

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091923\
 Data File : VN079299.D
 Acq On : 19 Sep 2023 13:24
 Operator : JC\MD
 Sample : VN0919WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0919WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/19/2023
 Supervised By : Mahesh Dadoda 09/20/2023

Quant Time: Sep 19 15:40:58 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 08 05:09:17 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	40974	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	192489	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	177710	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	92553	30.065	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.233%			
60) 4-Bromofluorobenzene	12.853	95	81073	30.962	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 103.200%			
63) Toluene-d8	10.571	98	256677	30.906	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.033%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.130	85	39171	17.141	ug/l	97
3) Chloromethane	2.365	50	47000	20.511	ug/l	93
4) Vinyl Chloride	2.518	62	50793	22.405	ug/l	97
5) Bromomethane	2.965	94	30975	22.261	ug/l	86
6) Chloroethane	3.124	64	35127	25.300	ug/l	94
7) Trichlorofluoromethane	3.501	101	70100	25.972	ug/l	98
8) Diethyl Ether	3.965	74	25433	25.700	ug/l	87
9) 1,1,2-Trichlorotrifluo...	4.383	101	39583	26.613	ug/l	96
10) 1,1-Dichloroethene	4.348	96	35374	24.545	ug/l	98
11) Methyl Iodide	4.589	142	41137	22.660	ug/l	90
12) Methyl Acetate	5.036	43	86011	25.609	ug/l	98
13) Acrolein	4.183	56	26111	85.361	ug/l	94
14) Acrylonitrile	5.724	53	111639	113.299	ug/l	98
15) Acetone	4.430	58	33372	129.831	ug/l	78
16) Carbon Disulfide	4.718	76	99533	23.373	ug/l	97
17) Allyl chloride	5.024	41	57204	24.702	ug/l	97
18) Methylene Chloride	5.289	84	47907	24.784	ug/l	94
19) trans-1,2-Dichloroethene	5.794	96	40429	22.421	ug/l	95
20) Diisopropyl ether	6.677	45	146330	21.166	ug/l #	90
21) 1,1-Dichloroethane	6.577	63	84879	20.957	ug/l	98
22) cis-1,2-Dichloroethene	7.494	96	49157	17.432	ug/l	93
23) tert-Butyl Alcohol	5.524	59	36476	96.229	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	133020	23.387	ug/l	93
25) Chloroform	7.971	83	88260	18.072	ug/l	95
26) Cyclohexane	8.265	56	62846	17.112	ug/l #	100
29) 1,1-Dichloropropene	8.377	75	62725	20.325	ug/l	97
30) 2-Butanone	7.488	43	154100	99.272	ug/l	99
31) 2,2-Dichloropropane	7.494	77	68322	22.194	ug/l	98
32) 1,1,1-Trichloroethane	8.177	97	75621	20.798	ug/l	96
33) Carbon Tetrachloride	8.365	117	63842	20.440	ug/l	97
34) Benzene	8.612	78	190576	19.436	ug/l	98
35) Methacrylonitrile	7.783	41	34475	20.627	ug/l	93
36) 1,2-Dichloroethane	8.677	62	71924	22.241	ug/l	96
37) Trichloroethene	9.353	130	45370	19.576	ug/l	96
38) Methylcyclohexane	9.606	83	58655	19.011	ug/l	99
39) 1,2-Dichloropropane	9.624	63	51323	20.291	ug/l	100
40) Dibromomethane	9.712	93	34182	20.493	ug/l	95
41) Bromodichloromethane	9.894	83	70944	21.336	ug/l #	95
42) Vinyl Acetate	6.612	43	422525	114.614	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091923\
 Data File : VN079299.D
 Acq On : 19 Sep 2023 13:24
 Operator : JC\MD
 Sample : VN0919WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0919WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/19/2023
 Supervised By : Mahesh Dadoda 09/20/2023

Quant Time: Sep 19 15:40:58 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 08 05:09:17 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	57942	19.654	ug/l	100
44) Isopropyl Acetate	8.688	43	102229	19.276	ug/l	97
45) 1,4-Dioxane	9.700	88	17541	332.285	ug/l #	95
46) Methyl methacrylate	9.682	41	48447	20.447	ug/l	91
47) n-amyl Acetate	12.500	43	73879	19.808	ug/l	97
48) t-1,3-Dichloropropene	10.841	75	70316	19.547	ug/l	93
49) cis-1,3-Dichloropropene	10.318	75	78095	20.813	ug/l #	86
50) 1,1,2-Trichloroethane	11.024	97	48559	20.752	ug/l	98
51) Ethyl methacrylate	10.876	69	66260	18.335	ug/l	87
52) 1,3-Dichloropropane	11.171	76	82657	20.691	ug/l	100
53) Dibromochloromethane	11.365	129	50133	20.427	ug/l	100
54) 1,2-Dibromoethane	11.471	107	46543	19.587	ug/l	97
55) 2-Chloroethyl vinyl ether	10.165	63	113396	88.309	ug/l	99
56) Bromoform	12.582	173	32713	19.129	ug/l	98
58) 4-Methyl-2-Pentanone	10.447	43	320013	98.131	ug/l	93
59) 2-Hexanone	11.200	43	225177	98.321	ug/l	95
61) Tetrachloroethene	11.112	164	38154	19.731	ug/l	94
62) Toluene	10.635	91	199101	19.242	ug/l	100
64) Chlorobenzene	11.894	112	118136	19.571	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.965	131	46662	20.191	ug/l	97
66) Ethyl Benzene	11.965	91	207894	19.955	ug/l	100
67) m/p-Xylenes	12.076	106	154556	39.427	ug/l	95
68) o-Xylene	12.406	106	75298	19.917	ug/l	99
69) Styrene	12.418	104	119888	19.882	ug/l	96
70) Isopropylbenzene	12.700	105	193003	20.084	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	70317	19.561	ug/l	95
72) 1,2,3-Trichloropropane	13.000	75	54085m	17.881	ug/l	
73) Bromobenzene	12.982	156	45335	18.886	ug/l	98
74) n-propylbenzene	13.041	91	231273	21.123	ug/l	99
75) 2-Chlorotoluene	13.129	91	138681	19.753	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	161804	20.364	ug/l	98
77) t-1,4-Dichloro-2-butene	12.735	75	18392	17.271	ug/l	89
78) 4-Chlorotoluene	13.223	91	133783	20.181	ug/l	99
79) tert-butylbenzene	13.447	119	133952	20.539	ug/l	97
80) 1,2,4-Trimethylbenzene	13.488	105	159615	21.035	ug/l	100
81) sec-Butylbenzene	13.617	105	185304	20.766	ug/l	99
82) p-Isopropyltoluene	13.735	119	148544	21.074	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	77520	20.335	ug/l	99
84) 1,4-Dichlorobenzene	13.817	146	74512	20.841	ug/l	98
85) n-Butylbenzene	14.059	91	114546	21.337	ug/l	96
86) Hexachloroethane	14.335	117	30419	21.797	ug/l	92
87) 1,2-Dichlorobenzene	14.112	146	77191	20.518	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	10612	17.465	ug/l	97
89) 1,2,4-Trichlorobenzene	15.847	180	28327	17.596	ug/l	99
90) Hexachlorobutadiene	15.506	225	19905	20.356	ug/l	98
91) Naphthalene	15.647	128	58422	13.887	ug/l	98
92) 1,2,3-Trichlorobenzene	15.847	180	28327	17.596	ug/l	99

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

