

11BE160MIMO	Ant2	6665	NV	5	0.00	0.000000	20	PASS
11BE160MIMO	Ant2	6665	NV	10	0.00	0.000000	20	PASS
11BE160MIMO	Ant2	6665	NV	15	0.00	0.000000	20	PASS
11BE160MIMO	Ant2	6665	NV	20	0.00	0.000000	20	PASS
11BE160MIMO	Ant2	6665	NV	25	0.00	0.000000	20	PASS
11BE160MIMO	Ant2	6665	NV	30	0.00	0.000000	20	PASS
11BE160MIMO	Ant2	6665	NV	35	0.00	0.000000	20	PASS
11BE160MIMO	Ant2	6665	NV	40	0.00	0.000000	20	PASS
11BE160MIMO	Ant3	6665	NV	0	0.00	0.000000	20	PASS
11BE160MIMO	Ant3	6665	NV	5	0.00	0.000000	20	PASS
11BE160MIMO	Ant3	6665	NV	10	0.00	0.000000	20	PASS
11BE160MIMO	Ant3	6665	NV	15	0.00	0.000000	20	PASS
11BE160MIMO	Ant3	6665	NV	20	0.00	0.000000	20	PASS
11BE160MIMO	Ant3	6665	NV	25	0.00	0.000000	20	PASS
11BE160MIMO	Ant3	6665	NV	30	0.00	0.000000	20	PASS
11BE160MIMO	Ant3	6665	NV	35	0.00	0.000000	20	PASS
11BE160MIMO	Ant3	6665	NV	40	0.00	0.000000	20	PASS
11BE160MIMO	Ant4	6665	NV	0	0.00	0.000000	20	PASS
11BE160MIMO	Ant4	6665	NV	5	0.00	0.000000	20	PASS
11BE160MIMO	Ant4	6665	NV	10	0.00	0.000000	20	PASS
11BE160MIMO	Ant4	6665	NV	15	0.00	0.000000	20	PASS
11BE160MIMO	Ant4	6665	NV	20	0.00	0.000000	20	PASS
11BE160MIMO	Ant4	6665	NV	25	0.00	0.000000	20	PASS
11BE160MIMO	Ant4	6665	NV	30	0.00	0.000000	20	PASS
11BE160MIMO	Ant4	6665	NV	35	0.00	0.000000	20	PASS
11BE160MIMO	Ant4	6665	NV	40	0.00	0.000000	20	PASS
11BE160MIMO	Ant1	6825	NV	0	0.00	0.000000	20	PASS
11BE160MIMO	Ant1	6825	NV	5	0.00	0.000000	20	PASS
11BE160MIMO	Ant1	6825	NV	10	0.00	0.000000	20	PASS
11BE160MIMO	Ant1	6825	NV	15	0.00	0.000000	20	PASS
11BE160MIMO	Ant1	6825	NV	20	0.00	0.000000	20	PASS
11BE160MIMO	Ant1	6825	NV	25	0.00	0.000000	20	PASS
11BE160MIMO	Ant1	6825	NV	30	0.00	0.000000	20	PASS
11BE160MIMO	Ant1	6825	NV	35	0.00	0.000000	20	PASS
11BE160MIMO	Ant1	6825	NV	40	0.00	0.000000	20	PASS
11BE160MIMO	Ant2	6825	NV	0	0.00	0.000000	20	PASS
11BE160MIMO	Ant2	6825	NV	5	0.00	0.000000	20	PASS
11BE160MIMO	Ant2	6825	NV	10	0.00	0.000000	20	PASS
11BE160MIMO	Ant2	6825	NV	15	0.00	0.000000	20	PASS
11BE160MIMO	Ant2	6825	NV	20	0.00	0.000000	20	PASS
11BE160MIMO	Ant2	6825	NV	25	0.00	0.000000	20	PASS
11BE160MIMO	Ant2	6825	NV	30	0.00	0.000000	20	PASS
11BE160MIMO	Ant2	6825	NV	35	0.00	0.000000	20	PASS

11BE160MIMO	Ant2	6825	NV	40	0.00	0.000000	20	PASS
11BE160MIMO	Ant3	6825	NV	0	0.00	0.000000	20	PASS
11BE160MIMO	Ant3	6825	NV	5	0.00	0.000000	20	PASS
11BE160MIMO	Ant3	6825	NV	10	0.00	0.000000	20	PASS
11BE160MIMO	Ant3	6825	NV	15	0.00	0.000000	20	PASS
11BE160MIMO	Ant3	6825	NV	20	0.00	0.000000	20	PASS
11BE160MIMO	Ant3	6825	NV	25	0.00	0.000000	20	PASS
11BE160MIMO	Ant3	6825	NV	30	0.00	0.000000	20	PASS
11BE160MIMO	Ant3	6825	NV	35	0.00	0.000000	20	PASS
11BE160MIMO	Ant3	6825	NV	40	0.00	0.000000	20	PASS
11BE160MIMO	Ant4	6825	NV	0	0.00	0.000000	20	PASS
11BE160MIMO	Ant4	6825	NV	5	0.00	0.000000	20	PASS
11BE160MIMO	Ant4	6825	NV	10	0.00	0.000000	20	PASS
11BE160MIMO	Ant4	6825	NV	15	0.00	0.000000	20	PASS
11BE160MIMO	Ant4	6825	NV	20	0.00	0.000000	20	PASS
11BE160MIMO	Ant4	6825	NV	25	0.00	0.000000	20	PASS
11BE160MIMO	Ant4	6825	NV	30	0.00	0.000000	20	PASS
11BE160MIMO	Ant4	6825	NV	35	0.00	0.000000	20	PASS
11BE160MIMO	Ant4	6825	NV	40	0.00	0.000000	20	PASS
11BE160MIMO	Ant1	6985	NV	0	0.00	0.000000	20	PASS
11BE160MIMO	Ant1	6985	NV	5	0.00	0.000000	20	PASS
11BE160MIMO	Ant1	6985	NV	10	0.00	0.000000	20	PASS
11BE160MIMO	Ant1	6985	NV	15	0.00	0.000000	20	PASS
11BE160MIMO	Ant1	6985	NV	20	0.00	0.000000	20	PASS
11BE160MIMO	Ant1	6985	NV	25	0.00	0.000000	20	PASS
11BE160MIMO	Ant1	6985	NV	30	0.00	0.000000	20	PASS
11BE160MIMO	Ant1	6985	NV	35	0.00	0.000000	20	PASS
11BE160MIMO	Ant1	6985	NV	40	0.00	0.000000	20	PASS
11BE160MIMO	Ant2	6985	NV	0	0.00	0.000000	20	PASS
11BE160MIMO	Ant2	6985	NV	5	0.00	0.000000	20	PASS
11BE160MIMO	Ant2	6985	NV	10	0.00	0.000000	20	PASS
11BE160MIMO	Ant2	6985	NV	15	0.00	0.000000	20	PASS
11BE160MIMO	Ant2	6985	NV	20	0.00	0.000000	20	PASS
11BE160MIMO	Ant2	6985	NV	25	0.00	0.000000	20	PASS
11BE160MIMO	Ant2	6985	NV	30	0.00	0.000000	20	PASS
11BE160MIMO	Ant2	6985	NV	35	0.00	0.000000	20	PASS
11BE160MIMO	Ant2	6985	NV	40	0.00	0.000000	20	PASS
11BE160MIMO	Ant3	6985	NV	0	0.00	0.000000	20	PASS
11BE160MIMO	Ant3	6985	NV	5	0.00	0.000000	20	PASS
11BE160MIMO	Ant3	6985	NV	10	0.00	0.000000	20	PASS
11BE160MIMO	Ant3	6985	NV	15	0.00	0.000000	20	PASS
11BE160MIMO	Ant3	6985	NV	20	0.00	0.000000	20	PASS
11BE160MIMO	Ant3	6985	NV	25	0.00	0.000000	20	PASS

11BE160MIMO	Ant3	6985	NV	30	0.00	0.000000	20	PASS
11BE160MIMO	Ant3	6985	NV	35	0.00	0.000000	20	PASS
11BE160MIMO	Ant3	6985	NV	40	0.00	0.000000	20	PASS
11BE160MIMO	Ant4	6985	NV	0	0.00	0.000000	20	PASS
11BE160MIMO	Ant4	6985	NV	5	0.00	0.000000	20	PASS
11BE160MIMO	Ant4	6985	NV	10	0.00	0.000000	20	PASS
11BE160MIMO	Ant4	6985	NV	15	0.00	0.000000	20	PASS
11BE160MIMO	Ant4	6985	NV	20	0.00	0.000000	20	PASS
11BE160MIMO	Ant4	6985	NV	25	0.00	0.000000	20	PASS
11BE160MIMO	Ant4	6985	NV	30	0.00	0.000000	20	PASS
11BE160MIMO	Ant4	6985	NV	35	0.00	0.000000	20	PASS
11BE160MIMO	Ant4	6985	NV	40	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6105	NV	0	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6105	NV	5	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6105	NV	10	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6105	NV	15	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6105	NV	20	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6105	NV	25	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6105	NV	30	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6105	NV	35	0.00	0.000000	20	PASS
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11BE320MIMO	Ant2	6105	NV	0	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6105	NV	5	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6105	NV	10	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6105	NV	15	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6105	NV	20	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6105	NV	25	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6105	NV	30	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6105	NV	35	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6105	NV	40	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6105	NV	0	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6105	NV	5	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6105	NV	10	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6105	NV	15	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6105	NV	20	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6105	NV	25	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6105	NV	30	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6105	NV	35	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6105	NV	40	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6105	NV	0	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6105	NV	5	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6105	NV	10	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6105	NV	15	0.00	0.000000	20	PASS

11BE320MIMO	Ant4	6105	NV	20	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6105	NV	25	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6105	NV	30	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6105	NV	35	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6265	NV	40	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6265	NV	0	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6265	NV	5	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6265	NV	10	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6265	NV	15	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6265	NV	20	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6265	NV	25	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6265	NV	30	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6265	NV	35	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6265	NV	40	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6265	NV	0	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6265	NV	5	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6265	NV	10	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6265	NV	15	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6265	NV	20	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6265	NV	25	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6265	NV	30	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6265	NV	35	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6265	NV	40	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6265	NV	0	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6265	NV	5	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6265	NV	10	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6265	NV	15	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6265	NV	20	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6265	NV	25	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6265	NV	30	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6265	NV	35	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6265	NV	40	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6265	NV	0	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6265	NV	5	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6265	NV	10	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6265	NV	15	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6265	NV	20	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6265	NV	25	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6265	NV	30	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6265	NV	35	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6265	NV	40	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6585	NV	0	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6585	NV	5	0.00	0.000000	20	PASS

11BE320MIMO	Ant1	6585	NV	10	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6585	NV	15	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6585	NV	20	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6585	NV	25	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6585	NV	30	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6585	NV	35	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6585	NV	40	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6585	NV	0	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6585	NV	5	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6585	NV	10	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6585	NV	15	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6585	NV	20	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6585	NV	25	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6585	NV	30	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6585	NV	35	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6585	NV	40	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6585	NV	0	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6585	NV	5	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6585	NV	10	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6585	NV	15	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6585	NV	20	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6585	NV	25	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6585	NV	30	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6585	NV	35	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6585	NV	40	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6585	NV	0	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6585	NV	5	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6585	NV	10	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6585	NV	15	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6585	NV	20	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6585	NV	25	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6585	NV	30	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6585	NV	35	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6585	NV	40	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6745	NV	0	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6745	NV	5	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6745	NV	10	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6745	NV	15	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6745	NV	20	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6745	NV	25	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6745	NV	30	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6745	NV	35	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6745	NV	40	0.00	0.000000	20	PASS

11BE320MIMO	Ant2	6745	NV	0	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6745	NV	5	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6745	NV	10	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6745	NV	15	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6745	NV	20	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6745	NV	25	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6745	NV	30	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6745	NV	35	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6745	NV	40	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6745	NV	0	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6745	NV	5	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6745	NV	10	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6745	NV	15	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6745	NV	20	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6745	NV	25	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6745	NV	30	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6745	NV	35	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6745	NV	40	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6745	NV	0	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6745	NV	5	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6745	NV	10	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6745	NV	15	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6745	NV	20	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6745	NV	25	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6745	NV	30	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6745	NV	35	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6745	NV	40	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6905	NV	0	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6905	NV	5	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6905	NV	10	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6905	NV	15	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6905	NV	20	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6905	NV	25	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6905	NV	30	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6905	NV	35	0.00	0.000000	20	PASS
11BE320MIMO	Ant1	6905	NV	40	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6905	NV	0	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6905	NV	5	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6905	NV	10	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6905	NV	15	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6905	NV	20	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6905	NV	25	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6905	NV	30	0.00	0.000000	20	PASS

11BE320MIMO	Ant2	6905	NV	35	0.00	0.000000	20	PASS
11BE320MIMO	Ant2	6905	NV	40	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6905	NV	0	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6905	NV	5	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6905	NV	10	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6905	NV	15	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6905	NV	20	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6905	NV	25	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6905	NV	30	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6905	NV	35	0.00	0.000000	20	PASS
11BE320MIMO	Ant3	6905	NV	40	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6905	NV	0	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6905	NV	5	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6905	NV	10	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6905	NV	15	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6905	NV	20	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6905	NV	25	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6905	NV	30	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6905	NV	35	0.00	0.000000	20	PASS
11BE320MIMO	Ant4	6905	NV	40	0.00	0.000000	20	PASS

3.6 Contention Based Protocol Measurement

3.6.1 Test Limit

Unlicensed indoor low power device must detect co-channel radio frequency power that is at least -62dBm (The threshold is referenced to a 0dBi antenna gain.) or low.

Indoor low power device must detect an AWGN signal with 90% (or better) level of certainty.

3.6.2 Test Procedure

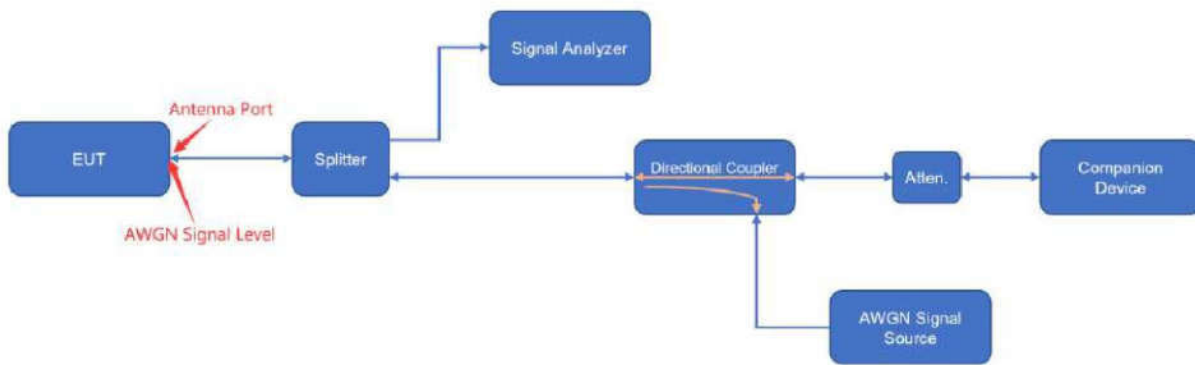
Test Method	
●Conducted Measurement	○Radiated Measurement
Test Channels	
●Lowest, Middle and Highest Channel	○ Lowest and Highest Channel
Environmental conditions	
●Normal	○Normal and Extreme
Note:●:Test ○:No Test	

Test was performed in accordance with method of KDB 987594 D02v01- Section I

3.6.3 Test Setting

1. Configure the EUT to transmit with a constant duty cycle.
2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
3. Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT.
Connect the output port of the EUT to the signal analyzer 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
4. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
5. Using an AWGN signal source, generate a 10 MHz-wide AWGN signal. Use Table 1 of KDB 987594 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
6. Set the AWGN signal power to an extremely low level. Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in below figure.
7. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
8. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
9. Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
10. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.

3.6.4 Test Setup



3.6.5 Test Result

Test Channel	Bandwidth (MHz)	Freq. (MHz)	Interference Freq.(MHz)	Incumbent Signal Level (Refer to 0dBi Antenna) (dBm)	Antenna Gain (dBi)	AWGN Signal Level (at Antenna Port) (dBm)	Detected Number	Detection Probability (%)	Limit (%)	Test Result
Operation Band: U-NII 5										
01	20	5955	5955	-71.40	1.12	-70.28	9	90	90	Pass
07	320	6105	5950	-72.25	1.12	-71.13	10	100	90	Pass
07	320	6105	6105	-72.32	1.12	-71.20	9	90	90	Pass
07	320	6105	6260	-72.93	1.12	-71.81	9	90	90	Pass
Operation Band: U-NII 6										
101	20	6455	6455	-67.76	1.12	-66.64	9	90	90	Pass
103	80	6465	6430	-68.52	1.12	-67.40	9	90	90	Pass
103	80	6465	6465	-67.33	1.12	-66.21	9	90	90	Pass
103	80	6465	6500	-66.73	1.12	-65.61	9	90	90	Pass
Operation Band: U-NII 7										
149	20	6695	6695	-72.91	1.12	-71.79	10	100	90	Pass
151	160	6665	6590	-72.18	1.12	-71.06	9	90	90	Pass
151	160	6665	6665	-71.67	1.12	-70.55	10	100	90	Pass
151	160	6665	6740	-74.67	1.12	-73.55	10	100	90	Pass
Operation Band: U-NII 8										
213	20	7015	7015	-72.20	1.12	-71.08	9	90	90	Pass
199	320	6905	6910	-67.84	1.12	-66.72	9	90	90	Pass
199	320	6905	6905	-68.76	1.12	-67.64	9	90	90	Pass
199	320	6905	6980	-71.76	1.12	-70.64	9	90	90	Pass

Note 1: Incumbent Signal Level = AWGN Signal Level (at Antenna port) – Antenna Gain, it's equivalent to incumbent signal level with reference to a 0dBi antenna gain, and this power level is less than or equal to the detection threshold (-62 dBm).

Note 2: AWGN Signal Level at antenna port is the actual injected level at antenna port

Note 3: Unequal antenna gains, with equal transmit powers. For antenna gains given by $G_1, G_2, \dots, G_N$ dBi

If transmit signals are completely uncorrelated, then Directional gain = $10 \log[(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10})/N_{ANT}]$ dBi

Directional gain = 1.12dBi

Test Channel	Bandwidth (MHz)	Freq. (MHz)	Interference Freq. (MHz)	AWGN Signal Level (at Antenna Port) (dBm)	EUT Status
Operation Band: U-NII 5					
01	20	5955	5955	-70.28	Stop transmission
				-72.45	Stop but with Beacon signal
07	320	6105	5950	-71.13	Stop transmission
				-73.33	Stop but with Beacon signal
07	320	6105	6105	-71.20	Stop transmission
				-73.33	Stop but with Beacon signal
07	320	6105	6260	-71.81	Stop transmission
				-73.13	Stop but with Beacon signal
Operation Band: U-NII 6					
101	20	6455	6455	-66.64	Stop transmission
				-67.74	Stop but with Beacon signal
103	80	6465	6430	-67.40	Stop transmission
				-70.22	Stop but with Beacon signal
103	80	6465	6465	-66.21	Stop transmission
				-67.62	Stop but with Beacon signal
103	80	6465	6500	-65.61	Stop transmission
				-68.29	Stop but with Beacon signal
Operation Band: U-NII 7					
149	20	6695	6695	-70.55	Stop transmission
				-72.36	Stop but with Beacon signal
151	160	6665	6590	-71.06	Stop transmission
				-72.06	Stop but with Beacon signal
151	160	6665	6665	-71.79	Stop transmission
				-72.70	Stop but with Beacon signal
151	160	6665	6740	-73.55	Stop transmission
				-75.39	Stop but with Beacon signal

Operation Band: U-NII 8					
213	20	7015	7015	-71.08	Stop transmission
				-73.61	Stop but with Beacon signal
199	320	6905	6910	-67.64	Stop transmission
				-71.34	Stop but with Beacon signal
199	320	6905	6905	-66.72	Stop transmission
				-68.50	Stop but with Beacon signal
199	320	6905	6980	-70.64	Stop transmission
				-73.22	Stop but with Beacon signal



AWGN Signal Level (at Antenna Port) Calibration Plots (NII-6 Band)

802.11be-HE20 / CH101



802.11be-HE80 / CH103 (Low Edge)



802.11be-HE80 / CH103 (Middle)

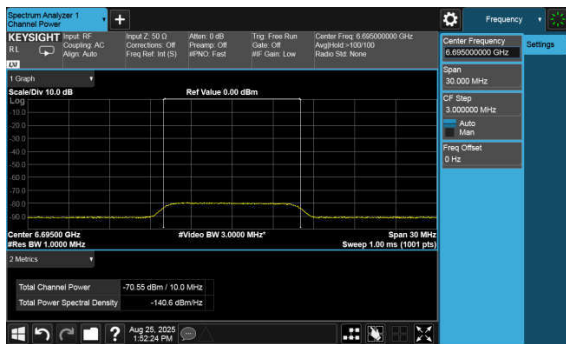


802.11be-HE80 / CH103 (High Edge)



AWGN Signal Level (at Antenna Port) Calibration Plots (NII-7 Band)

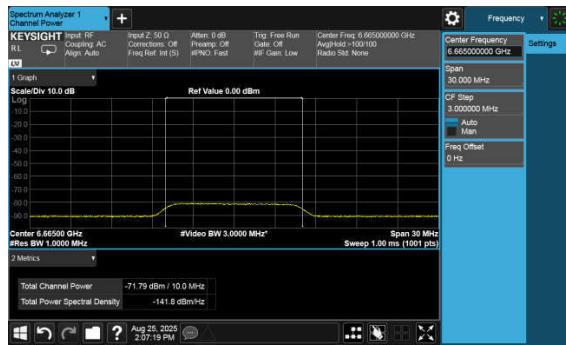
802.11be-HE20 / CH149



802.11be-HE160 / CH143 (Low Edge)



802.11be-HE160 / CH143 (Middle)

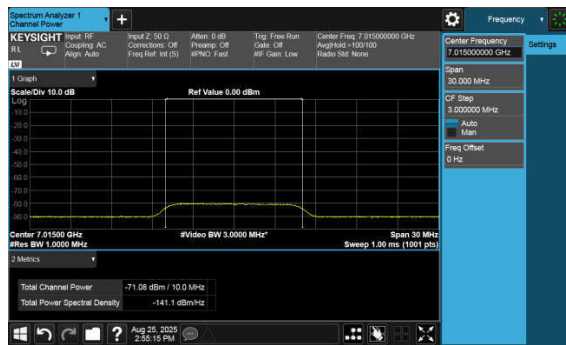


802.11be-HE160 / CH143 (High Edge)



AWGN Signal Level (at Antenna Port) Calibration Plots (NII-8 Band)

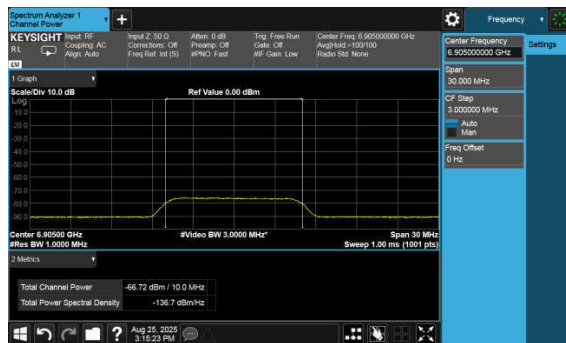
802.11be-HE20 / CH213



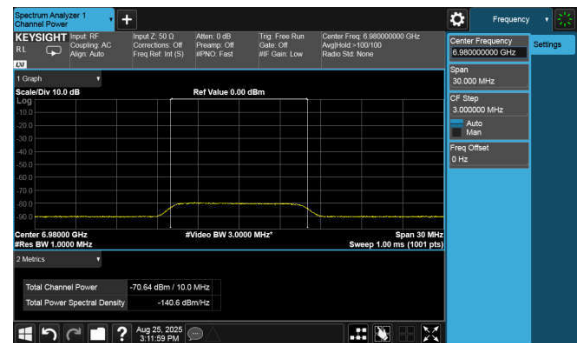
802.11be-HE320 / CH191 (Low Edge)



802.11be-HE320 / CH191 (Middle)



802.11be-HE160 / CH191 (High Edge)



EUT TX stop

802.11be-HE20 / CH01



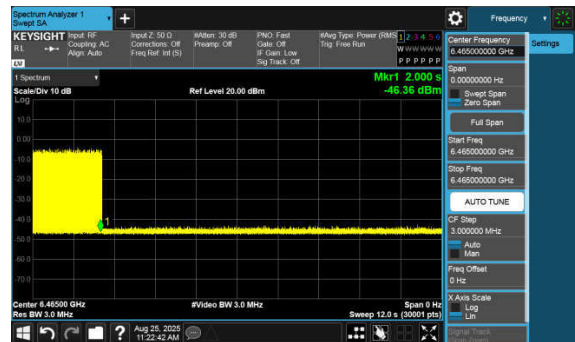
802.11be-HE320 / CH31



802.11be-HE20 / CH101



802.11be-HE80 / CH103



802.11be-HE20 / CH149



802.11be-HE160 / CH143



802.11be-HE20 / CH213



802.11be-HE320 / CH191

