

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070219\
 Data File : VL033990.D
 Acq On : 2 Jul 2019 14:21
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 7/3/2019 11:03:28 PM

Quant Time: Jul 02 16:37:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 02 16:37:29 2019
 QLast Update : Tue Jul 02 16:27:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	1165030	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.26	114	2987865	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.20	117	2991738	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.54	95	3077754	12.52	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	125.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	457567	2.420	ppbv	99
3) Chlorodifluoromethane	3.00	51	286488	2.089	ppbv	98
4) Chloromethane	3.16	50	169327	2.164	ppbv	99
5) Vinyl Chloride	3.27	62	182192	2.510	ppbv	94
6) Bromomethane	3.50	94	117934	2.446	ppbv	94
7) Chloroethane	3.58	64	68895	2.400	ppbv	96
8) Dichlorotetrafluoroethane	3.20	85	485874	2.405	ppbv	98
9) Propene	3.02	41	112196	2.186	ppbv	100
10) Heptane	8.21	43	280034	2.159	ppbv	100
11) Trichlorofluoromethane	3.98	101	520895	2.135	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.53	101	367107	2.227	ppbv	100
13) Ethanol	3.63	45	35886	2.149	ppbv #	35
14) Bromoethene	3.77	108	152942	2.490	ppbv	98
15) Acetone	3.89	43	382981	2.254	ppbv	98
16) 1,3-Butadiene	3.35	39	146847	2.271	ppbv	97
17) tert-Butyl alcohol	4.34	59	301658m	2.271	ppbv	
18) 1,1-Dichloroethene	4.33	96	164371	2.361	ppbv	97
19) Isopropyl Alcohol	4.01	45	247149	2.546	ppbv #	97
20) Methylene Chloride	4.39	84	171800	2.593	ppbv	92
21) Allyl Chloride	4.46	41	234057	2.425	ppbv	99
22) trans-1,2-Dichloroethene	4.94	96	163231	2.224	ppbv	98
23) Vinyl Acetate	5.13	43	429351	2.174	ppbv	98
24) 1,1-Dichloroethane	5.07	63	364234	2.371	ppbv	98
25) Ethyl Acetate	5.74	43	568286	2.196	ppbv	99
26) Hexane	5.75	57	262487	2.228	ppbv	98
27) Carbon Disulfide	4.60	76	387283	2.366	ppbv	96
28) Methyl tert-Butyl Ether	5.09	73	445856	2.503	ppbv	98
29) Chloroform	5.82	83	478212	2.370	ppbv	99
30) Cyclohexane	7.22	84	202011m	2.427	ppbv	
31) cis-1,2-Dichloroethene	5.62	61	250154	2.421	ppbv	95
32) 1,1,1-Trichloroethane	6.59	97	465885	2.393	ppbv	99
34) 2-Butanone	5.31	43	353732	2.099	ppbv	96
35) Carbon Tetrachloride	7.10	117	471336	2.042	ppbv	94
36) Benzene	6.98	78	496253	2.174	ppbv	95
37) 1,2-Dichloroethane	6.38	62	360718	2.137	ppbv	99
38) Trichloroethene	7.93	130	214852	2.418	ppbv	91
39) 1,2-Dichloropropane	7.70	63	181983	2.066	ppbv	93
40) 1,4-Dioxane	7.94	88	80762m	2.248	ppbv	
41) Tetrahydrofuran	6.13	42	171422	2.004	ppbv	96
42) Bromodichloromethane	7.89	83	485747	2.153	ppbv	89
43) Methyl Methacrylate	8.10	69	185553	2.174	ppbv	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.96	57	869410	2.142	ppbv	99
45) t-1,3-Dichloropropene	9.38	75	234657	2.095	ppbv	99
46) cis-1,3-Dichloropropene	8.80	75	272849	2.126	ppbv	92
47) 1,1,2-Trichloroethane	9.58	97	229377m	2.184	ppbv	
48) Dibromochloromethane	10.42	129	399609	2.117	ppbv	99
49) Bromoform	13.16	173	384034m	2.305	ppbv	
50) 4-Methyl-2-Pentanone	8.85	43	508986	2.025	ppbv	99
51) 2-Hexanone	10.25	43	390006	1.987	ppbv #	97
52) Tetrachloroethene	11.34	164	204475	2.546	ppbv	93
53) Toluene	9.91	91	580186	2.297	ppbv	98
54) 1,2-Dibromoethane	10.72	107	337007m	2.129	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.24	131	283284	2.168	ppbv #	1
57) Chlorobenzene	12.26	112	497039	2.218	ppbv #	93
58) Ethyl Benzene	12.83	91	789713	2.341	ppbv	94
59) m/p-Xylene	13.11	91	1427324m	4.653	ppbv	
60) o-Xylene	13.81	91	732668	2.313	ppbv	97
61) Styrene	13.65	104	473655	2.311	ppbv	97
62) Isopropylbenzene	14.79	105	1284148	3.008	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.80	83	511161	2.144	ppbv	100
64) n-propylbenzene	15.69	120	333925m	3.055	ppbv	
65) tert-Butylbenzene	16.87	119	911695	2.308	ppbv	99
66) Benzyl Chloride	17.12	91	424390	2.120	ppbv	99
67) sec-Butylbenzene	17.42	105	1258868	2.272	ppbv	99
69) p-Isopropyltoluene	17.78	119	1061104	2.302	ppbv	99
70) n-Butylbenzene	18.68	91	1102087	2.183	ppbv	99
71) 2-Chlorotoluene	15.58	91	966120	3.072	ppbv	98
72) 4-Ethyltoluene	15.96	105	1081830	3.002	ppbv	98
73) 1,3,5-Trimethylbenzene	16.12	105	812162	2.288	ppbv	98
74) 1,2,4-Trimethylbenzene	16.89	105	901176	2.203	ppbv	97
75) 1,3-Dichlorobenzene	17.13	146	557792	2.177	ppbv	99
76) 1,4-Dichlorobenzene	17.27	146	529783	2.252	ppbv	99
77) 1,2-Dichlorobenzene	17.95	146	528311m	2.234	ppbv	
78) Hexachloro-1,3-Butadiene	23.50	225	464613m	2.516	ppbv	
79) Naphthalene	22.37	128	791685m	2.421	ppbv	
80) Naphthalene, 2-methyl-	25.08	142	344329	2.639	ppbv	95
81) 1,2,4-Trichlorobenzene	22.09	180	498176	2.413	ppbv	98

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

