

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U110419\
 Data File : VU035607.D
 Acq On : 04 Nov 2019 14:53
 Operator : JC/SP
 Sample : K5656-09
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 A5457

Quant Time: Nov 05 10:24:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR110419WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Nov 05 02:35:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	255897	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	271807	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	132391	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	117359	4.45	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	89.00%
7) Chloroethane-d5	1.93	69	98934	4.59	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	91.80%
11) 1,1-Dichloroethene-d2	2.59	63	168842	3.81	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	76.20%
20) 2-Butanone-d5	4.71	46	273022	46.95	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	93.90%
24) Chloroform-d	5.11	84	192749	4.59	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.80%
26) 1,2-Dichloroethane-d4	5.75	65	102378	4.64	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.80%
32) Benzene-d6	5.77	84	408528	4.78	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.60%
36) 1,2-Dichloropropane-d6	6.74	67	130500	4.72	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.40%
41) Toluene-d8	7.93	98	390020	4.82	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.40%
43) trans-1,3-Dichloropropene-	8.21	79	52260	4.73	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.60%
46) 2-Hexanone-d5	8.68	63	221712	51.21	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	102.42%
57) 1,1,2,2-Tetrachloroethane-	10.79	84	104580	4.51	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	90.20%
64) 1,2-Dichlorobenzene-d4	12.22	152	127720	4.87	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	97.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
6) Bromomethane	1.87	94	31742	1.711	ug/L	99
12) 1,1-Dichloroethene	2.61	96	38002	1.689	ug/L	# 64
14) Carbon disulfide	2.82	76	463480	6.352	ug/L	99
15) Methyl Acetate	3.00	43	386570	39.688	ug/L	97
16) Methylene chloride	3.08	84	128479	4.816	ug/L	97
17) Methyl tert-butyl Ether	3.43	73	560676	10.631	ug/L	100
21) 2-Butanone	4.78	43	240882	38.691	ug/L	100
22) cis-1,2-Dichloroethene	4.72	96	159232	6.223	ug/L	98
27) 1,2-Dichloroethane	5.84	62	135395	5.200	ug/L	99
30) Cyclohexane	5.43	56	411271	11.497	ug/L	99
33) Benzene	5.82	78	494851	5.173	ug/L	100
34) Trichloroethene	6.58	95	85967	3.512	ug/L	99
35) Methylcyclohexane	6.80	83	826226	22.155	ug/L	97
40) 4-Methyl-2-pentanone	7.84	43	376564	25.983	ug/L	99
42) Toluene	8.01	91	1687140	16.763	ug/L	99
47) Tetrachloroethene	8.58	164	98227	4.604	ug/L	98
48) 2-Hexanone	8.73	43	244023	23.692	ug/L	93

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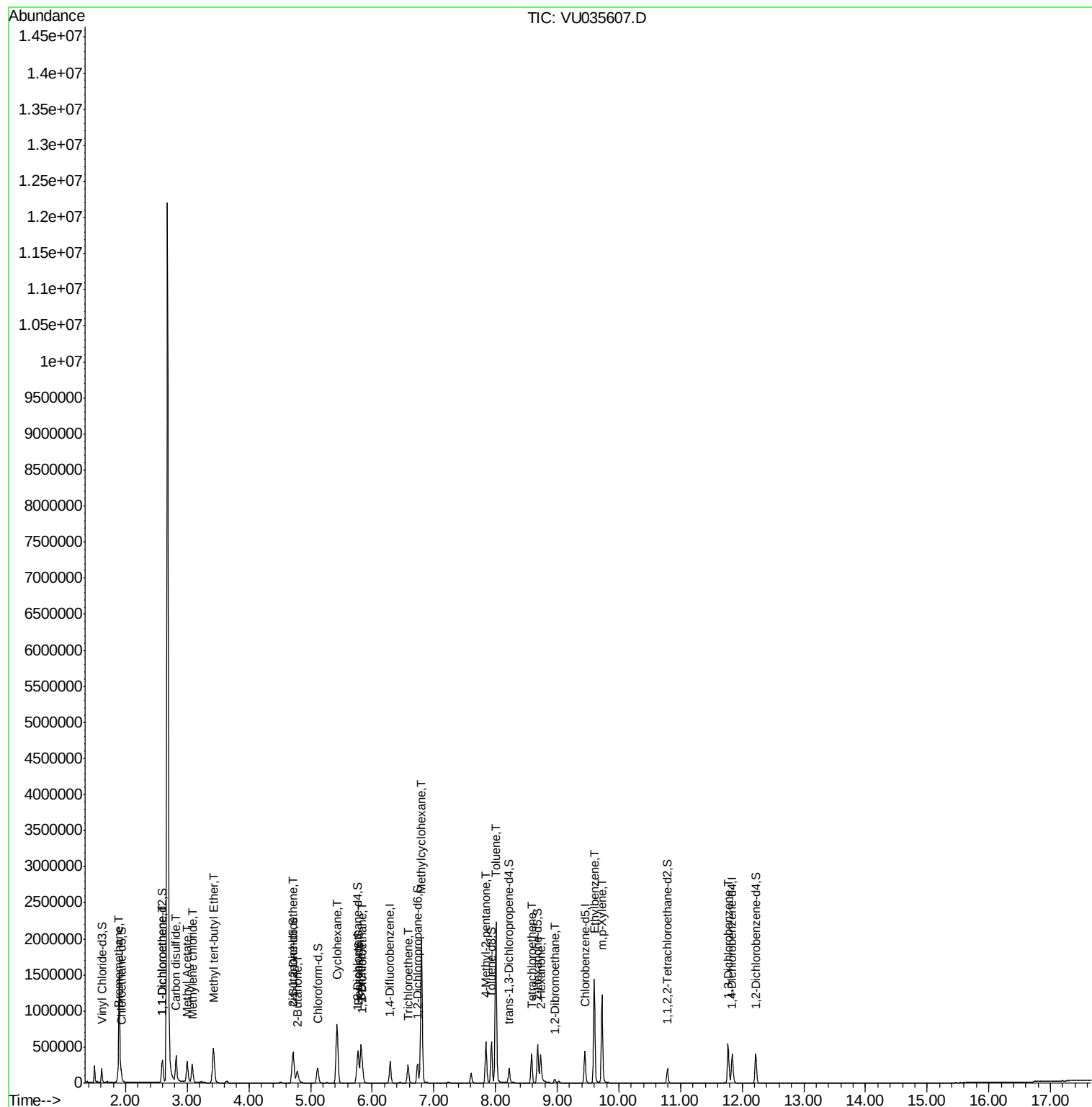
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 1,2-Dibromoethane	8.96	107	33758	1.971	ug/L	97
52) Ethylbenzene	9.60	91	1046829	9.884	ug/L	99
53) m,p-Xylene	9.73	106	359475	8.963	ug/L	99
62) 1,3-Dichlorobenzene	11.77	146	276019	6.201	ug/L	99

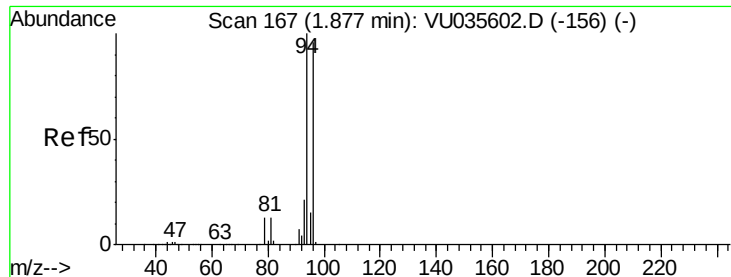
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#6

Bromomethane

Concen: 1.711 ug/L

RT: 1.87 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU035607.D

Acq: 04 Nov 2019 14:53

Instrument :

MSVOA_U

ClientSampleId :

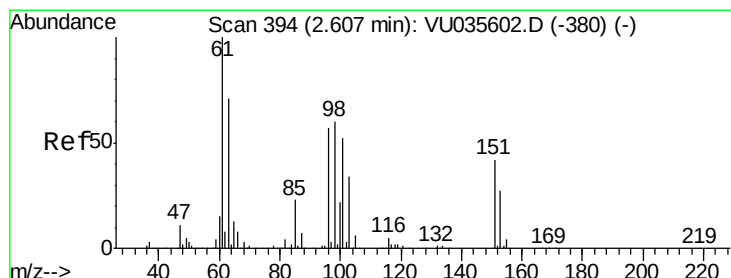
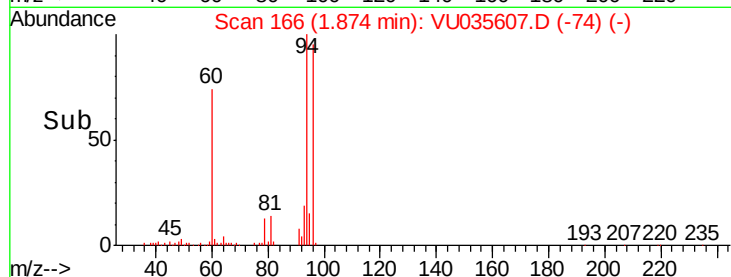
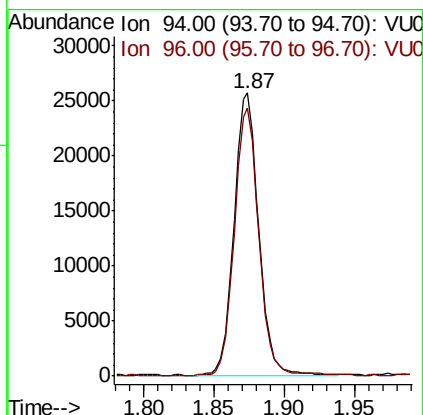
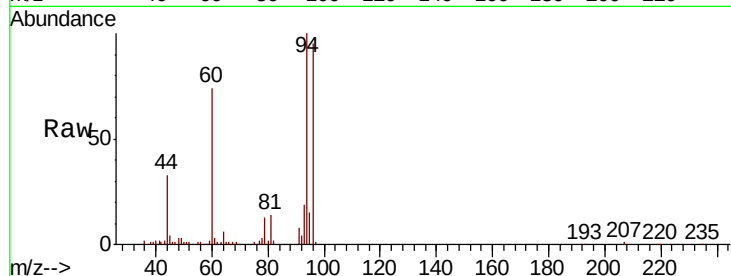
A5457

Tot Ion: 94 Resp: 31742

Ion Ratio Lower Upper

94 100

96 94.8 66.8 124.2



#12

1,1-Dichloroethene

Concen: 1.689 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU035607.D

Acq: 04 Nov 2019 14:53

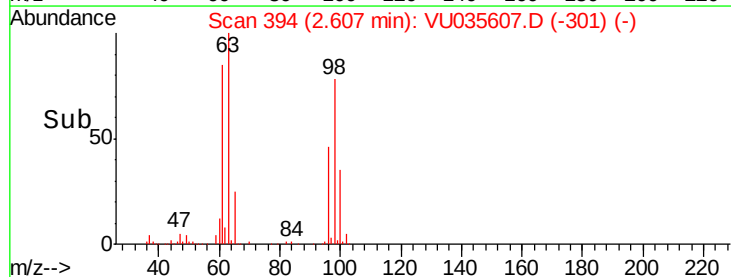
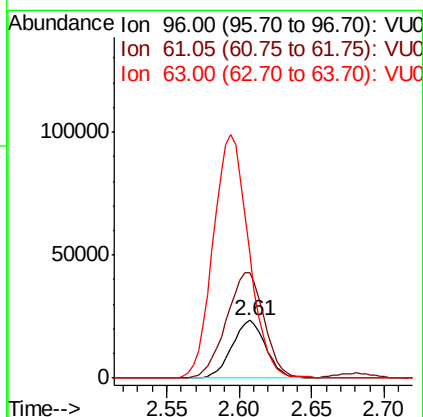
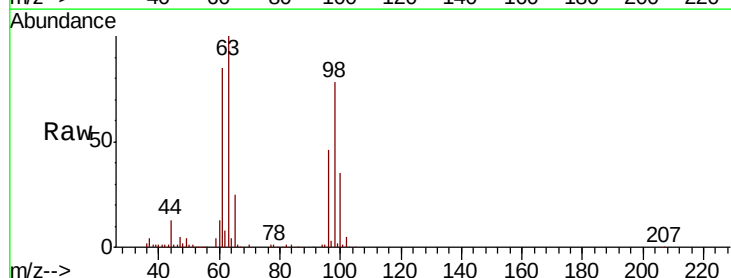
Tgt Ion: 96 Resp: 38002

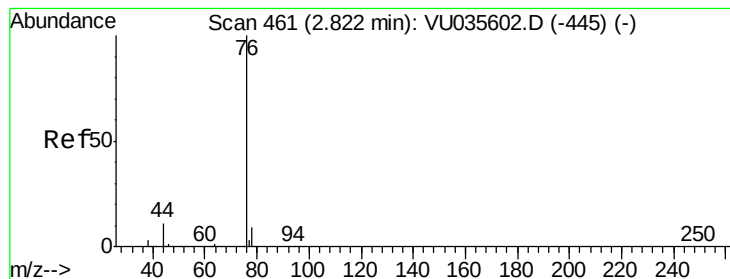
Ion Ratio Lower Upper

96 100

61 183.6 123.1 228.5

63 215.5 87.8 163.0#





#14

Carbon disulfide

Concen: 6.352 ug/L

RT: 2.82 min Scan# 460

Delta R.T. -0.00 min

Lab File: VU035607.D

Acq: 04 Nov 2019 14:53

Instrument :

MSVOA_U

ClientSampleId :

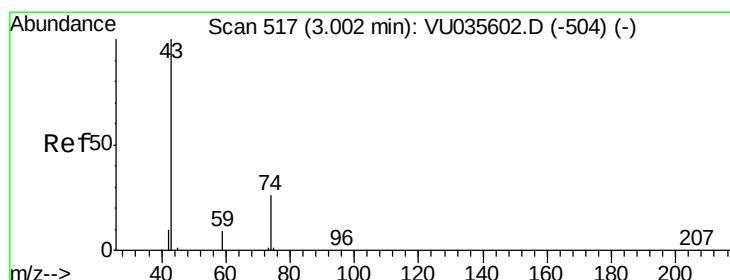
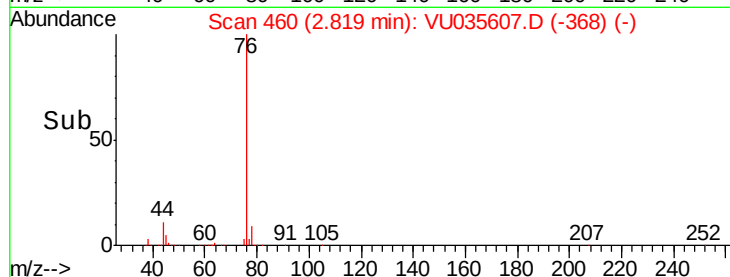
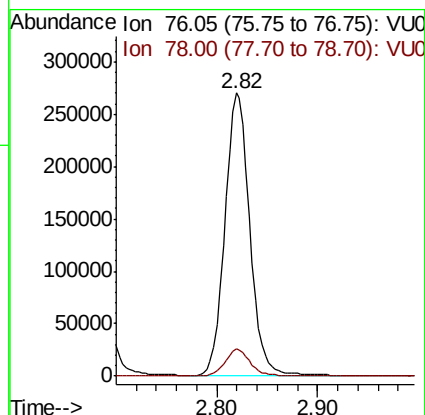
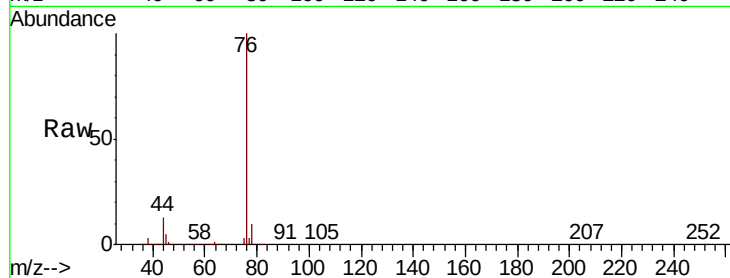
A5457

Tot Ion: 76 Resp: 463480

Ion Ratio Lower Upper

76 100

78 9.6 7.4 11.0



#15

Methyl Acetate

Concen: 39.688 ug/L

RT: 3.00 min Scan# 516

Delta R.T. -0.00 min

Lab File: VU035607.D

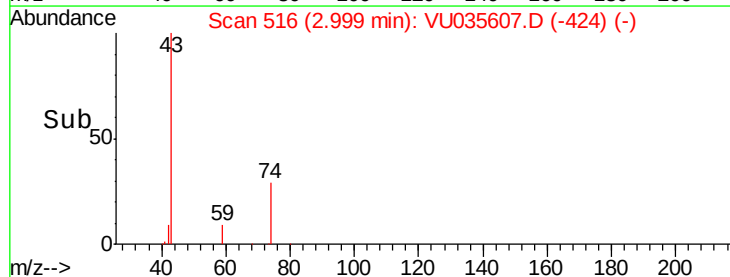
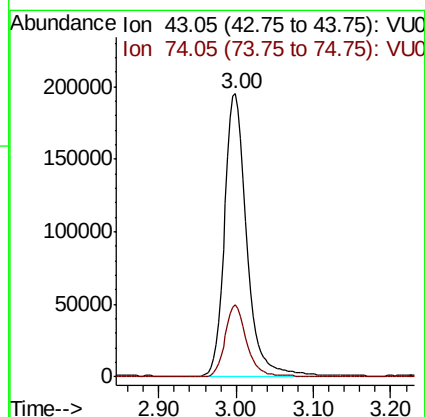
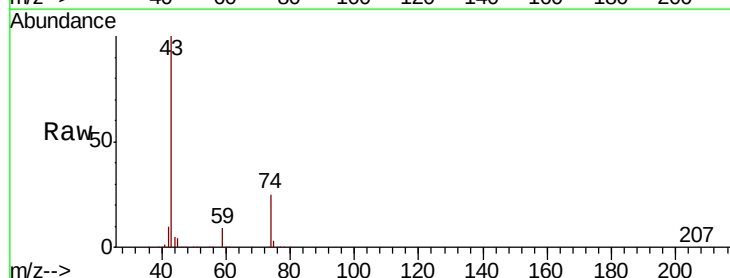
Acq: 04 Nov 2019 14:53

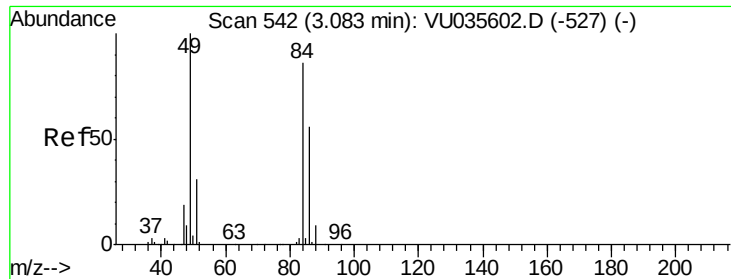
Tgt Ion: 43 Resp: 386570

Ion Ratio Lower Upper

43 100

74 25.0 21.0 31.6

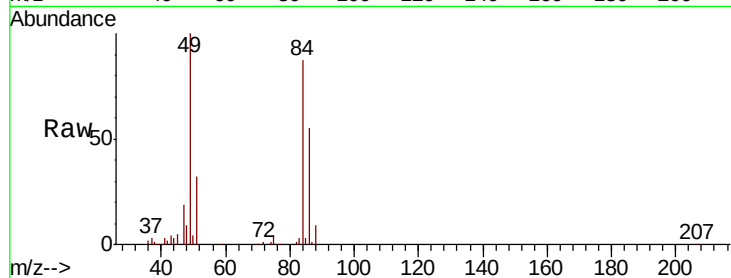




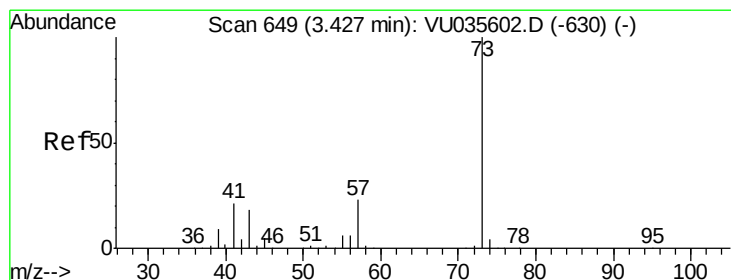
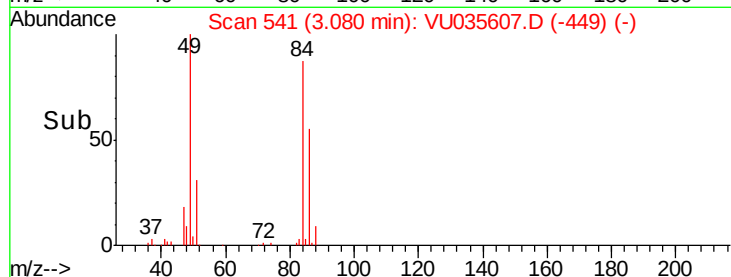
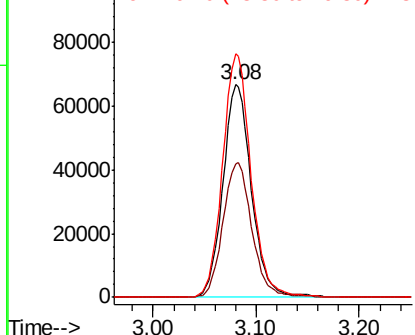
#16
Methylene chloride
Concen: 4.816 ug/L
RT: 3.08 min Scan# 541
Delta R.T. -0.00 min
Lab File: VU035607.D
Acq: 04 Nov 2019 14:53

Instrument :
MSVOA_U
ClientSampled :
A5457

Tot Ion: 84 Resp: 128479
Ion Ratio Lower Upper
84 100
86 62.8 45.8 85.2
49 114.4 81.9 152.1

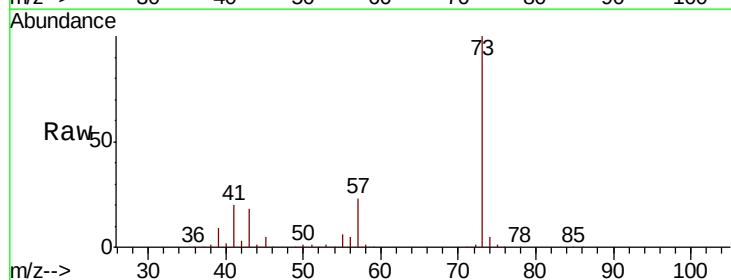


Abundance Ion 84.05 (83.75 to 84.75): VU0
Ion 86.00 (85.70 to 86.70): VU0
Ion 49.10 (48.80 to 49.80): VU0

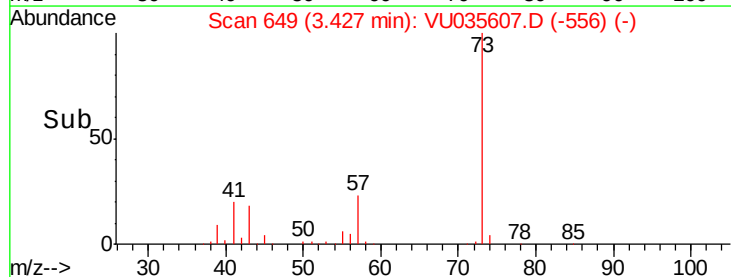
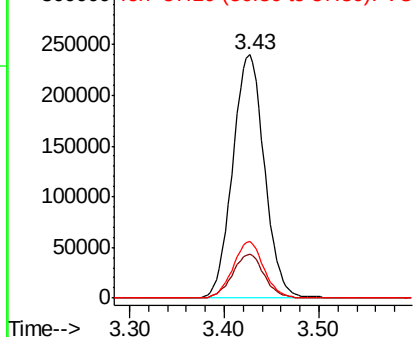


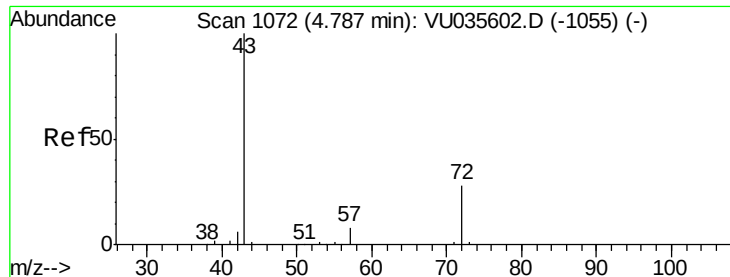
#17
Methyl tert-butyl Ether
Concen: 10.631 ug/L
RT: 3.43 min Scan# 649
Delta R.T. 0.00 min
Lab File: VU035607.D
Acq: 04 Nov 2019 14:53

Tgt Ion: 73 Resp: 560676
Ion Ratio Lower Upper
73 100
43 17.6 14.4 21.6
57 22.7 18.2 27.2



Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0





#21

2-Butanone

Concen: 38.691 ug/L

RT: 4.78 min Scan# 1071

Delta R.T. -0.00 min

Lab File: VU035607.D

Acq: 04 Nov 2019 14:53

Instrument :

MSVOA_U

ClientSampled :

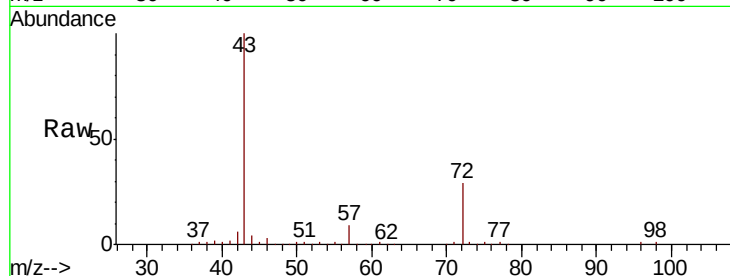
A5457

Tot Ion: 43 Resp: 240882

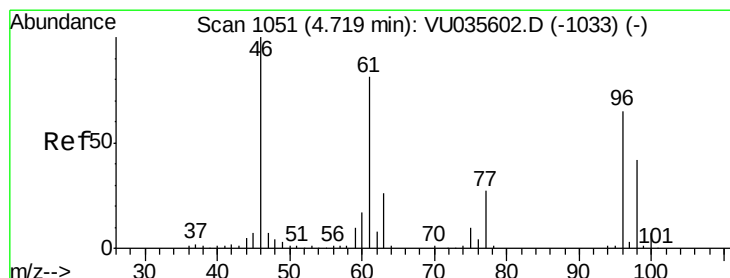
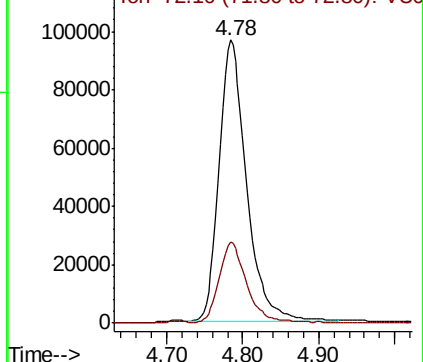
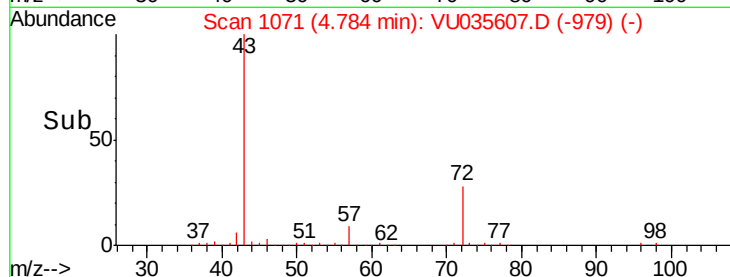
Ion Ratio Lower Upper

43 100

72 28.7 14.3 42.9



Abundance Ion 43.05 (42.75 to 43.75): VU035607.D (-979) (-)



#22

cis-1,2-Dichloroethene

Concen: 6.223 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VU035607.D

Acq: 04 Nov 2019 14:53

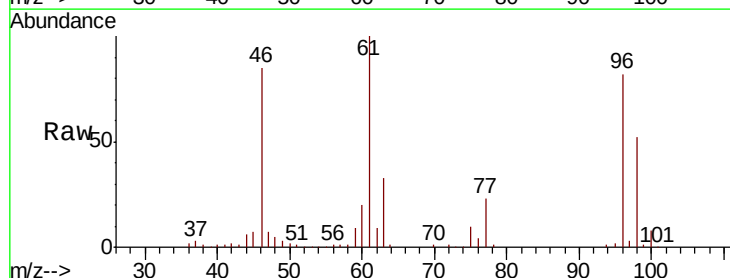
Tgt Ion: 96 Resp: 159232

Ion Ratio Lower Upper

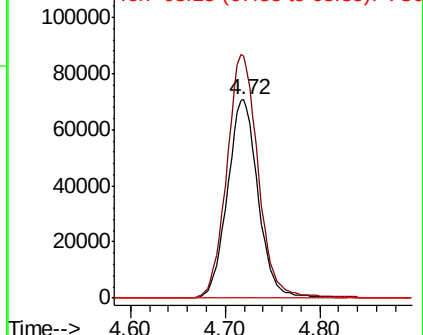
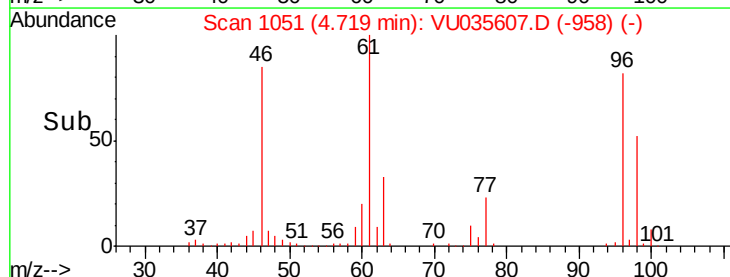
96 100

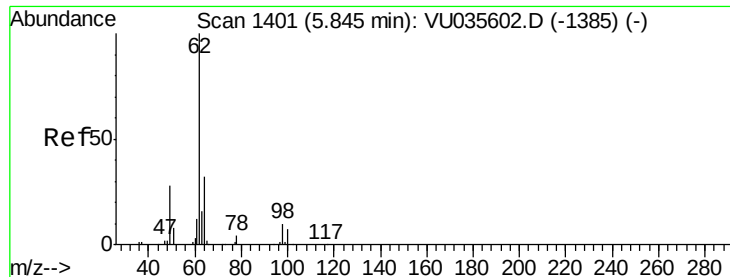
61 122.3 87.0 161.6

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU035607.D (-958) (-)





#27

1,2-Dichloroethane

Concen: 5.200 ug/L

RT: 5.84 min Scan# 1401

Delta R.T. 0.00 min

Lab File: VU035607.D

Acq: 04 Nov 2019 14:53

Instrument :

MSVOA_U

ClientSampleId :

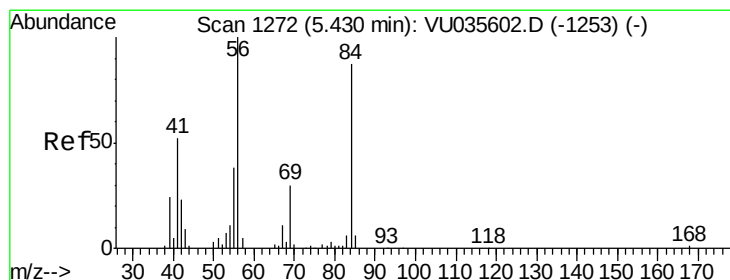
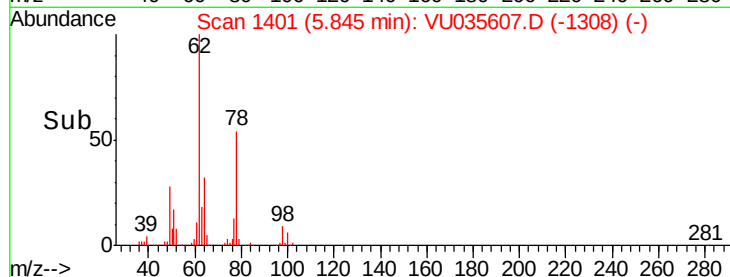
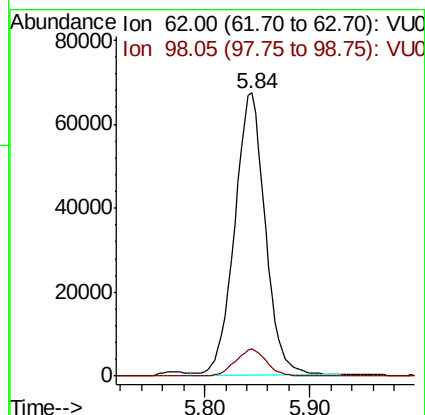
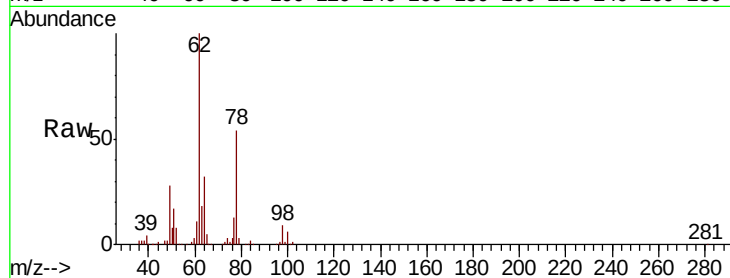
A5457

Tot Ion: 62 Resp: 135395

Ion Ratio Lower Upper

62 100

98 9.5 8.0 12.0



#30

Cyclohexane

Concen: 11.497 ug/L

RT: 5.43 min Scan# 1272

Delta R.T. 0.00 min

Lab File: VU035607.D

Acq: 04 Nov 2019 14:53

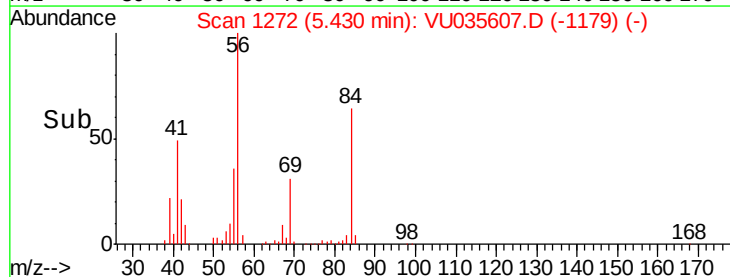
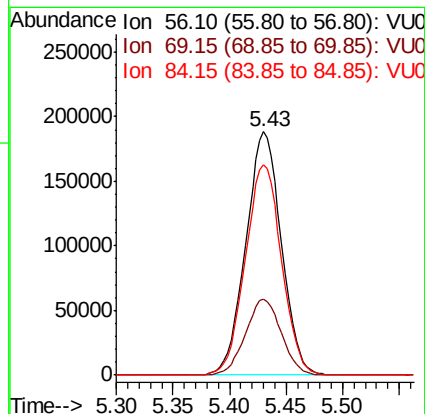
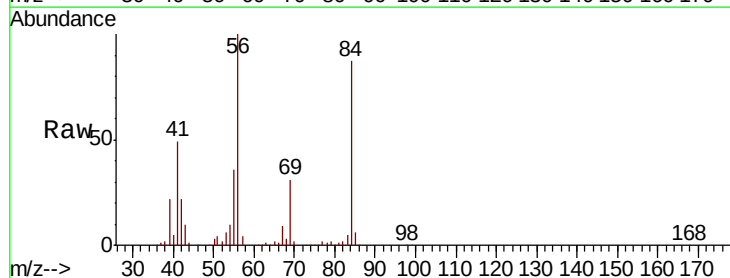
Tgt Ion: 56 Resp: 411271

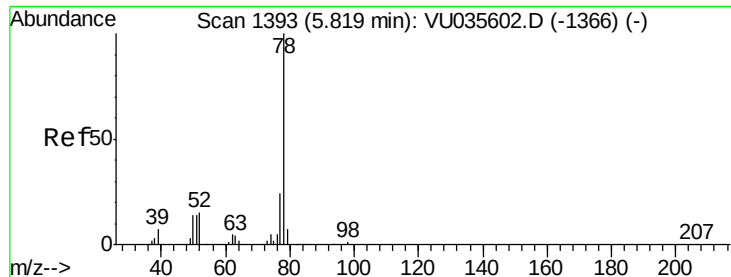
Ion Ratio Lower Upper

56 100

69 31.5 24.6 37.0

84 88.3 69.7 104.5





#33

Benzene

Concen: 5.173 ug/L

RT: 5.82 min Scan# 1393

Delta R.T. 0.00 min

Lab File: VU035607.D

Acq: 04 Nov 2019 14:53

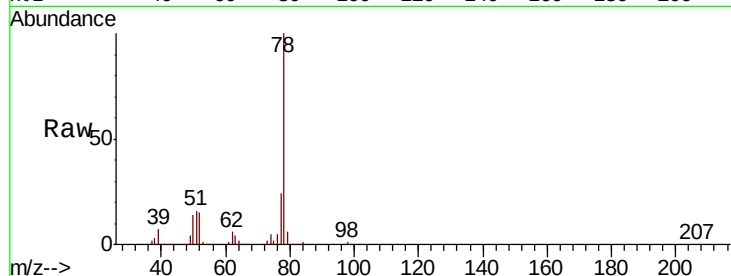
Instrument :

MSVOA_U

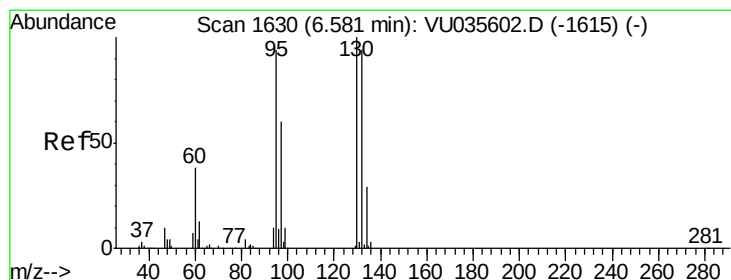
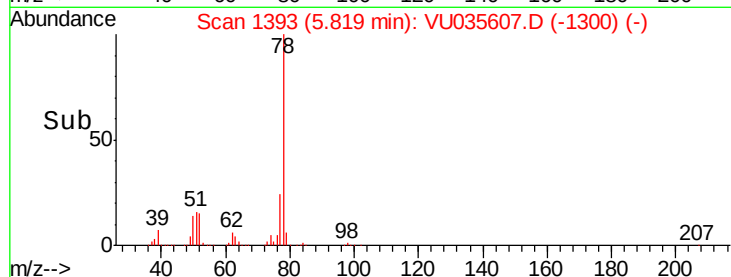
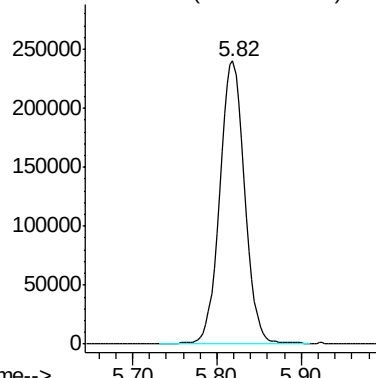
ClientSampleId :

A5457

Tgt Ion: 78 Resp: 494851



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 3.512 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU035607.D

Acq: 04 Nov 2019 14:53

Tgt Ion: 95 Resp: 85967

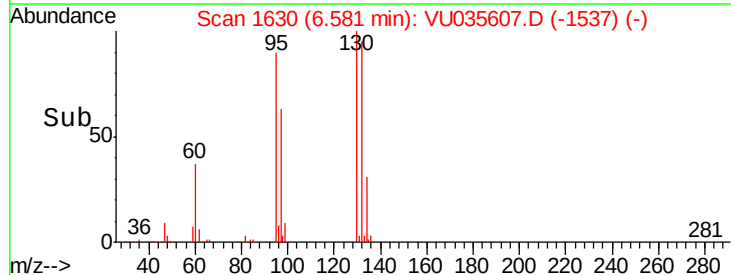
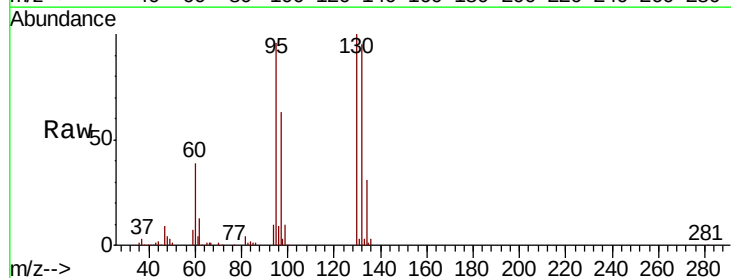
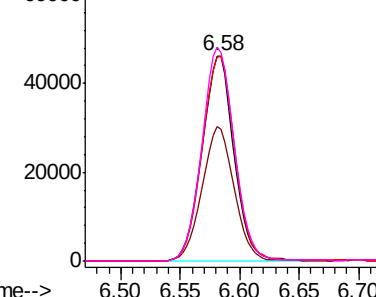
Ion	Ratio	Lower	Upper
95	100		
97	65.4	44.5	82.7
132	99.3	69.9	129.7
130	104.0	74.1	137.7

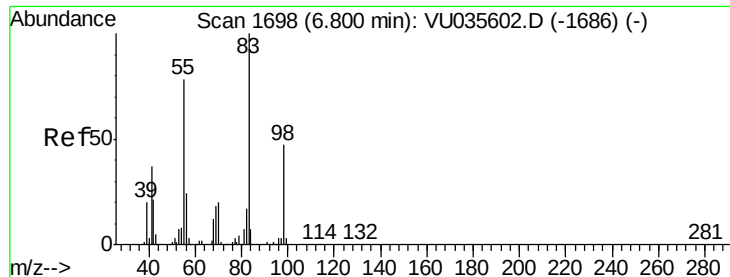
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V

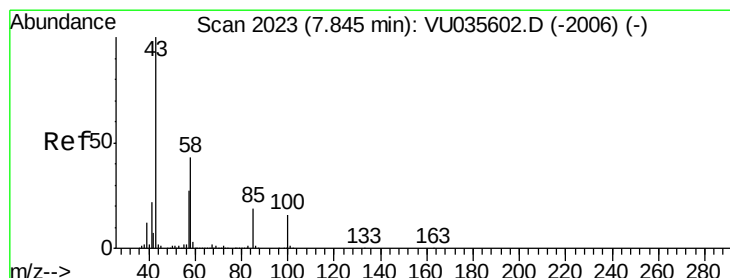
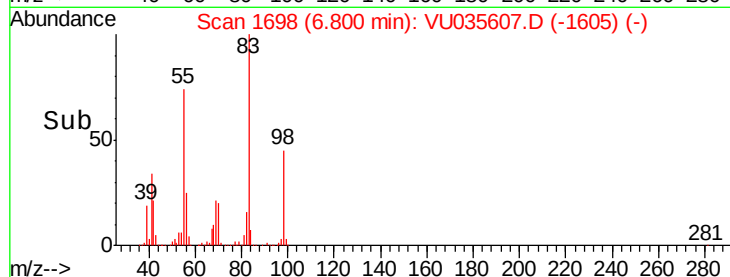
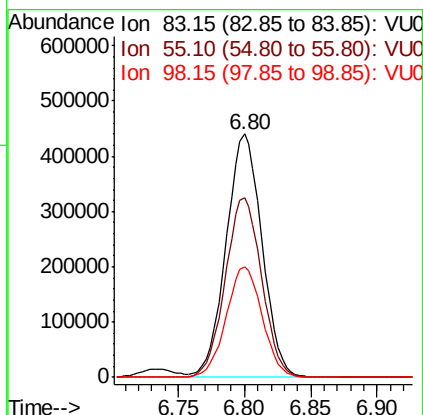
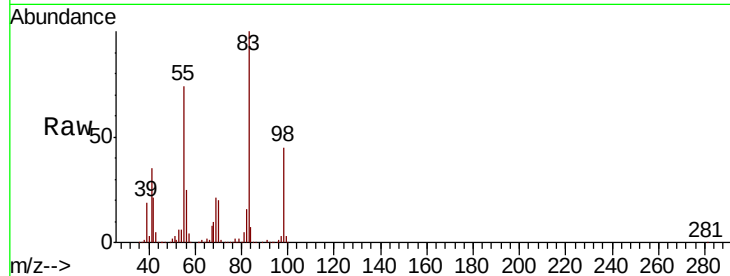




#35
Methylcyclohexane
Concen: 22.155 ug/L
RT: 6.80 min Scan# 1698
Delta R.T. 0.00 min
Lab File: VU035607.D
Acq: 04 Nov 2019 14:53

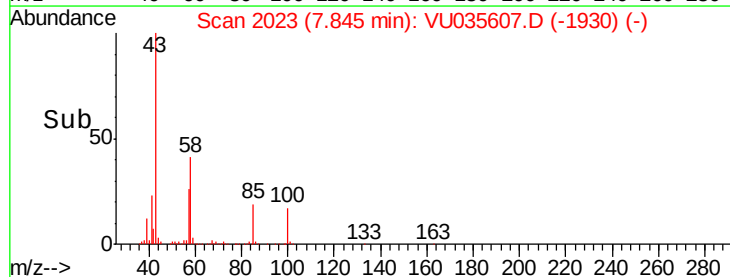
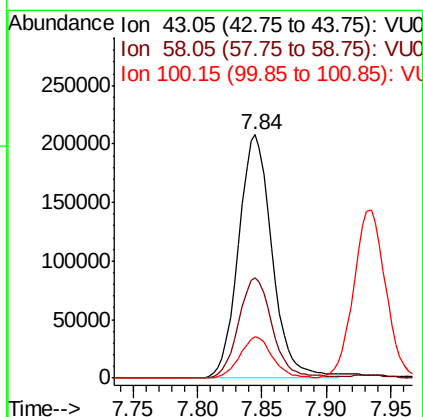
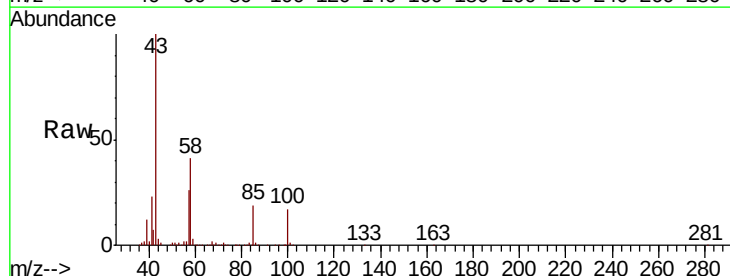
Instrument :
MSVOA_U
ClientSampleId :
A5457

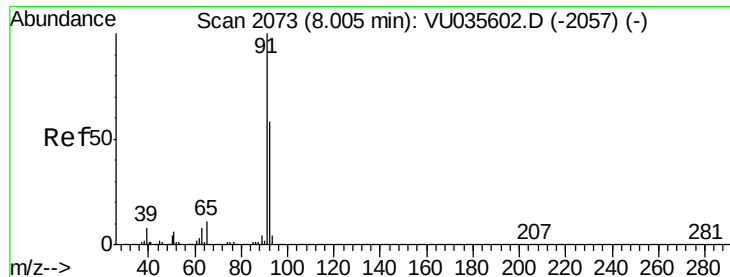
Tot Ion	Ratio	Lower	Upper
83	100		
55	75.2	62.6	93.8
98	45.6	37.2	55.8



#40
4-Methyl-2-pentanone
Concen: 25.983 ug/L
RT: 7.84 min Scan# 2023
Delta R.T. 0.00 min
Lab File: VU035607.D
Acq: 04 Nov 2019 14:53

Tgt Ion	Ratio	Lower	Upper
43	100		
58	41.6	33.4	50.2
100	16.4	12.7	19.1





#42

Toluene

Concen: 16.763 ug/L

RT: 8.01 min Scan# 2073

Delta R.T. 0.00 min

Lab File: VU035607.D

Acq: 04 Nov 2019 14:53

Instrument :

MSVOA_U

ClientSampled :

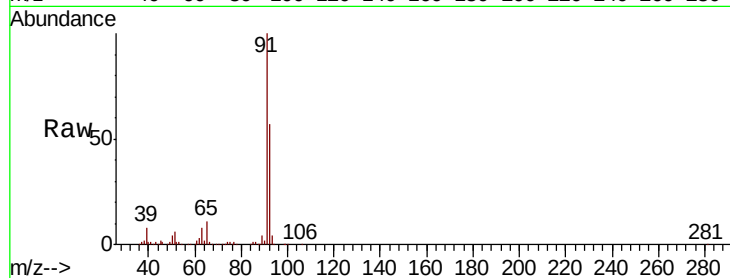
A5457

Tot Ion: 91 Resp: 1687140

Ion Ratio Lower Upper

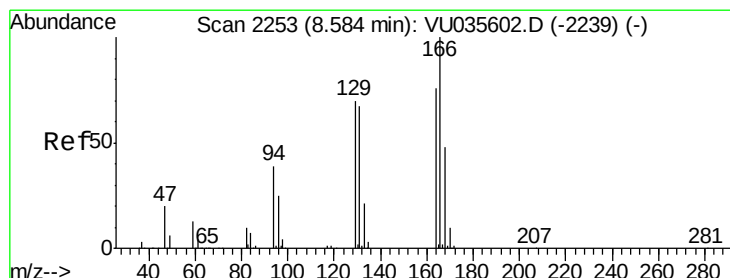
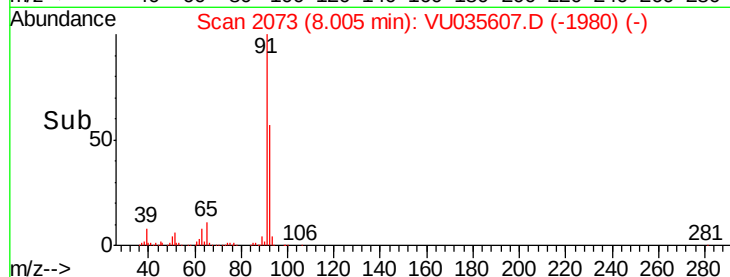
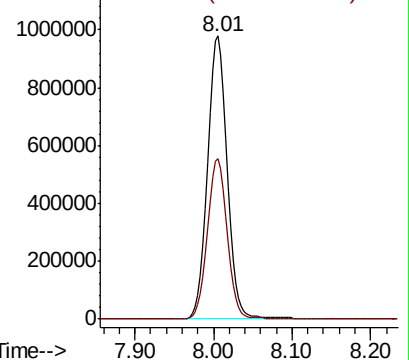
91 100

92 56.9 40.5 75.3



Abundance Ion 91.15 (90.85 to 91.85): VU035602.D (-2057) (-)

Ion 92.15 (91.85 to 92.85): VU035602.D (-2057) (-)



#47

Tetrachloroethene

Concen: 4.604 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. 0.00 min

Lab File: VU035607.D

Acq: 04 Nov 2019 14:53

Tgt Ion: 164 Resp: 98227

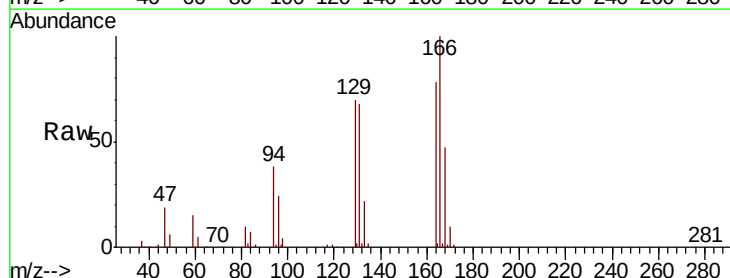
Ion Ratio Lower Upper

164 100

129 89.6 64.7 120.1

131 87.0 61.6 114.4

166 128.6 91.8 170.4

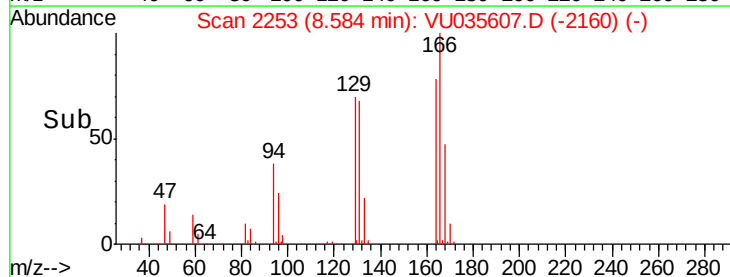
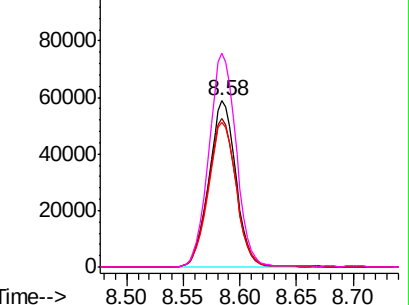


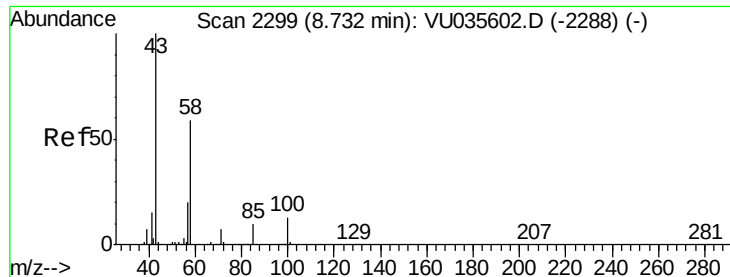
Abundance Ion 163.90 (163.60 to 164.60): VU035602.D (-2239) (-)

Ion 128.95 (128.65 to 129.65): VU035602.D (-2239) (-)

Ion 130.95 (130.65 to 131.65): VU035602.D (-2239) (-)

Ion 165.90 (165.60 to 166.60): VU035602.D (-2239) (-)

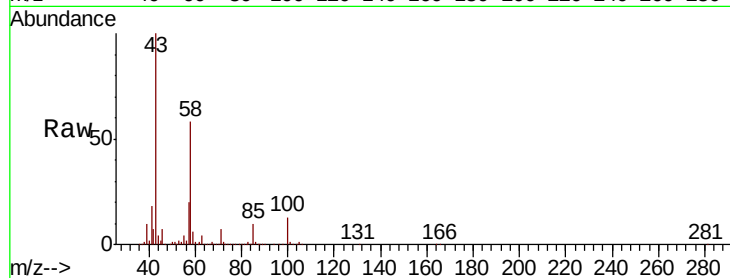




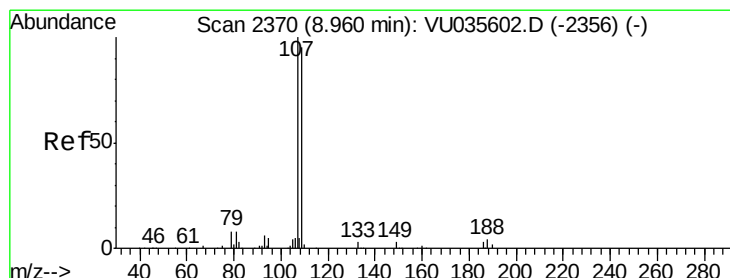
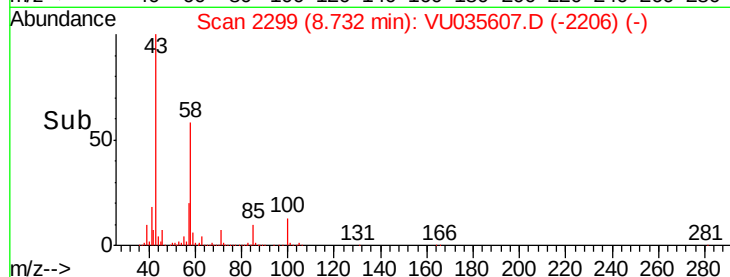
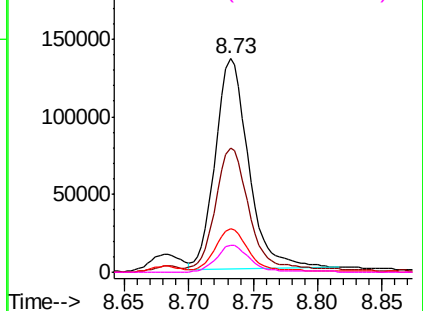
#48
 2-Hexanone
 Concen: 23.692 ug/L
 RT: 8.73 min Scan# 2299
 Delta R.T. 0.00 min
 Lab File: VU035607.D
 Acq: 04 Nov 2019 14:53

Instrument :
 MSVOA_U
 ClientSampleId :
 A5457

Tot Ion:	43	Resp:	244023
Ion	Ratio	Lower	Upper
43	100		
58	61.2	44.1	66.1
57	21.6	15.1	22.7
100	12.5	9.4	14.2

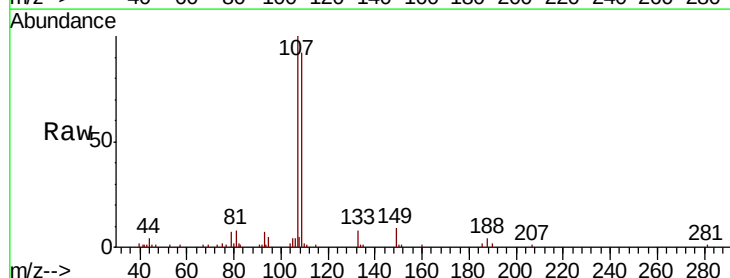


Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 58.05 (57.75 to 58.75): VU0
 Ion 57.20 (56.90 to 57.90): VU0
 Ion 100.15 (99.85 to 100.85): VU0

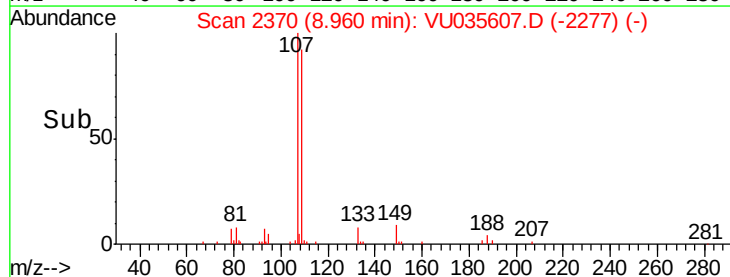
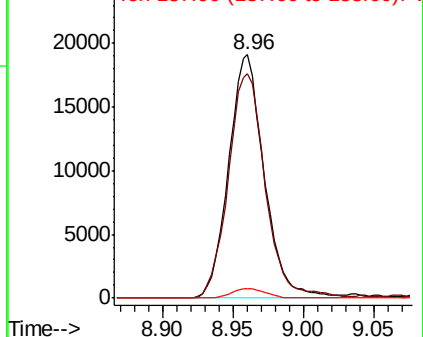


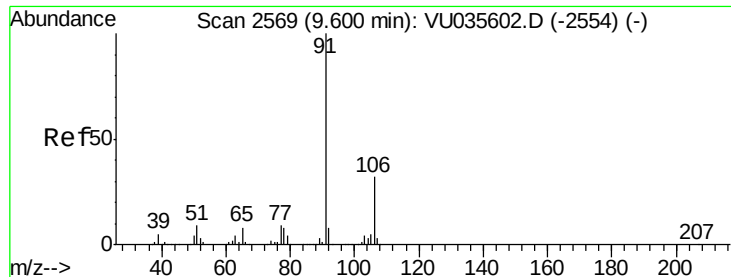
#50
 1,2-Dibromoethane
 Concen: 1.971 ug/L
 RT: 8.96 min Scan# 2370
 Delta R.T. 0.00 min
 Lab File: VU035607.D
 Acq: 04 Nov 2019 14:53

Tgt Ion:	107	Resp:	33758
Ion	Ratio	Lower	Upper
107	100		
109	92.1	66.5	123.5
188	4.0	3.1	4.7



Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V





#52

Ethylbenzene

Concen: 9.884 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. 0.00 min

Lab File: VU035607.D

Acq: 04 Nov 2019 14:53

Instrument :

MSVOA_U

ClientSampleId :

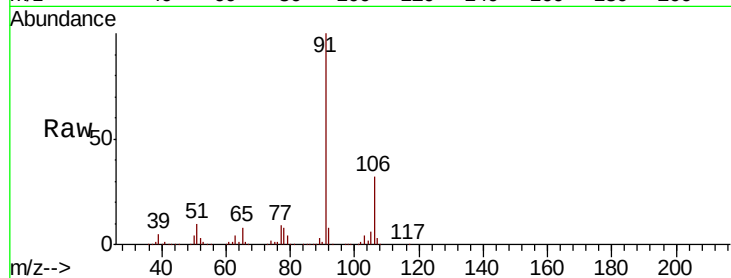
A5457

Tot Ion: 91 Resp: 1046829

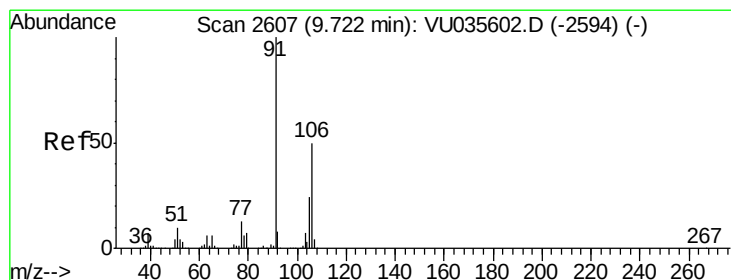
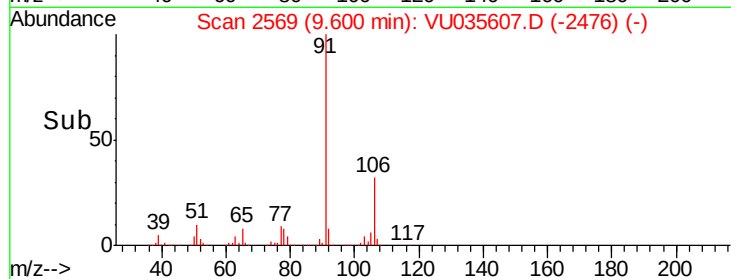
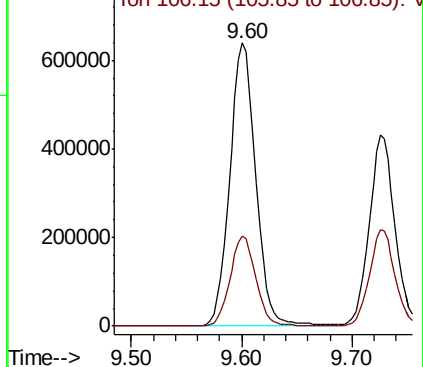
Ion Ratio Lower Upper

91 100

106 31.7 22.4 41.6



Abundance Ion 91.15 (90.85 to 91.85): VU035607.D (-2554) (-)



#53

m,p-Xylene

Concen: 8.963 ug/L

RT: 9.73 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VU035607.D

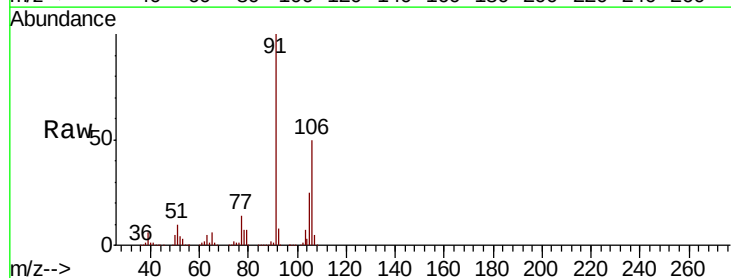
Acq: 04 Nov 2019 14:53

Tgt Ion: 106 Resp: 359475

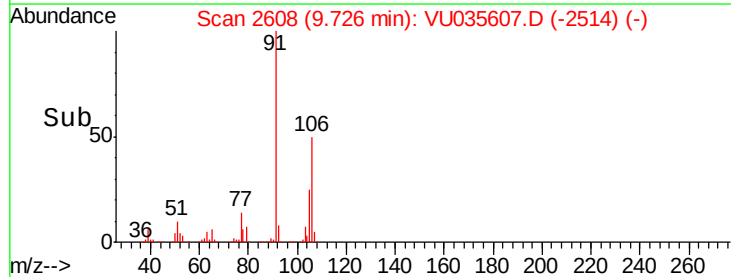
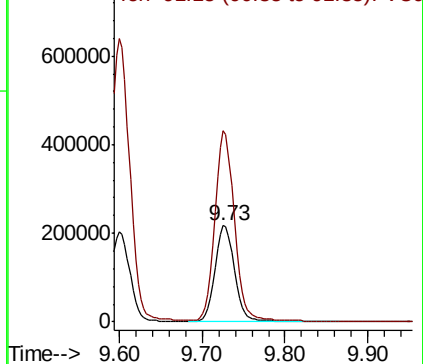
Ion Ratio Lower Upper

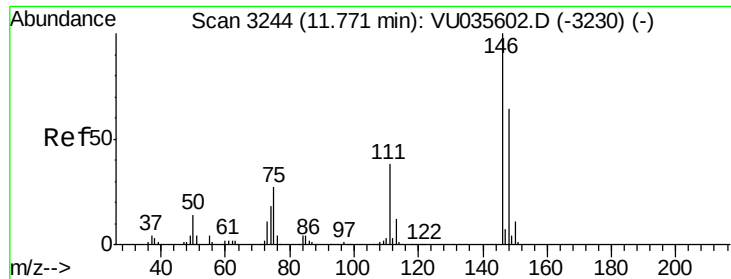
106 100

91 198.4 139.4 259.0



Abundance Ion 106.15 (105.85 to 106.85): VU035607.D (-2594) (-)





#62

1,3-Dichlorobenzene

Concen: 6.201 ug/L

RT: 11.77 min Scan# 3244

Delta R.T. 0.00 min

Lab File: VU035607.D

Acq: 04 Nov 2019 14:53

Instrument :

MSVOA_U

ClientSampleId :

A5457

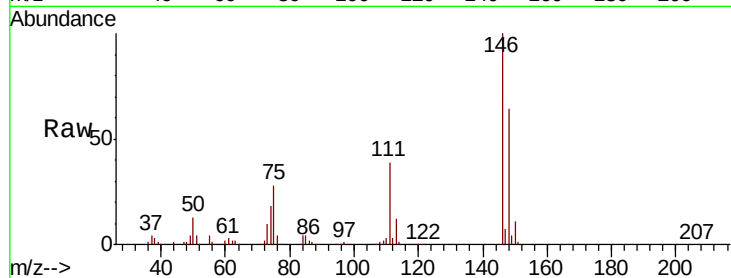
Tot Ion:146 Resp: 276019

Ion Ratio Lower Upper

146 100

111 38.8 26.7 49.5

148 64.5 44.5 82.7



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

