

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080519\
 Data File : VL034092.D
 Acq On : 5 Aug 2019 16:34
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 8/8/2019 12:41:34 PM

Quant Time: Aug 05 17:01:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 05 2019
 QLast Update : Mon Aug 05 13:52:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.72	49	1012538	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.25	114	2157366	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	2346951	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	1894153	9.13	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.30%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	1384659	7.166	ppbv 99
3) Chlorodifluoromethane	2.98	51	1571839	13.170	ppbv 98
4) Chloromethane	3.14	50	1050352	15.248	ppbv 96
5) Vinyl Chloride	3.26	62	943397	13.833	ppbv 97
6) Bromomethane	3.48	94	498265	9.771	ppbv 96
7) Chloroethane	3.56	64	348642	10.595	ppbv 99
8) Dichlorotetrafluoroethane	3.19	85	1825685	9.663	ppbv 99
9) Propene	3.01	41	936949	20.333	ppbv 98
10) Heptane	8.20	43	2363100	18.519	ppbv 99
11) Trichlorofluoromethane	3.97	101	1940874	10.030	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.51	101	1386931	9.415	ppbv 100
13) Ethanol	3.62	45	176229	9.435	ppbv 97
14) Bromoethene	3.75	108	656309	7.954	ppbv 100
15) Acetone	3.87	43	1731417	10.390	ppbv 98
16) 1,3-Butadiene	3.33	39	966079	15.844	ppbv 100
17) tert-Butyl alcohol	4.32	59	1635504	13.518	ppbv 99
18) 1,1-Dichloroethene	4.32	96	670024	10.389	ppbv 89
19) Isopropyl Alcohol	3.99	45	1324072	12.874	ppbv 92
20) Methylene Chloride	4.37	84	600738	10.008	ppbv 99
21) Allyl Chloride	4.44	41	1379472	13.658	ppbv 98
22) trans-1,2-Dichloroethene	4.92	96	691439	10.521	ppbv 98
23) Vinyl Acetate	5.12	43	3105412	18.084	ppbv 98
24) 1,1-Dichloroethane	5.05	63	1877449	13.019	ppbv 99
25) Ethyl Acetate	5.72	43	3559478	14.438	ppbv 99
26) Hexane	5.74	57	1569323	14.062	ppbv 96
27) Carbon Disulfide	4.58	76	1832163	11.026	ppbv 100
28) Methyl tert-Butyl Ether	5.07	73	2619204	15.636	ppbv 98
29) Chloroform	5.81	83	2182091	11.238	ppbv 100
30) Cyclohexane	7.20	84	1320035	14.832	ppbv 96
31) cis-1,2-Dichloroethene	5.60	61	1630348	14.894	ppbv 100
32) 1,1,1-Trichloroethane	6.57	97	2143025	10.467	ppbv 99
34) 2-Butanone	5.29	43	2560874	20.723	ppbv 98
35) Carbon Tetrachloride	7.09	117	2085828	11.967	ppbv 99
36) Benzene	6.96	78	3073692	14.947	ppbv 99
37) 1,2-Dichloroethane	6.37	62	1768681	13.183	ppbv 100
38) Trichloroethene	7.91	130	1084369	15.609	ppbv 98
39) 1,2-Dichloropropane	7.69	63	1307484	17.576	ppbv 98
40) 1,4-Dioxane	7.90	88	449033	15.751	ppbv # 98
41) Tetrahydrofuran	6.10	42	1634454	24.674	ppbv 99
42) Bromodichloromethane	7.87	83	2424062	14.334	ppbv 96
43) Methyl Methacrylate	8.09	69	1366561	19.265	ppbv 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.95	57	4992151	16.258	ppbv	97
45) t-1,3-Dichloropropene	9.37	75	1823608	20.802	ppbv	100
46) cis-1,3-Dichloropropene	8.79	75	2013921	19.791	ppbv	100
47) 1,1,2-Trichloroethane	9.57	97	1267436	15.824	ppbv	98
48) Dibromochloromethane	10.40	129	2007763	14.814	ppbv	100
49) Bromoform	13.15	173	1831011	15.596	ppbv	100
50) 4-Methyl-2-Pentanone	8.82	43	3730450	20.326	ppbv	98
51) 2-Hexanone	10.22	43	3313152	23.415	ppbv #	100
52) Tetrachloroethene	11.32	164	1097291	18.287	ppbv	95
53) Toluene	9.89	91	3520645	17.227	ppbv	100
54) 1,2-Dibromoethane	10.71	107	1895011	15.943	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.23	131	1322641	12.785	ppbv	89
57) Chlorobenzene	12.25	112	2500787	13.049	ppbv	97
58) Ethyl Benzene	12.81	91	4567069	14.744	ppbv	94
59) m/p-Xylene	13.10	91	7142179m	25.804	ppbv	
60) o-Xylene	13.80	91	3625434	13.036	ppbv	99
61) Styrene	13.63	104	3066532	16.847	ppbv	98
62) Isopropylbenzene	14.77	105	4777201	13.085	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.79	83	2565961	11.722	ppbv	99
64) n-propylbenzene	15.67	120	1349509	14.617	ppbv	93
65) tert-Butylbenzene	16.86	119	4156570	12.682	ppbv	98
66) Benzyl Chloride	17.10	91	2764736	17.251	ppbv	100
67) sec-Butylbenzene	17.41	105	5653228	12.039	ppbv	98
69) p-Isopropyltoluene	17.76	119	4775836	12.487	ppbv	97
70) n-Butylbenzene	18.66	91	5107593	12.241	ppbv	98
71) 2-Chlorotoluene	15.56	91	3897509	14.422	ppbv	98
72) 4-Ethyltoluene	15.95	105	4278287	13.726	ppbv	97
73) 1,3,5-Trimethylbenzene	16.11	105	4063567	13.241	ppbv	96
74) 1,2,4-Trimethylbenzene	16.88	105	4043639	11.907	ppbv	96
75) 1,3-Dichlorobenzene	17.11	146	2420834	12.040	ppbv	99
76) 1,4-Dichlorobenzene	17.26	146	2477123	13.047	ppbv	99
77) 1,2-Dichlorobenzene	17.94	146	2400824	12.714	ppbv	98
78) Hexachloro-1,3-Butadiene	23.49	225	2075330	11.979	ppbv	100
79) Naphthalene	22.34	128	4357822	14.333	ppbv	97
80) Naphthalene, 2-methyl-	25.07	142	2381836	20.413	ppbv	97
81) 1,2,4-Trichlorobenzene	22.07	180	2404552	12.787	ppbv	100

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

