

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033121\
 Data File : VL036593.D
 Acq On : 31 Mar 2021 7:45
 Operator : SY/AP
 Sample : VL0331ABS01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0331ABS01

Manual Integrations
 APPROVED

MMDadoda
 4/2/2021 6:51:58 PM

Quant Time: Mar 31 08:41:23 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu 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	5.66	49	1324313	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.17	114	3150411	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2973212m	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2519805	10.63	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	2158311	9.992	ppbv	97
3) Chlorodifluoromethane	2.98	51	2641992	10.678	ppbv	100
4) Chloromethane	3.13	50	918425	10.509	ppbv	98
5) Vinyl Chloride	3.25	62	898401	9.997	ppbv	98
6) Bromomethane	3.47	94	499449	10.095	ppbv	99
7) Chloroethane	3.55	64	303523	9.829	ppbv	96
8) Dichlorotetrafluoroethane	3.18	85	2156539	10.461	ppbv	98
9) Propene	3.00	41	793901	10.065	ppbv	99
10) Heptane	8.11	43	2147892	10.689	ppbv	99
11) Trichlorofluoromethane	3.94	101	2237830	10.166	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1486687	10.563	ppbv	97
13) Ethanol	3.60	45	85807m	9.135	ppbv	
14) Bromoethene	3.73	108	628005	10.733	ppbv	98
15) Acetone	3.84	43	1367478	10.491	ppbv	99
16) 1,3-Butadiene	3.32	39	952353	10.495	ppbv	98
17) tert-Butyl alcohol	4.29	59	1036162	9.132	ppbv	100
18) 1,1-Dichloroethene	4.28	96	639056	10.208	ppbv	94
19) Isopropyl Alcohol	3.96	45	558781	7.793	ppbv	98
20) Methylene Chloride	4.34	84	578747	9.483	ppbv	97
21) Allyl Chloride	4.40	41	1028338	9.897	ppbv	99
22) trans-1,2-Dichloroethene	4.88	96	606014	10.442	ppbv	90
23) Vinyl Acetate	5.07	43	2289341	10.268	ppbv	98
24) 1,1-Dichloroethane	5.00	63	1666864	10.257	ppbv	99
25) Ethyl Acetate	5.67	43	3113408	10.047	ppbv	99
26) Hexane	5.68	57	1518073	10.556	ppbv	97
27) Carbon Disulfide	4.54	76	1625881	11.477	ppbv	98
28) Methyl tert-Butyl Ether	5.03	73	1652551	9.744	ppbv	99
29) Chloroform	5.74	83	2354844	10.239	ppbv	99
30) Cyclohexane	7.12	84	1246085	10.684	ppbv	99
31) cis-1,2-Dichloroethene	5.54	61	1467153	10.548	ppbv	97
32) 1,1,1-Trichloroethane	6.50	97	2373152	10.239	ppbv	99
34) 2-Butanone	5.24	43	1491935	9.702	ppbv	99
35) Carbon Tetrachloride	7.01	117	2497153	10.320	ppbv	97
36) Benzene	6.88	78	3068497	10.561	ppbv	99
37) 1,2-Dichloroethane	6.30	62	1808334	10.574	ppbv	100
38) Trichloroethene	7.83	130	1108096	9.800	ppbv	98
39) 1,2-Dichloropropane	7.61	63	1236236	10.489	ppbv	97
40) 1,4-Dioxane	7.83	88	230600m	8.406	ppbv	
41) Tetrahydrofuran	6.04	42	614254	8.663	ppbv	96
42) Bromodichloromethane	7.78	83	2526152	10.860	ppbv	98
43) Methyl Methacrylate	8.01	69	1162198	11.912	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	5268697	10.303	ppbv	100
45) t-1,3-Dichloropropene	9.28	75	1043403	9.366	ppbv	99
46) cis-1,3-Dichloropropene	8.70	75	1352073	9.494	ppbv	95
47) 1,1,2-Trichloroethane	9.47	97	1235010	10.345	ppbv	96
48) Dibromochloromethane	10.30	129	2025990	11.133	ppbv	100
49) Bromoform	13.04	173	1686356	11.501	ppbv	100
50) 4-Methyl-2-Pentanone	8.74	43	2265410	10.181	ppbv	99
51) 2-Hexanone	10.13	43	1197948	10.668	ppbv #	98
52) Tetrachloroethene	11.22	164	1047964	9.795	ppbv	98
53) Toluene	9.80	91	3415323	11.038	ppbv	100
54) 1,2-Dibromoethane	10.60	107	1761853	10.450	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.12	131	1433180	10.657	ppbv	94
57) Chlorobenzene	12.14	112	2520965	9.965	ppbv	99
58) Ethyl Benzene	12.70	91	4633247	10.711	ppbv	98
59) m/p-Xylene	12.99	91	7899338m	20.937	ppbv	
60) o-Xylene	13.69	91	3724047	10.208	ppbv	100
61) Styrene	13.52	104	2018146m	10.996	ppbv	
62) Isopropylbenzene	14.66	105	5119331	10.421	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.67	83	2697516	9.693	ppbv	100
64) n-propylbenzene	15.56	120	1333730	11.104	ppbv	97
65) tert-Butylbenzene	16.74	119	4434344	10.409	ppbv	99
66) Benzyl Chloride	16.99	91	524492m	11.139	ppbv	
67) sec-Butylbenzene	17.29	105	6271883	10.430	ppbv	100
69) p-Isopropyltoluene	17.65	119	5162385	10.994	ppbv	100
70) n-Butylbenzene	18.55	91	5362249	11.014	ppbv	100
71) 2-Chlorotoluene	15.45	91	4004748	10.879	ppbv	100
72) 4-Ethyltoluene	15.83	105	4302958	10.764	ppbv	100
73) 1,3,5-Trimethylbenzene	16.00	105	3958438	10.610	ppbv	99
74) 1,2,4-Trimethylbenzene	16.76	105	4112348	10.300	ppbv	99
75) 1,3-Dichlorobenzene	16.99	146	2373592	10.562	ppbv	99
76) 1,4-Dichlorobenzene	17.13	146	2248563	10.077	ppbv	99
77) 1,2-Dichlorobenzene	17.82	146	2249321	10.648	ppbv	99
78) Hexachloro-1,3-Butadiene	23.37	225	1722832	9.106	ppbv	98
79) Naphthalene	22.19	128	2578501	11.068	ppbv	98
80) Naphthalene, 2-methyl-	24.98	142	345929	7.530	ppbv	99
81) 1,2,4-Trichlorobenzene	21.92	180	1580938	10.991	ppbv	99

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

