

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073019\
 Data File : VL034050.D
 Acq On : 30 Jul 2019 3:26
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMdadoda
 8/2/2019 9:37:35 AM

Quant Time: Jul 30 05:21:50 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	1211879	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.24	114	4333172	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	3211609	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	2521751	9.57	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.70%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.05	85	256529	1.008	ppbv	99
3) Chlorodifluoromethane	2.99	51	149658	0.984	ppbv	100
4) Chloromethane	3.14	50	85150	0.953	ppbv	99
5) Vinyl Chloride	3.26	62	89235	0.898	ppbv	93
6) Bromomethane	3.49	94	55402	0.919	ppbv	92
7) Chloroethane	3.57	64	35864	0.976	ppbv	91
8) Dichlorotetrafluoroethane	3.19	85	240233	0.950	ppbv	96
9) Propene	3.01	41	47135	0.843	ppbv	89
10) Heptane	8.20	43	140951	1.044	ppbv	97
11) Trichlorofluoromethane	3.97	101	249528	0.849	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.52	101	174500	0.892	ppbv	98
13) Ethanol	3.62	45	22479	1.280	ppbv	99
14) Bromoethene	3.76	108	71039	0.931	ppbv	95
15) Acetone	3.88	43	190570	0.899	ppbv	99
16) 1,3-Butadiene	3.34	39	70004m	0.912	ppbv	
17) tert-Butyl alcohol	4.33	59	160138	0.991	ppbv	98
18) 1,1-Dichloroethene	4.31	96	80392	0.918	ppbv	90
19) Isopropyl Alcohol	4.00	45	130611	0.916	ppbv #	95
20) Methylene Chloride	4.37	84	74243	0.850	ppbv #	82
21) Allyl Chloride	4.44	41	118407	0.946	ppbv	97
22) trans-1,2-Dichloroethene	4.92	96	79370	0.951	ppbv	87
23) Vinyl Acetate	5.12	43	205512	1.030	ppbv #	95
24) 1,1-Dichloroethane	5.05	63	186634	1.045	ppbv	96
25) Ethyl Acetate	5.73	43	281643	1.023	ppbv	99
26) Hexane	5.74	57	127771	1.013	ppbv	94
27) Carbon Disulfide	4.58	76	184043	0.866	ppbv #	92
28) Methyl tert-Butyl Ether	5.08	73	213191	1.001	ppbv	99
29) Chloroform	5.80	83	245483	1.037	ppbv	94
30) Cyclohexane	7.20	84	133455m	1.292	ppbv	
31) cis-1,2-Dichloroethene	5.60	61	120059	0.989	ppbv	99
32) 1,1,1-Trichloroethane	6.57	97	240062	1.001	ppbv	97
34) 2-Butanone	5.29	43	169576	0.790	ppbv	99
35) Carbon Tetrachloride	7.08	117	262740	0.803	ppbv	98
36) Benzene	6.95	78	266670	0.848	ppbv	94
37) 1,2-Dichloroethane	6.37	62	197206	0.842	ppbv #	97
38) Trichloroethene	7.91	130	106545m	0.744	ppbv	
39) 1,2-Dichloropropane	7.68	63	94945m	0.799	ppbv	
40) 1,4-Dioxane	7.93	88	44359m	0.819	ppbv	
41) Tetrahydrofuran	6.12	42	85120	0.816	ppbv	96
42) Bromodichloromethane	7.87	83	247292	0.790	ppbv #	97
43) Methyl Methacrylate	8.09	69	94795	0.797	ppbv	98

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

44) 2,2,4-Trimethylpentane	7.94	57	434511	0.798	ppbv	98
45) t-1,3-Dichloropropene	9.36	75	114966	0.747	ppbv	100
46) cis-1,3-Dichloropropene	8.79	75	126921	0.707	ppbv	95
47) 1,1,2-Trichloroethane	9.57	97	121767m	0.824	ppbv	
48) Dibromochloromethane	10.39	129	201662m	0.678	ppbv	
49) Bromoform	13.14	173	185516	0.769	ppbv	97
50) 4-Methyl-2-Pentanone	8.83	43	248191m	0.785	ppbv	
51) 2-Hexanone	10.23	43	188643	0.698	ppbv #	97
52) Tetrachloroethene	11.32	164	105198m	0.761	ppbv	
53) Toluene	9.90	91	266264m	0.744	ppbv	
54) 1,2-Dibromoethane	10.70	107	168906m	0.779	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.22	131	155216	1.099	ppbv #	1
57) Chlorobenzene	12.24	112	272673m	1.084	ppbv	
58) Ethyl Benzene	12.81	91	369825	0.973	ppbv	97
59) m/p-Xylene	13.09	91	738416m	2.144	ppbv	
60) o-Xylene	13.79	91	366253	1.060	ppbv	98
61) Styrene	13.63	104	218785	0.963	ppbv	99
62) Isopropylbenzene	14.77	105	471837	0.945	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.78	83	274422	1.023	ppbv	98
64) n-propylbenzene	15.66	120	129669m	1.005	ppbv	
65) tert-Butylbenzene	16.85	119	456210	1.084	ppbv	96
66) Benzyl Chloride	17.10	91	202867	0.953	ppbv	98
67) sec-Butylbenzene	17.40	105	654623	1.102	ppbv	99
69) p-Isopropyltoluene	17.76	119	525447	1.076	ppbv	98
70) n-Butylbenzene	18.65	91	558329m	1.086	ppbv	
71) 2-Chlorotoluene	15.56	91	342521	0.942	ppbv	98
72) 4-Ethyltoluene	15.95	105	401563	0.959	ppbv	97
73) 1,3,5-Trimethylbenzene	16.10	105	416072	1.078	ppbv	98
74) 1,2,4-Trimethylbenzene	16.87	105	477907	1.118	ppbv #	89
75) 1,3-Dichlorobenzene	17.11	146	299661m	1.099	ppbv	
76) 1,4-Dichlorobenzene	17.25	146	279929	1.090	ppbv	98
77) 1,2-Dichlorobenzene	17.93	146	280337	1.112	ppbv	97
78) Hexachloro-1,3-Butadiene	23.49	225	268213	1.219	ppbv	99
79) Naphthalene	22.35	128	398028m	1.106	ppbv	
80) Naphthalene, 2-methyl-	25.07	142	135067	1.036	ppbv	96
81) 1,2,4-Trichlorobenzene	22.06	180	264985m	1.139	ppbv	

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

