

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091219\
 Data File : VU034508.D
 Acq On : 12 Sep 2019 10:23
 Operator : JC/SP
 Sample : K4756-25
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 4 Sample Multiplier: 1

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

Quant Time: Sep 13 07:05:23 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	213980	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	303836	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	308698	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	170382	50.00	ug/l	0.00

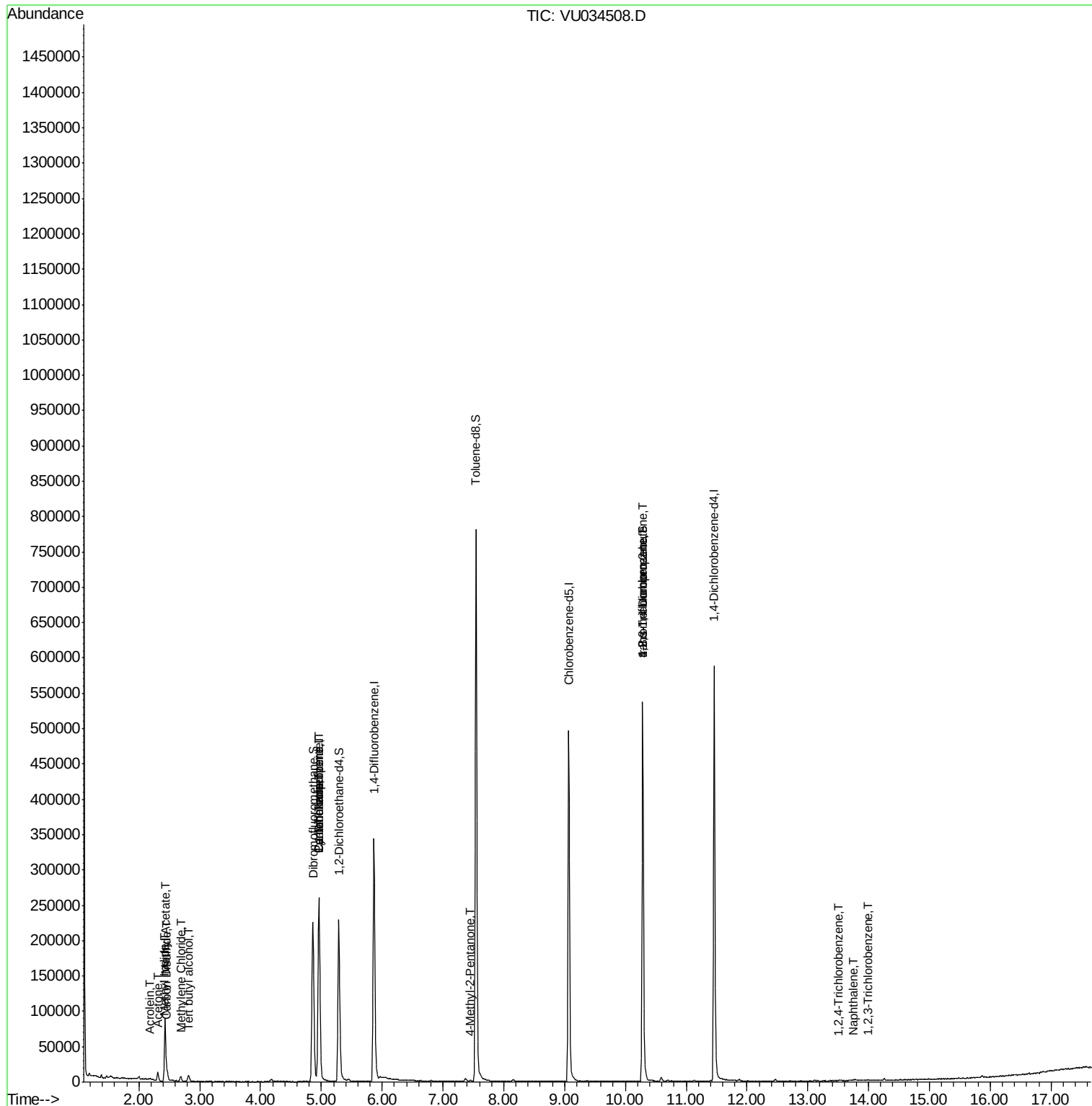
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.29	65	183853	56.79	ug/l	0.00
Spiked Amount 50.000			Recovery	=	113.58%	
35) Dibromofluoromethane	4.86	113	162223	57.38	ug/l	0.00
Spiked Amount 50.000			Recovery	=	114.76%	
50) Toluene-d8	7.54	98	551151	51.89	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.78%	
62) 4-Bromofluorobenzene	10.29	95	189207	46.14	ug/l	0.00
Spiked Amount 50.000			Recovery	=	92.28%	

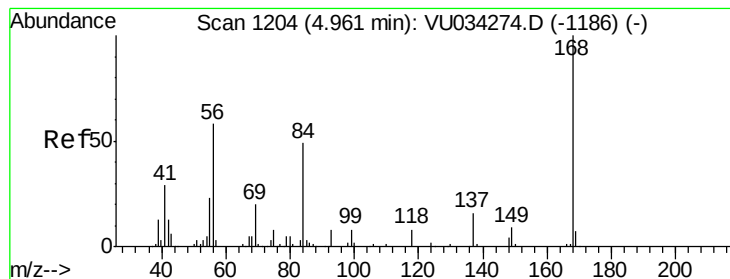
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	717	Below Cal		82
6) Chloroethane	1.68	64	226	Below Cal	#	43
10) Methyl Iodide	2.41	142	219	3.936	ug/l #	43
11) Tert butyl alcohol	2.82	59	8980	13.129	ug/l #	89
13) Acrolein	2.18	56	202	0.351	ug/l #	62
16) Acetone	2.31	43	13148	7.848	ug/l	96
17) Carbon Disulfide	2.46	76	9282	1.774	ug/l #	94
18) Methyl Acetate	2.43	43	21492	5.272	ug/l #	52
20) Methylene Chloride	2.69	84	3127	0.746	ug/l	93
31) Cyclohexane	4.96	56	3515	0.927	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	14609	4.434	ug/l #	48
38) Carbon Tetrachloride	4.96	117	18776	5.337	ug/l #	15
51) 4-Methyl-2-Pentanone	7.45	43	1253	0.298	ug/l #	74
76) 1,2,3-Trichloropropane	10.29	75	88360	23.758	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	88360	79.897	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.51	180	138	3.484	ug/l #	78
95) Naphthalene	13.75	128	805	4.031	ug/l #	82
96) 1,2,3-Trichlorobenzene	14.00	180	789	2.831	ug/l #	76

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

```
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_U\DATA\VU091219\  
Data File : VU034508.D  
Acq On    : 12 Sep 2019   10:23  
Operator  : JC/SP  
Sample    : K4756-25  
Misc      : 5.0mL/MSVOA_U/WATER  
ALS Vial  : 4      Sample Multiplier: 1
```

Quant Time: Sep 13 07:05:23 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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034508.D

Acq: 12 Sep 2019 10:23

Instrument :

MSVOA_U

ClientSampleId :

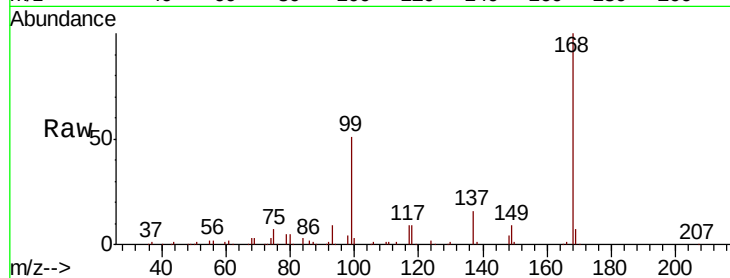
CPA-RB1-M27W1-090419

Tgt Ion:168 Resp: 213980

Ion Ratio Lower Upper

168 100

99 51.4 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

80000

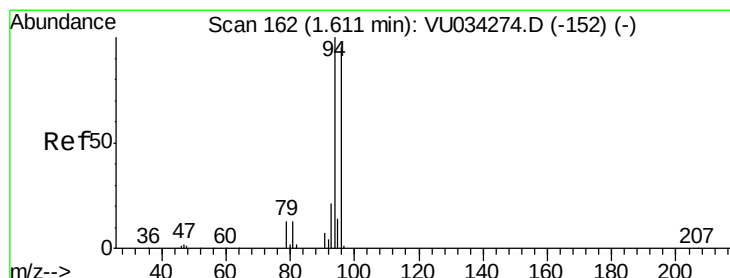
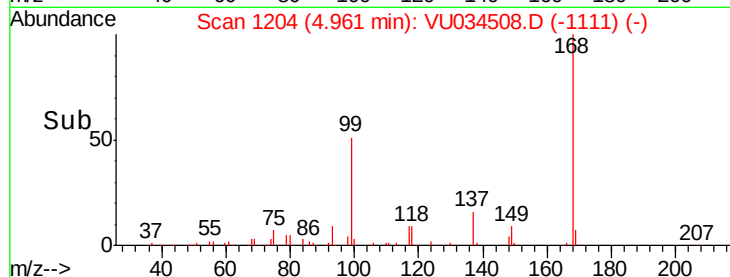
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 167

Delta R.T. 0.02 min

Lab File: VU034508.D

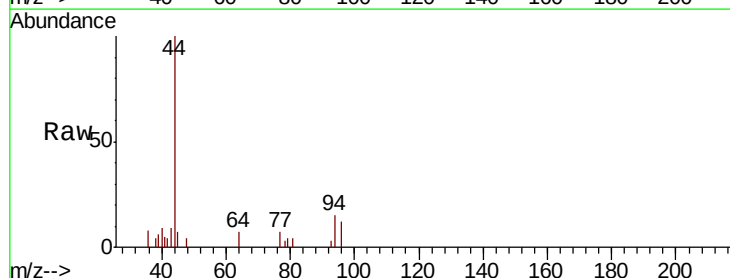
Acq: 12 Sep 2019 10:23

Tgt Ion: 94 Resp: 717

Ion Ratio Lower Upper

94 100

96 76.8 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) (-)

1.63

500

400

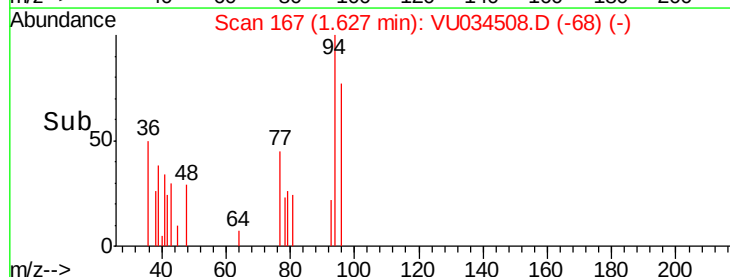
300

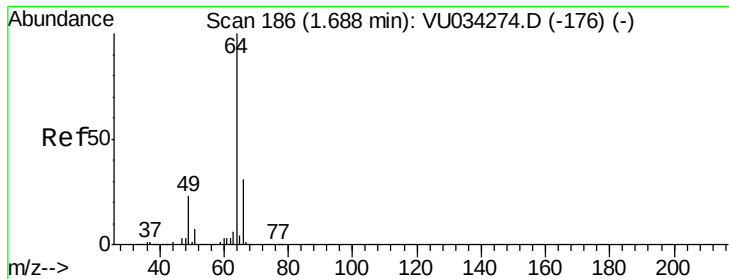
200

100

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.68 min Scan# 185

Delta R.T. -0.00 min

Lab File: VU034508.D

Acq: 12 Sep 2019 10:23

Instrument :

MSVOA_U

ClientSampleId :

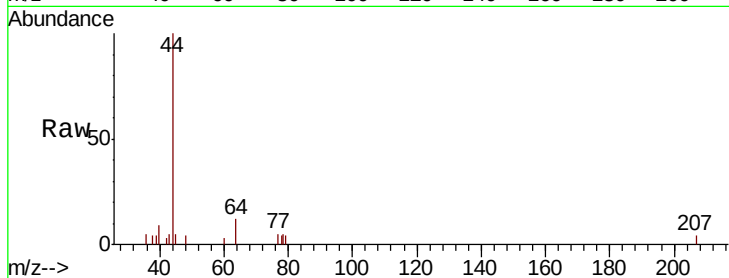
CPA-RB1-M27W1-090419

Tgt Ion: 64 Resp: 226

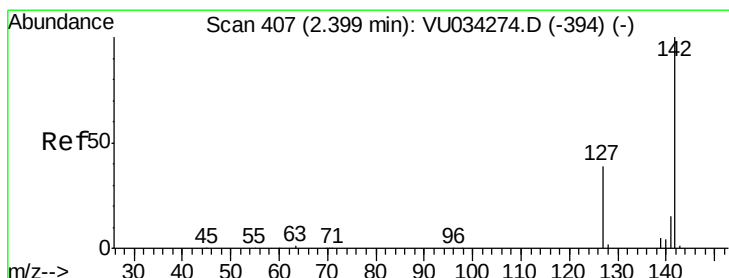
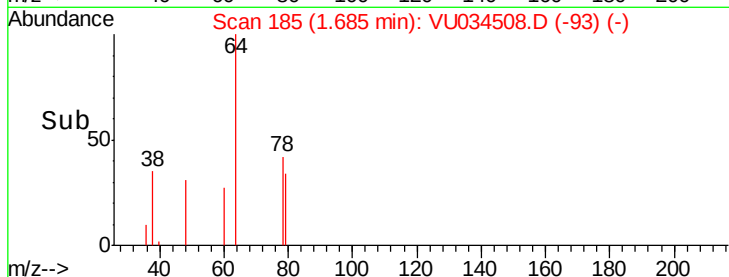
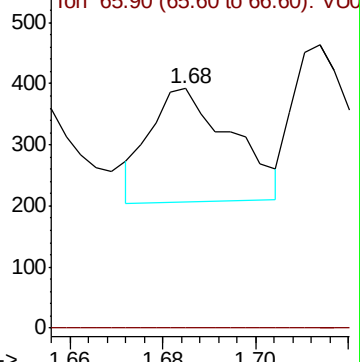
Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



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



#10

Methyl Iodide

Concen: 3.936 ug/l

RT: 2.41 min Scan# 409

Delta R.T. 0.01 min

Lab File: VU034508.D

Acq: 12 Sep 2019 10:23

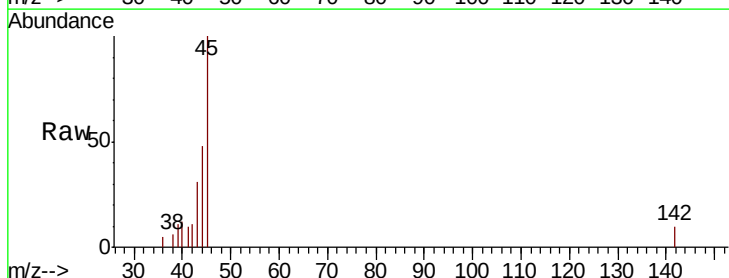
Tgt Ion: 142 Resp: 219

Ion Ratio Lower Upper

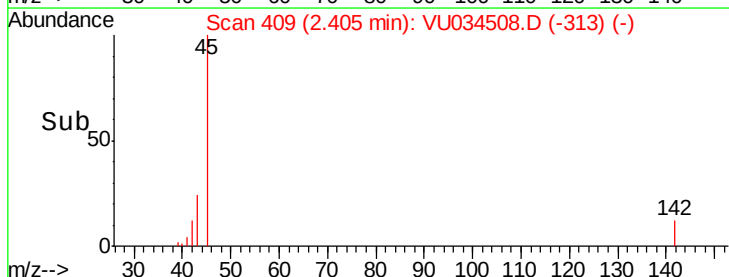
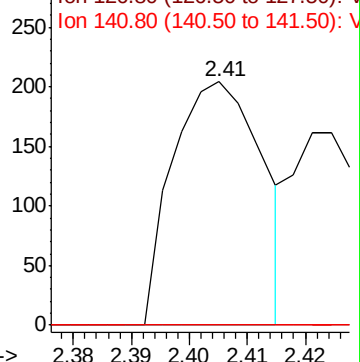
142 100

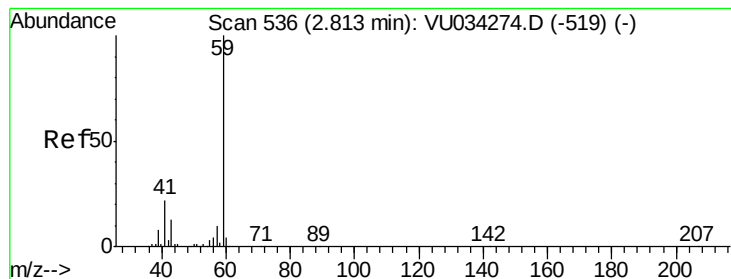
127 0.0 32.1 48.1#

141 0.0 11.5 17.3#



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





#11

Tert butyl alcohol

Concen: 13.129 ug/l

RT: 2.82 min Scan# 537

Delta R.T. 0.00 min

Lab File: VU034508.D

Acq: 12 Sep 2019 10:23

Instrument :

MSVOA_U

ClientSampleId :

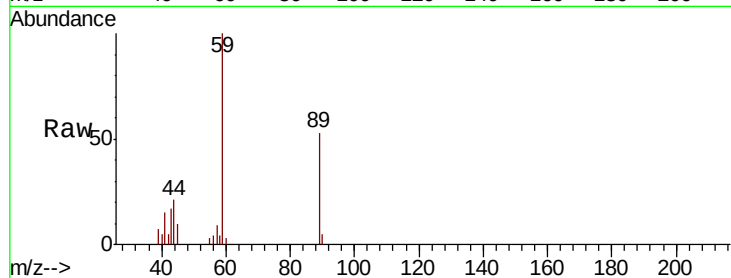
CPA-RB1-M27W1-090419

Tgt Ion: 59 Resp: 8980

Ion Ratio Lower Upper

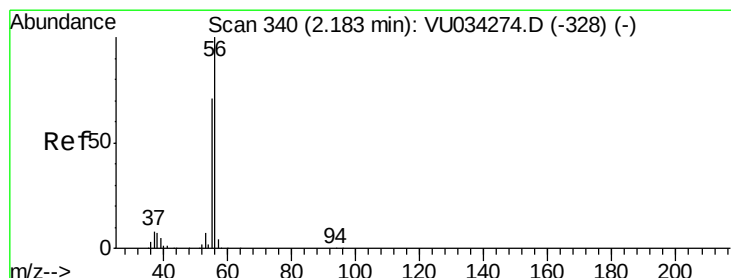
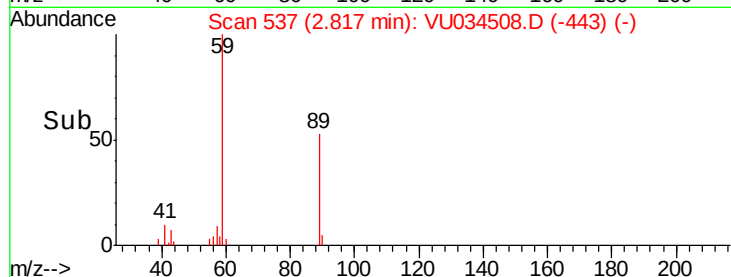
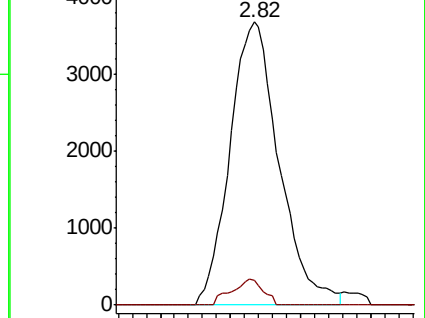
59 100

57 5.8 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VU034274.D (-519) (-)

Ion 57.00 (56.70 to 57.70): VU034274.D (-519) (-)



#13

Acrolein

Concen: 0.351 ug/l

RT: 2.18 min Scan# 339

Delta R.T. -0.00 min

Lab File: VU034508.D

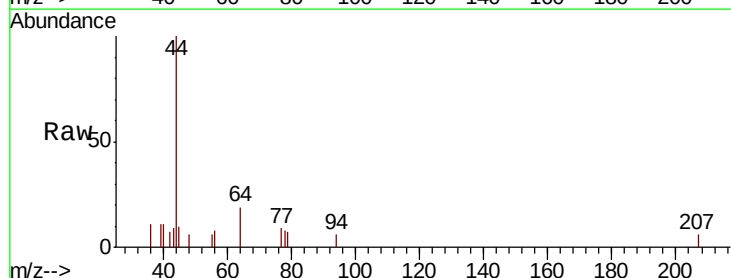
Acq: 12 Sep 2019 10:23

Tgt Ion: 56 Resp: 202

Ion Ratio Lower Upper

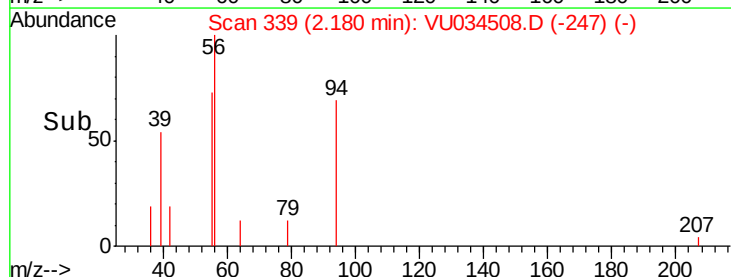
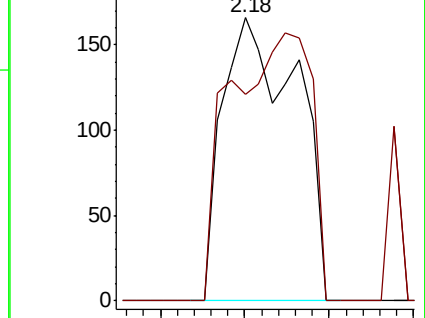
56 100

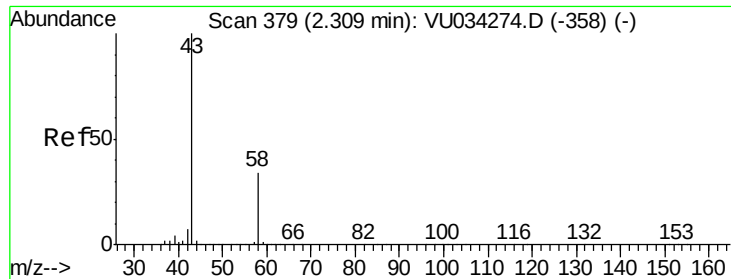
55 103.5 57.4 86.2#



Abundance Ion 56.00 (55.70 to 56.70): VU034274.D (-328) (-)

Ion 55.00 (54.70 to 55.70): VU034274.D (-328) (-)





#16

Acetone

Concen: 7.848 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034508.D

Acq: 12 Sep 2019 10:23

Instrument :

MSVOA_U

ClientSampleId :

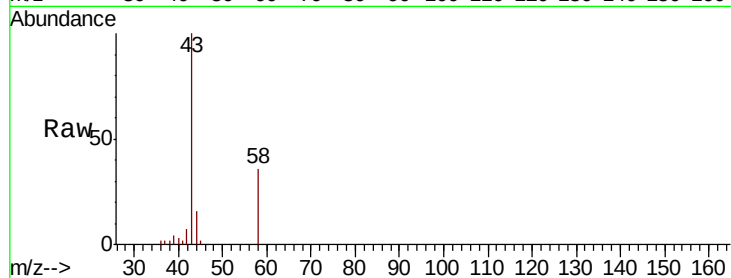
CPA-RB1-M27W1-090419

Tgt Ion: 43 Resp: 13148

Ion Ratio Lower Upper

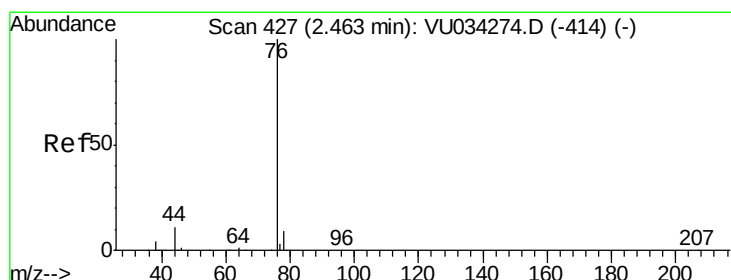
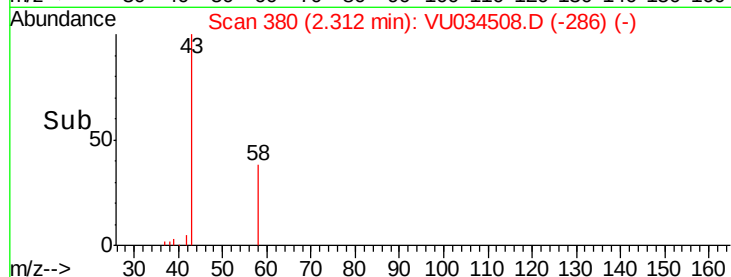
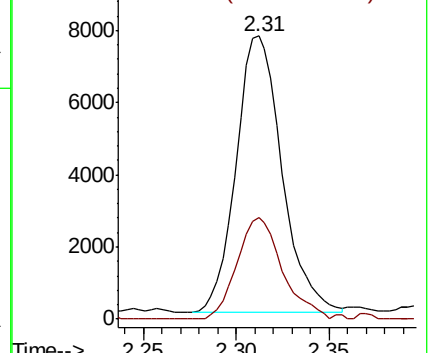
43 100

58 36.6 27.6 41.4



Abundance Ion 43.00 (42.70 to 43.70): VU034508.D (-380) (-)

Ion 58.00 (57.70 to 58.70): VU034508.D (-380) (-)



#17

Carbon Disulfide

Concen: 1.774 ug/l

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU034508.D

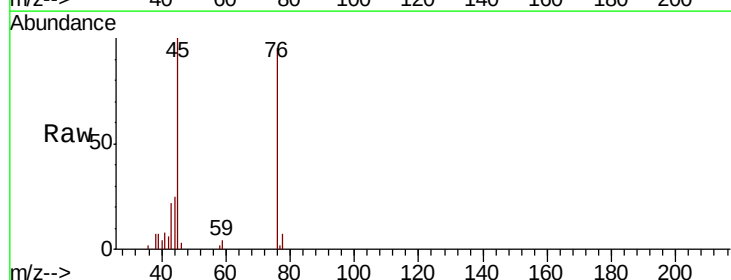
Acq: 12 Sep 2019 10:23

Tgt Ion: 76 Resp: 9282

Ion Ratio Lower Upper

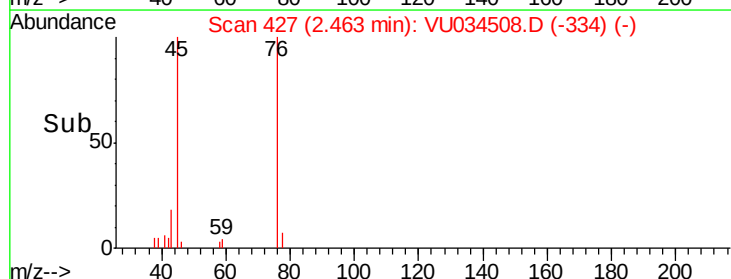
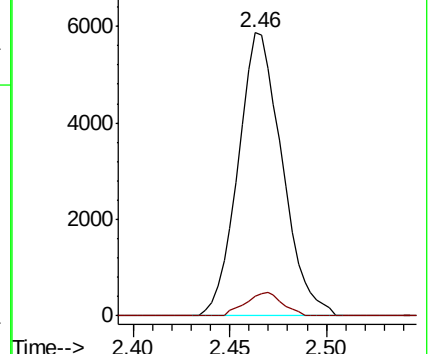
76 100

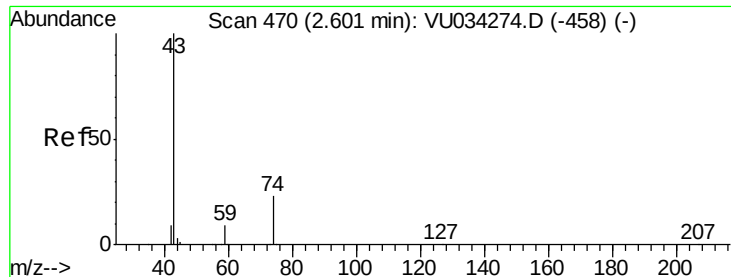
78 7.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VU034508.D (-427) (-)

Ion 77.90 (77.60 to 78.60): VU034508.D (-427) (-)

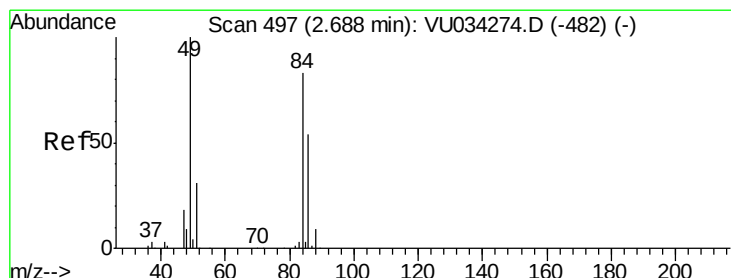
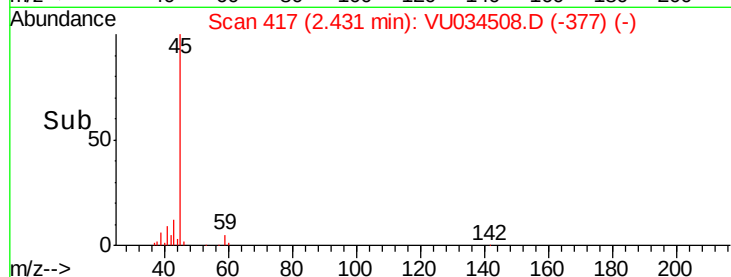
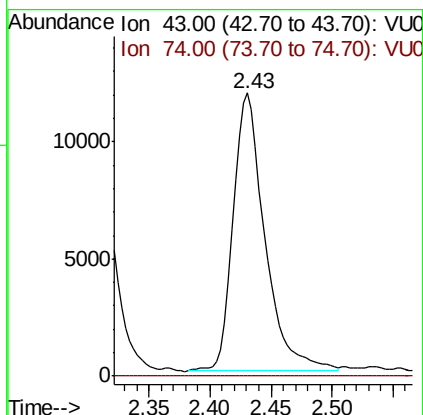
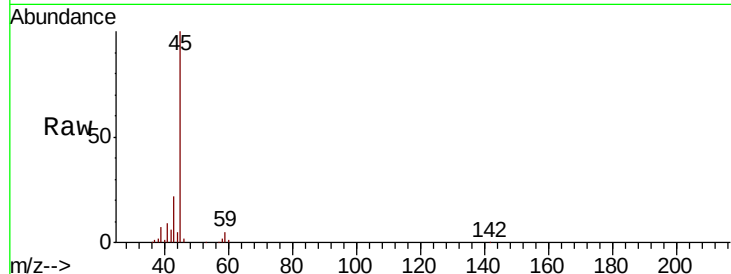




#18
Methyl Acetate
Concen: 5.272 ug/l
RT: 2.43 min Scan# 417
Delta R.T. -0.17 min
Lab File: VU034508.D
Acq: 12 Sep 2019 10:23

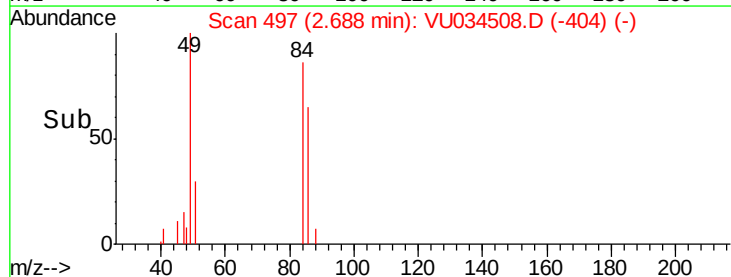
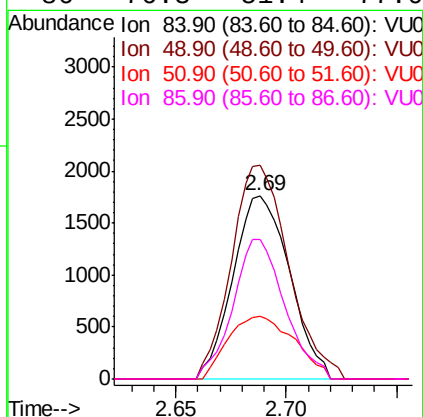
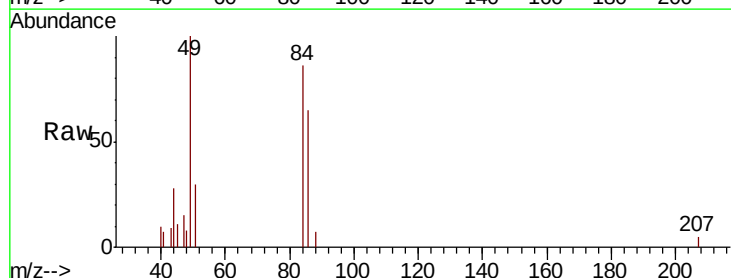
Instrument :
MSVOA_U
ClientSampleId :
CPA-RB1-M27W1-090419

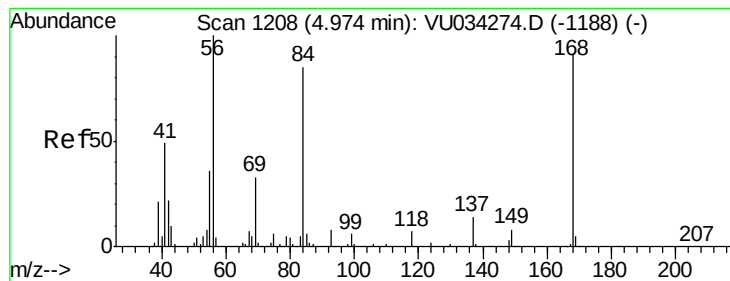
Tgt Ion: 43 Resp: 21492
Ion Ratio Lower Upper
43 100
74 0.0 18.9 28.3#



#20
Methylene Chloride
Concen: 0.746 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU034508.D
Acq: 12 Sep 2019 10:23

Tgt Ion: 84 Resp: 3127
Ion Ratio Lower Upper
84 100
49 116.6 96.0 144.0
51 34.4 30.0 45.0
86 76.3 51.4 77.0





#31

Cyclohexane

Concen: 0.927 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU034508.D

Acq: 12 Sep 2019 10:23

Instrument :

MSVOA_U

ClientSampleId :

CPA-RB1-M27W1-090419

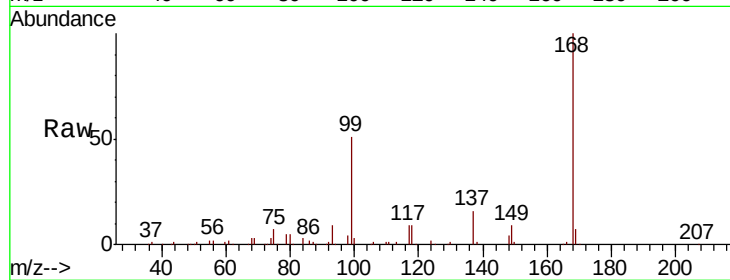
Tgt Ion: 56 Resp: 3515

Ion Ratio Lower Upper

56 100

69 202.0 26.7 40.1#

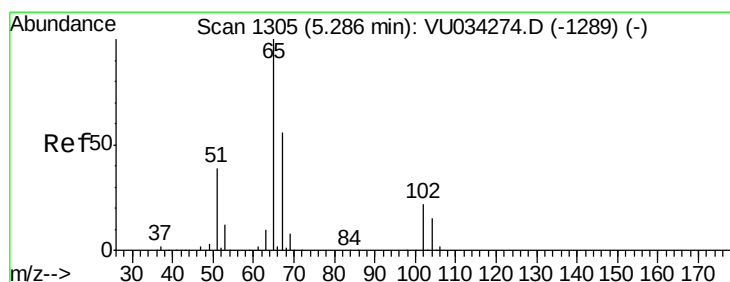
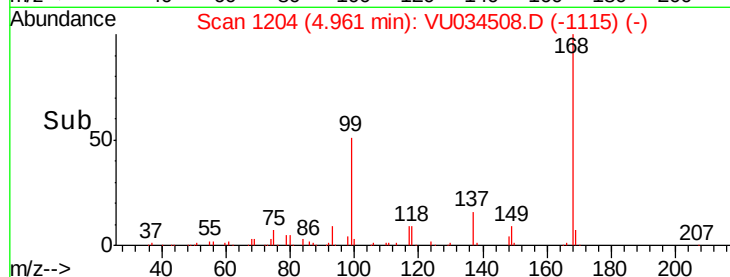
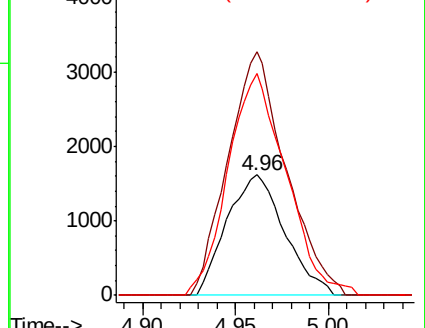
84 177.3 68.2 102.4#



Abundance Ion 56.00 (55.70 to 56.70): VU034508.D (-1188) (-)

Ion 69.00 (68.70 to 69.70): VU034508.D (-1188) (-)

Ion 84.00 (83.70 to 84.70): VU034508.D (-1188) (-)



#33

1,2-Dichloroethane-d4

Concen: 56.787 ug/l

RT: 5.29 min Scan# 1305

Delta R.T. 0.00 min

Lab File: VU034508.D

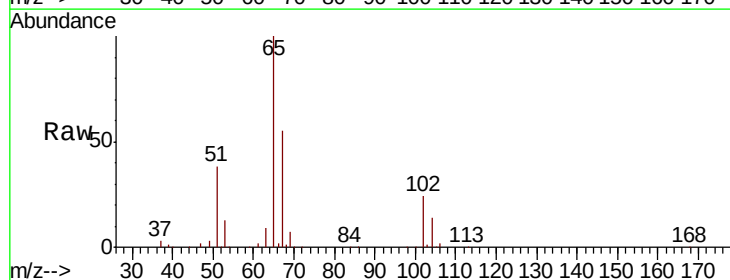
Acq: 12 Sep 2019 10:23

Tgt Ion: 65 Resp: 183853

Ion Ratio Lower Upper

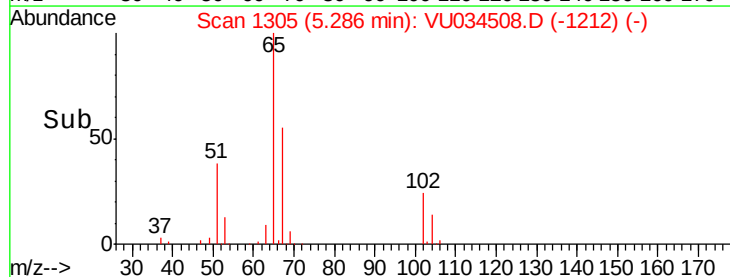
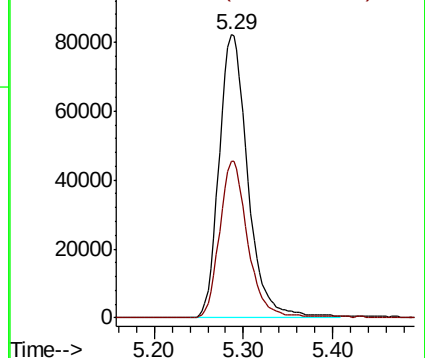
65 100

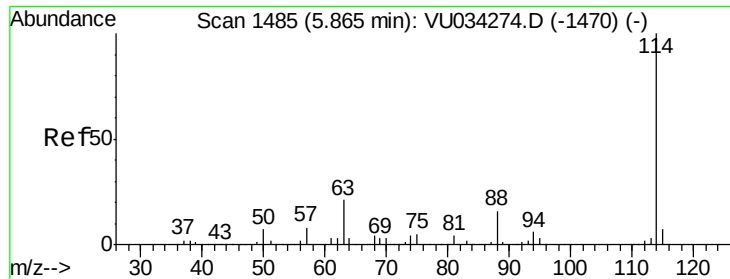
67 53.5 0.0 112.4



Abundance Ion 64.90 (64.60 to 65.60): VU034508.D (-1289) (-)

Ion 66.90 (66.60 to 67.60): VU034508.D (-1289) (-)

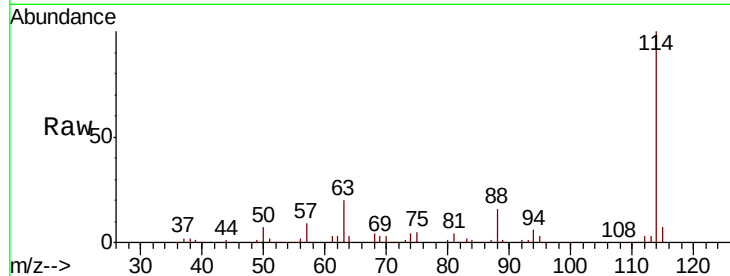




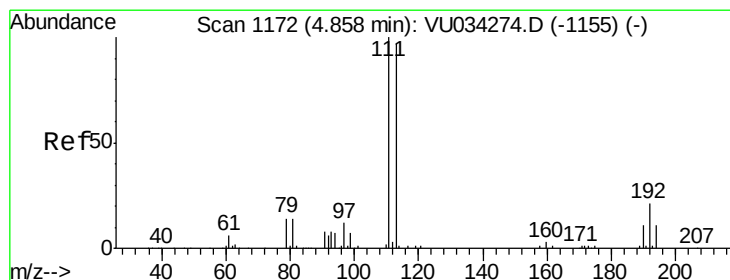
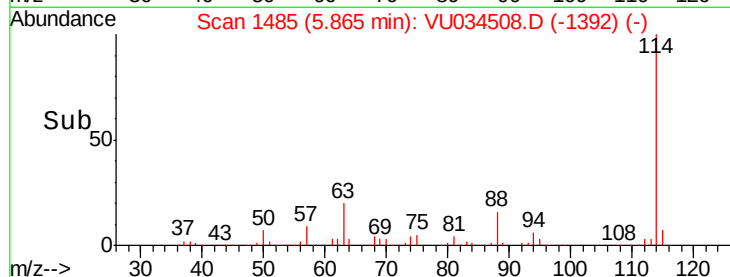
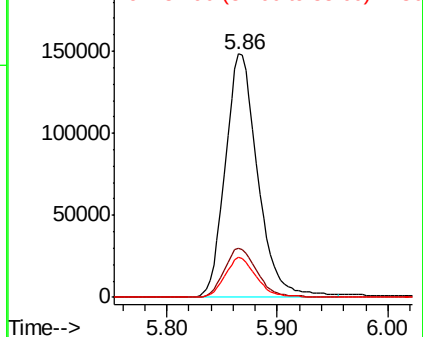
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.86 min Scan# 1485
 Delta R.T. 0.00 min
 Lab File: VU034508.D
 Acq: 12 Sep 2019 10:23

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

Tgt Ion:	114	Resp:	303836
Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	42.4
88	16.3	0.0	32.4

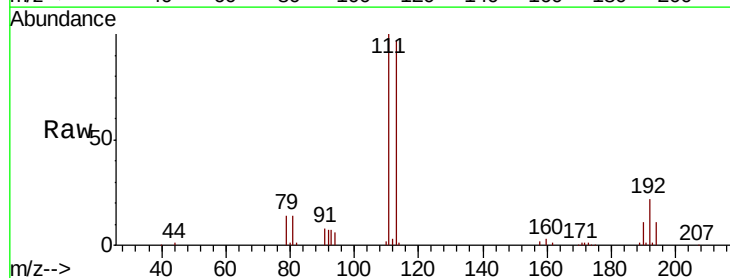


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

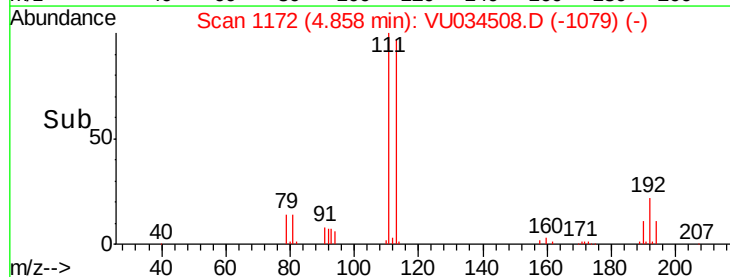
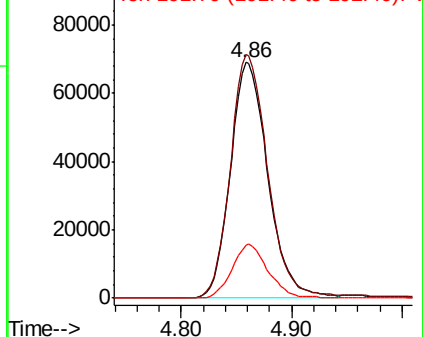


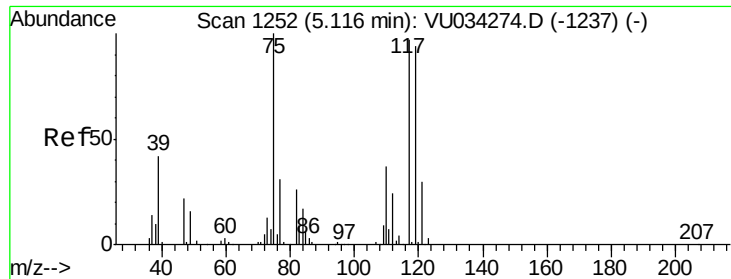
#35
 Dibromofluoromethane
 Concen: 57.379 ug/l
 RT: 4.86 min Scan# 1172
 Delta R.T. 0.00 min
 Lab File: VU034508.D
 Acq: 12 Sep 2019 10:23

Tgt Ion:	113	Resp:	162223
Ion	Ratio	Lower	Upper
113	100		
111	103.6	81.5	122.3
192	21.9	17.8	26.8



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

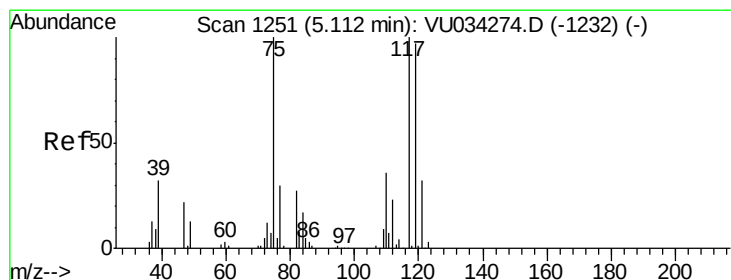
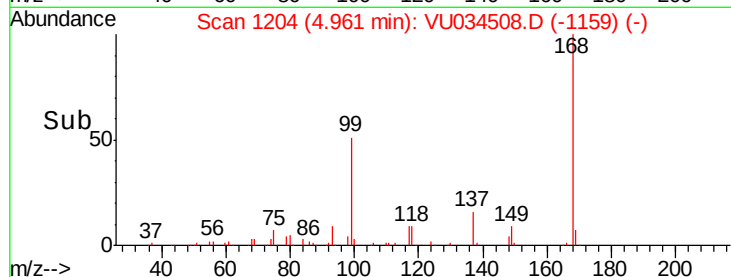
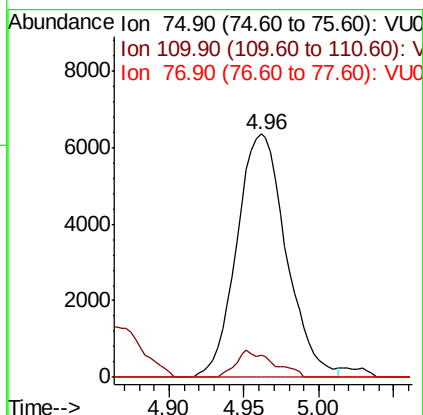
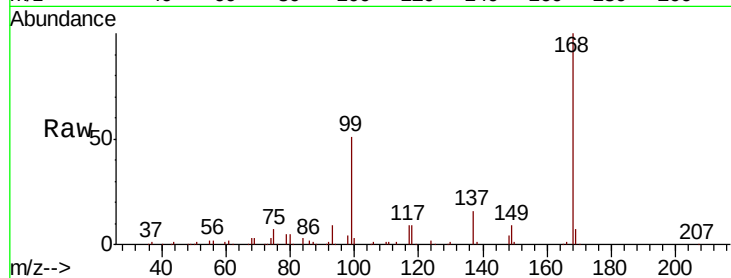




#36
 1,1-Dichloropropene
 Concen: 4.434 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034508.D
 Acq: 12 Sep 2019 10:23

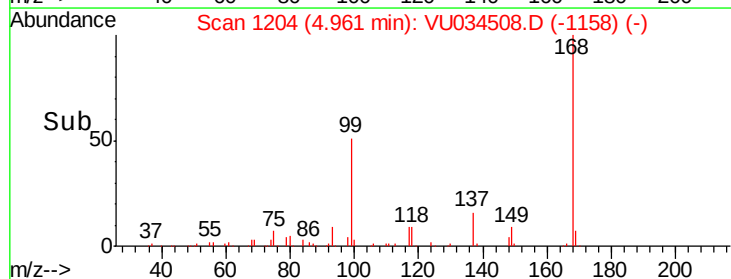
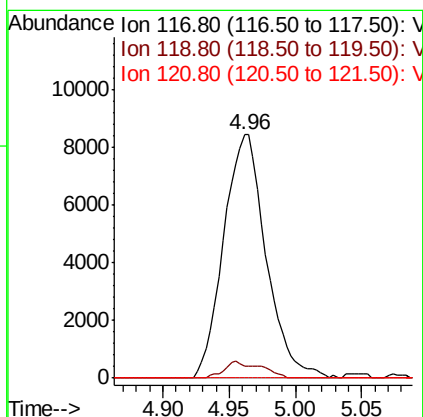
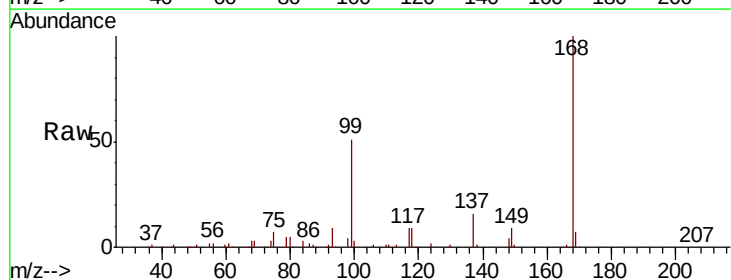
Instrument :
 MSVOA_U
 ClientSampleId :
 CPA-RB1-M27W1-090419

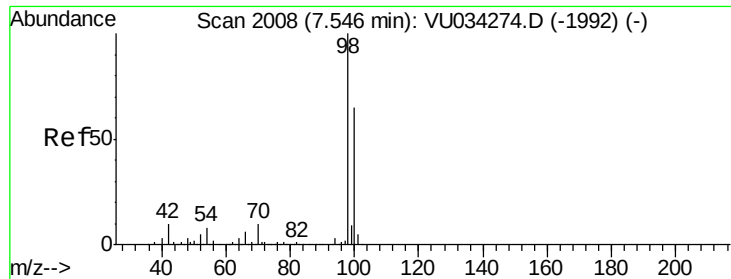
Tgt Ion: 75 Resp: 14609
 Ion Ratio Lower Upper
 75 100
 110 8.4 18.3 54.9#
 77 0.0 24.9 37.3#



#38
 Carbon Tetrachloride
 Concen: 5.337 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034508.D
 Acq: 12 Sep 2019 10:23

Tgt Ion: 117 Resp: 18776
 Ion Ratio Lower Upper
 117 100
 119 5.0 77.8 116.6#
 121 0.0 25.2 37.8#

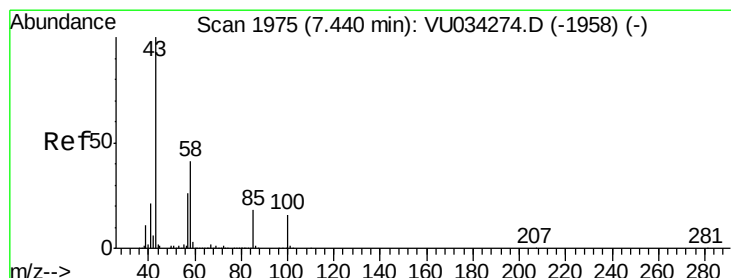
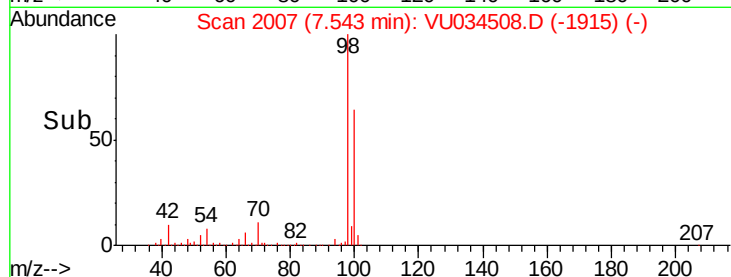
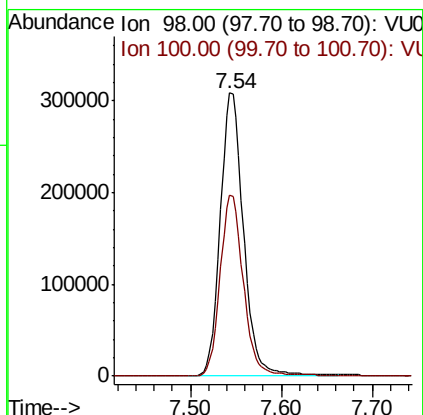
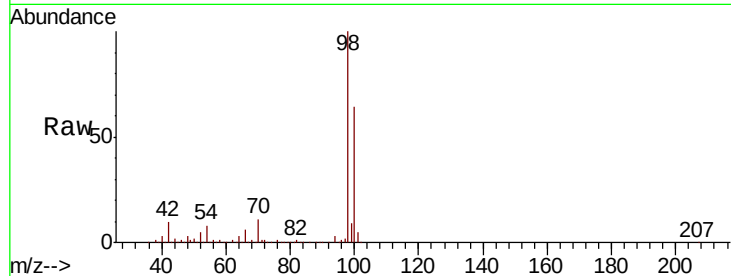




#50
Toluene-d8
Concen: 51.888 ug/l
RT: 7.54 min Scan# 2007
Delta R.T. -0.00 min
Lab File: VU034508.D
Acq: 12 Sep 2019 10:23

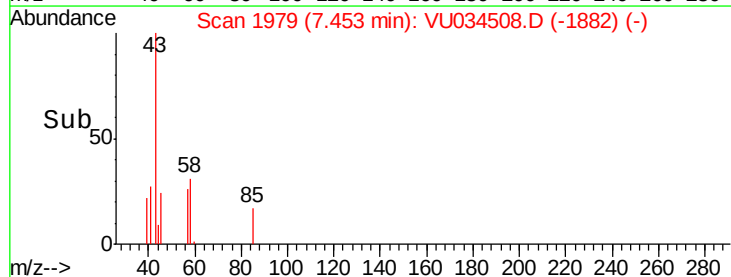
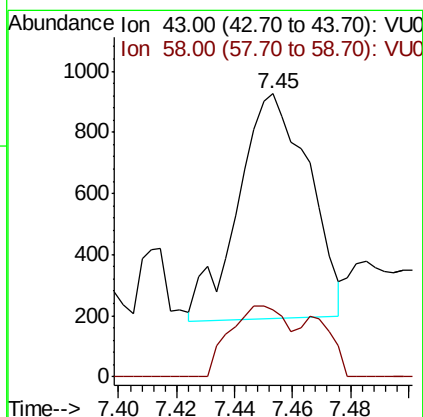
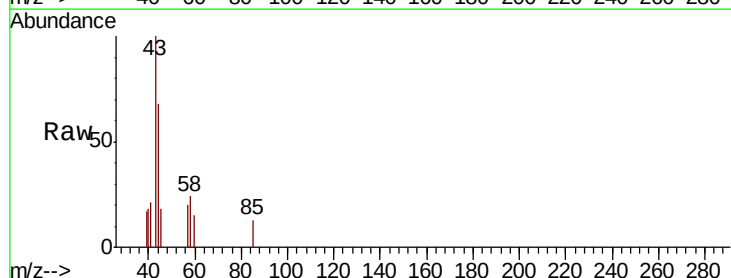
Instrument :
MSVOA_U
ClientSampleId :
CPA-RB1-M27W1-090419

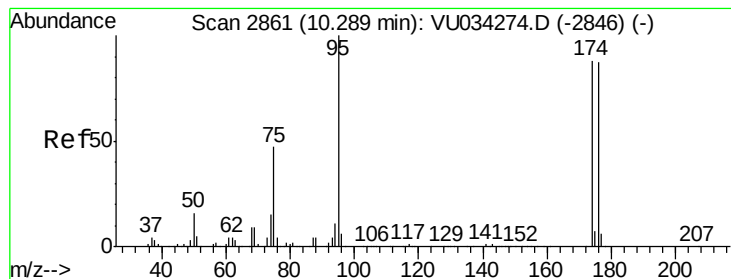
Tgt Ion: 98 Resp: 551151
Ion Ratio Lower Upper
98 100
100 64.1 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 0.298 ug/l
RT: 7.45 min Scan# 1979
Delta R.T. 0.01 min
Lab File: VU034508.D
Acq: 12 Sep 2019 10:23

Tgt Ion: 43 Resp: 1253
Ion Ratio Lower Upper
43 100
58 25.1 33.0 49.4#





#62

4-Bromofluorobenzene

Concen: 46.136 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VU034508.D

Acq: 12 Sep 2019 10:23

Instrument :

MSVOA_U

ClientSampleId :

CPA-RB1-M27W1-090419

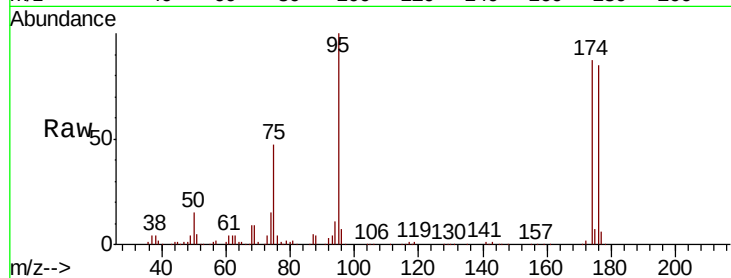
Tgt Ion: 95 Resp: 189207

Ion Ratio Lower Upper

95 100

174 89.9 0.0 175.2

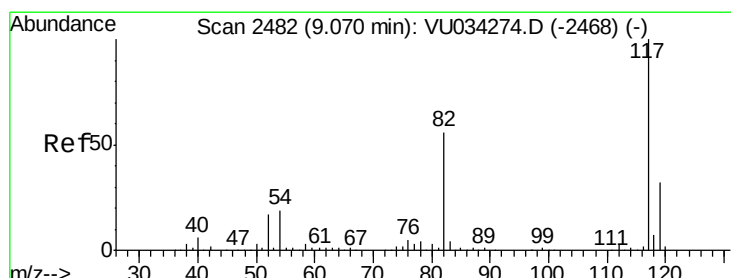
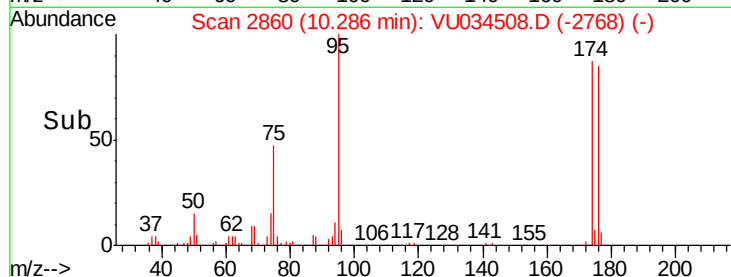
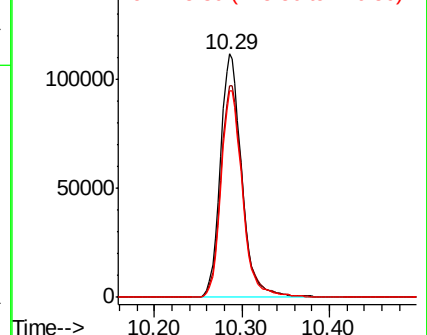
176 84.8 0.0 168.0



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# 2481

Delta R.T. -0.00 min

Lab File: VU034508.D

Acq: 12 Sep 2019 10:23

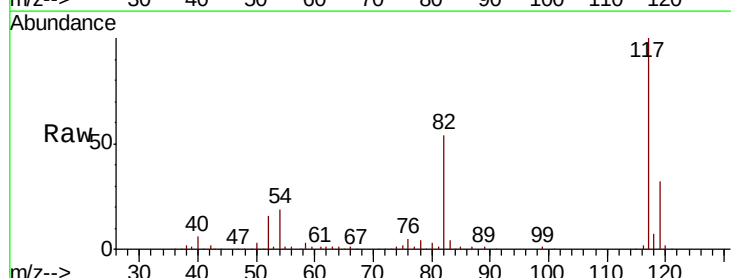
Tgt Ion: 117 Resp: 308698

Ion Ratio Lower Upper

117 100

82 54.4 44.6 67.0

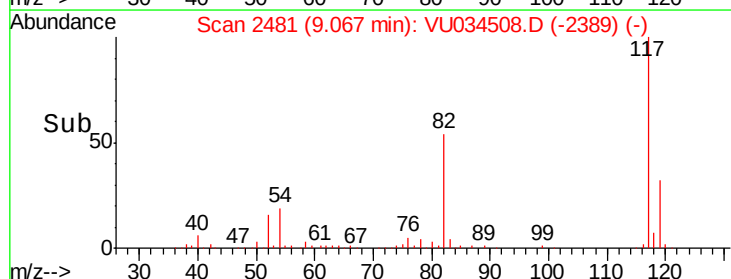
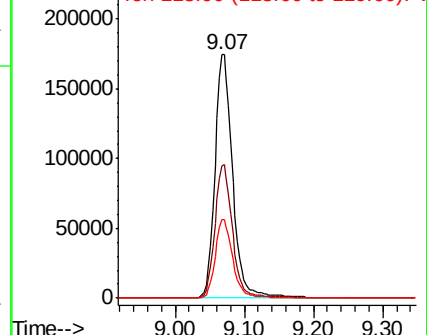
119 32.3 25.9 38.9

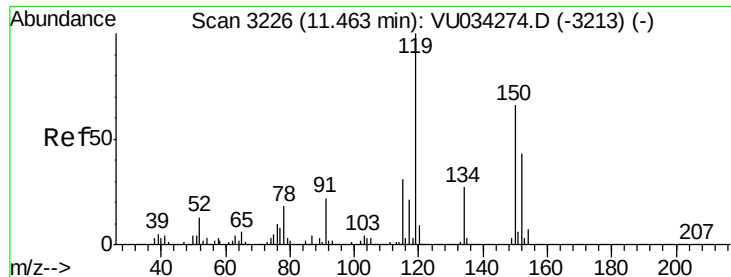


Abundance Ion 116.90 (116.60 to 117.60): V

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: 11.46 min Scan# 3226

Delta R.T. 0.00 min

Lab File: VU034508.D

Acq: 12 Sep 2019 10:23

Instrument :

MSVOA_U

ClientSampleId :

CPA-RB1-M27W1-090419

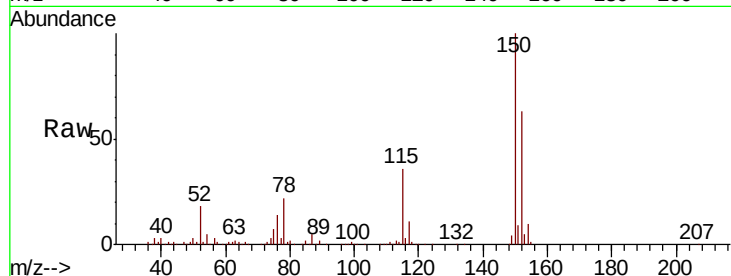
Tgt Ion:152 Resp: 170382

Ion Ratio Lower Upper

152 100

115 56.5 39.1 117.3

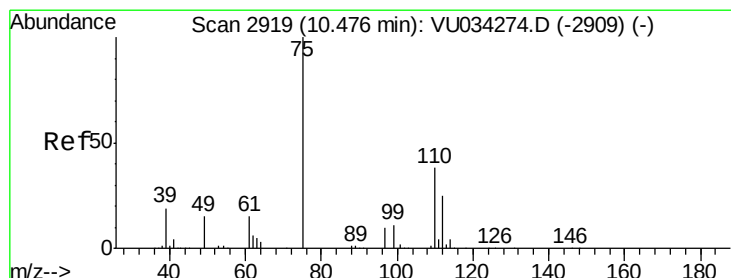
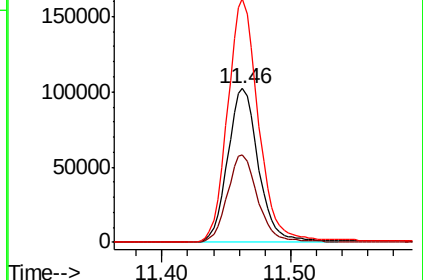
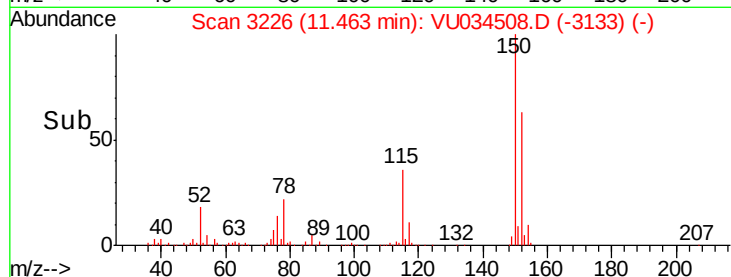
150 158.9 0.0 345.4



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: 23.758 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.19 min

Lab File: VU034508.D

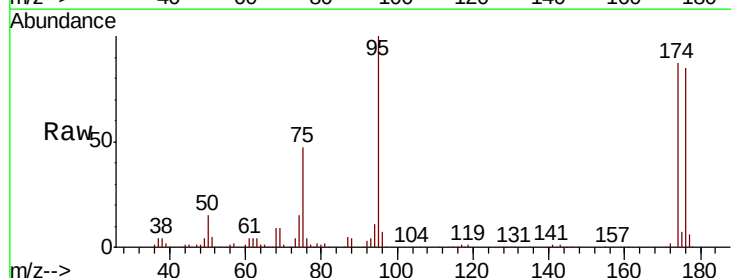
Acq: 12 Sep 2019 10:23

Tgt Ion: 75 Resp: 88360

Ion Ratio Lower Upper

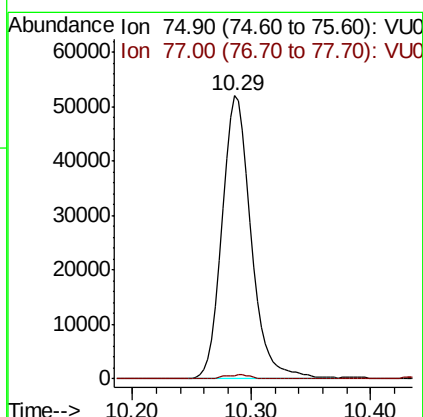
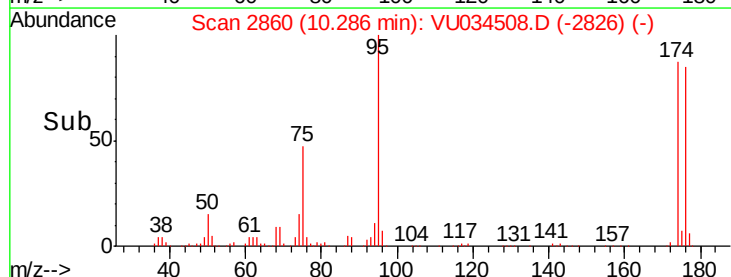
75 100

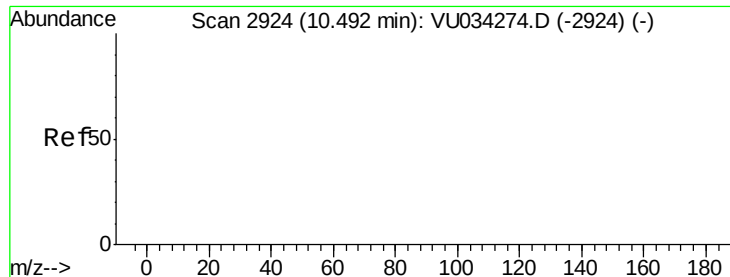
77 1.3 20.8 62.2#



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: 79.897 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.21 min

Lab File: VU034508.D

Acq: 12 Sep 2019 10:23

Instrument :

MSVOA_U

ClientSampleId :

CPA-RB1-M27W1-090419

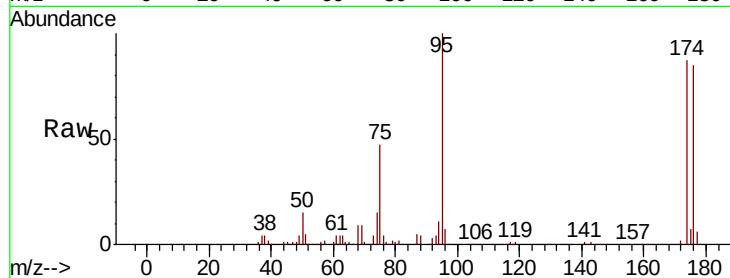
Tgt Ion: 75 Resp: 88360

Ion Ratio Lower Upper

75 100

53 0.3 0.0 0.0#

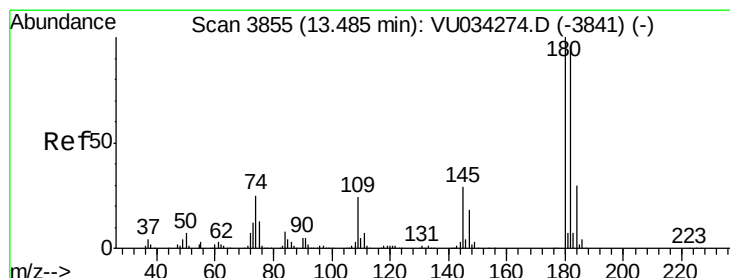
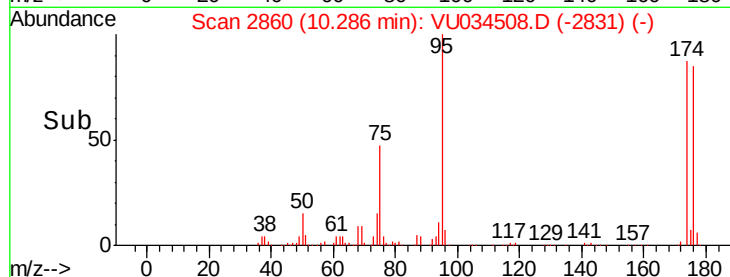
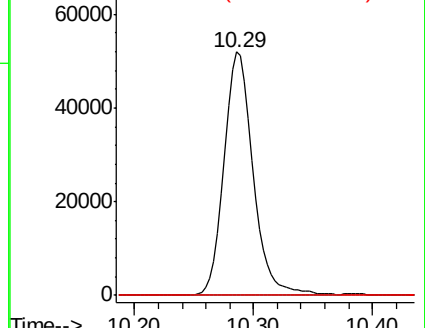
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU034274.D (-2924) (-)

Ion 53.00 (52.70 to 53.70): VU034274.D (-2924) (-)

Ion 88.90 (88.60 to 89.60): VU034274.D (-2924) (-)



#93

1,2,4-Trichlorobenzene

Concen: 3.484 ug/l

RT: 13.51 min Scan# 3862

Delta R.T. 0.02 min

Lab File: VU034508.D

Acq: 12 Sep 2019 10:23

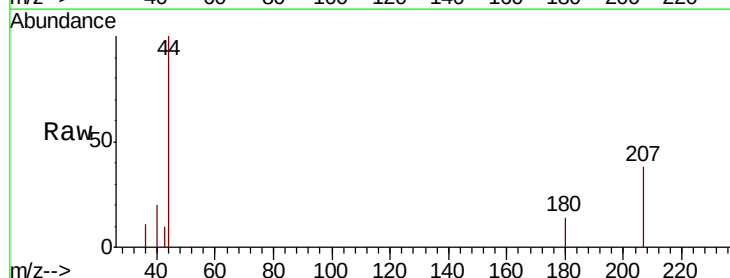
Tgt Ion: 180 Resp: 138

Ion Ratio Lower Upper

180 100

182 108.0 47.9 143.8

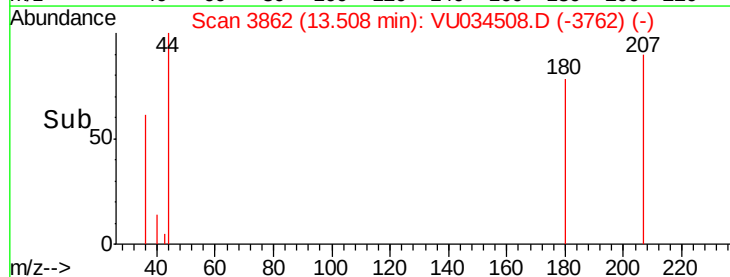
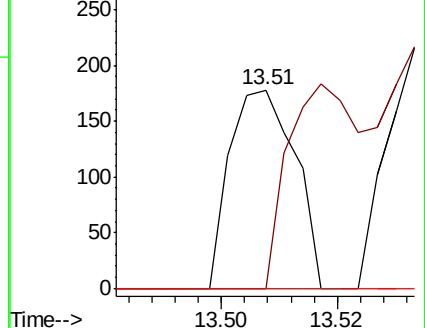
145 0.0 14.4 43.0#

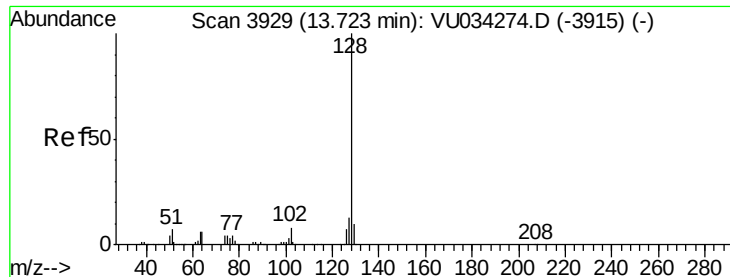


Abundance Ion 179.80 (179.50 to 180.50): VU034274.D (-3841) (-)

Ion 181.80 (181.50 to 182.50): VU034274.D (-3841) (-)

Ion 144.80 (144.50 to 145.50): VU034274.D (-3841) (-)

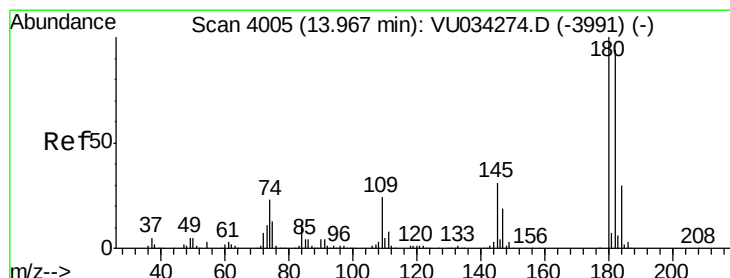
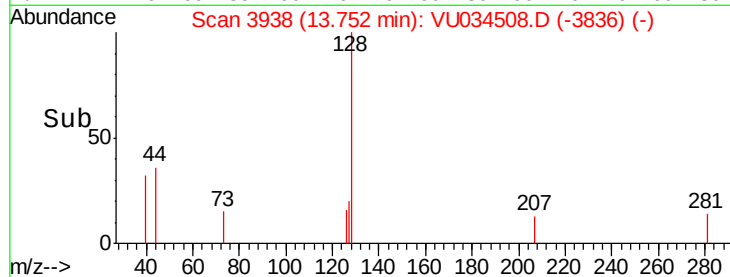
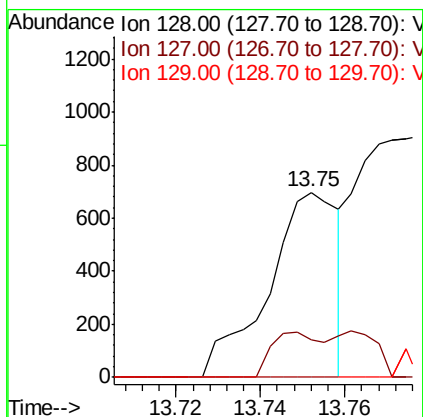
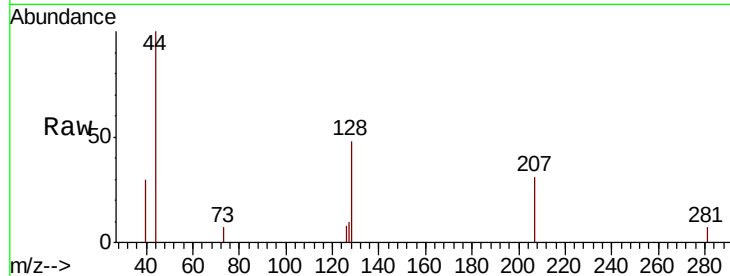




#95
Naphthalene
Concen: 4.031 ug/l
RT: 13.75 min Scan# 3938
Delta R.T. 0.03 min
Lab File: VU034508.D
Acq: 12 Sep 2019 10:23

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

Tgt Ion:128 Resp: 805
Ion Ratio Lower Upper
128 100
127 17.3 10.6 15.8#
129 0.0 8.4 12.6#



#96
1,2,3-Trichlorobenzene
Concen: 2.831 ug/l
RT: 14.00 min Scan# 4014
Delta R.T. 0.03 min
Lab File: VU034508.D
Acq: 12 Sep 2019 10:23

Tgt Ion:180 Resp: 789
Ion Ratio Lower Upper
180 100
182 111.9 48.4 145.0
145 2.7 15.4 46.4#

