

**CTK Co., Ltd.**

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		6.2 GHz to 18 GHz	-48.02	-47.42	-46.89	-47.93	-31.06	-15.83
		18 GHz to 28 GHz	-46.39	-47.40	-47.27	-46.73	-31.06	-15.33
	37	9 kHz to 150 kHz	-71.45	-70.66	-70.09	-70.16	-61.06	-9.03
		150 kHz to 30 MHz	-60.20	-59.08	-58.69	-58.92	-51.06	-7.63
		30 MHz to 1 GHz	-54.42	-54.36	-54.05	-55.10	-31.06	-22.99
		1GHz to 2.450 GHz	-53.19	-55.00	-53.89	-52.11	-31.06	-21.05
		2.450 GHz to 2.495 GHz	-48.13	-47.37	-46.34	-46.86	-41.06	-5.28
		2.691 GHz to 2.750 GHz	-43.74	-43.69	-43.66	-44.08	-41.06	-2.60
		2.750 GHz to 6.2 GHz	-40.26	-43.75	-43.42	-43.29	-31.06	-9.20
		6.2 GHz to 18 GHz	-48.10	-48.91	-48.48	-48.27	-31.06	-17.04
		18 GHz to 28 GHz	-47.22	-46.75	-46.46	-47.43	-31.06	-15.40
		9 kHz to 150 kHz	-69.60	-70.99	-69.31	-69.28	-61.06	-8.22
	38	150 kHz to 30 MHz	-60.66	-59.47	-58.87	-59.81	-51.06	-7.81
		30 MHz to 1 GHz	-53.85	-54.16	-52.99	-53.42	-31.06	-21.93
		1GHz to 2.450 GHz	-52.23	-52.90	-52.21	-51.97	-31.06	-20.91
		2.450 GHz to 2.495 GHz	-47.04	-46.45	-46.39	-46.83	-41.06	-5.33
		2.691 GHz to 2.750 GHz	-44.92	-44.21	-44.07	-45.10	-41.06	-3.01
		2.750 GHz to 6.2 GHz	-41.96	-41.52	-41.22	-40.75	-31.06	-9.69
		6.2 GHz to 18 GHz	-48.16	-48.62	-48.08	-48.36	-31.06	-17.02
		18 GHz to 28 GHz	-47.22	-47.46	-46.81	-46.31	-31.06	-15.25
	39	9 kHz to 150 kHz	-71.30	-71.44	-70.70	-70.87	-61.06	-9.63
		150 kHz to 30 MHz	-59.73	-59.60	-58.48	-59.67	-51.06	-7.42
		30 MHz to 1 GHz	-55.20	-54.06	-53.67	-54.63	-31.06	-22.61
		1GHz to 2.450 GHz	-53.46	-53.91	-52.02	-51.99	-31.06	-20.93
		2.450 GHz to 2.495 GHz	-47.11	-47.39	-46.83	-47.34	-41.06	-5.77
		2.691 GHz to 2.750 GHz	-44.04	-44.15	-44.12	-45.08	-41.06	-2.97
		2.750 GHz to 6.2 GHz	-39.92	-42.40	-39.34	-40.96	-31.06	-8.28
		6.2 GHz to 18 GHz	-48.04	-48.70	-48.58	-47.64	-31.06	-16.58
	40	18 GHz to 28 GHz	-46.92	-46.67	-46.93	-47.43	-31.06	-15.61
		9 kHz to 150 kHz	-70.53	-71.59	-71.09	-70.40	-61.06	-9.34
		150 kHz to 30 MHz	-60.62	-59.72	-59.61	-58.72	-51.06	-7.66
		30 MHz to 1 GHz	-53.50	-54.31	-53.76	-54.85	-31.06	-22.44
		1GHz to 2.450 GHz	-53.17	-53.90	-52.83	-52.71	-31.06	-21.65
		2.450 GHz to 2.495 GHz	-47.42	-46.34	-45.74	-46.49	-41.06	-4.68
		2.691 GHz to 2.750 GHz	-43.55	-43.26	-43.38	-43.95	-41.06	-2.20
		2.750 GHz to 6.2 GHz	-40.57	-41.77	-40.66	-40.57	-31.06	-9.51
	41	6.2 GHz to 18 GHz	-47.44	-48.38	-47.82	-48.60	-31.06	-16.38
		18 GHz to 28 GHz	-45.91	-47.35	-46.31	-47.22	-31.06	-14.85
		9 kHz to 150 kHz	-70.52	-71.56	-70.87	-69.33	-61.06	-8.27
		150 kHz to 30 MHz	-60.82	-58.84	-59.12	-58.66	-51.06	-7.60
		30 MHz to 1 GHz	-55.83	-54.20	-53.85	-53.43	-31.06	-22.37
		1GHz to 2.450 GHz	-53.13	-54.78	-52.75	-53.98	-31.06	-21.69
		2.450 GHz to 2.495 GHz	-48.18	-46.89	-46.37	-47.24	-41.06	-5.31
		2.691 GHz to 2.750 GHz	-44.44	-44.19	-43.09	-44.32	-41.06	-2.03
		2.750 GHz to 6.2 GHz	-43.76	-43.50	-43.92	-42.08	-31.06	-11.02

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		6.2 GHz to 18 GHz	-48.37	-48.73	-48.22	-48.57	-31.06	-17.16
		18 GHz to 28 GHz	-46.42	-43.71	-46.93	-46.70	-31.06	-12.65
	42	9 kHz to 150 kHz	-71.21	-71.59	-71.39	-69.67	-61.06	-8.61
		150 kHz to 30 MHz	-60.27	-59.97	-59.96	-59.24	-51.06	-8.18
		30 MHz to 1 GHz	-54.96	-54.14	-53.35	-55.34	-31.06	-22.29
		1GHz to 2.450 GHz	-52.81	-53.53	-51.43	-53.75	-31.06	-20.37
		2.450 GHz to 2.495 GHz	-47.57	-47.17	-46.64	-46.84	-41.06	-5.58
		2.691 GHz to 2.750 GHz	-44.91	-44.61	-43.68	-45.32	-41.06	-2.62
		2.750 GHz to 6.2 GHz	-43.10	-43.04	-42.84	-43.23	-31.06	-11.78
		6.2 GHz to 18 GHz	-48.29	-48.61	-47.88	-49.18	-31.06	-16.82
		18 GHz to 28 GHz	-46.62	-47.84	-47.36	-47.26	-31.06	-15.56
		9 kHz to 150 kHz	-70.01	-70.49	-68.91	-71.91	-61.06	-7.85
	43	150 kHz to 30 MHz	-59.84	-60.02	-59.11	-59.41	-51.06	-8.05
		30 MHz to 1 GHz	-54.69	-55.08	-53.26	-54.21	-31.06	-22.20
		1GHz to 2.450 GHz	-52.25	-51.15	-51.29	-52.48	-31.06	-20.09
		2.450 GHz to 2.495 GHz	-47.30	-47.64	-46.55	-47.61	-41.06	-5.49
		2.691 GHz to 2.750 GHz	-44.21	-43.53	-44.32	-43.83	-41.06	-2.47
		2.750 GHz to 6.2 GHz	-39.59	-39.18	-39.27	-40.31	-31.06	-8.12
		6.2 GHz to 18 GHz	-48.12	-47.55	-47.97	-47.88	-31.06	-16.49
		18 GHz to 28 GHz	-48.03	-47.46	-47.62	-46.87	-31.06	-15.81
	44	9 kHz to 150 kHz	-71.03	-70.80	-69.01	-70.18	-61.06	-7.95
		150 kHz to 30 MHz	-59.44	-57.90	-59.20	-58.15	-51.06	-6.84
		30 MHz to 1 GHz	-54.43	-53.75	-52.63	-54.25	-31.06	-21.57
		1GHz to 2.450 GHz	-51.59	-52.26	-52.73	-52.30	-31.06	-20.53
		2.450 GHz to 2.495 GHz	-48.71	-47.89	-47.42	-47.91	-41.06	-6.36
		2.691 GHz to 2.750 GHz	-44.70	-44.89	-44.50	-45.10	-41.06	-3.44
		2.750 GHz to 6.2 GHz	-41.74	-41.24	-39.54	-40.37	-31.06	-8.48
		6.2 GHz to 18 GHz	-48.14	-48.72	-48.50	-48.56	-31.06	-17.08
	45	18 GHz to 28 GHz	-47.19	-46.65	-47.66	-47.52	-31.06	-15.59
		9 kHz to 150 kHz	-72.76	-71.75	-69.39	-69.89	-61.06	-8.33
		150 kHz to 30 MHz	-60.67	-59.23	-59.20	-59.46	-51.06	-8.14
		30 MHz to 1 GHz	-54.98	-54.15	-53.98	-55.19	-31.06	-22.92
		1GHz to 2.450 GHz	-53.83	-54.24	-52.99	-53.82	-31.06	-21.93
		2.450 GHz to 2.495 GHz	-48.35	-47.02	-47.02	-47.11	-41.06	-5.96
		2.691 GHz to 2.750 GHz	-45.58	-43.87	-43.97	-44.56	-41.06	-2.81
		2.750 GHz to 6.2 GHz	-40.93	-42.78	-40.69	-41.59	-31.06	-9.63
	46	6.2 GHz to 18 GHz	-47.98	-49.00	-48.28	-48.59	-31.06	-16.92
		18 GHz to 28 GHz	-47.77	-47.12	-46.96	-46.78	-31.06	-15.72
		9 kHz to 150 kHz	-69.59	-70.20	-69.16	-72.17	-61.06	-8.10
		150 kHz to 30 MHz	-60.62	-59.43	-59.28	-58.87	-51.06	-7.81
		30 MHz to 1 GHz	-55.35	-54.54	-54.35	-54.54	-31.06	-23.29
		1GHz to 2.450 GHz	-52.91	-53.38	-52.80	-54.01	-31.06	-21.74
		2.450 GHz to 2.495 GHz	-47.73	-47.41	-46.70	-47.44	-41.06	-5.64
		2.691 GHz to 2.750 GHz	-44.60	-44.90	-45.06	-44.65	-41.06	-3.54
		2.750 GHz to 6.2 GHz	-41.57	-42.88	-42.80	-42.92	-31.06	-10.51

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		6.2 GHz to 18 GHz	-48.01	-48.46	-48.43	-48.17	-31.06	-16.95
		18 GHz to 28 GHz	-47.42	-47.29	-47.39	-46.60	-31.06	-15.54
	47	9 kHz to 150 kHz	-72.34	-72.21	-69.28	-68.51	-61.06	-7.44
		150 kHz to 30 MHz	-59.09	-59.38	-58.42	-58.32	-51.06	-7.26
		30 MHz to 1 GHz	-54.06	-54.44	-54.43	-54.61	-31.06	-23.00
		1GHz to 2.450 GHz	-52.82	-51.95	-52.98	-52.91	-31.06	-20.89
		2.450 GHz to 2.495 GHz	-46.95	-46.99	-46.48	-46.88	-41.06	-5.42
		2.691 GHz to 2.750 GHz	-43.98	-44.41	-44.06	-44.47	-41.06	-2.92
		2.750 GHz to 6.2 GHz	-40.93	-42.05	-41.70	-41.32	-31.06	-9.87
		6.2 GHz to 18 GHz	-48.02	-48.46	-48.28	-48.13	-31.06	-16.96
		18 GHz to 28 GHz	-47.71	-47.59	-46.38	-47.01	-31.06	-15.32
		9 kHz to 150 kHz	-70.21	-70.92	-71.23	-67.69	-61.06	-6.63
	48	150 kHz to 30 MHz	-60.17	-59.79	-58.28	-59.13	-51.06	-7.22
		30 MHz to 1 GHz	-54.44	-53.83	-53.23	-54.77	-31.06	-22.17
		1GHz to 2.450 GHz	-53.98	-53.58	-52.85	-54.04	-31.06	-21.79
		2.450 GHz to 2.495 GHz	-47.37	-46.49	-45.97	-46.60	-41.06	-4.91
		2.691 GHz to 2.750 GHz	-43.83	-44.25	-43.45	-44.59	-41.06	-2.39
		2.750 GHz to 6.2 GHz	-42.95	-43.67	-40.44	-40.84	-31.06	-9.38
		6.2 GHz to 18 GHz	-48.48	-49.00	-48.03	-48.15	-31.06	-16.97
		18 GHz to 28 GHz	-47.02	-46.85	-47.01	-47.35	-31.06	-15.79
	49	9 kHz to 150 kHz	-70.05	-71.15	-69.53	-70.36	-61.06	-8.47
		150 kHz to 30 MHz	-60.61	-59.93	-59.40	-59.20	-51.06	-8.14
		30 MHz to 1 GHz	-54.42	-55.45	-54.35	-54.16	-31.06	-23.10
		1GHz to 2.450 GHz	-53.67	-53.93	-51.77	-52.89	-31.06	-20.71
		2.450 GHz to 2.495 GHz	-47.82	-46.55	-46.30	-46.74	-41.06	-5.24
		2.691 GHz to 2.750 GHz	-43.54	-43.70	-43.47	-43.90	-41.06	-2.41
		2.750 GHz to 6.2 GHz	-40.79	-43.86	-43.03	-43.75	-31.06	-9.73
		6.2 GHz to 18 GHz	-48.28	-47.76	-48.05	-48.42	-31.06	-16.70
	50	18 GHz to 28 GHz	-48.35	-47.95	-46.28	-47.35	-31.06	-15.22
		9 kHz to 150 kHz	-70.40	-70.03	-71.04	-69.58	-61.06	-8.52
		150 kHz to 30 MHz	-58.63	-59.96	-59.56	-58.44	-51.06	-7.38
		30 MHz to 1 GHz	-54.50	-55.13	-53.88	-54.43	-31.06	-22.82
		1GHz to 2.450 GHz	-53.18	-53.59	-53.97	-53.14	-31.06	-22.08
		2.450 GHz to 2.495 GHz	-48.02	-46.88	-47.06	-47.88	-41.06	-5.82
		2.691 GHz to 2.750 GHz	-43.45	-42.91	-44.41	-44.36	-41.06	-1.85
		2.750 GHz to 6.2 GHz	-42.26	-43.41	-43.40	-43.11	-31.06	-11.20
	51	6.2 GHz to 18 GHz	-47.89	-48.10	-47.93	-48.66	-31.06	-16.83
		18 GHz to 28 GHz	-47.39	-47.27	-47.41	-45.55	-31.06	-14.49
		9 kHz to 150 kHz	-70.79	-72.04	-70.74	-70.46	-61.06	-9.40
		150 kHz to 30 MHz	-60.19	-60.24	-58.54	-59.57	-51.06	-7.48
		30 MHz to 1 GHz	-54.82	-54.58	-54.85	-54.51	-31.06	-23.45
		1GHz to 2.450 GHz	-52.57	-54.54	-53.84	-52.53	-31.06	-21.47
		2.450 GHz to 2.495 GHz	-46.31	-46.39	-46.30	-46.38	-41.06	-5.24
		2.691 GHz to 2.750 GHz	-43.15	-43.44	-43.70	-43.03	-41.06	-1.97
		2.750 GHz to 6.2 GHz	-42.89	-43.51	-44.88	-43.58	-31.06	-11.83

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		6.2 GHz to 18 GHz	-46.78	-47.12	-46.80	-48.37	-31.06	-15.72
		18 GHz to 28 GHz	-48.20	-47.22	-46.92	-47.30	-31.06	-15.86
	52	9 kHz to 150 kHz	-69.65	-71.11	-68.05	-69.91	-61.06	-6.99
		150 kHz to 30 MHz	-59.57	-59.09	-58.92	-59.03	-51.06	-7.86
		30 MHz to 1 GHz	-54.06	-55.17	-54.76	-54.45	-31.06	-23.00
		1GHz to 2.450 GHz	-51.43	-52.62	-51.70	-52.32	-31.06	-20.37
		2.450 GHz to 2.495 GHz	-47.21	-46.38	-45.99	-46.62	-41.06	-4.93
		2.691 GHz to 2.750 GHz	-43.99	-43.60	-44.74	-43.70	-41.06	-2.54
		2.750 GHz to 6.2 GHz	-39.56	-38.91	-38.80	-39.79	-31.06	-7.74
		6.2 GHz to 18 GHz	-48.09	-48.63	-48.50	-49.29	-31.06	-17.03
		18 GHz to 28 GHz	-47.01	-46.46	-47.19	-47.22	-31.06	-15.40
		9 kHz to 150 kHz	-70.08	-70.45	-70.50	-71.65	-61.06	-9.02
	53	150 kHz to 30 MHz	-59.70	-59.08	-59.99	-59.27	-51.06	-8.02
		30 MHz to 1 GHz	-54.75	-55.64	-55.66	-53.26	-31.06	-22.20
		1GHz to 2.450 GHz	-53.62	-53.99	-53.63	-53.77	-31.06	-22.56
		2.450 GHz to 2.495 GHz	-48.12	-46.60	-46.59	-47.00	-41.06	-5.53
		2.691 GHz to 2.750 GHz	-45.77	-44.12	-44.72	-44.48	-41.06	-3.06
		2.750 GHz to 6.2 GHz	-43.50	-43.51	-41.33	-42.40	-31.06	-10.27
		6.2 GHz to 18 GHz	-48.60	-48.87	-47.94	-48.47	-31.06	-16.88
		18 GHz to 28 GHz	-47.48	-47.35	-45.44	-46.80	-31.06	-14.38
		9 kHz to 150 kHz	-69.48	-70.53	-69.91	-69.36	-61.06	-8.30
	54	150 kHz to 30 MHz	-59.54	-60.32	-58.16	-58.32	-51.06	-7.10
		30 MHz to 1 GHz	-53.92	-54.20	-54.03	-53.29	-31.06	-22.23
		1GHz to 2.450 GHz	-52.16	-53.14	-51.86	-52.81	-31.06	-20.80
		2.450 GHz to 2.495 GHz	-46.90	-46.52	-45.38	-46.66	-41.06	-4.32
		2.691 GHz to 2.750 GHz	-44.13	-43.09	-44.53	-44.38	-41.06	-2.03
		2.750 GHz to 6.2 GHz	-41.03	-40.86	-40.93	-40.92	-31.06	-9.80
		6.2 GHz to 18 GHz	-47.61	-47.74	-49.20	-48.13	-31.06	-16.55
		18 GHz to 28 GHz	-47.28	-47.49	-46.89	-47.39	-31.06	-15.83
		9 kHz to 150 kHz	-70.37	-72.64	-68.51	-69.96	-61.06	-7.44
	55	150 kHz to 30 MHz	-58.56	-60.56	-58.93	-59.06	-51.06	-7.50
		30 MHz to 1 GHz	-54.47	-54.55	-54.65	-54.47	-31.06	-23.41
		1GHz to 2.450 GHz	-53.80	-52.34	-52.13	-53.06	-31.06	-21.07
		2.450 GHz to 2.495 GHz	-46.43	-46.54	-45.61	-46.55	-41.06	-4.55
		2.691 GHz to 2.750 GHz	-44.22	-43.92	-44.20	-44.67	-41.06	-2.86
		2.750 GHz to 6.2 GHz	-40.36	-42.69	-40.99	-39.89	-31.06	-8.83
		6.2 GHz to 18 GHz	-48.58	-48.94	-48.04	-48.40	-31.06	-16.98
		18 GHz to 28 GHz	-46.81	-47.28	-47.24	-46.89	-31.06	-15.75
		9 kHz to 150 kHz	-71.67	-70.71	-69.14	-68.72	-61.06	-7.66
	56	150 kHz to 30 MHz	-58.09	-59.62	-58.61	-58.18	-51.06	-7.03
		30 MHz to 1 GHz	-53.68	-54.78	-53.43	-53.19	-31.06	-22.13
		1GHz to 2.450 GHz	-52.45	-53.23	-50.94	-52.35	-31.06	-19.88
		2.450 GHz to 2.495 GHz	-46.63	-45.76	-45.45	-45.92	-41.06	-4.39
		2.691 GHz to 2.750 GHz	-42.97	-43.03	-44.07	-43.52	-41.06	-1.91
		2.750 GHz to 6.2 GHz	-41.04	-41.75	-41.03	-40.91	-31.06	-9.85

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		6.2 GHz to 18 GHz	-47.85	-47.98	-48.22	-48.59	-31.06	-16.79
		18 GHz to 28 GHz	-47.50	-46.25	-46.76	-46.75	-31.06	-15.19
	57	9 kHz to 150 kHz	-70.94	-72.08	-69.43	-69.21	-61.06	-8.15
		150 kHz to 30 MHz	-59.86	-59.27	-57.51	-58.43	-51.06	-6.45
		30 MHz to 1 GHz	-53.83	-54.41	-53.82	-54.23	-31.06	-22.76
		1GHz to 2.450 GHz	-52.59	-53.54	-52.41	-53.34	-31.06	-21.35
		2.450 GHz to 2.495 GHz	-46.76	-45.53	-44.65	-45.53	-41.06	-3.59
		2.691 GHz to 2.750 GHz	-43.15	-43.20	-42.92	-43.80	-41.06	-1.86
		2.750 GHz to 6.2 GHz	-40.03	-42.79	-41.48	-41.93	-31.06	-8.97
		6.2 GHz to 18 GHz	-48.29	-48.66	-48.78	-47.93	-31.06	-16.87
		18 GHz to 28 GHz	-47.56	-47.27	-46.94	-46.94	-31.06	-15.88
		9 kHz to 150 kHz	-69.28	-71.22	-70.02	-68.60	-61.06	-7.54
	58	150 kHz to 30 MHz	-57.49	-58.71	-57.95	-58.13	-51.06	-6.43
		30 MHz to 1 GHz	-53.53	-55.30	-53.79	-54.51	-31.06	-22.47
		1GHz to 2.450 GHz	-52.99	-53.03	-52.41	-53.84	-31.06	-21.35
		2.450 GHz to 2.495 GHz	-46.67	-46.54	-46.16	-46.55	-41.06	-5.10
		2.691 GHz to 2.750 GHz	-44.93	-44.52	-44.36	-44.94	-41.06	-3.30
		2.750 GHz to 6.2 GHz	-42.25	-43.01	-41.29	-41.24	-31.06	-10.18
		6.2 GHz to 18 GHz	-48.58	-47.75	-47.90	-48.10	-31.06	-16.69
		18 GHz to 28 GHz	-46.59	-47.00	-47.18	-45.99	-31.06	-14.93
	59	9 kHz to 150 kHz	-70.59	-69.55	-69.81	-69.07	-61.06	-8.01
		150 kHz to 30 MHz	-60.62	-59.43	-59.06	-59.03	-51.06	-7.97
		30 MHz to 1 GHz	-54.42	-54.36	-53.39	-53.41	-31.06	-22.33
		1GHz to 2.450 GHz	-51.94	-52.69	-50.55	-52.13	-31.06	-19.49
		2.450 GHz to 2.495 GHz	-46.37	-46.60	-46.66	-46.93	-41.06	-5.31
		2.691 GHz to 2.750 GHz	-43.80	-43.70	-44.45	-44.14	-41.06	-2.64
		2.750 GHz to 6.2 GHz	-40.03	-40.88	-41.00	-41.29	-31.06	-8.97
		6.2 GHz to 18 GHz	-48.78	-47.00	-47.97	-48.29	-31.06	-15.94
	60	18 GHz to 28 GHz	-48.10	-47.38	-47.41	-46.53	-31.06	-15.47
		9 kHz to 150 kHz	-71.54	-70.95	-70.58	-69.59	-61.06	-8.53
		150 kHz to 30 MHz	-60.95	-61.30	-59.94	-58.93	-51.06	-7.87
		30 MHz to 1 GHz	-53.98	-54.57	-54.48	-54.33	-31.06	-22.92
		1GHz to 2.450 GHz	-53.13	-53.21	-51.37	-53.00	-31.06	-20.31
		2.450 GHz to 2.495 GHz	-47.29	-46.00	-46.08	-46.21	-41.06	-4.94
		2.691 GHz to 2.750 GHz	-43.09	-43.28	-43.35	-44.67	-41.06	-2.03
		2.750 GHz to 6.2 GHz	-42.17	-42.02	-40.86	-40.61	-31.06	-9.55
	61	6.2 GHz to 18 GHz	-48.08	-48.96	-48.63	-48.26	-31.06	-17.02
		18 GHz to 28 GHz	-46.68	-46.39	-46.28	-47.39	-31.06	-15.22
		9 kHz to 150 kHz	-69.64	-70.64	-71.71	-71.16	-61.06	-8.58
		150 kHz to 30 MHz	-60.69	-60.09	-58.45	-59.12	-51.06	-7.39
		30 MHz to 1 GHz	-54.90	-54.52	-54.92	-54.10	-31.06	-23.04
		1GHz to 2.450 GHz	-52.73	-53.39	-52.86	-52.32	-31.06	-21.26
		2.450 GHz to 2.495 GHz	-48.16	-46.17	-46.87	-47.08	-41.06	-5.11
		2.691 GHz to 2.750 GHz	-43.73	-43.72	-44.10	-44.98	-41.06	-2.66
		2.750 GHz to 6.2 GHz	-42.59	-42.94	-42.44	-43.33	-31.06	-11.38



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		6.2 GHz to 18 GHz	-48.50	-48.16	-47.14	-48.91	-31.06	-16.08
		18 GHz to 28 GHz	-47.45	-47.90	-47.81	-47.14	-31.06	-16.08
	62	9 kHz to 150 kHz	-70.37	-70.57	-70.03	-69.38	-61.06	-8.32
		150 kHz to 30 MHz	-60.61	-60.46	-58.80	-58.97	-51.06	-7.74
		30 MHz to 1 GHz	-55.06	-55.27	-55.08	-54.85	-31.06	-23.79
		1GHz to 2.450 GHz	-53.97	-53.76	-48.27	-52.39	-31.06	-17.21
		2.450 GHz to 2.495 GHz	-47.82	-47.36	-47.36	-46.41	-41.06	-5.35
		2.691 GHz to 2.750 GHz	-45.70	-44.86	-44.87	-45.19	-41.06	-3.80
		2.750 GHz to 6.2 GHz	-42.20	-43.08	-43.59	-42.95	-31.06	-11.14
		6.2 GHz to 18 GHz	-49.06	-47.39	-48.03	-47.82	-31.06	-16.33
		18 GHz to 28 GHz	-47.40	-47.49	-47.47	-47.69	-31.06	-16.34
	63	9 kHz to 150 kHz	-70.01	-71.84	-69.33	-68.49	-61.06	-7.43
		150 kHz to 30 MHz	-60.41	-60.44	-58.42	-58.87	-51.06	-7.36
		30 MHz to 1 GHz	-54.33	-53.76	-54.03	-54.58	-31.06	-22.70
		1GHz to 2.450 GHz	-52.82	-51.94	-51.99	-52.92	-31.06	-20.88
		2.450 GHz to 2.495 GHz	-46.67	-46.62	-46.59	-46.84	-41.06	-5.53
		2.691 GHz to 2.750 GHz	-44.54	-44.08	-44.48	-44.95	-41.06	-3.02
		2.750 GHz to 6.2 GHz	-40.93	-41.24	-39.35	-39.38	-31.06	-8.29
		6.2 GHz to 18 GHz	-47.75	-48.03	-49.02	-48.65	-31.06	-16.69
		18 GHz to 28 GHz	-46.76	-46.17	-47.25	-47.35	-31.06	-15.11

Table 8-13. Conducted Spurious Emission Summary Data (NR_1C_100M)



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Port	Measurement Range	Level (dBm)				Limit (dBm)	Worst Margin (dB)
		Low	Mid	High	Non-Continuous		
4	9 kHz to 150 kHz	-71.02	-72.00	-71.29	-71.50	-61.06	-9.96
	150 kHz to 30 MHz	-58.91	-57.33	-55.48	-57.81	-51.06	-4.42
	30 MHz to 1 GHz	-53.52	-53.96	-52.16	-54.56	-31.06	-21.10
	1GHz to 2.450 GHz	-49.13	-50.29	-49.35	-50.00	-31.06	-18.07
	2.450 GHz to 2.495 GHz	-44.20	-43.34	-44.05	-44.14	-41.06	-2.28
	2.691 GHz to 2.750 GHz	-43.82	-44.25	-43.78	-43.99	-41.06	-2.72
	2.750 GHz to 6.2 GHz	-38.68	-37.77	-38.03	-37.82	-31.06	-6.71
	6.2 GHz to 18 GHz	-47.62	-48.97	-47.48	-47.66	-31.06	-16.42
	18 GHz to 28 GHz	-46.25	-46.79	-46.31	-47.21	-31.06	-15.19
	9 kHz to 150 kHz	-71.20	-73.04	-71.43	-69.81	-61.06	-8.75
	150 kHz to 30 MHz	-58.63	-57.09	-56.38	-57.54	-51.06	-5.32
	30 MHz to 1 GHz	-54.01	-54.24	-54.32	-54.59	-31.06	-22.95
	1GHz to 2.108 GHz	-51.49	-50.74	-49.36	-50.59	-31.06	-18.30
	2.108 GHz to 2.109 GHz	-44.11	-44.86	-44.44	-44.69	-41.06	-3.05
	2.181 GHz to 3 GHz	-43.83	-43.97	-44.11	-44.29	-41.06	-2.77
	3 GHz to 6.2 GHz	-40.74	-38.72	-39.96	-40.21	-31.06	-7.66
43	6.2 GHz to 18 GHz	-47.96	-47.85	-47.37	-48.22	-31.06	-16.31
	18 GHz to 22 GHz	-46.93	-46.76	-46.39	-46.51	-31.06	-15.33
	9 kHz to 150 kHz	-73.05	-71.91	-71.05	-68.54	-61.06	-7.48
	150 kHz to 30 MHz	-58.46	-57.22	-55.69	-57.47	-51.06	-4.63
	30 MHz to 1 GHz	-55.33	-53.72	-54.73	-53.98	-31.06	-22.66
	1GHz to 2.108 GHz	-49.88	-50.15	-49.36	-50.28	-31.06	-18.30
	2.108 GHz to 2.109 GHz	-44.22	-43.82	-43.79	-44.11	-41.06	-2.73
	2.181 GHz to 3 GHz	-43.64	-43.79	-44.28	-43.73	-41.06	-2.58
	3 GHz to 6.2 GHz	-40.97	-39.28	-39.69	-38.34	-31.06	-7.28
	6.2 GHz to 18 GHz	-47.95	-48.66	-48.06	-47.12	-31.06	-16.06
	18 GHz to 22 GHz	-46.56	-47.36	-46.58	-46.06	-31.06	-15.00
	9 kHz to 150 kHz	-70.66	-70.92	-68.78	-69.96	-61.06	-7.72
	150 kHz to 30 MHz	-58.41	-56.65	-55.60	-57.40	-51.06	-4.54
	30 MHz to 1 GHz	-53.21	-51.92	-53.87	-53.81	-31.06	-20.86
	1GHz to 2.108 GHz	-50.65	-49.22	-49.25	-49.93	-31.06	-18.16
	2.108 GHz to 2.109 GHz	-43.73	-43.31	-42.71	-42.97	-41.06	-1.65
55	2.181 GHz to 3 GHz	-44.08	-44.03	-43.72	-43.77	-41.06	-2.66
	3 GHz to 6.2 GHz	-37.36	-39.99	-37.51	-36.99	-31.06	-5.93
	6.2 GHz to 18 GHz	-47.56	-48.09	-47.77	-48.09	-31.06	-16.50
	18 GHz to 22 GHz	-47.12	-46.56	-46.49	-46.18	-31.06	-15.12
	9 kHz to 150 kHz	-70.66	-70.92	-68.78	-69.96	-61.06	-7.72
	150 kHz to 30 MHz	-58.41	-56.65	-55.60	-57.40	-51.06	-4.54
	30 MHz to 1 GHz	-53.21	-51.92	-53.87	-53.81	-31.06	-20.86
	1GHz to 2.108 GHz	-50.65	-49.22	-49.25	-49.93	-31.06	-18.16
56	2.108 GHz to 2.109 GHz	-43.73	-43.31	-42.71	-42.97	-41.06	-1.65
	2.181 GHz to 3 GHz	-44.08	-44.03	-43.72	-43.77	-41.06	-2.66
	3 GHz to 6.2 GHz	-37.36	-39.99	-37.51	-36.99	-31.06	-5.93
	6.2 GHz to 18 GHz	-47.56	-48.09	-47.77	-48.09	-31.06	-16.50
	18 GHz to 22 GHz	-47.12	-46.56	-46.49	-46.18	-31.06	-15.12
	9 kHz to 150 kHz	-70.66	-70.92	-68.78	-69.96	-61.06	-7.72
	150 kHz to 30 MHz	-58.41	-56.65	-55.60	-57.40	-51.06	-4.54
	30 MHz to 1 GHz	-53.21	-51.92	-53.87	-53.81	-31.06	-20.86

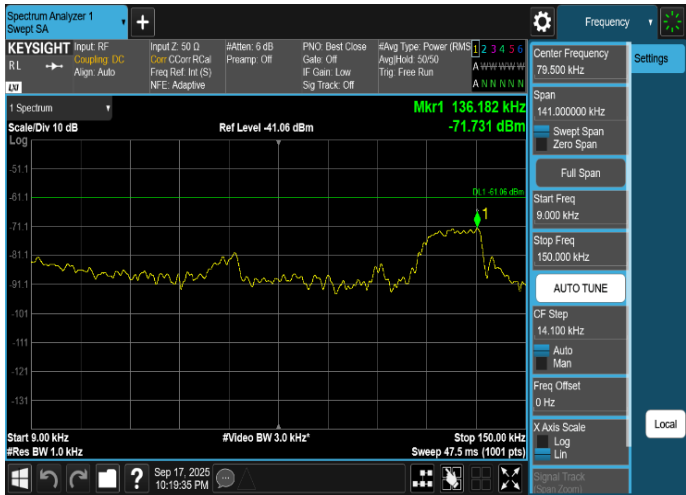
Table 8-14. Conducted Spurious Emission Summary Data (NR_2C_90M+100M)



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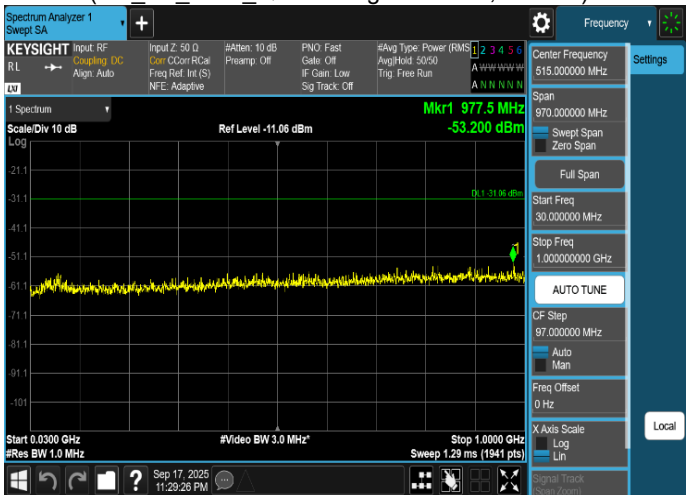
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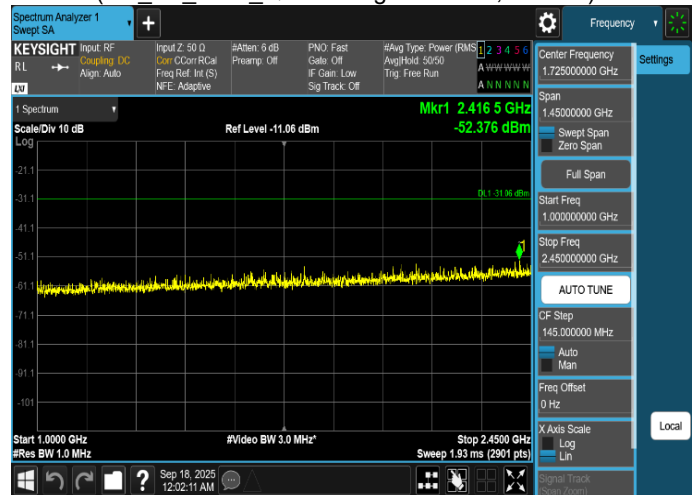
Plot 8-18. Conducted Spurious Emission Plot
9 kHz to 150 kHz
(NR_1C_90M_QPSK - High Channel, Port 57)



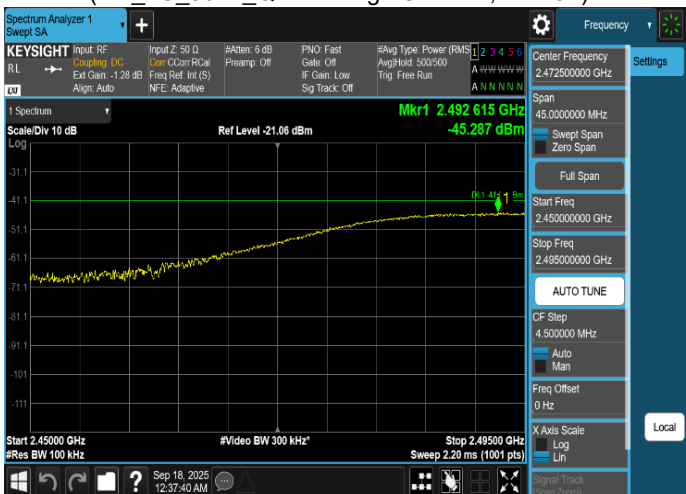
Plot 8-19. Conducted Spurious Emission Plot
150 kHz to 30 MHz
(NR_1C_90M_QPSK - High Channel, Port 57)



Plot 8-20. Conducted Spurious Emission Plot
30 MHz to 1 GHz
(NR_1C_90M_QPSK - High Channel, Port 57)



Plot 8-21. Conducted Spurious Emission Plot
1 GHz to 2.450 GHz
(NR_1C_90M_QPSK - High Channel, Port 57)



Plot 8-22. Conducted Spurious Emission Plot
2.450 GHz to 2.495 GHz
(NR_1C_90M_QPSK - High Channel, Port 57)



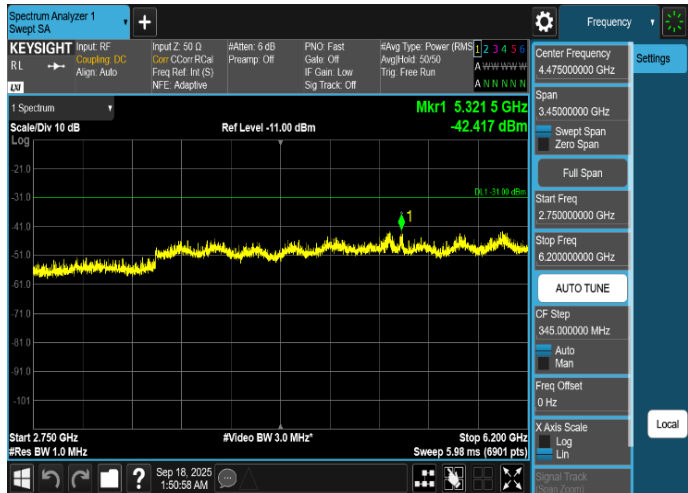
Plot 8-23. Conducted Spurious Emission Plot
2.691 GHz to 2.750 GHz
(NR_1C_90M_QPSK - High Channel, Port 57)



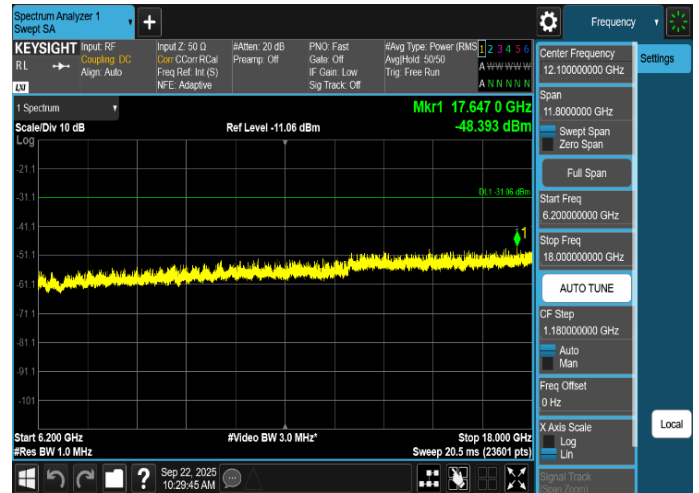
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Plot 8-24. Conducted Spurious Emission Plot
2.750 GHz to 6.2 GHz
(NR_1C_90M_QPSK - High Channel, Port 57)



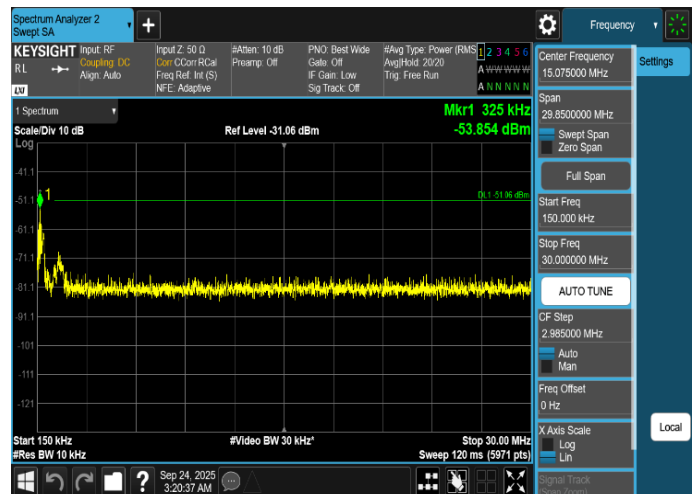
Plot 8-25. Conducted Spurious Emission Plot
6.2 GHz to 18 GHz
(NR_1C_90M_QPSK - High Channel, Port 57)



Plot 8-26. Conducted Spurious Emission Plot
18 GHz to 28 GHz
(NR_1C_90M_QPSK - High Channel, Port 57)



Plot 8-27. Conducted Spurious Emission Plot
9 kHz to 150 kHz
(NR_1C_100M_64QAM - Low Channel, Port 54)



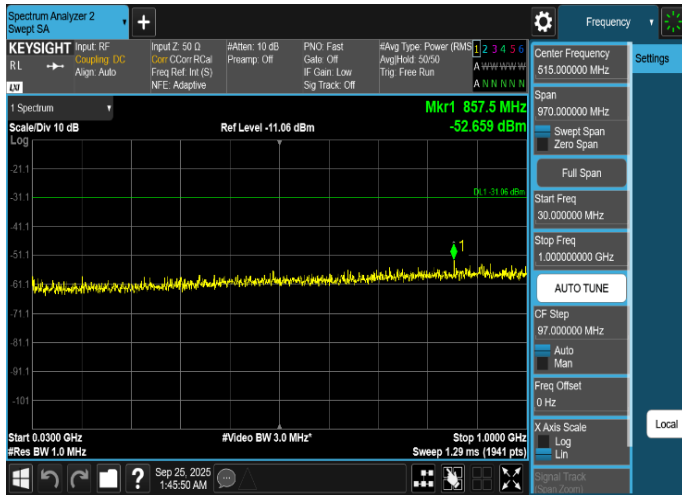
Plot 8-28. Conducted Spurious Emission Plot
150 kHz to 30 MHz
(NR_1C_100M_64QAM - Low Channel, Port 54)



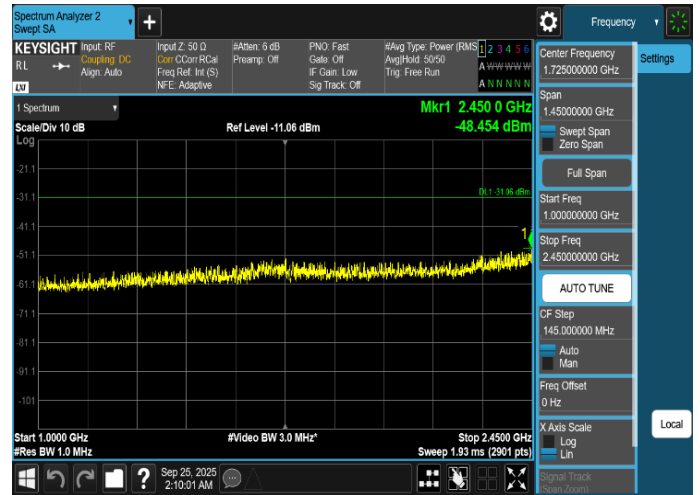
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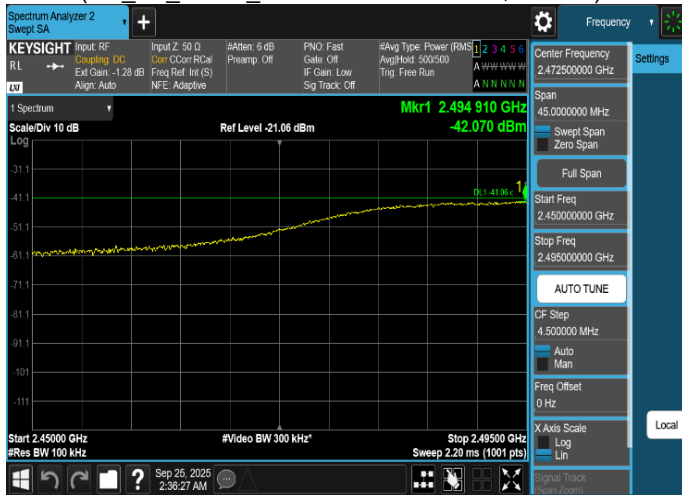
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Plot 8-29. Conducted Spurious Emission Plot
30 MHz to 1 GHz
(NR_1C_100M_64QAM - Low Channel, Port 54)



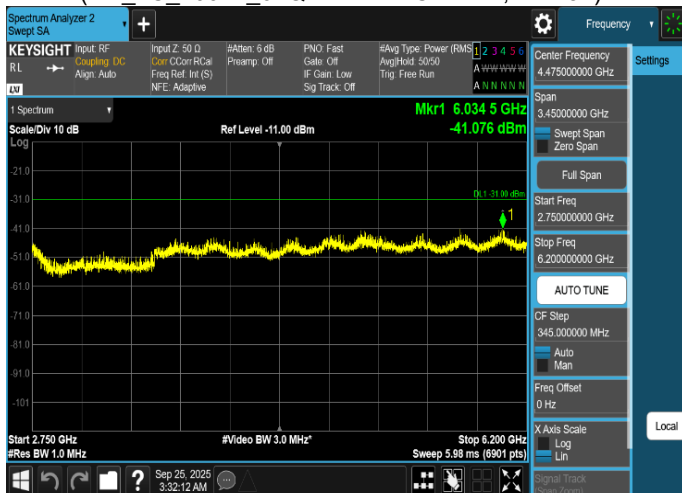
Plot 8-30. Conducted Spurious Emission Plot
1 GHz to 2.450 GHz
(NR_1C_100M_64QAM - Low Channel, Port 54)



Plot 8-31. Conducted Spurious Emission Plot
2.450 MHz to 2.495 GHz
(NR_1C_100M_64QAM - Low Channel, Port 54)



Plot 8-32. Conducted Spurious Emission Plot
2.691 GHz to 2.750 GHz
(NR_1C_100M_64QAM - Low Channel, Port 54)



Plot 8-33. Conducted Spurious Emission Plot
2.750 GHz to 6.2 GHz
(NR_1C_100M_64QAM - Low Channel, Port 54)



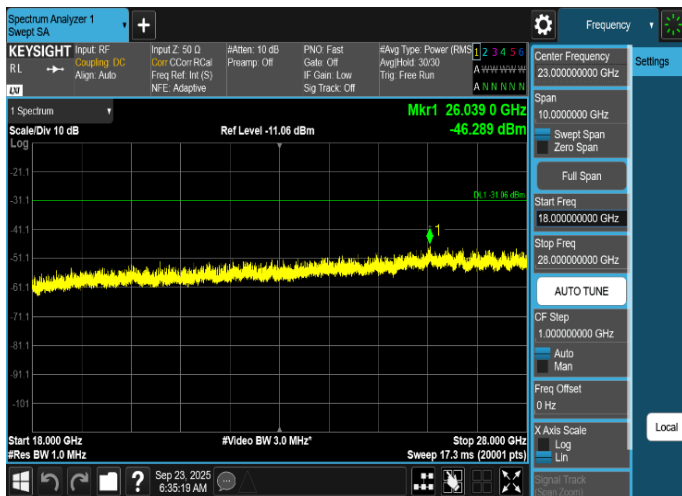
Plot 8-34. Conducted Spurious Emission Plot
6.2 GHz to 18 GHz
(NR_1C_100M_64QAM - Low Channel, Port 54)



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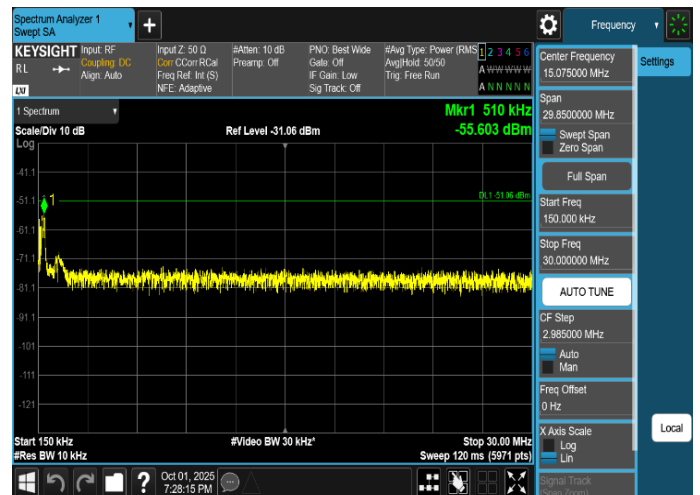
Plot 8-35. Conducted Spurious Emission Plot
18 GHz to 28 GHz

(NR_1C_100M_64QAM - Low Channel, Port 54)



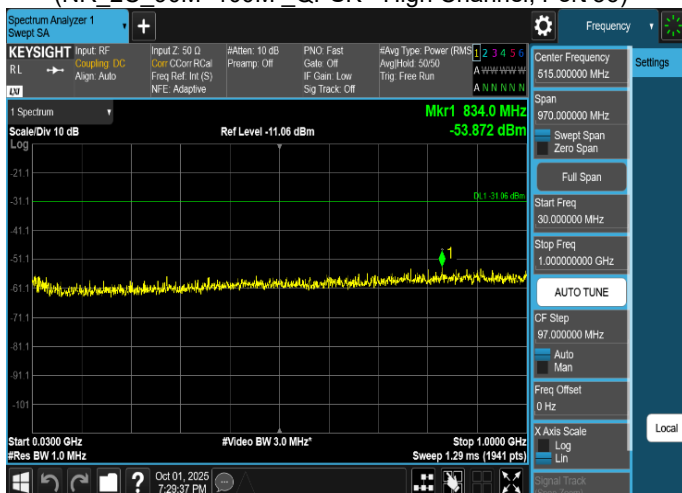
Plot 8-36. Conducted Spurious Emission Plot
9 kHz to 150 kHz

(NR_2C_90M+100M_QPSK - High Channel, Port 56)



Plot 8-37. Conducted Spurious Emission Plot
150 kHz to 30 MHz

(NR_2C_90M+100M_QPSK - High Channel, Port 56)



Plot 8-38. Conducted Spurious Emission Plot
30 MHz to 1 GHz

(NR_2C_90M+100M_QPSK - High Channel, Port 56)



Plot 8-39. Conducted Spurious Emission Plot
1 GHz to 2.450 GHz

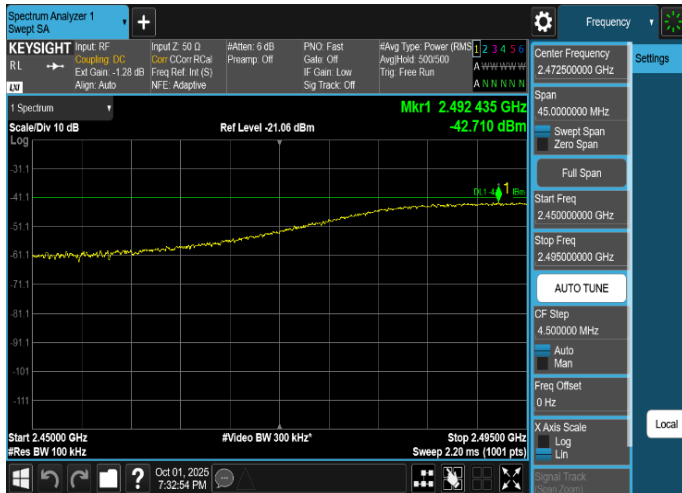
(NR_2C_90M+100M_QPSK - High Channel, Port 56)



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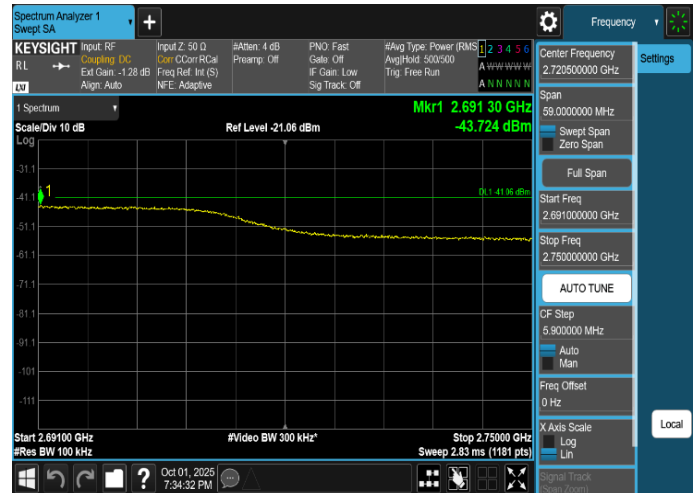
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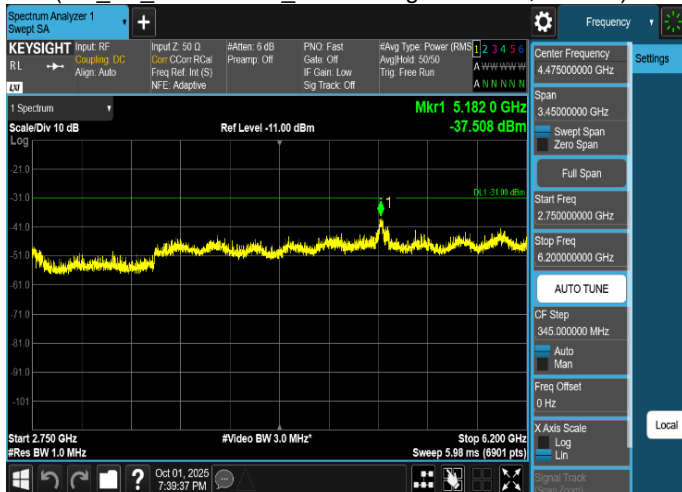
Plot 8-40. Conducted Spurious Emission Plot
2.450 MHz to 2.495 GHz

(NR_2C_90M+100M_QPSK - High Channel, Port 56)



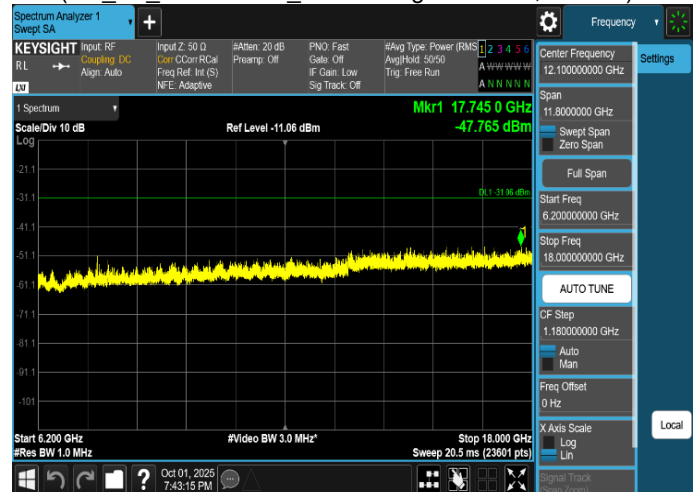
Plot 8-41. Conducted Spurious Emission Plot
2.691 GHz to 2.750 GHz

(NR_2C_90M+100M_QPSK - High Channel, Port 56)



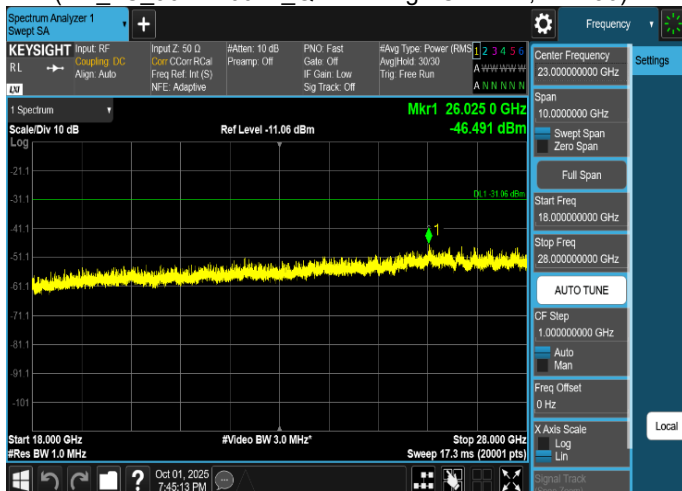
Plot 8-42. Conducted Spurious Emission Plot
2.750 GHz to 6.2 GHz

(NR_2C_90M+100M_QPSK - High Channel, Port 56)



Plot 8-43. Conducted Spurious Emission Plot
6.2 GHz to 18 GHz

(NR_2C_90M+100M_QPSK - High Channel, Port 56)



Plot 8-44. Conducted Spurious Emission Plot
18 GHz to 28 GHz

(NR_2C_90M+100M_QPSK - High Channel, Port 56)

8.6 Frequency Stability

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of KDB 971168 D01 v03r01. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for DC powered equipment.

Test Description

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.

Frequency measurements are made -30°C to +50°C in 10°C increments. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Limit

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber.

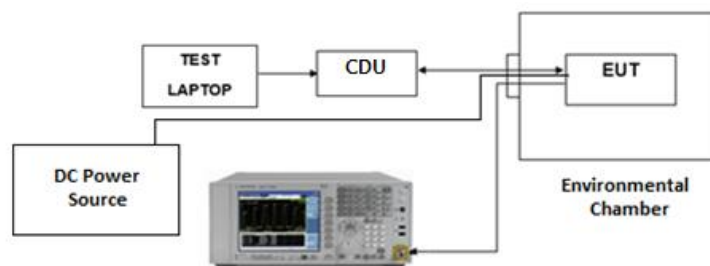


Figure 8-5. Test Instrument & Measurement Setup

Test Notes

None.



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OPERATING FREQUENCY: 2592999000 Hz
REFERENCE VOLTAGE: 48.00 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	52.0	- 30	2,592,999,000	-0.15	0.0000000
100 %		- 20	2,592,998,998	-1.87	-0.0000001
100 %		- 10	2,592,999,001	0.84	0.0000000
100 %		0	2,592,999,001	1.21	0.0000000
100 %		+ 10	2,592,999,000	0.30	0.0000000
100 %		+ 20(Ref)	2,592,999,000	0.00	0.0000000
100 %		+ 30	2,592,998,999	-0.53	0.0000000
100 %		+ 40	2,592,999,003	3.55	0.0000001
100 %		+ 50	2,592,999,003	2.80	0.0000001
85 %	44.2	+ 20	2,592,999,001	0.79	0.0000000
111.5 %	58.0	+ 20	2,592,999,004	3.70	0.0000001

Table 8-15. Frequency Stability Summary Data (NR_1C_90M)

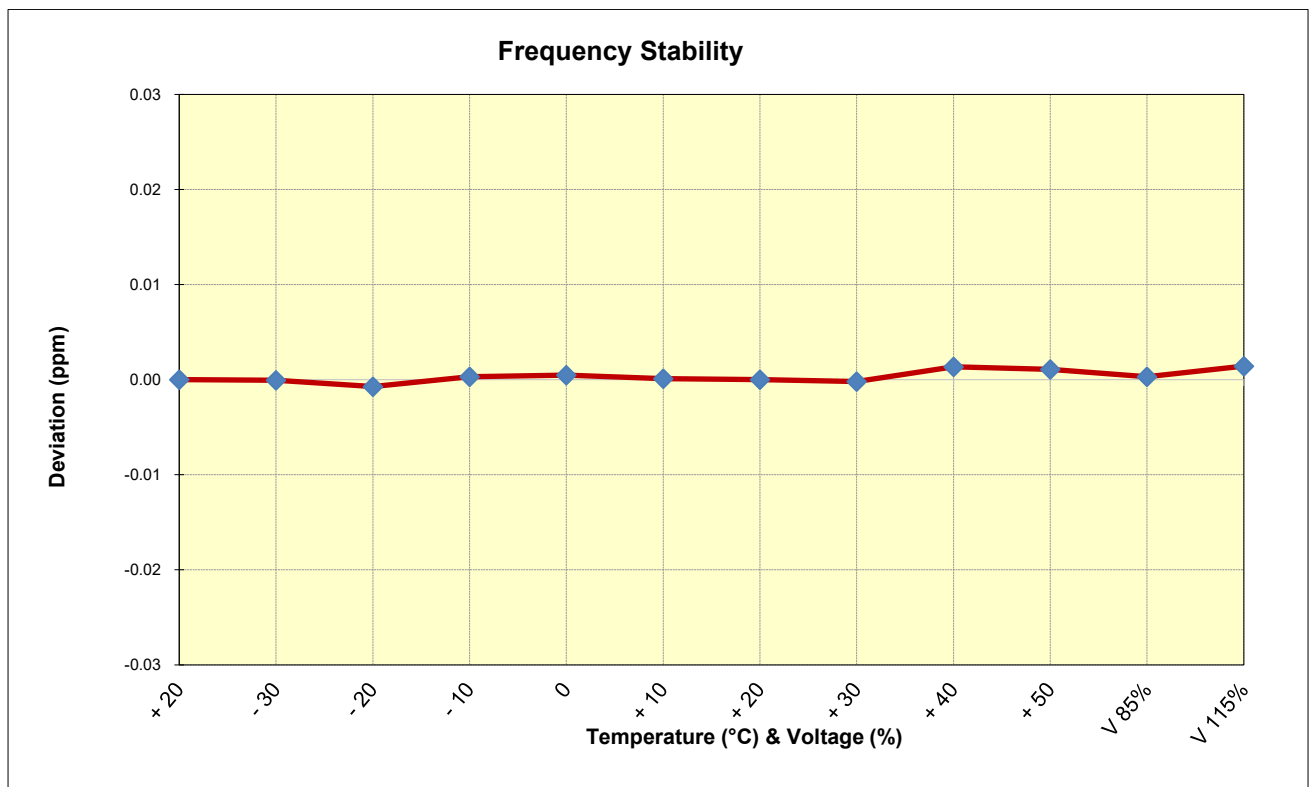


Figure 8-6. Frequency Stability Graph (NR_1C_90M)

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8.7 Radiated spurious emission

Test Overview

Radiated spurious emissions measurements are performed using the field strength method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically and horizontally polarized broadband tri-log antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas.

Test Procedure Used

ANSI C63.26 - Section 5.5.3.2

Test Setting

1. Start frequency was set to 30 MHz and stop frequency was set to at least 10 * the fundamental frequency
2. RBW = 1 MHz
3. VBW $\geq 3 \times$ RBW
4. No. of sweep points $\geq 2 \times$ span / RBW
5. Detector = RMS
6. Trace mode = Max Hold (In cases where the level is within 2 dB of the limit, the final measurement is taken using triggering/gating and trace averaging.)
7. The trace was allowed to stabilize.

Limit

§ 27.53(m)(2)

For digital base stations, the attenuation shall be not less than $43 + 10 \log (P)$ dB, unless a documented interference complaint is received from an adjacent channel licensee with an overlapping Geographic Service Area.

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

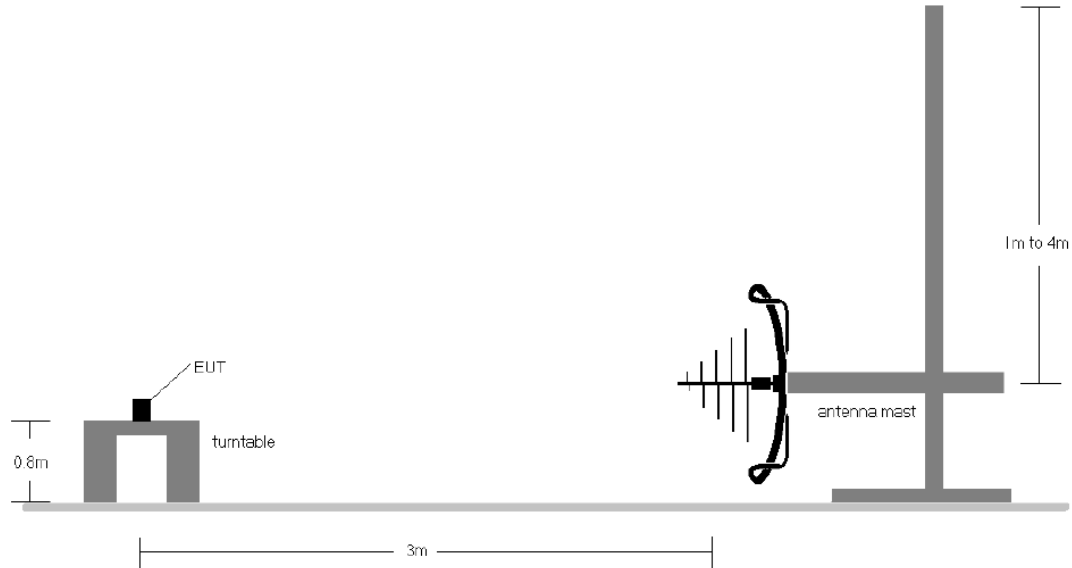


Figure 8-7. Test Instrument & Measurement Setup < 1 GHz

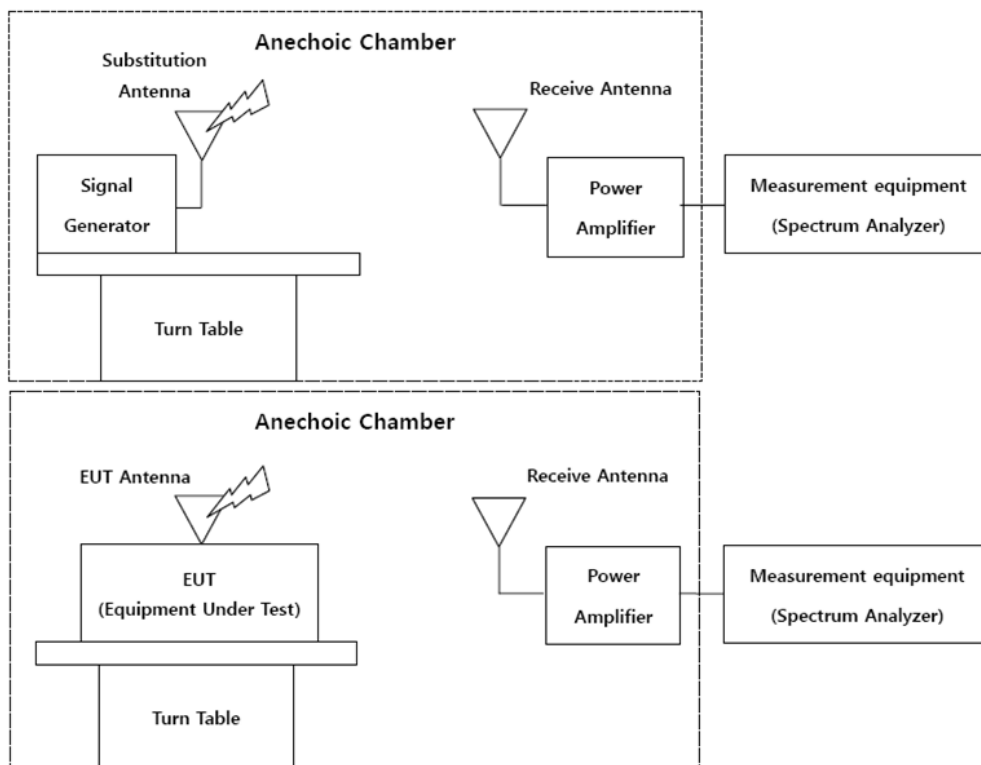


Figure 8-8. Test Instrument & Measurement Setup > 1 GHz

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Test Notes

1. The below 1GHz average EIRP reported below is calculated per 5.2.7 of ANSI C63.26-2015 which states:

The measured E-field in V/m is converted to e.i.r.p in dBm.

Effective Isotropic Radiated Power Sample Calculation

$$\begin{aligned}\text{Field Strength [dB}\mu\text{V/m]} &= \text{Measured Value [dB}\mu\text{V/m]} + \text{AFCL [dB/m]} \\ &= 42.7 \text{ [dB}\mu\text{V/m]} - 11.1 \text{ [dB/m]} = 31.6 \text{ dB}\mu\text{V/m}\end{aligned}$$

$$\begin{aligned}\text{e.i.r.p. [dBm]} &= E[\text{dB } \mu\text{V/m}] + 20 \log_{10}(d[\text{m}]) - 104.8 \\ &= 31.6 \text{ dB}[\mu\text{V/m}] + (20 * \log(3)) - 104.8 \\ &= -63.66 \text{ dBm}\end{aligned}$$

2. The above 1GHz average EIRP reported below is calculated per 5.5.3 of ANSI C63.26-2015 which states:

Effective Isotropic Radiated Power Sample Calculation**Substitution measurement**

$$\begin{aligned}\text{e.i.r.p. [dBm]} &= \text{EUT}_{\text{Prec}} [\text{dBm EIRP}] + P_L [\text{dB}] \\ &= -63.2 \text{ dBm} + 32.3 \\ &= -30.9 \text{ dBm}\end{aligned}$$

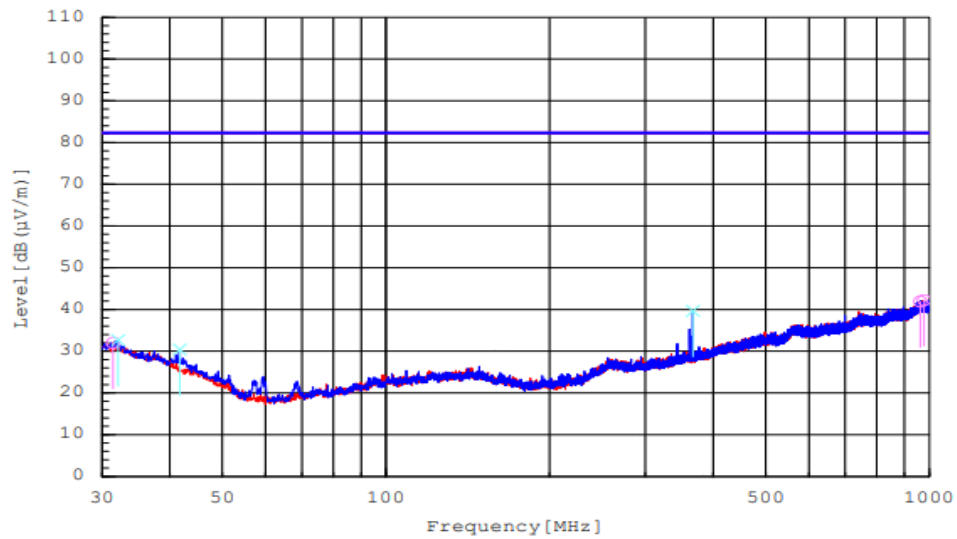
3. The EUT was tested in both horizontal and vertical antenna polarizations and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, channel bandwidth configurations shown in the tables below.
4. The spectrum is measured from 30 MHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
5. All emissions were measured at a 3-meter test distance.
6. Spurious emissions were measured with all EUT antennas transmitting simultaneously and all antenna ports terminated.
7. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
8. All modes of operation were investigated and the worst case configuration results are reported in this section.



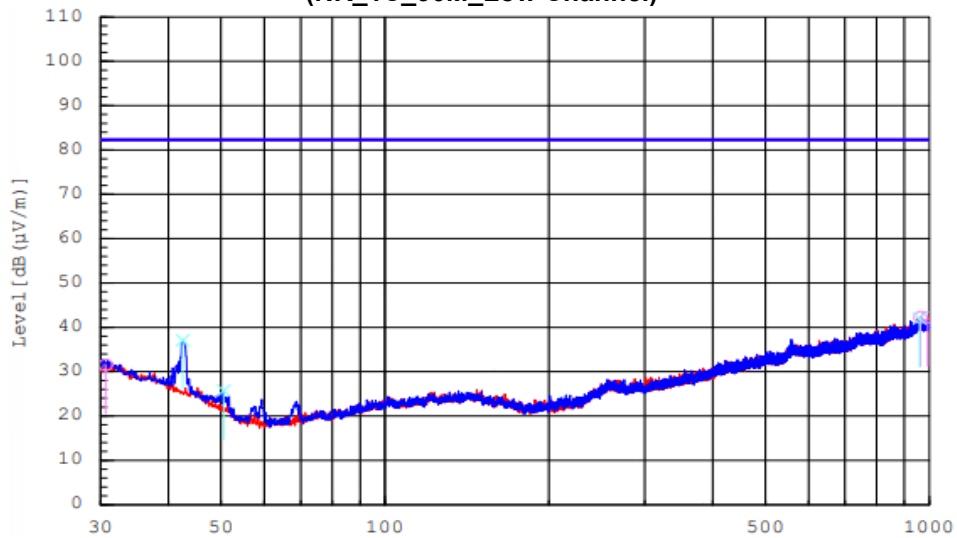
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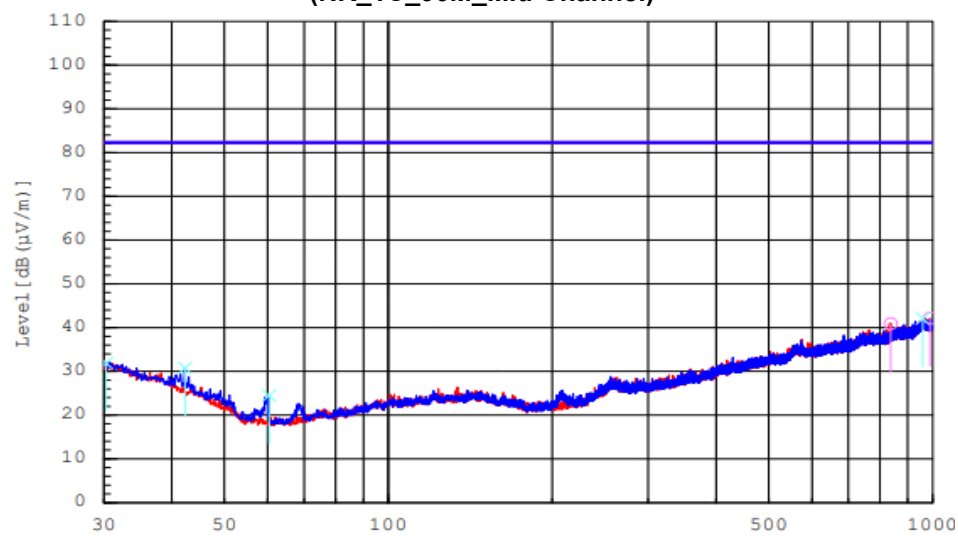
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**Plot 8-45. Radiated spurious emission Plot_30 MHz to 1000 MHz
(NR_1C_90M_Low Channel)**



**Plot 8-46. Radiated spurious emission Plot_30 MHz to 1000 MHz
(NR_1C_90M_Mid Channel)**



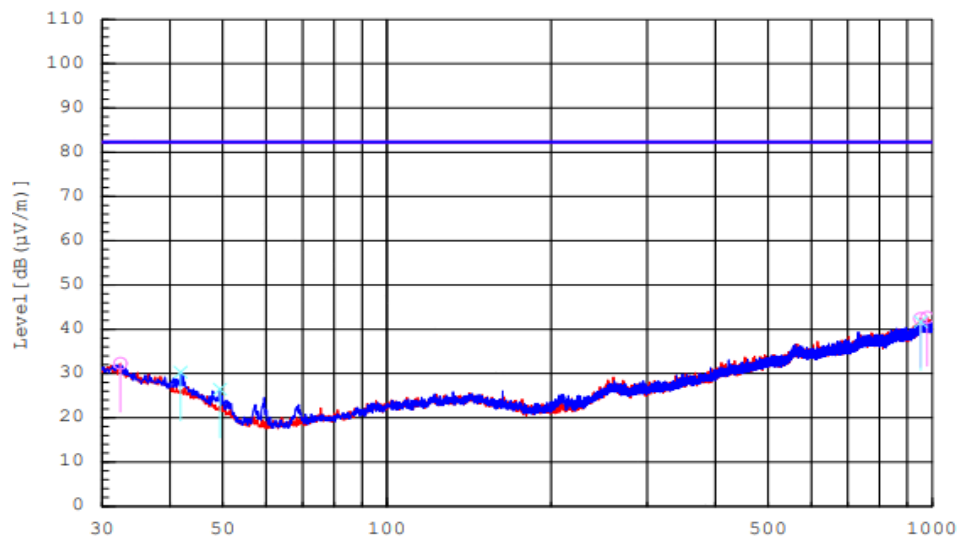
**Plot 8-47. Radiated spurious emission Plot_30 MHz to 1000 MHz
(NR_1C_90M_High Channel)**



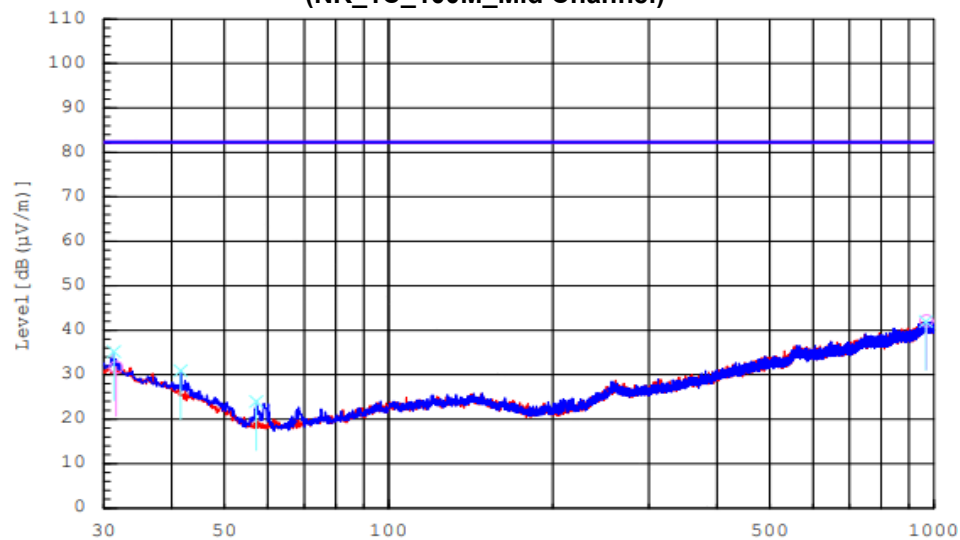
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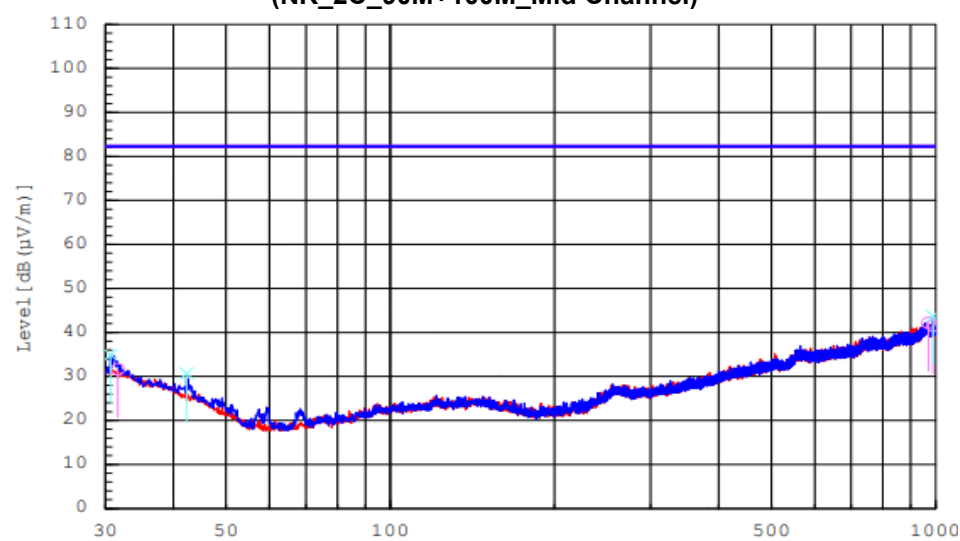
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Plot 8-48. Radiated spurious emission Plot_30 MHz to 1000 MHz
(NR_1C_100M_Mid Channel)



Plot 8-49. Radiated spurious emission Plot_30 MHz to 1000 MHz
(NR_2C_90M+100M_Mid Channel)



Plot 8-50. Radiated spurious emission Plot_30 MHz to 1000 MHz
(NR_2C_90M+100M_Non-Continuous)



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Mod	Frequency [MHz]	Ant. Pol. [H/V]	Analyzer Level [dBμV/m]	AFCL [dB]	Field Strength [dBμV/m]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]	Antenna Heigh [cm]	Turntable azimuth [degree]
NR_1C_90M	34.52	H	35.9	-7.2	28.7	-66.56	-13.0	-53.56	194.5	42.7
	42.74	V	42.7	-11.1	31.6	-63.66	-13.0	-50.66	387.0	3.7
NR_1C_100M	All detected emissions are compliant with attenuated more than 20 dB below limit.									
NR_2C_90M+ 100M										
NR_2NC_90M +100M										

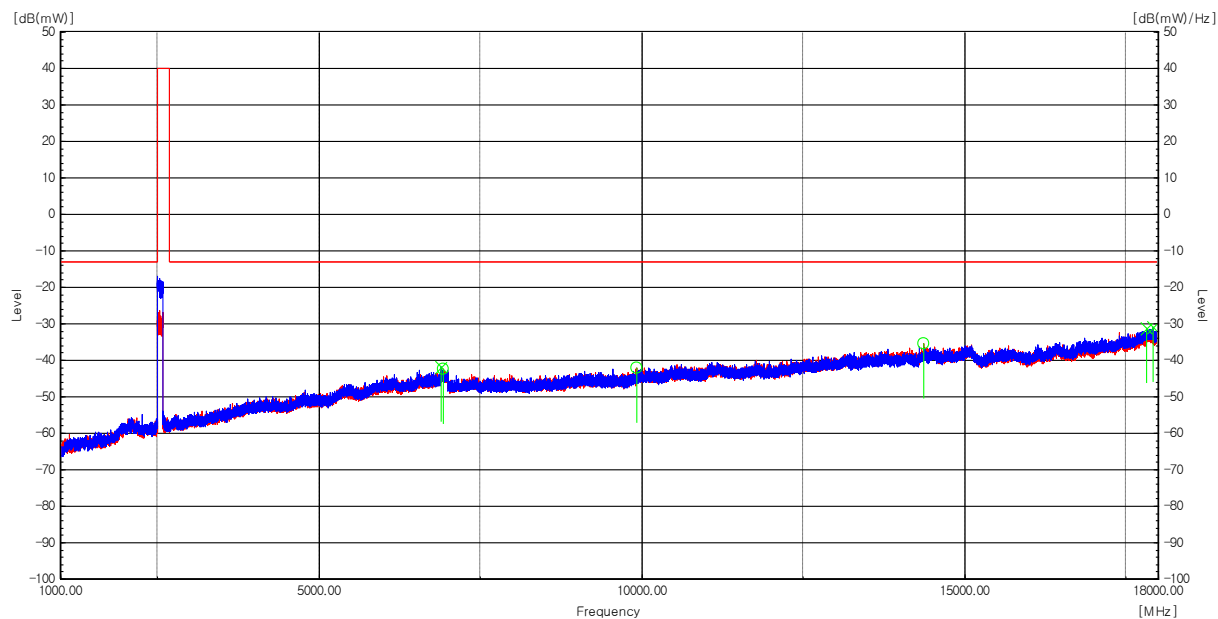
Table 8-16. Radiated spurious emission below 1GHz Worst mode Summary Data



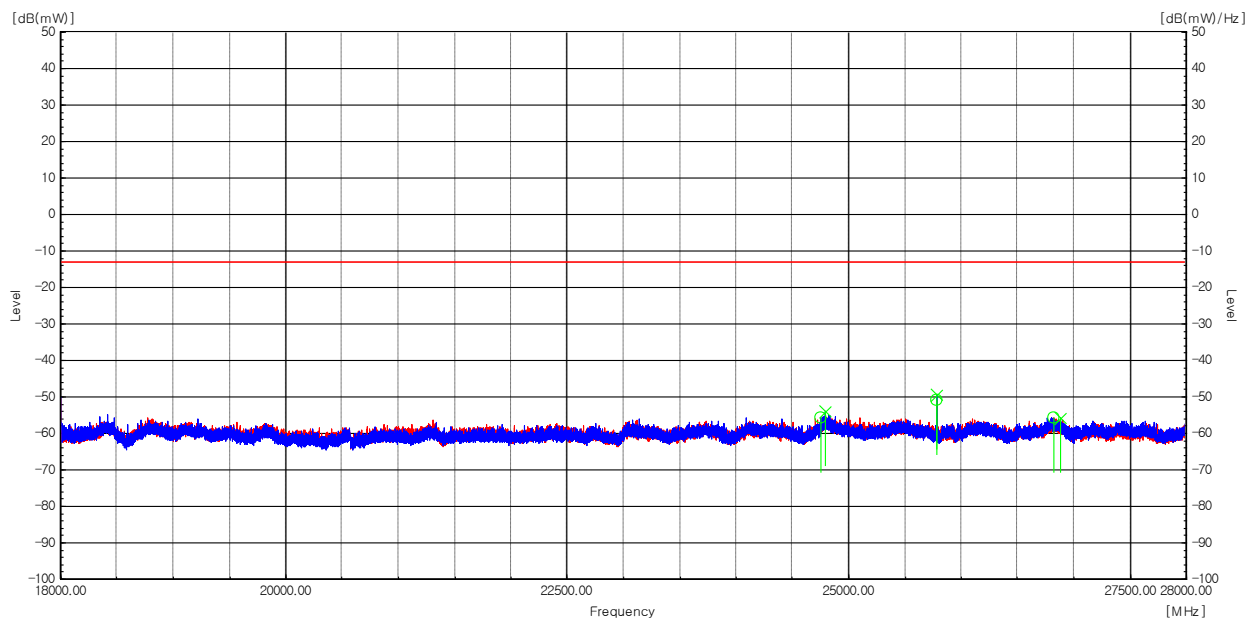
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**Plot 8-51. Radiated spurious emission Plot_1 GHz to 18 GHz
(NR_1C_90M_Low Channel)**



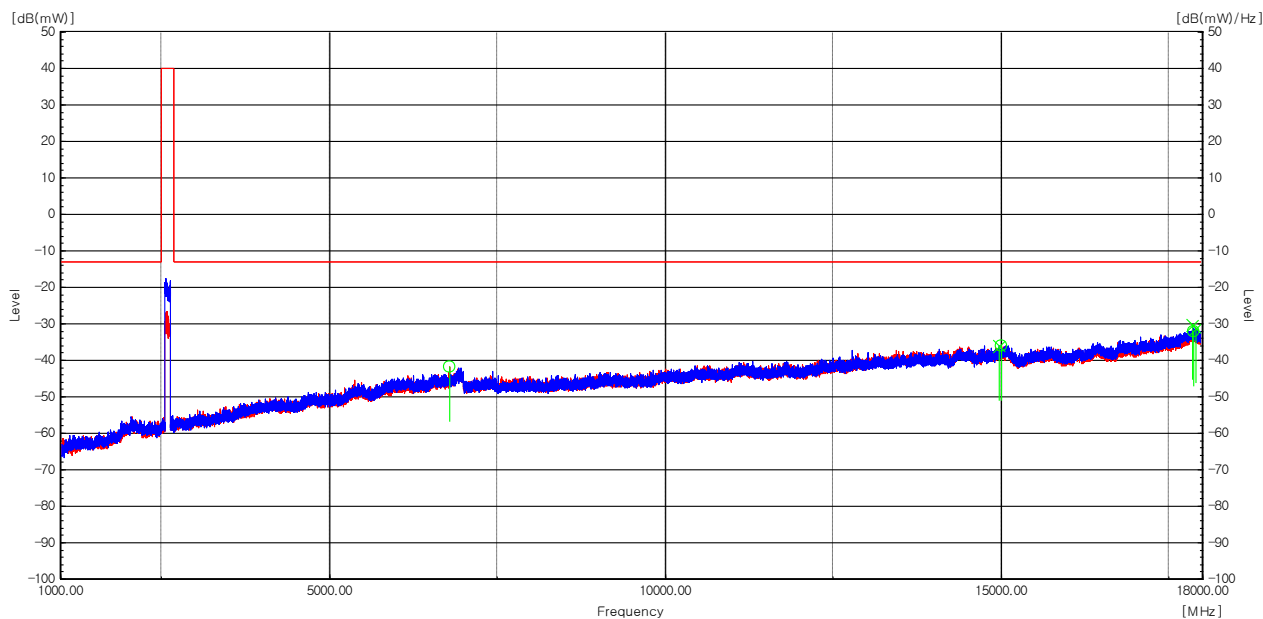
**Plot 8-52. Radiated spurious emission Plot_18 GHz to 28 GHz
(NR_1C_90M_Low Channel)**



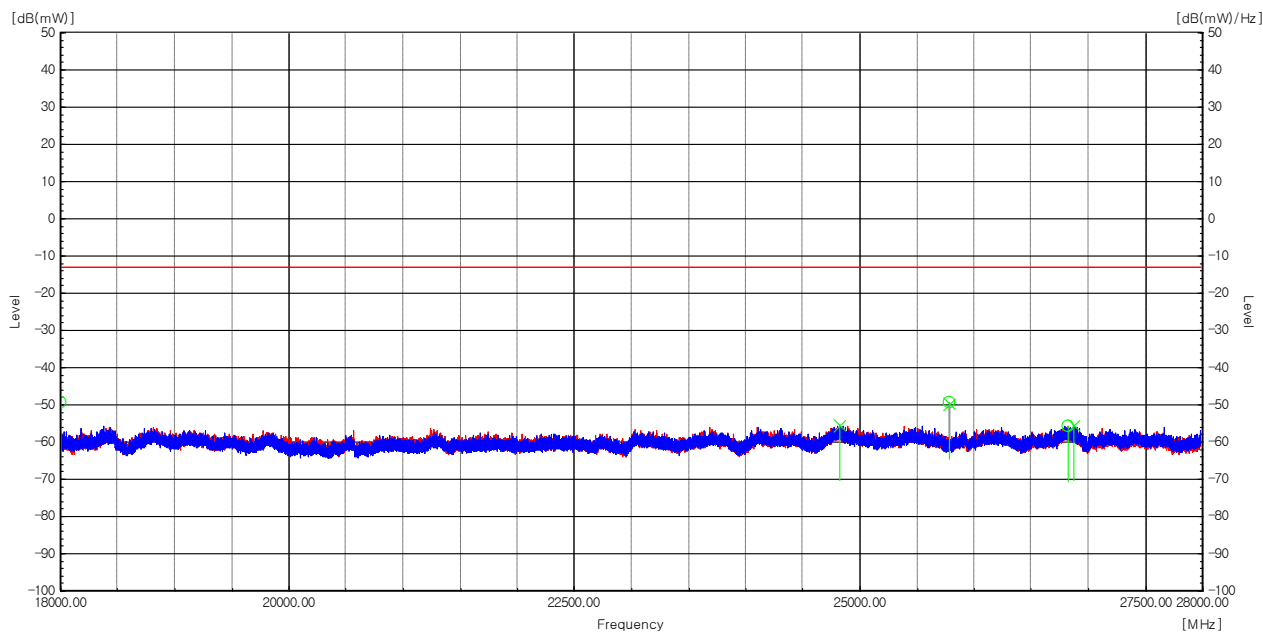
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**Plot 8-53. Radiated spurious emission Plot_1 GHz to 18 GHz
(NR_1C_90M_Mid Channel)**



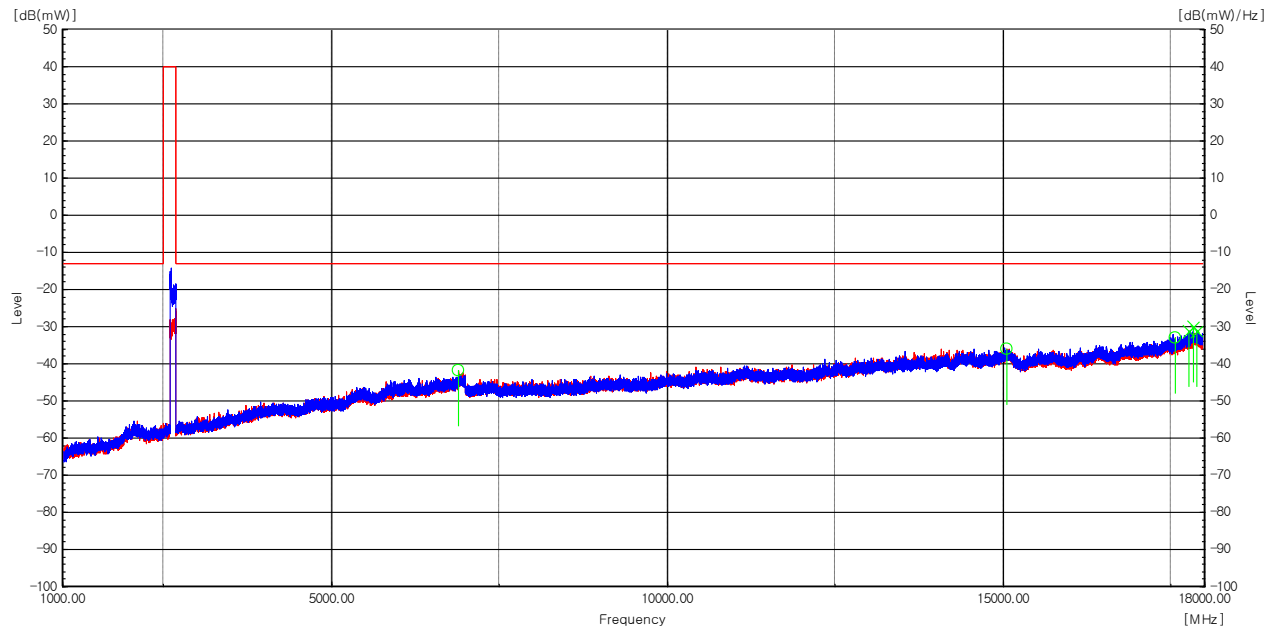
**Plot 8-54. Radiated spurious emission Plot_18 GHz to 28 GHz
(NR_1C_90M_Mid Channel)**



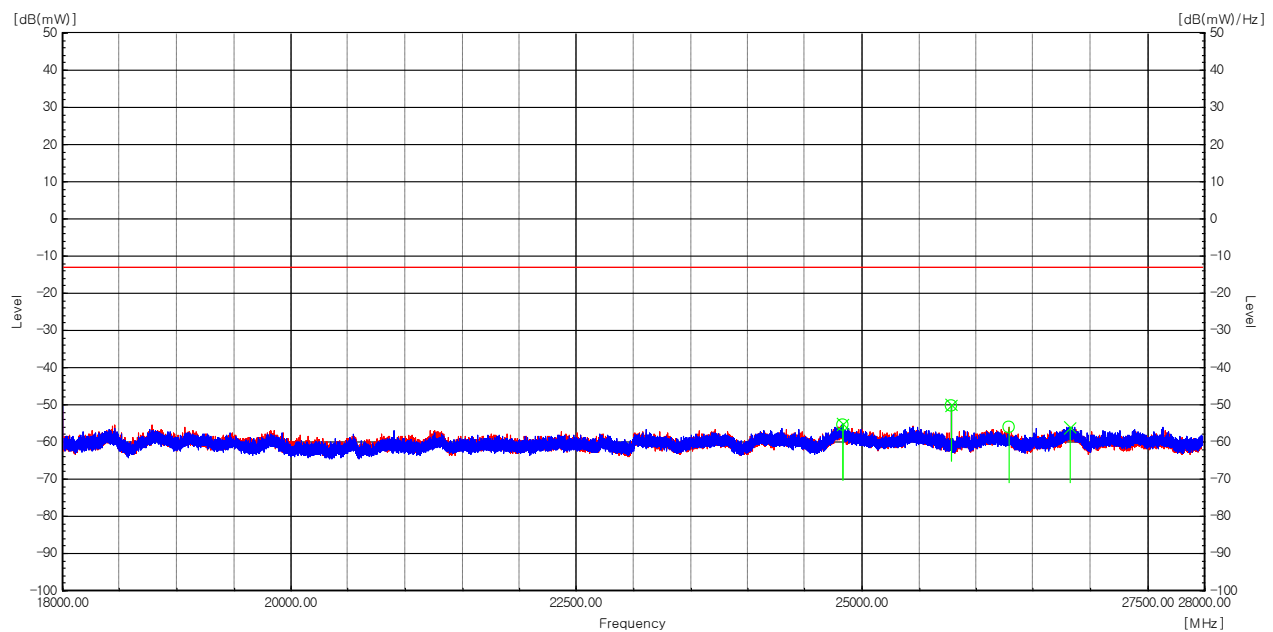
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**Plot 8-55. Radiated spurious emission Plot_1 GHz to 18 GHz
(NR_1C_90M_High Channel)**



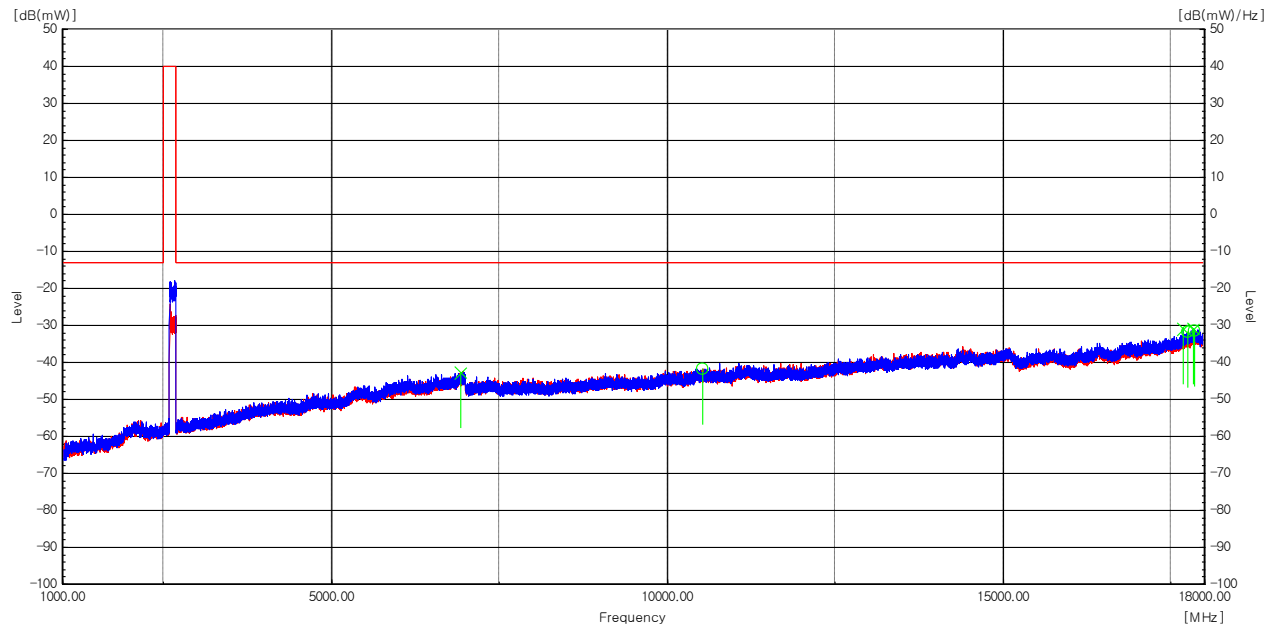
**Plot 8-56. Radiated spurious emission Plot_18 GHz to 28 GHz
(NR_1C_90M_High Channel)**



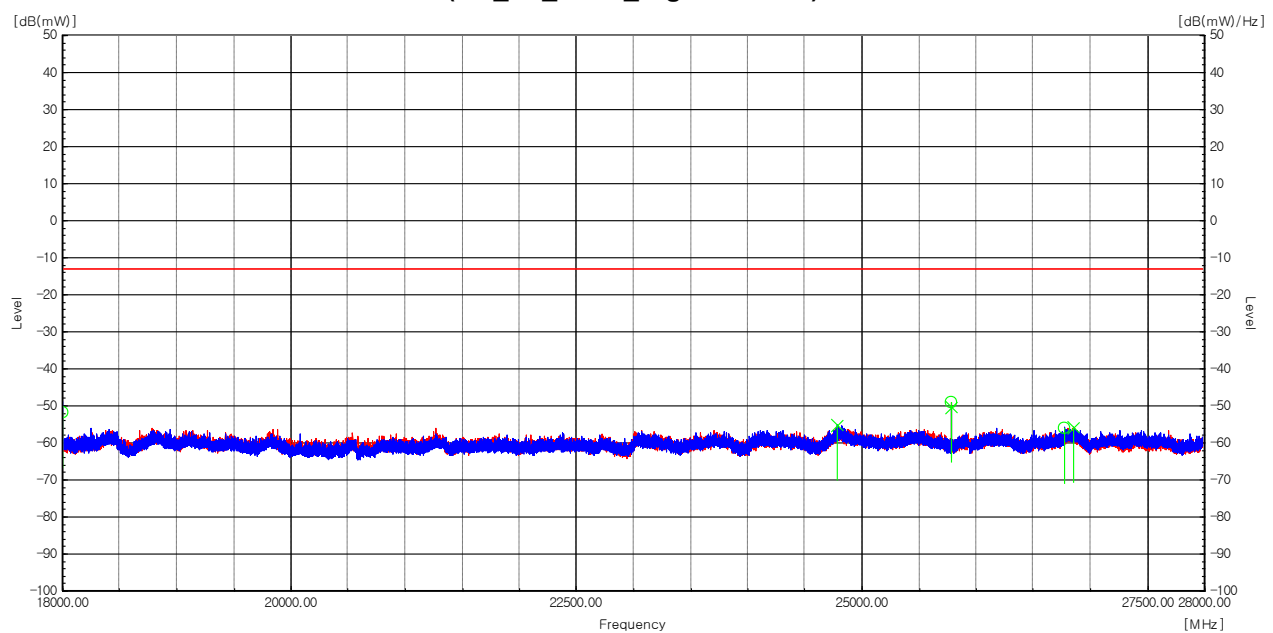
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**Plot 8-57. Radiated spurious emission Plot_1 GHz to 18 GHz
(NR_1C_100M_High Channel)**



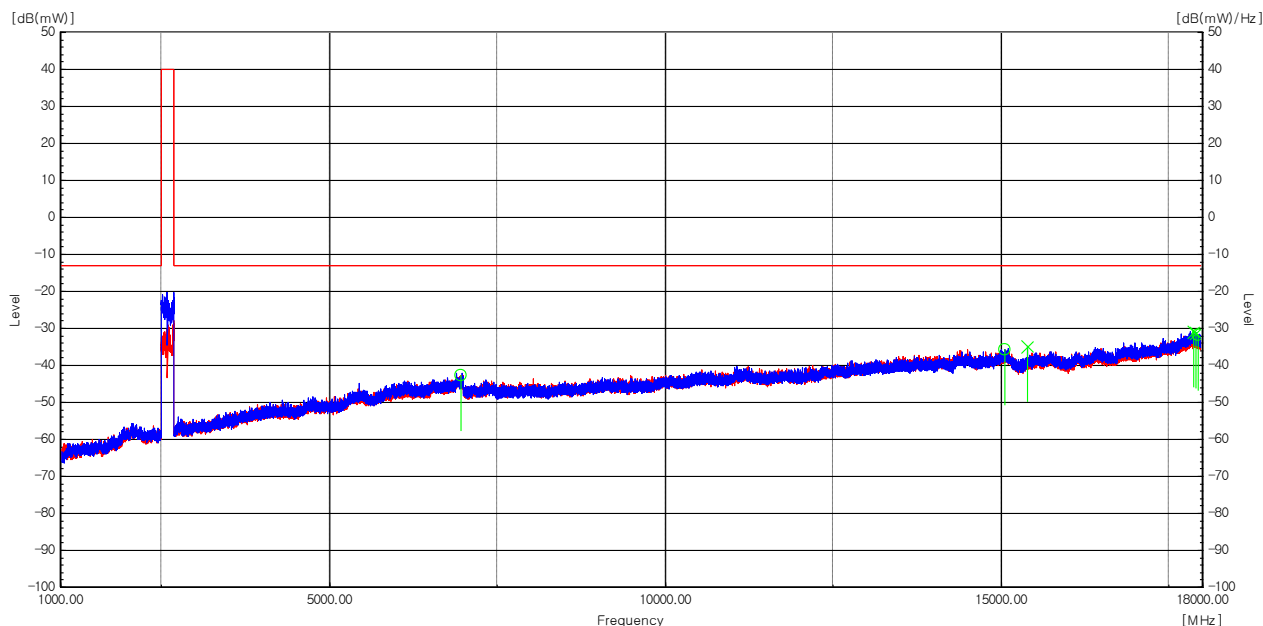
**Plot 8-58. Radiated spurious emission Plot_18 GHz to 28 GHz
(NR_1C_100M_High Channel)**



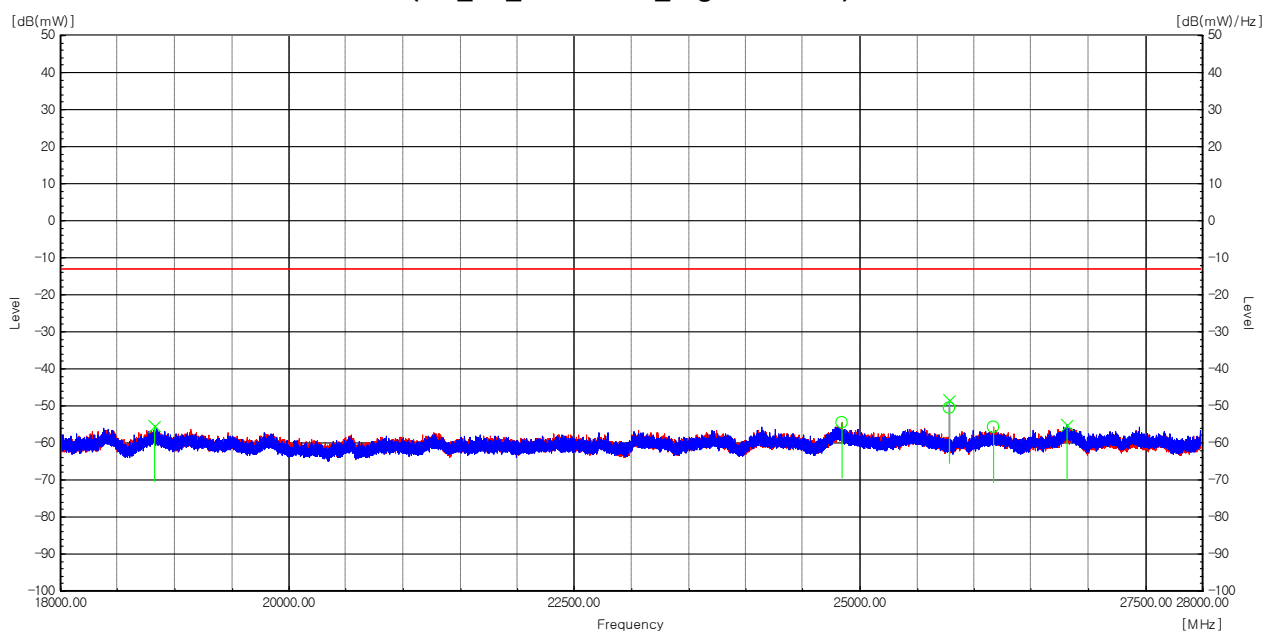
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**Plot 8-59. Radiated spurious emission Plot_1 GHz to 18 GHz
(NR_2C_90M+100M_High Channel)**



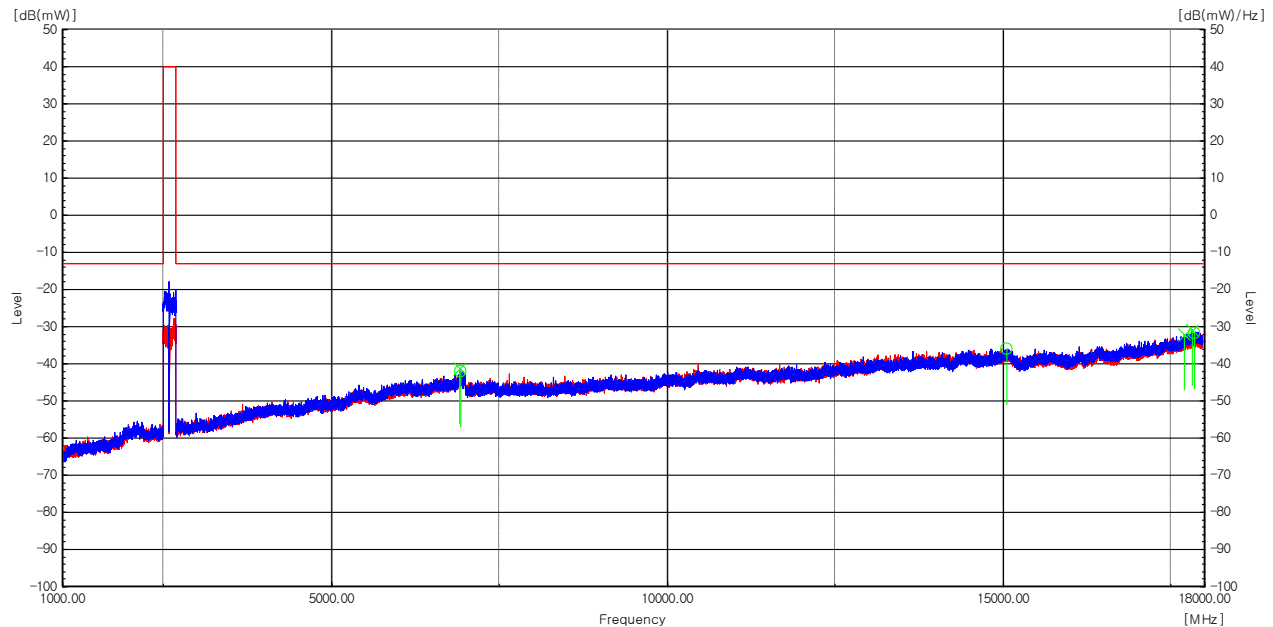
**Plot 8-60. Radiated spurious emission Plot_18 GHz to 28 GHz
(NR_2C_90M+100M_High Channel)**



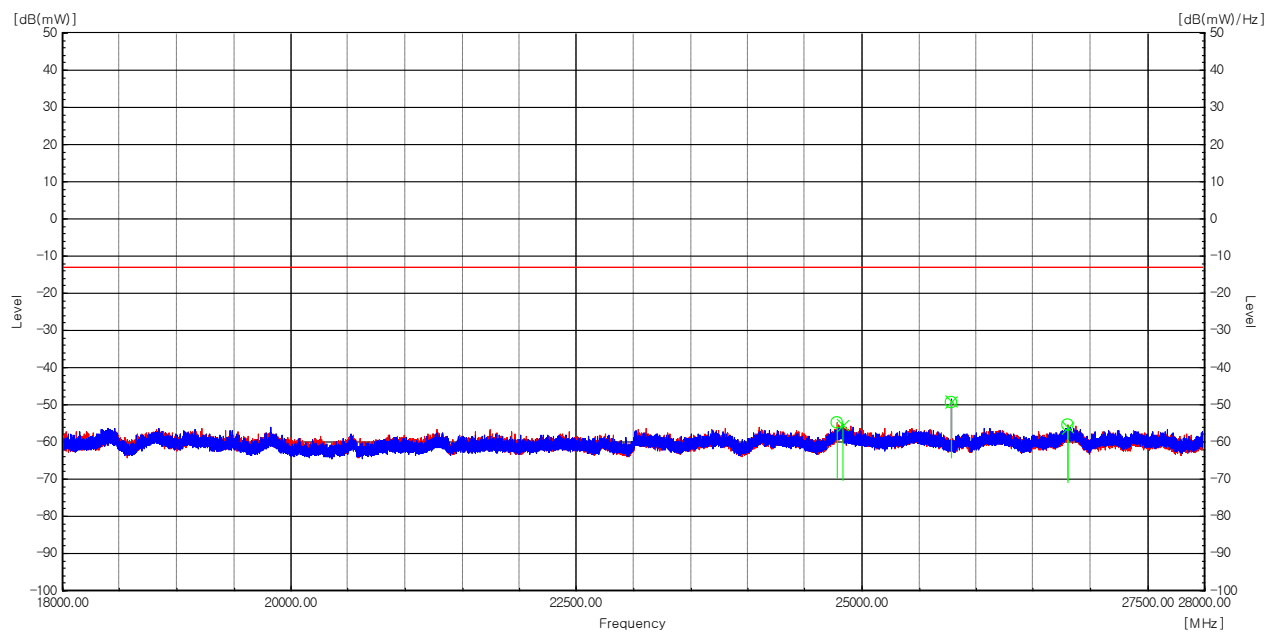
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**Plot 8-61. Radiated spurious emission Plot_1 GHz to 18 GHz
(NR_2NC_90M+100M)**



**Plot 8-62. Radiated spurious emission Plot_18 GHz to 28 GHz
(NR_2NC_90M+100M)**



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Worst Mode	Frequency [MHz]	Ant. Pol. [H/V]	Analyzer Level [dBm]	Path loss [dB]	RSE EIRP [dBm]	Limit [dBm/MHz]	Margin [dB]	Turntable azimuth [degree]
NR_2NC_90 M+100M	6915.433	V	-62.0	20.8	-41.2	-13.0	28.2	328.9
	6918.266	H	-62.8	20.8	-42.0	-13.0	29.0	287.1
	17818.664	V	-63.2	32.3	-30.9	-13.0	17.9	281.6
	17840.198	H	-63.4	31.7	-31.7	-13.0	18.7	351.6
	25781.33	H	-42.5	-6.9	-49.4	-13.0	36.4	279.7
	25781.33	V	-41.9	-7.1	-49.0	-13.0	36.0	262.4

Table 8-17. Radiated spurious emission above 1GHz Worst mode Summary Data

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9.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung MMU (MT6428) FCC ID: A3LMT6428-41A** complies with all of the requirements of Part 27 of the FCC Rules.

-END-