

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL030121\
 Data File : VL036408.D
 Acq On : 1 Mar 2021 9:24
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 3/2/2021 3:29:58 PM

Quant Time: Mar 02 02:50:17 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 10 16:04:02 2021
 QLast Update : Wed Feb 10 16:04:02 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1652510	10.00	ppbv	0.05
33) 1,4-Difluorobenzene	7.21	114	3856673	10.00	ppbv	0.05
55) Chlorobenzene-d5	12.12	117	3640641m	10.00	ppbv	0.06

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	2854945	9.53	ppbv	0.06
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.06	85	2007663	8.140	ppbv	98
3) Chlorodifluoromethane	3.00	51	1883523	9.173	ppbv	99
4) Chloromethane	3.15	50	947009	9.547	ppbv	98
5) Vinyl Chloride	3.28	62	936848	10.142	ppbv	96
6) Bromomethane	3.49	94	551965	10.054	ppbv	93
7) Chloroethane	3.57	64	322421	9.831	ppbv	98
8) Dichlorotetrafluoroethane	3.20	85	2117665	9.441	ppbv	98
9) Propene	3.02	41	854200	11.158	ppbv	98
10) Heptane	8.15	43	2244044	9.946	ppbv	98
11) Trichlorofluoromethane	3.97	101	2268090	9.392	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.51	101	1471617	9.837	ppbv	99
13) Ethanol	3.63	45	161675m	11.244	ppbv	
14) Bromoethene	3.76	108	632285	10.099	ppbv	97
15) Acetone	3.87	43	1781286	8.818	ppbv	99
16) 1,3-Butadiene	3.34	39	914465	9.467	ppbv	100
17) tert-Butyl alcohol	4.32	59	1560217	9.950	ppbv	100
18) 1,1-Dichloroethene	4.31	96	638095	9.386	ppbv	96
19) Isopropyl Alcohol	3.99	45	1052490	9.405	ppbv	100
20) Methylene Chloride	4.37	84	538004	8.255	ppbv	93
21) Allyl Chloride	4.43	41	1055463	9.385	ppbv	99
22) trans-1,2-Dichloroethene	4.91	96	607384	9.835	ppbv	97
23) Vinyl Acetate	5.10	43	2432255	10.241	ppbv	99
24) 1,1-Dichloroethane	5.03	63	1761040	10.026	ppbv	98
25) Ethyl Acetate	5.70	43	3730351	9.566	ppbv	99
26) Hexane	5.71	57	1534430	9.577	ppbv	99
27) Carbon Disulfide	4.57	76	1625355	11.037	ppbv	98
28) Methyl tert-Butyl Ether	5.06	73	2167257	10.354	ppbv	99
29) Chloroform	5.78	83	2441590	9.459	ppbv	96
30) Cyclohexane	7.16	84	1271364	9.541	ppbv	98
31) cis-1,2-Dichloroethene	5.57	61	1563606	9.862	ppbv	96
32) 1,1,1-Trichloroethane	6.54	97	2382392	9.872	ppbv	98
34) 2-Butanone	5.27	43	2367260	9.238	ppbv	99
35) Carbon Tetrachloride	7.05	117	2413932	9.339	ppbv	98
36) Benzene	6.92	78	3196120	9.756	ppbv	97
37) 1,2-Dichloroethane	6.34	62	1873947	9.252	ppbv	99
38) Trichloroethene	7.86	130	1088045	9.271	ppbv	95
39) 1,2-Dichloropropane	7.64	63	1300480	9.772	ppbv	97
40) 1,4-Dioxane	7.86	88	442634	9.600	ppbv #	86
41) Tetrahydrofuran	6.08	42	1448153	10.127	ppbv	98
42) Bromodichloromethane	7.82	83	2597059	9.573	ppbv	99
43) Methyl Methacrylate	8.04	69	1391959	10.075	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.90	57	5419152	9.097	ppbv	99
45) t-1,3-Dichloropropene	9.31	75	1499632	11.252	ppbv	99
46) cis-1,3-Dichloropropene	8.73	75	1846281	10.905	ppbv	99
47) 1,1,2-Trichloroethane	9.51	97	1256652	9.227	ppbv	96
48) Dibromochloromethane	10.34	129	2086412	10.266	ppbv	99
49) Bromoform	13.08	173	1753860	10.675	ppbv	99
50) 4-Methyl-2-Pentanone	8.77	43	3706070	9.742	ppbv	100
51) 2-Hexanone	10.17	43	2988682	10.340	ppbv #	99
52) Tetrachloroethene	11.26	164	1047684	8.735	ppbv	96
53) Toluene	9.84	91	3532413	9.954	ppbv	99
54) 1,2-Dibromoethane	10.64	107	1901365	9.660	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.16	131	1559619	9.314	ppbv #	60
57) Chlorobenzene	12.18	112	2536681	9.018	ppbv	100
58) Ethyl Benzene	12.74	91	4751677	9.531	ppbv	99
59) m/p-Xylene	13.03	91	8063094m	18.414	ppbv	
60) o-Xylene	13.73	91	3828863	9.145	ppbv	99
61) Styrene	13.56	104	2689843	10.367	ppbv	98
62) Isopropylbenzene	14.71	105	5686291	9.061	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.72	83	2754128	8.337	ppbv	100
64) n-propylbenzene	15.60	120	1460025	9.453	ppbv	100
65) tert-Butylbenzene	16.78	119	4835678	9.006	ppbv	98
66) Benzyl Chloride	17.02	91	1793704	12.288	ppbv	99
67) sec-Butylbenzene	17.33	105	6858499	8.857	ppbv	99
69) p-Isopropyltoluene	17.69	119	5629962	9.408	ppbv	99
70) n-Butylbenzene	18.59	91	5960066	9.287	ppbv	100
71) 2-Chlorotoluene	15.49	91	4456319	9.263	ppbv	98
72) 4-Ethyltoluene	15.88	105	4391525	9.425	ppbv	98
73) 1,3,5-Trimethylbenzene	16.03	105	4153610	9.196	ppbv	99
74) 1,2,4-Trimethylbenzene	16.80	105	4198321	9.105	ppbv	94
75) 1,3-Dichlorobenzene	17.03	146	2290956	9.154	ppbv	100
76) 1,4-Dichlorobenzene	17.18	146	2264688	8.714	ppbv	97
77) 1,2-Dichlorobenzene	17.85	146	2250052	9.063	ppbv	99
78) Hexachloro-1,3-Butadiene	23.41	225	1571965	7.750	ppbv	99
79) Naphthalene	22.24	128	3027318	11.076	ppbv	96
80) Naphthalene,2-methyl-	25.00	142	738882	14.600	ppbv	95
81) 1,2,4-Trichlorobenzene	21.97	180	1599135	9.589	ppbv	99

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

