

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071421\
 Data File : VN067725.D
 Acq On : 13 Jul 2021 18:37
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN071421

Manual Integrations
 APPROVED

MMDadoda
 7/16/2021 10:42:38 AM

Quant Time: Jul 14 01:21:00 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N071421W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 14 01:19:19 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.659	128	76345	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	448397	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.747	117	426302	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	194036	31.459	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.867%			
60) 4-Bromofluorobenzene	12.733	95	199962	28.883	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 96.267%			
63) Toluene-d8	10.443	98	594615	30.326	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.100%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.070	85	73144	18.747	ug/l	93
3) Chloromethane	2.301	50	92952	19.074	ug/l	99
4) Vinyl Chloride	2.443	62	144241	19.026	ug/l	100
5) Bromomethane	2.856	94	125072	19.814	ug/l	96
6) Chloroethane	3.019	64	108013	19.132	ug/l	100
7) Trichlorofluoromethane	3.371	101	265535	18.876	ug/l	97
8) Diethyl Ether	3.819	74	48642	18.589	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.205	101	74079	18.526	ug/l	99
10) 1,1-Dichloroethene	4.173	96	70710	19.093	ug/l	98
11) Methyl Iodide	4.417	142	77880	15.906	ug/l	97
12) Methyl Acetate	4.859	43	95733	18.939	ug/l	97
13) Acrolein	4.044	56	47449	89.616	ug/l #	43
14) Acrylonitrile	5.559	53	202541	91.125	ug/l	98
15) Acetone	4.285	58	49931	90.622	ug/l	100
16) Carbon Disulfide	4.524	76	175234	17.918	ug/l	97
17) Allyl chloride	4.838	41	119314	18.309	ug/l	96
18) Methylene Chloride	5.095	84	89913	17.544	ug/l	98
19) trans-1,2-Dichloroethene	5.594	96	80606	18.254	ug/l	98
20) Diisopropyl ether	6.501	45	277012	17.953	ug/l	96
21) 1,1-Dichloroethane	6.388	63	154816	18.239	ug/l	98
22) cis-1,2-Dichloroethene	7.329	96	100048	18.361	ug/l	94
23) tert-Butyl Alcohol	5.388	59	75451	92.093	ug/l #	100
24) Methyl tert-Butyl Ether	5.621	73	280830	18.366	ug/l	99
25) Chloroform	7.820	83	172742	18.288	ug/l	98
26) Cyclohexane	8.096	56	133371	18.032	ug/l #	100
29) 1,1-Dichloropropene	8.222	75	122890	17.468	ug/l	99
30) 2-Butanone	7.340	43	286371	87.899	ug/l	98
31) 2,2-Dichloropropane	7.327	77	130468	16.623	ug/l	99
32) 1,1,1-Trichloroethane	8.016	97	152212	17.618	ug/l	99
33) Carbon Tetrachloride	8.206	117	127074	17.226	ug/l	98
34) Benzene	8.461	78	377996	17.975	ug/l	99
35) Methacrylonitrile	7.640	41	61023	18.221	ug/l	97
36) 1,2-Dichloroethane	8.531	62	139725	17.848	ug/l	100
37) Trichloroethene	9.217	130	95995	17.571	ug/l	97
38) Methylcyclohexane	9.461	83	137162	17.603	ug/l	98
39) 1,2-Dichloropropane	9.494	63	94037	17.535	ug/l	99
40) Dibromomethane	9.579	93	68556	17.777	ug/l	99
41) Bromodichloromethane	9.765	83	131636	17.389	ug/l	99
42) Vinyl Acetate	6.436	43	1027500	79.276	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071421\
 Data File : VN067725.D
 Acq On : 13 Jul 2021 18:37
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN071421

Manual Integrations
 APPROVED

MMDadoda
 7/16/2021 10:42:38 AM

Quant Time: Jul 14 01:21:00 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N071421W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 14 01:19:19 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.415	43	121925	18.511	ug/l	97
44) Isopropyl Acetate	8.566	43	211620	17.695	ug/l	97
45) 1,4-Dioxane	9.571	88	29974	330.972	ug/l	97
46) Methyl methacrylate	9.563	41	89771	17.388	ug/l	98
47) n-amyl Acetate	12.390	43	164319	16.738	ug/l	99
48) t-1,3-Dichloropropene	10.719	75	137223	16.821	ug/l	94
49) cis-1,3-Dichloropropene	10.191	75	144770	16.718	ug/l	99
50) 1,1,2-Trichloroethane	10.902	97	94968	17.256	ug/l	95
51) Ethyl methacrylate	10.765	69	146387	17.105	ug/l	96
52) 1,3-Dichloropropane	11.047	76	159376	17.514	ug/l	97
53) Dibromochloromethane	11.240	129	95693	16.611	ug/l	99
54) 1,2-Dibromoethane	11.350	107	97363	17.151	ug/l	99
55) 2-Chloroethyl vinyl ether	10.043	63	129556	78.271	ug/l	98
56) Bromoform	12.460	173	61900	15.336	ug/l #	99
58) 4-Methyl-2-Pentanone	10.333	43	660086	90.175	ug/l	98
59) 2-Hexanone	11.087	43	459754	89.579	ug/l	100
61) Tetrachloroethene	10.979	164	90861	17.351	ug/l	98
62) Toluene	10.507	91	442019	17.628	ug/l	100
64) Chlorobenzene	11.773	112	259557	17.284	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.843	131	97912	17.697	ug/l	96
66) Ethyl Benzene	11.848	91	476575	17.176	ug/l	98
67) m/p-Xylenes	11.956	106	362082	34.213	ug/l	100
68) o-Xylene	12.283	106	181190	17.344	ug/l	98
69) Styrene	12.296	104	292319	16.921	ug/l	99
70) Isopropylbenzene	12.581	105	468149	17.364	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.830	83	137581	17.974	ug/l	99
72) 1,2,3-Trichloropropane	12.884	75	117460m	18.458	ug/l	
73) Bromobenzene	12.862	156	103728	16.740	ug/l	98
74) n-propylbenzene	12.924	91	533987	17.286	ug/l	100
75) 2-Chlorotoluene	13.010	91	324034	17.476	ug/l	99
76) 1,3,5-Trimethylbenzene	13.061	105	385884	17.385	ug/l	100
77) t-1,4-Dichloro-2-butene	12.629	75	31507	14.671	ug/l	95
78) 4-Chlorotoluene	13.106	91	318337	17.220	ug/l	100
79) tert-butylbenzene	13.326	119	330187	17.325	ug/l	97
80) 1,2,4-Trimethylbenzene	13.369	105	380995m	17.286	ug/l	
81) sec-Butylbenzene	13.503	105	450847	17.053	ug/l	100
82) p-Isopropyltoluene	13.619	119	362664	16.482	ug/l	99
83) 1,3-Dichlorobenzene	13.619	146	194234	16.785	ug/l	99
84) 1,4-Dichlorobenzene	13.696	146	186845	16.576	ug/l	99
85) n-Butylbenzene	13.943	91	300049	16.436	ug/l	99
86) Hexachloroethane	14.214	117	59353	16.214	ug/l	100
87) 1,2-Dichlorobenzene	13.991	146	186199	16.853	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.606	75	25072	18.308	ug/l	99
89) 1,2,4-Trichlorobenzene	15.265	180	84107	16.697	ug/l	98
90) Hexachlorobutadiene	15.373	225	40894	16.890	ug/l	96
91) Naphthalene	15.509	128	268055	18.731	ug/l	100
92) 1,2,3-Trichlorobenzene	15.702	180	82155	17.023	ug/l	98

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

