

Data File : VU034279.D
Acq On : 05 Sep 2019 13:02
Operator : JC/SP
Sample : K4698-21
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
TB-01-090419

Quant Time: Sep 06 07:32:35 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	430662	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	681430	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	652930	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	328925	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.29	65	251074	38.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	77.06%	
35) Dibromofluoromethane	4.86	113	218907	34.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	69.04%	
50) Toluene-d8	7.55	98	852130	35.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	71.54%	
62) 4-Bromofluorobenzene	10.29	95	301037	32.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	65.46%	

Target Compounds

					Qvalue	
5) Bromomethane	1.63	94	1102	Below Cal		96
6) Chloroethane	1.69	64	189	Below Cal	#	43
10) Methyl Iodide	2.40	142	354	3.918	ug/l #	50
11) Tert butyl alcohol	2.81	59	287	0.208	ug/l #	73
13) Acrolein	2.19	56	382	0.330	ug/l	92
16) Acetone	2.32	43	926	0.275	ug/l	91
20) Methylene Chloride	2.69	84	718	Below Cal	#	81
31) Cyclohexane	4.96	56	7230	0.947	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	29852	4.039	ug/l #	49
38) Carbon Tetrachloride	4.96	117	38258	4.848	ug/l #	16
49) 1,4-Dioxane	6.61	88	62	0.439	ug/l #	1
51) 4-Methyl-2-Pentanone	7.45	43	2888	0.306	ug/l	92
56) Ethyl methacrylate	8.02	69	95	3.085	ug/l #	28
76) 1,2,3-Trichloropropane	10.29	75	141261	19.675	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	141261	66.165	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.51	180	657	3.530	ug/l #	22
94) Hexachlorobutadiene	13.68	225	1048	0.279	ug/l #	63
95) Naphthalene	13.76	128	5462	4.195	ug/l #	92
96) 1,2,3-Trichlorobenzene	13.99	180	2019	2.893	ug/l #	70

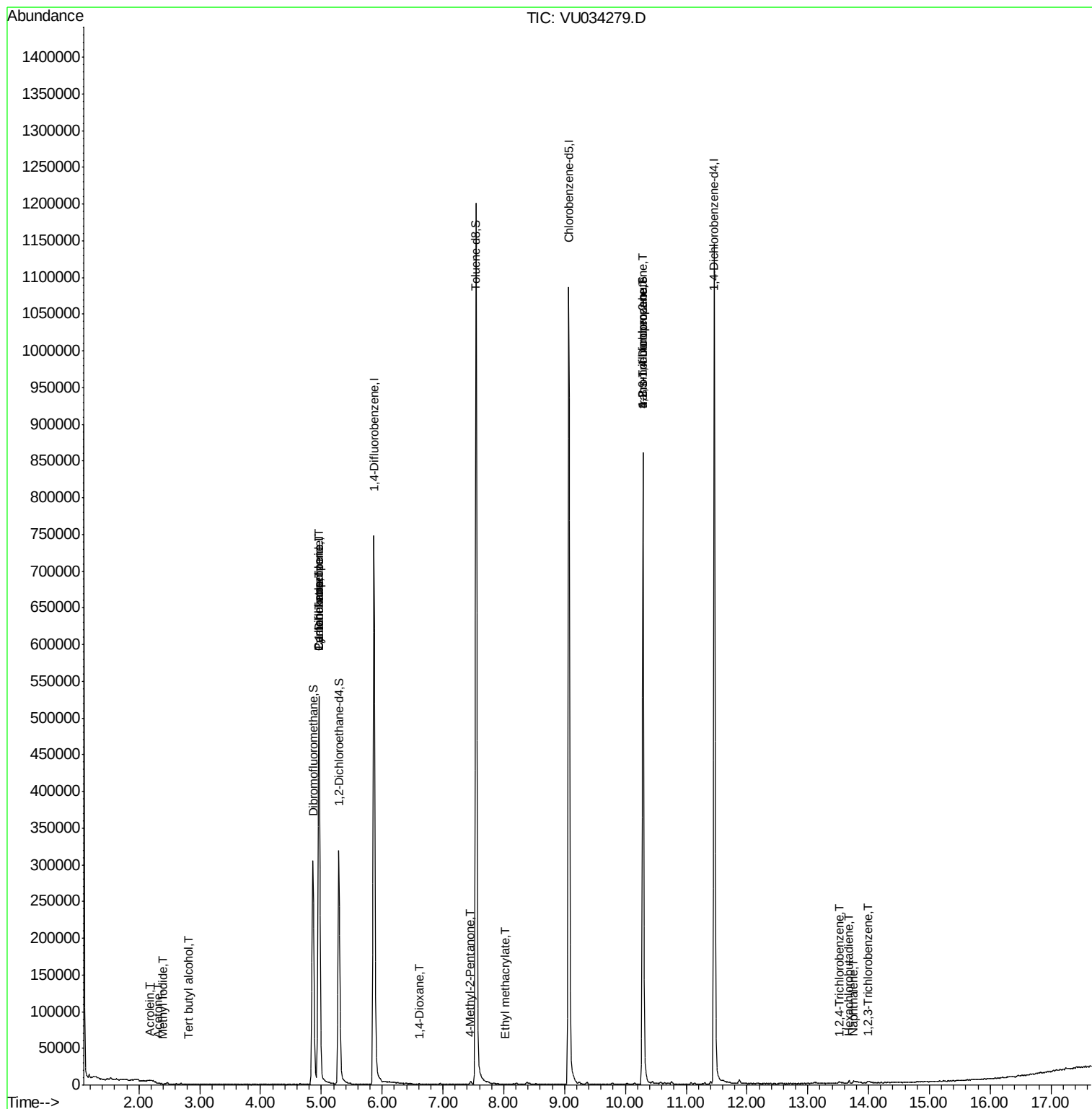
(#) = qualifier out of range (m) = manual integration (+) = signals summed

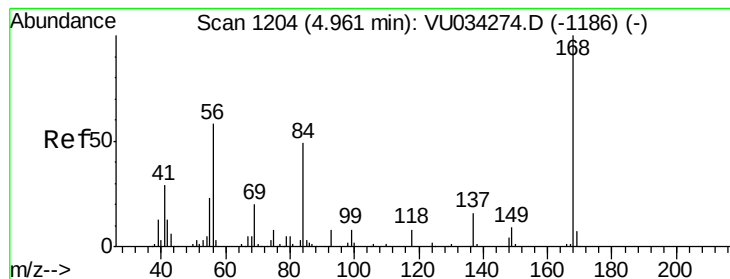
Data File : VU034279.D

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.00 min

Lab File: VU034279.D

Acq: 05 Sep 2019 13:02

Instrument :

MSVOA_U

ClientSampleId :

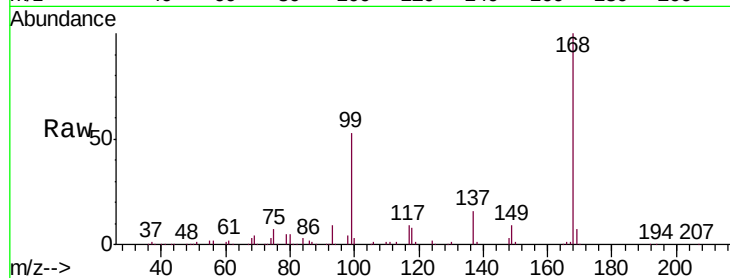
TB-01-090419

Tgt Ion:168 Resp: 430662

Ion Ratio Lower Upper

168 100

99 52.9 41.6 62.4



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

Ion 98.90 (98.60 to 99.60): VU034274.D

4.96

200000

150000

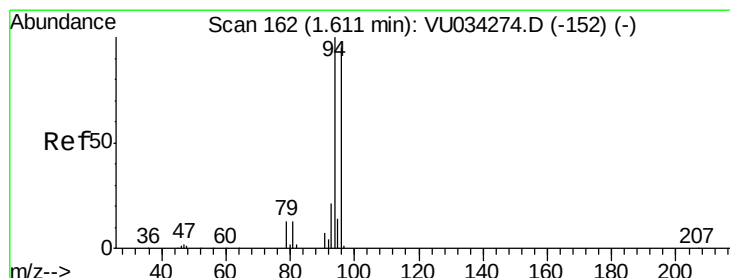
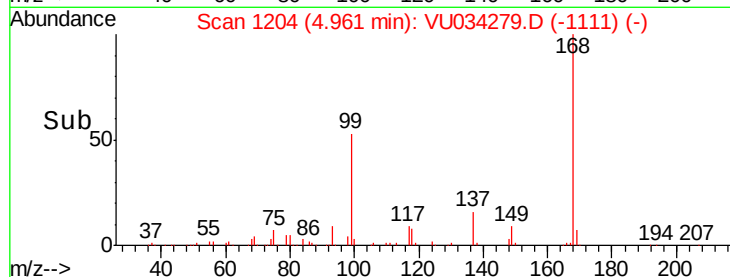
100000

50000

0

4.90 5.00 5.10

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 168

Delta R.T. 0.02 min

Lab File: VU034279.D

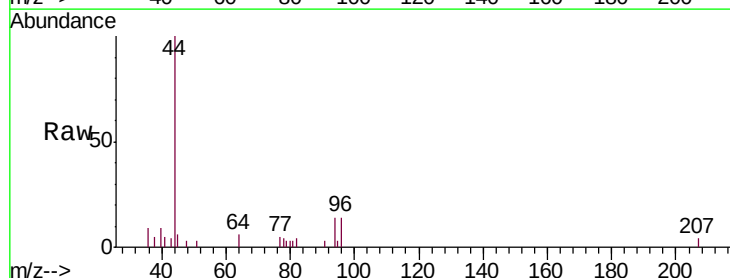
Acq: 05 Sep 2019 13:02

Tgt Ion: 94 Resp: 1102

Ion Ratio Lower Upper

94 100

96 98.8 75.7 113.5



Abundance Ion 93.90 (93.60 to 94.60): VU034279.D

Ion 95.90 (95.60 to 96.60): VU034279.D

1.63

600

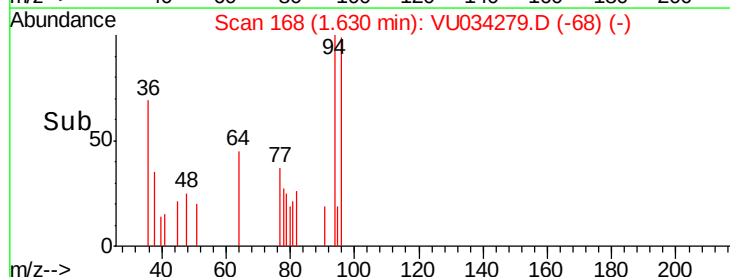
400

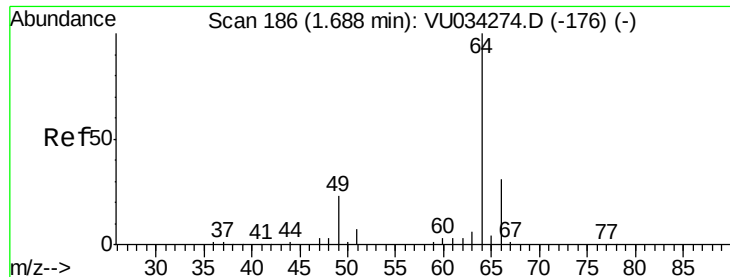
200

0

1.60 1.65

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU034279.D

Acq: 05 Sep 2019 13:02

Instrument :

MSVOA_U

ClientSampleId :

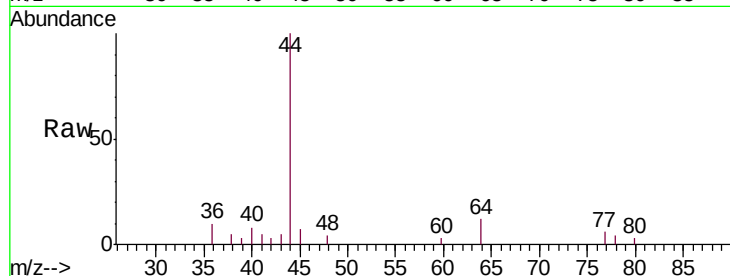
TB-01-090419

Tgt Ion: 64 Resp: 189

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#

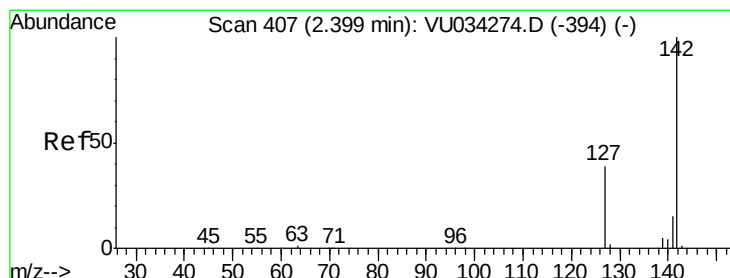
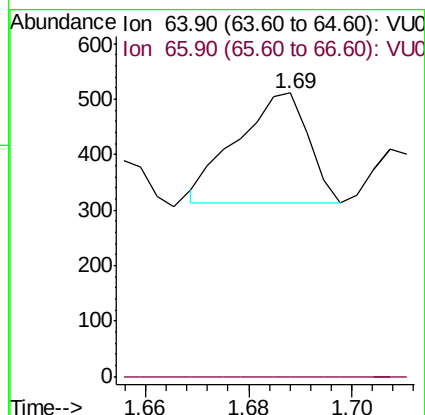
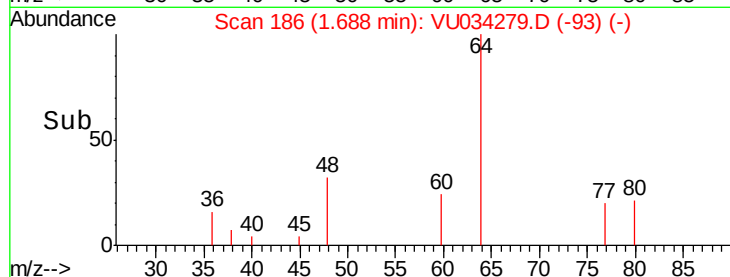


Abundance Ion 63.90 (63.60 to 64.60): VU034279.D (-176) (-)

Ion 65.90 (65.60 to 66.60): VU034279.D (-176) (-)

1.69

Time-->



#10

Methyl Iodide

Concen: 3.918 ug/l

RT: 2.40 min Scan# 408

Delta R.T. 0.00 min

Lab File: VU034279.D

Acq: 05 Sep 2019 13:02

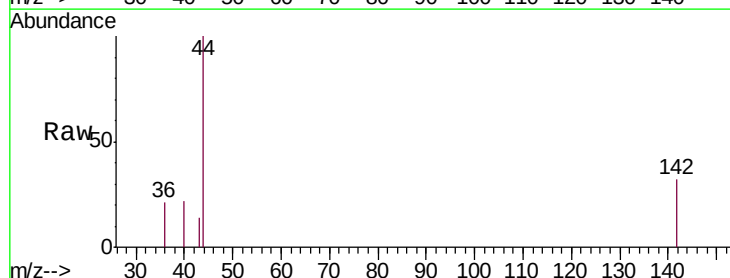
Tgt Ion: 142 Resp: 354

Ion Ratio Lower Upper

142 100

127 5.9 32.1 48.1#

141 0.0 11.5 17.3#



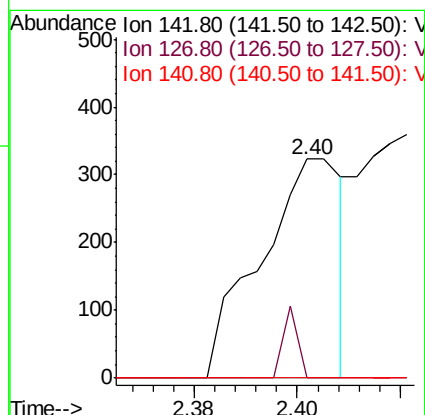
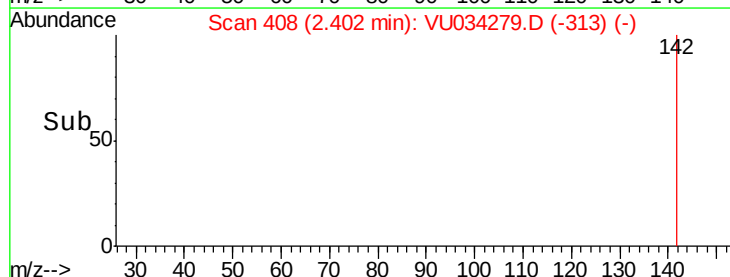
Abundance Ion 141.80 (141.50 to 142.50): VU034279.D (-394) (-)

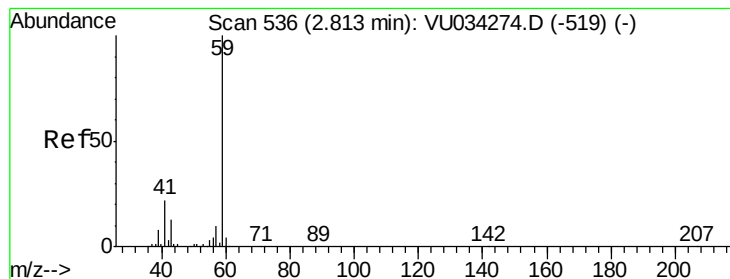
Ion 126.80 (126.50 to 127.50): VU034279.D (-394) (-)

Ion 140.80 (140.50 to 141.50): VU034279.D (-394) (-)

2.40

Time-->





#11

Tert butyl alcohol

Concen: 0.208 ug/l

RT: 2.81 min Scan# 536

Delta R.T. -0.00 min

Lab File: VU034279.D

Acq: 05 Sep 2019 13:02

Instrument :

MSVOA_U

ClientSampleId :

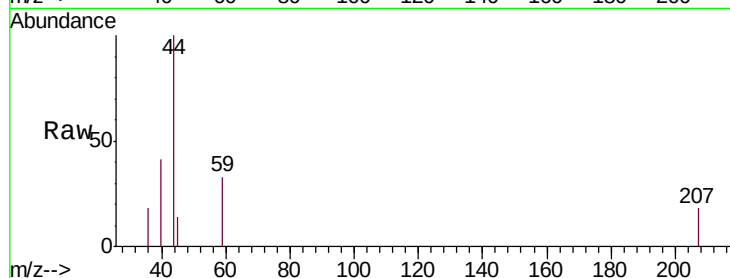
TB-01-090419

Tgt Ion: 59 Resp: 287

Ion Ratio Lower Upper

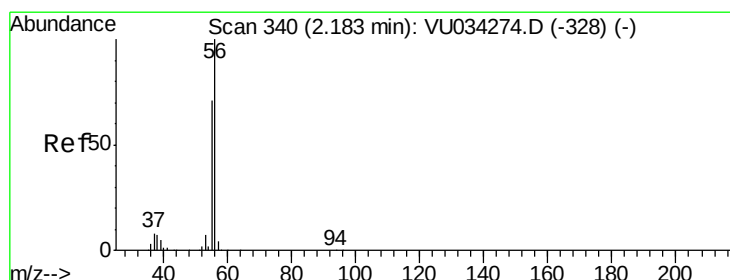
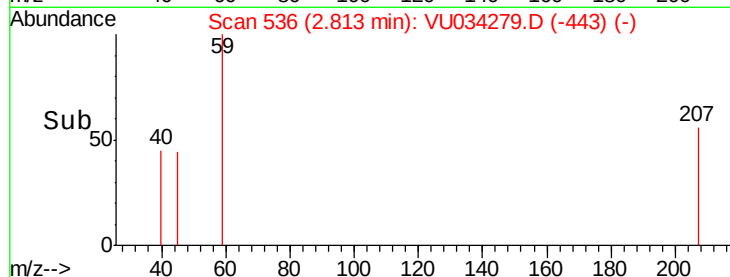
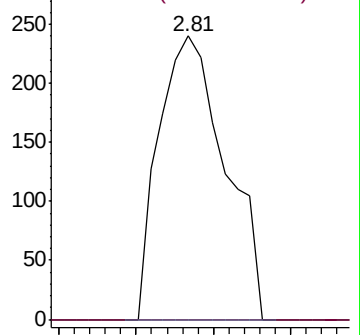
59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VU034279.D

Ion 57.00 (56.70 to 57.70): VU034279.D



#13

Acrolein

Concen: 0.330 ug/l

RT: 2.19 min Scan# 342

Delta R.T. 0.01 min

Lab File: VU034279.D

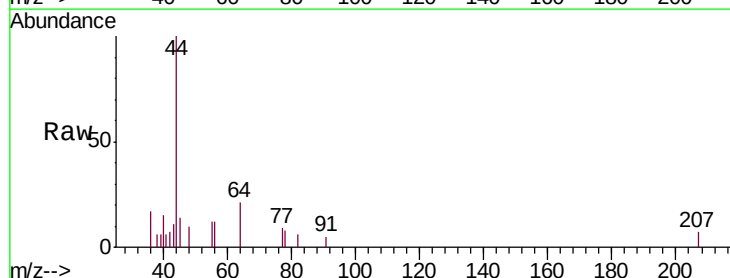
Acq: 05 Sep 2019 13:02

Tgt Ion: 56 Resp: 382

Ion Ratio Lower Upper

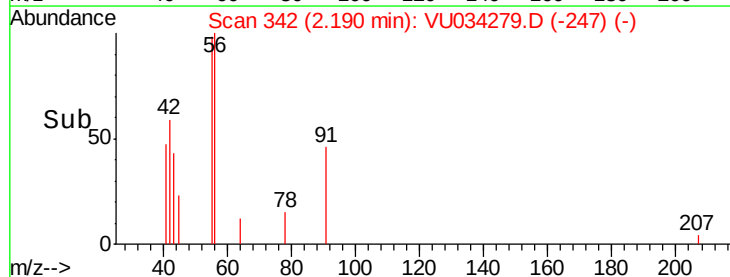
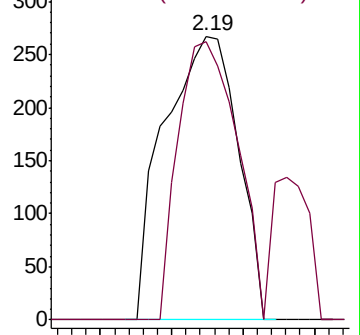
56 100

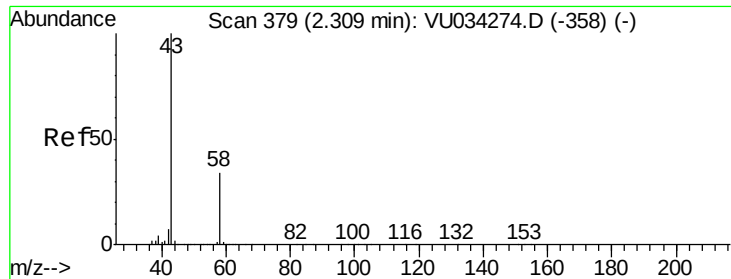
55 78.5 57.4 86.2



Abundance Ion 56.00 (55.70 to 56.70): VU034279.D

Ion 55.00 (54.70 to 55.70): VU034279.D





#16

Acetone

Concen: 0.275 ug/l

RT: 2.32 min Scan# 381

Delta R.T. 0.01 min

Lab File: VU034279.D

Acq: 05 Sep 2019 13:02

Instrument :

MSVOA_U

ClientSampleId :

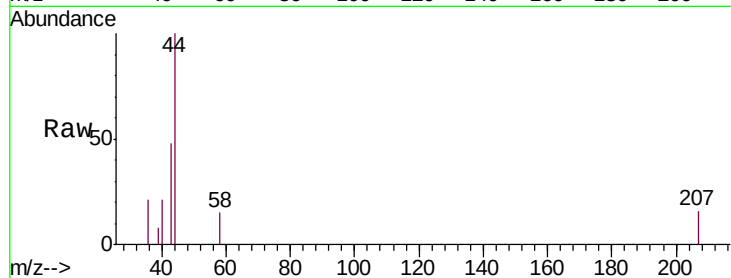
TB-01-090419

Tgt Ion: 43 Resp: 926

Ion Ratio Lower Upper

43 100

58 39.4 27.6 41.4



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

Ion 58.00 (57.70 to 58.70): VU034274.D (-358) (-)

2.32

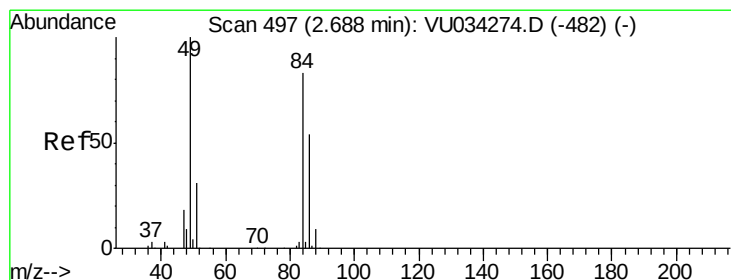
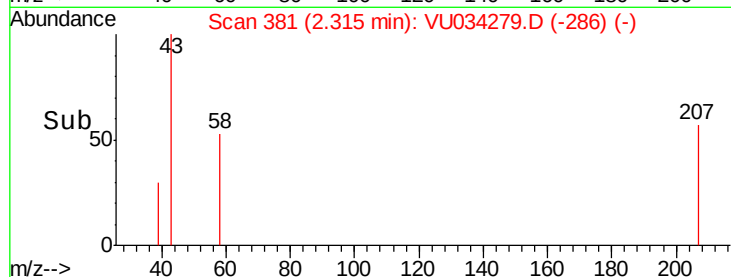
600

400

200

0

Time--> 2.25 2.30 2.35



#20

Methylene Chloride

Concen: Below Cal

RT: 2.69 min Scan# 497

Delta R.T. 0.00 min

Lab File: VU034279.D

Acq: 05 Sep 2019 13:02

Tgt Ion: 84 Resp: 718

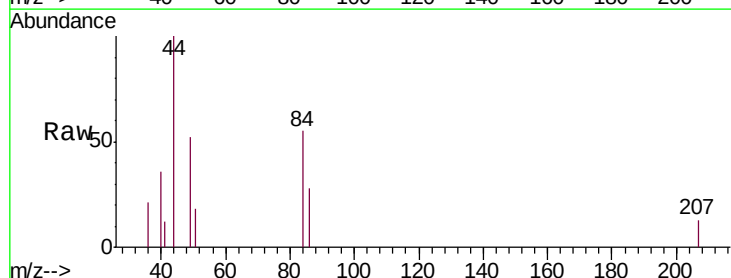
Ion Ratio Lower Upper

84 100

49 94.1 96.0 144.0#

51 33.6 30.0 45.0

86 50.5 51.4 77.0#



Abundance Ion 83.90 (83.60 to 84.60): VU034279.D (-404) (-)

Ion 48.90 (48.60 to 49.60): VU034279.D (-404) (-)

Ion 50.90 (50.60 to 51.60): VU034279.D (-404) (-)

Ion 85.90 (85.60 to 86.60): VU034279.D (-404) (-)

2.69

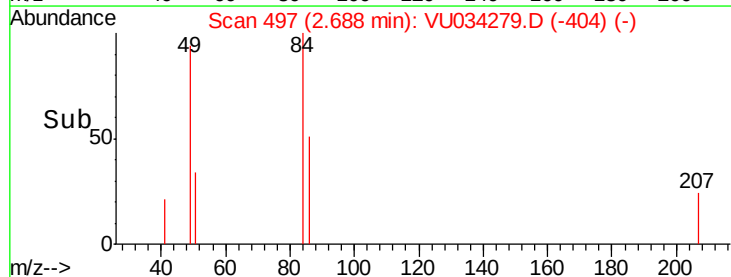
600

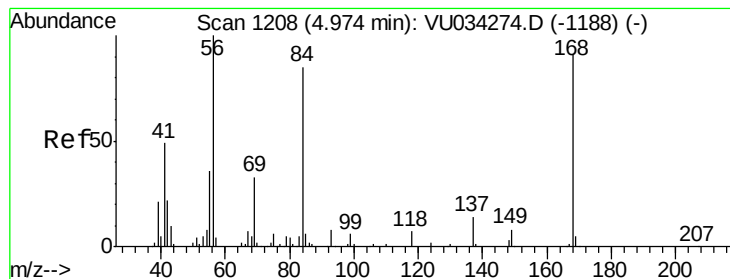
400

200

0

Time--> 2.65 2.70





#31

Cyclohexane

Concen: 0.947 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU034279.D

Acq: 05 Sep 2019 13:02

Instrument :

MSVOA_U

ClientSampleId :

TB-01-090419

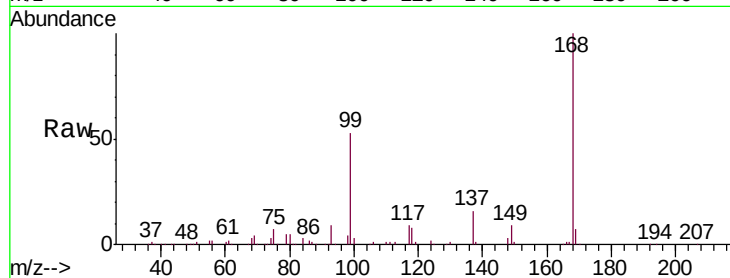
Tgt Ion: 56 Resp: 7230

Ion Ratio Lower Upper

56 100

69 217.5 26.7 40.1#

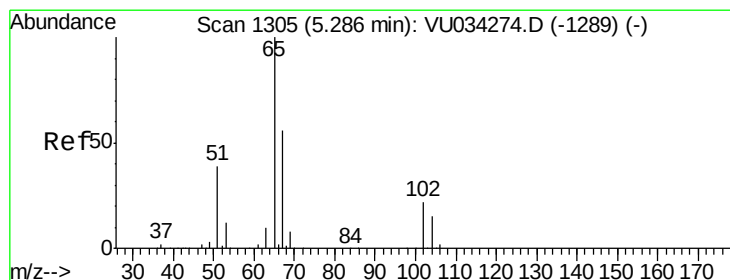
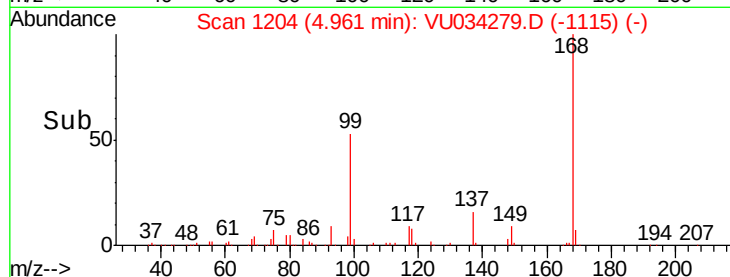
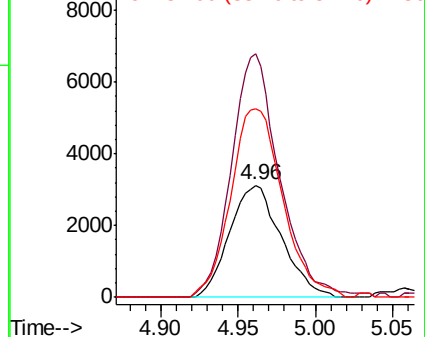
84 168.2 68.2 102.4#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0



#33

1,2-Dichloroethane-d4

Concen: 38.532 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034279.D

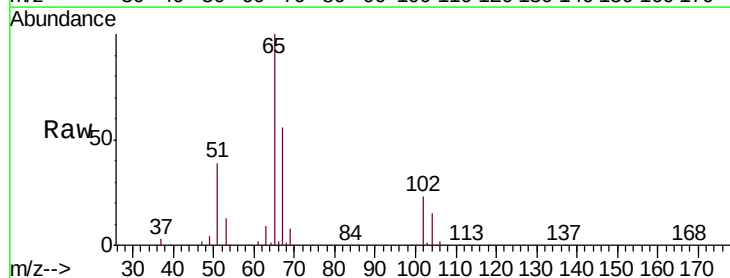
Acq: 05 Sep 2019 13:02

Tgt Ion: 65 Resp: 251074

Ion Ratio Lower Upper

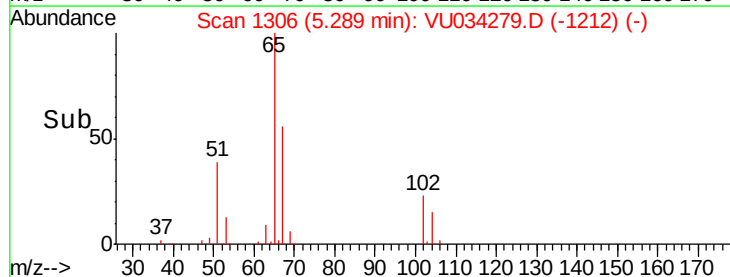
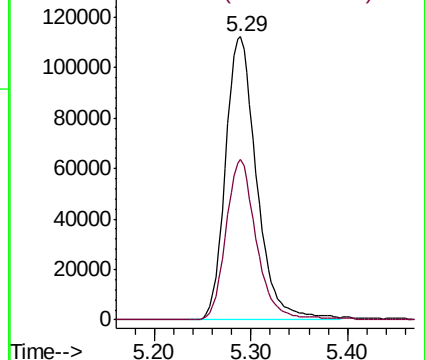
65 100

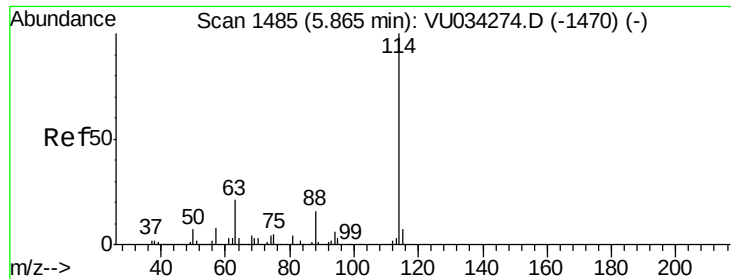
67 55.6 0.0 112.4



Abundance Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.87 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VU034279.D

Acq: 05 Sep 2019 13:02

Instrument :

MSVOA_U

ClientSampleId :

TB-01-090419

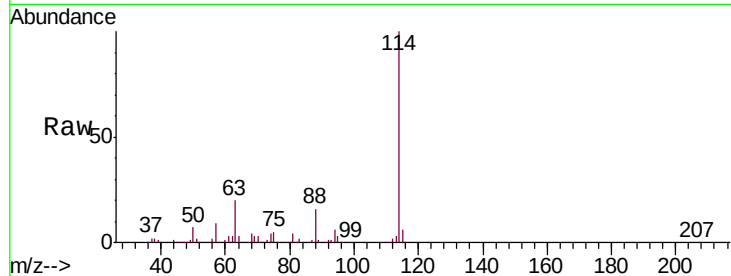
Tgt Ion:114 Resp: 681430

Ion Ratio Lower Upper

114 100

63 20.3 0.0 42.4

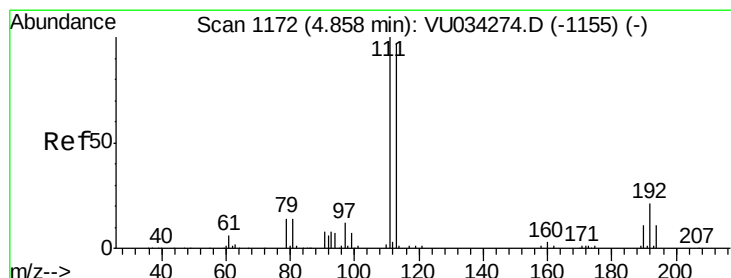
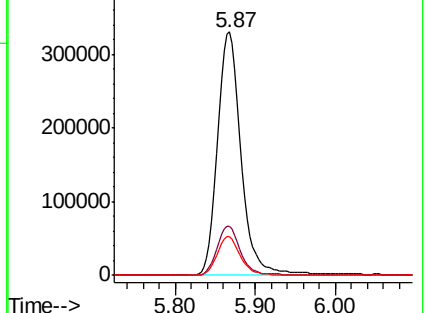
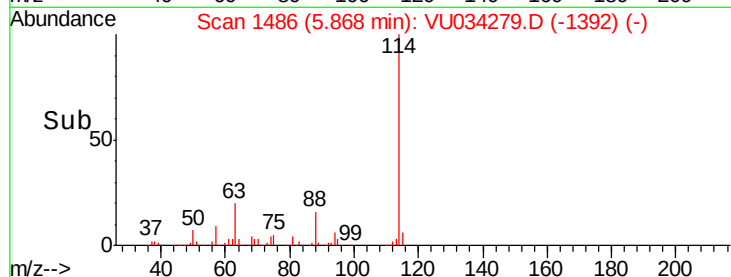
88 15.8 0.0 32.4



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: 34.524 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034279.D

Acq: 05 Sep 2019 13:02

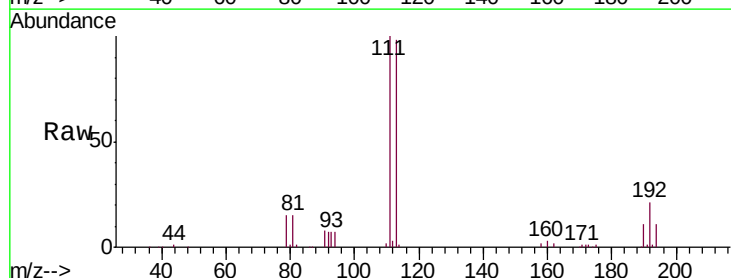
Tgt Ion:113 Resp: 218907

Ion Ratio Lower Upper

113 100

111 102.6 81.5 122.3

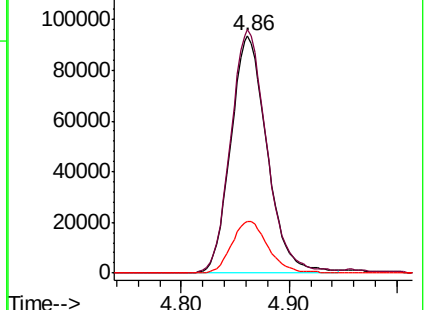
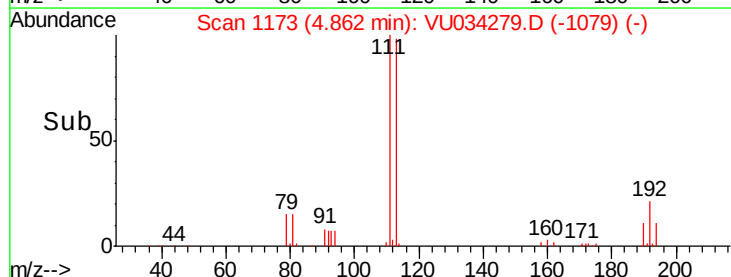
192 22.0 17.8 26.8

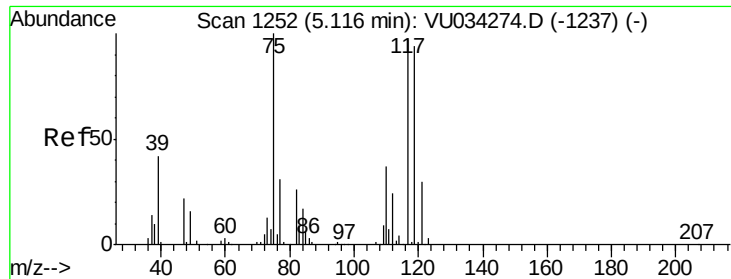


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.039 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034279.D

Acq: 05 Sep 2019 13:02

Instrument :

MSVOA_U

ClientSampleId :

TB-01-090419

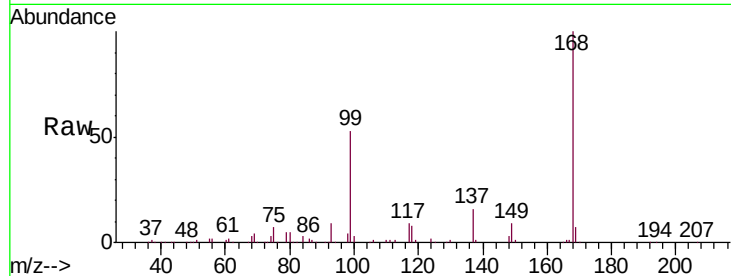
Tgt Ion: 75 Resp: 29852

Ion Ratio Lower Upper

75 100

110 9.1 18.3 54.9#

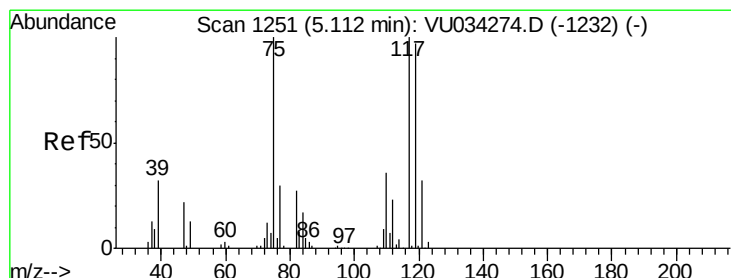
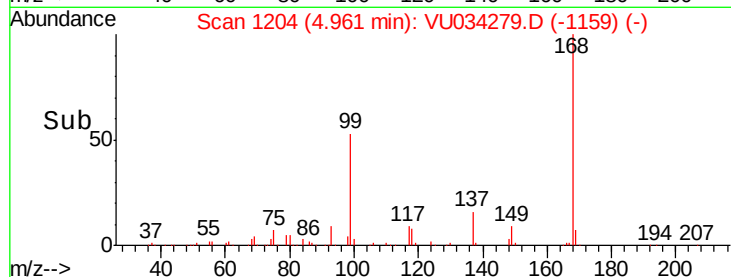
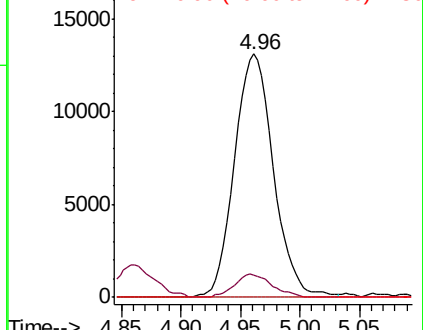
77 0.0 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VU034279.D (-1159) (-)

Ion 109.90 (109.60 to 110.60): VU034279.D (-1159) (-)

Ion 76.90 (76.60 to 77.60): VU034279.D (-1159) (-)



#38

Carbon Tetrachloride

Concen: 4.848 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034279.D

Acq: 05 Sep 2019 13:02

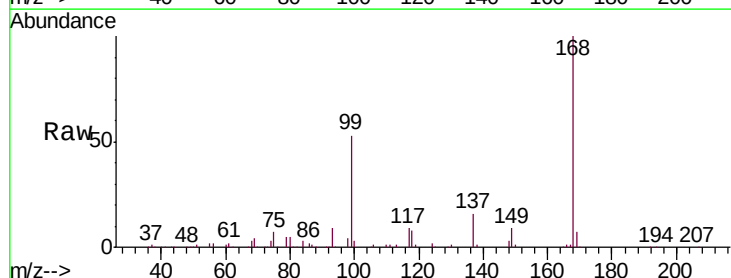
Tgt Ion: 117 Resp: 38258

Ion Ratio Lower Upper

117 100

119 6.4 77.8 116.6#

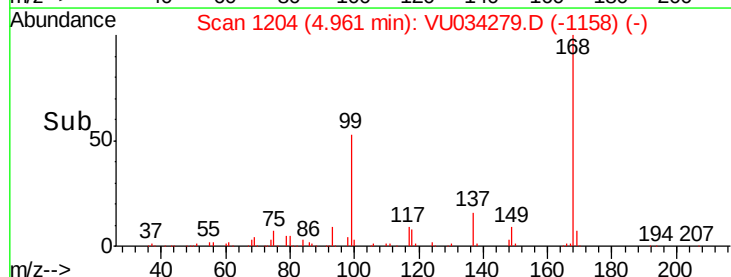
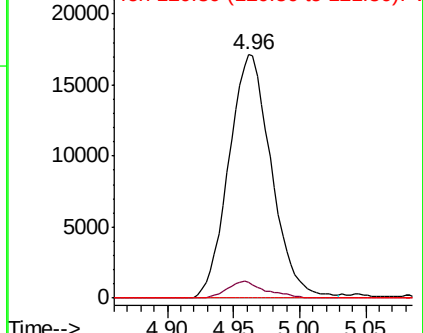
121 0.0 25.2 37.8#

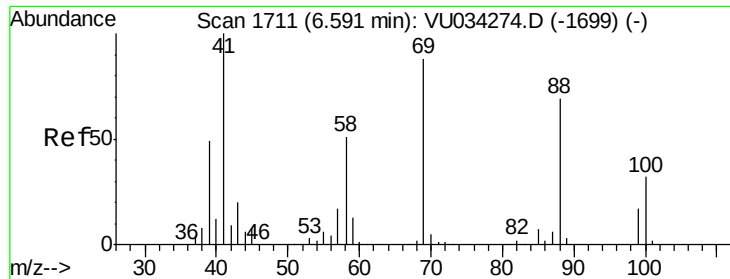


Abundance Ion 116.80 (116.50 to 117.50): VU034279.D (-1158) (-)

Ion 118.80 (118.50 to 119.50): VU034279.D (-1158) (-)

Ion 120.80 (120.50 to 121.50): VU034279.D (-1158) (-)





#49

1,4-Dioxane

Concen: 0.439 ug/l

RT: 6.61 min Scan# 1716

Delta R.T. 0.02 min

Lab File: VU034279.D

Acq: 05 Sep 2019 13:02

Instrument :

MSVOA_U

ClientSampleId :

TB-01-090419

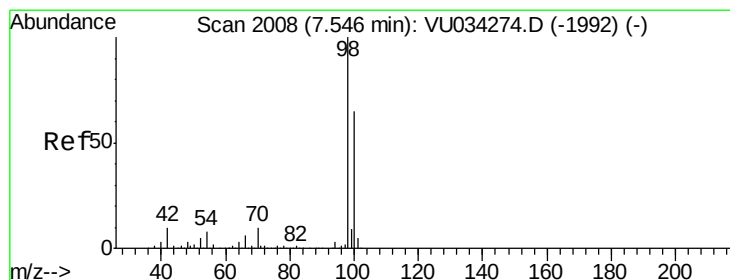
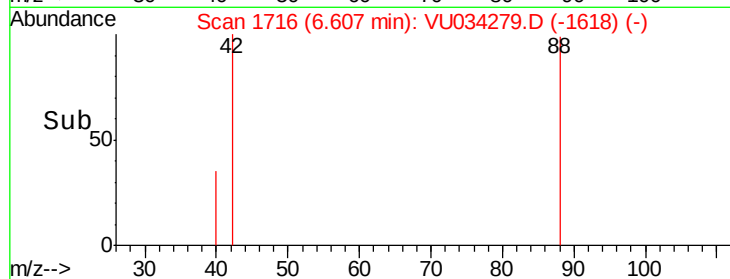
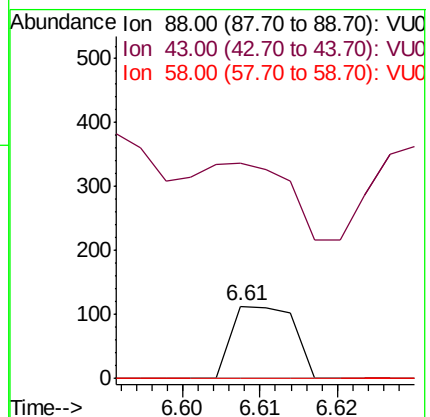
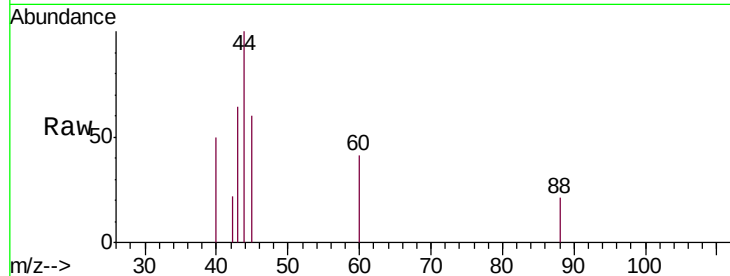
Tgt Ion: 88 Resp: 62

Ion Ratio Lower Upper

88 100

43 280.6 23.8 35.6#

58 0.0 58.4 87.6#



#50

Toluene-d8

Concen: 35.770 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. -0.00 min

Lab File: VU034279.D

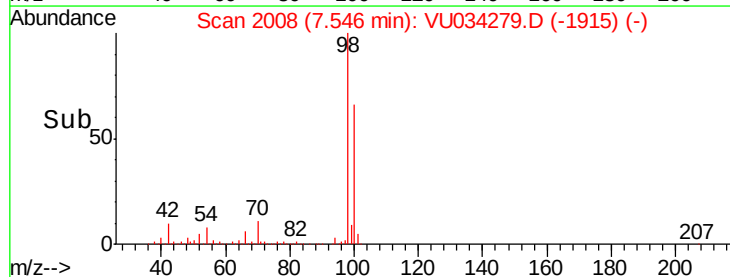
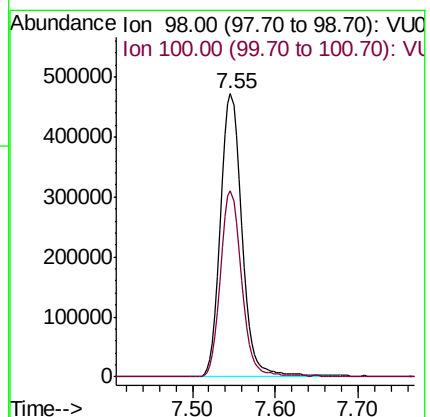
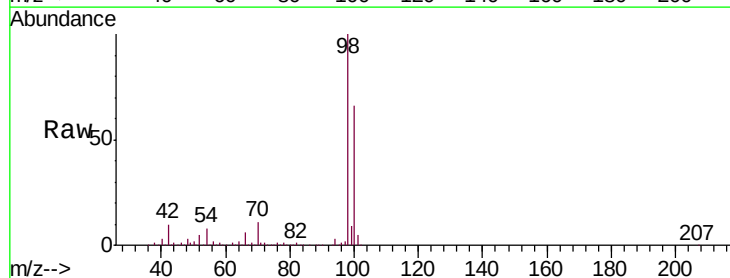
Acq: 05 Sep 2019 13:02

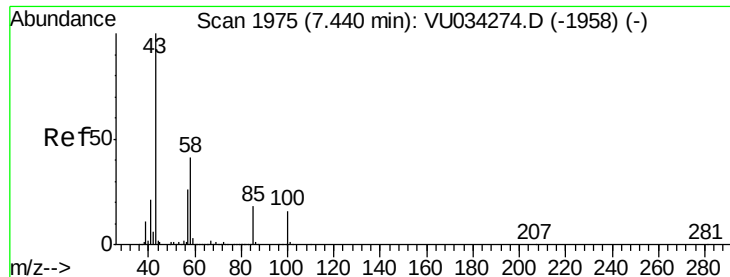
Tgt Ion: 98 Resp: 852130

Ion Ratio Lower Upper

98 100

100 64.4 51.7 77.5

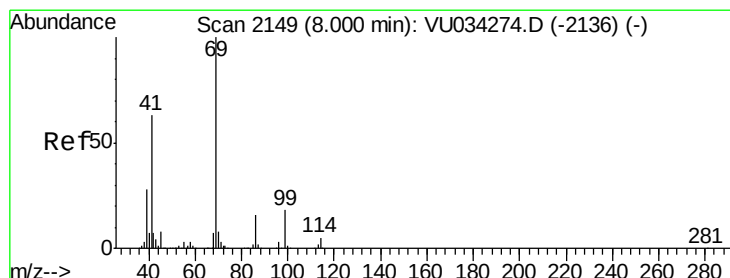
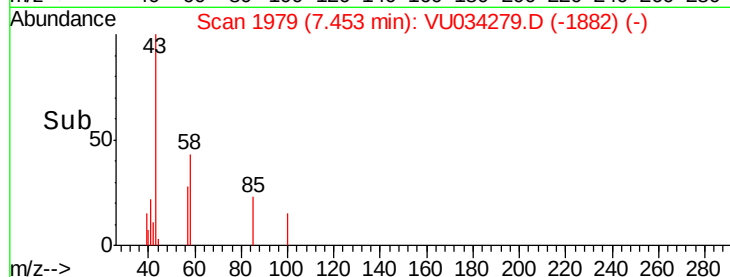
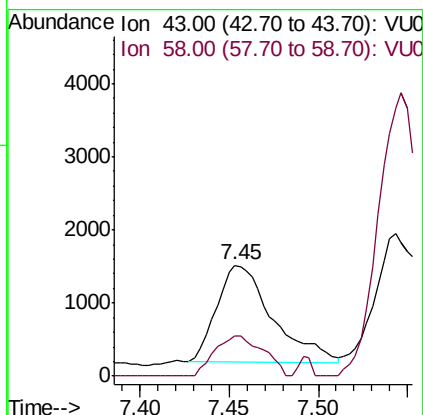
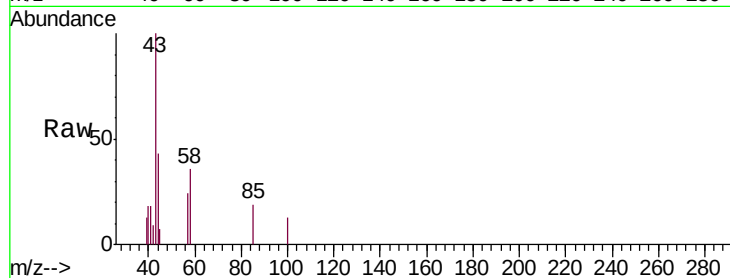




#51
 4-Methyl-2-Pentanone
 Concen: 0.306 ug/l
 RT: 7.45 min Scan# 1979
 Delta R.T. 0.01 min
 Lab File: VU034279.D
 Acq: 05 Sep 2019 13:02

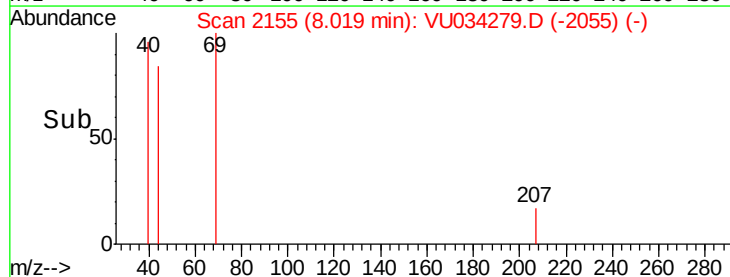
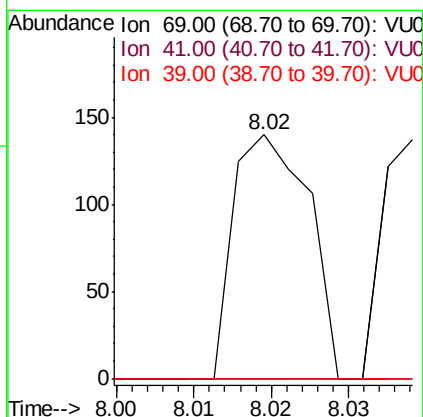
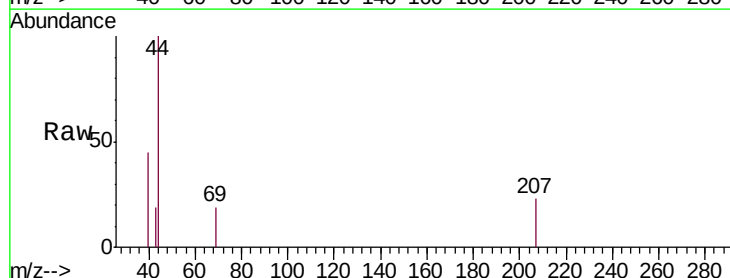
Instrument :
 MSVOA_U
 ClientSampleId :
 TB-01-090419

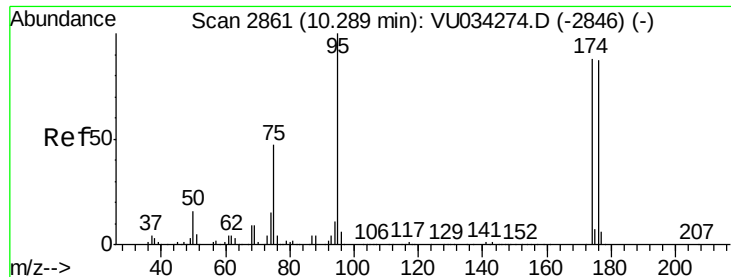
Tgt Ion: 43 Resp: 2888
 Ion Ratio Lower Upper
 43 100
 58 36.1 33.0 49.4



#56
 Ethyl methacrylate
 Concen: 3.085 ug/l
 RT: 8.02 min Scan# 2155
 Delta R.T. 0.02 min
 Lab File: VU034279.D
 Acq: 05 Sep 2019 13:02

Tgt Ion: 69 Resp: 95
 Ion Ratio Lower Upper
 69 100
 41 0.0 49.5 74.3#
 39 0.0 22.5 33.7#

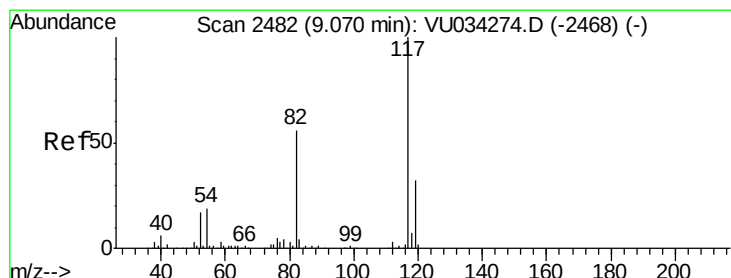
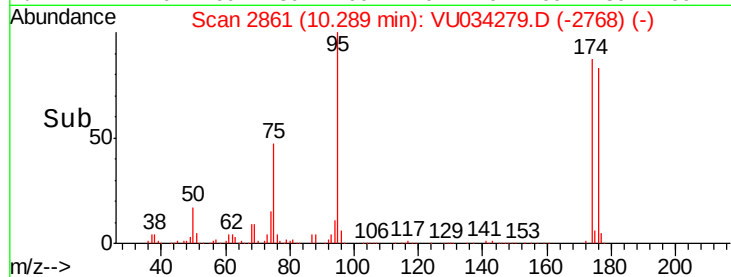
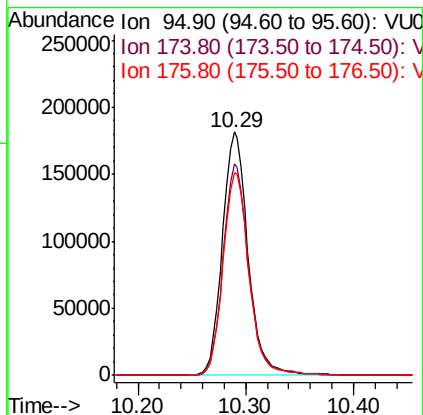
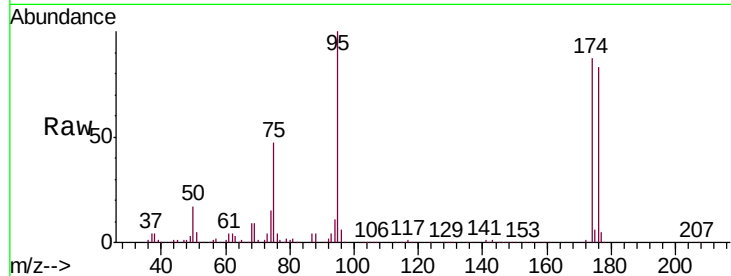




#62
4-Bromofluorobenzene
Concen: 32.730 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.00 min
Lab File: VU034279.D
Acq: 05 Sep 2019 13:02

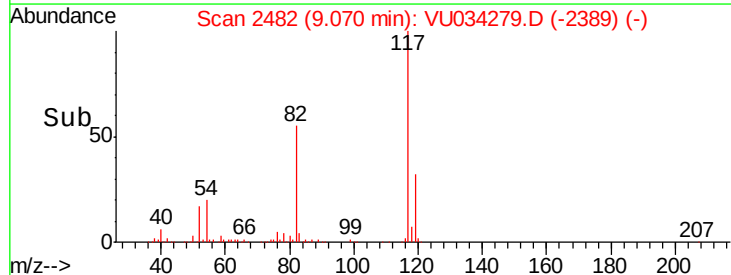
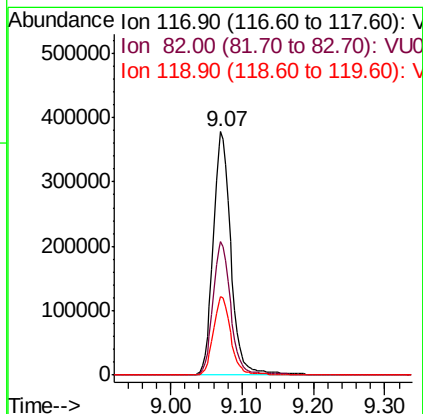
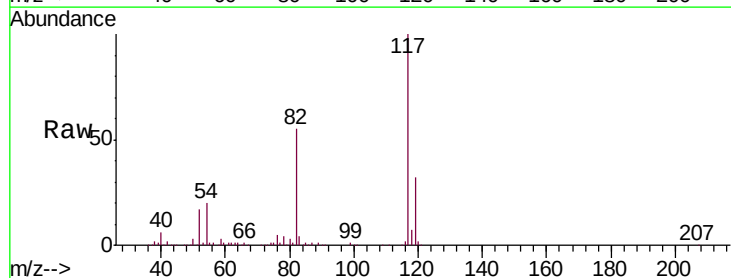
Instrument :
MSVOA_U
ClientSampleId :
TB-01-090419

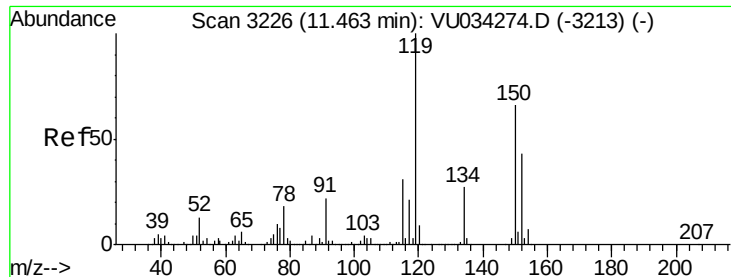
Tgt Ion	Ratio	Lower	Upper
95	100		
174	87.3	0.0	175.2
176	84.3	0.0	168.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. -0.00 min
Lab File: VU034279.D
Acq: 05 Sep 2019 13:02

Tgt Ion	Ratio	Lower	Upper
117	100		
82	54.7	44.6	67.0
119	32.5	25.9	38.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.46 min Scan# 3226

Delta R.T. -0.00 min

Lab File: VU034279.D

Acq: 05 Sep 2019 13:02

Instrument :

MSVOA_U

ClientSampleId :

TB-01-090419

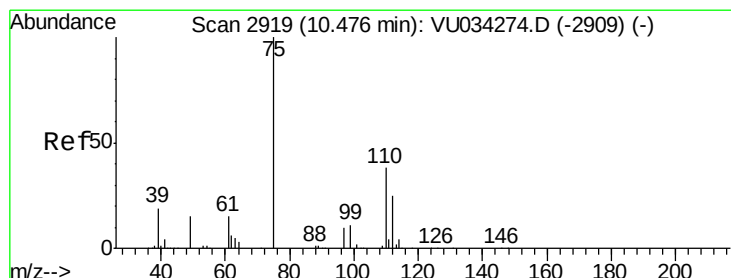
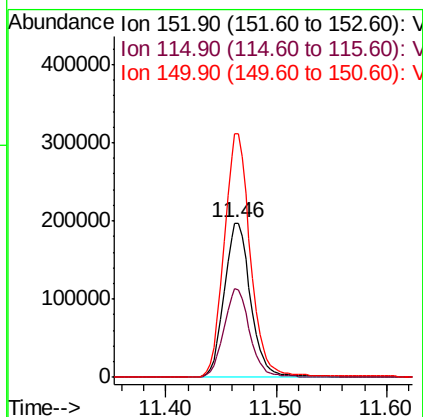
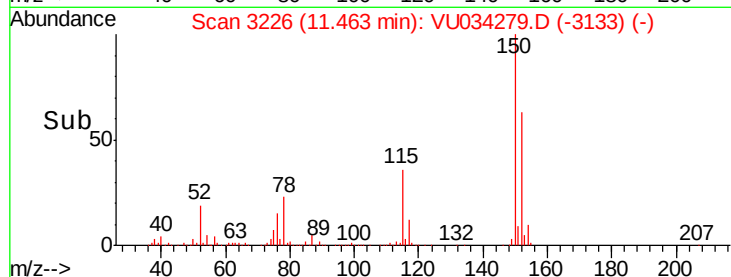
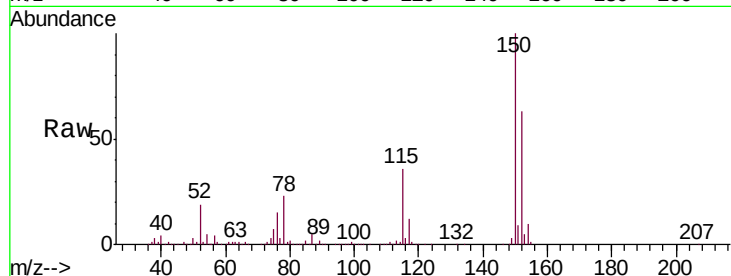
Tgt Ion:152 Resp: 328925

Ion Ratio Lower Upper

152 100

115 56.4 39.1 117.3

150 157.5 0.0 345.4



#76

1,2,3-Trichloropropane

Concen: 19.675 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034279.D

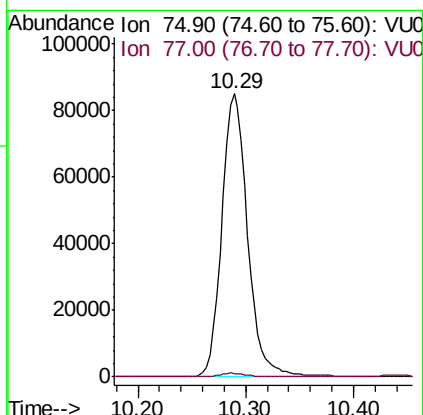
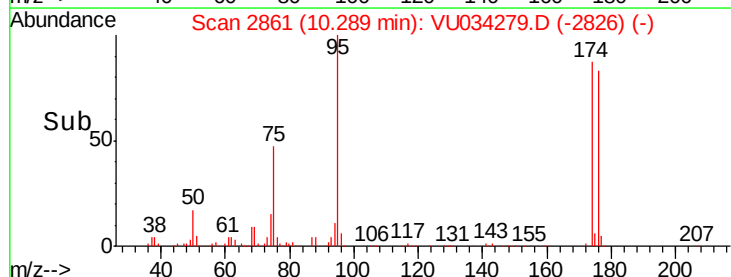
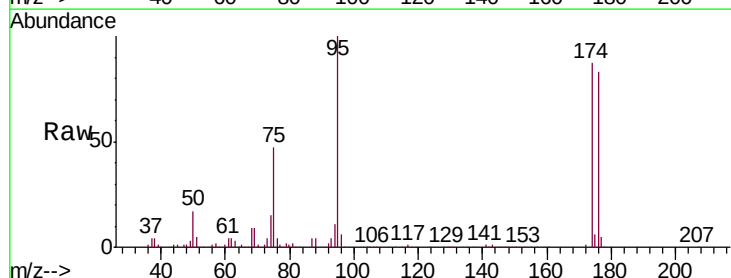
Acq: 05 Sep 2019 13:02

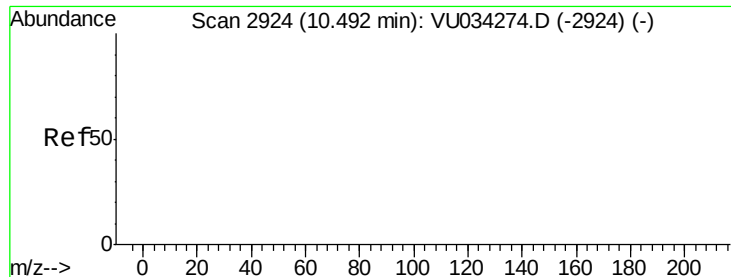
Tgt Ion: 75 Resp: 141261

Ion Ratio Lower Upper

75 100

77 1.3 20.8 62.2#





#81

trans-1,4-Dichloro-2-butene

Concen: 66.165 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.20 min

Lab File: VU034279.D

Acq: 05 Sep 2019 13:02

Instrument :

MSVOA_U

ClientSampleId :

TB-01-090419

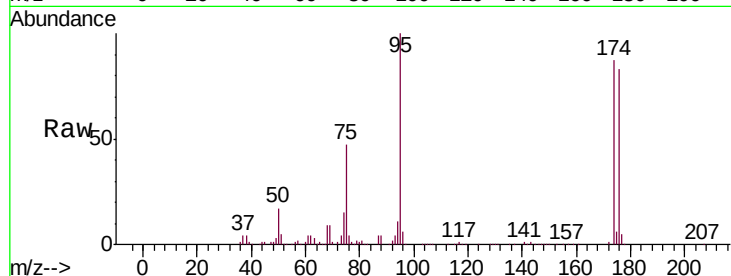
Tgt Ion: 75 Resp: 141261

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0#

89 0.0 0.0 0.0

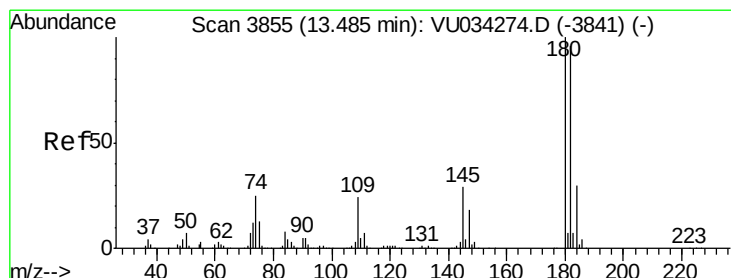
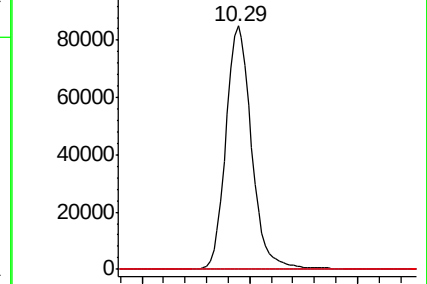
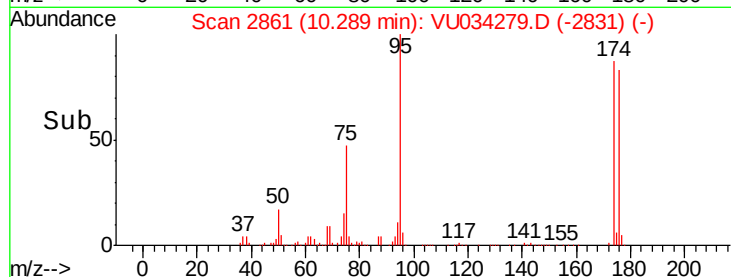


Abundance Ion 74.90 (74.60 to 75.60): VU034279.D (-2861) (-)

Ion 53.00 (52.70 to 53.70): VU034279.D (-2861) (-)

Ion 88.90 (88.60 to 89.60): VU034279.D (-2861) (-)

10.29



#93

1,2,4-Trichlorobenzene

Concen: 3.530 ug/l

RT: 13.51 min Scan# 3863

Delta R.T. 0.03 min

Lab File: VU034279.D

Acq: 05 Sep 2019 13:02

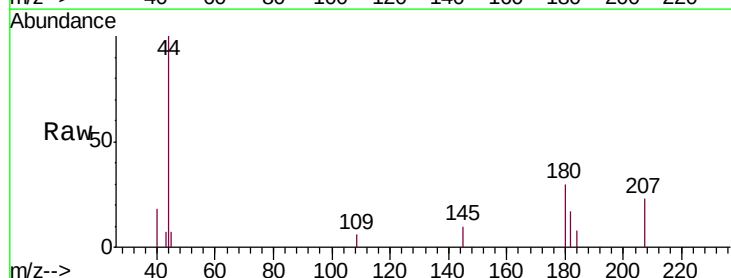
Tgt Ion: 180 Resp: 657

Ion Ratio Lower Upper

180 100

182 0.0 47.9 143.8#

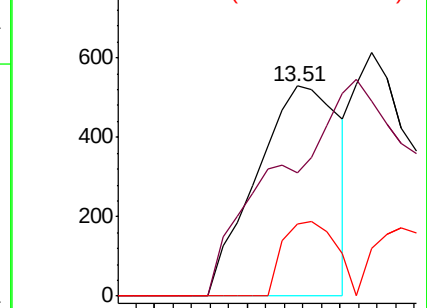
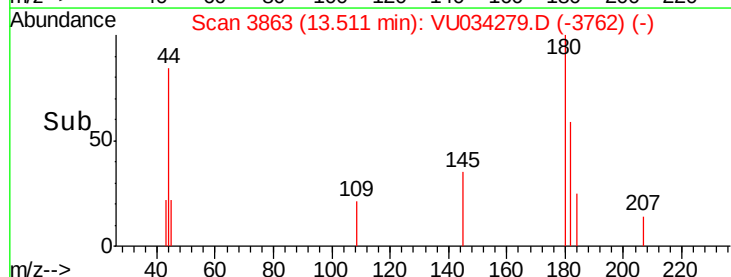
145 22.8 14.4 43.0

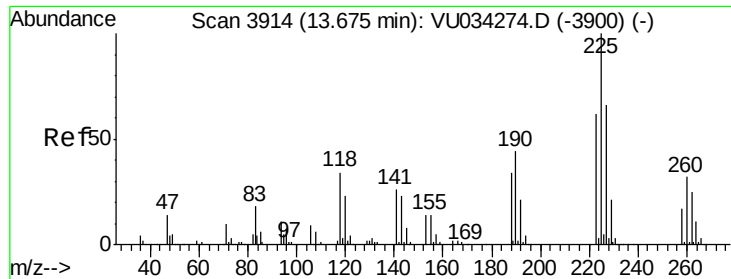


Abundance Ion 179.80 (179.50 to 180.50): VU034279.D (-3863) (-)

Ion 181.80 (181.50 to 182.50): VU034279.D (-3863) (-)

Ion 144.80 (144.50 to 145.50): VU034279.D (-3863) (-)





#94

Hexachlorobutadiene

Concen: 0.279 ug/l

RT: 13.68 min Scan# 3915

Delta R.T. 0.00 min

Lab File: VU034279.D

Acq: 05 Sep 2019 13:02

Instrument :

MSVOA_U

ClientSampleId :

TB-01-090419

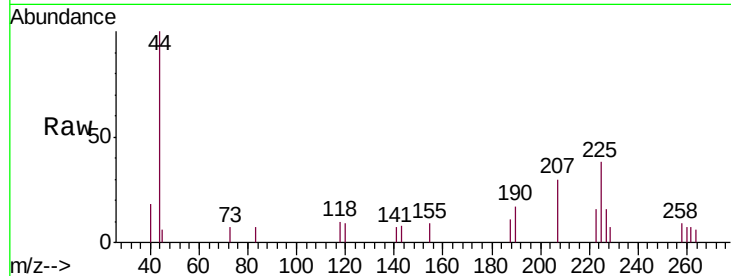
Tgt Ion:225 Resp: 1048

Ion Ratio Lower Upper

225 100

223 27.9 31.6 94.7#

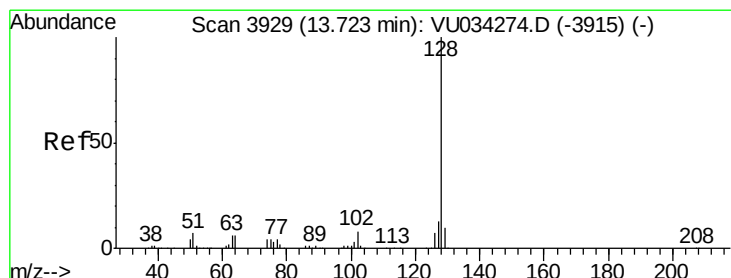
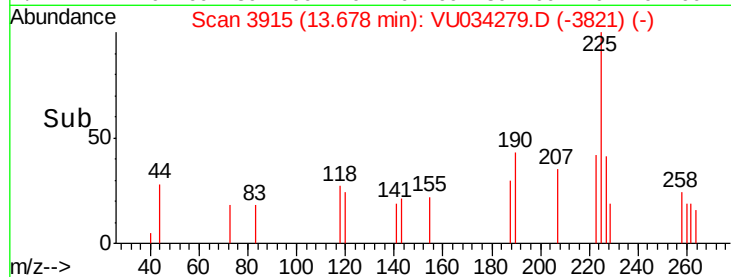
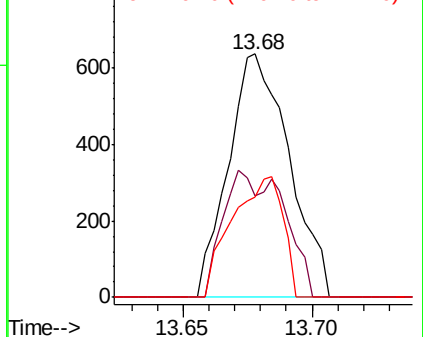
227 41.6 32.3 96.8



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 4.195 ug/l

RT: 13.76 min Scan# 3942

Delta R.T. 0.04 min

Lab File: VU034279.D

Acq: 05 Sep 2019 13:02

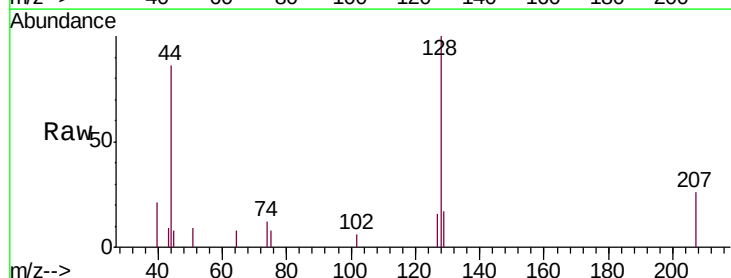
Tgt Ion:128 Resp: 5462

Ion Ratio Lower Upper

128 100

127 8.5 10.6 15.8#

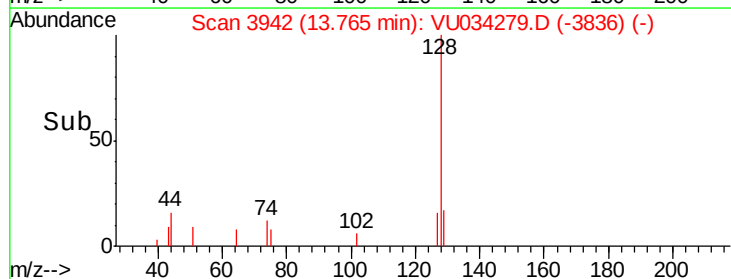
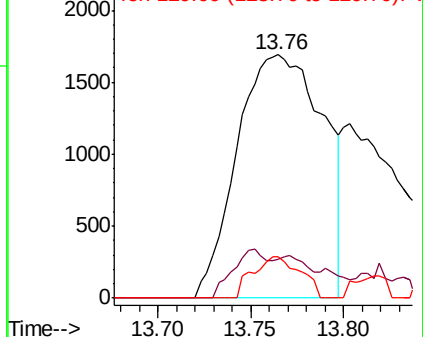
129 9.4 8.4 12.6

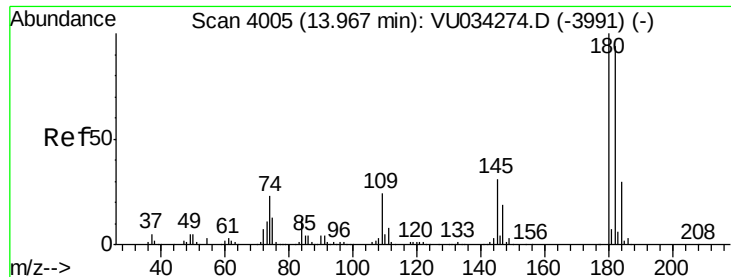


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 2.893 ug/l
 RT: 13.99 min Scan# 4012
 Delta R.T. 0.02 min
 Lab File: VU034279.D
 Acq: 05 Sep 2019 13:02

Instrument :
 MSVOA_U
 ClientSampleId :
 TB-01-090419

Tgt Ion	Ratio	Lower	Upper
180	100		
182	71.7	48.4	145.0
145	6.8	15.4	46.4#

