

Data Path : Y:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081621\
 Data File : VL037457.D
 Acq On : 16 Aug 2021 11:45
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 8/19/2021 5:59:02 PM

Quant Time: Aug 16 12:58:55 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 16 2021
 QLast Update : Mon Aug 16 11:33:04 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1516327	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4636665	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	4021052	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2829682	9.81	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	249146	1.075	ppbv	95
3) Chlorodifluoromethane	2.98	51	312119	1.048	ppbv	100
4) Chloromethane	3.13	50	108580	1.014	ppbv	100
5) Vinyl Chloride	3.25	62	113754m	0.965	ppbv	
6) Bromomethane	3.46	94	63185m	1.033	ppbv	
7) Chloroethane	3.55	64	36508	0.938	ppbv #	82
8) Dichlorotetrafluoroethane	3.18	85	278869m	1.079	ppbv	
9) Propene	3.00	41	110082	1.101	ppbv	99
10) Heptane	8.10	43	253129	1.041	ppbv	96
11) Trichlorofluoromethane	3.93	101	243992m	0.973	ppbv	
12) 1,1,2-Trichlorotrifluoroet	4.47	101	182394	1.039	ppbv	99
13) Ethanol	3.62	45	10156m	0.952	ppbv	
14) Bromoethene	3.73	108	79033m	1.012	ppbv	
15) Acetone	3.85	43	181696m	1.130	ppbv	
16) 1,3-Butadiene	3.32	39	100261	0.929	ppbv	95
17) tert-Butyl alcohol	4.30	59	155882m	1.016	ppbv	
18) 1,1-Dichloroethene	4.28	96	82298m	1.009	ppbv	
19) Isopropyl Alcohol	3.98	45	104150m	1.113	ppbv	
20) Methylene Chloride	4.33	84	85424	1.005	ppbv	95
21) Allyl Chloride	4.40	41	126187	1.001	ppbv	94
22) trans-1,2-Dichloroethene	4.87	96	83337m	1.090	ppbv	
23) Vinyl Acetate	5.07	43	198397m	0.804	ppbv	
24) 1,1-Dichloroethane	5.00	63	180193m	0.940	ppbv	
25) Ethyl Acetate	5.67	43	404527	1.056	ppbv #	98
26) Hexane	5.67	57	202153	1.022	ppbv	98
27) Carbon Disulfide	4.54	76	166833	1.001	ppbv #	94
28) Methyl tert-Butyl Ether	5.03	73	174127m	0.823	ppbv	
29) Chloroform	5.73	83	289992m	1.041	ppbv	
30) Cyclohexane	7.11	84	168884	1.037	ppbv #	74
31) cis-1,2-Dichloroethene	5.53	61	182026m	1.065	ppbv	
32) 1,1,1-Trichloroethane	6.50	97	272290	0.969	ppbv	98
34) 2-Butanone	5.24	43	195762m	1.023	ppbv	
35) Carbon Tetrachloride	7.00	117	264442	0.925	ppbv	91
36) Benzene	6.87	78	409978m	1.049	ppbv	
37) 1,2-Dichloroethane	6.29	62	197428	0.989	ppbv	98
38) Trichloroethene	7.82	130	156690	0.908	ppbv	95
39) 1,2-Dichloropropane	7.59	63	161428m	1.084	ppbv	
40) 1,4-Dioxane	7.86	88	43751m	1.207	ppbv	
41) Tetrahydrofuran	6.06	42	92718m	1.055	ppbv	
42) Bromodichloromethane	7.78	83	284723m	1.019	ppbv	
43) Methyl Methacrylate	8.00	69	135087m	1.019	ppbv	

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44) 2,2,4-Trimethylpentane	7.85	57	692573	1.059	ppbv	99
45) t-1,3-Dichloropropene	9.26	75	85058m	0.864	ppbv	
46) cis-1,3-Dichloropropene	8.69	75	130119	0.947	ppbv	99
47) 1,1,2-Trichloroethane	9.46	97	172463m	1.071	ppbv	
48) Dibromochloromethane	10.28	129	224304	0.966	ppbv	100
49) Bromoform	13.02	173	162652	0.924	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	251077m	1.043	ppbv	
51) 2-Hexanone	10.14	43	112268m	0.991	ppbv	
52) Tetrachloroethene	11.20	164	155434m	0.944	ppbv	
53) Toluene	9.79	91	446247	1.000	ppbv	100
54) 1,2-Dibromoethane	10.59	107	228498m	1.043	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.10	131	179570	1.122	ppbv #	1
57) Chlorobenzene	12.13	112	362768m	1.113	ppbv	
58) Ethyl Benzene	12.69	91	591148m	1.084	ppbv	
59) m/p-Xylene	12.97	91	1044241m	2.179	ppbv	
60) o-Xylene	13.66	91	492015m	1.105	ppbv	
61) Styrene	13.51	104	232423m	1.033	ppbv	
62) Isopropylbenzene	14.64	105	671157	1.054	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.66	83	352642	1.050	ppbv	98
64) n-propylbenzene	15.54	120	167011	1.043	ppbv	84
65) tert-Butylbenzene	16.72	119	635709	1.107	ppbv	97
66) Benzyl Chloride	16.96	91	25352m	0.965	ppbv	
67) sec-Butylbenzene	17.27	105	884921	1.133	ppbv	98
69) p-Isopropyltoluene	17.63	119	712327	1.111	ppbv	98
70) n-Butylbenzene	18.54	91	654915	1.099	ppbv	99
71) 2-Chlorotoluene	15.43	91	489305	1.087	ppbv	98
72) 4-Ethyltoluene	15.82	105	583072m	1.128	ppbv	
73) 1,3,5-Trimethylbenzene	15.97	105	551117m	1.128	ppbv	
74) 1,2,4-Trimethylbenzene	16.74	105	562508	1.125	ppbv #	87
75) 1,3-Dichlorobenzene	16.97	146	339257m	1.108	ppbv	
76) 1,4-Dichlorobenzene	17.11	146	342557m	1.129	ppbv	
77) 1,2-Dichlorobenzene	17.80	146	338445m	1.149	ppbv	
78) Hexachloro-1,3-Butadiene	23.35	225	285544	1.197	ppbv	99
79) Naphthalene	22.18	128	337722m	1.242	ppbv	
80) Naphthalene, 2-methyl-	24.95	142	80657	1.405	ppbv	95
81) 1,2,4-Trichlorobenzene	21.90	180	218984m	1.186	ppbv	

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

