

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121521\
 Data File : VU046395.D
 Acq On : 15 Dec 2021 14:22
 Operator : SY/MD
 Sample : M4997-12
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 16 03:10:04 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Dec 16 02:25:11 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.253	114	145398	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.420	117	148850	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	86828	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.604	65	53372	44.562	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	89.120%
7) Chloroethane-d5	1.919	69	32838	35.709	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	71.420%
11) 1,1-Dichloroethene-d2	2.581	63	91138	42.387	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	84.780%
21) 2-Butanone-d5	4.649	46	94402	99.149	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	99.150%
24) Chloroform-d	5.067	84	85674	42.834	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	85.660%
26) 1,2-Dichloroethane-d4	5.706	65	58577	43.639	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.280%
32) Benzene-d6	5.732	84	160439	37.606	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	75.220%
36) 1,2-Dichloropropane-d6	6.694	67	54560	41.264	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	82.520%
41) Toluene-d8	7.899	98	137091	35.292	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	70.580%#
43) trans-1,3-Dichloroprop...	8.179	79	26118	40.920	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	81.840%
47) 2-Hexanone-d5	8.636	63	66328	105.802	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	105.800%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	92828	46.294	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.580%
66) 1,2-Dichlorobenzene-d4	12.192	152	65905	39.413	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	78.820%#
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.607	62	2032569	1424.711	ug/L	99
8) Chloroethane	1.941	64	103969	125.866	ug/L	99
12) 1,1-Dichloroethene	2.591	96	69118	68.751	ug/L #	84
13) Acetone	2.662	43	4994	4.197	ug/L	67
16) Methylene chloride	3.054	84	8203	6.858	ug/L	100
17) trans-1,2-Dichloroethene	3.362	96	149581	140.594	ug/L	99
19) 1,1-Dichloroethane	3.880	63	9662990	4995.247	ug/L	99
20) cis-1,2-Dichloroethene	4.674	96	9495869	8225.696	ug/L	94
27) 1,2-Dichloroethane	5.800	62	40449	25.361	ug/L	100
29) Cyclohexane	5.395	56	2186	1.261	ug/L	86
30) 1,1,1-Trichloroethane	5.321	97	477603	261.393	ug/L	100
31) Carbon tetrachloride	5.321	117	57683	37.187	ug/L	98
33) Benzene	5.777	78	47270	10.493	ug/L	100
34) Trichloroethene	6.546	95	441668	372.138	ug/L	97
35) Methylcyclohexane	6.767	83	2626	1.427	ug/L	98
39) cis-1,3-Dichloropropene	7.565	75	1531	0.853	ug/L #	60
42) Toluene	7.970	91	163767	33.877	ug/L	100
45) 1,1,2-Trichloroethane	8.401	97	20763	17.536	ug/L	97
46) Tetrachloroethene	8.555	164	49007	56.189	ug/L	95

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

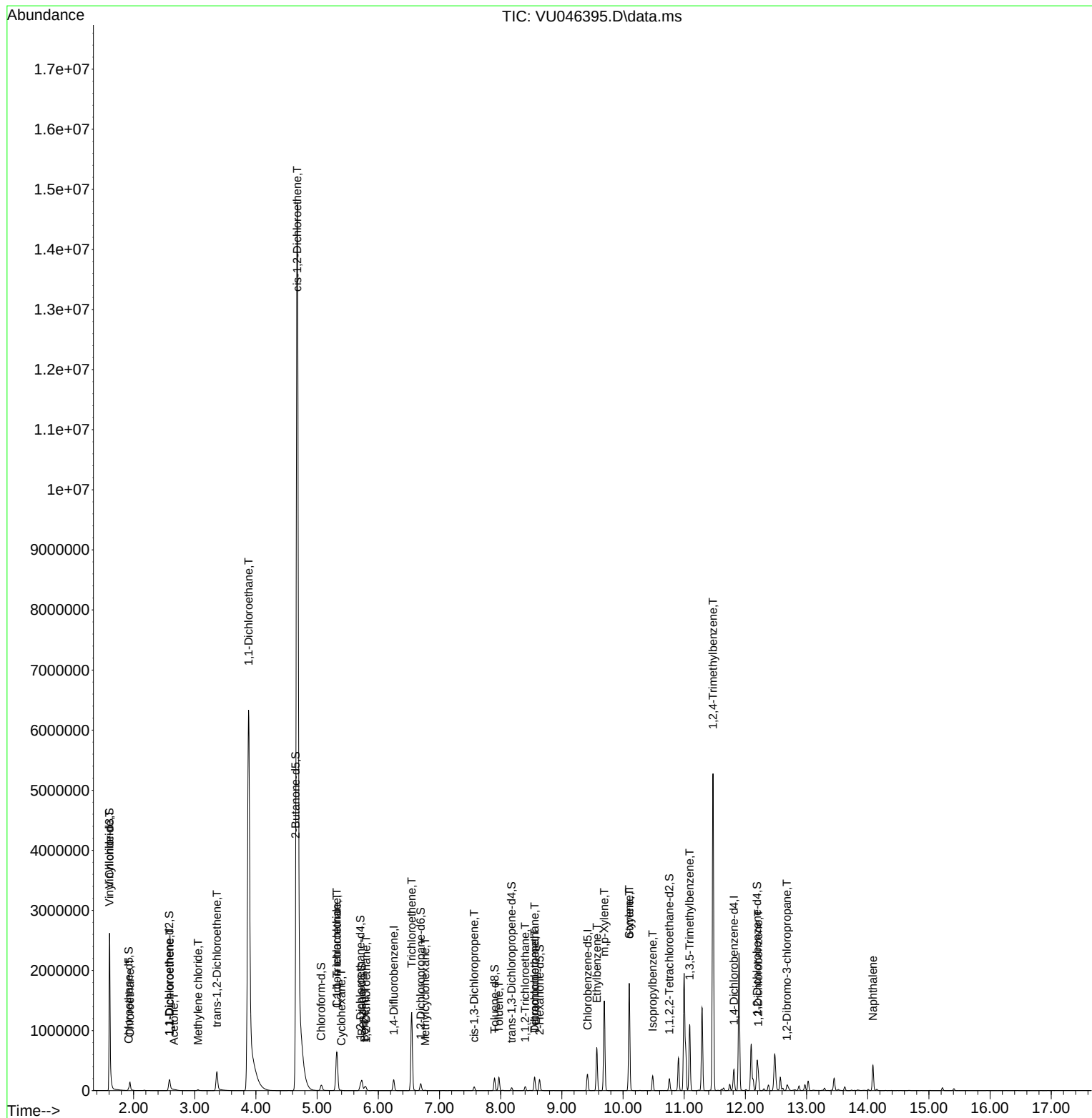
49) Dibromochloromethane	8.555	129	47377	38.105	ug/L #	10
52) Ethylbenzene	9.571	91	489968	94.179	ug/L	99
53) m,p-Xylene	9.693	106	418813	206.422	ug/L	100
54) o-xylene	10.102	106	459787	233.546	ug/L	100
55) Styrene	10.102	104	22817	6.788	ug/L #	1
61) Isopropylbenzene	10.484	105	156861	27.766	ug/L	99
62) 1,3,5-Trimethylbenzene	11.089	105	594682	126.291	ug/L	100
63) 1,2,4-Trimethylbenzene	11.471	105	2933040	622.577	ug/L	99
67) 1,2-Dichlorobenzene	12.211	146	75555	27.959	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.677	75	1076	2.122	ug/L #	3
71) Naphthalene	14.086	128	314069	52.016	ug/L	100

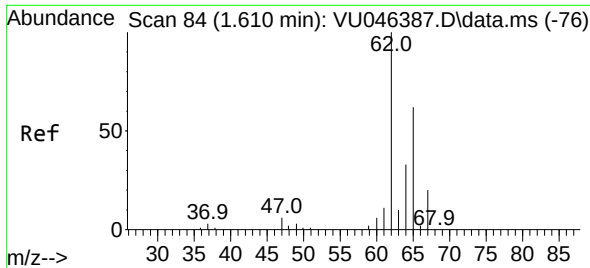
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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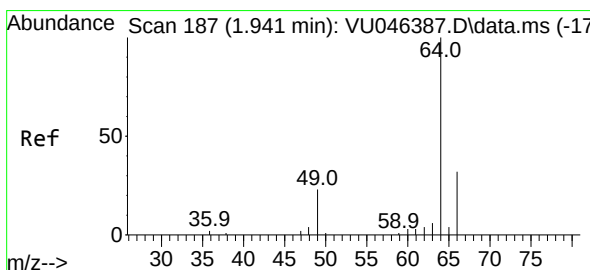
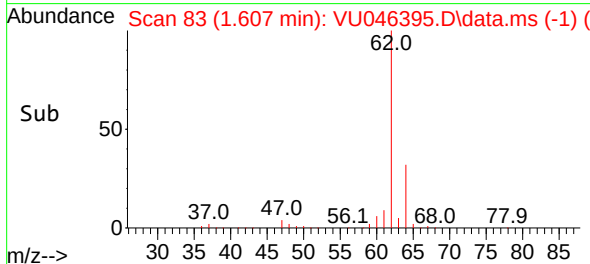
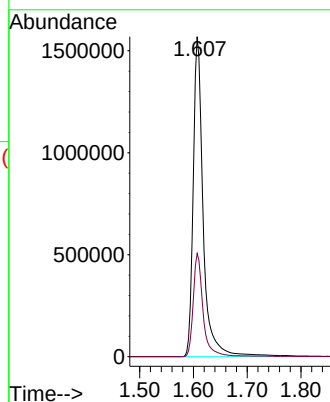
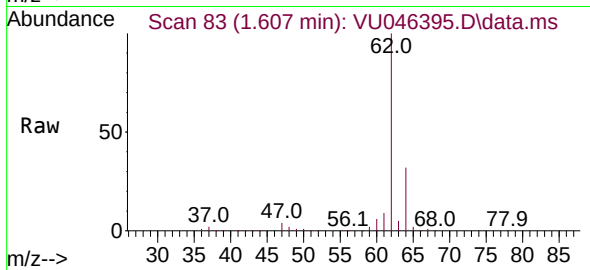




#5
 Vinyl chloride
 Concen: 1424.711 ug/L
 RT: 1.607 min Scan# 84
 Delta R.T. -0.003 min
 Lab File: VU046395.D
 Acq: 15 Dec 2021 14:22

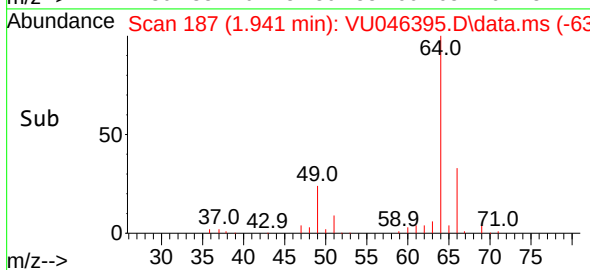
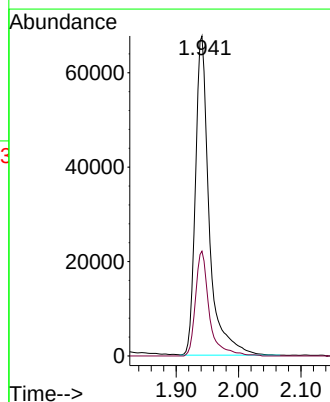
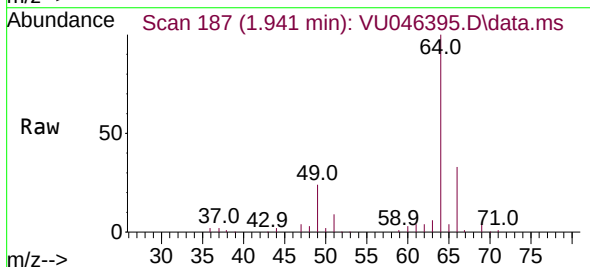
Instrument :
 MSVOA_U
 ClientSampleId :

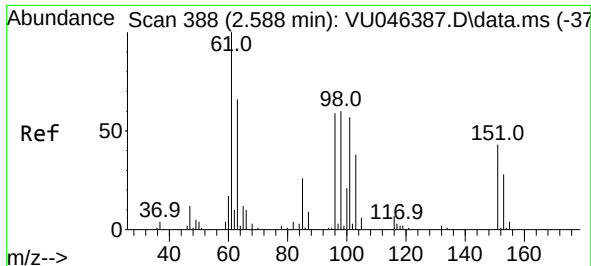
Tgt Ion: 62 Resp: 2032569
 Ion Ratio Lower Upper
 62 100
 64 32.2 22.9 42.5



#8
 Chloroethane
 Concen: 125.866 ug/L
 RT: 1.941 min Scan# 187
 Delta R.T. -0.000 min
 Lab File: VU046395.D
 Acq: 15 Dec 2021 14:22

Tgt Ion: 64 Resp: 103969
 Ion Ratio Lower Upper
 64 100
 66 32.7 22.5 41.9





#12

1,1-Dichloroethene

Concen: 68.751 ug/L

RT: 2.591 min Scan# 389

Delta R.T. 0.003 min

Lab File: VU046395.D

Acq: 15 Dec 2021 14:22

Instrument :

MSVOA_U

ClientSampleId :

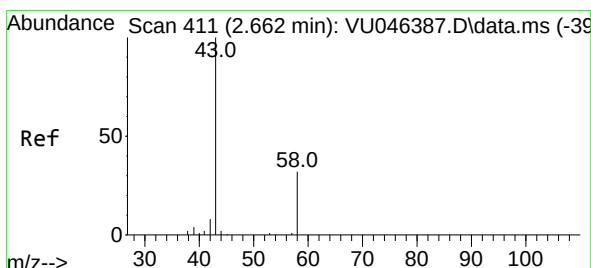
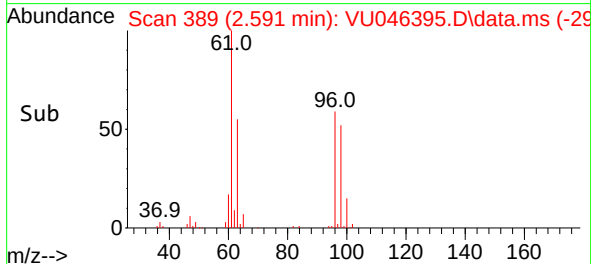
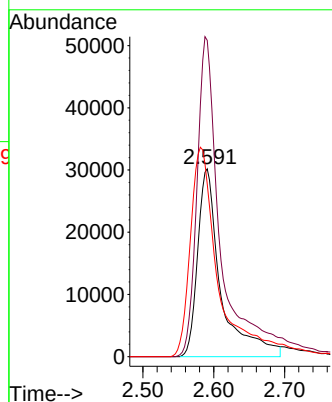
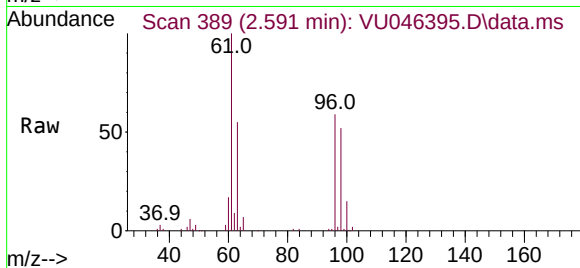
Tgt Ion: 96 Resp: 69118

Ion Ratio Lower Upper

96 100

61 168.3 118.6 220.2

63 91.9 93.0 172.8#



#13

Acetone

Concen: 4.197 ug/L

RT: 2.662 min Scan# 411

Delta R.T. -0.000 min

Lab File: VU046395.D

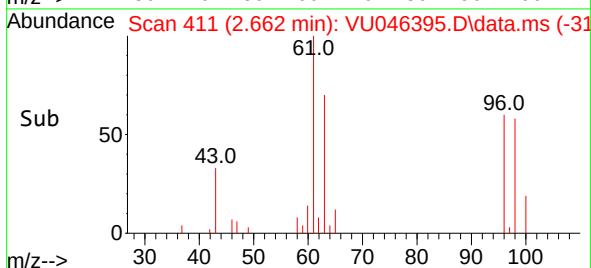
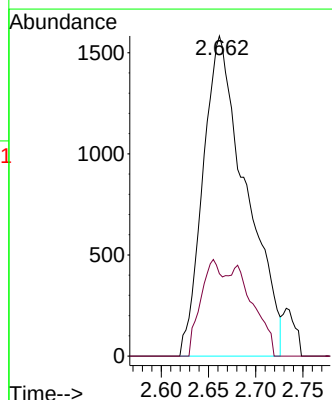
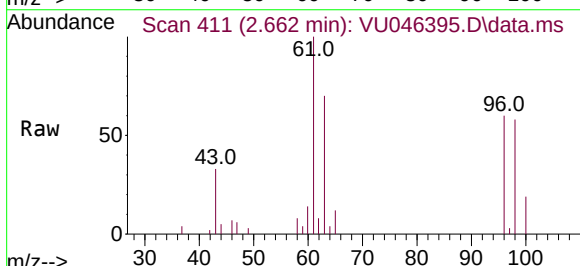
Acq: 15 Dec 2021 14:22

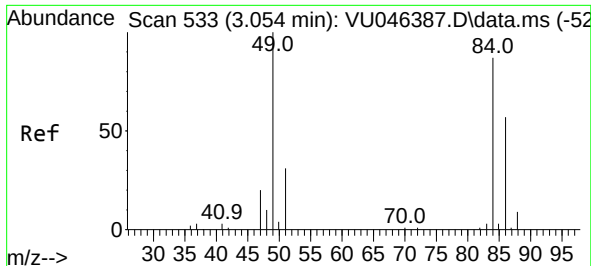
Tgt Ion: 43 Resp: 4994

Ion Ratio Lower Upper

43 100

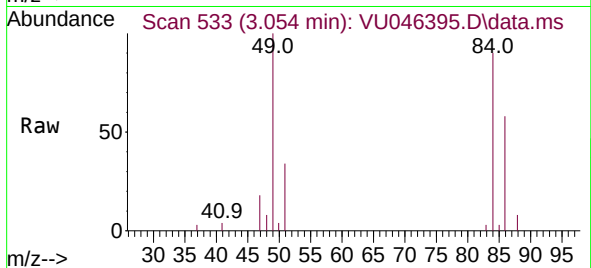
58 14.6 0.0 66.8



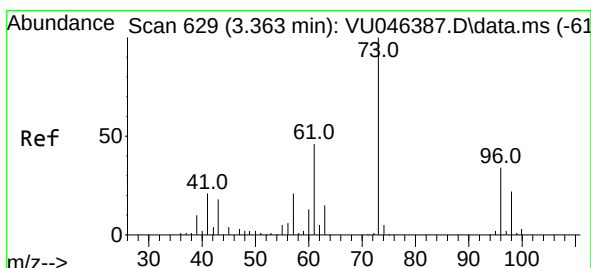
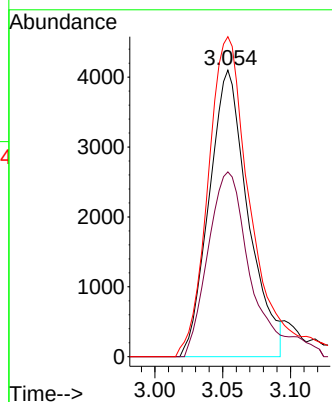
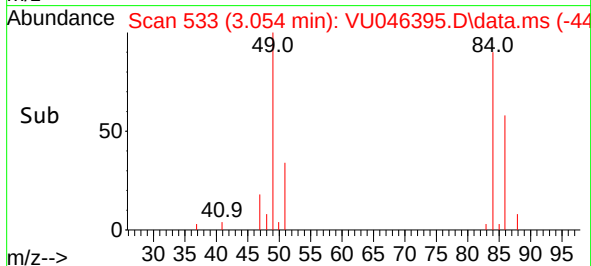


#16
Methylene chloride
Concen: 6.858 ug/L
RT: 3.054 min Scan# 511
Delta R.T. -0.000 min
Lab File: VU046395.D
Acq: 15 Dec 2021 14:22

Instrument :
MSVOA_U
ClientSampleId :

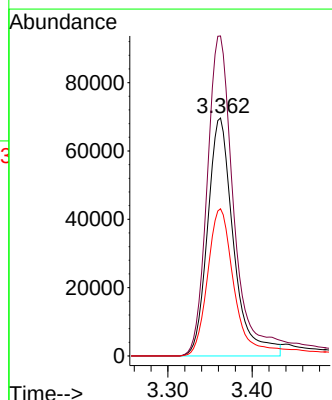
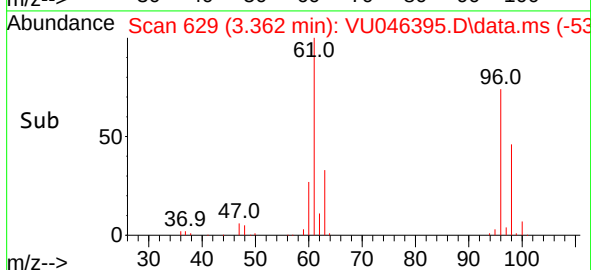
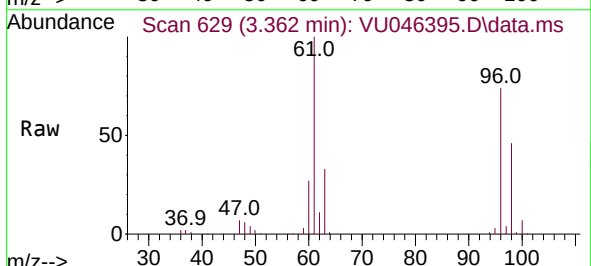


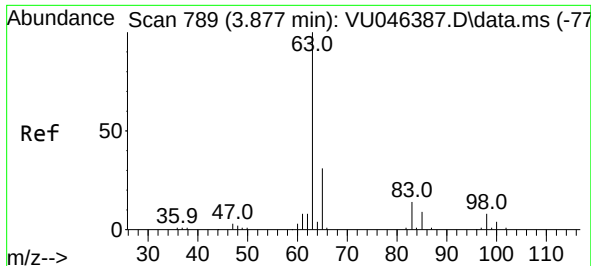
Tgt Ion: 84 Resp: 8203
Ion Ratio Lower Upper
84 100
86 64.5 44.7 83.1
49 111.7 78.4 145.6



#17
trans-1,2-Dichloroethene
Concen: 140.594 ug/L
RT: 3.362 min Scan# 629
Delta R.T. -0.000 min
Lab File: VU046395.D
Acq: 15 Dec 2021 14:22

Tgt Ion: 96 Resp: 149581
Ion Ratio Lower Upper
96 100
61 134.5 94.6 175.6
98 61.9 44.0 81.8





#19

1,1-Dichloroethane

Concen: 4995.247 ug/L

RT: 3.880 min Scan# 79

Delta R.T. 0.003 min

Lab File: VU046395.D

Acq: 15 Dec 2021 14:22

Instrument :

MSVOA_U

ClientSampleId :

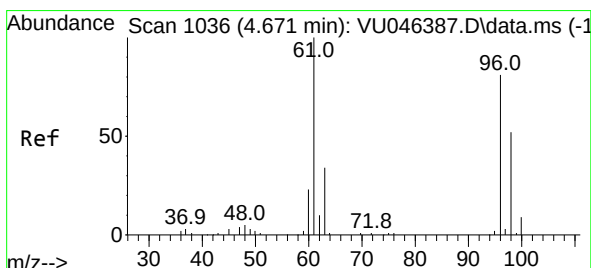
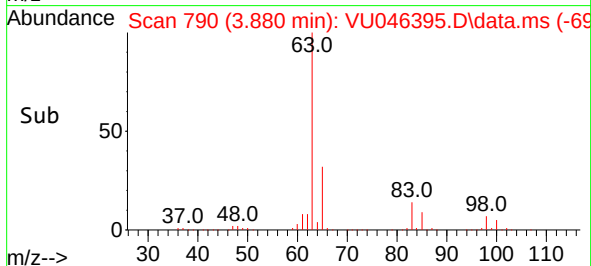
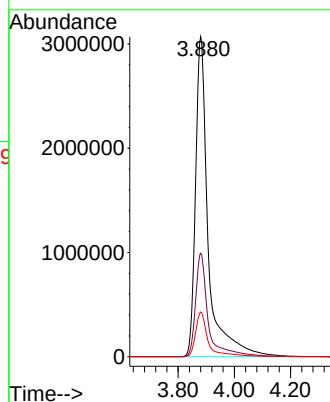
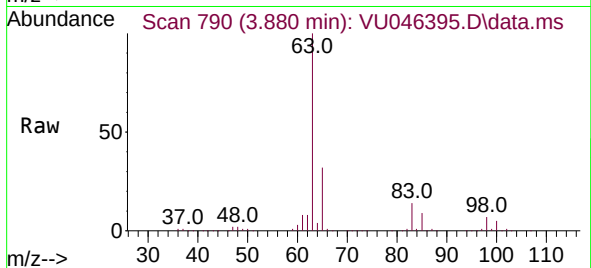
Tgt Ion: 63 Resp: 9662990

Ion Ratio Lower Upper

63 100

65 32.3 22.8 42.4

83 14.0 9.6 17.8



#20

cis-1,2-Dichloroethene

Concen: 8225.696 ug/L

RT: 4.674 min Scan# 1037

Delta R.T. 0.003 min

Lab File: VU046395.D

Acq: 15 Dec 2021 14:22

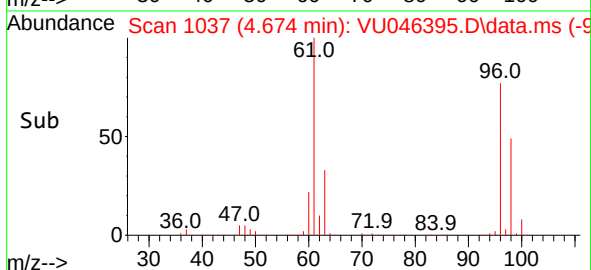
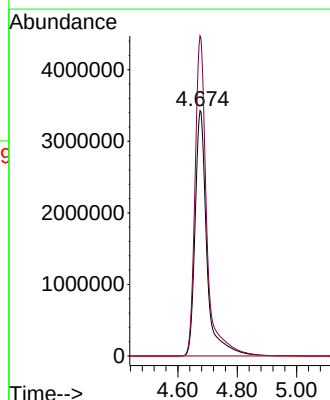
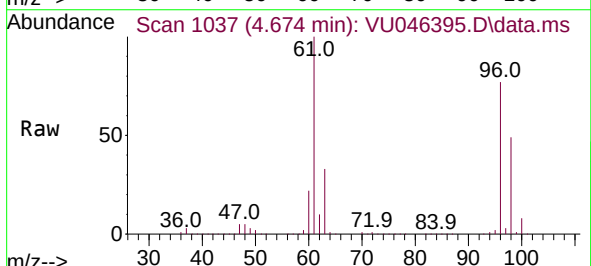
Tgt Ion: 96 Resp: 9495869

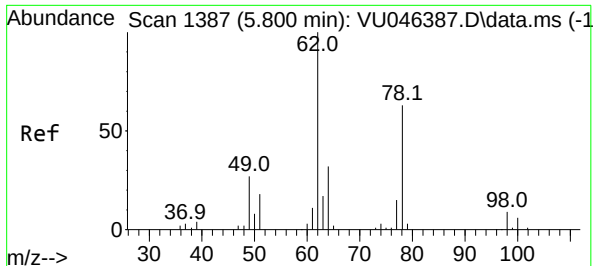
Ion Ratio Lower Upper

96 100

61 130.5 86.8 161.2

68 0.0 0.0 0.0

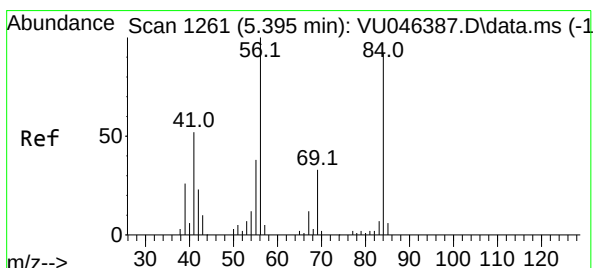
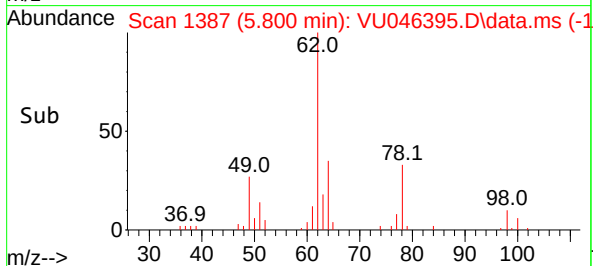
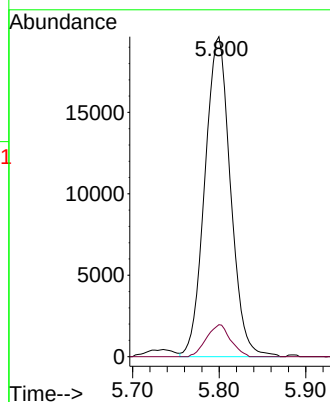
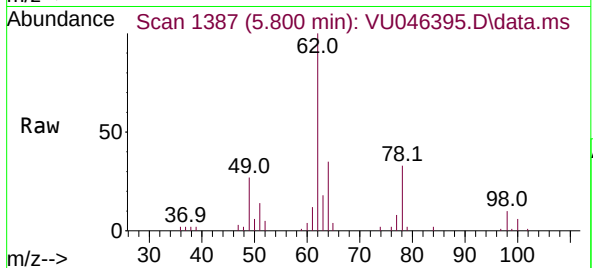




#27
1,2-Dichloroethane
Concen: 25.361 ug/L
RT: 5.800 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU046395.D
Acq: 15 Dec 2021 14:22

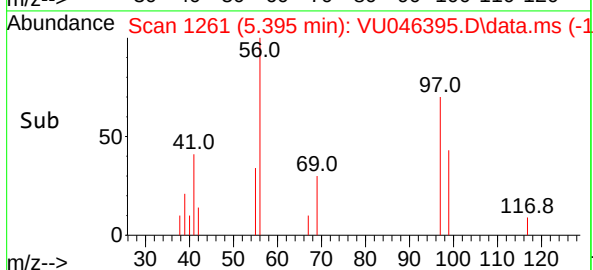
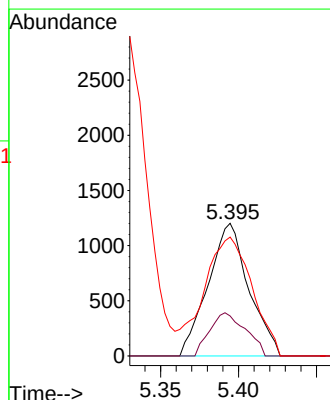
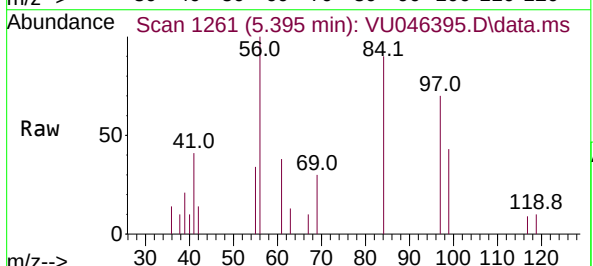
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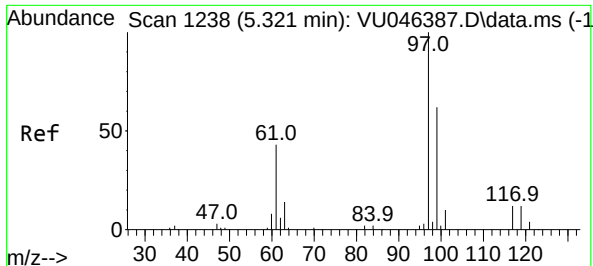
Tgt Ion: 62 Resp: 40449
Ion Ratio Lower Upper
62 100
98 10.0 7.9 11.9



#29
Cyclohexane
Concen: 1.261 ug/L
RT: 5.395 min Scan# 1261
Delta R.T. -0.000 min
Lab File: VU046395.D
Acq: 15 Dec 2021 14:22

Tgt Ion: 56 Resp: 2186
Ion Ratio Lower Upper
56 100
69 28.6 25.2 37.8
84 107.2 73.3 109.9





#30

1,1,1-Trichloroethane

Concen: 261.393 ug/L

RT: 5.321 min Scan# 1238

Delta R.T. -0.000 min

Lab File: VU046395.D

Acq: 15 Dec 2021 14:22

Instrument :

MSVOA_U

ClientSampleId :

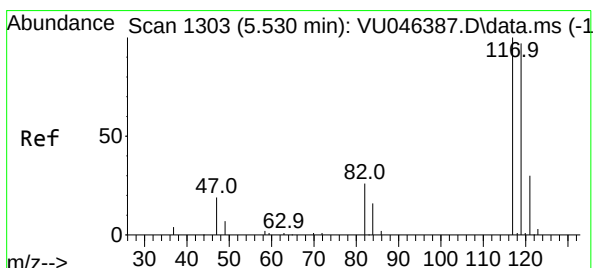
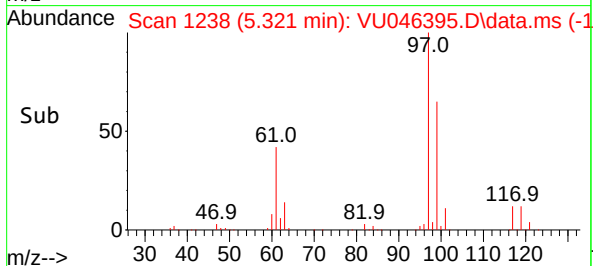
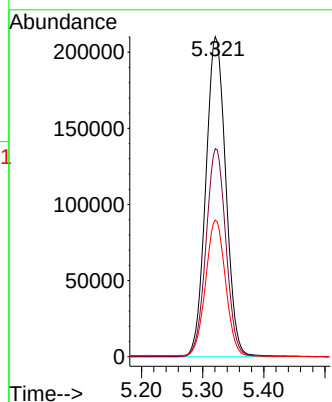
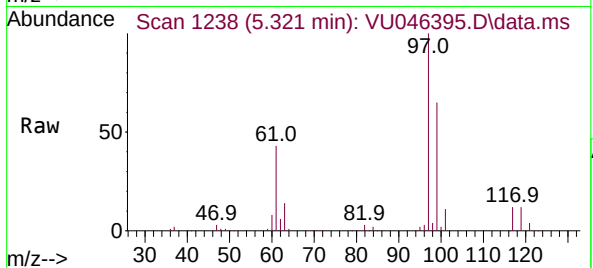
Tgt Ion: 97 Resp: 477603

Ion Ratio Lower Upper

97 100

99 64.8 51.8 77.6

61 42.6 34.4 51.6



#31

Carbon tetrachloride

Concen: 37.187 ug/L

RT: 5.321 min Scan# 1238

Delta R.T. -0.209 min

Lab File: VU046395.D

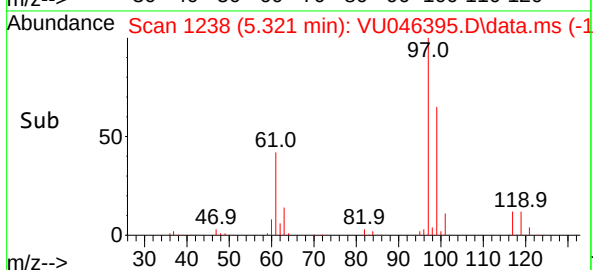
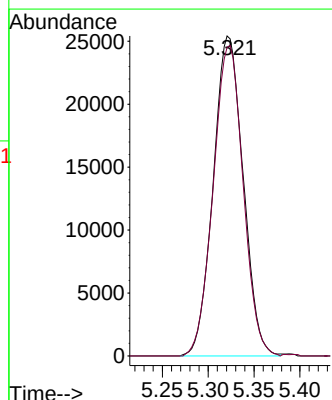
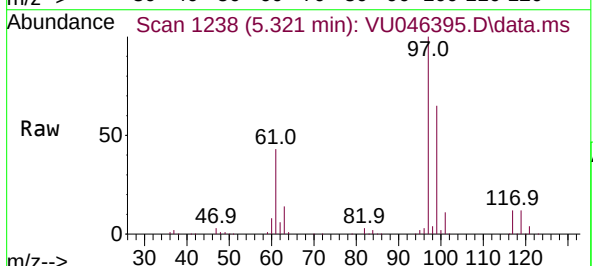
Acq: 15 Dec 2021 14:22

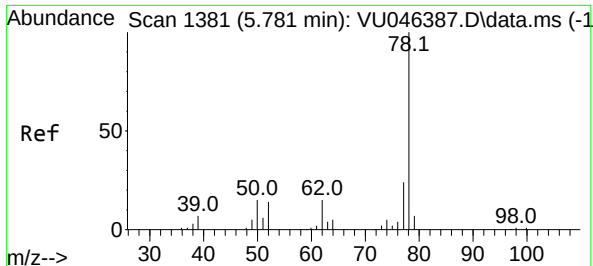
Tgt Ion: 117 Resp: 57683

Ion Ratio Lower Upper

117 100

119 97.0 75.7 113.5





#33

Benzene

Concen: 10.493 ug/L

RT: 5.777 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU046395.D

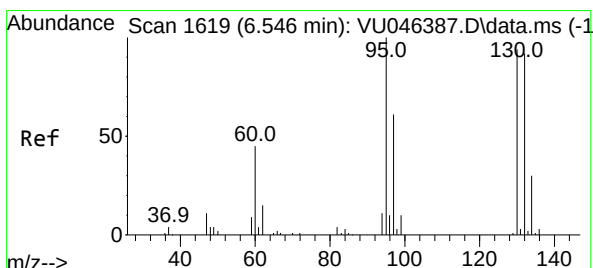
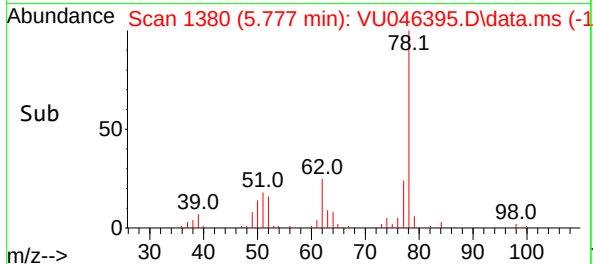
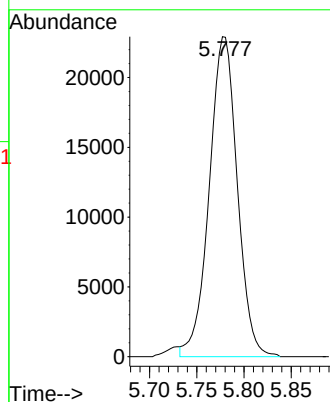
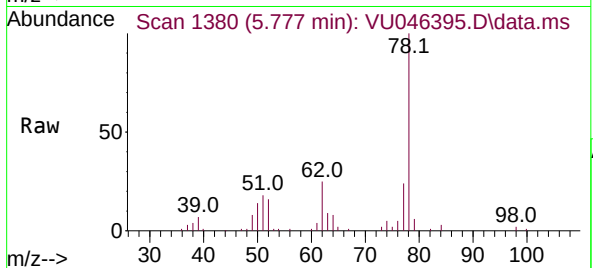
Acq: 15 Dec 2021 14:22

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 78 Resp: 47270



#34

Trichloroethene

Concen: 372.138 ug/L

RT: 6.546 min Scan# 1619

Delta R.T. -0.000 min

Lab File: VU046395.D

Acq: 15 Dec 2021 14:22

Tgt Ion: 95 Resp: 441668

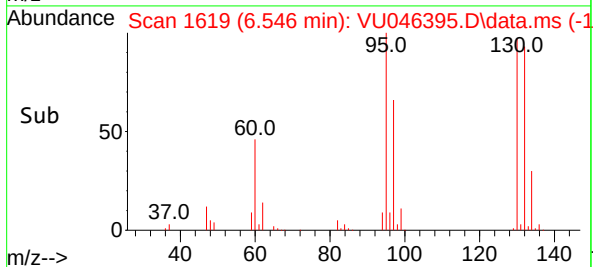
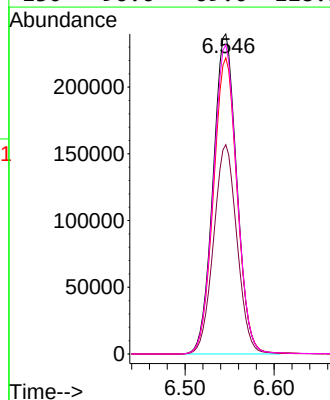
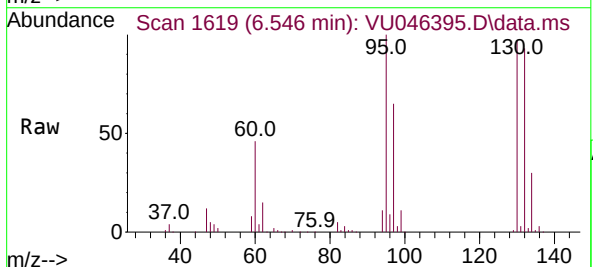
Ion Ratio Lower Upper

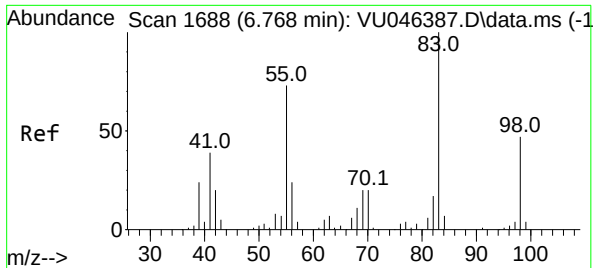
95 100

97 65.4 44.1 81.9

132 92.6 66.8 124.0

130 96.6 69.0 128.1

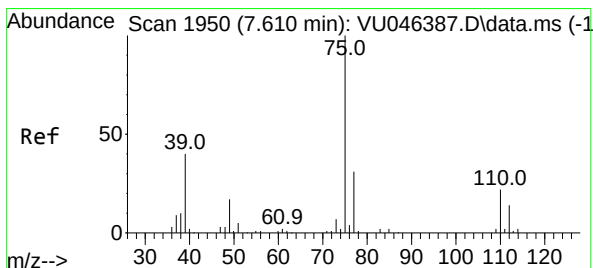
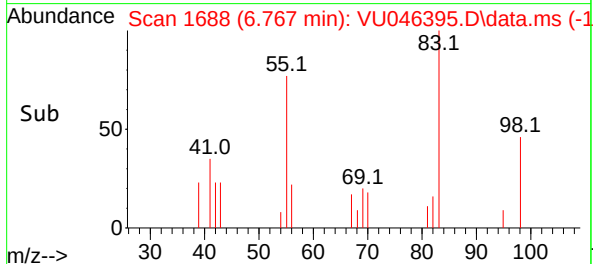
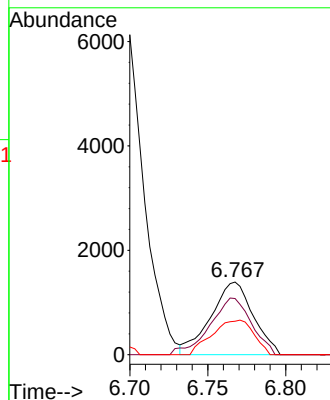
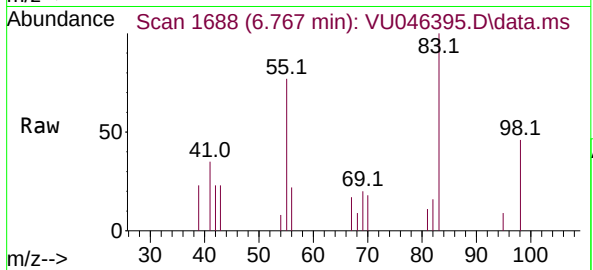




#35
Methylcyclohexane
Concen: 1.427 ug/L
RT: 6.767 min Scan# 1
Delta R.T. -0.000 min
Lab File: VU046395.D
Acq: 15 Dec 2021 14:22

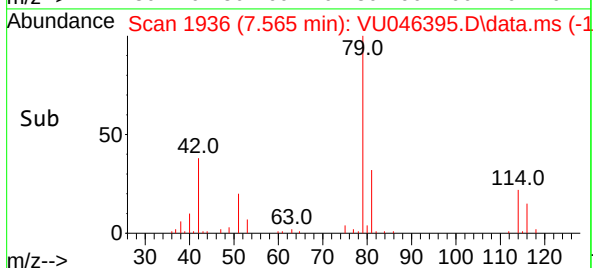
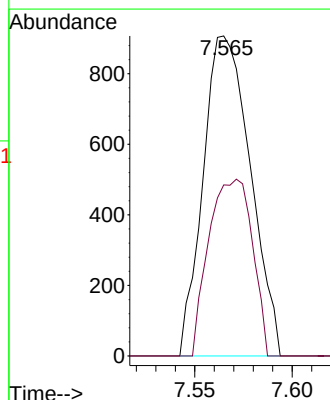
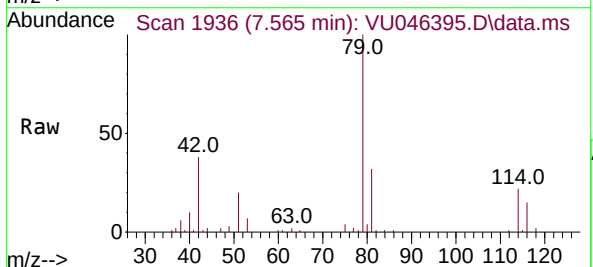
Instrument :
MSVOA_U
ClientSampleId :

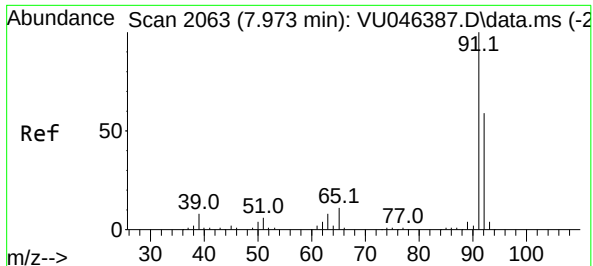
Tgt Ion: 83	Resp: 2626
Ion Ratio	Lower Upper
83 100	
55 73.3	57.8 86.6
98 46.7	38.4 57.6



#39
cis-1,3-Dichloropropene
Concen: 0.853 ug/L
RT: 7.565 min Scan# 1936
Delta R.T. -0.045 min
Lab File: VU046395.D
Acq: 15 Dec 2021 14:22

Tgt Ion: 75	Resp: 1531
Ion Ratio	Lower Upper
75 100	
77 53.5	21.8 40.6#





#42

Toluene

Concen: 33.877 ug/L

RT: 7.970 min Scan# 2063

Delta R.T. -0.003 min

Lab File: VU046395.D

Acq: 15 Dec 2021 14:22

Instrument :

MSVOA_U

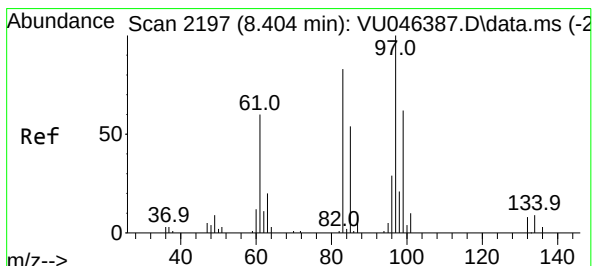
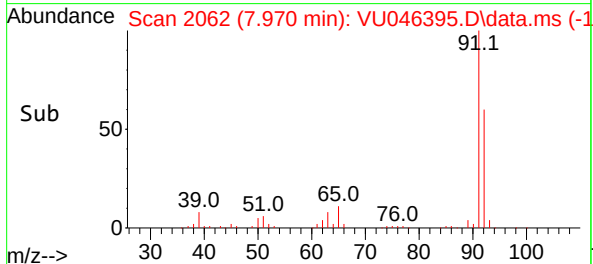
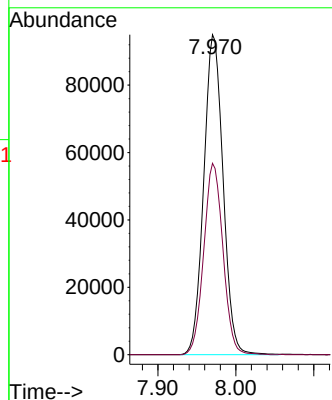
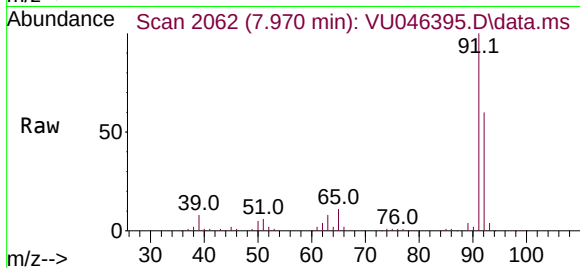
ClientSampleId :

Tgt Ion: 91 Resp: 163767

Ion Ratio Lower Upper

91 100

92 59.8 41.9 77.7



#45

1,1,2-Trichloroethane

Concen: 17.536 ug/L

RT: 8.401 min Scan# 2196

Delta R.T. -0.003 min

Lab File: VU046395.D

Acq: 15 Dec 2021 14:22

Tgt Ion: 97 Resp: 20763

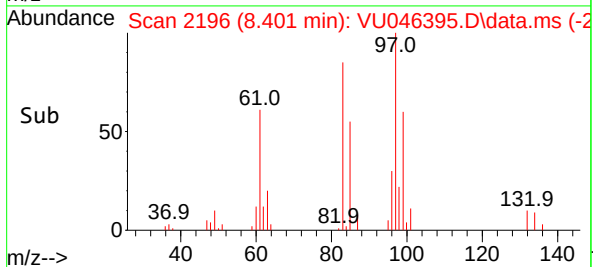
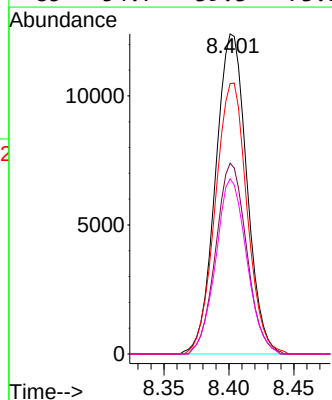
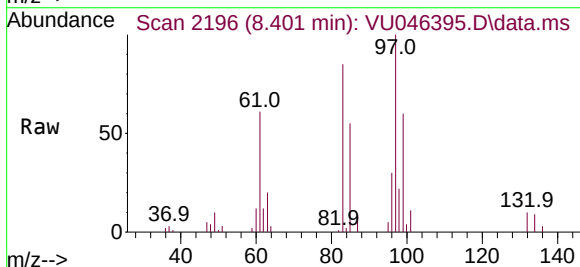
Ion Ratio Lower Upper

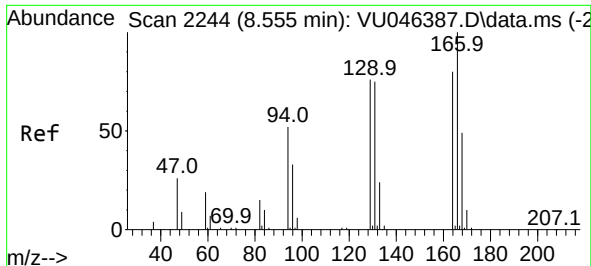
97 100

99 59.6 44.7 82.9

83 84.5 60.2 111.8

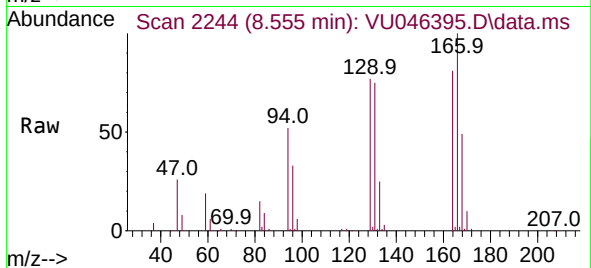
85 54.7 39.3 73.1



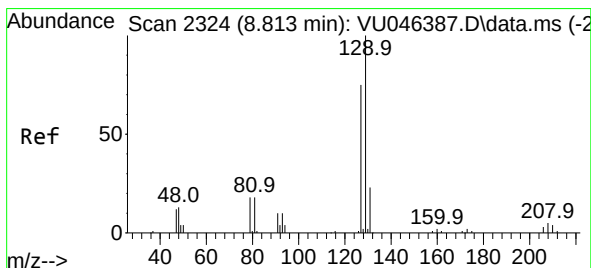
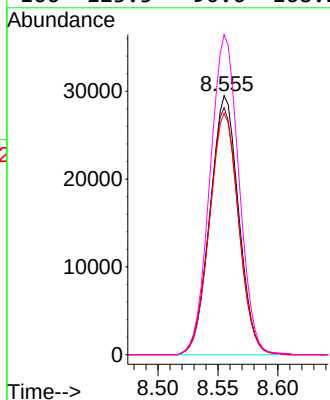
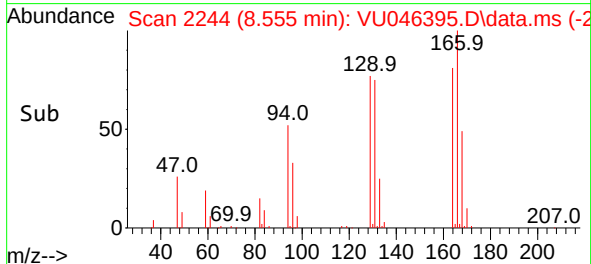


#46
Tetrachloroethene
Concen: 56.189 ug/L
RT: 8.555 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU046395.D
Acq: 15 Dec 2021 14:22

Instrument :
MSVOA_U
ClientSampleId :

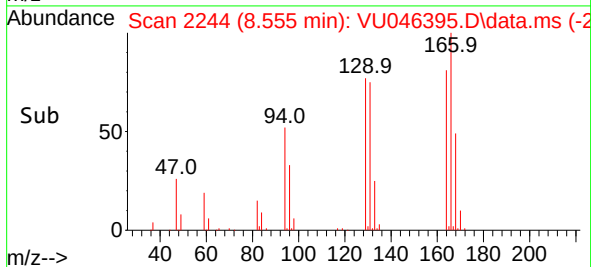
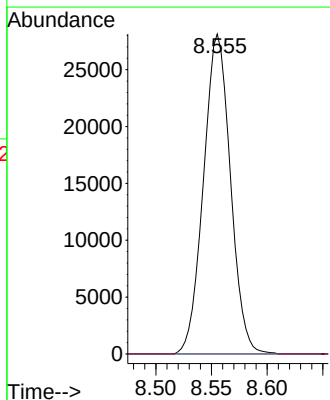
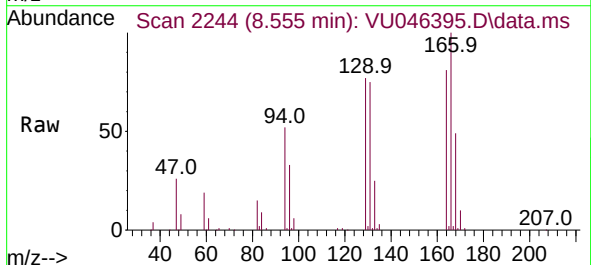


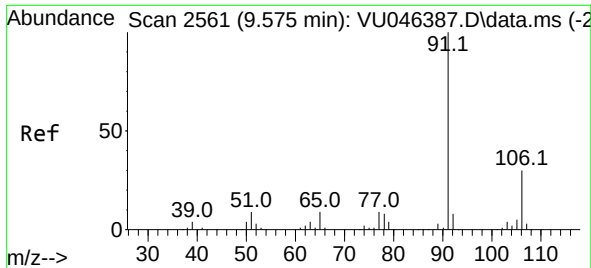
Tgt Ion:164 Resp: 49007
Ion Ratio Lower Upper
164 100
129 95.4 71.1 132.1
131 93.2 67.8 126.0
166 123.5 90.6 168.2



#49
Dibromochloromethane
Concen: 38.105 ug/L
RT: 8.555 min Scan# 2244
Delta R.T. -0.257 min
Lab File: VU046395.D
Acq: 15 Dec 2021 14:22

Tgt Ion:129 Resp: 47377
Ion Ratio Lower Upper
129 100
127 0.0 55.6 103.4#

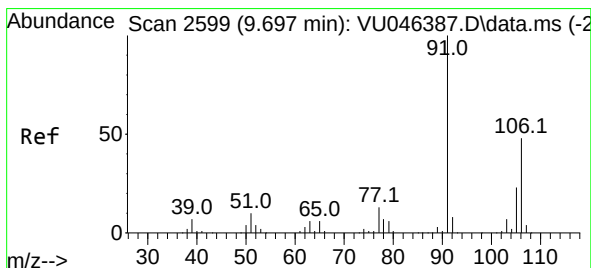
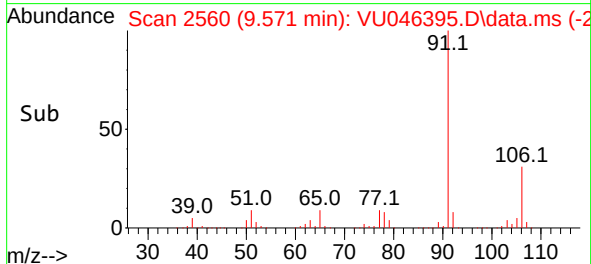
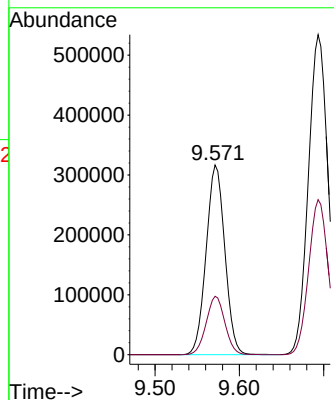
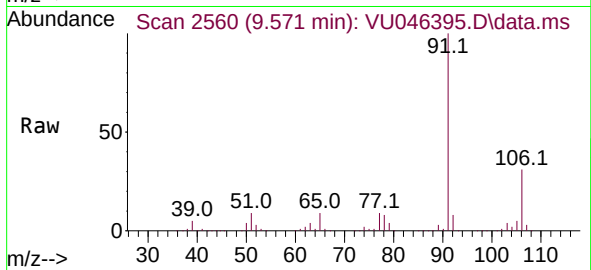




#52
Ethylbenzene
Concen: 94.179 ug/L
RT: 9.571 min Scan# 2561
Delta R.T. -0.003 min
Lab File: VU046395.D
Acq: 15 Dec 2021 14:22

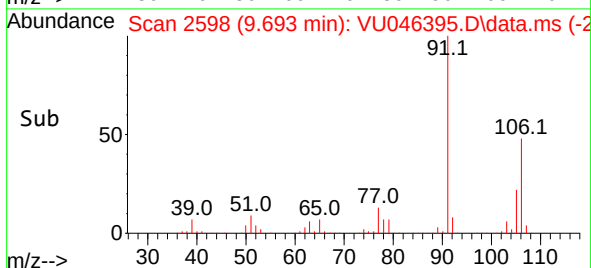
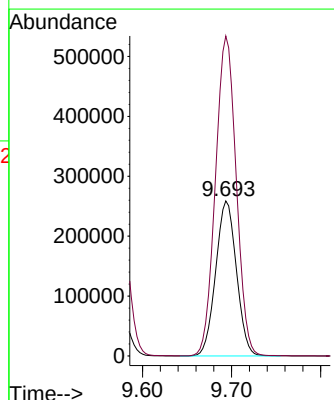
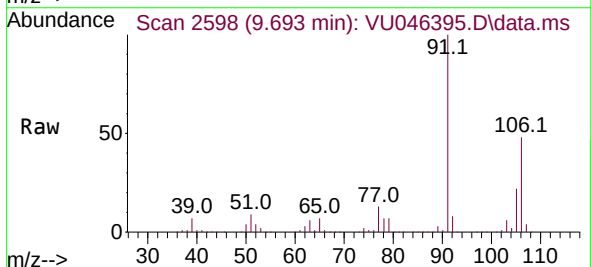
Instrument :
MSVOA_U
ClientSampleId :

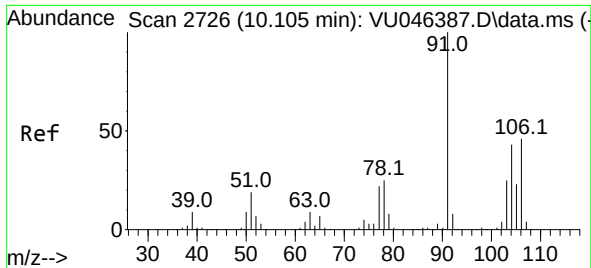
Tgt Ion: 91 Resp: 489968
Ion Ratio Lower Upper
91 100
106 30.8 21.1 39.3



#53
m,p-Xylene
Concen: 206.422 ug/L
RT: 9.693 min Scan# 2598
Delta R.T. -0.003 min
Lab File: VU046395.D
Acq: 15 Dec 2021 14:22

Tgt Ion:106 Resp: 418813
Ion Ratio Lower Upper
106 100
91 206.4 144.3 268.1

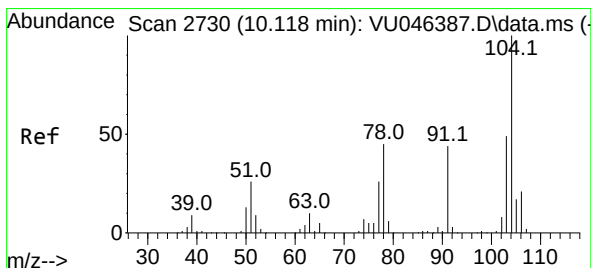
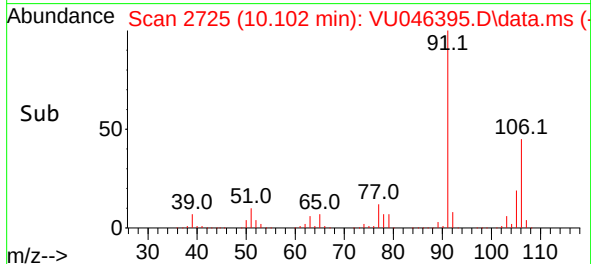
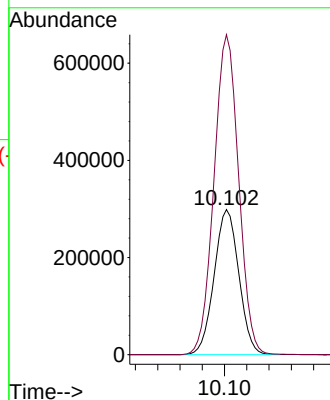
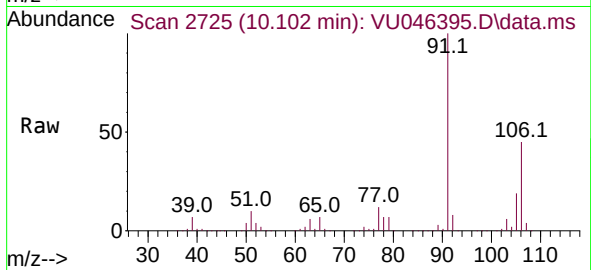




#54
o-xylene
Concen: 233.546 ug/L
RT: 10.102 min Scan# 2725
Delta R.T. -0.003 min
Lab File: VU046395.D
Acq: 15 Dec 2021 14:22

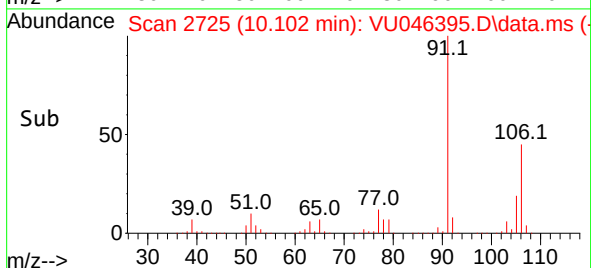
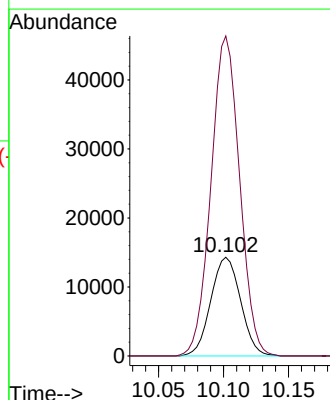
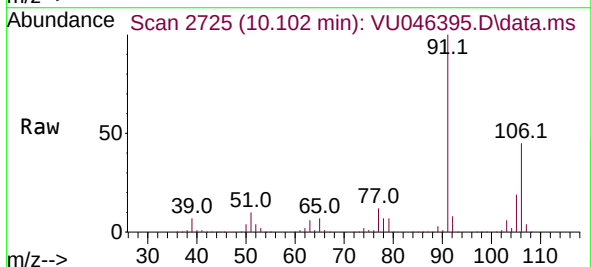
Instrument :
MSVOA_U
ClientSampleId :

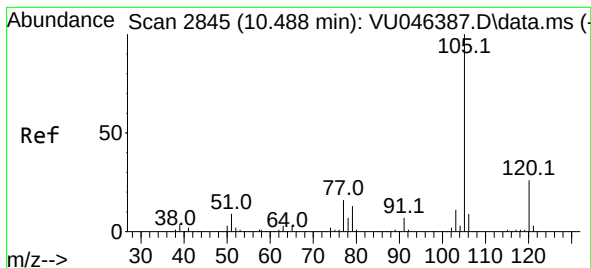
Tgt Ion:106 Resp: 459787
Ion Ratio Lower Upper
106 100
91 220.4 154.2 286.4



#55
Styrene
Concen: 6.788 ug/L
RT: 10.102 min Scan# 2725
Delta R.T. -0.016 min
Lab File: VU046395.D
Acq: 15 Dec 2021 14:22

Tgt Ion:104 Resp: 22817
Ion Ratio Lower Upper
104 100
78 324.2 32.6 60.5#





#61

Isopropylbenzene

Concen: 27.766 ug/L

RT: 10.484 min Scan# 21

Delta R.T. -0.003 min

Lab File: VU046395.D

Acq: 15 Dec 2021 14:22

Instrument :

MSVOA_U

ClientSampleId :

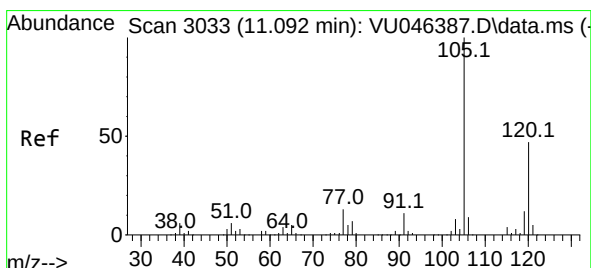
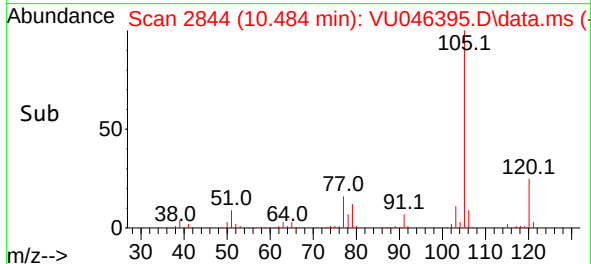
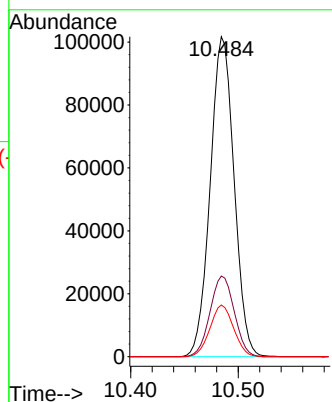
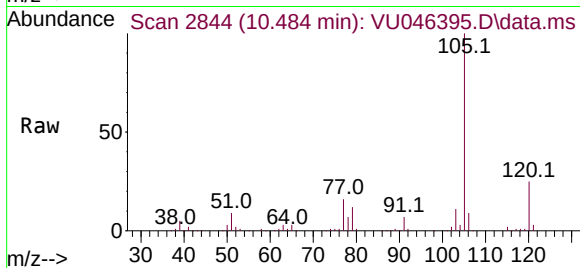
Tgt Ion:105 Resp: 156861

Ion Ratio Lower Upper

105 100

120 25.6 20.7 31.1

77 16.0 12.2 18.4



#62

1,3,5-Trimethylbenzene

Concen: 126.291 ug/L

RT: 11.089 min Scan# 3032

Delta R.T. -0.003 min

Lab File: VU046395.D

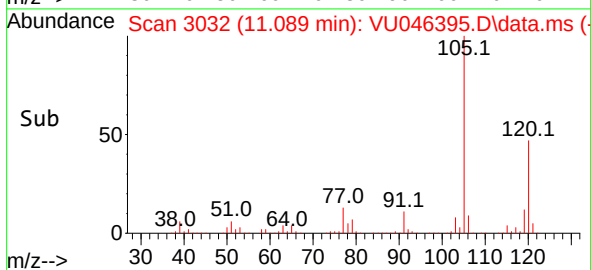
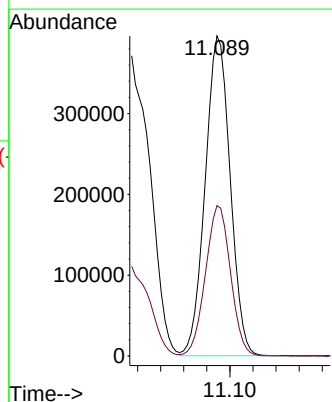
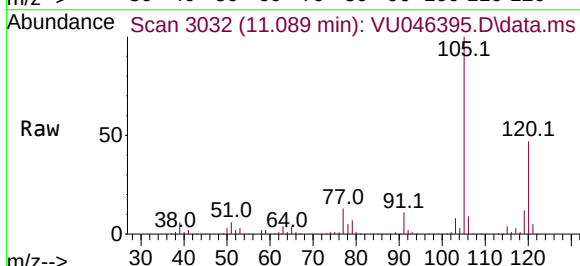
Acq: 15 Dec 2021 14:22

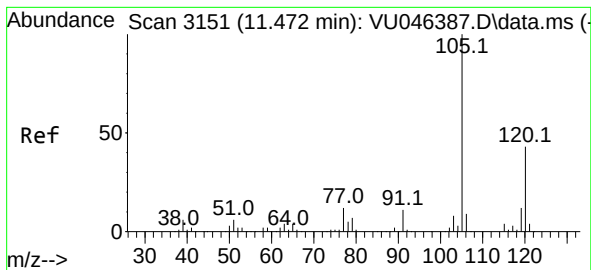
Tgt Ion:105 Resp: 594682

Ion Ratio Lower Upper

105 100

120 47.2 37.8 56.6





#63

1,2,4-Trimethylbenzene

Concen: 622.577 ug/L

RT: 11.471 min Scan# 3151

Delta R.T. -0.000 min

Lab File: VU046395.D

Acq: 15 Dec 2021 14:22

Instrument :

MSVOA_U

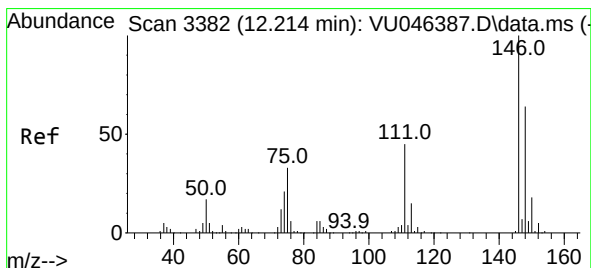
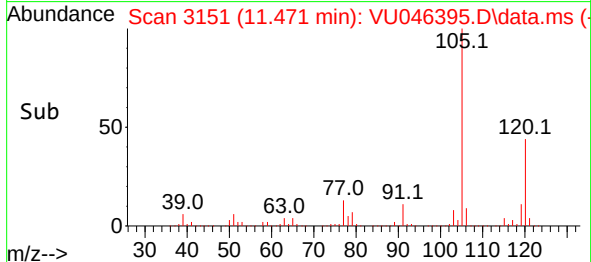
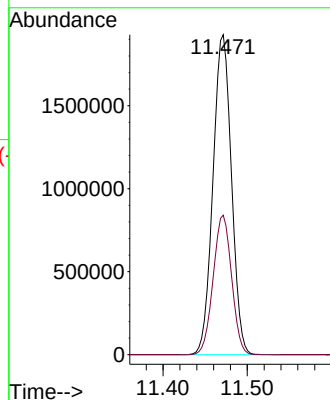
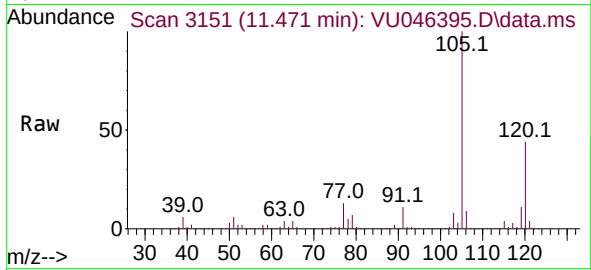
ClientSampleId :

Tgt Ion:105 Resp: 2933040

Ion Ratio Lower Upper

105 100

120 43.5 35.2 52.8



#67

1,2-Dichlorobenzene

Concen: 27.959 ug/L

RT: 12.211 min Scan# 3381

Delta R.T. -0.003 min

Lab File: VU046395.D

Acq: 15 Dec 2021 14:22

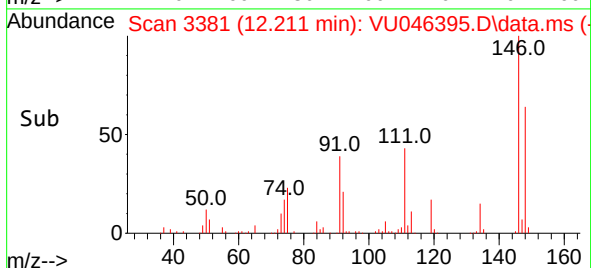
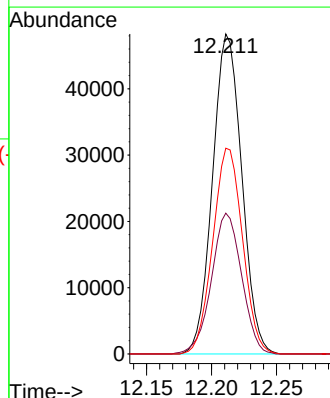
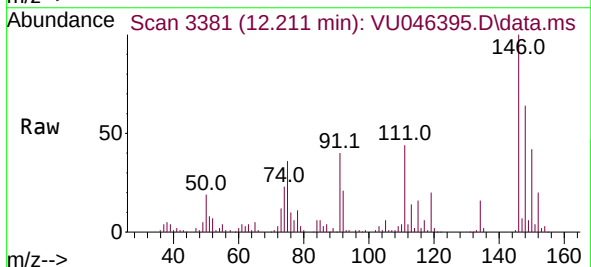
Tgt Ion:146 Resp: 75555

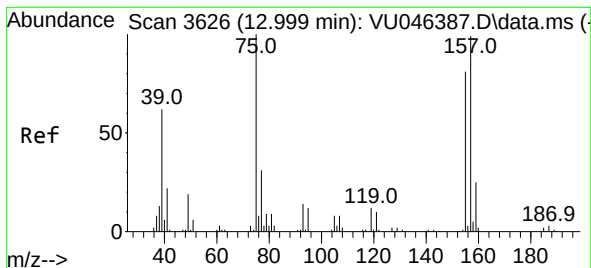
Ion Ratio Lower Upper

146 100

111 44.0 35.7 53.5

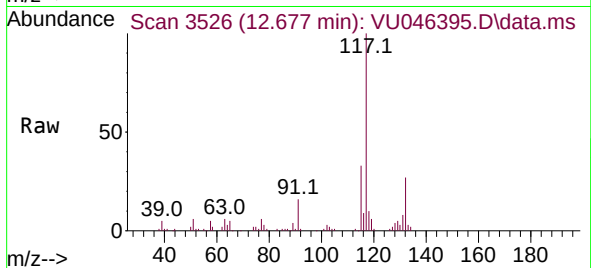
148 64.3 51.2 76.8



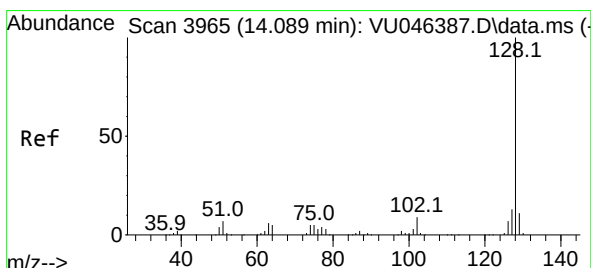
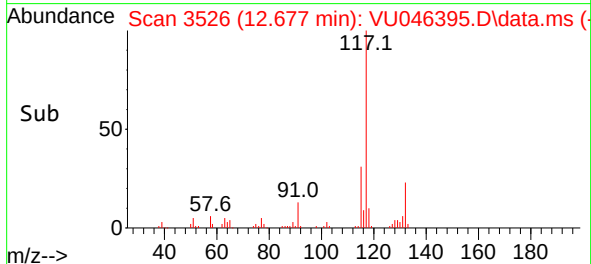
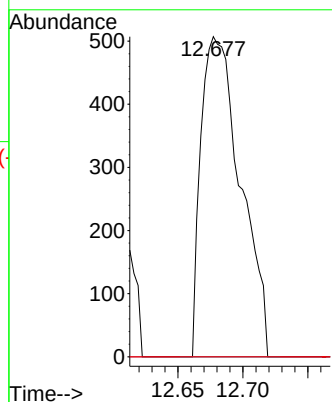


#68
1,2-Dibromo-3-chloropropane
Concen: 2.122 ug/L
RT: 12.677 min Scan# 31
Delta R.T. -0.322 min
Lab File: VU046395.D
Acq: 15 Dec 2021 14:22

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion: 75 Resp: 1076
Ion Ratio Lower Upper
75 100
155 0.0 64.9 97.3#
157 0.0 81.9 122.9#



#71
Naphthalene
Concen: 52.016 ug/L
RT: 14.086 min Scan# 3964
Delta R.T. -0.003 min
Lab File: VU046395.D
Acq: 15 Dec 2021 14:22

Tgt Ion: 128 Resp: 314069
Ion Ratio Lower Upper
128 100
127 12.5 10.1 15.1
129 10.9 8.6 13.0

