

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090719\
 Data File : VU034363.D
 Acq On : 07 Sep 2019 04:32
 Operator : JC/SP
 Sample : K4725-07
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 S13-0263

Quant Time: Sep 07 05:51:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 06 05:10:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	294798	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	441485	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	439082	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	267654	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	220043	49.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.66%	
35) Dibromofluoromethane	4.86	113	195110	47.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.98%	
50) Toluene-d8	7.55	98	745213	48.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.56%	
62) 4-Bromofluorobenzene	10.29	95	271699	45.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.20%	

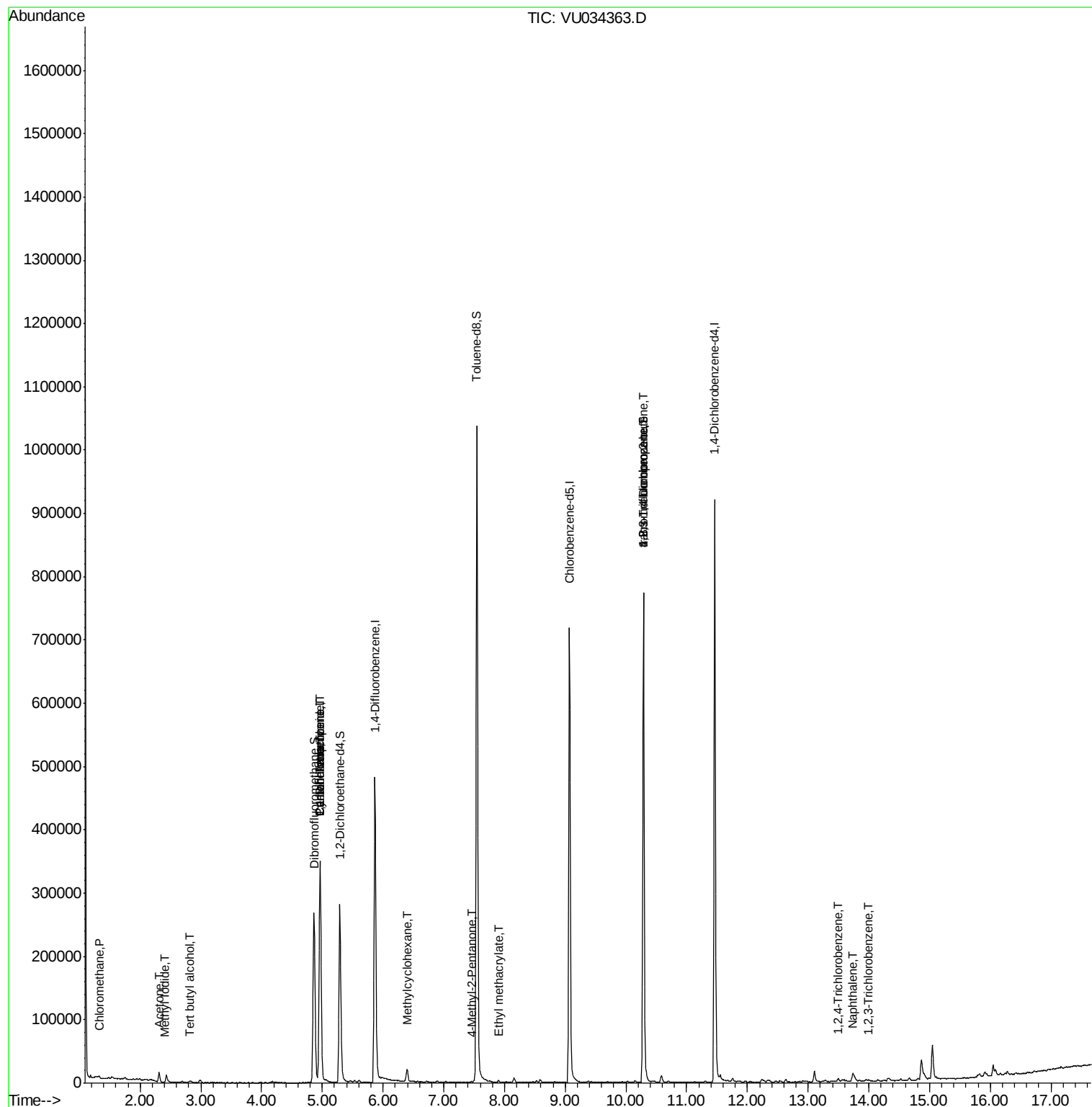
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	2097	0.545	ug/l #	87
5) Bromomethane	1.63	94	420	Below Cal		100
6) Chloroethane	1.69	64	134	Below Cal	#	43
10) Methyl Iodide	2.40	142	50	3.861	ug/l #	43
11) Tert butyl alcohol	2.83	59	1821	1.932	ug/l #	73
16) Acetone	2.31	43	15523	6.725	ug/l	89
20) Methylene Chloride	2.68	84	245	Below Cal	#	58
31) Cyclohexane	4.96	56	3527	0.675	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	19372	4.046	ug/l #	48
38) Carbon Tetrachloride	4.96	117	25350	4.959	ug/l #	15
39) Methylcyclohexane	6.40	83	8800	1.719	ug/l	94
51) 4-Methyl-2-Pentanone	7.45	43	1874	0.307	ug/l #	34
56) Ethyl methacrylate	7.92	69	19	3.079	ug/l #	28
76) 1,2,3-Trichloropropane	10.29	75	126751	21.695	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	126751	72.959	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.49	180	264	3.490	ug/l #	1
95) Naphthalene	13.74	128	19679	4.982	ug/l #	96
96) 1,2,3-Trichlorobenzene	13.98	180	234	2.675	ug/l #	75

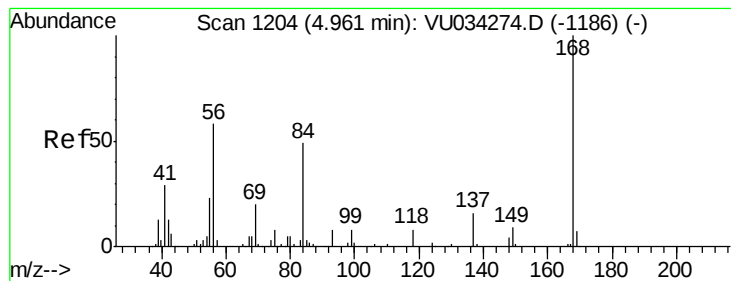
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. 0.00 min

Lab File: VU034363.D

Acq: 07 Sep 2019 04:32

Instrument :

MSVOA_U

ClientSampleId :

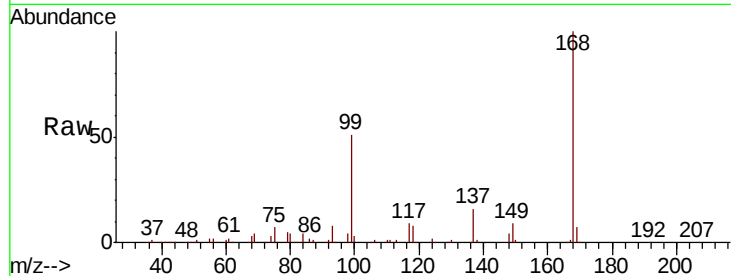
S13-0263

Tgt Ion:168 Resp: 294798

Ion Ratio Lower Upper

168 100

99 50.8 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): VU034274.D (-1186) (-)

Ion 98.90 (98.60 to 99.60): VU034363.D (-1111) (-)

4.96

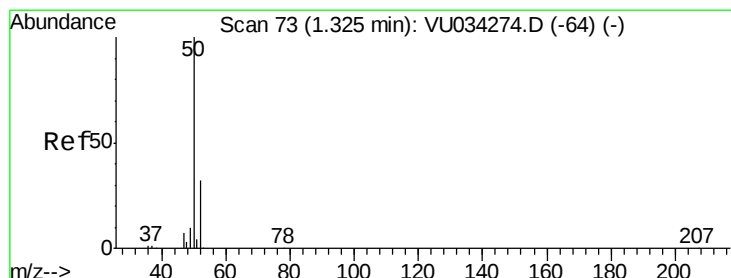
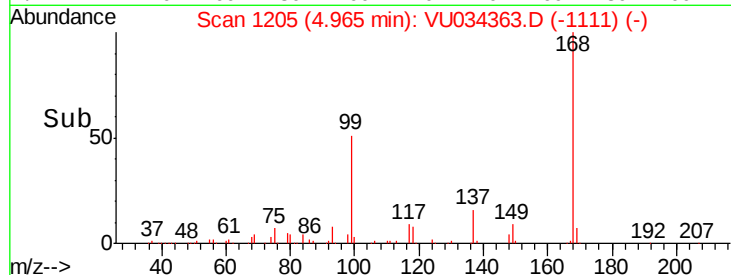
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.545 ug/l

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU034363.D

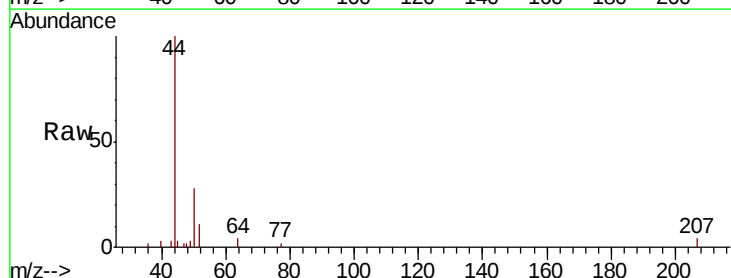
Acq: 07 Sep 2019 04:32

Tgt Ion: 50 Resp: 2097

Ion Ratio Lower Upper

50 100

52 39.4 25.8 38.6#



Abundance Ion 49.90 (49.60 to 50.60): VU034274.D (-64) (-)

Ion 51.90 (51.60 to 52.60): VU034363.D (-1) (-)

1.33

2000

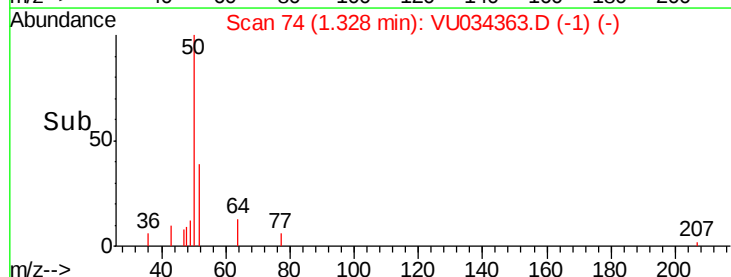
1500

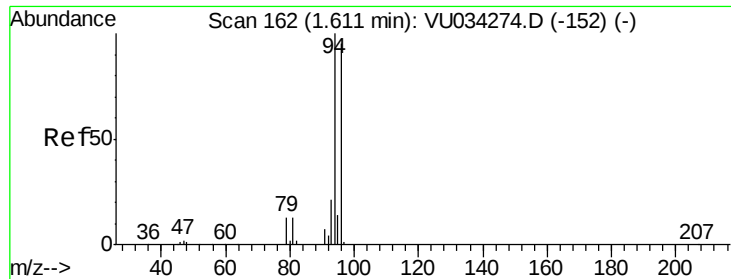
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 168

Delta R.T. 0.02 min

Lab File: VU034363.D

Acq: 07 Sep 2019 04:32

Instrument :

MSVOA_U

ClientSampleId :

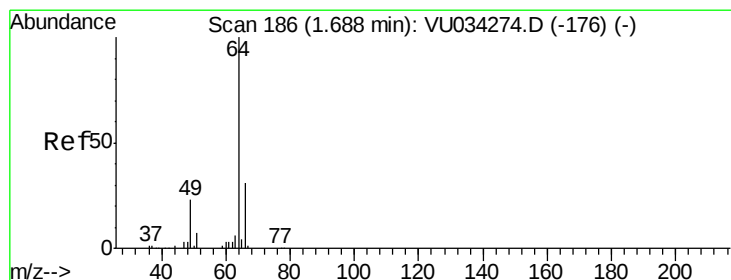
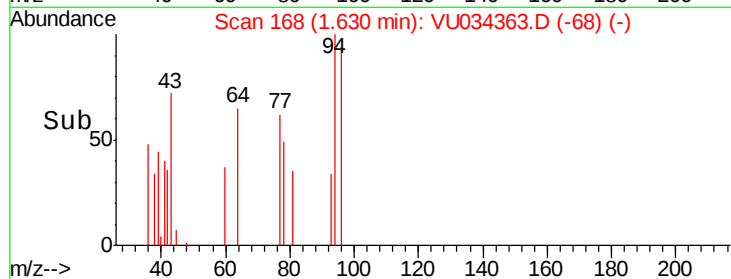
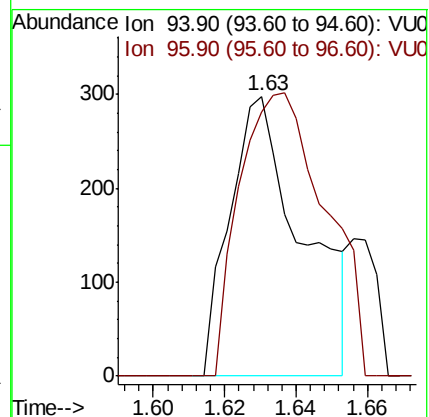
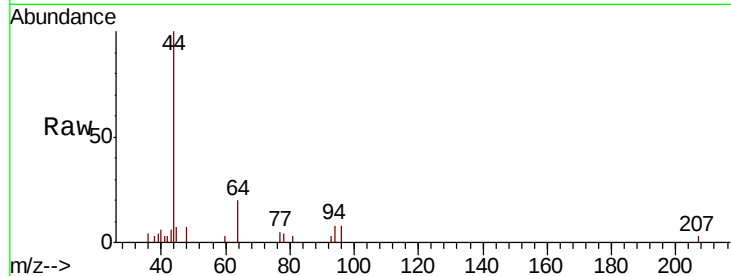
S13-0263

Tgt Ion: 94 Resp: 420

Ion Ratio Lower Upper

94 100

96 94.3 75.7 113.5



#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU034363.D

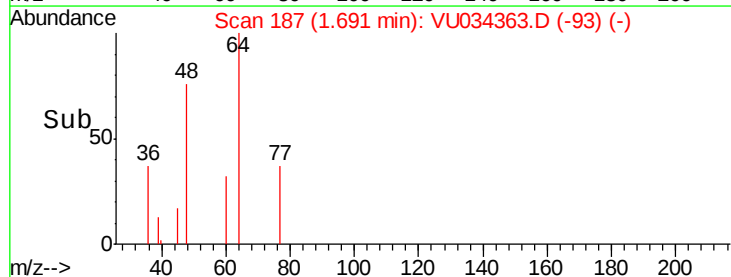
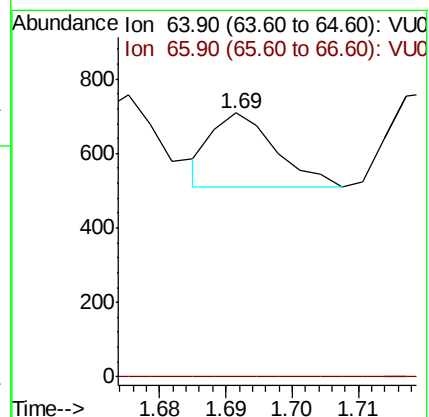
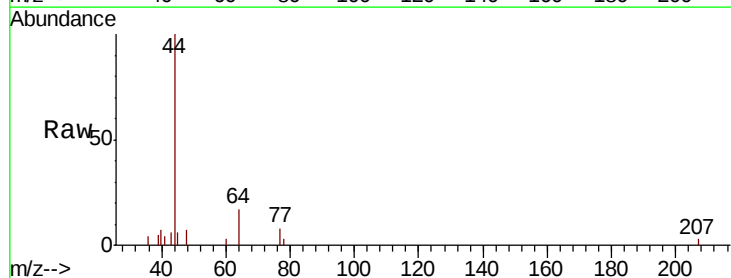
Acq: 07 Sep 2019 04:32

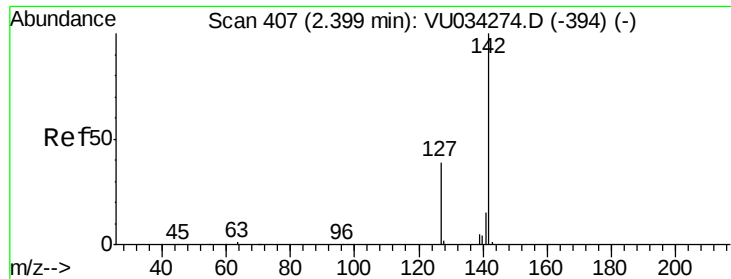
Tgt Ion: 64 Resp: 134

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#

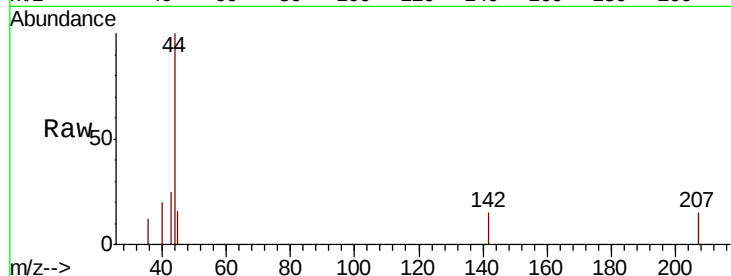




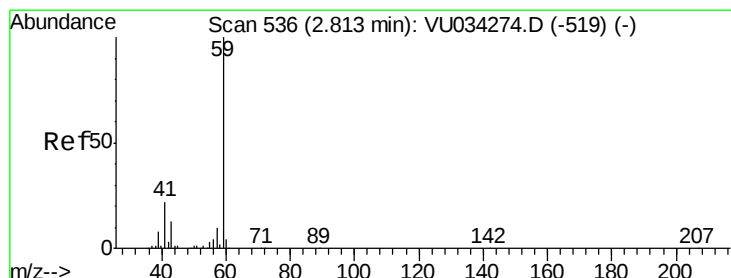
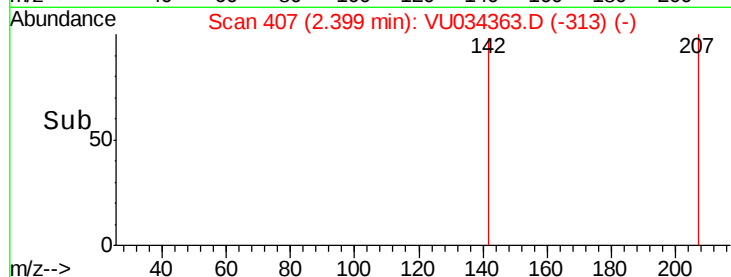
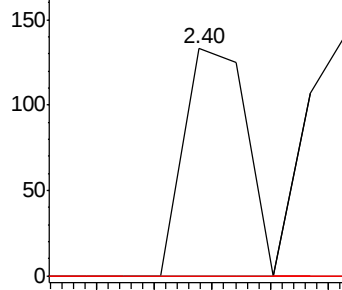
#10
Methyl Iodide
Concen: 3.861 ug/l
RT: 2.40 min Scan# 407
Delta R.T. 0.00 min
Lab File: VU034363.D
Acq: 07 Sep 2019 04:32

Instrument :
MSVOA_U
ClientSampleId :
S13-0263

Tgt Ion: 142 Resp: 50
Ion Ratio Lower Upper
142 100
127 0.0 32.1 48.1#
141 0.0 11.5 17.3#

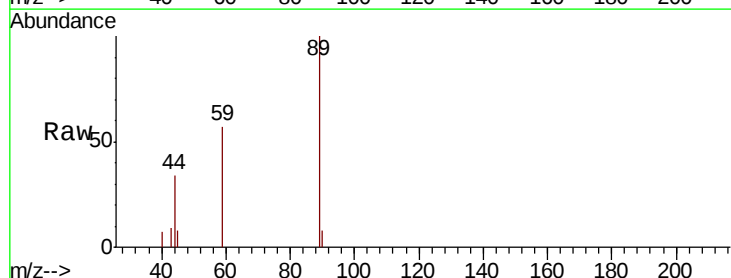


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

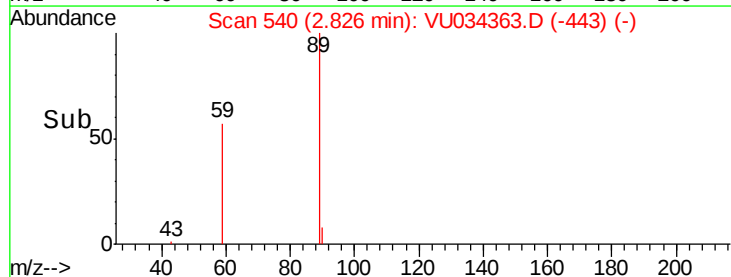
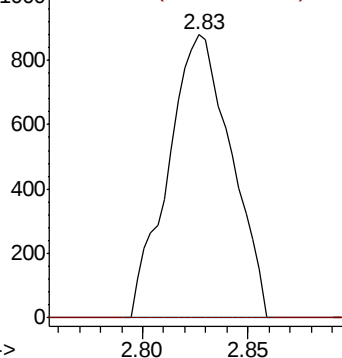


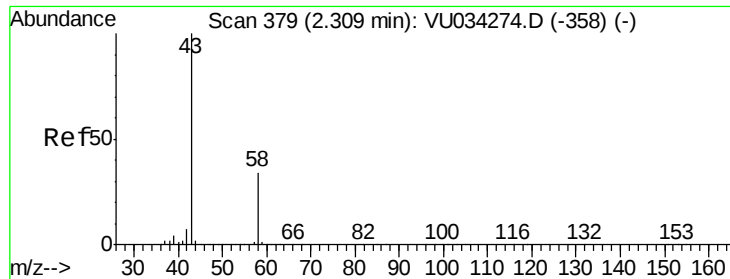
#11
Tert butyl alcohol
Concen: 1.932 ug/l
RT: 2.83 min Scan# 540
Delta R.T. 0.01 min
Lab File: VU034363.D
Acq: 07 Sep 2019 04:32

Tgt Ion: 59 Resp: 1821
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VU0
Ion 57.00 (56.70 to 57.70): VU0





#16

Acetone

Concen: 6.725 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034363.D

Acq: 07 Sep 2019 04:32

Instrument :

MSVOA_U

ClientSampleId :

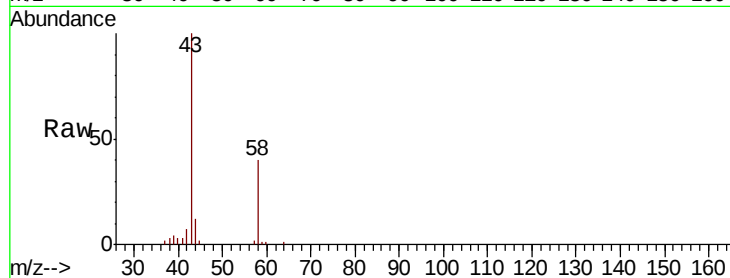
S13-0263

Tgt Ion: 43 Resp: 15523

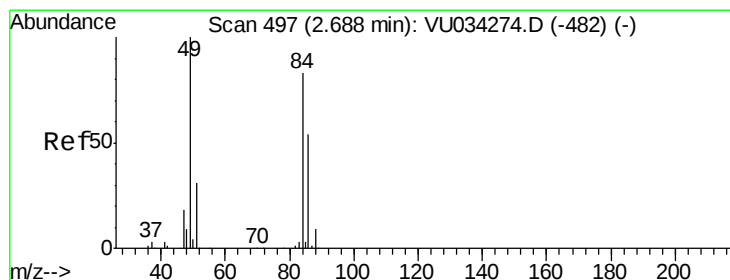
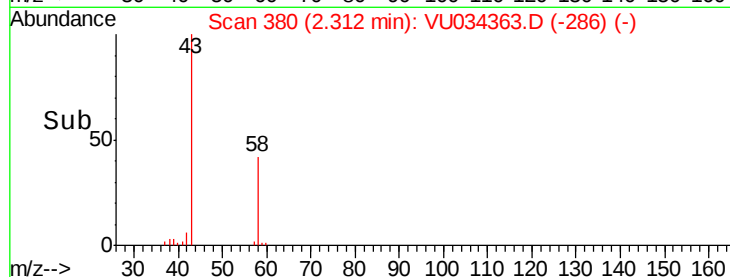
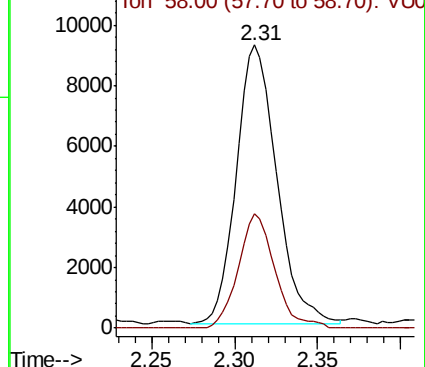
Ion Ratio Lower Upper

43 100

58 41.0 27.6 41.4



Abundance Ion 43.00 (42.70 to 43.70): VU034274.D (-358) (-)



#20

Methylene Chloride

Concen: Below Cal

RT: 2.68 min Scan# 496

Delta R.T. -0.00 min

Lab File: VU034363.D

Acq: 07 Sep 2019 04:32

Tgt Ion: 84 Resp: 245

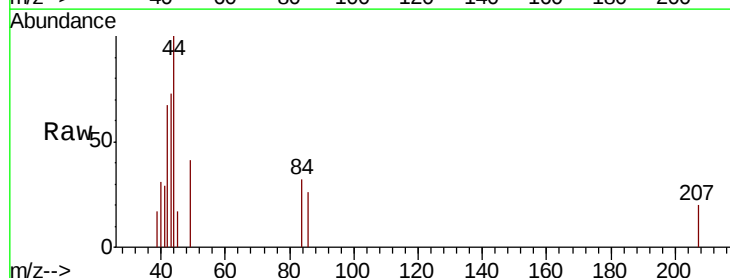
Ion Ratio Lower Upper

84 100

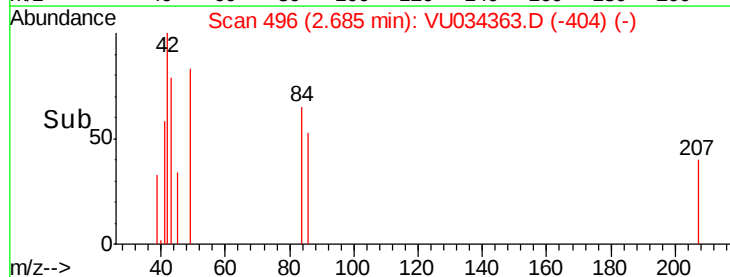
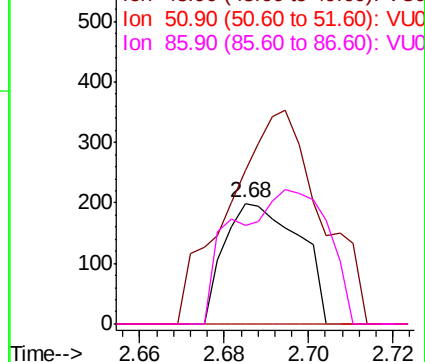
49 68.8 96.0 144.0#

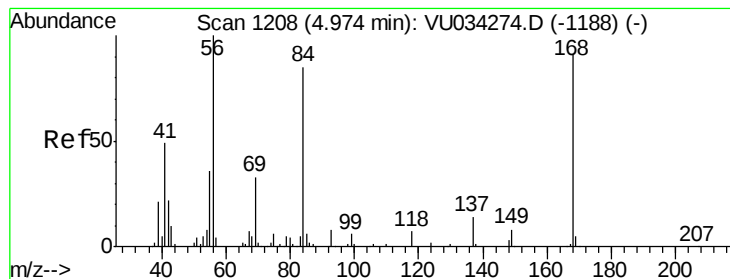
51 0.0 30.0 45.0#

86 81.4 51.4 77.0#



Abundance Ion 83.90 (83.60 to 84.60): VU034274.D (-482) (-)





#31

Cyclohexane

Concen: 0.675 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU034363.D

Acq: 07 Sep 2019 04:32

Instrument :

MSVOA_U

ClientSampleId :

S13-0263

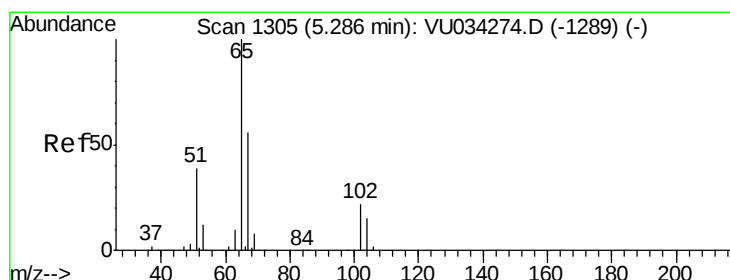
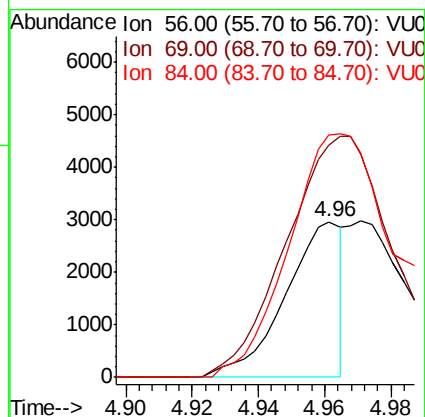
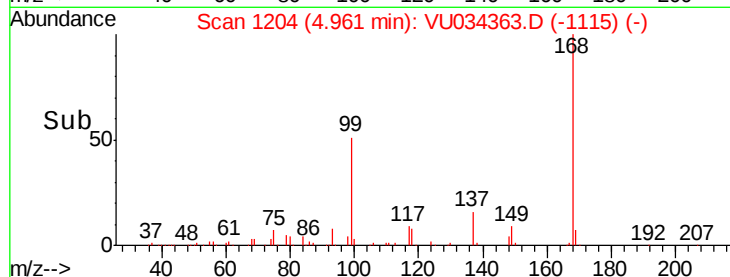
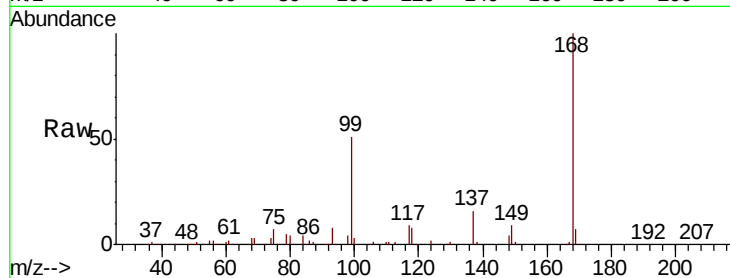
Tgt Ion: 56 Resp: 3527

Ion Ratio Lower Upper

56 100

69 149.2 26.7 40.1#

84 155.1 68.2 102.4#



#33

1,2-Dichloroethane-d4

Concen: 49.333 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034363.D

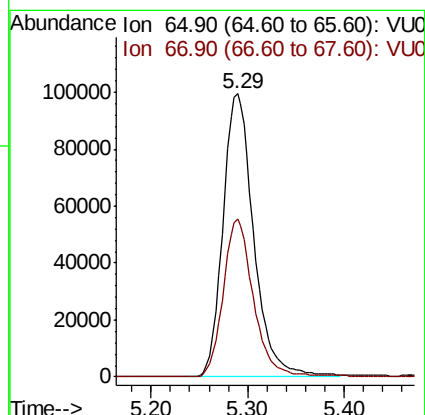
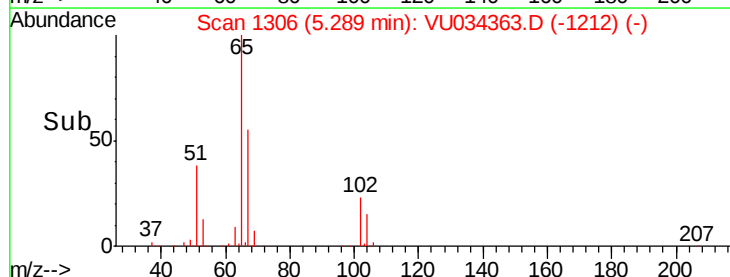
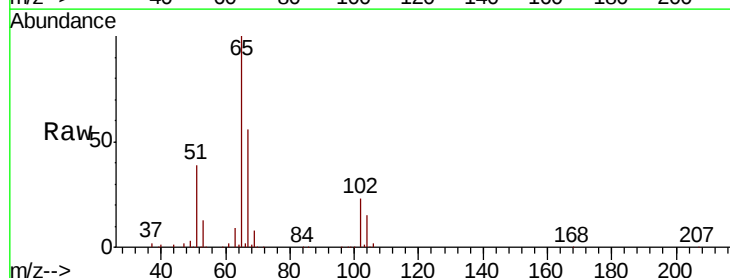
Acq: 07 Sep 2019 04:32

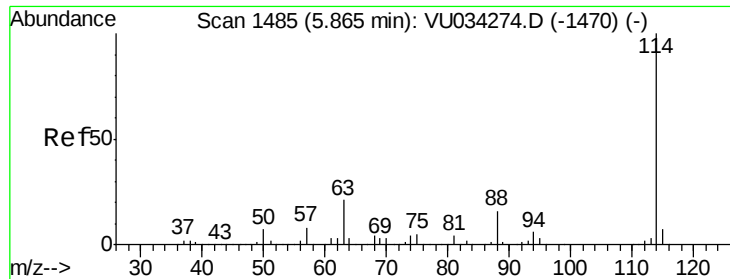
Tgt Ion: 65 Resp: 220043

Ion Ratio Lower Upper

65 100

67 54.1 0.0 112.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.87 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VU034363.D

Acq: 07 Sep 2019 04:32

Instrument :

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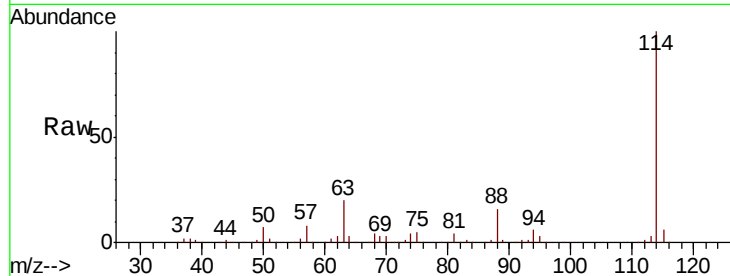
Tgt Ion:114 Resp: 441485

Ion Ratio Lower Upper

114 100

63 19.9 0.0 42.4

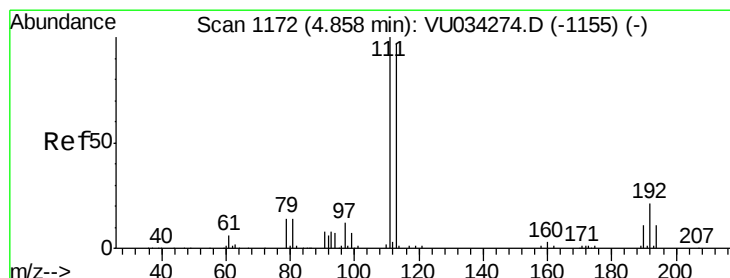
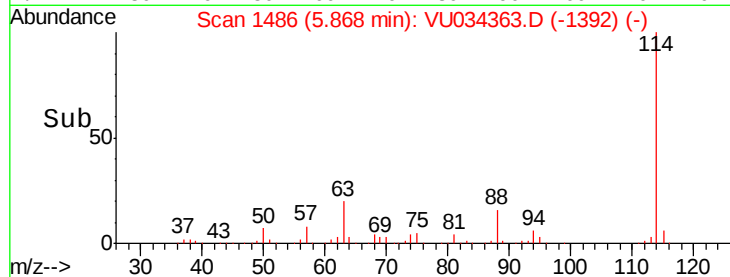
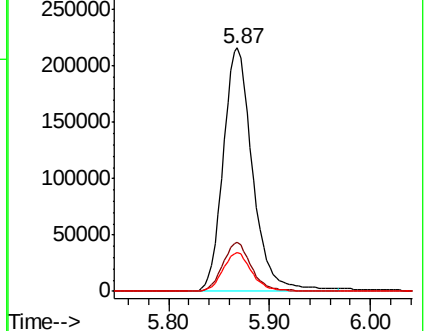
88 16.1 0.0 32.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0



#35

Dibromofluoromethane

Concen: 47.495 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034363.D

Acq: 07 Sep 2019 04:32

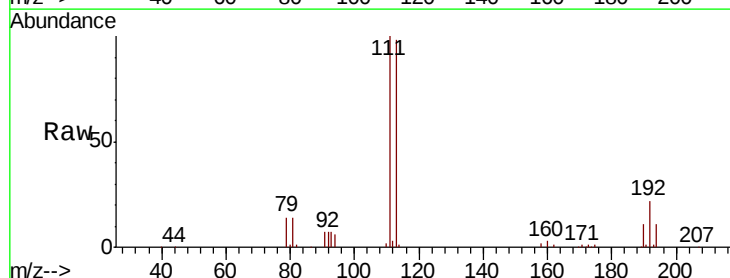
Tgt Ion:113 Resp: 195110

Ion Ratio Lower Upper

113 100

111 102.6 81.5 122.3

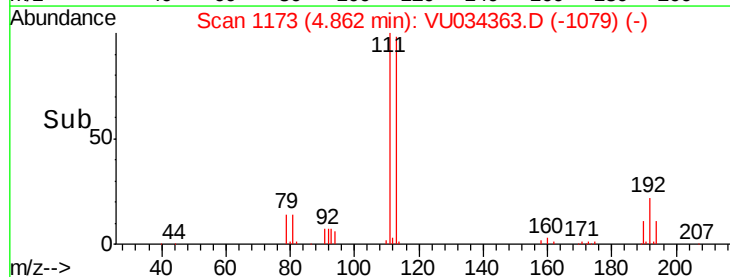
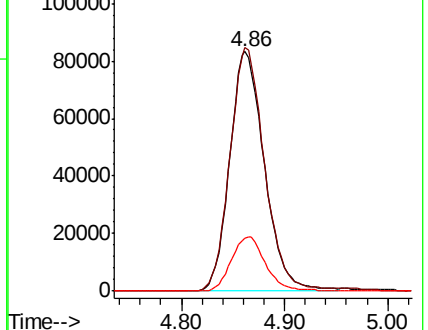
192 22.4 17.8 26.8

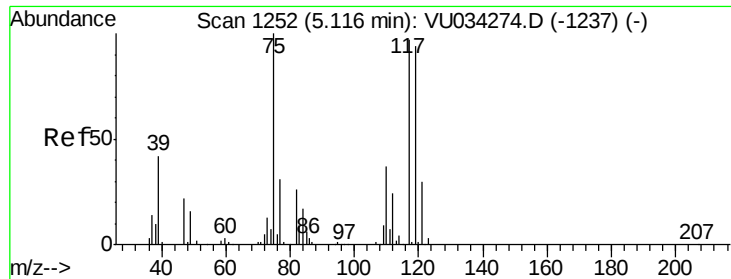


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.046 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034363.D

Acq: 07 Sep 2019 04:32

Instrument :

MSVOA_U

ClientSampleId :

S13-0263

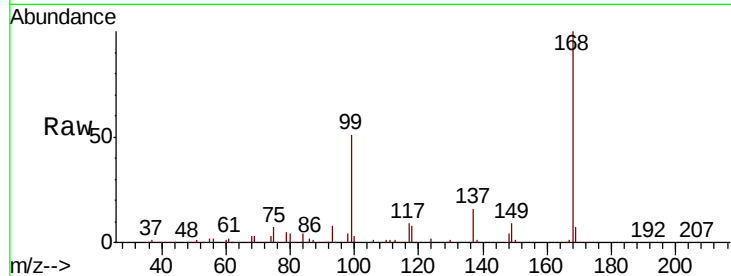
Tgt Ion: 75 Resp: 19372

Ion Ratio Lower Upper

75 100

110 8.4 18.3 54.9#

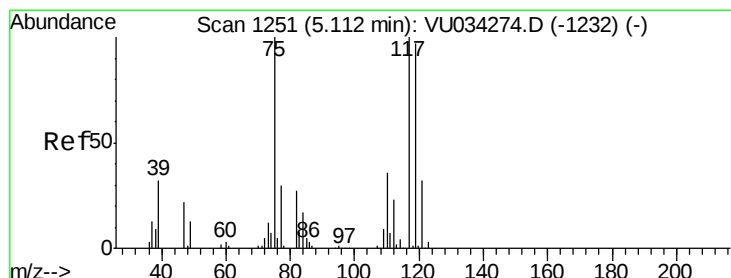
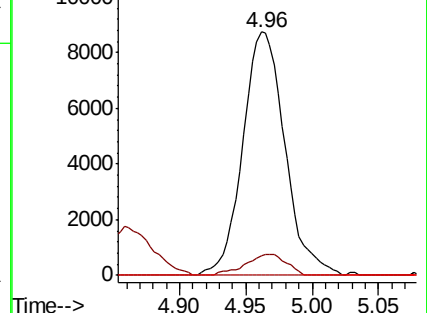
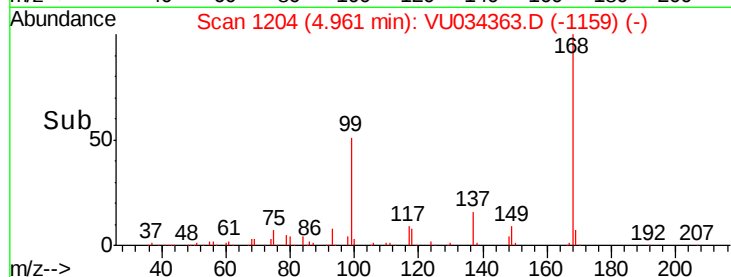
77 0.0 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VU034363.D (-1159) (-)

Ion 109.90 (109.60 to 110.60): VU034363.D (-1159) (-)

Ion 76.90 (76.60 to 77.60): VU034363.D (-1159) (-)



#38

Carbon Tetrachloride

Concen: 4.959 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.15 min

Lab File: VU034363.D

Acq: 07 Sep 2019 04:32

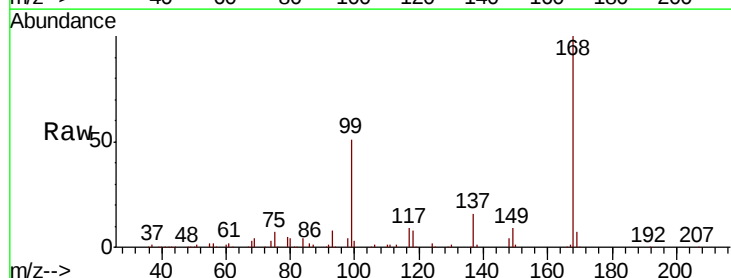
Tgt Ion: 117 Resp: 25350

Ion Ratio Lower Upper

117 100

119 4.5 77.8 116.6#

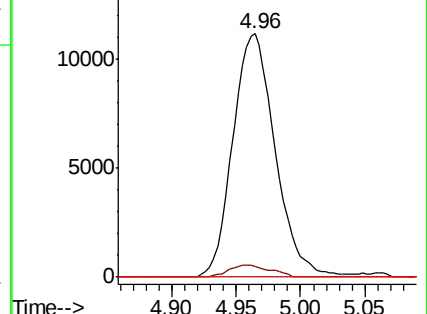
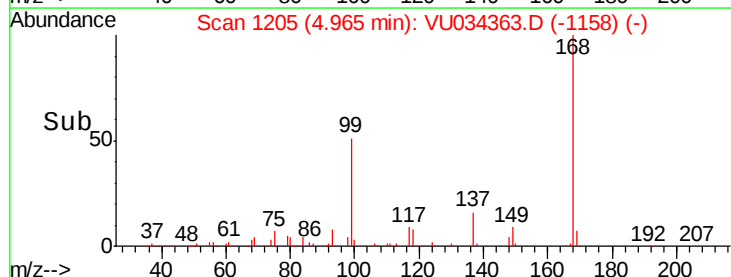
121 0.0 25.2 37.8#

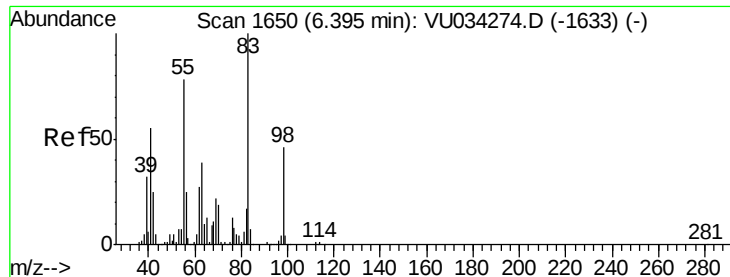


Abundance Ion 116.80 (116.50 to 117.50): VU034363.D (-1158) (-)

Ion 118.80 (118.50 to 119.50): VU034363.D (-1158) (-)

Ion 120.80 (120.50 to 121.50): VU034363.D (-1158) (-)

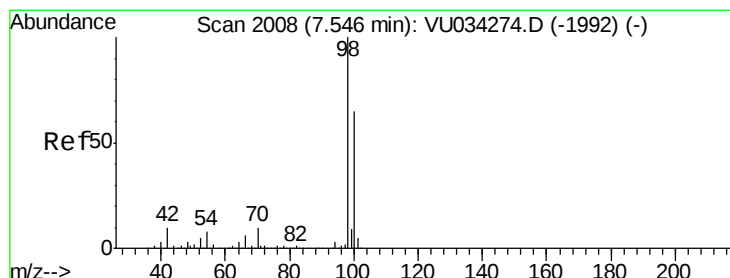
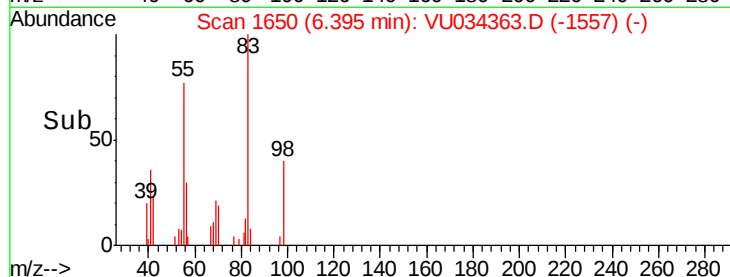
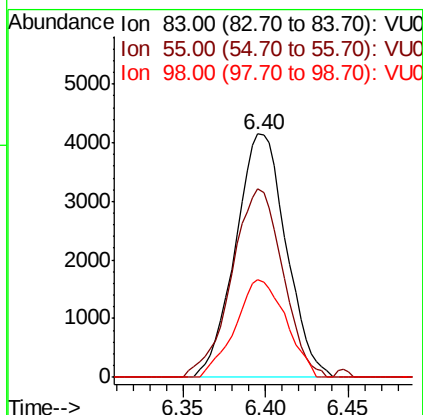
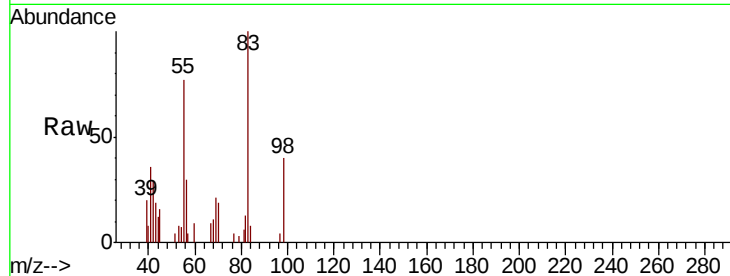




#39
Methylcyclohexane
Concen: 1.719 ug/l
RT: 6.40 min Scan# 1650
Delta R.T. 0.00 min
Lab File: VU034363.D
Acq: 07 Sep 2019 04:32

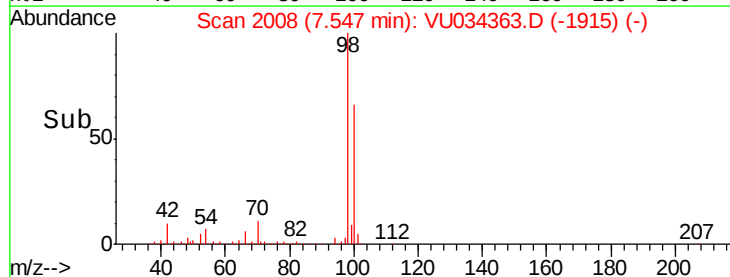
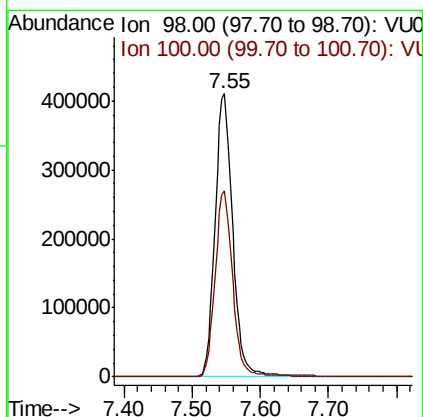
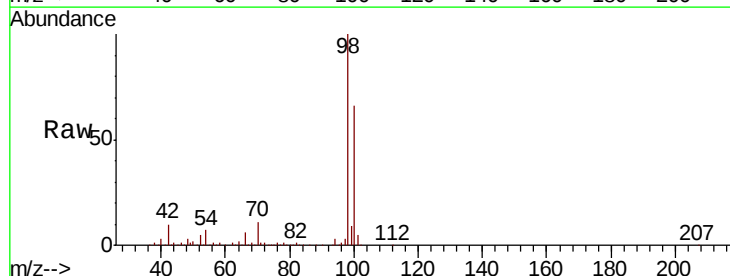
Instrument :
MSVOA_U
ClientSampled :
S13-0263

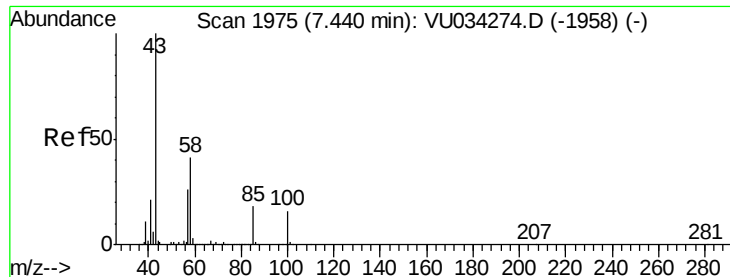
Tgt Ion: 83 Resp: 8800
Ion Ratio Lower Upper
83 100
55 74.9 62.1 93.1
98 39.9 37.0 55.6



#50
Toluene-d8
Concen: 48.284 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034363.D
Acq: 07 Sep 2019 04:32

Tgt Ion: 98 Resp: 745213
Ion Ratio Lower Upper
98 100
100 64.8 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 0.307 ug/l

RT: 7.45 min Scan# 1979

Delta R.T. 0.01 min

Lab File: VU034363.D

Acq: 07 Sep 2019 04:32

Instrument :

MSVOA_U

ClientSampleId :

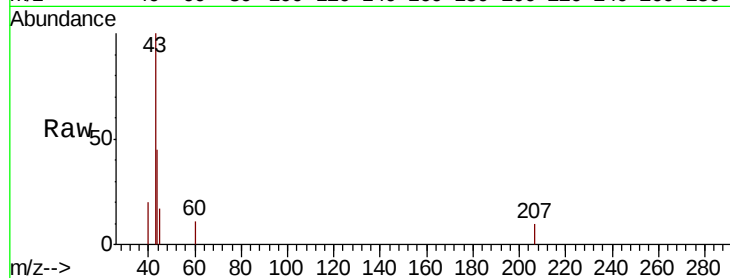
S13-0263

Tgt Ion: 43 Resp: 1874

Ion Ratio Lower Upper

43 100

58 0.0 33.0 49.4#



Abundance Ion 43.00 (42.70 to 43.70): VU034274.D (-1958) (-)

Ion 58.00 (57.70 to 58.70): VU034274.D (-1958) (-)

7.45

1200

1000

800

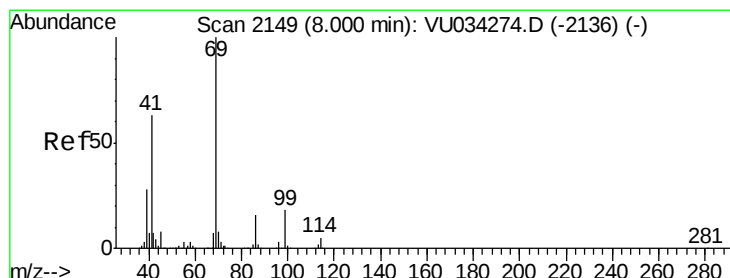
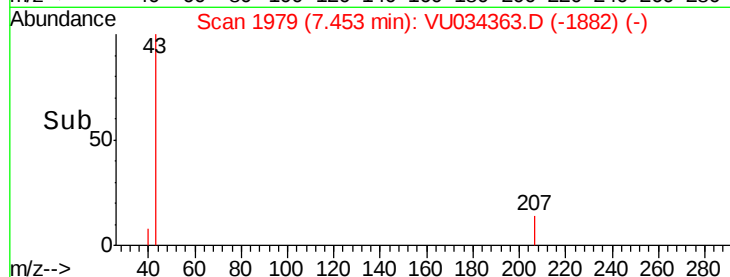
600

400

200

0

Time-->



#56

Ethyl methacrylate

Concen: 3.079 ug/l

RT: 7.92 min Scan# 2124

Delta R.T. -0.08 min

Lab File: VU034363.D

Acq: 07 Sep 2019 04:32

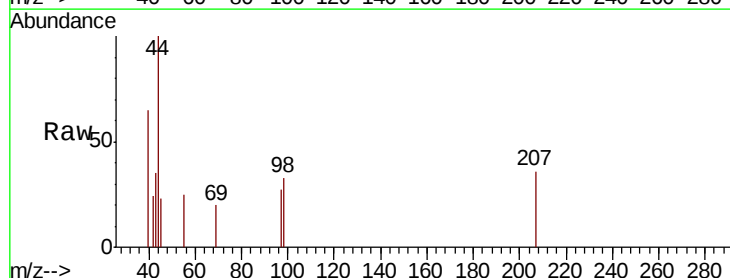
Tgt Ion: 69 Resp: 19

Ion Ratio Lower Upper

69 100

41 0.0 49.5 74.3#

39 0.0 22.5 33.7#



Abundance Ion 69.00 (68.70 to 69.70): VU034274.D (-2136) (-)

Ion 41.00 (40.70 to 41.70): VU034274.D (-2136) (-)

Ion 39.00 (38.70 to 39.70): VU034274.D (-2136) (-)

200

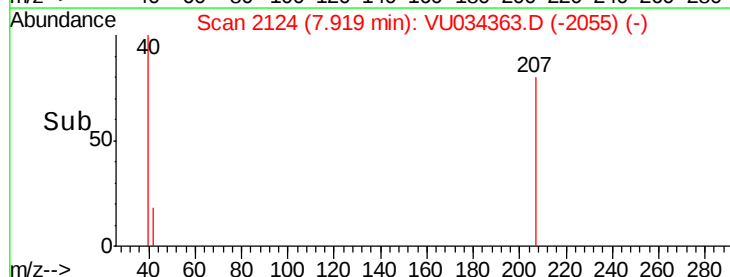
150

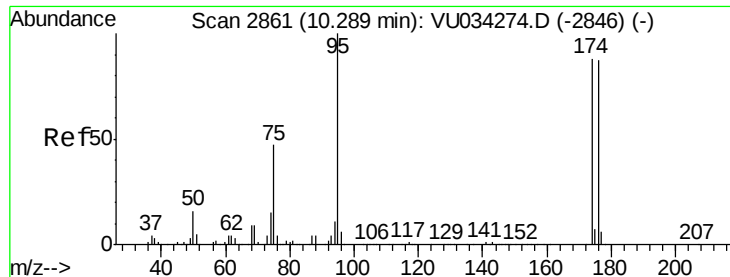
100

50

0

Time-->





#62

4-Bromofluorobenzene

Concen: 45.595 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VU034363.D

Acq: 07 Sep 2019 04:32

Instrument :

MSVOA_U

ClientSampleId :

S13-0263

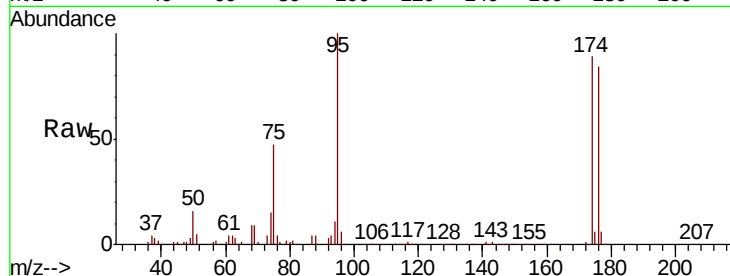
Tgt Ion: 95 Resp: 271699

Ion Ratio Lower Upper

95 100

174 89.1 0.0 175.2

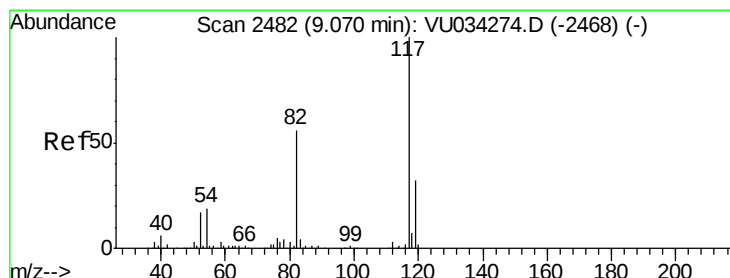
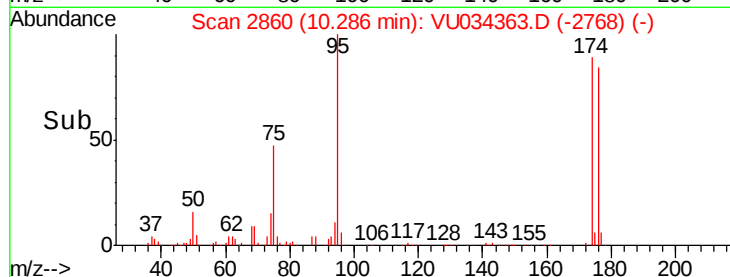
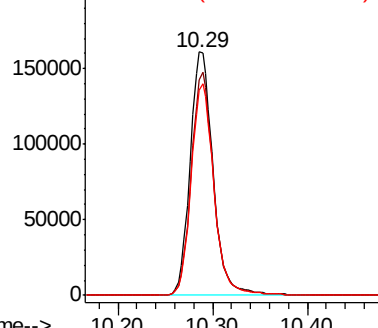
176 86.3 0.0 168.0



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2482

Delta R.T. 0.00 min

Lab File: VU034363.D

Acq: 07 Sep 2019 04:32

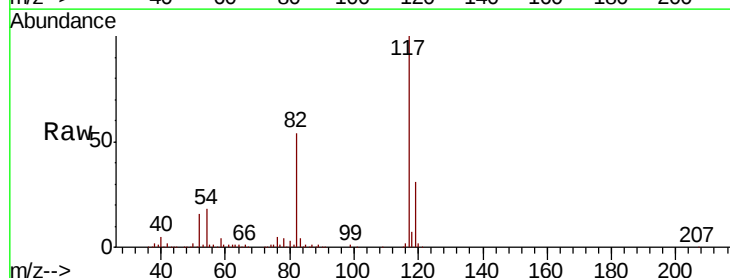
Tgt Ion: 117 Resp: 439082

Ion Ratio Lower Upper

117 100

82 53.7 44.6 67.0

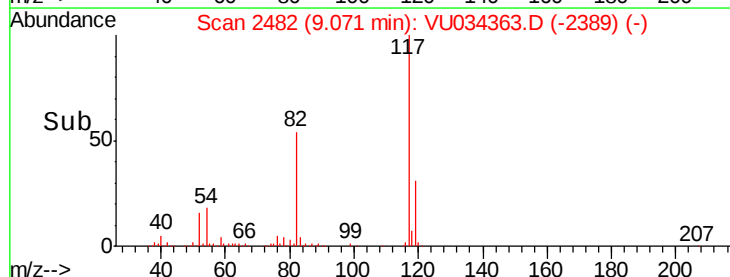
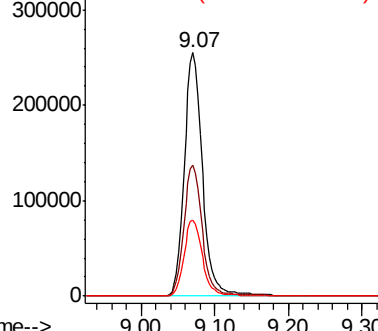
119 31.5 25.9 38.9

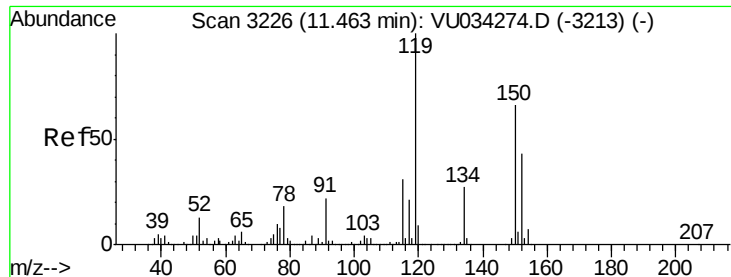


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VU0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.46 min Scan# 3226

Delta R.T. 0.00 min

Lab File: VU034363.D

Acq: 07 Sep 2019 04:32

Instrument :

MSVOA_U

ClientSampleId :

S13-0263

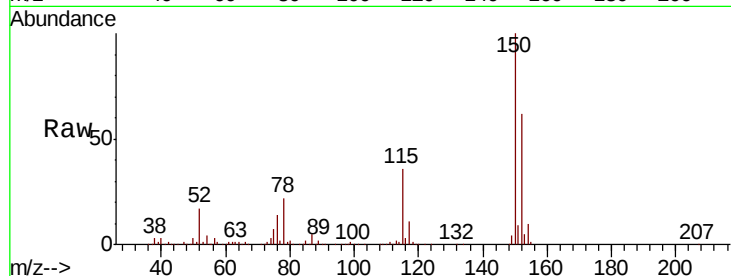
Tgt Ion:152 Resp: 267654

Ion Ratio Lower Upper

152 100

115 56.7 39.1 117.3

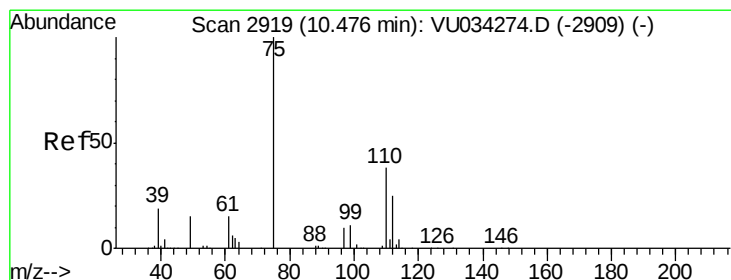
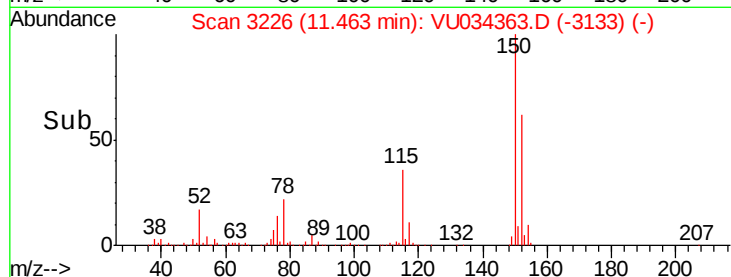
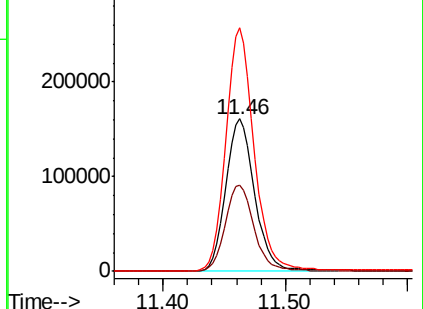
150 157.0 0.0 345.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 21.695 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034363.D

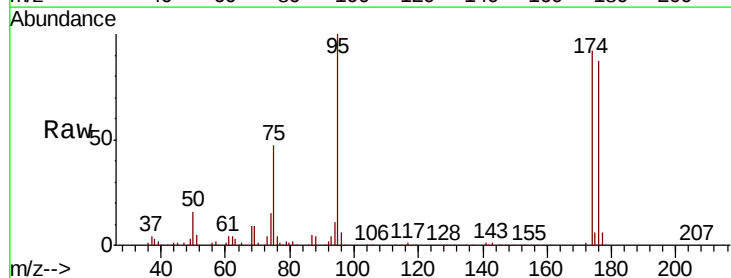
Acq: 07 Sep 2019 04:32

Tgt Ion: 75 Resp: 126751

Ion Ratio Lower Upper

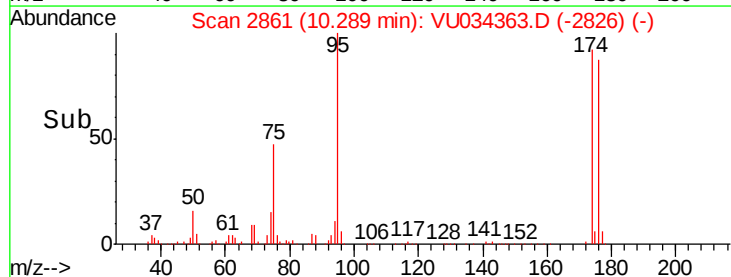
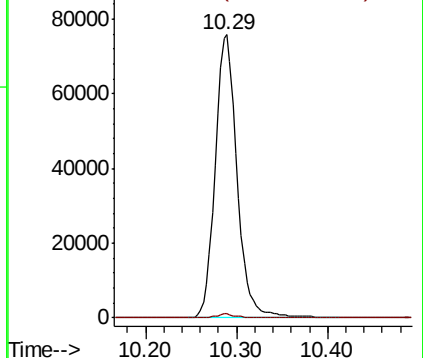
75 100

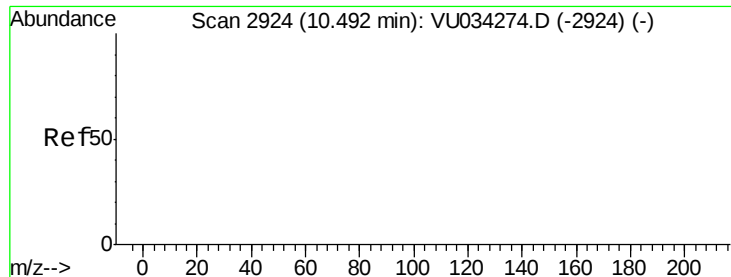
77 1.2 20.8 62.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0





#81

trans-1,4-Dichloro-2-butene

Concen: 72.959 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.20 min

Lab File: VU034363.D

Acq: 07 Sep 2019 04:32

Instrument :

MSVOA_U

ClientSampleId :

S13-0263

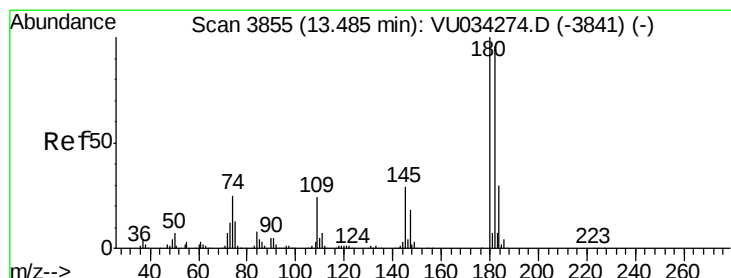
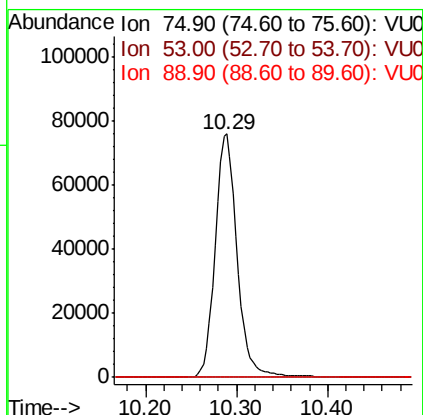
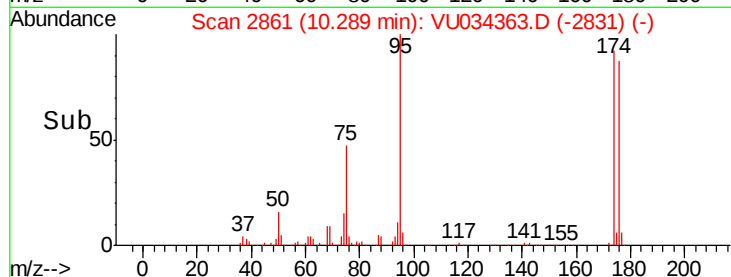
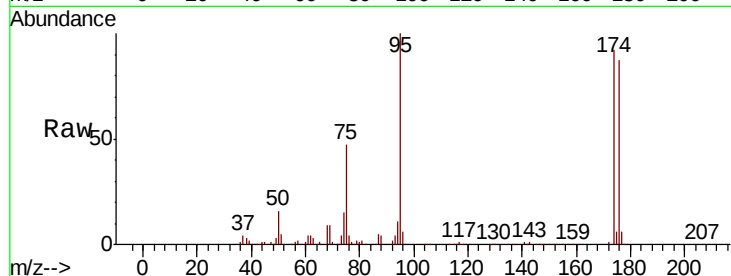
Tgt Ion: 75 Resp: 126751

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0



#93

1,2,4-Trichlorobenzene

Concen: 3.490 ug/l

RT: 13.49 min Scan# 3857

Delta R.T. 0.01 min

Lab File: VU034363.D

Acq: 07 Sep 2019 04:32

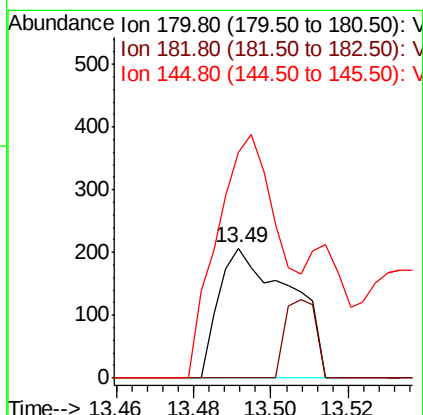
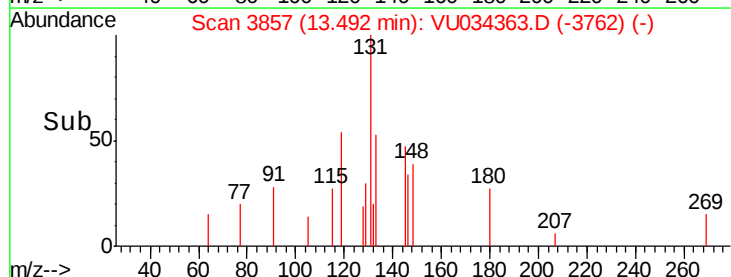
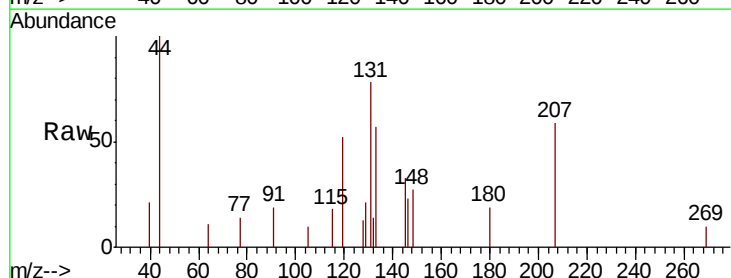
Tgt Ion: 180 Resp: 264

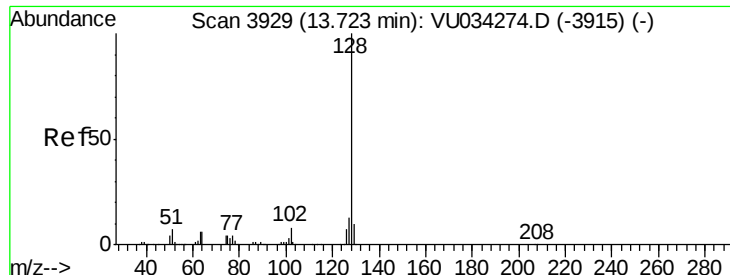
Ion Ratio Lower Upper

180 100

182 26.1 47.9 143.8#

145 167.8 14.4 43.0#

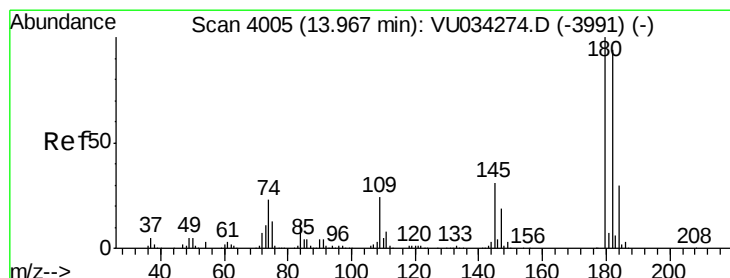
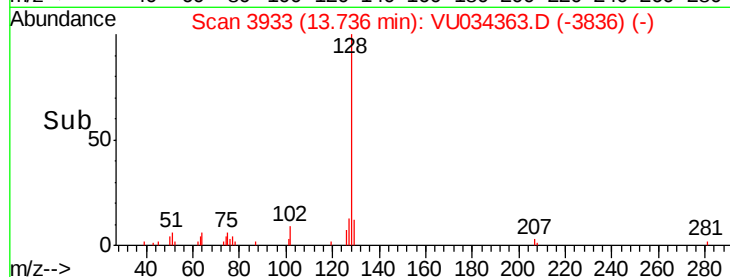
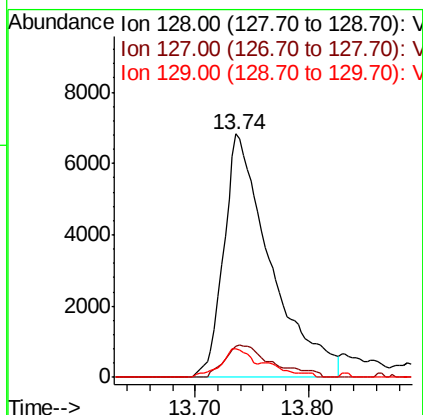
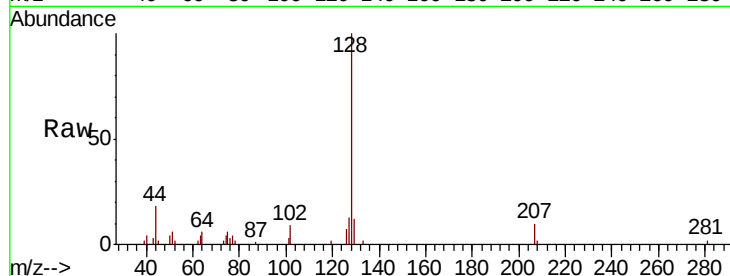




#95
Naphthalene
Concen: 4.982 ug/l
RT: 13.74 min Scan# 3933
Delta R.T. 0.01 min
Lab File: VU034363.D
Acq: 07 Sep 2019 04:32

Instrument :
MSVOA_U
ClientSampleId :
S13-0263

Tgt Ion:128 Resp: 19679
Ion Ratio Lower Upper
128 100
127 13.4 10.6 15.8
129 7.6 8.4 12.6#



#96
1,2,3-Trichlorobenzene
Concen: 2.675 ug/l
RT: 13.98 min Scan# 4008
Delta R.T. 0.01 min
Lab File: VU034363.D
Acq: 07 Sep 2019 04:32

Tgt Ion:180 Resp: 234
Ion Ratio Lower Upper
180 100
182 82.5 48.4 145.0
145 0.0 15.4 46.4#

