

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU083019\
 Data File : VU034065.D
 Acq On : 29 Aug 2019 16:27
 Operator : JC/SP
 Sample : K4596-13
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 EB-5-082819

Quant Time: Aug 30 04:46:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 29 04:11:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	458835	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	740262	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	703837	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	351136	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.29	65	291767	49.63	ug/l	0.00
Spiked Amount			Recovery	=	99.26%	
35) Dibromofluoromethane	4.86	113	241309	47.00	ug/l	0.00
Spiked Amount			Recovery	=	94.00%	
50) Toluene-d8	7.55	98	931731	48.46	ug/l	0.00
Spiked Amount			Recovery	=	96.92%	
62) 4-Bromofluorobenzene	10.29	95	323593	43.27	ug/l	0.00
Spiked Amount			Recovery	=	86.54%	

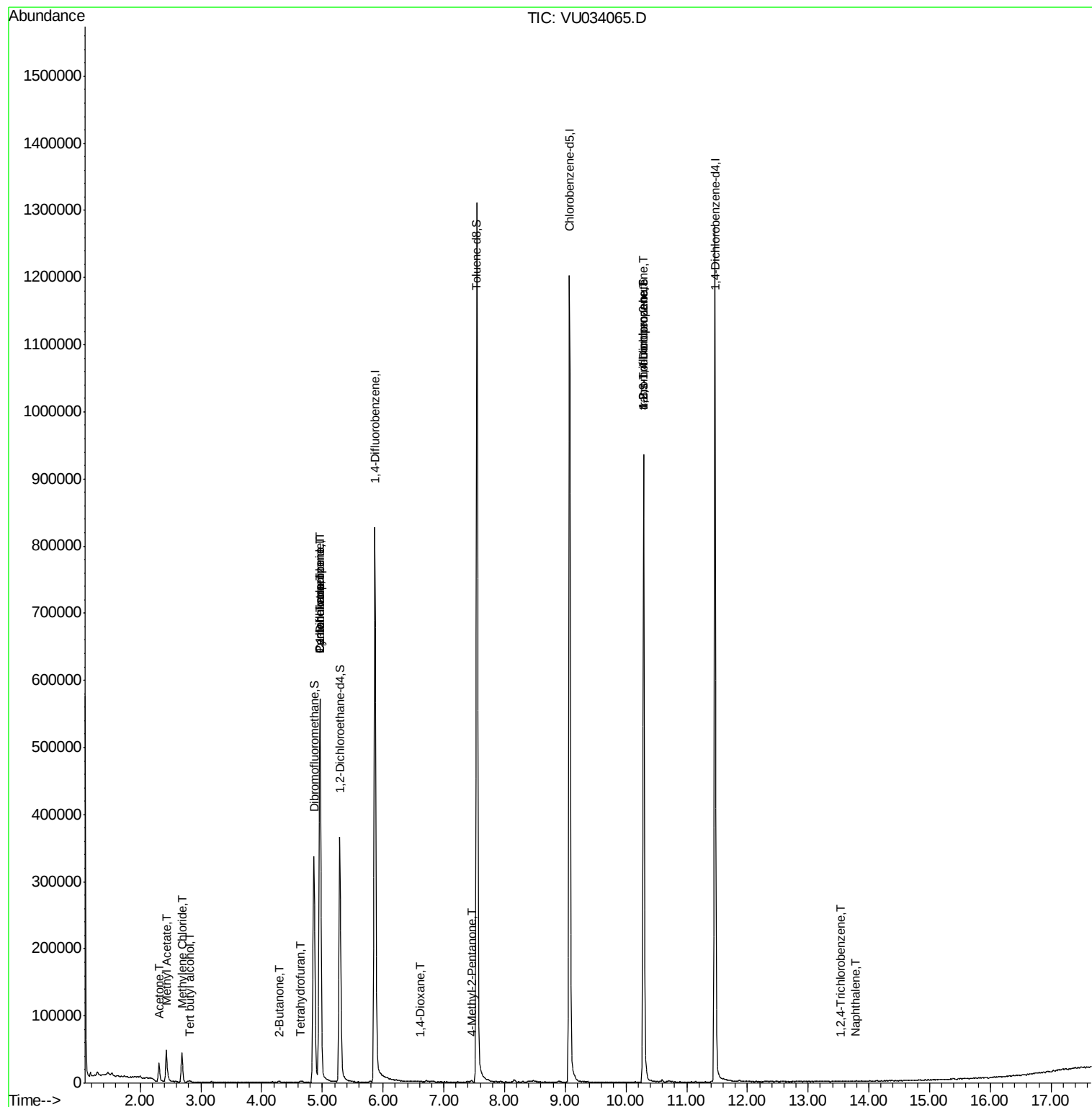
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	975	Below Cal	#	85
5) Bromomethane	1.60	94	41	Below Cal	#	2
11) Tert butyl alcohol	2.82	59	2819	2.079	ug/l #	84
16) Acetone	2.31	43	31063	10.355	ug/l	99
18) Methyl Acetate	2.43	43	11714	1.511	ug/l #	51
20) Methylene Chloride	2.69	84	19627	3.456	ug/l	95
25) 2-Butanone	4.29	43	3725	0.893	ug/l #	89
29) Tetrahydrofuran	4.64	42	2167	0.842	ug/l #	60
31) Cyclohexane	4.96	56	8531	0.972	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	33738	4.818	ug/l #	48
38) Carbon Tetrachloride	4.96	117	42248	6.251	ug/l #	17
49) 1,4-Dioxane	6.61	88	41	0.284	ug/l #	1
51) 4-Methyl-2-Pentanone	7.45	43	1763	0.214	ug/l	91
76) 1,2,3-Trichloropropane	10.29	75	155439	19.641	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	155439	66.136	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.53	180	45	1.120	ug/l #	50
95) Naphthalene	13.78	128	287	1.802	ug/l #	70

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

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Quant Title : SW846 8260
QLast Update : Thu Aug 29 04:11:12 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034065.D

Acq: 29 Aug 2019 16:27

Instrument :

MSVOA_U

ClientSampleId :

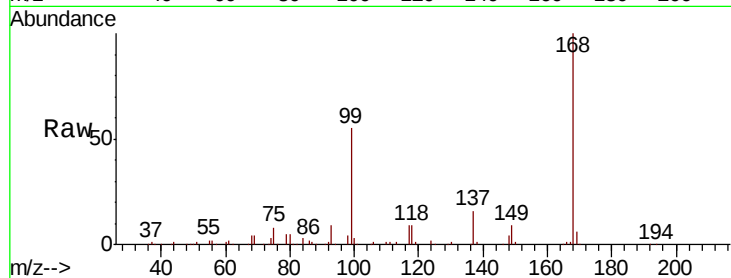
EB-5-082819

Tgt Ion:168 Resp: 458835

Ion Ratio Lower Upper

168 100

99 54.9 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034018.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU034018.D (-1185) (-)

4.96

200000

150000

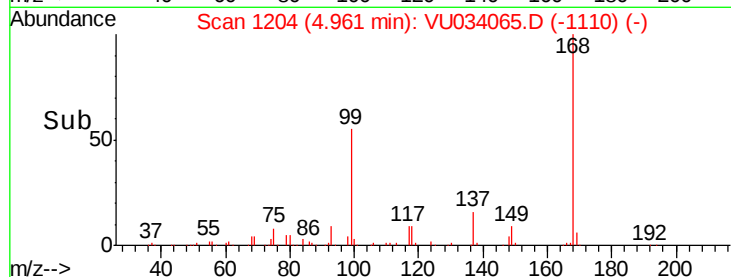
100000

50000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034065.D

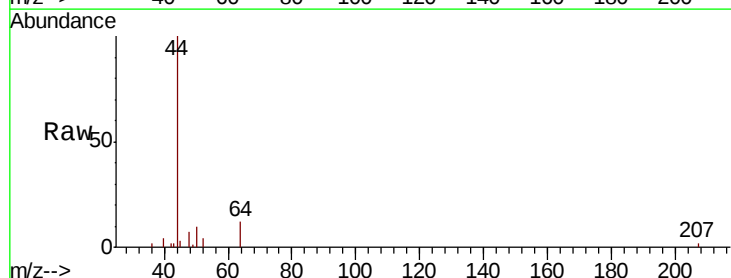
Acq: 29 Aug 2019 16:27

Tgt Ion: 50 Resp: 975

Ion Ratio Lower Upper

50 100

52 41.4 26.2 39.4#



Abundance Ion 49.90 (49.60 to 50.60): VU034018.D (-63) (-)

Ion 51.90 (51.60 to 52.60): VU034018.D (-63) (-)

1.32

1000

800

600

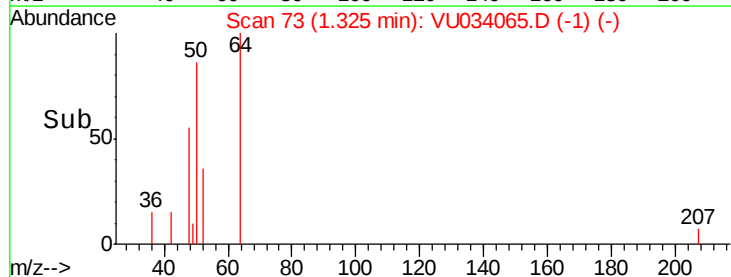
400

200

0

1.30 1.32 1.34

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VU034065.D

Acq: 29 Aug 2019 16:27

Instrument :

MSVOA_U

ClientSampleId :

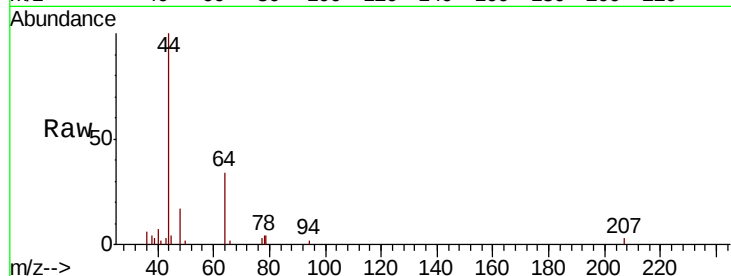
EB-5-082819

Tgt Ion: 94 Resp: 41

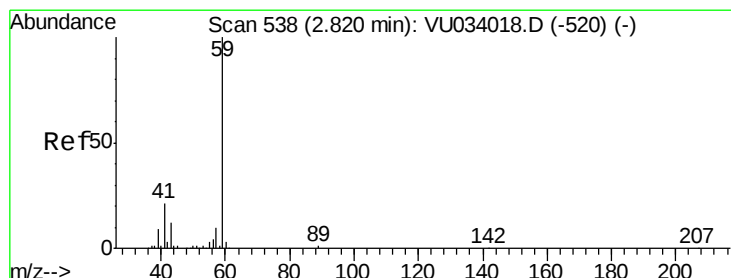
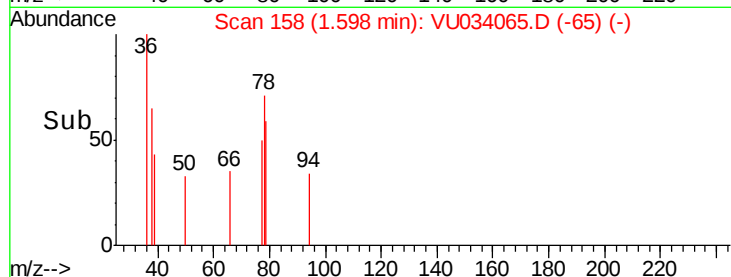
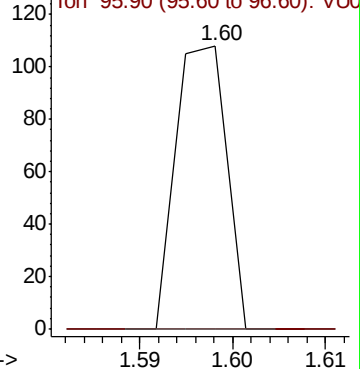
Ion Ratio Lower Upper

94 100

96 0.0 76.3 114.5#



Abundance Ion 93.90 (93.60 to 94.60): VU034018.D (-143) (-)



#11

Tert butyl alcohol

Concen: 2.079 ug/l

RT: 2.82 min Scan# 538

Delta R.T. 0.00 min

Lab File: VU034065.D

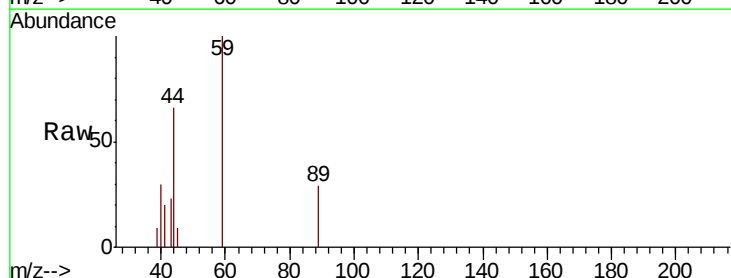
Acq: 29 Aug 2019 16:27

Tgt Ion: 59 Resp: 2819

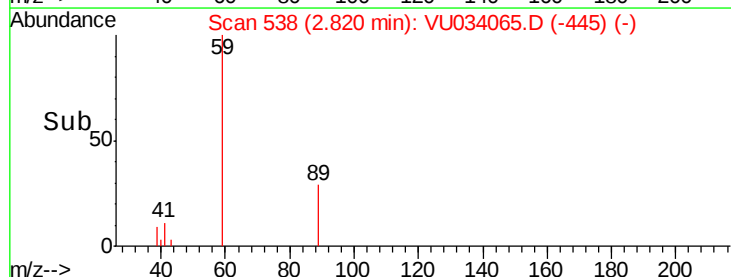
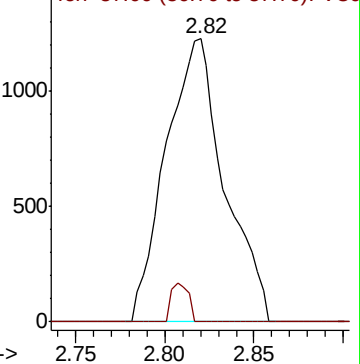
Ion Ratio Lower Upper

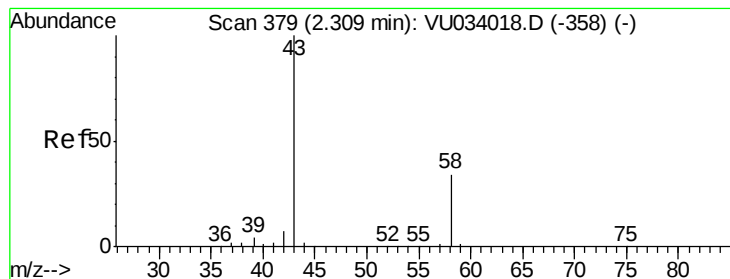
59 100

57 4.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU034018.D (-520) (-)





#16

Acetone

Concen: 10.355 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034065.D

Acq: 29 Aug 2019 16:27

Instrument :

MSVOA_U

ClientSampleId :

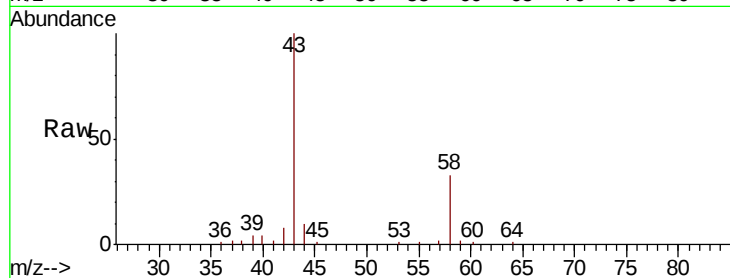
EB-5-082819

Tgt Ion: 43 Resp: 31063

Ion Ratio Lower Upper

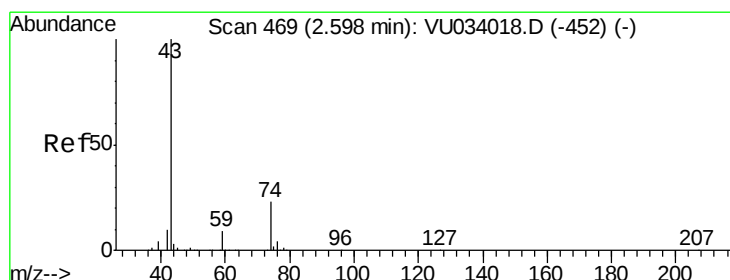
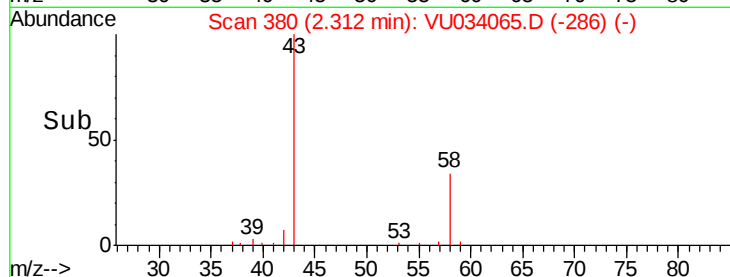
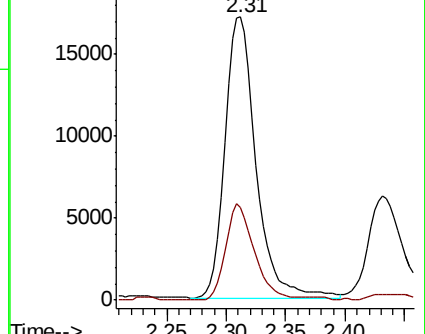
43 100

58 33.1 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-358) (-)

Ion 58.00 (57.70 to 58.70): VU034018.D (-358) (-)



#18

Methyl Acetate

Concen: 1.511 ug/l

RT: 2.43 min Scan# 417

Delta R.T. -0.17 min

Lab File: VU034065.D

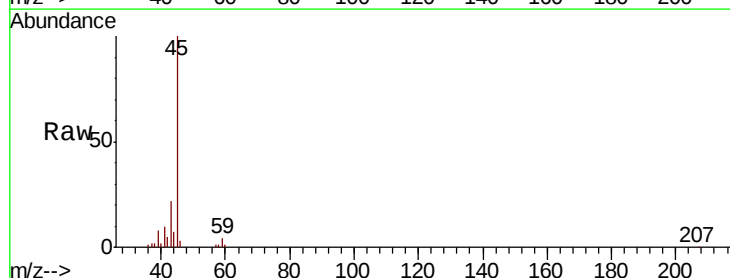
Acq: 29 Aug 2019 16:27

Tgt Ion: 43 Resp: 11714

Ion Ratio Lower Upper

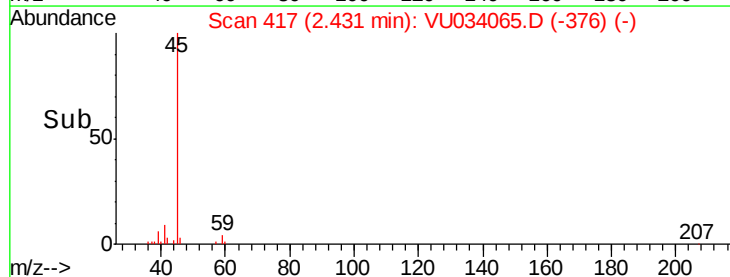
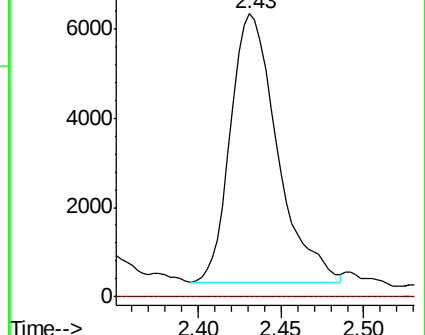
43 100

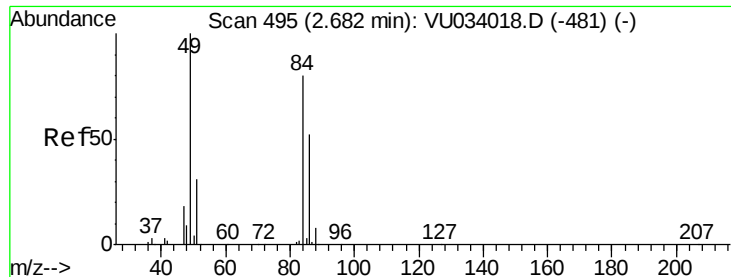
74 0.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-452) (-)

Ion 74.00 (73.70 to 74.70): VU034018.D (-452) (-)





#20

Methylene Chloride

Concen: 3.456 ug/l

RT: 2.69 min Scan# 497

Delta R.T. 0.01 min

Lab File: VU034065.D

Acq: 29 Aug 2019 16:27

Instrument :

MSVOA_U

ClientSampleId :

EB-5-082819

Tgt Ion: 84 Resp: 19627

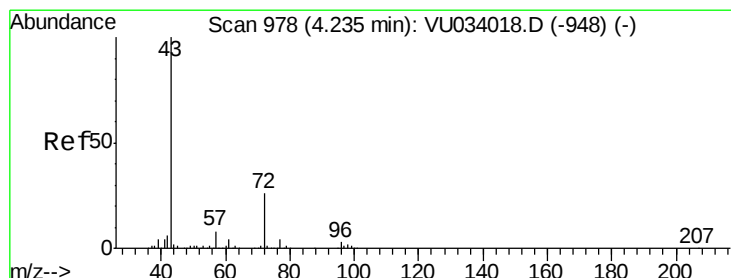
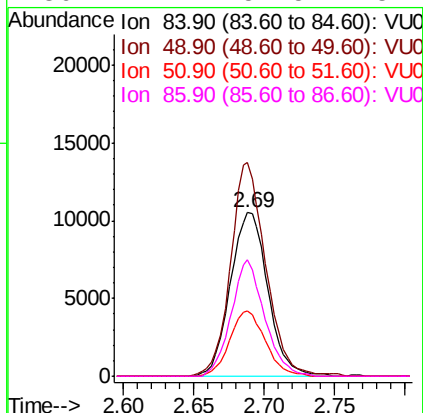
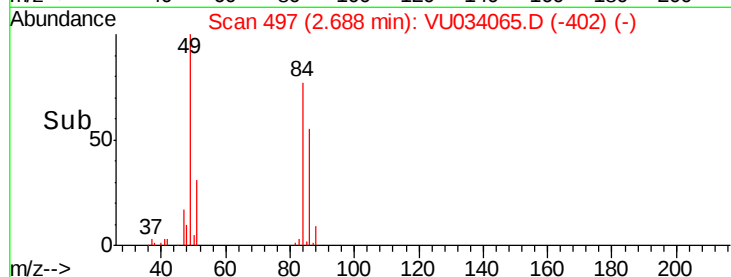
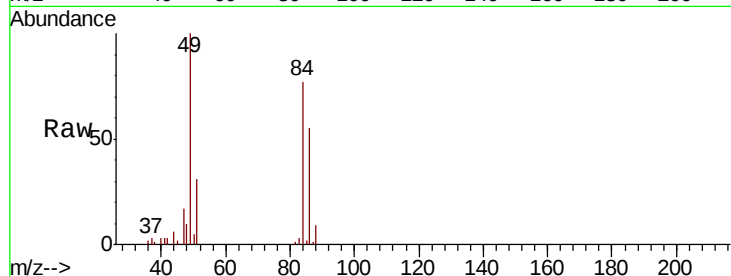
Ion Ratio Lower Upper

84 100

49 130.4 100.2 150.4

51 40.3 30.8 46.2

86 71.1 52.5 78.7



#25

2-Butanone

Concen: 0.893 ug/l

RT: 4.29 min Scan# 994

Delta R.T. 0.05 min

Lab File: VU034065.D

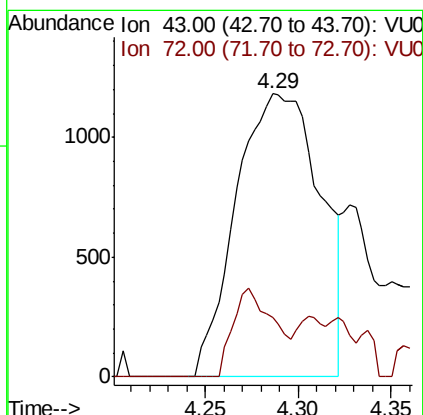
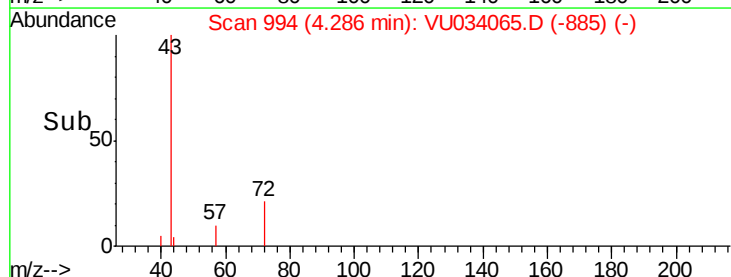
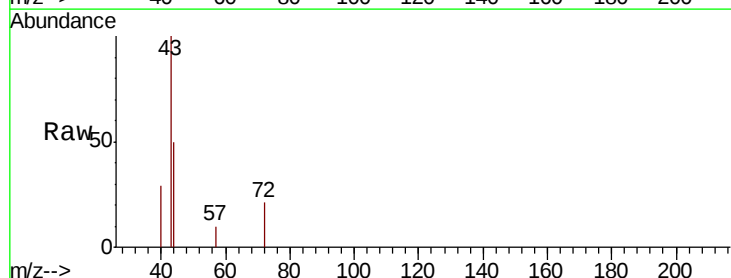
Acq: 29 Aug 2019 16:27

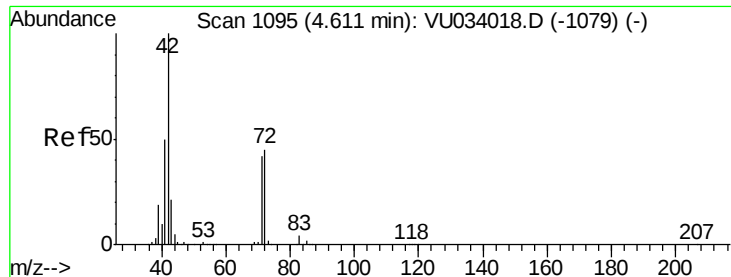
Tgt Ion: 43 Resp: 3725

Ion Ratio Lower Upper

43 100

72 21.0 21.2 31.8#





#29

Tetrahydrofuran

Concen: 0.842 ug/l

RT: 4.64 min Scan# 1105

Delta R.T. 0.03 min

Lab File: VU034065.D

Acq: 29 Aug 2019 16:27

Instrument :

MSVOA_U

ClientSampleId :

EB-5-082819

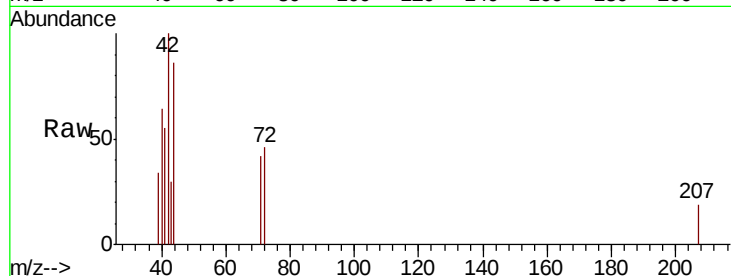
Tgt Ion: 42 Resp: 2167

Ion Ratio Lower Upper

42 100

72 29.9 35.8 53.6#

71 5.4 34.0 51.0#

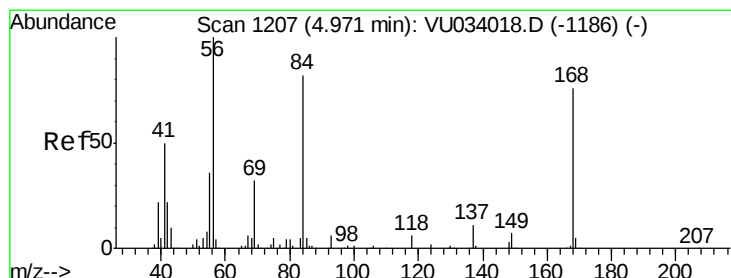
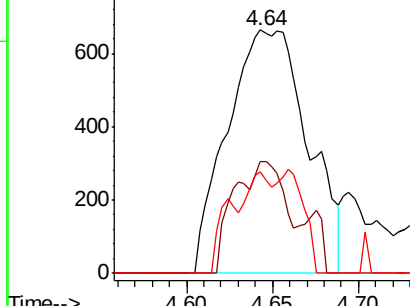
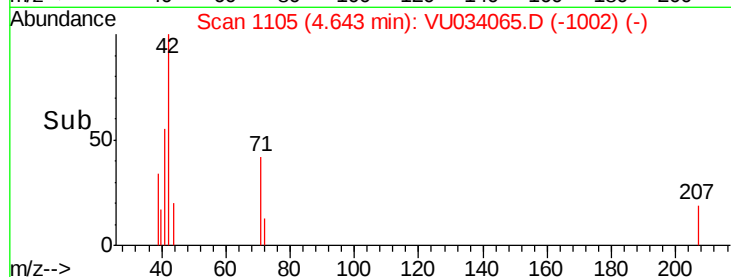


Abundance Ion 42.00 (41.70 to 42.70): VU034018.D (-1079) (-)

Ion 72.00 (71.70 to 72.70): VU034018.D (-1079) (-)

Ion 71.00 (70.70 to 71.70): VU034018.D (-1079) (-)

Time-->



#31

Cyclohexane

Concen: 0.972 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU034065.D

Acq: 29 Aug 2019 16:27

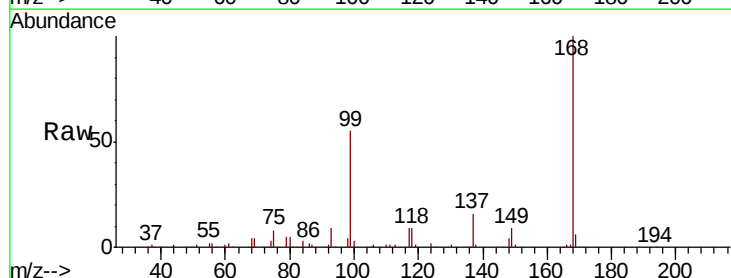
Tgt Ion: 56 Resp: 8531

Ion Ratio Lower Upper

56 100

69 196.2 25.4 38.0#

84 157.8 65.8 98.8#

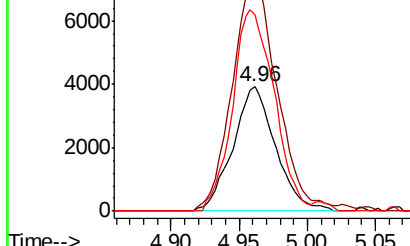
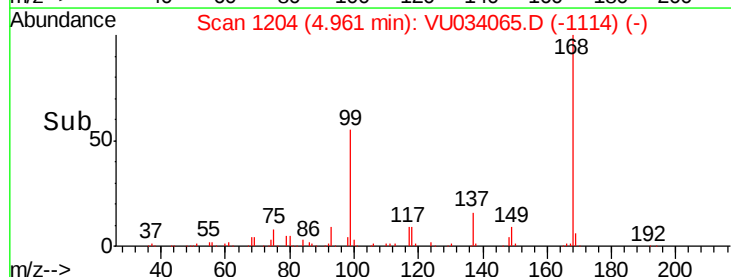


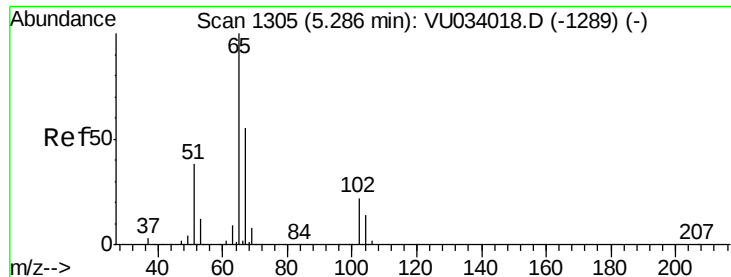
Abundance Ion 56.00 (55.70 to 56.70): VU034018.D (-1186) (-)

Ion 69.00 (68.70 to 69.70): VU034018.D (-1186) (-)

Ion 84.00 (83.70 to 84.70): VU034018.D (-1186) (-)

Time-->

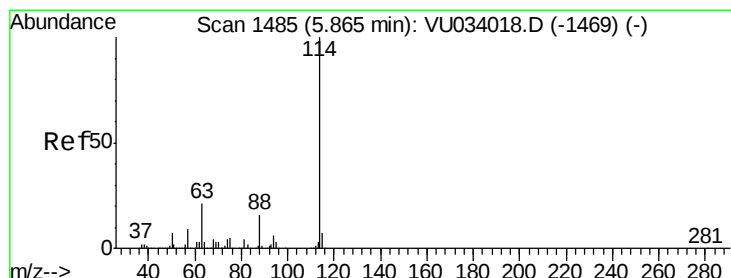
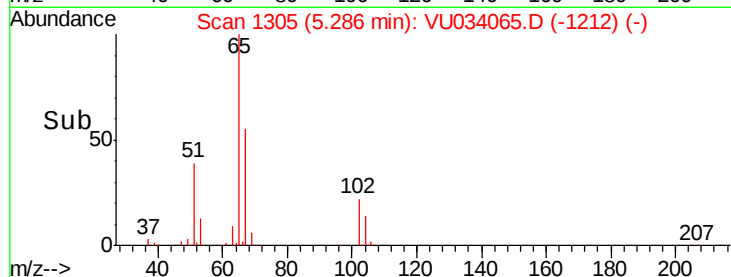
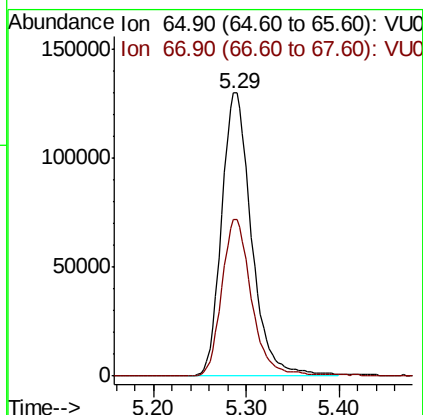
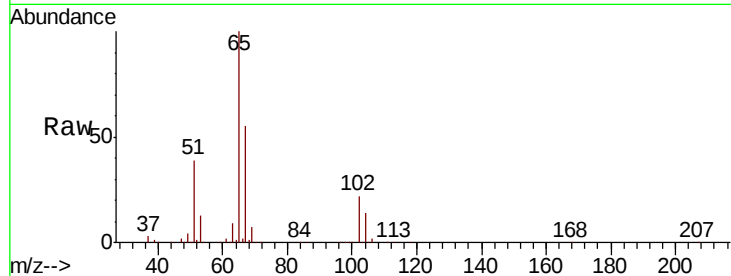




#33
 1,2-Dichloroethane-d4
 Concen: 49.627 ug/l
 RT: 5.29 min Scan# 1305
 Delta R.T. 0.00 min
 Lab File: VU034065.D
 Acq: 29 Aug 2019 16:27

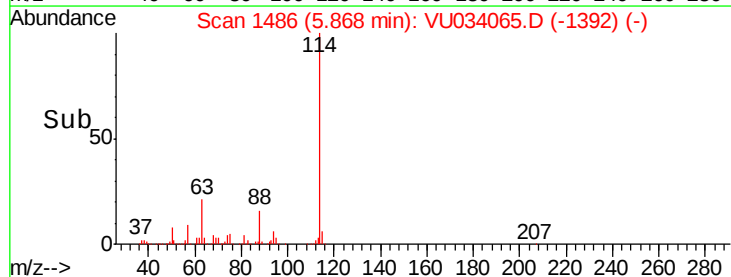
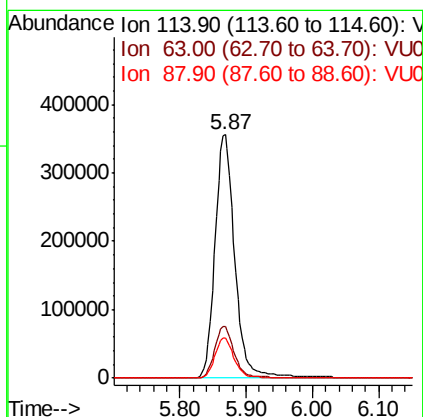
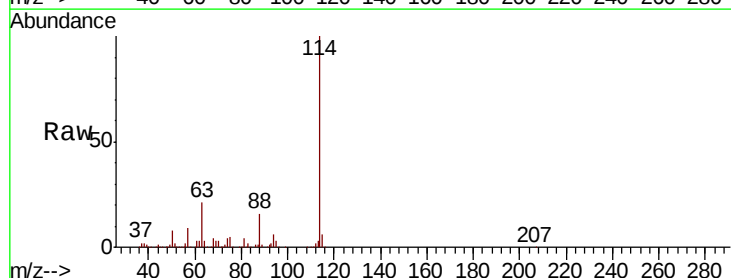
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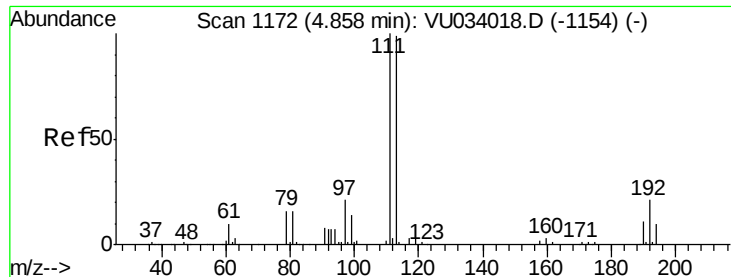
Tgt Ion: 65 Resp: 291767
 Ion Ratio Lower Upper
 65 100
 67 55.1 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034065.D
 Acq: 29 Aug 2019 16:27

Tgt Ion: 114 Resp: 740262
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 42.0
 88 16.4 0.0 32.0

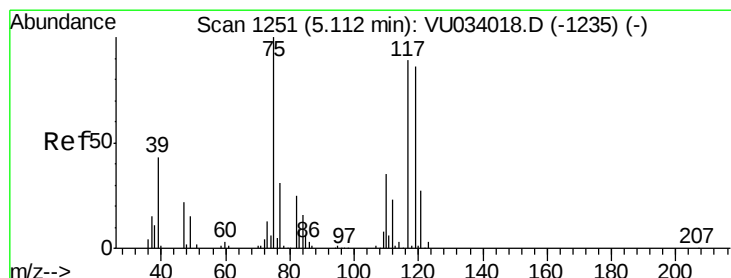
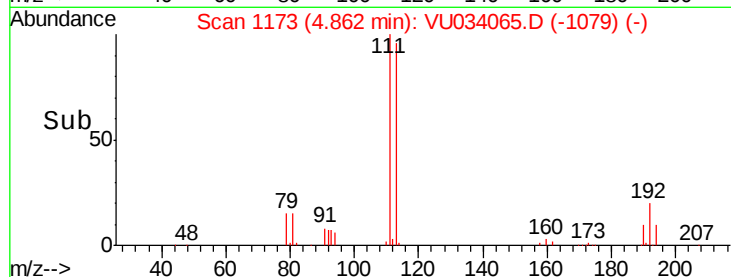
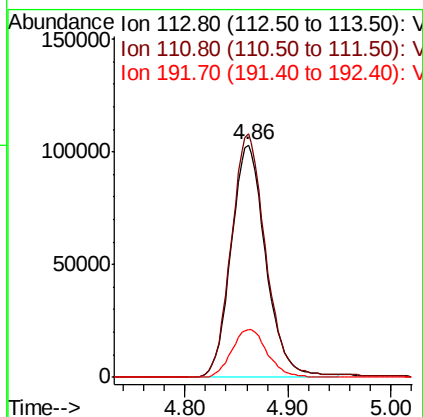
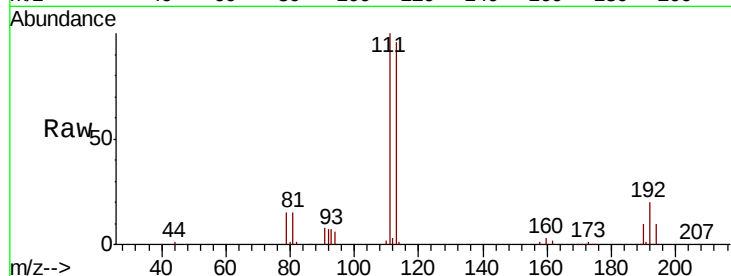




#35
 Dibromofluoromethane
 Concen: 46.999 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034065.D
 Acq: 29 Aug 2019 16:27

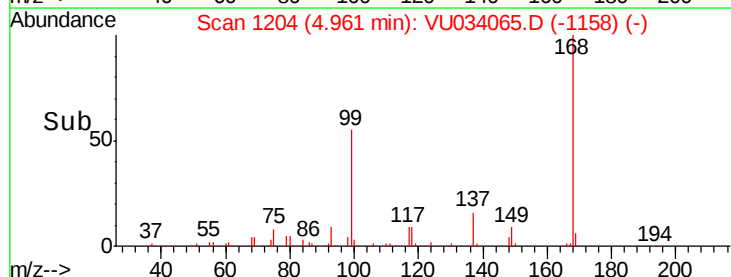
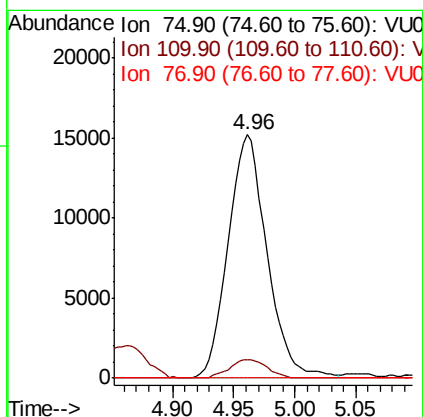
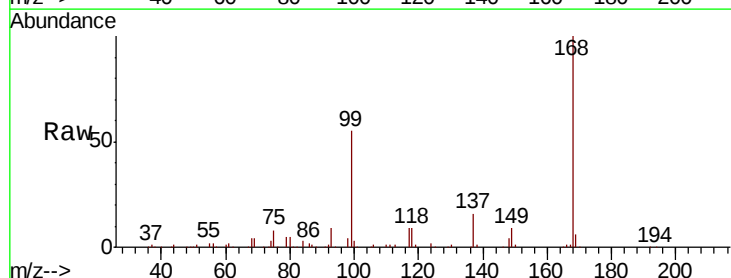
Instrument :
 MSVOA_U
 ClientSampleId :
 EB-5-082819

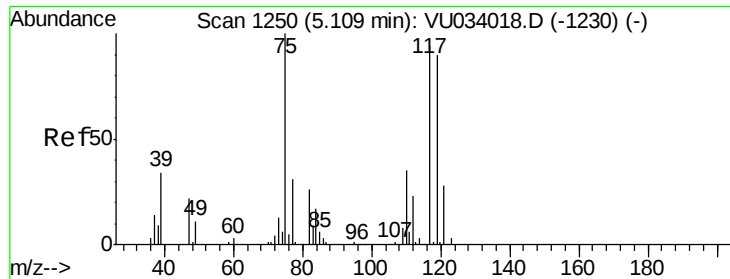
Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.0	81.7	122.5
192	21.3	17.1	25.7



#36
 1,1-Dichloropropene
 Concen: 4.818 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034065.D
 Acq: 29 Aug 2019 16:27

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.4	17.8	53.5#
77	0.0	25.0	37.4#

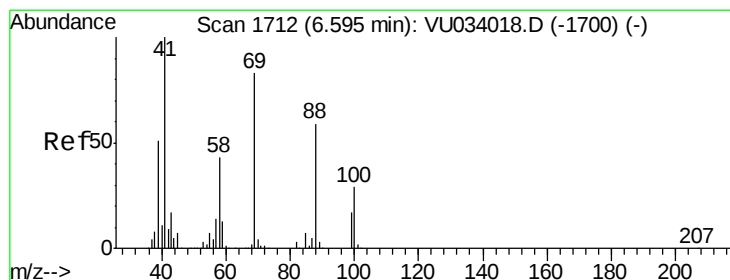
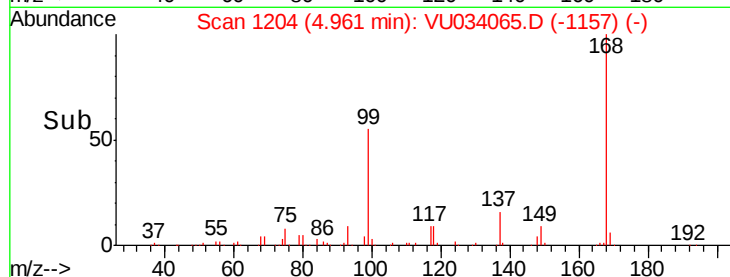
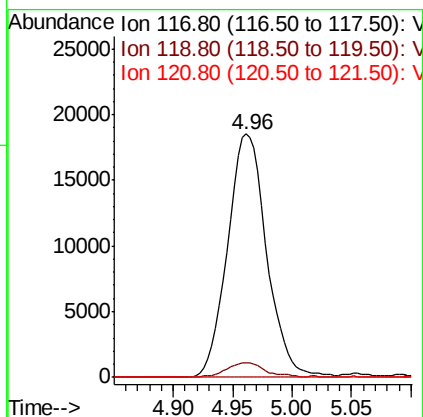
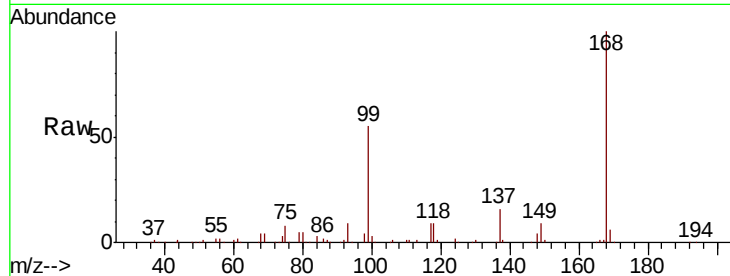




#38
 Carbon Tetrachloride
 Concen: 6.251 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034065.D
 Acq: 29 Aug 2019 16:27

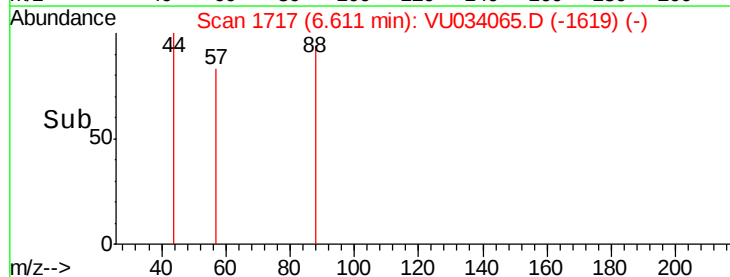
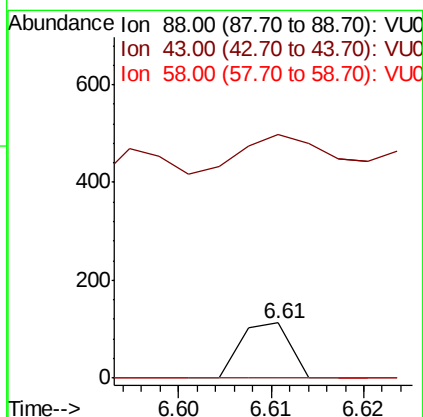
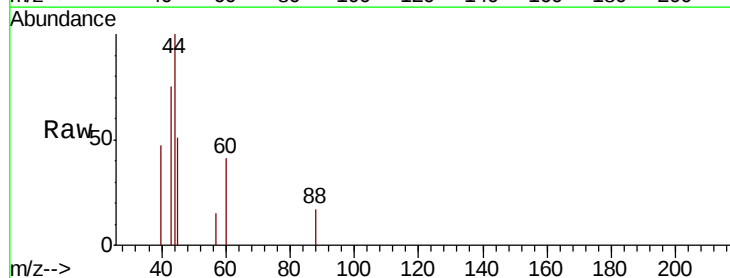
Instrument :
 MSVOA_U
 ClientSampleId :
 EB-5-082819

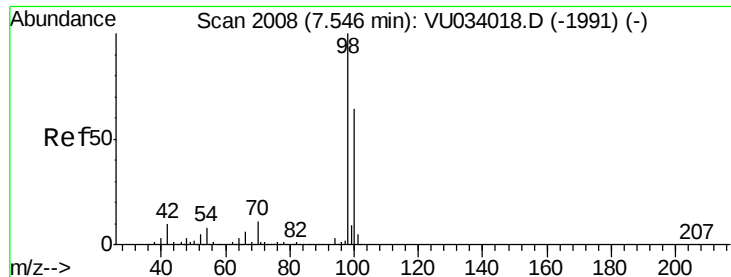
Tgt Ion: 117 Resp: 42248
 Ion Ratio Lower Upper
 117 100
 119 6.0 77.0 115.4#
 121 0.0 23.9 35.9#



#49
 1,4-Dioxane
 Concen: 0.284 ug/l
 RT: 6.61 min Scan# 1717
 Delta R.T. 0.02 min
 Lab File: VU034065.D
 Acq: 29 Aug 2019 16:27

Tgt Ion: 88 Resp: 41
 Ion Ratio Lower Upper
 88 100
 43 682.9 24.8 37.2#
 58 0.0 59.3 88.9#





#50

Toluene-d8

Concen: 48.464 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034065.D

Acq: 29 Aug 2019 16:27

Instrument :

MSVOA_U

ClientSampleId :

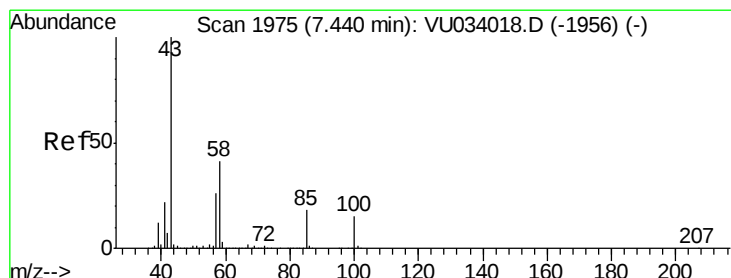
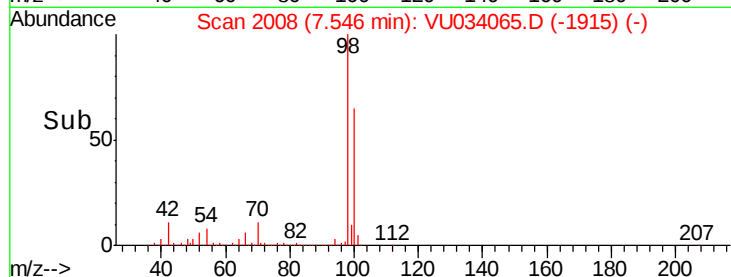
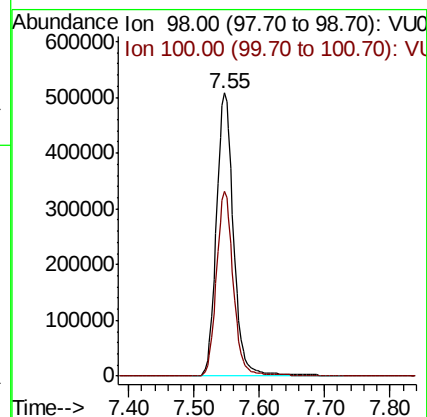
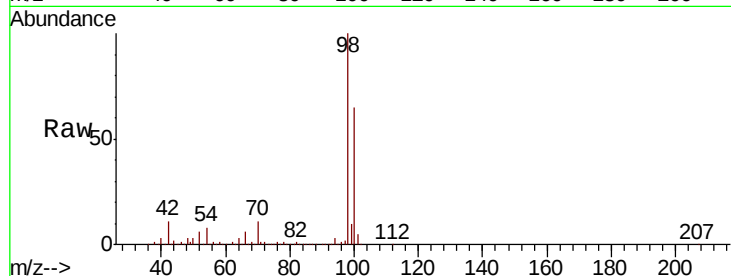
EB-5-082819

Tgt Ion: 98 Resp: 931731

Ion Ratio Lower Upper

98 100

100 63.8 50.3 75.5



#51

4-Methyl-2-Pentanone

Concen: 0.214 ug/l

RT: 7.45 min Scan# 1979

Delta R.T. 0.01 min

Lab File: VU034065.D

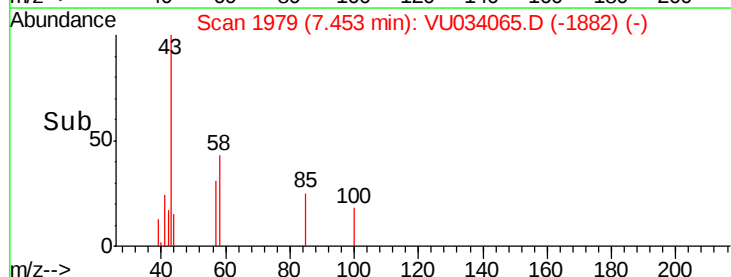
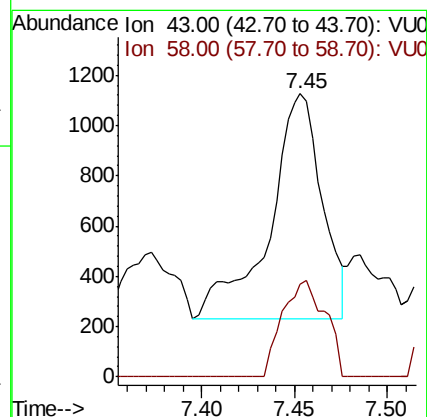
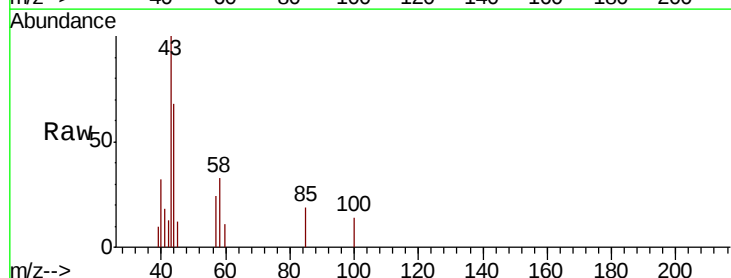
Acq: 29 Aug 2019 16:27

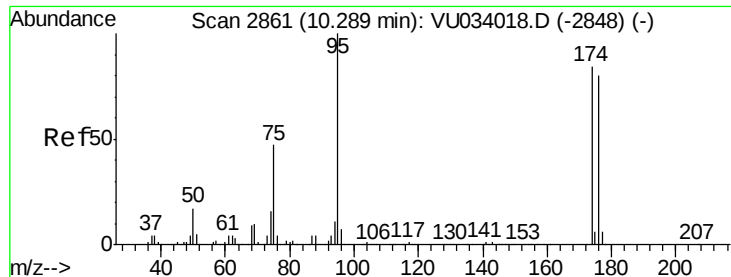
Tgt Ion: 43 Resp: 1763

Ion Ratio Lower Upper

43 100

58 34.7 32.2 48.4

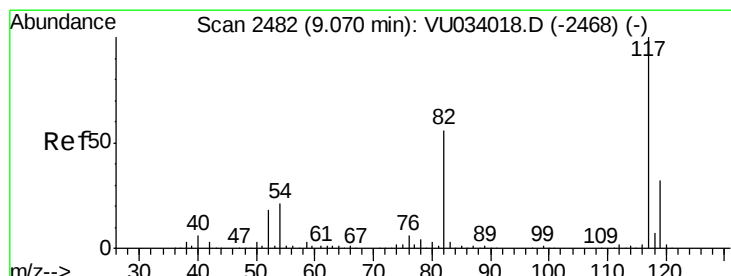
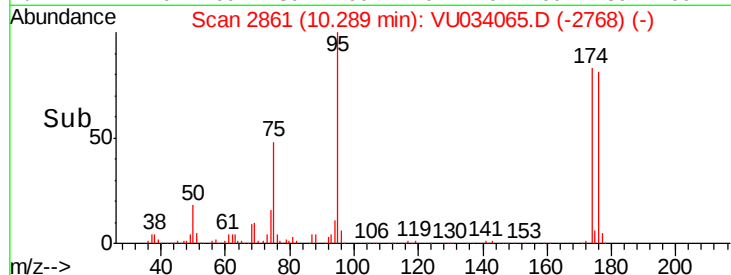
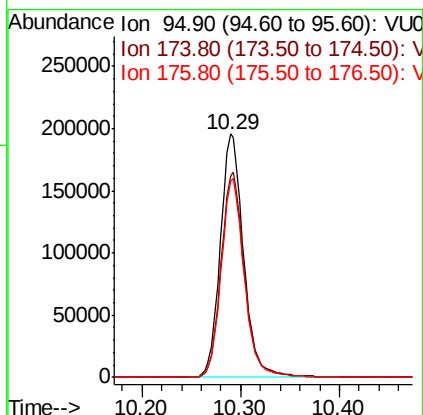
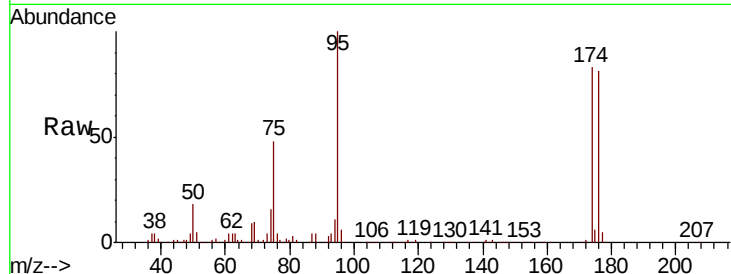




#62
4-Bromofluorobenzene
Concen: 43.271 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034065.D
Acq: 29 Aug 2019 16:27

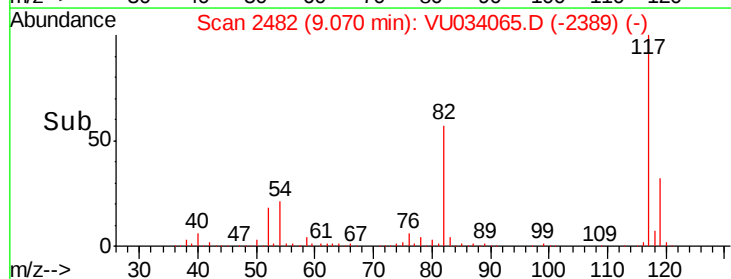
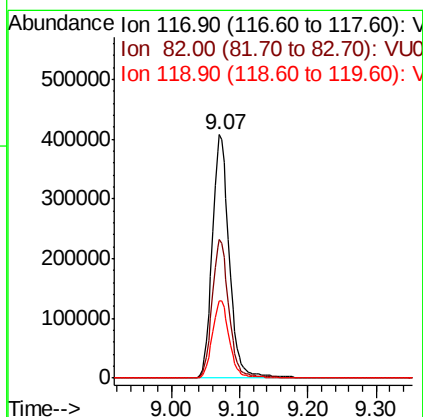
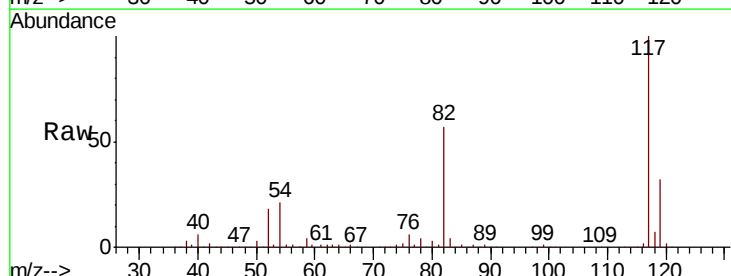
Instrument :
MSVOA_U
ClientSampleId :
EB-5-082819

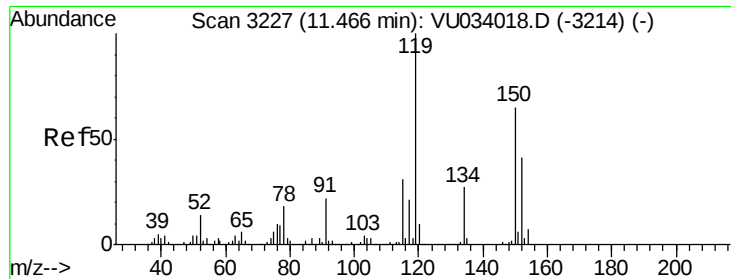
Tgt Ion	Ratio	Lower	Upper
95	100		
174	85.7	0.0	168.8
176	81.5	0.0	161.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034065.D
Acq: 29 Aug 2019 16:27

Tgt Ion	Ratio	Lower	Upper
117	100		
82	57.1	45.1	67.7
119	31.9	25.4	38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.47 min Scan# 3227

Delta R.T. 0.00 min

Lab File: VU034065.D

Acq: 29 Aug 2019 16:27

Instrument :

MSVOA_U

ClientSampleId :

EB-5-082819

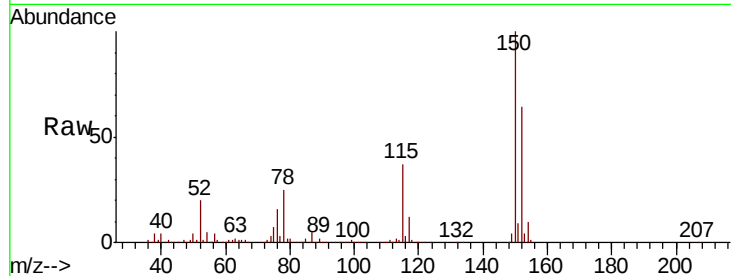
Tgt Ion:152 Resp: 351136

Ion Ratio Lower Upper

152 100

115 57.8 41.1 123.3

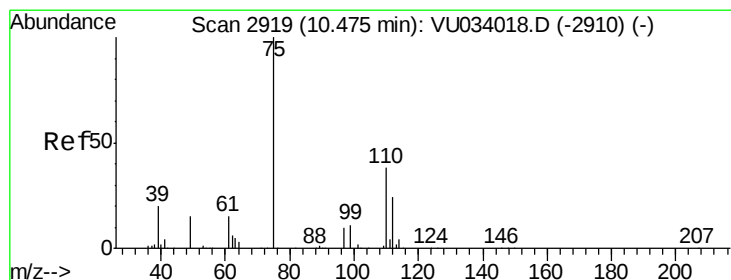
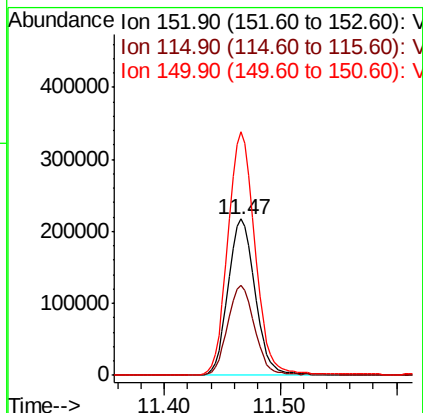
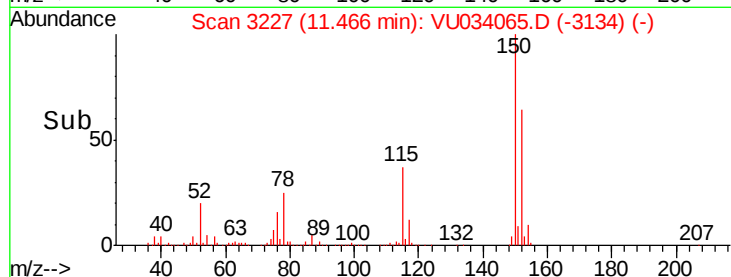
150 155.7 0.0 348.8



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: 19.641 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034065.D

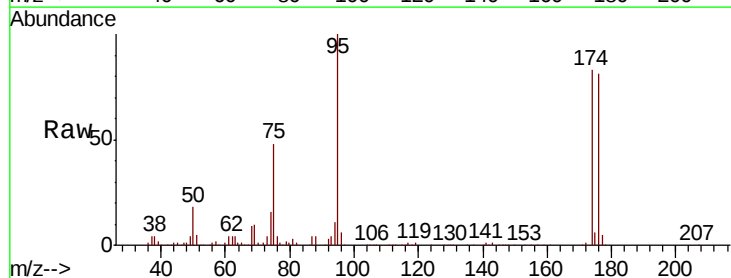
Acq: 29 Aug 2019 16:27

Tgt Ion: 75 Resp: 155439

Ion Ratio Lower Upper

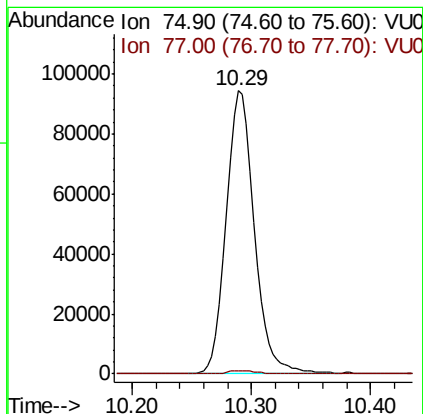
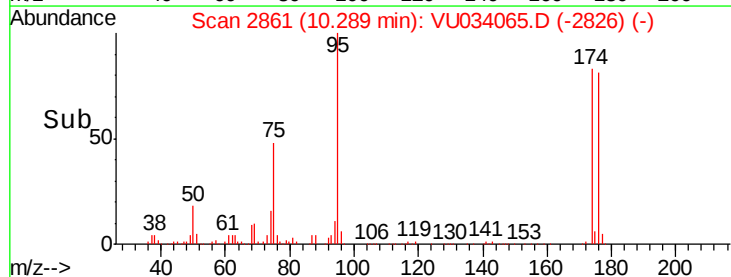
75 100

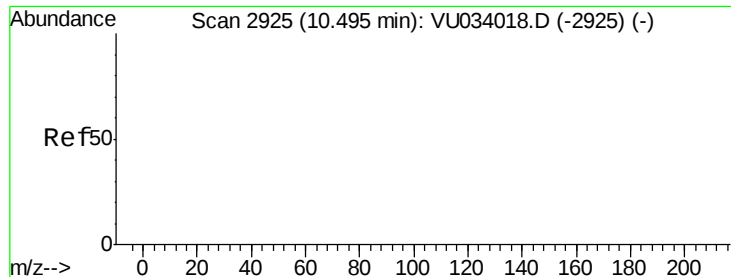
77 1.3 20.1 60.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

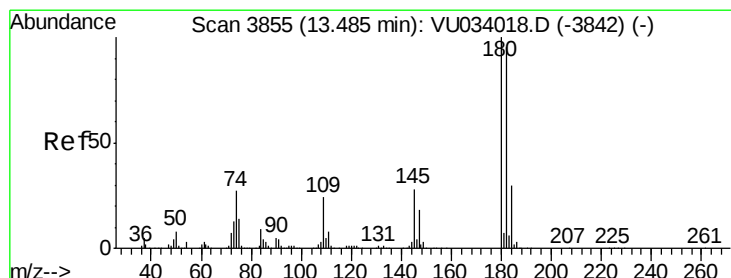
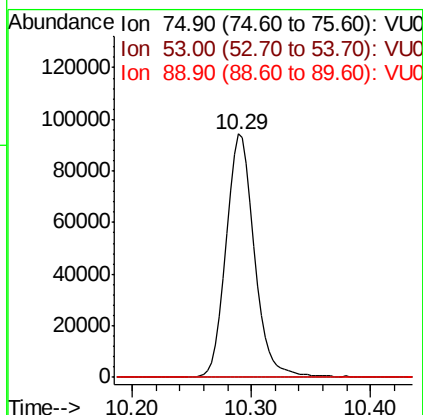
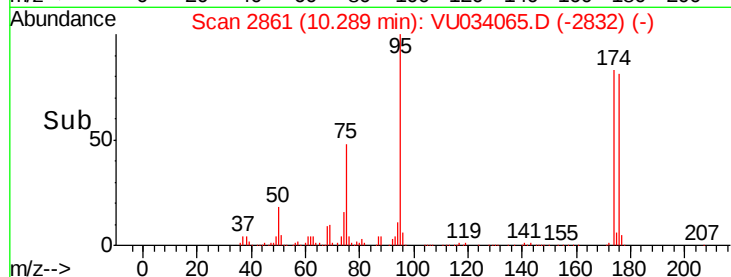
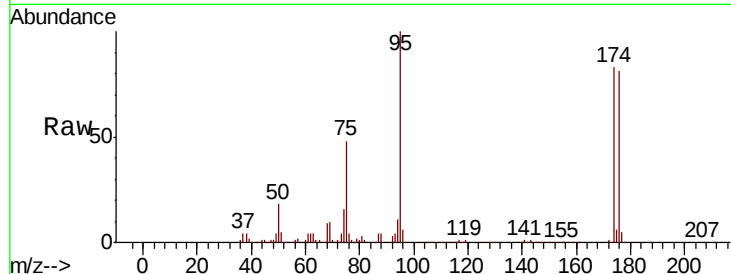




#81
trans-1,4-Dichloro-2-butene
Concen: 66.136 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.21 min
Lab File: VU034065.D
Acq: 29 Aug 2019 16:27

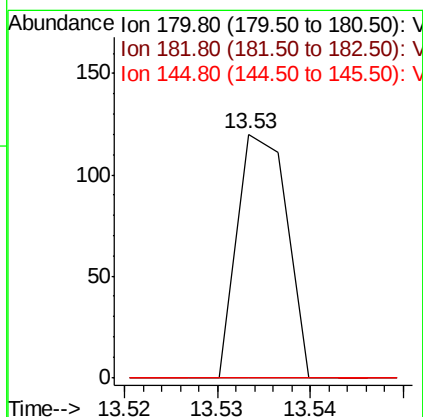
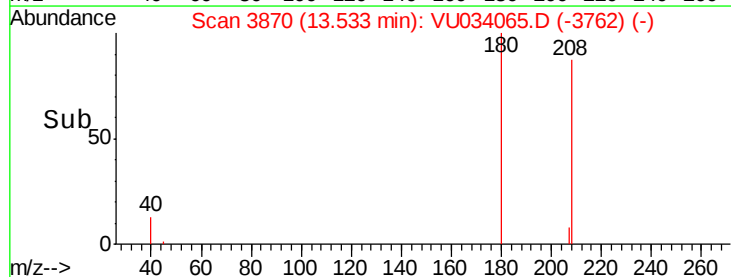
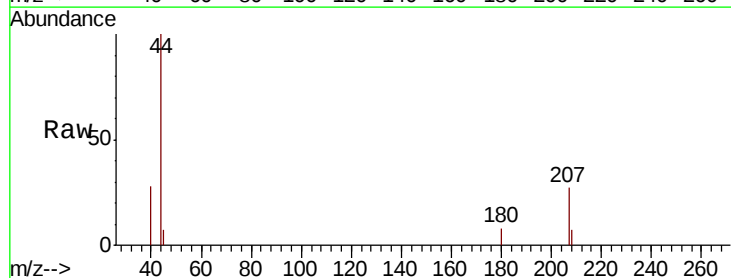
Instrument :
MSVOA_U
ClientSampleId :
EB-5-082819

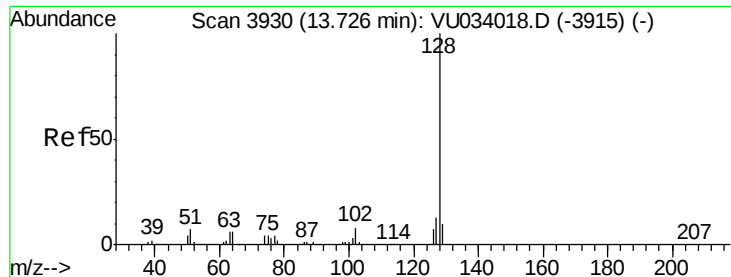
Tgt Ion: 75 Resp: 155439
Ion Ratio Lower Upper
75 100
53 0.2 0.0 0.0#
89 0.0 0.0 0.0



#93
1,2,4-Trichlorobenzene
Concen: 1.120 ug/l
RT: 13.53 min Scan# 3870
Delta R.T. 0.05 min
Lab File: VU034065.D
Acq: 29 Aug 2019 16:27

Tgt Ion: 180 Resp: 45
Ion Ratio Lower Upper
180 100
182 46.7 47.4 142.2#
145 0.0 14.1 42.3#





#95
 Naphthalene
 Concen: 1.802 ug/l
 RT: 13.78 min Scan# 3946
 Delta R.T. 0.05 min
 Lab File: VU034065.D
 Acq: 29 Aug 2019 16:27

Instrument :
 MSVOA_U
 ClientSampleId :
 EB-5-082819

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.4#
129	0.0	8.4	12.6#

