

Data File : VU033963.D
Acq On : 26 Aug 2019 21:47
Operator : JC/SP
Sample : K4514-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
TB-03-082319

Quant Time: Aug 27 08:01:21 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	428001	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	694795	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	648314	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	280433	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.28	65	309721	50.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.72%	
35) Dibromofluoromethane	4.86	113	235837	48.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.60%	
50) Toluene-d8	7.54	98	898306	50.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.50%	
62) 4-Bromofluorobenzene	10.29	95	286250	41.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.08%	

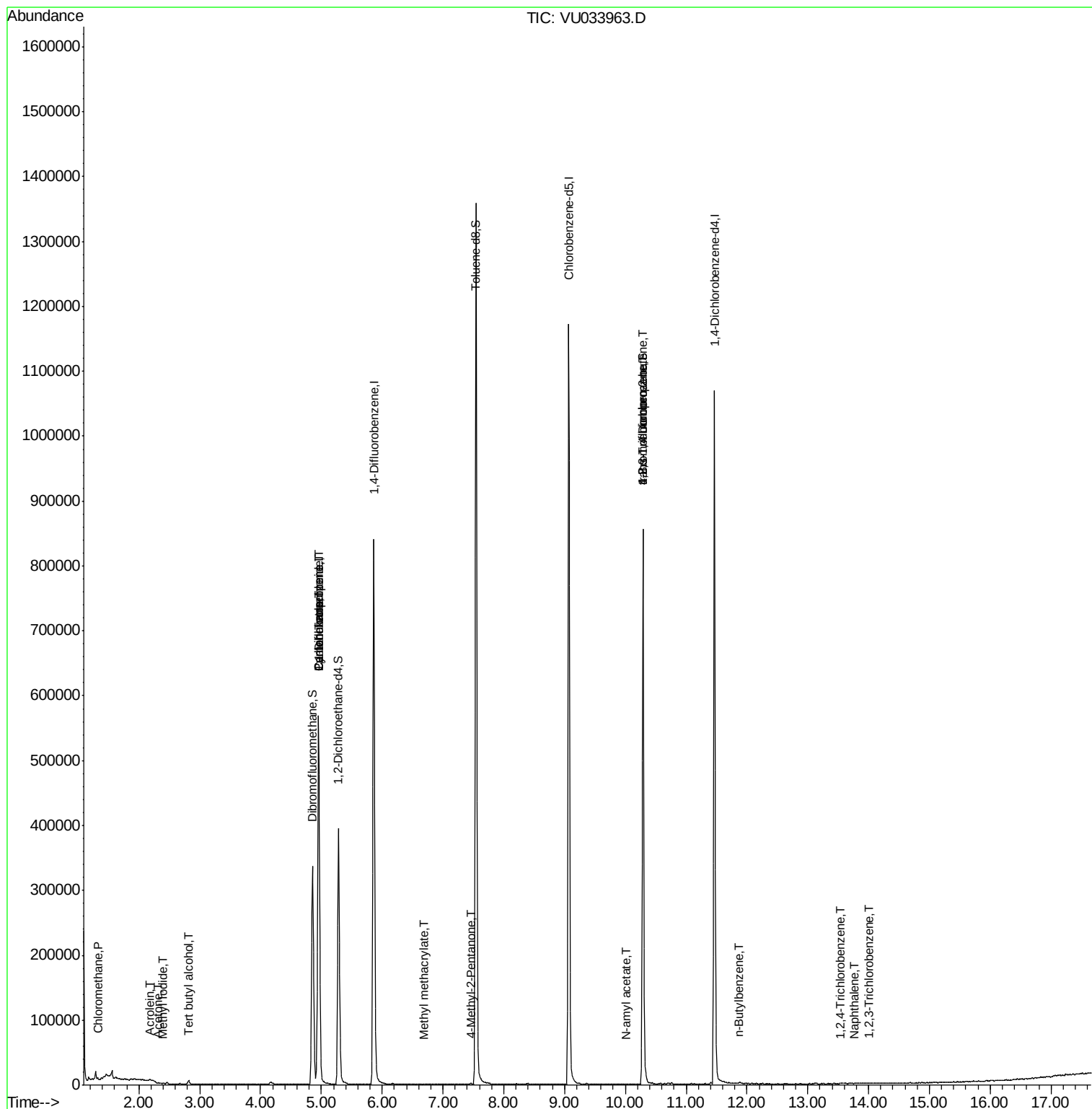
Target Compounds				Qvalue		
3) Chloromethane	1.32	50	3524	0.570	ug/l	98
5) Bromomethane	1.61	94	1746	Below Cal		88
10) Methyl Iodide	2.40	142	1061	5.387	ug/l #	88
11) Tert butyl alcohol	2.81	59	3430	2.668	ug/l #	73
13) Acrolein	2.19	56	219	0.286	ug/l #	60
16) Acetone	2.31	43	1077	0.294	ug/l #	44
31) Cyclohexane	4.95	56	9866	1.104	ug/l #	1
36) 1,1-Dichloropropene	4.95	75	35084	4.891	ug/l #	49
38) Carbon Tetrachloride	4.96	117	42583	5.961	ug/l #	17
48) Methyl methacrylate	6.68	41	20	2.315	ug/l #	14
51) 4-Methyl-2-Pentanone	7.45	43	1704	0.202	ug/l	99
74) N-amyl acetate	10.01	43	311	3.622	ug/l #	42
76) 1,2,3-Trichloropropane	10.29	75	144606	22.289	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	144606	59.432	ug/l #	100
89) n-Butylbenzene	11.88	91	450	2.698	ug/l #	80
93) 1,2,4-Trichlorobenzene	13.53	180	101	3.479	ug/l #	1
95) Naphthalene	13.77	128	361	4.526	ug/l #	70
96) 1,2,3-Trichlorobenzene	14.01	180	355	3.083	ug/l #	61

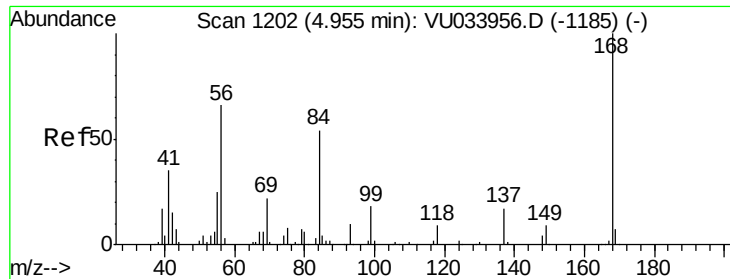
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU033963.D

Acq: 26 Aug 2019 21:47

Instrument :

MSVOA_U

ClientSampleId :

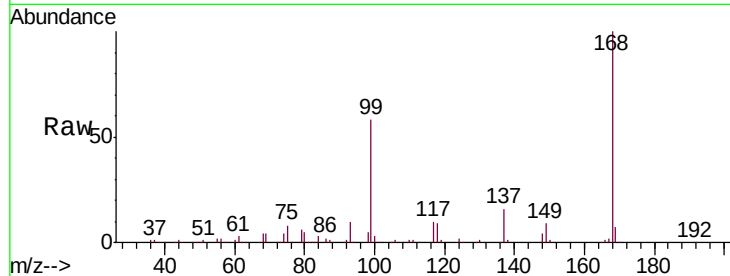
TB-03-082319

Tgt Ion:168 Resp: 428001

Ion Ratio Lower Upper

168 100

99 57.7 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

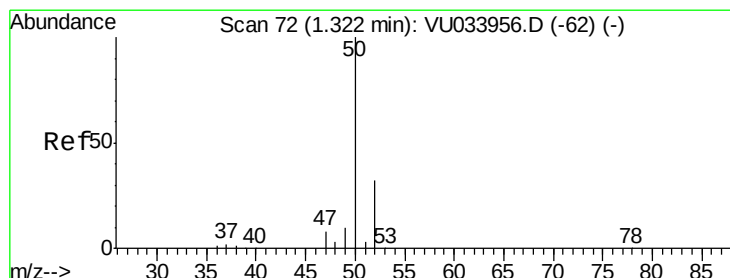
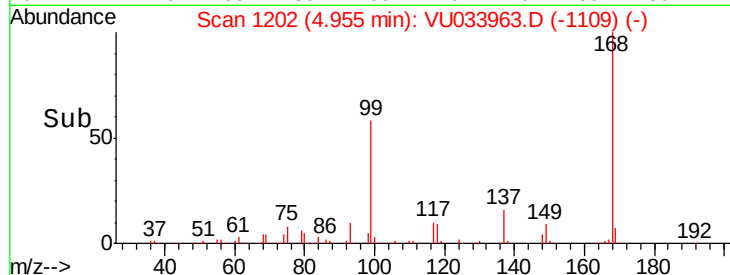
100000

50000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: 0.570 ug/l

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU033963.D

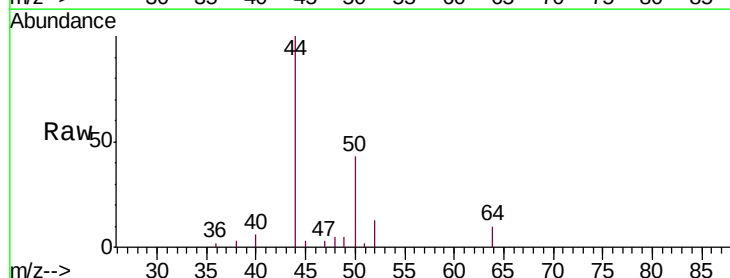
Acq: 26 Aug 2019 21:47

Tgt Ion: 50 Resp: 3524

Ion Ratio Lower Upper

50 100

52 31.0 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

3000

2500

2000

1500

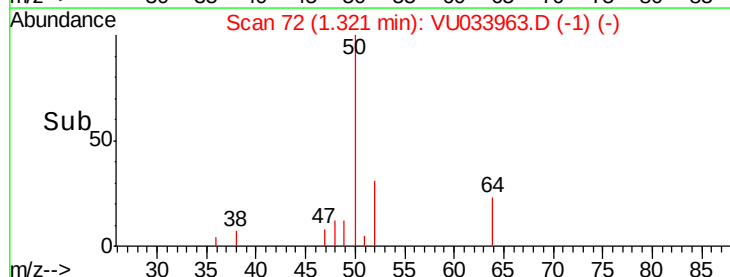
1000

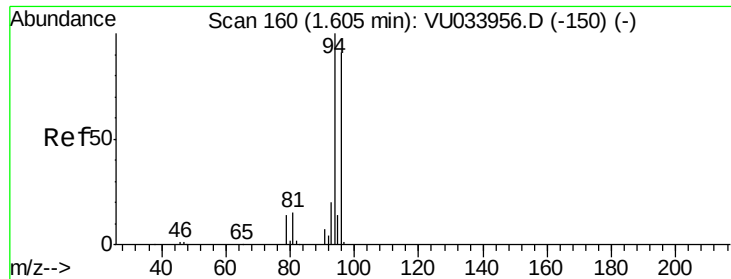
500

0

1.30 1.35

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 163

Delta R.T. 0.01 min

Lab File: VU033963.D

Acq: 26 Aug 2019 21:47

Instrument :

MSVOA_U

ClientSampleId :

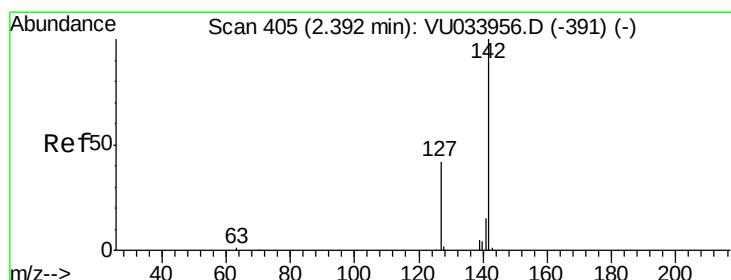
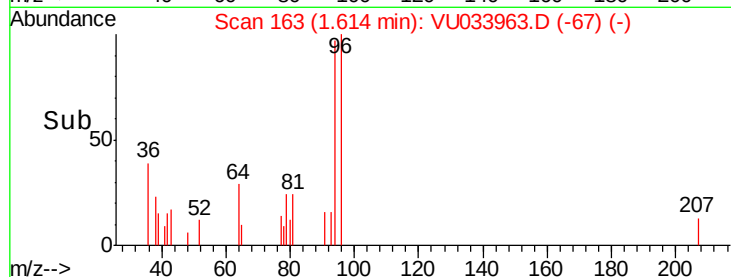
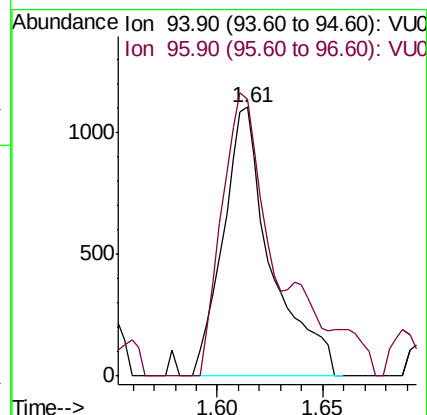
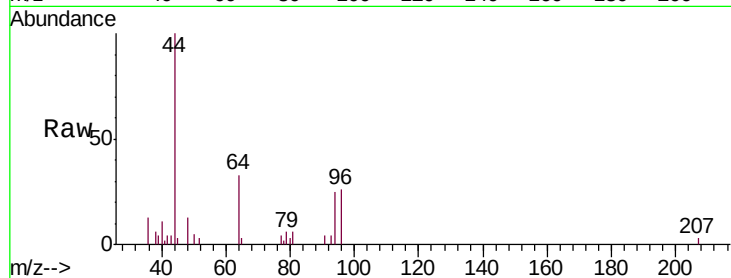
TB-03-082319

Tgt Ion: 94 Resp: 1746

Ion Ratio Lower Upper

94 100

96 102.7 73.2 109.8



#10

Methyl Iodide

Concen: 5.387 ug/l

RT: 2.40 min Scan# 406

Delta R.T. 0.00 min

Lab File: VU033963.D

Acq: 26 Aug 2019 21:47

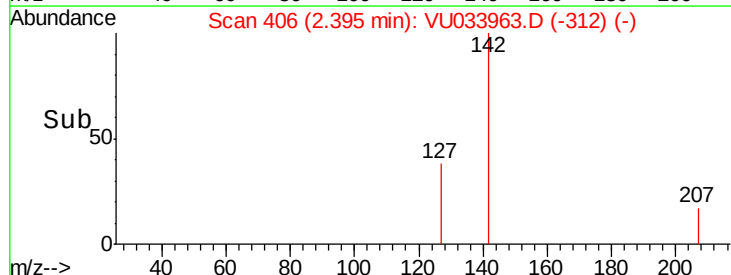
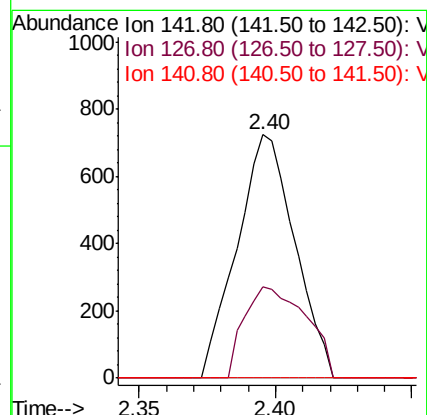
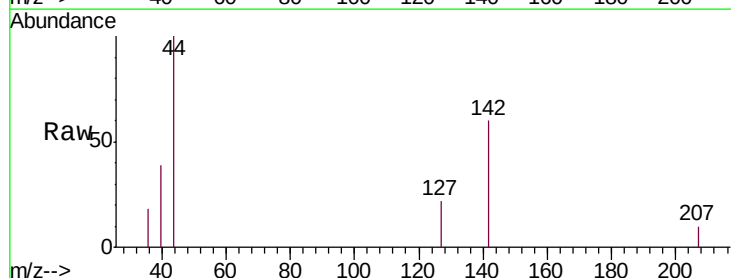
Tgt Ion: 142 Resp: 1061

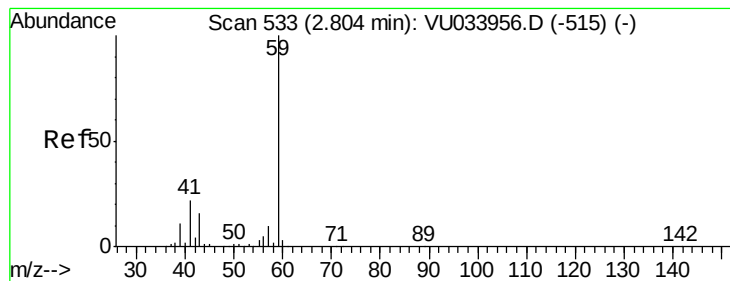
Ion Ratio Lower Upper

142 100

127 40.3 34.3 51.5

141 0.0 11.8 17.6#



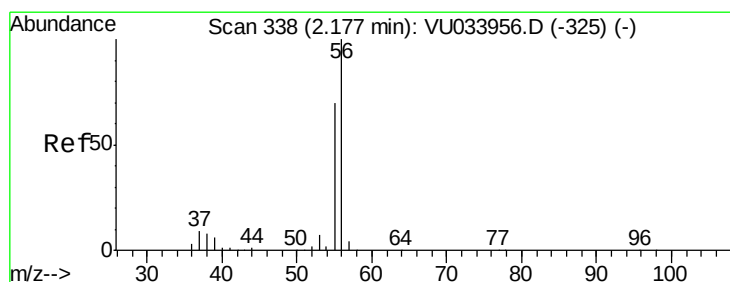
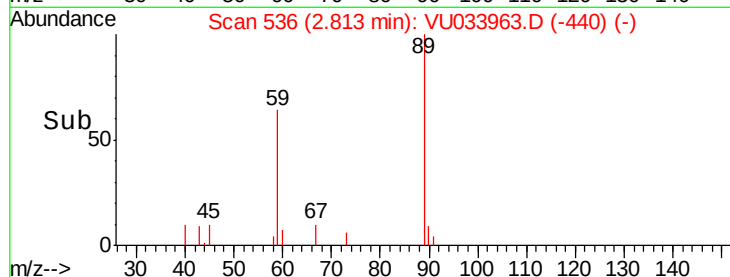
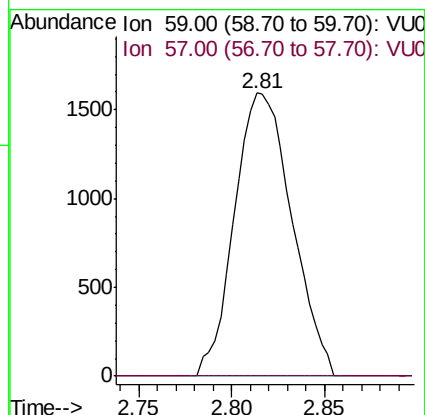
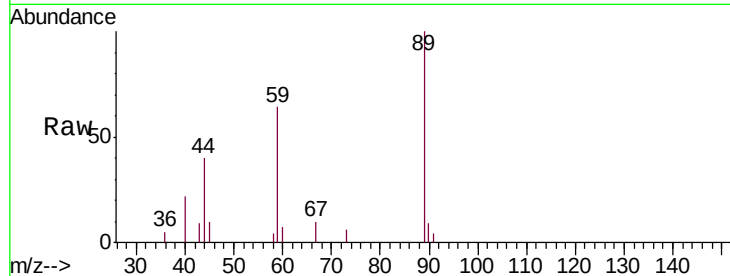


#11

Tert butyl alcohol
 Concen: 2.668 ug/l
 RT: 2.81 min Scan# 536
 Delta R.T. 0.01 min
 Lab File: VU033963.D
 Acq: 26 Aug 2019 21:47

Instrument :
 MSVOA_U
 ClientSampleId :
 TB-03-082319

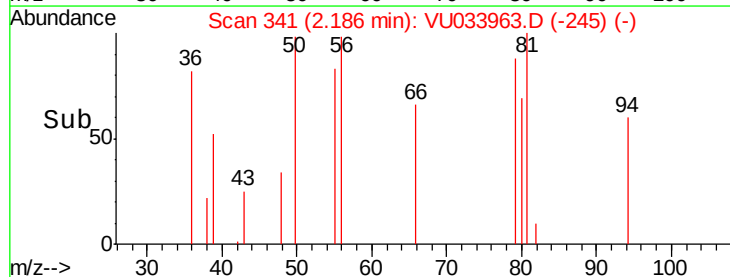
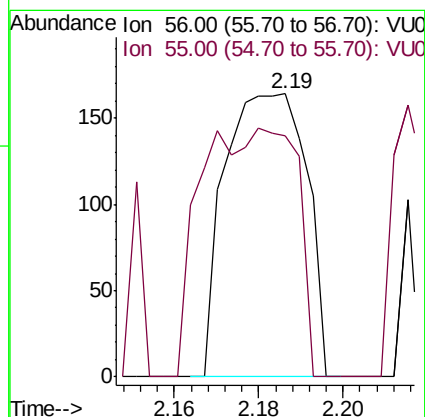
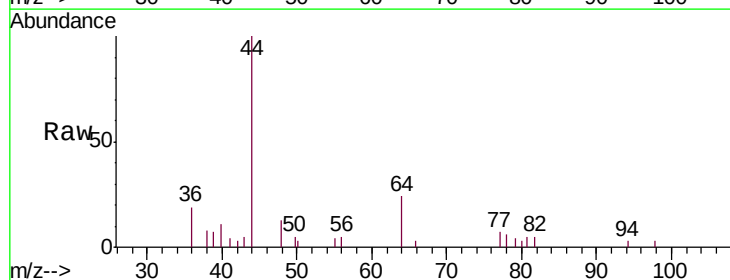
Tgt Ion: 59 Resp: 3430
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.2#

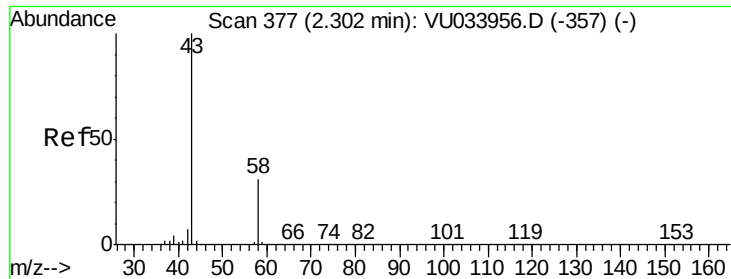


#13

Acrolein
 Concen: 0.286 ug/l
 RT: 2.19 min Scan# 341
 Delta R.T. 0.01 min
 Lab File: VU033963.D
 Acq: 26 Aug 2019 21:47

Tgt Ion: 56 Resp: 219
 Ion Ratio Lower Upper
 56 100
 55 103.7 56.3 84.5#





#16

Acetone

Concen: 0.294 ug/l

RT: 2.31 min Scan# 379

Delta R.T. 0.01 min

Lab File: VU033963.D

Acq: 26 Aug 2019 21:47

Instrument :

MSVOA_U

ClientSampleId :

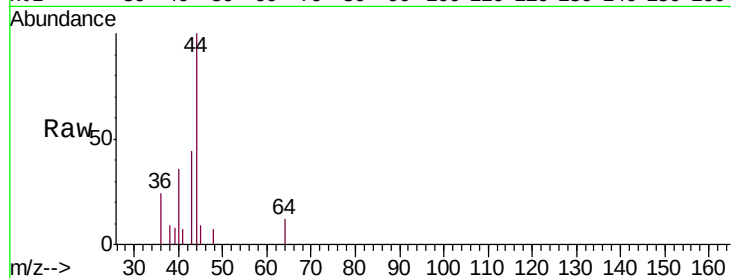
TB-03-082319

Tgt Ion: 43 Resp: 1077

Ion Ratio Lower Upper

43 100

58 0.0 24.5 36.7#

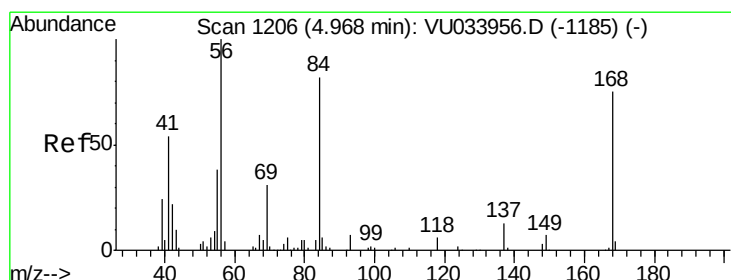
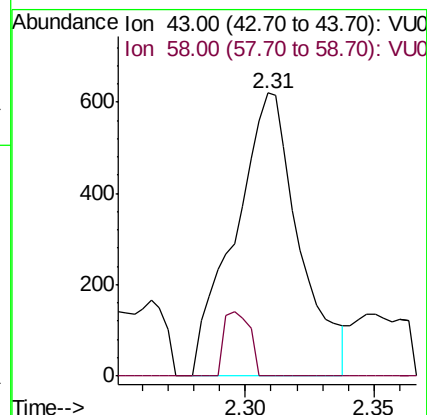
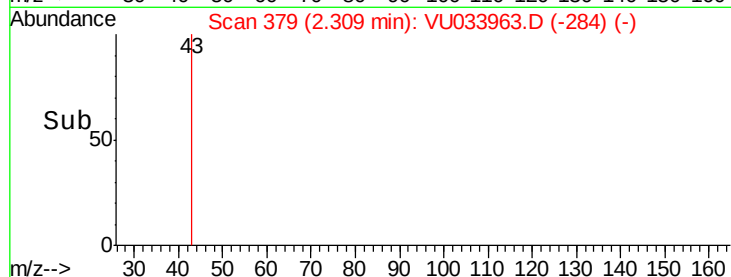


Abundance Ion 43.00 (42.70 to 43.70): VU033956.D (-357) (-)

Ion 58.00 (57.70 to 58.70): VU033956.D (-357) (-)

2.31

2.35



#31

Cyclohexane

Concen: 1.104 ug/l

RT: 4.95 min Scan# 1202

Delta R.T. -0.01 min

Lab File: VU033963.D

Acq: 26 Aug 2019 21:47

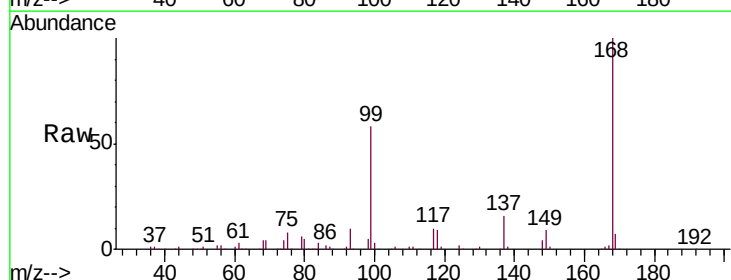
Tgt Ion: 56 Resp: 9866

Ion Ratio Lower Upper

56 100

69 166.3 24.6 37.0#

84 126.1 65.4 98.0#

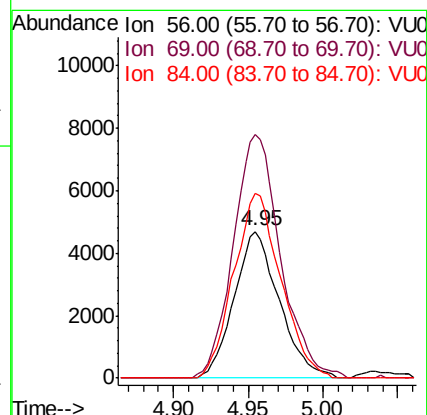
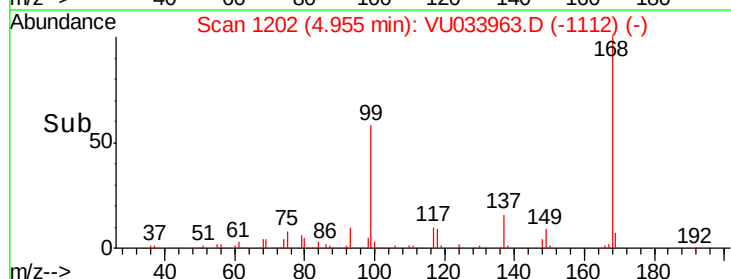


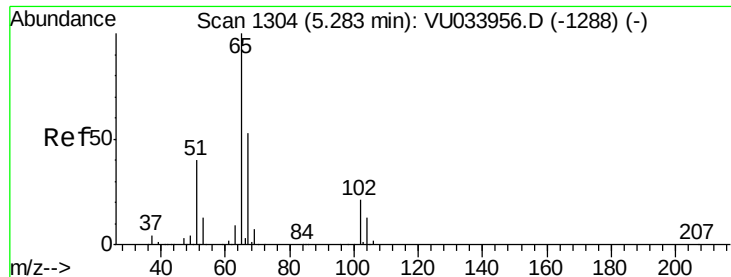
Abundance Ion 56.00 (55.70 to 56.70): VU033956.D (-1185) (-)

Ion 69.00 (68.70 to 69.70): VU033956.D (-1185) (-)

Ion 84.00 (83.70 to 84.70): VU033956.D (-1185) (-)

4.95

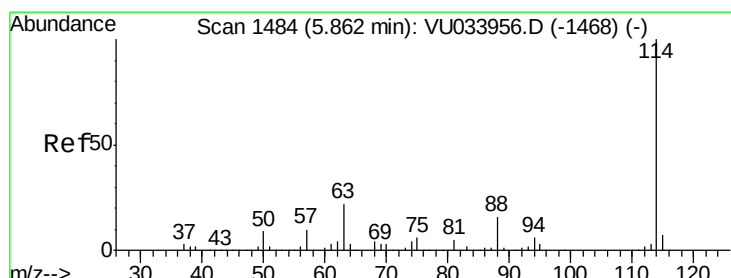
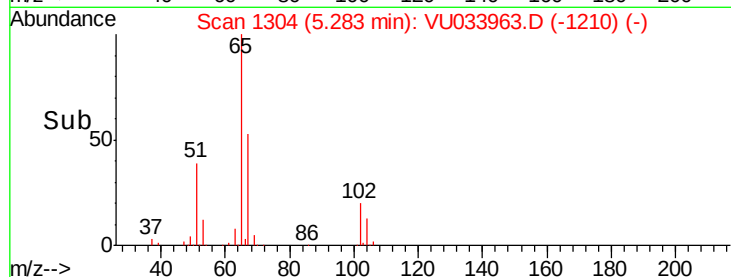
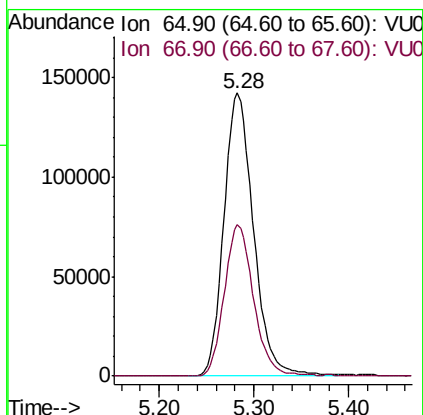
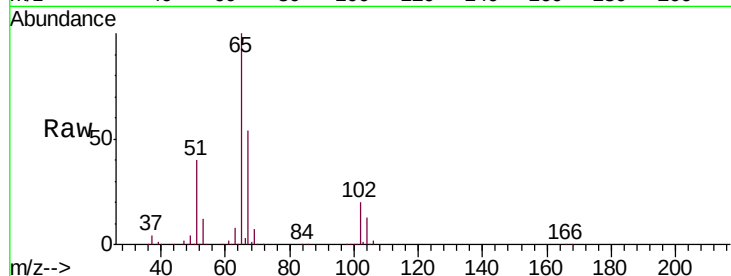




#33
 1,2-Dichloroethane-d4
 Concen: 50.356 ug/l
 RT: 5.28 min Scan# 1304
 Delta R.T. 0.00 min
 Lab File: VU033963.D
 Acq: 26 Aug 2019 21:47

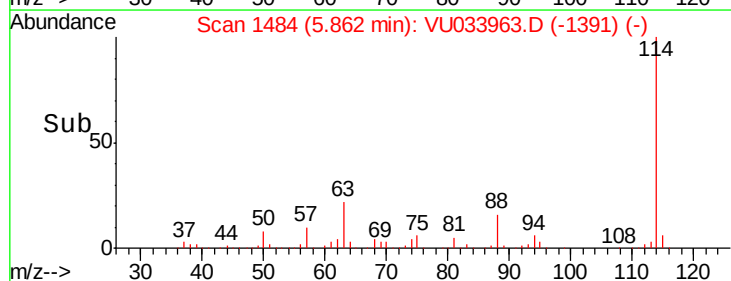
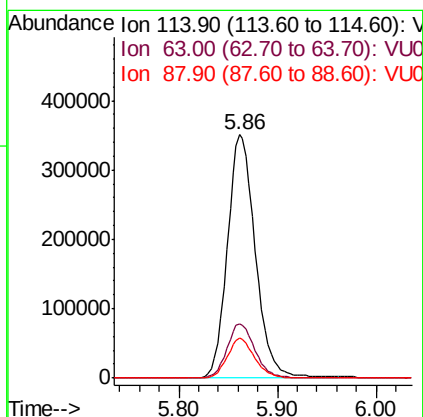
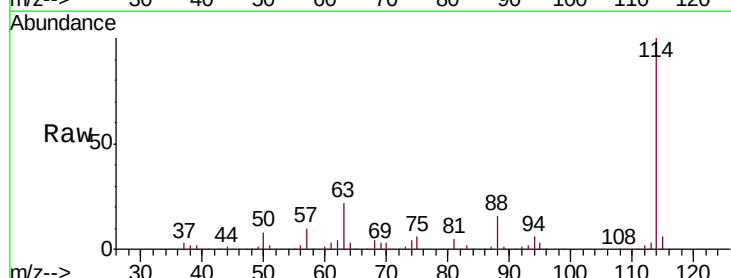
Instrument :
 MSVOA_U
 ClientSampleId :
 TB-03-082319

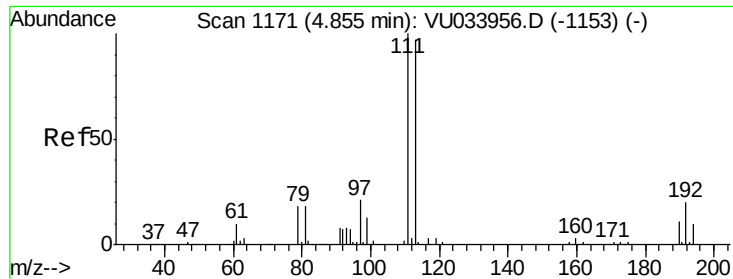
Tgt Ion: 65 Resp: 309721
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.86 min Scan# 1484
 Delta R.T. -0.00 min
 Lab File: VU033963.D
 Acq: 26 Aug 2019 21:47

Tgt Ion: 114 Resp: 694795
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 44.2
 88 16.2 0.0 32.0

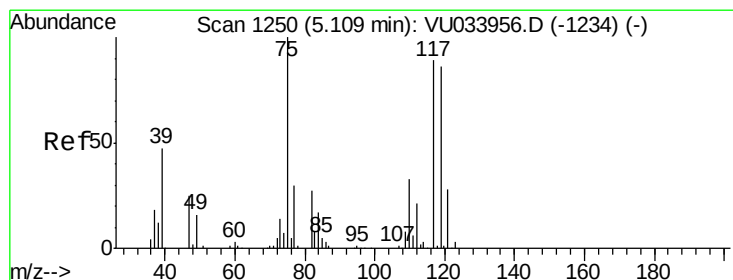
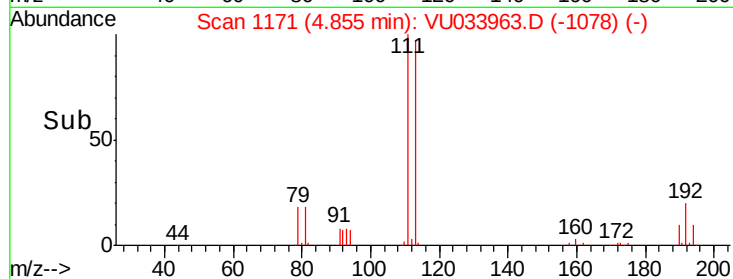
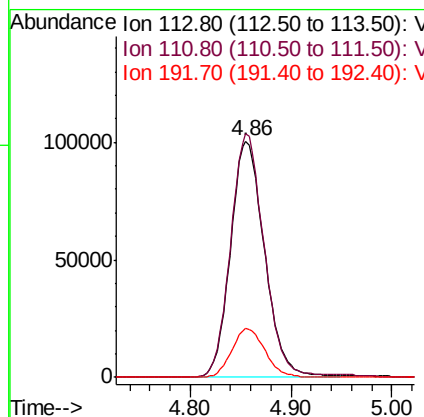
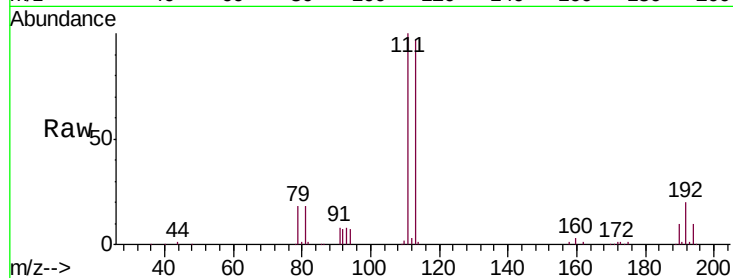




#35
 Dibromofluoromethane
 Concen: 48.798 ug/l
 RT: 4.86 min Scan# 1171
 Delta R.T. -0.00 min
 Lab File: VU033963.D
 Acq: 26 Aug 2019 21:47

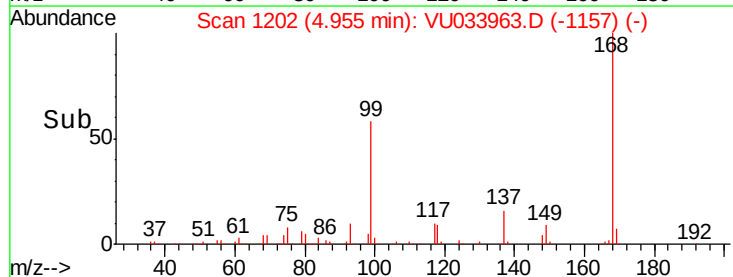
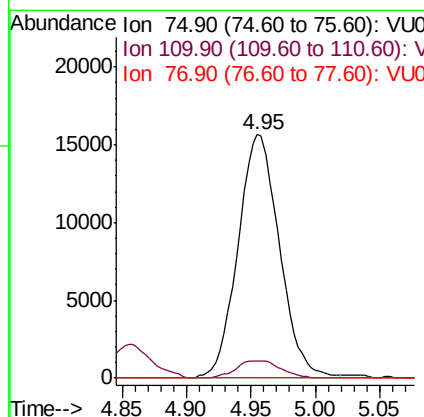
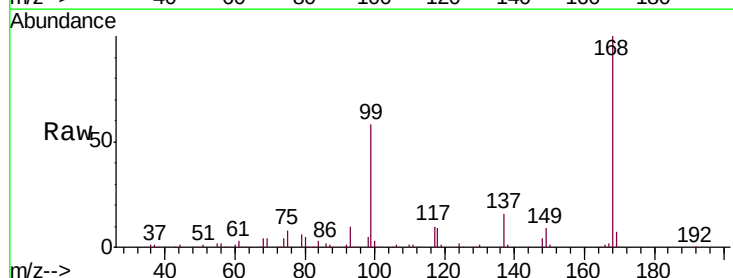
Instrument :
 MSVOA_U
 ClientSampleId :
 TB-03-082319

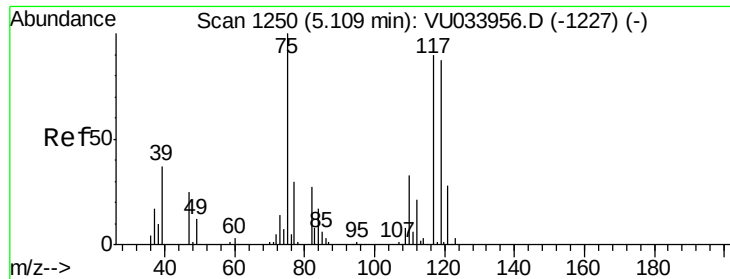
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.0	82.0	123.0
192	20.3	16.2	24.4



#36
 1,1-Dichloropropene
 Concen: 4.891 ug/l
 RT: 4.95 min Scan# 1202
 Delta R.T. -0.15 min
 Lab File: VU033963.D
 Acq: 26 Aug 2019 21:47

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.8	16.8	50.4#
77	0.0	24.7	37.1#





#38

Carbon Tetrachloride

Concen: 5.961 ug/l

RT: 4.96 min Scan# 1203

Delta R.T. -0.15 min

Lab File: VU033963.D

Acq: 26 Aug 2019 21:47

Instrument :

MSVOA_U

ClientSampleId :

TB-03-082319

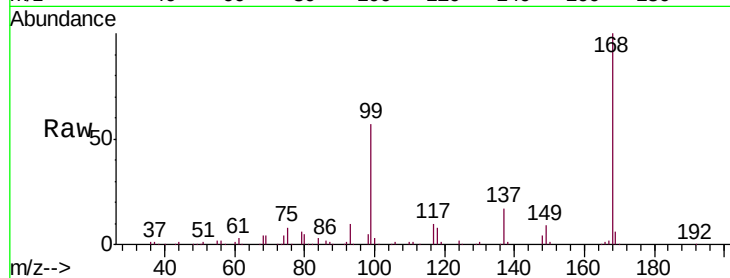
Tgt Ion:117 Resp: 42583

Ion Ratio Lower Upper

117 100

119 6.3 76.9 115.3#

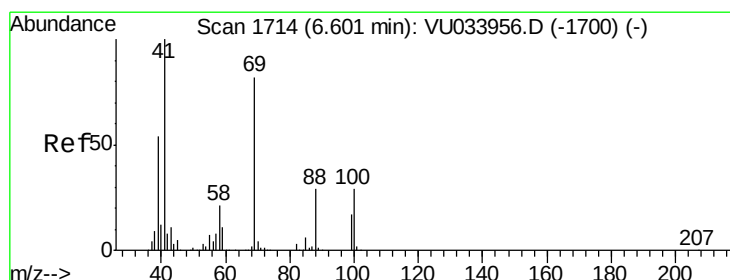
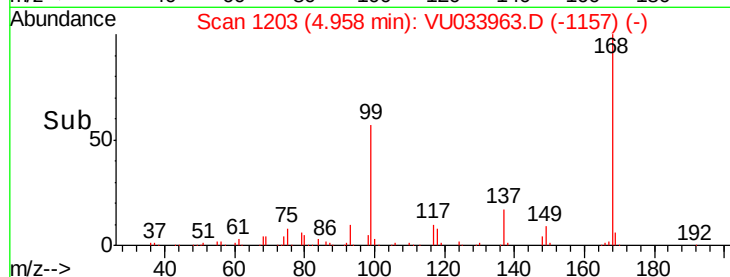
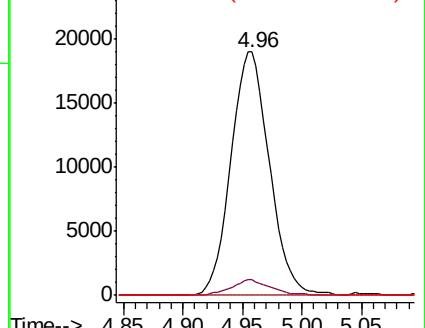
121 0.0 24.9 37.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#48

Methyl methacrylate

Concen: 2.315 ug/l

RT: 6.68 min Scan# 1740

Delta R.T. 0.08 min

Lab File: VU033963.D

Acq: 26 Aug 2019 21:47

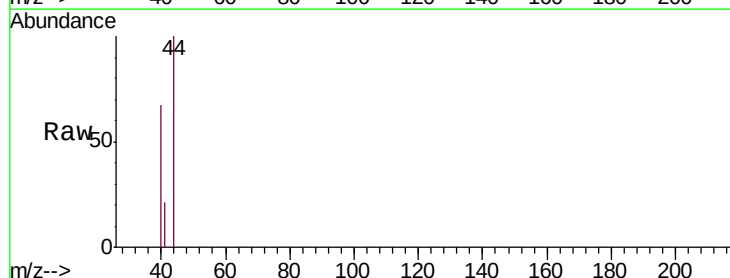
Tgt Ion: 41 Resp: 20

Ion Ratio Lower Upper

41 100

69 0.0 66.9 100.3#

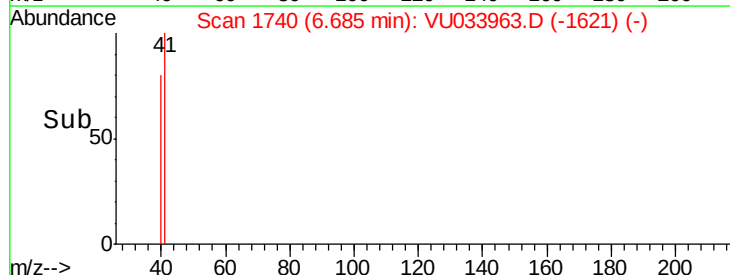
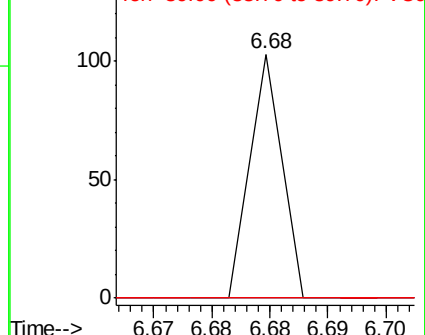
39 0.0 43.3 64.9#

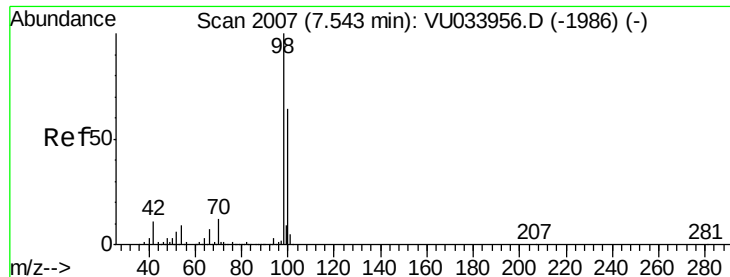


Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

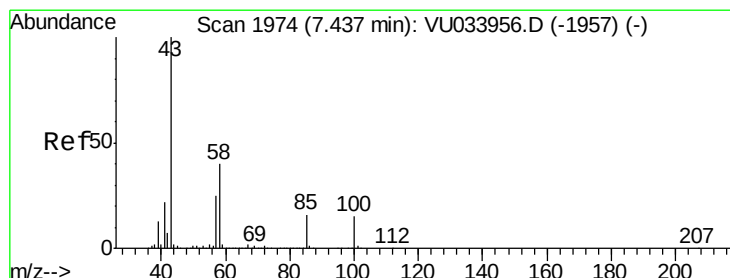
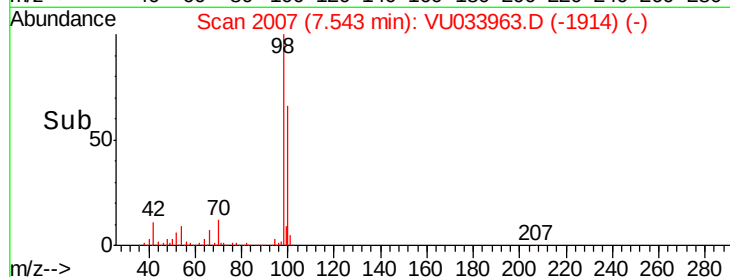
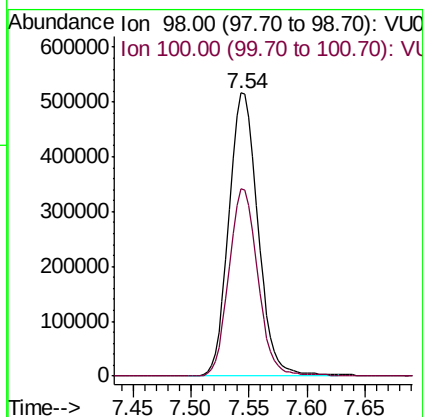
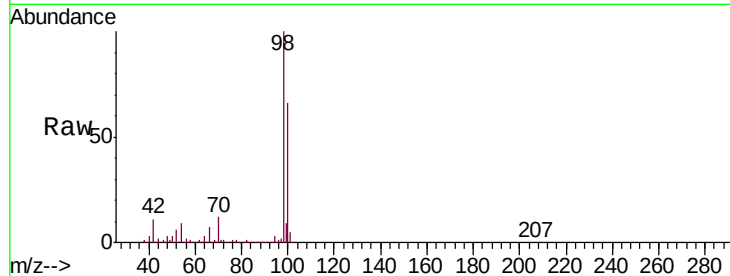




#50
Toluene-d8
Concen: 50.249 ug/l
RT: 7.54 min Scan# 2007
Delta R.T. 0.00 min
Lab File: VU033963.D
Acq: 26 Aug 2019 21:47

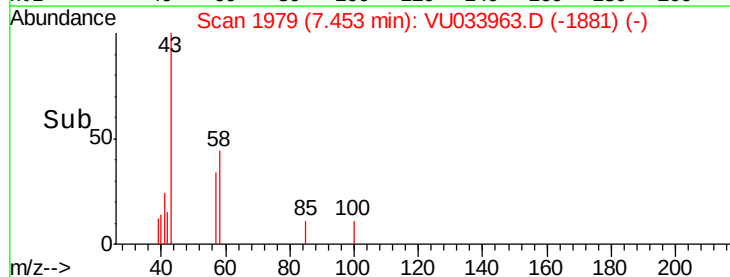
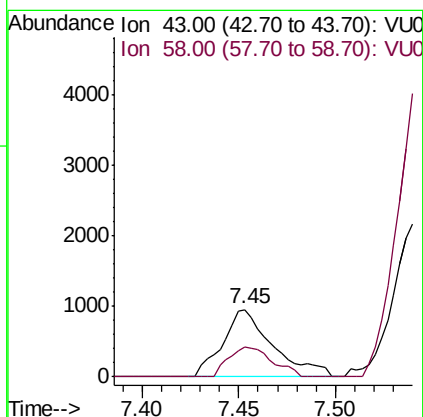
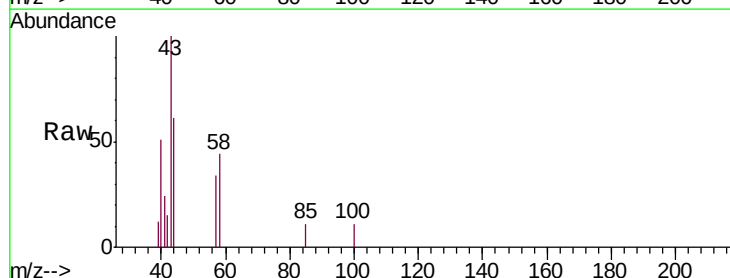
Instrument :
MSVOA_U
ClientSampleId :
TB-03-082319

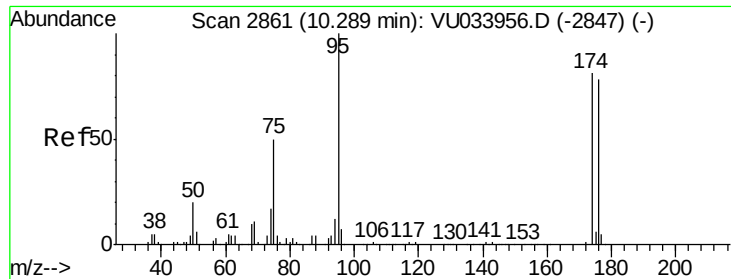
Tgt Ion: 98 Resp: 898306
Ion Ratio Lower Upper
98 100
100 65.9 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 0.202 ug/l
RT: 7.45 min Scan# 1979
Delta R.T. 0.02 min
Lab File: VU033963.D
Acq: 26 Aug 2019 21:47

Tgt Ion: 43 Resp: 1704
Ion Ratio Lower Upper
43 100
58 39.0 31.6 47.4





#62

4-Bromofluorobenzene

Concen: 41.537 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.00 min

Lab File: VU033963.D

Acq: 26 Aug 2019 21:47

Instrument :

MSVOA_U

ClientSampleId :

TB-03-082319

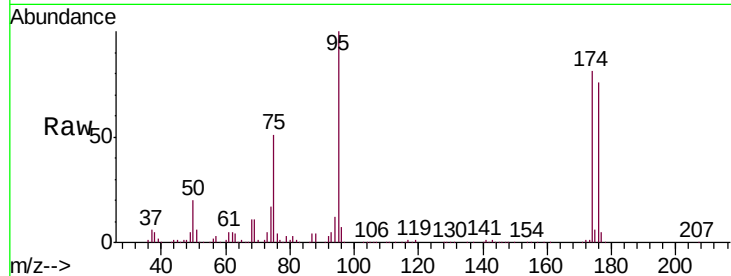
Tgt Ion: 95 Resp: 286250

Ion Ratio Lower Upper

95 100

174 81.6 0.0 160.4

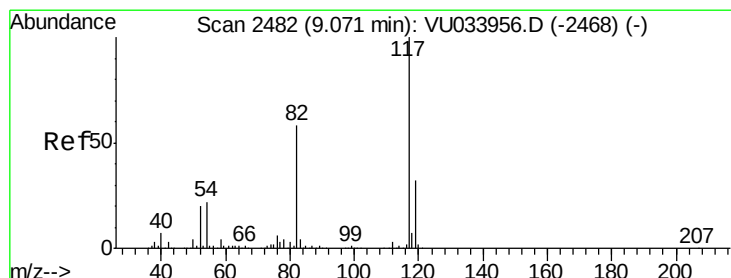
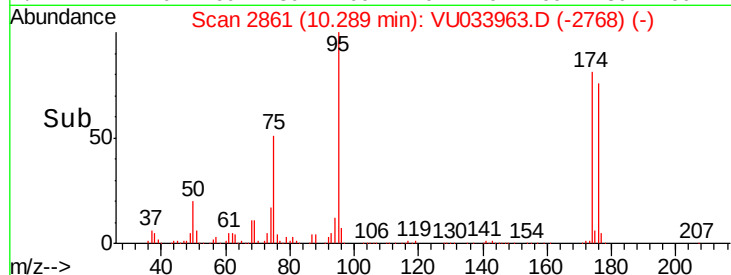
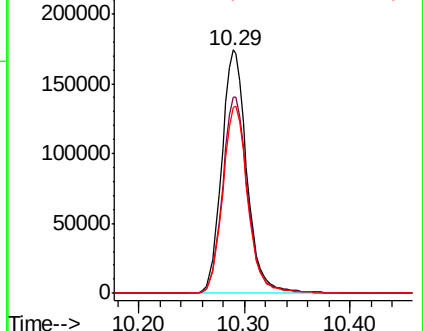
176 76.8 0.0 154.2



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): VU0

Ion 175.80 (175.50 to 176.50): VU0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2482

Delta R.T. -0.00 min

Lab File: VU033963.D

Acq: 26 Aug 2019 21:47

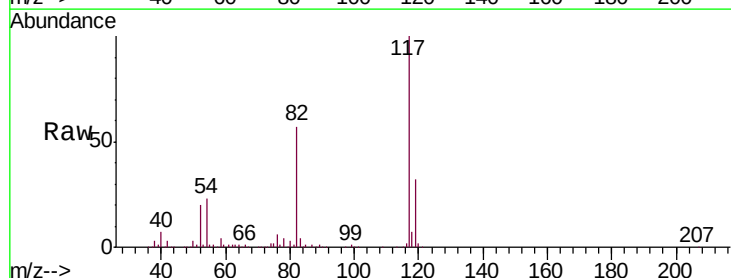
Tgt Ion: 117 Resp: 648314

Ion Ratio Lower Upper

117 100

82 56.9 46.4 69.6

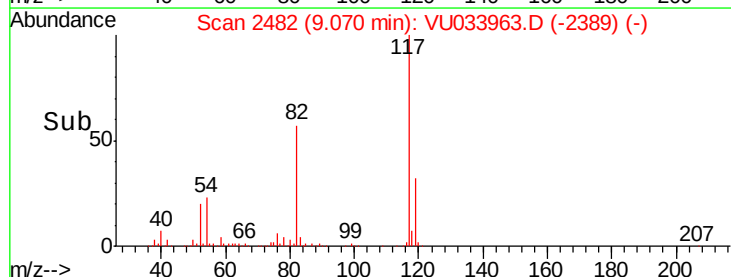
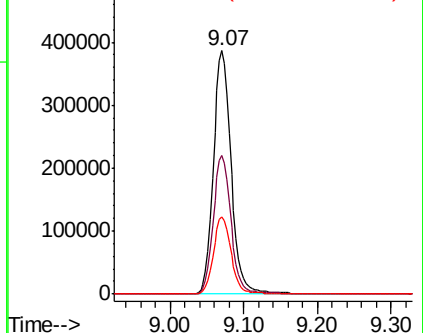
119 31.7 25.3 37.9

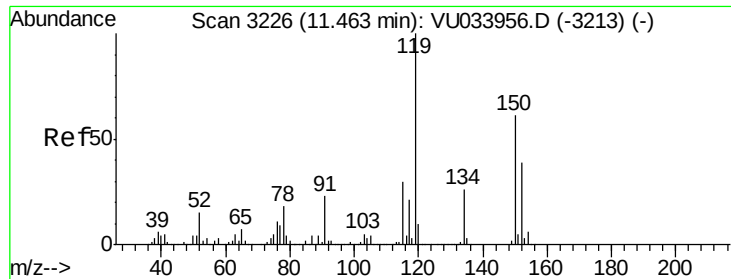


Abundance Ion 116.90 (116.60 to 117.60): VU0

Ion 82.00 (81.70 to 82.70): VU0

Ion 118.90 (118.60 to 119.60): VU0

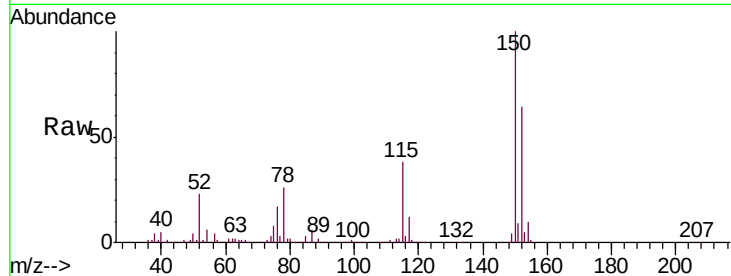




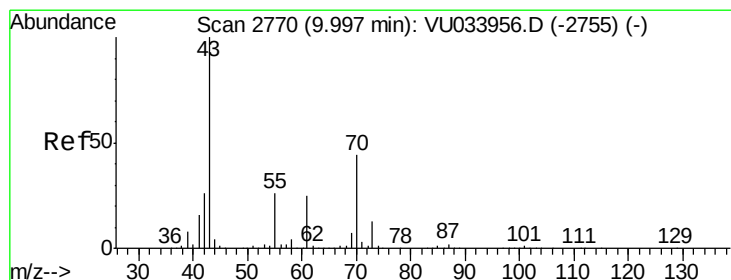
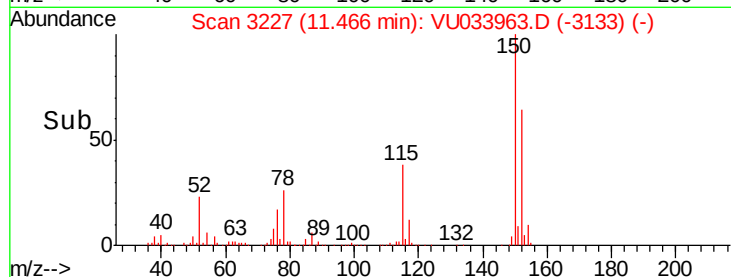
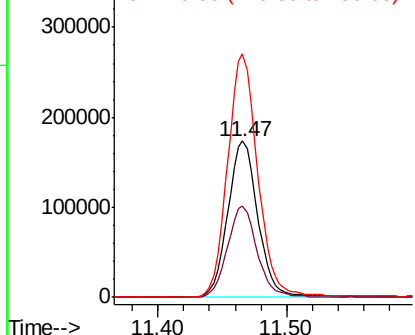
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.47 min Scan# 3227
 Delta R.T. 0.00 min
 Lab File: VU033963.D
 Acq: 26 Aug 2019 21:47

Instrument :
 MSVOA_U
 ClientSampleId :
 TB-03-082319

Tgt Ion:152 Resp: 280433
 Ion Ratio Lower Upper
 152 100
 115 58.0 40.3 120.9
 150 157.5 0.0 346.0

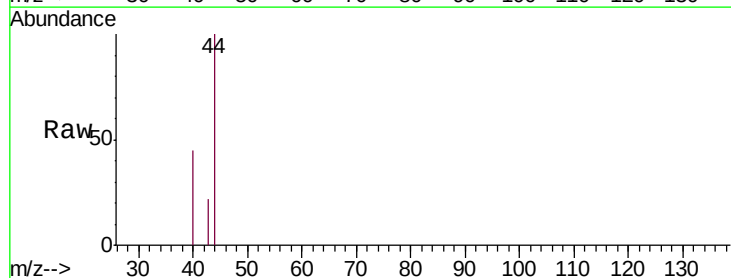


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

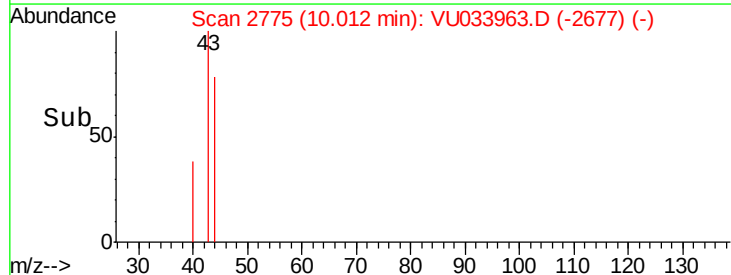
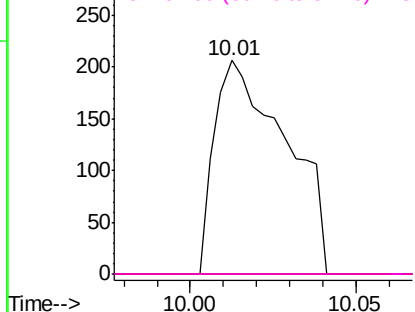


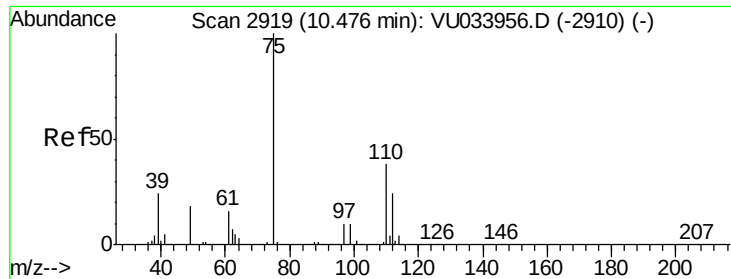
#74
 N-amil acetate
 Concen: 3.622 ug/l
 RT: 10.01 min Scan# 2775
 Delta R.T. 0.02 min
 Lab File: VU033963.D
 Acq: 26 Aug 2019 21:47

Tgt Ion: 43 Resp: 311
 Ion Ratio Lower Upper
 43 100
 70 0.0 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





#76

1,2,3-Trichloropropane

Concen: 22.289 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU033963.D

Acq: 26 Aug 2019 21:47

Instrument :

MSVOA_U

ClientSampleId :

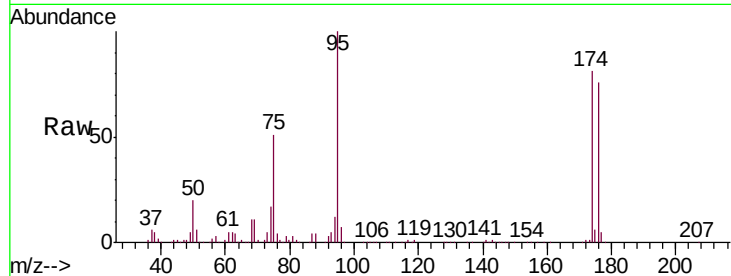
TB-03-082319

Tgt Ion: 75 Resp: 144606

Ion Ratio Lower Upper

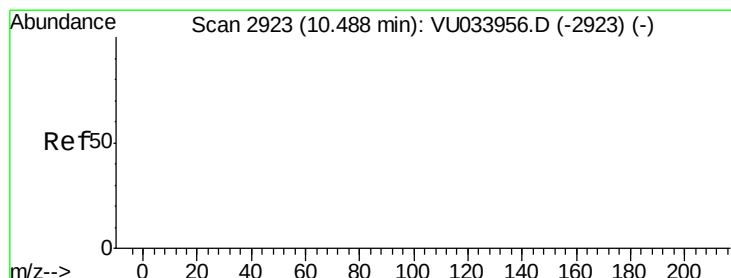
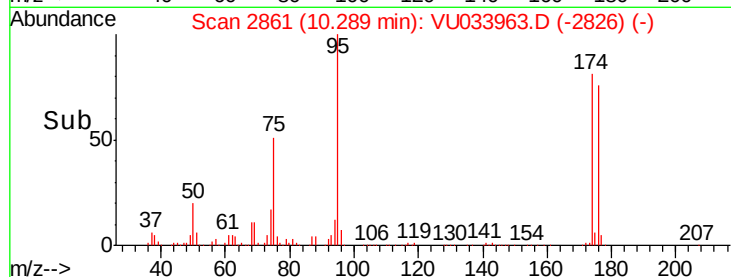
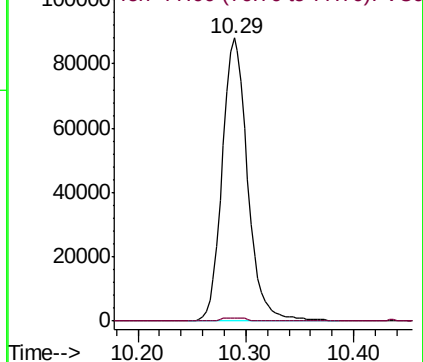
75 100

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



#81

trans-1,4-Dichloro-2-butene

Concen: 59.432 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.20 min

Lab File: VU033963.D

Acq: 26 Aug 2019 21:47

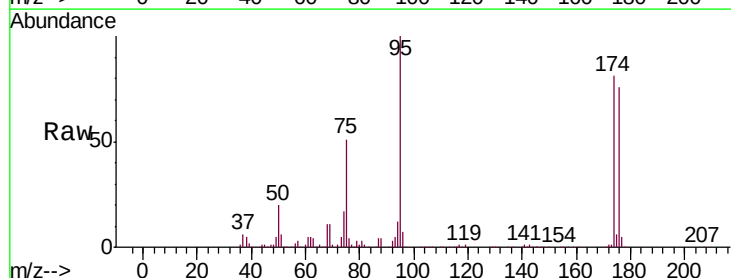
Tgt Ion: 75 Resp: 144606

Ion Ratio Lower Upper

75 100

53 0.2 0.0 0.0#

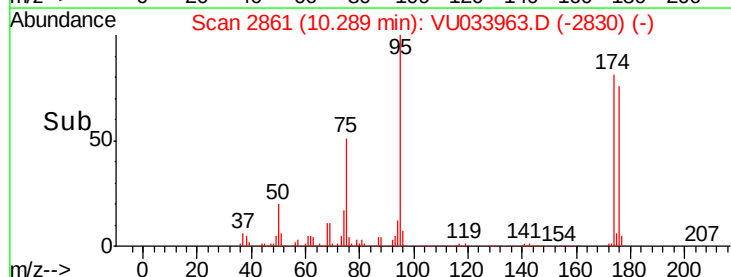
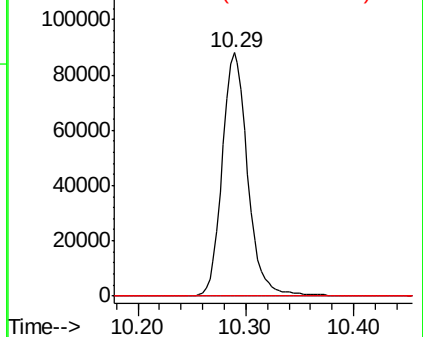
89 0.0 0.0 0.0

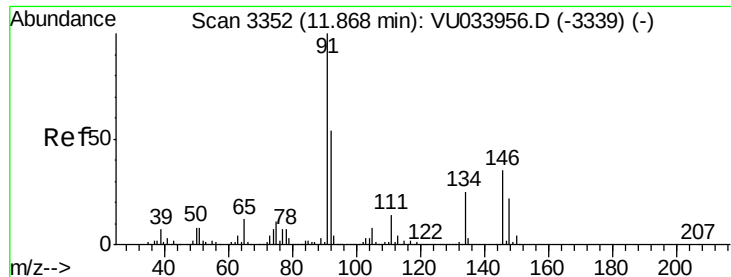


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0





#89

n-Butylbenzene

Concen: 2.698 ug/l

RT: 11.88 min Scan# 3355

Delta R.T. 0.01 min

Lab File: VU033963.D

Acq: 26 Aug 2019 21:47

Instrument :

MSVOA_U

ClientSampleId :

TB-03-082319

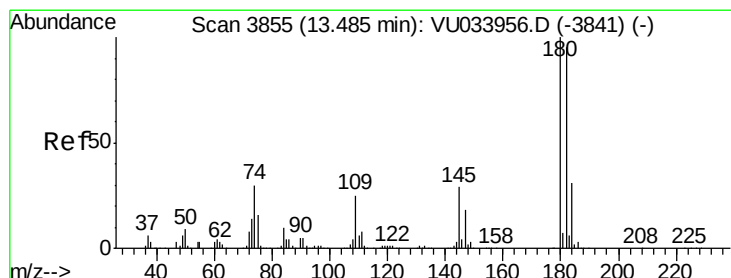
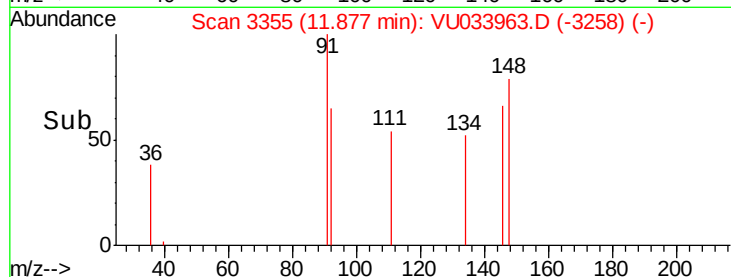
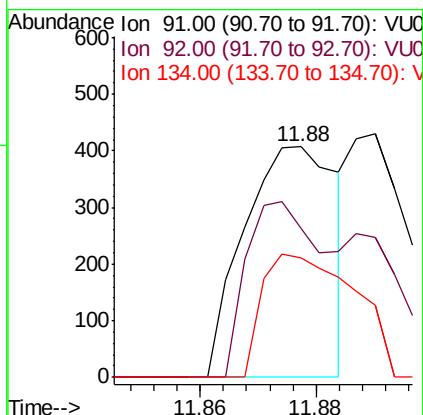
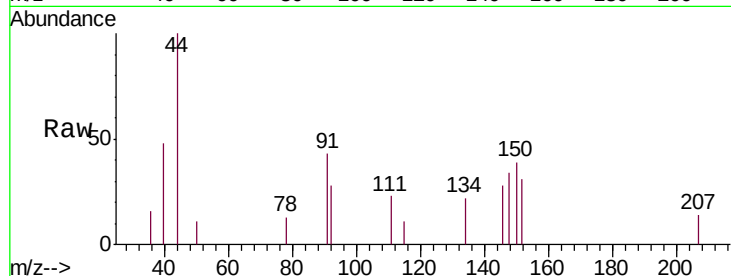
Tgt Ion: 91 Resp: 450

Ion Ratio Lower Upper

91 100

92 56.0 26.9 80.6

134 53.8 12.6 37.6#



#93

1,2,4-Trichlorobenzene

Concen: 3.479 ug/l

RT: 13.53 min Scan# 3870

Delta R.T. 0.05 min

Lab File: VU033963.D

Acq: 26 Aug 2019 21:47

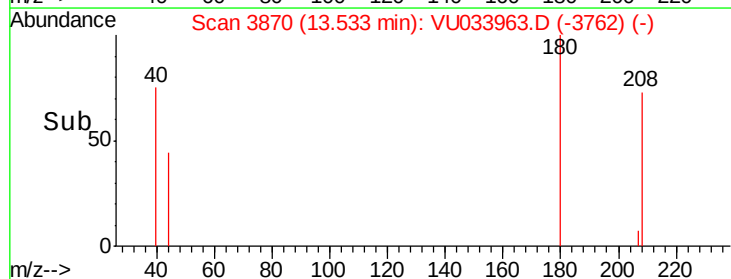
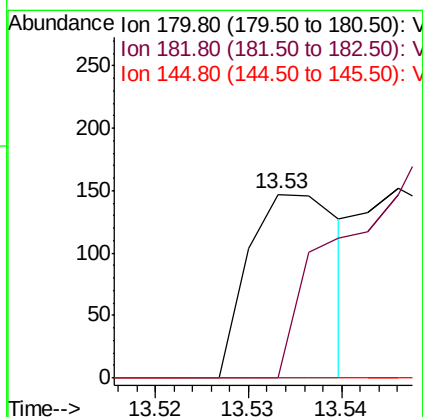
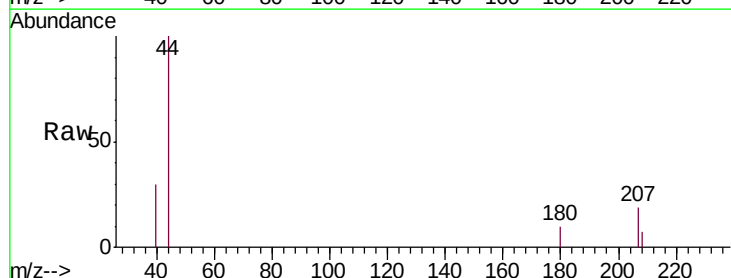
Tgt Ion: 180 Resp: 101

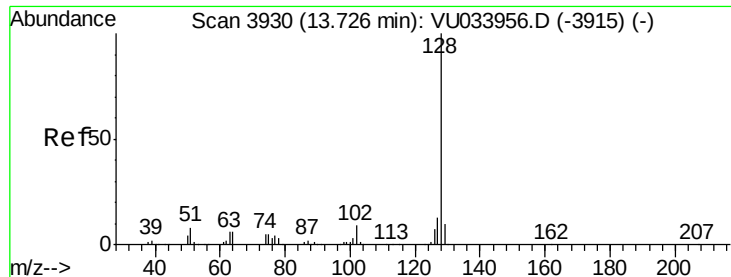
Ion Ratio Lower Upper

180 100

182 311.9 47.4 142.3#

145 0.0 14.2 42.8#

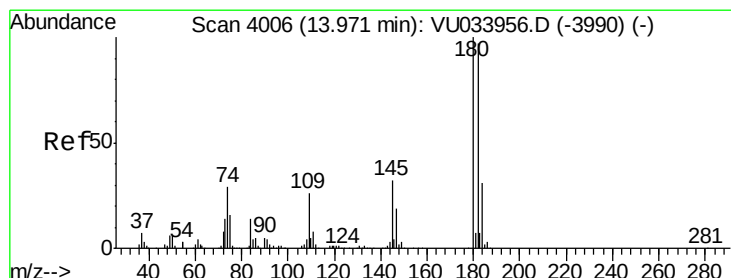
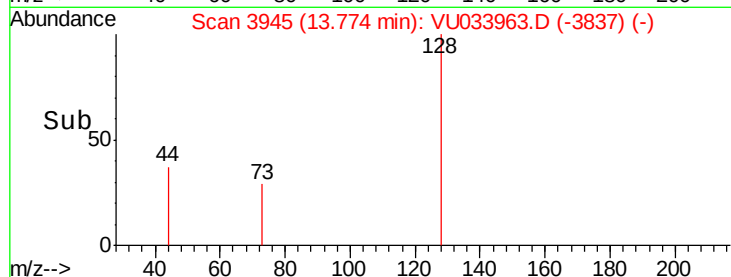
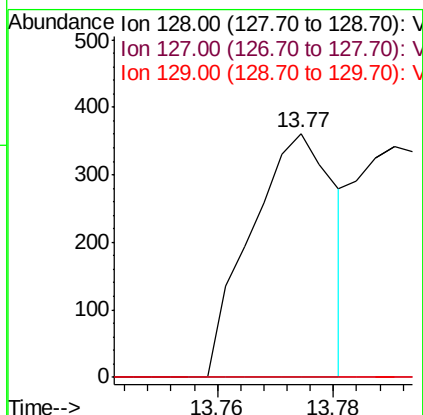
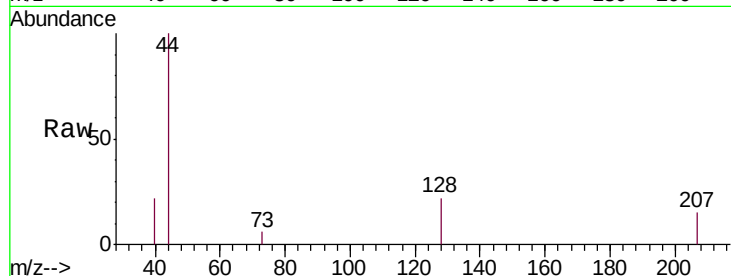




#95
Naphthalene
Concen: 4.526 ug/l
RT: 13.77 min Scan# 3945
Delta R.T. 0.05 min
Lab File: VU033963.D
Acq: 26 Aug 2019 21:47

Instrument :
MSVOA_U
ClientSampleId :
TB-03-082319

Tgt Ion:128 Resp: 361
Ion Ratio Lower Upper
128 100
127 0.0 10.1 15.1#
129 0.0 8.3 12.5#



#96
1,2,3-Trichlorobenzene
Concen: 3.083 ug/l
RT: 14.01 min Scan# 4019
Delta R.T. 0.04 min
Lab File: VU033963.D
Acq: 26 Aug 2019 21:47

Tgt Ion:180 Resp: 355
Ion Ratio Lower Upper
180 100
182 63.9 48.6 145.8
145 0.0 15.7 47.0#

