

Test mode : 802.11g_ Above 1 GHz / Lowest Frequency

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Ant Factor (dB)	Loss	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2 389.75	PK	H	64.80	32.10	-25.50	-	71.40	83.54	12.14
2 389.75	AV	H	45.50	32.10	-25.50	0.00	52.10	63.54	11.44
2 389.75	PK	V	59.00	32.10	-25.50	-	65.60	83.54	17.94
2 389.75	AV	V	46.70	32.10	-25.50	0.00	53.30	63.54	10.24
Above 3 GHz	Not Detected	-	-	-	-	-	-	-	

- Note 1 : Loss : Cable loss - Amp gain + site factor
 Note 2 : Peak Result : Reading + Ant Factor + Loss
 Note 3 : Average Reasult : Reading + Ant Factor + Loss + Dutycycle Factor
 Dutycycle Factor : $20\log(\text{Dutycycle})$ * Refer to 4.4.5.7
 Note 4 : Below 1 GHz Measured distance : 3 m, Above 1 GHz Measured distance : 1 m
 Above 1 GHz Distance Factor = $20\log(1 / 3) = -9.54$
 Above 1 GHz Limit Peak = $74 - (-9.54) = 83.54$
 Above 1 GHz Limit Average = $54 - (-9.54) = 63.54$
 Note 5 : Average measurement did not take place because the peak data did not exceed Average Limit.
 Note 6 : Not Detected means that peak data does not exceed the average limit

Test mode : 802.11g_ Above 1 GHz / Middle Frequency

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Ant Factor (dB)	Loss	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 3 GHz	Not Detected	-	-	-	-	-	-	-	

- Note 1 : Loss : Cable loss - Amp gain + site factor
 Note 2 : Peak Result : Reading + Ant Factor + Loss
 Note 3 : Average Reasult : Reading + Ant Factor + Loss + Dutycycle Factor
 Dutycycle Factor : $20\log(\text{Dutycycle})$ * Refer to 4.4.5.7
 Note 4 : Below 1 GHz Measured distance : 3 m, Above 1 GHz Measured distance : 1 m
 Above 1 GHz Distance Factor = $20\log(1 / 3) = -9.54$
 Above 1 GHz Limit Peak = $74 - (-9.54) = 83.54$
 Above 1 GHz Limit Average = $54 - (-9.54) = 63.54$
 Note 5 : Average measurement did not take place because the peak data did not exceed Average Limit.
 Note 6 : Not Detected means that peak data does not exceed the average limit

Test mode : 802.11g_ Above 1 GHz / Highest Frequency

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Ant Factor (dB)	Loss	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2 484.09	PK	H	70.40	32.20	-25.30	-	77.30	83.54	6.24
2 484.09	AV	H	51.60	32.20	-25.30	0.00	58.50	63.54	5.04
2 487.75	PK	V	74.10	32.20	-25.30	-	81.00	83.54	2.54
2 487.75	AV	V	47.90	32.20	-25.30	0.00	54.80	63.54	8.74
Above 3 GHz	Not Detected	-	-	-	-	-	-	-	

- Note 1 : Loss : Cable loss - Amp gain + site factor
 Note 2 : Peak Result : Reading + Ant Factor + Loss
 Note 3 : Average Reasult : Reading + Ant Factor + Loss + Dutycycle Factor
 Dutycycle Factor : $20\log(\text{Dutycycle})$ * Refer to 4.4.5.7
 Note 4 : Below 1 GHz Measured distance : 3 m, Above 1 GHz Measured distance : 1 m
 Above 1 GHz Distance Factor = $20\log(1 / 3) = -9.54$
 Above 1 GHz Limit Peak = $74 - (-9.54) = 83.54$
 Above 1 GHz Limit Average = $54 - (-9.54) = 63.54$
 Note 5 : Average measurement did not take place because the peak data did not exceed Average Limit.
 Note 6 : Not Detected means that peak data does not exceed the average limit

Test mode : 802.11n_HT20_ Above 1 GHz / Lowest Frequency

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Ant Factor (dB)	Loss	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2 388.00	PK	H	68.40	32.10	-25.50	-	75.00	83.54	8.54
2 388.00	AV	H	44.20	32.10	-25.50	0.00	50.80	63.54	12.74
2 389.75	PK	V	65.40	32.10	-25.50	-	72.00	83.54	11.54
2 389.75	AV	V	46.70	32.10	-25.50	0.00	53.30	63.54	10.24
Above 3 GHz	Not Detected	-	-	-	-	-	-	-	

Note 1 : Loss : Cable loss - Amp gain + site factor

Note 2 : Peak Result : Reading + Ant Factor + Loss

Note 3 : Average Reasult : Reading + Ant Factor + Loss + Dutycycle Factor

 Dutycycle Factor : $20\log(\text{Dutycycle})$ * Refer to 4.4.5.7

Note 4 : Below 1 GHz Measured distance : 3 m, Above 1 GHz Measured distance : 1 m

 Above 1 GHz Distance Factor = $20\log(1 / 3) = -9.54$

 Above 1 GHz Limit Peak = $74 - (-9.54) = 83.54$

 Above 1 GHz Limit Average = $54 - (-9.54) = 63.54$

Note 5 : Average measurement did not take place because the peak data did not exceed Average Limit.

Note 6 : Not Detected means that peak data does not exceed the average limit

Test mode : 802.11n_HT20_ Above 1 GHz / Middle Frequency

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Ant Factor (dB)	Loss	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 3 GHz	Not Detected	-	-	-	-	-	-	-	

Note 1 : Loss : Cable loss - Amp gain + site factor

Note 2 : Peak Result : Reading + Ant Factor + Loss

Note 3 : Average Reasult : Reading + Ant Factor + Loss + Dutycycle Factor

 Dutycycle Factor : $20\log(\text{Dutycycle})$ * Refer to 4.4.5.7

Note 4 : Below 1 GHz Measured distance : 3 m, Above 1 GHz Measured distance : 1 m

 Above 1 GHz Distance Factor = $20\log(1 / 3) = -9.54$

 Above 1 GHz Limit Peak = $74 - (-9.54) = 83.54$

 Above 1 GHz Limit Average = $54 - (-9.54) = 63.54$

Note 5 : Average measurement did not take place because the peak data did not exceed Average Limit.

Note 6 : Not Detected means that peak data does not exceed the average limit

Test mode : 802.11n_HT20_ Above 1 GHz / Highest Frequency

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Ant Factor (dB)	Loss	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2 485.01	PK	H	70.60	32.20	-25.30	-	77.70	83.54	5.84
2 485.01	AV	H	49.90	32.20	-25.30	0.00	57.00	63.54	6.54
2 488.15	PK	V	73.20	32.20	-25.30	-	80.30	83.54	3.24
2 488.15	AV	V	51.00	32.20	-25.30	0.00	58.10	63.54	5.44
Above 3 GHz	Not Detected	-	-	-	-	-	-	-	

Note 1 : Loss : Cable loss - Amp gain + site factor

Note 2 : Peak Result : Reading + Ant Factor + Loss

Note 3 : Average Reasult : Reading + Ant Factor + Loss + Dutycycle Factor

 Dutycycle Factor : $20\log(\text{Dutycycle})$ * Refer to 4.4.5.7

Note 4 : Below 1 GHz Measured distance : 3 m, Above 1 GHz Measured distance : 1 m

 Above 1 GHz Distance Factor = $20\log(1 / 3) = -9.54$

 Above 1 GHz Limit Peak = $74 - (-9.54) = 83.54$

 Above 1 GHz Limit Average = $54 - (-9.54) = 63.54$

Note 5 : Average measurement did not take place because the peak data did not exceed Average Limit.

Note 6 : Not Detected means that peak data does not exceed the average limit

Test mode : 802.11n_HT40_ Above 1 GHz / Lowest Frequency

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Ant Factor (dB)	Loss	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2 388.50	PK	H	64.40	32.10	-25.50	-	71.00	83.54	12.54
2 388.50	AV	H	44.00	32.10	-25.50	0.00	50.60	63.54	12.94
2 387.50	PK	V	64.40	32.10	-25.50	-	71.00	83.54	12.54
2 387.50	AV	V	43.10	32.10	-25.50	0.00	49.70	63.54	13.84
Above 3 GHz	Not Detected	-	-	-	-	-	-	-	

Note 1 : Loss : Cable loss - Amp gain + site factor

Note 2 : Peak Result : Reading + Ant Factor + Loss

Note 3 : Average Reasult : Reading + Ant Factor + Loss + Dutycycle Factor

 Dutycycle Factor : $20\log(\text{Dutycycle})$ * Refer to 4.4.5.7

Note 4 : Below 1 GHz Measured distance : 3 m, Above 1 GHz Measured distance : 1 m

 Above 1 GHz Distance Factor = $20\log(1 / 3) = -9.54$

 Above 1 GHz Limit Peak = $74 - (-9.54) = 83.54$

 Above 1 GHz Limit Average = $54 - (-9.54) = 63.54$

Note 5 : Average measurement did not take place because the peak data did not exceed Average Limit.

Note 6 : Not Detected means that peak data does not exceed the average limit

Test mode : 802.11n_HT40_ Above 1 GHz / Middle Frequency

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Ant Factor (dB)	Loss	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Above 3 GHz	Not Detected	-	-	-	-	-	-	-	

Note 1 : Loss : Cable loss - Amp gain + site factor

Note 2 : Peak Result : Reading + Ant Factor + Loss

Note 3 : Average Reasult : Reading + Ant Factor + Loss + Dutycycle Factor

 Dutycycle Factor : $20\log(\text{Dutycycle})$ * Refer to 4.4.5.7

Note 4 : Below 1 GHz Measured distance : 3 m, Above 1 GHz Measured distance : 1 m

 Above 1 GHz Distance Factor = $20\log(1 / 3) = -9.54$

 Above 1 GHz Limit Peak = $74 - (-9.54) = 83.54$

 Above 1 GHz Limit Average = $54 - (-9.54) = 63.54$

Note 5 : Average measurement did not take place because the peak data did not exceed Average Limit.

Note 6 : Not Detected means that peak data does not exceed the average limit

Test mode : 802.11n_HT40_ Above 1 GHz / Highest Frequency

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Ant Factor (dB)	Loss	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2 485.25	PK	H	70.90	32.20	-25.30	-	77.80	83.54	5.74
2 485.25	AV	H	45.90	32.20	-25.30	0.00	52.80	63.54	10.74
2 485.25	PK	V	65.80	32.20	-25.30	-	72.70	83.54	10.84
2 485.25	AV	V	46.90	32.20	-25.30	0.00	53.80	63.54	9.74
Above 3 GHz	Not Detected	-	-	-	-	-	-	-	

Note 1 : Loss : Cable loss - Amp gain + site factor

Note 2 : Peak Result : Reading + Ant Factor + Loss

Note 3 : Average Reasult : Reading + Ant Factor + Loss + Dutycycle Factor

 Dutycycle Factor : $20\log(\text{Dutycycle})$ * Refer to 4.4.5.7

Note 4 : Below 1 GHz Measured distance : 3 m, Above 1 GHz Measured distance : 1 m

 Above 1 GHz Distance Factor = $20\log(1 / 3) = -9.54$

 Above 1 GHz Limit Peak = $74 - (-9.54) = 83.54$

 Above 1 GHz Limit Average = $54 - (-9.54) = 63.54$

Note 5 : Average measurement did not take place because the peak data did not exceed Average Limit.

Note 6 : Not Detected means that peak data does not exceed the average limit

Test mode : WLAN2.4 + Bluetooth

Frequency (MHz)	Detector	Pol. (V/H)	Reading (dBμV)	Ant Factor (dB)	Loss	Dutycycle Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2 484.04	PK	H	68.00	32.20	-25.30	-	74.90	83.54	8.64
2 484.04	AV	H	50.00	32.20	-25.30	0.00	56.90	63.54	6.64
2 484.04	PK	V	72.00	32.20	-25.30	-	78.90	83.54	4.64
2 484.04	AV	V	52.00	32.20	-25.30	0.00	58.90	63.54	4.64
Above 3 GHz	Not Detected	-	-	-	-	-	-	-	

Note 1 : Loss : Cable loss - Amp gain + site factor

Note 2 : Peak Result : Reading + Ant Factor + Loss

Note 3 : Average Reasult : Reading + Ant Factor + Loss + Dutycycle Factor

Dutycycle Factor : $20\log(\text{Dutycycle})$ * Refer to 4.4.5.7

Note 4 : Below 1 GHz Measured distance : 3 m, Above 1 GHz Measured distance : 1 m

Above 1 GHz Distance Factor = $20\log(1 / 3) = -9.54$

Above 1 GHz Limit Peak = $74 - (-9.54) = 83.54$

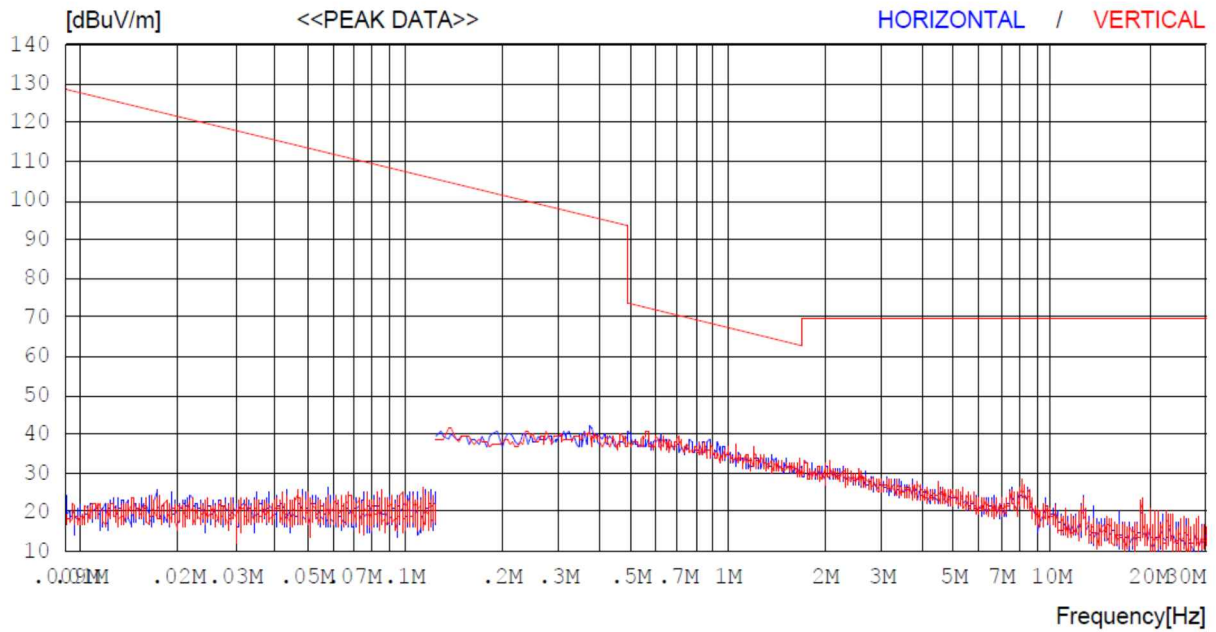
Above 1 GHz Limit Average = $54 - (-9.54) = 63.54$

Note 5 : Average measurement did not take place because the peak data did not exceed Average Limit.

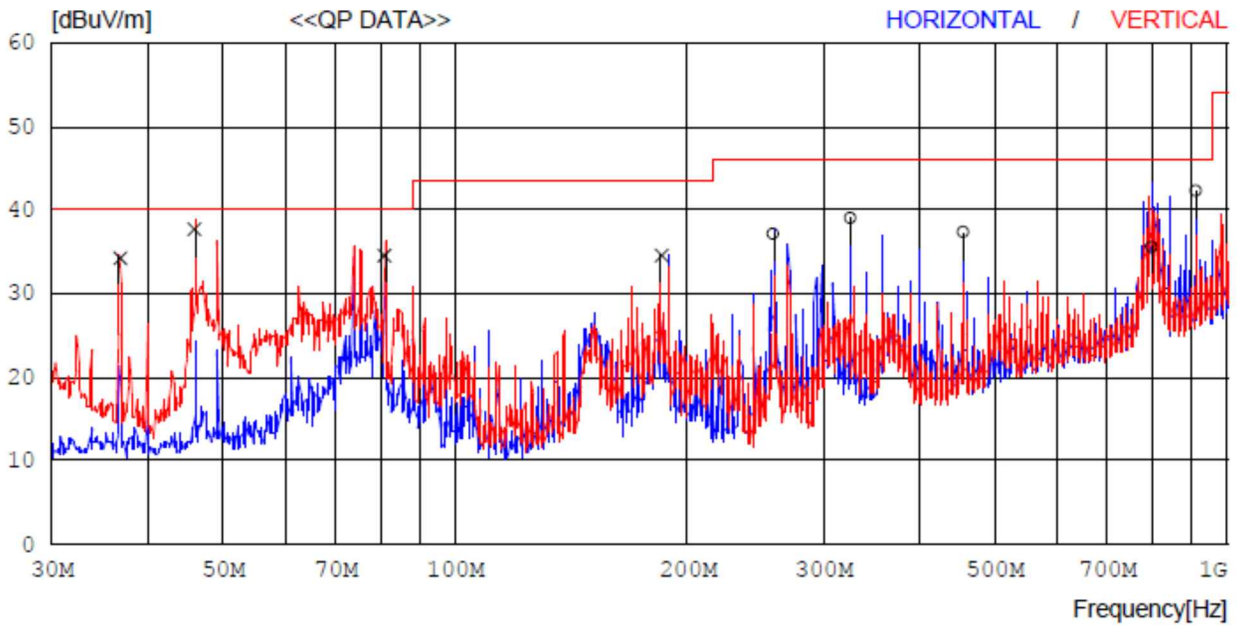
Note 6 : Not Detected means that peak data does not exceed the average limit

4.4.5.5 Measurement Plot_Radiated Spurious Emissions

Test mode : 9 kHz ~ 30 MHz (Worst case : 802.11g / Highest Frequency)

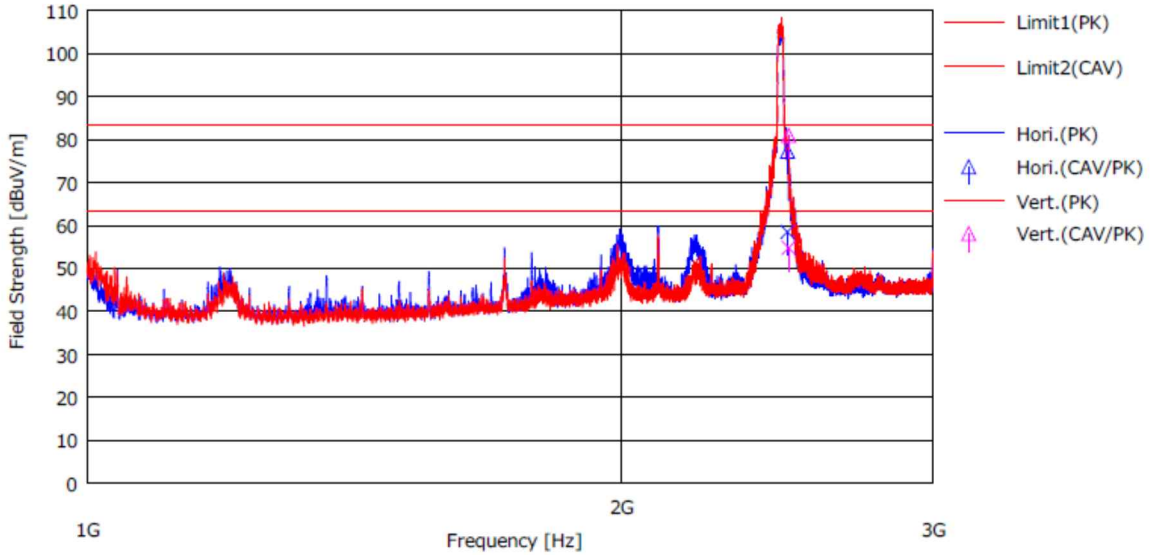


Test mode : 30 MHz ~ 1 GHz (Worst case : 802.11g / Highest Frequency)



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	258.065	46.7	12.0	-21.5	0.0	37.2	46.0	8.8	104	359
2	324.993	46.2	14.0	-21.1	0.0	39.1	46.0	6.9	104	115
3	454.970	41.4	17.0	-21.0	0.0	37.4	46.0	8.6	104	359
4	796.592	33.1	22.9	-20.4	0.0	35.6	46.0	10.4	104	100
5	910.107	37.5	23.9	-19.0	0.0	42.4	46.0	3.6	104	359
----- Vertical -----										
6	36.790	46.5	11.5	-23.7	0.0	34.3	40.0	5.7	100	0
7	46.005	49.0	12.0	-23.4	0.0	37.6	40.0	2.4	100	325
8	80.925	49.6	8.2	-23.1	0.0	34.7	40.0	5.3	100	0
9	184.226	46.0	10.6	-21.9	0.0	34.7	43.5	8.8	100	103

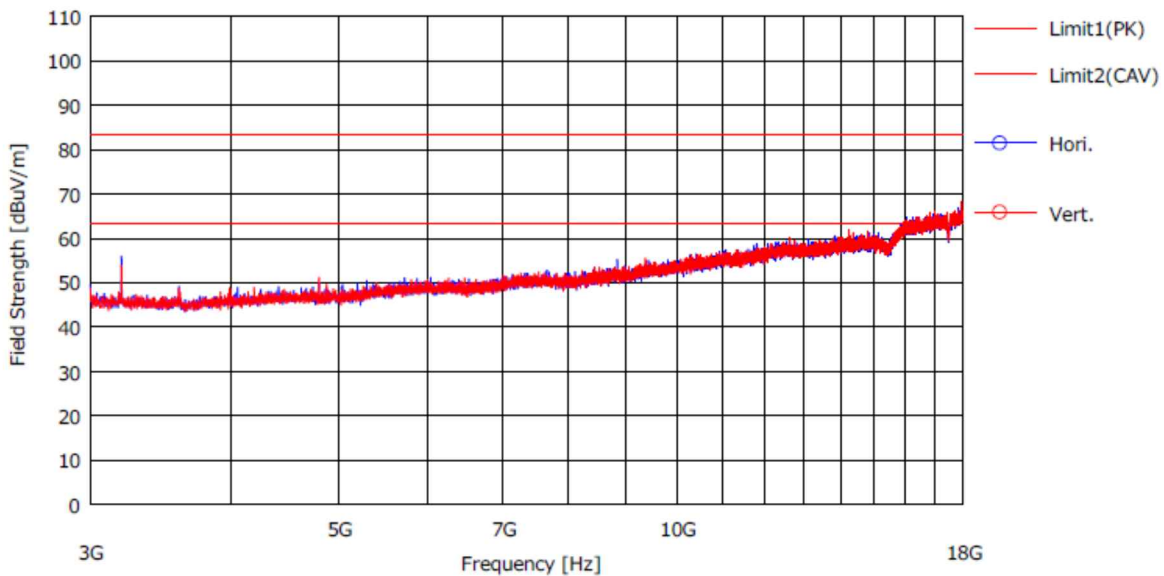
Test mode : 1 GHz ~ 3 GHz (Worst case : 802.11g / Highest Frequency)



No.	Freq. [MHz]	Reading				Gain [dB]	S.Fac [dB]	Result		Limit		Margin		Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		<CAV> [dBuV]	<PK> [dBuV]	Ant.Fac [dB/m]	Loss [dB]			<CAV> [dBuV/m]	<PK> [dBuV/m]	<PK> [dBuV/m]	<CAV> [dBuV/m]	<PK> [dB]	<CAV> [dB]					
1	2484.089	51.6	70.4	32.2	7.2	34.4	1.9	58.5	77.3	83.5	63.5	6.2	5.0	Hori.	150	359	8719K	
2	2487.750	47.9	74.1	32.2	7.2	34.4	1.9	54.8	81.0	83.5	63.5	2.5	8.7	Vert.	150	278	8719K	

Note 1 : Measured distance : 1 m
Note 2 : Limit : Peak : 83.5 dBuV/m
Average : 63.5 dBuV/m

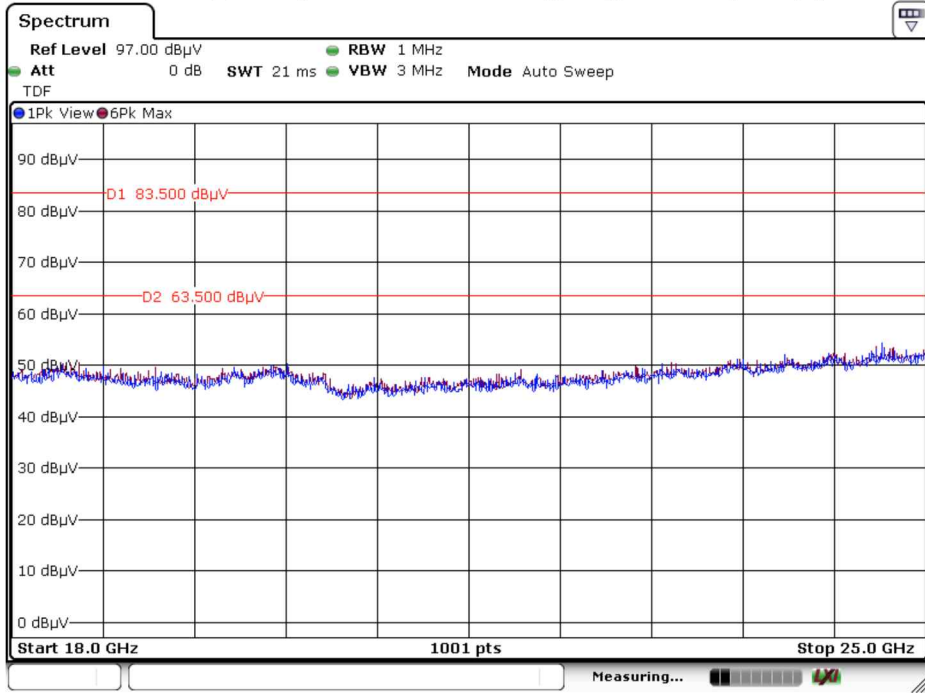
Test mode : 3 GHz ~ 18 GHz (Worst case : 802.11g / Highest Frequency)



No.	Freq. [MHz]	Reading [dBuV]	Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	S.Fac [dB]	Result [dBuV/m]	Limit		Margin		Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
								<PK> [dBuV/m]	<CAV> [dBuV/m]	<PK> [dB]	<CAV> [dB]					

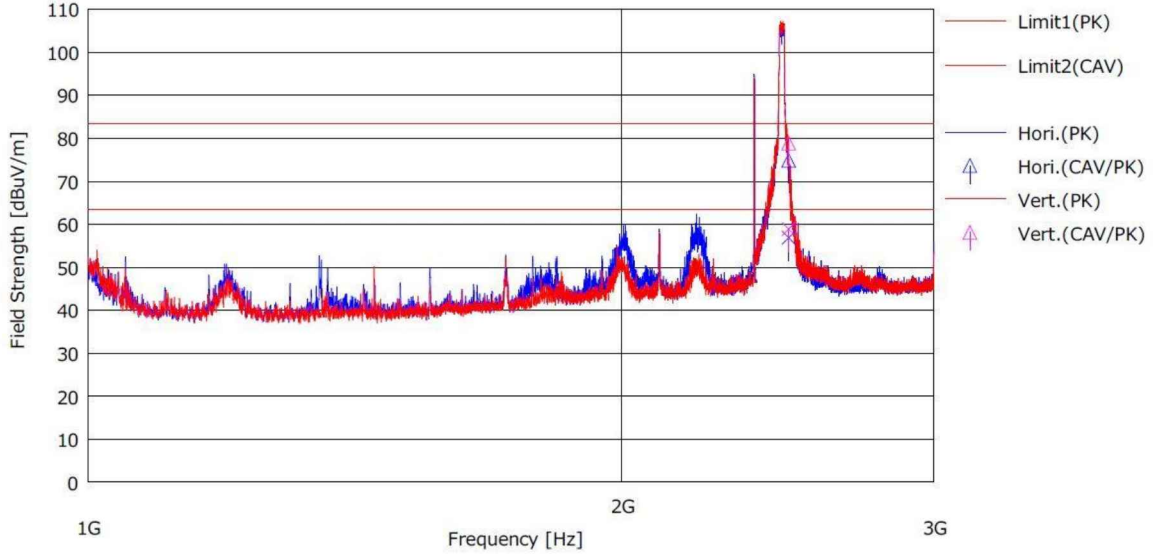
Note 1 : Measured distance : 1 m
Note 2 : Limit : Peak : 83.5 dBuV/m
Average : 63.5 dBuV/m

Test mode : 18 GHz ~ 25 GHz Peak (Worst case : 802.11g / Highest Frequency)



Note 1 : Measured distance : 1 m
Note 2 : Limit : Peak : 83.5 dBµV/m
Average : 63.5 dBµV/m

Test mode : WLAN2.4 + Bluetooth



No.	Freq. [MHz]	Reading		Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	S.Fac [dB]	Result		Limit		Margin		Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		<CAV>	<PK>					<CAV>	<PK>	<CAV>	<PK>	<CAV>						
		[dBuV]	[dBuV]					[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]					
1	2484.040	50.0	68.0	32.2	7.2	34.4	1.9	56.9	74.9	83.5	63.5	8.6	6.6	Hori.	150	2	8719K	
2	2484.040	52.0	72.0	32.2	7.2	34.4	1.9	58.9	78.9	83.5	63.5	4.6	4.6	Vert.	150	272	8719K	

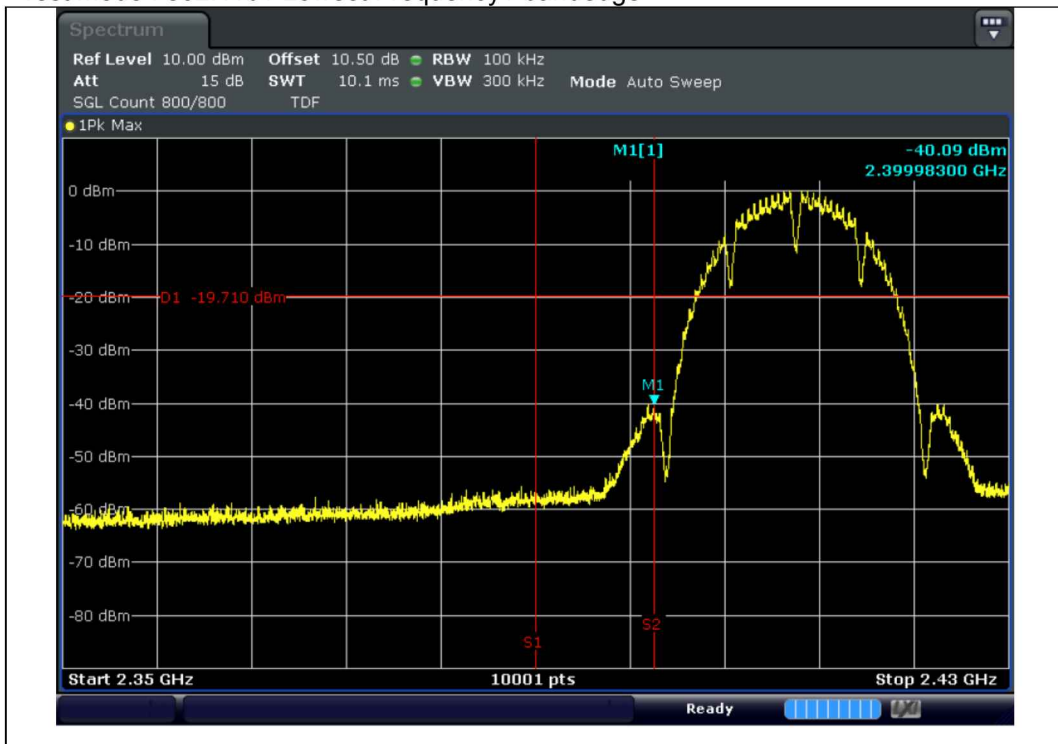
4.4.5.6 Measurement data_Conducted Spurious Emissions

Test mode : 802.11b / Lowest Frequency / reference

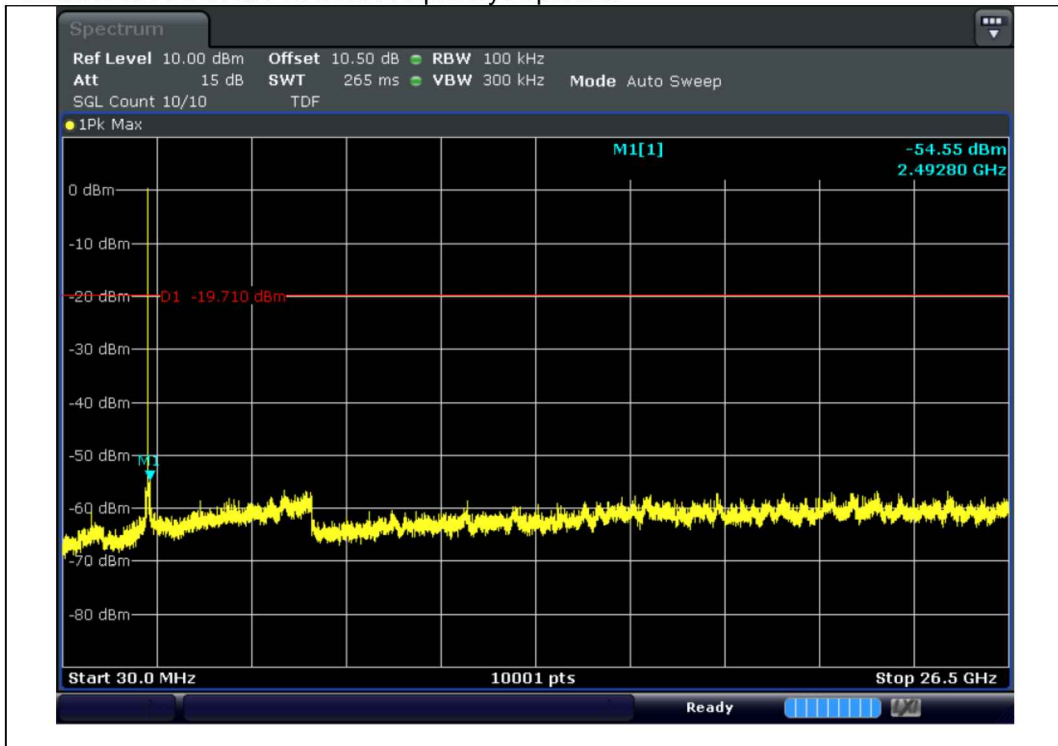


NOTE: Limit : 0.29 dBm - 20 dB = -19.71 dBm

Test mode : 802.11b / Lowest Frequency / bandedge



Test mode : 802.11b / Lowest Frequency / spurious

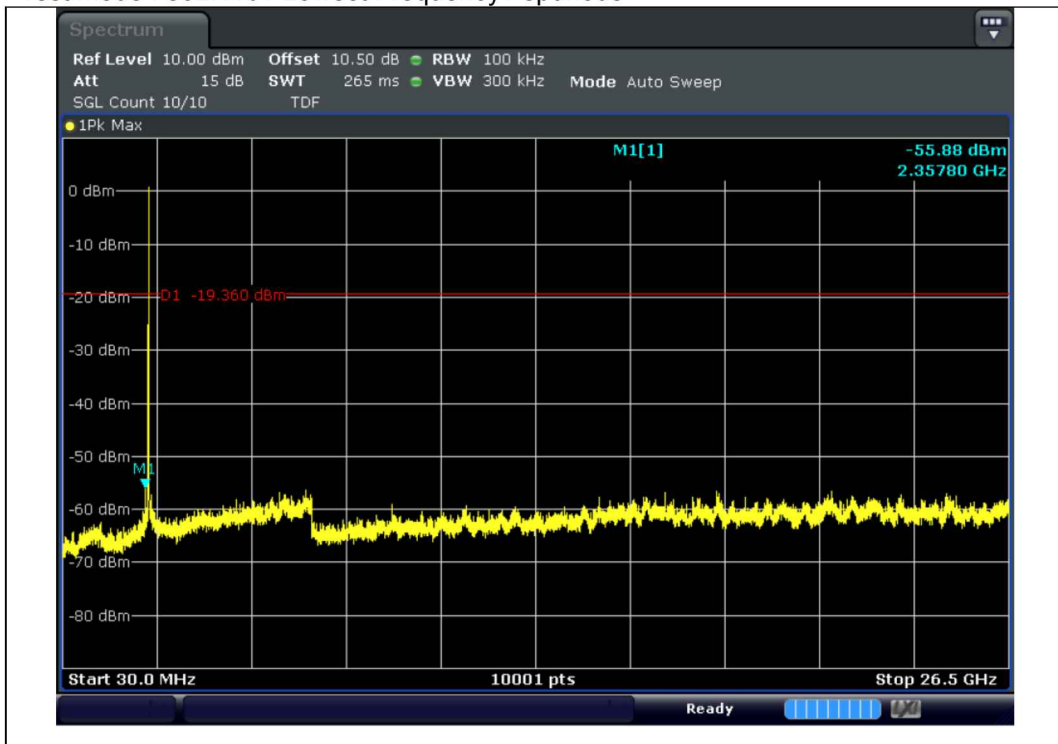


Test mode : 802.11b /Middle Frequency / reference



NOTE: Limit : 0.64 dBm - 20 dB = -19.36 dBm

Test mode : 802.11b / Lowest Frequency / spurious



Test mode : 802.11b / Highest Frequency / reference

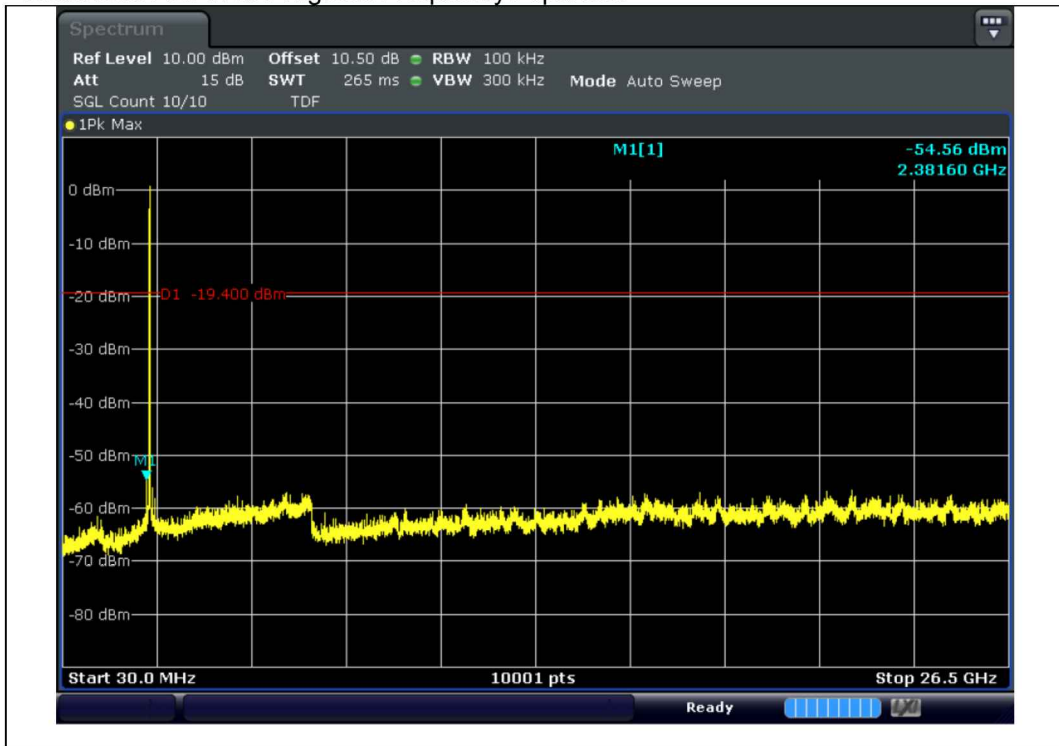


NOTE: Limit : 0.60 dBm - 20 dB = -19.40 dBm

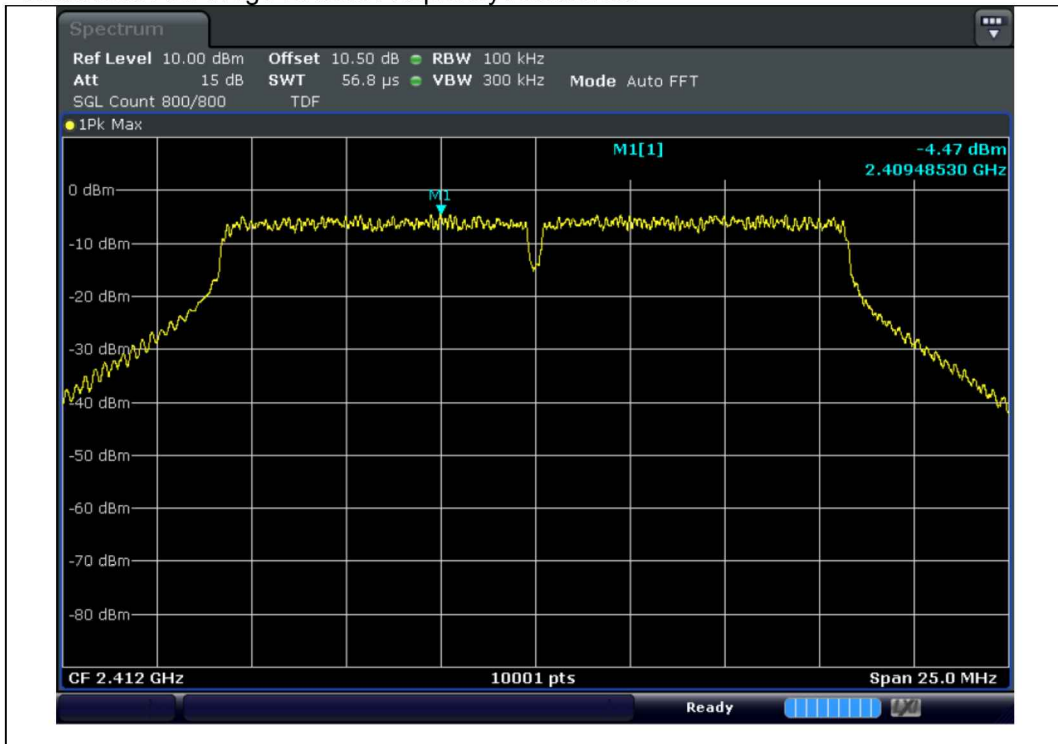
Test mode : 802.11b / Highest Frequency / bandedge



Test mode : 802.11b / Highest Frequency / spurious

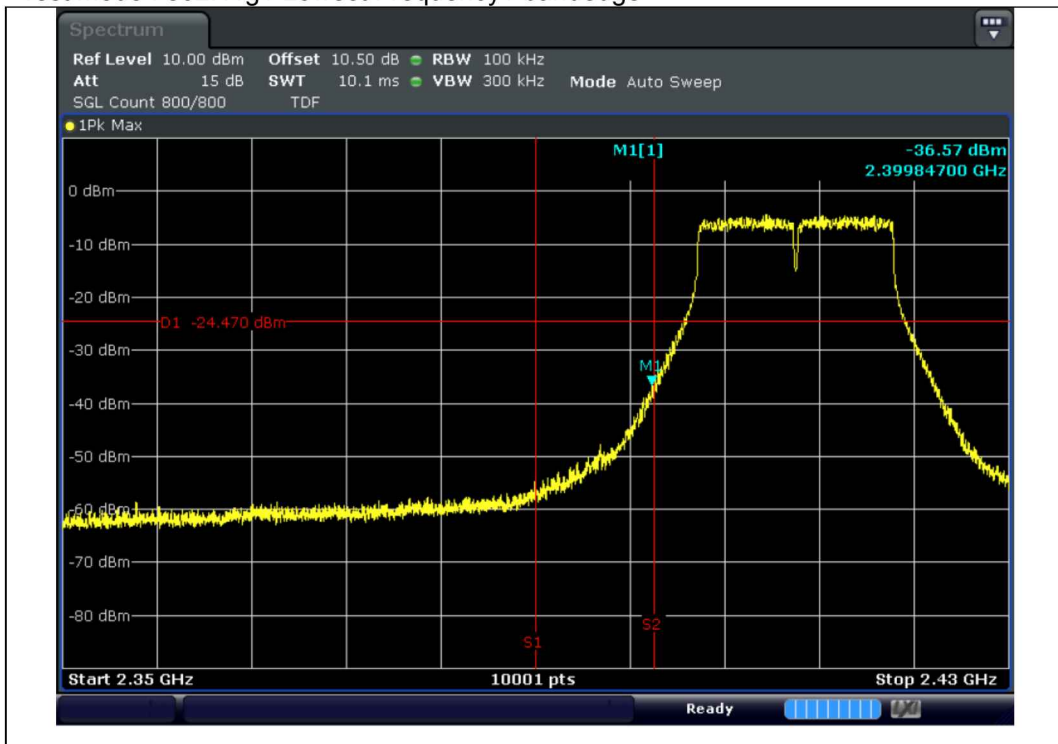


Test mode : 802.11g / Lowest Frequency / reference

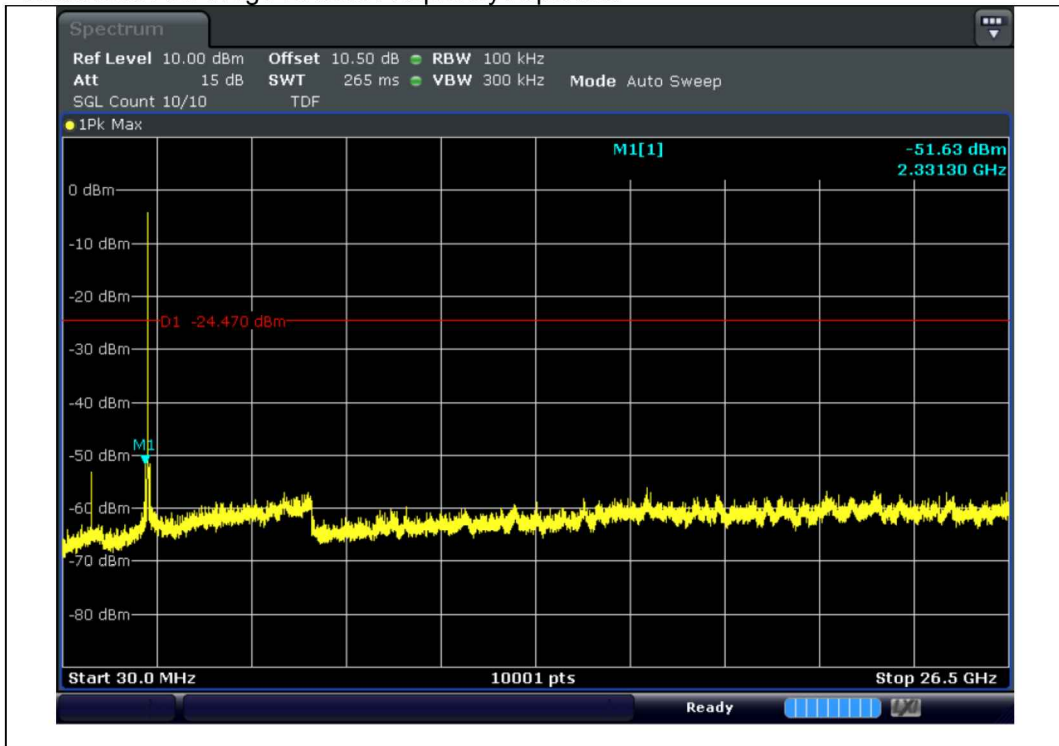


NOTE: Limit : -4.47 dBm - 20 dB = -24.47 dBm

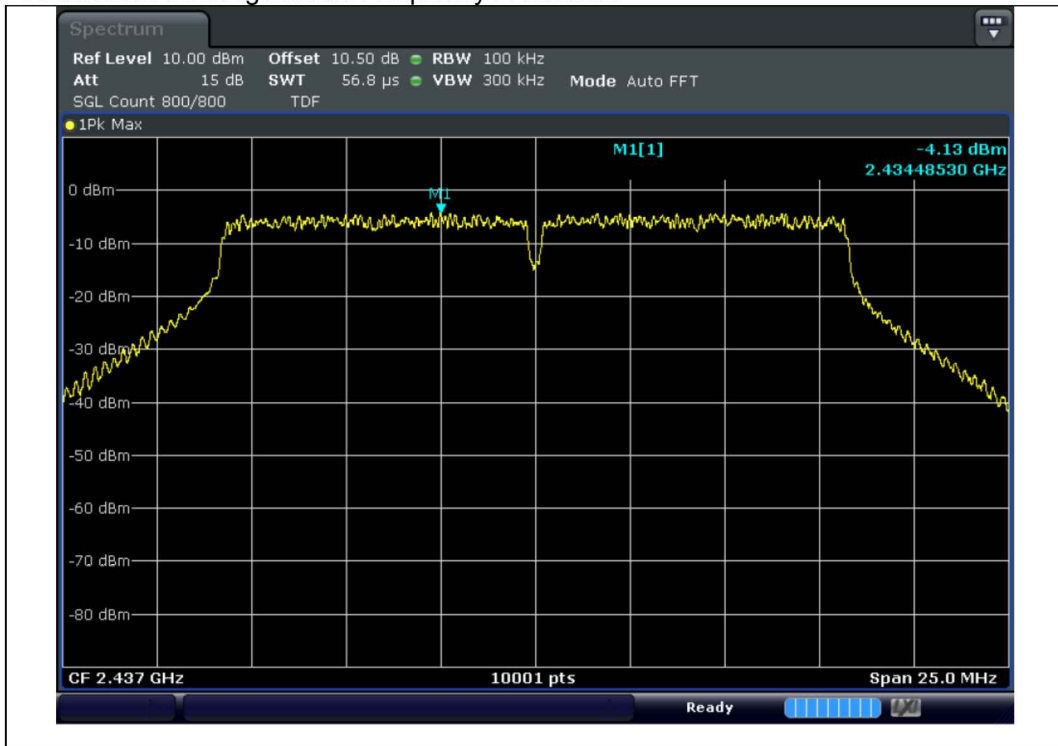
Test mode : 802.11g / Lowest Frequency / bandedge



Test mode : 802.11g / Lowest Frequency / spurious

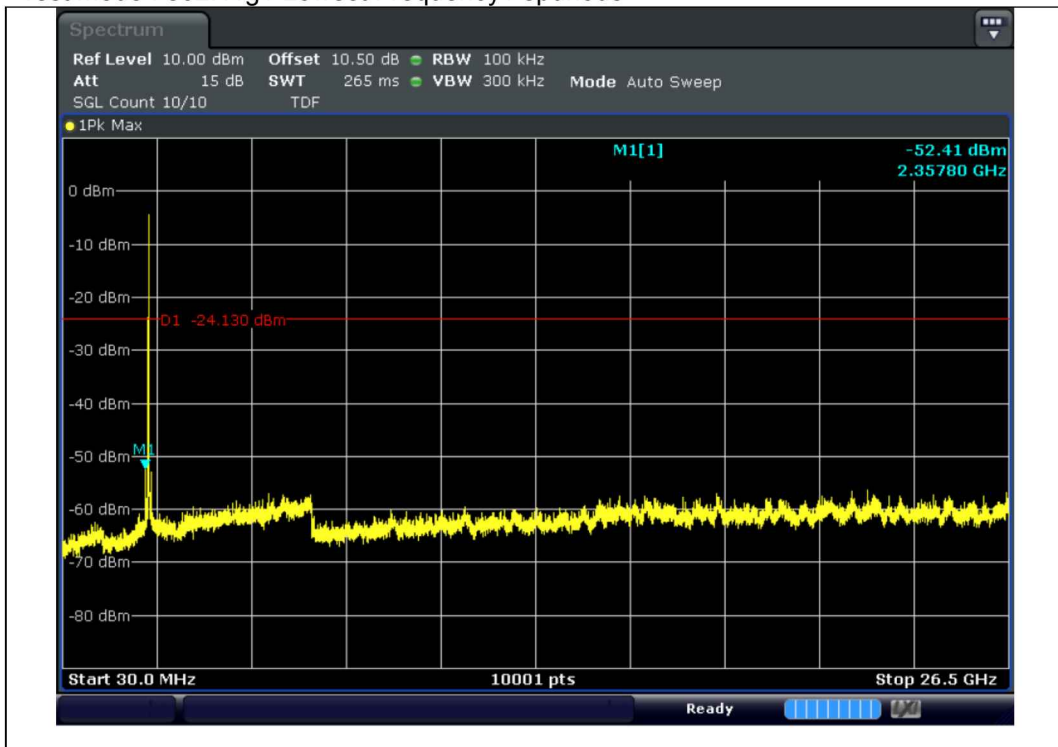


Test mode : 802.11g /Middle Frequency / reference

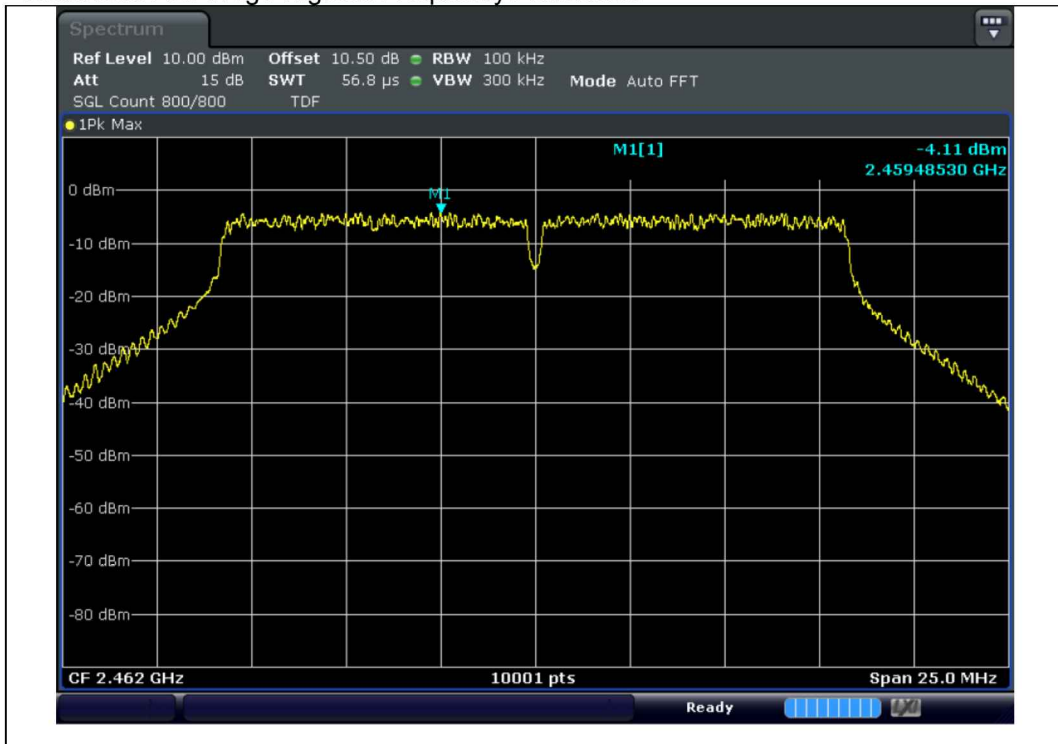


NOTE: Limit : -4.13 dBm - 20 dB = -24.13 dBm

Test mode : 802.11g / Lowest Frequency / spurious

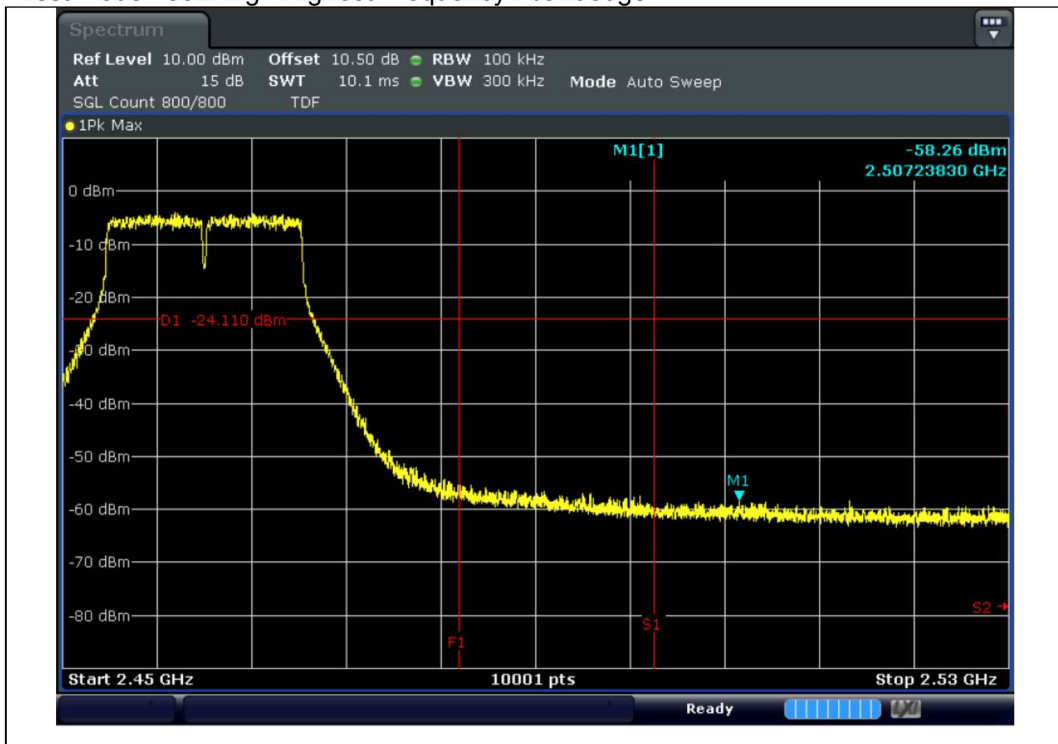


Test mode : 802.11g / Highest Frequency / reference

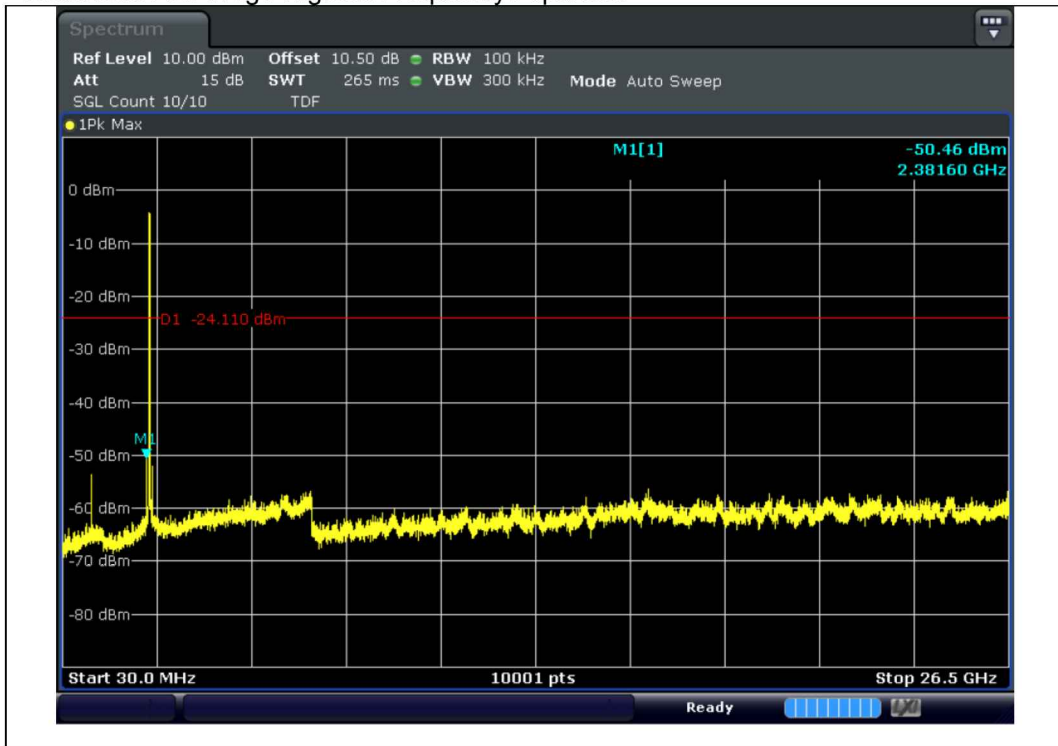


NOTE: Limit : -4.11 dBm - 20 dB = -24.11 dBm

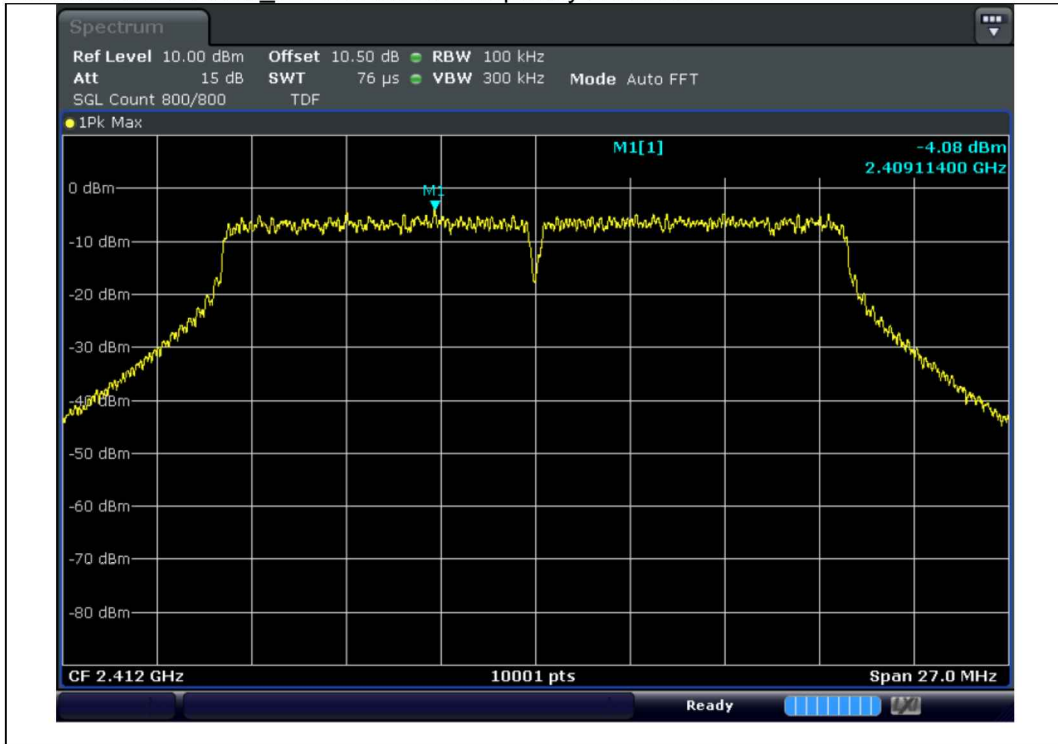
Test mode : 802.11g / Highest Frequency / bandedge



Test mode : 802.11g / Highest Frequency / spurious

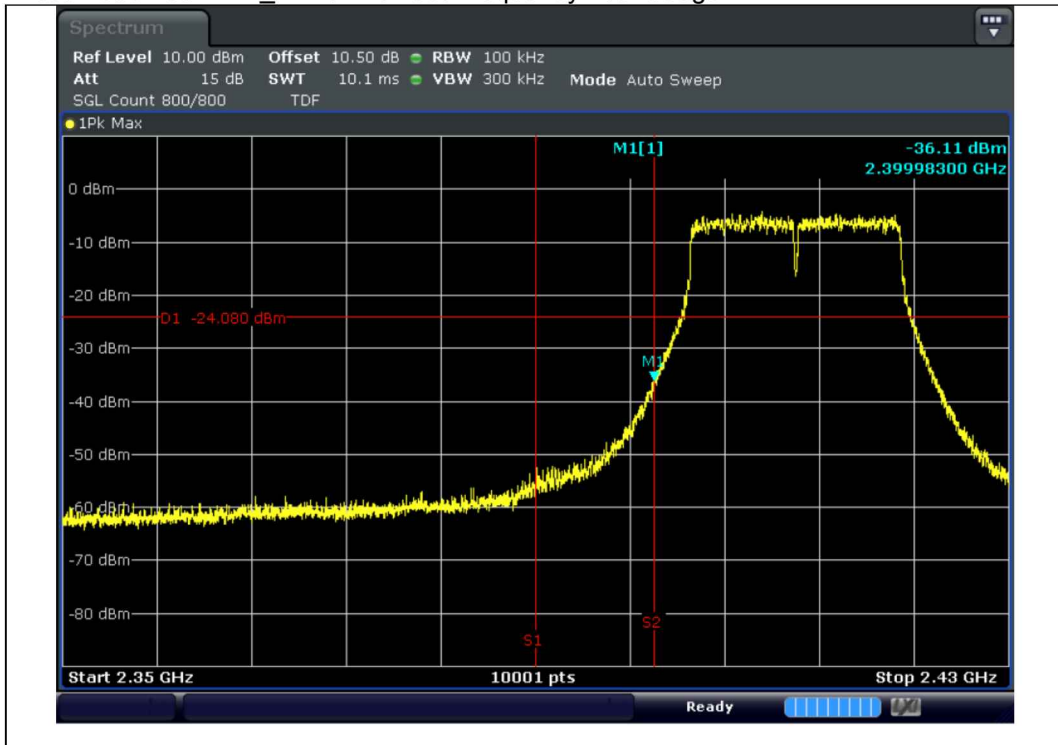


Test mode : 802.11n_HT20 / Lowest Frequency / reference



NOTE: Limit : -4.08 dBm - 20 dB = -24.08 dBm

Test mode : 802.11n_HT20 / Lowest Frequency / bandedge



Test mode : 802.11n_HT20 / Lowest Frequency / spurious

