

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091219\
 Data File : VU034515.D
 Acq On : 12 Sep 2019 13:06
 Operator : JC/SP
 Sample : K4756-14
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 CPA-CPMW02D-M27W1-090419

Quant Time: Sep 13 07:07:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 06 05:10:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	212113	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	308146	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	321339	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	186747	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	191487	59.67	ug/l	0.00
Spiked Amount			Recovery	=	119.34%	
35) Dibromofluoromethane	4.86	113	174204	60.76	ug/l	0.00
Spiked Amount			Recovery	=	121.52%	
50) Toluene-d8	7.55	98	580027	53.84	ug/l	0.00
Spiked Amount			Recovery	=	107.68%	
62) 4-Bromofluorobenzene	10.29	95	201009	48.33	ug/l	0.00
Spiked Amount			Recovery	=	96.66%	

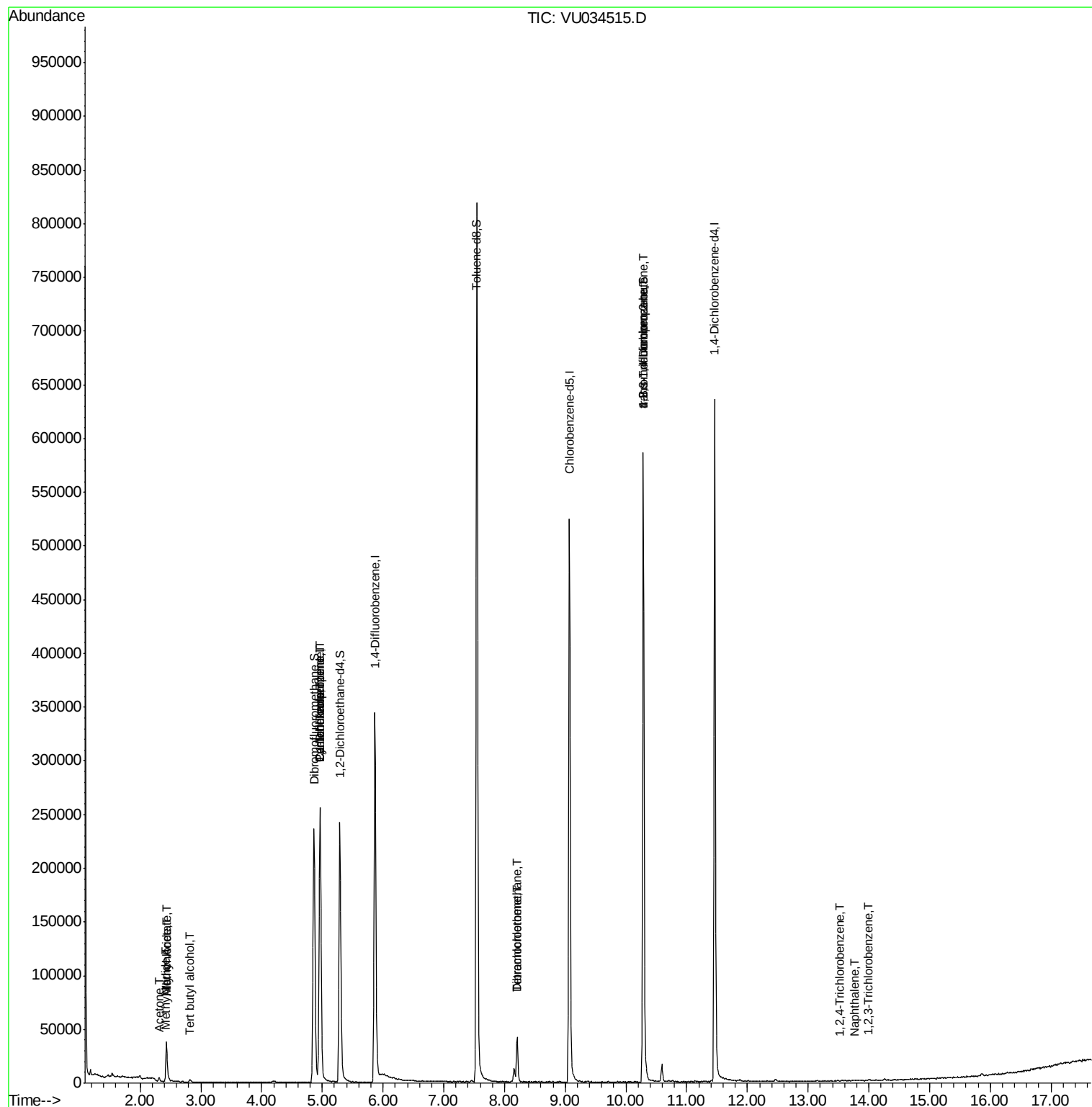
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	687	Below Cal		87
6) Chloroethane	1.69	64	327	Below Cal	#	43
10) Methyl Iodide	2.41	142	398	4.010	ug/l #	43
11) Tert butyl alcohol	2.82	59	1615	2.382	ug/l #	73
14) Allyl chloride	2.43	41	4126	0.935	ug/l #	65
16) Acetone	2.32	43	3846	2.316	ug/l	94
18) Methyl Acetate	2.43	43	9218	2.281	ug/l #	52
20) Methylene Chloride	2.68	84	138	Below Cal	#	81
31) Cyclohexane	4.96	56	3525	0.938	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	15060	4.506	ug/l #	47
38) Carbon Tetrachloride	4.96	117	18526	5.192	ug/l #	17
60) Dibromochloromethane	8.21	129	9319	2.829	ug/l #	12
64) Tetrachloroethene	8.21	164	10256	3.679	ug/l	96
76) 1,2,3-Trichloropropane	10.29	75	96008	23.552	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	96008	79.205	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.52	180	40	3.460	ug/l #	12
95) Naphthalene	13.76	128	165	3.978	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.00	180	148	2.671	ug/l #	12

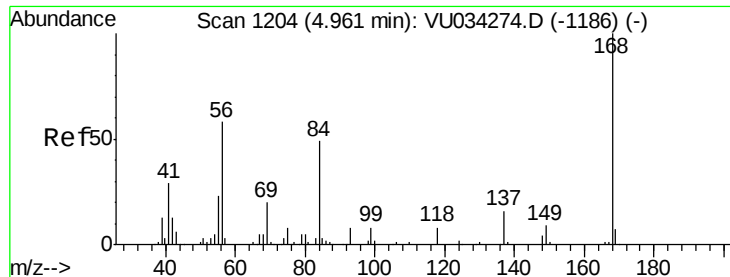
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034515.D

Acq: 12 Sep 2019 13:06

Instrument :

MSVOA_U

ClientSampleId :

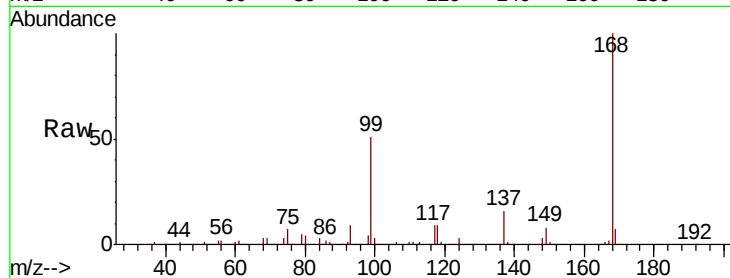
CPA-CPMW02D-M27W1-090419

Tgt Ion:168 Resp: 212113

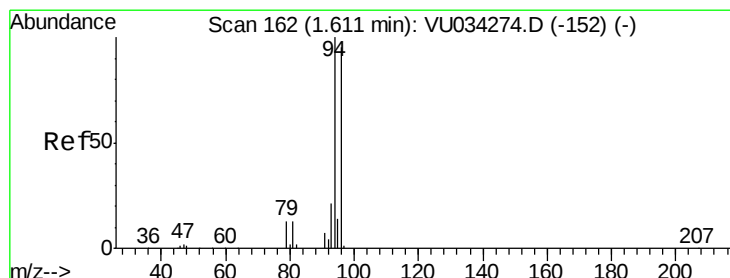
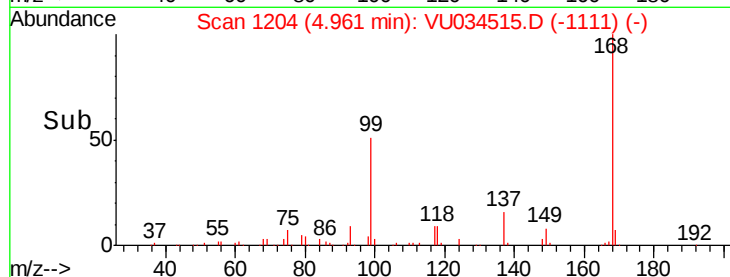
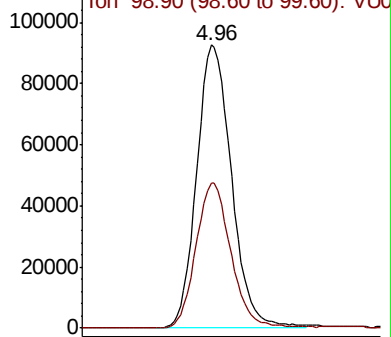
Ion Ratio Lower Upper

168 100

99 51.5 41.6 62.4



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



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 168

Delta R.T. 0.02 min

Lab File: VU034515.D

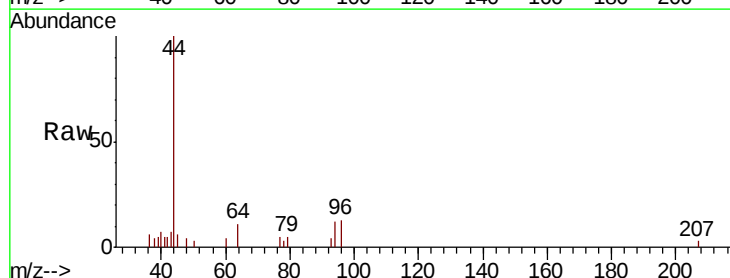
Acq: 12 Sep 2019 13:06

Tgt Ion: 94 Resp: 687

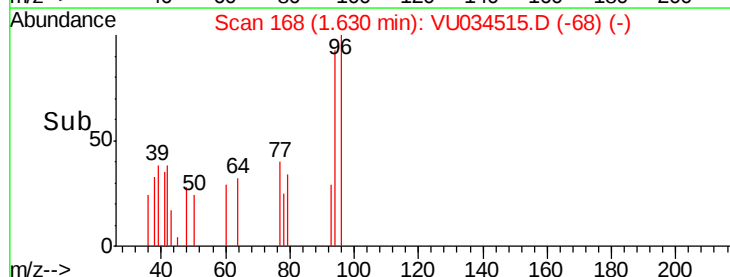
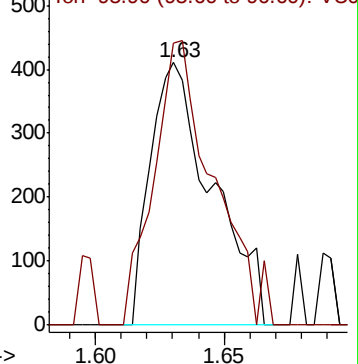
Ion Ratio Lower Upper

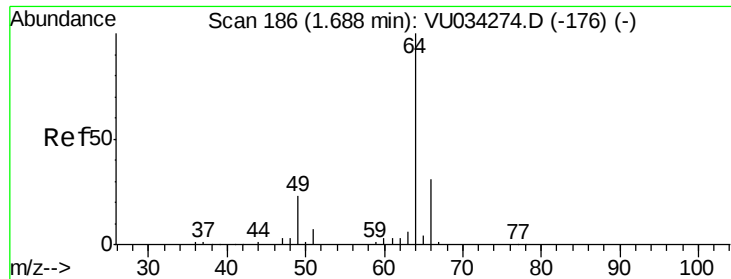
94 100

96 107.5 75.7 113.5



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





#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU034515.D

Acq: 12 Sep 2019 13:06

Instrument :

MSVOA_U

ClientSampleId :

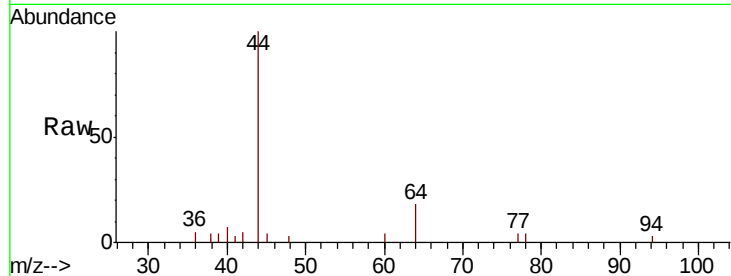
CPA-CPMW02D-M27W1-090419

Tgt Ion: 64 Resp: 327

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



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

Ion 65.90 (65.60 to 66.60): VU034274.D (-176) (-)

1.69

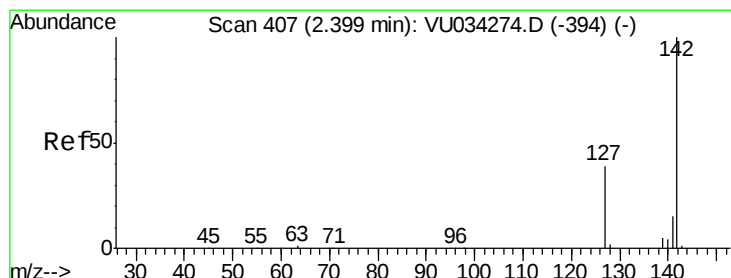
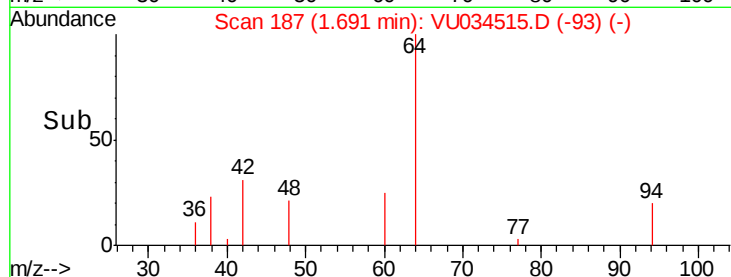
600

400

200

0

Time-->



#10

Methyl Iodide

Concen: 4.010 ug/l

RT: 2.41 min Scan# 409

Delta R.T. 0.01 min

Lab File: VU034515.D

Acq: 12 Sep 2019 13:06

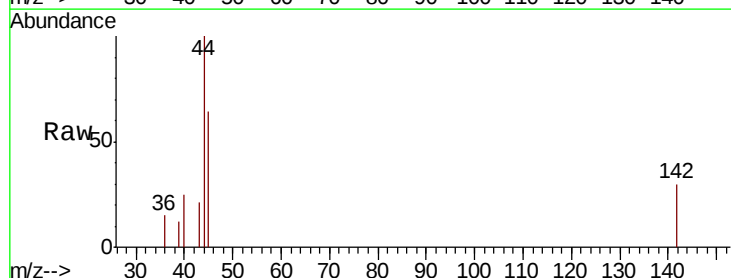
Tgt Ion: 142 Resp: 398

Ion Ratio Lower Upper

142 100

127 0.0 32.1 48.1#

141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): VU034274.D (-394) (-)

Ion 126.80 (126.50 to 127.50): VU034274.D (-394) (-)

Ion 140.80 (140.50 to 141.50): VU034274.D (-394) (-)

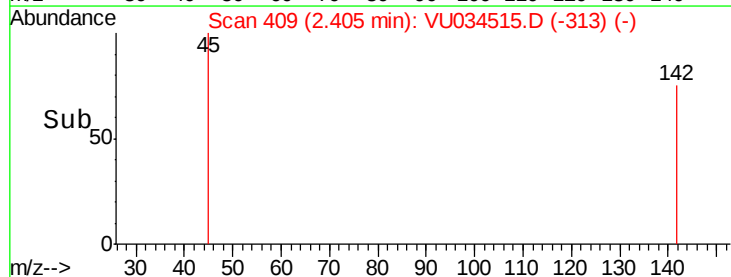
300

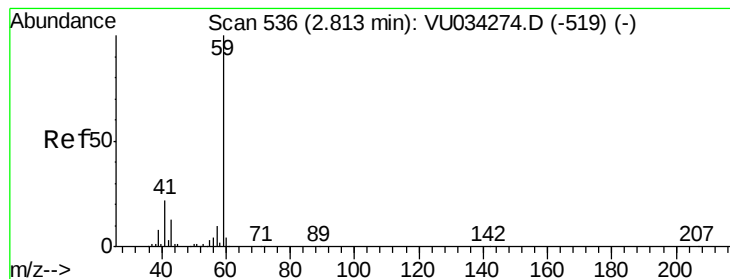
200

100

0

Time-->





#11

Tert butyl alcohol

Concen: 2.382 ug/l

RT: 2.82 min Scan# 538

Delta R.T. 0.01 min

Lab File: VU034515.D

Acq: 12 Sep 2019 13:06

Instrument :

MSVOA_U

ClientSampleId :

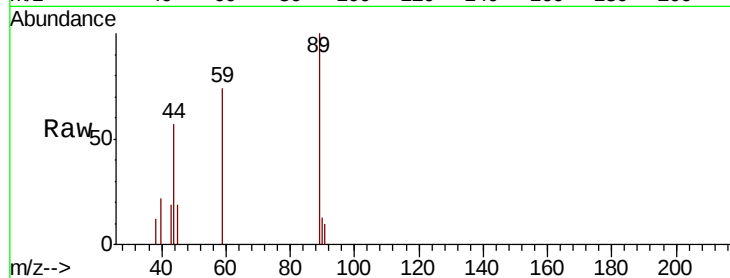
CPA-CPMW02D-M27W1-090419

Tgt Ion: 59 Resp: 1615

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

2.82

800

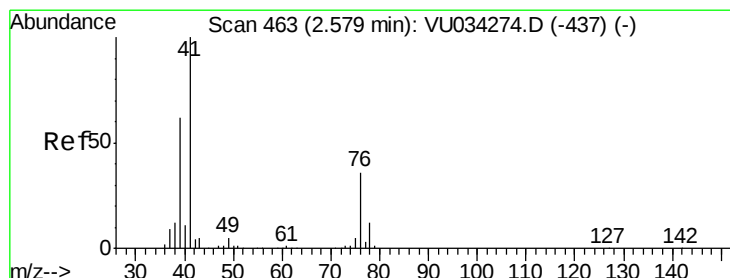
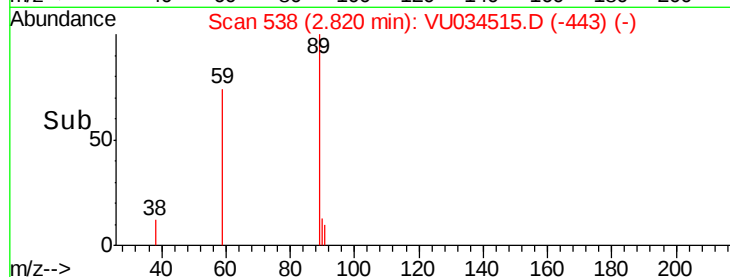
600

400

200

0

Time-->



#14

Allyl chloride

Concen: 0.935 ug/l

RT: 2.43 min Scan# 418

Delta R.T. -0.14 min

Lab File: VU034515.D

Acq: 12 Sep 2019 13:06

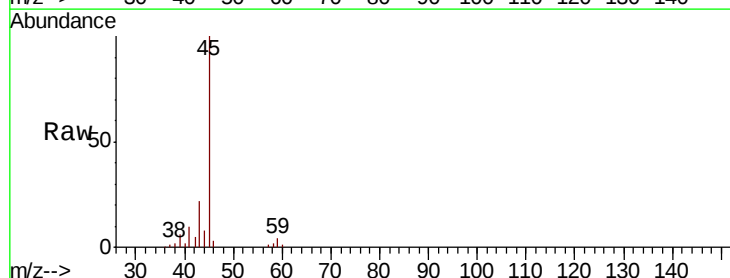
Tgt Ion: 41 Resp: 4126

Ion Ratio Lower Upper

41 100

39 68.3 43.5 65.3#

76 0.0 27.0 40.6#



Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 75.90 (75.60 to 76.60): VU0

3000

2500

2000

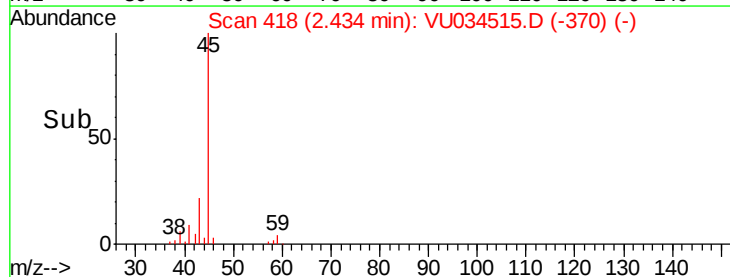
1500

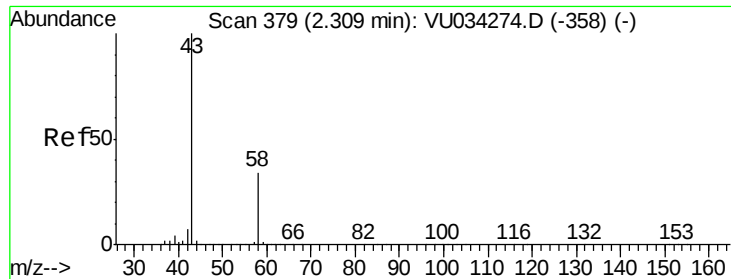
1000

500

0

Time-->

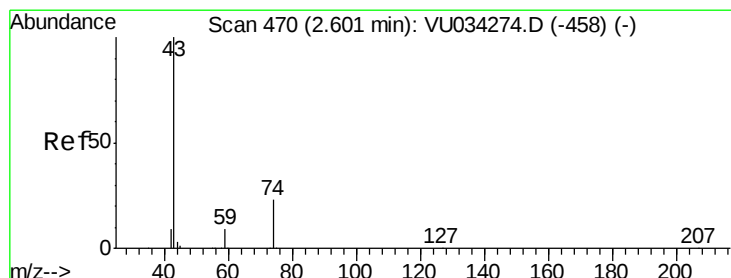
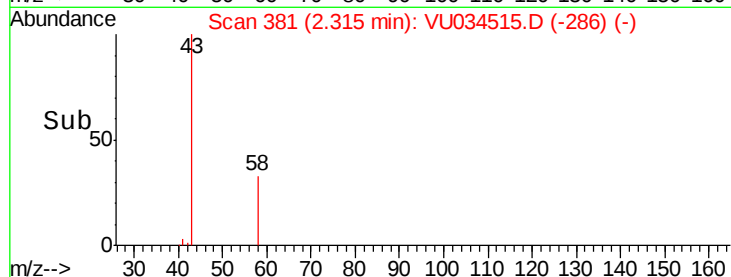
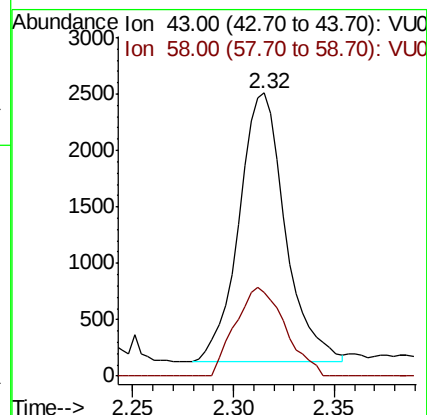
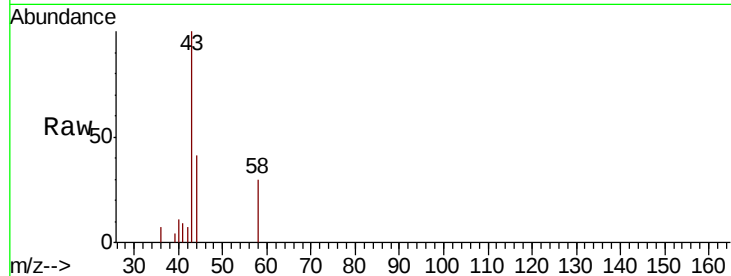




#16
Acetone
Concen: 2.316 ug/l
RT: 2.32 min Scan# 381
Delta R.T. 0.01 min
Lab File: VU034515.D
Acq: 12 Sep 2019 13:06

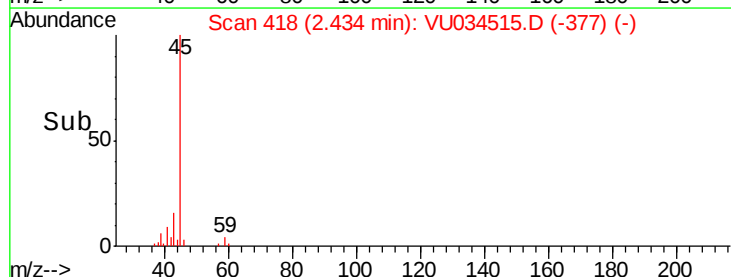
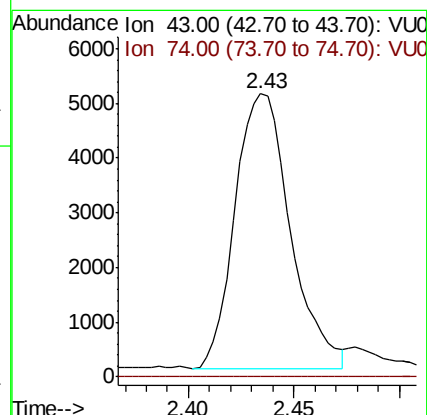
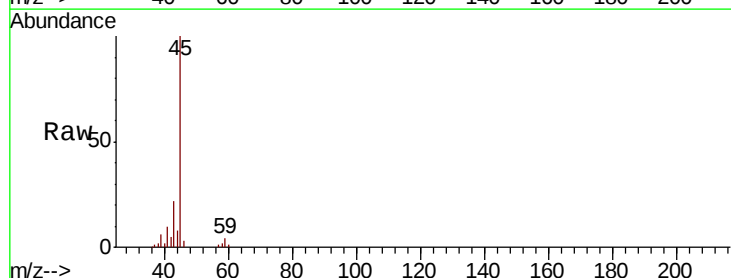
Instrument :
MSVOA_U
ClientSampleId :
CPA-CPMW02D-M27W1-090419

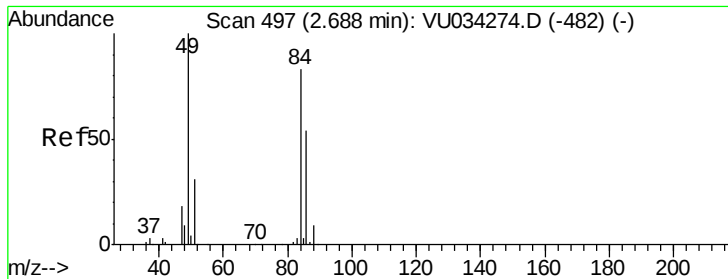
Tgt Ion: 43 Resp: 3846
Ion Ratio Lower Upper
43 100
58 31.1 27.6 41.4



#18
Methyl Acetate
Concen: 2.281 ug/l
RT: 2.43 min Scan# 418
Delta R.T. -0.17 min
Lab File: VU034515.D
Acq: 12 Sep 2019 13:06

Tgt Ion: 43 Resp: 9218
Ion Ratio Lower Upper
43 100
74 0.0 18.9 28.3#

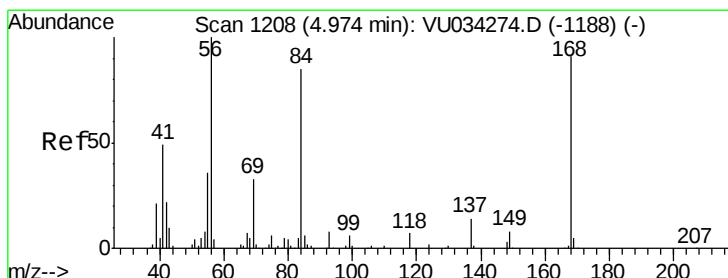
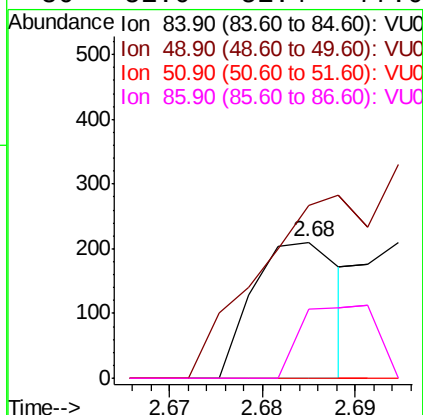
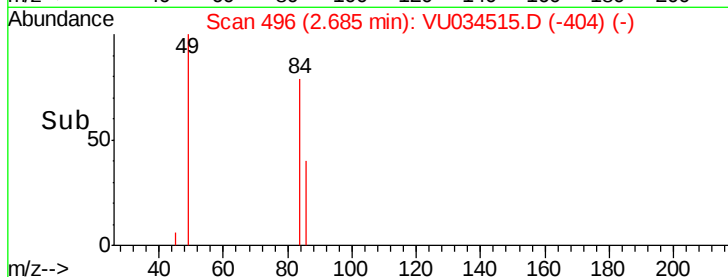
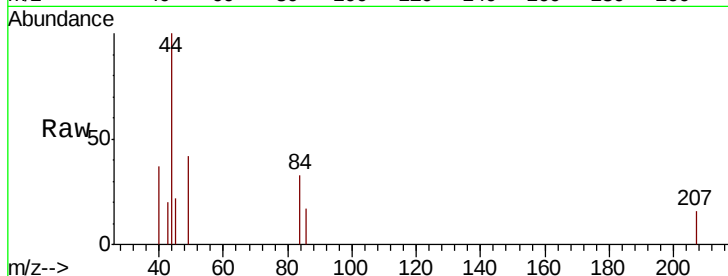




#20
Methylene Chloride
Concen: Below Cal
RT: 2.68 min Scan# 496
Delta R.T. -0.00 min
Lab File: VU034515.D
Acq: 12 Sep 2019 13:06

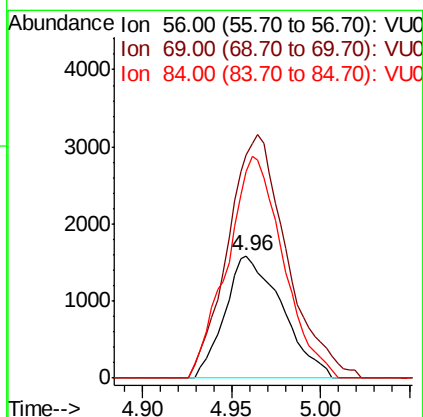
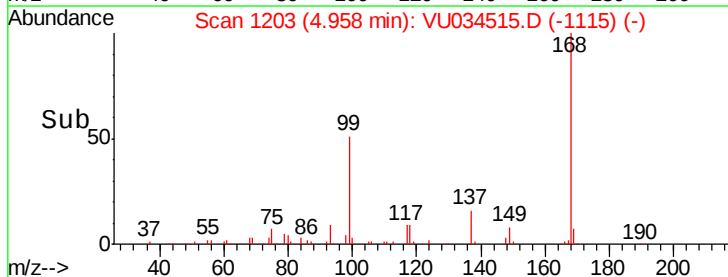
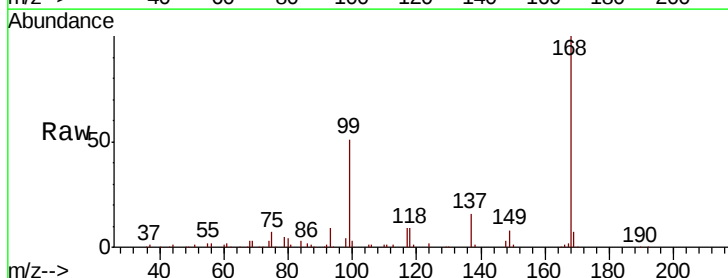
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MSVOA_U
ClientSampleId :
CPA-CPMW02D-M27W1-090419

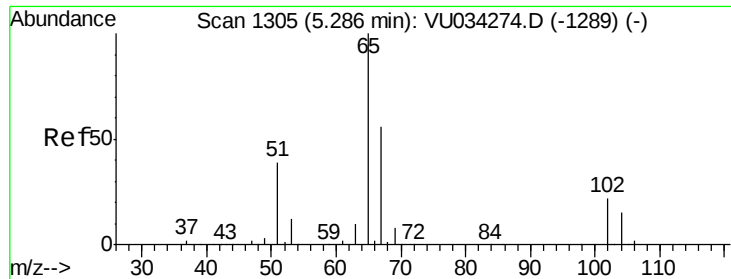
Tgt Ion: 84 Resp: 138
Ion Ratio Lower Upper
84 100
49 127.1 96.0 144.0
51 0.0 30.0 45.0#
86 51.0 51.4 77.0#



#31
Cyclohexane
Concen: 0.938 ug/l
RT: 4.96 min Scan# 1203
Delta R.T. -0.02 min
Lab File: VU034515.D
Acq: 12 Sep 2019 13:06

Tgt Ion: 56 Resp: 3525
Ion Ratio Lower Upper
56 100
69 182.4 26.7 40.1#
84 169.2 68.2 102.4#

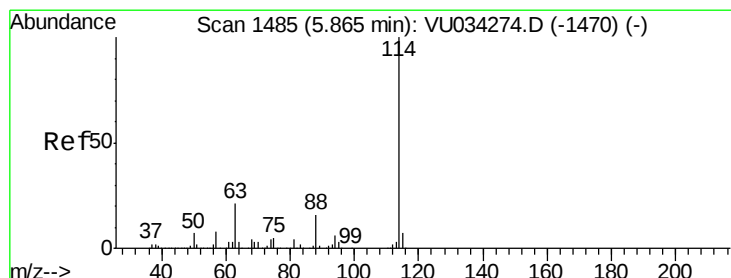
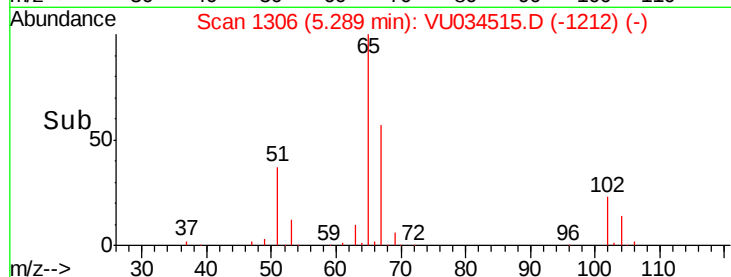
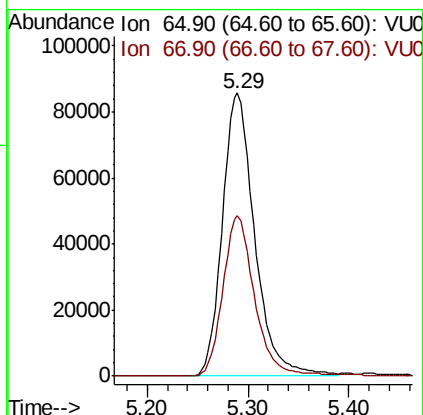
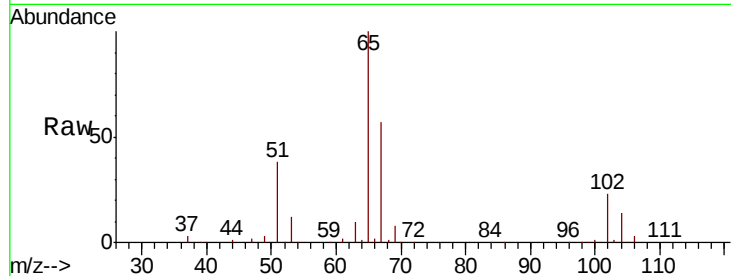




#33
 1,2-Dichloroethane-d4
 Concen: 59.666 ug/l
 RT: 5.29 min Scan# 1306
 Delta R.T. 0.00 min
 Lab File: VU034515.D
 Acq: 12 Sep 2019 13:06

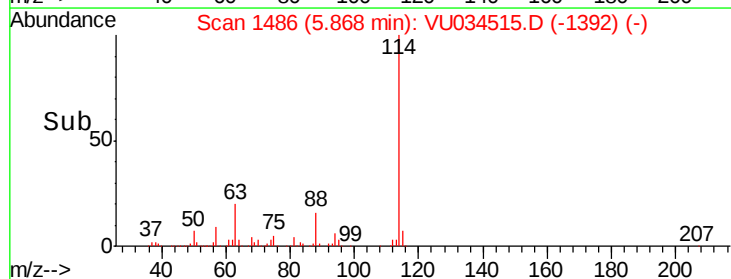
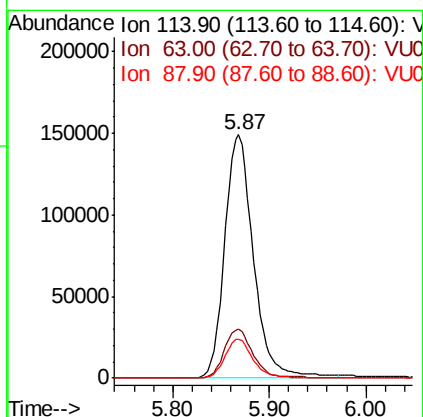
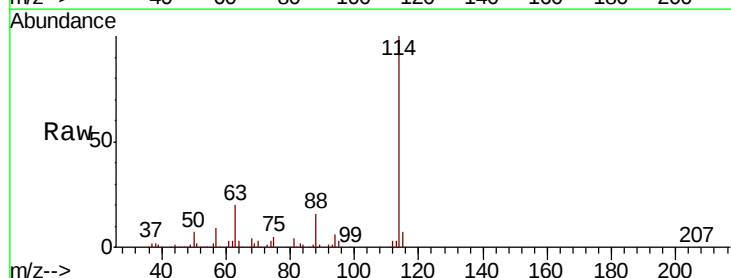
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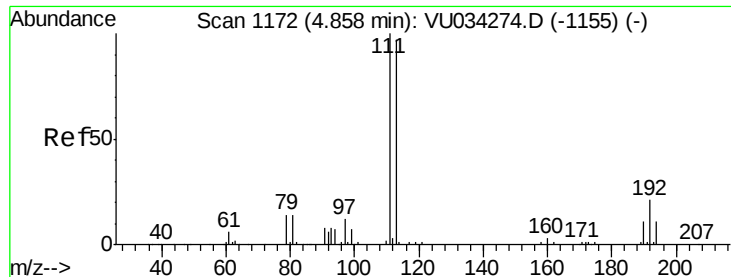
Tgt Ion: 65 Resp: 191487
 Ion Ratio Lower Upper
 65 100
 67 55.5 0.0 112.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034515.D
 Acq: 12 Sep 2019 13:06

Tgt Ion: 114 Resp: 308146
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 42.4
 88 16.1 0.0 32.4

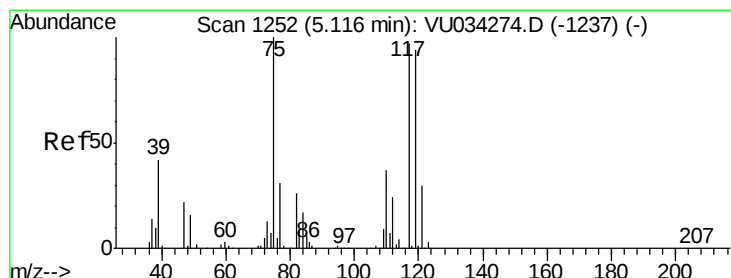
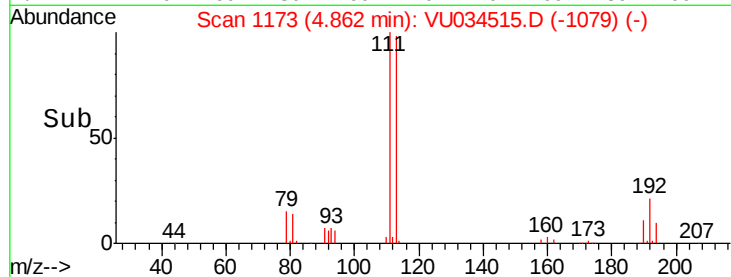
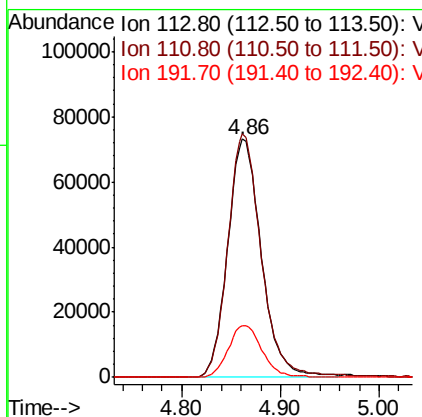
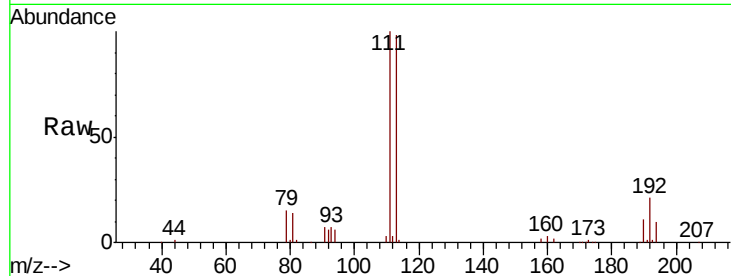




#35
 Dibromofluoromethane
 Concen: 60.755 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034515.D
 Acq: 12 Sep 2019 13:06

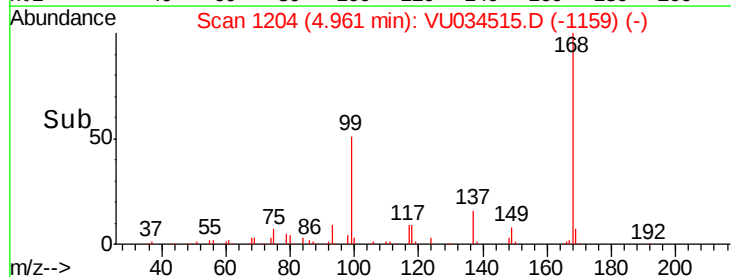
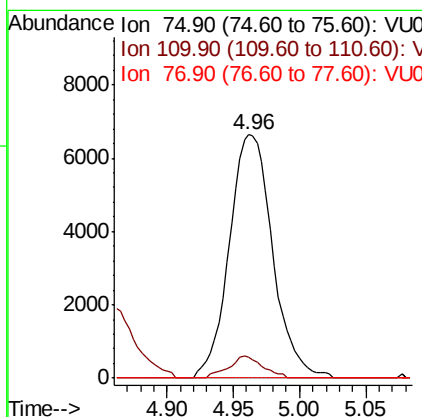
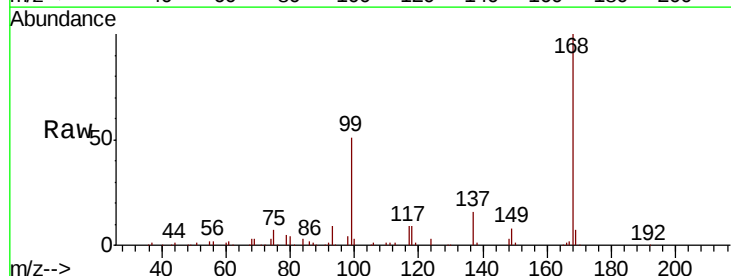
Instrument :
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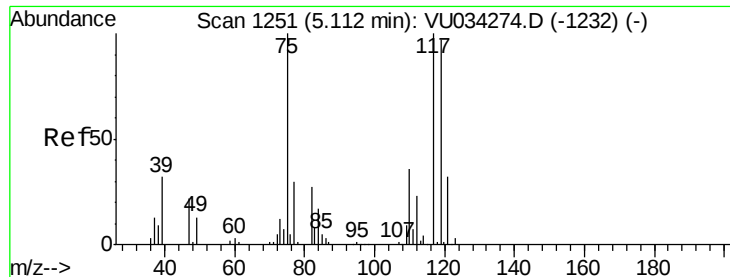
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.5	81.5	122.3
192	22.0	17.8	26.8



#36
 1,1-Dichloropropene
 Concen: 4.506 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034515.D
 Acq: 12 Sep 2019 13:06

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.0	18.3	54.9#
77	0.0	24.9	37.3#

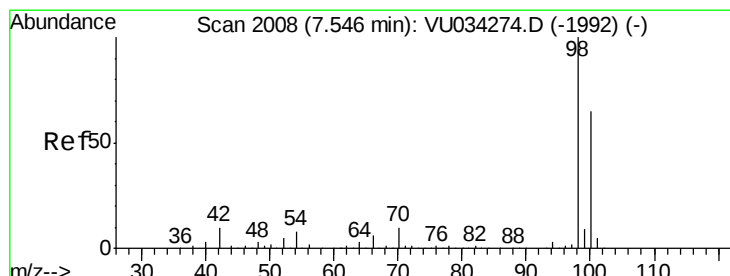
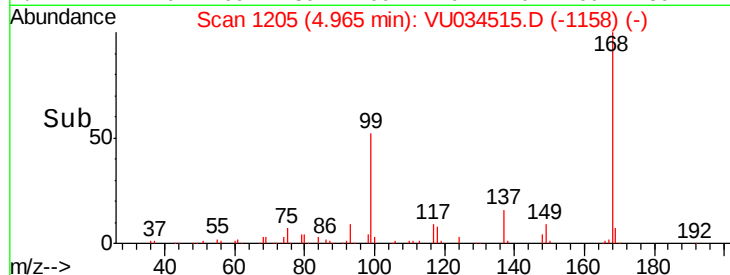
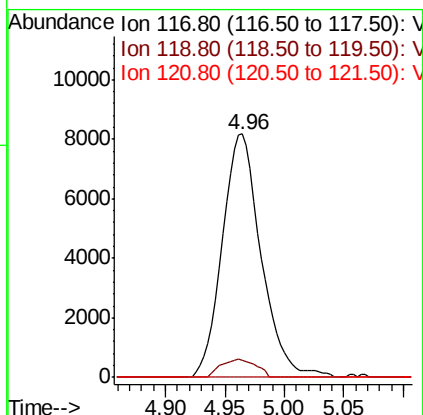
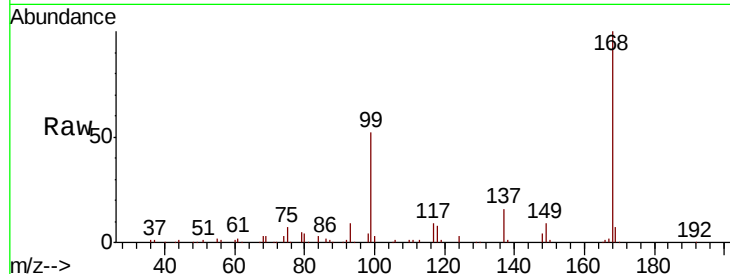




#38
Carbon Tetrachloride
Concen: 5.192 ug/l
RT: 4.96 min Scan# 1205
Delta R.T. -0.15 min
Lab File: VU034515.D
Acq: 12 Sep 2019 13:06

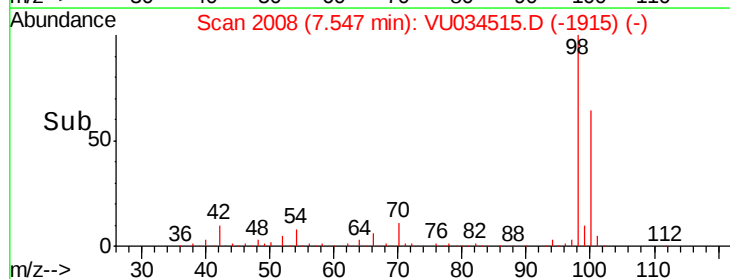
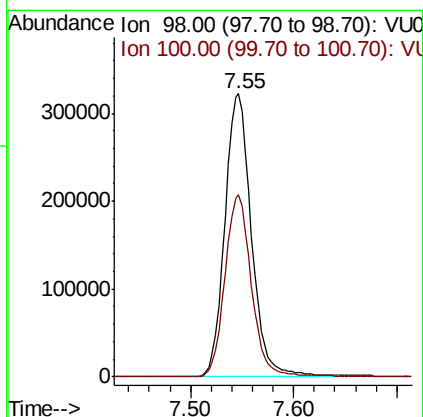
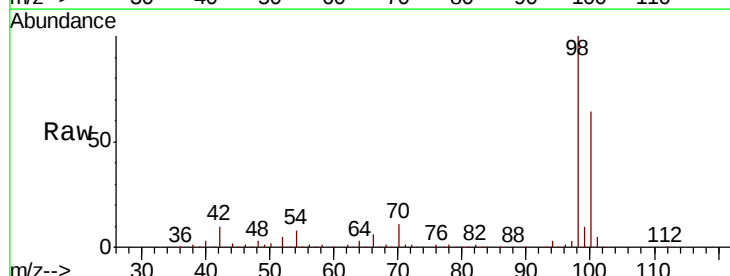
Instrument :
MSVOA_U
ClientSampleId :
CPA-CPMW02D-M27W1-090419

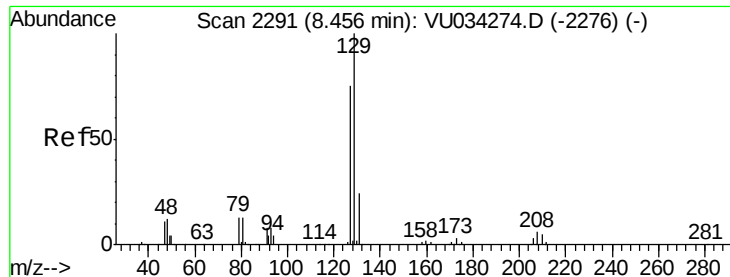
Tgt Ion:117 Resp: 18526
Ion Ratio Lower Upper
117 100
119 6.9 77.8 116.6#
121 0.0 25.2 37.8#



#50
Toluene-d8
Concen: 53.843 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034515.D
Acq: 12 Sep 2019 13:06

Tgt Ion: 98 Resp: 580027
Ion Ratio Lower Upper
98 100
100 64.4 51.7 77.5





#60

Dibromochloromethane

Concen: 2.829 ug/l

RT: 8.21 min Scan# 2214

Delta R.T. -0.25 min

Lab File: VU034515.D

Acq: 12 Sep 2019 13:06

Instrument :

MSVOA_U

ClientSampleId :

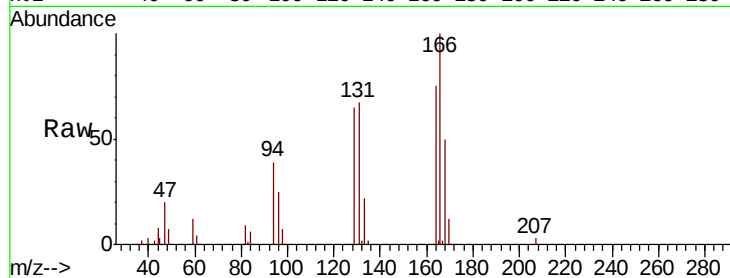
CPA-CPMW02D-M27W1-090419

Tgt Ion:129 Resp: 9319

Ion Ratio Lower Upper

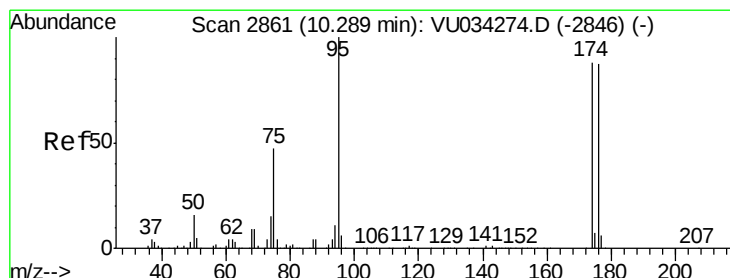
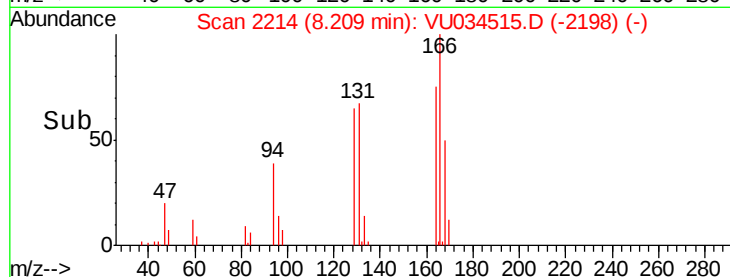
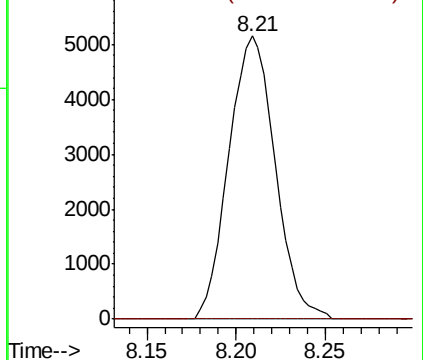
129 100

127 0.0 37.9 113.7#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 48.329 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VU034515.D

Acq: 12 Sep 2019 13:06

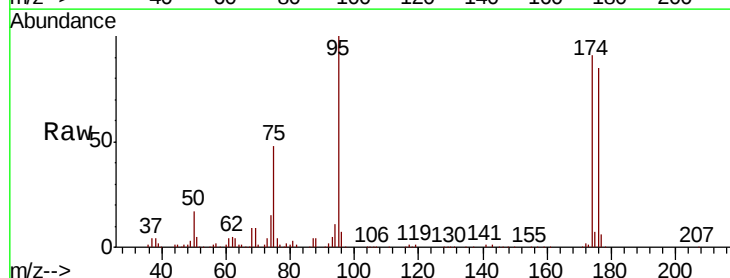
Tgt Ion: 95 Resp: 201009

Ion Ratio Lower Upper

95 100

174 91.4 0.0 175.2

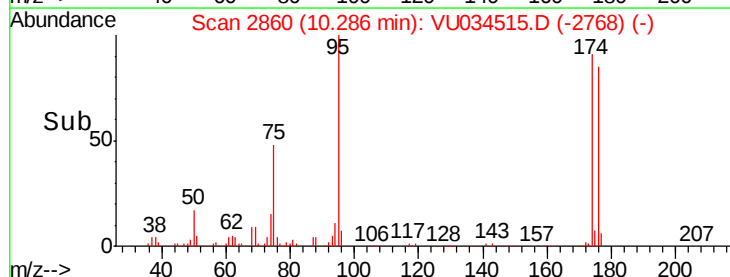
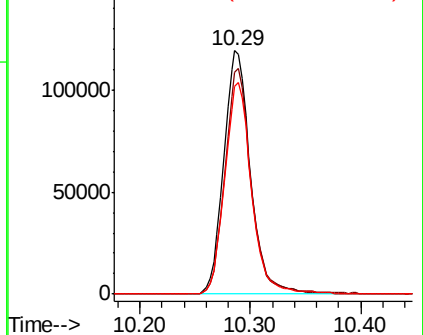
176 87.0 0.0 168.0

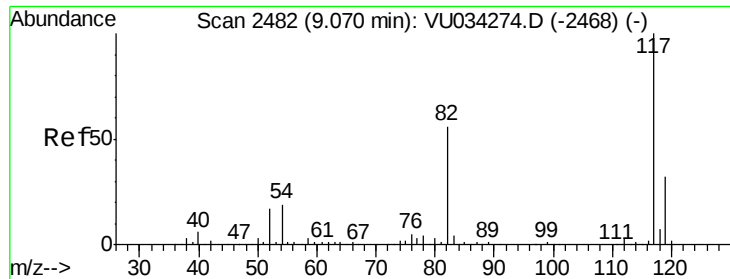


Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

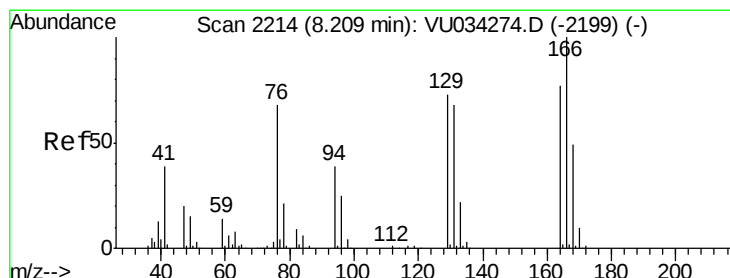
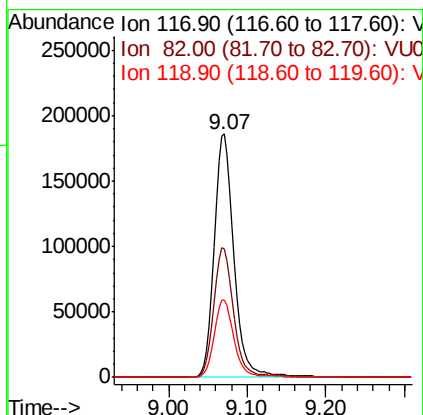
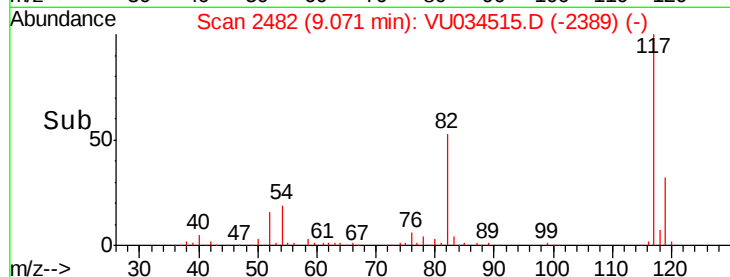
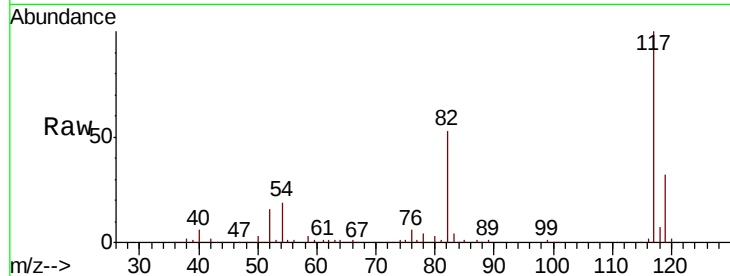




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034515.D
Acq: 12 Sep 2019 13:06

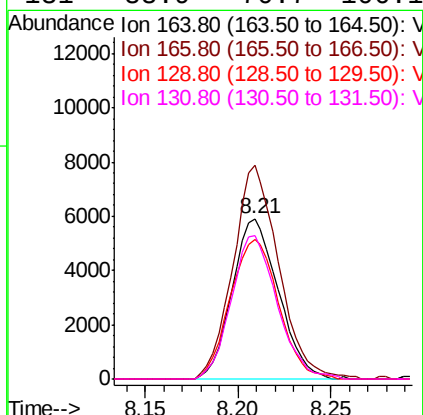
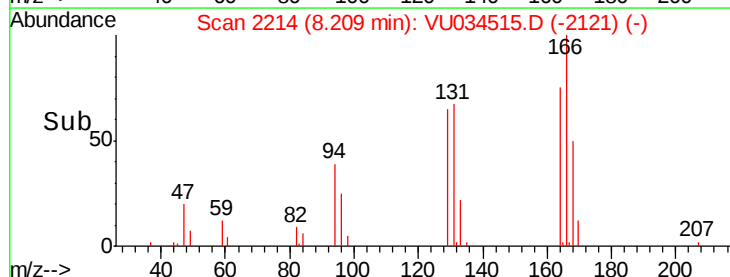
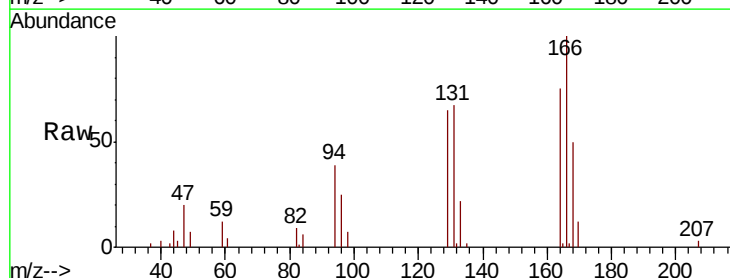
Instrument :
MSVOA_U
ClientSampleId :
CPA-CPMW02D-M27W1-090419

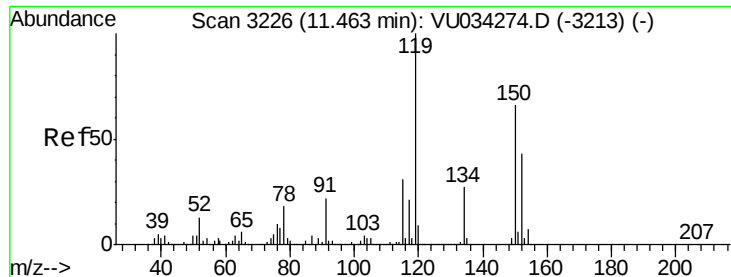
Tgt Ion:117 Resp: 321339
Ion Ratio Lower Upper
117 100
82 52.9 44.6 67.0
119 31.9 25.9 38.9



#64
Tetrachloroethene
Concen: 3.679 ug/l
RT: 8.21 min Scan# 2214
Delta R.T. 0.00 min
Lab File: VU034515.D
Acq: 12 Sep 2019 13:06

Tgt Ion:164 Resp: 10256
Ion Ratio Lower Upper
164 100
166 133.0 103.7 155.5
129 87.0 75.8 113.8
131 88.9 70.7 106.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.46 min Scan# 3226

Delta R.T. 0.00 min

Lab File: VU034515.D

Acq: 12 Sep 2019 13:06

Instrument :

MSVOA_U

ClientSampleId :

CPA-CPMW02D-M27W1-090419

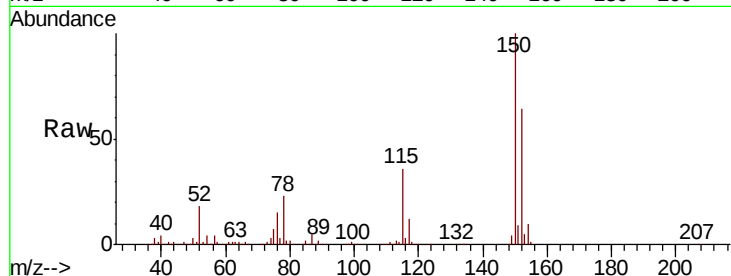
Tgt Ion:152 Resp: 186747

Ion Ratio Lower Upper

152 100

115 55.4 39.1 117.3

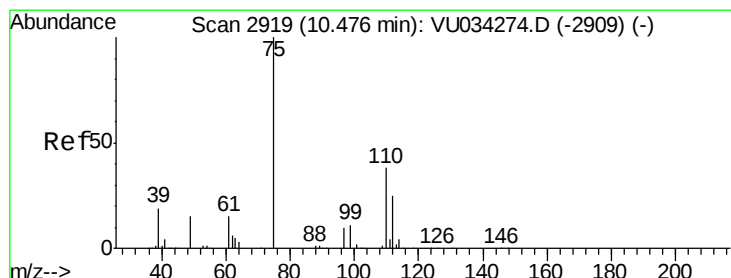
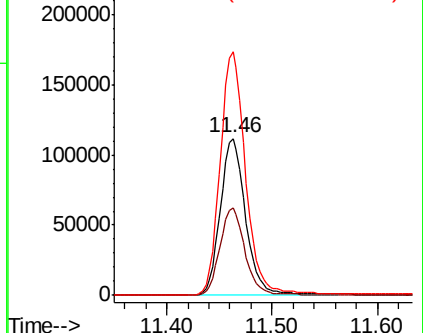
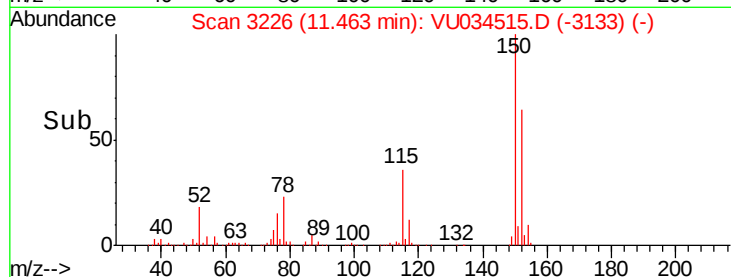
150 156.1 0.0 345.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 23.552 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.19 min

Lab File: VU034515.D

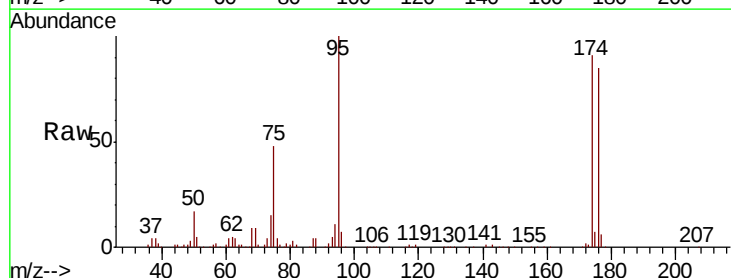
Acq: 12 Sep 2019 13:06

Tgt Ion: 75 Resp: 96008

Ion Ratio Lower Upper

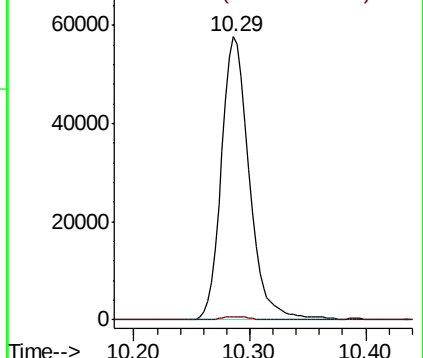
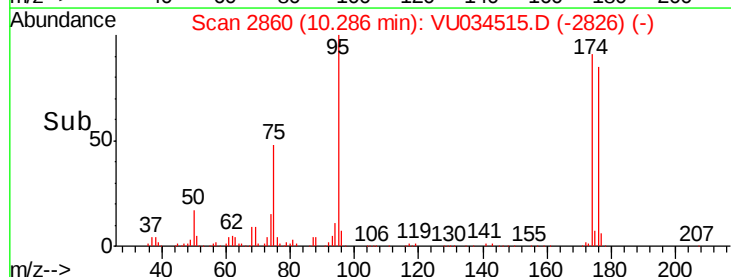
75 100

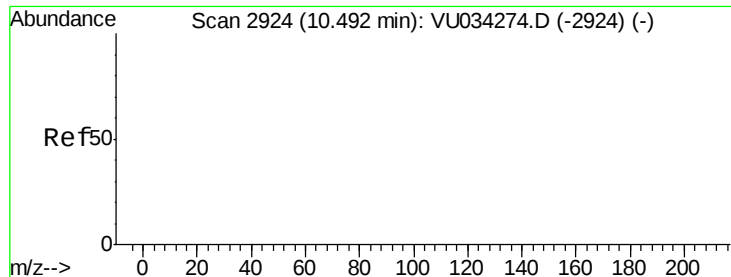
77 1.2 20.8 62.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

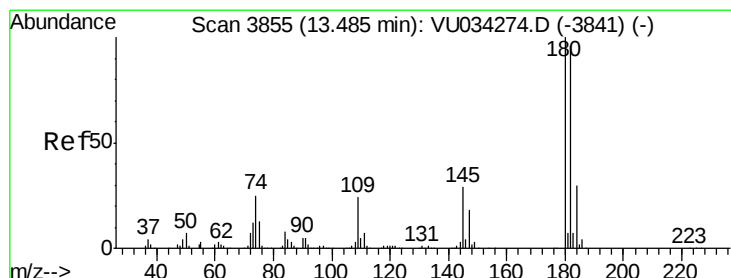
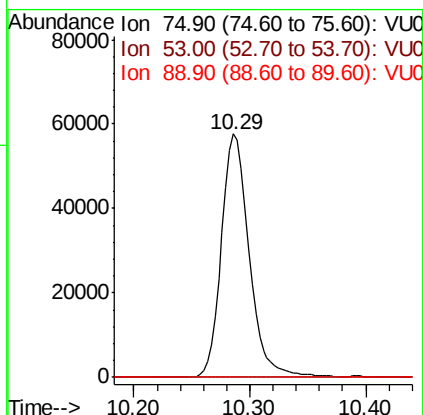
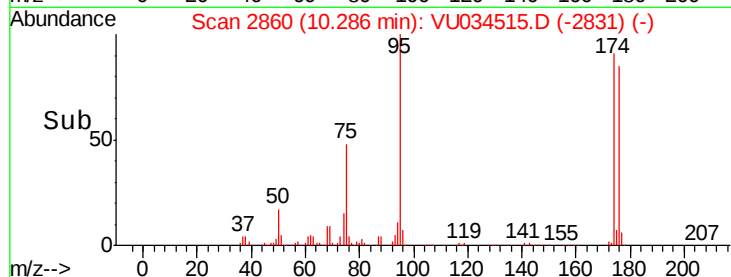
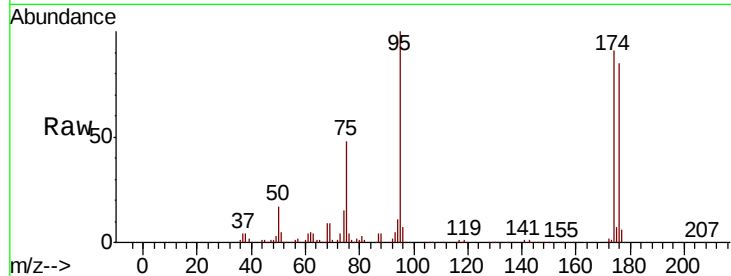




#81
 trans-1,4-Dichloro-2-butene
 Concen: 79.205 ug/l
 RT: 10.29 min Scan# 2860
 Delta R.T. -0.21 min
 Lab File: VU034515.D
 Acq: 12 Sep 2019 13:06

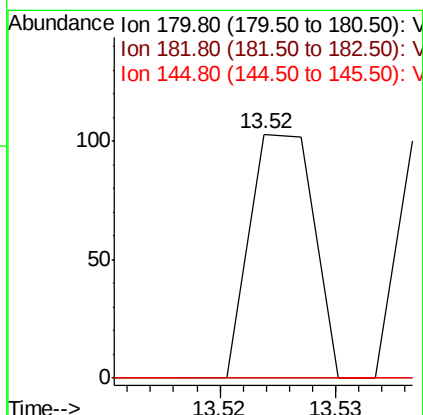
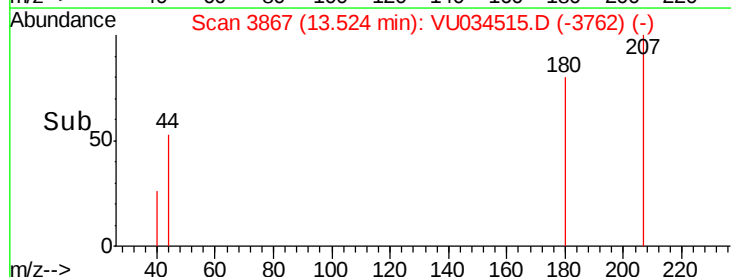
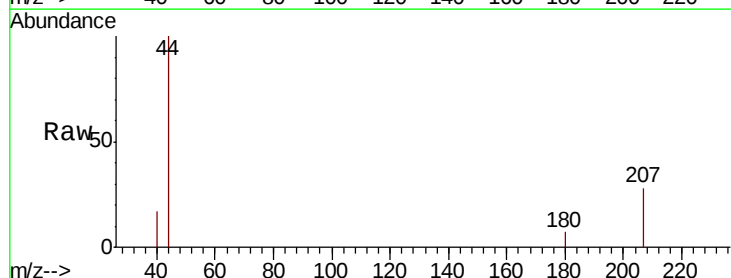
Instrument :
 MSVOA_U
 ClientSampleId :
 CPA-CPMW02D-M27W1-090419

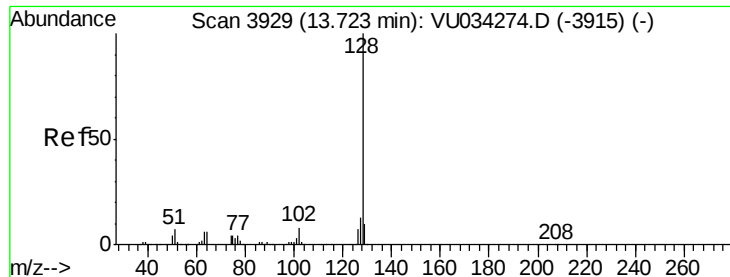
Tgt Ion: 75 Resp: 96008
 Ion Ratio Lower Upper
 75 100
 53 0.2 0.0 0.0#
 89 0.0 0.0 0.0



#93
 1,2,4-Trichlorobenzene
 Concen: 3.460 ug/l
 RT: 13.52 min Scan# 3867
 Delta R.T. 0.04 min
 Lab File: VU034515.D
 Acq: 12 Sep 2019 13:06

Tgt Ion: 180 Resp: 40
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.9 143.8#
 145 0.0 14.4 43.0#

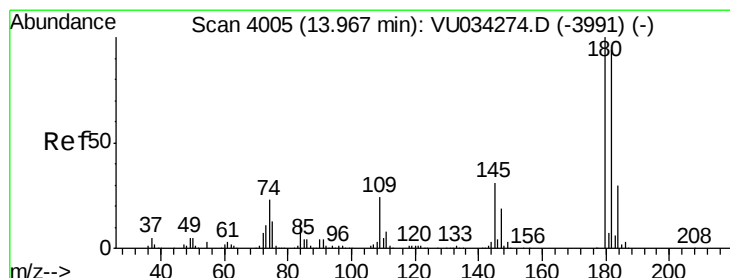
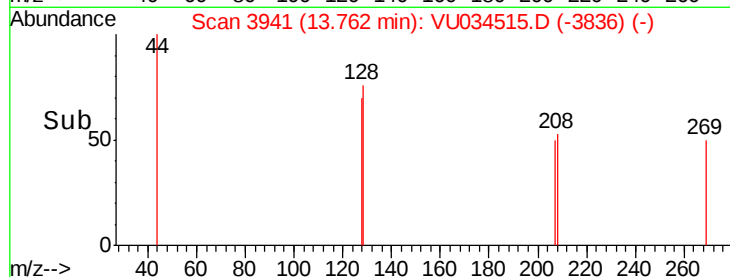
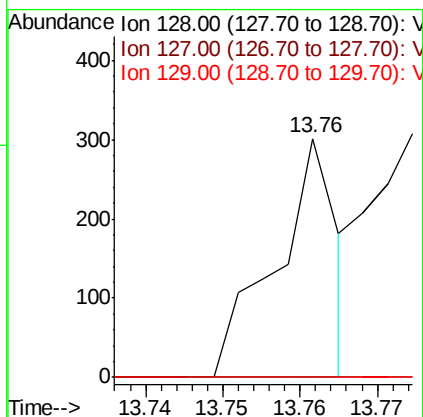
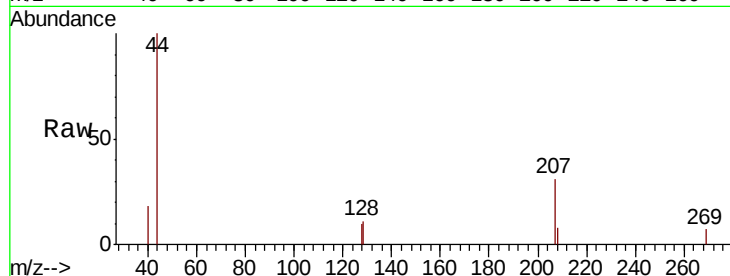




#95
Naphthalene
Concen: 3.978 ug/l
RT: 13.76 min Scan# 3941
Delta R.T. 0.04 min
Lab File: VU034515.D
Acq: 12 Sep 2019 13:06

Instrument :
MSVOA_U
ClientSampleId :
CPA-CPMW02D-M27W1-090419

Tgt Ion:128 Resp: 165
Ion Ratio Lower Upper
128 100
127 0.0 10.6 15.8#
129 0.0 8.4 12.6#



#96
1,2,3-Trichlorobenzene
Concen: 2.671 ug/l
RT: 14.00 min Scan# 4014
Delta R.T. 0.03 min
Lab File: VU034515.D
Acq: 12 Sep 2019 13:06

Tgt Ion:180 Resp: 148
Ion Ratio Lower Upper
180 100
182 0.0 48.4 145.0#
145 0.0 15.4 46.4#

