

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL013020\
 Data File : VL034570.D
 Acq On : 30 Jan 2020 13:23
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 1/31/2020 4:23:55 PM

Quant Time: Jan 30 14:52:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30 14:52:35 2020
 QLast Update : Thu Jan 30 14:46:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1145621	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2377645	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2353231	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	2026639	10.32	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	292453	1.619	ppbv	91
3) Chlorodifluoromethane	2.95	51	151051	1.107	ppbv	97
4) Chloromethane	3.10	50	94728	1.168	ppbv	93
5) Vinyl Chloride	3.22	62	80452	1.013	ppbv	90
6) Bromomethane	3.44	94	44654	1.130	ppbv	81
7) Chloroethane	3.53	64	32010	1.157	ppbv	98
8) Dichlorotetrafluoroethane	3.15	85	224605	1.240	ppbv	95
9) Propene	2.97	41	57866	1.100	ppbv	97
10) Heptane	8.13	43	143086	1.053	ppbv	96
11) Trichlorofluoromethane	3.92	101	255299	1.221	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.46	101	159280	1.198	ppbv	95
13) Ethanol	3.57	45	15921m	1.090	ppbv	
14) Bromoethene	3.71	108	62288	1.158	ppbv	97
15) Acetone	3.83	43	185476	1.109	ppbv	95
16) 1,3-Butadiene	3.29	39	71360	1.110	ppbv	94
17) tert-Butyl alcohol	4.28	59	143564	1.072	ppbv	98
18) 1,1-Dichloroethene	4.26	96	66946	1.156	ppbv	93
19) Isopropyl Alcohol	3.94	45	107877	0.997	ppbv #	95
20) Methylene Chloride	4.32	84	72106	1.096	ppbv	90
21) Allyl Chloride	4.39	41	111135	1.157	ppbv	98
22) trans-1,2-Dichloroethene	4.87	96	72423	1.229	ppbv	93
23) Vinyl Acetate	5.06	43	192694	0.998	ppbv #	98
24) 1,1-Dichloroethane	4.99	63	174746	1.127	ppbv	99
25) Ethyl Acetate	5.67	43	296788	1.137	ppbv	98
26) Hexane	5.67	57	122469	1.113	ppbv	94
27) Carbon Disulfide	4.53	76	158273	1.138	ppbv	97
28) Methyl tert-Butyl Ether	5.02	73	217496	1.184	ppbv	98
29) Chloroform	5.74	83	222354	1.168	ppbv	98
30) Cyclohexane	7.13	84	86579	1.059	ppbv	96
31) cis-1,2-Dichloroethene	5.54	61	127261	1.135	ppbv	93
32) 1,1,1-Trichloroethane	6.51	97	221506	1.121	ppbv	98
34) 2-Butanone	5.24	43	185989	1.095	ppbv	97
35) Carbon Tetrachloride	7.02	117	231176	1.072	ppbv	97
36) Benzene	6.89	78	219411	1.059	ppbv	96
37) 1,2-Dichloroethane	6.30	62	187235	1.112	ppbv	99
38) Trichloroethene	7.84	130	94976	1.134	ppbv	89
39) 1,2-Dichloropropane	7.62	63	92747	1.088	ppbv	95
40) 1,4-Dioxane	7.86	88	37140m	1.077	ppbv	
41) Tetrahydrofuran	6.06	42	95158m	1.092	ppbv	
42) Bromodichloromethane	7.80	83	226882	1.096	ppbv #	94
43) Methyl Methacrylate	8.02	69	82595	0.977	ppbv	96

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44) 2,2,4-Trimethylpentane	7.88	57	410625m	1.071	ppbv	
45) t-1,3-Dichloropropene	9.29	75	99931	0.918	ppbv	98
46) cis-1,3-Dichloropropene	8.72	75	117914	0.947	ppbv	98
47) 1,1,2-Trichloroethane	9.49	97	99952m	1.064	ppbv	
48) Dibromochloromethane	10.32	129	176168m	1.082	ppbv	
49) Bromoform	13.07	173	148486	1.007	ppbv	99
50) 4-Methyl-2-Pentanone	8.76	43	256136m	1.038	ppbv	
51) 2-Hexanone	10.16	43	192557	0.967	ppbv #	96
52) Tetrachloroethene	11.25	164	82975	1.026	ppbv	91
53) Toluene	9.83	91	233499	1.025	ppbv	96
54) 1,2-Dibromoethane	10.64	107	150591m	1.102	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.15	131	126872	1.117	ppbv #	1
57) Chlorobenzene	12.17	112	208981	1.076	ppbv #	93
58) Ethyl Benzene	12.74	91	341351	1.076	ppbv	92
59) m/p-Xylene	13.02	91	612817m	2.208	ppbv	
60) o-Xylene	13.72	91	301427	1.082	ppbv	97
61) Styrene	13.56	104	190709	1.002	ppbv	98
62) Isopropylbenzene	14.70	105	396067	1.087	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.71	83	225589	1.010	ppbv	98
64) n-propylbenzene	15.59	120	101562	1.092	ppbv	89
65) tert-Butylbenzene	16.78	119	354763	1.078	ppbv	94
66) Benzyl Chloride	17.03	91	132604m	0.919	ppbv	
67) sec-Butylbenzene	17.33	105	495612	1.072	ppbv	99
69) p-Isopropyltoluene	17.69	119	402467	1.074	ppbv	99
70) n-Butylbenzene	18.59	91	432808	1.070	ppbv	96
71) 2-Chlorotoluene	15.48	91	296678	1.049	ppbv	98
72) 4-Ethyltoluene	15.87	105	324509	1.041	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	320208	1.047	ppbv	92
74) 1,2,4-Trimethylbenzene	16.80	105	368551	1.127	ppbv #	88
75) 1,3-Dichlorobenzene	17.03	146	213676	1.091	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	210337m	1.115	ppbv	
77) 1,2-Dichlorobenzene	17.86	146	205576	1.117	ppbv	98
78) Hexachloro-1,3-Butadiene	23.43	225	203573m	1.165	ppbv	
79) Naphthalene	22.26	128	285920m	1.161	ppbv	
80) Naphthalene, 2-methyl-	25.02	142	90477	1.326	ppbv #	94
81) 1,2,4-Trichlorobenzene	22.00	180	173807	1.084	ppbv	97

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

