

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080519\
 Data File : VL034089.D
 Acq On : 5 Aug 2019 14:39
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 8/8/2019 12:41:20 PM

Quant Time: Aug 05 17:11:44 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	1080913	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.24	114	2194260	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	2253513	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.52	95	1855485	9.32	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.20%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	87625	0.425 ppbv	90
3) Chlorodifluoromethane	2.98	51	68657	0.539 ppbv	98
4) Chloromethane	3.14	50	41538	0.565 ppbv	98
5) Vinyl Chloride	3.26	62	37361	0.513 ppbv	94
6) Bromomethane	3.49	94	19282	0.354 ppbv	99
7) Chloroethane	3.57	64	14966	0.426 ppbv #	71
8) Dichlorotetrafluoroethane	3.19	85	84848	0.421 ppbv	92
9) Propene	3.01	41	40125	0.816 ppbv	100
10) Heptane	8.19	43	101600	0.746 ppbv	98
11) Trichlorofluoromethane	3.97	101	88654m	0.429 ppbv	
12) 1,1,2-Trichlorotrifluoroet	4.51	101	60925	0.387 ppbv	95
13) Ethanol	3.62	45	14564	0.730 ppbv	96
14) Bromoethene	3.75	108	25793	0.293 ppbv	97
15) Acetone	3.87	43	91046	0.512 ppbv	97
16) 1,3-Butadiene	3.34	39	40397	0.621 ppbv	98
17) tert-Butyl alcohol	4.34	59	81188	0.629 ppbv #	93
18) 1,1-Dichloroethene	4.31	96	29412m	0.427 ppbv	
19) Isopropyl Alcohol	4.00	45	72461m	0.660 ppbv	
20) Methylene Chloride	4.37	84	26114	0.408 ppbv	85
21) Allyl Chloride	4.44	41	57796	0.536 ppbv	99
22) trans-1,2-Dichloroethene	4.92	96	28352	0.404 ppbv	99
23) Vinyl Acetate	5.11	43	139065	0.759 ppbv #	94
24) 1,1-Dichloroethane	5.05	63	84165	0.547 ppbv	99
25) Ethyl Acetate	5.73	43	169394	0.644 ppbv	99
26) Hexane	5.73	57	72162	0.606 ppbv	95
27) Carbon Disulfide	4.58	76	69109	0.390 ppbv #	92
28) Methyl tert-Butyl Ether	5.08	73	119180	0.666 ppbv	99
29) Chloroform	5.80	83	92980	0.449 ppbv	95
30) Cyclohexane	7.19	84	54931m	0.578 ppbv	
31) cis-1,2-Dichloroethene	5.59	61	67118	0.574 ppbv	93
32) 1,1,1-Trichloroethane	6.57	97	87093	0.398 ppbv	97
34) 2-Butanone	5.29	43	110474	0.879 ppbv	100
35) Carbon Tetrachloride	7.08	117	83230	0.469 ppbv	97
36) Benzene	6.95	78	142359	0.681 ppbv #	92
37) 1,2-Dichloroethane	6.36	62	73030	0.535 ppbv #	96
38) Trichloroethene	7.90	130	47695	0.675 ppbv	95
39) 1,2-Dichloropropane	7.68	63	53615m	0.709 ppbv	
40) 1,4-Dioxane	7.94	88	20992m	0.724 ppbv	
41) Tetrahydrofuran	6.12	42	69343m	1.029 ppbv	
42) Bromodichloromethane	7.86	83	98122	0.570 ppbv #	98
43) Methyl Methacrylate	8.09	69	55134	0.764 ppbv	97

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

44) 2,2,4-Trimethylpentane	7.93	57	260715m	0.835	ppbv	
45) t-1,3-Dichloropropene	9.35	75	66286m	0.743	ppbv	
46) cis-1,3-Dichloropropene	8.78	75	77495	0.749	ppbv #	92
47) 1,1,2-Trichloroethane	9.55	97	50180	0.616	ppbv	95
48) Dibromochloromethane	10.39	129	80413	0.583	ppbv	99
49) Bromoform	13.14	173	68767	0.576	ppbv	98
50) 4-Methyl-2-Pentanone	8.83	43	174196	0.933	ppbv	94
51) 2-Hexanone	10.24	43	146498m	1.018	ppbv	
52) Tetrachloroethene	11.31	164	49636m	0.813	ppbv	
53) Toluene	9.89	91	157375	0.757	ppbv	100
54) 1,2-Dibromoethane	10.70	107	78514	0.649	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.22	131	56867	0.572	ppbv #	1
57) Chlorobenzene	12.24	112	119530	0.650	ppbv	97
58) Ethyl Benzene	12.80	91	223667	0.752	ppbv	91
59) m/p-Xylene	13.06	91	363508m	1.368	ppbv	
60) o-Xylene	13.79	91	179952	0.674	ppbv	100
61) Styrene	13.62	104	139512	0.798	ppbv	97
62) Isopropylbenzene	14.76	105	241662	0.689	ppbv	95
63) 1,1,2,2-Tetrachloroethane	13.78	83	127673m	0.607	ppbv	
64) n-propylbenzene	15.67	120	61788m	0.697	ppbv	
65) tert-Butylbenzene	16.84	119	219155m	0.696	ppbv	
66) Benzyl Chloride	17.09	91	96080m	0.624	ppbv	
67) sec-Butylbenzene	17.40	105	309346	0.686	ppbv	95
69) p-Isopropyltoluene	17.76	119	259182	0.706	ppbv	95
70) n-Butylbenzene	18.65	91	277041m	0.691	ppbv	
71) 2-Chlorotoluene	15.55	91	195160	0.752	ppbv	97
72) 4-Ethyltoluene	15.94	105	205023	0.685	ppbv	97
73) 1,3,5-Trimethylbenzene	16.09	105	196383	0.666	ppbv	87
74) 1,2,4-Trimethylbenzene	16.86	105	217361	0.667	ppbv	95
75) 1,3-Dichlorobenzene	17.10	146	119436m	0.619	ppbv	
76) 1,4-Dichlorobenzene	17.25	146	118731	0.651	ppbv	97
77) 1,2-Dichlorobenzene	17.93	146	115092	0.635	ppbv	98
78) Hexachloro-1,3-Butadiene	23.49	225	93112m	0.560	ppbv	
79) Naphthalene	22.34	128	215284m	0.737	ppbv	
80) Naphthalene, 2-methyl-	25.07	142	56296	0.502	ppbv	95
81) 1,2,4-Trichlorobenzene	22.06	180	124443m	0.689	ppbv	

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

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