

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080519\
 Data File : VL034087.D
 Acq On : 5 Aug 2019 13:24
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 8/8/2019 12:41:10 PM

Quant Time: Aug 05 13:58:49 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	5.71	49	1128257	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.24	114	2265724	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	2452413	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.52	95	1909440	8.81	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	88.10%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	260740	1.211 ppbv	99
3) Chlorodifluoromethane	2.99	51	273721	2.058 ppbv	98
4) Chloromethane	3.14	50	173628	2.262 ppbv	94
5) Vinyl Chloride	3.26	62	152285	2.004 ppbv	98
6) Bromomethane	3.48	94	74589	1.313 ppbv	99
7) Chloroethane	3.57	64	54622	1.490 ppbv	94
8) Dichlorotetrafluoroethane	3.19	85	334411	1.589 ppbv	95
9) Propene	3.01	41	159594	3.108 ppbv	95
10) Heptane	8.20	43	416466	2.929 ppbv	100
11) Trichlorofluoromethane	3.97	101	335968	1.558 ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.51	101	236589	1.441 ppbv	99
13) Ethanol	3.62	45	50720	2.437 ppbv	97
14) Bromoethene	3.75	108	105548	1.148 ppbv	96
15) Acetone	3.87	43	351650	1.894 ppbv	100
16) 1,3-Butadiene	3.33	39	156470	2.303 ppbv	100
17) tert-Butyl alcohol	4.32	59	306945	2.277 ppbv	99
18) 1,1-Dichloroethene	4.31	96	108560	1.511 ppbv	94
19) Isopropyl Alcohol	3.99	45	254867	2.224 ppbv	92
20) Methylene Chloride	4.37	84	94624	1.415 ppbv	92
21) Allyl Chloride	4.44	41	223492	1.986 ppbv	99
22) trans-1,2-Dichloroethene	4.92	96	104037	1.421 ppbv	96
23) Vinyl Acetate	5.11	43	568253	2.970 ppbv #	96
24) 1,1-Dichloroethane	5.05	63	325738	2.027 ppbv	98
25) Ethyl Acetate	5.72	43	669060	2.436 ppbv	98
26) Hexane	5.73	57	279152	2.245 ppbv	98
27) Carbon Disulfide	4.58	76	291726	1.576 ppbv	99
28) Methyl tert-Butyl Ether	5.07	73	466504	2.499 ppbv	99
29) Chloroform	5.80	83	380681	1.760 ppbv	95
30) Cyclohexane	7.19	84	217597	2.194 ppbv	90
31) cis-1,2-Dichloroethene	5.59	61	277926	2.279 ppbv	94
32) 1,1,1-Trichloroethane	6.57	97	366229	1.605 ppbv	99
34) 2-Butanone	5.29	43	450944	3.475 ppbv	100
35) Carbon Tetrachloride	7.08	117	362513	1.980 ppbv	97
36) Benzene	6.95	78	550391	2.548 ppbv	94
37) 1,2-Dichloroethane	6.36	62	283340	2.011 ppbv	98
38) Trichloroethene	7.91	130	197723	2.710 ppbv	94
39) 1,2-Dichloropropane	7.68	63	215606	2.760 ppbv	94
40) 1,4-Dioxane	7.91	88	79222	2.646 ppbv #	1
41) Tetrahydrofuran	6.10	42	276183	3.970 ppbv	99
42) Bromodichloromethane	7.86	83	424229	2.389 ppbv	95
43) Methyl Methacrylate	8.08	69	226074m	3.035 ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.94	57	1013036	3.141	ppbv	96
45) t-1,3-Dichloropropene	9.36	75	284594	3.091	ppbv	98
46) cis-1,3-Dichloropropene	8.78	75	329169	3.080	ppbv	97
47) 1,1,2-Trichloroethane	9.56	97	213471	2.538	ppbv	94
48) Dibromochloromethane	10.40	129	348109	2.446	ppbv	97
49) Bromoform	13.14	173	310638	2.519	ppbv	100
50) 4-Methyl-2-Pentanone	8.82	43	694386	3.603	ppbv	98
51) 2-Hexanone	10.22	43	583063	3.924	ppbv #	99
52) Tetrachloroethene	11.32	164	194468	3.086	ppbv	94
53) Toluene	9.89	91	652308	3.039	ppbv	97
54) 1,2-Dibromoethane	10.70	107	317693	2.545	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.23	131	237745	2.199	ppbv #	1
57) Chlorobenzene	12.25	112	470917	2.351	ppbv #	95
58) Ethyl Benzene	12.80	91	876357	2.707	ppbv	100
59) m/p-Xylene	13.06	91	1439980m	4.979	ppbv	
60) o-Xylene	13.79	91	708426	2.438	ppbv	98
61) Styrene	13.62	104	559156	2.940	ppbv	99
62) Isopropylbenzene	14.77	105	964403	2.528	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.78	83	503704	2.202	ppbv	100
64) n-propylbenzene	15.66	120	245845m	2.548	ppbv	
65) tert-Butylbenzene	16.85	119	871554	2.545	ppbv	99
66) Benzyl Chloride	17.10	91	489174	2.921	ppbv	99
67) sec-Butylbenzene	17.40	105	1245843	2.539	ppbv	95
69) p-Isopropyltoluene	17.76	119	1007907	2.522	ppbv	98
70) n-Butylbenzene	18.65	91	1097727	2.518	ppbv	97
71) 2-Chlorotoluene	15.56	91	770053	2.727	ppbv	97
72) 4-Ethyltoluene	15.94	105	857943	2.634	ppbv	98
73) 1,3,5-Trimethylbenzene	16.10	105	821975	2.563	ppbv	94
74) 1,2,4-Trimethylbenzene	16.86	105	858104	2.418	ppbv	92
75) 1,3-Dichlorobenzene	17.11	146	467193	2.224	ppbv	99
76) 1,4-Dichlorobenzene	17.25	146	481936	2.429	ppbv	99
77) 1,2-Dichlorobenzene	17.93	146	475208m	2.408	ppbv	
78) Hexachloro-1,3-Butadiene	23.49	225	364475	2.013	ppbv	98
79) Naphthalene	22.33	128	913201	2.874	ppbv	97
80) Naphthalene, 2-methyl-	25.07	142	251384	2.062	ppbv	98
81) 1,2,4-Trichlorobenzene	22.06	180	494201	2.515	ppbv	99

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

