

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051821\
 Data File : VL036951.D
 Acq On : 18 May 2021 2:39
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 5/20/2021 5:54:14 PM

Quant Time: May 18 11:40:30 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 2021
 QLast Update : Tue May 18 07:06:50 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1387365	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4004705	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3959546	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2914201	9.44	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	476358	2.013	ppbv	97
3) Chlorodifluoromethane	2.98	51	541618	1.986	ppbv	99
4) Chloromethane	3.13	50	186940	2.099	ppbv	98
5) Vinyl Chloride	3.25	62	187783	1.934	ppbv	97
6) Bromomethane	3.46	94	99976	2.041	ppbv	99
7) Chloroethane	3.55	64	68015	2.176	ppbv	94
8) Dichlorotetrafluoroethane	3.18	85	470494	2.108	ppbv	98
9) Propene	3.00	41	188431	2.424	ppbv	94
10) Heptane	8.10	43	480913	2.599	ppbv	98
11) Trichlorofluoromethane	3.93	101	454128	2.132	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.47	101	326417	2.268	ppbv	96
13) Ethanol	3.61	45	25194m	1.707	ppbv	
14) Bromoethene	3.73	108	141644	2.453	ppbv	96
15) Acetone	3.84	43	318057m	2.441	ppbv	
16) 1,3-Butadiene	3.31	39	183587	2.178	ppbv	97
17) tert-Butyl alcohol	4.30	59	253122m	2.102	ppbv	
18) 1,1-Dichloroethene	4.28	96	153730	2.599	ppbv	95
19) Isopropyl Alcohol	3.97	45	148449m	2.000	ppbv	
20) Methylene Chloride	4.33	84	168232	1.581	ppbv	96
21) Allyl Chloride	4.39	41	217231	2.265	ppbv	97
22) trans-1,2-Dichloroethene	4.87	96	143946m	2.373	ppbv	
23) Vinyl Acetate	5.06	43	492961	2.660	ppbv	98
24) 1,1-Dichloroethane	4.99	63	363026m	2.578	ppbv	
25) Ethyl Acetate	5.66	43	754068m	2.343	ppbv	
26) Hexane	5.67	57	380450	2.301	ppbv	97
27) Carbon Disulfide	4.54	76	367611	2.511	ppbv	94
28) Methyl tert-Butyl Ether	5.02	73	456160	2.856	ppbv	99
29) Chloroform	5.73	83	527383	2.126	ppbv	100
30) Cyclohexane	7.11	84	319008	2.523	ppbv	88
31) cis-1,2-Dichloroethene	5.53	61	328575	2.537	ppbv	97
32) 1,1,1-Trichloroethane	6.49	97	536873	2.030	ppbv	99
34) 2-Butanone	5.23	43	320109	2.090	ppbv	92
35) Carbon Tetrachloride	7.00	117	545149	1.742	ppbv	99
36) Benzene	6.87	78	746488	2.320	ppbv	96
37) 1,2-Dichloroethane	6.28	62	364532	1.910	ppbv	99
38) Trichloroethene	7.81	130	295810	2.242	ppbv	98
39) 1,2-Dichloropropane	7.59	63	284233	2.157	ppbv	98
40) 1,4-Dioxane	7.83	88	62994m	1.833	ppbv	
41) Tetrahydrofuran	6.05	42	177562m	2.839	ppbv	
42) Bromodichloromethane	7.77	83	567821	2.021	ppbv	99
43) Methyl Methacrylate	8.00	69	256899	2.744	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.85	57	1295076	2.265	ppbv	98
45) t-1,3-Dichloropropene	9.26	75	189865	2.246	ppbv	94
46) cis-1,3-Dichloropropene	8.68	75	265510	2.243	ppbv	92
47) 1,1,2-Trichloroethane	9.45	97	300838	2.081	ppbv	94
48) Dibromochloromethane	10.28	129	491188	2.259	ppbv	97
49) Bromoform	13.01	173	422351	2.360	ppbv	99
50) 4-Methyl-2-Pentanone	8.73	43	527434	2.516	ppbv	98
51) 2-Hexanone	10.13	43	259516	2.906	ppbv	92
52) Tetrachloroethene	11.20	164	290478	2.457	ppbv	94
53) Toluene	9.78	91	890278	2.774	ppbv	99
54) 1,2-Dibromoethane	10.58	107	427701	2.266	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.10	131	357195	1.962	ppbv #	1
57) Chlorobenzene	12.12	112	661068	1.978	ppbv	99
58) Ethyl Benzene	12.69	91	1192133	2.533	ppbv	100
59) m/p-Xylene	12.98	91	1988856m	4.497	ppbv	
60) o-Xylene	13.67	91	941802	2.201	ppbv	100
61) Styrene	13.50	104	534138	3.040	ppbv	99
62) Isopropylbenzene	14.64	105	1373297	2.354	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.65	83	637626	1.577	ppbv	100
64) n-propylbenzene	15.54	120	353489	2.448	ppbv	86
65) tert-Butylbenzene	16.72	119	1263130	2.441	ppbv	99
66) Benzyl Chloride	16.97	91	69887m	1.484	ppbv	
67) sec-Butylbenzene	17.27	105	1711856	2.342	ppbv	99
69) p-Isopropyltoluene	17.63	119	1482637	2.665	ppbv	99
70) n-Butylbenzene	18.53	91	1394455	2.501	ppbv	98
71) 2-Chlorotoluene	15.43	91	980657	2.351	ppbv	99
72) 4-Ethyltoluene	15.81	105	1120181	2.527	ppbv	98
73) 1,3,5-Trimethylbenzene	15.98	105	1052132	2.429	ppbv	95
74) 1,2,4-Trimethylbenzene	16.74	105	1130269	2.377	ppbv	97
75) 1,3-Dichlorobenzene	16.97	146	663066	2.151	ppbv	98
76) 1,4-Dichlorobenzene	17.11	146	672127m	2.440	ppbv	
77) 1,2-Dichlorobenzene	17.79	146	658023m	2.358	ppbv	
78) Hexachloro-1,3-Butadiene	23.35	225	536298	2.151	ppbv	99
79) Naphthalene	22.17	128	848579	3.950	ppbv	99
80) Naphthalene, 2-methyl-	24.96	142	134590	4.275	ppbv	93
81) 1,2,4-Trichlorobenzene	21.90	180	517718	3.368	ppbv	98

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

