

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051821\
 Data File : VL036952.D
 Acq On : 18 May 2021 3:16
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 5/20/2021 5:54:16 PM

Quant Time: May 18 11:44:28 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 2021
 QLast Update : Tue May 18 07:06:50 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1343541	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3960223	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3791035	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2816128	9.53	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	272101	1.187	ppbv	100
3) Chlorodifluoromethane	2.97	51	272394	1.032	ppbv	99
4) Chloromethane	3.13	50	90786	1.052	ppbv	95
5) Vinyl Chloride	3.24	62	91398	0.972	ppbv	98
6) Bromomethane	3.46	94	51309m	1.082	ppbv	
7) Chloroethane	3.55	64	29162	0.963	ppbv #	87
8) Dichlorotetrafluoroethane	3.17	85	242178	1.120	ppbv	100
9) Propene	2.99	41	94335	1.253	ppbv	95
10) Heptane	8.10	43	242694	1.354	ppbv	99
11) Trichlorofluoromethane	3.93	101	230958	1.120	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.47	101	160740	1.153	ppbv	100
13) Ethanol	3.63	45	13262m	0.928	ppbv	
14) Bromoethene	3.72	108	73985m	1.323	ppbv	
15) Acetone	3.84	43	165289m	1.310	ppbv	
16) 1,3-Butadiene	3.31	39	88679	1.086	ppbv	96
17) tert-Butyl alcohol	4.30	59	134898	1.157	ppbv #	94
18) 1,1-Dichloroethene	4.27	96	77523m	1.354	ppbv	
19) Isopropyl Alcohol	3.98	45	80401m	1.118	ppbv	
20) Methylene Chloride	4.33	84	88559m	0.860	ppbv	
21) Allyl Chloride	4.39	41	110112	1.185	ppbv	100
22) trans-1,2-Dichloroethene	4.86	96	69550m	1.184	ppbv	
23) Vinyl Acetate	5.06	43	211668	1.180	ppbv #	96
24) 1,1-Dichloroethane	4.99	63	170198	1.248	ppbv	99
25) Ethyl Acetate	5.67	43	353062	1.133	ppbv	98
26) Hexane	5.67	57	188368	1.177	ppbv	98
27) Carbon Disulfide	4.53	76	184353	1.300	ppbv	97
28) Methyl tert-Butyl Ether	5.02	73	215711	1.394	ppbv	97
29) Chloroform	5.73	83	246362	1.026	ppbv	99
30) Cyclohexane	7.11	84	152132	1.242	ppbv #	68
31) cis-1,2-Dichloroethene	5.53	61	165099	1.316	ppbv	97
32) 1,1,1-Trichloroethane	6.49	97	266475	1.041	ppbv	98
34) 2-Butanone	5.24	43	148349	0.980	ppbv #	90
35) Carbon Tetrachloride	7.00	117	268600	0.868	ppbv	94
36) Benzene	6.87	78	366622	1.152	ppbv	96
37) 1,2-Dichloroethane	6.28	62	174008	0.922	ppbv	98
38) Trichloroethene	7.81	130	142927	1.095	ppbv	98
39) 1,2-Dichloropropane	7.59	63	141107m	1.083	ppbv	
40) 1,4-Dioxane	7.86	88	37312m	1.098	ppbv	
41) Tetrahydrofuran	6.05	42	79930	1.292	ppbv	92
42) Bromodichloromethane	7.77	83	266381	0.959	ppbv	96
43) Methyl Methacrylate	8.00	69	120753	1.304	ppbv	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051821\
 Data File : VL036952.D
 Acq On : 18 May 2021 3:16
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 5/20/2021 5:54:16 PM

Quant Time: May 18 11:44:28 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 2021
 QLast Update : Tue May 18 07:06:50 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.84	57	650579	1.150	ppbv	98
45) t-1,3-Dichloropropene	9.25	75	90316m	1.080	ppbv	
46) cis-1,3-Dichloropropene	8.68	75	128044	1.094	ppbv	90
47) 1,1,2-Trichloroethane	9.45	97	143472	1.004	ppbv	97
48) Dibromochloromethane	10.28	129	230980	1.074	ppbv	98
49) Bromoform	13.01	173	188447m	1.065	ppbv	
50) 4-Methyl-2-Pentanone	8.74	43	235217	1.135	ppbv	96
51) 2-Hexanone	10.14	43	132024m	1.495	ppbv	
52) Tetrachloroethene	11.20	164	148673	1.271	ppbv	98
53) Toluene	9.78	91	436197	1.375	ppbv	100
54) 1,2-Dibromoethane	10.59	107	206626	1.107	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.10	131	173357	0.995	ppbv #	1
57) Chlorobenzene	12.12	112	328955	1.028	ppbv	94
58) Ethyl Benzene	12.69	91	577287	1.281	ppbv	95
59) m/p-Xylene	12.97	91	979314m	2.312	ppbv	
60) o-Xylene	13.67	91	472865	1.154	ppbv	100
61) Styrene	13.50	104	242508	1.442	ppbv	96
62) Isopropylbenzene	14.64	105	673104	1.205	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.65	83	308078	0.796	ppbv	98
64) n-propylbenzene	15.54	120	165732	1.199	ppbv	75
65) tert-Butylbenzene	16.72	119	607517	1.226	ppbv	98
66) Benzyl Chloride	16.96	91	31249m	0.693	ppbv	
67) sec-Butylbenzene	17.27	105	841652	1.203	ppbv	98
69) p-Isopropyltoluene	17.63	119	717857	1.348	ppbv	99
70) n-Butylbenzene	18.53	91	656757	1.230	ppbv	98
71) 2-Chlorotoluene	15.43	91	469249	1.175	ppbv	99
72) 4-Ethyltoluene	15.82	105	543015	1.280	ppbv	99
73) 1,3,5-Trimethylbenzene	15.97	105	493390	1.190	ppbv	99
74) 1,2,4-Trimethylbenzene	16.74	105	545399	1.198	ppbv	91
75) 1,3-Dichlorobenzene	16.97	146	309974	1.050	ppbv	97
76) 1,4-Dichlorobenzene	17.11	146	327896m	1.243	ppbv	
77) 1,2-Dichlorobenzene	17.79	146	324278m	1.213	ppbv	
78) Hexachloro-1,3-Butadiene	23.36	225	269289	1.128	ppbv	97
79) Naphthalene	22.18	128	385227	1.873	ppbv	97
80) Naphthalene, 2-methyl-	24.97	142	76149m	2.526	ppbv	
81) 1,2,4-Trichlorobenzene	21.91	180	240117m	1.631	ppbv	

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

