

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041321\
 Data File : VL036796.D
 Acq On : 13 Apr 2021 9:27
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Quant Time: Apr 14 04:57:33 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Reviewed By :Semsettin Yesilyurt 04/14/2021
 Supervised By :Mahesh Dadoda 04/14/2021

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1429901	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3706120	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3099253	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1997290	8.09	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	80.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.04	85	1958670	8.398	ppbv 97
3) Chlorodifluoromethane	2.98	51	2542298	9.516	ppbv 100
4) Chloromethane	3.13	50	896859	9.504	ppbv 97
5) Vinyl Chloride	3.25	62	914594	9.426	ppbv 97
6) Bromomethane	3.47	94	505285	9.459	ppbv 98
7) Chloroethane	3.55	64	323148	9.692	ppbv 98
8) Dichlorotetrafluoroethane	3.18	85	2115394	9.503	ppbv 98
9) Propene	3.00	41	837957	9.839	ppbv 98
10) Heptane	8.12	43	2158511	9.948	ppbv 98
11) Trichlorofluoromethane	3.94	101	2187489	9.204	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1463255	9.629	ppbv 100
13) Ethanol	3.60	45	110719m	10.917	ppbv
14) Bromoethene	3.74	108	631966	10.004	ppbv 99
15) Acetone	3.84	43	1258902	8.945	ppbv 99
16) 1,3-Butadiene	3.32	39	914502	9.333	ppbv 95
17) tert-Butyl alcohol	4.29	59	1503216	12.270	ppbv 99
18) 1,1-Dichloroethene	4.28	96	657450	9.727	ppbv 95
19) Isopropyl Alcohol	3.96	45	917581	11.852	ppbv # 97
20) Methylene Chloride	4.34	84	563895	8.558	ppbv 97
21) Allyl Chloride	4.40	41	1106815	9.866	ppbv 99
22) trans-1,2-Dichloroethene	4.88	96	610049	9.735	ppbv 90
23) Vinyl Acetate	5.07	43	2544333	10.569	ppbv 98
24) 1,1-Dichloroethane	5.01	63	1727335	9.844	ppbv 99
25) Ethyl Acetate	5.67	43	3304756	9.877	ppbv 99
26) Hexane	5.68	57	1561831	10.059	ppbv 99
27) Carbon Disulfide	4.55	76	1606919	10.506	ppbv 98
28) Methyl tert-Butyl Ether	5.03	73	1897009	10.360	ppbv 99
29) Chloroform	5.75	83	2421864	9.753	ppbv 99
30) Cyclohexane	7.12	84	1305561	10.368	ppbv 99
31) cis-1,2-Dichloroethene	5.54	61	1547180	10.302	ppbv 94
32) 1,1,1-Trichloroethane	6.51	97	2459124	9.826	ppbv 98
34) 2-Butanone	5.24	43	1627431	8.996	ppbv 97
35) Carbon Tetrachloride	7.01	117	2605632	9.154	ppbv 97
36) Benzene	6.89	78	3249290	9.506	ppbv 99
37) 1,2-Dichloroethane	6.30	62	1874793	9.319	ppbv 100
38) Trichloroethene	7.83	130	1175128	8.834	ppbv 98
39) 1,2-Dichloropropane	7.61	63	1262961	9.109	ppbv 98
40) 1,4-Dioxane	7.83	88	334831m	10.376	ppbv
41) Tetrahydrofuran	6.04	42	776420	9.308	ppbv 93
42) Bromodichloromethane	7.79	83	2669505	9.756	ppbv 100
43) Methyl Methacrylate	8.01	69	1178580	10.269	ppbv 96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	5466476	9.087	ppbv	98
45) t-1,3-Dichloropropene	9.28	75	1422880	10.857	ppbv	100
46) cis-1,3-Dichloropropene	8.70	75	1760486	10.509	ppbv	99
47) 1,1,2-Trichloroethane	9.47	97	1306335	9.302	ppbv	98
48) Dibromochloromethane	10.30	129	2201846	10.285	ppbv	99
49) Bromoform	13.04	173	1773124	10.279	ppbv	99
50) 4-Methyl-2-Pentanone	8.74	43	2487497	9.503	ppbv	100
51) 2-Hexanone	10.13	43	1328813	10.059	ppbv #	99
52) Tetrachloroethene	11.22	164	1093865	8.691	ppbv	96
53) Toluene	9.80	91	3632310	9.979	ppbv	99
54) 1,2-Dibromoethane	10.61	107	1912208	9.642	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.13	131	1455230	10.381	ppbv	98
57) Chlorobenzene	12.15	112	2668701	10.120	ppbv	97
58) Ethyl Benzene	12.71	91	4878525	10.820	ppbv	98
59) m/p-Xylene	13.00	91	8180182m	20.800	ppbv	
60) o-Xylene	13.69	91	3841992	10.103	ppbv	99
61) Styrene	13.53	104	2263539	11.832	ppbv	99
62) Isopropylbenzene	14.67	105	5237049	10.227	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.68	83	2772954	9.559	ppbv	99
64) n-propylbenzene	15.56	120	1387051	11.078	ppbv	99
65) tert-Butylbenzene	16.74	119	4554648	10.257	ppbv	100
66) Benzyl Chloride	16.99	91	595176	12.126	ppbv	97
67) sec-Butylbenzene	17.29	105	6414762	10.234	ppbv	99
69) p-Isopropyltoluene	17.65	119	5277343	10.782	ppbv	99
70) n-Butylbenzene	18.55	91	5456651	10.752	ppbv	100
71) 2-Chlorotoluene	15.45	91	4030530	10.504	ppbv	99
72) 4-Ethyltoluene	15.84	105	4638156	11.131	ppbv	99
73) 1,3,5-Trimethylbenzene	16.00	105	4197466	10.793	ppbv	99
74) 1,2,4-Trimethylbenzene	16.77	105	4271223	10.263	ppbv #	92
75) 1,3-Dichlorobenzene	17.00	146	2491962	10.638	ppbv	99
76) 1,4-Dichlorobenzene	17.14	146	2420099	10.405	ppbv	99
77) 1,2-Dichlorobenzene	17.82	146	2384897	10.831	ppbv	99
78) Hexachloro-1,3-Butadiene	23.38	225	1748166	8.865	ppbv	99
79) Naphthalene	22.20	128	2930381	12.067	ppbv	98
80) Naphthalene, 2-methyl-	24.98	142	786790	16.429	ppbv	97
81) 1,2,4-Trichlorobenzene	21.93	180	1674628	11.169	ppbv	99

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

