

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070820\
 Data File : VL035174.D
 Acq On : 8 Jul 2020 6:28
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 7/9/2020 12:02:40 PM

Quant Time: Jul 08 07:03:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070820AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 08
 QLast Update : Wed Jul 08 06:17:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1328013	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3133561	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	3212149	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	2463952	9.23	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.30%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.00	85	1904177	10.587	ppbv 99
3) Chlorodifluoromethane	2.94	51	1854150	12.748	ppbv 99
4) Chloromethane	3.10	50	1085015	13.356	ppbv 100
5) Vinyl Chloride	3.21	62	1095373	14.051	ppbv 98
6) Bromomethane	3.43	94	681924	13.996	ppbv 96
7) Chloroethane	3.52	64	418615	14.141	ppbv 96
8) Dichlorotetrafluoroethane	3.14	85	2431384	12.633	ppbv 100
9) Propene	2.96	41	775954	13.554	ppbv 97
10) Heptane	8.13	43	2221603	14.910	ppbv 99
11) Trichlorofluoromethane	3.92	101	2601138	13.421	ppbv 97
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1853826	13.814	ppbv 99
13) Ethanol	3.56	45	196490	9.261	ppbv 94
14) Bromoethene	3.70	108	848042	14.756	ppbv 98
15) Acetone	3.81	43	2007381	12.434	ppbv 99
16) 1,3-Butadiene	3.29	39	998456	14.271	ppbv 99
17) tert-Butyl alcohol	4.26	59	2250918	15.672	ppbv 100
18) 1,1-Dichloroethene	4.26	96	864385	14.301	ppbv 96
19) Isopropyl Alcohol	3.93	45	1527893	14.718	ppbv # 97
20) Methylene Chloride	4.31	84	768465	11.695	ppbv 98
21) Allyl Chloride	4.38	41	1444031	15.097	ppbv 99
22) trans-1,2-Dichloroethene	4.86	96	857883	15.045	ppbv 98
23) Vinyl Acetate	5.05	43	2855410	14.783	ppbv 99
24) 1,1-Dichloroethane	4.99	63	2204260	13.449	ppbv 99
25) Ethyl Acetate	5.66	43	3837611	13.316	ppbv 100
26) Hexane	5.67	57	1697502	13.040	ppbv 99
27) Carbon Disulfide	4.52	76	2322278	16.715	ppbv 100
28) Methyl tert-Butyl Ether	5.01	73	2641190	14.416	ppbv 98
29) Chloroform	5.74	83	2691850	13.191	ppbv 96
30) Cyclohexane	7.13	84	1462156	15.706	ppbv 98
31) cis-1,2-Dichloroethene	5.54	61	1727180	14.505	ppbv 97
32) 1,1,1-Trichloroethane	6.51	97	2650472	13.947	ppbv 99
34) 2-Butanone	5.23	43	2422748	13.665	ppbv 100
35) Carbon Tetrachloride	7.02	117	2745841	14.565	ppbv 97
36) Benzene	6.89	78	3363768	14.024	ppbv 97
37) 1,2-Dichloroethane	6.30	62	2102703	13.774	ppbv 100
38) Trichloroethene	7.84	130	1339578	14.252	ppbv 99
39) 1,2-Dichloropropane	7.62	63	1330499	14.218	ppbv 98
40) 1,4-Dioxane	7.83	88	537168	14.182	ppbv 96
41) Tetrahydrofuran	6.04	42	1330794	14.741	ppbv 99
42) Bromodichloromethane	7.80	83	2910105	14.671	ppbv 99
43) Methyl Methacrylate	8.02	69	1606256	15.815	ppbv 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	5728801	13.667	ppbv	99
45) t-1,3-Dichloropropene	9.30	75	1834453	18.500	ppbv	97
46) cis-1,3-Dichloropropene	8.72	75	2105099	17.122	ppbv	97
47) 1,1,2-Trichloroethane	9.49	97	1451567	14.113	ppbv	98
48) Dibromochloromethane	10.33	129	2472116	15.996	ppbv	99
49) Bromoform	13.08	173	2193806	16.655	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	3737127	14.715	ppbv	100
51) 2-Hexanone	10.15	43	3084019	15.566	ppbv	100
52) Tetrachloroethene	11.25	164	1236231	14.530	ppbv	97
53) Toluene	9.83	91	3936224	15.336	ppbv	99
54) 1,2-Dibromoethane	10.64	107	2223564	14.564	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.16	131	1836378	13.808	ppbv	96
57) Chlorobenzene	12.18	112	3023883	12.754	ppbv	98
58) Ethyl Benzene	12.74	91	5282172	14.557	ppbv	96
59) m/p-Xylene	13.02	91	8690335m	27.022	ppbv	
60) o-Xylene	13.73	91	4411720	13.742	ppbv	99
61) Styrene	13.56	104	3242460	16.048	ppbv	99
62) Isopropylbenzene	14.70	105	6434496	13.433	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.71	83	3176002	12.237	ppbv	100
64) n-propylbenzene	15.60	120	1777010	14.520	ppbv	91
65) tert-Butylbenzene	16.79	119	5708827	13.819	ppbv	100
66) Benzyl Chloride	17.03	91	2454289	18.826	ppbv	100
67) sec-Butylbenzene	17.33	105	8051769	13.571	ppbv	98
69) p-Isopropyltoluene	17.69	119	6771856	14.311	ppbv	99
70) n-Butylbenzene	18.59	91	7085608	13.879	ppbv	98
71) 2-Chlorotoluene	15.49	91	5063014	13.974	ppbv	98
72) 4-Ethyltoluene	15.88	105	5235326	14.605	ppbv	99
73) 1,3,5-Trimethylbenzene	16.04	105	4931805	14.504	ppbv	98
74) 1,2,4-Trimethylbenzene	16.80	105	5026810	13.218	ppbv	98
75) 1,3-Dichlorobenzene	17.04	146	2965761	13.102	ppbv	100
76) 1,4-Dichlorobenzene	17.18	146	3003784	13.821	ppbv	99
77) 1,2-Dichlorobenzene	17.86	146	2878880	13.809	ppbv	99
78) Hexachloro-1,3-Butadiene	23.42	225	2042724	11.133	ppbv	99
79) Naphthalene	22.26	128	4490871	13.865	ppbv	98
80) Naphthalene, 2-methyl-	25.01	142	1764373	14.984	ppbv	99
81) 1,2,4-Trichlorobenzene	21.99	180	2456795	13.042	ppbv	99

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

