

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071423\
 Data File : VX036530.D
 Acq On : 13 Jul 2023 17:02
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX071423

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

07/14/2023
 Supervised By :Semsettin
 Yesilyurt

Quant Time: Jul 14 04:36:27 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 14 04:32:22 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	34733	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	205054	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	184033	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	85167	29.544	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	98.467%
60) 4-Bromofluorobenzene	11.079	95	89919	30.122	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	100.400%
63) Toluene-d8	8.647	98	254189	30.016	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.067%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	42579	21.941	ug/l	99
3) Chloromethane	1.301	50	53304	20.077	ug/l	97
4) Vinyl Chloride	1.374	62	56714	20.715	ug/l	99
5) Bromomethane	1.612	94	54091	19.292	ug/l	96
6) Chloroethane	1.685	64	37316	20.025	ug/l	95
7) Trichlorofluoromethane	1.886	101	98472	22.170	ug/l	96
8) Diethyl Ether	2.136	74	36015	19.515	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	44682	22.219	ug/l	96
10) 1,1-Dichloroethene	2.319	96	41526	20.430	ug/l	97
11) Methyl Iodide	2.453	142	47573	20.540	ug/l	96
12) Methyl Acetate	2.703	43	91741	19.202	ug/l	95
13) Acrolein	2.233	56	36002	91.857	ug/l	97
14) Acrylonitrile	3.063	53	127739	95.386	ug/l	97
15) Acetone	2.386	58	38415	101.321	ug/l	94
16) Carbon Disulfide	2.514	76	102875	20.862	ug/l	98
17) Allyl chloride	2.666	41	71376	19.796	ug/l	97
18) Methylene Chloride	2.788	84	46545	19.018	ug/l	95
19) trans-1,2-Dichloroethene	3.093	96	45421	20.445	ug/l	99
20) Diisopropyl ether	3.758	45	145803	19.841	ug/l #	91
21) 1,1-Dichloroethane	3.605	63	83779	19.555	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	52273	19.550	ug/l	97
23) tert-Butyl Alcohol	2.971	59	59737m	96.059	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	145474	19.681	ug/l	99
25) Chloroform	5.093	83	87306	19.710	ug/l	99
26) Cyclohexane	5.471	56	71326	21.700	ug/l #	100
29) 1,1-Dichloropropene	5.690	75	63747	20.616	ug/l	99
30) 2-Butanone	4.556	43	186714	95.900	ug/l	99
31) 2,2-Dichloropropane	4.477	77	70215	20.706	ug/l	97
32) 1,1,1-Trichloroethane	5.385	97	74213	20.198	ug/l	99
33) Carbon Tetrachloride	5.672	117	63087	20.126	ug/l	97
34) Benzene	6.038	78	188438	19.771	ug/l	96
35) Methacrylonitrile	4.922	41	37628	18.627	ug/l	96
36) 1,2-Dichloroethane	6.086	62	71182	19.450	ug/l	100
37) Trichloroethene	7.123	130	49775	19.842	ug/l	99
38) Methylcyclohexane	7.379	83	79346	22.057	ug/l	98
39) 1,2-Dichloropropane	7.428	63	50816	19.668	ug/l	97
40) Dibromomethane	7.580	93	35092	18.752	ug/l	99
41) Bromodichloromethane	7.824	83	64847	19.093	ug/l	98
42) Vinyl Acetate	3.721	43	569747	96.883	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	71348	18.826	ug/l	100
44) Isopropyl Acetate	6.342	43	114912	19.013	ug/l	99
45) 1,4-Dioxane	7.671	88	26460	385.693	ug/l #	1
46) Methyl methacrylate	7.690	41	55365	19.167	ug/l	92
47) n-amyl Acetate	10.842	43	98609	19.236	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	70860	19.022	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	77745	19.320	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	47829	18.827	ug/l	97
51) Ethyl methacrylate	9.116	69	77336	19.390	ug/l	96
52) 1,3-Dichloropropane	9.311	76	83165	19.398	ug/l	97
53) Dibromochloromethane	9.519	129	48869	19.058	ug/l	99
54) 1,2-Dibromoethane	9.610	107	52340	19.613	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	186339	86.872	ug/l	99
56) Bromoform	10.799	173	33510	18.784	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	368431	96.814	ug/l	100
59) 2-Hexanone	9.427	43	283476	97.915	ug/l	100
61) Tetrachloroethene	9.275	164	45745	20.753	ug/l	94
62) Toluene	8.720	91	209321	20.272	ug/l	99
64) Chlorobenzene	10.080	112	128968	20.062	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	45176	19.459	ug/l	99
66) Ethyl Benzene	10.195	91	228280	20.342	ug/l	97
67) m/p-Xylenes	10.299	106	179495	41.028	ug/l	99
68) o-Xylene	10.640	106	87417	20.133	ug/l	98
69) Styrene	10.653	104	139553	19.823	ug/l	99
70) Isopropylbenzene	10.964	105	227705	21.056	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.214	83	76930	19.490	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	72913m	19.935	ug/l	
73) Bromobenzene	11.201	156	53170	19.890	ug/l	98
74) n-propylbenzene	11.305	91	269273	21.156	ug/l	98
75) 2-Chlorotoluene	11.366	91	159256	20.575	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	192071	20.669	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	21674	18.046	ug/l	98
78) 4-Chlorotoluene	11.457	91	179600	20.379	ug/l	100
79) tert-butylbenzene	11.713	119	180295	20.441	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	187752	20.391	ug/l	100
81) sec-Butylbenzene	11.890	105	234927	21.161	ug/l	98
82) p-Isopropyltoluene	12.012	119	196011	21.221	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	102172	20.548	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	101391	20.463	ug/l	99
85) n-Butylbenzene	12.335	91	177152	21.070	ug/l	100
86) Hexachloroethane	12.543	117	30415	19.889	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	99010	19.852	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.939	75	16900	19.042	ug/l	97
89) 1,2,4-Trichlorobenzene	13.585	180	64075	20.373	ug/l	100
90) Hexachlorobutadiene	13.725	225	26102	22.849	ug/l	98
91) Naphthalene	13.774	128	219800	19.917	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	61682	19.430	ug/l	99

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

