

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120919\
 Data File : VL034463.D
 Acq On : 9 Dec 2019 12:35
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

apatel
 12/11/2019 2:11:55 PM

Quant Time: Dec 10 03:52:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 19 14:15:35 2019
 QLast Update : Tue Nov 19 14:15:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	915718	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	1861638	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	1936948m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1606652	9.86	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.60%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.02	85	1169166	7.058	ppbv 97
3) Chlorodifluoromethane	2.96	51	1030685	9.021	ppbv 99
4) Chloromethane	3.11	50	546707	8.112	ppbv 98
5) Vinyl Chloride	3.23	62	536182	8.492	ppbv 89
6) Bromomethane	3.45	94	303448	9.551	ppbv 91
7) Chloroethane	3.53	64	203133	8.864	ppbv 99
8) Dichlorotetrafluoroethane	3.16	85	1266526	8.513	ppbv 100
9) Propene	2.98	41	413093	8.144	ppbv 100
10) Heptane	8.15	43	1104863	8.440	ppbv 100
11) Trichlorofluoromethane	3.93	101	1450594	8.799	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.47	101	959987	8.768	ppbv 100
13) Ethanol	3.58	45	115780	8.194	ppbv 98
14) Bromoethene	3.72	108	387844	8.712	ppbv 99
15) Acetone	3.83	43	1034040	7.886	ppbv 99
16) 1,3-Butadiene	3.30	39	492585	8.624	ppbv 98
17) tert-Butyl alcohol	4.28	59	1075257	9.756	ppbv 100
18) 1,1-Dichloroethene	4.28	96	424417	8.862	ppbv 98
19) Isopropyl Alcohol	3.95	45	846466	10.071	ppbv 100
20) Methylene Chloride	4.33	84	369127	7.939	ppbv 90
21) Allyl Chloride	4.40	41	710261	9.039	ppbv 99
22) trans-1,2-Dichloroethene	4.88	96	426260	8.829	ppbv 96
23) Vinyl Acetate	5.07	43	1578153	9.213	ppbv 99
24) 1,1-Dichloroethane	5.01	63	1128988	8.580	ppbv 100
25) Ethyl Acetate	5.68	43	1919230	8.202	ppbv 100
26) Hexane	5.69	57	834957	8.304	ppbv 99
27) Carbon Disulfide	4.54	76	1068229	9.754	ppbv 99
28) Methyl tert-Butyl Ether	5.03	73	1477946	8.865	ppbv 100
29) Chloroform	5.76	83	1385498	8.509	ppbv 97
30) Cyclohexane	7.15	84	653940	8.603	ppbv 97
31) cis-1,2-Dichloroethene	5.56	61	895179	8.616	ppbv 96
32) 1,1,1-Trichloroethane	6.53	97	1416765	9.281	ppbv 99
34) 2-Butanone	5.24	43	1275539	8.324	ppbv 99
35) Carbon Tetrachloride	7.04	117	1472861	9.202	ppbv 99
36) Benzene	6.92	78	1588260	8.535	ppbv 94
37) 1,2-Dichloroethane	6.32	62	1196709	8.656	ppbv 99
38) Trichloroethene	7.87	130	617487	8.086	ppbv 98
39) 1,2-Dichloropropane	7.64	63	656255	9.153	ppbv 95
40) 1,4-Dioxane	7.86	88	254361	8.122	ppbv # 98
41) Tetrahydrofuran	6.06	42	718594	8.361	ppbv 100
42) Bromodichloromethane	7.82	83	1539372	8.903	ppbv 98
43) Methyl Methacrylate	8.04	69	676795	8.768	ppbv 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.90	57	2881544	8.473	ppbv	99
45) t-1,3-Dichloropropene	9.32	75	891021	9.001	ppbv	96
46) cis-1,3-Dichloropropene	8.74	75	1009027	9.075	ppbv	98
47) 1,1,2-Trichloroethane	9.51	97	678109	8.503	ppbv	94
48) Dibromochloromethane	10.35	129	1262483	9.220	ppbv	100
49) Bromoform	13.10	173	1124929	9.203	ppbv	99
50) 4-Methyl-2-Pentanone	8.77	43	1921285	8.666	ppbv	100
51) 2-Hexanone	10.17	43	1608948	8.664	ppbv	98
52) Tetrachloroethene	11.27	164	597258	7.418	ppbv	96
53) Toluene	9.84	91	1815013	8.586	ppbv	99
54) 1,2-Dibromoethane	10.66	107	1082624	8.854	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.18	131	851876	8.991	ppbv #	61
57) Chlorobenzene	12.20	112	1399911	7.995	ppbv	96
58) Ethyl Benzene	12.76	91	2550830	8.486	ppbv	99
59) m/p-Xylene	13.05	91	4237994m	16.311	ppbv	
60) o-Xylene	13.74	91	2148975	8.365	ppbv	99
61) Styrene	13.58	104	1509284	8.147	ppbv	99
62) Isopropylbenzene	14.72	105	2840617	8.360	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.73	83	1547882	8.016	ppbv	100
64) n-propylbenzene	15.62	120	726077	8.229	ppbv	91
65) tert-Butylbenzene	16.80	119	2568859	8.417	ppbv	99
66) Benzyl Chloride	17.05	91	1225587	10.438	ppbv	100
67) sec-Butylbenzene	17.36	105	3595801	8.423	ppbv	99
69) p-Isopropyltoluene	17.72	119	3001341	8.471	ppbv	99
70) n-Butylbenzene	18.62	91	3211455	8.424	ppbv	99
71) 2-Chlorotoluene	15.51	91	2235119	8.250	ppbv	99
72) 4-Ethyltoluene	15.90	105	2487181	8.379	ppbv	99
73) 1,3,5-Trimethylbenzene	16.06	105	2373465	8.169	ppbv	96
74) 1,2,4-Trimethylbenzene	16.82	105	2488040	8.061	ppbv	94
75) 1,3-Dichlorobenzene	17.06	146	1388130	7.824	ppbv	100
76) 1,4-Dichlorobenzene	17.20	146	1398551	8.118	ppbv	98
77) 1,2-Dichlorobenzene	17.88	146	1374778	8.023	ppbv	99
78) Hexachloro-1,3-Butadiene	23.45	225	1170172	7.948	ppbv	99
79) Naphthalene	22.28	128	2143235	8.010	ppbv	99
80) Naphthalene, 2-methyl-	25.03	142	598139	4.951	ppbv	96
81) 1,2,4-Trichlorobenzene	22.01	180	1206857	7.342	ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

