

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040821\
 Data File : VL036767.D
 Acq On : 9 Apr 2021 8:29
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 4/12/2021 11:48:05 AM

Quant Time: Apr 09 09:02:46 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 2
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1411319	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	3556255	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.08	117	3138205m	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2063903	8.25	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	82.50%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	1500275	6.518	ppbv	95
3) Chlorodifluoromethane	2.98	51	2216043	8.404	ppbv	100
4) Chloromethane	3.13	50	715388	7.681	ppbv	99
5) Vinyl Chloride	3.24	62	729335	7.616	ppbv	96
6) Bromomethane	3.46	94	411181	7.798	ppbv	97
7) Chloroethane	3.55	64	245984	7.475	ppbv	98
8) Dichlorotetrafluoroethane	3.18	85	1719137	7.825	ppbv	100
9) Propene	3.00	41	647861	7.707	ppbv	100
10) Heptane	8.11	43	1768580	8.259	ppbv	98
11) Trichlorofluoromethane	3.94	101	1803664	7.689	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1153845	7.693	ppbv	99
13) Ethanol	3.59	45	76201	7.612	ppbv	88
14) Bromoethene	3.73	108	497388	7.977	ppbv	97
15) Acetone	3.84	43	966350	6.957	ppbv	100
16) 1,3-Butadiene	3.31	39	757462	7.833	ppbv	100
17) tert-Butyl alcohol	4.28	59	1138527	9.415	ppbv	99
18) 1,1-Dichloroethene	4.28	96	504658	7.564	ppbv	96
19) Isopropyl Alcohol	3.95	45	645263	8.445	ppbv #	97
20) Methylene Chloride	4.33	84	430367	6.617	ppbv	97
21) Allyl Chloride	4.40	41	850337	7.679	ppbv	100
22) trans-1,2-Dichloroethene	4.87	96	488583	7.899	ppbv	95
23) Vinyl Acetate	5.06	43	1923496	8.095	ppbv	99
24) 1,1-Dichloroethane	5.00	63	1310604	7.567	ppbv #	98
25) Ethyl Acetate	5.66	43	2597817	7.866	ppbv	99
26) Hexane	5.67	57	1223955	7.987	ppbv	99
27) Carbon Disulfide	4.54	76	1305355	8.646	ppbv	99
28) Methyl tert-Butyl Ether	5.02	73	1373754	7.601	ppbv	100
29) Chloroform	5.74	83	2017926	8.233	ppbv	97
30) Cyclohexane	7.12	84	1053325	8.475	ppbv	98
31) cis-1,2-Dichloroethene	5.54	61	1233343	8.321	ppbv	98
32) 1,1,1-Trichloroethane	6.50	97	2031611	8.225	ppbv	99
34) 2-Butanone	5.23	43	1230149	7.086	ppbv	98
35) Carbon Tetrachloride	7.01	117	2131664	7.804	ppbv	97
36) Benzene	6.88	78	2637377	8.041	ppbv	99
37) 1,2-Dichloroethane	6.29	62	1504460	7.794	ppbv	99
38) Trichloroethene	7.82	130	967658	7.581	ppbv	97
39) 1,2-Dichloropropane	7.60	63	1019786	7.665	ppbv	97
40) 1,4-Dioxane	7.82	88	265456m	8.573	ppbv	
41) Tetrahydrofuran	6.04	42	542430	6.777	ppbv	94
42) Bromodichloromethane	7.78	83	2190962	8.344	ppbv	98
43) Methyl Methacrylate	8.01	69	998983	9.071	ppbv	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	4461371	7.729	ppbv	99
45) t-1,3-Dichloropropene	9.27	75	1001971	7.967	ppbv	100
46) cis-1,3-Dichloropropene	8.69	75	1264745	7.868	ppbv	98
47) 1,1,2-Trichloroethane	9.46	97	1070755	7.946	ppbv	97
48) Dibromochloromethane	10.29	129	1803270	8.778	ppbv	98
49) Bromoform	13.03	173	1511695	9.133	ppbv	99
50) 4-Methyl-2-Pentanone	8.73	43	1899091	7.561	ppbv	99
51) 2-Hexanone	10.13	43	981171	7.741	ppbv #	99
52) Tetrachloroethene	11.21	164	899109	7.445	ppbv	99
53) Toluene	9.79	91	2982155	8.538	ppbv	100
54) 1,2-Dibromoethane	10.60	107	1548469	8.137	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.12	131	1242942	8.757	ppbv	94
57) Chlorobenzene	12.14	112	2227026	8.340	ppbv	99
58) Ethyl Benzene	12.70	91	4017291	8.799	ppbv	99
59) m/p-Xylene	12.98	91	6840321m	17.177	ppbv	
60) o-Xylene	13.68	91	3216154	8.353	ppbv	100
61) Styrene	13.52	104	1753306	9.051	ppbv	99
62) Isopropylbenzene	14.66	105	4482972	8.646	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.67	83	2393088	8.147	ppbv	100
64) n-propylbenzene	15.55	120	1160235	9.152	ppbv	97
65) tert-Butylbenzene	16.73	119	3884768	8.640	ppbv	100
66) Benzyl Chloride	16.98	91	315330	6.345	ppbv #	98
67) sec-Butylbenzene	17.29	105	5500810	8.667	ppbv	100
69) p-Isopropyltoluene	17.64	119	4476386	9.032	ppbv	100
70) n-Butylbenzene	18.54	91	4657345	9.063	ppbv	99
71) 2-Chlorotoluene	15.45	91	3448394	8.875	ppbv	99
72) 4-Ethyltoluene	15.83	105	3792144	8.988	ppbv	99
73) 1,3,5-Trimethylbenzene	15.99	105	3447390	8.754	ppbv	100
74) 1,2,4-Trimethylbenzene	16.75	105	3562923	8.455	ppbv	99
75) 1,3-Dichlorobenzene	16.99	146	2092851	8.823	ppbv	99
76) 1,4-Dichlorobenzene	17.13	146	2031264	8.625	ppbv	99
77) 1,2-Dichlorobenzene	17.81	146	2066084	9.266	ppbv	98
78) Hexachloro-1,3-Butadiene	23.37	225	1575447	7.890	ppbv	99
79) Naphthalene	22.19	128	2482476	10.095	ppbv	100
80) Naphthalene, 2-methyl-	24.97	142	512510	10.569	ppbv	96
81) 1,2,4-Trichlorobenzene	21.92	180	1565100m	10.308	ppbv	

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

