

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050119\
 Data File : VL033617.D
 Acq On : 1 May 2019 13:52
 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
 5/2/2019 4:03:58 PM

Quant Time: May 02 05:09:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050119AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 02 2019
 QLast Update : Thu May 02 04:03:11 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	1092951	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2594003	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2658119	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.56	95	2174958	10.67	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	117725	0.715	ppbv	94
3) Chlorodifluoromethane	3.01	51	74472m	0.532	ppbv	
4) Chloromethane	3.17	50	40195	0.565	ppbv #	86
5) Vinyl Chloride	3.28	62	37459	0.502	ppbv #	86
6) Bromomethane	3.51	94	25068m	0.570	ppbv	
7) Chloroethane	3.60	64	13267	0.533	ppbv #	84
8) Dichlorotetrafluoroethane	3.21	85	98818	0.551	ppbv	97
9) Propene	3.03	41	28526	0.762	ppbv #	80
10) Heptane	8.24	43	61776	0.446	ppbv	99
11) Trichlorofluoromethane	4.00	101	114514	0.585	ppbv	91
12) 1,1,2-Trichlorotrifluoroet	4.55	101	77100	0.574	ppbv	97
13) Ethanol	3.65	45	11510m	0.678	ppbv	
14) Bromoethene	3.78	108	29786	0.540	ppbv #	95
15) Acetone	3.90	43	80706	0.607	ppbv	98
16) 1,3-Butadiene	3.35	39	30919	0.516	ppbv	97
17) tert-Butyl alcohol	4.35	59	65592m	0.571	ppbv	
18) 1,1-Dichloroethene	4.35	96	33618	0.576	ppbv #	82
19) Isopropyl Alcohol	4.02	45	52529	0.575	ppbv #	92
20) Methylene Chloride	4.40	84	31325	0.604	ppbv #	92
21) Allyl Chloride	4.47	41	44593	0.533	ppbv	96
22) trans-1,2-Dichloroethene	4.96	96	30706m	0.537	ppbv	
23) Vinyl Acetate	5.14	43	96000	0.485	ppbv #	94
24) 1,1-Dichloroethane	5.08	63	79726	0.541	ppbv	97
25) Ethyl Acetate	5.76	43	128127	0.507	ppbv	99
26) Hexane	5.77	57	51721	0.486	ppbv	89
27) Carbon Disulfide	4.62	76	60881	0.473	ppbv #	84
28) Methyl tert-Butyl Ether	5.11	73	85908	0.479	ppbv	99
29) Chloroform	5.83	83	103890	0.533	ppbv	94
30) Cyclohexane	7.24	84	39986m	0.434	ppbv	
31) cis-1,2-Dichloroethene	5.63	61	51158m	0.477	ppbv	
32) 1,1,1-Trichloroethane	6.61	97	103166	0.505	ppbv	98
34) 2-Butanone	5.33	43	77727	0.488	ppbv	98
35) Carbon Tetrachloride	7.12	117	99911	0.486	ppbv	93
36) Benzene	6.99	78	107491	0.486	ppbv #	94
37) 1,2-Dichloroethane	6.40	62	78278	0.533	ppbv	99
38) Trichloroethene	7.95	130	44596	0.504	ppbv	88
39) 1,2-Dichloropropane	7.72	63	38038	0.456	ppbv	95
40) 1,4-Dioxane	7.98	88	19270m	0.569	ppbv	
41) Tetrahydrofuran	6.16	42	36688	0.431	ppbv	95
42) Bromodichloromethane	7.90	83	99104	0.499	ppbv	90
43) Methyl Methacrylate	8.13	69	35848	0.428	ppbv	99

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

44) 2,2,4-Trimethylpentane	7.98	57	189633	0.492	ppbv	94
45) t-1,3-Dichloropropene	9.40	75	41035m	0.369	ppbv	
46) cis-1,3-Dichloropropene	8.83	75	47224	0.377	ppbv	93
47) 1,1,2-Trichloroethane	9.60	97	49328	0.454	ppbv	91
48) Dibromochloromethane	10.44	129	74203	0.403	ppbv	99
49) Bromoform	13.18	173	62399m	0.443	ppbv	
50) 4-Methyl-2-Pentanone	8.87	43	106850	0.428	ppbv	95
51) 2-Hexanone	10.27	43	80105	0.366	ppbv #	91
52) Tetrachloroethene	11.36	164	41201	0.485	ppbv	92
53) Toluene	9.94	91	100405	0.360	ppbv	97
54) 1,2-Dibromoethane	10.75	107	69433	0.465	ppbv	90
56) 1,1,1,2-Tetrachloroethane	12.27	131	61636	0.531	ppbv #	1
57) Chlorobenzene	12.29	112	110499	0.534	ppbv	96
58) Ethyl Benzene	12.86	91	145152	0.469	ppbv	98
59) m/p-Xylene	13.13	91	265827m	0.994	ppbv	
60) o-Xylene	13.84	91	132248	0.492	ppbv	95
61) Styrene	13.67	104	76549	0.416	ppbv	94
62) Isopropylbenzene	14.82	105	177983	0.495	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.82	83	114739	0.545	ppbv	98
64) n-propylbenzene	15.72	120	44537	0.478	ppbv	88
65) tert-Butylbenzene	16.90	119	161613m	0.481	ppbv	
66) Benzyl Chloride	17.15	91	61736	0.405	ppbv	97
67) sec-Butylbenzene	17.45	105	226240	0.480	ppbv	98
69) p-Isopropyltoluene	17.81	119	178269	0.454	ppbv	95
70) n-Butylbenzene	18.70	91	202860	0.475	ppbv	96
71) 2-Chlorotoluene	15.61	91	127457	0.474	ppbv	100
72) 4-Ethyltoluene	15.99	105	134336	0.439	ppbv #	95
73) 1,3,5-Trimethylbenzene	16.15	105	143908	0.478	ppbv	90
74) 1,2,4-Trimethylbenzene	16.91	105	172370	0.514	ppbv #	89
75) 1,3-Dichlorobenzene	17.15	146	115424	0.553	ppbv	96
76) 1,4-Dichlorobenzene	17.30	146	103411	0.519	ppbv	99
77) 1,2-Dichlorobenzene	17.98	146	100913m	0.518	ppbv	
78) Hexachloro-1,3-Butadiene	23.53	225	86075	0.580	ppbv	98
79) Naphthalene	22.40	128	134578m	0.434	ppbv	
80) Naphthalene, 2-methyl-	25.11	142	42860	0.319	ppbv	97
81) 1,2,4-Trichlorobenzene	22.12	180	89135m	0.496	ppbv	

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

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