

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051821\
 Data File : VL036953.D
 Acq On : 18 May 2021 3:53
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 5/20/2021 5:54:18 PM

Quant Time: May 18 11:56:52 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	1368900	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3888919	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3671788	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2741105	9.57	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	141992	0.608	ppbv	94
3) Chlorodifluoromethane	2.97	51	133764	0.497	ppbv	98
4) Chloromethane	3.13	50	42590	0.485	ppbv	100
5) Vinyl Chloride	3.24	62	42542	0.444	ppbv	100
6) Bromomethane	3.46	94	27231m	0.563	ppbv	
7) Chloroethane	3.54	64	13858	0.449	ppbv	92
8) Dichlorotetrafluoroethane	3.17	85	113359	0.515	ppbv	94
9) Propene	3.00	41	48878	0.637	ppbv	92
10) Heptane	8.10	43	118203	0.647	ppbv	98
11) Trichlorofluoromethane	3.93	101	110327	0.525	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.47	101	80522	0.567	ppbv	100
13) Ethanol	3.62	45	8179m	0.562	ppbv	
14) Bromoethene	3.72	108	33270	0.584	ppbv #	89
15) Acetone	3.86	43	84009m	0.653	ppbv	
16) 1,3-Butadiene	3.31	39	46299	0.557	ppbv	100
17) tert-Butyl alcohol	4.32	59	74801m	0.630	ppbv	
18) 1,1-Dichloroethene	4.27	96	35002	0.600	ppbv	96
19) Isopropyl Alcohol	3.99	45	49680m	0.678	ppbv	
20) Methylene Chloride	4.33	84	44970m	0.428	ppbv	
21) Allyl Chloride	4.39	41	55986	0.592	ppbv	95
22) trans-1,2-Dichloroethene	4.87	96	35098m	0.586	ppbv	
23) Vinyl Acetate	5.07	43	112339m	0.614	ppbv	
24) 1,1-Dichloroethane	4.99	63	77766	0.560	ppbv	97
25) Ethyl Acetate	5.67	43	177244	0.558	ppbv	96
26) Hexane	5.67	57	94296m	0.578	ppbv	
27) Carbon Disulfide	4.53	76	84830	0.587	ppbv	94
28) Methyl tert-Butyl Ether	5.03	73	108372	0.688	ppbv	98
29) Chloroform	5.73	83	133020	0.544	ppbv	97
30) Cyclohexane	7.11	84	78136	0.626	ppbv	88
31) cis-1,2-Dichloroethene	5.53	61	76829	0.601	ppbv	91
32) 1,1,1-Trichloroethane	6.49	97	129720	0.497	ppbv	97
34) 2-Butanone	5.24	43	67011	0.451	ppbv #	76
35) Carbon Tetrachloride	7.00	117	130089	0.428	ppbv	98
36) Benzene	6.87	78	179434	0.574	ppbv	98
37) 1,2-Dichloroethane	6.28	62	86614m	0.467	ppbv	
38) Trichloroethene	7.81	130	70441	0.550	ppbv	93
39) 1,2-Dichloropropane	7.59	63	68334	0.534	ppbv #	84
40) 1,4-Dioxane	7.87	88	19864m	0.595	ppbv	
41) Tetrahydrofuran	6.06	42	45129m	0.743	ppbv	
42) Bromodichloromethane	7.76	83	127280	0.466	ppbv	92
43) Methyl Methacrylate	8.00	69	57869m	0.637	ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.85	57	322743	0.581	ppbv	99
45) t-1,3-Dichloropropene	9.26	75	39446m	0.480	ppbv	
46) cis-1,3-Dichloropropene	8.68	75	53552	0.466	ppbv	94
47) 1,1,2-Trichloroethane	9.45	97	72582	0.517	ppbv	95
48) Dibromochloromethane	10.28	129	106248	0.503	ppbv	95
49) Bromoform	13.01	173	79478	0.457	ppbv	97
50) 4-Methyl-2-Pentanone	8.75	43	125122m	0.615	ppbv	
51) 2-Hexanone	10.15	43	62352m	0.719	ppbv	
52) Tetrachloroethene	11.19	164	74376m	0.648	ppbv	
53) Toluene	9.78	91	219205	0.703	ppbv	99
54) 1,2-Dibromoethane	10.59	107	97463	0.532	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.10	131	82957	0.491	ppbv #	1
57) Chlorobenzene	12.12	112	150785	0.487	ppbv #	93
58) Ethyl Benzene	12.68	91	290739m	0.666	ppbv	
59) m/p-Xylene	12.97	91	473780m	1.155	ppbv	
60) o-Xylene	13.67	91	226177	0.570	ppbv	96
61) Styrene	13.50	104	116095m	0.713	ppbv	
62) Isopropylbenzene	14.64	105	330775m	0.611	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.65	83	149521m	0.399	ppbv	
64) n-propylbenzene	15.54	120	78983m	0.590	ppbv	
65) tert-Butylbenzene	16.72	119	299216	0.624	ppbv	97
66) Benzyl Chloride	16.98	91	13197m	0.302	ppbv	
67) sec-Butylbenzene	17.27	105	398658	0.588	ppbv	100
69) p-Isopropyltoluene	17.63	119	335700	0.651	ppbv	99
70) n-Butylbenzene	18.54	91	313204m	0.606	ppbv	
71) 2-Chlorotoluene	15.43	91	234600	0.606	ppbv	99
72) 4-Ethyltoluene	15.82	105	253832	0.618	ppbv	95
73) 1,3,5-Trimethylbenzene	15.97	105	260031m	0.647	ppbv	
74) 1,2,4-Trimethylbenzene	16.74	105	248533	0.564	ppbv	90
75) 1,3-Dichlorobenzene	16.97	146	157700m	0.552	ppbv	
76) 1,4-Dichlorobenzene	17.11	146	158474m	0.620	ppbv	
77) 1,2-Dichlorobenzene	17.80	146	159560m	0.616	ppbv	
78) Hexachloro-1,3-Butadiene	23.35	225	140611m	0.608	ppbv	
79) Naphthalene	22.18	128	149868	0.752	ppbv	97
80) Naphthalene, 2-methyl-	25.01	142	40220m	1.378	ppbv	
81) 1,2,4-Trichlorobenzene	21.90	180	107793m	0.756	ppbv	

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

