

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051719\
 Data File : VL033701.D
 Acq On : 17 May 2019 2:40
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 5/20/2019 12:04:58 PM

Quant Time: May 17 07:56:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 2019
 QLast Update : Fri May 17 07:07:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1144129	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2757053	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2794922	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	2222882	9.70	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	505551	1.933	ppbv	97
3) Chlorodifluoromethane	3.01	51	266249m	1.622	ppbv	
4) Chloromethane	3.17	50	158014	1.850	ppbv	97
5) Vinyl Chloride	3.29	62	151451	1.821	ppbv	100
6) Bromomethane	3.51	94	97153	1.835	ppbv	98
7) Chloroethane	3.60	64	56021	1.851	ppbv	100
8) Dichlorotetrafluoroethane	3.22	85	405121	1.849	ppbv	99
9) Propene	3.03	41	117009	1.862	ppbv	98
10) Heptane	8.24	43	322115	2.068	ppbv	98
11) Trichlorofluoromethane	4.00	101	485975	1.930	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	349643	2.059	ppbv	100
13) Ethanol	3.65	45	39784m	2.079	ppbv	
14) Bromoethene	3.79	108	129023	1.969	ppbv	99
15) Acetone	3.90	43	348940	2.037	ppbv	98
16) 1,3-Butadiene	3.36	39	133599	1.859	ppbv	100
17) tert-Butyl alcohol	4.36	59	277637	2.107	ppbv	99
18) 1,1-Dichloroethene	4.35	96	150620	2.060	ppbv	99
19) Isopropyl Alcohol	4.02	45	213815	1.999	ppbv	# 98
20) Methylene Chloride	4.40	84	136486	2.107	ppbv	96
21) Allyl Chloride	4.47	41	218855	2.103	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	154177	2.126	ppbv	99
23) Vinyl Acetate	5.15	43	476530	2.158	ppbv	99
24) 1,1-Dichloroethane	5.08	63	349938	2.098	ppbv	99
25) Ethyl Acetate	5.76	43	589284	2.112	ppbv	100
26) Hexane	5.78	57	256582	2.139	ppbv	97
27) Carbon Disulfide	4.62	76	357661	2.172	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	457197	2.282	ppbv	100
29) Chloroform	5.84	83	443356	2.060	ppbv	94
30) Cyclohexane	7.24	84	210892	2.106	ppbv	86
31) cis-1,2-Dichloroethene	5.63	61	249945	2.120	ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	447093	2.019	ppbv	99
34) 2-Butanone	5.33	43	382249	2.161	ppbv	99
35) Carbon Tetrachloride	7.13	117	471667	2.079	ppbv	97
36) Benzene	7.00	78	534913	2.147	ppbv	98
37) 1,2-Dichloroethane	6.41	62	338946	1.952	ppbv	100
38) Trichloroethene	7.96	130	209702	2.307	ppbv	94
39) 1,2-Dichloropropane	7.73	63	192522	2.073	ppbv	93
40) 1,4-Dioxane	7.96	88	81317	2.164	ppbv	# 99
41) Tetrahydrofuran	6.15	42	209753	2.265	ppbv	99
42) Bromodichloromethane	7.91	83	462694	2.073	ppbv	95
43) Methyl Methacrylate	8.13	69	196622	2.103	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.98	57	915005	2.151	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	241386	2.090	ppbv	93
46) cis-1,3-Dichloropropene	8.83	75	289161	2.014	ppbv	93
47) 1,1,2-Trichloroethane	9.61	97	220239	2.065	ppbv	98
48) Dibromochloromethane	10.44	129	376657	2.079	ppbv	99
49) Bromoform	13.20	173	322846	2.083	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	557454	2.078	ppbv	100
51) 2-Hexanone	10.27	43	437135	2.093	ppbv #	98
52) Tetrachloroethene	11.37	164	190569	2.157	ppbv	97
53) Toluene	9.95	91	583064m	2.160	ppbv	
54) 1,2-Dibromoethane	10.75	107	338323	2.101	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.27	131	266880	2.053	ppbv #	1
57) Chlorobenzene	12.30	112	474264	2.047	ppbv	99
58) Ethyl Benzene	12.86	91	793181	2.155	ppbv	99
59) m/p-Xylene	13.15	91	1396290m	4.305	ppbv	
60) o-Xylene	13.84	91	694555	2.122	ppbv	99
61) Styrene	13.68	104	480361	2.198	ppbv	99
62) Isopropylbenzene	14.82	105	934436	2.087	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	495187	2.085	ppbv	98
64) n-propylbenzene	15.72	120	242947m	2.104	ppbv	
65) tert-Butylbenzene	16.90	119	893237	2.175	ppbv	98
66) Benzyl Chloride	17.15	91	396458	2.109	ppbv	100
67) sec-Butylbenzene	17.45	105	1233855	2.158	ppbv	99
69) p-Isopropyltoluene	17.81	119	1036328	2.198	ppbv	99
70) n-Butylbenzene	18.71	91	1103968	2.216	ppbv	99
71) 2-Chlorotoluene	15.61	91	711362	2.153	ppbv	100
72) 4-Ethyltoluene	16.00	105	803125	2.090	ppbv	99
73) 1,3,5-Trimethylbenzene	16.15	105	785424	2.116	ppbv	97
74) 1,2,4-Trimethylbenzene	16.92	105	851815	2.059	ppbv	95
75) 1,3-Dichlorobenzene	17.16	146	518331	2.081	ppbv	99
76) 1,4-Dichlorobenzene	17.30	146	491316	2.079	ppbv	98
77) 1,2-Dichlorobenzene	17.98	146	487518	2.109	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	366482	1.999	ppbv	100
79) Naphthalene	22.41	128	811919	2.148	ppbv	96
80) Naphthalene, 2-methyl-	25.11	142	303145	2.100	ppbv	98
81) 1,2,4-Trichlorobenzene	22.13	180	471848	2.146	ppbv	99

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

