

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU051721\
 Data File : VU043793.D
 Acq On : 17 May 2021 15:24
 Operator : SY/MD
 Sample : M2250-02
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 18 03:12:00 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR051521WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat May 15 00:49:19 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	6.256	114	234745	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.424	117	232415	5.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.819	152	129013	5.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.601	65	76681	4.43	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	88.60%
7) Chloroethane-d5	1.919	69	56645	4.69	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	93.80%
11) 1,1-Dichloroethene-d2	2.572	65	33165	4.62	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	92.40%
20) 2-Butanone-d5	4.642	46	200975	61.07	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	122.14%
24) Chloroform-d	5.073	84	136114	4.84	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.80%
26) 1,2-Dichloroethane-d4	5.713	65	71426	4.95	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.00%
32) Benzene-d6	5.736	84	293453	4.97	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.40%
36) 1,2-Dichloropropane-d6	6.700	67	90550	4.81	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.20%
41) Toluene-d8	7.906	98	244103	4.48	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.60%
43) trans-1,3-Dichloroprop...	8.186	79	32249	4.62	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	92.40%
46) 2-Hexanone-d5	8.642	63	151289	48.10	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	96.20%
56) 1,1,2,2-Tetrachloroeth...	10.764	84	71847	4.66	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	93.20%
66) 1,2-Dichlorobenzene-d4	12.198	152	104919	4.88	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	97.60%
Target Compounds						
5) Vinyl chloride	1.607	62	55169	2.77	ug/L	96
12) 1,1-Dichloroethene	2.588	96	4589	0.30	ug/L #	1
15) Methyl Acetate	3.051	43	79440	12.78	ug/L #	51
16) Methylene chloride	3.054	84	25987	1.13	ug/L	86
18) trans-1,2-Dichloroethene	3.366	96	1166	0.07	ug/L	87
19) 1,1-Dichloroethane	3.880	63	77002	2.62	ug/L	99
22) cis-1,2-Dichloroethene	4.678	96	102264	5.98	ug/L	98
29) 1,1,1-Trichloroethane	5.327	97	135852	5.61	ug/L	98
30) Cyclohexane	5.398	56	73836	2.75	ug/L	98
31) Carbon tetrachloride	5.327	117	19225	0.95	ug/L	99
35) Methylcyclohexane	6.700	83	20696	0.77	ug/L #	17
37) 1,2-Dichloropropane	6.700	63	9204	0.52	ug/L #	88
42) Toluene	7.977	91	410239	5.81	ug/L	99
51) Chlorobenzene	9.453	112	110644	2.51	ug/L	99
52) Ethylbenzene	9.578	91	86549	1.20	ug/L	96
53) m,p-Xylene	9.700	106	58704	2.14	ug/L	96
54) o-Xylene	10.108	106	28082	1.07	ug/L	95
60) Isopropylbenzene	10.491	105	27074	0.38	ug/L	99
61) 1,2,3-Trichloropropane	11.002	75	1509	0.12	ug/L #	1

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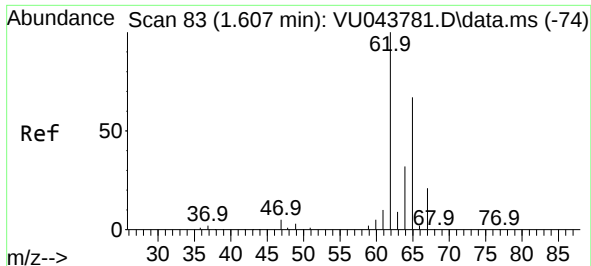
Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 18 03:12:00 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR051521WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat May 15 00:49:19 2021
 Response via : Initial Calibration

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

62) 1,3,5-Trimethylbenzene	11.096	105	83150	1.46	ug/L	100
63) 1,2,4-Trimethylbenzene	11.475	105	391645	6.71	ug/L	99
64) 1,3-Dichlorobenzene	11.751	146	22458	0.62	ug/L	97
65) 1,4-Dichlorobenzene	11.845	146	40695	1.11	ug/L	95
67) 1,2-Dichlorobenzene	12.221	146	13413	0.38	ug/L	98
69) 1,3,5-Trichlorobenzene	13.848	180	6267	0.22	ug/L	96
70) 1,2,4-trichlorobenzene	13.848	180	6267	0.26	ug/L	96
71) Naphthalene	14.095	128	36049	0.85	ug/L	100
72) 1,2,3-Trichlorobenzene	14.337	180	2085	0.09	ug/L	96

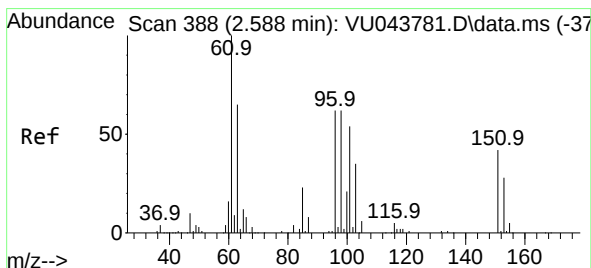
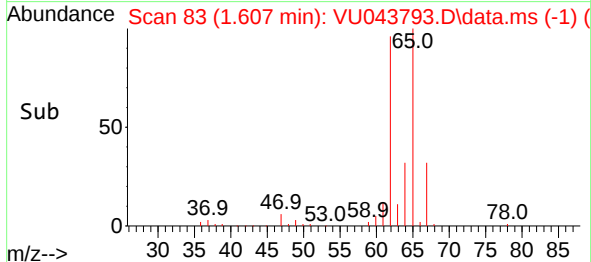
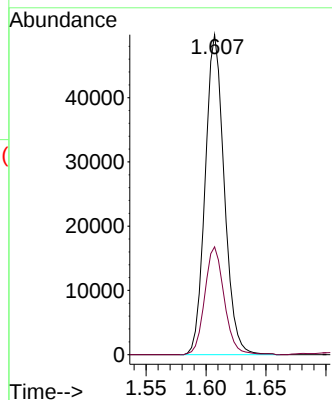
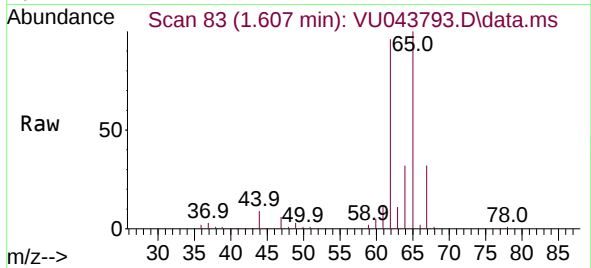
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#5
 Vinyl chloride
 Concen: 2.77 ug/L
 RT: 1.607 min Scan# 83
 Delta R.T. 0.000 min
 Lab File: VU043793.D
 Acq: 17 May 2021 15:24

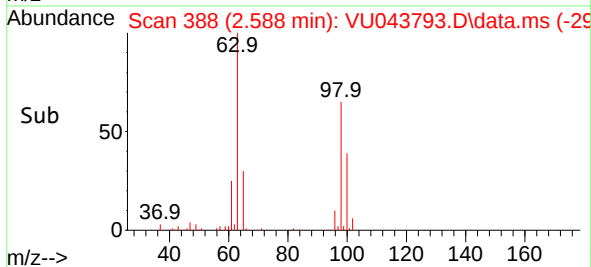
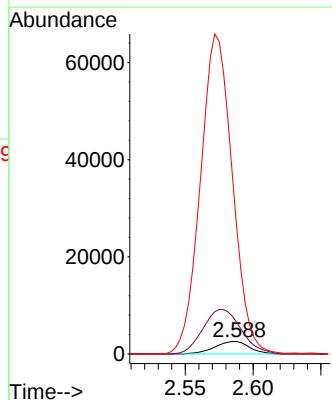
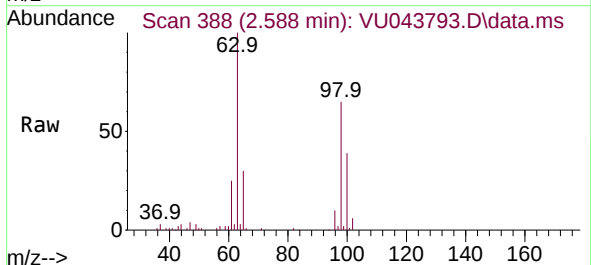
Instrument :
 MSVOA_U
 ClientSampled :

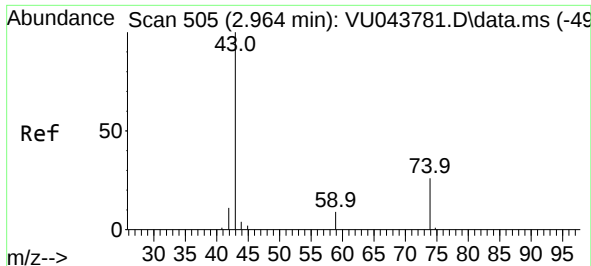
Tgt Ion: 62 Resp: 55169
 Ion Ratio Lower Upper
 62 100
 64 33.7 22.1 41.1



#12
 1,1-Dichloroethene
 Concen: 0.30 ug/L
 RT: 2.588 min Scan# 388
 Delta R.T. 0.000 min
 Lab File: VU043793.D
 Acq: 17 May 2021 15:24

Tgt Ion: 96 Resp: 4589
 Ion Ratio Lower Upper
 96 100
 61 255.1 117.5 218.1#
 63 1025.1 77.3 143.7#

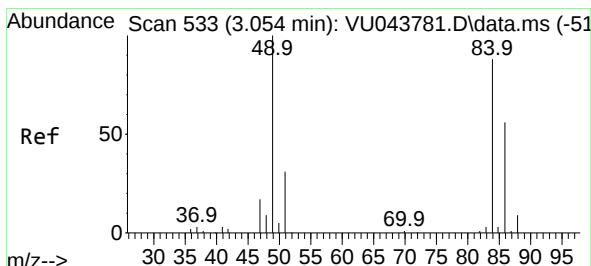
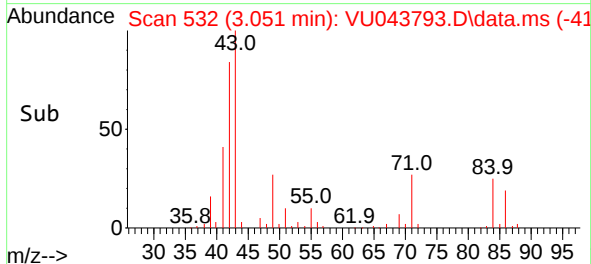
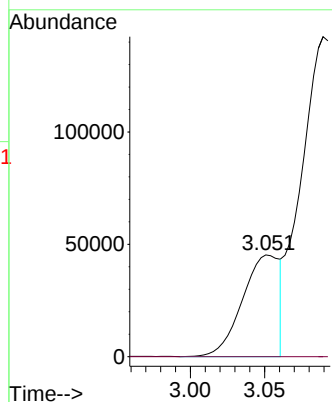
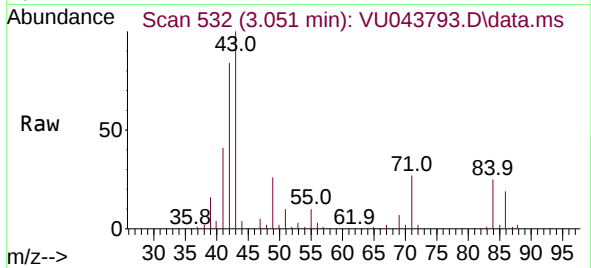




#15
Methyl Acetate
Concen: 12.78 ug/L
RT: 3.051 min Scan# 532
Delta R.T. 0.087 min
Lab File: VU043793.D
Acq: 17 May 2021 15:24

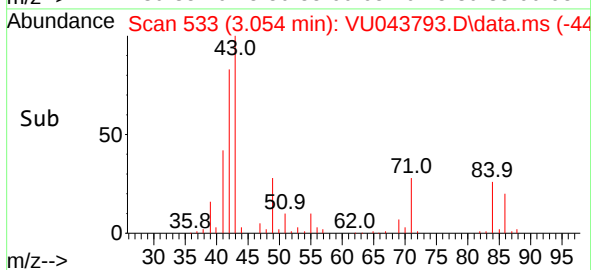
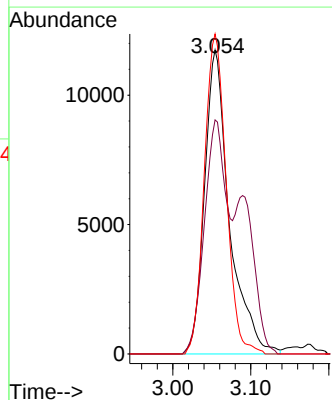
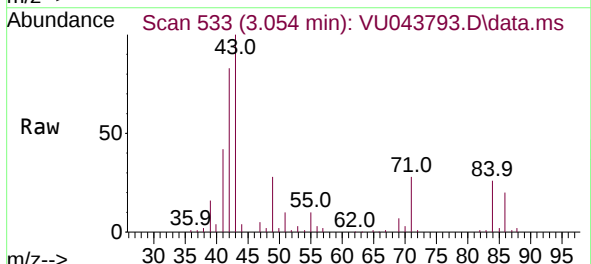
Instrument :
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ClientSampled :

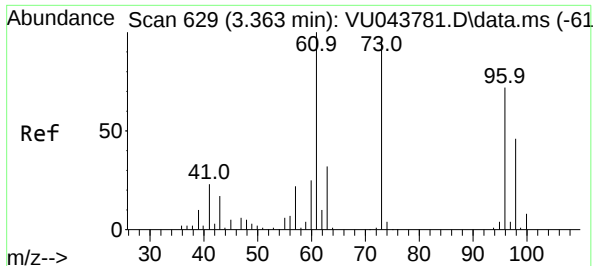
Tgt Ion: 43 Resp: 79440
Ion Ratio Lower Upper
43 100
74 0.0 19.3 28.9#



#16
Methylene chloride
Concen: 1.13 ug/L
RT: 3.054 min Scan# 533
Delta R.T. 0.000 min
Lab File: VU043793.D
Acq: 17 May 2021 15:24

Tgt Ion: 84 Resp: 25987
Ion Ratio Lower Upper
84 100
86 77.0 44.7 82.9
49 105.3 83.1 154.3



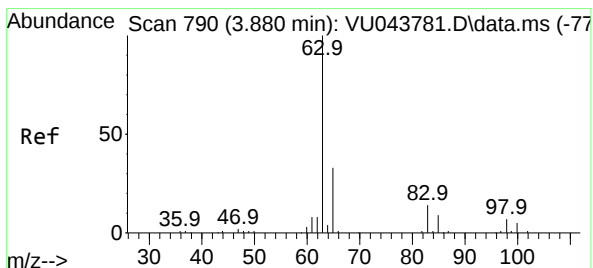
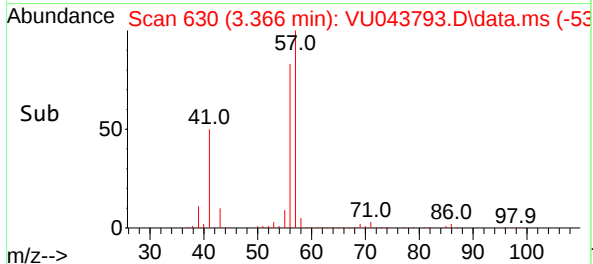
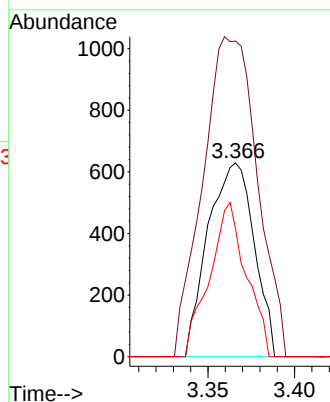
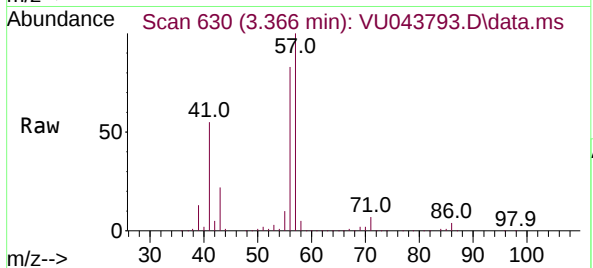


#18

trans-1,2-Dichloroethene
Concen: 0.07 ug/L
RT: 3.366 min Scan# 630
Delta R.T. 0.003 min
Lab File: VU043793.D
Acq: 17 May 2021 15:24

Instrument :
MSVOA_U
ClientSampled :

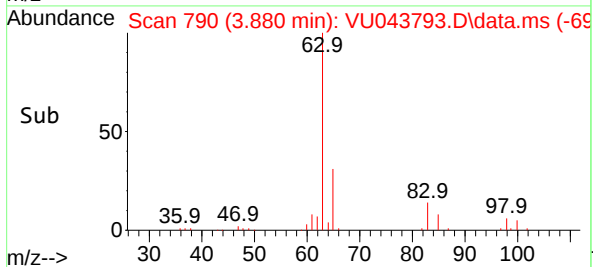
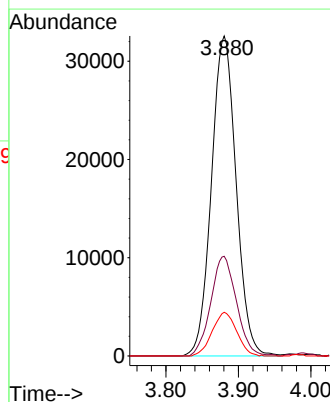
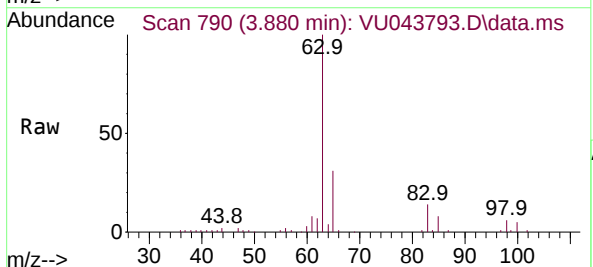
Tgt Ion: 96 Resp: 1166
Ion Ratio Lower Upper
96 100
61 163.0 99.6 185.0
98 66.0 43.8 81.4

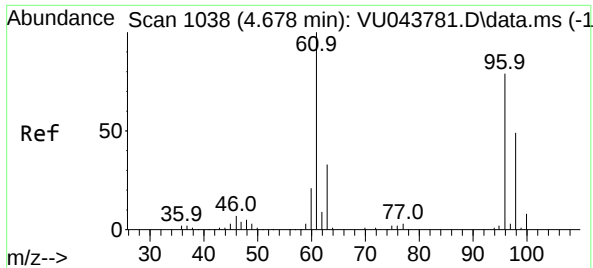


#19

1,1-Dichloroethane
Concen: 2.62 ug/L
RT: 3.880 min Scan# 790
Delta R.T. 0.000 min
Lab File: VU043793.D
Acq: 17 May 2021 15:24

Tgt Ion: 63 Resp: 77002
Ion Ratio Lower Upper
63 100
65 31.2 22.3 41.3
83 13.6 9.0 16.8

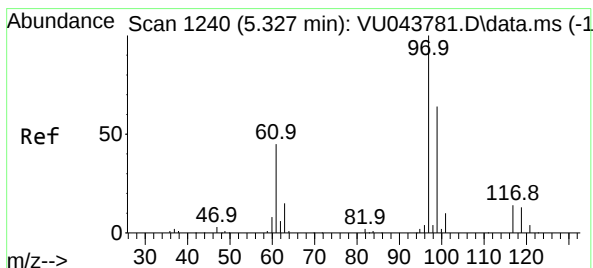
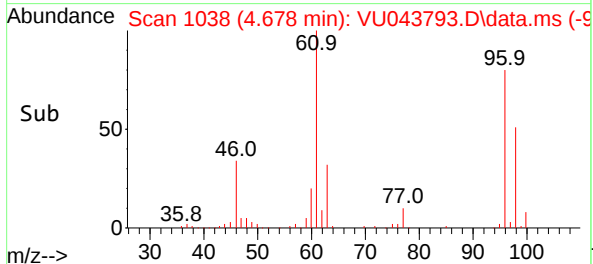
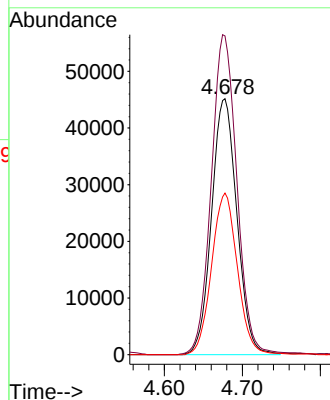
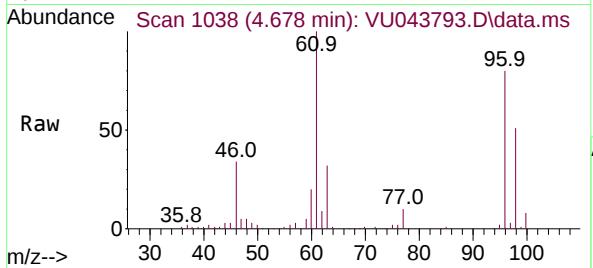




#22
 cis-1,2-Dichloroethene
 Concen: 5.98 ug/L
 RT: 4.678 min Scan# 1038
 Delta R.T. 0.000 min
 Lab File: VU043793.D
 Acq: 17 May 2021 15:24

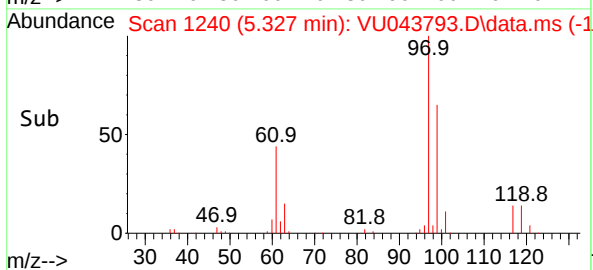
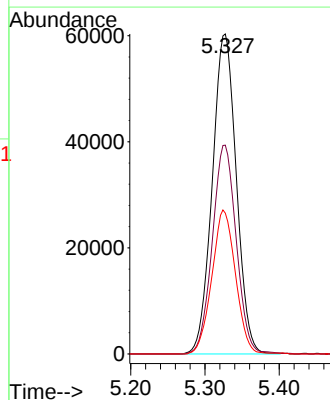
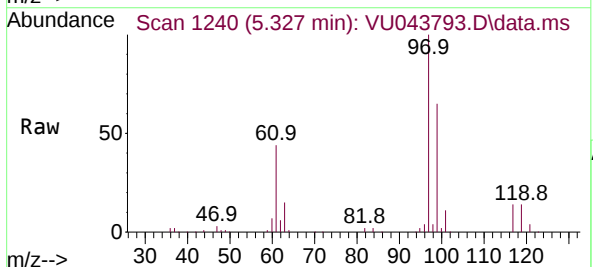
Instrument :
 MSVOA_U
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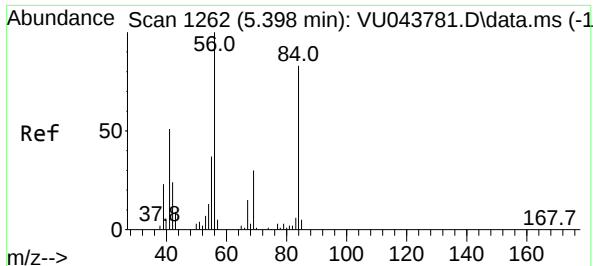
Tgt Ion: 96 Resp: 102264
 Ion Ratio Lower Upper
 96 100
 61 124.5 89.0 165.4
 98 63.1 44.9 83.3



#29
 1,1,1-Trichloroethane
 Concen: 5.61 ug/L
 RT: 5.327 min Scan# 1240
 Delta R.T. 0.000 min
 Lab File: VU043793.D
 Acq: 17 May 2021 15:24

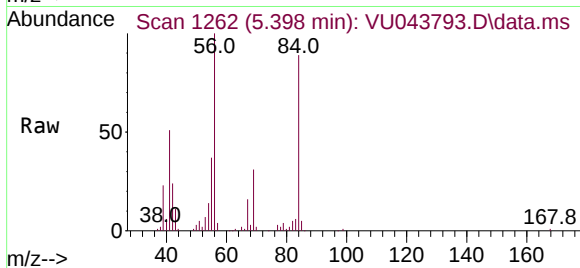
Tgt Ion: 97 Resp: 135852
 Ion Ratio Lower Upper
 97 100
 99 65.1 51.1 76.7
 61 44.2 37.0 55.4



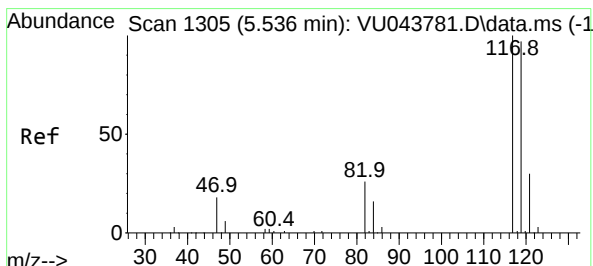
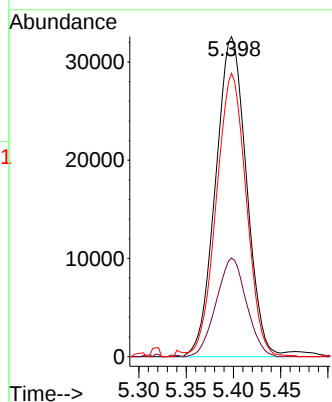
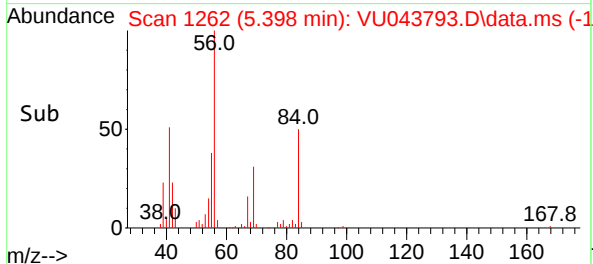


#30
Cyclohexane
Concen: 2.75 ug/L
RT: 5.398 min Scan# 1262
Delta R.T. 0.000 min
Lab File: VU043793.D
Acq: 17 May 2021 15:24

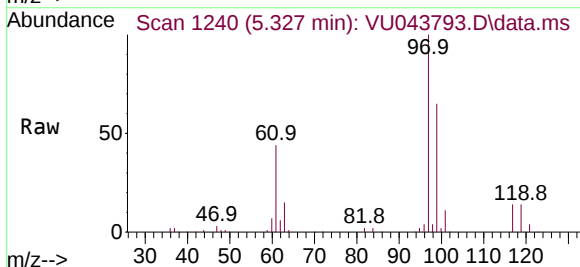
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ClientSampled :



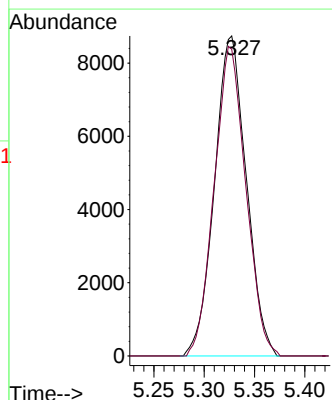
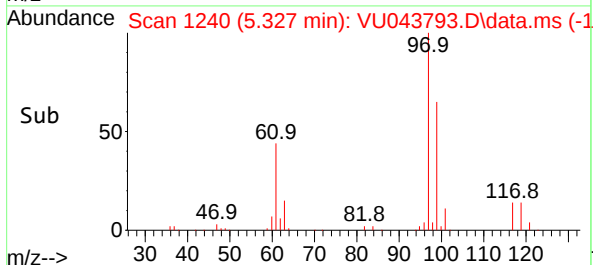
Tgt Ion: 56 Resp: 73836
Ion Ratio Lower Upper
56 100
69 30.3 24.8 37.2
84 86.2 66.8 100.2

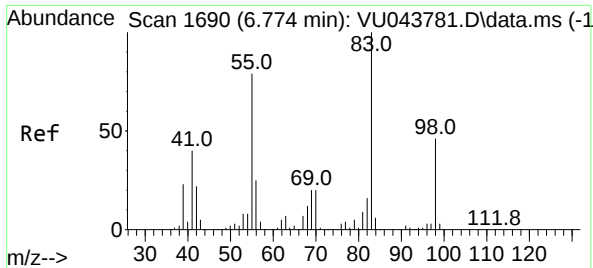


#31
Carbon tetrachloride
Concen: 0.95 ug/L
RT: 5.327 min Scan# 1240
Delta R.T. -0.206 min
Lab File: VU043793.D
Acq: 17 May 2021 15:24



Tgt Ion: 117 Resp: 19225
Ion Ratio Lower Upper
117 100
119 95.9 77.4 116.0

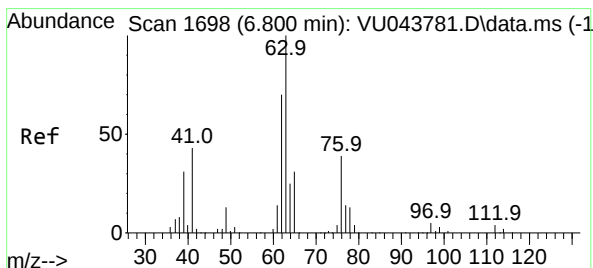
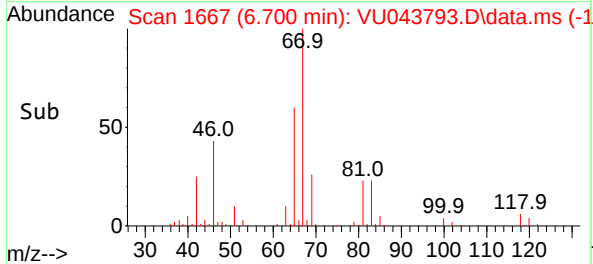
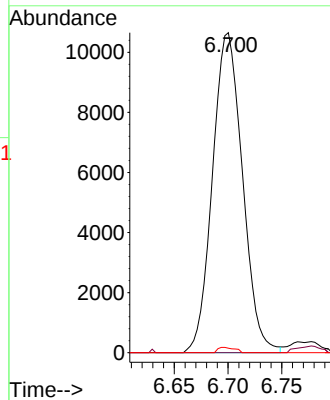
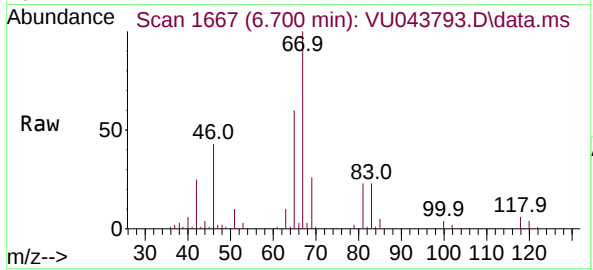




#35
Methylcyclohexane
Concen: 0.77 ug/L
RT: 6.700 min Scan# 1667
Delta R.T. -0.071 min
Lab File: VU043793.D
Acq: 17 May 2021 15:24

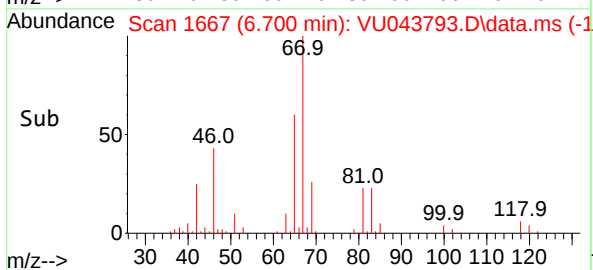
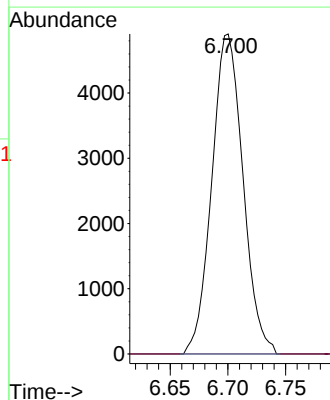
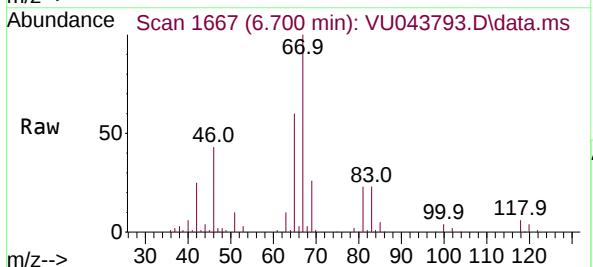
Instrument :
MSVOA_U
ClientSampled :

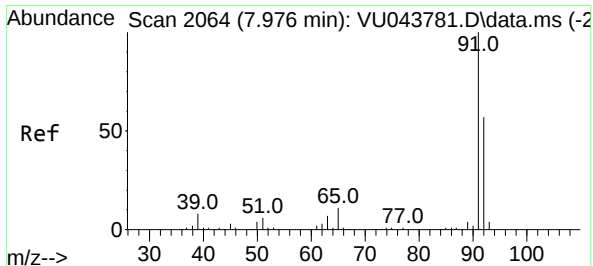
Tgt Ion: 83	Resp: 20696
Ion Ratio	Lower Upper
83 100	
55 0.1	64.8 97.2#
98 0.9	35.9 53.9#



#37
1,2-Dichloropropane
Concen: 0.52 ug/L
RT: 6.700 min Scan# 1667
Delta R.T. -0.100 min
Lab File: VU043793.D
Acq: 17 May 2021 15:24

Tgt Ion: 63	Resp: 9204
Ion Ratio	Lower Upper
63 100	
112 0.0	3.3 4.9#





#42

Toluene

Concen: 5.81 ug/L

RT: 7.977 min Scan# 2064

Delta R.T. 0.000 min

Lab File: VU043793.D

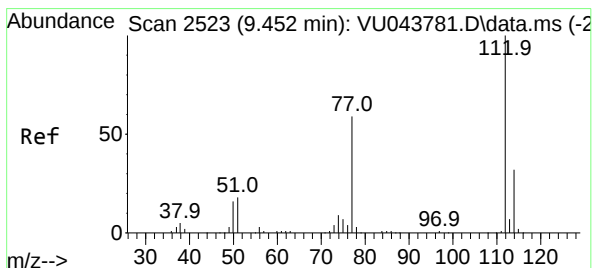
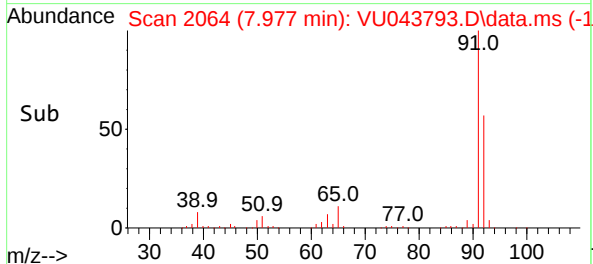
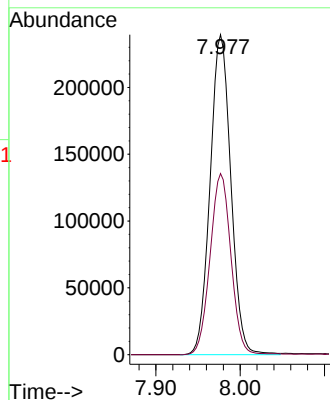
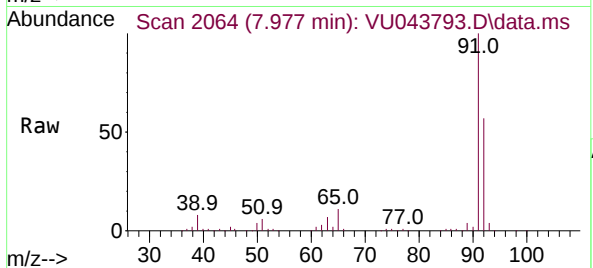
Acq: 17 May 2021 15:24

Tgt Ion: 91 Resp: 410239

Ion Ratio Lower Upper

91 100

92 56.6 40.3 74.8



#51

Chlorobenzene

Concen: 2.51 ug/L

RT: 9.453 min Scan# 2523

Delta R.T. 0.000 min

Lab File: VU043793.D

Acq: 17 May 2021 15:24

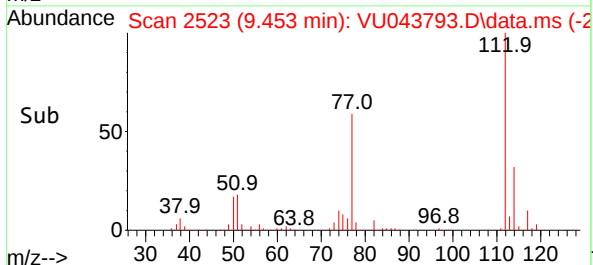
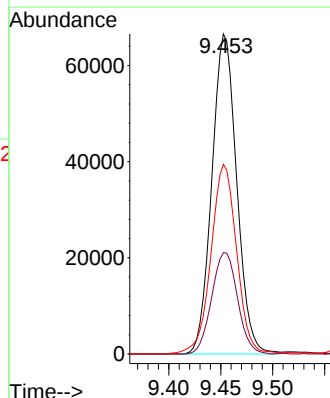
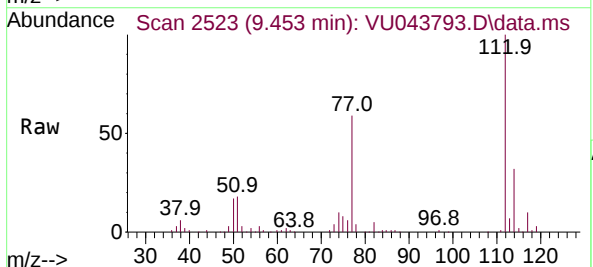
Tgt Ion: 112 Resp: 110644

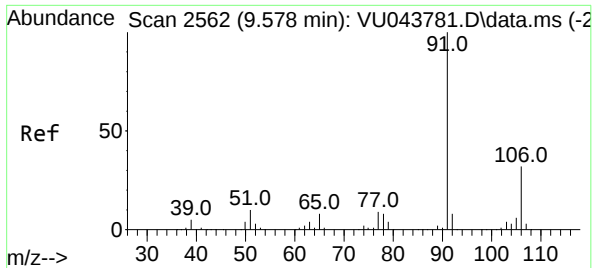
Ion Ratio Lower Upper

112 100

114 31.6 22.3 41.5

77 59.3 47.8 71.8

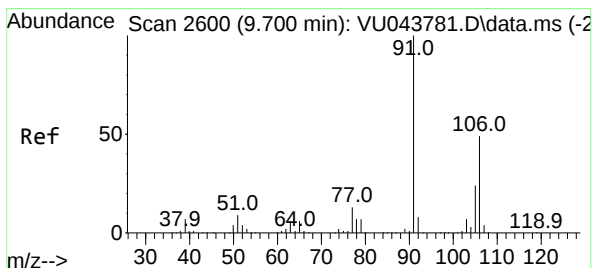
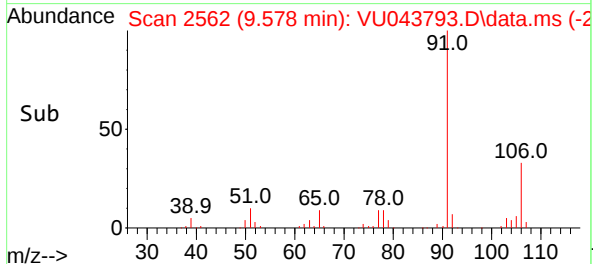
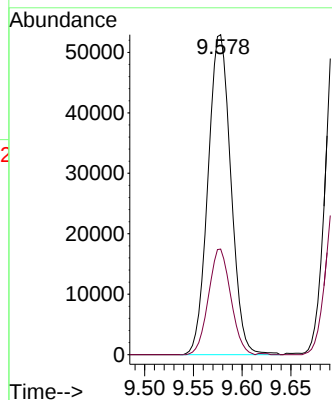
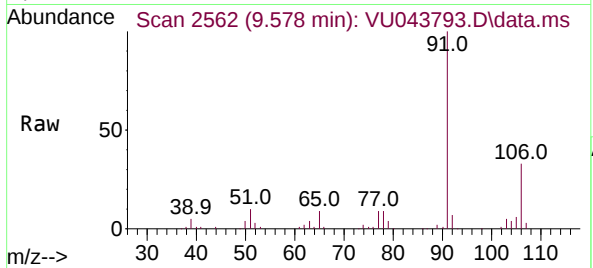




#52
Ethylbenzene
Concen: 1.20 ug/L
RT: 9.578 min Scan# 2562
Delta R.T. 0.000 min
Lab File: VU043793.D
Acq: 17 May 2021 15:24

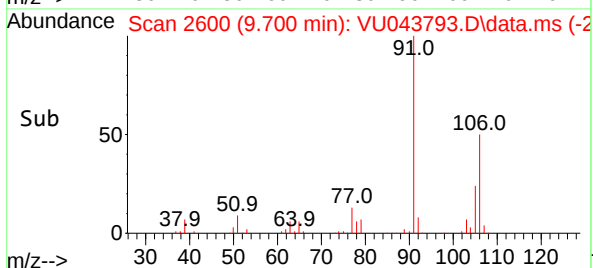
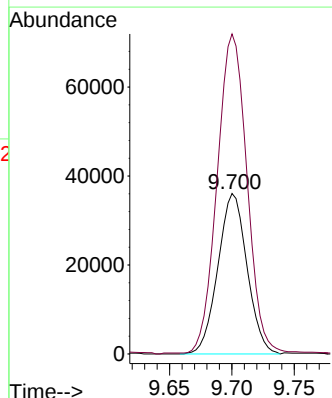
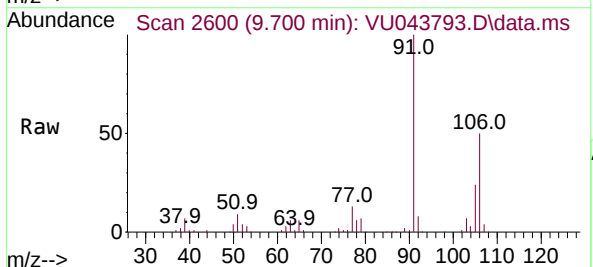
Instrument :
MSVOA_U
ClientSampled :

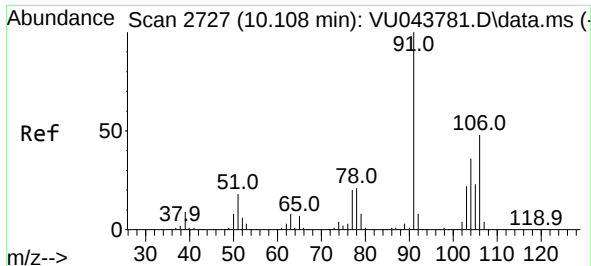
Tgt Ion: 91 Resp: 86549
Ion Ratio Lower Upper
91 100
106 33.0 21.7 40.3



#53
m,p-Xylene
Concen: 2.14 ug/L
RT: 9.700 min Scan# 2600
Delta R.T. 0.000 min
Lab File: VU043793.D
Acq: 17 May 2021 15:24

Tgt Ion: 106 Resp: 58704
Ion Ratio Lower Upper
106 100
91 199.4 144.4 268.2

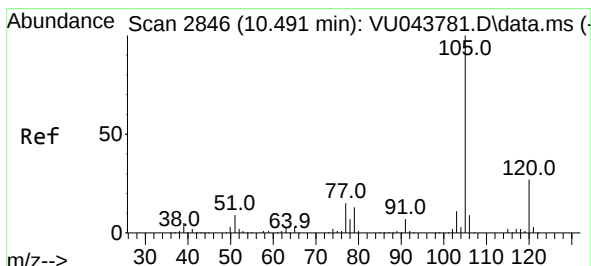
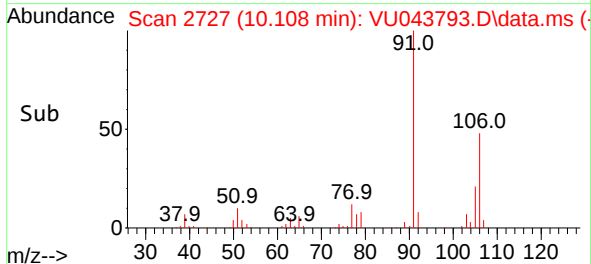
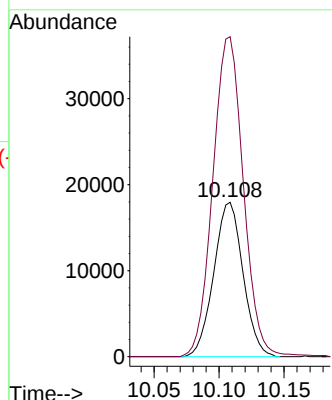
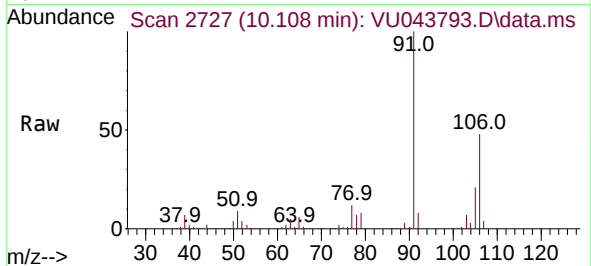




#54
o-Xylene
Concen: 1.07 ug/L
RT: 10.108 min Scan# 2727
Delta R.T. 0.000 min
Lab File: VU043793.D
Acq: 17 May 2021 15:24

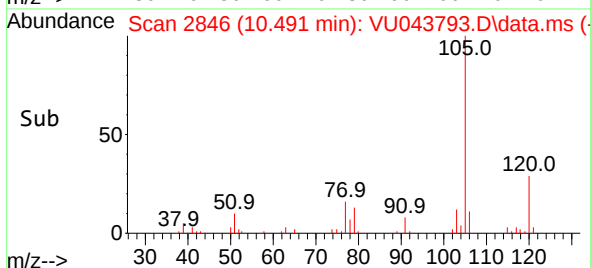
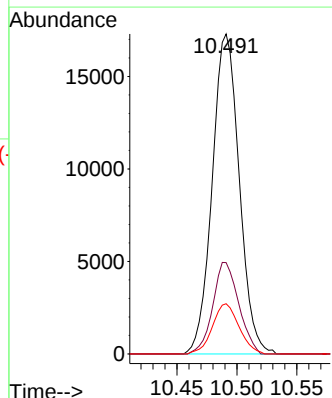
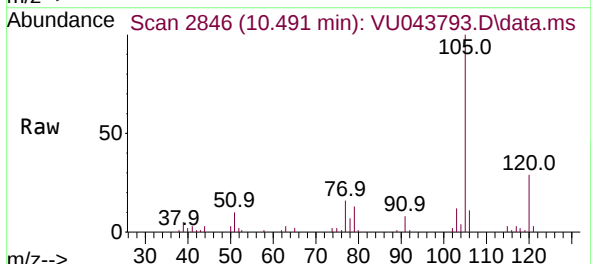
Instrument :
MSVOA_U
ClientSampled :

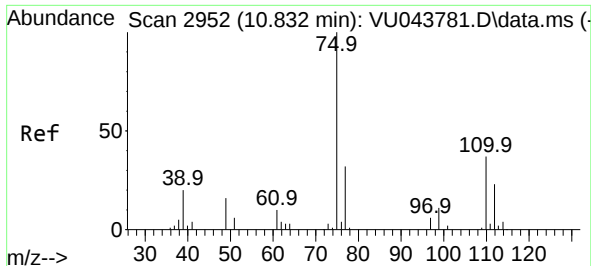
Tgt Ion:106 Resp: 28082
Ion Ratio Lower Upper
106 100
91 207.2 150.8 280.0



#60
Isopropylbenzene
Concen: 0.38 ug/L
RT: 10.491 min Scan# 2846
Delta R.T. 0.000 min
Lab File: VU043793.D
Acq: 17 May 2021 15:24

Tgt Ion:105 Resp: 27074
Ion Ratio Lower Upper
105 100
120 27.5 21.3 31.9
77 15.5 12.6 19.0

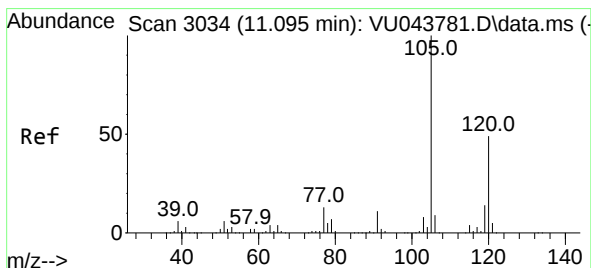
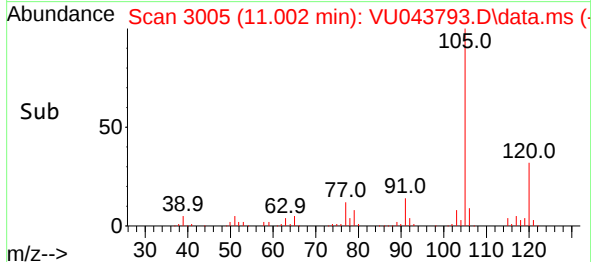
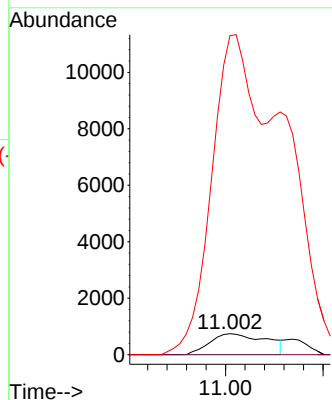
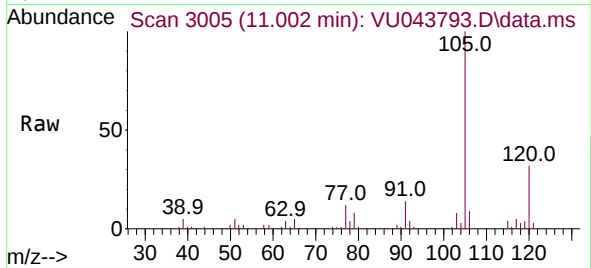




#61
1,2,3-Trichloropropane
Concen: 0.12 ug/L
RT: 11.002 min Scan# 3005
Delta R.T. 0.174 min
Lab File: VU043793.D
Acq: 17 May 2021 15:24

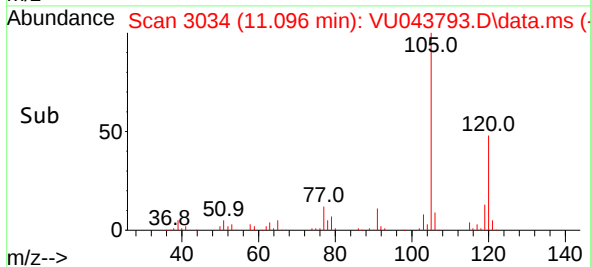
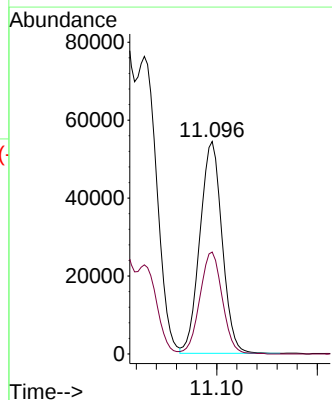
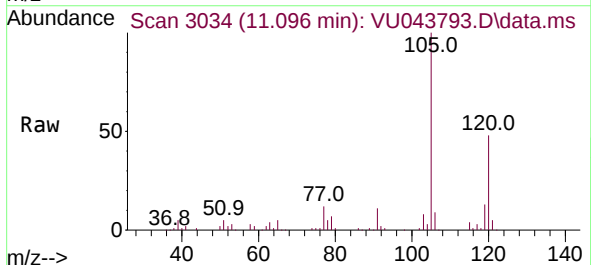
Instrument :
MSVOA_U
ClientSampled :

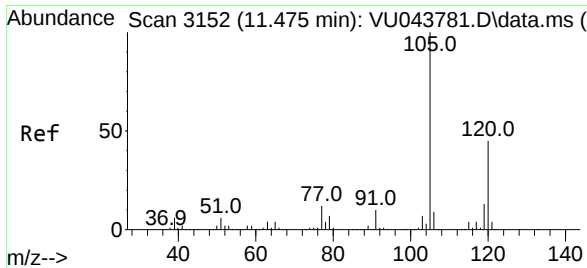
Tgt Ion: 75 Resp: 1509
Ion Ratio Lower Upper
75 100
110 0.0 27.9 41.9#
77 1186.5 25.9 38.9#



#62
1,3,5-Trimethylbenzene
Concen: 1.46 ug/L
RT: 11.096 min Scan# 3034
Delta R.T. 0.000 min
Lab File: VU043793.D
Acq: 17 May 2021 15:24

Tgt Ion:105 Resp: 83150
Ion Ratio Lower Upper
105 100
120 48.8 38.9 58.3

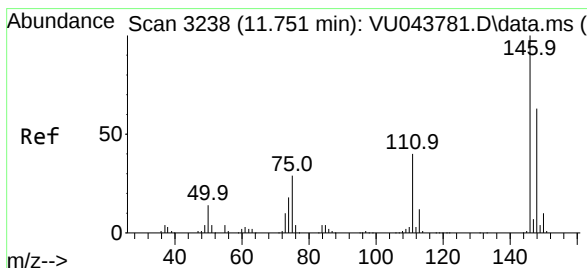
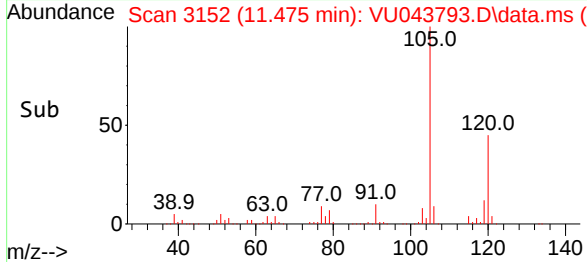
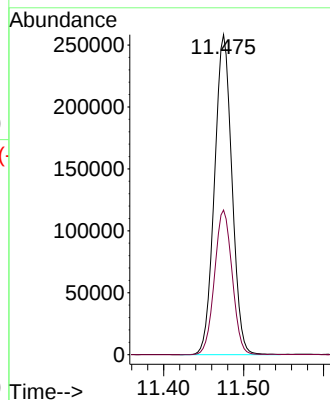
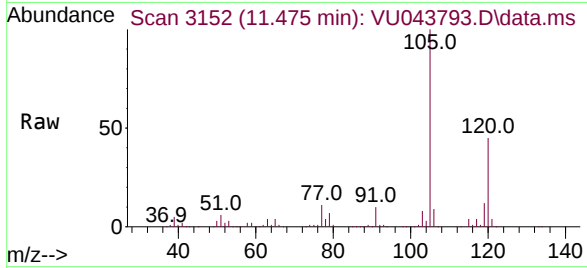




#63
1,2,4-Trimethylbenzene
Concen: 6.71 ug/L
RT: 11.475 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VU043793.D
Acq: 17 May 2021 15:24

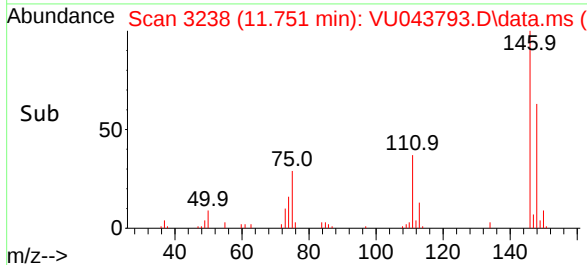
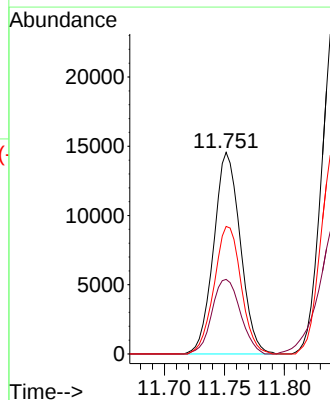
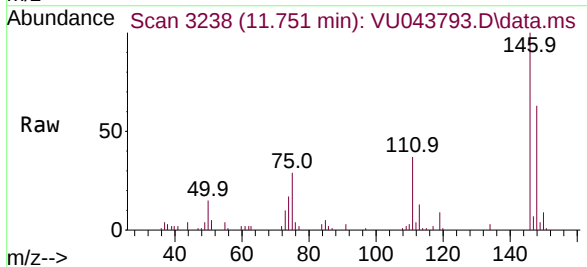
Instrument :
MSVOA_U
ClientSampled :

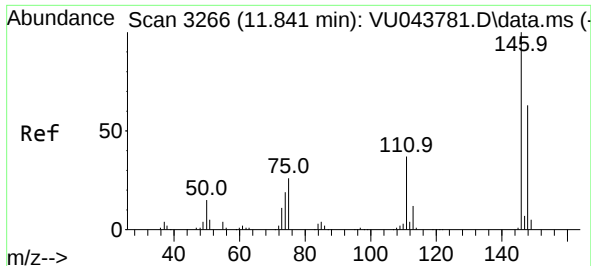
Tgt Ion:105 Resp: 391645
Ion Ratio Lower Upper
105 100
120 45.6 36.0 54.0



#64
1,3-Dichlorobenzene
Concen: 0.62 ug/L
RT: 11.751 min Scan# 3238
Delta R.T. 0.000 min
Lab File: VU043793.D
Acq: 17 May 2021 15:24

Tgt Ion:146 Resp: 22458
Ion Ratio Lower Upper
146 100
111 37.0 28.1 52.1
148 63.3 45.6 84.6

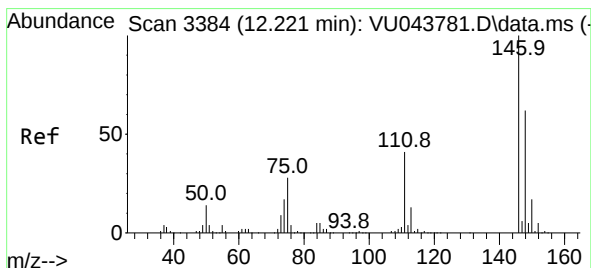
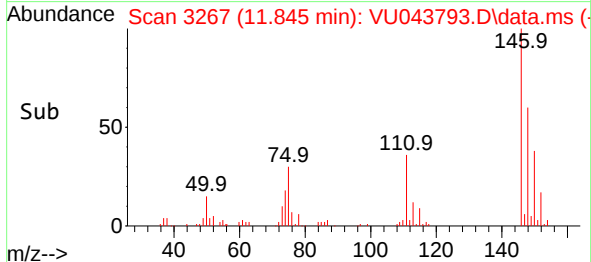
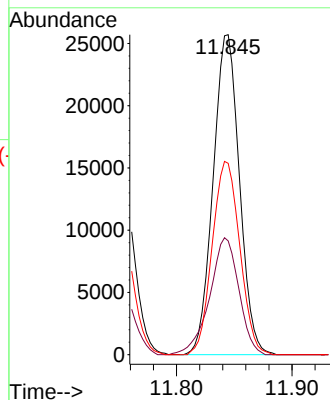
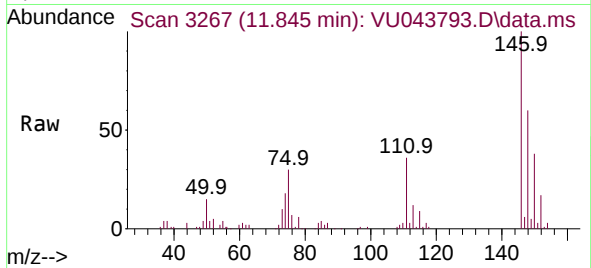




#65
1,4-Dichlorobenzene
Concen: 1.11 ug/L
RT: 11.845 min Scan# 3267
Delta R.T. 0.003 min
Lab File: VU043793.D
Acq: 17 May 2021 15:24

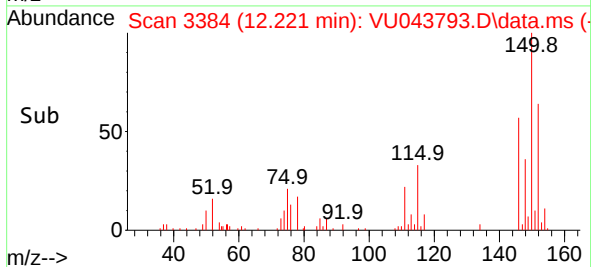
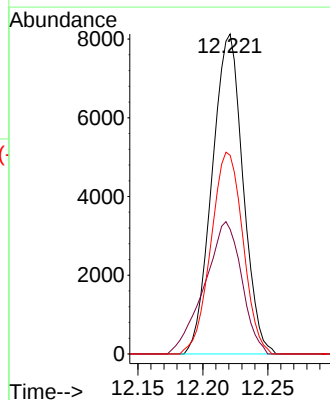
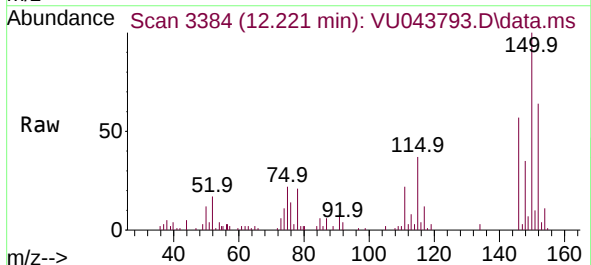
Instrument :
MSVOA_U
ClientSampled :

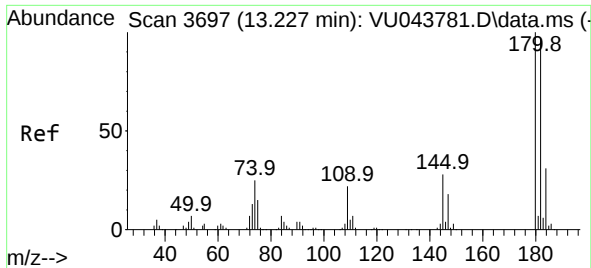
Tgt Ion:	146	Resp:	40695
Ion Ratio	Lower	Upper	
146	100		
111	35.6	27.0	50.2
148	59.8	45.0	83.6



#67
1,2-Dichlorobenzene
Concen: 0.38 ug/L
RT: 12.221 min Scan# 3384
Delta R.T. 0.003 min
Lab File: VU043793.D
Acq: 17 May 2021 15:24

Tgt Ion:	146	Resp:	13413
Ion Ratio	Lower	Upper	
146	100		
111	39.0	33.6	50.4
148	62.1	50.2	75.2

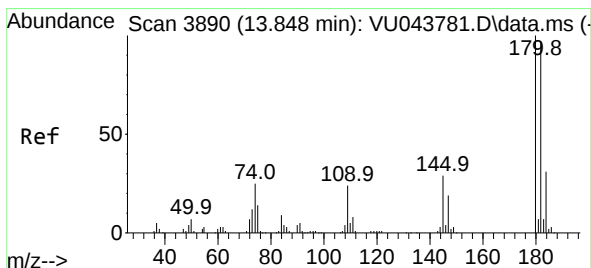
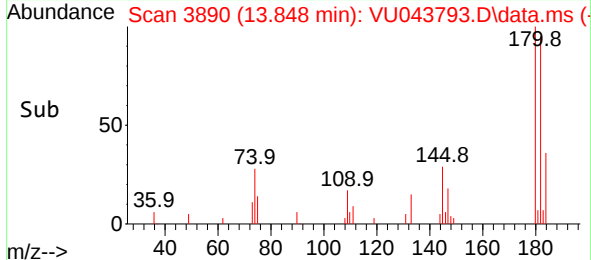
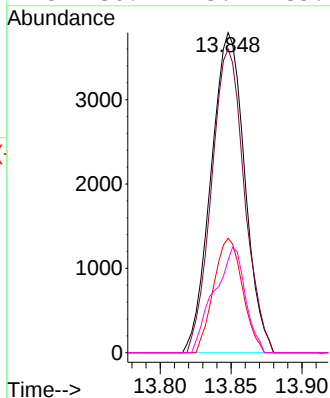
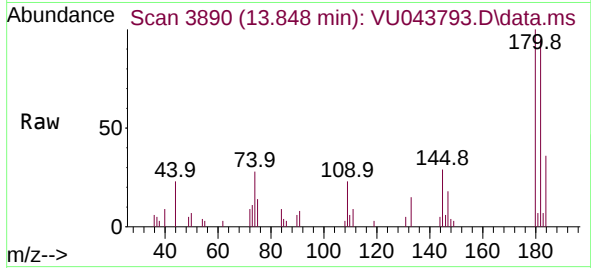




#69
 1,3,5-Trichlorobenzene
 Concen: 0.22 ug/L
 RT: 13.848 min Scan# 3890
 Delta R.T. 0.621 min
 Lab File: VU043793.D
 Acq: 17 May 2021 15:24

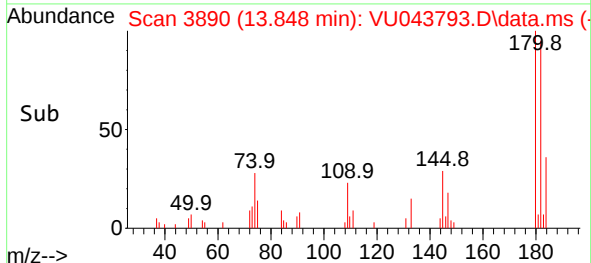
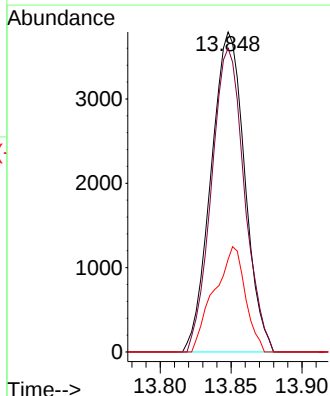
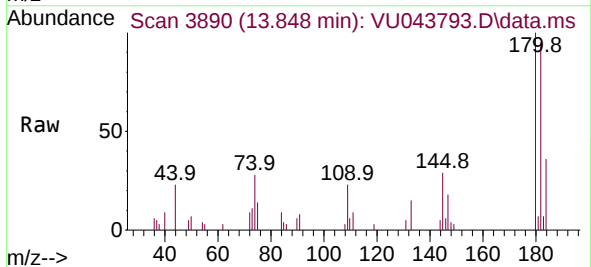
Instrument :
 MSVOA_U
 ClientSampled :

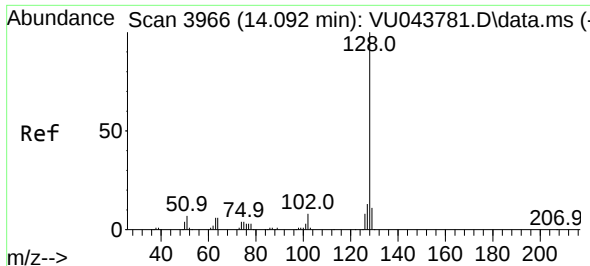
Tgt Ion:180	Resp:	6267
Ion Ratio	Lower	Upper
180	100	
182	92.5	78.2 117.2
184	30.6	24.8 37.2
145	30.4	23.4 35.2



#70
 1,2,4-trichlorobenzene
 Concen: 0.26 ug/L
 RT: 13.848 min Scan# 3890
 Delta R.T. 0.000 min
 Lab File: VU043793.D
 Acq: 17 May 2021 15:24

Tgt Ion:180	Resp:	6267
Ion Ratio	Lower	Upper
180	100	
182	92.5	76.9 115.3
145	30.4	23.0 34.4

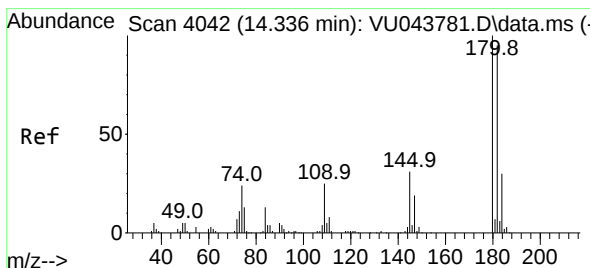
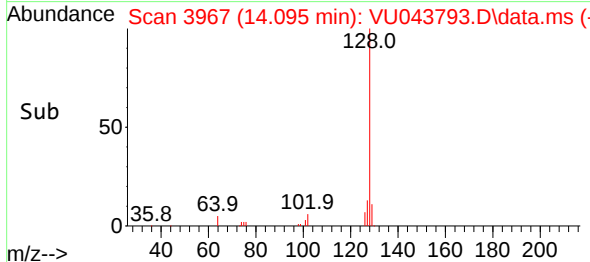
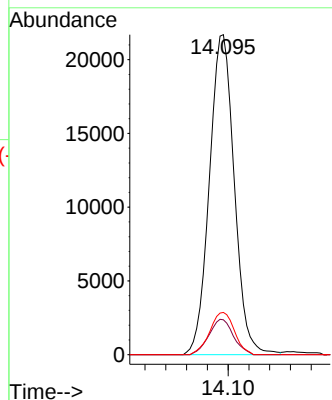
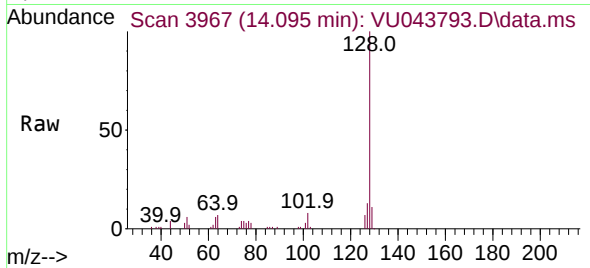




#71
Naphthalene
Concen: 0.85 ug/L
RT: 14.095 min Scan# 3967
Delta R.T. 0.003 min
Lab File: VU043793.D
Acq: 17 May 2021 15:24

Instrument :
MSVOA_U
ClientSampled :

Tgt Ion:128	Resp:	36049
Ion Ratio	Lower	Upper
128	100	
129	10.8	8.7 13.1
127	13.1	10.2 15.4



#72
1,2,3-Trichlorobenzene
Concen: 0.09 ug/L
RT: 14.337 min Scan# 4042
Delta R.T. 0.000 min
Lab File: VU043793.D
Acq: 17 May 2021 15:24

Tgt Ion:180	Resp:	2085
Ion Ratio	Lower	Upper
180	100	
182	92.0	77.0 115.4
145	32.1	24.6 36.8

