

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090719\
 Data File : VU034349.D
 Acq On : 06 Sep 2019 23:08
 Operator : JC/SP
 Sample : K4725-03
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 S13-TB-2019-1

Quant Time: Sep 07 04:12:53 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	300090	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	445562	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	437175	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	257531	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	230298	50.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.44%	
35) Dibromofluoromethane	4.86	113	205032	49.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.90%	
50) Toluene-d8	7.55	98	767574	49.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.56%	
62) 4-Bromofluorobenzene	10.29	95	274079	45.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.14%	

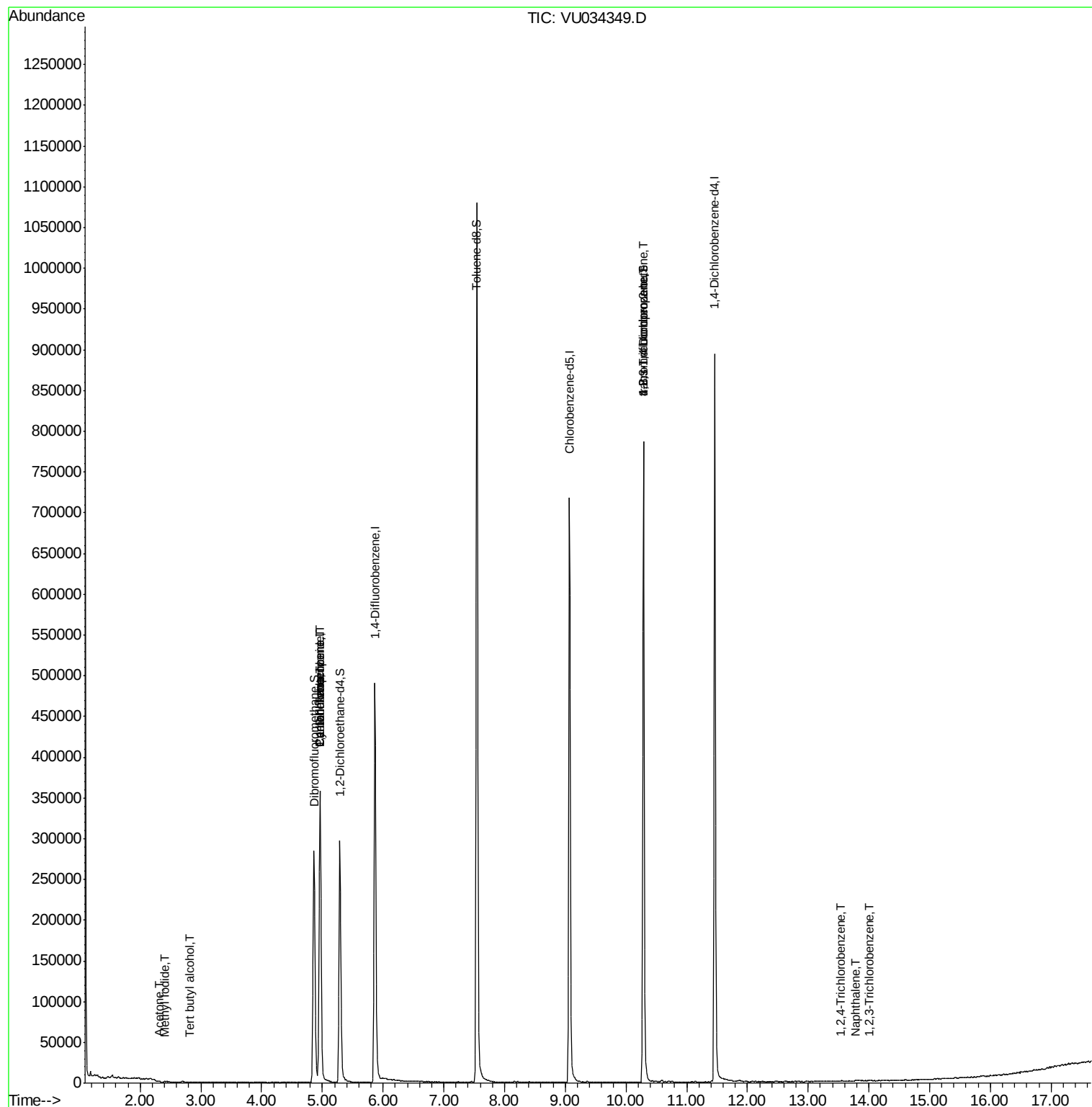
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	955	Below Cal		84
6) Chloroethane	1.76	64	78	Below Cal	#	43
10) Methyl Iodide	2.40	142	606	4.022	ug/l #	71
11) Tert butyl alcohol	2.83	59	414	0.432	ug/l #	73
16) Acetone	2.32	43	1287	0.548	ug/l #	83
20) Methylene Chloride	2.69	84	665	Below Cal	#	77
31) Cyclohexane	4.96	56	4979	0.936	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	19958	4.130	ug/l #	48
38) Carbon Tetrachloride	4.96	117	26153	5.069	ug/l #	15
76) 1,2,3-Trichloropropane	10.29	75	127704	22.717	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	127704	76.397	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.54	180	209	3.484	ug/l #	53
95) Naphthalene	13.78	128	1119	4.026	ug/l #	77
96) 1,2,3-Trichlorobenzene	14.01	180	256	2.680	ug/l #	74

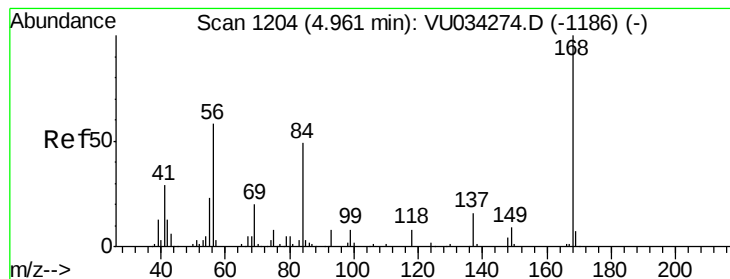
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU034349.D

Acq: 06 Sep 2019 23:08

Instrument :

MSVOA_U

ClientSampleId :

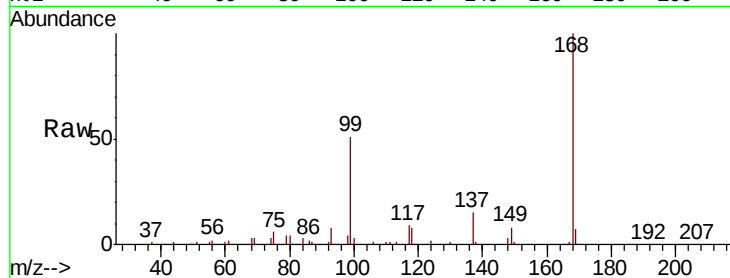
S13-TB-2019-1

Tgt Ion:168 Resp: 300090

Ion Ratio Lower Upper

168 100

99 50.8 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

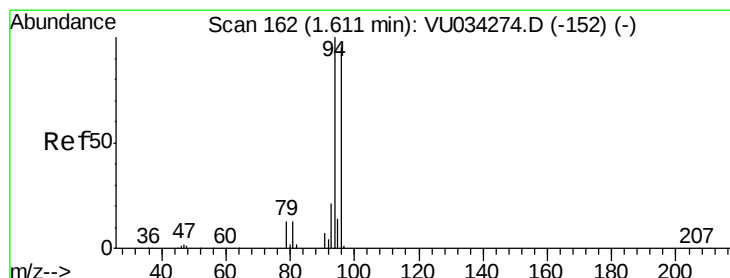
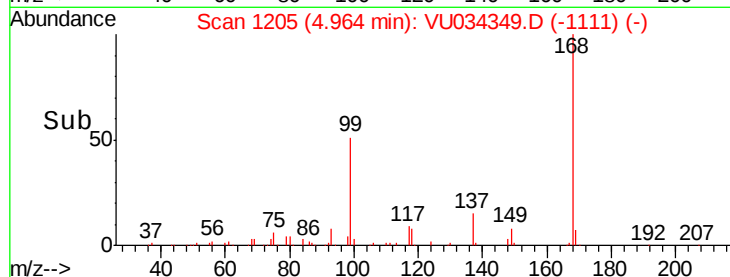
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 168

Delta R.T. 0.02 min

Lab File: VU034349.D

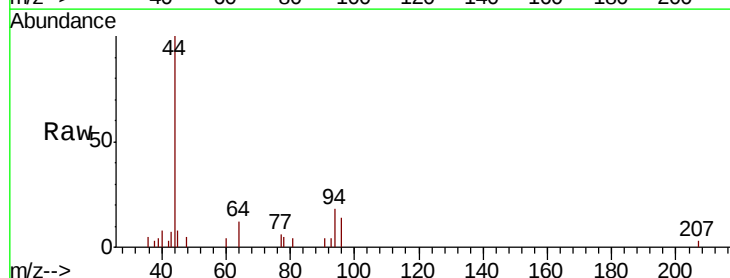
Acq: 06 Sep 2019 23:08

Tgt Ion: 94 Resp: 955

Ion Ratio Lower Upper

94 100

96 79.3 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

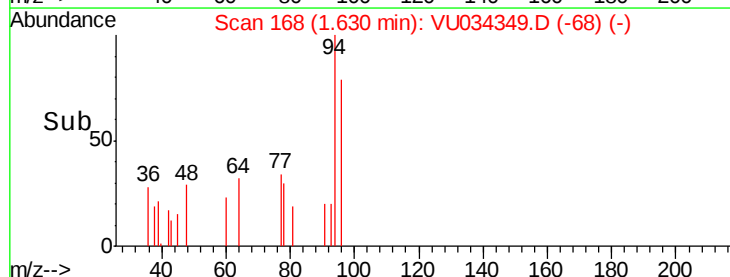
600

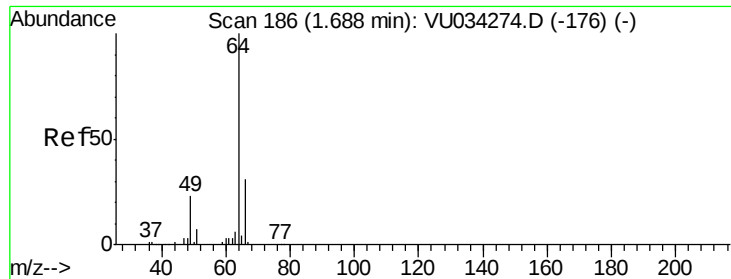
400

200

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.76 min Scan# 208

Delta R.T. 0.07 min

Lab File: VU034349.D

Acq: 06 Sep 2019 23:08

Instrument :

MSVOA_U

ClientSampleId :

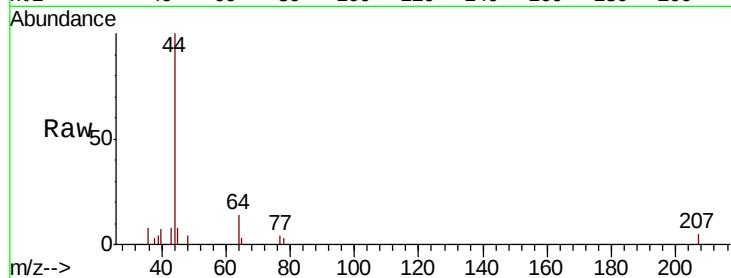
S13-TB-2019-1

Tgt Ion: 64 Resp: 78

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0

1.76

500

400

300

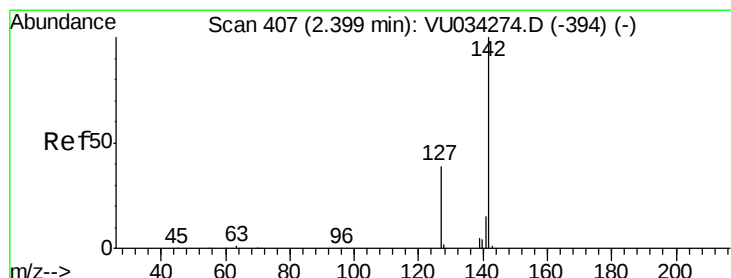
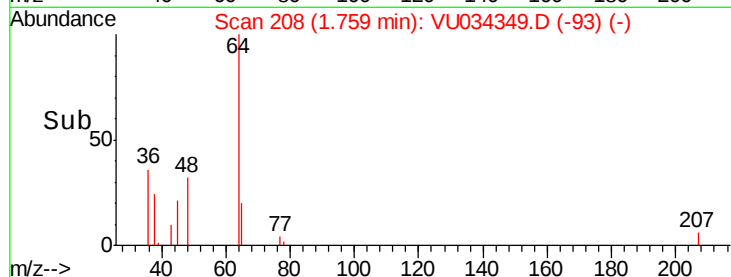
200

100

0

1.75 1.76 1.77

Time-->



#10

Methyl Iodide

Concen: 4.022 ug/l

RT: 2.40 min Scan# 408

Delta R.T. 0.00 min

Lab File: VU034349.D

Acq: 06 Sep 2019 23:08

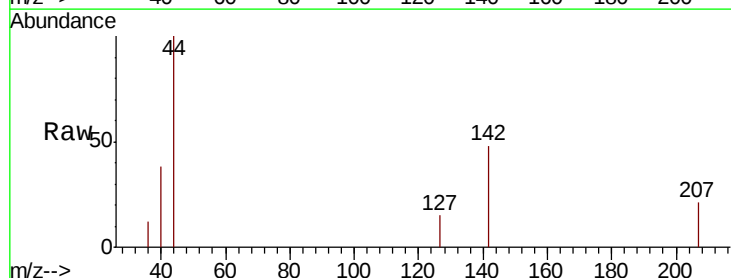
Tgt Ion: 142 Resp: 606

Ion Ratio Lower Upper

142 100

127 23.1 32.1 48.1#

141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

2.40

500

400

300

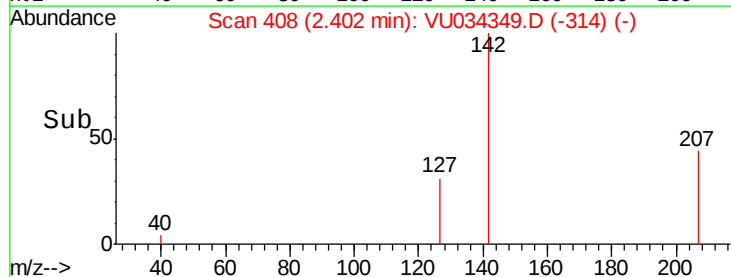
200

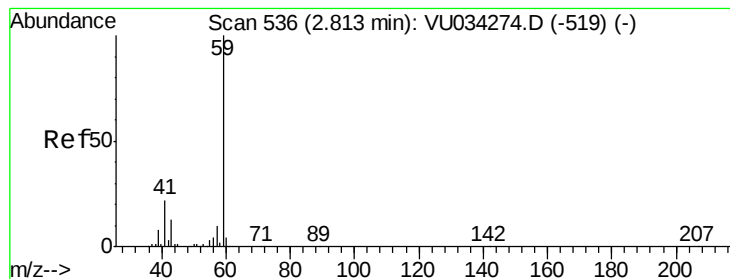
100

0

2.38 2.40 2.42

Time-->





#11

Tert butyl alcohol

Concen: 0.432 ug/l

RT: 2.83 min Scan# 540

Delta R.T. 0.01 min

Lab File: VU034349.D

Acq: 06 Sep 2019 23:08

Instrument :

MSVOA_U

ClientSampleId :

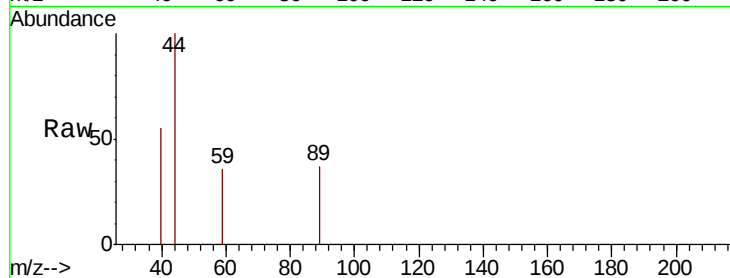
S13-TB-2019-1

Tgt Ion: 59 Resp: 414

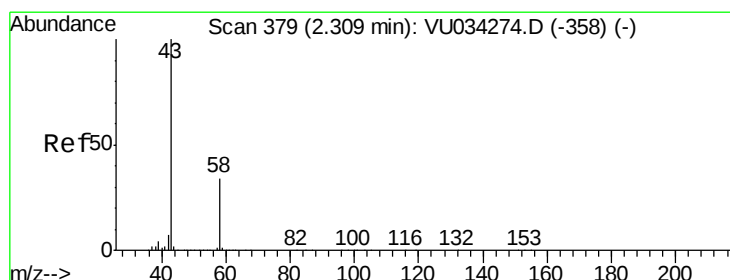
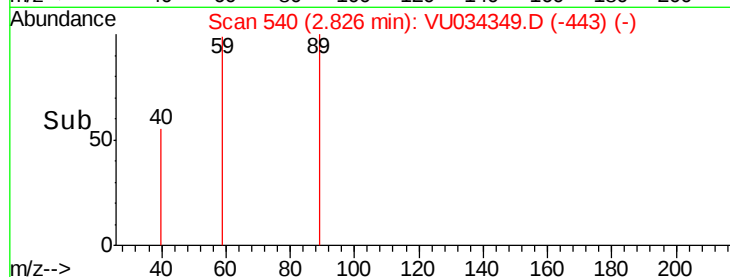
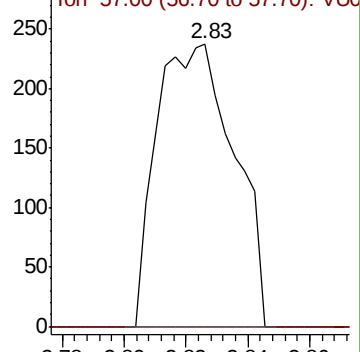
Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VU034349.D (-519) (-)



#16

Acetone

Concen: 0.548 ug/l

RT: 2.32 min Scan# 382

Delta R.T. 0.01 min

Lab File: VU034349.D

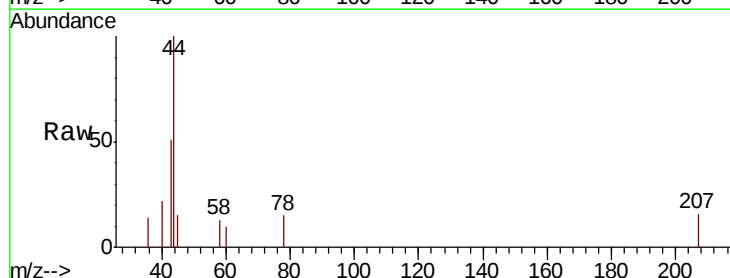
Acq: 06 Sep 2019 23:08

Tgt Ion: 43 Resp: 1287

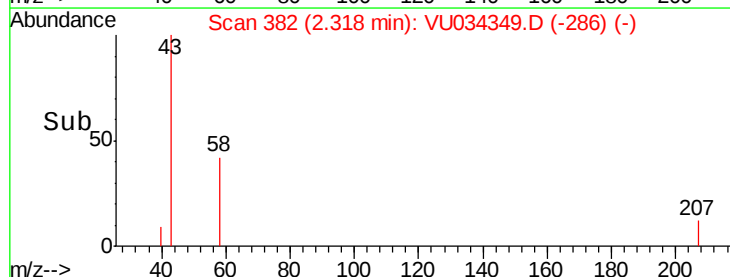
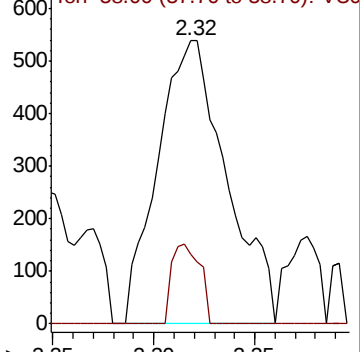
Ion Ratio Lower Upper

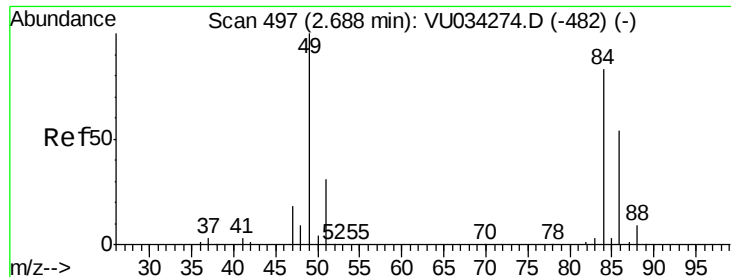
43 100

58 24.7 27.6 41.4#



Abundance Ion 43.00 (42.70 to 43.70): VU034349.D (-358) (-)

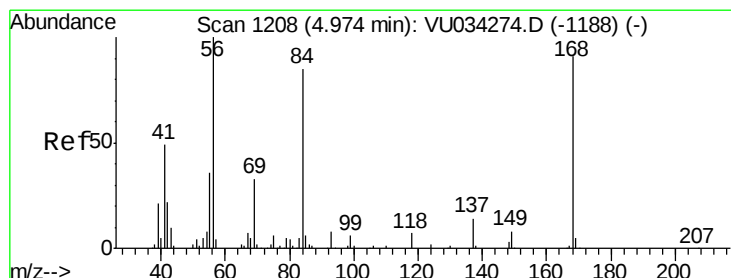
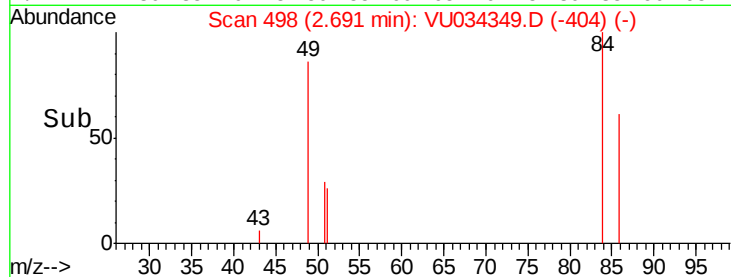
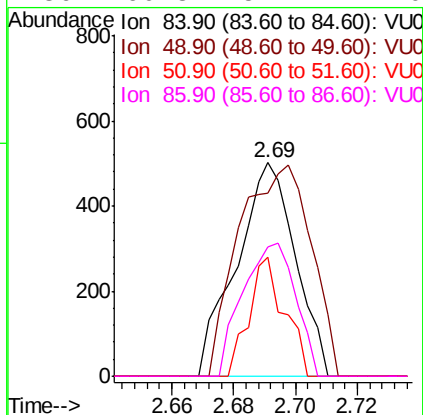
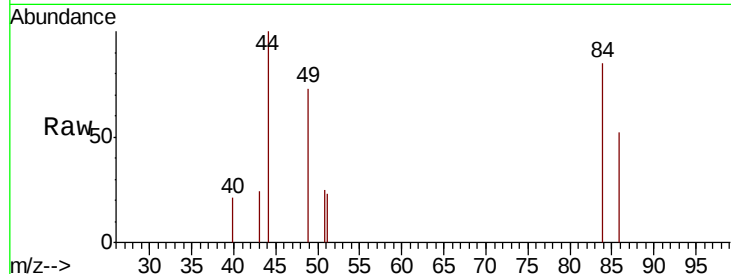




#20
Methylene Chloride
Concen: Below Cal
RT: 2.69 min Scan# 498
Delta R.T. 0.00 min
Lab File: VU034349.D
Acq: 06 Sep 2019 23:08

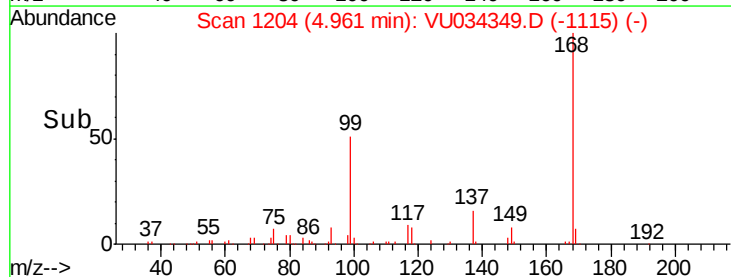
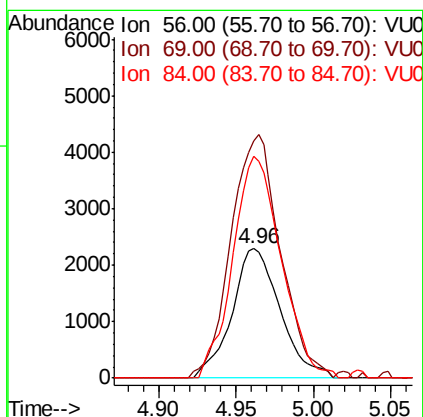
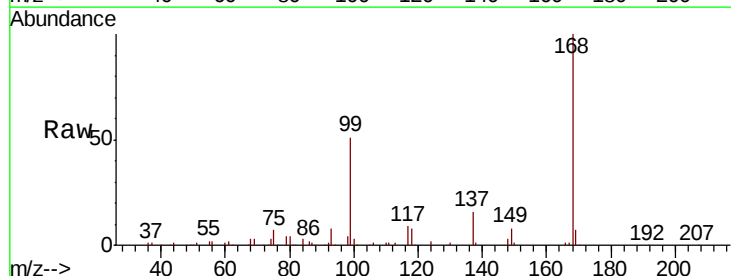
Instrument :
MSVOA_U
ClientSampleId :
S13-TB-2019-1

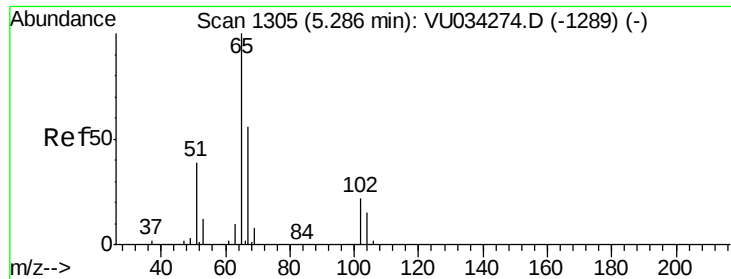
Tgt Ion: 84 Resp: 665
Ion Ratio Lower Upper
84 100
49 85.9 96.0 144.0#
51 55.8 30.0 45.0#
86 60.8 51.4 77.0



#31
Cyclohexane
Concen: 0.936 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VU034349.D
Acq: 06 Sep 2019 23:08

Tgt Ion: 56 Resp: 4979
Ion Ratio Lower Upper
56 100
69 183.5 26.7 40.1#
84 171.0 68.2 102.4#

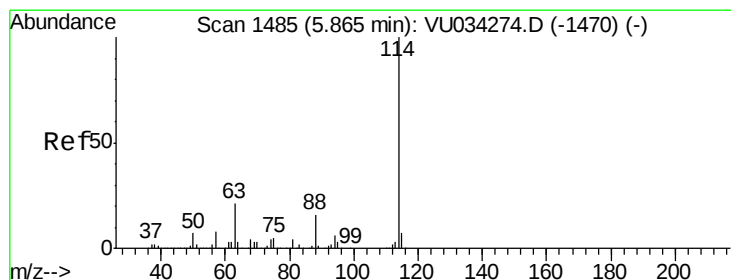
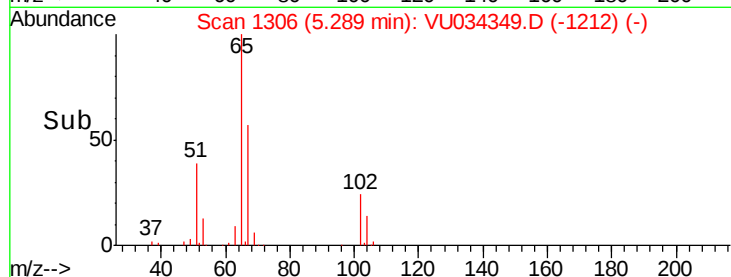
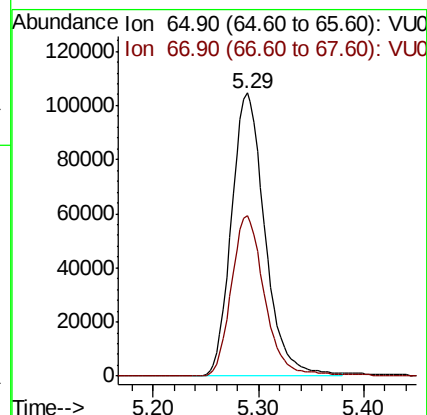
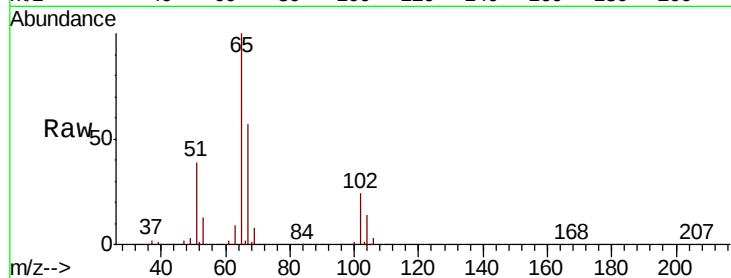




#33
 1,2-Dichloroethane-d4
 Concen: 50.721 ug/l
 RT: 5.29 min Scan# 1306
 Delta R.T. 0.00 min
 Lab File: VU034349.D
 Acq: 06 Sep 2019 23:08

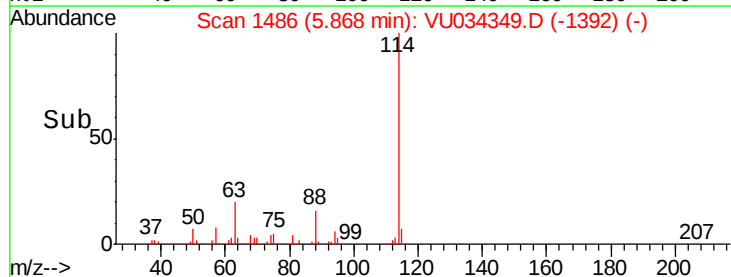
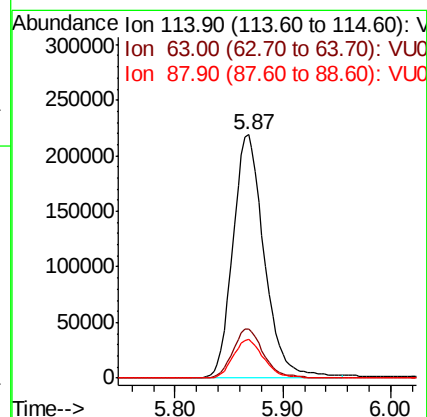
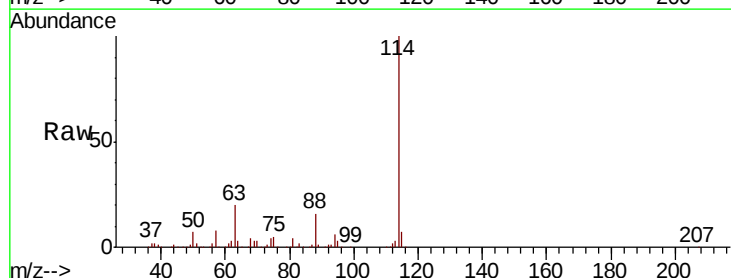
Instrument :
 MSVOA_U
 ClientSampleId :
 S13-TB-2019-1

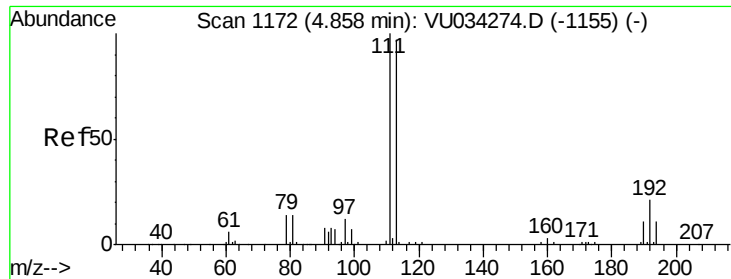
Tgt Ion: 65 Resp: 230298
 Ion Ratio Lower Upper
 65 100
 67 56.1 0.0 112.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034349.D
 Acq: 06 Sep 2019 23:08

Tgt Ion: 114 Resp: 445562
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 42.4
 88 15.7 0.0 32.4

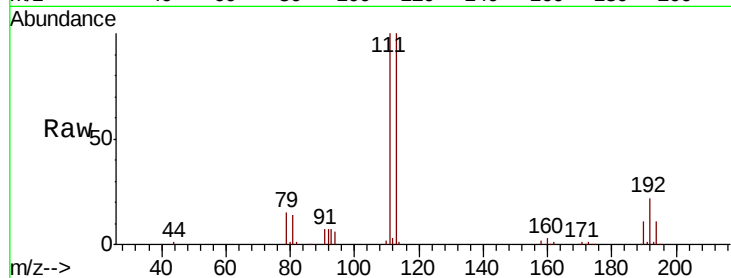




#35
 Dibromofluoromethane
 Concen: 49.453 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034349.D
 Acq: 06 Sep 2019 23:08

Instrument :
 MSVOA_U
 ClientSampleId :
 S13-TB-2019-1

Tgt Ion	Ratio	Lower	Upper
113	100		
111	100.7	81.5	122.3
192	22.7	17.8	26.8

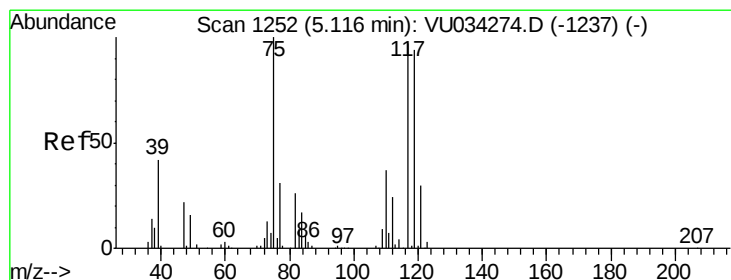
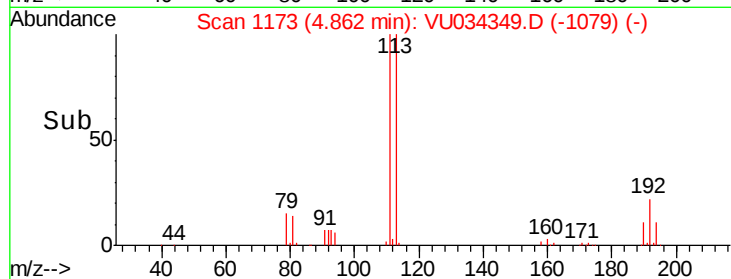
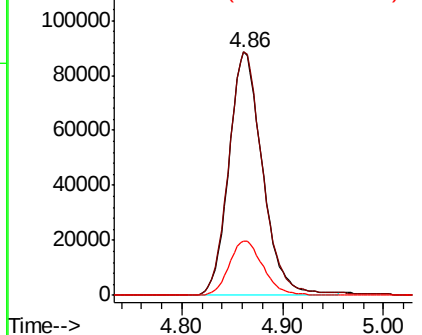


Abundance

Ion 112.80 (112.50 to 113.50): V

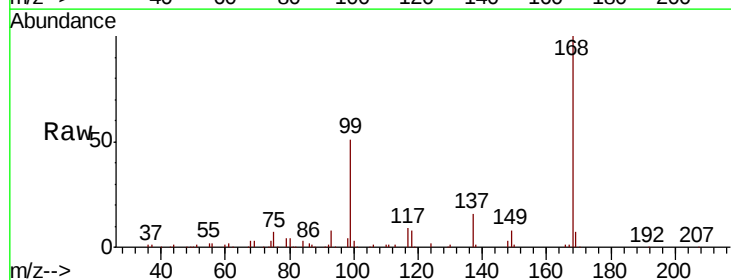
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 4.130 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034349.D
 Acq: 06 Sep 2019 23:08

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

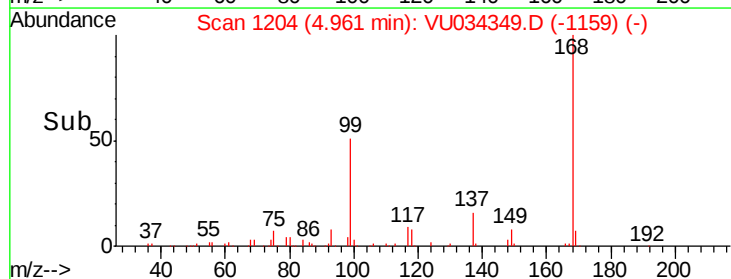
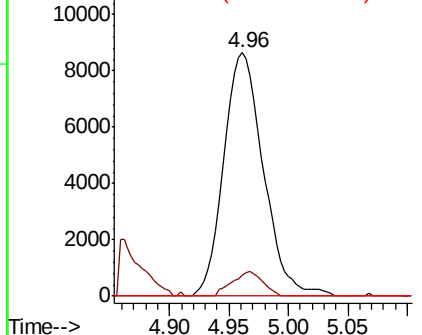


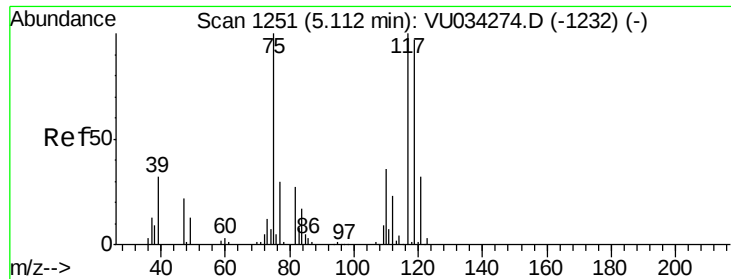
Abundance

Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 5.069 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.15 min

Lab File: VU034349.D

Acq: 06 Sep 2019 23:08

Instrument :

MSVOA_U

ClientSampleId :

S13-TB-2019-1

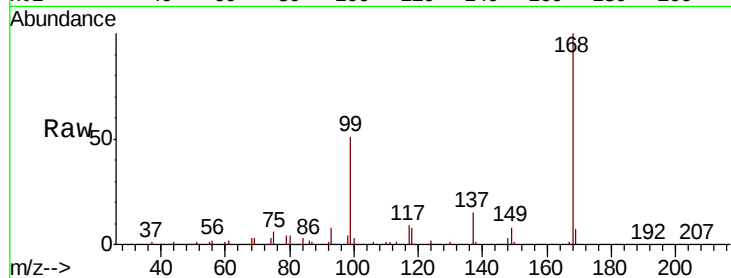
Tgt Ion:117 Resp: 26153

Ion Ratio Lower Upper

117 100

119 4.6 77.8 116.6#

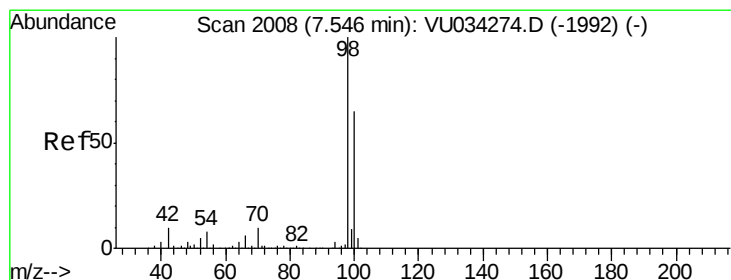
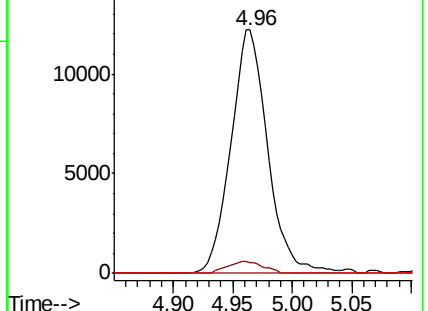
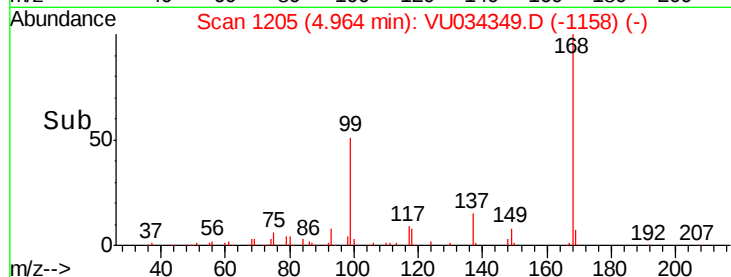
121 0.0 25.2 37.8#



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



#50

Toluene-d8

Concen: 49.278 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. -0.00 min

Lab File: VU034349.D

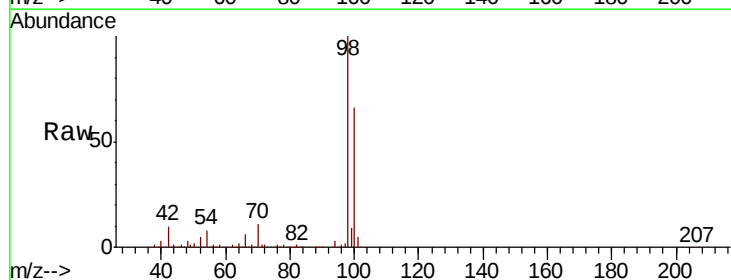
Acq: 06 Sep 2019 23:08

Tgt Ion: 98 Resp: 767574

Ion Ratio Lower Upper

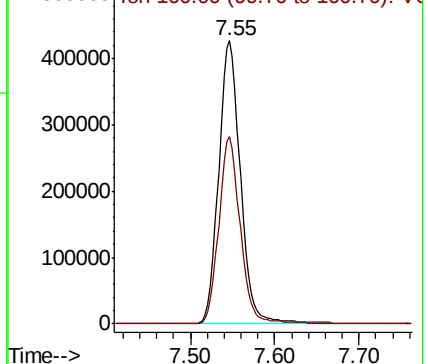
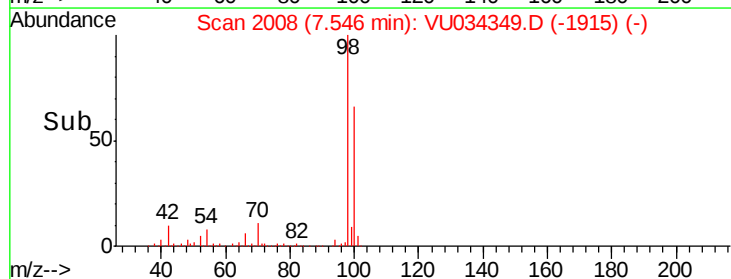
98 100

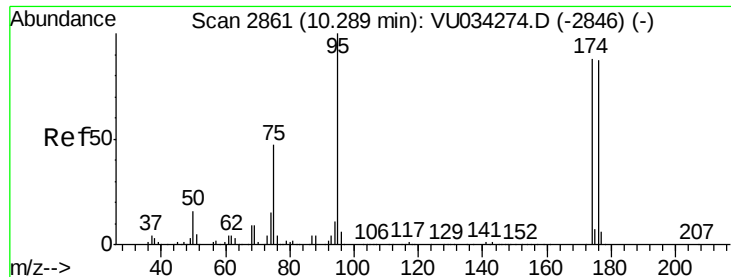
100 64.8 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU

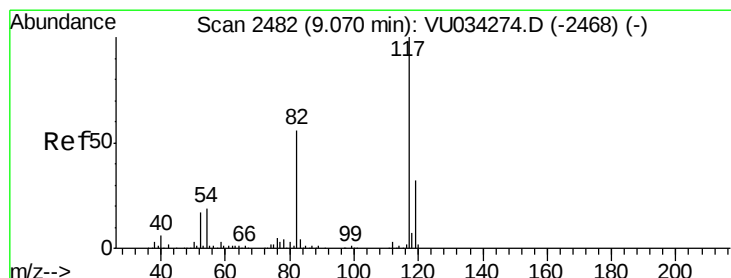
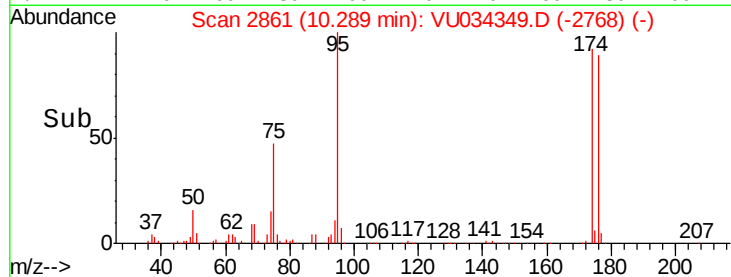
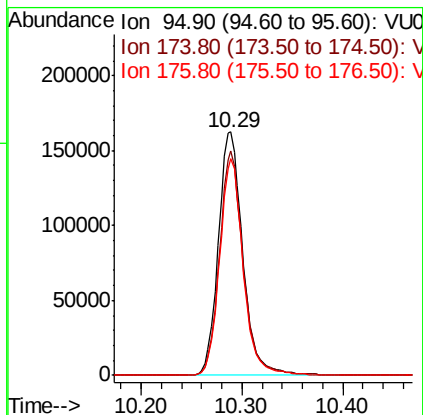
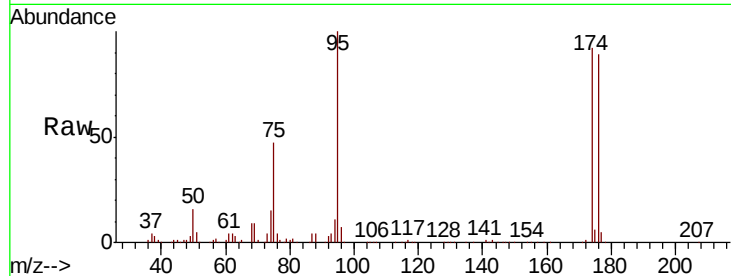




#62
4-Bromofluorobenzene
Concen: 45.574 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.00 min
Lab File: VU034349.D
Acq: 06 Sep 2019 23:08

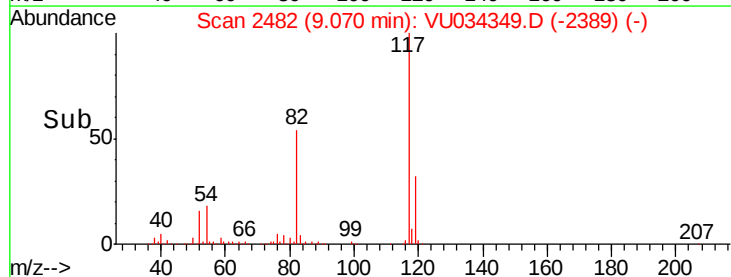
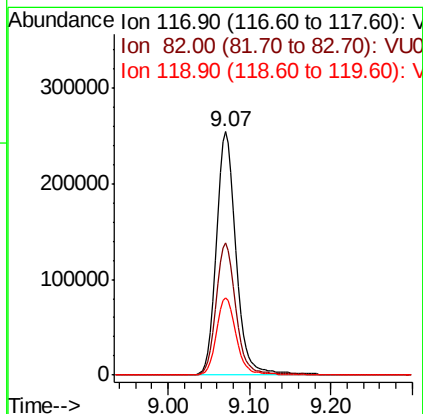
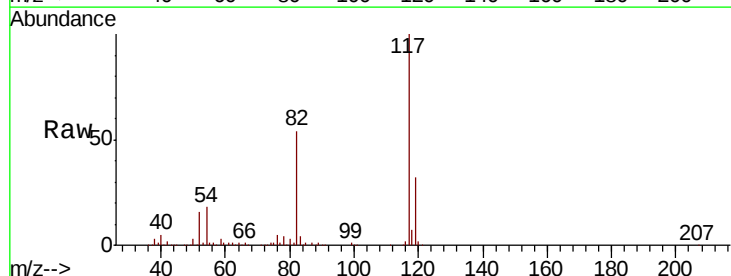
Instrument :
MSVOA_U
ClientSampleId :
S13-TB-2019-1

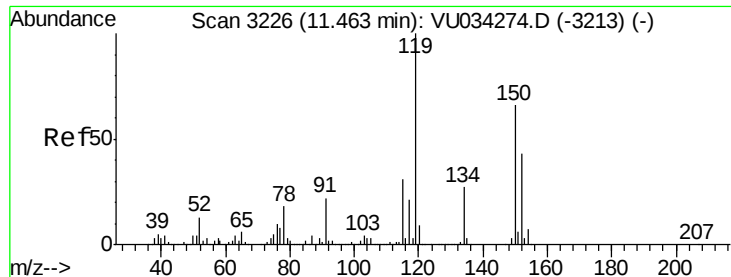
Tgt Ion: 95 Resp: 274079
Ion Ratio Lower Upper
95 100
174 90.0 0.0 175.2
176 86.7 0.0 168.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. -0.00 min
Lab File: VU034349.D
Acq: 06 Sep 2019 23:08

Tgt Ion: 117 Resp: 437175
Ion Ratio Lower Upper
117 100
82 54.1 44.6 67.0
119 31.9 25.9 38.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.46 min Scan# 3226

Delta R.T. -0.00 min

Lab File: VU034349.D

Acq: 06 Sep 2019 23:08

Instrument :

MSVOA_U

ClientSampleId :

S13-TB-2019-1

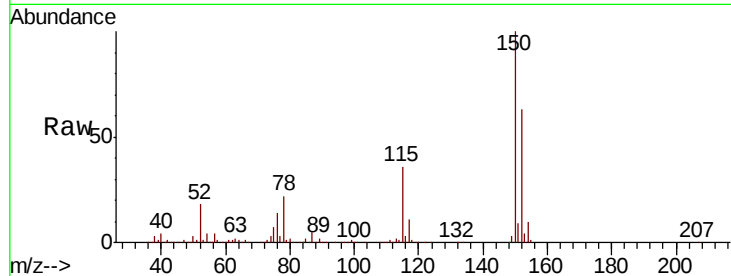
Tgt Ion:152 Resp: 257531

Ion Ratio Lower Upper

152 100

115 56.6 39.1 117.3

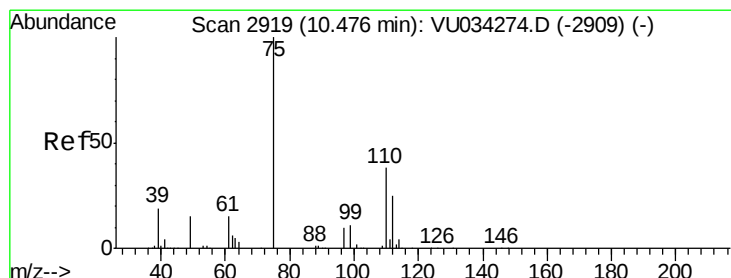
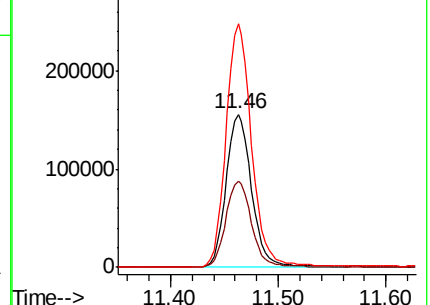
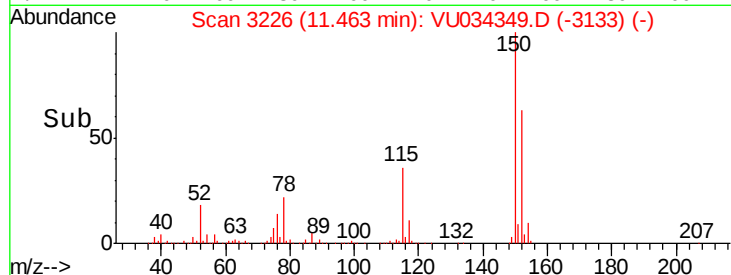
150 158.9 0.0 345.4



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: 22.717 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034349.D

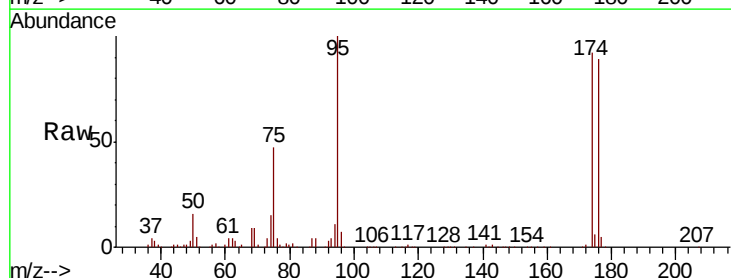
Acq: 06 Sep 2019 23:08

Tgt Ion: 75 Resp: 127704

Ion Ratio Lower Upper

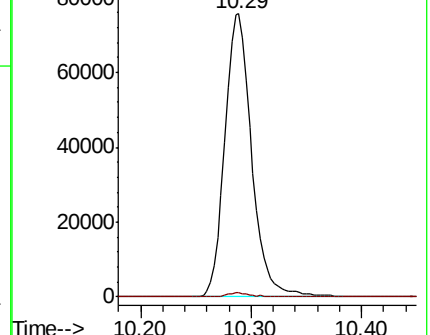
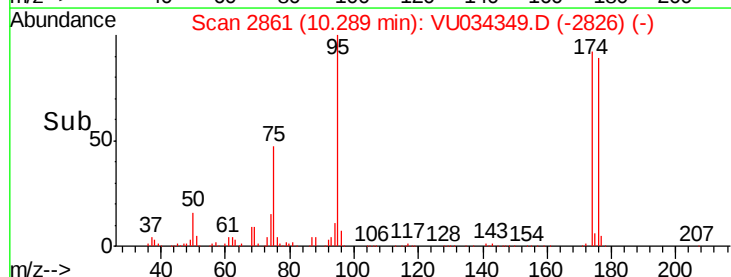
75 100

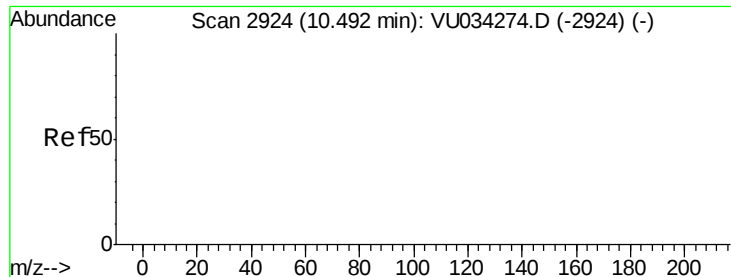
77 1.3 20.8 62.2#



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: 76.397 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.20 min

Lab File: VU034349.D

Acq: 06 Sep 2019 23:08

Instrument :

MSVOA_U

ClientSampleId :

S13-TB-2019-1

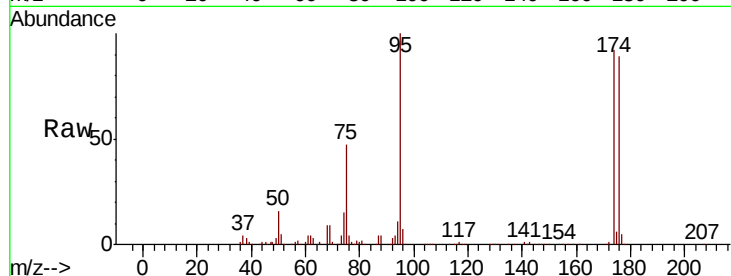
Tgt Ion: 75 Resp: 127704

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0#

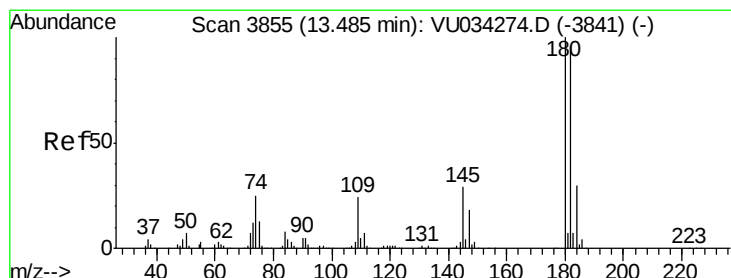
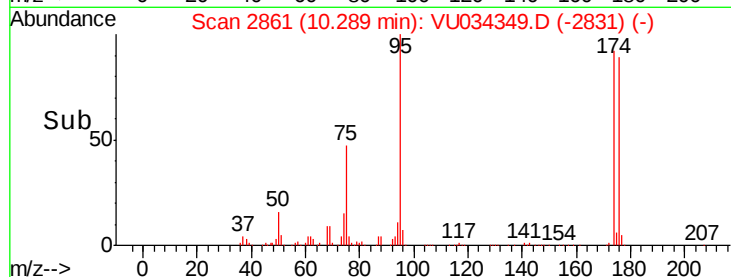
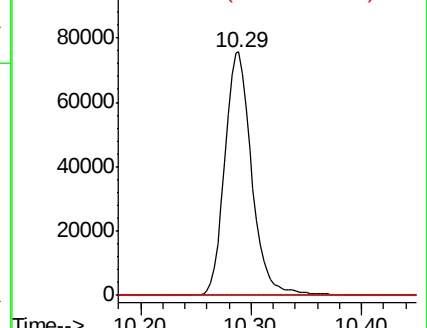
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU034274.D (-2924) (-)

Ion 53.00 (52.70 to 53.70): VU034274.D (-2924) (-)

Ion 88.90 (88.60 to 89.60): VU034274.D (-2924) (-)



#93

1,2,4-Trichlorobenzene

Concen: 3.484 ug/l

RT: 13.54 min Scan# 3873

Delta R.T. 0.06 min

Lab File: VU034349.D

Acq: 06 Sep 2019 23:08

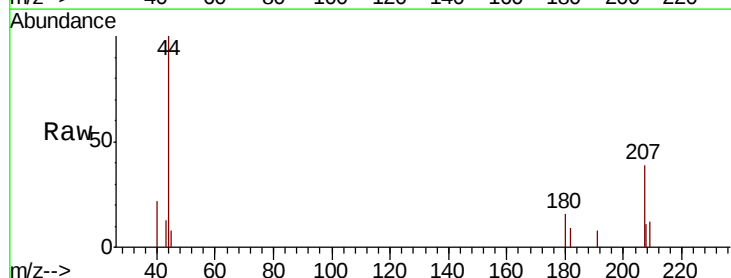
Tgt Ion: 180 Resp: 209

Ion Ratio Lower Upper

180 100

182 51.7 47.9 143.8

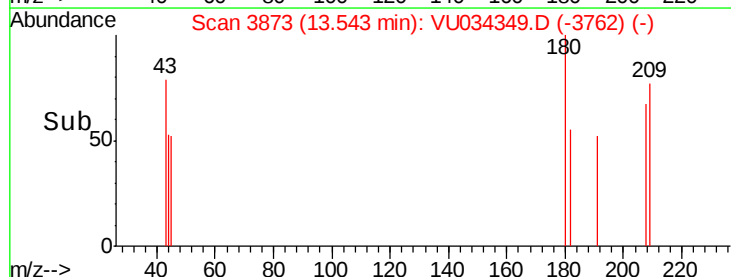
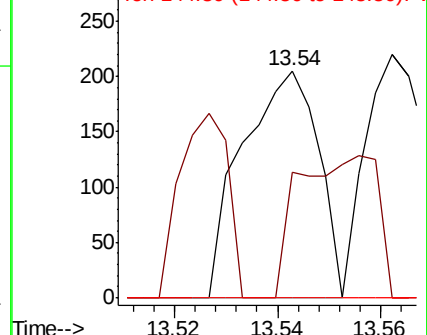
145 0.0 14.4 43.0#

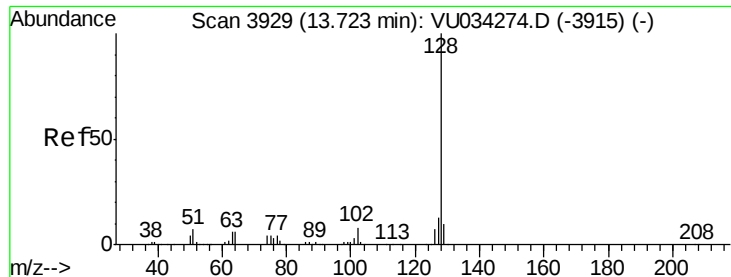


Abundance Ion 179.80 (179.50 to 180.50): VU034274.D (-3855) (-)

Ion 181.80 (181.50 to 182.50): VU034274.D (-3855) (-)

Ion 144.80 (144.50 to 145.50): VU034274.D (-3855) (-)





#95

Naphthalene

Concen: 4.026 ug/l

RT: 13.78 min Scan# 3946

Delta R.T. 0.05 min

Lab File: VU034349.D

Acq: 06 Sep 2019 23:08

Instrument :

MSVOA_U

ClientSampleId :

S13-TB-2019-1

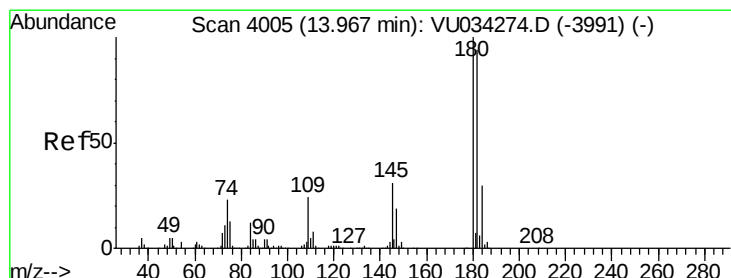
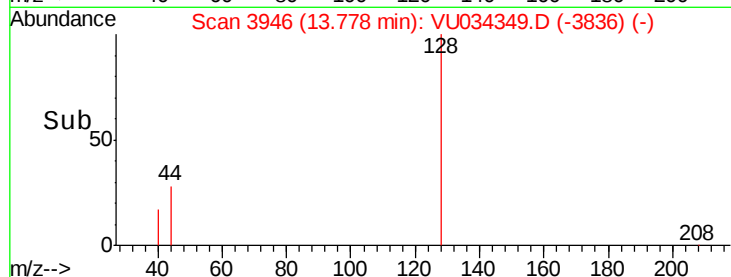
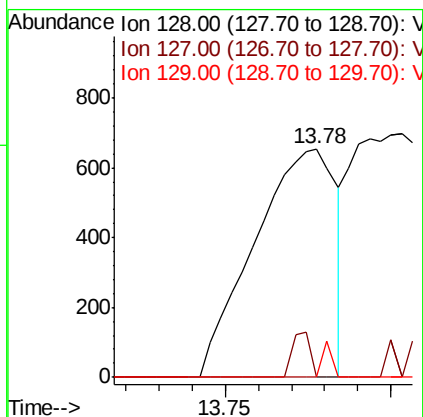
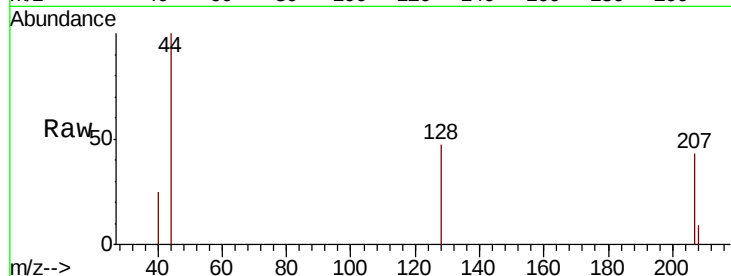
Tgt Ion:128 Resp: 1119

Ion Ratio Lower Upper

128 100

127 4.4 10.6 15.8#

129 1.8 8.4 12.6#



#96

1,2,3-Trichlorobenzene

Concen: 2.680 ug/l

RT: 14.01 min Scan# 4019

Delta R.T. 0.05 min

Lab File: VU034349.D

Acq: 06 Sep 2019 23:08

Tgt Ion:180 Resp: 256

Ion Ratio Lower Upper

180 100

182 113.3 48.4 145.0

145 0.0 15.4 46.4#

