

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU011320\
 Data File : VU036439.D
 Acq On : 13 Jan 2020 15:46
 Operator : JC/MD
 Sample : L1071-06
 Misc : 5.0/5.0 mL/100uL/5.0mL/MSVOA_U/METHANOL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 X2L44

Quant Time: Jan 21 12:04:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122719WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Jan 15 16:40:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	527627	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	517620	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	251894	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	162417	39.50	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	79.00%
7) Chloroethane-d5	1.89	69	106407	30.68	ug/L	-0.04
Spiked Amount	50.000	Range	70 - 130	Recovery	=	61.36%#
11) 1,1-Dichloroethene-d2	2.55	63	224785	32.09	ug/L	-0.04
Spiked Amount	50.000	Range	60 - 125	Recovery	=	64.18%
21) 2-Butanone-d5	4.69	46	233309	76.20	ug/L	0.02
Spiked Amount	100.000	Range	40 - 130	Recovery	=	76.20%
24) Chloroform-d	5.10	84	329234	45.88	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.76%
26) 1,2-Dichloroethane-d4	5.74	65	231657	48.69	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.38%
32) Benzene-d6	5.76	84	649145	45.05	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.10%
36) 1,2-Dichloropropane-d6	6.73	67	217033	44.91	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	89.82%
41) Toluene-d8	7.93	98	600680	43.42	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	86.84%
43) trans-1,3-Dichloropropene-	8.21	79	117814	44.92	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.84%
47) 2-Hexanone-d5	8.68	63	237681	95.35	ug/L	0.02
Spiked Amount	100.000	Range	45 - 130	Recovery	=	95.35%
57) 1,1,2,2-Tetrachloroethane-	10.79	84	341346	46.57	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	93.14%
64) 1,2-Dichlorobenzene-d4	12.22	152	233213	44.14	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	88.28%

Target Compounds

						Qvalue
13) Acetone	2.68	43	649180	204.43	ug/L	99
17) trans-1,2-Dichloroethene	3.37	96	422328	128.12	ug/L	98
30) 1,1,1-Trichloroethane	5.35	97	1088076	171.51	ug/L	99
33) Benzene	5.81	78	1812470	119.20	ug/L	100
34) Trichloroethene	6.57	95	761301	194.21	ug/L	98
37) 1,2-Dichloropropane	6.83	63	417258	101.34	ug/L	100
38) Bromodichloromethane	7.14	83	427774	73.64	ug/L	98
42) Toluene	8.00	91	2291952	136.89	ug/L	100
45) 1,1,2-Trichloroethane	8.43	97	314843	81.96	ug/L	97
46) Tetrachloroethene	8.58	164	260560	92.38	ug/L	98
48) 2-Hexanone	8.73	43	782234	145.30	ug/L	96
50) 1,2-Dibromoethane	8.96	107	320870	72.03	ug/L	97
51) Chlorobenzene	9.48	112	1174869	111.17	ug/L	98
52) Ethylbenzene	9.60	91	1820906	95.55	ug/L	100
53) m,p-Xylene	9.73	106	900875	127.44	ug/L	97
54) o-xylene	10.13	106	193013	27.21	ug/L	97
55) Styrene	10.14	104	1231504	102.69	ug/L	96

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Instrument :
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Quant Title : VOC Analysis
QLast Update : Wed Jan 15 16:40:00 2020
Response via : Initial Calibration

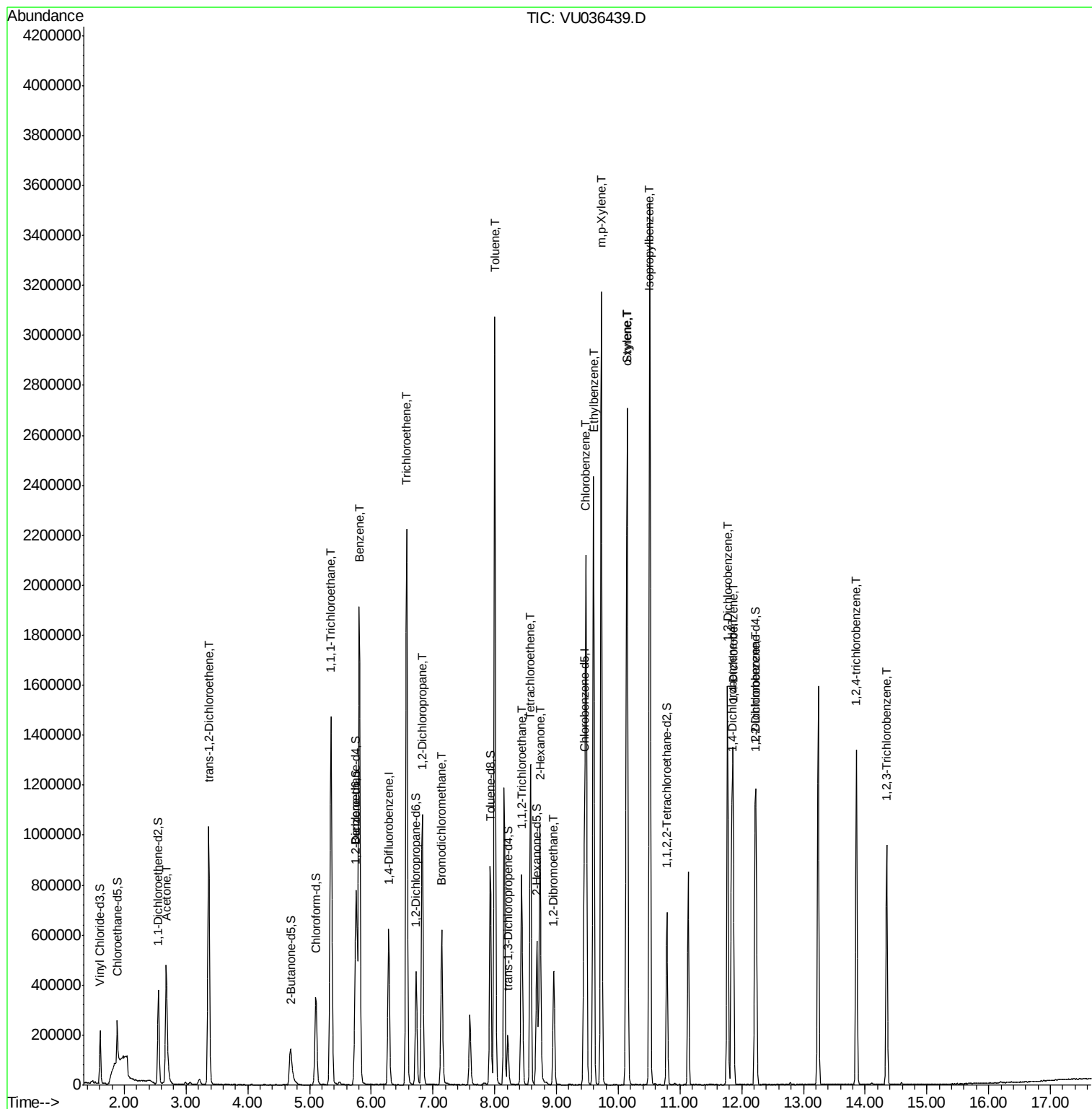
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) Isopropylbenzene	10.51	105	2354257	127.35	ug/L	99
62) 1,3-Dichlorobenzene	11.77	146	625928	76.90	ug/L	95
63) 1,4-Dichlorobenzene	11.86	146	485355	60.11	ug/L	98
65) 1,2-Dichlorobenzene	12.24	146	296183	36.32	ug/L	97
68) 1,2,4-trichlorobenzene	13.86	180	364653	89.01	ug/L	99
70) 1,2,3-Trichlorobenzene	14.35	180	263760	61.31	ug/L	98

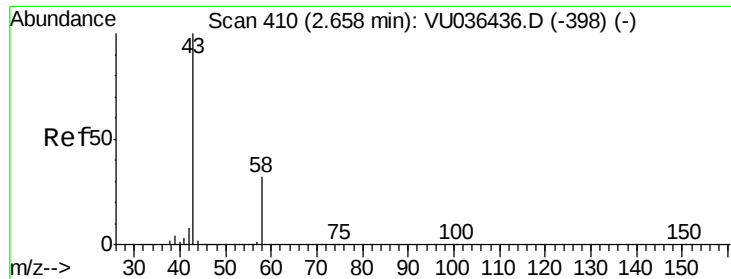
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 204.43 ug/L

RT: 2.68 min Scan# 416

Delta R.T. 0.02 min

Lab File: VU036439.D

Acq: 13 Jan 2020 15:46

Instrument :

MSVOA_U

ClientSampleId :

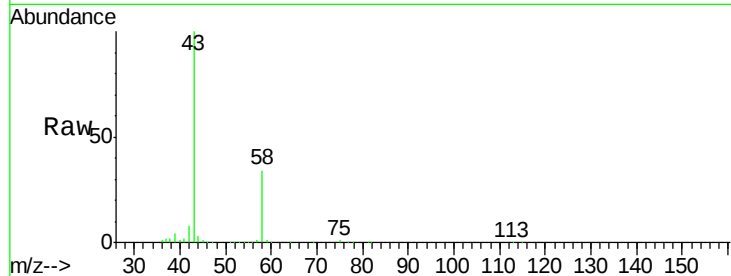
X2L44

Tgt Ion: 43 Resp: 649180

Ion Ratio Lower Upper

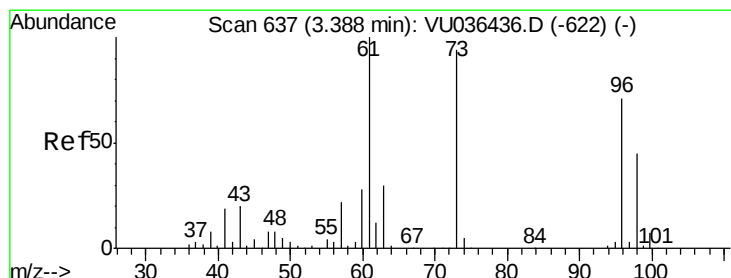
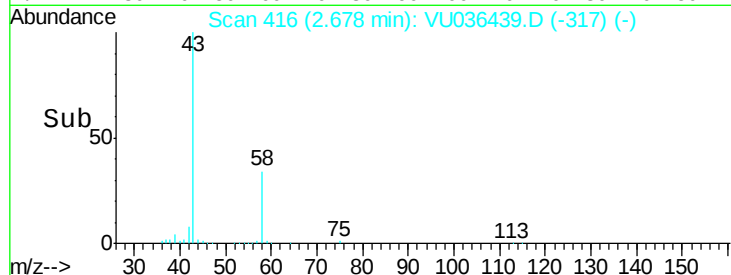
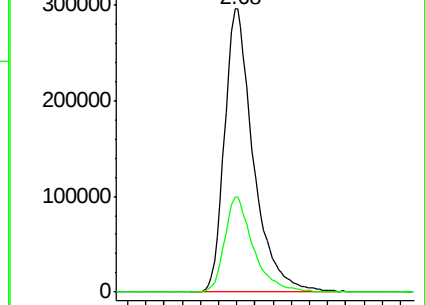
43 100

58 33.7 0.0 66.2



Abundance Ion 43.00 (42.70 to 43.70): VU036439.D (-416) (-)

Ion 58.00 (57.70 to 58.70): VU036439.D (-416) (-)



#17

trans-1,2-Dichloroethene

Concen: 128.12 ug/L

RT: 3.37 min Scan# 630

Delta R.T. -0.02 min

Lab File: VU036439.D

Acq: 13 Jan 2020 15:46

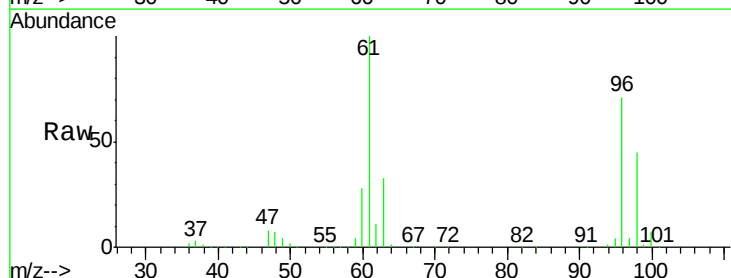
Tgt Ion: 96 Resp: 422328

Ion Ratio Lower Upper

96 100

61 140.8 96.2 178.8

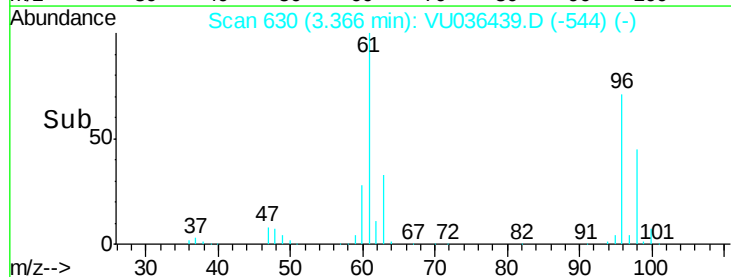
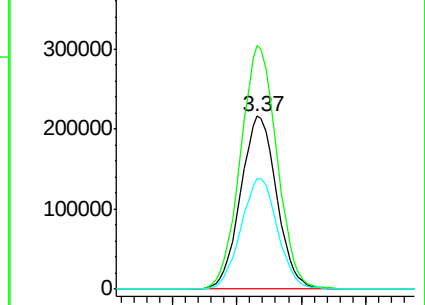
98 63.8 44.2 82.2

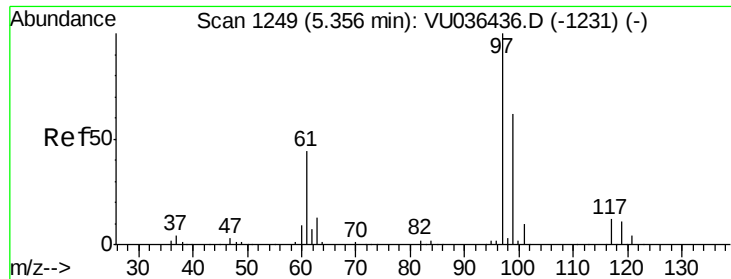


Abundance Ion 96.00 (95.70 to 96.70): VU036439.D (-630) (-)

Ion 61.00 (60.70 to 61.70): VU036439.D (-630) (-)

Ion 98.00 (97.70 to 98.70): VU036439.D (-630) (-)

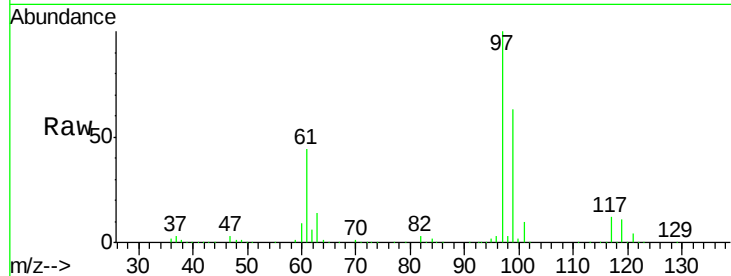




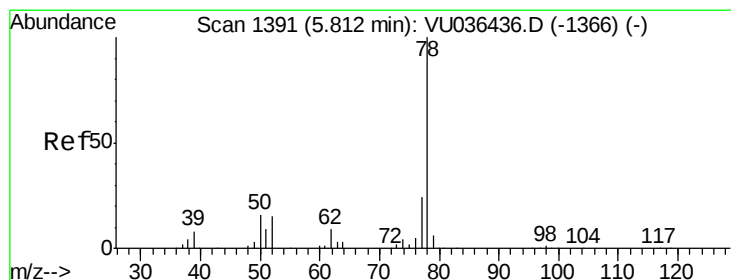
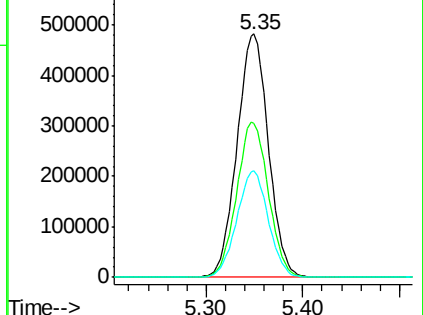
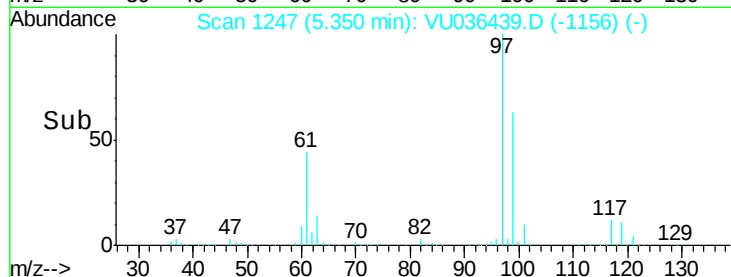
#30
 1,1,1-Trichloroethane
 Concen: 171.51 ug/L
 RT: 5.35 min Scan# 1247
 Delta R.T. -0.01 min
 Lab File: VU036439.D
 Acq: 13 Jan 2020 15:46

Instrument :
 MSVOA_U
 ClientSampleId :
 X2L44

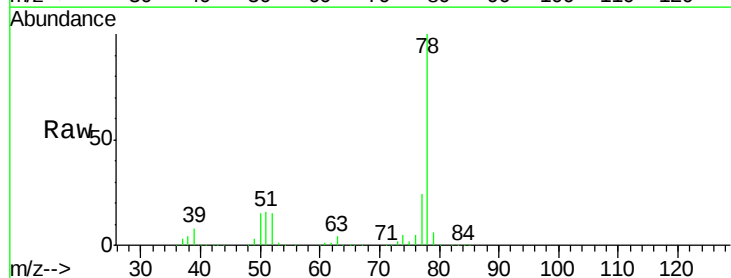
Tgt Ion: 97 Resp: 1088076
 Ion Ratio Lower Upper
 97 100
 99 64.3 51.0 76.4
 61 43.8 34.7 52.1



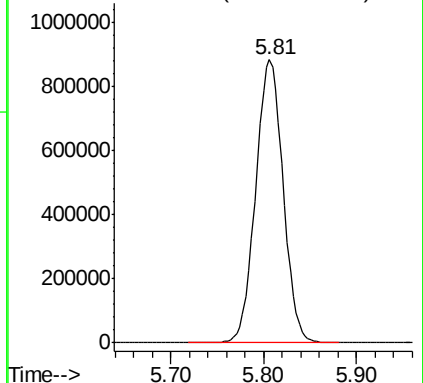
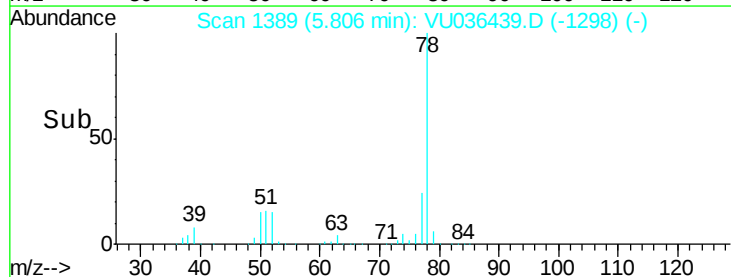
Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0

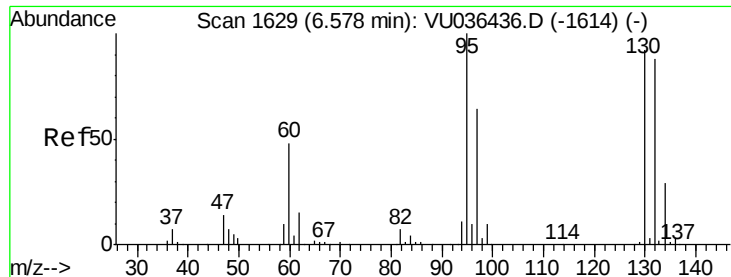


#33
 Benzene
 Concen: 119.20 ug/L
 RT: 5.81 min Scan# 1389
 Delta R.T. -0.01 min
 Lab File: VU036439.D
 Acq: 13 Jan 2020 15:46
 Tgt Ion: 78 Resp: 1812470



Abundance Ion 78.00 (77.70 to 78.70): VU0

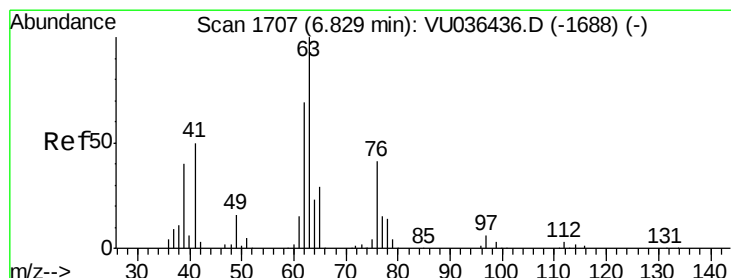
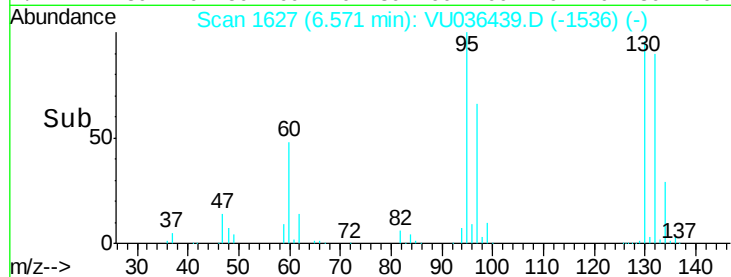
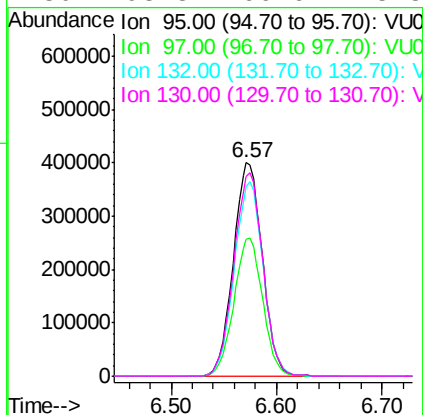
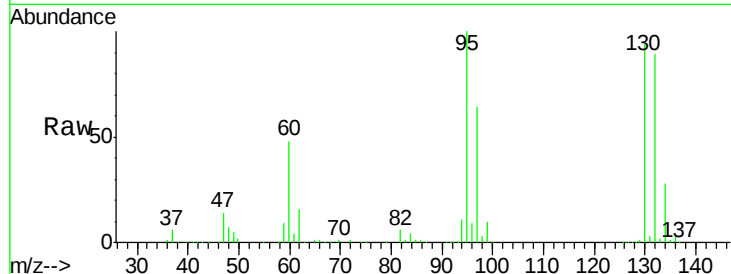




#34
 Trichloroethene
 Concen: 194.21 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. -0.01 min
 Lab File: VU036439.D
 Acq: 13 Jan 2020 15:46

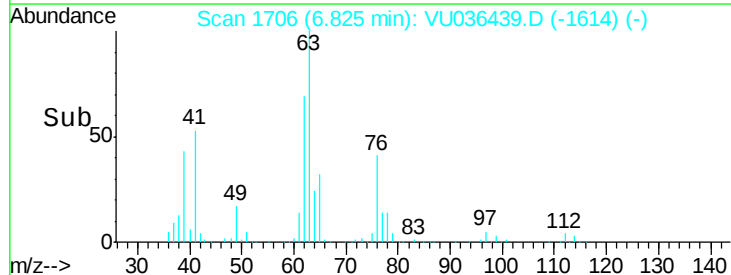
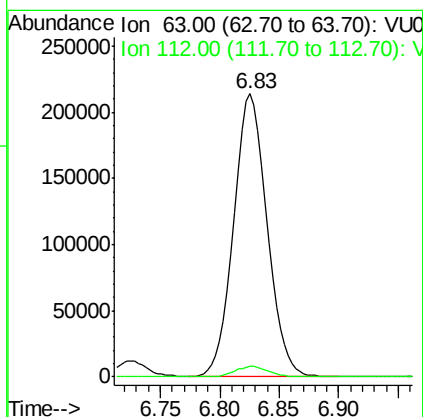
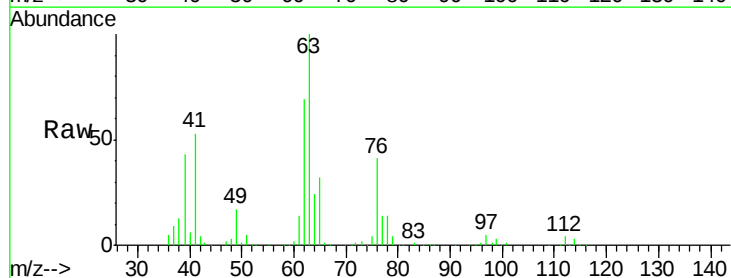
Instrument :
 MSVOA_U
 ClientSampleId :
 X2L44

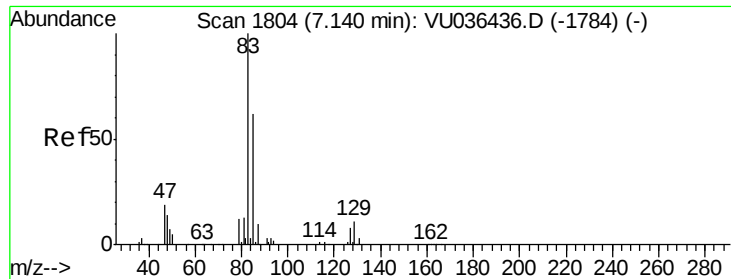
Tgt Ion:	95	Resp:	761301
Ion	Ratio	Lower	Upper
95	100		
97	64.4	44.5	82.7
132	88.5	64.5	119.9
130	93.8	66.6	123.8



#37
 1,2-Dichloropropane
 Concen: 101.34 ug/L
 RT: 6.83 min Scan# 1706
 Delta R.T. -0.00 min
 Lab File: VU036439.D
 Acq: 13 Jan 2020 15:46

Tgt Ion:	63	Resp:	417258
Ion	Ratio	Lower	Upper
63	100		
112	3.8	3.0	4.4

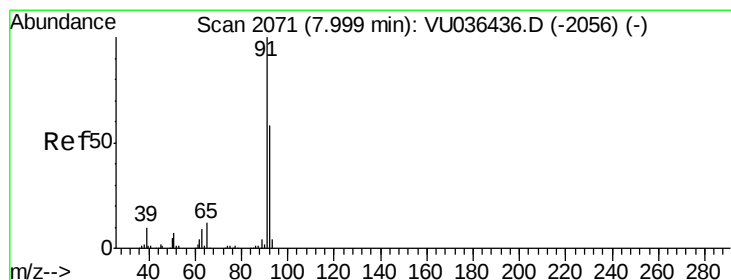
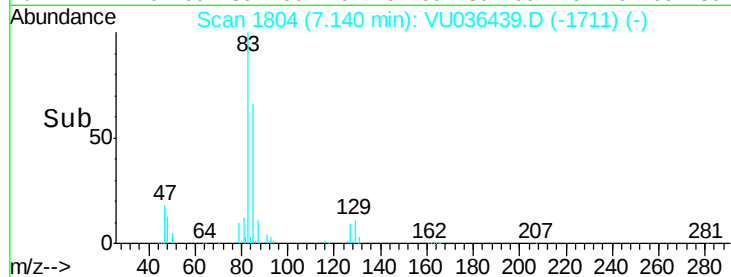
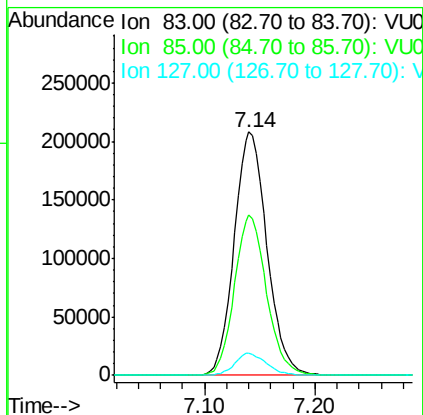
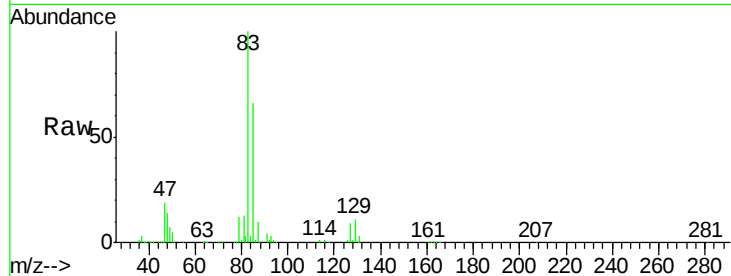




#38
 Bromodichloromethane
 Concen: 73.64 ug/L
 RT: 7.14 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VU036439.D
 Acq: 13 Jan 2020 15:46

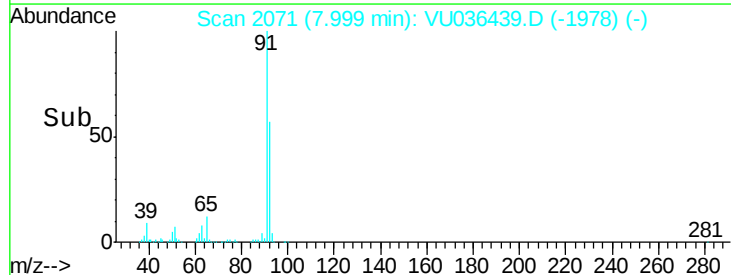
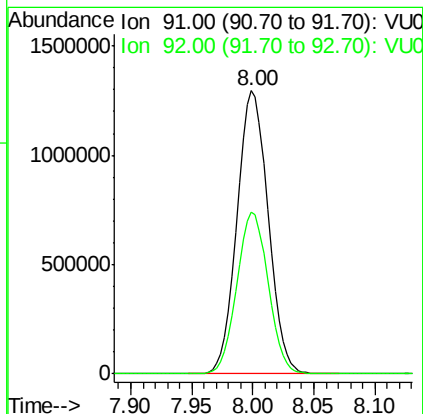
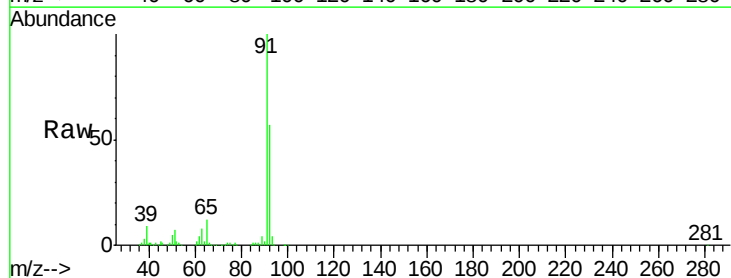
Instrument :
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 X2L44

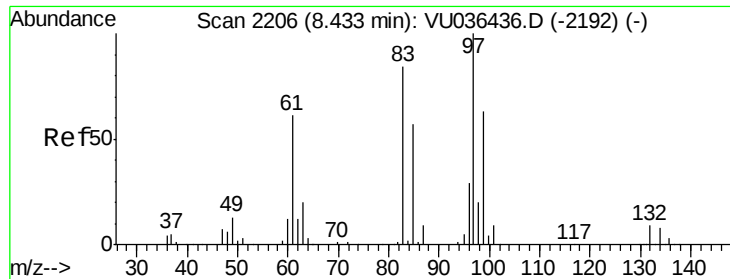
Tgt Ion: 83 Resp: 427774
 Ion Ratio Lower Upper
 83 100
 85 66.0 45.3 84.1
 127 9.1 6.8 10.2



#42
 Toluene
 Concen: 136.89 ug/L
 RT: 8.00 min Scan# 2071
 Delta R.T. 0.00 min
 Lab File: VU036439.D
 Acq: 13 Jan 2020 15:46

Tgt Ion: 91 Resp: 2291952
 Ion Ratio Lower Upper
 91 100
 92 57.2 39.8 74.0





#45

1,1,2-Trichloroethane

Concen: 81.96 ug/L

RT: 8.43 min Scan# 2206

Delta R.T. 0.00 min

Lab File: VU036439.D

Acq: 13 Jan 2020 15:46

Instrument :

MSVOA_U

ClientSampleId :

X2L44

Tgt Ion: 97 Resp: 314843

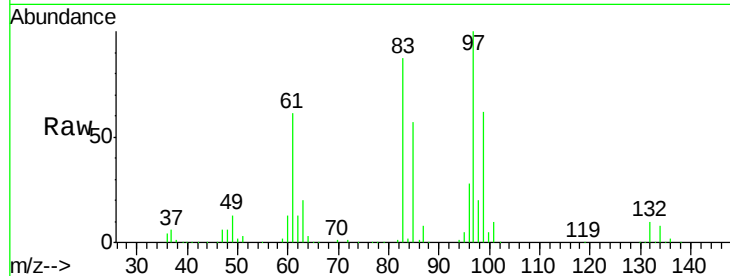
Ion Ratio Lower Upper

97 100

99 62.2 44.2 82.2

83 86.7 62.5 116.1

85 57.3 38.1 70.7

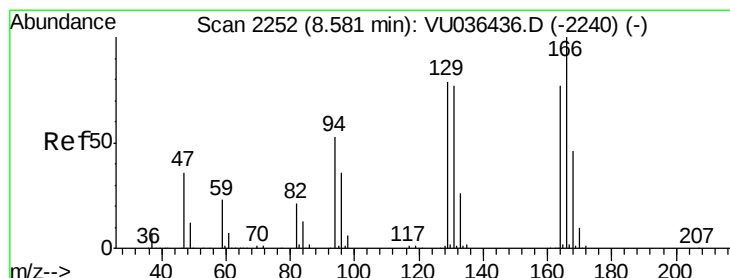
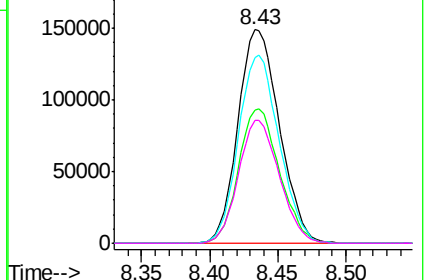
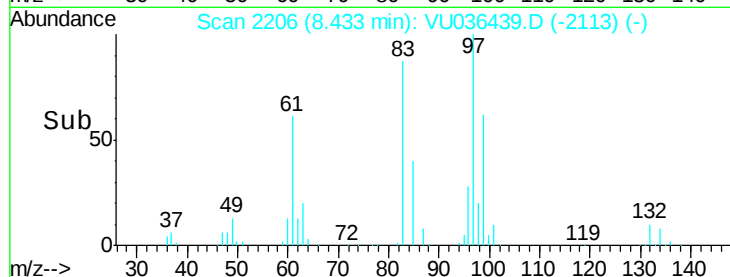


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 92.38 ug/L

RT: 8.58 min Scan# 2252

Delta R.T. 0.00 min

Lab File: VU036439.D

Acq: 13 Jan 2020 15:46

Tgt Ion: 164 Resp: 260560

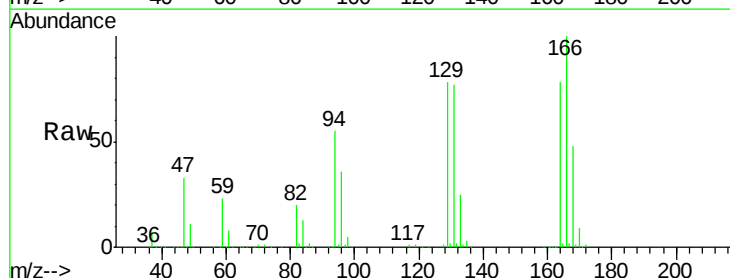
Ion Ratio Lower Upper

164 100

129 100.3 70.0 130.0

131 99.5 70.1 130.1

166 128.8 87.2 161.9

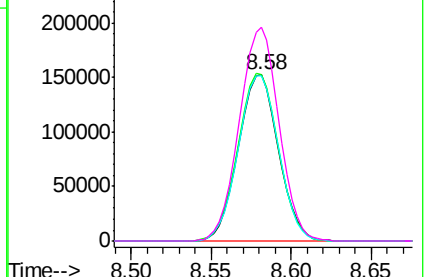
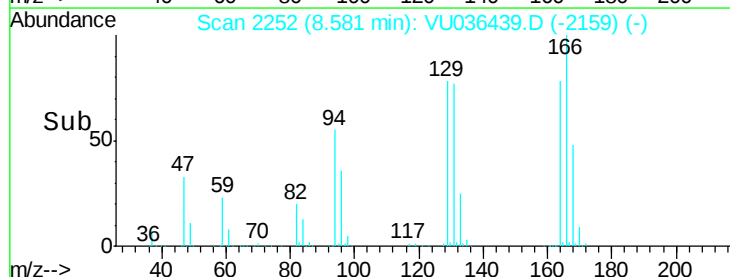


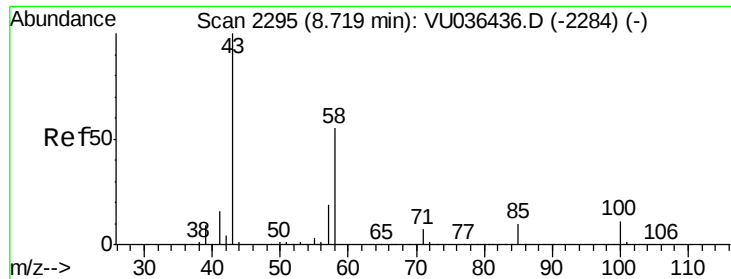
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

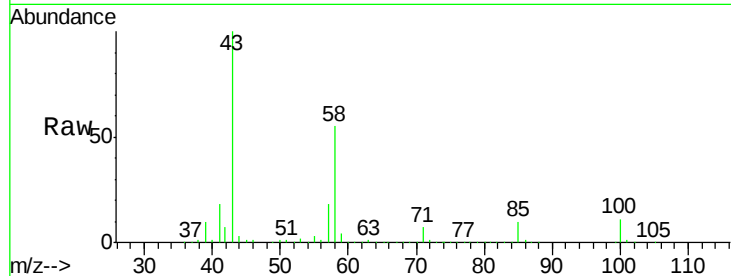




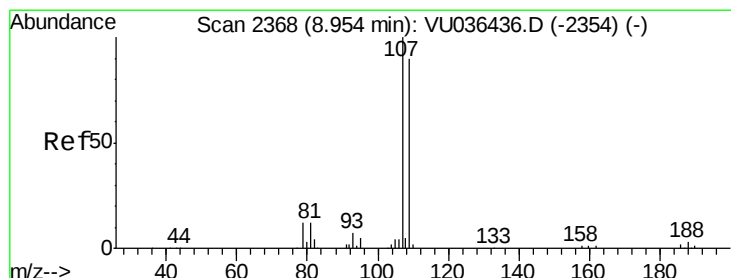
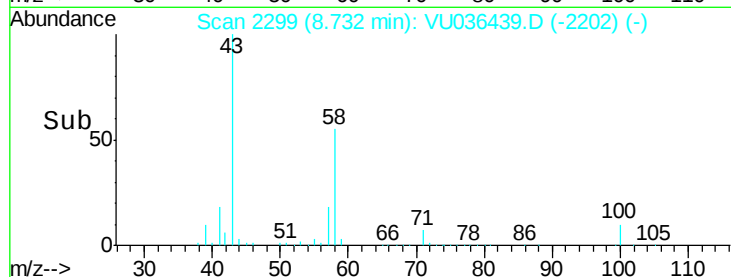
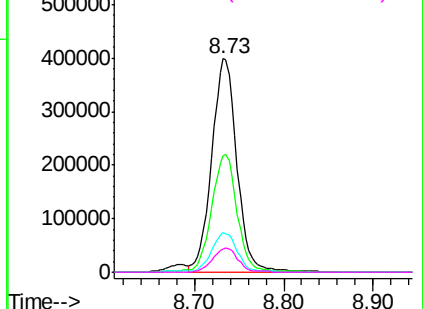
#48
 2-Hexanone
 Concen: 145.30 ug/L
 RT: 8.73 min Scan# 2299
 Delta R.T. 0.01 min
 Lab File: VU036439.D
 Acq: 13 Jan 2020 15:46

Instrument :
 MSVOA_U
 ClientSampleId :
 X2L44

Tgt Ion:	43	Resp:	782234
Ion	Ratio	Lower	Upper
43	100		
58	56.4	42.2	63.4
57	18.9	14.8	22.2
100	11.4	8.8	13.2

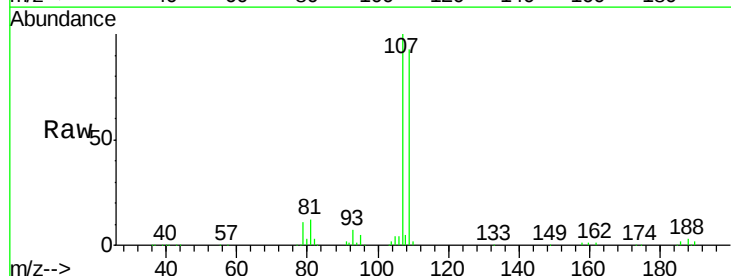


Abundance Ion 43.00 (42.70 to 43.70): VU036439.D (-2299) (-)
 Ion 58.00 (57.70 to 58.70): VU036439.D (-2299) (-)
 Ion 57.00 (56.70 to 57.70): VU036439.D (-2299) (-)
 Ion 100.00 (99.70 to 100.70): VU036439.D (-2299) (-)

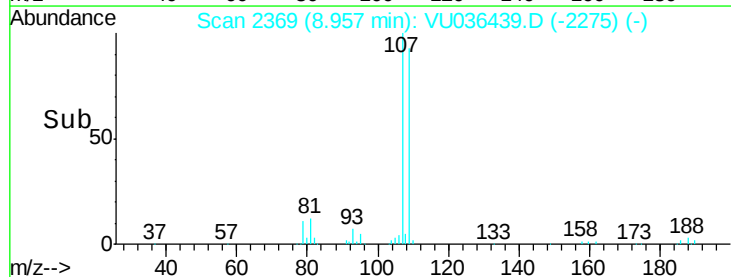
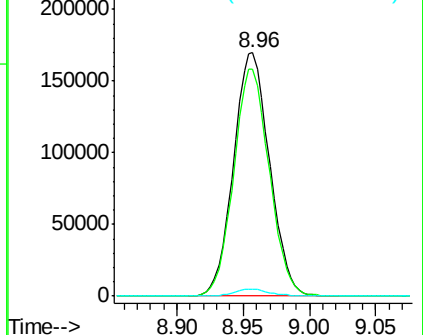


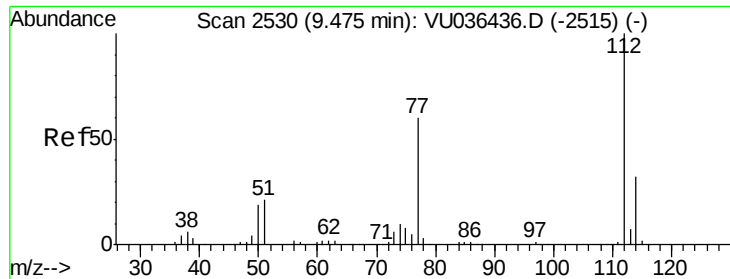
#50
 1,2-Dibromoethane
 Concen: 72.03 ug/L
 RT: 8.96 min Scan# 2369
 Delta R.T. 0.00 min
 Lab File: VU036439.D
 Acq: 13 Jan 2020 15:46

Tgt Ion:	107	Resp:	320870
Ion	Ratio	Lower	Upper
107	100		
109	93.4	67.3	124.9
188	2.9	2.6	3.8



Abundance Ion 107.00 (106.70 to 107.70): VU036439.D (-2369) (-)
 Ion 109.00 (108.70 to 109.70): VU036439.D (-2369) (-)
 Ion 188.00 (187.70 to 188.70): VU036439.D (-2369) (-)





#51

Chlorobenzene

Concen: 111.17 ug/L

RT: 9.48 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU036439.D

Acq: 13 Jan 2020 15:46

Instrument :

MSVOA_U

ClientSampleId :

X2L44

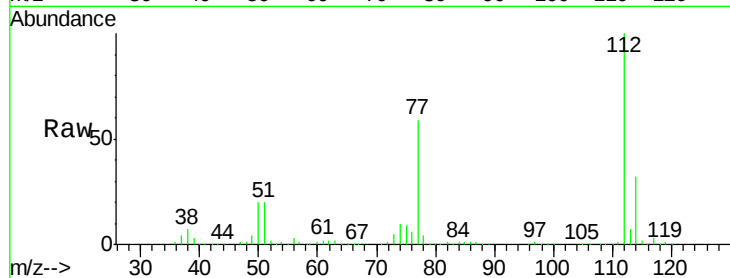
Tgt Ion:112 Resp: 1174869

Ion Ratio Lower Upper

112 100

114 32.0 22.5 41.7

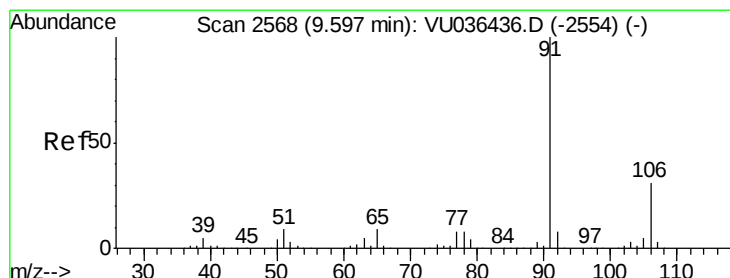
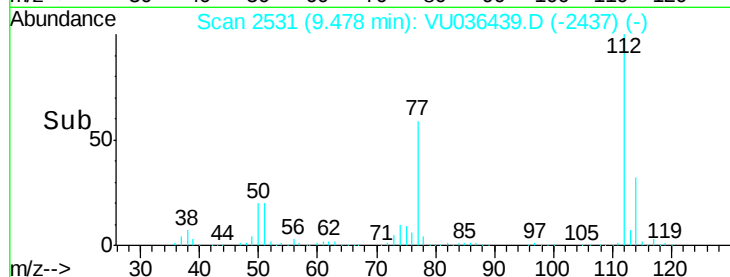
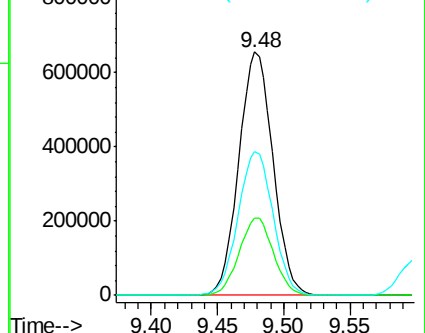
77 59.0 48.7 73.1



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): V



#52

Ethylbenzene

Concen: 95.55 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. 0.00 min

Lab File: VU036439.D

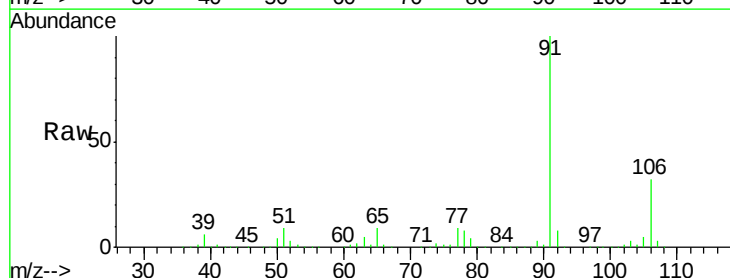
Acq: 13 Jan 2020 15:46

Tgt Ion: 91 Resp: 1820906

Ion Ratio Lower Upper

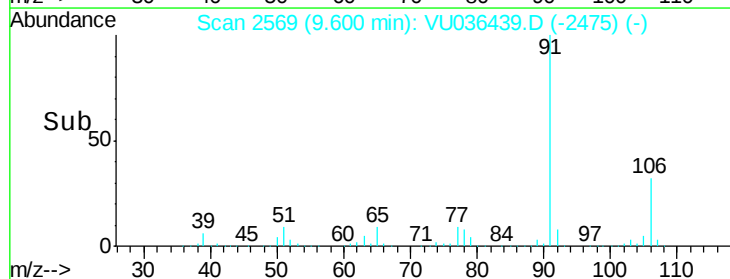
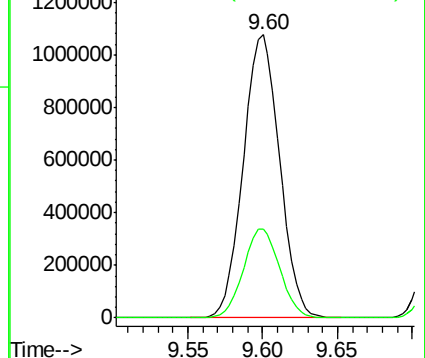
91 100

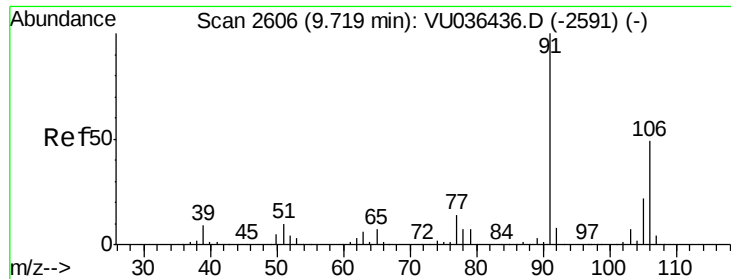
106 31.6 22.0 40.8



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V

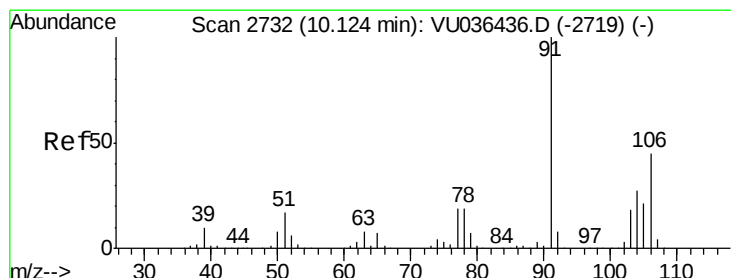
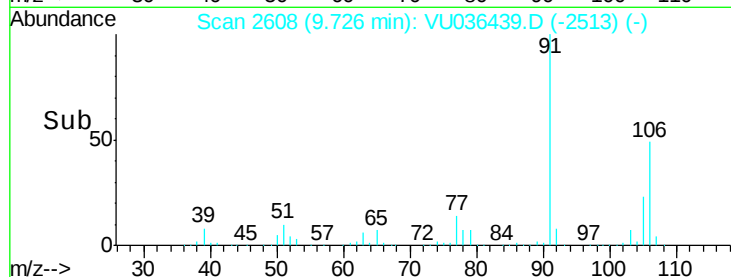
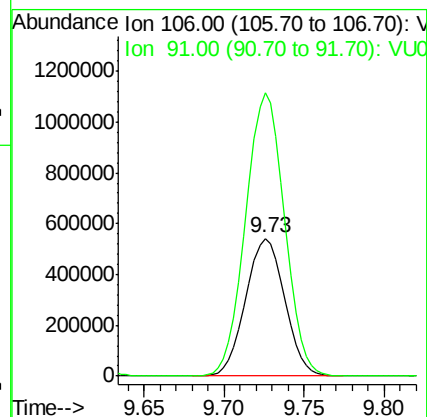
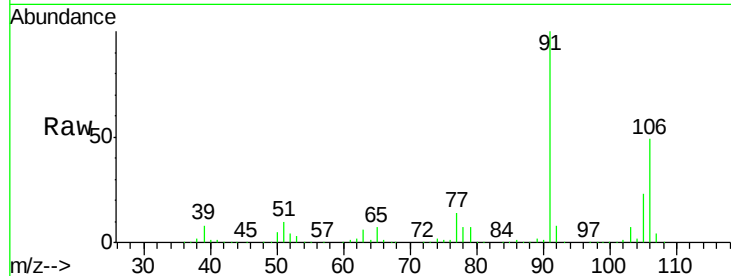




#53
m,p-Xylene
Concen: 127.44 ug/L
RT: 9.73 min Scan# 2608
Delta R.T. 0.01 min
Lab File: VU036439.D
Acq: 13 Jan 2020 15:46

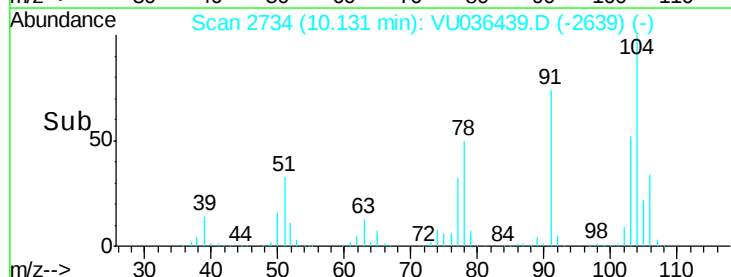
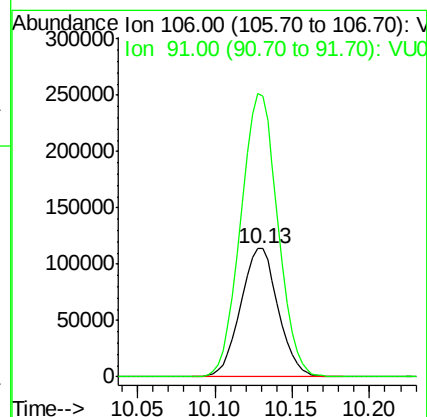
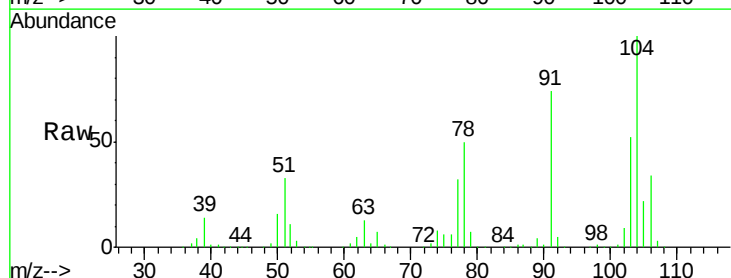
Instrument :
MSVOA_U
ClientSampled :
X2L44

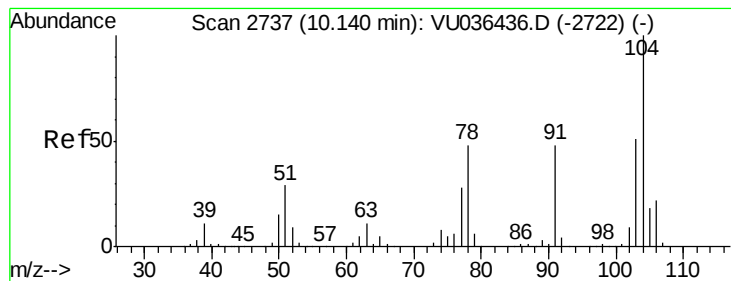
Tgt Ion:106 Resp: 900875
Ion Ratio Lower Upper
106 100
91 205.7 146.8 272.6



#54
o-xylene
Concen: 27.21 ug/L
RT: 10.13 min Scan# 2734
Delta R.T. 0.01 min
Lab File: VU036439.D
Acq: 13 Jan 2020 15:46

Tgt Ion:106 Resp: 193013
Ion Ratio Lower Upper
106 100
91 219.3 156.4 290.4





#55

Styrene

Concen: 102.69 ug/L

RT: 10.14 min Scan# 2738

Delta R.T. 0.00 min

Lab File: VU036439.D

Acq: 13 Jan 2020 15:46

Instrument :

MSVOA_U

ClientSampled :

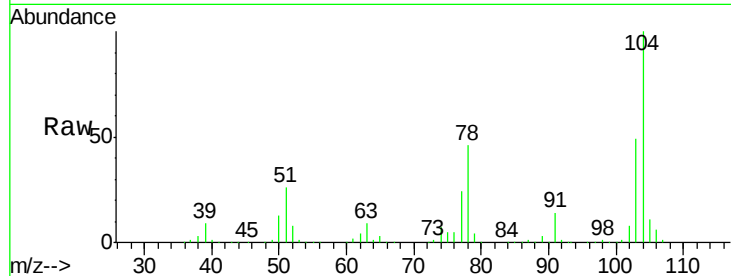
X2L44

Tgt Ion:104 Resp: 1231504

Ion Ratio Lower Upper

104 100

78 45.9 33.9 63.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0

10.14

800000

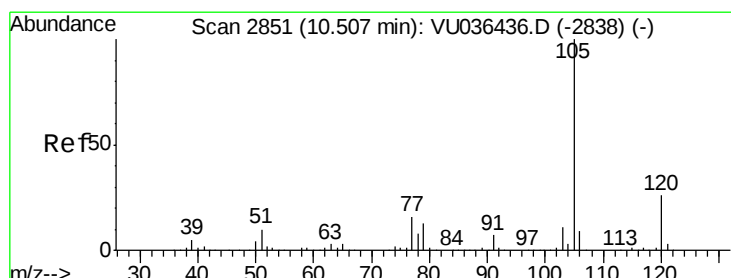
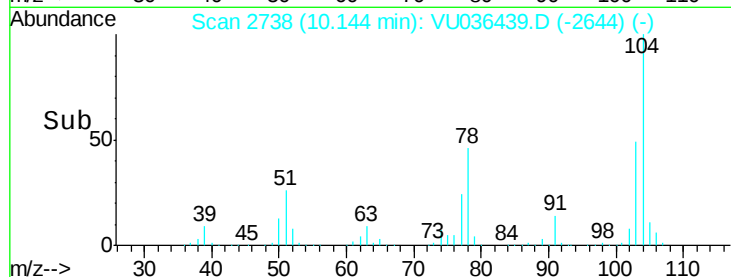
600000

400000

200000

0

Time-->



#56

Isopropylbenzene

Concen: 127.35 ug/L

RT: 10.51 min Scan# 2853

Delta R.T. 0.01 min

Lab File: VU036439.D

Acq: 13 Jan 2020 15:46

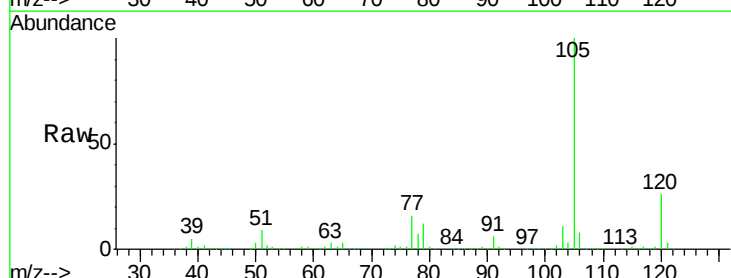
Tgt Ion:105 Resp: 2354257

Ion Ratio Lower Upper

105 100

120 26.0 21.0 31.4

77 16.3 13.3 19.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU0

10.51

2000000

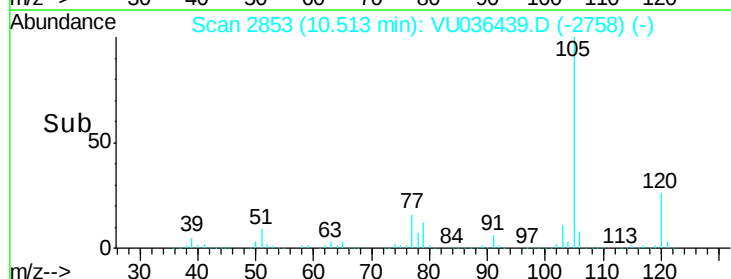
1500000

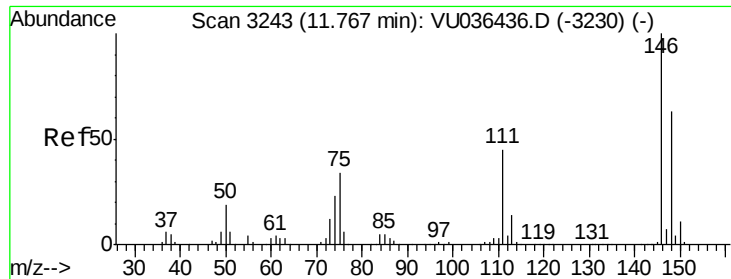
1000000

500000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 76.90 ug/L

RT: 11.77 min Scan# 3244

Delta R.T. 0.00 min

Lab File: VU036439.D

Acq: 13 Jan 2020 15:46

Instrument :

MSVOA_U

ClientSampleId :

X2L44

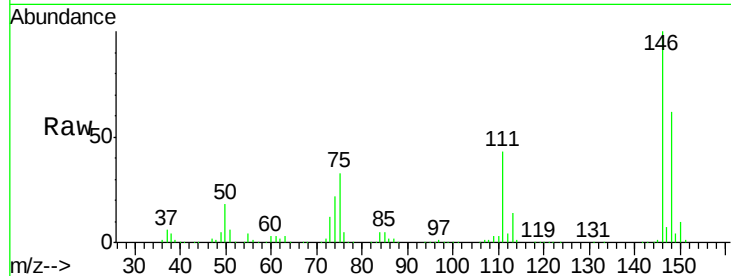
Tgt Ion:146 Resp: 625928

Ion Ratio Lower Upper

146 100

111 43.1 29.1 54.1

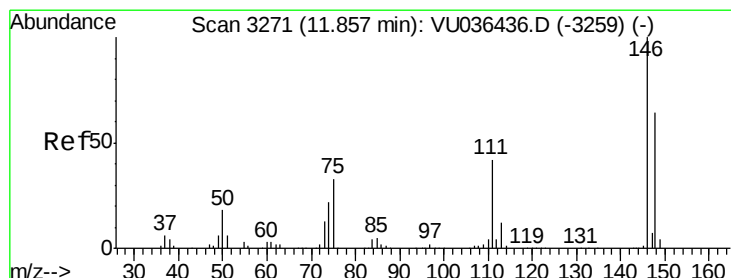
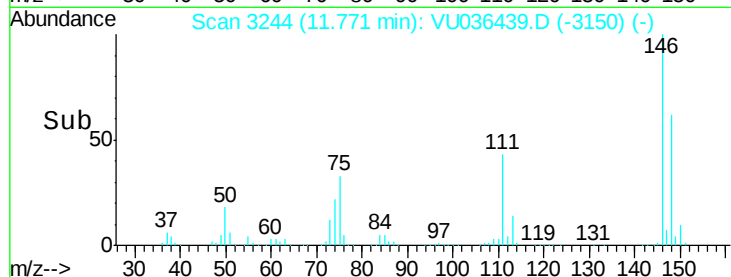
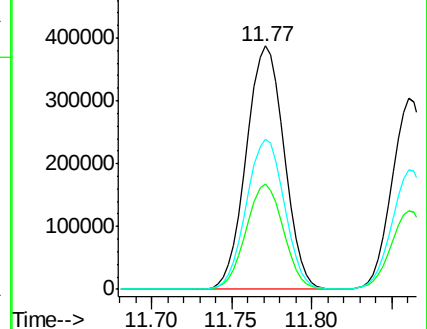
148 61.7 46.9 87.1



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 60.11 ug/L

RT: 11.86 min Scan# 3272

Delta R.T. 0.00 min

Lab File: VU036439.D

Acq: 13 Jan 2020 15:46

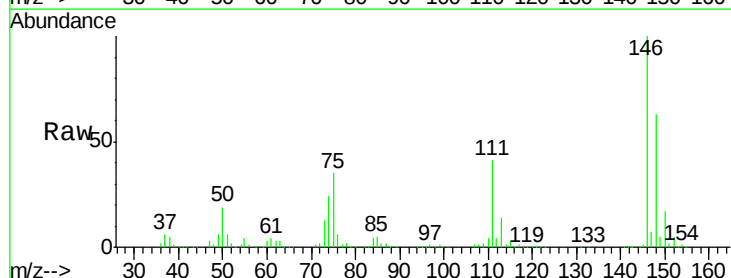
Tgt Ion:146 Resp: 485355

Ion Ratio Lower Upper

146 100

111 41.5 29.7 55.1

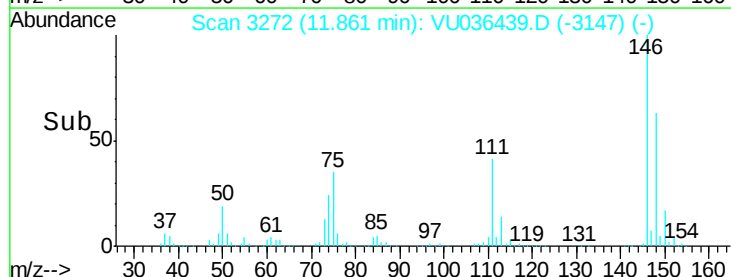
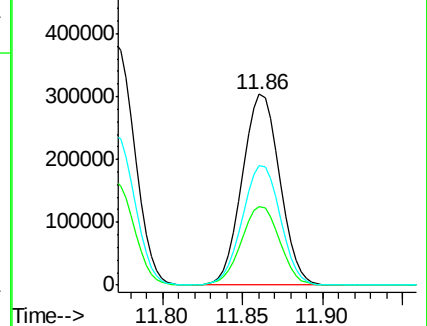
148 62.6 45.6 84.6

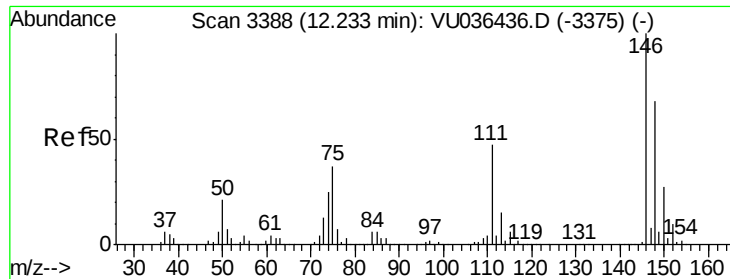


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 36.32 ug/L

RT: 12.24 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU036439.D

Acq: 13 Jan 2020 15:46

Instrument :

MSVOA_U

ClientSampled :

X2L44

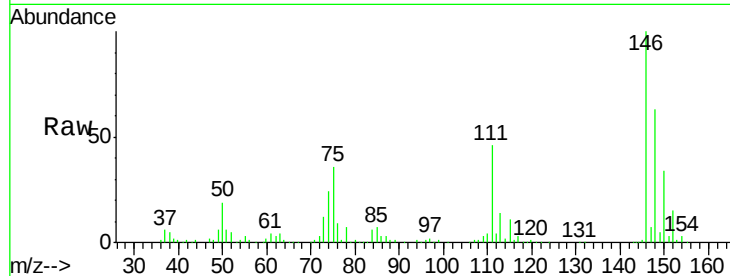
Tgt Ion:146 Resp: 296183

Ion Ratio Lower Upper

146 100

111 45.7 33.4 50.2

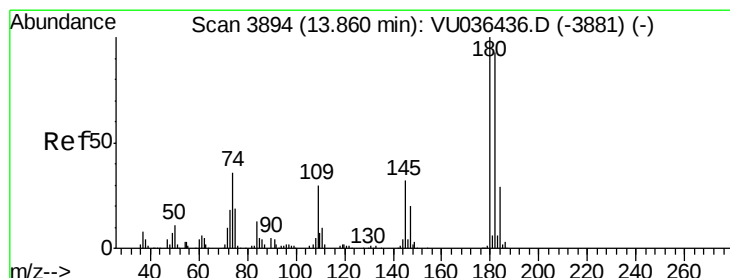
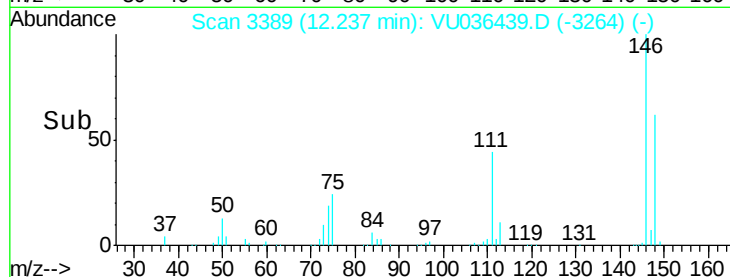
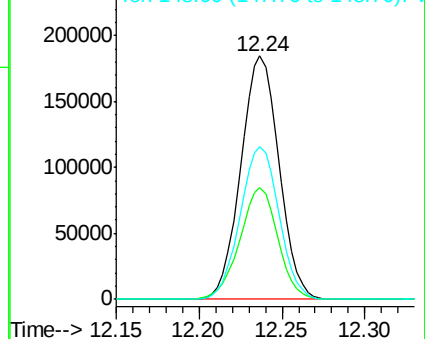
148 62.8 50.7 76.1



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#68

1,2,4-trichlorobenzene

Concen: 89.01 ug/L

RT: 13.86 min Scan# 3894

Delta R.T. 0.00 min

Lab File: VU036439.D

Acq: 13 Jan 2020 15:46

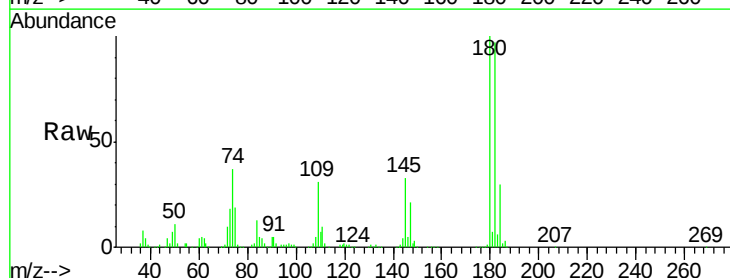
Tgt Ion:180 Resp: 364653

Ion Ratio Lower Upper

180 100

182 96.5 78.0 117.0

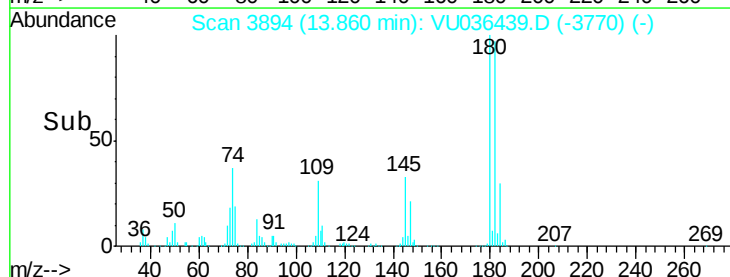
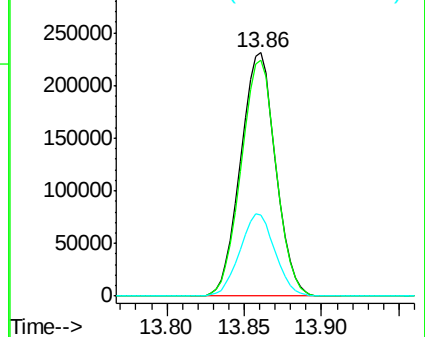
145 33.6 26.0 39.0

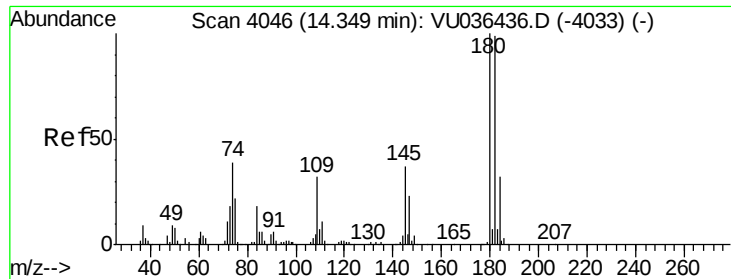


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#70
 1,2,3-Trichlorobenzene
 Concen: 61.31 ug/L
 RT: 14.35 min Scan# 4046
 Delta R.T. 0.00 min
 Lab File: VU036439.D
 Acq: 13 Jan 2020 15:46

Instrument :
 MSVOA_U
 ClientSampleId :
 X2L44

Tgt Ion:180 Resp: 263760
 Ion Ratio Lower Upper
 180 100
 182 96.3 75.4 113.2
 145 35.1 27.1 40.7

