

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
 Data File : VU046262.D
 Acq On : 10 Dec 2021 13:41
 Operator : SY/MD
 Sample : M4943-02
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 10 22:24:13 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 03 05:08:36 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.282	114	202281	50.000	ug/L	0.03
28) Chlorobenzene-d5	9.427	117	210524	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.819	152	127705	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.610	65	55240	33.152	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	66.300%
7) Chloroethane-d5	1.941	69	44828	35.039	ug/L	0.02
Spiked Amount	50.000	Range	70 - 130	Recovery	=	70.080%
11) 1,1-Dichloroethene-d2	2.584	63	73439	24.551	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	49.100%#
21) 2-Butanone-d5	4.755	46	125080	94.427	ug/L	0.11
Spiked Amount	100.000	Range	40 - 130	Recovery	=	94.430%
24) Chloroform-d	5.115	84	118785	42.688	ug/L	0.04
Spiked Amount	50.000	Range	70 - 125	Recovery	=	85.380%
26) 1,2-Dichloroethane-d4	5.745	65	82147	43.989	ug/L	0.04
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.980%
32) Benzene-d6	5.764	84	259152	42.949	ug/L	0.03
Spiked Amount	50.000	Range	70 - 125	Recovery	=	85.900%
36) 1,2-Dichloropropane-d6	6.719	67	82723	44.236	ug/L	0.03
Spiked Amount	50.000	Range	70 - 120	Recovery	=	88.480%
41) Toluene-d8	7.915	98	242294	44.102	ug/L	0.01
Spiked Amount	50.000	Range	80 - 120	Recovery	=	88.200%
43) trans-1,3-Dichloroprop...	8.195	79	43589	48.286	ug/L	0.01
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.580%
47) 2-Hexanone-d5	8.652	63	109561	123.567	ug/L	0.02
Spiked Amount	100.000	Range	45 - 130	Recovery	=	123.570%
56) 1,1,2,2-Tetrachloroeth...	10.764	84	165401	58.322	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	116.640%
66) 1,2-Dichlorobenzene-d4	12.198	152	106533	43.317	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	86.640%
Target Compounds						
					Qvalue	
10) 1,1,2-Trichloro-1,2,2-...	2.584	101	625	0.425	ug/L #	21
12) 1,1-Dichloroethene	2.588	96	582	0.416	ug/L #	1
13) Acetone	2.777	43	265814	160.566	ug/L	97
15) Methyl Acetate	2.777	43	265814	137.737	ug/L #	49
20) cis-1,2-Dichloroethene	4.723	96	15914	9.909	ug/L	97
27) 1,2-Dichloroethane	5.832	62	2672	1.204	ug/L #	73
29) Cyclohexane	5.411	56	6409	2.614	ug/L #	42
33) Benzene	5.813	78	143922	22.587	ug/L	100
35) Methylcyclohexane	6.787	83	19251	7.396	ug/L	90
39) cis-1,3-Dichloropropene	7.584	75	2508	0.988	ug/L #	63
42) Toluene	7.986	91	2237242	327.223	ug/L	99
44) trans-1,3-Dichloropropene	8.195	75	1737	0.696	ug/L #	45
45) 1,1,2-Trichloroethane	8.382	97	23510	14.039	ug/L #	21
46) Tetrachloroethene	8.568	164	2575	2.087	ug/L	94
48) 2-Hexanone	8.645	43	81853	37.321	ug/L #	31
51) Chlorobenzene	9.455	112	63939	14.455	ug/L	99
52) Ethylbenzene	9.581	91	5342258	726.033	ug/L	98
53) m,p-Xylene	9.709	106	5806461	2023.456	ug/L	98
54) o-xylene	10.108	106	2069818	743.353	ug/L	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
 Data File : VU046262.D
 Acq On : 10 Dec 2021 13:41
 Operator : SY/MD
 Sample : M4943-02
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 10 22:24:13 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 03 05:08:36 2021
 Response via : Initial Calibration

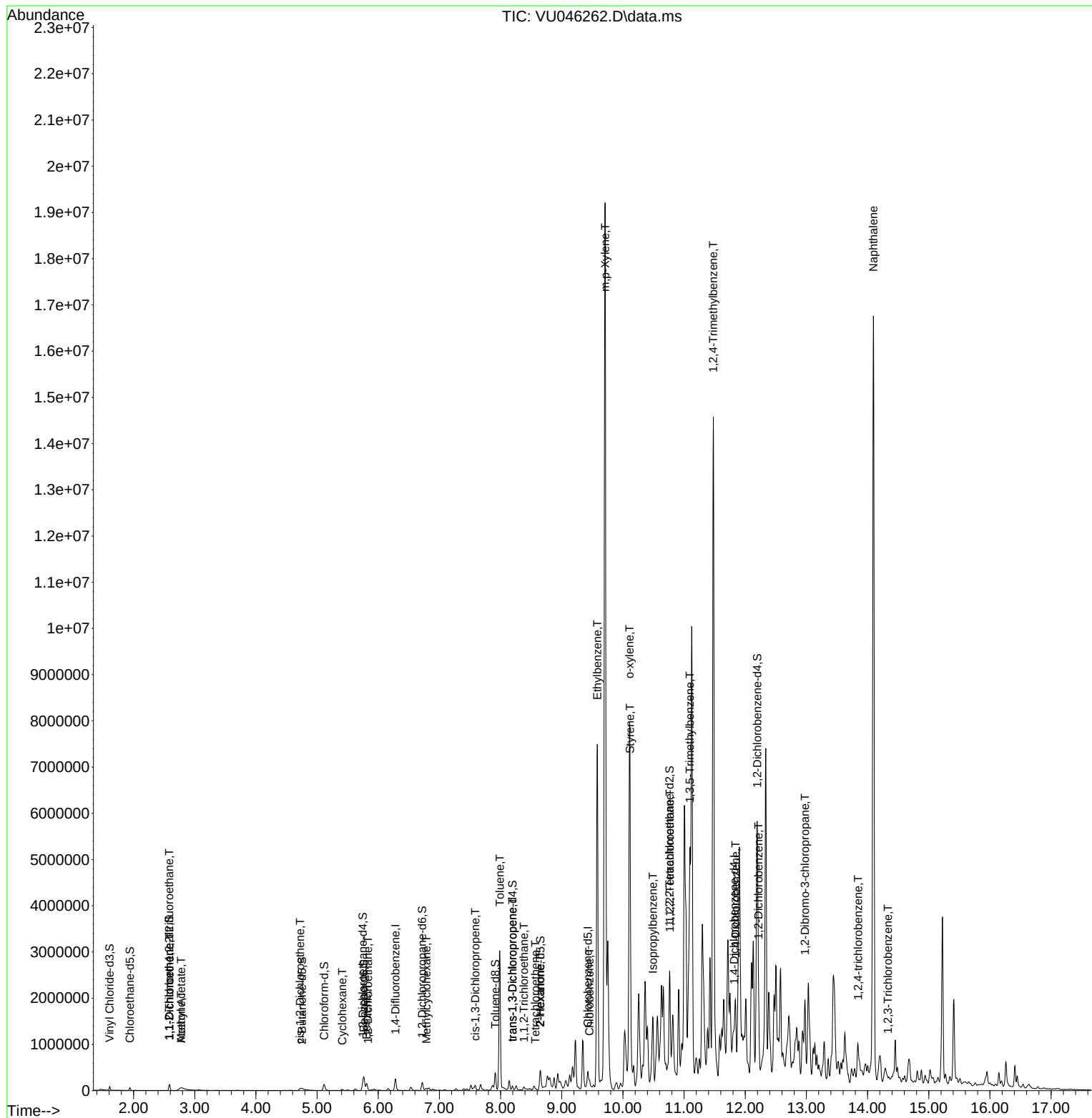
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) Styrene	10.118	104	197748	41.598	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	10.767	83	37010	12.891	ug/L #	52
61) Isopropylbenzene	10.491	105	862074	103.752	ug/L	100
62) 1,3,5-Trimethylbenzene	11.095	105	2429471	350.793	ug/L	99
63) 1,2,4-Trimethylbenzene	11.478	105	7791197	1124.427	ug/L	99
65) 1,4-Dichlorobenzene	11.841	146	4064	0.996	ug/L #	1
67) 1,2-Dichlorobenzene	12.217	146	89890	22.616	ug/L #	82
68) 1,2-Dibromo-3-chloropr...	12.976	75	6058	8.123	ug/L #	10
70) 1,2,4-trichlorobenzene	13.844	180	49974	19.582	ug/L #	76
71) Naphthalene	14.095	128	13599601	1531.394	ug/L	98
72) 1,2,3-Trichlorobenzene	14.333	180	13425	5.159	ug/L #	9

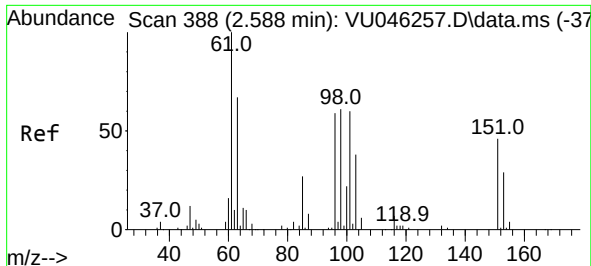
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121021\
Data File : VU046262.D
Acq On : 10 Dec 2021 13:41
Operator : SY/MD
Sample : M4943-02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

Quant Time: Dec 10 22:24:13 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 03 05:08:36 2021
Response via : Initial Calibration

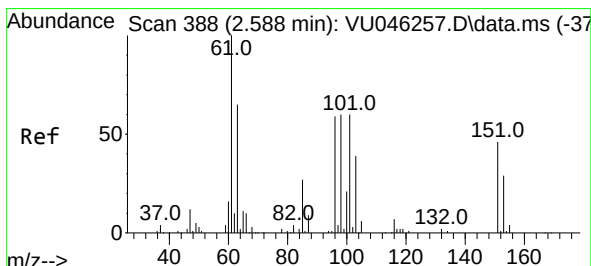
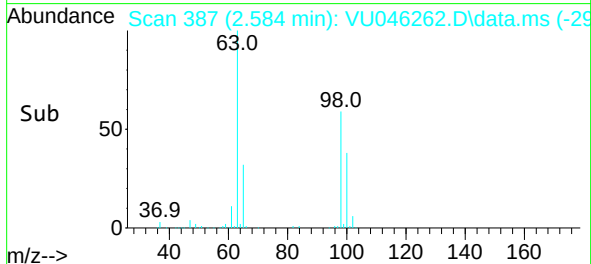
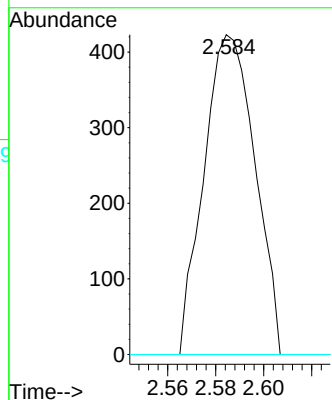
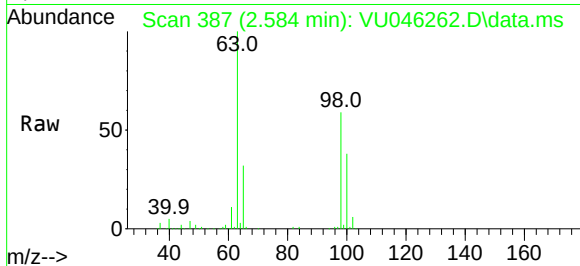




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.425 ug/L
RT: 2.584 min Scan# 387
Delta R.T. -0.003 min
Lab File: VU046262.D
Acq: 10 Dec 2021 13:41

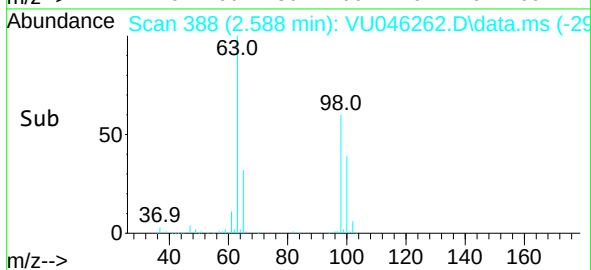
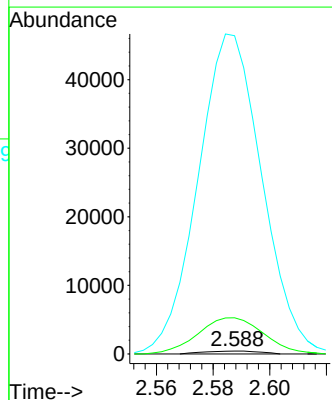
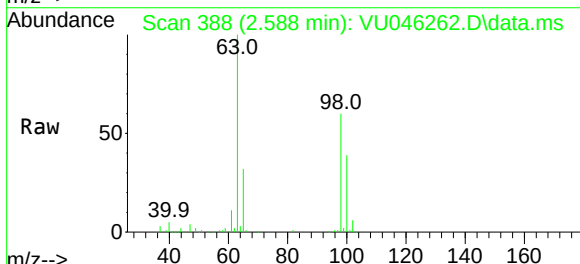
Instrument :
MSVOA_U
ClientSampleId :

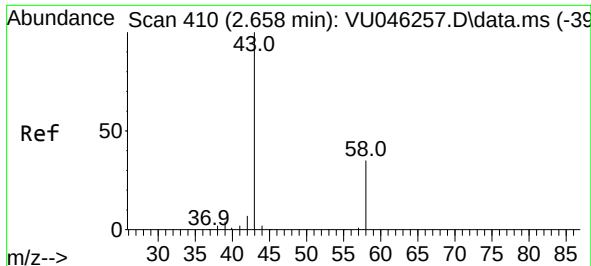
Tgt Ion:101 Resp: 625
Ion Ratio Lower Upper
101 100
85 0.0 35.1 52.7#
151 0.0 56.7 85.1#



#12
1,1-Dichloroethene
Concen: 0.416 ug/L
RT: 2.588 min Scan# 388
Delta R.T. 0.003 min
Lab File: VU046262.D
Acq: 10 Dec 2021 13:41

Tgt Ion: 96 Resp: 582
Ion Ratio Lower Upper
96 100
61 1227.9 118.6 220.2#
63 10792.6 93.0 172.8#





#13

Acetone

Concen: 160.566 ug/L

RT: 2.777 min Scan# 447

Delta R.T. 0.116 min

Lab File: VU046262.D

Acq: 10 Dec 2021 13:41

Instrument :

MSVOA_U

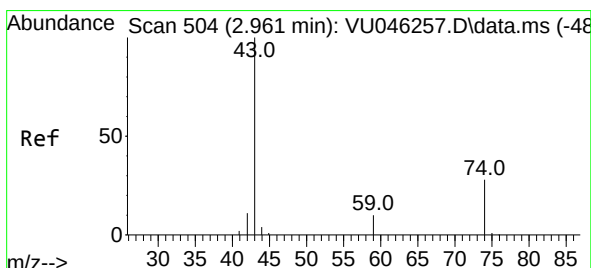
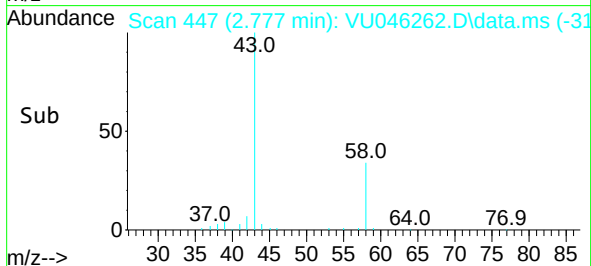
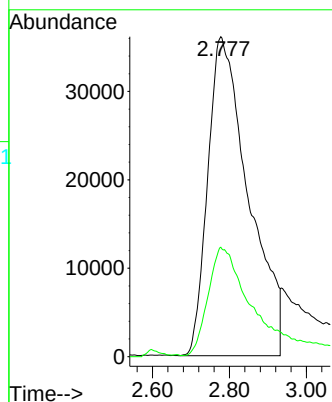
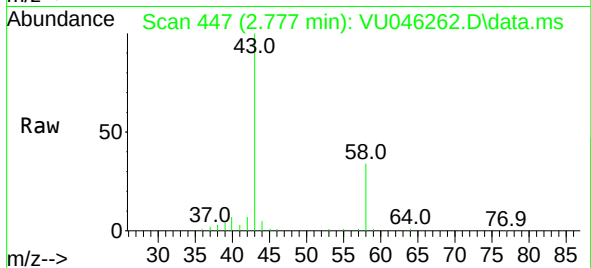
ClientSampleId :

Tgt Ion: 43 Resp: 265814

Ion Ratio Lower Upper

43 100

58 31.5 0.0 66.8



#15

Methyl Acetate

Concen: 137.737 ug/L

RT: 2.777 min Scan# 447

Delta R.T. -0.183 min

Lab File: VU046262.D

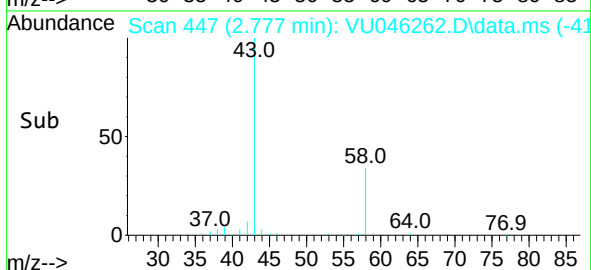
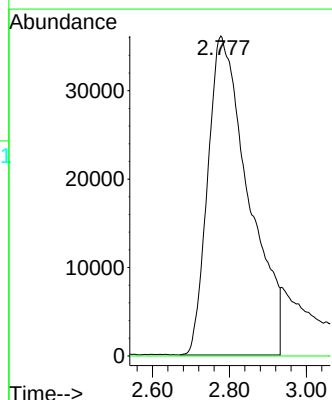
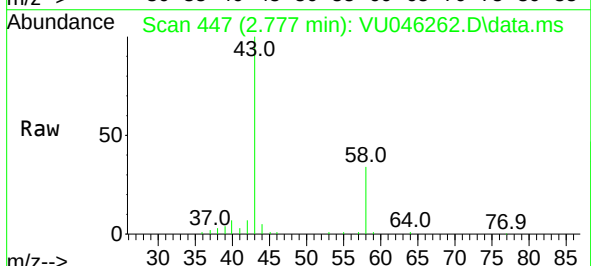
Acq: 10 Dec 2021 13:41

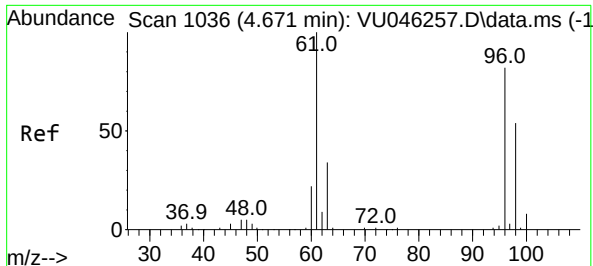
Tgt Ion: 43 Resp: 265814

Ion Ratio Lower Upper

43 100

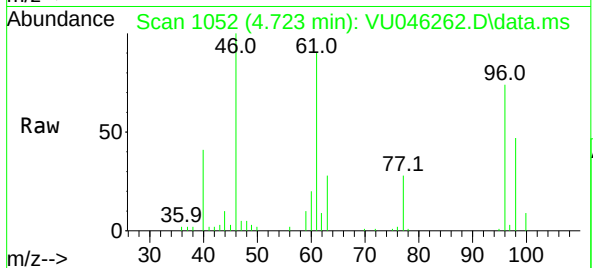
74 0.0 20.8 31.2#



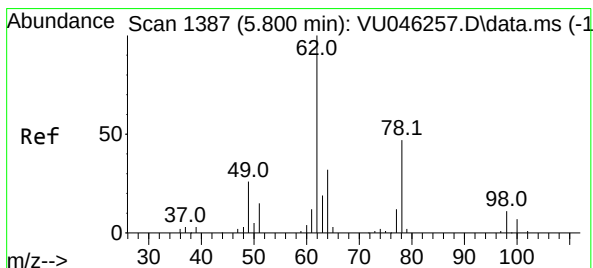
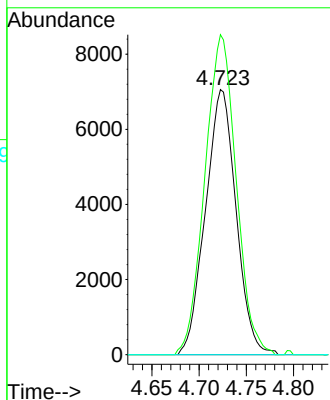
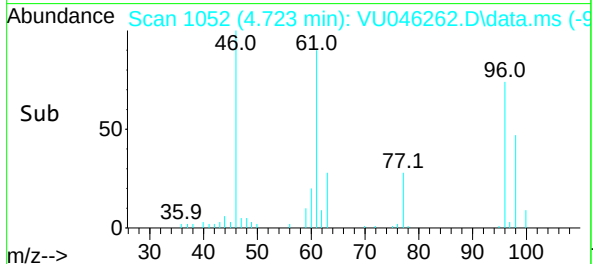


#20
 cis-1,2-Dichloroethene
 Concen: 9.909 ug/L
 RT: 4.723 min Scan# 1052
 Delta R.T. 0.051 min
 Lab File: VU046262.D
 Acq: 10 Dec 2021 13:41

Instrument :
 MSVOA_U
 ClientSampleId :

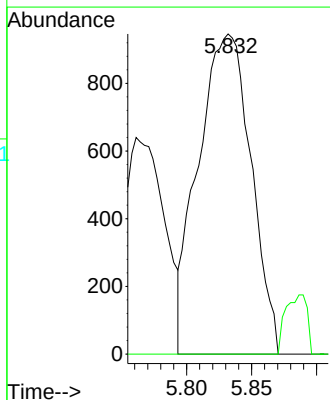
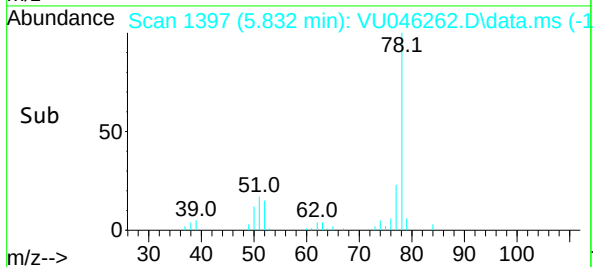
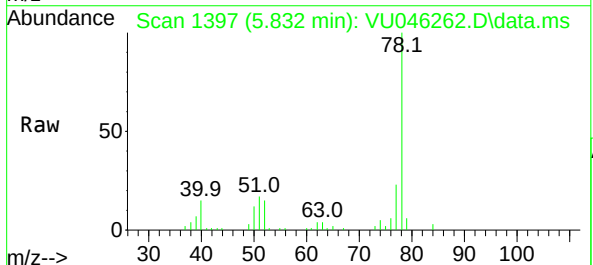


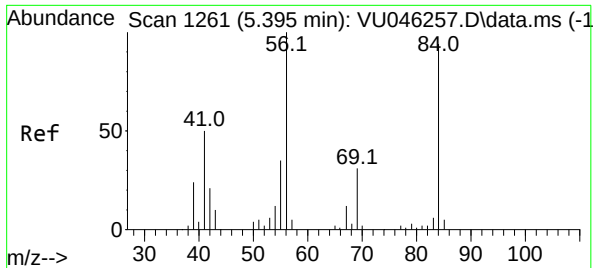
Tgt Ion: 96 Resp: 15914
 Ion Ratio Lower Upper
 96 100
 61 120.7 86.8 161.2
 68 0.0 0.0 0.0



#27
 1,2-Dichloroethane
 Concen: 1.204 ug/L
 RT: 5.832 min Scan# 1397
 Delta R.T. 0.032 min
 Lab File: VU046262.D
 Acq: 10 Dec 2021 13:41

Tgt Ion: 62 Resp: 2672
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.9 11.9#





#29

Cyclohexane

Concen: 2.614 ug/L

RT: 5.411 min Scan# 1266

Delta R.T. 0.016 min

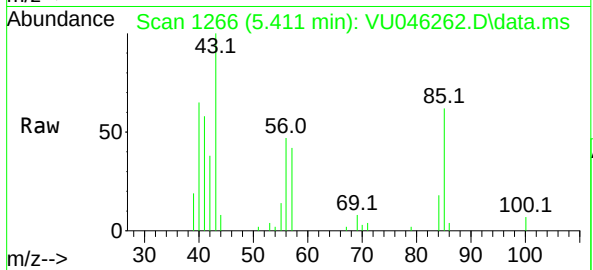
Lab File: VU046262.D

Acq: 10 Dec 2021 13:41

Instrument :

MSVOA_U

ClientSampleId :



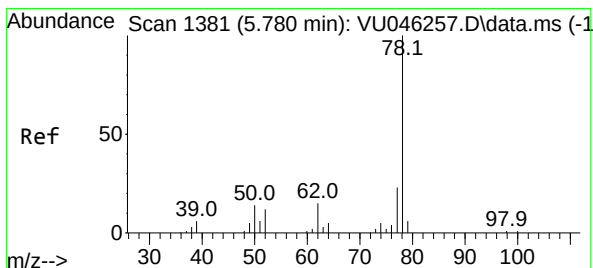
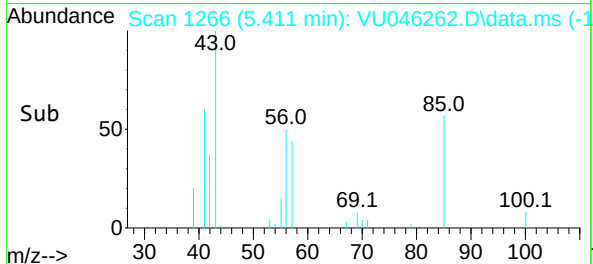
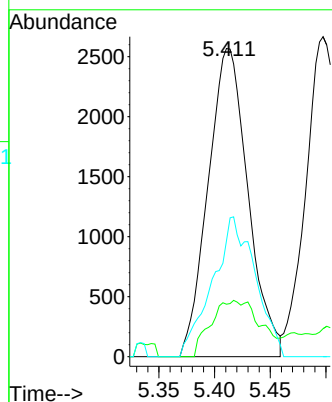
Tgt Ion: 56 Resp: 6409

Ion Ratio Lower Upper

56 100

69 8.2 25.2 37.8#

84 31.5 73.3 109.9#



#33

Benzene

Concen: 22.587 ug/L

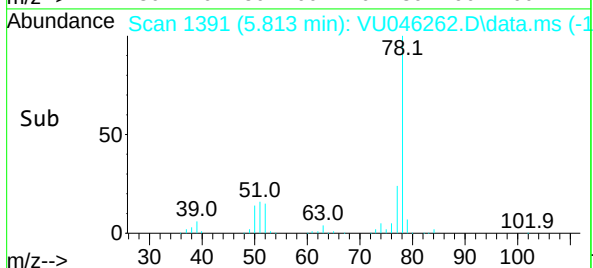
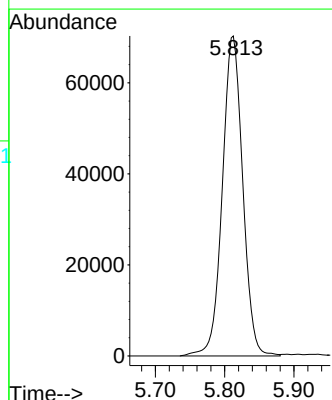
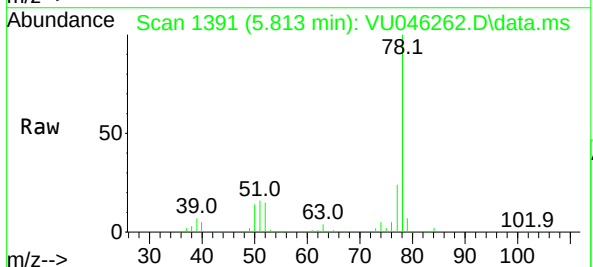
RT: 5.813 min Scan# 1391

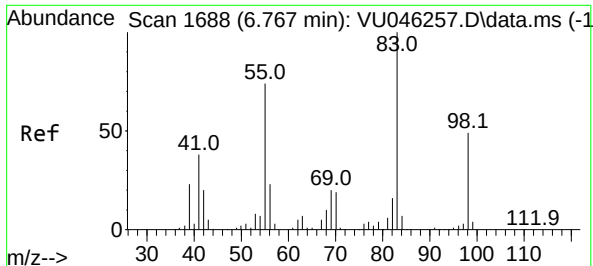
Delta R.T. 0.032 min

Lab File: VU046262.D

Acq: 10 Dec 2021 13:41

Tgt Ion: 78 Resp: 143922





#35

Methylcyclohexane

Concen: 7.396 ug/L

RT: 6.787 min Scan# 1

Delta R.T. 0.019 min

Lab File: VU046262.D

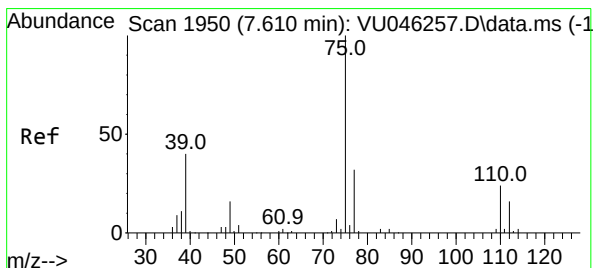
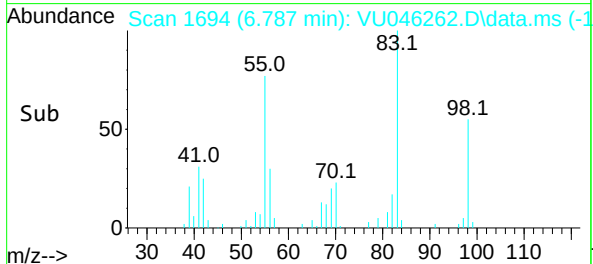
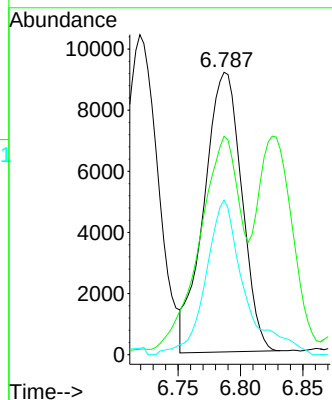
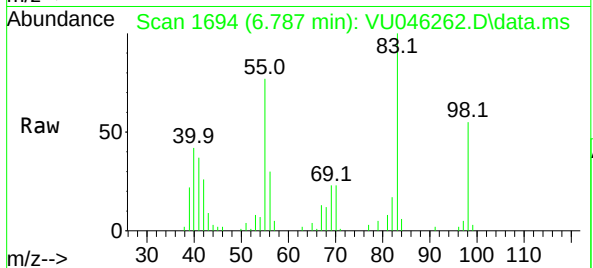
Acq: 10 Dec 2021 13:41

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 83	Resp: 19251
Ion Ratio	Lower Upper
83	100
55	83.7 57.8 86.6
98	51.2 38.4 57.6



#39

cis-1,3-Dichloropropene

Concen: 0.988 ug/L

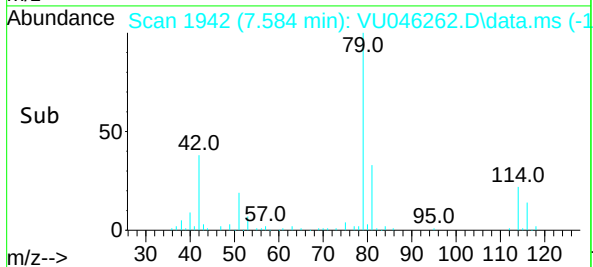
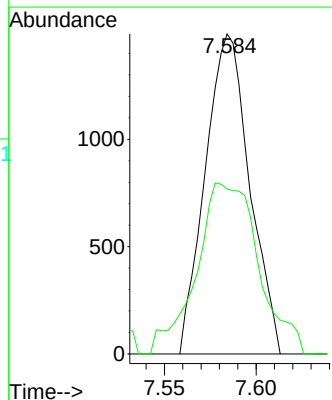
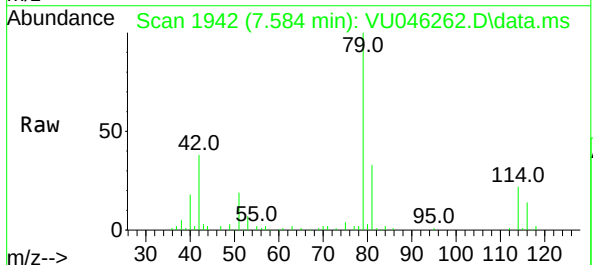
RT: 7.584 min Scan# 1942

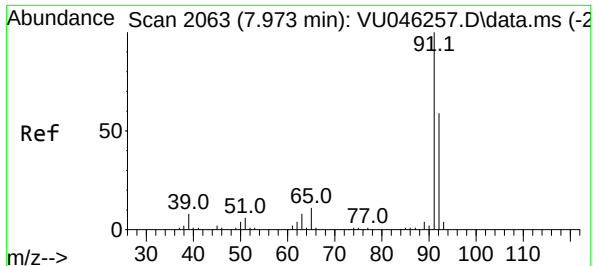
Delta R.T. -0.026 min

Lab File: VU046262.D

Acq: 10 Dec 2021 13:41

Tgt Ion: 75	Resp: 2508
Ion Ratio	Lower Upper
75	100
77	51.5 21.8 40.6#





#42

Toluene

Concen: 327.223 ug/L

RT: 7.986 min Scan# 2063

Delta R.T. 0.013 min

Lab File: VU046262.D

Acq: 10 Dec 2021 13:41

Instrument :

MSVOA_U

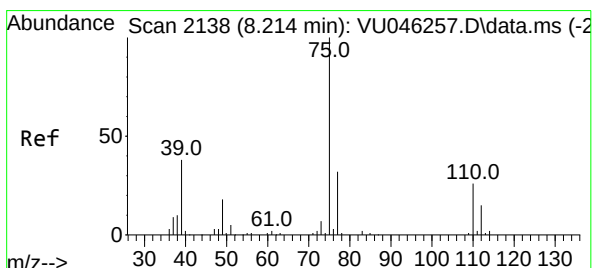
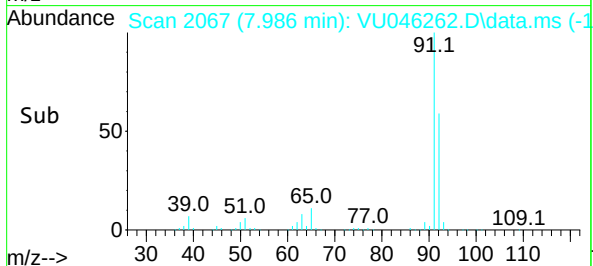
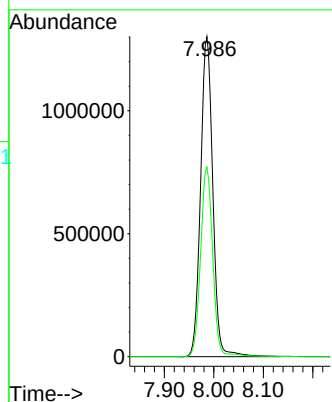
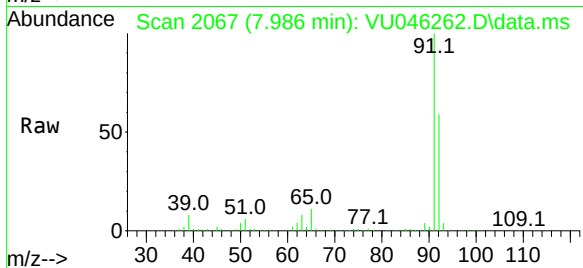
ClientSampleId :

Tgt Ion: 91 Resp: 2237242

Ion Ratio Lower Upper

91 100

92 59.2 41.9 77.7



#44

trans-1,3-Dichloropropene

Concen: 0.696 ug/L

RT: 8.195 min Scan# 2132

Delta R.T. -0.019 min

Lab File: VU046262.D

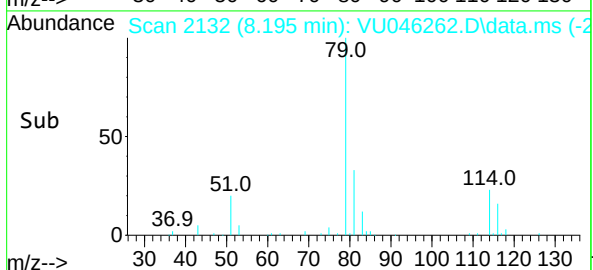
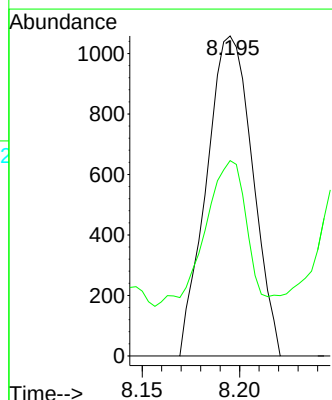
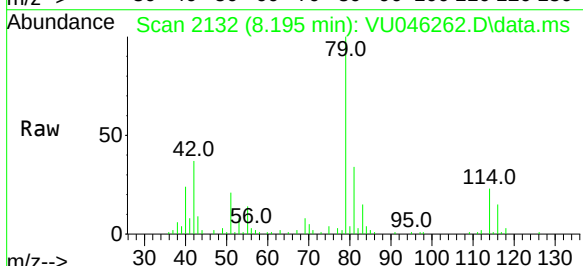
Acq: 10 Dec 2021 13:41

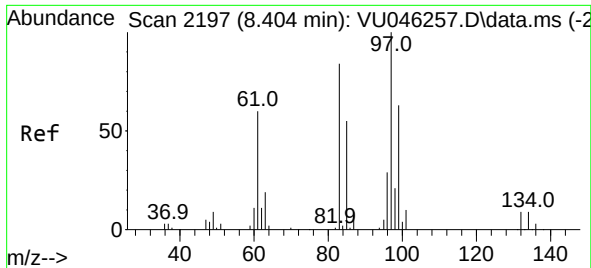
Tgt Ion: 75 Resp: 1737

Ion Ratio Lower Upper

75 100

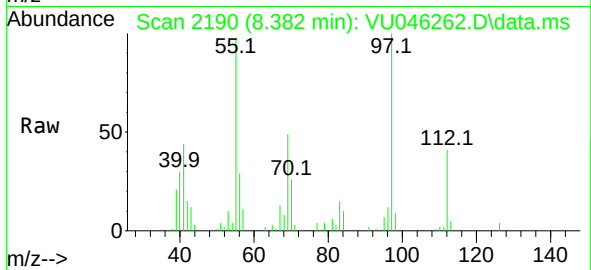
77 61.1 21.7 40.3#



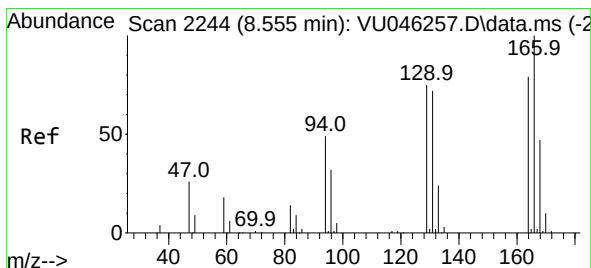
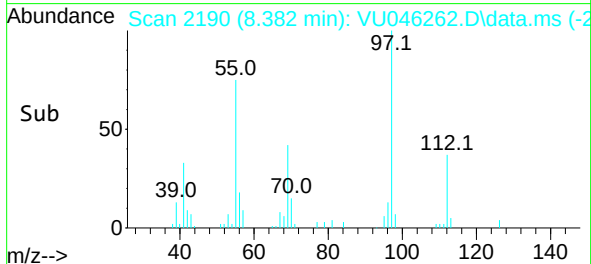
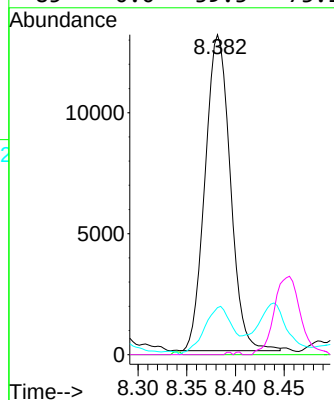


#45
1,1,2-Trichloroethane
Concen: 14.039 ug/L
RT: 8.382 min Scan# 2197
Delta R.T. -0.023 min
Lab File: VU046262.D
Acq: 10 Dec 2021 13:41

Instrument :
MSVOA_U
ClientSampleId :

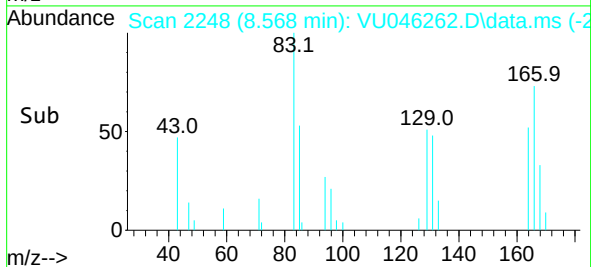
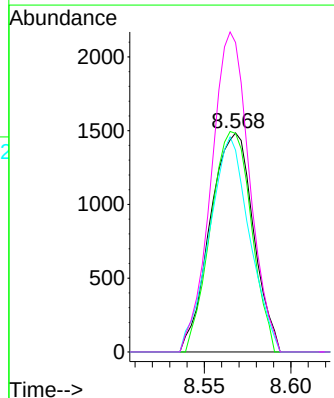
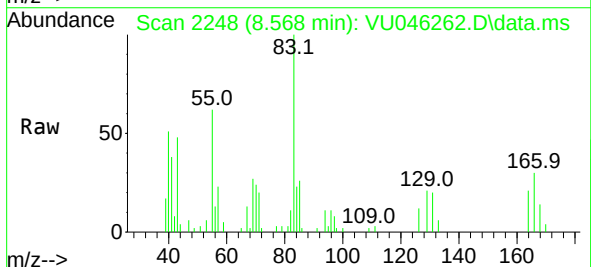


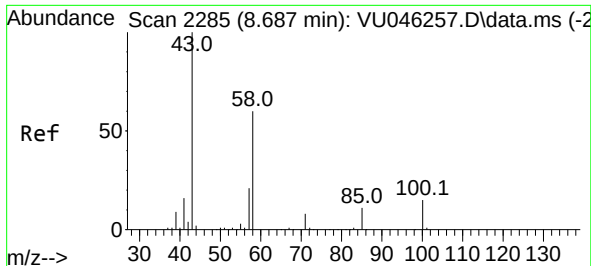
Tgt Ion: 97 Resp: 23510
Ion Ratio Lower Upper
97 100
99 0.0 44.7 82.9#
83 14.7 60.2 111.8#
85 0.0 39.3 73.1#



#46
Tetrachloroethene
Concen: 2.087 ug/L
RT: 8.568 min Scan# 2248
Delta R.T. 0.013 min
Lab File: VU046262.D
Acq: 10 Dec 2021 13:41

Tgt Ion: 164 Resp: 2575
Ion Ratio Lower Upper
164 100
129 99.8 71.1 132.1
131 92.1 67.8 126.0
166 141.3 90.6 168.2

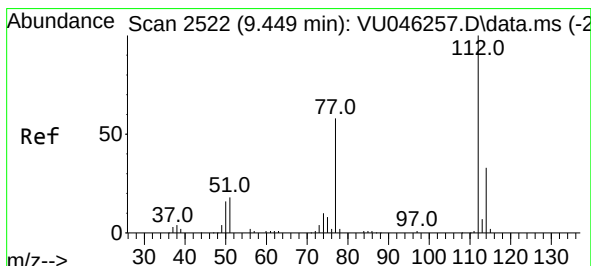
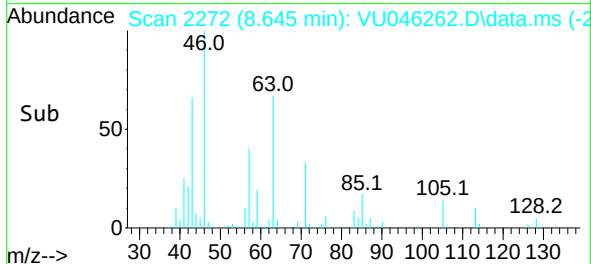
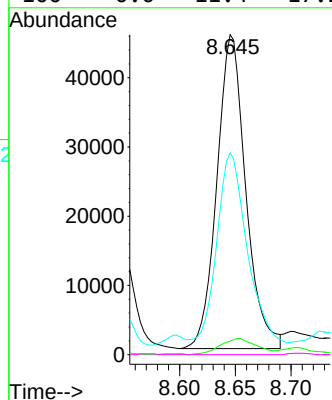
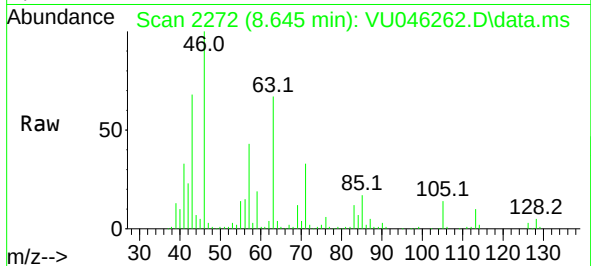




#48
2-Hexanone
Concen: 37.321 ug/L
RT: 8.645 min Scan# 21
Delta R.T. -0.042 min
Lab File: VU046262.D
Acq: 10 Dec 2021 13:41

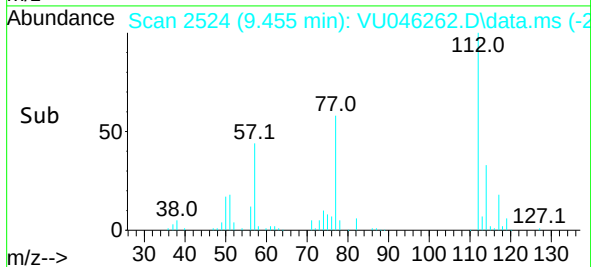
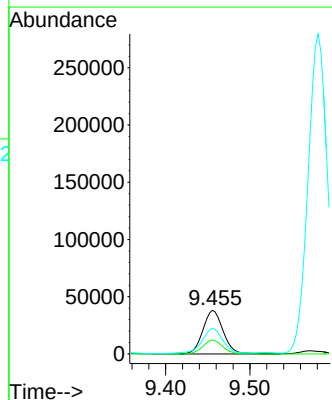
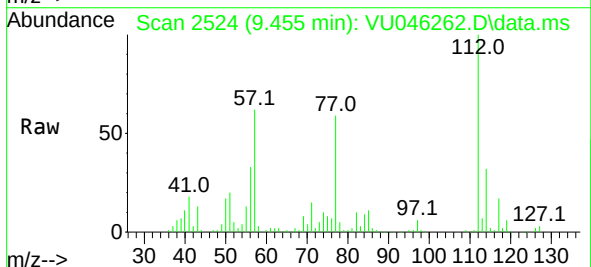
Instrument :
MSVOA_U
ClientSampleId :

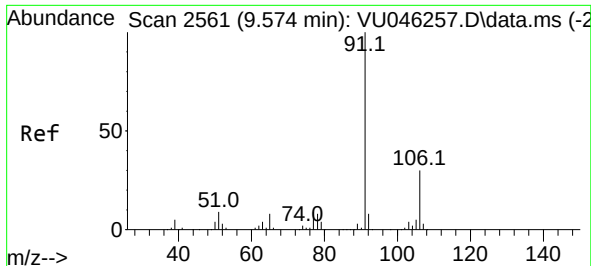
Tgt Ion: 43	Resp: 81853
Ion Ratio	Lower Upper
43 100	
58 6.5	47.4 71.2#
57 62.2	16.6 25.0#
100 0.0	11.4 17.2#



#51
Chlorobenzene
Concen: 14.455 ug/L
RT: 9.455 min Scan# 2524
Delta R.T. 0.006 min
Lab File: VU046262.D
Acq: 10 Dec 2021 13:41

Tgt Ion: 112	Resp: 63939
Ion Ratio	Lower Upper
112 100	
114 32.0	22.2 41.2
77 58.6	47.4 71.0

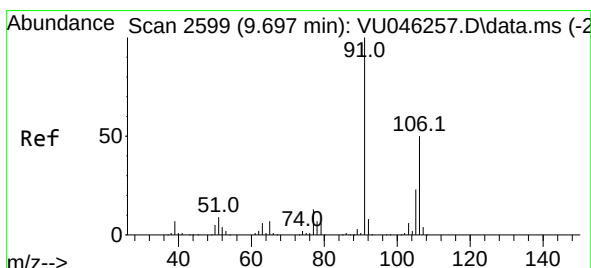
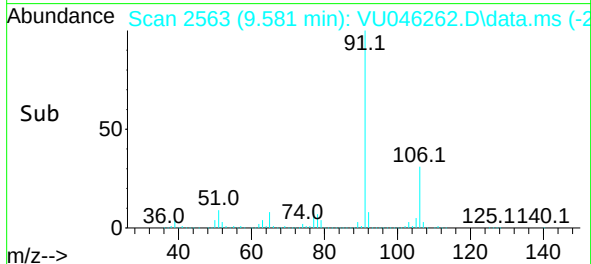
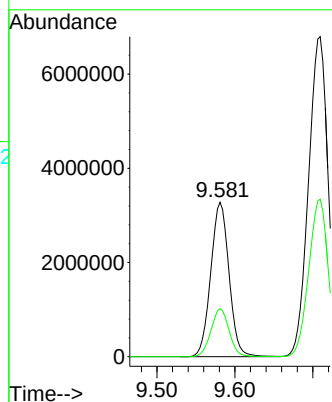
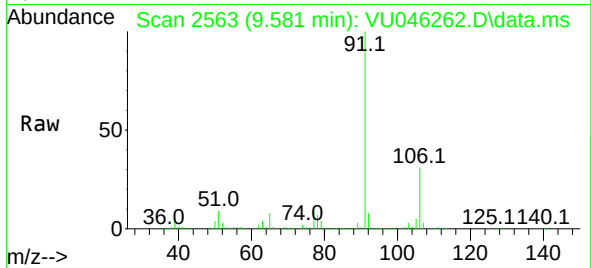




#52
Ethylbenzene
Concen: 726.033 ug/L
RT: 9.581 min Scan# 21
Delta R.T. 0.006 min
Lab File: VU046262.D
Acq: 10 Dec 2021 13:41

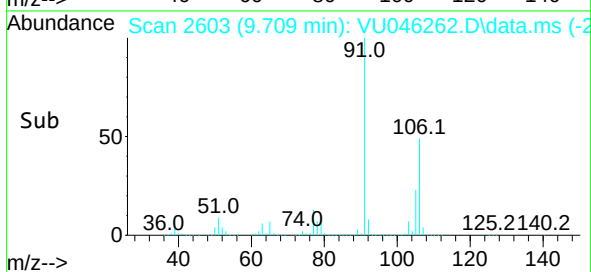
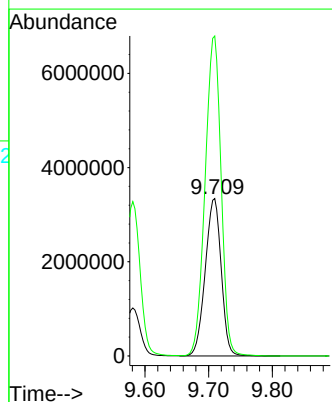
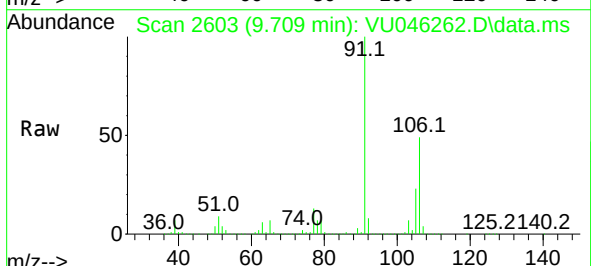
Instrument :
MSVOA_U
ClientSampleId :

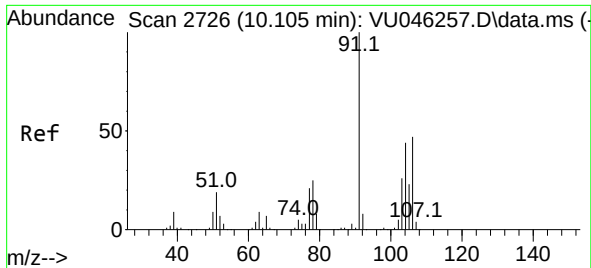
Tgt Ion: 91 Resp: 5342258
Ion Ratio Lower Upper
91 100
106 31.1 21.1 39.3



#53
m,p-Xylene
Concen: 2023.456 ug/L
RT: 9.709 min Scan# 2603
Delta R.T. 0.013 min
Lab File: VU046262.D
Acq: 10 Dec 2021 13:41

Tgt Ion:106 Resp: 5806461
Ion Ratio Lower Upper
106 100
91 203.2 144.3 268.1

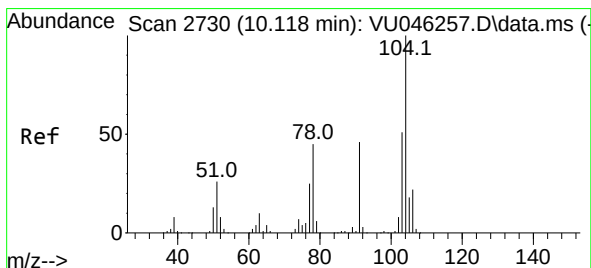
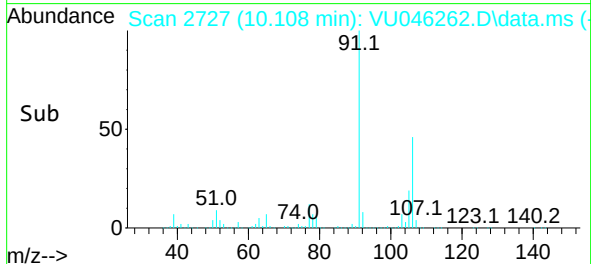
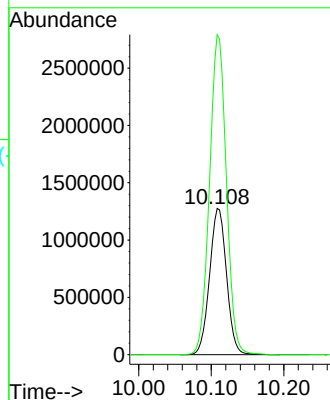
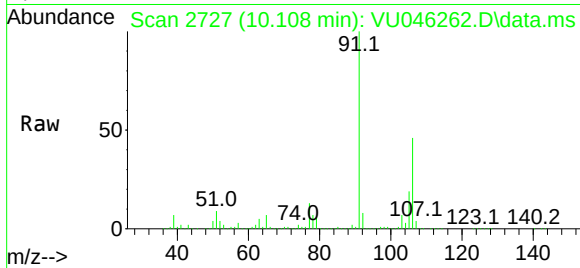




#54
o-xylene
Concen: 743.353 ug/L
RT: 10.108 min Scan# 2727
Delta R.T. 0.003 min
Lab File: VU046262.D
Acq: 10 Dec 2021 13:41

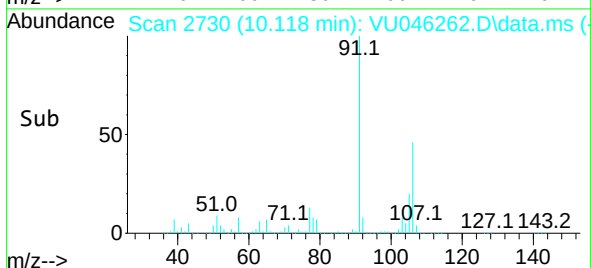
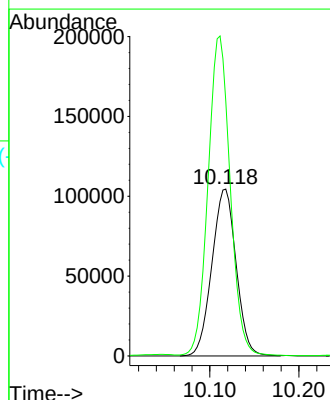
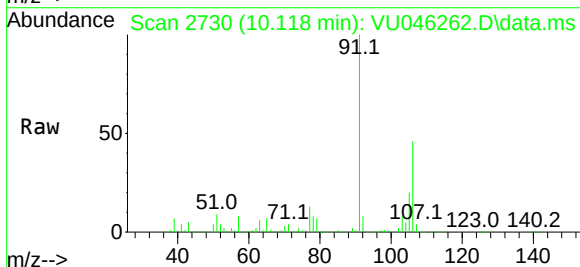
Instrument :
MSVOA_U
ClientSampleId :

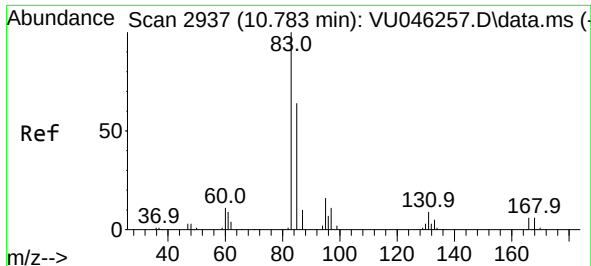
Tgt Ion:106 Resp: 2069818
Ion Ratio Lower Upper
106 100
91 218.8 154.2 286.4



#55
Styrene
Concen: 41.598 ug/L
RT: 10.118 min Scan# 2730
Delta R.T. -0.000 min
Lab File: VU046262.D
Acq: 10 Dec 2021 13:41

Tgt Ion:104 Resp: 197748
Ion Ratio Lower Upper
104 100
78 152.5 32.6 60.5#





#57

1,1,2,2-Tetrachloroethane

Concen: 12.891 ug/L

RT: 10.767 min Scan# 2937

Delta R.T. -0.019 min

Lab File: VU046262.D

Acq: 10 Dec 2021 13:41

Instrument :

MSVOA_U

ClientSampleId :

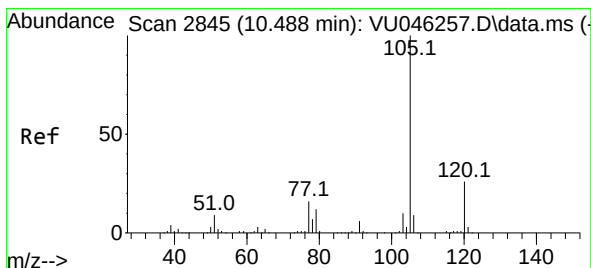
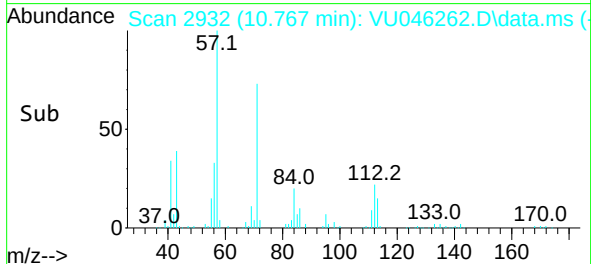
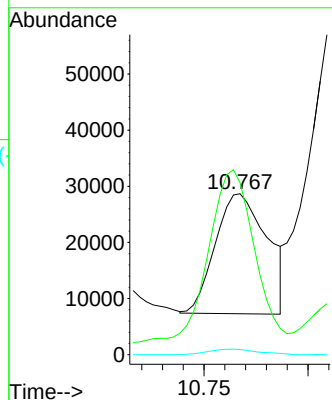
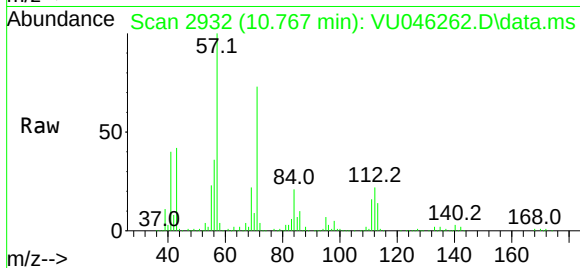
Tgt Ion: 83 Resp: 37010

Ion Ratio Lower Upper

83 100

85 106.9 45.6 84.6#

131 3.2 7.8 11.6#



#61

Isopropylbenzene

Concen: 103.752 ug/L

RT: 10.491 min Scan# 2846

Delta R.T. 0.003 min

Lab File: VU046262.D

Acq: 10 Dec 2021 13:41

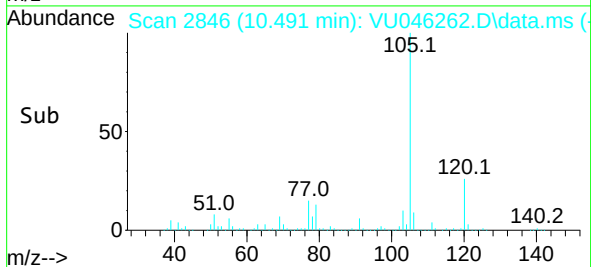
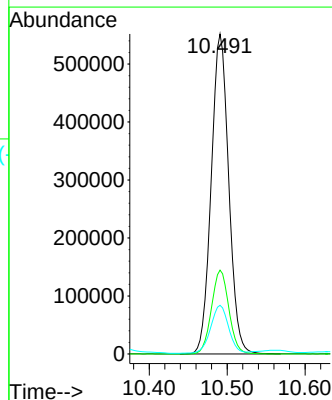
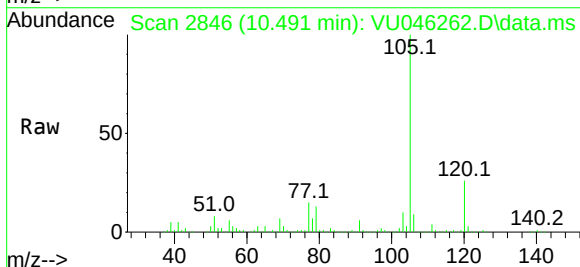
Tgt Ion:105 Resp: 862074

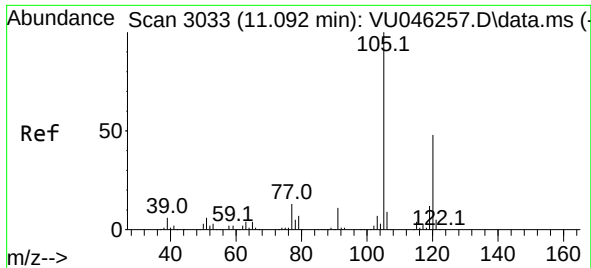
Ion Ratio Lower Upper

105 100

120 26.0 20.7 31.1

77 15.4 12.2 18.4

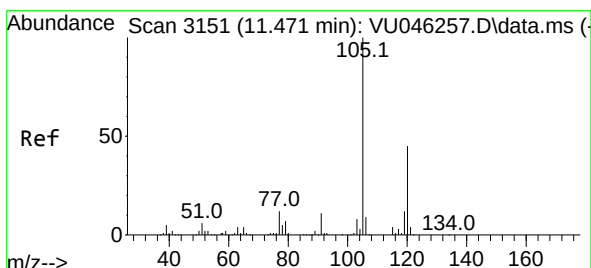
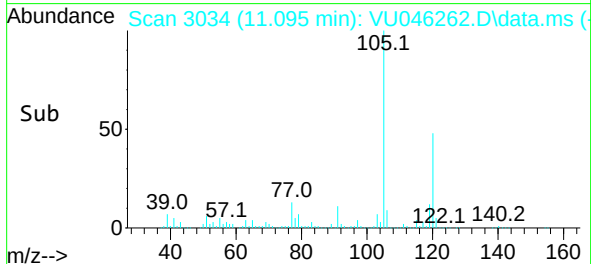
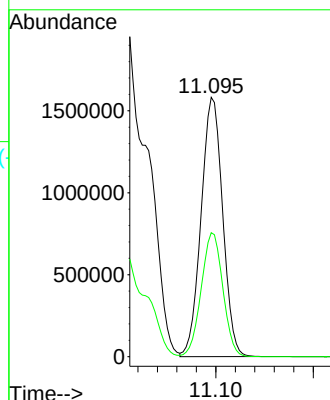
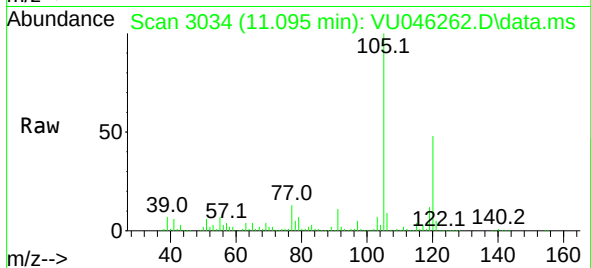




#62
1,3,5-Trimethylbenzene
Concen: 350.793 ug/L
RT: 11.095 min Scan# 3033
Delta R.T. 0.003 min
Lab File: VU046262.D
Acq: 10 Dec 2021 13:41

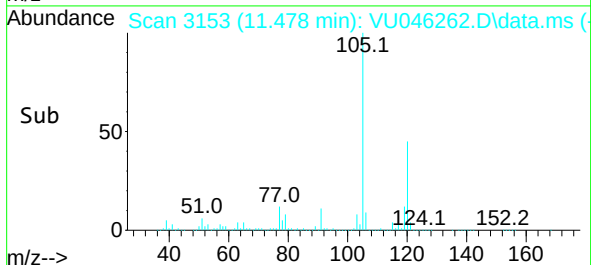
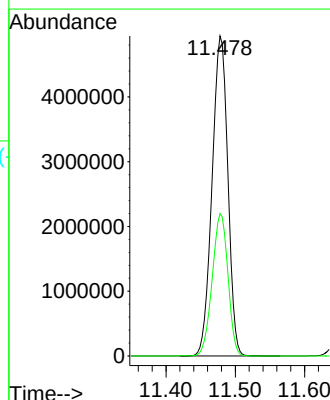
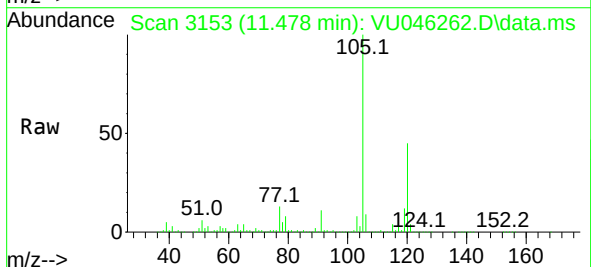
Instrument :
MSVOA_U
ClientSampleId :

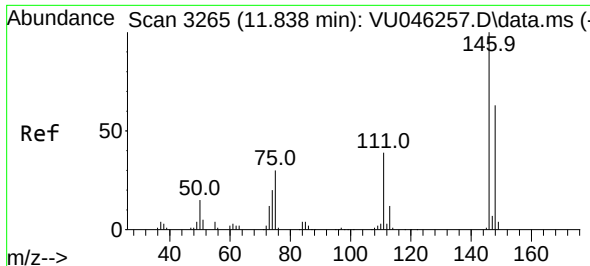
Tgt Ion:105 Resp: 2429471
Ion Ratio Lower Upper
105 100
120 47.9 37.8 56.6



#63
1,2,4-Trimethylbenzene
Concen: 1124.427 ug/L
RT: 11.478 min Scan# 3153
Delta R.T. 0.006 min
Lab File: VU046262.D
Acq: 10 Dec 2021 13:41

Tgt Ion:105 Resp: 7791197
Ion Ratio Lower Upper
105 100
120 44.3 35.2 52.8

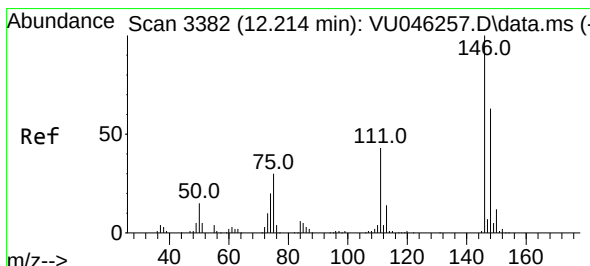
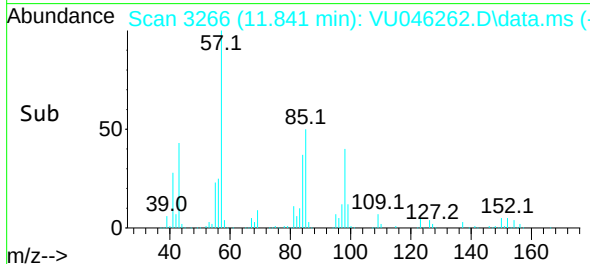
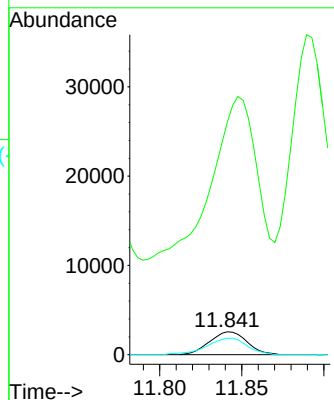
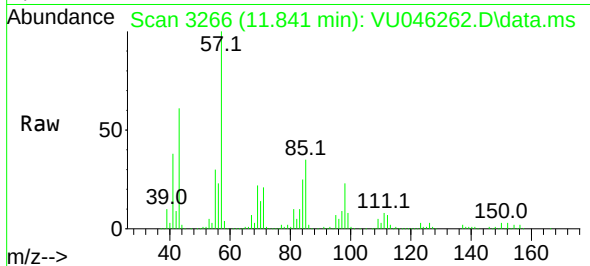




#65
1,4-Dichlorobenzene
Concen: 0.996 ug/L
RT: 11.841 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU046262.D
Acq: 10 Dec 2021 13:41

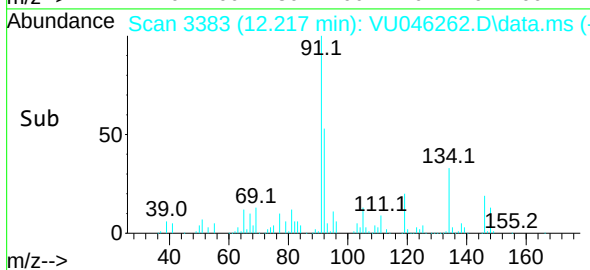
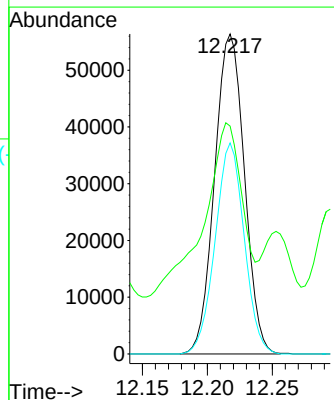
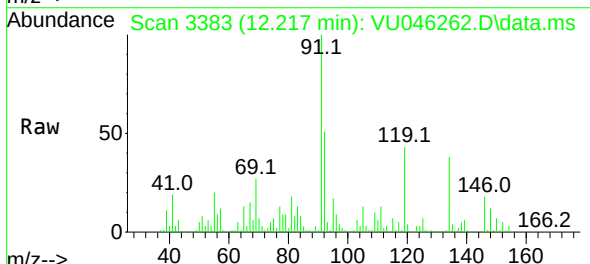
Instrument :
MSVOA_U
ClientSampleId :

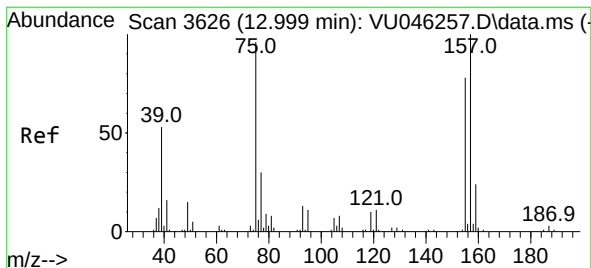
Tgt Ion:146 Resp: 4064
Ion Ratio Lower Upper
146 100
111 1014.2 28.3 52.7#
148 71.4 43.8 81.3



#67
1,2-Dichlorobenzene
Concen: 22.616 ug/L
RT: 12.217 min Scan# 3383
Delta R.T. 0.003 min
Lab File: VU046262.D
Acq: 10 Dec 2021 13:41

Tgt Ion:146 Resp: 89890
Ion Ratio Lower Upper
146 100
111 71.2 35.7 53.5#
148 65.9 51.2 76.8

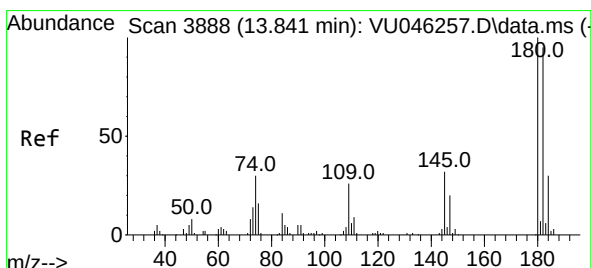
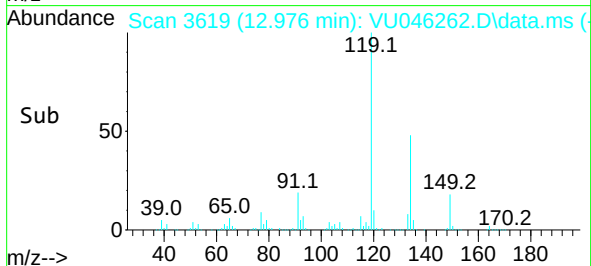
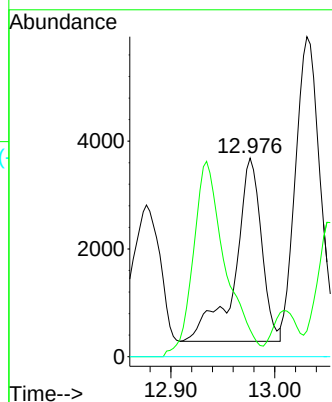
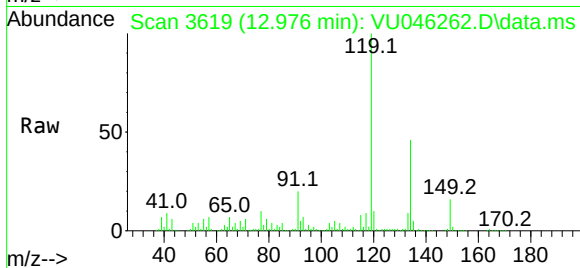




#68
1,2-Dibromo-3-chloropropane
Concen: 8.123 ug/L
RT: 12.976 min Scan# 3619
Delta R.T. -0.023 min
Lab File: VU046262.D
Acq: 10 Dec 2021 13:41

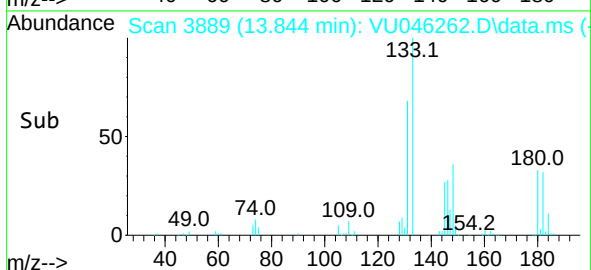
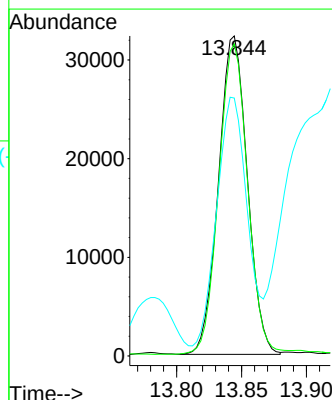
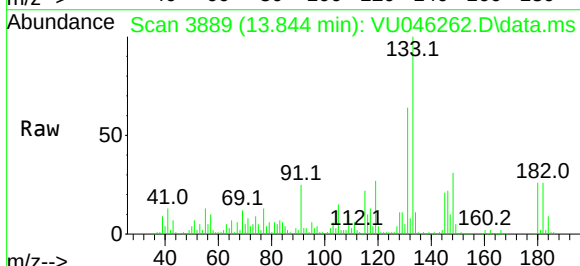
Instrument :
MSVOA_U
ClientSampleId :

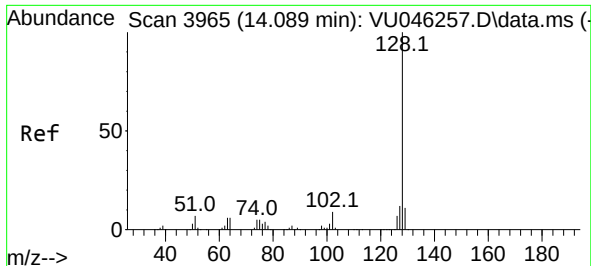
Tgt Ion: 75 Resp: 6058
Ion Ratio Lower Upper
75 100
155 13.5 64.9 97.3#
157 0.0 81.9 122.9#



#70
1,2,4-trichlorobenzene
Concen: 19.582 ug/L
RT: 13.844 min Scan# 3889
Delta R.T. 0.003 min
Lab File: VU046262.D
Acq: 10 Dec 2021 13:41

Tgt Ion: 180 Resp: 49974
Ion Ratio Lower Upper
180 100
182 97.6 76.7 115.1
145 82.0 26.0 39.0#

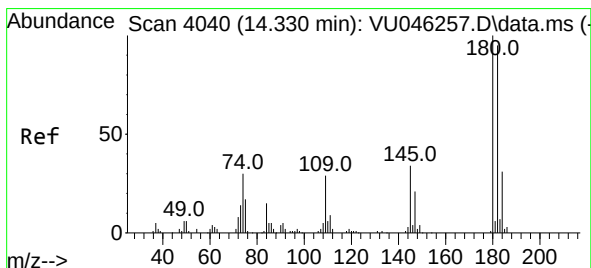
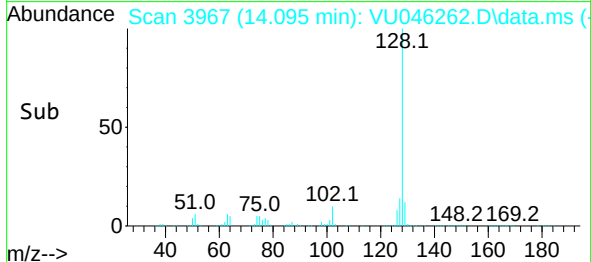
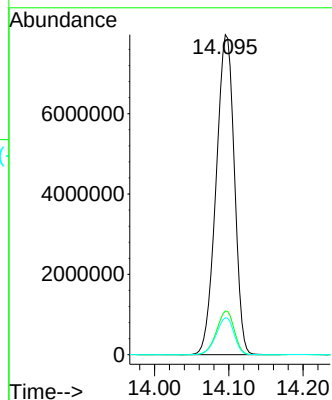
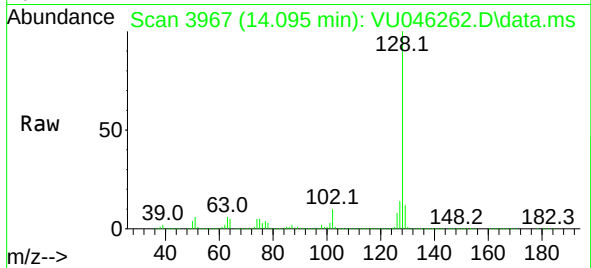




#71
Naphthalene
Concen: 1531.394 ug/L
RT: 14.095 min Scan# 3965
Delta R.T. 0.006 min
Lab File: VU046262.D
Acq: 10 Dec 2021 13:41

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion:128 Resp:13599601
Ion Ratio Lower Upper
128 100
127 13.3 10.1 15.1
129 11.4 8.6 13.0



#72
1,2,3-Trichlorobenzene
Concen: 5.159 ug/L
RT: 14.333 min Scan# 4041
Delta R.T. 0.003 min
Lab File: VU046262.D
Acq: 10 Dec 2021 13:41

Tgt Ion:180 Resp: 13425
Ion Ratio Lower Upper
180 100
182 96.8 76.0 114.0
145 228.7 27.3 40.9#

