

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL020419\
 Data File : VL033167.D
 Acq On : 5 Feb 2019 4:33
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 2/5/2019 10:28:36 AM

Quant Time: Feb 05 05:42:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL020419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Feb 05 2019
 QLast Update : Mon Feb 04 14:41:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1191332	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3014609	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3088288m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2343541	10.18	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1781575	10.156	ppbv	98
3) Chlorodifluoromethane	3.01	51	1128652	8.506	ppbv	99
4) Chloromethane	3.17	50	638782	8.555	ppbv	99
5) Vinyl Chloride	3.29	62	600966	8.155	ppbv	99
6) Bromomethane	3.52	94	363255	8.748	ppbv	98
7) Chloroethane	3.60	64	219419	8.757	ppbv #	89
8) Dichlorotetrafluoroethane	3.22	85	1353270	8.416	ppbv	98
9) Propene	3.04	41	564844	8.473	ppbv	100
10) Heptane	8.25	43	1770538	8.525	ppbv	99
11) Trichlorofluoromethane	4.01	101	1466968	8.654	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	996192	9.052	ppbv	96
13) Ethanol	3.65	45	116584	4.436	ppbv	95
14) Bromoethene	3.79	108	459651	9.061	ppbv	99
15) Acetone	3.90	43	1057680	7.457	ppbv	99
16) 1,3-Butadiene	3.36	39	539292	9.366	ppbv	96
17) tert-Butyl alcohol	4.36	59	226673	7.236	ppbv	100
18) 1,1-Dichloroethene	4.35	96	448033	8.847	ppbv	97
19) Isopropyl Alcohol	4.02	45	757691	7.521	ppbv #	46
20) Methylene Chloride	4.41	84	384126	7.861	ppbv	99
21) Allyl Chloride	4.48	41	772168	9.041	ppbv	98
22) trans-1,2-Dichloroethene	4.96	96	458071	9.159	ppbv	97
23) Vinyl Acetate	5.16	43	1974428	8.557	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1348268	8.564	ppbv	99
25) Ethyl Acetate	5.77	43	2645433	9.025	ppbv	100
26) Hexane	5.78	57	1246288	9.088	ppbv	97
27) Carbon Disulfide	4.62	76	1144444	9.694	ppbv	97
28) Methyl tert-Butyl Ether	5.11	73	1638257	8.211	ppbv	99
29) Chloroform	5.85	83	1892665	9.122	ppbv	98
30) Cyclohexane	7.25	84	1094829	8.316	ppbv	98
31) cis-1,2-Dichloroethene	5.64	61	1110248	8.495	ppbv	100
32) 1,1,1-Trichloroethane	6.62	97	1835530	8.975	ppbv #	83
34) 2-Butanone	5.33	43	1557188	8.213	ppbv	100
35) Carbon Tetrachloride	7.14	117	1797722	9.312	ppbv	100
36) Benzene	7.01	78	2656451	8.717	ppbv	99
37) 1,2-Dichloroethane	6.42	62	1457694	9.365	ppbv	99
38) Trichloroethene	7.96	130	951939	8.601	ppbv	95
39) 1,2-Dichloropropane	7.74	63	1060735	9.075	ppbv	99
40) 1,4-Dioxane	7.96	88	353649	7.756	ppbv #	1
41) Tetrahydrofuran	6.15	42	1146378	9.732	ppbv	99
42) Bromodichloromethane	7.92	83	2115494	9.288	ppbv	97
43) Methyl Methacrylate	8.14	69	1124119	9.273	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	4516001	8.831	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1442080	9.639	ppbv	97
46) cis-1,3-Dichloropropene	8.84	75	1664903	9.252	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	1071927	8.542	ppbv	96
48) Dibromochloromethane	10.45	129	1701052	9.108	ppbv	100
49) Bromoform	13.21	173	1323689	8.587	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2769620	8.070	ppbv	100
51) 2-Hexanone	10.27	43	2194229	7.623	ppbv	100
52) Tetrachloroethene	11.38	164	882733	8.334	ppbv	98
53) Toluene	9.95	91	3143919	8.686	ppbv	99
54) 1,2-Dibromoethane	10.77	107	1652930	8.699	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	1154188	8.644	ppbv #	54
57) Chlorobenzene	12.31	112	2165302	8.410	ppbv	98
58) Ethyl Benzene	12.87	91	4145093	8.531	ppbv	99
59) m/p-Xylene	13.16	91	6675628m	16.778	ppbv	
60) o-Xylene	13.86	91	3122813	8.505	ppbv	96
61) Styrene	13.69	104	2522326	8.585	ppbv	98
62) Isopropylbenzene	14.83	105	4431764	8.456	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.84	83	2046637	7.770	ppbv	100
64) n-propylbenzene	15.73	120	1123047	8.211	ppbv	93
65) tert-Butylbenzene	16.91	119	3638732	7.740	ppbv	97
66) Benzyl Chloride	17.16	91	1701293	7.968	ppbv	97
67) sec-Butylbenzene	17.46	105	5232494	7.786	ppbv	100
69) p-Isopropyltoluene	17.82	119	4188318	7.542	ppbv	99
70) n-Butylbenzene	18.72	91	4470673	7.399	ppbv	99
71) 2-Chlorotoluene	15.62	91	3396307	8.174	ppbv	97
72) 4-Ethyltoluene	16.01	105	3585710	8.171	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3380483	7.990	ppbv	93
74) 1,2,4-Trimethylbenzene	16.93	105	3295115	7.636	ppbv	98
75) 1,3-Dichlorobenzene	17.17	146	1818211	7.632	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1840970	7.693	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	1743972	7.359	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	1339756	11.365	ppbv	100
79) Naphthalene	22.42	128	3770114	7.461	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	1538831	5.973	ppbv	99
81) 1,2,4-Trichlorobenzene	22.15	180	1663912	7.265	ppbv	99

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

