

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112823\
 Data File : VX039049.D
 Acq On : 28 Nov 2023 15:57
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/29/2023
 Supervised By : Mahesh Dadoda 11/29/2023

Quant Time: Nov 29 01:30:06 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X112423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 27 03:22:25 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.891	128	10337	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.751	114	79046	30.000	ug/l	-0.01
57) Chlorobenzene-d5	10.049	117	99110	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	43067	30.454	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.500%			
60) 4-Bromofluorobenzene	11.079	95	65208	30.123	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.400%			
63) Toluene-d8	8.641	98	118739	30.302	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.000%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.167	85	28016	18.108	ug/l	99
3) Chloromethane	1.295	50	34951	19.729	ug/l	97
4) Vinyl Chloride	1.374	62	34800	19.458	ug/l	98
5) Bromomethane	1.612	94	24605	22.493	ug/l	98
6) Chloroethane	1.691	64	20337	19.527	ug/l	98
7) Trichlorofluoromethane	1.892	101	50492	20.455	ug/l	95
8) Diethyl Ether	2.130	74	19329	20.399	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	27320	19.586	ug/l	99
10) 1,1-Dichloroethene	2.319	96	26937	19.158	ug/l	95
11) Methyl Iodide	2.453	142	28757	18.664	ug/l	99
12) Methyl Acetate	2.697	43	85859	19.579	ug/l	100
13) Acrolein	2.233	56	40494	105.407	ug/l	99
14) Acrylonitrile	3.056	53	104949	97.848	ug/l	99
15) Acetone	2.374	58	34269	87.898	ug/l	98
16) Carbon Disulfide	2.514	76	82093	19.278	ug/l	96
17) Allyl chloride	2.660	41	57236	20.505	ug/l	97
18) Methylene Chloride	2.788	84	33149	19.889	ug/l	99
19) trans-1,2-Dichloroethene	3.093	96	30974	19.477	ug/l	93
20) Diisopropyl ether	3.751	45	105202	19.805	ug/l	97
21) 1,1-Dichloroethane	3.605	63	58236	19.719	ug/l	95
22) cis-1,2-Dichloroethene	4.483	96	37197	20.183	ug/l	98
23) tert-Butyl Alcohol	2.941	59	52814	88.946	ug/l #	100
24) Methyl tert-Butyl Ether	3.105	73	102825	19.852	ug/l	99
25) Chloroform	5.080	83	61146	20.628	ug/l	96
26) Cyclohexane	5.465	56	52764	19.739	ug/l #	98
29) 1,1-Dichloropropene	5.690	75	44302	19.993	ug/l	88
30) 2-Butanone	4.538	43	162173	97.206	ug/l	100
31) 2,2-Dichloropropane	4.465	77	53248	21.017	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	51184	19.985	ug/l	98
33) Carbon Tetrachloride	5.666	117	43239	20.043	ug/l	96
34) Benzene	6.032	78	128497	19.907	ug/l	98
35) Methacrylonitrile	4.904	41	29760	20.138	ug/l	97
36) 1,2-Dichloroethane	6.080	62	48687	20.556	ug/l	98
37) Trichloroethene	7.117	130	32582	19.888	ug/l	97
38) Methylcyclohexane	7.373	83	55357	20.050	ug/l	99
39) 1,2-Dichloropropane	7.422	63	33503	19.680	ug/l	98
40) Dibromomethane	7.574	93	24912	20.711	ug/l	99
41) Bromodichloromethane	7.818	83	47656	20.623	ug/l	100
42) Vinyl Acetate	3.715	43	407691	102.599	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.702	43	57528	20.043	ug/l	98
44) Isopropyl Acetate	6.330	43	88895	19.647	ug/l	99
45) 1,4-Dioxane	7.653	88	18711	405.085	ug/l	98
46) Methyl methacrylate	7.684	41	51709	19.988	ug/l	99
47) n-amyl Acetate	10.842	43	72894	19.034	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	52330	19.531	ug/l	95
49) cis-1,3-Dichloropropene	8.360	75	55835	20.200	ug/l	96
50) 1,1,2-Trichloroethane	9.147	97	32898	20.134	ug/l	96
51) Ethyl methacrylate	9.110	69	40367	19.736	ug/l	95
52) 1,3-Dichloropropane	9.305	76	55750	19.898	ug/l	99
53) Dibromochloromethane	9.519	129	33887	19.311	ug/l	100
54) 1,2-Dibromoethane	9.604	107	34525	19.268	ug/l	99
55) 2-Chloroethyl vinyl ether	8.232	63	129054	99.546	ug/l	99
56) Bromoform	10.799	173	23174	18.298	ug/l	99
58) 4-Methyl-2-Pentanone	8.568	43	293363	97.609	ug/l	99
59) 2-Hexanone	9.427	43	234228	94.944	ug/l	99
61) Tetrachloroethene	9.269	164	24748	19.206	ug/l	95
62) Toluene	8.714	91	140132	19.915	ug/l	98
64) Chlorobenzene	10.073	112	83926	19.608	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	30409	19.727	ug/l	99
66) Ethyl Benzene	10.189	91	157548	19.663	ug/l	99
67) m/p-Xylenes	10.299	106	117005	39.519	ug/l	99
68) o-Xylene	10.640	106	56478	19.693	ug/l	98
69) Styrene	10.653	104	83102	19.579	ug/l	99
70) Isopropylbenzene	10.957	105	151480	19.741	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.207	83	54881	19.159	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	48350m	19.947	ug/l	
73) Bromobenzene	11.195	156	33781	19.336	ug/l	99
74) n-propylbenzene	11.299	91	186073	19.792	ug/l	100
75) 2-Chlorotoluene	11.360	91	107632	19.514	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	129525	19.594	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	17501	18.221	ug/l	96
78) 4-Chlorotoluene	11.451	91	127572	19.672	ug/l	99
79) tert-butylbenzene	11.713	119	124111	19.744	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	127360	19.250	ug/l	99
81) sec-Butylbenzene	11.890	105	155711	19.595	ug/l	99
82) p-Isopropyltoluene	12.006	119	131516	19.528	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	64672	19.344	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	65144	18.990	ug/l	98
85) n-Butylbenzene	12.329	91	134635	20.243	ug/l	99
86) Hexachloroethane	12.536	117	25114	19.680	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	65713	20.440	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	13835	18.885	ug/l	97
89) 1,2,4-Trichlorobenzene	13.585	180	41925	19.669	ug/l	99
90) Hexachlorobutadiene	13.725	225	14181	18.632	ug/l	99
91) Naphthalene	13.774	128	146932	18.691	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	39469	19.117	ug/l	98

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

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