

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012221\
 Data File : VL036270.D
 Acq On : 22 Jan 2021 17:14
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 1/26/2021 12:58:31 PM

Quant Time: Jan 23 04:57:30 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 14 16:13:38 2021
 QLast Update : Thu Jan 14 16:13:38 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1498022	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.19	114	3393246	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.11	117	3237432m	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2750244	10.26	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	2162637	10.770	ppbv	98
3) Chlorodifluoromethane	3.00	51	2009444	10.922	ppbv	97
4) Chloromethane	3.15	50	972487	10.695	ppbv	94
5) Vinyl Chloride	3.27	62	931597	10.827	ppbv	100
6) Bromomethane	3.48	94	516340	10.734	ppbv	93
7) Chloroethane	3.56	64	339145	11.445	ppbv	93
8) Dichlorotetrafluoroethane	3.20	85	2202434	11.321	ppbv	97
9) Propene	3.01	41	857294	9.785	ppbv	98
10) Heptane	8.14	43	2231536	10.261	ppbv	98
11) Trichlorofluoromethane	3.96	101	2290672	11.221	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.49	101	1396605	11.284	ppbv	98
13) Ethanol	3.61	45	147672m	10.734	ppbv	
14) Bromoethene	3.75	108	608458	10.796	ppbv	98
15) Acetone	3.86	43	1790285	9.758	ppbv	98
16) 1,3-Butadiene	3.34	39	951773	10.649	ppbv	99
17) tert-Butyl alcohol	4.30	59	1508991	9.967	ppbv	100
18) 1,1-Dichloroethene	4.30	96	615487	10.726	ppbv	92
19) Isopropyl Alcohol	3.98	45	988503	8.937	ppbv #	99
20) Methylene Chloride	4.36	84	540702	9.234	ppbv	92
21) Allyl Chloride	4.42	41	1105571	11.071	ppbv	98
22) trans-1,2-Dichloroethene	4.90	96	578506	10.912	ppbv	100
23) Vinyl Acetate	5.09	43	2371747	10.669	ppbv #	98
24) 1,1-Dichloroethane	5.02	63	1759432	10.926	ppbv	98
25) Ethyl Acetate	5.69	43	3785065	10.276	ppbv	99
26) Hexane	5.70	57	1537869	10.028	ppbv	99
27) Carbon Disulfide	4.56	76	1525486	12.440	ppbv	100
28) Methyl tert-Butyl Ether	5.05	73	2080507	10.032	ppbv	97
29) Chloroform	5.77	83	2464668	11.225	ppbv	95
30) Cyclohexane	7.15	84	1262334	10.772	ppbv	98
31) cis-1,2-Dichloroethene	5.56	61	1611704	10.996	ppbv	99
32) 1,1,1-Trichloroethane	6.53	97	2415974	11.376	ppbv	99
34) 2-Butanone	5.26	43	2387878	9.556	ppbv	99
35) Carbon Tetrachloride	7.04	117	2421901	11.297	ppbv	98
36) Benzene	6.91	78	3172665	10.204	ppbv	100
37) 1,2-Dichloroethane	6.32	62	2037865	10.892	ppbv	99
38) Trichloroethene	7.85	130	1032481	8.966	ppbv	96
39) 1,2-Dichloropropane	7.64	63	1312019m	10.393	ppbv	
40) 1,4-Dioxane	7.85	88	443731m	9.717	ppbv	
41) Tetrahydrofuran	6.06	42	1440564	9.975	ppbv	96
42) Bromodichloromethane	7.81	83	2631441	11.190	ppbv	96
43) Methyl Methacrylate	8.03	69	1424528	10.781	ppbv	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	5467640	9.574	ppbv	98
45) t-1,3-Dichloropropene	9.30	75	1490253	11.875	ppbv	98
46) cis-1,3-Dichloropropene	8.72	75	1825897	11.322	ppbv	97
47) 1,1,2-Trichloroethane	9.49	97	1220190	10.104	ppbv	97
48) Dibromochloromethane	10.33	129	1956028	11.071	ppbv	100
49) Bromoform	13.07	173	1515979	10.279	ppbv	100
50) 4-Methyl-2-Pentanone	8.76	43	3737371	10.031	ppbv	100
51) 2-Hexanone	10.16	43	3006777	10.229	ppbv #	99
52) Tetrachloroethene	11.24	164	990557	8.646	ppbv	98
53) Toluene	9.82	91	3435890	9.879	ppbv	99
54) 1,2-Dibromoethane	10.63	107	1803557	10.075	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.15	131	1463055	10.127	ppbv #	92
57) Chlorobenzene	12.17	112	2390630	9.412	ppbv	97
58) Ethyl Benzene	12.73	91	4644590	9.668	ppbv	98
59) m/p-Xylene	13.02	91	7794952m	18.883	ppbv	
60) o-Xylene	13.72	91	3607592	9.066	ppbv	98
61) Styrene	13.55	104	2481568	9.876	ppbv	99
62) Isopropylbenzene	14.69	105	5249157	8.873	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.70	83	2459056	8.300	ppbv	99
64) n-propylbenzene	15.59	120	1337744	9.203	ppbv	99
65) tert-Butylbenzene	16.77	119	4397461	8.772	ppbv	99
66) Benzyl Chloride	17.02	91	1392249	10.871	ppbv	99
67) sec-Butylbenzene	17.32	105	6347173	8.529	ppbv	100
69) p-Isopropyltoluene	17.68	119	5182022	8.781	ppbv	99
70) n-Butylbenzene	18.57	91	5733909	9.118	ppbv	100
71) 2-Chlorotoluene	15.48	91	4151721	8.928	ppbv	100
72) 4-Ethyltoluene	15.87	105	4089226	9.107	ppbv	99
73) 1,3,5-Trimethylbenzene	16.02	105	3836498	8.963	ppbv	99
74) 1,2,4-Trimethylbenzene	16.79	105	3878945	8.835	ppbv	95
75) 1,3-Dichlorobenzene	17.02	146	2058471	8.741	ppbv	100
76) 1,4-Dichlorobenzene	17.16	146	2023663	8.698	ppbv	99
77) 1,2-Dichlorobenzene	17.84	146	2069008	8.995	ppbv	99
78) Hexachloro-1,3-Butadiene	23.40	225	2006105m	10.905	ppbv	
79) Naphthalene	22.23	128	3989376	15.544	ppbv	97
80) Naphthalene, 2-methyl-	24.99	142	862933	15.758	ppbv	92
81) 1,2,4-Trichlorobenzene	21.96	180	2007136	13.395	ppbv	100

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

