

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090719\
 Data File : VU034331.D
 Acq On : 06 Sep 2019 15:25
 Operator : JC/SP
 Sample : K4700-02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 06 17:11:31 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

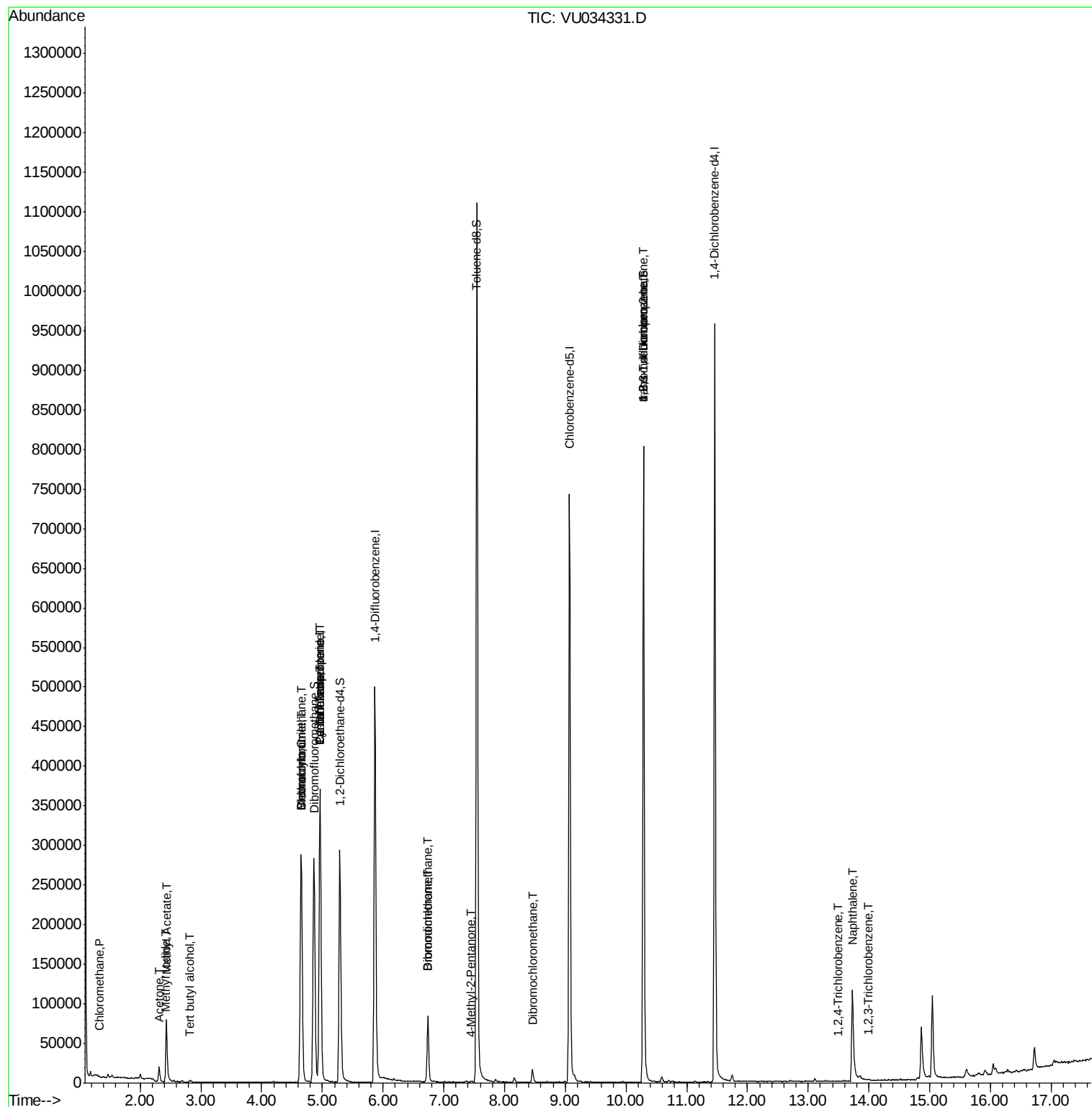
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	309347	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	465753	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	445922	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	278659	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	232934	49.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.54%	
35) Dibromofluoromethane	4.86	113	204905	47.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.56%	
50) Toluene-d8	7.55	98	784149	48.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.32%	
62) 4-Bromofluorobenzene	10.29	95	283114	45.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.08%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.32	50	1058	0.217	ug/l	94
5) Bromomethane	1.62	94	586	Below Cal	#	62
6) Chloroethane	1.68	64	220	Below Cal	#	43
10) Methyl Iodide	2.41	142	208	3.905	ug/l #	43
11) Tert butyl alcohol	2.82	59	2023	2.046	ug/l #	73
16) Acetone	2.31	43	20491	8.460	ug/l	99
18) Methyl Acetate	2.43	43	17754	3.012	ug/l #	52
20) Methylene Chloride	2.69	84	784	Below Cal	#	90
28) Bromochloromethane	4.65	49	19473	5.650	ug/l #	11
30) Chloroform	4.65	83	285907	37.534	ug/l	98
31) Cyclohexane	4.96	56	4733	0.863	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	19787	3.917	ug/l #	48
38) Carbon Tetrachloride	4.96	117	28156	5.221	ug/l #	16
41) Methacrylonitrile	4.65	41	1136	0.357	ug/l #	22
46) Dibromomethane	6.74	93	1748	0.584	ug/l #	1
47) Bromodichloromethane	6.74	83	59246	9.623	ug/l	99
51) 4-Methyl-2-Pentanone	7.45	43	1732	0.269	ug/l #	34
60) Dibromochloromethane	8.46	129	9669	1.942	ug/l	98
76) 1,2,3-Trichloropropane	10.29	75	130419	21.441	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	130419	72.105	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.50	180	285	3.492	ug/l #	48
95) Naphthalene	13.73	128	140787	10.945	ug/l	98
96) 1,2,3-Trichlorobenzene	13.98	180	367	2.693	ug/l #	24

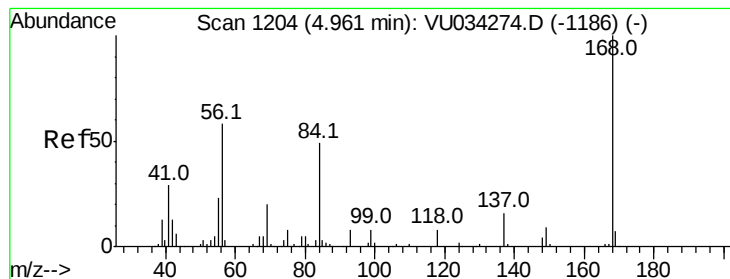
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_U
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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: VU034331.D

Acq: 06 Sep 2019 15:25

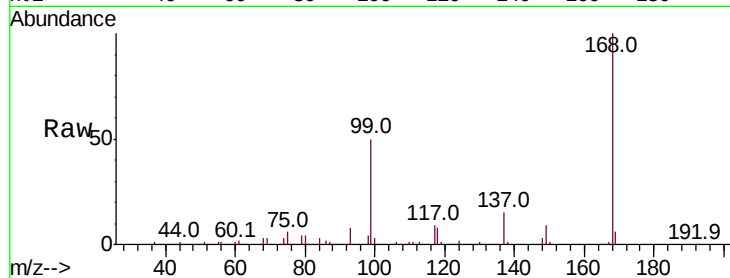
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 309347

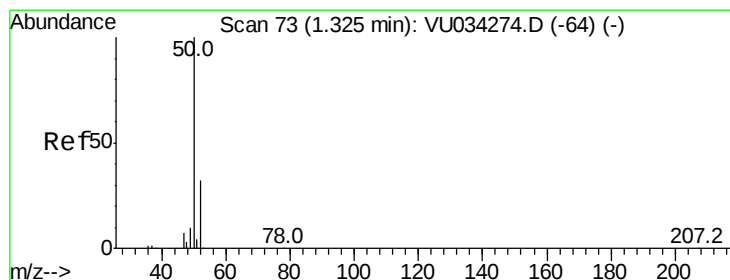
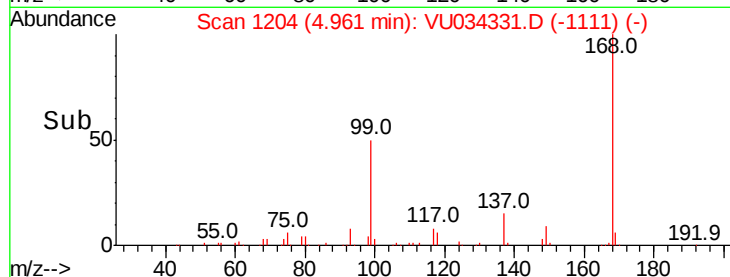
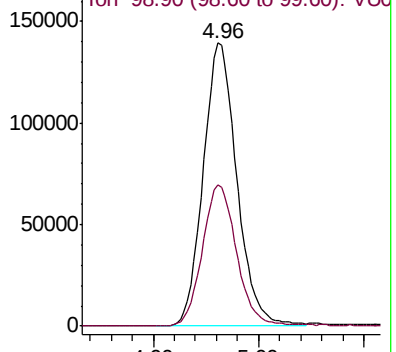
Ion Ratio Lower Upper

168 100

99 49.9 41.6 62.4



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



#3

Chloromethane

Concen: 0.217 ug/l

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034331.D

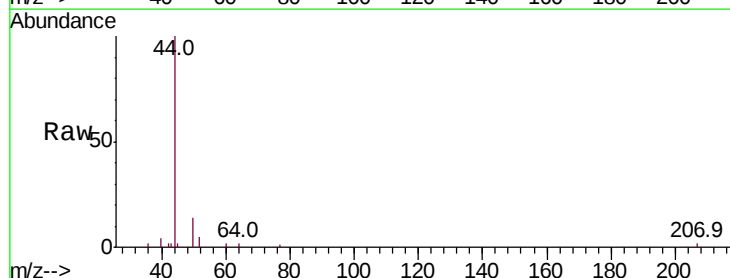
Acq: 06 Sep 2019 15:25

Tgt Ion: 50 Resp: 1058

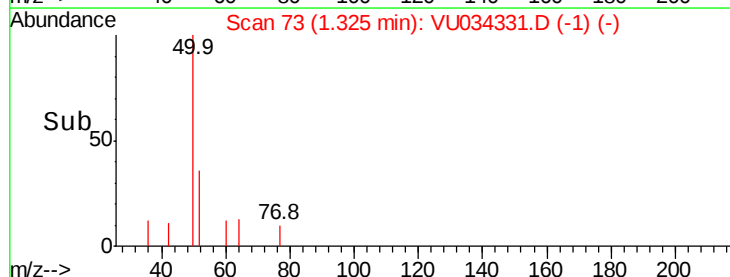
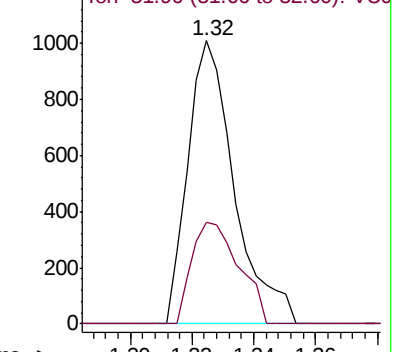
Ion Ratio Lower Upper

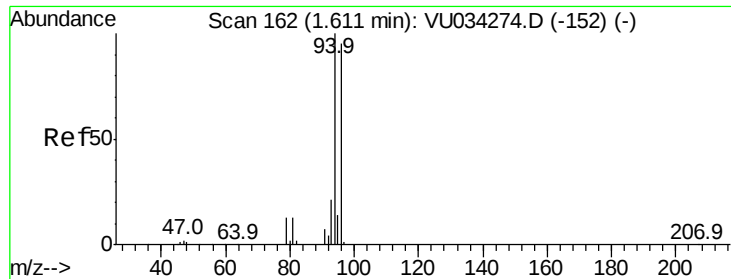
50 100

52 35.8 25.8 38.6



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





#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 166

Delta R.T. 0.01 min

Lab File: VU034331.D

Acq: 06 Sep 2019 15:25

Instrument :

MSVOA_U

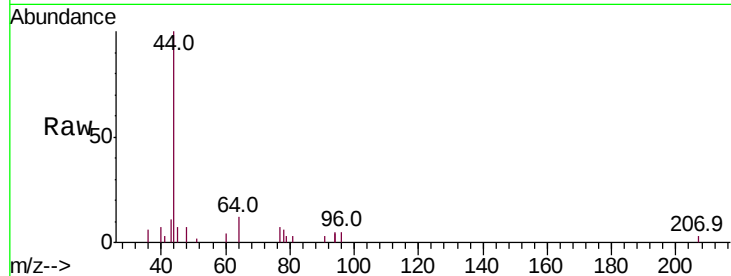
ClientSampled :

Tot Ion: 94 Resp: 586

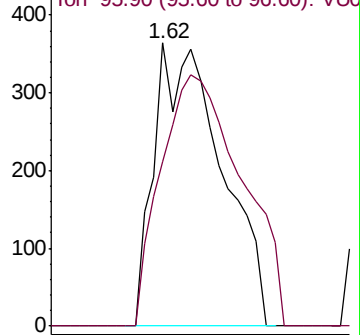
Ion Ratio Lower Upper

94 100

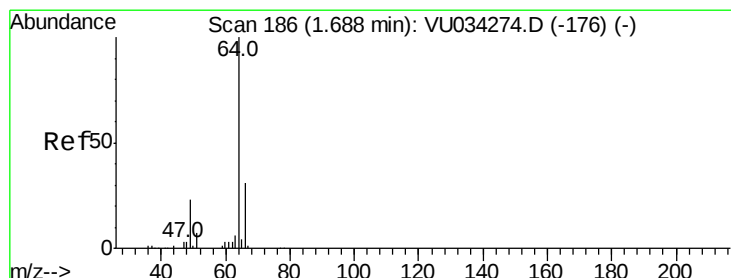
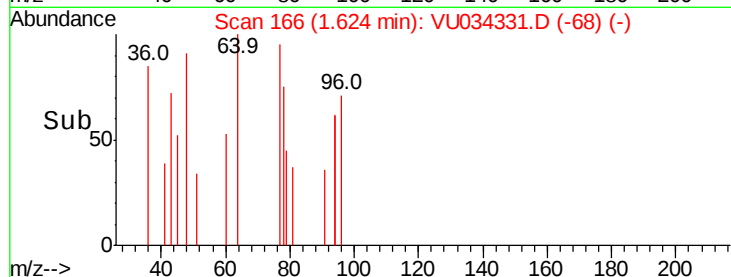
96 58.2 75.7 113.5#



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



Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.68 min Scan# 182

Delta R.T. -0.01 min

Lab File: VU034331.D

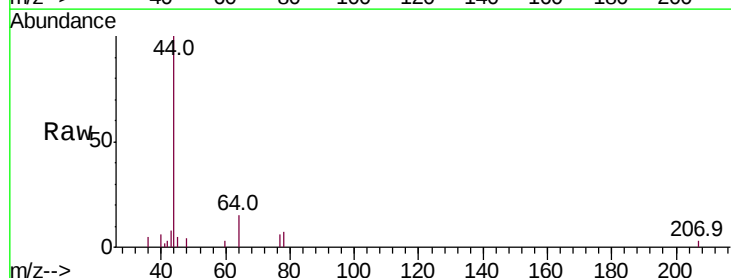
Acq: 06 Sep 2019 15:25

Tgt Ion: 64 Resp: 220

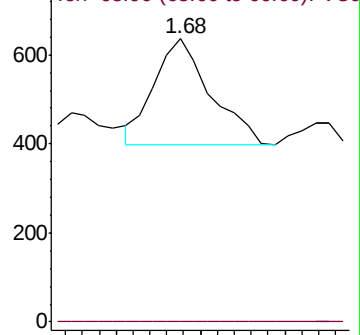
Ion Ratio Lower Upper

64 100

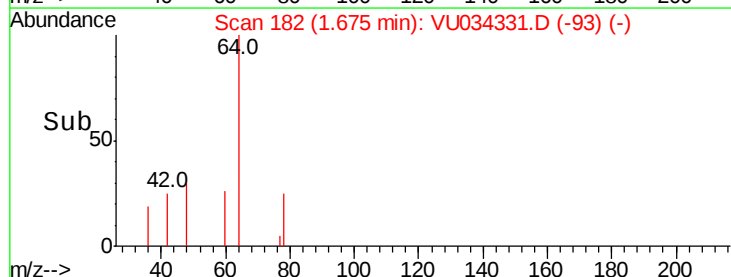
66 0.0 25.0 37.6#

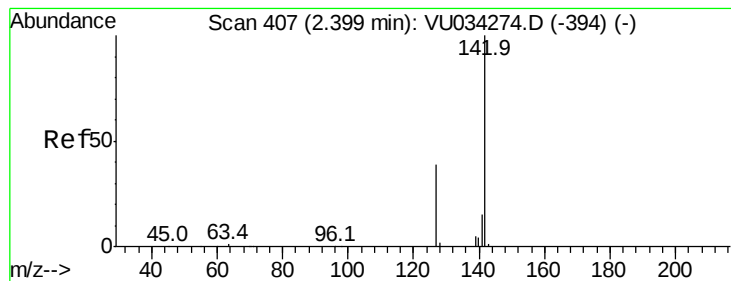


Abundance Ion 63.90 (63.60 to 64.60): VU034274.D (-176) (-)



Time-->





#10

Methyl Iodide

Concen: 3.905 ug/l

RT: 2.41 min Scan# 410

Delta R.T. 0.01 min

Lab File: VU034331.D

Acq: 06 Sep 2019 15:25

Instrument :

MSVOA_U

ClientSampleId :

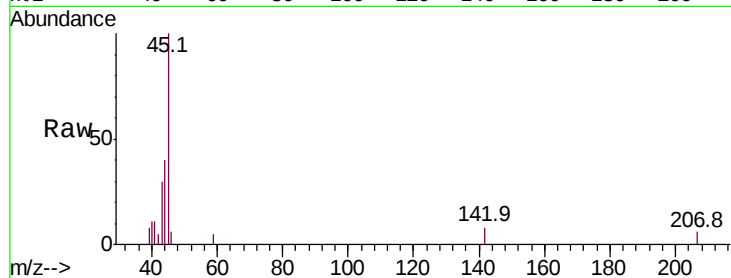
Tot Ion:142 Resp: 208

Ion Ratio Lower Upper

142 100

127 0.0 32.1 48.1#

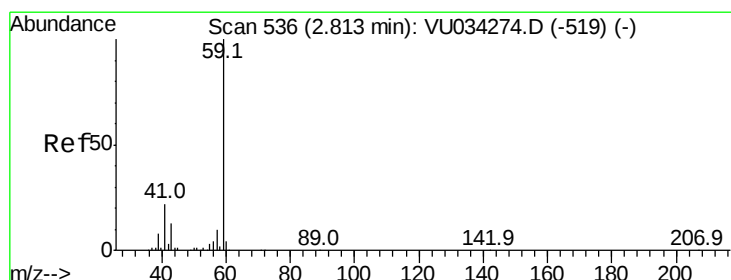
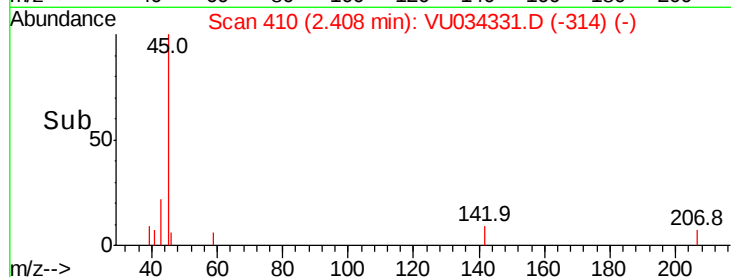
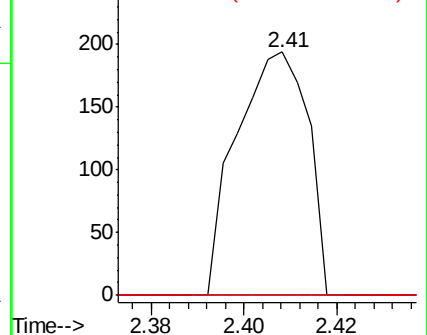
141 0.0 11.5 17.3#



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: 2.046 ug/l

RT: 2.82 min Scan# 538

Delta R.T. 0.01 min

Lab File: VU034331.D

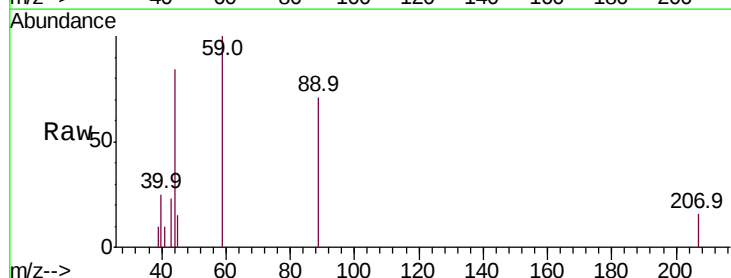
Acq: 06 Sep 2019 15:25

Tgt Ion: 59 Resp: 2023

Ion Ratio Lower Upper

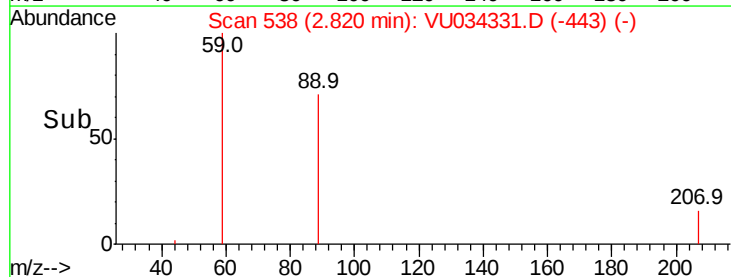
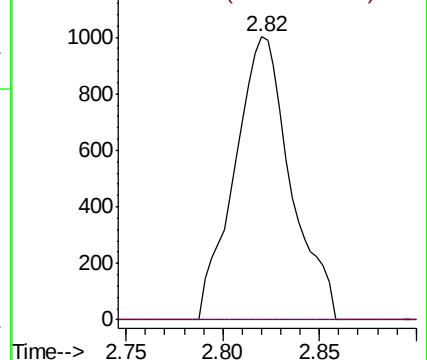
59 100

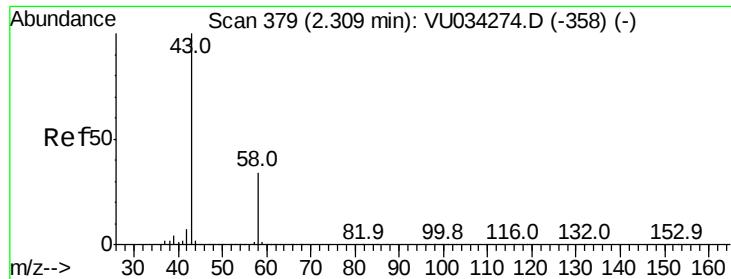
57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#16

Acetone

Concen: 8.460 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034331.D

Acq: 06 Sep 2019 15:25

Instrument :

MSVOA_U

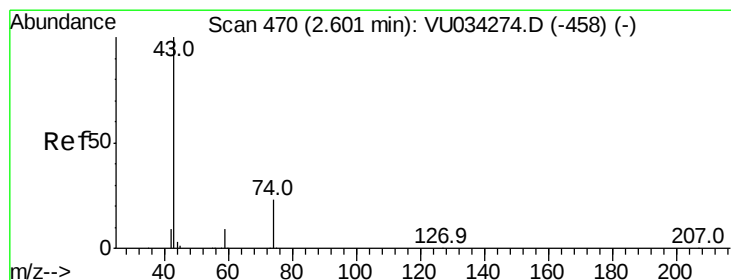
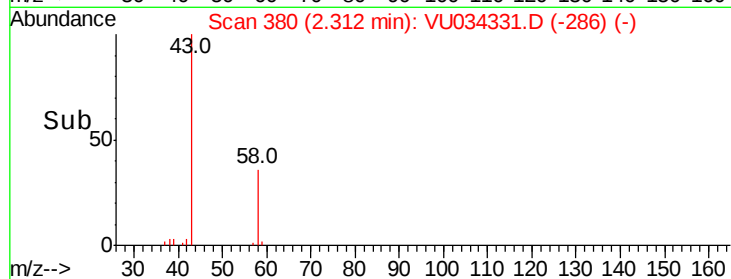
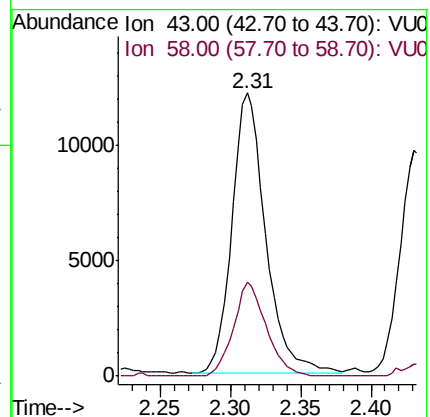
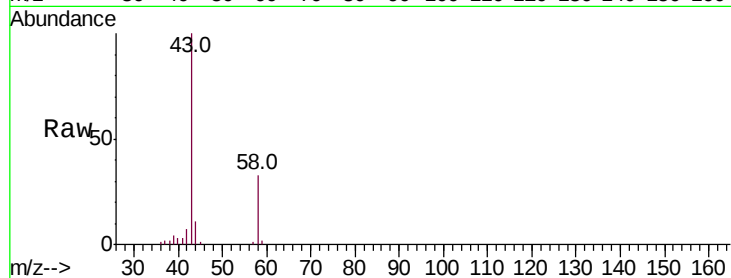
ClientSampleId :

Tot Ion: 43 Resp: 20491

Ion Ratio Lower Upper

43 100

58 33.7 27.6 41.4



#18

Methyl Acetate

Concen: 3.012 ug/l

RT: 2.43 min Scan# 417

Delta R.T. -0.17 min

Lab File: VU034331.D

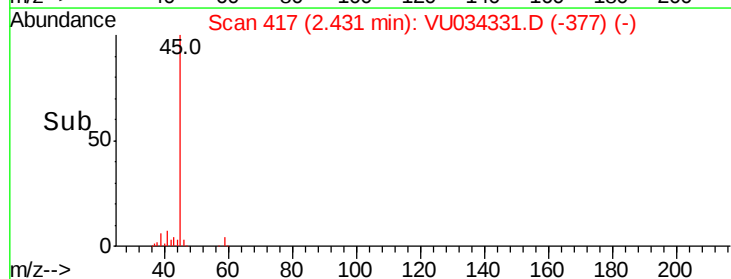
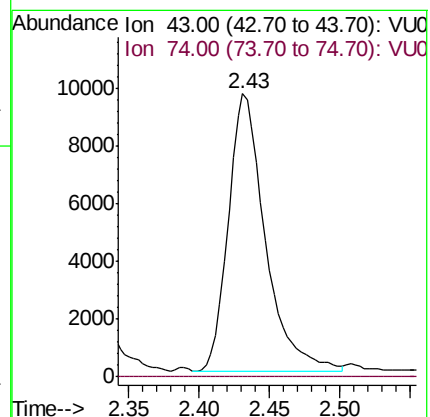
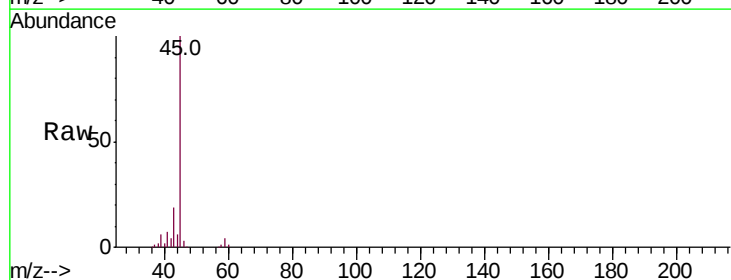
Acq: 06 Sep 2019 15:25

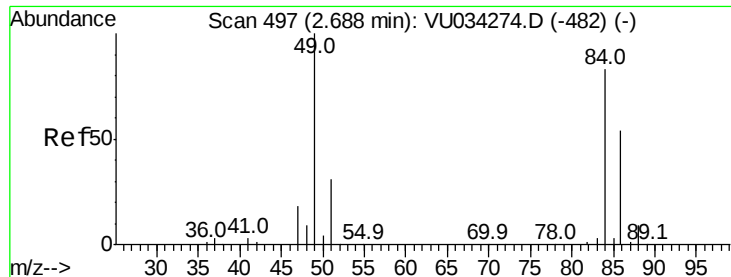
Tgt Ion: 43 Resp: 17754

Ion Ratio Lower Upper

43 100

74 0.0 18.9 28.3#

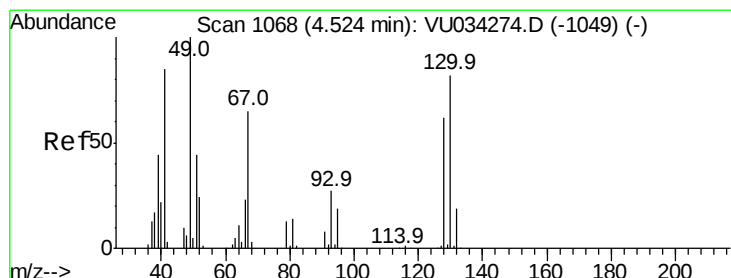
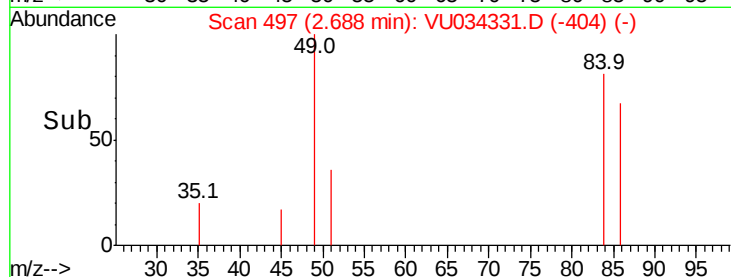
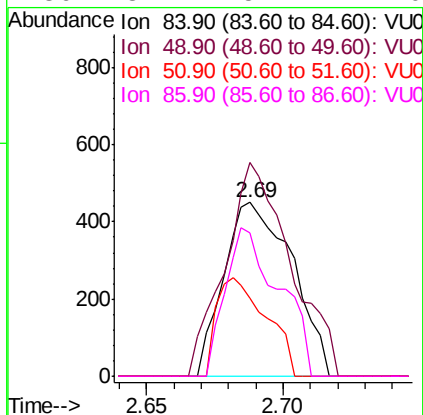
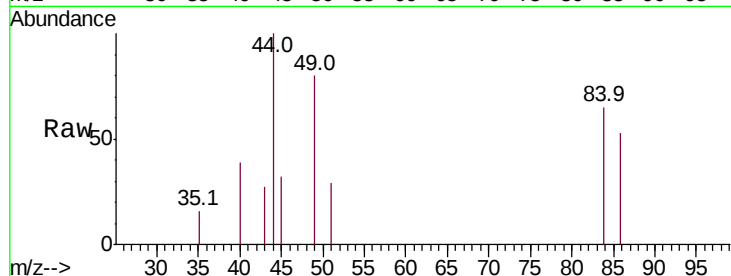




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.69 min Scan# 497
Delta R.T. -0.00 min
Lab File: VU034331.D
Acq: 06 Sep 2019 15:25

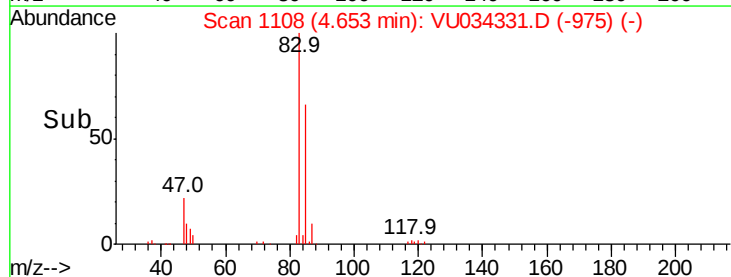
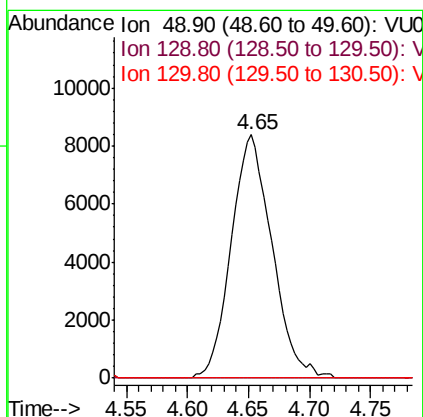
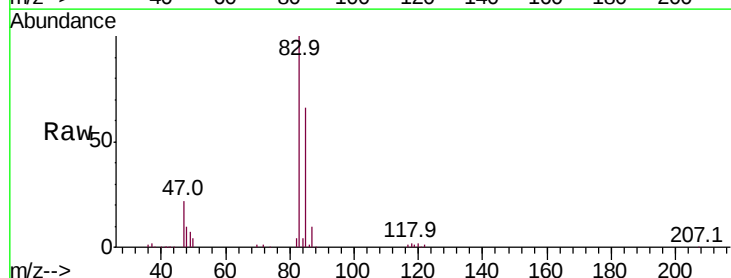
Instrument :
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ClientSampleId :

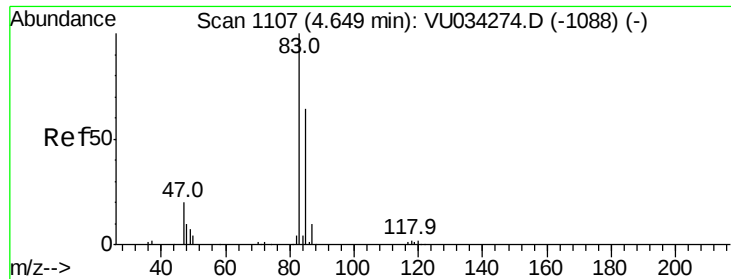
Tot Ion: 84 Resp: 784
Ion Ratio Lower Upper
84 100
49 123.1 96.0 144.0
51 44.9 30.0 45.0
86 82.2 51.4 77.0#



#28
Bromochloromethane
Concen: 5.650 ug/l
RT: 4.65 min Scan# 1108
Delta R.T. 0.13 min
Lab File: VU034331.D
Acq: 06 Sep 2019 15:25

Tgt Ion: 49 Resp: 19473
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.8
130 0.0 65.2 97.8#

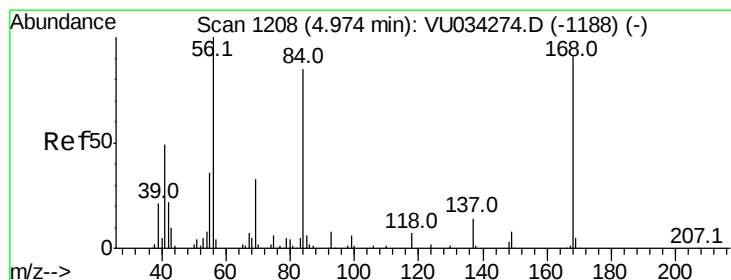
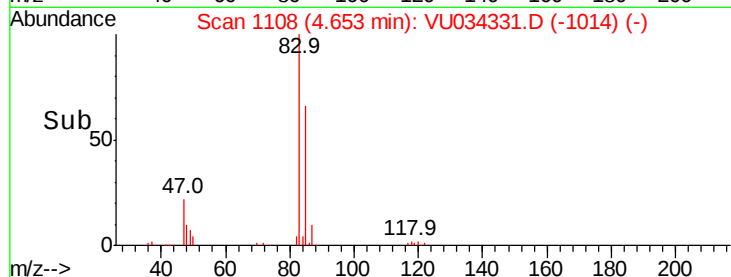
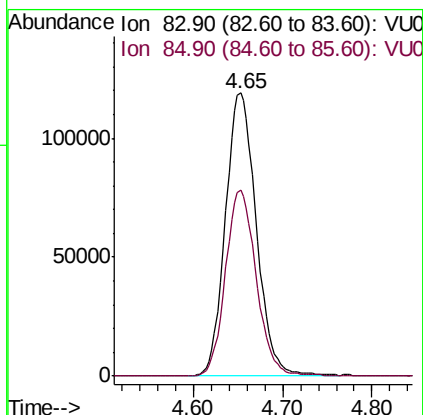
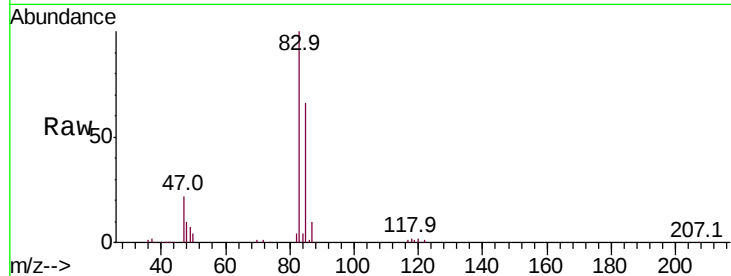




#30
Chloroform
Concen: 37.534 ug/l
RT: 4.65 min Scan# 1108
Delta R.T. 0.00 min
Lab File: VU034331.D
Acq: 06 Sep 2019 15:25

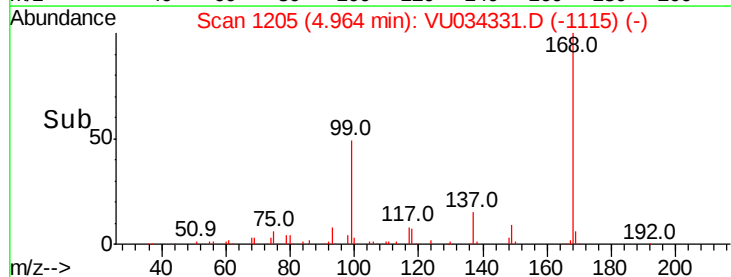
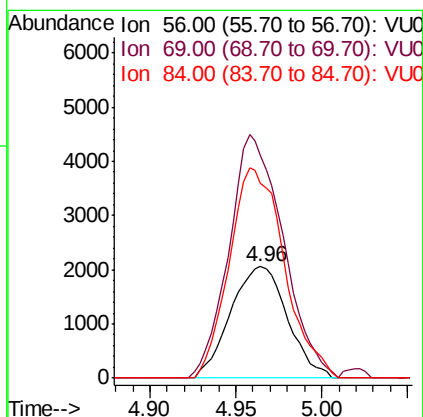
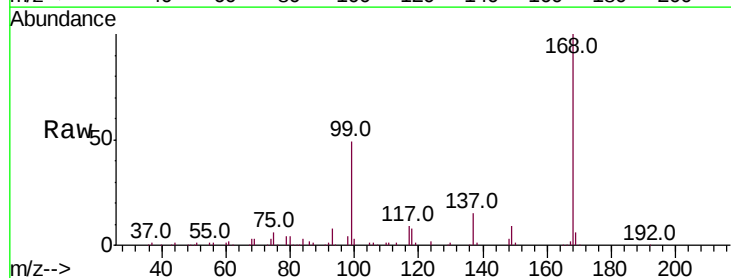
Instrument :
MSVOA_U
ClientSampled :

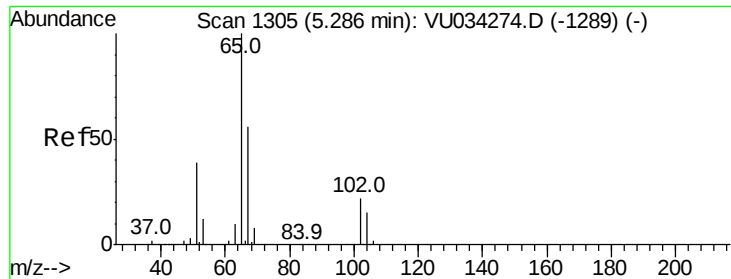
Tot Ion: 83 Resp: 285907
Ion Ratio Lower Upper
83 100
85 65.6 51.5 77.3



#31
Cyclohexane
Concen: 0.863 ug/l
RT: 4.96 min Scan# 1205
Delta R.T. -0.01 min
Lab File: VU034331.D
Acq: 06 Sep 2019 15:25

Tgt Ion: 56 Resp: 4733
Ion Ratio Lower Upper
56 100
69 199.8 26.7 40.1#
84 175.1 68.2 102.4#

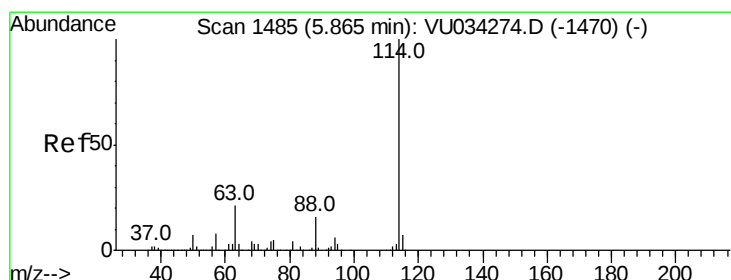
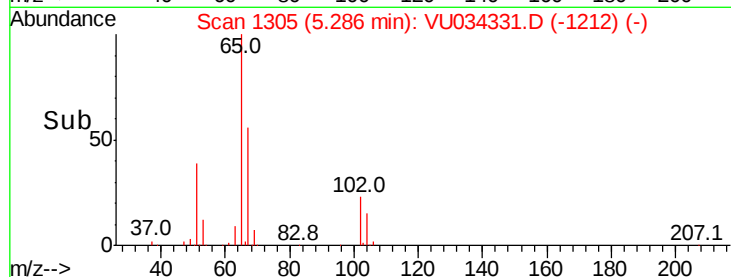
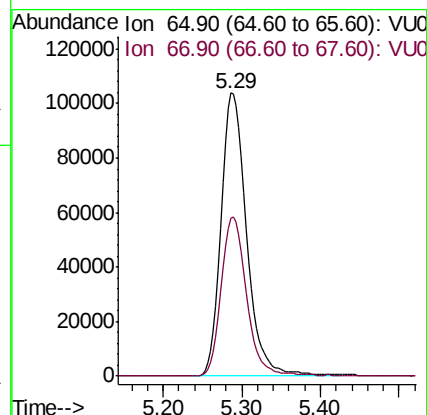
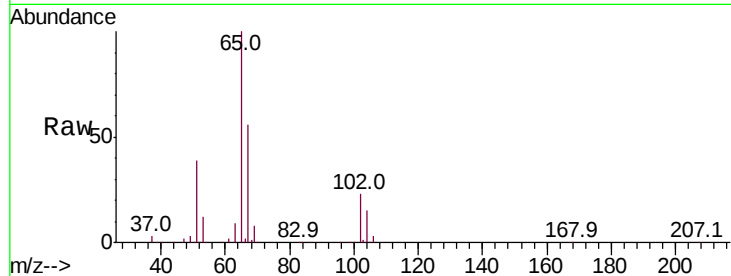




#33
 1,2-Dichloroethane-d4
 Concen: 49.767 ug/l
 RT: 5.29 min Scan# 1305
 Delta R.T. -0.00 min
 Lab File: VU034331.D
 Acq: 06 Sep 2019 15:25

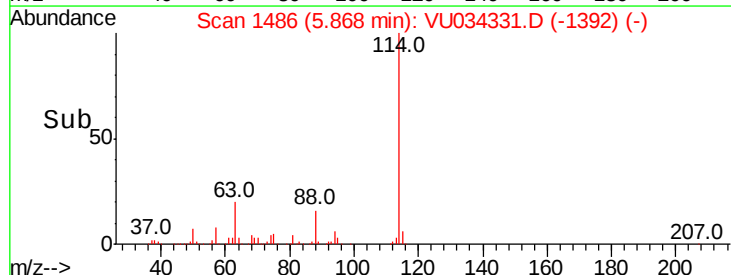
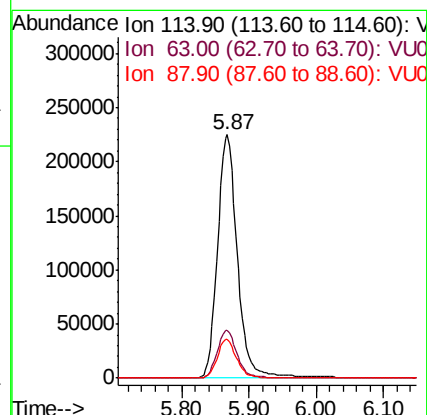
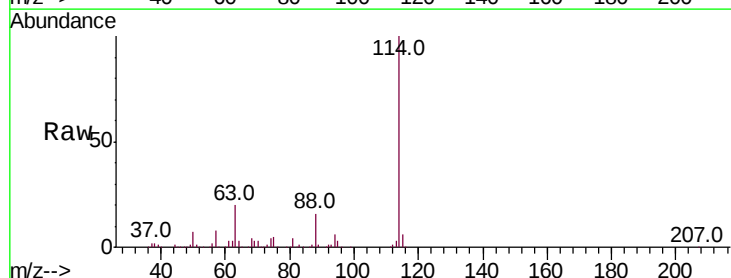
Instrument :
 MSVOA_U
 ClientSampleId :

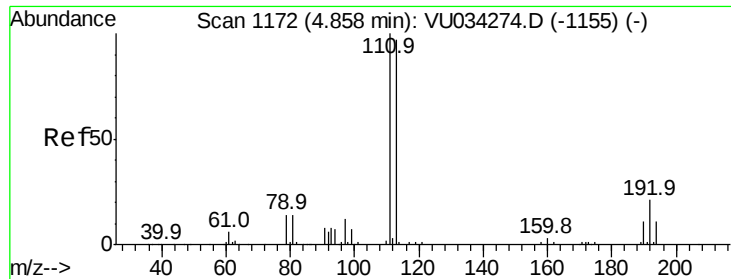
Tot Ion: 65 Resp: 232934
 Ion Ratio Lower Upper
 65 100
 67 55.5 0.0 112.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034331.D
 Acq: 06 Sep 2019 15:25

Tgt Ion: 114 Resp: 465753
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 42.4
 88 15.7 0.0 32.4

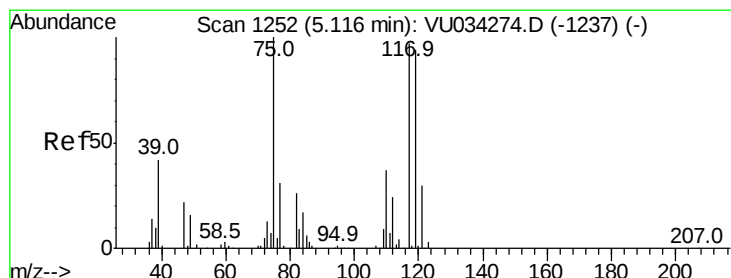
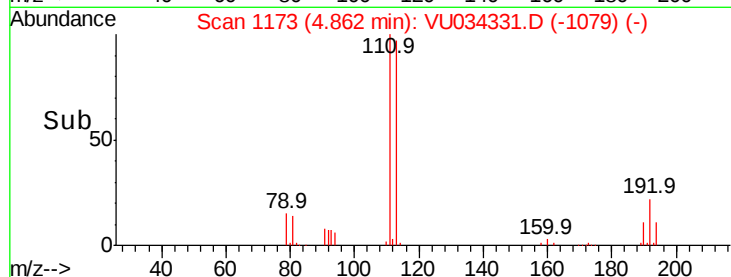
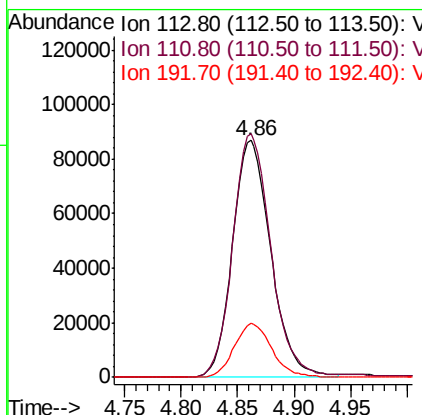
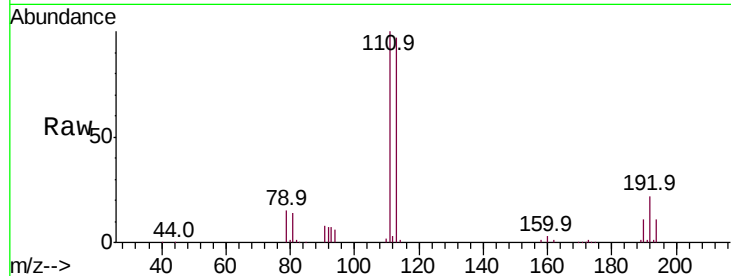




#35
 Dibromofluoromethane
 Concen: 47.280 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034331.D
 Acq: 06 Sep 2019 15:25

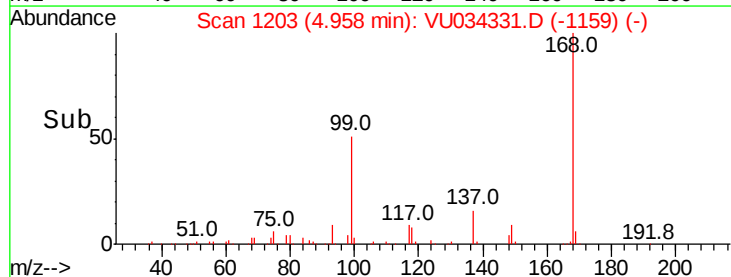
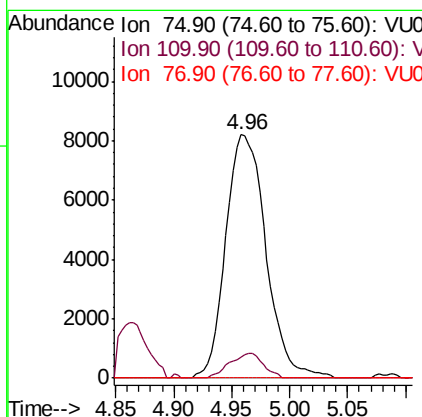
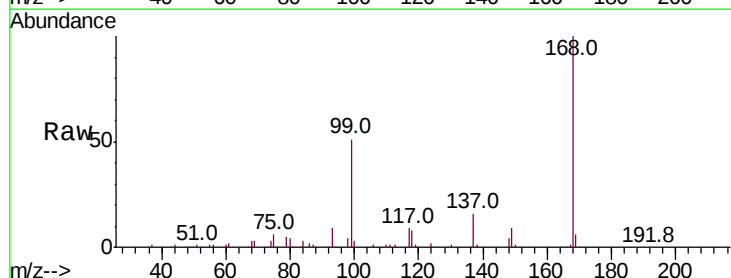
Instrument :
 MSVOA_U
 ClientSampled :

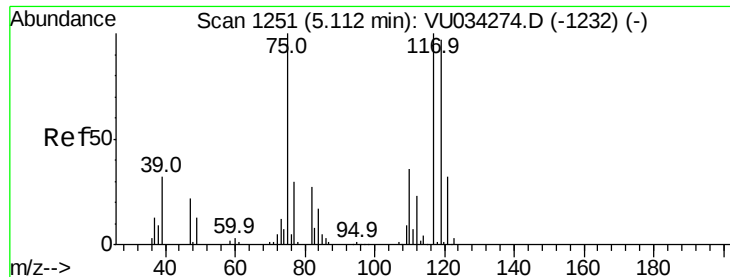
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.5	122.3
192	22.3	17.8	26.8



#36
 1,1-Dichloropropene
 Concen: 3.917 ug/l
 RT: 4.96 min Scan# 1203
 Delta R.T. -0.16 min
 Lab File: VU034331.D
 Acq: 06 Sep 2019 15:25

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.5	18.3	54.9#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 5.221 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.15 min

Lab File: VU034331.D

Acq: 06 Sep 2019 15:25

Instrument :

MSVOA_U

ClientSampleId :

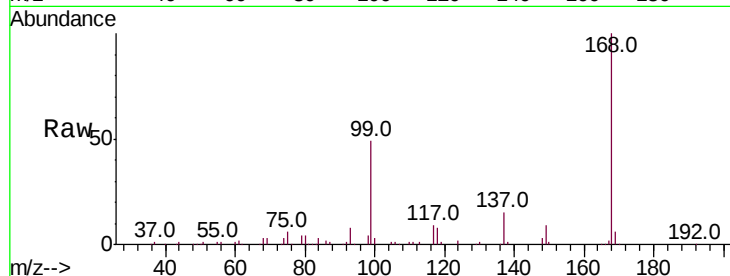
Tot Ion:117 Resp: 28156

Ion Ratio Lower Upper

117 100

119 5.9 77.8 116.6#

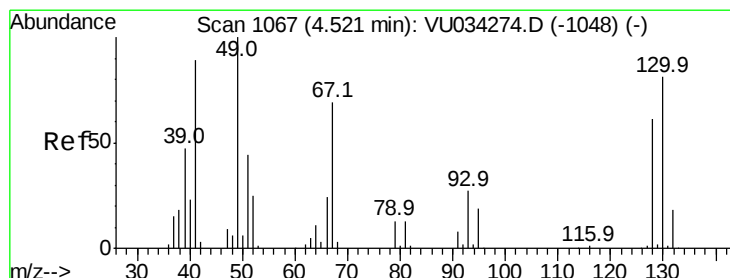
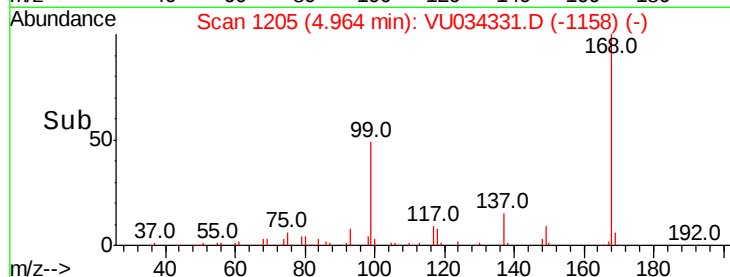
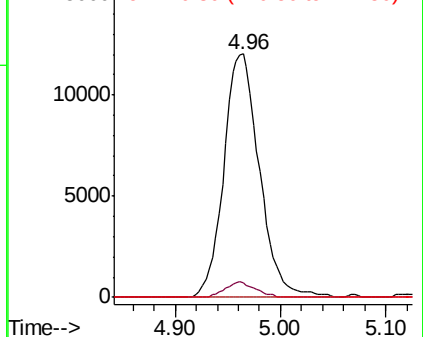
121 0.0 25.2 37.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 0.357 ug/l

RT: 4.65 min Scan# 1106

Delta R.T. 0.13 min

Lab File: VU034331.D

Acq: 06 Sep 2019 15:25

Tgt Ion: 41 Resp: 1136

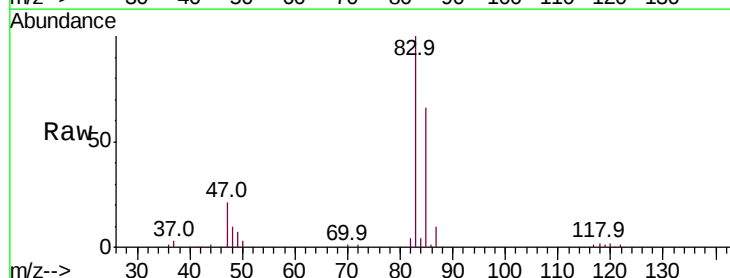
Ion Ratio Lower Upper

41 100

39 0.0 41.0 61.4#

67 0.0 62.4 93.6#

52 0.0 23.6 35.4#

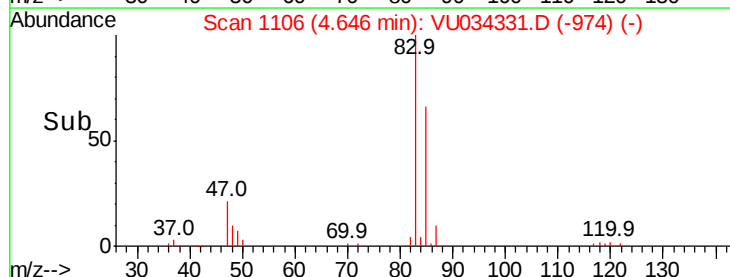
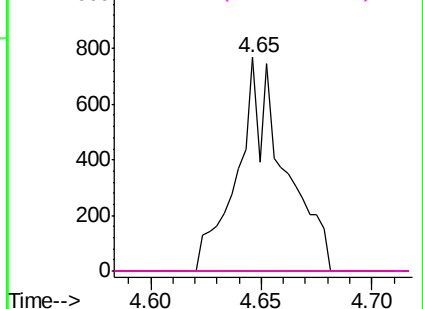


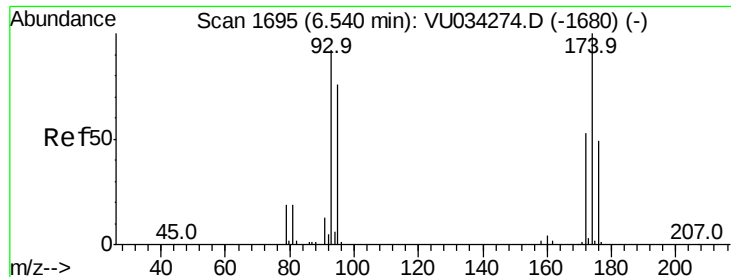
Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 67.00 (66.70 to 67.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#46

Dibromomethane

Concen: 0.584 ug/l

RT: 6.74 min Scan# 1756

Delta R.T. 0.20 min

Lab File: VU034331.D

Acq: 06 Sep 2019 15:25

Instrument :

MSVOA_U

ClientSampleId :

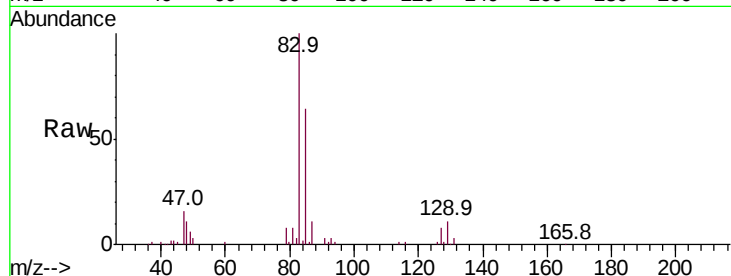
Tot Ion: 93 Resp: 1748

Ion Ratio Lower Upper

93 100

95 0.0 66.5 99.7#

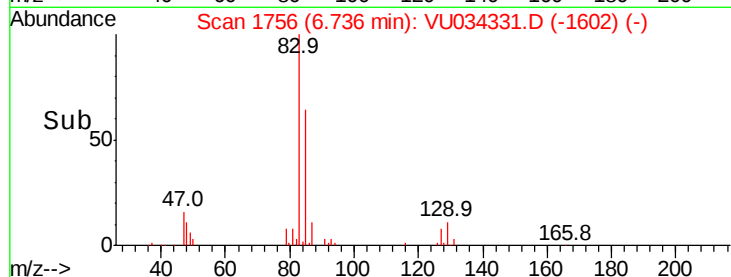
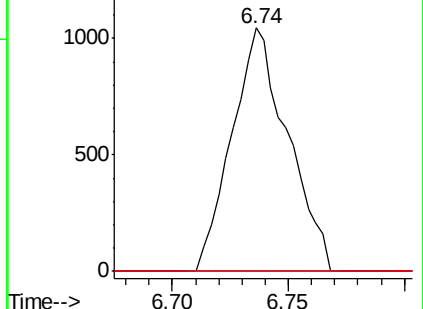
174 0.0 87.8 131.6#



Abundance Ion 92.80 (92.50 to 93.50): VU034274.D (-1680) (-)

Ion 94.80 (94.50 to 95.50): VU034274.D (-1680) (-)

Ion 173.70 (173.40 to 174.40): VU034274.D (-1680) (-)



#47

Bromodichloromethane

Concen: 9.623 ug/l

RT: 6.74 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VU034331.D

Acq: 06 Sep 2019 15:25

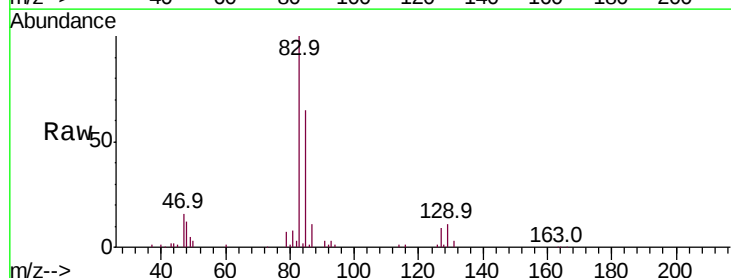
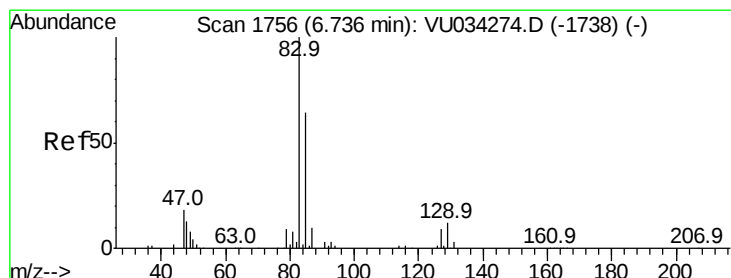
Tgt Ion: 83 Resp: 59246

Ion Ratio Lower Upper

83 100

85 64.5 51.1 76.7

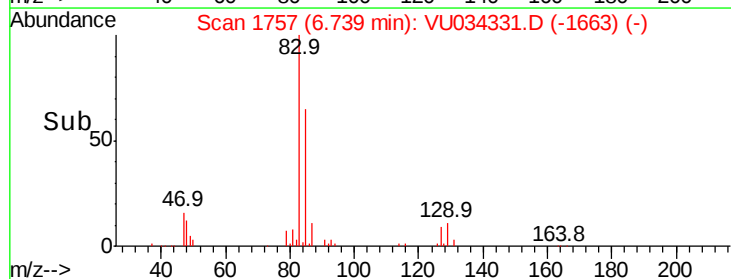
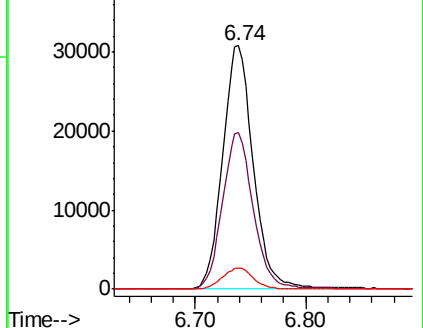
127 8.7 7.2 10.8

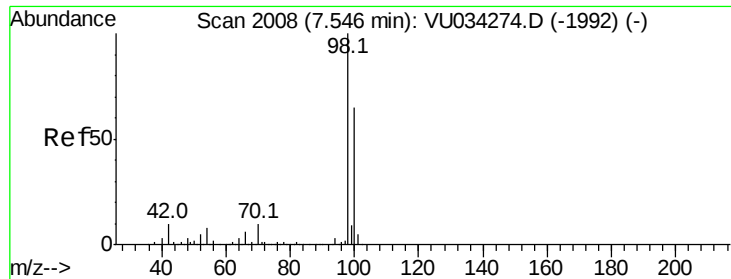


Abundance Ion 82.90 (82.60 to 83.60): VU034274.D (-1738) (-)

Ion 84.90 (84.60 to 85.60): VU034274.D (-1738) (-)

Ion 126.80 (126.50 to 127.50): VU034274.D (-1738) (-)

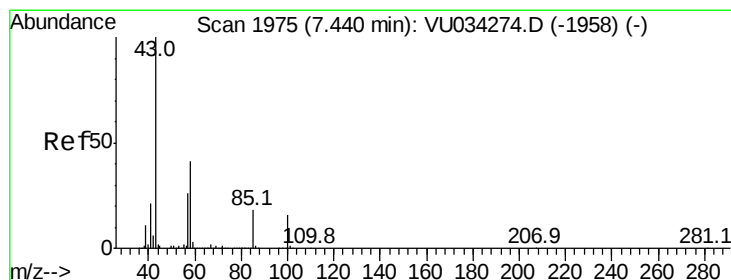
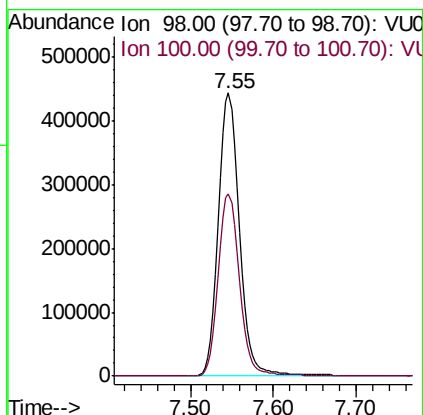
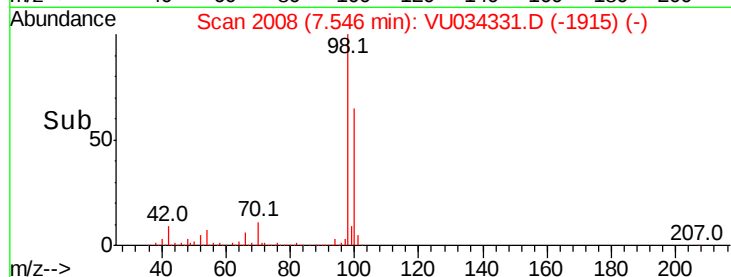
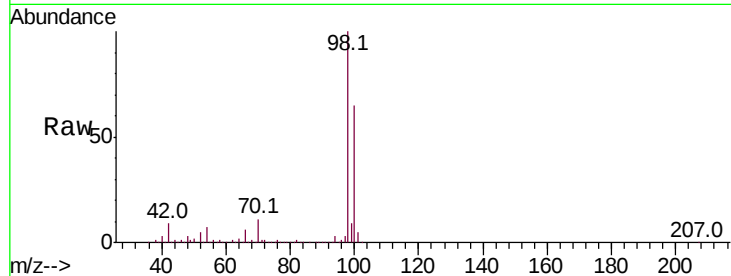




#50
Toluene-d8
Concen: 48.159 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. -0.00 min
Lab File: VU034331.D
Acq: 06 Sep 2019 15:25

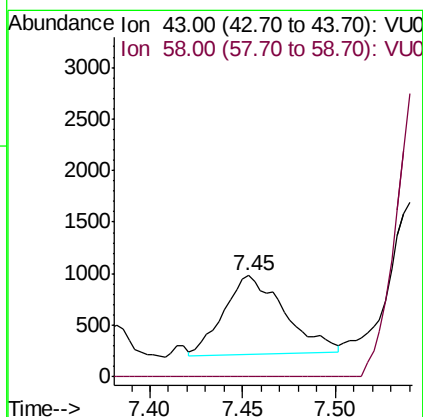
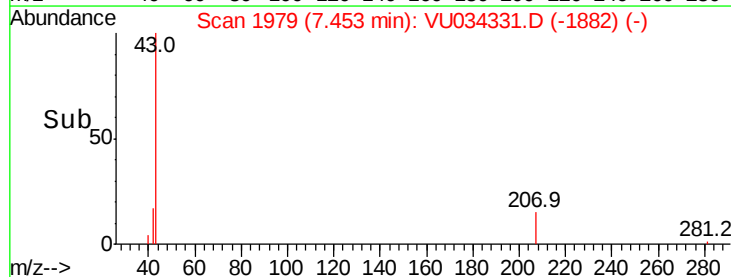
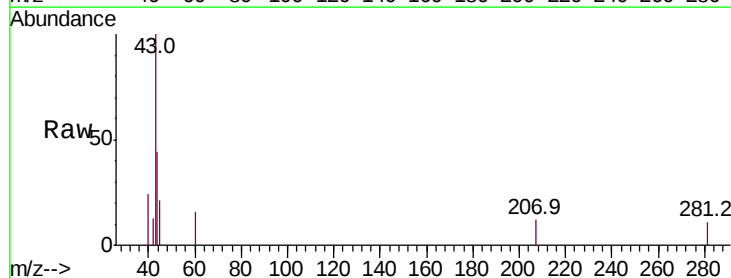
Instrument :
MSVOA_U
ClientSampleId :

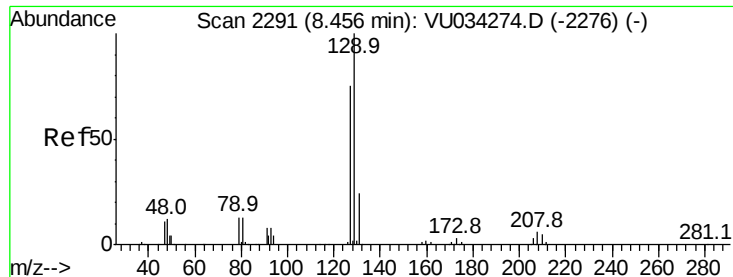
Tot Ion: 98 Resp: 784149
Ion Ratio Lower Upper
98 100
100 65.1 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 0.269 ug/l
RT: 7.45 min Scan# 1979
Delta R.T. 0.01 min
Lab File: VU034331.D
Acq: 06 Sep 2019 15:25

Tgt Ion: 43 Resp: 1732
Ion Ratio Lower Upper
43 100
58 0.0 33.0 49.4#





#60

Dibromochloromethane

Concen: 1.942 ug/l

RT: 8.46 min Scan# 2293

Delta R.T. 0.01 min

Lab File: VU034331.D

Acq: 06 Sep 2019 15:25

Instrument :

MSVOA_U

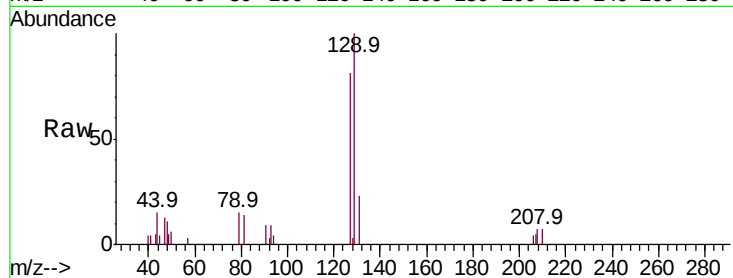
ClientSampled :

Tot Ion:129 Resp: 9669

Ion Ratio Lower Upper

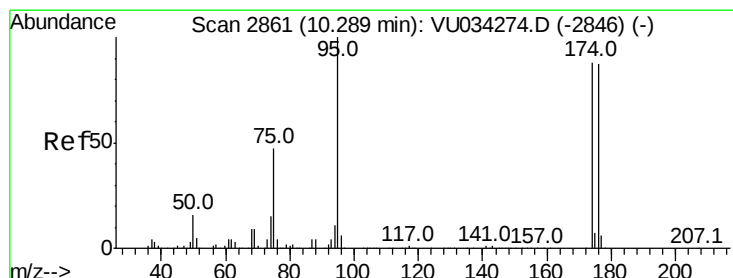
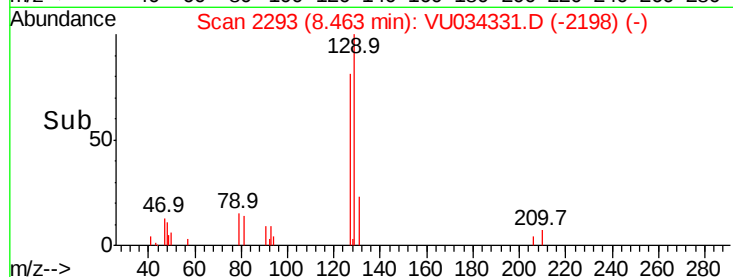
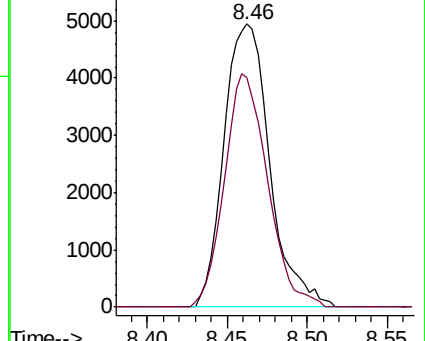
129 100

127 77.7 37.9 113.7



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 45.035 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.00 min

Lab File: VU034331.D

Acq: 06 Sep 2019 15:25

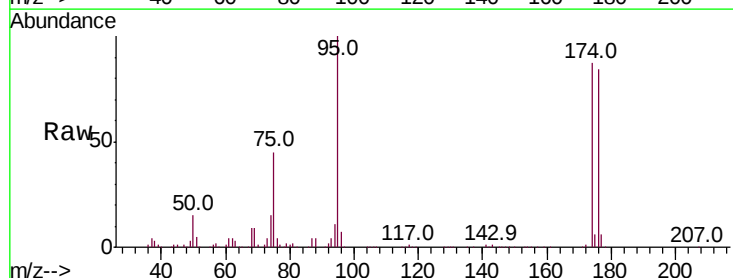
Tgt Ion: 95 Resp: 283114

Ion Ratio Lower Upper

95 100

174 87.4 0.0 175.2

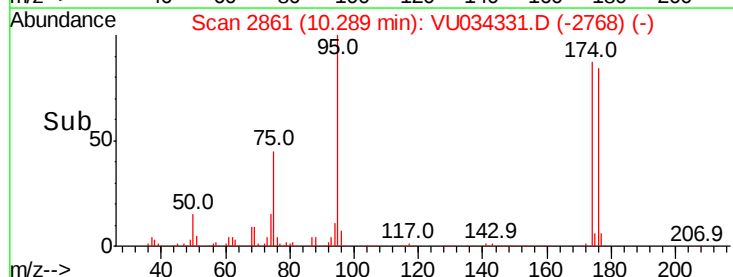
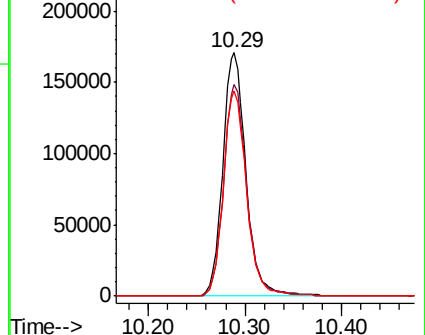
176 84.8 0.0 168.0

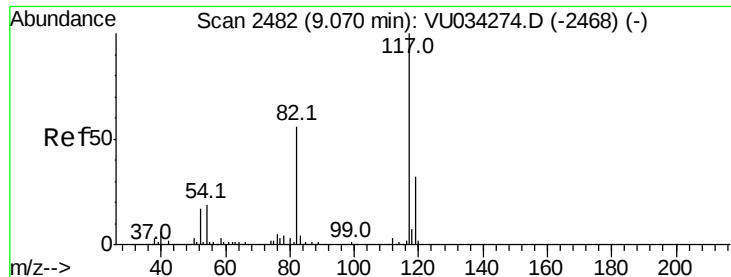


Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

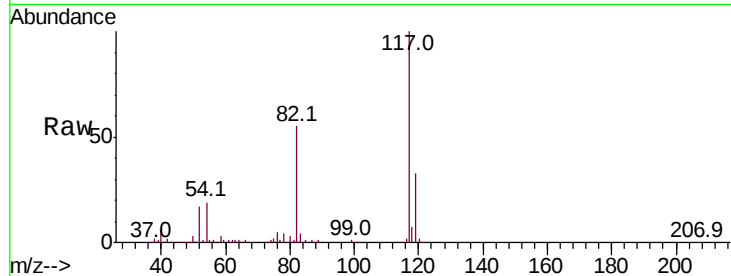




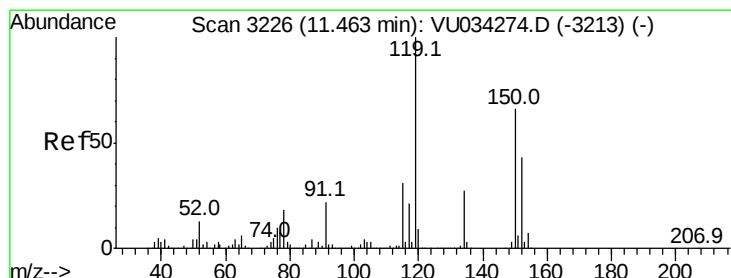
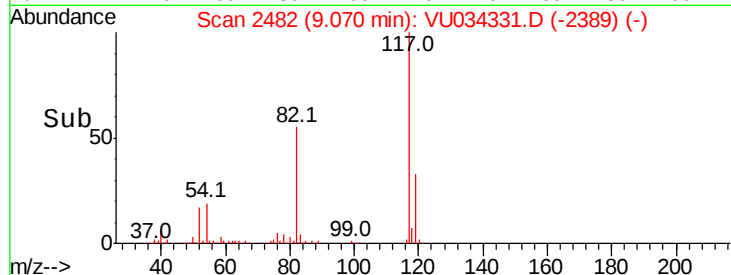
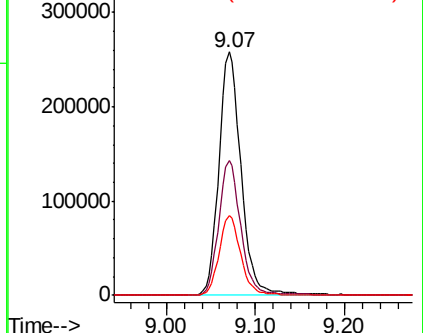
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. -0.00 min
Lab File: VU034331.D
Acq: 06 Sep 2019 15:25

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:117 Resp: 445922
Ion Ratio Lower Upper
117 100
82 55.4 44.6 67.0
119 32.7 25.9 38.9

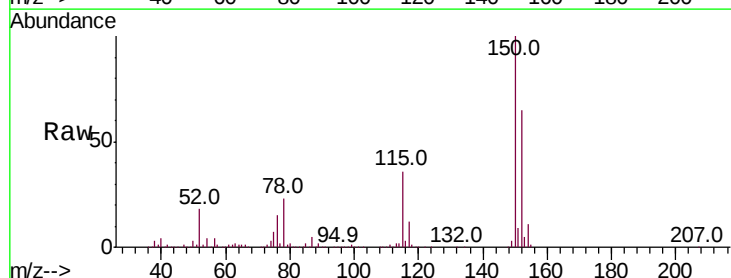


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

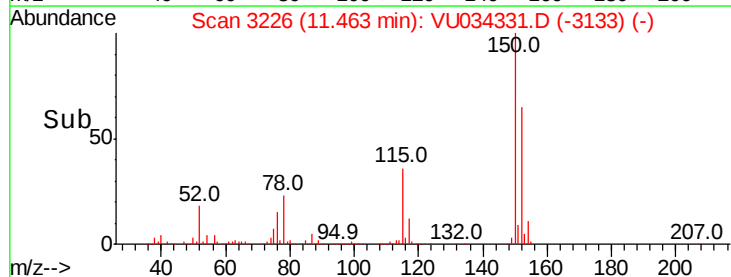
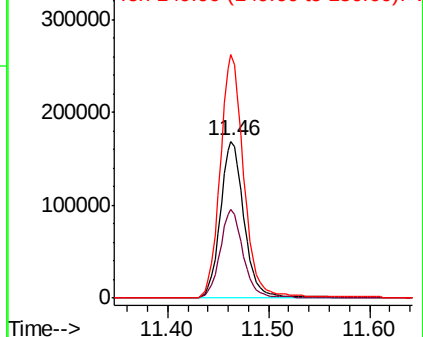


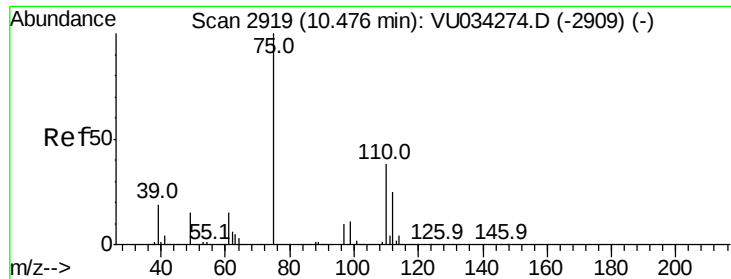
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034331.D
Acq: 06 Sep 2019 15:25

Tgt Ion:152 Resp: 278659
Ion Ratio Lower Upper
152 100
115 54.9 39.1 117.3
150 155.0 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: 21.441 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034331.D

Acq: 06 Sep 2019 15:25

Instrument :

MSVOA_U

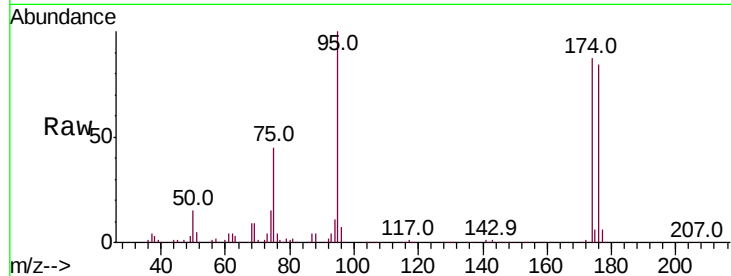
ClientSampled :

Tot Ion: 75 Resp: 130419

Ion Ratio Lower Upper

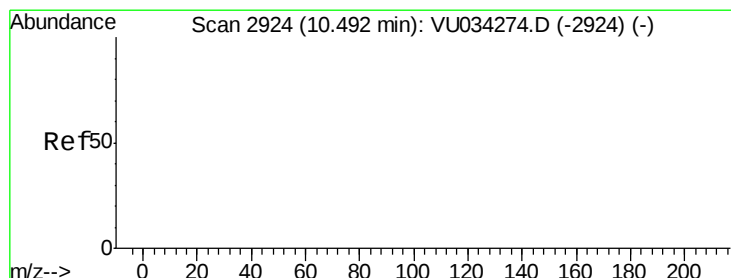
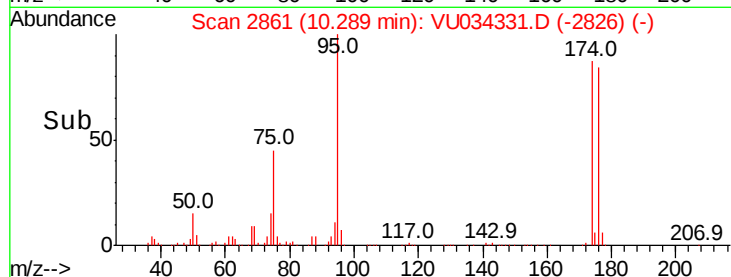
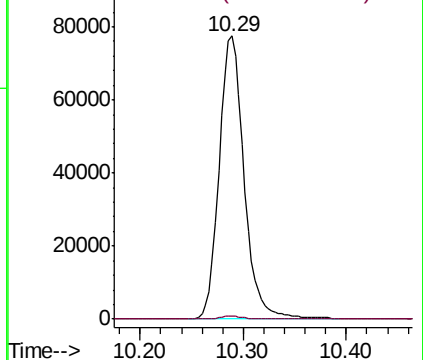
75 100

77 1.1 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: 72.105 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.20 min

Lab File: VU034331.D

Acq: 06 Sep 2019 15:25

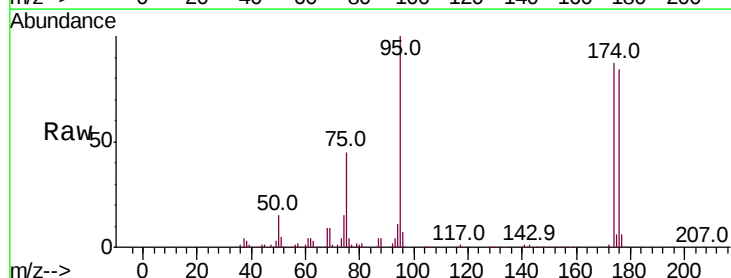
Tgt Ion: 75 Resp: 130419

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

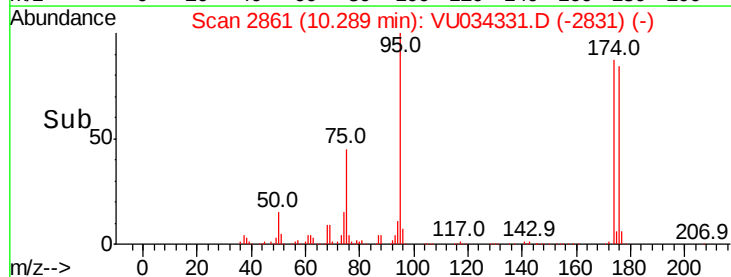
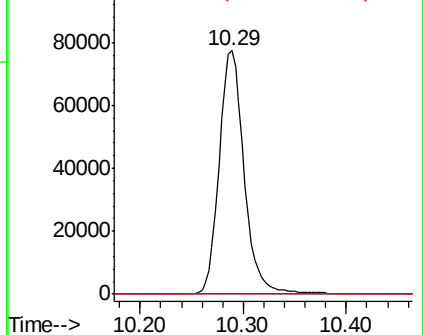
89 0.0 0.0 0.0

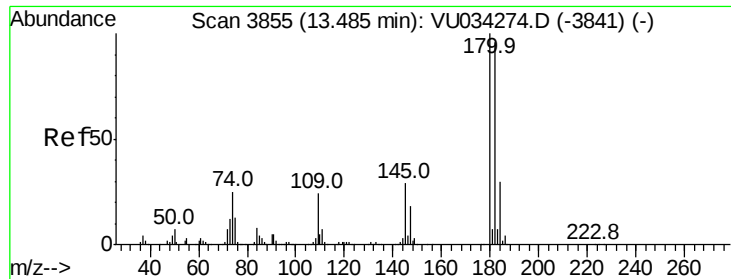


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0





#93

1,2,4-Trichlorobenzene

Concen: 3.492 ug/l

RT: 13.50 min Scan# 3859

Delta R.T. 0.01 min

Lab File: VU034331.D

Acq: 06 Sep 2019 15:25

Instrument :

MSVOA_U

ClientSampleId :

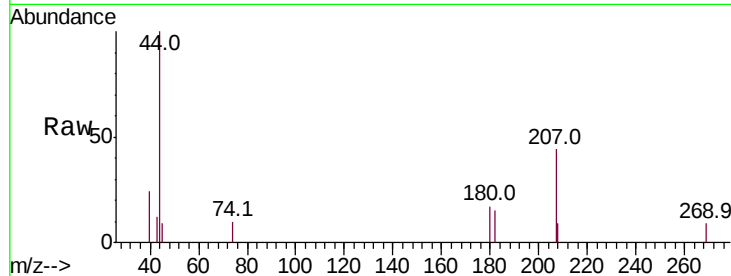
Tot Ion:180 Resp: 285

Ion Ratio Lower Upper

180 100

182 45.6 47.9 143.8#

145 0.0 14.4 43.0#

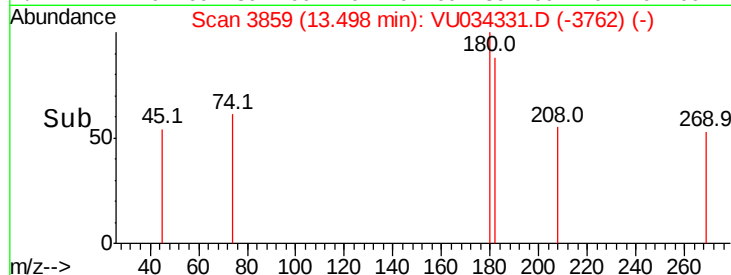


Abundance Ion 179.80 (179.50 to 180.50): V

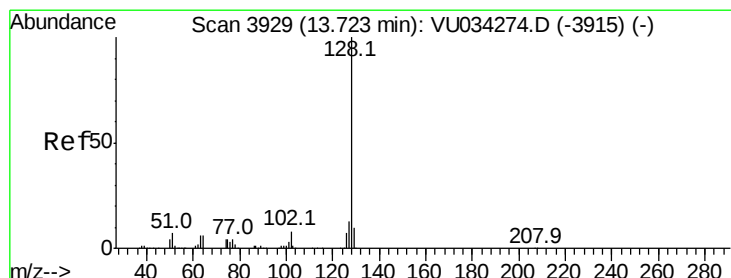
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

Time-->



Time-->



#95

Naphthalene

Concen: 10.945 ug/l

RT: 13.73 min Scan# 3931

Delta R.T. 0.01 min

Lab File: VU034331.D

Acq: 06 Sep 2019 15:25

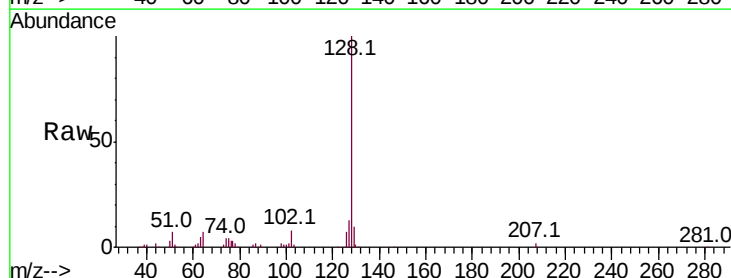
Tgt Ion:128 Resp: 140787

Ion Ratio Lower Upper

128 100

127 12.2 10.6 15.8

129 10.0 8.4 12.6

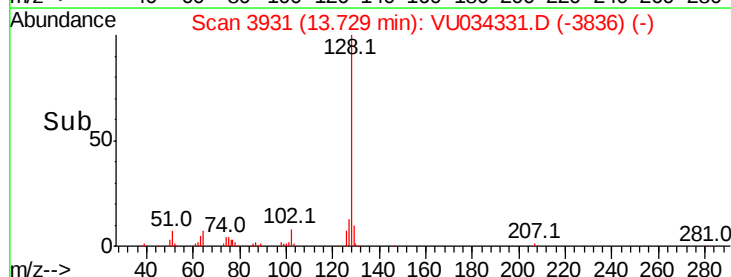


Abundance Ion 128.00 (127.70 to 128.70): V

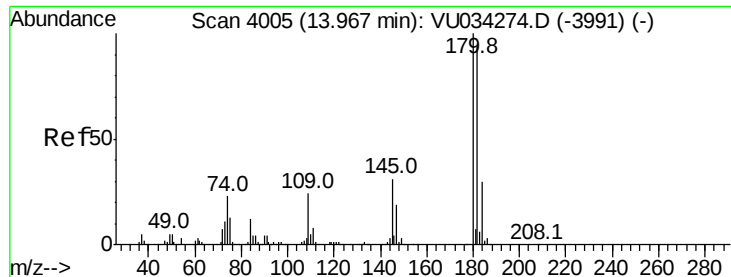
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

Time-->



Time-->



#96
 1,2,3-Trichlorobenzene
 Concen: 2.693 ug/l
 RT: 13.98 min Scan# 4009
 Delta R.T. 0.01 min
 Lab File: VU034331.D
 Acq: 06 Sep 2019 15:25

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180 Resp: 367
 Ion Ratio Lower Upper
 180 100
 182 0.0 48.4 145.0#
 145 27.5 15.4 46.4

