

Data File : VU034752.D
Acq On : 23 Sep 2019 22:53
Operator : JC/SP
Sample : K4932-08
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFDH0

Quant Time: Sep 24 03:42:24 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Sep 24 03:36:55 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	506068	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	471094	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	236895	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	209117	40.36	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	80.72%
7) Chloroethane-d5	1.67	69	170446	42.57	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	85.14%
11) 1,1-Dichloroethene-d2	2.26	63	293571	33.46	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	66.92%
21) 2-Butanone-d5	4.15	46	469501	118.24	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	118.24%
24) Chloroform-d	4.62	84	362325	48.11	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.22%
26) 1,2-Dichloroethane-d4	5.29	65	267145	48.25	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.50%
32) Benzene-d6	5.32	84	742963	50.88	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.76%
36) 1,2-Dichloropropane-d6	6.31	67	262208	51.38	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	102.76%
41) Toluene-d8	7.54	98	715447	51.50	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.00%
43) trans-1,3-Dichloropropene-	7.83	79	116848	47.80	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.60%
47) 2-Hexanone-d5	8.29	63	318466	124.24	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	124.24%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	362873	51.24	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	102.48%
64) 1,2-Dichlorobenzene-d4	11.84	152	258636	52.07	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	104.14%

Target Compounds

					Qvalue
13) Acetone	2.31	43	132093	28.599 ug/L	97
14) Carbon disulfide	2.46	76	9337	0.836 ug/L	98
16) Methylene chloride	2.68	84	216907	51.717 ug/L	96
20) cis-1,2-Dichloroethene	4.20	96	18661	4.409 ug/L	92
22) 2-Butanone	4.25	43	30064	5.471 ug/L	82
29) Cyclohexane	4.97	56	33594	4.320 ug/L	94
33) Benzene	5.37	78	522592	31.985 ug/L	100
34) Trichloroethene	6.16	95	115796	28.697 ug/L	98
35) Methylcyclohexane	6.40	83	29798	4.352 ug/L	97
37) 1,2-Dichloropropane	6.41	63	10231	2.103 ug/L	# 94
40) 4-Methyl-2-pentanone	7.44	43	724453	77.997 ug/L	96
42) Toluene	7.61	91	4897896	277.381 ug/L	98
46) Tetrachloroethene	8.21	164	25569	9.008 ug/L	98
51) Chlorobenzene	9.10	112	10158	0.946 ug/L	97
52) Ethylbenzene	9.23	91	1179294	59.309 ug/L	98
53) m,p-Xylene	9.35	106	1673561	237.627 ug/L	100
54) o-xylene	9.76	106	1007629	144.651 ug/L	98

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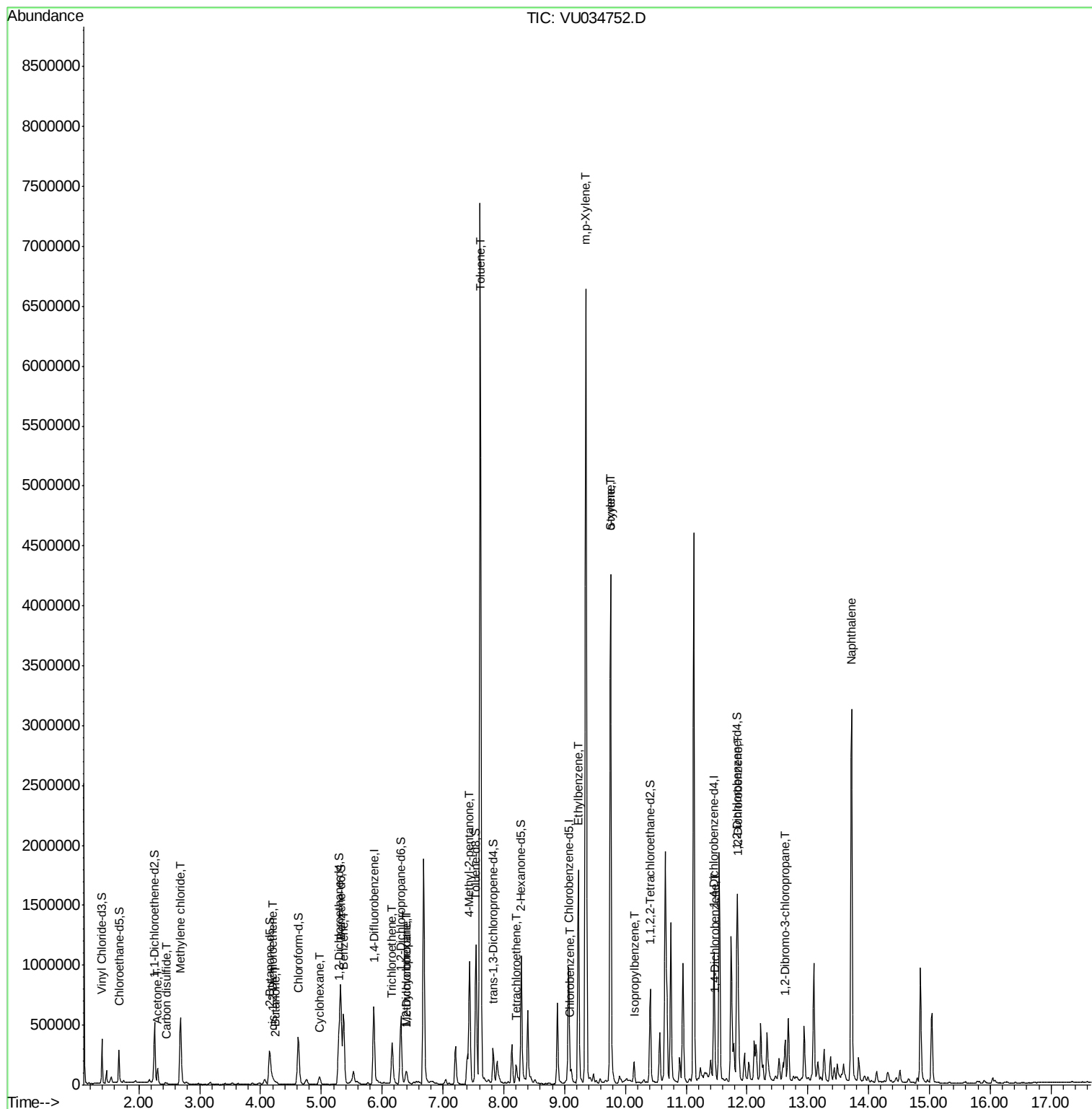
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) Styrene	9.76	104	58430	4.955	ug/L #	1
56) Isopropylbenzene	10.14	105	102792	5.473	ug/L	98
63) 1,4-Dichlorobenzene	11.49	146	16246	1.944	ug/L	90
65) 1,2-Dichlorobenzene	11.85	146	136362	16.451	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.63	75	2184	1.240	ug/L #	10
69) Naphthalene	13.72	128	2256221	150.777	ug/L	100

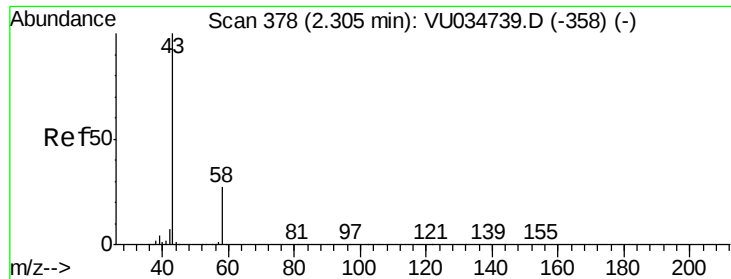
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 28.599 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VU034752.D

Acq: 23 Sep 2019 22:53

Instrument :

MSVOA_U

ClientSampleId :

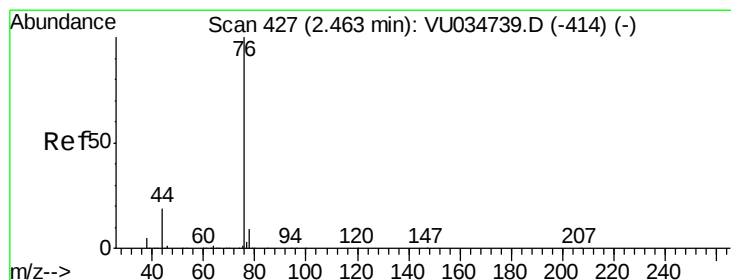
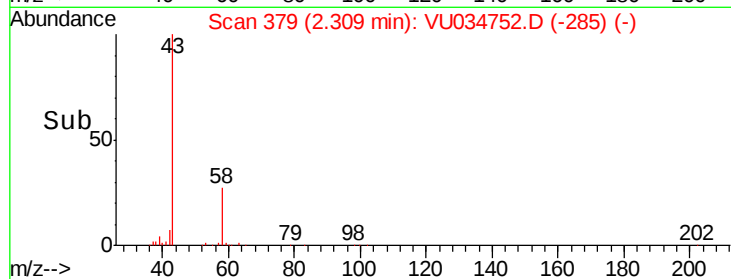
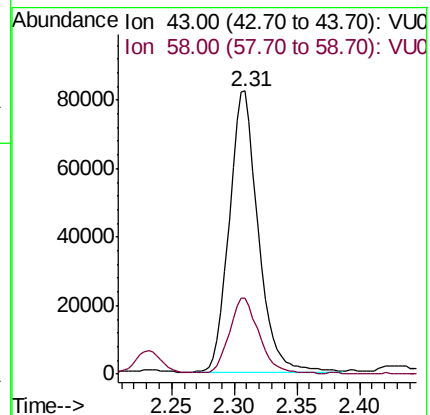
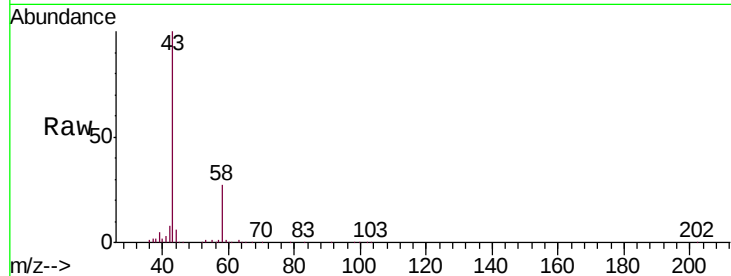
BFDH0

Tgt Ion: 43 Resp: 132093

Ion Ratio Lower Upper

43 100

58 28.4 0.0 53.4



#14

Carbon disulfide

Concen: 0.836 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU034752.D

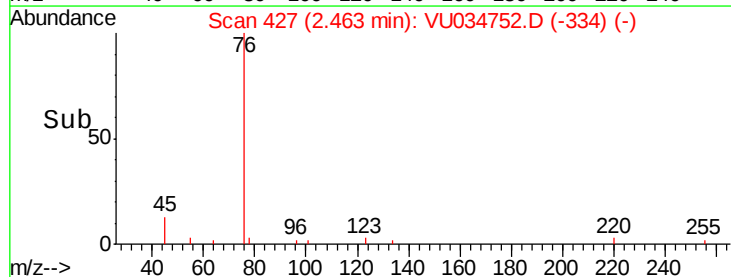
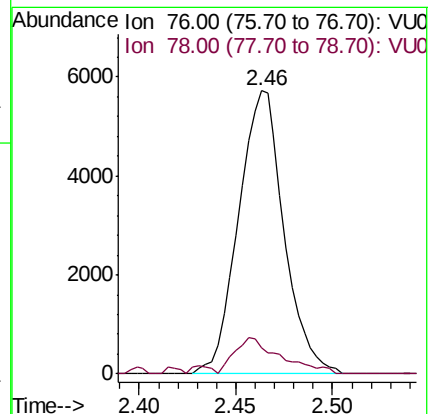
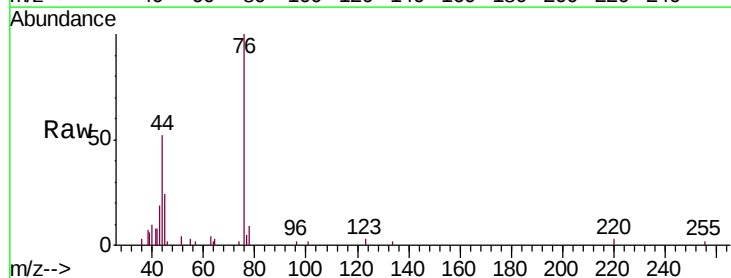
Acq: 23 Sep 2019 22:53

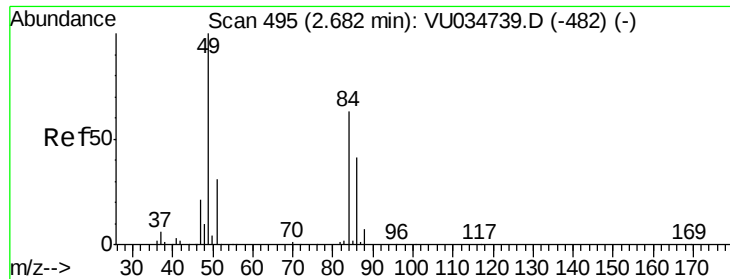
Tgt Ion: 76 Resp: 9337

Ion Ratio Lower Upper

76 100

78 9.3 6.9 10.3

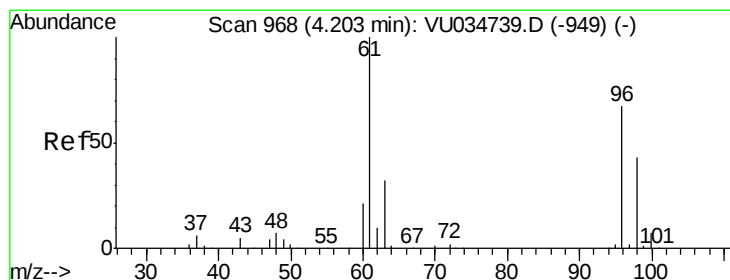
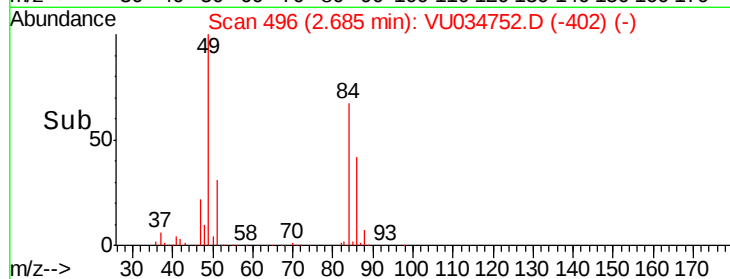
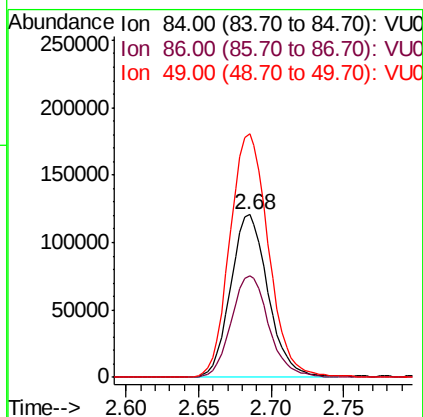
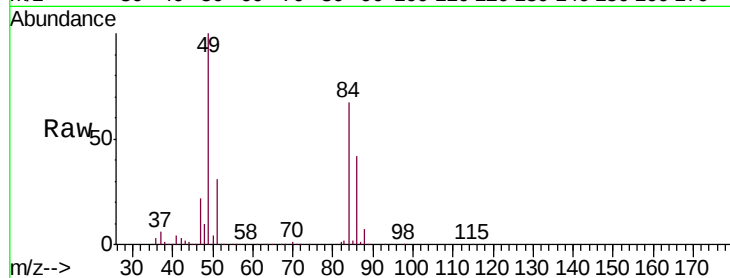




#16
Methylene chloride
Concen: 51.717 ug/L
RT: 2.68 min Scan# 496
Delta R.T. 0.00 min
Lab File: VU034752.D
Acq: 23 Sep 2019 22:53

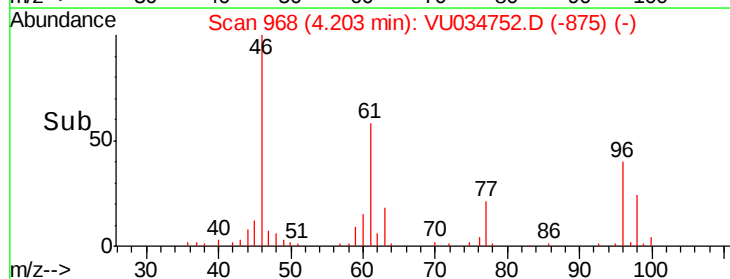
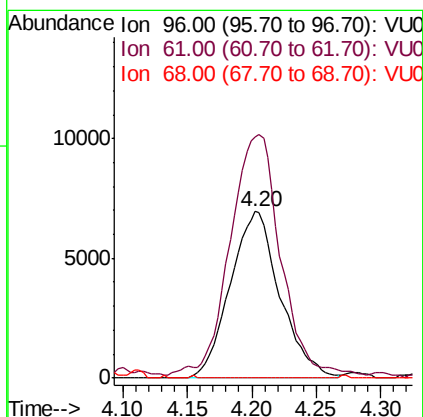
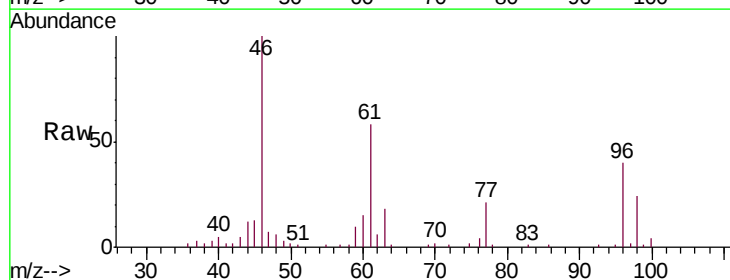
Instrument :
MSVOA_U
ClientSampleId :
BFDH0

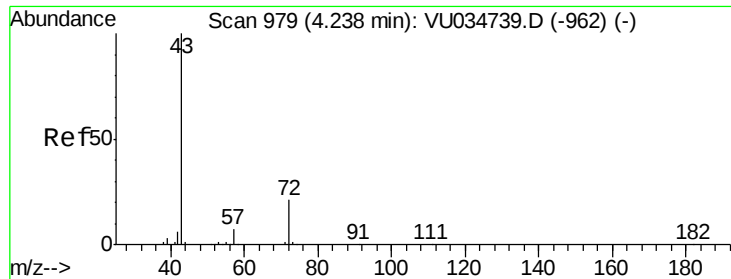
Tgt Ion: 84 Resp: 216907
Ion Ratio Lower Upper
84 100
86 62.7 43.0 80.0
49 150.0 109.7 203.7



#20
cis-1,2-Dichloroethene
Concen: 4.409 ug/L
RT: 4.20 min Scan# 968
Delta R.T. -0.00 min
Lab File: VU034752.D
Acq: 23 Sep 2019 22:53

Tgt Ion: 96 Resp: 18661
Ion Ratio Lower Upper
96 100
61 145.0 108.8 202.2
68 0.0 0.0 0.0

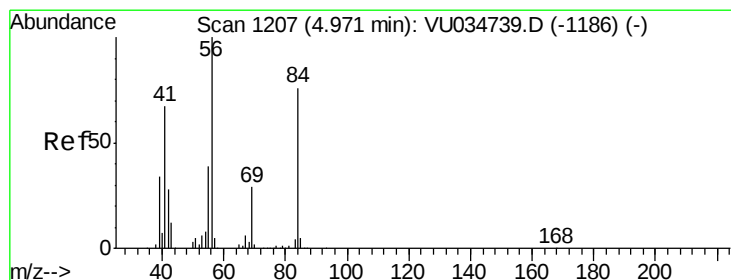
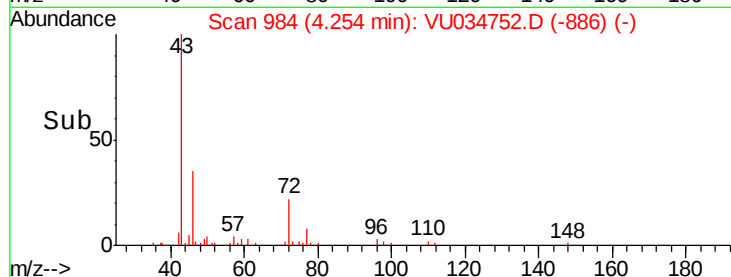
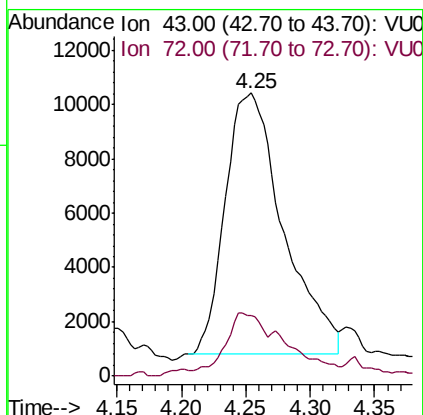
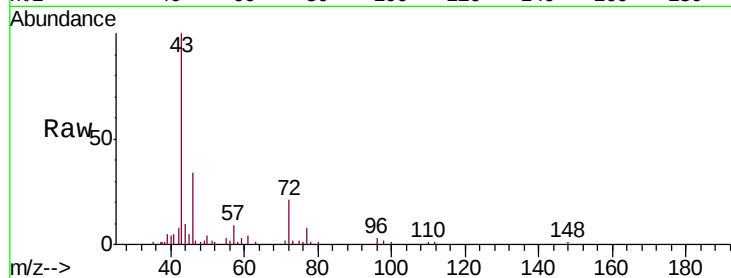




#22
2-Butanone
Concen: 5.471 ug/L
RT: 4.25 min Scan# 984
Delta R.T. 0.02 min
Lab File: VU034752.D
Acq: 23 Sep 2019 22:53

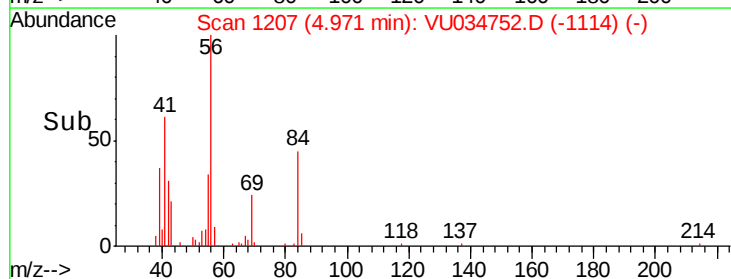
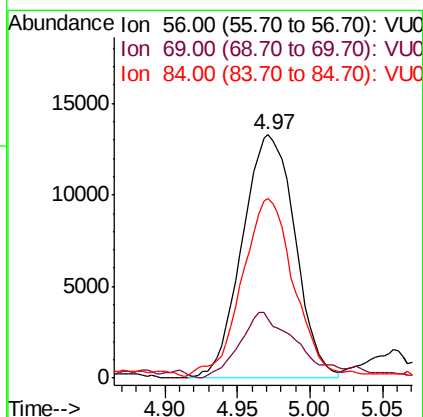
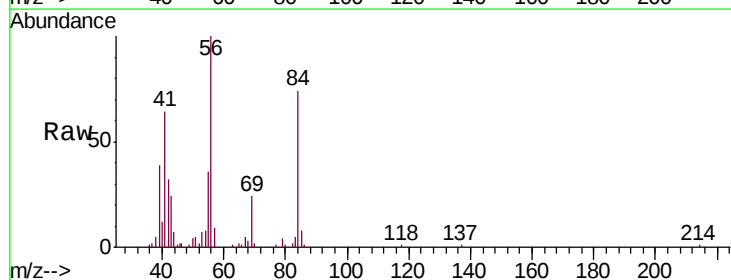
Instrument :
MSVOA_U
ClientSampleId :
BFDH0

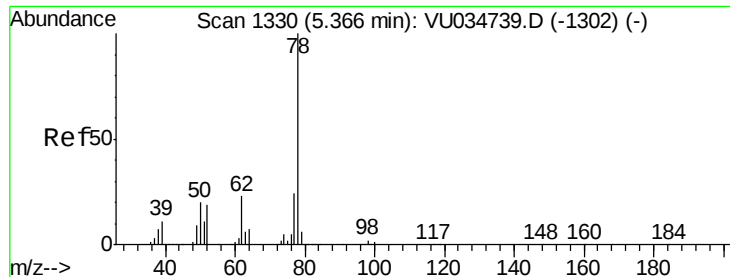
Tgt Ion: 43 Resp: 30064
Ion Ratio Lower Upper
43 100
72 12.0 10.2 30.6



#29
Cyclohexane
Concen: 4.320 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. 0.00 min
Lab File: VU034752.D
Acq: 23 Sep 2019 22:53

Tgt Ion: 56 Resp: 33594
Ion Ratio Lower Upper
56 100
69 28.8 21.7 32.5
84 68.0 58.8 88.2





#33

Benzene

Concen: 31.985 ug/L

RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VU034752.D

Acq: 23 Sep 2019 22:53

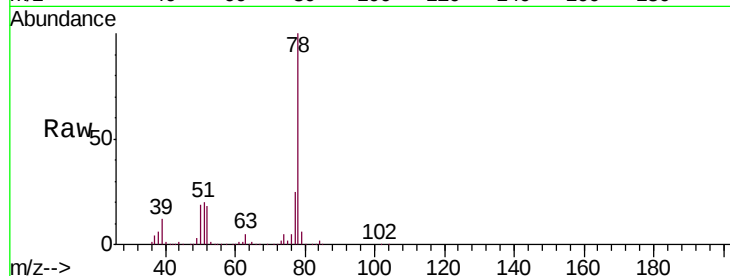
Instrument :

MSVOA_U

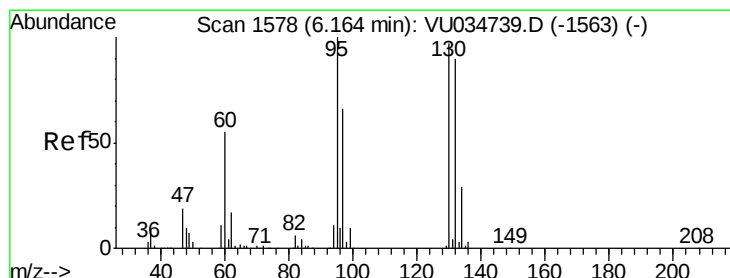
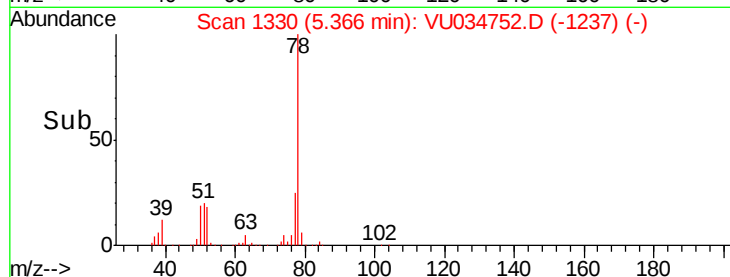
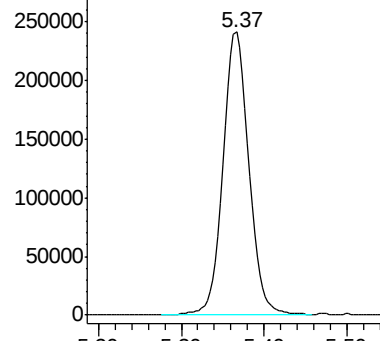
ClientSampleId :

BFDH0

Tgt Ion: 78 Resp: 522592



Abundance Ion 78.00 (77.70 to 78.70): VU0



#34

Trichloroethene

Concen: 28.697 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU034752.D

Acq: 23 Sep 2019 22:53

Tgt Ion: 95 Resp: 115796

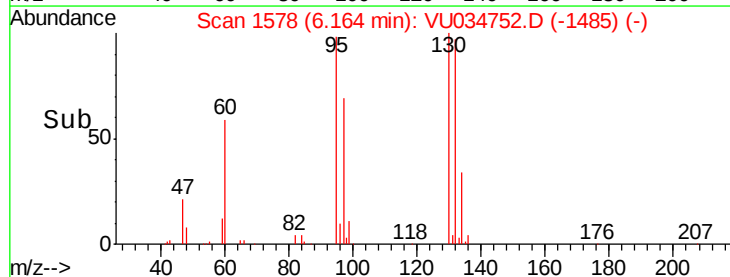
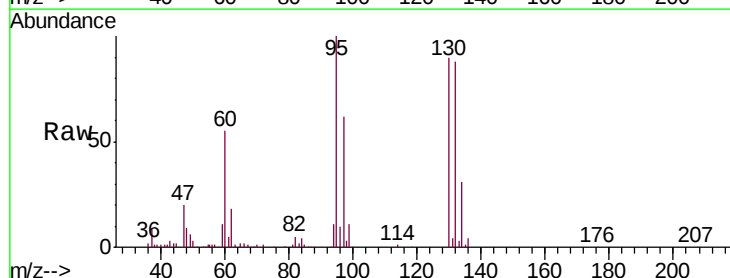
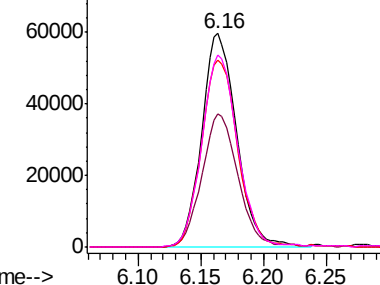
Ion	Ratio	Lower	Upper
95	100		
97	62.5	43.7	81.1
132	87.6	61.0	113.2
130	89.9	65.7	121.9

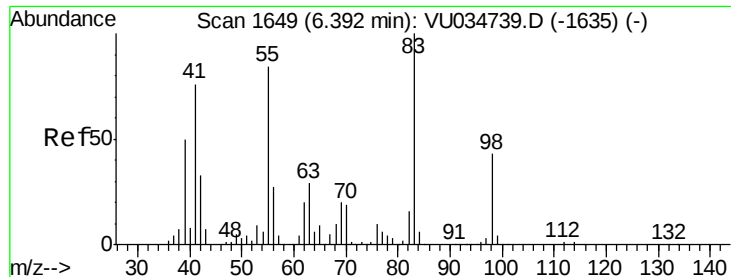
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

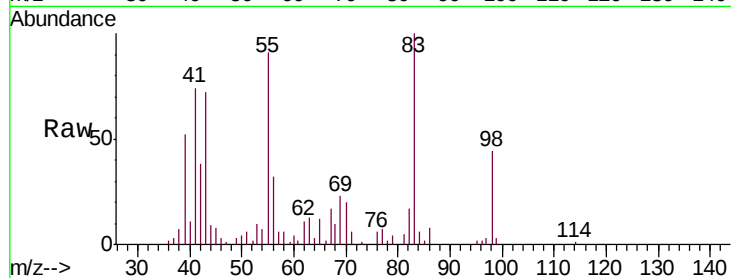




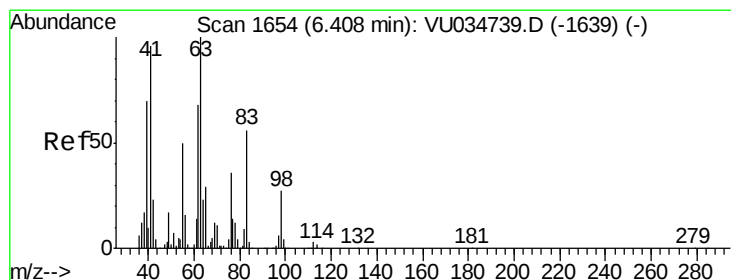
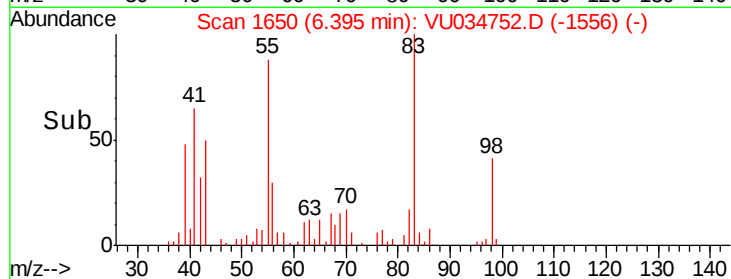
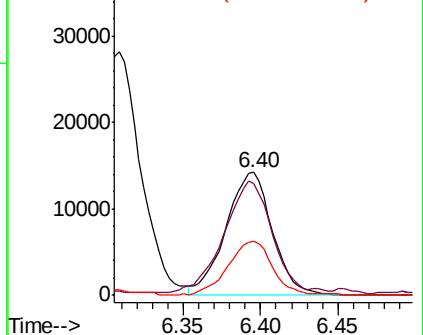
#35
Methylcyclohexane
Concen: 4.352 ug/L
RT: 6.40 min Scan# 1650
Delta R.T. 0.00 min
Lab File: VU034752.D
Acq: 23 Sep 2019 22:53

Instrument :
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ClientSampleId :
BFDH0

Tgt Ion: 83 Resp: 29798
Ion Ratio Lower Upper
83 100
55 92.1 71.6 107.4
98 42.1 35.7 53.5

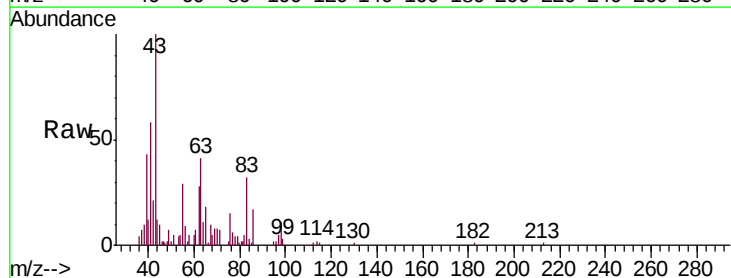


Abundance Ion 83.00 (82.70 to 83.70): VU0
Ion 55.00 (54.70 to 55.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

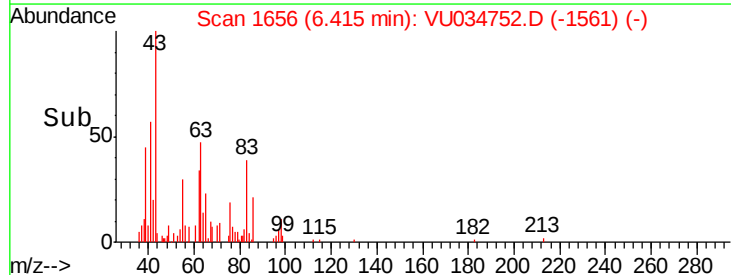
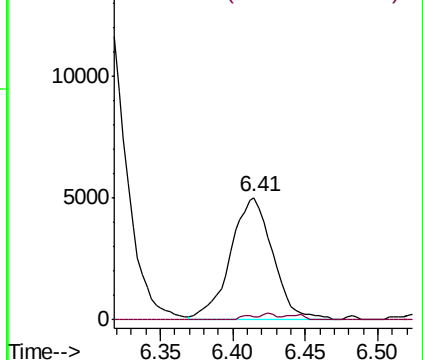


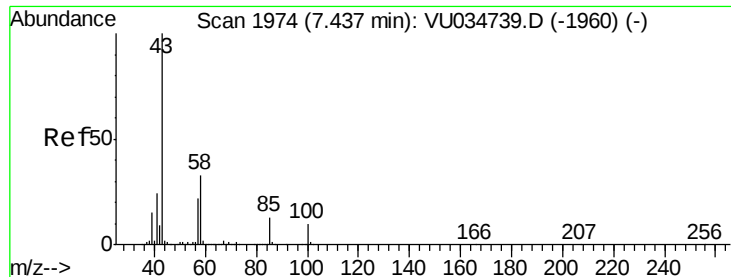
#37
1,2-Dichloropropane
Concen: 2.103 ug/L
RT: 6.41 min Scan# 1656
Delta R.T. 0.01 min
Lab File: VU034752.D
Acq: 23 Sep 2019 22:53

Tgt Ion: 63 Resp: 10231
Ion Ratio Lower Upper
63 100
112 1.1 2.4 3.6#



Abundance Ion 63.00 (62.70 to 63.70): VU0
Ion 112.00 (111.70 to 112.70): V

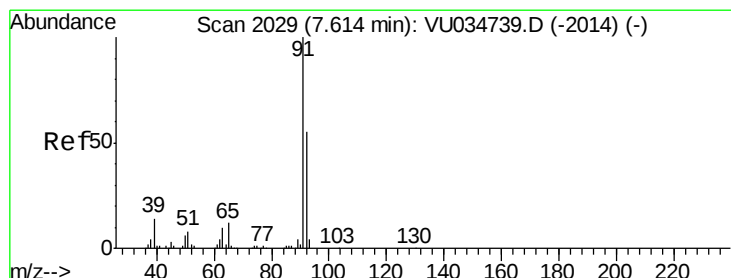
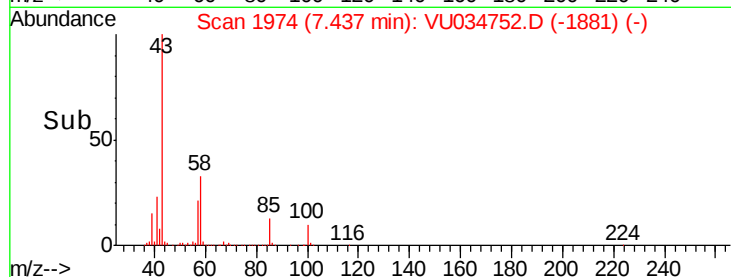
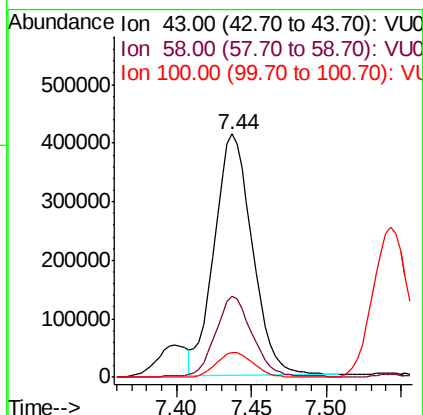
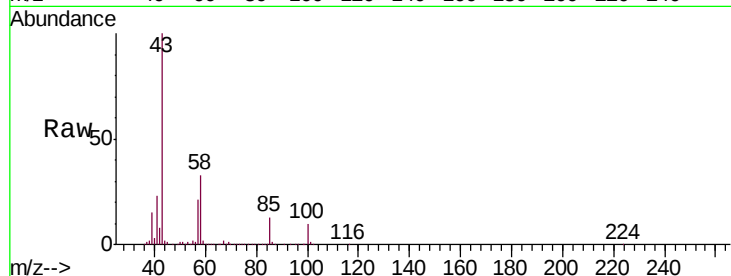




#40
 4-Methyl-2-pentanone
 Concen: 77.997 ug/L
 RT: 7.44 min Scan# 1974
 Delta R.T. 0.00 min
 Lab File: VU034752.D
 Acq: 23 Sep 2019 22:53

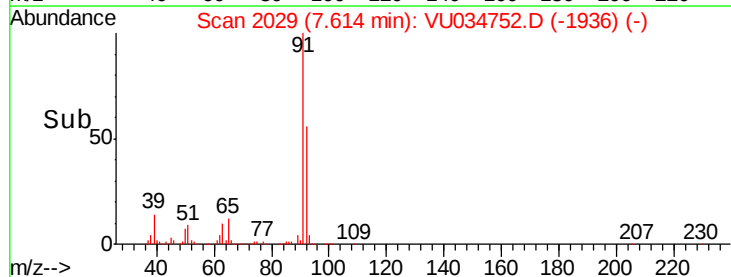
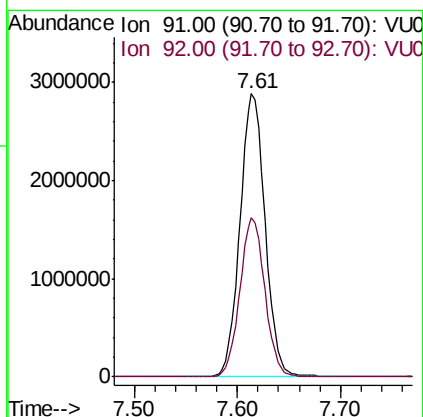
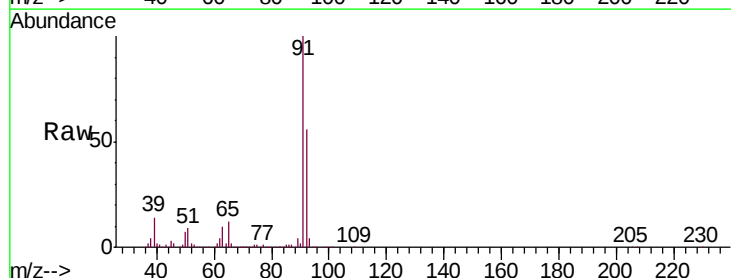
Instrument :
 MSVOA_U
 ClientSampleId :
 BFDH0

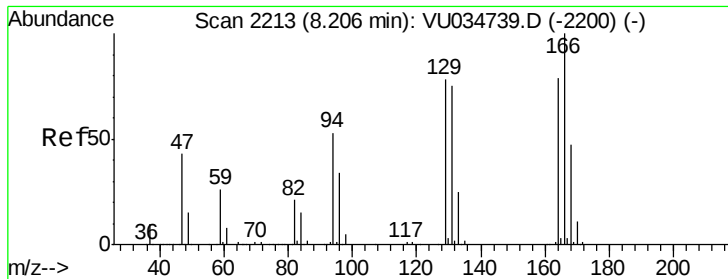
Tgt Ion: 43 Resp: 724453
 Ion Ratio Lower Upper
 43 100
 58 33.9 25.2 37.8
 100 10.3 7.7 11.5



#42
 Toluene
 Concen: 277.381 ug/L
 RT: 7.61 min Scan# 2029
 Delta R.T. 0.00 min
 Lab File: VU034752.D
 Acq: 23 Sep 2019 22:53

Tgt Ion: 91 Resp: 4897896
 Ion Ratio Lower Upper
 91 100
 92 56.1 38.2 71.0





#46

Tetrachloroethene

Concen: 9.008 ug/L

RT: 8.21 min Scan# 2213

Delta R.T. 0.00 min

Lab File: VU034752.D

Acq: 23 Sep 2019 22:53

Instrument :

MSVOA_U

ClientSampleId :

BFDH0

Tgt Ion:164 Resp: 25569

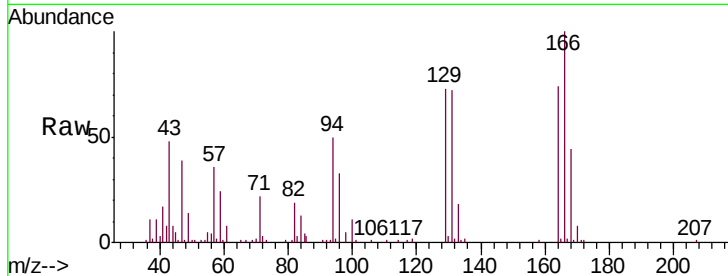
Ion Ratio Lower Upper

164 100

129 98.6 71.9 133.5

131 97.1 66.3 123.1

166 134.4 93.4 173.6

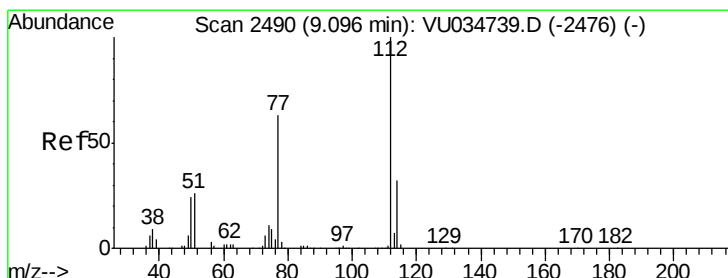
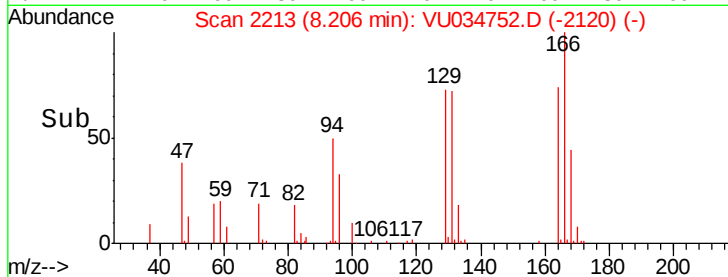
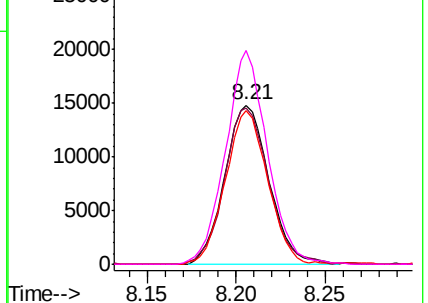


Abundance Ion 164.00 (163.70 to 164.70): V

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



#51

Chlorobenzene

Concen: 0.946 ug/L

RT: 9.10 min Scan# 2491

Delta R.T. 0.00 min

Lab File: VU034752.D

Acq: 23 Sep 2019 22:53

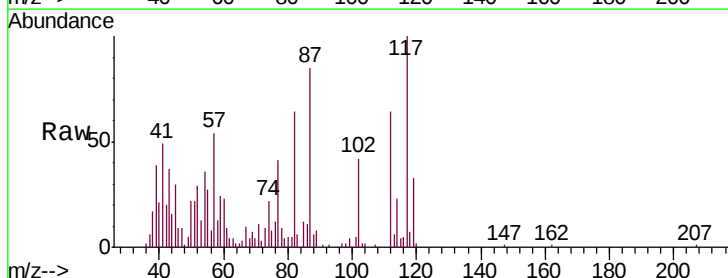
Tgt Ion:112 Resp: 10158

Ion Ratio Lower Upper

112 100

114 36.5 22.8 42.4

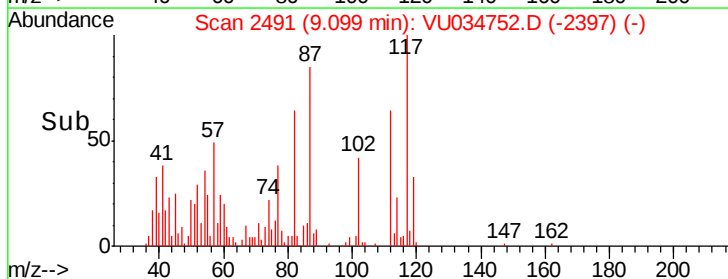
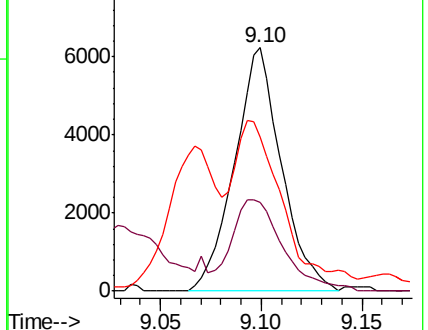
77 63.4 51.5 77.3

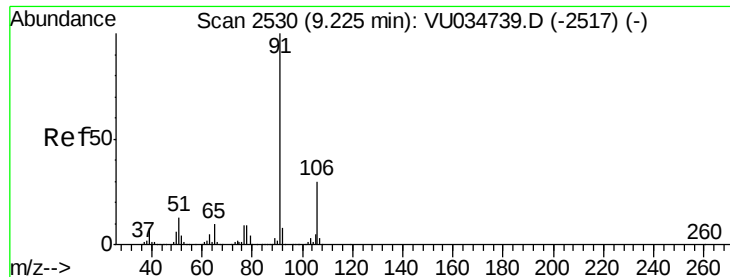


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU0





#52

Ethylbenzene

Concen: 59.309 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU034752.D

Acq: 23 Sep 2019 22:53

Instrument :

MSVOA_U

ClientSampleId :

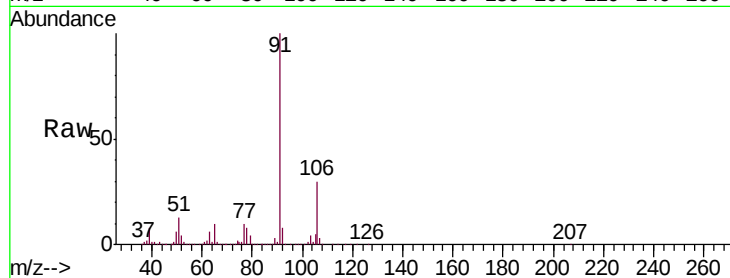
BFDH0

Tgt Ion: 91 Resp: 1179294

Ion Ratio Lower Upper

91 100

106 30.4 20.6 38.4



Abundance Ion 91.00 (90.70 to 91.70): VU034739.D (-2517) (-)

Ion 106.00 (105.70 to 106.70): VU034739.D (-2517) (-)

2500000

2000000

1500000

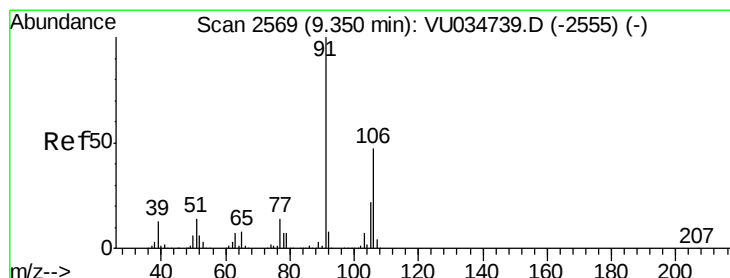
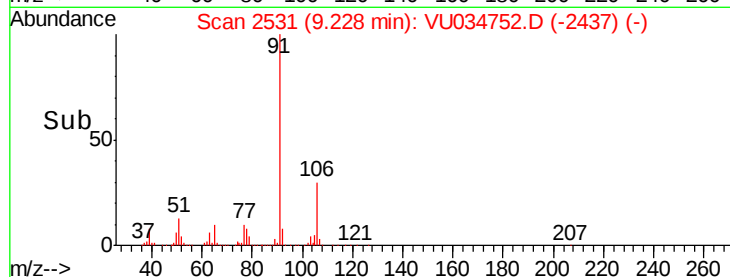
1000000

500000

0

9.15 9.20 9.25 9.30 9.35

Time-->



#53

m,p-Xylene

Concen: 237.627 ug/L

RT: 9.35 min Scan# 2569

Delta R.T. 0.00 min

Lab File: VU034752.D

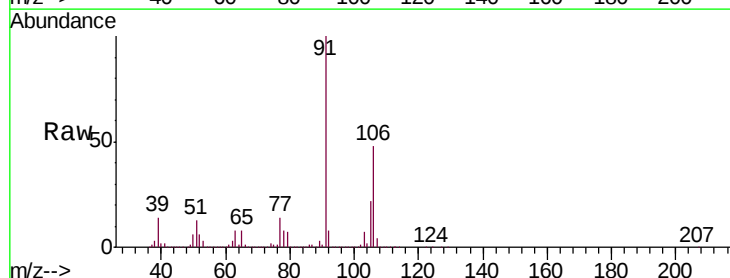
Acq: 23 Sep 2019 22:53

Tgt Ion: 106 Resp: 1673561

Ion Ratio Lower Upper

106 100

91 209.1 146.9 272.7



Abundance Ion 106.00 (105.70 to 106.70): VU034739.D (-2555) (-)

Ion 91.00 (90.70 to 91.70): VU034739.D (-2555) (-)

2500000

2000000

1500000

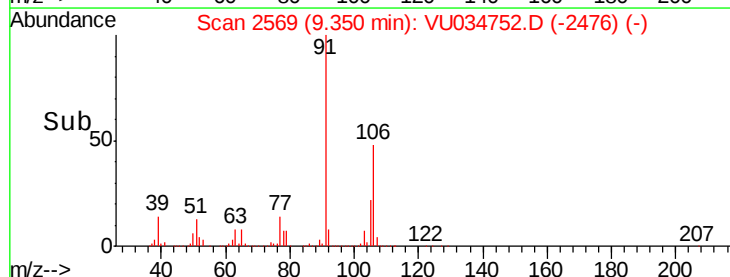
1000000

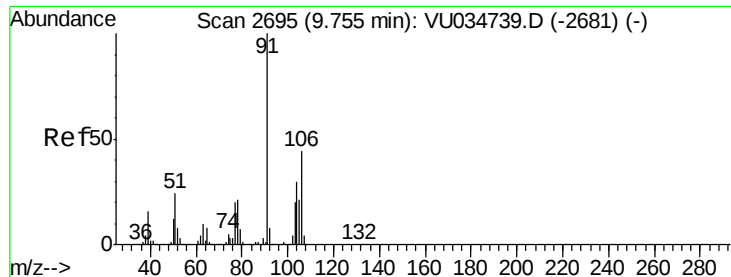
500000

0

9.25 9.30 9.35 9.40 9.45

Time-->





#54

o-xylene

Concen: 144.651 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VU034752.D

Acq: 23 Sep 2019 22:53

Instrument :

MSVOA_U

ClientSampleId :

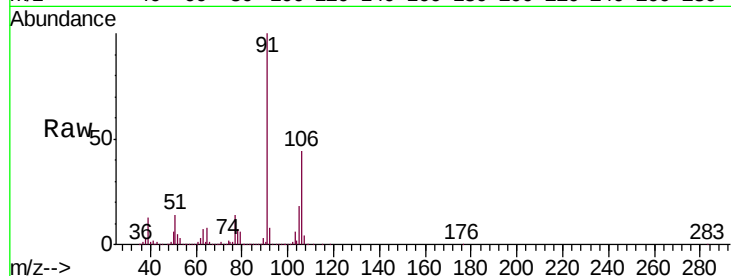
BFDH0

Tgt Ion:106 Resp: 1007629

Ion Ratio Lower Upper

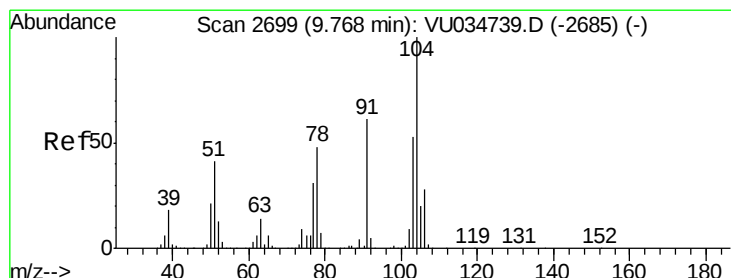
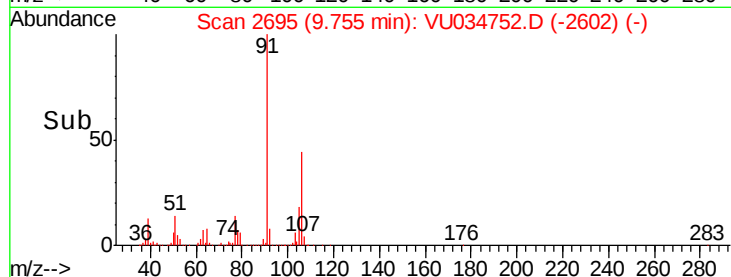
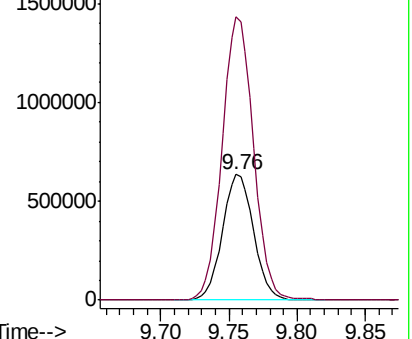
106 100

91 225.4 155.6 289.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 4.955 ug/L

RT: 9.76 min Scan# 2696

Delta R.T. -0.01 min

Lab File: VU034752.D

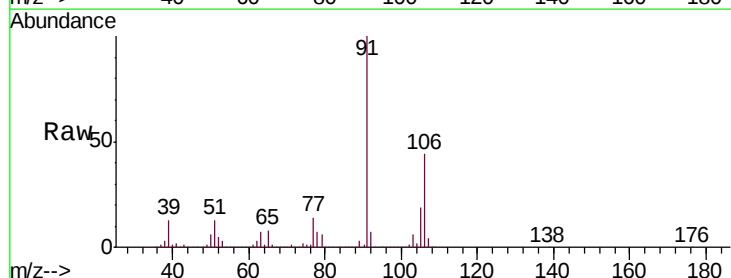
Acq: 23 Sep 2019 22:53

Tgt Ion:104 Resp: 58430

Ion Ratio Lower Upper

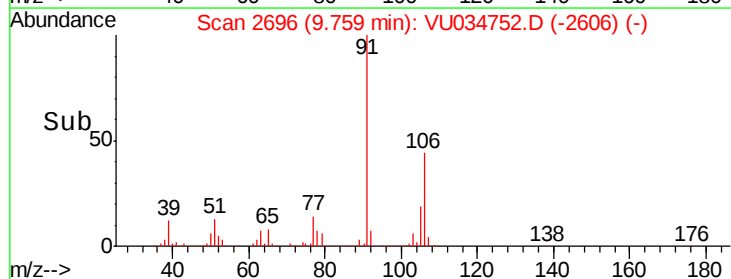
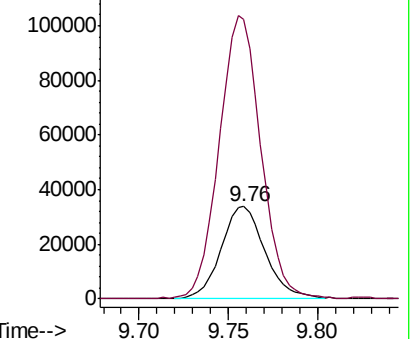
104 100

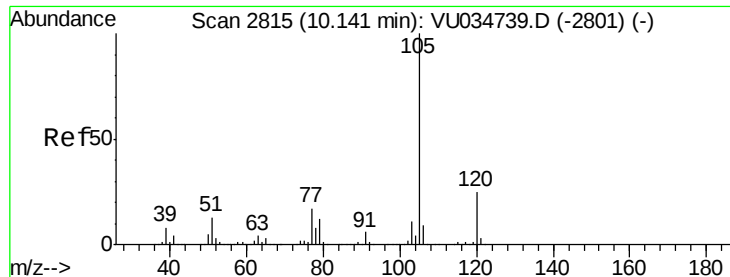
78 303.0 35.1 65.3#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 5.473 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. 0.00 min

Lab File: VU034752.D

Acq: 23 Sep 2019 22:53

Instrument :

MSVOA_U

ClientSampleId :

BFDH0

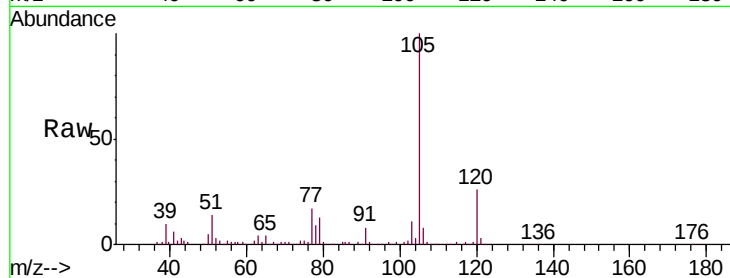
Tgt Ion:105 Resp: 102792

Ion Ratio Lower Upper

105 100

120 26.5 20.4 30.6

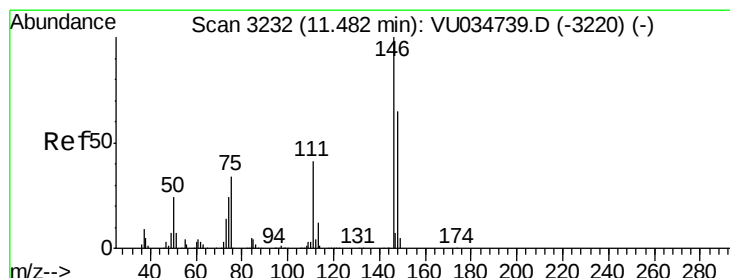
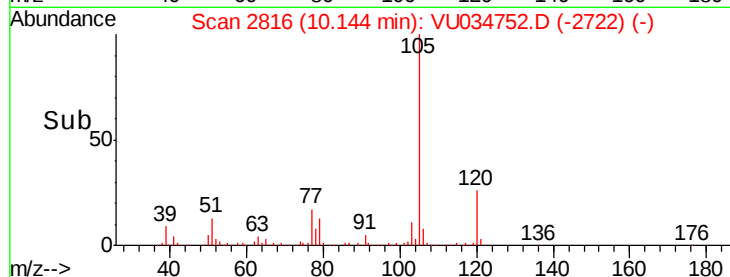
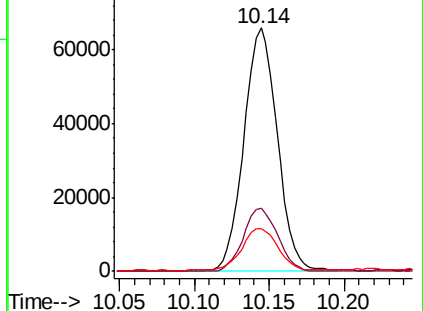
77 18.3 14.2 21.4



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): VU



#63

1,4-Dichlorobenzene

Concen: 1.944 ug/L

RT: 11.49 min Scan# 3233

Delta R.T. 0.00 min

Lab File: VU034752.D

Acq: 23 Sep 2019 22:53

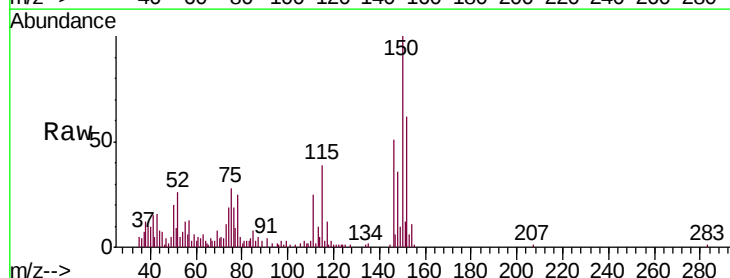
Tgt Ion:146 Resp: 16246

Ion Ratio Lower Upper

146 100

111 49.2 29.5 54.9

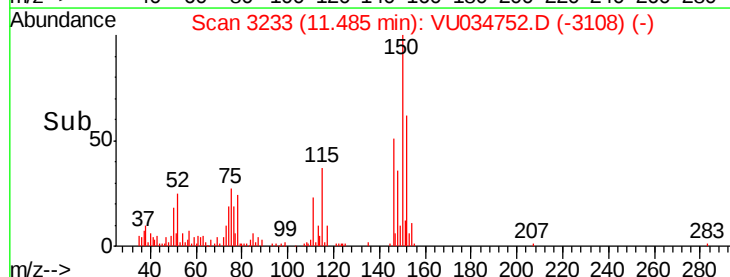
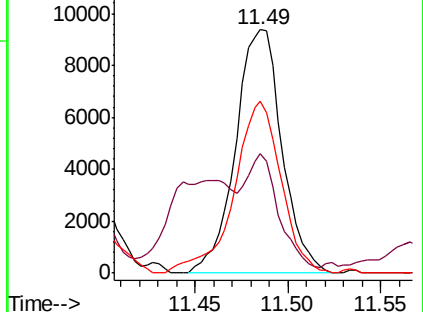
148 70.5 44.4 82.4

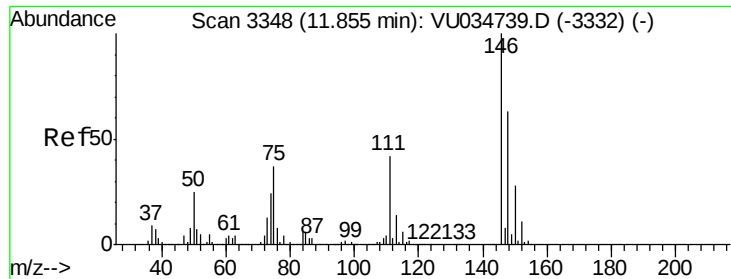


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 16.451 ug/L

RT: 11.85 min Scan# 3348

Delta R.T. 0.00 min

Lab File: VU034752.D

Acq: 23 Sep 2019 22:53

Instrument :

MSVOA_U

ClientSampleId :

BFDH0

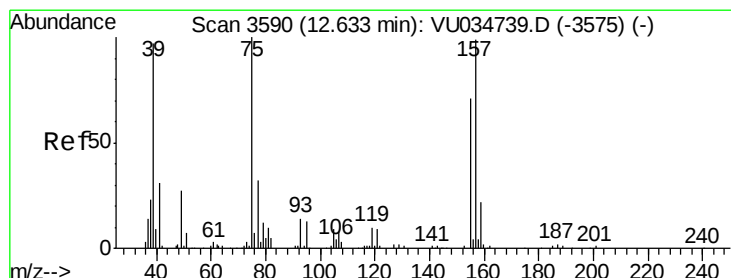
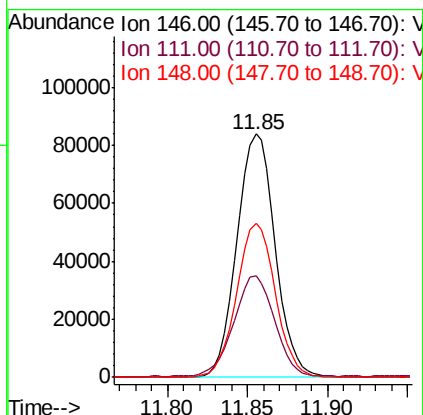
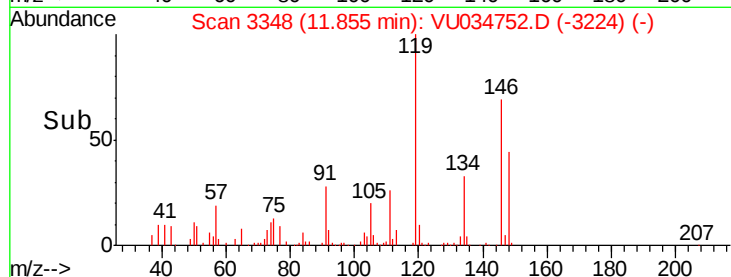
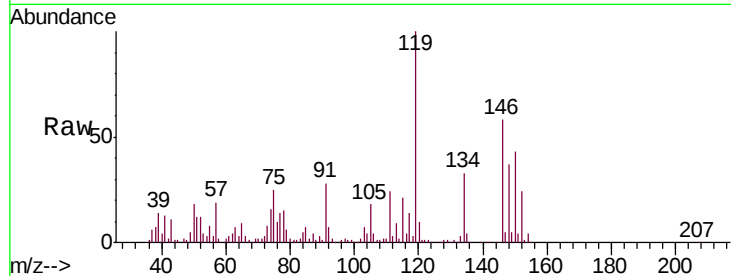
Tgt Ion:146 Resp: 136362

Ion Ratio Lower Upper

146 100

111 41.9 35.2 52.8

148 63.5 53.0 79.6



#66

1,2-Dibromo-3-chloropropane

Concen: 1.240 ug/L

RT: 12.63 min Scan# 3589

Delta R.T. -0.00 min

Lab File: VU034752.D

Acq: 23 Sep 2019 22:53

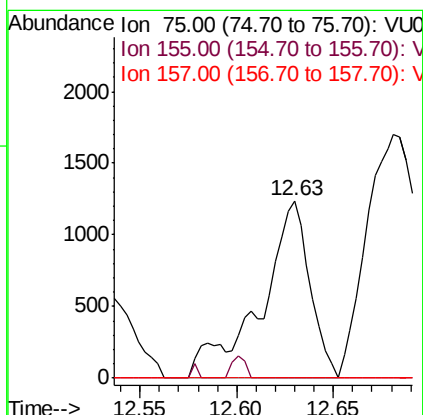
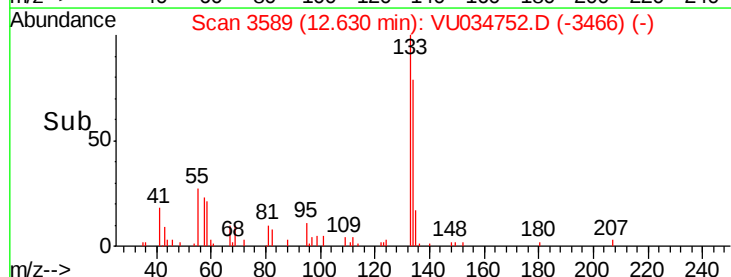
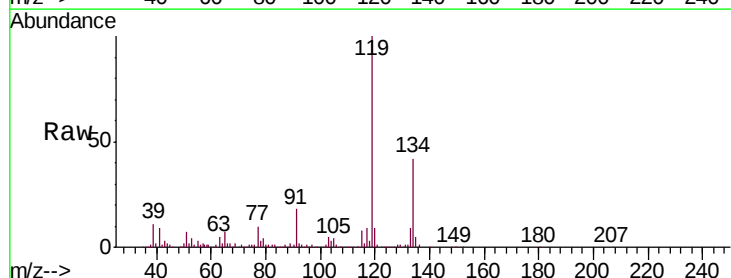
Tgt Ion: 75 Resp: 2184

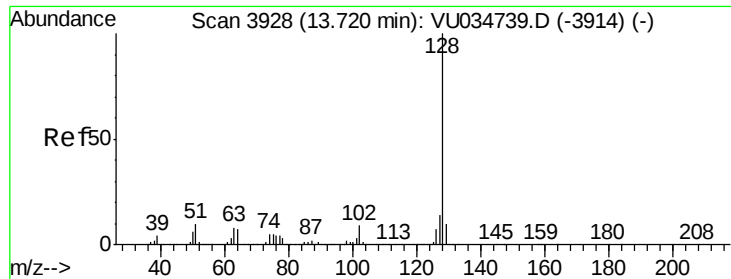
Ion Ratio Lower Upper

75 100

155 0.0 54.7 82.1#

157 0.0 69.9 104.9#





#69

Naphthalene

Concen: 150.777 ug/L

RT: 13.72 min Scan# 3928

Delta R.T. 0.00 min

Lab File: VU034752.D

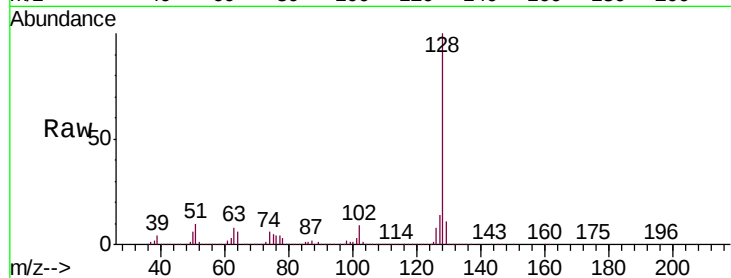
Acq: 23 Sep 2019 22:53

Instrument :

MSVOA_U

ClientSampleId :

BFDH0



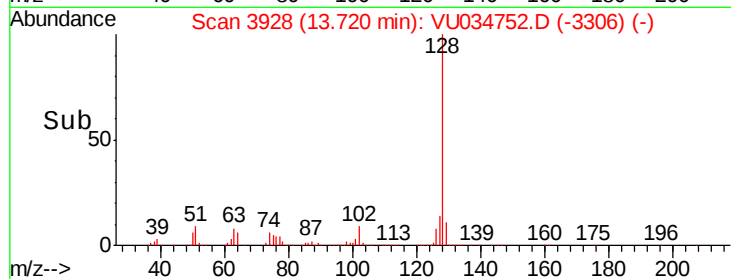
Tgt Ion:128 Resp: 2256221

Ion Ratio Lower Upper

128 100

127 13.6 10.8 16.2

129 10.8 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

