

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U112818\
 Data File : VU028377.D
 Acq On : 28 Nov 2018 19:45
 Operator : MD/SY
 Sample : PB115109ZHE#06
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB115109ZHE#06

Quant Time: Nov 29 06:20:05 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U112818W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 29 01:04:49 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	246019	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	457431	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	410010	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	167502	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	213635	51.96	ug/l	0.00
Spiked Amount			Recovery	=	103.92%	
35) Dibromofluoromethane	4.88	113	155480	51.12	ug/l	0.00
Spiked Amount			Recovery	=	102.24%	
50) Toluene-d8	7.57	98	606535	49.86	ug/l	0.00
Spiked Amount			Recovery	=	99.72%	
62) 4-Bromofluorobenzene	10.30	95	203115	46.33	ug/l	0.00
Spiked Amount			Recovery	=	92.66%	

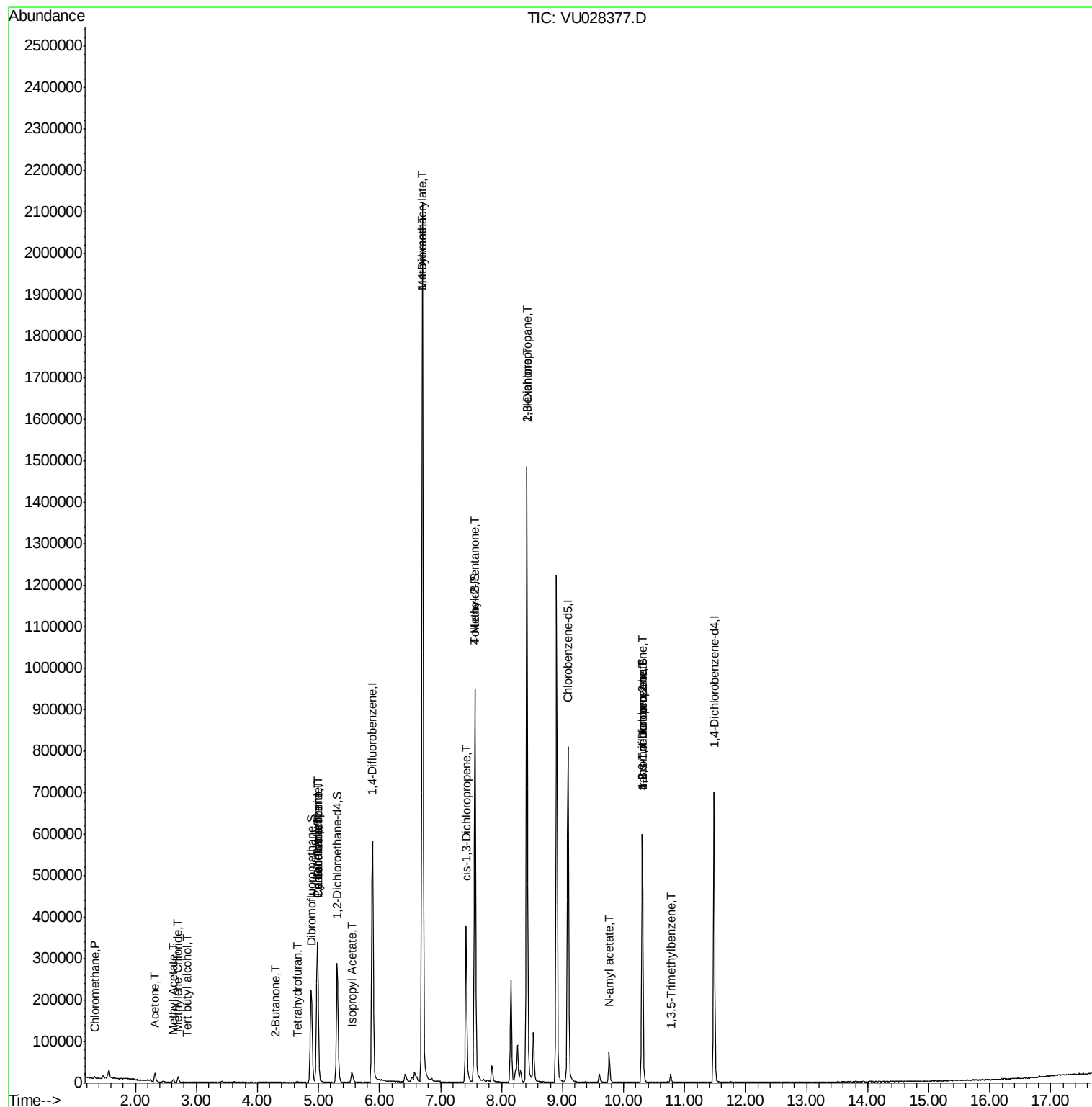
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	4053	0.634	ug/l	98
11) Tert butyl alcohol	2.84	59	754	0.807	ug/l #	72
16) Acetone	2.32	43	22771	9.053	ug/l	100
18) Methyl Acetate	2.62	43	8301	1.185	ug/l	100
20) Methylene Chloride	2.70	84	5401	1.450	ug/l	93
25) 2-Butanone	4.29	43	3433	0.952	ug/l #	80
29) Tetrahydrofuran	4.65	42	1151	0.492	ug/l #	80
31) Cyclohexane	4.98	56	5923	0.484	ug/l #	1
36) 1,1-Dichloropropene	4.98	75	22699	4.535	ug/l #	52
38) Carbon Tetrachloride	4.98	117	24979	6.077	ug/l #	16
43) Isopropyl Acetate	5.55	43	32629	3.018	ug/l	99
48) Methyl methacrylate	6.70	41	183275	32.549	ug/l #	47
49) 1,4-Dioxane	6.70	88	226	2.512	ug/l #	1
51) 4-Methyl-2-Pentanone	7.56	43	17932	2.597	ug/l	98
54) cis-1,3-Dichloropropene	7.42	75	60520	9.524	ug/l #	61
57) 1,3-Dichloropropane	8.41	76	13599	2.087	ug/l #	43
59) 2-Hexanone	8.41	43	219196	40.988	ug/l #	53
74) N-amyl acetate	9.76	43	23944	2.934	ug/l #	56
76) 1,2,3-Trichloropropane	10.30	75	106593	22.948	ug/l #	33
80) 1,3,5-Trimethylbenzene	10.77	105	10863	0.990	ug/l	96
81) trans-1,4-Dichloro-2-buten	10.30	75	106593	60.915	ug/l #	100

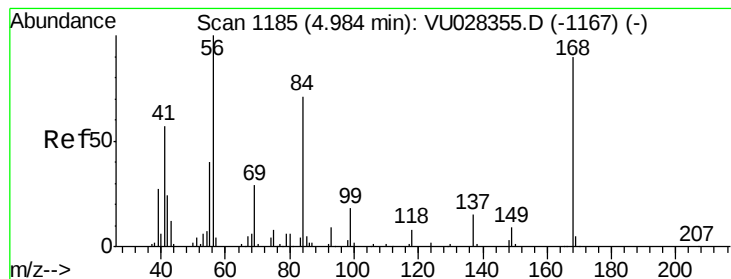
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 29 06:20:05 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U112818W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 29 01:04:49 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU028377.D

Acq: 28 Nov 2018 19:45

Instrument :

MSVOA_U

ClientSampleId :

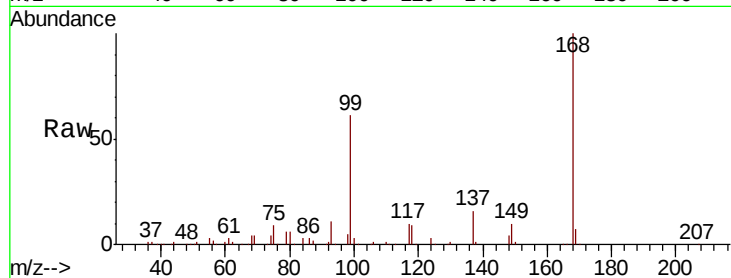
PB115109ZHE#06

Tot Ion:168 Resp: 246019

Ion Ratio Lower Upper

168 100

99 61.1 49.6 74.4



Abundance Ion 167.90 (167.60 to 168.60): VU028355.D

Ion 98.90 (98.60 to 99.60): VU028355.D

4.98

120000

100000

80000

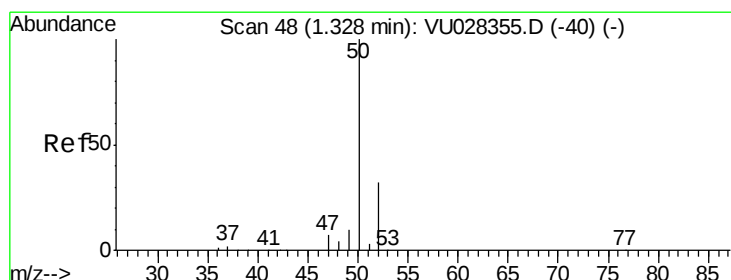
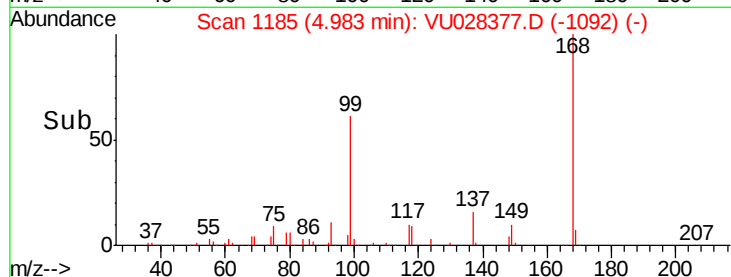
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.634 ug/l

RT: 1.33 min Scan# 49

Delta R.T. 0.00 min

Lab File: VU028377.D

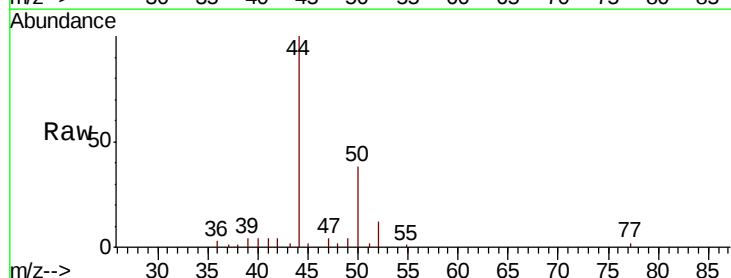
Acq: 28 Nov 2018 19:45

Tgt Ion: 50 Resp: 4053

Ion Ratio Lower Upper

50 100

52 32.8 25.4 38.2



Abundance Ion 49.90 (49.60 to 50.60): VU028355.D

Ion 51.90 (51.60 to 52.60): VU028355.D

1.33

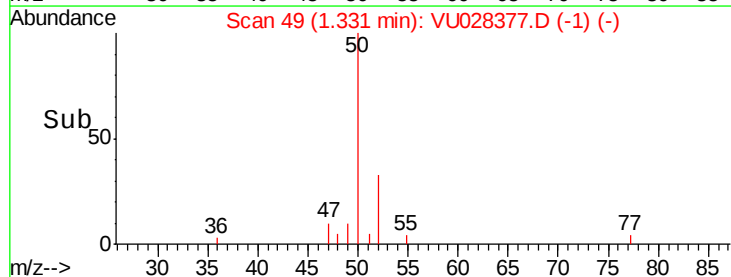
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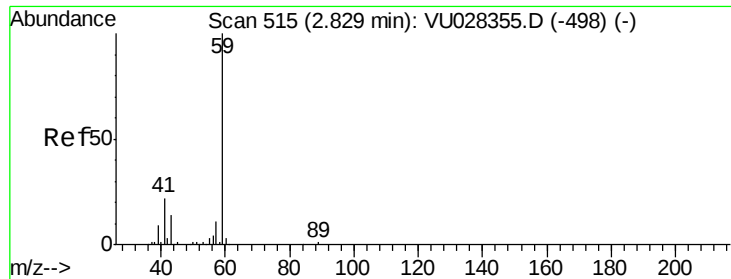
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1000

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Time-->

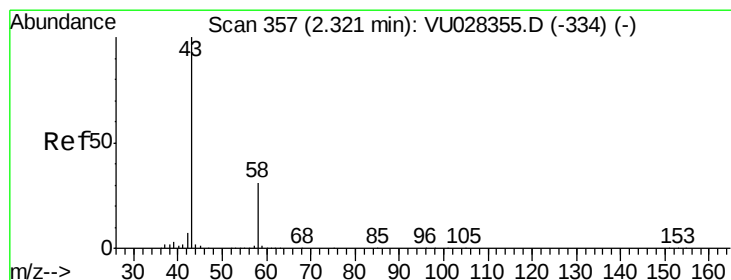
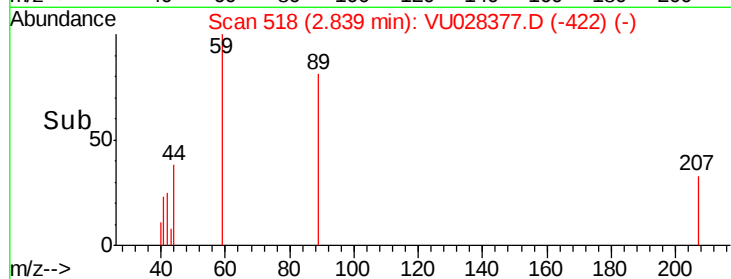
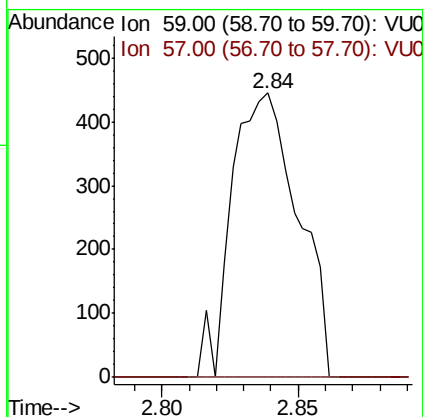
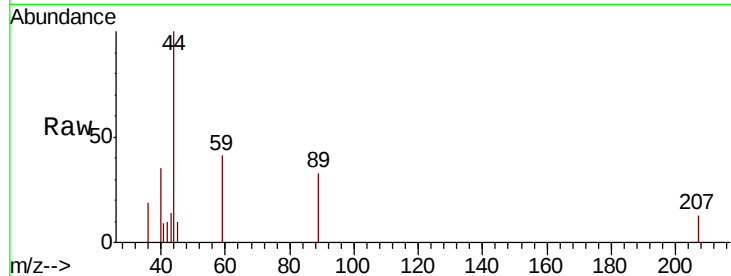




#11
Tert butyl alcohol
Concen: 0.807 ug/l
RT: 2.84 min Scan# 518
Delta R.T. 0.01 min
Lab File: VU028377.D
Acq: 28 Nov 2018 19:45

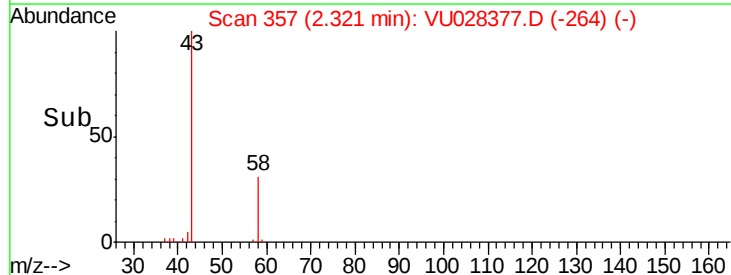
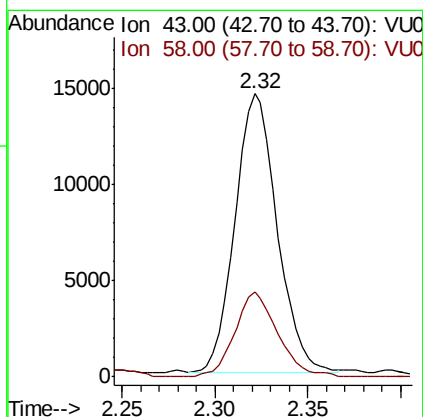
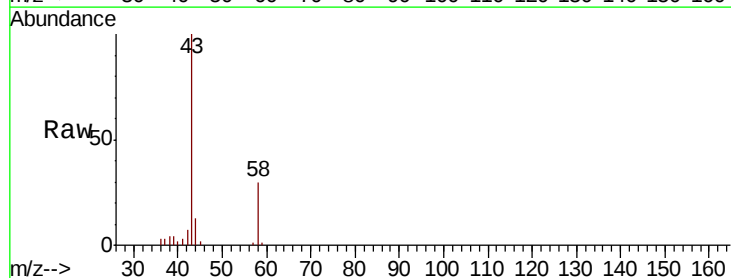
Instrument :
MSVOA_U
ClientSampleId :
PB115109ZHE#06

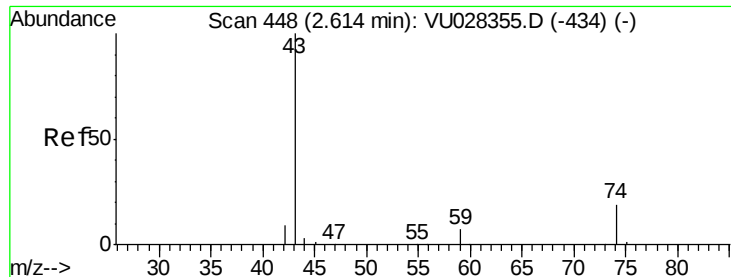
Tot Ion: 59 Resp: 754
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#16
Acetone
Concen: 9.053 ug/l
RT: 2.32 min Scan# 357
Delta R.T. -0.00 min
Lab File: VU028377.D
Acq: 28 Nov 2018 19:45

Tgt Ion: 43 Resp: 22771
Ion Ratio Lower Upper
43 100
58 30.3 24.4 36.6

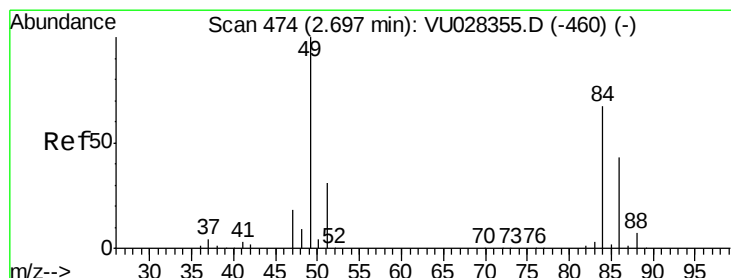
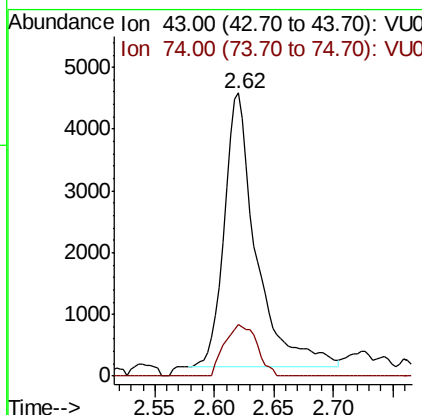
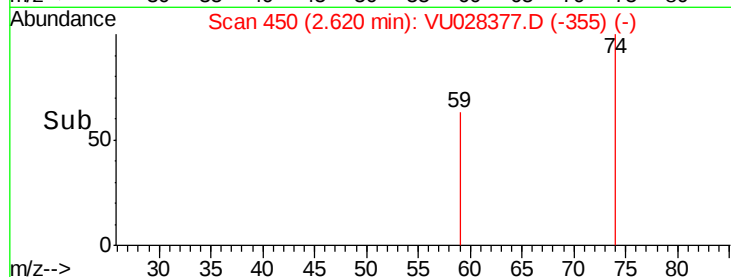
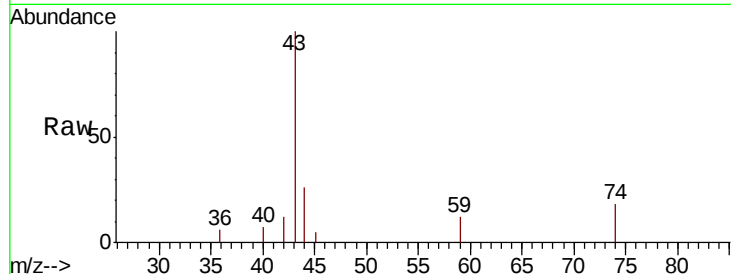




#18
Methvl Acetate
Concen: 1.185 ug/l
RT: 2.62 min Scan# 450
Delta R.T. 0.01 min
Lab File: VU028377.D
Acq: 28 Nov 2018 19:45

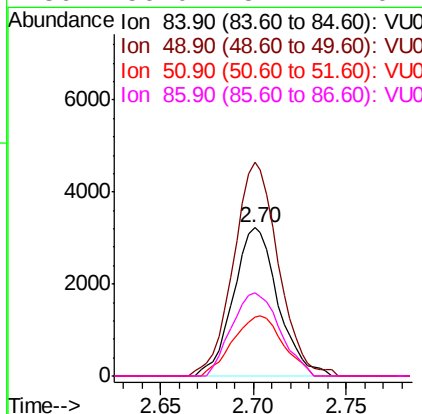
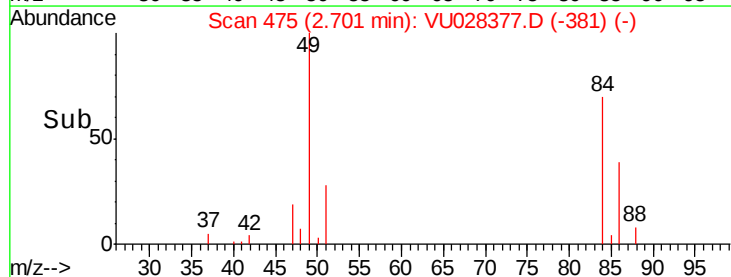
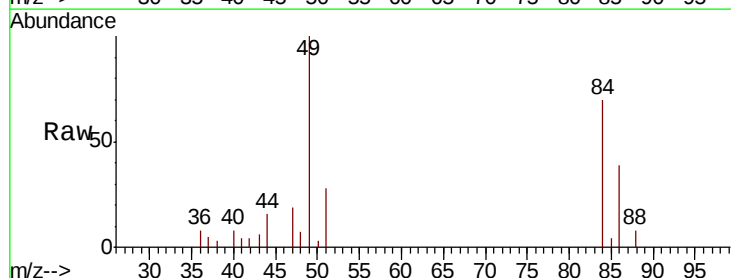
Instrument :
MSVOA_U
ClientSampleId :
PB115109ZHE#06

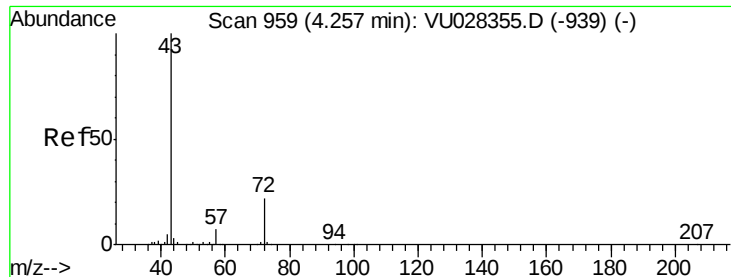
Tot Ion: 43 Resp: 8301
Ion Ratio Lower Upper
43 100
74 19.0 15.3 22.9



#20
Methylene Chloride
Concen: 1.450 ug/l
RT: 2.70 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU028377.D
Acq: 28 Nov 2018 19:45

Tgt Ion: 84 Resp: 5401
Ion Ratio Lower Upper
84 100
49 143.9 120.0 180.0
51 39.7 36.9 55.3
86 56.0 51.1 76.7





#25

2-Butanone

Concen: 0.952 ug/l

RT: 4.29 min Scan# 968

Delta R.T. 0.03 min

Lab File: VU028377.D

Acq: 28 Nov 2018 19:45

Instrument :

MSVOA_U

ClientSampleId :

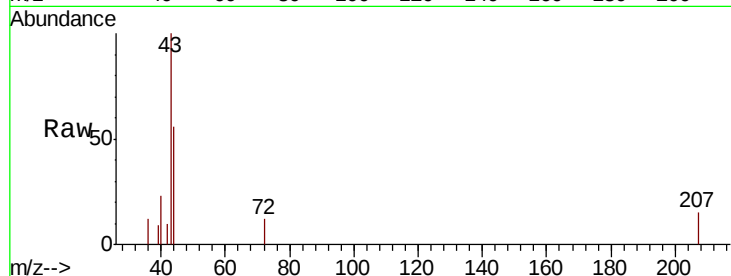
PB115109ZHE#06

Tot Ion: 43 Resp: 3433

Ion Ratio Lower Upper

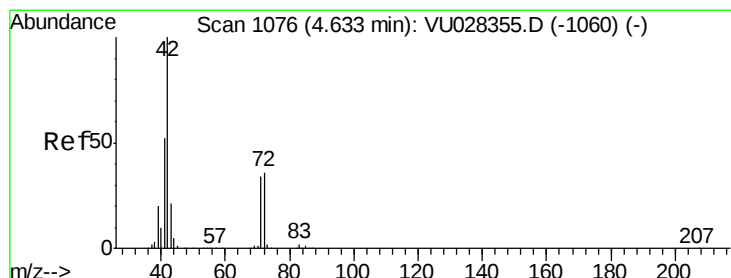
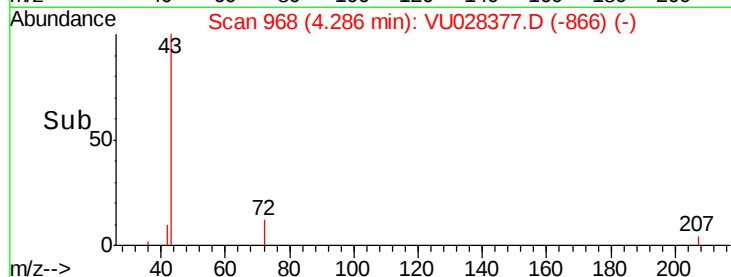
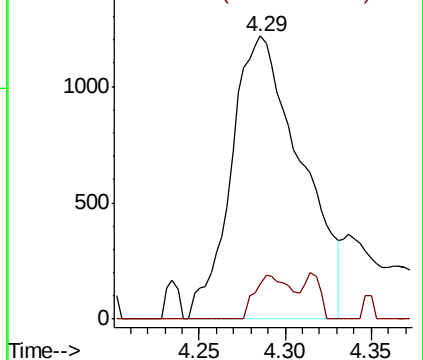
43 100

72 12.3 17.7 26.5#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0



#29

Tetrahydrofuran

Concen: 0.492 ug/l

RT: 4.65 min Scan# 1080

Delta R.T. 0.01 min

Lab File: VU028377.D

Acq: 28 Nov 2018 19:45

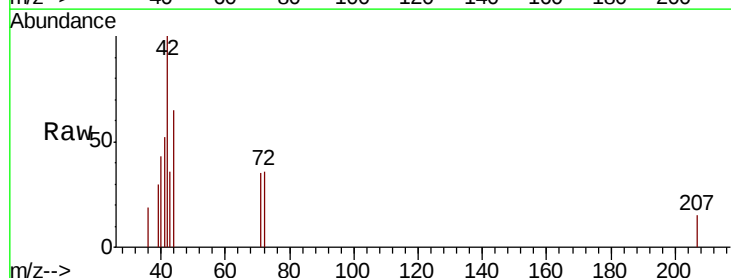
Tgt Ion: 42 Resp: 1151

Ion Ratio Lower Upper

42 100

72 36.4 29.5 44.3

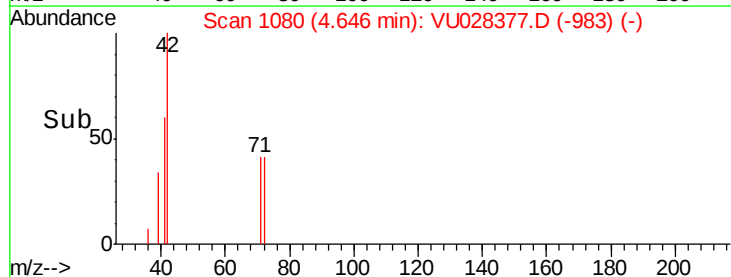
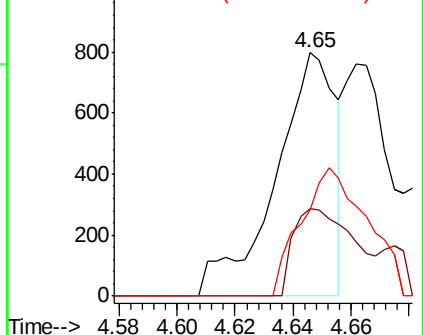
71 57.6 27.7 41.5#

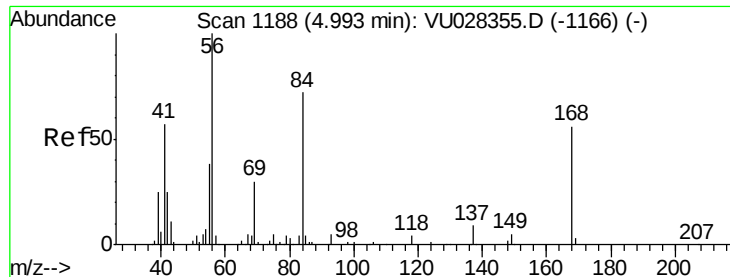


Abundance Ion 42.00 (41.70 to 42.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

Ion 71.00 (70.70 to 71.70): VU0

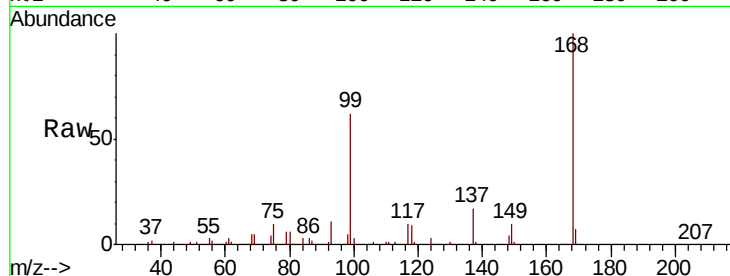




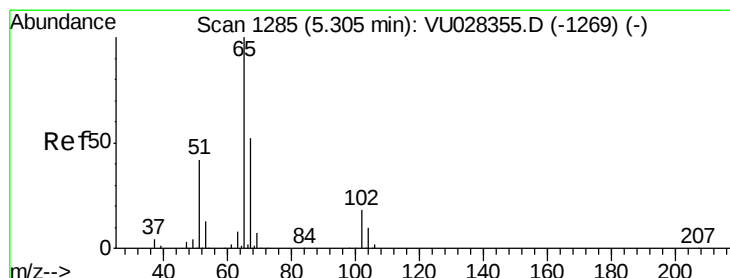
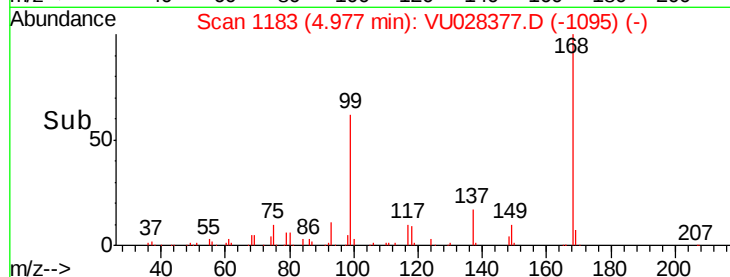
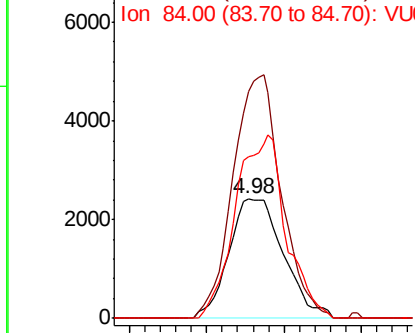
#31
Cyclohexane
Concen: 0.484 ug/l
RT: 4.98 min Scan# 1183
Delta R.T. -0.02 min
Lab File: VU028377.D
Acq: 28 Nov 2018 19:45

Instrument :
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ClientSampleId :
PB115109ZHE#06

Tot Ion: 56 Resp: 5923
Ion Ratio Lower Upper
56 100
69 189.4 23.7 35.5#
84 135.1 57.3 85.9#

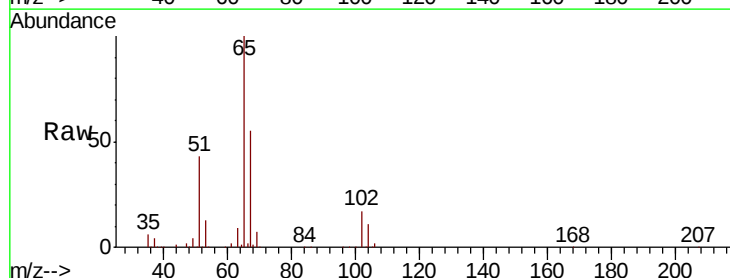


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

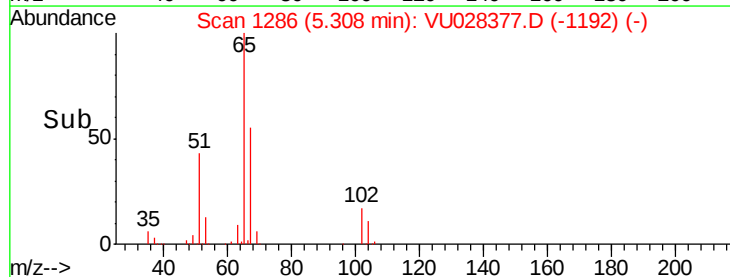
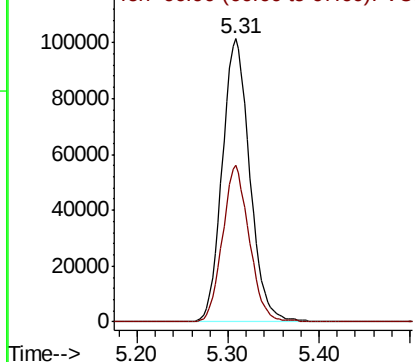


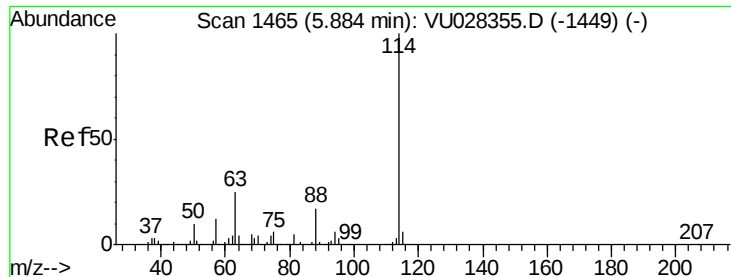
#33
1,2-Dichloroethane-d4
Concen: 51.959 ug/l
RT: 5.31 min Scan# 1286
Delta R.T. 0.00 min
Lab File: VU028377.D
Acq: 28 Nov 2018 19:45

Tgt Ion: 65 Resp: 213635
Ion Ratio Lower Upper
65 100
67 53.5 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0

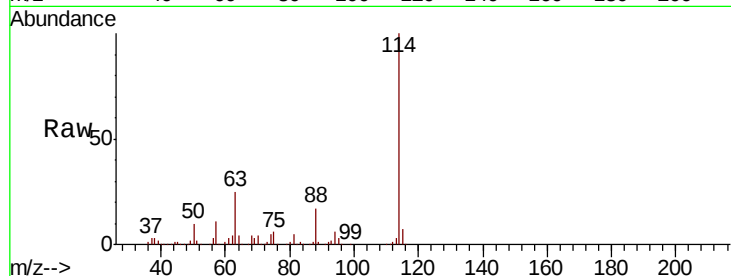




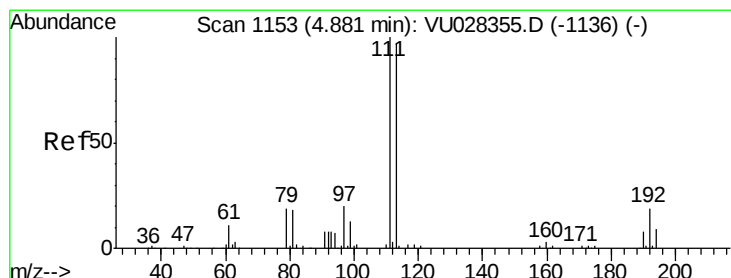
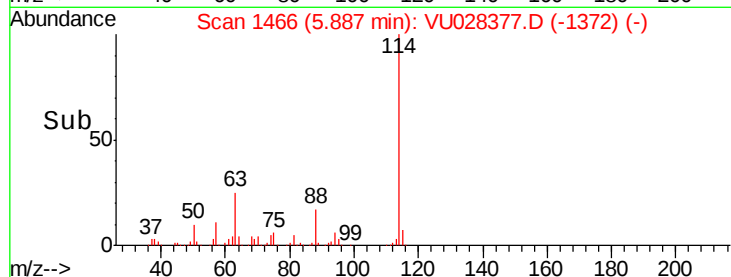
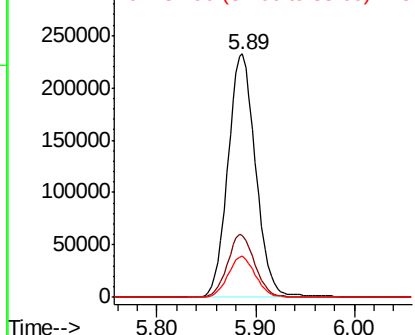
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. 0.00 min
 Lab File: VU028377.D
 Acq: 28 Nov 2018 19:45

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Tot Ion	Ratio	Lower	Upper
114	100		
63	25.3	0.0	50.0
88	16.8	0.0	34.4

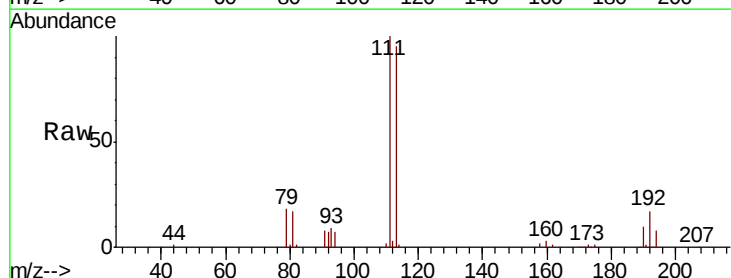


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

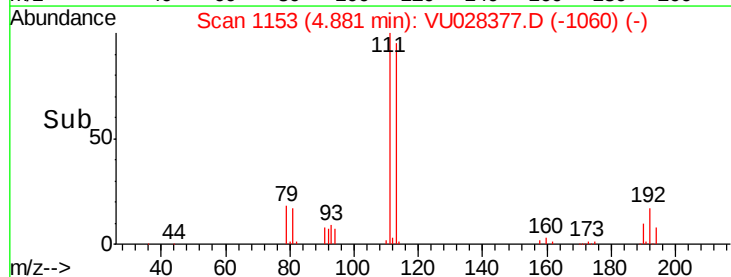
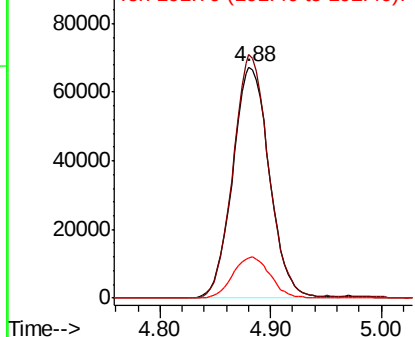


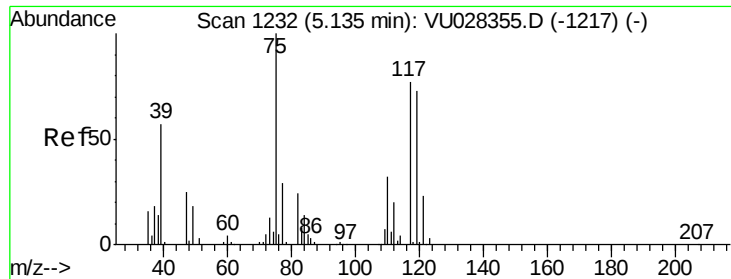
#35
 Dibromofluoromethane
 Concen: 51.116 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. -0.00 min
 Lab File: VU028377.D
 Acq: 28 Nov 2018 19:45

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.9	124.3
192	18.0	15.4	23.0



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

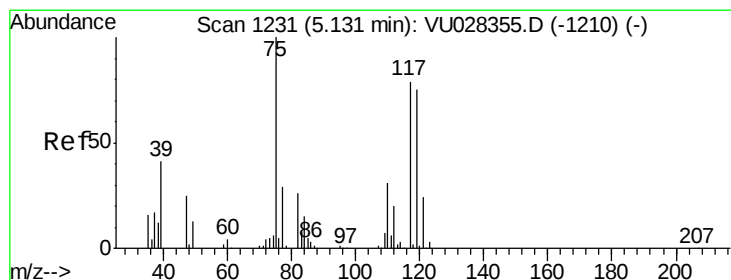
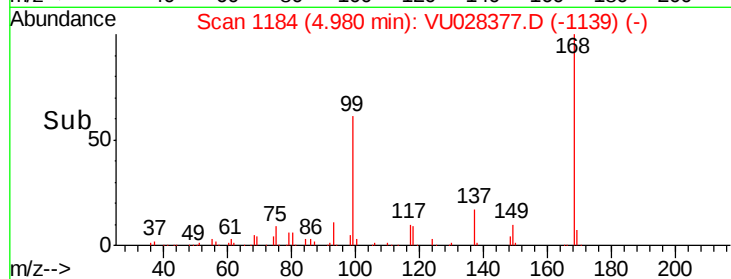
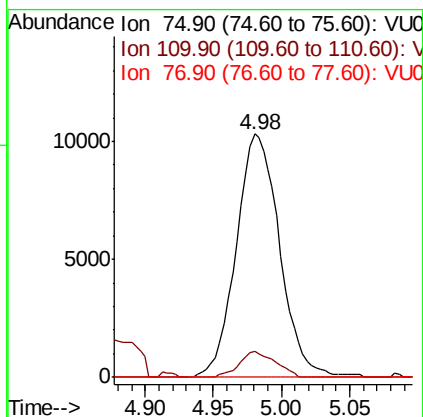
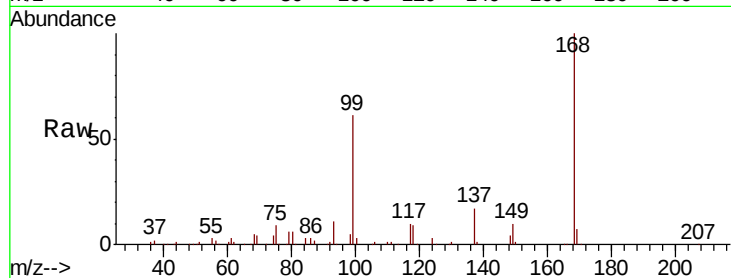




#36
 1,1-Dichloropropene
 Concen: 4.535 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU028377.D
 Acq: 28 Nov 2018 19:45

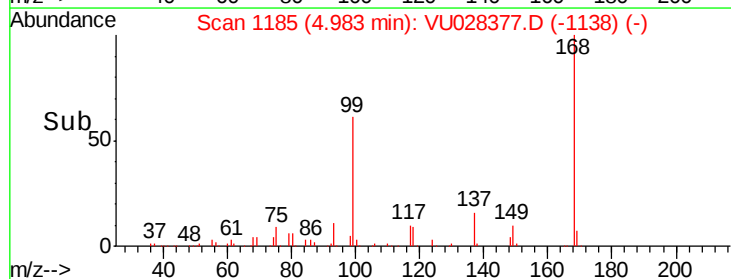
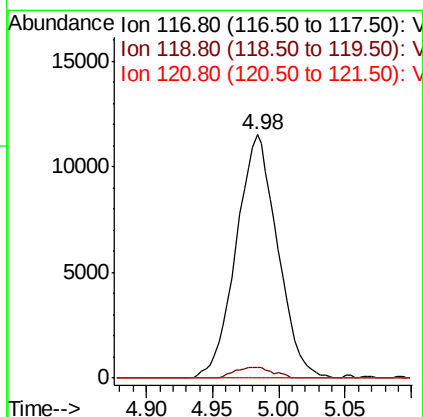
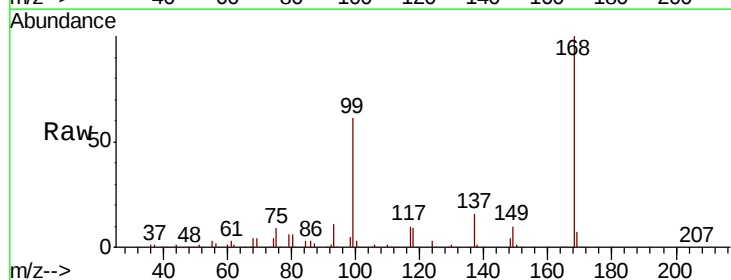
Instrument :
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 ClientSampleId :
 PB115109ZHE#06

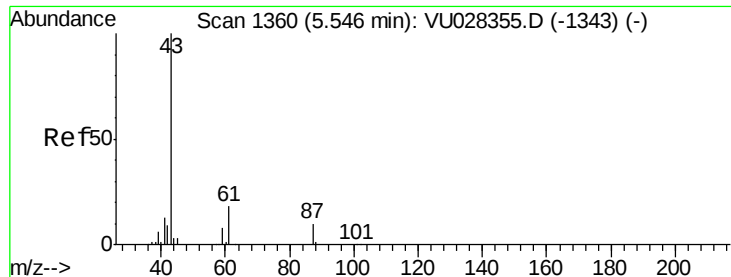
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.9	15.8	47.4#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 6.077 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU028377.D
 Acq: 28 Nov 2018 19:45

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.4	76.3	114.5#
121	0.0	24.7	37.1#





#43

Isopropyl Acetate

Concen: 3.018 ug/l

RT: 5.55 min Scan# 1361

Delta R.T. 0.00 min

Lab File: VU028377.D

Acq: 28 Nov 2018 19:45

Instrument :

MSVOA_U

ClientSampleId :

PB115109ZHE#06

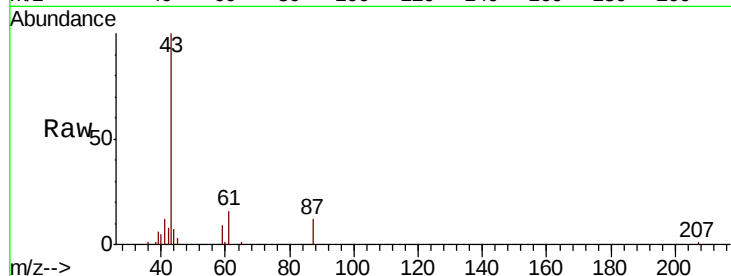
Tot Ion: 43 Resp: 32629

Ion Ratio Lower Upper

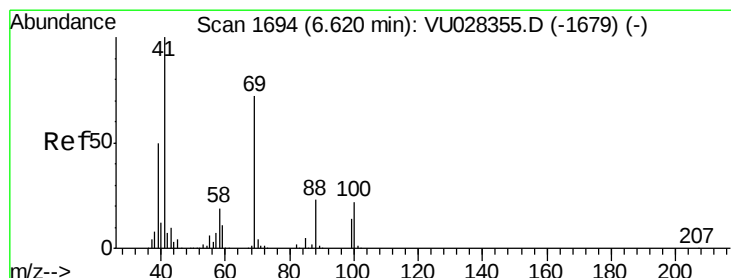
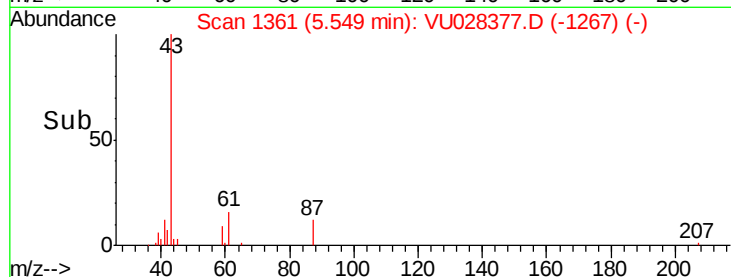
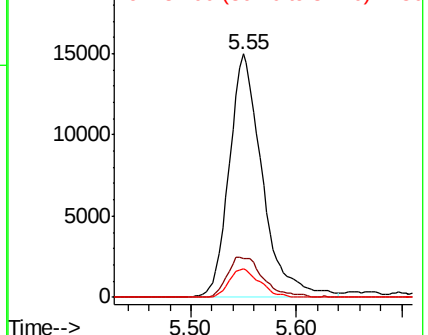
43 100

61 17.7 14.5 21.7

87 10.6 8.4 12.6



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: 32.549 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.08 min

Lab File: VU028377.D

Acq: 28 Nov 2018 19:45

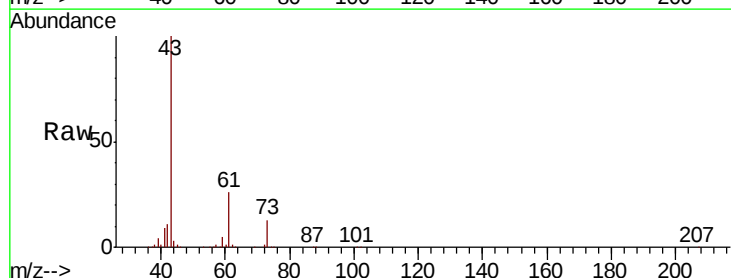
Tgt Ion: 41 Resp: 183275

Ion Ratio Lower Upper

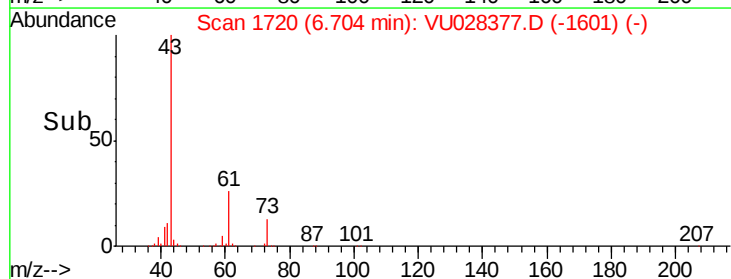
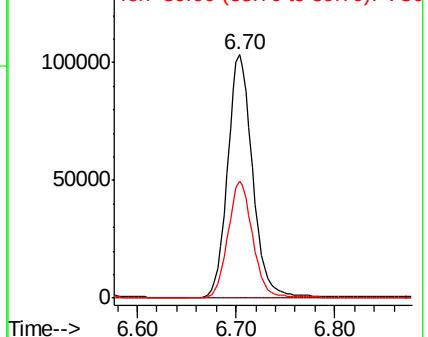
41 100

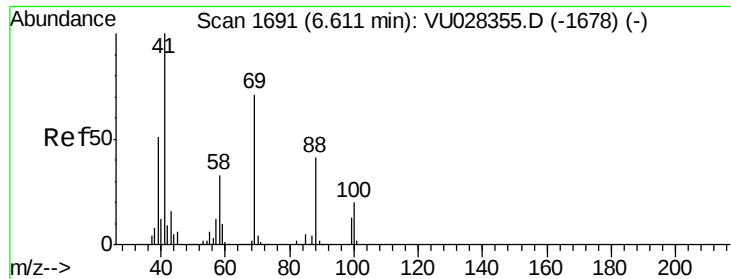
69 0.1 59.0 88.4#

39 47.6 40.5 60.7



Abundance Ion 41.00 (40.70 to 41.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 39.00 (38.70 to 39.70): VU0





#49

1,4-Dioxane

Concen: 2.512 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.09 min

Lab File: VU028377.D

Acq: 28 Nov 2018 19:45

Instrument :

MSVOA_U

ClientSampleId :

PB115109ZHE#06

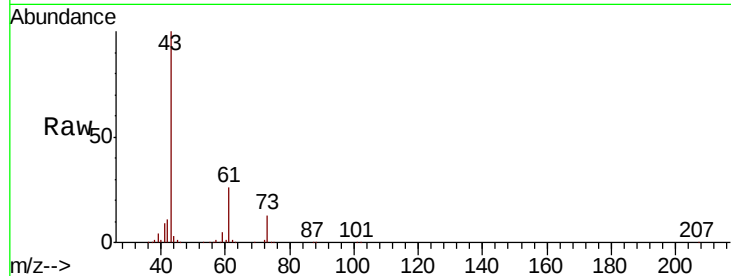
Tot Ion: 88 Resp: 226

Ion Ratio Lower Upper

88 100

43 920571.7 32.6 48.8#

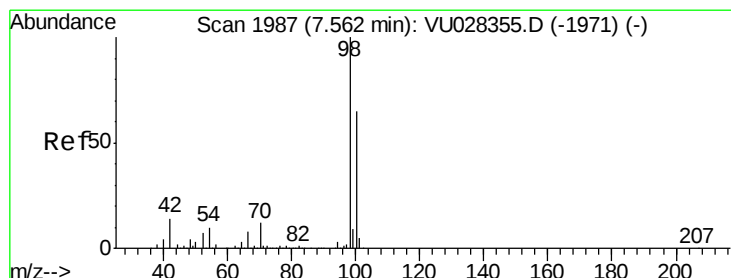
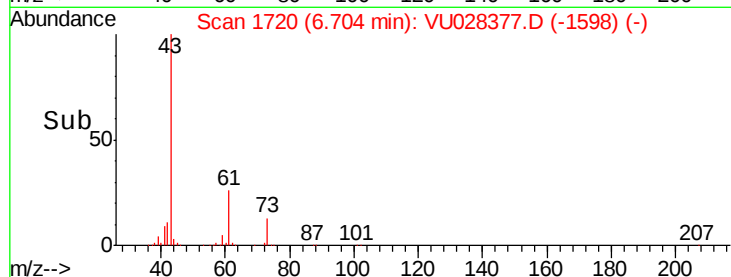
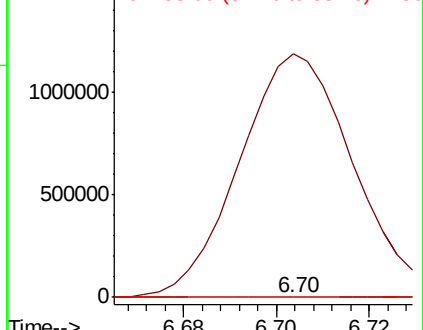
58 3587.2 68.7 103.1#



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: 49.860 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VU028377.D

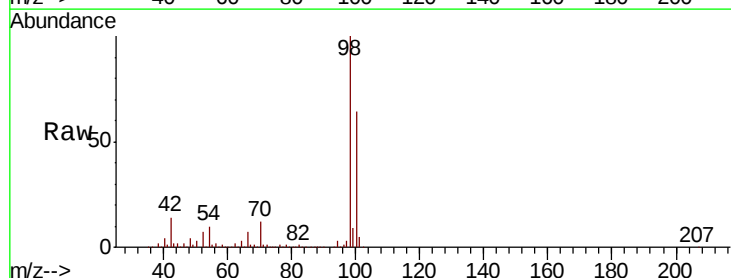
Acq: 28 Nov 2018 19:45

Tgt Ion: 98 Resp: 606535

Ion Ratio Lower Upper

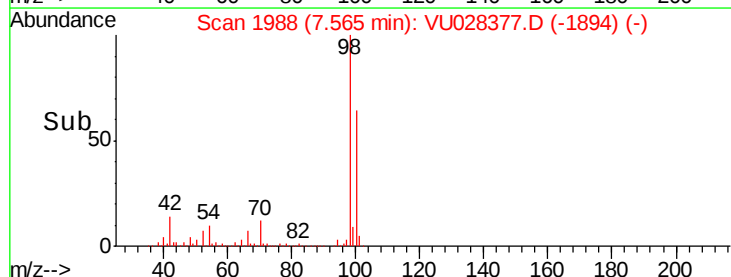
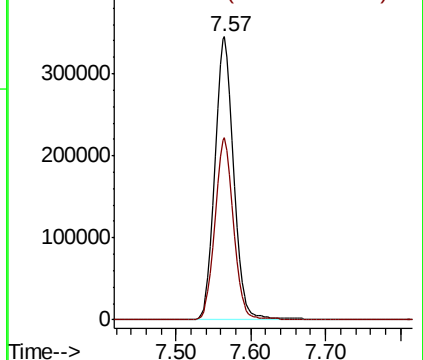
98 100

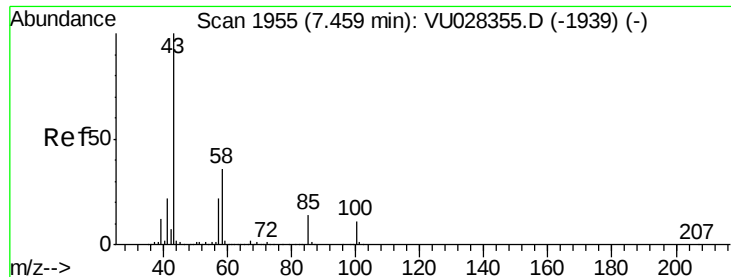
100 63.4 50.8 76.2



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: 2.597 ug/l

RT: 7.56 min Scan# 1986

Delta R.T. 0.10 min

Lab File: VU028377.D

Acq: 28 Nov 2018 19:45

Instrument :

MSVOA_U

ClientSampleId :

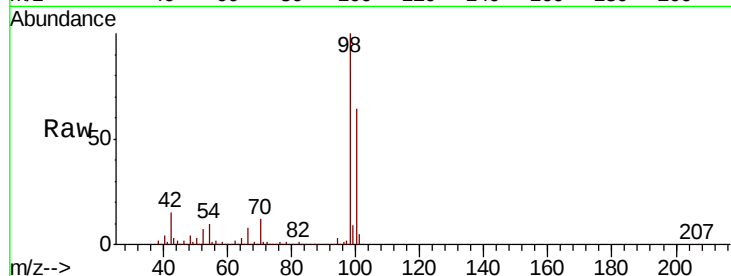
PB115109ZHE#06

Tot Ion: 43 Resp: 17932

Ion Ratio Lower Upper

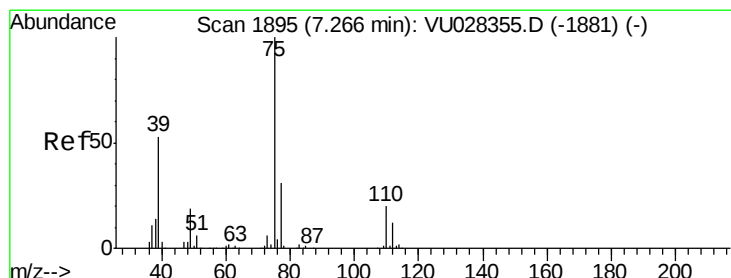
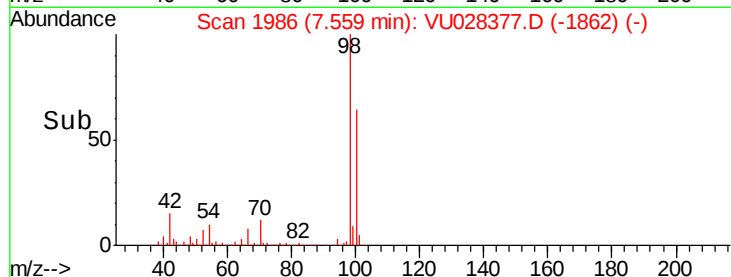
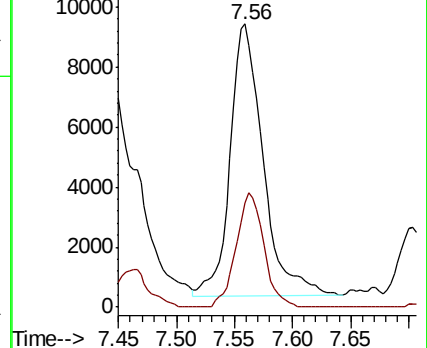
43 100

58 34.9 28.8 43.2



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#54

cis-1,3-Dichloropropene

Concen: 9.524 ug/l

RT: 7.42 min Scan# 1943

Delta R.T. 0.15 min

Lab File: VU028377.D

Acq: 28 Nov 2018 19:45

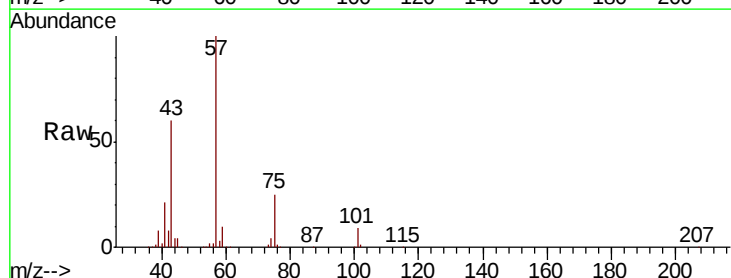
Tgt Ion: 75 Resp: 60520

Ion Ratio Lower Upper

75 100

77 0.3 24.9 37.3#

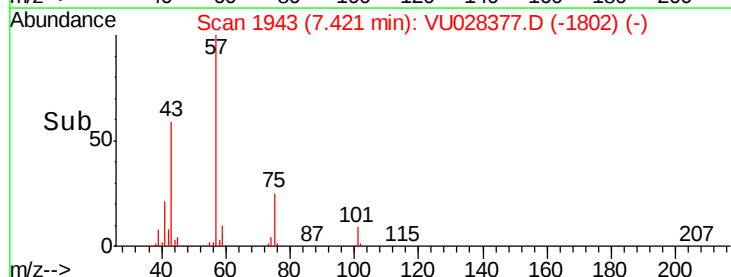
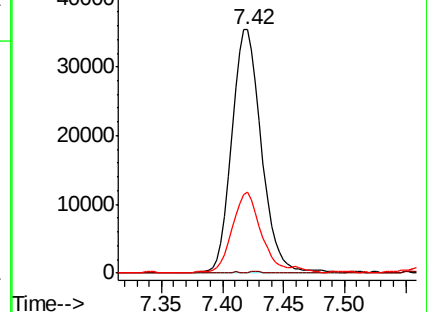
39 33.0 42.6 64.0#

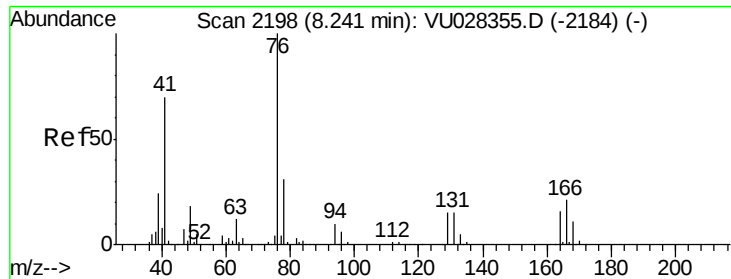


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0





#57

1,3-Dichloropropane

Concen: 2.087 ug/l

RT: 8.41 min Scan# 2252

Delta R.T. 0.17 min

Lab File: VU028377.D

Acq: 28 Nov 2018 19:45

Instrument :

MSVOA_U

ClientSampleId :

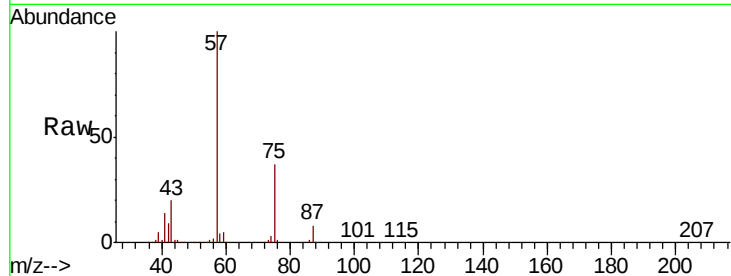
PB115109ZHE#06

Tot Ion: 76 Resp: 13599

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.0#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0

8.41

10000

8000

6000

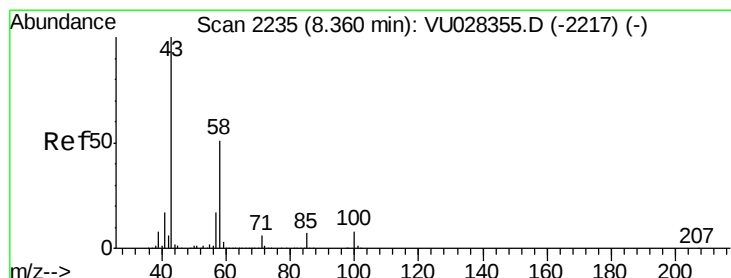
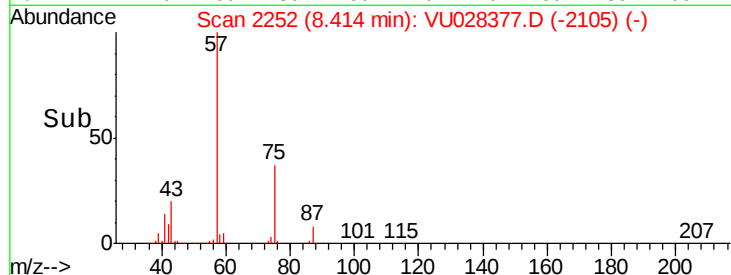
4000

2000

0

8.35 8.40 8.45 8.50

Time-->



#59

2-Hexanone

Concen: 40.988 ug/l

RT: 8.41 min Scan# 2252

Delta R.T. 0.05 min

Lab File: VU028377.D

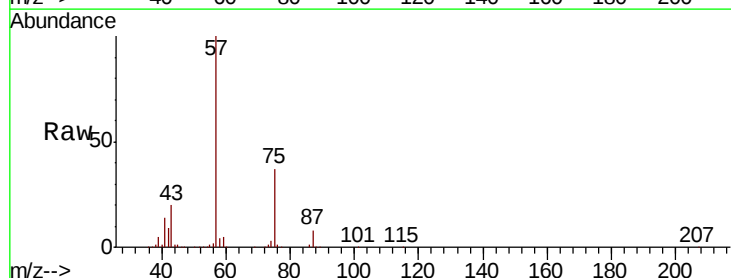
Acq: 28 Nov 2018 19:45

Tgt Ion: 43 Resp: 219196

Ion Ratio Lower Upper

43 100

58 18.2 25.5 76.5#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

8.41

150000

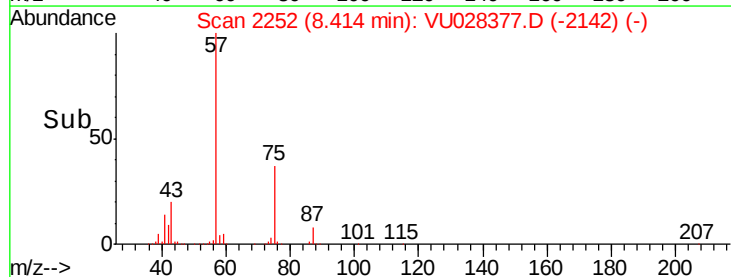
100000

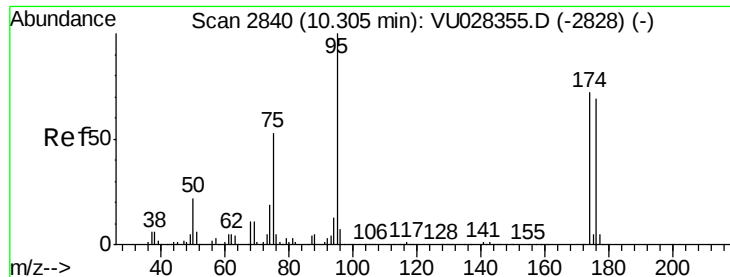
50000

0

8.35 8.40 8.45

Time-->





#62

4-Bromofluorobenzene

Concen: 46.325 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.00 min

Lab File: VU028377.D

Acq: 28 Nov 2018 19:45

Instrument :

MSVOA_U

ClientSampleId :

PB115109ZHE#06

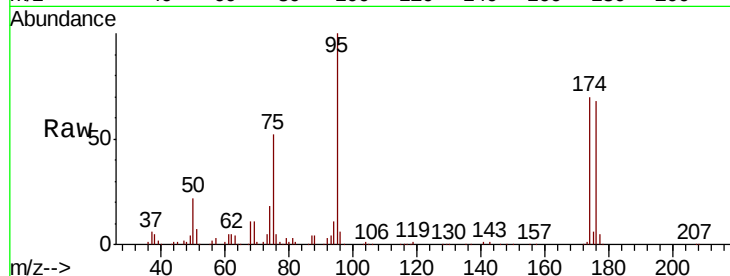
Tot Ion: 95 Resp: 203115

Ion Ratio Lower Upper

95 100

174 71.9 0.0 145.4

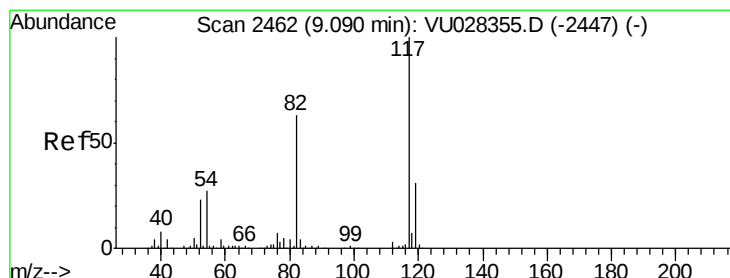
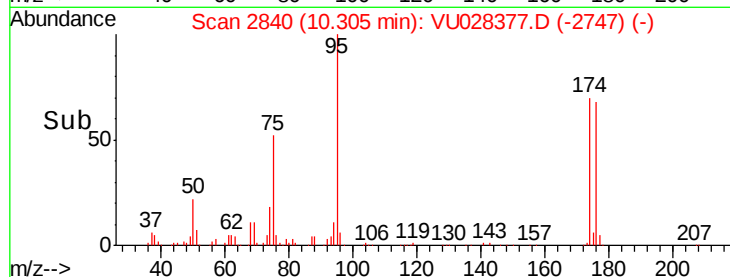
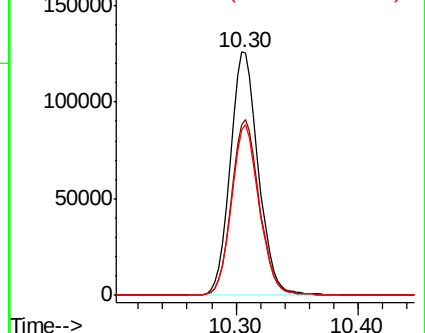
176 69.2 0.0 140.8



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: 9.09 min Scan# 2462

Delta R.T. -0.00 min

Lab File: VU028377.D

Acq: 28 Nov 2018 19:45

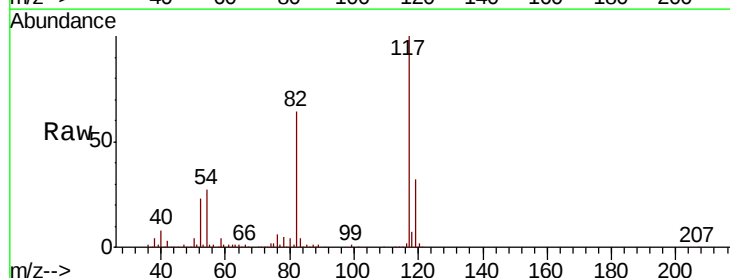
Tgt Ion: 117 Resp: 410010

Ion Ratio Lower Upper

117 100

82 63.9 50.3 75.5

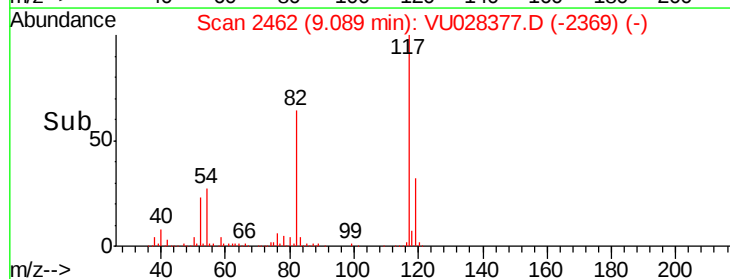
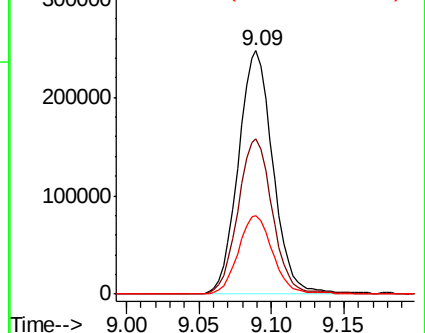
119 32.4 24.8 37.2

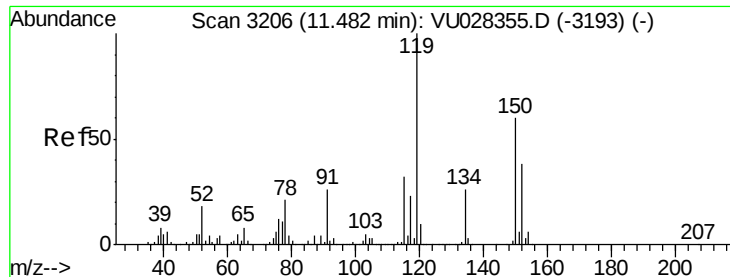


Abundance Ion 116.90 (116.60 to 117.60): V

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: 11.48 min Scan# 3206

Delta R.T. -0.00 min

Lab File: VU028377.D

Acq: 28 Nov 2018 19:45

Instrument :

MSVOA_U

ClientSampleId :

PB115109ZHE#06

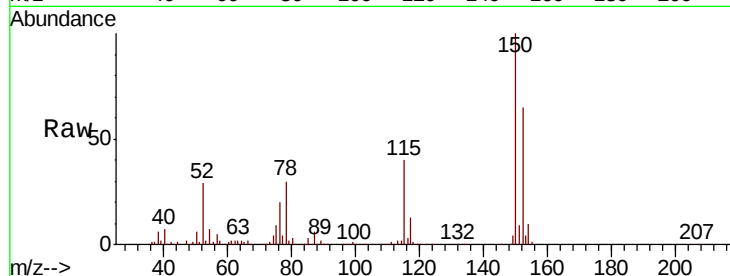
Tot Ion:152 Resp: 167502

Ion Ratio Lower Upper

152 100

115 60.7 45.0 134.8

150 153.8 0.0 349.2

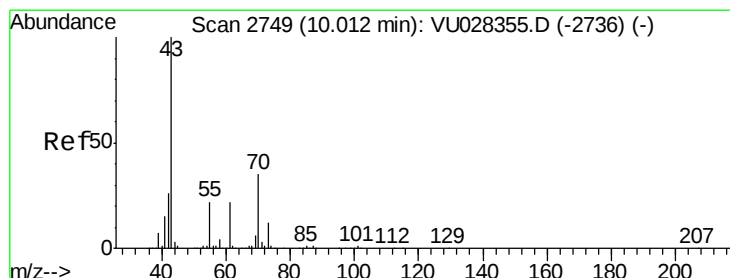
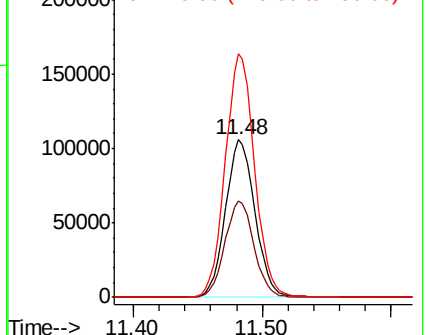
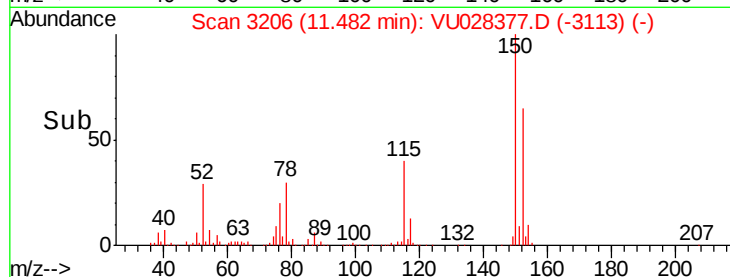


Abundance

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: 2.934 ug/l

RT: 9.76 min Scan# 2672

Delta R.T. -0.25 min

Lab File: VU028377.D

Acq: 28 Nov 2018 19:45

Tgt Ion: 43 Resp: 23944

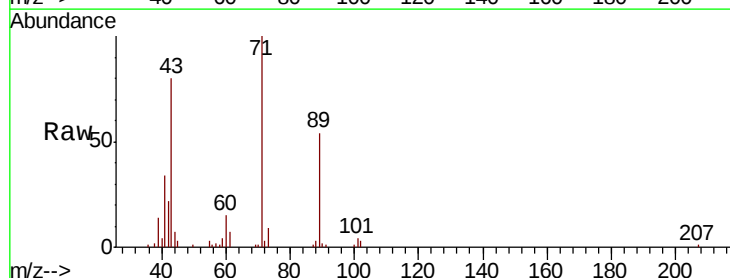
Ion Ratio Lower Upper

43 100

70 1.0 28.4 42.6#

55 3.7 18.0 27.0#

61 9.4 17.6 26.4#



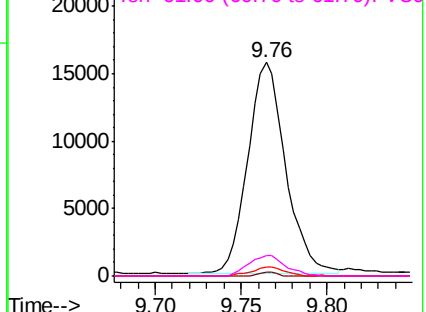
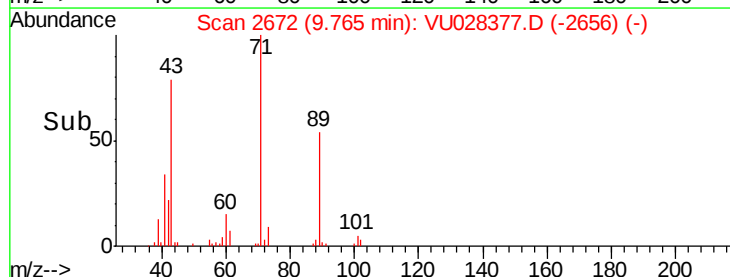
Abundance

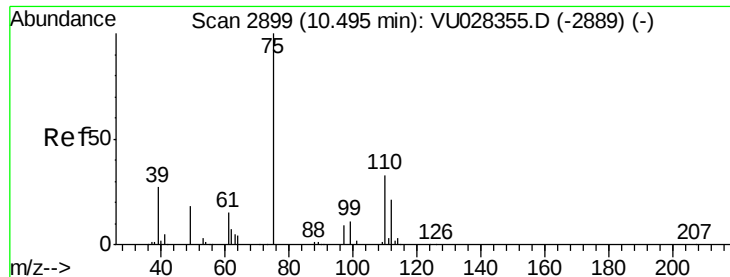
Ion 43.00 (42.70 to 43.70): VU0

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

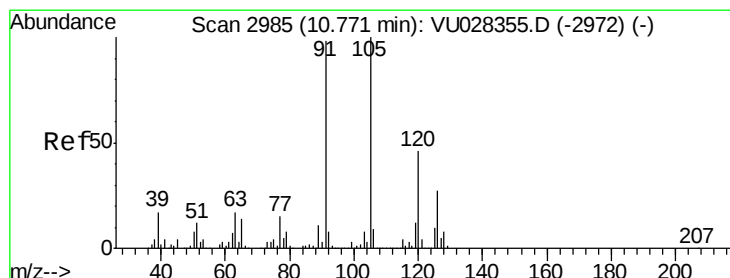
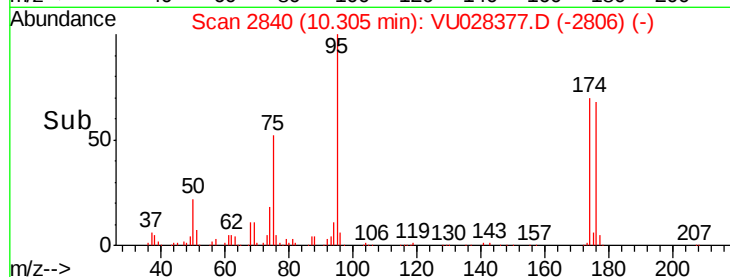
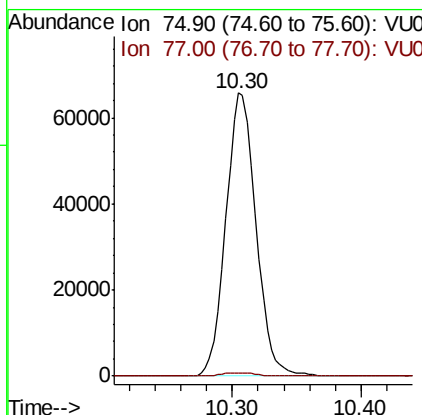
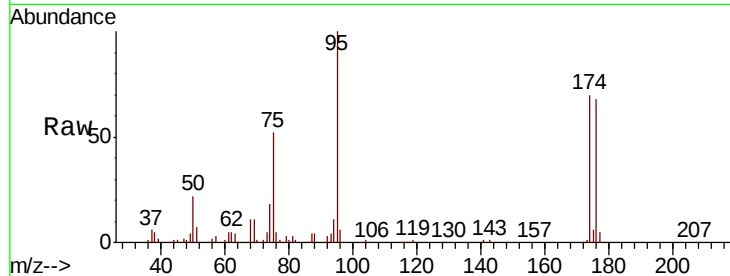




#76
 1,2,3-Trichloropropane
 Concen: 22.948 ug/l
 RT: 10.30 min Scan# 2840
 Delta R.T. -0.19 min
 Lab File: VU028377.D
 Acq: 28 Nov 2018 19:45

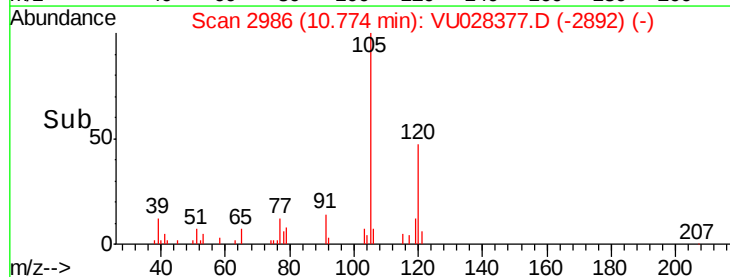
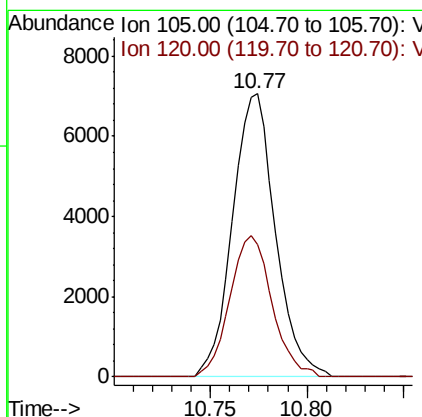
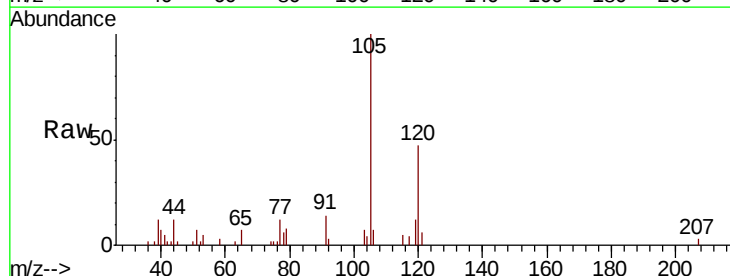
Instrument :
 MSVOA_U
 ClientSampleId :
 PB115109ZHE#06

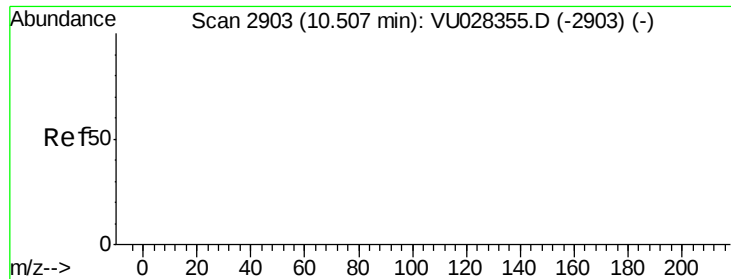
Tot Ion: 75 Resp: 106593
 Ion Ratio Lower Upper
 75 100
 77 1.2 22.4 67.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.990 ug/l
 RT: 10.77 min Scan# 2986
 Delta R.T. 0.00 min
 Lab File: VU028377.D
 Acq: 28 Nov 2018 19:45

Tgt Ion: 105 Resp: 10863
 Ion Ratio Lower Upper
 105 100
 120 49.1 23.4 70.0





#81

trans-1,4-Dichloro-2-butene

Concen: 60.915 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.20 min

Lab File: VU028377.D

Acq: 28 Nov 2018 19:45

Instrument :

MSVOA_U

ClientSampleId :

PB115109ZHE#06

Tot Ion: 75 Resp: 106593

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0

