

Data File : VU034487.D
Acq On : 11 Sep 2019 20:15
Operator : JC/SP
Sample : K4643-26
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
T11-B1-(4)

Quant Time: Sep 12 04:43:42 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	249956	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	383164	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	399776	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	222408	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	219456	58.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.06%	
35) Dibromofluoromethane	4.86	113	192078	53.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.74%	
50) Toluene-d8	7.54	98	719993	53.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.50%	
62) 4-Bromofluorobenzene	10.29	95	241739	46.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.48%	

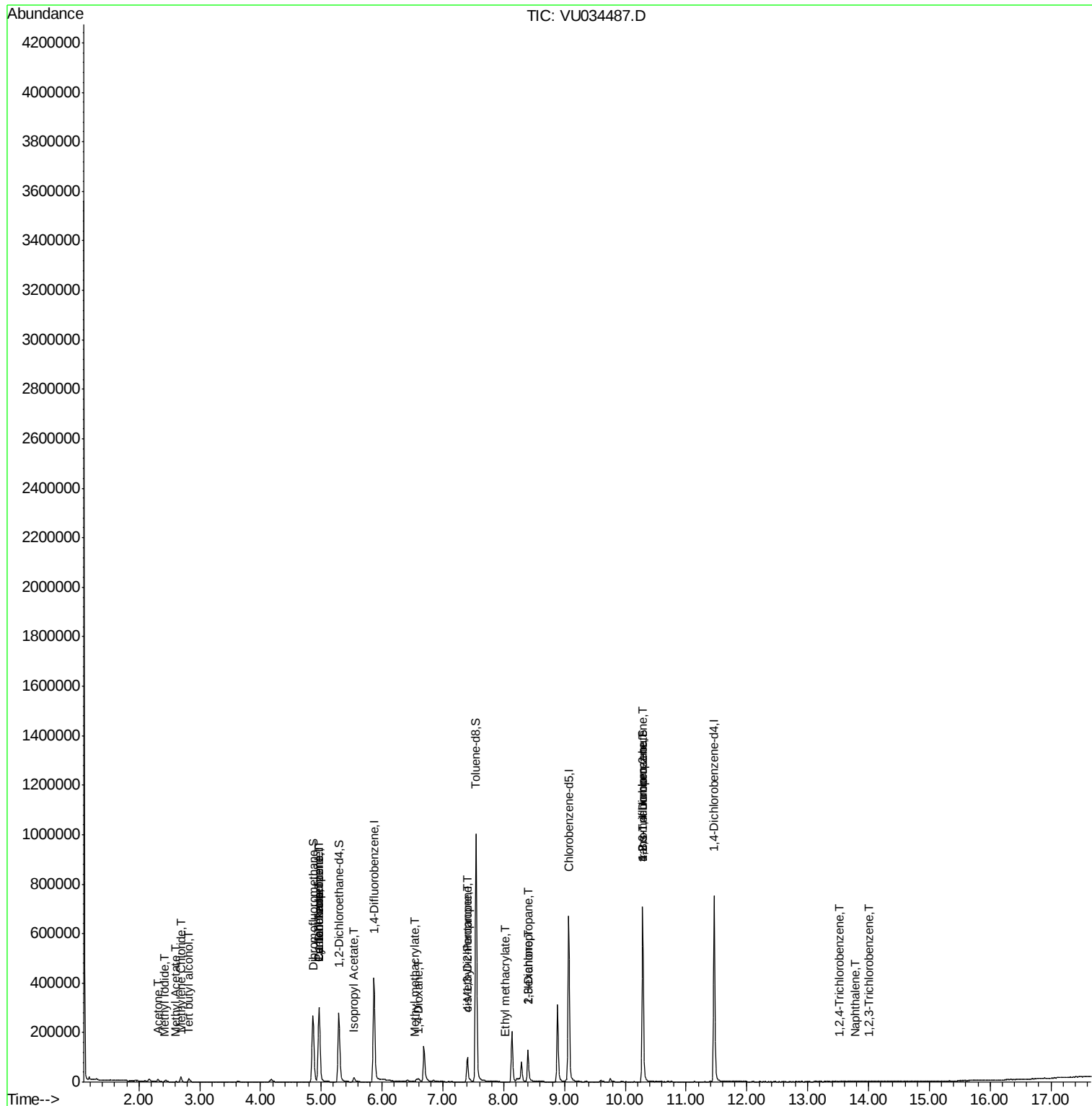
Target Compounds			Qvalue			
5) Bromomethane	1.63	94	656	Below Cal		95
6) Chloroethane	1.68	64	97	Below Cal	#	43
10) Methyl Iodide	2.41	142	367	3.974	ug/l #	43
11) Tert butyl alcohol	2.82	59	7387	9.246	ug/l #	73
16) Acetone	2.31	43	10635	5.434	ug/l	97
18) Methyl Acetate	2.61	43	1751	0.368	ug/l	91
20) Methylene Chloride	2.69	84	8682	2.327	ug/l	97
31) Cyclohexane	4.96	56	4030	0.910	ug/l #	1
36) 1,1-Dichloropropene	4.97	75	16575	3.989	ug/l #	46
38) Carbon Tetrachloride	4.96	117	22267	5.019	ug/l #	17
43) Isopropyl Acetate	5.54	43	23366	3.049	ug/l	98
48) Methyl methacrylate	6.53	41	2300	0.632	ug/l #	19
49) 1,4-Dioxane	6.60	88	41	0.516	ug/l #	22
51) 4-Methyl-2-Pentanone	7.40	43	34409	6.486	ug/l #	47
54) cis-1,3-Dichloropropene	7.40	75	19171	3.327	ug/l #	65
56) Ethyl methacrylate	8.03	69	82	3.090	ug/l #	28
57) 1,3-Dichloropropane	8.40	76	1382	0.222	ug/l #	43
59) 2-Hexanone	8.40	43	18205	4.593	ug/l #	61
76) 1,2,3-Trichloropropane	10.29	75	114007	23.483	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	114007	78.973	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.52	180	259	3.497	ug/l #	73
95) Naphthalene	13.77	128	1060	4.032	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.00	180	647	2.759	ug/l #	61

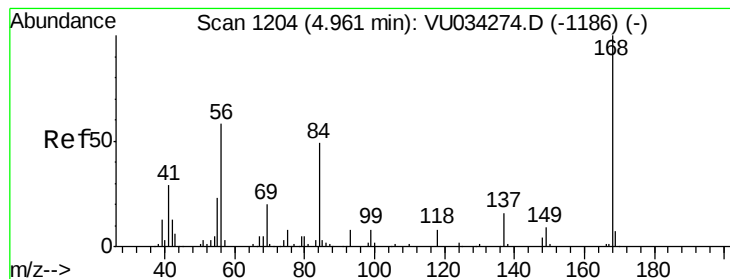
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU034487.D

Acq: 11 Sep 2019 20:15

Instrument :

MSVOA_U

ClientSampleId :

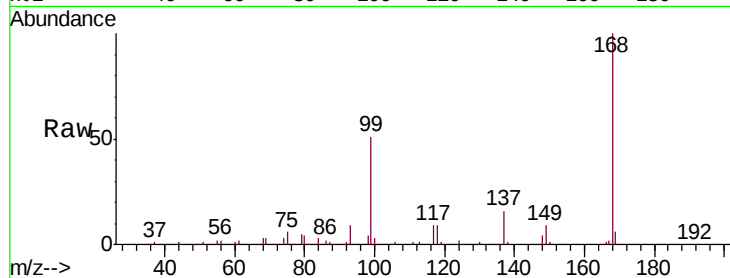
T11-B1-(4)

Tgt Ion:168 Resp: 249956

Ion Ratio Lower Upper

168 100

99 51.3 41.6 62.4



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

Ion 98.90 (98.60 to 99.60): VU034274.D (-1186) (-)

4.96

120000

100000

80000

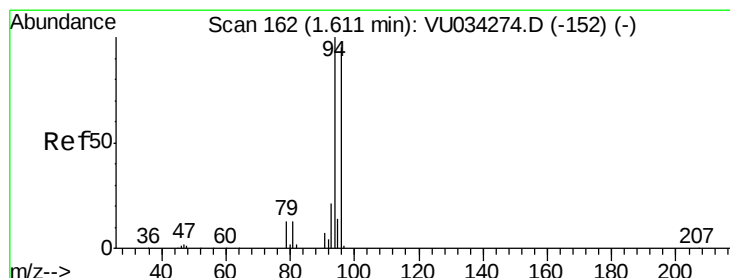
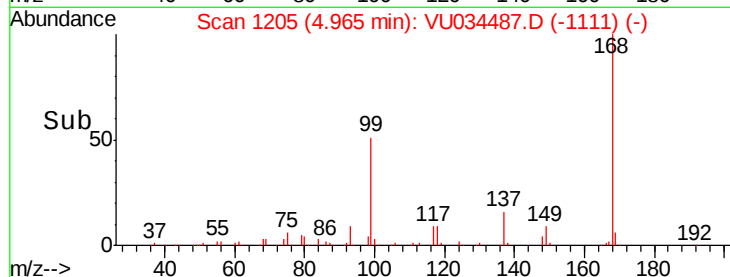
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 168

Delta R.T. 0.02 min

Lab File: VU034487.D

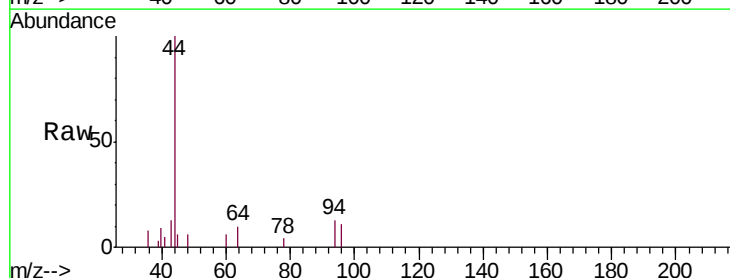
Acq: 11 Sep 2019 20:15

Tgt Ion: 94 Resp: 656

Ion Ratio Lower Upper

94 100

96 89.5 75.7 113.5



Abundance Ion 93.90 (93.60 to 94.60): VU034274.D (-152) (-)

Ion 95.90 (95.60 to 96.60): VU034274.D (-152) (-)

1.63

500

400

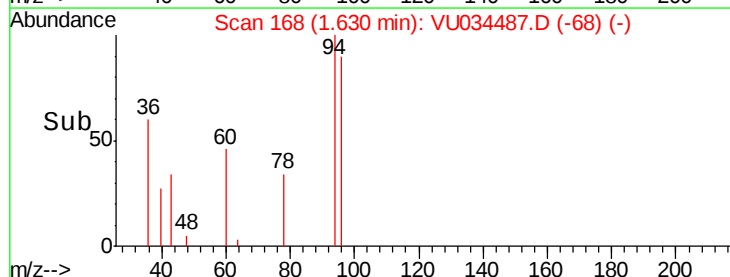
300

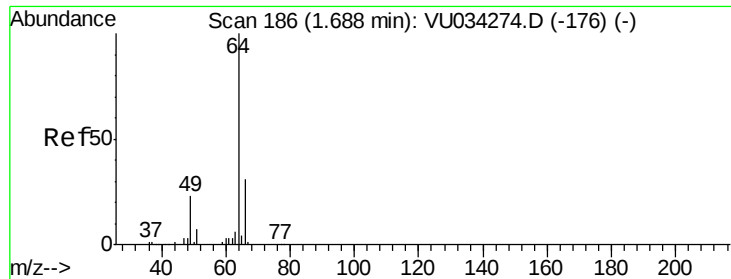
200

100

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.68 min Scan# 183

Delta R.T. -0.01 min

Lab File: VU034487.D

Acq: 11 Sep 2019 20:15

Instrument :

MSVOA_U

ClientSampleId :

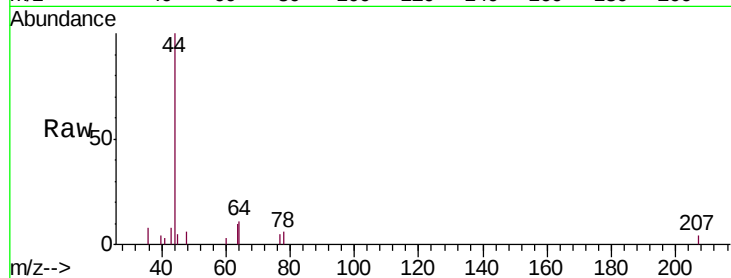
T11-B1-(4)

Tgt Ion: 64 Resp: 97

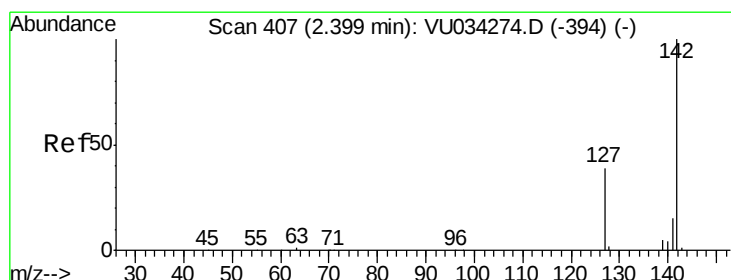
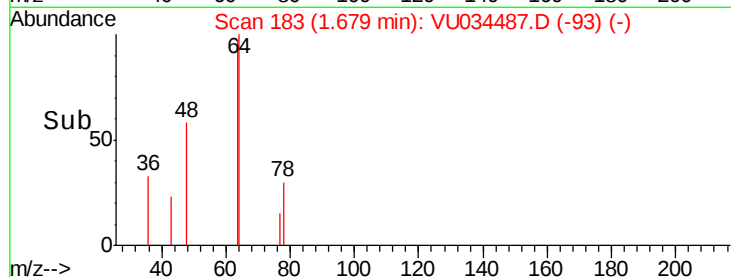
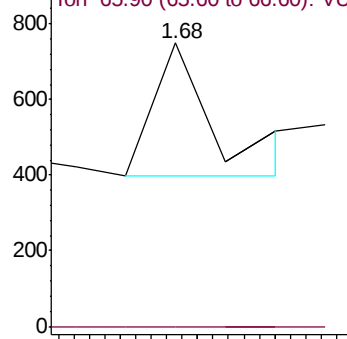
Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



Abundance Ion 63.90 (63.60 to 64.60): VU034274.D (-176) (-)



#10

Methyl Iodide

Concen: 3.974 ug/l

RT: 2.41 min Scan# 410

Delta R.T. 0.01 min

Lab File: VU034487.D

Acq: 11 Sep 2019 20:15

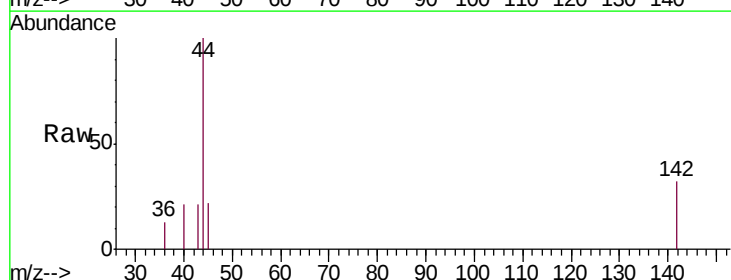
Tgt Ion: 142 Resp: 367

Ion Ratio Lower Upper

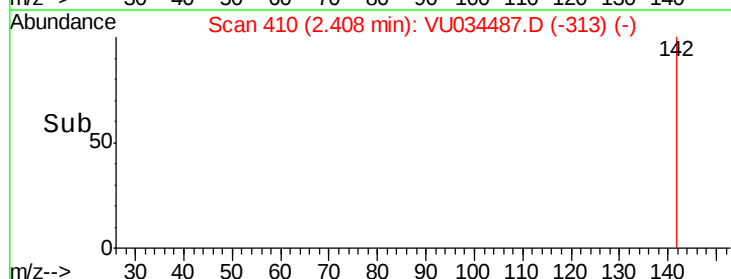
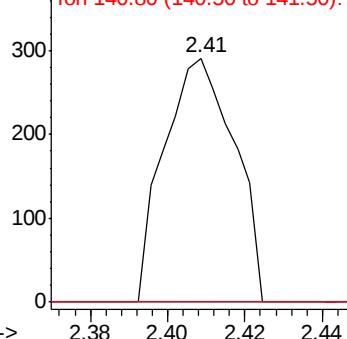
142 100

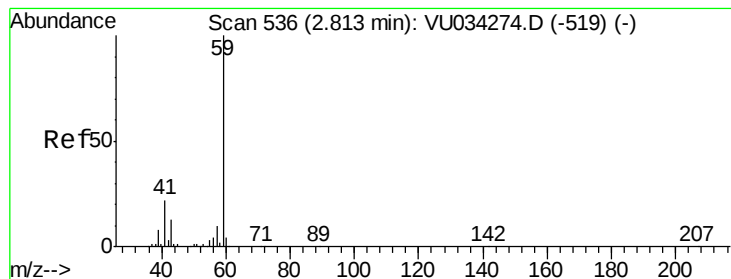
127 0.0 32.1 48.1#

141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): VU034274.D (-394) (-)





#11

Tert butyl alcohol

Concen: 9.246 ug/l

RT: 2.82 min Scan# 539

Delta R.T. 0.01 min

Lab File: VU034487.D

Acq: 11 Sep 2019 20:15

Instrument :

MSVOA_U

ClientSampleId :

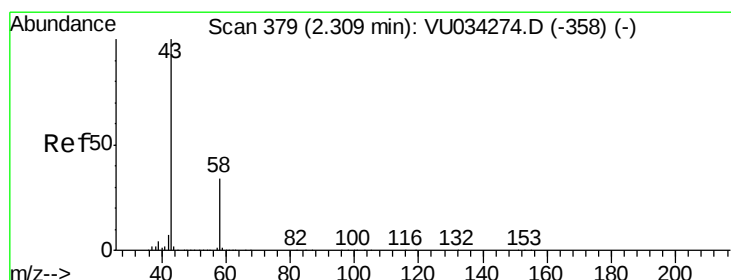
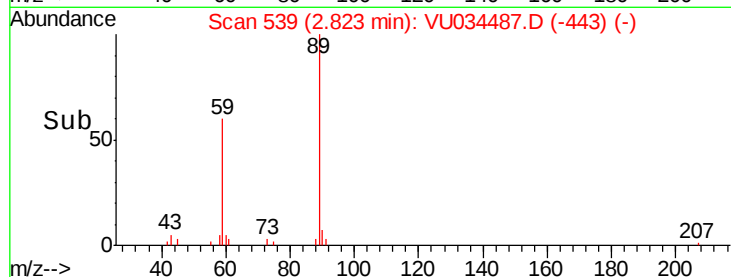
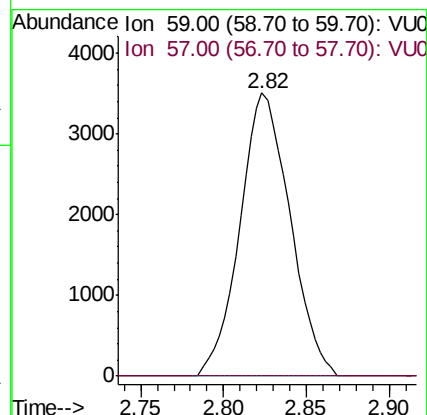
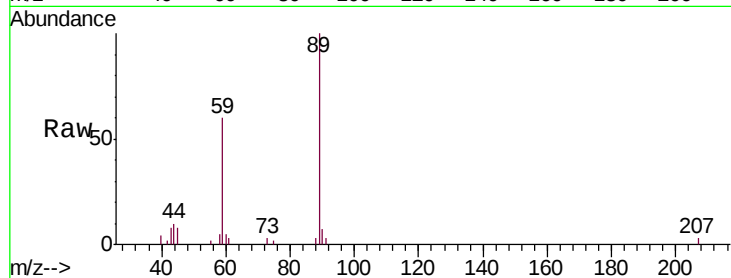
T11-B1-(4)

Tgt Ion: 59 Resp: 7387

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



#16

Acetone

Concen: 5.434 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034487.D

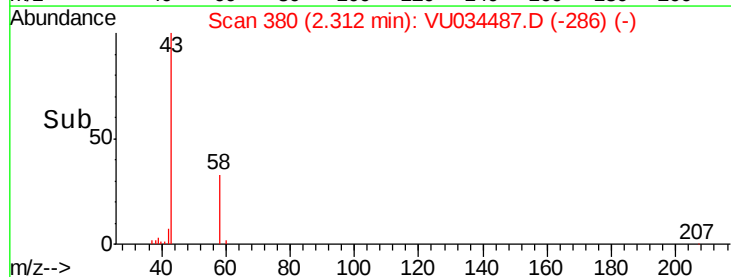
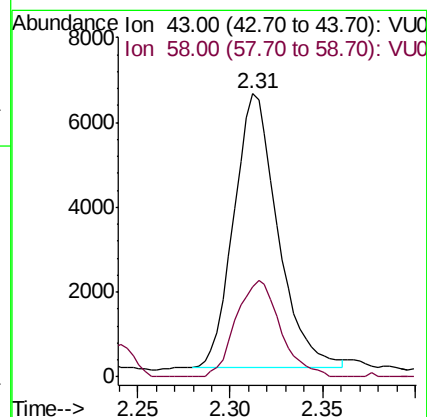
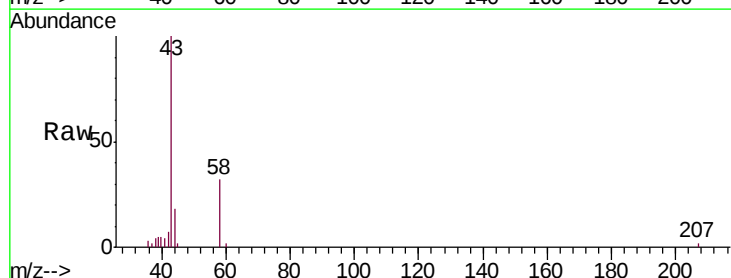
Acq: 11 Sep 2019 20:15

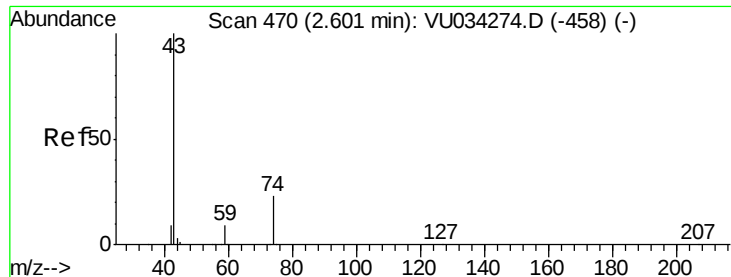
Tgt Ion: 43 Resp: 10635

Ion Ratio Lower Upper

43 100

58 32.9 27.6 41.4





#18

Methyl Acetate

Concen: 0.368 ug/l

RT: 2.61 min Scan# 473

Delta R.T. 0.01 min

Lab File: VU034487.D

Acq: 11 Sep 2019 20:15

Instrument :

MSVOA_U

ClientSampleId :

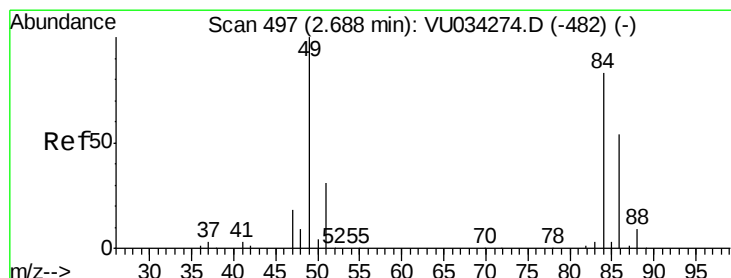
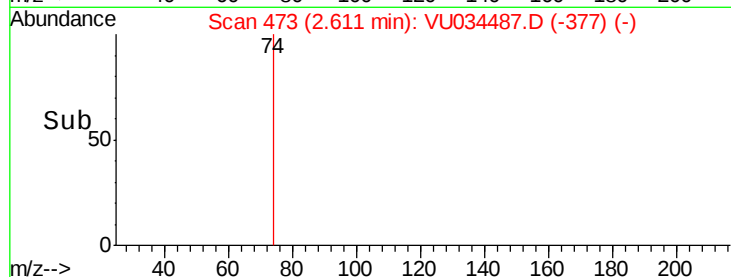
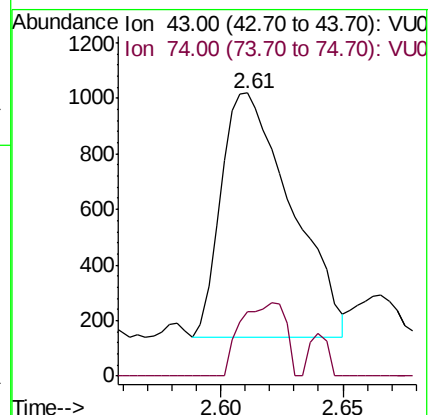
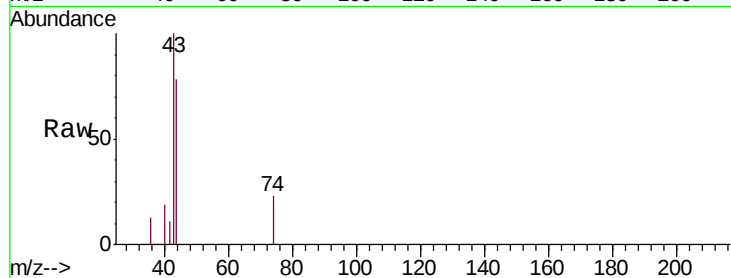
T11-B1-(4)

Tgt Ion: 43 Resp: 1751

Ion Ratio Lower Upper

43 100

74 19.2 18.9 28.3



#20

Methylene Chloride

Concen: 2.327 ug/l

RT: 2.69 min Scan# 498

Delta R.T. 0.00 min

Lab File: VU034487.D

Acq: 11 Sep 2019 20:15

Tgt Ion: 84 Resp: 8682

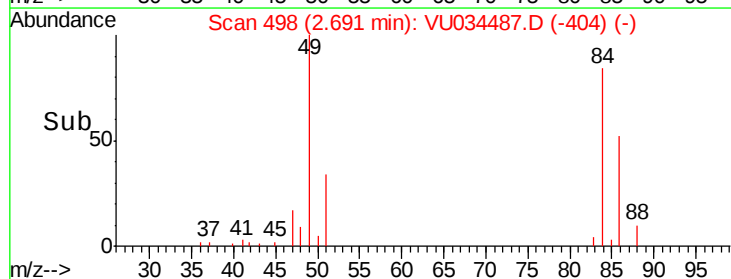
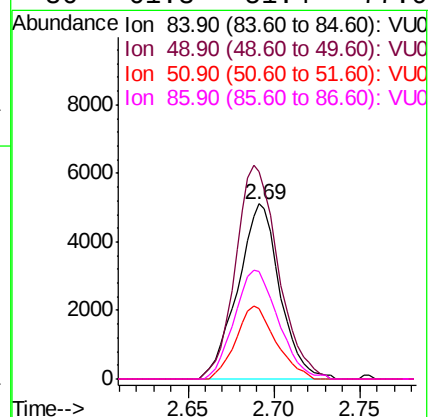
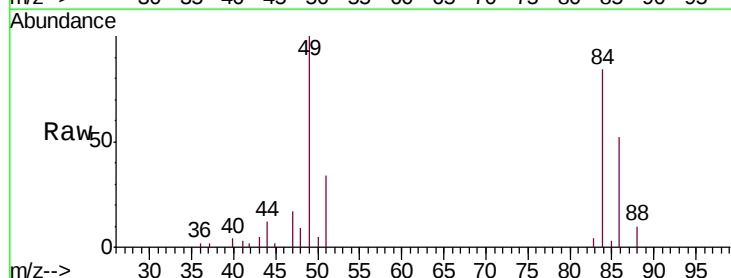
Ion Ratio Lower Upper

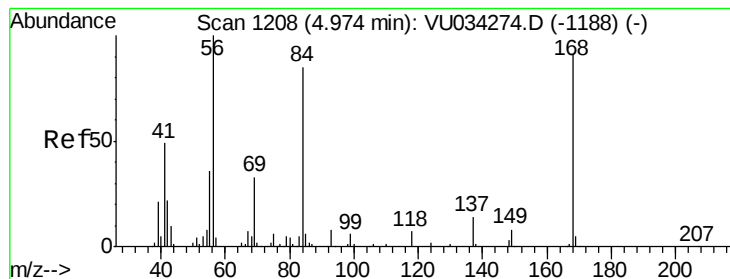
84 100

49 118.4 96.0 144.0

51 39.9 30.0 45.0

86 61.3 51.4 77.0





#31

Cyclohexane

Concen: 0.910 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.01 min

Lab File: VU034487.D

Acq: 11 Sep 2019 20:15

Instrument :

MSVOA_U

ClientSampleId :

T11-B1-(4)

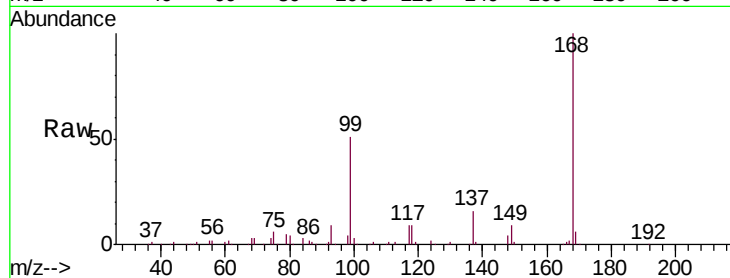
Tgt Ion: 56 Resp: 4030

Ion Ratio Lower Upper

56 100

69 201.4 26.7 40.1#

84 172.3 68.2 102.4#

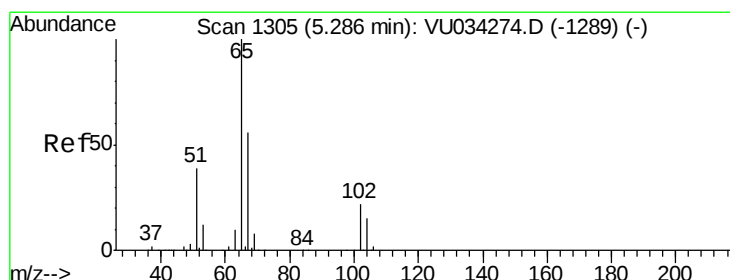
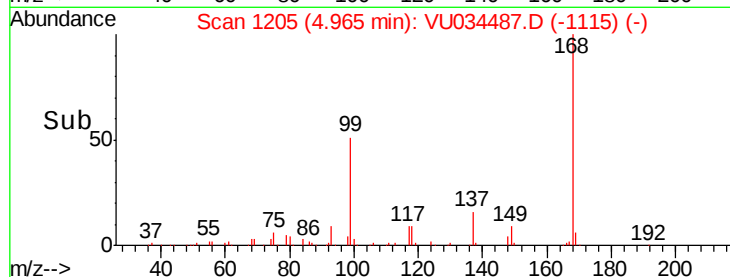
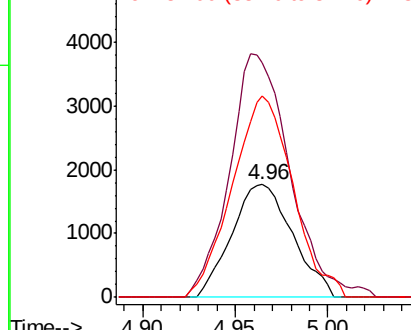


Abundance

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: 58.028 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034487.D

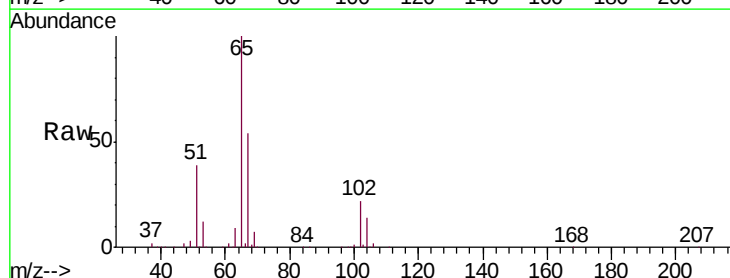
Acq: 11 Sep 2019 20:15

Tgt Ion: 65 Resp: 219456

Ion Ratio Lower Upper

65 100

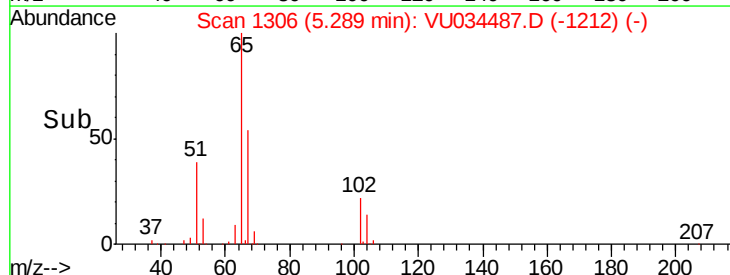
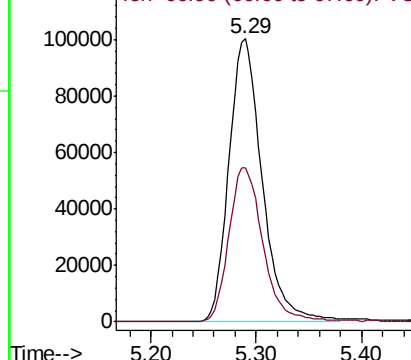
67 56.1 0.0 112.4

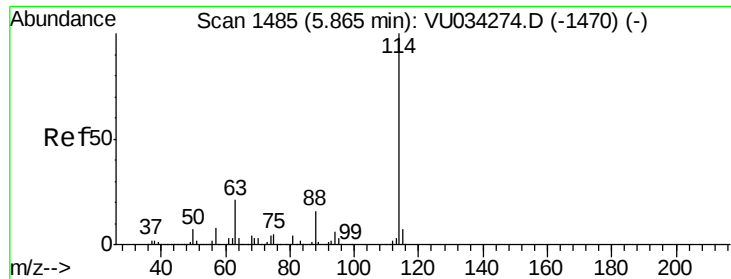


Abundance

Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0

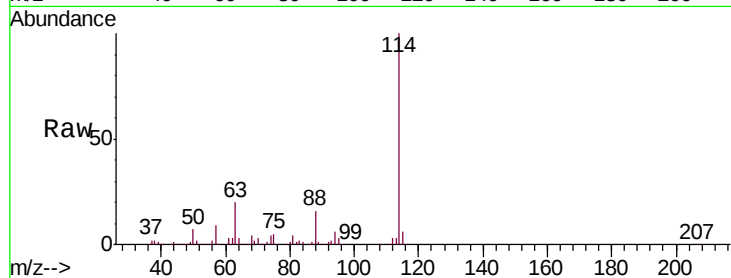




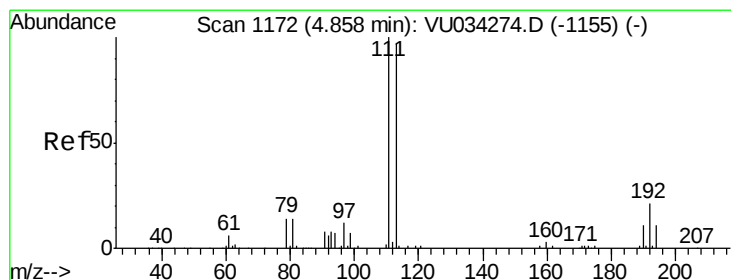
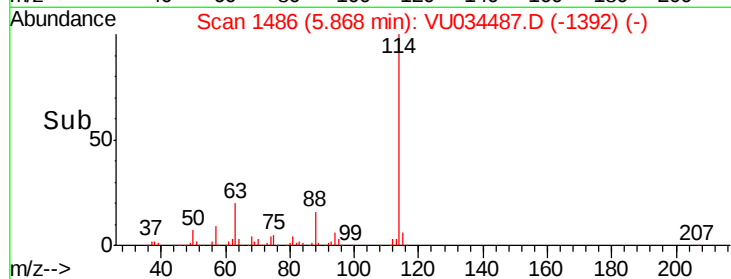
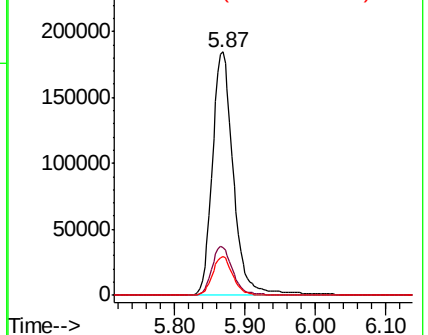
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034487.D
 Acq: 11 Sep 2019 20:15

Instrument :
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 T11-B1-(4)

Tgt Ion:114 Resp: 383164
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 42.4
 88 15.8 0.0 32.4

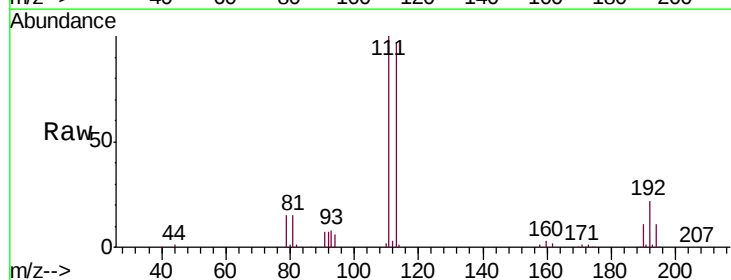


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

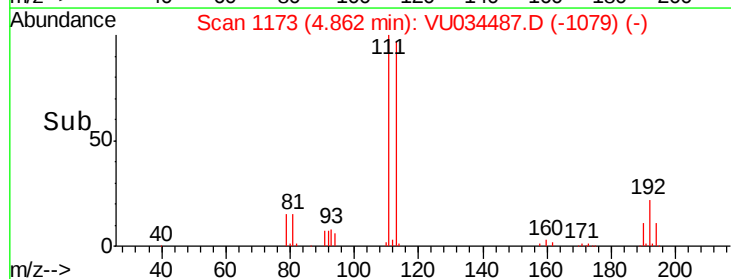
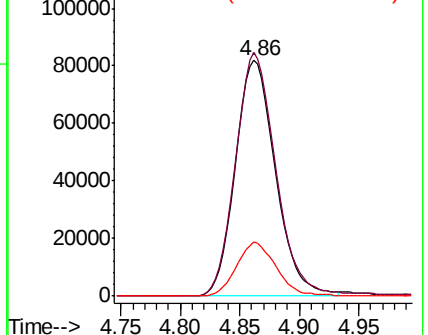


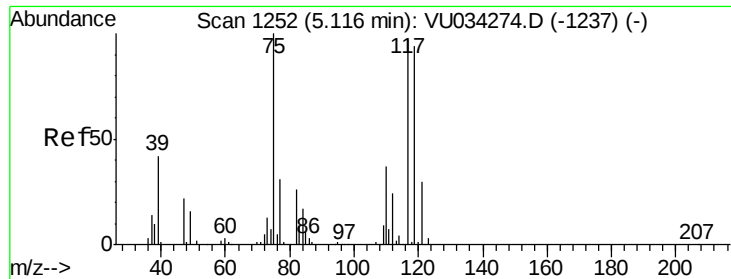
#35
 Dibromofluoromethane
 Concen: 53.873 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034487.D
 Acq: 11 Sep 2019 20:15

Tgt Ion:113 Resp: 192078
 Ion Ratio Lower Upper
 113 100
 111 104.1 81.5 122.3
 192 22.6 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: 3.989 ug/l

RT: 4.97 min Scan# 1206

Delta R.T. -0.15 min

Lab File: VU034487.D

Acq: 11 Sep 2019 20:15

Instrument :

MSVOA_U

ClientSampleId :

T11-B1-(4)

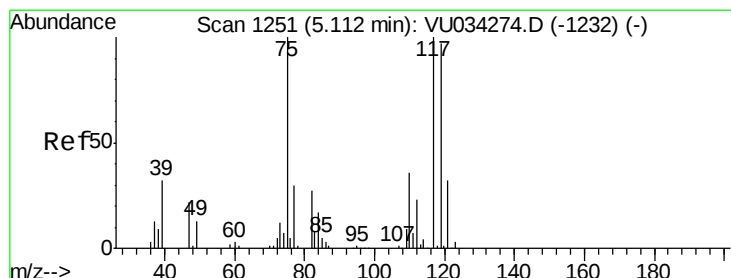
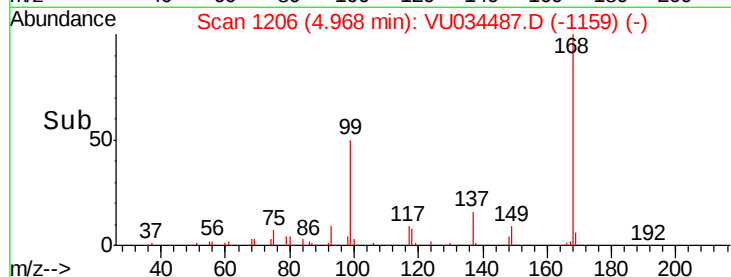
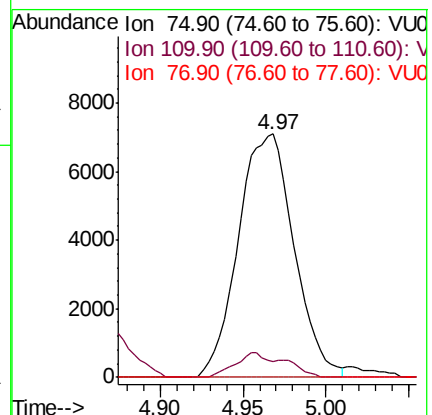
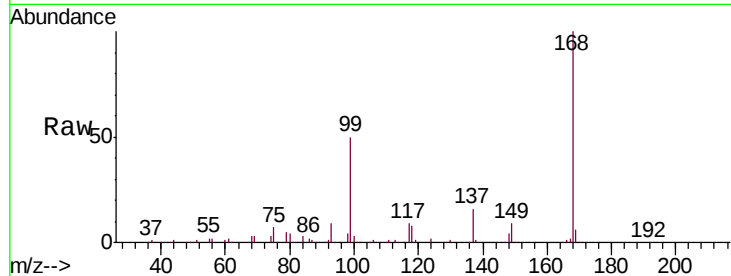
Tgt Ion: 75 Resp: 16575

Ion Ratio Lower Upper

75 100

110 6.0 18.3 54.9#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 5.019 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.15 min

Lab File: VU034487.D

Acq: 11 Sep 2019 20:15

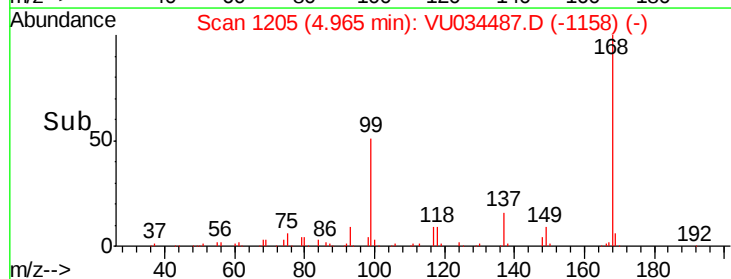
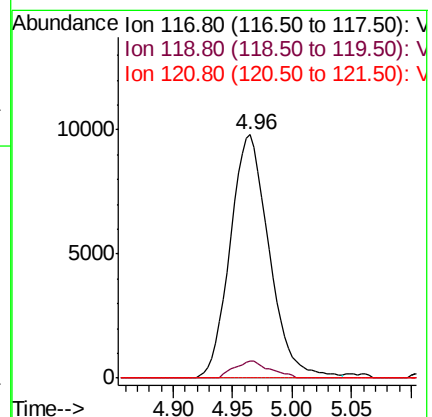
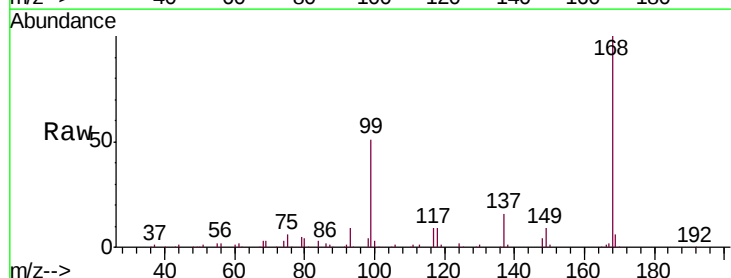
Tgt Ion: 117 Resp: 22267

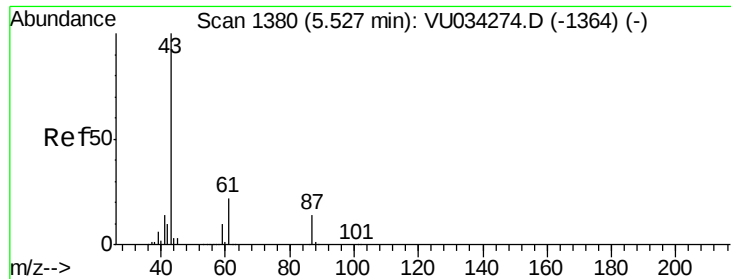
Ion Ratio Lower Upper

117 100

119 7.0 77.8 116.6#

121 0.0 25.2 37.8#





#43

Isopropyl Acetate

Concen: 3.049 ug/l

RT: 5.54 min Scan# 1383

Delta R.T. 0.01 min

Lab File: VU034487.D

Acq: 11 Sep 2019 20:15

Instrument :

MSVOA_U

ClientSampleId :

T11-B1-(4)

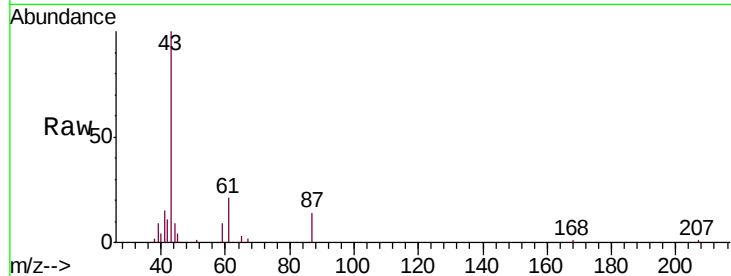
Tgt Ion: 43 Resp: 23366

Ion Ratio Lower Upper

43 100

61 20.6 17.1 25.7

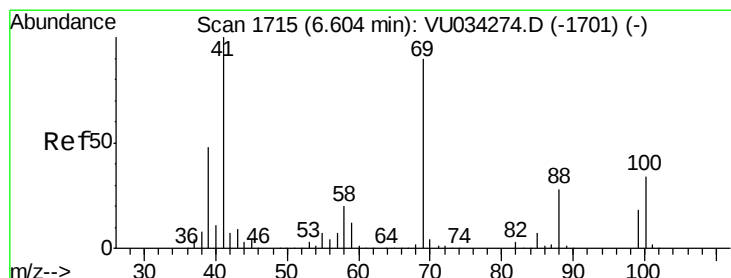
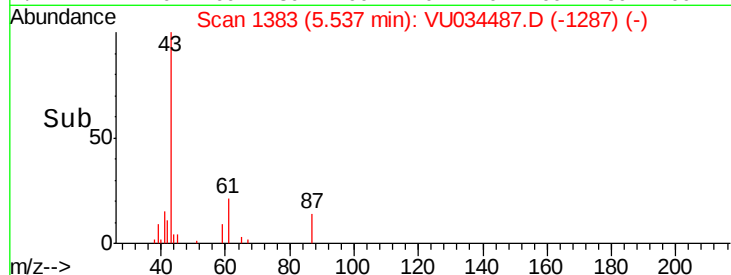
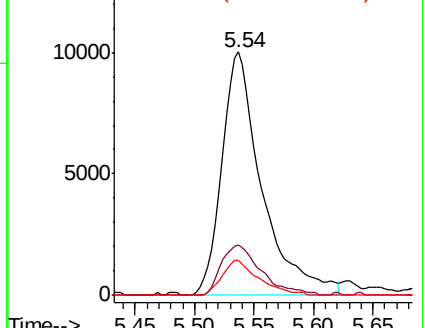
87 13.2 11.1 16.7



Abundance Ion 43.00 (42.70 to 43.70): VU034487.D (-1287) (-)

Ion 61.00 (60.70 to 61.70): VU034487.D (-1287) (-)

Ion 87.00 (86.70 to 87.70): VU034487.D (-1287) (-)



#48

Methyl methacrylate

Concen: 0.632 ug/l

RT: 6.53 min Scan# 1692

Delta R.T. -0.07 min

Lab File: VU034487.D

Acq: 11 Sep 2019 20:15

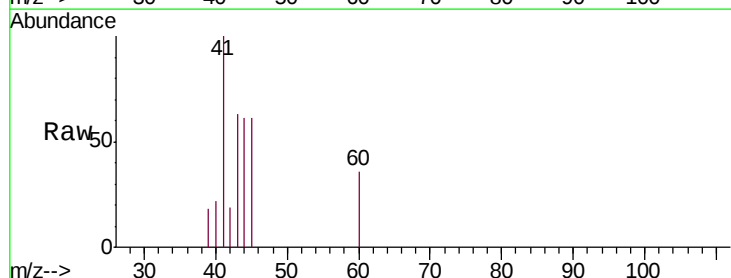
Tgt Ion: 41 Resp: 2300

Ion Ratio Lower Upper

41 100

69 0.0 72.8 109.2#

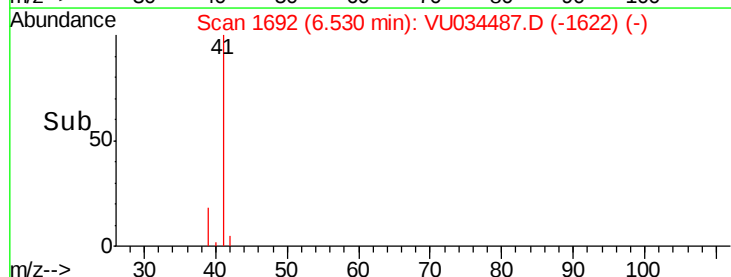
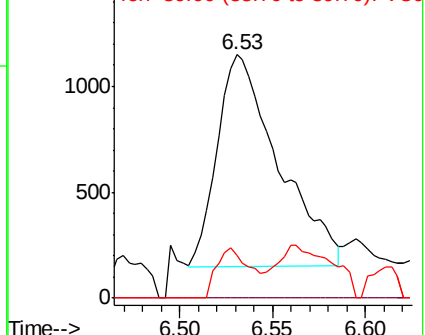
39 12.7 38.6 58.0#

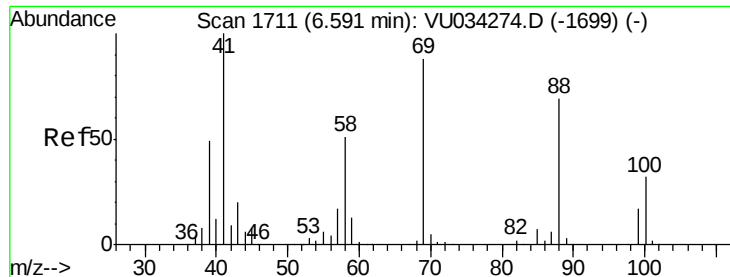


Abundance Ion 41.00 (40.70 to 41.70): VU034487.D (-1622) (-)

Ion 69.00 (68.70 to 69.70): VU034487.D (-1622) (-)

Ion 39.00 (38.70 to 39.70): VU034487.D (-1622) (-)

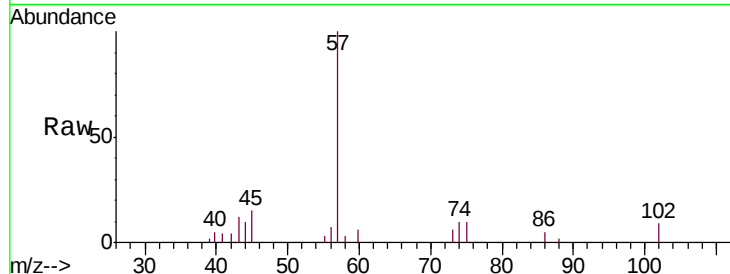




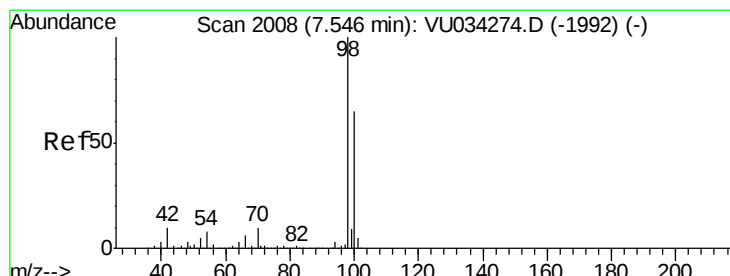
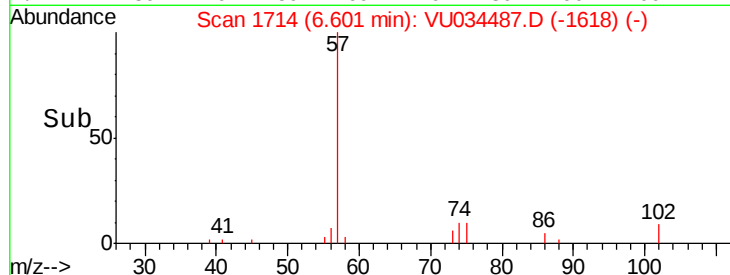
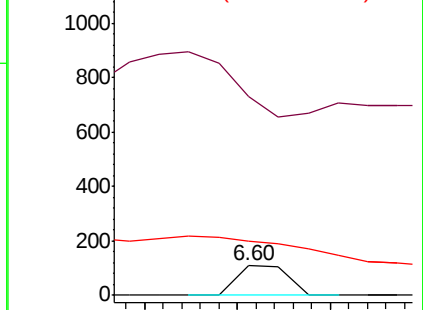
#49
1,4-Dioxane
Concen: 0.516 ug/l
RT: 6.60 min Scan# 1714
Delta R.T. 0.01 min
Lab File: VU034487.D
Acq: 11 Sep 2019 20:15

Instrument :
MSVOA_U
ClientSampleId :
T11-B1-(4)

Tgt Ion: 88 Resp: 41
Ion Ratio Lower Upper
88 100
43 0.0 23.8 35.6#
58 0.0 58.4 87.6#

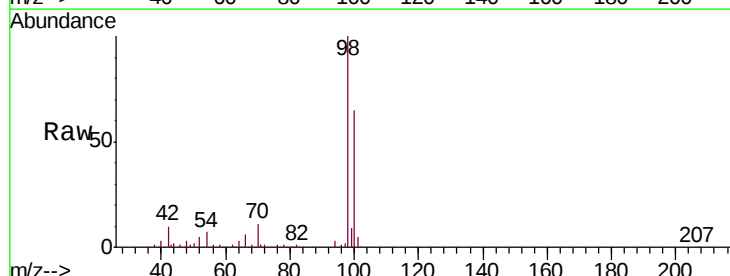


Abundance Ion 88.00 (87.70 to 88.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0

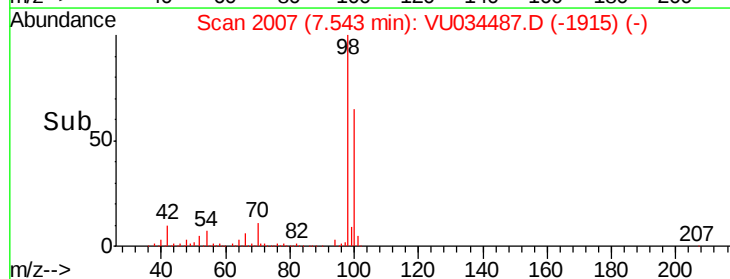
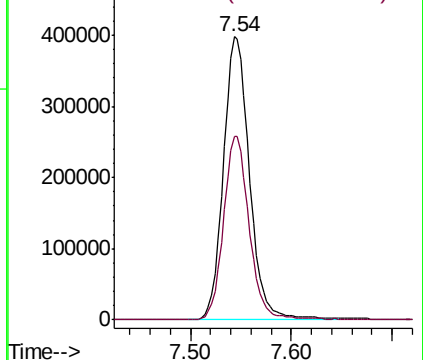


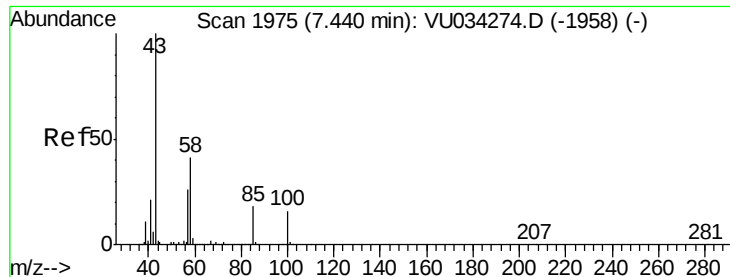
#50
Toluene-d8
Concen: 53.750 ug/l
RT: 7.54 min Scan# 2007
Delta R.T. -0.00 min
Lab File: VU034487.D
Acq: 11 Sep 2019 20:15

Tgt Ion: 98 Resp: 719993
Ion Ratio Lower Upper
98 100
100 63.9 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

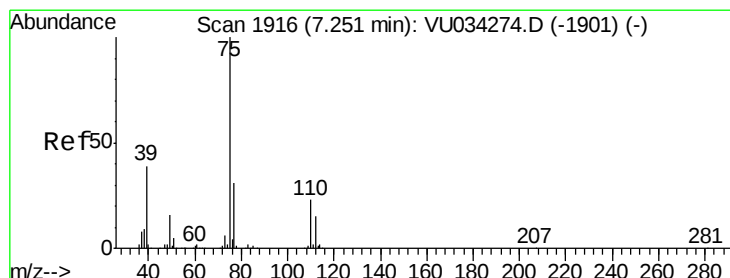
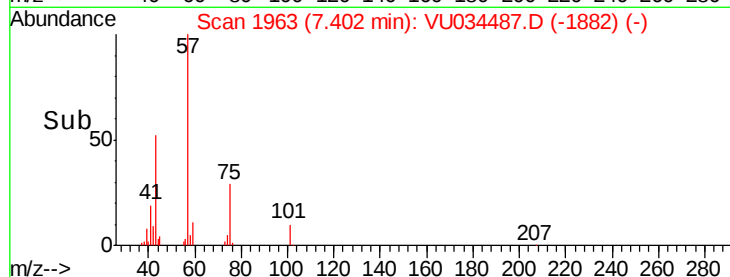
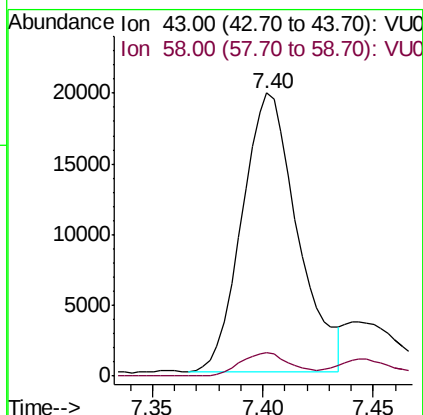
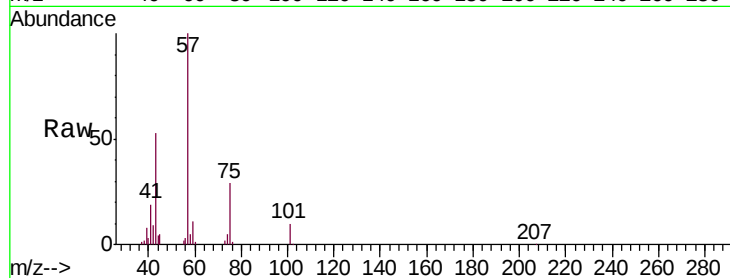




#51
 4-Methyl-2-Pentanone
 Concen: 6.486 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. -0.04 min
 Lab File: VU034487.D
 Acq: 11 Sep 2019 20:15

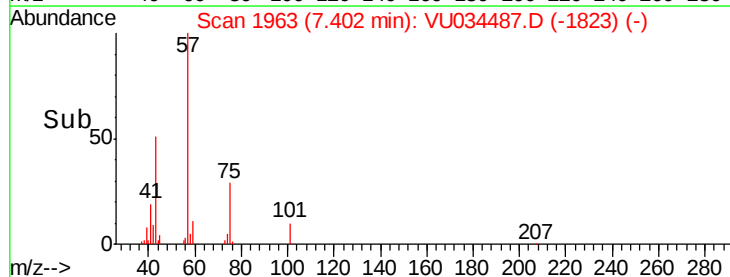
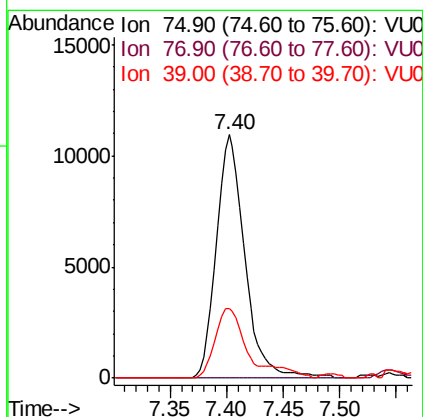
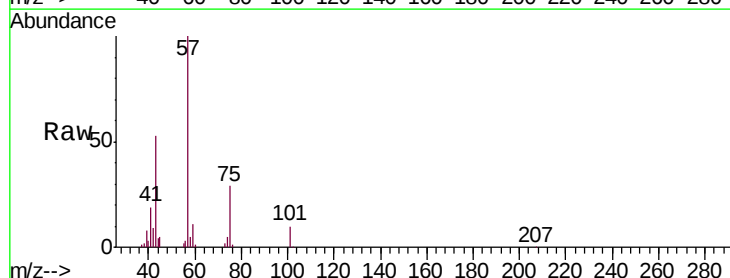
Instrument :
 MSVOA_U
 ClientSampleId :
 T11-B1-(4)

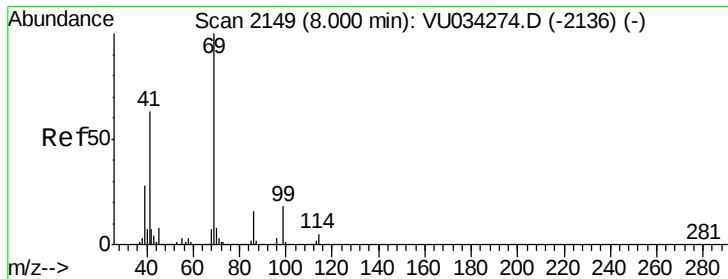
Tgt Ion: 43 Resp: 34409
 Ion Ratio Lower Upper
 43 100
 58 7.7 33.0 49.4#



#54
 cis-1,3-Dichloropropene
 Concen: 3.327 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034487.D
 Acq: 11 Sep 2019 20:15

Tgt Ion: 75 Resp: 19171
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.1 37.7#
 39 28.7 31.2 46.8#





#56

Ethyl methacrylate

Concen: 3.090 ug/l

RT: 8.03 min Scan# 2157

Delta R.T. 0.03 min

Lab File: VU034487.D

Acq: 11 Sep 2019 20:15

Instrument :

MSVOA_U

ClientSampleId :

T11-B1-(4)

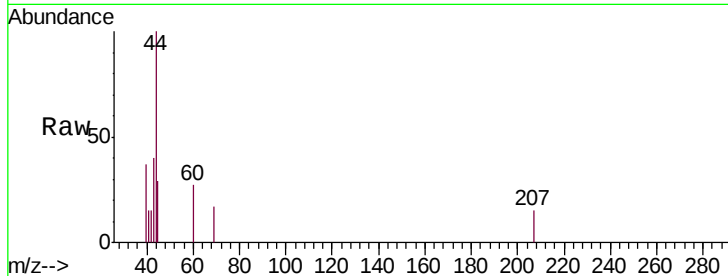
Tgt Ion: 69 Resp: 82

Ion Ratio Lower Upper

69 100

41 0.0 49.5 74.3#

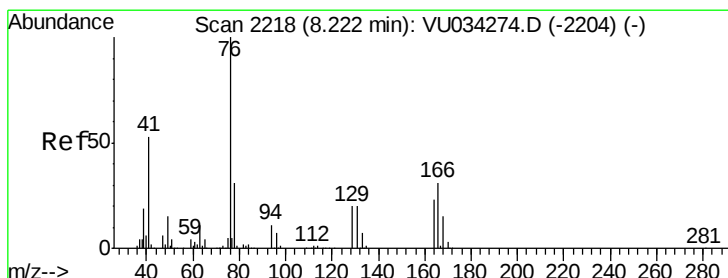
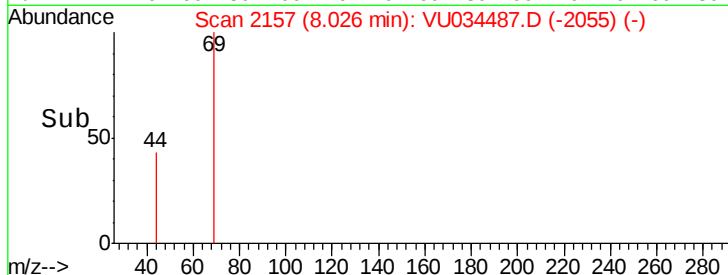
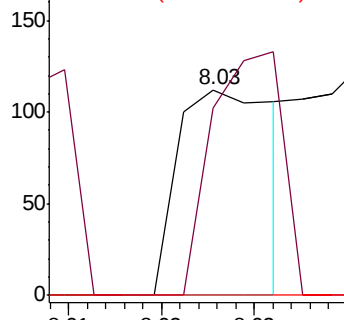
39 0.0 22.5 33.7#



Abundance Ion 69.00 (68.70 to 69.70): VU0

Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0



#57

1,3-Dichloropropane

Concen: 0.222 ug/l

RT: 8.40 min Scan# 2272

Delta R.T. 0.17 min

Lab File: VU034487.D

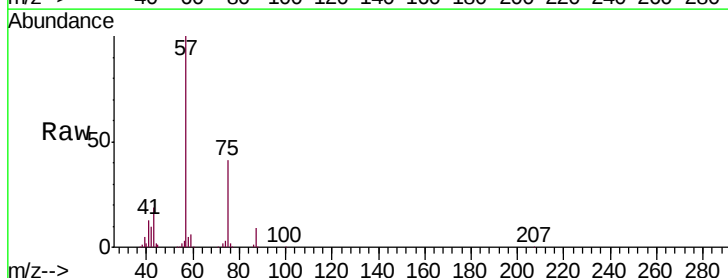
Acq: 11 Sep 2019 20:15

Tgt Ion: 76 Resp: 1382

Ion Ratio Lower Upper

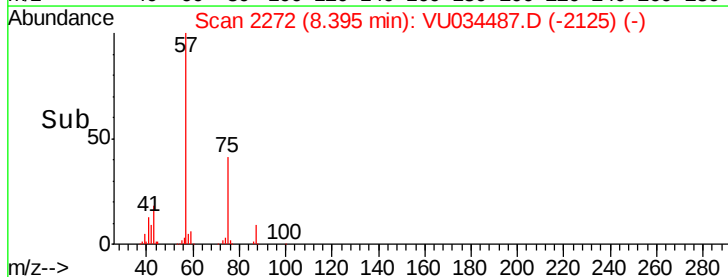
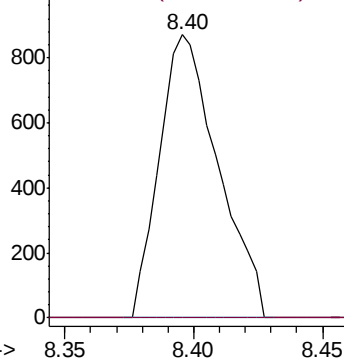
76 100

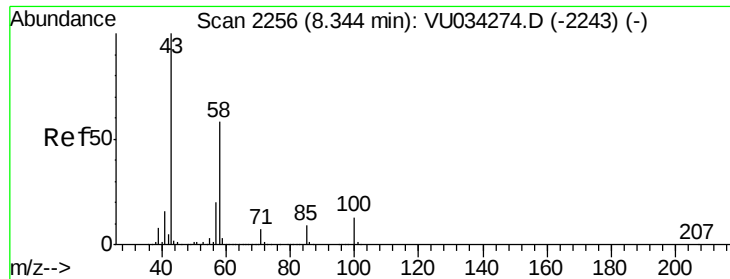
78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0

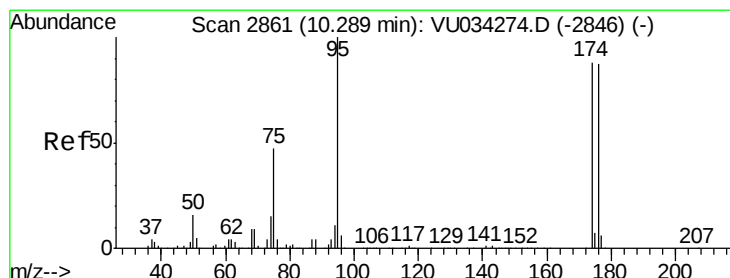
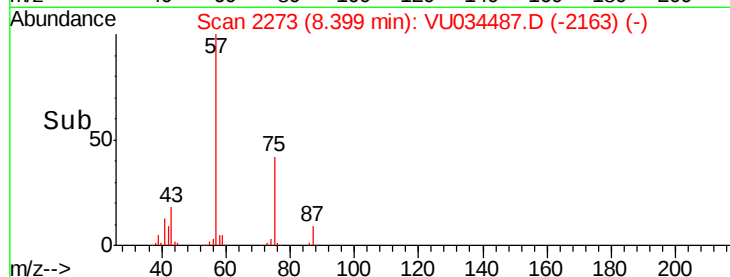
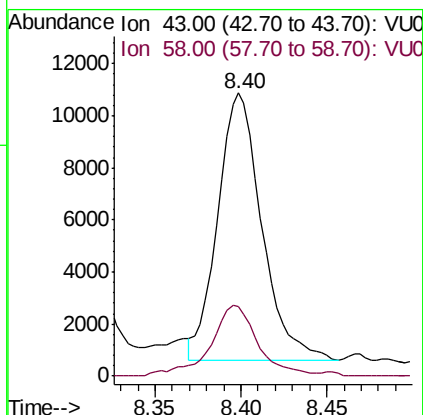
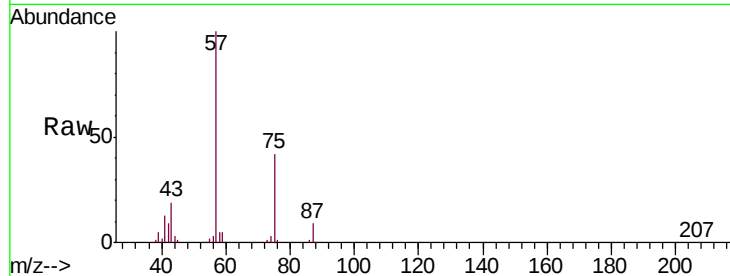




#59
 2-Hexanone
 Concen: 4.593 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.05 min
 Lab File: VU034487.D
 Acq: 11 Sep 2019 20:15

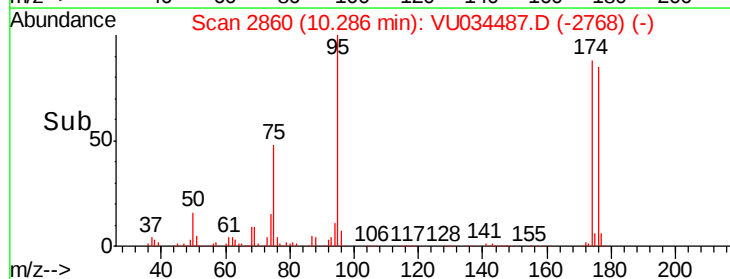
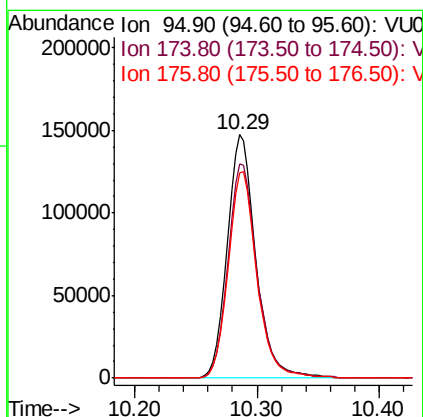
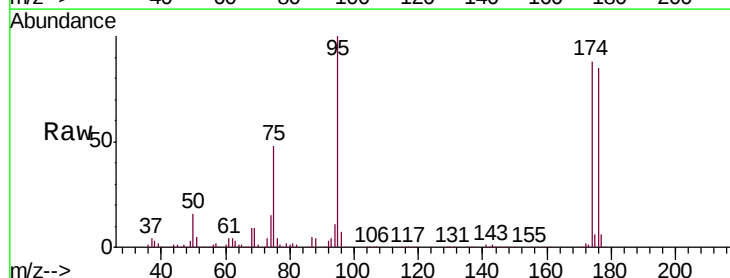
Instrument :
 MSVOA_U
 ClientSampleId :
 T11-B1-(4)

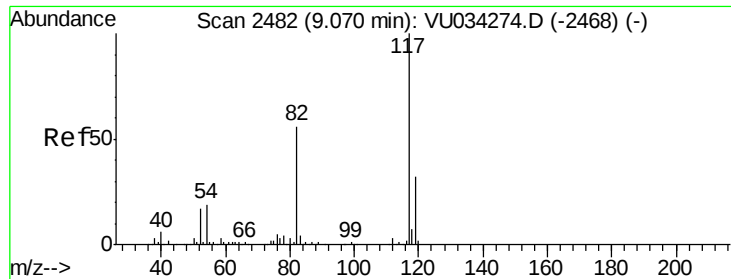
Tgt Ion: 43 Resp: 18205
 Ion Ratio Lower Upper
 43 100
 58 28.8 28.8 86.5#



#62
 4-Bromofluorobenzene
 Concen: 46.742 ug/l
 RT: 10.29 min Scan# 2860
 Delta R.T. -0.00 min
 Lab File: VU034487.D
 Acq: 11 Sep 2019 20:15

Tgt Ion: 95 Resp: 241739
 Ion Ratio Lower Upper
 95 100
 174 89.6 0.0 175.2
 176 85.2 0.0 168.0

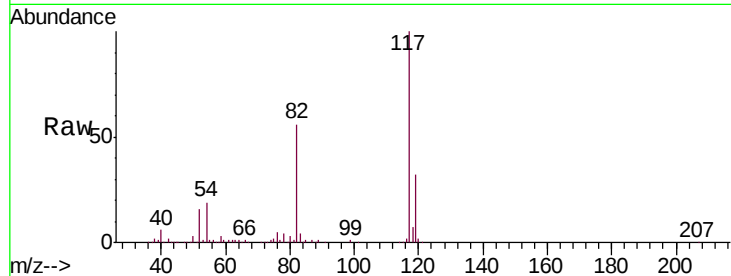




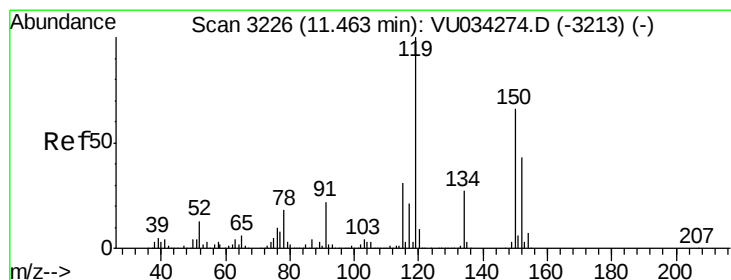
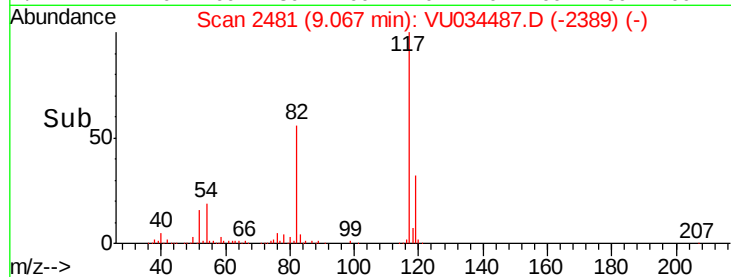
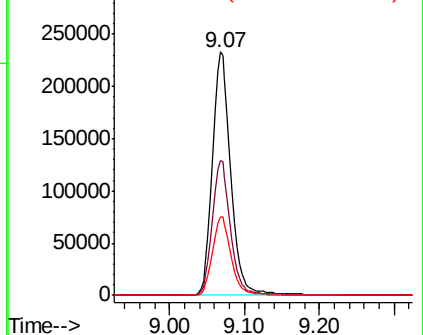
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2481
Delta R.T. -0.00 min
Lab File: VU034487.D
Acq: 11 Sep 2019 20:15

Instrument :
MSVOA_U
ClientSampleId :
T11-B1-(4)

Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.6	44.6	67.0
119	32.5	25.9	38.9

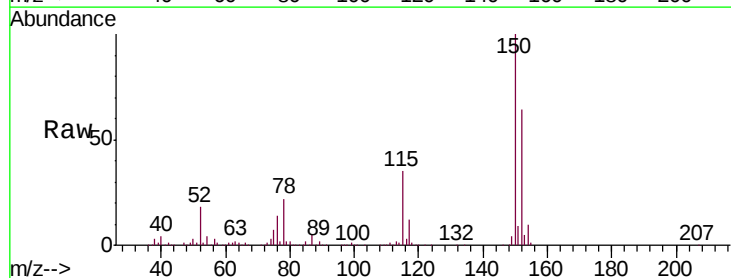


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

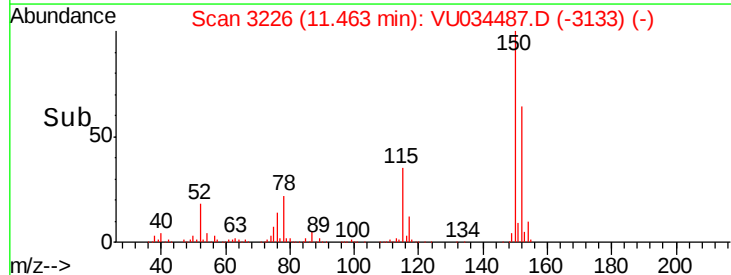
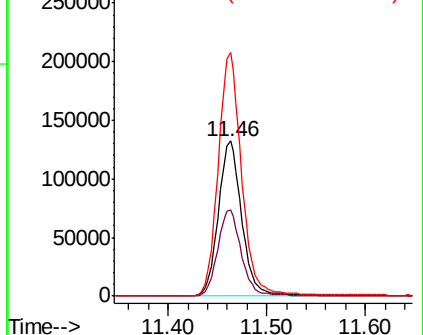


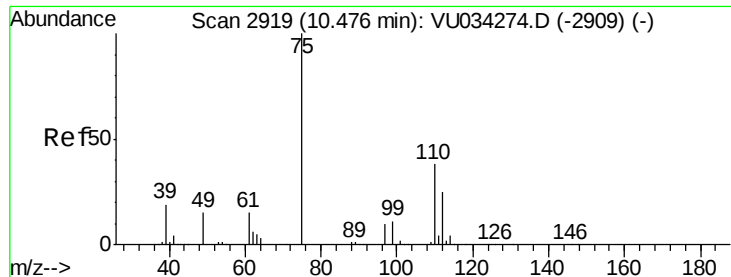
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. 0.00 min
Lab File: VU034487.D
Acq: 11 Sep 2019 20:15

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.3	39.1	117.3
150	155.7	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

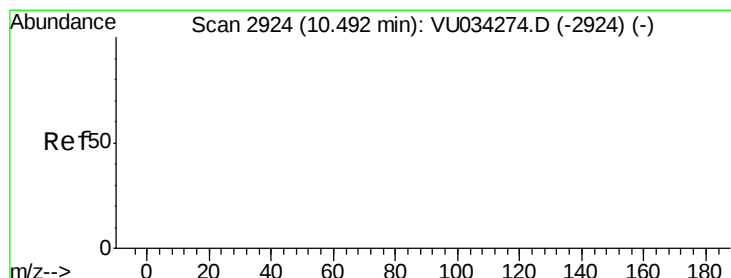
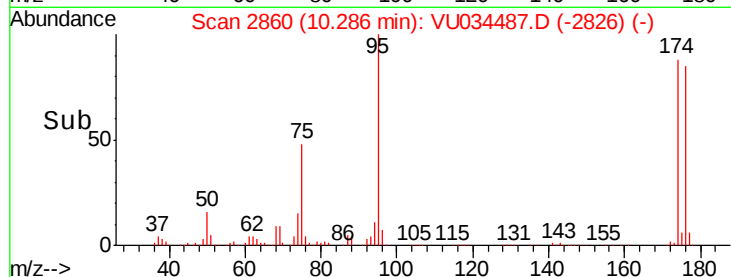
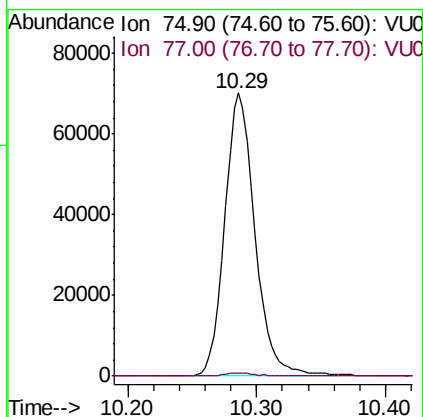
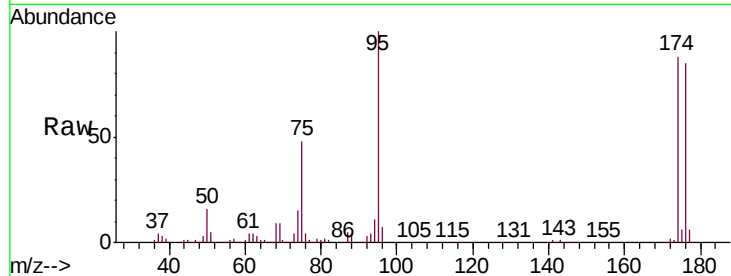




#76
 1,2,3-Trichloropropane
 Concen: 23.483 ug/l
 RT: 10.29 min Scan# 2860
 Delta R.T. -0.19 min
 Lab File: VU034487.D
 Acq: 11 Sep 2019 20:15

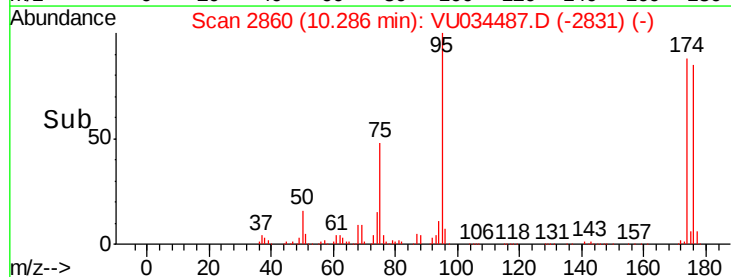
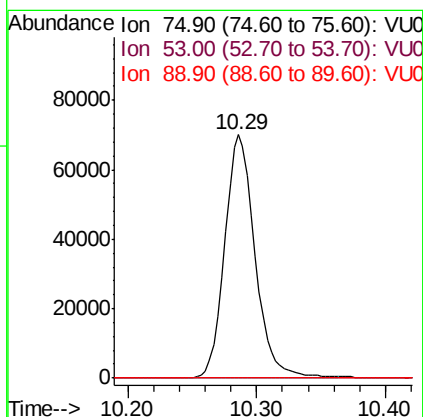
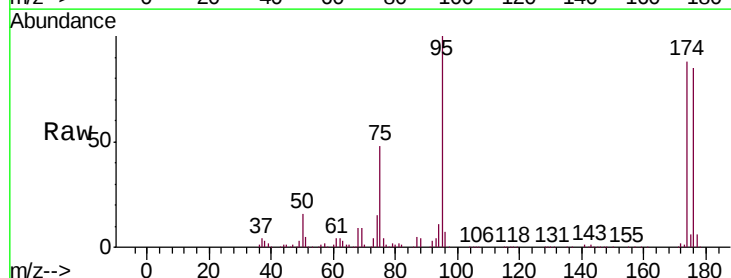
Instrument :
 MSVOA_U
 ClientSampleId :
 T11-B1-(4)

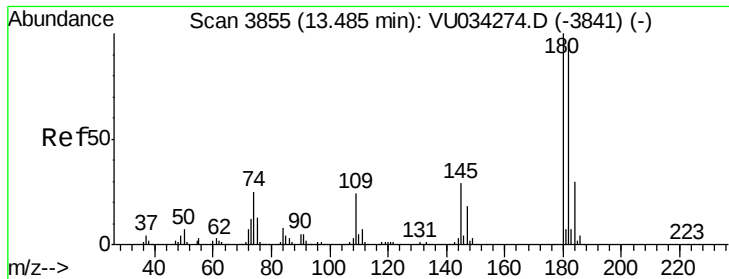
Tgt Ion: 75 Resp: 114007
 Ion Ratio Lower Upper
 75 100
 77 1.1 20.8 62.2#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 78.973 ug/l
 RT: 10.29 min Scan# 2860
 Delta R.T. -0.21 min
 Lab File: VU034487.D
 Acq: 11 Sep 2019 20:15

Tgt Ion: 75 Resp: 114007
 Ion Ratio Lower Upper
 75 100
 53 0.1 0.0 0.0#
 89 0.0 0.0 0.0

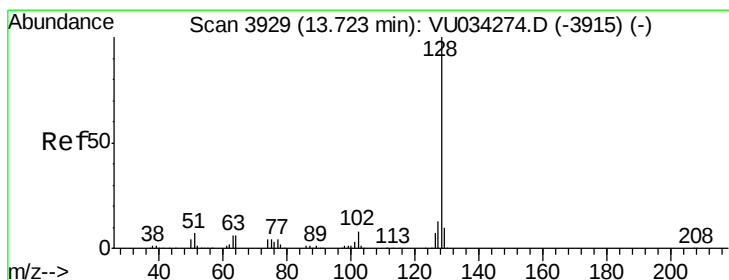
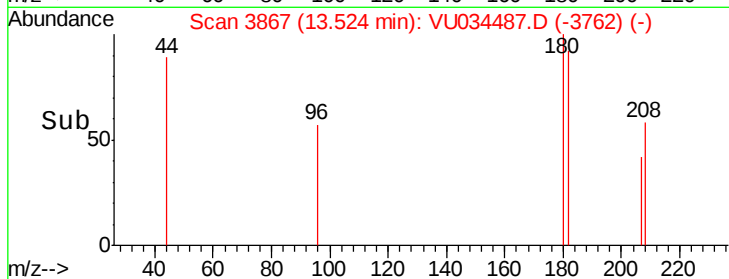
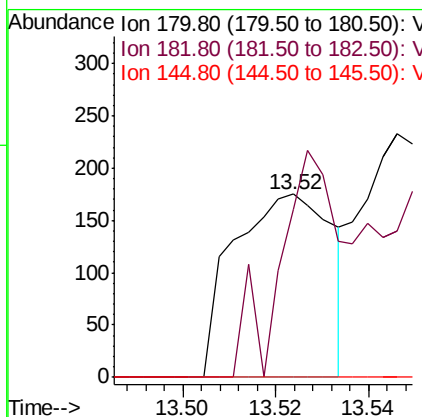
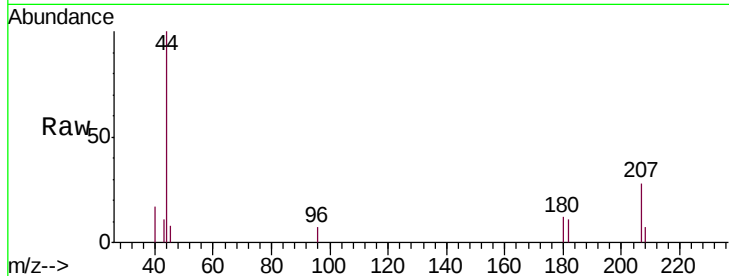




#93
 1,2,4-Trichlorobenzene
 Concen: 3.497 ug/l
 RT: 13.52 min Scan# 3867
 Delta R.T. 0.04 min
 Lab File: VU034487.D
 Acq: 11 Sep 2019 20:15

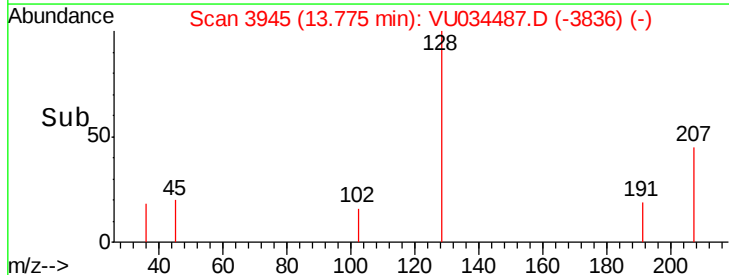
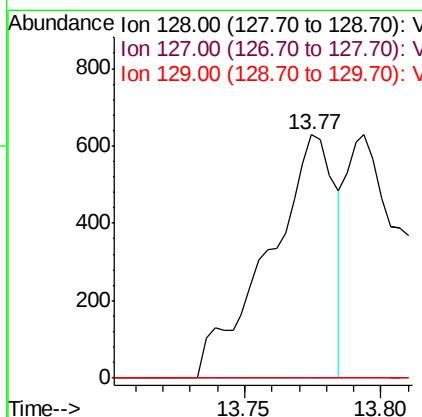
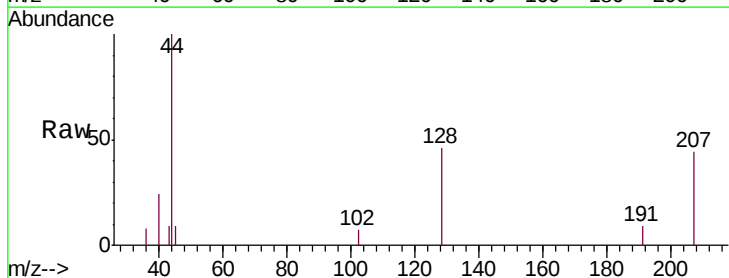
Instrument :
 MSVOA_U
 ClientSampleId :
 T11-B1-(4)

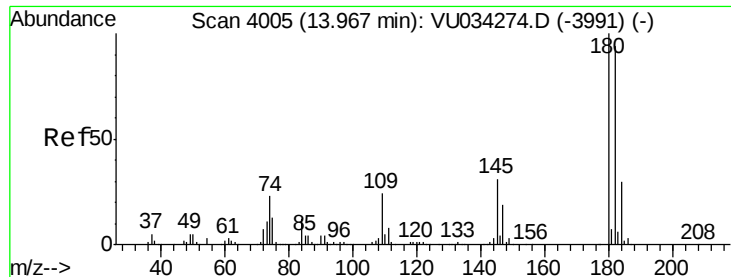
Tgt Ion:180 Resp: 259
 Ion Ratio Lower Upper
 180 100
 182 77.6 47.9 143.8
 145 0.0 14.4 43.0#



#95
 Naphthalene
 Concen: 4.032 ug/l
 RT: 13.77 min Scan# 3945
 Delta R.T. 0.05 min
 Lab File: VU034487.D
 Acq: 11 Sep 2019 20:15

Tgt Ion:128 Resp: 1060
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.6 15.8#
 129 0.0 8.4 12.6#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.759 ug/l
 RT: 14.00 min Scan# 4014
 Delta R.T. 0.03 min
 Lab File: VU034487.D
 Acq: 11 Sep 2019 20:15

Instrument :
 MSVOA_U
 ClientSampleId :
 T11-B1-(4)

Tgt Ion:180 Resp: 647
 Ion Ratio Lower Upper
 180 100
 182 63.2 48.4 145.0
 145 0.0 15.4 46.4#

