

n41	50	30	2592.99	DFT	QPSK	Edge_1RB_Right	21.73	21.73
n41	50	30	2592.99	DFT	QPSK	Outer_Full	22.06	22.06
n41	50	30	2592.99	DFT	16QAM	Inner_Full	22.12	22.12
n41	50	30	2592.99	DFT	16QAM	Edge_1RB_Left	21.44	21.44
n41	50	30	2592.99	DFT	16QAM	Edge_1RB_Right	21.39	21.39
n41	50	30	2592.99	DFT	16QAM	Outer_Full	21.50	21.50
n41	50	30	2592.99	DFT	64QAM	Inner_Full	21.62	21.62
n41	50	30	2592.99	DFT	64QAM	Edge_1RB_Left	20.93	20.93
n41	50	30	2592.99	DFT	64QAM	Edge_1RB_Right	20.37	20.37
n41	50	30	2592.99	DFT	64QAM	Outer_Full	21.25	21.25
n41	50	30	2592.99	DFT	256QAM	Inner_Full	20.67	20.67
n41	50	30	2592.99	DFT	256QAM	Edge_1RB_Left	20.26	20.26
n41	50	30	2592.99	DFT	256QAM	Edge_1RB_Right	18.80	18.80
n41	50	30	2592.99	DFT	256QAM	Outer_Full	20.24	20.24
n41	50	30	2592.99	CP	QPSK	Inner_Full	21.94	21.94
n41	50	30	2592.99	CP	QPSK	Edge_1RB_Left	19.46	19.46
n41	50	30	2592.99	CP	QPSK	Edge_1RB_Right	19.45	19.45
n41	50	30	2592.99	CP	QPSK	Outer_Full	19.60	19.60
n41	50	30	2592.99	CP	16QAM	Inner_Full	21.16	21.16
n41	50	30	2592.99	CP	16QAM	Edge_1RB_Left	19.85	19.85
n41	50	30	2592.99	CP	16QAM	Edge_1RB_Right	19.86	19.86
n41	50	30	2592.99	CP	16QAM	Outer_Full	19.50	19.50
n41	50	30	2592.99	CP	64QAM	Inner_Full	20.23	20.23
n41	50	30	2592.99	CP	64QAM	Edge_1RB_Left	19.26	19.26
n41	50	30	2592.99	CP	64QAM	Edge_1RB_Right	19.34	19.34
n41	50	30	2592.99	CP	64QAM	Outer_Full	19.54	19.54
n41	50	30	2592.99	CP	256QAM	Inner_Full	17.93	17.93
n41	50	30	2592.99	CP	256QAM	Edge_1RB_Left	17.74	17.74
n41	50	30	2592.99	CP	256QAM	Edge_1RB_Right	17.71	17.71
n41	50	30	2592.99	CP	256QAM	Outer_Full	17.89	17.89
n41	50	30	2664.99	DFT	$\pi/2$ BPSK	Inner_Full	22.63	22.63
n41	50	30	2664.99	DFT	$\pi/2$ BPSK	Edge_1RB_Left	22.26	22.26
n41	50	30	2664.99	DFT	$\pi/2$ BPSK	Edge_1RB_Right	21.97	21.97
n41	50	30	2664.99	DFT	$\pi/2$ BPSK	Outer_Full	22.25	22.25
n41	50	30	2664.99	DFT	QPSK	Inner_Full	22.67	22.67
n41	50	30	2664.99	DFT	QPSK	Edge_1RB_Left	22.28	22.28
n41	50	30	2664.99	DFT	QPSK	Edge_1RB_Right	21.87	21.87
n41	50	30	2664.99	DFT	QPSK	Outer_Full	22.24	22.24
n41	50	30	2664.99	DFT	16QAM	Inner_Full	22.68	22.68
n41	50	30	2664.99	DFT	16QAM	Edge_1RB_Left	21.95	21.95
n41	50	30	2664.99	DFT	16QAM	Edge_1RB_Right	21.43	21.43

n41	50	30	2664.99	DFT	16QAM	Outer_Full	21.65	21.65
n41	50	30	2664.99	DFT	64QAM	Inner_Full	22.76	22.76
n41	50	30	2664.99	DFT	64QAM	Edge_1RB_Left	21.20	21.20
n41	50	30	2664.99	DFT	64QAM	Edge_1RB_Right	21.25	21.25
n41	50	30	2664.99	DFT	64QAM	Outer_Full	21.65	21.65
n41	50	30	2664.99	DFT	256QAM	Inner_Full	21.21	21.21
n41	50	30	2664.99	DFT	256QAM	Edge_1RB_Left	20.79	20.79
n41	50	30	2664.99	DFT	256QAM	Edge_1RB_Right	19.67	19.67
n41	50	30	2664.99	DFT	256QAM	Outer_Full	21.20	21.20
n41	50	30	2664.99	CP	QPSK	Inner_Full	22.04	22.04
n41	50	30	2664.99	CP	QPSK	Edge_1RB_Left	19.81	19.81
n41	50	30	2664.99	CP	QPSK	Edge_1RB_Right	19.54	19.54
n41	50	30	2664.99	CP	QPSK	Outer_Full	19.68	19.68
n41	50	30	2664.99	CP	16QAM	Inner_Full	21.58	21.58
n41	50	30	2664.99	CP	16QAM	Edge_1RB_Left	20.12	20.12
n41	50	30	2664.99	CP	16QAM	Edge_1RB_Right	19.75	19.75
n41	50	30	2664.99	CP	16QAM	Outer_Full	19.70	19.70
n41	50	30	2664.99	CP	64QAM	Inner_Full	20.59	20.59
n41	50	30	2664.99	CP	64QAM	Edge_1RB_Left	19.90	19.90
n41	50	30	2664.99	CP	64QAM	Edge_1RB_Right	19.65	19.65
n41	50	30	2664.99	CP	64QAM	Outer_Full	19.66	19.66
n41	50	30	2664.99	CP	256QAM	Inner_Full	18.23	18.23
n41	50	30	2664.99	CP	256QAM	Edge_1RB_Left	17.84	17.84
n41	50	30	2664.99	CP	256QAM	Edge_1RB_Right	17.91	17.91
n41	50	30	2664.99	CP	256QAM	Outer_Full	18.17	18.17
n41	60	30	2526	DFT	$\pi/2$ BPSK	Inner_Full	22.49	22.49
n41	60	30	2526	DFT	$\pi/2$ BPSK	Edge_1RB_Left	21.69	21.69
n41	60	30	2526	DFT	$\pi/2$ BPSK	Edge_1RB_Right	21.22	21.22
n41	60	30	2526	DFT	$\pi/2$ BPSK	Outer_Full	21.77	21.77
n41	60	30	2526	DFT	QPSK	Inner_Full	22.46	22.46
n41	60	30	2526	DFT	QPSK	Edge_1RB_Left	21.63	21.63
n41	60	30	2526	DFT	QPSK	Edge_1RB_Right	20.96	20.96
n41	60	30	2526	DFT	QPSK	Outer_Full	21.86	21.86
n41	60	30	2526	DFT	16QAM	Inner_Full	21.91	21.91
n41	60	30	2526	DFT	16QAM	Edge_1RB_Left	21.10	21.10
n41	60	30	2526	DFT	16QAM	Edge_1RB_Right	20.08	20.08
n41	60	30	2526	DFT	16QAM	Outer_Full	20.79	20.79
n41	60	30	2526	DFT	64QAM	Inner_Full	20.50	20.50
n41	60	30	2526	DFT	64QAM	Edge_1RB_Left	20.59	20.59
n41	60	30	2526	DFT	64QAM	Edge_1RB_Right	19.05	19.05
n41	60	30	2526	DFT	64QAM	Outer_Full	20.33	20.33

n41	60	30	2526	DFT	256QAM	Inner_Full	19.33	19.33
n41	60	30	2526	DFT	256QAM	Edge_1RB_Left	19.63	19.63
n41	60	30	2526	DFT	256QAM	Edge_1RB_Right	17.92	17.92
n41	60	30	2526	DFT	256QAM	Outer_Full	19.51	19.51
n41	60	30	2526	CP	QPSK	Inner_Full	21.47	21.47
n41	60	30	2526	CP	QPSK	Edge_1RB_Left	19.16	19.16
n41	60	30	2526	CP	QPSK	Edge_1RB_Right	19.24	19.24
n41	60	30	2526	CP	QPSK	Outer_Full	19.46	19.46
n41	60	30	2526	CP	16QAM	Inner_Full	20.83	20.83
n41	60	30	2526	CP	16QAM	Edge_1RB_Left	20.08	20.08
n41	60	30	2526	CP	16QAM	Edge_1RB_Right	19.16	19.16
n41	60	30	2526	CP	16QAM	Outer_Full	19.32	19.32
n41	60	30	2526	CP	64QAM	Inner_Full	19.49	19.49
n41	60	30	2526	CP	64QAM	Edge_1RB_Left	19.06	19.06
n41	60	30	2526	CP	64QAM	Edge_1RB_Right	18.27	18.27
n41	60	30	2526	CP	64QAM	Outer_Full	19.21	19.21
n41	60	30	2526	CP	256QAM	Inner_Full	16.92	16.92
n41	60	30	2526	CP	256QAM	Edge_1RB_Left	17.49	17.49
n41	60	30	2526	CP	256QAM	Edge_1RB_Right	16.39	16.39
n41	60	30	2526	CP	256QAM	Outer_Full	16.79	16.79
n41	60	30	2592.99	DFT	$\pi/2$ BPSK	Inner_Full	22.78	22.78
n41	60	30	2592.99	DFT	$\pi/2$ BPSK	Edge_1RB_Left	22.04	22.04
n41	60	30	2592.99	DFT	$\pi/2$ BPSK	Edge_1RB_Right	21.83	21.83
n41	60	30	2592.99	DFT	$\pi/2$ BPSK	Outer_Full	22.03	22.03
n41	60	30	2592.99	DFT	QPSK	Inner_Full	22.55	22.55
n41	60	30	2592.99	DFT	QPSK	Edge_1RB_Left	21.81	21.81
n41	60	30	2592.99	DFT	QPSK	Edge_1RB_Right	21.90	21.90
n41	60	30	2592.99	DFT	QPSK	Outer_Full	21.88	21.88
n41	60	30	2592.99	DFT	16QAM	Inner_Full	22.16	22.16
n41	60	30	2592.99	DFT	16QAM	Edge_1RB_Left	21.29	21.29
n41	60	30	2592.99	DFT	16QAM	Edge_1RB_Right	21.11	21.11
n41	60	30	2592.99	DFT	16QAM	Outer_Full	21.31	21.31
n41	60	30	2592.99	DFT	64QAM	Inner_Full	20.78	20.78
n41	60	30	2592.99	DFT	64QAM	Edge_1RB_Left	20.88	20.88
n41	60	30	2592.99	DFT	64QAM	Edge_1RB_Right	20.09	20.09
n41	60	30	2592.99	DFT	64QAM	Outer_Full	20.88	20.88
n41	60	30	2592.99	DFT	256QAM	Inner_Full	19.70	19.70
n41	60	30	2592.99	DFT	256QAM	Edge_1RB_Left	20.67	20.67
n41	60	30	2592.99	DFT	256QAM	Edge_1RB_Right	19.03	19.03
n41	60	30	2592.99	DFT	256QAM	Outer_Full	20.31	20.31
n41	60	30	2592.99	CP	QPSK	Inner_Full	21.94	21.94

n41	60	30	2592.99	CP	QPSK	Edge_1RB_Left	19.31	19.31
n41	60	30	2592.99	CP	QPSK	Edge_1RB_Right	19.41	19.41
n41	60	30	2592.99	CP	QPSK	Outer_Full	19.49	19.49
n41	60	30	2592.99	CP	16QAM	Inner_Full	21.22	21.22
n41	60	30	2592.99	CP	16QAM	Edge_1RB_Left	19.61	19.61
n41	60	30	2592.99	CP	16QAM	Edge_1RB_Right	19.63	19.63
n41	60	30	2592.99	CP	16QAM	Outer_Full	19.50	19.50
n41	60	30	2592.99	CP	64QAM	Inner_Full	19.87	19.87
n41	60	30	2592.99	CP	64QAM	Edge_1RB_Left	19.03	19.03
n41	60	30	2592.99	CP	64QAM	Edge_1RB_Right	19.33	19.33
n41	60	30	2592.99	CP	64QAM	Outer_Full	19.48	19.48
n41	60	30	2592.99	CP	256QAM	Inner_Full	17.27	17.27
n41	60	30	2592.99	CP	256QAM	Edge_1RB_Left	17.79	17.79
n41	60	30	2592.99	CP	256QAM	Edge_1RB_Right	17.48	17.48
n41	60	30	2592.99	CP	256QAM	Outer_Full	17.43	17.43
n41	60	30	2659.98	DFT	$\pi/2$ BPSK	Inner_Full	22.63	22.63
n41	60	30	2659.98	DFT	$\pi/2$ BPSK	Edge_1RB_Left	21.90	21.90
n41	60	30	2659.98	DFT	$\pi/2$ BPSK	Edge_1RB_Right	21.81	21.81
n41	60	30	2659.98	DFT	$\pi/2$ BPSK	Outer_Full	22.23	22.23
n41	60	30	2659.98	DFT	QPSK	Inner_Full	22.67	22.67
n41	60	30	2659.98	DFT	QPSK	Edge_1RB_Left	22.15	22.15
n41	60	30	2659.98	DFT	QPSK	Edge_1RB_Right	21.87	21.87
n41	60	30	2659.98	DFT	QPSK	Outer_Full	22.19	22.19
n41	60	30	2659.98	DFT	16QAM	Inner_Full	22.68	22.68
n41	60	30	2659.98	DFT	16QAM	Edge_1RB_Left	21.54	21.54
n41	60	30	2659.98	DFT	16QAM	Edge_1RB_Right	21.31	21.31
n41	60	30	2659.98	DFT	16QAM	Outer_Full	21.68	21.68
n41	60	30	2659.98	DFT	64QAM	Inner_Full	22.32	22.32
n41	60	30	2659.98	DFT	64QAM	Edge_1RB_Left	21.22	21.22
n41	60	30	2659.98	DFT	64QAM	Edge_1RB_Right	20.41	20.41
n41	60	30	2659.98	DFT	64QAM	Outer_Full	21.66	21.66
n41	60	30	2659.98	DFT	256QAM	Inner_Full	21.17	21.17
n41	60	30	2659.98	DFT	256QAM	Edge_1RB_Left	20.52	20.52
n41	60	30	2659.98	DFT	256QAM	Edge_1RB_Right	19.86	19.86
n41	60	30	2659.98	DFT	256QAM	Outer_Full	21.13	21.13
n41	60	30	2659.98	CP	QPSK	Inner_Full	22.12	22.12
n41	60	30	2659.98	CP	QPSK	Edge_1RB_Left	19.49	19.49
n41	60	30	2659.98	CP	QPSK	Edge_1RB_Right	19.41	19.41
n41	60	30	2659.98	CP	QPSK	Outer_Full	19.75	19.75
n41	60	30	2659.98	CP	16QAM	Inner_Full	21.74	21.74
n41	60	30	2659.98	CP	16QAM	Edge_1RB_Left	19.86	19.86

n41	60	30	2659.98	CP	16QAM	Edge_1RB_Right	19.61	19.61
n41	60	30	2659.98	CP	16QAM	Outer_Full	19.67	19.67
n41	60	30	2659.98	CP	64QAM	Inner_Full	20.76	20.76
n41	60	30	2659.98	CP	64QAM	Edge_1RB_Left	19.46	19.46
n41	60	30	2659.98	CP	64QAM	Edge_1RB_Right	19.52	19.52
n41	60	30	2659.98	CP	64QAM	Outer_Full	19.72	19.72
n41	60	30	2659.98	CP	256QAM	Inner_Full	18.24	18.24
n41	60	30	2659.98	CP	256QAM	Edge_1RB_Left	17.53	17.53
n41	60	30	2659.98	CP	256QAM	Edge_1RB_Right	17.68	17.68
n41	60	30	2659.98	CP	256QAM	Outer_Full	18.17	18.17
n41	80	30	2536.02	DFT	pi/2 BPSK	Inner_Full	22.36	22.36
n41	80	30	2536.02	DFT	pi/2 BPSK	Edge_1RB_Left	21.47	21.47
n41	80	30	2536.02	DFT	pi/2 BPSK	Edge_1RB_Right	20.49	20.49
n41	80	30	2536.02	DFT	pi/2 BPSK	Outer_Full	21.61	21.61
n41	80	30	2536.02	DFT	QPSK	Inner_Full	22.21	22.21
n41	80	30	2536.02	DFT	QPSK	Edge_1RB_Left	21.52	21.52
n41	80	30	2536.02	DFT	QPSK	Edge_1RB_Right	20.23	20.23
n41	80	30	2536.02	DFT	QPSK	Outer_Full	21.61	21.61
n41	80	30	2536.02	DFT	16QAM	Inner_Full	21.77	21.77
n41	80	30	2536.02	DFT	16QAM	Edge_1RB_Left	21.17	21.17
n41	80	30	2536.02	DFT	16QAM	Edge_1RB_Right	19.22	19.22
n41	80	30	2536.02	DFT	16QAM	Outer_Full	20.52	20.52
n41	80	30	2536.02	DFT	64QAM	Inner_Full	20.22	20.22
n41	80	30	2536.02	DFT	64QAM	Edge_1RB_Left	20.66	20.66
n41	80	30	2536.02	DFT	64QAM	Edge_1RB_Right	18.22	18.22
n41	80	30	2536.02	DFT	64QAM	Outer_Full	19.99	19.99
n41	80	30	2536.02	DFT	256QAM	Inner_Full	19.05	19.05
n41	80	30	2536.02	DFT	256QAM	Edge_1RB_Left	19.71	19.71
n41	80	30	2536.02	DFT	256QAM	Edge_1RB_Right	16.98	16.98
n41	80	30	2536.02	DFT	256QAM	Outer_Full	18.57	18.57
n41	80	30	2536.02	CP	QPSK	Inner_Full	21.25	21.25
n41	80	30	2536.02	CP	QPSK	Edge_1RB_Left	19.09	19.09
n41	80	30	2536.02	CP	QPSK	Edge_1RB_Right	18.34	18.34
n41	80	30	2536.02	CP	QPSK	Outer_Full	19.12	19.12
n41	80	30	2536.02	CP	16QAM	Inner_Full	20.58	20.58
n41	80	30	2536.02	CP	16QAM	Edge_1RB_Left	19.32	19.32
n41	80	30	2536.02	CP	16QAM	Edge_1RB_Right	18.27	18.27
n41	80	30	2536.02	CP	16QAM	Outer_Full	19.19	19.19
n41	80	30	2536.02	CP	64QAM	Inner_Full	19.15	19.15
n41	80	30	2536.02	CP	64QAM	Edge_1RB_Left	18.85	18.85
n41	80	30	2536.02	CP	64QAM	Edge_1RB_Right	17.51	17.51

n41	80	30	2536.02	CP	64QAM	Outer_Full	18.89	18.89
n41	80	30	2536.02	CP	256QAM	Inner_Full	16.53	16.53
n41	80	30	2536.02	CP	256QAM	Edge_1RB_Left	17.53	17.53
n41	80	30	2536.02	CP	256QAM	Edge_1RB_Right	16.18	16.18
n41	80	30	2536.02	CP	256QAM	Outer_Full	16.32	16.32
n41	80	30	2592.99	DFT	pi/2 BPSK	Inner_Full	22.52	22.52
n41	80	30	2592.99	DFT	pi/2 BPSK	Edge_1RB_Left	21.81	21.81
n41	80	30	2592.99	DFT	pi/2 BPSK	Edge_1RB_Right	21.63	21.63
n41	80	30	2592.99	DFT	pi/2 BPSK	Outer_Full	21.93	21.93
n41	80	30	2592.99	DFT	QPSK	Inner_Full	22.41	22.41
n41	80	30	2592.99	DFT	QPSK	Edge_1RB_Left	21.73	21.73
n41	80	30	2592.99	DFT	QPSK	Edge_1RB_Right	21.72	21.72
n41	80	30	2592.99	DFT	QPSK	Outer_Full	21.72	21.72
n41	80	30	2592.99	DFT	16QAM	Inner_Full	21.41	21.41
n41	80	30	2592.99	DFT	16QAM	Edge_1RB_Left	21.36	21.36
n41	80	30	2592.99	DFT	16QAM	Edge_1RB_Right	21.34	21.34
n41	80	30	2592.99	DFT	16QAM	Outer_Full	20.67	20.67
n41	80	30	2592.99	DFT	64QAM	Inner_Full	19.86	19.86
n41	80	30	2592.99	DFT	64QAM	Edge_1RB_Left	20.65	20.65
n41	80	30	2592.99	DFT	64QAM	Edge_1RB_Right	20.74	20.74
n41	80	30	2592.99	DFT	64QAM	Outer_Full	20.17	20.17
n41	80	30	2592.99	DFT	256QAM	Inner_Full	18.78	18.78
n41	80	30	2592.99	DFT	256QAM	Edge_1RB_Left	19.63	19.63
n41	80	30	2592.99	DFT	256QAM	Edge_1RB_Right	19.52	19.52
n41	80	30	2592.99	DFT	256QAM	Outer_Full	19.42	19.42
n41	80	30	2592.99	CP	QPSK	Inner_Full	21.14	21.14
n41	80	30	2592.99	CP	QPSK	Edge_1RB_Left	19.34	19.34
n41	80	30	2592.99	CP	QPSK	Edge_1RB_Right	19.39	19.39
n41	80	30	2592.99	CP	QPSK	Outer_Full	19.30	19.30
n41	80	30	2592.99	CP	16QAM	Inner_Full	20.36	20.36
n41	80	30	2592.99	CP	16QAM	Edge_1RB_Left	19.45	19.45
n41	80	30	2592.99	CP	16QAM	Edge_1RB_Right	19.60	19.60
n41	80	30	2592.99	CP	16QAM	Outer_Full	19.24	19.24
n41	80	30	2592.99	CP	64QAM	Inner_Full	18.87	18.87
n41	80	30	2592.99	CP	64QAM	Edge_1RB_Left	18.97	18.97
n41	80	30	2592.99	CP	64QAM	Edge_1RB_Right	18.99	18.99
n41	80	30	2592.99	CP	64QAM	Outer_Full	19.13	19.13
n41	80	30	2592.99	CP	256QAM	Inner_Full	16.21	16.21
n41	80	30	2592.99	CP	256QAM	Edge_1RB_Left	17.75	17.75
n41	80	30	2592.99	CP	256QAM	Edge_1RB_Right	17.74	17.74
n41	80	30	2592.99	CP	256QAM	Outer_Full	16.55	16.55

n41	80	30	2649.99	DFT	pi/2 BPSK	Inner_Full	22.60	22.60
n41	80	30	2649.99	DFT	pi/2 BPSK	Edge_1RB_Left	21.96	21.96
n41	80	30	2649.99	DFT	pi/2 BPSK	Edge_1RB_Right	21.65	21.65
n41	80	30	2649.99	DFT	pi/2 BPSK	Outer_Full	21.99	21.99
n41	80	30	2649.99	DFT	QPSK	Inner_Full	22.70	22.70
n41	80	30	2649.99	DFT	QPSK	Edge_1RB_Left	22.15	22.15
n41	80	30	2649.99	DFT	QPSK	Edge_1RB_Right	21.65	21.65
n41	80	30	2649.99	DFT	QPSK	Outer_Full	21.93	21.93
n41	80	30	2649.99	DFT	16QAM	Inner_Full	22.60	22.60
n41	80	30	2649.99	DFT	16QAM	Edge_1RB_Left	21.43	21.43
n41	80	30	2649.99	DFT	16QAM	Edge_1RB_Right	21.96	21.96
n41	80	30	2649.99	DFT	16QAM	Outer_Full	21.52	21.52
n41	80	30	2649.99	DFT	64QAM	Inner_Full	22.66	22.66
n41	80	30	2649.99	DFT	64QAM	Edge_1RB_Left	21.14	21.14
n41	80	30	2649.99	DFT	64QAM	Edge_1RB_Right	20.22	20.22
n41	80	30	2649.99	DFT	64QAM	Outer_Full	21.52	21.52
n41	80	30	2649.99	DFT	256QAM	Inner_Full	21.25	21.25
n41	80	30	2649.99	DFT	256QAM	Edge_1RB_Left	20.78	20.78
n41	80	30	2649.99	DFT	256QAM	Edge_1RB_Right	20.50	20.50
n41	80	30	2649.99	DFT	256QAM	Outer_Full	21.02	21.02
n41	80	30	2649.99	CP	QPSK	Inner_Full	22.07	22.07
n41	80	30	2649.99	CP	QPSK	Edge_1RB_Left	19.43	19.43
n41	80	30	2649.99	CP	QPSK	Edge_1RB_Right	19.26	19.26
n41	80	30	2649.99	CP	QPSK	Outer_Full	19.49	19.49
n41	80	30	2649.99	CP	16QAM	Inner_Full	21.70	21.70
n41	80	30	2649.99	CP	16QAM	Edge_1RB_Left	19.73	19.73
n41	80	30	2649.99	CP	16QAM	Edge_1RB_Right	20.01	20.01
n41	80	30	2649.99	CP	16QAM	Outer_Full	19.47	19.47
n41	80	30	2649.99	CP	64QAM	Inner_Full	20.75	20.75
n41	80	30	2649.99	CP	64QAM	Edge_1RB_Left	19.02	19.02
n41	80	30	2649.99	CP	64QAM	Edge_1RB_Right	19.23	19.23
n41	80	30	2649.99	CP	64QAM	Outer_Full	19.44	19.44
n41	80	30	2649.99	CP	256QAM	Inner_Full	18.14	18.14
n41	80	30	2649.99	CP	256QAM	Edge_1RB_Left	17.84	17.84
n41	80	30	2649.99	CP	256QAM	Edge_1RB_Right	17.77	17.77
n41	80	30	2649.99	CP	256QAM	Outer_Full	17.91	17.91
n41	90	30	2541	DFT	pi/2 BPSK	Inner_Full	22.29	22.29
n41	90	30	2541	DFT	pi/2 BPSK	Edge_1RB_Left	21.56	21.56
n41	90	30	2541	DFT	pi/2 BPSK	Edge_1RB_Right	19.94	19.94
n41	90	30	2541	DFT	pi/2 BPSK	Outer_Full	21.88	21.88
n41	90	30	2541	DFT	QPSK	Inner_Full	22.16	22.16

n41	90	30	2541	DFT	QPSK	Edge_1RB_Left	21.61	21.61
n41	90	30	2541	DFT	QPSK	Edge_1RB_Right	20.34	20.34
n41	90	30	2541	DFT	QPSK	Outer_Full	21.46	21.46
n41	90	30	2541	DFT	16QAM	Inner_Full	21.51	21.51
n41	90	30	2541	DFT	16QAM	Edge_1RB_Left	21.09	21.09
n41	90	30	2541	DFT	16QAM	Edge_1RB_Right	19.20	19.20
n41	90	30	2541	DFT	16QAM	Outer_Full	20.39	20.39
n41	90	30	2541	DFT	64QAM	Inner_Full	20.04	20.04
n41	90	30	2541	DFT	64QAM	Edge_1RB_Left	20.18	20.18
n41	90	30	2541	DFT	64QAM	Edge_1RB_Right	17.99	17.99
n41	90	30	2541	DFT	64QAM	Outer_Full	19.85	19.85
n41	90	30	2541	DFT	256QAM	Inner_Full	18.82	18.82
n41	90	30	2541	DFT	256QAM	Edge_1RB_Left	19.06	19.06
n41	90	30	2541	DFT	256QAM	Edge_1RB_Right	16.83	16.83
n41	90	30	2541	DFT	256QAM	Outer_Full	18.43	18.43
n41	90	30	2541	CP	QPSK	Inner_Full	21.09	21.09
n41	90	30	2541	CP	QPSK	Edge_1RB_Left	19.03	19.03
n41	90	30	2541	CP	QPSK	Edge_1RB_Right	17.84	17.84
n41	90	30	2541	CP	QPSK	Outer_Full	19.24	19.24
n41	90	30	2541	CP	16QAM	Inner_Full	20.33	20.33
n41	90	30	2541	CP	16QAM	Edge_1RB_Left	19.35	19.35
n41	90	30	2541	CP	16QAM	Edge_1RB_Right	17.88	17.88
n41	90	30	2541	CP	16QAM	Outer_Full	19.15	19.15
n41	90	30	2541	CP	64QAM	Inner_Full	18.95	18.95
n41	90	30	2541	CP	64QAM	Edge_1RB_Left	18.88	18.88
n41	90	30	2541	CP	64QAM	Edge_1RB_Right	18.07	18.07
n41	90	30	2541	CP	64QAM	Outer_Full	18.65	18.65
n41	90	30	2541	CP	256QAM	Inner_Full	16.33	16.33
n41	90	30	2541	CP	256QAM	Edge_1RB_Left	16.83	16.83
n41	90	30	2541	CP	256QAM	Edge_1RB_Right	15.96	15.96
n41	90	30	2541	CP	256QAM	Outer_Full	16.05	16.05
n41	90	30	2592.99	DFT	$\pi/2$ BPSK	Inner_Full	22.47	22.47
n41	90	30	2592.99	DFT	$\pi/2$ BPSK	Edge_1RB_Left	21.80	21.80
n41	90	30	2592.99	DFT	$\pi/2$ BPSK	Edge_1RB_Right	21.82	21.82
n41	90	30	2592.99	DFT	$\pi/2$ BPSK	Outer_Full	21.73	21.73
n41	90	30	2592.99	DFT	QPSK	Inner_Full	22.37	22.37
n41	90	30	2592.99	DFT	QPSK	Edge_1RB_Left	21.77	21.77
n41	90	30	2592.99	DFT	QPSK	Edge_1RB_Right	21.87	21.87
n41	90	30	2592.99	DFT	QPSK	Outer_Full	21.72	21.72
n41	90	30	2592.99	DFT	16QAM	Inner_Full	21.36	21.36
n41	90	30	2592.99	DFT	16QAM	Edge_1RB_Left	21.21	21.21

n41	90	30	2592.99	DFT	16QAM	Edge_1RB_Right	21.40	21.40
n41	90	30	2592.99	DFT	16QAM	Outer_Full	20.70	20.70
n41	90	30	2592.99	DFT	64QAM	Inner_Full	19.85	19.85
n41	90	30	2592.99	DFT	64QAM	Edge_1RB_Left	20.16	20.16
n41	90	30	2592.99	DFT	64QAM	Edge_1RB_Right	20.30	20.30
n41	90	30	2592.99	DFT	64QAM	Outer_Full	20.16	20.16
n41	90	30	2592.99	DFT	256QAM	Inner_Full	18.72	18.72
n41	90	30	2592.99	DFT	256QAM	Edge_1RB_Left	19.12	19.12
n41	90	30	2592.99	DFT	256QAM	Edge_1RB_Right	19.18	19.18
n41	90	30	2592.99	DFT	256QAM	Outer_Full	19.50	19.50
n41	90	30	2592.99	CP	QPSK	Inner_Full	21.02	21.02
n41	90	30	2592.99	CP	QPSK	Edge_1RB_Left	19.24	19.24
n41	90	30	2592.99	CP	QPSK	Edge_1RB_Right	19.43	19.43
n41	90	30	2592.99	CP	QPSK	Outer_Full	19.40	19.40
n41	90	30	2592.99	CP	16QAM	Inner_Full	20.27	20.27
n41	90	30	2592.99	CP	16QAM	Edge_1RB_Left	19.48	19.48
n41	90	30	2592.99	CP	16QAM	Edge_1RB_Right	19.73	19.73
n41	90	30	2592.99	CP	16QAM	Outer_Full	19.29	19.29
n41	90	30	2592.99	CP	64QAM	Inner_Full	18.86	18.86
n41	90	30	2592.99	CP	64QAM	Edge_1RB_Left	18.98	18.98
n41	90	30	2592.99	CP	64QAM	Edge_1RB_Right	19.14	19.14
n41	90	30	2592.99	CP	64QAM	Outer_Full	19.15	19.15
n41	90	30	2592.99	CP	256QAM	Inner_Full	16.20	16.20
n41	90	30	2592.99	CP	256QAM	Edge_1RB_Left	16.88	16.88
n41	90	30	2592.99	CP	256QAM	Edge_1RB_Right	16.95	16.95
n41	90	30	2592.99	CP	256QAM	Outer_Full	16.58	16.58
n41	90	30	2644.98	DFT	$\pi/2$ BPSK	Inner_Full	22.73	22.73
n41	90	30	2644.98	DFT	$\pi/2$ BPSK	Edge_1RB_Left	22.05	22.05
n41	90	30	2644.98	DFT	$\pi/2$ BPSK	Edge_1RB_Right	21.92	21.92
n41	90	30	2644.98	DFT	$\pi/2$ BPSK	Outer_Full	22.18	22.18
n41	90	30	2644.98	DFT	QPSK	Inner_Full	22.76	22.76
n41	90	30	2644.98	DFT	QPSK	Edge_1RB_Left	22.04	22.04
n41	90	30	2644.98	DFT	QPSK	Edge_1RB_Right	21.81	21.81
n41	90	30	2644.98	DFT	QPSK	Outer_Full	22.13	22.13
n41	90	30	2644.98	DFT	16QAM	Inner_Full	22.72	22.72
n41	90	30	2644.98	DFT	16QAM	Edge_1RB_Left	21.62	21.62
n41	90	30	2644.98	DFT	16QAM	Edge_1RB_Right	21.06	21.06
n41	90	30	2644.98	DFT	16QAM	Outer_Full	21.70	21.70
n41	90	30	2644.98	DFT	64QAM	Inner_Full	22.70	22.70
n41	90	30	2644.98	DFT	64QAM	Edge_1RB_Left	21.19	21.19
n41	90	30	2644.98	DFT	64QAM	Edge_1RB_Right	21.66	21.66

n41	90	30	2644.98	DFT	64QAM	Outer_Full	21.09	21.09
n41	90	30	2644.98	DFT	256QAM	Inner_Full	21.18	21.18
n41	90	30	2644.98	DFT	256QAM	Edge_1RB_Left	20.76	20.76
n41	90	30	2644.98	DFT	256QAM	Edge_1RB_Right	20.71	20.71
n41	90	30	2644.98	DFT	256QAM	Outer_Full	21.10	21.10
n41	90	30	2644.98	CP	QPSK	Inner_Full	22.16	22.16
n41	90	30	2644.98	CP	QPSK	Edge_1RB_Left	19.64	19.64
n41	90	30	2644.98	CP	QPSK	Edge_1RB_Right	19.30	19.30
n41	90	30	2644.98	CP	QPSK	Outer_Full	19.67	19.67
n41	90	30	2644.98	CP	16QAM	Inner_Full	21.61	21.61
n41	90	30	2644.98	CP	16QAM	Edge_1RB_Left	19.93	19.93
n41	90	30	2644.98	CP	16QAM	Edge_1RB_Right	19.75	19.75
n41	90	30	2644.98	CP	16QAM	Outer_Full	19.56	19.56
n41	90	30	2644.98	CP	64QAM	Inner_Full	20.70	20.70
n41	90	30	2644.98	CP	64QAM	Edge_1RB_Left	19.50	19.50
n41	90	30	2644.98	CP	64QAM	Edge_1RB_Right	19.17	19.17
n41	90	30	2644.98	CP	64QAM	Outer_Full	19.72	19.72
n41	90	30	2644.98	CP	256QAM	Inner_Full	18.28	18.28
n41	90	30	2644.98	CP	256QAM	Edge_1RB_Left	18.04	18.04
n41	90	30	2644.98	CP	256QAM	Edge_1RB_Right	17.62	17.62
n41	90	30	2644.98	CP	256QAM	Outer_Full	18.20	18.20
n41	100	30	2546.01	DFT	pi/2 BPSK	Inner_Full	22.27	22.27
n41	100	30	2546.01	DFT	pi/2 BPSK	Edge_1RB_Left	21.53	21.53
n41	100	30	2546.01	DFT	pi/2 BPSK	Edge_1RB_Right	19.98	19.98
n41	100	30	2546.01	DFT	pi/2 BPSK	Outer_Full	21.38	21.38
n41	100	30	2546.01	DFT	QPSK	Inner_Full	21.69	21.69
n41	100	30	2546.01	DFT	QPSK	Edge_1RB_Left	21.48	21.48
n41	100	30	2546.01	DFT	QPSK	Edge_1RB_Right	19.92	19.92
n41	100	30	2546.01	DFT	QPSK	Outer_Full	20.67	20.67
n41	100	30	2546.01	DFT	16QAM	Inner_Full	20.66	20.66
n41	100	30	2546.01	DFT	16QAM	Edge_1RB_Left	21.23	21.23
n41	100	30	2546.01	DFT	16QAM	Edge_1RB_Right	18.38	18.38
n41	100	30	2546.01	DFT	16QAM	Outer_Full	19.62	19.62
n41	100	30	2546.01	DFT	64QAM	Inner_Full	19.13	19.13
n41	100	30	2546.01	DFT	64QAM	Edge_1RB_Left	19.90	19.90
n41	100	30	2546.01	DFT	64QAM	Edge_1RB_Right	17.99	17.99
n41	100	30	2546.01	DFT	64QAM	Outer_Full	19.13	19.13
n41	100	30	2546.01	DFT	256QAM	Inner_Full	17.94	17.94
n41	100	30	2546.01	DFT	256QAM	Edge_1RB_Left	19.25	19.25
n41	100	30	2546.01	DFT	256QAM	Edge_1RB_Right	16.94	16.94
n41	100	30	2546.01	DFT	256QAM	Outer_Full	18.32	18.32

n41	100	30	2546.01	CP	QPSK	Inner_Full	20.28	20.28
n41	100	30	2546.01	CP	QPSK	Edge_1RB_Left	19.08	19.08
n41	100	30	2546.01	CP	QPSK	Edge_1RB_Right	17.38	17.38
n41	100	30	2546.01	CP	QPSK	Outer_Full	18.68	18.68
n41	100	30	2546.01	CP	16QAM	Inner_Full	19.55	19.55
n41	100	30	2546.01	CP	16QAM	Edge_1RB_Left	19.36	19.36
n41	100	30	2546.01	CP	16QAM	Edge_1RB_Right	17.45	17.45
n41	100	30	2546.01	CP	16QAM	Outer_Full	18.57	18.57
n41	100	30	2546.01	CP	64QAM	Inner_Full	18.56	18.56
n41	100	30	2546.01	CP	64QAM	Edge_1RB_Left	18.99	18.99
n41	100	30	2546.01	CP	64QAM	Edge_1RB_Right	17.56	17.56
n41	100	30	2546.01	CP	64QAM	Outer_Full	18.07	18.07
n41	100	30	2546.01	CP	256QAM	Inner_Full	16.21	16.21
n41	100	30	2546.01	CP	256QAM	Edge_1RB_Left	17.58	17.58
n41	100	30	2546.01	CP	256QAM	Edge_1RB_Right	15.89	15.89
n41	100	30	2546.01	CP	256QAM	Outer_Full	16.14	16.14
n41	100	30	2592.99	DFT	$\pi/2$ BPSK	Inner_Full	22.53	22.53
n41	100	30	2592.99	DFT	$\pi/2$ BPSK	Edge_1RB_Left	21.92	21.92
n41	100	30	2592.99	DFT	$\pi/2$ BPSK	Edge_1RB_Right	21.92	21.92
n41	100	30	2592.99	DFT	$\pi/2$ BPSK	Outer_Full	21.72	21.72
n41	100	30	2592.99	DFT	QPSK	Inner_Full	22.12	22.12
n41	100	30	2592.99	DFT	QPSK	Edge_1RB_Left	21.79	21.79
n41	100	30	2592.99	DFT	QPSK	Edge_1RB_Right	21.87	21.87
n41	100	30	2592.99	DFT	QPSK	Outer_Full	21.43	21.43
n41	100	30	2592.99	DFT	16QAM	Inner_Full	21.06	21.06
n41	100	30	2592.99	DFT	16QAM	Edge_1RB_Left	21.41	21.41
n41	100	30	2592.99	DFT	16QAM	Edge_1RB_Right	21.55	21.55
n41	100	30	2592.99	DFT	16QAM	Outer_Full	20.39	20.39
n41	100	30	2592.99	DFT	64QAM	Inner_Full	19.52	19.52
n41	100	30	2592.99	DFT	64QAM	Edge_1RB_Left	19.89	19.89
n41	100	30	2592.99	DFT	64QAM	Edge_1RB_Right	20.22	20.22
n41	100	30	2592.99	DFT	64QAM	Outer_Full	19.90	19.90
n41	100	30	2592.99	DFT	256QAM	Inner_Full	18.41	18.41
n41	100	30	2592.99	DFT	256QAM	Edge_1RB_Left	19.40	19.40
n41	100	30	2592.99	DFT	256QAM	Edge_1RB_Right	19.62	19.62
n41	100	30	2592.99	DFT	256QAM	Outer_Full	19.16	19.16
n41	100	30	2592.99	CP	QPSK	Inner_Full	20.76	20.76
n41	100	30	2592.99	CP	QPSK	Edge_1RB_Left	19.41	19.41
n41	100	30	2592.99	CP	QPSK	Edge_1RB_Right	19.42	19.42
n41	100	30	2592.99	CP	QPSK	Outer_Full	19.40	19.40
n41	100	30	2592.99	CP	16QAM	Inner_Full	19.97	19.97

n41	100	30	2592.99	CP	16QAM	Edge_1RB_Left	19.68	19.68
n41	100	30	2592.99	CP	16QAM	Edge_1RB_Right	19.75	19.75
n41	100	30	2592.99	CP	16QAM	Outer_Full	19.38	19.38
n41	100	30	2592.99	CP	64QAM	Inner_Full	18.55	18.55
n41	100	30	2592.99	CP	64QAM	Edge_1RB_Left	19.30	19.30
n41	100	30	2592.99	CP	64QAM	Edge_1RB_Right	19.57	19.57
n41	100	30	2592.99	CP	64QAM	Outer_Full	18.87	18.87
n41	100	30	2592.99	CP	256QAM	Inner_Full	15.88	15.88
n41	100	30	2592.99	CP	256QAM	Edge_1RB_Left	17.68	17.68
n41	100	30	2592.99	CP	256QAM	Edge_1RB_Right	17.87	17.87
n41	100	30	2592.99	CP	256QAM	Outer_Full	16.26	16.26
n41	100	30	2640	DFT	$\pi/2$ BPSK	Inner_Full	22.74	22.74
n41	100	30	2640	DFT	$\pi/2$ BPSK	Edge_1RB_Left	22.28	22.28
n41	100	30	2640	DFT	$\pi/2$ BPSK	Edge_1RB_Right	21.90	21.90
n41	100	30	2640	DFT	$\pi/2$ BPSK	Outer_Full	22.05	22.05
n41	100	30	2640	DFT	QPSK	Inner_Full	22.76	22.76
n41	100	30	2640	DFT	QPSK	Edge_1RB_Left	22.44	22.44
n41	100	30	2640	DFT	QPSK	Edge_1RB_Right	21.71	21.71
n41	100	30	2640	DFT	QPSK	Outer_Full	22.13	22.13
n41	100	30	2640	DFT	16QAM	Inner_Full	22.45	22.45
n41	100	30	2640	DFT	16QAM	Edge_1RB_Left	21.96	21.96
n41	100	30	2640	DFT	16QAM	Edge_1RB_Right	21.49	21.49
n41	100	30	2640	DFT	16QAM	Outer_Full	21.95	21.95
n41	100	30	2640	DFT	64QAM	Inner_Full	22.81	22.81
n41	100	30	2640	DFT	64QAM	Edge_1RB_Left	21.37	21.37
n41	100	30	2640	DFT	64QAM	Edge_1RB_Right	21.12	21.12
n41	100	30	2640	DFT	64QAM	Outer_Full	22.30	22.30
n41	100	30	2640	DFT	256QAM	Inner_Full	21.21	21.21
n41	100	30	2640	DFT	256QAM	Edge_1RB_Left	21.09	21.09
n41	100	30	2640	DFT	256QAM	Edge_1RB_Right	20.89	20.89
n41	100	30	2640	DFT	256QAM	Outer_Full	21.15	21.15
n41	100	30	2640	CP	QPSK	Inner_Full	22.12	22.12
n41	100	30	2640	CP	QPSK	Edge_1RB_Left	19.72	19.72
n41	100	30	2640	CP	QPSK	Edge_1RB_Right	19.32	19.32
n41	100	30	2640	CP	QPSK	Outer_Full	19.67	19.67
n41	100	30	2640	CP	16QAM	Inner_Full	21.74	21.74
n41	100	30	2640	CP	16QAM	Edge_1RB_Left	19.96	19.96
n41	100	30	2640	CP	16QAM	Edge_1RB_Right	19.57	19.57
n41	100	30	2640	CP	16QAM	Outer_Full	19.62	19.62
n41	100	30	2640	CP	64QAM	Inner_Full	20.70	20.70
n41	100	30	2640	CP	64QAM	Edge_1RB_Left	19.66	19.66

n41	100	30	2640	CP	64QAM	Edge_1RB_Right	19.36	19.36
n41	100	30	2640	CP	64QAM	Outer_Full	19.59	19.59
n41	100	30	2640	CP	256QAM	Inner_Full	18.18	18.18
n41	100	30	2640	CP	256QAM	Edge_1RB_Left	18.08	18.08
n41	100	30	2640	CP	256QAM	Edge_1RB_Right	17.80	17.80
n41	100	30	2640	CP	256QAM	Outer_Full	18.12	18.12

A.2 Emission Limit

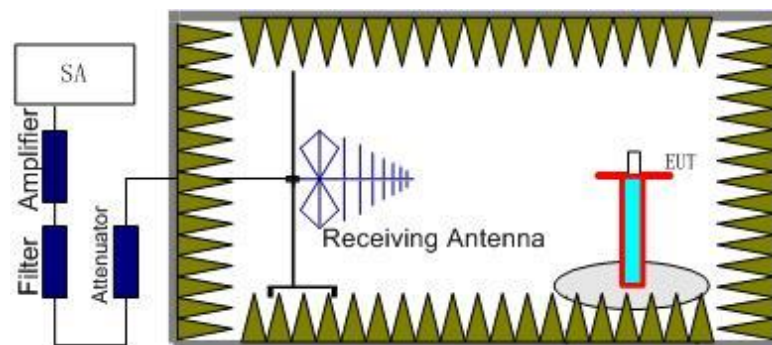
A.2.1 Measurement Method

The measurements procedures in TIA-603E-2016 are used. This measurement is carried out in fully anechoic chamber FAC-3.

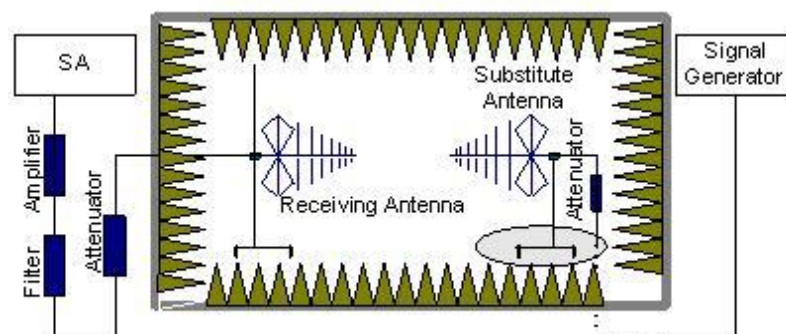
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier. The resolution bandwidth is set 1MHz. The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of each LTE Band.

The procedure of radiated spurious emissions is as follows:

1. EUT was placed on a 1.5-meter-high non-conductive stand at a 3-meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.5m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360 and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic were measured with peak detector.



2. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (Pr).
3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



In the chamber, a substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is

connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (P_{Mea}) is applied to the input of the substitution antenna. Adjust the level of the signal generator output until the value of the receiver reaches the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

4. The Path loss (P_{pl}) between the Signal Source with the Substitution Antenna and the Substitution Antenna Gain (G_a) should be recorded after test.

An amplifier should be connected in for the test.

The Path loss (P_{pl}) is the summation of the cable loss and the gain of the amplifier.

The measurement results are obtained as described below:

$$\text{Power (EIRP)} = P_{Mea} + P_{pl} + G_a$$

5. This value is EIRP since the measurement is calibrated using an antenna of known gain (unit: dBi) and known input power.
6. ERP can be calculated from EIRP by subtracting the gain of the dipole, $ERP = EIRP - 2.15\text{dB}$.

A.2.2 Measurement Limit

Part 22.917 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

Part 27.53(m) specifies for mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

A.2.3 Measurement Results

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of each LTE Band. It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of each LTE Band into any of the other blocks. The equipment must still, however, meet emissions requirements with the carrier at all frequencies over which it is capable of operating and it is the manufacturer's responsibility to verify this. The range of evaluated frequency is from 30MHz to 26GHz.

BANDS	LTE Antenna NO.	5G NR Antenna NO.	Channel	Result
5G NR SA n7	/	ANT 3	Low	Pass
			Middle	Pass
			High	Pass
	/	ANT 9	Low	Pass
			Middle	Pass
			High	Pass
	/	ANT 1	Low	Pass
			Middle	Pass
			High	Pass
	/	ANT 6	Low	Pass
			Middle	Pass
			High	Pass
5G NR SA n38	/	ANT 3	Low	Pass
			Middle	Pass
			High	Pass
	/	ANT 9	Low	Pass
			Middle	Pass
			High	Pass
	/	ANT 1	Low	Pass
			Middle	Pass
			High	Pass
	/	ANT 6	Low	Pass
			Middle	Pass
			High	Pass
5G NR SA n41	/	ANT 3	Low	Pass
			Middle	Pass
			High	Pass
	/	ANT 9	Low	Pass
			Middle	Pass
			High	Pass
	/	ANT1	Low	Pass
			Middle	Pass
			High	Pass
	/	ANT 6	Low	Pass
			Middle	Pass
			High	Pass

UT35a & UT36a with AE1/AE9/AE2/AE3/AE4/AE5/AE6/AE7/AE8

5G NR NSA	1	ANT 3	Low	Pass
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LTE Band 66 + n7			Middle	Pass
			High	Pass
			Low	Pass
	6	ANT 3	Middle	Pass
			High	Pass
			Low	Pass
	1	ANT 9	Middle	Pass
			High	Pass
			Low	Pass
	6	ANT 9	Middle	Pass
			High	Pass
			Low	Pass
	1	ANT 1	Middle	Pass
			High	Pass
			Low	Pass
	6	ANT 1	Middle	Pass
			ANT High	Pass
			Low	Pass
	1	ANT 6	Middle	Pass
			High	Pass
			Low	Pass
	6	ANT 6	Middle	Pass
			High	Pass
			Low	Pass
5G NR NSA LTE Band 5 + n38	0	ANT 3	Middle	Pass
			High	Pass
			Low	Pass
	2	ANT 3	Middle	Pass
			High	Pass
			Low	Pass
	0	ANT 9	Middle	Pass
			High	Pass
			Low	Pass
	2	ANT 9	Middle	Pass
			High	Pass
			Low	Pass
	0	ANT 1	Middle	Pass
			High	Pass
			Low	Pass
	2	ANT 1	Middle	Pass
			ANT High	Pass
			Low	Pass
	0	ANT 6	Middle	Pass
			Low	Pass

	2	ANT 6	High	Pass
			Low	Pass
			Middle	Pass
			High	Pass
5G NR NSA LTE Band 26 + n41	0	ANT 3	Low	Pass
			Middle	Pass
			High	Pass
	2	ANT 3	Low	Pass
			Middle	Pass
			High	Pass
	0	ANT 9	Low	Pass
			Middle	Pass
			High	Pass
	2	ANT 9	Low	Pass
			Middle	Pass
			High	Pass
	0	ANT 1	Low	Pass
			Middle	Pass
			High	Pass
	2	ANT 1	Low	Pass
			Middle	Pass
			ANT High	Pass
	0	ANT 6	Low	Pass
			Middle	Pass
			High	Pass
	2	ANT 6	Low	Pass
			Middle	Pass
			High	Pass

Note: All combinations, test mod and all antennas were tested, only the worst results are shown in this report.

UT35a with AE9,AE3 and AE5, Ant 1
5G NR SA n7, 5MHz, QPSK, Channel 500500

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5025.01	-56.11	6.56	9.94	-52.73	-25.00	27.73	V
7514.01	-42.54	8.34	12.21	-38.67	-25.00	13.67	V
10007.01	-51.79	9.20	12.90	-48.09	-25.00	23.09	V
12522.00	-48.52	10.24	13.21	-45.55	-25.00	20.55	V
15038.00	-45.25	11.27	13.98	-42.54	-25.00	17.54	V
17518.00	-44.42	12.79	14.93	-42.28	-25.00	17.28	V

5G NR SA n7, 5MHz, QPSK, Channel 507000

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5075.01	-56.11	6.70	10.01	-52.80	-25.00	27.80	H
7612.01	-38.50	8.03	12.29	-34.24	-25.00	9.24	V
10111.01	-52.17	9.44	12.94	-48.67	-25.00	23.67	H
12676.00	-47.85	10.34	13.31	-44.88	-25.00	19.88	H
15193.00	-45.58	11.40	13.88	-43.10	-25.00	18.10	H
17747.00	-44.15	12.44	15.25	-41.34	-25.00	16.34	H

5G NR SA n7, 5MHz, QPSK, Channel 513500

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5160.01	-55.23	6.90	10.12	-52.01	-25.00	27.01	V
7709.01	-35.34	8.41	12.37	-31.38	-25.00	6.38	V
10278.01	-50.94	9.57	13.01	-47.50	-25.00	22.50	V
12847.00	-48.01	10.64	13.41	-45.24	-25.00	20.24	V
15422.00	-44.47	11.42	13.75	-42.14	-25.00	17.14	H
17983.00	-43.81	12.90	15.58	-41.13	-25.00	16.13	H

UT35a with AE9,AE3 and AE5, Ant 9
5G NR SA n38, 20MHz, QPSK, Channel 516000

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5279.01	-35.55	6.67	9.52	-52.37	-25.00	27.37	H
7710.01	-53.71	8.41	12.37	-49.40	-25.00	24.40	V
10294.01	-51.69	9.62	13.02	-47.92	-25.00	22.92	V
13929.00	-47.38	10.80	14.25	-44.34	-25.00	19.34	H
15555.00	-44.39	11.54	13.71	-41.99	-25.00	16.99	H
16772.00	-42.45	12.01	13.71	-41.69	-25.00	16.69	V

5G NR SA n38, 20MHz, QPSK, Channel 519000

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5196.01	-53.59	6.95	10.17	-50.37	-25.00	25.37	V
7795.01	-53.88	8.29	12.44	-49.73	-25.00	24.73	V
10402.01	-50.97	9.80	13.06	-47.71	-25.00	22.71	V
13002.00	-49.00	10.48	13.50	-45.98	-25.00	20.98	H
15553.00	-44.40	11.51	13.70	-42.21	-25.00	17.21	H
16839.00	-41.69	12.07	13.74	-40.02	-25.00	15.02	V

5G NR SA n38, 20MHz, QPSK, Channel 522000

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5225.01	-54.13	7.00	10.22	-50.91	-25.00	25.91	H
7855.01	-54.07	8.36	12.48	-49.95	-25.00	24.95	H
10443.01	-51.55	9.74	13.08	-48.21	-25.00	23.21	V
13074.00	-47.61	10.81	13.60	-44.82	-25.00	19.82	V
15632.00	-44.25	11.52	13.70	-42.07	-25.00	17.07	H
16940.00	-42.29	12.15	13.78	-40.66	-25.00	15.66	H

UT35a with AE9,AE3 and AE5, Ant 1
5G NR SA n41, 100MHz, QPSK, Channel 5528000

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5103.01	-45.84	6.78	10.04	-42.58	-25.00	17.58	H
7649.01	-47.96	8.20	12.32	-43.84	-25.00	18.84	V
10211.01	-51.28	9.34	12.98	-47.64	-25.00	22.64	V
12707.00	-48.04	10.33	13.32	-45.05	-25.00	20.05	V
15267.00	-45.19	11.32	13.84	-42.67	-25.00	17.67	H
17829.00	-44.38	12.77	15.36	-41.79	-25.00	16.79	H

5G NR SA n41, 100MHz, QPSK, Channel 509202

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5158.01	-55.58	6.89	10.12	-52.35	-25.00	27.35	V
7784.01	-42.48	8.31	12.43	-38.36	-25.00	13.36	V
10378.01	-51.44	9.77	13.05	-48.16	-25.00	23.16	V
12955.00	-48.99	10.48	13.47	-46.00	-25.00	21.00	V
15547.00	-44.97	11.51	13.70	-42.78	-25.00	17.78	V
16829.00	-42.73	12.08	13.73	-41.08	-25.00	16.08	H

5G NR SA n41,100MHz, QPSK, Channel 528000

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5257.01	-55.17	7.00	10.26	-51.91	-25.00	26.91	H
7926.01	-41.48	8.40	12.54	-37.34	-25.00	12.34	V
10571.00	-51.55	9.39	13.11	-47.83	-25.00	22.83	V
13220.00	-48.57	10.51	13.81	-45.27	-25.00	20.27	H
15818.00	-43.97	11.65	13.70	-41.92	-25.00	16.92	H
17158.00	-42.64	12.48	14.15	-40.97	-25.00	15.97	V

UT35a with AE9,AE3 and AE5, Ant 1(LTE)+Ant 9(NR)
5G NR NSA LTE B66+n7, 5MHz,+5MHz, QPSK, Channel 500500

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5006.01	-56.24	6.59	9.91	-52.92	-25.00	27.92	V
7535.01	-53.86	8.25	12.23	-49.88	-25.00	24.88	V
10014.01	-52.15	9.22	12.91	-48.46	-25.00	23.46	V
12540.00	-48.12	10.29	13.22	-45.19	-25.00	20.19	V
15025.00	-45.83	11.25	13.98	-43.10	-25.00	18.10	V
17498.00	-44.40	12.72	14.90	-42.22	-25.00	17.22	V

5G NR NSA LTE B66+n7, 5MHz,+5MHz, QPSK, Channel 507000

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5073.01	-56.06	6.70	10.00	-52.76	-25.00	27.76	H
7629.01	-53.81	8.10	12.30	-49.61	-25.00	24.61	H
10117.01	-51.75	9.43	12.95	-48.23	-25.00	23.23	V
12667.00	-48.47	10.35	13.30	-45.52	-25.00	20.52	V
15203.00	-44.91	11.40	13.88	-42.43	-25.00	17.43	H
17773.00	-43.82	12.58	15.28	-41.12	-25.00	16.12	H

5G NR NSA LTE B66+n7, 5MHz,+5MHz, QPSK, Channel 513500

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5146.01	-55.27	6.88	10.10	-52.05	-25.00	27.05	H
7681.01	-54.04	8.34	12.34	-50.04	-25.00	25.04	V
10281.01	-50.58	9.58	13.01	-47.15	-25.00	22.15	V
12844.00	-48.41	10.65	13.41	-45.65	-25.00	20.65	H
15427.00	-43.98	11.43	13.74	-41.67	-25.00	16.67	H
17996.00	-43.34	12.90	15.59	-40.65	-25.00	15.65	H

UT35a with AE9,AE3 and AE5, Ant 2(LTE)+Ant 6(NR)
5G NR NSA LTE B5+n38, 5MHz,+20MHz, QPSK, Channel 516000

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5132.01	-55.00	6.85	10.08	-51.77	-25.00	26.77	V
7753.01	-53.87	8.35	12.40	-49.82	-25.00	24.82	H
10328.01	-50.61	9.69	13.03	-47.27	-25.00	22.27	V
12920.00	-48.57	10.50	13.45	-45.62	-25.00	20.62	V
15450.00	-44.63	11.46	13.73	-42.36	-25.00	17.36	H
16797.00	-41.81	12.10	13.72	-40.19	-25.00	15.19	H

5G NR NSA LTE B5+n38, 5MHz,+20MHz, QPSK, Channel 519000

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5171.01	-55.53	6.91	10.14	-52.30	-25.00	27.30	V
7797.01	-54.19	8.29	12.44	-50.04	-25.00	25.04	V
10384.01	-51.12	9.78	13.05	-47.85	-25.00	22.85	V
13026.00	-47.42	10.59	13.54	-44.47	-25.00	19.47	H
15570.00	-44.21	11.50	13.70	-42.01	-25.00	17.01	V
16929.00	-42.61	12.11	13.77	-40.95	-25.00	15.95	V

5G NR NSA LTE B5+n38, 5MHz,+20MHz, QPSK, Channel 522000

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5222.01	-55.08	6.99	10.21	-51.86	-25.00	26.86	V
7808.01	-54.10	8.30	12.45	-49.95	-25.00	24.95	V
10465.01	-51.29	9.70	13.09	-47.90	-25.00	22.90	V
13076.00	-47.71	10.82	13.61	-44.92	-25.00	19.92	H
15650.00	-44.49	11.55	13.70	-42.34	-25.00	17.34	H
16968.00	-42.79	12.25	13.79	-41.25	-25.00	16.25	H

UT35a with AE9,AE3 and AE5, Ant 0(LTE)+Ant 6(NR)
5G NR NSA LTE B26+n41, 5MHz+100MHz, QPSK,Channel 509202

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5082.01	-55.55	6.72	10.01	-52.26	-25.00	27.26	V
7628.01	-54.09	8.10	12.30	-49.89	-25.00	24.89	V
10180.01	-51.74	9.33	12.97	-48.10	-25.00	23.10	H
12756.00	-48.54	10.56	13.35	-45.75	-25.00	20.75	V
15252.00	-45.08	11.34	13.85	-42.57	-25.00	17.57	H
17834.00	-44.60	12.78	15.37	-42.01	-25.00	17.01	H

5G NR NSA LTE B26+n41, 5MHz+100MHz, QPSK, Channel 518598

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5194.01	-55.57	6.95	10.17	-52.35	-25.00	27.35	V
7790.01	-53.99	8.30	12.43	-49.86	-25.00	24.86	H
10395.01	-50.93	9.79	13.06	-47.66	-25.00	22.66	V
12982.00	-48.92	10.47	13.49	-45.90	-25.00	20.90	H
15568.00	-44.70	11.50	13.70	-42.50	-25.00	17.50	H
16884.00	-41.59	12.02	13.75	-39.86	-25.00	14.86	H

5G NR NSA LTE B26+n41, 5MHz+100MHz, QPSK, Channel 528000

Frequency (MHz)	P _{Mea} (dBm)	Path Loss(dB)	Antenna Gain(dBi)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5269.01	-56.07	6.99	10.28	-52.78	-25.00	27.78	V
7905.01	-53.50	8.42	12.52	-49.40	-25.00	24.40	V
10589.00	-51.43	9.32	13.12	-47.63	-25.00	22.63	V
13191.00	-48.24	10.54	13.77	-45.01	-25.00	20.01	V
15862.00	-43.63	11.63	13.70	-41.56	-25.00	16.56	H
17148.00	-43.80	12.52	14.13	-42.19	-25.00	17.19	H

Note1:The measurement results showed here are worst cases.

Note2: The maximum value of expanded measurement uncertainty for this test item is $U = 5.16$ dB, $k = 2$.

A.3 Frequency Stability

A.3.1 Method of Measurement

Frequency stability is a measure of the frequency drift due to temperature and supply voltage variations, with reference to the frequency measured at +20 °C and rated supply voltage. Two reference points are established at the applicable unwanted emissions limit using a RBW equal to the RBW required by the unwanted emissions specification of the applicable regulatory standard. These reference points measured using the lowest and highest channel of operation shall be identified as F_L and F_H respectively.

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a “call mode”. This is accomplished with the use of UXM.

1. Measure the carrier frequency at room temperature.
2. Subject the EUT to overnight soak at -30°C.
3. With the EUT, powered via nominal voltage, connected to the UXM, and in a simulated call on middle channel for each NR band, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
4. Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
5. Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments re-measuring carrier frequency at each voltage. Pause at nominal voltage for 1.5 hours unpowered, to allow any self-heating to stabilize, before continuing.
6. Subject the EUT to overnight soak at +50°C.
7. With the EUT, powered via nominal voltage, connected to the UXM and in a simulated call on the center channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
8. Repeat the above measurements at 10 °C increments from +50°C to -30°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
9. At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure.

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. As this transceiver is considered "Hand carried, battery powered equipment" Section 2.1055(d)(2) applies. This requires that the lower voltage for frequency stability testing be specified by the manufacturer. This transceiver is specified to operate with an input voltage of the lower, higher and nominal voltage. Operation above or below these voltage limits is prohibited by transceiver software in order to prevent improper operation as well as to protect components from overstress.

A.3.2 Measurement results

n7-ANT3

Frequency Error vs Voltage

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.87	2500.280	2568.640		
50				-3.10	0.0012
40				-3.60	0.0014
30				-0.90	0.0004
10				0.70	0.0003
0				-1.60	0.0006
-10				1.60	0.0006
-20				4.60	0.0018
-30				2.50	0.0010

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	2500.280	2568.640	-0.10	0.0000
4.45				3.80	0.0015

LTE Band 5+NR n38-ANT3

Frequency Error vs Voltage

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.87	2570.560	2619.000		
50				-16.10	0.0062
40				-11.40	0.0044
30				-4.90	0.0019
10				-8.90	0.0034
0				-15.30	0.0059
-10				-20.20	0.0078
-20				-10.20	0.0039
-30				-7.30	0.0028

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	2570.560	2619.000	-6.10	0.0024
4.45				-1.60	0.0006

n41-ANT3
Frequency Error vs Voltage

Temperature(°C)	Voltage(V)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
20	3.87	2496.720	2688.160		
50				-12.10	0.0047
40				-5.60	0.0022
30				-1.70	0.0007
10				-11.90	0.0046
0				-11.90	0.0046
-10				-7.50	0.0029
-20				-9.40	0.0036
-30				-8.30	0.0032

Frequency Error vs Voltage

Voltage(V)	Temperature(°C)	FL(MHz)	FH(MHz)	Offset(Hz)	Frequency error(ppm)
3.6	20	2496.720	2688.160	-18.50	0.0071
4.45				-6.60	0.0025

A.4 Occupied Bandwidth

Occupied bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the mid frequencies frequency. The table below lists the measured 99% BW. Spectrum analyzer plots are included on the following pages.

The measurement method is from ANSI C63.26:

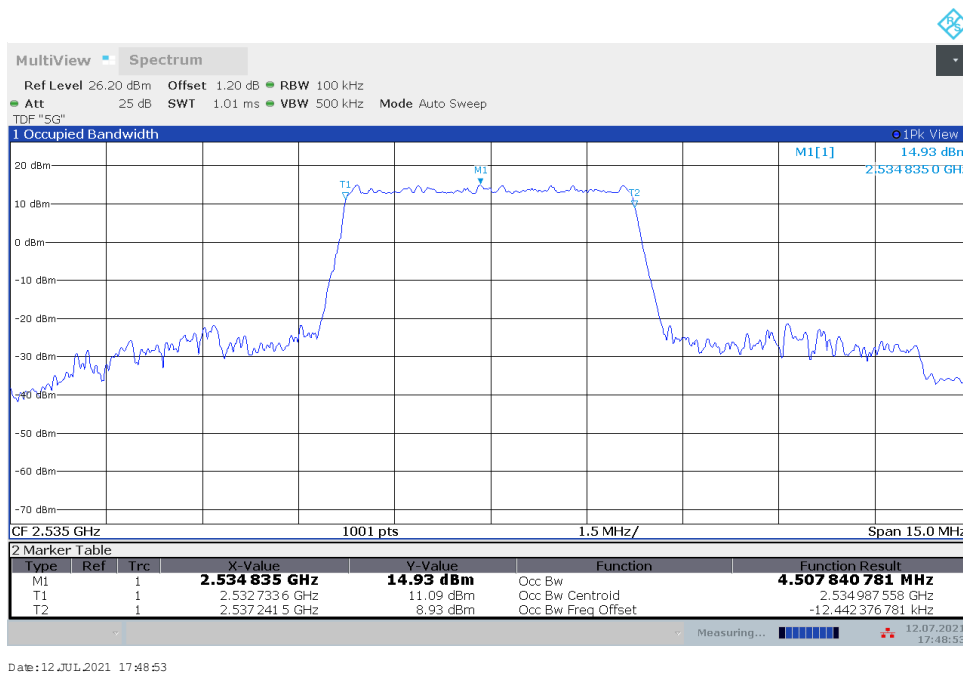
- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts.
- b) The nominal IF filter 3 dB bandwidth (RBW) shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times \text{RBW}$.
- c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation.
- d) Set the detection mode to peak, and the trace mode to max-hold.

n7-ANT3

n7,5MHz(99%)

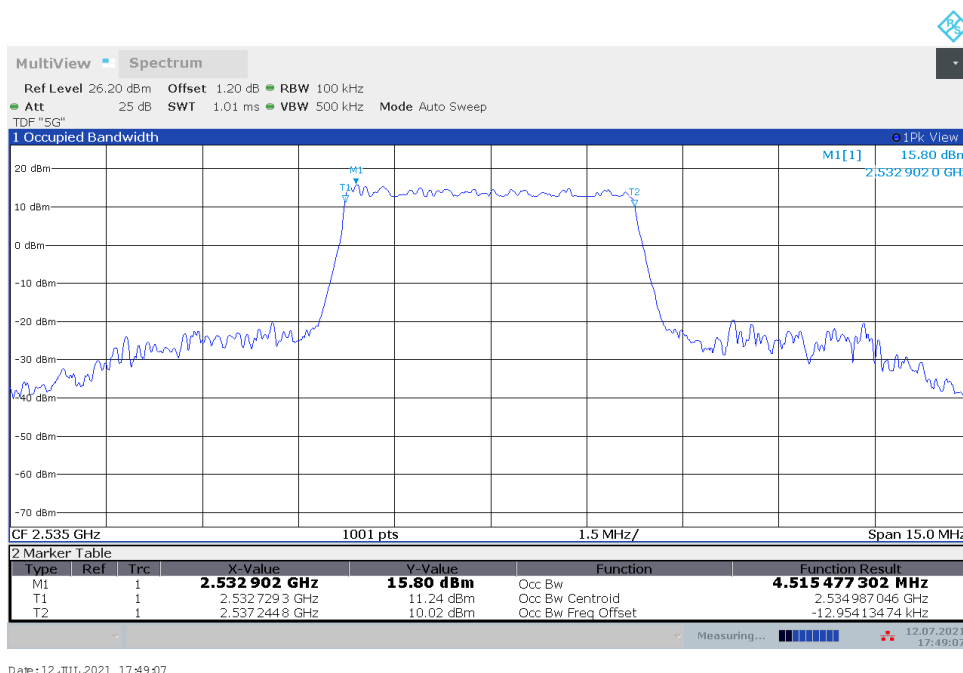
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2535	4.508	4.515

n7,5MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



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n7,5MHz Bandwidth,DFT-s-QPSK (99% BW)

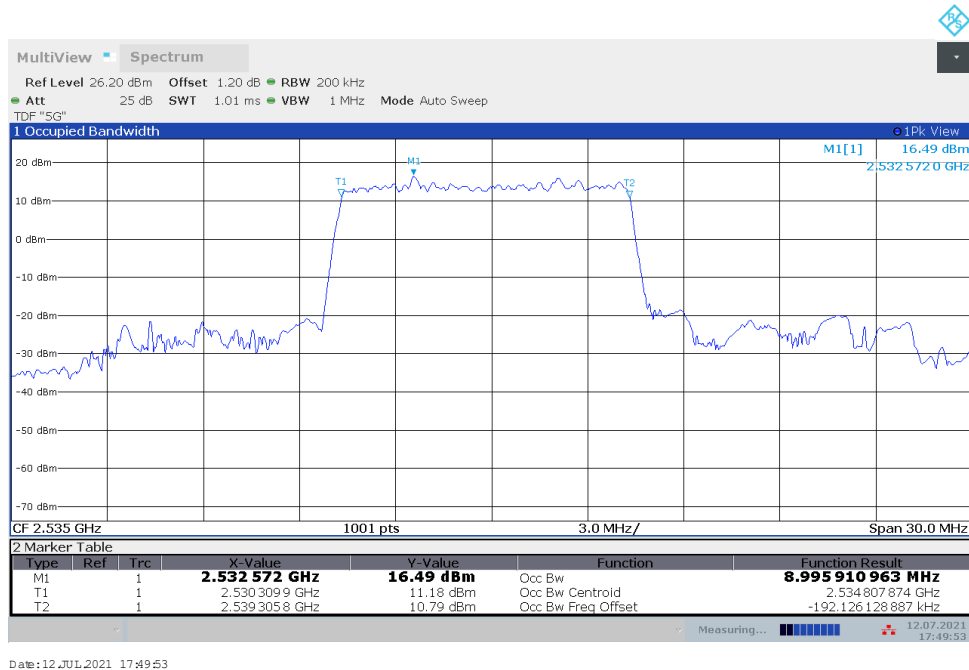


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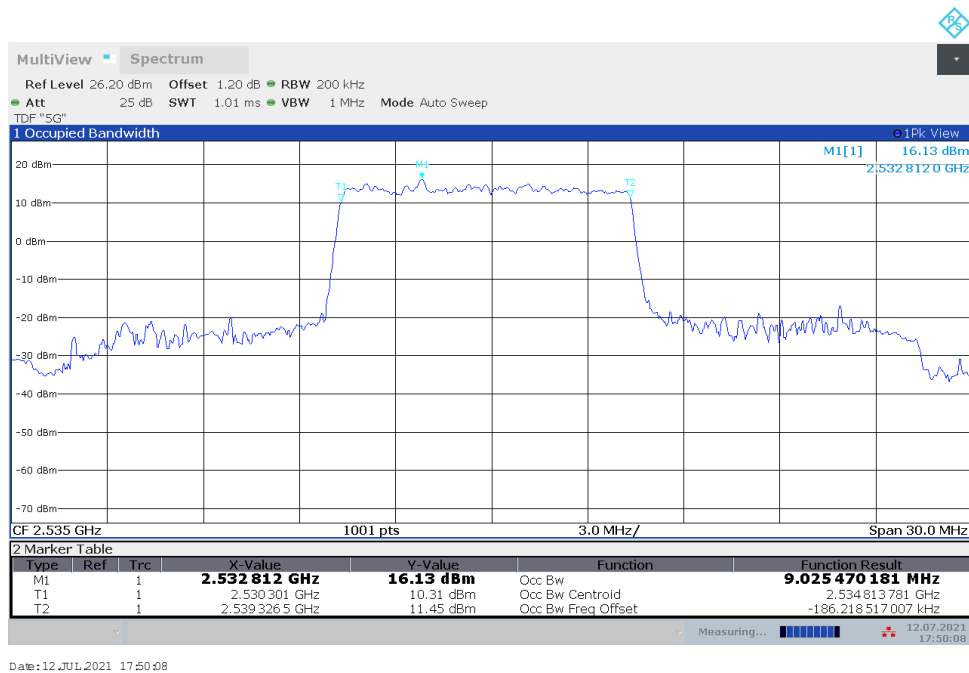
n7,10MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2535	8.996	9.025

n7,10MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



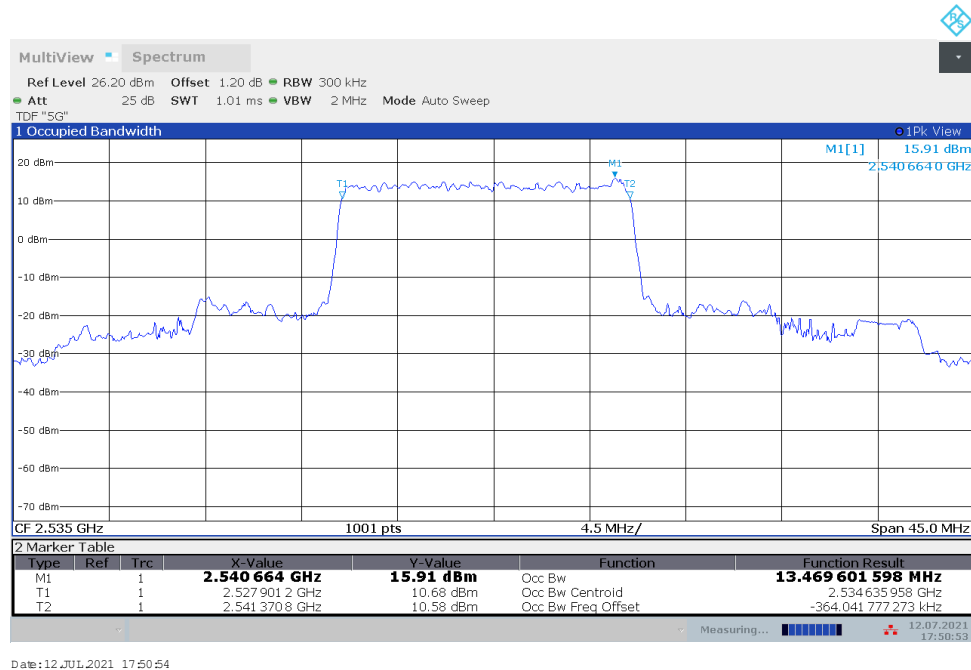
n7,10MHz Bandwidth,DFT-s-QPSK (99% BW)



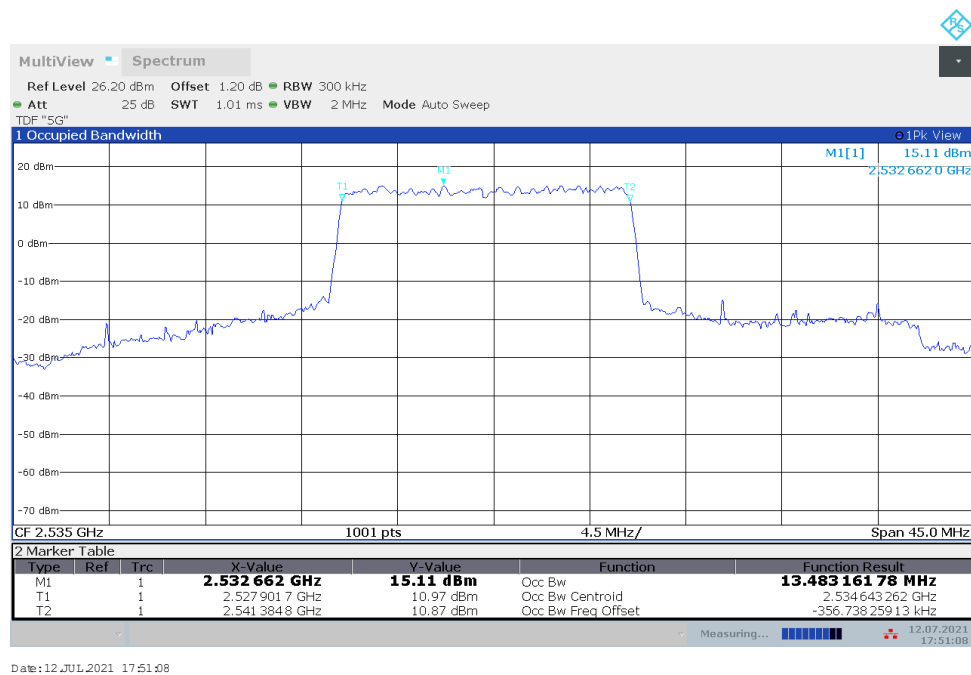
n7,15MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2535	13.470	13.483

n7,15MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



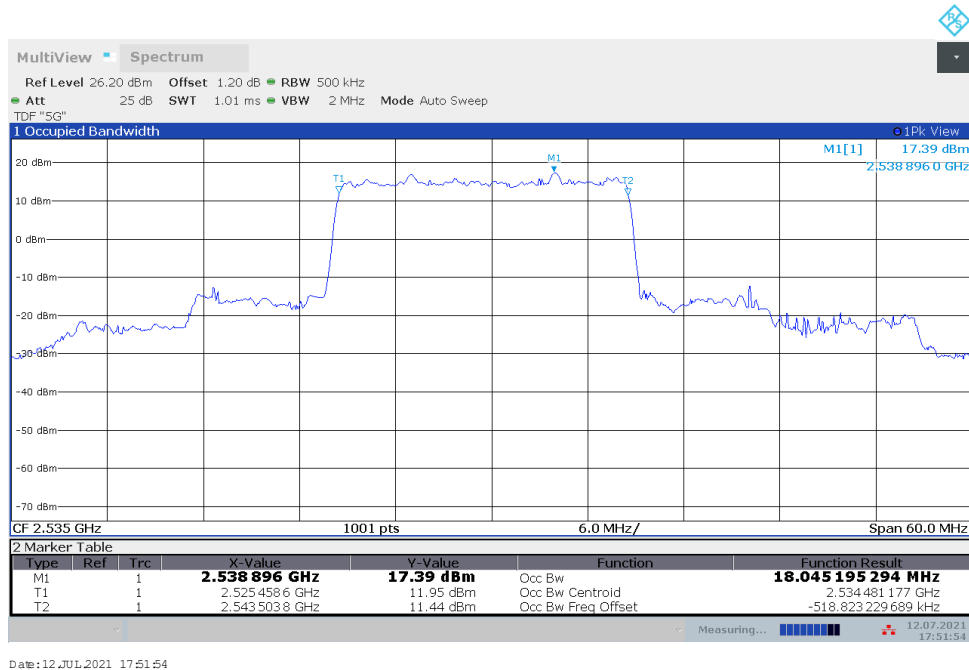
n7,15MHz Bandwidth,DFT-s-QPSK (99% BW)



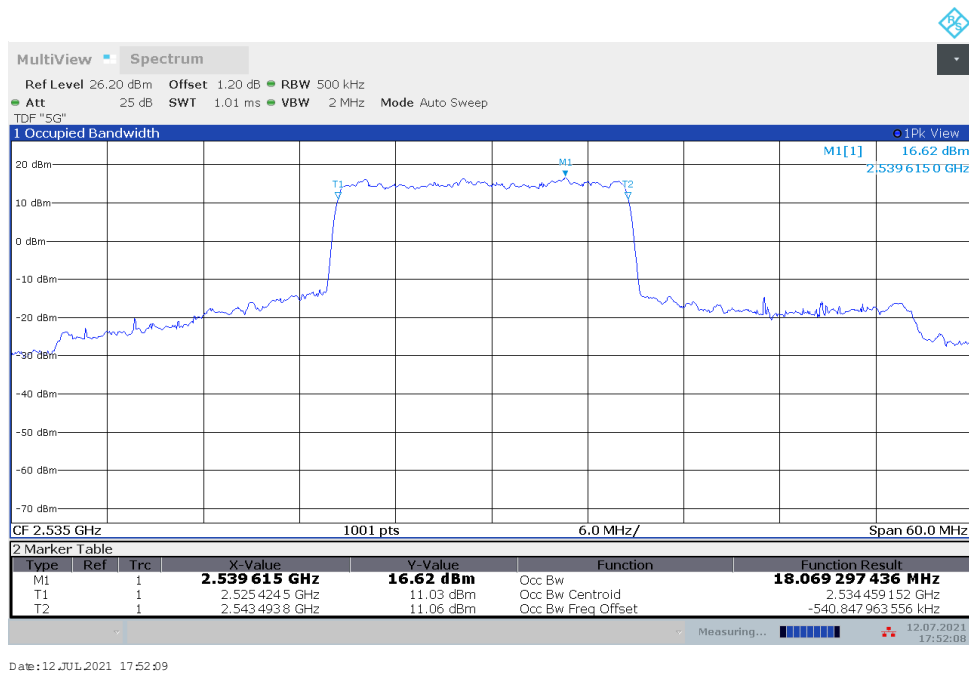
n7,20MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2535	18.045	18.069

n7,20MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



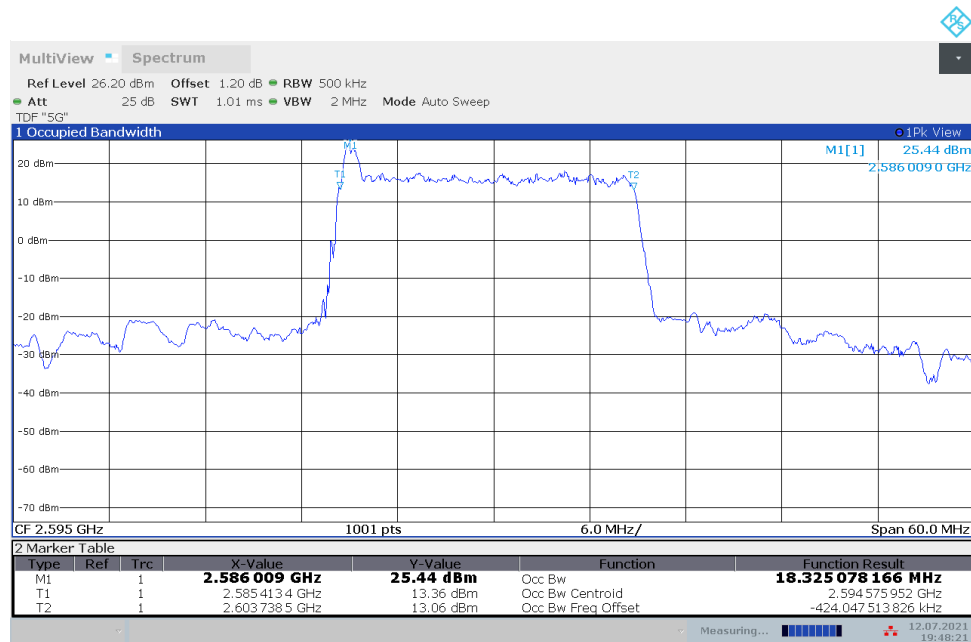
n7,20MHz Bandwidth,DFT-s-QPSK (99% BW)



LTE Band 5+NR n38-ANT3 n38,20MHz(99%)

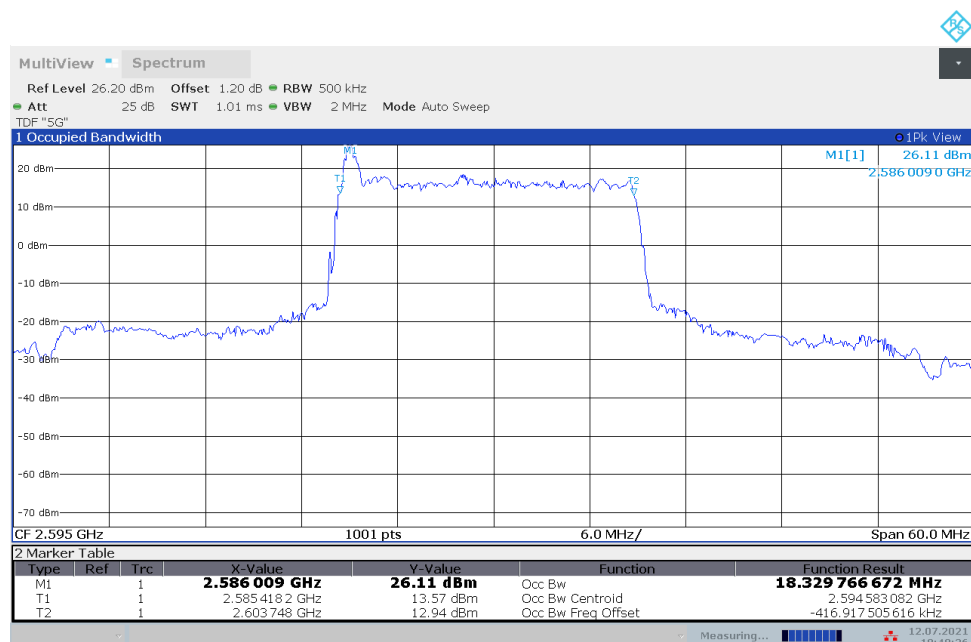
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2595	18.325	18.330

n38,20MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



Date: 12 JUL 2021 19:48:21

n38,20MHz Bandwidth,DFT-s-QPSK (99% BW)



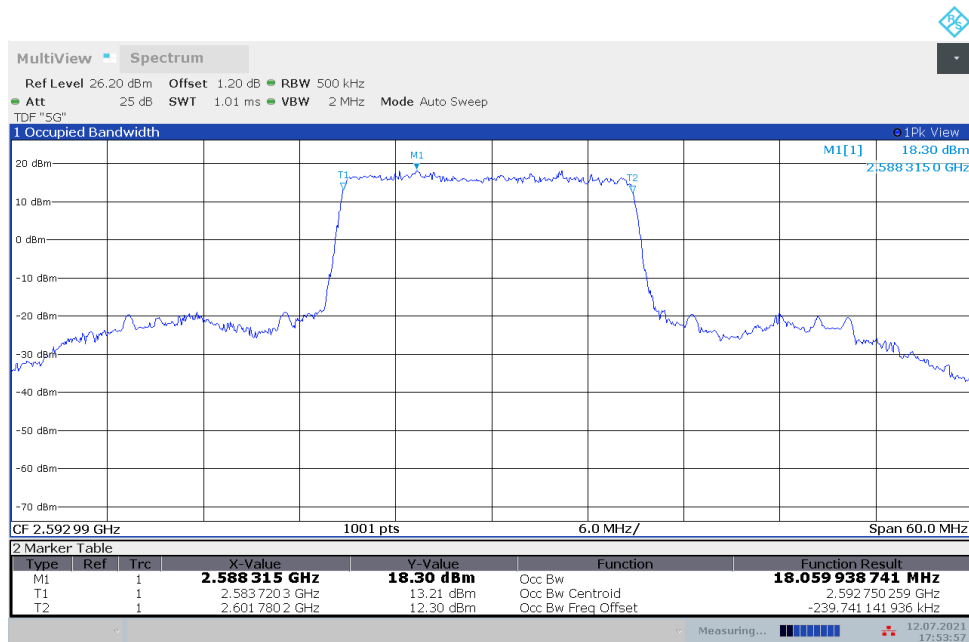
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n41-ANT3

n41,20MHz(99%)

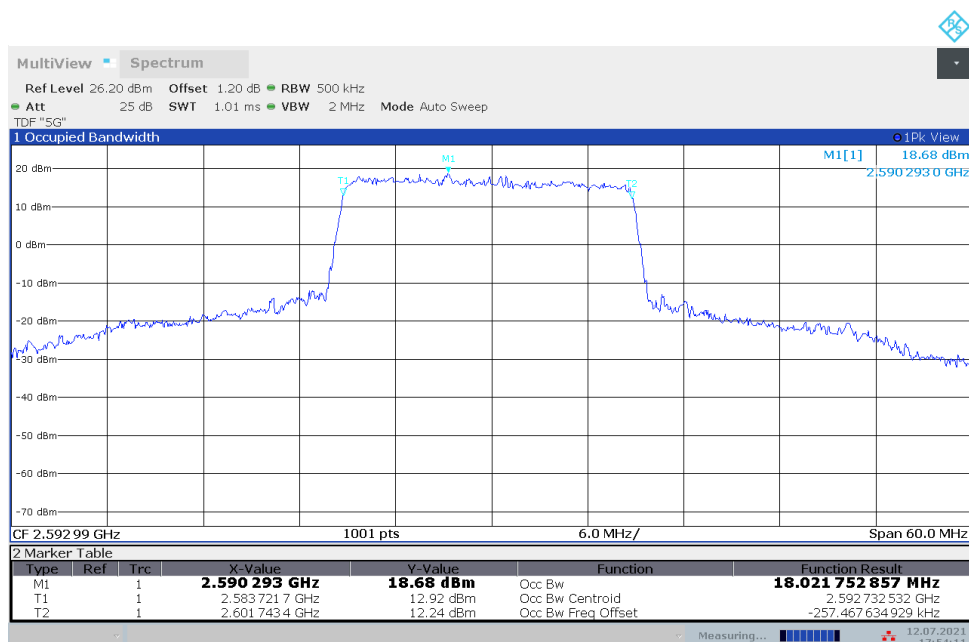
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	18.060	18.022

n41,20MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



Date: 12 JUL 2021 17:53:57

n41,20MHz Bandwidth,DFT-s-QPSK (99% BW)

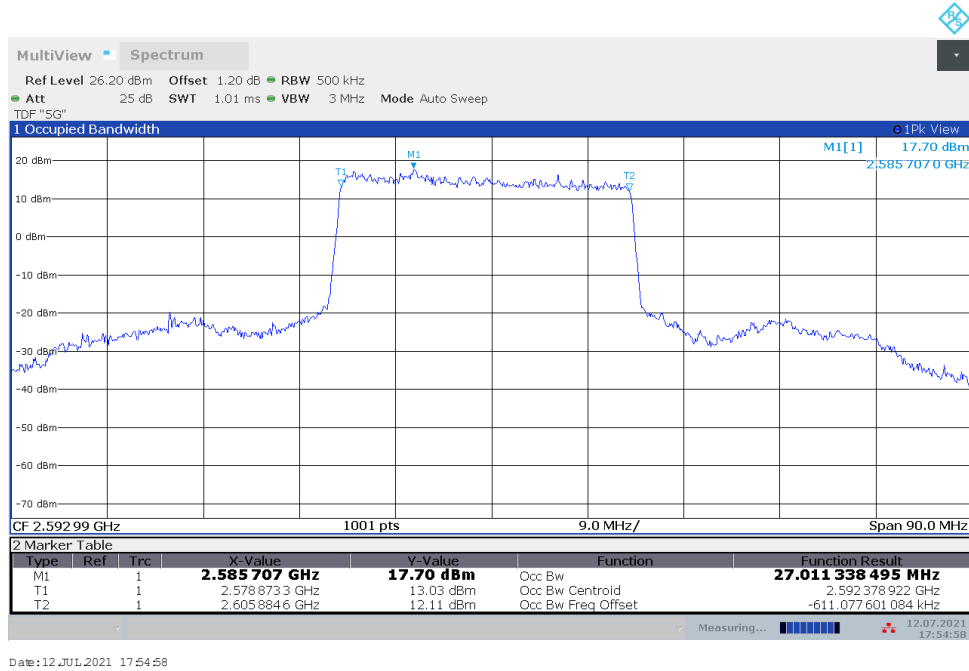


Date: 12 JUL 2021 17:54:12

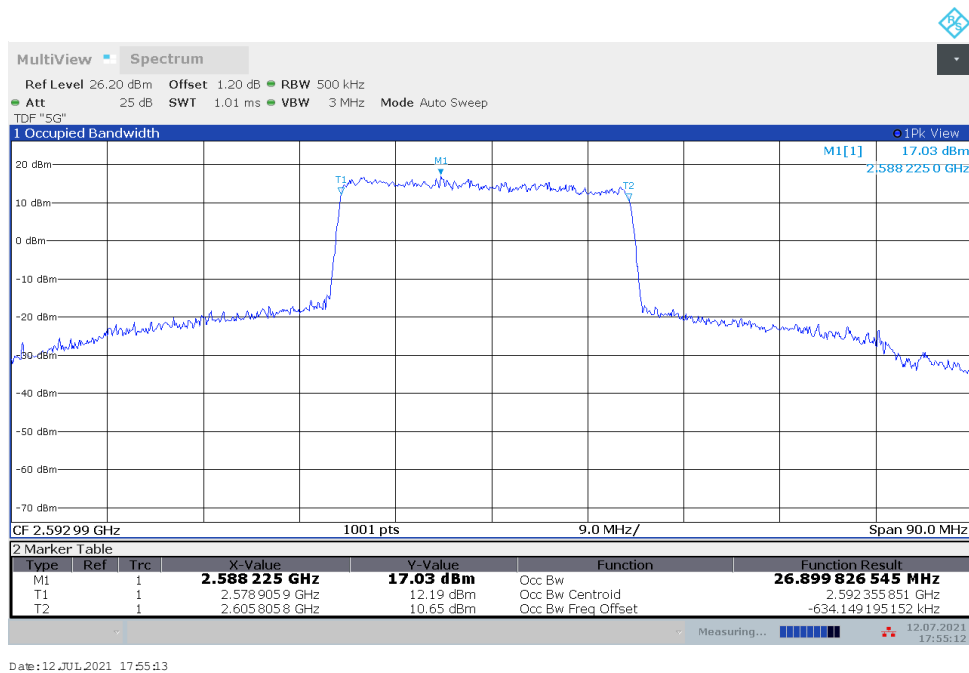
n41,30MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	27.011	26.900

n41,30MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



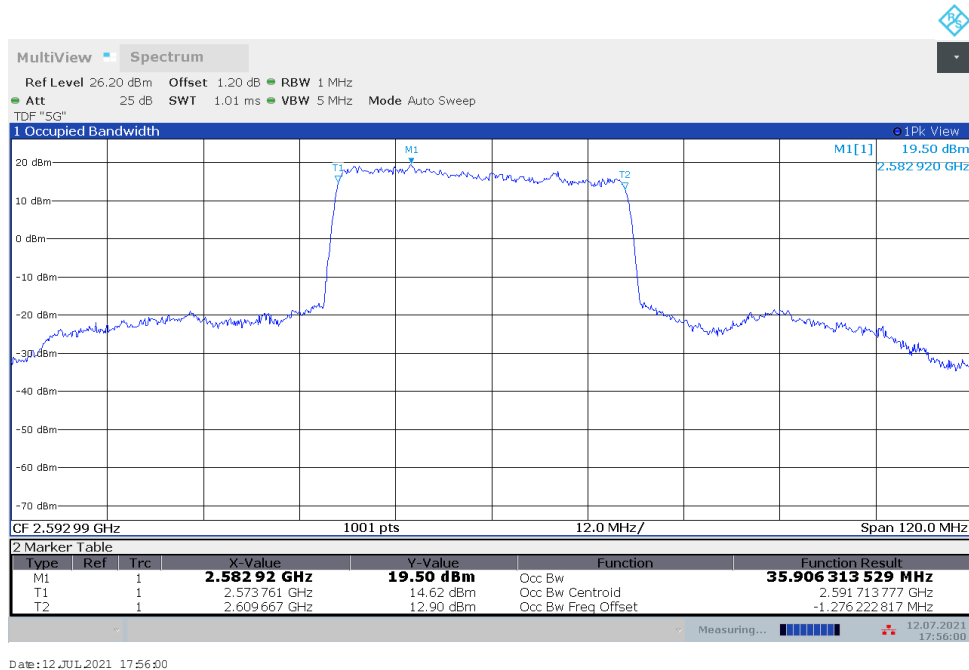
n41,30MHz Bandwidth,DFT-s-QPSK (99% BW)



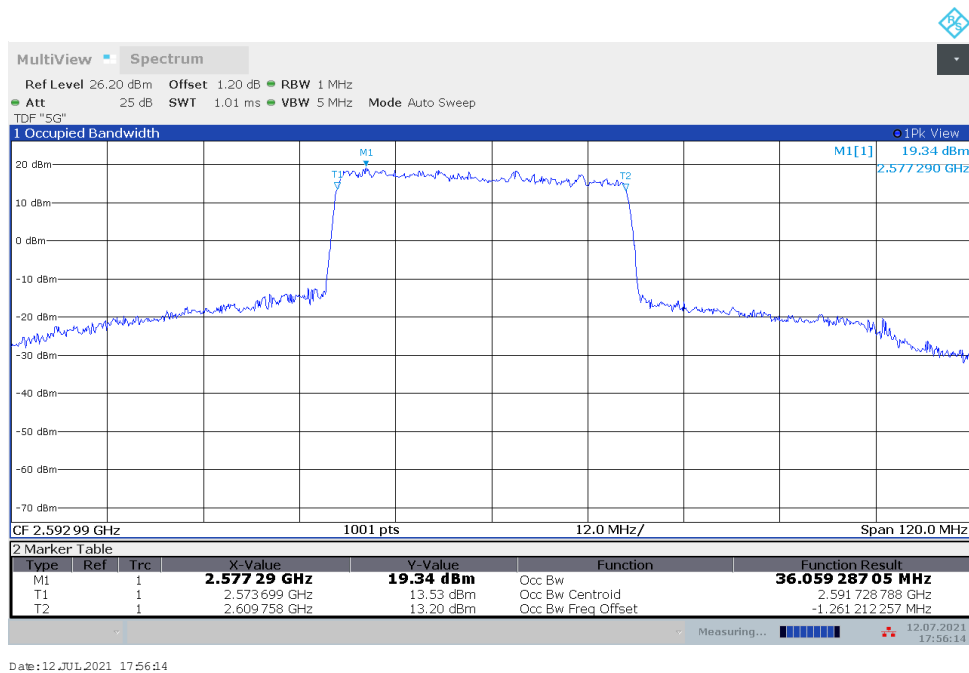
n41,40MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	35.906	36.059

n41,40MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



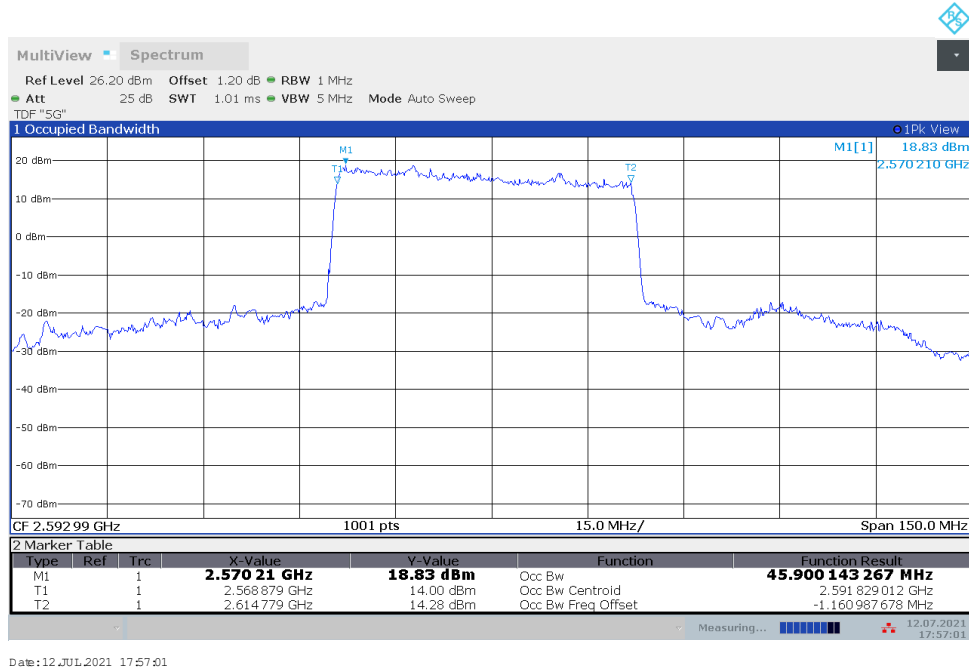
n41,40MHz Bandwidth,DFT-s-QPSK (99% BW)



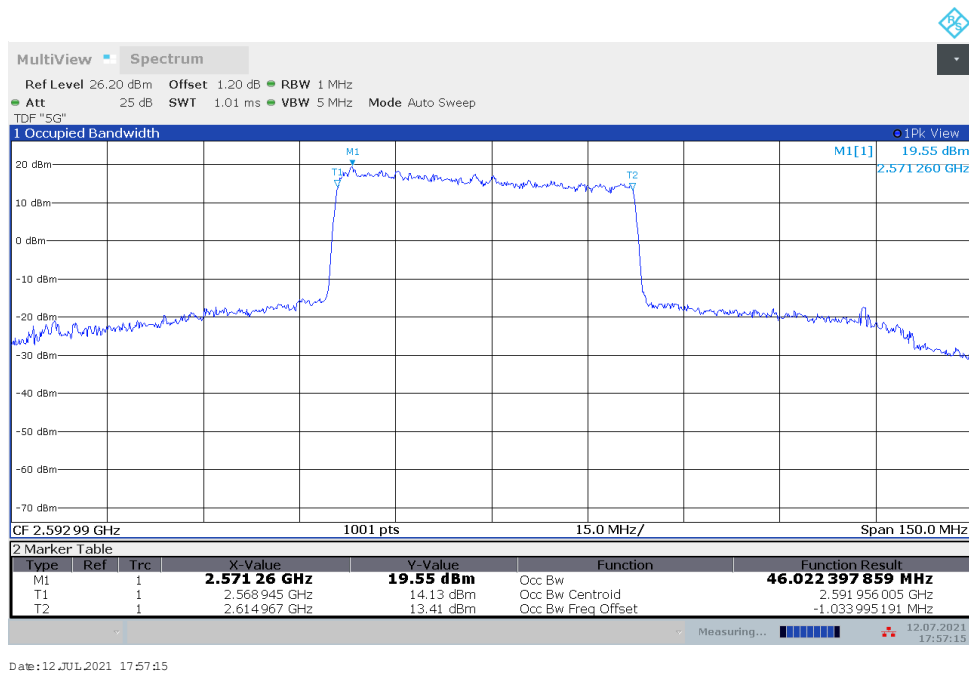
n41,50MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	45.900	46.022

n41,50MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



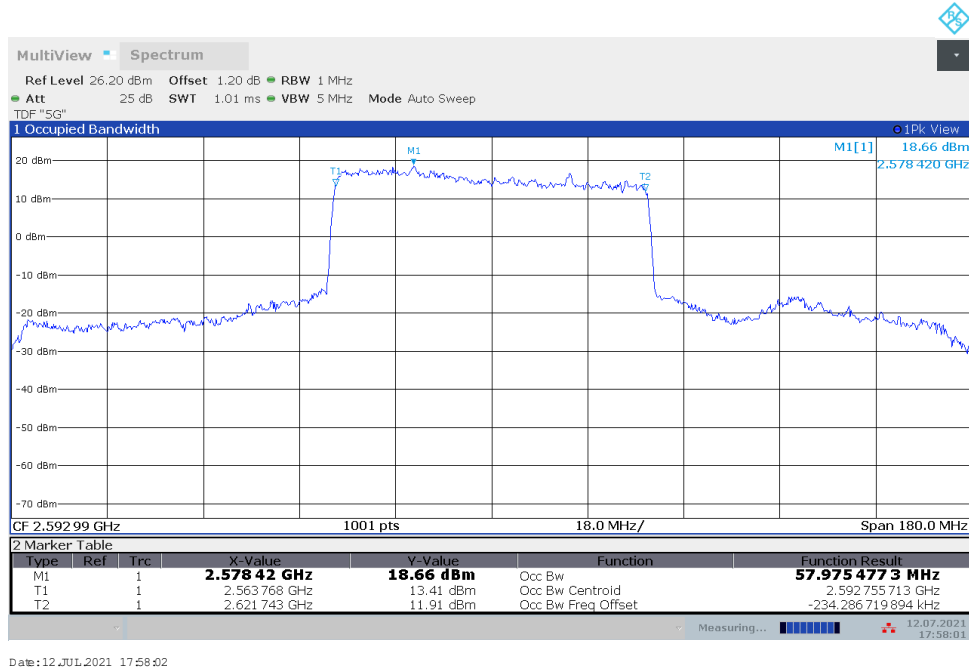
n41,50MHz Bandwidth,DFT-s-QPSK (99% BW)



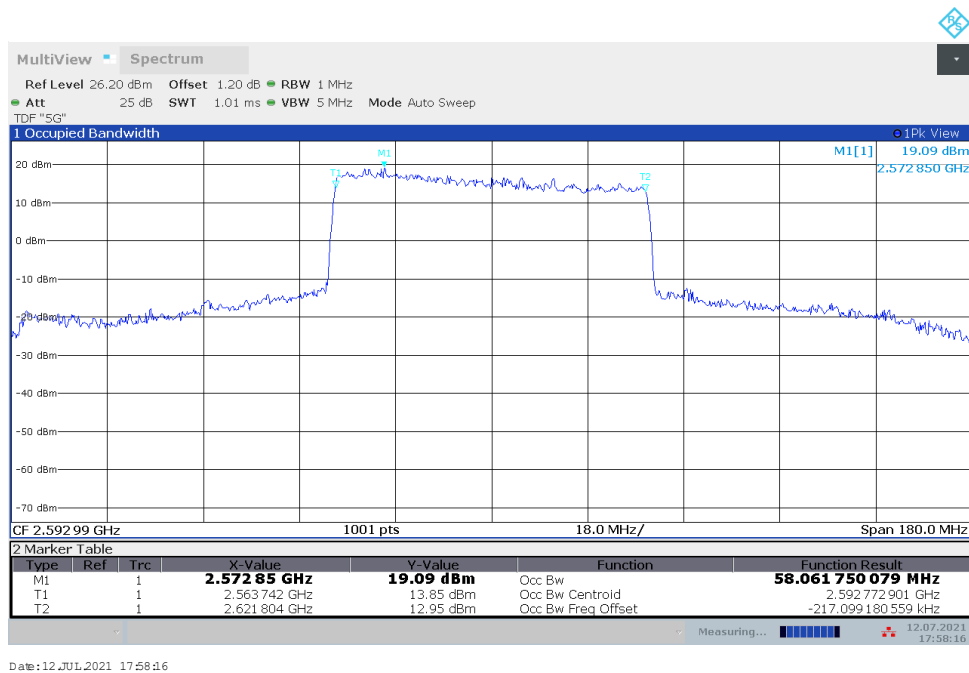
n41,60MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	57.975	58.062

n41,60MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



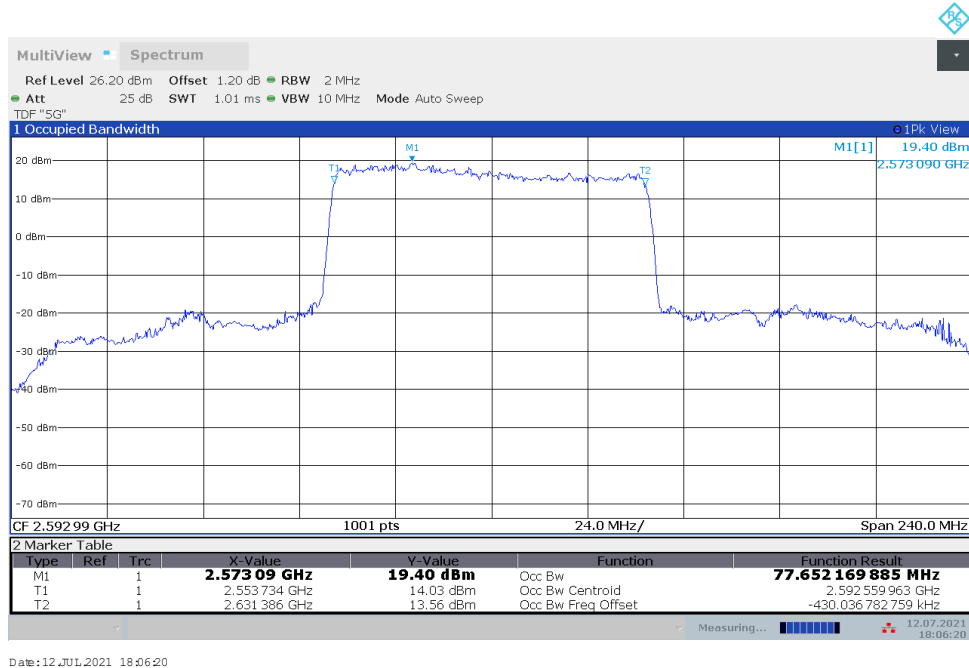
n41,60MHz Bandwidth,DFT-s-QPSK (99% BW)



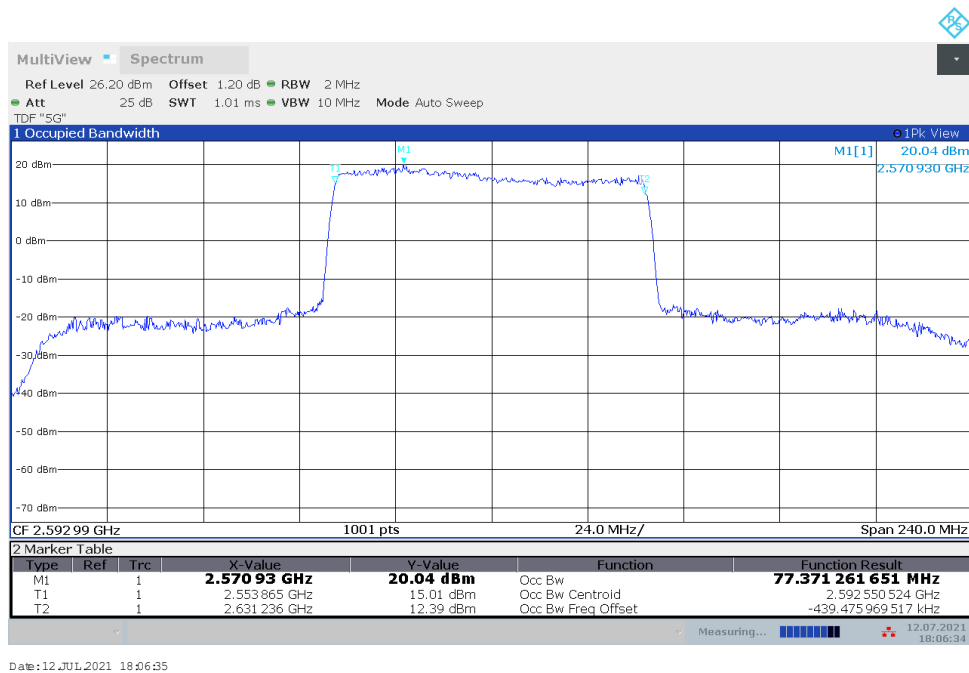
n41,80MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	77.652	77.371

n41,80MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



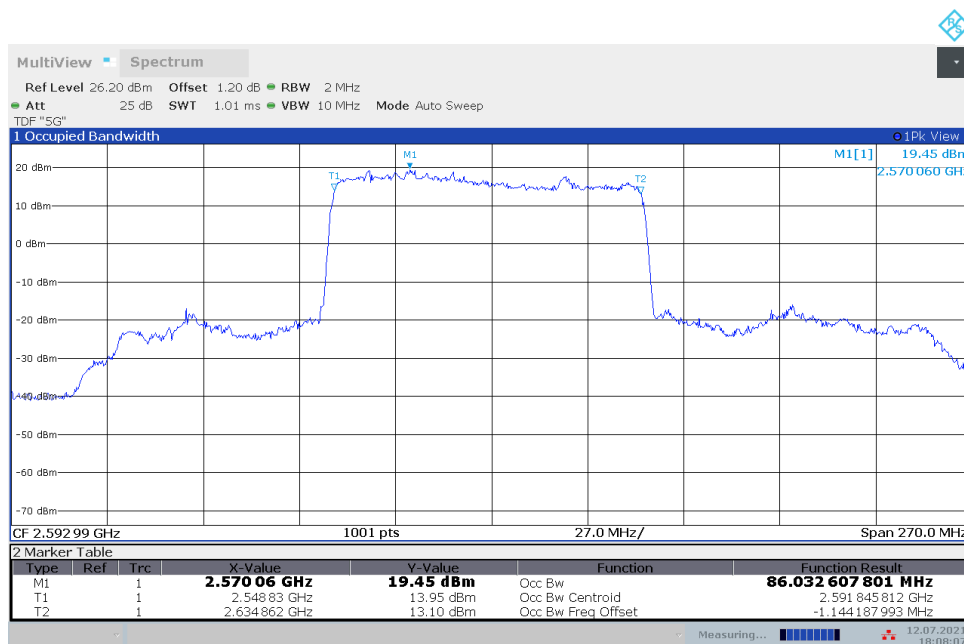
n41,80MHz Bandwidth,DFT-s-QPSK (99% BW)



n41,90MHz(99%)

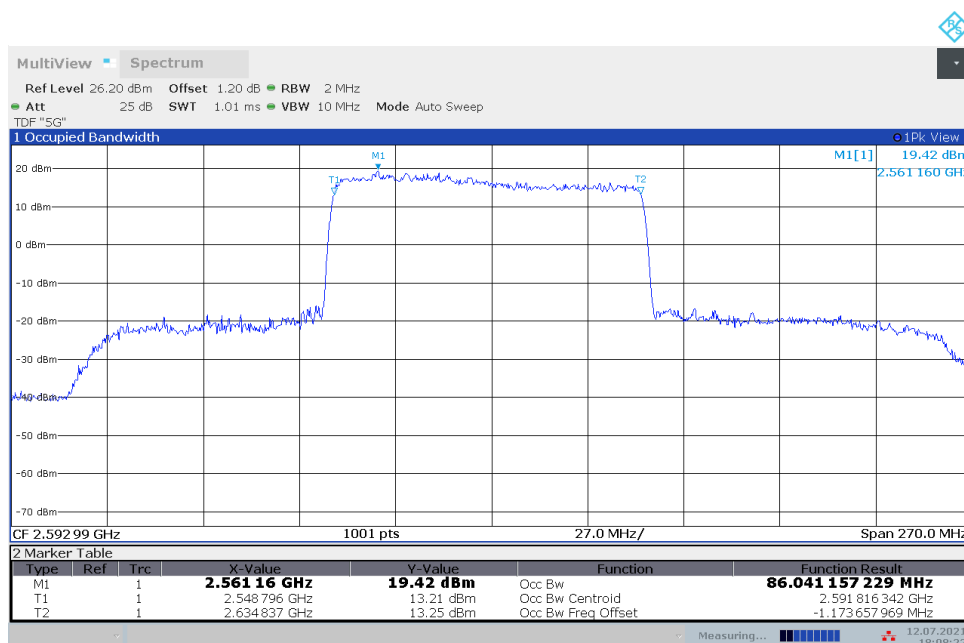
Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	86.033	86.041

n41,90MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



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n41,90MHz Bandwidth,DFT-s-QPSK (99% BW)

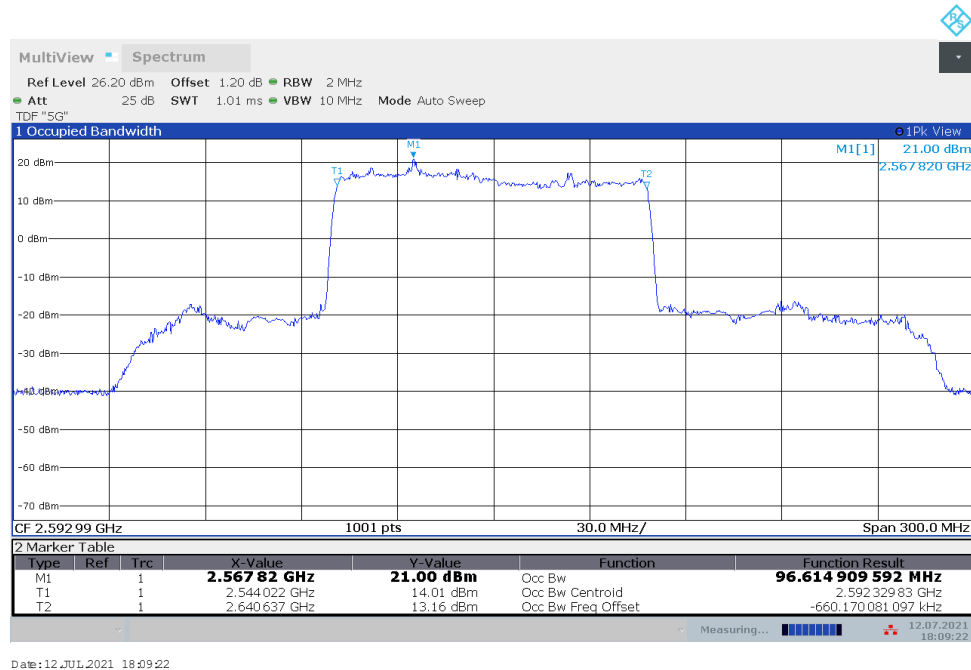


Date:12 JUL 2021 18:08:22

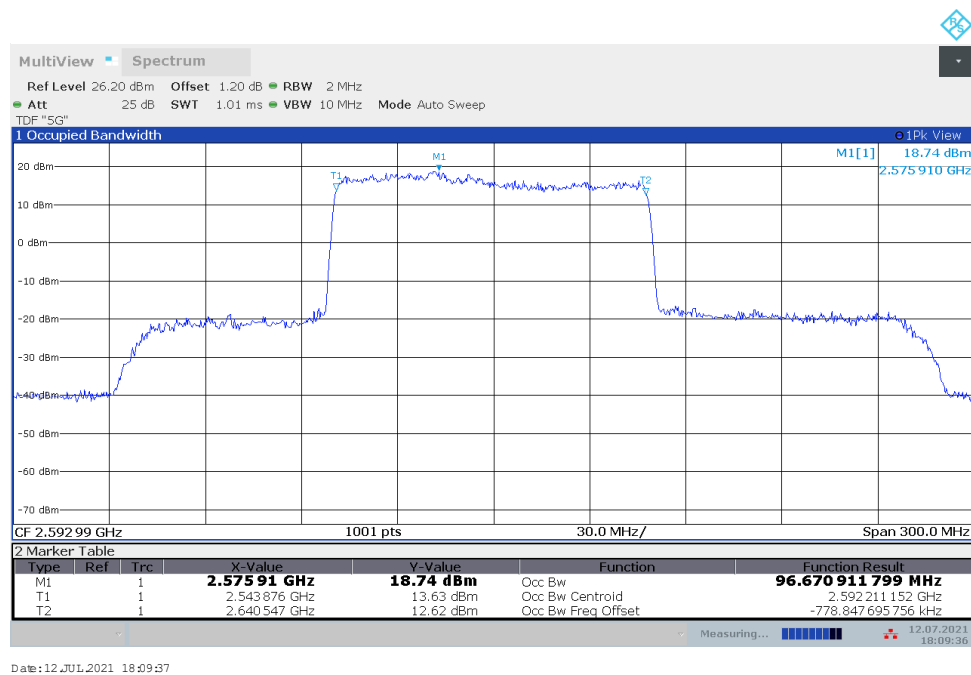
n41,100MHz(99%)

Frequency (MHz)	Occupied Bandwidth (99%) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	96.615	96.671

n41,100MHz Bandwidth,DFT-s-pi/2 BPSK (99% BW)



n41,100MHz Bandwidth,DFT-s-QPSK (99% BW)



A.5 Emission Bandwidth

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. Table below lists the measured -26dBc BW. Spectrum analyzer plots are included on the following pages.

The measurement method is from ANSI C63.26:

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
- b) The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times \text{RBW}$.
- c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation.
- d) The dynamic range of the spectrum analyzer at the selected RBW shall be more than 10 dB below the target “-X dB” requirement, i.e., if the requirement calls for measuring the -26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be at least 36 dB below the reference level.
- e) Set spectrum analyzer detection mode to peak, and the trace mode to max hold.

n7-ANT3

n7,5MHz(-26dBc)

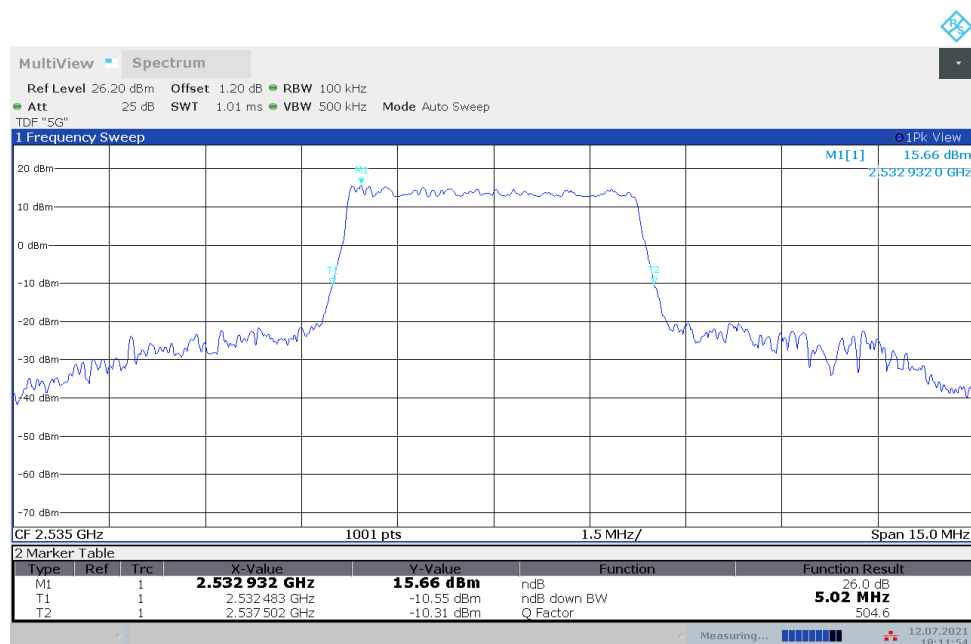
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2535	5.050	5.020

n7,5MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



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n7,5MHz Bandwidth,DFT-s-QPSK (-26dBc BW)

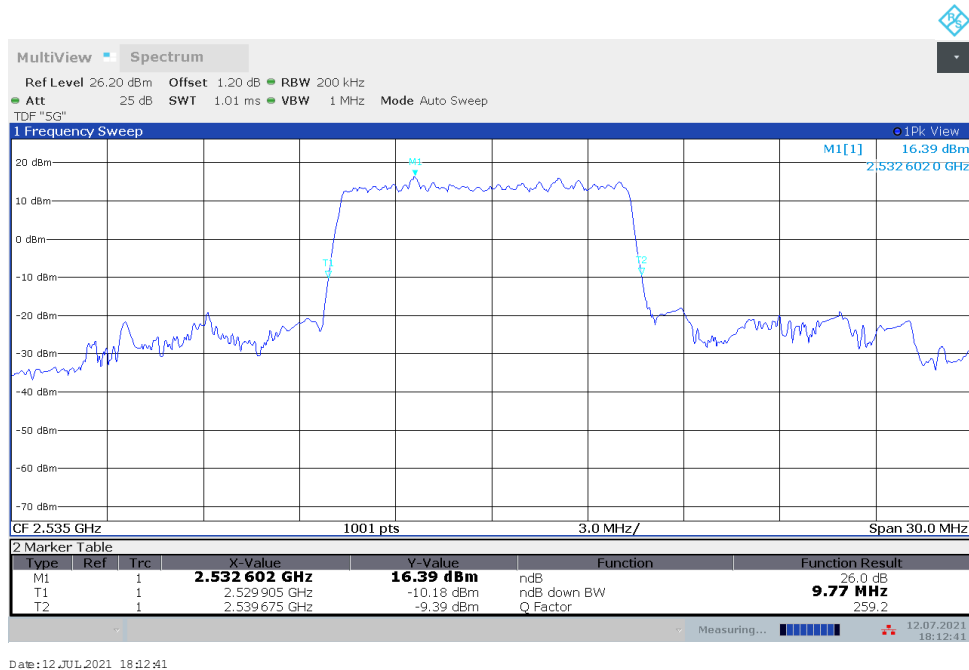


Date:12 JUL 2021 18:11:54

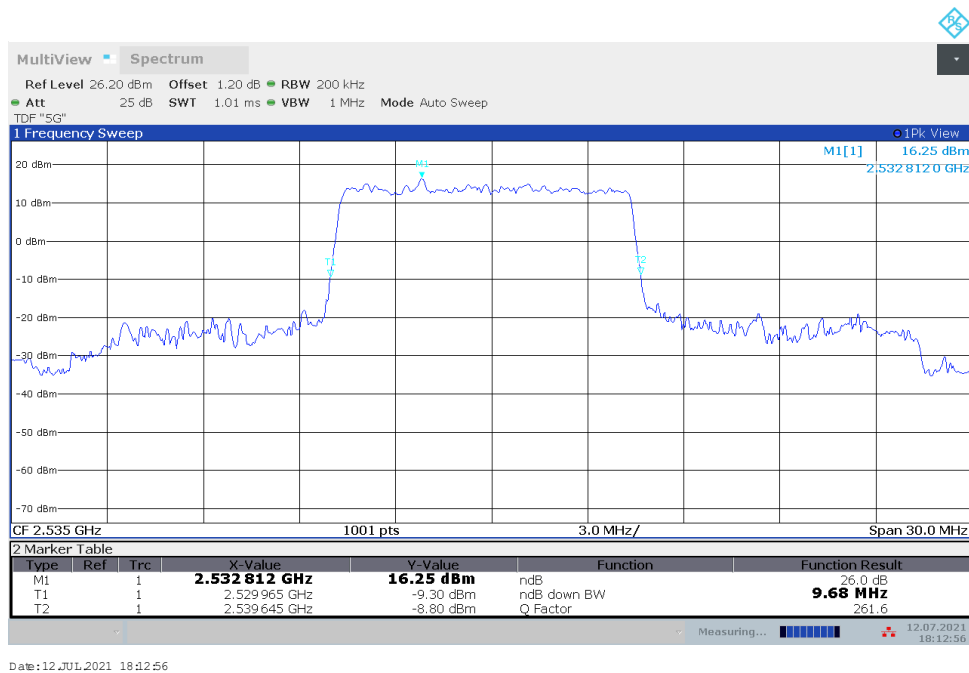
n7,10MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2535	9.770	9.680

n7,10MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n7,10MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



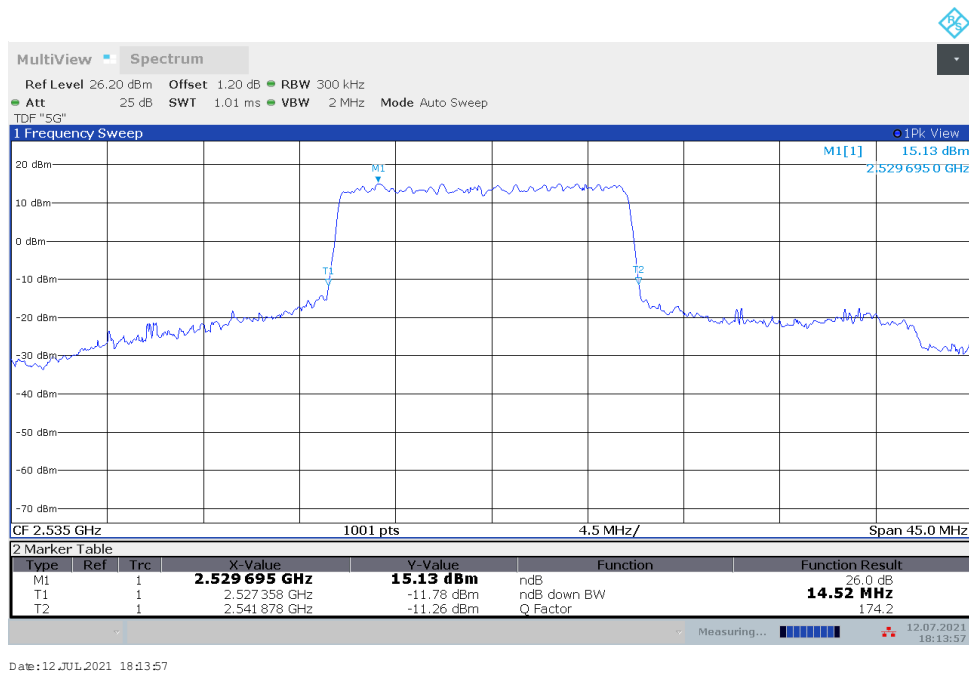
n7,15MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2535	14.476	14.520

n7,15MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



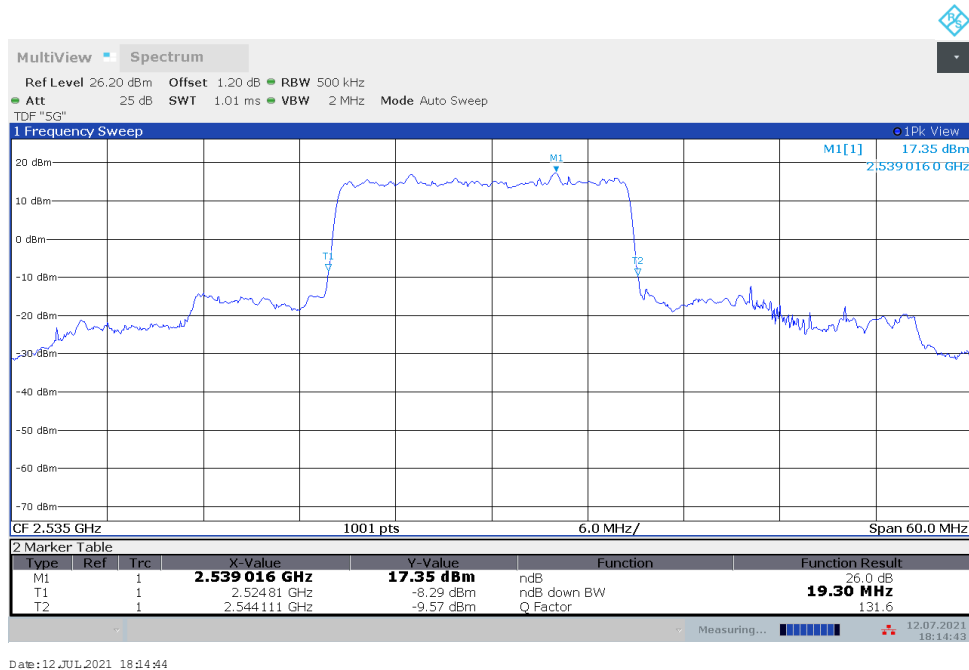
n7,15MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



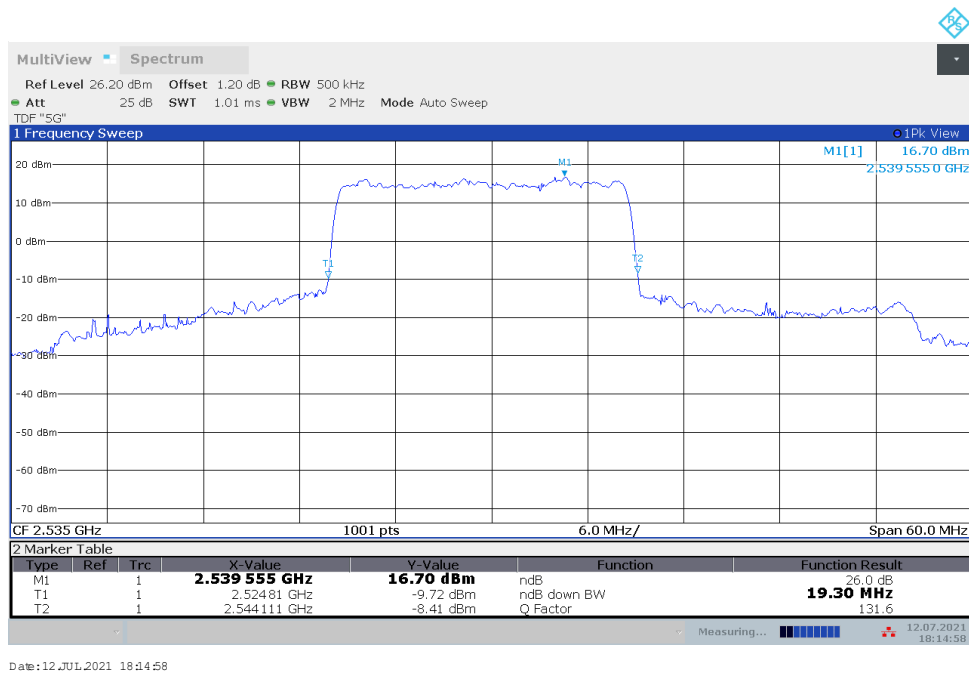
n7,20MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2535	19.301	19.301

n7,20MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n7,20MHz Bandwidth,DFT-s-QPSK (-26dBc BW)

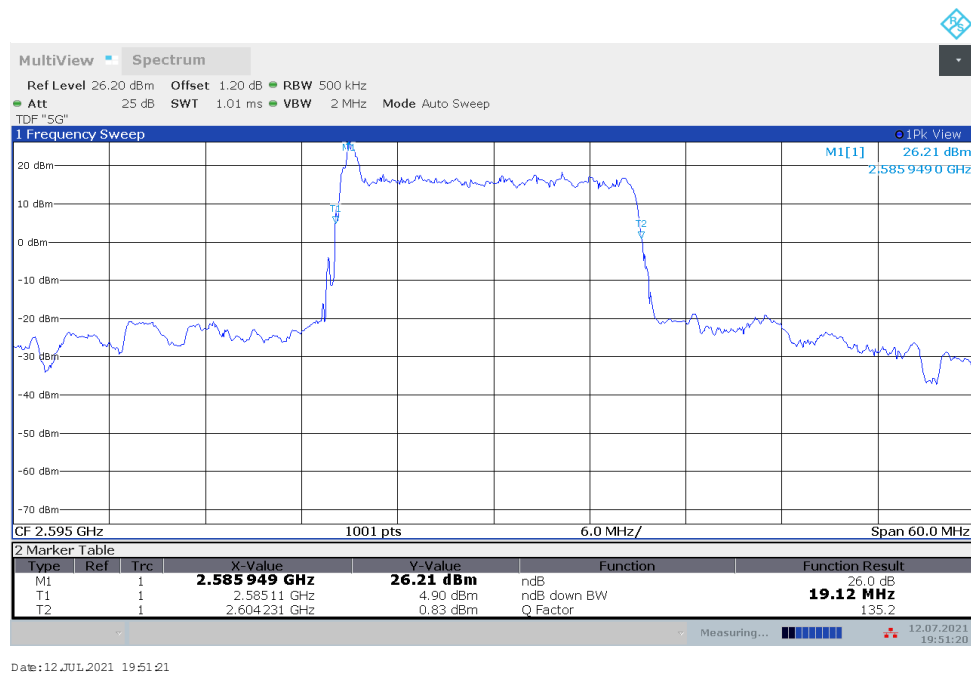


LTE Band 5+NR n38-ANT3

n38,20MHz(-26dBc)

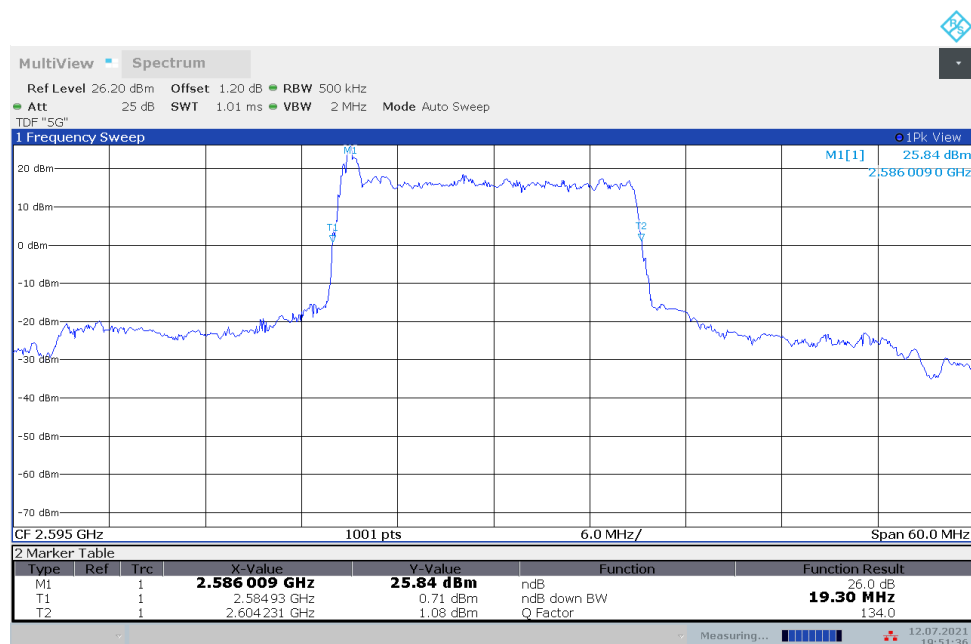
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2595	19.121	19.301

n38,20MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



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n38,20MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



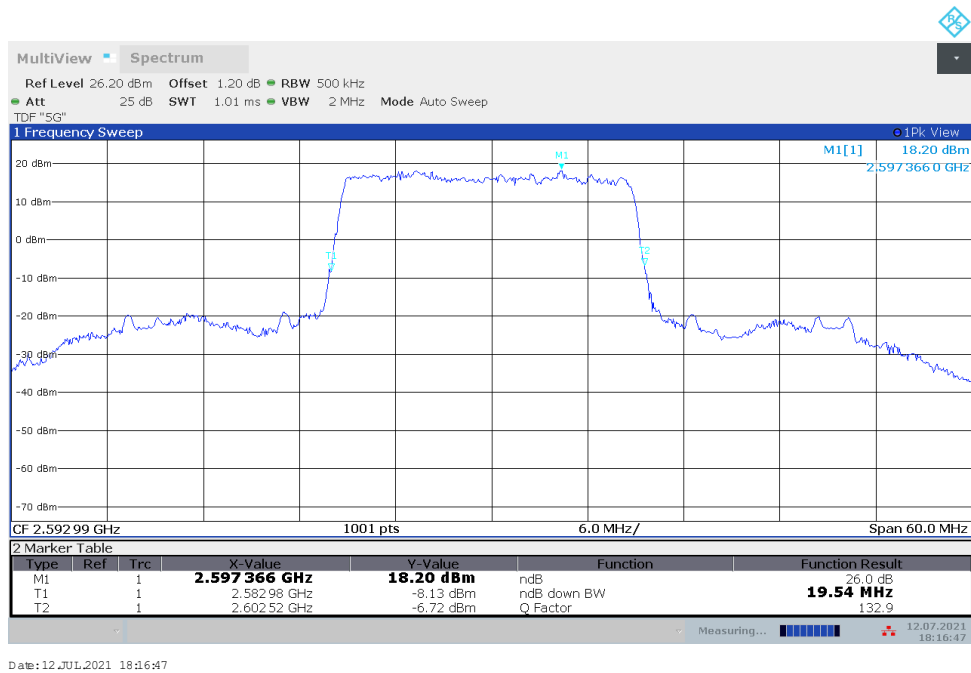
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n41-ANT3

n41,20MHz(-26dBc)

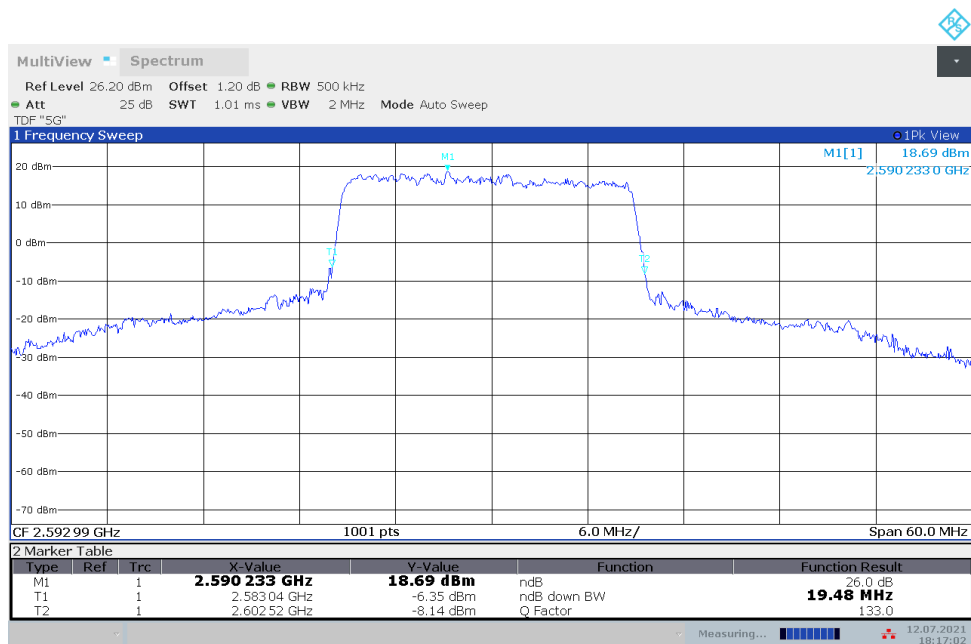
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	19.540	19.481

n41,20MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



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n41,20MHz Bandwidth,DFT-s-QPSK (-26dBc BW)

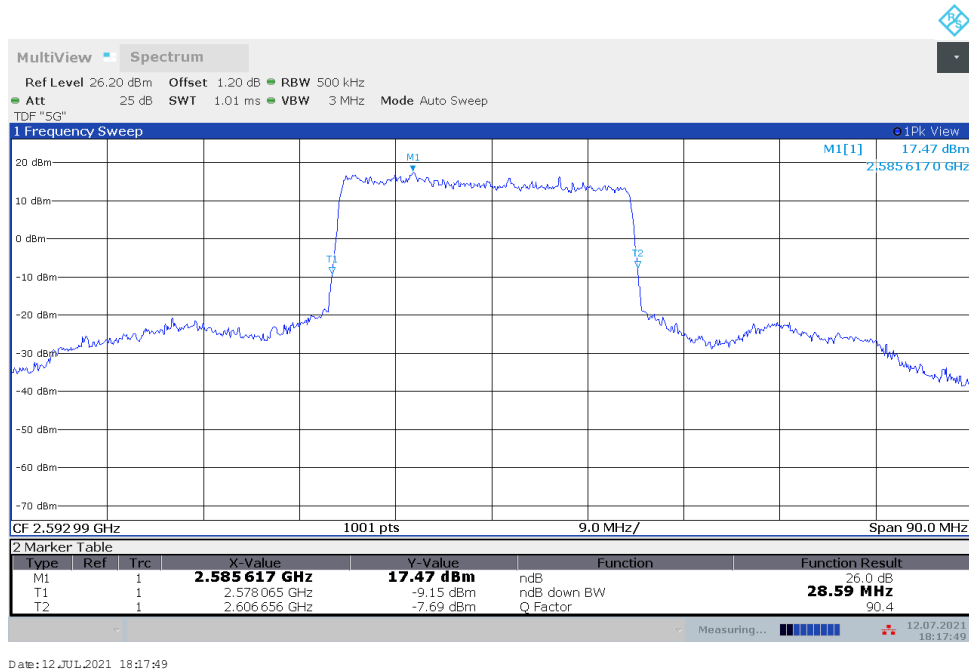


Date: 12 JUL 2021 18:17:02

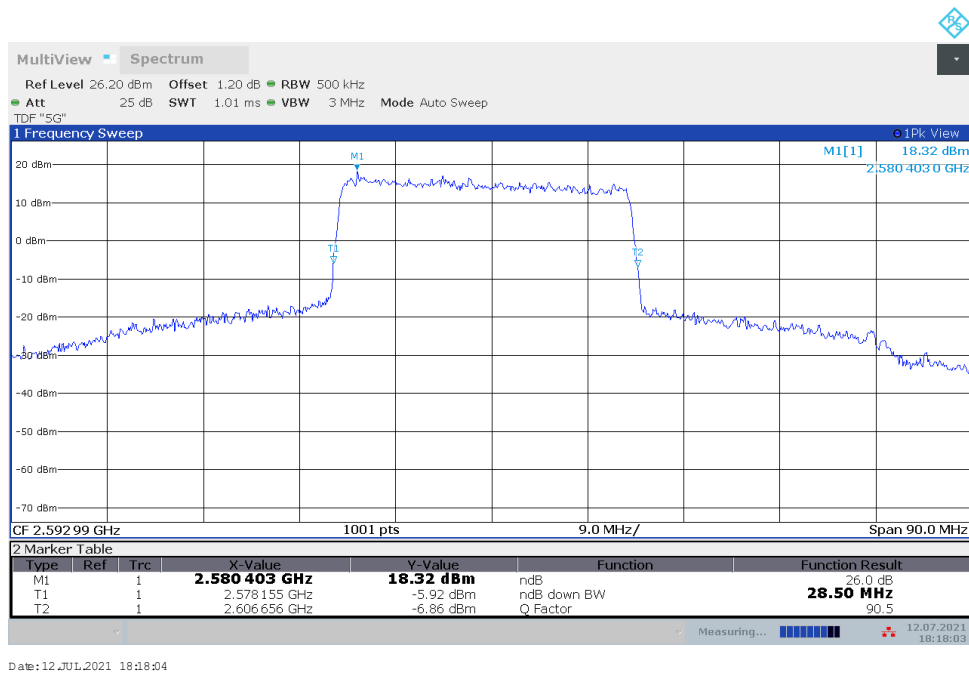
n41,30MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	28.591	28.501

n41,30MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



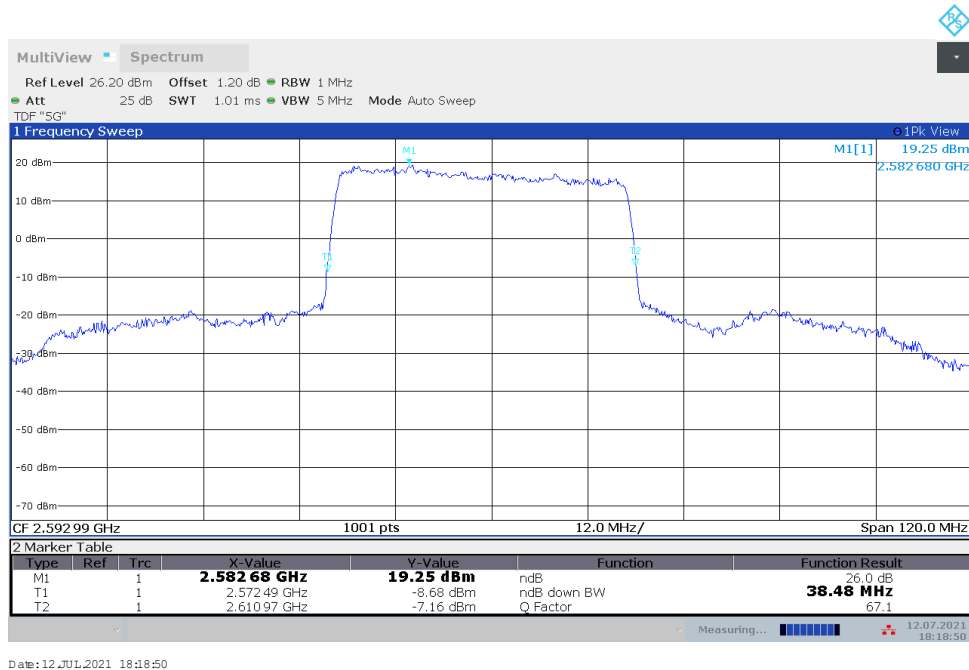
n41,30MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



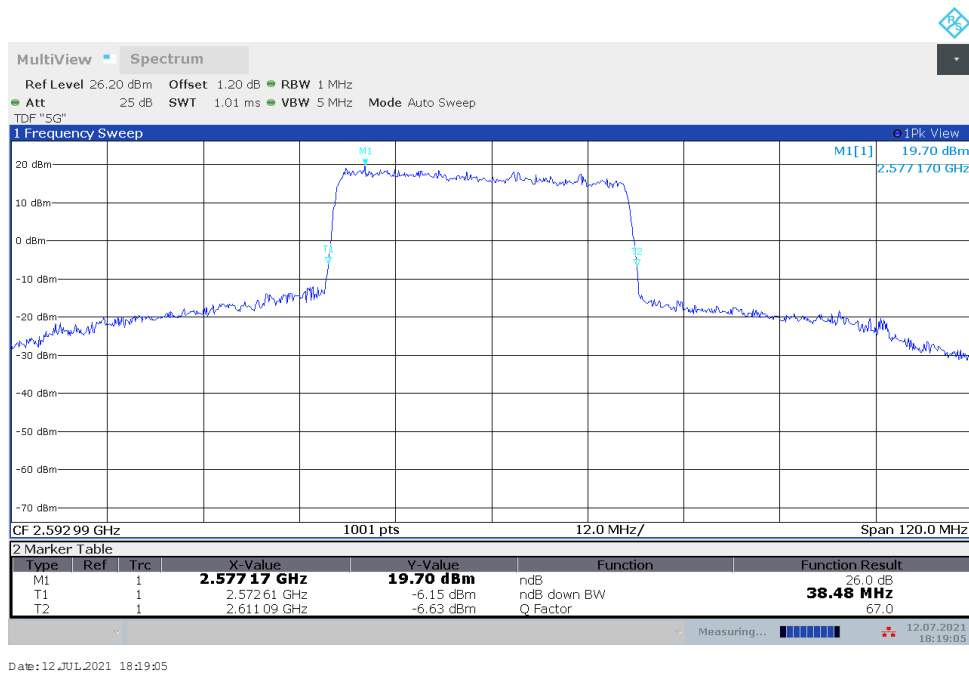
n41,40MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	38.480	38.480

n41,40MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



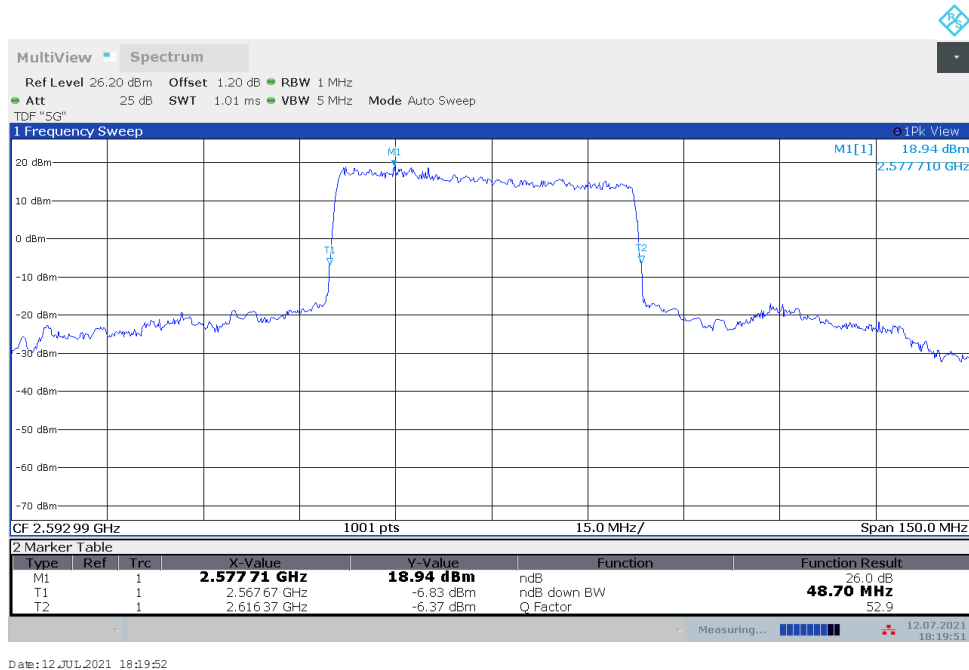
n41,40MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



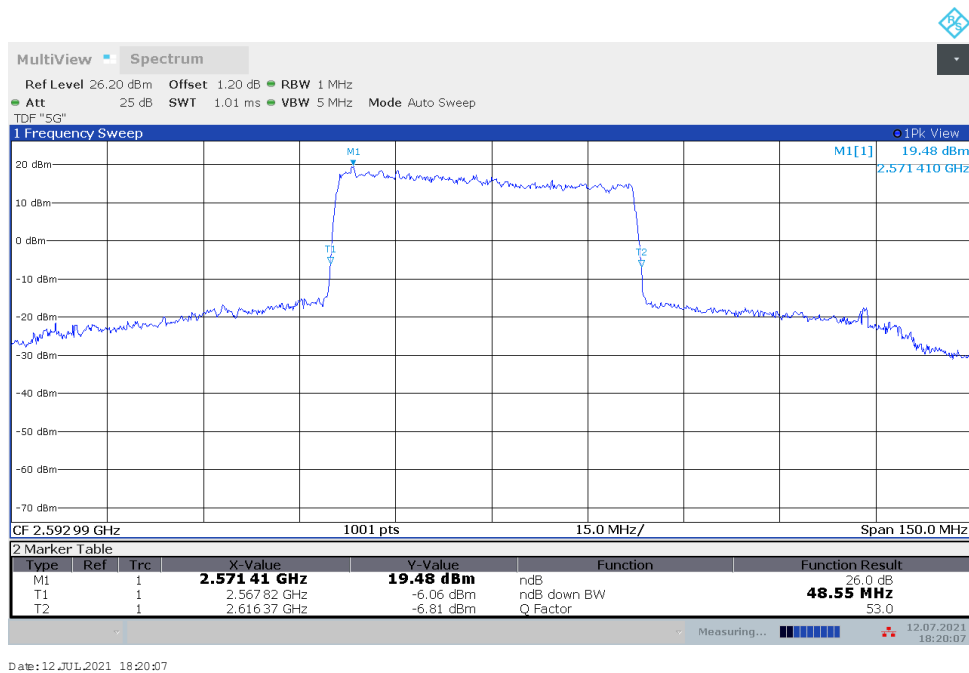
n41,50MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	48.700	48.550

n41,50MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



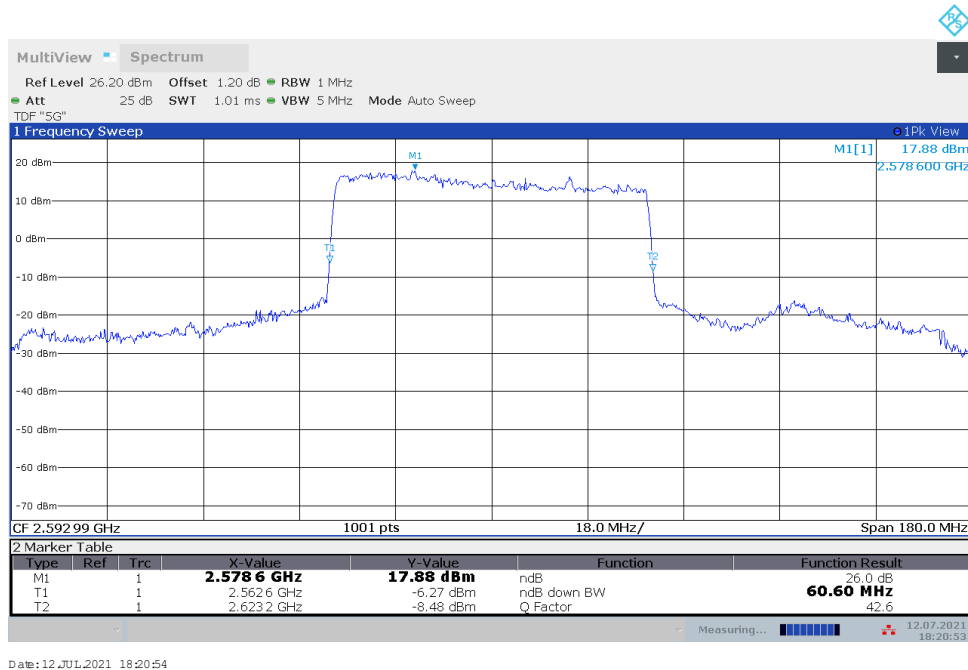
n41,50MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



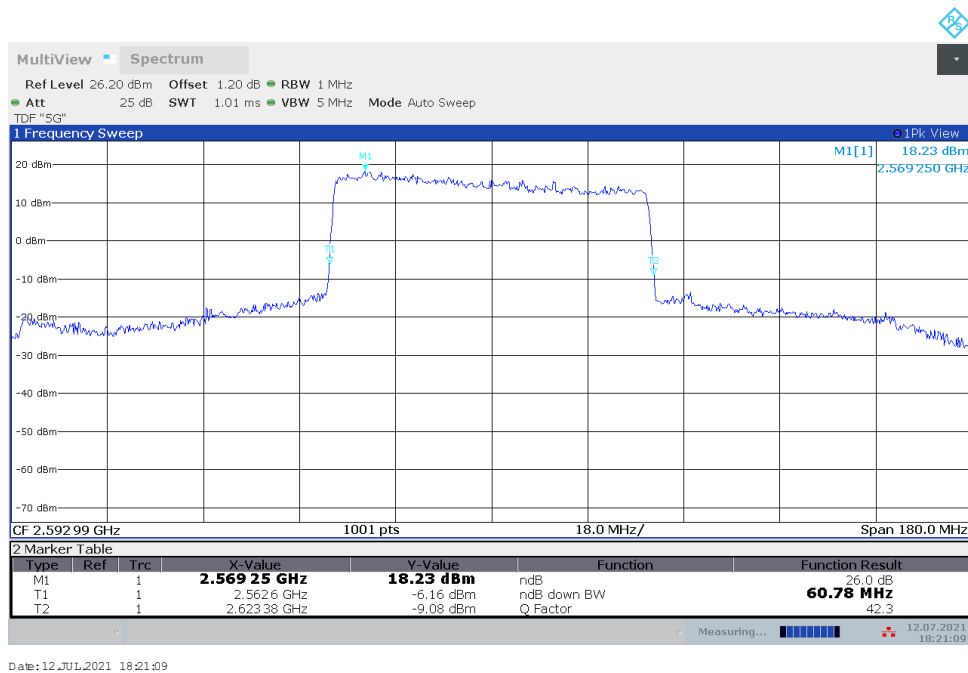
n41,60MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	60.600	60.780

n41,60MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



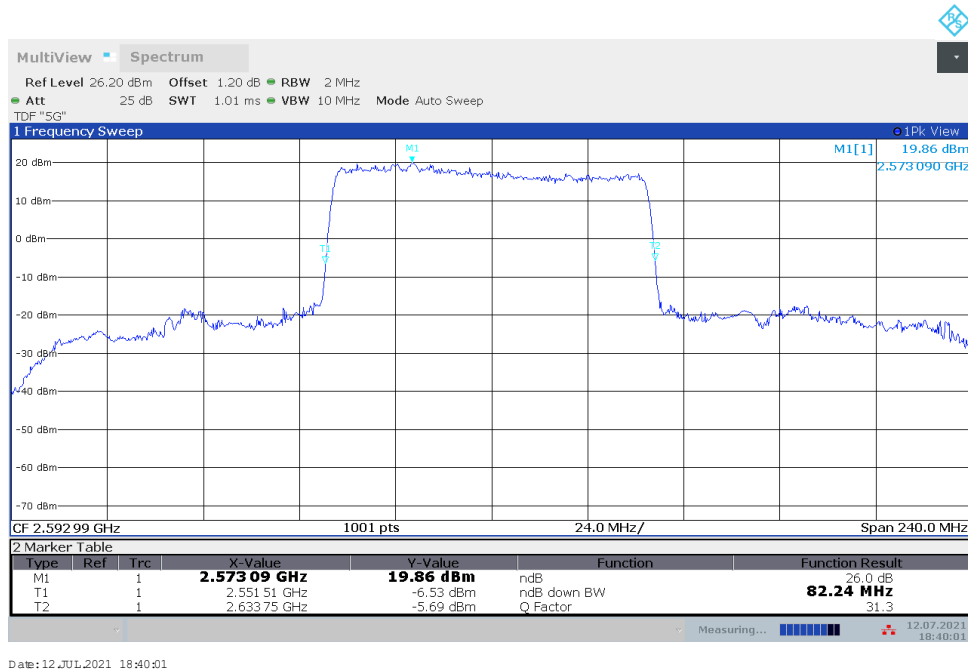
n41,60MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



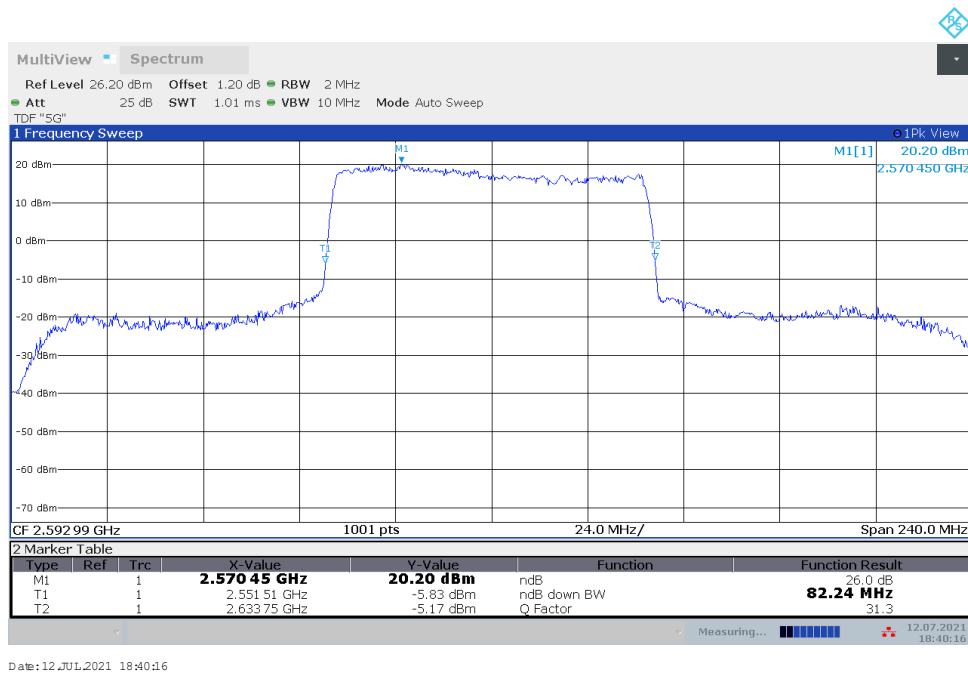
n41,80MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	82.240	82.240

n41,80MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



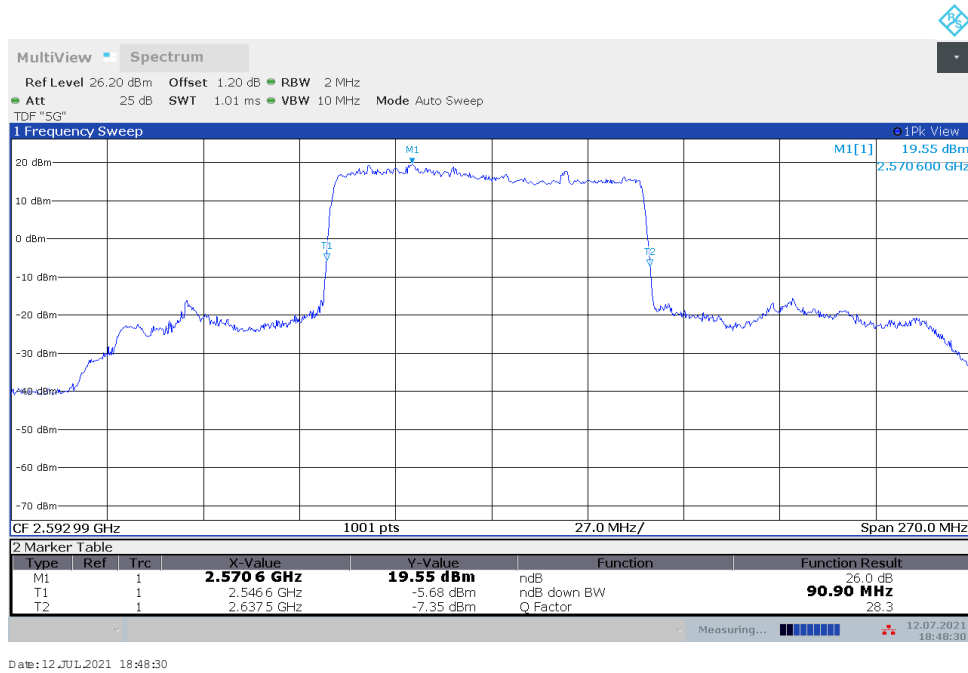
n41,80MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



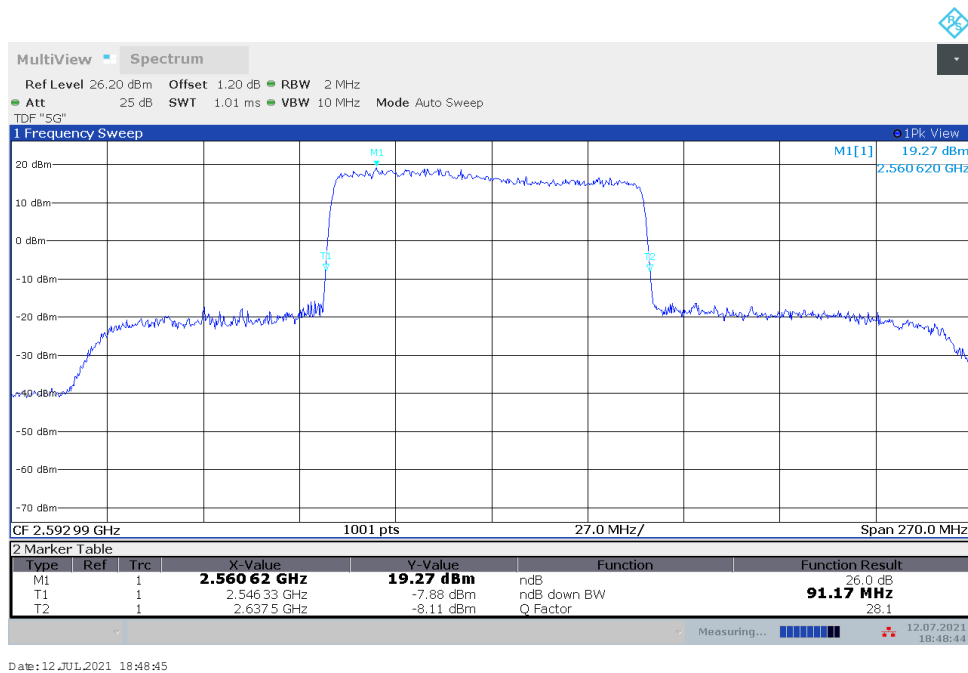
n41,90MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	90.900	91.170

n41,90MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



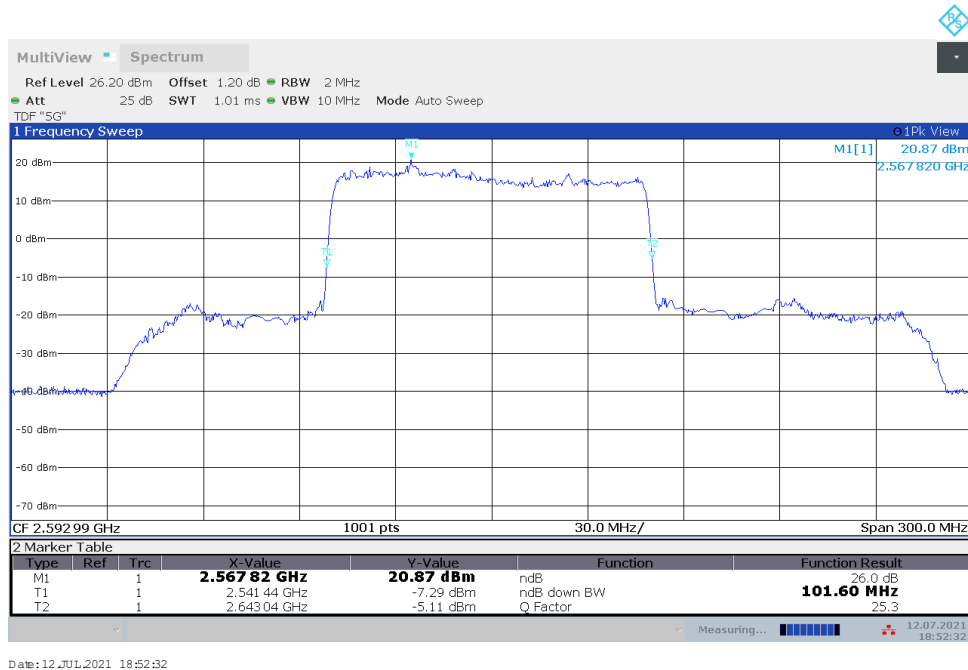
n41,90MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



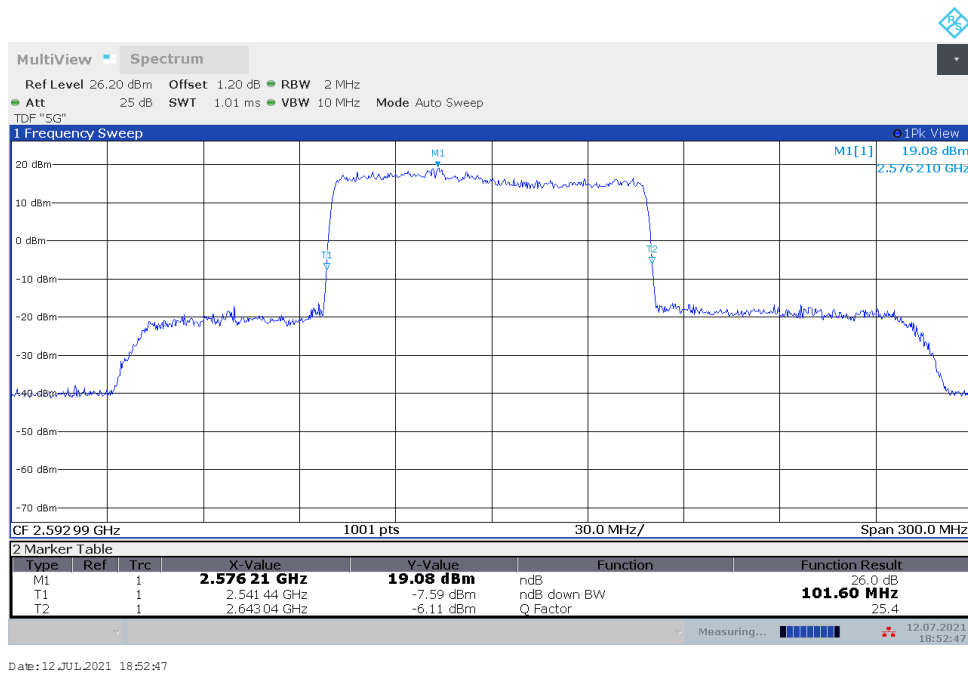
n41,100MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
2592.99	101.600	101.600

n41,100MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n41,100MHz Bandwidth,DFT-s-QPSK (-26dBc BW)



A.6 Band Edge Compliance

A.6.1 Measurement limit

Part 22.917, Part 24.238 and Part 27.53(h) specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

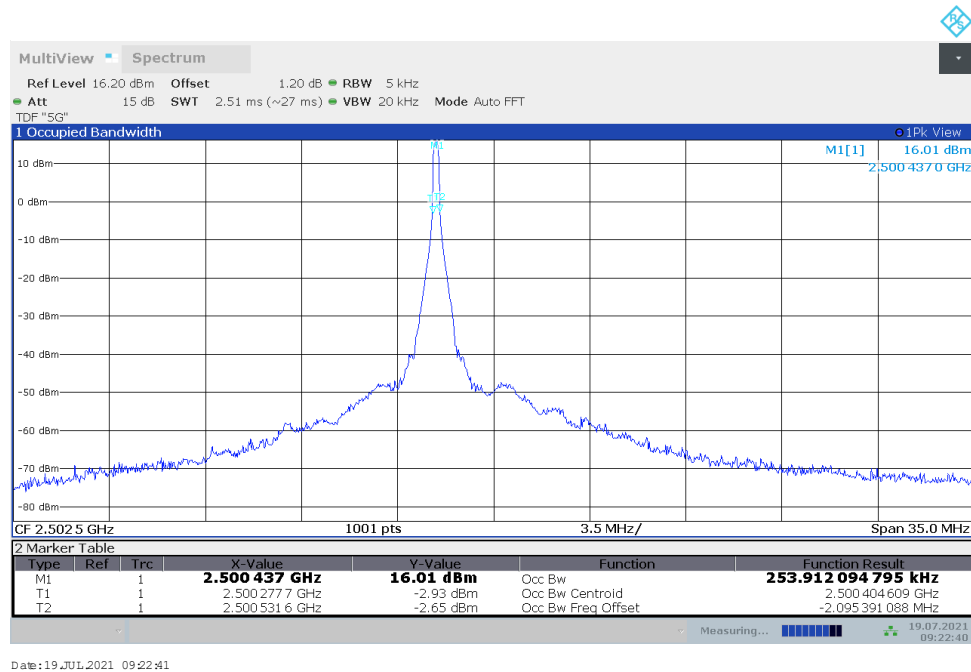
Part 27.53(m) specifies for mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Part 27.53(g) states for operations in the 600 MHz band and the 698–746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

A.6.2 Measurement result

n7-ANT3

OBW: 1RB-LOW_offset



LOW BAND EDGE BLOCK-1RB-LOW_offset

