

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032823\
 Data File : VX034771.D
 Acq On : 28 Mar 2023 01:15
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX032823

Manual Integrations
 APPROVED

Reviewed By :Krupa Patel 03/29/2023
 Supervised By :Semsettin Yesilyurt 03/29/2023

Quant Time: Mar 28 09:14:21 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X032823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 28 09:11:00 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.898	128	28050	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	196785	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	212844	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	84342	31.294	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	104.300%		
60) 4-Bromofluorobenzene	11.079	95	121915	28.666	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	95.567%		
63) Toluene-d8	8.647	98	216824	29.976	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.933%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	53681	20.178	ug/l	100
3) Chloromethane	1.295	50	73670	21.356	ug/l	95
4) Vinyl Chloride	1.374	62	69670	20.470	ug/l	98
5) Bromomethane	1.618	94	49064	21.916	ug/l	97
6) Chloroethane	1.691	64	44959	20.298	ug/l	98
7) Trichlorofluoromethane	1.892	101	108041	19.929	ug/l	98
8) Diethyl Ether	2.136	74	41172	21.095	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	53437	19.428	ug/l	100
10) 1,1-Dichloroethene	2.325	96	55837	20.055	ug/l	93
11) Methyl Iodide	2.453	142	71254	20.097	ug/l	97
12) Methyl Acetate	2.703	43	129970	21.079	ug/l	98
13) Acrolein	2.240	56	71696	100.273	ug/l	98
14) Acrylonitrile	3.069	53	179910	105.964	ug/l	99
15) Acetone	2.392	58	50221	108.954	ug/l	93
16) Carbon Disulfide	2.514	76	141018	19.801	ug/l	98
17) Allyl chloride	2.666	41	112386	20.860	ug/l	98
18) Methylene Chloride	2.788	84	67630	20.620	ug/l	98
19) trans-1,2-Dichloroethene	3.093	96	61723	20.259	ug/l	89
20) Diisopropyl ether	3.758	45	231936	21.013	ug/l	99
21) 1,1-Dichloroethane	3.611	63	124487	21.092	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	71838	20.245	ug/l	99
23) tert-Butyl Alcohol	3.002	59	83284	109.024	ug/l #	1
24) Methyl tert-Butyl Ether	3.111	73	216798	20.954	ug/l	98
25) Chloroform	5.093	83	123204	20.523	ug/l	100
26) Cyclohexane	5.471	56	98049	18.958	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	86526	19.117	ug/l	99
30) 2-Butanone	4.562	43	262249	103.898	ug/l	99
31) 2,2-Dichloropropane	4.477	77	85900	18.715	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	103284	19.452	ug/l	100
33) Carbon Tetrachloride	5.678	117	83123	18.968	ug/l	93
34) Benzene	6.038	78	265737	20.204	ug/l	98
35) Methacrylonitrile	4.922	41	55612	20.130	ug/l	97
36) 1,2-Dichloroethane	6.086	62	106653	20.681	ug/l	98
37) Trichloroethene	7.123	130	65842	19.670	ug/l	99
38) Methylcyclohexane	7.379	83	91250	18.453	ug/l	98
39) 1,2-Dichloropropane	7.428	63	67863	19.850	ug/l	98
40) Dibromomethane	7.580	93	47474	20.214	ug/l	99
41) Bromodichloromethane	7.824	83	87543	19.789	ug/l	99
42) Vinyl Acetate	3.721	43	861720	104.647	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	104189	21.283	ug/l	98
44) Isopropyl Acetate	6.336	43	166582	20.102	ug/l	99
45) 1,4-Dioxane	7.708	88	35246	429.298	ug/l	96
46) Methyl methacrylate	7.690	41	81878	20.278	ug/l	98
47) n-amyl Acetate	10.842	43	142933	19.839	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	92858	19.265	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	105426	19.909	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	65261	19.946	ug/l	96
51) Ethyl methacrylate	9.116	69	106667	20.087	ug/l	99
52) 1,3-Dichloropropane	9.305	76	119023	20.593	ug/l	99
53) Dibromochloromethane	9.519	129	63824	19.718	ug/l	97
54) 1,2-Dibromoethane	9.610	107	71044	20.299	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	288737	103.321	ug/l	99
56) Bromoform	10.799	173	40952	18.350	ug/l	97
58) 4-Methyl-2-Pentanone	8.574	43	522010	106.969	ug/l	99
59) 2-Hexanone	9.427	43	391349	106.511	ug/l	99
61) Tetrachloroethene	9.275	164	54424	18.977	ug/l	96
62) Toluene	8.720	91	279910	20.112	ug/l	99
64) Chlorobenzene	10.080	112	170023	19.838	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	61402	20.041	ug/l	99
66) Ethyl Benzene	10.195	91	308349	19.892	ug/l	99
67) m/p-Xylenes	10.299	106	230834	39.138	ug/l	99
68) o-Xylene	10.640	106	116188	19.920	ug/l	99
69) Styrene	10.653	104	187508	19.501	ug/l	100
70) Isopropylbenzene	10.964	105	289371	19.170	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.214	83	102066	20.570	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	100040m	22.149	ug/l	
73) Bromobenzene	11.195	156	71859	19.822	ug/l	97
74) n-propylbenzene	11.305	91	335675	19.102	ug/l	100
75) 2-Chlorotoluene	11.366	91	209542	19.127	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	241956	19.041	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	24745	17.839	ug/l	94
78) 4-Chlorotoluene	11.451	91	242568	19.314	ug/l	100
79) tert-butylbenzene	11.713	119	230820	19.028	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	242360	19.193	ug/l	98
81) sec-Butylbenzene	11.890	105	277541	18.882	ug/l	100
82) p-Isopropyltoluene	12.006	119	227641	18.353	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	131788	19.250	ug/l	100
84) 1,4-Dichlorobenzene	12.043	146	133769	19.457	ug/l	97
85) n-Butylbenzene	12.329	91	193330	18.085	ug/l	99
86) Hexachloroethane	12.536	117	36453	17.944	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	131058	19.564	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	21416	19.751	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	78017	19.414	ug/l	99
90) Hexachlorobutadiene	13.725	225	29938	19.317	ug/l	99
91) Naphthalene	13.774	128	290321	20.447	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	80038	19.923	ug/l	99

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

