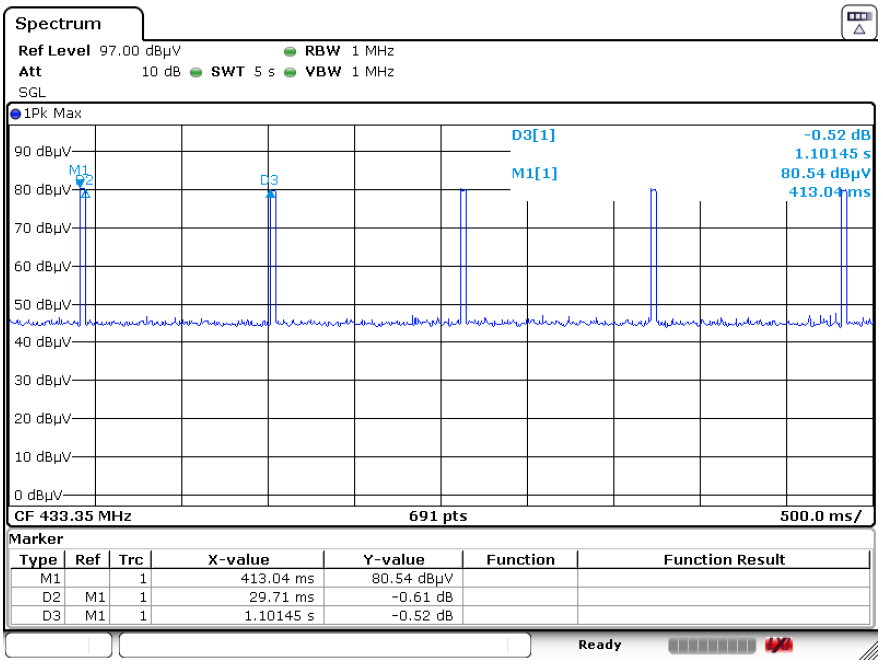
Appendix A for KSCR220500084001

1 Spurious Emissions

1.1 Field Strength of the Fundamental Signal

Test channel	Freq. (MHz)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
Channel 1	433.35	76.72	100.81	-24.09	Peak	Vertical
		86.35	100.81	-14.46	Peak	Horizontal
		66.18	80.81	-14.63	AVG	Vertical
		75.81	80.81	-5.00	AVG	Horizontal
Channel 6	434.6	77.91	100.85	-22.94	Peak	Vertical
		86.10	100.85	-14.75	Peak	Horizontal
		67.37	80.85	-13.48	AVG	Vertical
		75.56	80.85	-5.29	AVG	Horizontal

433.35MHz:



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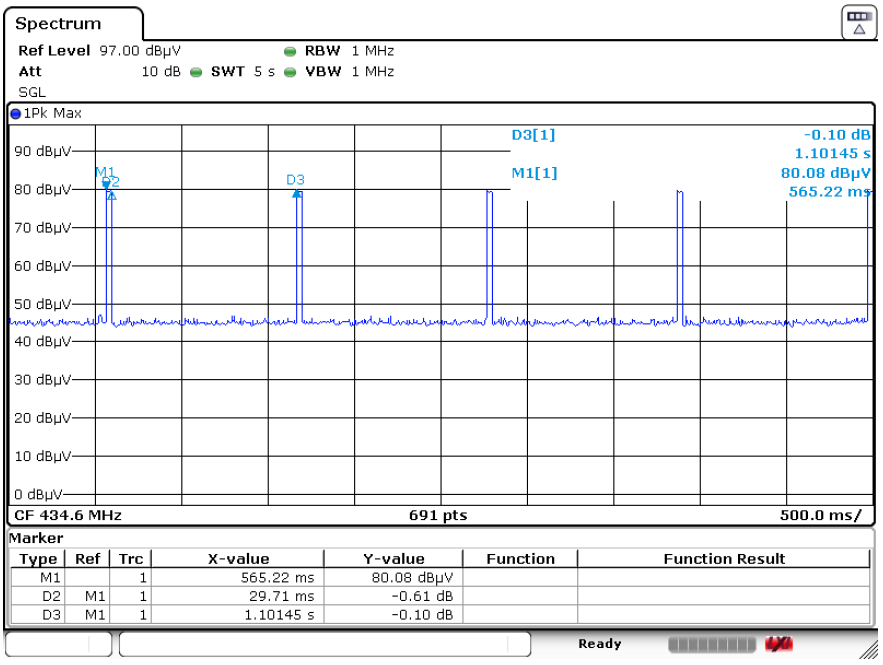
Remark:
1. If the Peak value below the AV Limit, the AV test doesn't perform for this submission.
2. Average level = Peak level - Duty Cycle Factor
3. Duty Cycle Factor = 20*log (Duty Cycle) = 20*log(29.71/100) = -10.54dB

434.6MHz:



Remark:
1. If the Peak value below the AV Limit, the AV test doesn't perform for this submission.
2. Average level = Peak level - Duty Cycle Factor
3. Duty Cycle Factor = 20*log (Duty Cycle) = 20*log(29.71/100) = -10.54dB

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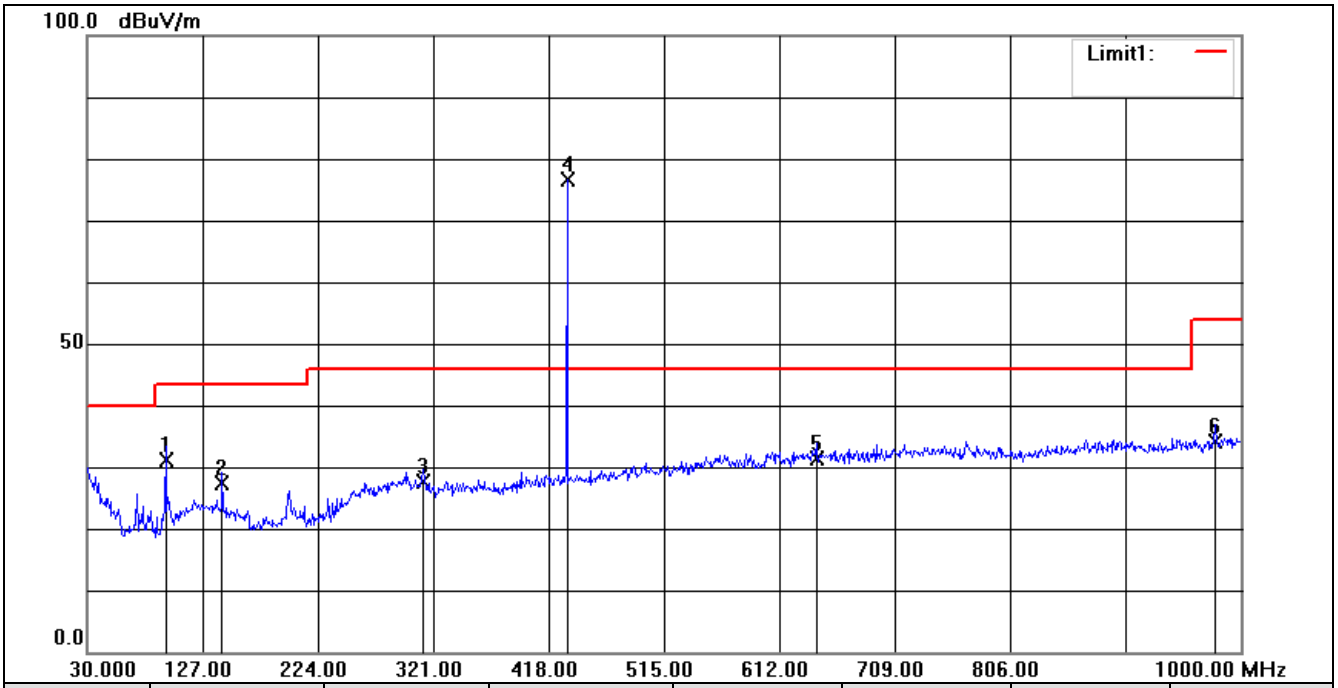
1.2 Spurious Emissions

Below 1GHz:

433.35MHz:

Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	95.9600	14.87	16.29	31.16	43.50	-12.34	QP
2	143.4900	9.19	18.19	27.38	43.50	-16.12	QP
3	312.2700	6.64	20.94	27.58	46.00	-18.42	QP
4	433.5200	52.73	23.99	76.72	100.81	-24.09	Peak
5	643.0400	3.66	27.80	31.46	46.00	-14.54	QP
6	978.6600	31.75	2.47	34.22	54.00	-19.78	QP

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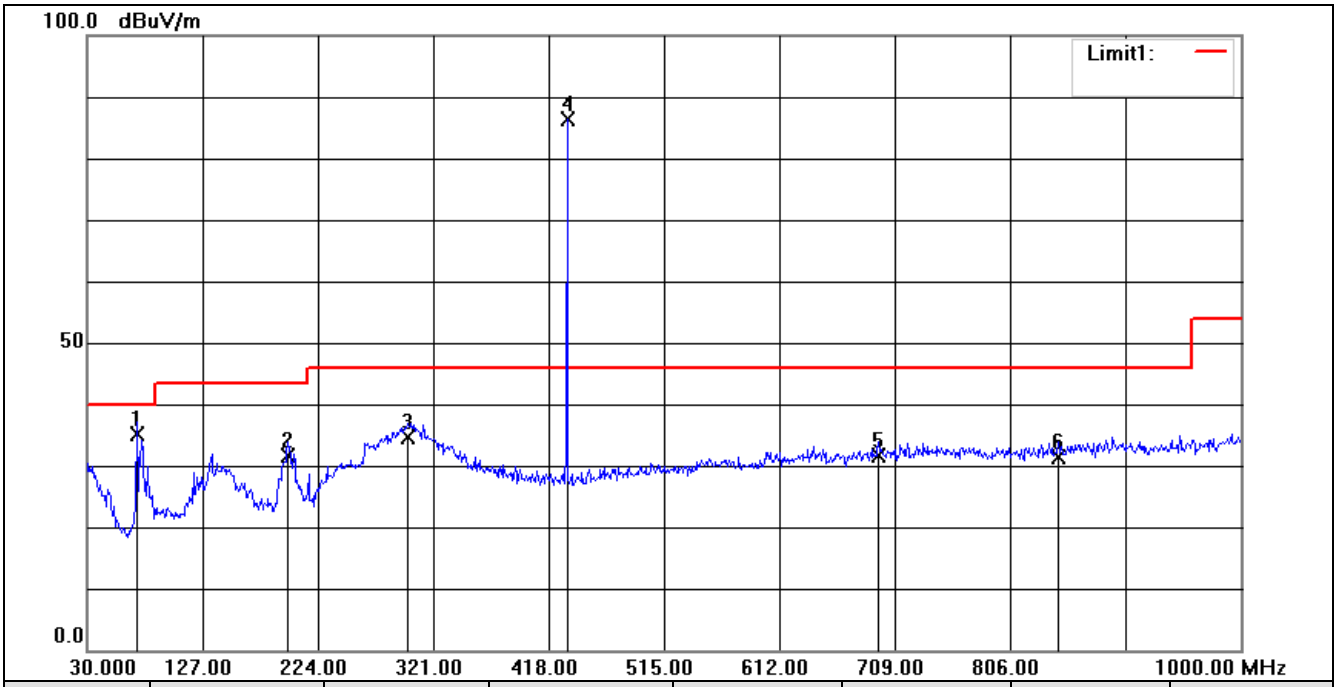
Horizontal:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	71.7100	19.45	15.66	35.11	40.00	-4.89	QP
2	198.7800	14.92	16.70	31.62	43.50	-11.88	QP
3	299.6600	13.85	20.73	34.58	46.00	-11.42	QP
4	433.5200	62.36	23.99	86.35	100.81	-14.46	Peak
5	695.4200	29.09	2.47	31.56	46.00	-14.44	QP
6	846.7400	29.33	2.14	31.47	46.00	-14.53	QP

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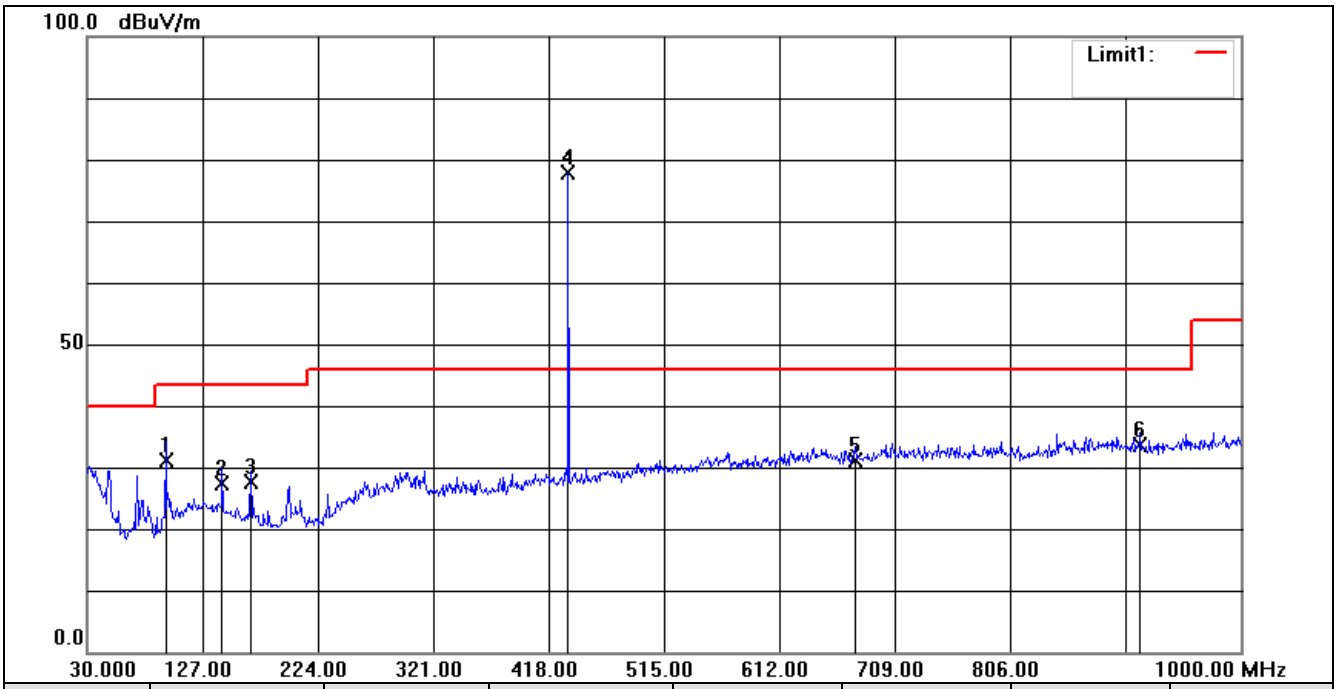
434.6MHz:

Vertical:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	95.9600	14.90	16.29	31.19	43.50	-12.31	QP
2	143.4900	9.29	18.19	27.48	43.50	-16.02	QP
3	167.7400	10.41	17.10	27.51	43.50	-15.99	QP
4	434.4900	53.92	23.99	77.91	100.85	-22.94	Peak
5	676.0200	28.79	2.43	31.22	46.00	-14.78	QP
6	915.6100	31.16	2.51	33.67	46.00	-12.33	QP

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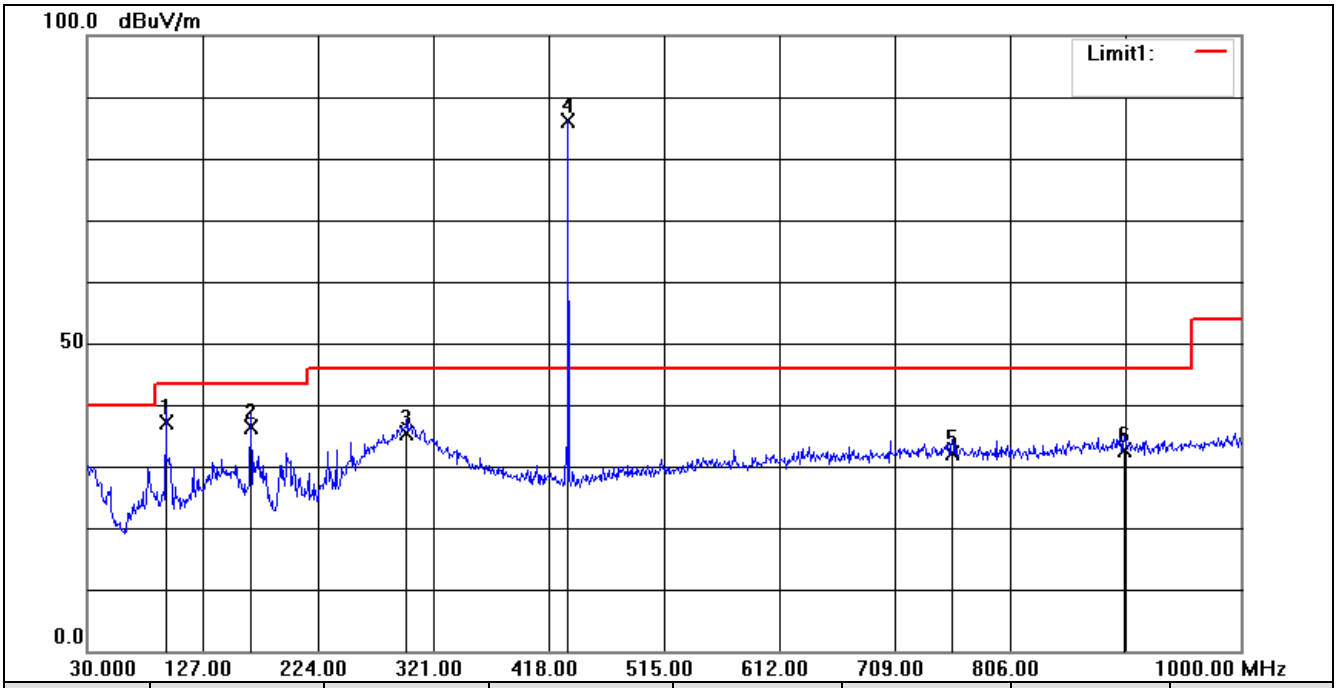
Horizontal:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	95.9600	20.82	16.29	37.11	43.50	-6.39	QP
2	167.7400	19.25	17.10	36.35	43.50	-7.15	QP
3	298.6900	14.77	20.71	35.48	46.00	-10.52	QP
4	434.4900	62.11	23.99	86.10	100.85	-14.75	Peak
5	757.5000	29.77	2.34	32.11	46.00	-13.89	QP
6	902.0300	30.23	2.46	32.69	46.00	-13.31	QP

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Above 1GHz

433.35MHz:

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	polarization
1	1252.000	52.19	-19.51	32.68	54.00	-21.32	peak	Vertical
2	2208.000	54.48	-15.07	39.41	54.00	-14.59	peak	Vertical
3	2656.000	53.76	-14.02	39.74	54.00	-14.26	peak	Vertical
4	1840.000	53.23	-17.67	35.56	54.00	-18.44	peak	Horizontal
5	2524.000	52.74	-14.32	38.42	54.00	-15.58	peak	Horizontal
6	3300.000	55.68	-13.05	42.63	54.00	-11.37	peak	Horizontal

434.6MHz:

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	polarization
1	2292.000	53.62	-14.92	38.70	54.00	-15.30	peak	Vertical
2	3260.000	54.81	-12.97	41.84	54.00	-12.16	peak	Vertical
3	3756.000	55.83	-11.77	44.06	54.00	-9.94	peak	Vertical
4	2804.000	54.73	-13.84	40.89	54.00	-13.11	peak	Horizontal
5	3420.000	55.03	-13.14	41.89	54.00	-12.11	peak	Horizontal
6	3828.000	56.38	-11.66	44.72	54.00	-9.28	peak	Horizontal

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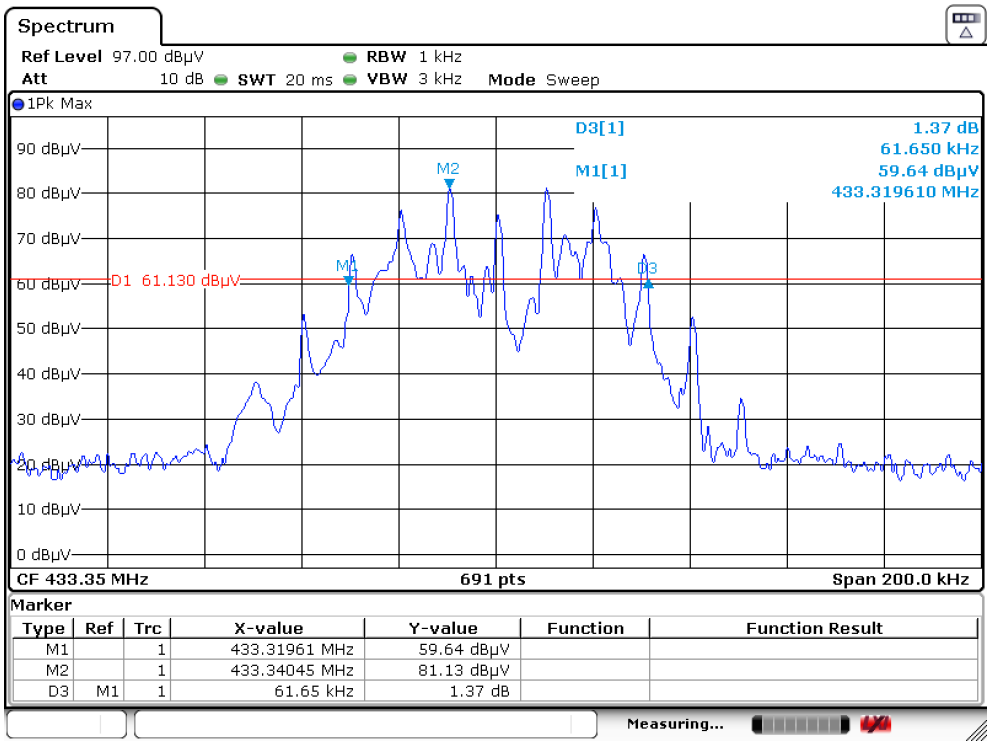
2 20dB Bandwidth

Measurement Data:

Frequency (MHz)	20dB bandwidth (kHz)	Limit (kHz)	Results
433.35	61.65	1083.375	Pass
434.60	61.65	1086.5	Pass

Test plot as follows:



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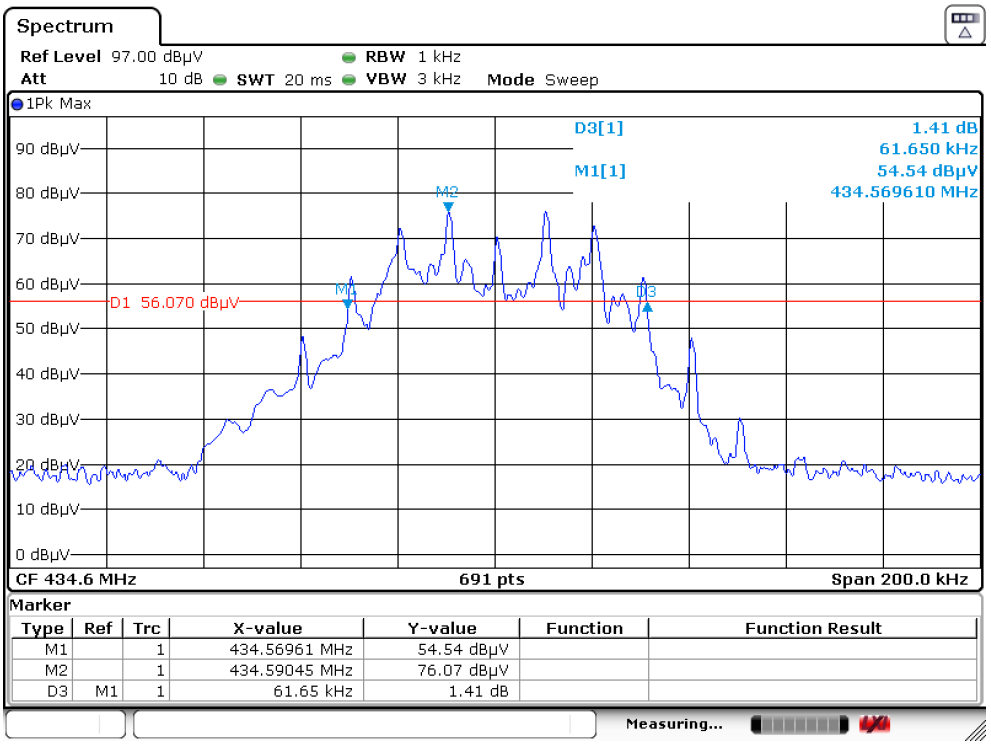

3 Dwell Time

Measurement Data:

Test item	Limit (s)	Results
Transmission Duration	≤5s	Pass

Test plot as follows:

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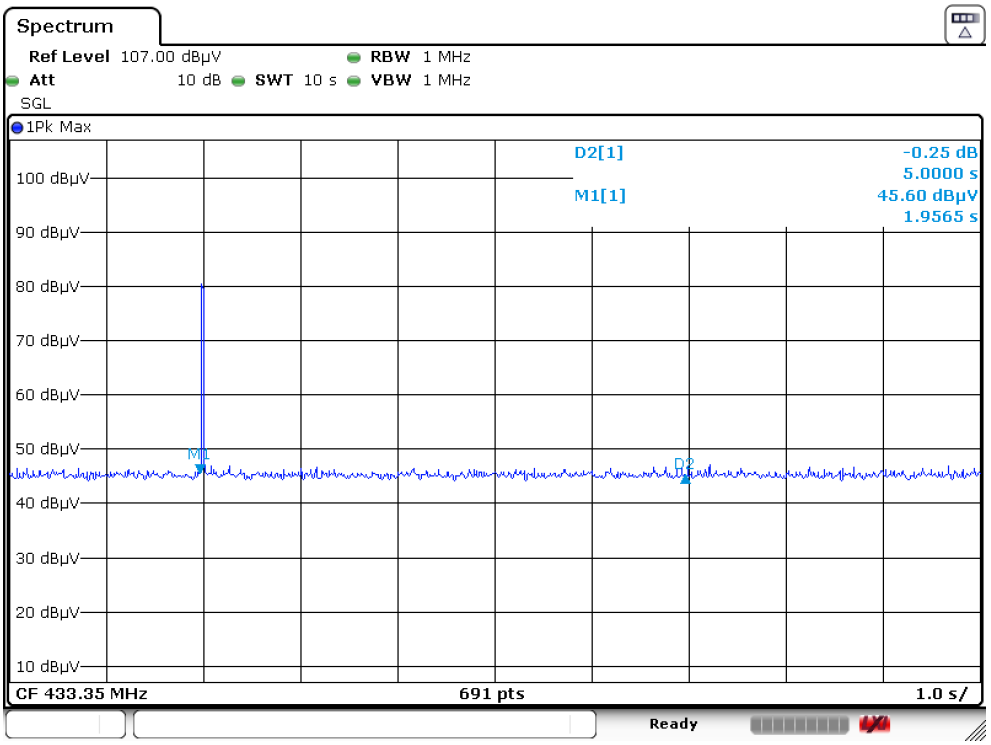

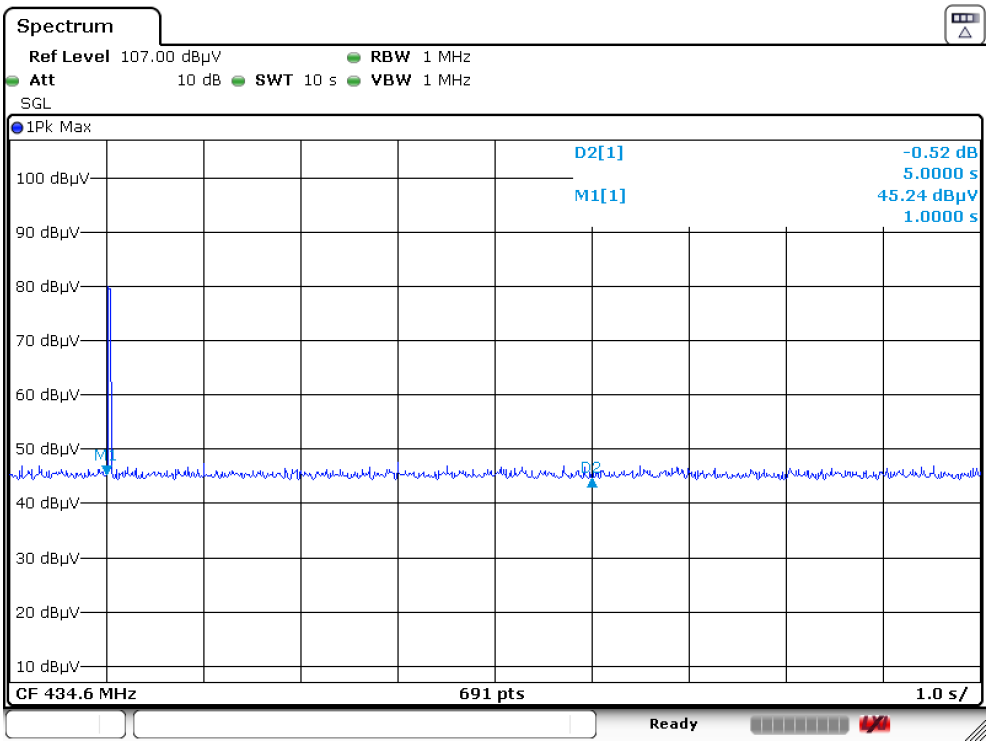

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