

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120720\
 Data File : VL036065.D
 Acq On : 7 Dec 2020 13:09
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 12/10/2020 9:53:10 AM

Quant Time: Dec 07 13:45:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 07 2020
 QLast Update : Mon Dec 07 13:39:30 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1313591	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	3004411	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2847197	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	2167067	9.96	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	274385	1.200	ppbv	89
3) Chlorodifluoromethane	3.00	51	294061	1.898	ppbv	100
4) Chloromethane	3.15	50	145701	1.921	ppbv	92
5) Vinyl Chloride	3.27	62	144224	1.497	ppbv	96
6) Bromomethane	3.48	94	81859m	1.080	ppbv	
7) Chloroethane	3.56	64	57087m	1.650	ppbv	
8) Dichlorotetrafluoroethane	3.20	85	336855	1.249	ppbv	99
9) Propene	3.02	41	146585	2.709	ppbv	94
10) Heptane	8.14	43	368099	2.493	ppbv	98
11) Trichlorofluoromethane	3.96	101	353178	1.140	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.50	101	245172m	1.051	ppbv	
13) Ethanol	3.62	45	22206	2.029	ppbv	94
14) Bromoethene	3.75	108	101298m	1.072	ppbv	
15) Acetone	3.87	43	330657	2.423	ppbv #	87
16) 1,3-Butadiene	3.33	39	144229	2.405	ppbv	94
17) tert-Butyl alcohol	4.31	59	272841m	1.824	ppbv	
18) 1,1-Dichloroethene	4.30	96	109088m	1.055	ppbv	
19) Isopropyl Alcohol	3.98	45	178233m	2.434	ppbv	
20) Methylene Chloride	4.36	84	132405	1.121	ppbv	97
21) Allyl Chloride	4.43	41	194848	2.679	ppbv	95
22) trans-1,2-Dichloroethene	4.90	96	112519m	1.096	ppbv	
23) Vinyl Acetate	5.09	43	428976	2.662	ppbv #	97
24) 1,1-Dichloroethane	5.02	63	290382	1.577	ppbv	98
25) Ethyl Acetate	5.70	43	628806	2.291	ppbv	99
26) Hexane	5.70	57	298321m	2.047	ppbv	
27) Carbon Disulfide	4.56	76	285666m	1.346	ppbv	
28) Methyl tert-Butyl Ether	5.05	73	406723m	1.872	ppbv	
29) Chloroform	5.77	83	369221	1.341	ppbv	93
30) Cyclohexane	7.15	84	205075	1.491	ppbv	84
31) cis-1,2-Dichloroethene	5.56	61	244093	1.830	ppbv	99
32) 1,1,1-Trichloroethane	6.53	97	380685m	1.508	ppbv	
34) 2-Butanone	5.26	43	403734m	3.921	ppbv	
35) Carbon Tetrachloride	7.03	117	352995	2.247	ppbv	98
36) Benzene	6.91	78	496272	2.415	ppbv	97
37) 1,2-Dichloroethane	6.32	62	292381	2.743	ppbv	99
38) Trichloroethene	7.86	130	184337	2.005	ppbv	97
39) 1,2-Dichloropropane	7.63	63	202419m	2.571	ppbv	
40) 1,4-Dioxane	7.87	88	60320m	2.298	ppbv	
41) Tetrahydrofuran	6.08	42	237910m	4.425	ppbv	
42) Bromodichloromethane	7.81	83	395010	2.343	ppbv	98
43) Methyl Methacrylate	8.04	69	216134	2.887	ppbv	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	947719	3.111	ppbv	99
45) t-1,3-Dichloropropene	9.30	75	229749m	3.247	ppbv	
46) cis-1,3-Dichloropropene	8.72	75	287384m	3.030	ppbv	
47) 1,1,2-Trichloroethane	9.49	97	192392	1.950	ppbv	92
48) Dibromochloromethane	10.33	129	291653	2.100	ppbv	98
49) Bromoform	13.07	173	240183	2.331	ppbv	99
50) 4-Methyl-2-Pentanone	8.77	43	593584	3.792	ppbv	99
51) 2-Hexanone	10.17	43	475902m	4.202	ppbv	
52) Tetrachloroethene	11.25	164	164222	2.061	ppbv	97
53) Toluene	9.83	91	580873	2.596	ppbv	100
54) 1,2-Dibromoethane	10.64	107	286671m	2.048	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.15	131	235579	2.026	ppbv #	1
57) Chlorobenzene	12.17	112	402882	1.918	ppbv	92
58) Ethyl Benzene	12.74	91	797788	2.833	ppbv	100
59) m/p-Xylene	13.00	91	1351140m	5.262	ppbv	
60) o-Xylene	13.72	91	630604	2.434	ppbv	99
61) Styrene	13.55	104	399094	2.719	ppbv	99
62) Isopropylbenzene	14.70	105	938236	2.439	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.71	83	399331	1.839	ppbv	97
64) n-propylbenzene	15.59	120	224346m	2.216	ppbv	
65) tert-Butylbenzene	16.77	119	802914	2.490	ppbv	99
66) Benzyl Chloride	17.01	91	182915	2.355	ppbv	98
67) sec-Butylbenzene	17.32	105	1116614	2.535	ppbv	98
69) p-Isopropyltoluene	17.68	119	866964	2.607	ppbv	99
70) n-Butylbenzene	18.58	91	873013	2.652	ppbv	100
71) 2-Chlorotoluene	15.48	91	724340	2.738	ppbv	95
72) 4-Ethyltoluene	15.87	105	687231	2.576	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	675680m	2.703	ppbv	
74) 1,2,4-Trimethylbenzene	16.79	105	675125	2.421	ppbv	92
75) 1,3-Dichlorobenzene	17.03	146	340443m	2.019	ppbv	
76) 1,4-Dichlorobenzene	17.17	146	344436m	2.161	ppbv	
77) 1,2-Dichlorobenzene	17.85	146	311651	2.015	ppbv	97
78) Hexachloro-1,3-Butadiene	23.41	225	258021m	3.035	ppbv	
79) Naphthalene	22.25	128	334601m	2.572	ppbv	
80) Naphthalene, 2-methyl-	25.02	142	28044m	1.064	ppbv	
81) 1,2,4-Trichlorobenzene	21.98	180	224889m	2.517	ppbv	

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

