

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072921\
 Data File : VX023498.D
 Acq On : 28 Jul 2021 17:45
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX072921

Manual Integrations
 APPROVED

MMDadoda
 7/30/2021 6:17:28 PM

Quant Time: Jul 29 03:15:46 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X072921W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 29 03:13:17 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.916	128	38476	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	211231	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	190418	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	87110	29.810	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.367%		
60) 4-Bromofluorobenzene	11.085	95	91155	29.621	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.733%		
63) Toluene-d8	8.653	98	259156	30.168	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.567%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	40715	18.107	ug/l	95
3) Chloromethane	1.294	50	46257	18.247	ug/l	97
4) Vinyl Chloride	1.374	62	45995	18.158	ug/l	97
5) Bromomethane	1.605	94	34108	22.213	ug/l	99
6) Chloroethane	1.685	64	27710	17.553	ug/l	98
7) Trichlorofluoromethane	1.886	101	71877	17.833	ug/l	98
8) Diethyl Ether	2.136	74	26169	17.992	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	40600	18.008	ug/l	99
10) 1,1-Dichloroethene	2.319	96	38214	17.548	ug/l	97
11) Methyl Iodide	2.453	142	47899	15.686	ug/l	97
12) Methyl Acetate	2.715	43	58556	17.826	ug/l	97
13) Acrolein	2.239	56	33383	88.027	ug/l	99
14) Acrylonitrile	3.075	53	130805	88.987	ug/l	98
15) Acetone	2.386	58	36410	87.353	ug/l	99
16) Carbon Disulfide	2.514	76	92114	17.646	ug/l	97
17) Allyl chloride	2.666	41	69749	17.469	ug/l	96
18) Methylene Chloride	2.794	84	45689	17.591	ug/l	93
19) trans-1,2-Dichloroethene	3.099	96	42521	18.210	ug/l	98
20) Diisopropyl ether	3.769	45	145149	18.018	ug/l	98
21) 1,1-Dichloroethane	3.617	63	78889	18.043	ug/l	100
22) cis-1,2-Dichloroethene	4.495	96	48509	17.571	ug/l	97
23) tert-Butyl Alcohol	2.977	59	60413	93.319	ug/l	100
24) Methyl tert-Butyl Ether	3.123	73	138955	17.922	ug/l	99
25) Chloroform	5.105	83	80339	17.757	ug/l	98
26) Cyclohexane	5.476	56	71098	17.557	ug/l #	98
29) 1,1-Dichloropropene	5.702	75	59080	18.273	ug/l	100
30) 2-Butanone	4.568	43	190547	89.908	ug/l	100
31) 2,2-Dichloropropane	4.483	77	62714	17.921	ug/l	98
32) 1,1,1-Trichloroethane	5.391	97	68104	17.884	ug/l	99
33) Carbon Tetrachloride	5.684	117	57624	17.454	ug/l	99
34) Benzene	6.043	78	174818	18.224	ug/l	99
35) Methacrylonitrile	4.928	41	39795	18.602	ug/l	97
36) 1,2-Dichloroethane	6.098	62	65905	18.141	ug/l	100
37) Trichloroethene	7.129	130	47565	18.273	ug/l	97
38) Methylcyclohexane	7.385	83	74026	18.108	ug/l	100
39) 1,2-Dichloropropane	7.433	63	45687	18.224	ug/l	99
40) Dibromomethane	7.586	93	31305	18.040	ug/l	99
41) Bromodichloromethane	7.830	83	54423	17.305	ug/l	99
42) Vinyl Acetate	3.733	43	637119	91.694	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.727	43	72774	18.080	ug/l	98
44) Isopropyl Acetate	6.348	43	114561	17.980	ug/l	99
45) 1,4-Dioxane	7.665	88	24481	376.417	ug/l	94
46) Methyl methacrylate	7.696	41	54709	17.853	ug/l	99
47) n-amyl Acetate	10.847	43	97234	18.221	ug/l	100
48) t-1,3-Dichloropropene	8.982	75	64335	17.512	ug/l	98
49) cis-1,3-Dichloropropene	8.372	75	70027	17.841	ug/l	98
50) 1,1,2-Trichloroethane	9.159	97	45282	17.761	ug/l	97
51) Ethyl methacrylate	9.122	69	72697	17.688	ug/l	96
52) 1,3-Dichloropropane	9.311	76	76044	17.964	ug/l	97
53) Dibromochloromethane	9.525	129	41865	16.905	ug/l	98
54) 1,2-Dibromoethane	9.616	107	47907	17.739	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	184878	90.839	ug/l	100
56) Bromoform	10.805	173	29150	16.656	ug/l	98
58) 4-Methyl-2-Pentanone	8.580	43	375903	94.408	ug/l	100
59) 2-Hexanone	9.433	43	291339	94.660	ug/l	100
61) Tetrachloroethene	9.275	164	45696	18.394	ug/l	96
62) Toluene	8.720	91	191637	18.201	ug/l	100
64) Chlorobenzene	10.085	112	119016	18.150	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.165	131	42402	18.060	ug/l	99
66) Ethyl Benzene	10.195	91	210704	18.117	ug/l	100
67) m/p-Xylenes	10.305	106	163464	36.939	ug/l	98
68) o-Xylene	10.646	106	80778	18.367	ug/l	98
69) Styrene	10.659	104	131855	18.505	ug/l	98
70) Isopropylbenzene	10.963	105	210191	18.352	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	72197	19.657	ug/l	99
72) 1,2,3-Trichloropropane	11.244	75	65840m	19.273	ug/l	
73) Bromobenzene	11.201	156	51597	18.159	ug/l	97
74) n-propylbenzene	11.305	91	243610	18.424	ug/l	100
75) 2-Chlorotoluene	11.366	91	145380	18.350	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	174233	18.284	ug/l	100
77) t-1,4-Dichloro-2-butene	11.024	75	20594	17.324	ug/l	95
78) 4-Chlorotoluene	11.457	91	160615	18.058	ug/l	98
79) tert-butylbenzene	11.719	119	171698	18.515	ug/l	99
80) 1,2,4-Trimethylbenzene	11.756	105	175434	18.684	ug/l	100
81) sec-Butylbenzene	11.896	105	214952	18.139	ug/l	99
82) p-Isopropyltoluene	12.012	119	179975	18.396	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	91764	18.233	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	93357	18.663	ug/l	99
85) n-Butylbenzene	12.335	91	155497	17.974	ug/l	99
86) Hexachloroethane	12.542	117	26805	17.395	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	92107	19.013	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	13549	17.131	ug/l	97
89) 1,2,4-Trichlorobenzene	13.591	180	54976	18.267	ug/l	99
90) Hexachlorobutadiene	13.731	225	24658	18.391	ug/l	99
91) Naphthalene	13.780	128	189553	18.113	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	55743	18.303	ug/l	98

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

