

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050619\
 Data File : VL033657.D
 Acq On : 6 May 2019 12:54
 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
 5/8/2019 12:06:06 PM

Quant Time: May 06 14:21:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 0
 QLast Update : Mon May 06 12:00:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	983113	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2505902	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2356220	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1965043	10.44	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	140167	0.855	ppbv	96
3) Chlorodifluoromethane	3.01	51	82343	0.695	ppbv	95
4) Chloromethane	3.17	50	39172	0.600	ppbv	93
5) Vinyl Chloride	3.29	62	35890	0.528	ppbv	96
6) Bromomethane	3.51	94	24865	0.616	ppbv	94
7) Chloroethane	3.60	64	13926m	0.614	ppbv	
8) Dichlorotetrafluoroethane	3.22	85	98074	0.593	ppbv	99
9) Propene	3.03	41	28428	0.689	ppbv	97
10) Heptane	8.24	43	59365	0.473	ppbv	99
11) Trichlorofluoromethane	4.00	101	113573	0.623	ppbv	88
12) 1,1,2-Trichlorotrifluoroet	4.55	101	76510	0.611	ppbv	99
13) Ethanol	3.65	45	11109m	0.729	ppbv	
14) Bromoethene	3.78	108	28062	0.553	ppbv	99
15) Acetone	3.91	43	80538	0.651	ppbv	95
16) 1,3-Butadiene	3.36	39	30423	0.552	ppbv	96
17) tert-Butyl alcohol	4.37	59	60604	0.582	ppbv	97
18) 1,1-Dichloroethene	4.35	96	34316	0.631	ppbv	93
19) Isopropyl Alcohol	4.03	45	48695m	0.589	ppbv	
20) Methylene Chloride	4.41	84	29954m	0.619	ppbv	
21) Allyl Chloride	4.47	41	44563	0.575	ppbv	94
22) trans-1,2-Dichloroethene	4.96	96	31902	0.594	ppbv	96
23) Vinyl Acetate	5.15	43	81680	0.455	ppbv #	97
24) 1,1-Dichloroethane	5.08	63	75365	0.562	ppbv #	96
25) Ethyl Acetate	5.77	43	120033	0.524	ppbv	99
26) Hexane	5.78	57	49164	0.508	ppbv	90
27) Carbon Disulfide	4.62	76	61192	0.509	ppbv #	84
28) Methyl tert-Butyl Ether	5.12	73	77969	0.479	ppbv	97
29) Chloroform	5.84	83	97332	0.550	ppbv	93
30) Cyclohexane	7.24	84	37551	0.457	ppbv	91
31) cis-1,2-Dichloroethene	5.63	61	44100	0.452	ppbv	96
32) 1,1,1-Trichloroethane	6.62	97	96487m	0.520	ppbv	
34) 2-Butanone	5.33	43	75407	0.486	ppbv	98
35) Carbon Tetrachloride	7.13	117	99898	0.497	ppbv	97
36) Benzene	7.00	78	104185	0.480	ppbv	96
37) 1,2-Dichloroethane	6.41	62	100647m	0.699	ppbv	
38) Trichloroethene	7.96	130	39050	0.453	ppbv #	78
39) 1,2-Dichloropropane	7.73	63	39144	0.481	ppbv	90
40) 1,4-Dioxane	7.98	88	15788m	0.483	ppbv	
41) Tetrahydrofuran	6.17	42	32570	0.391	ppbv	96
42) Bromodichloromethane	7.91	83	95114	0.487	ppbv	93
43) Methyl Methacrylate	8.14	69	34332m	0.420	ppbv	

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

44) 2,2,4-Trimethylpentane	7.98	57	172933	0.459	ppbv	# 92
45) t-1,3-Dichloropropene	9.41	75	35955	0.341	ppbv	# 79
46) cis-1,3-Dichloropropene	8.83	75	63467m	0.519	ppbv	
47) 1,1,2-Trichloroethane	9.61	97	44845	0.466	ppbv	96
48) Dibromochloromethane	10.44	129	68418m	0.424	ppbv	
49) Bromoform	13.19	173	55552	0.401	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	105630m	0.435	ppbv	
51) 2-Hexanone	10.29	43	72458m	0.380	ppbv	
52) Tetrachloroethene	11.36	164	37133	0.452	ppbv	95
53) Toluene	9.94	91	88802	0.363	ppbv	100
54) 1,2-Dibromoethane	10.75	107	64885	0.452	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.27	131	55921	0.542	ppbv	# 1
57) Chlorobenzene	12.29	112	102539	0.558	ppbv	95
58) Ethyl Benzene	12.86	91	126944	0.429	ppbv	90
59) m/p-Xylene	13.14	91	240929m	0.946	ppbv	
60) o-Xylene	13.84	91	122260	0.477	ppbv	100
61) Styrene	13.69	104	65104m	0.370	ppbv	
62) Isopropylbenzene	14.82	105	165533	0.484	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	104482	0.538	ppbv	99
64) n-propylbenzene	15.72	120	41238m	0.464	ppbv	
65) tert-Butylbenzene	16.91	119	148495m	0.464	ppbv	
66) Benzyl Chloride	17.15	91	56642	0.384	ppbv	99
67) sec-Butylbenzene	17.45	105	210451	0.469	ppbv	100
69) p-Isopropyltoluene	17.81	119	166453m	0.446	ppbv	
70) n-Butylbenzene	18.71	91	180206	0.443	ppbv	96
71) 2-Chlorotoluene	15.61	91	112803	0.440	ppbv	100
72) 4-Ethyltoluene	15.99	105	131724	0.449	ppbv	# 97
73) 1,3,5-Trimethylbenzene	16.15	105	130926	0.455	ppbv	97
74) 1,2,4-Trimethylbenzene	16.92	105	162464	0.509	ppbv	95
75) 1,3-Dichlorobenzene	17.16	146	105960m	0.535	ppbv	
76) 1,4-Dichlorobenzene	17.30	146	92675	0.491	ppbv	97
77) 1,2-Dichlorobenzene	17.98	146	94501m	0.513	ppbv	
78) Hexachloro-1,3-Butadiene	23.53	225	81027	0.576	ppbv	98
79) Naphthalene	22.41	128	118324m	0.397	ppbv	
80) Naphthalene, 2-methyl-	25.11	142	32130	0.254	ppbv	96
81) 1,2,4-Trichlorobenzene	22.13	180	81102m	0.473	ppbv	

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

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