

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091219\
 Data File : VU034530.D
 Acq On : 12 Sep 2019 19:10
 Operator : JC/SP
 Sample : K4756-05
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 CPA-CPMW10D-M27W1-090319

Quant Time: Sep 13 07:13:08 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	256189	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	380106	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	388978	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	222951	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	222630	57.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.86%	
35) Dibromofluoromethane	4.86	113	192855	54.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.06%	
50) Toluene-d8	7.54	98	703165	52.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.84%	
62) 4-Bromofluorobenzene	10.29	95	233333	45.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.96%	

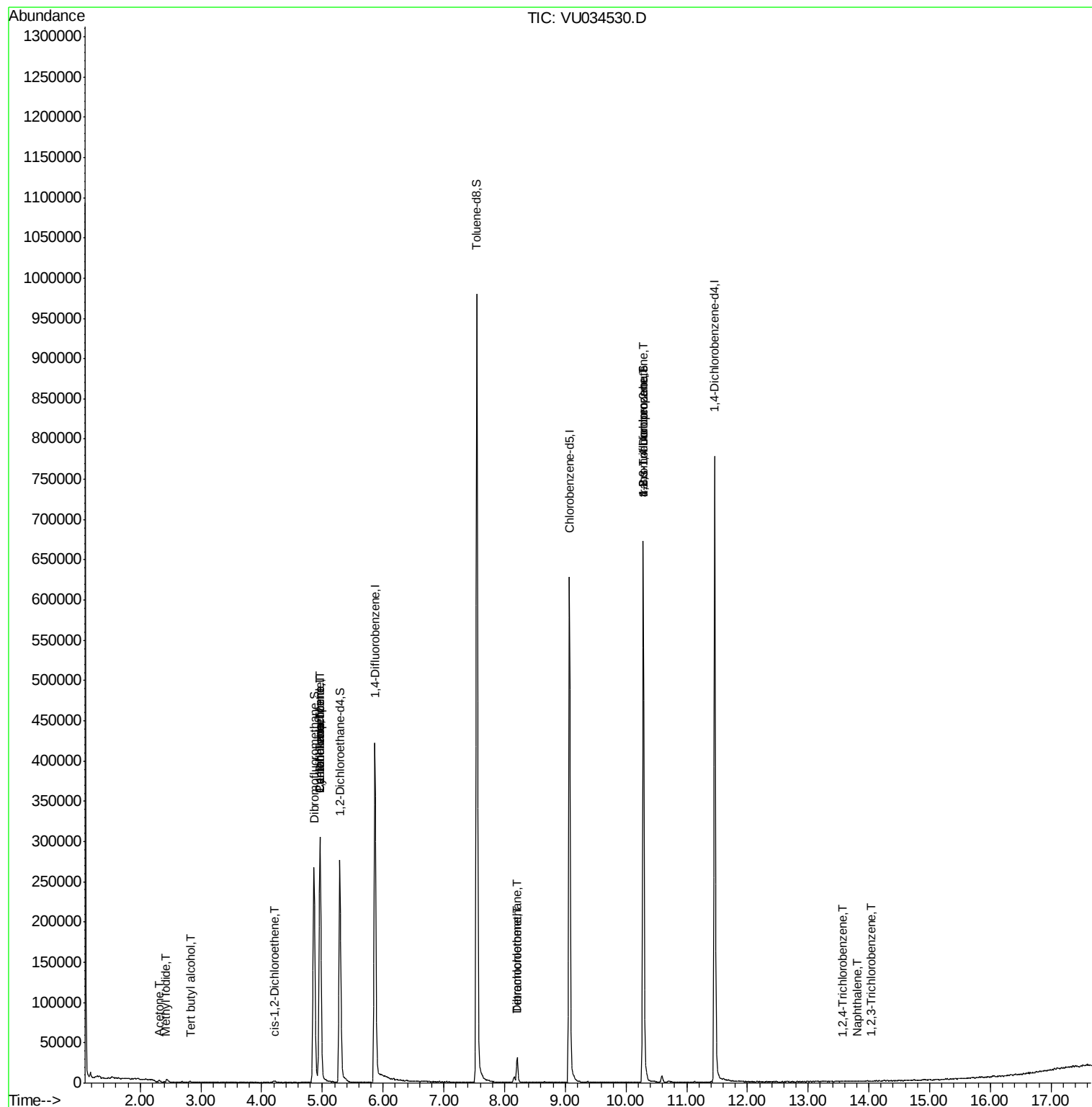
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	771	Below Cal		85
6) Chloroethane	1.60	64	378	Below Cal	#	43
10) Methyl Iodide	2.41	142	460	4.003	ug/l #	43
11) Tert butyl alcohol	2.82	59	1037	1.266	ug/l #	73
16) Acetone	2.31	43	2034	1.014	ug/l	90
20) Methylene Chloride	2.68	84	430	Below Cal	#	72
27) cis-1,2-Dichloroethene	4.22	96	1393	0.390	ug/l	66
31) Cyclohexane	4.97	56	4149	0.914	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	17043	4.134	ug/l #	49
38) Carbon Tetrachloride	4.96	117	22535	5.120	ug/l #	16
60) Dibromochloromethane	8.21	129	6537	1.609	ug/l #	12
64) Tetrachloroethene	8.21	164	7705	2.283	ug/l	92
76) 1,2,3-Trichloropropane	10.29	75	110501	22.706	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	110501	76.358	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.56	180	50	3.460	ug/l #	12
95) Naphthalene	13.79	128	114	3.973	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.03	180	40	2.646	ug/l #	37

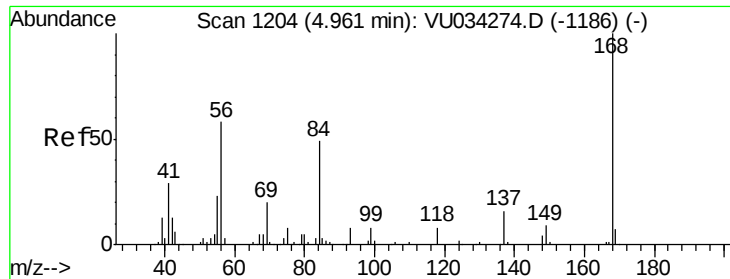
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.00 min

Lab File: VU034530.D

Acq: 12 Sep 2019 19:10

Instrument :

MSVOA_U

ClientSampleId :

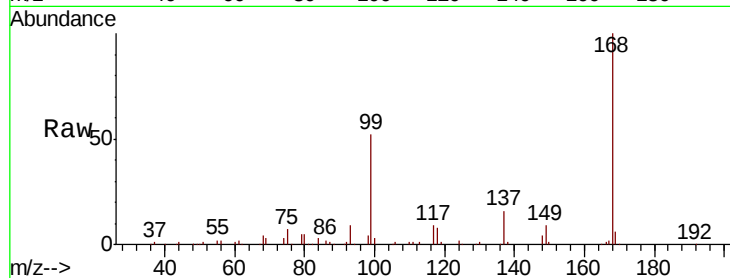
CPA-CPMW10D-M27W1-090319

Tgt Ion:168 Resp: 256189

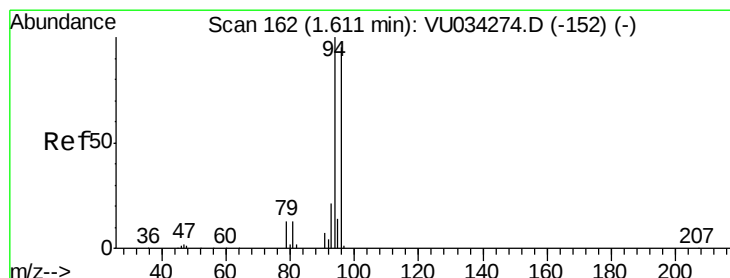
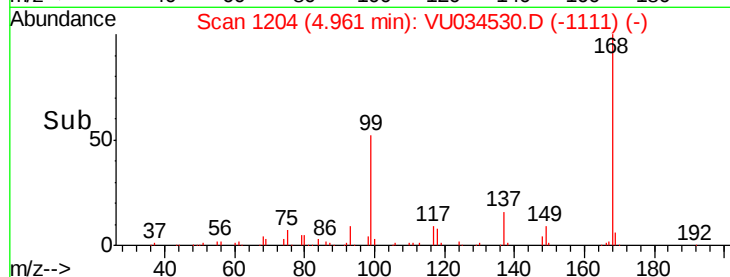
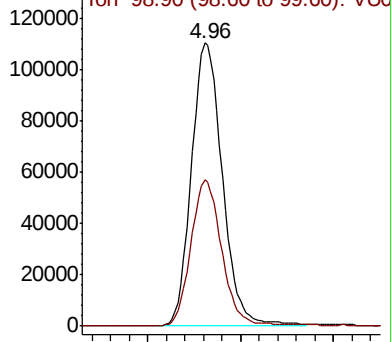
Ion Ratio Lower Upper

168 100

99 51.7 41.6 62.4



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



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 170

Delta R.T. 0.03 min

Lab File: VU034530.D

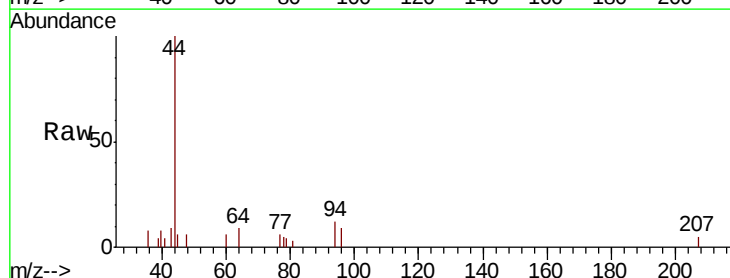
Acq: 12 Sep 2019 19:10

Tgt Ion: 94 Resp: 771

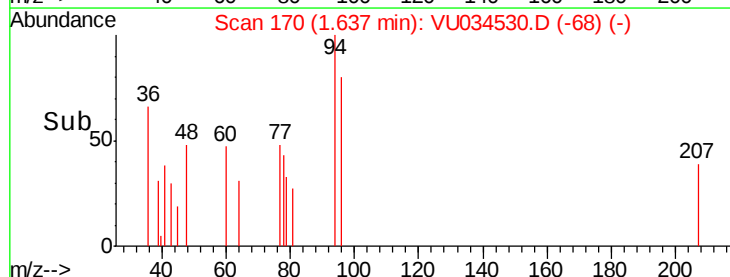
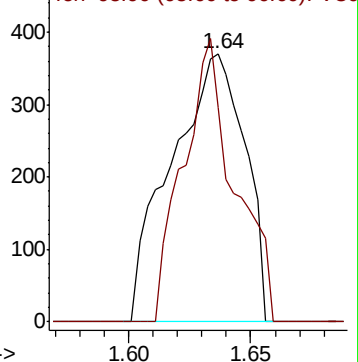
Ion Ratio Lower Upper

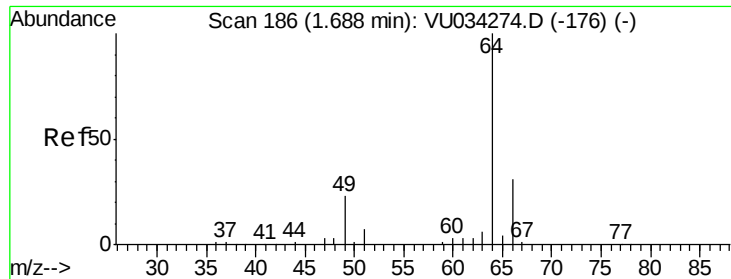
94 100

96 80.0 75.7 113.5



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





#6

Chloroethane

Concen: Below Cal

RT: 1.60 min Scan# 159

Delta R.T. -0.09 min

Lab File: VU034530.D

Acq: 12 Sep 2019 19:10

Instrument :

MSVOA_U

ClientSampleId :

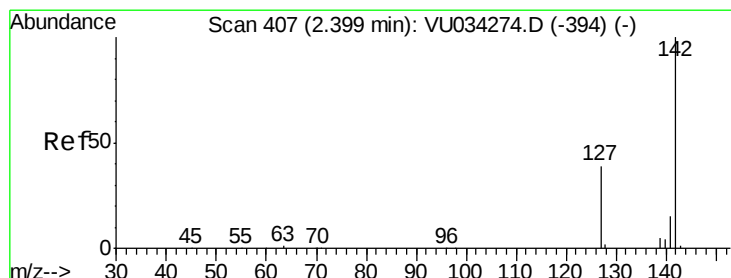
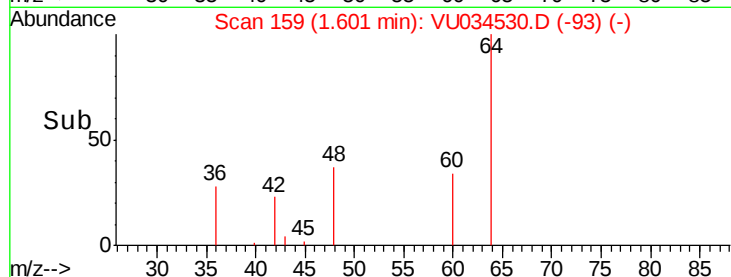
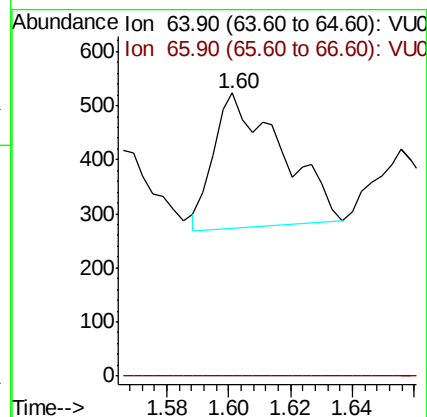
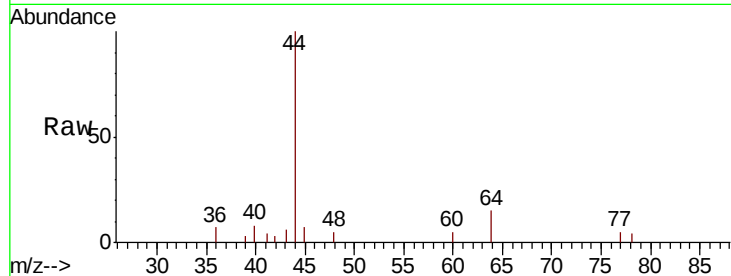
CPA-CPMW10D-M27W1-090319

Tgt Ion: 64 Resp: 378

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



#10

Methyl Iodide

Concen: 4.003 ug/l

RT: 2.41 min Scan# 411

Delta R.T. 0.01 min

Lab File: VU034530.D

Acq: 12 Sep 2019 19:10

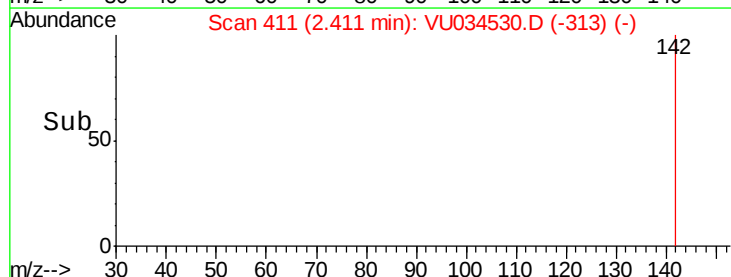
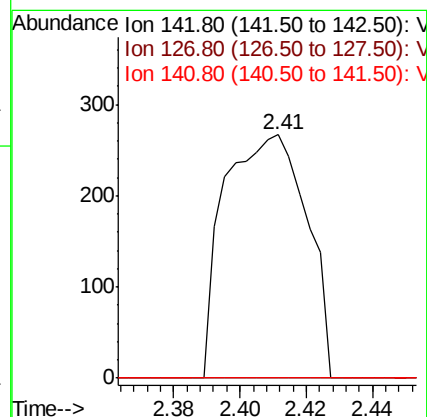
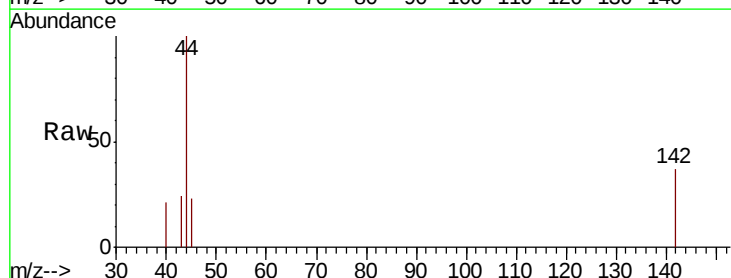
Tgt Ion: 142 Resp: 460

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: 1.266 ug/l

RT: 2.82 min Scan# 539

Delta R.T. 0.01 min

Lab File: VU034530.D

Acq: 12 Sep 2019 19:10

Instrument :

MSVOA_U

ClientSampleId :

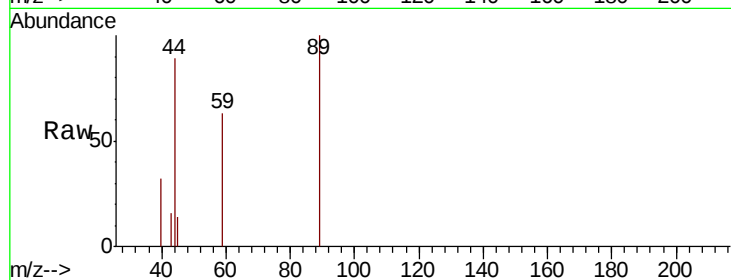
CPA-CPMW10D-M27W1-090319

Tgt Ion: 59 Resp: 1037

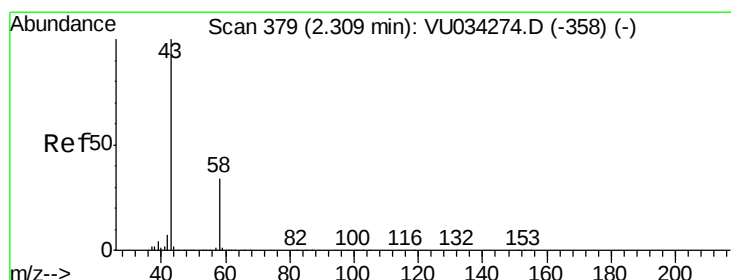
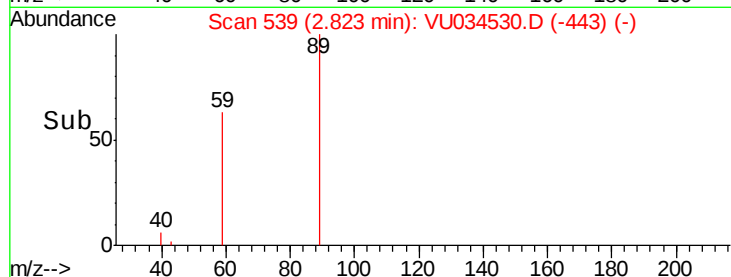
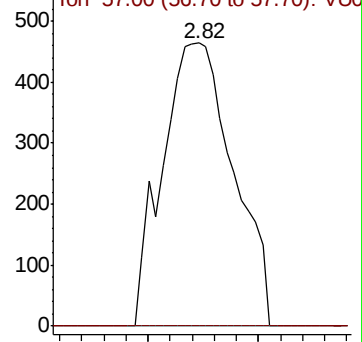
Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VU034530.D (-443) (-)



#16

Acetone

Concen: 1.014 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034530.D

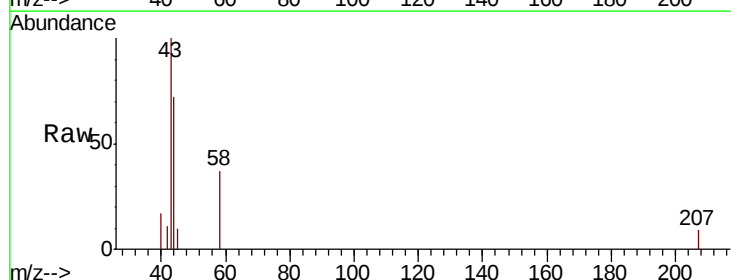
Acq: 12 Sep 2019 19:10

Tgt Ion: 43 Resp: 2034

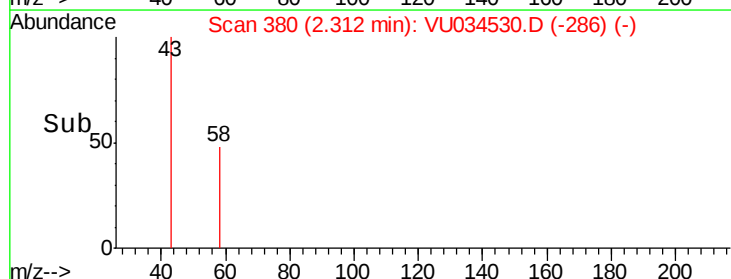
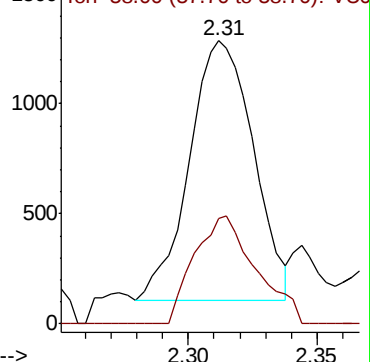
Ion Ratio Lower Upper

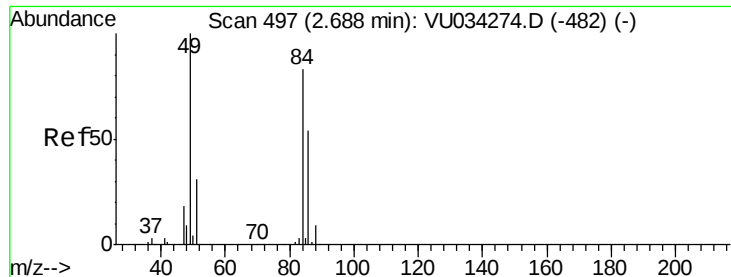
43 100

58 40.5 27.6 41.4



Abundance Ion 43.00 (42.70 to 43.70): VU034530.D (-286) (-)

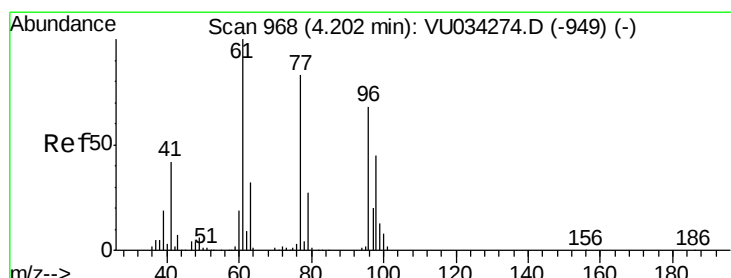
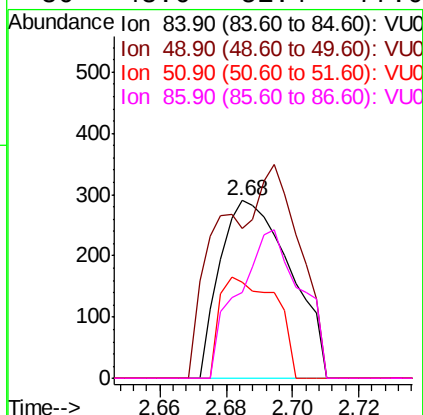
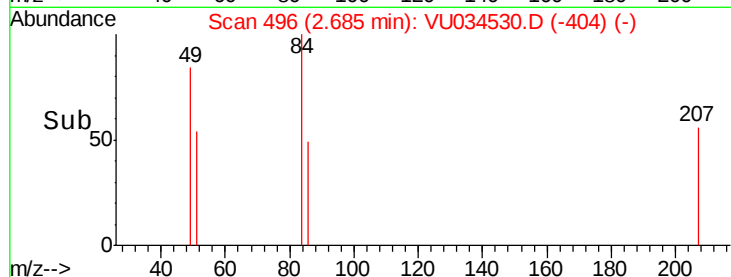
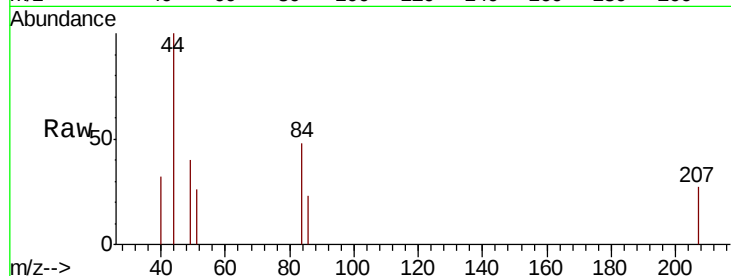




#20
Methylene Chloride
Concen: Below Cal
RT: 2.68 min Scan# 496
Delta R.T. -0.00 min
Lab File: VU034530.D
Acq: 12 Sep 2019 19:10

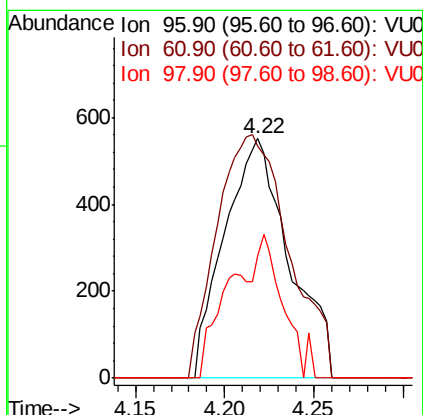
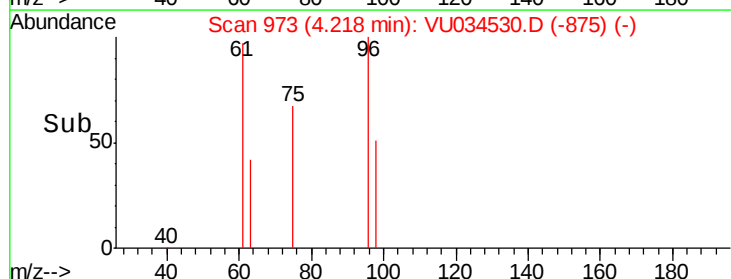
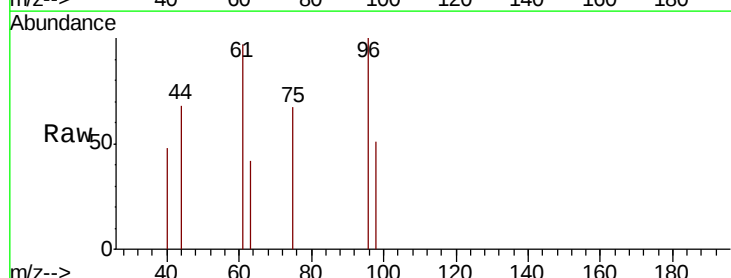
Instrument :
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CPA-CPMW10D-M27W1-090319

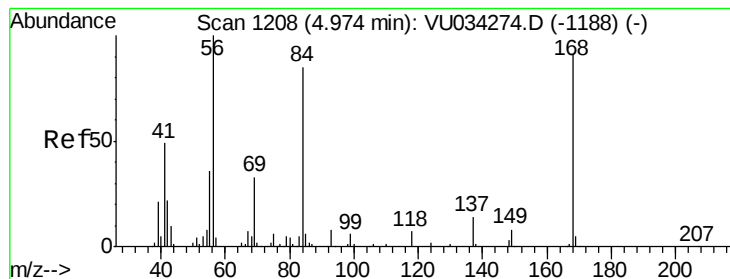
Tgt Ion: 84 Resp: 430
Ion Ratio Lower Upper
84 100
49 84.1 96.0 144.0#
51 54.1 30.0 45.0#
86 48.6 51.4 77.0#



#27
cis-1,2-Dichloroethene
Concen: 0.390 ug/l
RT: 4.22 min Scan# 973
Delta R.T. 0.02 min
Lab File: VU034530.D
Acq: 12 Sep 2019 19:10

Tgt Ion: 96 Resp: 1393
Ion Ratio Lower Upper
96 100
61 112.6 0.0 297.4
98 27.8 0.0 130.0





#31

Cyclohexane

Concen: 0.914 ug/l

RT: 4.97 min Scan# 1206

Delta R.T. -0.01 min

Lab File: VU034530.D

Acq: 12 Sep 2019 19:10

Instrument :

MSVOA_U

ClientSampleId :

CPA-CPMW10D-M27W1-090319

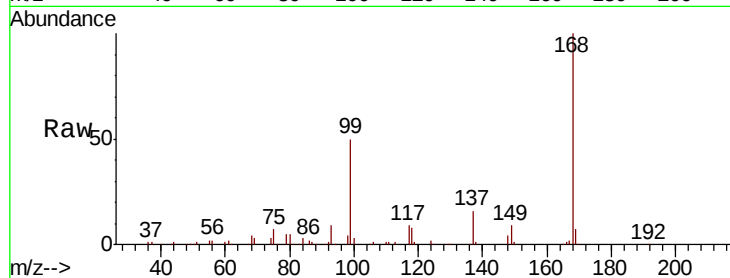
Tgt Ion: 56 Resp: 4149

Ion Ratio Lower Upper

56 100

69 184.2 26.7 40.1#

84 157.7 68.2 102.4#

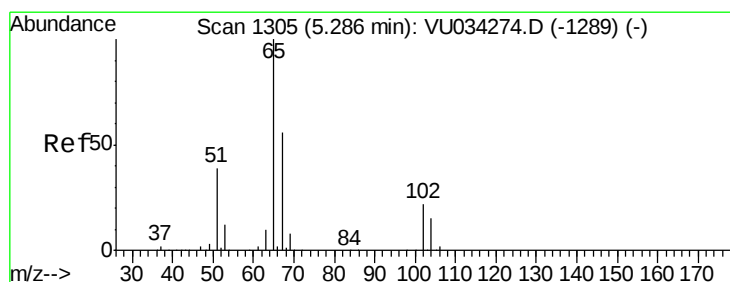
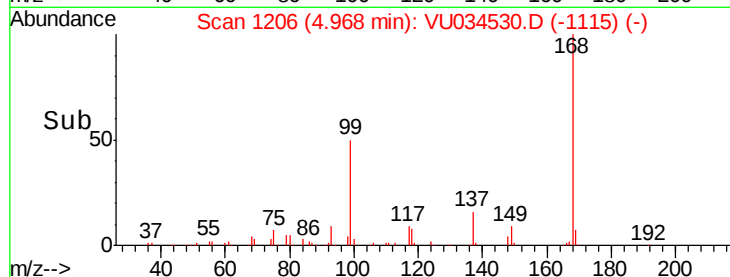
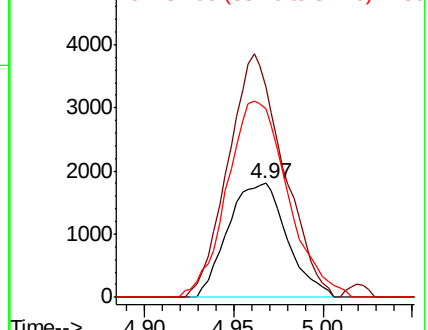


Abundance

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: 57.435 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034530.D

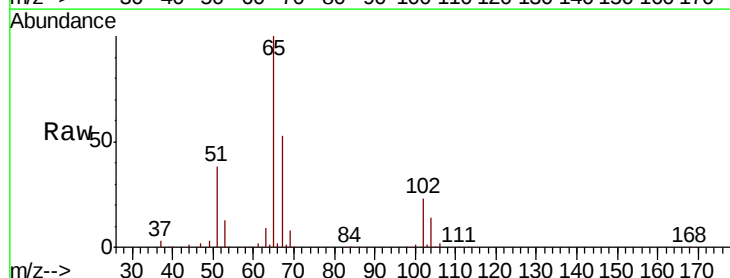
Acq: 12 Sep 2019 19:10

Tgt Ion: 65 Resp: 222630

Ion Ratio Lower Upper

65 100

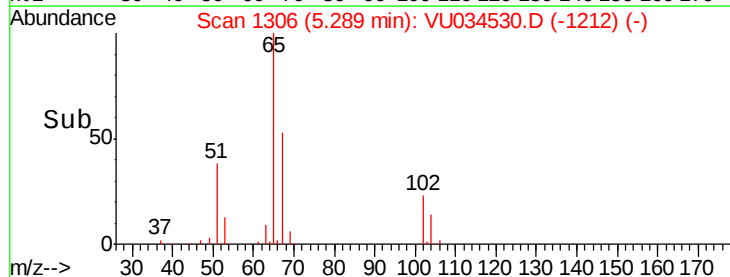
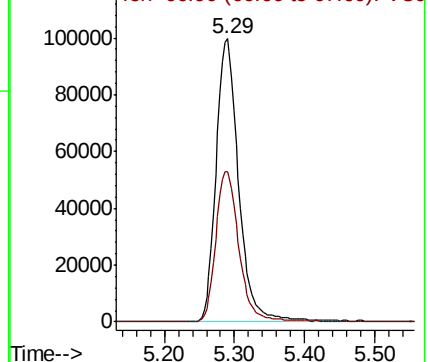
67 54.4 0.0 112.4

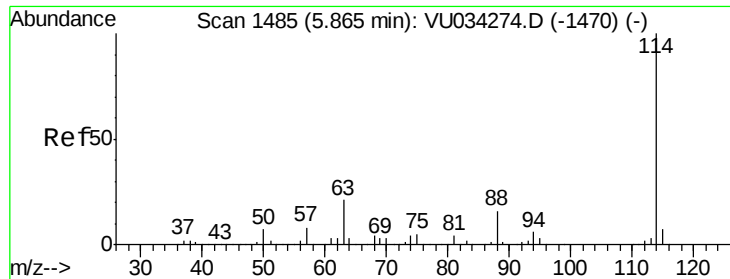


Abundance

Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0

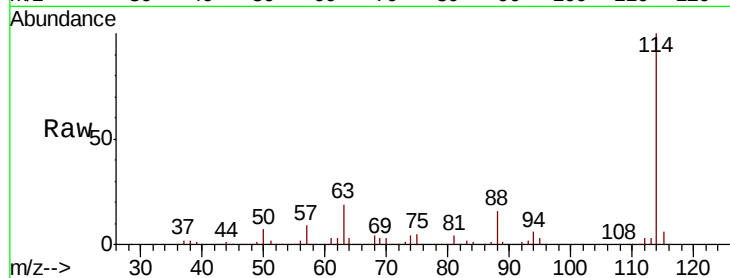




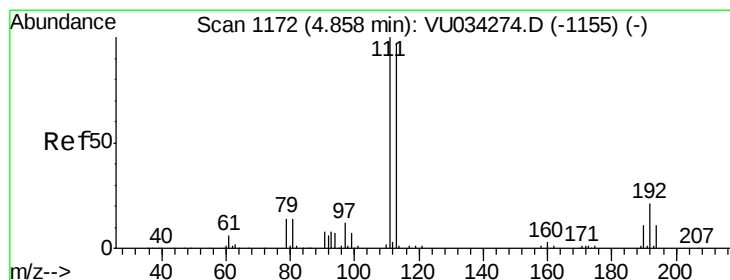
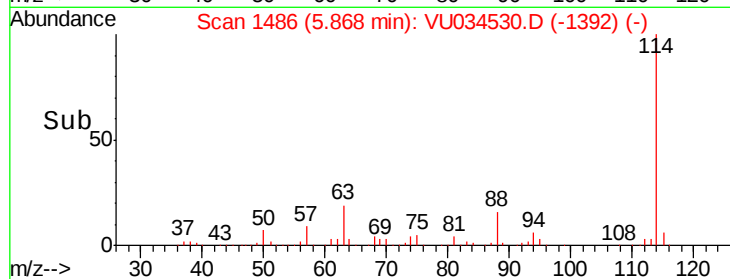
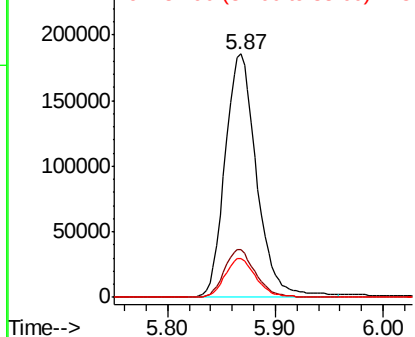
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034530.D
 Acq: 12 Sep 2019 19:10

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Tgt Ion:	114	Resp:	380106
Ion	Ratio	Lower	Upper
114	100		
63	19.4	0.0	42.4
88	15.8	0.0	32.4

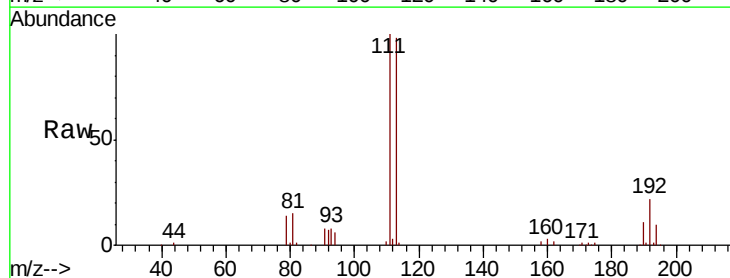


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

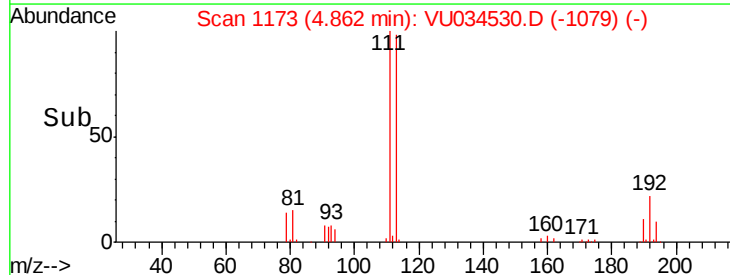
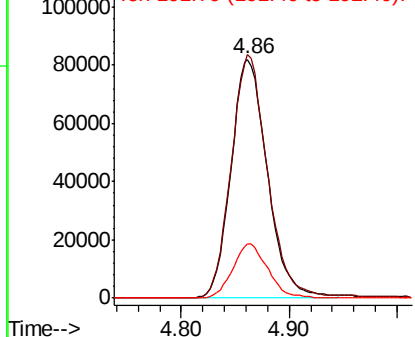


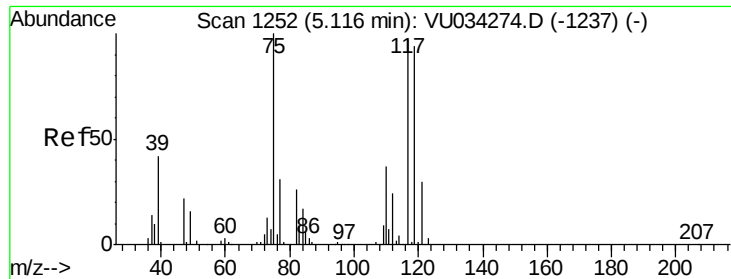
#35
 Dibromofluoromethane
 Concen: 54.527 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034530.D
 Acq: 12 Sep 2019 19:10

Tgt Ion:	113	Resp:	192855
Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.5	122.3
192	21.7	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

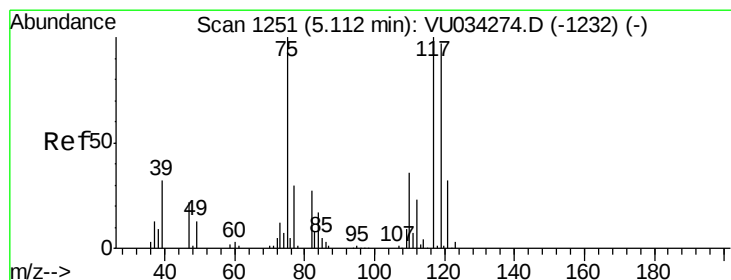
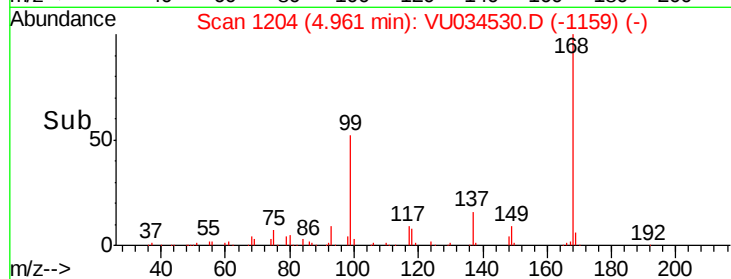
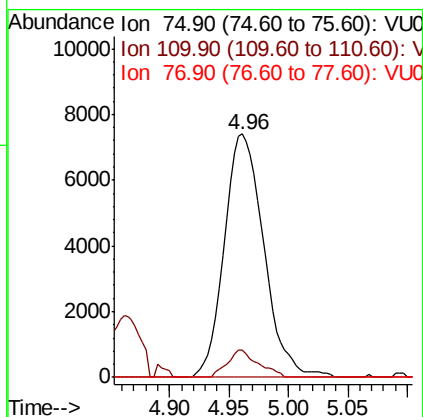
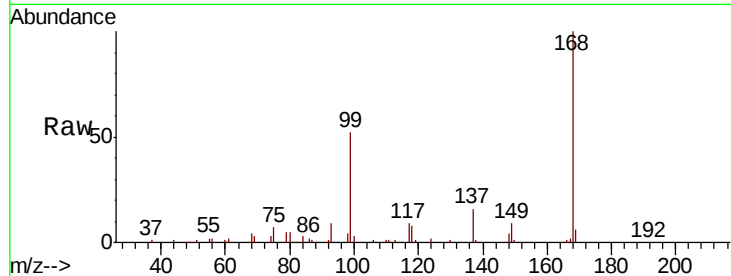




#36
 1,1-Dichloropropene
 Concen: 4.134 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034530.D
 Acq: 12 Sep 2019 19:10

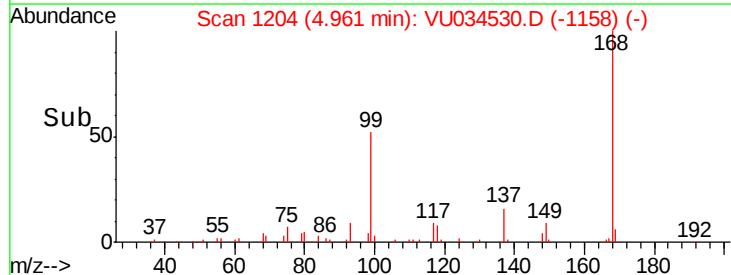
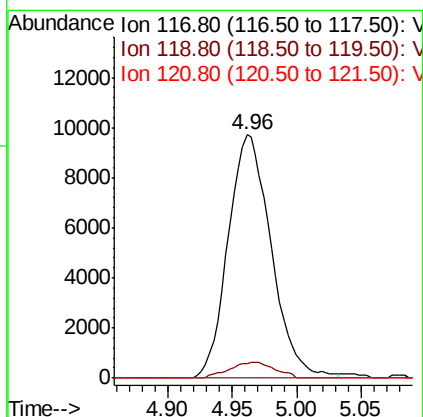
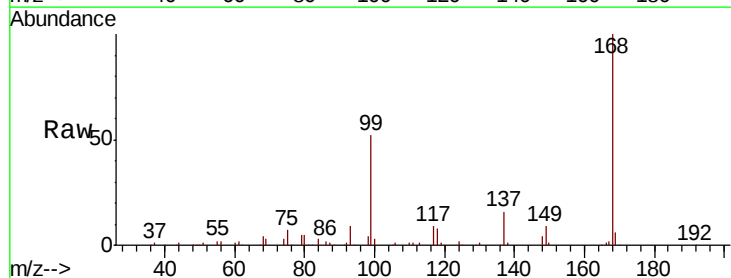
Instrument :
 MSVOA_U
 ClientSampleId :
 CPA-CPMW10D-M27W1-090319

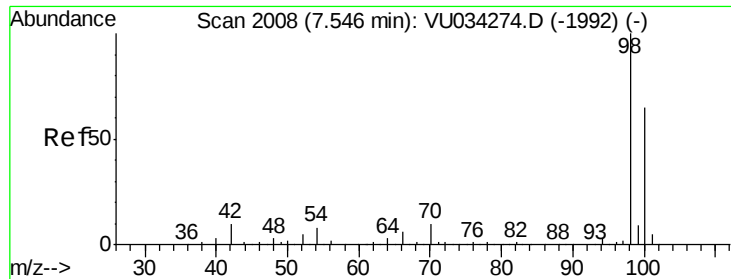
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.7	18.3	54.9#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 5.120 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034530.D
 Acq: 12 Sep 2019 19:10

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.1	77.8	116.6#
121	0.0	25.2	37.8#

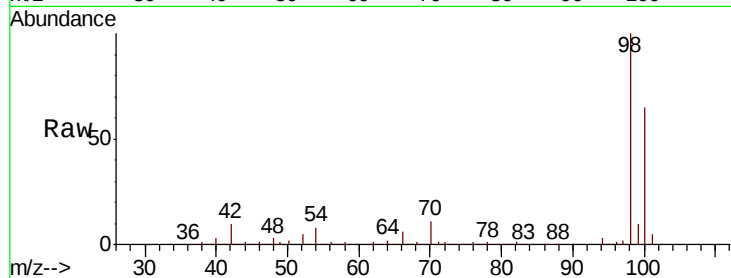




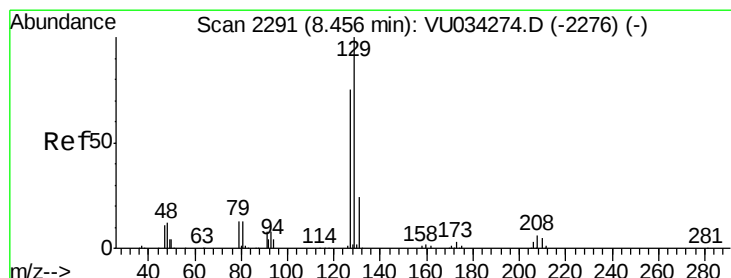
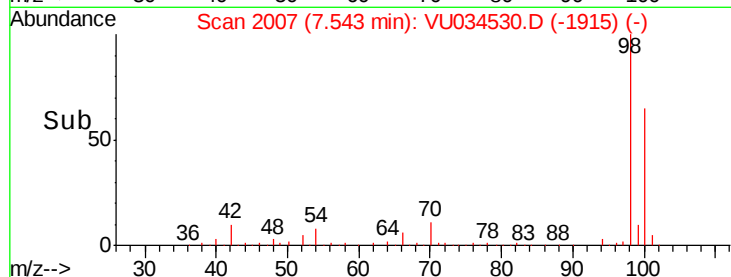
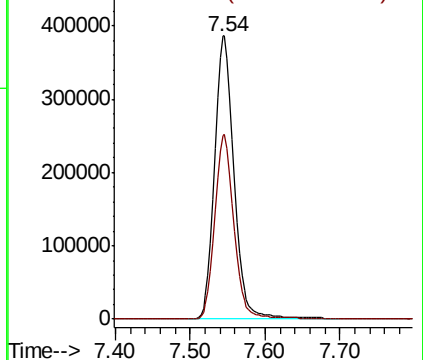
#50
Toluene-d8
Concen: 52.916 ug/l
RT: 7.54 min Scan# 2007
Delta R.T. -0.00 min
Lab File: VU034530.D
Acq: 12 Sep 2019 19:10

Instrument :
MSVOA_U
ClientSampleId :
CPA-CPMW10D-M27W1-090319

Tgt Ion: 98 Resp: 703165
Ion Ratio Lower Upper
98 100
100 64.5 51.7 77.5

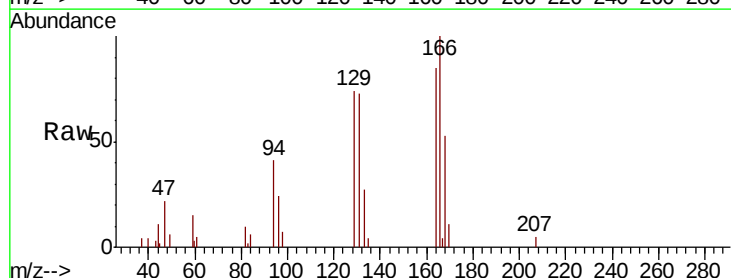


Abundance Ion 98.00 (97.70 to 98.70): VU034274.D (-1992) (-)
Ion 100.00 (99.70 to 100.70): VU034274.D (-1992) (-)

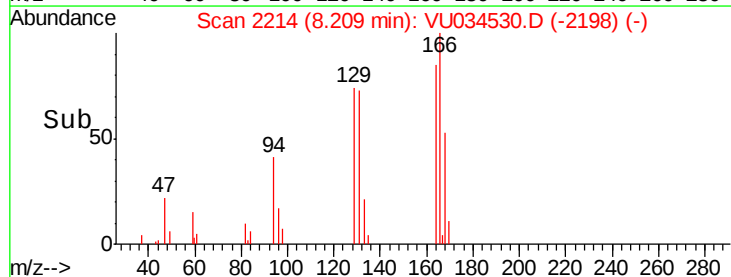
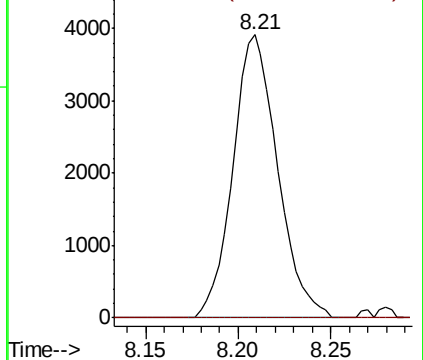


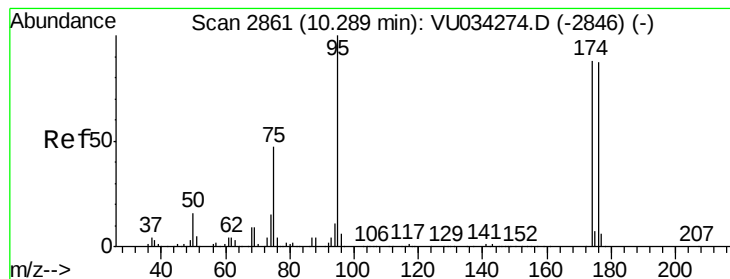
#60
Dibromochloromethane
Concen: 1.609 ug/l
RT: 8.21 min Scan# 2214
Delta R.T. -0.25 min
Lab File: VU034530.D
Acq: 12 Sep 2019 19:10

Tgt Ion: 129 Resp: 6537
Ion Ratio Lower Upper
129 100
127 0.0 37.9 113.7#



Abundance Ion 128.80 (128.50 to 129.50): VU034274.D (-2276) (-)
Ion 126.80 (126.50 to 127.50): VU034274.D (-2276) (-)





#62

4-Bromofluorobenzene

Concen: 45.480 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VU034530.D

Acq: 12 Sep 2019 19:10

Instrument :

MSVOA_U

ClientSampleId :

CPA-CPMW10D-M27W1-090319

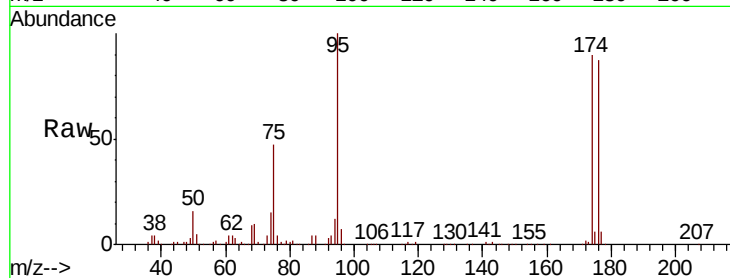
Tgt Ion: 95 Resp: 233333

Ion Ratio Lower Upper

95 100

174 89.4 0.0 175.2

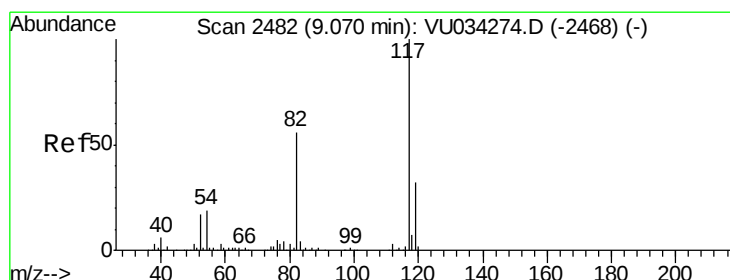
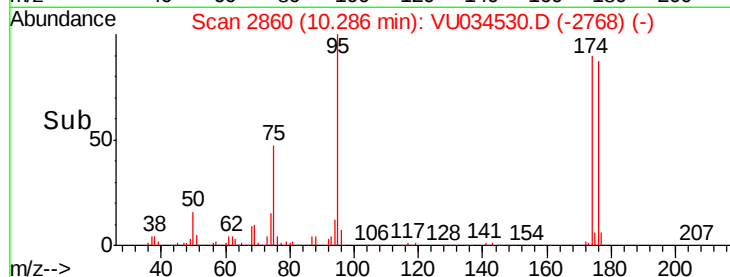
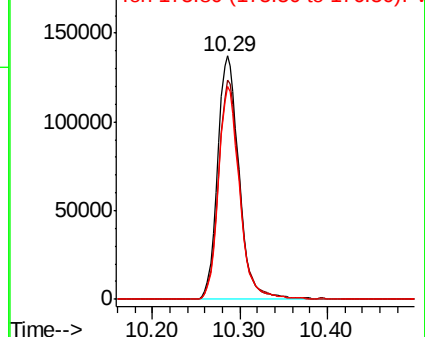
176 86.0 0.0 168.0



Abundance Ion 94.90 (94.60 to 95.60): VU034274.D (-2846) (-)

Ion 173.80 (173.50 to 174.50): VU034274.D (-2846) (-)

Ion 175.80 (175.50 to 176.50): VU034274.D (-2846) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2482

Delta R.T. -0.00 min

Lab File: VU034530.D

Acq: 12 Sep 2019 19:10

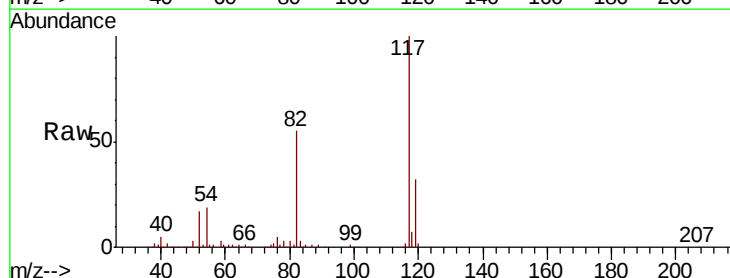
Tgt Ion: 117 Resp: 388978

Ion Ratio Lower Upper

117 100

82 55.4 44.6 67.0

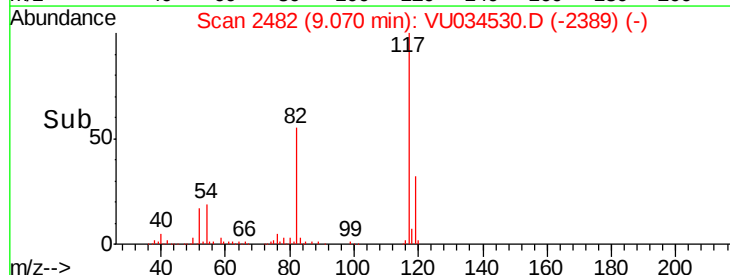
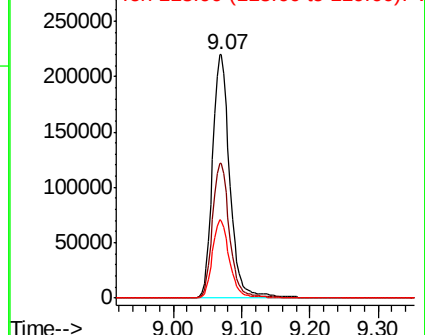
119 31.9 25.9 38.9

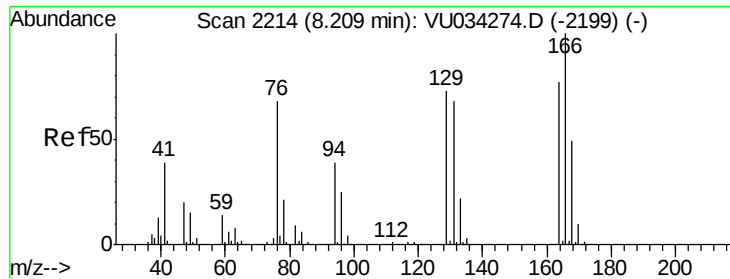


Abundance Ion 116.90 (116.60 to 117.60): VU034274.D (-2468) (-)

Ion 82.00 (81.70 to 82.70): VU034274.D (-2468) (-)

Ion 118.90 (118.60 to 119.60): VU034274.D (-2468) (-)

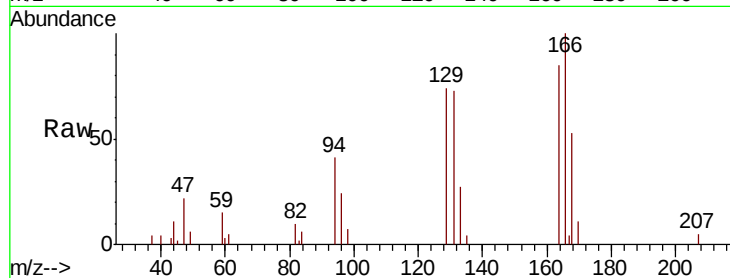




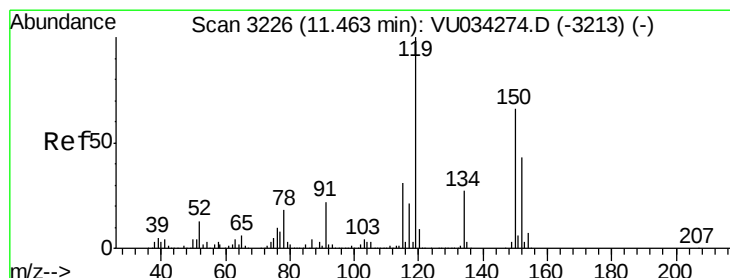
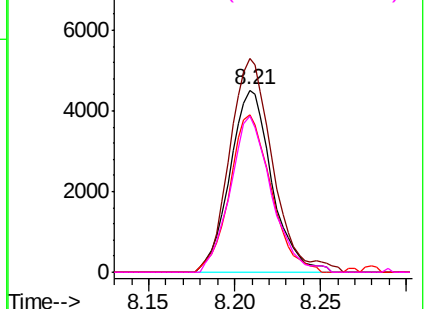
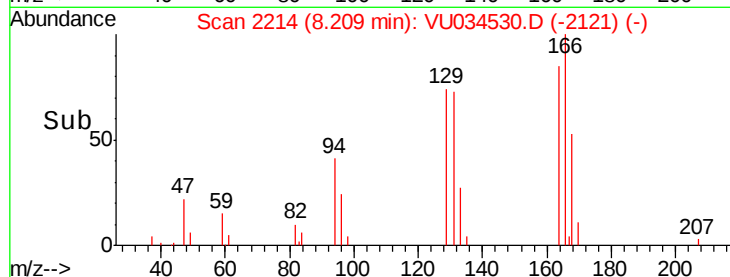
#64
Tetrachloroethene
Concen: 2.283 ug/l
RT: 8.21 min Scan# 2214
Delta R.T. -0.00 min
Lab File: VU034530.D
Acq: 12 Sep 2019 19:10

Instrument :
MSVOA_U
ClientSampleId :
CPA-CPMW10D-M27W1-090319

Tgt Ion:164 Resp: 7705
Ion Ratio Lower Upper
164 100
166 117.1 103.7 155.5
129 86.5 75.8 113.8
131 85.4 70.7 106.1

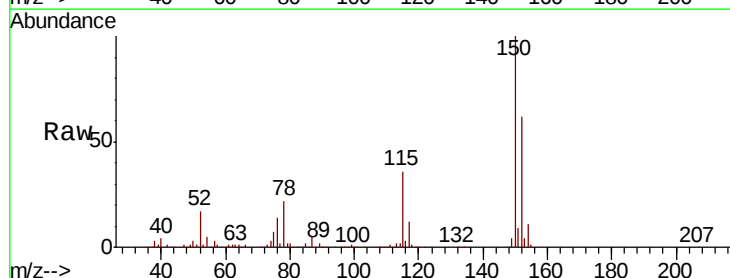


Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

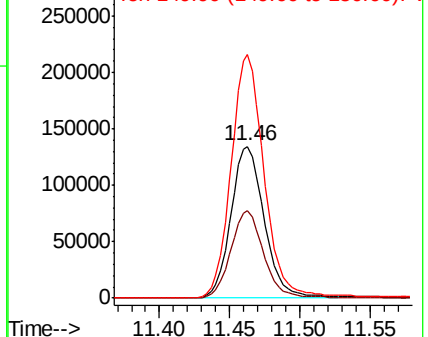
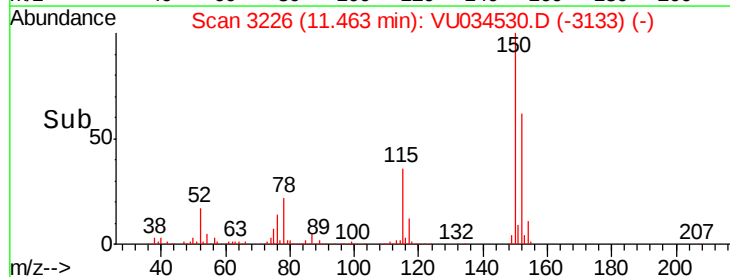


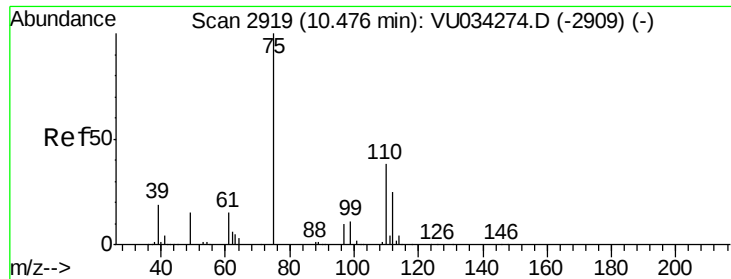
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034530.D
Acq: 12 Sep 2019 19:10

Tgt Ion:152 Resp: 222951
Ion Ratio Lower Upper
152 100
115 56.9 39.1 117.3
150 159.4 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: 22.706 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.19 min

Lab File: VU034530.D

Acq: 12 Sep 2019 19:10

Instrument :

MSVOA_U

ClientSampleId :

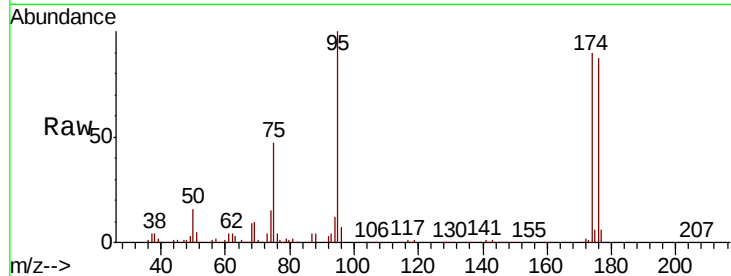
CPA-CPMW10D-M27W1-090319

Tgt Ion: 75 Resp: 110501

Ion Ratio Lower Upper

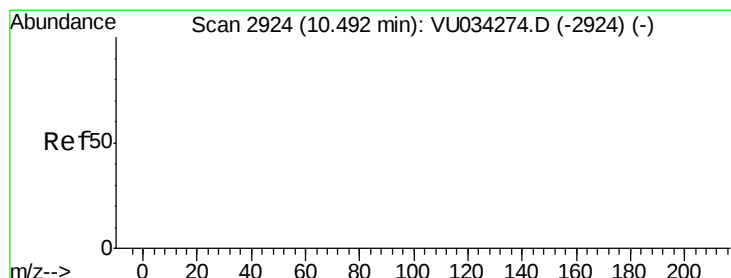
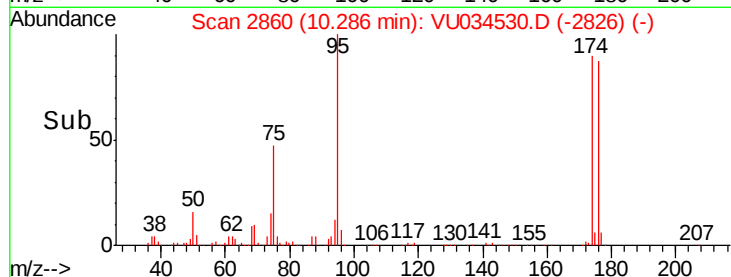
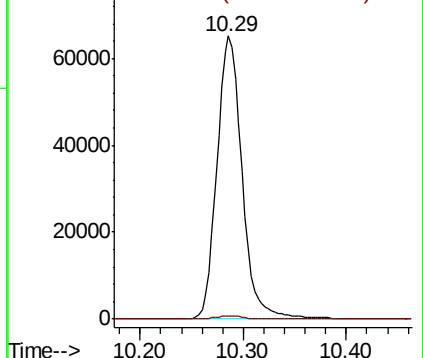
75 100

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: 76.358 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.21 min

Lab File: VU034530.D

Acq: 12 Sep 2019 19:10

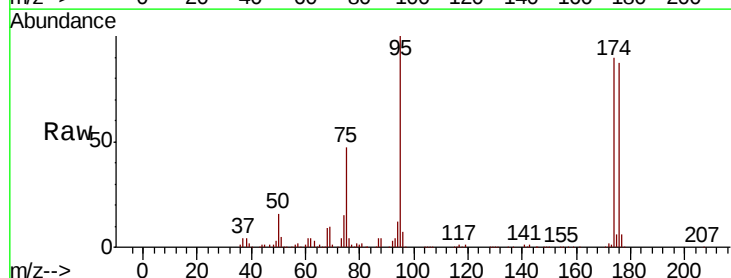
Tgt Ion: 75 Resp: 110501

Ion Ratio Lower Upper

75 100

53 0.2 0.0 0.0#

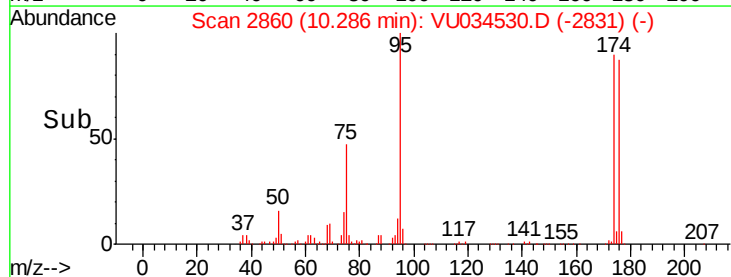
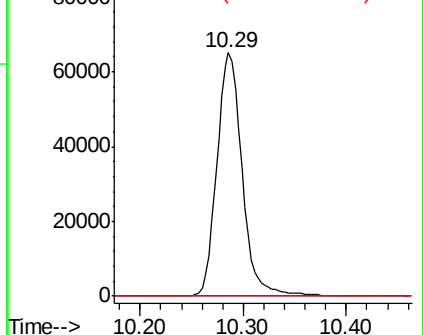
89 0.0 0.0 0.0

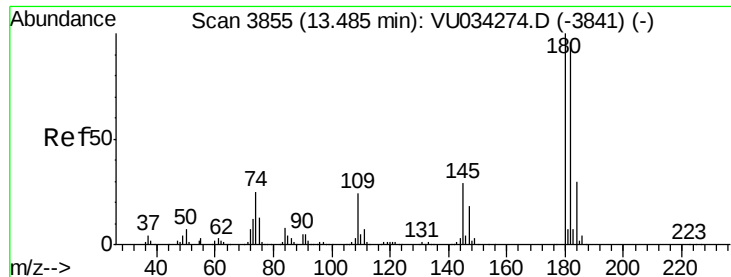


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

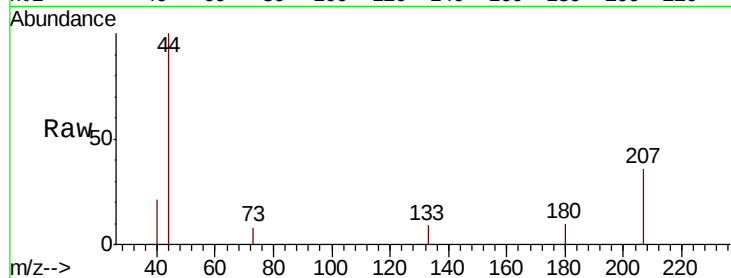




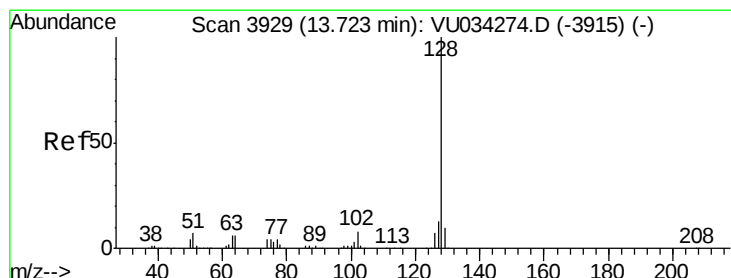
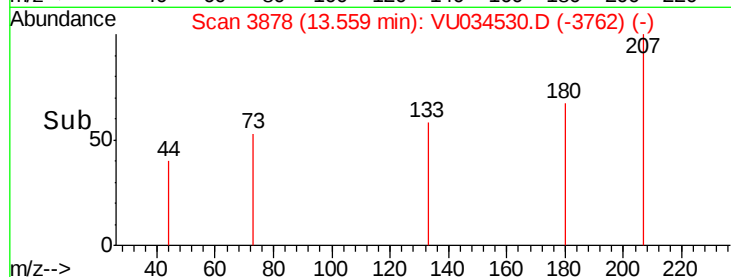
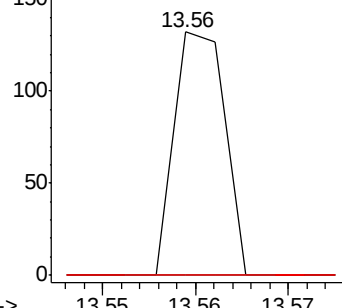
#93
 1,2,4-Trichlorobenzene
 Concen: 3.460 ug/l
 RT: 13.56 min Scan# 3878
 Delta R.T. 0.07 min
 Lab File: VU034530.D
 Acq: 12 Sep 2019 19:10

Instrument :
 MSVOA_U
 ClientSampleId :
 CPA-CPMW10D-M27W1-090319

Tgt Ion:180 Resp: 50
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.9 143.8#
 145 0.0 14.4 43.0#

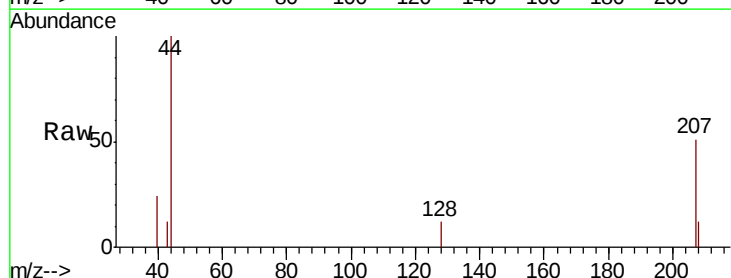


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

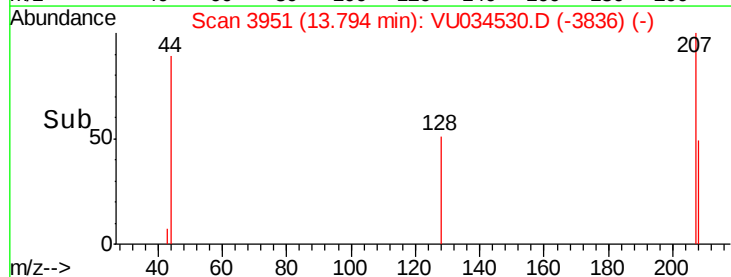
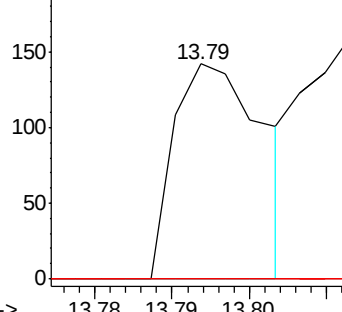


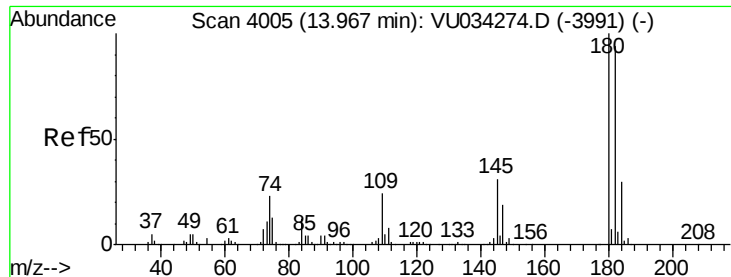
#95
 Naphthalene
 Concen: 3.973 ug/l
 RT: 13.79 min Scan# 3951
 Delta R.T. 0.07 min
 Lab File: VU034530.D
 Acq: 12 Sep 2019 19:10

Tgt Ion:128 Resp: 114
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.6 15.8#
 129 0.0 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: 2.646 ug/l
 RT: 14.03 min Scan# 4026
 Delta R.T. 0.07 min
 Lab File: VU034530.D
 Acq: 12 Sep 2019 19:10

Instrument :
 MSVOA_U
 ClientSampleId :
 CPA-CPMW10D-M27W1-090319

Tgt Ion	Ratio	Lower	Upper
180	100		
182	160.0	48.4	145.0#
145	0.0	15.4	46.4#

