

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U120318\
 Data File : VU028439.D
 Acq On : 03 Dec 2018 14:22
 Operator : MD/SY
 Sample : PB115231ZHE#16
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB115231ZHE#16

Quant Time: Dec 04 06:55:28 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	4.99	168	298706	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	556828	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	519825	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	240668	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	245148	49.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.22%	
35) Dibromofluoromethane	4.88	113	181646	49.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.12%	
50) Toluene-d8	7.57	98	720481	48.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.30%	
62) 4-Bromofluorobenzene	10.30	95	261739	49.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.08%	

Target Compounds

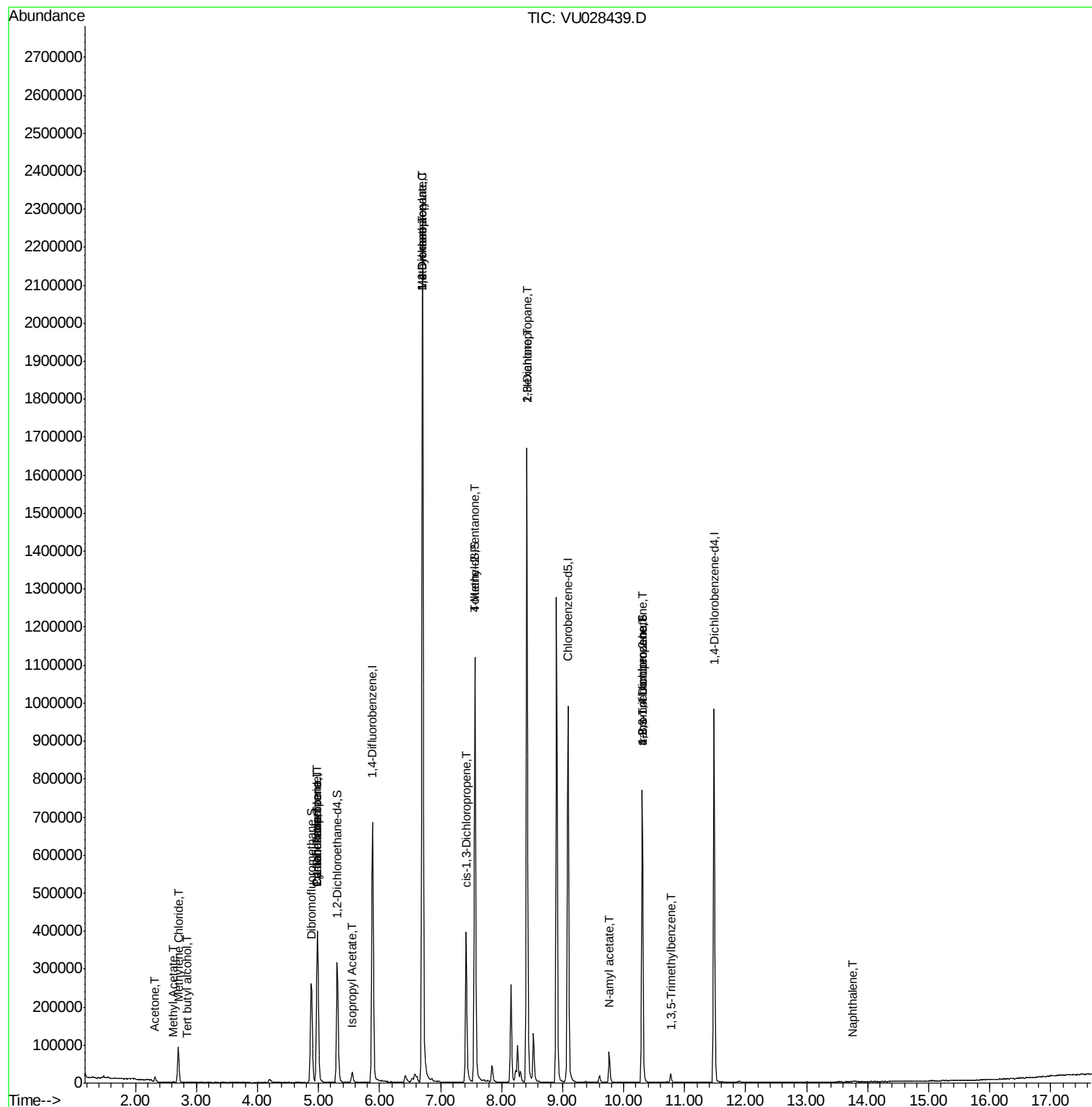
						Qvalue
11) Tert butyl alcohol	2.83	59	451	0.398	ug/l #	72
16) Acetone	2.32	43	14320	4.689	ug/l	92
18) Methyl Acetate	2.62	43	2483	0.292	ug/l #	90
20) Methylene Chloride	2.70	84	39632	9.141	ug/l	90
31) Cyclohexane	4.99	56	7393	0.508	ug/l #	1
36) 1,1-Dichloropropene	4.99	75	26354	4.325	ug/l #	50
38) Carbon Tetrachloride	4.98	117	27238	5.444	ug/l #	17
43) Isopropyl Acetate	5.56	43	34225	2.601	ug/l	97
45) 1,2-Dichloropropane	6.71	63	2349	0.444	ug/l #	43
48) Methyl methacrylate	6.70	41	200637	29.271	ug/l #	48
49) 1,4-Dioxane	6.70	88	299	2.731	ug/l #	1
51) 4-Methyl-2-Pentanone	7.56	43	16714	1.989	ug/l	91
54) cis-1,3-Dichloropropene	7.42	75	67200	8.688	ug/l #	57
57) 1,3-Dichloropropane	8.41	76	16265	2.051	ug/l #	43
59) 2-Hexanone	8.41	43	251790	38.678	ug/l #	52
74) N-amyl acetate	9.76	43	25888	2.207	ug/l #	56
76) 1,2,3-Trichloropropane	10.30	75	134542	20.159	ug/l #	33
80) 1,3,5-Trimethylbenzene	10.77	105	12447	0.789	ug/l	94
81) trans-1,4-Dichloro-2-buten	10.30	75	134542	53.513	ug/l #	100
95) Naphthalene	13.75	128	283	2.848	ug/l #	69

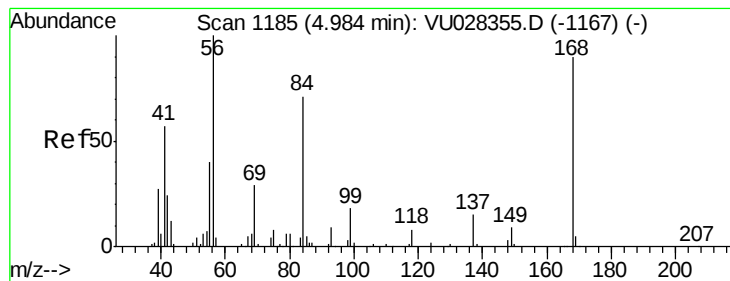
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU028439.D

Acq: 03 Dec 2018 14:22

Instrument :

MSVOA_U

ClientSampleId :

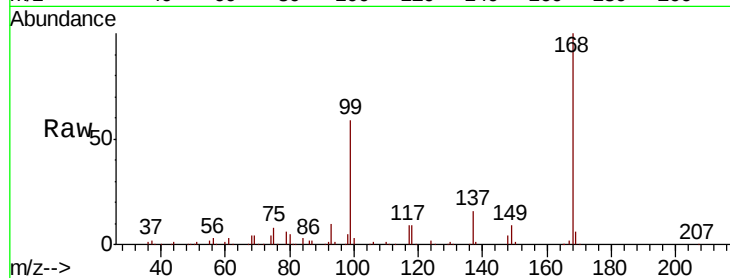
PB115231ZHE#16

Tot Ion:168 Resp: 298706

Ion Ratio Lower Upper

168 100

99 59.1 49.6 74.4



Abundance Ion 167.90 (167.60 to 168.60): VU028355.D (-1167) (-)

Ion 98.90 (98.60 to 99.60): VU028355.D (-1167) (-)

4.99

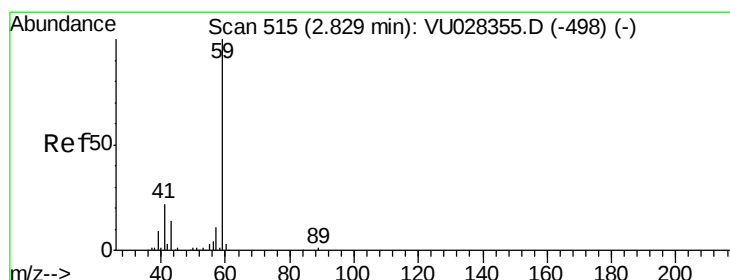
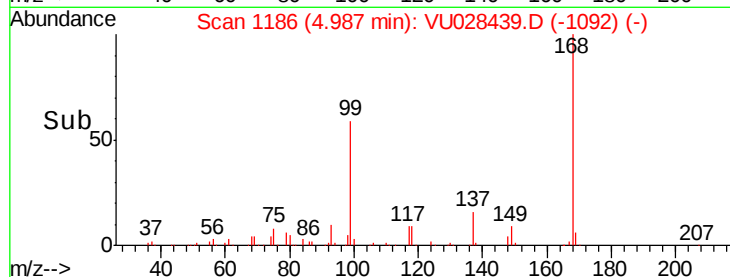
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.398 ug/l

RT: 2.83 min Scan# 516

Delta R.T. 0.00 min

Lab File: VU028439.D

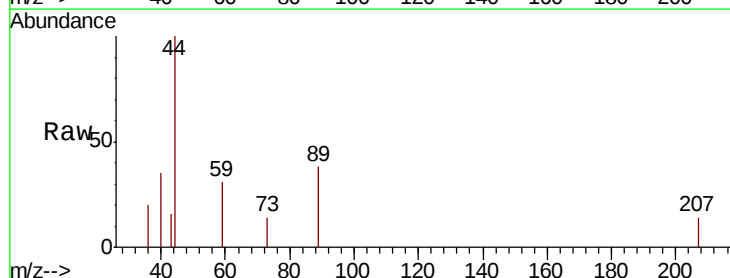
Acq: 03 Dec 2018 14:22

Tgt Ion: 59 Resp: 451

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VU028355.D (-498) (-)

Ion 57.00 (56.70 to 57.70): VU028355.D (-498) (-)

2.83

300

250

200

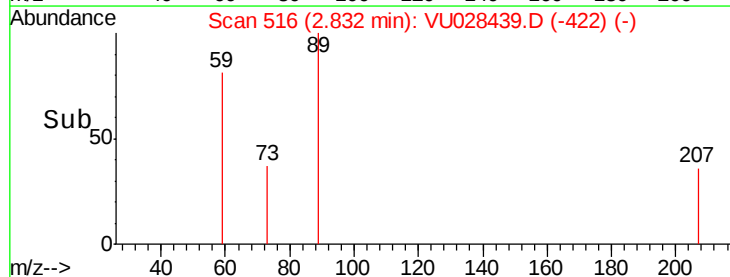
150

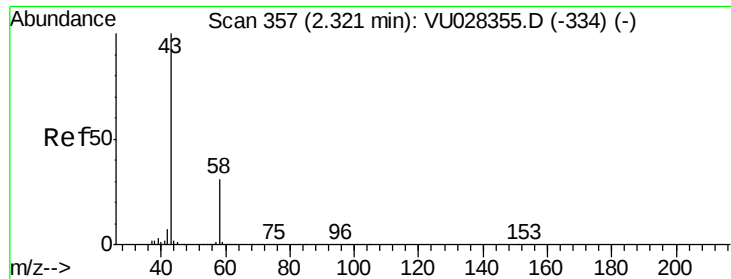
100

50

0

Time-->





#16

Acetone

Concen: 4.689 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU028439.D

Acq: 03 Dec 2018 14:22

Instrument :

MSVOA_U

ClientSampleId :

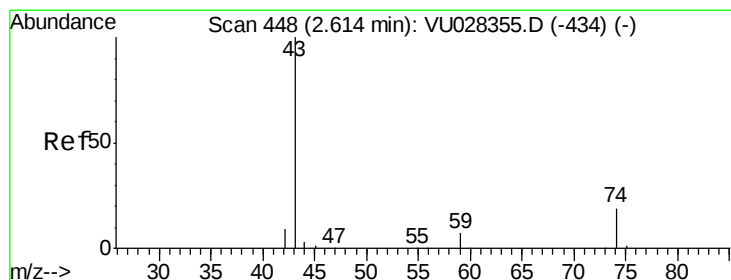
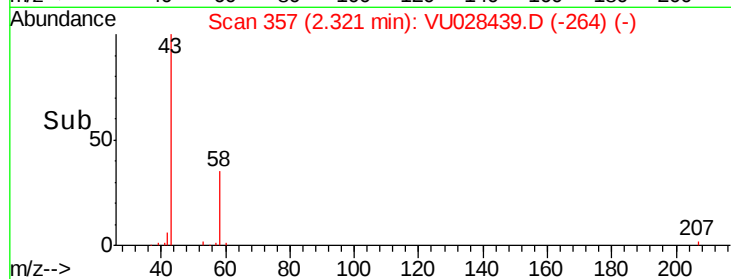
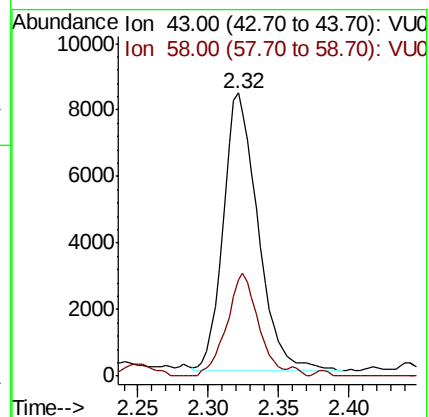
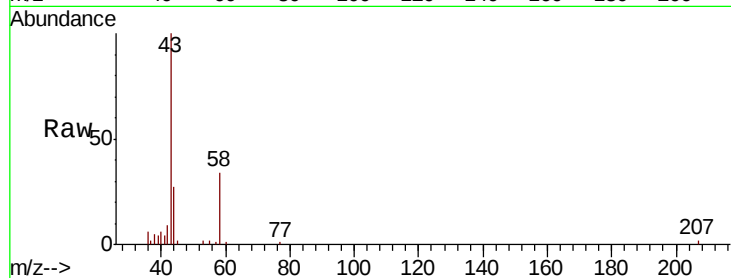
PB115231ZHE#16

Tot Ion: 43 Resp: 14320

Ion Ratio Lower Upper

43 100

58 34.8 24.4 36.6



#18

Methyl Acetate

Concen: 0.292 ug/l

RT: 2.62 min Scan# 451

Delta R.T. 0.01 min

Lab File: VU028439.D

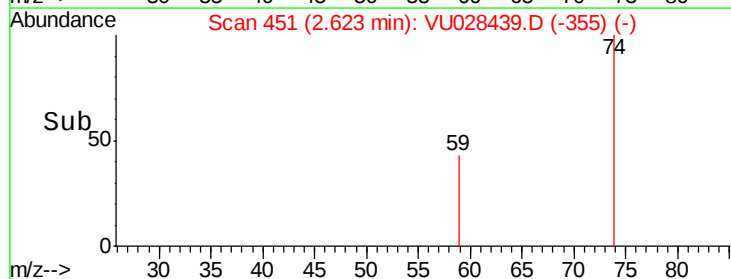
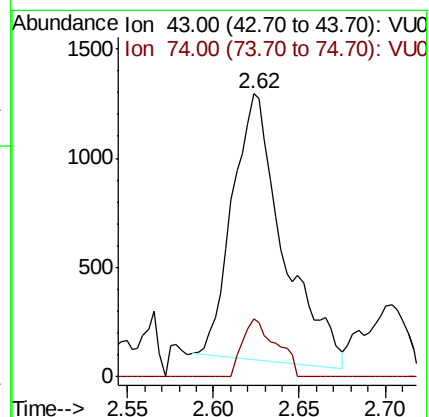
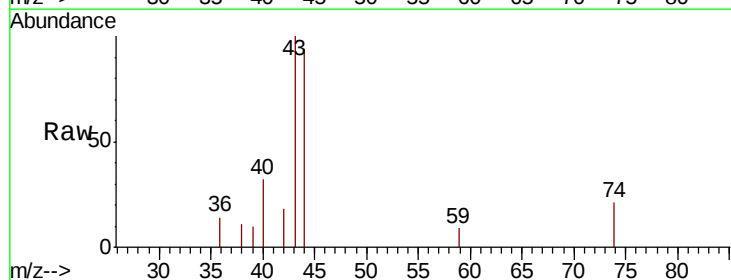
Acq: 03 Dec 2018 14:22

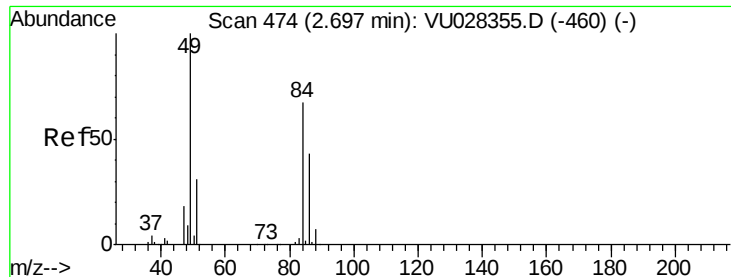
Tgt Ion: 43 Resp: 2483

Ion Ratio Lower Upper

43 100

74 14.5 15.3 22.9#

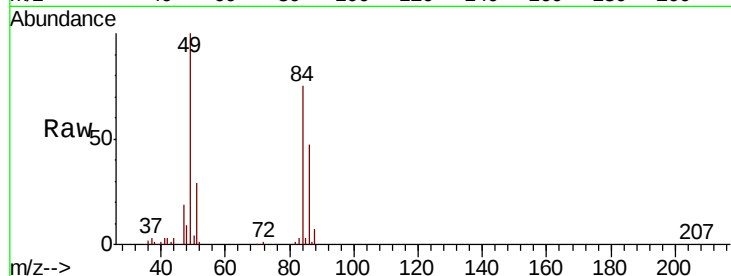




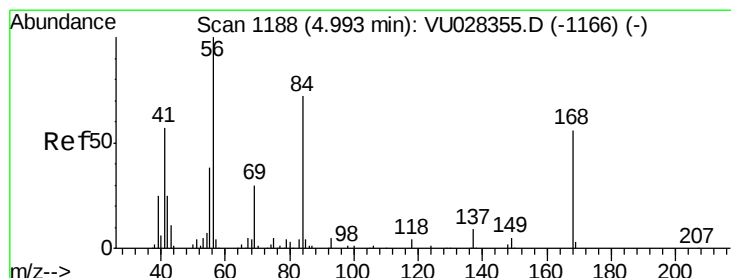
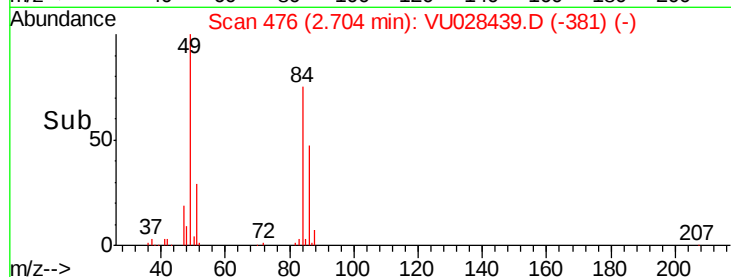
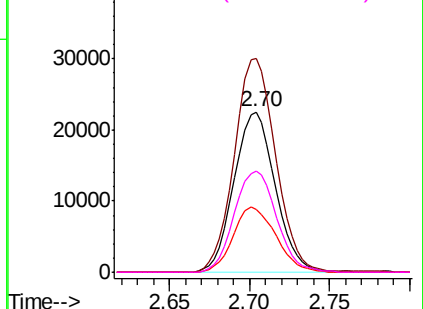
#20
Methylene Chloride
Concen: 9.141 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.01 min
Lab File: VU028439.D
Acq: 03 Dec 2018 14:22

Instrument :
MSVOA_U
ClientSampleId :
PB115231ZHE#16

Tot Ion:	84	Resp:	39632
Ion	Ratio	Lower	Upper
84	100		
49	133.3	120.0	180.0
51	39.1	36.9	55.3
86	63.1	51.1	76.7

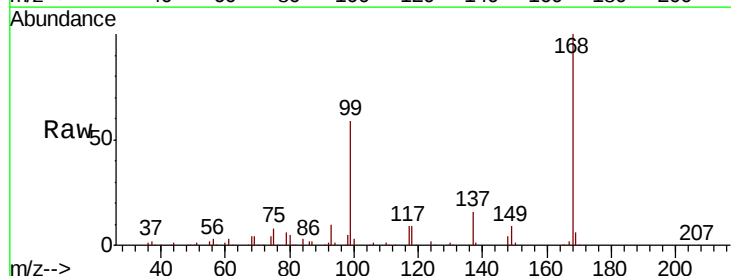


Abundance Ion 83.90 (83.60 to 84.60): VU0
Ion 48.90 (48.60 to 49.60): VU0
Ion 50.90 (50.60 to 51.60): VU0
Ion 85.90 (85.60 to 86.60): VU0

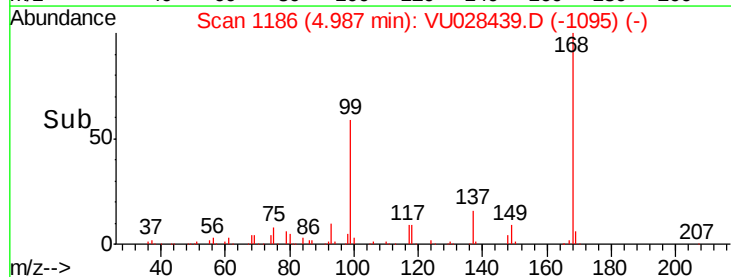
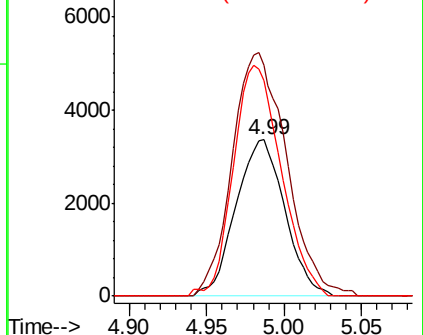


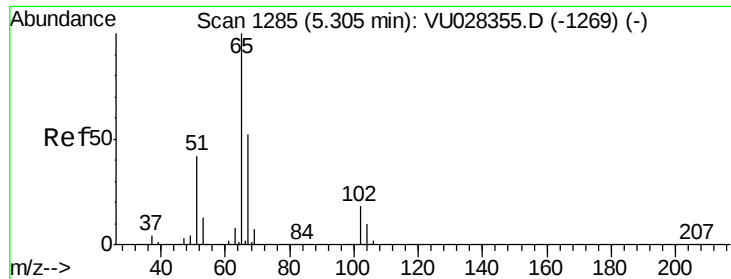
#31
Cyclohexane
Concen: 0.508 ug/l
RT: 4.99 min Scan# 1186
Delta R.T. -0.01 min
Lab File: VU028439.D
Acq: 03 Dec 2018 14:22

Tgt Ion:	56	Resp:	7393
Ion	Ratio	Lower	Upper
56	100		
69	147.8	23.7	35.5#
84	138.2	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

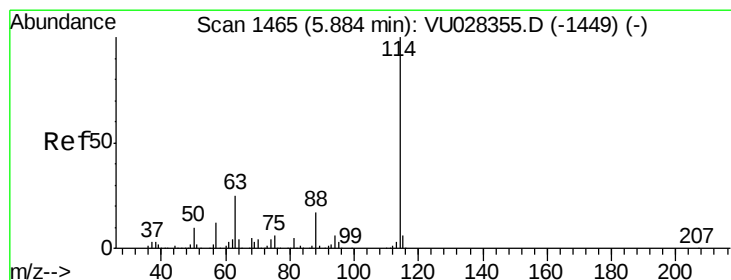
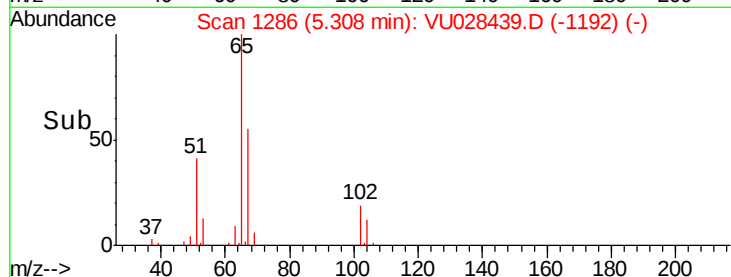
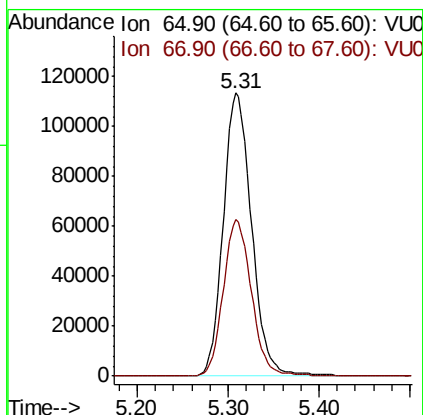
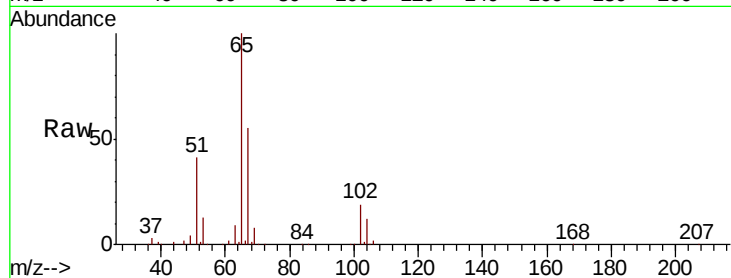




#33
 1,2-Dichloroethane-d4
 Concen: 49.107 ug/l
 RT: 5.31 min Scan# 1286
 Delta R.T. 0.00 min
 Lab File: VU028439.D
 Acq: 03 Dec 2018 14:22

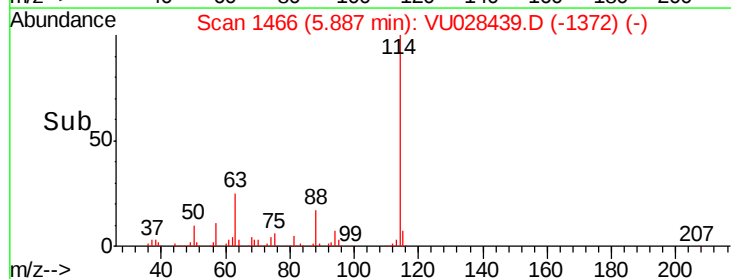
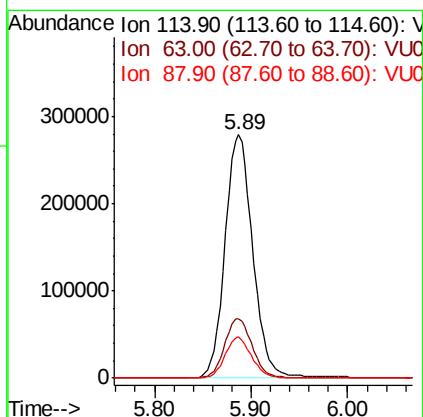
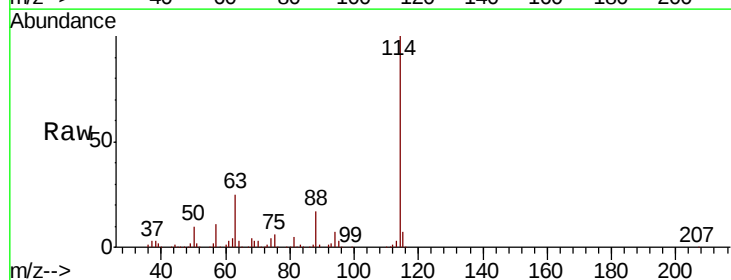
Instrument :
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 PB115231ZHE#16

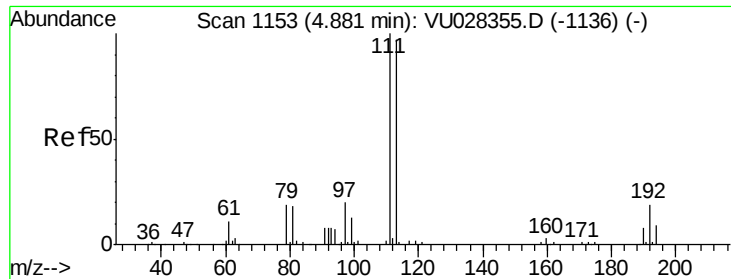
Tot Ion: 65 Resp: 245148
 Ion Ratio Lower Upper
 65 100
 67 54.9 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. 0.00 min
 Lab File: VU028439.D
 Acq: 03 Dec 2018 14:22

Tgt Ion: 114 Resp: 556828
 Ion Ratio Lower Upper
 114 100
 63 24.6 0.0 50.0
 88 16.8 0.0 34.4

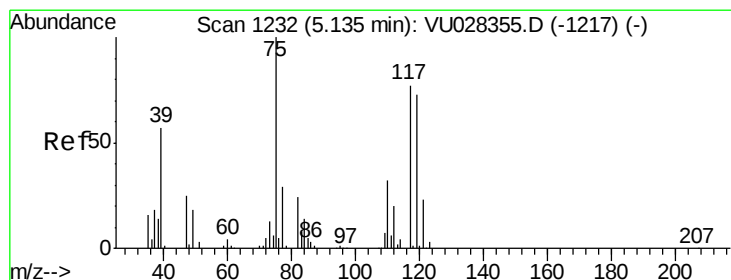
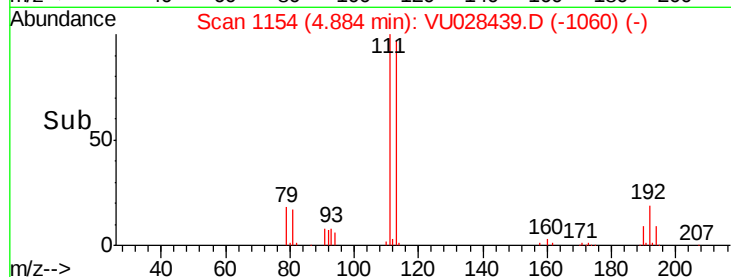
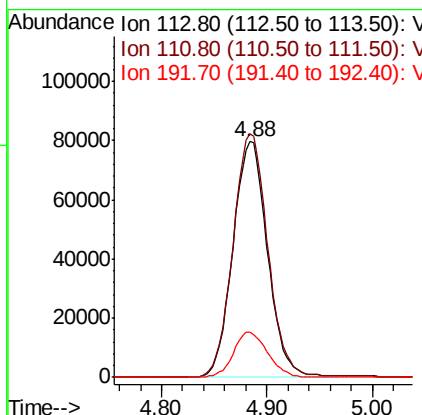
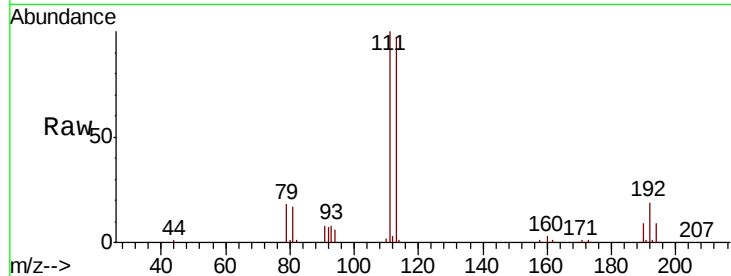




#35
 Dibromofluoromethane
 Concen: 49.058 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. 0.00 min
 Lab File: VU028439.D
 Acq: 03 Dec 2018 14:22

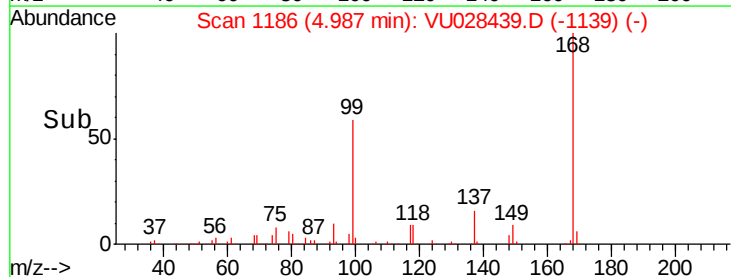
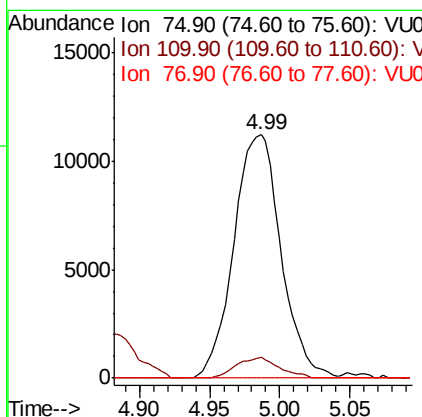
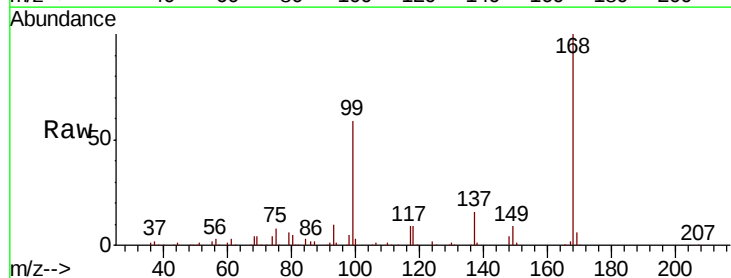
Instrument :
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 ClientSampleId :
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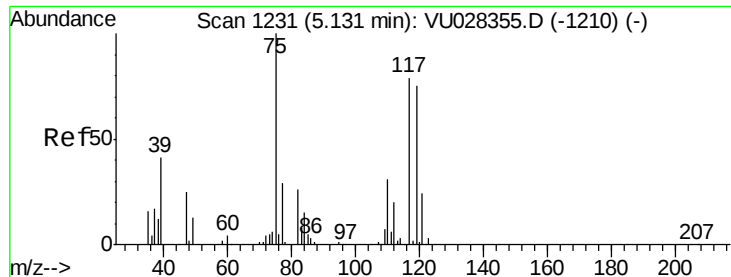
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.5	82.9	124.3
192	19.0	15.4	23.0



#36
 1,1-Dichloropropene
 Concen: 4.325 ug/l
 RT: 4.99 min Scan# 1186
 Delta R.T. -0.15 min
 Lab File: VU028439.D
 Acq: 03 Dec 2018 14:22

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.7	15.8	47.4#
77	0.0	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 5.444 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU028439.D

Acq: 03 Dec 2018 14:22

Instrument :

MSVOA_U

ClientSampleId :

PB115231ZHE#16

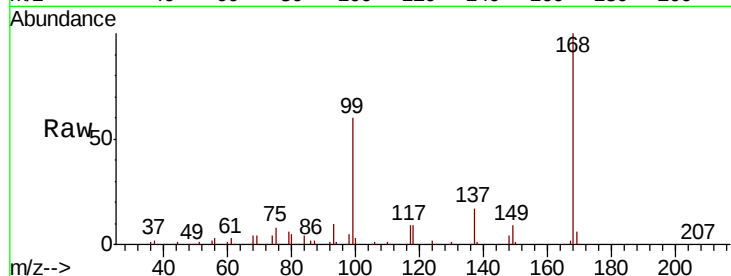
Tot Ion:117 Resp: 27238

Ion Ratio Lower Upper

117 100

119 5.6 76.3 114.5#

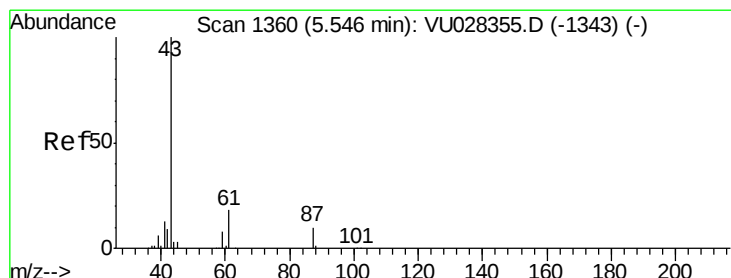
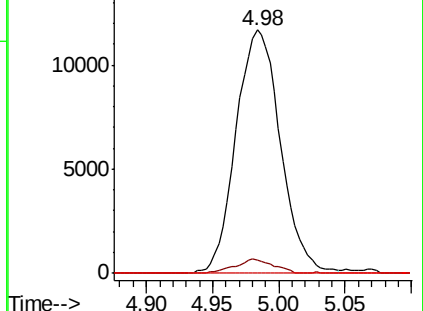
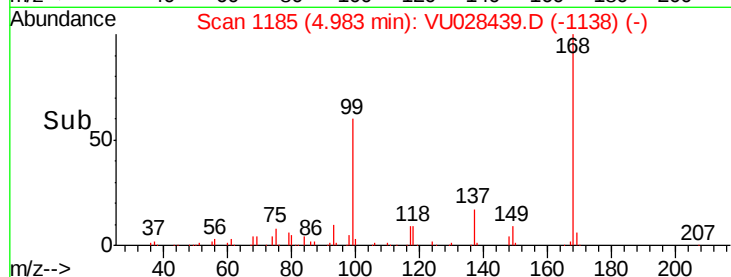
121 0.0 24.7 37.1#



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: 2.601 ug/l

RT: 5.56 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VU028439.D

Acq: 03 Dec 2018 14:22

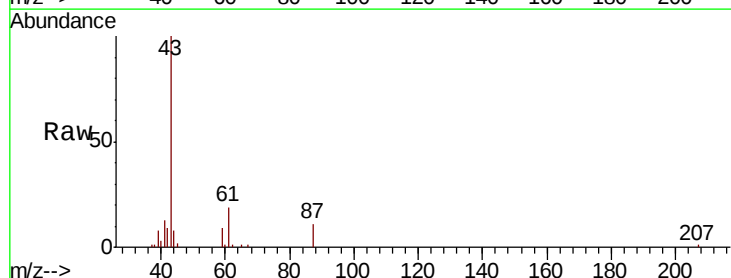
Tgt Ion: 43 Resp: 34225

Ion Ratio Lower Upper

43 100

61 16.8 14.5 21.7

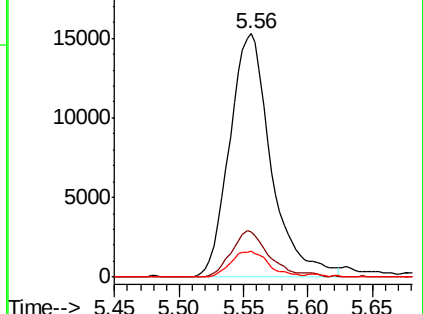
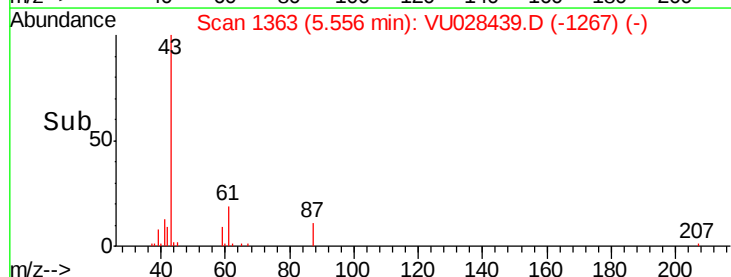
87 9.7 8.4 12.6

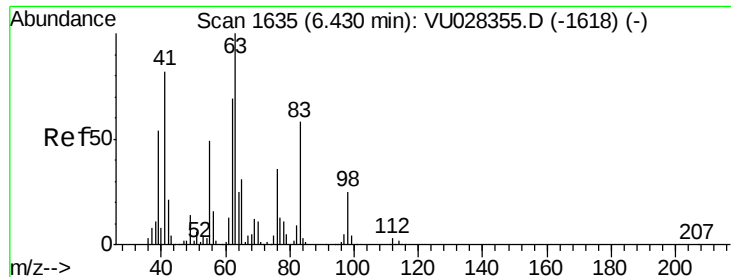


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0





#45

1,2-Dichloropropane

Concen: 0.444 ug/l

RT: 6.71 min Scan# 1721

Delta R.T. 0.28 min

Lab File: VU028439.D

Acq: 03 Dec 2018 14:22

Instrument :

MSVOA_U

ClientSampleId :

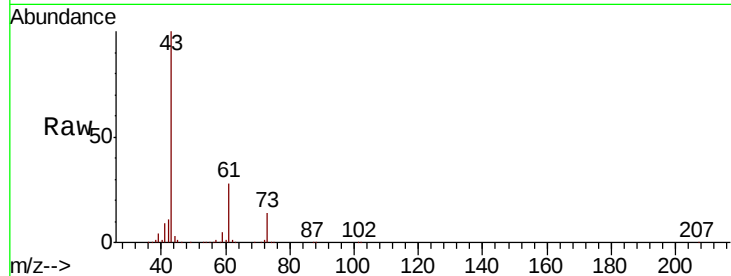
PB115231ZHE#16

Tot Ion: 63 Resp: 2349

Ion Ratio Lower Upper

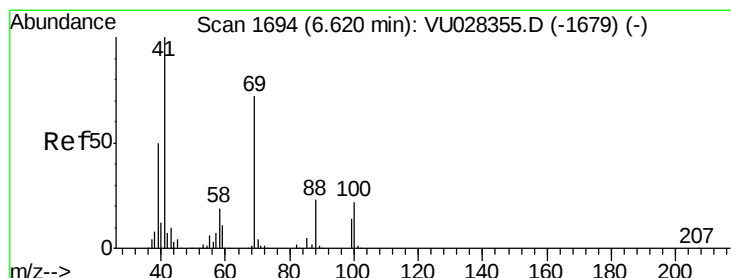
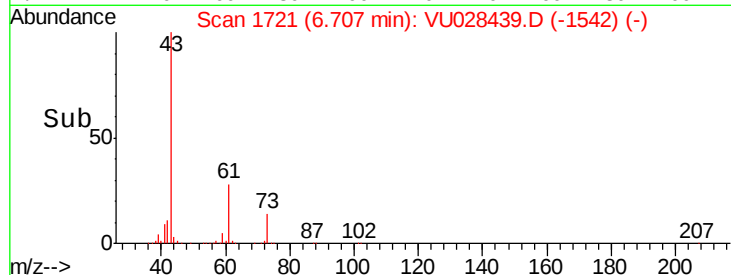
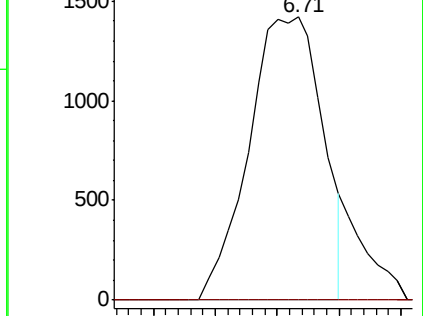
63 100

65 0.0 25.1 37.7#



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 64.90 (64.60 to 65.60): VU0



#48

Methyl methacrylate

Concen: 29.271 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.08 min

Lab File: VU028439.D

Acq: 03 Dec 2018 14:22

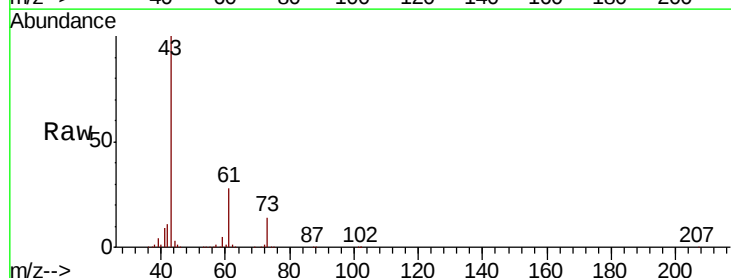
Tgt Ion: 41 Resp: 200637

Ion Ratio Lower Upper

41 100

69 0.1 59.0 88.4#

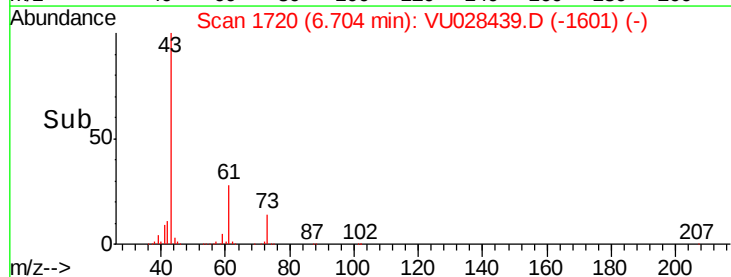
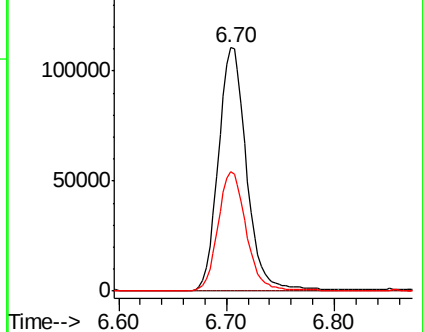
39 49.5 40.5 60.7

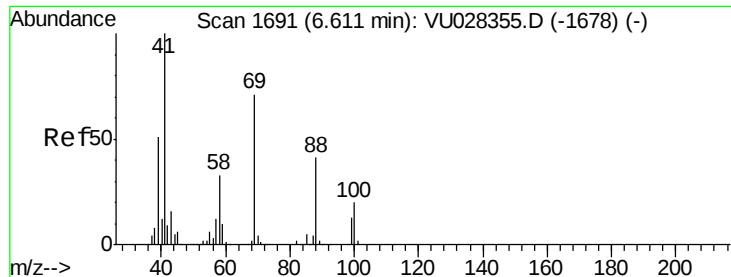


Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 39.00 (38.70 to 39.70): VU0





#49

1,4-Dioxane

Concen: 2.731 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.09 min

Lab File: VU028439.D

Acq: 03 Dec 2018 14:22

Instrument :

MSVOA_U

ClientSampleId :

PB115231ZHE#16

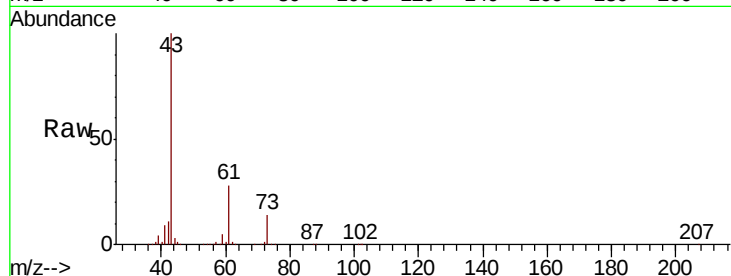
Tot Ion: 88 Resp: 299

Ion Ratio Lower Upper

88 100

43 770776.9 32.6 48.8#

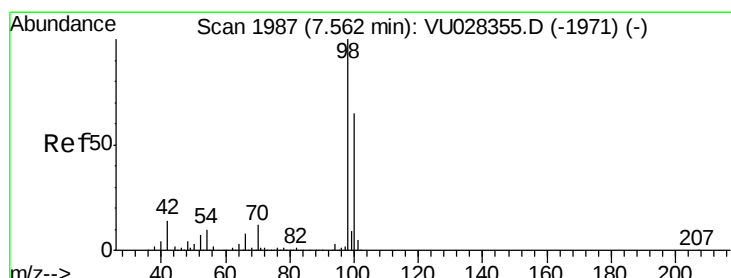
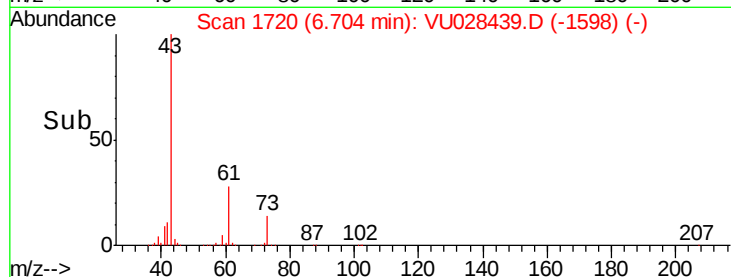
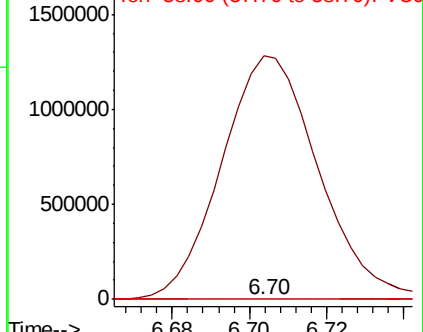
58 2770.6 68.7 103.1#



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: 48.654 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VU028439.D

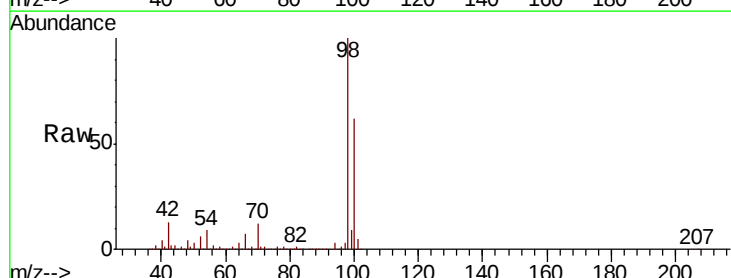
Acq: 03 Dec 2018 14:22

Tgt Ion: 98 Resp: 720481

Ion Ratio Lower Upper

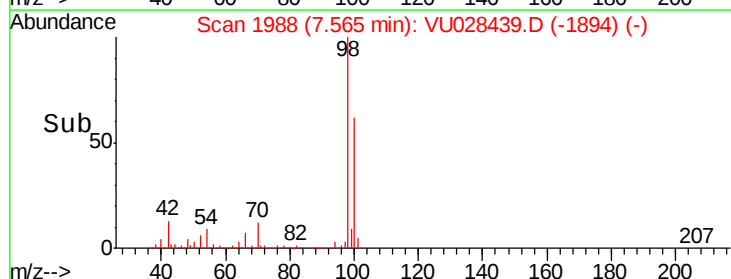
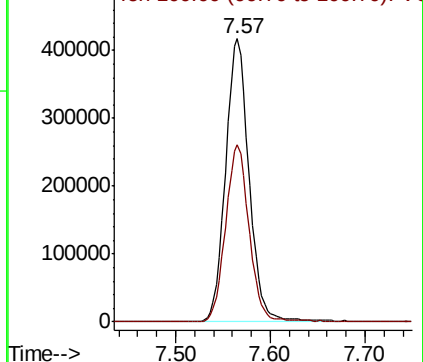
98 100

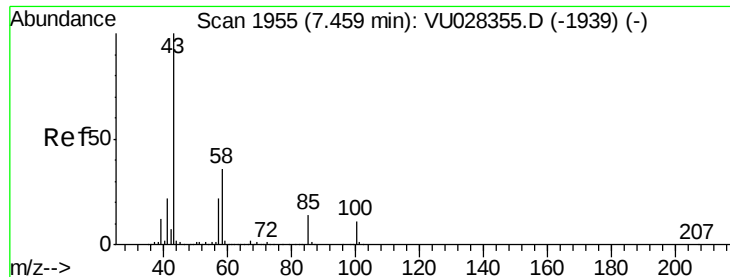
100 62.8 50.8 76.2



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: 1.989 ug/l

RT: 7.56 min Scan# 1986

Delta R.T. 0.10 min

Lab File: VU028439.D

Acq: 03 Dec 2018 14:22

Instrument :

MSVOA_U

ClientSampleId :

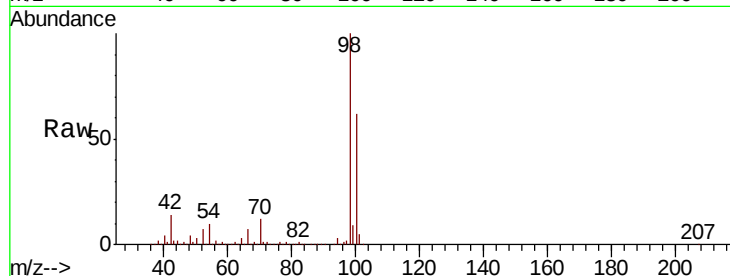
PB115231ZHE#16

Tot Ion: 43 Resp: 16714

Ion Ratio Lower Upper

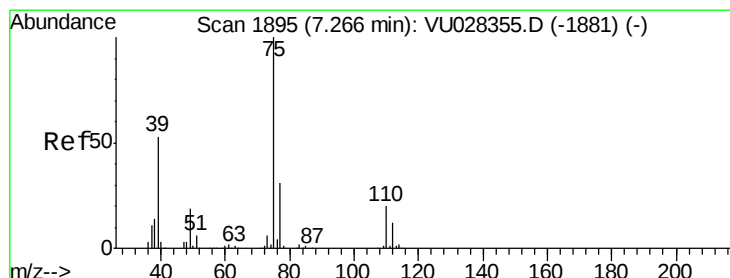
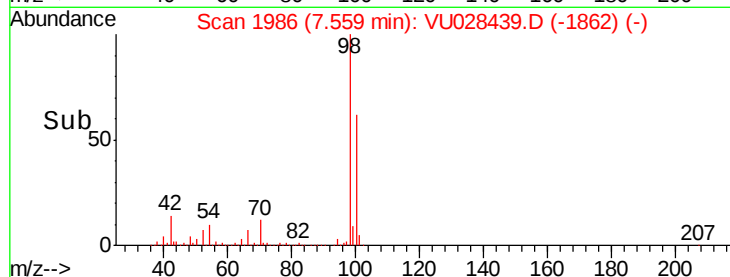
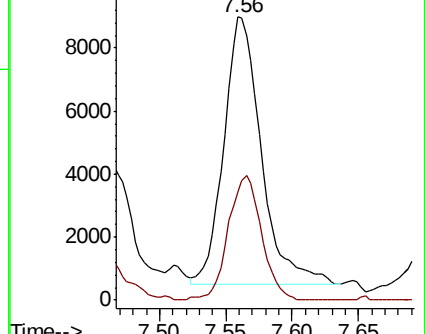
43 100

58 41.2 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: 8.688 ug/l

RT: 7.42 min Scan# 1943

Delta R.T. 0.15 min

Lab File: VU028439.D

Acq: 03 Dec 2018 14:22

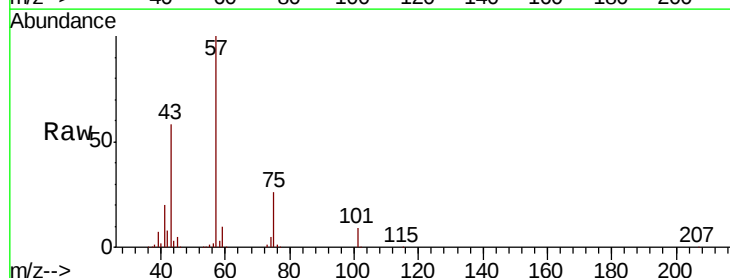
Tgt Ion: 75 Resp: 67200

Ion Ratio Lower Upper

75 100

77 0.3 24.9 37.3#

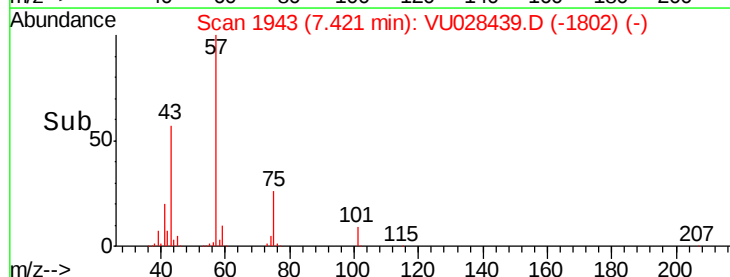
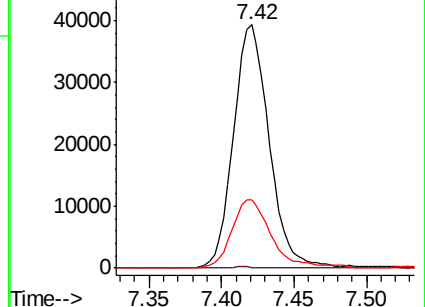
39 28.0 42.6 64.0#

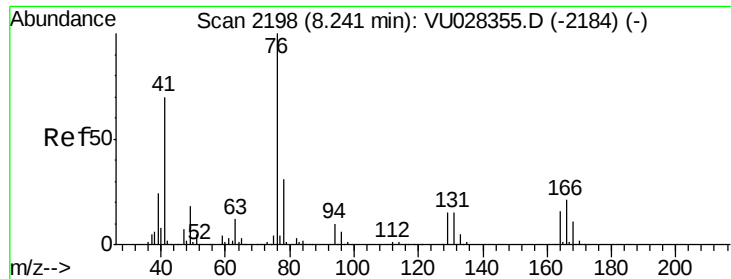


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0





#57

1,3-Dichloropropane

Concen: 2.051 ug/l

RT: 8.41 min Scan# 2252

Delta R.T. 0.17 min

Lab File: VU028439.D

Acq: 03 Dec 2018 14:22

Instrument :

MSVOA_U

ClientSampleId :

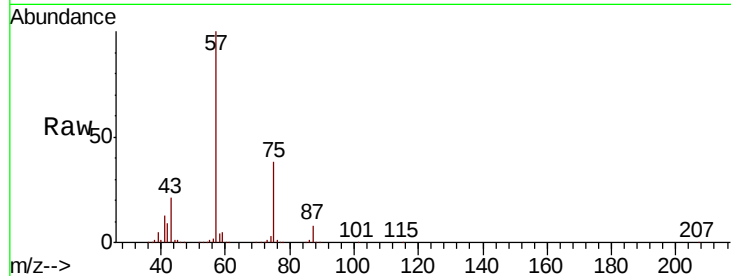
PB115231ZHE#16

Tot Ion: 76 Resp: 16265

Ion Ratio Lower Upper

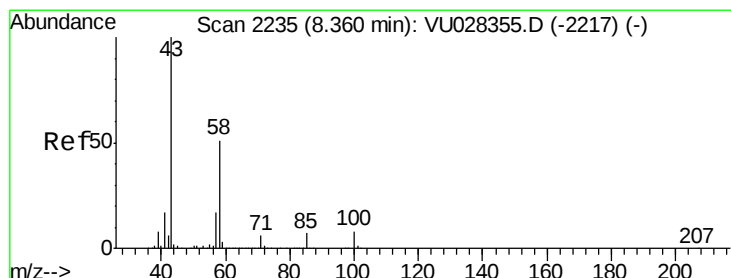
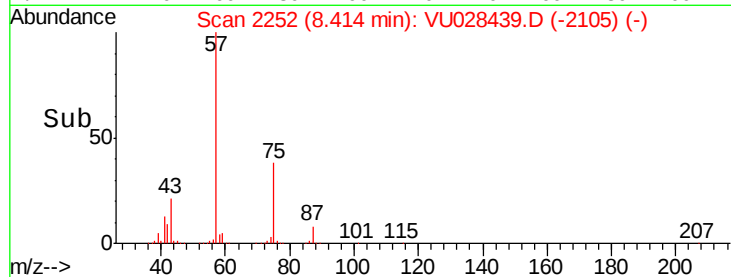
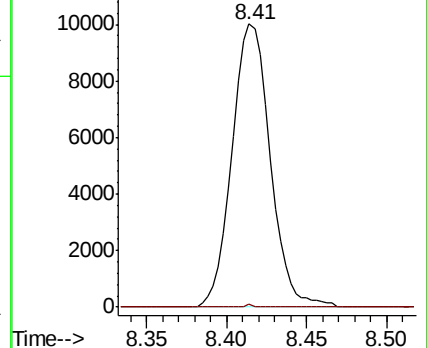
76 100

78 0.1 25.4 38.0#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



#59

2-Hexanone

Concen: 38.678 ug/l

RT: 8.41 min Scan# 2252

Delta R.T. 0.05 min

Lab File: VU028439.D

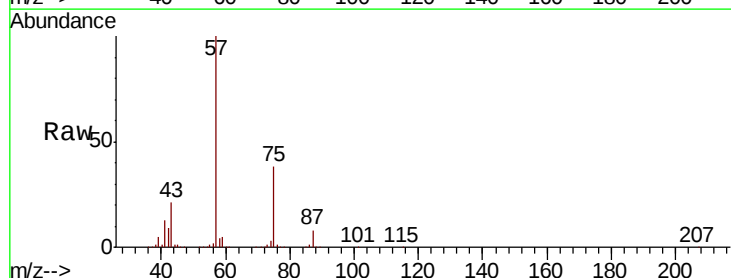
Acq: 03 Dec 2018 14:22

Tgt Ion: 43 Resp: 251790

Ion Ratio Lower Upper

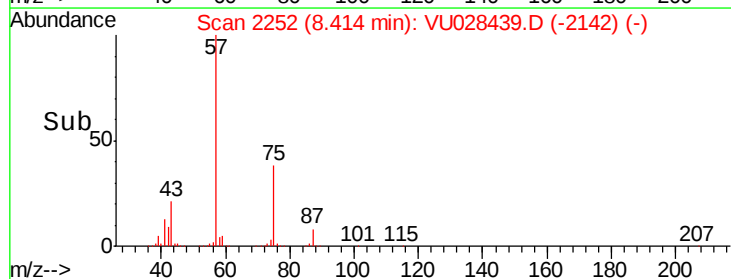
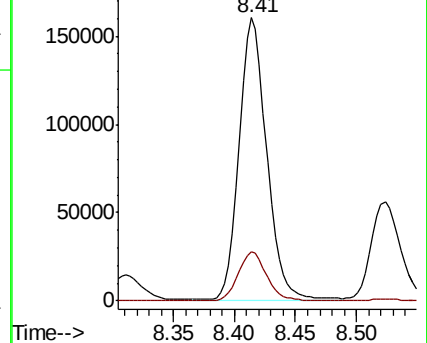
43 100

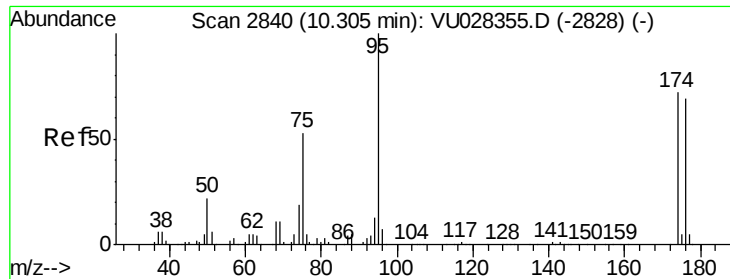
58 17.7 25.5 76.5#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0





#62

4-Bromofluorobenzene

Concen: 49.040 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.00 min

Lab File: VU028439.D

Acq: 03 Dec 2018 14:22

Instrument :

MSVOA_U

ClientSampleId :

PB115231ZHE#16

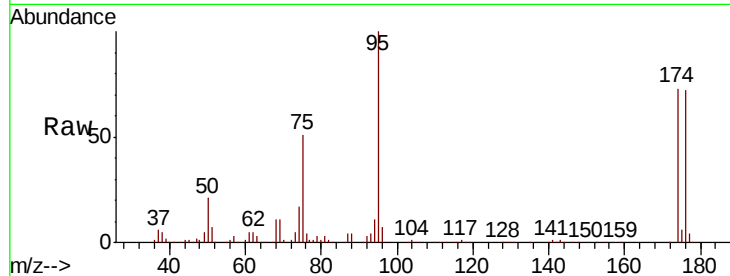
Tot Ion: 95 Resp: 261739

Ion Ratio Lower Upper

95 100

174 74.3 0.0 145.4

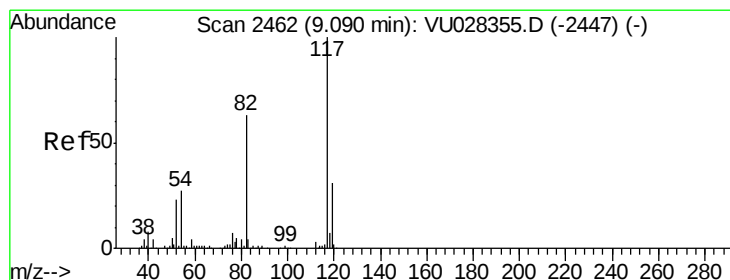
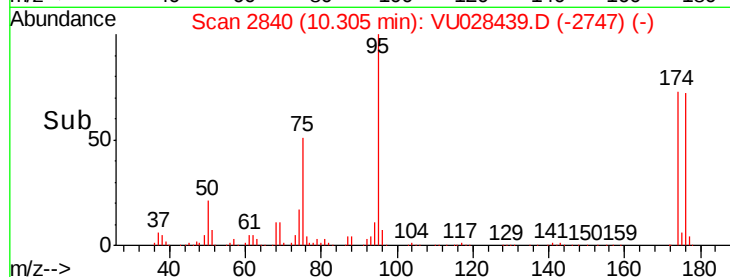
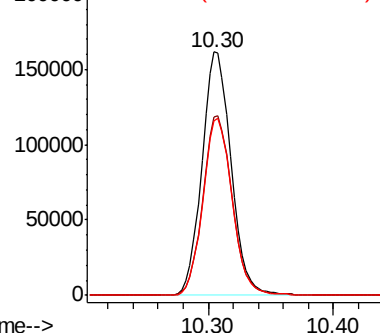
176 73.0 0.0 140.8



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: VU028439.D

Acq: 03 Dec 2018 14:22

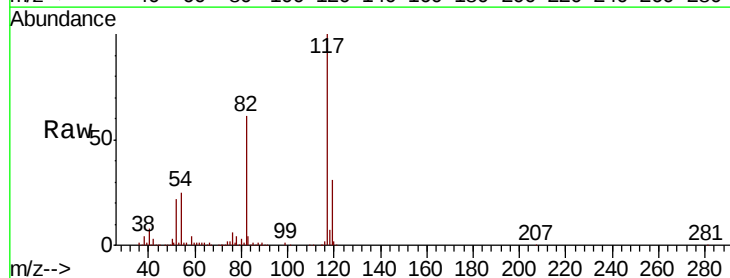
Tgt Ion: 117 Resp: 519825

Ion Ratio Lower Upper

117 100

82 61.0 50.3 75.5

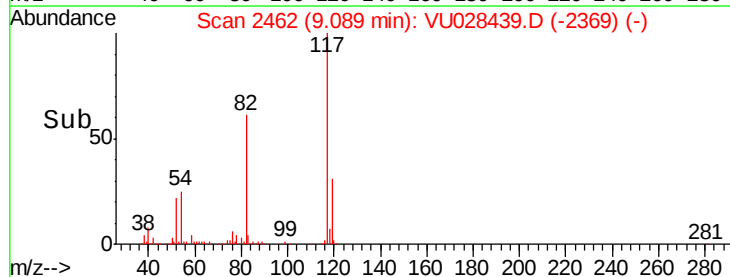
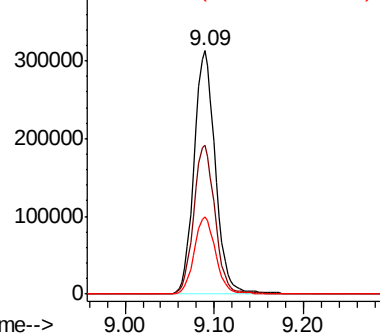
119 31.5 24.8 37.2

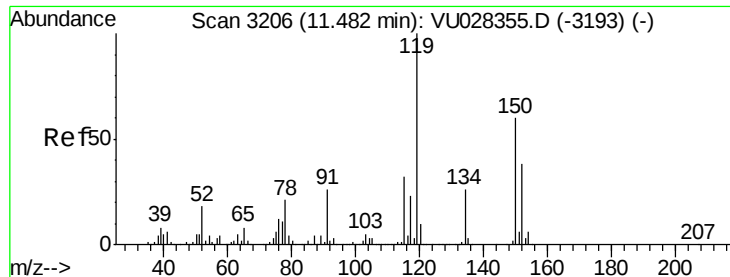


Abundance Ion 116.90 (116.60 to 117.60): V

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: VU028439.D

Acq: 03 Dec 2018 14:22

Instrument :

MSVOA_U

ClientSampleId :

PB115231ZHE#16

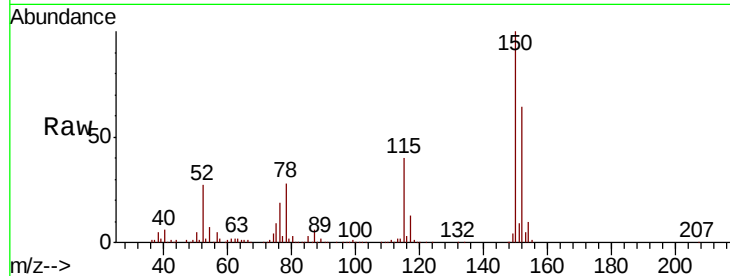
Tot Ion:152 Resp: 240668

Ion Ratio Lower Upper

152 100

115 61.5 45.0 134.8

150 154.7 0.0 349.2

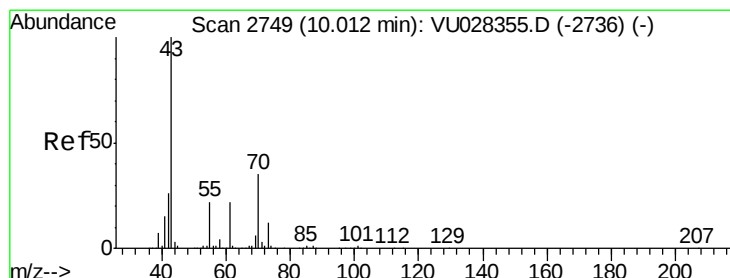
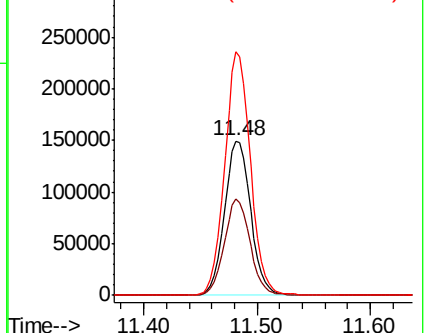
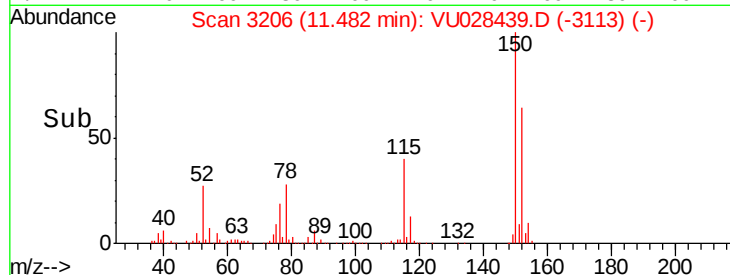


Abundance

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: 2.207 ug/l

RT: 9.76 min Scan# 2672

Delta R.T. -0.25 min

Lab File: VU028439.D

Acq: 03 Dec 2018 14:22

Tgt Ion: 43 Resp: 25888

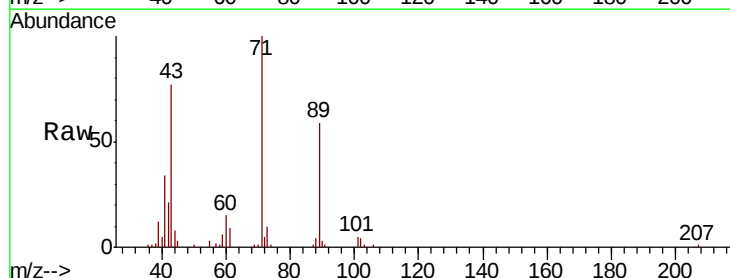
Ion Ratio Lower Upper

43 100

70 0.9 28.4 42.6#

55 3.2 18.0 27.0#

61 10.5 17.6 26.4#



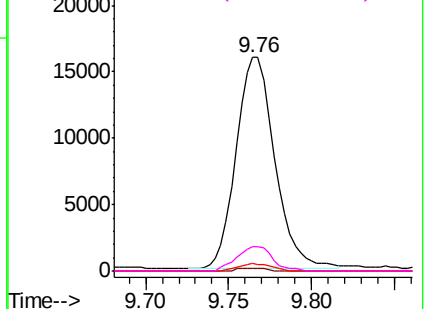
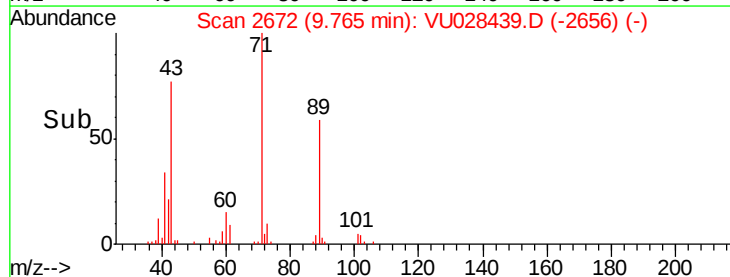
Abundance

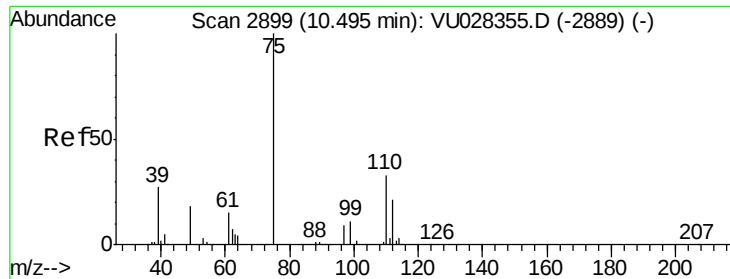
Ion 43.00 (42.70 to 43.70): VU0

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

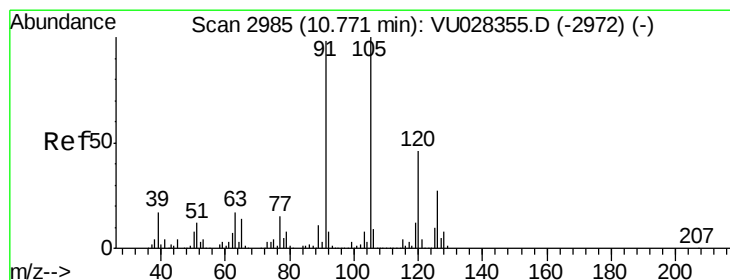
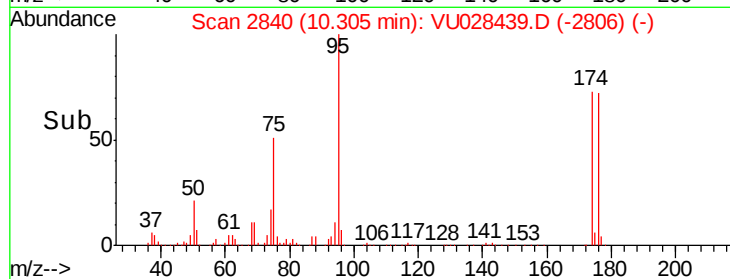
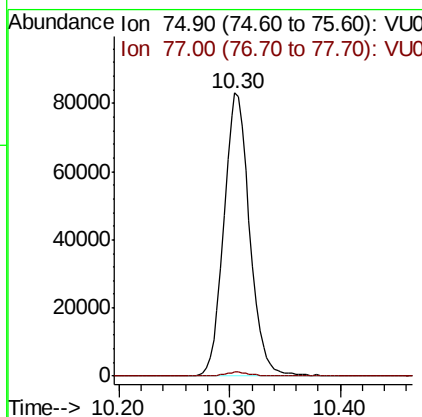
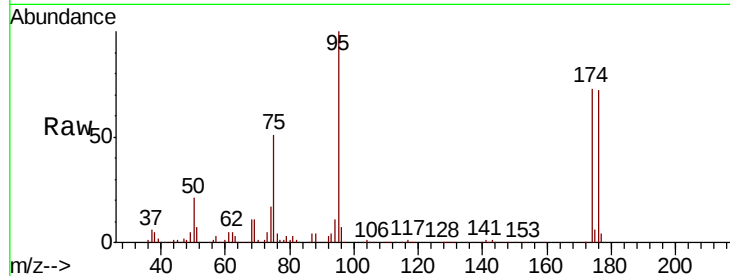




#76
 1,2,3-Trichloropropane
 Concen: 20.159 ug/l
 RT: 10.30 min Scan# 2840
 Delta R.T. -0.19 min
 Lab File: VU028439.D
 Acq: 03 Dec 2018 14:22

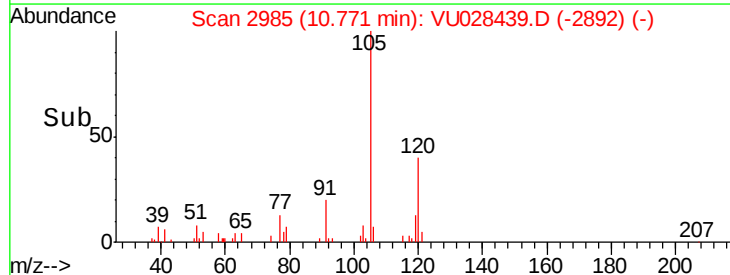
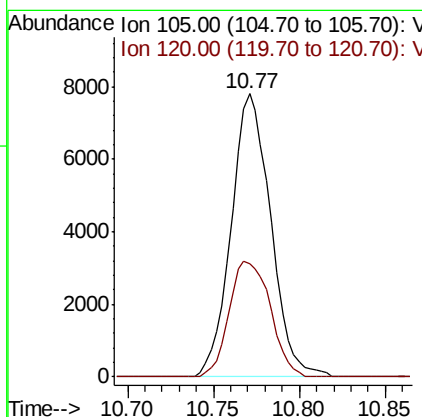
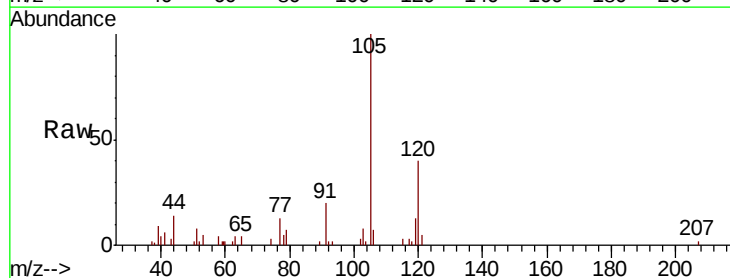
Instrument :
 MSVOA_U
 ClientSampleId :
 PB115231ZHE#16

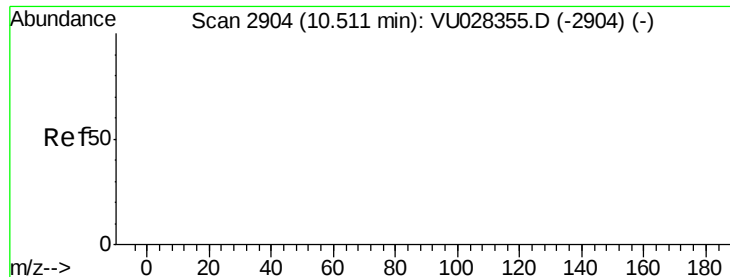
Tot Ion: 75 Resp: 134542
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.4 67.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.789 ug/l
 RT: 10.77 min Scan# 2985
 Delta R.T. -0.00 min
 Lab File: VU028439.D
 Acq: 03 Dec 2018 14:22

Tgt Ion: 105 Resp: 12447
 Ion Ratio Lower Upper
 105 100
 120 42.5 23.4 70.0





#81

trans-1,4-Dichloro-2-butene

Concen: 53.513 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.20 min

Lab File: VU028439.D

Acq: 03 Dec 2018 14:22

Instrument :

MSVOA_U

ClientSampleId :

PB115231ZHE#16

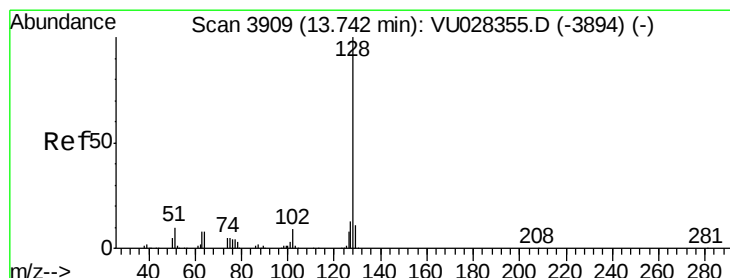
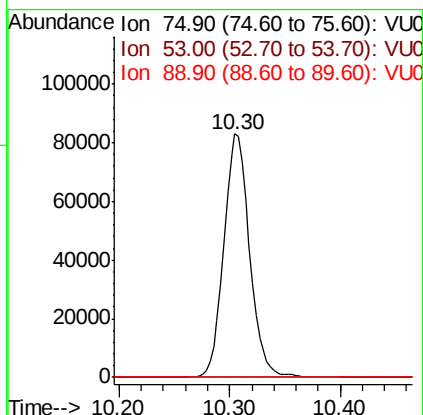
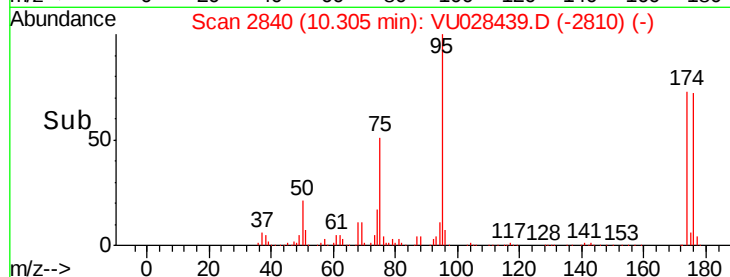
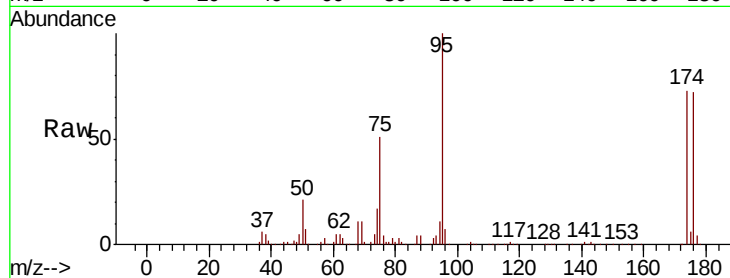
Tot Ion: 75 Resp: 134542

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0



#95

Naphthalene

Concen: 2.848 ug/l

RT: 13.75 min Scan# 3911

Delta R.T. 0.01 min

Lab File: VU028439.D

Acq: 03 Dec 2018 14:22

Tgt Ion: 128 Resp: 283

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

129 0.0 8.6 12.8#

