

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082824\
 Data File : VN083527.D
 Acq On : 28 Aug 2024 09:43
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/28/2024
 Supervised By : Mahesh Dadoda 08/29/2024

Quant Time: Aug 28 11:59:40 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N082824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 28 11:58:08 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	31650	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	185080	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	164811	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	83082	31.353	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.500%			
60) 4-Bromofluorobenzene	12.847	95	86422	31.508	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 105.033%			
63) Toluene-d8	10.565	98	229037	29.263	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 97.533%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	38865	21.633	ug/l	93
3) Chloromethane	2.359	50	39530	18.973	ug/l	97
4) Vinyl Chloride	2.512	62	41857	21.266	ug/l	97
5) Bromomethane	2.901	94	19869	19.346	ug/l	93
6) Chloroethane	3.065	64	28312	25.402	ug/l	89
7) Trichlorofluoromethane	3.465	101	69404	24.098	ug/l	100
8) Diethyl Ether	3.953	74	24397	17.499	ug/l	86
9) 1,1,2-Trichlorotrifluo...	4.353	101	37894	19.171	ug/l	95
10) 1,1-Dichloroethene	4.324	96	35870	18.547	ug/l	88
11) Methyl Iodide	4.577	142	50660	28.676	ug/l	97
12) Methyl Acetate	5.024	43	64614	26.133	ug/l #	84
13) Acrolein	4.177	56	30173	58.600	ug/l	99
14) Acrylonitrile	5.718	53	96587	87.496	ug/l	97
15) Acetone	4.436	58	26807	107.677	ug/l	85
16) Carbon Disulfide	4.700	76	96305	17.995	ug/l	100
17) Allyl chloride	5.006	41	65218	18.839	ug/l	86
18) Methylene Chloride	5.271	84	39357	17.907	ug/l	89
19) trans-1,2-Dichloroethene	5.777	96	37213	18.485	ug/l	97
20) Diisopropyl ether	6.671	45	128510	17.127	ug/l	98
21) 1,1-Dichloroethane	6.559	63	73764	18.566	ug/l	97
22) cis-1,2-Dichloroethene	7.483	96	46147	18.769	ug/l	93
23) tert-Butyl Alcohol	5.542	59	42264	92.929	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	134297	19.282	ug/l #	88
25) Chloroform	7.965	83	78095	20.431	ug/l	96
26) Cyclohexane	8.253	56	63143	18.489	ug/l #	87
29) 1,1-Dichloropropene	8.371	75	53471	19.406	ug/l	99
30) 2-Butanone	7.483	43	135210	95.196	ug/l	96
31) 2,2-Dichloropropane	7.483	77	69175	24.498	ug/l #	78
32) 1,1,1-Trichloroethane	8.165	97	72693	22.939	ug/l	98
33) Carbon Tetrachloride	8.359	117	61741	24.007	ug/l	95
34) Benzene	8.606	78	162072	18.438	ug/l	97
35) Methacrylonitrile	7.777	41	31582	17.576	ug/l	89
36) 1,2-Dichloroethane	8.665	62	61648	20.892	ug/l #	94
37) Trichloroethene	9.353	130	38296	17.787	ug/l	97
38) Methylcyclohexane	9.600	83	65178	19.581	ug/l	96
39) 1,2-Dichloropropane	9.618	63	40236	17.839	ug/l	100
40) Dibromomethane	9.706	93	28728	19.826	ug/l	95
41) Bromodichloromethane	9.888	83	62110	20.055	ug/l	94
42) Vinyl Acetate	6.600	43	674910	111.640	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	47692	15.348	ug/l	96
44) Isopropyl Acetate	8.688	43	130624	23.762	ug/l #	79
45) 1,4-Dioxane	9.700	88	16649	377.610	ug/l	95
46) Methyl methacrylate	9.682	41	45952	18.295	ug/l	81
47) n-amyl Acetate	12.494	43	82610	16.664	ug/l	92
48) t-1,3-Dichloropropene	10.835	75	64436	19.186	ug/l	97
49) cis-1,3-Dichloropropene	10.312	75	67519	19.015	ug/l #	82
50) 1,1,2-Trichloroethane	11.018	97	38401	19.534	ug/l	95
51) Ethyl methacrylate	10.877	69	65749	17.721	ug/l	82
52) 1,3-Dichloropropane	11.165	76	67757	18.761	ug/l	98
53) Dibromochloromethane	11.359	129	44689	20.894	ug/l	96
54) 1,2-Dibromoethane	11.471	107	39088	19.937	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	153202	82.575	ug/l	98
56) Bromoform	12.576	173	29237	22.460	ug/l #	97
58) 4-Methyl-2-Pentanone	10.447	43	276993	86.561	ug/l #	89
59) 2-Hexanone	11.194	43	207750	87.558	ug/l	90
61) Tetrachloroethene	11.106	164	32179	17.596	ug/l	93
62) Toluene	10.630	91	175040	18.876	ug/l	99
64) Chlorobenzene	11.894	112	110147	19.420	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	39165	21.097	ug/l	99
66) Ethyl Benzene	11.965	91	195303	19.214	ug/l	99
67) m/p-Xylenes	12.071	106	145994	38.739	ug/l	98
68) o-Xylene	12.400	106	72206	19.365	ug/l	97
69) Styrene	12.412	104	122246	19.531	ug/l	99
70) Isopropylbenzene	12.694	105	190710	20.139	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	56355	20.680	ug/l	100
72) 1,2,3-Trichloropropane	12.994	75	49767m	22.318	ug/l	
73) Bromobenzene	12.976	156	43597	21.507	ug/l	94
74) n-propylbenzene	13.035	91	215181	19.246	ug/l	99
75) 2-Chlorotoluene	13.123	91	140783	20.369	ug/l	100
76) 1,3,5-Trimethylbenzene	13.171	105	157736	20.578	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	20128	17.741	ug/l	94
78) 4-Chlorotoluene	13.223	91	139496	20.601	ug/l	100
79) tert-butylbenzene	13.435	119	143040	21.674	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	159650	20.736	ug/l	100
81) sec-Butylbenzene	13.618	105	186846	20.197	ug/l	100
82) p-Isopropyltoluene	13.729	119	158239	21.631	ug/l	97
83) 1,3-Dichlorobenzene	13.735	146	84362	23.112	ug/l	98
84) 1,4-Dichlorobenzene	13.812	146	84017	22.901	ug/l	99
85) n-Butylbenzene	14.059	91	137523	20.581	ug/l	99
86) Hexachloroethane	14.335	117	31574	21.647	ug/l	89
87) 1,2-Dichlorobenzene	14.106	146	81964	22.546	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	13350	21.831	ug/l	92
89) 1,2,4-Trichlorobenzene	15.835	180	44132	22.047	ug/l	97
90) Hexachlorobutadiene	15.500	225	18771	25.319	ug/l	99
91) Naphthalene	15.641	128	157809	20.738	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	44132	22.047	ug/l	97

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

