

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031921\
 Data File : VL036448.D
 Acq On : 19 Mar 2021 14:27
 Operator :
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 3/24/2021 6:14:38 PM

Quant Time: Mar 20 00:46:08 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030321AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 0
 QLast Update : Wed Mar 03 14:18:24 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1679884	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	4066137	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	3923312m	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.40	95	3169968	9.83	ppbv	-0.03	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	2087767	8.993	ppbv	98
3) Chlorodifluoromethane	2.98	51	1833897	9.230	ppbv	100
4) Chloromethane	3.13	50	922233	9.767	ppbv	95
5) Vinyl Chloride	3.25	62	868714	9.744	ppbv	98
6) Bromomethane	3.46	94	514271	9.305	ppbv	97
7) Chloroethane	3.55	64	316965	9.439	ppbv	100
8) Dichlorotetrafluoroethane	3.18	85	2098916	9.203	ppbv	98
9) Propene	3.00	41	783543	9.050	ppbv	95
10) Heptane	8.10	43	2141972	10.035	ppbv	100
11) Trichlorofluoromethane	3.94	101	2217458	9.249	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1452814	9.501	ppbv	99
13) Ethanol	3.60	45	161992m	12.194	ppbv	
14) Bromoethene	3.73	108	616114	9.705	ppbv	98
15) Acetone	3.84	43	1724123	8.981	ppbv	99
16) 1,3-Butadiene	3.31	39	858031	9.266	ppbv	99
17) tert-Butyl alcohol	4.28	59	1643487	10.796	ppbv	100
18) 1,1-Dichloroethene	4.27	96	635855	9.350	ppbv	92
19) Isopropyl Alcohol	3.96	45	1098160	10.178	ppbv	99
20) Methylene Chloride	4.33	84	536818	8.296	ppbv	99
21) Allyl Chloride	4.40	41	1047176	9.674	ppbv	98
22) trans-1,2-Dichloroethene	4.87	96	594631	9.657	ppbv	95
23) Vinyl Acetate	5.06	43	2144590	9.871	ppbv	99
24) 1,1-Dichloroethane	5.00	63	1638262	9.554	ppbv	99
25) Ethyl Acetate	5.66	43	3585956	9.607	ppbv	99
26) Hexane	5.67	57	1453975	9.520	ppbv	99
27) Carbon Disulfide	4.53	76	1592341	10.505	ppbv	99
28) Methyl tert-Butyl Ether	5.02	73	1992171	9.734	ppbv	99
29) Chloroform	5.74	83	2385359	9.546	ppbv	100
30) Cyclohexane	7.11	84	1243963	9.857	ppbv	100
31) cis-1,2-Dichloroethene	5.54	61	1498985	10.161	ppbv	93
32) 1,1,1-Trichloroethane	6.49	97	2320578	9.242	ppbv	99
34) 2-Butanone	5.23	43	2275166	9.283	ppbv	99
35) Carbon Tetrachloride	7.00	117	2407579	9.164	ppbv	99
36) Benzene	6.88	78	3103910	9.838	ppbv	99
37) 1,2-Dichloroethane	6.29	62	1848251	9.323	ppbv	99
38) Trichloroethene	7.82	130	1101637	9.239	ppbv	98
39) 1,2-Dichloropropane	7.60	63	1231387	9.178	ppbv	96
40) 1,4-Dioxane	7.82	88	401940	9.126	ppbv #	1
41) Tetrahydrofuran	6.03	42	1346550	9.851	ppbv	98
42) Bromodichloromethane	7.78	83	2530250	9.444	ppbv	95
43) Methyl Methacrylate	8.00	69	1344993	10.526	ppbv	100

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

44) 2,2,4-Trimethylpentane	7.85	57	5270355	9.161	ppbv	100
45) t-1,3-Dichloropropene	9.26	75	1454119	11.693	ppbv	97
46) cis-1,3-Dichloropropene	8.68	75	1781975	10.976	ppbv	98
47) 1,1,2-Trichloroethane	9.46	97	1254450	9.380	ppbv	92
48) Dibromochloromethane	10.29	129	2104197	10.389	ppbv	100
49) Bromoform	13.02	173	1776756	10.724	ppbv	98
50) 4-Methyl-2-Pentanone	8.73	43	3529375	9.891	ppbv	99
51) 2-Hexanone	10.11	43	2922296	10.833	ppbv #	100
52) Tetrachloroethene	11.20	164	1050510	8.878	ppbv	97
53) Toluene	9.79	91	3458532	10.178	ppbv	100
54) 1,2-Dibromoethane	10.59	107	1850350	9.583	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.11	131	1562701	8.988	ppbv	99
57) Chlorobenzene	12.13	112	2550918	9.002	ppbv	97
58) Ethyl Benzene	12.69	91	4737134	9.718	ppbv	98
59) m/p-Xylene	12.98	91	8045165m	18.666	ppbv	
60) o-Xylene	13.68	91	3765449	9.094	ppbv	99
61) Styrene	13.51	104	2685358	10.665	ppbv	99
62) Isopropylbenzene	14.65	105	5681362	9.100	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.66	83	2712785	8.380	ppbv	100
64) n-propylbenzene	15.55	120	1482339	9.506	ppbv	98
65) tert-Butylbenzene	16.73	119	4897002	9.016	ppbv	100
66) Benzyl Chloride	16.97	91	1757457	11.590	ppbv	99
67) sec-Butylbenzene	17.28	105	6924397	9.129	ppbv	99
69) p-Isopropyltoluene	17.64	119	5684366	9.366	ppbv	100
70) n-Butylbenzene	18.54	91	5865434	9.349	ppbv	100
71) 2-Chlorotoluene	15.44	91	4369969	9.305	ppbv	98
72) 4-Ethyltoluene	15.82	105	4364684	9.706	ppbv	99
73) 1,3,5-Trimethylbenzene	15.98	105	4181684	9.584	ppbv	99
74) 1,2,4-Trimethylbenzene	16.75	105	4198125	9.062	ppbv	94
75) 1,3-Dichlorobenzene	16.98	146	2343499	9.109	ppbv	99
76) 1,4-Dichlorobenzene	17.12	146	2291943	8.915	ppbv	100
77) 1,2-Dichlorobenzene	17.80	146	2254880	8.952	ppbv	99
78) Hexachloro-1,3-Butadiene	23.36	225	1642569	8.195	ppbv	98
79) Naphthalene	22.18	128	3007677	11.084	ppbv	99
80) Naphthalene, 2-methyl-	24.97	142	978168	16.672	ppbv	100
81) 1,2,4-Trichlorobenzene	21.91	180	1603614	10.281	ppbv	99

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

