

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU083019\
 Data File : VU034075.D
 Acq On : 29 Aug 2019 20:19
 Operator : JC/SP
 Sample : K4528-25
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-Q3-(1.9)

Quant Time: Aug 30 04:50:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 29 04:11:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	466270	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	748705	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	742453	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	357515	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.29	65	296792	49.68	ug/l	0.00
Spiked Amount			Recovery	=	99.36%	
35) Dibromofluoromethane	4.86	113	242934	46.78	ug/l	0.00
Spiked Amount			Recovery	=	93.56%	
50) Toluene-d8	7.55	98	974634	50.12	ug/l	0.00
Spiked Amount			Recovery	=	100.24%	
62) 4-Bromofluorobenzene	10.29	95	340176	44.98	ug/l	0.00
Spiked Amount			Recovery	=	89.96%	

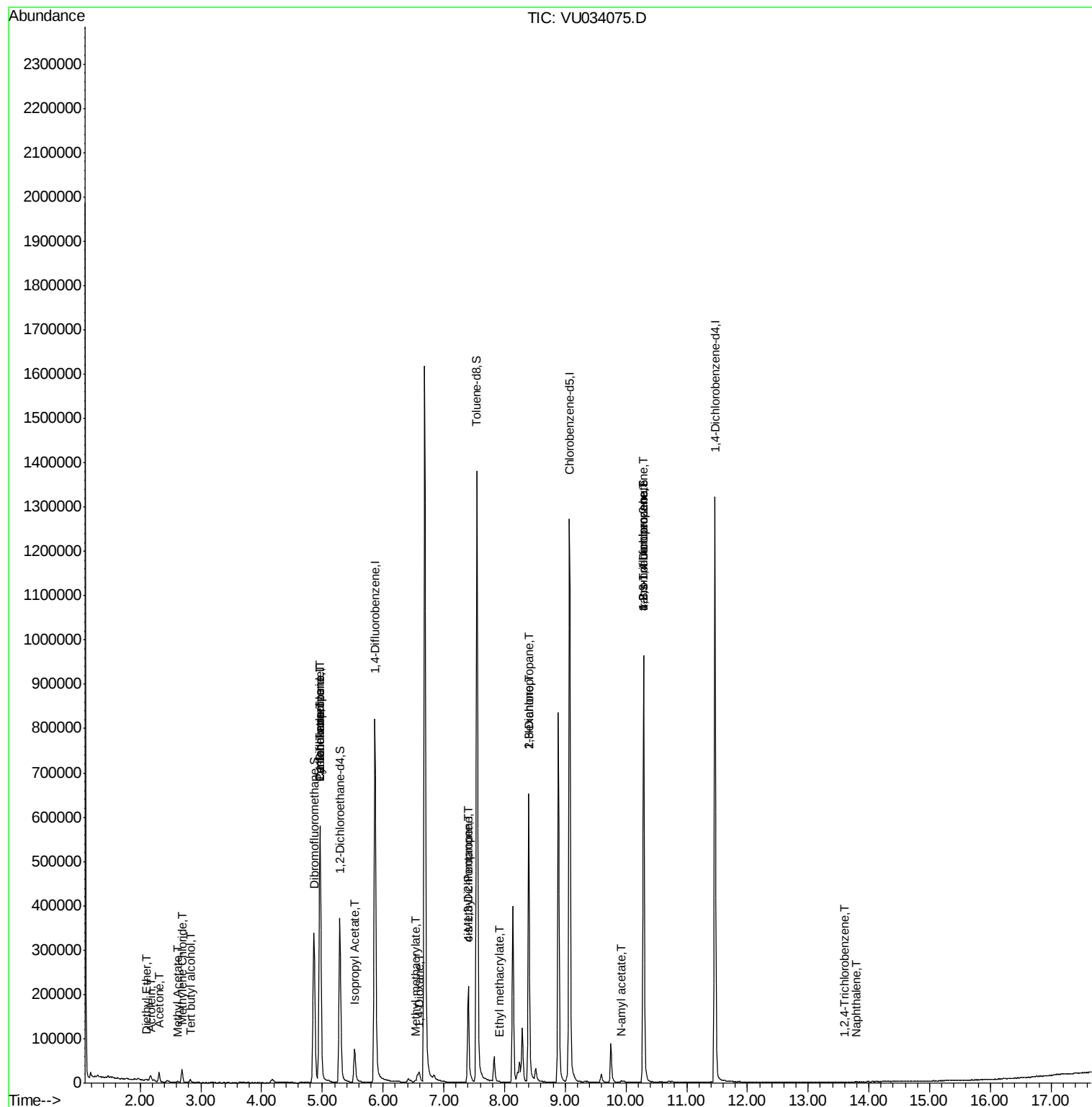
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	722	Below Cal		99
5) Bromomethane	1.63	94	694	Below Cal		96
8) Diethyl Ether	2.10	74	620	0.200	ug/l	66
11) Tert butyl alcohol	2.82	59	4165	3.023	ug/l #	73
13) Acrolein	2.19	56	117	0.202	ug/l #	28
16) Acetone	2.31	43	23317	7.649	ug/l	99
18) Methyl Acetate	2.61	43	3665	0.465	ug/l #	85
20) Methylene Chloride	2.69	84	13116	2.273	ug/l	99
31) Cyclohexane	4.96	56	8463	0.949	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	34865	4.923	ug/l #	48
38) Carbon Tetrachloride	4.96	117	42823	6.265	ug/l #	16
43) Isopropyl Acetate	5.53	43	91904	7.618	ug/l	97
48) Methyl methacrylate	6.53	41	5525	0.949	ug/l #	14
49) 1,4-Dioxane	6.61	88	44	0.302	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	85474	10.258	ug/l #	46
54) cis-1,3-Dichloropropene	7.40	75	40495	4.493	ug/l #	63
56) Ethyl methacrylate	7.92	69	142	0.987	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	6441	0.679	ug/l #	42
59) 2-Hexanone	8.40	43	91101	14.484	ug/l #	52
74) N-amyl acetate	9.93	43	2661	0.263	ug/l #	46
76) 1,2,3-Trichloropropane	10.29	75	163634	20.308	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	163634	68.381	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.58	180	21	1.117	ug/l #	12
95) Naphthalene	13.79	128	238	1.800	ug/l #	70

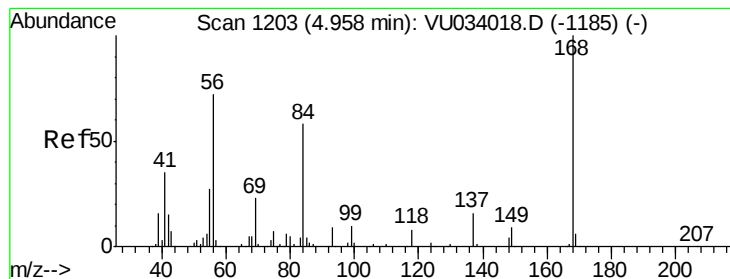
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 29 04:11:12 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034075.D

Acq: 29 Aug 2019 20:19

Instrument :

MSVOA_U

ClientSampleId :

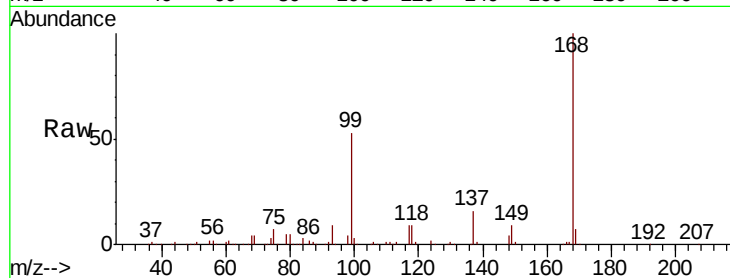
T9-12-13-Q3-(1.9)

Tgt Ion:168 Resp: 466270

Ion Ratio Lower Upper

168 100

99 53.5 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034018.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU034018.D (-1185) (-)

4.96

200000

150000

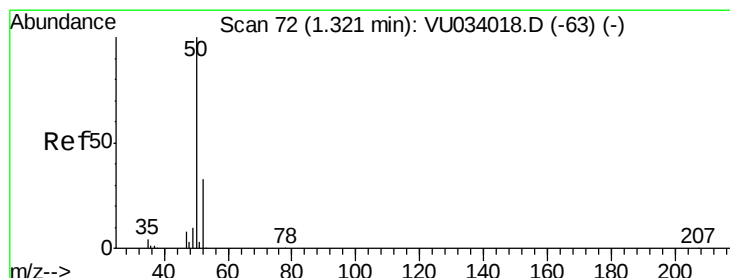
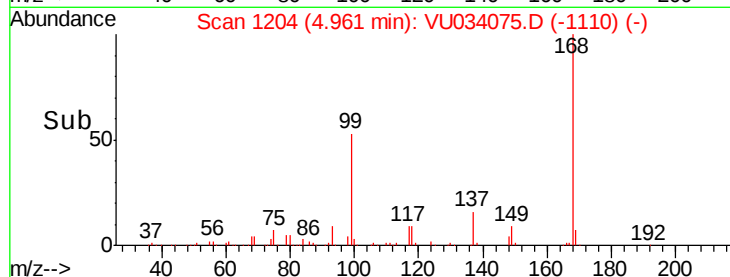
100000

50000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 74

Delta R.T. 0.01 min

Lab File: VU034075.D

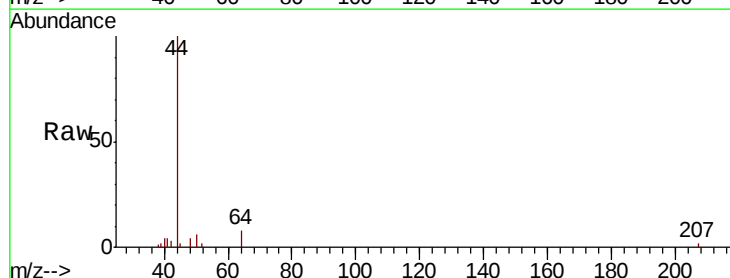
Acq: 29 Aug 2019 20:19

Tgt Ion: 50 Resp: 722

Ion Ratio Lower Upper

50 100

52 33.3 26.2 39.4



Abundance Ion 49.90 (49.60 to 50.60): VU034018.D (-63) (-)

Ion 51.90 (51.60 to 52.60): VU034018.D (-63) (-)

1.33

600

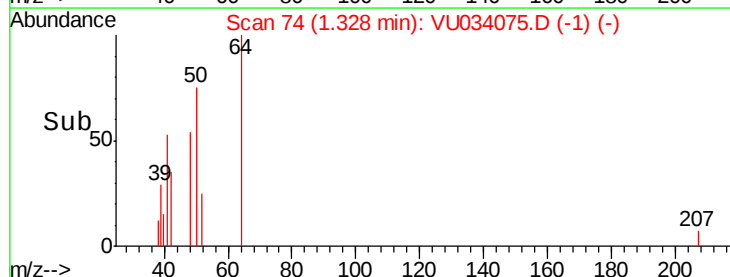
400

200

0

1.30 1.32 1.34

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 168

Delta R.T. 0.03 min

Lab File: VU034075.D

Acq: 29 Aug 2019 20:19

Instrument :

MSVOA_U

ClientSampleId :

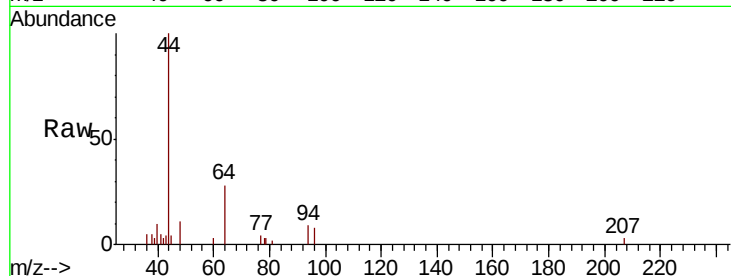
T9-12-13-Q3-(1.9)

Tgt Ion: 94 Resp: 694

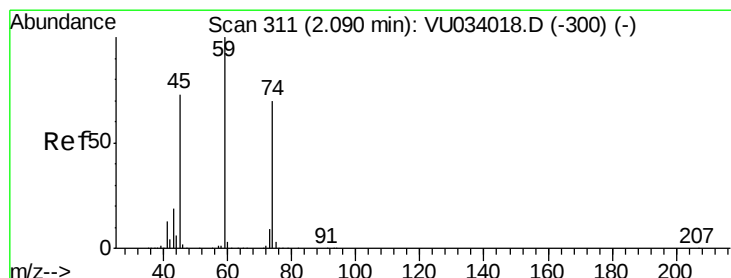
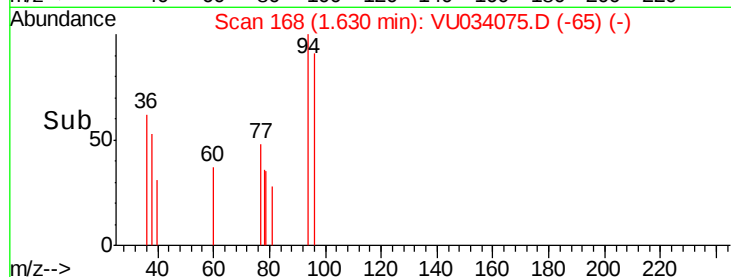
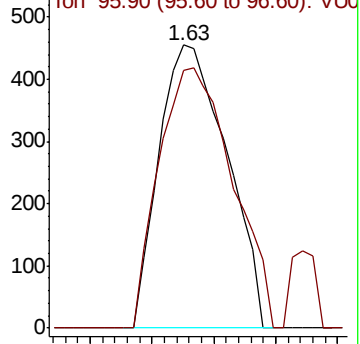
Ion Ratio Lower Upper

94 100

96 91.2 76.3 114.5



Abundance Ion 93.90 (93.60 to 94.60): VU034075.D (-168) (-)



#8

Diethyl Ether

Concen: 0.200 ug/l

RT: 2.10 min Scan# 314

Delta R.T. 0.01 min

Lab File: VU034075.D

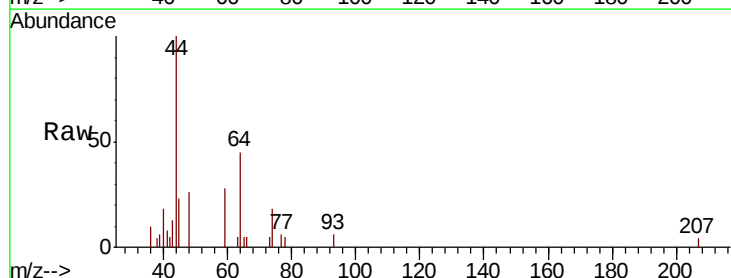
Acq: 29 Aug 2019 20:19

Tgt Ion: 74 Resp: 620

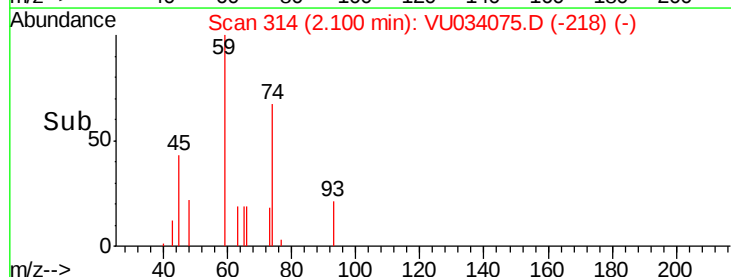
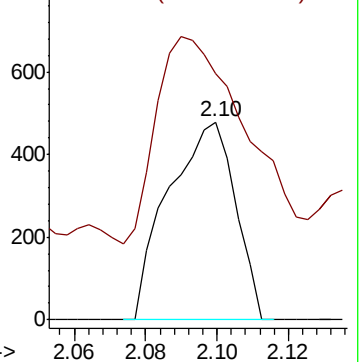
Ion Ratio Lower Upper

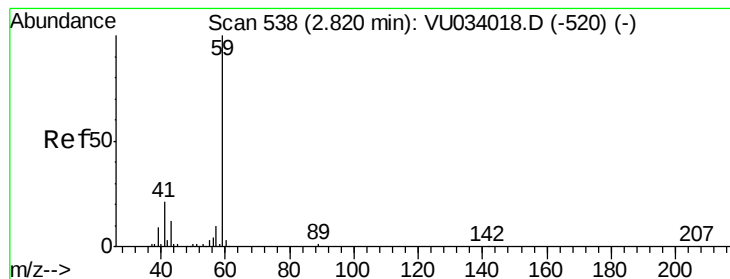
74 100

45 138.9 51.8 155.5



Abundance Ion 74.00 (73.70 to 74.70): VU034075.D (-314) (-)





#11

Tert butyl alcohol

Concen: 3.023 ug/l

RT: 2.82 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU034075.D

Acq: 29 Aug 2019 20:19

Instrument :

MSVOA_U

ClientSampleId :

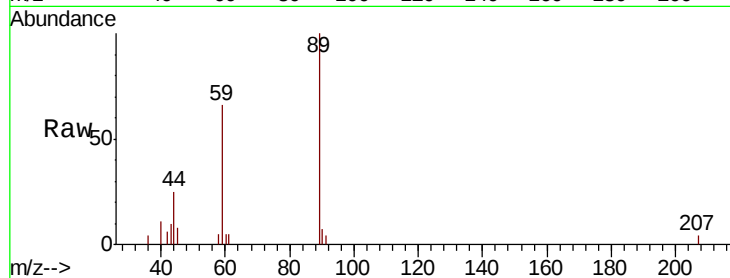
T9-12-13-Q3-(1.9)

Tgt Ion: 59 Resp: 4165

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU034075.D (-445) (-)

Ion 57.00 (56.70 to 57.70): VU034075.D (-445) (-)

2.82

2000

1500

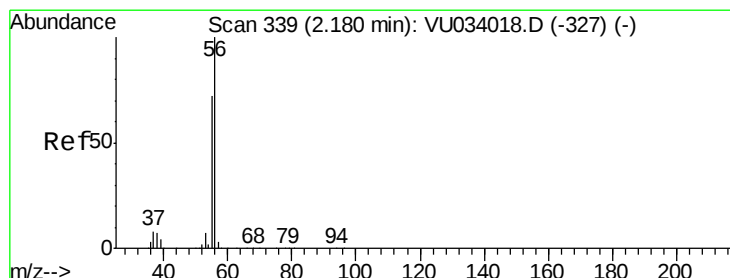
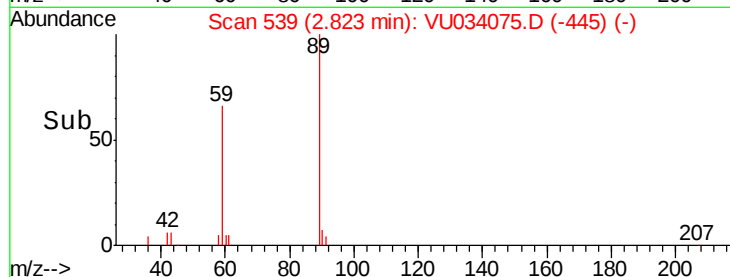
1000

500

0

2.75 2.80 2.85

Time-->



#13

Acrolein

Concen: 0.202 ug/l

RT: 2.19 min Scan# 342

Delta R.T. 0.01 min

Lab File: VU034075.D

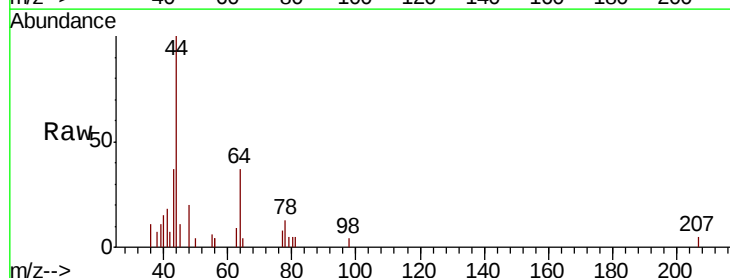
Acq: 29 Aug 2019 20:19

Tgt Ion: 56 Resp: 117

Ion Ratio Lower Upper

56 100

55 130.8 57.1 85.7#



Abundance Ion 56.00 (55.70 to 56.70): VU034075.D (-246) (-)

Ion 55.00 (54.70 to 55.70): VU034075.D (-246) (-)

2.19

250

200

150

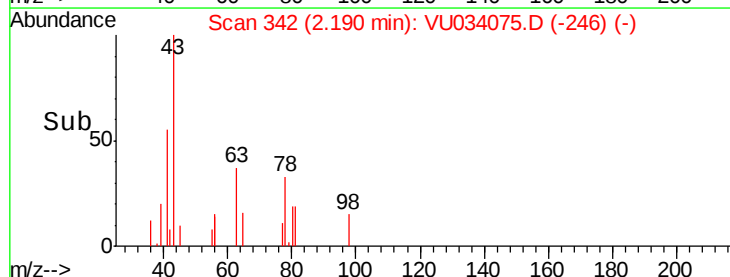
100

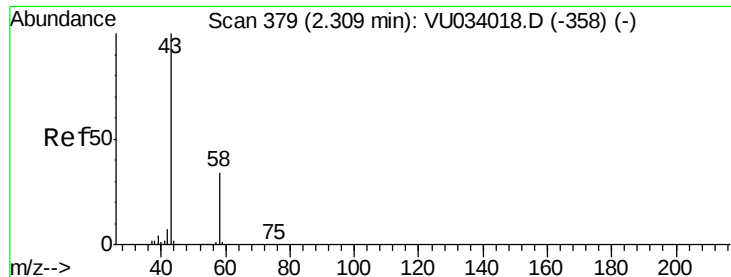
50

0

2.17 2.18 2.19 2.20 2.21

Time-->





#16

Acetone

Concen: 7.649 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034075.D

Acq: 29 Aug 2019 20:19

Instrument :

MSVOA_U

ClientSampleId :

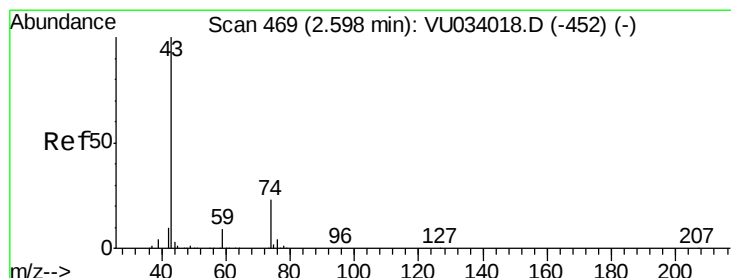
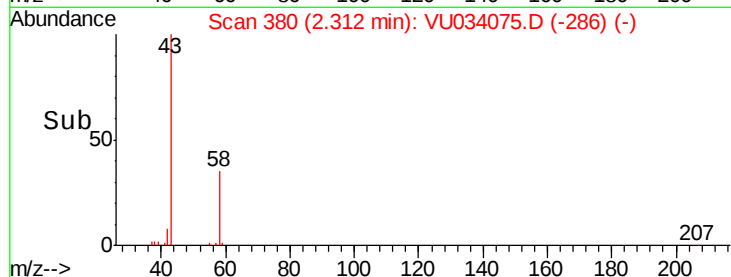
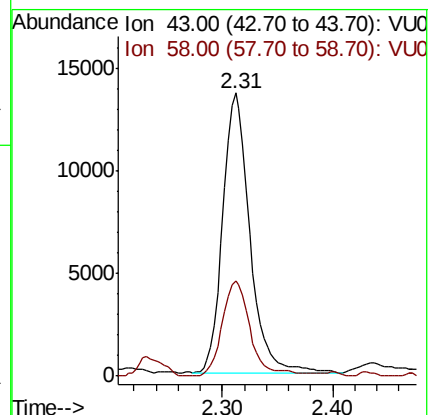
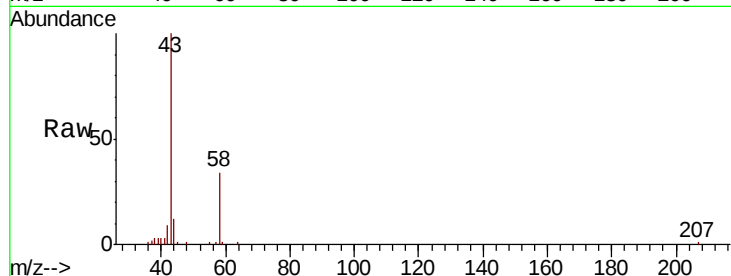
T9-12-13-Q3-(1.9)

Tgt Ion: 43 Resp: 23317

Ion Ratio Lower Upper

43 100

58 34.3 26.8 40.2



#18

Methyl Acetate

Concen: 0.465 ug/l

RT: 2.61 min Scan# 473

Delta R.T. 0.01 min

Lab File: VU034075.D

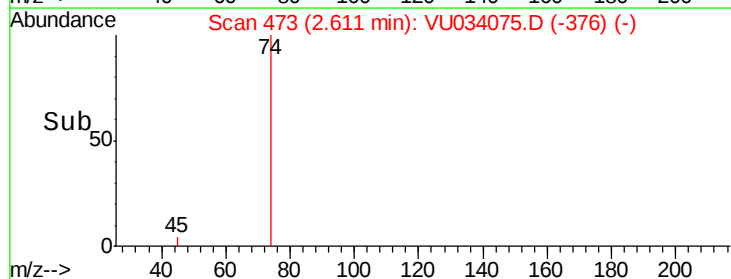
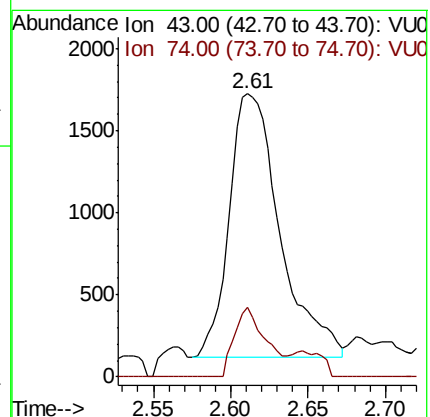
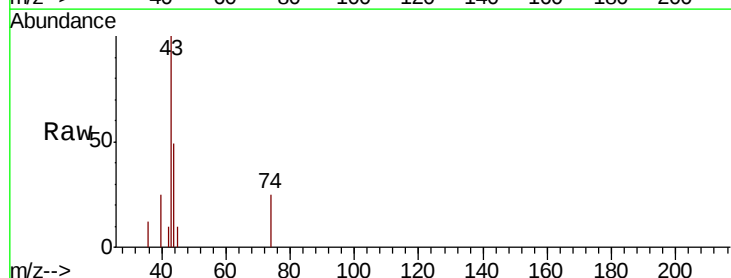
Acq: 29 Aug 2019 20:19

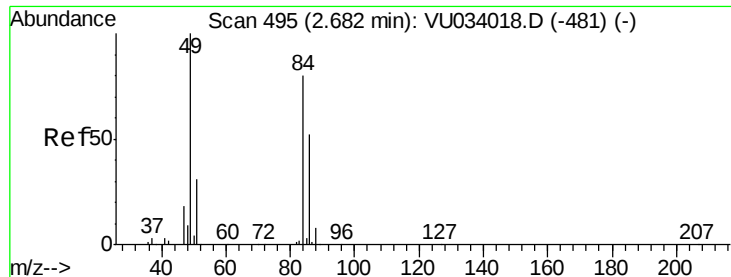
Tgt Ion: 43 Resp: 3665

Ion Ratio Lower Upper

43 100

74 16.7 19.2 28.8#

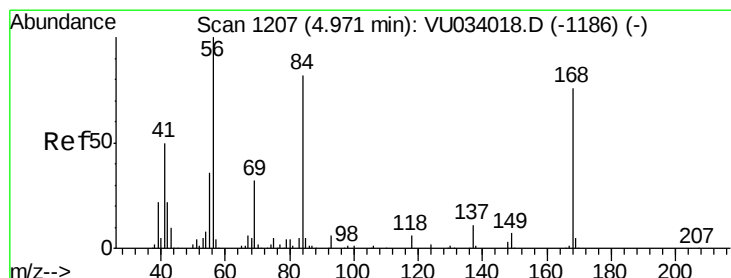
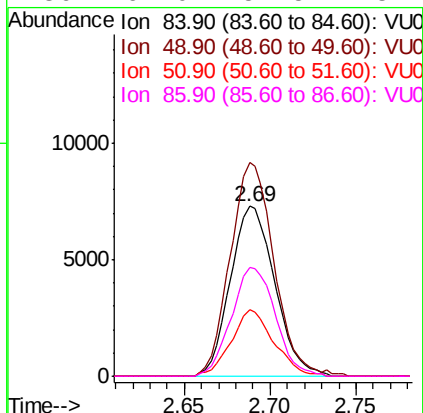
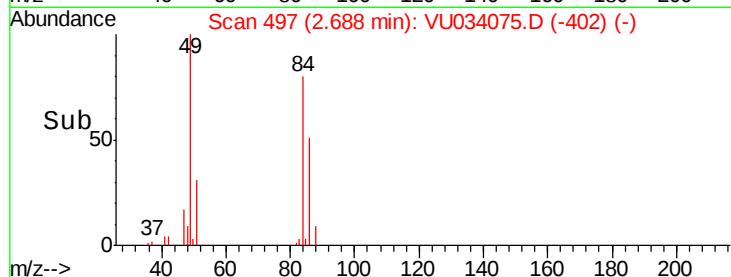
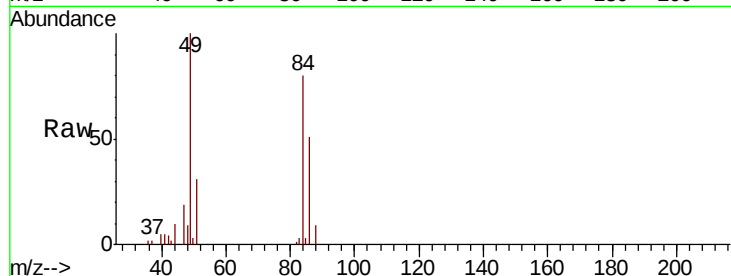




#20
Methylene Chloride
Concen: 2.273 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.01 min
Lab File: VU034075.D
Acq: 29 Aug 2019 20:19

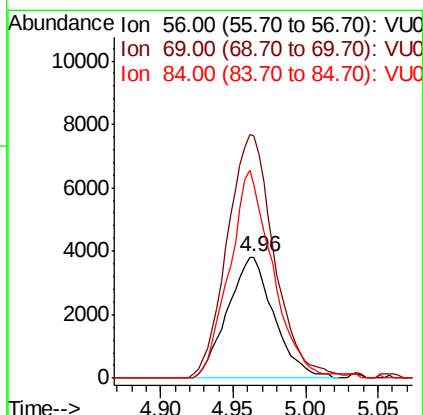
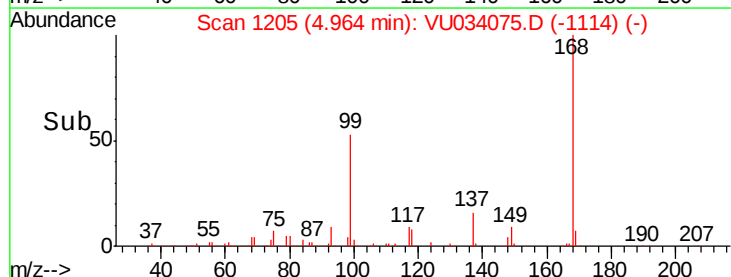
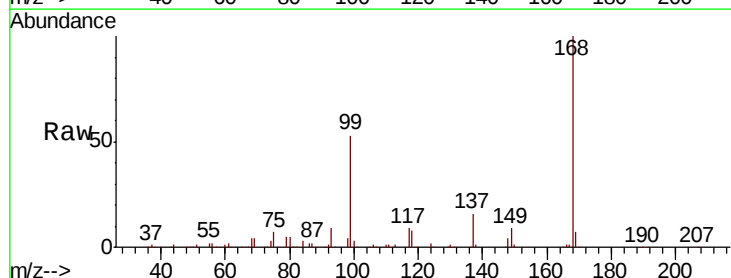
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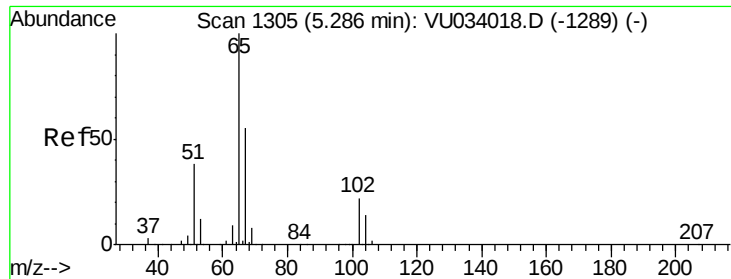
Tgt Ion:	84	Resp:	13116
Ion	Ratio	Lower	Upper
84	100		
49	125.8	100.2	150.4
51	39.0	30.8	46.2
86	64.0	52.5	78.7



#31
Cyclohexane
Concen: 0.949 ug/l
RT: 4.96 min Scan# 1205
Delta R.T. -0.01 min
Lab File: VU034075.D
Acq: 29 Aug 2019 20:19

Tgt Ion:	56	Resp:	8463
Ion	Ratio	Lower	Upper
56	100		
69	200.1	25.4	38.0#
84	160.5	65.8	98.8#

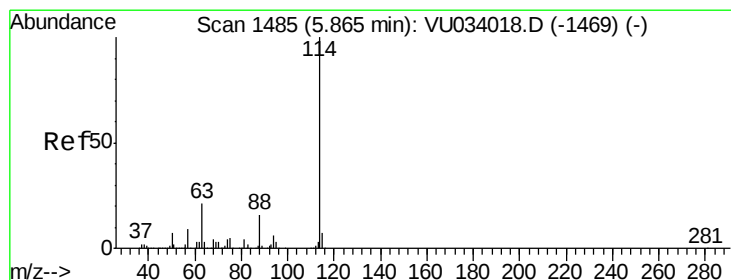
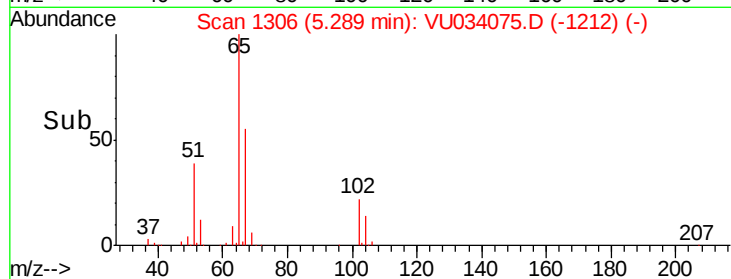
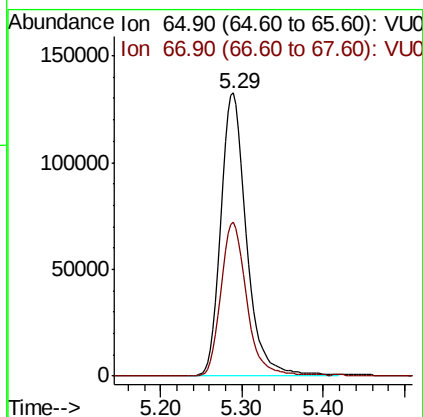
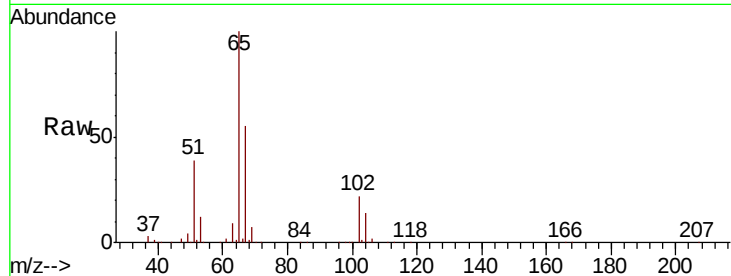




#33
 1,2-Dichloroethane-d4
 Concen: 49.676 ug/l
 RT: 5.29 min Scan# 1306
 Delta R.T. 0.00 min
 Lab File: VU034075.D
 Acq: 29 Aug 2019 20:19

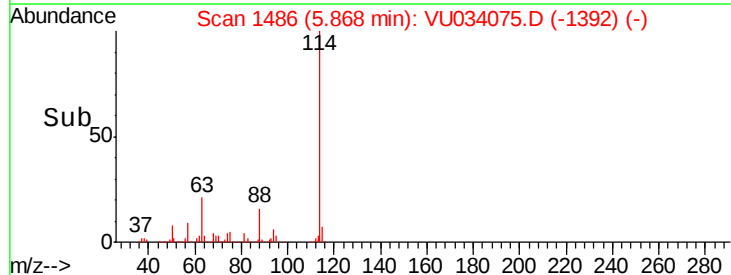
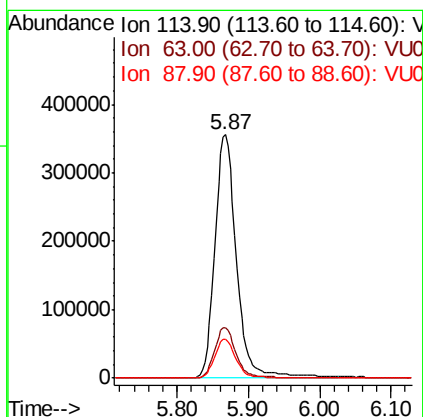
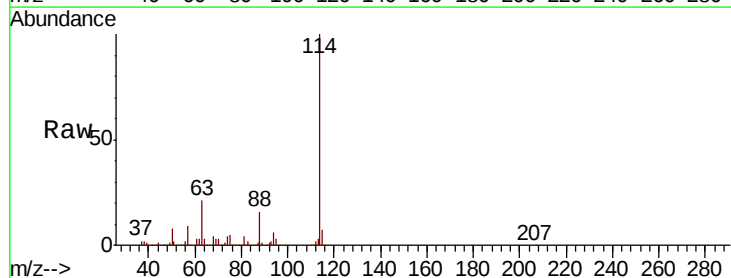
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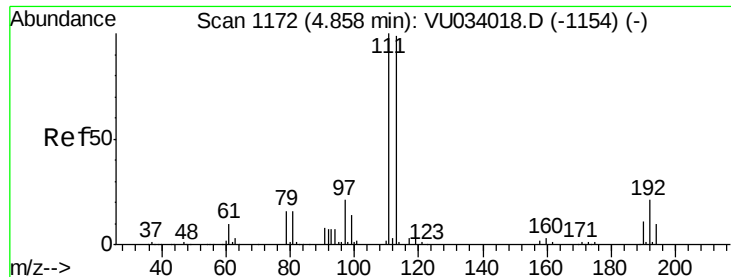
Tgt Ion: 65 Resp: 296792
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034075.D
 Acq: 29 Aug 2019 20:19

Tgt Ion: 114 Resp: 748705
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 42.0
 88 16.1 0.0 32.0

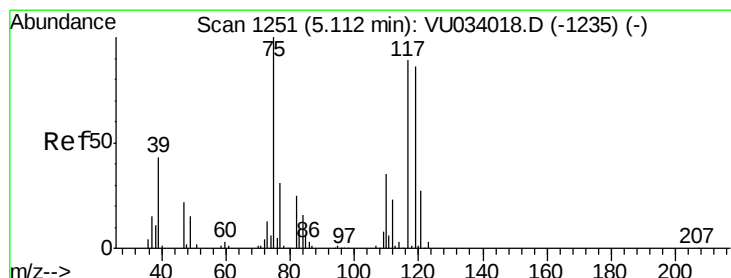
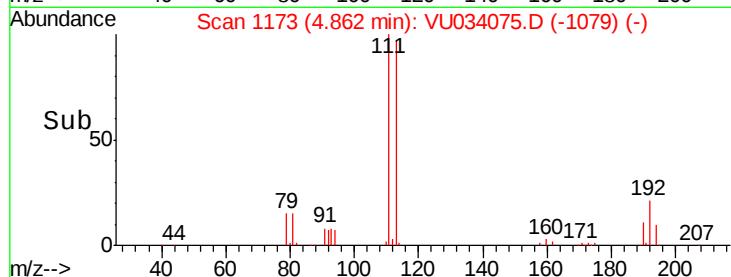
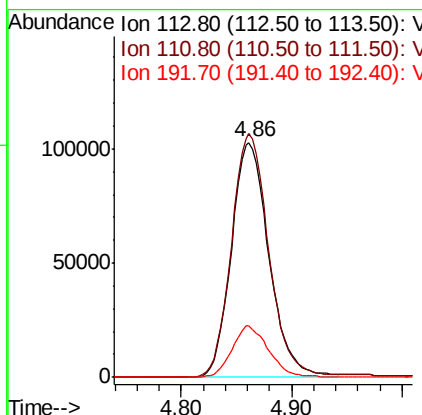
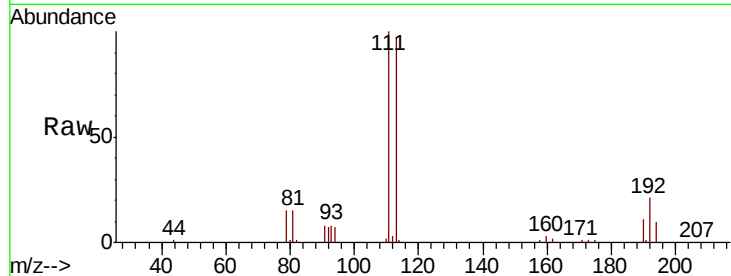




#35
 Dibromofluoromethane
 Concen: 46.781 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034075.D
 Acq: 29 Aug 2019 20:19

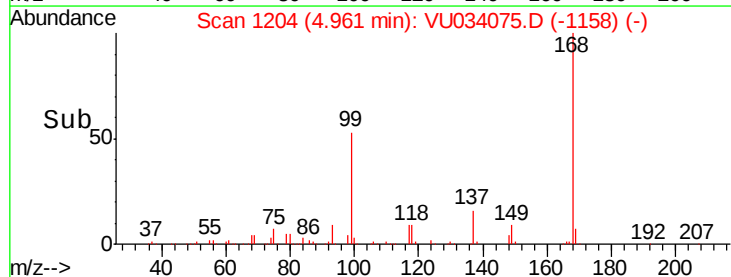
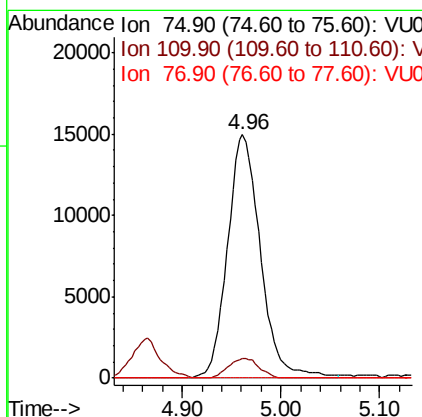
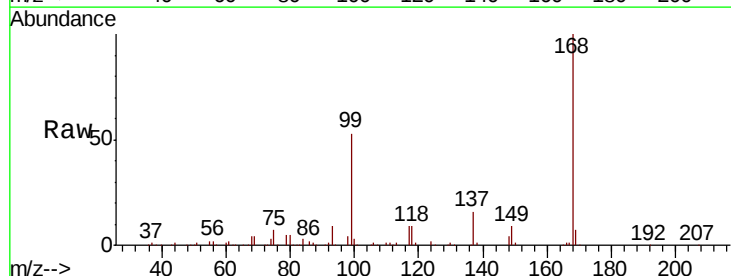
Instrument :
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 ClientSampleId :
 T9-12-13-Q3-(1.9)

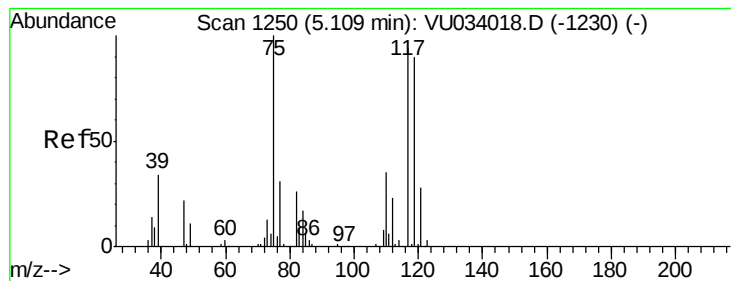
Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.7	81.7	122.5
192	21.4	17.1	25.7



#36
 1,1-Dichloropropene
 Concen: 4.923 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034075.D
 Acq: 29 Aug 2019 20:19

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.6	17.8	53.5#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 6.265 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.14 min

Lab File: VU034075.D

Acq: 29 Aug 2019 20:19

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-Q3-(1.9)

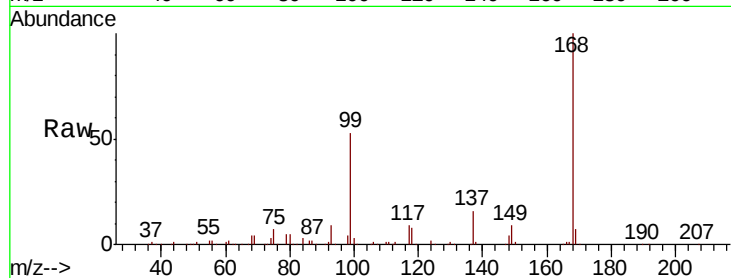
Tgt Ion:117 Resp: 42823

Ion Ratio Lower Upper

117 100

119 5.4 77.0 115.4#

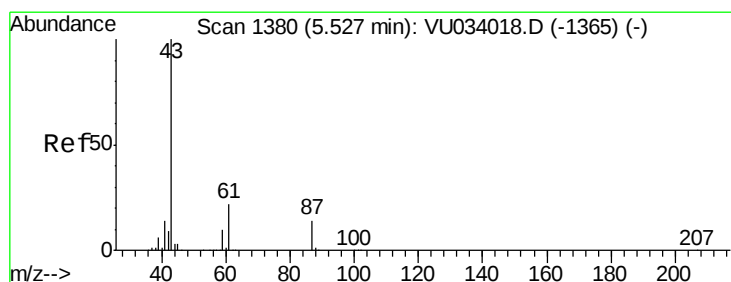
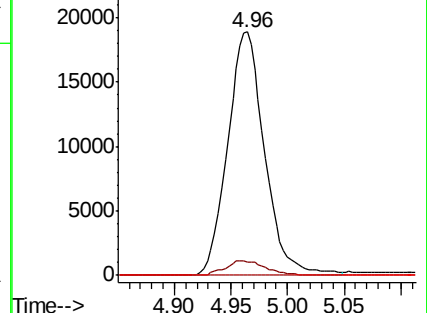
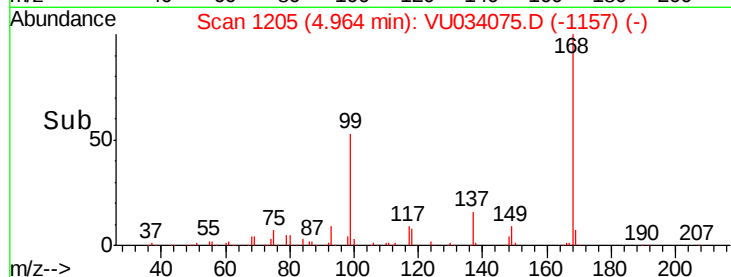
121 0.0 23.9 35.9#



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



#43

Isopropyl Acetate

Concen: 7.618 ug/l

RT: 5.53 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VU034075.D

Acq: 29 Aug 2019 20:19

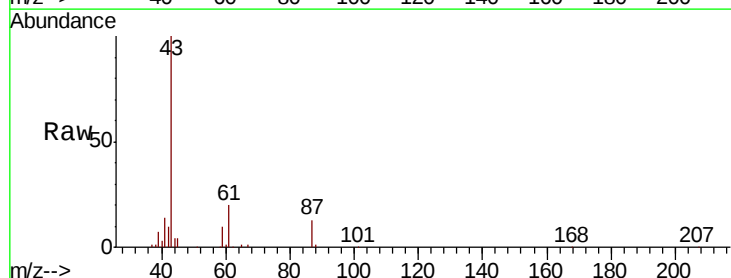
Tgt Ion: 43 Resp: 91904

Ion Ratio Lower Upper

43 100

61 20.0 17.2 25.8

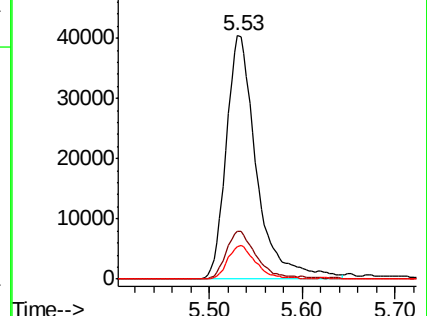
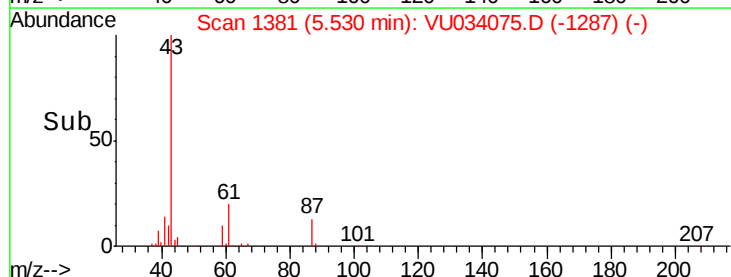
87 12.9 10.8 16.2

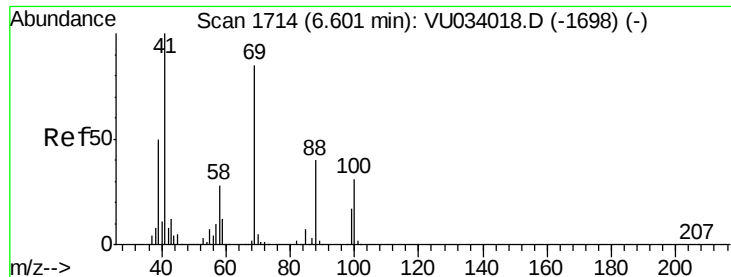


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

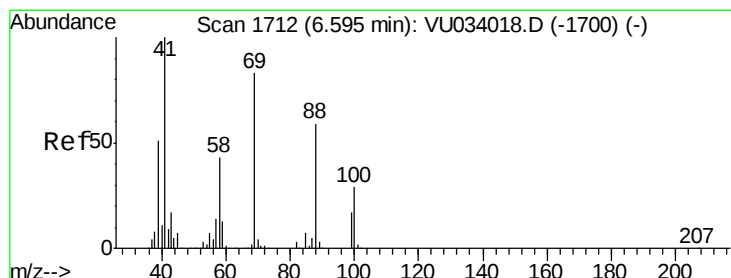
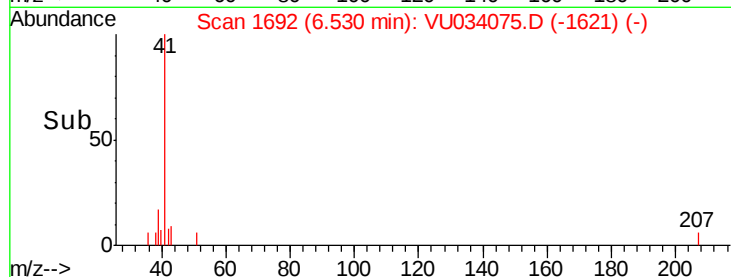
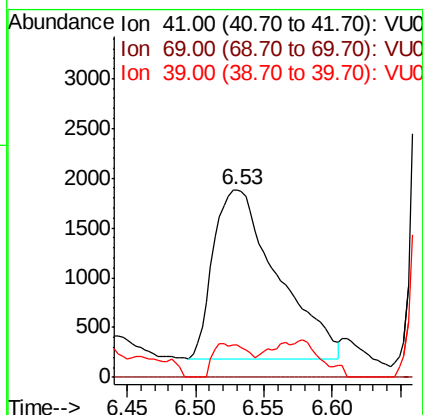
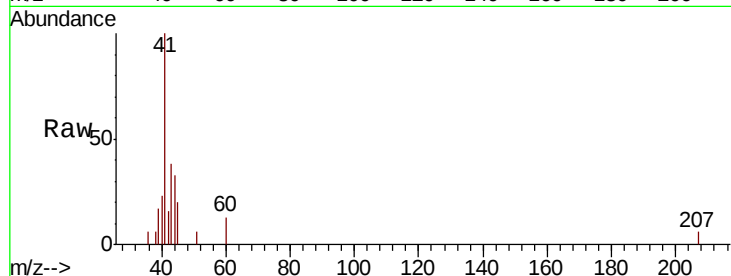




#48
Methyl methacrylate
Concen: 0.949 ug/l
RT: 6.53 min Scan# 1692
Delta R.T. -0.07 min
Lab File: VU034075.D
Acq: 29 Aug 2019 20:19

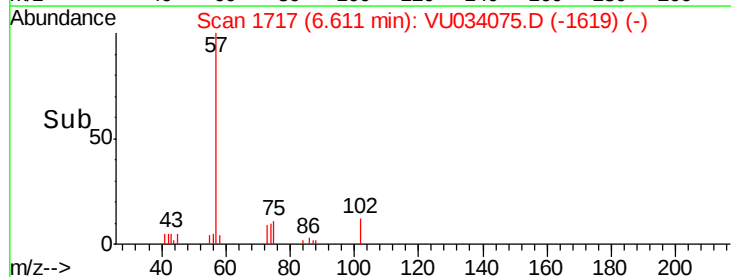
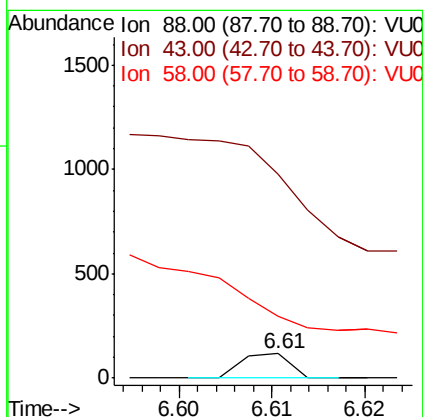
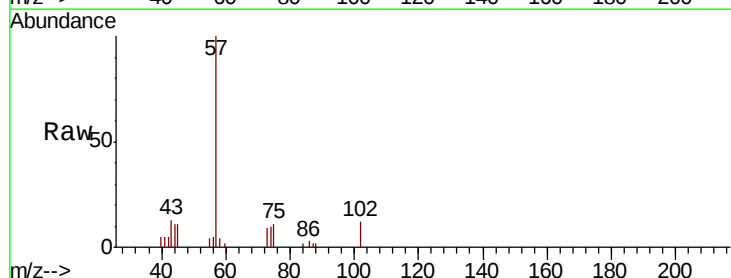
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-Q3-(1.9)

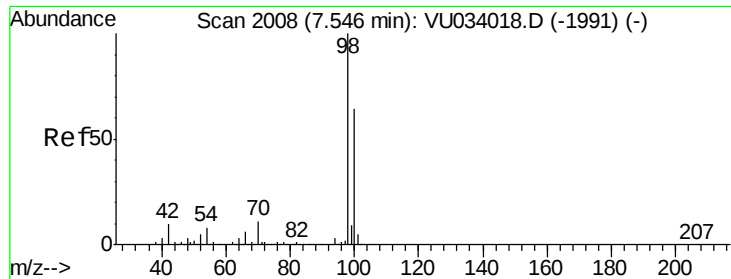
Tgt Ion: 41 Resp: 5525
Ion Ratio Lower Upper
41 100
69 0.0 69.5 104.3#
39 0.0 40.3 60.5#



#49
1,4-Dioxane
Concen: 0.302 ug/l
RT: 6.61 min Scan# 1717
Delta R.T. 0.02 min
Lab File: VU034075.D
Acq: 29 Aug 2019 20:19

Tgt Ion: 88 Resp: 44
Ion Ratio Lower Upper
88 100
43 0.0 24.8 37.2#
58 2900.0 59.3 88.9#





#50

Toluene-d8

Concen: 50.124 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034075.D

Acq: 29 Aug 2019 20:19

Instrument :

MSVOA_U

ClientSampleId :

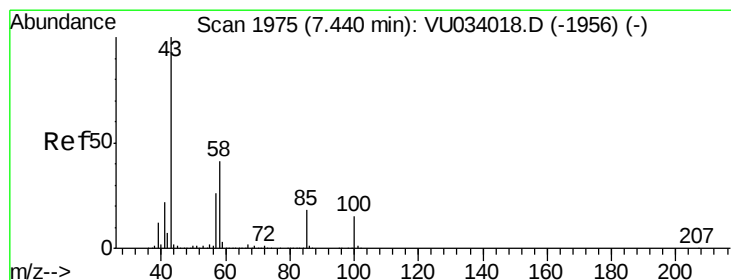
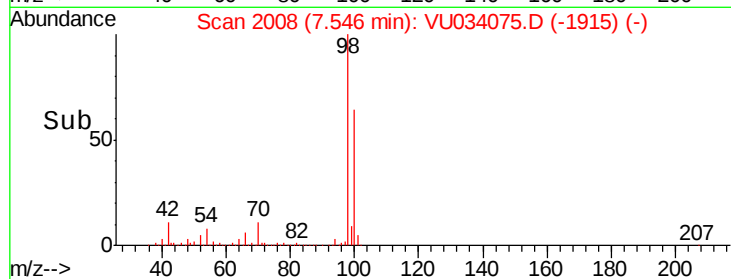
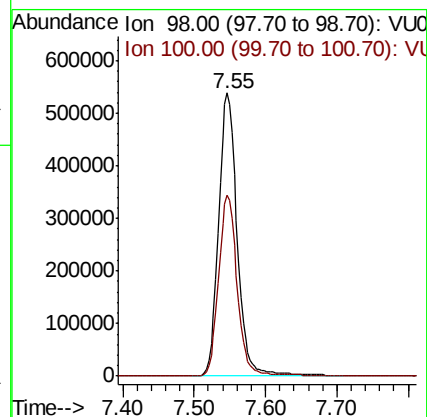
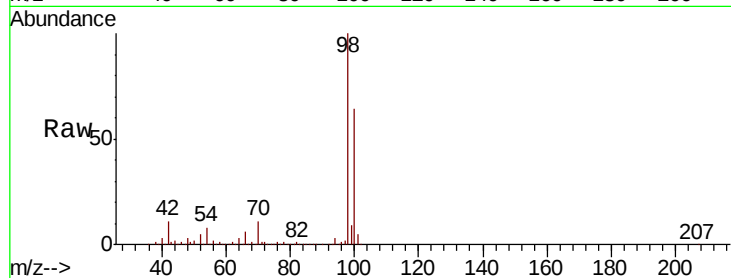
T9-12-13-Q3-(1.9)

Tgt Ion: 98 Resp: 974634

Ion Ratio Lower Upper

98 100

100 63.6 50.3 75.5



#51

4-Methyl-2-Pentanone

Concen: 10.258 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034075.D

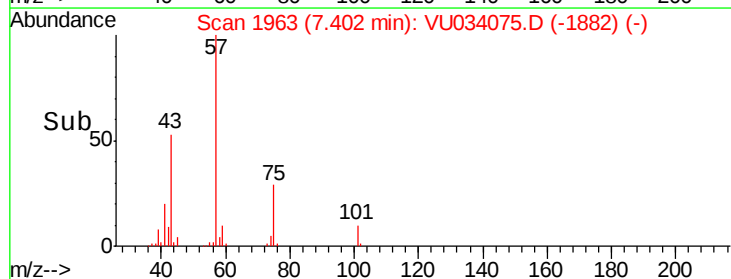
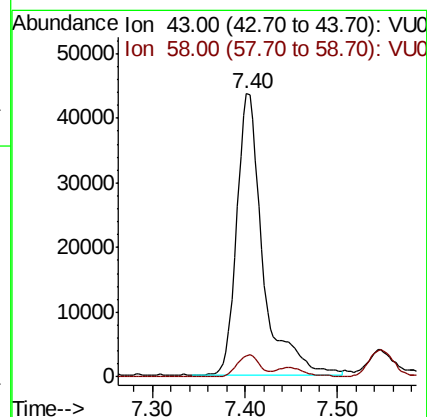
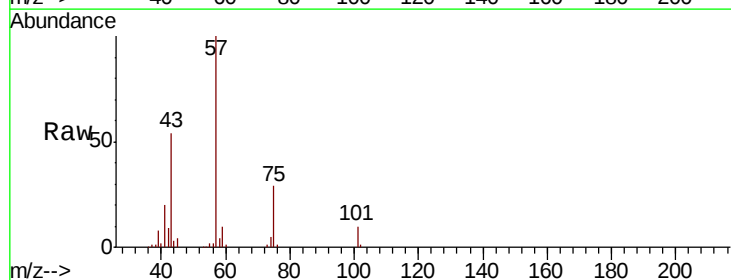
Acq: 29 Aug 2019 20:19

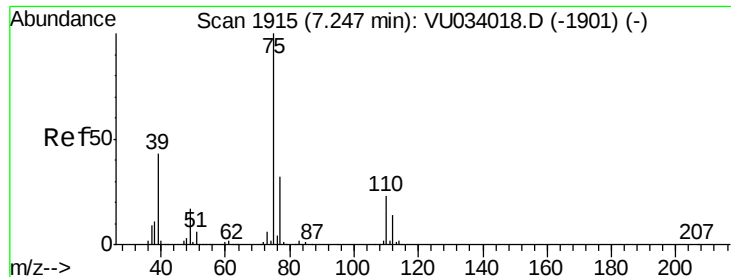
Tgt Ion: 43 Resp: 85474

Ion Ratio Lower Upper

43 100

58 6.9 32.2 48.4#



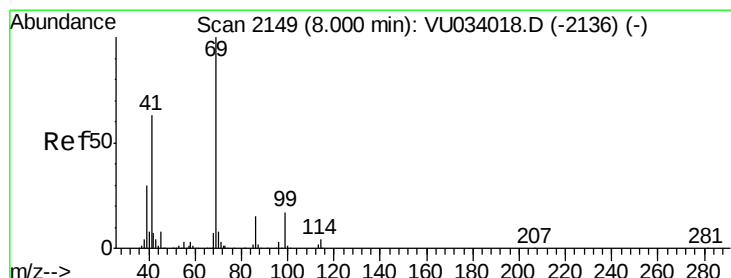
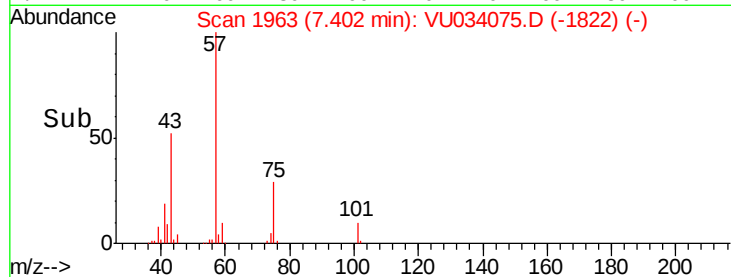
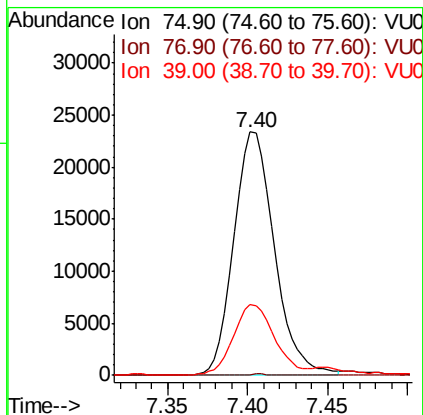
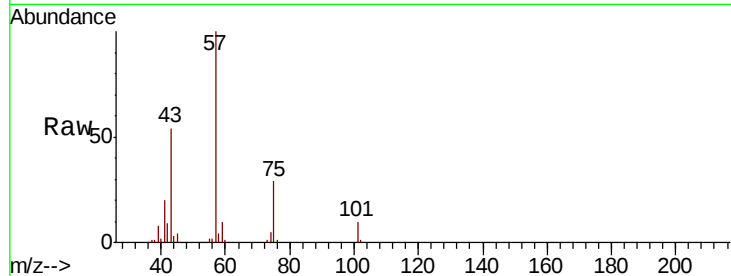


#54

cis-1,3-Dichloropropene
 Concen: 4.493 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034075.D
 Acq: 29 Aug 2019 20:19

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-Q3-(1.9)

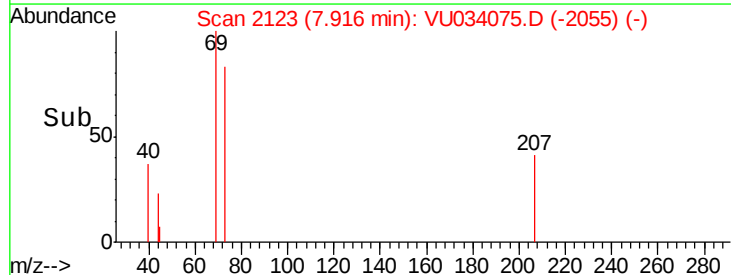
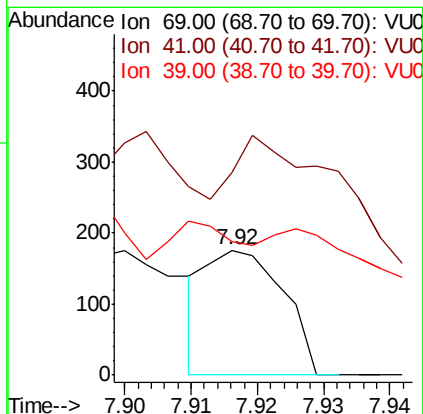
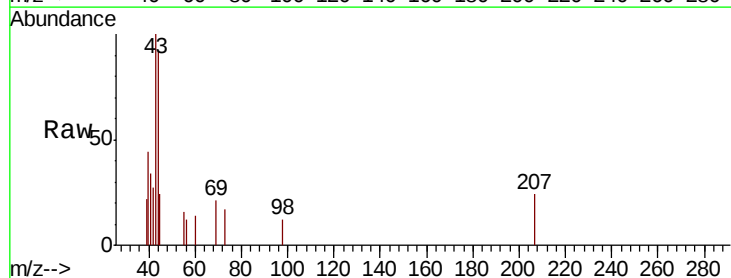
Tgt Ion	Ratio	Lower	Upper
75	100		
77	0.0	25.2	37.8#
39	29.2	34.6	51.8#

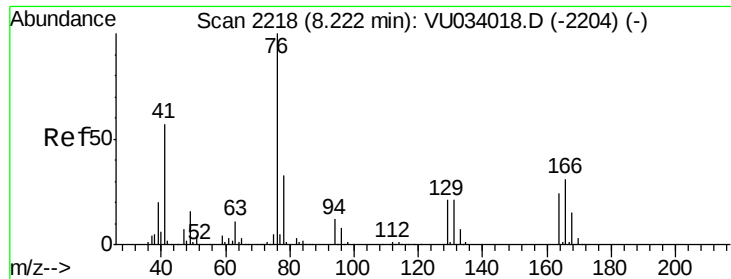


#56

Ethyl methacrylate
 Concen: 0.987 ug/l
 RT: 7.92 min Scan# 2123
 Delta R.T. -0.08 min
 Lab File: VU034075.D
 Acq: 29 Aug 2019 20:19

Tgt Ion	Ratio	Lower	Upper
69	100		
41	0.0	50.7	76.1#
39	0.0	24.2	36.2#

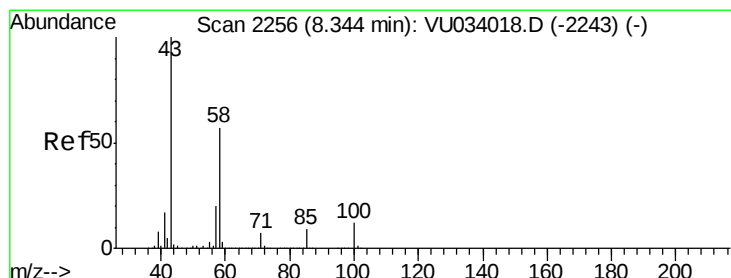
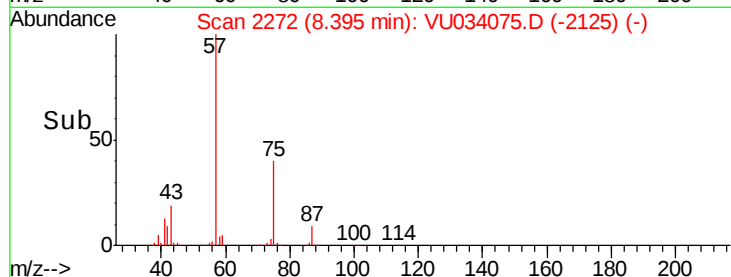
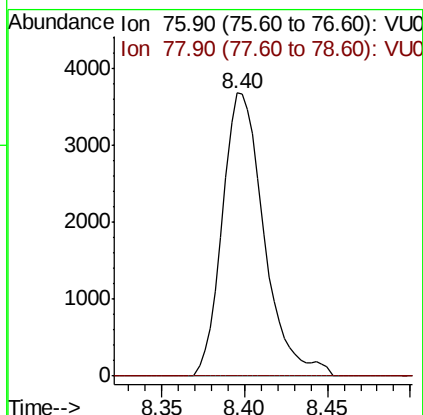
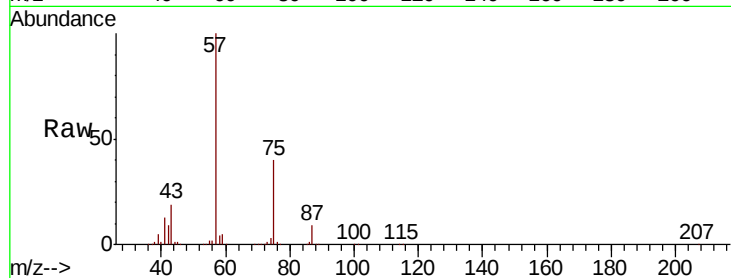




#57
 1,3-Dichloropropane
 Concen: 0.679 ug/l
 RT: 8.40 min Scan# 2272
 Delta R.T. 0.17 min
 Lab File: VU034075.D
 Acq: 29 Aug 2019 20:19

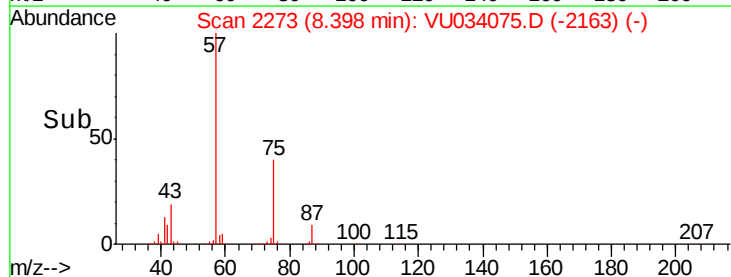
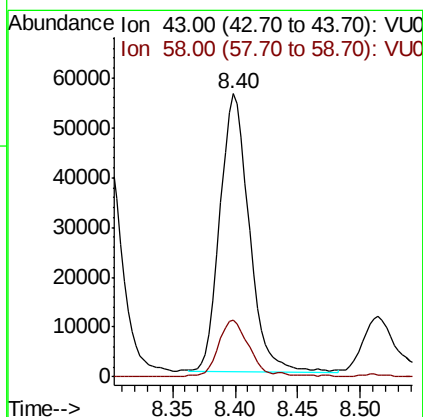
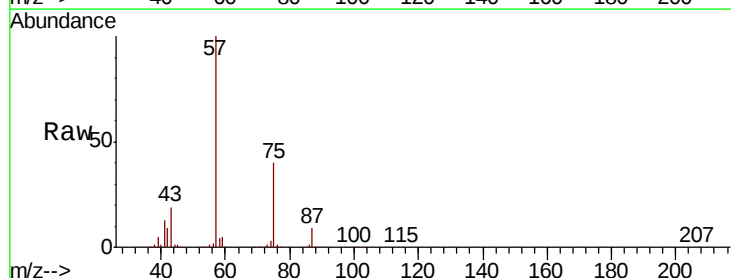
Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-Q3-(1.9)

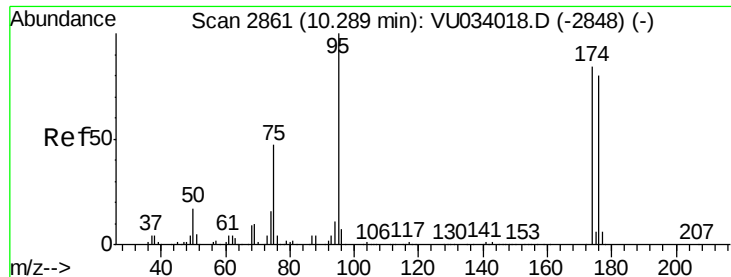
Tgt Ion: 76 Resp: 6441
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.4#



#59
 2-Hexanone
 Concen: 14.484 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.05 min
 Lab File: VU034075.D
 Acq: 29 Aug 2019 20:19

Tgt Ion: 43 Resp: 91101
 Ion Ratio Lower Upper
 43 100
 58 21.8 28.4 85.3#





#62

4-Bromofluorobenzene

Concen: 44.975 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VU034075.D

Acq: 29 Aug 2019 20:19

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-Q3-(1.9)

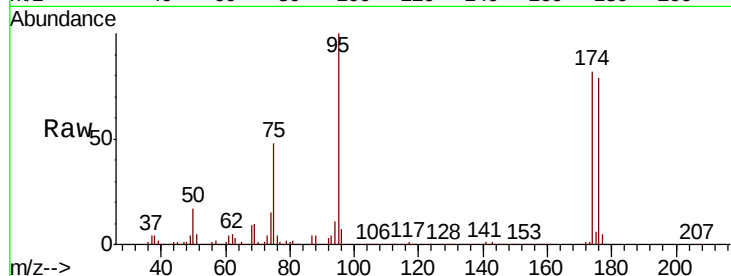
Tgt Ion: 95 Resp: 340176

Ion Ratio Lower Upper

95 100

174 84.0 0.0 168.8

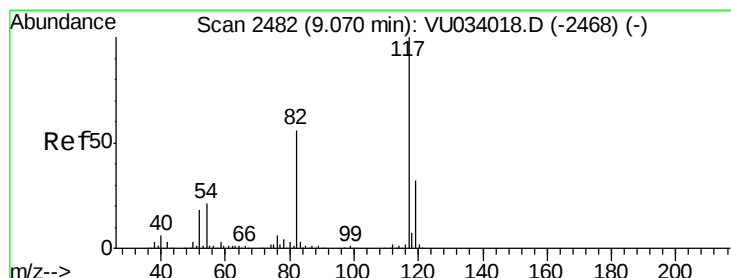
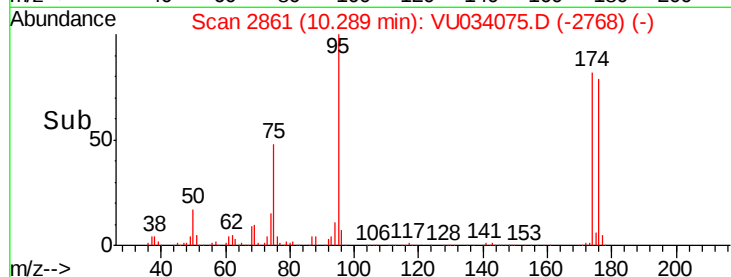
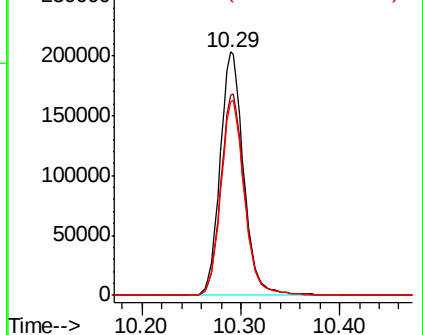
176 80.2 0.0 161.8



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: VU034075.D

Acq: 29 Aug 2019 20:19

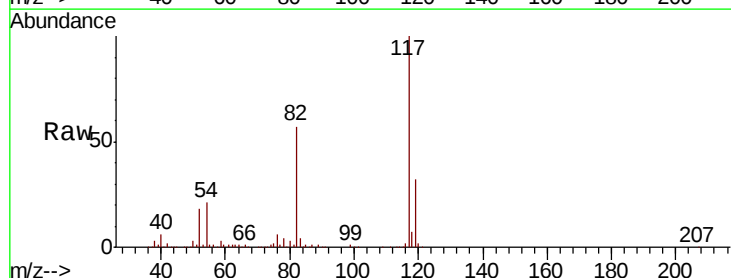
Tgt Ion: 117 Resp: 742453

Ion Ratio Lower Upper

117 100

82 56.9 45.1 67.7

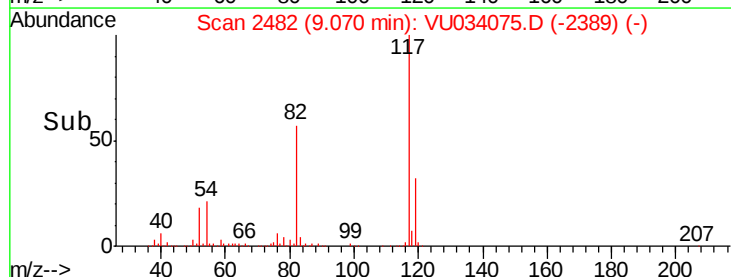
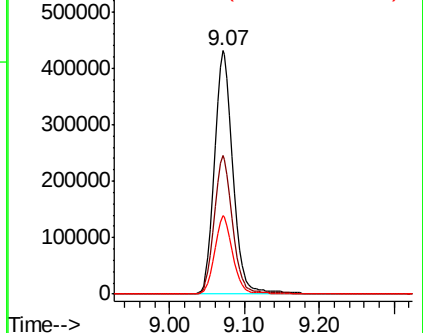
119 32.1 25.4 38.0

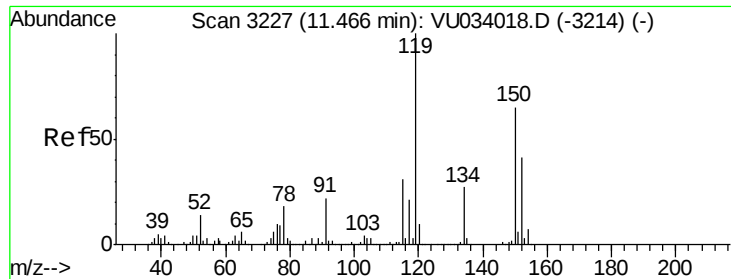


Abundance Ion 116.90 (116.60 to 117.60): V

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: 11.47 min Scan# 3227

Delta R.T. -0.00 min

Lab File: VU034075.D

Acq: 29 Aug 2019 20:19

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-Q3-(1.9)

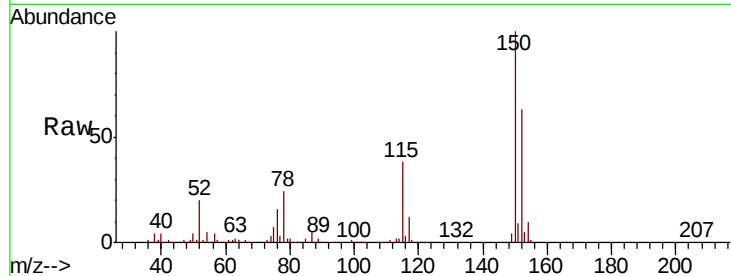
Tgt Ion:152 Resp: 357515

Ion Ratio Lower Upper

152 100

115 58.2 41.1 123.3

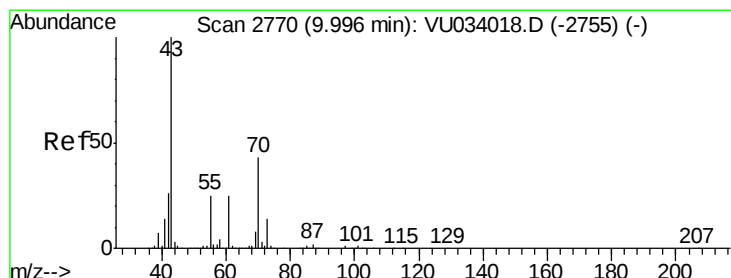
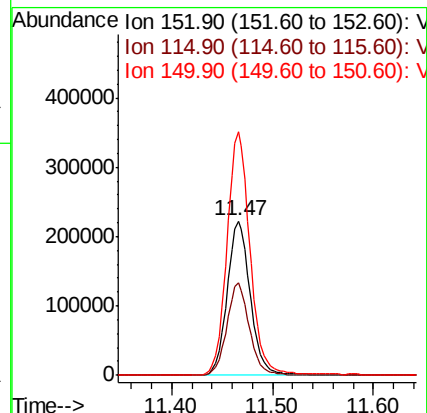
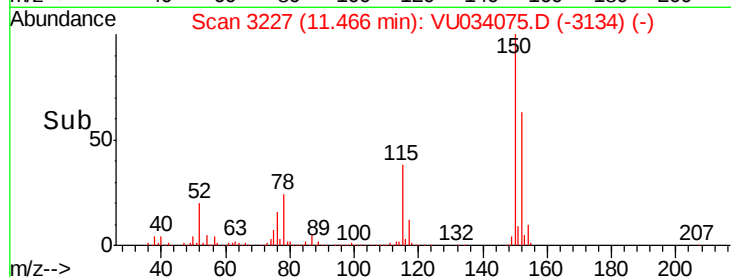
150 156.9 0.0 348.8



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



#74

N-ethyl acetate

Concen: 0.263 ug/l

RT: 9.93 min Scan# 2748

Delta R.T. -0.07 min

Lab File: VU034075.D

Acq: 29 Aug 2019 20:19

Tgt Ion: 43 Resp: 2661

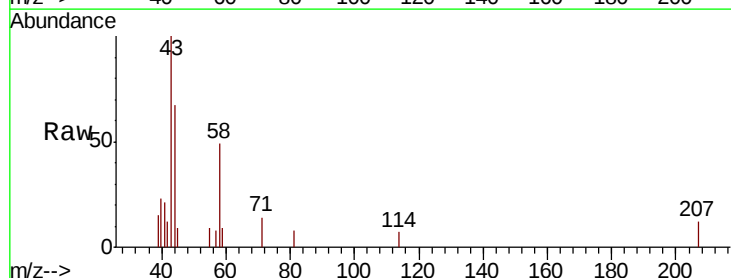
Ion Ratio Lower Upper

43 100

70 0.0 35.2 52.8#

55 8.6 20.5 30.7#

61 0.0 20.0 30.0#

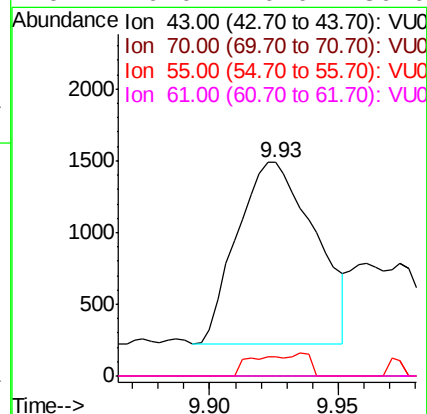
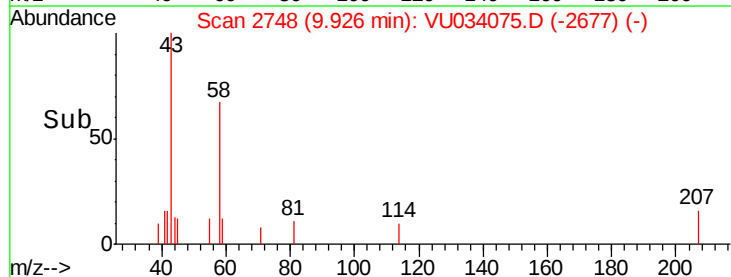


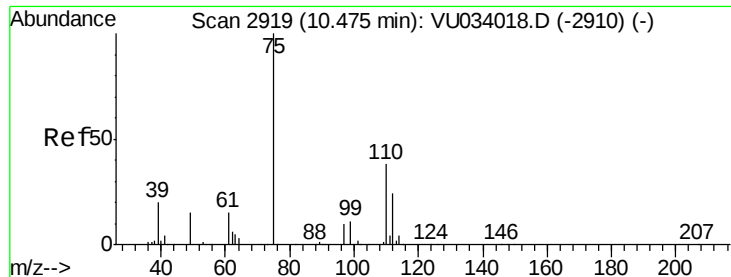
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0





#76

1,2,3-Trichloropropane

Concen: 20.308 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034075.D

Acq: 29 Aug 2019 20:19

Instrument :

MSVOA_U

ClientSampleId :

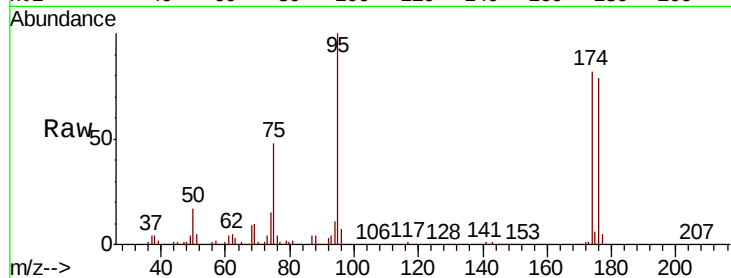
T9-12-13-Q3-(1.9)

Tgt Ion: 75 Resp: 163634

Ion Ratio Lower Upper

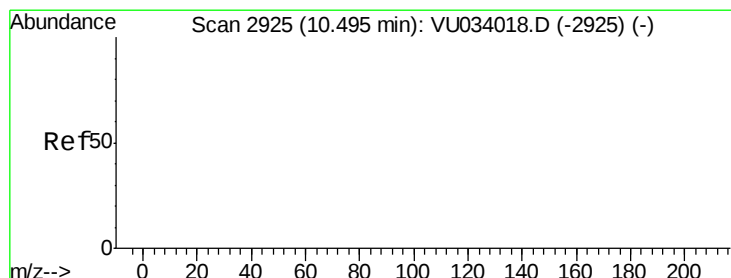
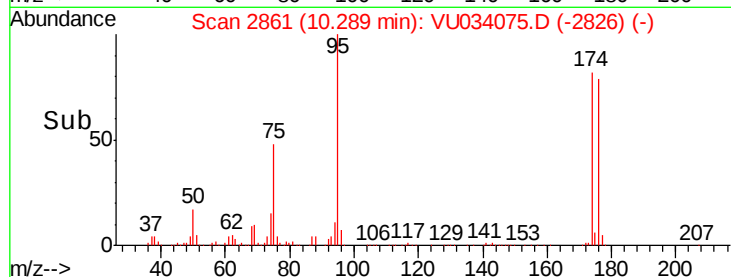
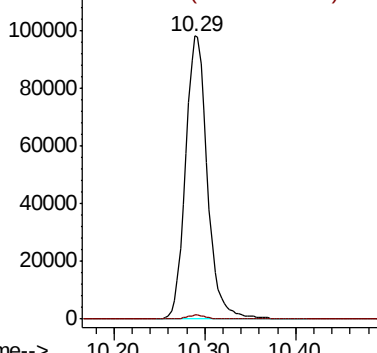
75 100

77 1.3 20.1 60.2#



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: 68.381 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.21 min

Lab File: VU034075.D

Acq: 29 Aug 2019 20:19

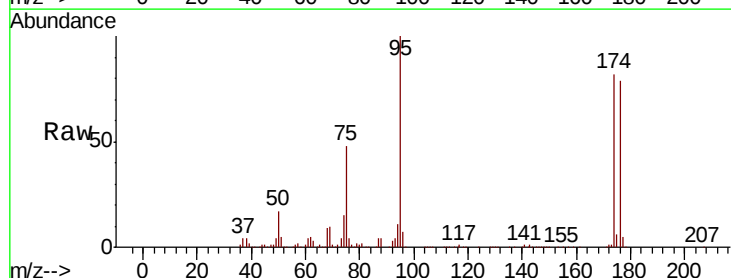
Tgt Ion: 75 Resp: 163634

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

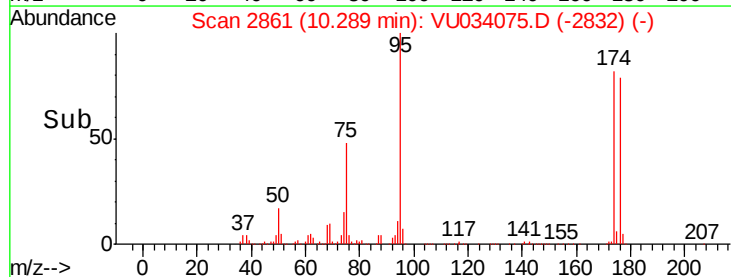
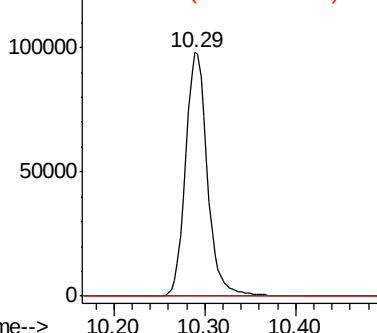
89 0.0 0.0 0.0

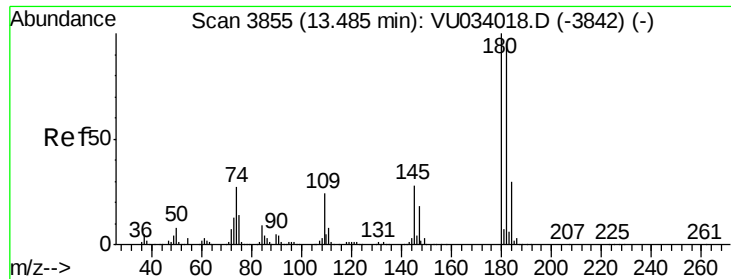


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

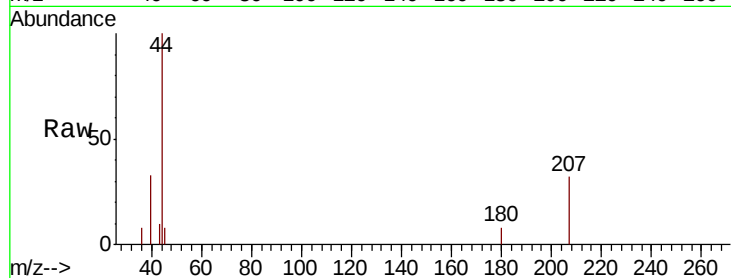




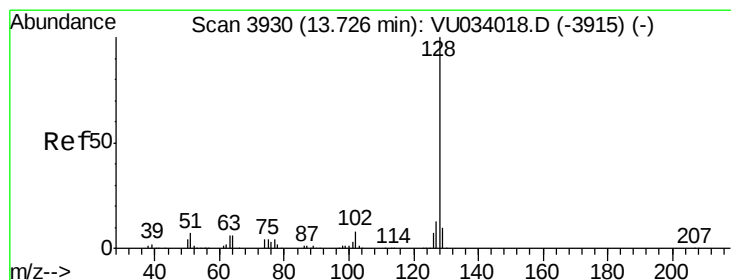
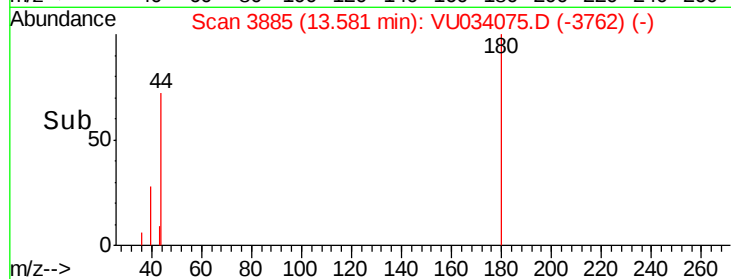
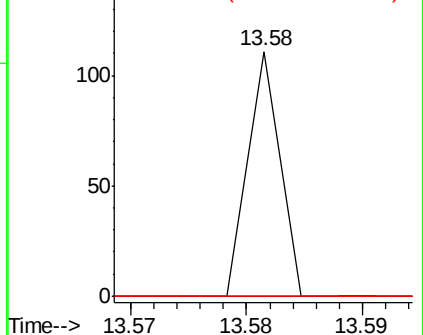
#93
 1,2,4-Trichlorobenzene
 Concen: 1.117 ug/l
 RT: 13.58 min Scan# 3885
 Delta R.T. 0.10 min
 Lab File: VU034075.D
 Acq: 29 Aug 2019 20:19

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-Q3-(1.9)

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.4	142.2#
145	0.0	14.1	42.3#

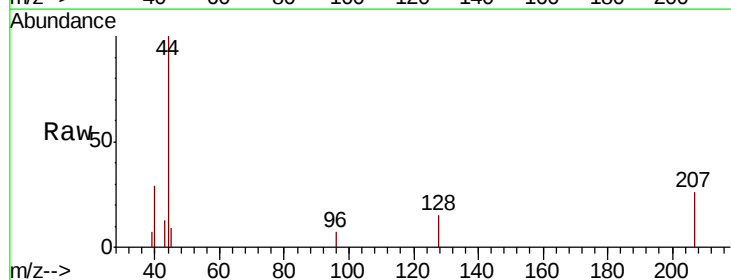


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 1.800 ug/l
 RT: 13.79 min Scan# 3949
 Delta R.T. 0.06 min
 Lab File: VU034075.D
 Acq: 29 Aug 2019 20:19

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.4#
129	0.0	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

