

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082923\
 Data File : VN079083.D
 Acq On : 29 Aug 2023 10:31
 Operator : JC\MD
 Sample : VN0829WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0829WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/30/2023
 Supervised By : Mahesh Dadoda 09/01/2023

Quant Time: Aug 29 23:35:19 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N081723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 18 05:21:14 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	37567	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	212610	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	191101	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	93140	30.603	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	= 102.000%		
60) 4-Bromofluorobenzene	12.853	95	84891	30.453	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	= 101.500%		
63) Toluene-d8	10.571	98	273248	30.619	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	= 102.067%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.130	85	48407	20.420	ug/l	98
3) Chloromethane	2.365	50	53860	18.958	ug/l	91
4) Vinyl Chloride	2.518	62	56142	19.966	ug/l	98
5) Bromomethane	2.953	94	35473	20.438	ug/l	98
6) Chloroethane	3.124	64	39428	21.578	ug/l	99
7) Trichlorofluoromethane	3.500	101	75431	19.918	ug/l	97
8) Diethyl Ether	3.965	74	26932	18.908	ug/l	92
9) 1,1,2-Trichlorotrifluo...	4.377	101	42904	21.692	ug/l #	50
10) 1,1-Dichloroethene	4.342	96	38372	19.284	ug/l #	83
11) Methyl Iodide	4.589	142	46681	19.441	ug/l	94
12) Methyl Acetate	5.030	43	89952	19.286	ug/l	96
13) Acrolein	4.195	56	24871	76.505	ug/l #	60
14) Acrylonitrile	5.718	53	115432	94.148	ug/l #	93
15) Acetone	4.430	58	37139	98.746	ug/l	93
16) Carbon Disulfide	4.712	76	106353	18.601	ug/l	98
17) Allyl chloride	5.030	41	65002	17.822	ug/l	92
18) Methylene Chloride	5.283	84	48163	20.247	ug/l	97
19) trans-1,2-Dichloroethene	5.783	96	44883m	20.041	ug/l	
20) Diisopropyl ether	6.677	45	154597	19.486	ug/l #	87
21) 1,1-Dichloroethane	6.577	63	88813	20.174	ug/l	96
22) cis-1,2-Dichloroethene	7.488	96	51301	20.014	ug/l #	90
23) tert-Butyl Alcohol	5.524	59	41550	90.851	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	132322	18.733	ug/l	99
25) Chloroform	7.971	83	89951	20.283	ug/l	94
26) Cyclohexane	8.259	56	63758	19.799	ug/l #	98
29) 1,1-Dichloropropene	8.377	75	62413	19.297	ug/l	99
30) 2-Butanone	7.488	43	171597	90.630	ug/l	99
31) 2,2-Dichloropropane	7.494	77	70405	19.697	ug/l	97
32) 1,1,1-Trichloroethane	8.171	97	77354	20.033	ug/l	97
33) Carbon Tetrachloride	8.365	117	66072	19.754	ug/l	87
34) Benzene	8.612	78	190715	19.677	ug/l	99
35) Methacrylonitrile	7.783	41	37351	18.509	ug/l	91
36) 1,2-Dichloroethane	8.677	62	72736	20.040	ug/l	95
37) Trichloroethene	9.359	130	46462	19.258	ug/l	85
38) Methylcyclohexane	9.606	83	58261	20.461	ug/l	99
39) 1,2-Dichloropropane	9.624	63	50974	19.525	ug/l	99
40) Dibromomethane	9.718	93	34169	19.525	ug/l	99
41) Bromodichloromethane	9.894	83	67392	19.149	ug/l	89
42) Vinyl Acetate	6.612	43	499420	93.555	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	68005	18.514	ug/l	96
44) Isopropyl Acetate	8.694	43	112988	17.457	ug/l	98
45) 1,4-Dioxane	9.700	88	19007	390.249	ug/l	95
46) Methyl methacrylate	9.682	41	52626	18.455	ug/l	95
47) n-amyl Acetate	12.500	43	86880	17.493	ug/l	95
48) t-1,3-Dichloropropene	10.841	75	68713	18.332	ug/l	93
49) cis-1,3-Dichloropropene	10.318	75	76766	19.100	ug/l	98
50) 1,1,2-Trichloroethane	11.018	97	47943	20.273	ug/l	96
51) Ethyl methacrylate	10.876	69	67000	18.305	ug/l	98
52) 1,3-Dichloropropane	11.165	76	80548	19.016	ug/l	100
53) Dibromochloromethane	11.365	129	51696	19.973	ug/l	96
54) 1,2-Dibromoethane	11.471	107	47675	19.636	ug/l	96
55) 2-Chloroethyl vinyl ether	10.165	63	117739	69.593	ug/l	98
56) Bromoform	12.582	173	32510	17.802	ug/l #	97
58) 4-Methyl-2-Pentanone	10.447	43	346883	91.489	ug/l	100
59) 2-Hexanone	11.200	43	252807	91.004	ug/l	98
61) Tetrachloroethene	11.106	164	38498	20.806	ug/l	95
62) Toluene	10.635	91	205976	19.742	ug/l	99
64) Chlorobenzene	11.894	112	122432	19.517	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.965	131	46778	19.502	ug/l	98
66) Ethyl Benzene	11.971	91	210362	19.276	ug/l	100
67) m/p-Xylenes	12.076	106	162879	40.029	ug/l	99
68) o-Xylene	12.406	106	78328	19.523	ug/l	100
69) Styrene	12.418	104	126126	19.347	ug/l	98
70) Isopropylbenzene	12.700	105	186626	19.198	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	68605	18.826	ug/l	100
72) 1,2,3-Trichloropropane	13.000	75	54762m	18.317	ug/l	
73) Bromobenzene	12.982	156	47026	19.001	ug/l	98
74) n-propylbenzene	13.041	91	224904	20.414	ug/l	99
75) 2-Chlorotoluene	13.129	91	140442	20.094	ug/l	100
76) 1,3,5-Trimethylbenzene	13.176	105	159168	20.655	ug/l	100
77) t-1,4-Dichloro-2-butene	12.741	75	19430	17.489	ug/l	85
78) 4-Chlorotoluene	13.223	91	130370	19.470	ug/l	99
79) tert-butylbenzene	13.441	119	129407	19.872	ug/l	99
80) 1,2,4-Trimethylbenzene	13.488	105	154756	20.423	ug/l	99
81) sec-Butylbenzene	13.617	105	179052	20.834	ug/l	99
82) p-Isopropyltoluene	13.735	119	146049	20.815	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	79962	20.020	ug/l	96
84) 1,4-Dichlorobenzene	13.817	146	75499	19.254	ug/l	98
85) n-Butylbenzene	14.059	91	116669	21.141	ug/l	98
86) Hexachloroethane	14.335	117	28878	20.114	ug/l	99
87) 1,2-Dichlorobenzene	14.112	146	79586	19.455	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.729	75	11944	18.261	ug/l	97
89) 1,2,4-Trichlorobenzene	15.847	180	30326	18.771	ug/l	99
90) Hexachlorobutadiene	15.506	225	17576	20.896	ug/l	94
91) Naphthalene	15.647	128	73925	15.865	ug/l	99
92) 1,2,3-Trichlorobenzene	15.847	180	30326	18.771	ug/l	99

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

