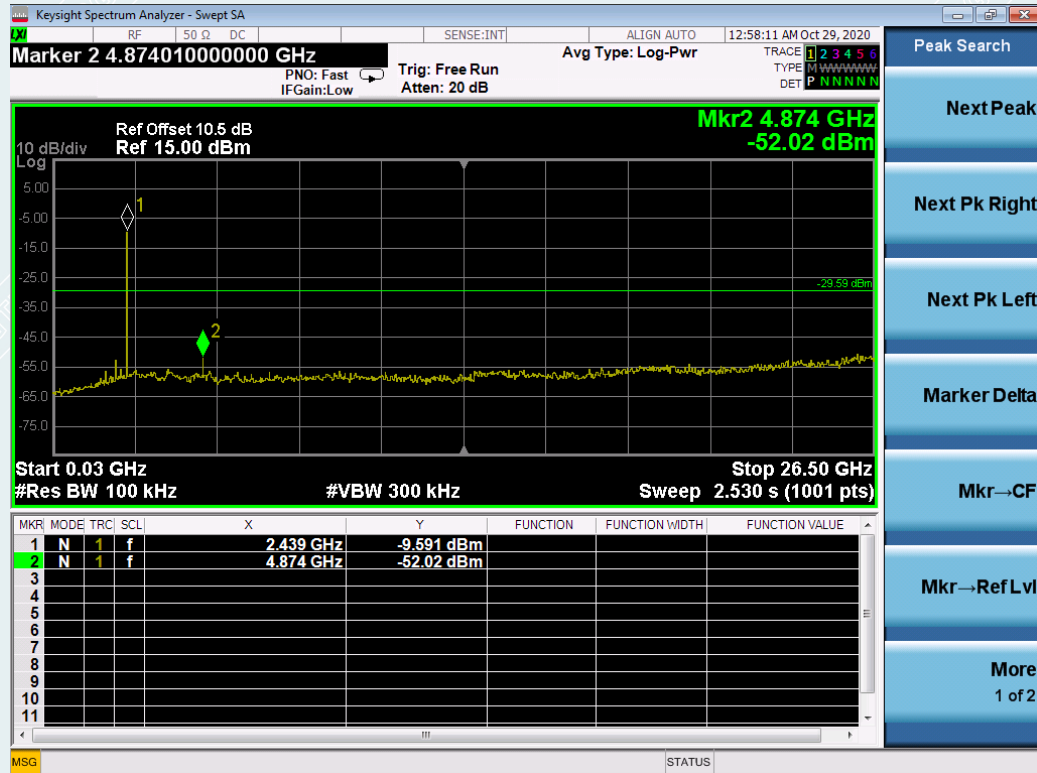
0.03GHz-26.5GHz



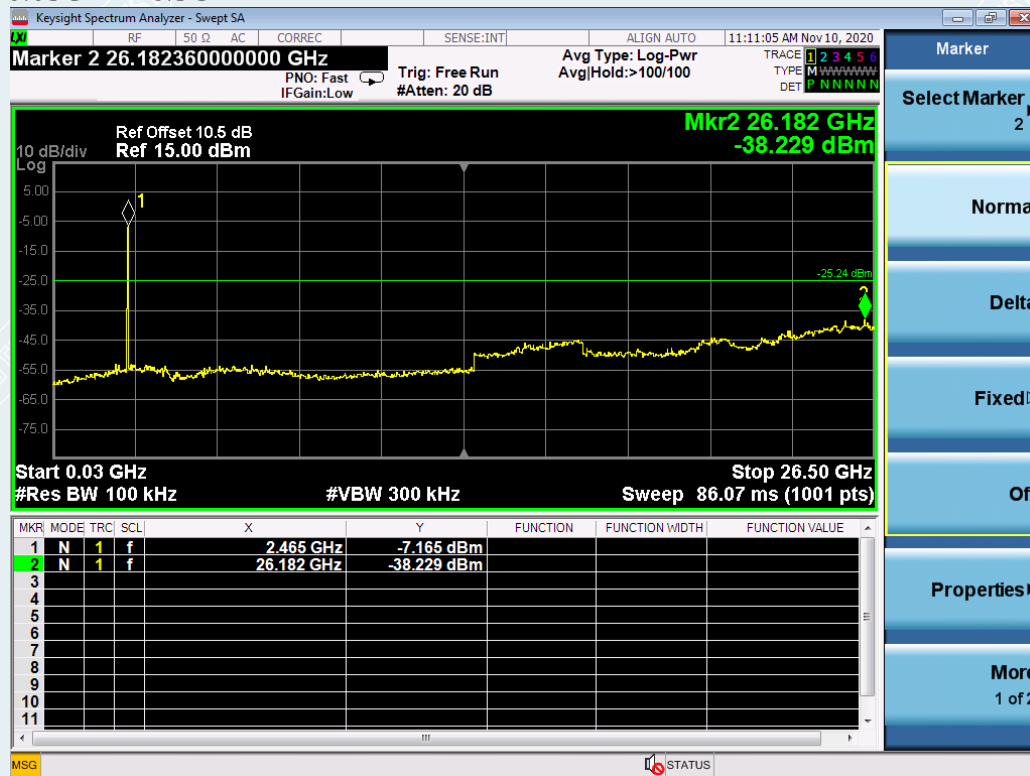
2.31GHz-2.422GHz



802.11n HT20 mode (antenna 2):
Channel 2437MHz
0.03GHz-26.5GHz



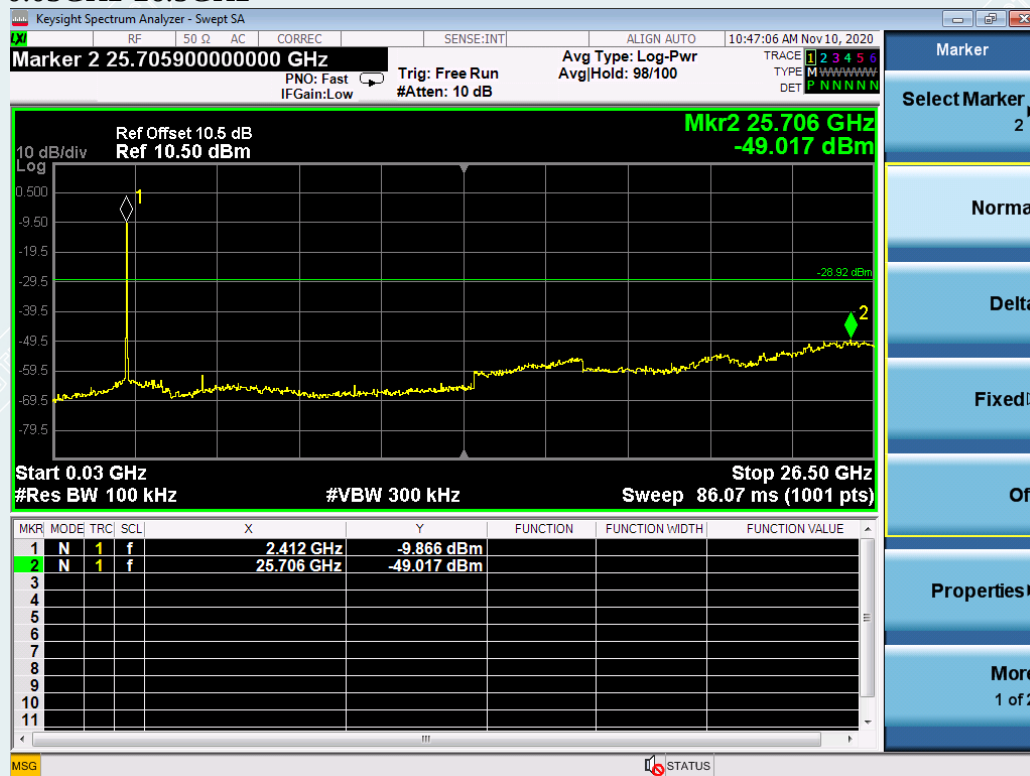
802.11n HT20 mode (antenna 2):
Channel 2462MHz
0.03GHz-26.5GHz



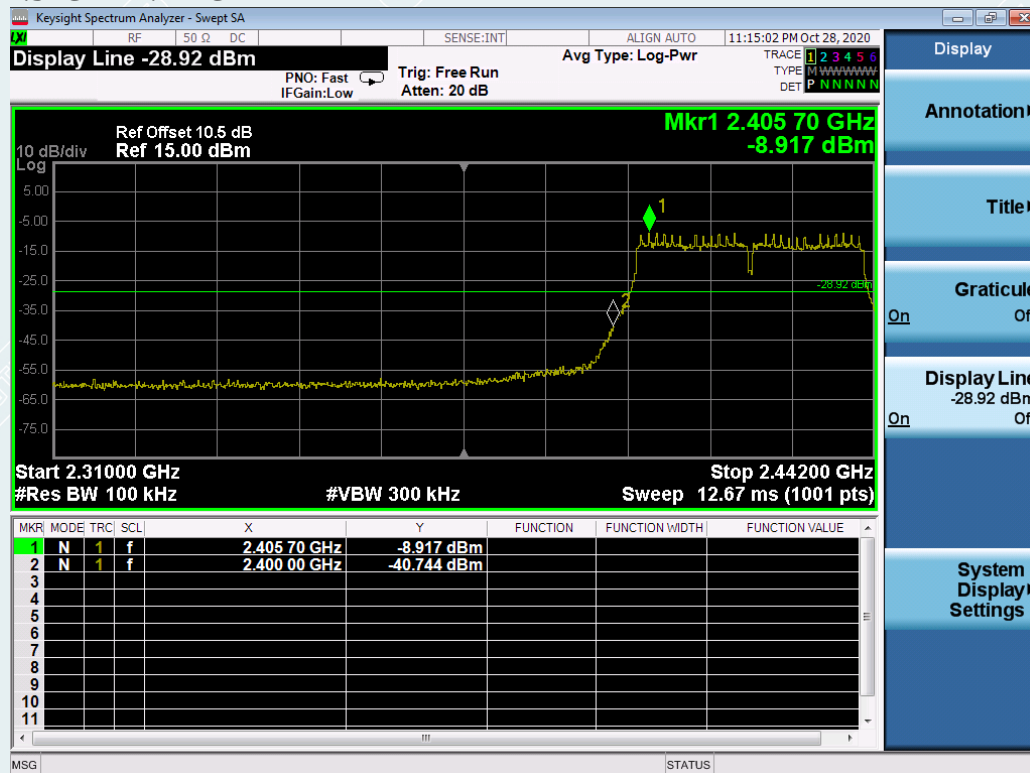
2.452GHz-2.5GHz



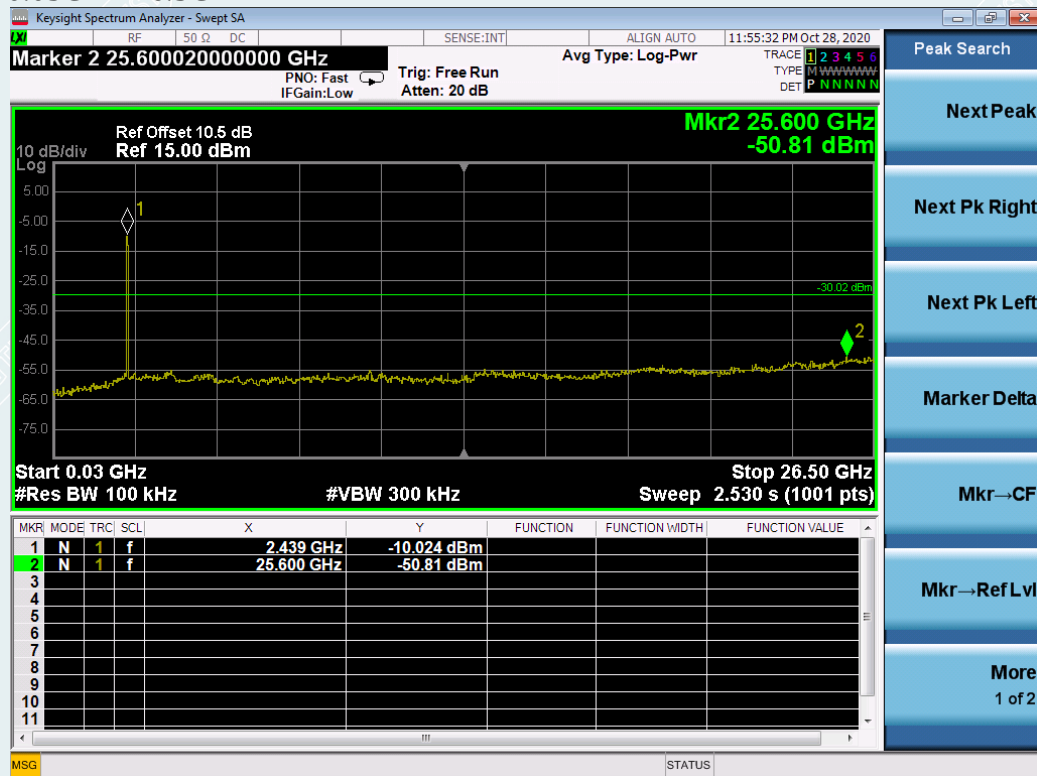
802.11n HT40 mode (antenna 1):
Channel 2422MHz
0.03GHz-26.5GHz



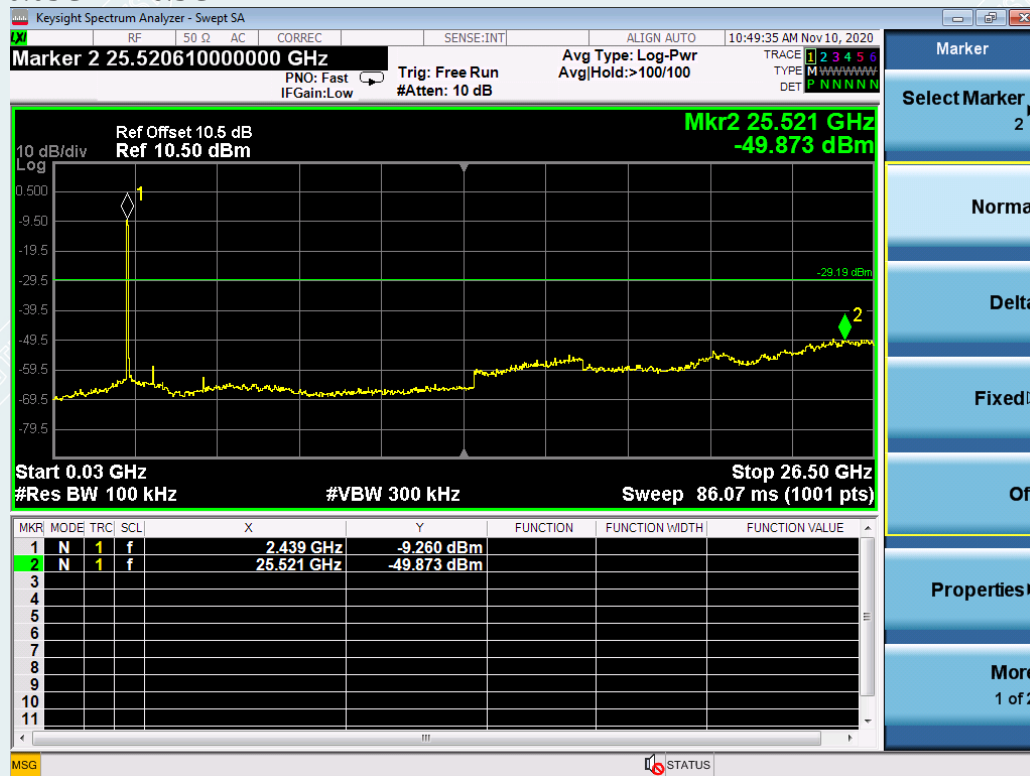
2.31GHz-2.442GHz



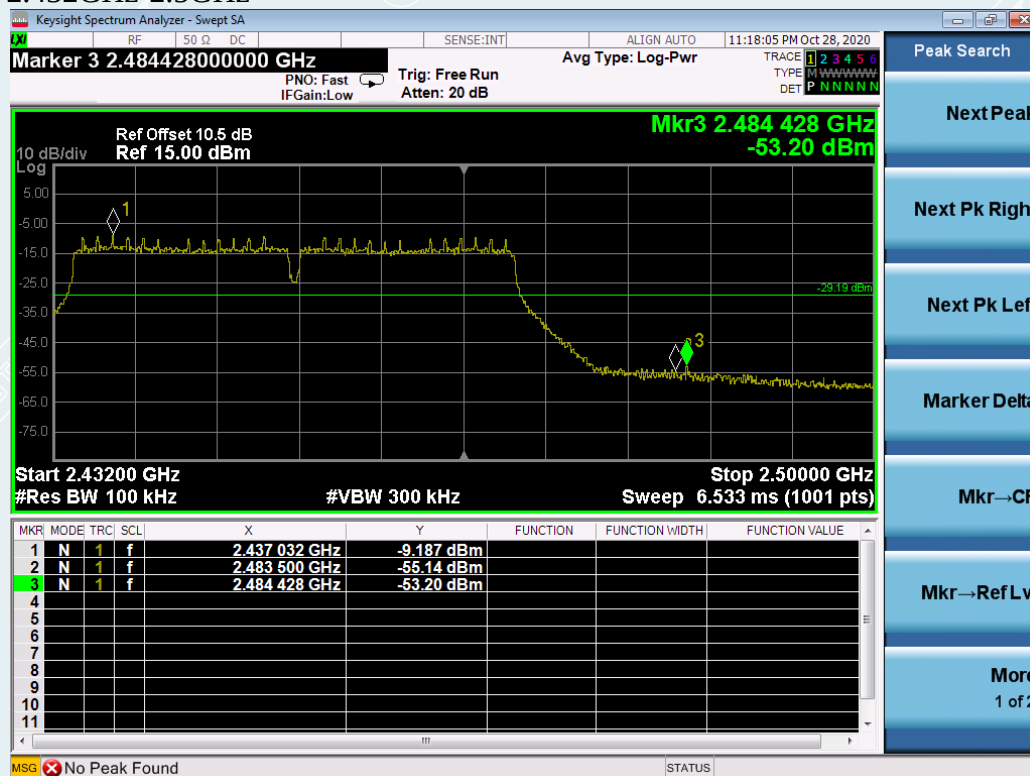
802.11n HT40 mode (antenna 1):
Channel 2437MHz
0.03GHz-26.5GHz



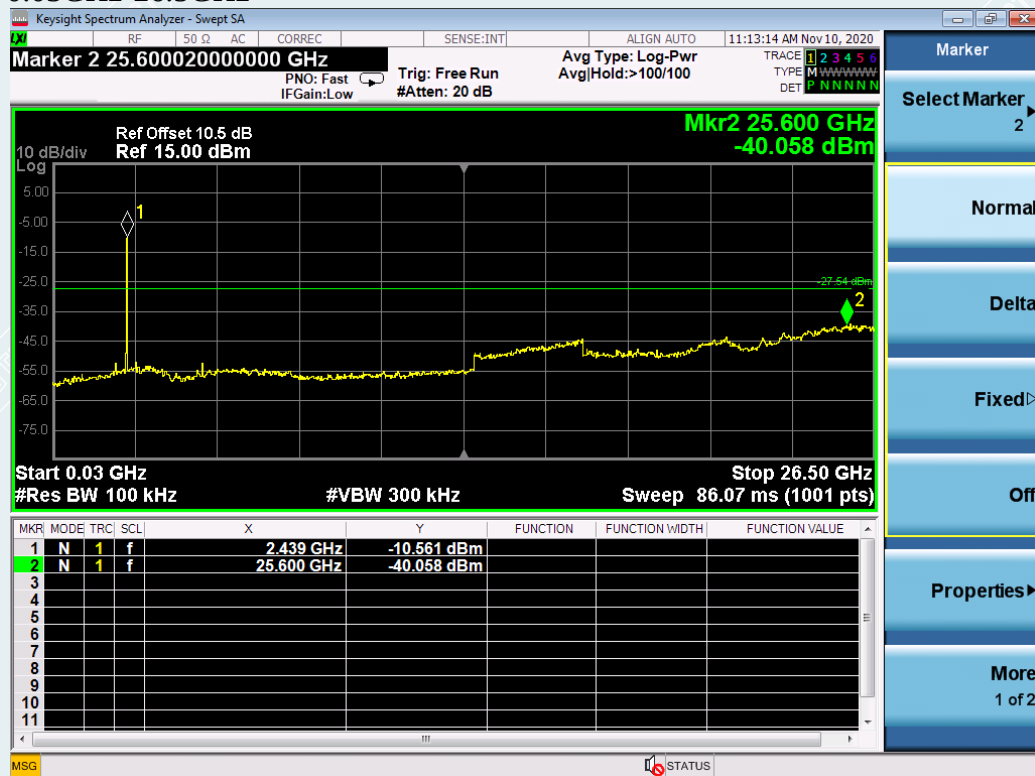
802.11n HT40 mode (antenna 1):
Channel 2452MHz
0.03GHz-26.5GHz



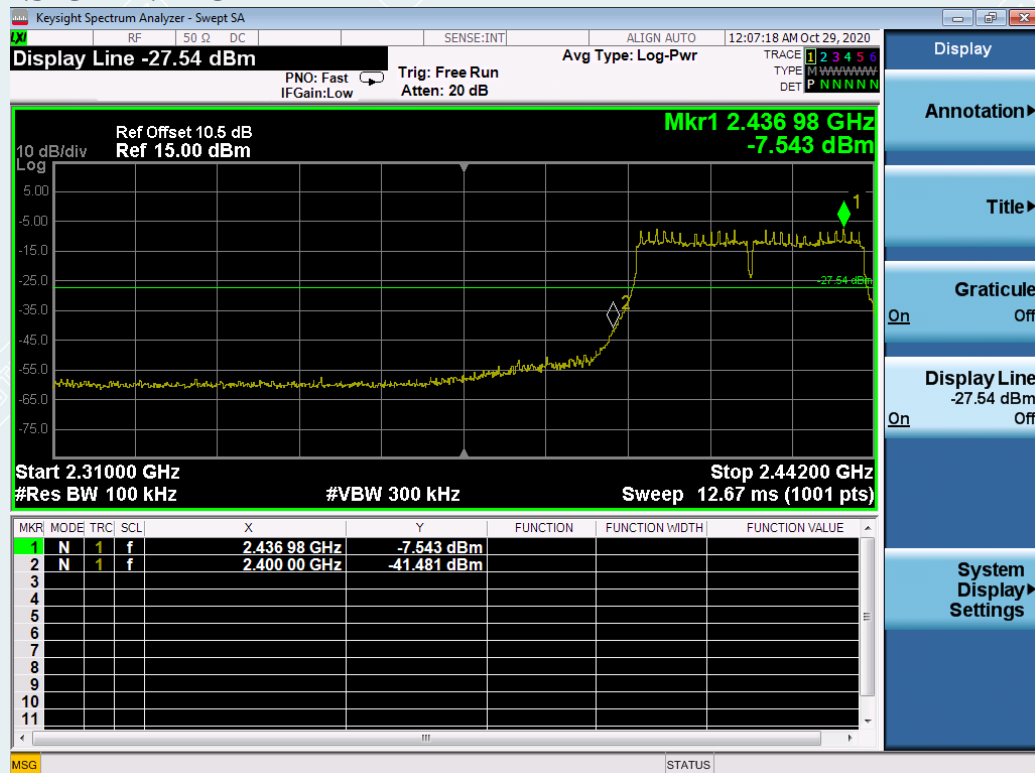
2.432GHz-2.5GHz



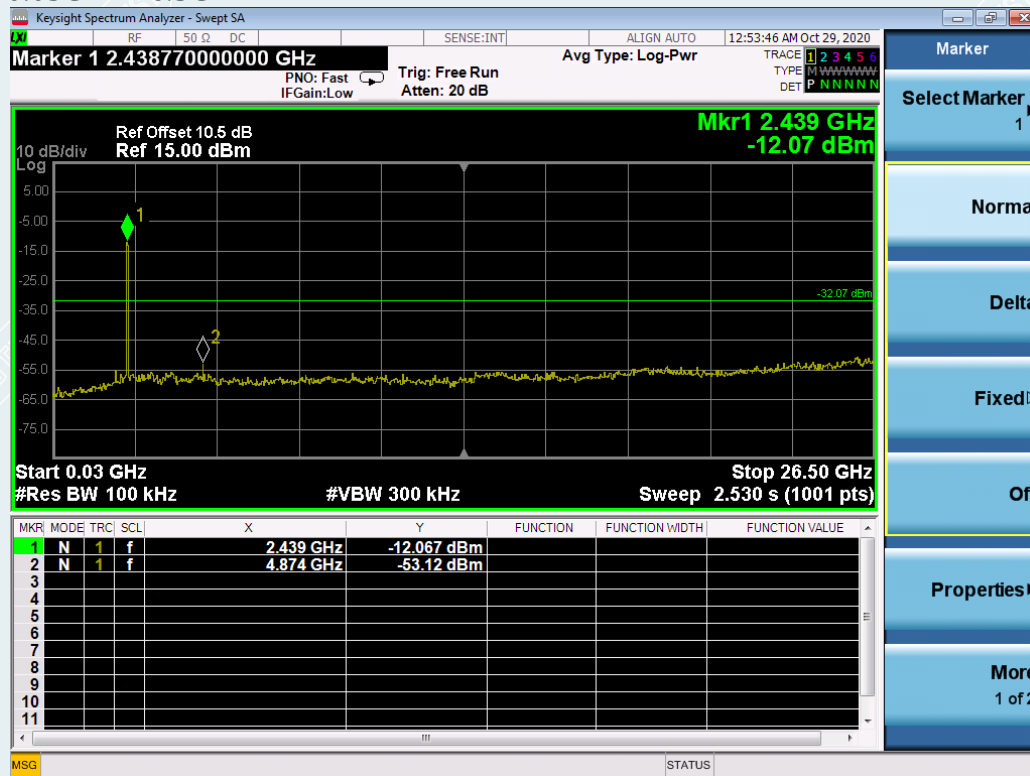
802.11n HT40 mode (antenna 2):
Channel 2422MHz
0.03GHz-26.5GHz



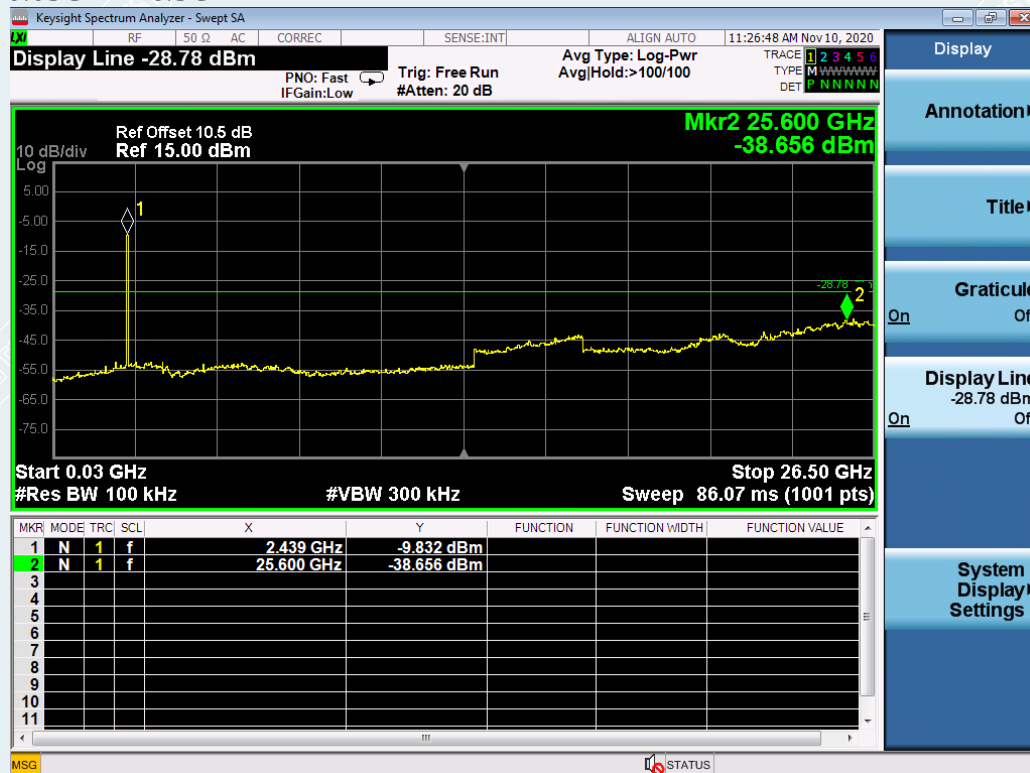
2.31GHz-2.442GHz



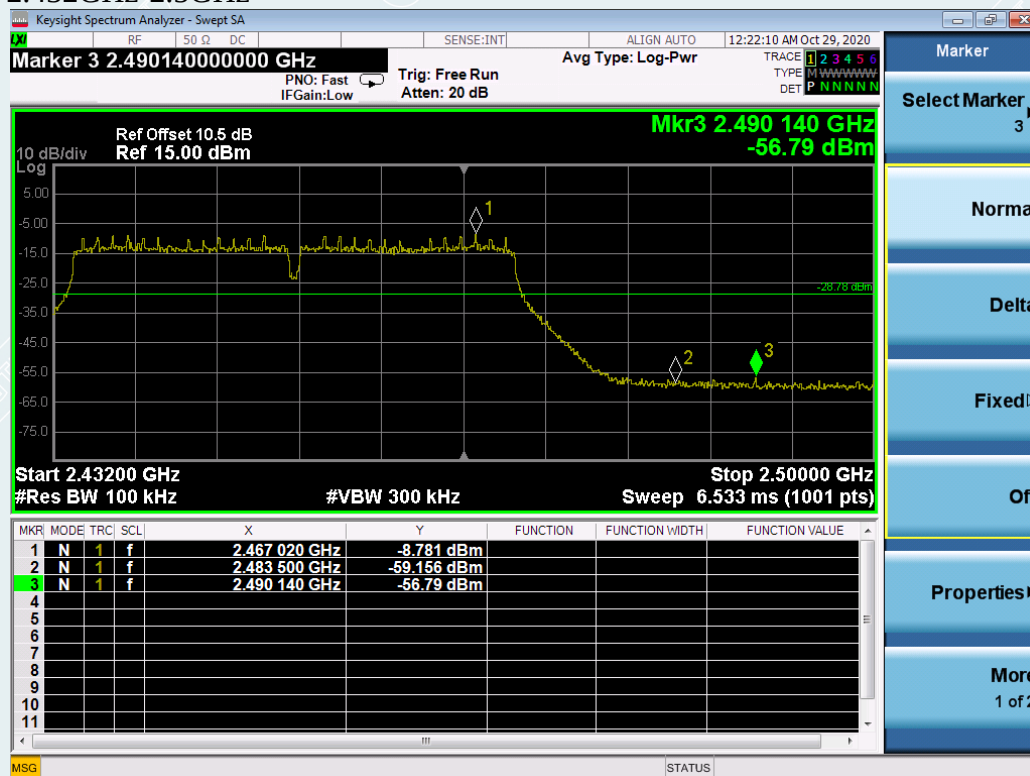
802.11n HT40 mode (antenna 2):
Channel 2437MHz
0.03GHz-26.5GHz



802.11n HT40 mode (antenna 2):
Channel 2452MHz
0.03GHz-26.5GHz



2.432GHz-2.5GHz



11. RESTRICTED BANDS OF OPERATION

11.1. LIMITS

Section 15.247(d) In addition, Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

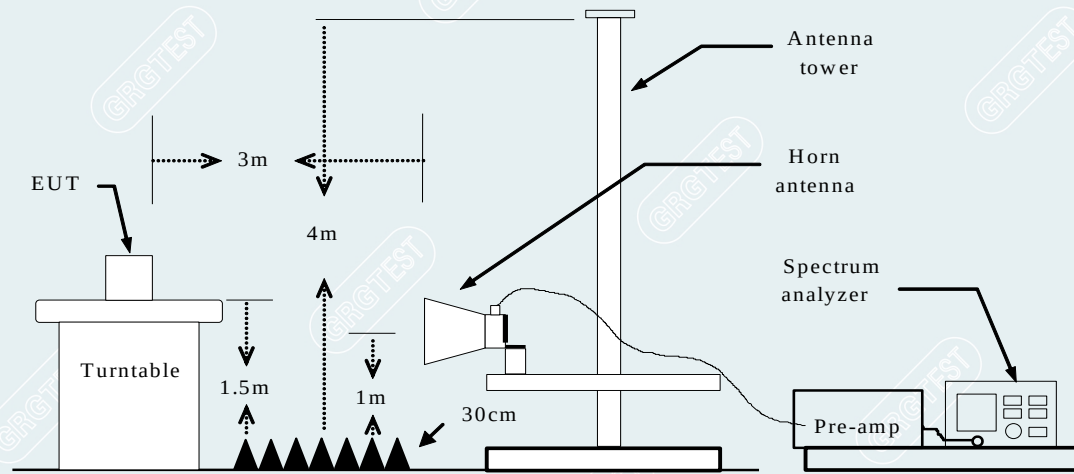
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 -	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.69525	960 - 1240	7.25 - 7.75
4.125 - 4.128	16.80425 -	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	16.80475	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	25.5 - 25.67	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	37.5 - 38.25	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	73 - 74.6	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	74.8 - 75.2	2200 - 2300	14.47 - 14.5
8.291 - 8.294	108 - 121.94	2310 - 2390	15.35 - 16.2
8.362 - 8.366	123 - 138	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	149.9 - 150.05	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.52475 -	3260 - 3267	23.6 - 24.0
12.29 - 12.293	156.52525	3332 - 3339	31.2 - 31.8
12.51975 -	156.7 - 156.9	3345.8 - 3358	36.43 - 36.5
12.52025	162.0125 - 167.17	3600 - 4400	
12.57675 -	167.72 - 173.2		
12.57725	240 - 285		
13.36 - 13.41	322 - 335.4		

11.2. TEST PROCEDURES

Test procedures follow KDB 558074 D01 DTS Meas Guidance v03r01.

- 1) The EUT is placed on a turntable, which is 1.5m above the ground plane.
- 2) The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3) EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 4) Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - a) PEAK: RBW=1MHz / VBW=1MHz / Sweep=AUTO
 - b) AVERAGE: RBW=1MHz / VBW=1/T / Sweep=AUTO
- 5) Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.

11.3. TEST SETUP



11.4. TEST RESULTS

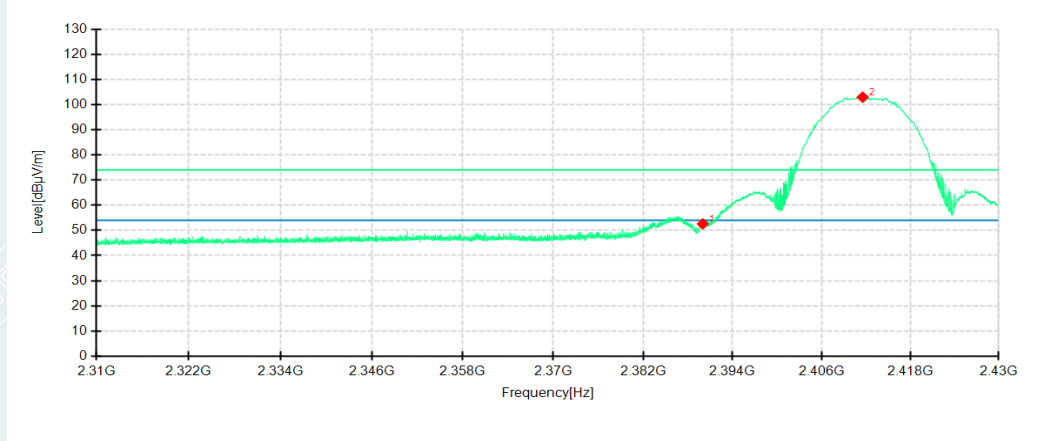
802.11b mode (antenna 1)

Lowest Channel

Channel 2412MHz

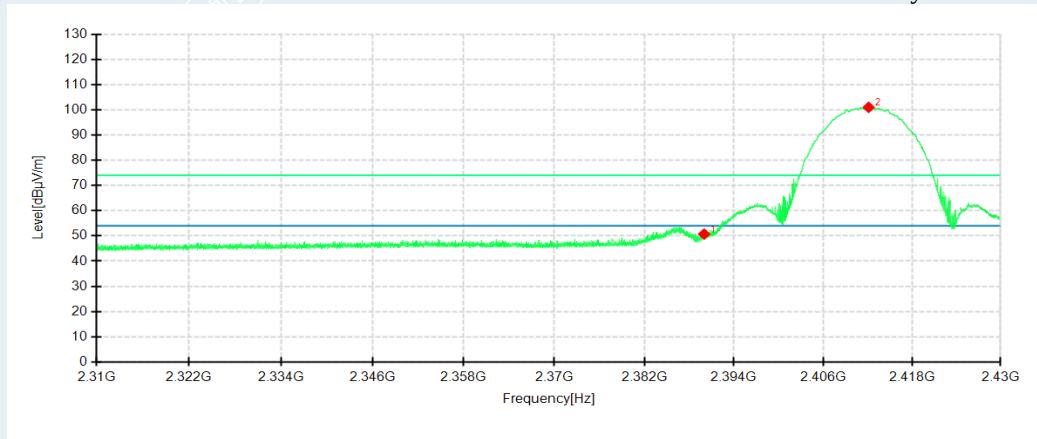
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



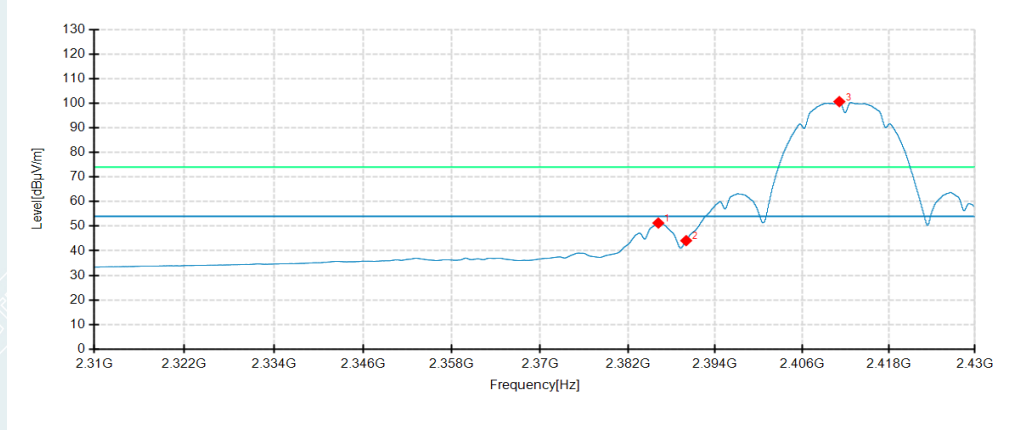
No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole
1	2390.0000	45.74	52.59	6.85	74.00	21.41	100	34	Horizontal
2	2411.5440	96.07	102.92	6.85	74.00	-28.92	100	269	Horizontal
1	2390.0000	43.87	50.72	6.85	74.00	23.28	100	128	Vertical
2	2412.1320	94.13	100.97	6.84	74.00	-26.97	100	128	Vertical

802.11b mode (antenna 1)**Lowest Channel**

Channel 2412MHz

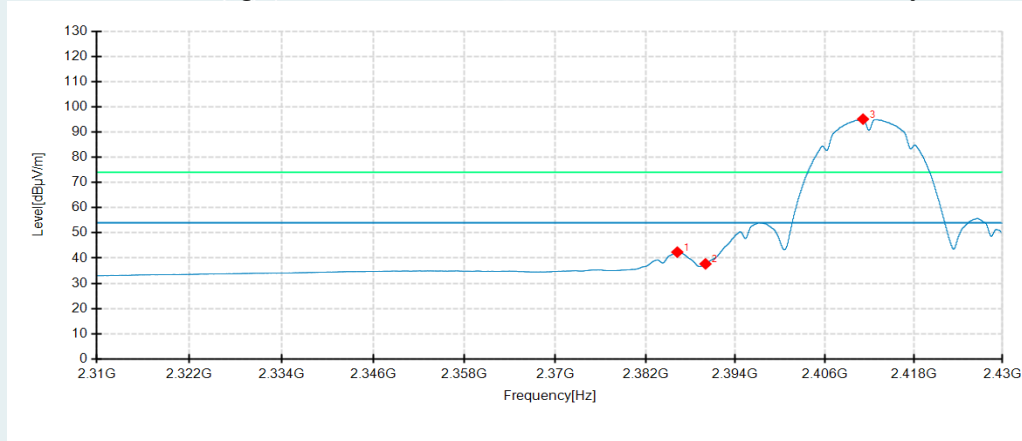
Detector mode: Average

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



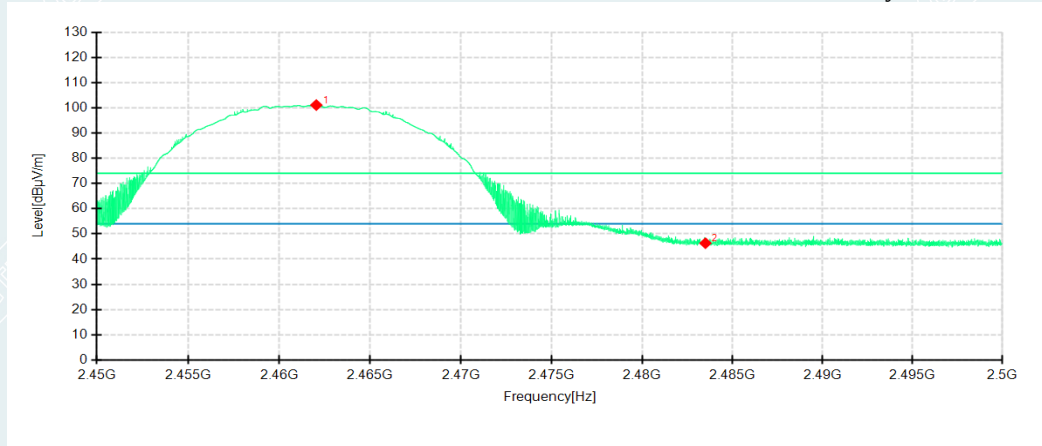
No.	Frequency MHz	Reading dBμV/m	Level dBμV/ m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole
1	2386.1760	44.52	51.28	6.76	54.00	2.72	150	180	Horizontal
2	2390.0040	37.27	44.12	6.85	54.00	9.88	150	190	Horizontal
3	2411.1480	93.77	100.63	6.86	54.00	-46.63	150	230	Horizontal
1	2386.2360	35.62	42.38	6.76	54.00	11.62	150	180	Vertical
2	2390.0040	30.87	37.72	6.85	54.00	16.28	150	190	Vertical
3	2411.1480	88.24	95.10	6.86	54.00	-41.10	150	230	Vertical

802.11b mode (antenna 1)**Highest Channel**

Channel 2462MHz

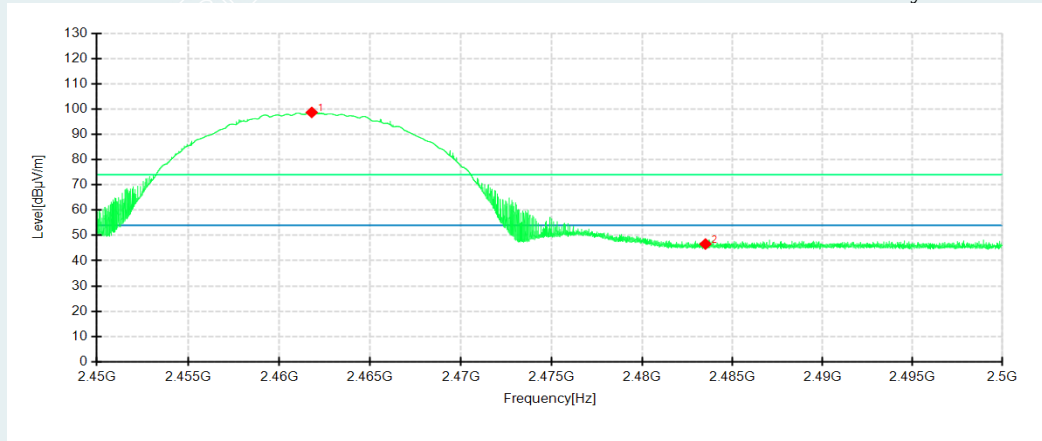
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



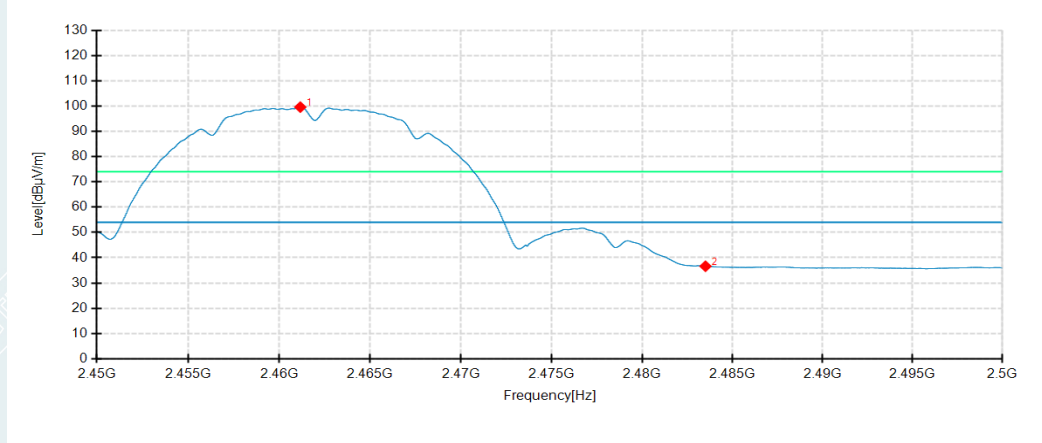
No.	Frequency MHz	Reading dBμV/m	Level dBμV/ m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole
1	2462.0350	95.14	101.08	5.94	74.00	-27.08	100	253	Horizontal
2	2483.5000	40.76	46.32	5.56	74.00	27.68	100	253	Horizontal
1	2461.7850	92.70	98.65	5.95	74.00	-24.65	200	227	Vertical
2	2483.5000	41.04	46.60	5.56	74.00	27.40	100	300	Vertical

802.11b mode (antenna 1)**Highest Channel**

Channel 2462MHz

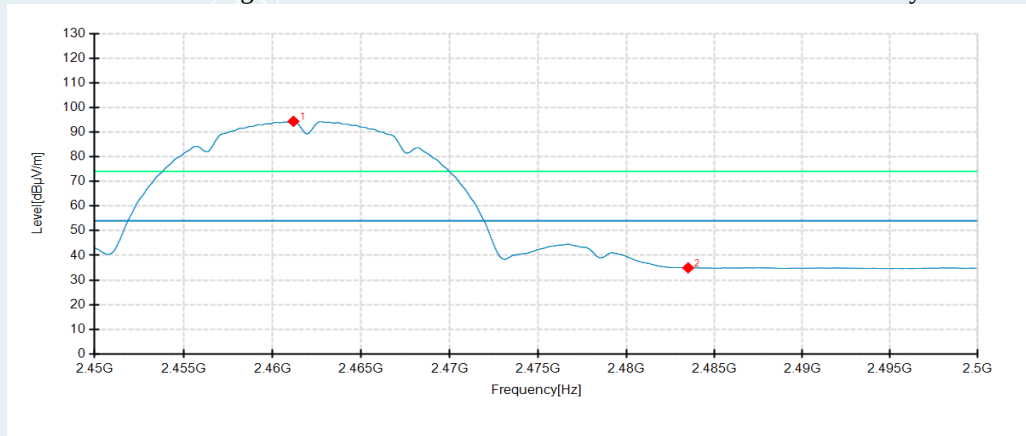
Detector mode: Average

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



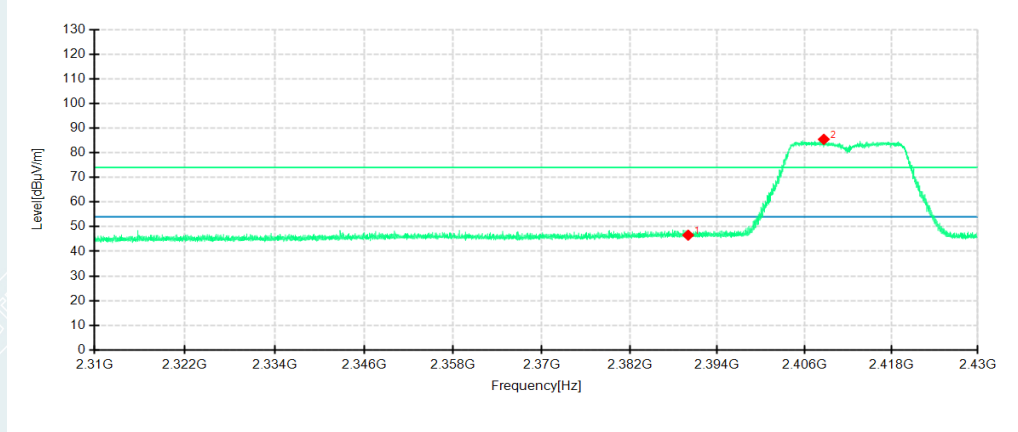
No.	Frequency MHz	Reading dBμV/m	Level dBμV/ m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole
1	2461.1550	93.61	99.57	5.96	54.00	-45.57	150	70	Horizontal
2	2483.5000	31.06	36.62	5.56	54.00	17.38	150	190	Horizontal
1	2461.1800	88.38	94.34	5.96	54.00	-40.34	150	70	Vertical
2	2483.5000	29.38	34.94	5.56	54.00	19.06	150	190	Vertical

802.11g mode (antenna 2)**Lowest Channel**

Channel 2412MHz

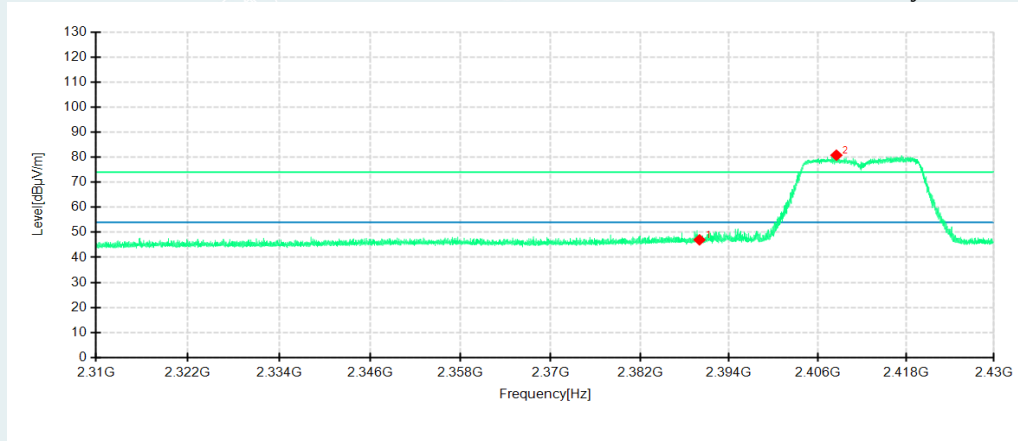
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



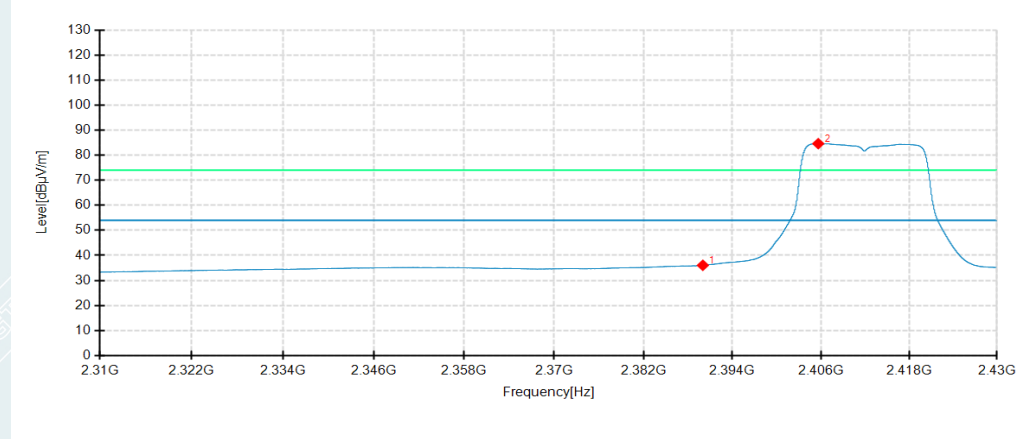
No.	Frequency MHz	Reading dBμV/m	Level dBμV/ m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole
1	2390.0000	39.71	46.56	6.85	74.00	27.44	150	0	Horizontal
2	2408.6640	78.53	85.43	6.90	74.00	-11.43	150	259	Horizontal
1	2390.0000	40.15	47.00	6.85	74.00	27.00	150	161	Vertical
2	2408.5320	73.88	80.79	6.91	74.00	-6.79	150	219	Vertical

802.11g mode (antenna 2)**Lowest Channel**

Channel 2412MHz

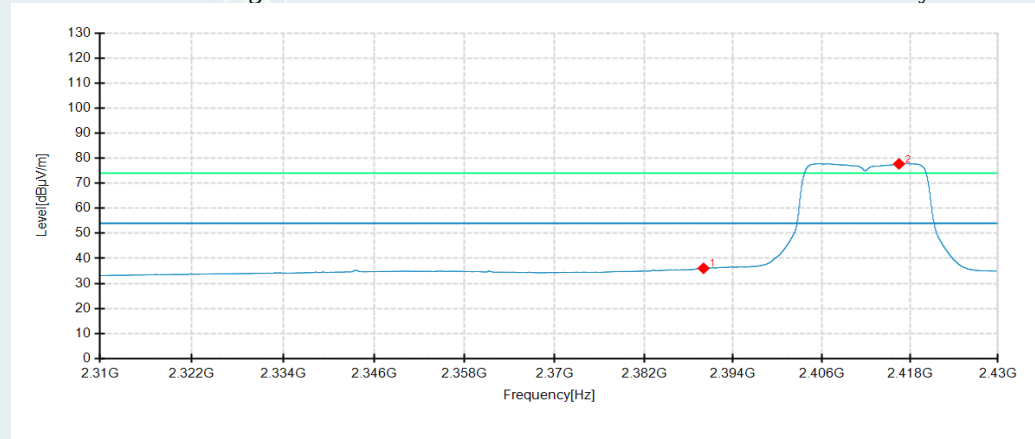
Detector mode: Average

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



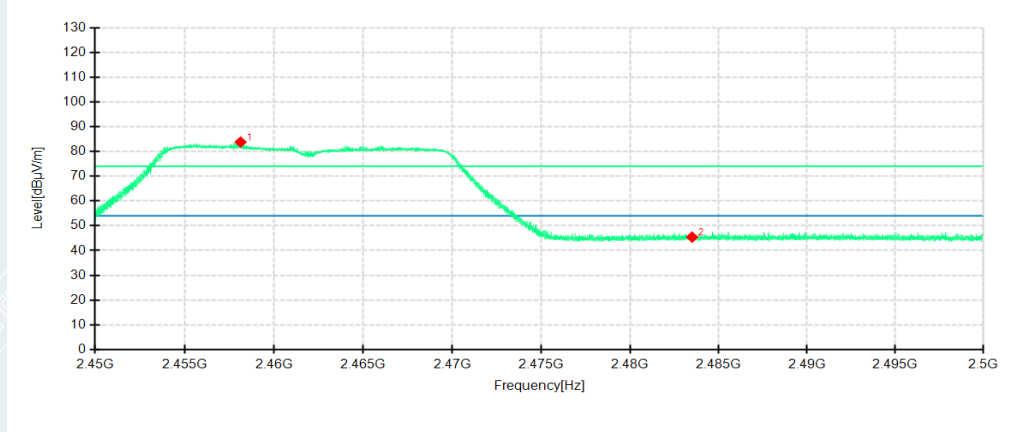
No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole
1	2390.0040	29.19	36.04	6.85	54.00	17.96	150	180	Horizontal
2	2405.6280	77.65	84.61	6.96	54.00	-30.61	150	220	Horizontal
1	2390.0040	29.19	36.04	6.85	54.00	17.96	150	180	Vertical
2	2416.5000	70.95	77.71	6.76	54.00	-23.71	150	250	Vertical

802.11g mode (antenna 2)**Highest Channel**

Channel 2462MHz

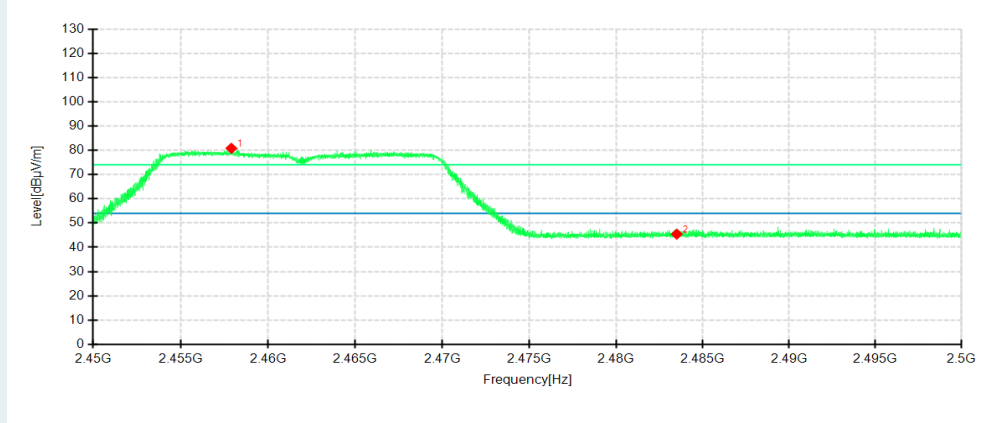
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



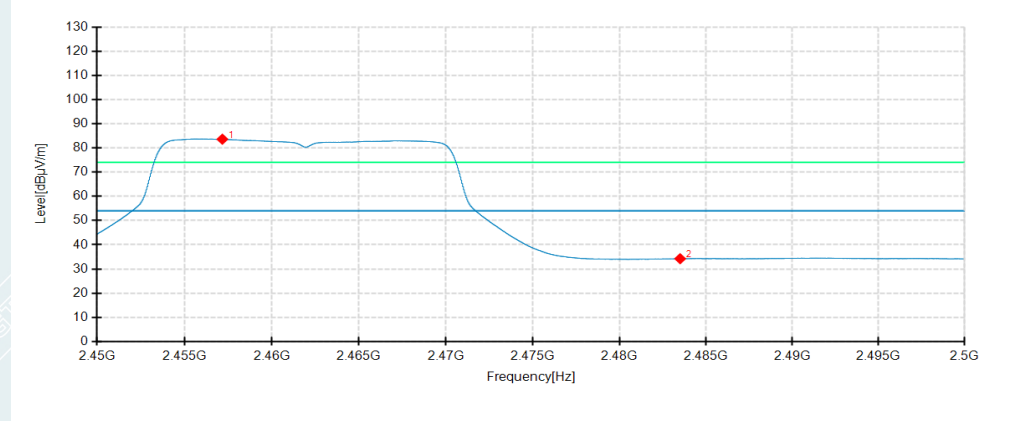
No.	Frequency MHz	Reading dBμV/m	Level dBμV/ m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole
1	2458.1300	77.75	83.76	6.01	74.00	-9.76	150	252	Horizontal
2	2483.5000	39.85	45.41	5.56	74.00	28.59	150	15	Horizontal
1	2457.9000	74.80	80.82	6.02	74.00	-6.82	150	224	Vertical
2	2483.5000	39.88	45.44	5.56	74.00	28.56	150	11	Vertical

802.11g mode (antenna 2)**Highest Channel**

Channel 2462MHz

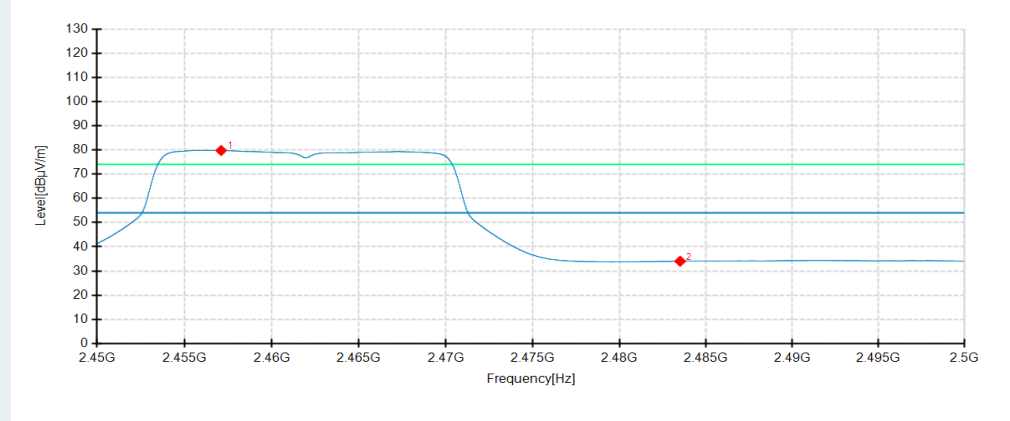
Detector mode: Average

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



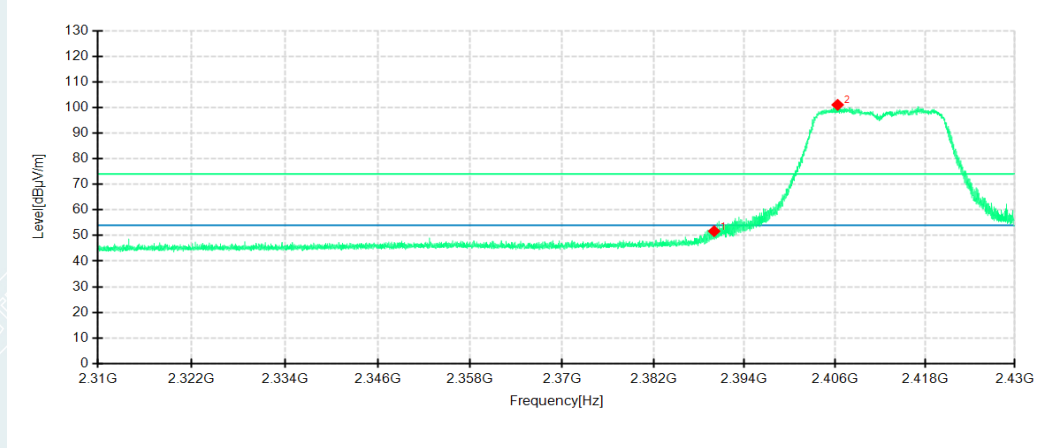
No.	Frequency MHz	Reading dBμV/m	Level dBμV/ m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole
1	2457.1700	77.57	83.60	6.03	54.00	-29.60	150	50	Horizontal
2	2483.5000	28.67	34.23	5.56	54.00	19.77	150	180	Horizontal
1	2457.1000	73.73	79.76	6.03	54.00	-25.76	150	50	Vertical
2	2483.5000	28.45	34.01	5.56	54.00	19.99	150	190	Vertical

802.11n HT20 mode**Lowest Channel**

Channel 2412MHz

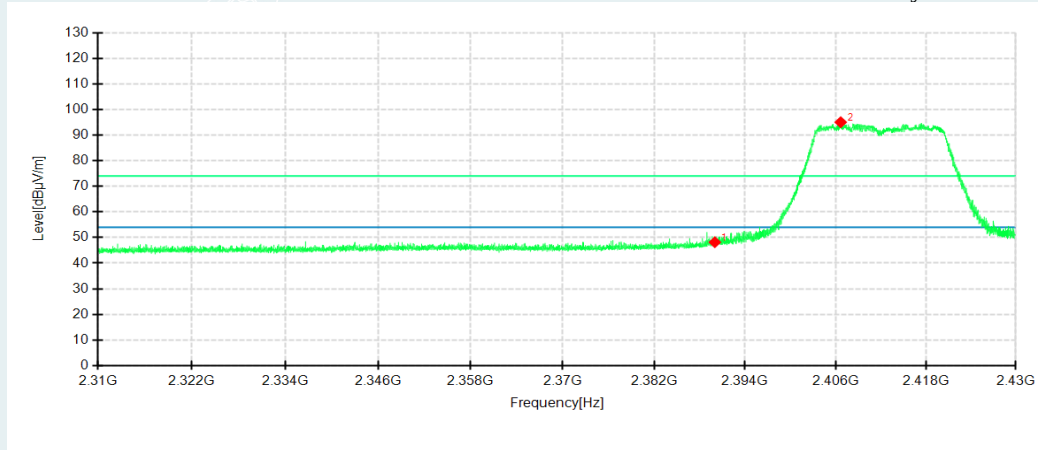
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



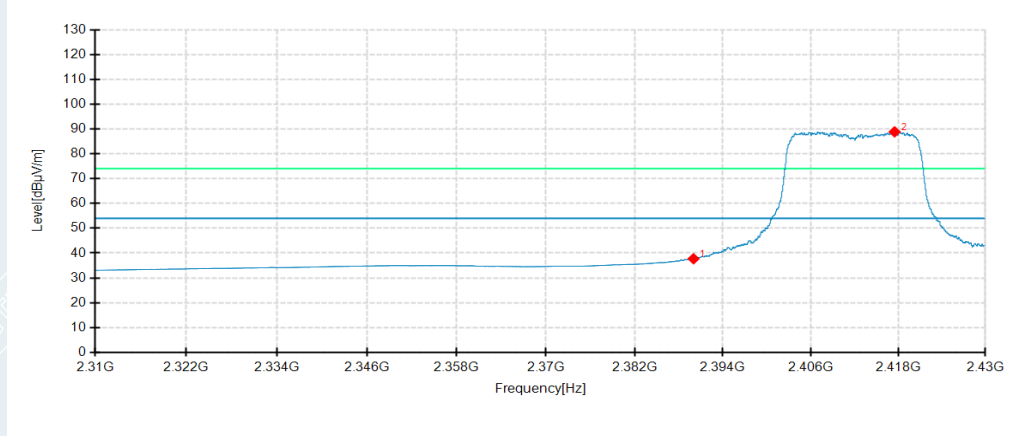
No.	Frequency MHz	Reading dBμV/m	Level dBμV/ m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole
1	2390.0000	44.85	51.70	6.85	74.00	22.30	150	271	Horizontal
2	2406.3600	94.06	101.01	6.95	74.00	-27.01	150	263	Horizontal
1	2390.0000	41.32	48.17	6.85	74.00	25.83	150	218	Vertical
2	2406.6600	88.07	95.01	6.94	74.00	-21.01	150	126	Vertical

802.11n HT20 mode**Lowest Channel**

Channel 2412MHz

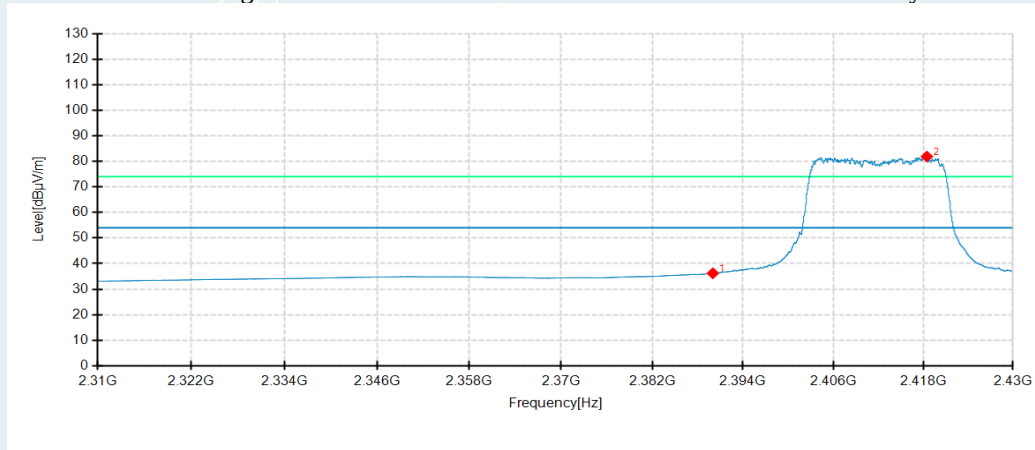
Detector mode: Average

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



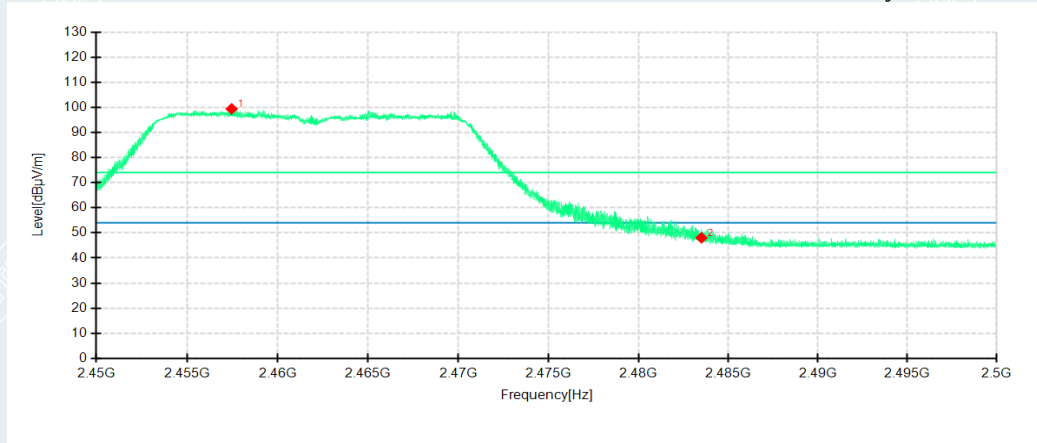
No.	Frequency MHz	Reading dBμV/m	Level dBμV/ m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole
1	2390.0040	30.86	37.71	6.85	54.00	16.29	150	340	Horizontal
2	2417.5080	82.10	88.84	6.74	54.00	-34.84	150	80	Horizontal
1	2390.0040	29.35	36.20	6.85	54.00	17.80	150	130	Vertical
2	2418.4800	75.13	81.86	6.73	54.00	-27.86	150	130	Vertical

802.11n HT20 mode**Highest Channel**

Channel 2462MHz

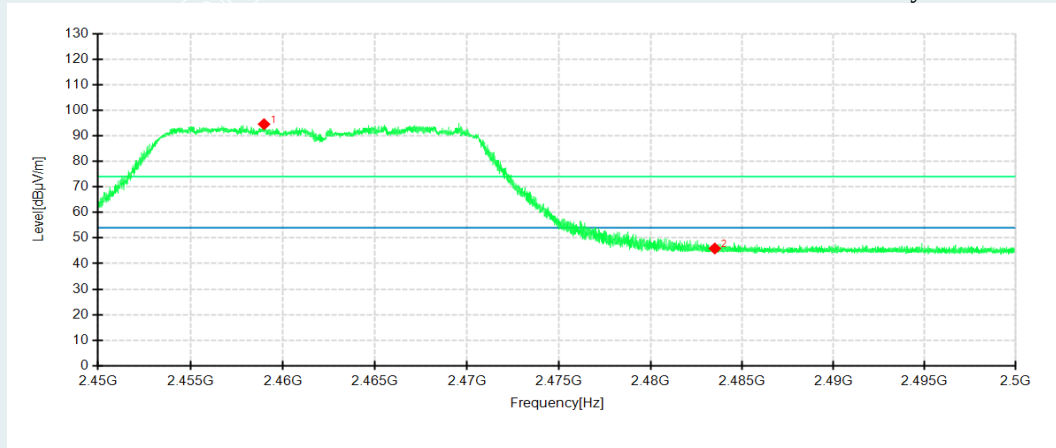
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



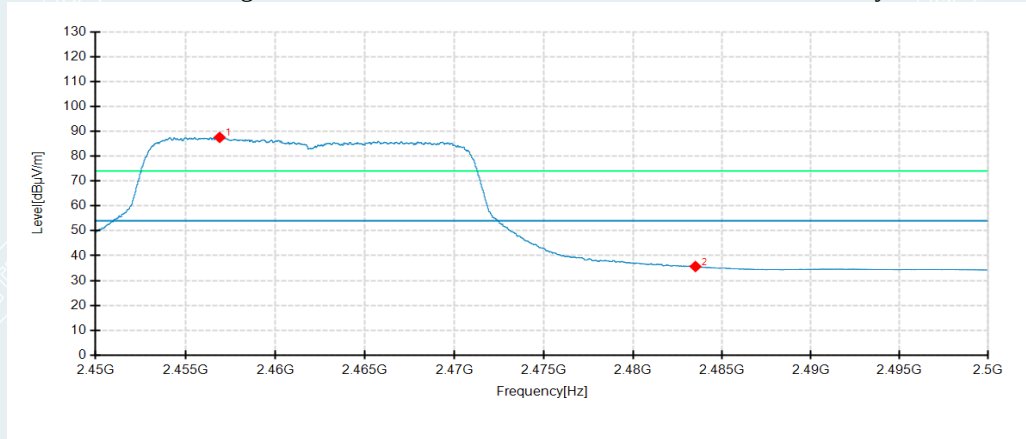
No.	Frequency MHz	Reading dBμV/m	Level dBμV/ m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole
1	2457.4600	93.35	99.38	6.03	74.00	-25.38	150	258	Horizontal
2	2483.5000	42.46	48.02	5.56	74.00	25.98	150	215	Horizontal
1	2458.9800	88.53	94.53	6.00	74.00	-20.53	150	220	Vertical
2	2483.5000	40.34	45.90	5.56	74.00	28.10	150	261	Vertical

802.11n HT20 mode**Highest Channel**

Channel 2462MHz

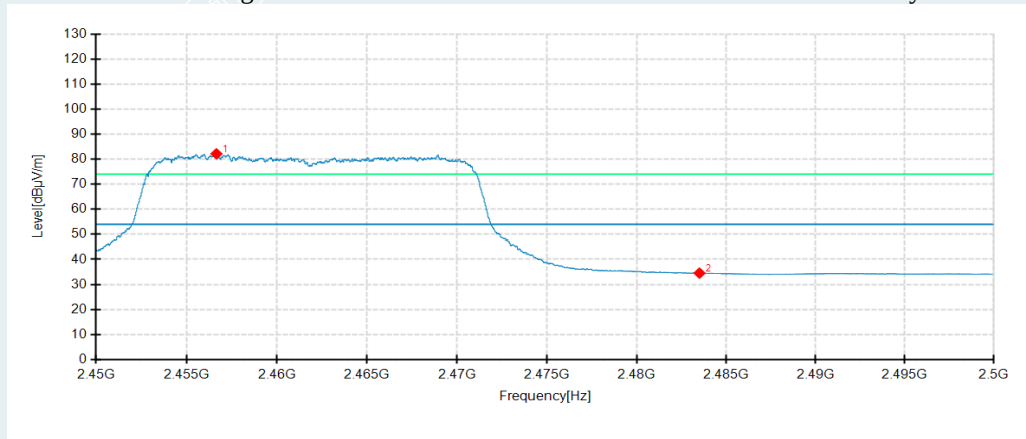
Detector mode: Average

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



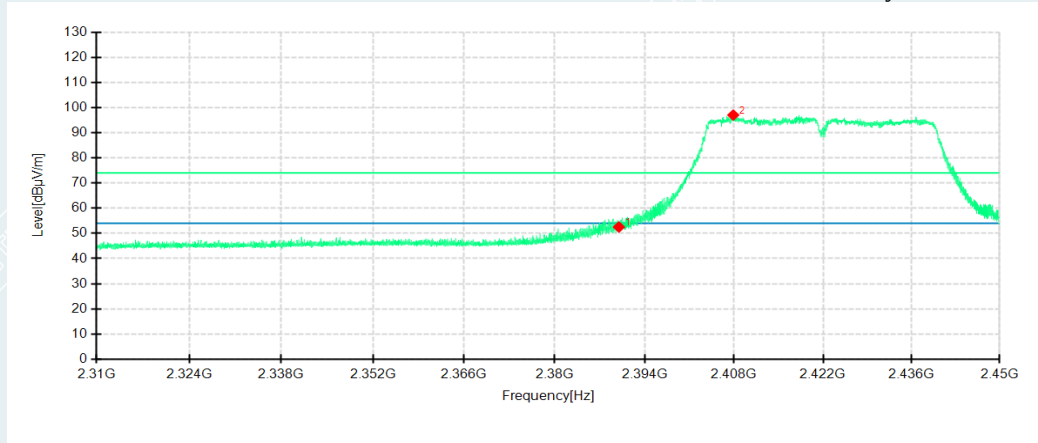
No.	Frequency MHz	Reading dBμV/m	Level dBμV/ m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole
1	2456.9000	81.49	87.53	6.04	54.00	-33.53	150	50	Horizontal
2	2483.5000	30.08	35.64	5.56	54.00	18.36	150	140	Horizontal
1	2456.6550	76.10	82.14	6.04	54.00	-28.14	150	120	Vertical
2	2483.5000	28.96	34.52	5.56	54.00	19.48	150	90	Vertical

802.11n HT40 mode**Lowest Channel**

Channel 2422MHz

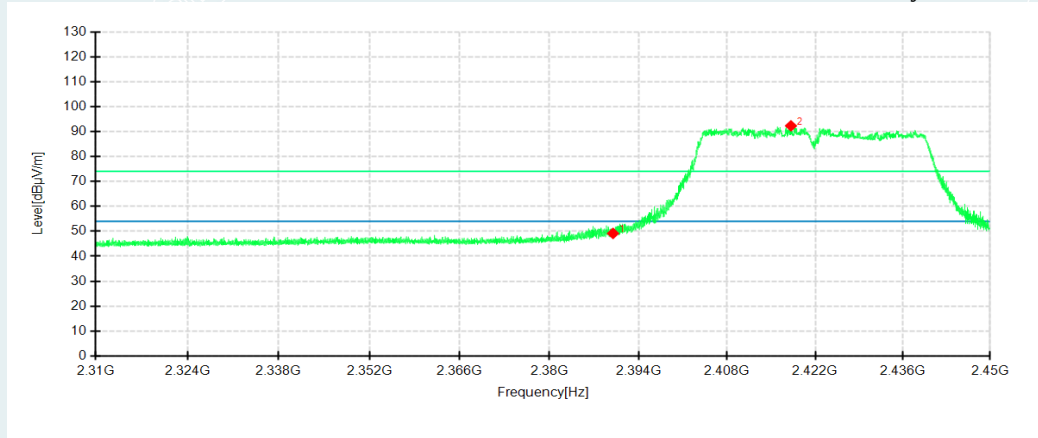
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



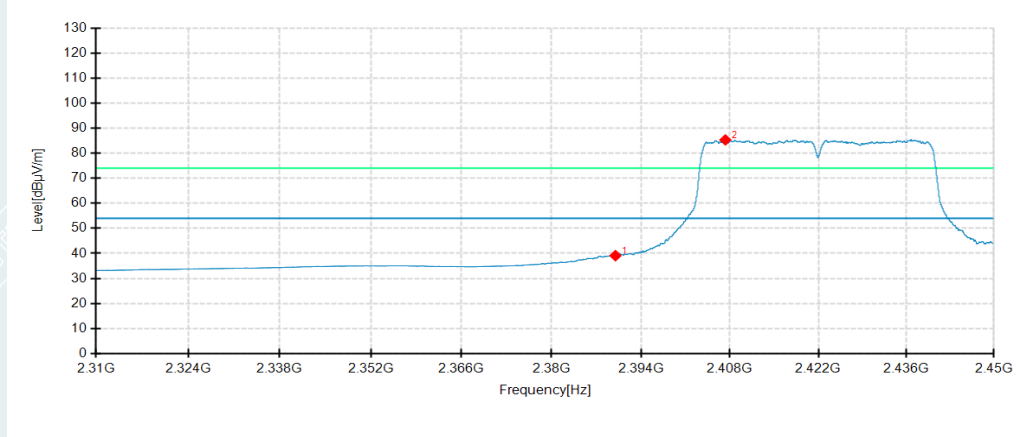
No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole
1	2390.0000	45.69	52.54	6.85	74.00	21.46	150	287	Horizontal
2	2407.8740	90.09	97.01	6.92	74.00	-23.01	150	272	Horizontal
1	2390.0000	42.30	49.15	6.85	74.00	24.85	150	117	Vertical
2	2418.1360	85.55	92.28	6.73	74.00	-18.28	150	113	Vertical

802.11n HT40 mode**Lowest Channel**

Channel 2422MHz

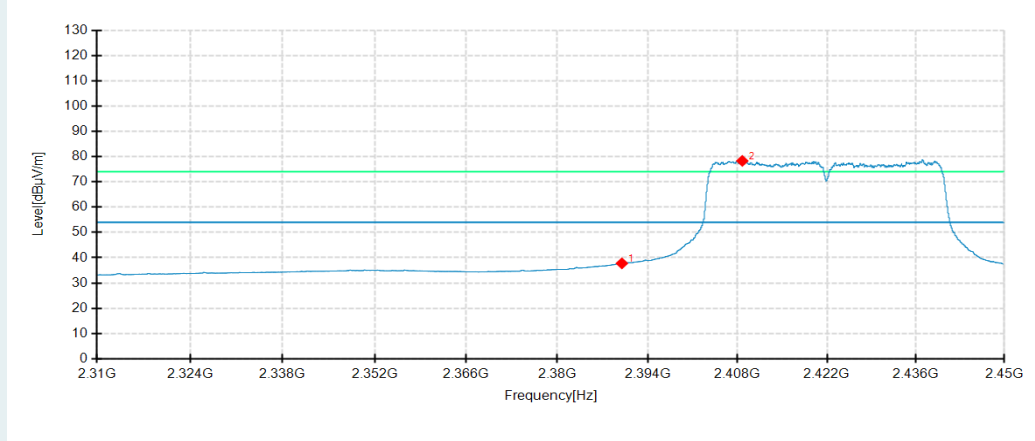
Detector mode: Average

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



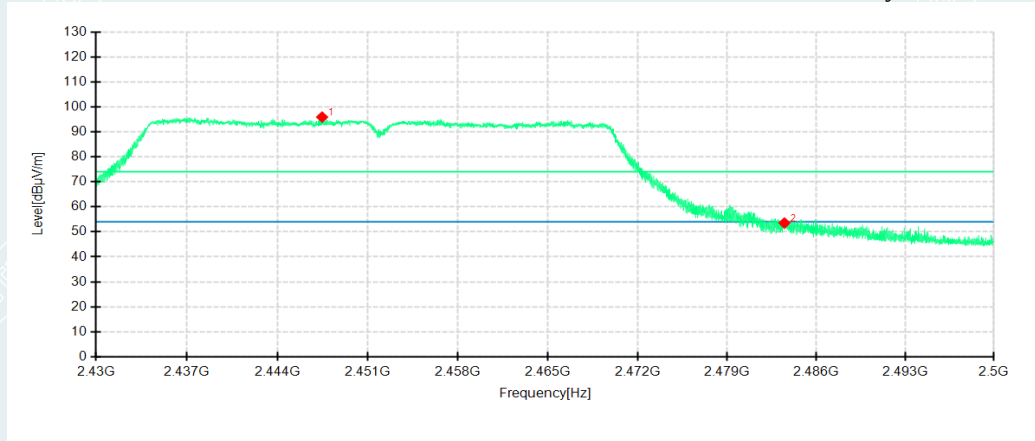
No.	Frequency MHz	Reading dBμV/m	Level dBμV/ m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole
1	2390.0100	32.23	39.08	6.85	54.00	14.92	150	160	Horizontal
2	2407.2860	78.37	85.30	6.93	54.00	-31.30	150	190	Horizontal
1	2390.0100	30.92	37.77	6.85	54.00	16.23	150	80	Vertical
2	2408.7420	71.40	78.30	6.90	54.00	-24.30	150	80	Vertical

802.11n HT40 mode**Highest Channel**

Channel 2452MHz

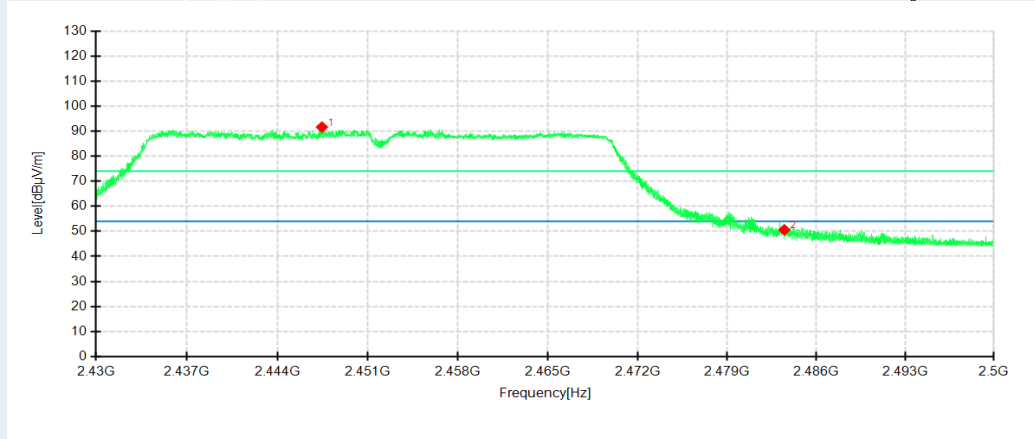
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



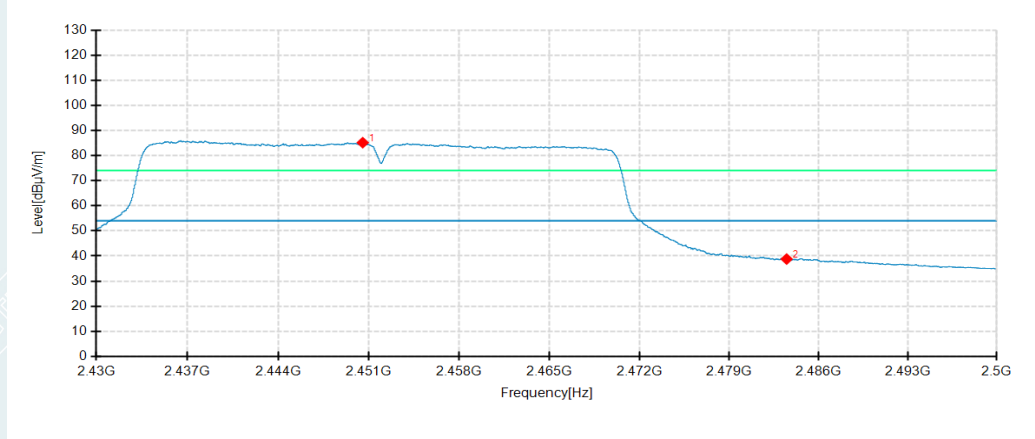
No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole
1	2447.4510	89.69	95.90	6.21	74.00	-21.90	150	278	Horizontal
2	2483.5000	47.97	53.53	5.56	74.00	20.47	150	263	Horizontal
1	2447.4370	85.40	91.61	6.21	74.00	-17.61	150	283	Vertical
2	2483.5000	45.03	50.59	5.56	74.00	23.41	150	236	Vertical

802.11n HT40 mode**Highest Channel**

Channel 2452MHz

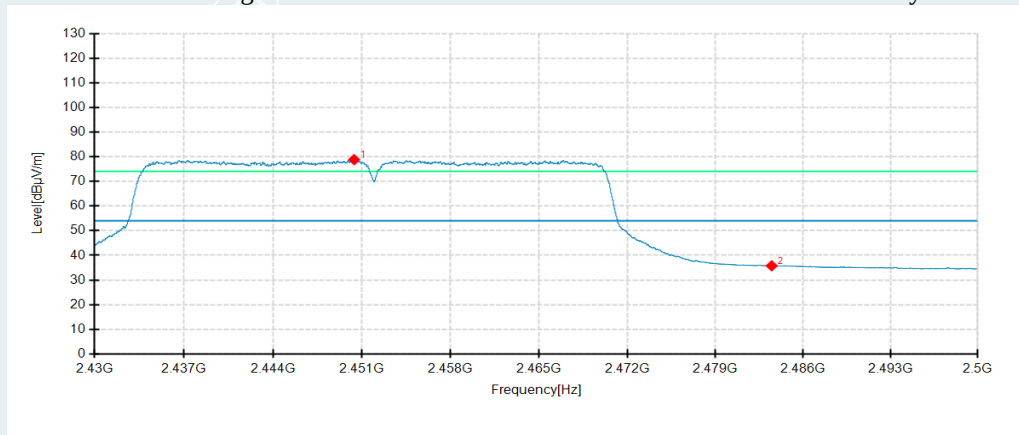
Detector mode: Average

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole
1	2450.5170	78.97	85.12	6.15	54.00	-31.12	150	80	Horizontal
2	2483.5010	33.20	38.76	5.56	54.00	15.24	150	290	Horizontal
1	2450.3770	72.67	78.82	6.15	54.00	-24.82	150	160	Vertical
2	2483.5010	30.20	35.76	5.56	54.00	18.24	150	160	Vertical

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