

Spurious emissions (radiated) 9 kHz – 5 GHz

1 GHz – 5 GHz

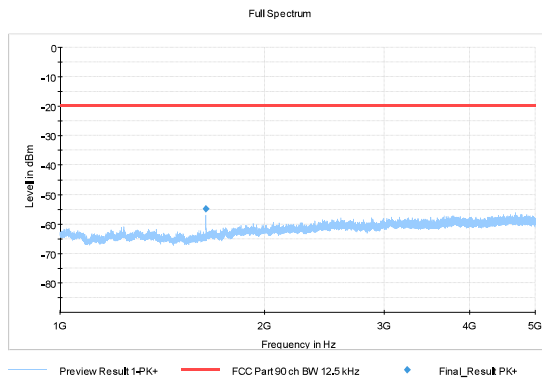


Figure 188: TX 410.0 MHz, 12.5 kHz, 4FSK

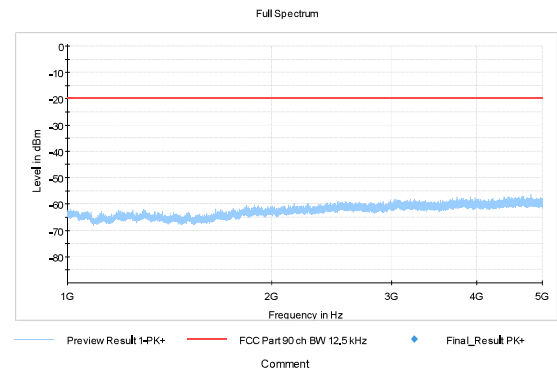


Figure 189: RX 410.0 MHz, 12.5 kHz, 4FSK

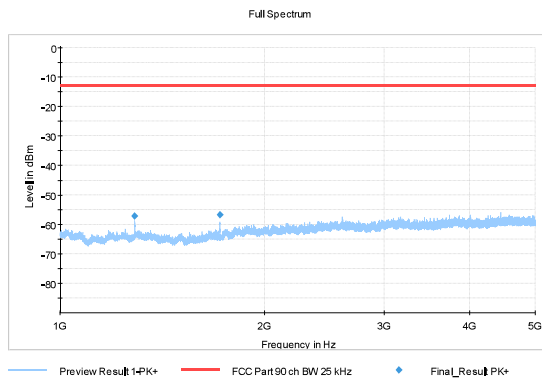


Figure 190: TX 429.5 MHz, 25 kHz, 4FSK

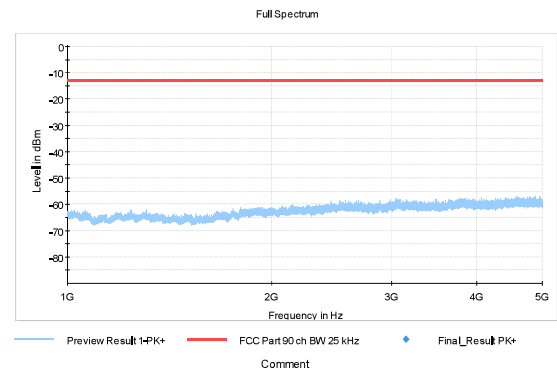


Figure 191: RX 429.5 MHz, 25 kHz, 4FSK

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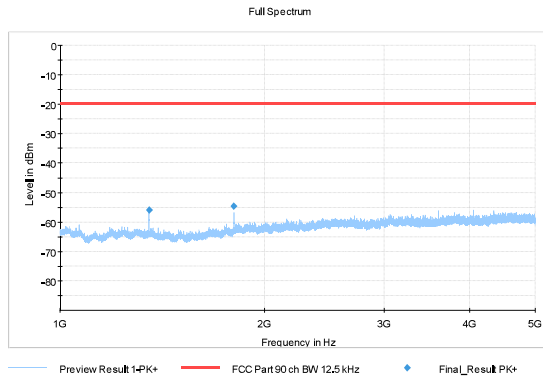


Figure 192: TX 450.5 MHz, 12.5 kHz, GMSK

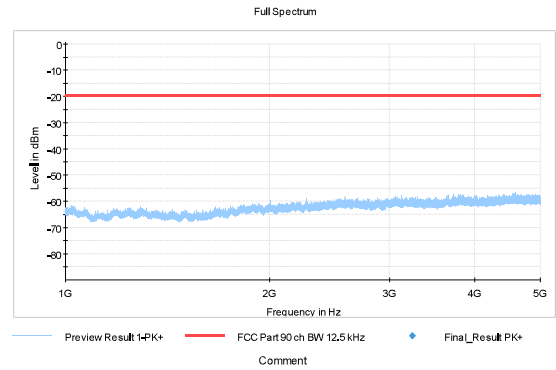


Figure 193: RX 450.5 MHz, 12.5 kHz, GMSK

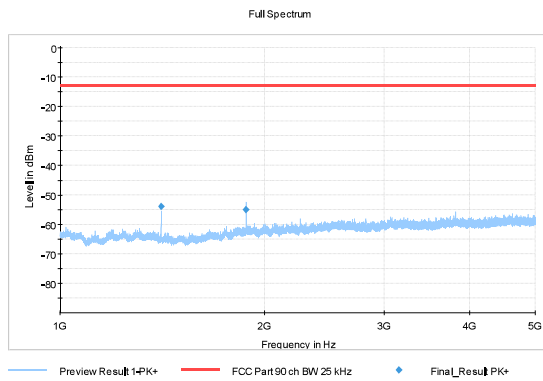


Figure 194: TX 469.5 MHz, 25 kHz, GMSK

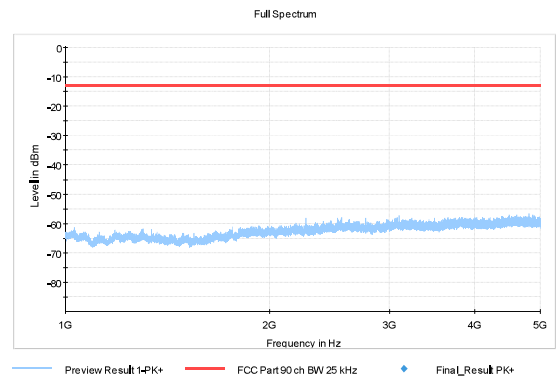


Figure 195: RX 469.5 MHz, 25 kHz, GMSK

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Test results, GMSK modulation (13, 16 November 2020)
Table 18: Spurious emissions (radiated) QuasiPeak results

Frequency (MHz)	QuasiPeak (dBm)	Limit (dBm)	Margin (dB)	Settings
0.021450	-56.43	-20.00	36.43	TX LOW 12.5 kHz 8000 bps
76.819000	-84.79	-20.00	64.79	TX MID2 12.5 kHz 9600 bps
84.205000	-88.85	-20.00	68.85	TX MID2 12.5 kHz 9600 bps
93.705500	-92.52	-20.00	72.52	TX MID2 12.5 kHz 9600 bps
409.997500	-42.91	*)	-	TX LOW 25 kHz 19200 bps
429.494500	-37.81	*)	-	TX MID1 12.5 kHz 8000 bps
450.495000	-43.55	*)	-	TX MID2 12.5 kHz 9600 bps
469.507000	-40.07	*)	-	TX HIGH 25 kHz 4800 bps
938.987000	-63.42	-13.00	50.42	TX HIGH 25 kHz 4800 bps

*) Transmitter fundamental frequency

Table 19: Spurious emissions (radiated) QuasiPeak result details

Frequency (MHz)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Settings
0.021450	1000.0	0.200	0.0 *)	V	6.0	-79.8	TX LOW 12.5 kHz 8000 bps
76.819000	1000.0	120.000	100.0	V	18.0	-85.4	TX MID2 12.5 kHz 9600 bps
84.205000	1000.0	120.000	135.0	V	36.0	-87.4	TX MID2 12.5 kHz 9600 bps
93.705500	1000.0	120.000	201.0	V	21.0	-86.9	TX MID2 12.5 kHz 9600 bps
409.997500	1000.0	120.000	100.0	H	357.0	-77.4	TX LOW 25 kHz 19200 bps
429.494500	1000.0	120.000	122.0	V	18.0	-76.4	TX MID1 12.5 kHz 8000 bps
450.495000	1000.0	120.000	109.0	V	194.0	-76.0	TX MID2 12.5 kHz 9600 bps
469.507000	1000.0	120.000	187.0	H	4.0	-75.7	TX HIGH 25 kHz 4800 bps
938.987000	1000.0	120.000	148.0	H	43.0	-67.7	TX HIGH 25 kHz 4800 bps

*) Loop antenna position 0.0°

Correction factor (dB) in the final result tables contains the sum of the attenuations of the system. (Antenna + cables). QuasiPeak measured values include the correction factor.