

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091219\
 Data File : VU034527.D
 Acq On : 12 Sep 2019 18:00
 Operator : JC/SP
 Sample : K4756-25
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 CPA-RB1-M27W1-090419

Quant Time: Sep 13 07:12:26 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	259377	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	391485	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	396690	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	229098	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	219609	55.96	ug/l	0.00
Spiked Amount			Recovery	=	111.92%	
35) Dibromofluoromethane	4.86	113	195806	53.75	ug/l	0.00
Spiked Amount			Recovery	=	107.50%	
50) Toluene-d8	7.55	98	713792	52.15	ug/l	0.00
Spiked Amount			Recovery	=	104.30%	
62) 4-Bromofluorobenzene	10.29	95	240812	45.57	ug/l	0.00
Spiked Amount			Recovery	=	91.14%	

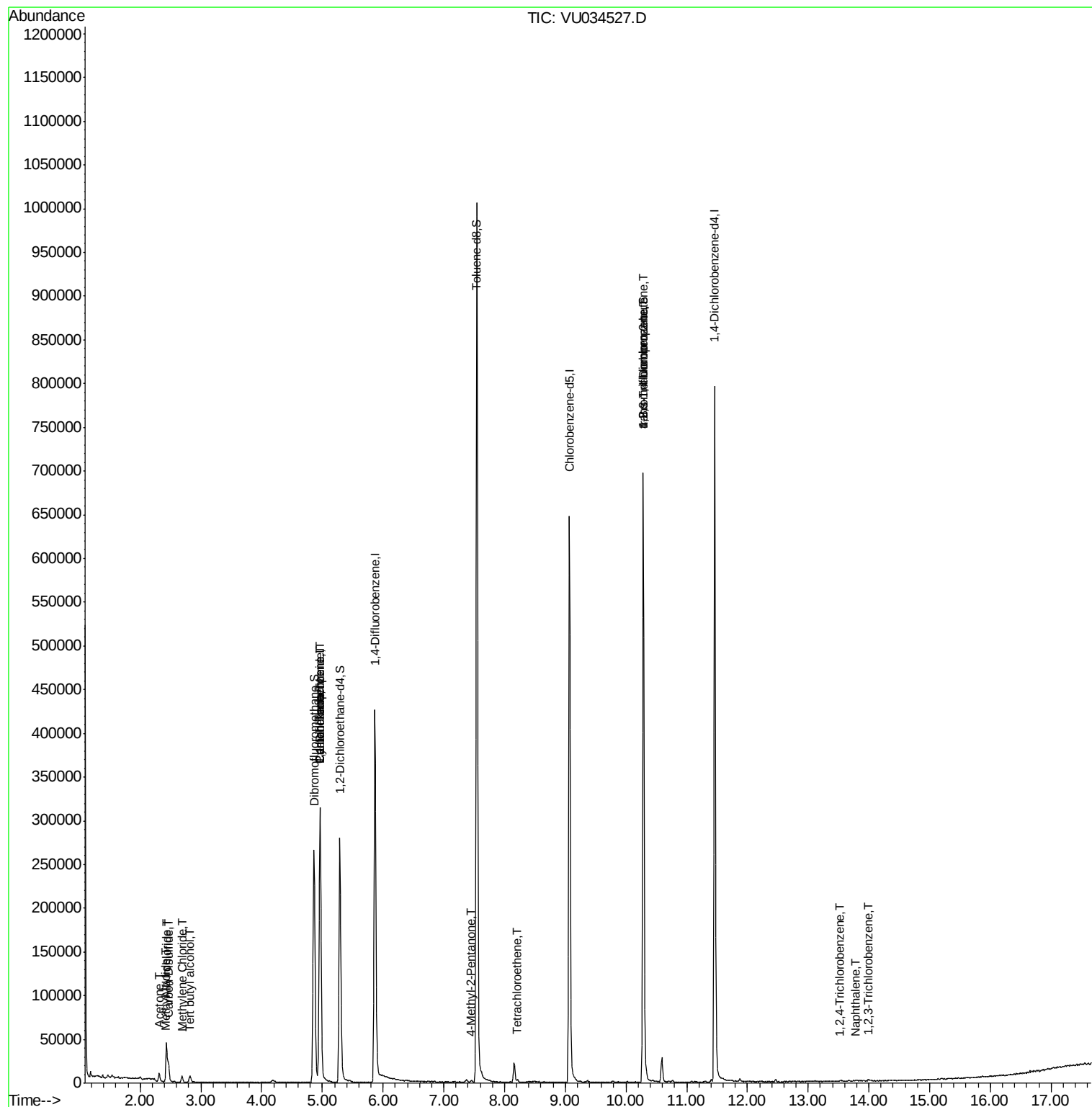
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	872	Below Cal		97
6) Chloroethane	1.68	64	107	Below Cal	#	43
10) Methyl Iodide	2.41	142	795	4.114	ug/l #	53
11) Tert butyl alcohol	2.82	59	7237	8.729	ug/l #	87
14) Allyl chloride	2.43	41	4714	0.874	ug/l #	58
16) Acetone	2.31	43	11122	5.476	ug/l #	87
17) Carbon Disulfide	2.47	76	21342	3.365	ug/l	100
20) Methylene Chloride	2.69	84	3178	0.560	ug/l	94
31) Cyclohexane	4.96	56	4407	0.959	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	16949	3.992	ug/l #	48
38) Carbon Tetrachloride	4.96	117	22638	4.994	ug/l #	15
51) 4-Methyl-2-Pentanone	7.45	43	1423	0.263	ug/l	100
64) Tetrachloroethene	8.21	164	718	0.209	ug/l #	75
76) 1,2,3-Trichloropropane	10.29	75	113595	22.715	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	113595	76.390	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.51	180	153	3.478	ug/l #	63
95) Naphthalene	13.77	128	1519	4.058	ug/l #	82
96) 1,2,3-Trichlorobenzene	14.00	180	760	2.776	ug/l #	79

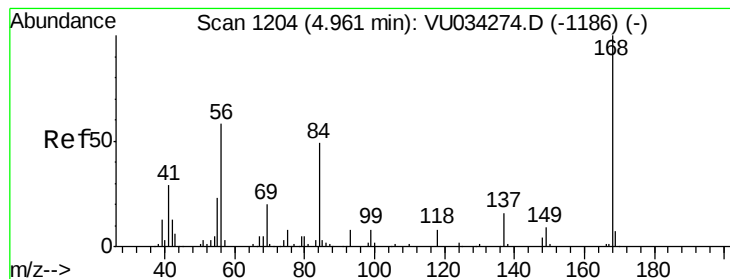
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. 0.00 min

Lab File: VU034527.D

Acq: 12 Sep 2019 18:00

Instrument :

MSVOA_U

ClientSampleId :

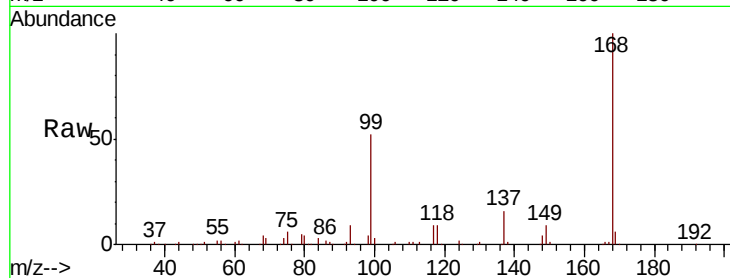
CPA-RB1-M27W1-090419

Tgt Ion:168 Resp: 259377

Ion Ratio Lower Upper

168 100

99 52.0 41.6 62.4



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

Ion 98.90 (98.60 to 99.60): VU034274.D (-1186) (-)

4.96

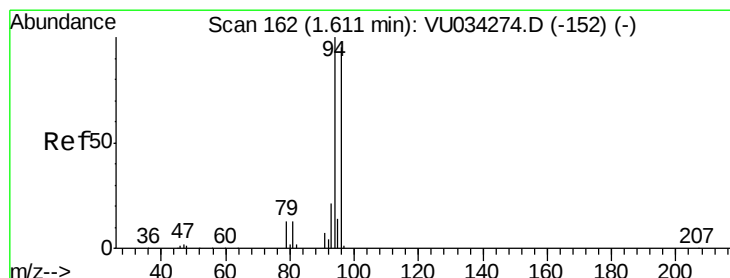
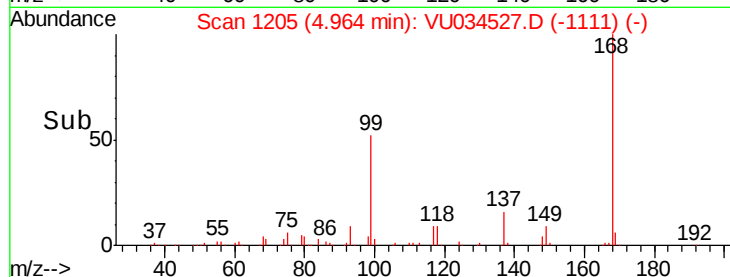
100000

50000

0

Time-->

4.90 5.00 5.10



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 170

Delta R.T. 0.03 min

Lab File: VU034527.D

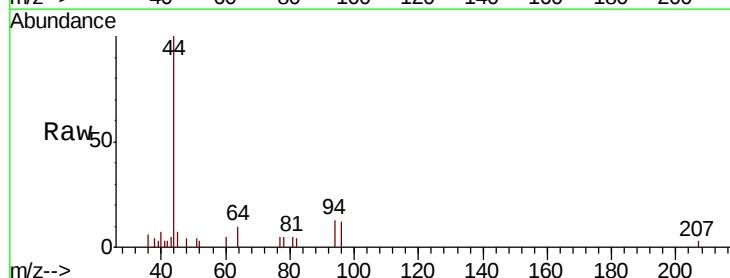
Acq: 12 Sep 2019 18:00

Tgt Ion: 94 Resp: 872

Ion Ratio Lower Upper

94 100

96 97.2 75.7 113.5



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

Ion 95.90 (95.60 to 96.60): VU034274.D (-152) (-)

1.64

500

400

300

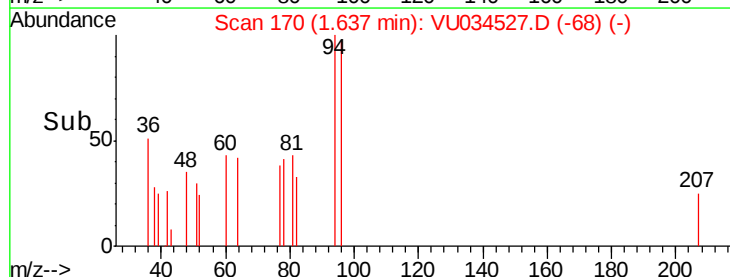
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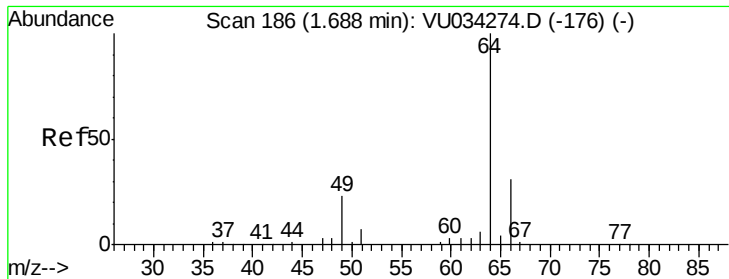
100

0

Time-->

1.60 1.65





#6

Chloroethane

Concen: Below Cal

RT: 1.68 min Scan# 184

Delta R.T. -0.01 min

Lab File: VU034527.D

Acq: 12 Sep 2019 18:00

Instrument :

MSVOA_U

ClientSampleId :

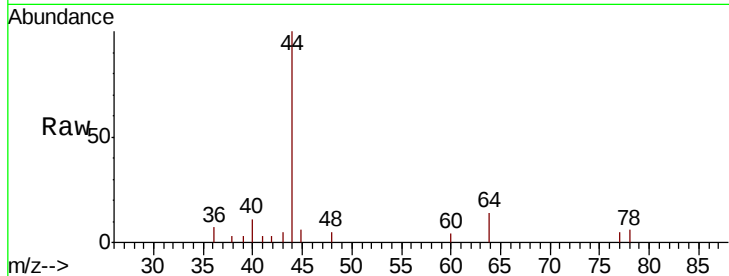
CPA-RB1-M27W1-090419

Tgt Ion: 64 Resp: 107

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0

1.68

400

300

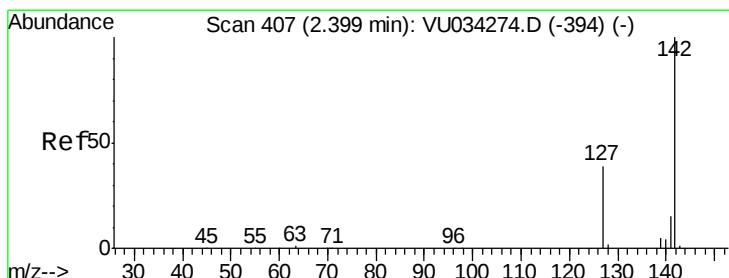
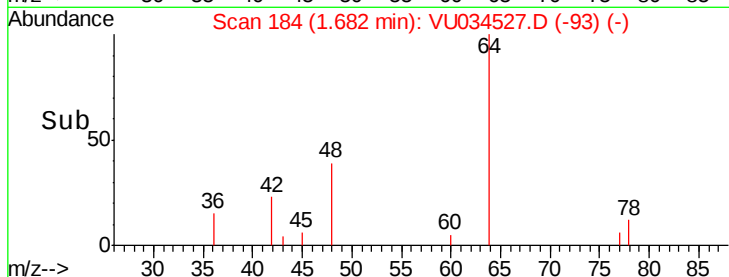
200

100

0

1.67 1.68 1.69

Time-->



#10

Methyl Iodide

Concen: 4.114 ug/l

RT: 2.41 min Scan# 409

Delta R.T. 0.01 min

Lab File: VU034527.D

Acq: 12 Sep 2019 18:00

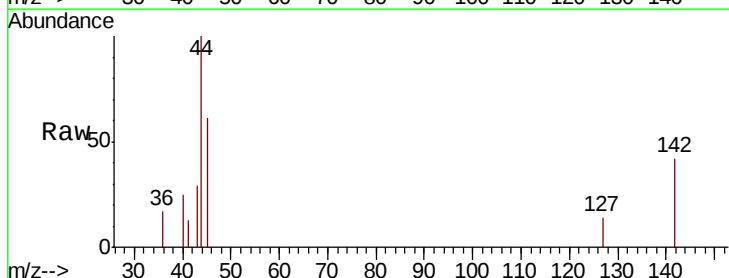
Tgt Ion: 142 Resp: 795

Ion Ratio Lower Upper

142 100

127 8.6 32.1 48.1#

141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

2.41

400

300

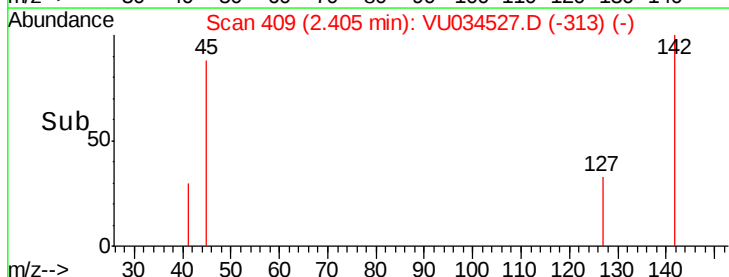
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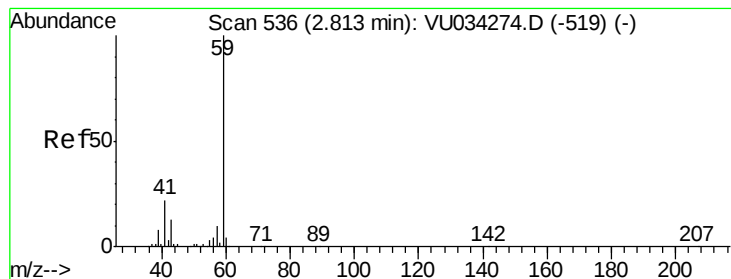
100

0

2.40 2.45

Time-->





#11

Tert butyl alcohol

Concen: 8.729 ug/l

RT: 2.82 min Scan# 538

Delta R.T. 0.01 min

Lab File: VU034527.D

Acq: 12 Sep 2019 18:00

Instrument :

MSVOA_U

ClientSampleId :

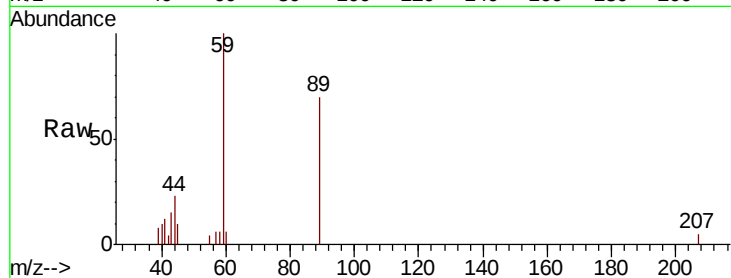
CPA-RB1-M27W1-090419

Tgt Ion: 59 Resp: 7237

Ion Ratio Lower Upper

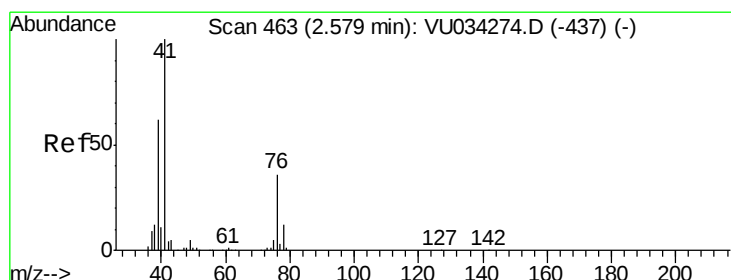
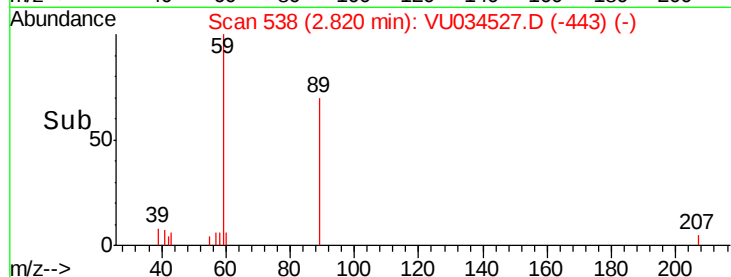
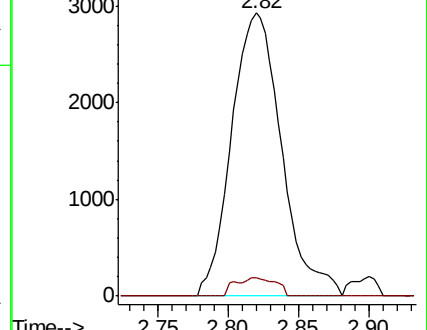
59 100

57 5.3 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VU034527.D (-519) (-)

Ion 57.00 (56.70 to 57.70): VU034527.D (-519) (-)



#14

Allyl chloride

Concen: 0.874 ug/l

RT: 2.43 min Scan# 417

Delta R.T. -0.15 min

Lab File: VU034527.D

Acq: 12 Sep 2019 18:00

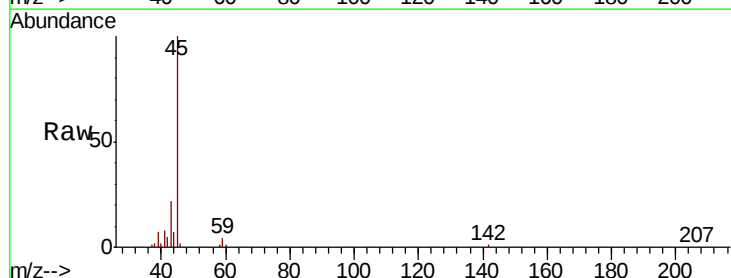
Tgt Ion: 41 Resp: 4714

Ion Ratio Lower Upper

41 100

39 77.0 43.5 65.3#

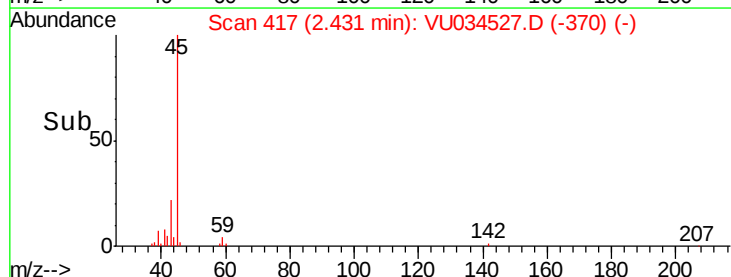
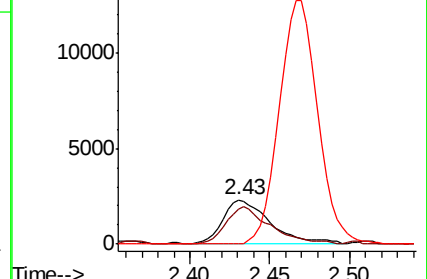
76 0.0 27.0 40.6#

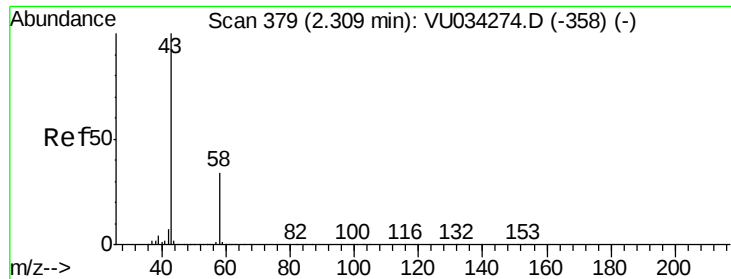


Abundance Ion 41.00 (40.70 to 41.70): VU034527.D (-370) (-)

Ion 39.00 (38.70 to 39.70): VU034527.D (-370) (-)

Ion 75.90 (75.60 to 76.60): VU034527.D (-370) (-)





#16

Acetone

Concen: 5.476 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034527.D

Acq: 12 Sep 2019 18:00

Instrument :

MSVOA_U

ClientSampleId :

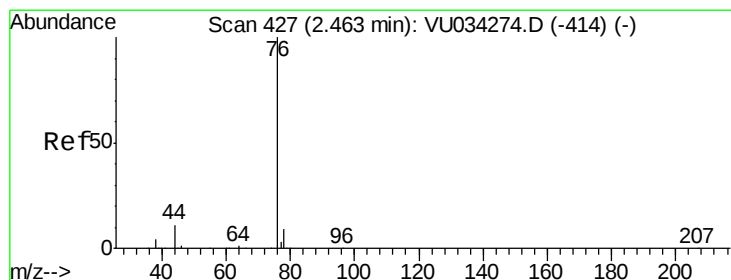
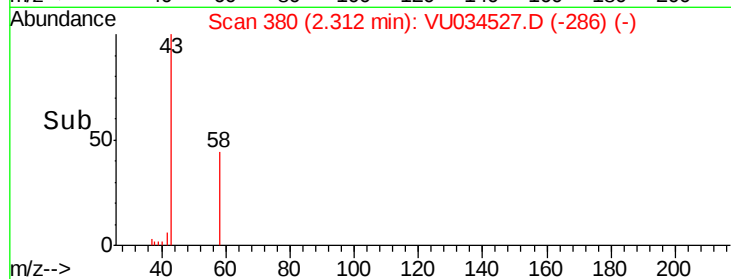
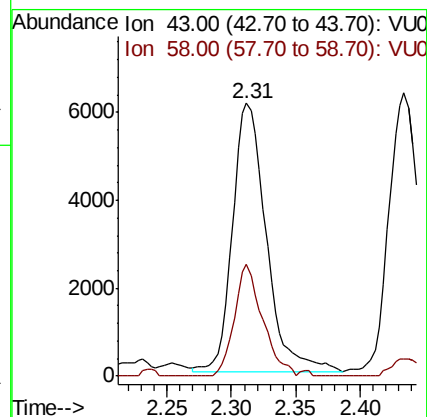
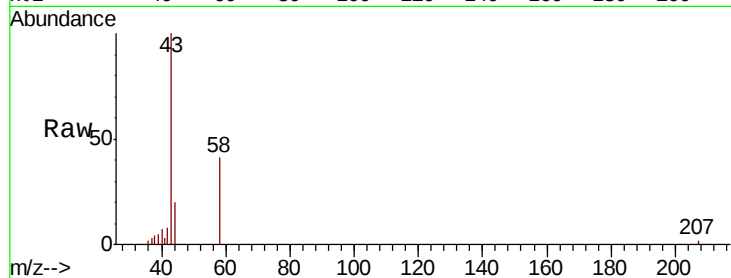
CPA-RB1-M27W1-090419

Tgt Ion: 43 Resp: 11122

Ion Ratio Lower Upper

43 100

58 41.7 27.6 41.4#



#17

Carbon Disulfide

Concen: 3.365 ug/l

RT: 2.47 min Scan# 428

Delta R.T. 0.00 min

Lab File: VU034527.D

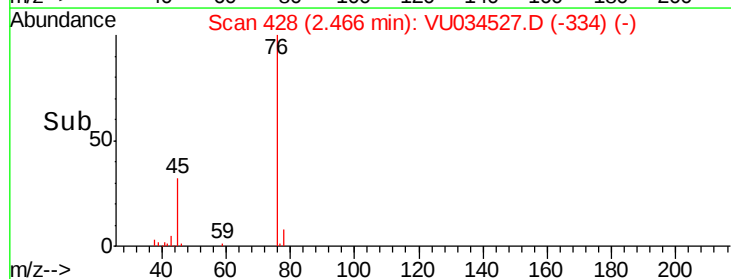
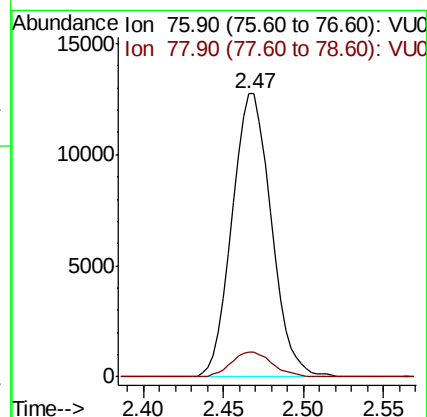
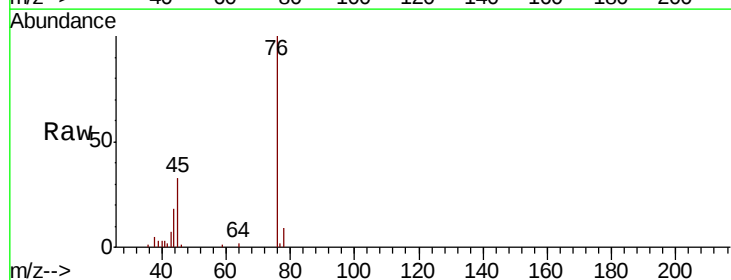
Acq: 12 Sep 2019 18:00

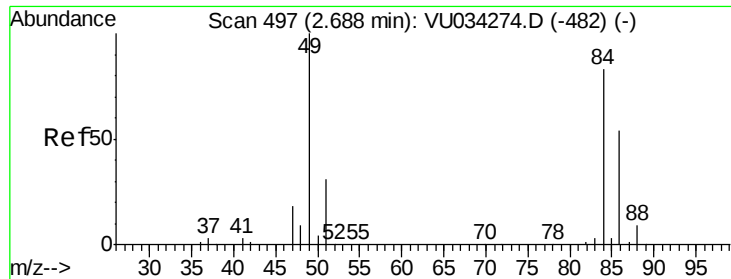
Tgt Ion: 76 Resp: 21342

Ion Ratio Lower Upper

76 100

78 8.9 7.2 10.8



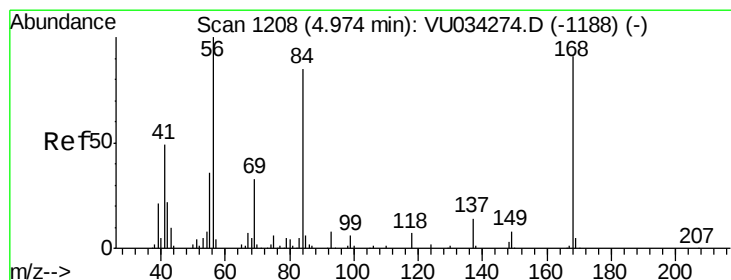
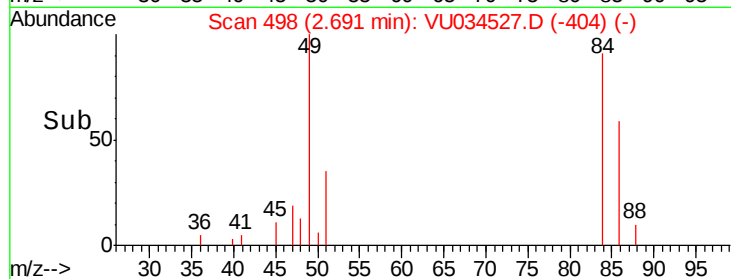
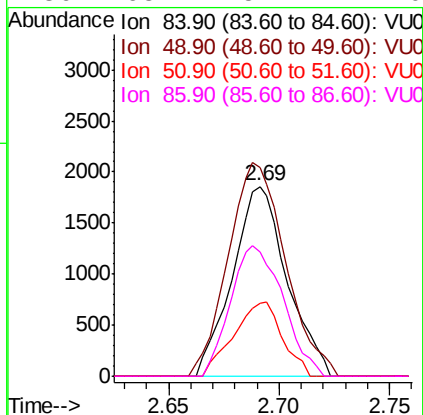
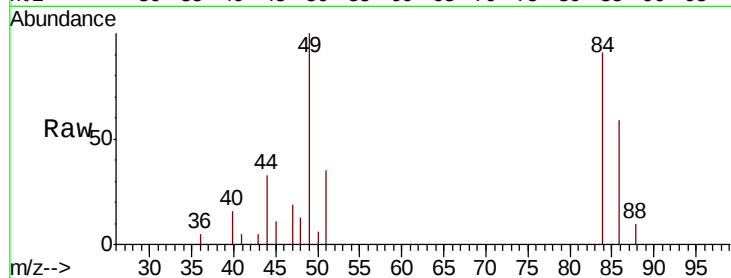


#20
Methylene Chloride
Concen: 0.560 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.00 min
Lab File: VU034527.D
Acq: 12 Sep 2019 18:00

Instrument :
MSVOA_U
ClientSampleId :
CPA-RB1-M27W1-090419

Tgt Ion: 84 Resp: 3178

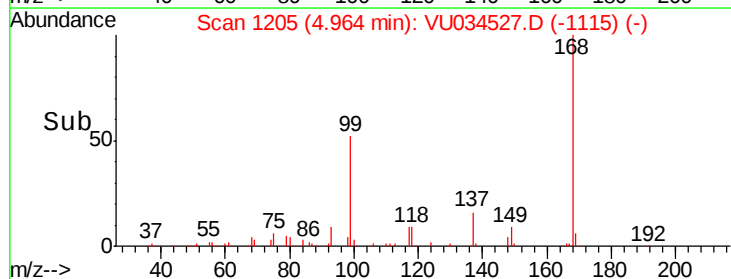
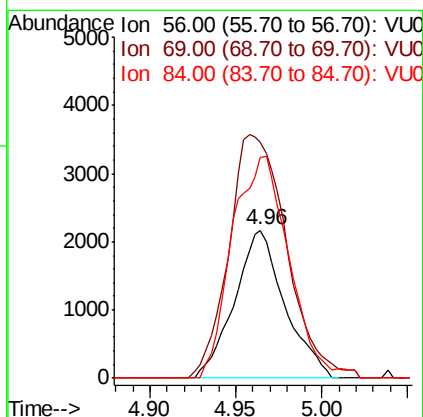
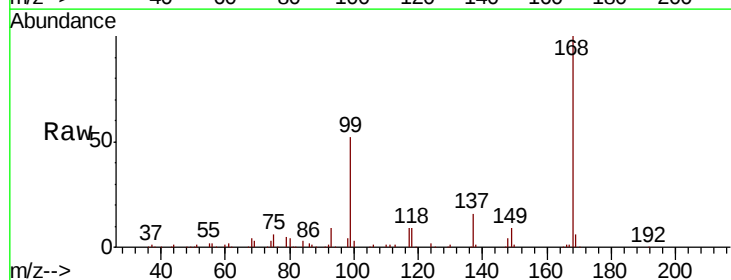
Ion	Ratio	Lower	Upper
84	100		
49	109.6	96.0	144.0
51	38.4	30.0	45.0
86	65.2	51.4	77.0

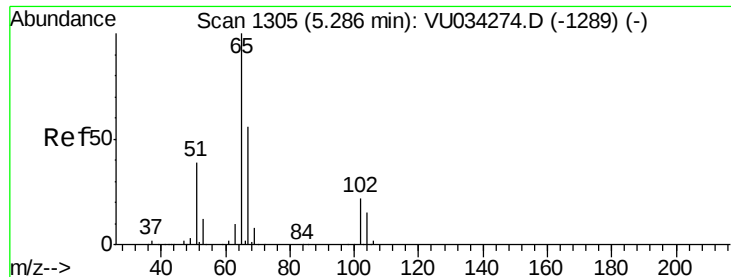


#31
Cyclohexane
Concen: 0.959 ug/l
RT: 4.96 min Scan# 1205
Delta R.T. -0.01 min
Lab File: VU034527.D
Acq: 12 Sep 2019 18:00

Tgt Ion: 56 Resp: 4407

Ion	Ratio	Lower	Upper
56	100		
69	159.5	26.7	40.1#
84	148.5	68.2	102.4#

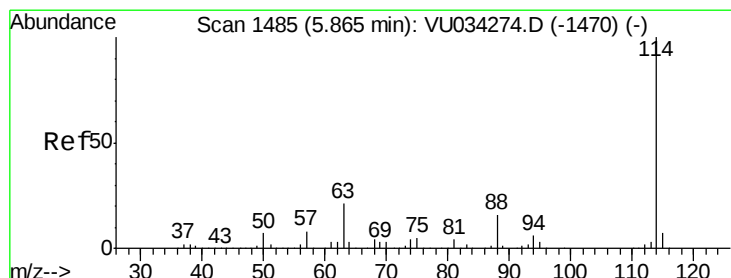
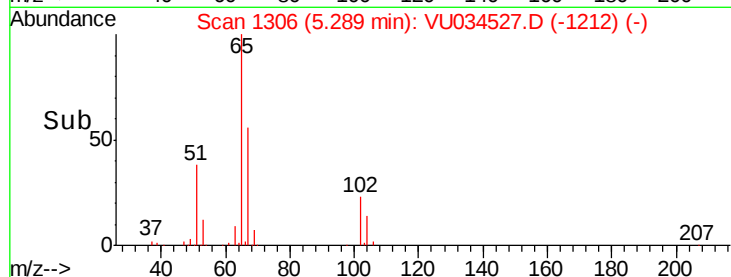
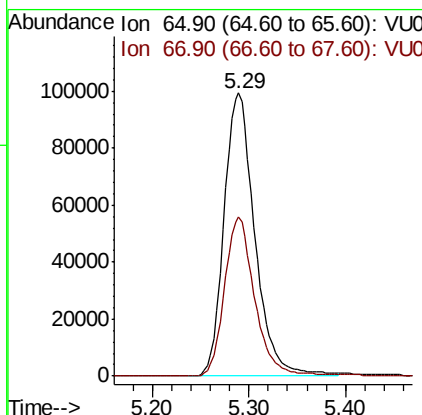
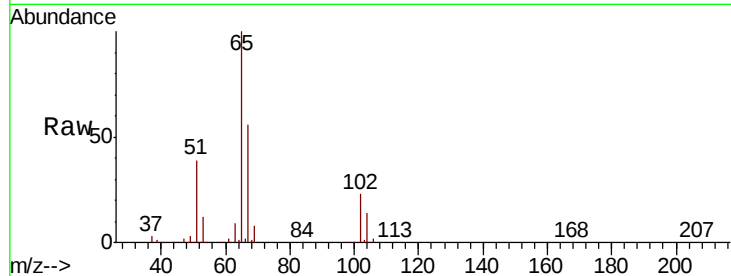




#33
 1,2-Dichloroethane-d4
 Concen: 55.959 ug/l
 RT: 5.29 min Scan# 1306
 Delta R.T. 0.00 min
 Lab File: VU034527.D
 Acq: 12 Sep 2019 18:00

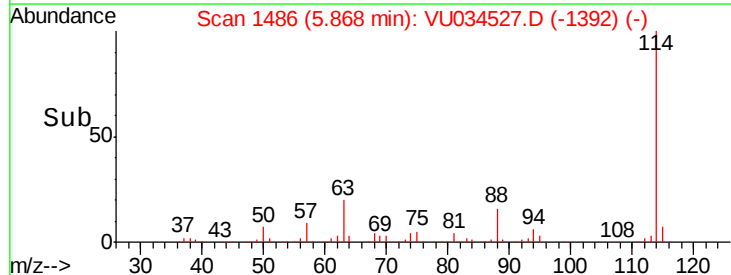
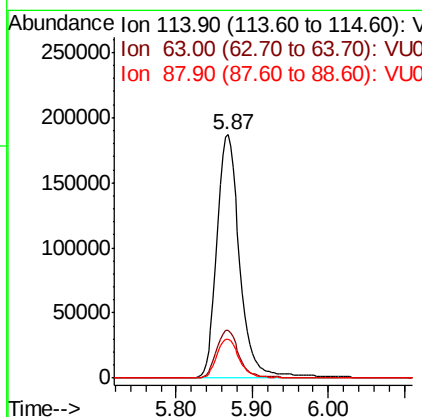
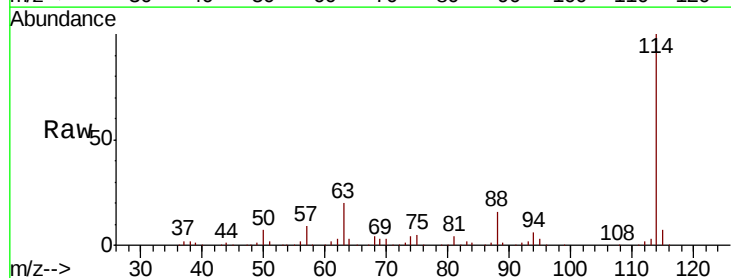
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 ClientSampleId :
 CPA-RB1-M27W1-090419

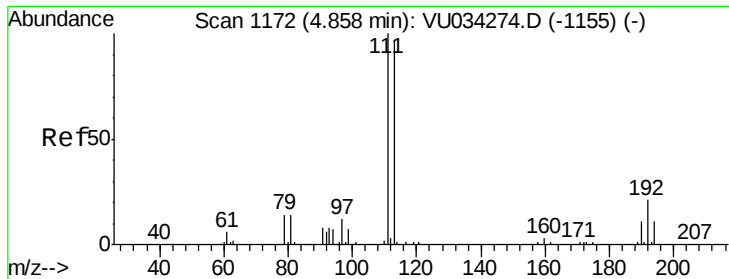
Tgt Ion: 65 Resp: 219609
 Ion Ratio Lower Upper
 65 100
 67 55.0 0.0 112.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034527.D
 Acq: 12 Sep 2019 18:00

Tgt Ion: 114 Resp: 391485
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 42.4
 88 16.1 0.0 32.4

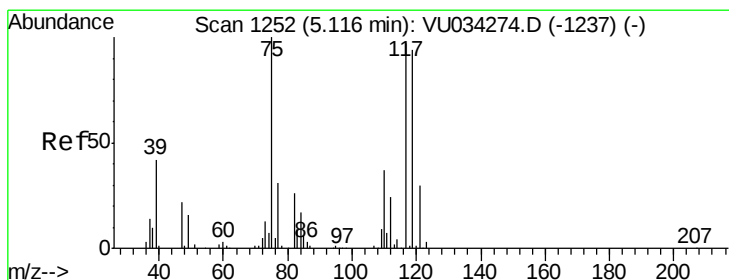
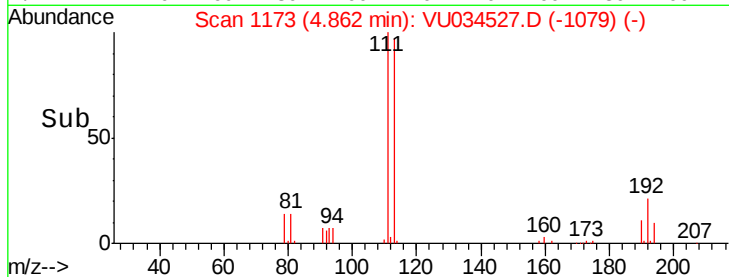
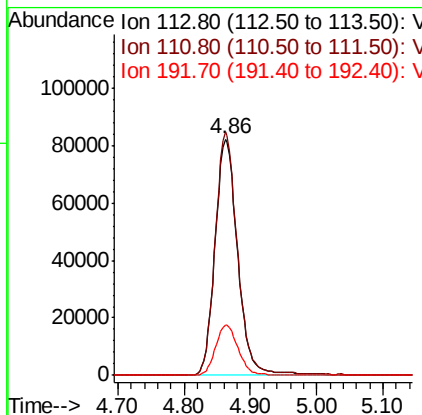
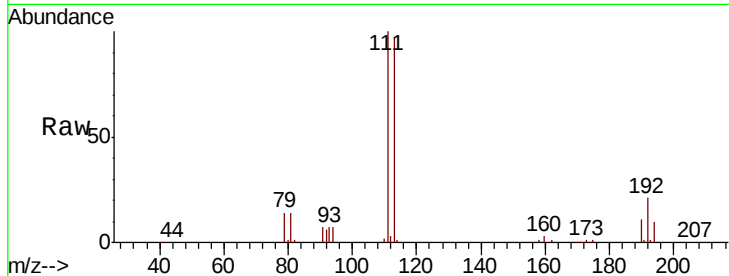




#35
 Dibromofluoromethane
 Concen: 53.752 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034527.D
 Acq: 12 Sep 2019 18:00

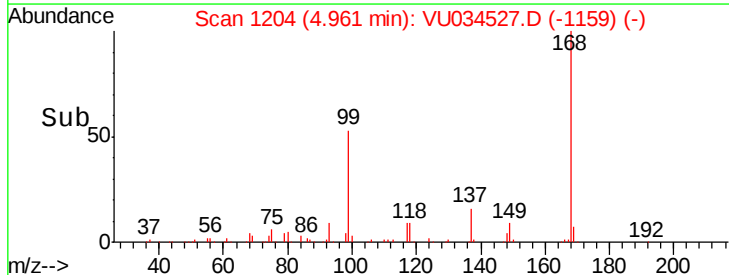
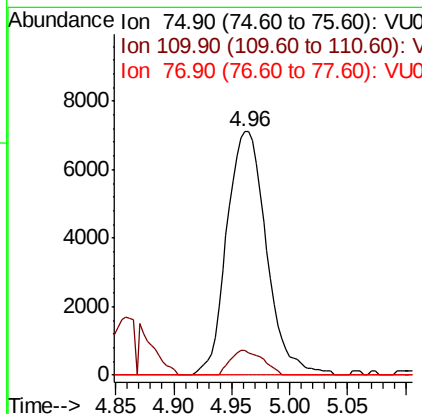
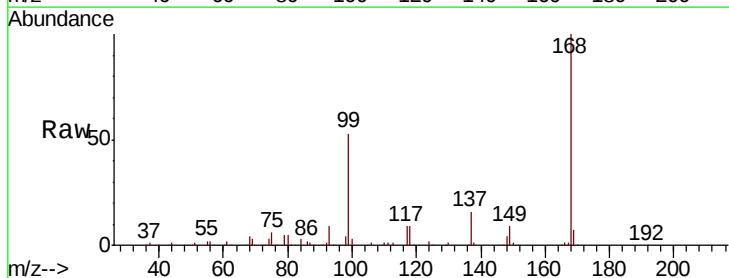
Instrument :
 MSVOA_U
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 CPA-RB1-M27W1-090419

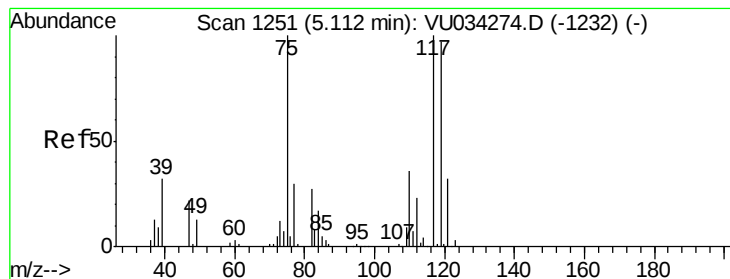
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.3	81.5	122.3
192	21.2	17.8	26.8



#36
 1,1-Dichloropropene
 Concen: 3.992 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034527.D
 Acq: 12 Sep 2019 18:00

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	18.3	54.9#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 4.994 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.15 min

Lab File: VU034527.D

Acq: 12 Sep 2019 18:00

Instrument :

MSVOA_U

ClientSampleId :

CPA-RB1-M27W1-090419

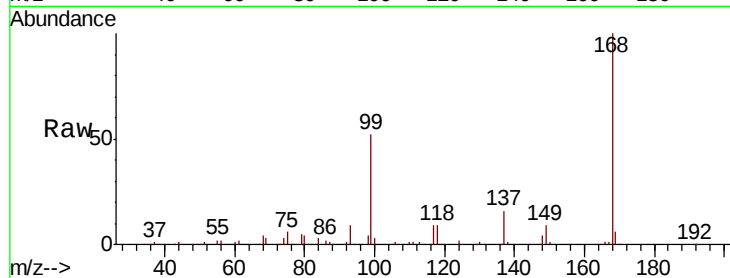
Tgt Ion:117 Resp: 22638

Ion Ratio Lower Upper

117 100

119 5.1 77.8 116.6#

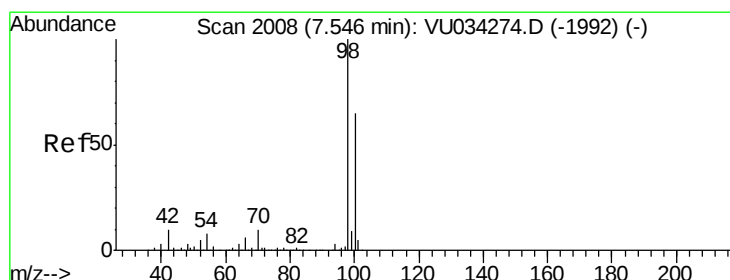
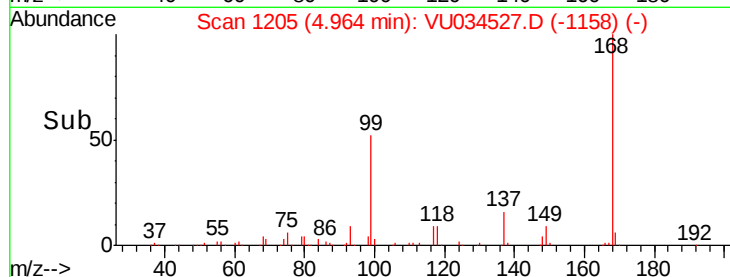
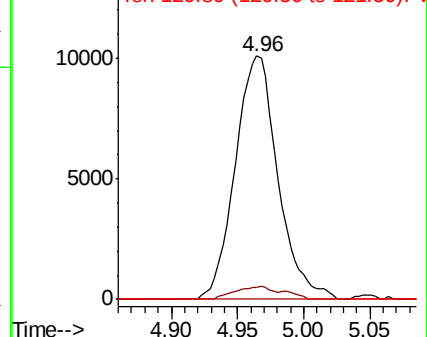
121 0.0 25.2 37.8#



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: 52.155 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. -0.00 min

Lab File: VU034527.D

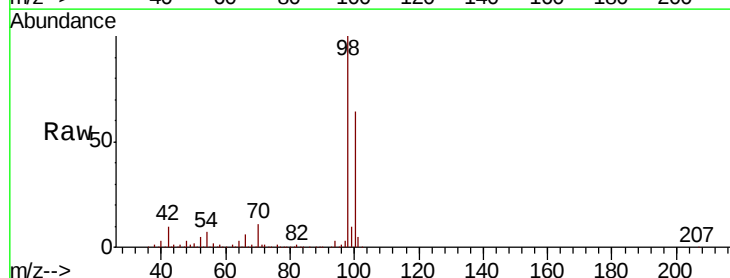
Acq: 12 Sep 2019 18:00

Tgt Ion: 98 Resp: 713792

Ion Ratio Lower Upper

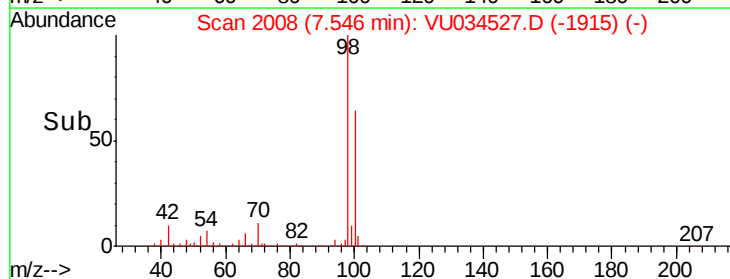
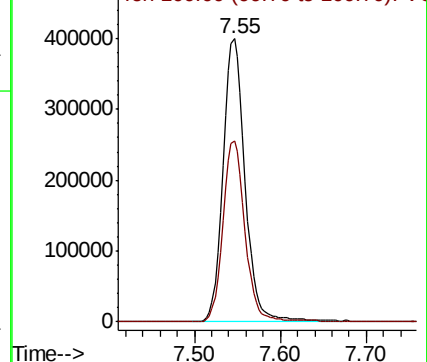
98 100

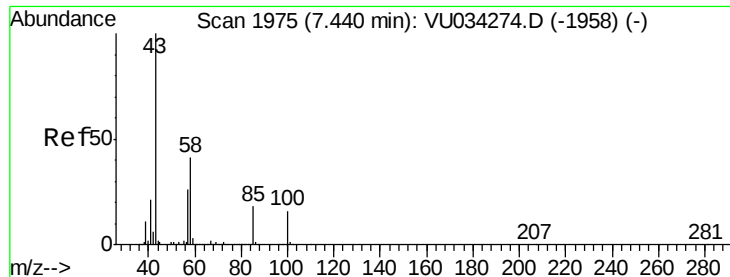
100 64.4 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU

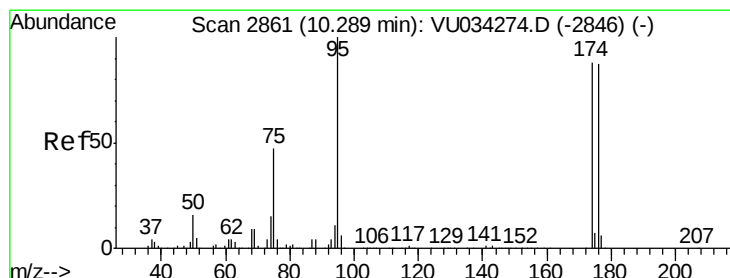
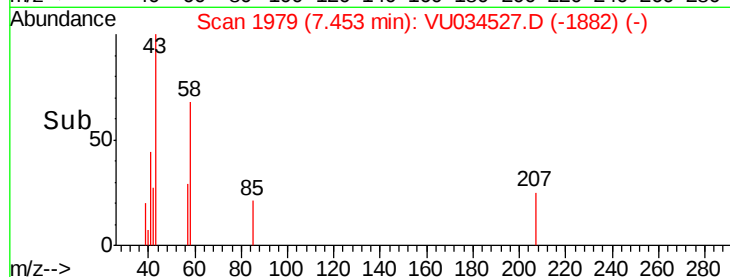
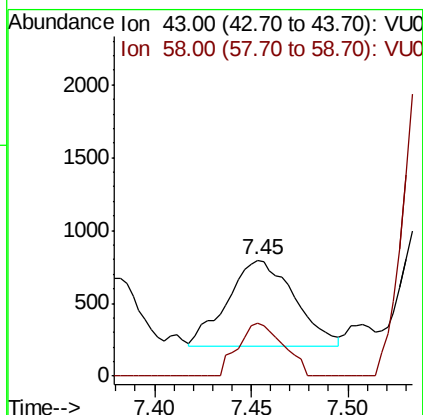
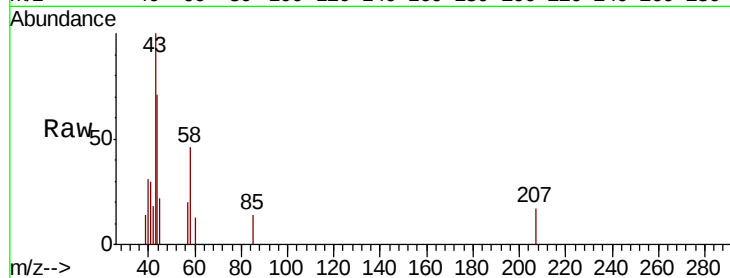




#51
 4-Methyl-2-Pentanone
 Concen: 0.263 ug/l
 RT: 7.45 min Scan# 1979
 Delta R.T. 0.01 min
 Lab File: VU034527.D
 Acq: 12 Sep 2019 18:00

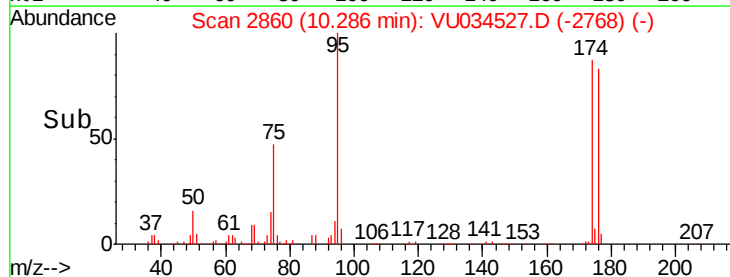
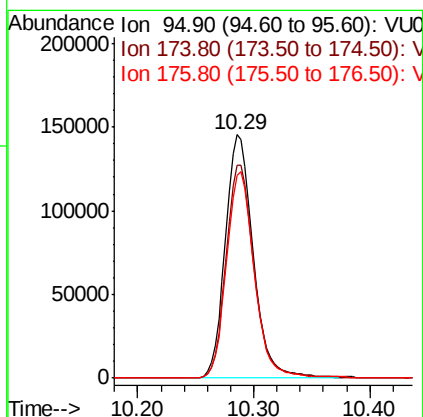
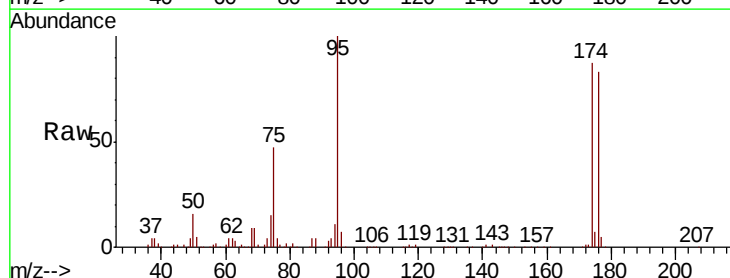
Instrument :
 MSVOA_U
 ClientSampleId :
 CPA-RB1-M27W1-090419

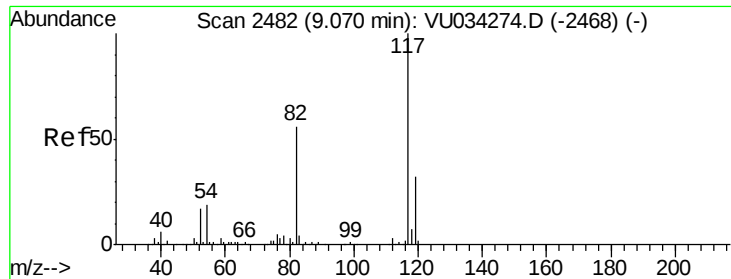
Tgt Ion: 43 Resp: 1423
 Ion Ratio Lower Upper
 43 100
 58 41.3 33.0 49.4



#62
 4-Bromofluorobenzene
 Concen: 45.573 ug/l
 RT: 10.29 min Scan# 2860
 Delta R.T. -0.00 min
 Lab File: VU034527.D
 Acq: 12 Sep 2019 18:00

Tgt Ion: 95 Resp: 240812
 Ion Ratio Lower Upper
 95 100
 174 89.0 0.0 175.2
 176 84.6 0.0 168.0

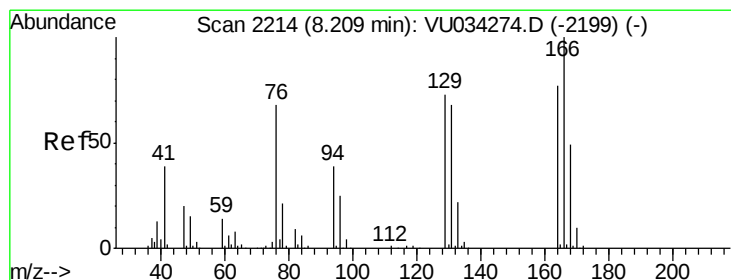
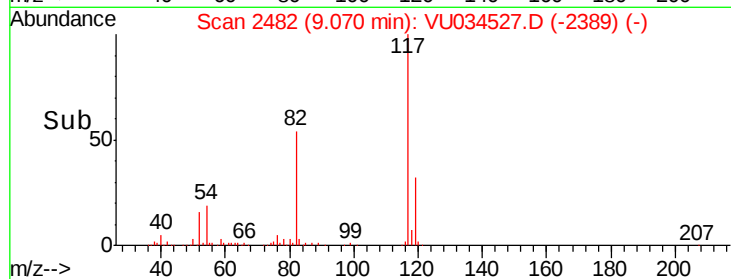
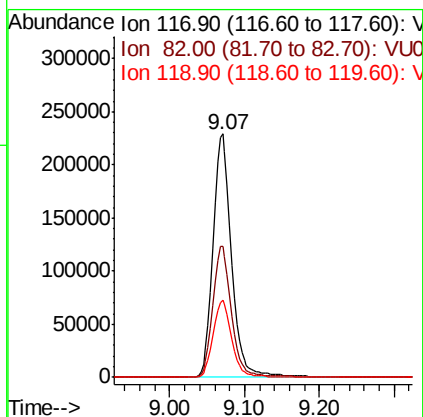
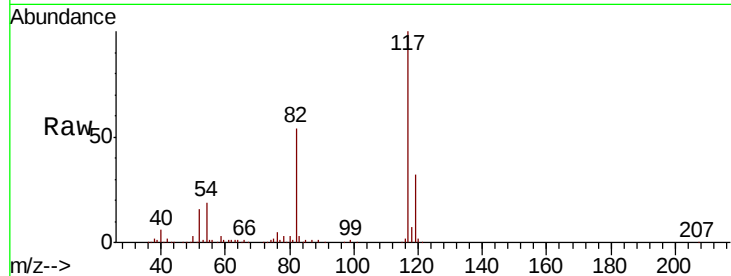




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. -0.00 min
Lab File: VU034527.D
Acq: 12 Sep 2019 18:00

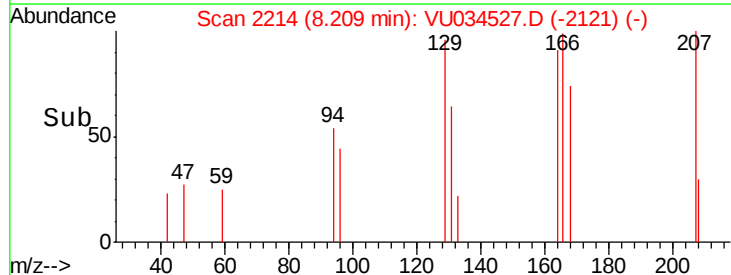
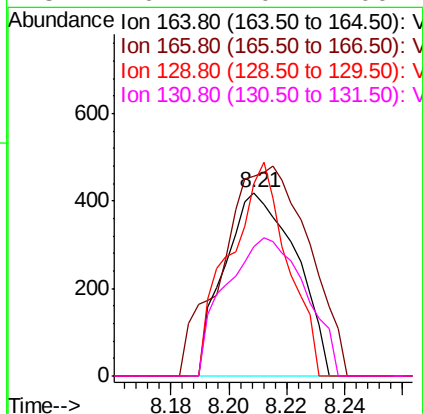
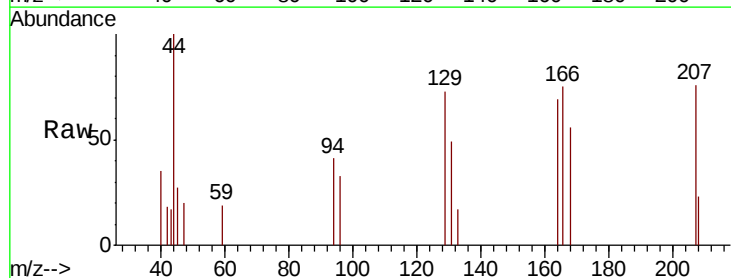
Instrument :
MSVOA_U
ClientSampleId :
CPA-RB1-M27W1-090419

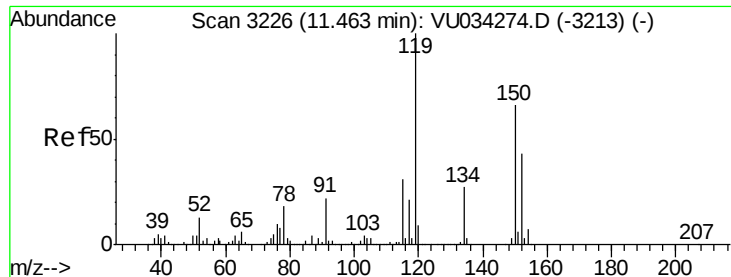
Tgt Ion:117 Resp: 396690
Ion Ratio Lower Upper
117 100
82 53.8 44.6 67.0
119 31.8 25.9 38.9



#64
Tetrachloroethene
Concen: 0.209 ug/l
RT: 8.21 min Scan# 2214
Delta R.T. -0.00 min
Lab File: VU034527.D
Acq: 12 Sep 2019 18:00

Tgt Ion:164 Resp: 718
Ion Ratio Lower Upper
164 100
166 83.1 103.7 155.5#
129 104.8 75.8 113.8
131 70.2 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: VU034527.D

Acq: 12 Sep 2019 18:00

Instrument :

MSVOA_U

ClientSampleId :

CPA-RB1-M27W1-090419

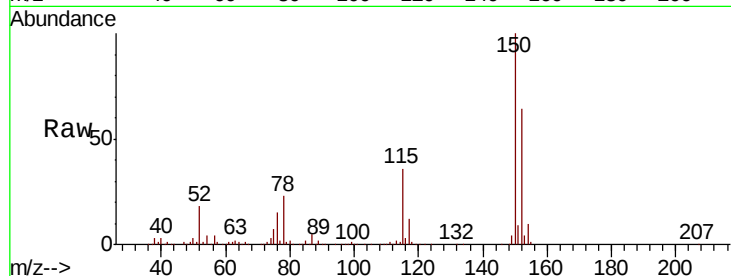
Tgt Ion:152 Resp: 229098

Ion Ratio Lower Upper

152 100

115 55.2 39.1 117.3

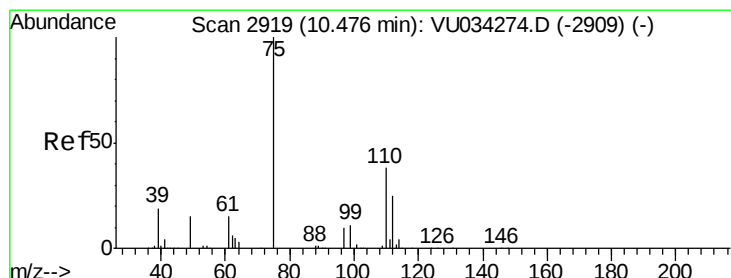
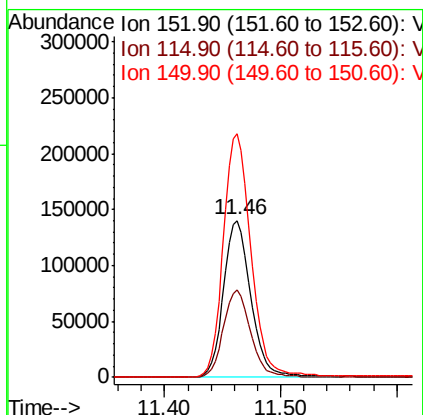
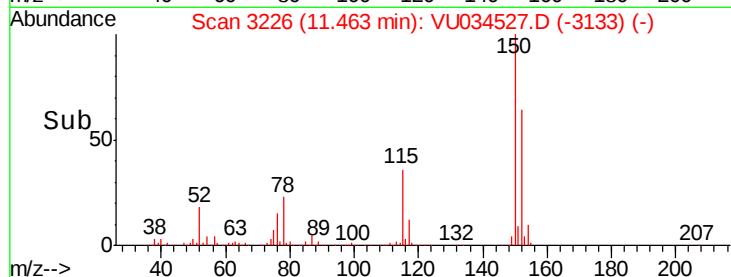
150 157.2 0.0 345.4



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: 22.715 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.19 min

Lab File: VU034527.D

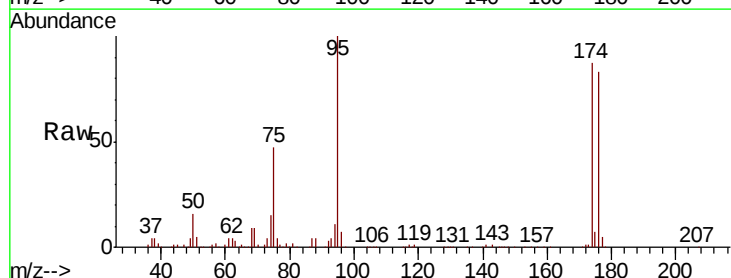
Acq: 12 Sep 2019 18:00

Tgt Ion: 75 Resp: 113595

Ion Ratio Lower Upper

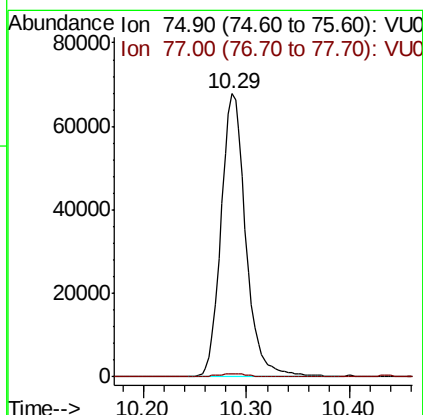
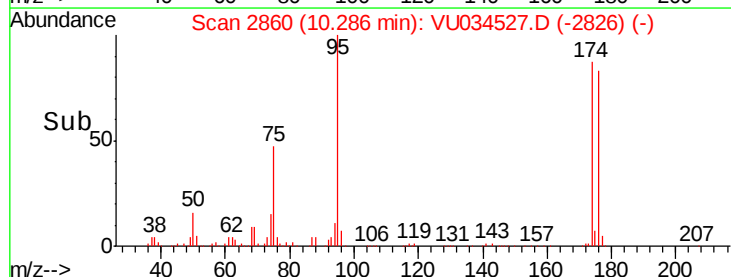
75 100

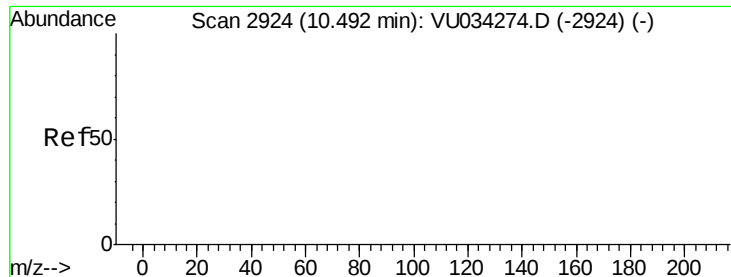
77 1.3 20.8 62.2#



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: 76.390 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.21 min

Lab File: VU034527.D

Acq: 12 Sep 2019 18:00

Instrument :

MSVOA_U

ClientSampleId :

CPA-RB1-M27W1-090419

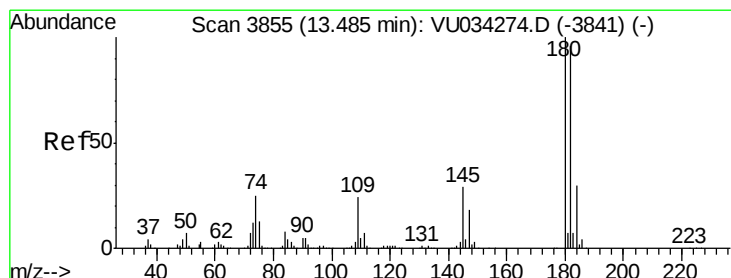
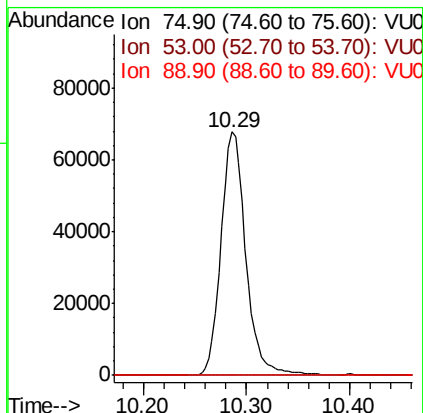
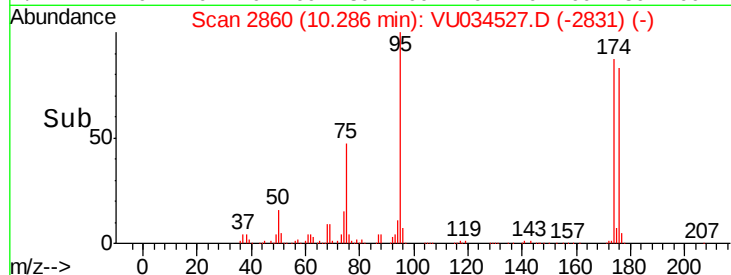
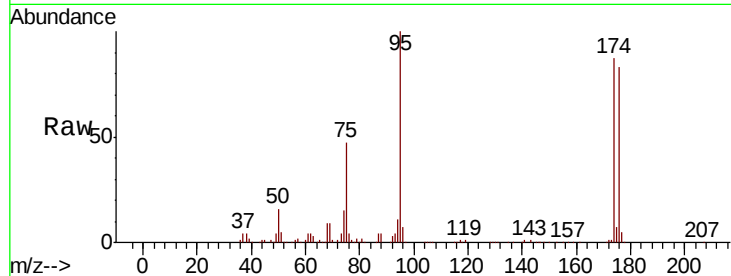
Tgt Ion: 75 Resp: 113595

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: 3.478 ug/l

RT: 13.51 min Scan# 3863

Delta R.T. 0.03 min

Lab File: VU034527.D

Acq: 12 Sep 2019 18:00

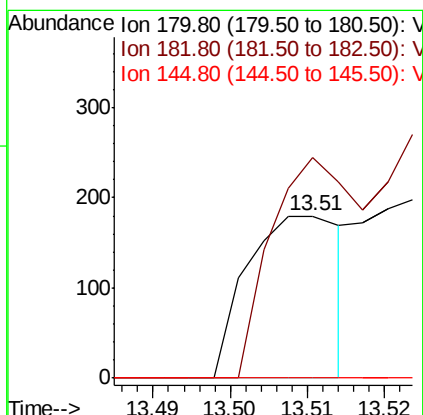
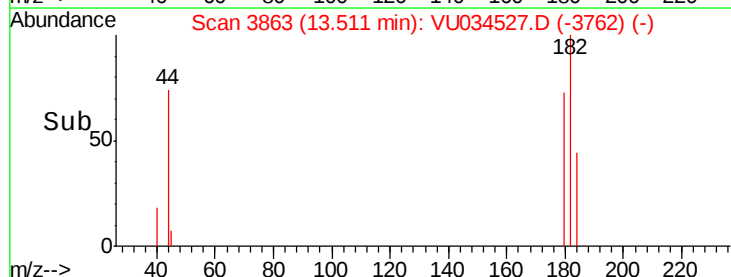
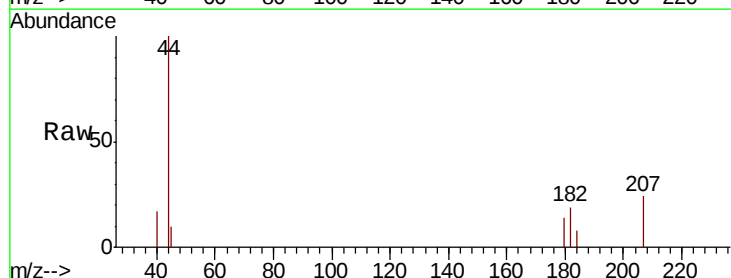
Tgt Ion: 180 Resp: 153

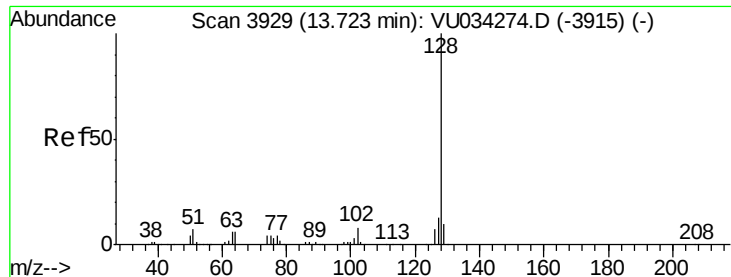
Ion Ratio Lower Upper

180 100

182 126.8 47.9 143.8

145 0.0 14.4 43.0#





#95

Naphthalene

Concen: 4.058 ug/l

RT: 13.77 min Scan# 3945

Delta R.T. 0.05 min

Lab File: VU034527.D

Acq: 12 Sep 2019 18:00

Instrument :

MSVOA_U

ClientSampleId :

CPA-RB1-M27W1-090419

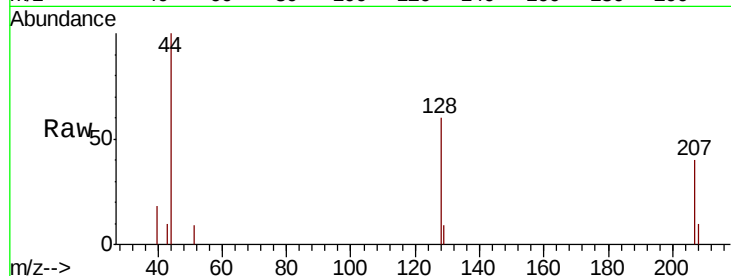
Tgt Ion:128 Resp: 1519

Ion Ratio Lower Upper

128 100

127 4.4 10.6 15.8#

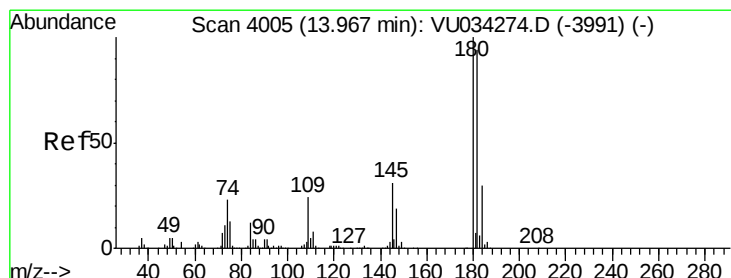
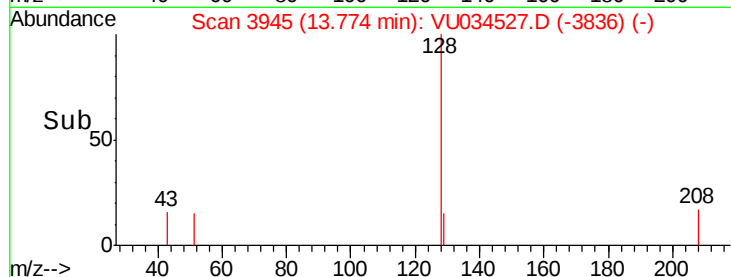
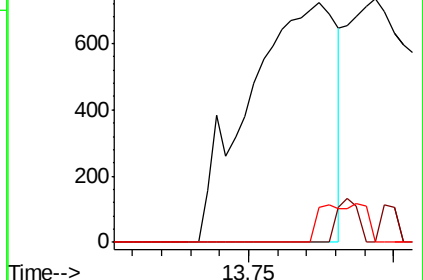
129 5.4 8.4 12.6#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 2.776 ug/l

RT: 14.00 min Scan# 4014

Delta R.T. 0.03 min

Lab File: VU034527.D

Acq: 12 Sep 2019 18:00

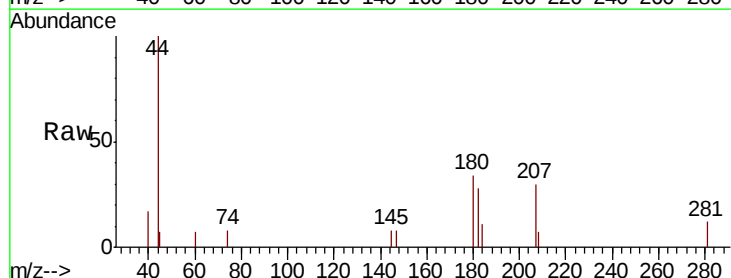
Tgt Ion:180 Resp: 760

Ion Ratio Lower Upper

180 100

182 111.3 48.4 145.0

145 8.4 15.4 46.4#



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

