

Data File : VU033960.D
Acq On : 26 Aug 2019 20:11
Operator : JC/SP
Sample : VU0827WBL01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VBLK60

Quant Time: Aug 27 07:59:31 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082719W.M
Quant Title : SW846 8260
QLast Update : Tue Aug 27 06:58:46 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.95	168	438912	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	716171	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	668124	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	302128	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.28	65	314117	49.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.60%	
35) Dibromofluoromethane	4.86	113	240924	48.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.72%	
50) Toluene-d8	7.54	98	892377	48.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.86%	
62) 4-Bromofluorobenzene	10.29	95	294681	41.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.96%	

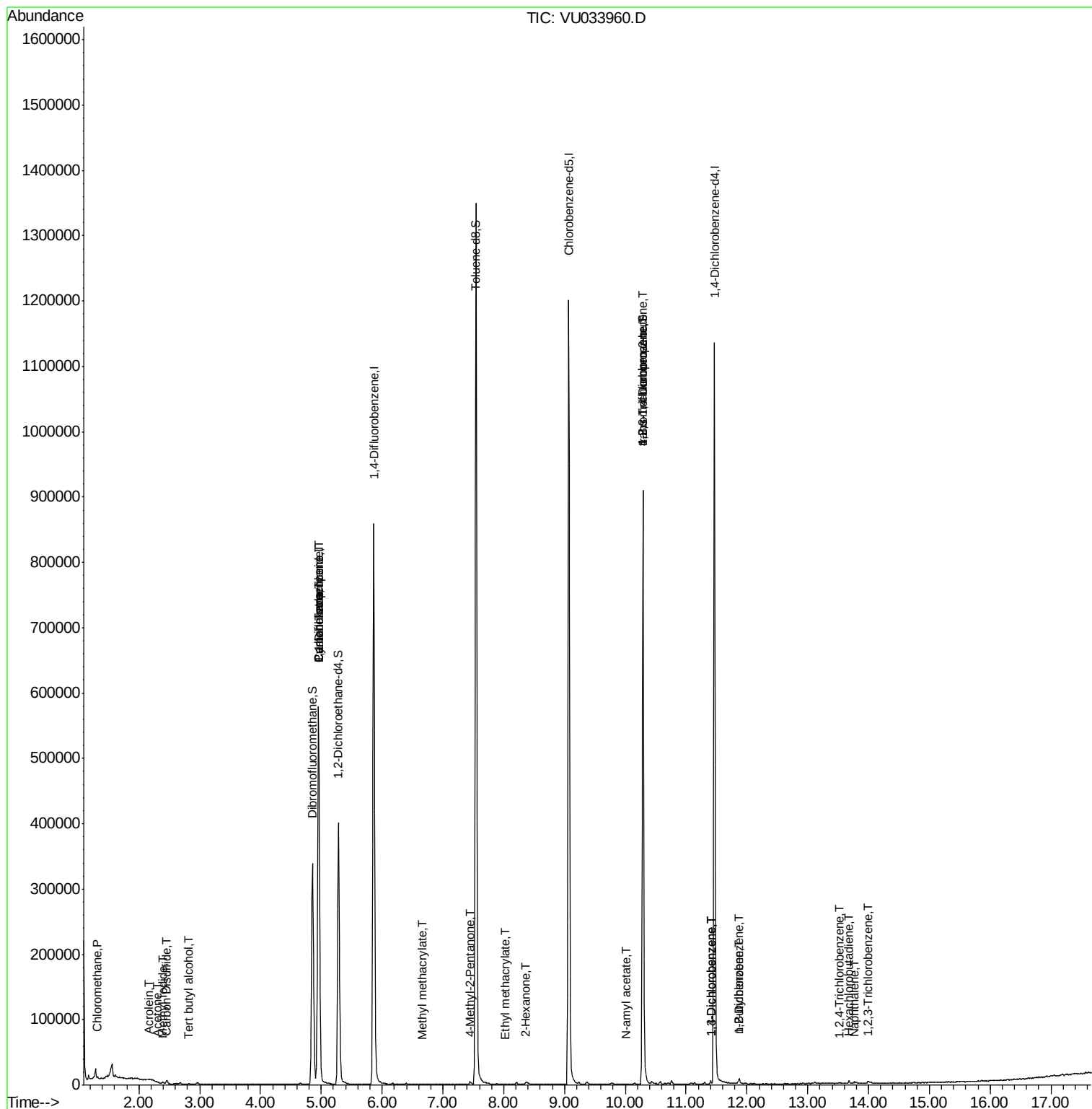
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	2255	0.356	ug/l #	84
5) Bromomethane	1.61	94	2098	Below Cal		92
10) Methyl Iodide	2.40	142	2187	5.532	ug/l #	91
11) Tert butyl alcohol	2.81	59	396	0.300	ug/l #	73
13) Acrolein	2.18	56	541	0.690	ug/l	87
16) Acetone	2.30	43	1847	0.492	ug/l	97
17) Carbon Disulfide	2.46	76	6095	0.377	ug/l #	93
31) Cyclohexane	4.95	56	10244	1.118	ug/l #	1
36) 1,1-Dichloropropene	4.95	75	35645	4.821	ug/l #	49
38) Carbon Tetrachloride	4.95	117	42013	5.706	ug/l #	16
48) Methyl methacrylate	6.66	41	22	2.315	ug/l #	14
51) 4-Methyl-2-Pentanone	7.45	43	3954	0.454	ug/l	91
56) Ethyl methacrylate	8.03	69	77	3.344	ug/l #	24
59) 2-Hexanone	8.37	43	4282	0.644	ug/l	92
74) N-amyl acetate	10.01	43	921	3.677	ug/l #	52
76) 1,2,3-Trichloropropane	10.29	75	152914	21.877	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	152914	58.334	ug/l #	100
87) 1,3-Dichlorobenzene	11.40	146	2529	0.268	ug/l	86
88) 1,4-Dichlorobenzene	11.40	146	2529	0.259	ug/l	86
89) n-Butylbenzene	11.88	91	3019	2.831	ug/l	89
91) 1,2-Dichlorobenzene	11.87	146	2012	0.223	ug/l	90
93) 1,2,4-Trichlorobenzene	13.51	180	650	3.557	ug/l	71
94) Hexachlorobutadiene	13.67	225	1027	0.304	ug/l	90
95) Naphthalene	13.77	128	3113	4.653	ug/l #	93
96) 1,2,3-Trichlorobenzene	13.99	180	871	3.155	ug/l #	1

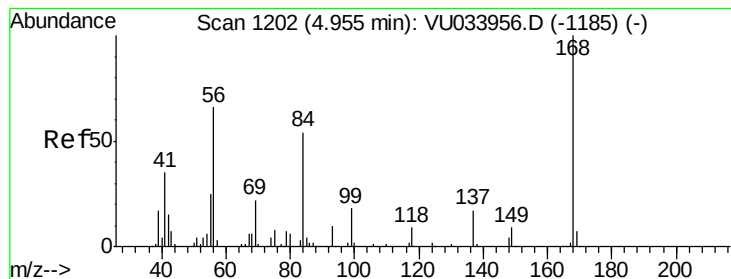
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.95 min Scan# 1202

Delta R.T. 0.00 min

Lab File: VU033960.D

Acq: 26 Aug 2019 20:11

Instrument :

MSVOA_U

ClientSampleId :

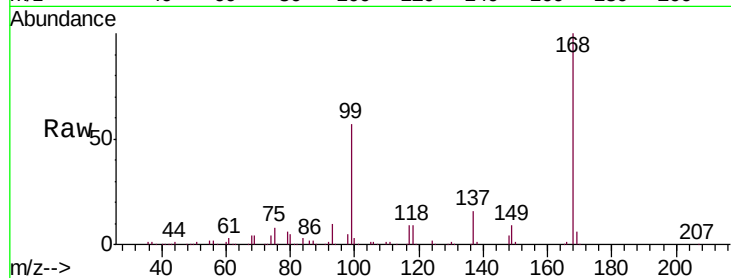
VBLK60

Tgt Ion:168 Resp: 438912

Ion Ratio Lower Upper

168 100

99 57.2 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): VU033956.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU033956.D (-1185) (-)

4.95

200000

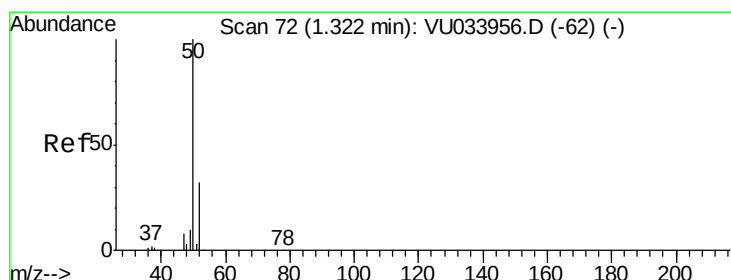
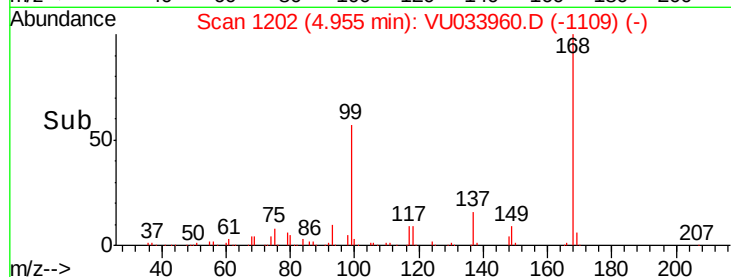
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.356 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU033960.D

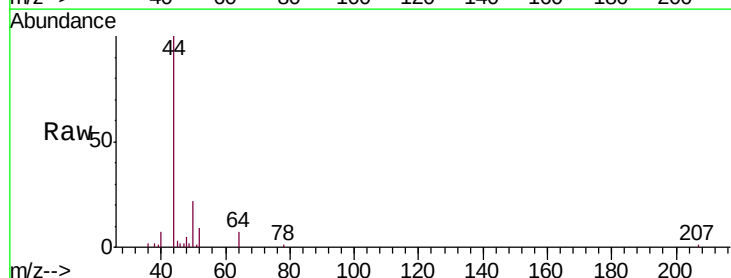
Acq: 26 Aug 2019 20:11

Tgt Ion: 50 Resp: 2255

Ion Ratio Lower Upper

50 100

52 41.4 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VU033956.D (-62) (-)

Ion 51.90 (51.60 to 52.60): VU033956.D (-62) (-)

1.32

2000

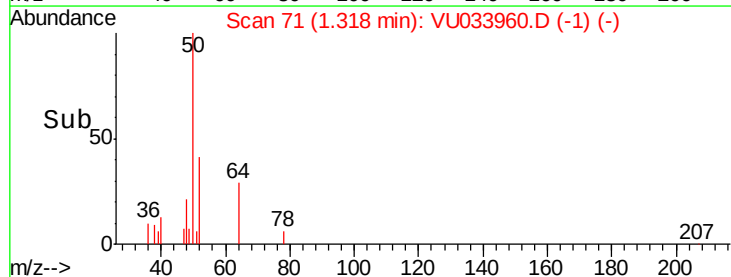
1500

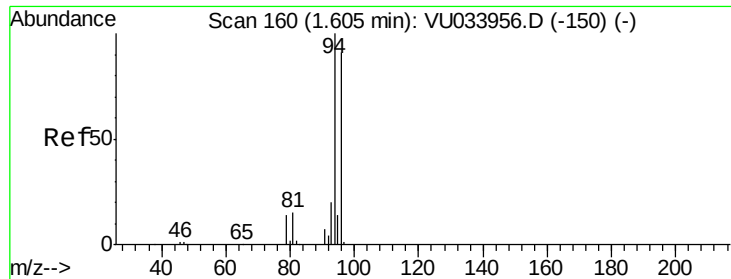
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 162

Delta R.T. 0.01 min

Lab File: VU033960.D

Acq: 26 Aug 2019 20:11

Instrument :

MSVOA_U

ClientSampleId :

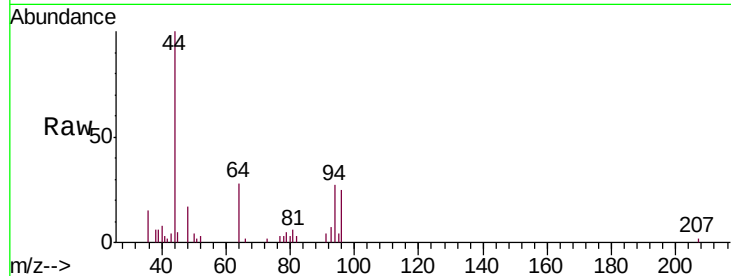
VBLK60

Tgt Ion: 94 Resp: 2098

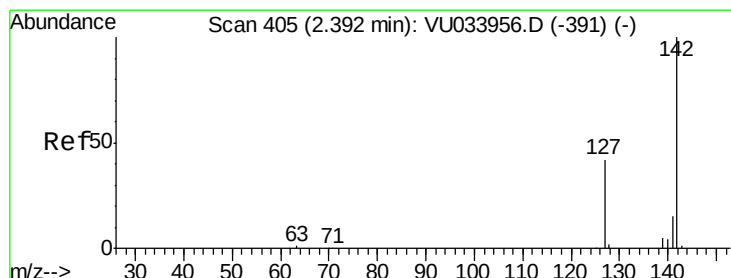
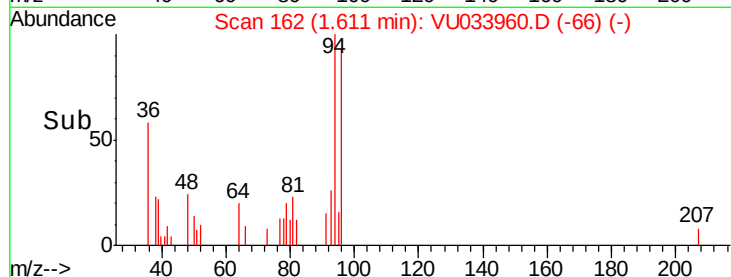
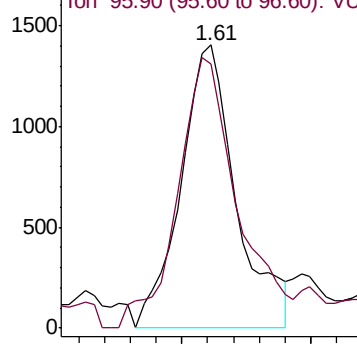
Ion Ratio Lower Upper

94 100

96 83.8 73.2 109.8



Abundance Ion 93.90 (93.60 to 94.60): VU033956.D (-150) (-)



#10

Methyl Iodide

Concen: 5.532 ug/l

RT: 2.40 min Scan# 406

Delta R.T. 0.00 min

Lab File: VU033960.D

Acq: 26 Aug 2019 20:11

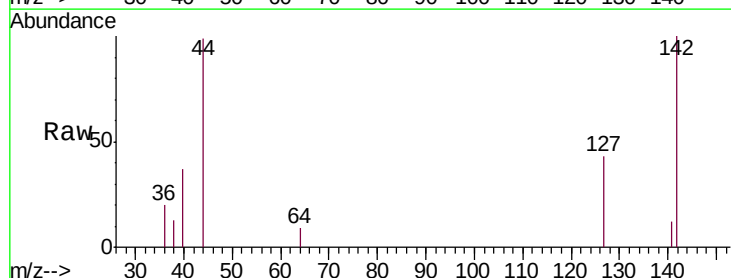
Tgt Ion: 142 Resp: 2187

Ion Ratio Lower Upper

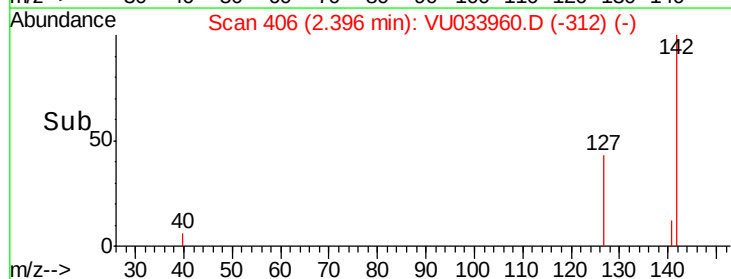
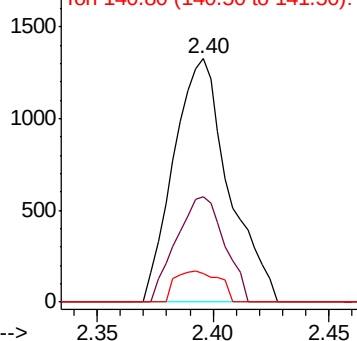
142 100

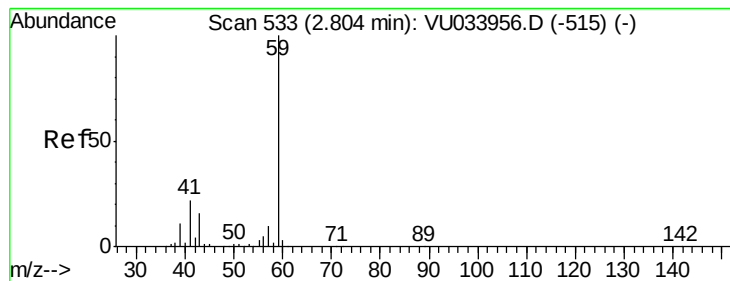
127 37.9 34.3 51.5

141 10.1 11.8 17.6#



Abundance Ion 141.80 (141.50 to 142.50): VU033956.D (-391) (-)



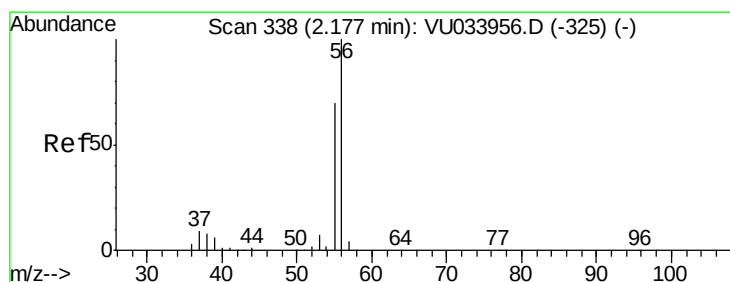
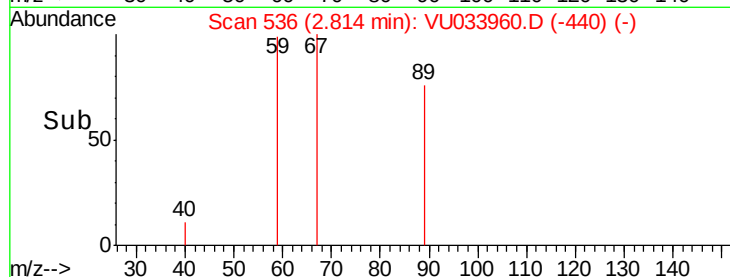
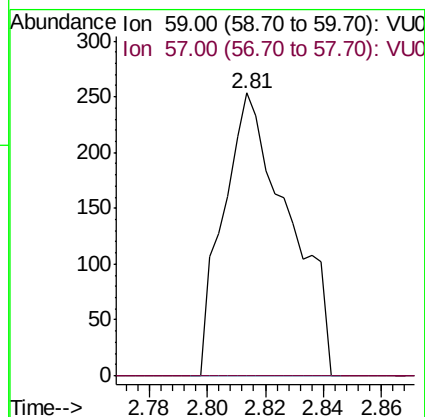
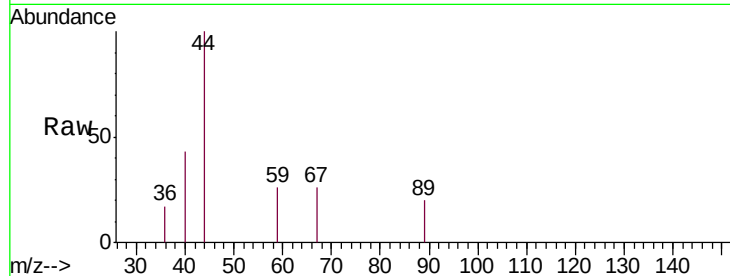


#11

Tert butyl alcohol
 Concen: 0.300 ug/l
 RT: 2.81 min Scan# 536
 Delta R.T. 0.01 min
 Lab File: VU033960.D
 Acq: 26 Aug 2019 20:11

Instrument :
 MSVOA_U
 ClientSampleId :
 VBLK60

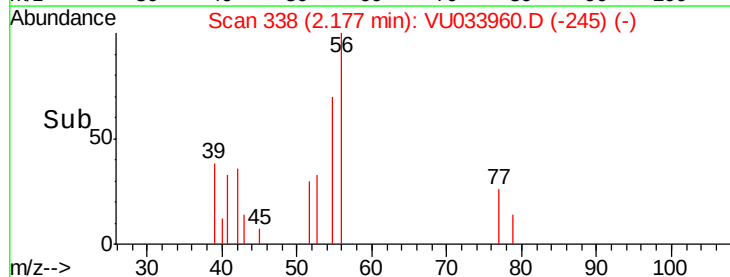
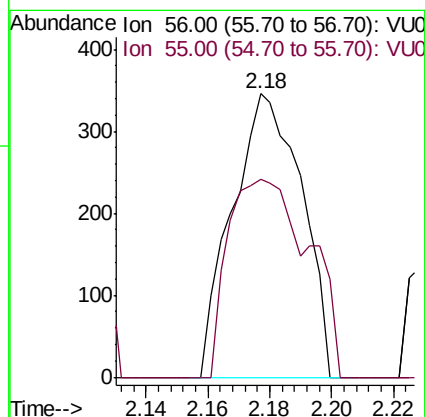
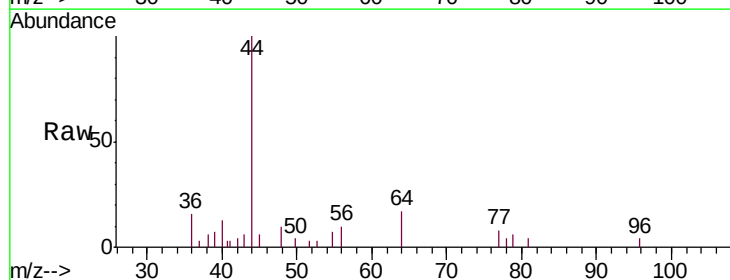
Tgt Ion: 59 Resp: 396
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.2#

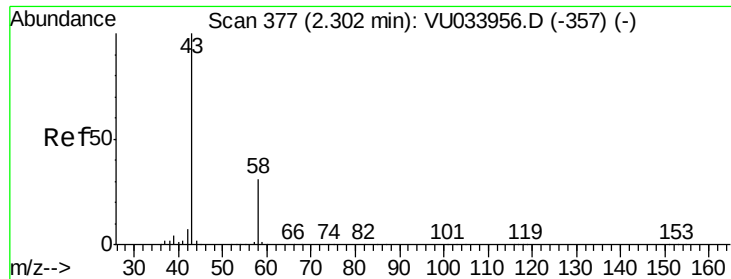


#13

Acrolein
 Concen: 0.690 ug/l
 RT: 2.18 min Scan# 338
 Delta R.T. 0.00 min
 Lab File: VU033960.D
 Acq: 26 Aug 2019 20:11

Tgt Ion: 56 Resp: 541
 Ion Ratio Lower Upper
 56 100
 55 80.8 56.3 84.5





#16

Acetone

Concen: 0.492 ug/l

RT: 2.30 min Scan# 377

Delta R.T. 0.00 min

Lab File: VU033960.D

Acq: 26 Aug 2019 20:11

Instrument :

MSVOA_U

ClientSampleId :

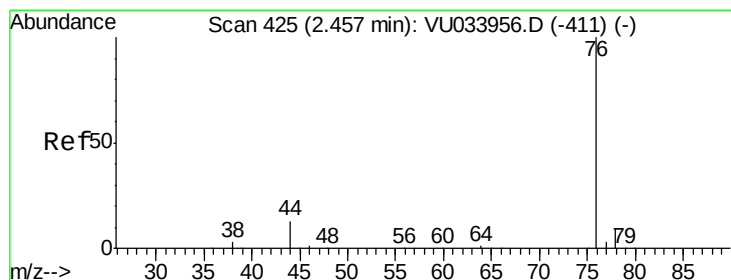
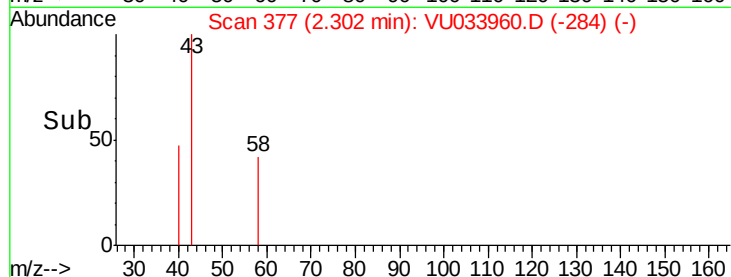
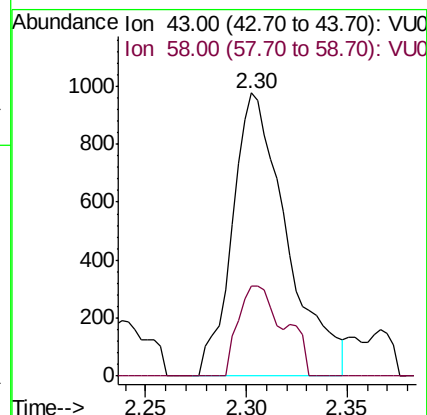
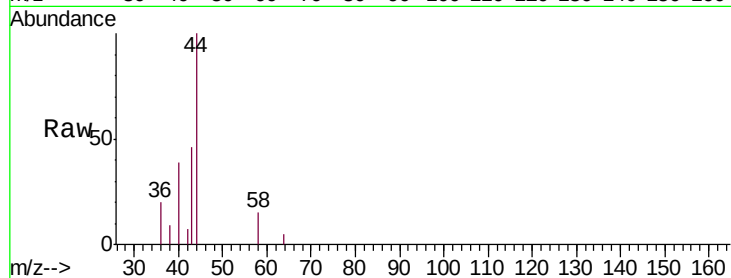
VBLK60

Tgt Ion: 43 Resp: 1847

Ion Ratio Lower Upper

43 100

58 32.0 24.5 36.7



#17

Carbon Disulfide

Concen: 0.377 ug/l

RT: 2.46 min Scan# 426

Delta R.T. 0.00 min

Lab File: VU033960.D

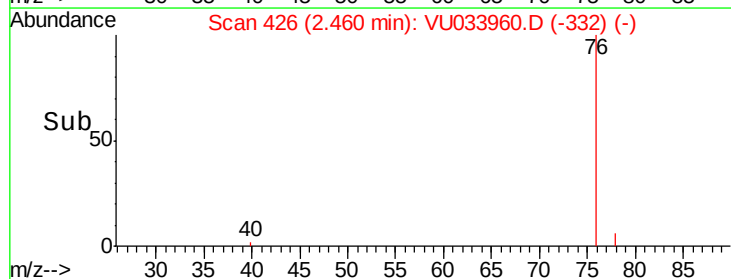
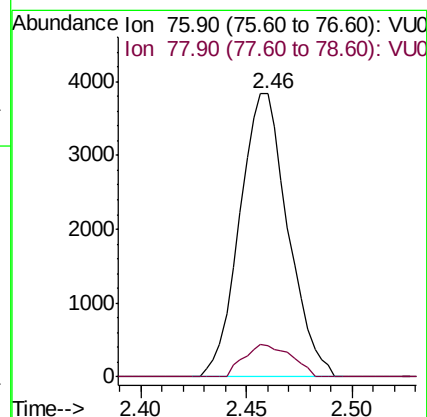
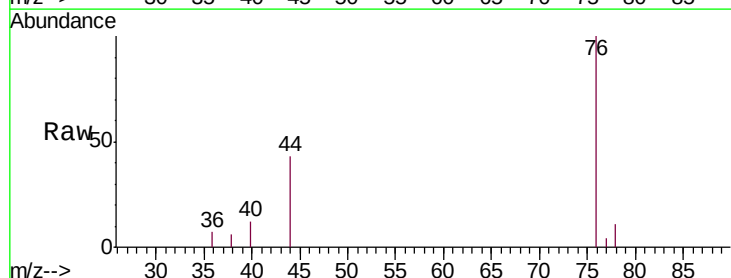
Acq: 26 Aug 2019 20:11

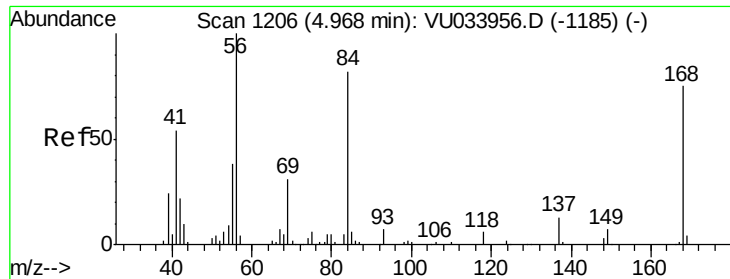
Tgt Ion: 76 Resp: 6095

Ion Ratio Lower Upper

76 100

78 11.2 7.0 10.4#

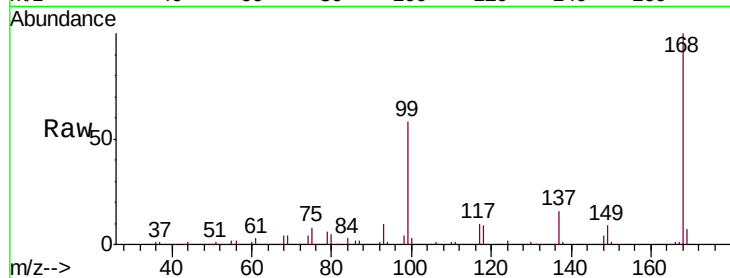




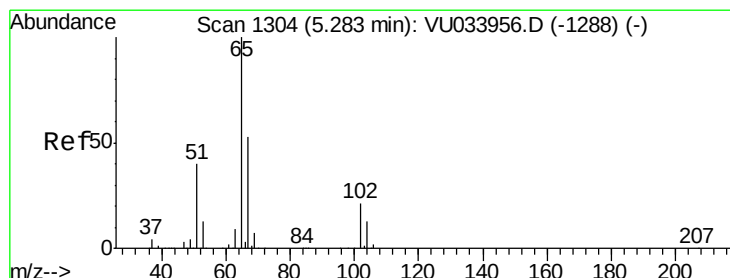
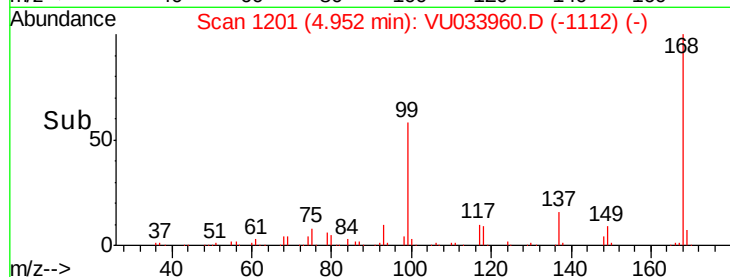
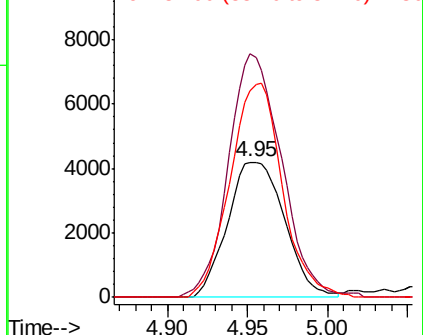
#31
Cyclohexane
Concen: 1.118 ug/l
RT: 4.95 min Scan# 1201
Delta R.T. -0.02 min
Lab File: VU033960.D
Acq: 26 Aug 2019 20:11

Instrument :
MSVOA_U
ClientSampleId :
VBLK60

Tgt Ion: 56 Resp: 10244
Ion Ratio Lower Upper
56 100
69 177.0 24.6 37.0#
84 153.5 65.4 98.0#

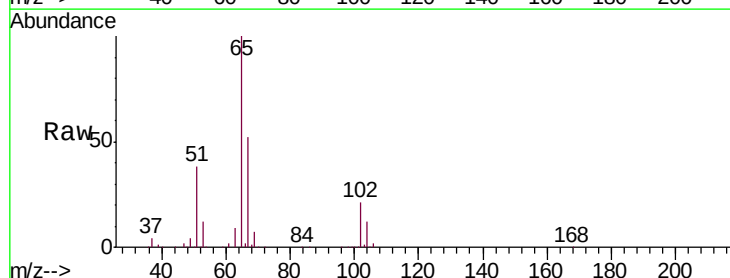


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

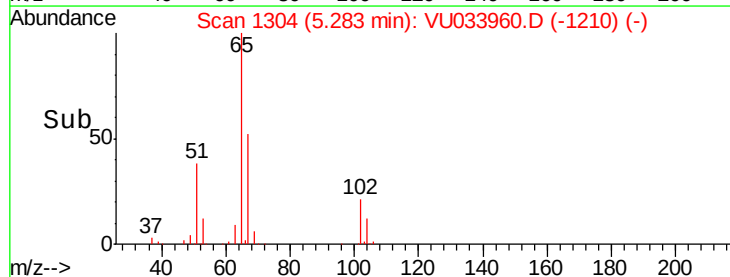
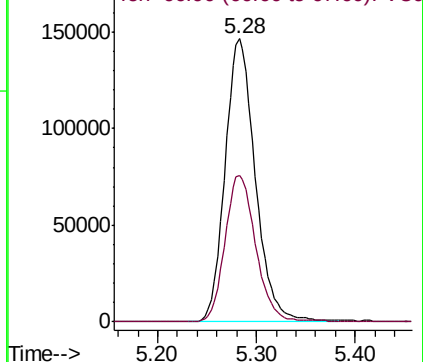


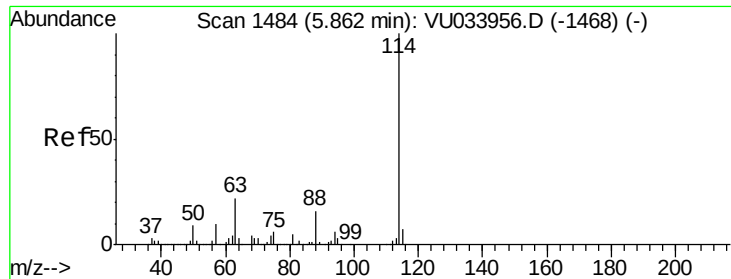
#33
1,2-Dichloroethane-d4
Concen: 49.801 ug/l
RT: 5.28 min Scan# 1304
Delta R.T. 0.00 min
Lab File: VU033960.D
Acq: 26 Aug 2019 20:11

Tgt Ion: 65 Resp: 314117
Ion Ratio Lower Upper
65 100
67 52.6 0.0 107.2



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

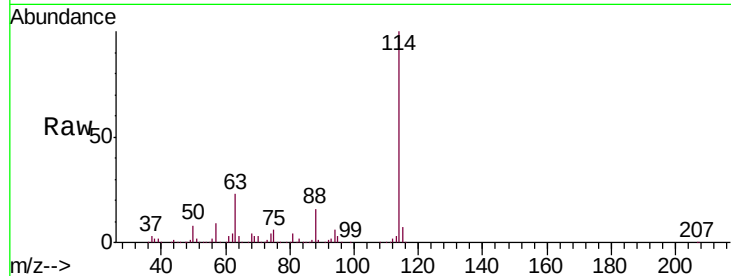




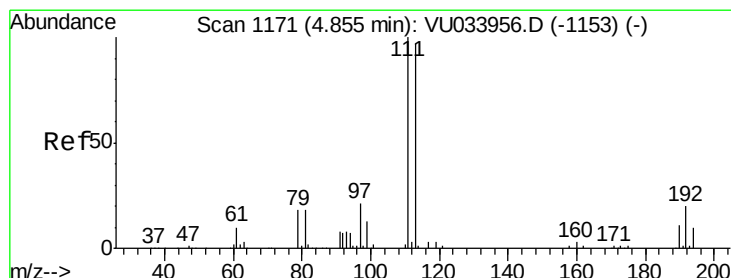
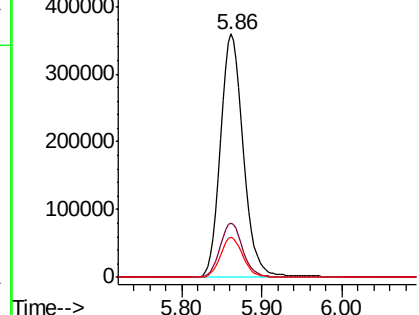
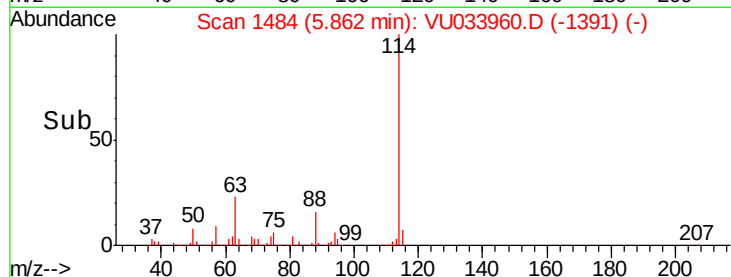
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.86 min Scan# 1484
 Delta R.T. 0.00 min
 Lab File: VU033960.D
 Acq: 26 Aug 2019 20:11

Instrument :
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Tgt Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	44.2
88	16.4	0.0	32.0

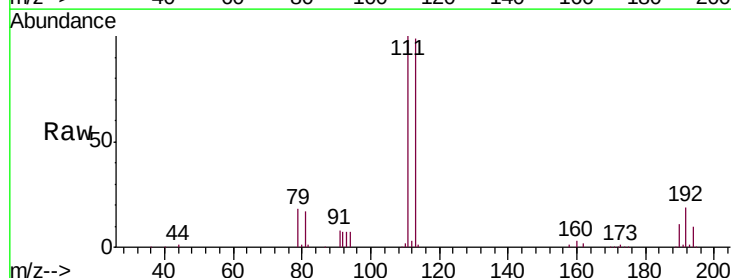


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

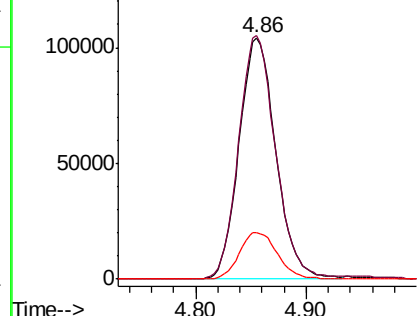
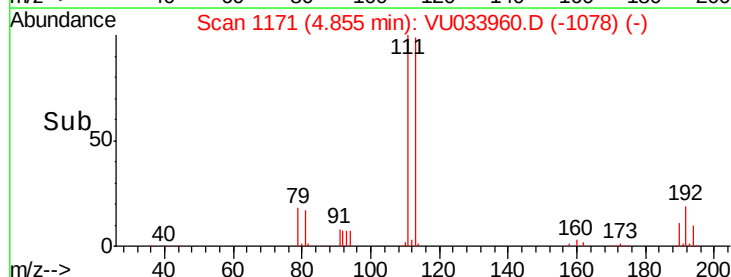


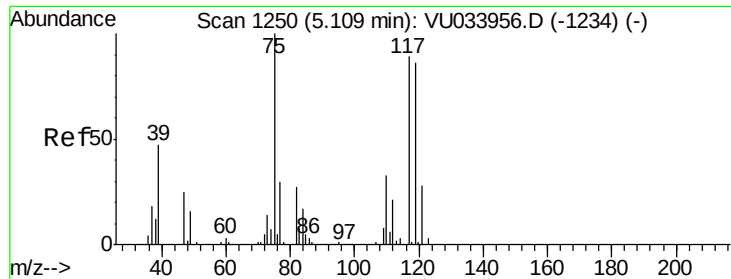
#35
 Dibromofluoromethane
 Concen: 48.362 ug/l
 RT: 4.86 min Scan# 1171
 Delta R.T. 0.00 min
 Lab File: VU033960.D
 Acq: 26 Aug 2019 20:11

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.3	82.0	123.0
192	20.1	16.2	24.4



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

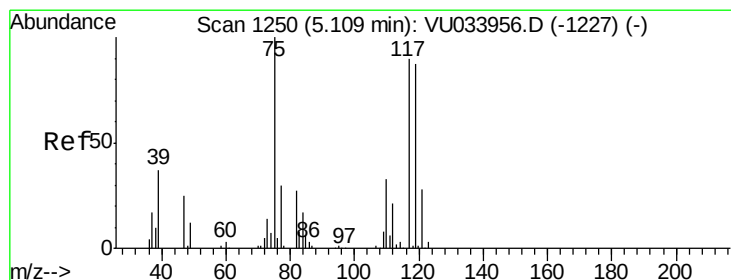
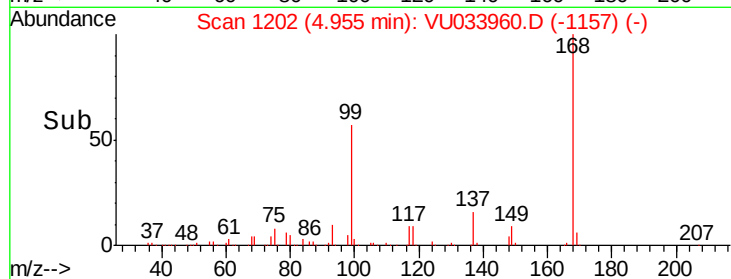
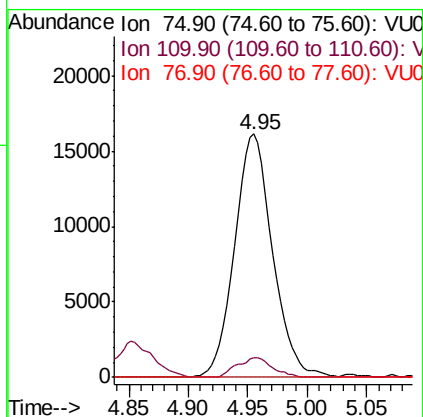
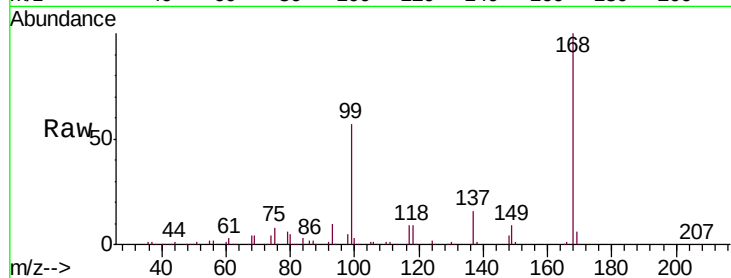




#36
 1,1-Dichloropropene
 Concen: 4.821 ug/l
 RT: 4.95 min Scan# 1202
 Delta R.T. -0.15 min
 Lab File: VU033960.D
 Acq: 26 Aug 2019 20:11

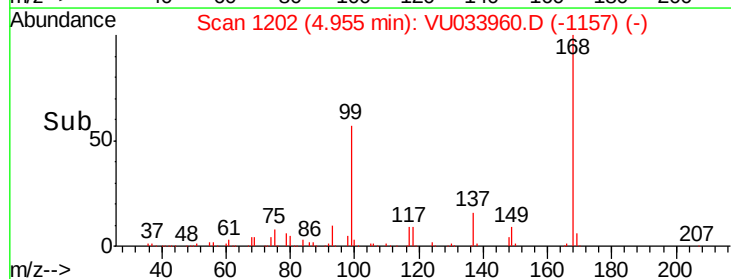
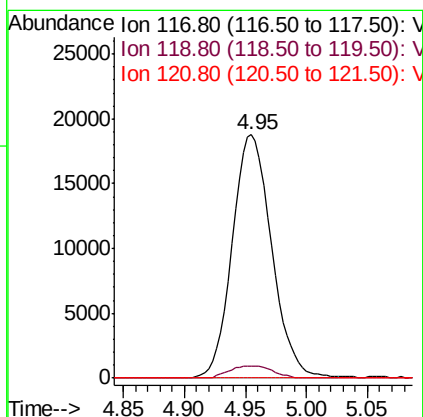
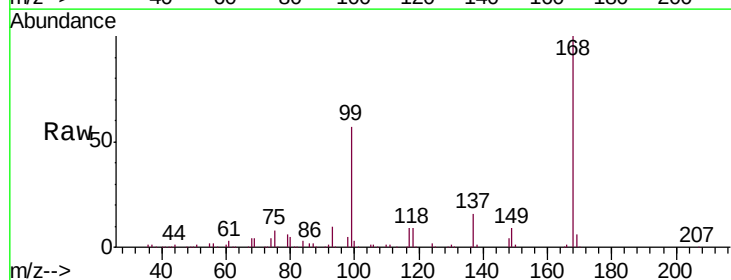
Instrument :
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 VBLK60

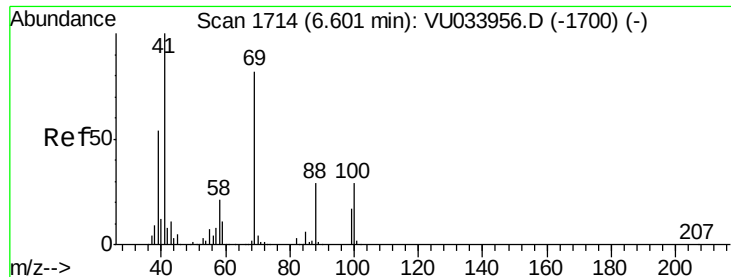
Tgt Ion: 75 Resp: 35645
 Ion Ratio Lower Upper
 75 100
 110 7.5 16.8 50.4#
 77 0.0 24.7 37.1#



#38
 Carbon Tetrachloride
 Concen: 5.706 ug/l
 RT: 4.95 min Scan# 1202
 Delta R.T. -0.15 min
 Lab File: VU033960.D
 Acq: 26 Aug 2019 20:11

Tgt Ion: 117 Resp: 42013
 Ion Ratio Lower Upper
 117 100
 119 4.8 76.9 115.3#
 121 0.0 24.9 37.3#

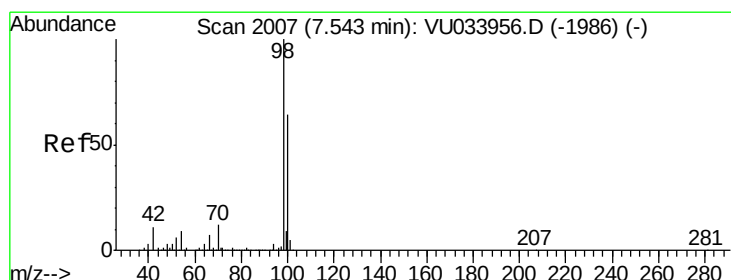
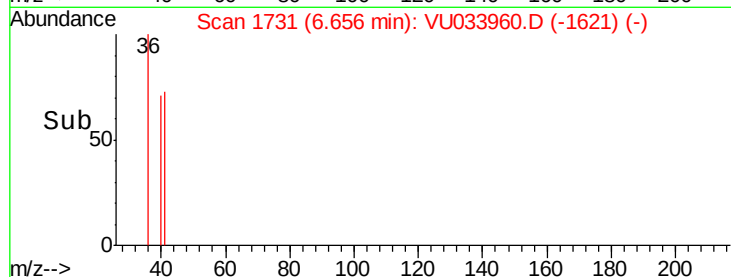
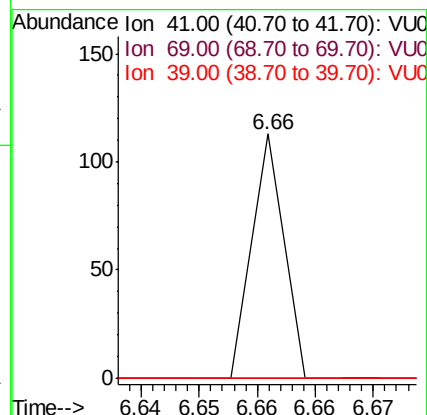
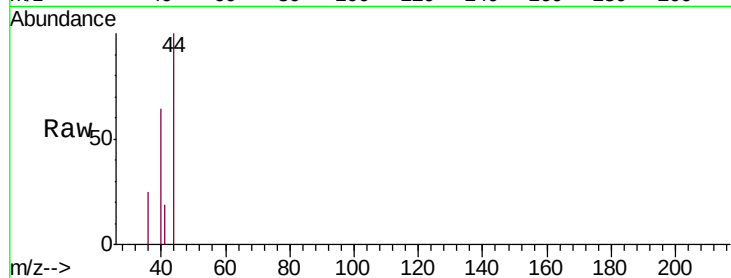




#48
Methyl methacrylate
Concen: 2.315 ug/l
RT: 6.66 min Scan# 1731
Delta R.T. 0.05 min
Lab File: VU033960.D
Acq: 26 Aug 2019 20:11

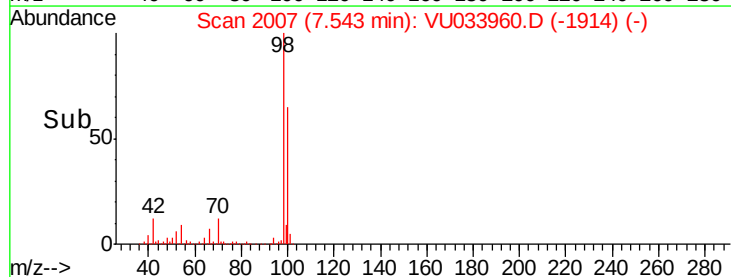
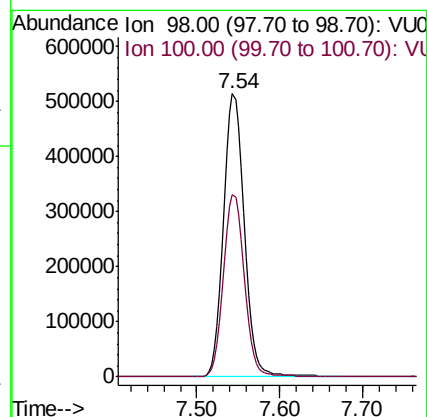
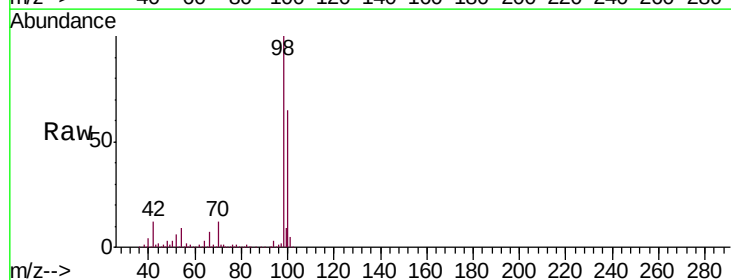
Instrument :
MSVOA_U
ClientSampleId :
VBLK60

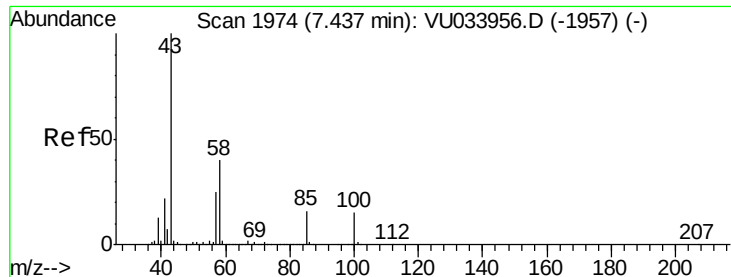
Tgt Ion: 41 Resp: 22
Ion Ratio Lower Upper
41 100
69 0.0 66.9 100.3#
39 0.0 43.3 64.9#



#50
Toluene-d8
Concen: 48.427 ug/l
RT: 7.54 min Scan# 2007
Delta R.T. 0.00 min
Lab File: VU033960.D
Acq: 26 Aug 2019 20:11

Tgt Ion: 98 Resp: 892377
Ion Ratio Lower Upper
98 100
100 64.9 51.8 77.6

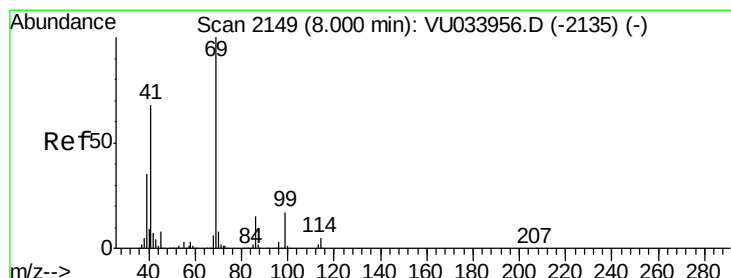
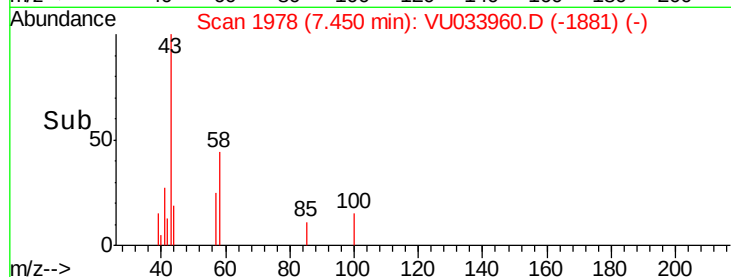
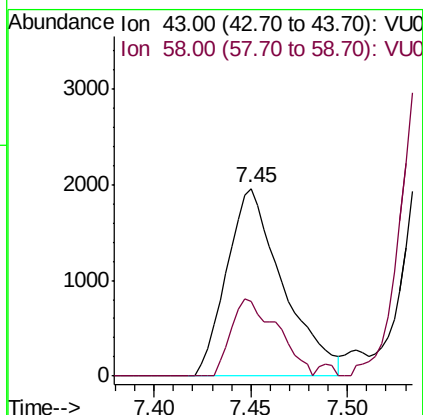
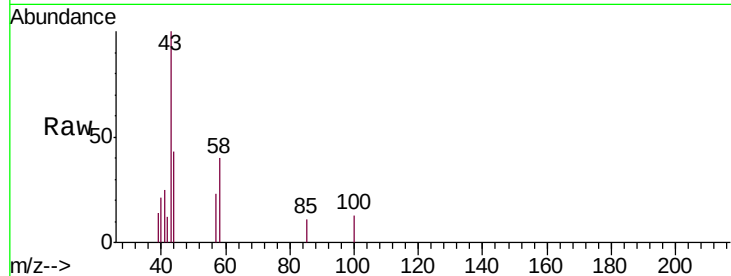




#51
 4-Methyl-2-Pentanone
 Concen: 0.454 ug/l
 RT: 7.45 min Scan# 1978
 Delta R.T. 0.01 min
 Lab File: VU033960.D
 Acq: 26 Aug 2019 20:11

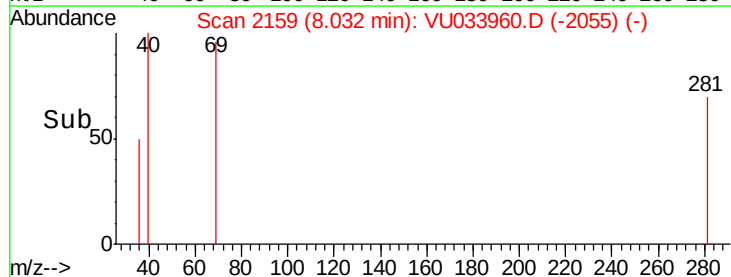
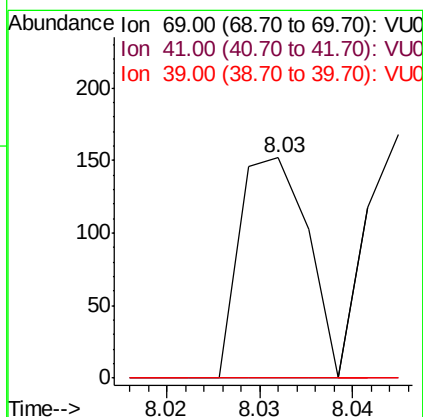
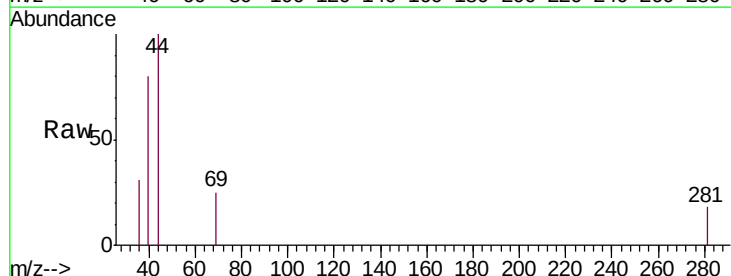
Instrument :
 MSVOA_U
 ClientSampleId :
 VBLK60

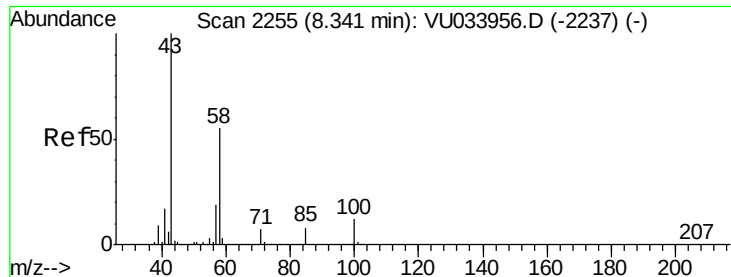
Tgt Ion: 43 Resp: 3954
 Ion Ratio Lower Upper
 43 100
 58 33.9 31.6 47.4



#56
 Ethyl methacrylate
 Concen: 3.344 ug/l
 RT: 8.03 min Scan# 2159
 Delta R.T. 0.03 min
 Lab File: VU033960.D
 Acq: 26 Aug 2019 20:11

Tgt Ion: 69 Resp: 77
 Ion Ratio Lower Upper
 69 100
 41 0.0 54.1 81.1#
 39 0.0 28.1 42.1#

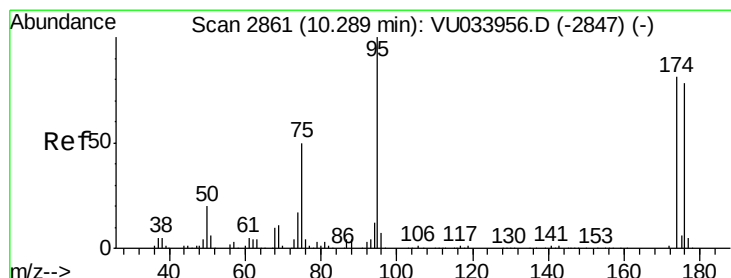
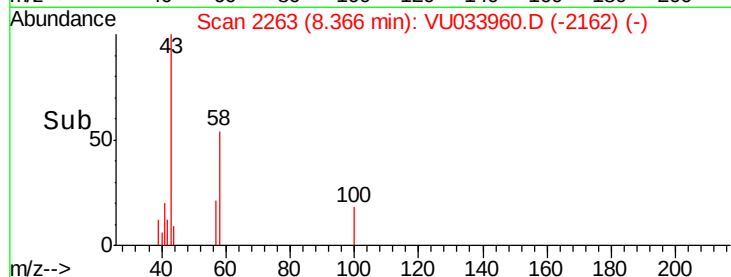
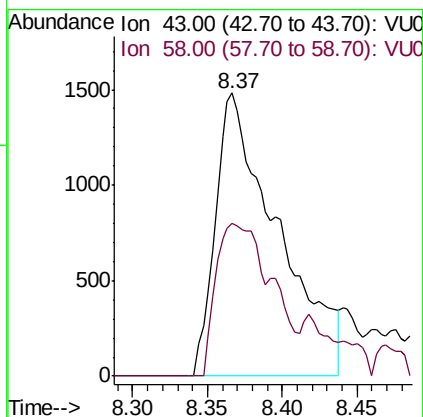
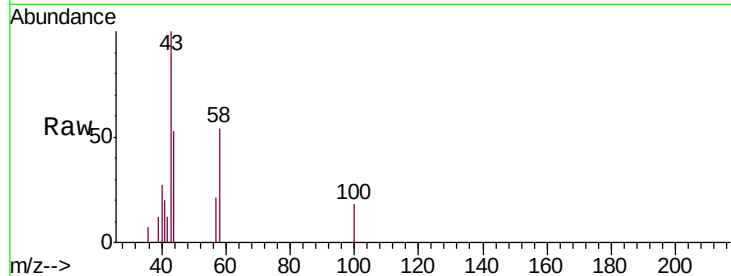




#59
 2-Hexanone
 Concen: 0.644 ug/l
 RT: 8.37 min Scan# 2263
 Delta R.T. 0.03 min
 Lab File: VU033960.D
 Acq: 26 Aug 2019 20:11

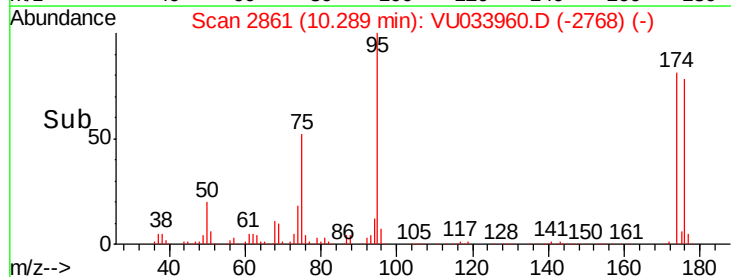
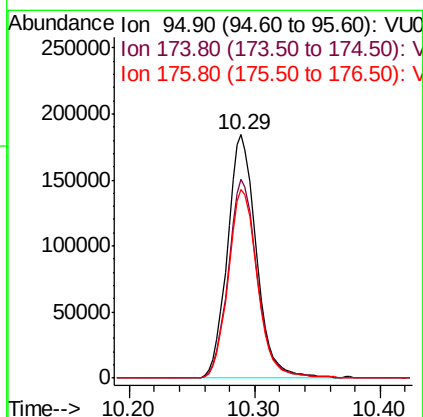
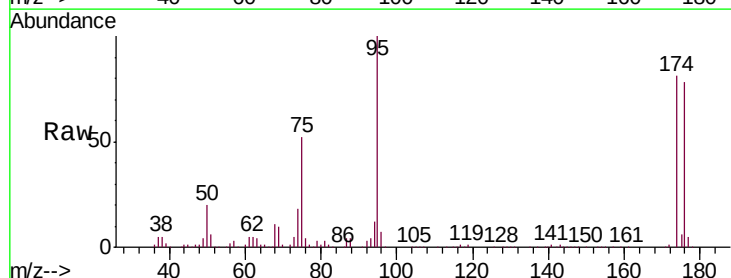
Instrument :
 MSVOA_U
 ClientSampleId :
 VBLK60

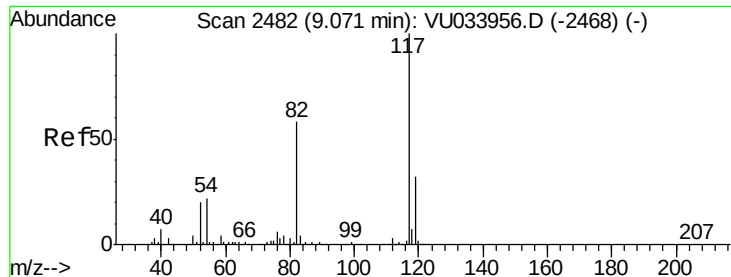
Tgt Ion: 43 Resp: 4282
 Ion Ratio Lower Upper
 43 100
 58 49.1 27.3 81.9



#62
 4-Bromofluorobenzene
 Concen: 41.484 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. 0.00 min
 Lab File: VU033960.D
 Acq: 26 Aug 2019 20:11

Tgt Ion: 95 Resp: 294681
 Ion Ratio Lower Upper
 95 100
 174 82.1 0.0 160.4
 176 78.5 0.0 154.2

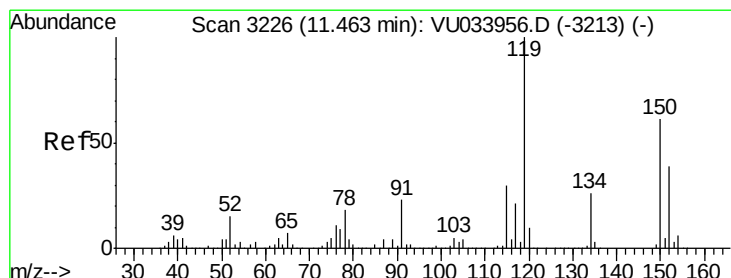
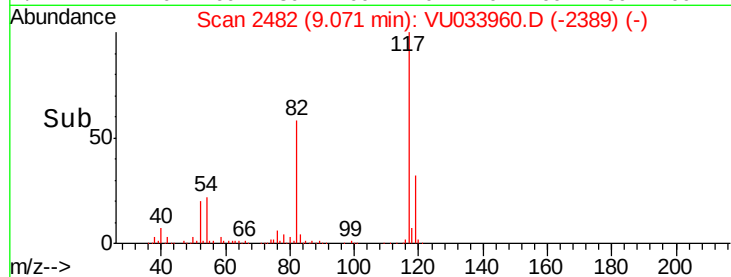
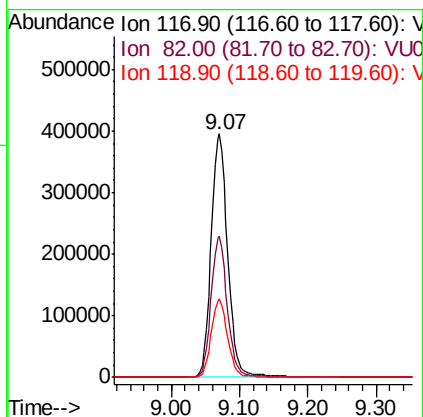
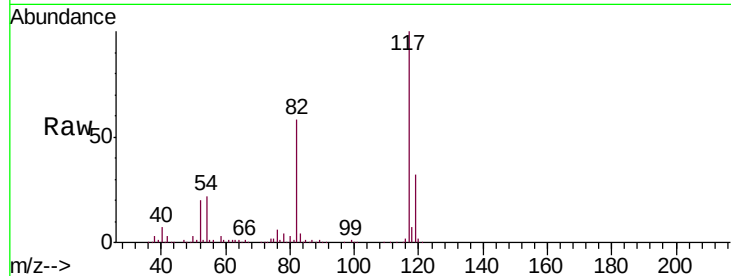




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU033960.D
Acq: 26 Aug 2019 20:11

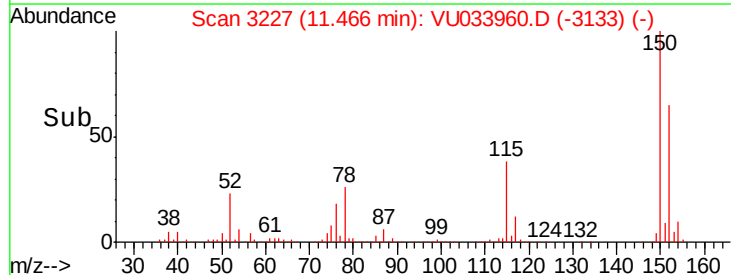
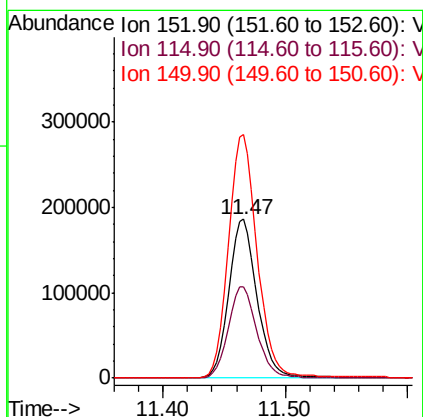
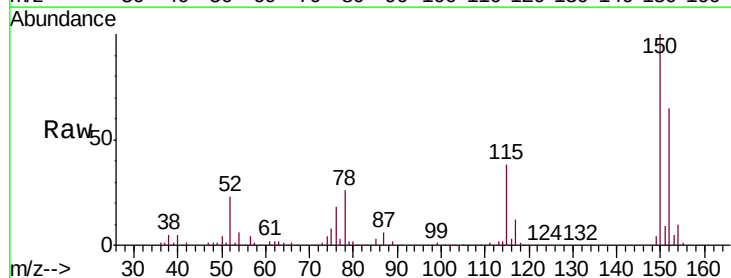
Instrument :
MSVOA_U
ClientSampleId :
VBLK60

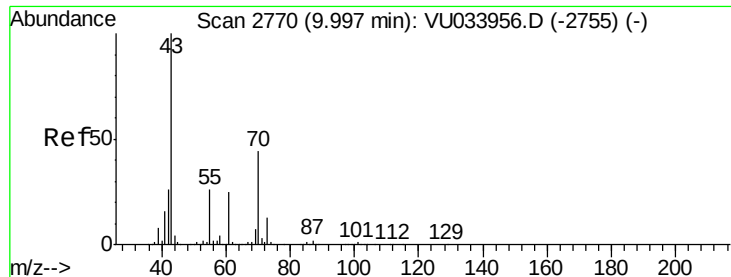
Tgt Ion	Ratio	Lower	Upper
117	100		
82	57.9	46.4	69.6
119	32.0	25.3	37.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.47 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VU033960.D
Acq: 26 Aug 2019 20:11

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.3	40.3	120.9
150	156.4	0.0	346.0





#74

N-amyI acetate

Concen: 3.677 ug/l

RT: 10.01 min Scan# 2774

Delta R.T. 0.01 min

Lab File: VU033960.D

Acq: 26 Aug 2019 20:11

Instrument :

MSVOA_U

ClientSampleId :

VBLK60

Tgt Ion: 43 Resp: 921

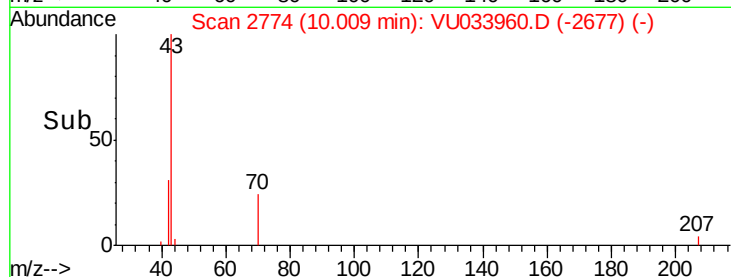
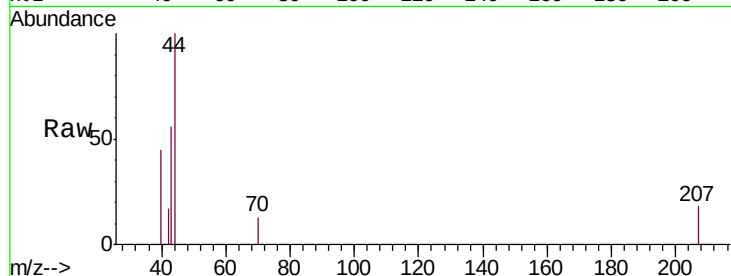
Ion Ratio Lower Upper

43 100

70 14.3 34.5 51.7#

55 0.0 20.9 31.3#

61 0.0 19.7 29.5#

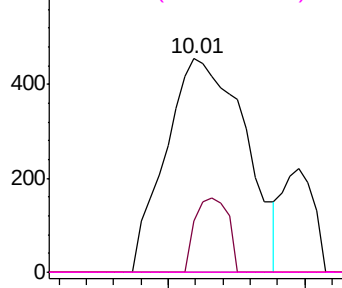


Abundance Ion 43.00 (42.70 to 43.70): VU0

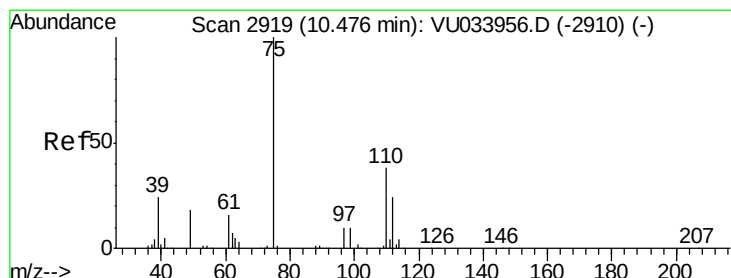
Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0



Time-->



#76

1,2,3-Trichloropropane

Concen: 21.877 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU033960.D

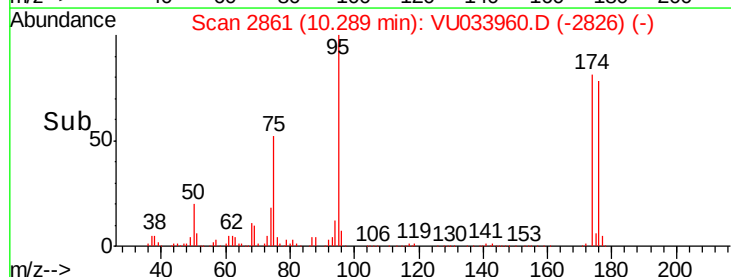
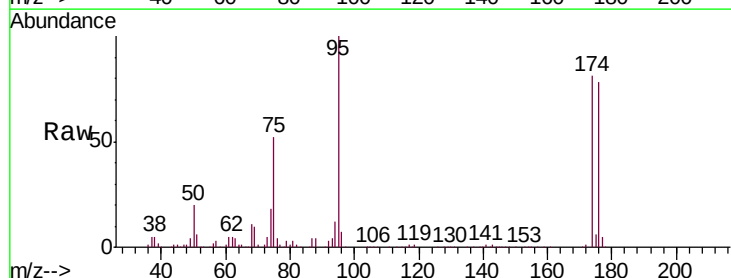
Acq: 26 Aug 2019 20:11

Tgt Ion: 75 Resp: 152914

Ion Ratio Lower Upper

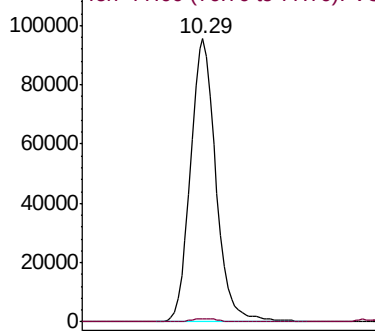
75 100

77 1.3 20.1 60.3#

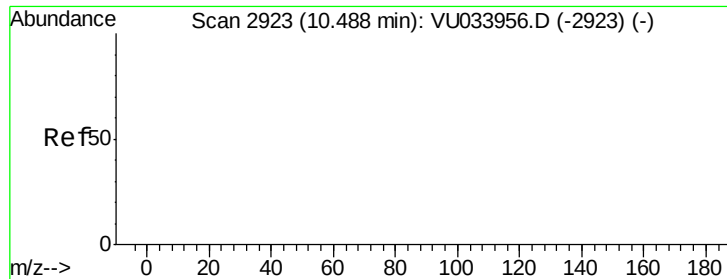


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0



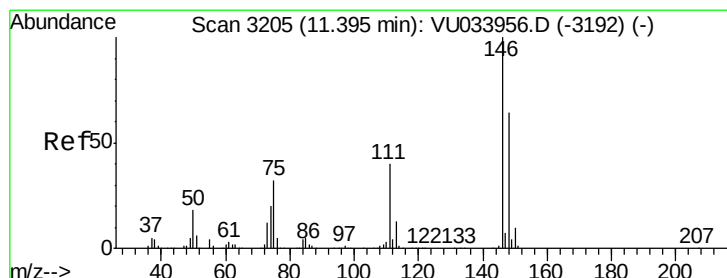
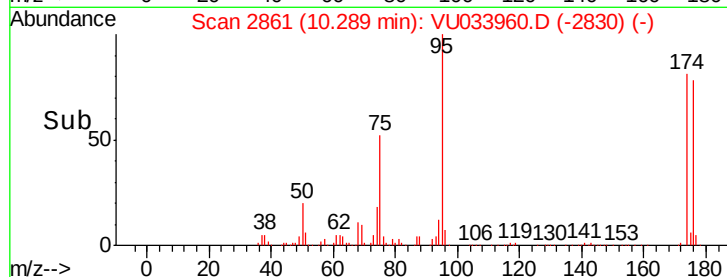
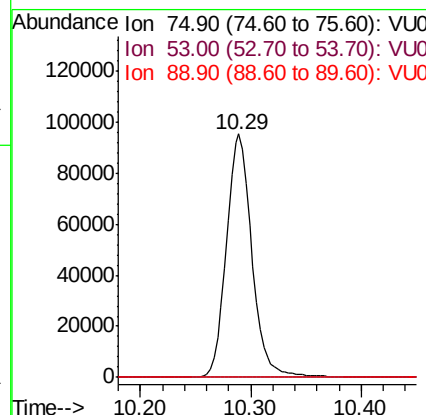
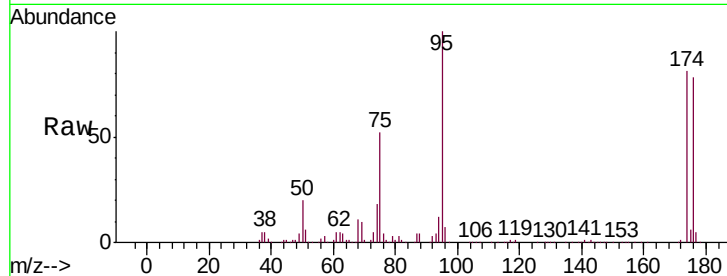
Time-->



#81
 trans-1,4-Dichloro-2-butene
 Concen: 58.334 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.20 min
 Lab File: VU033960.D
 Acq: 26 Aug 2019 20:11

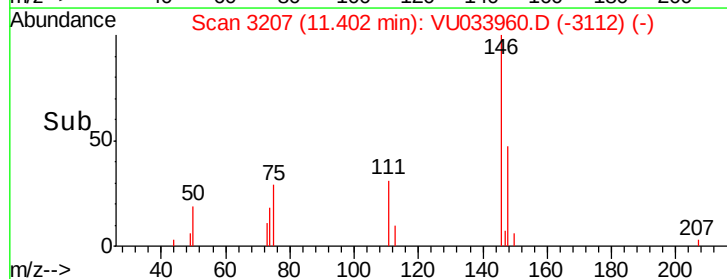
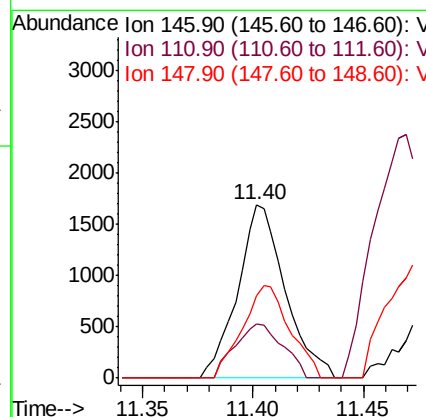
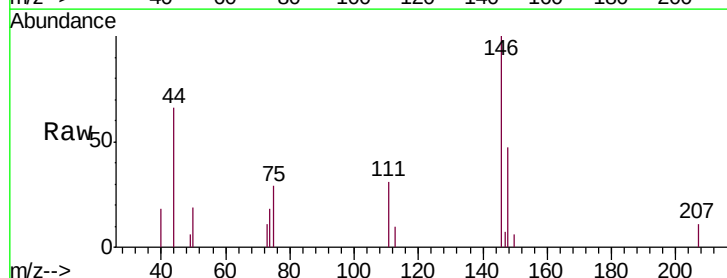
Instrument :
 MSVOA_U
 ClientSampleId :
 VBLK60

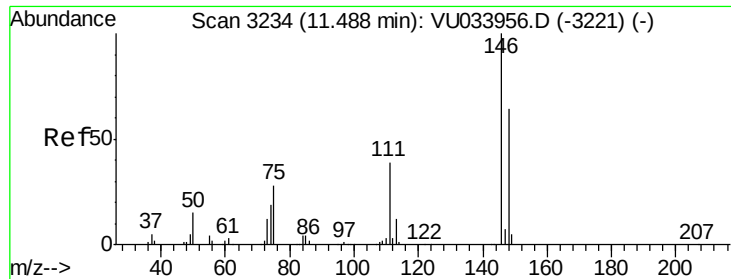
Tgt Ion: 75 Resp: 152914
 Ion Ratio Lower Upper
 75 100
 53 0.2 0.0 0.0#
 89 0.0 0.0 0.0



#87
 1,3-Dichlorobenzene
 Concen: 0.268 ug/l
 RT: 11.40 min Scan# 3207
 Delta R.T. 0.01 min
 Lab File: VU033960.D
 Acq: 26 Aug 2019 20:11

Tgt Ion: 146 Resp: 2529
 Ion Ratio Lower Upper
 146 100
 111 31.3 20.1 60.2
 148 52.8 31.8 95.4

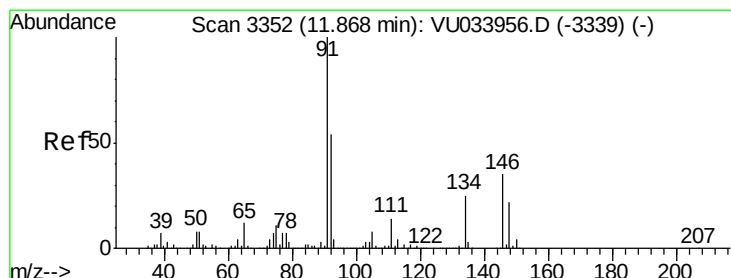
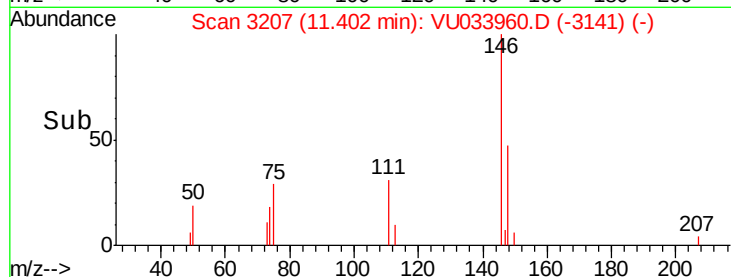
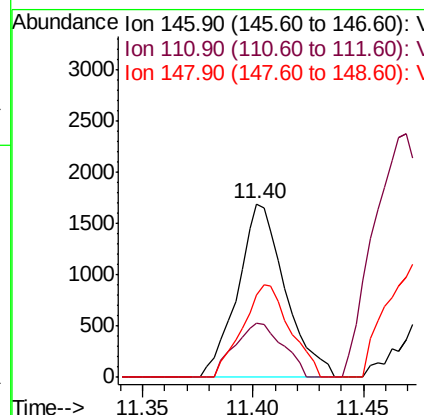
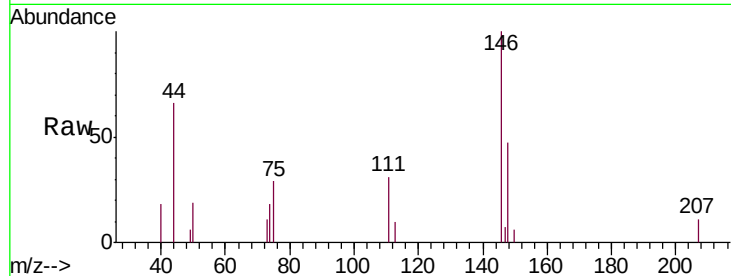




#88
 1,4-Dichlorobenzene
 Concen: 0.259 ug/l
 RT: 11.40 min Scan# 3207
 Delta R.T. -0.09 min
 Lab File: VU033960.D
 Acq: 26 Aug 2019 20:11

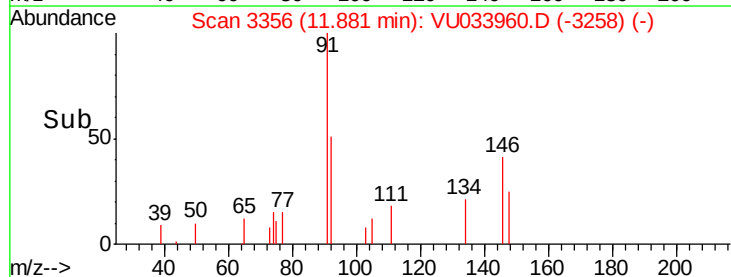
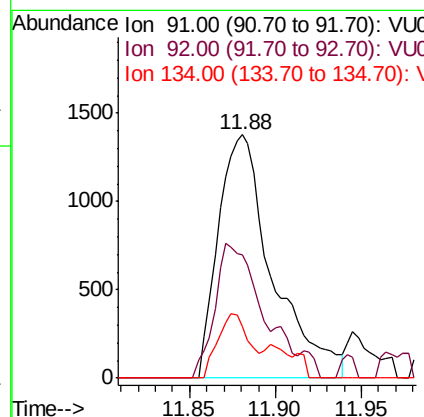
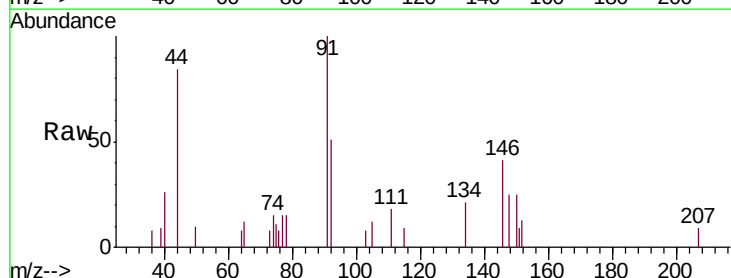
Instrument :
 MSVOA_U
 ClientSampleId :
 VBLK60

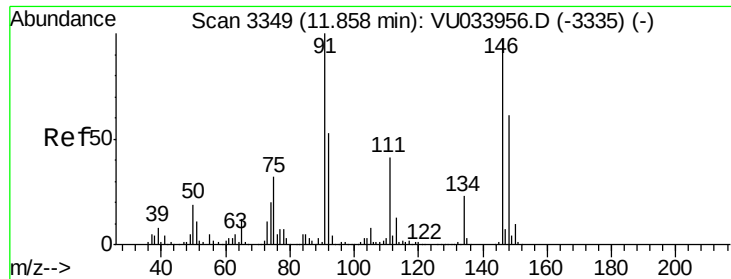
Tgt Ion: 146 Resp: 2529
 Ion Ratio Lower Upper
 146 100
 111 31.3 19.8 59.4
 148 52.8 32.2 96.6



#89
 n-Butylbenzene
 Concen: 2.831 ug/l
 RT: 11.88 min Scan# 3356
 Delta R.T. 0.01 min
 Lab File: VU033960.D
 Acq: 26 Aug 2019 20:11

Tgt Ion: 91 Resp: 3019
 Ion Ratio Lower Upper
 91 100
 92 48.8 26.9 80.6
 134 15.4 12.6 37.6

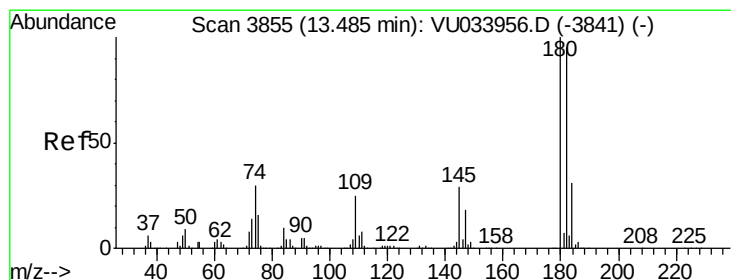
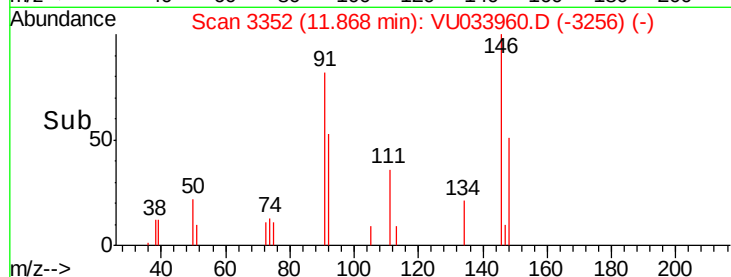
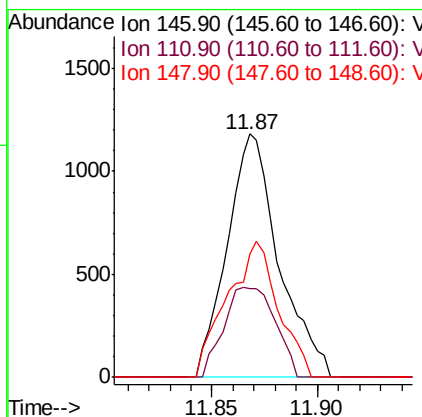
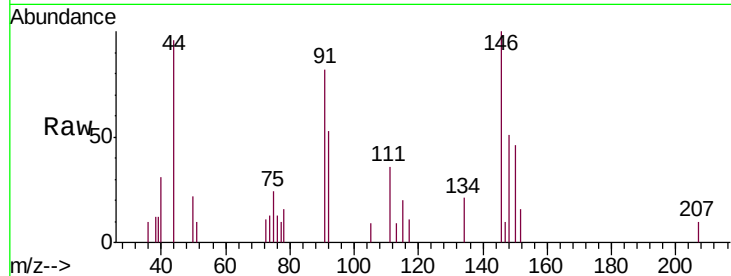




#91
 1,2-Dichlorobenzene
 Concen: 0.223 ug/l
 RT: 11.87 min Scan# 3352
 Delta R.T. 0.01 min
 Lab File: VU033960.D
 Acq: 26 Aug 2019 20:11

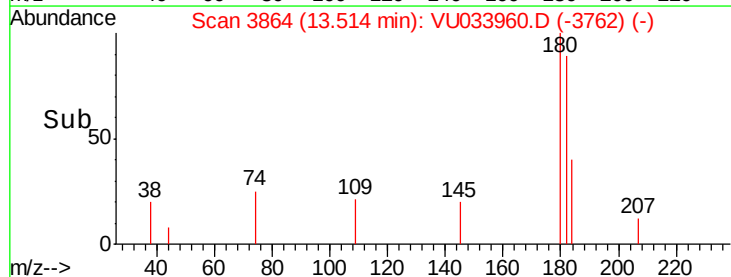
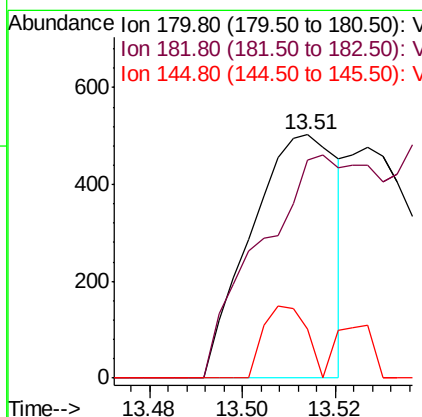
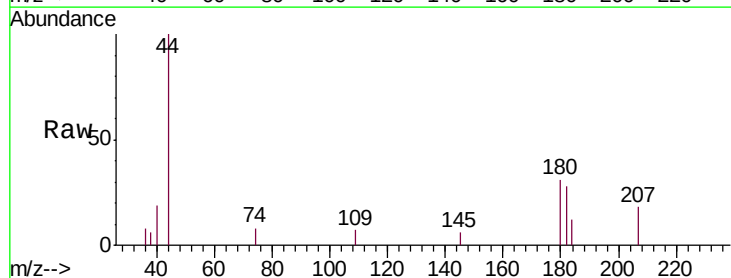
Instrument :
 MSVOA_U
 ClientSampleId :
 VBLK60

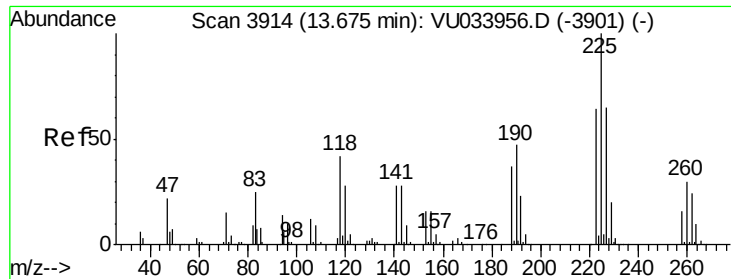
Tgt Ion:146 Resp: 2012
 Ion Ratio Lower Upper
 146 100
 111 36.6 21.1 63.1
 148 55.1 31.7 95.1



#93
 1,2,4-Trichlorobenzene
 Concen: 3.557 ug/l
 RT: 13.51 min Scan# 3864
 Delta R.T. 0.03 min
 Lab File: VU033960.D
 Acq: 26 Aug 2019 20:11

Tgt Ion:180 Resp: 650
 Ion Ratio Lower Upper
 180 100
 182 123.7 47.4 142.3
 145 15.1 14.2 42.8





#94

Hexachlorobutadiene

Concen: 0.304 ug/l

RT: 13.67 min Scan# 3914

Delta R.T. 0.00 min

Lab File: VU033960.D

Acq: 26 Aug 2019 20:11

Instrument :

MSVOA_U

ClientSampleId :

VBLK60

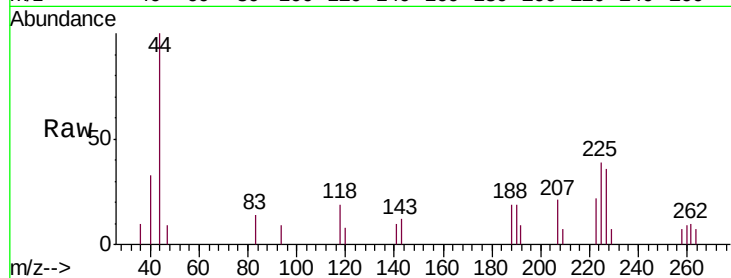
Tgt Ion:225 Resp: 1027

Ion Ratio Lower Upper

225 100

223 50.7 31.4 94.0

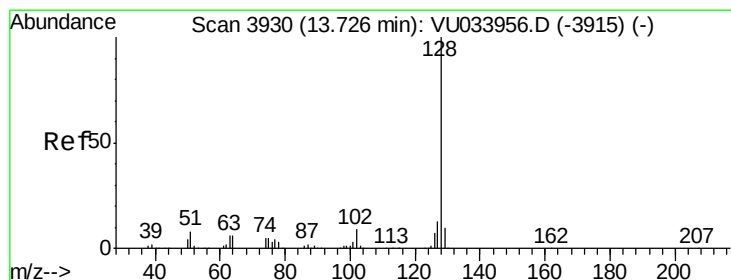
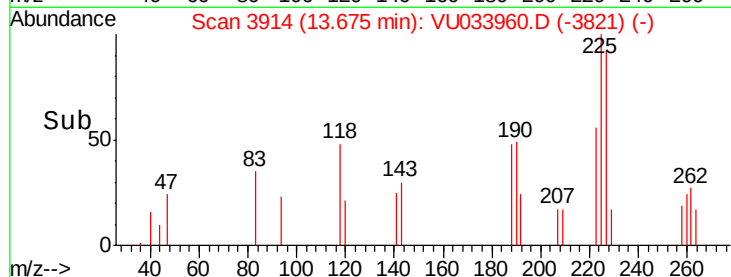
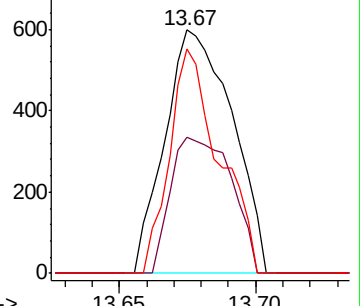
227 68.2 32.3 96.8



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 4.653 ug/l

RT: 13.77 min Scan# 3943

Delta R.T. 0.04 min

Lab File: VU033960.D

Acq: 26 Aug 2019 20:11

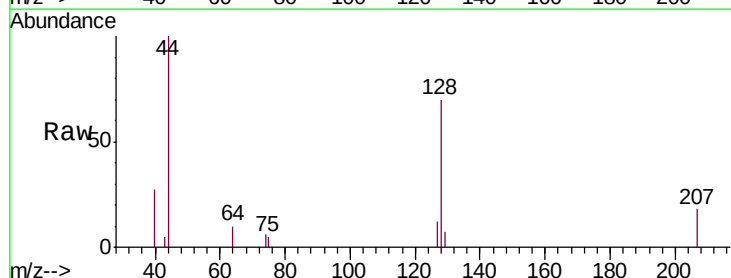
Tgt Ion:128 Resp: 3113

Ion Ratio Lower Upper

128 100

127 13.9 10.1 15.1

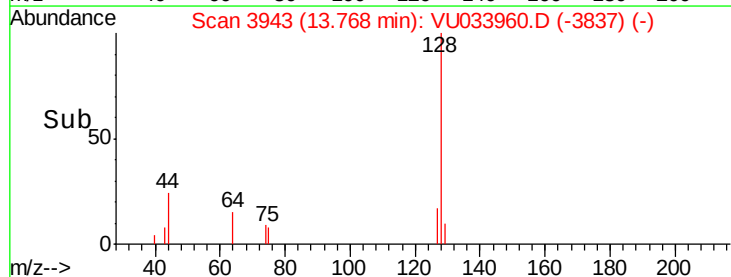
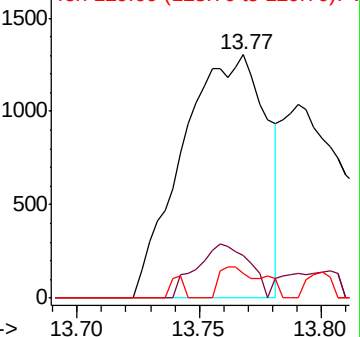
129 6.5 8.3 12.5#

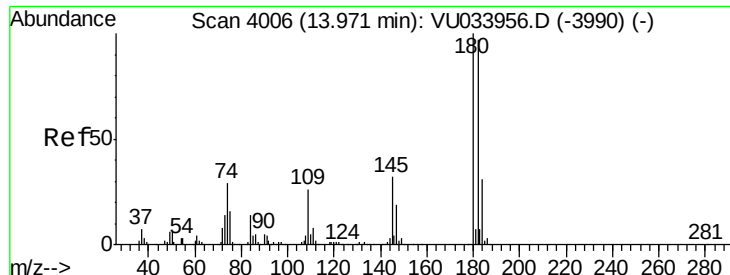


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 3.155 ug/l
 RT: 13.99 min Scan# 4012
 Delta R.T. 0.02 min
 Lab File: VU033960.D
 Acq: 26 Aug 2019 20:11

Instrument :
 MSVOA_U
 ClientSampleId :
 VBLK60

Tgt Ion:180 Resp: 871
 Ion Ratio Lower Upper
 180 100
 182 249.7 48.6 145.8#
 145 40.1 15.7 47.0

