

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092418\
 Data File : VL032515.D
 Acq On : 24 Sep 2018 17:07
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

apatel
 9/26/2018 4:47:04 PM

Quant Time: Sep 24 18:37:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Sep 24 18:37:32 2018
 QLast Update : Mon Sep 24 18:32:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1649593	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	3658464	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	3739238	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.61	95	2757695	9.93	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.09	85	283360	1.343	ppbv	96
3) Chlorodifluoromethane	3.03	51	277845	1.861	ppbv	99
4) Chloromethane	3.19	50	159104	1.760	ppbv	96
5) Vinyl Chloride	3.31	62	148634	1.666	ppbv	100
6) Bromomethane	3.53	94	88119	1.881	ppbv	100
7) Chloroethane	3.62	64	59514	1.927	ppbv	94
8) Dichlorotetrafluoroethane	3.24	85	337787	1.804	ppbv	100
9) Propene	3.05	41	121763	2.021	ppbv	97
10) Heptane	8.28	43	457632	2.118	ppbv	98
11) Trichlorofluoromethane	4.03	101	363164	1.909	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.58	101	303091	2.351	ppbv	99
13) Ethanol	3.67	45	34895	1.858	ppbv	97
14) Bromoethene	3.81	108	104430	1.912	ppbv	98
15) Acetone	3.93	43	293288	1.974	ppbv	99
16) 1,3-Butadiene	3.38	39	107055	1.532	ppbv	90
17) tert-Butyl alcohol	4.39	59	33322m	1.458	ppbv	
18) 1,1-Dichloroethene	4.37	96	138631	2.353	ppbv	91
19) Isopropyl Alcohol	4.05	45	200205	2.054	ppbv #	98
20) Methylene Chloride	4.44	84	139322	2.460	ppbv	97
21) Allyl Chloride	4.50	41	241044	2.443	ppbv	97
22) trans-1,2-Dichloroethene	4.98	96	134614	2.105	ppbv	99
23) Vinyl Acetate	5.18	43	532326	2.162	ppbv	99
24) 1,1-Dichloroethane	5.12	63	440198	2.170	ppbv	99
25) Ethyl Acetate	5.80	43	752991	2.146	ppbv	99
26) Hexane	5.80	57	338595	2.156	ppbv	95
27) Carbon Disulfide	4.65	76	340909	2.351	ppbv #	94
28) Methyl tert-Butyl Ether	5.14	73	421496	2.186	ppbv	99
29) Chloroform	5.87	83	493118	2.059	ppbv	94
30) Cyclohexane	7.27	84	269102	2.340	ppbv	87
31) cis-1,2-Dichloroethene	5.66	61	319212	2.244	ppbv	97
32) 1,1,1-Trichloroethane	6.64	97	507779	2.275	ppbv	99
34) 2-Butanone	5.35	43	470207	1.935	ppbv	98
35) Carbon Tetrachloride	7.16	117	472081	1.920	ppbv	97
36) Benzene	7.03	78	631273	2.028	ppbv	99
37) 1,2-Dichloroethane	6.44	62	379837	1.991	ppbv	99
38) Trichloroethene	7.99	130	253599	2.144	ppbv	98
39) 1,2-Dichloropropane	7.76	63	288622	2.167	ppbv	98
40) 1,4-Dioxane	8.00	88	90306m	2.260	ppbv	
41) Tetrahydrofuran	6.18	42	265573	2.007	ppbv	99
42) Bromodichloromethane	7.95	83	566875	2.154	ppbv	97
43) Methyl Methacrylate	8.16	69	266801	2.020	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.02	57	1311284	2.179	ppbv	99
45) t-1,3-Dichloropropene	9.45	75	315553	2.233	ppbv	97
46) cis-1,3-Dichloropropene	8.87	75	387578	2.146	ppbv	95
47) 1,1,2-Trichloroethane	9.64	97	312820	2.209	ppbv	96
48) Dibromochloromethane	10.48	129	497124	2.534	ppbv	100
49) Bromoform	13.23	173	381873	2.240	ppbv	99
50) 4-Methyl-2-Pentanone	8.91	43	777207	2.123	ppbv	100
51) 2-Hexanone	10.31	43	645811	2.739	ppbv #	100
52) Tetrachloroethene	11.40	164	216856	2.246	ppbv	98
53) Toluene	9.97	91	801423	2.463	ppbv	99
54) 1,2-Dibromoethane	10.79	107	451853	2.376	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.31	131	349422	2.073	ppbv #	1
57) Chlorobenzene	12.33	112	640655	2.144	ppbv	99
58) Ethyl Benzene	12.89	91	1012303	2.262	ppbv	97
59) m/p-Xylene	13.17	91	1790997m	4.489	ppbv	
60) o-Xylene	13.88	91	882843	2.253	ppbv	99
61) Styrene	13.71	104	579687	2.285	ppbv	98
62) Isopropylbenzene	14.86	105	1230538	2.234	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.87	83	715633	2.042	ppbv	100
64) n-propylbenzene	15.75	120	317120	2.202	ppbv	89
65) tert-Butylbenzene	16.94	119	1093109	2.303	ppbv	97
66) Benzyl Chloride	17.18	91	599555	2.267	ppbv	99
67) sec-Butylbenzene	17.49	105	1598142	2.239	ppbv	99
69) p-Isopropyltoluene	17.85	119	1262285	2.281	ppbv	99
70) n-Butylbenzene	18.75	91	1388173	2.213	ppbv	97
71) 2-Chlorotoluene	15.65	91	954193	2.267	ppbv	99
72) 4-Ethyltoluene	16.03	105	962034	2.249	ppbv	99
73) 1,3,5-Trimethylbenzene	16.19	105	926704	2.162	ppbv	93
74) 1,2,4-Trimethylbenzene	16.96	105	1007802	2.151	ppbv	99
75) 1,3-Dichlorobenzene	17.19	146	590858	2.125	ppbv	98
76) 1,4-Dichlorobenzene	17.34	146	550576	2.134	ppbv	99
77) 1,2-Dichlorobenzene	18.02	146	565003	2.106	ppbv	99
78) Hexachloro-1,3-Butadiene	23.57	225	210650	2.101	ppbv	99
79) Naphthalene	22.45	128	693130	1.819	ppbv	97
80) Naphthalene, 2-methyl-	25.14	142	70594	0.696	ppbv	97
81) 1,2,4-Trichlorobenzene	22.17	180	350973	1.829	ppbv	100

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

