

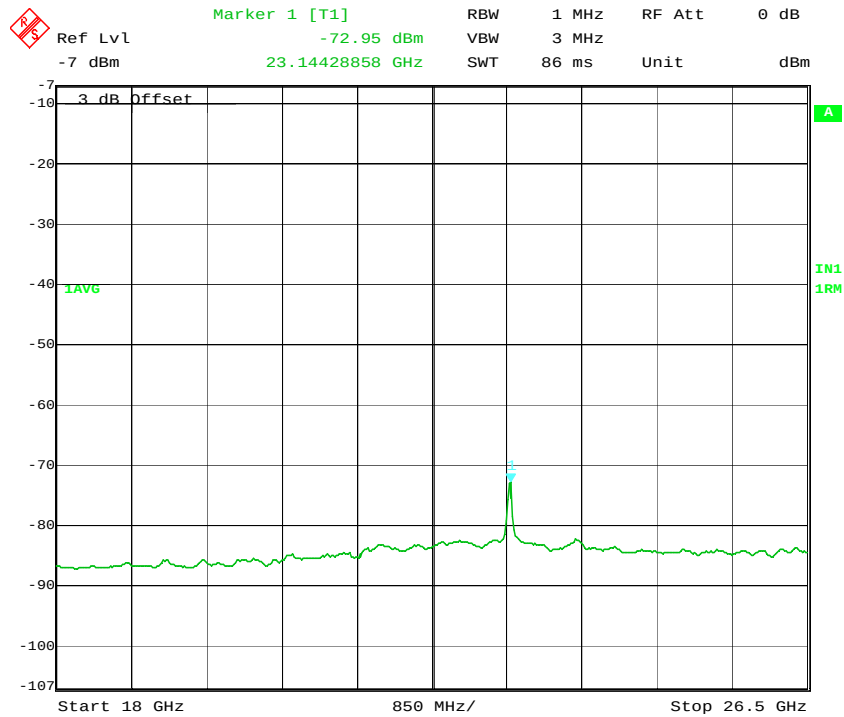


Figure 145: 40MHz, 6dBi, Mid Channel: Average Emission from 18 GHz to 26.5 GHz at Ch. 0

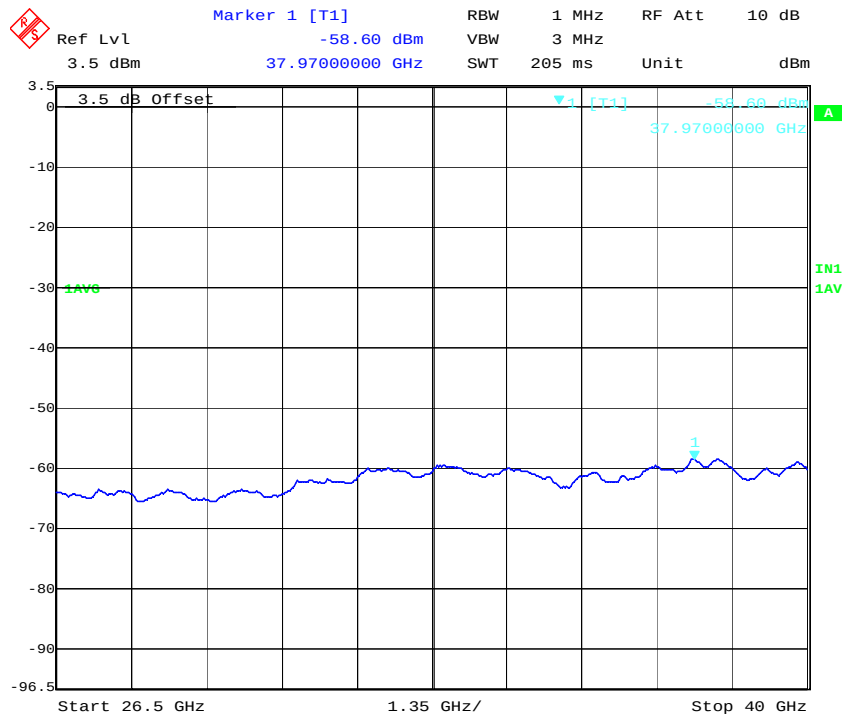


Figure 146: 40MHz, 6dBi, Mid Channel: Average Emission from 26.5 GHz to 40 GHz at Ch. 0

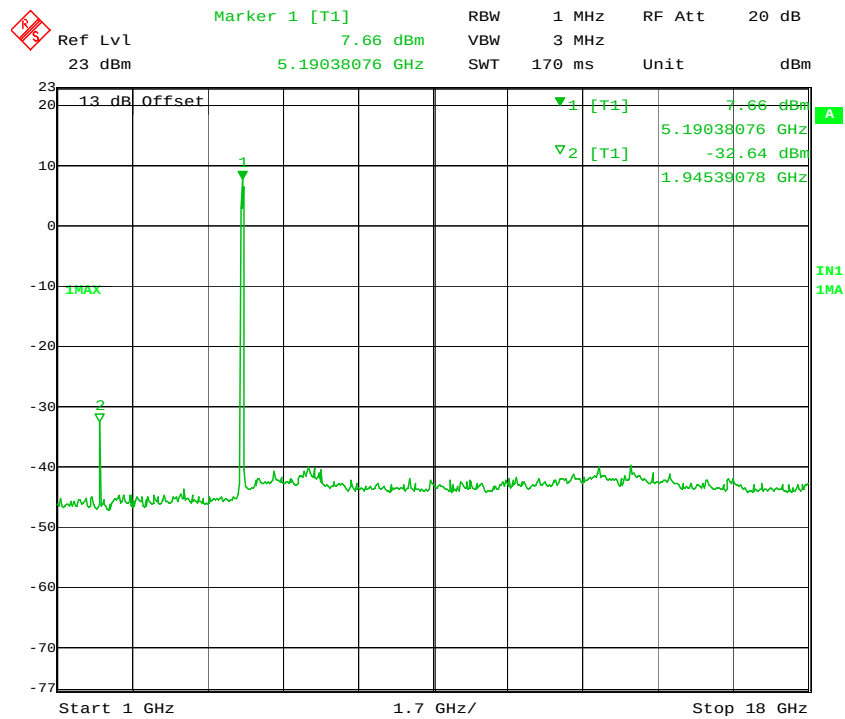


Figure 147: 40MHz, 6dBi, Mid Channel: Peak Emission from 1 GHz to 18 GHz at Ch. 0

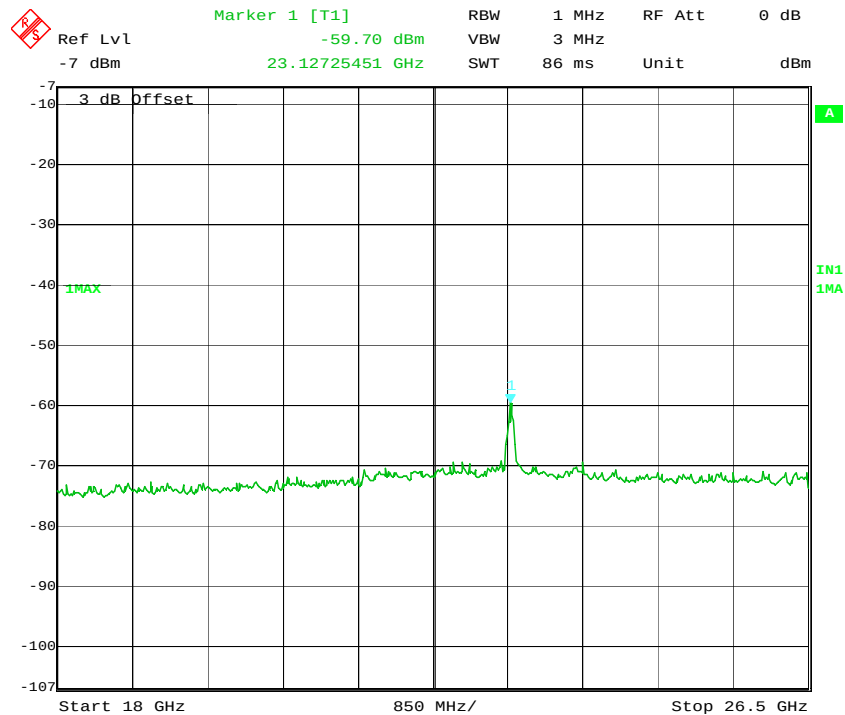


Figure 148: 40MHz, 6dBi, Mid Channel: Peak Emission from 18 GHz to 26.5 GHz at Ch. 0

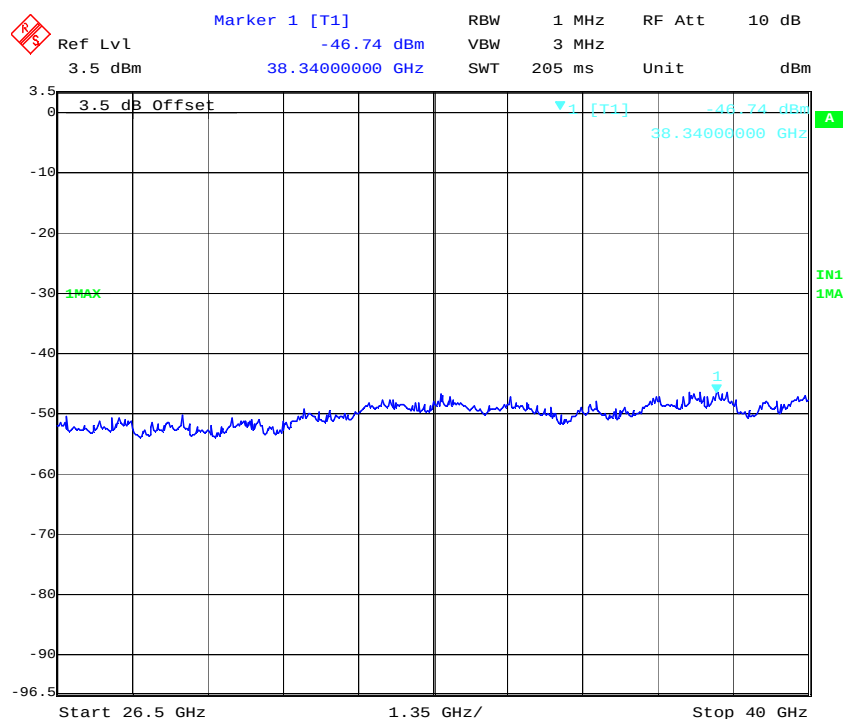


Figure 149: 40MHz, 6dBi, Mid Channel: Peak Emission from 26.5 GHz to 40 GHz at Ch. 0

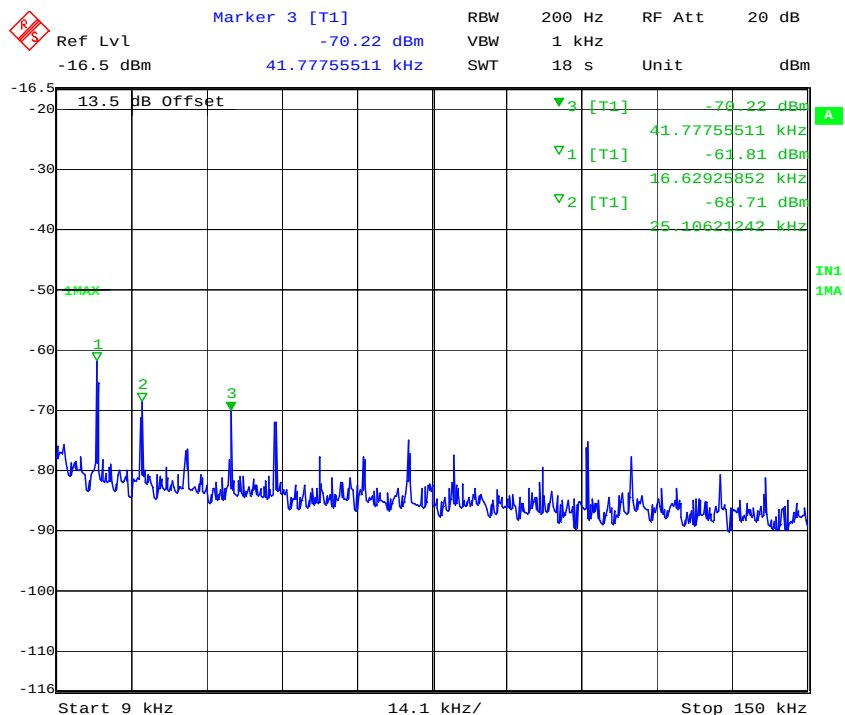


Figure 150: 40MHz, 6dBi, Mid Channel: Peak Emission from 9 kHz to 150 kHz at Ch. 1

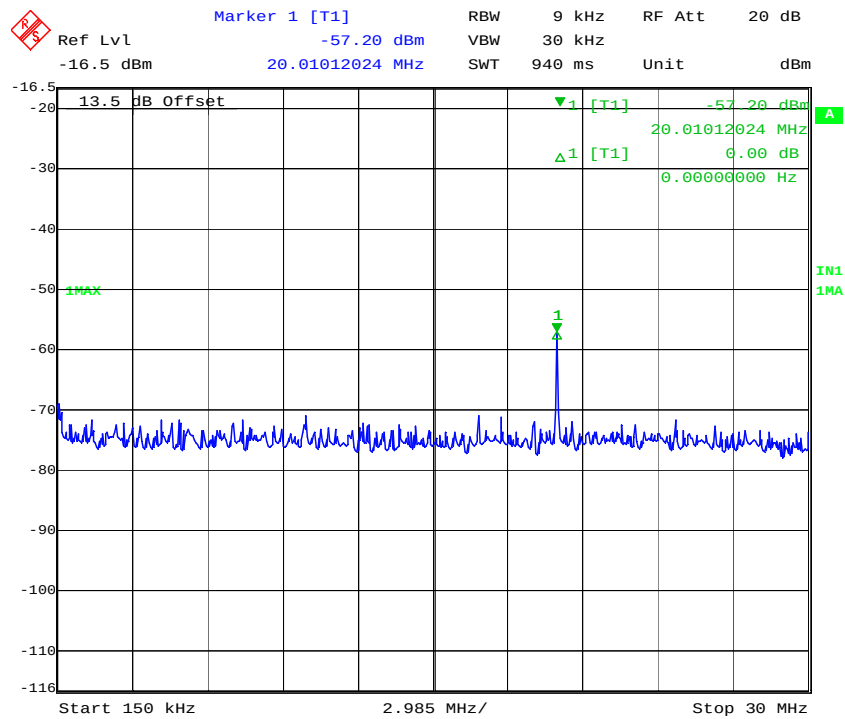


Figure 151: 40MHz, 6dBi, Mid Channel: Peak Emission from 150 kHz to 30 MHz at Ch. 1

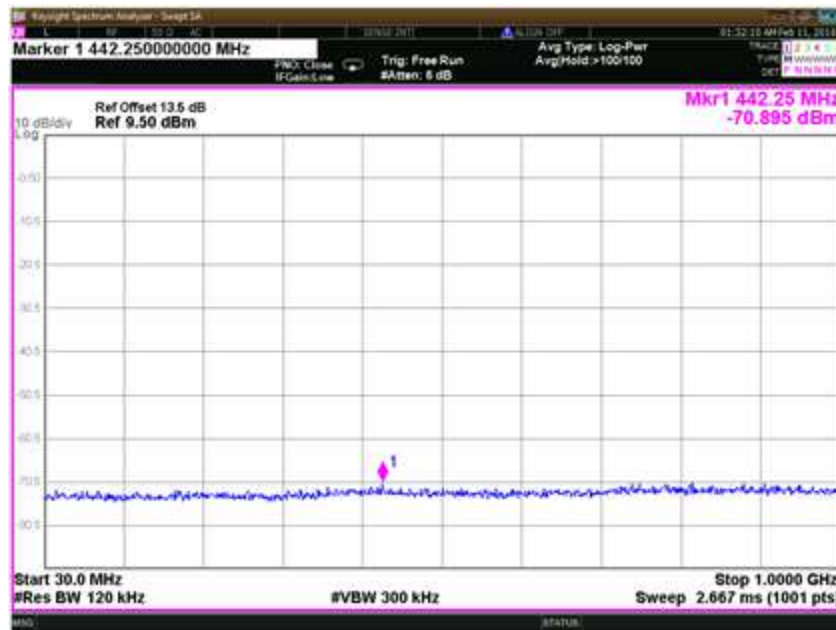


Figure 152: 40MHz, 6dBi, Mid Channel: Peak Emission from 30 MHz to 1 GHz at Ch. 1

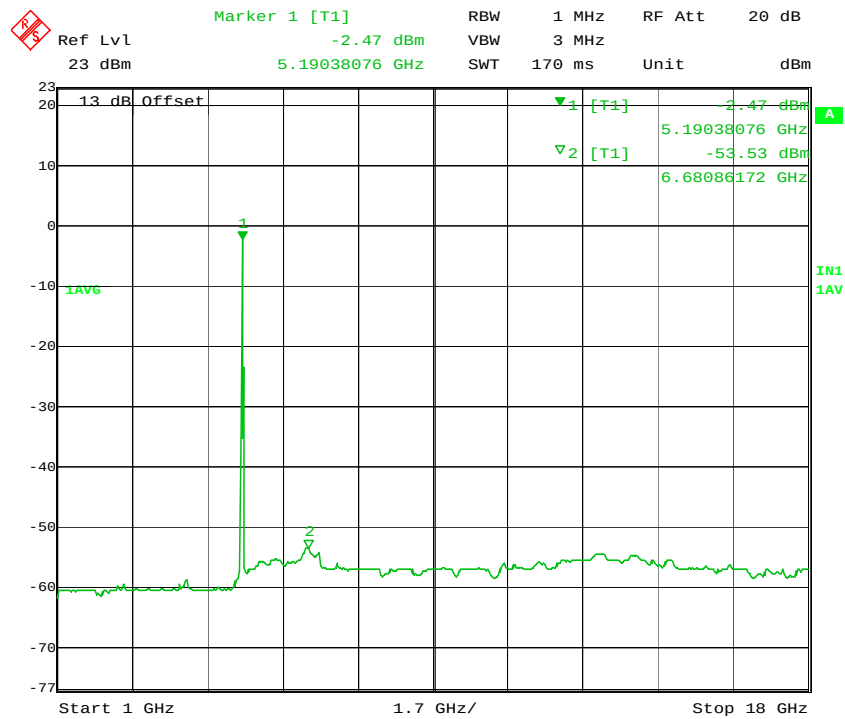


Figure 153: 40MHz, 6dBi, Mid Channel: Average Emission from 1 GHz to 18 GHz at Ch. 1

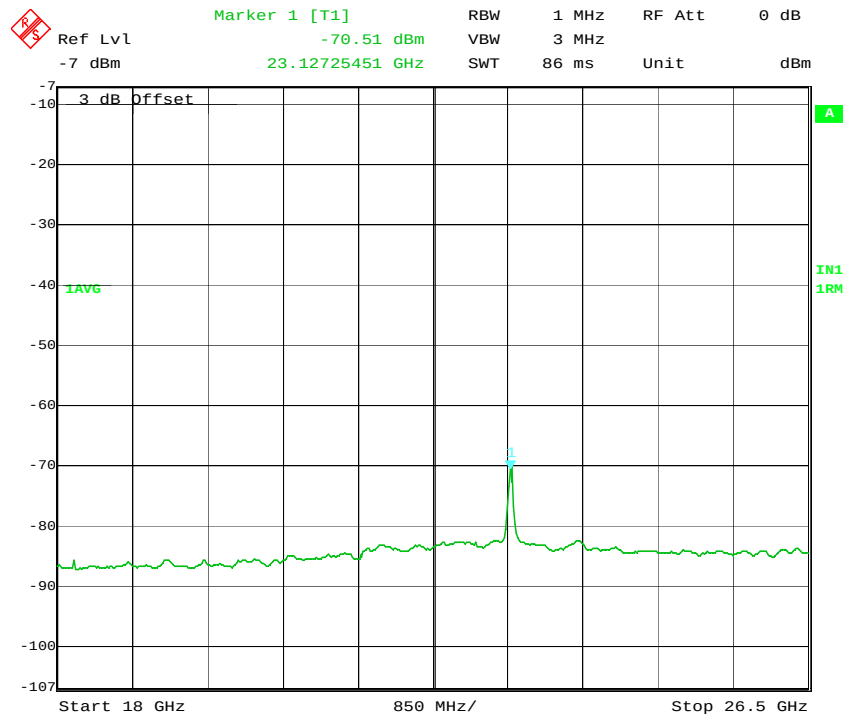


Figure 154: 40MHz, 6dBi, Mid Channel: Average Emission from 18 GHz to 26.5 GHz at Ch. 1

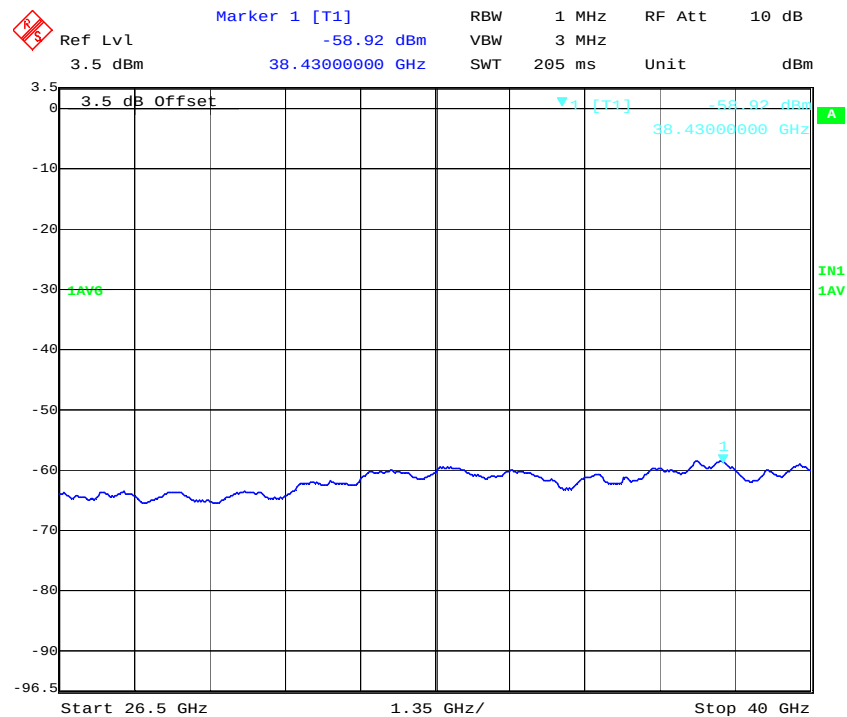


Figure 155: 40MHz, 6dBi, Mid Channel: Average Emission from 26.5 GHz to 40 GHz at Ch. 1

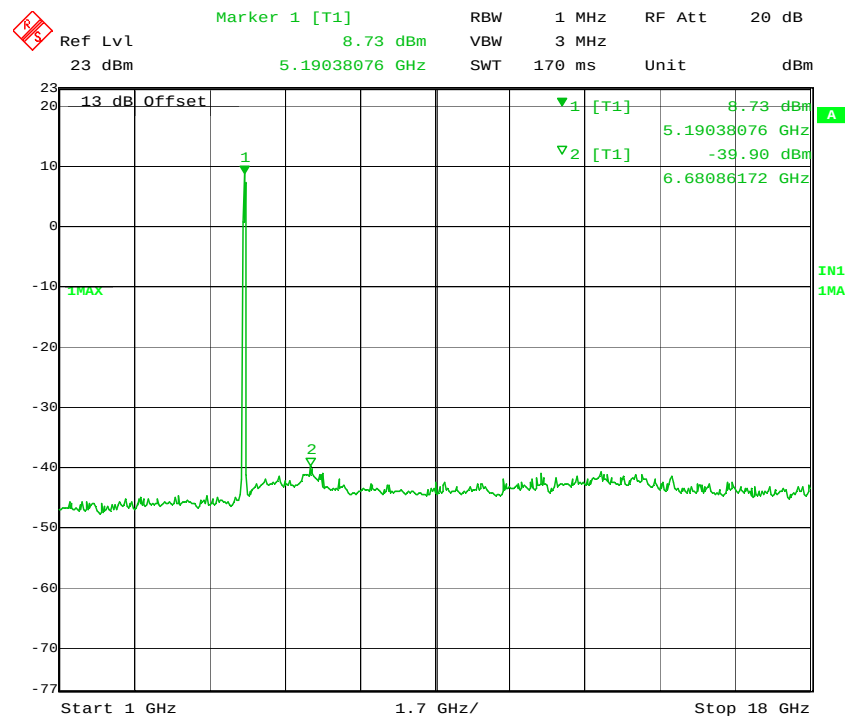


Figure 156: 40MHz, 6dBi, Mid Channel: Peak Emission from 1 GHz to 18 GHz at Ch. 1

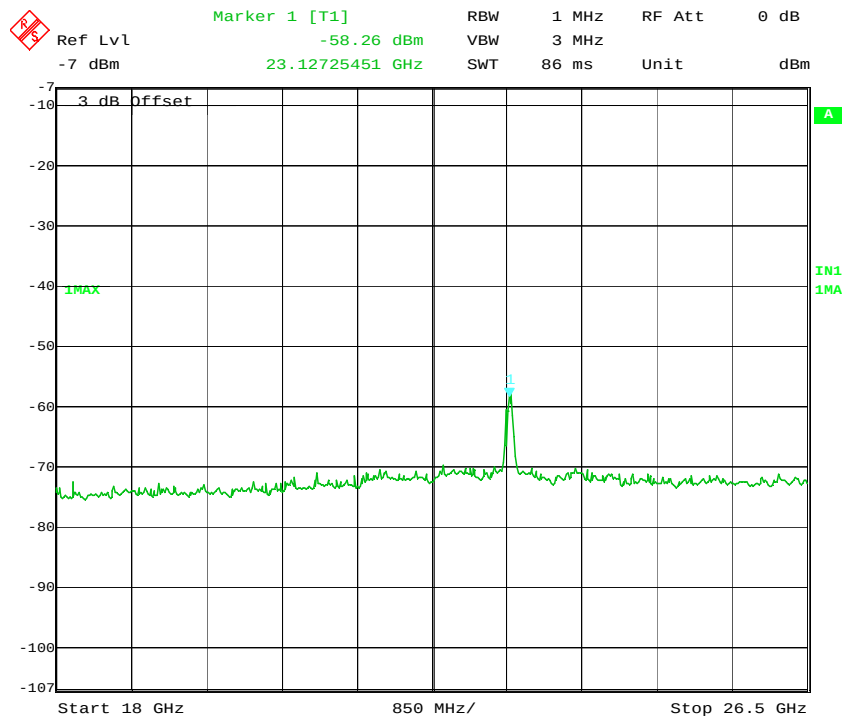


Figure 157: 40MHz, 6dBi, Mid Channel: Peak Emission from 18 GHz to 26.5 GHz at Ch. 1

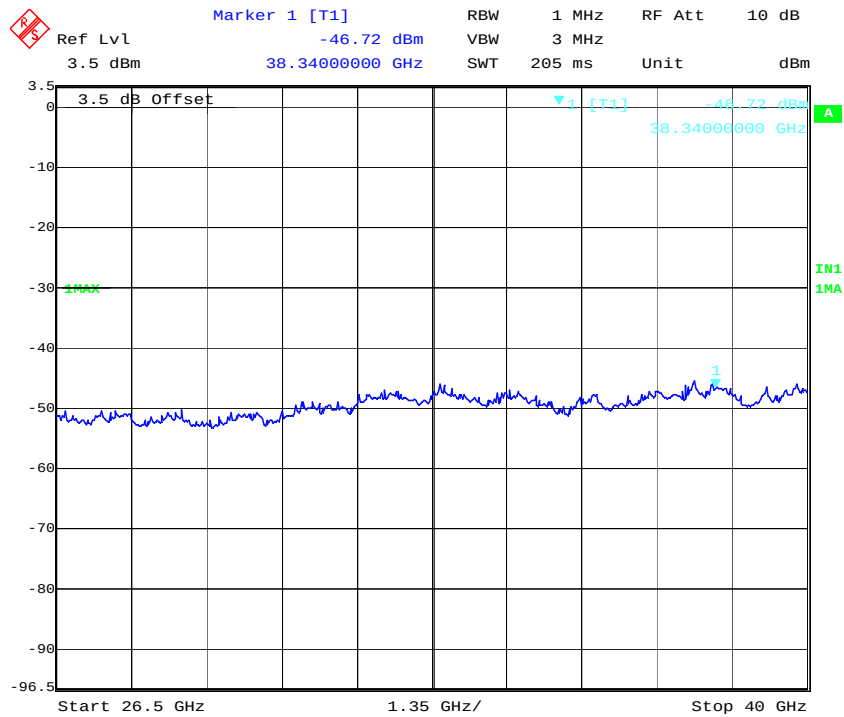


Figure 158: 40MHz, 6dBi, Mid Channel: Peak Emission from 26.5 GHz to 40 GHz at Ch. 1

5.3.5.5.6 40 MHz MODULATION BANDWIDTH, 6 dBi POWER, HIGH CHANNEL - 5220 MHz

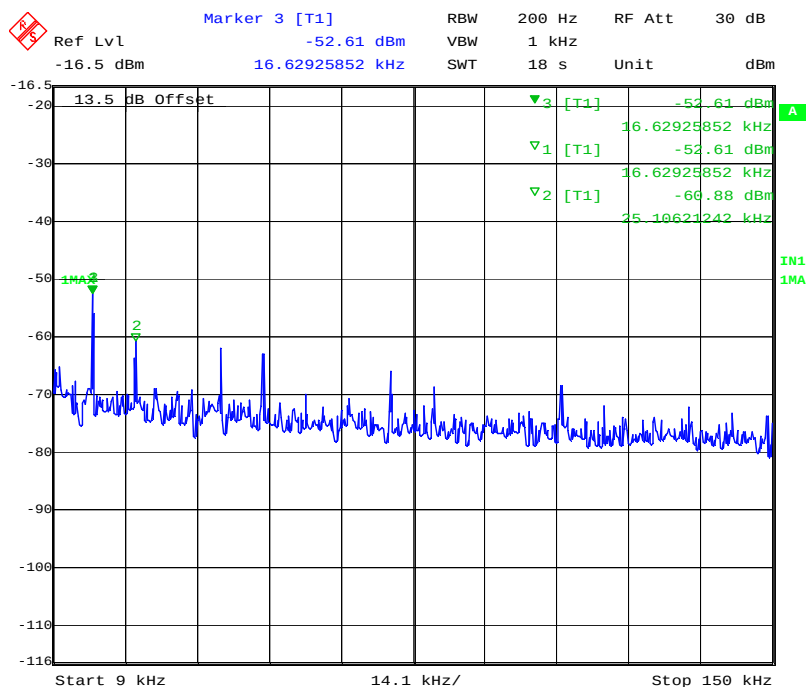


Figure 159: 40MHz, 6dBi, High Channel: Peak Emission from 9 kHz to 150 kHz at Ch. 0

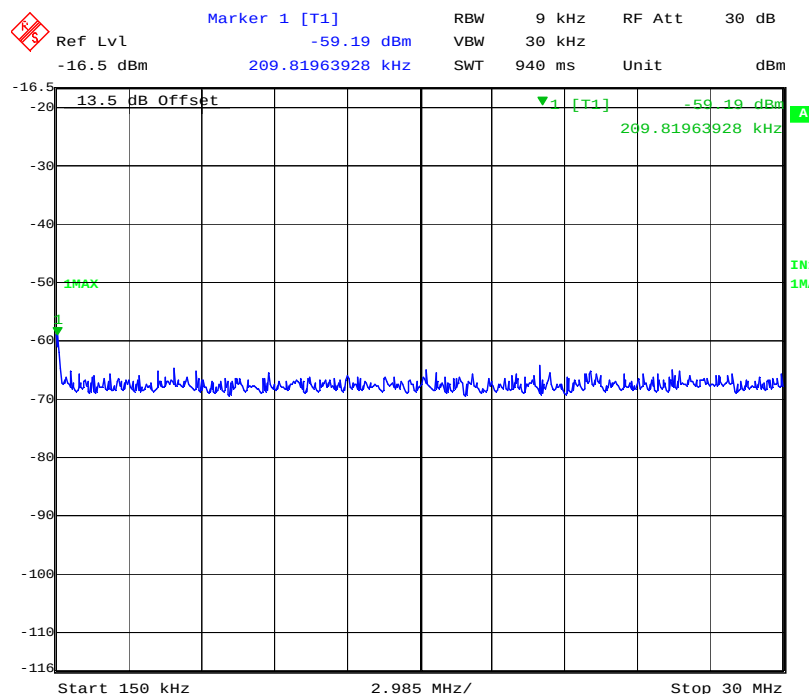


Figure 160: 40MHz, 6dBi, High Channel: Peak Emission from 150 kHz to 30 MHz at Ch. 0

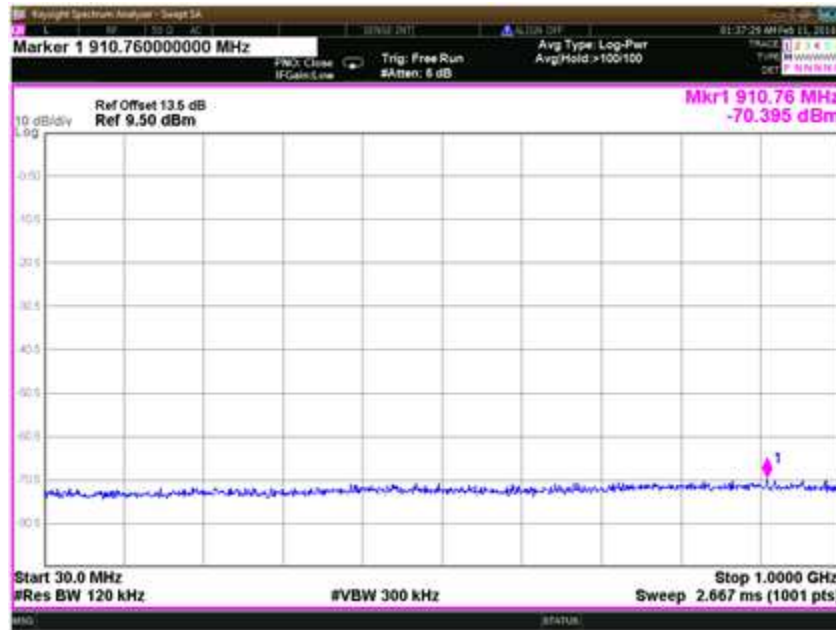


Figure 161: 40MHz, 6dBi, High Channel: Peak Emission from 30 MHz to 1 GHz at Ch. 0

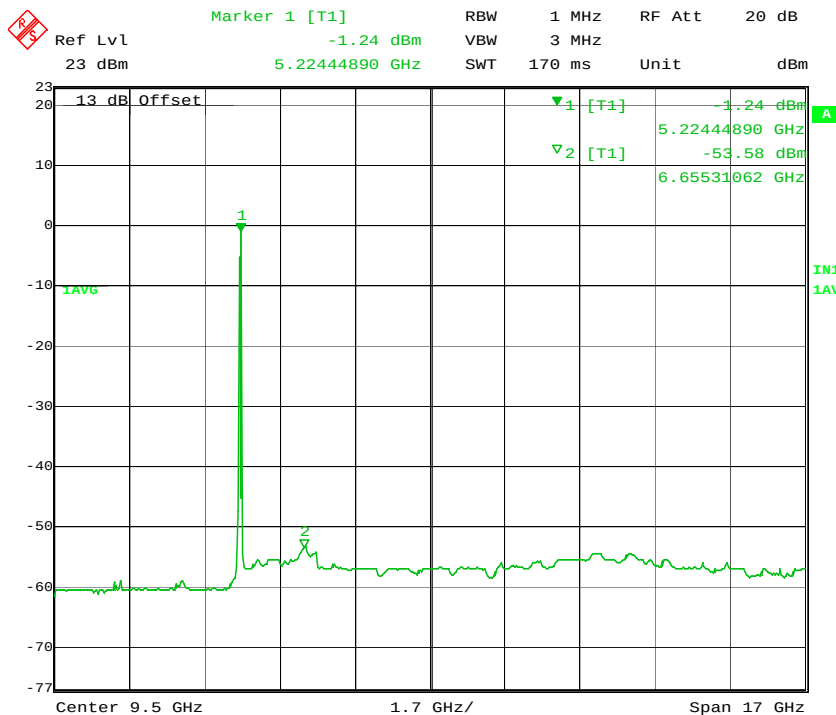


Figure 162: 40MHz, 6dBi, High Channel: Average Emission from 1 GHz to 18 GHz at Ch. 0

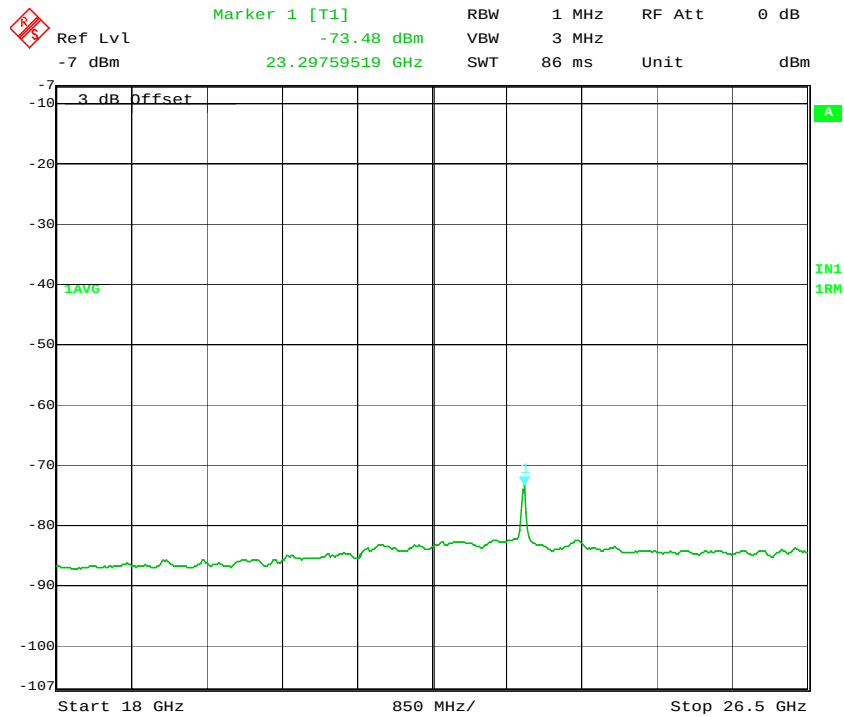


Figure 163: 40MHz, 6dBi, High Channel: Average Emission from 18 GHz to 26.5 GHz at Ch. 0

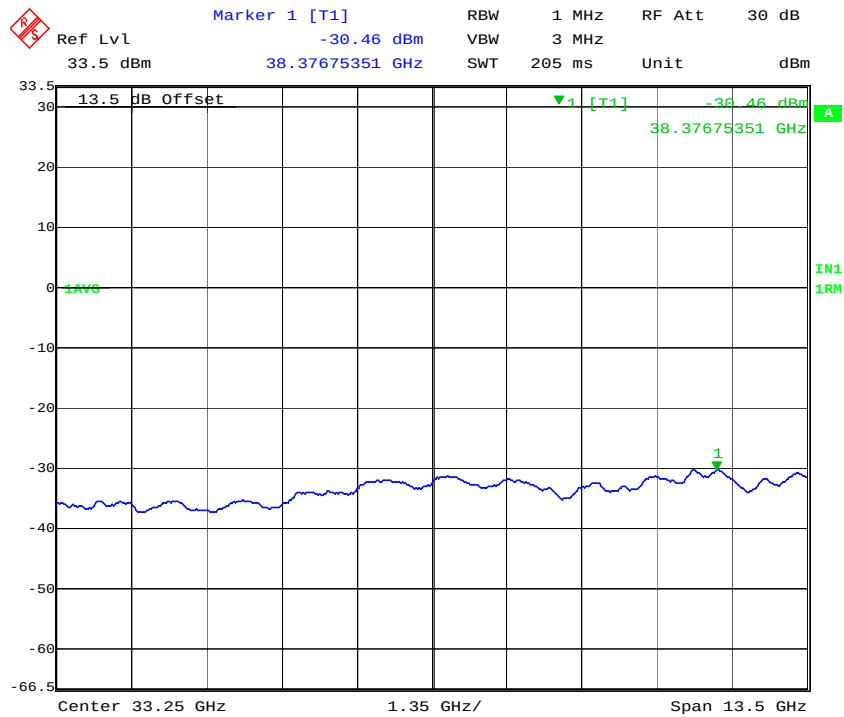


Figure 164: 40MHz, 6dBi, High Channel: Average Emission from 26.5 GHz to 40 GHz at Ch. 0

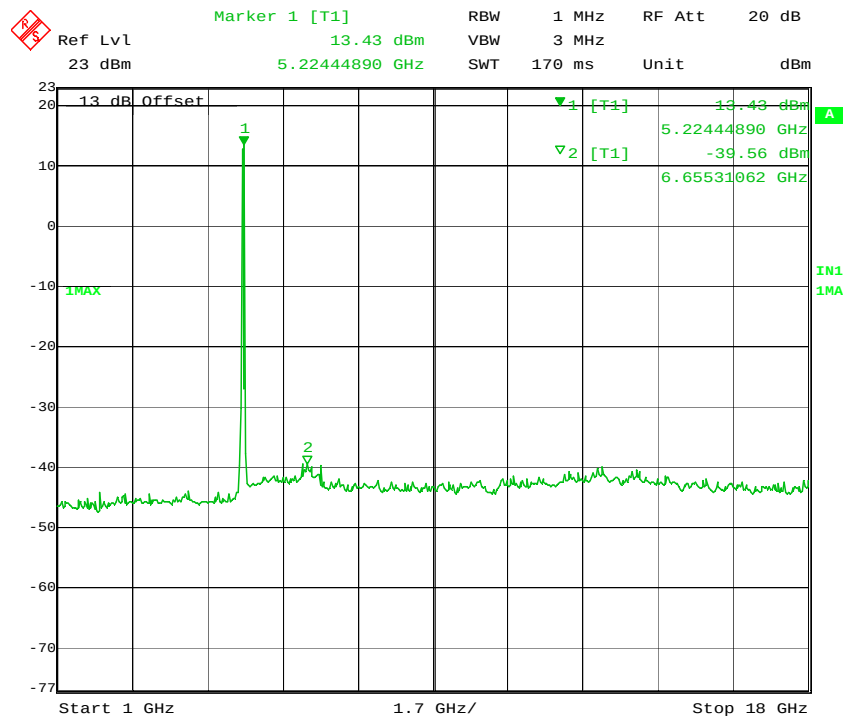


Figure 165: 40MHz, 6dBi, High Channel: Peak Emission from 1 GHz to 18 GHz at Ch. 0

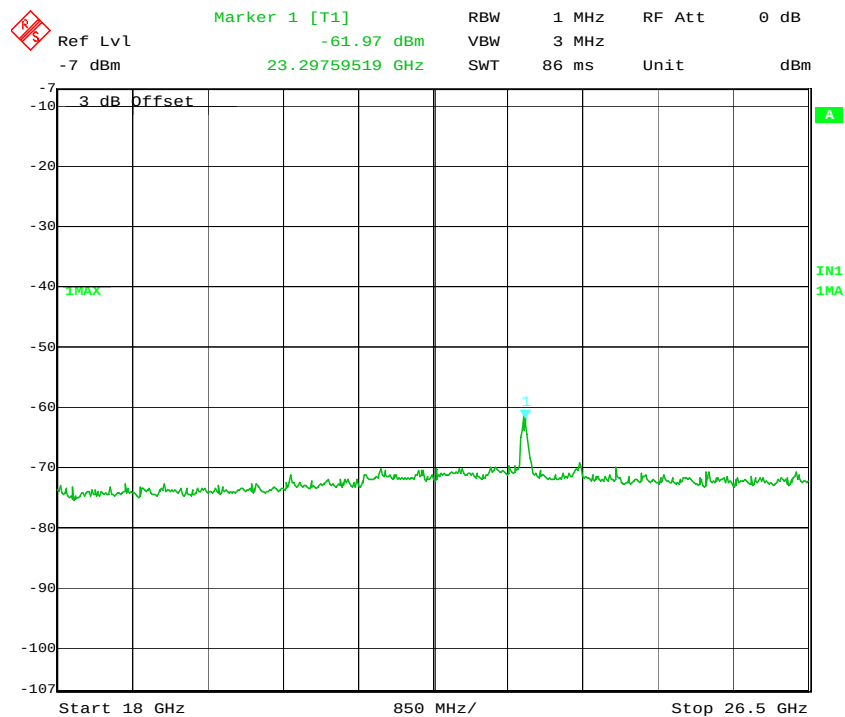


Figure 166: 40MHz, 6dBi, High Channel: Peak Emission from 18 GHz to 26.5 GHz at Ch. 0

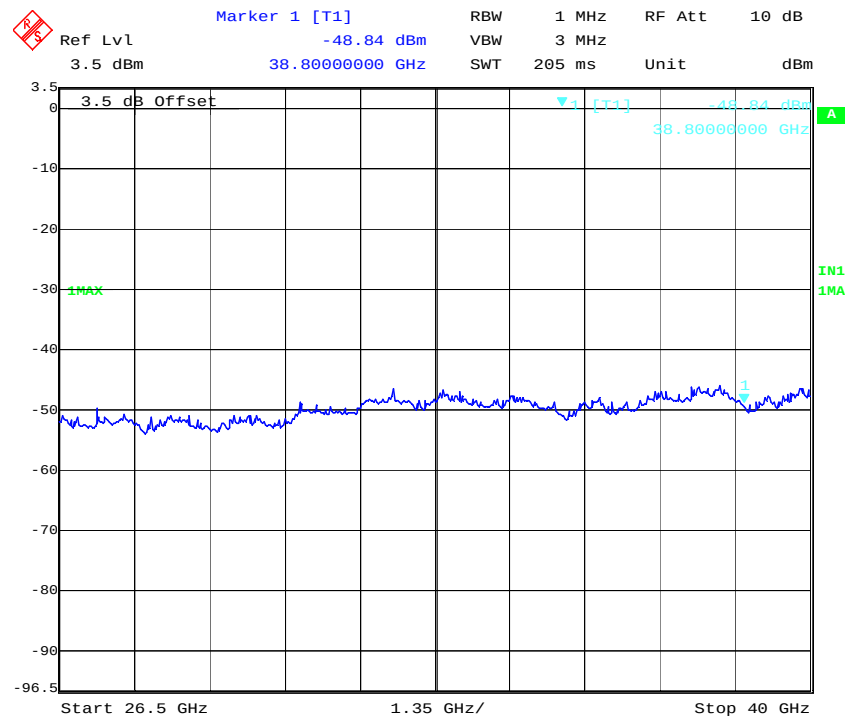


Figure 167: 40MHz, 6dBi, High Channel: Peak Emission from 26.5 GHz to 40 GHz at Ch. 0

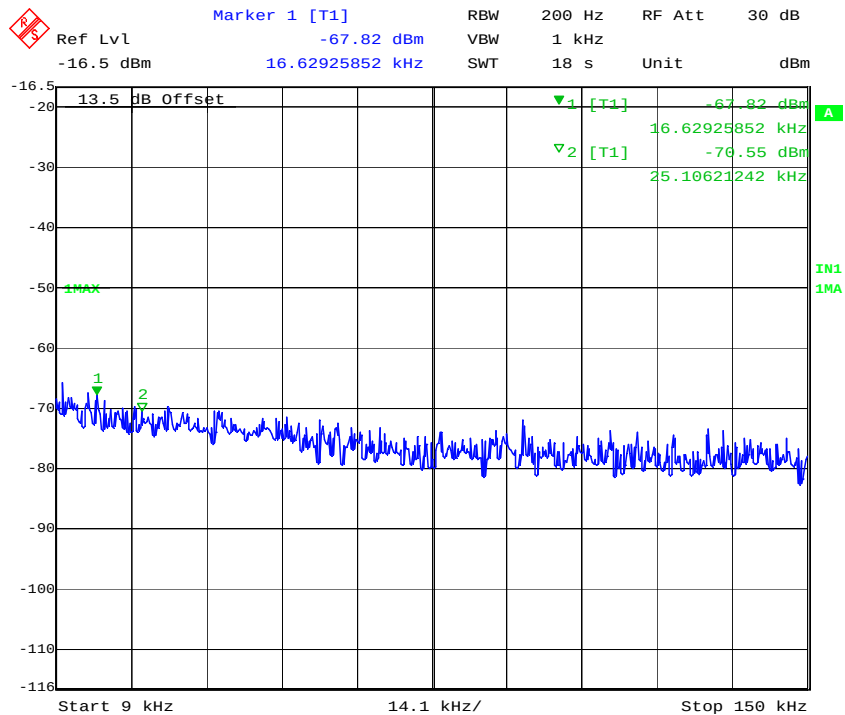


Figure 168: 40MHz, 6dBi, High Channel: Peak Emission from 9 kHz to 150 kHz at Ch. 1

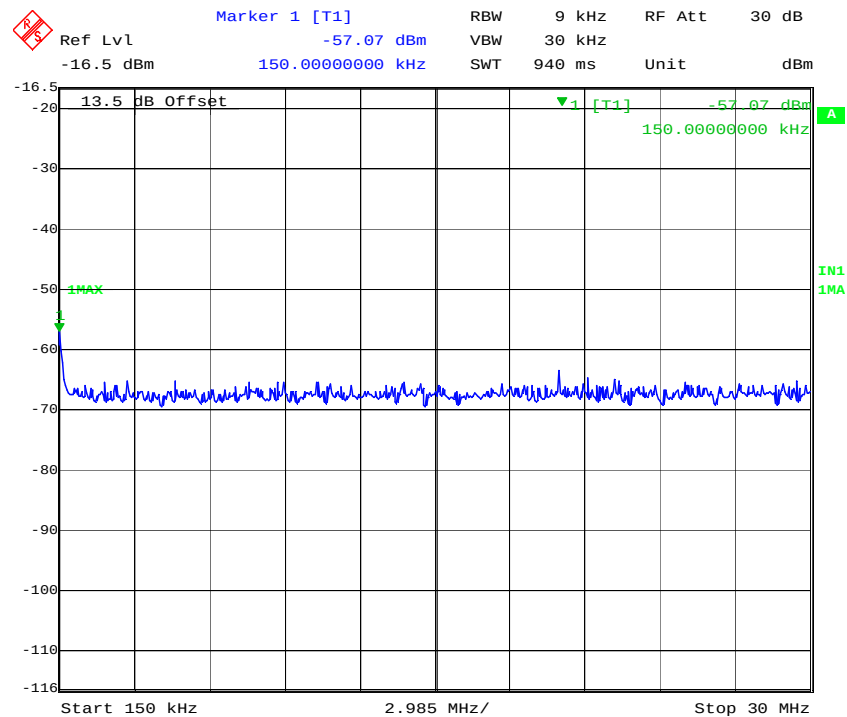


Figure 169: 40MHz, 6dBi, High Channel: Peak Emission from 150 kHz to 30 MHz at Ch. 1

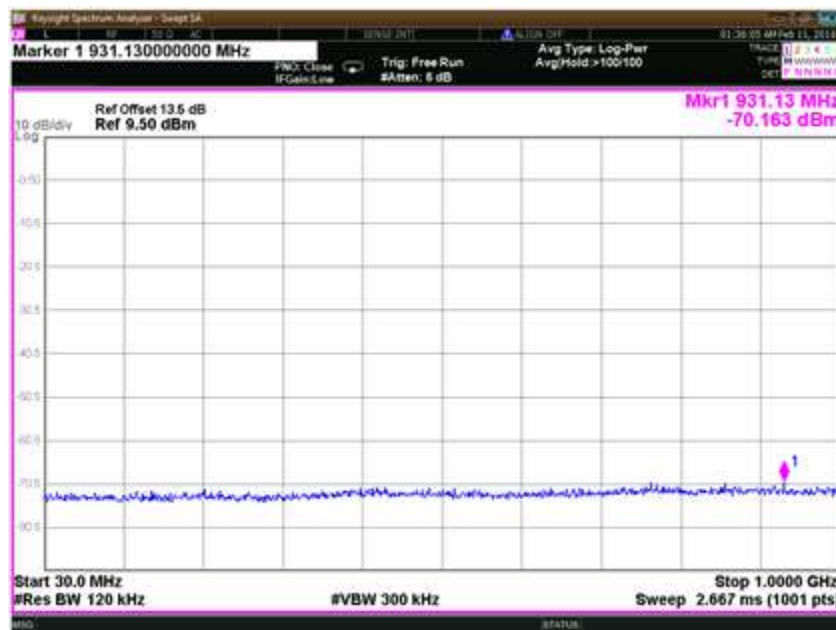


Figure 170: 40MHz, 6dBi, High Channel: Peak Emission from 30 MHz to 1 GHz at Ch. 1

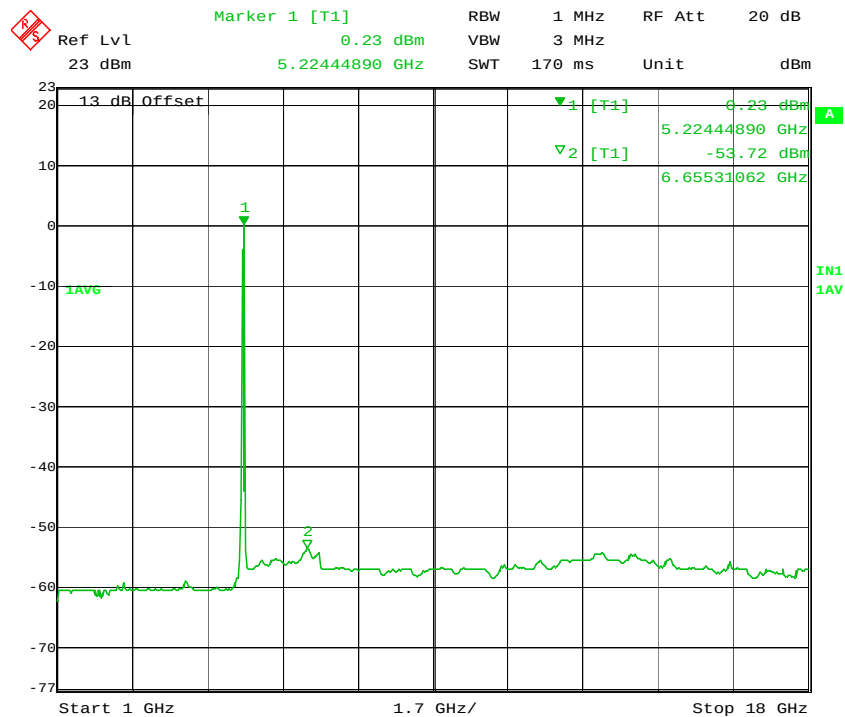


Figure 171: 40MHz, 6dBi, High Channel: Average Emission from 1 GHz to 18 GHz at Ch. 1

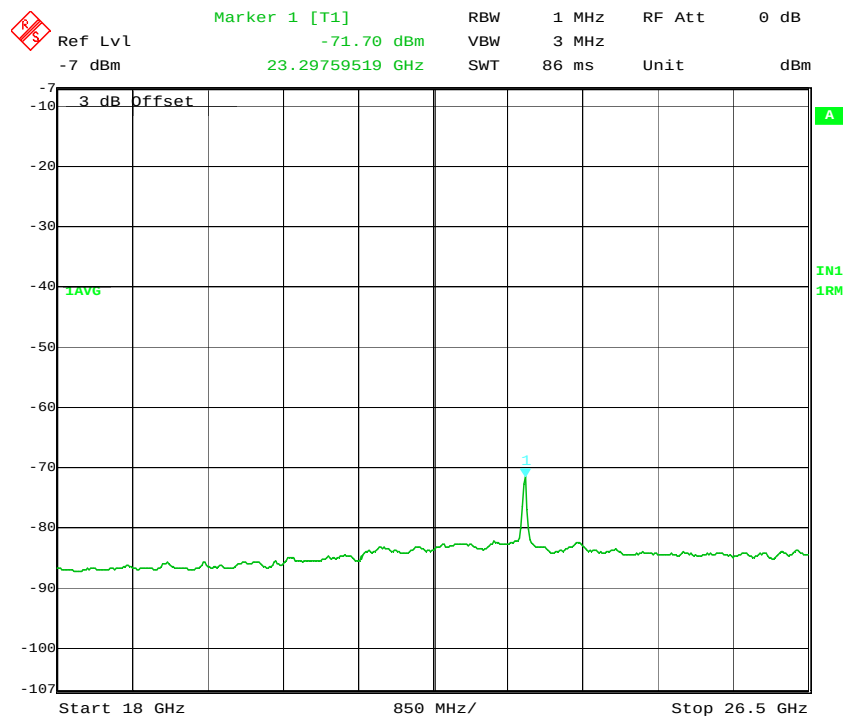


Figure 172: 40MHz, 6dBi, High Channel: Average Emission from 18 GHz to 26.5 GHz at Ch. 1



Figure 173: 40MHz, 6dBi, High Channel: Average Emission from 26.5 GHz to 40 GHz at Ch. 1

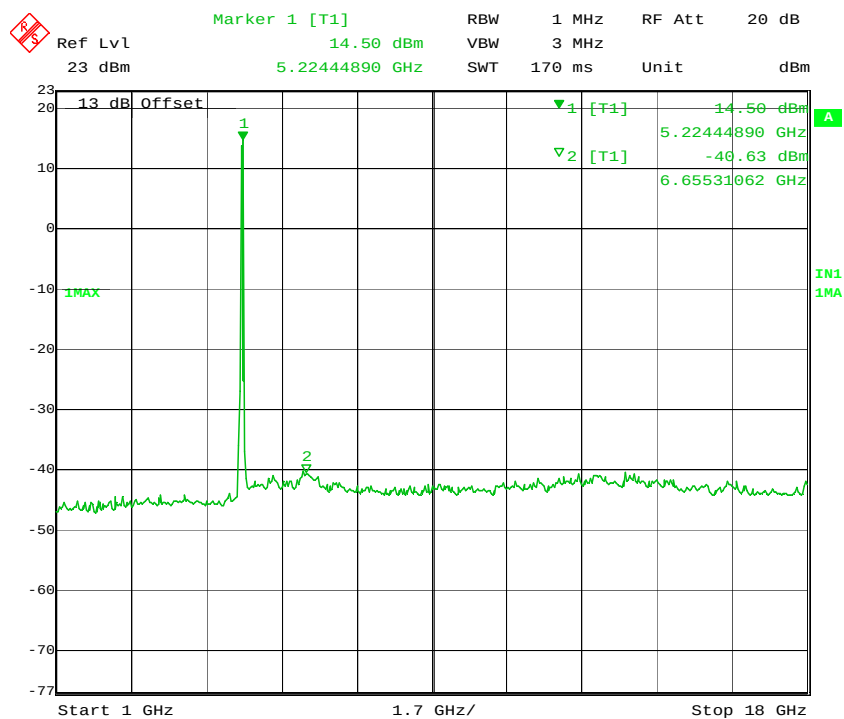


Figure 174: 40MHz, 6dBi, High Channel: Peak Emission from 1 GHz to 18 GHz at Ch. 1

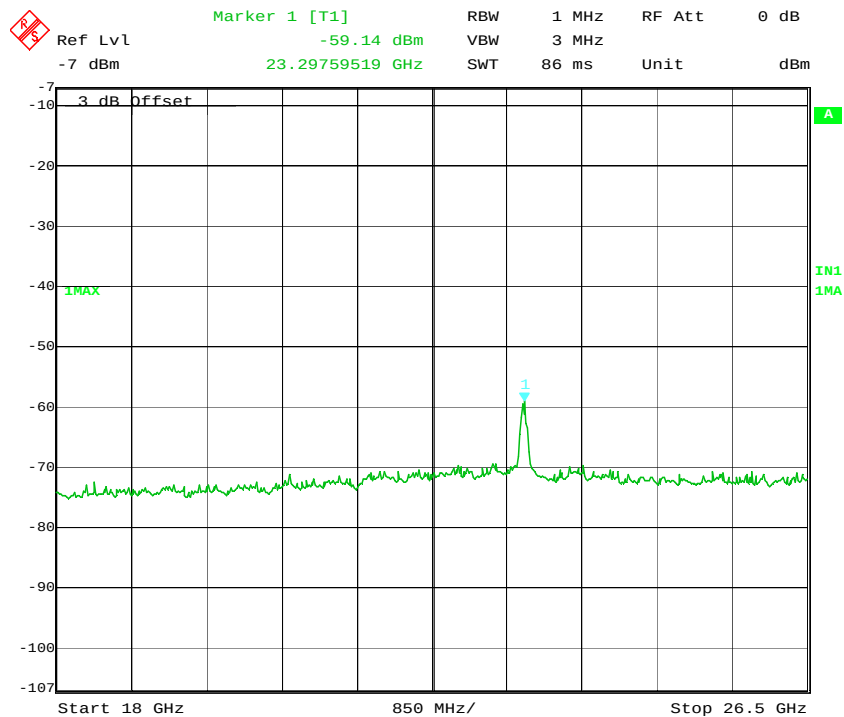


Figure 175: 40MHz, 6dBi, High Channel: Peak Emission from 18 GHz to 26.5 GHz at Ch. 1

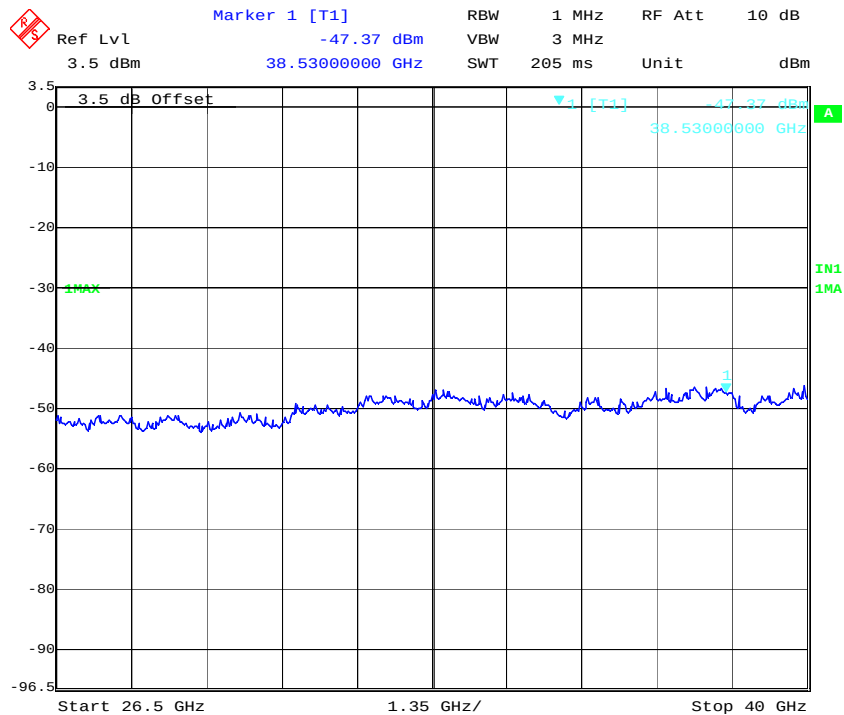


Figure 176: 40MHz, 6dBi, High Channel: Peak Emission from 26.5 GHz to 40 GHz at Ch. 1

5.3.5.5.7 5 MHz MODULATION BANDWIDTH, 17 dBi ANTENNA, LOW CHANNEL - 5115 MHz

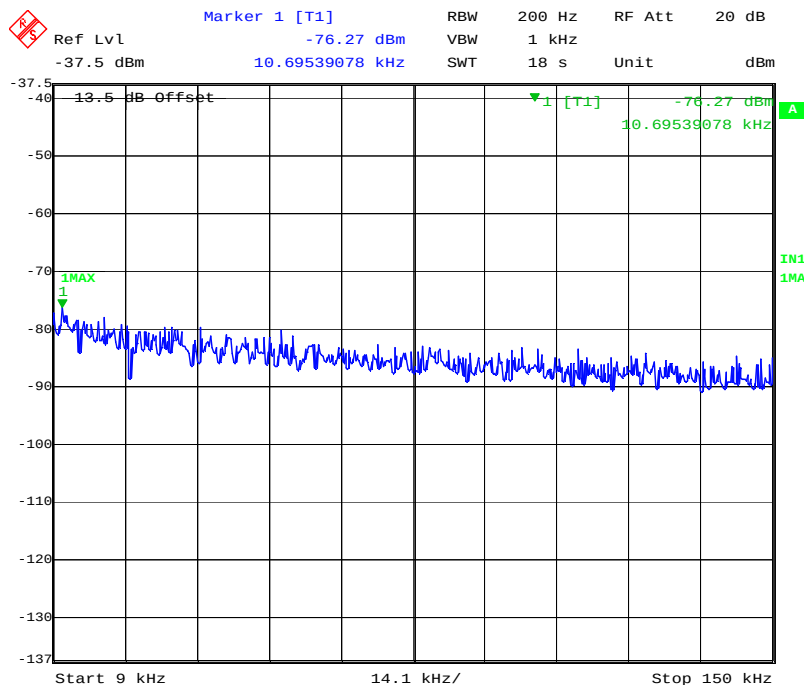


Figure 177: 5MHz, 17dBi, Low Channel: Peak Emission from 9 kHz to 150 kHz at Ch. 0

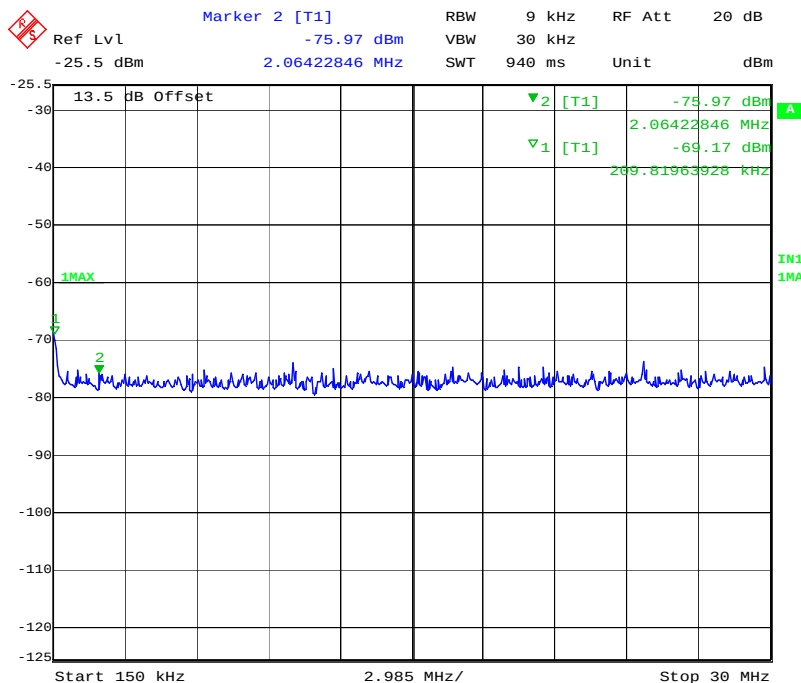


Figure 178: 5MHz, 17dBi, Low Channel: Peak Emission from 150 kHz to 30 MHz at Ch. 0

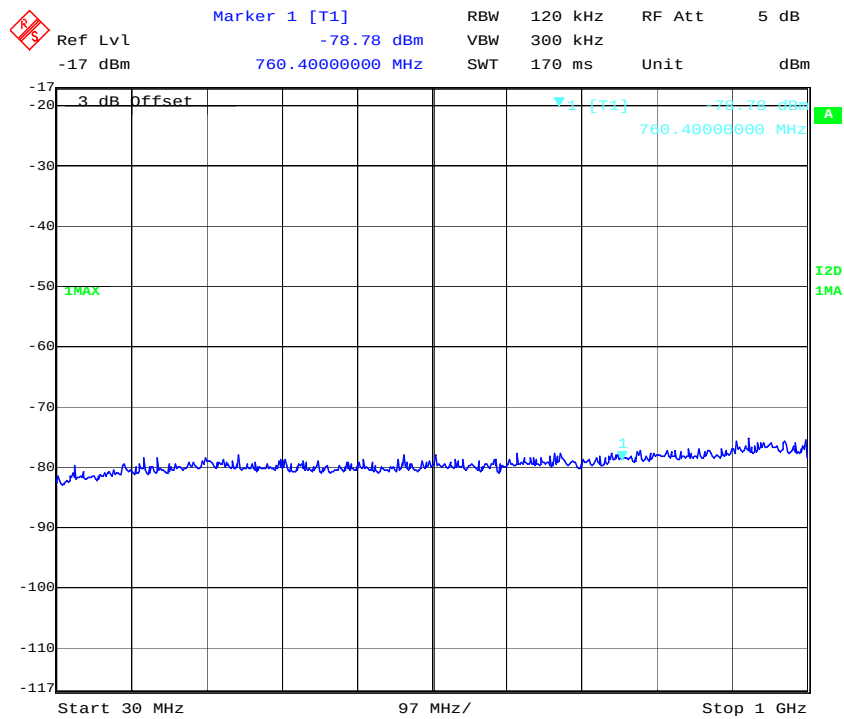


Figure 179: 5MHz, 17dBi, Low Channel: Peak Emission from 30 MHz to 1 GHz at Ch. 0

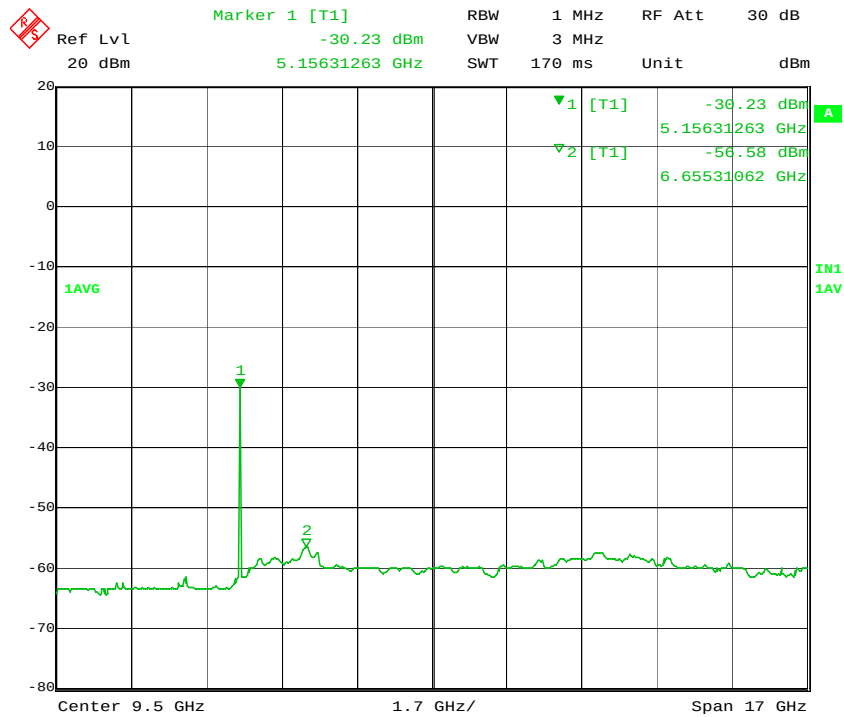


Figure 180: 5MHz, 17dBi, Low Channel: Average Emission from 1 GHz to 18 GHz at Ch. 0

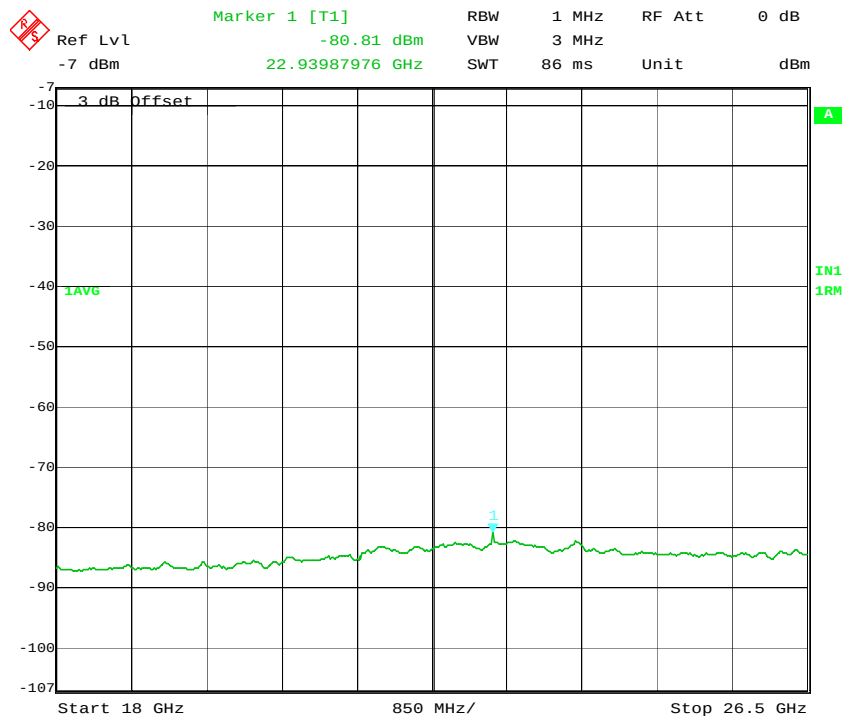


Figure 181: 5MHz, 17dBi, Low Channel: Average Emission from 18 GHz to 26.5 GHz at Ch. 0

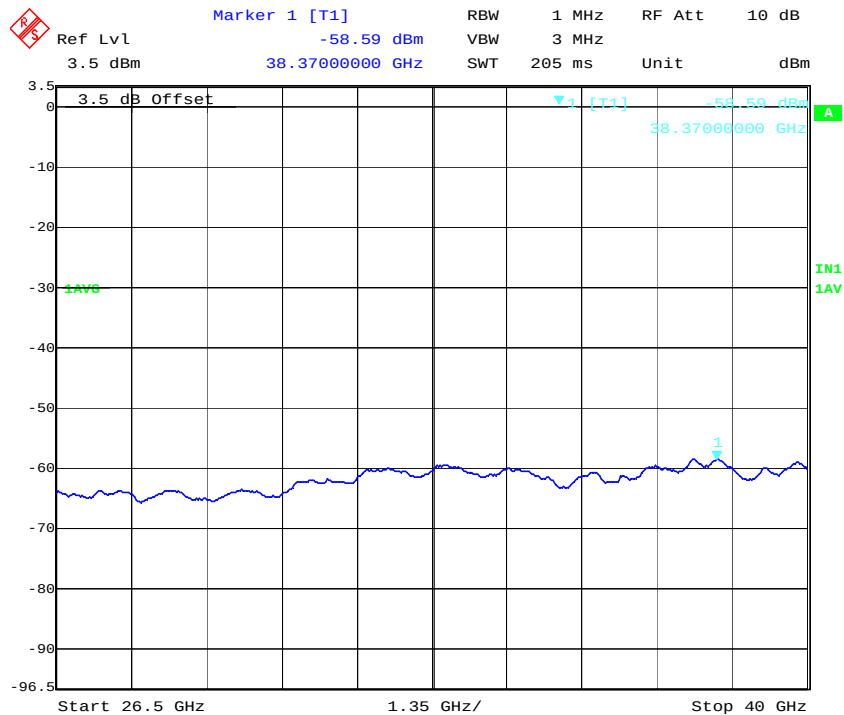


Figure 182: 5MHz, 17dBi, Low Channel: Average Emission from 26.5 GHz to 40 GHz at Ch. 0

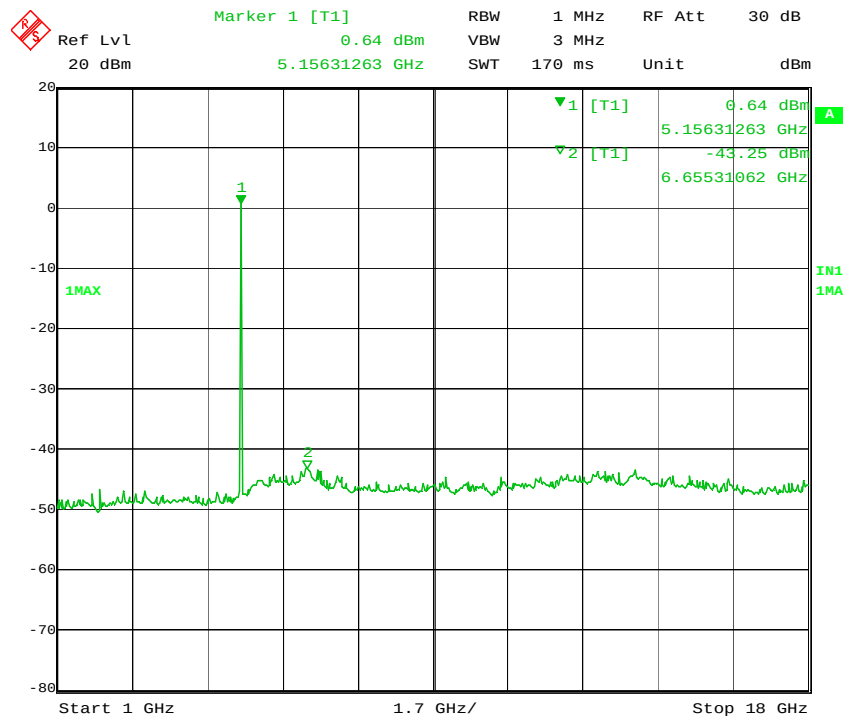


Figure 183: 5MHz, 17dBi, Low Channel: Peak Emission from 1 GHz to 18 GHz at Ch. 0

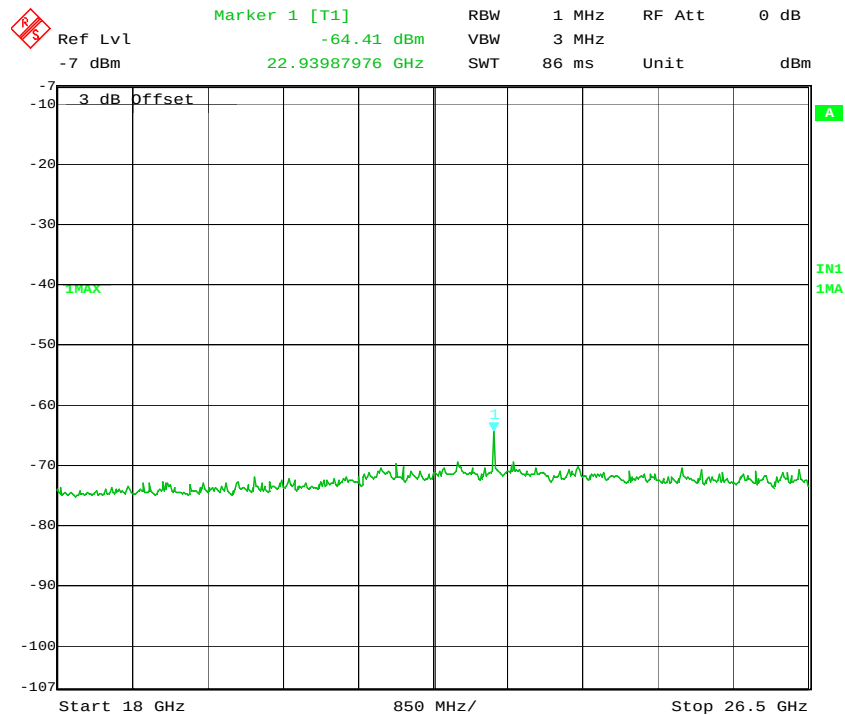


Figure 184: 5MHz, 17dBi, Low Channel: Peak Emission from 18 GHz to 26.5 GHz at Ch. 0

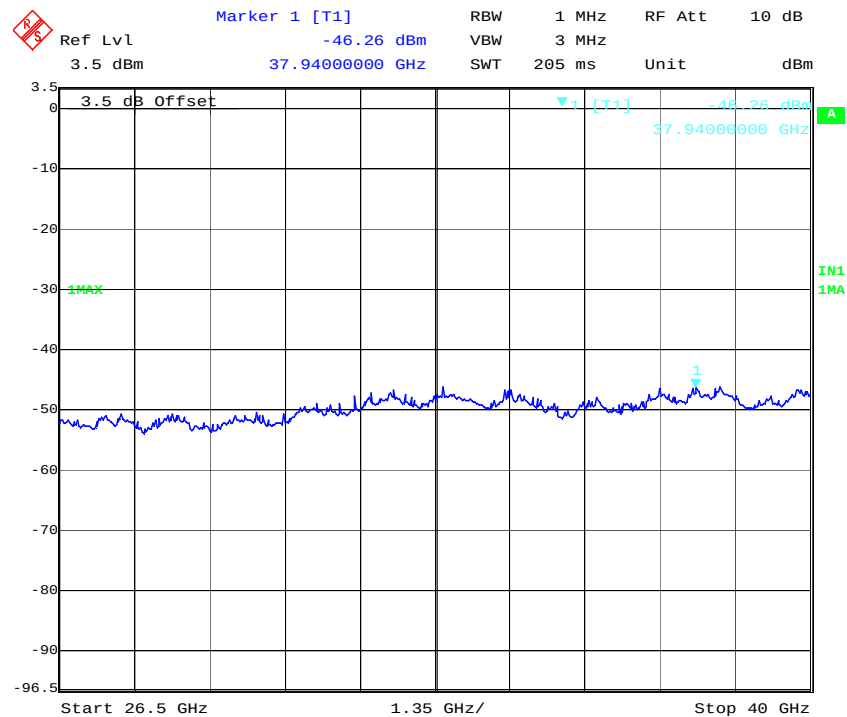


Figure 185: 5MHz, 17dBi, Low Channel: Peak Emission from 26.5 GHz to 40 GHz at Ch. 0

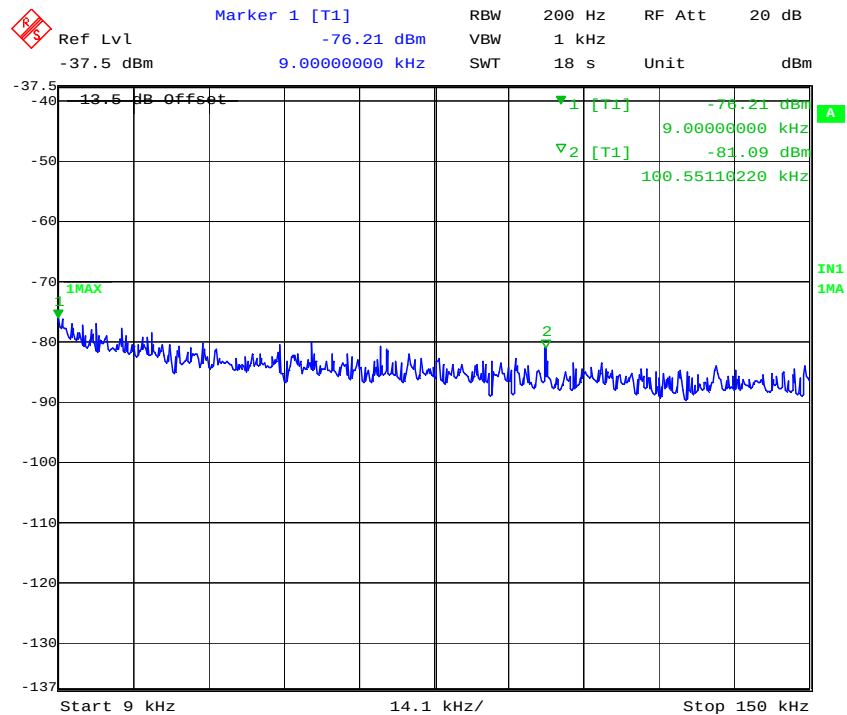


Figure 186: 5MHz, 17dBi, Low Channel: Peak Emission from 9 kHz to 150 kHz at Ch. 1

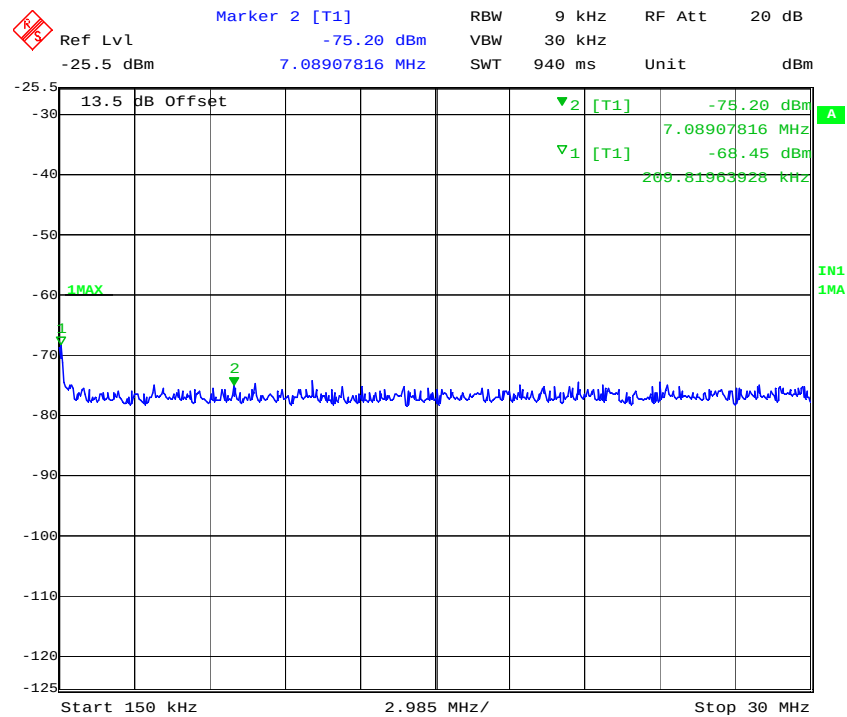


Figure 187: 5MHz, 17dBi, Low Channel: Peak Emission from 150 kHz to 30 MHz at Ch. 1

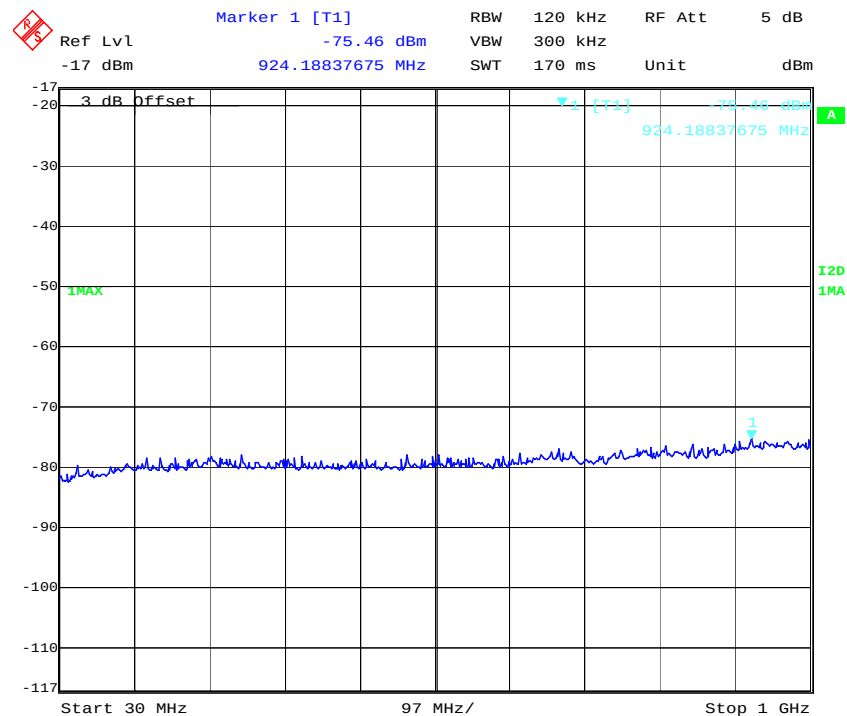


Figure 188: 5MHz, 17dBi, Low Channel: Peak Emission from 30 MHz to 1 GHz at Ch. 1

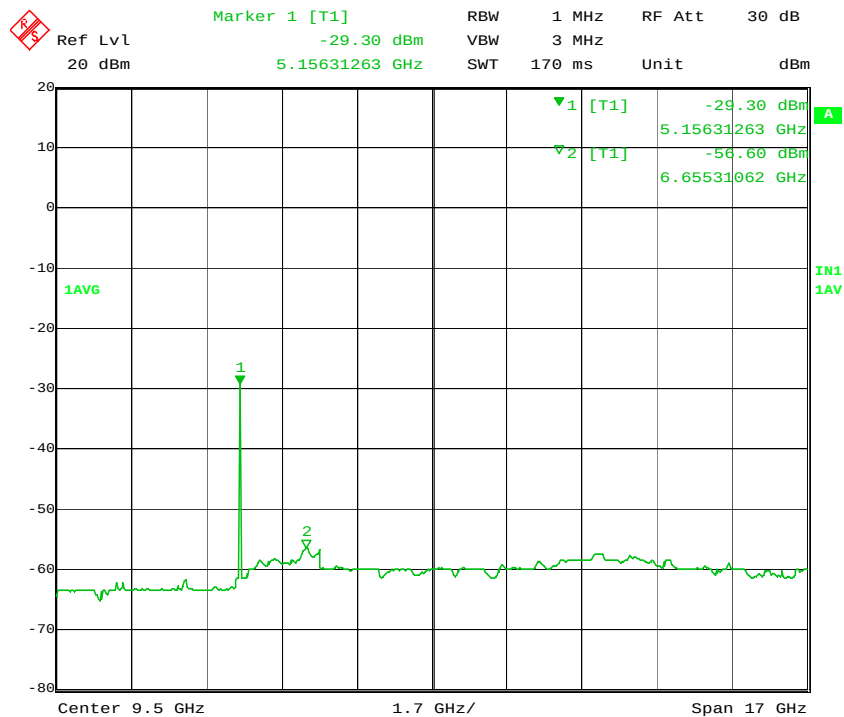


Figure 189: 5MHz, 17dBi, Low Channel: Average Emission from 1 GHz to 18 GHz at Ch. 1

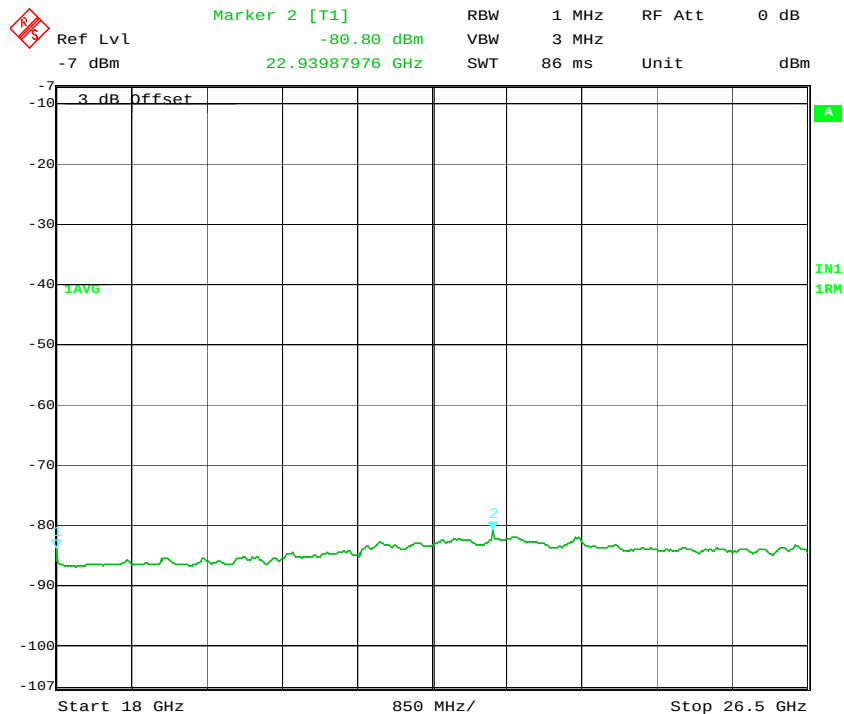


Figure 190: 5MHz, 17dBi, Low Channel: Average Emission from 18 GHz to 26.5 GHz at Ch. 1

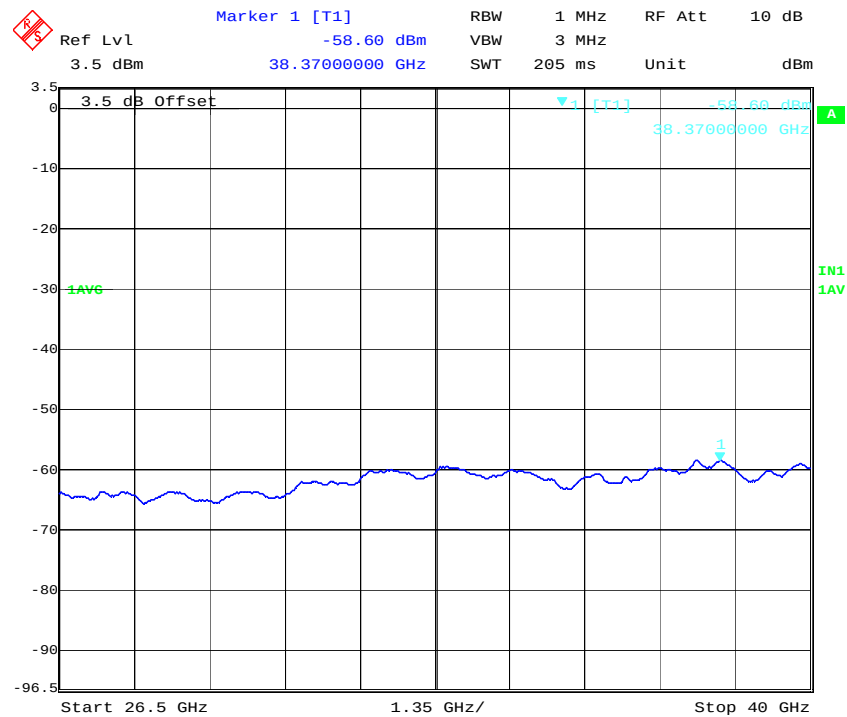


Figure 191: 5MHz, 17dBi, Low Channel: Average Emission from 26.5 GHz to 40 GHz at Ch. 1

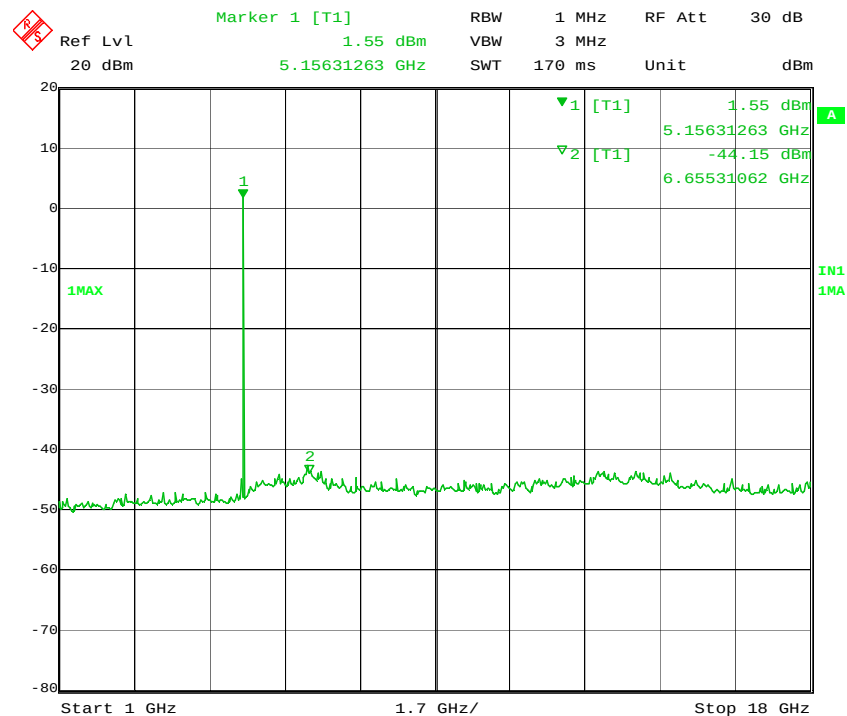


Figure 192: 5MHz, 17dBi, Low Channel: Peak Emission from 1 GHz to 18 GHz at Ch. 1

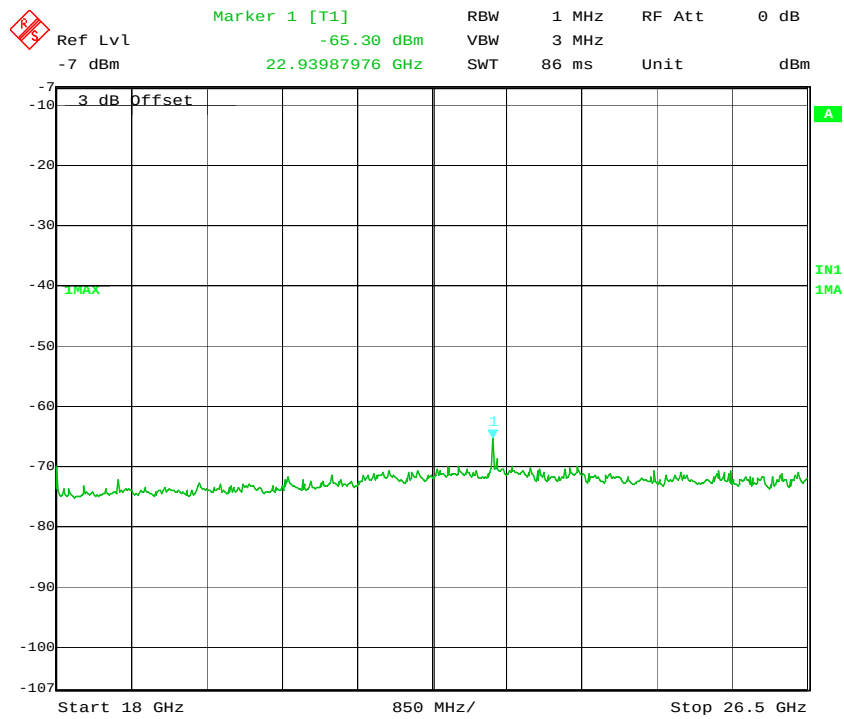


Figure 193: 5MHz, 17dBi, Low Channel: Peak Emission from 18 GHz to 26.5 GHz at Ch. 1

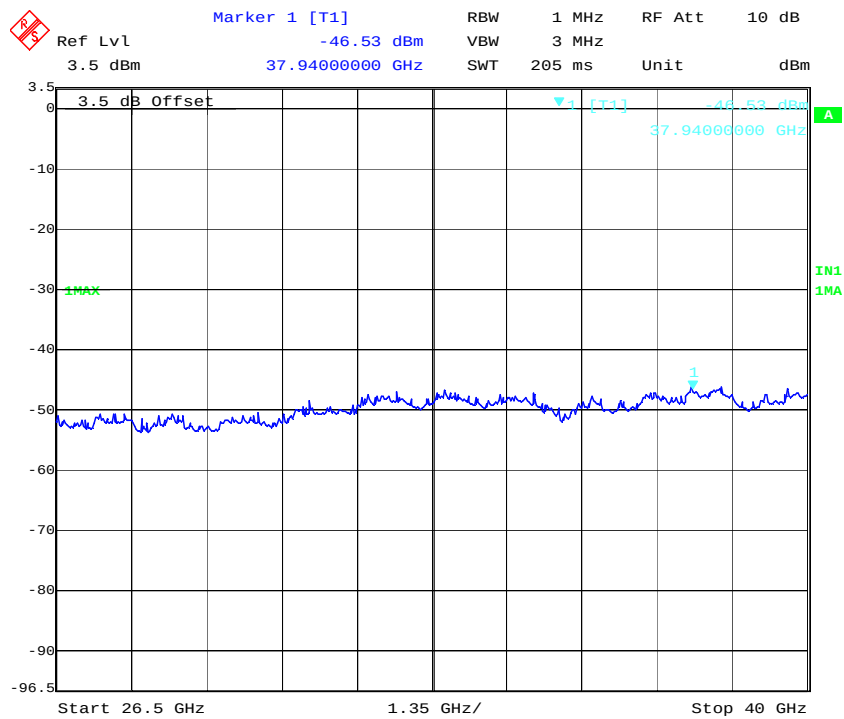


Figure 194: 5MHz, 17dBi, Low Channel: Peak Emission from 26.5 GHz to 40 GHz at Ch. 1

5.3.5.5.8 5 MHz MODULATION BANDWIDTH, 17 dBi ANTENNA, MID CHANNEL - 5200 MHz

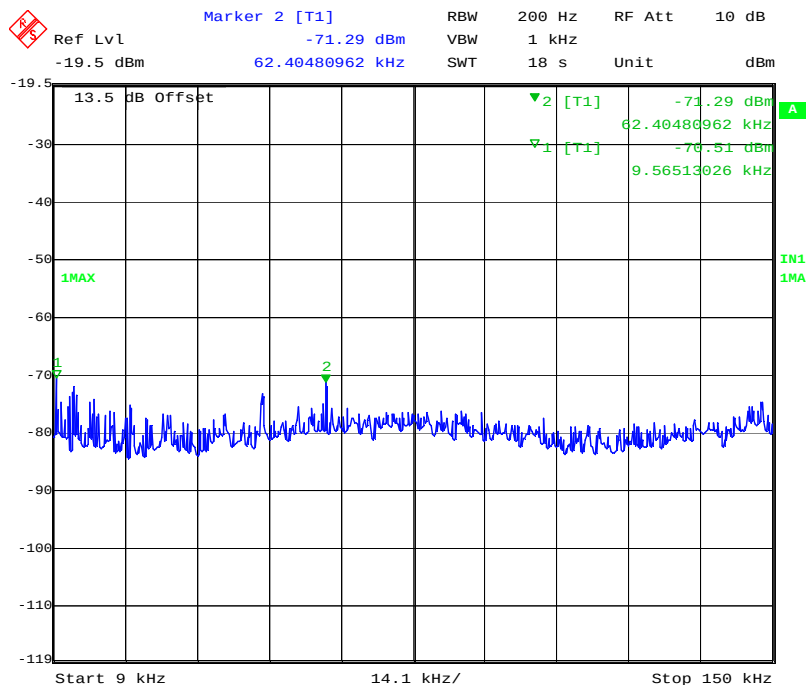


Figure 195: 5MHz, 17dBi, Mid Channel: Peak Emission from 9 kHz to 150 kHz at Ch. 0



Figure 196: 5MHz, 17dBi, Mid Channel: Peak Emission from 150 kHz to 30 MHz at Ch. 0

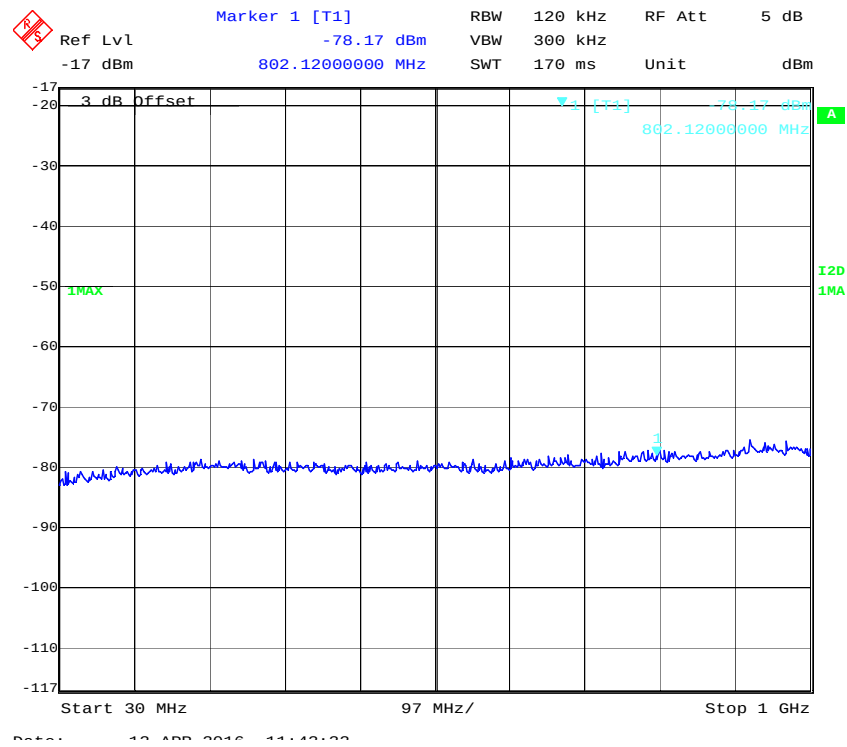


Figure 197: 5MHz, 17dBi, Mid Channel: Peak Emission from 30 MHz to 1 GHz at Ch. 0

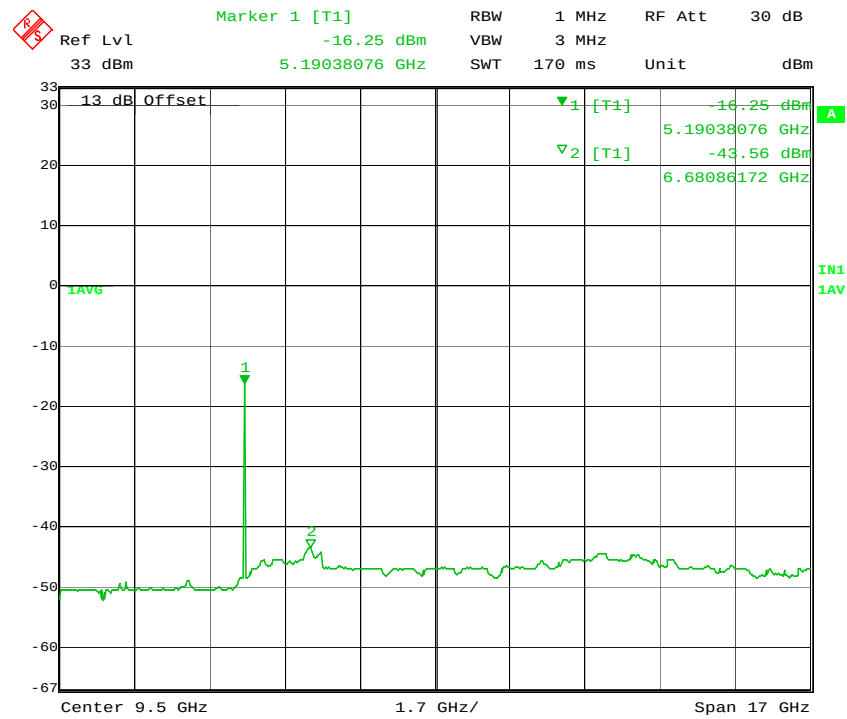


Figure 198: 5MHz, 17dBi, Mid Channel: Average Emission from 1 GHz to 18 GHz at Ch. 0

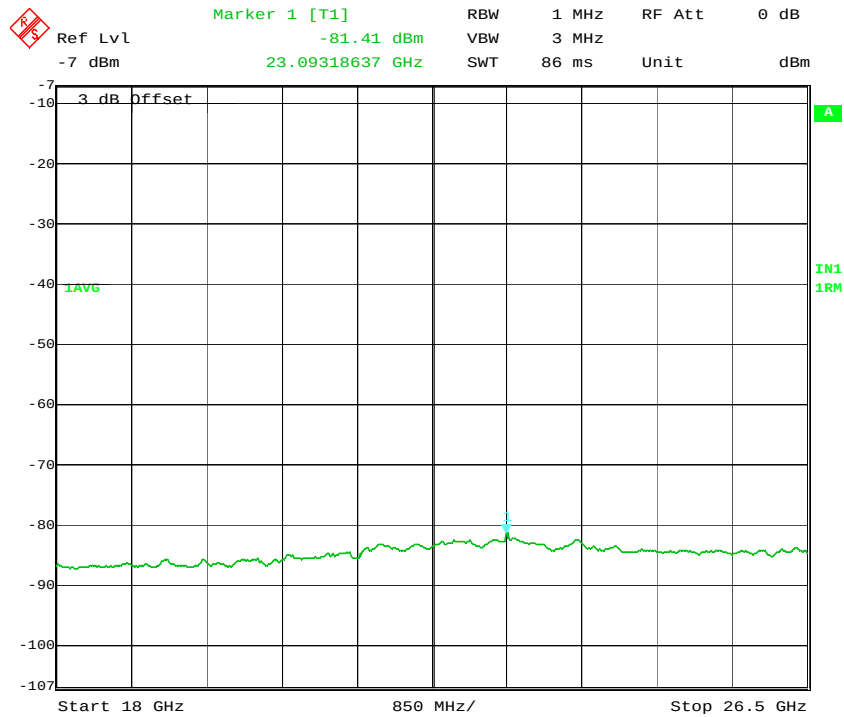


Figure 199: 5MHz, 17dBi, Mid Channel: Average Emission from 18 GHz to 26.5 GHz at Ch. 0

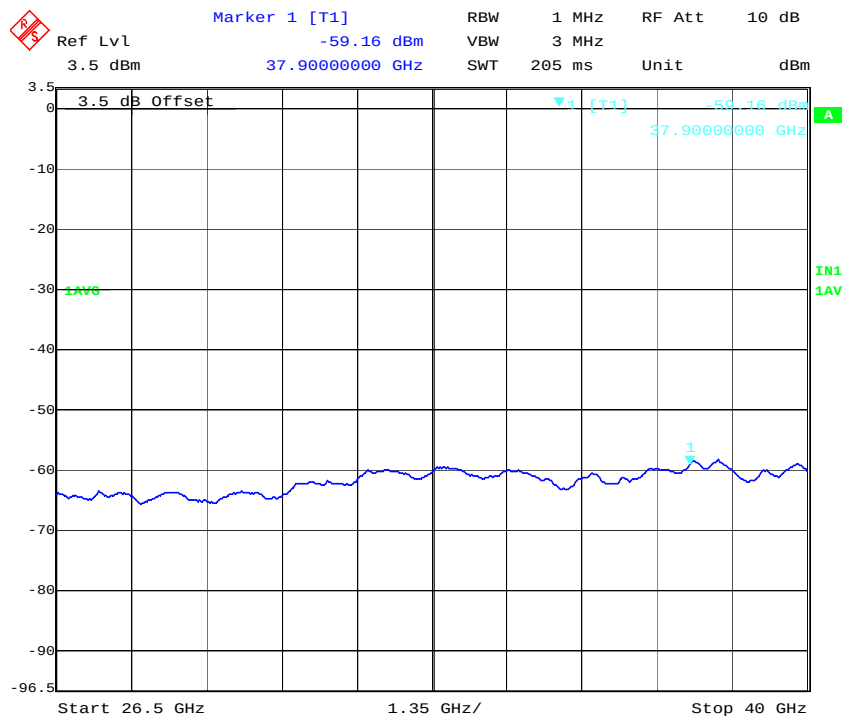


Figure 200: 5MHz, 17dBi, Mid Channel: Average Emission from 26.5 GHz to 40 GHz at Ch. 0

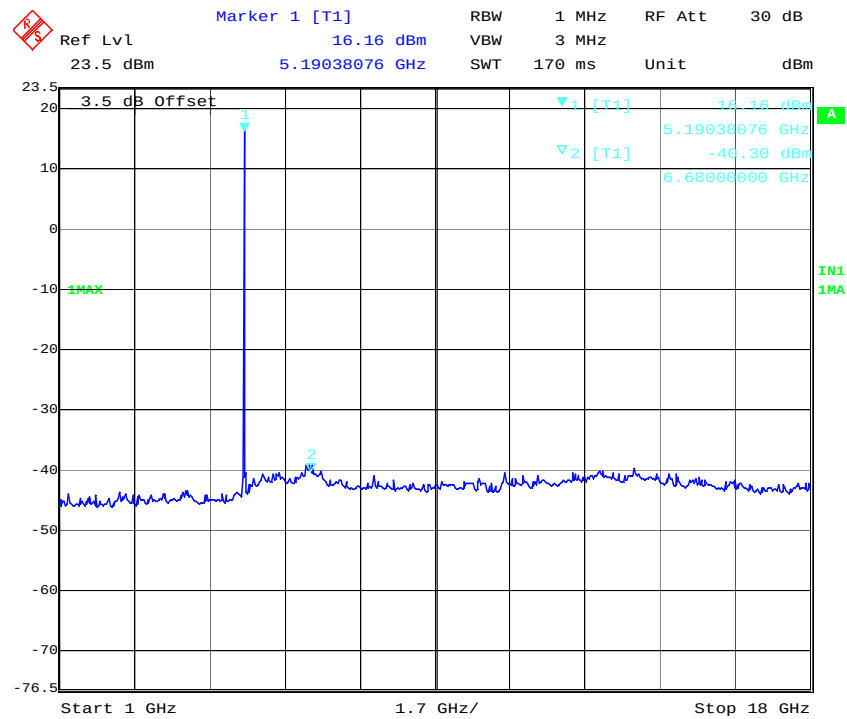


Figure 201: 5MHz, 17dBi, Mid Channel: Peak Emission from 1 GHz to 18 GHz at Ch. 0

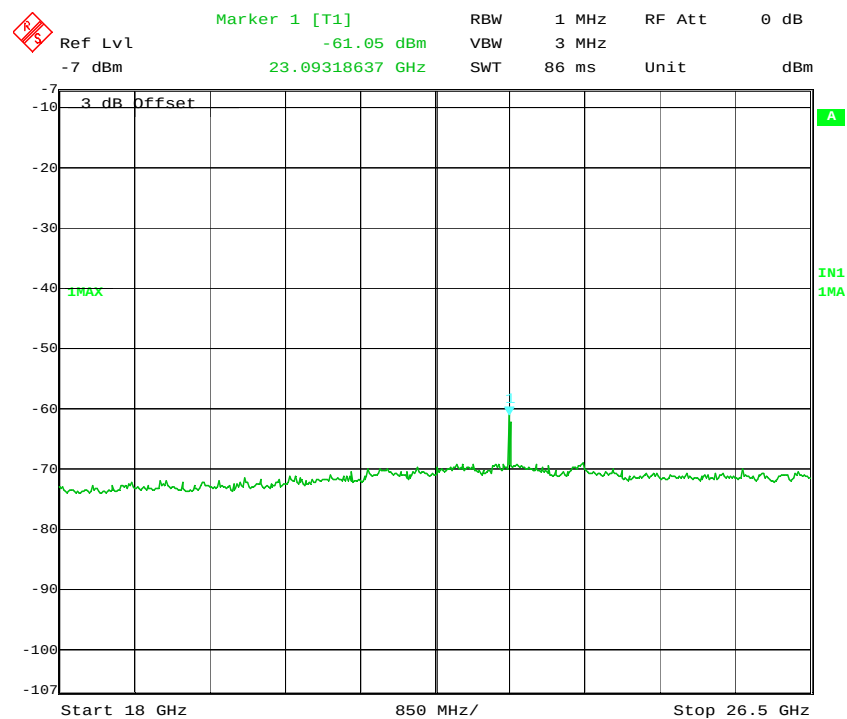


Figure 202: 5MHz, 17dBi, Mid Channel: Peak Emission from 18 GHz to 26.5 GHz at Ch. 0

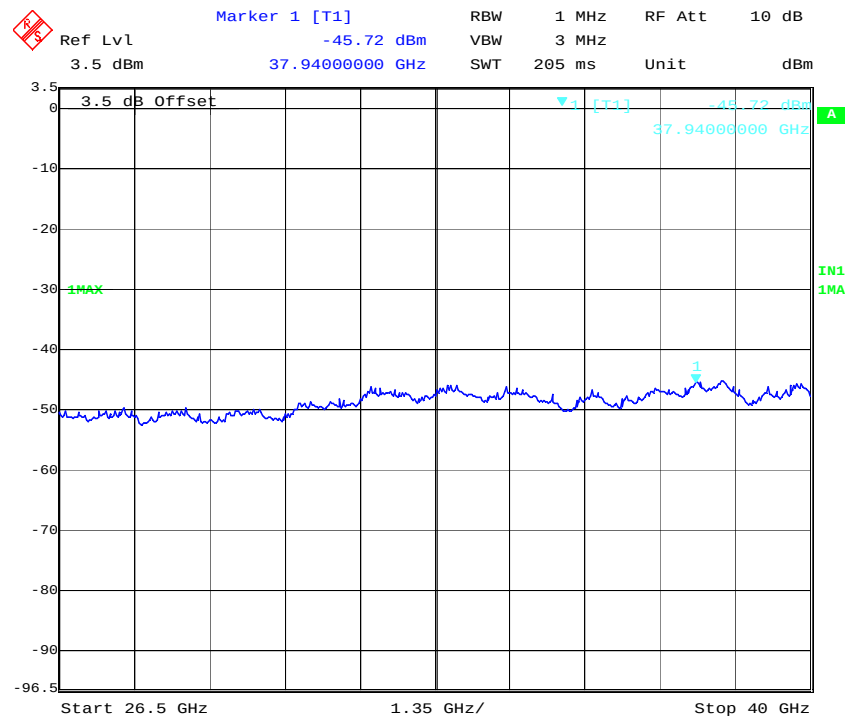


Figure 203: 5MHz, 17dBi, Mid Channel: Peak Emission from 26.5 GHz to 40 GHz at Ch. 0

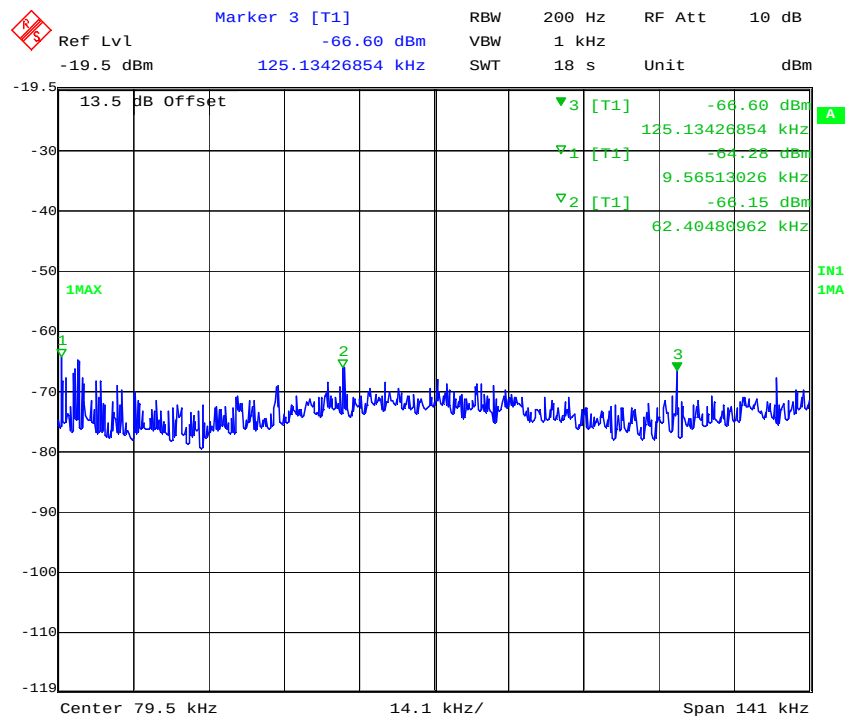


Figure 204: 5MHz, 17dBi, Mid Channel: Peak Emission from 9 kHz to 150 kHz at Ch. 1

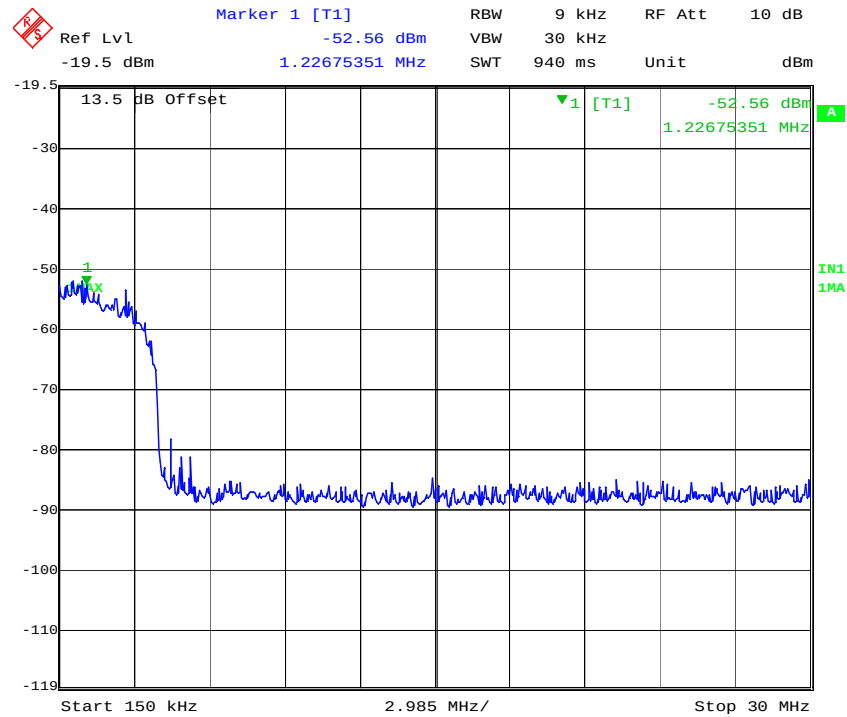


Figure 205: 5MHz, 17dBi, Mid Channel: Peak Emission from 150 kHz to 30 MHz at Ch. 1

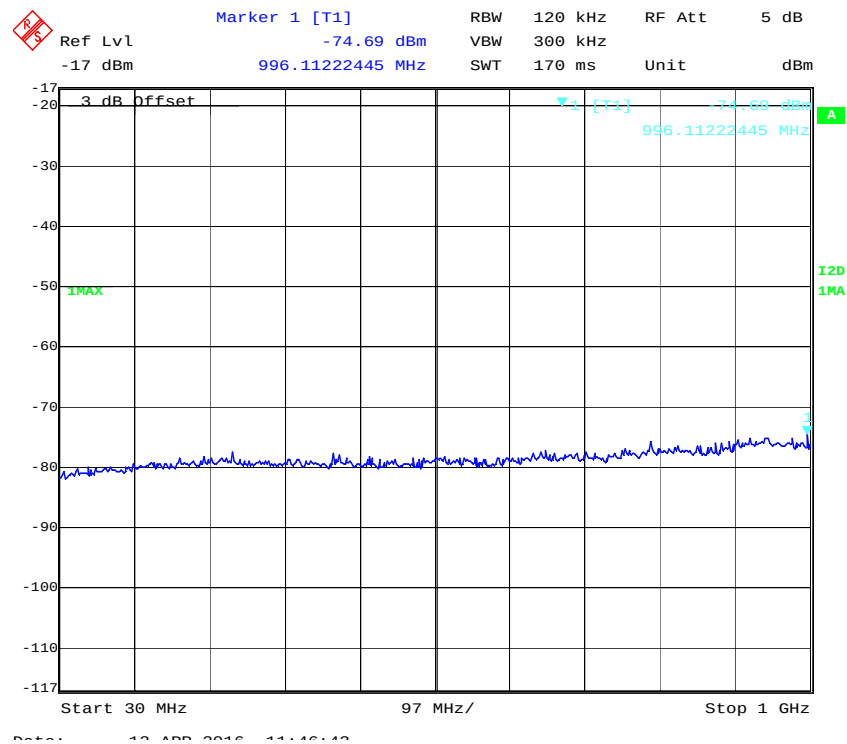


Figure 206: 5MHz, 17dBi, Mid Channel: Peak Emission from 30 MHz to 1 GHz at Ch. 1

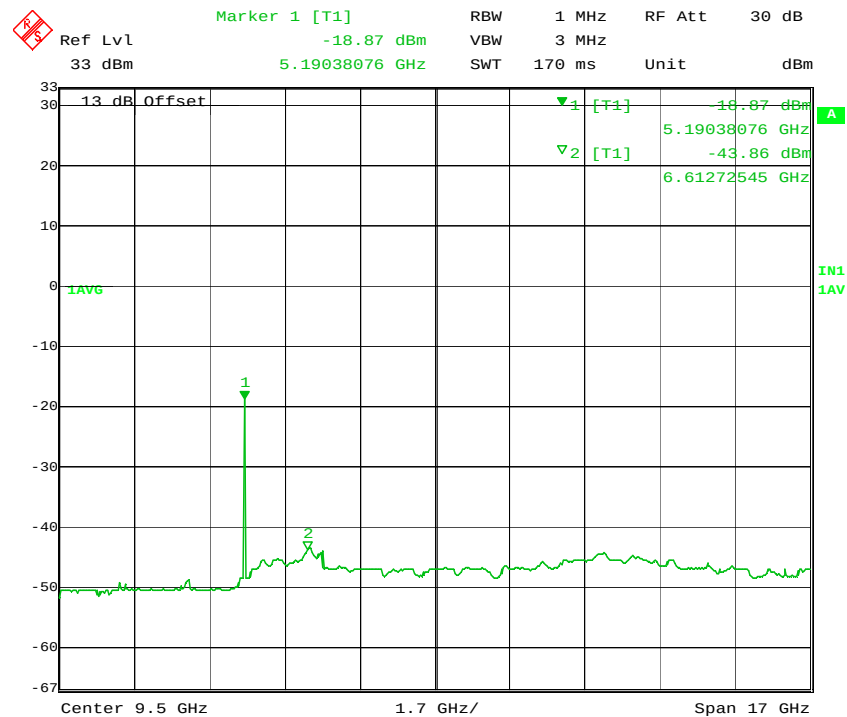


Figure 207: 5MHz, 17dBi, Mid Channel: Average Emission from 1 GHz to 18 GHz at Ch. 1

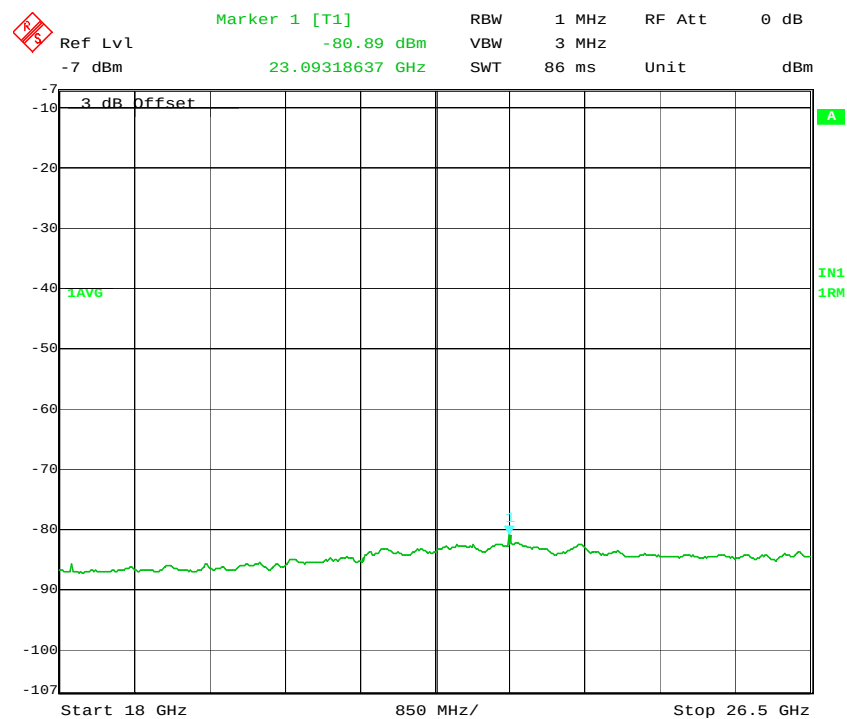


Figure 208: 5MHz, 17dBi, Mid Channel: Average Emission from 18 GHz to 26.5 GHz at Ch. 1

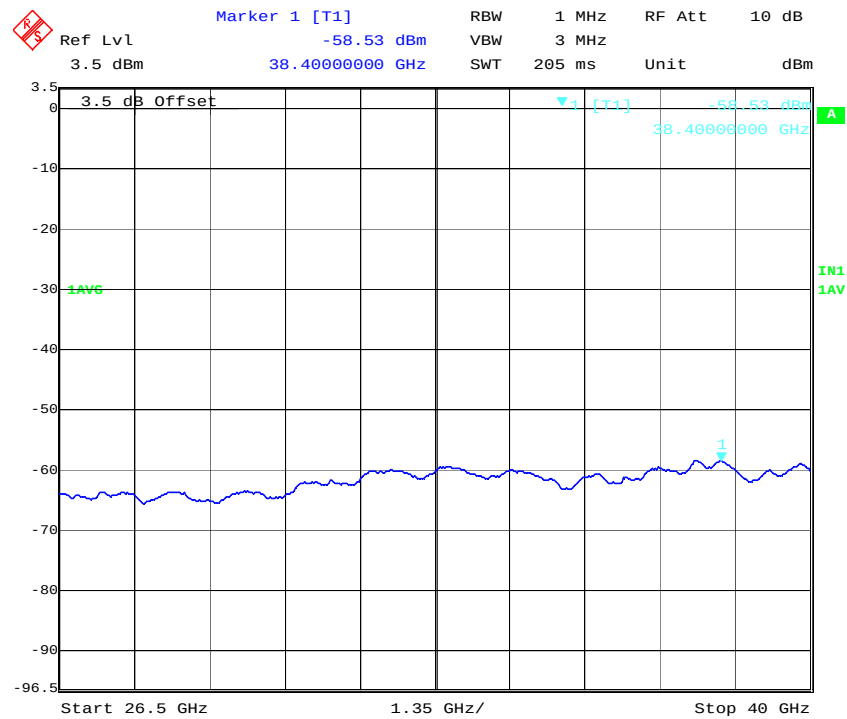


Figure 209: 5MHz, 17dBi, Mid Channel: Average Emission from 26.5 GHz to 40 GHz at Ch. 1

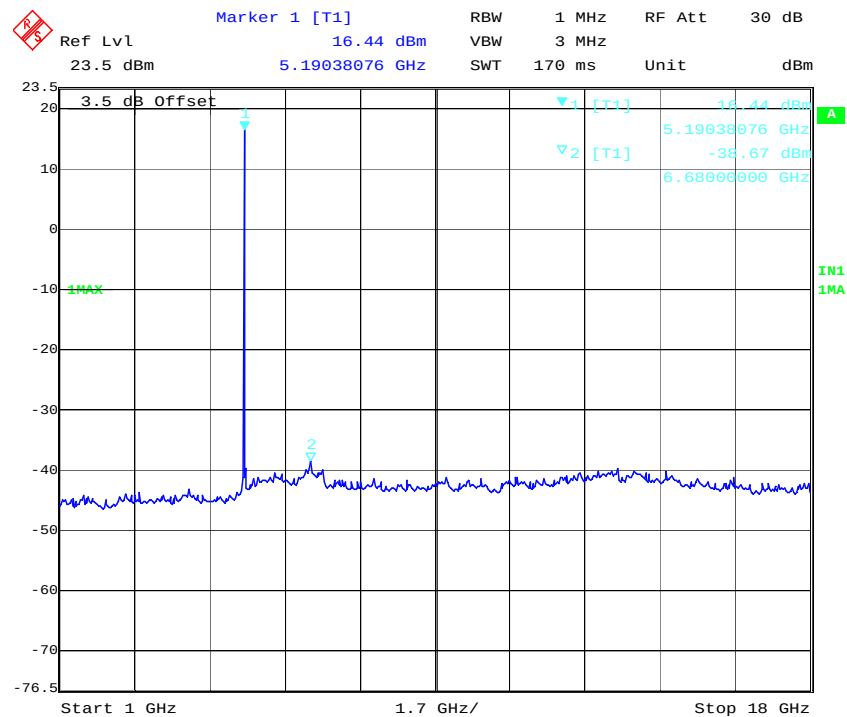


Figure 210: 5MHz, 17dBi, Mid Channel: Peak Emission from 1 GHz to 18 GHz at Ch. 1

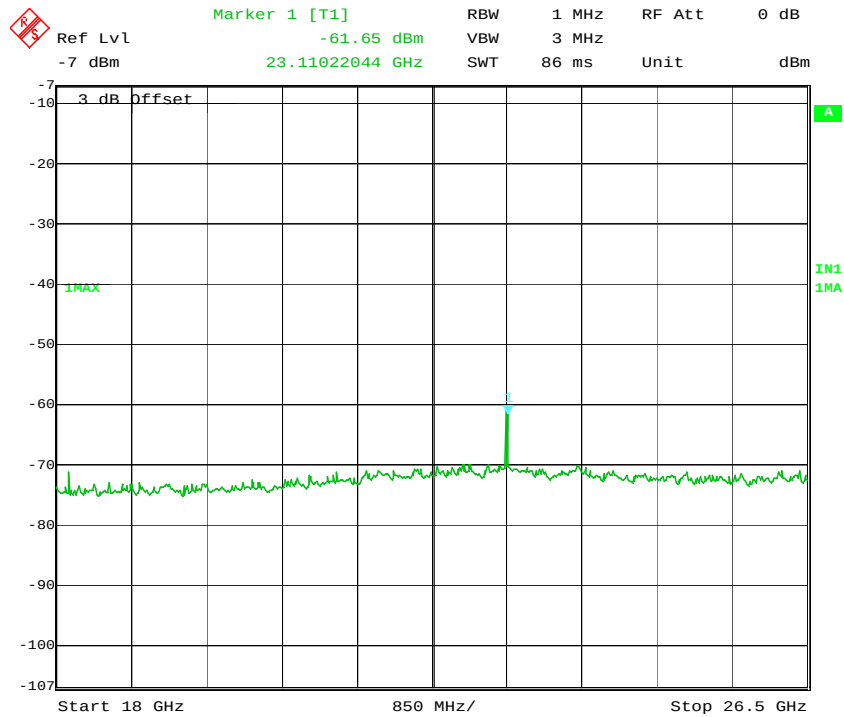


Figure 211: 5MHz, 17dBi, Mid Channel: Peak Emission from 18 GHz to 26.5 GHz at Ch. 1

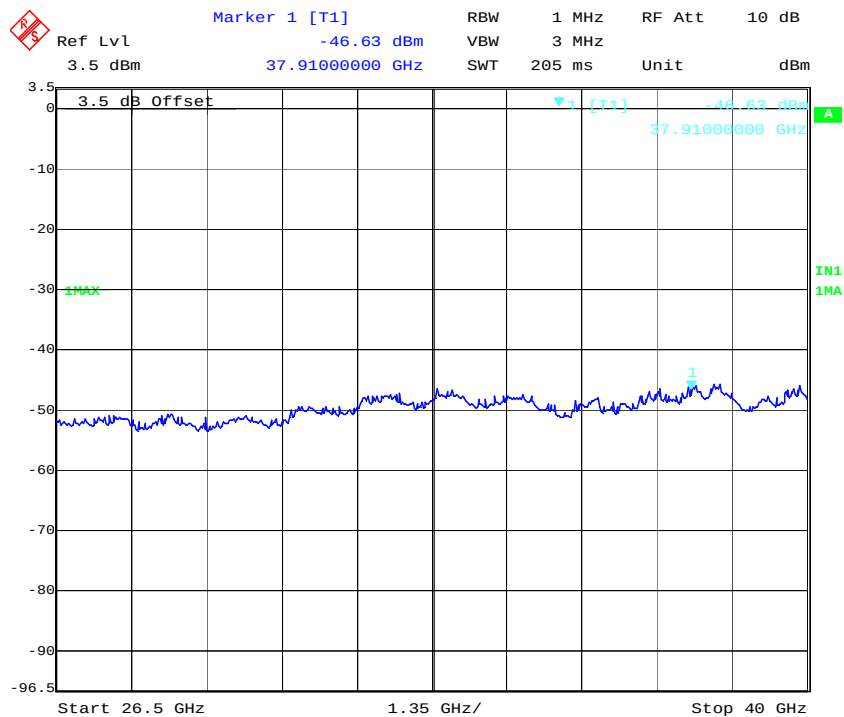


Figure 212: 5MHz, 17dBi, Mid Channel: Peak Emission from 26.5 GHz to 40 GHz at Ch. 1

5.3.5.5.9 5 MHz MODULATION BANDWIDTH, 17 dBi ANTENNA, HIGH CHANNEL - 5245 MHz

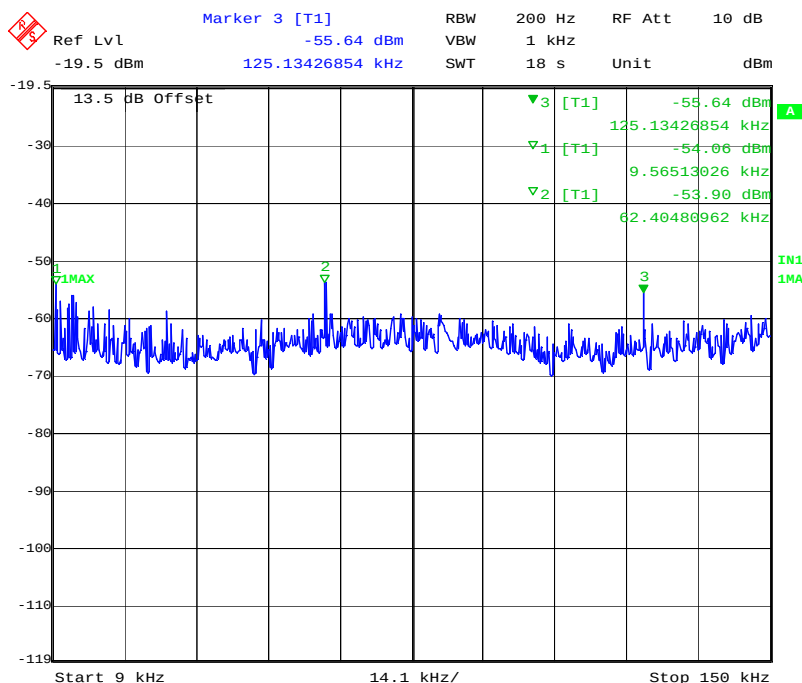


Figure 213: 5MHz, 17dBi, High Channel: Peak Emission from 9 kHz to 150 kHz at Ch. 0

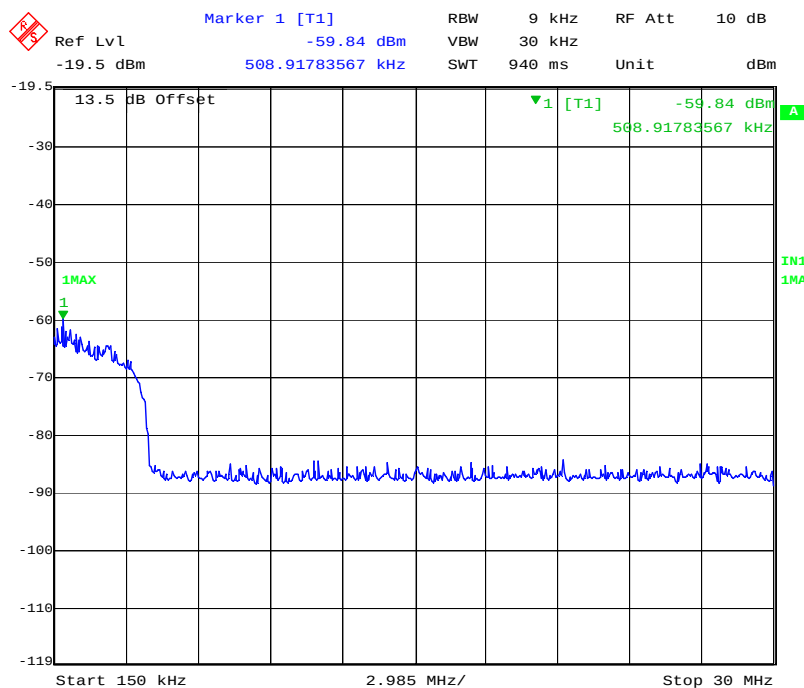


Figure 214: 5MHz, 17dBi, High Channel: Peak Emission from 150 kHz to 30 MHz at Ch. 0

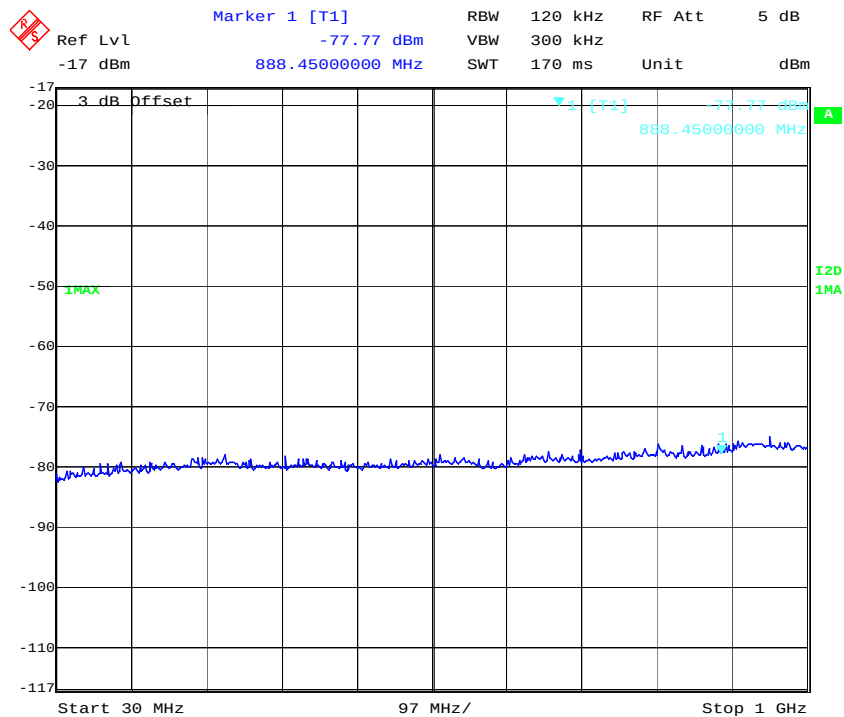


Figure 215: 5MHz, 17dBi, High Channel: Peak Emission from 30 MHz to 1 GHz at Ch. 0

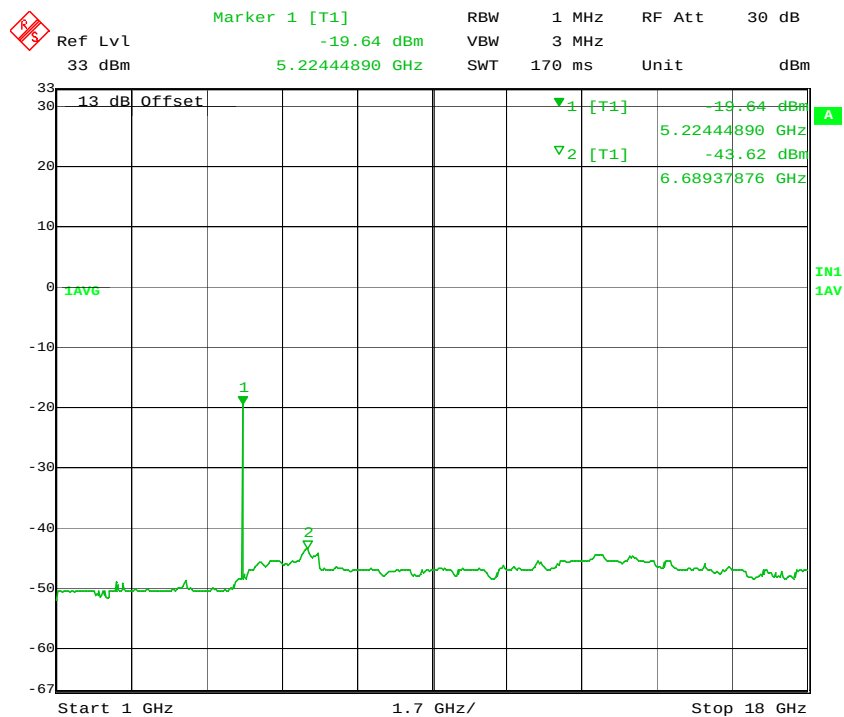


Figure 216: 5MHz, 17dBi, High Channel: Average Emission from 1 GHz to 18 GHz at Ch. 0

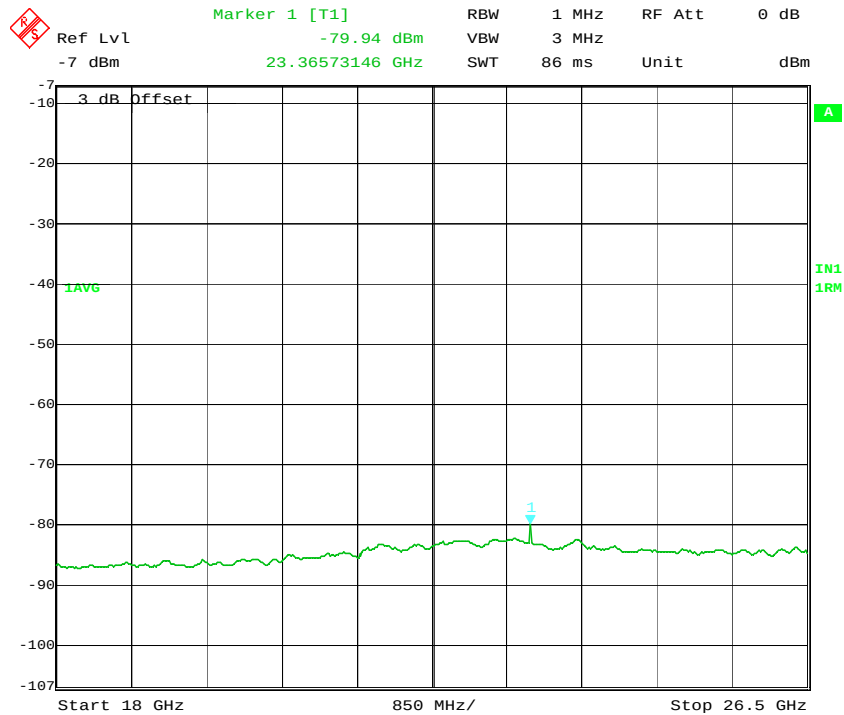


Figure 217: 5MHz, 17dBi, High Channel: Average Emission from 18 GHz to 26.5 GHz at Ch. 0

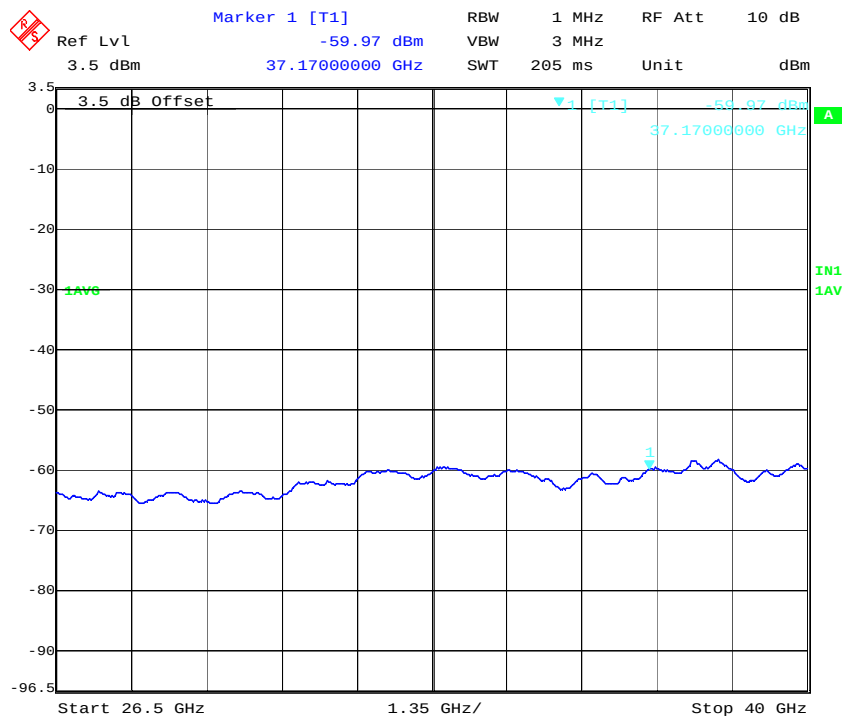


Figure 218: 5MHz, 17dBi, High Channel: Average Emission from 26.5 GHz to 40 GHz at Ch. 0

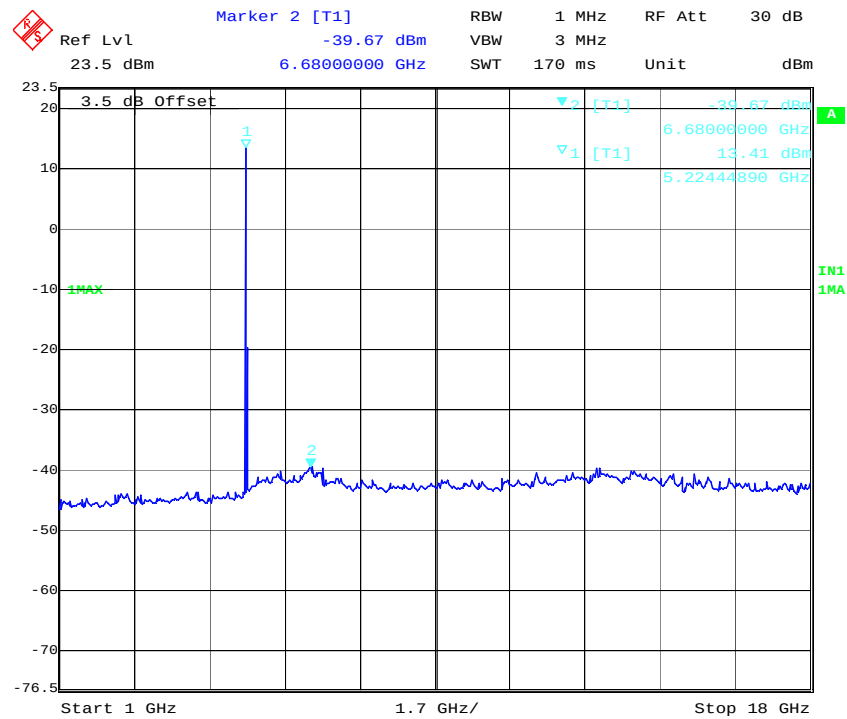


Figure 219: 5MHz, 17dBi, High Channel: Peak Emission from 1 GHz to 18 GHz at Ch. 0

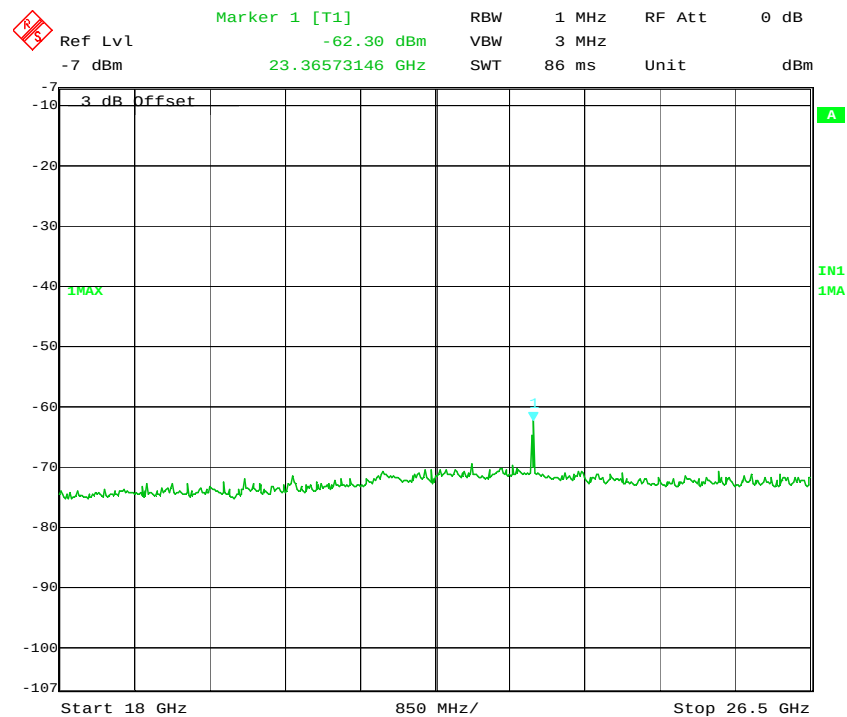


Figure 220: 5MHz, 17dBi, High Channel: Peak Emission from 18 GHz to 26.5 GHz at Ch. 0

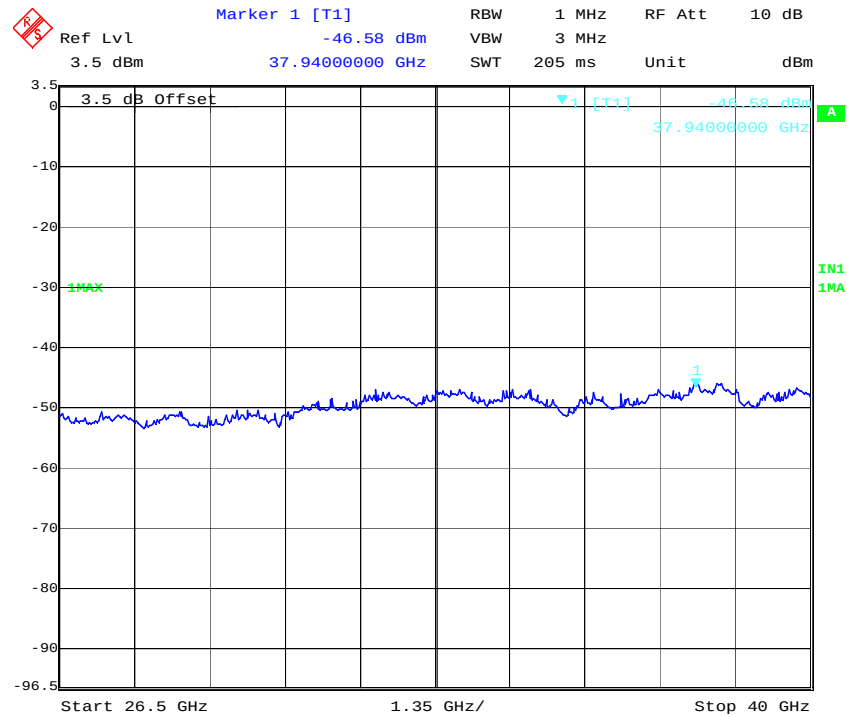


Figure 221: 5MHz, 17dBi, High Channel: Peak Emission from 26.5 GHz to 40 GHz at Ch. 0

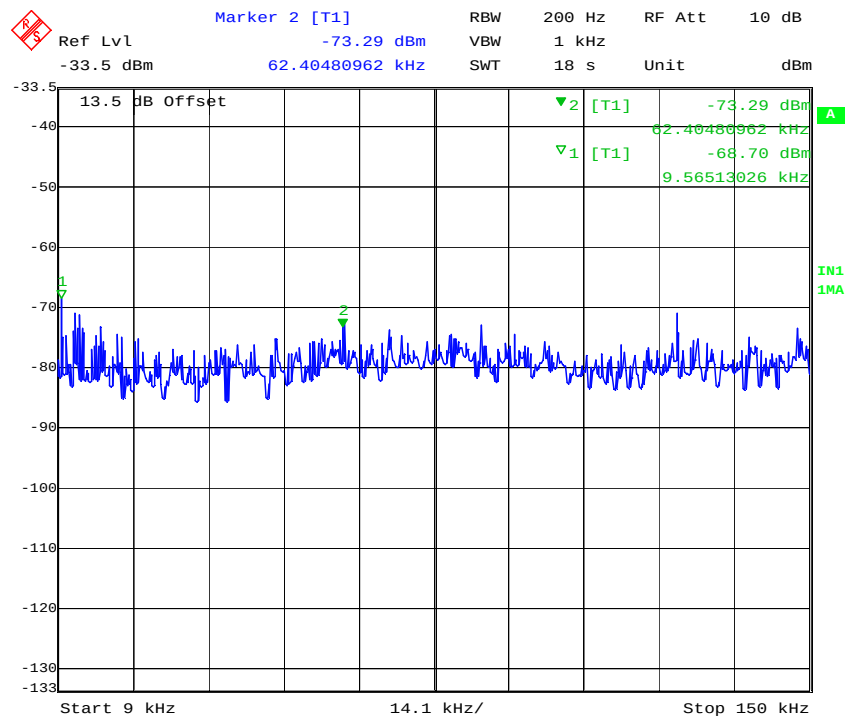


Figure 222: 5MHz, 17dBi, High Channel: Peak Emission from 9 kHz to 150 kHz at Ch. 1

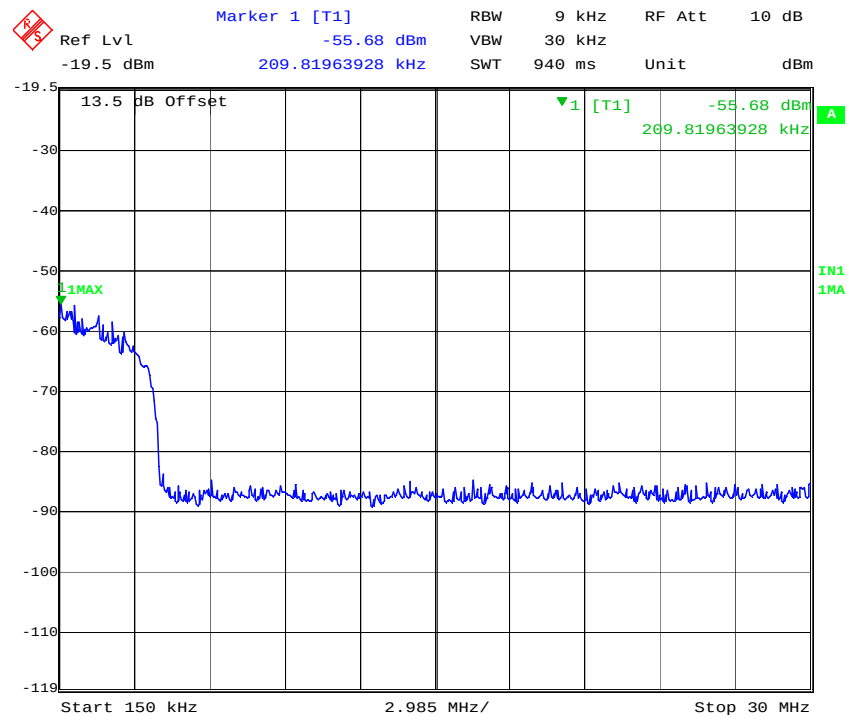


Figure 223: 5MHz, 17dBi, High Channel: Peak Emission from 150 kHz to 30 MHz at Ch. 1

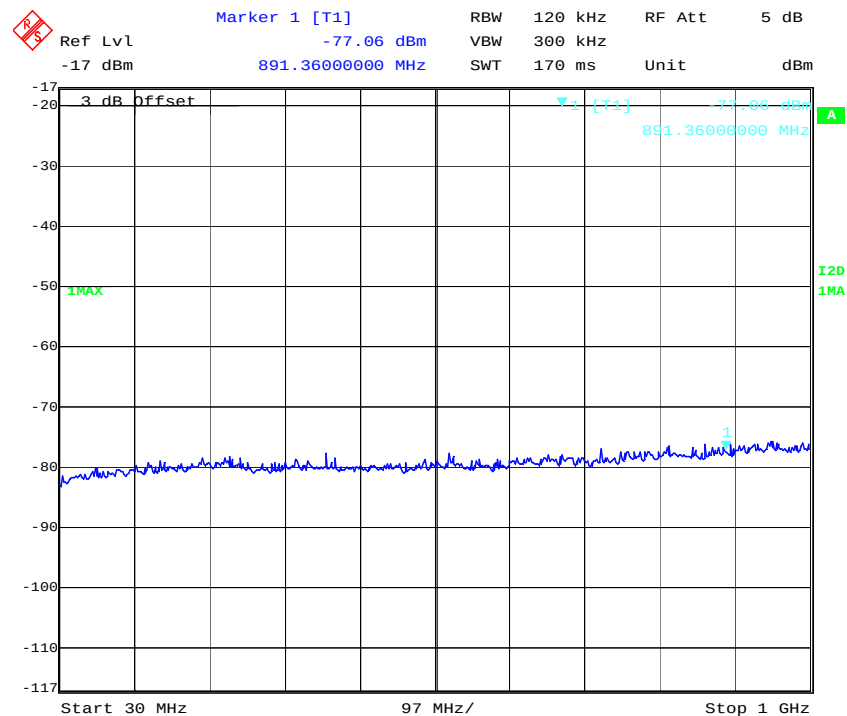


Figure 224: 5MHz, 17dBi, High Channel: Peak Emission from 30 MHz to 1 GHz at Ch. 1

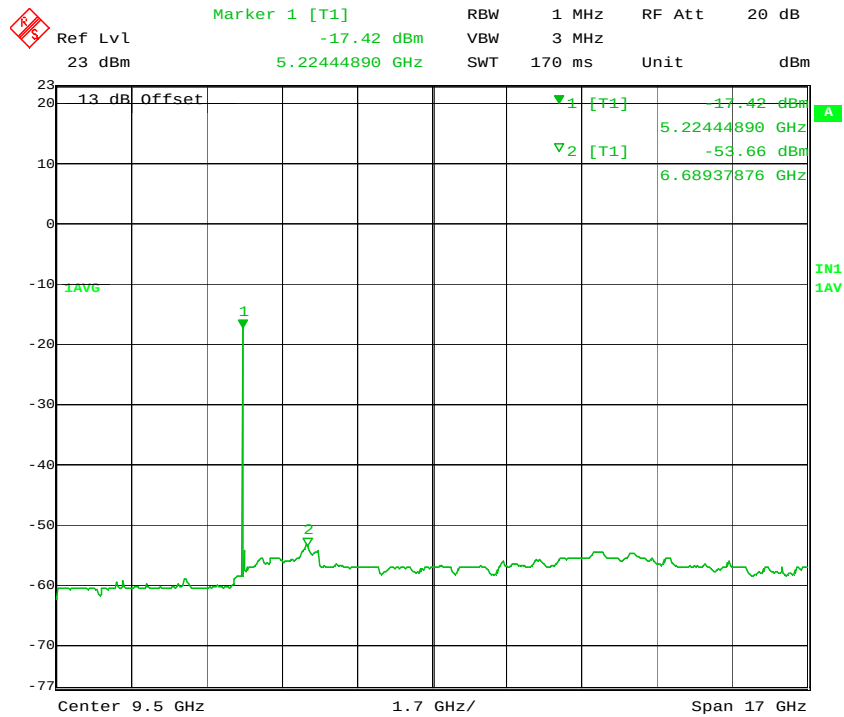


Figure 225: 5MHz, 17dBi, High Channel: Average Emission from 1 GHz to 18 GHz at Ch. 1

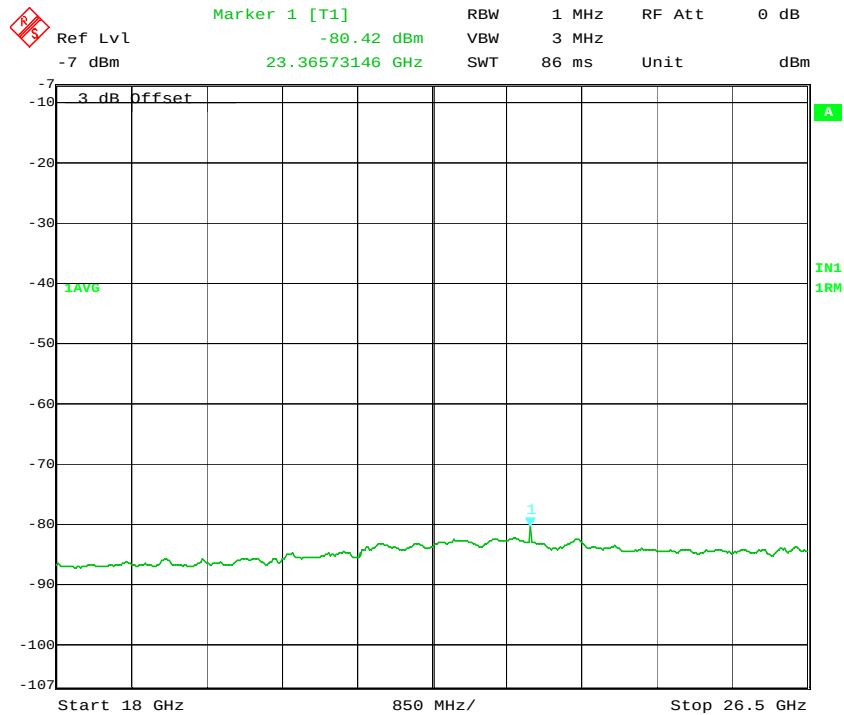


Figure 226: 5MHz, 17dBi, High Channel: Average Emission from 18 GHz to 26.5 GHz at Ch. 1

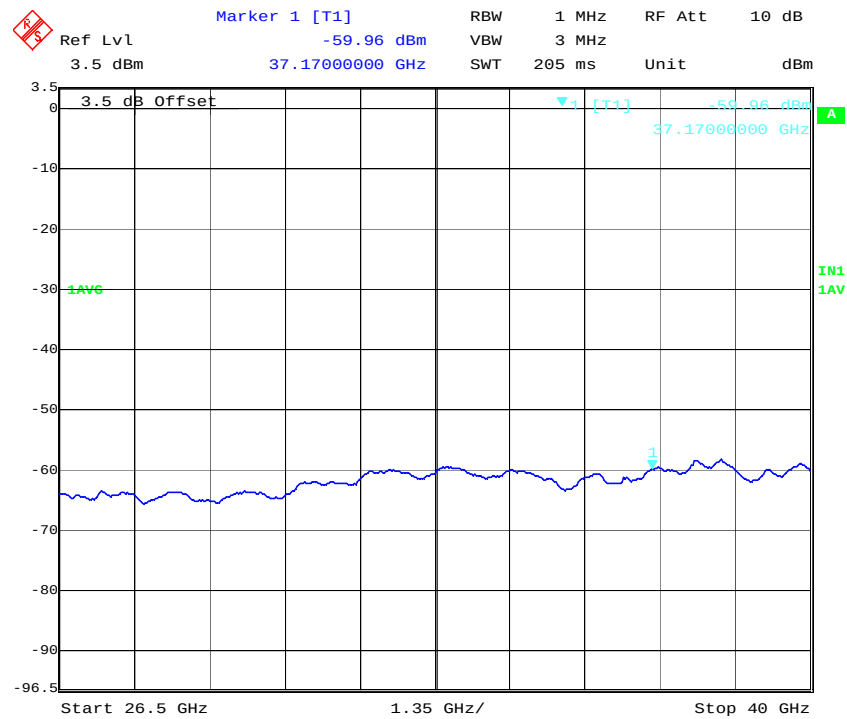


Figure 227: 5MHz, 17dBi, High Channel: Average Emission from 26.5 GHz to 40 GHz at Ch. 1

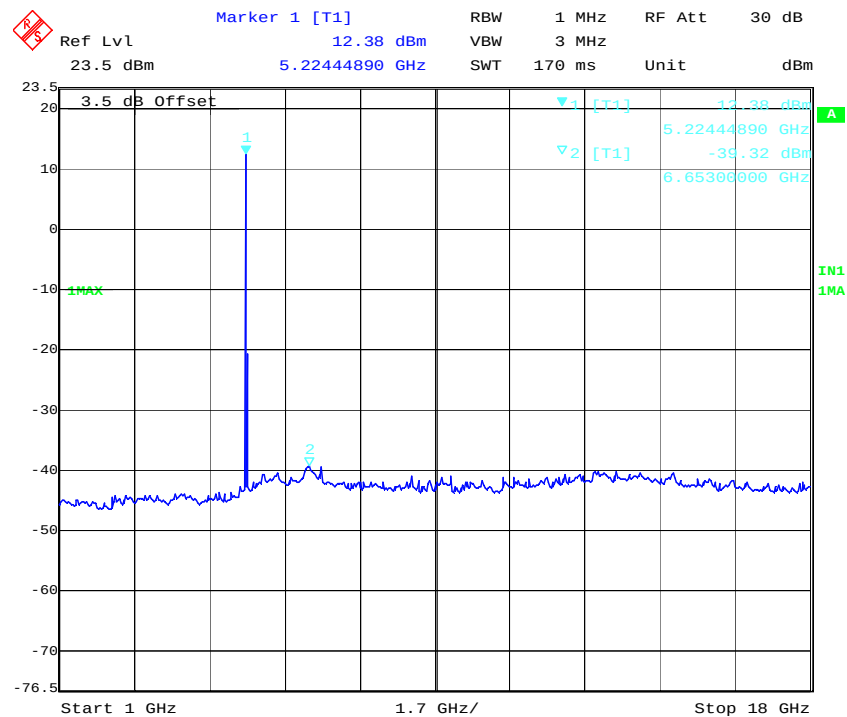


Figure 228: 5MHz, 17dBi, High Channel: Peak Emission from 1 GHz to 18 GHz at Ch. 1

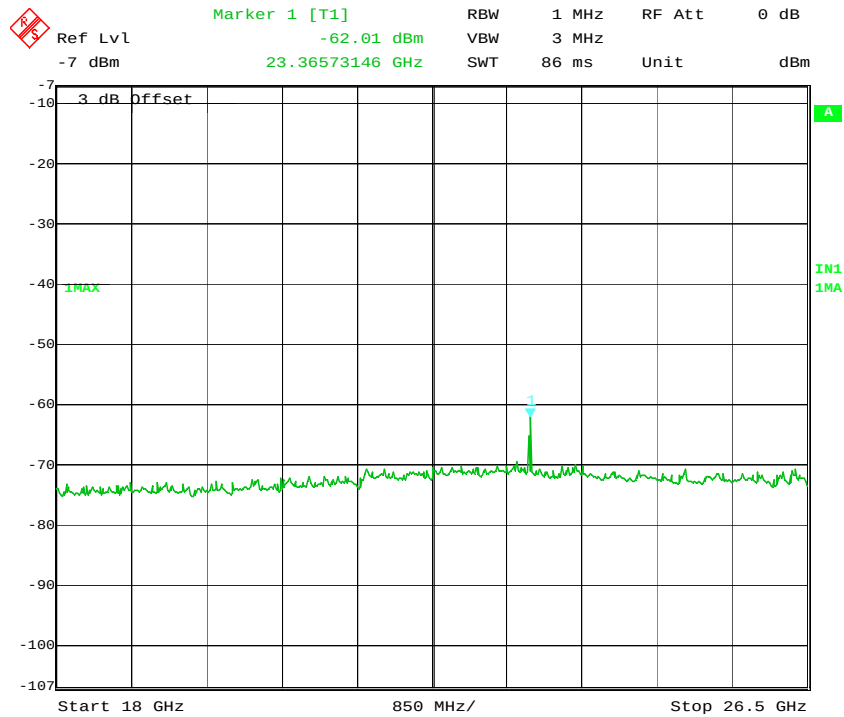


Figure 229: 5MHz, 17dBi, High Channel: Peak Emission from 18 GHz to 26.5 GHz at Ch. 1

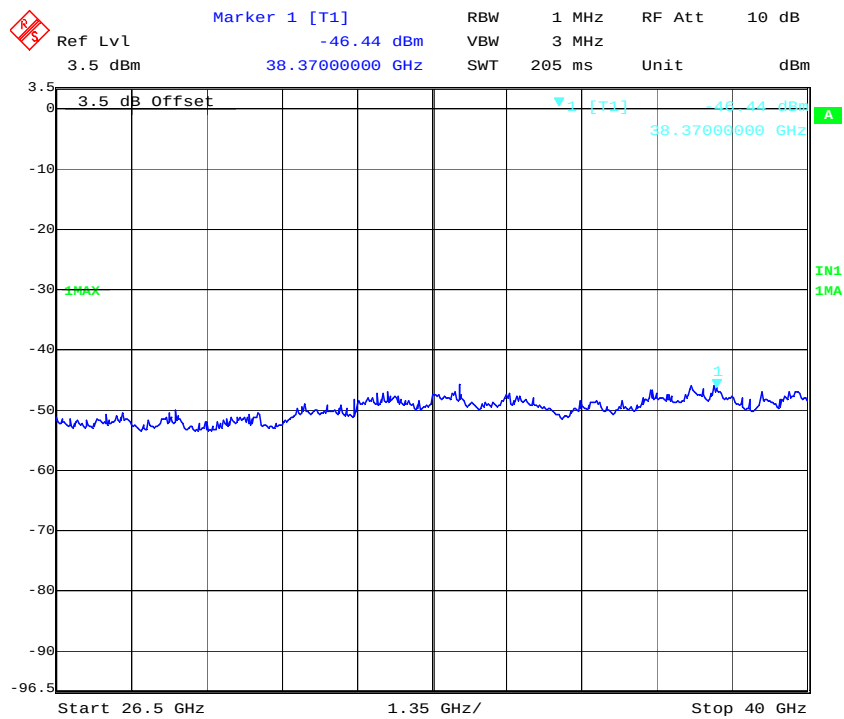


Figure 230: 5MHz, 17dBi, High Channel: Peak Emission from 26.5 GHz to 40 GHz at Ch. 1

5.3.5.5.10 5 MHz MODULATION BANDWIDTH, 6 dBi POWER, LOW CHANNEL - 5115 MHz

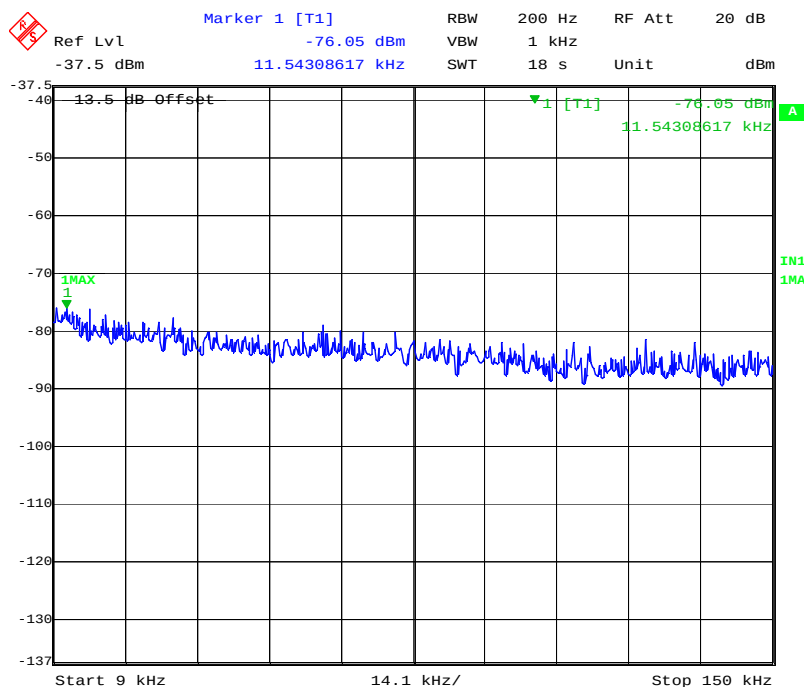


Figure 231: 5MHz, 6dBi, Low Channel: Peak Emission from 9 kHz to 150 kHz at Ch. 0

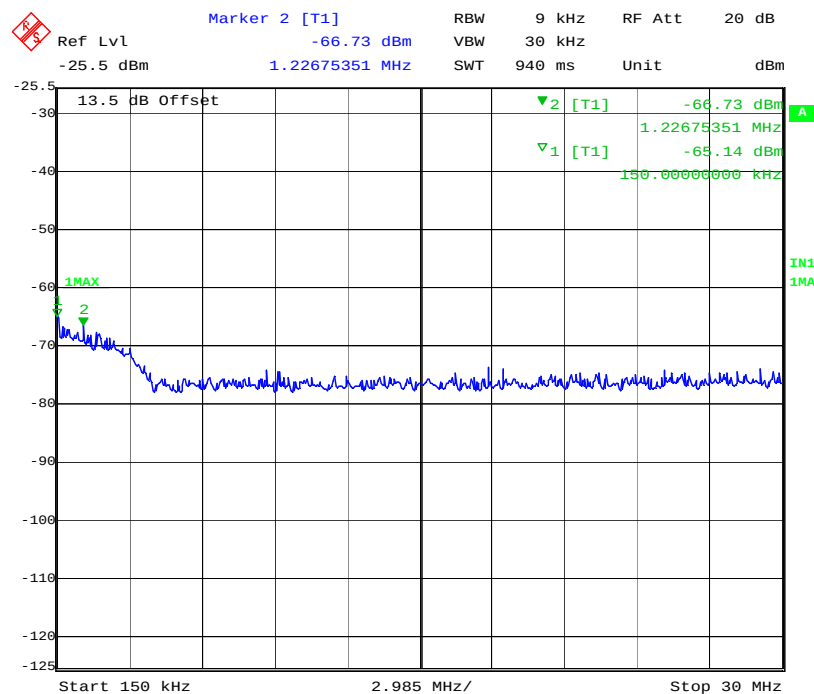


Figure 232: 5MHz, 6dBi, Low Channel: Peak Emission from 150 kHz to 30 MHz at Ch. 0

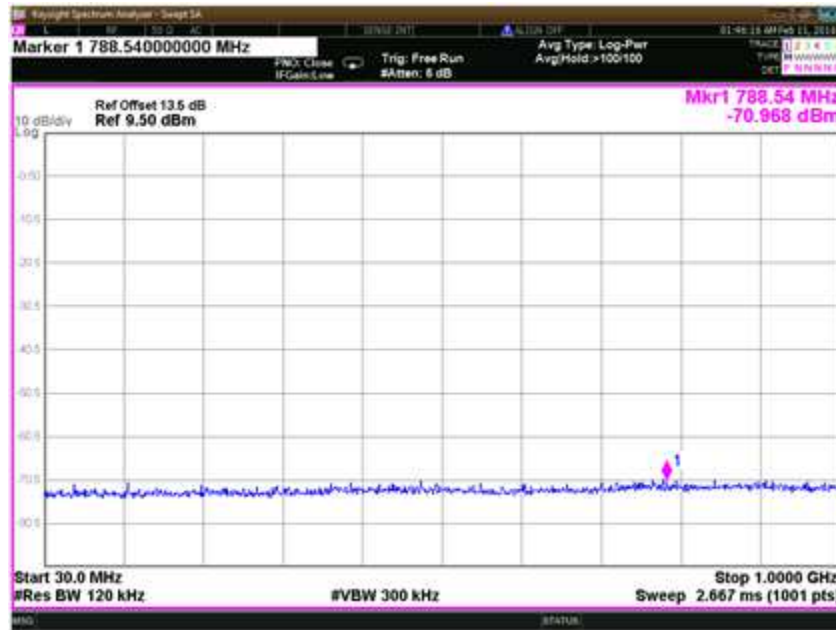


Figure 233: 5MHz, 6dBi, Low Channel: Peak Emission from 30 MHz to 1 GHz at Ch. 0

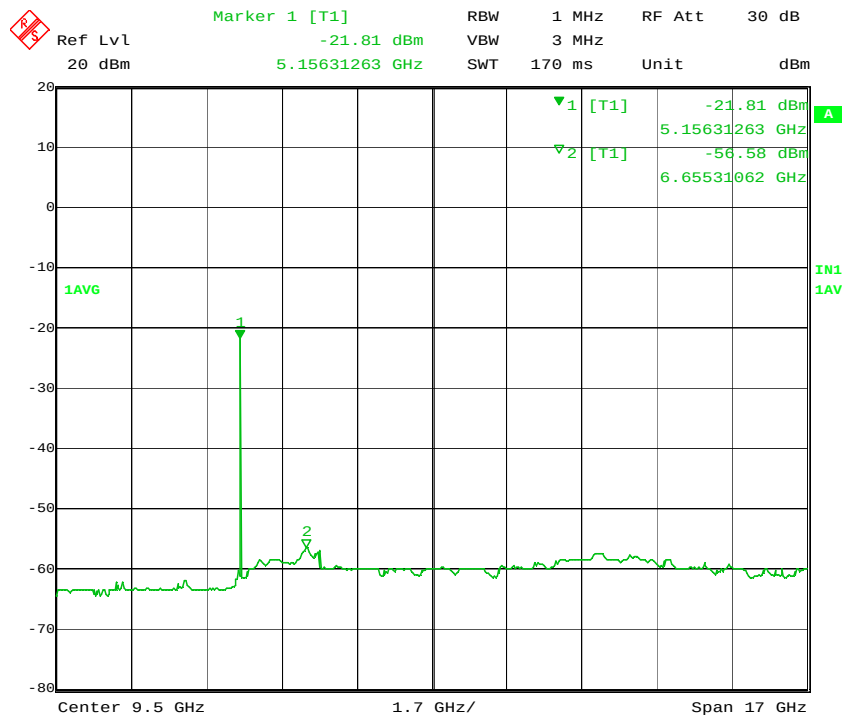


Figure 234: 5MHz, 6dBi, Low Channel: Average Emission from 1 GHz to 18 GHz at Ch. 0

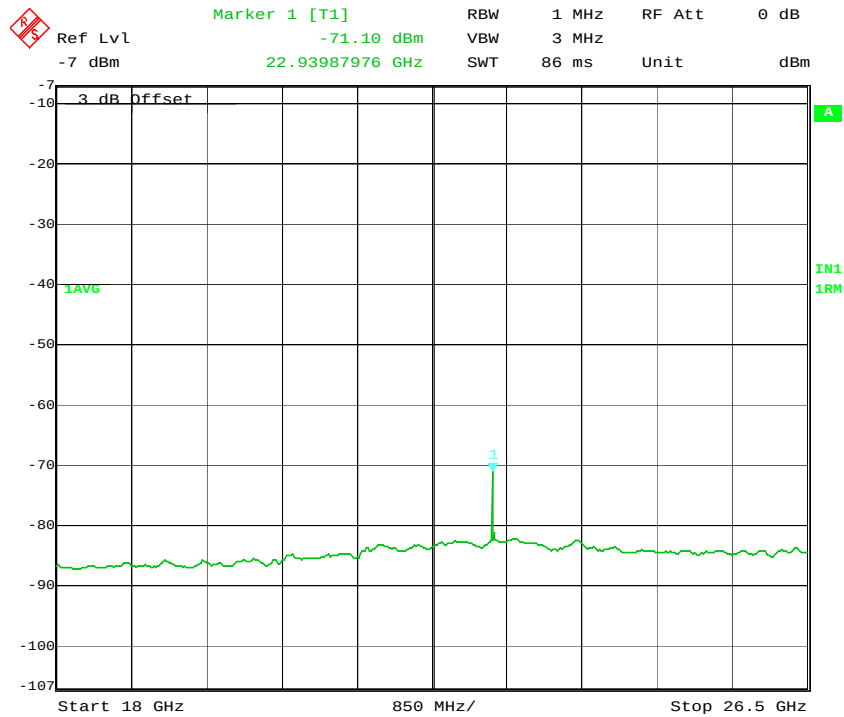


Figure 235: 5MHz, 6dBi, Low Channel: Average Emission from 18 GHz to 26.5 GHz at Ch. 0

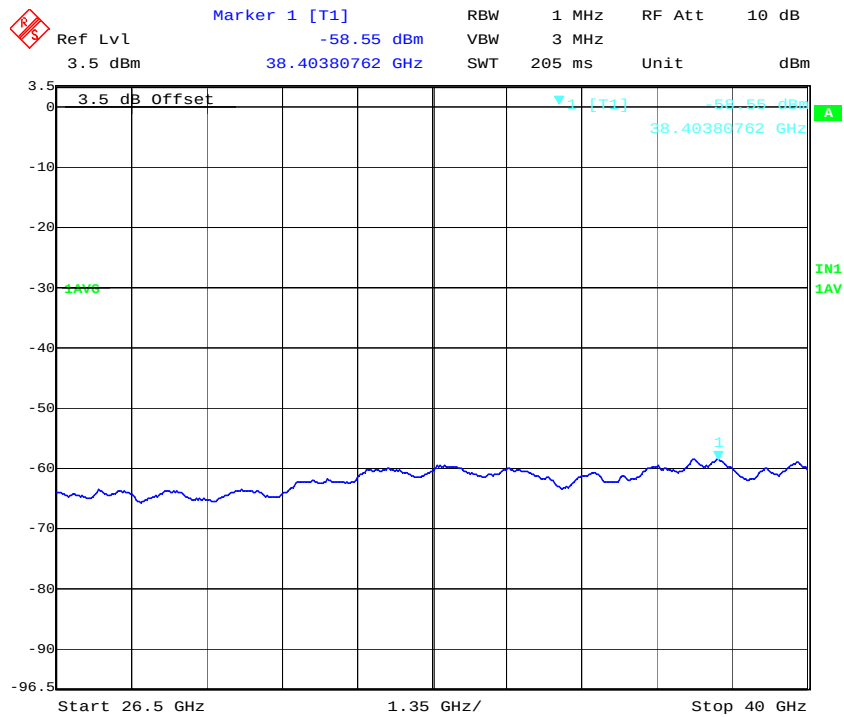


Figure 236: 5MHz, 6dBi, Low Channel: Average Emission from 26.5 GHz to 40 GHz at Ch. 0

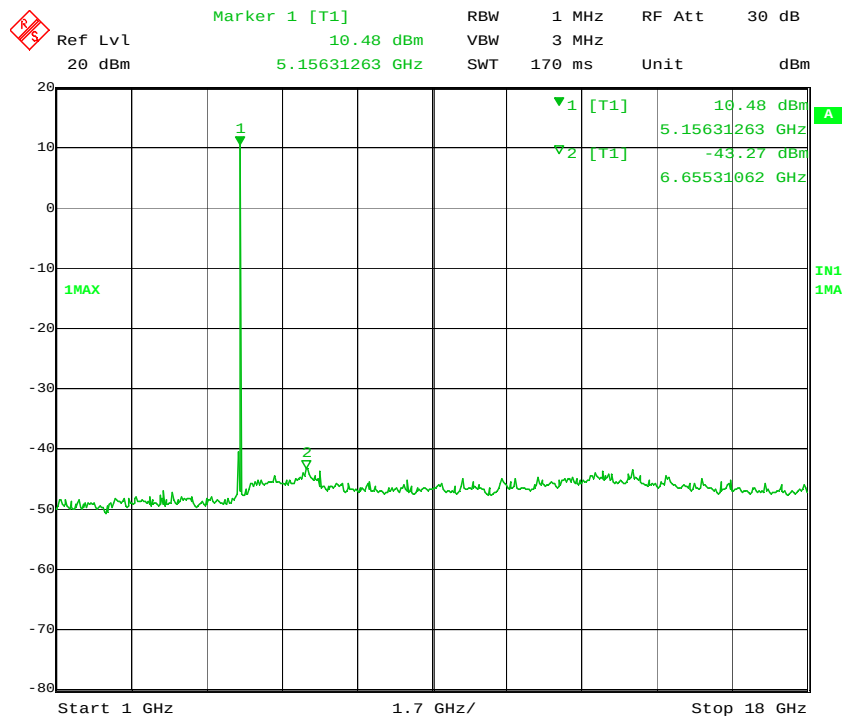


Figure 237: 5MHz, 6dBi, Low Channel: Peak Emission from 1 GHz to 18 GHz at Ch. 0

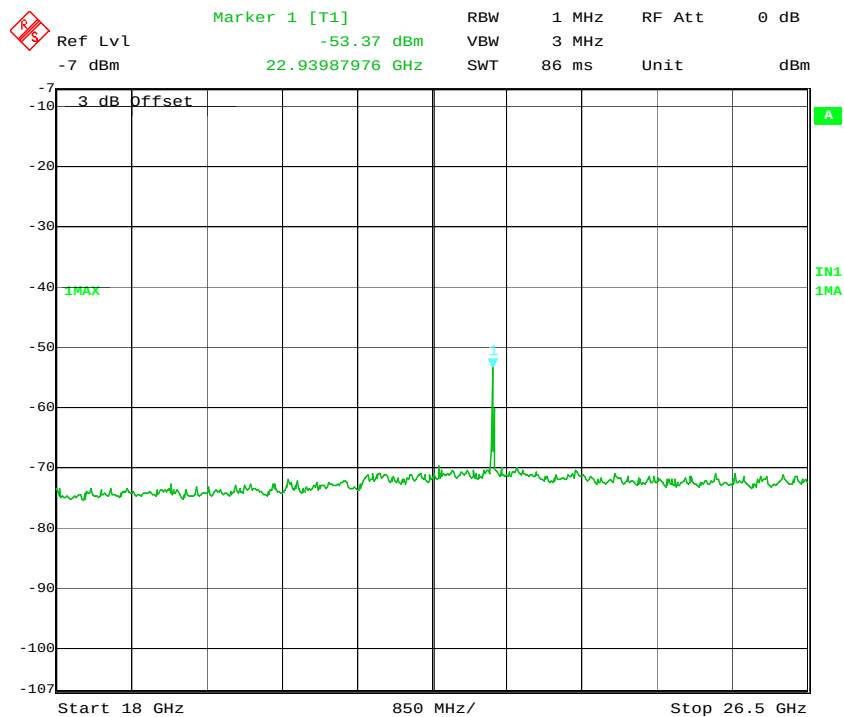


Figure 238: 5MHz, 6dBi, Low Channel: Peak Emission from 18 GHz to 26.5 GHz at Ch. 0

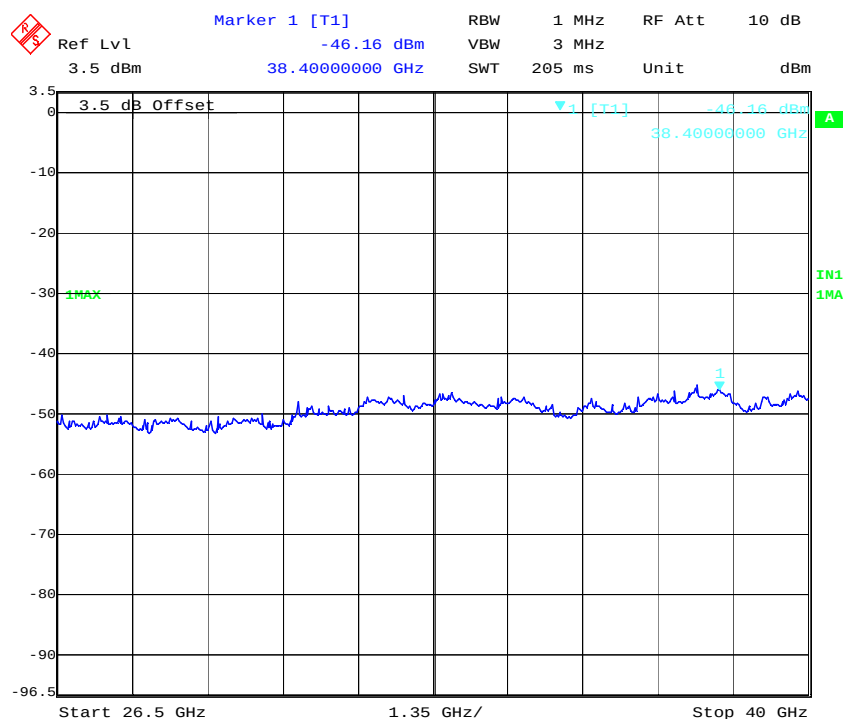


Figure 239: 5MHz, 6dBi, Low Channel: Peak Emission from 26.5 GHz to 40 GHz at Ch. 0

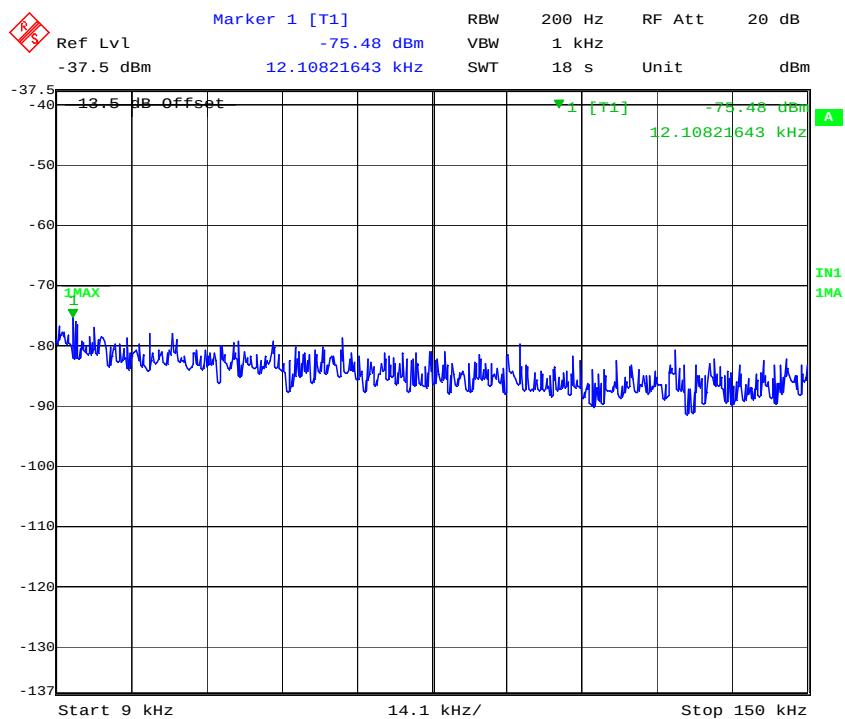


Figure 240: 5MHz, 6dBi, Low Channel: Peak Emission from 9 kHz to 150 kHz at Ch. 1



Figure 241: 5MHz, 6dBi, Low Channel: Peak Emission from 150 kHz to 30 MHz at Ch. 1

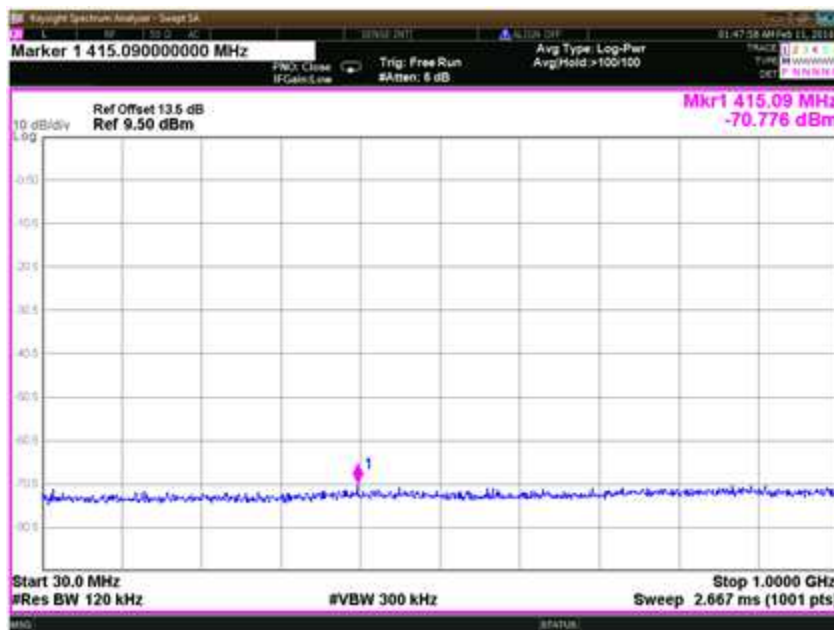


Figure 242: 5MHz, 6dBi, Low Channel: Peak Emission from 30 MHz to 1 GHz at Ch. 1

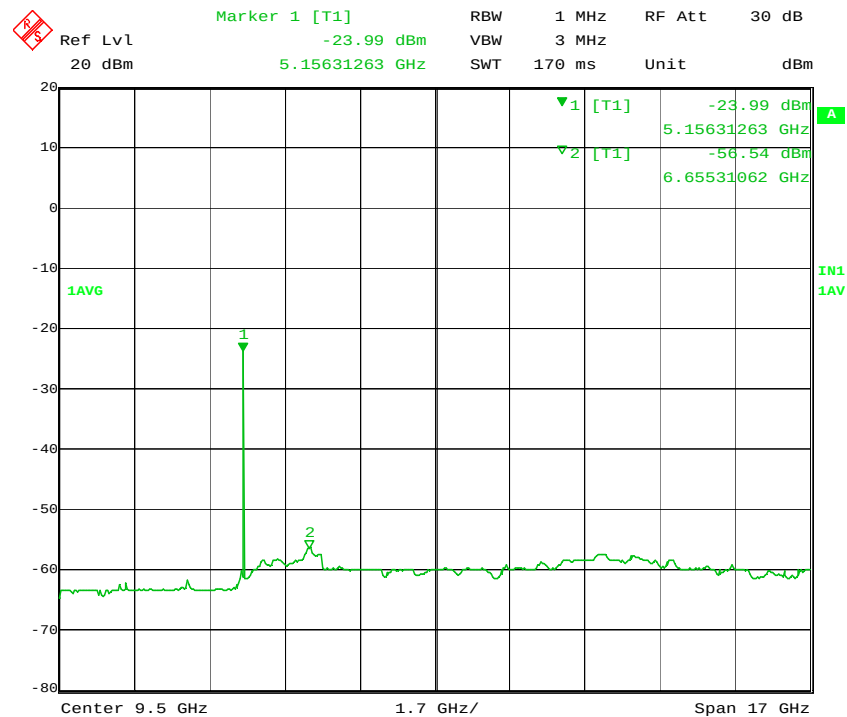


Figure 243: 5MHz, 6dBi, Low Channel: Average Emission from 1 GHz to 18 GHz at Ch. 1

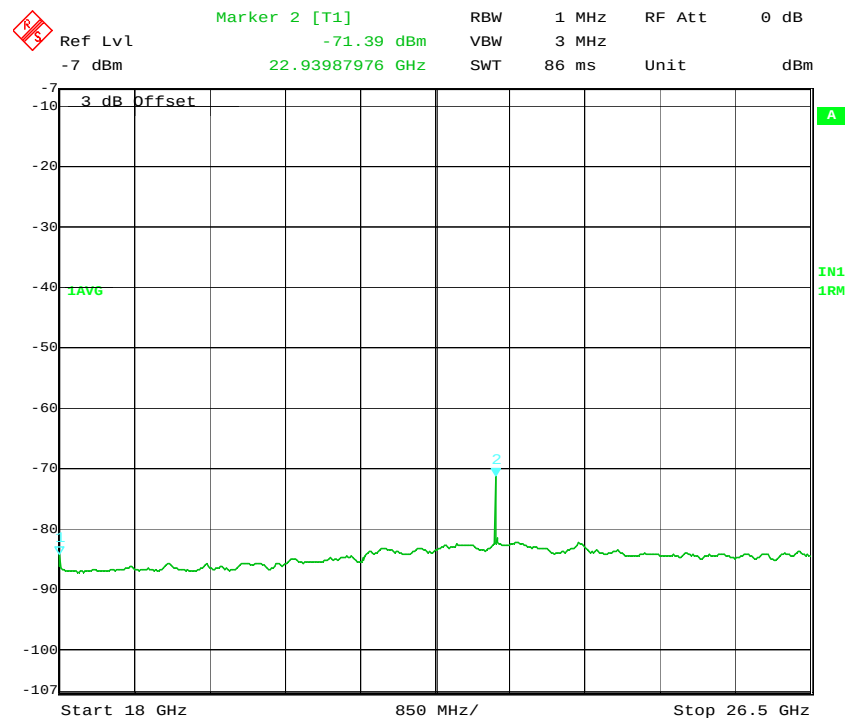


Figure 244: 5MHz, 6dBi, Low Channel: Average Emission from 18 GHz to 26.5 GHz at Ch. 1

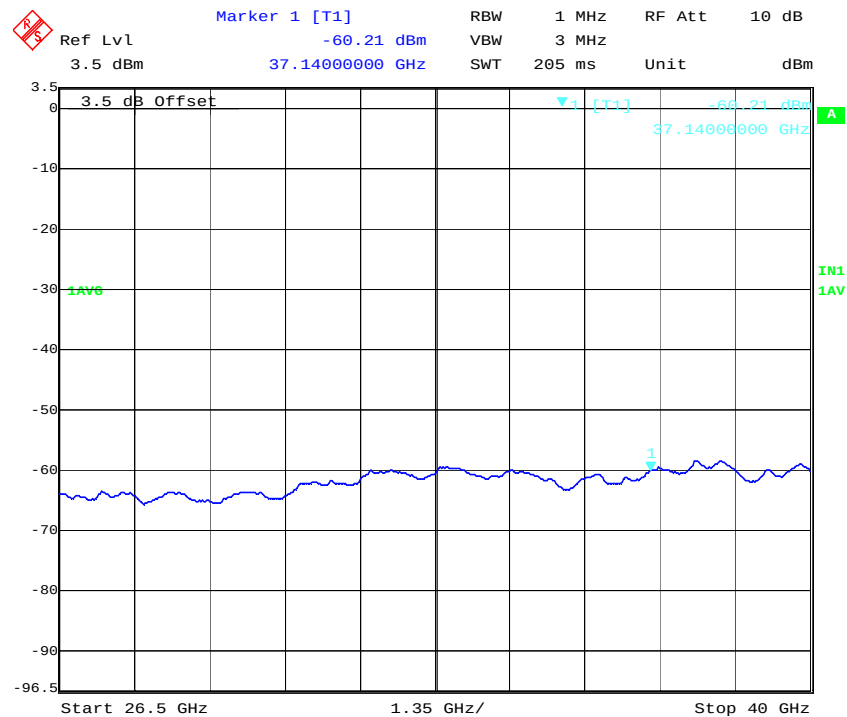


Figure 245: 5MHz, 6dBi, Low Channel: Average Emission from 26.5 GHz to 40 GHz at Ch. 1

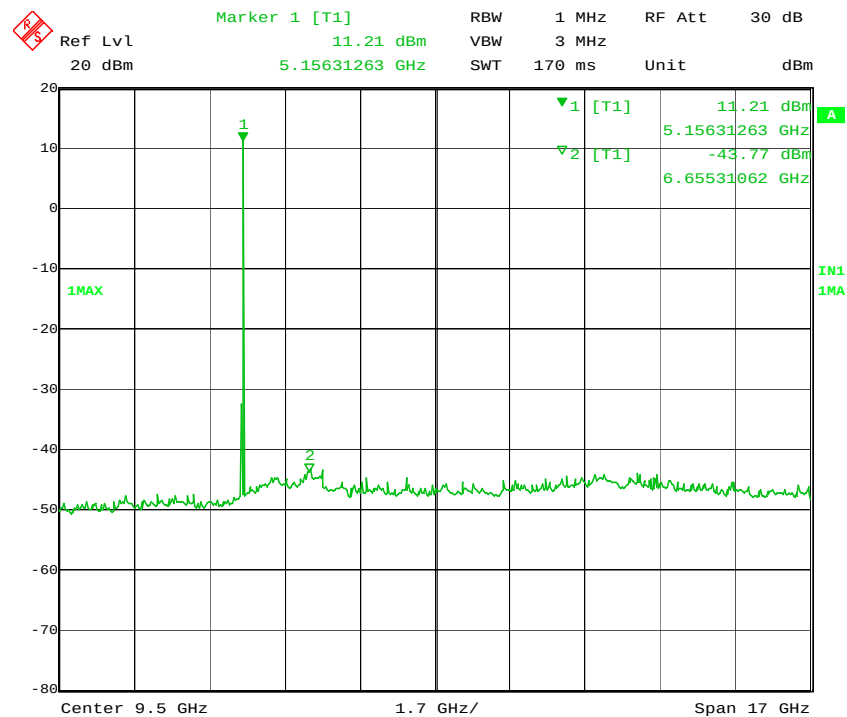


Figure 246: 5MHz, 6dBi, Low Channel: Peak Emission from 1 GHz to 18 GHz at Ch. 1

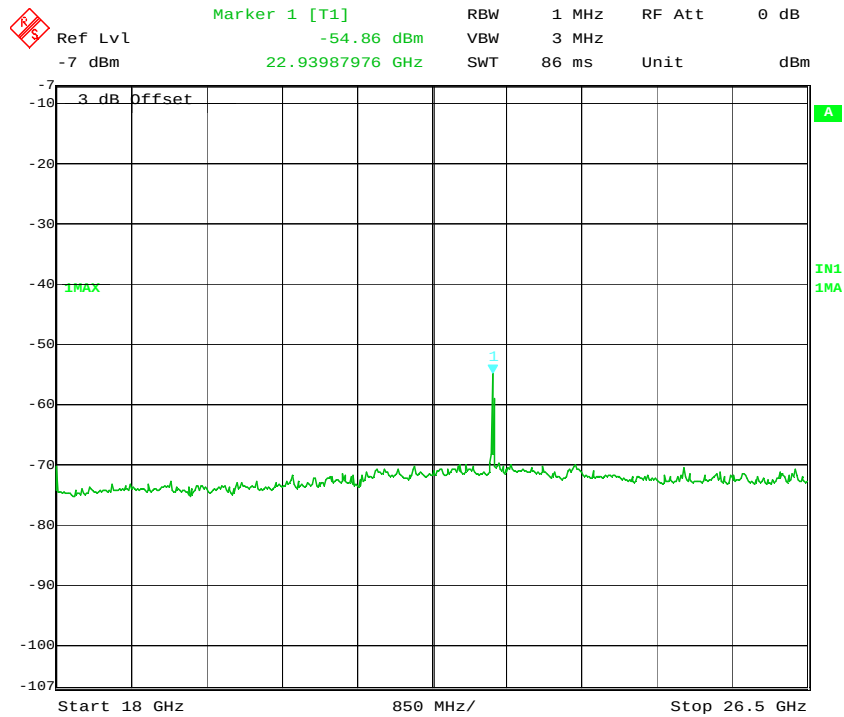


Figure 247: 5MHz, 6dBi, Low Channel: Peak Emission from 18 GHz to 26.5 GHz at Ch. 1

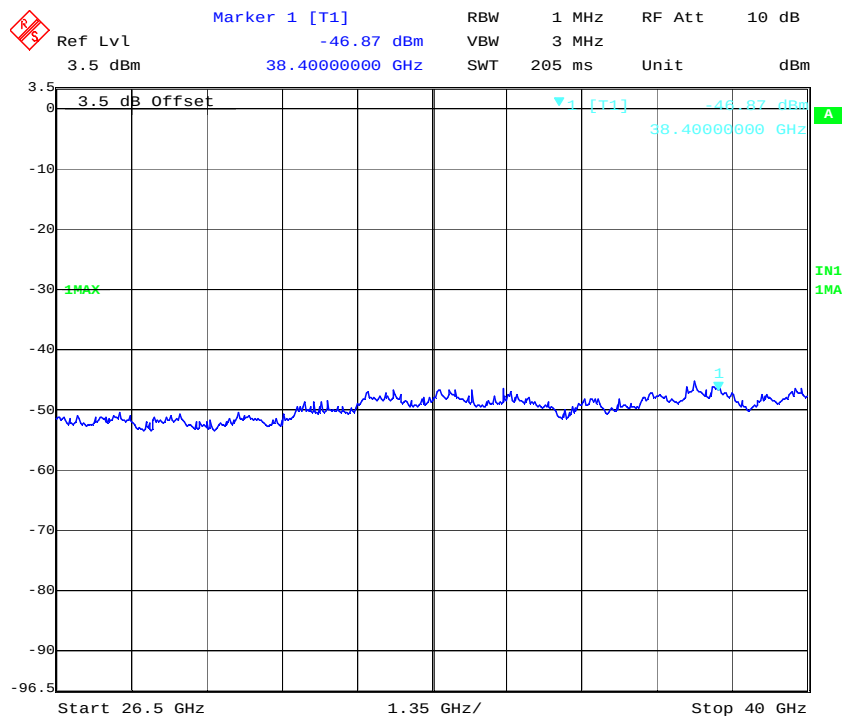


Figure 248: 5MHz, 6dBi, Low Channel: Peak Emission from 26.5 GHz to 40 GHz at Ch. 1

5.3.5.5.11 5 MHz MODULATION BANDWIDTH, 6 dBi POWER, MID CHANNEL - 5200 MHz

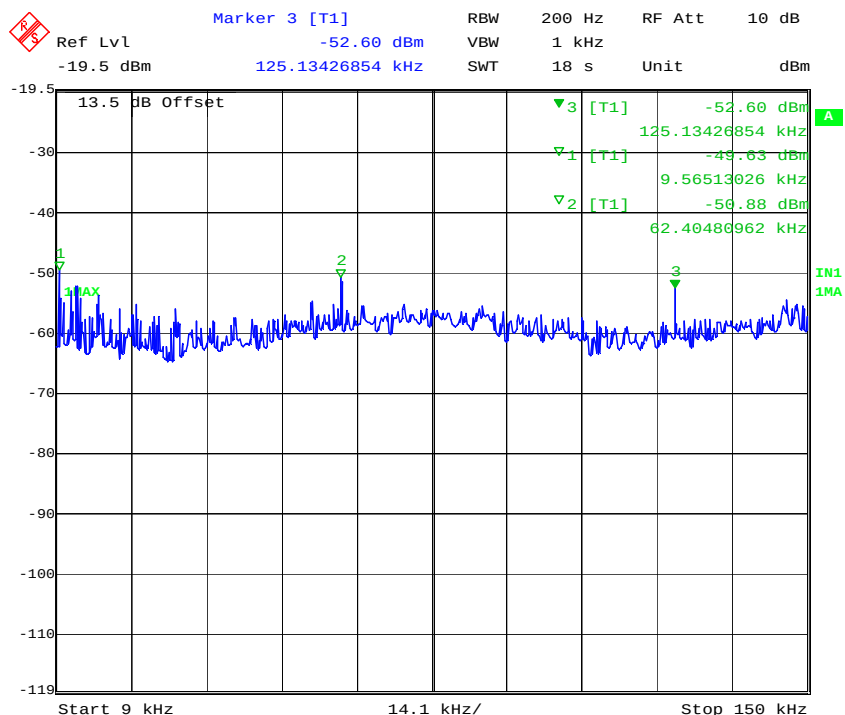


Figure 249: 5MHz, 6dBi, Mid Channel: Peak Emission from 9 kHz to 150 kHz at Ch. 0

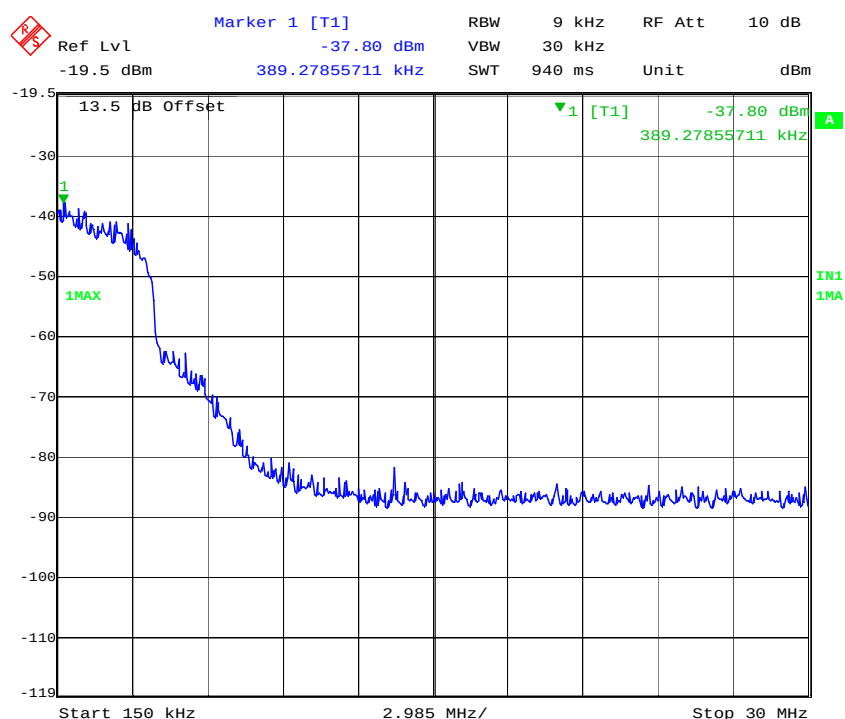


Figure 250: 5MHz, 6dBi, Mid Channel: Peak Emission from 150 kHz to 30 MHz at Ch. 0

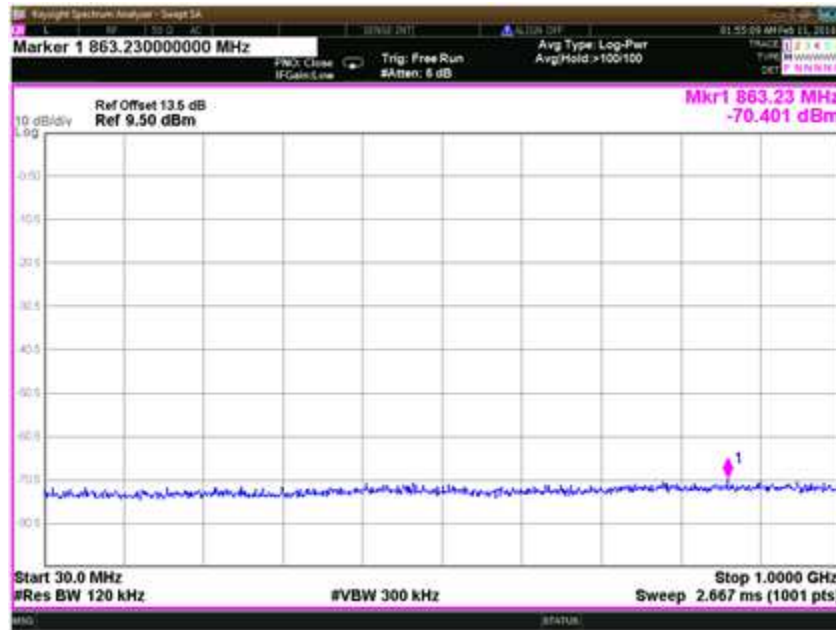


Figure 251: 5MHz, 6dBi, Mid Channel: Peak Emission from 30 MHz to 1 GHz at Ch. 0



Figure 252: 5MHz, 6dBi, Mid Channel: Average Emission from 1 GHz to 18 GHz at Ch. 0

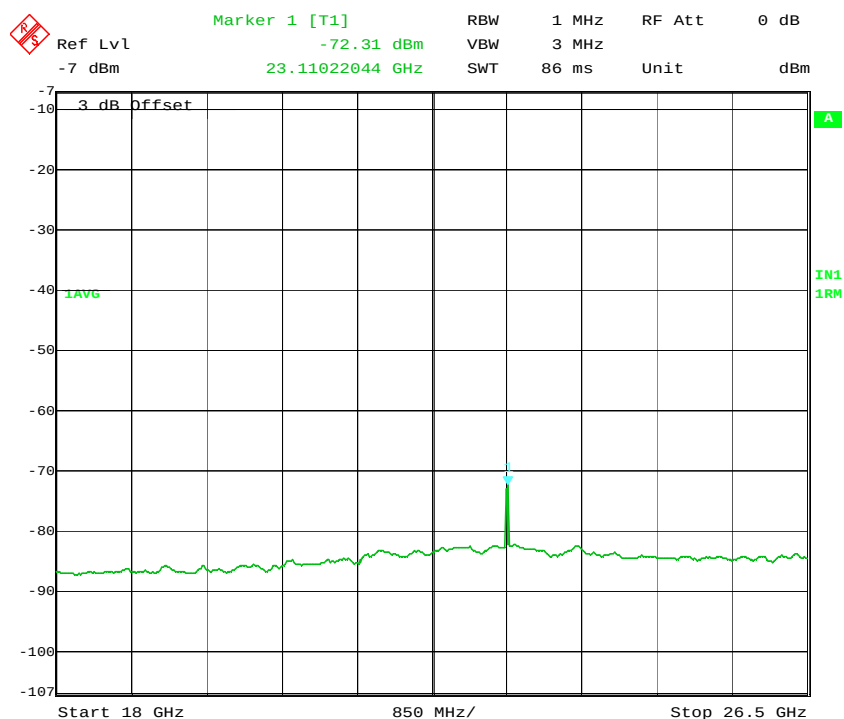


Figure 253: 5MHz, 6dBi, Mid Channel: Average Emission from 18 GHz to 26.5 GHz at Ch. 0

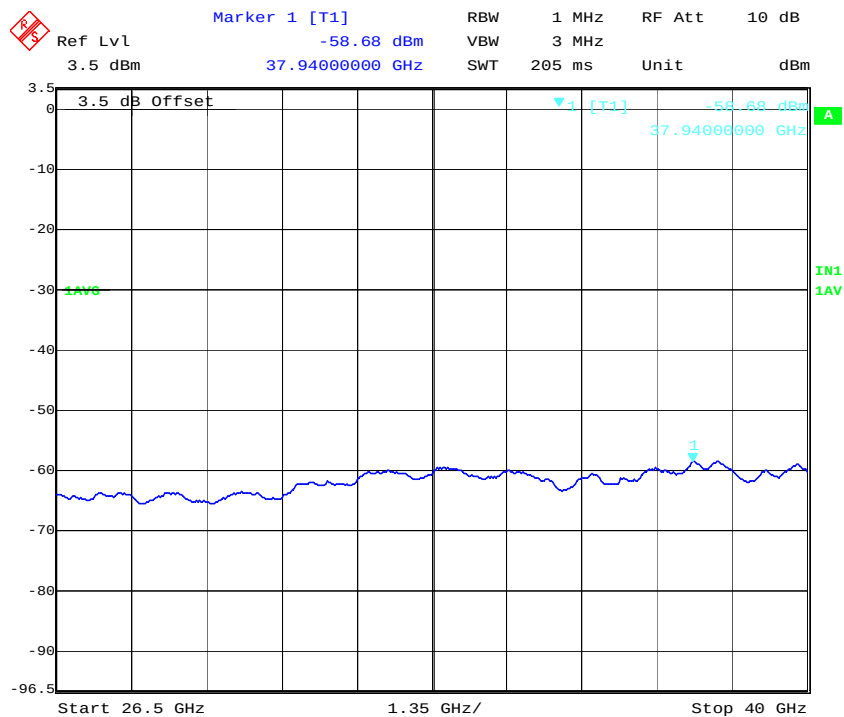


Figure 254: 5MHz, 6dBi, Mid Channel: Average Emission from 26.5 GHz to 40 GHz at Ch. 0

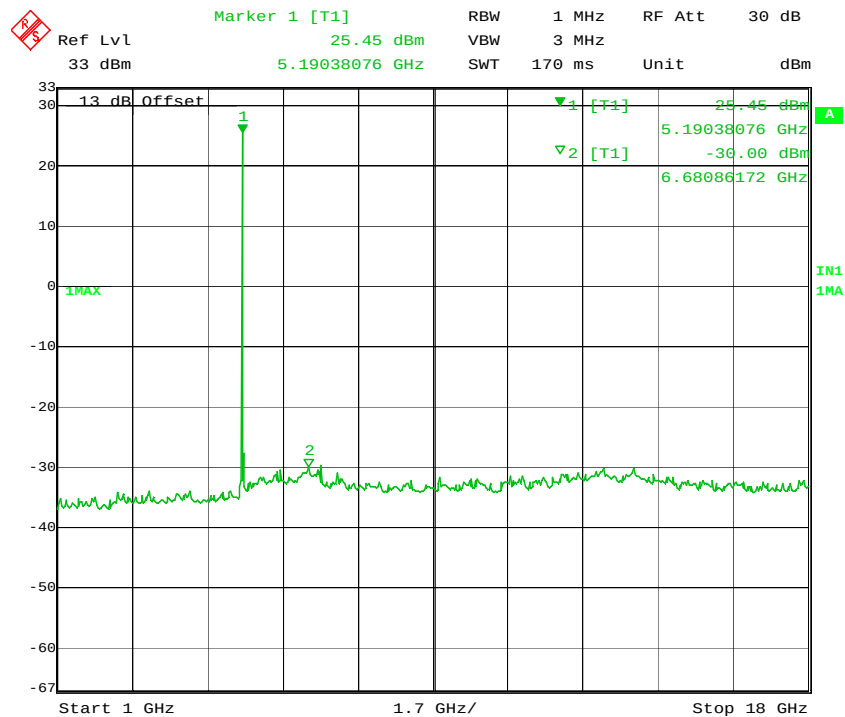


Figure 255: 5MHz, 6dBi, Mid Channel: Peak Emission from 1 GHz to 18 GHz at Ch. 0

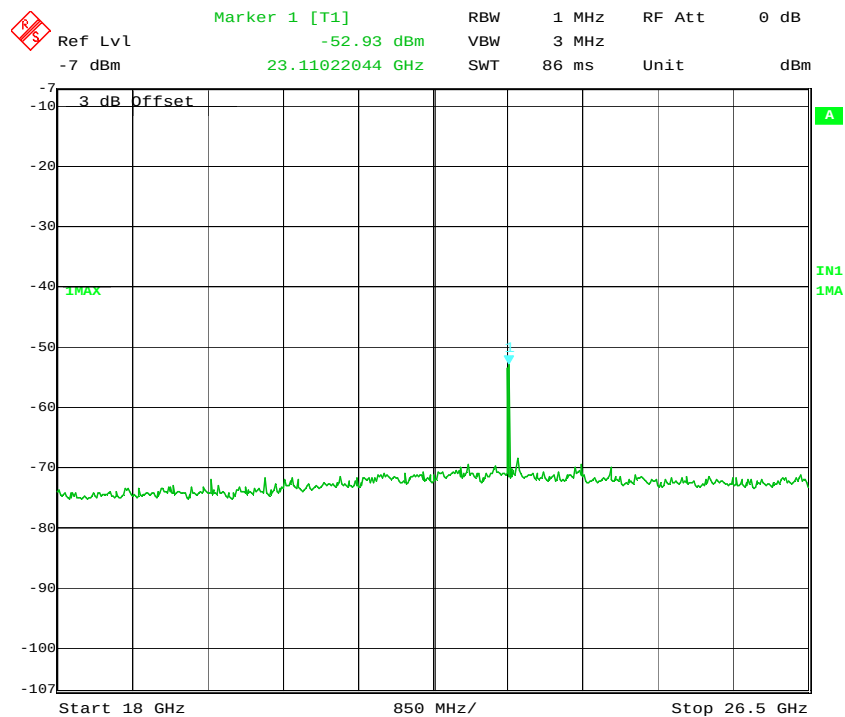


Figure 256: 5MHz, 6dBi, Mid Channel: Peak Emission from 18 GHz to 26.5 GHz at Ch. 0

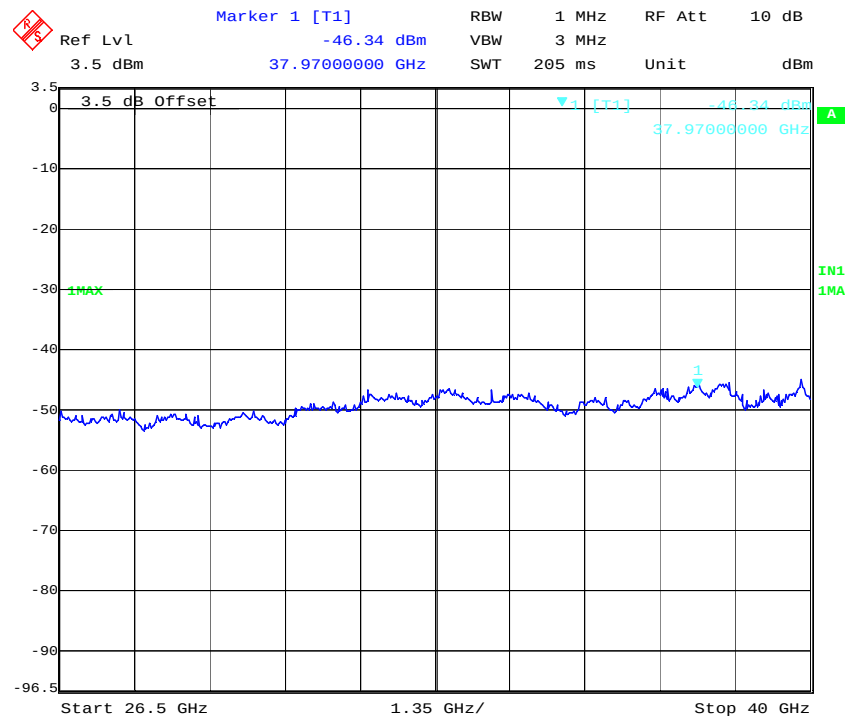


Figure 257: 5MHz, 6dBi, Mid Channel: Peak Emission from 26.5 GHz to 40 GHz at Ch. 0

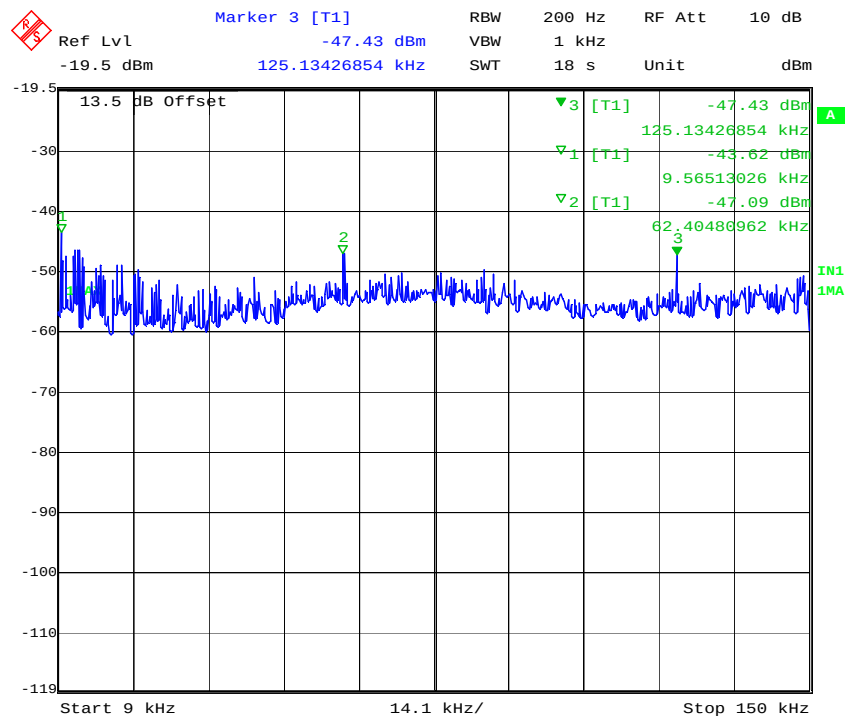


Figure 258: 5MHz, 6dBi, Mid Channel: Peak Emission from 9 kHz to 150 kHz at Ch. 1

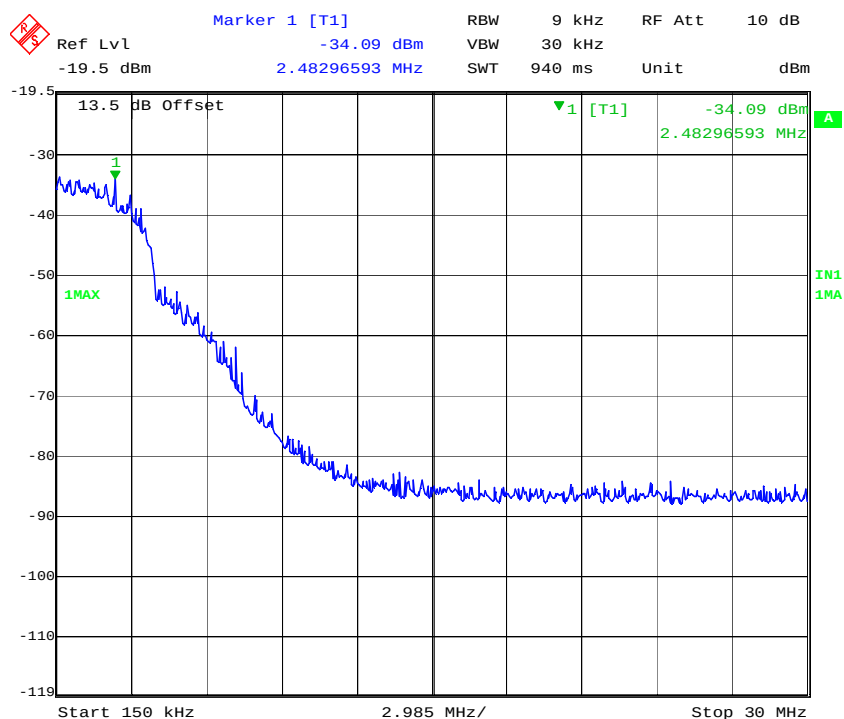


Figure 259: 5MHz, 6dBi, Mid Channel: Peak Emission from 150 kHz to 30 MHz at Ch. 1



Figure 260: 5MHz, 6dBi, Mid Channel: Peak Emission from 30 MHz to 1 GHz at Ch. 1

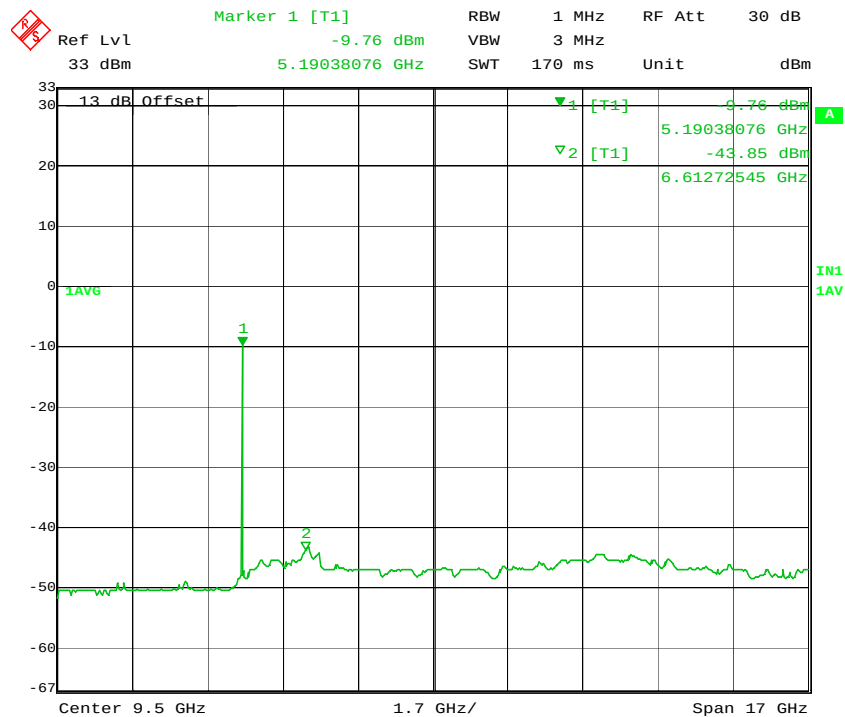


Figure 261: 5MHz, 6dBi, Mid Channel: Average Emission from 1 GHz to 18 GHz at Ch. 1

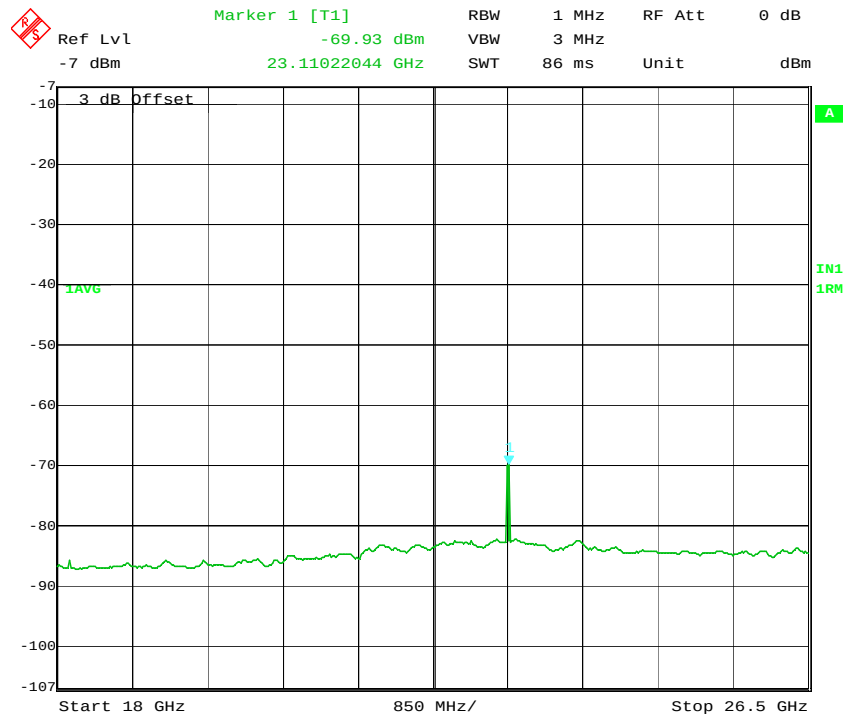


Figure 262: 5MHz, 6dBi, Mid Channel: Average Emission from 18 GHz to 26.5 GHz at Ch. 1

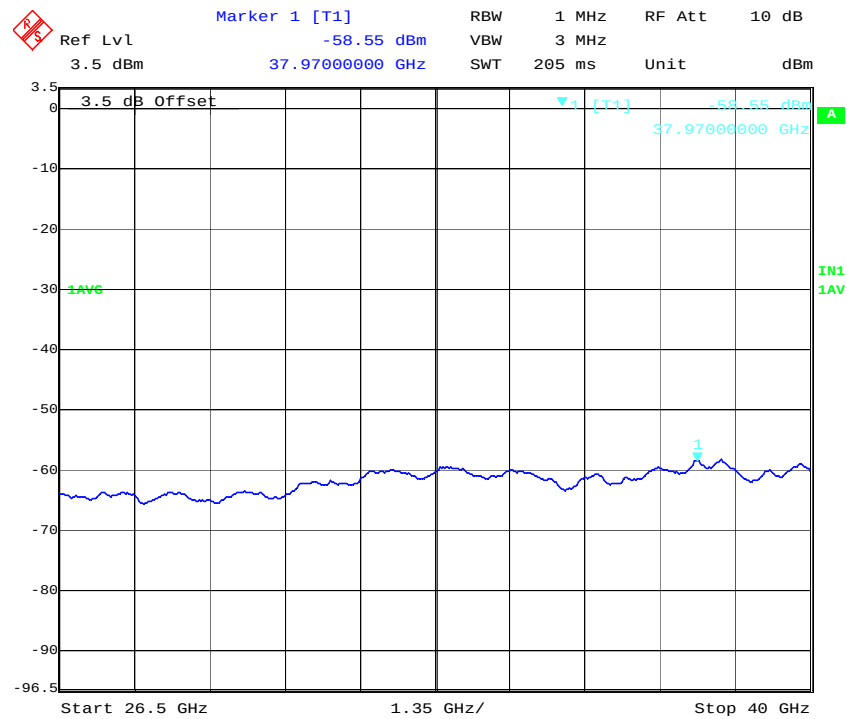


Figure 263: 5MHz, 6dBi, Mid Channel: Average Emission from 26.5 GHz to 40 GHz at Ch. 1

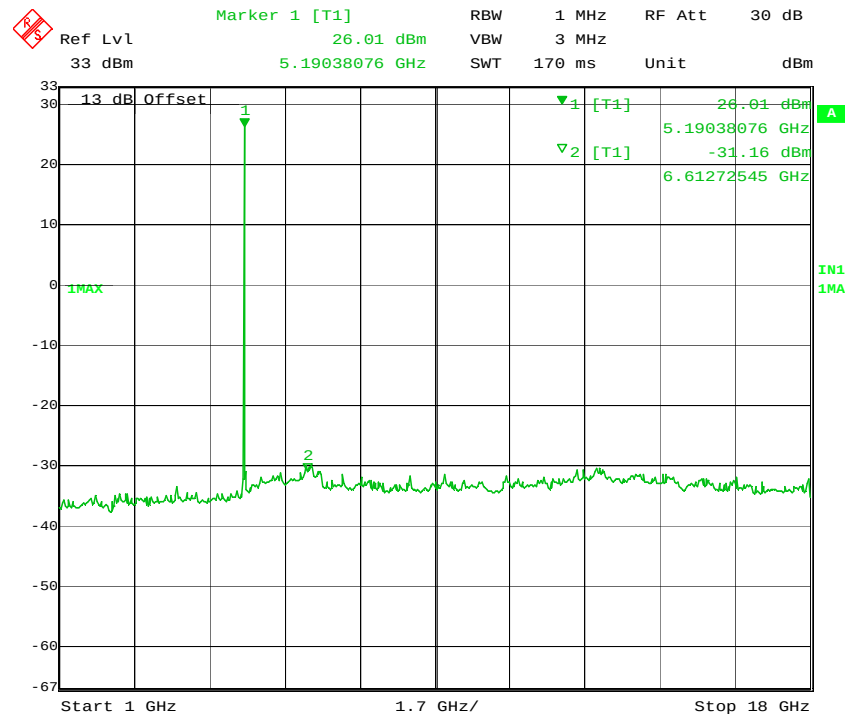


Figure 264: 5MHz, 6dBi, Mid Channel: Peak Emission from 1 GHz to 18 GHz at Ch. 1

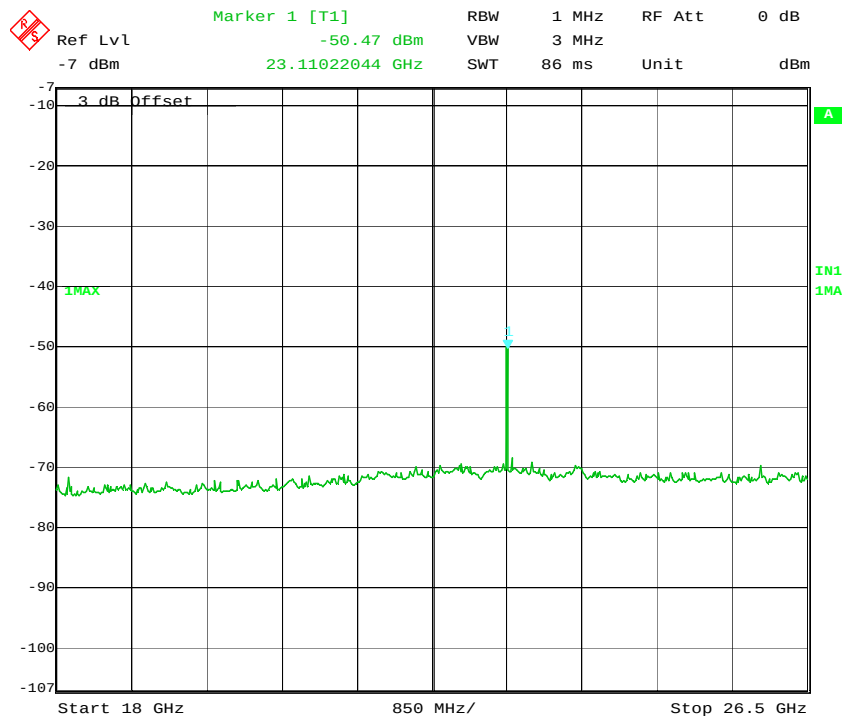


Figure 265: 5MHz, 6dBi, Mid Channel: Peak Emission from 18 GHz to 26.5 GHz at Ch. 1

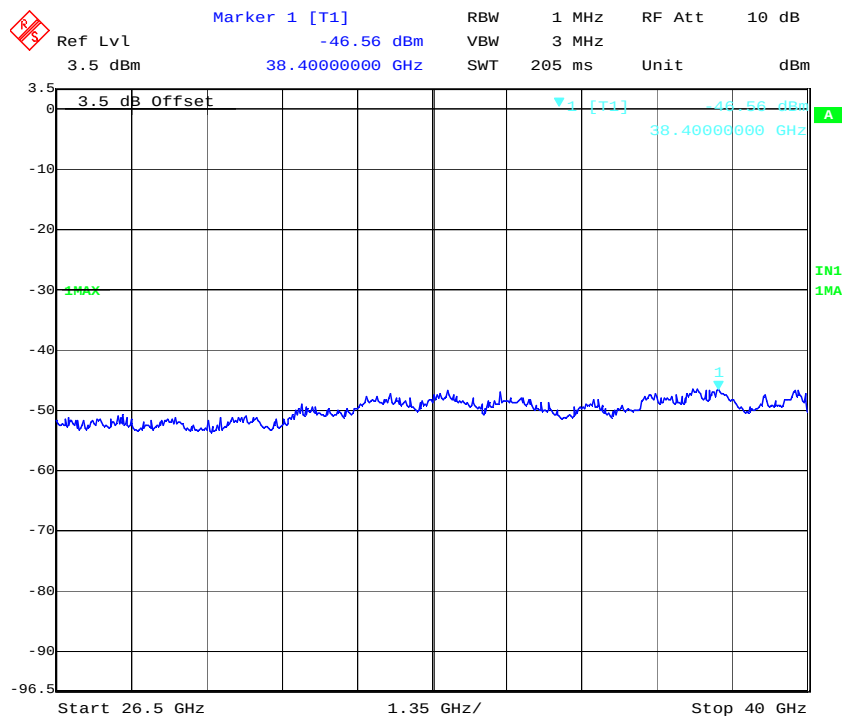


Figure 266: 5MHz, 6dBi, Mid Channel: Peak Emission from 26.5 GHz to 40 GHz at Ch. 1

5.3.5.5.12 5 MHz MODULATION BANDWIDTH, 6 dBi POWER, HIGH CHANNEL - 5245 MHz

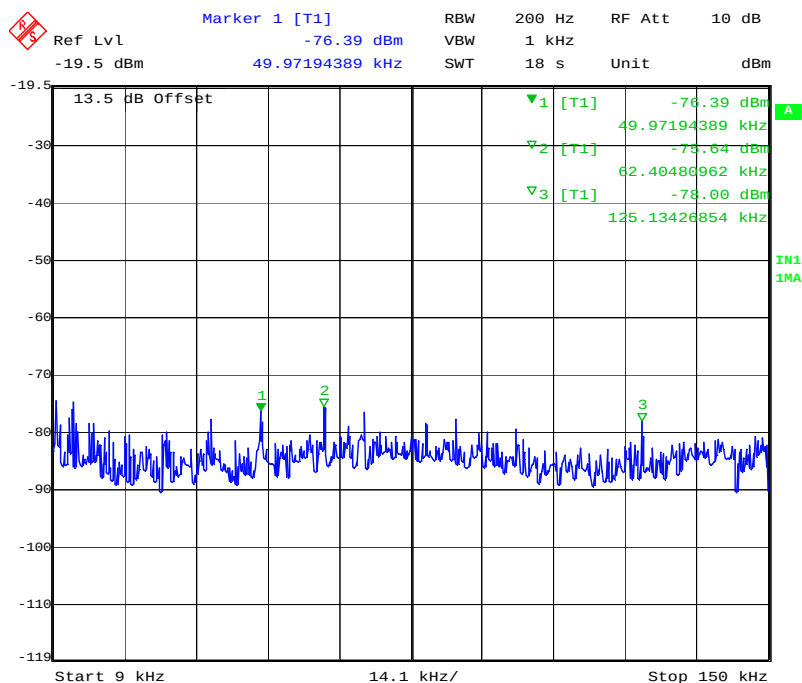


Figure 267: 5MHz, 6dBi, High Channel: Peak Emission from 9 kHz to 150 kHz at Ch. 0

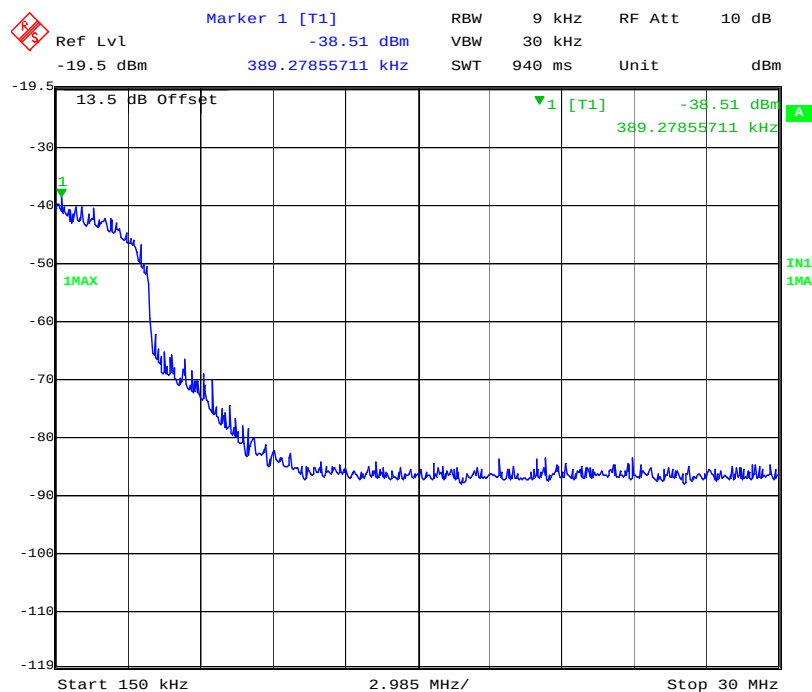


Figure 268: 5MHz, 6dBi, High Channel: Peak Emission from 150 kHz to 30 MHz at Ch. 0

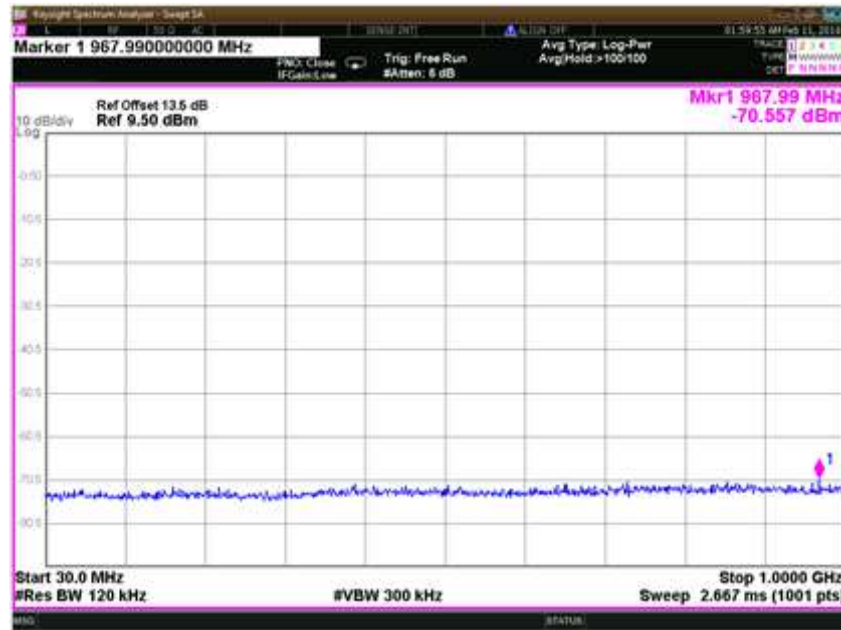


Figure 269: 5MHz, 6dBi, High Channel: Peak Emission from 30 MHz to 1 GHz at Ch. 0

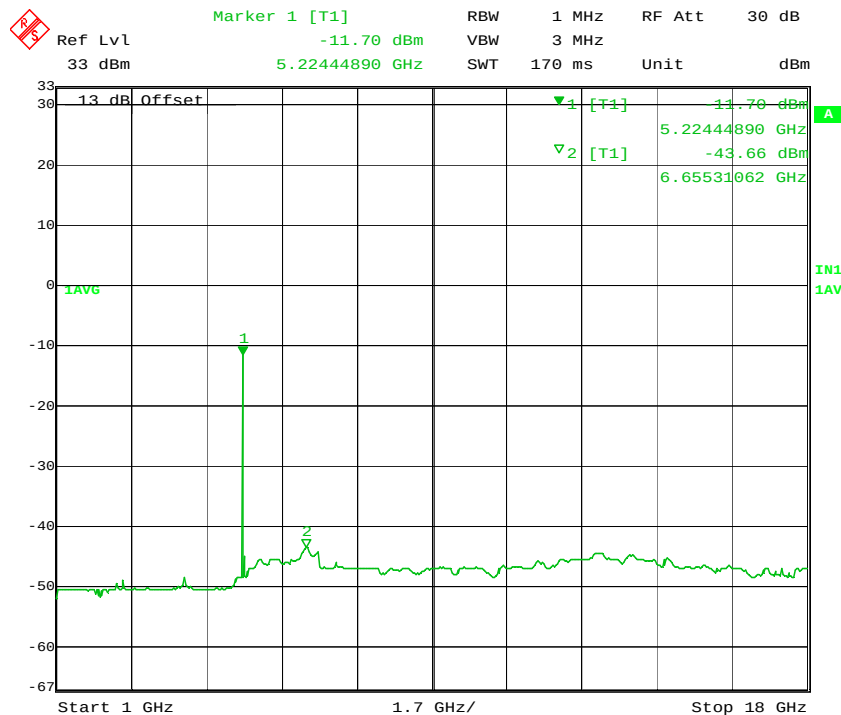


Figure 270: 5MHz, 6dBi, High Channel: Average Emission from 1 GHz to 18 GHz at Ch. 0

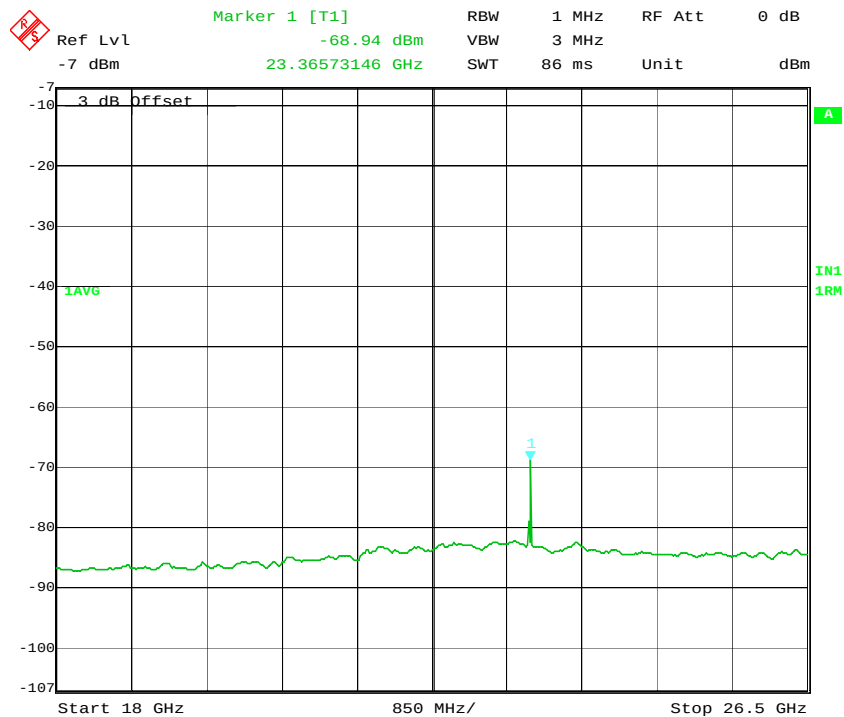


Figure 271: 5MHz, 6dBi, High Channel: Average Emission from 18 GHz to 26.5 GHz at Ch. 0

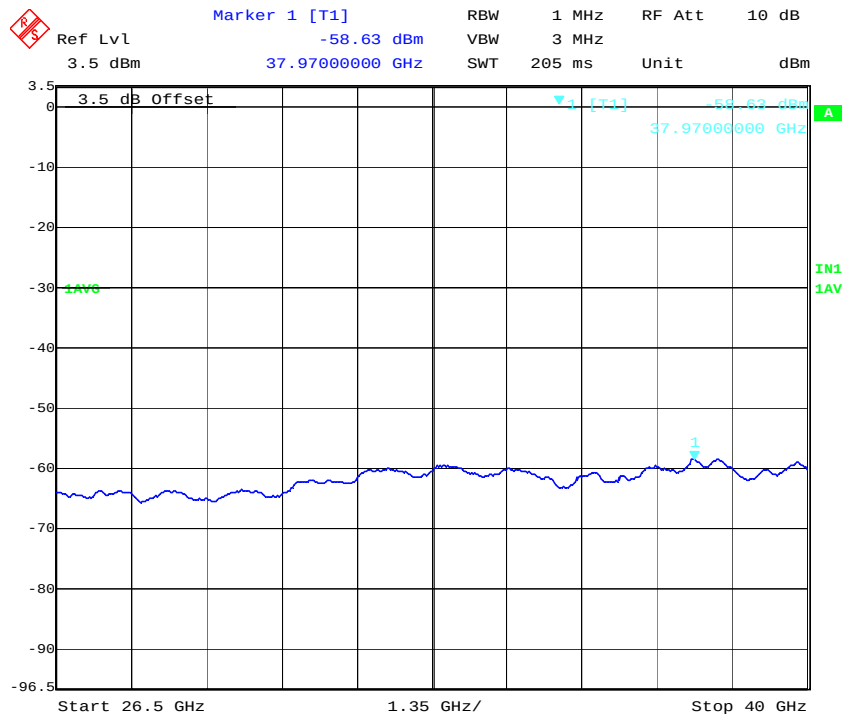


Figure 272: 5MHz, 6dBi, High Channel: Average Emission from 26.5 GHz to 40 GHz at Ch. 0

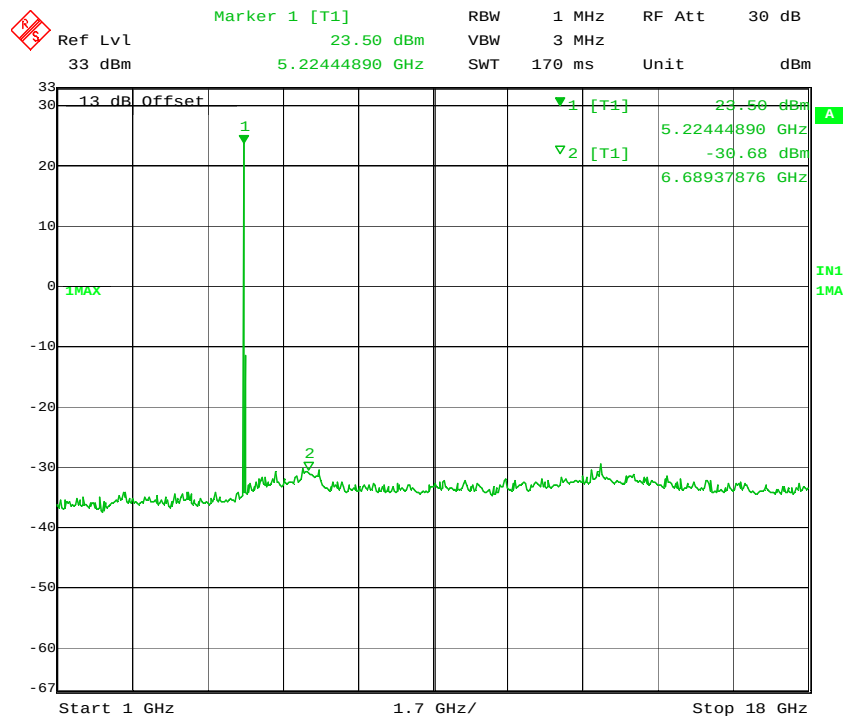


Figure 273: 5MHz, 6dBi, High Channel: Peak Emission from 1 GHz to 18 GHz at Ch. 0

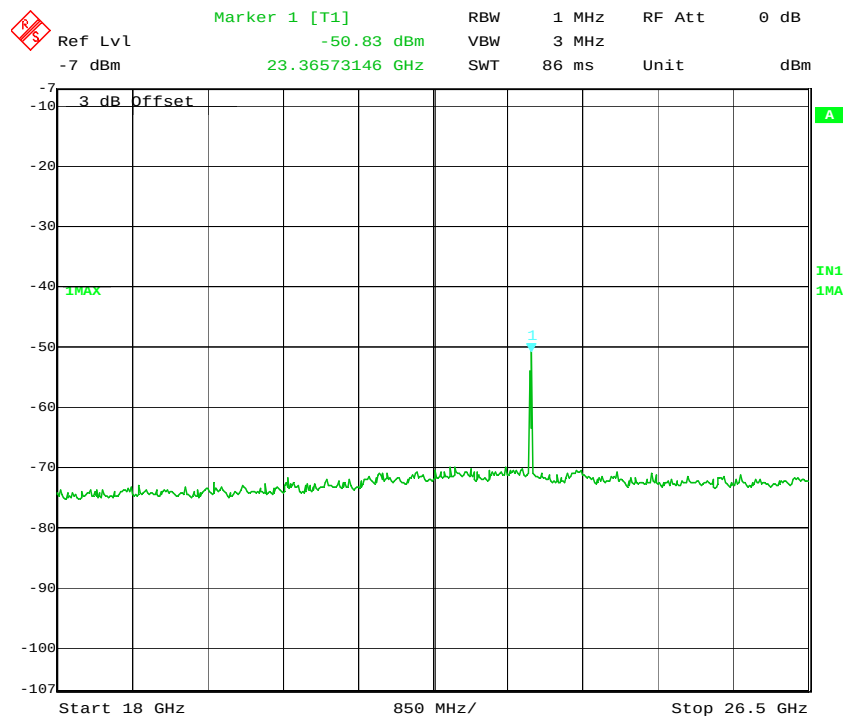


Figure 274: 5MHz, 6dBi, High Channel: Peak Emission from 18 GHz to 26.5 GHz at Ch. 0

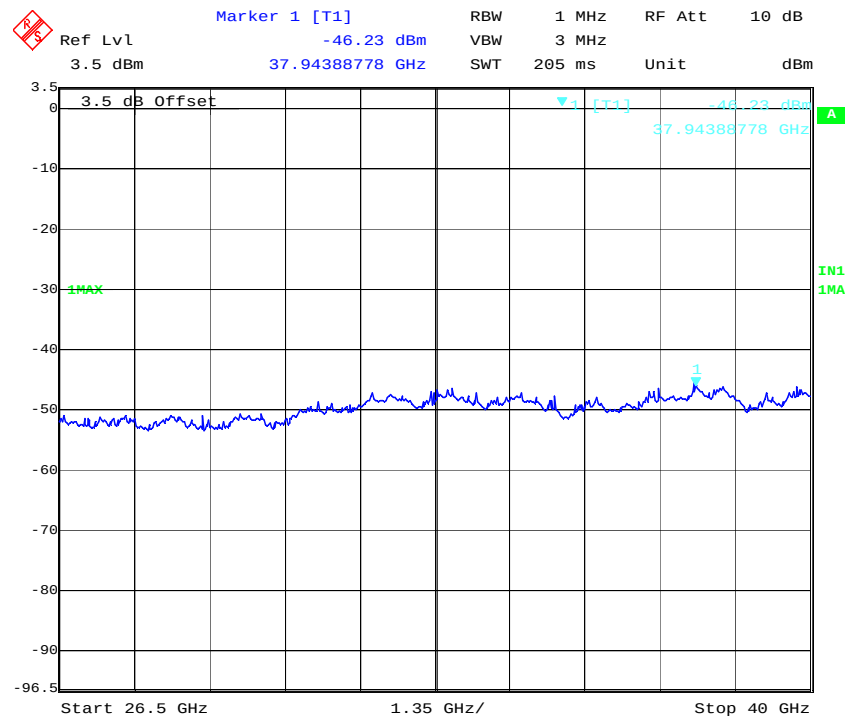


Figure 275: 5MHz, 6dBi, High Channel: Peak Emission from 26.5 GHz to 40 GHz at Ch. 0

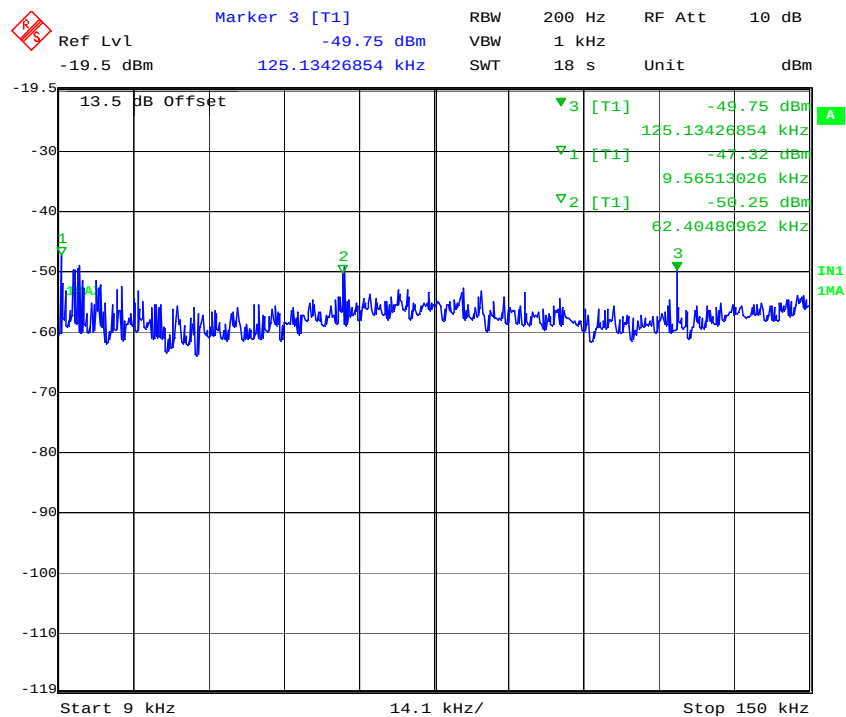


Figure 276: 5MHz, 6dBi, High Channel: Peak Emission from 9 kHz to 150 kHz at Ch. 1

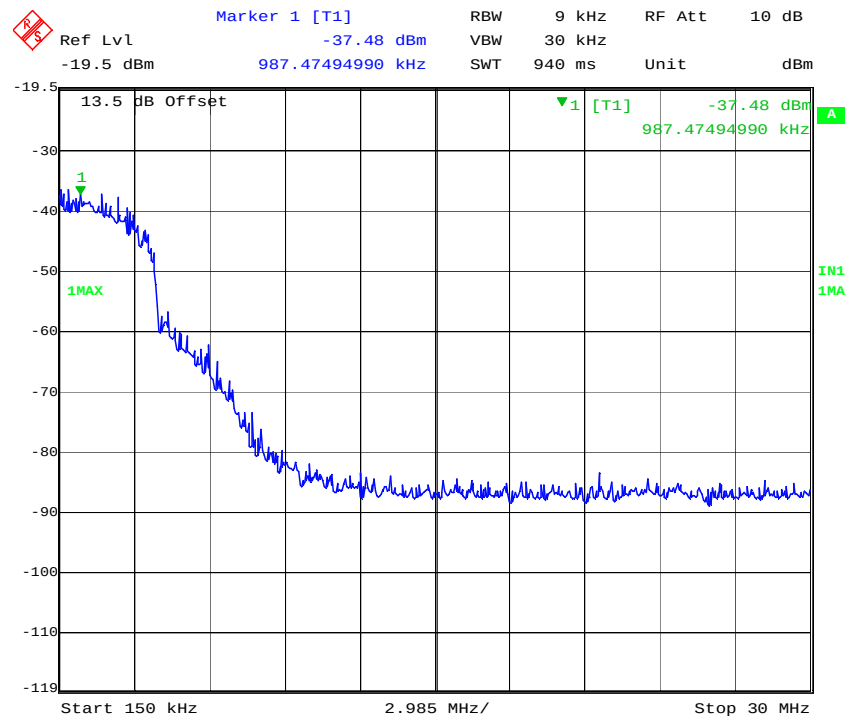


Figure 277: 5MHz, 6dBi, High Channel: Peak Emission from 150 kHz to 30 MHz at Ch. 1

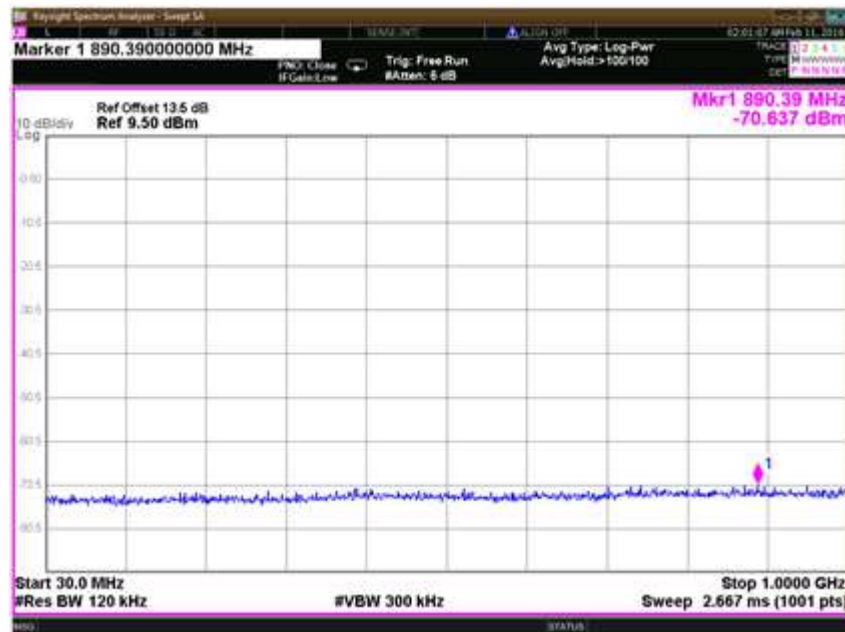


Figure 278: 5MHz, 6dBi, High Channel: Peak Emission from 30 MHz to 1 GHz at Ch. 1

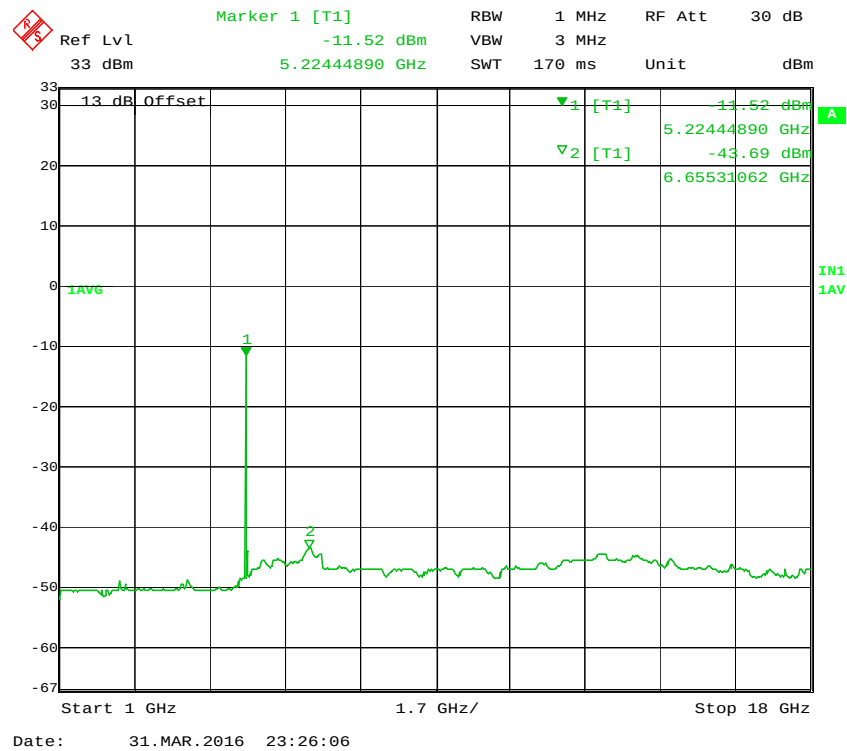


Figure 279: 5MHz, 6dBi, High Channel: Average Emission from 1 GHz to 18 GHz at Ch. 1

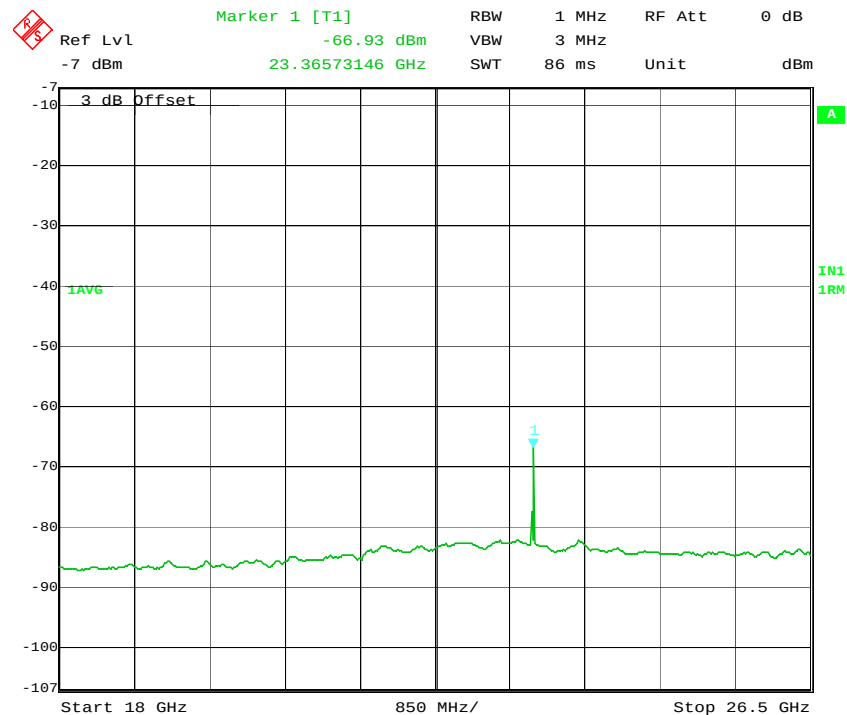


Figure 280: 5MHz, 6dBi, High Channel: Average Emission from 18 GHz to 26.5 GHz at Ch. 1

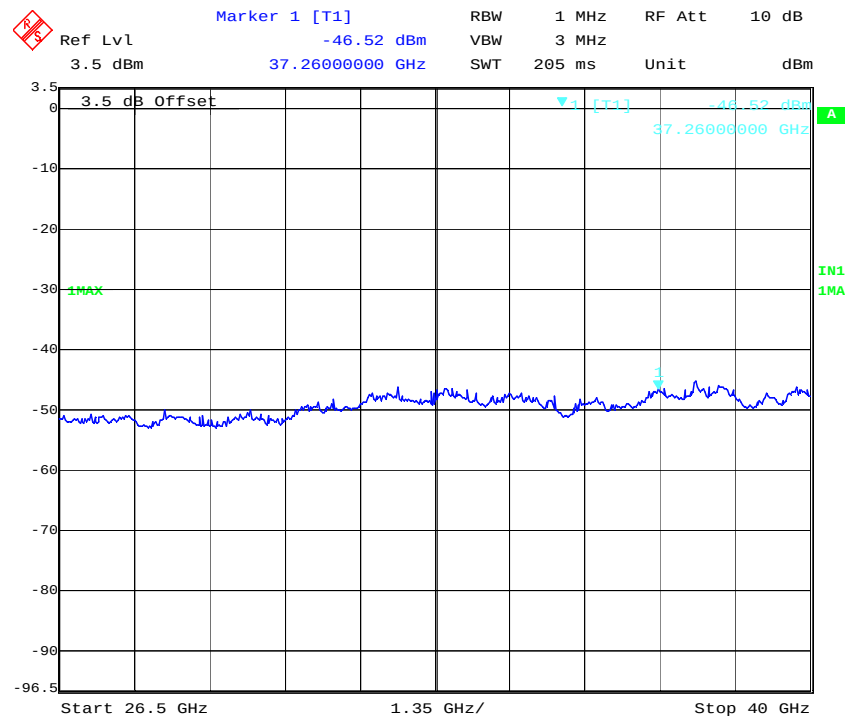


Figure 281: 5MHz, 6dBi, High Channel: Average Emission from 26.5 GHz to 40 GHz at Ch. 1

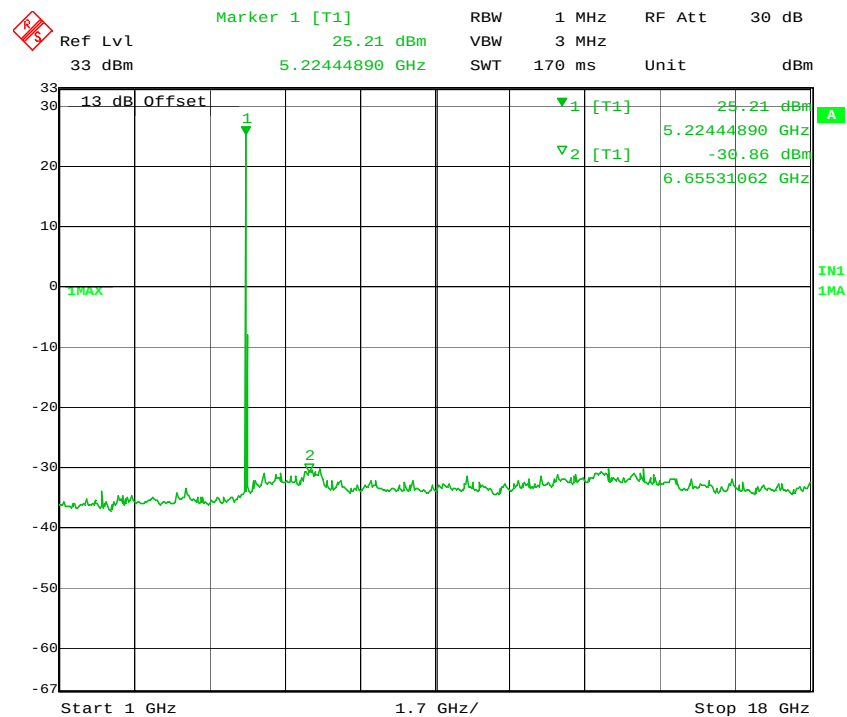


Figure 282: 5MHz, 6dBi, High Channel: Peak Emission from 1 GHz to 18 GHz at Ch. 1

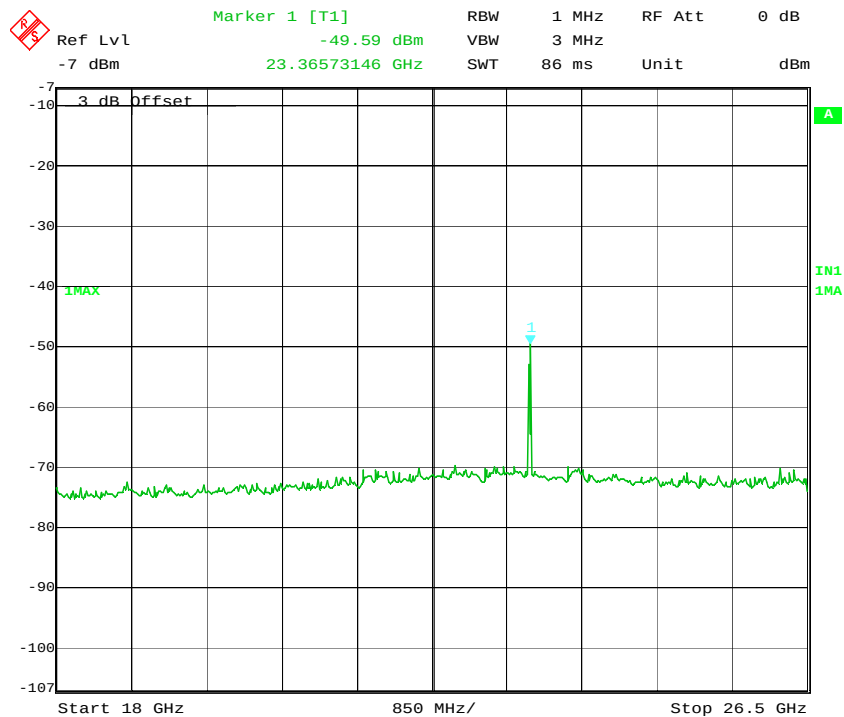


Figure 283: 5MHz, 6dBi, High Channel: Peak Emission from 18 GHz to 26.5 GHz at Ch. 1

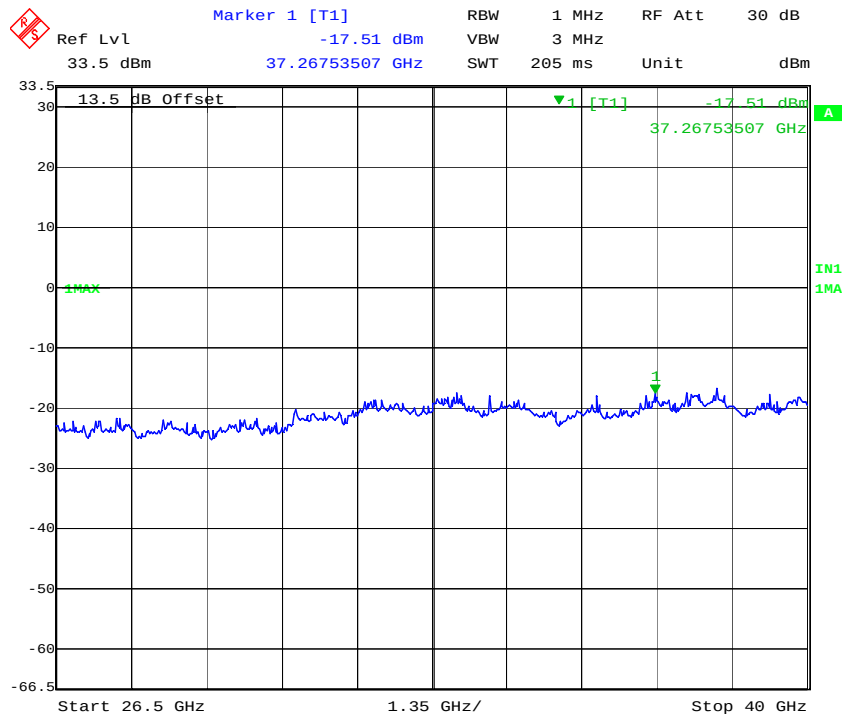


Figure 284: 5MHz, 6dBi, High Channel: Peak Emission from 26.5 GHz to 40 GHz at Ch. 1

5.3.5.6 RESULT

Conducted RF emission is within the restricted band of operation limit specified. Refer below table for consolidated data.

5.3.5.6.1 17 DBI ANTENNA CONDITION

40MHz MODULATION BANDWIDTH

Channel	Detect or (PK/ AVG)	Freq. (Hz)	Ch. 0 (dBm)	Freq. (Hz)	Ch. 1 (dBm)	Ant Gain (dBi)	EIRP+ GRF Ch. 0 (dBm)	EIRP+ GRF Ch. 1 (dBm)	Ch. 0 + Ch. 1 (dBm)	E (dBμV/m)	Limit	Margin (dB)
Low	PK	16.62k	-76.18	16.62k	-71.57	17.00	-53.18	-48.57	-47.28	47.98	120.52	-72.54
	PK	25.1k	-82.60	25.1k	-70.71	17.00	-59.60	-47.71	-47.44	47.82	93.80	-45.98
	PK	209.81k	-58.54	209.81k	-58.90	17.00	-35.54	-35.90	-32.71	62.55	93.80	-31.25
	PK	901M	-75.30	906.69M	-75.16	17.00	-53.60	-53.46	-50.52	44.74	46.02	-1.28
	AVG	6.65G	-53.66	6.62G	-53.83	17.00	-36.66	-36.83	-33.73	61.52	80.00	-18.48
	AVG	23.1G	-83.48	22.99G	-83.92	17.00	-66.48	-66.92	-63.68	31.57	54.00	-22.43
	AVG	38.4G	-58.55	37.9G	-58.22	17.00	-41.55	-41.22	-38.37	56.89	80.00	-23.11
	PK	6.65G	-39.96	6.95G	-35.60	17.00	-22.96	-18.60	-17.24	78.01	80.00	-1.99
	PK	23.01G	-72.31	18.05G	-71.41	17.00	-55.31	-54.41	-51.83	43.43	74.00	-30.57
	PK	38.4G	-46.66	37.94G	-47.13	17.00	-29.66	-30.13	-26.88	68.38	80.00	-11.62
Mid	PK	16.62k	-76.80	40.96k	-80.40	17.00	-53.80	-57.40	-52.23	43.03	128.52	-85.49
	PK	150k	-67.50	150k	-69.39	17.00	-44.50	-46.39	-42.33	52.92	73.80	-20.88
	PK	385.9M	-79.30	887.8M	-76.40	17.00	-57.60	-54.70	-52.90	42.36	46.02	-3.66
	AVG	6.69G	-53.48	6.69G	-53.63	17.00	-36.48	-36.63	-33.54	61.71	80.00	-18.29
	AVG	23.12G	-81.94	23.12G	-81.48	17.00	-64.94	-64.48	-61.69	33.56	54.00	-20.44
	AVG	38.37G	-58.60	37.91G	-59.20	17.00	-41.60	-42.20	-38.88	56.38	80.00	-23.62
	PK	6.69G	-40.45	6.69G	-41.12	17.00	-23.45	-24.12	-20.76	74.50	80.00	-5.50
	PK	22.34G	-69.35	23.14G	-68.70	17.00	-52.35	-51.70	-49.00	46.26	74.00	-27.74
	PK	37.94G	-46.77	38.4G	-46.50	17.00	-29.77	-29.50	-26.62	68.63	80.00	-11.37
High	PK	16.62k	-76.18	16.62k	-71.57	17.00	-53.18	-48.57	-47.28	47.98	128.52	-80.54
	PK	25.10k	-82.62	25.10k	-70.71	17.00	-59.62	-47.71	-47.44	47.82	120.52	-72.70
	PK	209.82k	-58.77	209.82k	-58.90	17.00	-35.77	-35.90	-32.82	62.43	93.80	-31.37
	PK	861.29M	-78.33	902.03M	-70.36	17.00	-56.63	-58.06	-54.28	40.98	46.02	-5.04
	AVG	6.65G	-53.77	6.65G	-53.56	17.00	-36.77	-36.56	-33.65	61.60	80.00	-18.40
	AVG	23.2G	-82.02	23.2G	-81.48	17.00	-65.02	-64.48	-61.73	33.53	54.00	-20.47
	AVG	38.40G	-58.50	38.40G	-58.60	17.00	-41.50	-41.60	-38.54	56.72	80.00	-23.28
	PK	6.62G	-40.08	6.655G	-41.18	17.00	-23.08	-24.18	-20.58	74.67	80.00	-5.33
	PK	23.2G	-69.80	23.29G	-68.34	17.00	-52.80	-51.34	-49.00	46.26	74.00	-27.74
	PK	37.99G	-46.00	37.94G	-46.60	17.00	-29.00	-29.60	-26.28	68.98	80.00	-11.02

Table 14: Result for 17 dBi configuration – 40 MHz modulation bandwidth

5MHz Modulation Bandwidth

Channel	Detector	Freq.	Ch. 0	Freq.	Ch. 1	Ant Gain	EIRP+G RF Ch. 0	EIRP+ GRF Ch. 1	Ch. 0 + Ch. 1	E	Limit	Margin
	(PK/ AVG)	(Hz)	(dBm)	(Hz)	(dBm)	(dBi)	(dBm)	(dBm)	(dBm)	(dBμV/m)		(dB)
Low	PK	10.69k	-76.20	9k	-76.21	17.00	-53.20	-53.21	-50.19	45.06	128.52	-83.46
	PK	209.8k	-69.17	209.8k	-68.45	17.00	-46.17	-45.45	-42.78	52.47	93.80	-41.33
	PK	2.064M	-75.90	7.08M	-75.20	17.00	-54.20	-53.50	-50.83	44.43	69.54	-25.11
	PK	760.4M	-78.02	924.18	-75.46	17.00	-56.32	-53.76	-51.84	43.41	46.02	-2.61
	AVG	6.65G	-56.58	6.65G	-56.60	17.00	-39.58	-39.60	-36.58	58.68	80.00	-21.32
	AVG	22.93G	-80.81	22.93G	-80.80	17.00	-63.81	-63.80	-60.79	34.46	54.00	-19.54
	AVG	38.37G	-58.55	38.37G	-58.56	17.00	-41.55	-41.56	-38.54	56.71	80.00	-23.29
	PK	6.65G	-43.25	6.65G	-44.15	17.00	-26.25	-27.15	-23.67	71.59	80.00	-8.41
	PK	22.93G	-64.41	22.93G	-65.30	17.00	-47.41	-48.30	-44.82	50.44	74.00	-23.56
	PK	37.94G	-46.26	37.94G	-46.53	17.00	-29.26	-29.53	-26.38	68.87	80.00	-11.13
Mid	PK	62.4k	-71.20	62.4k	-62.40	17.00	-48.20	-39.40	-38.86	56.40	120.52	-64.12
	PK	9.56k	-70.50	9.56k	-64.28	17.00	-47.50	-41.28	-40.35	54.91	108.52	-53.61
	PK	987.4k	-58.80	1.22M	-52.56	17.00	-35.80	-29.56	-28.63	66.62	73.80	-7.18
	PK	802.12M	-78.17	996.11	-74.69	17.00	-56.47	-52.99	-51.38	43.88	46.02	-2.14
	AVG	6.68G	-43.56	6.62G	-43.86	17.00	-26.56	-26.86	-23.70	71.56	80.00	-8.44
	AVG	23.09G	-81.41	23.09G	-80.89	17.00	-64.41	-63.89	-61.13	34.13	54.00	-19.87
	AVG	37.9G	-59.25	38.4G	-58.53	17.00	-42.25	-41.53	-38.86	56.39	80.00	-23.61
	PK	6.68G	-40.30	6.68G	-39.42	17.00	-23.30	-22.42	-19.83	75.43	80.00	-4.57
	PK	23.09G	-61.05	23.11G	-61.65	17.00	-44.05	-44.65	-41.33	53.93	74.00	-20.07
	PK	37.94G	-45.72	37.91G	-47.00	17.00	-28.72	-30.00	-26.30	68.95	80.00	-11.05
High	PK	9.56k	-54.06	9.56k	-73.29	17.00	-31.06	-50.29	-31.01	64.25	128.52	-64.27
	PK	62.4k	-53.90	62.4k	-68.70	17.00	-30.90	-45.70	-30.76	64.50	93.80	-29.30
	PK	508.91k	-59.84	209.81k	-55.68	17.00	-36.84	-32.68	-31.27	63.99	75.00	-11.01
	PK	888.45M	-77.77	891.36	-77.06	17.00	-56.07	-55.36	-52.69	42.57	46.02	-3.45
	AVG	6.68G	-43.62	6.68G	-53.66	17.00	-26.62	-36.66	-26.21	69.05	80.00	-10.95
	AVG	23.36G	-79.94	23.36G	-80.40	17.00	-62.94	-63.40	-60.15	35.10	54.00	-18.90
	AVG	37.17G	-59.95	37.17G	-59.95	17.00	-42.95	-42.95	-39.94	55.32	80.00	-24.68
	PK	6.68G	-39.87	6.653G	-39.32	17.00	-22.87	-22.32	-19.58	75.68	80.00	-4.32
	PK	23.36G	-62.30	23.36G	-62.01	17.00	-45.30	-45.01	-42.14	53.12	54.00	-0.88
	PK	37.94G	-46.89	38.37G	-46.44	17.00	-29.89	-29.44	-26.65	68.61	80.00	-11.39

Table 15: Result for 17 dBi configuration - 5 MHz modulation bandwidth

5.3.5.6.2 6 DBI ANTENNA CONDITION

40MHz Modulation Bandwidth

Channel	Detector	Freq.	Ch. 0	Freq.	Ch. 1	Ant Gain	EIRP + GRF Ch. 0	EIRP + GRF Ch. 1	Ch. 0 + Ch. 1	E	Limit	Margin
	(PK/AVG)	(Hz)	(dBm)	(Hz)	(dBm)	(dBi)	(dBm)	(dBm)	(dBm)	(dBμV/m)		(dB)
Low	PK	16.62k	-52.61	16.62k	-67.82	6.00	-40.61	-55.82	-40.48	54.78	128.52	-73.74
	PK	25.1k	-60.88	25.1k	-70.55	6.00	-48.88	-58.55	-48.44	46.82	73.80	-26.98
	PK	209.81k	-59.19	150k	-57.07	6.00	-47.19	-45.07	-42.99	52.27	73.80	-21.53
	PK	749.71M	-69.95	800.1M	-70.20	6.00	-59.25	-59.50	-56.36	38.90	46.02	-7.12
	AVG	6.68G	-53.51	6.65G	-53.51	6.00	-47.51	-47.51	-44.50	50.76	80.00	-29.24
	AVG	22.99G	-78.80	22.99G	-77.70	6.00	-72.80	-71.70	-69.20	26.05	54.00	-27.95
	AVG	38.37G	-30.46	37.94G	-30.30	6.00	-24.46	-24.30	-21.37	73.89	80.00	-6.11
	PK	6.65G	-41.57	6.55G	-41.30	6.00	-35.57	-35.30	-32.42	62.83	80.00	-17.17
	PK	22.99G	-65.69	22.99G	-64.63	6.00	-59.69	-58.63	-56.12	39.14	54.00	-14.86
	PK	39.8G	-47.60	38.5G	-47.50	6.00	-41.60	-41.50	-38.54	56.72	80.00	-23.28
Mid	PK	16.62k	-63.67	16.62k	-61.81	6.00	-51.67	-49.81	-47.63	47.63	128.52	-80.89
	PK	41.77k	-73.03	41.77k	-70.22	6.00	-61.03	-58.22	-56.39	38.87	73.80	-34.93
	PK	25.10M	-71.39	25.10M	-68.71	6.00	-60.69	-56.71	-55.25	40.01	69.54	-29.53
	PK	20M	-58.30	20M	-57.20	6.00	-47.60	-46.50	-44.00	51.25	59.54	-8.29
	PK	825.4M	-70.07	442.2M	-70.89	6.00	-59.37	-60.19	-56.75	38.51	80.00	-41.49
	AVG	6.68G	-53.58	6.68G	-50.53	6.00	-47.58	-44.53	-42.78	52.48	54.00	-1.52
	AVG	23.14G	-72.95	23.12G	-70.51	6.00	-66.95	-64.51	-62.55	32.71	80.00	-47.29
	AVG	37.97G	-58.50	38.43G	-58.90	6.00	-52.50	-52.90	-49.69	45.57	80.00	-34.43
	PK	1.94G	-32.64	6.68G	-39.90	6.00	-26.64	-33.90	-25.89	69.37	80.00	-10.63
	PK	23.12G	-59.70	23.12G	-58.60	6.00	-53.70	-52.60	-50.10	45.15	74.00	-28.85
High	PK	38.34G	-46.70	38.43G	-46.72	6.00	-40.70	-40.72	-37.70	57.56	80.00	-22.44
	PK	16.62k	-52.61	16.62k	-67.83	6.00	-40.61	-55.83	-40.48	54.78	128.52	-73.74
	PK	25.10k	-60.88	25.10k	-70.55	6.00	-48.88	-58.55	-48.44	46.82	93.80	-46.98
	PK	209.8k	-59.19	150k	-57.07	6.00	-47.19	-45.07	-42.99	52.27	73.80	-21.53
	PK	910.7M	-70.39	931M	-70.16	6.00	-59.69	-59.46	-56.56	38.69	46.02	-7.33
	AVG	6.65G	-53.58	6.65G	-53.72	6.00	-47.58	-47.72	-44.64	50.62	80.00	-29.38
	AVG	23.297G	-73.48	23.297G	-71.70	6.00	-67.48	-65.70	-63.49	31.77	80.00	-48.23
	AVG	38.37G	-30.46	37.94G	-30.30	6.00	-24.46	-24.30	-21.37	73.89	80.00	-6.11
	PK	6.655G	-35.56	6.655G	-40.63	6.00	-29.56	-34.63	-28.38	66.87	80.00	-13.13
	PK	23.29G	-61.97	23.29G	-59.14	6.00	-55.97	-53.14	-51.32	43.94	80.00	-36.06
High	PK	39.8G	-48.80	38.53G	-47.30	6.00	-42.80	-41.30	-38.98	56.28	80.00	-23.72

Table 16: Result for 6 dBi configuration – 40 MHz modulation bandwidth

5 MHz Modulation Bandwidth

Channel	Detector	Freq.	Ch. 0	Freq.	Ch. 1	Ant Gain	EIRP + GRF Ch. 0	EIRP + GRF Ch. 1	Ch. 0 + Ch. 1	E	Limit	Margin
	(PK/AVG)	(Hz)	(dBm)	(Hz)	(dBm)	(dBi)	(dBm)	(dBm)	(dBm)	(dBμV/m)		(dB)
Low	PK	11.84k	-76.05	12.10k	-75.48	6.00	-64.05	-63.48	-60.75	34.51	128.52	-94.01
	PK	150k	-65.14	209.82	-65.45	6.00	-53.14	-53.45	-50.28	44.98	73.80	-28.82
	PK	788.5M	-70.46	415.09M	-70.78	6.00	-59.76	-58.78	-56.23	39.03	46.02	-6.99
	AVG	6.655G	-56.50	6.655G	-56.54	6.00	-50.50	-50.54	-47.51	47.75	80.00	-32.25
	AVG	22.93G	-71.10	22.93G	-71.39	6.00	-65.10	-65.39	-62.23	33.03	54.00	-20.97
	AVG	38.4G	-58.50	37.94G	-60.10	6.00	-52.50	-54.10	-50.22	45.04	80.00	-34.96
	PK	6.55G	-43.27	6.655G	-43.77	6.00	-37.27	-37.77	-34.50	60.76	80.00	-19.24
	PK	22.93G	-53.37	22.93G	-54.86	6.00	-47.37	-48.86	-45.04	50.22	74.00	-23.78
	PK	38.4G	-46.16	38.4G	-45.84	6.00	-40.16	-39.84	-36.99	58.27	80.00	-21.73
Mid	PK	9.56k	-49.63	9.56k	-43.62	6.00	-37.63	-31.62	-30.65	64.61	128.52	-63.91
	PK	62.4k	-50.88	62.4k	-47.09	6.00	-38.88	-35.09	-33.57	61.68	120.00	-58.32
	PK	125.13k	-52.60	125.13k	-47.43	6.00	-40.60	-35.43	-34.28	60.98	73.80	-12.82
	PK	389k	-37.80	2.48M	-34.09	6.00	-25.80	-23.39	-21.42	73.84	93.80	-19.96
	PK	863.23M	-70.40	816.67M	-70.40	6.00	-59.70	-59.70	-56.69	38.57	46.02	-7.45
	AVG	6.68G	-43.52	6.612G	-43.85	6.00	-37.52	-37.85	-34.67	60.59	80.00	-19.41
	AVG	23.11G	-72.31	23.11G	-69.43	6.00	-66.31	-63.43	-61.63	33.63	54.00	-20.37
	AVG	37.94G	-58.60	37.97G	-58.65	6.00	-52.60	-52.65	-49.61	45.64	80.00	-34.36
	PK	6.68G	-30.00	6.612G	-31.16	6.00	-24.00	-25.16	-21.53	73.73	80.00	-6.27
	PK	23.11G	-52.93	23.11G	-50.47	6.00	-46.93	-44.47	-42.52	52.74	80.00	-27.26
	PK	37.97G	-46.34	38.4G	-46.89	6.00	-40.34	-40.89	-37.60	57.66	80.00	-22.34
High	PK	49.97k	-76.39	9.56k	-47.32	6.00	-64.39	-35.32	-35.31	59.94	128.52	-68.58
	PK	62.4k	-75.64	62.4k	-50.25	6.00	-63.64	-38.25	-38.24	57.02	120.00	-62.98
	PK	125.13k	-78.00	125.13k	-49.75	6.00	-66.00	-37.75	-37.74	57.51	93.80	-36.29
	PK	389.2k	-38.51	987.47k	-37.48	6.00	-26.51	-25.48	-22.95	72.30	73.80	-1.50
	PK	967.99M	-70.59	890.39M	-70.63	6.00	-59.89	-59.93	-56.90	38.36	46.02	-7.66
	AVG	6.655G	-43.66	6.655G	-43.69	6.00	-37.66	-37.69	-34.66	60.59	80.00	-19.41
	AVG	23.36G	-68.94	23.36G	-66.93	6.00	-62.94	-60.93	-58.81	36.45	80.00	-43.55
	AVG	37.97G	-58.60	38.4G	-58.50	6.00	-52.60	-52.50	-49.54	45.72	80.00	-34.28
	PK	6.689G	-30.68	6.65G	-30.86	6.00	-24.68	-24.86	-21.76	73.50	80.00	-6.50
	PK	23.3G	-50.83	23.3G	-49.59	6.00	-44.83	-43.59	-41.16	54.10	80.00	-25.90
	PK	37.94G	-46.23	37.26G	-45.50	6.00	-40.23	-39.50	-36.84	58.42	80.00	-21.58

Table 17: Result for 6 dBi configuration -5 MHz modulation bandwidth

Note:

GRF is Ground Reflection Factor and it is considered to be 6dB for frequencies below 30MHz, 4.7dB for frequencies between 30MHz to 1GHz & 0dB for frequencies above 1GHz.

$EIRP = Ch. \times \text{measured power} + \text{Antenna gain}$

$E = (EIRP + GRF) - 20 \log D + 104.8$

$\text{Margin} = E - \text{Limit}$

5.3.6 BAND EDGE EMISSIONS

5.3.6.1 TEST SPECIFICATION

Test Standard	47 CFR, Part 15, Feb 2016
Test Procedure	789033 D2 General U-NII Test Procedures New Rule V01r01
Frequency Range	5150 MHz to 5250 MHz
Resolution Bandwidth	100 kHz
Video Bandwidth	300 kHz
Sweep Time	1 ms
Attenuation	Auto
Test Mode	Conducted
Detector	Peak
Input Voltage	120 V AC
Input Frequency	60 Hz
Temperature	24.0 °C
Humidity	55.0 %
Tested By	V.D.Raviteja
Test Date	8 th Feb 2016

5.3.6.2 LIMITS

Standard	Reference section	Frequency range	Limit
47 CFR, Part 15, Feb 2016	§15.407 b(1)	5150 MHz to 5250 MHz	≤ -27 dBm in any 1MHz band Limit,(for 6 dBi antenna configuration) : ≤ -36 dBm/MHz Limit (for 17 dBi antenna configuration) : ≤ 47 dBm/MHz

5.3.6.3 TEST SETUP



Figure 285: Typical test setup for Conducted Test

5.3.6.4 TEST PROCEDURE

The Conducted test was performed using the Spectrum analyzer. Measurements were done as per the “**789033 D2 General U-NII Test Procedures New Rule V01r01**”. The RF output of the EUT was connected to the input port of Spectrum analyzer using an attenuator. The graph and data captured from spectrum analyzer and recorded.

5.3.6.5 MEASUREMENT GRAPHS / DATA

5.3.6.5.1 40 MHz MODULATION BANDWIDTH, 17 dBi ANTENNA, LOW CHANNEL - 5180 MHz

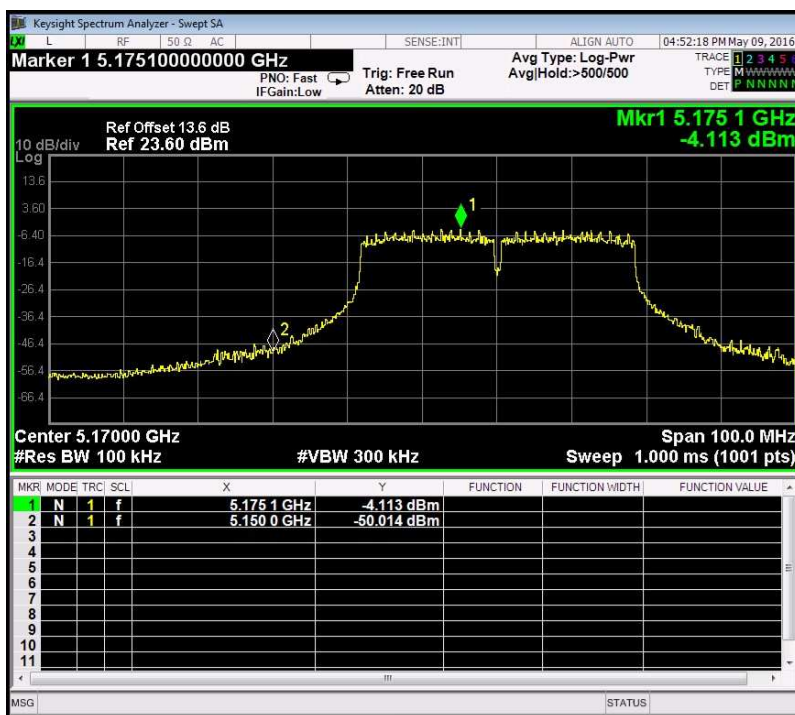


Figure 286: 40 MHz, 17 dBi, Low Channel: Band Edge: Measured at Ch.0

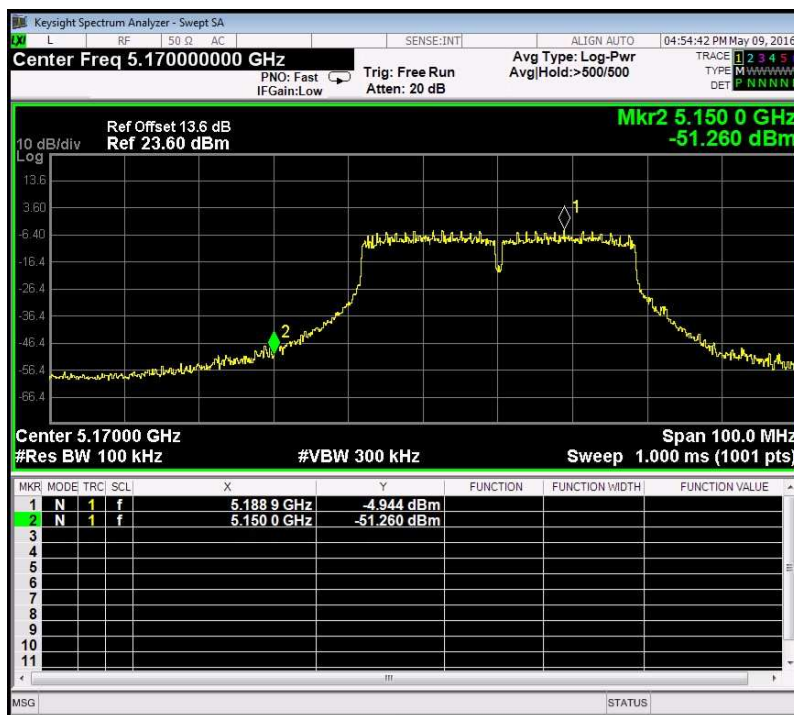


Figure 287: 40 MHz, 17 dBi, Low Channel: Band Edge: Measured at Ch.1

5.3.6.5.2 40 MHz MODULATION BANDWIDTH, 17 dBi ANTENNA, HIGH CHANNEL - 5220 MHz

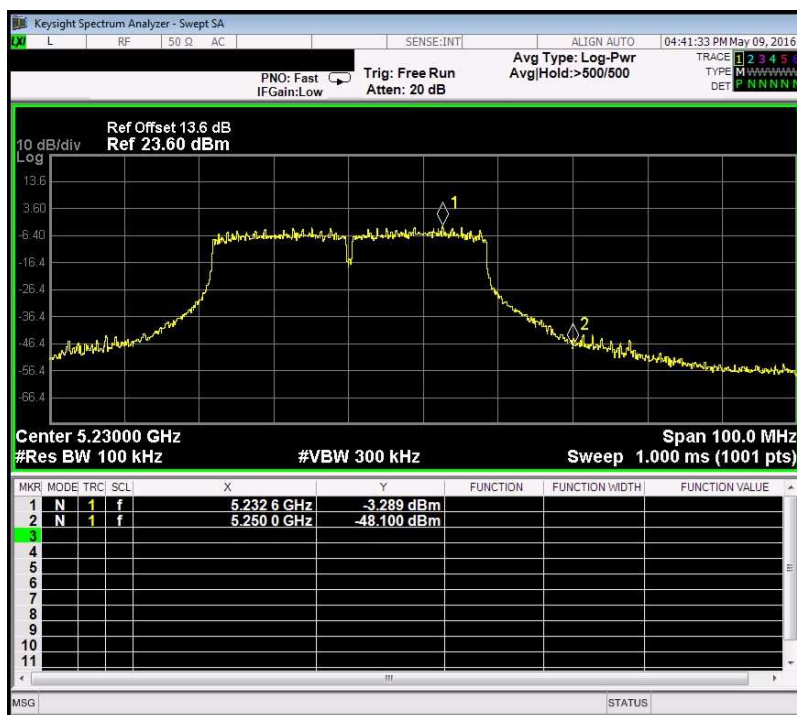


Figure 288: 40 MHz, 17 dBi, High Channel: Band Edge: Measured at Ch.0

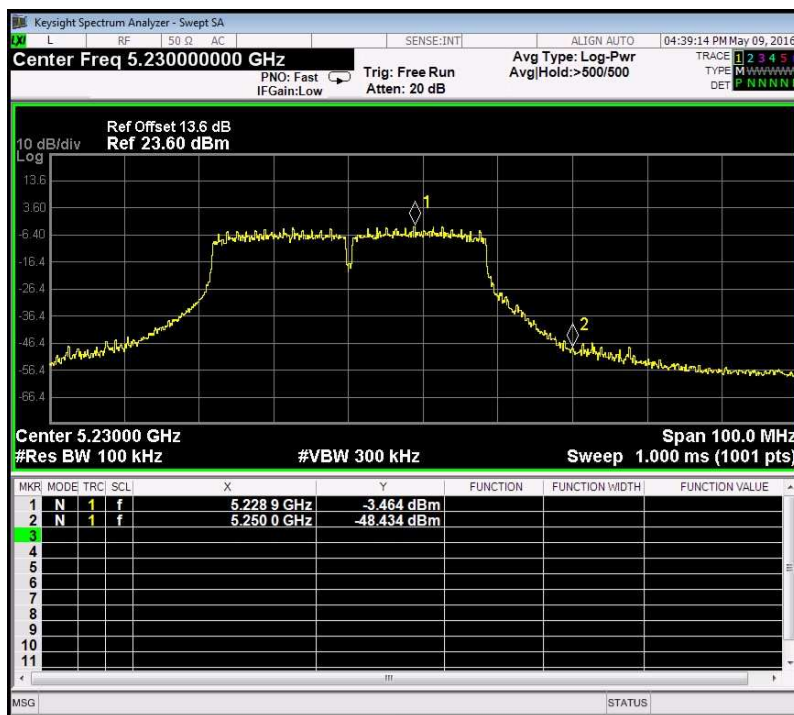


Figure 289: 40 MHz, 17 dBi, High Channel: Band Edge: Measured at Ch.1

5.3.6.5.3 40 MHz MODULATION BANDWIDTH, 6 dBi POWER, LOW CHANNEL - 5180 MHZ



Figure 290: 40 MHz, 6 dBi, Low Channel: Band Edge: Measured at Ch.0

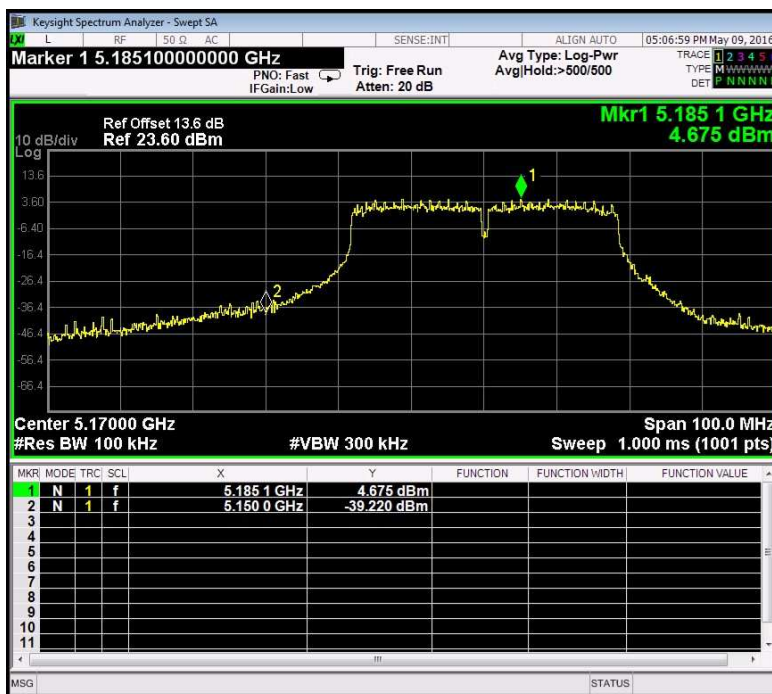


Figure 291: 40 MHz, 6 dBi, Low Channel: Band Edge: Measured at Ch.1

5.3.6.5.4 40 MHz MODULATION BANDWIDTH, 6 dBi POWER, HIGH CHANNEL - 5180 MHz

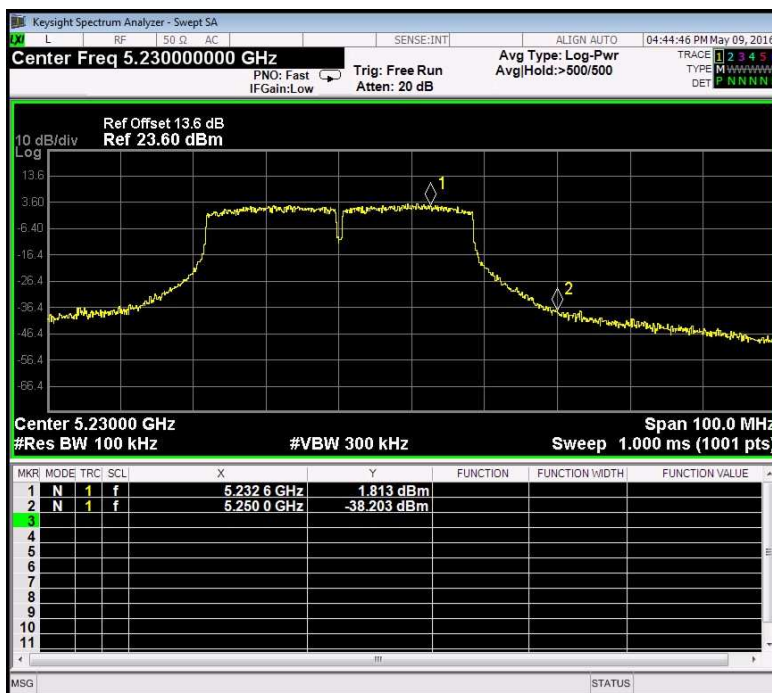


Figure 292: 40 MHz, 6 dBi, High Channel: Band Edge: Measured at Ch.0



Figure 293: 40 MHz, 6 dBi, High Channel: Band Edge: Measured at Ch.1

5.3.6.5.5 5 MHz MODULATION BANDWIDTH, 17 dBi ANTENNA, LOW CHANNEL - 5115 MHz

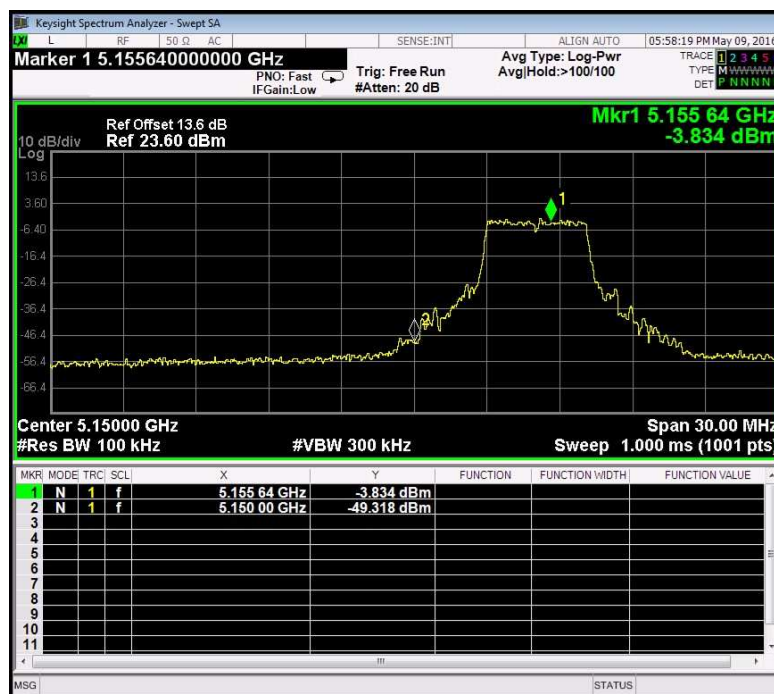


Figure 294: 5 MHz, 17 dBi, Low Channel: Band Edge: Measured at Ch.0

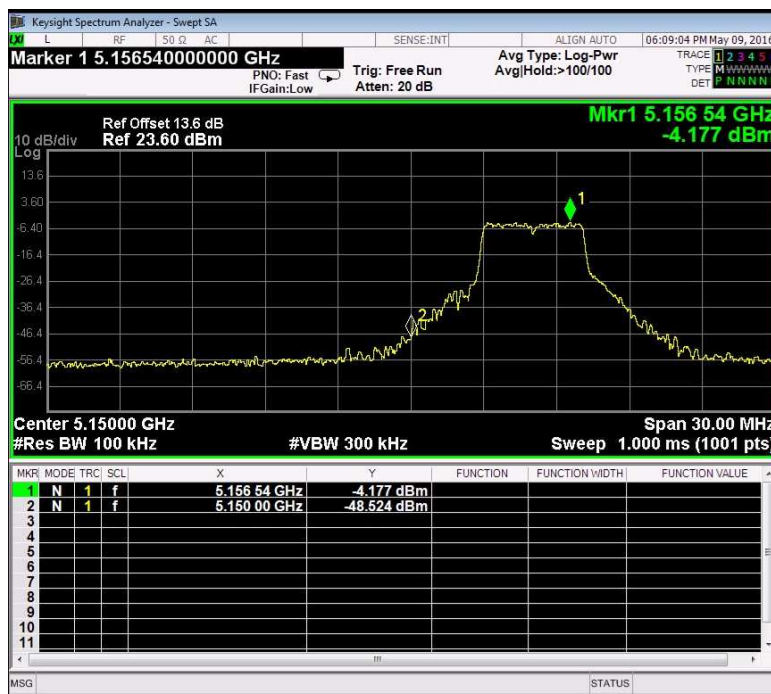


Figure 295: 5 MHz, 17 dBi, Low Channel: Band Edge: Measured at Ch.1

5.3.6.5.6 5 MHz MODULATION BANDWIDTH, 17 dBi ANTENNA, HIGH CHANNEL - 5245 MHz

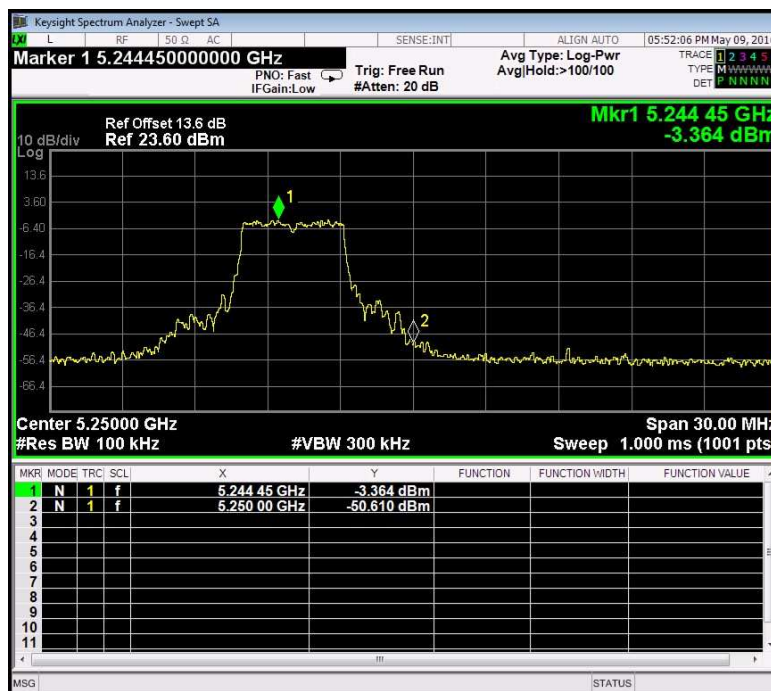


Figure 296: 5 MHz, 17 dBi, High Channel: Band Edge: Measured at Ch.0

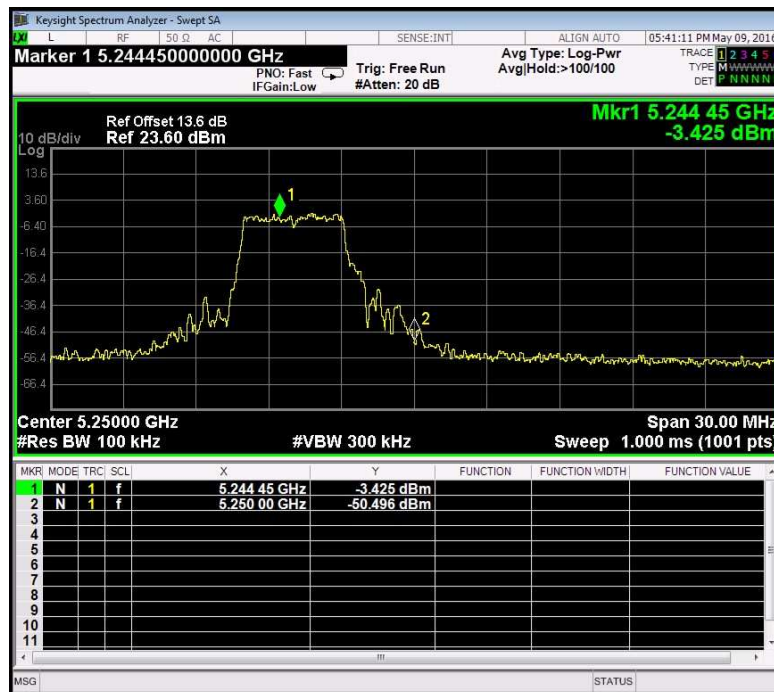


Figure 297: 5 MHz, 17 dBi, High Channel: Band Edge: Measured at Ch.1

5.3.6.5.7 5 MHz MODULATION BANDWIDTH, 6 dBi POWER, LOW CHANNEL - 5115 MHz

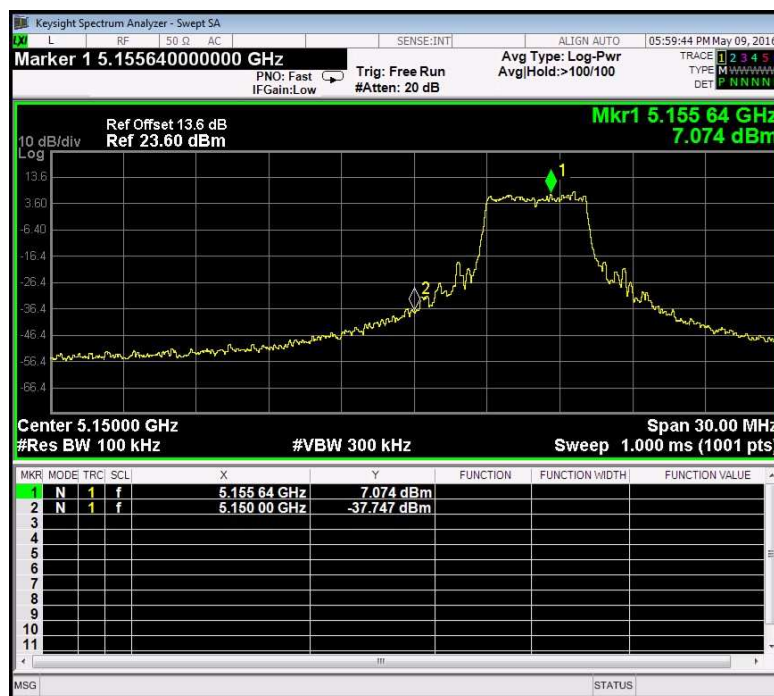


Figure 298: 5 MHz, 6 dBi, Low Channel: Band Edge: Measured at Ch.0



Figure 299: 5 MHz, 6 dBi, Low Channel: Band Edge: Measured at Ch.1

5.3.6.5.8 5 MHz MODULATION BANDWIDTH, 6 dBi POWER, HIGH CHANNEL - 5245 MHz



Figure 300: 5 MHz, 6 dBi, High Channel: Band Edge: Measured at Ch.0



Figure 301: 5 MHz, 6 dBi, High Channel: Band Edge: Measured at Ch.1

5.3.6.6 RESULT

The Band Edge measurements for Low and High Channel in both 40 MHz & 5 MHz modulation bandwidth is within the permissible levels.

5.3.7 99% OCCUPIED CHANNEL BANDWIDTH

5.3.7.1 TEST SPECIFICATION

Test Standard	47 CFR, Part 15, Feb 2016
Test Procedure	789033 D2 General U-NII Test Procedures New Rule V01r01
Frequency Range	5150 MHz to 5250 MHz
Resolution Bandwidth	100 kHz
Video Bandwidth	300 kHz
Sweep Time	Auto
Attenuation	Auto
Test Mode	Conducted
Detector	PEAK
Input Voltage	120 V AC
Input Frequency	60 Hz
Temperature	24.0 °C
Humidity	55.0 %
Tested By	V.D.Raviteja
Test Date	8 th Feb 2016

5.3.7.2 LIMITS

Standard	Reference section	Frequency range	Limit
47 CFR, Part 15, Feb 2016	NA	5150 MHz to 5250 MHz	NA

5.3.7.3 TEST SETUP



Figure 302: Typical test setup for Conducted Test

5.3.7.4 TEST PROCEDURE

The Conducted test was performed using the Spectrum analyzer. Measurements were done as per the “**789033 D2 General U-NII Test Procedures New Rule V01r01**”. The RF output of the EUT was connected to the input port of Spectrum analyzer using an attenuator. The graph and data captured from spectrum analyzer and recorded.

5.3.7.5 MEASUREMENT GRAPHS / DATA

5.3.7.5.1 40 MHz MODULATION BANDWIDTH, 17 dBi ANTENNA, Low CHANNEL - 5180 MHz

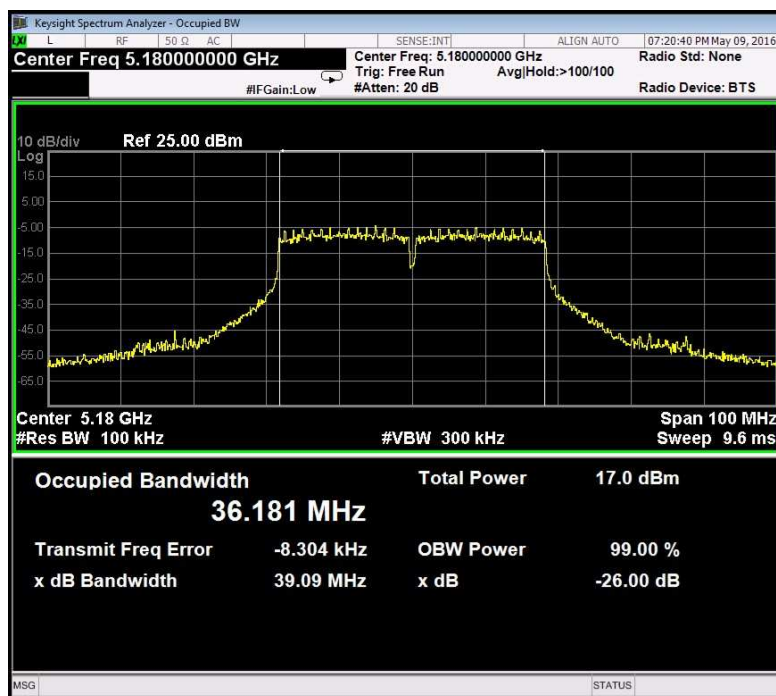


Figure 303: 40 MHz, 17 dBi, Low Channel: 99% OBW: Measured at Ch.0

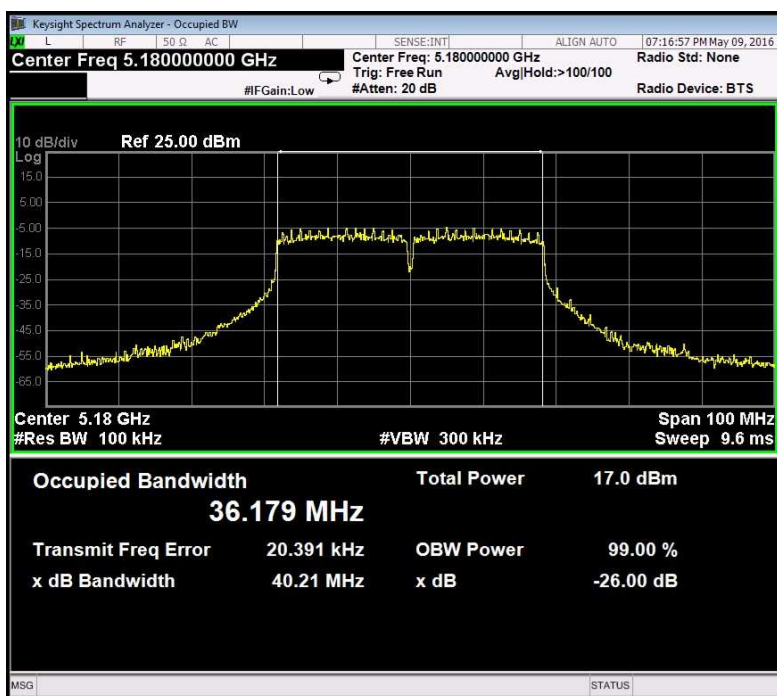


Figure 304: 40 MHz, 17 dBi, Low Channel: 99% OBW: Measured at Ch.1

5.3.7.5.2 40 MHz MODULATION BANDWIDTH, 17 dBi ANTENNA, MID CHANNEL - 5200 MHz

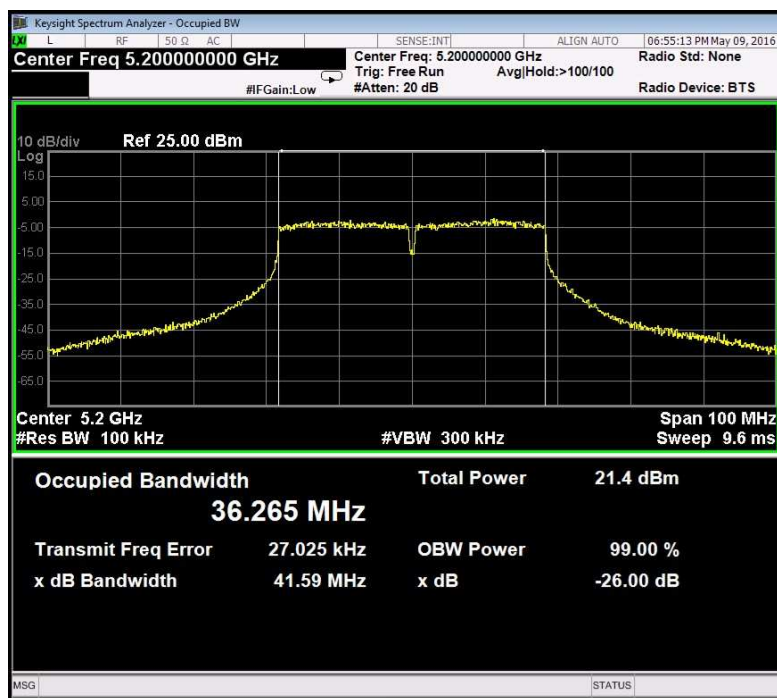


Figure 305: 40 MHz, 17 dBi, Mid Channel: 99% OBW: Measured at Ch.0

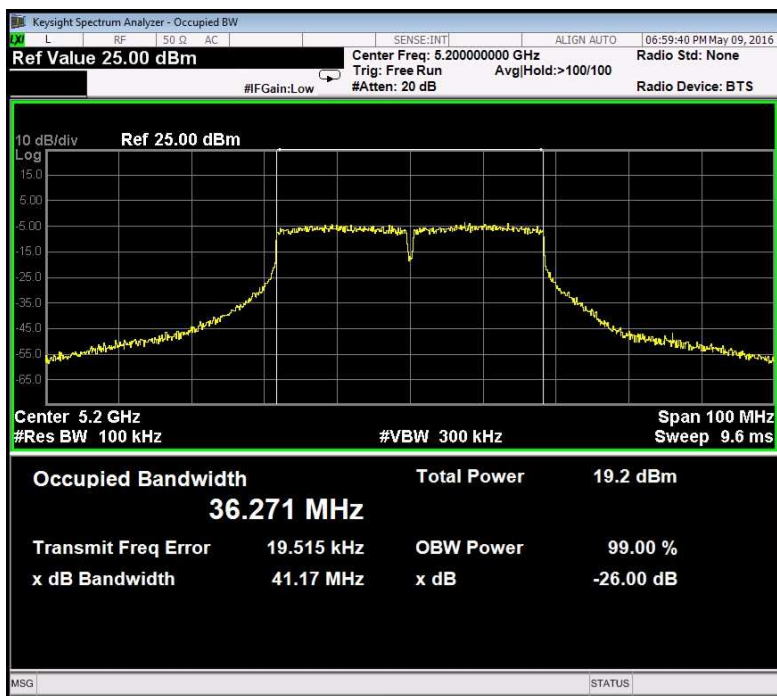


Figure 306: 40 MHz, 17 dBi, Mid Channel: 99% OBW: Measured at Ch.1

5.3.7.5.3 40 MHz MODULATION BANDWIDTH, 17 dBi ANTENNA, HIGH CHANNEL - 5220 MHz

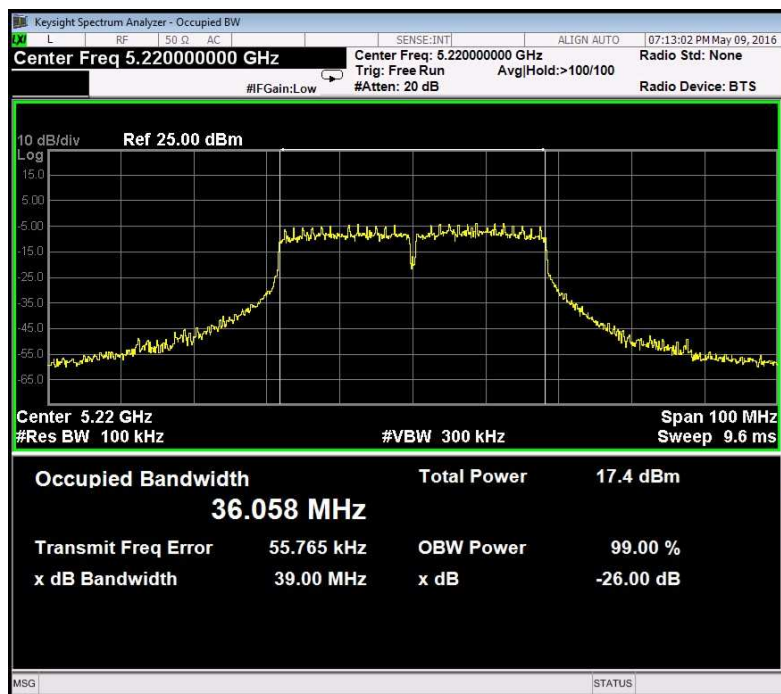


Figure 307: 40 MHz, 17 dBi, High Channel: 99% OBW: Measured at Ch.0

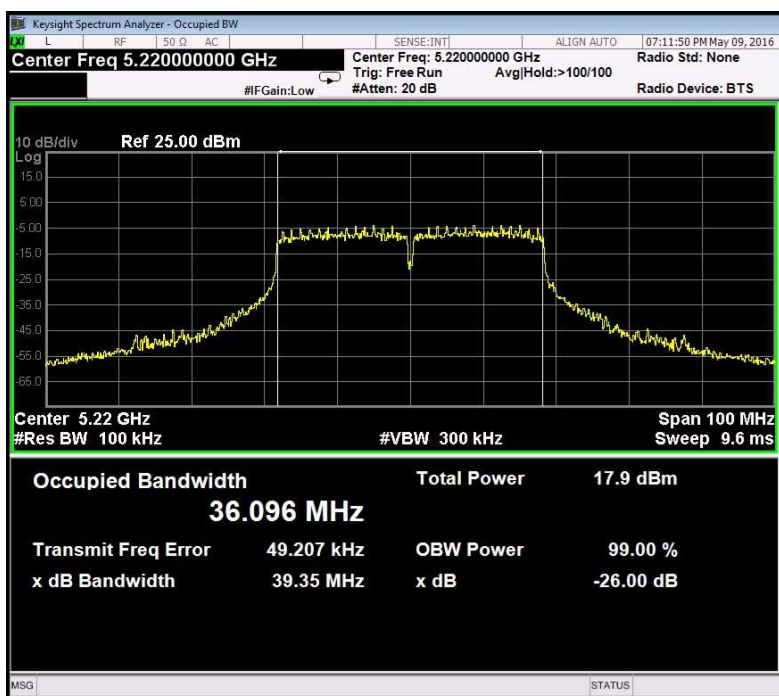


Figure 308: 40 MHz, 17 dBi, High Channel: 99% OBW: Measured at Ch.1

5.3.7.5.4 40 MHz MODULATION BANDWIDTH, 6 dBi POWER, LOW CHANNEL - 5180 MHz

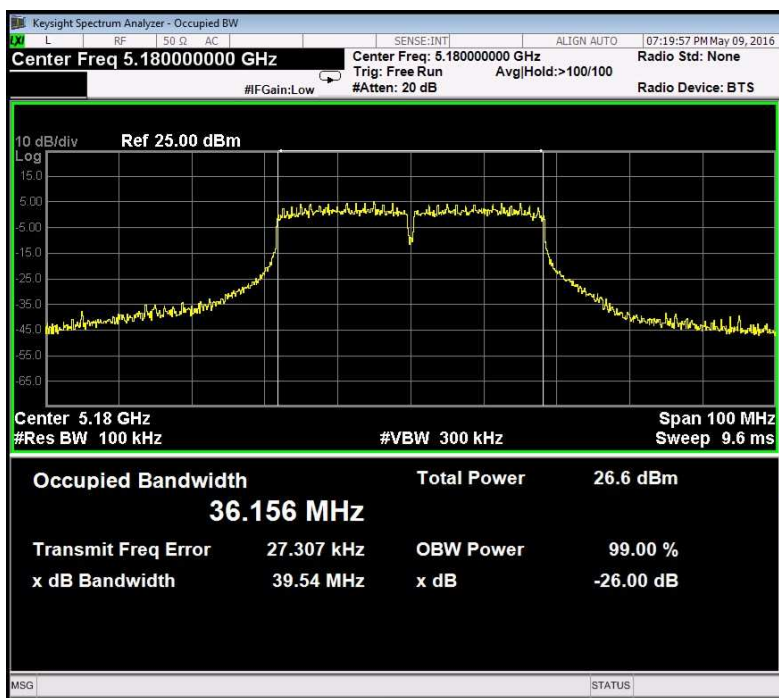


Figure 309: 40 MHz, 6 dBi, Low Channel: 99% OBW: Measured at Ch.0

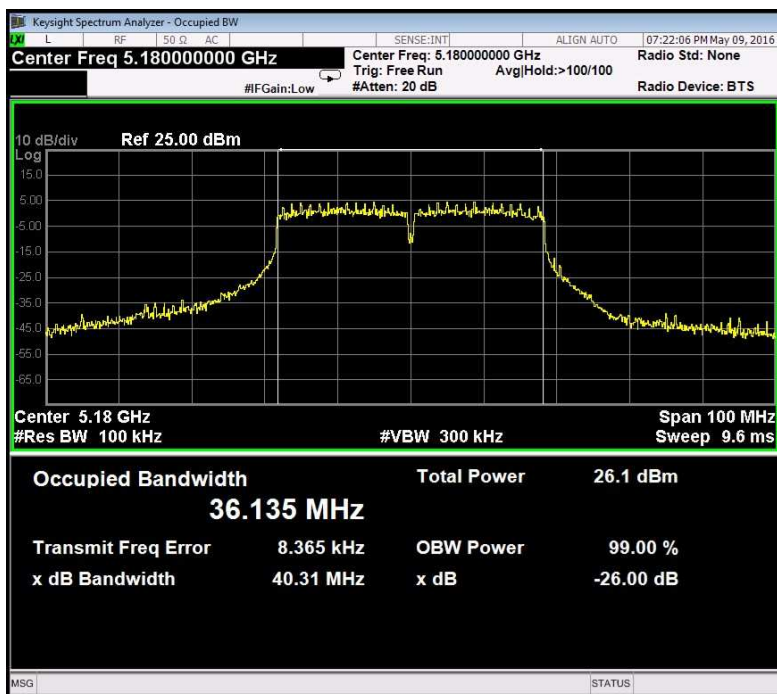


Figure 310: 40 MHz, 6 dBi, Low Channel: 99% OBW: Measured at Ch.1

5.3.7.5.5 40 MHz MODULATION BANDWIDTH, 6 dBi POWER, MID CHANNEL - 5200 MHz

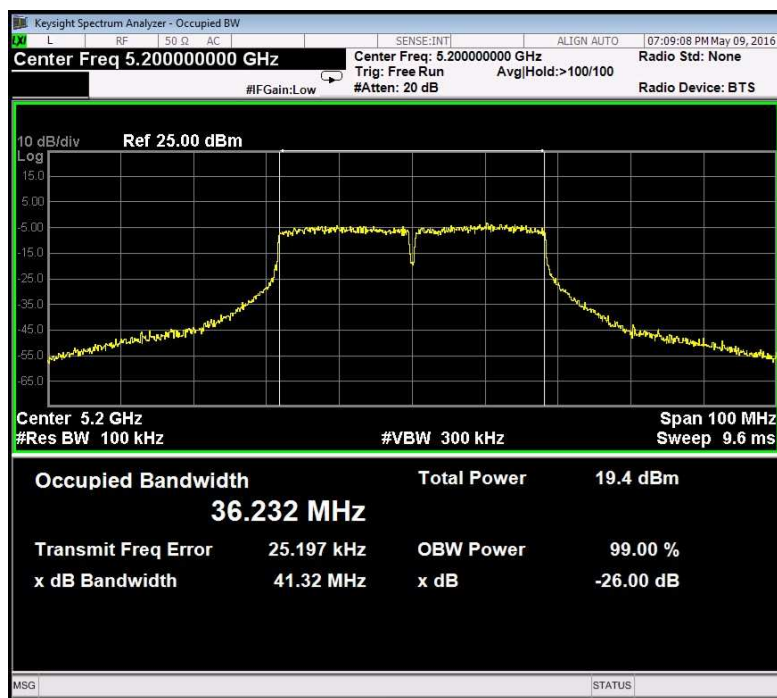


Figure 311: 40 MHz, 6 dBi, Mid Channel: 99% OBW: Measured at Ch.0

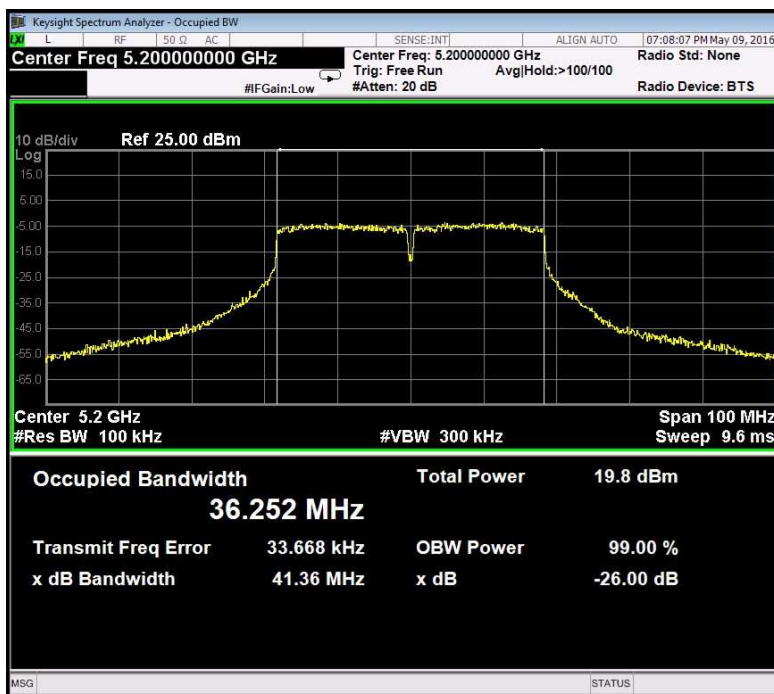


Figure 312: 40 MHz, 6 dBi, Mid Channel: 99% OBW: Measured at Ch.1

5.3.7.5.6 40 MHz MODULATION BANDWIDTH, 6 dBi POWER, HIGH CHANNEL - 5220 MHz

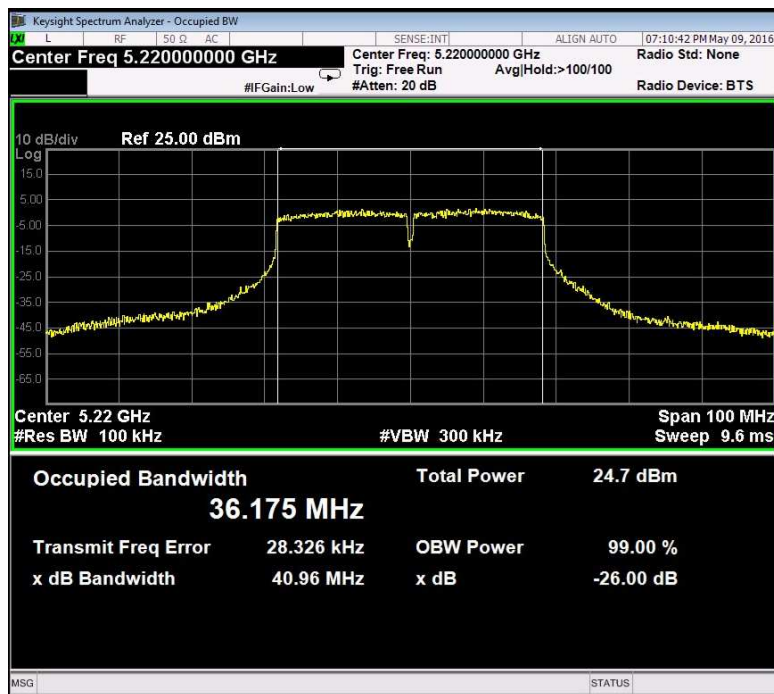


Figure 313: 40 MHz, 6 dBi, High Channel: 99% OBW: Measured at Ch.0

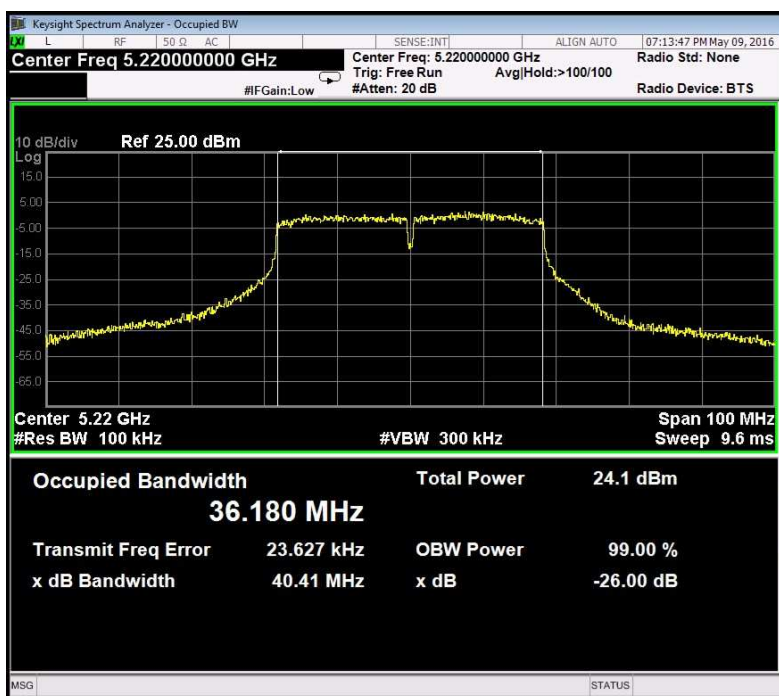


Figure 314: 40 MHz, 6 dBi, High Channel: 99% OBW: Measured at Ch.1

5.3.7.5.7 5 MHz MODULATION BANDWIDTH, 17 dBi ANTENNA, LOW CHANNEL - 5115 MHz

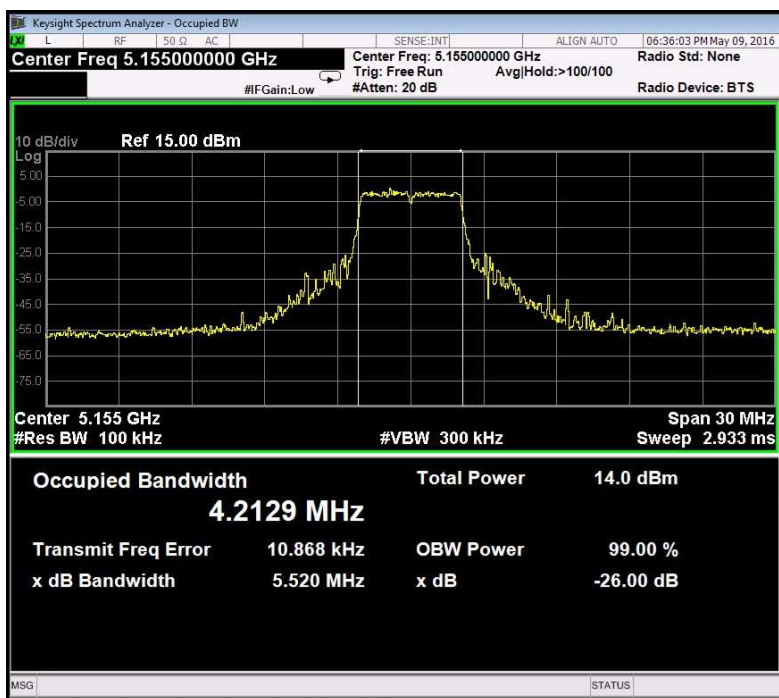


Figure 315: 5 MHz, 17 dBi, Low Channel: 99% OBW: Measured at Ch.0

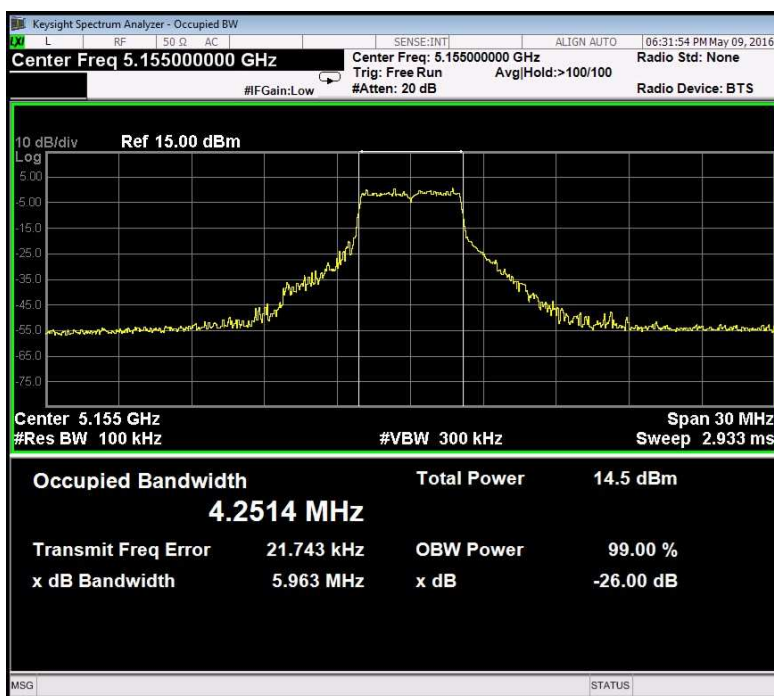


Figure 316: 5 MHz, 17 dBi, Low Channel: 99% OBW: Measured at Ch.1

5.3.7.5.8 5 MHz MODULATION BANDWIDTH, 17 dBi ANTENNA, MID CHANNEL - 5200 MHz

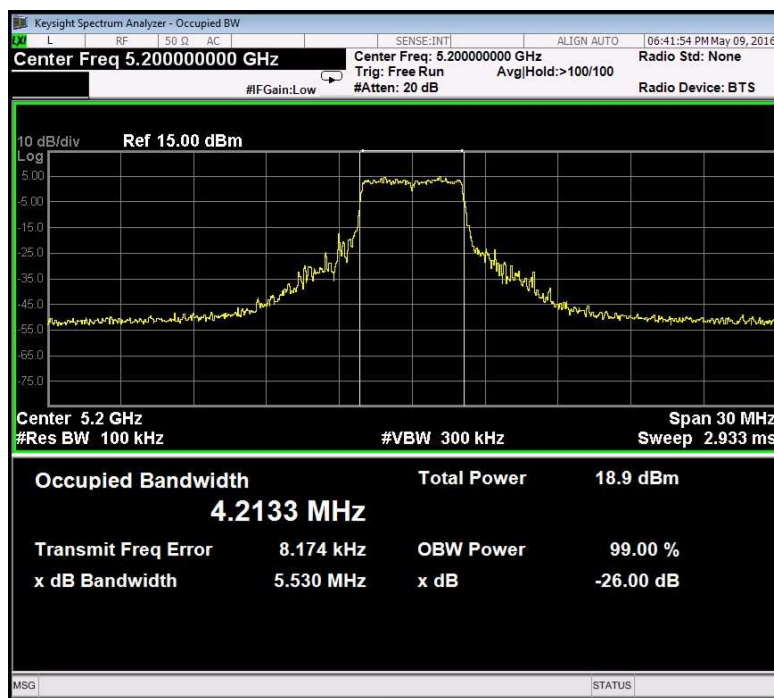


Figure 317: 5 MHz, 17 dBi, Mid Channel: 99% OBW: Measured at Ch.0

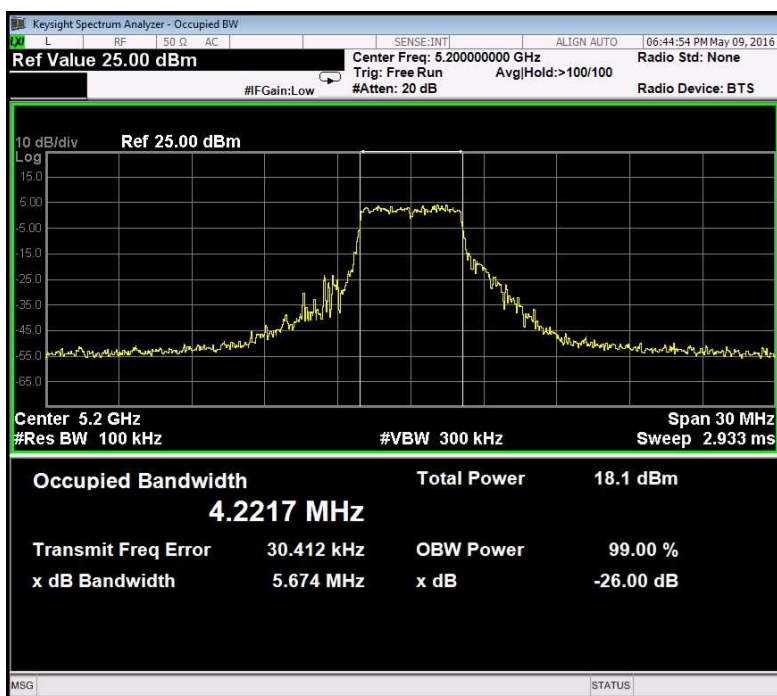


Figure 318: 5 MHz, 17 dBi, Mid Channel: 99% OBW: Measured at Ch.1

5.3.7.5.9 5 MHz MODULATION BANDWIDTH, 17 dBi ANTENNA, HIGH CHANNEL - 5245 MHz

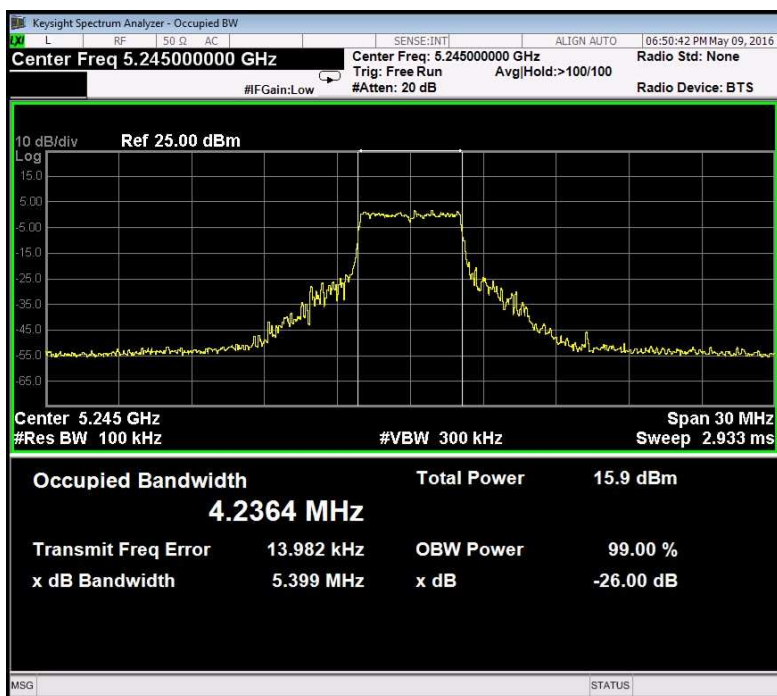


Figure 319: 5 MHz, 17 dBi, High Channel: 99% OBW: Measured at Ch.0

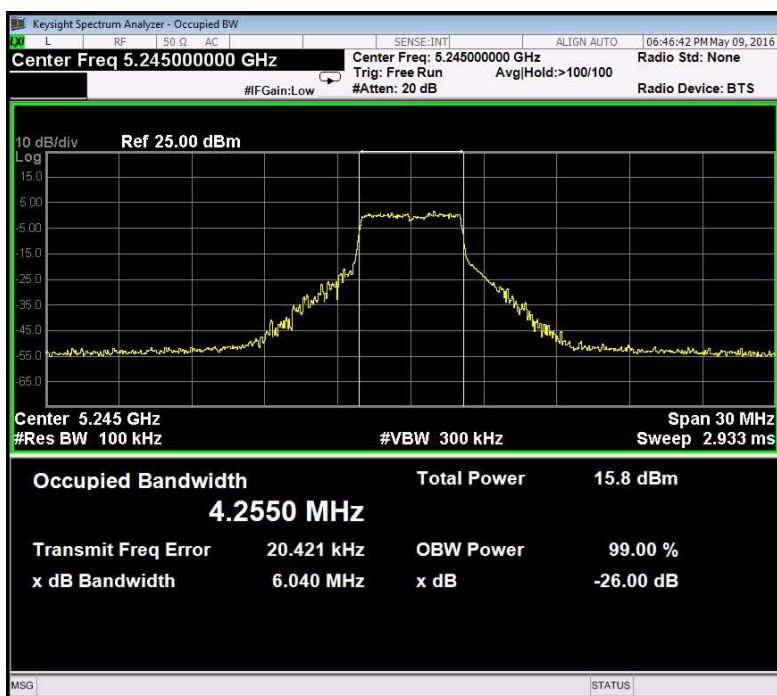


Figure 320: 5 MHz, 17 dBi, High Channel: 99% OBW: Measured at Ch.1

5.3.7.5.10 5 MHz MODULATION BANDWIDTH, 6 dBi POWER, LOW CHANNEL - 5115 MHz

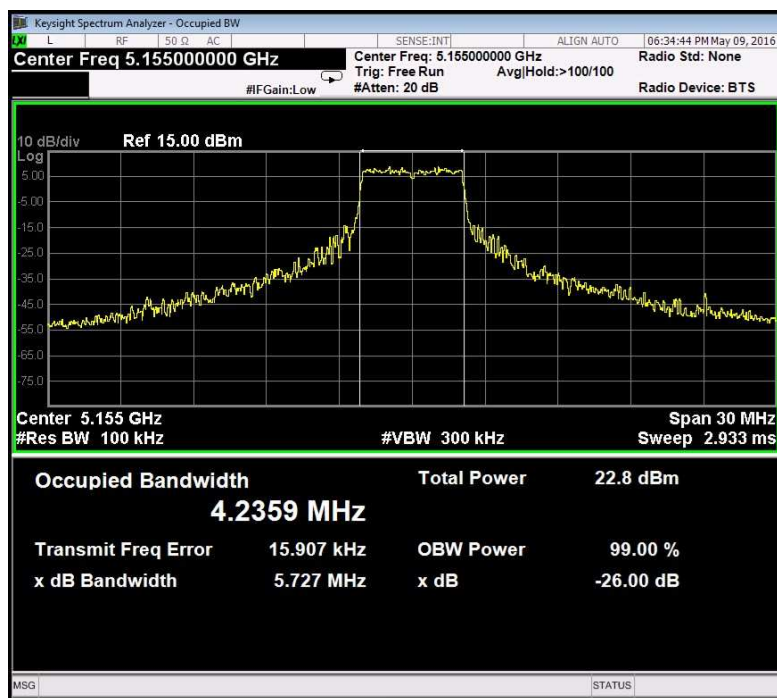


Figure 321: 5 MHz, 6 dBi, Low Channel: 99% OBW: Measured at Ch.0

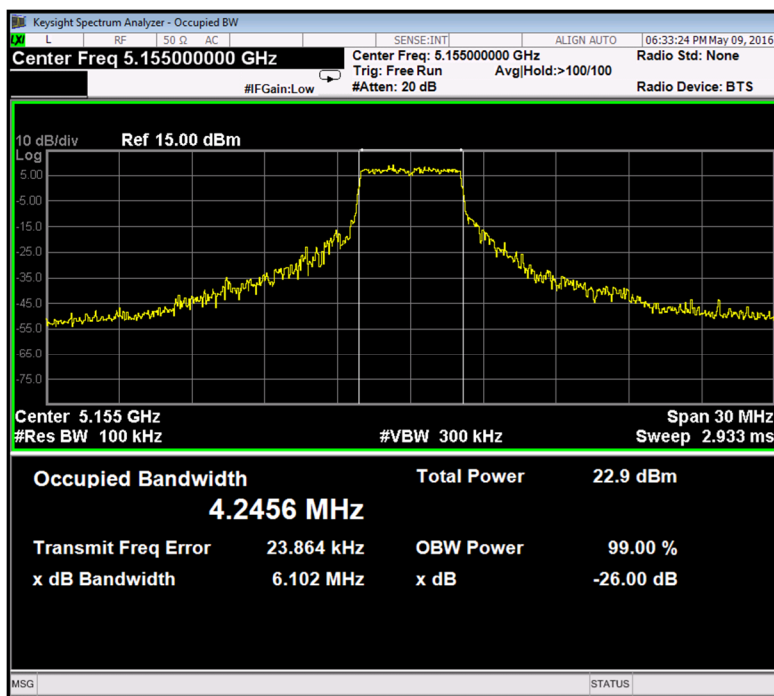


Figure 322: 5 MHz, 6 dBi, Low Channel: 99% OBW: Measured at Ch.1

5.3.7.5.11 5 MHz MODULATION BANDWIDTH, 6 dBi POWER, MID CHANNEL - 5200 MHz

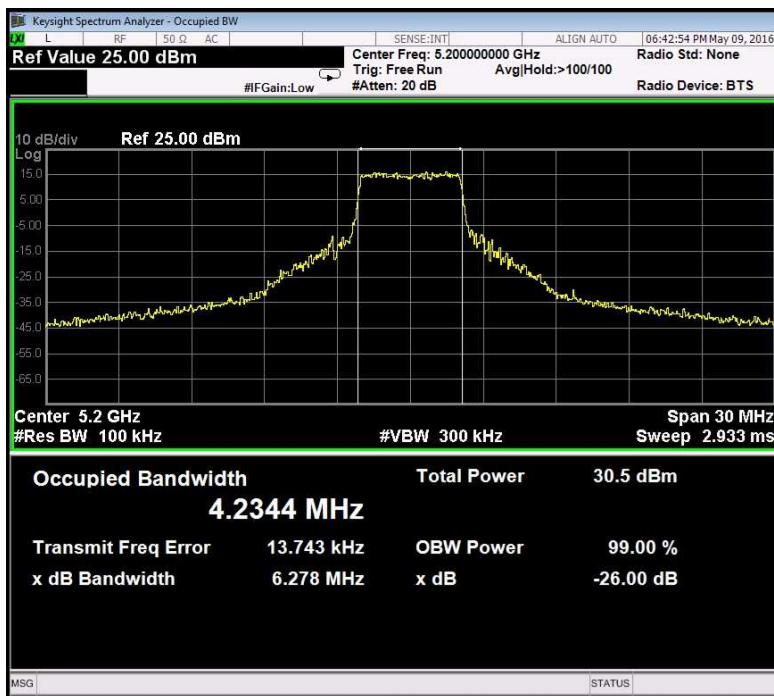


Figure 323: 5 MHz, 6 dBi, Mid Channel: 99% OBW: Measured at Ch.0

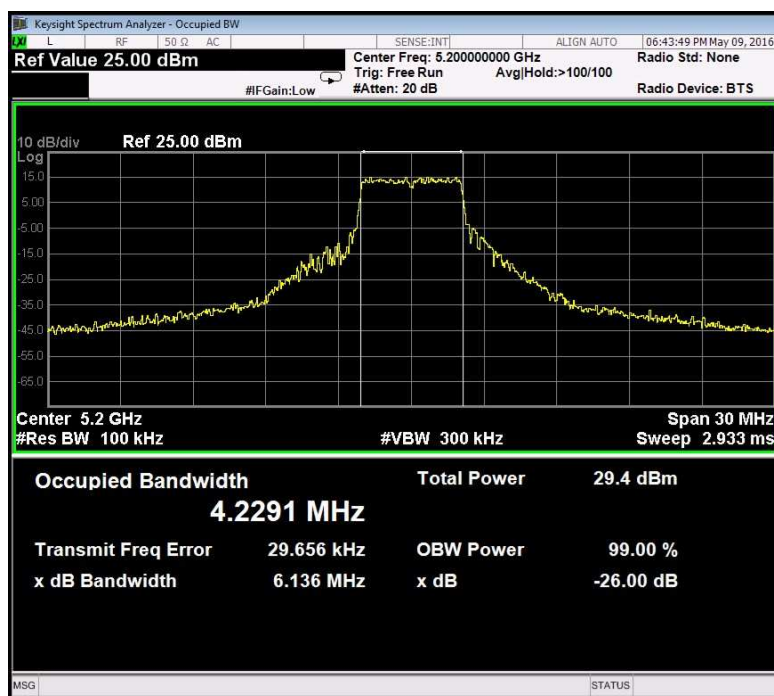


Figure 324: 5 MHz, 6 dBi, Mid Channel: 99% OBW: Measured at Ch.1

5.3.7.5.12 5 MHz MODULATION BANDWIDTH, 6 dBi POWER, HIGH CHANNEL - 5245 MHz

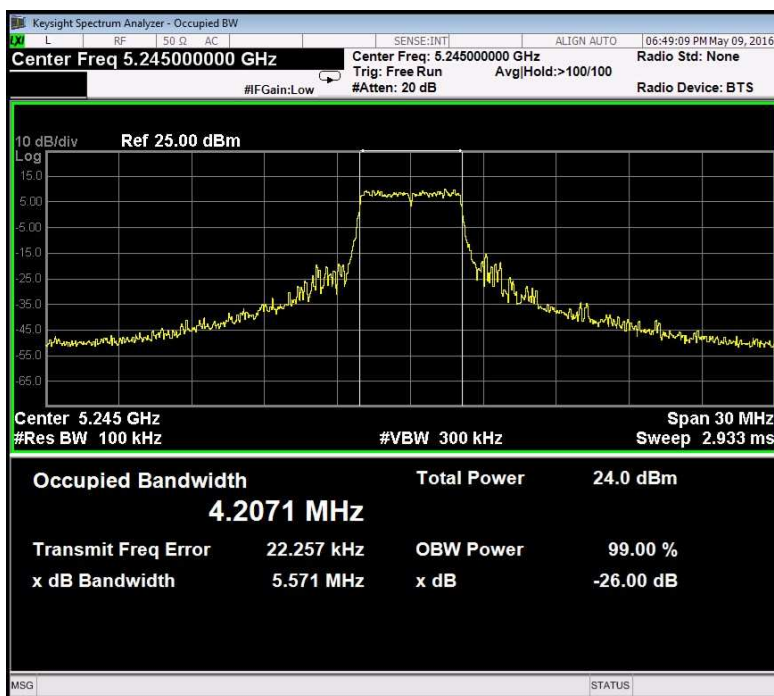


Figure 325: 5 MHz, 6 dBi, High Channel: 99% OBW: Measured at Ch.0

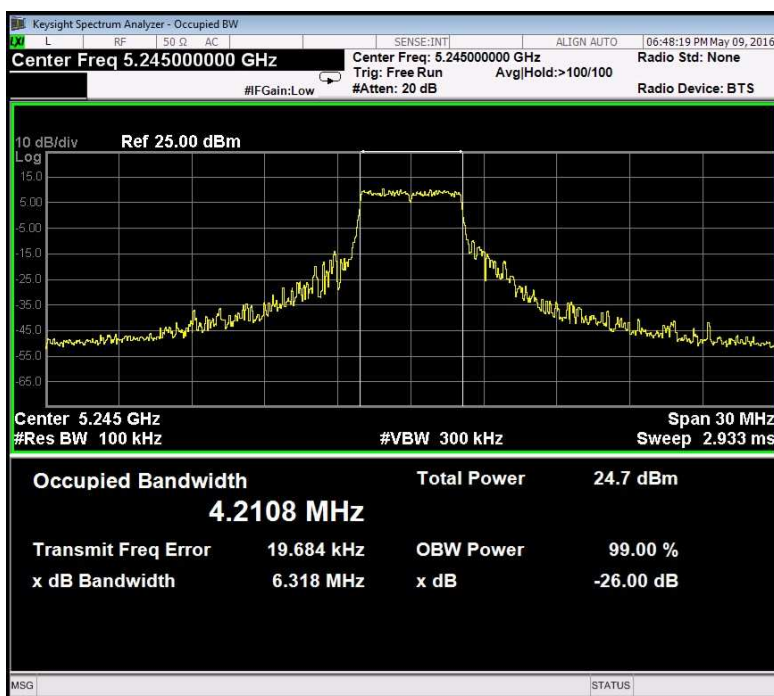


Figure 326: 5 MHz, 6 dBi, High Channel: 99% OBW: Measured at Ch.1

5.3.7.6 RESULT

The 99% Occupied Channel bandwidth measurements for all channels in both 40 MHz & 5 MHz Modulation Bandwidths has been measured and tabulated in below table.

Test Condition	Modulation Bandwidth (MHz)	Antenna path	Channel Frequency (MHz)	Recorded value (MHz)
17 dBi Antenna	40	Ch. 0	5180	36.181
17 dBi Antenna	40	Ch. 1	5180	36.179
17 dBi Antenna	40	Ch. 0	5200	36.265
17 dBi Antenna	40	Ch. 1	5200	36.271
17 dBi Antenna	40	Ch. 0	5220	36.058
17 dBi Antenna	40	Ch. 1	5220	36.096
6 dBi Antenna	40	Ch. 0	5180	36.156
6 dBi Antenna	40	Ch. 1	5180	36.135
6 dBi Antenna	40	Ch. 0	5200	36.232
6 dBi Antenna	40	Ch. 1	5200	36.252
6 dBi Antenna	40	Ch. 0	5220	36.175
6 dBi Antenna	40	Ch. 1	5220	36.180

Table 18: Result for 99% OBW for 40 MHz Modulation Bandwidth

Test Condition	Modulation Bandwidth (MHz)	Antenna path	Channel Frequency (MHz)	Recorded value (MHz)
17 dBi Antenna	5	Ch. 0	5115	4.2129
17 dBi Antenna	5	Ch. 1	5115	4.2514
17 dBi Antenna	5	Ch. 0	5200	4.2133
17 dBi Antenna	5	Ch. 1	5200	4.2217
17 dBi Antenna	5	Ch. 0	5245	4.2364
17 dBi Antenna	5	Ch. 1	5245	4.2550
6 dBi Antenna	5	Ch. 0	5115	4.2359
6 dBi Antenna	5	Ch. 1	5115	4.2456
6 dBi Antenna	5	Ch. 0	5200	4.2344
6 dBi Antenna	5	Ch. 1	5200	4.2291
6 dBi Antenna	5	Ch. 0	5245	4.2071
6 dBi Antenna	5	Ch. 1	5245	4.2108

Table 19: Result for 99% OBW for 5 MHz Modulation Bandwidth

ANNEXURE I: EUT SOFTWARE SETTINGS

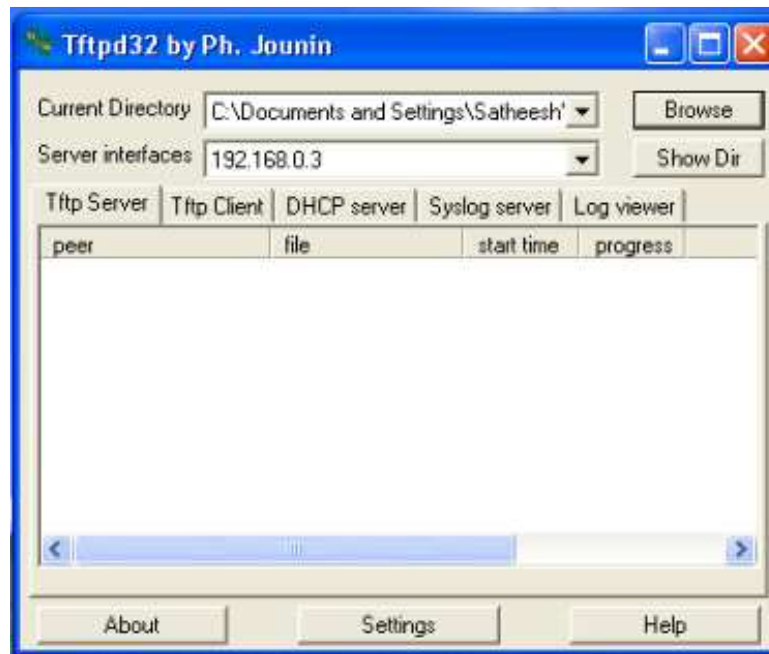


Figure 327: tftpd32 application screenshot



Figure 328: tftpd32 application initialization root_ screenshot



Figure 329: Tera term application screenshot

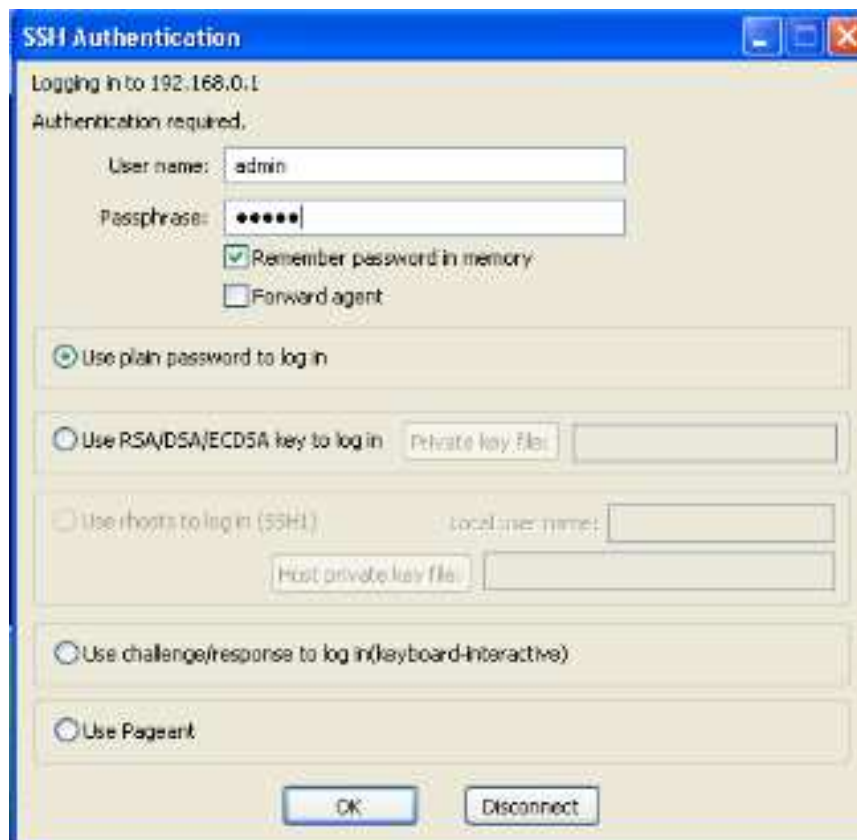


Figure 330: Tera term application Login screenshot

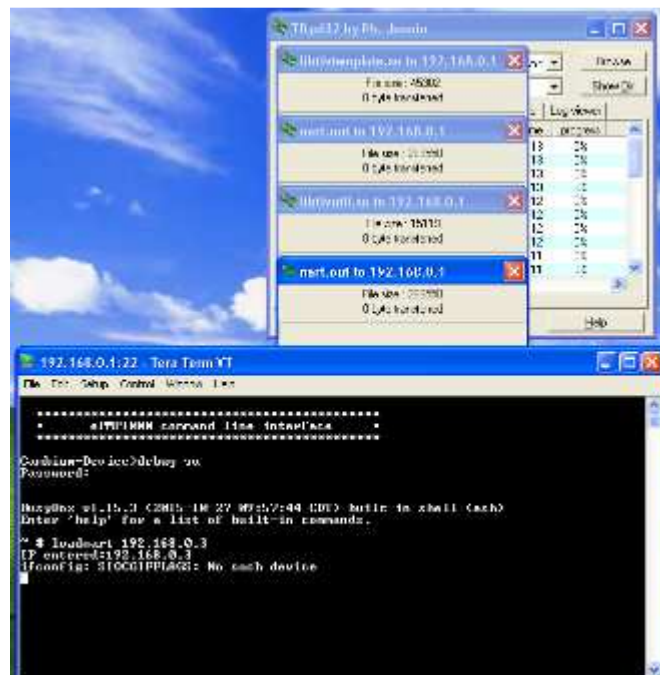


Figure 331: Initializing EUT screenshot

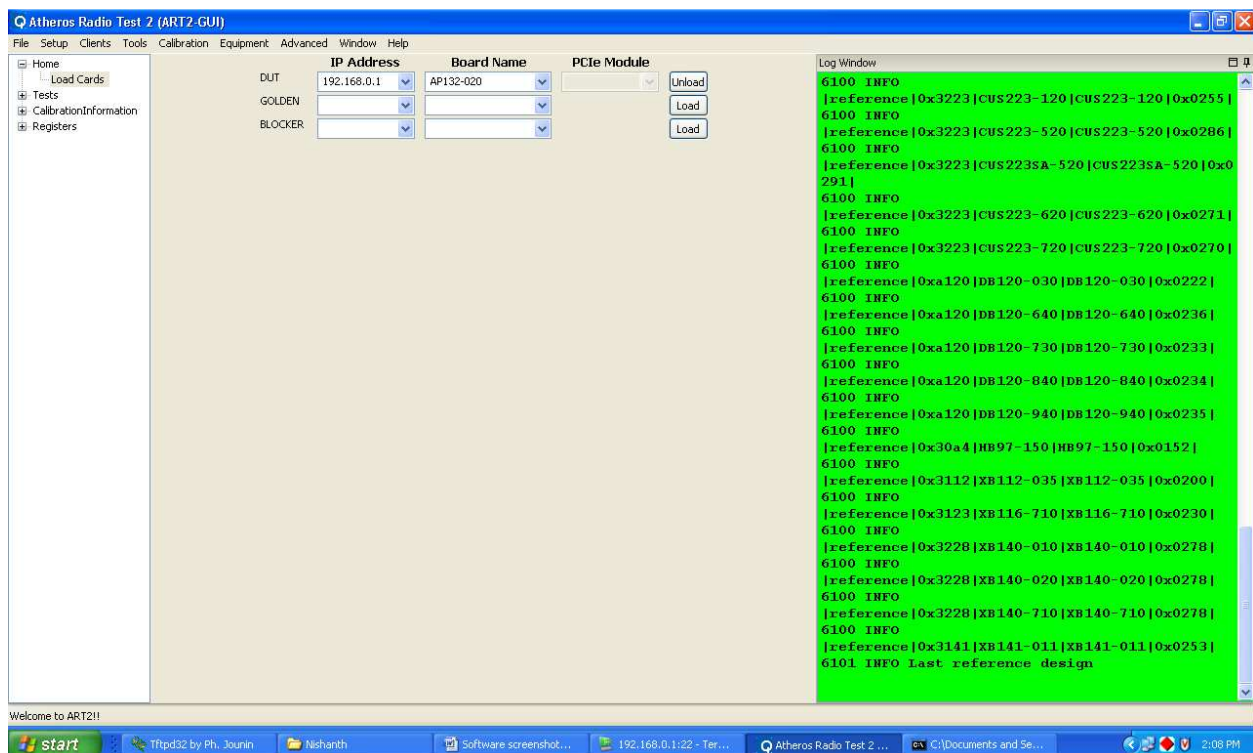


Figure 332: Atheros Radio Test GUI screenshot-1

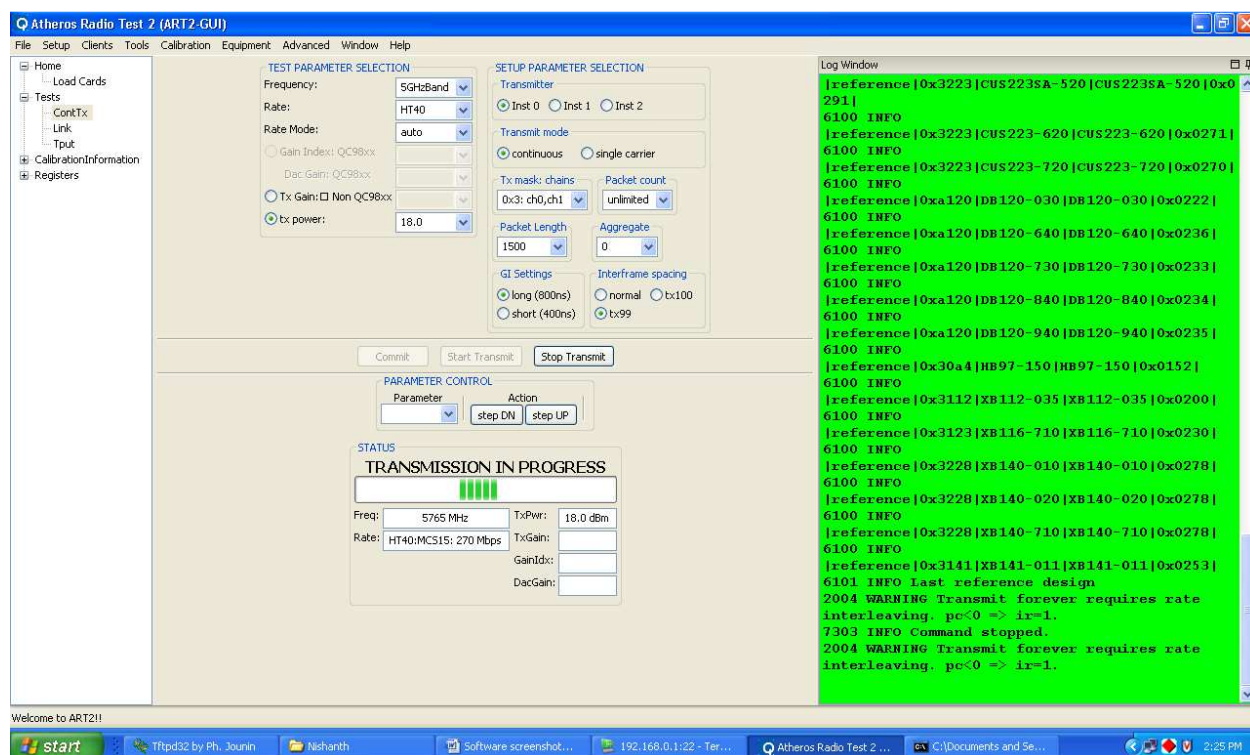


Figure 333: Atheros Radio Test GUI screenshot -2

ANNEXURE II: ACRONYMS

dB μ V	Decibel micro Volts
dBm	Decibel in milli watt
EUT	Equipment Under Test
FCC	Federal Communications Commission
GHz	Giga Hertz
kHz	Kilo Hertz
LISN	Line Impedance Stabilization Network
MHz	Mega Hertz
POE	Power over Ethernet
PSD	Power Spectral density
QP	Quasi Peak
RF	Radio Frequency

END OF REPORT