

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091219\
 Data File : VU034543.D
 Acq On : 13 Sep 2019 00:12
 Operator : JC/SP
 Sample : K4756-22
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 CPA-SW-3-M27W1-090619RE

Quant Time: Sep 13 07:15:46 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	244716	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	375819	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	378380	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	207070	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	220267	59.49	ug/l	0.00
Spiked Amount 50.000			Recovery	=	118.98%	
35) Dibromofluoromethane	4.86	113	192387	55.01	ug/l	0.00
Spiked Amount 50.000			Recovery	=	110.02%	
50) Toluene-d8	7.55	98	678540	51.65	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.30%	
62) 4-Bromofluorobenzene	10.29	95	221786	43.72	ug/l	0.00
Spiked Amount 50.000			Recovery	=	87.44%	

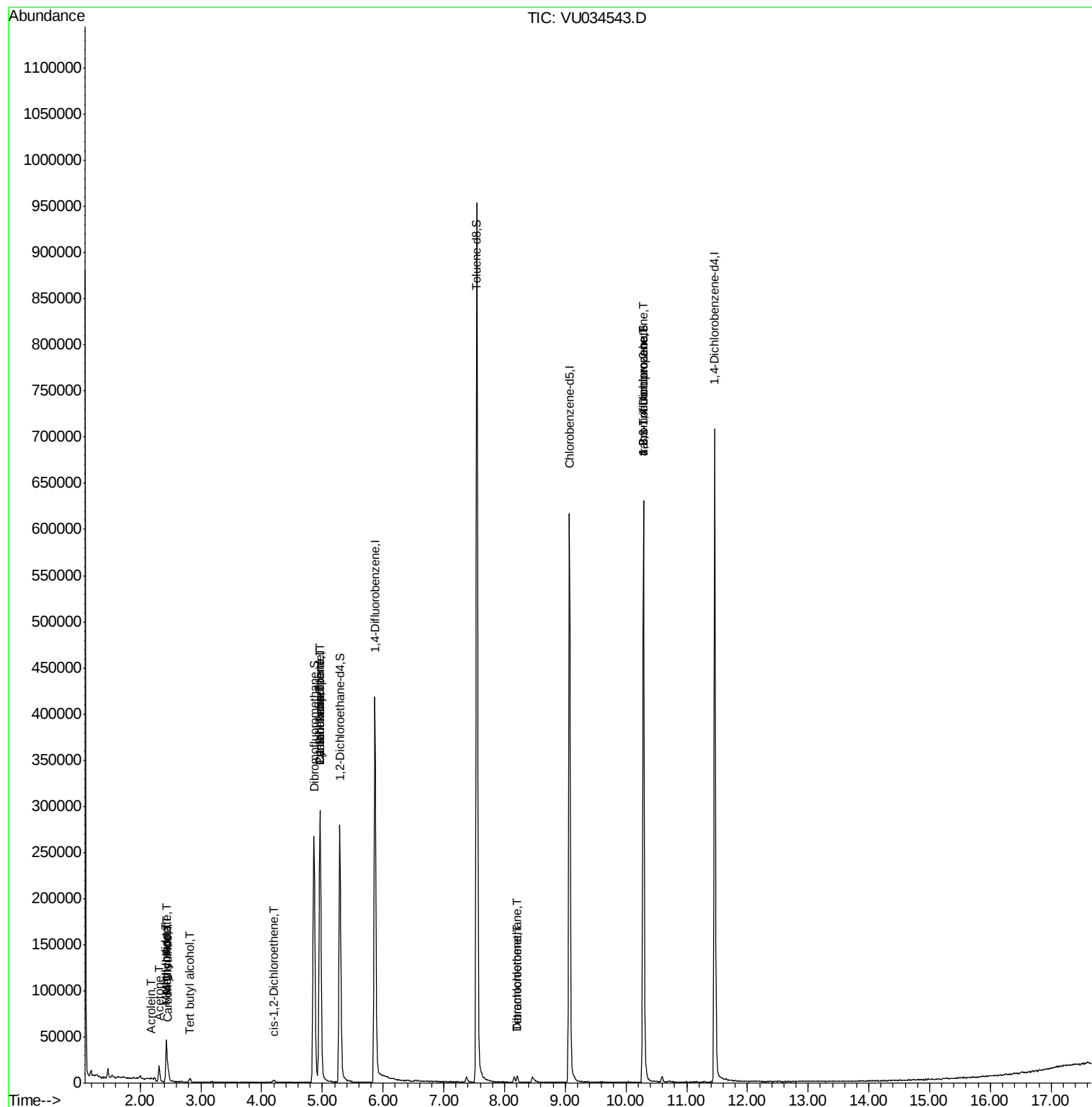
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	603	Below Cal		90
6) Chloroethane	1.69	64	335	Below Cal	#	43
10) Methyl Iodide	2.41	142	21	3.854	ug/l #	43
11) Tert butyl alcohol	2.82	59	3888	4.970	ug/l #	73
13) Acrolein	2.18	56	526	0.800	ug/l	89
14) Allyl chloride	2.43	41	4973	0.977	ug/l #	60
16) Acetone	2.31	43	18706	9.763	ug/l	98
17) Carbon Disulfide	2.47	76	9480	1.584	ug/l	98
18) Methyl Acetate	2.43	43	10925	2.343	ug/l #	52
20) Methylene Chloride	2.69	84	336	Below Cal	#	81
27) cis-1,2-Dichloroethene	4.21	96	844	0.248	ug/l	66
31) Cyclohexane	4.96	56	4137	0.954	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	17134	4.204	ug/l #	49
38) Carbon Tetrachloride	4.96	117	21799	5.009	ug/l #	17
60) Dibromochloromethane	8.21	129	1338	0.333	ug/l #	12
64) Tetrachloroethene	8.21	164	1586	0.483	ug/l #	86
76) 1,2,3-Trichloropropane	10.29	75	104594	23.140	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	104594	77.820	ug/l #	100

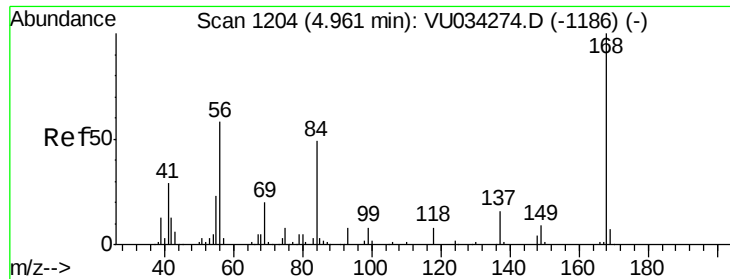
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU034543.D

Acq: 13 Sep 2019 00:12

Instrument :

MSVOA_U

ClientSampleId :

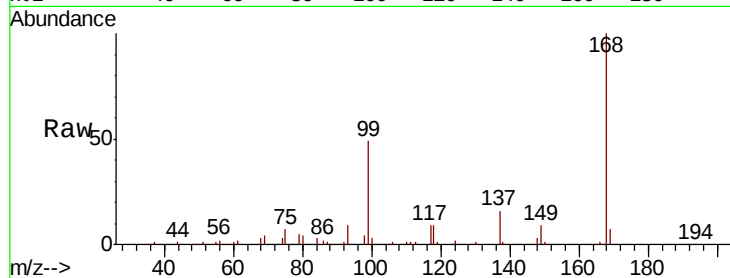
CPA-SW-3-M27W1-090619RE

Tgt Ion:168 Resp: 244716

Ion Ratio Lower Upper

168 100

99 49.1 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

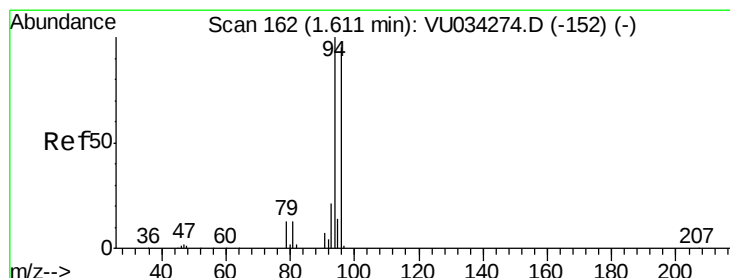
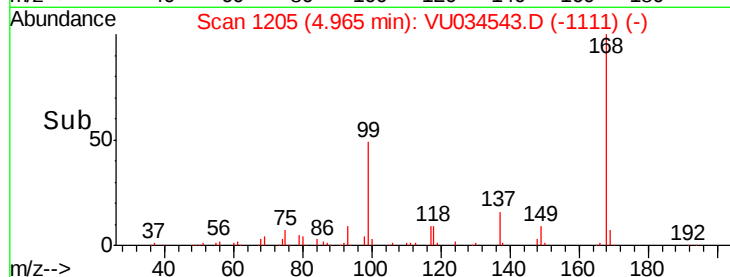
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 169

Delta R.T. 0.02 min

Lab File: VU034543.D

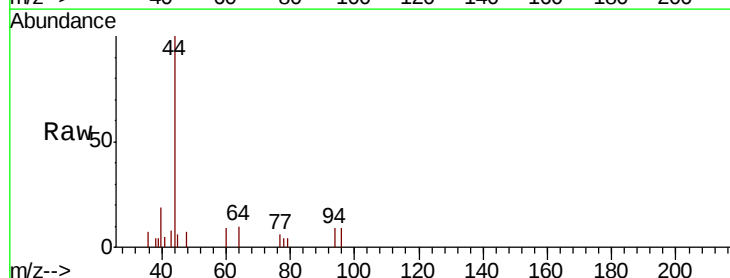
Acq: 13 Sep 2019 00:12

Tgt Ion: 94 Resp: 603

Ion Ratio Lower Upper

94 100

96 104.0 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

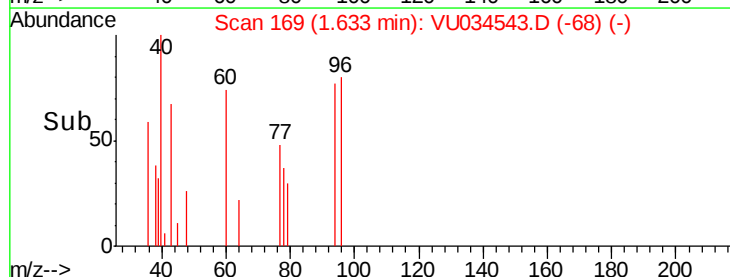
300

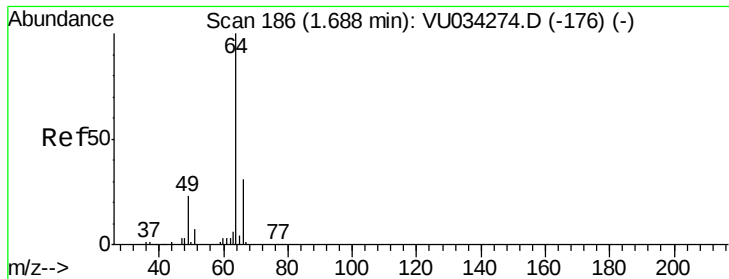
200

100

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 188

Delta R.T. 0.01 min

Lab File: VU034543.D

Acq: 13 Sep 2019 00:12

Instrument :

MSVOA_U

ClientSampleId :

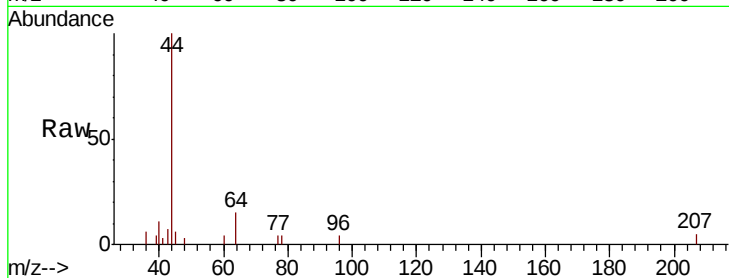
CPA-SW-3-M27W1-090619RE

Tgt Ion: 64 Resp: 335

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

500

400

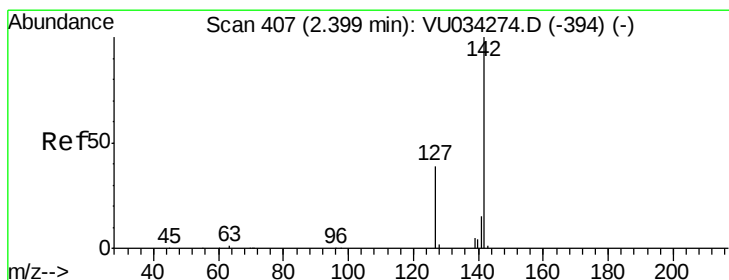
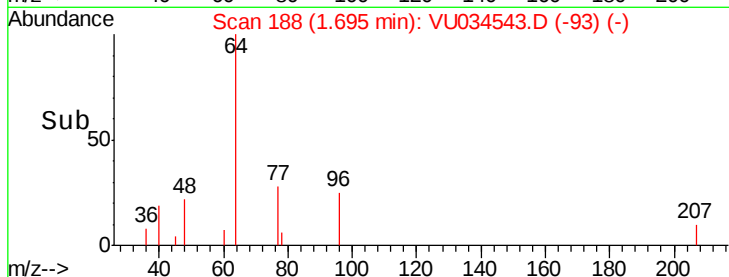
300

200

100

0

Time-->



#10

Methyl Iodide

Concen: 3.854 ug/l

RT: 2.41 min Scan# 412

Delta R.T. 0.02 min

Lab File: VU034543.D

Acq: 13 Sep 2019 00:12

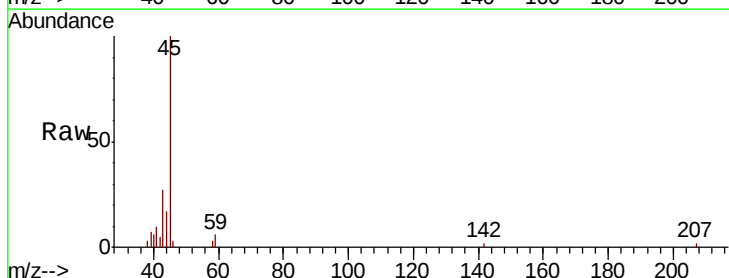
Tgt Ion: 142 Resp: 21

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) (-)

2.41

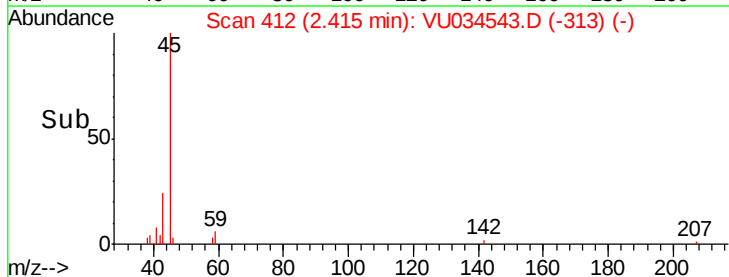
150

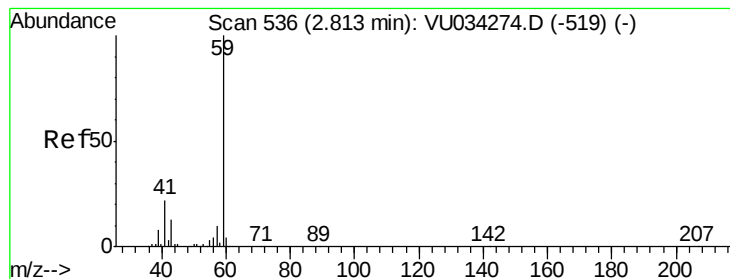
100

50

0

Time-->





#11

Tert butyl alcohol

Concen: 4.970 ug/l

RT: 2.82 min Scan# 538

Delta R.T. 0.01 min

Lab File: VU034543.D

Acq: 13 Sep 2019 00:12

Instrument :

MSVOA_U

ClientSampleId :

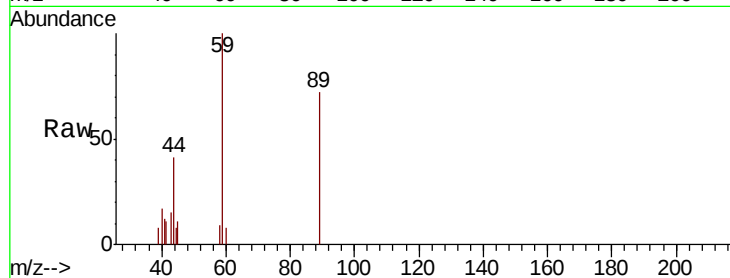
CPA-SW-3-M27W1-090619RE

Tgt Ion: 59 Resp: 3888

Ion Ratio Lower Upper

59 100

57 0.0 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) (-)

2.82

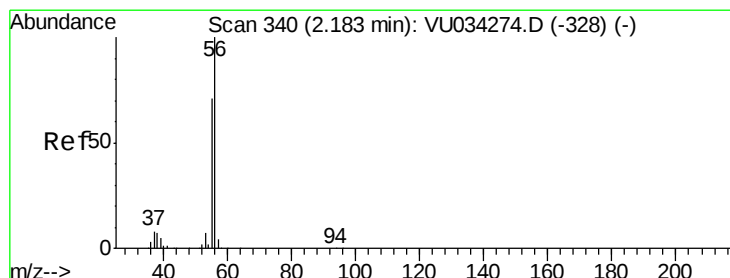
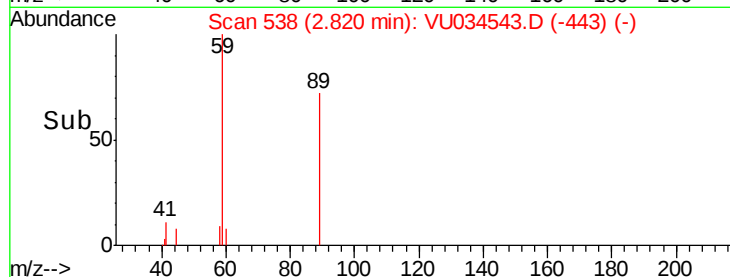
1500

1000

500

0

Time--> 2.75 2.80 2.85



#13

Acrolein

Concen: 0.800 ug/l

RT: 2.18 min Scan# 340

Delta R.T. 0.00 min

Lab File: VU034543.D

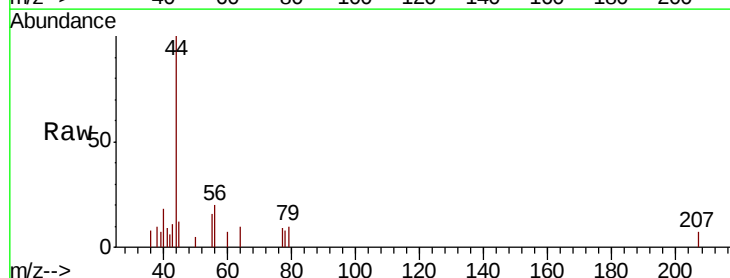
Acq: 13 Sep 2019 00:12

Tgt Ion: 56 Resp: 526

Ion Ratio Lower Upper

56 100

55 81.0 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) (-)

2.18

400

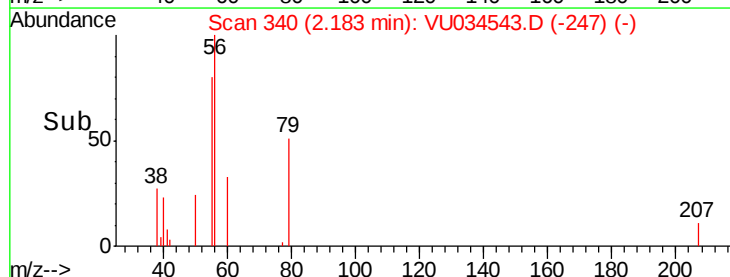
300

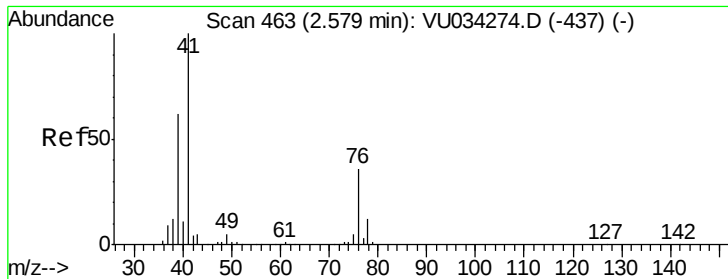
200

100

0

Time--> 2.14 2.16 2.18 2.20 2.22





#14

Allyl chloride

Concen: 0.977 ug/l

RT: 2.43 min Scan# 418

Delta R.T. -0.14 min

Lab File: VU034543.D

Acq: 13 Sep 2019 00:12

Instrument :

MSVOA_U

ClientSampleId :

CPA-SW-3-M27W1-090619RE

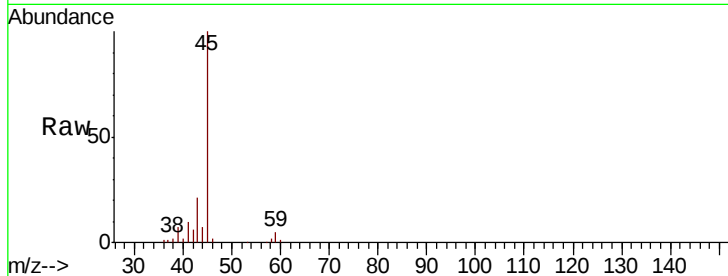
Tgt Ion: 41 Resp: 4973

Ion Ratio Lower Upper

41 100

39 74.7 43.5 65.3#

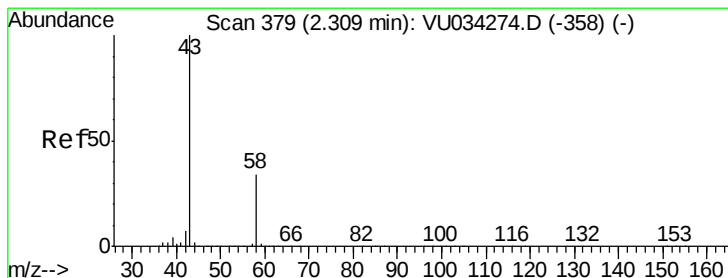
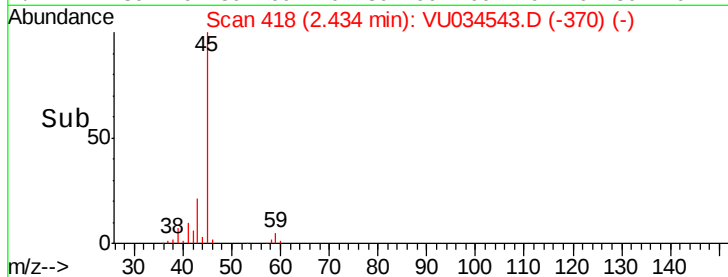
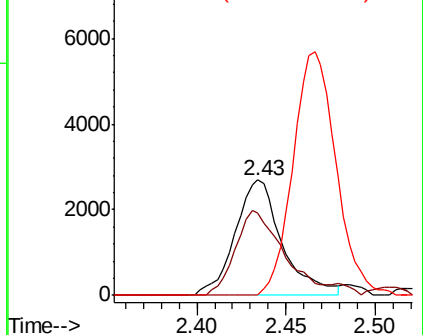
76 0.0 27.0 40.6#



Abundance Ion 41.00 (40.70 to 41.70): VU034274.D (-437) (-)

Ion 39.00 (38.70 to 39.70): VU034274.D (-437) (-)

Ion 75.90 (75.60 to 76.60): VU034274.D (-437) (-)



#16

Acetone

Concen: 9.763 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034543.D

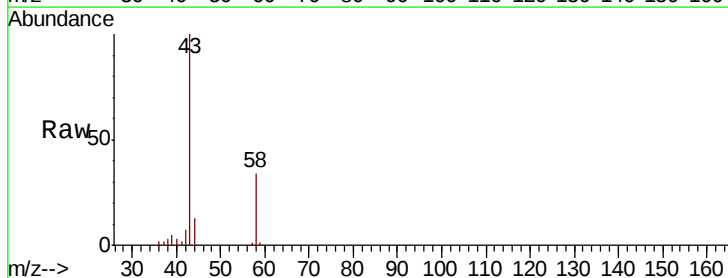
Acq: 13 Sep 2019 00:12

Tgt Ion: 43 Resp: 18706

Ion Ratio Lower Upper

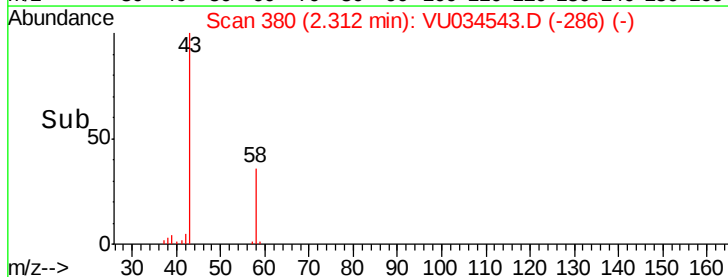
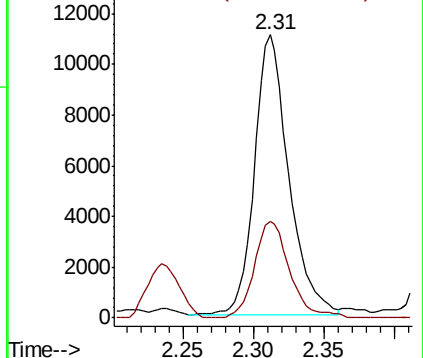
43 100

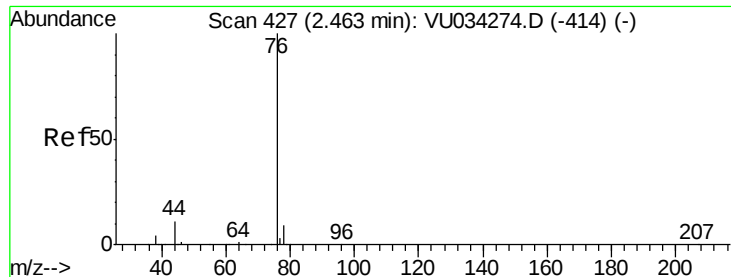
58 33.2 27.6 41.4



Abundance Ion 43.00 (42.70 to 43.70): VU034274.D (-358) (-)

Ion 58.00 (57.70 to 58.70): VU034274.D (-358) (-)

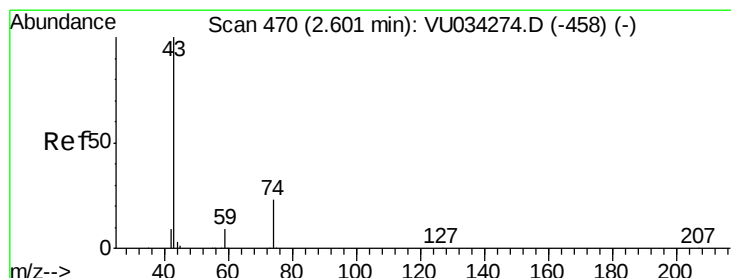
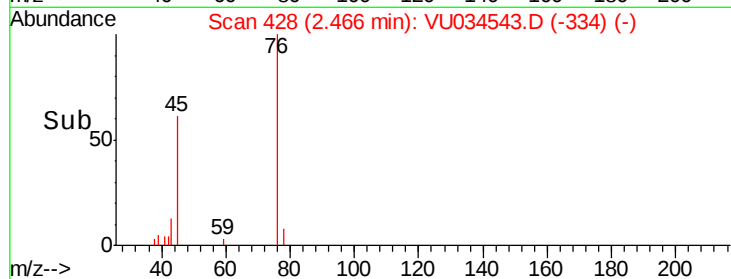
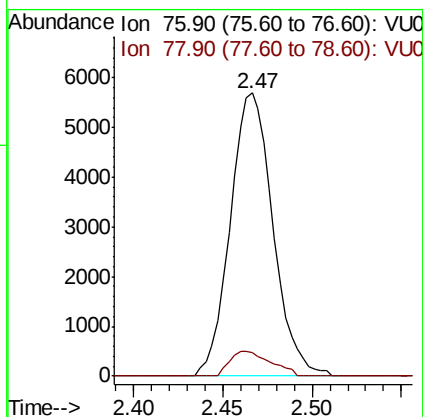
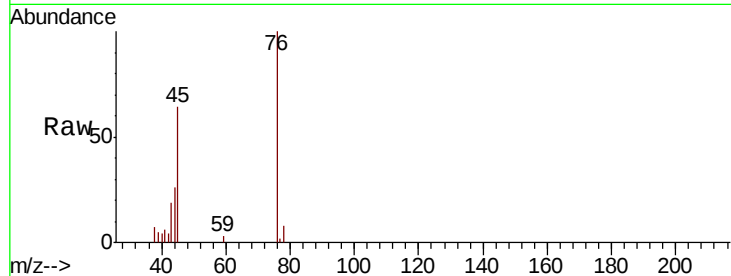




#17
Carbon Disulfide
Concen: 1.584 ug/l
RT: 2.47 min Scan# 428
Delta R.T. 0.00 min
Lab File: VU034543.D
Acq: 13 Sep 2019 00:12

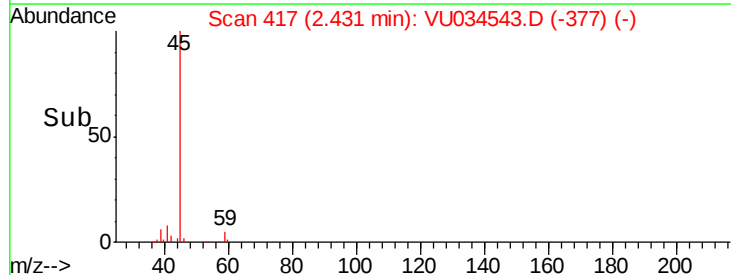
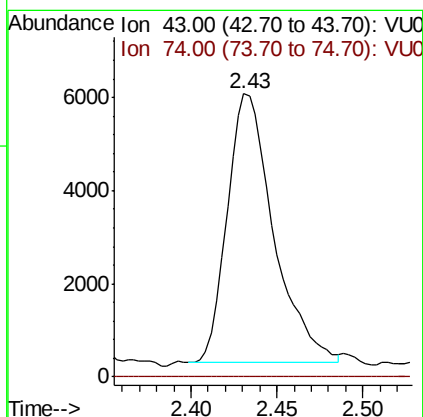
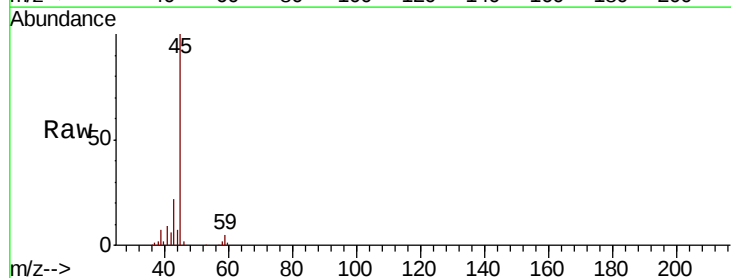
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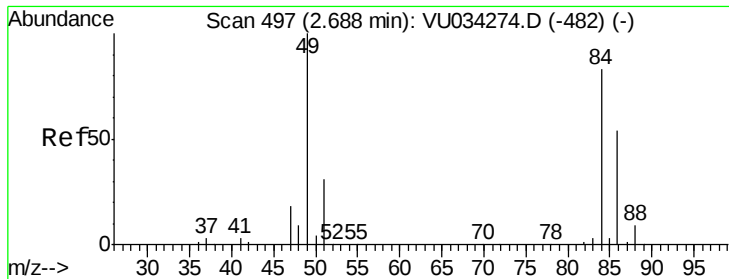
Tgt Ion: 76 Resp: 9480
Ion Ratio Lower Upper
76 100
78 8.2 7.2 10.8



#18
Methyl Acetate
Concen: 2.343 ug/l
RT: 2.43 min Scan# 417
Delta R.T. -0.17 min
Lab File: VU034543.D
Acq: 13 Sep 2019 00:12

Tgt Ion: 43 Resp: 10925
Ion Ratio Lower Upper
43 100
74 0.0 18.9 28.3#

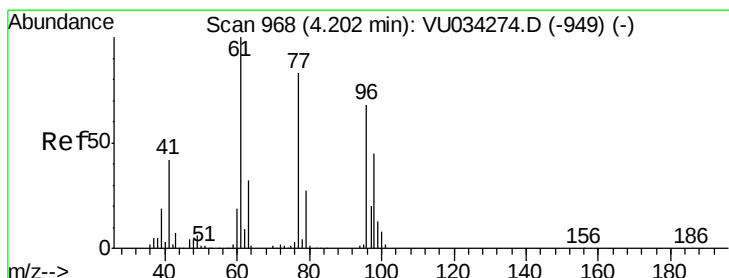
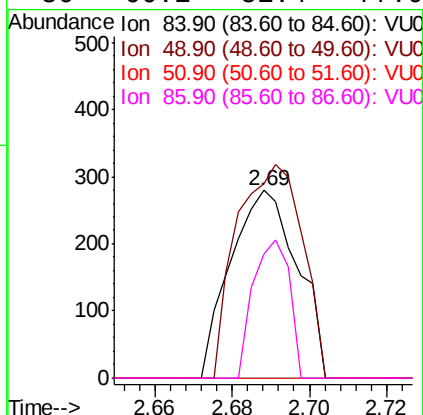
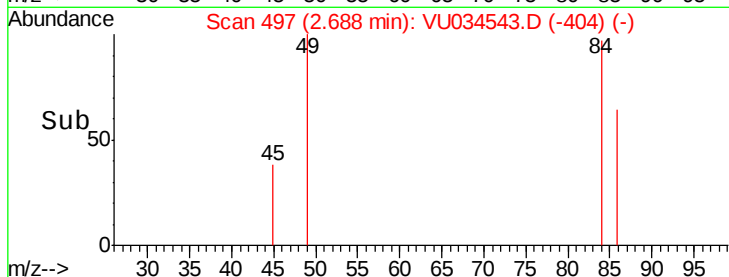
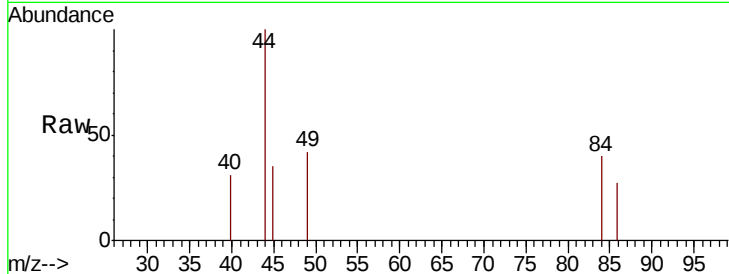




#20
Methylene Chloride
Concen: Below Cal
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU034543.D
Acq: 13 Sep 2019 00:12

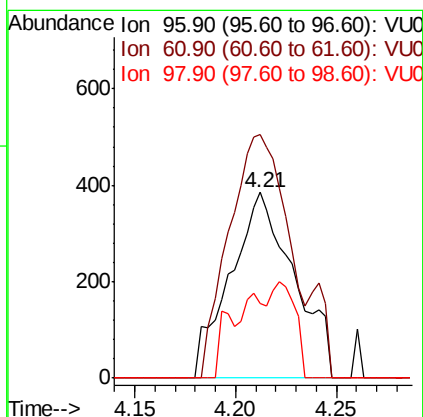
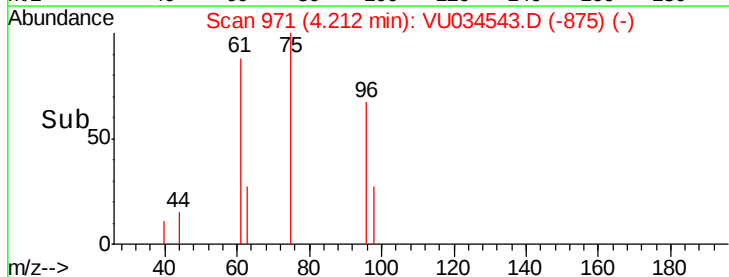
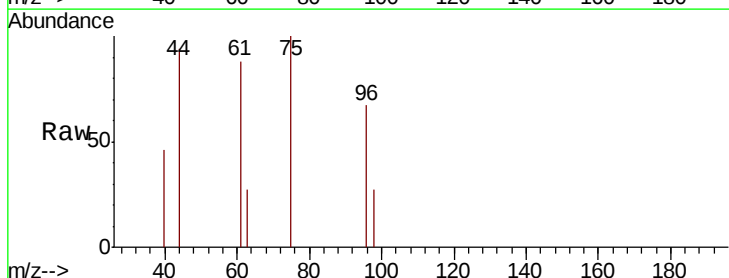
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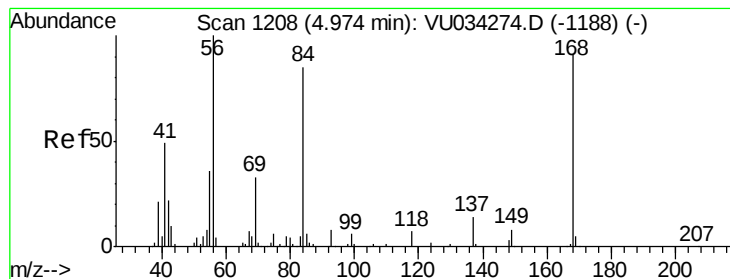
Tgt Ion: 84 Resp: 336
Ion Ratio Lower Upper
84 100
49 103.6 96.0 144.0
51 0.0 30.0 45.0#
86 66.1 51.4 77.0



#27
cis-1,2-Dichloroethene
Concen: 0.248 ug/l
RT: 4.21 min Scan# 971
Delta R.T. 0.01 min
Lab File: VU034543.D
Acq: 13 Sep 2019 00:12

Tgt Ion: 96 Resp: 844
Ion Ratio Lower Upper
96 100
61 121.1 0.0 297.4
98 17.4 0.0 130.0





#31

Cyclohexane

Concen: 0.954 ug/l

RT: 4.96 min Scan# 1203

Delta R.T. -0.02 min

Lab File: VU034543.D

Acq: 13 Sep 2019 00:12

Instrument :

MSVOA_U

ClientSampleId :

CPA-SW-3-M27W1-090619RE

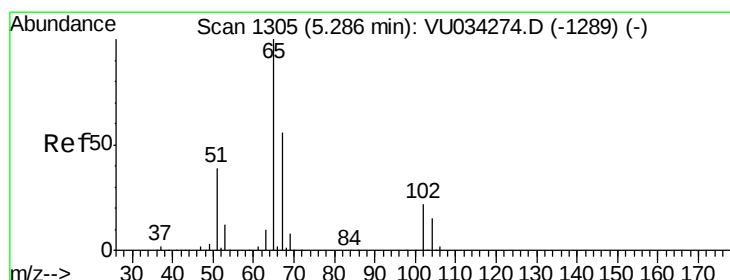
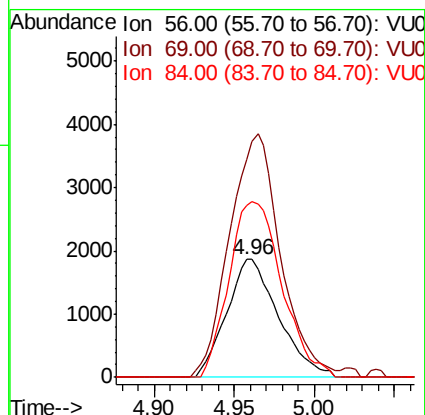
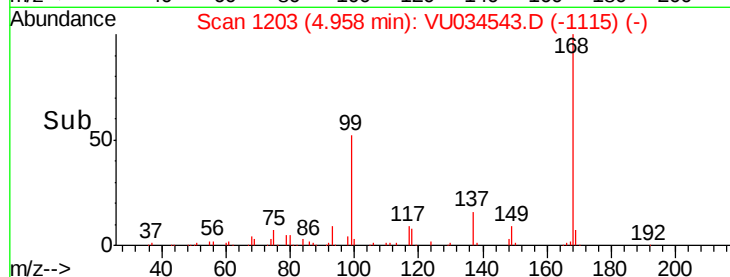
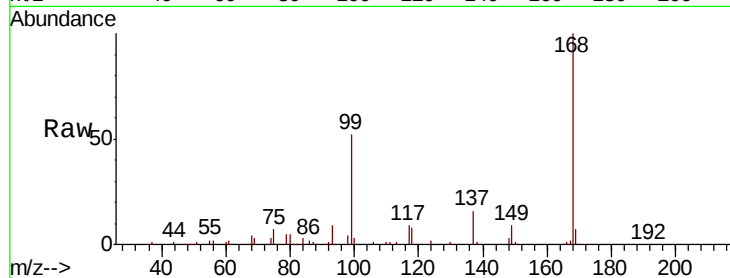
Tgt Ion: 56 Resp: 4137

Ion Ratio Lower Upper

56 100

69 184.4 26.7 40.1#

84 146.2 68.2 102.4#



#33

1,2-Dichloroethane-d4

Concen: 59.489 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034543.D

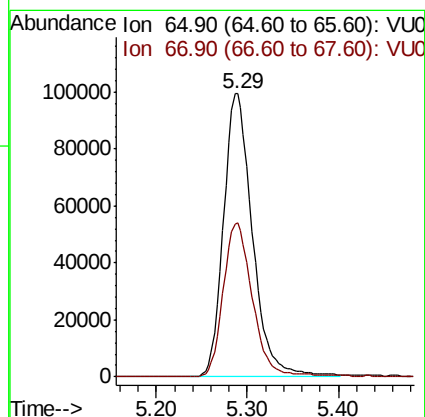
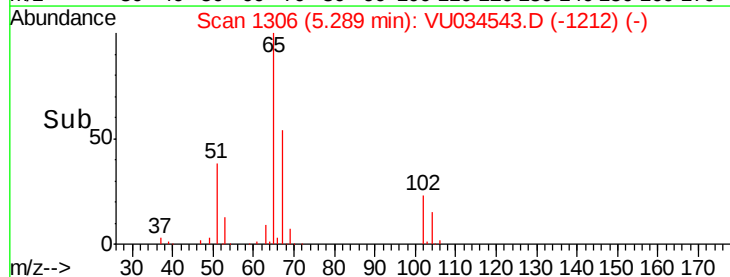
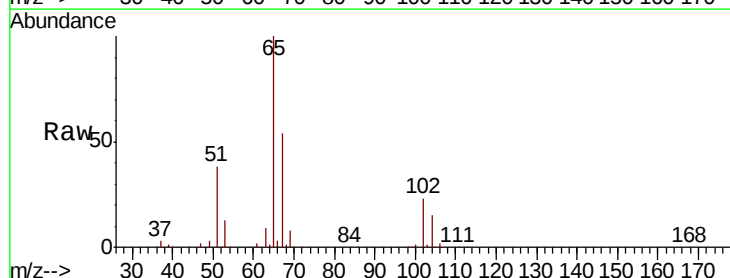
Acq: 13 Sep 2019 00:12

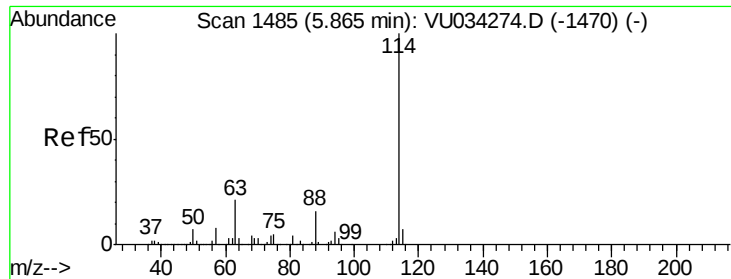
Tgt Ion: 65 Resp: 220267

Ion Ratio Lower Upper

65 100

67 54.8 0.0 112.4

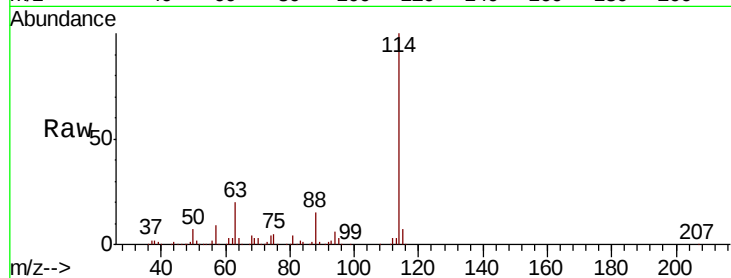




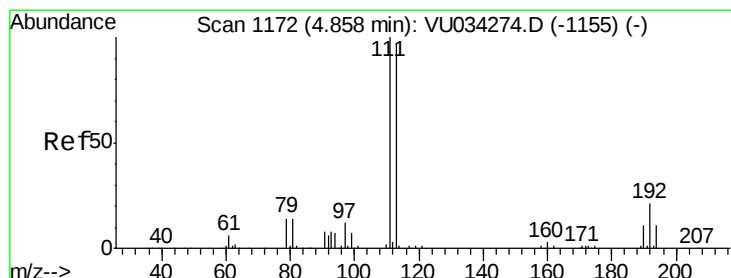
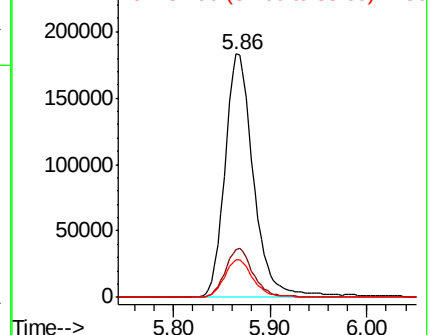
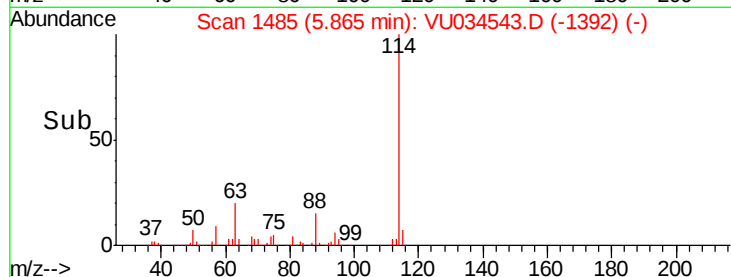
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.86 min Scan# 1485
 Delta R.T. 0.00 min
 Lab File: VU034543.D
 Acq: 13 Sep 2019 00:12

Instrument :
 MSVOA_U
 ClientSampleId :
 CPA-SW-3-M27W1-090619RE

Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	42.4
88	15.2	0.0	32.4

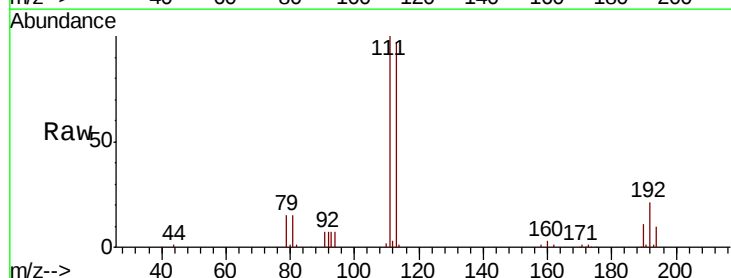


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

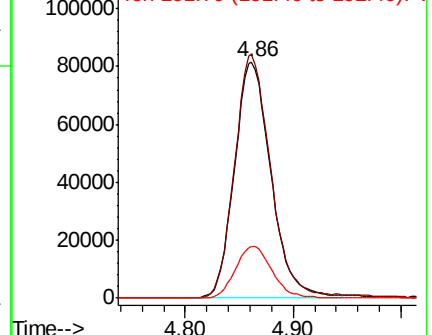
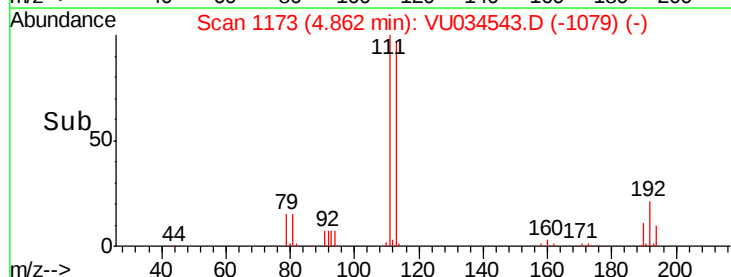


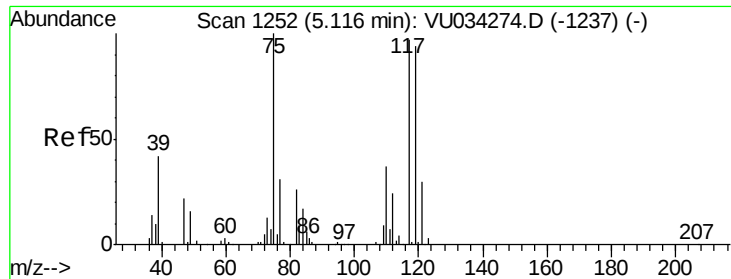
#35
 Dibromofluoromethane
 Concen: 55.015 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034543.D
 Acq: 13 Sep 2019 00:12

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.7	81.5	122.3
192	22.1	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

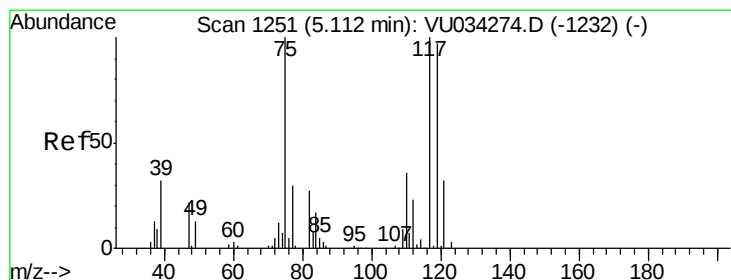
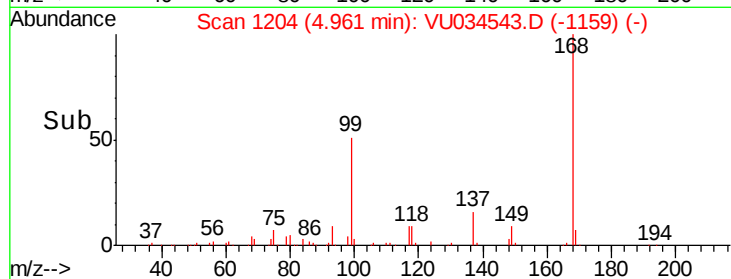
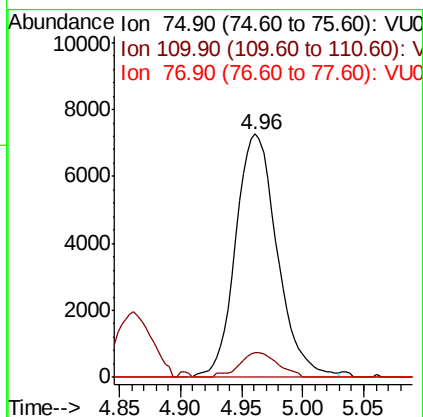
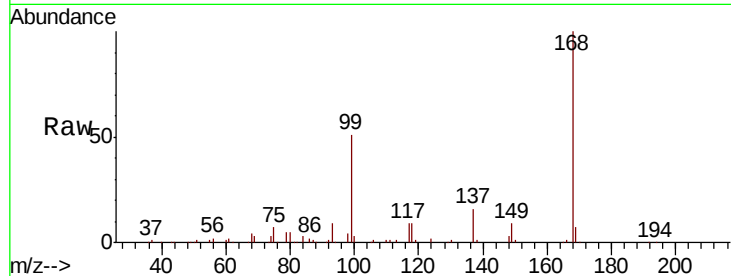




#36
 1,1-Dichloropropene
 Concen: 4.204 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034543.D
 Acq: 13 Sep 2019 00:12

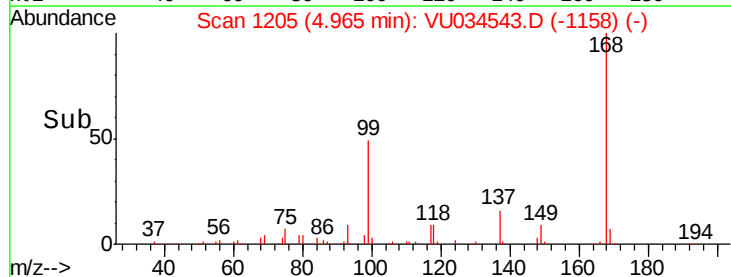
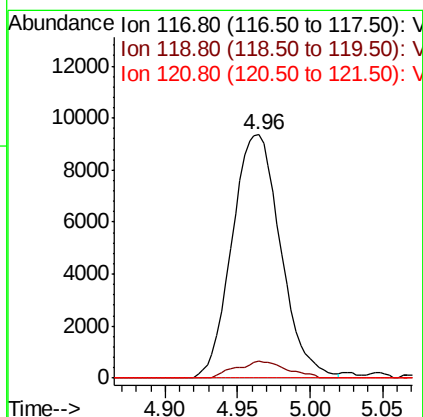
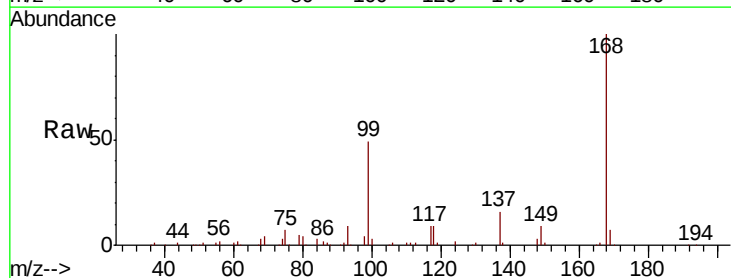
Instrument :
 MSVOA_U
 ClientSampleId :
 CPA-SW-3-M27W1-090619RE

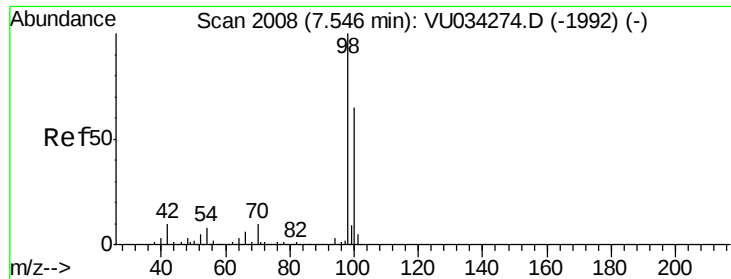
Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.5	18.3	54.9#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 5.009 ug/l
 RT: 4.96 min Scan# 1205
 Delta R.T. -0.15 min
 Lab File: VU034543.D
 Acq: 13 Sep 2019 00:12

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

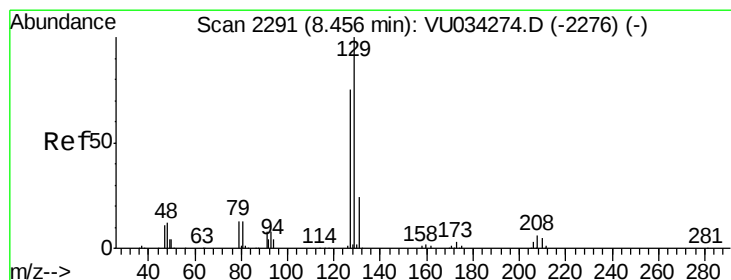
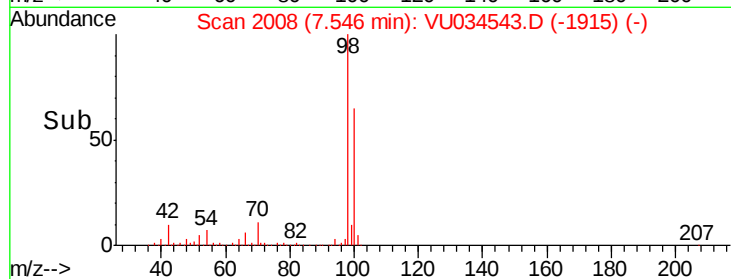
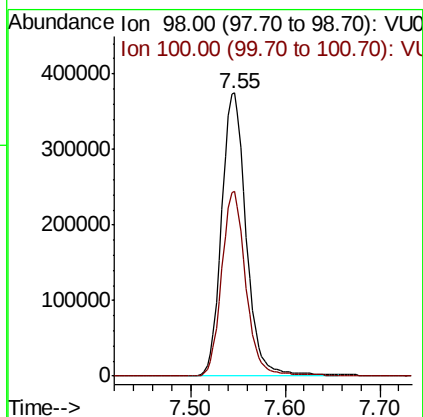
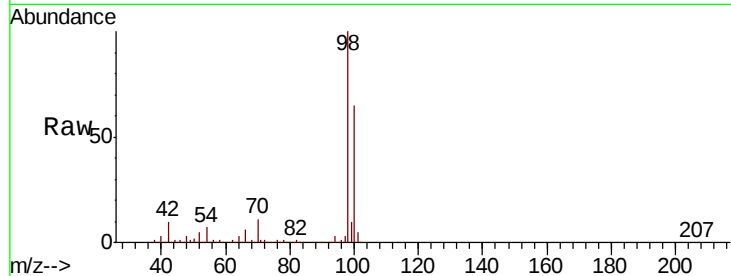




#50
Toluene-d8
Concen: 51.646 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034543.D
Acq: 13 Sep 2019 00:12

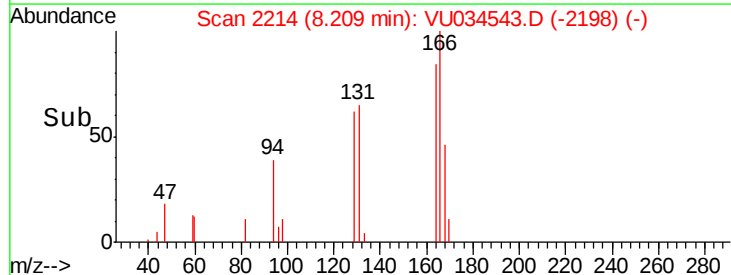
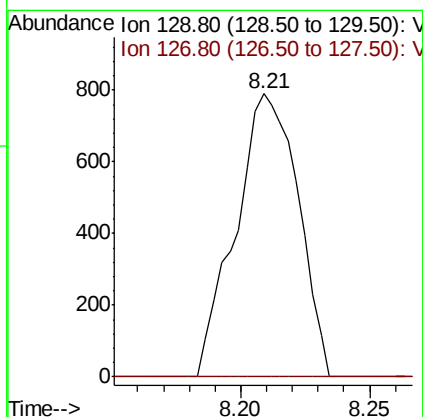
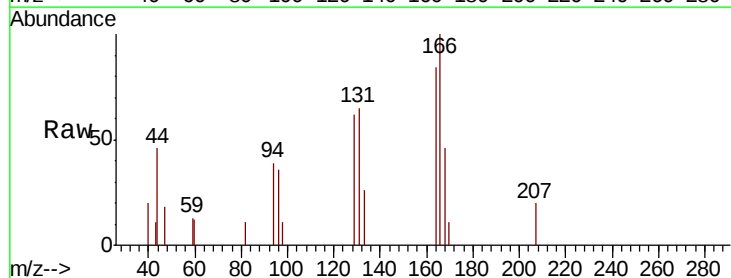
Instrument :
MSVOA_U
ClientSampleId :
CPA-SW-3-M27W1-090619RE

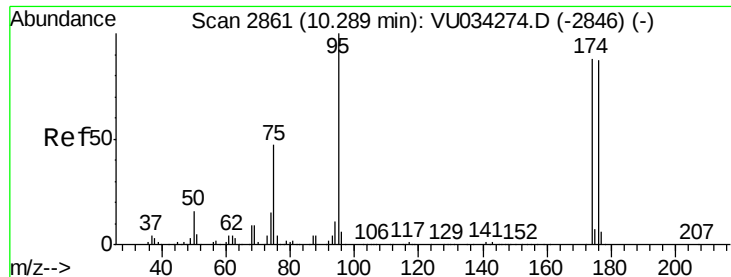
Tgt Ion: 98 Resp: 678540
Ion Ratio Lower Upper
98 100
100 64.4 51.7 77.5



#60
Dibromochloromethane
Concen: 0.333 ug/l
RT: 8.21 min Scan# 2214
Delta R.T. -0.25 min
Lab File: VU034543.D
Acq: 13 Sep 2019 00:12

Tgt Ion: 129 Resp: 1338
Ion Ratio Lower Upper
129 100
127 0.0 37.9 113.7#

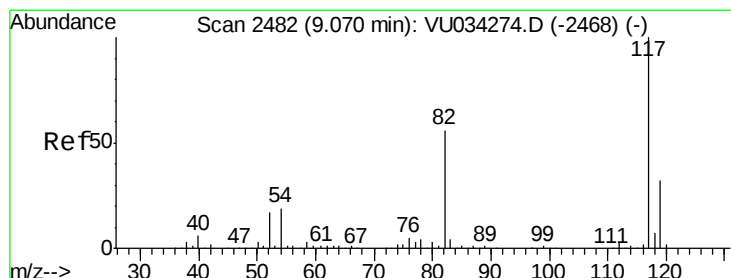
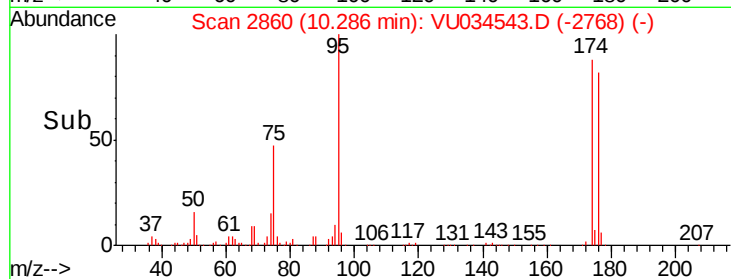
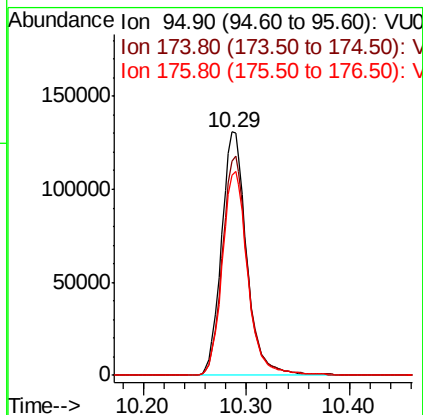
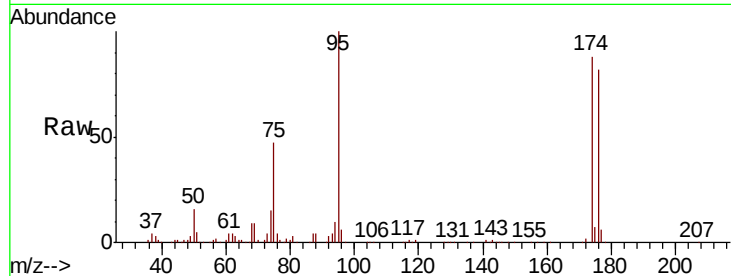




#62
4-Bromofluorobenzene
Concen: 43.722 ug/l
RT: 10.29 min Scan# 2860
Delta R.T. -0.00 min
Lab File: VU034543.D
Acq: 13 Sep 2019 00:12

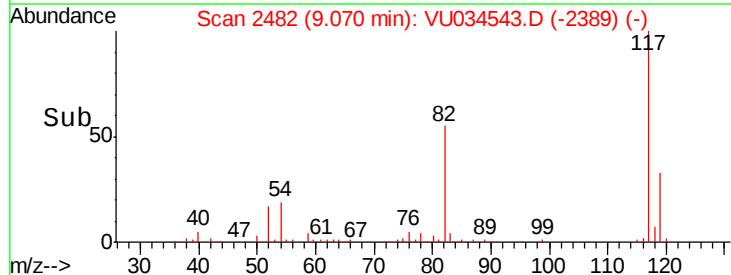
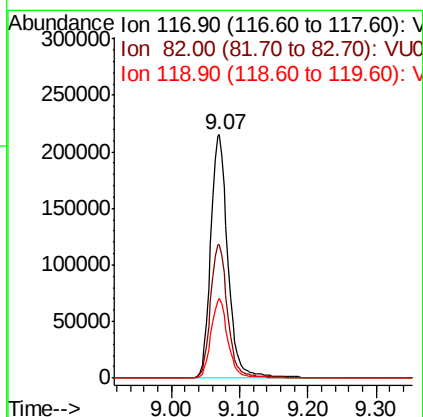
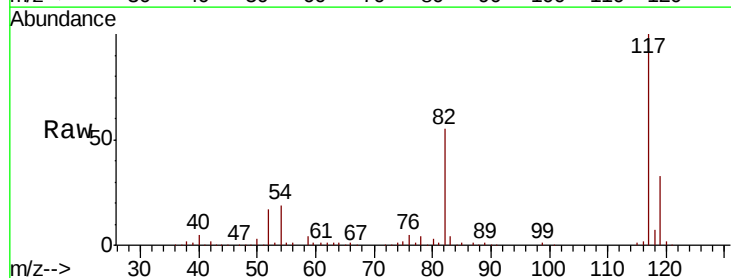
Instrument :
MSVOA_U
ClientSampleId :
CPA-SW-3-M27W1-090619RE

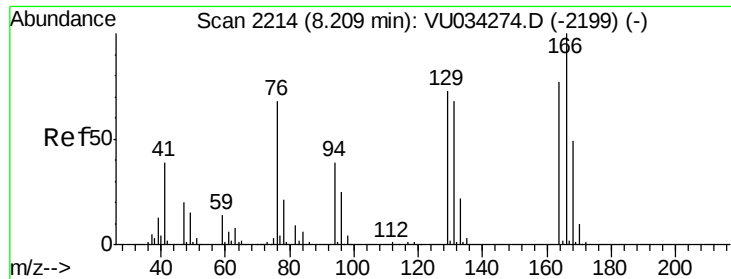
Tgt Ion: 95 Resp: 221786
Ion Ratio Lower Upper
95 100
174 90.3 0.0 175.2
176 85.0 0.0 168.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034543.D
Acq: 13 Sep 2019 00:12

Tgt Ion: 117 Resp: 378380
Ion Ratio Lower Upper
117 100
82 54.9 44.6 67.0
119 32.6 25.9 38.9





#64

Tetrachloroethene

Concen: 0.483 ug/l

RT: 8.21 min Scan# 2214

Delta R.T. 0.00 min

Lab File: VU034543.D

Acq: 13 Sep 2019 00:12

Instrument :

MSVOA_U

ClientSampleId :

CPA-SW-3-M27W1-090619RE

Tgt Ion:164 Resp: 1586

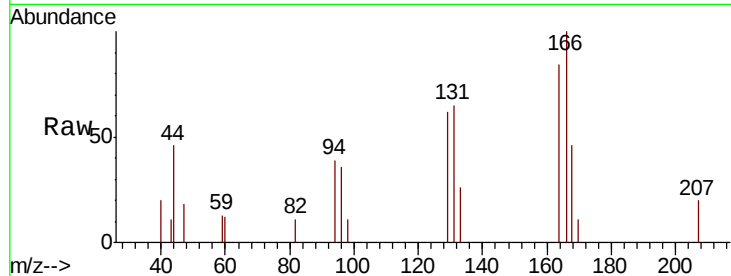
Ion Ratio Lower Upper

164 100

166 119.0 103.7 155.5

129 73.8 75.8 113.8#

131 77.2 70.7 106.1



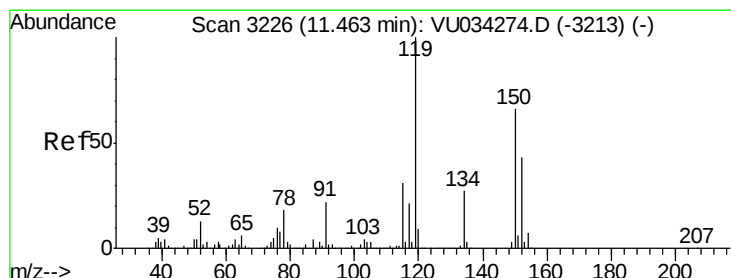
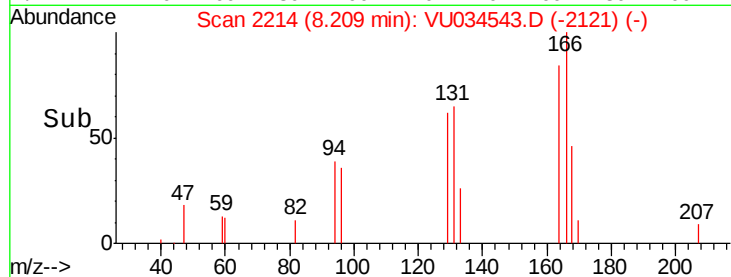
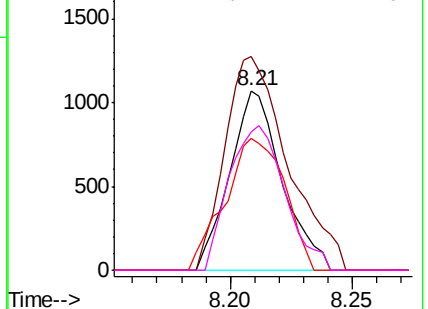
Abundance

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.46 min Scan# 3226

Delta R.T. 0.00 min

Lab File: VU034543.D

Acq: 13 Sep 2019 00:12

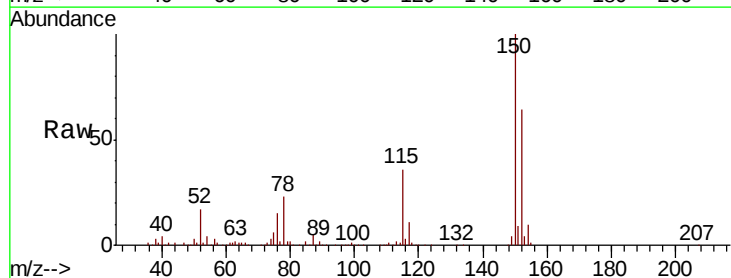
Tgt Ion:152 Resp: 207070

Ion Ratio Lower Upper

152 100

115 55.8 39.1 117.3

150 155.9 0.0 345.4

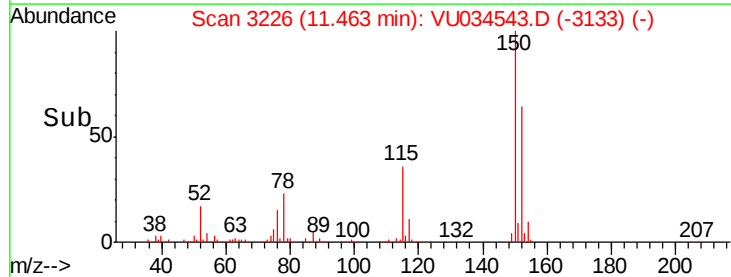
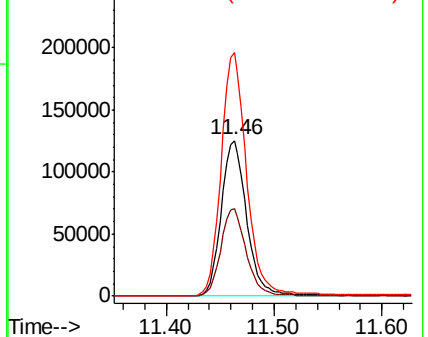


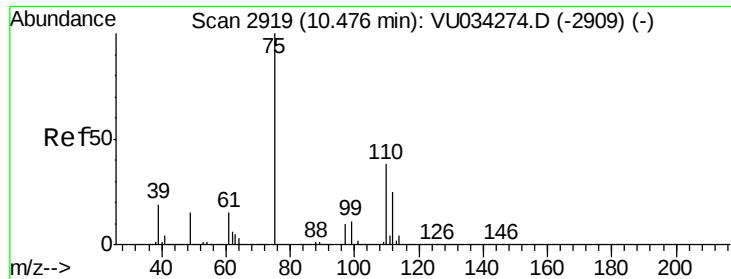
Abundance

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: 23.140 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034543.D

Acq: 13 Sep 2019 00:12

Instrument :

MSVOA_U

ClientSampleId :

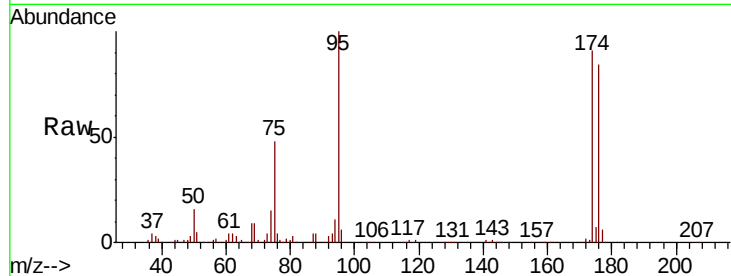
CPA-SW-3-M27W1-090619RE

Tgt Ion: 75 Resp: 104594

Ion Ratio Lower Upper

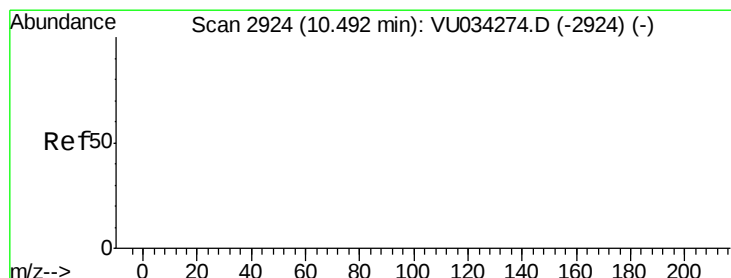
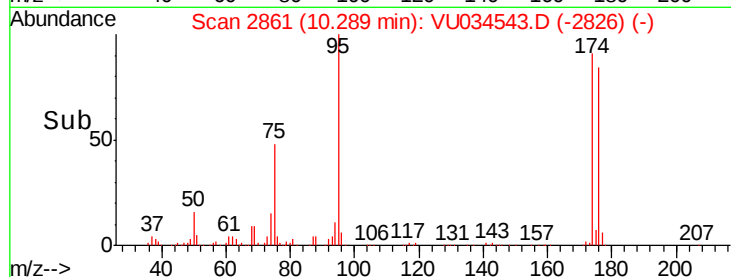
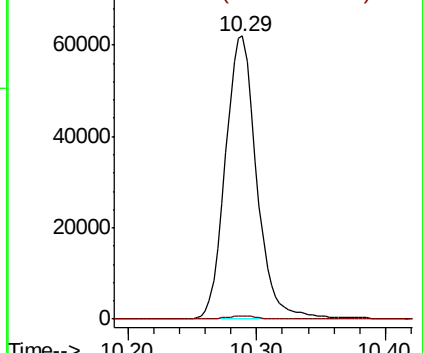
75 100

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: 77.820 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.20 min

Lab File: VU034543.D

Acq: 13 Sep 2019 00:12

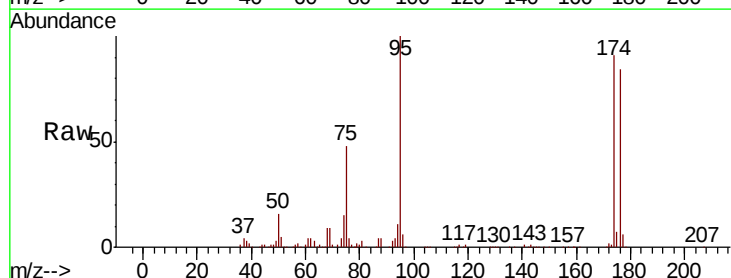
Tgt Ion: 75 Resp: 104594

Ion Ratio Lower Upper

75 100

53 0.2 0.0 0.0#

89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

