

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100623\
 Data File : VX038157.D
 Acq On : 07 Oct 2023 04:29
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/09/2023
 Supervised By : Mahesh Dadoda 10/09/2023

Quant Time: Oct 07 06:37:54 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X100623W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Oct 07 06:30:32 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	10246	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	74504	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	98775	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	41958	29.975	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.933%		
60) 4-Bromofluorobenzene	11.079	95	59837	29.081	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	96.933%		
63) Toluene-d8	8.647	98	119488	31.240	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	104.133%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	24688	20.023	ug/l	98
3) Chloromethane	1.301	50	24803	20.309	ug/l	95
4) Vinyl Chloride	1.374	62	29606	20.696	ug/l	99
5) Bromomethane	1.612	94	29839	17.239	ug/l	99
6) Chloroethane	1.691	64	21769	17.877	ug/l	96
7) Trichlorofluoromethane	1.886	101	58004	19.038	ug/l	98
8) Diethyl Ether	2.136	74	22038	19.828	ug/l	81
9) 1,1,2-Trichlorotrifluo...	2.331	101	24095	20.705	ug/l	97
10) 1,1-Dichloroethene	2.319	96	23476	20.706	ug/l	96
11) Methyl Iodide	2.453	142	26001	15.389	ug/l	96
12) Methyl Acetate	2.703	43	71681	18.577	ug/l	99
13) Acrolein	2.233	56	17132	70.824	ug/l	93
14) Acrylonitrile	3.062	53	86839	96.024	ug/l	96
15) Acetone	2.380	58	23196	96.327	ug/l	95
16) Carbon Disulfide	2.514	76	59693	19.703	ug/l	96
17) Allyl chloride	2.666	41	35709	18.742	ug/l	90
18) Methylene Chloride	2.794	84	29002	19.619	ug/l	94
19) trans-1,2-Dichloroethene	3.093	96	27607	19.443	ug/l	99
20) Diisopropyl ether	3.757	45	82706	19.781	ug/l #	83
21) 1,1-Dichloroethane	3.611	63	50873	19.992	ug/l	100
22) cis-1,2-Dichloroethene	4.489	96	32387	19.368	ug/l	97
23) tert-Butyl Alcohol	2.953	59	33845	85.148	ug/l #	1
24) Methyl tert-Butyl Ether	3.111	73	86921	19.529	ug/l	97
25) Chloroform	5.099	83	54782	18.960	ug/l	95
26) Cyclohexane	5.471	56	42087	19.553	ug/l #	99
29) 1,1-Dichloropropene	5.696	75	40210	20.399	ug/l	99
30) 2-Butanone	4.556	43	123949	97.830	ug/l	97
31) 2,2-Dichloropropane	4.471	77	23203	15.934	ug/l	97
32) 1,1,1-Trichloroethane	5.391	97	46305	19.660	ug/l	98
33) Carbon Tetrachloride	5.678	117	38946	19.516	ug/l	98
34) Benzene	6.044	78	117488	20.149	ug/l	96
35) Methacrylonitrile	4.922	41	24754	20.869	ug/l	92
36) 1,2-Dichloroethane	6.092	62	46800	20.688	ug/l	99
37) Trichloroethene	7.129	130	30985	20.176	ug/l	97
38) Methylcyclohexane	7.379	83	46301	19.719	ug/l	97
39) 1,2-Dichloropropane	7.434	63	29905	20.459	ug/l	97
40) Dibromomethane	7.580	93	23049	20.180	ug/l	96
41) Bromodichloromethane	7.824	83	39923	19.498	ug/l	99
42) Vinyl Acetate	3.721	43	287740	103.185	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	46455	20.041	ug/l	99
44) Isopropyl Acetate	6.342	43	70384	20.174	ug/l	100
45) 1,4-Dioxane	7.659	88	15004	338.409	ug/l #	1
46) Methyl methacrylate	7.696	41	33627	19.549	ug/l	96
47) n-amyl Acetate	10.842	43	61058	20.159	ug/l	96
48) t-1,3-Dichloropropene	8.982	75	37739	17.932	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	41702	18.689	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	31907	19.787	ug/l	97
51) Ethyl methacrylate	9.116	69	46978	19.453	ug/l	98
52) 1,3-Dichloropropane	9.311	76	52942	20.189	ug/l	99
53) Dibromochloromethane	9.519	129	30725	19.234	ug/l	99
54) 1,2-Dibromoethane	9.610	107	34644	19.661	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	126063	103.423	ug/l	99
56) Bromoform	10.799	173	21586	18.081	ug/l	97
58) 4-Methyl-2-Pentanone	8.574	43	255557	103.368	ug/l	99
59) 2-Hexanone	9.427	43	201381	101.314	ug/l	99
61) Tetrachloroethene	9.275	164	28310	20.976	ug/l	97
62) Toluene	8.720	91	134628	20.457	ug/l	99
64) Chlorobenzene	10.079	112	83164	20.180	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	28611	19.916	ug/l	99
66) Ethyl Benzene	10.195	91	148405	19.887	ug/l	99
67) m/p-Xylenes	10.299	106	112936	39.010	ug/l	94
68) o-Xylene	10.640	106	55529	19.768	ug/l	96
69) Styrene	10.659	104	91855	19.679	ug/l	98
70) Isopropylbenzene	10.963	105	148072	19.988	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.213	83	55020	20.150	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	48866m	19.678	ug/l	
73) Bromobenzene	11.195	156	35559	19.385	ug/l	97
74) n-propylbenzene	11.305	91	179933	19.987	ug/l	98
75) 2-Chlorotoluene	11.366	91	105018	19.853	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	125144	19.331	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	10854	16.057	ug/l	94
78) 4-Chlorotoluene	11.451	91	123045	19.560	ug/l	99
79) tert-butylbenzene	11.713	119	119915	19.500	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	126717	20.047	ug/l	97
81) sec-Butylbenzene	11.890	105	159649	19.845	ug/l	98
82) p-Isopropyltoluene	12.012	119	128816	19.369	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	69609	19.457	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	71830	19.719	ug/l	100
85) n-Butylbenzene	12.335	91	122642	19.326	ug/l	98
86) Hexachloroethane	12.536	117	20898	19.008	ug/l	95
87) 1,2-Dichlorobenzene	12.335	146	68385	19.721	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	12642	19.992	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	45253	20.102	ug/l	98
90) Hexachlorobutadiene	13.725	225	18274	20.181	ug/l	99
91) Naphthalene	13.774	128	159754	20.721	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	45391	20.598	ug/l	99

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

