

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073019\
 Data File : VL034054.D
 Acq On : 30 Jul 2019 6:00
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMdadoda
 8/2/2019 9:37:40 AM

Quant Time: Jul 30 06:41:07 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073019AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 30

QLast Update : Tue Jul 30 05:02:48 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.72	49	1292340	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.25	114	4366231	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.19	117	3535469	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.53	95	2632605	9.07	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	90.70%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.05	85	2357452	8.683	ppbv 98
3) Chlorodifluoromethane	2.99	51	1710641	10.552	ppbv 99
4) Chloromethane	3.14	50	988893	10.374	ppbv 98
5) Vinyl Chloride	3.26	62	1078035	10.168	ppbv 99
6) Bromomethane	3.49	94	767901	11.942	ppbv 93
7) Chloroethane	3.57	64	470679	12.011	ppbv 90
8) Dichlorotetrafluoroethane	3.19	85	2746287	10.183	ppbv 100
9) Propene	3.01	41	666725	11.186	ppbv 99
10) Heptane	8.20	43	2147910	14.917	ppbv 99
11) Trichlorofluoromethane	3.97	101	3368403	10.750	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.52	101	2363312	11.334	ppbv 99
13) Ethanol	3.62	45	166055	8.867	ppbv 99
14) Bromoethene	3.76	108	1047329	12.867	ppbv 99
15) Acetone	3.87	43	2324412	10.278	ppbv 99
16) 1,3-Butadiene	3.34	39	946249	11.566	ppbv 98
17) tert-Butyl alcohol	4.33	59	1925369	11.177	ppbv 100
18) 1,1-Dichloroethene	4.32	96	1122803	12.017	ppbv 96
19) Isopropyl Alcohol	3.99	45	1459377	9.600	ppbv 99
20) Methylene Chloride	4.37	84	967945	10.391	ppbv 97
21) Allyl Chloride	4.44	41	1693901	12.693	ppbv 98
22) trans-1,2-Dichloroethene	4.92	96	1139782	12.806	ppbv 90
23) Vinyl Acetate	5.12	43	2996802	14.091	ppbv 99
24) 1,1-Dichloroethane	5.06	63	2398025	12.592	ppbv 99
25) Ethyl Acetate	5.73	43	4105447	13.982	ppbv 100
26) Hexane	5.74	57	1846153	13.724	ppbv 98
27) Carbon Disulfide	4.58	76	2935336	12.958	ppbv 99
28) Methyl tert-Butyl Ether	5.07	73	2962770	13.051	ppbv 100
29) Chloroform	5.81	83	3194438	12.657	ppbv 99
30) Cyclohexane	7.20	84	2128404	19.321	ppbv 98
31) cis-1,2-Dichloroethene	5.61	61	1907624	14.737	ppbv 95
32) 1,1,1-Trichloroethane	6.58	97	3102796	12.133	ppbv 99
34) 2-Butanone	5.29	43	2417908	11.172	ppbv 100
35) Carbon Tetrachloride	7.09	117	4664972	14.146	ppbv 96
36) Benzene	6.97	78	5167421	16.310	ppbv 100
37) 1,2-Dichloroethane	6.37	62	2471171	10.472	ppbv 99
38) Trichloroethene	7.92	130	2211288	15.328	ppbv 96
39) 1,2-Dichloropropane	7.69	63	1884376	15.738	ppbv 98
40) 1,4-Dioxane	7.91	88	723866	13.258	ppbv # 1
41) Tetrahydrofuran	6.11	42	1320844	12.571	ppbv 100
42) Bromodichloromethane	7.88	83	4795980	15.196	ppbv 97
43) Methyl Methacrylate	8.09	69	1532132	12.777	ppbv 98

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

44) 2,2,4-Trimethylpentane	7.95	57	8372138	15.253	ppbv	99
45) t-1,3-Dichloropropene	9.37	75	2200798	14.185	ppbv	97
46) cis-1,3-Dichloropropene	8.79	75	2439834	13.492	ppbv	99
47) 1,1,2-Trichloroethane	9.57	97	1629766	10.944	ppbv	95
48) Dibromochloromethane	10.40	129	3028844	10.102	ppbv	98
49) Bromoform	13.15	173	2857766	11.761	ppbv	99
50) 4-Methyl-2-Pentanone	8.82	43	3824580	12.008	ppbv	100
51) 2-Hexanone	10.22	43	3131616	11.501	ppbv #	99
52) Tetrachloroethene	11.33	164	1545291	11.092	ppbv	99
53) Toluene	9.90	91	4629882	12.835	ppbv	99
54) 1,2-Dibromoethane	10.71	107	2549064	11.672	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.23	131	2038328	13.108	ppbv	96
57) Chlorobenzene	12.25	112	3595221	12.979	ppbv	98
58) Ethyl Benzene	12.82	91	6420041	15.341	ppbv	98
59) m/p-Xylene	13.10	91	10737742m	28.322	ppbv	
60) o-Xylene	13.80	91	5278110	13.875	ppbv	99
61) Styrene	13.63	104	4060062	16.235	ppbv	99
62) Isopropylbenzene	14.78	105	6941804	12.635	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.79	83	3745558	12.687	ppbv	99
64) n-propylbenzene	15.68	120	1804769	12.700	ppbv	98
65) tert-Butylbenzene	16.86	119	6183615	13.350	ppbv	99
66) Benzyl Chloride	17.11	91	3631014	15.501	ppbv	99
67) sec-Butylbenzene	17.41	105	8840090	13.523	ppbv	99
69) p-Isopropyltoluene	17.77	119	7294886	13.570	ppbv	99
70) n-Butylbenzene	18.67	91	7601666	13.436	ppbv	100
71) 2-Chlorotoluene	15.57	91	5298204	13.242	ppbv	99
72) 4-Ethyltoluene	15.95	105	6081496	13.194	ppbv	98
73) 1,3,5-Trimethylbenzene	16.11	105	5932055	13.955	ppbv	99
74) 1,2,4-Trimethylbenzene	16.88	105	6102831	12.967	ppbv	98
75) 1,3-Dichlorobenzene	17.12	146	3611519	12.028	ppbv	99
76) 1,4-Dichlorobenzene	17.26	146	3627451	12.836	ppbv	100
77) 1,2-Dichlorobenzene	17.94	146	3471205	12.510	ppbv	99
78) Hexachloro-1,3-Butadiene	23.49	225	2782419	11.490	ppbv	98
79) Naphthalene	22.35	128	5957058	15.032	ppbv	97
80) Naphthalene, 2-methyl-	25.07	142	1940750	13.528	ppbv	98
81) 1,2,4-Trichlorobenzene	22.07	180	3523963	13.755	ppbv	100

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

