

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091219\
 Data File : VU034531.D
 Acq On : 12 Sep 2019 19:33
 Operator : JC/SP
 Sample : K4756-06
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 CPA-CPMW11S-M27W1-090319

Quant Time: Sep 13 07:13:22 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	252623	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	376515	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	387557	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	223114	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	214364	56.08	ug/l	0.00
Spiked Amount 50.000			Recovery	=	112.16%	
35) Dibromofluoromethane	4.86	113	190346	54.33	ug/l	0.00
Spiked Amount 50.000			Recovery	=	108.66%	
50) Toluene-d8	7.55	98	686276	52.14	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.28%	
62) 4-Bromofluorobenzene	10.29	95	230222	45.30	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.60%	

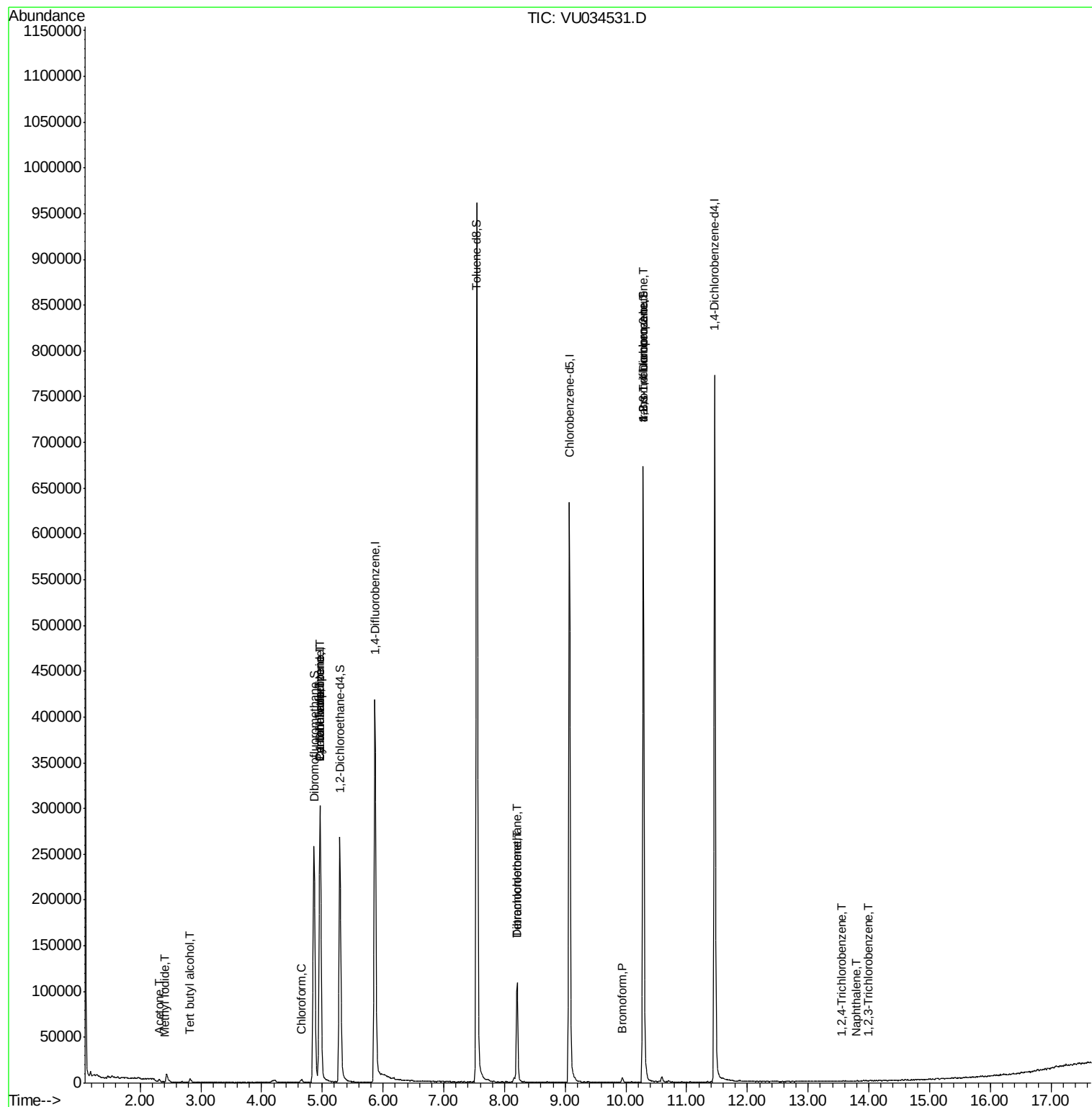
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	608	Below Cal		91
6) Chloroethane	1.68	64	135	Below Cal	#	43
10) Methyl Iodide	2.40	142	281	3.943	ug/l #	43
11) Tert butyl alcohol	2.82	59	2255	2.793	ug/l #	73
16) Acetone	2.32	43	2898	1.465	ug/l	100
20) Methylene Chloride	2.68	84	588	Below Cal	#	76
30) Chloroform	4.66	83	4145	0.666	ug/l #	83
31) Cyclohexane	4.96	56	4023	0.899	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	17596	4.309	ug/l #	48
38) Carbon Tetrachloride	4.96	117	22307	5.116	ug/l #	15
60) Dibromochloromethane	8.21	129	25318	6.289	ug/l #	12
64) Tetrachloroethene	8.21	164	27213	8.094	ug/l	98
71) Bromoform	9.94	173	2587	0.795	ug/l #	90
76) 1,2,3-Trichloropropane	10.29	75	107090	21.989	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	107090	73.947	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.55	180	43	3.459	ug/l #	12
95) Naphthalene	13.81	128	22	3.967	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.00	180	44	2.647	ug/l #	12

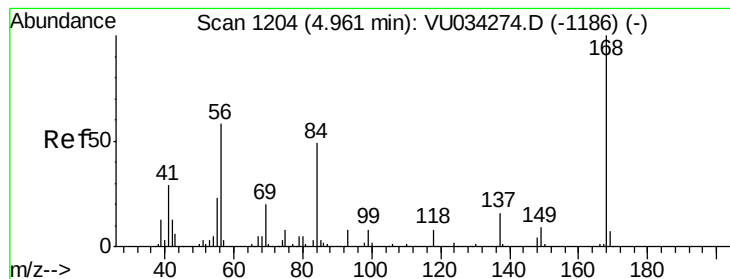
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU034531.D

Acq: 12 Sep 2019 19:33

Instrument :

MSVOA_U

ClientSampleId :

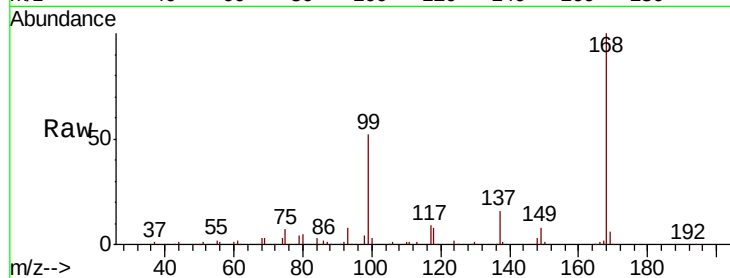
CPA-CPMW11S-M27W1-090319

Tgt Ion:168 Resp: 252623

Ion Ratio Lower Upper

168 100

99 51.9 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

120000

100000

80000

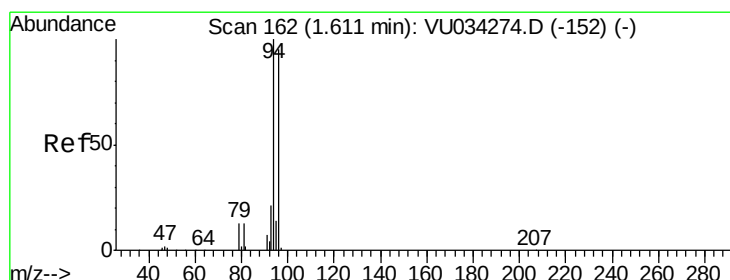
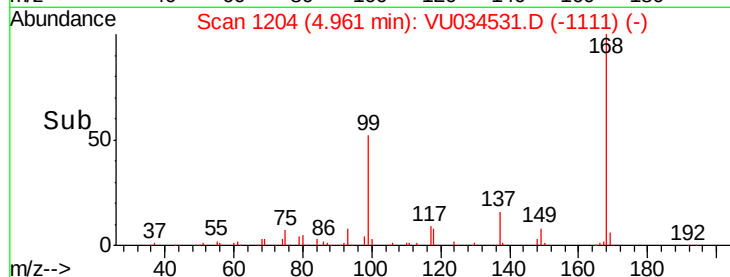
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 162

Delta R.T. 0.02 min

Lab File: VU034531.D

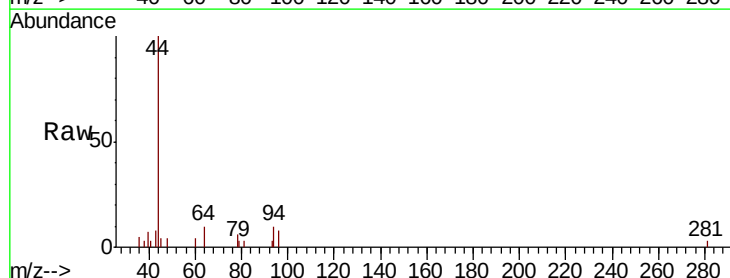
Acq: 12 Sep 2019 19:33

Tgt Ion: 94 Resp: 608

Ion Ratio Lower Upper

94 100

96 85.8 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

400

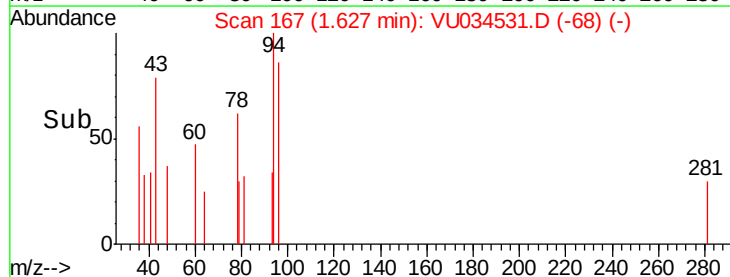
300

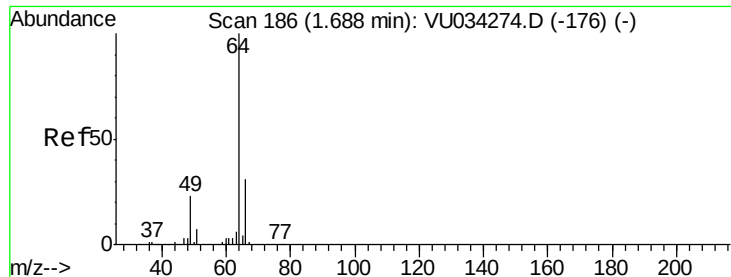
200

100

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.68 min Scan# 184

Delta R.T. -0.01 min

Lab File: VU034531.D

Acq: 12 Sep 2019 19:33

Instrument :

MSVOA_U

ClientSampleId :

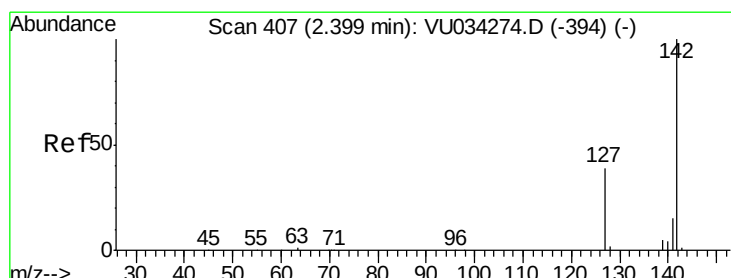
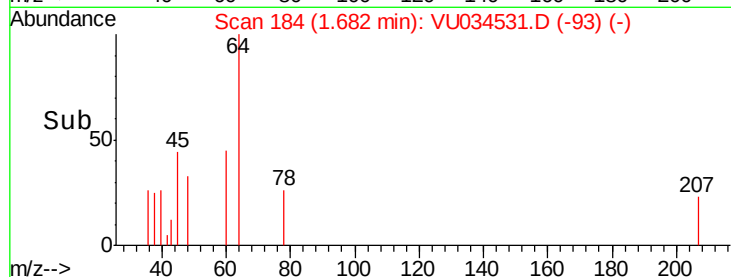
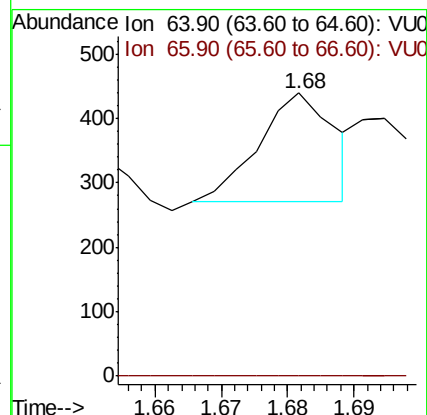
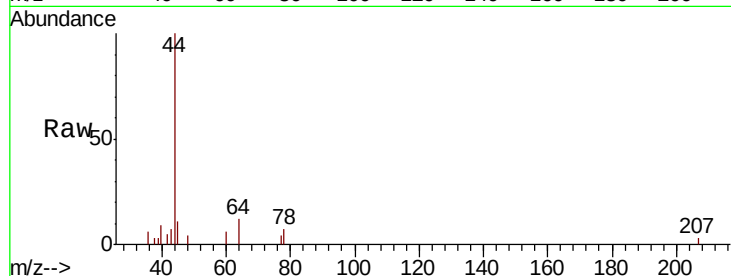
CPA-CPMW11S-M27W1-090319

Tgt Ion: 64 Resp: 135

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



#10

Methyl Iodide

Concen: 3.943 ug/l

RT: 2.40 min Scan# 408

Delta R.T. 0.00 min

Lab File: VU034531.D

Acq: 12 Sep 2019 19:33

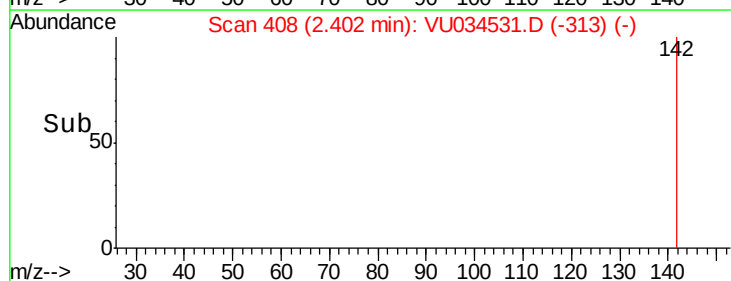
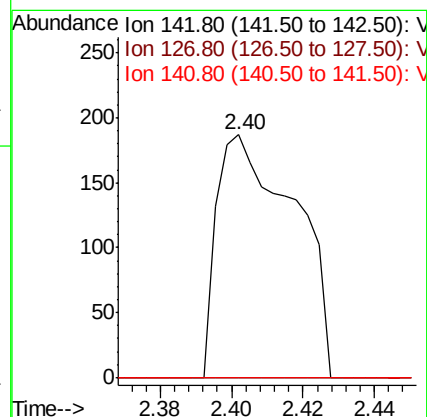
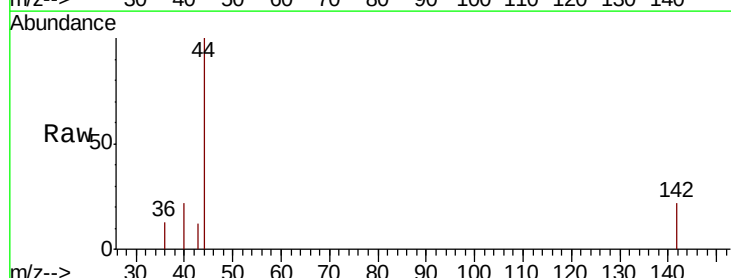
Tgt Ion: 142 Resp: 281

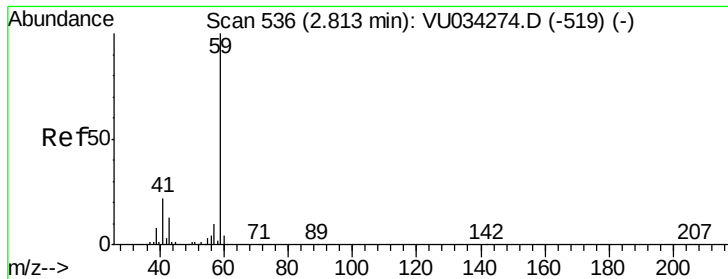
Ion Ratio Lower Upper

142 100

127 0.0 32.1 48.1#

141 0.0 11.5 17.3#



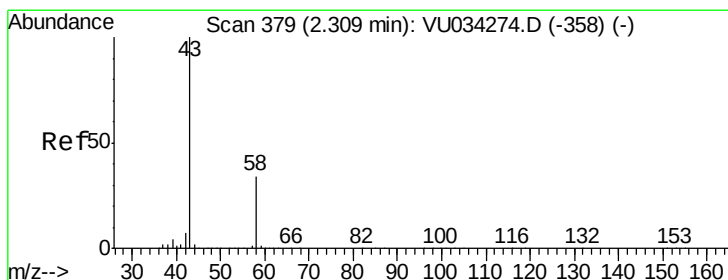
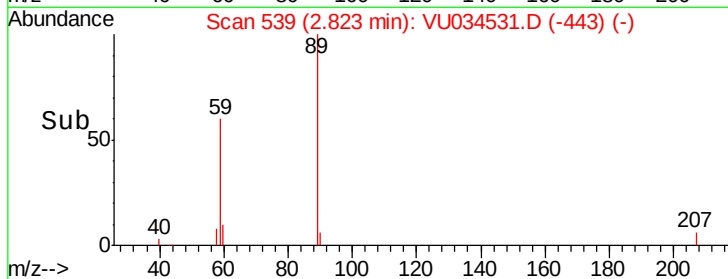
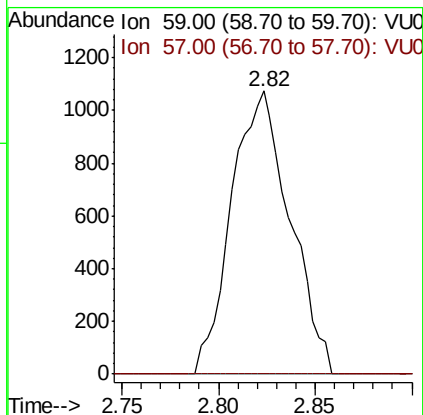
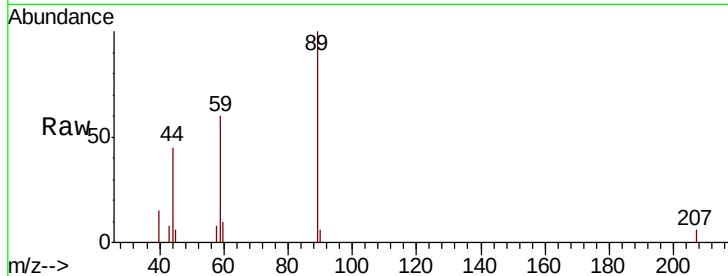


#11

Tert butyl alcohol
 Concen: 2.793 ug/l
 RT: 2.82 min Scan# 539
 Delta R.T. 0.01 min
 Lab File: VU034531.D
 Acq: 12 Sep 2019 19:33

Instrument :
 MSVOA_U
 ClientSampleId :
 CPA-CPMW11S-M27W1-090319

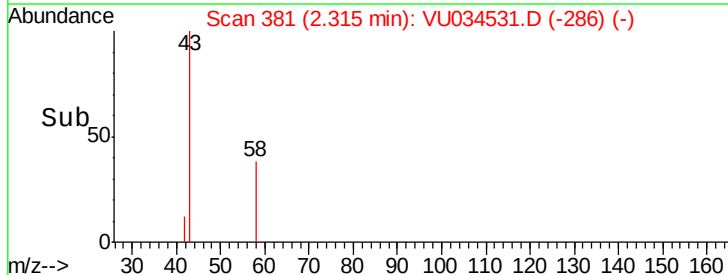
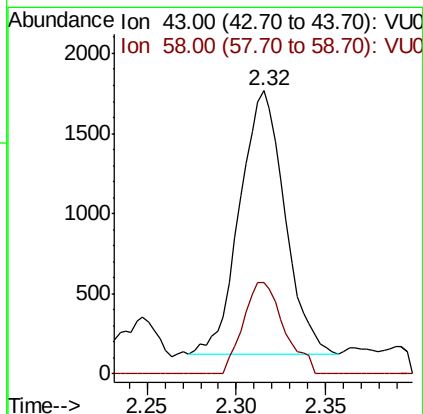
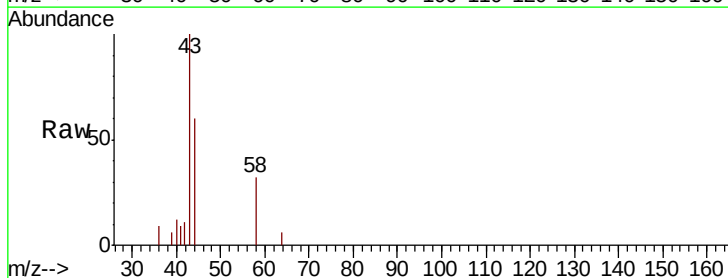
Tgt Ion: 59 Resp: 2255
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.9 11.9#

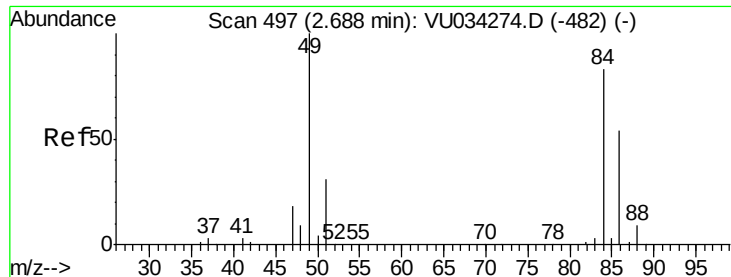


#16

Acetone
 Concen: 1.465 ug/l
 RT: 2.32 min Scan# 381
 Delta R.T. 0.01 min
 Lab File: VU034531.D
 Acq: 12 Sep 2019 19:33

Tgt Ion: 43 Resp: 2898
 Ion Ratio Lower Upper
 43 100
 58 34.7 27.6 41.4

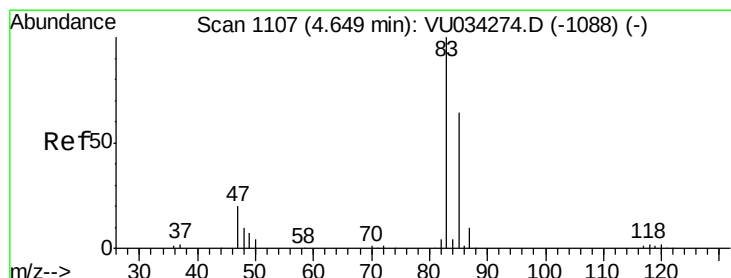
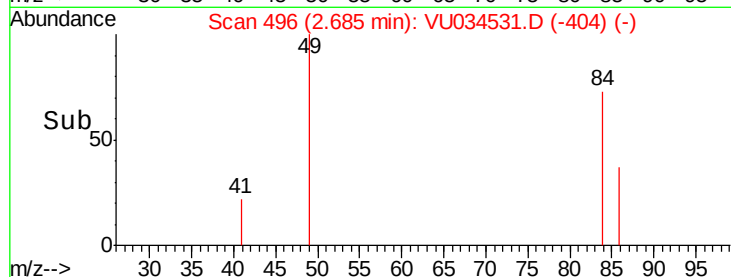
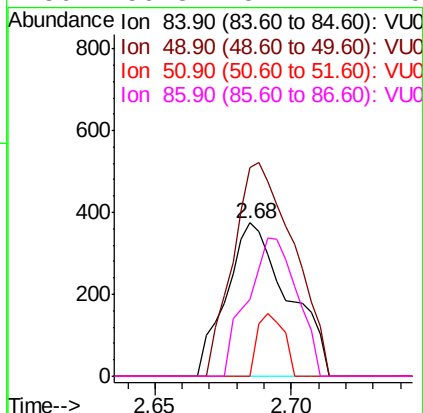
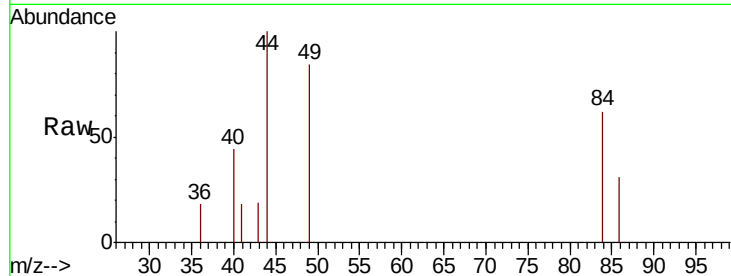




#20
Methylene Chloride
Concen: Below Cal
RT: 2.68 min Scan# 496
Delta R.T. -0.00 min
Lab File: VU034531.D
Acq: 12 Sep 2019 19:33

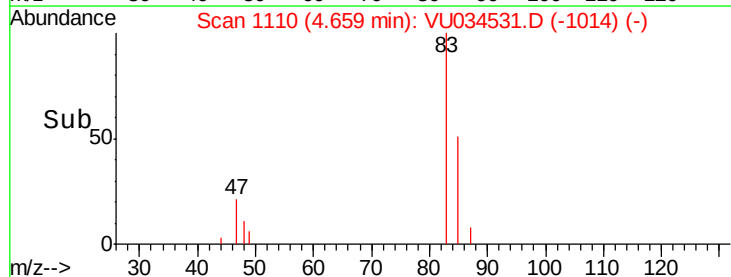
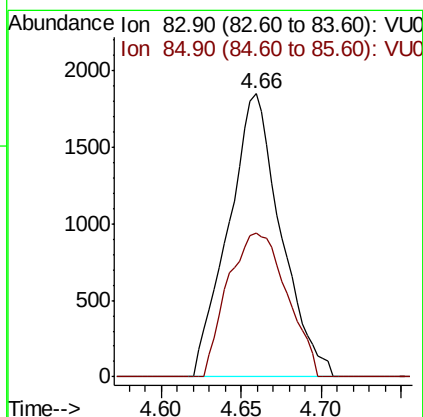
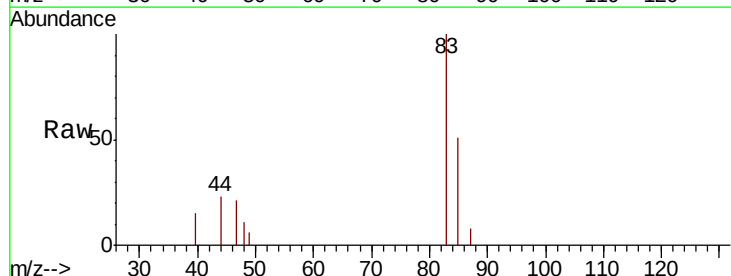
Instrument :
MSVOA_U
ClientSampleId :
CPA-CPMW11S-M27W1-090319

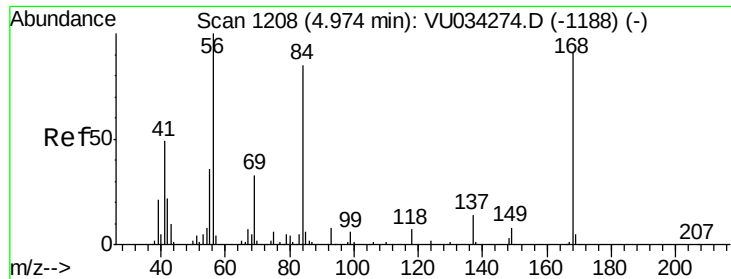
Tgt Ion: 84 Resp: 588
Ion Ratio Lower Upper
84 100
49 136.4 96.0 144.0
51 0.0 30.0 45.0#
86 50.3 51.4 77.0#



#30
Chloroform
Concen: 0.666 ug/l
RT: 4.66 min Scan# 1110
Delta R.T. 0.01 min
Lab File: VU034531.D
Acq: 12 Sep 2019 19:33

Tgt Ion: 83 Resp: 4145
Ion Ratio Lower Upper
83 100
85 50.7 51.5 77.3#

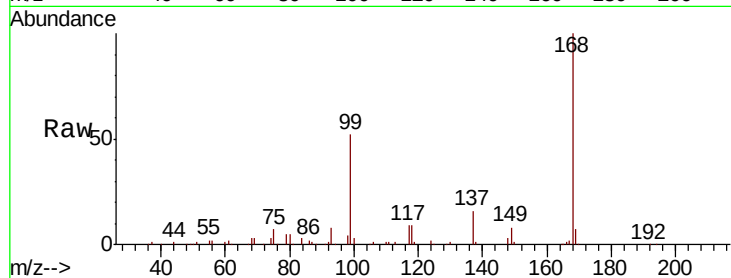




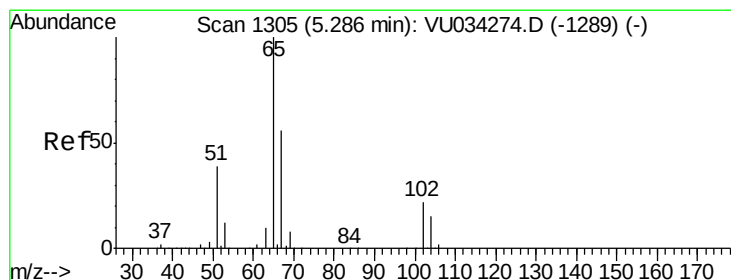
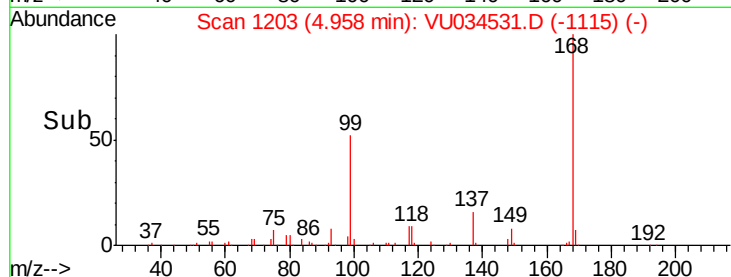
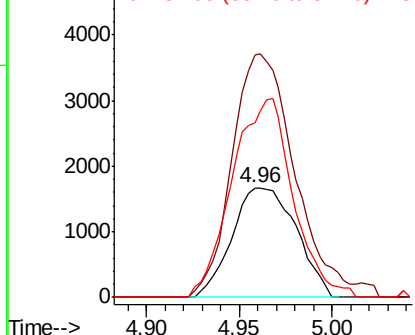
#31
Cyclohexane
Concen: 0.899 ug/l
RT: 4.96 min Scan# 1203
Delta R.T. -0.02 min
Lab File: VU034531.D
Acq: 12 Sep 2019 19:33

Instrument :
MSVOA_U
ClientSampleId :
CPA-CPMW11S-M27W1-090319

Tgt Ion: 56 Resp: 4023
Ion Ratio Lower Upper
56 100
69 221.1 26.7 40.1#
84 158.6 68.2 102.4#

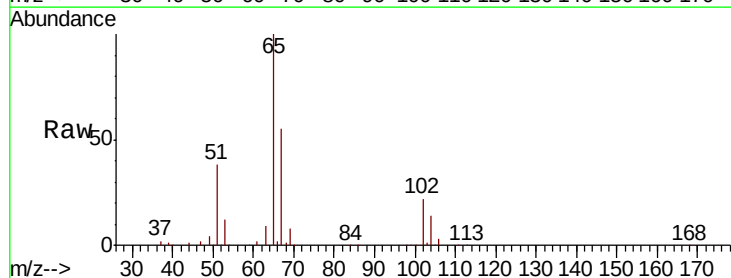


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

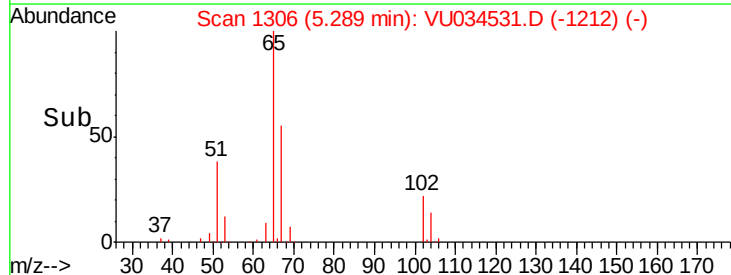
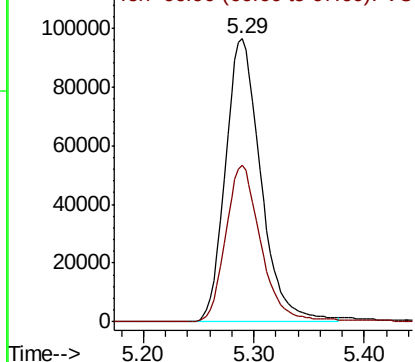


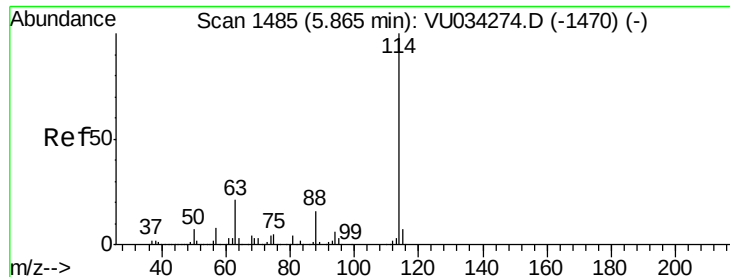
#33
1,2-Dichloroethane-d4
Concen: 56.083 ug/l
RT: 5.29 min Scan# 1306
Delta R.T. 0.00 min
Lab File: VU034531.D
Acq: 12 Sep 2019 19:33

Tgt Ion: 65 Resp: 214364
Ion Ratio Lower Upper
65 100
67 55.5 0.0 112.4



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.87 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VU034531.D

Acq: 12 Sep 2019 19:33

Instrument :

MSVOA_U

ClientSampleId :

CPA-CPMW11S-M27W1-090319

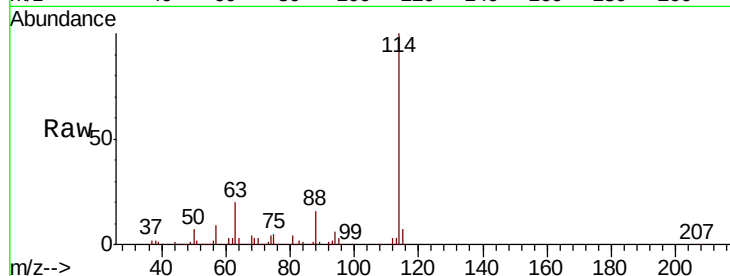
Tgt Ion:114 Resp: 376515

Ion Ratio Lower Upper

114 100

63 20.3 0.0 42.4

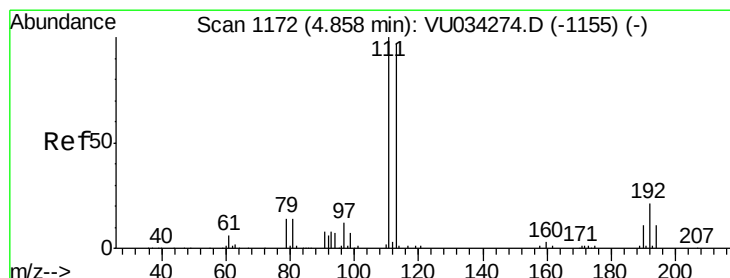
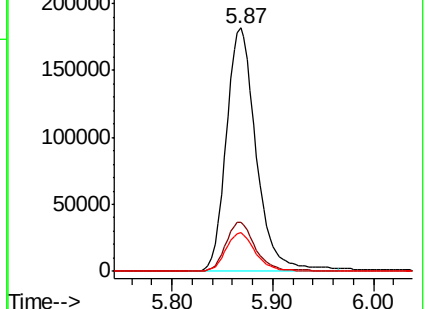
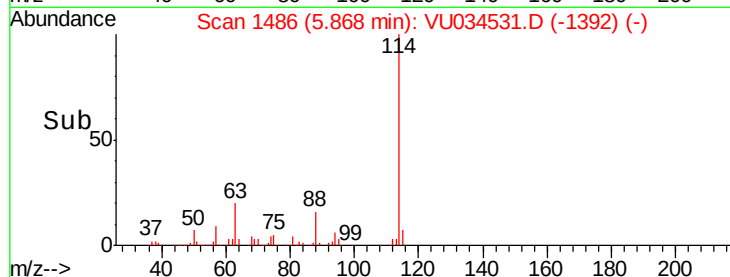
88 15.8 0.0 32.4



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: 54.330 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034531.D

Acq: 12 Sep 2019 19:33

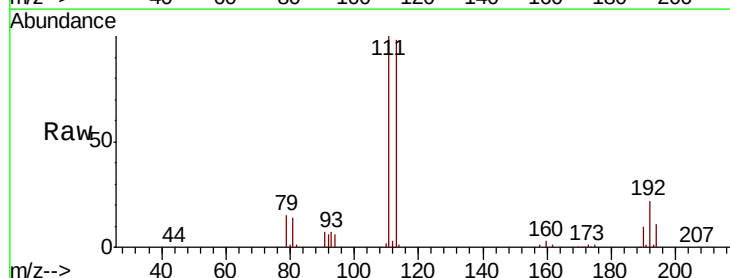
Tgt Ion:113 Resp: 190346

Ion Ratio Lower Upper

113 100

111 101.7 81.5 122.3

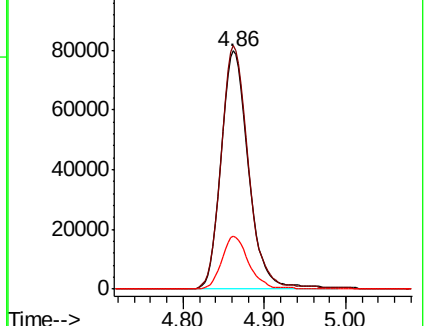
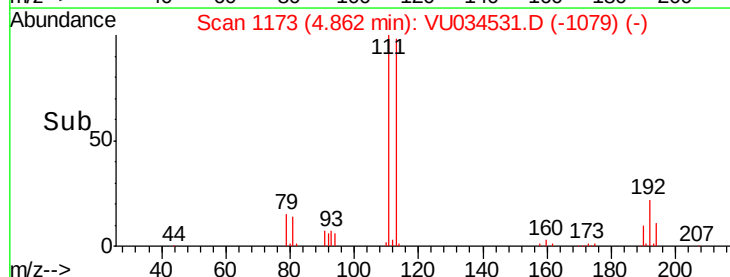
192 21.6 17.8 26.8

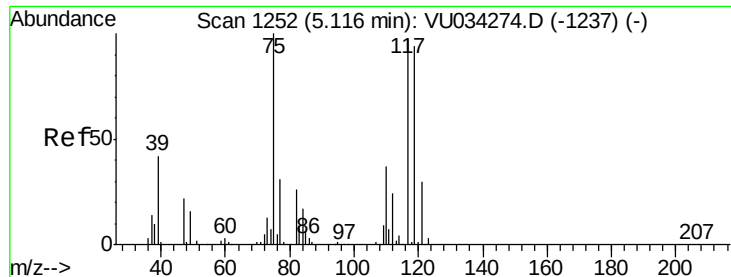


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

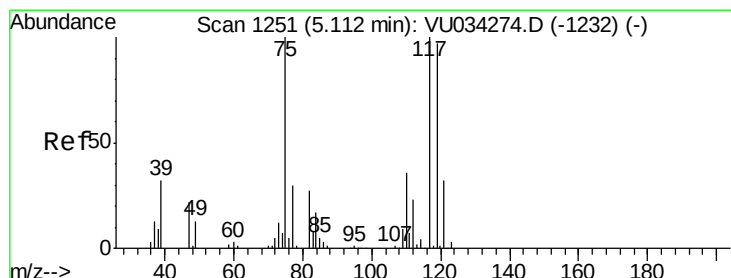
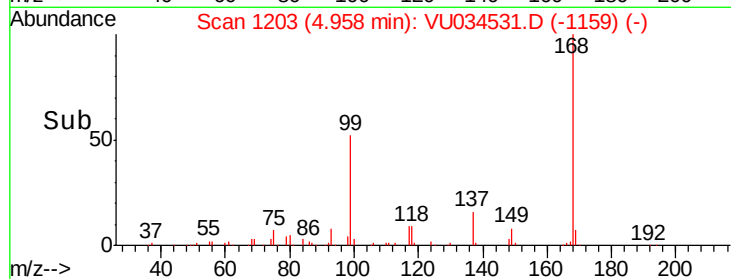
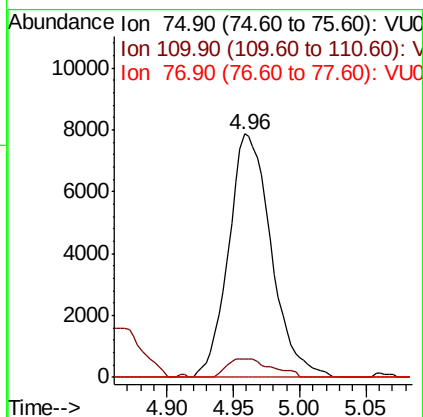
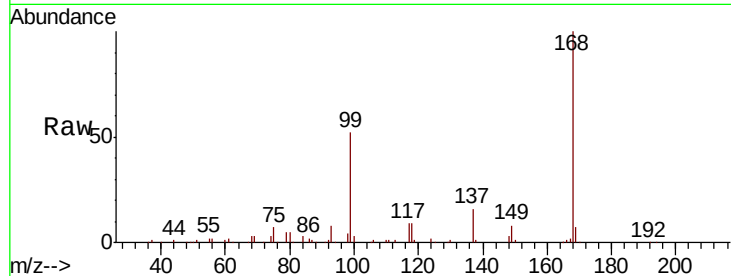




#36
 1,1-Dichloropropene
 Concen: 4.309 ug/l
 RT: 4.96 min Scan# 1203
 Delta R.T. -0.16 min
 Lab File: VU034531.D
 Acq: 12 Sep 2019 19:33

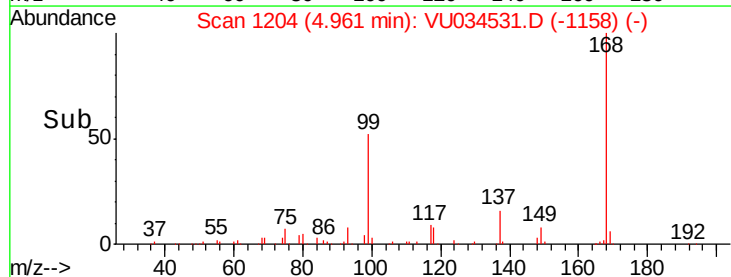
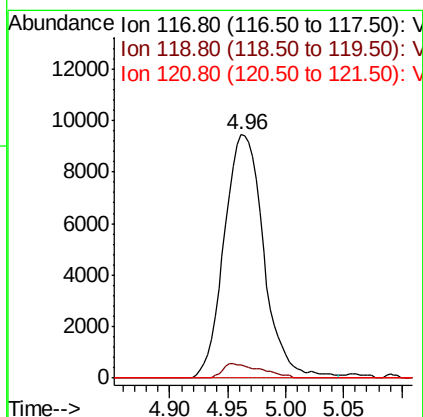
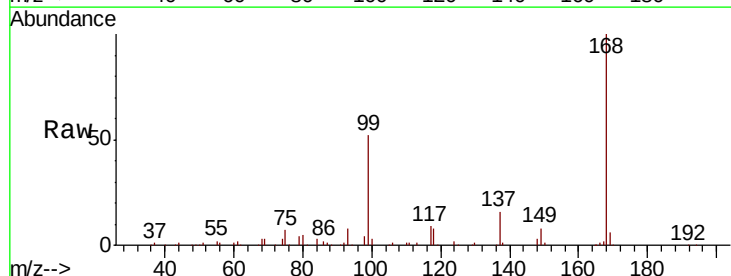
Instrument :
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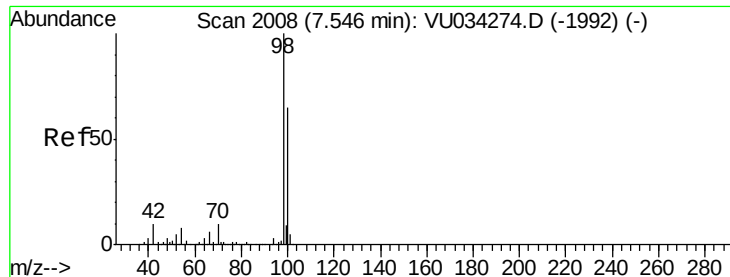
Tgt Ion: 75 Resp: 17596
 Ion Ratio Lower Upper
 75 100
 110 7.8 18.3 54.9#
 77 0.0 24.9 37.3#



#38
 Carbon Tetrachloride
 Concen: 5.116 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034531.D
 Acq: 12 Sep 2019 19:33

Tgt Ion: 117 Resp: 22307
 Ion Ratio Lower Upper
 117 100
 119 5.2 77.8 116.6#
 121 0.0 25.2 37.8#

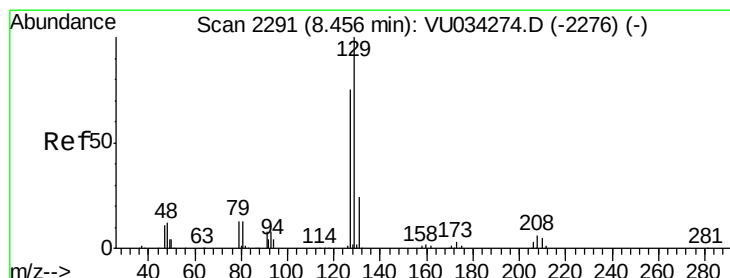
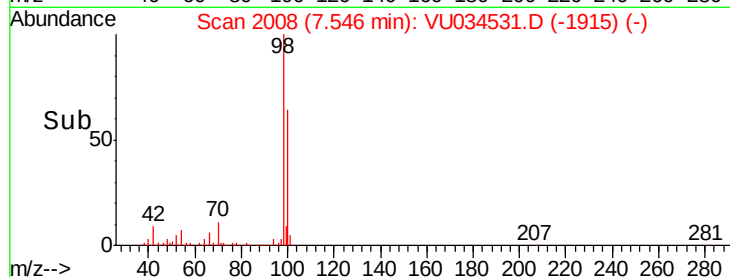
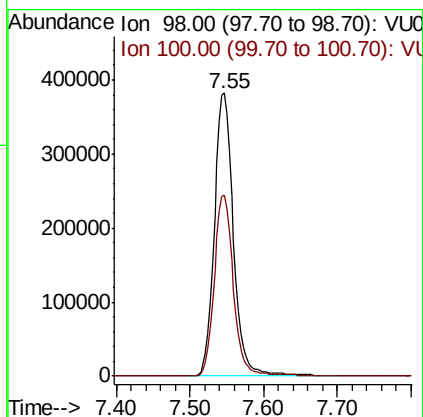
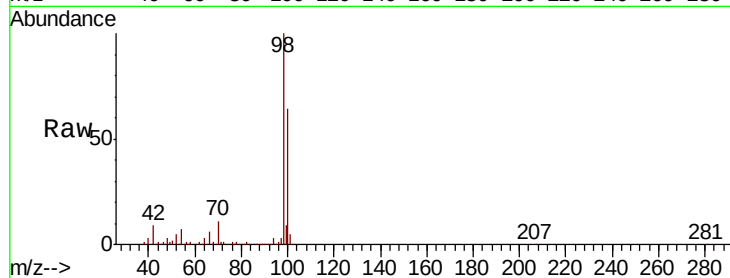




#50
Toluene-d8
Concen: 52.138 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034531.D
Acq: 12 Sep 2019 19:33

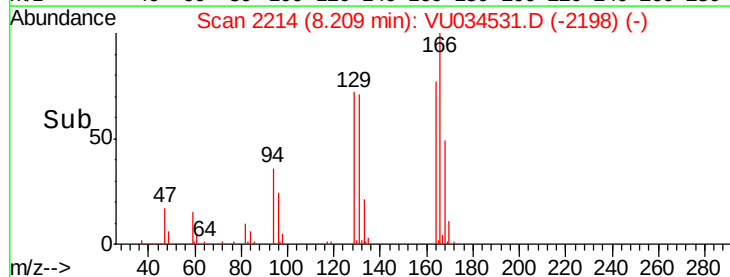
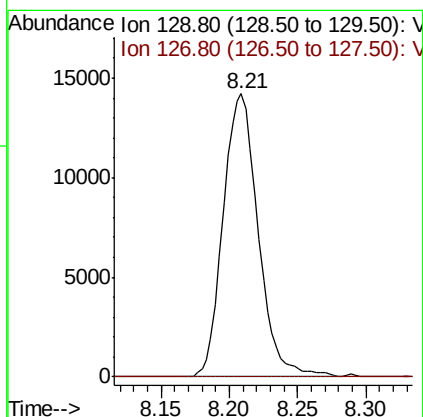
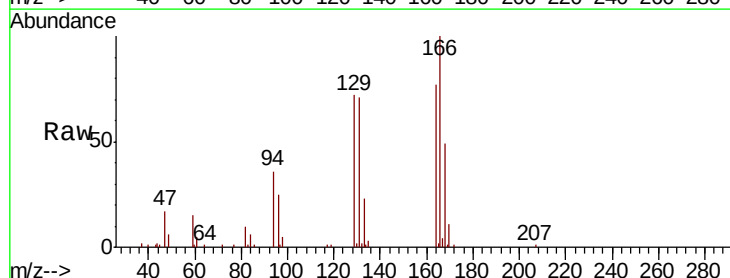
Instrument :
MSVOA_U
ClientSampleId :
CPA-CPMW11S-M27W1-090319

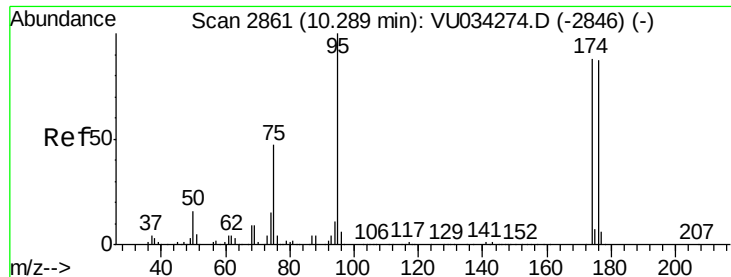
Tgt Ion: 98 Resp: 686276
Ion Ratio Lower Upper
98 100
100 63.6 51.7 77.5



#60
Dibromochloromethane
Concen: 6.289 ug/l
RT: 8.21 min Scan# 2214
Delta R.T. -0.25 min
Lab File: VU034531.D
Acq: 12 Sep 2019 19:33

Tgt Ion: 129 Resp: 25318
Ion Ratio Lower Upper
129 100
127 0.0 37.9 113.7#





#62

4-Bromofluorobenzene

Concen: 45.301 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VU034531.D

Acq: 12 Sep 2019 19:33

Instrument :

MSVOA_U

ClientSampleId :

CPA-CPMW11S-M27W1-090319

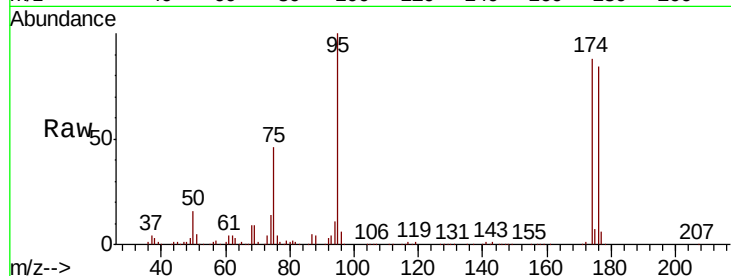
Tgt Ion: 95 Resp: 230222

Ion Ratio Lower Upper

95 100

174 90.5 0.0 175.2

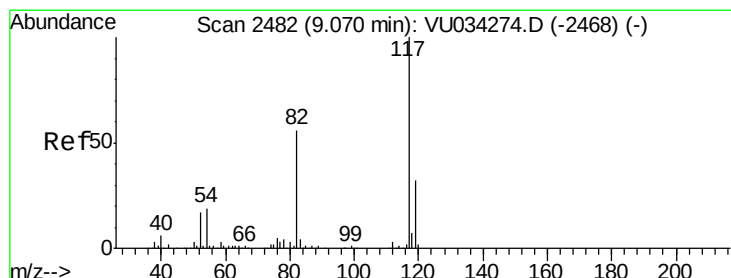
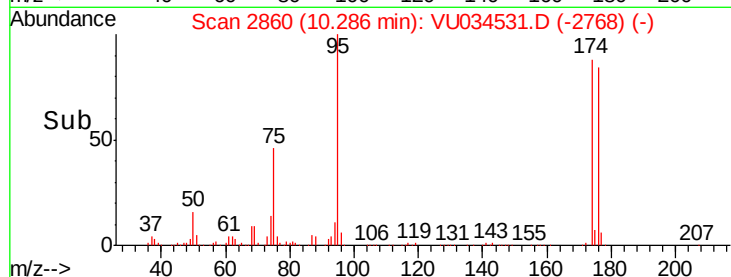
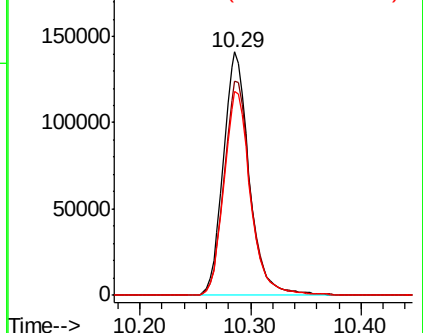
176 85.9 0.0 168.0



Abundance Ion 94.90 (94.60 to 95.60): VU034531.D (-2846) (-)

Ion 173.80 (173.50 to 174.50): VU034531.D (-2846) (-)

Ion 175.80 (175.50 to 176.50): VU034531.D (-2846) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2482

Delta R.T. 0.00 min

Lab File: VU034531.D

Acq: 12 Sep 2019 19:33

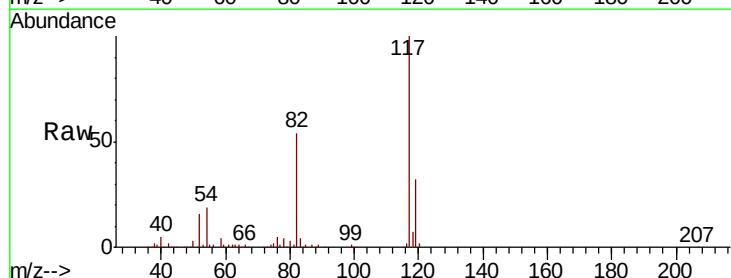
Tgt Ion: 117 Resp: 387557

Ion Ratio Lower Upper

117 100

82 53.8 44.6 67.0

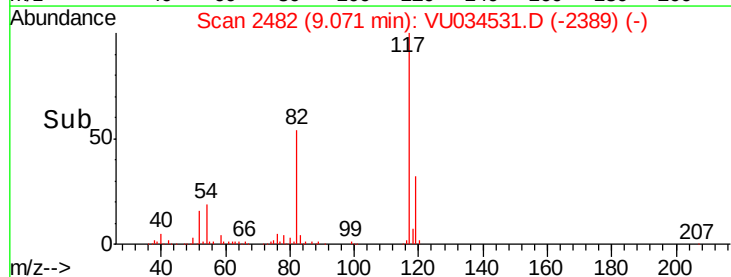
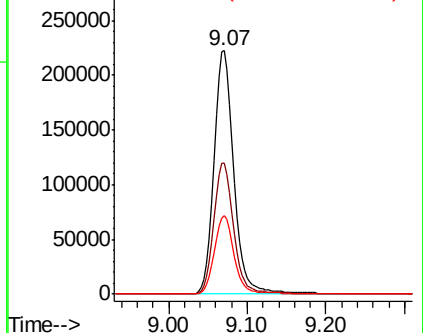
119 32.4 25.9 38.9

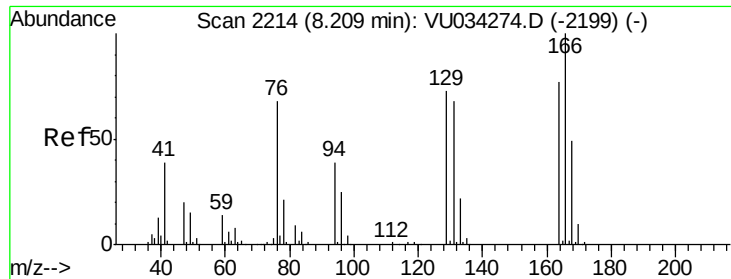


Abundance Ion 116.90 (116.60 to 117.60): VU034531.D (-2389) (-)

Ion 82.00 (81.70 to 82.70): VU034531.D (-2389) (-)

Ion 118.90 (118.60 to 119.60): VU034531.D (-2389) (-)





#64

Tetrachloroethene

Concen: 8.094 ug/l

RT: 8.21 min Scan# 2214

Delta R.T. 0.00 min

Lab File: VU034531.D

Acq: 12 Sep 2019 19:33

Instrument :

MSVOA_U

ClientSampleId :

CPA-CPMW11S-M27W1-090319

Tgt Ion:164 Resp: 27213

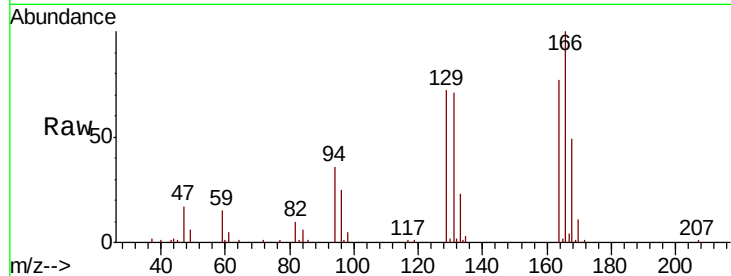
Ion Ratio Lower Upper

164 100

166 129.6 103.7 155.5

129 93.4 75.8 113.8

131 92.1 70.7 106.1

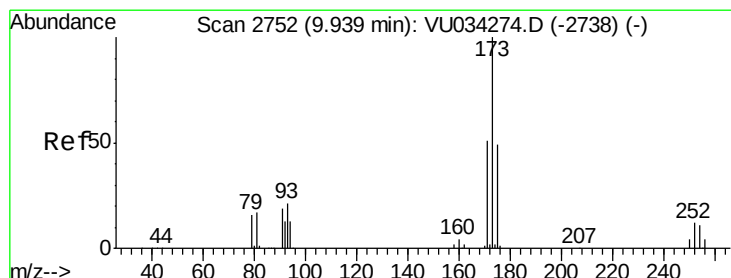
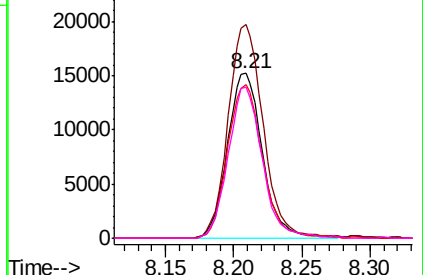
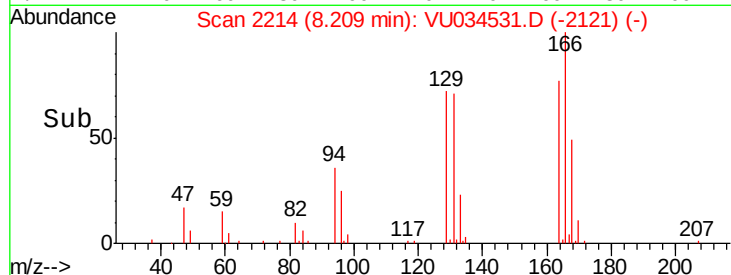


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#71

Bromoform

Concen: 0.795 ug/l

RT: 9.94 min Scan# 2752

Delta R.T. 0.00 min

Lab File: VU034531.D

Acq: 12 Sep 2019 19:33

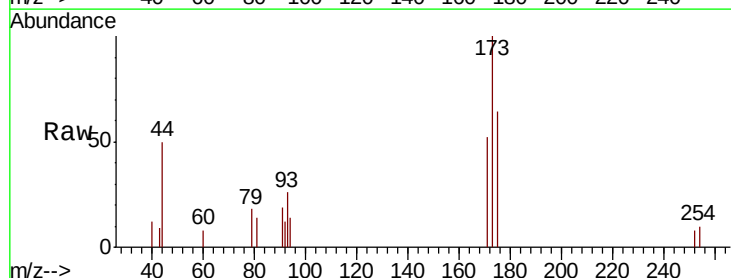
Tgt Ion:173 Resp: 2587

Ion Ratio Lower Upper

173 100

175 55.4 24.4 73.2

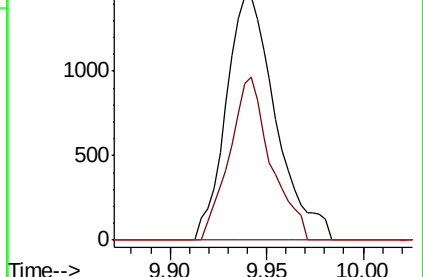
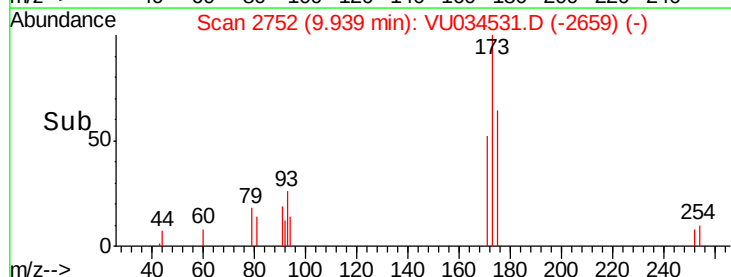
254 0.0 0.0 0.0

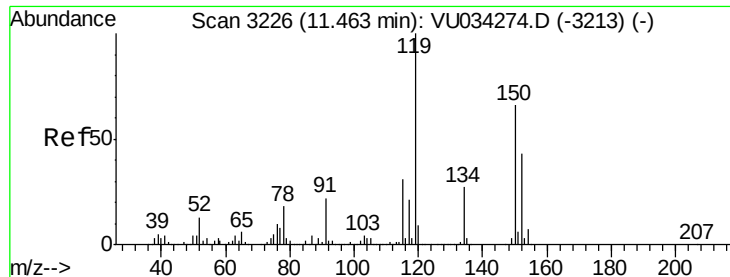


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): 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: VU034531.D

Acq: 12 Sep 2019 19:33

Instrument :

MSVOA_U

ClientSampleId :

CPA-CPMW11S-M27W1-090319

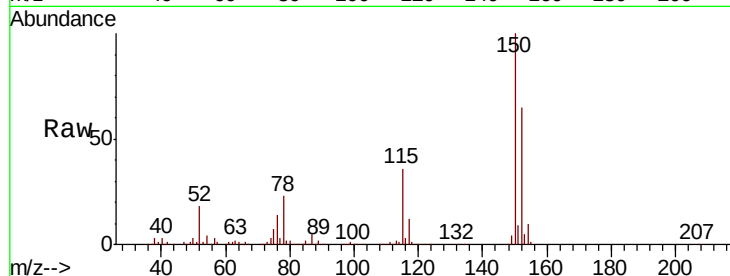
Tgt Ion:152 Resp: 223114

Ion Ratio Lower Upper

152 100

115 56.1 39.1 117.3

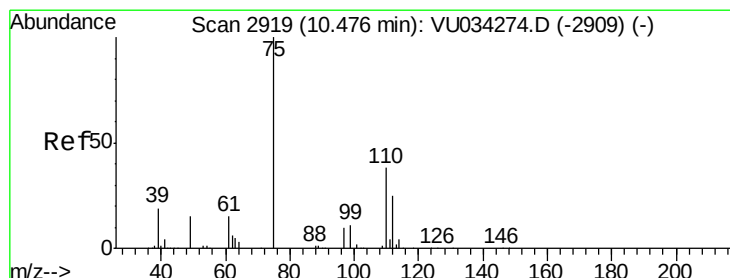
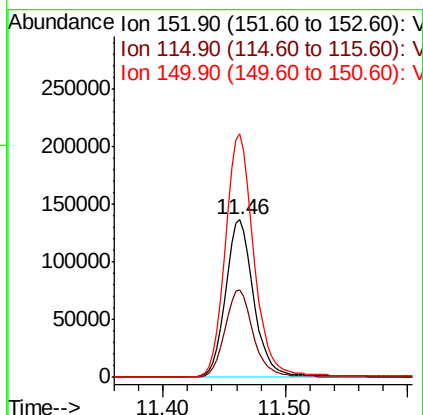
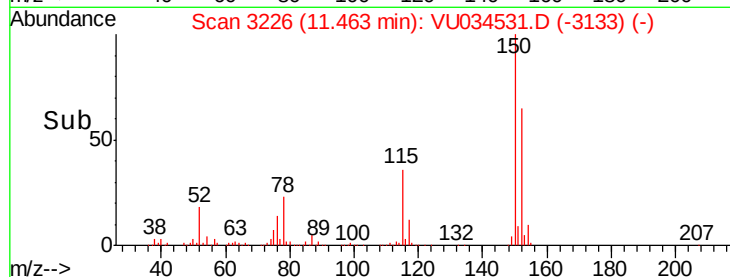
150 157.6 0.0 345.4



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: 21.989 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.19 min

Lab File: VU034531.D

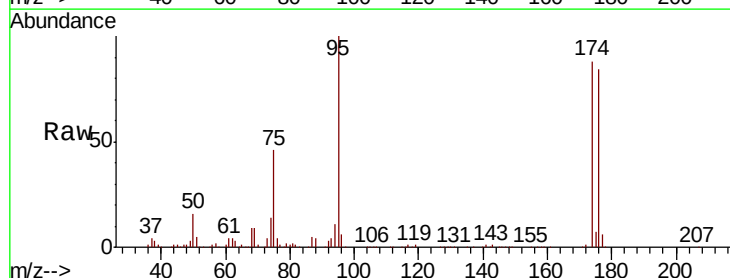
Acq: 12 Sep 2019 19:33

Tgt Ion: 75 Resp: 107090

Ion Ratio Lower Upper

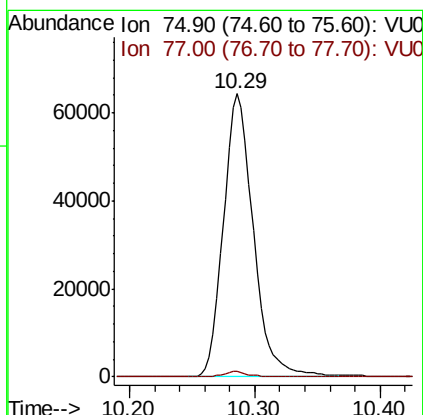
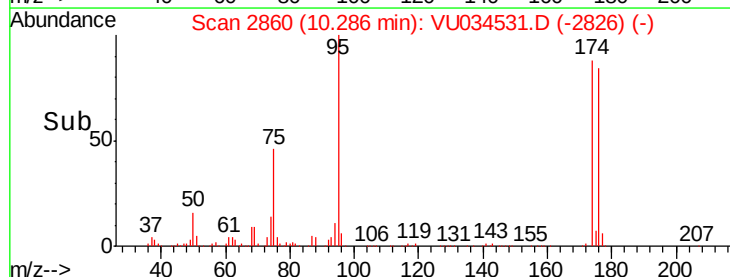
75 100

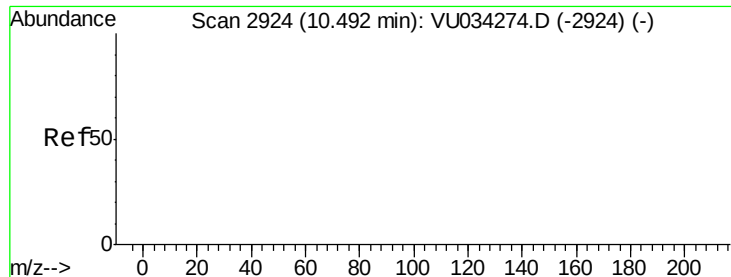
77 1.5 20.8 62.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

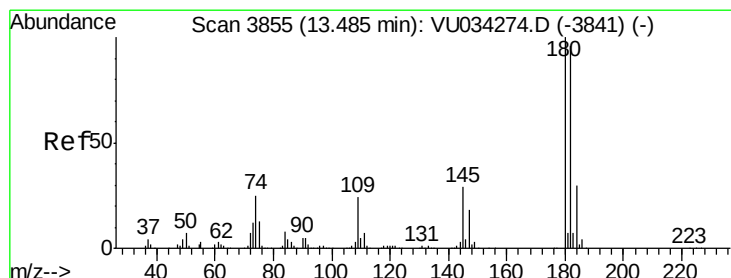
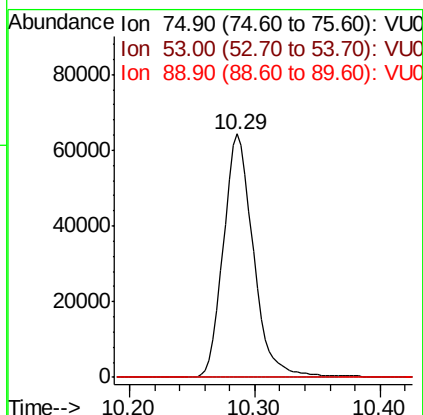
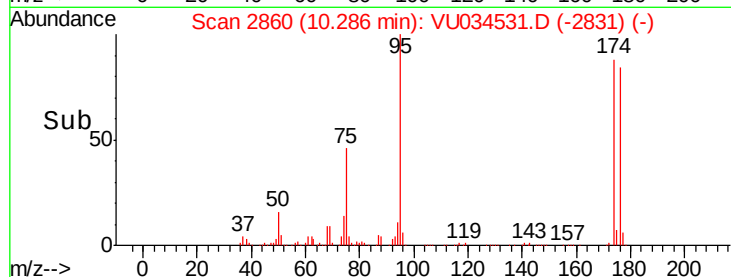
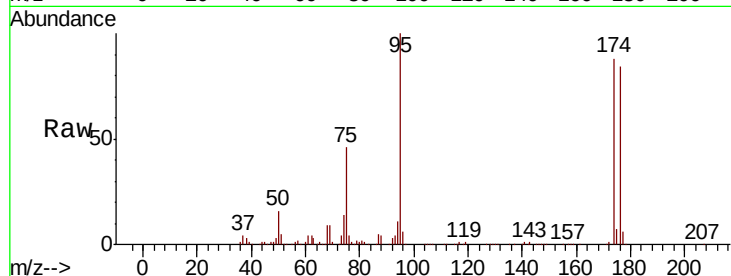




#81
trans-1,4-Dichloro-2-butene
Concen: 73.947 ug/l
RT: 10.29 min Scan# 2860
Delta R.T. -0.21 min
Lab File: VU034531.D
Acq: 12 Sep 2019 19:33

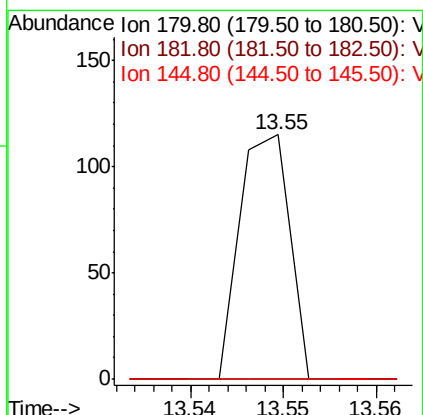
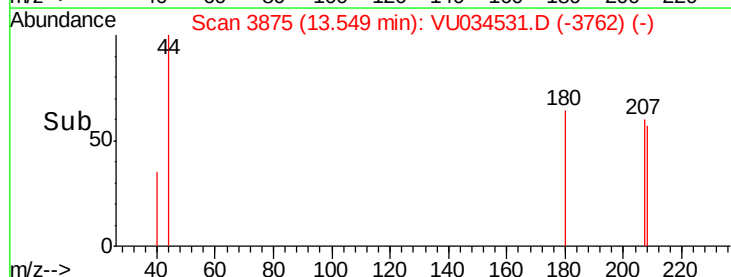
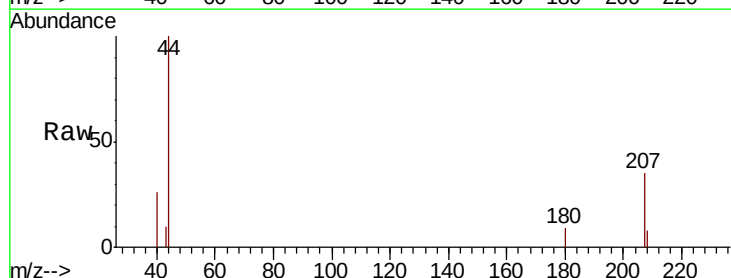
Instrument :
MSVOA_U
ClientSampleId :
CPA-CPMW11S-M27W1-090319

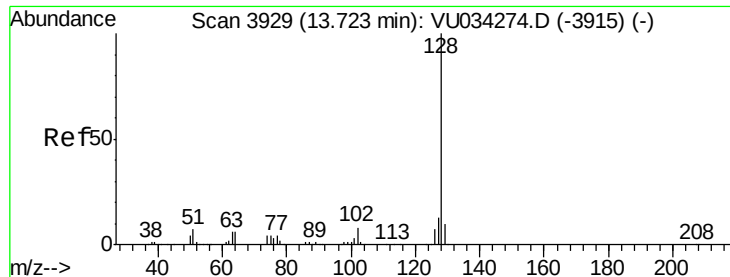
Tgt Ion: 75 Resp: 107090
Ion Ratio Lower Upper
75 100
53 0.1 0.0 0.0#
89 0.0 0.0 0.0



#93
1,2,4-Trichlorobenzene
Concen: 3.459 ug/l
RT: 13.55 min Scan# 3875
Delta R.T. 0.06 min
Lab File: VU034531.D
Acq: 12 Sep 2019 19:33

Tgt Ion: 180 Resp: 43
Ion Ratio Lower Upper
180 100
182 0.0 47.9 143.8#
145 0.0 14.4 43.0#

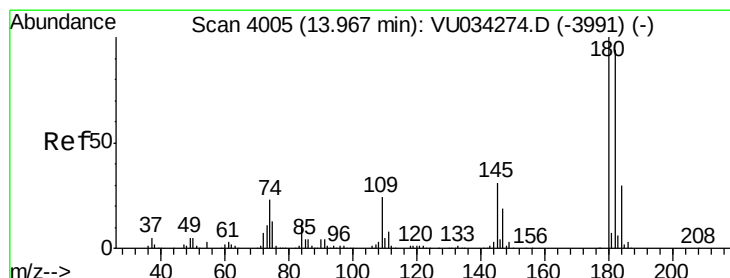
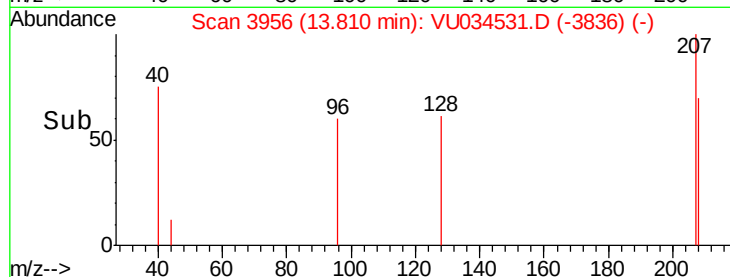
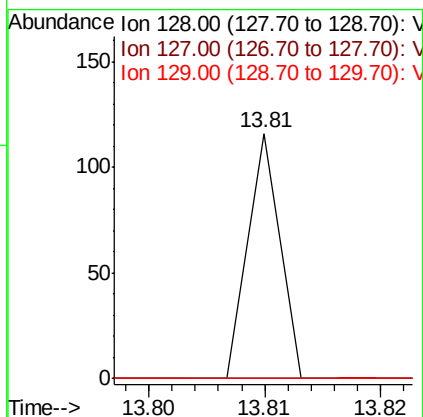
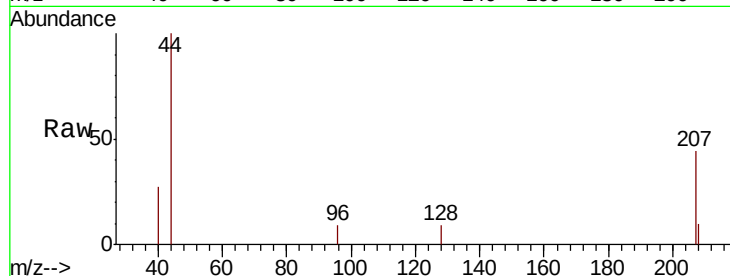




#95
Naphthalene
Concen: 3.967 ug/l
RT: 13.81 min Scan# 3956
Delta R.T. 0.09 min
Lab File: VU034531.D
Acq: 12 Sep 2019 19:33

Instrument :
MSVOA_U
ClientSampleId :
CPA-CPMW11S-M27W1-090319

Tgt Ion:128 Resp: 22
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: 2.647 ug/l
RT: 14.00 min Scan# 4016
Delta R.T. 0.04 min
Lab File: VU034531.D
Acq: 12 Sep 2019 19:33

Tgt Ion:180 Resp: 44
Ion Ratio Lower Upper
180 100
182 0.0 48.4 145.0#
145 0.0 15.4 46.4#

