

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU021122\
 Data File : VU047110.D
 Acq On : 11 Feb 2022 13:22
 Operator : SY/MD
 Sample : N1486-01
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 X3941

Quant Time: Feb 12 01:27:05 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM021022WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Feb 12 01:25:35 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.253	114	459363	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.420	117	432939	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	233760	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.604	65	180198	43.193	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	86.380%
7) Chloroethane-d5	1.919	69	144267	46.648	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.300%
11) 1,1-Dichloroethene-d2	2.572	63	240209	34.744	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	69.480%
21) 2-Butanone-d5	4.636	46	389983	120.529	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	120.530%
24) Chloroform-d	5.067	84	312418	46.128	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.260%
26) 1,2-Dichloroethane-d4	5.703	65	211012	48.541	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.080%
32) Benzene-d6	5.729	84	672840	46.747	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.500%
36) 1,2-Dichloropropane-d6	6.694	67	221729	47.503	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.000%
41) Toluene-d8	7.899	98	636487	46.444	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.880%
43) trans-1,3-Dichloroprop...	8.182	79	116050	47.443	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.880%
47) 2-Hexanone-d5	8.639	63	300541	112.390	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	112.390%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	345500	50.763	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	101.520%
66) 1,2-Dichlorobenzene-d4	12.195	152	262702	47.385	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.760%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.388	85	60911	14.231	ug/L	98
3) Chloromethane	1.527	50	153809	36.315	ug/L	100
6) Bromomethane	1.864	94	61238	24.665	ug/L	95
9) Trichlorofluoromethane	2.141	101	129843	26.270	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.584	101	115075	37.797	ug/L	97
13) Acetone	2.652	43	1126724	478.029	ug/L	96
15) Methyl Acetate	2.957	43	477075	120.278	ug/L	94
16) Methylene chloride	3.051	84	75426	22.818	ug/L	93
18) Methyl tert-butyl Ether	3.366	73	1118227	105.363	ug/L	96
22) 2-Butanone	4.716	43	212766	67.277	ug/L	94
27) 1,2-Dichloroethane	5.797	62	357147	77.851	ug/L	100
29) Cyclohexane	5.391	56	118386	20.864	ug/L	95
34) Trichloroethene	6.543	95	141493	40.338	ug/L	99
35) Methylcyclohexane	6.764	83	360742	61.294	ug/L	96
40) 4-Methyl-2-pentanone	7.797	43	915050	159.754	ug/L	94
42) Toluene	7.970	91	921530	62.132	ug/L	100
46) Tetrachloroethene	8.555	164	57160	20.257	ug/L	97
48) 2-Hexanone	8.690	43	571454	120.639	ug/L	95
51) Chlorobenzene	9.449	112	243842	25.640	ug/L	98

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

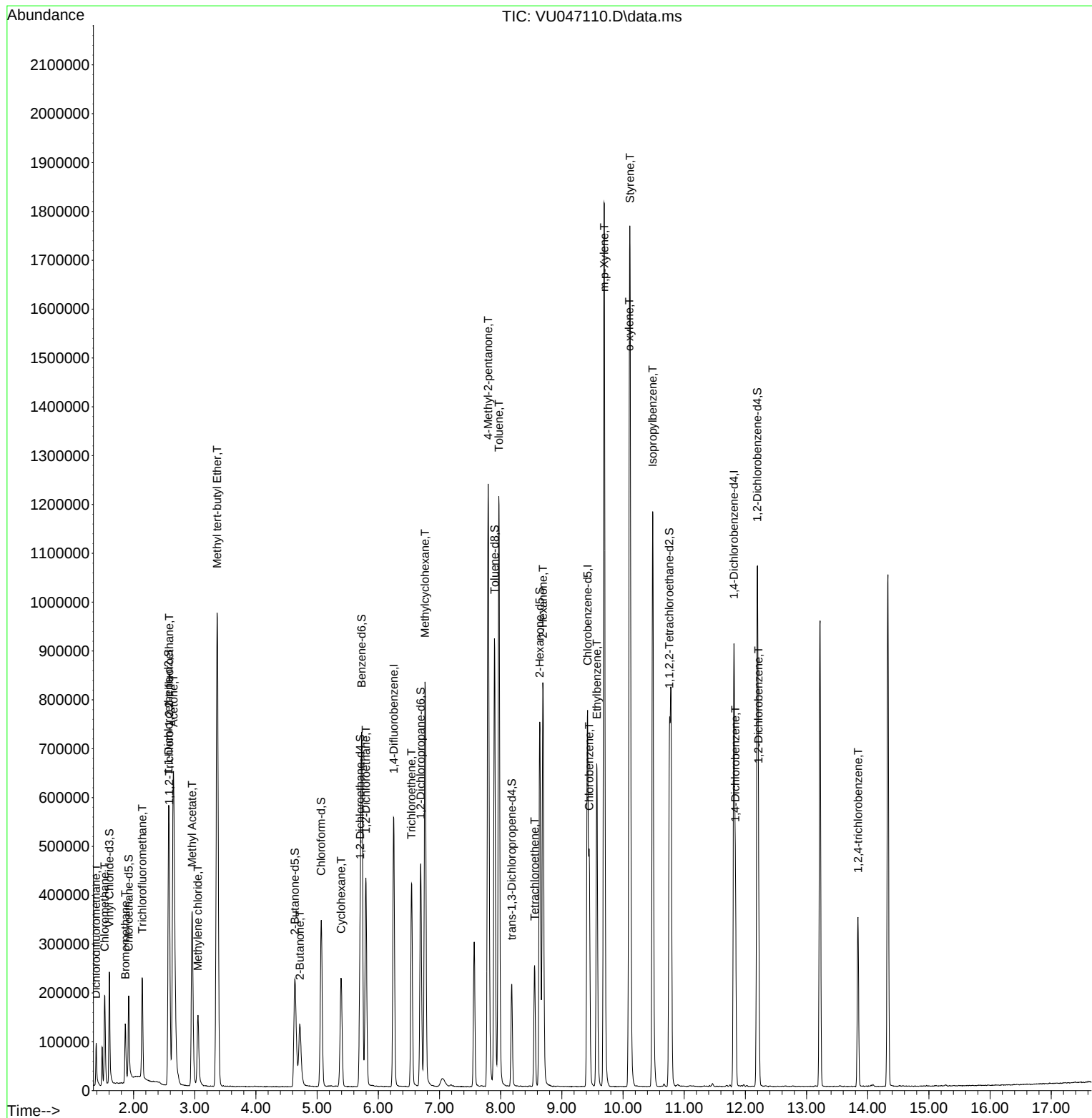
52) Ethylbenzene	9.571	91	505983	31.171	ug/L	100
53) m,p-Xylene	9.694	106	545981	84.776	ug/L	95
54) o-xylene	10.102	106	260466	41.076	ug/L	97
55) Styrene	10.115	104	665688	61.011	ug/L	98
61) Isopropylbenzene	10.485	105	844008	51.361	ug/L	99
65) 1,4-Dichlorobenzene	11.838	146	158916	20.618	ug/L	97
67) 1,2-Dichlorobenzene	12.214	146	159509	20.904	ug/L	99
70) 1,2,4-trichlorobenzene	13.841	180	107307	19.091	ug/L	99

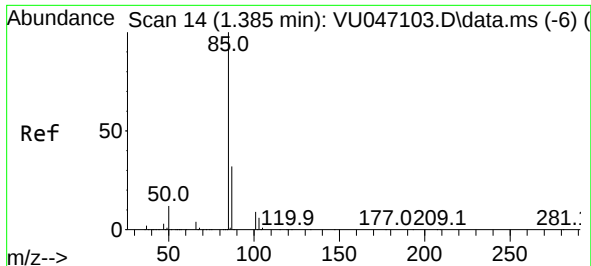
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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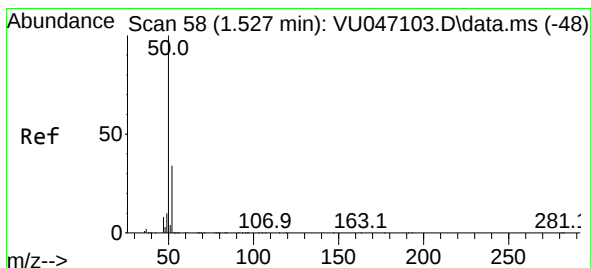
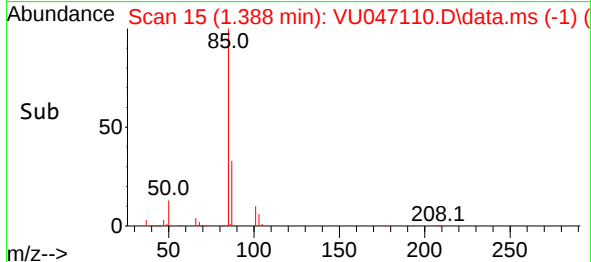
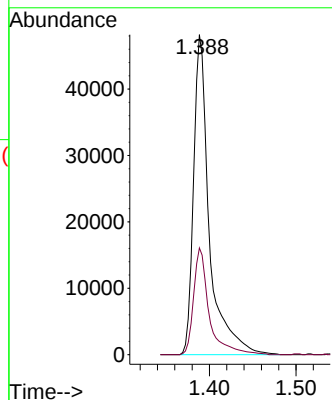
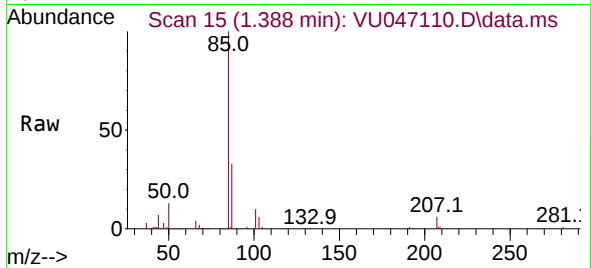




#2
Dichlorodifluoromethane
Concen: 14.231 ug/L
RT: 1.388 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU047110.D
Acq: 11 Feb 2022 13:22

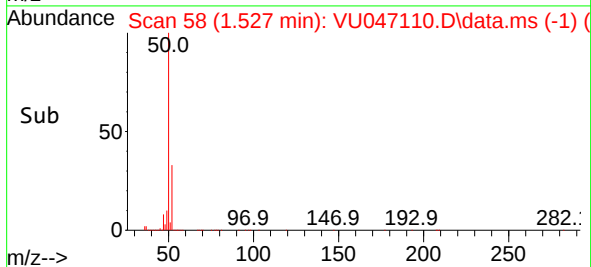
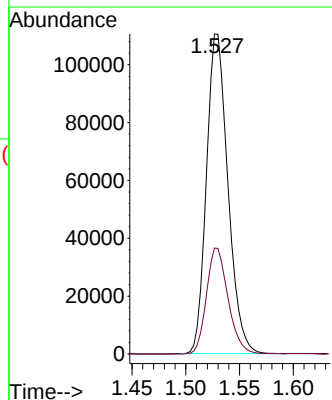
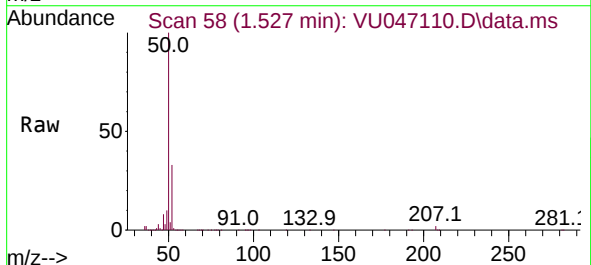
Instrument :
MSVOA_U
ClientSampleId :
X3941

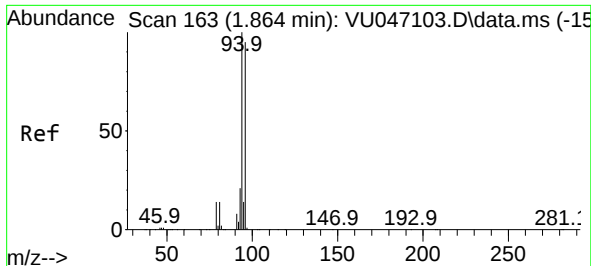
Tgt Ion: 85 Resp: 60911
Ion Ratio Lower Upper
85 100
87 33.0 25.6 38.4



#3
Chloromethane
Concen: 36.315 ug/L
RT: 1.527 min Scan# 58
Delta R.T. 0.000 min
Lab File: VU047110.D
Acq: 11 Feb 2022 13:22

Tgt Ion: 50 Resp: 153809
Ion Ratio Lower Upper
50 100
52 33.1 23.2 43.2

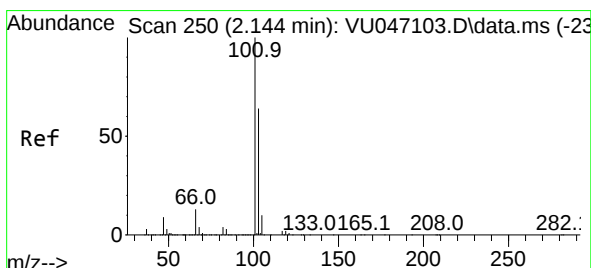
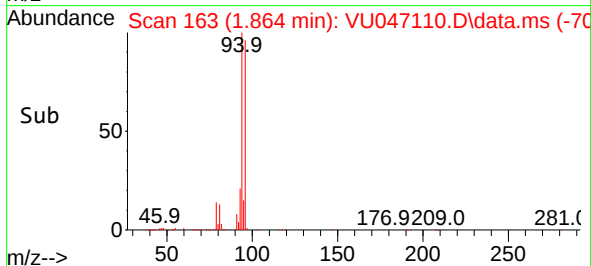
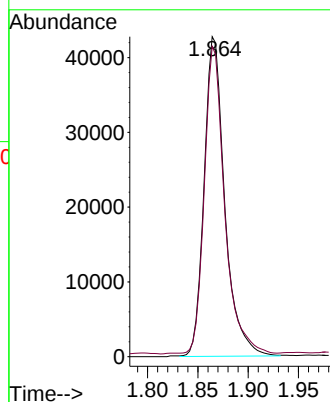
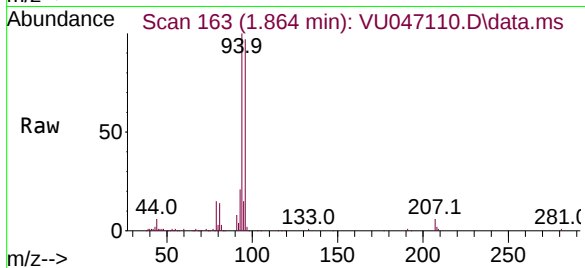




#6
Bromomethane
Concen: 24.665 ug/L
RT: 1.864 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU047110.D
Acq: 11 Feb 2022 13:22

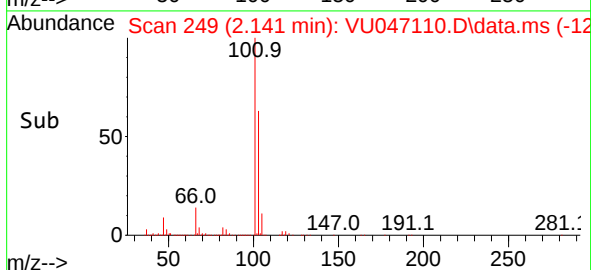
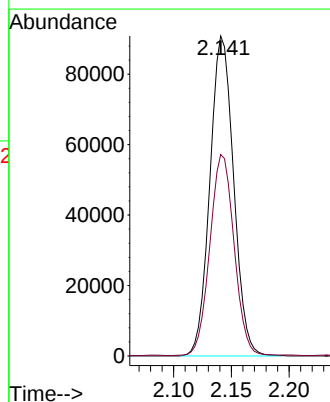
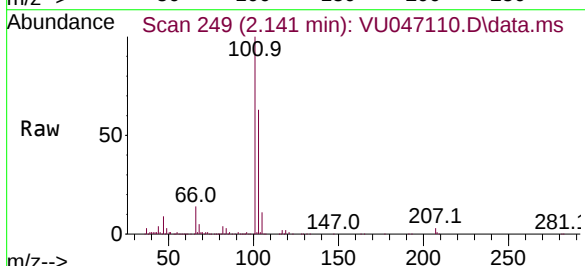
Instrument :
MSVOA_U
ClientSampleId :
X3941

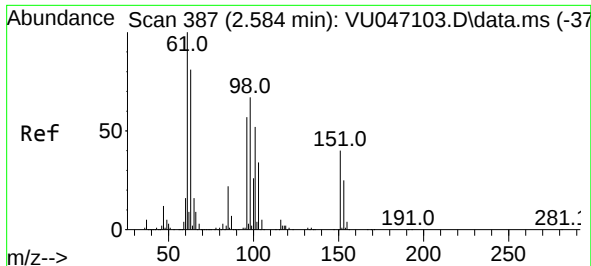
Tgt Ion: 94 Resp: 61238
Ion Ratio Lower Upper
94 100
96 96.9 64.4 119.6



#9
Trichlorofluoromethane
Concen: 26.270 ug/L
RT: 2.141 min Scan# 249
Delta R.T. -0.003 min
Lab File: VU047110.D
Acq: 11 Feb 2022 13:22

Tgt Ion: 101 Resp: 129843
Ion Ratio Lower Upper
101 100
103 64.0 52.0 78.0

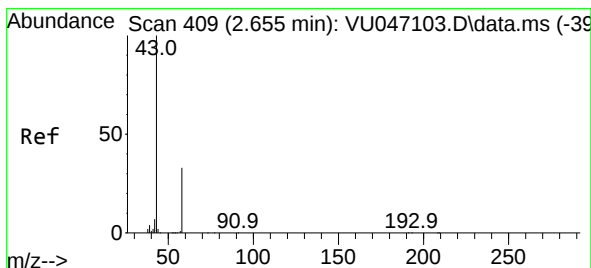
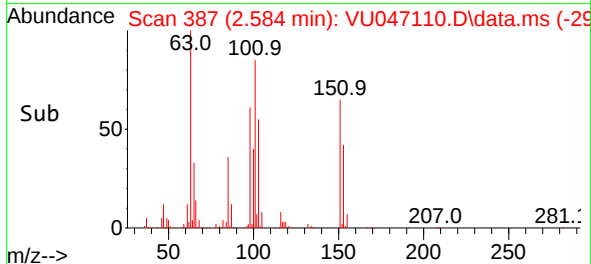
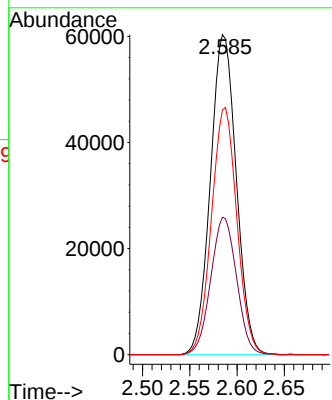
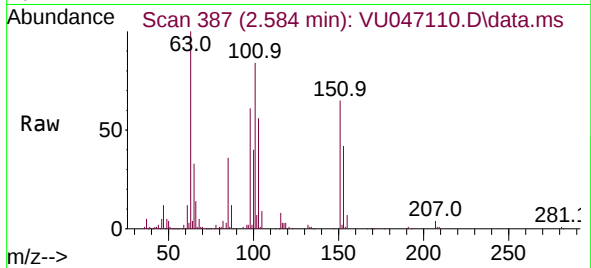




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 37.797 ug/L
RT: 2.584 min Scan# 387
Delta R.T. 0.000 min
Lab File: VU047110.D
Acq: 11 Feb 2022 13:22

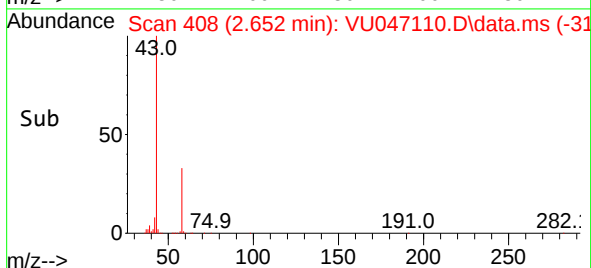
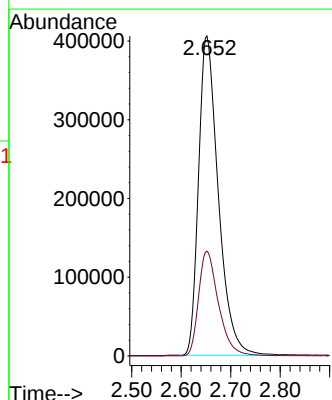
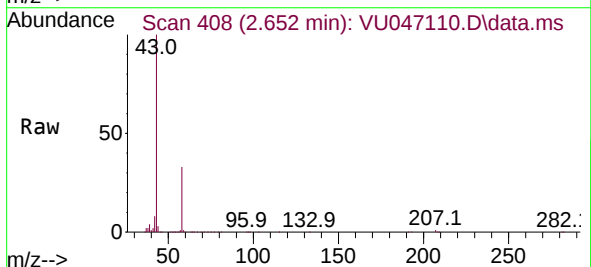
Instrument :
MSVOA_U
ClientSampleId :
X3941

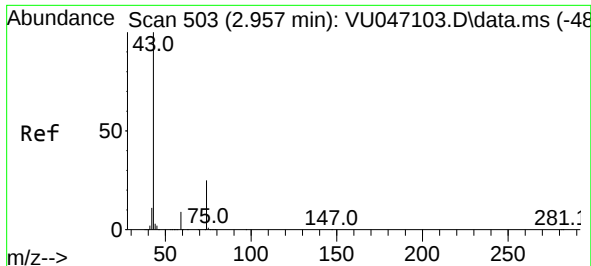
Tgt Ion:101 Resp: 115075
Ion Ratio Lower Upper
101 100
85 42.7 34.9 52.3
151 75.8 58.3 87.5



#13
Acetone
Concen: 478.029 ug/L
RT: 2.652 min Scan# 408
Delta R.T. -0.003 min
Lab File: VU047110.D
Acq: 11 Feb 2022 13:22

Tgt Ion: 43 Resp: 1126724
Ion Ratio Lower Upper
43 100
58 33.0 0.0 71.0

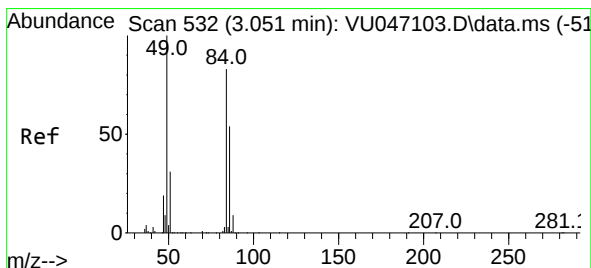
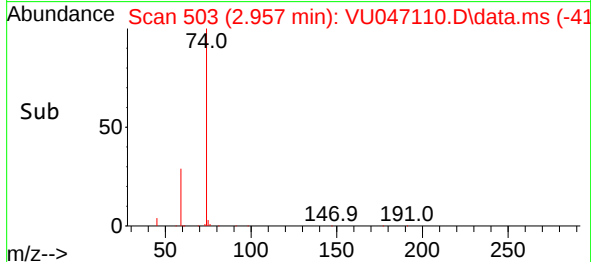
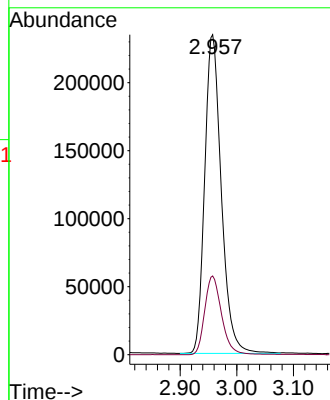
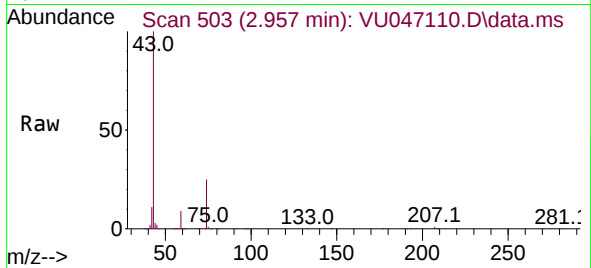




#15
Methyl Acetate
Concen: 120.278 ug/L
RT: 2.957 min Scan# 503
Delta R.T. 0.000 min
Lab File: VU047110.D
Acq: 11 Feb 2022 13:22

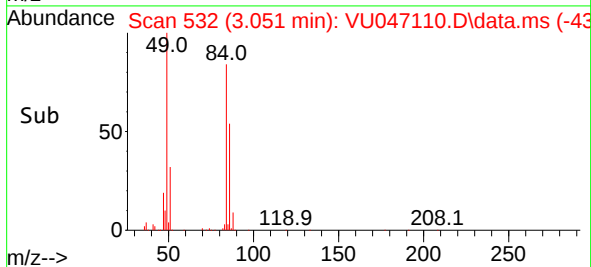
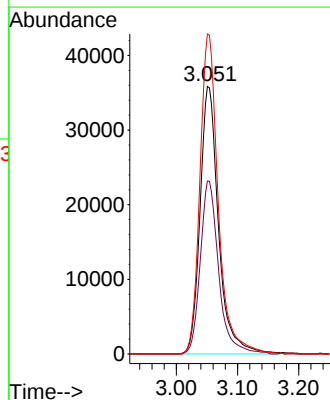
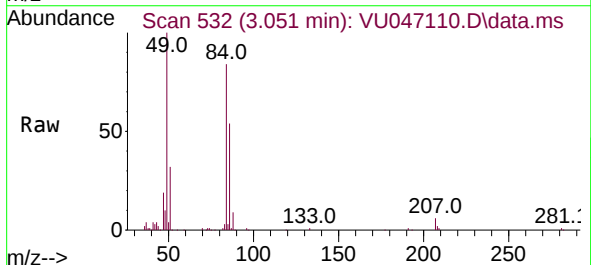
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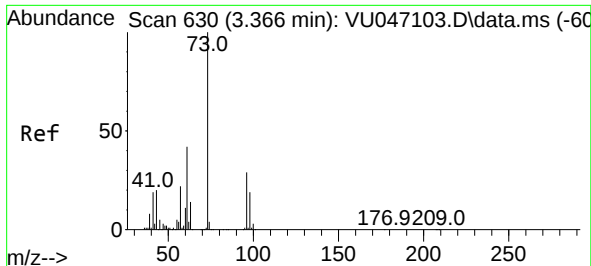
Tgt Ion: 43 Resp: 477075
Ion Ratio Lower Upper
43 100
74 24.9 22.3 33.5



#16
Methylene chloride
Concen: 22.818 ug/L
RT: 3.051 min Scan# 532
Delta R.T. 0.000 min
Lab File: VU047110.D
Acq: 11 Feb 2022 13:22

Tgt Ion: 84 Resp: 75426
Ion Ratio Lower Upper
84 100
86 64.6 44.7 82.9
49 119.6 75.9 141.1



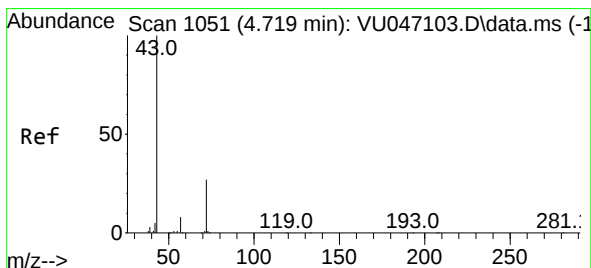
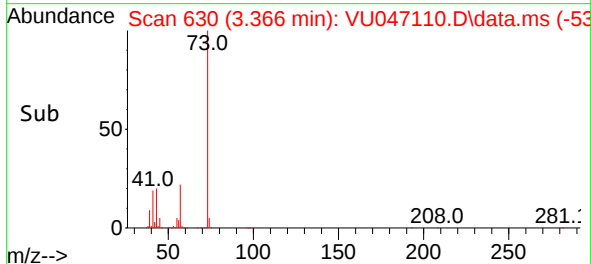
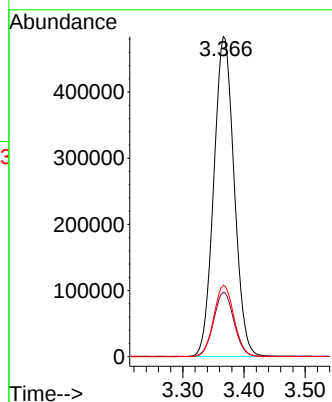
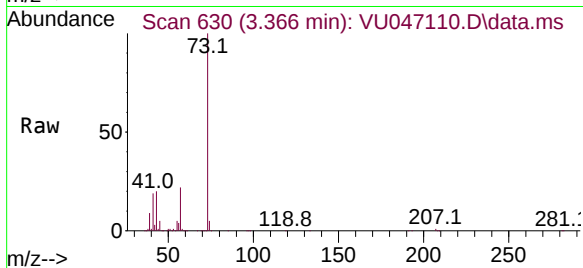


#18
Methyl tert-butyl Ether
Concen: 105.363 ug/L
RT: 3.366 min Scan# 611
Delta R.T. 0.000 min
Lab File: VU047110.D
Acq: 11 Feb 2022 13:22

Instrument :
MSVOA_U
ClientSampleId :
X3941

Tgt Ion: 73 Resp: 1118227

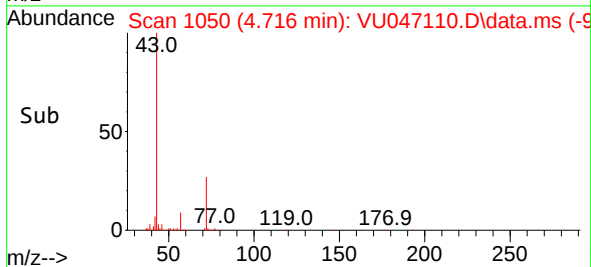
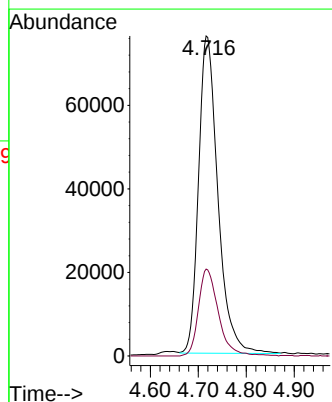
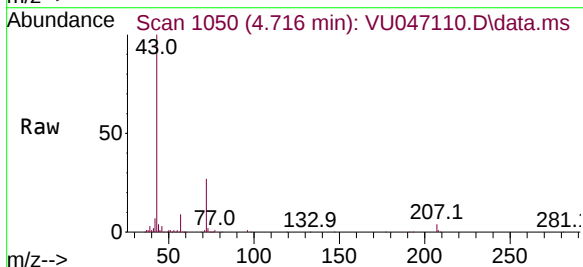
Ion	Ratio	Lower	Upper
73	100		
43	20.0	14.1	21.1
57	22.2	16.4	24.6

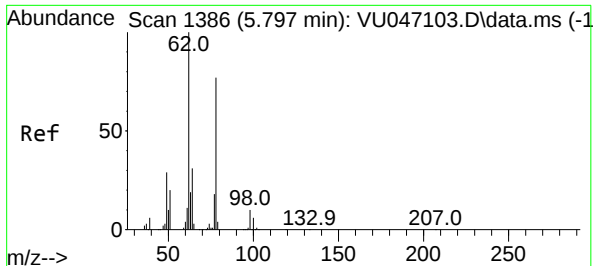


#22
2-Butanone
Concen: 67.277 ug/L
RT: 4.716 min Scan# 1050
Delta R.T. -0.003 min
Lab File: VU047110.D
Acq: 11 Feb 2022 13:22

Tgt Ion: 43 Resp: 212766

Ion	Ratio	Lower	Upper
43	100		
72	27.6	15.6	46.8





#27

1,2-Dichloroethane

Concen: 77.851 ug/L

RT: 5.797 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU047110.D

Acq: 11 Feb 2022 13:22

Instrument :

MSVOA_U

ClientSampleId :

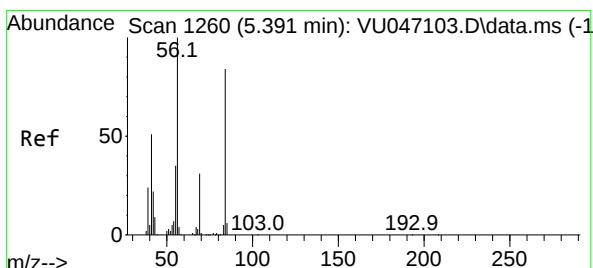
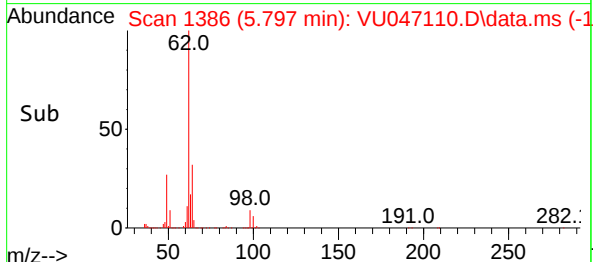
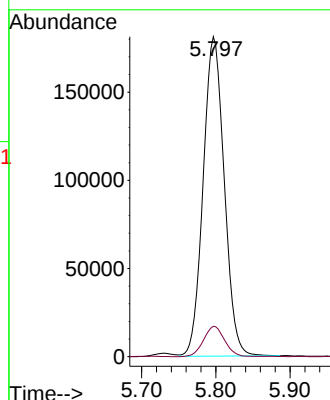
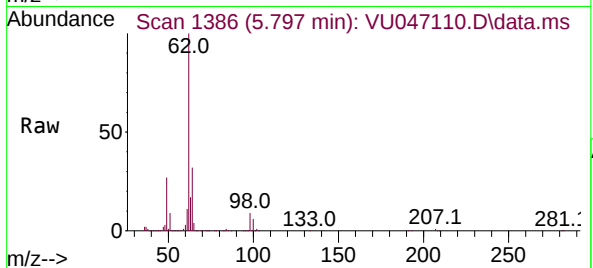
X3941

Tgt Ion: 62 Resp: 357147

Ion Ratio Lower Upper

62 100

98 9.5 7.7 11.5



#29

Cyclohexane

Concen: 20.864 ug/L

RT: 5.391 min Scan# 1260

Delta R.T. 0.000 min

Lab File: VU047110.D

Acq: 11 Feb 2022 13:22

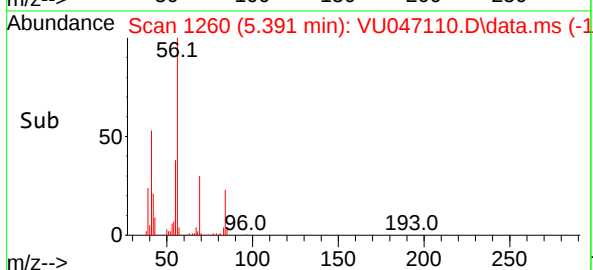
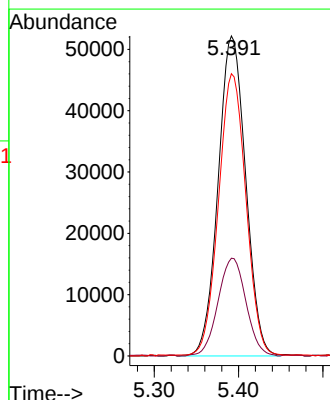
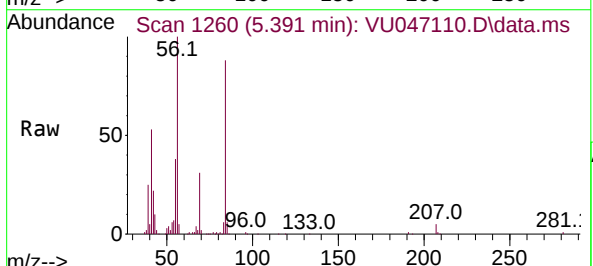
Tgt Ion: 56 Resp: 118386

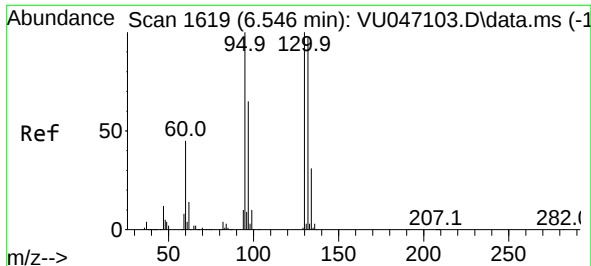
Ion Ratio Lower Upper

56 100

69 31.0 25.8 38.6

84 87.5 74.2 111.2



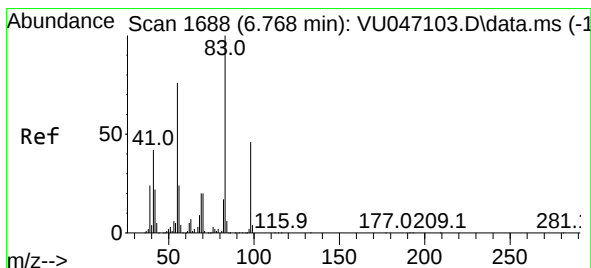
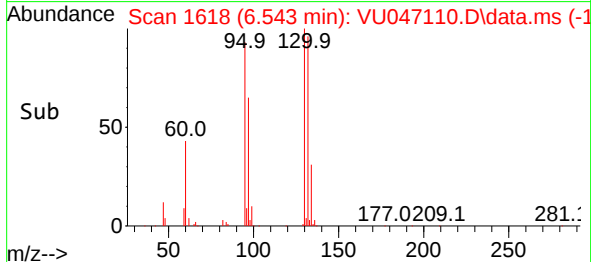
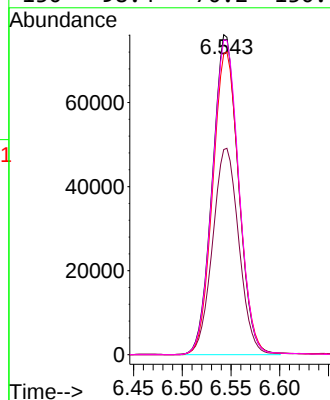
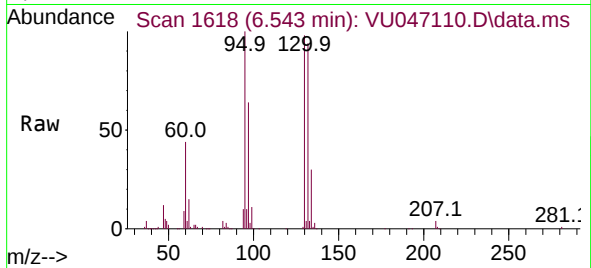


#34
Trichloroethene
Concen: 40.338 ug/L
RT: 6.543 min Scan# 1619
Delta R.T. -0.003 min
Lab File: VU047110.D
Acq: 11 Feb 2022 13:22

Instrument :
MSVOA_U
ClientSampleId :
X3941

Tgt Ion: 95 Resp: 141493

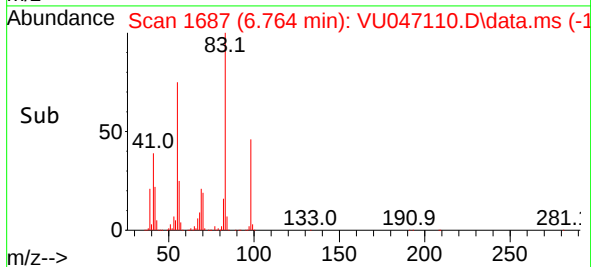
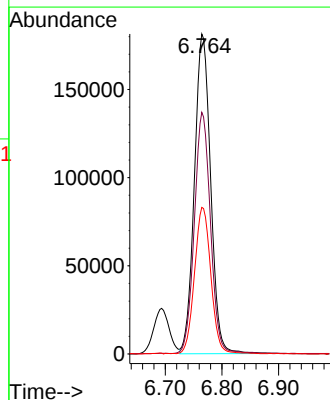
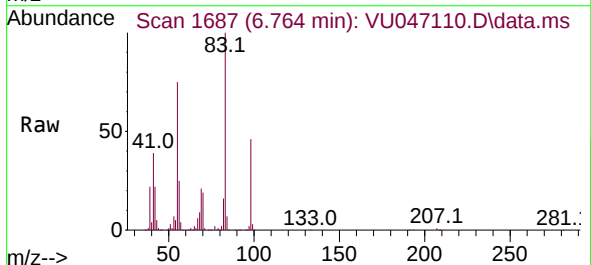
Ion	Ratio	Lower	Upper
95	100		
97	64.1	45.1	83.7
132	94.0	66.7	123.9
130	98.4	70.2	130.4

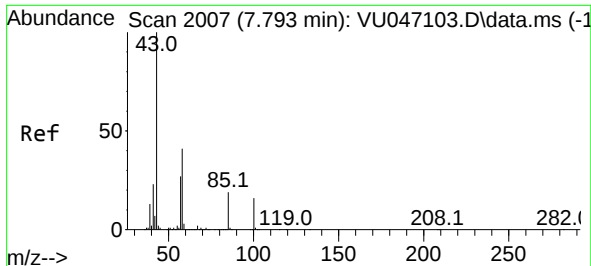


#35
Methylcyclohexane
Concen: 61.294 ug/L
RT: 6.764 min Scan# 1687
Delta R.T. -0.003 min
Lab File: VU047110.D
Acq: 11 Feb 2022 13:22

Tgt Ion: 83 Resp: 360742

Ion	Ratio	Lower	Upper
83	100		
55	74.8	56.6	85.0
98	45.9	38.4	57.6





#40

4-Methyl-2-pentanone

Concen: 159.754 ug/L

RT: 7.797 min Scan# 2007

Delta R.T. 0.003 min

Lab File: VU047110.D

Acq: 11 Feb 2022 13:22

Instrument :

MSVOA_U

ClientSampleId :

X3941

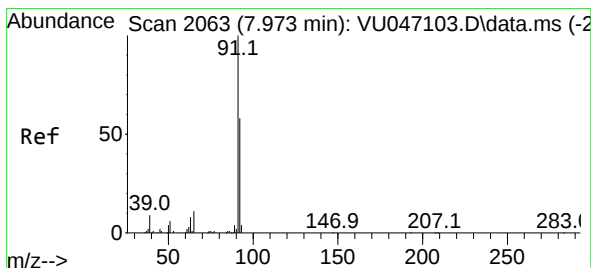
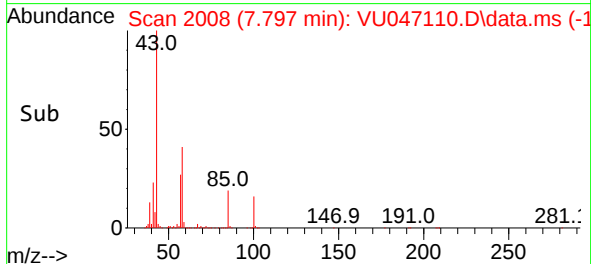
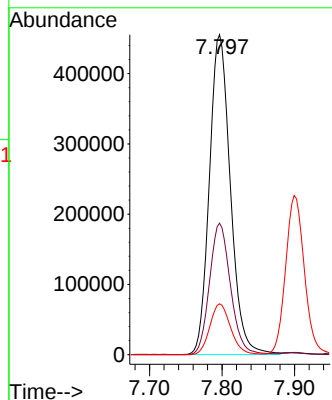
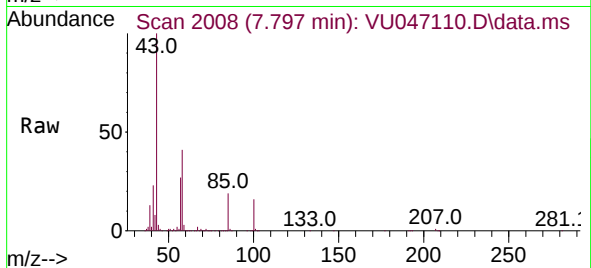
Tgt Ion: 43 Resp: 915050

Ion Ratio Lower Upper

43 100

58 41.2 35.8 53.8

100 15.8 15.7 23.5



#42

Toluene

Concen: 62.132 ug/L

RT: 7.970 min Scan# 2062

Delta R.T. -0.003 min

Lab File: VU047110.D

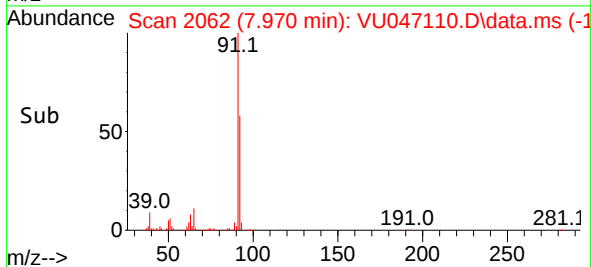
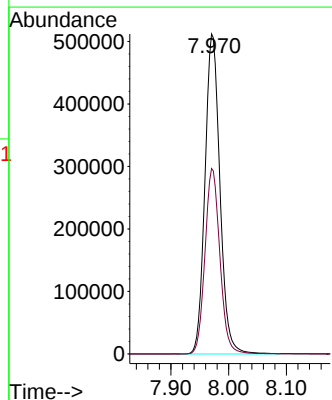
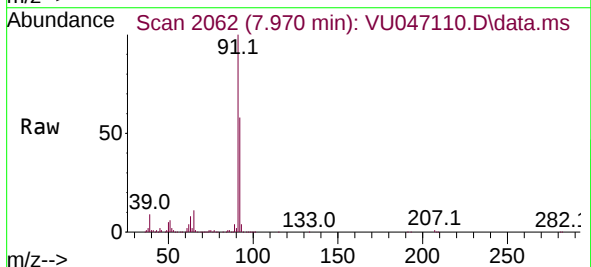
Acq: 11 Feb 2022 13:22

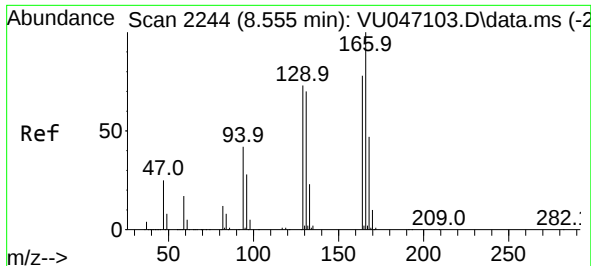
Tgt Ion: 91 Resp: 921530

Ion Ratio Lower Upper

91 100

92 58.0 40.4 75.0

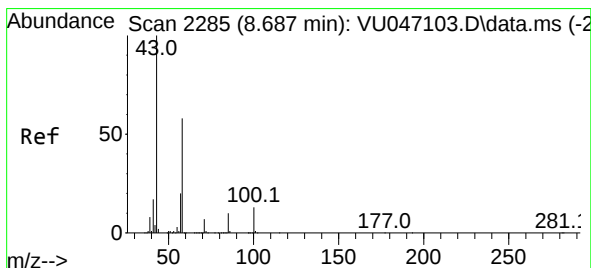
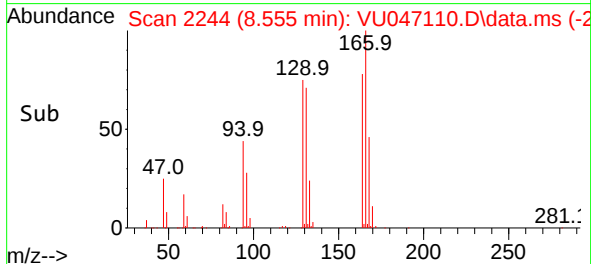
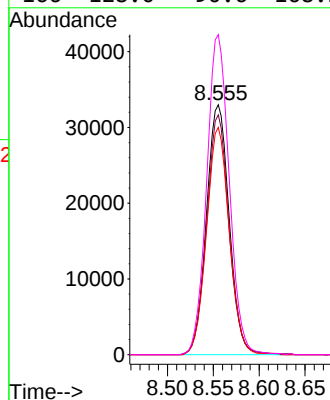
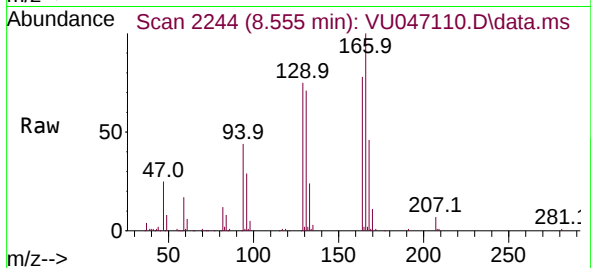




#46
Tetrachloroethene
Concen: 20.257 ug/L
RT: 8.555 min Scan# 211
Delta R.T. 0.000 min
Lab File: VU047110.D
Acq: 11 Feb 2022 13:22

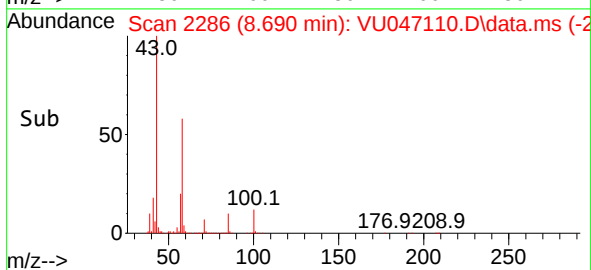
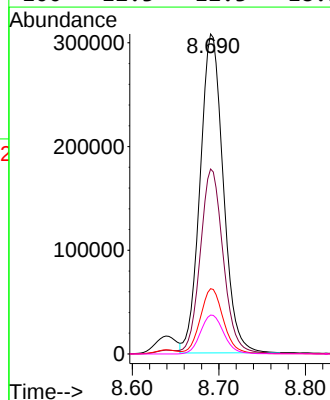
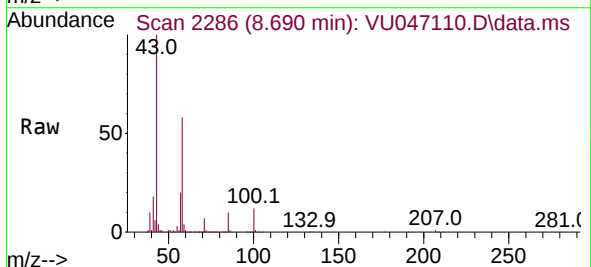
Instrument :
MSVOA_U
ClientSampleId :
X3941

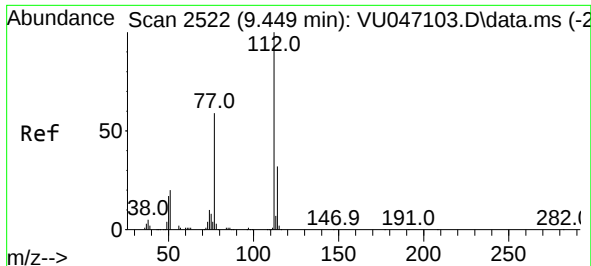
Tgt Ion:	164	Resp:	57160
Ion	Ratio	Lower	Upper
164	100		
129	96.0	69.5	129.1
131	90.9	67.0	124.4
166	128.0	90.6	168.2



#48
2-Hexanone
Concen: 120.639 ug/L
RT: 8.690 min Scan# 2286
Delta R.T. 0.003 min
Lab File: VU047110.D
Acq: 11 Feb 2022 13:22

Tgt Ion:	43	Resp:	571454
Ion	Ratio	Lower	Upper
43	100		
58	57.6	49.4	74.2
57	20.4	17.5	26.3
100	12.3	12.3	18.5

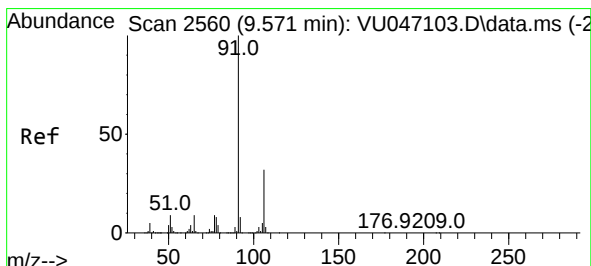
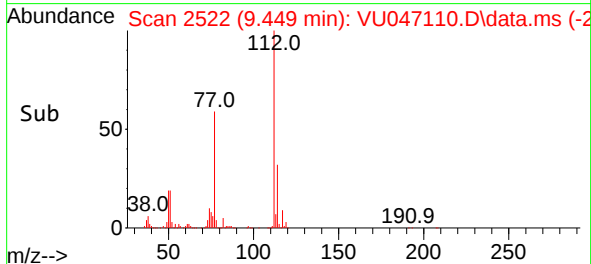
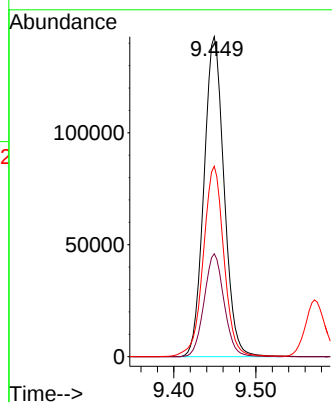
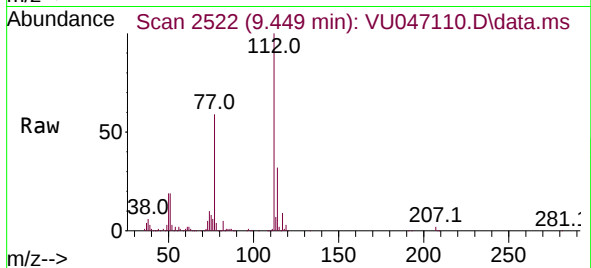




#51
Chlorobenzene
Concen: 25.640 ug/L
RT: 9.449 min Scan# 2522
Delta R.T. 0.000 min
Lab File: VU047110.D
Acq: 11 Feb 2022 13:22

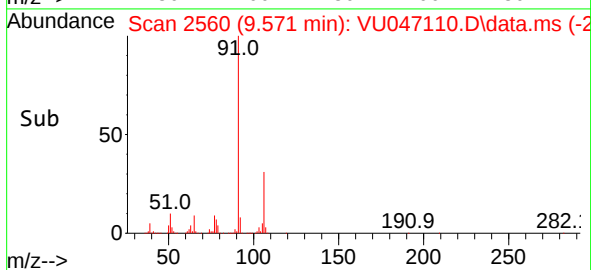
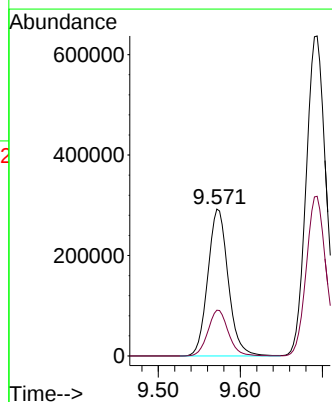
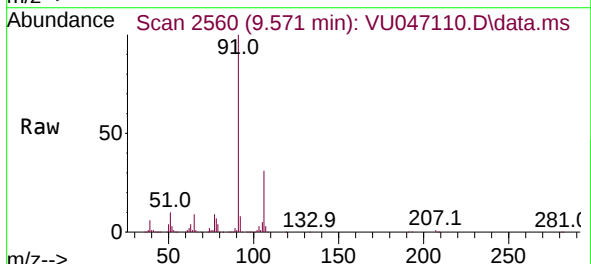
Instrument :
MSVOA_U
ClientSampleId :
X3941

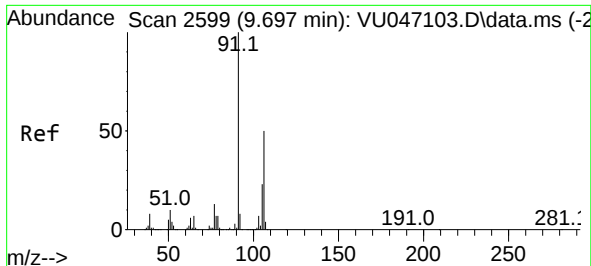
Tgt Ion:112 Resp: 243842
Ion Ratio Lower Upper
112 100
114 32.1 22.1 41.1
77 59.5 46.5 69.7



#52
Ethylbenzene
Concen: 31.171 ug/L
RT: 9.571 min Scan# 2560
Delta R.T. 0.000 min
Lab File: VU047110.D
Acq: 11 Feb 2022 13:22

Tgt Ion: 91 Resp: 505983
Ion Ratio Lower Upper
91 100
106 31.2 21.8 40.4

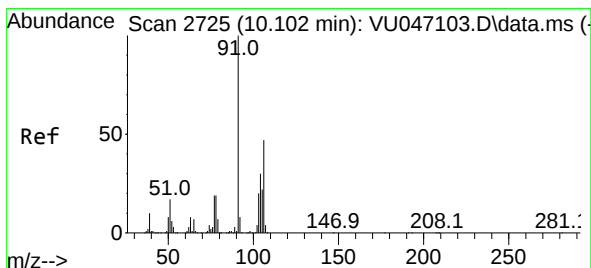
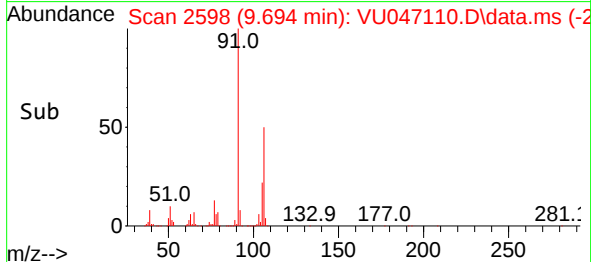
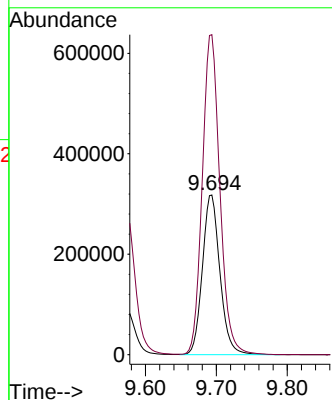
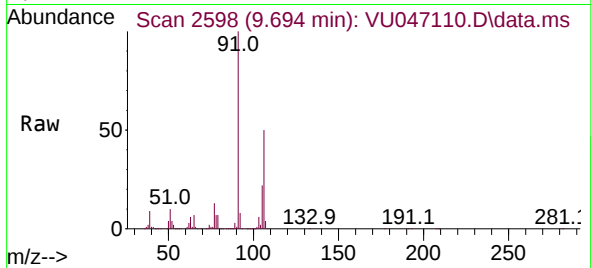




#53
m,p-Xylene
Concen: 84.776 ug/L
RT: 9.694 min Scan# 2599
Delta R.T. -0.003 min
Lab File: VU047110.D
Acq: 11 Feb 2022 13:22

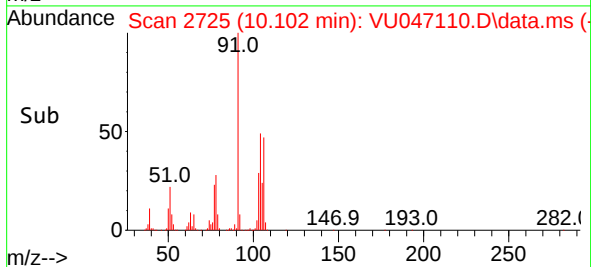
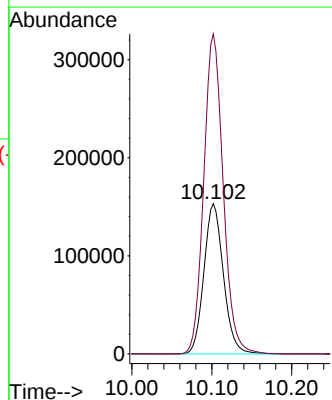
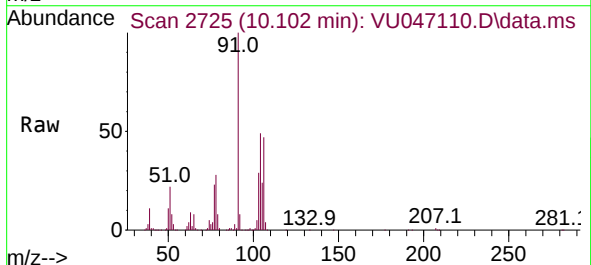
Instrument :
MSVOA_U
ClientSampleId :
X3941

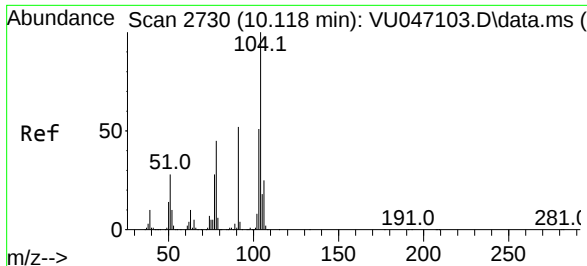
Tgt Ion:106 Resp: 545981
Ion Ratio Lower Upper
106 100
91 200.4 145.5 270.1



#54
o-xylene
Concen: 41.076 ug/L
RT: 10.102 min Scan# 2725
Delta R.T. 0.000 min
Lab File: VU047110.D
Acq: 11 Feb 2022 13:22

Tgt Ion:106 Resp: 260466
Ion Ratio Lower Upper
106 100
91 213.0 152.0 282.2

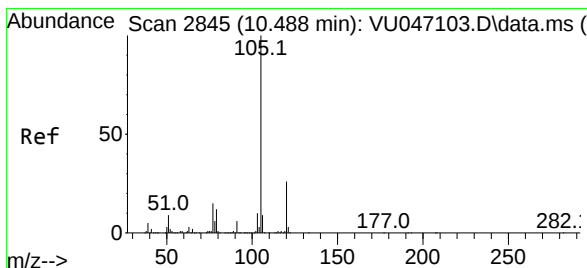
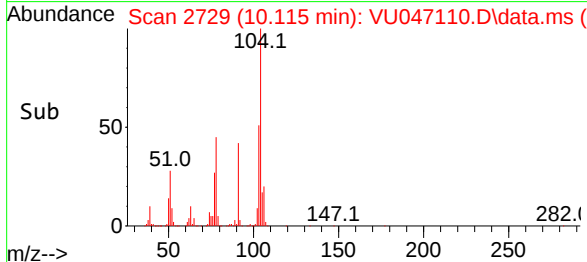
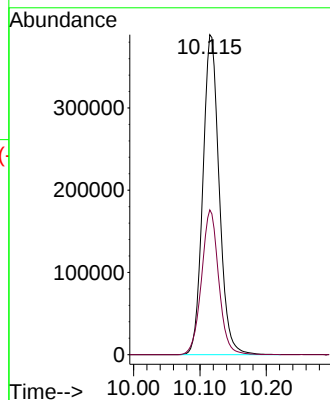
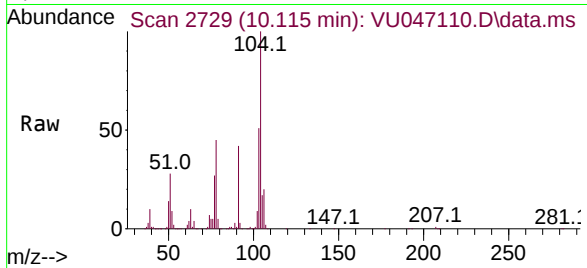




#55
Styrene
Concen: 61.011 ug/L
RT: 10.115 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU047110.D
Acq: 11 Feb 2022 13:22

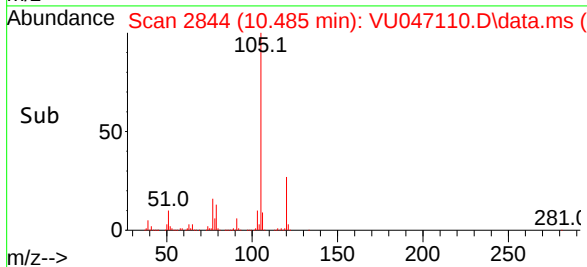
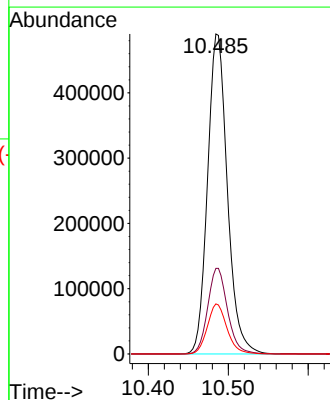
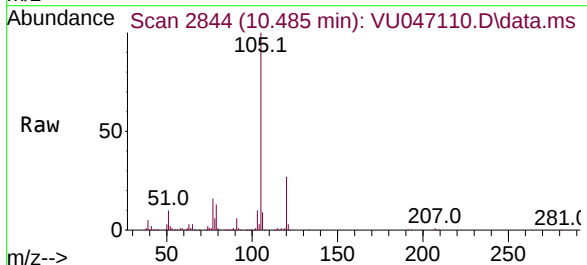
Instrument :
MSVOA_U
ClientSampleId :
X3941

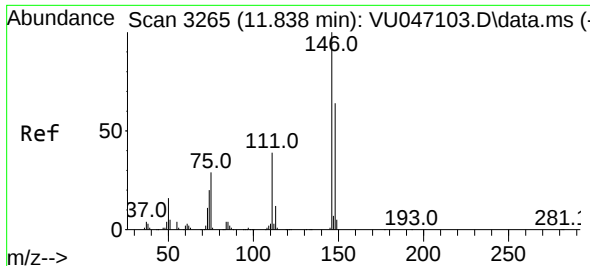
Tgt Ion:104 Resp: 665688
Ion Ratio Lower Upper
104 100
78 45.3 32.6 60.6



#61
Isopropylbenzene
Concen: 51.361 ug/L
RT: 10.485 min Scan# 2844
Delta R.T. -0.003 min
Lab File: VU047110.D
Acq: 11 Feb 2022 13:22

Tgt Ion:105 Resp: 844008
Ion Ratio Lower Upper
105 100
120 26.8 20.6 31.0
77 15.5 12.6 18.8

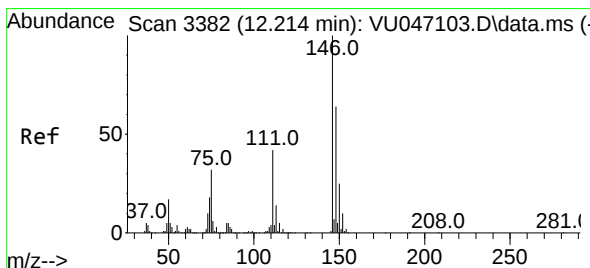
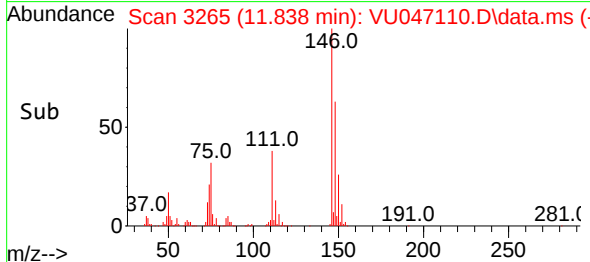
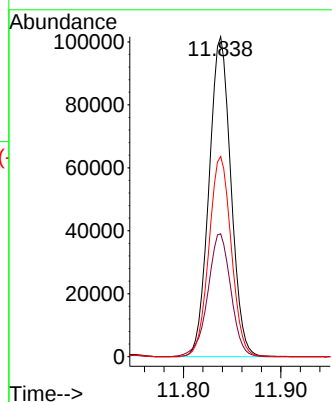
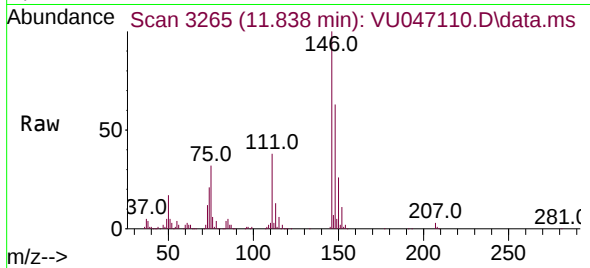




#65
1,4-Dichlorobenzene
Concen: 20.618 ug/L
RT: 11.838 min Scan# 31
Delta R.T. 0.000 min
Lab File: VU047110.D
Acq: 11 Feb 2022 13:22

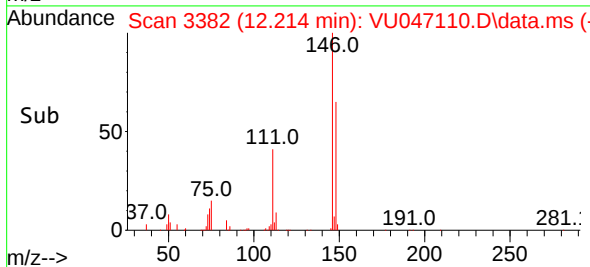
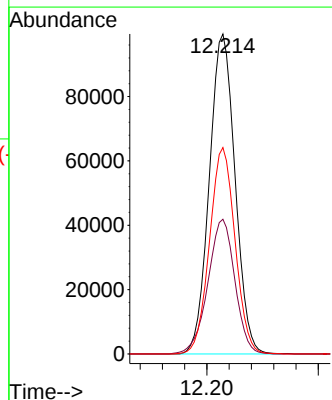
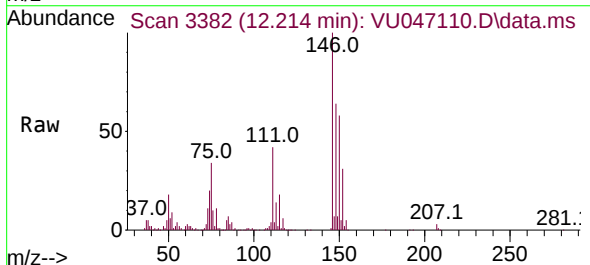
Instrument :
MSVOA_U
ClientSampleId :
X3941

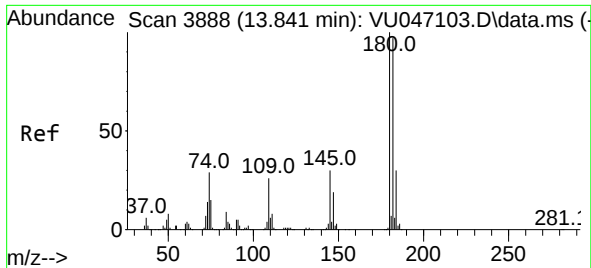
Tgt Ion:146 Resp: 158916
Ion Ratio Lower Upper
146 100
111 38.4 28.9 53.7
148 62.5 44.5 82.7



#67
1,2-Dichlorobenzene
Concen: 20.904 ug/L
RT: 12.214 min Scan# 3382
Delta R.T. 0.000 min
Lab File: VU047110.D
Acq: 11 Feb 2022 13:22

Tgt Ion:146 Resp: 159509
Ion Ratio Lower Upper
146 100
111 42.1 34.2 51.4
148 64.5 51.3 76.9





#70

1,2,4-trichlorobenzene

Concen: 19.091 ug/L

RT: 13.841 min Scan# 3888

Delta R.T. 0.000 min

Lab File: VU047110.D

Acq: 11 Feb 2022 13:22

Instrument :

MSVOA_U

ClientSampleId :

X3941

Tgt Ion:180 Resp: 107307

Ion Ratio Lower Upper

180 100

182 96.2 76.6 114.8

145 29.9 25.2 37.8

