

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021820\
 Data File : VL034619.D
 Acq On : 18 Feb 2020 9:57
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 2/21/2020 3:25:19 PM

Quant Time: Feb 19 06:11:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30 2020
 QLast Update : Thu Jan 30 17:16:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1001326	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2052325	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2177928	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1844919	10.02	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	2101813	9.530	ppbv	98
3) Chlorodifluoromethane	2.95	51	1168418	9.657	ppbv	99
4) Chloromethane	3.11	50	714321	9.649	ppbv	99
5) Vinyl Chloride	3.22	62	690296	9.762	ppbv	98
6) Bromomethane	3.44	94	364324	9.906	ppbv	96
7) Chloroethane	3.53	64	256444	9.752	ppbv	96
8) Dichlorotetrafluoroethane	3.15	85	1656945	9.612	ppbv	99
9) Propene	2.97	41	462872	9.826	ppbv	99
10) Heptane	8.13	43	1241799	10.474	ppbv	100
11) Trichlorofluoromethane	3.92	101	1978884	9.877	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1311408	10.032	ppbv	100
13) Ethanol	3.58	45	99849	7.913	ppbv	97
14) Bromoethene	3.71	108	529998	10.336	ppbv	99
15) Acetone	3.82	43	1380959	9.384	ppbv	99
16) 1,3-Butadiene	3.29	39	608839	10.418	ppbv	99
17) tert-Butyl alcohol	4.27	59	1111258	10.268	ppbv	99
18) 1,1-Dichloroethene	4.27	96	582492	10.556	ppbv	97
19) Isopropyl Alcohol	3.95	45	850110	9.899	ppbv #	99
20) Methylene Chloride	4.32	84	512784	9.151	ppbv	94
21) Allyl Chloride	4.39	41	958732	10.490	ppbv	99
22) trans-1,2-Dichloroethene	4.87	96	605274	10.473	ppbv	94
23) Vinyl Acetate	5.06	43	1736346	10.342	ppbv	99
24) 1,1-Dichloroethane	5.00	63	1385237	9.882	ppbv	99
25) Ethyl Acetate	5.67	43	2316790	9.724	ppbv	100
26) Hexane	5.68	57	976430	9.784	ppbv	99
27) Carbon Disulfide	4.53	76	1510138	11.215	ppbv	100
28) Methyl tert-Butyl Ether	5.02	73	1765431	10.373	ppbv	99
29) Chloroform	5.75	83	1677807	9.508	ppbv	97
30) Cyclohexane	7.14	84	777575	10.515	ppbv	100
31) cis-1,2-Dichloroethene	5.54	61	1075783	10.376	ppbv	98
32) 1,1,1-Trichloroethane	6.52	97	1779003	9.389	ppbv	100
34) 2-Butanone	5.24	43	1465406	9.834	ppbv	100
35) Carbon Tetrachloride	7.03	117	1953041	9.954	ppbv	95
36) Benzene	6.90	78	1864108	10.214	ppbv	98
37) 1,2-Dichloroethane	6.31	62	1502861	9.870	ppbv	100
38) Trichloroethene	7.85	130	809450	10.521	ppbv	98
39) 1,2-Dichloropropane	7.62	63	752216	9.942	ppbv	97
40) 1,4-Dioxane	7.84	88	299833	10.309	ppbv	95
41) Tetrahydrofuran	6.04	42	796581	10.247	ppbv	98
42) Bromodichloromethane	7.81	83	1901634	10.147	ppbv	97
43) Methyl Methacrylate	8.03	69	797785	10.868	ppbv	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.88	57	3331651	10.061	ppbv	99
45) t-1,3-Dichloropropene	9.30	75	1149685	11.961	ppbv	98
46) cis-1,3-Dichloropropene	8.72	75	1257314	11.508	ppbv	98
47) 1,1,2-Trichloroethane	9.50	97	817117	9.971	ppbv	96
48) Dibromochloromethane	10.33	129	1620474	10.791	ppbv	100
49) Bromoform	13.07	173	1451372	11.009	ppbv	100
50) 4-Methyl-2-Pentanone	8.76	43	2164111	10.184	ppbv	100
51) 2-Hexanone	10.15	43	1827207	10.923	ppbv #	99
52) Tetrachloroethene	11.25	164	743995	10.147	ppbv	97
53) Toluene	9.83	91	2204224	10.994	ppbv	100
54) 1,2-Dibromoethane	10.64	107	1264774	10.299	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.16	131	1062107	9.878	ppbv	100
57) Chlorobenzene	12.18	112	1777535	9.918	ppbv	96
58) Ethyl Benzene	12.74	91	3049338	10.463	ppbv	97
59) m/p-Xylene	13.03	91	5230524m	20.303	ppbv	
60) o-Xylene	13.73	91	2623062	10.138	ppbv	99
61) Styrene	13.56	104	1905829	11.047	ppbv	99
62) Isopropylbenzene	14.70	105	3365299	10.037	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.72	83	1799764	8.994	ppbv	99
64) n-propylbenzene	15.60	120	871237	10.100	ppbv	94
65) tert-Butylbenzene	16.78	119	3021429	9.947	ppbv	99
66) Benzyl Chloride	17.03	91	1484272	11.653	ppbv	100
67) sec-Butylbenzene	17.33	105	4117146	9.863	ppbv	99
69) p-Isopropyltoluene	17.69	119	3437258	10.141	ppbv	100
70) n-Butylbenzene	18.59	91	3575734	9.938	ppbv	100
71) 2-Chlorotoluene	15.49	91	2619180	10.291	ppbv	99
72) 4-Ethyltoluene	15.88	105	2944071	10.359	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	2829955	10.190	ppbv	98
74) 1,2,4-Trimethylbenzene	16.80	105	2956566	9.617	ppbv	92
75) 1,3-Dichlorobenzene	17.04	146	1664433	9.403	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	1654257	9.482	ppbv	99
77) 1,2-Dichlorobenzene	17.86	146	1570353	9.235	ppbv	99
78) Hexachloro-1,3-Butadiene	23.42	225	1463787	9.001	ppbv	100
79) Naphthalene	22.26	128	2494659	10.307	ppbv	99
80) Naphthalene, 2-methyl-	25.01	142	1272931	13.671	ppbv	99
81) 1,2,4-Trichlorobenzene	21.99	180	1519991	10.187	ppbv	99

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

