

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU120318\
 Data File : VU028429.D
 Acq On : 03 Dec 2018 10:22
 Operator : MD/SY
 Sample : VU1203WBL01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1203WBL01

Quant Time: Dec 04 06:52:04 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	308444	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	569434	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	506565	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	205108	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	249167	48.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.68%	
35) Dibromofluoromethane	4.88	113	187285	49.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.92%	
50) Toluene-d8	7.56	98	727907	48.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.14%	
62) 4-Bromofluorobenzene	10.31	95	240373	44.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.08%	

Target Compounds

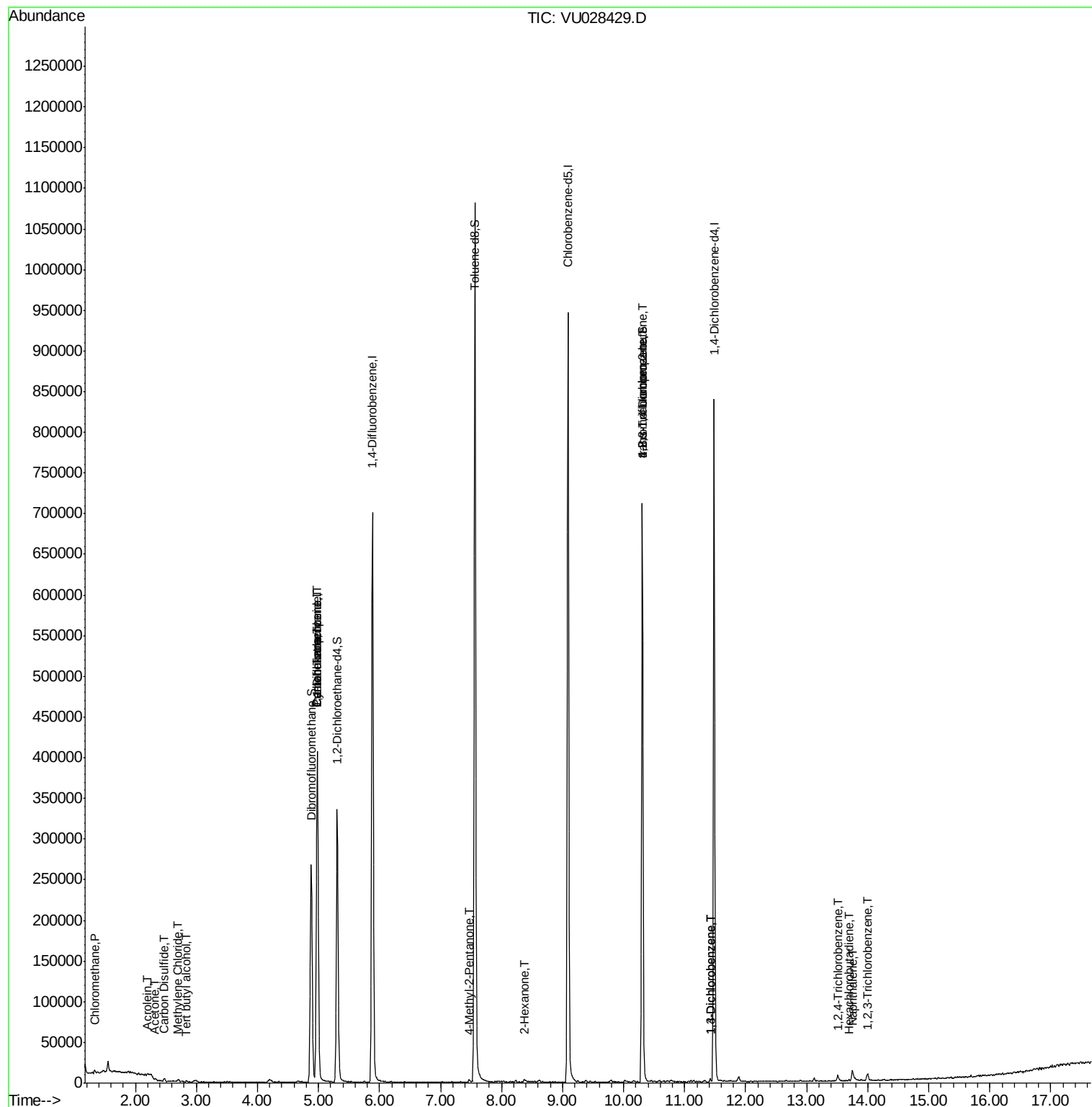
						Qvalue
3) Chloromethane	1.33	50	5629	0.702	ug/l	90
11) Tert butyl alcohol	2.83	59	477	0.407	ug/l #	72
13) Acrolein	2.20	56	437	0.420	ug/l #	50
16) Acetone	2.32	43	1053	0.334	ug/l	91
17) Carbon Disulfide	2.48	76	4502	0.356	ug/l	98
20) Methylene Chloride	2.70	84	1407	0.242	ug/l #	93
31) Cyclohexane	4.98	56	7428	0.484	ug/l #	1
36) 1,1-Dichloropropene	4.98	75	26697	4.284	ug/l #	50
38) Carbon Tetrachloride	4.98	117	30404	5.942	ug/l #	16
51) 4-Methyl-2-Pentanone	7.47	43	2276	0.265	ug/l	96
59) 2-Hexanone	8.37	43	2409	0.362	ug/l	99
76) 1,2,3-Trichloropropane	10.31	75	125513	22.067	ug/l #	33
81) trans-1,4-Dichloro-2-buten	10.31	75	125513	58.577	ug/l #	100
87) 1,3-Dichlorobenzene	11.42	146	1767	0.258	ug/l	93
88) 1,4-Dichlorobenzene	11.42	146	1767	0.256	ug/l	92
93) 1,2,4-Trichlorobenzene	13.51	180	2833	0.633	ug/l	93
94) Hexachlorobutadiene	13.69	225	492	0.233	ug/l	89
95) Naphthalene	13.75	128	13005	3.546	ug/l	99
96) 1,2,3-Trichlorobenzene	14.00	180	3776	0.834	ug/l	93

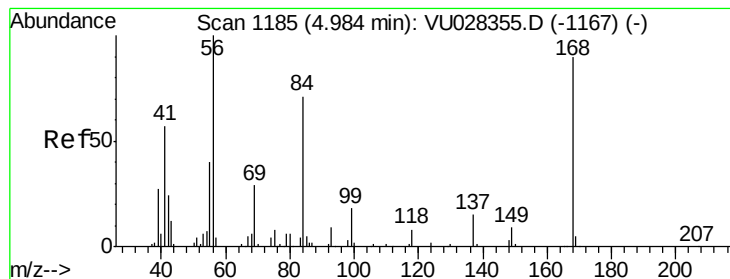
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 4.98 min Scan# 1184

Delta R.T. -0.00 min

Lab File: VU028429.D

Acq: 03 Dec 2018 10:22

Instrument :

MSVOA_U

ClientSampleId :

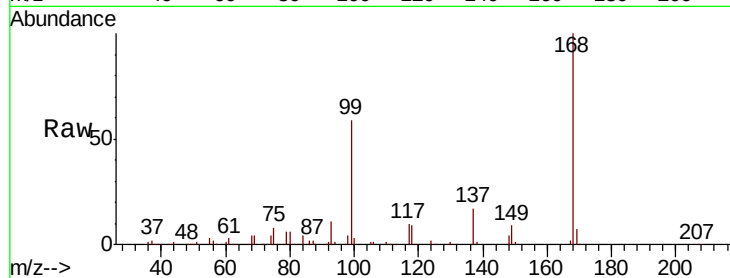
VU1203WBL01

Tot Ion:168 Resp: 308444

Ion Ratio Lower Upper

168 100

99 58.5 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) (-)

4.98

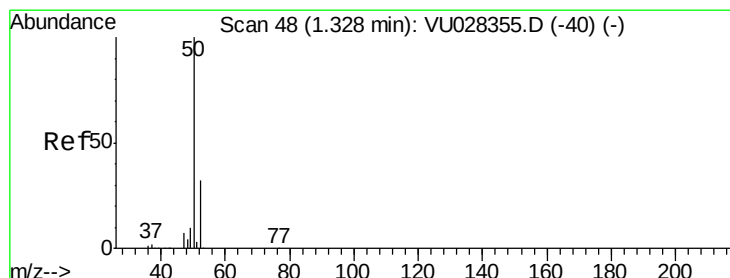
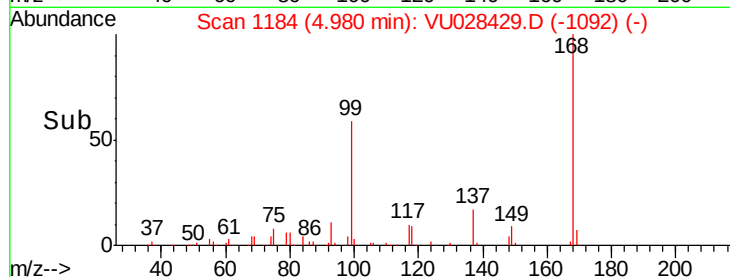
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.702 ug/l

RT: 1.33 min Scan# 49

Delta R.T. 0.00 min

Lab File: VU028429.D

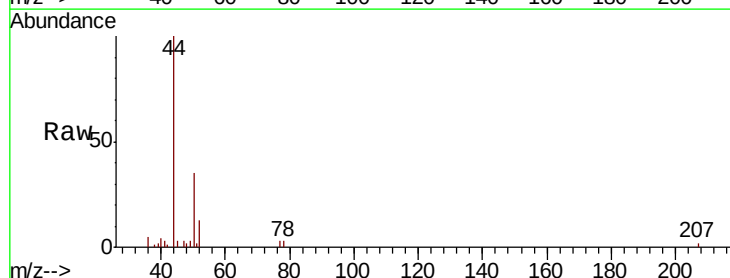
Acq: 03 Dec 2018 10:22

Tgt Ion: 50 Resp: 5629

Ion Ratio Lower Upper

50 100

52 37.4 25.4 38.2



Abundance Ion 49.90 (49.60 to 50.60): VU028355.D (-40) (-)

Ion 51.90 (51.60 to 52.60): VU028355.D (-40) (-)

1.33

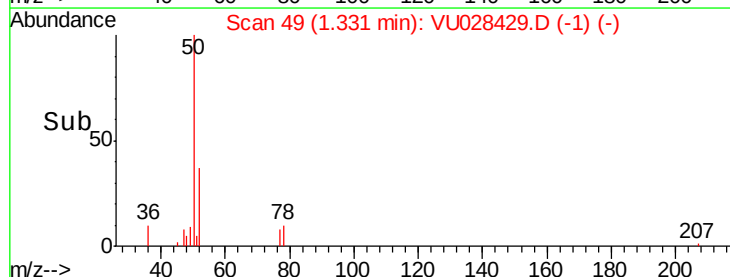
3000

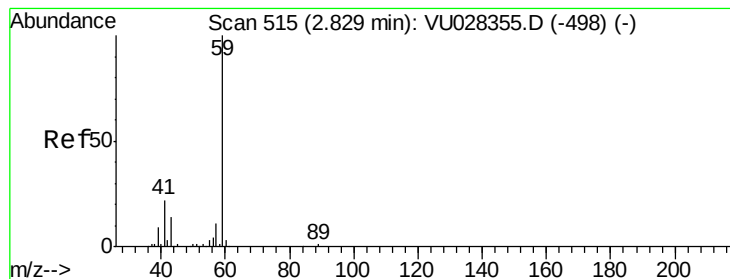
2000

1000

0

Time-->





#11

Tert butyl alcohol

Concen: 0.407 ug/l

RT: 2.83 min Scan# 515

Delta R.T. -0.00 min

Lab File: VU028429.D

Acq: 03 Dec 2018 10:22

Instrument :

MSVOA_U

ClientSampleId :

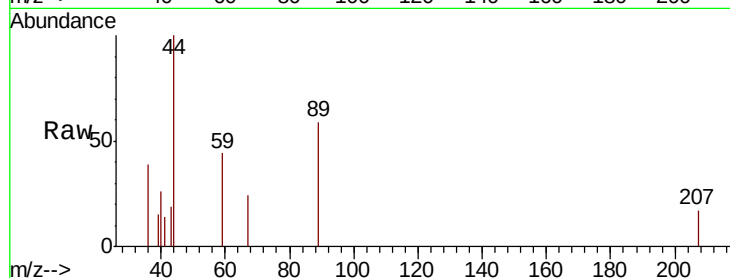
VU1203WBL01

Tot Ion: 59 Resp: 477

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

2.83

300

200

100

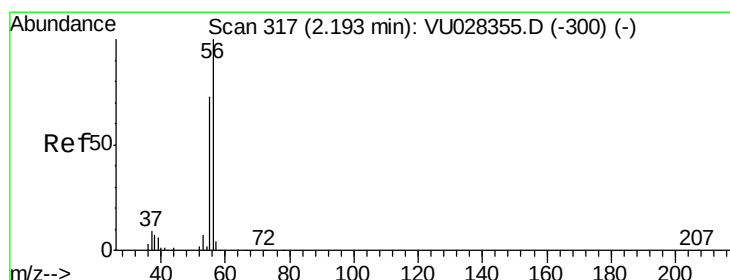
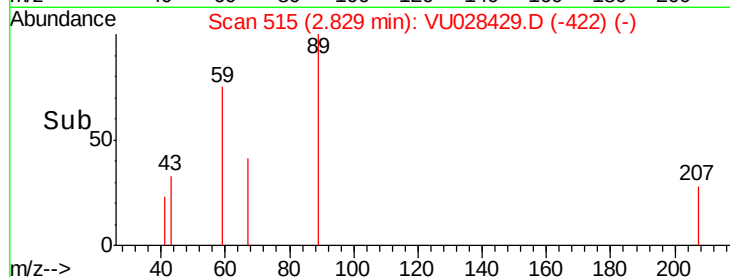
0

Time-->

2.80

2.82

2.84



#13

Acrolein

Concen: 0.420 ug/l

RT: 2.20 min Scan# 318

Delta R.T. 0.00 min

Lab File: VU028429.D

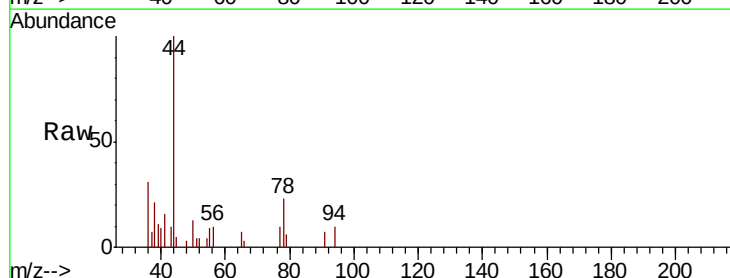
Acq: 03 Dec 2018 10:22

Tgt Ion: 56 Resp: 437

Ion Ratio Lower Upper

56 100

55 29.5 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

2.20

300

200

100

0

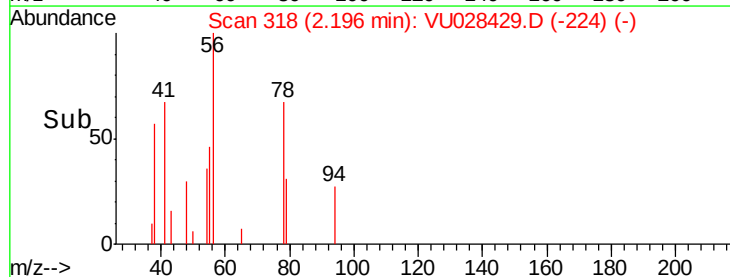
Time-->

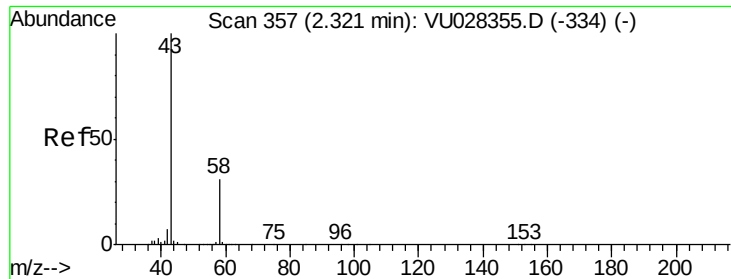
2.16

2.18

2.20

2.22





#16

Acetone

Concen: 0.334 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU028429.D

Acq: 03 Dec 2018 10:22

Instrument :

MSVOA_U

ClientSampleId :

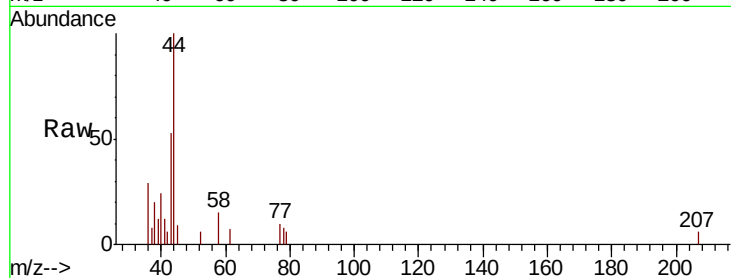
VU1203WBL01

Tot Ion: 43 Resp: 1053

Ion Ratio Lower Upper

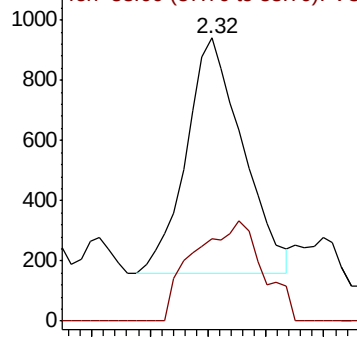
43 100

58 35.3 24.4 36.6

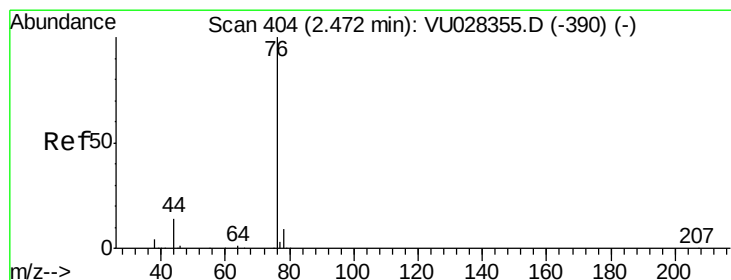
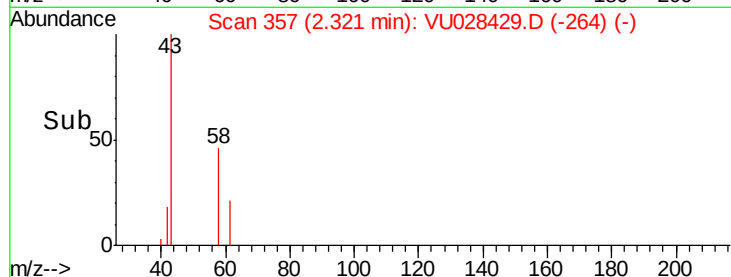


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



Time-->



#17

Carbon Disulfide

Concen: 0.356 ug/l

RT: 2.48 min Scan# 405

Delta R.T. 0.00 min

Lab File: VU028429.D

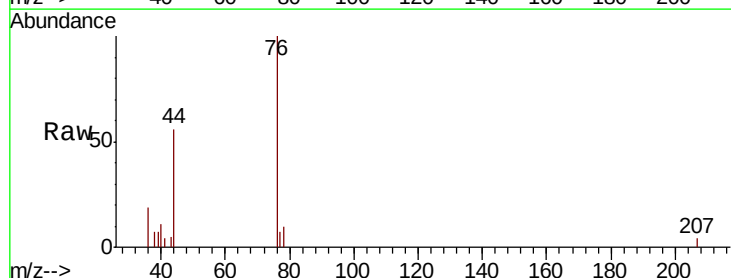
Acq: 03 Dec 2018 10:22

Tgt Ion: 76 Resp: 4502

Ion Ratio Lower Upper

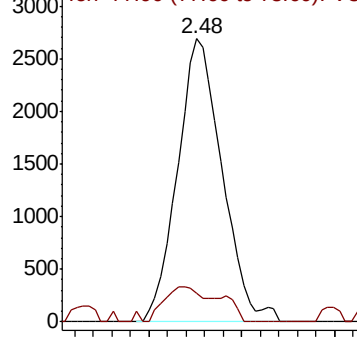
76 100

78 9.9 7.4 11.2

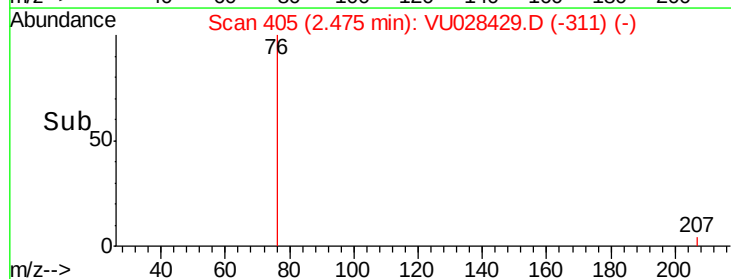


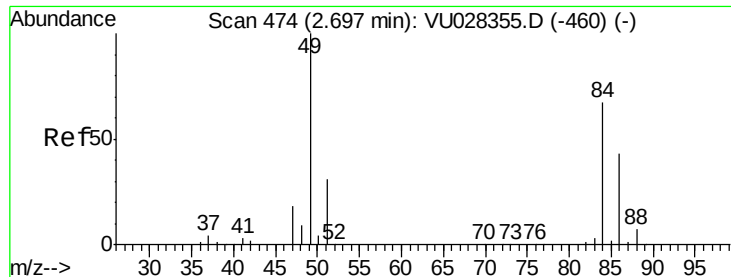
Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



Time-->

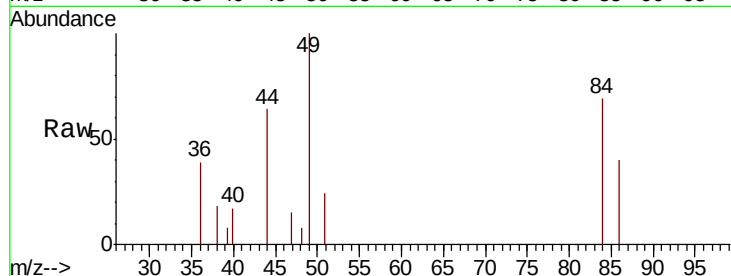




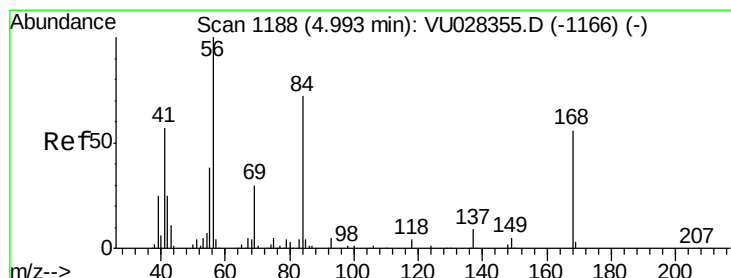
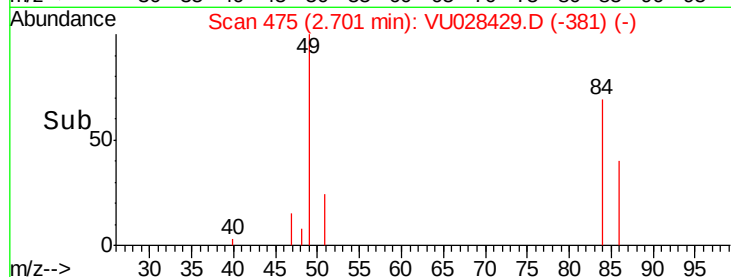
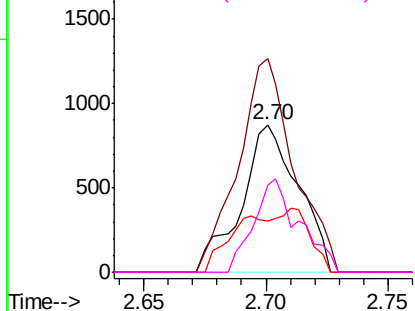
#20
Methylene Chloride
Concen: 0.242 ug/l
RT: 2.70 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU028429.D
Acq: 03 Dec 2018 10:22

Instrument :
MSVOA_U
ClientSampleId :
VU1203WBL01

Tot Ion: 84 Resp: 1407
Ion Ratio Lower Upper
84 100
49 144.6 120.0 180.0
51 34.7 36.9 55.3#
86 58.6 51.1 76.7

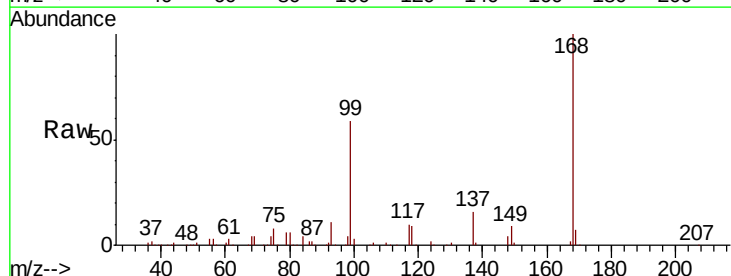


Abundance Ion 83.90 (83.60 to 84.60): VU0
Ion 48.90 (48.60 to 49.60): VU0
Ion 50.90 (50.60 to 51.60): VU0
Ion 85.90 (85.60 to 86.60): VU0

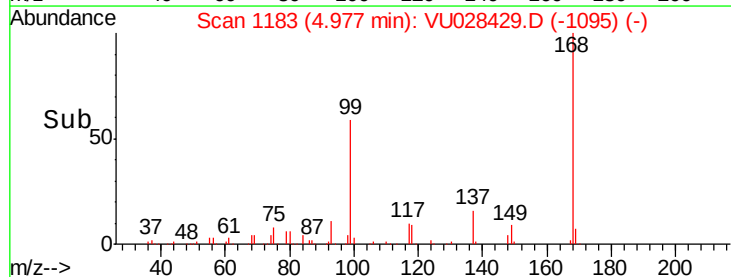
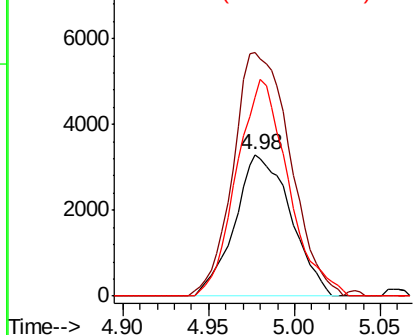


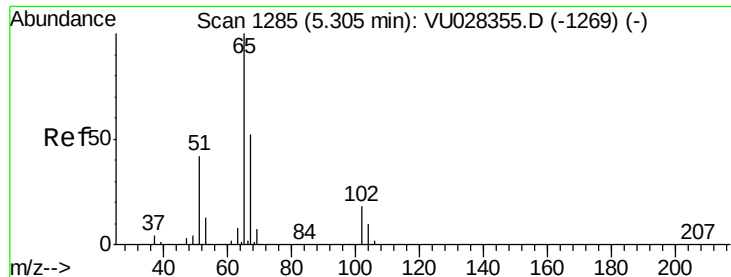
#31
Cyclohexane
Concen: 0.484 ug/l
RT: 4.98 min Scan# 1183
Delta R.T. -0.02 min
Lab File: VU028429.D
Acq: 03 Dec 2018 10:22

Tgt Ion: 56 Resp: 7428
Ion Ratio Lower Upper
56 100
69 171.7 23.7 35.5#
84 139.9 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

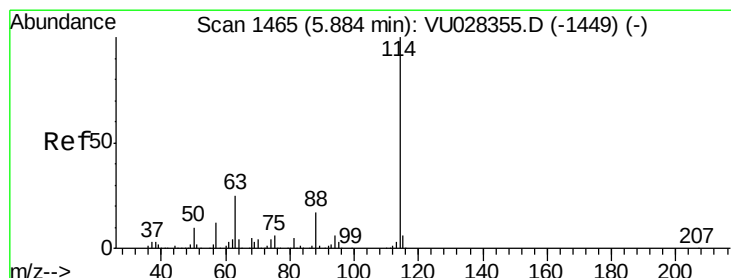
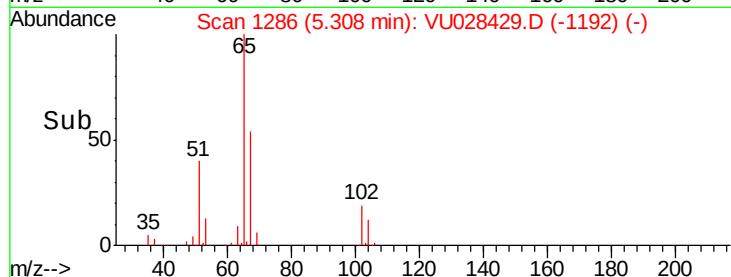
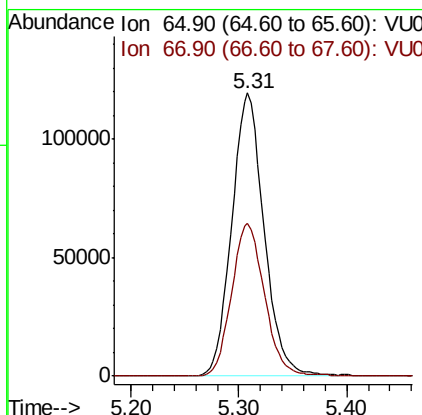
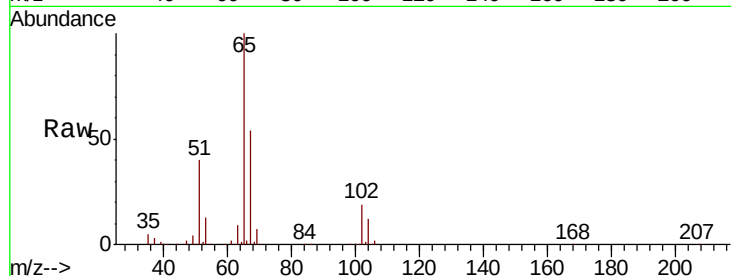




#33
 1,2-Dichloroethane-d4
 Concen: 48.336 ug/l
 RT: 5.31 min Scan# 1286
 Delta R.T. 0.00 min
 Lab File: VU028429.D
 Acq: 03 Dec 2018 10:22

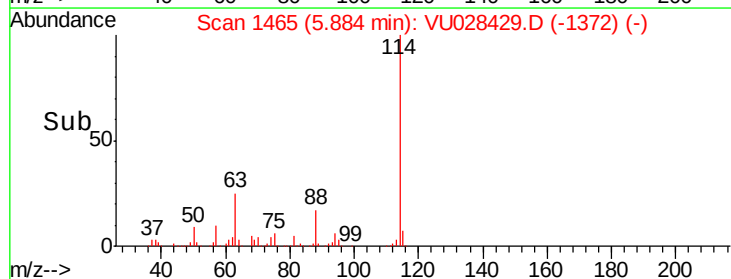
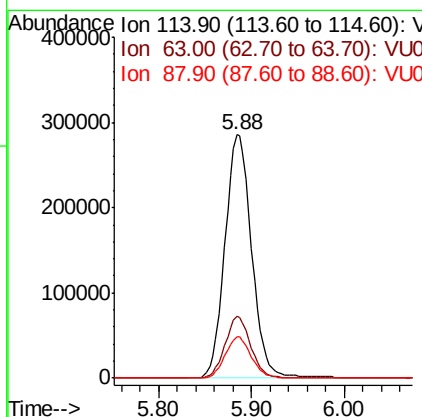
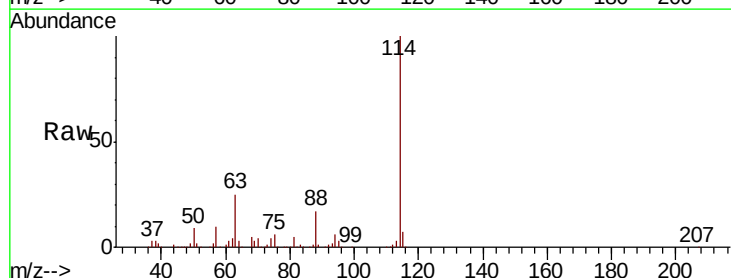
Instrument :
 MSVOA_U
 ClientSampleId :
 VU1203WBL01

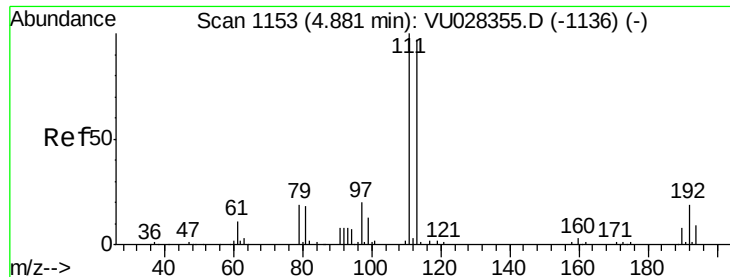
Tot Ion: 65 Resp: 249167
 Ion Ratio Lower Upper
 65 100
 67 54.8 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. -0.00 min
 Lab File: VU028429.D
 Acq: 03 Dec 2018 10:22

Tgt Ion: 114 Resp: 569434
 Ion Ratio Lower Upper
 114 100
 63 25.2 0.0 50.0
 88 17.0 0.0 34.4

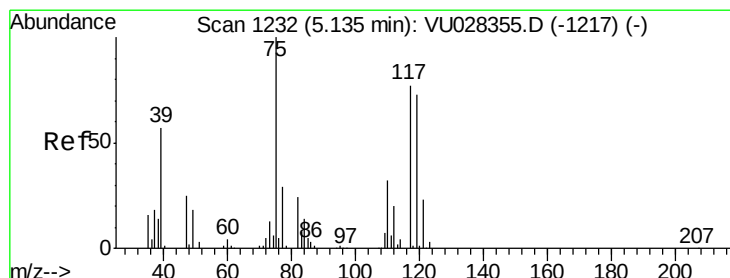
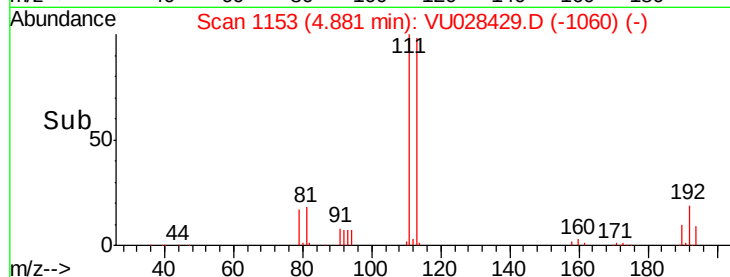
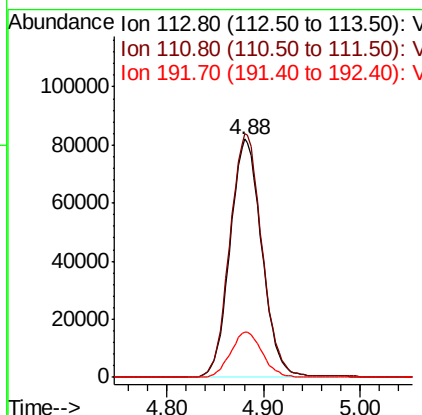
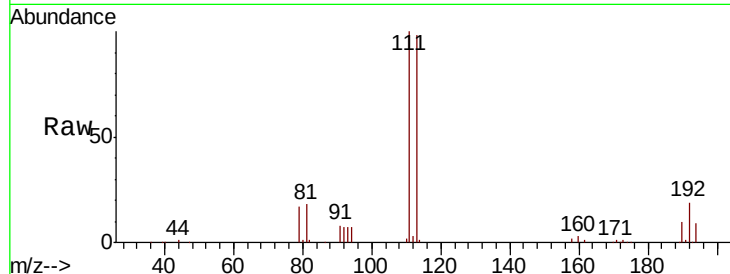




#35
 Dibromofluoromethane
 Concen: 49.461 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. -0.00 min
 Lab File: VU028429.D
 Acq: 03 Dec 2018 10:22

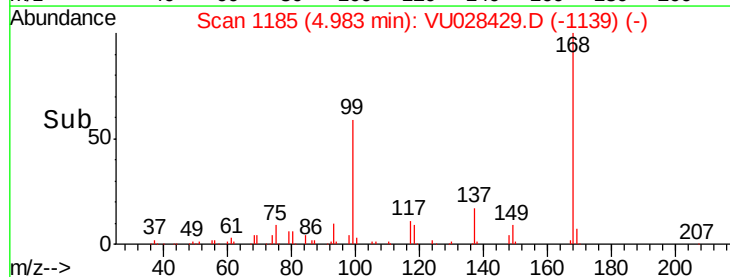
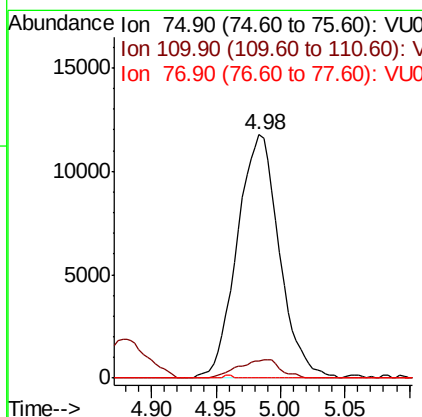
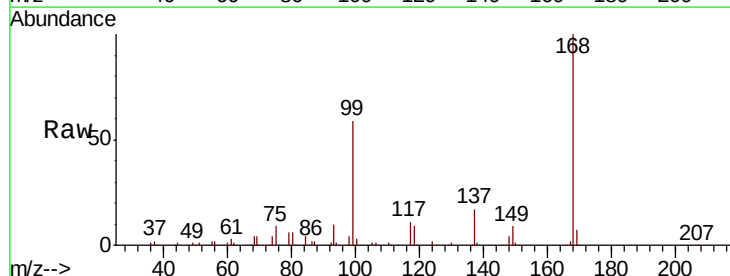
Instrument :
 MSVOA_U
 ClientSampleId :
 VU1203WBL01

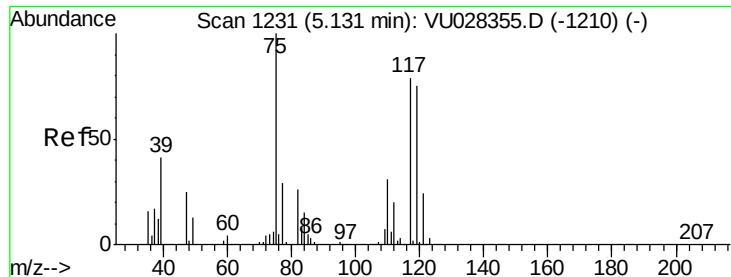
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.9	124.3
192	19.1	15.4	23.0



#36
 1,1-Dichloropropene
 Concen: 4.284 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU028429.D
 Acq: 03 Dec 2018 10:22

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.6	15.8	47.4#
77	0.0	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 5.942 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU028429.D

Acq: 03 Dec 2018 10:22

Instrument :

MSVOA_U

ClientSampleId :

VU1203WBL01

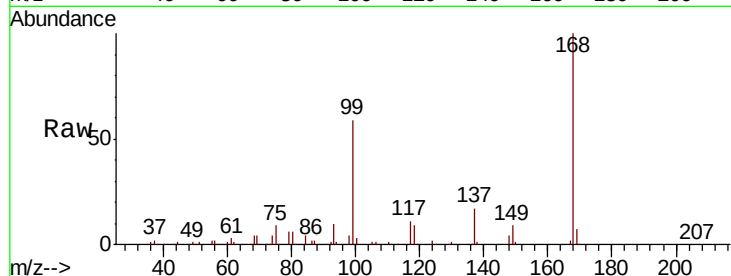
Tot Ion:117 Resp: 30404

Ion Ratio Lower Upper

117 100

119 4.3 76.3 114.5#

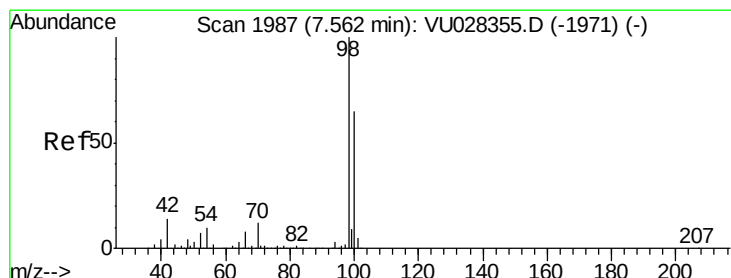
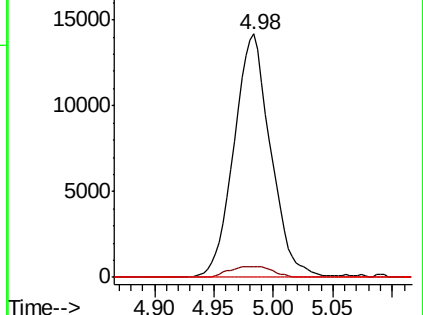
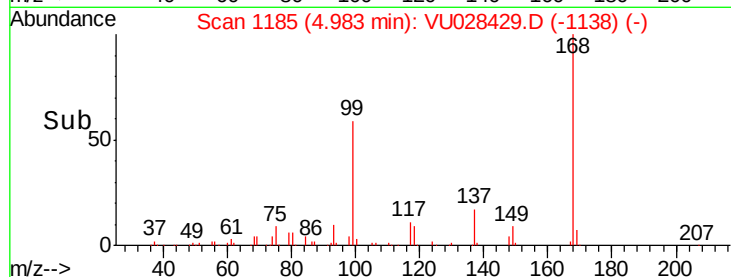
121 0.0 24.7 37.1#



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



#50

Toluene-d8

Concen: 48.068 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. -0.00 min

Lab File: VU028429.D

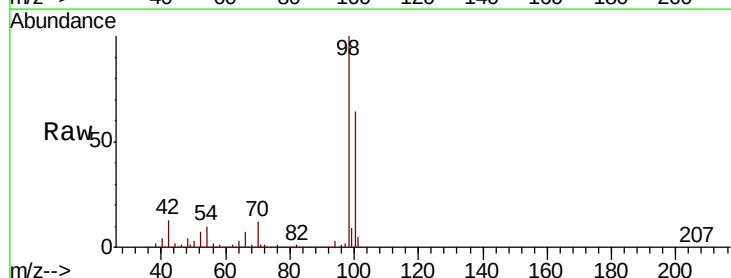
Acq: 03 Dec 2018 10:22

Tgt Ion: 98 Resp: 727907

Ion Ratio Lower Upper

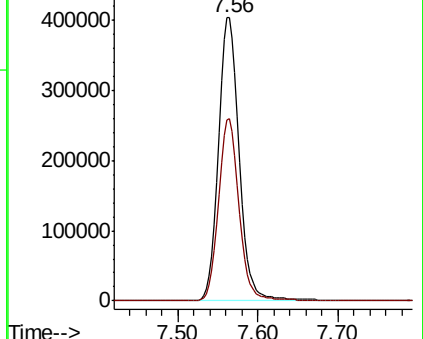
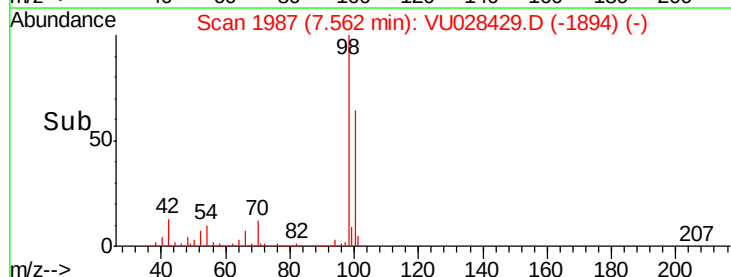
98 100

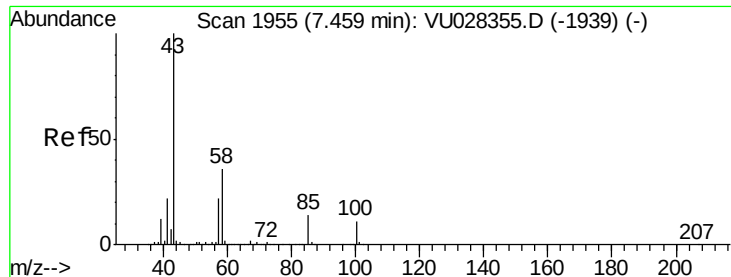
100 63.5 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU





#51

4-Methyl-2-Pentanone

Concen: 0.265 ug/l

RT: 7.47 min Scan# 1957

Delta R.T. 0.01 min

Lab File: VU028429.D

Acq: 03 Dec 2018 10:22

Instrument :

MSVOA_U

ClientSampleID :

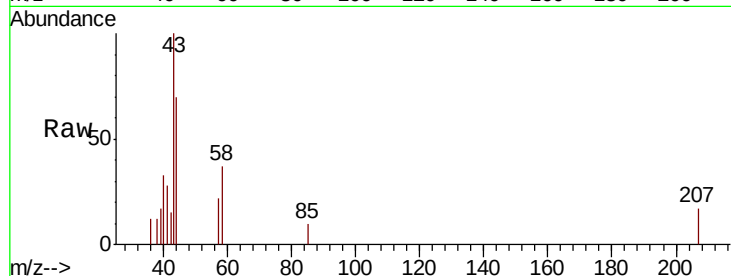
VU1203WBL01

Tot Ion: 43 Resp: 2276

Ion Ratio Lower Upper

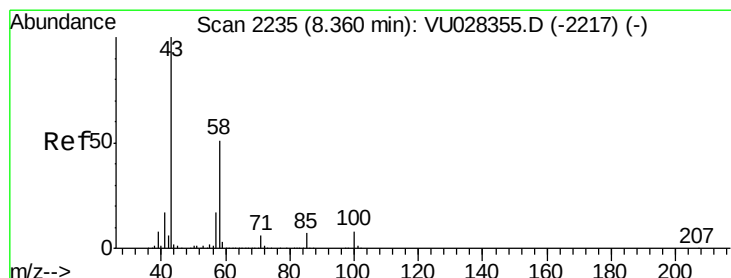
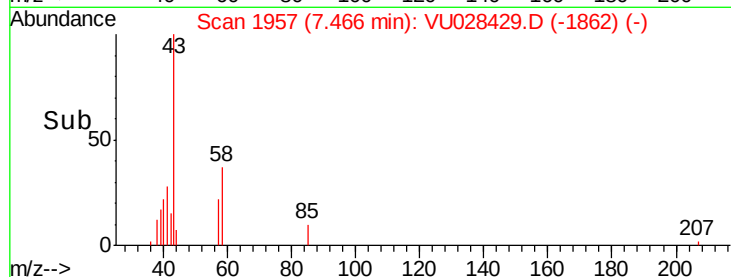
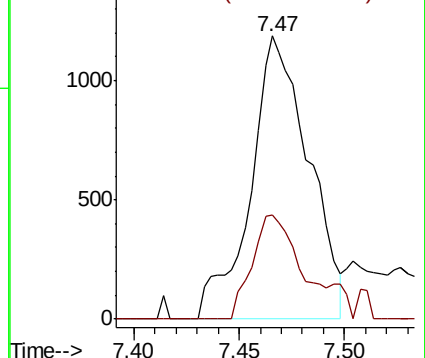
43 100

58 33.4 28.8 43.2



Abundance Ion 43.00 (42.70 to 43.70): VU028355.D (-1939) (-)

Ion 58.00 (57.70 to 58.70): VU028355.D (-1939) (-)



#59

2-Hexanone

Concen: 0.362 ug/l

RT: 8.37 min Scan# 2239

Delta R.T. 0.01 min

Lab File: VU028429.D

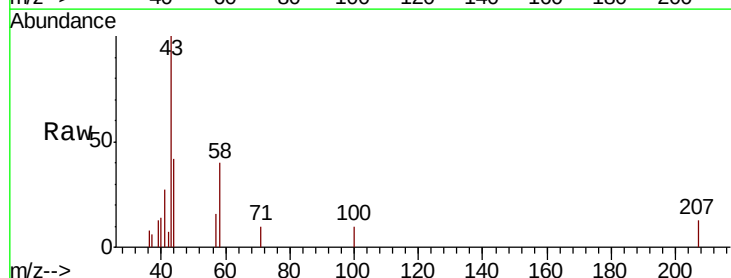
Acq: 03 Dec 2018 10:22

Tgt Ion: 43 Resp: 2409

Ion Ratio Lower Upper

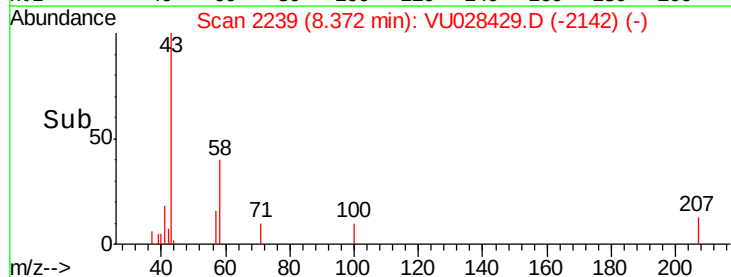
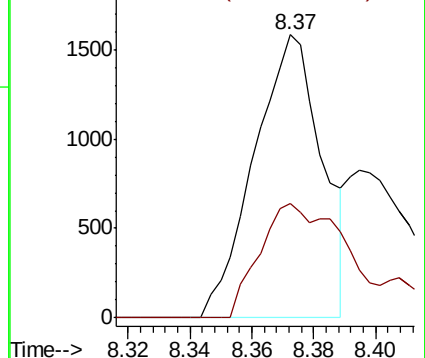
43 100

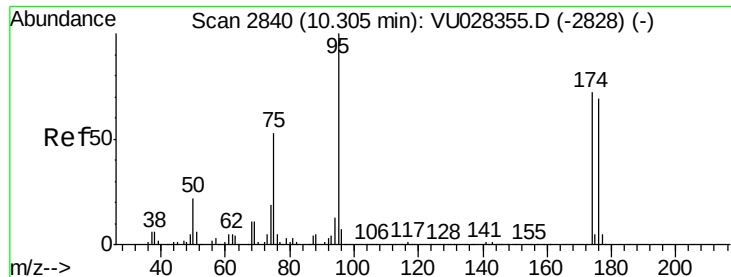
58 50.4 25.5 76.5



Abundance Ion 43.00 (42.70 to 43.70): VU028355.D (-2217) (-)

Ion 58.00 (57.70 to 58.70): VU028355.D (-2217) (-)





#62

4-Bromofluorobenzene

Concen: 44.040 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VU028429.D

Acq: 03 Dec 2018 10:22

Instrument :

MSVOA_U

ClientSampleId :

VU1203WBL01

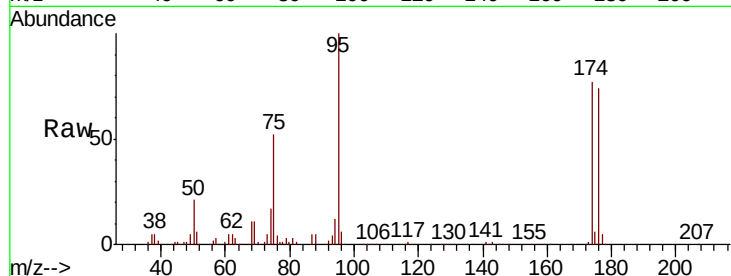
Tot Ion: 95 Resp: 240373

Ion Ratio Lower Upper

95 100

174 76.4 0.0 145.4

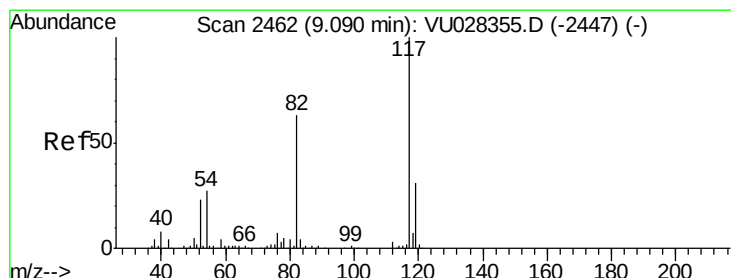
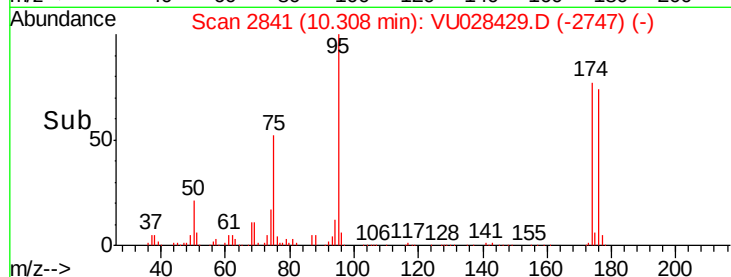
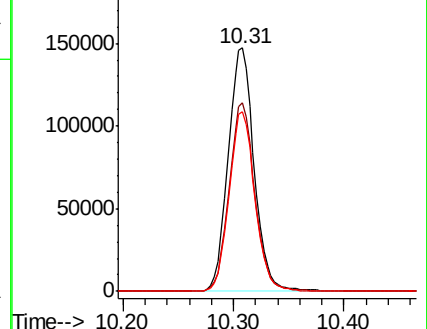
176 73.2 0.0 140.8



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: VU028429.D

Acq: 03 Dec 2018 10:22

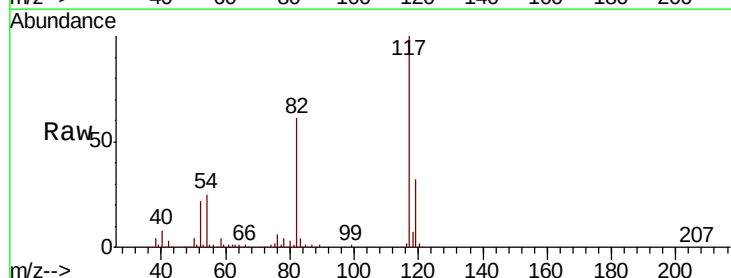
Tgt Ion: 117 Resp: 506565

Ion Ratio Lower Upper

117 100

82 60.9 50.3 75.5

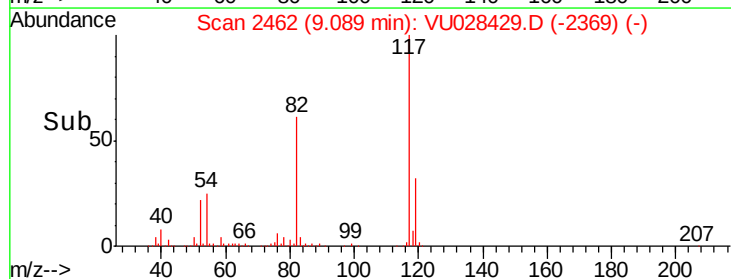
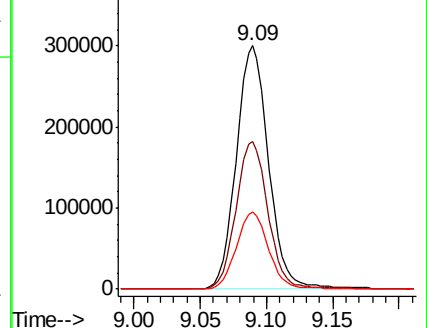
119 31.7 24.8 37.2

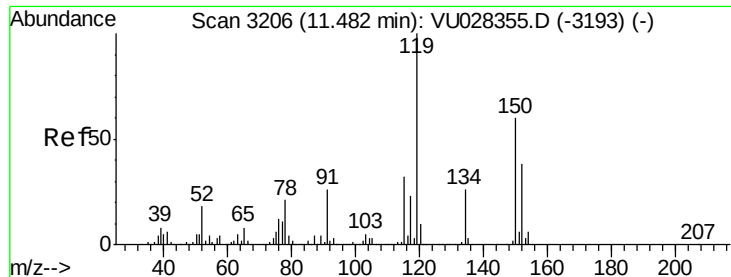


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VU0

Ion 118.90 (118.60 to 119.60): V



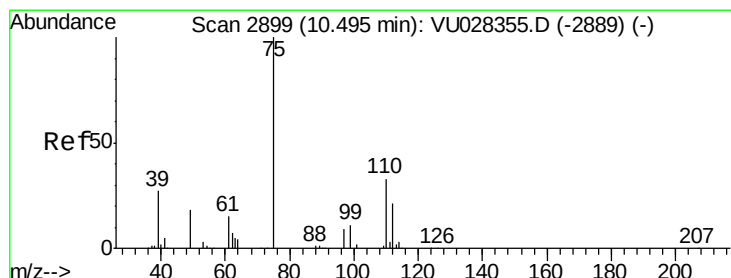
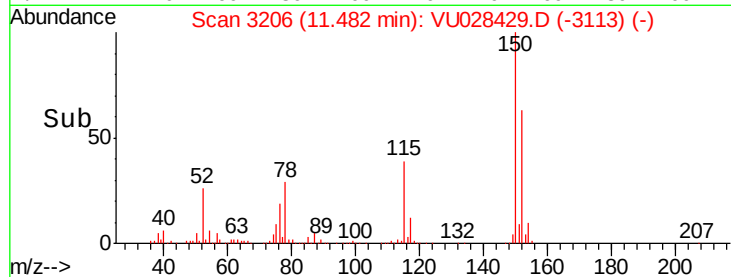
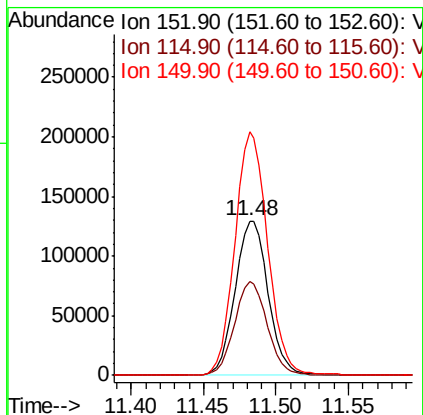
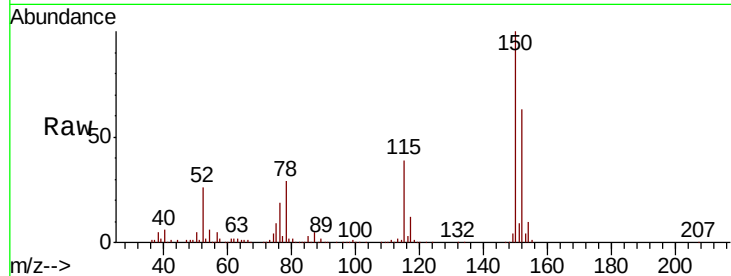


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3206
Delta R.T. -0.00 min
Lab File: VU028429.D
Acq: 03 Dec 2018 10:22

Instrument :
MSVOA_U
ClientSampleId :
VU1203WBL01

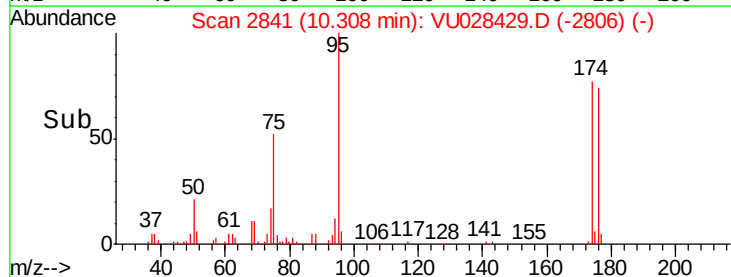
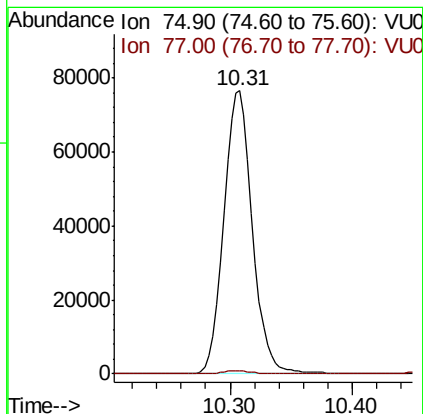
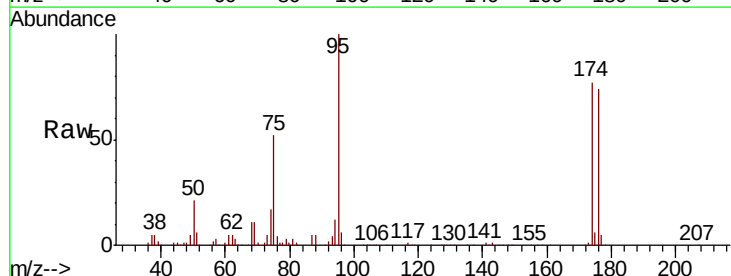
Tot Ion	Ratio	Lower	Upper
152	100		
115	60.2	45.0	134.8
150	156.7	0.0	349.2

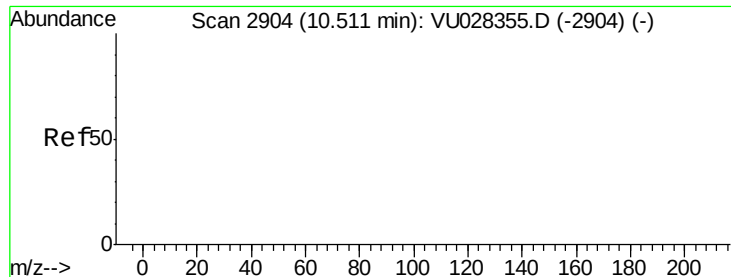


#76

1,2,3-Trichloropropane
Concen: 22.067 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.19 min
Lab File: VU028429.D
Acq: 03 Dec 2018 10:22

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.1	22.4	67.0#

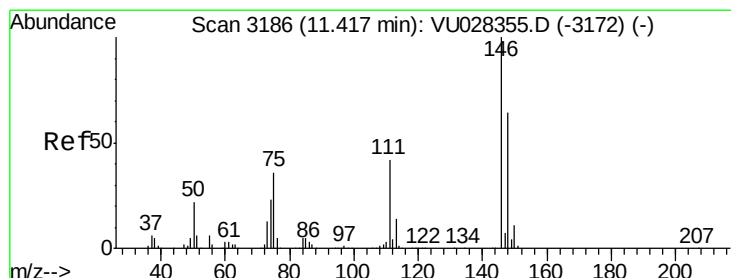
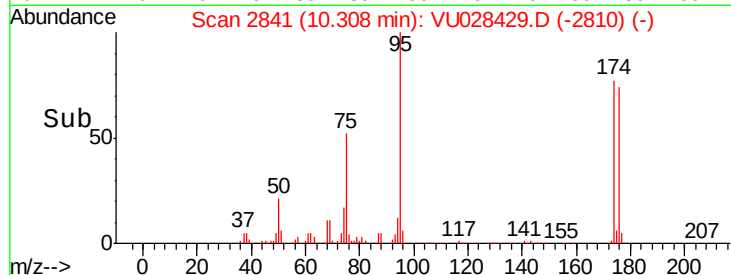
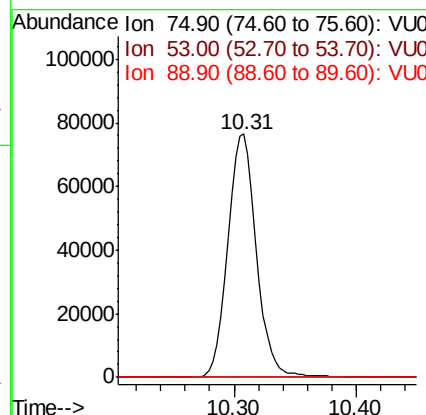
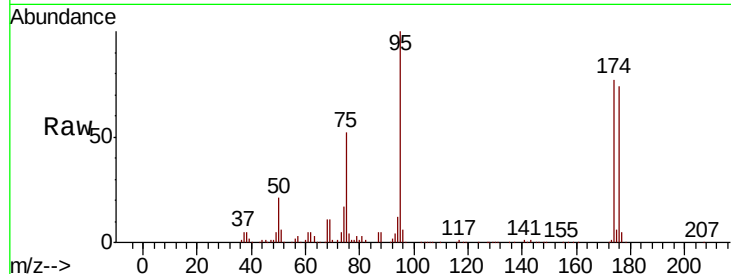




#81
trans-1,4-Dichloro-2-butene
Concen: 58.577 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.20 min
Lab File: VU028429.D
Acq: 03 Dec 2018 10:22

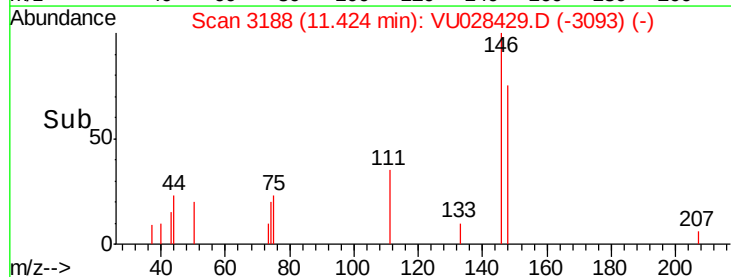
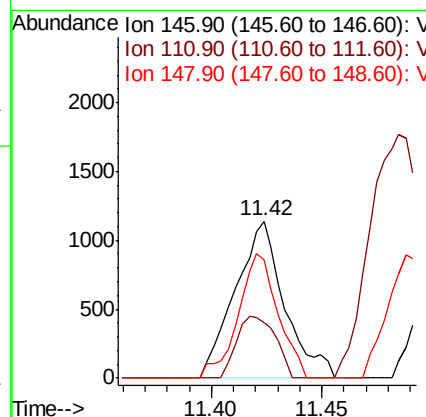
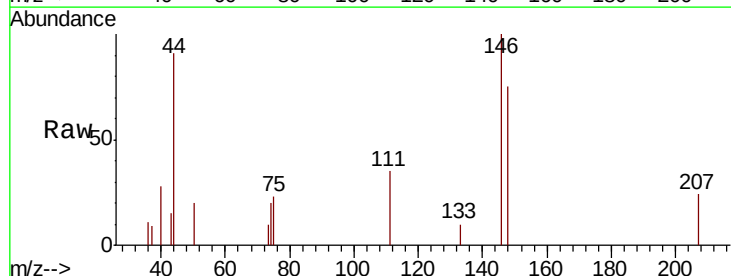
Instrument :
MSVOA_U
ClientSampleId :
VU1203WBL01

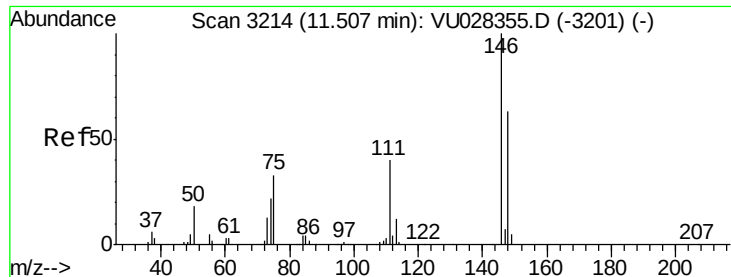
Tot Ion: 75 Resp: 125513
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0



#87
1,3-Dichlorobenzene
Concen: 0.258 ug/l
RT: 11.42 min Scan# 3188
Delta R.T. 0.01 min
Lab File: VU028429.D
Acq: 03 Dec 2018 10:22

Tgt Ion: 146 Resp: 1767
Ion Ratio Lower Upper
146 100
111 31.0 20.8 62.4
148 64.2 31.8 95.3





#88

1,4-Dichlorobenzene

Concen: 0.256 ug/l

RT: 11.42 min Scan# 3188

Delta R.T. -0.08 min

Lab File: VU028429.D

Acq: 03 Dec 2018 10:22

Instrument :

MSVOA_U

ClientSampleId :

VU1203WBL01

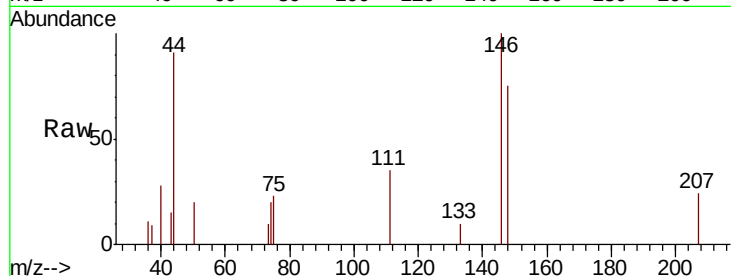
Tot Ion:146 Resp: 1767

Ion Ratio Lower Upper

146 100

111 31.0 20.6 61.9

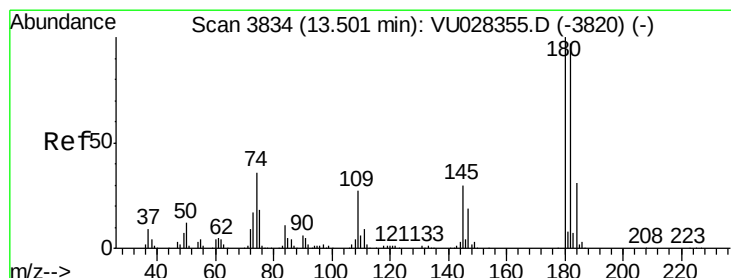
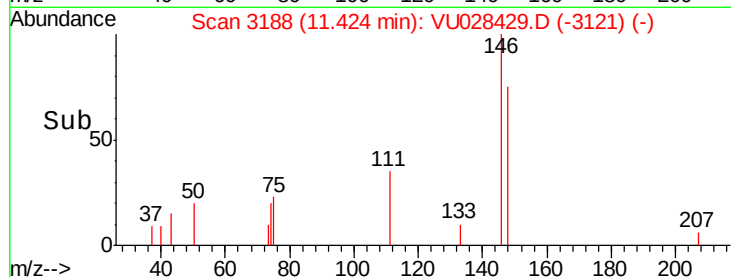
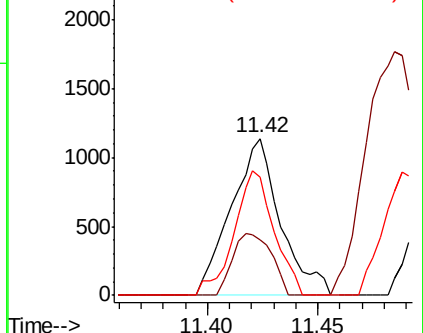
148 64.2 31.1 93.5



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#93

1,2,4-Trichlorobenzene

Concen: 0.633 ug/l

RT: 13.51 min Scan# 3836

Delta R.T. 0.01 min

Lab File: VU028429.D

Acq: 03 Dec 2018 10:22

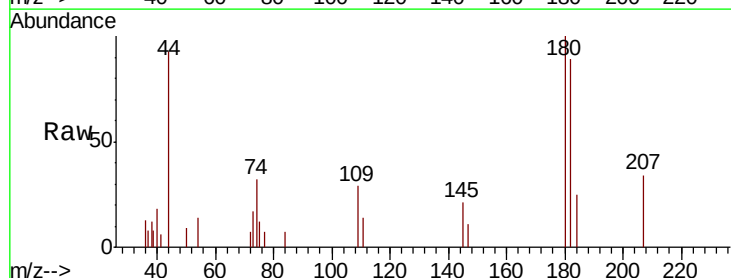
Tgt Ion:180 Resp: 2833

Ion Ratio Lower Upper

180 100

182 95.9 48.3 144.9

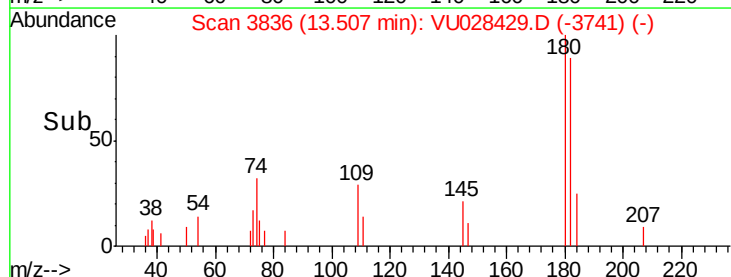
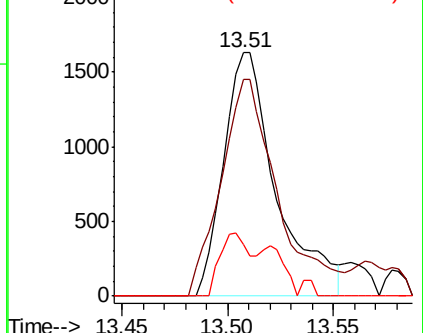
145 15.2 15.2 45.5

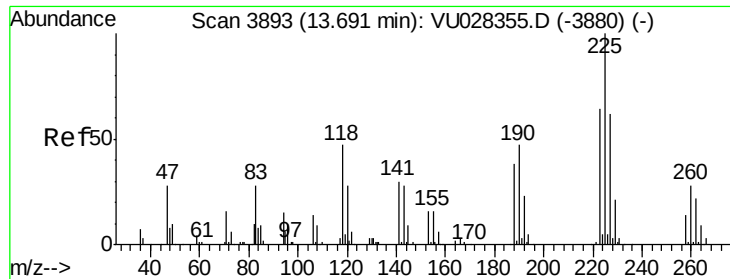


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.233 ug/l

RT: 13.69 min Scan# 3892

Delta R.T. -0.00 min

Lab File: VU028429.D

Acq: 03 Dec 2018 10:22

Instrument :

MSVOA_U

ClientSampleId :

VU1203WBL01

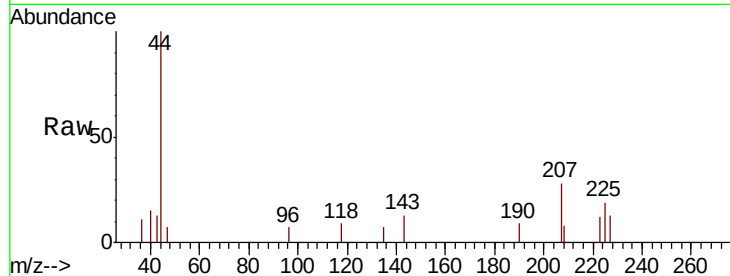
Tot Ion:225 Resp: 492

Ion Ratio Lower Upper

225 100

223 69.5 31.6 94.7

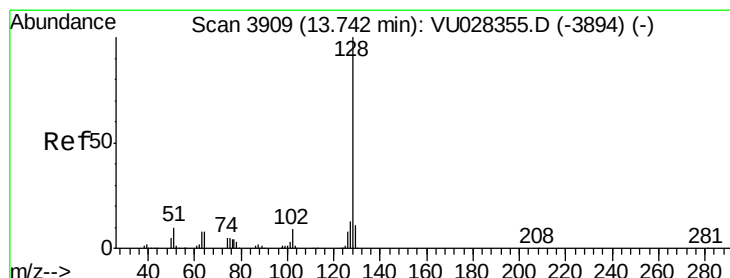
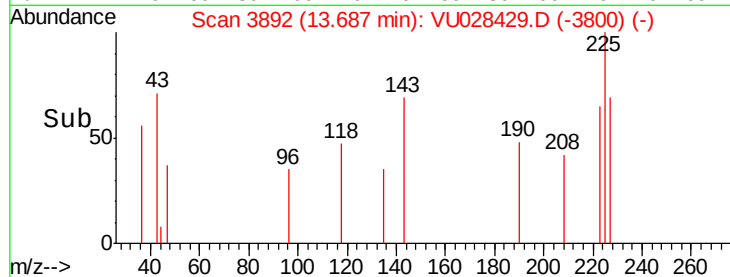
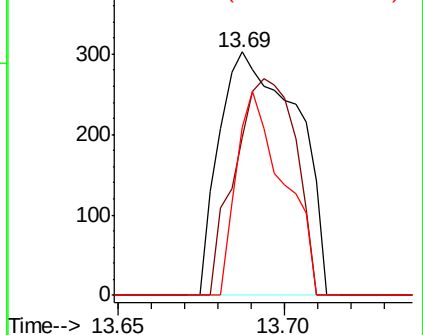
227 51.2 30.8 92.4



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 3.546 ug/l

RT: 13.75 min Scan# 3911

Delta R.T. 0.01 min

Lab File: VU028429.D

Acq: 03 Dec 2018 10:22

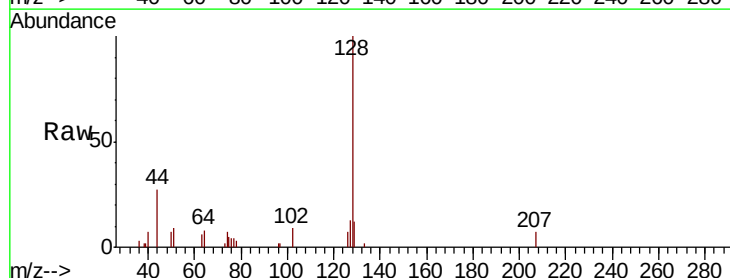
Tgt Ion:128 Resp: 13005

Ion Ratio Lower Upper

128 100

127 12.8 10.6 15.8

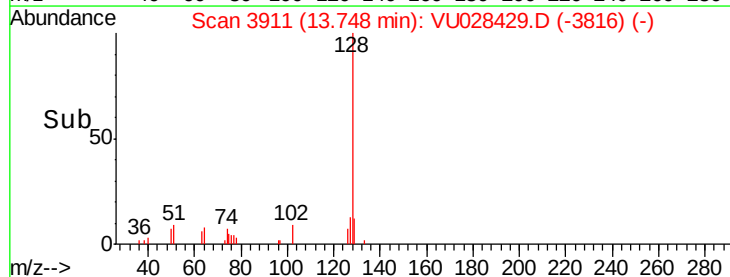
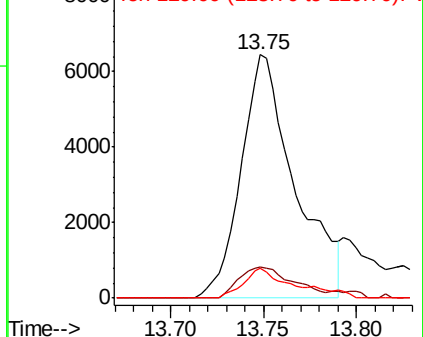
129 11.5 8.6 12.8

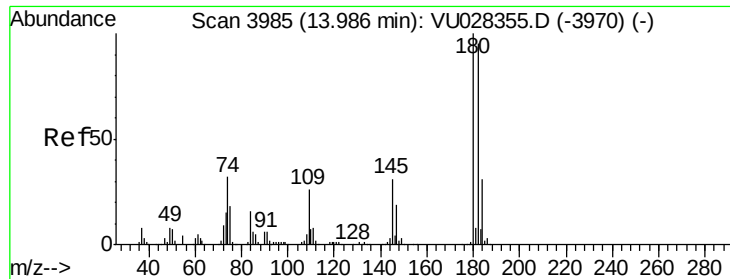


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96

1,2,3-Trichlorobenzene

Concen: 0.834 ug/l

RT: 14.00 min Scan# 3989

Delta R.T. 0.01 min

Lab File: VU028429.D

Acq: 03 Dec 2018 10:22

Instrument :

MSVOA_U

ClientSampleId :

VU1203WBL01

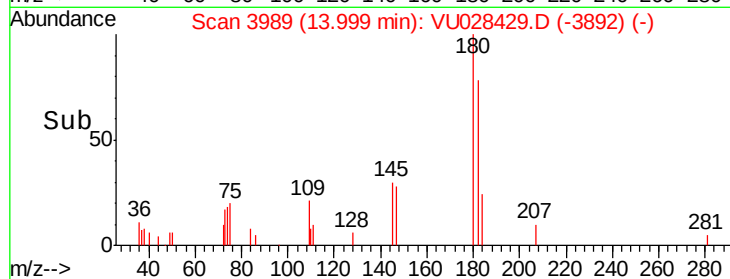
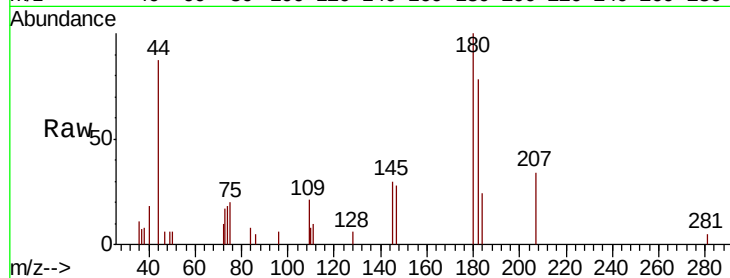
Tot Ion:180 Resp: 3776

Ion Ratio Lower Upper

180 100

182 88.1 47.7 143.1

145 27.5 15.7 47.1



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

