



Test Report - FCC PART 90 Booster Class B (B9B) Applicant: Fiplex Communications Inc.

Signature: _____

A handwritten signature in black ink, appearing to read 'Tim Royer'.

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Date of Signature 2026-04-22

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Prepared By: Mark Learner, Technical Writer

This test report relates only to the items tested as identified and is not valid for any subsequent changes or modifications made to the equipment under test.

Table of Contents

1.	APPLICANT INFORMATION.....	9
1.1	TEST RESULT SUMMARY.....	9
2.	LOCATION OF TESTING.....	12
2.1	TEST LABORATORY.....	12
3.	TEST SAMPLE(S) (EUT/DUT).....	12
3.1	DEFINITIONS.....	13
3.2	DESCRIPTION OF THE EUT.....	14
3.3	CONFIGURATION OF EUT.....	15
3.4	TEST SETUP OF EUT.....	15
4.	TEST METHODS & APPLICABLE REGULATORY LIMITS.....	16
4.1	TEST METHODS/STANDARDS/GUIDANCE:.....	16
4.2	APPLIED LIMITS AND REGULATORY LIMITS:.....	16
5.	MEASUREMENT UNCERTAINTY.....	16
6.	ENVIRONMENTAL CONDITIONS.....	17
6.1	TEMPERATURE & HUMIDITY.....	17
7.	LIST OF TEST EQUIPMENT AND TEST FACILITY.....	18
7.1	LIST OF TEST EQUIPMENT.....	18
8.	TEST RESULTS.....	20
8.1	POWER AT THE FINAL AMPLIFIER.....	21
8.2	RF OUTPUT POWER & GAIN.....	22
8.3	OUT-OF-BAND REJECTION.....	25
8.3.1	758 – 775, Downlink, Class B.....	26
8.3.2	788 – 805 MHz, Uplink, Class B.....	27
8.3.3	806 – 824 MHz, Uplink, Class B.....	28
8.3.4	851 – 869 MHz, Downlink, Class B.....	29
8.4	BANDWIDTH & EMISSION.....	30
8.5	INPUT VS OUTPUT SIGNAL COMPARISON.....	31
8.5.1	6.25 kHz FM, Input Signal.....	36
8.5.2	12.5 kHz FM, Input Signal.....	37
8.5.3	25 kHz FM, Input Signal.....	38
8.5.4	C4FM, Input Signal.....	39
8.5.5	H-CPM, Input Signal.....	40
8.5.6	H-DQPSK, Input Signal.....	41
8.5.7	6.25 kHz, FM, DL Mask C, AGC, 758 MHz.....	42
8.5.8	6.25 kHz, FM, DL Mask C, AGC +3, 758 MHz.....	43
8.5.9	12.5 kHz, FM, DL Mask C, AGC, 758 MHz.....	44
8.5.10	12.5 kHz, FM, DL Mask C, AGC+3, 758 MHz.....	45
8.5.11	25 kHz FM, DL Mask C, AGC, 758 MHz.....	46
8.5.12	25 kHz FM, DL Mask C, AGC+3, 758 MHz.....	47

8.5.13	C4FM, DL Mask C, AGC, 758 MHz	48
8.5.14	C4FM, DL Mask C, AGC+3, 758 MHz.....	49
8.5.15	H-CPM, DL Mask C, AGC, 758 MHz.....	50
8.5.16	H-CPM, DL Mask C, AGC+3, 758 MHz.....	51
8.5.17	H-DQPSK, DL Mask C, AGC, 758 MHz.....	52
8.5.18	H-DQPSK, DL Mask C, AGC+3, 758 MHz.....	53
8.5.19	6.25 kHz, FM, DL Mask C, AGC, 761 MHz	54
8.5.20	6.25 kHz, FM, DL Mask C, AGC+3, 761 MHz	55
8.5.21	12.5 kHz, FM, DL Mask C, AGC, 761 MHz.....	56
8.5.22	12.5 kHz, FM, DL Mask C, AGC+3, 761 MHz.....	57
8.5.23	25 kHz FM, DL Mask C, AGC, 761 MHz	58
8.5.24	25 kHz FM, DL Mask C, AGC+3, 761 MHz.....	59
8.5.25	C4FM, DL Mask C, AGC, 761 MHz	60
8.5.26	C4FM, DL Mask C, AGC+3, 761 MHz.....	61
8.5.27	H-CPM, DL Mask C, AGC, 761 MHz.....	62
8.5.28	H-CPM, DL Mask C, AGC+3, 761 MHz.....	63
8.5.29	H-DQPSK, DL Mask C, AGC, 761 MHz.....	64
8.5.30	H-DQPSK, DL Mask C, AGC+3, 761 MHz.....	65
8.5.31	6.25 kHz, FM, DL Mask C, AGC, 764 MHz.....	66
8.5.32	6.25 kHz, FM, DL Mask C, AGC+3, 764 MHz.....	67
8.5.33	12.5 kHz, FM, DL Mask C, AGC, 764 MHz	68
8.5.34	12.5 kHz, FM, DL Mask C, AGC+3, 764 MHz.....	69
8.5.35	25 kHz FM, DL Mask C, AGC, 764 MHz.....	70
8.5.36	25 kHz FM, DL Mask C, AGC+3, 764 MHz.....	71
8.5.37	C4FM, DL Mask C, AGC, 764 MHz	72
8.5.38	C4FM, DL Mask C, AGC+3, 764 MHz	73
8.5.39	H-CPM, DL Mask C, AGC, 764 MHz	74
8.5.40	H-CPM, DL Mask C, AGC+3, 764 MHz.....	75
8.5.41	H-DQPSK, DL Mask C, AGC, 764 MHz	76
8.5.42	H-DQPSK, DL Mask C, AGC+3, 764 MHz.....	77
8.5.43	6.25 kHz, FM, UL Mask C, AGC, 788 MHz.....	78
8.5.44	6.25 kHz, FM, UL Mask C, AGC+3, 788 MHz	79
8.5.45	12.5 kHz, FM, UL Mask C, AGC, 788 MHz	80
8.5.46	12.5 kHz, FM, UL Mask C, AGC+3, 788 MHz.....	81
8.5.47	25 kHz FM, UL Mask C, AGC, 788 MHz	82
8.5.48	25 kHz FM, UL Mask C, AGC+3, 788 MHz	83
8.5.49	C4FM, UL Mask C, AGC, 788 MHz	84
8.5.50	C4FM, UL Mask C, AGC+3, 788 MHz.....	85
8.5.51	H-CPM, UL Mask C, AGC, 788 MHz.....	86
8.5.52	H-CPM, UL Mask C, AGC+3, 788 MHz.....	87
8.5.53	H-DQPSK, UL Mask C, AGC, 788 MHz.....	88
8.5.54	H-DQPSK, UL Mask C, AGC+3, 788 MHz.....	89
8.5.55	6.25 kHz, FM, UL Mask C, AGC, 791 MHz	90
8.5.56	6.25 kHz, FM, UL Mask C, AGC+3, 791 MHz.....	91
8.5.57	12.5 kHz, FM, UL Mask C, AGC, 791 MHz.....	92
8.5.58	12.5 kHz, FM, UL Mask C, AGC+3, 791 MHz.....	93
8.5.59	25 kHz FM, UL Mask C, AGC, 791 MHz	94
8.5.60	25 kHz FM, UL Mask C, AGC+3, 791 MHz.....	95

8.5.61	C4FM, UL Mask C, AGC, 791 MHz.....	96
8.5.62	C4FM, UL Mask C, AGC+3, 791 MHz.....	97
8.5.63	H-CPM, UL Mask C, AGC, 791 MHz.....	98
8.5.64	H-CPM, UL Mask C, AGC+3, 791 MHz.....	99
8.5.65	H-DQPSK, UL Mask C, AGC, 791 MHz.....	100
8.5.66	H-DQPSK, UL Mask C, AGC+3, 791 MHz.....	101
8.5.67	6.25 kHz, FM, UL Mask C, AGC, 794 MHz.....	102
8.5.68	6.25 kHz, FM, UL Mask C, AGC+3, 794 MHz.....	103
8.5.69	12.5 kHz, FM, UL Mask C, AGC, 794 MHz.....	104
8.5.70	12.5 kHz, FM, UL Mask C, AGC+3, 794 MHz.....	105
8.5.71	25 kHz FM, UL Mask C, AGC, 794 MHz.....	106
8.5.72	25 kHz FM, UL Mask C, AGC+3, 794 MHz.....	107
8.5.73	C4FM, UL Mask C, AGC, 794 MHz.....	108
8.5.74	C4FM, UL Mask C, AGC+3, 794 MHz.....	109
8.5.75	H-CPM, UL Mask C, AGC, 794 MHz.....	110
8.5.76	H-CPM, UL Mask C, AGC+3, 794 MHz.....	111
8.5.77	H-DQPSK, UL Mask C, AGC, 794 MHz.....	112
8.5.78	H-DQPSK, UL Mask C, AGC+3, 794 MHz.....	113
8.5.79	6.25 kHz, FM, UL Mask H, AGC, 806 MHz.....	114
8.5.80	6.25 kHz, FM, UL Mask H, AGC +3, 806 MHz.....	115
8.5.81	12.5 kHz, FM, UL Mask H, AGC, 806 MHz.....	116
8.5.82	12.5 kHz, FM, UL Mask H, AGC+3, 806 MHz.....	117
8.5.83	25 kHz FM, UL Mask H, AGC, 806 MHz.....	118
8.5.84	25 kHz FM, UL Mask H, AGC+3, 806 MHz.....	119
8.5.85	C4FM, UL Mask H, AGC, 806 MHz.....	120
8.5.86	C4FM, UL Mask H, AGC+3, 806 MHz.....	121
8.5.87	H-CPM, UL Mask H, AGC, 806 MHz.....	122
8.5.88	H-CPM, UL Mask H, AGC+3, 806 MHz.....	123
8.5.89	H-DQPSK, UL Mask H, AGC, 806 MHz.....	124
8.5.90	H-DQPSK, UL Mask H, AGC+3, 806 MHz.....	125
8.5.91	6.25 kHz, FM, UL Mask D, AGC, 809 MHz.....	126
8.5.92	6.25 kHz, FM, UL Mask G, AGC, 809 MHz.....	127
8.5.93	6.25 kHz, FM, UL Mask H, AGC, 809 MHz.....	128
8.5.94	6.25 kHz, FM, UL Mask D, AGC+3, 809 MHz.....	129
8.5.95	6.25 kHz, FM, UL Mask G, AGC+3, 809 MHz.....	130
8.5.96	6.25 kHz, FM, UL Mask H, AGC+3, 809 MHz.....	131
8.5.97	12.5 kHz, FM, UL Mask D, AGC, 809 MHz.....	132
8.5.98	12.5 kHz, FM, UL Mask H, AGC, 809 MHz.....	133
8.5.99	12.5 kHz, FM, UL Mask D, AGC+3, 809 MHz.....	134
8.5.100	12.5 kHz, FM, UL Mask H, AGC+3, 809 MHz.....	135
8.5.101	25 kHz FM, UL Mask G, AGC, 809 MHz.....	136
8.5.102	25 kHz FM, UL Mask H, AGC, 809 MHz.....	137
8.5.103	25 kHz FM, UL Mask G, AGC+3, 809 MHz.....	138
8.5.104	25 kHz FM, UL Mask H, AGC+3, 809 MHz.....	139
8.5.105	C4FM, UL Mask D, AGC, 809 MHz.....	140
8.5.106	C4FM, UL Mask D, AGC+3, 809 MHz.....	141
8.5.107	H-CPM, UL Mask D, AGC, 809 MHz.....	142
8.5.108	H-CPM, UL Mask D, AGC+3, 809 MHz.....	143

8.5.109	H-DQPSK, UL Mask D, AGC, 809 MHz.....	144
8.5.110	H-DQPSK, UL Mask D, AGC+3, 809 MHz.....	145
8.5.111	6.25 kHz, FM, UL Mask D, AGC, 812 MHz.....	146
8.5.112	6.25 kHz, FM, UL Mask G, AGC, 812 MHz.....	147
8.5.113	6.25 kHz, FM, UL Mask D, AGC+3, 812 MHz.....	148
8.5.114	6.25 kHz, FM, UL Mask G, AGC+3, 812 MHz.....	149
8.5.115	12.5 kHz, FM, UL Mask D, AGC, 812 MHz.....	150
8.5.116	12.5 kHz, FM, UL Mask D, AGC+3, 812 MHz.....	151
8.5.117	25 kHz FM, UL Mask G, AGC, 812 MHz.....	152
8.5.118	25 kHz FM, UL Mask G, AGC+3, 812 MHz.....	153
8.5.119	C4FM, UL Mask D, AGC, 812 MHz.....	154
8.5.120	C4FM, UL Mask D, AGC+3, 812 MHz.....	155
8.5.121	H-CPM, UL Mask D, AGC, 812 MHz.....	156
8.5.122	H-CPM, UL Mask D, AGC+3, 812 MHz.....	157
8.5.123	H-DQPSK, UL Mask D, AGC, 812 MHz.....	158
8.5.124	H-DQPSK, UL Mask D, AGC+3, 812 MHz.....	159
8.5.125	6.25 kHz, FM, DL Mask H, AGC, 851 MHz.....	160
8.5.126	6.25 kHz, FM, DL Mask H, AGC+3, 851 MHz.....	161
8.5.127	12.5 kHz, FM, DL Mask H, AGC, 851 MHz.....	162
8.5.128	12.5 kHz, FM, DL Mask H, AGC+3, 851 MHz.....	163
8.5.129	25 kHz FM, DL Mask H, AGC, 851 MHz.....	164
8.5.130	25 kHz FM, DL Mask H, AGC+3, 851 MHz.....	165
8.5.131	C4FM, DL Mask H, AGC, 851 MHz.....	166
8.5.132	C4FM, DL Mask H, AGC+3, 851 MHz.....	167
8.5.133	H-CPM, DL Mask H, AGC, 851 MHz.....	168
8.5.134	H-CPM, DL Mask H, AGC+3, 851 MHz.....	169
8.5.135	H-DQPSK, DL Mask H, AGC, 851 MHz.....	170
8.5.136	H-DQPSK, DL Mask H, AGC+3, 851 MHz.....	171
8.5.137	6.25 kHz, FM, DL Mask H, AGC, 854 MHz.....	172
8.5.138	6.25 kHz, FM, DL Mask H, AGC+3, 854 MHz.....	173
8.5.139	12.5 kHz, FM, DL Mask D, AGC, 854 MHz.....	174
8.5.140	12.5 kHz, FM, DL Mask D, AGC+3, 854 MHz.....	175
8.5.141	12.5 kHz, FM, DL Mask H, AGC, 854 MHz.....	176
8.5.142	12.5 kHz, FM, DL Mask H, AGC+3, 854 MHz.....	177
8.5.143	25 kHz FM, DL Mask G, AGC, 854 MHz.....	178
8.5.144	25 kHz FM, DL Mask G, AGC+3, 854 MHz.....	179
8.5.145	25 kHz FM, DL Mask H, AGC, 854 MHz.....	180
8.5.146	25 kHz FM, DL Mask H, AGC+3, 854 MHz.....	181
8.5.147	C4FM, DL Mask D, AGC, 854 MHz.....	182
8.5.148	C4FM, DL Mask D, AGC+3, 854 MHz.....	183
8.5.149	H-CPM, DL Mask D, AGC, 854 MHz.....	184
8.5.150	H-CPM, DL Mask D, AGC+3, 854 MHz.....	185
8.5.151	H-DQPSK, DL Mask D, AGC, 854 MHz.....	186
8.5.152	H-DQPSK, DL Mask D, AGC+3, 854 MHz.....	187
8.5.153	6.25 kHz, FM, DL Mask D, AGC, 857 MHz.....	188
8.5.154	6.25 kHz, FM, DL Mask D, AGC+3, 857 MHz.....	189
8.5.155	6.25 kHz, FM, DL Mask G, AGC, 857 MHz.....	190
8.5.156	6.25 kHz, FM, DL Mask G, AGC+3, 857 MHz.....	191

8.5.157	12.5 kHz, FM, DL Mask D, AGC, 857 MHz	192
8.5.158	12.5 kHz, FM, DL Mask D, AGC+3, 857 MHz	193
8.5.159	25 kHz FM, DL Mask G, AGC, 857 MHz.....	194
8.5.160	25 kHz FM, DL Mask G, AGC+3, 857 MHz.....	195
8.5.161	C4FM, DL Mask D, AGC, 857 MHz	196
8.5.162	C4FM, DL Mask D, AGC+3, 857 MHz.....	197
8.5.163	H-CPM, DL Mask D, AGC, 857 MHz	198
8.5.164	H-CPM, DL Mask D, AGC+3, 857 MHz	199
8.5.165	H-DQPSK, DL Mask D, AGC, 857 MHz.....	200
8.5.166	H-DQPSK, DL Mask D, AGC+3, 857 MHz	201
8.6	NOISE FIGURE	202
8.7	OUT-OF-BAND/OUT-OF-BLOCK EMISSIONS (INTERMODULATION PRODUCTS).....	203
8.7.1	6.25 kHz Signal, Downlink, AGC, 758 MHz.....	<i>Error! Bookmark not defined.</i>
8.7.2	6.25 kHz Signal, Downlink, AGC+3dB, 758 MHz	<i>Error! Bookmark not defined.</i>
8.7.3	12.5 kHz Signal, Downlink, AGC, 758 MHz.....	<i>Error! Bookmark not defined.</i>
8.7.4	12.5 kHz Signal, Downlink, AGC+3dB, 758 MHz.....	<i>Error! Bookmark not defined.</i>
8.7.5	25 kHz Signal, Downlink, AGC, 758 MHz.....	<i>Error! Bookmark not defined.</i>
8.7.6	25 kHz Signal, Downlink, AGC+3dB, 758 MHz.....	<i>Error! Bookmark not defined.</i>
8.7.7	6.25 kHz Signal, Downlink, AGC, 761 MHz.....	<i>Error! Bookmark not defined.</i>
8.7.8	6.25 kHz Signal, Downlink, AGC+3dB, 761 MHz.....	<i>Error! Bookmark not defined.</i>
8.7.9	12.5 kHz Signal, Downlink, AGC, 761 MHz	<i>Error! Bookmark not defined.</i>
8.7.10	12.5 kHz Signal, Downlink, AGC+3dB, 761 MHz	<i>Error! Bookmark not defined.</i>
8.7.11	25 kHz Signal, Downlink, AGC, 761 MHz.....	<i>Error! Bookmark not defined.</i>
8.7.12	25 kHz Signal, Downlink, AGC+3dB, 761 MHz.....	<i>Error! Bookmark not defined.</i>
8.7.13	6.25 kHz Signal, Downlink, AGC, 764 MHz	<i>Error! Bookmark not defined.</i>
8.7.14	6.25 kHz Signal, Downlink, AGC+3dB, 764 MHz	<i>Error! Bookmark not defined.</i>
8.7.15	12.5 kHz Signal, Downlink, AGC, 764 MHz.....	<i>Error! Bookmark not defined.</i>
8.7.16	12.5 kHz Signal, Downlink, AGC+3dB, 764 MHz.....	<i>Error! Bookmark not defined.</i>
8.7.17	25 kHz Signal, Downlink, AGC, 764 MHz.....	<i>Error! Bookmark not defined.</i>
8.7.18	25 kHz Signal, Downlink, AGC+3dB, 764 MHz	<i>Error! Bookmark not defined.</i>
8.7.19	6.25 kHz Signal, Uplink, AGC, 788 MHz.....	<i>Error! Bookmark not defined.</i>
8.7.20	6.25 kHz Signal, Uplink, AGC+3dB, 788 MHz	<i>Error! Bookmark not defined.</i>
8.7.21	12.5 kHz Signal, Uplink, AGC, 788 MHz.....	<i>Error! Bookmark not defined.</i>
8.7.22	12.5 kHz Signal, Uplink, AGC+3dB, 788 MHz.....	<i>Error! Bookmark not defined.</i>
8.7.23	25 kHz Signal, Uplink, AGC, 788 MHz.....	<i>Error! Bookmark not defined.</i>
8.7.24	25 kHz Signal, Uplink, AGC+3dB, 788 MHz	<i>Error! Bookmark not defined.</i>
8.7.25	6.25 kHz Signal, Uplink, AGC, 791 MHz.....	<i>Error! Bookmark not defined.</i>
8.7.26	6.25 kHz Signal, Uplink, AGC+3dB, 791 MHz.....	<i>Error! Bookmark not defined.</i>
8.7.27	12.5 kHz Signal, Uplink, AGC, 791 MHz	<i>Error! Bookmark not defined.</i>
8.7.28	12.5 kHz Signal, Uplink, AGC+3dB, 791 MHz	<i>Error! Bookmark not defined.</i>
8.7.29	25 kHz Signal, Uplink, AGC, 791 MHz.....	<i>Error! Bookmark not defined.</i>
8.7.30	25 kHz Signal, Uplink, AGC+3dB, 791 MHz.....	<i>Error! Bookmark not defined.</i>
8.7.31	6.25 kHz Signal, Uplink, AGC, 794 MHz	<i>Error! Bookmark not defined.</i>
8.7.32	6.25 kHz Signal, Uplink, AGC+3dB, 794 MHz	<i>Error! Bookmark not defined.</i>
8.7.33	12.5 kHz Signal, Uplink, AGC, 794 MHz.....	<i>Error! Bookmark not defined.</i>
8.7.34	12.5 kHz Signal, Uplink, AGC+3dB, 794 MHz.....	<i>Error! Bookmark not defined.</i>
8.7.35	25 kHz Signal, Uplink, AGC, 794 MHz.....	<i>Error! Bookmark not defined.</i>
8.7.36	25 kHz Signal, Uplink, AGC+3dB, 794 MHz	<i>Error! Bookmark not defined.</i>

8.7.37	6.25 kHz Signal, Uplink, AGC, 806 MHz	<i>Error! Bookmark not defined.</i>
8.7.38	6.25 kHz Signal, Uplink, AGC+3dB, 806 MHz	<i>Error! Bookmark not defined.</i>
8.7.39	12.5 kHz Signal, Uplink, AGC, 806 MHz	<i>Error! Bookmark not defined.</i>
8.7.40	12.5 kHz Signal, Uplink, AGC+3dB, 806 MHz	<i>Error! Bookmark not defined.</i>
8.7.41	25 kHz Signal, Uplink, AGC, 806 MHz	<i>Error! Bookmark not defined.</i>
8.7.42	25 kHz Signal, Uplink, AGC+3dB, 806 MHz	<i>Error! Bookmark not defined.</i>
8.7.43	6.25 kHz Signal, Uplink, AGC, 809 MHz	<i>Error! Bookmark not defined.</i>
8.7.44	6.25 kHz Signal, Uplink, AGC+3dB, 809 MHz	<i>Error! Bookmark not defined.</i>
8.7.45	12.5 kHz Signal, Uplink, AGC, 809 MHz	<i>Error! Bookmark not defined.</i>
8.7.46	12.5 kHz Signal, Uplink, AGC+3dB, 809 MHz	<i>Error! Bookmark not defined.</i>
8.7.47	25 kHz Signal, Uplink, AGC, 809 MHz	<i>Error! Bookmark not defined.</i>
8.7.48	25 kHz Signal, Uplink, AGC+3dB, 809 MHz	<i>Error! Bookmark not defined.</i>
8.7.49	6.25 kHz Signal, Uplink, AGC, 812 MHz	<i>Error! Bookmark not defined.</i>
8.7.50	6.25 kHz Signal, Uplink, AGC+3dB, 812 MHz	<i>Error! Bookmark not defined.</i>
8.7.51	12.5 kHz Signal, Uplink, AGC, 812 MHz	<i>Error! Bookmark not defined.</i>
8.7.52	12.5 kHz Signal, Uplink, AGC+3dB, 812 MHz	<i>Error! Bookmark not defined.</i>
8.7.53	25 kHz Signal, Uplink, AGC, 812 MHz	<i>Error! Bookmark not defined.</i>
8.7.54	25 kHz Signal, Uplink, AGC+3dB, 812 MHz	<i>Error! Bookmark not defined.</i>
8.7.55	6.25 kHz Signal, Downlink, AGC, 851 MHz	<i>Error! Bookmark not defined.</i>
8.7.56	6.25 kHz Signal, Downlink, AGC+3dB, 851 MHz	<i>Error! Bookmark not defined.</i>
8.7.57	12.5 kHz Signal, Downlink, AGC, 851 MHz	<i>Error! Bookmark not defined.</i>
8.7.58	12.5 kHz Signal, Downlink, AGC+3dB, 851 MHz	<i>Error! Bookmark not defined.</i>
8.7.59	25 kHz Signal, Downlink, AGC, 851 MHz	<i>Error! Bookmark not defined.</i>
8.7.60	25 kHz Signal, Downlink, AGC+3dB, 851 MHz	<i>Error! Bookmark not defined.</i>
8.7.61	6.25 kHz Signal, Downlink, AGC, 854 MHz	<i>Error! Bookmark not defined.</i>
8.7.62	6.25 kHz Signal, Downlink, AGC+3dB, 854 MHz	<i>Error! Bookmark not defined.</i>
8.7.63	12.5 kHz Signal, Downlink, AGC, 854 MHz	<i>Error! Bookmark not defined.</i>
8.7.64	12.5 kHz Signal, Downlink, AGC+3dB, 854 MHz	<i>Error! Bookmark not defined.</i>
8.7.65	25 kHz Signal, Downlink, AGC, 854 MHz	<i>Error! Bookmark not defined.</i>
8.7.66	25 kHz Signal, Downlink, AGC+3dB, 854 MHz	<i>Error! Bookmark not defined.</i>
8.7.67	6.25 kHz Signal, Downlink, AGC, 857 MHz	<i>Error! Bookmark not defined.</i>
8.7.68	6.25 kHz Signal, Downlink, AGC+3dB, 857 MHz	<i>Error! Bookmark not defined.</i>
8.7.69	12.5 kHz Signal, Downlink, AGC, 857 MHz	<i>Error! Bookmark not defined.</i>
8.7.70	12.5 kHz Signal, Downlink, AGC+3dB, 857 MHz	<i>Error! Bookmark not defined.</i>
8.7.71	25 kHz Signal, Downlink, AGC, 857 MHz	<i>Error! Bookmark not defined.</i>
8.7.72	25 kHz Signal, Downlink, AGC+3dB, 857 MHz	<i>Error! Bookmark not defined.</i>
8.8	EMISSION MASK, OUT-OF-BAND	276
8.8.1	30 MHz to 1 GHz, 758 MHz	277
8.8.2	1 GHz to 10 th Harmonic, 758 MHz	278
8.8.3	30 MHz to 1 GHz, 761 MHz	279
8.8.4	1 GHz to 10 th Harmonic, 761 MHz	280
8.8.5	30 MHz to 1 GHz, 764 MHz	281
8.8.6	1 GHz to 10 th Harmonic, 764 MHz	282
8.8.7	30 MHz to 1 GHz, 788 MHz	283
8.8.8	1 GHz to 10 th Harmonic, 788 MHz	284
8.8.9	30 MHz to 1 GHz, 791 MHz	285
8.8.10	1 GHz to 10 th Harmonic, 791 MHz	286
8.8.11	30 MHz to 1 GHz, 794 MHz	287

8.8.12	1 GHz to 10 th Harmonic, 794 MHz	288
8.8.13	30 MHz to 1 GHz, 806 MHz.....	289
8.8.14	1 GHz to 10 th Harmonic, 806 MHz	290
8.8.15	30 MHz to 1 GHz, 809 MHz.....	291
8.8.16	1 GHz to 10 th Harmonic, 809 MHz	292
8.8.17	30 MHz to 1 GHz, 812 MHz	293
8.8.18	1 GHz to 10 th Harmonic, 812 MHz.....	294
8.8.19	30 MHz to 1 GHz, 851 MHz	295
8.8.20	1 GHz to 10 th Harmonic, 851 MHz.....	296
8.8.21	30 MHz to 1 GHz, 854 MHz	297
8.8.22	1 GHz to 10 th Harmonic, 854 MHz	298
8.8.23	30 MHz to 1 GHz, 857 MHz	299
8.8.24	1 GHz to 10 th Harmonic, 857 MHz.....	300
8.9	SPURIOUS RADIATED EMISSIONS	301
8.9.1	Downlink, 758 MHz	302
8.9.2	Downlink, 761 MHz	303
8.9.3	Downlink, 764 MHz	304
8.9.4	Uplink, 788 MHz	305
8.9.5	Uplink, 791 MHz	306
8.9.6	Uplink, 794 MHz	307
8.9.7	Uplink, 806 MHz.....	308
8.9.8	Uplink, 809 MHz.....	309
8.9.9	Uplink, 812 MHz	310
8.9.10	Downlink, 851 MHz	311
8.9.11	Downlink, 854 MHz.....	312
8.9.12	Downlink, 857 MHz	313
8.10	MODULATION CHARACTERISTICS.....	314
8.11	FREQUENCY STABILITY	315
8.12	TRANSIENT FREQUENCY BEHAVIOR.....	316
8.13	ADJACENT CHANNEL POWER LIMITS.....	317
8.13.1	Uplink, 25k, AGC, 809 MHz.....	318
8.13.2	Uplink, 25k, AGC+3, 809 MHz	319
8.13.3	Uplink, 25k, AGC, 812 MHz.....	320
8.13.4	Uplink, 25k, AGC+3, 812 MHz.....	321
8.13.5	Downlink, 25k, AGC, 854 MHz	322
8.13.6	Downlink, 25k, AGC+3, 854 MHz	323
8.13.7	Downlink, 25k, AGC, 857 MHz	324
8.13.8	Downlink, 25k, AGC+3, 857 MHz.....	325
9.	ANNEX-B – TEST SETUP PHOTOGRAPHS.....	326
10.	HISTORY OF TEST REPORT CHANGES.....	326

1. Applicant Information

Applicant: Fiplex Communications Inc.
Address: 2101 NW 79th Avenue
Miami, Florida, 33122, United States

1.1 Test Result Summary

The following test procedure and guidance were used for measuring FCC PART 90 (PRIVATE LAND MOBILE RADIO SERVICES) known as Licensed Land Mobile; ANSI C63.26-2015 and FCC KDB 935210 D05 v01r04 Industrial Signal Boosters. Full test results are available in this report.

No additions to the test methods were needed. There were no deviations, or exclusions from the test methods. No test results are from external providers or from the customer. The test results relate only to the items tested. IIA Lab Services LLC does not offer opinions and interpretations, only a pass/fail statement.

Applicable Clauses from Part 2		
FCC Part 2 Clauses	Description of the requirements	Result: (Pass, Fail, N/A)
2.202	Bandwidth & Emission	Pass
2.1033 (c)(8)	Power at the Final Amplifier	Pass
2.1046 (a)	RF Output Power	Pass
2.1047	Modulation characteristics	n/a
2.1049	Occupied Bandwidth	Pass
2.1051	Spurious emissions at antenna terminals	Pass
2.1053	Field strength of spurious radiation	Pass
2.1055	Frequency stability	n/a

Applicable Clauses from Part 90 Subpart I		
FCC Part 90 Clauses	Description of the requirements	Result: (Pass, Fail, N/A)
90.205	Transmitter Power	Pass
90.207	Types of Emissions	Pass
90.209	Bandwidth limitations	Pass
90.210	Emission masks, In-band	Pass
90.210	Emission masks, Out-of-band	Pass
90.213	Frequency stability	n/a
90.214	Transient Frequency Behavior	n/a
90.219 (d)(6)(i)	ERP of intermodulation products	n/a ¹
90.219 (d)(6)(ii)	ERP of noise within the passband	n/a ¹
90.219 (d)(6)(iii)	ERP of noise on spectrum < 1 MHz outside of the passband	n/a ¹
90.219 (d)(3)(i), (e)(1)	ERP of Radiated Power	n/a ¹
90.219 (e)(2)	Noise figure	Pass
90.219 (e)(3)	Spurious emissions	Pass
90.219 (e)(4)(i)(ii)(iii)	Retransmitted Signals	Pass
90.221	Adjacent channel power limits	Pass

Note 1: Requirements in Part 90.219 (d) apply at deployment of this EUT, therefore are not applicable at certification.

KDB 935210 D05 v01r04		
FCC KDB 935210 D05 Clauses	Description of the requirements	Result: (Pass, Fail, N/A)
4.1	Test Signals for PLMRS (Input Signals)	Pass
4.2	AGC Threshold	Reported
4.3	Out-of-Band Rejection	Reported
4.4	Input-versus-Output Signal Comparison	Pass
4.5	Output Power	Pass
4.5	Amplifier/Booster Gain (optional)	Reported
4.6	Noise Figure	Pass
4.7.2	Out-of-band/Out-of-block Conducted Emissions (Intermodulation Products)	Pass
4.7.3	EUT Spurious Conducted Emissions	Pass
4.8	Frequency Stability	n/a
4.9	Spurious Radiated Emissions	Pass

2. Location of Testing

2.1 Test Laboratory

IIA Lab Services LLC. is a subsidiary of Industrial Inspection & Analysis, Inc. ("IIA"). Testing was performed at IIA's permanent laboratory located at 13146 NW 86th Drive, Suite 400, Alachua, Florida 32615.

FCC test firm # 578780

FCC Designation # US1070

FCC site registration is under A2LA certificate # 0955.01

ISED Canada test site registration # 2056A

EU Notified Body # 1177

For all designations see A2LA scope # 0955.01

3. Test Sample(s) (EUT/DUT)

The test sample was received: 2026-01-22

Dates of Testing: 2026-02-20 – 2026-04-21

3.1 Definitions

Signal booster: A device or system that automatically receives, amplifies, and retransmits signals from wireless stations into and out of building interiors, tunnels, shielded outdoor areas and other locations where these signals would otherwise be too weak for reliable communications. Signal booster systems may contain both Class A and Class B signal boosters as components.

Class A signal booster: A signal booster designed to retransmit signals on one or more specific channels. A signal booster is deemed to be a Class A signal booster if none of its passbands exceed 75 kHz.

Class B signal booster: A signal booster designed to retransmit any signals within a wide frequency band. A signal booster is deemed to be a Class B signal booster if it has a passband that exceeds 75 kHz.

3.2 Description of the EUT

A description as well as unambiguous identification of the EUT(s) tested. Where more than one sample is required for technical reasons (such as the use of connected units for the purpose of conducted output power testing where the product units will have integral antennas), each specific test shall identify which unit was tested.

Identification	
FCC ID:	P3THONBDA-6B
Brief Description	High Power Digital Signal Booster
Model(s) #	HONBDA-A-7S37A
Firmware version	N/A
Software version	N/A
Serial Number	N/A

Technical Characteristics	
Frequency Range (MHz)	788 – 805 0.25W 806 – 824 0.25W 758 – 775 5W 851 – 869 5W
RF O/P Power (Max.)	800MHz Downlink: 37.03dBm, 5.05W
Modulation	FM
Bandwidth & Emission Class	F3E, F1D, F1E, F1W, F1D, F1E, D7W
Number of Channels	N/A
Duty Cycle	100%
Antenna Connector	N Type
Voltage Rating (AC or Batt.)	AC 110 VAC, 50/60 Hz

Antenna Characteristics			
Antenna	Frequency Range	Mode / BW	Antenna Gain
1	n/a	n/a	0 dBi

- Note: Information such as antenna gain, firmware/software numbers are provided by the manufacturer and cannot be validated by the test lab.

3.3 Configuration of EUT

Test Modes		
Band (MHz)	Link Direction	Test Frequencies (MHz)
788 – 805 MHz	Uplink	788 MHz
		791 MHz
		794 MHz
758 – 775 MHz	Downlink	758 MHz
		761 MHz
		764 MHz
806 – 824 MHz	Uplink	806 MHz
		809 MHz
		812 MHz
851 – 869 MHz	Downlink	851 MHz
		854 MHz
		857 MHz

Operating conditions during Testing:

No other modifications of the device under test (including firmware, specific software settings, and input/output signal levels to the EUT) were made.

Peripherals used during Testing:

A laptop provided by the manufacturer was used to program the EUT.

3.4 Test Setup of EUT

Equipment, antenna, and cable arrangement. The setup of the equipment and cable or wire placement on the test site that produces the highest radiated and the highest ac power line conducted emissions shall be shown clearly and described. Information on the orientation of portable equipment during testing shall be included. Drawings or photographs may be used for this purpose.

Test Setups are included in the test report.

4. Test methods & Applicable Regulatory Limits

4.1 Test methods/Standards/Guidance:

Test procedures and guidance for measuring Licensed Part 90 Licensed device:

- 1) ANSI C63.26-2015
- 2) FCC KDB 935210 D05 v01r04 Industrial Signal Boosters

4.2 Applied Limits and Regulatory Limits:

- 1) FCC CFR 47 Part 90 (2018)

5. Measurement Uncertainty

Parameter	Uncertainty (dB)
Conducted Emissions	± 3.14 dB
Radiated Emissions (9kHz – 30 MHz)	± 3.08 dB
Radiated Emissions (30 – 200 MHz)	± 2.16 dB
Radiated Emissions (200 – 1000 MHz)	± 2.15 dB
Radiated Emissions (1 GHz – 18 GHz)	± 2.14 dB
Radiated Emissions (18 GHz – 40 GHz)	± 2.31 dB
Note: The uncertainties provided in this table represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of K=2.	

6. Environmental Conditions

6.1 Temperature & Humidity

Measurements performed at the test site did not exceed the following:

Parameter	Measurement
Temperature	23 C +/- 5%
Humidity	55% +/- 5%
Barometric Pressure	30.05 in Hg
Note: Specific environmental conditions that are applicable to a specific test are available in the test result section.	

Parameter	Date 2/20/2026	Average Measurement
Temperature	24.8	°C
Humidity	52.3	%

7. List of Test Equipment and Test Facility

The test equipment used identified by type, manufacturer, serial number, or other identification and the date on which the next calibration or service check is due.

Description of the firmware or software used to operate EUT for testing purposes.

A complete list of all test equipment used shall be included with the test report. The manufacturer's model and serial numbers, and date of last calibration, and calibration interval shall be included. Measurement cable loss, measuring instrument bandwidth and detector function, video bandwidth, if appropriate, and antenna factors shall also be included where applicable.

7.1 List of Test Equipment

Test Equipment						
Type	Device	Manufacturer	Model	SN#	Current Cal	Cal Due
Antenna, NSA	Log-Periodic 1243	Eaton	96005	1243	10/23/25	10/23/2027
Antenna	Double-Ridged Horn/ETS Horn 1	ETS-Lindgren	3117	00035923	5/31/23	5/30/26
CHAMBER	CHAMBER	Panashield	3M	N/A	12/31/25	12/31/2027
Pre-amp	Pre-amp	RF-LAMBDA	RLNA00M45GA	NA	9/3/25	9/3/2027
Receiver	EMI Test Receiver R&S ESU 40	Rohde & Schwarz	ESU 40	100320	9/18/24	9/18/2027
Receiver	EMI Test Receiver R&S ESW44	Rohde & Schwarz	ESW44	103049	1/20/25	1/20/2028
Signal Generator	Vector Signal Generator	Rohde & Schwarz	SMBV100B	1423.1003K02-105158-QL	5/19/25	5/19/2027
Signal Generator	Signal Generator	Hewlett Packard	8648C	3847A04696	3/31/2026	3/30/2028

Software			
Software	Author	Version	Validation on
ESU Firmware	Rohde & Schwarz	4.43 SP3; BIOS v5.1-24-3	2018
Field Strength	IIA	v4.10.7.0	2016
Field Meter	Wave Control SMP2	2.5.5	2024
EMC32	Rohde & Schwarz	11.60.00	2025

8. Test Results

The results of the test are usually indicated in the form of tables, spectrum analyzer plots, charts, sample calculations, as appropriate for each test procedure.

A description and/or a block diagram of the test setup is usually provided.

The measurement results, along with the appropriate limits for comparison, may be presented in tabular or graphical form. In addition, any variation in the measurement environment may be reported if applicable (e.g., a significant change of temperature that could affect the cable loss and amplifier response).

Unless noted otherwise in the referenced standard, the measurements of **ac power-line conducted emissions and conducted power output** will be reported in units of dB μ V. Unless noted otherwise in the referenced standard, the measurements of **radiated emissions** will be reported in units of decibels, referenced to one microvolt per meter (dB μ V/m) for electric fields, or to one ampere per meter (dBA/m) for magnetic fields, at the distance specified in the appropriate standards or requirements. The measurements of antenna-conducted power for receivers may be reported in units of dB μ V if the impedance of the measuring instrument is also reported. Otherwise, antenna-conducted power will be reported in units of decibels referenced to one milliwatt (dBm). All formulas for data conversions and conversion factors, if used, will be included in this measurement report.

Example:

Freq (MHz)	Meter Reading	+ ACF	+CL	= FS
33	20 dB μ V	+ 10.36 dB/m	+0.40 dB	=30.36 dB μ V/m @ 3m

$$\text{EIRP} = \text{Pcond (dBm)} + \text{dBi}$$

8.1 Power at the Final Amplifier

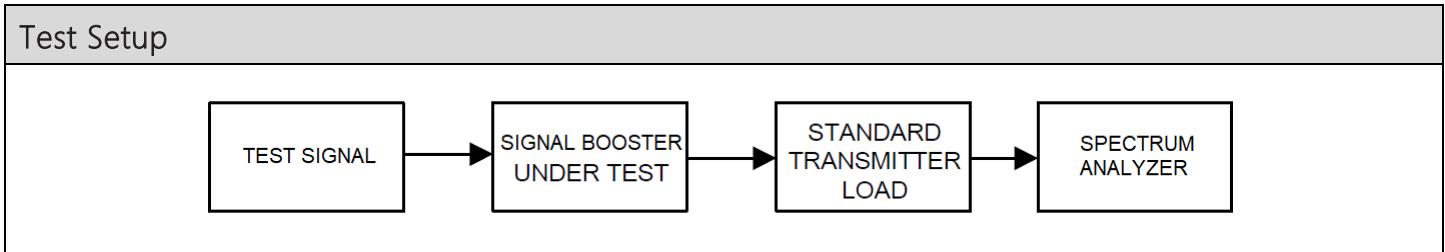
Limits from FCC Part 2.1033 (c)(8).

No method of measurement is specified. The result has been calculated based on all available information.

Test Results		
EUT Operating Voltage (V)	EUT Current (A)	Power at the Final Amplifier (W)
AC 110 VAC, 50/60 Hz	3.5	385

8.2 RF Output Power & Gain

Limits from FCC Parts 2.1046(a), and 90.205 and test procedure from ANSI C63.26-2015 and FCC KDB 935210 D05 v01r04 Industrial Signal Boosters.



Test Results, Power Output		
Link Direction	Max Power Output (dBm)	Max Power Output (W)
758 – 775 MHz, Downlink	36.85	4.84
788 – 805 MHz, Uplink	32.92	1.96
806 – 824 MHz, Uplink	30.11	1.03
851 – 869 MHz, Downlink	37.03	5.05

Gain

Test Results, Gain					
Link Direction	Tuned Frequency (MHz)	Input Level	Power Input (dBm)	Power Output (dBm)	Gain (dB)
Downlink	758	AGC	-59.2	36.85	96.05
		AGC+3	-56.2	36.82	93.02
	761	AGC	-58	36.84	94.84
		AGC+3	-55	36.84	91.84
	764	AGC	-58.4	36.14	94.54
		AGC+3	-55.4	36.20	91.6
Uplink	788	AGC	-65.5	29.34	94.84
		AGC+3	-62.5	29.35	91.85
	791	AGC	-65	29.33	94.33
		AGC+3	-62	29.37	91.37
	794	AGC	-65	29.72	94.72
		AGC+3	-62	32.92	94.92

6dB adjustment from splitter included in calculation

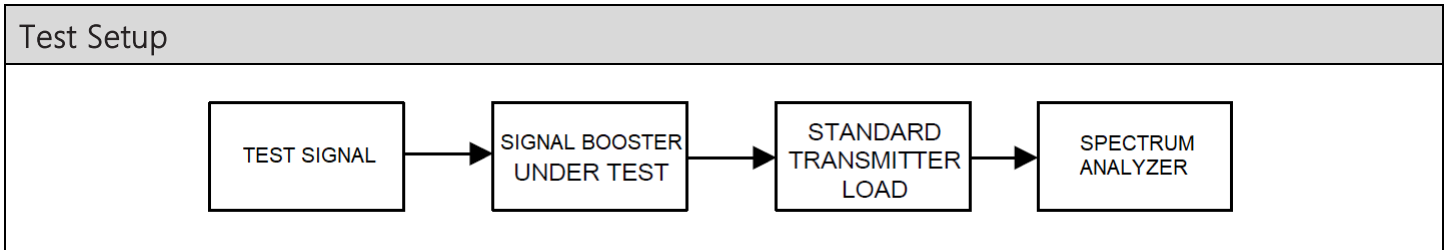
Gain

Test Results, Gain					
Link Direction	Tuned Frequency (MHz)	Input Level	Power Input (dBm)	Power Output (dBm)	Gain (dB)
Uplink	806	AGC	-65.7	30.07	95.77
		AGC+3	-62.7	30.11	92.81
	809	AGC	-64.9	29.84	94.74
		AGC+3	-61.9	29.95	91.85
	812	AGC	-65.2	29.76	94.96
		AGC+3	-62.2	29.80	92
Downlink	851	AGC	-59	36.75	95.75
		AGC+3	-56	36.81	92.81
	854	AGC	-58.2	36.96	95.16
		AGC+3	-55.2	36.98	92.18
	857	AGC	-58	37.03	95.03
		AGC+3	-55	36.97	91.97

6dB adjustment from splitter included in calculation

8.3 Out-of-band Rejection

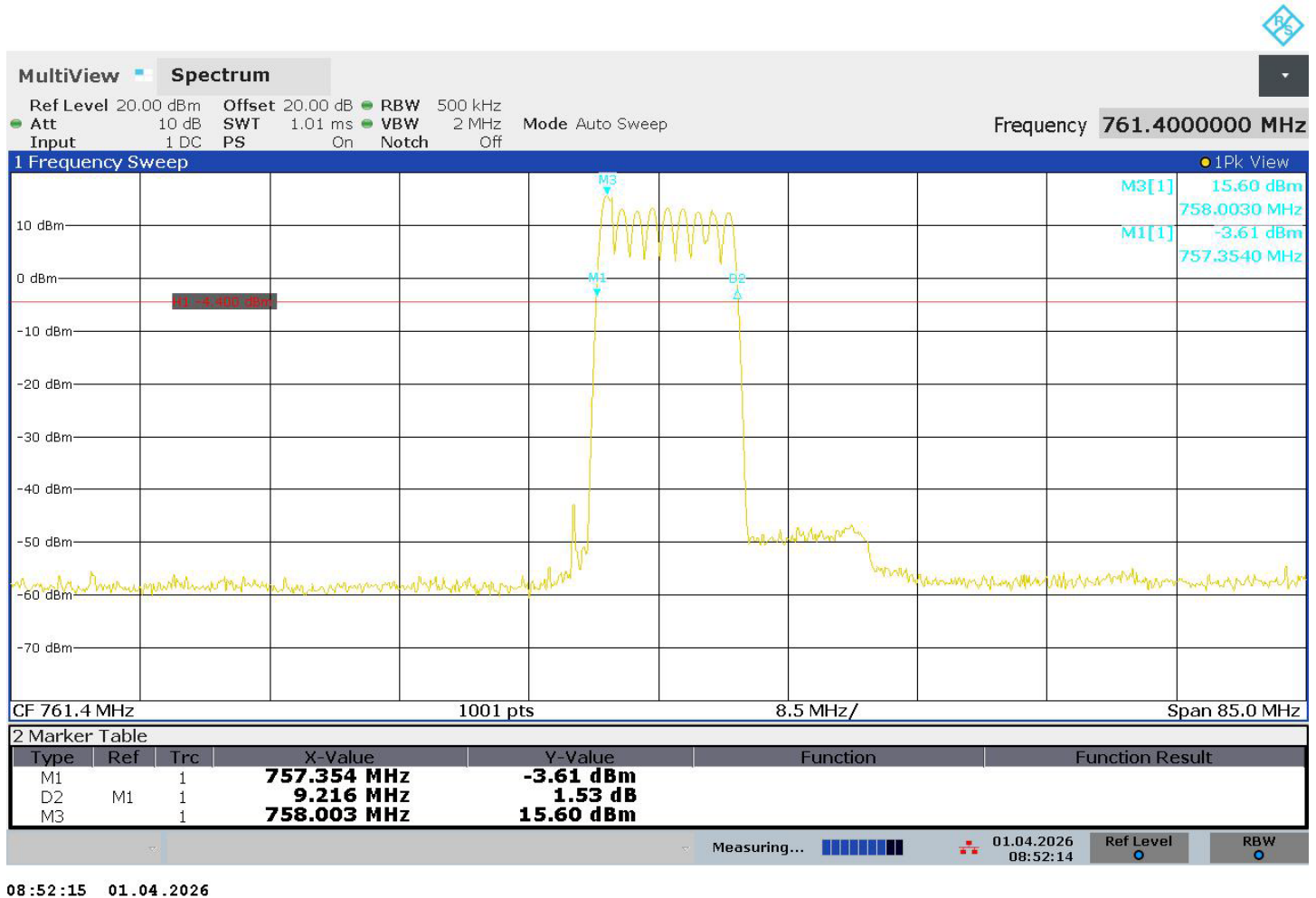
Limits and test method from FCC KDB 935210 D05 v01r04 Industrial Signal Boosters.



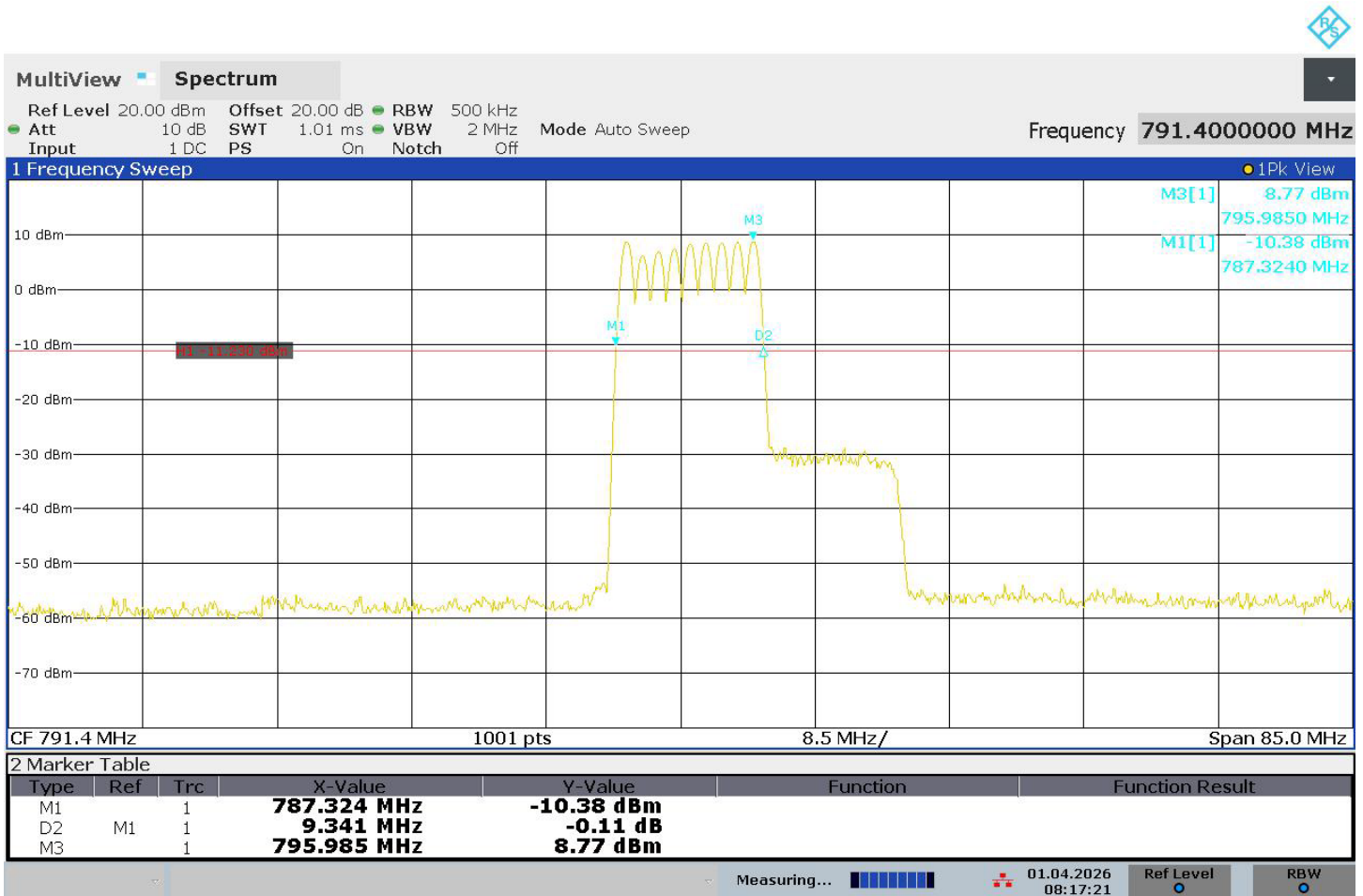
Test Results, Out-of-band Rejection and Class of Operation			
Operating Band (MHz)	Link Direction	Passband (kHz)	Class of Operation
758 – 775 MHz	Downlink	> 75 kHz	Class B
788 – 805 MHz	Uplink	> 75 kHz	Class B
806 – 824 MHz	Uplink	> 75 kHz	Class B
851 – 869 MHz	Downlink	> 75 kHz	Class B

Out-of-band Rejection, Spectrum Plots

8.3.1 758 – 775, Downlink, Class B

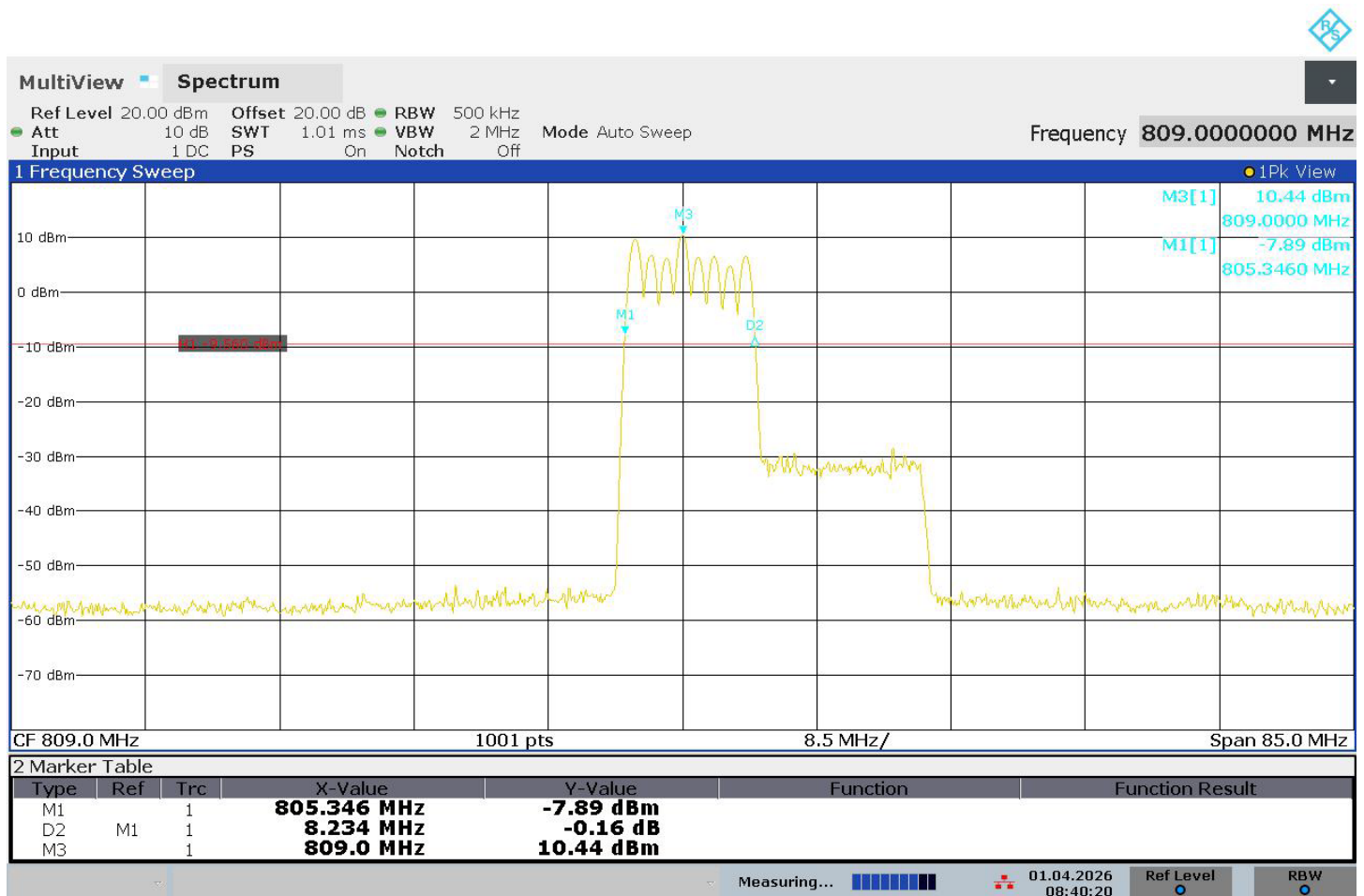


8.3.2 788 – 805 MHz, Uplink, Class B



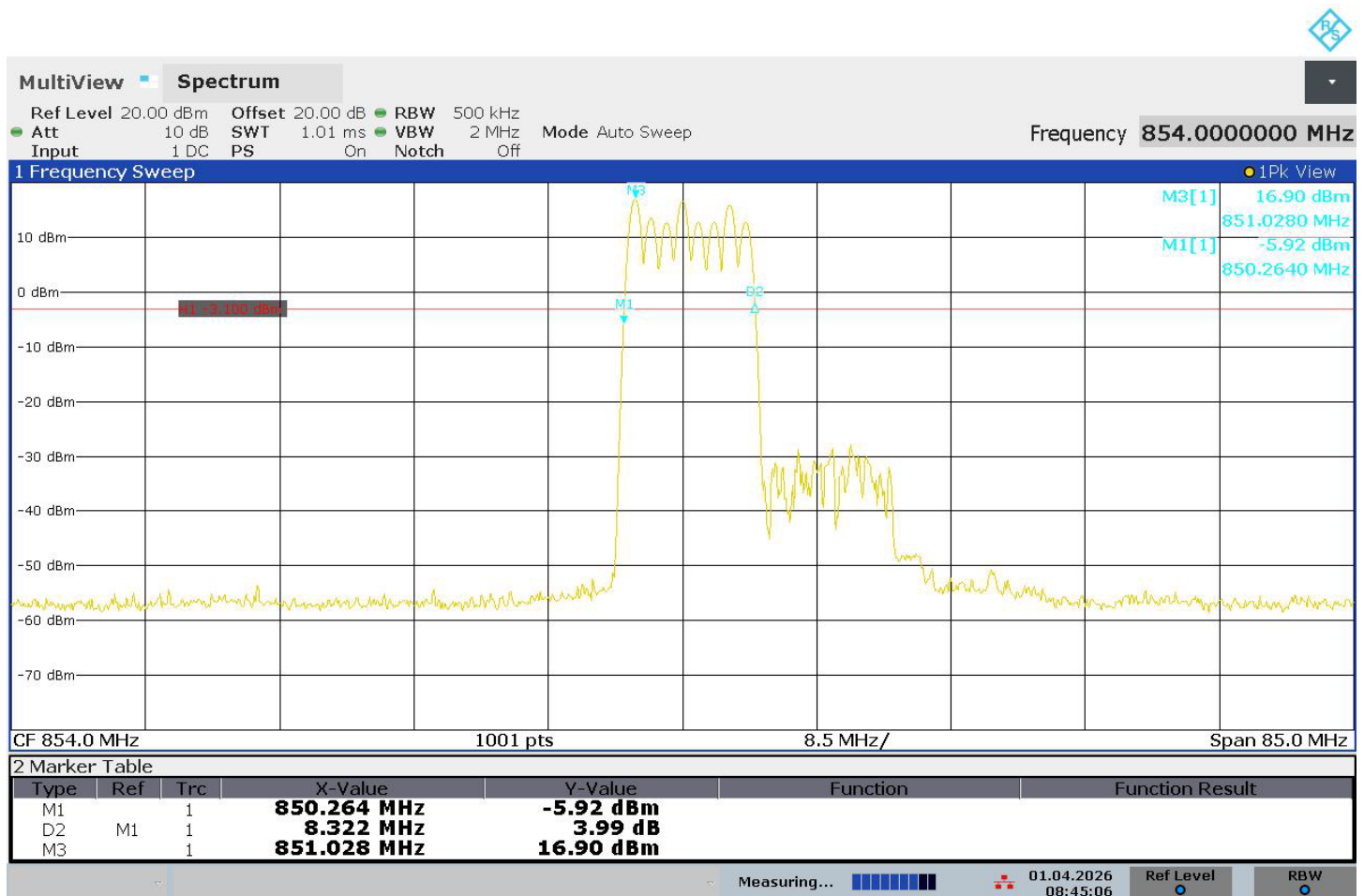
08:17:21 01.04.2026

8.3.3 806 – 824 MHz, Uplink, Class B



08:40:21 01.04.2026

8.3.4 851 – 869 MHz, Downlink, Class B



08:45:07 01.04.2026

8.4 Bandwidth & Emission

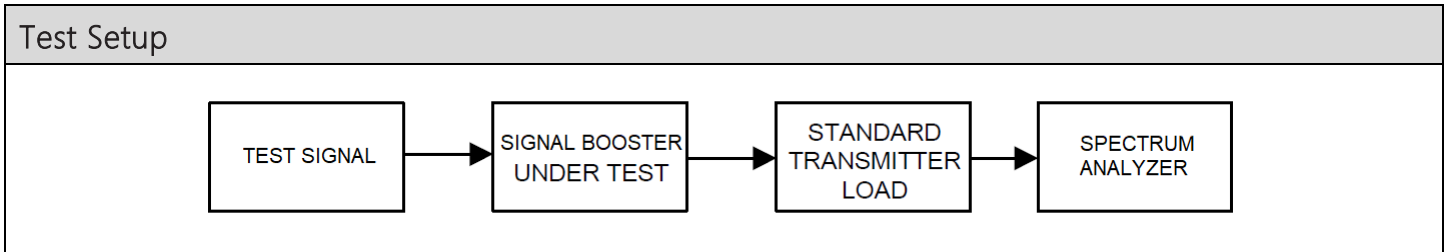
Limits from FCC Parts 90.209 and FCC KDB 935210 D05 v01r04 Industrial Signal Boosters.

Authorized Bandwidth		
Rule Part	Operating Range	Authorized Bandwidth (kHz)
Part 90	758 – 775 MHz	6.25/12.5
Part 90	788 – 805 MHz	6.25/12.5
Part 90	806 – 824 MHz	6.25/12.5/25
Part 90	851 – 869 MHz	6.25/12.5/25

Applicable Input Signals		
Signal	Occupied Bandwidth (kHz)	Representative Emission Designator(s)
CW	N/A	N/A
6.25 kHz FM	4.038	4K04F3E
12.5 kHz FM	7.933	7K93F3E
25 kHz FM	10.337	10K3F3E
C4FM (P25 Phase I)	8.173	8K17F1D, 8K17F1E
HCPM (P25 Phase II SU)	8.333	8K33F1W
HDQPSK (P25 Phase II BS)	9.976	9K98F1D, 9K98F1E, 9K98D7W

8.5 Input VS Output Signal Comparison

Limits from FCC Parts 90.210 and test procedure from ANSI C63.26-2015 and FCC KDB 935210 D05 v01r04 Industrial Signal Boosters.



Input VS Output Comparison

Test Results, Input VS Output Comparison						
Link Direction	Tuned Frequency (MHz)	Input Signal	AGC Level	99% OBW of Input (kHz)	99% OBW of Output (kHz)	Change (%)
Downlink	758	6.25 kHz FM	@ AGC	4.038	4.034	-0.004
		12.5 kHz FM	@ AGC	6.21	7.114	0.904
		25 kHz FM	@ AGC	10.22	12.341	2.121
		C4FM	@ AGC	7.71	8.197	0.487
		HCPM	@ AGC	7.71	7.985	0.275
		HDQPSK	@ AGC	9.92	9.822	-0.098
Downlink	761	6.25 kHz FM	@ AGC	4.038	4.034	-0.004
		12.5 kHz FM	@ AGC	6.21	7.134	0.924
		25 kHz FM	@ AGC	10.22	12.341	2.121
		C4FM	@ AGC	7.71	8.091	0.381
		HCPM	@ AGC	7.71	7.950	0.24
		HDQPSK	@ AGC	9.92	9.808	-0.112
Downlink	764	6.25 kHz FM	@ AGC	4.038	4.034	-0.004
		12.5 kHz FM	@ AGC	6.21	7.126	0.916
		25 kHz FM	@ AGC	10.22	12.340	2.12
		C4FM	@ AGC	7.71	8.244	0.534
		HCPM	@ AGC	7.71	7.946	0.236
		HDQPSK	@ AGC	9.92	9.817	-0.103

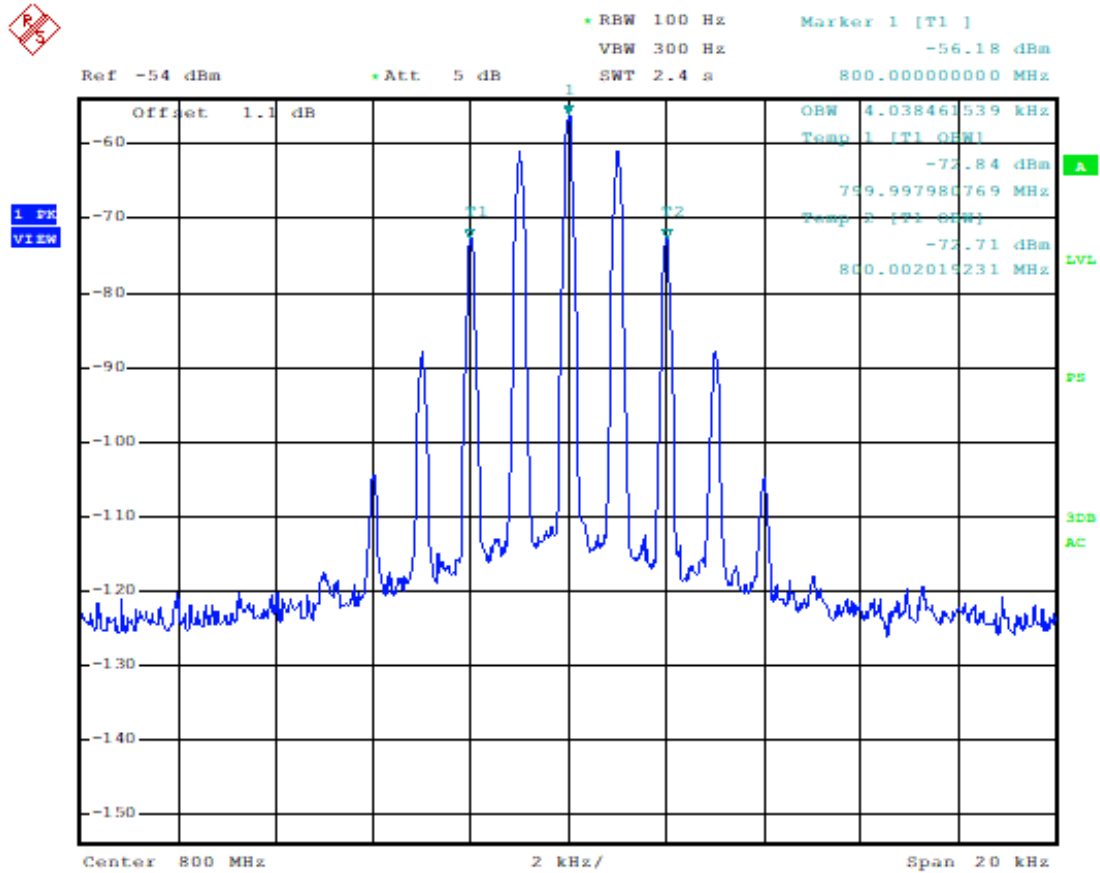
Test Results, Input VS Output Comparison						
Link Direction	Tuned Frequency (MHz)	Input Signal	AGC Level	99% OBW of Input (kHz)	99% OBW of Output (kHz)	Change (%)
Uplink	788	6.25 kHz FM	@ AGC	4.038	4.033	-0.005
		12.5 kHz FM	@ AGC	6.21	7.114	0.904
		25 kHz FM	@ AGC	10.22	12.341	2.121
		C4FM	@ AGC	7.71	8.006	0.296
		HCPM	@ AGC	7.71	7.846	0.136
		HDQPSK	@ AGC	9.92	9.502	-0.418
Uplink	791	6.25 kHz FM	@ AGC	4.038	4.034	-0.004
		12.5 kHz FM	@ AGC	6.21	7.112	0.902
		25 kHz FM	@ AGC	10.22	12.339	2.119
		C4FM	@ AGC	7.71	7.951	0.241
		HCPM	@ AGC	7.71	7.840	0.13
		HDQPSK	@ AGC	9.92	9.489	-0.431
Uplink	794	6.25 kHz FM	@ AGC	4.038	4.035	-0.003
		12.5 kHz FM	@ AGC	6.21	7.111	0.901
		25 kHz FM	@ AGC	10.22	12.337	2.117
		C4FM	@ AGC	7.71	7.949	0.239
		HCPM	@ AGC	7.71	7.843	0.133
		HDQPSK	@ AGC	9.92	9.461	-0.459

Test Results, Input VS Output Comparison						
Link Direction	Tuned Frequency (MHz)	Input Signal	AGC Level	99% OBW of Input (kHz)	99% OBW of Output (kHz)	Change (%)
Uplink	806	6.25 kHz FM	@ AGC	4.038	4.033	-0.005
		12.5 kHz FM	@ AGC	6.21	7.117	0.907
		25 kHz FM	@ AGC	10.22	12.344	2.124
		C4FM	@ AGC	7.71	8.199	0.489
		HCPM	@ AGC	7.71	7.945	0.235
		HDQPSK	@ AGC	9.92	9.797	-0.123
Uplink	809	6.25 kHz FM	@ AGC	4.038	4.033	-0.005
		12.5 kHz FM	@ AGC	6.21	7.114	0.904
		25 kHz FM	@ AGC	10.22	12.344	2.124
		C4FM	@ AGC	7.71	8.225	0.515
		HCPM	@ AGC	7.71	7.944	0.234
		HDQPSK	@ AGC	9.92	9.795	-0.125
Uplink	812	6.25 kHz FM	@ AGC	4.038	4.033	-0.005
		12.5 kHz FM	@ AGC	6.21	7.116	0.906
		25 kHz FM	@ AGC	10.22	12.343	2.123
		C4FM	@ AGC	7.71	8.154	0.444
		HCPM	@ AGC	7.71	7.929	0.219
		HDQPSK	@ AGC	9.92	9.790	-0.13

Test Results, Input VS Output Comparison						
Link Direction	Tuned Frequency (MHz)	Input Signal	AGC Level	99% OBW of Input (kHz)	99% OBW of Output (kHz)	Change (%)
Downlink	851	6.25 kHz FM	@ AGC	4.038	4.033	-0.005
		12.5 kHz FM	@ AGC	6.21	7.078	0.868
		25 kHz FM	@ AGC	10.22	11.527	1.307
		C4FM	@ AGC	7.71	8.345	0.635
		HCPM	@ AGC	7.71	7.928	0.218
		HDQPSK	@ AGC	9.92	9.769	-0.151
Downlink	854	6.25 kHz FM	@ AGC	4.038	4.034	-0.004
		12.5 kHz FM	@ AGC	6.21	7.105	0.895
		25 kHz FM	@ AGC	10.22	12.348	2.128
		C4FM	@ AGC	7.71	8.435	0.725
		HCPM	@ AGC	7.71	7.942	0.232
		HDQPSK	@ AGC	9.92	9.793	-0.127
Downlink	857	6.25 kHz FM	@ AGC	4.038	4.034	-0.004
		12.5 kHz FM	@ AGC	6.21	7.140	0.93
		25 kHz FM	@ AGC	10.22	12.343	2.123
		C4FM	@ AGC	7.71	8.423	0.713
		HCPM	@ AGC	7.71	7.933	0.223
		HDQPSK	@ AGC	9.92	9.765	-0.155

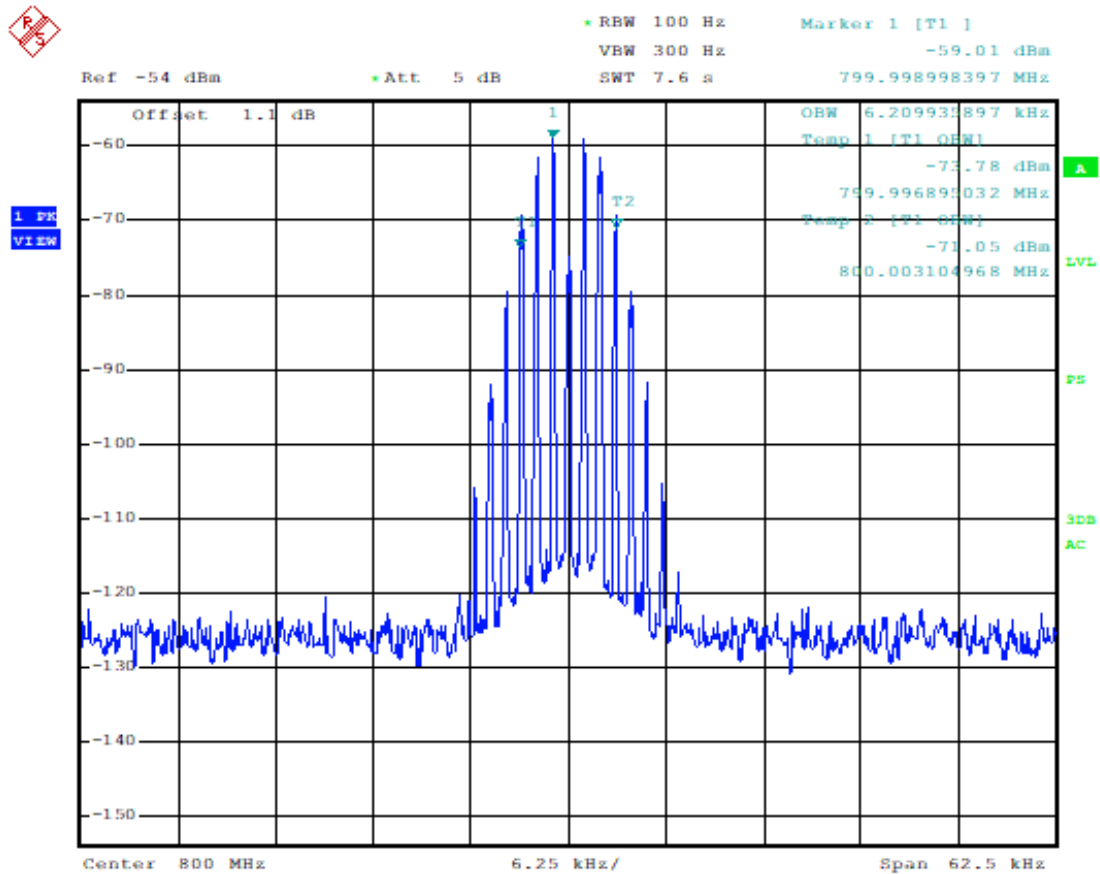
Input VS Output, Input Spectrum Plots

8.5.1 6.25 kHz FM, Input Signal



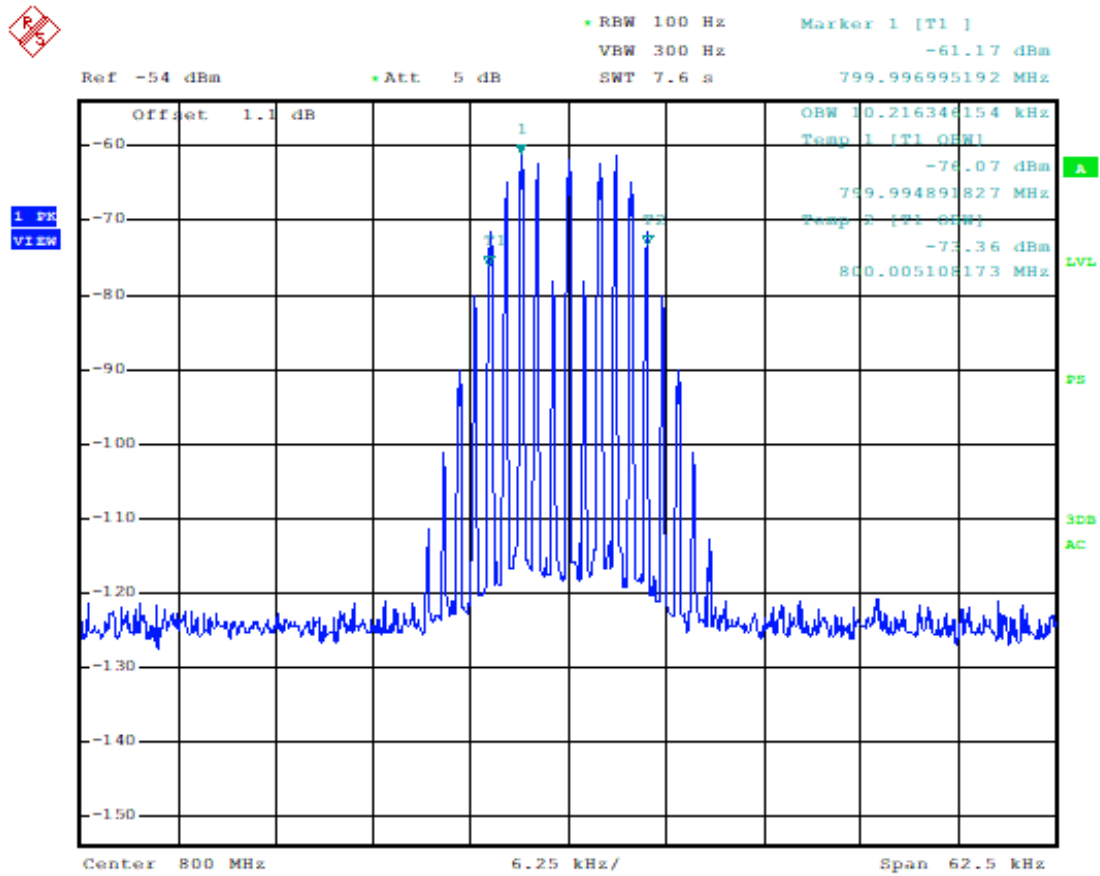
Date: 30.JAN.2019 13:10:11

8.5.2 12.5 kHz FM, Input Signal



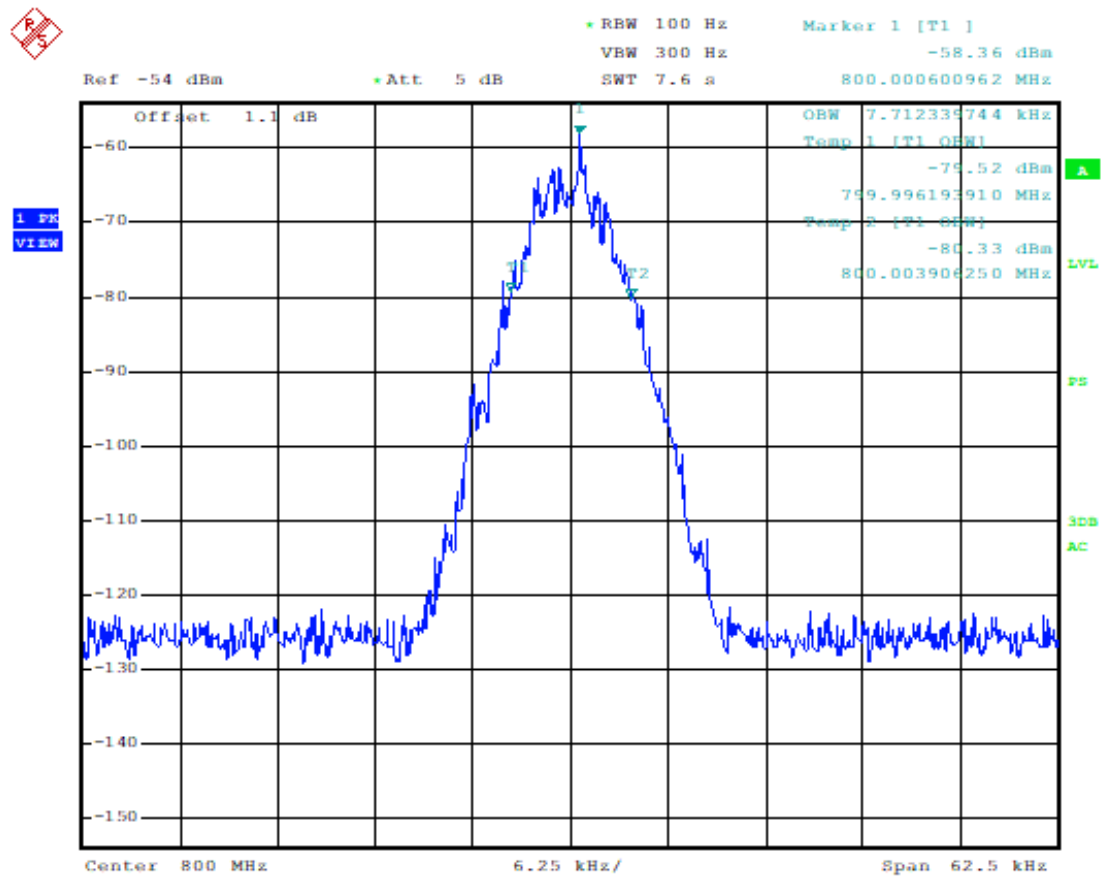
Date: 30.JAN.2019 14:19:45

8.5.3 25 kHz FM, Input Signal



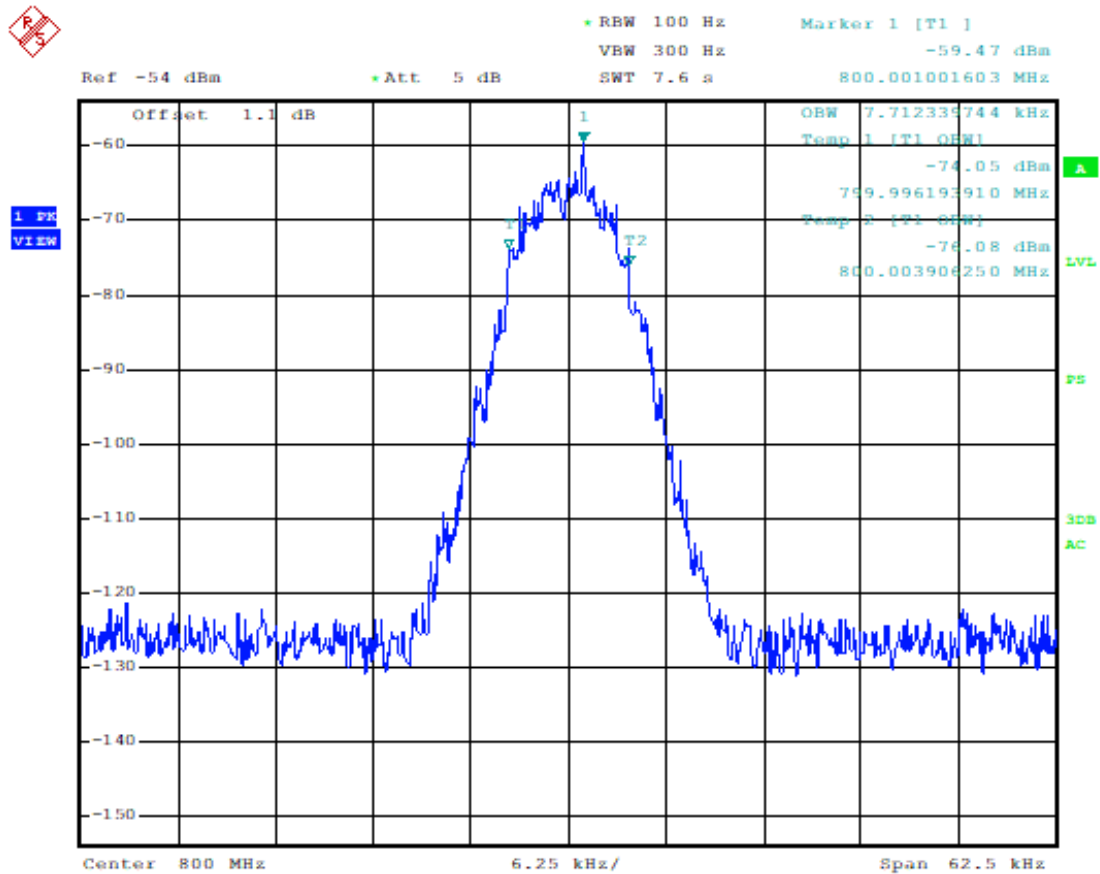
Date: 30.JAN.2019 14:23:14

8.5.4 C4FM, Input Signal



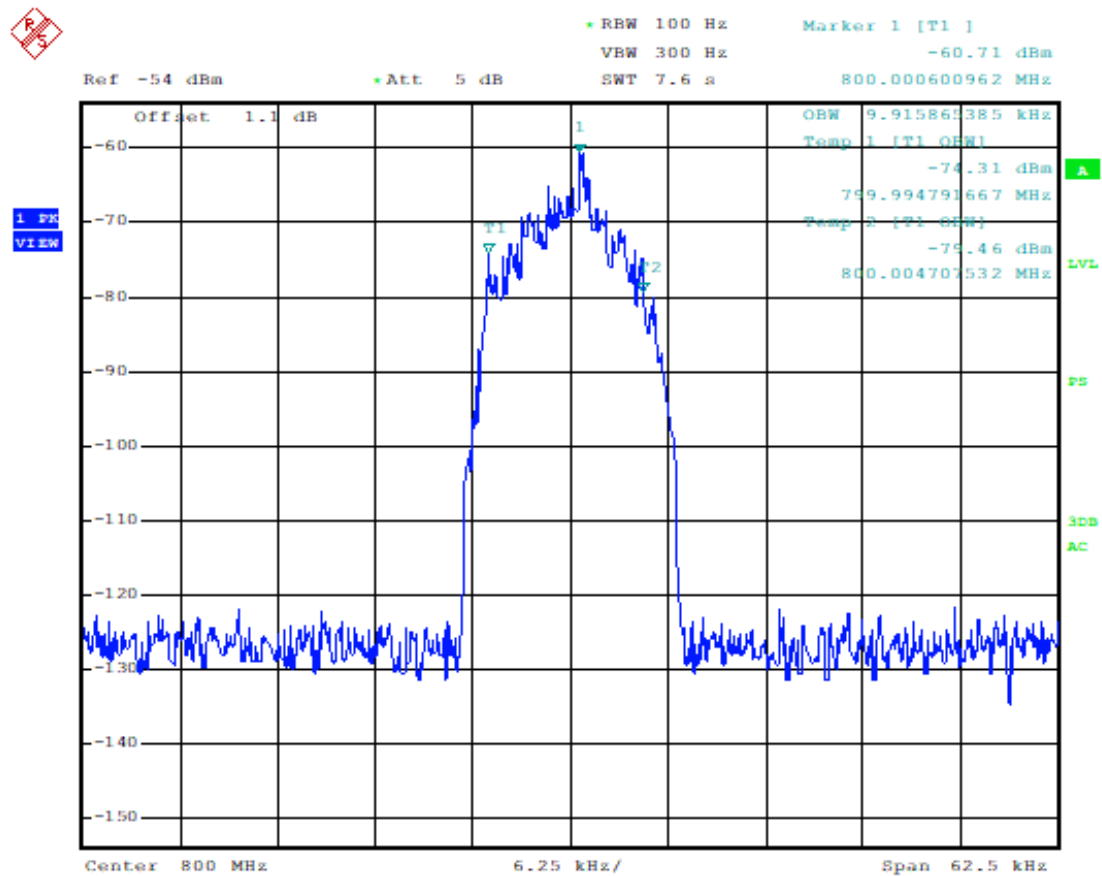
Date: 30.JAN.2019 14:28:58

8.5.5 H-CPM, Input Signal



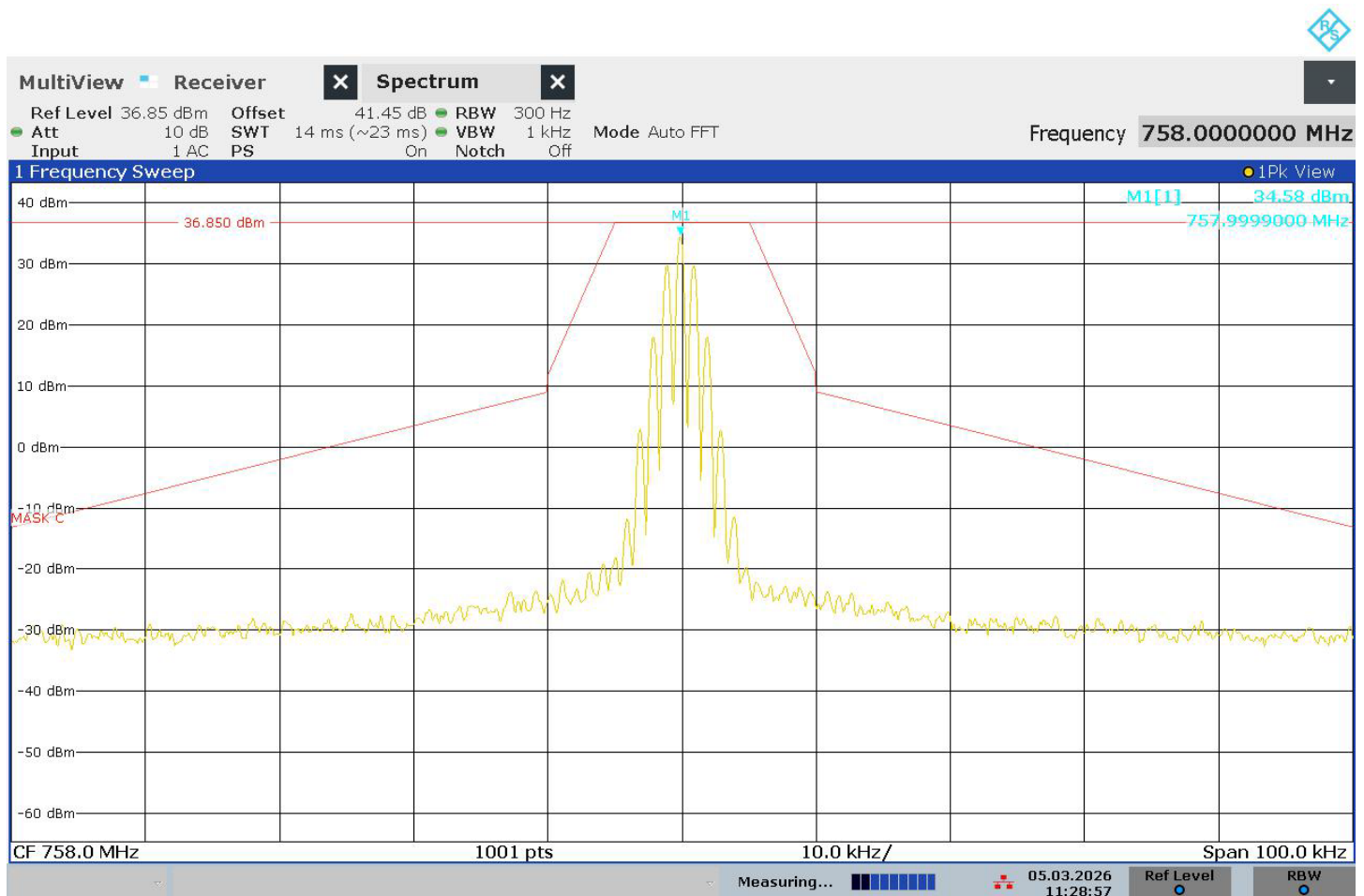
Date: 30.JAN.2019 14:30:47

8.5.6 H-DQPSK, Input Signal



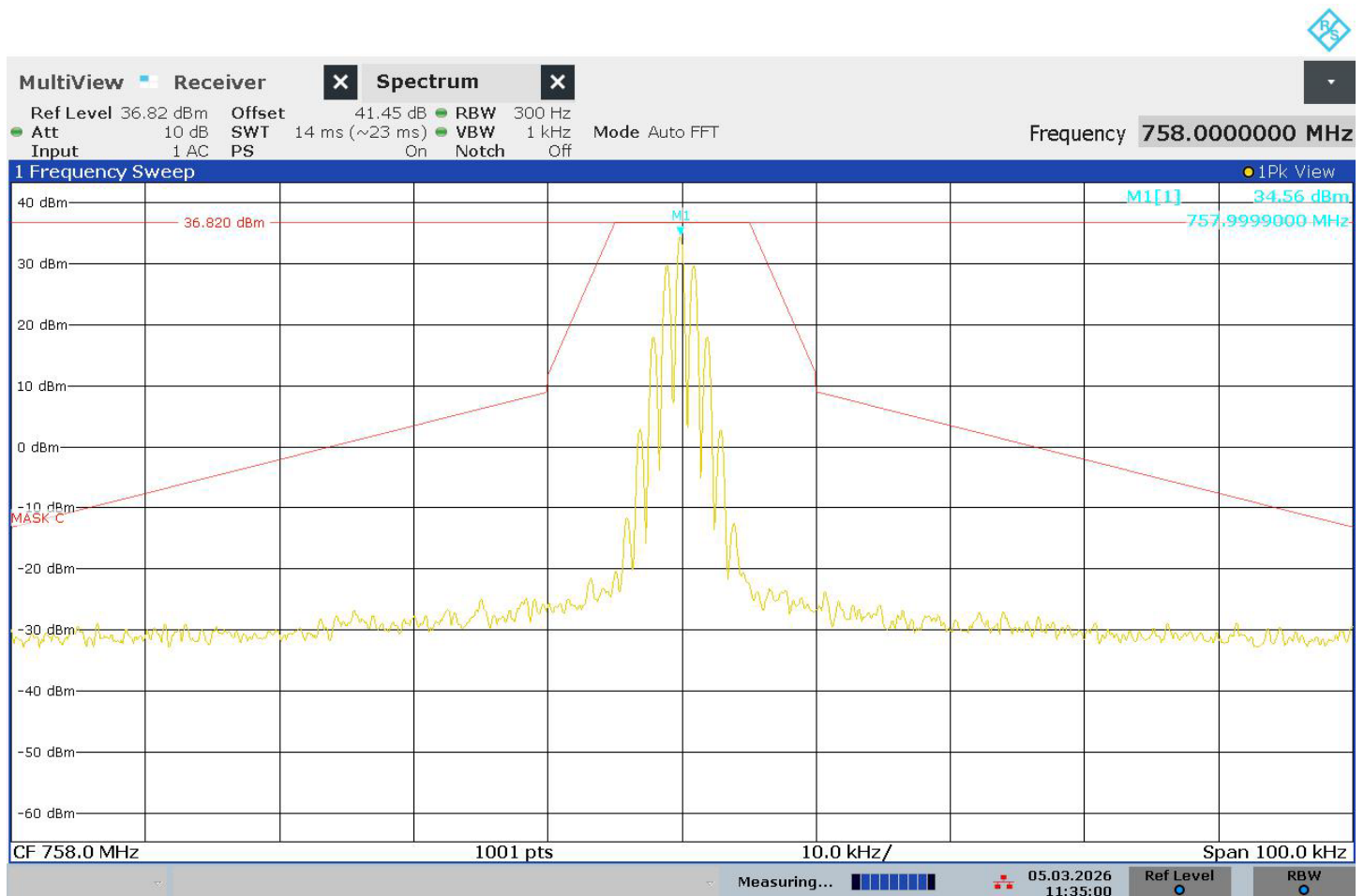
Date: 30.JAN.2019 14:32:35

8.5.7 6.25 kHz, FM, DL Mask C, AGC, 758 MHz



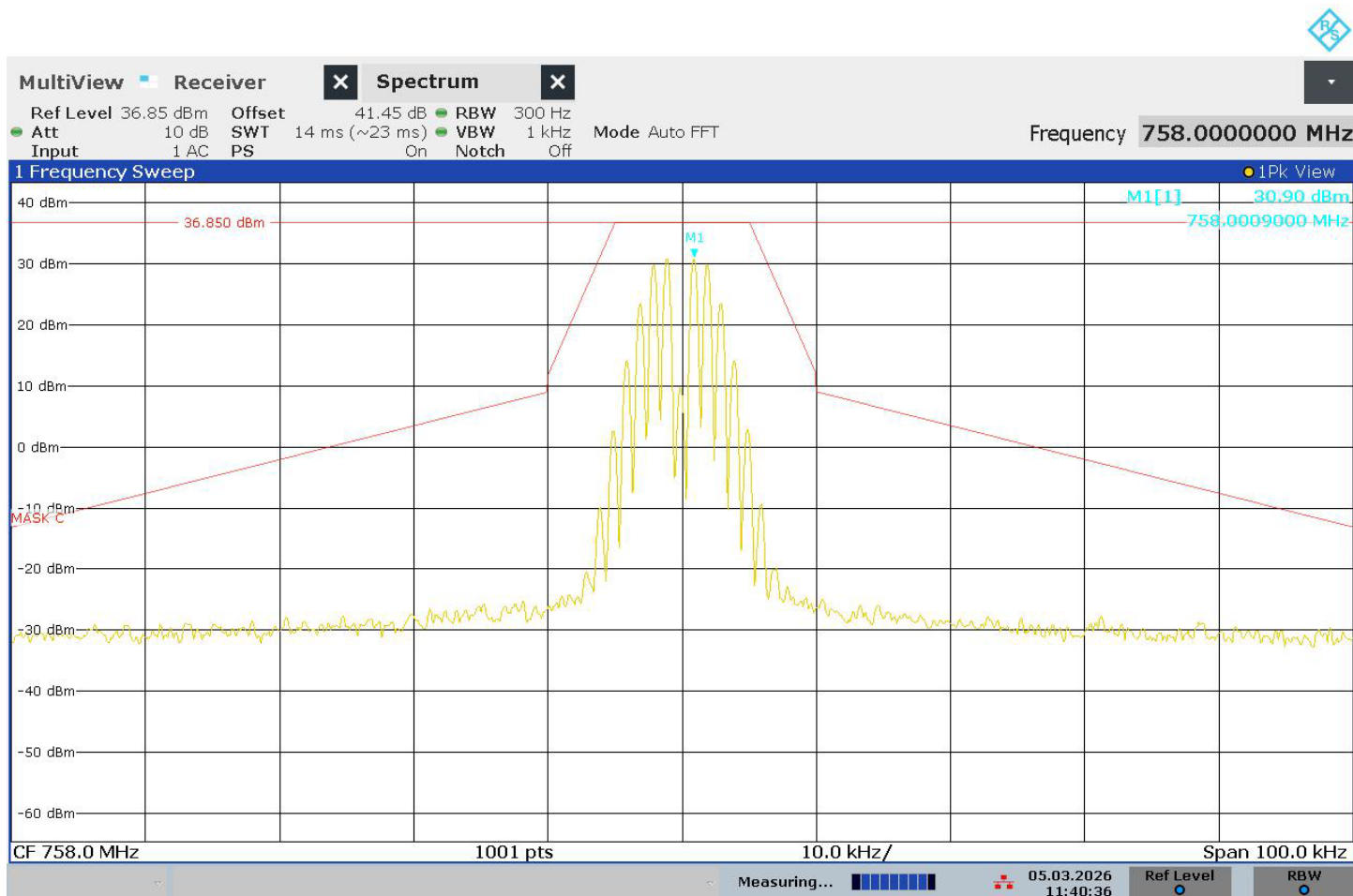
11:28:58 05.03.2026

8.5.8 6.25 kHz, FM, DL Mask C, AGC +3, 758 MHz



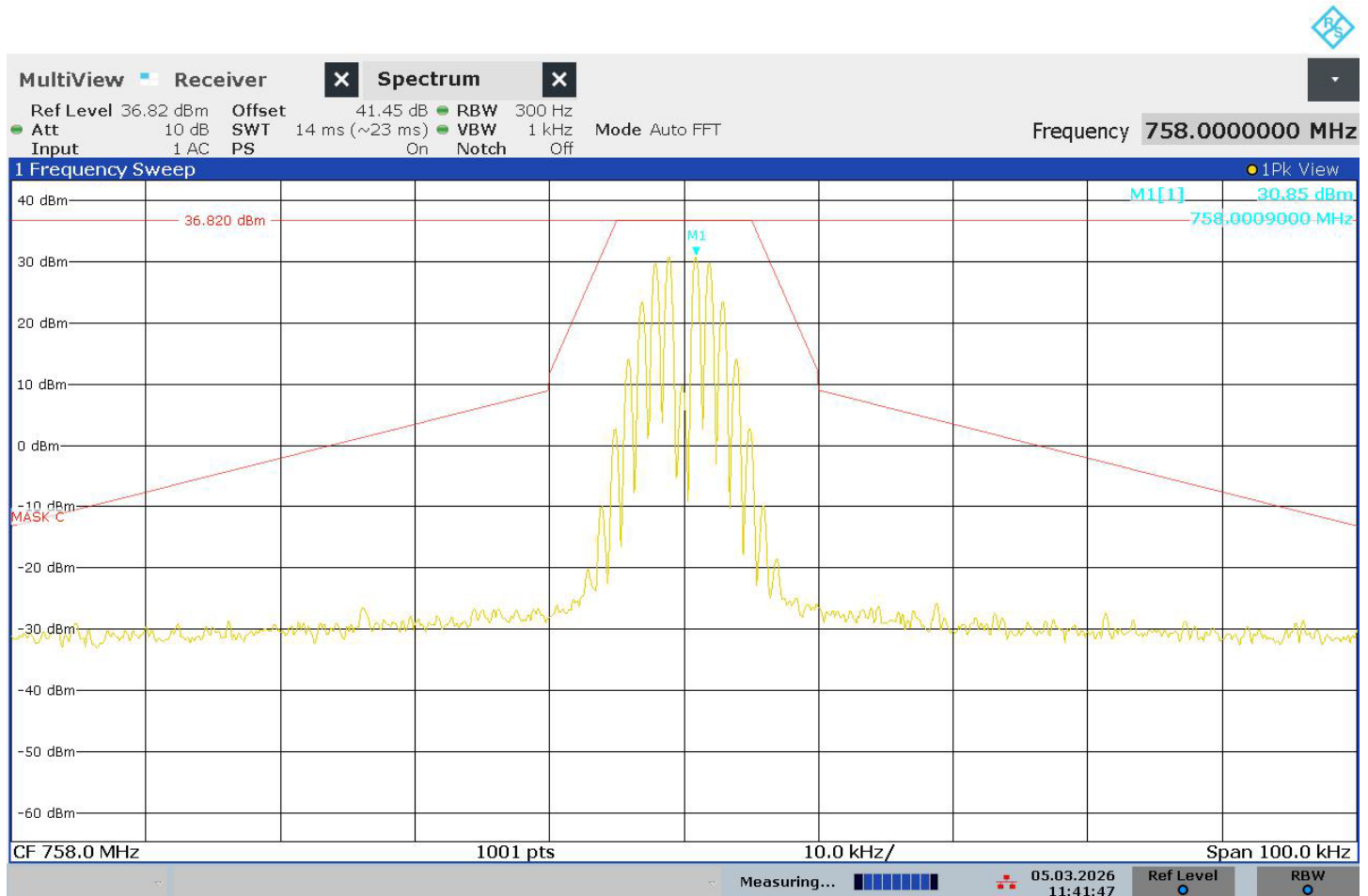
11:35:01 05.03.2026

8.5.9 12.5 kHz, FM, DL Mask C, AGC, 758 MHz



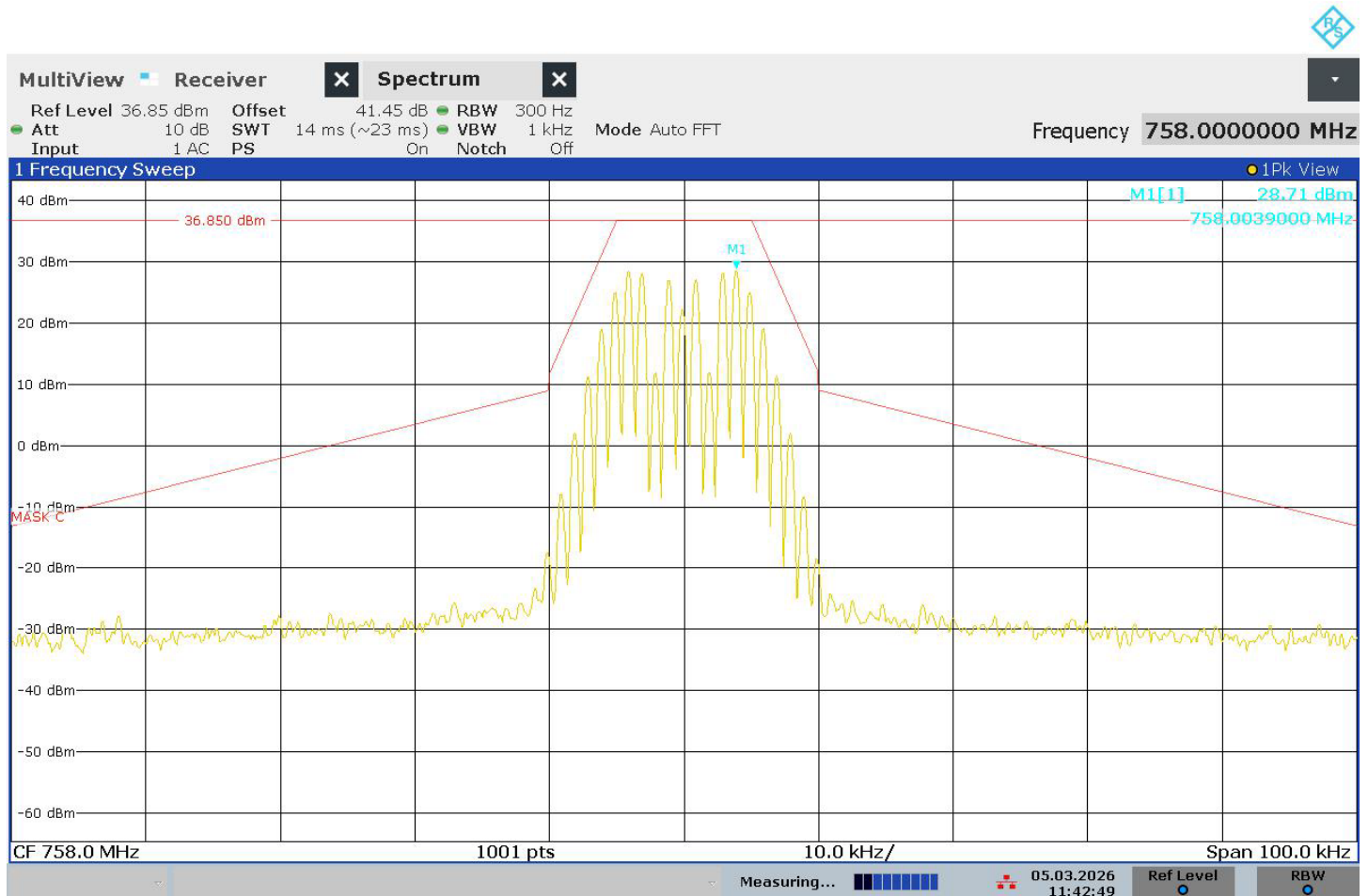
11:40:37 05.03.2026

8.5.10 12.5 kHz, FM, DL Mask C, AGC+3, 758 MHz



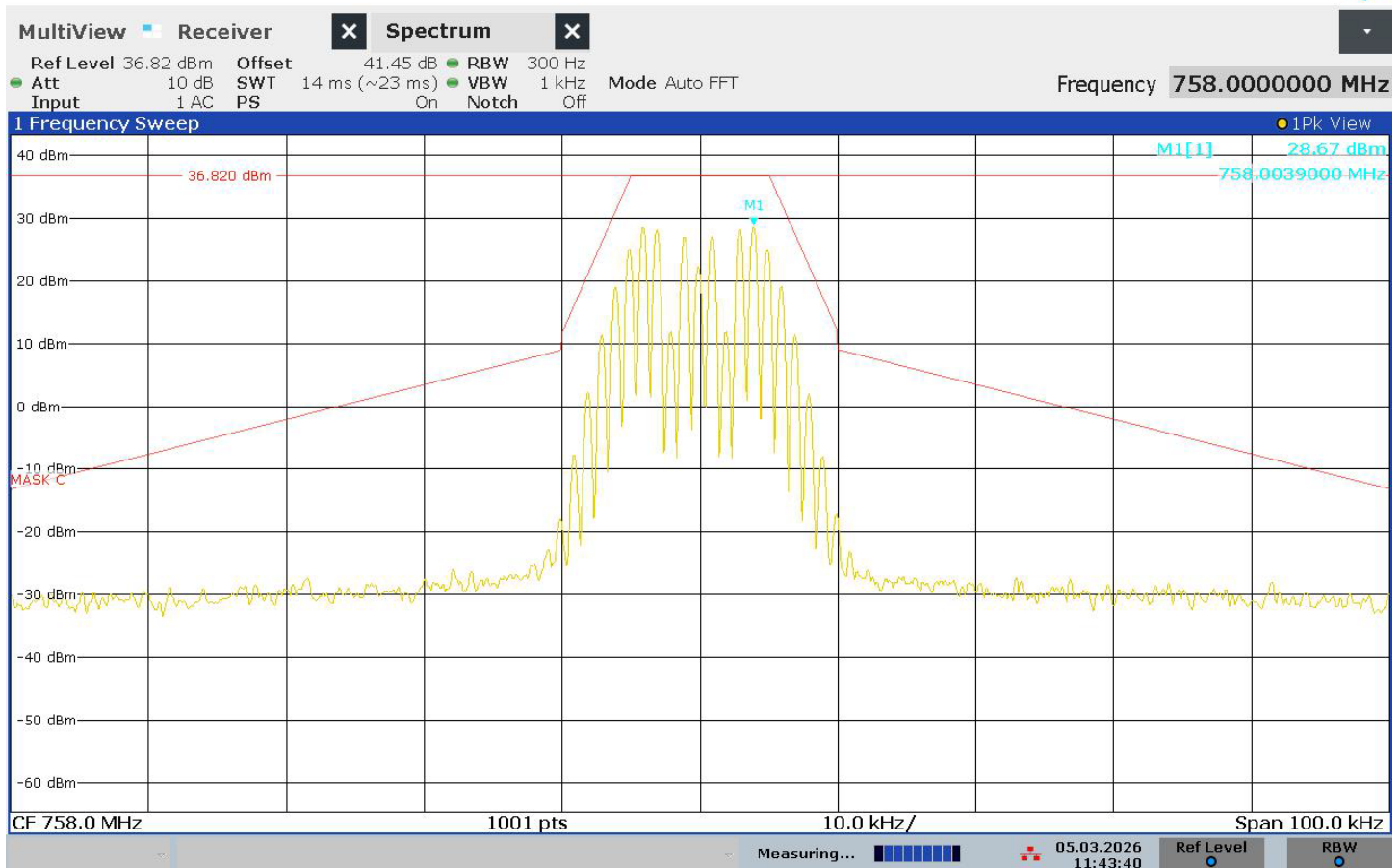
11:41:48 05.03.2026

8.5.11 25 kHz FM, DL Mask C, AGC, 758 MHz



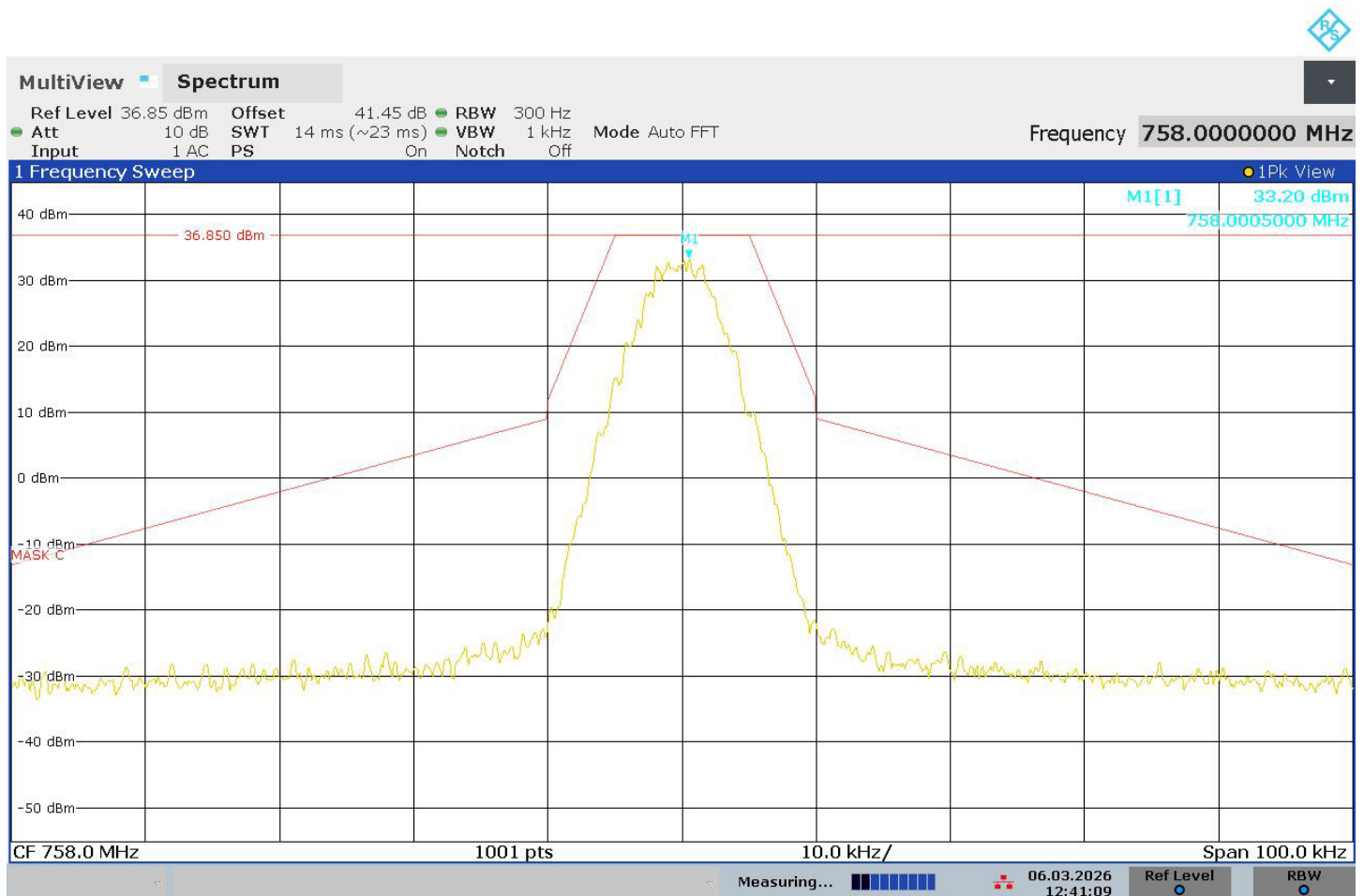
11:42:50 05.03.2026

8.5.12 25 kHz FM, DL Mask C, AGC+3, 758 MHz



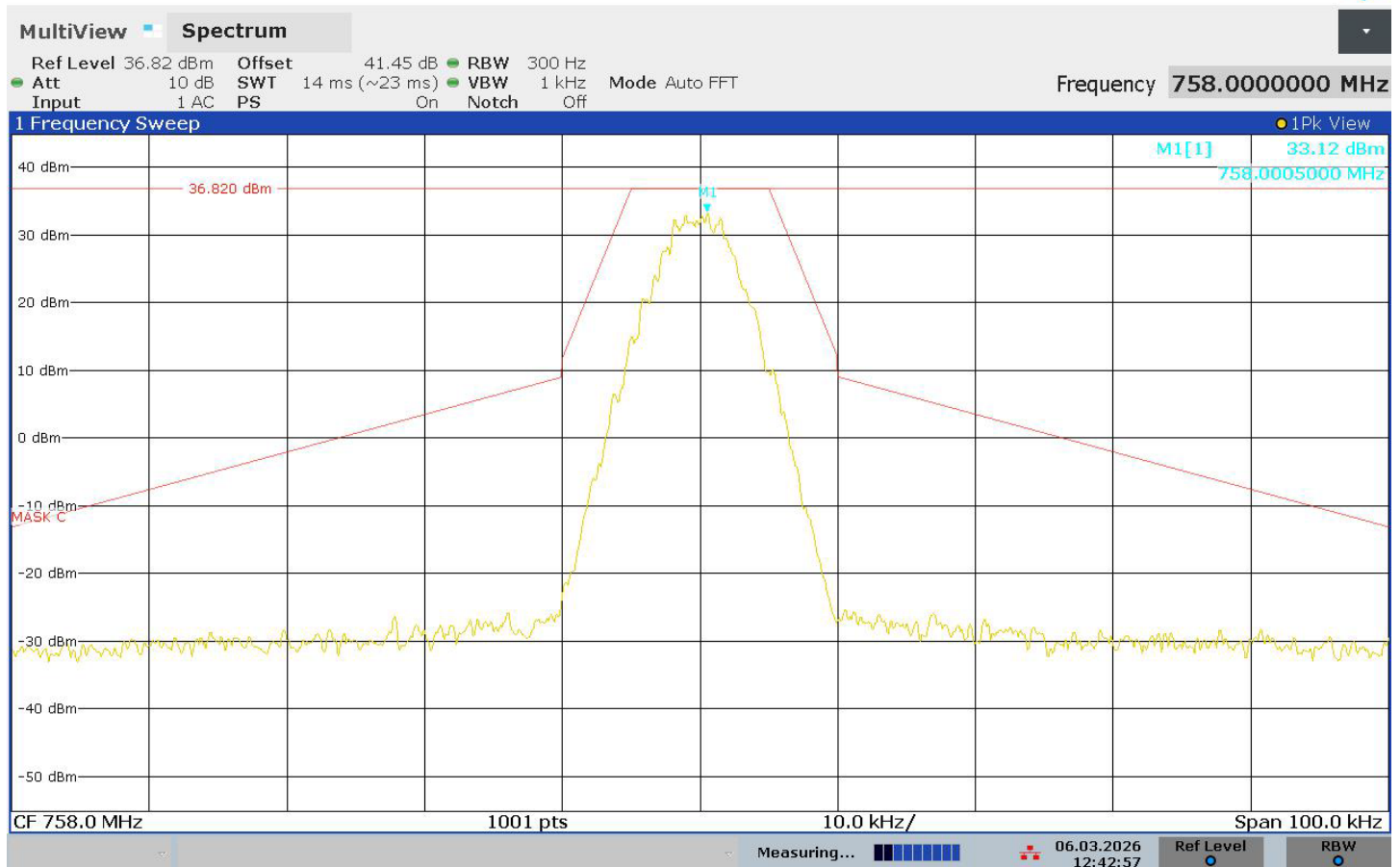
11:43:41 05.03.2026

8.5.13 C4FM, DL Mask C, AGC, 758 MHz



12:41:09 06.03.2026

8.5.14 C4FM, DL Mask C, AGC+3, 758 MHz



12:42:57 06.03.2026