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Appendix B

E-UTRA BAND 5



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1. Effective (Isotropic) Radiated Power

1.1.Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result	ERP	Limit	Verdict
DAND	Danuwiuth	Modulation	Channer	KB Conliguration	(dBm)	(dBm)	(dBm)	verdict
BAND5	1.4MHz	QPSK	20407	1RB#0	22.63	23.48	38.45	PASS
BAND5	1.4MHz	QPSK	20407	1RB#2	22.60	23.45	38.45	PASS
BAND5	1.4MHz	QPSK	20407	1RB#5	22.54	23.39	38.45	PASS
BAND5	1.4MHz	QPSK	20407	3RB#0	22.62	23.47	38.45	PASS
BAND5	1.4MHz	QPSK	20407	3RB#1	22.61	23.46	38.45	PASS
BAND5	1.4MHz	QPSK	20407	3RB#3	22.63	23.48	38.45	PASS
BAND5	1.4MHz	QPSK	20407	6RB#0	21.63	22.48	38.45	PASS
BAND5	1.4MHz	QPSK	20525	1RB#0	22.57	23.42	38.45	PASS
BAND5	1.4MHz	QPSK	20525	1RB#2	22.55	23.40	38.45	PASS
BAND5	1.4MHz	QPSK	20525	1RB#5	22.58	23.43	38.45	PASS
BAND5	1.4MHz	QPSK	20525	3RB#0	22.55	23.40	38.45	PASS
BAND5	1.4MHz	QPSK	20525	3RB#1	22.53	23.38	38.45	PASS
BAND5	1.4MHz	QPSK	20525	3RB#3	22.55	23.40	38.45	PASS
BAND5	1.4MHz	QPSK	20525	6RB#0	21.56	22.41	38.45	PASS
BAND5	1.4MHz	QPSK	20643	1RB#0	22.59	23.44	38.45	PASS
BAND5	1.4MHz	QPSK	20643	1RB#2	22.57	23.42	38.45	PASS
BAND5	1.4MHz	QPSK	20643	1RB#5	22.56	23.41	38.45	PASS
BAND5	1.4MHz	QPSK	20643	3RB#0	22.55	23.40	38.45	PASS
BAND5	1.4MHz	QPSK	20643	3RB#1	22.54	23.39	38.45	PASS
BAND5	1.4MHz	QPSK	20643	3RB#3	22.53	23.38	38.45	PASS
BAND5	1.4MHz	QPSK	20643	6RB#0	21.55	22.40	38.45	PASS
BAND5	1.4MHz	64QAM	20407	1RB#0	20.68	21.53	38.45	PASS
BAND5	1.4MHz	64QAM	20407	1RB#2	20.64	21.49	38.45	PASS
BAND5	1.4MHz	64QAM	20407	1RB#5	20.64	21.49	38.45	PASS
BAND5	1.4MHz	64QAM	20407	3RB#0	20.56	21.41	38.45	PASS
BAND5	1.4MHz	64QAM	20407	3RB#1	20.60	21.45	38.45	PASS
BAND5	1.4MHz	64QAM	20407	3RB#3	20.57	21.42	38.45	PASS
BAND5	1.4MHz	64QAM	20407	6RB#0	19.50	20.35	38.45	PASS
BAND5	1.4MHz	64QAM	20525	1RB#0	20.69	21.54	38.45	PASS
BAND5	1.4MHz	64QAM	20525	1RB#2	20.61	21.46	38.45	PASS
BAND5	1.4MHz	64QAM	20525	1RB#5	20.66	21.51	38.45	PASS
BAND5	1.4MHz	64QAM	20525	3RB#0	20.61	21.46	38.45	PASS
BAND5	1.4MHz	64QAM	20525	3RB#1	20.53	21.38	38.45	PASS
BAND5	1.4MHz	64QAM	20525	3RB#3	20.50	21.35	38.45	PASS



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	1							
BAND5	1.4MHz	64QAM	20525	6RB#0	19.48	20.33	38.45	PASS
BAND5	1.4MHz	64QAM	20643	1RB#0	20.64	21.49	38.45	PASS
BAND5	1.4MHz	64QAM	20643	1RB#2	20.59	21.44	38.45	PASS
BAND5	1.4MHz	64QAM	20643	1RB#5	20.61	21.46	38.45	PASS
BAND5	1.4MHz	64QAM	20643	3RB#0	20.55	21.40	38.45	PASS
BAND5	1.4MHz	64QAM	20643	3RB#1	20.49	21.34	38.45	PASS
BAND5	1.4MHz	64QAM	20643	3RB#3	20.48	21.33	38.45	PASS
BAND5	1.4MHz	64QAM	20643	6RB#0	19.37	20.22	38.45	PASS
BAND5	1.4MHz	16QAM	20407	1RB#0	21.88	22.73	38.45	PASS
BAND5	1.4MHz	16QAM	20407	1RB#2	21.68	22.53	38.45	PASS
BAND5	1.4MHz	16QAM	20407	1RB#5	21.61	22.46	38.45	PASS
BAND5	1.4MHz	16QAM	20407	3RB#0	21.71	22.56	38.45	PASS
BAND5	1.4MHz	16QAM	20407	3RB#1	21.70	22.55	38.45	PASS
BAND5	1.4MHz	16QAM	20407	3RB#3	21.66	22.51	38.45	PASS
BAND5	1.4MHz	16QAM	20407	6RB#0	20.65	21.50	38.45	PASS
BAND5	1.4MHz	16QAM	20525	1RB#0	21.72	22.57	38.45	PASS
BAND5	1.4MHz	16QAM	20525	1RB#2	21.71	22.56	38.45	PASS
BAND5	1.4MHz	16QAM	20525	1RB#5	21.71	22.56	38.45	PASS
BAND5	1.4MHz	16QAM	20525	3RB#0	21.64	22.49	38.45	PASS
BAND5	1.4MHz	16QAM	20525	3RB#1	21.62	22.47	38.45	PASS
BAND5	1.4MHz	16QAM	20525	3RB#3	21.63	22.48	38.45	PASS
BAND5	1.4MHz	16QAM	20525	6RB#0	20.58	21.43	38.45	PASS
BAND5	1.4MHz	16QAM	20643	1RB#0	21.77	22.62	38.45	PASS
BAND5	1.4MHz	16QAM	20643	1RB#2	21.67	22.52	38.45	PASS
BAND5	1.4MHz	16QAM	20643	1RB#5	21.68	22.53	38.45	PASS
BAND5	1.4MHz	16QAM	20643	3RB#0	21.60	22.45	38.45	PASS
BAND5	1.4MHz	16QAM	20643	3RB#1	21.56	22.41	38.45	PASS
BAND5	1.4MHz	16QAM	20643	3RB#3	21.52	22.37	38.45	PASS
BAND5	1.4MHz	16QAM	20643	6RB#0	20.55	21.40	38.45	PASS
BAND5	3MHz	QPSK	20415	1RB#0	22.60	23.45	38.45	PASS
BAND5	3MHz	QPSK	20415	1RB#8	22.56	23.41	38.45	PASS
BAND5	3MHz	QPSK	20415	1RB#14	22.56	23.41	38.45	PASS
BAND5	3MHz	QPSK	20415	8RB#0	21.63	22.48	38.45	PASS
BAND5	3MHz	QPSK	20415	8RB#4	21.52	22.37	38.45	PASS
BAND5	3MHz	QPSK	20415	8RB#7	21.52	22.37	38.45	PASS
BAND5	3MHz	QPSK	20415	15RB#0	21.55	22.40	38.45	PASS
BAND5	3MHz	QPSK	20525	1RB#0	22.52	23.37	38.45	PASS
BAND5	3MHz	QPSK	20525	1RB#8	22.57	23.42	38.45	PASS
BAND5	3MHz	QPSK	20525	1RB#14	22.50	23.35	38.45	PASS
BAND5	3MHz	QPSK	20525	8RB#0	21.55	22.40	38.45	PASS
BAND5	3MHz	QPSK	20525	8RB#4	21.55	22.40	38.45	PASS
		any subject to its General Condi						



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BANDS SMHz QPSK 2025 IRB#0 21.54 22.39 38.45 PASS BANDS SMHz QPSK 20635 IRB#0 22.58 23.43 38.45 PASS BANDS SMHz QPSK 20635 IRB#0 22.59 23.44 38.45 PASS BANDS SMHz QPSK 20635 IRB#14 22.50 23.35 38.45 PASS BANDS SMHz QPSK 20635 BRB#0 21.58 22.41 38.45 PASS BANDS SMHz QPSK 20635 IRB#40 21.57 22.42 38.45 PASS BANDS SMHz QPSK 20635 IRB#0 20.61 21.46 38.45 PASS BANDS SMHz G4QAM 20415 IRB#0 20.63 21.48 38.45 PASS BANDS SMHz G4QAM 20415 IRB#14 20.63 21.48 38.45 PASS BANDS		21/1-	ODSK	20525	00047	21 54	22.20	20 15	PASS
BAND5 3MHz QPSK 20635 1RB#0 22.58 23.43 38.45 PASS BAND5 3MHz QPSK 20635 1RB#8 22.59 23.44 38.45 PASS BAND5 3MHz QPSK 20635 1RB#14 22.50 23.35 38.45 PASS BAND5 3MHz QPSK 20635 8RB#0 21.58 22.43 38.45 PASS BAND5 3MHz QPSK 20635 8RB#7 21.53 22.38 38.45 PASS BAND5 3MHz QPSK 20635 18RB#0 21.57 22.43 38.45 PASS BAND5 3MHz G4QAM 20415 1RB#0 21.46 38.45 PASS BAND5 3MHz 64QAM 20415 1RB#0 19.51 20.38 38.45 PASS BAND5 3MHz 64QAM 20415 1RB#0 19.44 20.29 38.45 PASS BAND5 3MHz	BAND5	3MHz	QPSK	20525	8RB#7	21.54	22.39	38.45	
BAND5 3MHz QPSK 20635 1RB#8 22.59 23.44 38.45 PASS BAND5 3MHz QPSK 20635 IRB#14 22.50 23.35 38.45 PASS BAND5 3MHz QPSK 20635 BRB#0 21.56 22.41 38.45 PASS BAND5 3MHz QPSK 20635 BRB#7 21.53 22.33 38.45 PASS BAND5 3MHz QPSK 20635 IfB#0 21.57 22.42 38.45 PASS BAND5 3MHz 64QAM 20415 1RB#0 20.61 21.48 38.45 PASS BAND5 3MHz 64QAM 20415 1RB#14 20.63 21.43 38.45 PASS BAND5 3MHz 64QAM 20415 BRB#7 19.44 20.33 38.45 PASS BAND5 3MHz 64QAM 2045 1RB#0 20.61 21.46 38.45 PASS BAND5									
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BAND5 3MHz 64QAM 20525 1RB#14 20.60 21.45 38.45 PASS BAND5 3MHz 64QAM 20525 8RB#0 19.50 20.35 38.45 PASS BAND5 3MHz 64QAM 20525 8RB#7 19.45 20.30 38.45 PASS BAND5 3MHz 64QAM 20525 8RB#7 19.45 20.30 38.45 PASS BAND5 3MHz 64QAM 20525 15RB#0 19.48 20.30 38.45 PASS BAND5 3MHz 64QAM 20635 1RB#0 20.77 21.62 38.45 PASS BAND5 3MHz 64QAM 20635 1RB#8 20.74 21.59 38.45 PASS BAND5 3MHz 64QAM 20635 1RB#14 20.57 21.42 38.45 PASS BAND5 3MHz 64QAM 20635 8RB#0 19.49 20.34 38.45 PASS BAND		3MHz							
BAND5 3MHz 64QAM 20525 8RB#0 19.50 20.35 38.45 PASS BAND5 3MHz 64QAM 20525 8RB#4 19.47 20.32 38.45 PASS BAND5 3MHz 64QAM 20525 8RB#7 19.45 20.30 38.45 PASS BAND5 3MHz 64QAM 20525 15RB#0 19.48 20.33 38.45 PASS BAND5 3MHz 64QAM 20635 1RB#0 20.77 21.62 38.45 PASS BAND5 3MHz 64QAM 20635 1RB#8 20.74 21.59 38.45 PASS BAND5 3MHz 64QAM 20635 1RB#14 20.57 21.42 38.45 PASS BAND5 3MHz 64QAM 20635 8RB#0 19.49 20.34 38.45 PASS BAND5 3MHz 64QAM 20635 8RB#7 19.44 20.29 38.45 PASS BAND5			64QAM						
BAND5 3MHz 64QAM 20525 8RB#4 19.47 20.32 38.45 PASS BAND5 3MHz 64QAM 20525 8RB#7 19.45 20.30 38.45 PASS BAND5 3MHz 64QAM 20525 15RB#0 19.48 20.33 38.45 PASS BAND5 3MHz 64QAM 20635 1RB#0 20.77 21.62 38.45 PASS BAND5 3MHz 64QAM 20635 1RB#8 20.74 21.59 38.45 PASS BAND5 3MHz 64QAM 20635 1RB#14 20.57 21.42 38.45 PASS BAND5 3MHz 64QAM 20635 8RB#0 19.49 20.34 38.45 PASS BAND5 3MHz 64QAM 20635 8RB#1 19.50 20.35 38.45 PASS BAND5 3MHz 64QAM 20635 15RB#0 19.44 20.29 38.45 PASS BAND	BAND5	3MHz	64QAM	20525	1RB#14	20.60	21.45	38.45	
BAND5 3MHz 64QAM 20525 8RB#7 19.45 20.30 38.45 PASS BAND5 3MHz 64QAM 20625 15RB#0 19.48 20.33 38.45 PASS BAND5 3MHz 64QAM 20635 1RB#0 20.77 21.62 38.45 PASS BAND5 3MHz 64QAM 20635 1RB#3 20.74 21.59 38.45 PASS BAND5 3MHz 64QAM 20635 1RB#3 20.74 21.59 38.45 PASS BAND5 3MHz 64QAM 20635 1RB#14 20.57 21.42 38.45 PASS BAND5 3MHz 64QAM 20635 8RB#0 19.49 20.34 38.45 PASS BAND5 3MHz 64QAM 20635 8RB#7 19.44 20.29 38.45 PASS BAND5 3MHz 64QAM 20635 15RB#0 19.45 20.30 38.45 PASS BAND	BAND5	3MHz	64QAM	20525	8RB#0	19.50	20.35	38.45	PASS
BAND5 3MHz 64QAM 20525 15RB#0 19.48 20.33 38.45 PASS BAND5 3MHz 64QAM 20635 1RB#0 20.77 21.62 38.45 PASS BAND5 3MHz 64QAM 20635 1RB#8 20.74 21.59 38.45 PASS BAND5 3MHz 64QAM 20635 1RB#8 20.74 21.59 38.45 PASS BAND5 3MHz 64QAM 20635 1RB#14 20.57 21.42 38.45 PASS BAND5 3MHz 64QAM 20635 8RB#0 19.49 20.34 38.45 PASS BAND5 3MHz 64QAM 20635 8RB#7 19.44 20.29 38.45 PASS BAND5 3MHz 64QAM 20635 15RB#0 19.45 20.30 38.45 PASS BAND5 3MHz 16QAM 20415 1RB#0 21.58 22.43 38.45 PASS BAND	BAND5	3MHz	64QAM	20525	8RB#4	19.47	20.32	38.45	
BAND53MHz64QAM206351RB#020.7721.6238.45PASSBAND53MHz64QAM206351RB#820.7421.5938.45PASSBAND53MHz64QAM206351RB#1420.5721.4238.45PASSBAND53MHz64QAM206351RB#1420.5721.4238.45PASSBAND53MHz64QAM206358RB#019.4920.3438.45PASSBAND53MHz64QAM206358RB#419.5020.3538.45PASSBAND53MHz64QAM206358RB#719.4420.2938.45PASSBAND53MHz64QAM2063515RB#019.4520.3038.45PASSBAND53MHz64QAM2063515RB#019.4520.3038.45PASSBAND53MHz16QAM204151RB#021.5822.4338.45PASSBAND53MHz16QAM204151RB#821.7722.6238.45PASSBAND53MHz16QAM204158RB#020.6021.4538.45PASSBAND53MHz16QAM204158RB#720.5621.4138.45PASSBAND53MHz16QAM204158RB#720.5621.4138.45PASSBAND53MHz16QAM2041515RB#020.5321.3838.45PASSBAND53MHz16Q			· · · · · · · · · · · · · · · · · · ·						
BAND53MHz64QAM206351RB#820.7421.5938.45PASSBAND53MHz64QAM206351RB#1420.5721.4238.45PASSBAND53MHz64QAM206358RB#019.4920.3438.45PASSBAND53MHz64QAM206358RB#019.4920.3438.45PASSBAND53MHz64QAM206358RB#419.5020.3538.45PASSBAND53MHz64QAM206358RB#719.4420.2938.45PASSBAND53MHz64QAM2063515RB#019.4520.3038.45PASSBAND53MHz64QAM2063515RB#019.4520.3038.45PASSBAND53MHz16QAM204151RB#021.5822.4338.45PASSBAND53MHz16QAM204151RB#821.7722.6238.45PASSBAND53MHz16QAM204151RB#1421.7722.6238.45PASSBAND53MHz16QAM204158RB#020.6021.4538.45PASSBAND53MHz16QAM204158RB#720.5621.4138.45PASSBAND53MHz16QAM2041515RB#020.5321.3838.45PASSBAND53MHz16QAM2041515RB#020.5321.4138.45PASSBAND53MHz16	BAND5	3MHz	64QAM	20525	15RB#0	19.48	20.33	38.45	PASS
BAND53MHz64QAM206351RB#1420.5721.4238.45PASSBAND53MHz64QAM206358RB#019.4920.3438.45PASSBAND53MHz64QAM206358RB#419.5020.3538.45PASSBAND53MHz64QAM206358RB#719.4420.2938.45PASSBAND53MHz64QAM2063515RB#019.4520.3038.45PASSBAND53MHz64QAM2063515RB#019.4520.3038.45PASSBAND53MHz16QAM204151RB#021.5822.4338.45PASSBAND53MHz16QAM204151RB#821.7722.6238.45PASSBAND53MHz16QAM204151RB#1421.7722.6238.45PASSBAND53MHz16QAM204158RB#020.6021.4538.45PASSBAND53MHz16QAM204158RB#420.5421.3938.45PASSBAND53MHz16QAM204158RB#720.5621.4138.45PASSBAND53MHz16QAM2041515RB#020.5321.3838.45PASSBAND53MHz16QAM2041515RB#020.5321.3838.45PASSBAND53MHz16QAM205251RB#021.6522.5038.45PASSBAND53MHz16	BAND5	3MHz	64QAM	20635	1RB#0	20.77	21.62	38.45	PASS
BAND5 3MHz 64QAM 20635 8RB#0 19.49 20.34 38.45 PASS BAND5 3MHz 64QAM 20635 8RB#4 19.50 20.35 38.45 PASS BAND5 3MHz 64QAM 20635 8RB#7 19.44 20.29 38.45 PASS BAND5 3MHz 64QAM 20635 15RB#0 19.45 20.30 38.45 PASS BAND5 3MHz 64QAM 20635 15RB#0 19.45 20.30 38.45 PASS BAND5 3MHz 16QAM 20415 1RB#0 21.58 22.43 38.45 PASS BAND5 3MHz 16QAM 20415 1RB#8 21.77 22.62 38.45 PASS BAND5 3MHz 16QAM 20415 1RB#14 21.77 22.62 38.45 PASS BAND5 3MHz 16QAM 20415 8RB#0 20.60 21.45 38.45 PASS BAND	BAND5	3MHz	64QAM	20635	1RB#8	20.74	21.59	38.45	PASS
BAND53MHz64QAM206358RB#419.5020.3538.45PASSBAND53MHz64QAM206358RB#719.4420.2938.45PASSBAND53MHz64QAM2063515RB#019.4520.3038.45PASSBAND53MHz16QAM204151RB#021.5822.4338.45PASSBAND53MHz16QAM204151RB#821.7722.6238.45PASSBAND53MHz16QAM204151RB#821.7722.6238.45PASSBAND53MHz16QAM204151RB#1421.7722.6238.45PASSBAND53MHz16QAM204158RB#020.6021.4538.45PASSBAND53MHz16QAM204158RB#420.5421.3938.45PASSBAND53MHz16QAM204158RB#720.5621.4138.45PASSBAND53MHz16QAM2041515RB#020.5321.3838.45PASSBAND53MHz16QAM205251RB#021.6522.5038.45PASSBAND53MHz16QAM205251RB#821.6622.5138.45PASSBAND53MHz16QAM205251RB#821.6622.5038.45PASSBAND53MHz16QAM205251RB#1421.6522.5038.45PASSBAND53MHz16QA	BAND5	3MHz	64QAM	20635	1RB#14	20.57	21.42	38.45	PASS
BAND5 3MHz 64QAM 20635 8RB#7 19.44 20.29 38.45 PASS BAND5 3MHz 64QAM 20635 15RB#0 19.45 20.30 38.45 PASS BAND5 3MHz 16QAM 20415 1RB#0 21.58 22.43 38.45 PASS BAND5 3MHz 16QAM 20415 1RB#0 21.58 22.43 38.45 PASS BAND5 3MHz 16QAM 20415 1RB#8 21.77 22.62 38.45 PASS BAND5 3MHz 16QAM 20415 1RB#14 21.77 22.62 38.45 PASS BAND5 3MHz 16QAM 20415 8RB#0 20.60 21.45 38.45 PASS BAND5 3MHz 16QAM 20415 8RB#4 20.54 21.39 38.45 PASS BAND5 3MHz 16QAM 20415 8RB#7 20.56 21.41 38.45 PASS BAND5	BAND5	3MHz	64QAM	20635	8RB#0	19.49	20.34	38.45	PASS
BAND53MHz64QAM2063515RB#019.4520.3038.45PASSBAND53MHz16QAM204151RB#021.5822.4338.45PASSBAND53MHz16QAM204151RB#821.7722.6238.45PASSBAND53MHz16QAM204151RB#1421.7722.6238.45PASSBAND53MHz16QAM204151RB#1421.7722.6238.45PASSBAND53MHz16QAM204158RB#020.6021.4538.45PASSBAND53MHz16QAM204158RB#420.5421.3938.45PASSBAND53MHz16QAM204158RB#720.5621.4138.45PASSBAND53MHz16QAM2041515RB#020.5321.3838.45PASSBAND53MHz16QAM205251RB#021.6522.5038.45PASSBAND53MHz16QAM205251RB#821.6622.5138.45PASSBAND53MHz16QAM205251RB#821.6622.5138.45PASSBAND53MHz16QAM205251RB#1421.6522.5038.45PASSBAND53MHz16QAM205251RB#1421.6522.5038.45PASS	BAND5	3MHz	64QAM	20635	8RB#4	19.50	20.35	38.45	PASS
BAND5 3MHz 16QAM 20415 1RB#0 21.58 22.43 38.45 PASS BAND5 3MHz 16QAM 20415 1RB#8 21.77 22.62 38.45 PASS BAND5 3MHz 16QAM 20415 1RB#8 21.77 22.62 38.45 PASS BAND5 3MHz 16QAM 20415 1RB#14 21.77 22.62 38.45 PASS BAND5 3MHz 16QAM 20415 8RB#0 20.60 21.45 38.45 PASS BAND5 3MHz 16QAM 20415 8RB#0 20.60 21.45 38.45 PASS BAND5 3MHz 16QAM 20415 8RB#7 20.56 21.41 38.45 PASS BAND5 3MHz 16QAM 20415 15RB#0 20.53 21.38 38.45 PASS BAND5 3MHz 16QAM 20525 1RB#0 21.65 22.50 38.45 PASS BAND5	BAND5	3MHz	64QAM	20635	8RB#7	19.44	20.29	38.45	PASS
BAND5 3MHz 16QAM 20415 1RB#8 21.77 22.62 38.45 PASS BAND5 3MHz 16QAM 20415 1RB#14 21.77 22.62 38.45 PASS BAND5 3MHz 16QAM 20415 1RB#14 21.77 22.62 38.45 PASS BAND5 3MHz 16QAM 20415 8RB#0 20.60 21.45 38.45 PASS BAND5 3MHz 16QAM 20415 8RB#0 20.60 21.45 38.45 PASS BAND5 3MHz 16QAM 20415 8RB#0 20.54 21.39 38.45 PASS BAND5 3MHz 16QAM 20415 8RB#7 20.56 21.41 38.45 PASS BAND5 3MHz 16QAM 20415 15RB#0 20.53 21.38 38.45 PASS BAND5 3MHz 16QAM 20525 1RB#0 21.65 22.50 38.45 PASS BAND5 3MHz 16QAM 20525 1RB#8 21.66 22.51 38.45	BAND5	3MHz	64QAM	20635	15RB#0	19.45	20.30	38.45	PASS
BAND5 3MHz 16QAM 20415 1RB#14 21.77 22.62 38.45 PASS BAND5 3MHz 16QAM 20415 8RB#0 20.60 21.45 38.45 PASS BAND5 3MHz 16QAM 20415 8RB#0 20.60 21.45 38.45 PASS BAND5 3MHz 16QAM 20415 8RB#4 20.54 21.39 38.45 PASS BAND5 3MHz 16QAM 20415 8RB#7 20.56 21.41 38.45 PASS BAND5 3MHz 16QAM 20415 15RB#0 20.53 21.38 38.45 PASS BAND5 3MHz 16QAM 20525 1RB#0 21.65 22.50 38.45 PASS BAND5 3MHz 16QAM 20525 1RB#8 21.66 22.51 38.45 PASS BAND5 3MHz 16QAM 20525 1RB#14 21.65 22.50 38.45 PASS BAND	BAND5	3MHz	16QAM	20415	1RB#0	21.58	22.43	38.45	PASS
BAND5 3MHz 16QAM 20415 8RB#0 20.60 21.45 38.45 PASS BAND5 3MHz 16QAM 20415 8RB#4 20.54 21.39 38.45 PASS BAND5 3MHz 16QAM 20415 8RB#4 20.54 21.39 38.45 PASS BAND5 3MHz 16QAM 20415 8RB#7 20.56 21.41 38.45 PASS BAND5 3MHz 16QAM 20415 15RB#0 20.53 21.38 38.45 PASS BAND5 3MHz 16QAM 20415 15RB#0 20.53 21.38 38.45 PASS BAND5 3MHz 16QAM 20525 1RB#0 21.65 22.50 38.45 PASS BAND5 3MHz 16QAM 20525 1RB#8 21.66 22.51 38.45 PASS BAND5 3MHz 16QAM 20525 1RB#14 21.65 22.50 38.45 PASS	BAND5	3MHz	16QAM	20415	1RB#8	21.77	22.62	38.45	PASS
BAND5 3MHz 16QAM 20415 8RB#4 20.54 21.39 38.45 PASS BAND5 3MHz 16QAM 20415 8RB#7 20.56 21.41 38.45 PASS BAND5 3MHz 16QAM 20415 8RB#7 20.56 21.41 38.45 PASS BAND5 3MHz 16QAM 20415 15RB#0 20.53 21.38 38.45 PASS BAND5 3MHz 16QAM 20525 1RB#0 21.65 22.50 38.45 PASS BAND5 3MHz 16QAM 20525 1RB#8 21.66 22.51 38.45 PASS BAND5 3MHz 16QAM 20525 1RB#8 21.66 22.51 38.45 PASS BAND5 3MHz 16QAM 20525 1RB#14 21.65 22.50 38.45 PASS	BAND5	3MHz	16QAM	20415	1RB#14	21.77	22.62	38.45	PASS
BAND5 3MHz 16QAM 20415 8RB#7 20.56 21.41 38.45 PASS BAND5 3MHz 16QAM 20415 15RB#0 20.53 21.38 38.45 PASS BAND5 3MHz 16QAM 20525 1RB#0 21.65 22.50 38.45 PASS BAND5 3MHz 16QAM 20525 1RB#0 21.65 22.50 38.45 PASS BAND5 3MHz 16QAM 20525 1RB#8 21.66 22.51 38.45 PASS BAND5 3MHz 16QAM 20525 1RB#8 21.66 22.51 38.45 PASS BAND5 3MHz 16QAM 20525 1RB#14 21.65 22.50 38.45 PASS	BAND5	3MHz	16QAM	20415	8RB#0	20.60	21.45	38.45	PASS
BAND5 3MHz 16QAM 20415 15RB#0 20.53 21.38 38.45 PASS BAND5 3MHz 16QAM 20525 1RB#0 21.65 22.50 38.45 PASS BAND5 3MHz 16QAM 20525 1RB#0 21.65 22.50 38.45 PASS BAND5 3MHz 16QAM 20525 1RB#8 21.66 22.51 38.45 PASS BAND5 3MHz 16QAM 20525 1RB#14 21.65 22.50 38.45 PASS	BAND5	3MHz	16QAM	20415	8RB#4	20.54	21.39	38.45	PASS
BAND5 3MHz 16QAM 20525 1RB#0 21.65 22.50 38.45 PASS BAND5 3MHz 16QAM 20525 1RB#8 21.66 22.51 38.45 PASS BAND5 3MHz 16QAM 20525 1RB#8 21.66 22.51 38.45 PASS BAND5 3MHz 16QAM 20525 1RB#14 21.65 22.50 38.45 PASS	BAND5	3MHz	16QAM	20415	8RB#7	20.56	21.41	38.45	PASS
BAND5 3MHz 16QAM 20525 1RB#8 21.66 22.51 38.45 PASS BAND5 3MHz 16QAM 20525 1RB#14 21.65 22.50 38.45 PASS	BAND5	3MHz	16QAM	20415	15RB#0	20.53	21.38	38.45	PASS
BAND5 3MHz 16QAM 20525 1RB#14 21.65 22.50 38.45 PASS	BAND5	3MHz	16QAM	20525	1RB#0	21.65	22.50	38.45	PASS
	BAND5	3MHz	16QAM	20525	1RB#8	21.66	22.51	38.45	PASS
BAND5 3MHz 16QAM 20525 8RB#0 20.57 21.42 38.45 PASS	BAND5	3MHz	16QAM	20525	1RB#14	21.65	22.50	38.45	PASS
	BAND5	3MHz	16QAM	20525	8RB#0	20.57	21.42	38.45	PASS



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BAND5	3MHz	16QAM	20525	8RB#4	20.54	21.39	38.45	PASS
BAND5	3MHz	16QAM	20525	8RB#7	20.57	21.42	38.45	PASS
BAND5	3MHz	16QAM	20525	15RB#0	20.56	21.41	38.45	PASS
BAND5	3MHz	16QAM	20635	1RB#0	21.76	22.61	38.45	PASS
BAND5	3MHz	16QAM	20635	1RB#8	21.82	22.67	38.45	PASS
BAND5	3MHz	16QAM	20635	1RB#14	21.61	22.46	38.45	PASS
BAND5	3MHz	16QAM	20635	8RB#0	20.59	21.44	38.45	PASS
BAND5	3MHz	16QAM	20635	8RB#4	20.59	21.44	38.45	PASS
BAND5	3MHz	16QAM	20635	8RB#7	20.52	21.37	38.45	PASS
BAND5	3MHz	16QAM	20635	15RB#0	20.56	21.41	38.45	PASS
BAND5	5MHz	QPSK	20425	1RB#0	22.66	23.51	38.45	PASS
BAND5	5MHz	QPSK	20425	1RB#12	22.59	23.44	38.45	PASS
BAND5	5MHz	QPSK	20425	1RB#24	22.64	23.49	38.45	PASS
BAND5	5MHz	QPSK	20425	12RB#0	21.63	22.48	38.45	PASS
BAND5	5MHz	QPSK	20425	12RB#6	21.62	22.47	38.45	PASS
BAND5	5MHz	QPSK	20425	12RB#13	21.69	22.54	38.45	PASS
BAND5	5MHz	QPSK	20425	25RB#0	21.68	22.53	38.45	PASS
BAND5	5MHz	QPSK	20525	1RB#0	22.61	23.46	38.45	PASS
BAND5	5MHz	QPSK	20525	1RB#12	22.58	23.43	38.45	PASS
BAND5	5MHz	QPSK	20525	1RB#24	22.64	23.49	38.45	PASS
BAND5	5MHz	QPSK	20525	12RB#0	21.65	22.50	38.45	PASS
BAND5	5MHz	QPSK	20525	12RB#6	21.62	22.47	38.45	PASS
BAND5	5MHz	QPSK	20525	12RB#13	21.63	22.48	38.45	PASS
BAND5	5MHz	QPSK	20525	25RB#0	21.62	22.47	38.45	PASS
BAND5	5MHz	QPSK	20625	1RB#0	22.63	23.48	38.45	PASS
BAND5	5MHz	QPSK	20625	1RB#12	22.65	23.50	38.45	PASS
BAND5	5MHz	QPSK	20625	1RB#24	22.58	23.43	38.45	PASS
BAND5	5MHz	QPSK	20625	12RB#0	21.73	22.58	38.45	PASS
BAND5	5MHz	QPSK	20625	12RB#6	21.71	22.56	38.45	PASS
BAND5	5MHz	QPSK	20625	12RB#13	21.66	22.51	38.45	PASS
BAND5	5MHz	QPSK	20625	25RB#0	21.72	22.57	38.45	PASS
BAND5	5MHz	64QAM	20425	1RB#0	20.70	21.55	38.45	PASS
BAND5	5MHz	64QAM	20425	1RB#12	20.68	21.53	38.45	PASS
BAND5	5MHz	64QAM	20425	1RB#24	20.71	21.56	38.45	PASS
BAND5	5MHz	64QAM	20425	12RB#0	19.58	20.43	38.45	PASS
BAND5	5MHz	64QAM	20425	12RB#6	19.58	20.43	38.45	PASS
BAND5	5MHz	64QAM	20425	12RB#13	19.66	20.51	38.45	PASS
BAND5	5MHz	64QAM	20425	25RB#0	19.73	20.58	38.45	PASS
BAND5	5MHz	64QAM	20525	1RB#0	20.72	21.57	38.45	PASS
BAND5	5MHz	64QAM	20525	1RB#12	20.64	21.49	38.45	PASS
BAND5	5MHz	64QAM	20525	1RB#24	20.71	21.56	38.45	PASS
This documor	at is issued by the Comr	any subject to its General Cond	Higher of Parvias print	ad availant, available on request of				



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BAND5	5MHz	64QAM	20525	12RB#0	19.61	20.46	38.45	PASS
BAND5	5MHz	64QAM	20525	12RB#6	19.57	20.42	38.45	PASS
BAND5	5MHz	64QAM	20525	12RB#13	19.58	20.43	38.45	PASS
BAND5	5MHz	64QAM	20525	25RB#0	19.59	20.44	38.45	PASS
BAND5	5MHz	64QAM	20625	1RB#0	20.69	21.54	38.45	PASS
BAND5	5MHz	64QAM	20625	1RB#12	20.69	21.54	38.45	PASS
BAND5	5MHz	64QAM	20625	1RB#24	20.61	21.46	38.45	PASS
BAND5	5MHz	64QAM	20625	12RB#0	19.64	20.49	38.45	PASS
BAND5	5MHz	64QAM	20625	12RB#6	19.63	20.48	38.45	PASS
BAND5	5MHz	64QAM	20625	12RB#13	19.55	20.40	38.45	PASS
BAND5	5MHz	64QAM	20625	25RB#0	19.63	20.48	38.45	PASS
BAND5	5MHz	16QAM	20425	1RB#0	21.88	22.73	38.45	PASS
BAND5	5MHz	16QAM	20425	1RB#12	21.83	22.68	38.45	PASS
BAND5	5MHz	16QAM	20425	1RB#24	21.65	22.50	38.45	PASS
BAND5	5MHz	16QAM	20425	12RB#0	20.68	21.53	38.45	PASS
BAND5	5MHz	16QAM	20425	12RB#6	20.65	21.50	38.45	PASS
BAND5	5MHz	16QAM	20425	12RB#13	20.76	21.61	38.45	PASS
BAND5	5MHz	16QAM	20425	25RB#0	20.75	21.60	38.45	PASS
BAND5	5MHz	16QAM	20525	1RB#0	21.79	22.64	38.45	PASS
BAND5	5MHz	16QAM	20525	1RB#12	21.77	22.62	38.45	PASS
BAND5	5MHz	16QAM	20525	1RB#24	21.80	22.65	38.45	PASS
BAND5	5MHz	16QAM	20525	12RB#0	20.73	21.58	38.45	PASS
BAND5	5MHz	16QAM	20525	12RB#6	20.72	21.57	38.45	PASS
BAND5	5MHz	16QAM	20525	12RB#13	20.73	21.58	38.45	PASS
BAND5	5MHz	16QAM	20525	25RB#0	20.71	21.56	38.45	PASS
BAND5	5MHz	16QAM	20625	1RB#0	21.82	22.67	38.45	PASS
BAND5	5MHz	16QAM	20625	1RB#12	21.75	22.60	38.45	PASS
BAND5	5MHz	16QAM	20625	1RB#24	21.66	22.51	38.45	PASS
BAND5	5MHz	16QAM	20625	12RB#0	20.77	21.62	38.45	PASS
BAND5	5MHz	16QAM	20625	12RB#6	20.78	21.63	38.45	PASS
BAND5	5MHz	16QAM	20625	12RB#13	20.74	21.59	38.45	PASS
BAND5	5MHz	16QAM	20625	25RB#0	20.76	21.61	38.45	PASS
BAND5	10MHz	QPSK	20450	1RB#0	22.79	23.64	38.45	PASS
BAND5	10MHz	QPSK	20450	1RB#24	22.76	23.61	38.45	PASS
BAND5	10MHz	QPSK	20450	1RB#49	22.67	23.52	38.45	PASS
BAND5	10MHz	QPSK	20450	25RB#0	21.69	22.54	38.45	PASS
BAND5	10MHz	QPSK	20450	25RB#12	21.71	22.56	38.45	PASS
BAND5	10MHz	QPSK	20450	25RB#25	21.61	22.46	38.45	PASS
BAND5	10MHz	QPSK	20450	50RB#0	21.70	22.55	38.45	PASS
BAND5	10MHz	QPSK	20525	1RB#0	22.68	23.53	38.45	PASS
BAND5	10MHz	QPSK	20525	1RB#24	22.64	23.49	38.45	PASS
This desuma	nt in innund hut the Comm	I any aubiast to its Canaral Candi	i tiana af Camilas mint	ed overleaf,-available on request or			I Condition	a conv and for



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							-	
BAND5	10MHz	QPSK	20525	1RB#49	22.72	23.57	38.45	PASS
BAND5	10MHz	QPSK	20525	25RB#0	21.63	22.48	38.45	PASS
BAND5	10MHz	QPSK	20525	25RB#12	21.59	22.44	38.45	PASS
BAND5	10MHz	QPSK	20525	25RB#25	21.65	22.50	38.45	PASS
BAND5	10MHz	QPSK	20525	50RB#0	21.60	22.45	38.45	PASS
BAND5	10MHz	QPSK	20600	1RB#0	22.68	23.53	38.45	PASS
BAND5	10MHz	QPSK	20600	1RB#24	22.68	23.53	38.45	PASS
BAND5	10MHz	QPSK	20600	1RB#49	22.67	23.52	38.45	PASS
BAND5	10MHz	QPSK	20600	25RB#0	21.72	22.57	38.45	PASS
BAND5	10MHz	QPSK	20600	25RB#12	21.79	22.64	38.45	PASS
BAND5	10MHz	QPSK	20600	25RB#25	21.68	22.53	38.45	PASS
BAND5	10MHz	QPSK	20600	50RB#0	21.65	22.50	38.45	PASS
BAND5	10MHz	64QAM	20450	1RB#0	20.82	21.67	38.45	PASS
BAND5	10MHz	64QAM	20450	1RB#24	20.83	21.68	38.45	PASS
BAND5	10MHz	64QAM	20450	1RB#49	20.77	21.62	38.45	PASS
BAND5	10MHz	64QAM	20450	25RB#0	19.64	20.49	38.45	PASS
BAND5	10MHz	64QAM	20450	25RB#12	19.64	20.49	38.45	PASS
BAND5	10MHz	64QAM	20450	25RB#25	19.58	20.43	38.45	PASS
BAND5	10MHz	64QAM	20450	50RB#0	19.62	20.47	38.45	PASS
BAND5	10MHz	64QAM	20525	1RB#0	20.74	21.59	38.45	PASS
BAND5	10MHz	64QAM	20525	1RB#24	20.67	21.52	38.45	PASS
BAND5	10MHz	64QAM	20525	1RB#49	20.82	21.67	38.45	PASS
BAND5	10MHz	64QAM	20525	25RB#0	19.57	20.42	38.45	PASS
BAND5	10MHz	64QAM	20525	25RB#12	19.56	20.41	38.45	PASS
BAND5	10MHz	64QAM	20525	25RB#25	19.60	20.45	38.45	PASS
BAND5	10MHz	64QAM	20525	50RB#0	19.48	20.33	38.45	PASS
BAND5	10MHz	64QAM	20600	1RB#0	20.84	21.69	38.45	PASS
BAND5	10MHz	64QAM	20600	1RB#24	20.71	21.56	38.45	PASS
BAND5	10MHz	64QAM	20600	1RB#49	20.63	21.48	38.45	PASS
BAND5	10MHz	64QAM	20600	25RB#0	19.62	20.47	38.45	PASS
BAND5	10MHz	64QAM	20600	25RB#12	19.56	20.41	38.45	PASS
BAND5	10MHz	64QAM	20600	25RB#25	19.62	20.47	38.45	PASS
BAND5	10MHz	64QAM	20600	50RB#0	19.53	20.38	38.45	PASS
BAND5	10MHz	16QAM	20450	1RB#0	21.91	22.76	38.45	PASS
BAND5	10MHz	16QAM	20450	1RB#24	21.80	22.65	38.45	PASS
BAND5	10MHz	16QAM	20450	1RB#49	21.83	22.68	38.45	PASS
BAND5	10MHz	16QAM	20450	25RB#0	20.74	21.59	38.45	PASS
BAND5	10MHz	16QAM	20450	25RB#12	20.78	21.63	38.45	PASS
BAND5	10MHz	16QAM	20450	25RB#25	20.68	21.53	38.45	PASS
BAND5	10MHz	16QAM	20450	50RB#0	20.76	21.61	38.45	PASS
BAND5	10MHz	16QAM	20525	1RB#0	21.89	22.74	38.45	PASS
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BAND5	10MHz	16QAM	20525	1RB#24	21.89	22.74	38.45	PASS
BAND5	10MHz	16QAM	20525	1RB#49	22.01	22.86	38.45	PASS
BAND5	10MHz	16QAM	20525	25RB#0	20.69	21.54	38.45	PASS
BAND5	10MHz	16QAM	20525	25RB#12	20.66	21.51	38.45	PASS
BAND5	10MHz	16QAM	20525	25RB#25	20.72	21.57	38.45	PASS
BAND5	10MHz	16QAM	20525	50RB#0	20.63	21.48	38.45	PASS
BAND5	10MHz	16QAM	20600	1RB#0	21.77	22.62	38.45	PASS
BAND5	10MHz	16QAM	20600	1RB#24	21.80	22.65	38.45	PASS
BAND5	10MHz	16QAM	20600	1RB#49	21.84	22.69	38.45	PASS
BAND5	10MHz	16QAM	20600	25RB#0	20.88	21.73	38.45	PASS
BAND5	10MHz	16QAM	20600	25RB#12	20.70	21.55	38.45	PASS
BAND5	10MHz	16QAM	20600	25RB#25	20.76	21.61	38.45	PASS
BAND5	10MHz	16QAM	20600	50RB#0	20.68	21.53	38.45	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

ERP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBd]

EIRP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBi]

b: SGP=Signal Generator Level



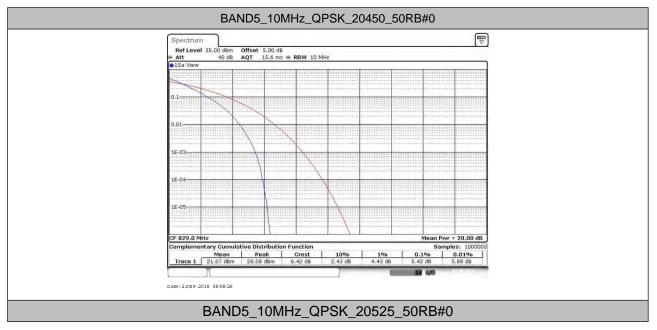
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2. Peak-to-Average Ratio(CCDF)

2.1.Test Result

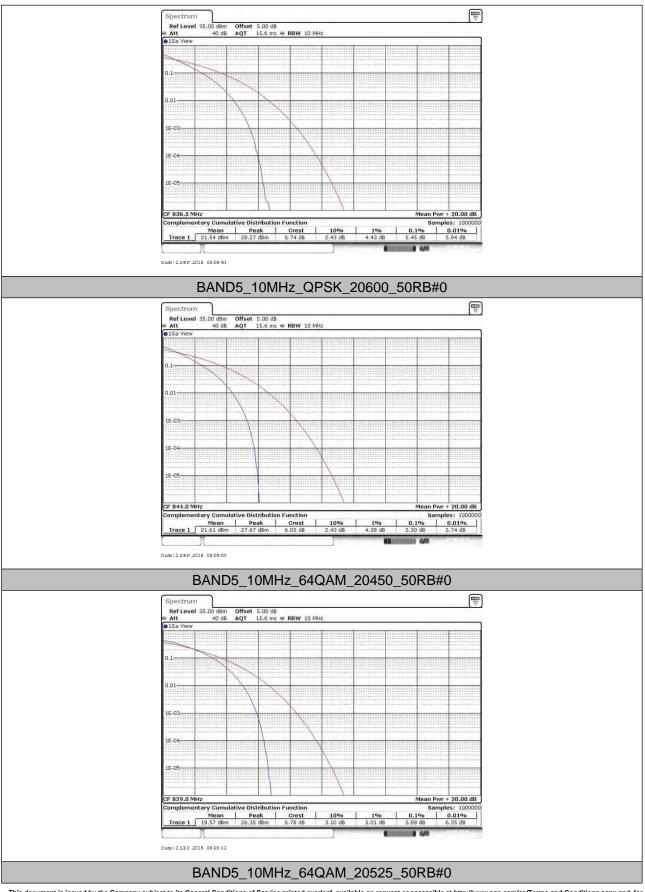
BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
BAND5	10MHz	QPSK	20450	50RB#0	5.42	13	PASS
BAND5	10MHz	QPSK	20525	50RB#0	5.45	13	PASS
BAND5	10MHz	QPSK	20600	50RB#0	5.30	13	PASS
BAND5	10MHz	64QAM	20450	50RB#0	5.88	13	PASS
BAND5	10MHz	64QAM	20525	50RB#0	5.88	13	PASS
BAND5	10MHz	64QAM	20600	50RB#0	5.62	13	PASS
BAND5	10MHz	16QAM	20450	50RB#0	6.12	13	PASS
BAND5	10MHz	16QAM	20525	50RB#0	6.09	13	PASS
BAND5	10MHz	16QAM	20600	50RB#0	5.86	13	PASS

2.2. Test Plots



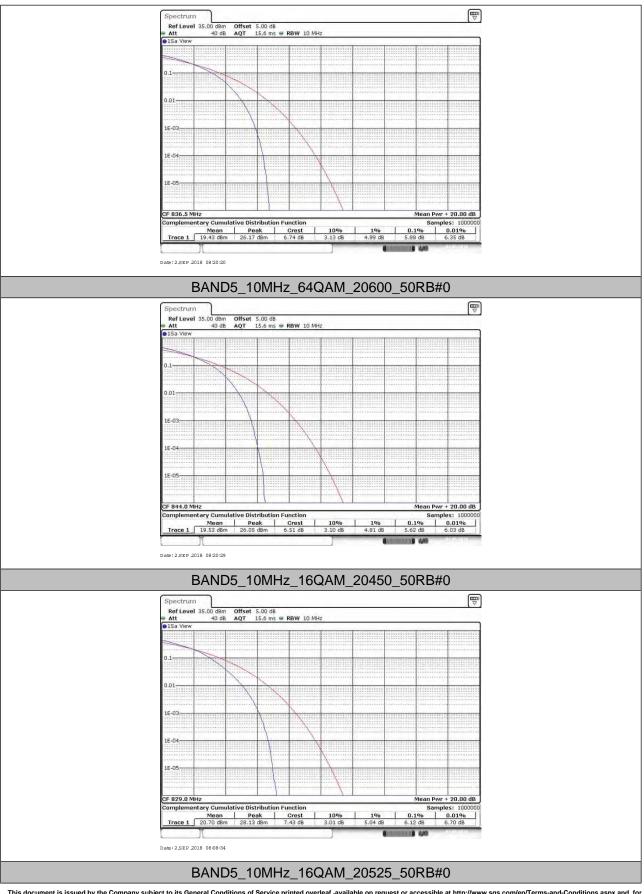


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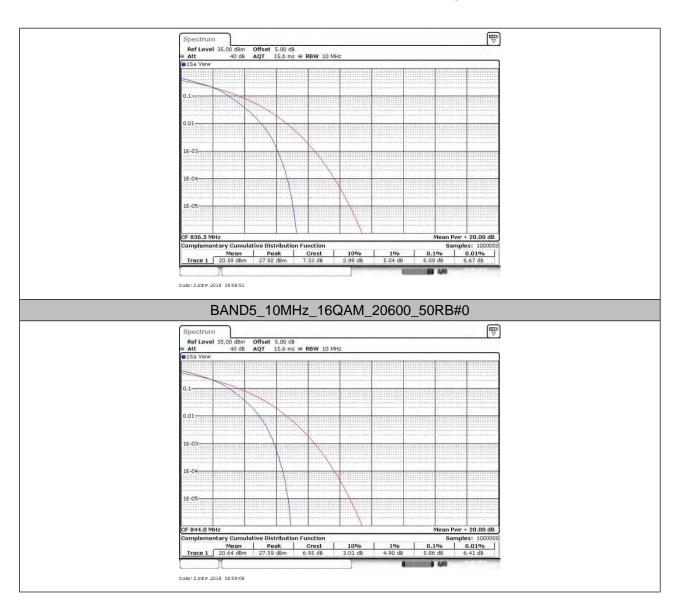


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3. Modulation Characteristics

3.1.Test BAND = LTE BAND5

3.1.1. Test Mode = LTE /TM1 10MHz

3.1.1.1. Test Channel = MCH

Phone2	Phone1	UL Channel TPC Patt Coperation Band Channel	M 6888 Bandwidth Output	10.0 dBm		andi a ⁿ a chiana a chiana	0	MT8821C 2018/09/02 16:31 RF Output : On
PCC SC		Measurement	Signalin	g		UE	Power: 20.7 dBm	
Common		Fundamental) Constellatio	n			-	Main Streen	
Physical Channel	UL RMC	0 Symbol 1-0.6706 Q	-0.6926		Meas. Count :	18/ 20	Fundamental Sub Screen	
Call Processing	RB Post						Constellation	Measuring
TX Measurement	Number of R8				÷		Number of RB	Rx
RX Measurement	Starting RB						50 Starting RB	Remote
Fundamental Measurement	4792 kbps MCS index 510936 (5, 1372, 1	Q			1		Herpite Constants None	Go To Local
Test Parameter	64QAM Distant 256QAM Distant							Connected
	DL RMC							Remote Trace
Band	O TDD		Avg.	Max.	Min.	Linit		Screen Off
Definition		EVM	265	334		s 173 Winn)		ALL AND A
External		Peak Vector Error Carrier Leakage	14.86 -5331	17:13	12.83%			
Loss		IQ Imbalance	100.00	100.20	-36.13 86C		Concession in which the	
System Config		entrance					4-Views	



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3.1.2. Test Mode = LTE /TM2 10MHz

3.1.2.1. Test Channel = MCH

Phone2	Phone1 ITE 30.70FEB	UL Channel TPC Patte Operation Band Channel B	All e346 andwidth Output I	10.0 dBm			0	MT8821C 2018/09/02 16/33 RF Output : On
PCC SC	c1 scc2 scc3 >>	Measurement	Signalin	9		UE	Power: 20.1 dBm	
Common		Fundamental > Constellation				-	Main Screen	
Physical Channel	S UL RMC	0 Symbol 10.3074 Q -0	9058		Meas. Count :	19/ 20	Fundamental Sub Screen	
Call Processing	UL Allocation Mode Stormal R5 Pos.						Constellation	Measuring
TX Measurement	Number of R8 50			(gr			Number of RB	Tx Rx
RX Measurement	Starting RB	Q					Starting RB	Remote
Fundamental Measurement	14112 kbps MCS Index 15 16QAM	2		ie:			Hereitan Constants Norm	Go To Local
Test	64QAM District		÷ *					Connected
Parameter	256QAM							
	DL RMC	i		ı				Remote Traci
Band Definition	סמד 🔇	EVM	Avg. 2.57	Max. 288	Min. 238%(ms)	Limit s 123 Winnsh	198 ¹⁶ 189.	Screen Off
External Loss		Peak Vector Error Carrier Leakage	14.00 -53.21	17.00	11.88 %		nd St	
System Config		1Q Imbalance	99.99	100.10	99.88 %(/Q)		4 Views	



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3.1.1. Test Mode = LTE /TM3 10MHz

3.1.1.1. Test Channel = MCH

Phone2	Phone1 ITE 30.704788	22525 ch	C Pattern All +568 hannel Bandwidth LO Mine	Output Le	iù 0 dBm			٥	MT8821C 2018/09/02 16:32 RF Output : On
PCC SC	c1 scc2 scc3 >>	Measuremen	t S	lignaling			UE	Power : 19.1 dBm	
Common		Fundamental) Cons	tellation.					Main Screen	
Physical Channel	S UL RMC	0 Sym 11.12	ibol 07 Q -0.7895			Meas. Count :	19/ 20	Fundamental Sub Screen	
Call	UL Allocation Mode							Constellation	
Processing	RB Pos.								End
TX Measurement	Number of R8							Number of RB	Rx
RX	Starting RB							Starting RB	
Measurement	Max UL Throughput	Q						Distance Constants	Remote Go To Local
Measurement	MCS index 25 64QAM							Norm	
1 202	64QAM Enabled								(Connected)
Test Parameter	256QAM Distribut							p e i	
	DL RMC							h, ⁶ , 1	Remote Trace
Band	🔊 TDD			Avg.	1 Max.	Min.	Limit	0.000	
Definition		EVM		2.93	355	2.54 %(rms)	: 405(m)		Screen Off
External Loss		Peak Vector Error Carrier Leakage		2.37	17,23 -49,47	13.00 % -56.00 d8c			
System Config		.IQ Imbalance	. 10	0.01 1	190.21	99.85 %(I/Q)		4 Views	



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4. 26dB Bandwidth and Occupied Bandwidth

4.1.Test Result

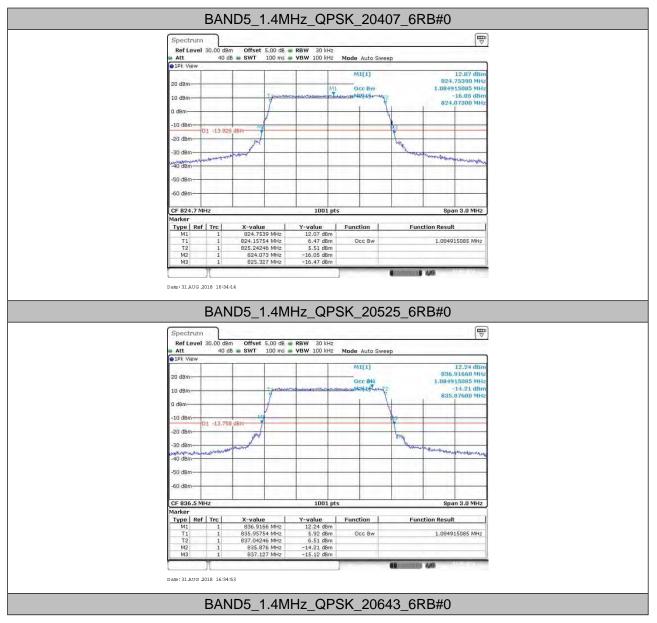
BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
BAND5	1.4MHz	QPSK	20407	6RB#0	1.085	1.254	PASS
BAND5	1.4MHz	QPSK	20525	6RB#0	1.085	1.251	PASS
BAND5	1.4MHz	QPSK	20643	6RB#0	1.085	1.245	PASS
BAND5	1.4MHz	64QAM	20407	6RB#0	1.085	1.242	PASS
BAND5	1.4MHz	64QAM	20525	6RB#0	1.085	1.254	PASS
BAND5	1.4MHz	64QAM	20643	6RB#0	1.088	1.260	PASS
BAND5	1.4MHz	16QAM	20407	6RB#0	1.085	1.248	PASS
BAND5	1.4MHz	16QAM	20525	6RB#0	1.085	1.248	PASS
BAND5	1.4MHz	16QAM	20643	6RB#0	1.088	1.251	PASS
BAND5	3MHz	QPSK	20415	15RB#0	2.685	2.976	PASS
BAND5	3MHz	QPSK	20525	15RB#0	2.685	2.994	PASS
BAND5	3MHz	QPSK	20635	15RB#0	2.685	2.988	PASS
BAND5	3MHz	64QAM	20415	15RB#0	2.685	2.982	PASS
BAND5	3MHz	64QAM	20525	15RB#0	2.685	2.970	PASS
BAND5	3MHz	64QAM	20635	15RB#0	2.691	2.994	PASS
BAND5	3MHz	16QAM	20415	15RB#0	2.685	2.976	PASS
BAND5	3MHz	16QAM	20525	15RB#0	2.685	2.976	PASS
BAND5	3MHz	16QAM	20635	15RB#0	2.685	2.982	PASS
BAND5	5MHz	QPSK	20425	25RB#0	4.456	4.870	PASS
BAND5	5MHz	QPSK	20525	25RB#0	4.456	4.860	PASS
BAND5	5MHz	QPSK	20625	25RB#0	4.456	4.860	PASS
BAND5	5MHz	64QAM	20425	25RB#0	4.456	4.850	PASS
BAND5	5MHz	64QAM	20525	25RB#0	4.456	4.870	PASS
BAND5	5MHz	64QAM	20625	25RB#0	4.456	4.870	PASS
BAND5	5MHz	16QAM	20425	25RB#0	4.456	4.840	PASS
BAND5	5MHz	16QAM	20525	25RB#0	4.456	4.840	PASS
BAND5	5MHz	16QAM	20625	25RB#0	4.456	4.830	PASS
BAND5	10MHz	QPSK	20450	50RB#0	8.911	10.160	PASS
BAND5	10MHz	QPSK	20525	50RB#0	8.951	10.160	PASS
BAND5	10MHz	QPSK	20600	50RB#0	8.911	10.160	PASS
BAND5	10MHz	64QAM	20450	50RB#0	8.911	10.120	PASS
BAND5	10MHz	64QAM	20525	50RB#0	8.931	10.220	PASS
BAND5	10MHz	64QAM	20600	50RB#0	8.911	10.220	PASS



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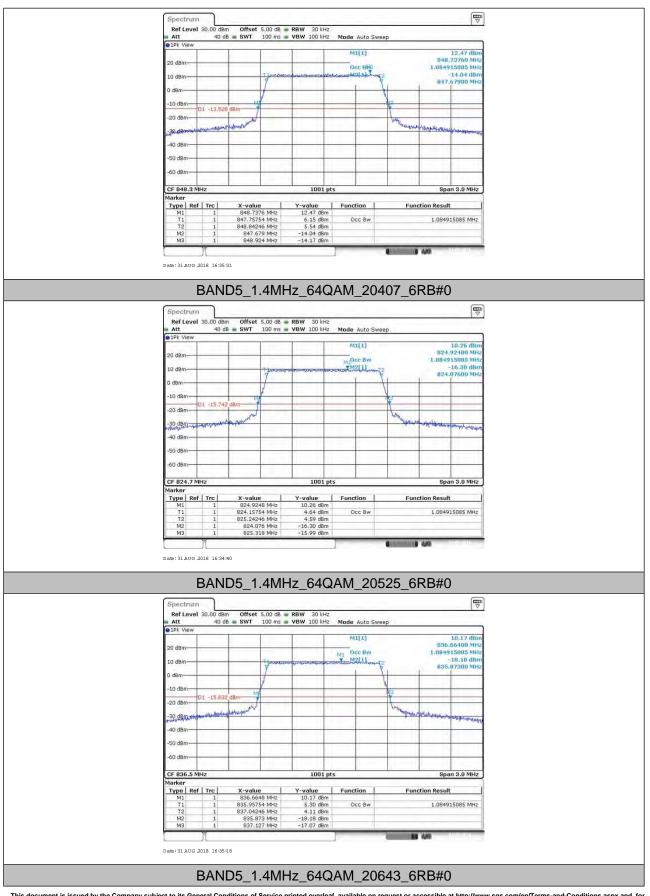
BAND5	10MHz	16QAM	20450	50RB#0	8.931	10.240	PASS
BAND5	10MHz	16QAM	20525	50RB#0	8.931	10.180	PASS
BAND5	10MHz	16QAM	20600	50RB#0	8.911	10.140	PASS

4.2. Test Plots



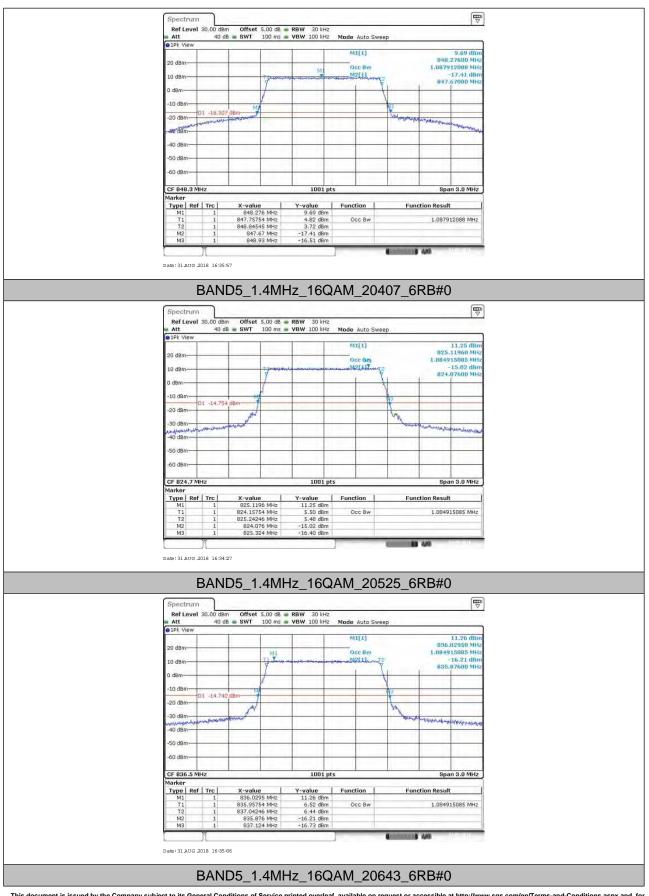


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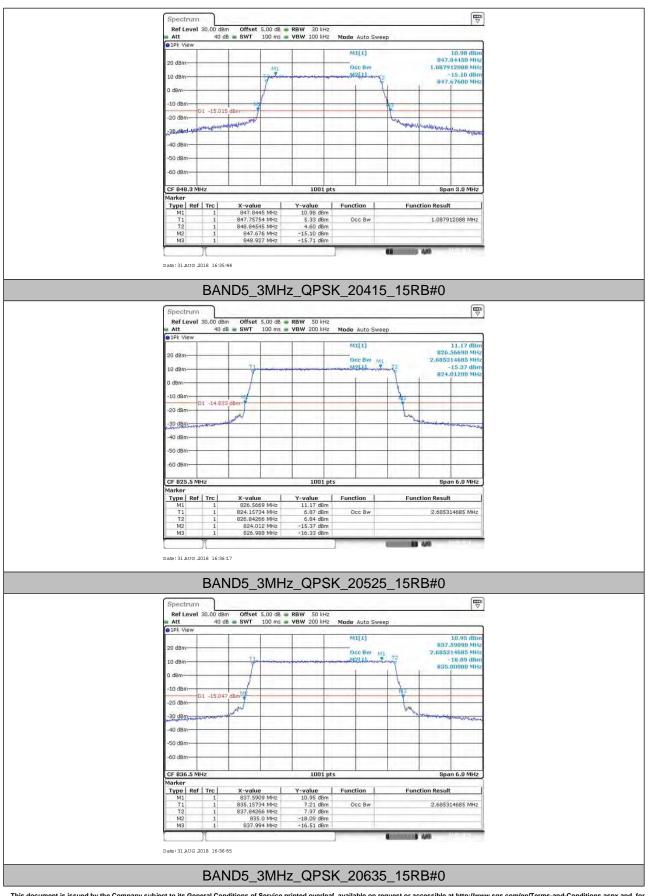


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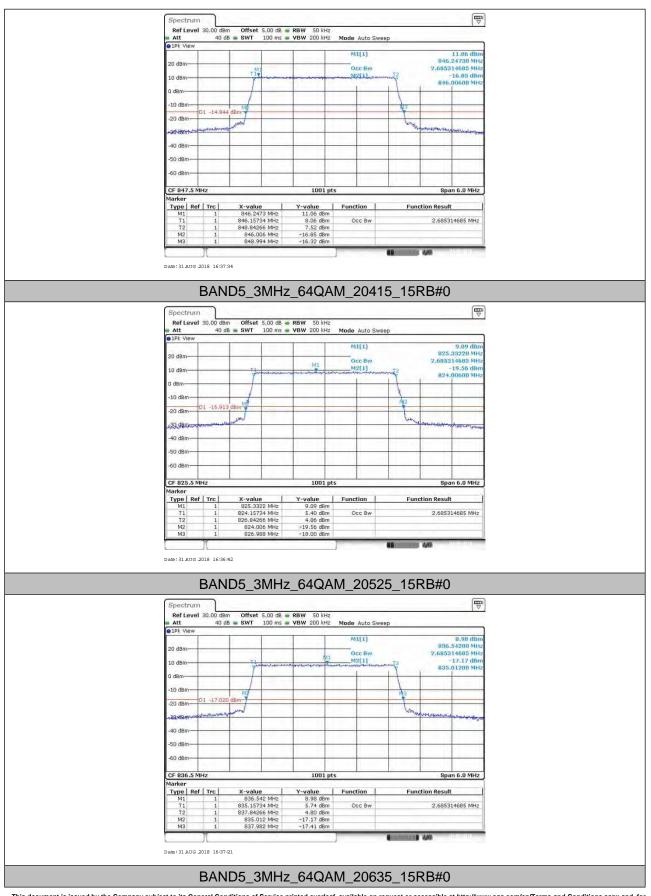


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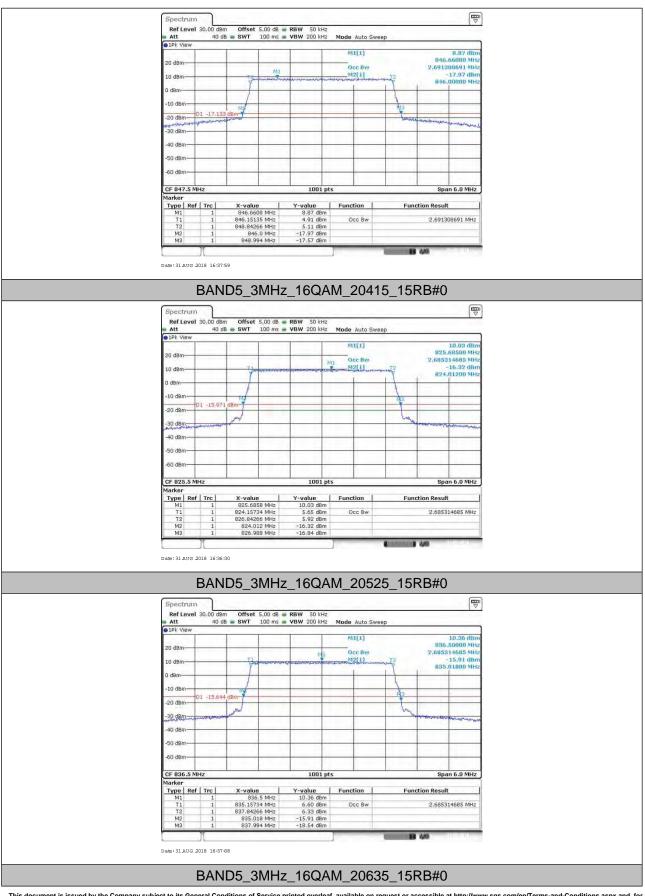


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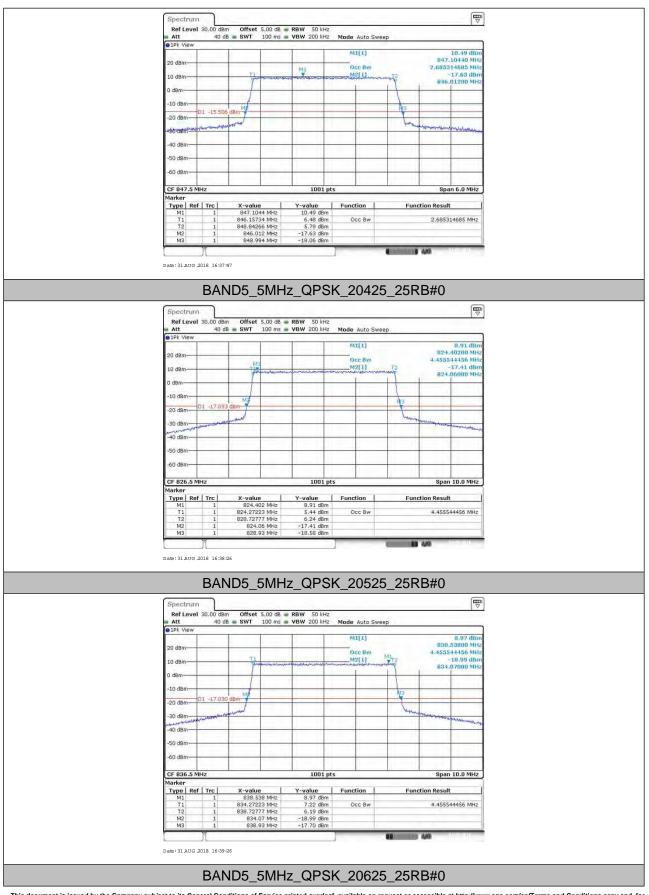


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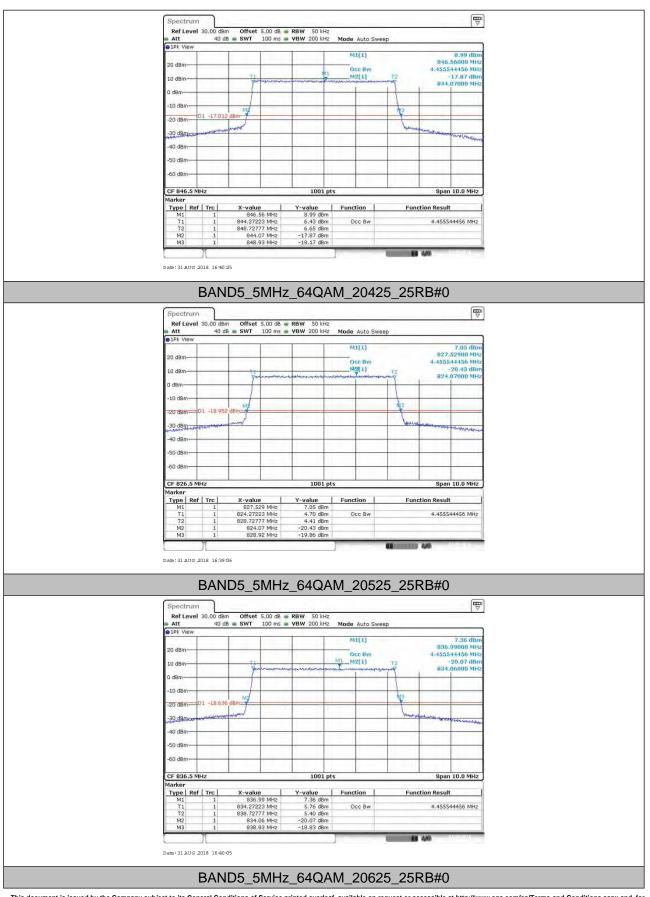


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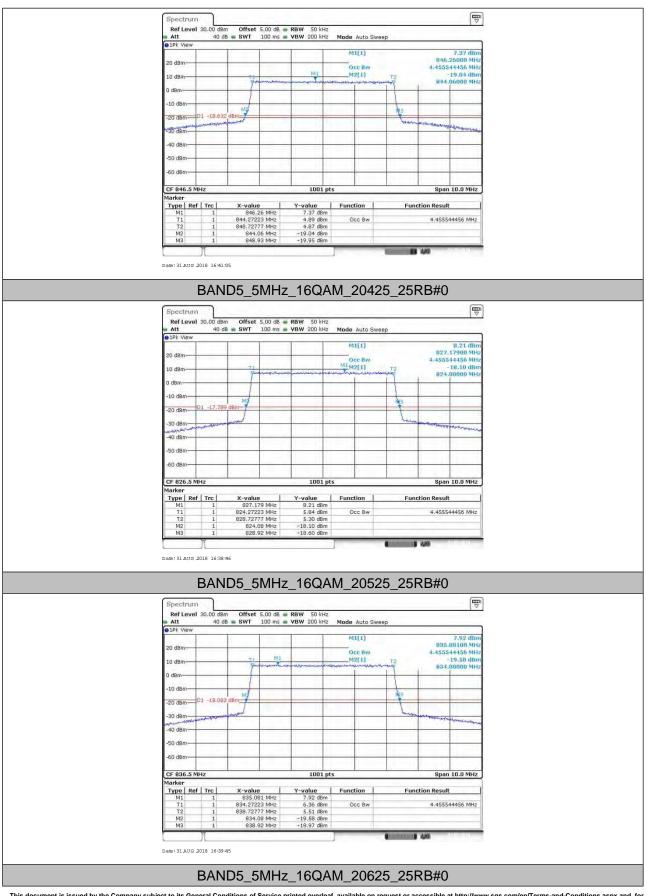


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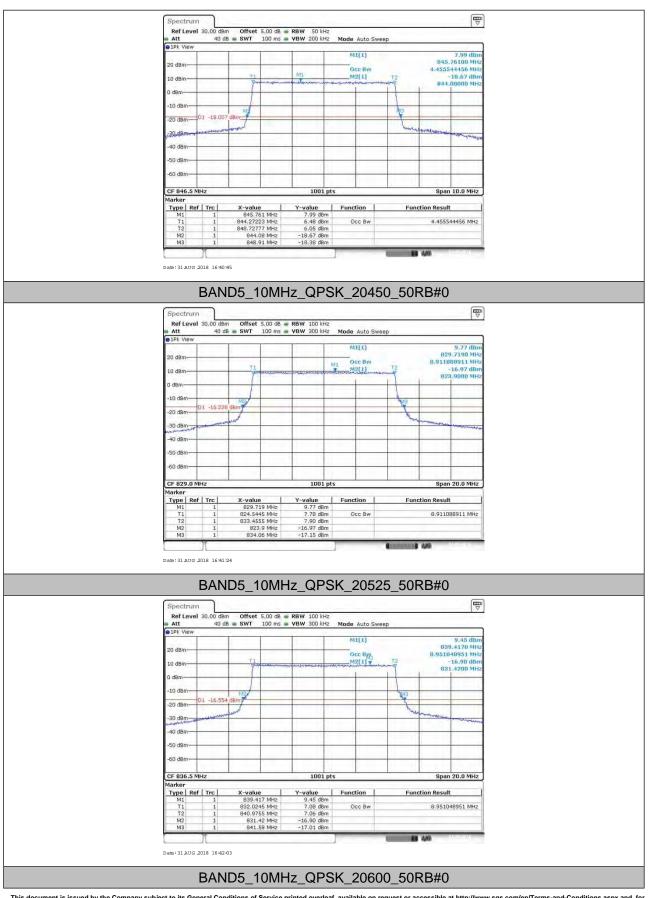


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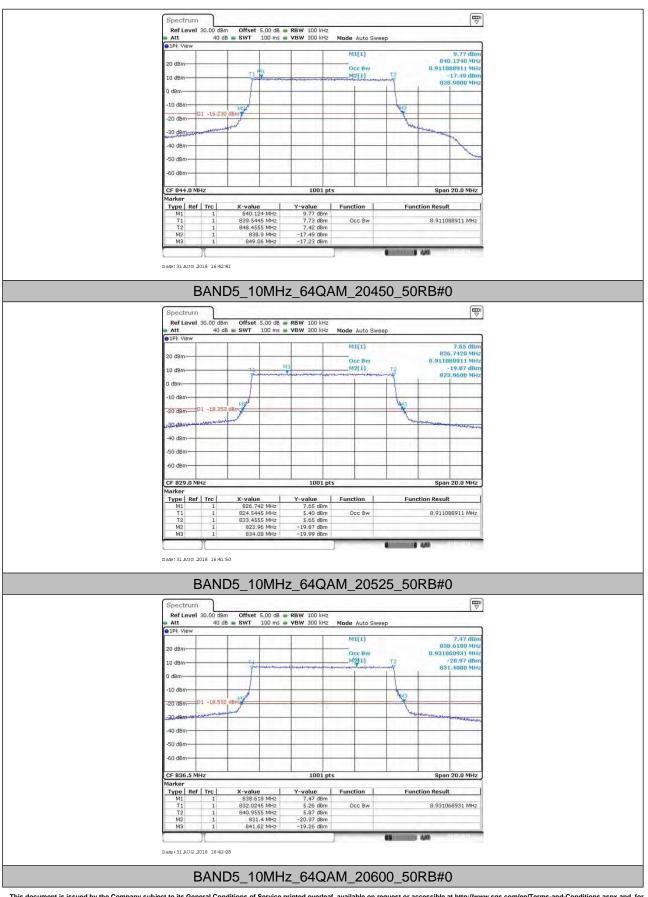


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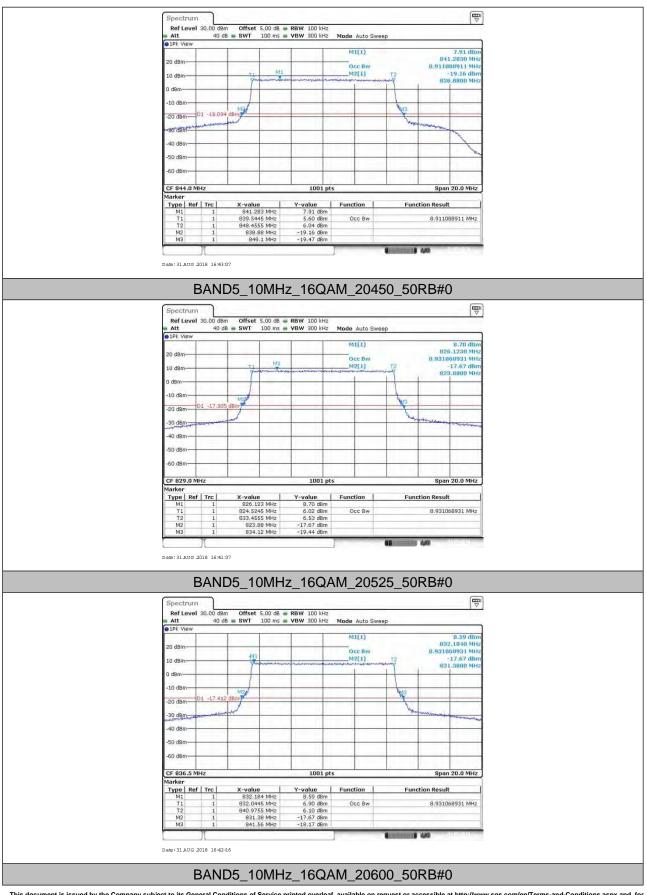


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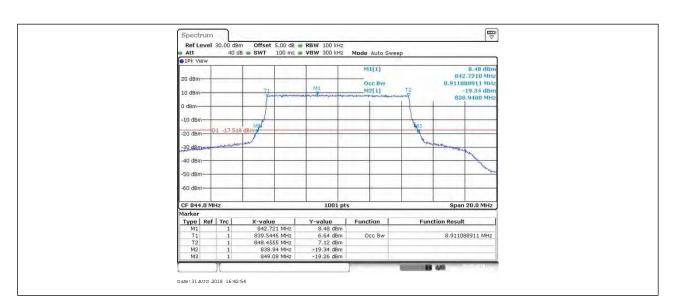


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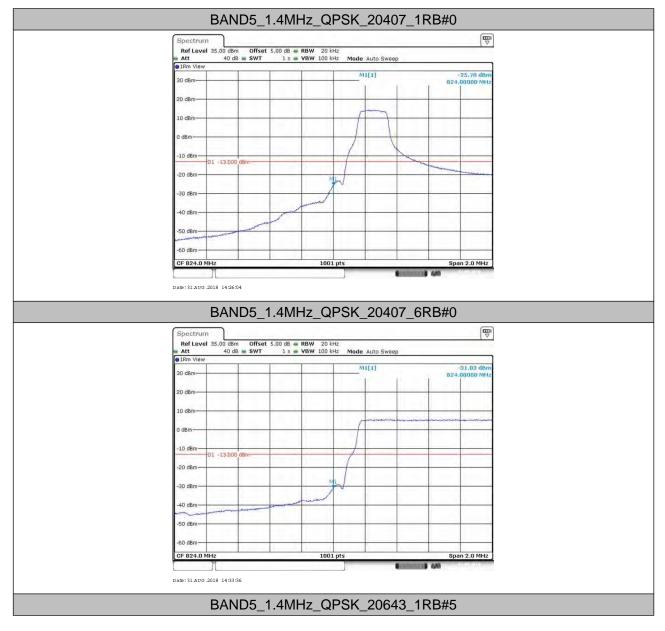




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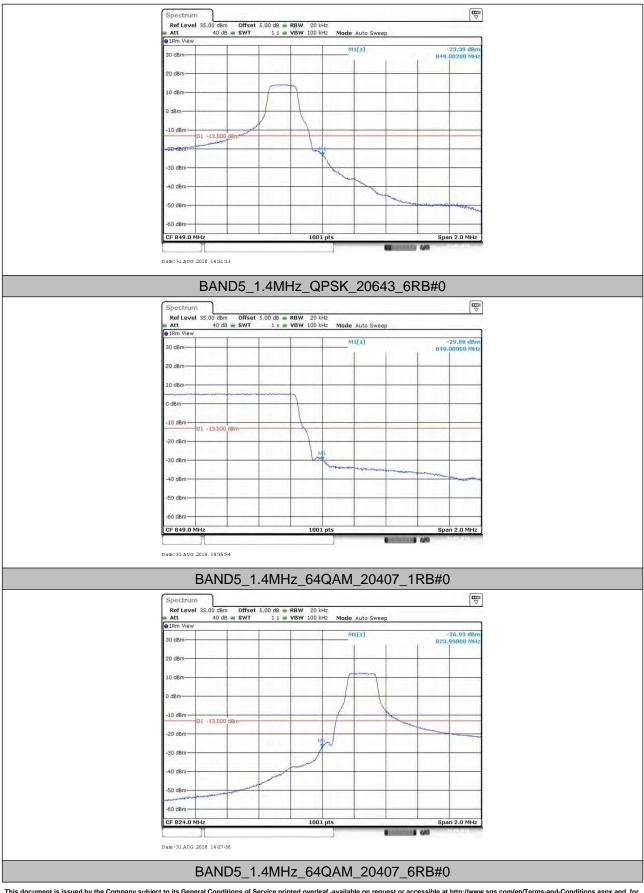
5. Band Edge Compliance

5.1.Test Plots



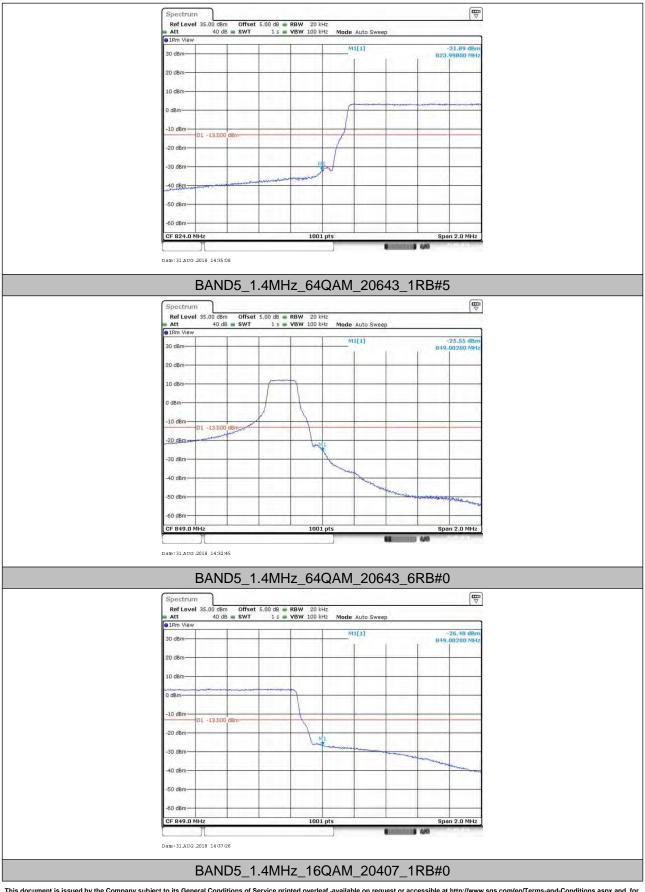


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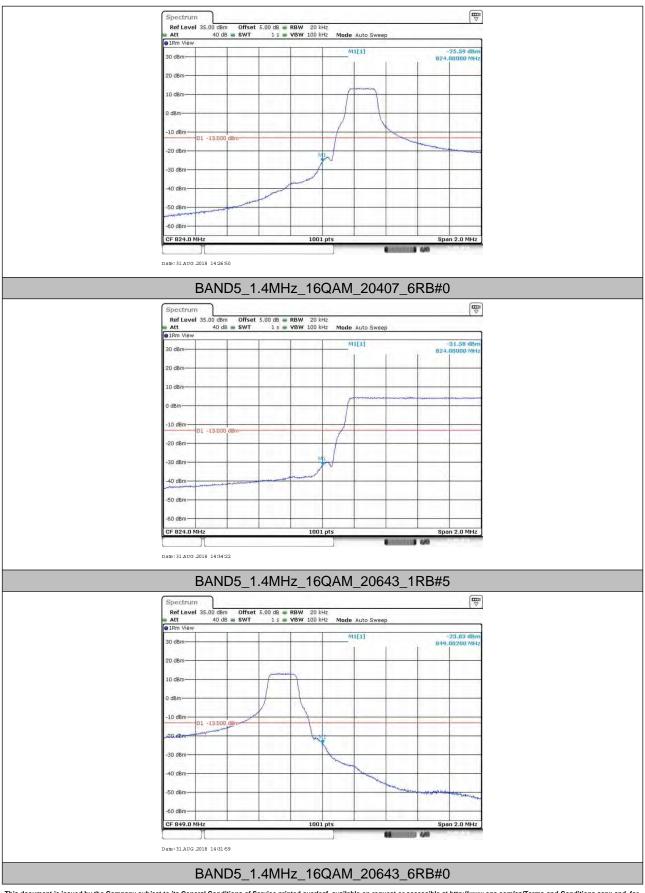


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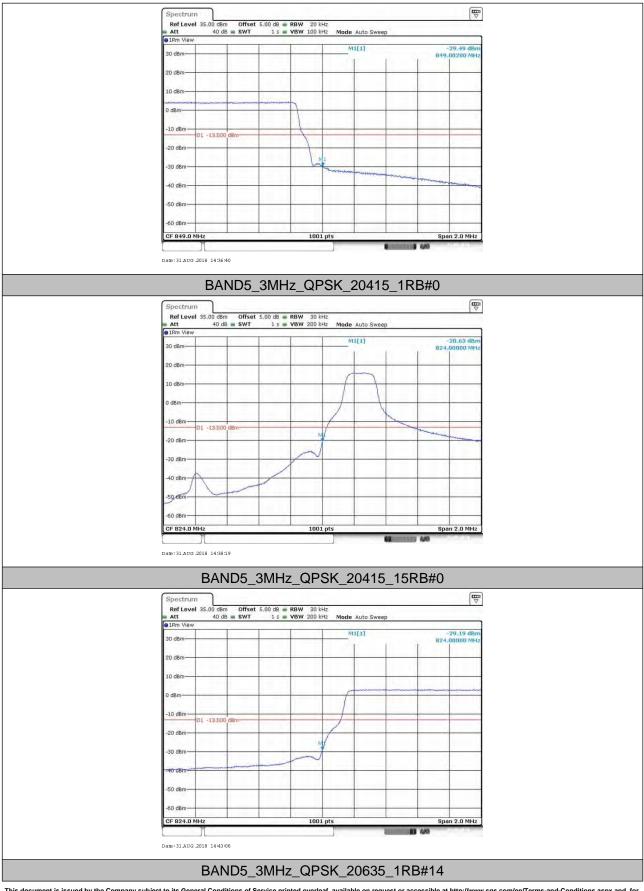


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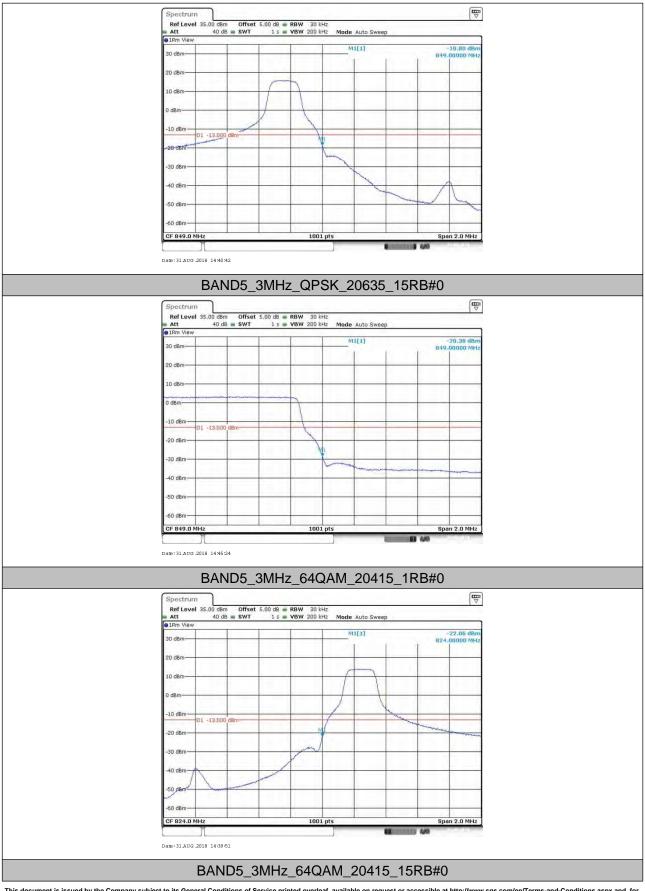


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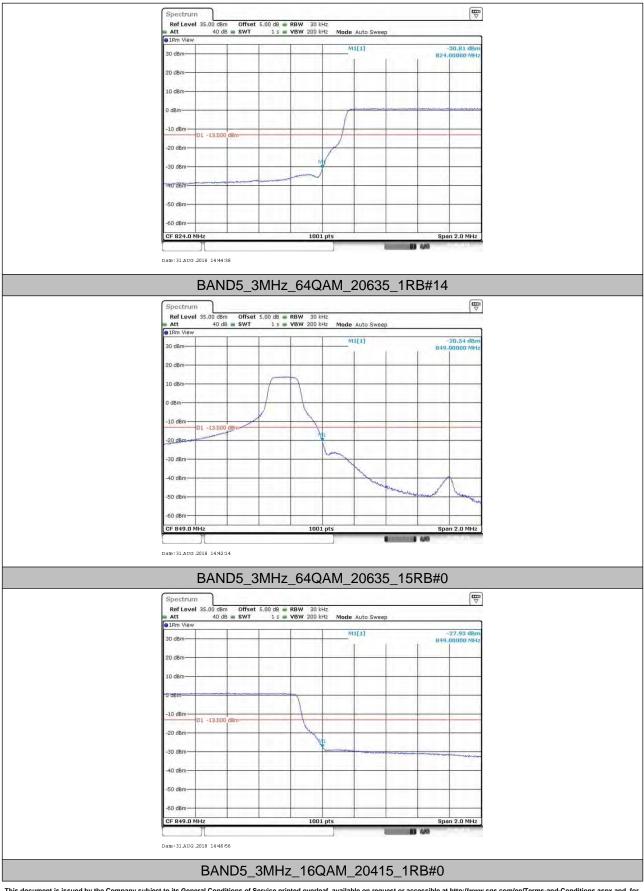


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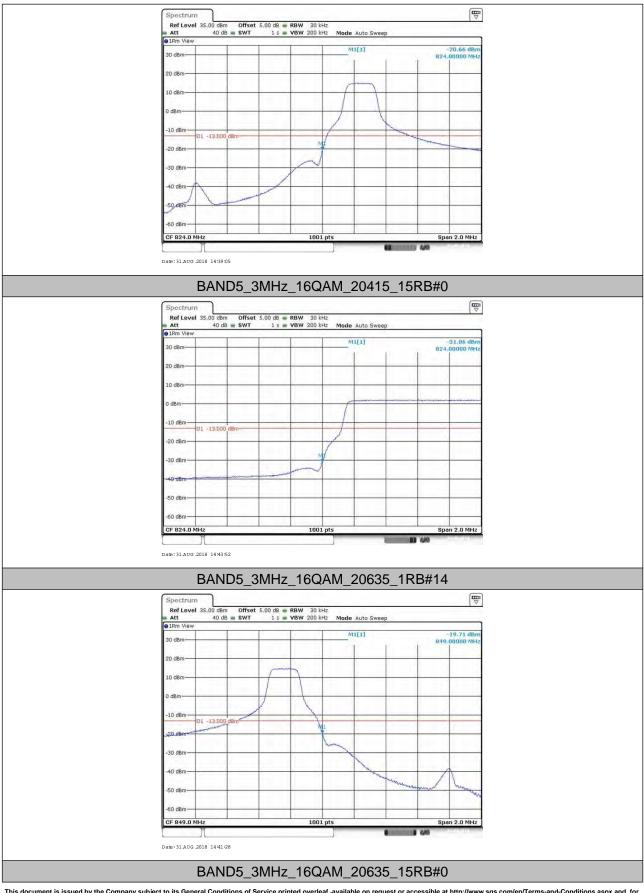


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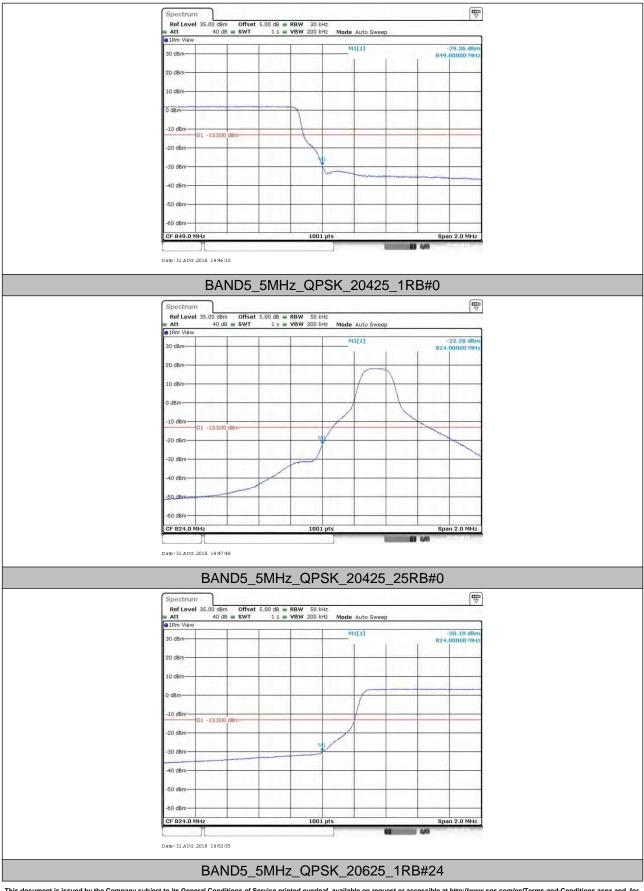


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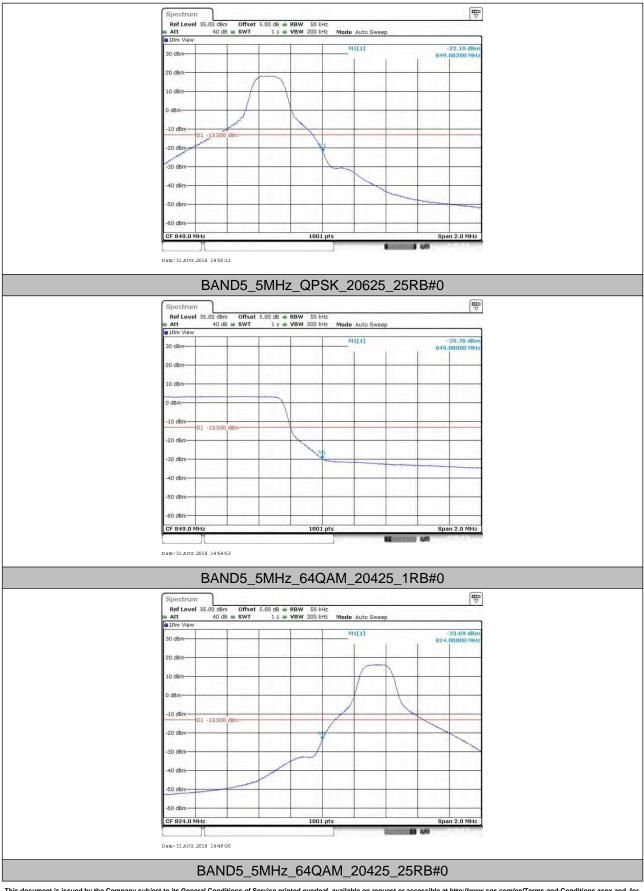


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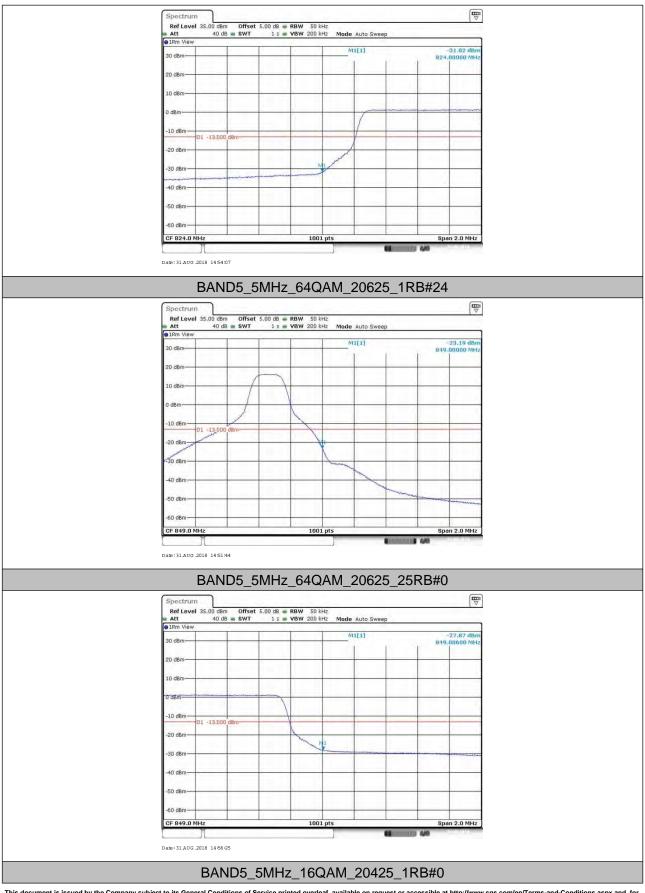


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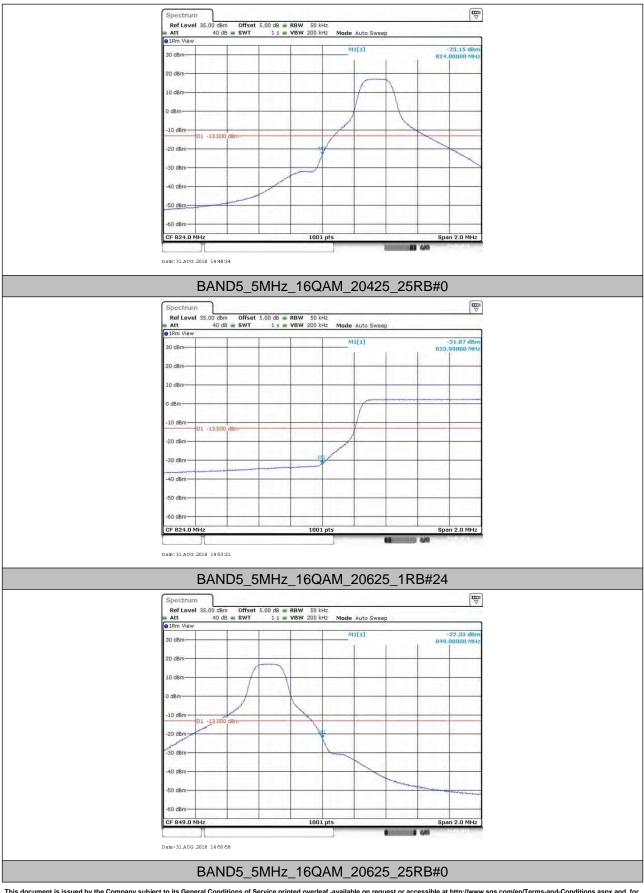


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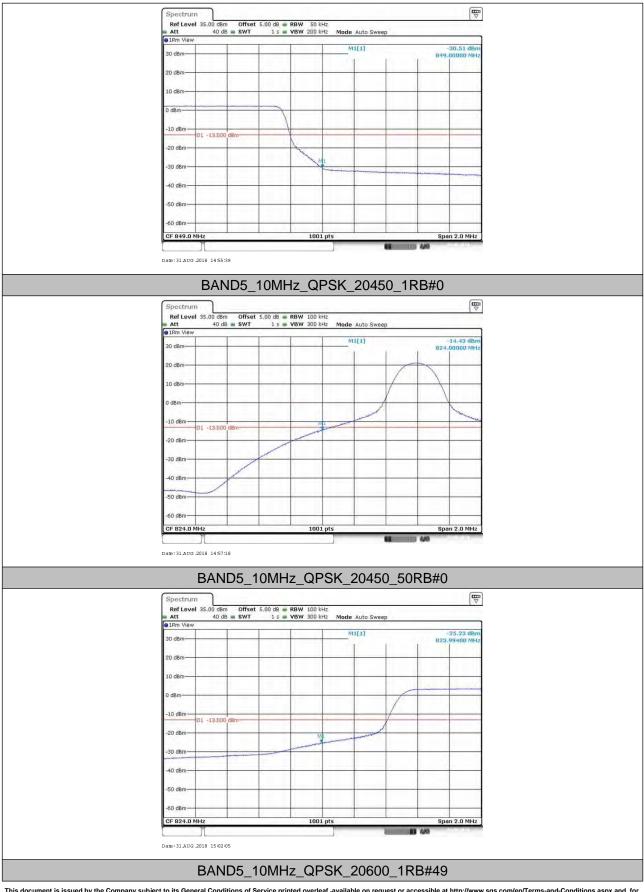


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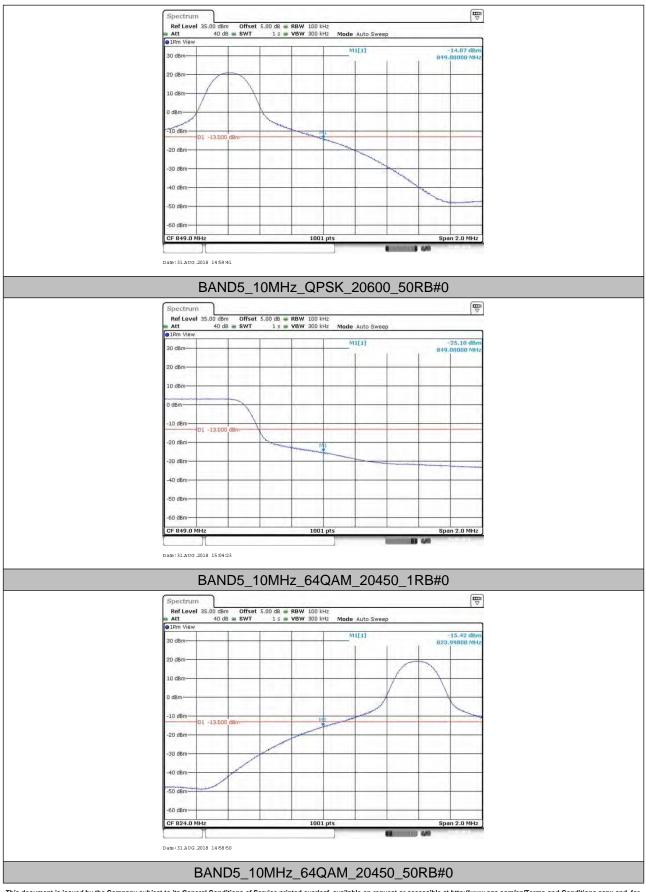


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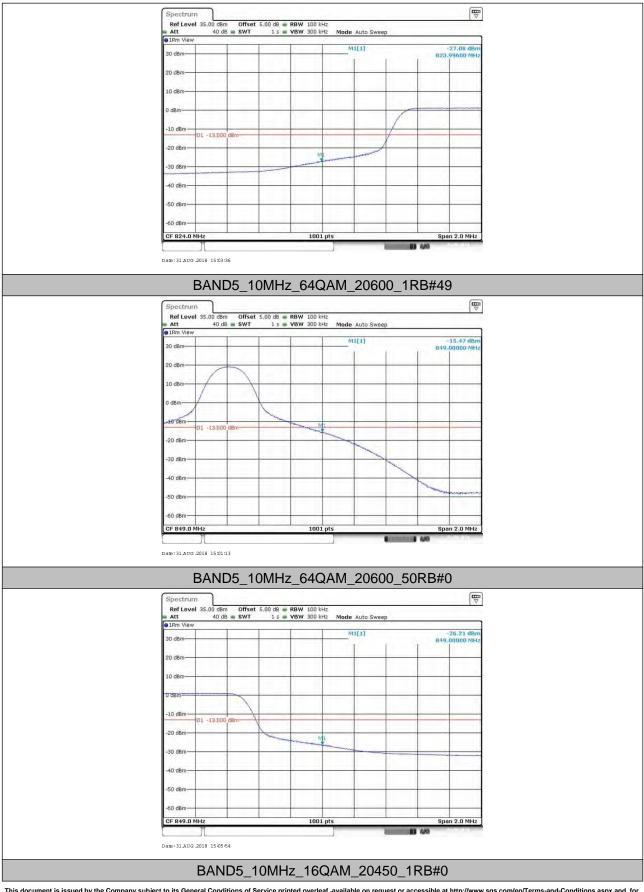


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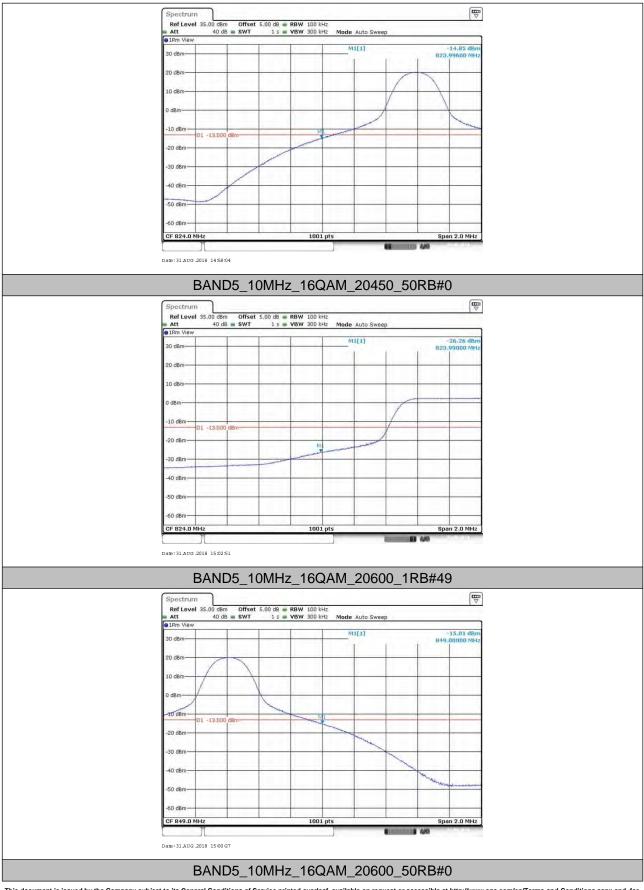


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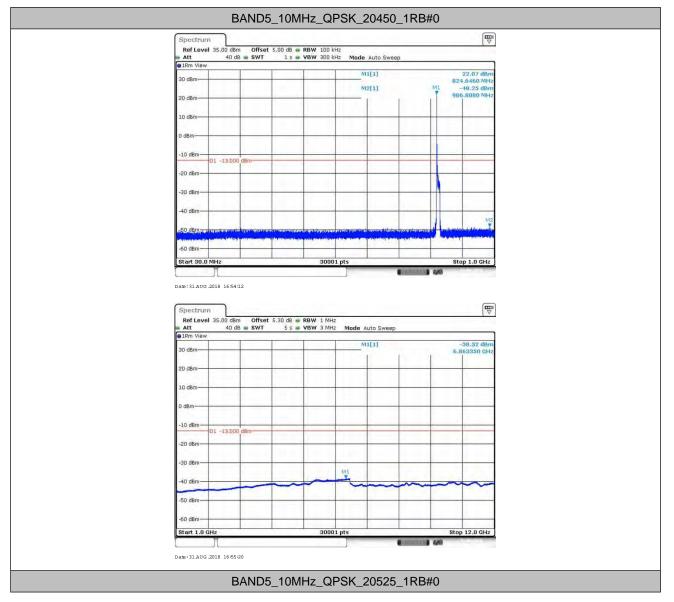


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6. Spurious Emission at Antenna Terminal

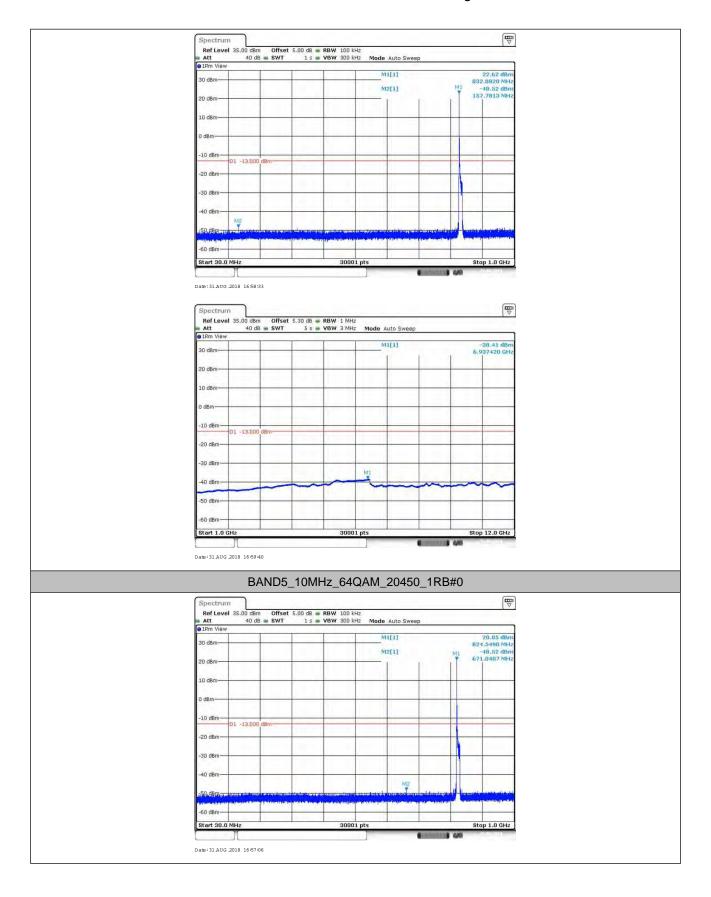
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB. Remark2: only the worst case data displayed in this report.

6.1.Test Plots



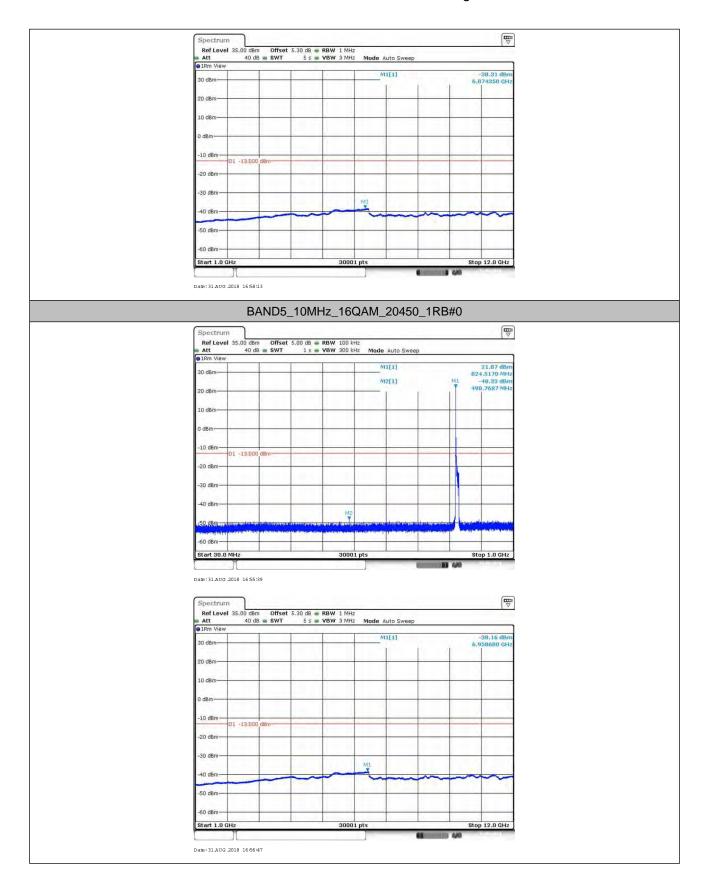


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7. Field Strength of Spurious Radiation

7.1.Test BAND = LTE BAND 5

7.1.1. Test Mode =LTE/TM1 10MHz

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
65.046667	-82.42	-13.00	69.42	Vertical
104.293333	-65.07	-13.00	52.07	Vertical
1648.500000	-65.40	-13.00	52.40	Vertical
4298.700000	-67.04	-13.00	54.04	Vertical
6048.337500	-65.14	-13.00	52.14	Vertical
7990.537500	-63.90	-13.00	50.90	Vertical
62.666667	-77.93	-13.00	64.93	Horizontal
104.293333	-81.09	-13.00	68.09	Horizontal
1645.000000	-65.55	-13.00	52.55	Horizontal
3520.650000	-69.15	-13.00	56.15	Horizontal
6028.837500	-65.50	-13.00	52.50	Horizontal
9265.350000	-63.68	-13.00	50.68	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.813333	-81.82	-13.00	68.82	Vertical
104.293333	-64.93	-13.00	51.93	Vertical
1663.500000	-65.10	-13.00	52.10	Vertical
3287.625000	-68.79	-13.00	55.79	Vertical
4267.012500	-67.14	-13.00	54.14	Vertical
7938.375000	-63.81	-13.00	50.81	Vertical
62.900000	-77.75	-13.00	64.75	Horizontal
104.293333	-80.32	-13.00	67.32	Horizontal
1657.000000	-65.12	-13.00	52.12	Horizontal
4338.187500	-67.10	-13.00	54.10	Horizontal



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6169.237500	-65.47	-13.00	52.47	Horizontal
8501.925000	-64.83	-13.00	51.83	Horizontal

7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.160000	-81.63	-13.00	68.63	Vertical
104.246667	-65.13	-13.00	52.13	Vertical
1684.000000	-64.77	-13.00	51.77	Vertical
4378.650000	-67.45	-13.00	54.45	Vertical
6057.112500	-65.09	-13.00	52.09	Vertical
9248.775000	-63.50	-13.00	50.50	Vertical
62.946667	-77.69	-13.00	64.69	Horizontal
104.293333	-81.07	-13.00	68.07	Horizontal
1679.000000	-64.99	-13.00	51.99	Horizontal
4249.462500	-67.16	-13.00	54.16	Horizontal
6053.212500	-65.48	-13.00	52.48	Horizontal
7953.487500	-63.81	-13.00	50.81	Horizontal

Remark:

1) The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.

2) We have tested all modulation and all Bandwidth, but only the worst case data presented in this report.



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8. Frequency Stability

8.1. Frequency Vs Voltage

Voltage										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltag e [Vdc]	Temperatur e (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdic t
BAND5	10MHz	QPSK	20450	50RB#0	VL	NT	1.20	0.001448	±2.5	PASS
BAND5	10MHz	QPSK	20450	50RB#0	VN	NT	5.00	0.006031	±2.5	PASS
BAND5	10MHz	QPSK	20450	50RB#0	VH	NT	2.40	0.002895	±2.5	PASS
BAND5	10MHz	QPSK	20525	50RB#0	VL	NT	5.80	0.006934	±2.5	PASS
BAND5	10MHz	QPSK	20525	50RB#0	VN	NT	5.80	0.006934	±2.5	PASS
BAND5	10MHz	QPSK	20525	50RB#0	VH	NT	2.50	0.002989	±2.5	PASS
BAND5	10MHz	QPSK	20600	50RB#0	VL	NT	1.50	0.001777	±2.5	PASS
BAND5	10MHz	QPSK	20600	50RB#0	VN	NT	7.50	0.008886	±2.5	PASS
BAND5	10MHz	QPSK	20600	50RB#0	VH	NT	4.20	0.004976	±2.5	PASS
BAND5	10MHz	64QAM	20450	50RB#0	VL	NT	2.20	0.002654	±2.5	PASS
BAND5	10MHz	64QAM	20450	50RB#0	VN	NT	0.40	0.000483	±2.5	PASS
BAND5	10MHz	64QAM	20450	50RB#0	VH	NT	1.40	0.001689	±2.5	PASS
BAND5	10MHz	64QAM	20525	50RB#0	VL	NT	3.10	0.003706	±2.5	PASS
BAND5	10MHz	64QAM	20525	50RB#0	VN	NT	5.50	0.006575	±2.5	PASS
BAND5	10MHz	64QAM	20525	50RB#0	VH	NT	1.40	0.001674	±2.5	PASS
BAND5	10MHz	64QAM	20600	50RB#0	VL	NT	2.30	0.002725	±2.5	PASS
BAND5	10MHz	64QAM	20600	50RB#0	VN	NT	1.50	0.001777	±2.5	PASS
BAND5	10MHz	64QAM	20600	50RB#0	VH	NT	1.00	0.001185	±2.5	PASS
BAND5	10MHz	16QAM	20450	50RB#0	VL	NT	2.40	0.002895	±2.5	PASS
BAND5	10MHz	16QAM	20450	50RB#0	VN	NT	2.80	0.003378	±2.5	PASS
BAND5	10MHz	16QAM	20450	50RB#0	VH	NT	3.90	0.004704	±2.5	PASS
BAND5	10MHz	16QAM	20525	50RB#0	VL	NT	4.90	0.005858	±2.5	PASS
BAND5	10MHz	16QAM	20525	50RB#0	VN	NT	3.30	0.003945	±2.5	PASS
BAND5	10MHz	16QAM	20525	50RB#0	VH	NT	4.30	0.005140	±2.5	PASS
BAND5	10MHz	16QAM	20600	50RB#0	VL	NT	8.40	0.009953	±2.5	PASS
BAND5	10MHz	16QAM	20600	50RB#0	VN	NT	3.90	0.004621	±2.5	PASS
BAND5	10MHz	16QAM	20600	50RB#0	VH	NT	5.70	0.006754	±2.5	PASS

8.2. Frequency Vs Temperature

	Temperature										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltag e [Vdc]	Temperatur e (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdic t	
BAND5	10MHz	QPSK	20450	50RB#0	NV	-30	4.90	0.005911	±2.5	PASS	
BAND5	10MHz	QPSK	20450	50RB#0	NV	-20	3.60	0.004343	±2.5	PASS	
BAND5	10MHz	QPSK	20450	50RB#0	NV	-10	4.80	0.005790	±2.5	PASS	
BAND5	10MHz	QPSK	20450	50RB#0	NV	0	2.70	0.003257	±2.5	PASS	
BAND5	10MHz	QPSK	20450	50RB#0	NV	10	2.30	0.002774	±2.5	PASS	
BAND5	10MHz	QPSK	20450	50RB#0	NV	20	-0.30	-0.000362	±2.5	PASS	
BAND5	10MHz	QPSK	20450	50RB#0	NV	30	7.80	0.009409	±2.5	PASS	



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		OPer	20450		ND/	40	4.60	0.005540	125	DAGG
BAND5	10MHz	QPSK	20450	50RB#0	NV	40	4.60	0.005549	±2.5	PASS
BAND5	10MHz	QPSK	20450	50RB#0	NV	50	6.00	0.007238	±2.5	PASS
BAND5	10MHz	QPSK	20525	50RB#0	NV	-30	2.30	0.002750	±2.5	PASS
BAND5	10MHz	QPSK	20525	50RB#0	NV	-20	2.70	0.003228	±2.5	PASS
BAND5	10MHz	QPSK	20525	50RB#0	NV	-10	6.70	0.008010	±2.5	PASS
BAND5	10MHz	QPSK	20525	50RB#0	NV	0	2.20	0.002630	±2.5	PASS
BAND5	10MHz	QPSK	20525	50RB#0	NV	10	1.60	0.001913	±2.5	PASS
BAND5	10MHz	QPSK	20525	50RB#0	NV	20	3.00	0.003586	±2.5	PASS
BAND5	10MHz	QPSK	20525	50RB#0	NV	30	6.50	0.007770	±2.5	PASS
BAND5	10MHz	QPSK	20525	50RB#0	NV	40	4.20	0.005021	±2.5	PASS
BAND5	10MHz	QPSK	20525	50RB#0	NV	50	3.60	0.004304	±2.5	PASS
BAND5	10MHz	QPSK	20600	50RB#0	NV	-30	2.30	0.002725	±2.5	PASS
BAND5	10MHz	QPSK	20600	50RB#0	NV	-20	8.70	0.010308	±2.5	PASS
BAND5	10MHz	QPSK	20600	50RB#0	NV	-10	6.80	0.008057	±2.5	PASS
BAND5	10MHz	QPSK	20600	50RB#0	NV	0	6.40	0.007583	±2.5	PASS
BAND5	10MHz	QPSK	20600	50RB#0	NV	10	3.50	0.004147	±2.5	PASS
BAND5	10MHz	QPSK	20600	50RB#0	NV	20	2.50	0.002962	±2.5	PASS
BAND5	10MHz	QPSK	20600	50RB#0	NV	30	2.60	0.003081	±2.5	PASS
BAND5	10MHz	QPSK	20600	50RB#0	NV	40	3.80	0.004502	±2.5	PASS
BAND5	10MHz	QPSK	20600	50RB#0	NV	50	6.40	0.007583	±2.5	PASS
BAND5	10MHz	64QAM	20450	50RB#0	NV	-30	2.40	0.002895	±2.5	PASS
BAND5	10MHz	64QAM	20450	50RB#0	NV	-20	2.60	0.003136	±2.5	PASS
BAND5	10MHz	64QAM	20450	50RB#0	NV	-10	2.70	0.003257	±2.5	PASS
BAND5	10MHz	64QAM	20450	50RB#0	NV	0	2.70	0.003257	±2.5	PASS
BAND5	10MHz	64QAM	20450	50RB#0	NV	10	1.50	0.001809	±2.5	PASS
BAND5	10MHz	64QAM	20450	50RB#0	NV	20	3.70	0.004463	±2.5	PASS
BAND5	10MHz	64QAM	20450	50RB#0	NV	30	0.20	0.000241	±2.5	PASS
BAND5	10MHz	64QAM	20450	50RB#0	NV	40	4.50	0.005428	±2.5	PASS
BAND5	10MHz	64QAM	20450	50RB#0	NV	50	3.40	0.004101	±2.5	PASS
BAND5	10MHz	64QAM	20525	50RB#0	NV	-30	2.70	0.003228	±2.5	PASS
BAND5	10MHz	64QAM	20525	50RB#0	NV	-20	2.70	0.003228	±2.5	PASS
BAND5	10MHz	64QAM	20525	50RB#0	NV	-10	6.70	0.008010	±2.5	PASS
BAND5	10MHz	64QAM	20525	50RB#0	NV	0	3.40	0.004065	±2.5	PASS
BAND5	10MHz	64QAM	20525	50RB#0	NV	10	2.30	0.002750	±2.5	PASS
BAND5	10MHz	64QAM	20525	50RB#0	NV	20	3.90	0.004662	±2.5	PASS
BAND5	10MHz	64QAM	20525	50RB#0	NV	30	2.70	0.003228	±2.5	PASS
BAND5	10MHz	64QAM	20525	50RB#0	NV	40	6.40	0.007651	±2.5	PASS
BAND5	10MHz	64QAM	20525	50RB#0	NV	50	2.10	0.002510	±2.5	PASS
BAND5	10MHz	64QAM	20600	50RB#0	NV	-30	5.30	0.006280	±2.5	PASS
BAND5	10MHz	64QAM	20600	50RB#0	NV	-20	4.80	0.005687	±2.5	PASS
BAND5	10MHz	64QAM	20600	50RB#0	NV	-10	2.20	0.002607	±2.5	PASS
BAND5	10MHz	64QAM	20600	50RB#0	NV	0	3.80	0.004502	±2.5	PASS
BAND5	10MHz	64QAM	20600	50RB#0	NV	10	3.10	0.003673	±2.5	PASS
BAND5	10MHz	64QAM	20600	50RB#0	NV	20	5.80	0.006872	±2.5	PASS
BAND5	10MHz	64QAM	20600	50RB#0	NV	30	4.10	0.004858	±2.5	PASS
BAND5	10MHz	64QAM	20600	50RB#0	NV	40	2.70	0.003199	±2.5	PASS
BAND5	10MHz	64QAM	20600	50RB#0	NV	50	2.60	0.003081	±2.5	PASS
BAND5	10MHz	16QAM	20450	50RB#0	NV	-30	2.00	0.002413	±2.5	PASS
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BAND5	10MHz	16QAM	20450	50RB#0	NV	-20	6.90	0.008323	±2.5	PASS
BAND5	10MHz	16QAM	20450	50RB#0	NV	-10	3.00	0.003619	±2.5	PASS
BAND5	10MHz	16QAM	20450	50RB#0	NV	0	0.80	0.000965	±2.5	PASS
BAND5	10MHz	16QAM	20450	50RB#0	NV	10	2.10	0.002533	±2.5	PASS
BAND5	10MHz	16QAM	20450	50RB#0	NV	20	3.70	0.004463	±2.5	PASS
BAND5	10MHz	16QAM	20450	50RB#0	NV	30	2.60	0.003136	±2.5	PASS
BAND5	10MHz	16QAM	20450	50RB#0	NV	40	2.90	0.003498	±2.5	PASS
BAND5	10MHz	16QAM	20450	50RB#0	NV	50	1.90	0.002292	±2.5	PASS
BAND5	10MHz	16QAM	20525	50RB#0	NV	-30	7.00	0.008368	±2.5	PASS
BAND5	10MHz	16QAM	20525	50RB#0	NV	-20	4.50	0.005380	±2.5	PASS
BAND5	10MHz	16QAM	20525	50RB#0	NV	-10	1.60	0.001913	±2.5	PASS
BAND5	10MHz	16QAM	20525	50RB#0	NV	0	3.50	0.004184	±2.5	PASS
BAND5	10MHz	16QAM	20525	50RB#0	NV	10	3.30	0.003945	±2.5	PASS
BAND5	10MHz	16QAM	20525	50RB#0	NV	20	2.00	0.002391	±2.5	PASS
BAND5	10MHz	16QAM	20525	50RB#0	NV	30	3.00	0.003586	±2.5	PASS
BAND5	10MHz	16QAM	20525	50RB#0	NV	40	5.00	0.005977	±2.5	PASS
BAND5	10MHz	16QAM	20525	50RB#0	NV	50	3.30	0.003945	±2.5	PASS
BAND5	10MHz	16QAM	20600	50RB#0	NV	-30	3.50	0.004147	±2.5	PASS
BAND5	10MHz	16QAM	20600	50RB#0	NV	-20	4.70	0.005569	±2.5	PASS
BAND5	10MHz	16QAM	20600	50RB#0	NV	-10	1.70	0.002014	±2.5	PASS
BAND5	10MHz	16QAM	20600	50RB#0	NV	0	3.50	0.004147	±2.5	PASS
BAND5	10MHz	16QAM	20600	50RB#0	NV	10	3.20	0.003791	±2.5	PASS
BAND5	10MHz	16QAM	20600	50RB#0	NV	20	0.30	0.000355	±2.5	PASS
BAND5	10MHz	16QAM	20600	50RB#0	NV	30	5.90	0.006991	±2.5	PASS
BAND5	10MHz	16QAM	20600	50RB#0	NV	40	7.30	0.008649	±2.5	PASS
BAND5	10MHz	16QAM	20600	50RB#0	NV	50	2.50	0.002962	±2.5	PASS

The End