

Data File : VU034307.D
Acq On : 06 Sep 2019 00:27
Operator : JC/SP
Sample : K4579-24
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 41 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
PAR-12-A4-(3.5)

Quant Time: Sep 06 07:45:35 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	423218	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	653542	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	672034	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	334418	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	271220	42.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.72%	
35) Dibromofluoromethane	4.86	113	239488	39.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.76%	
50) Toluene-d8	7.55	98	945239	41.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.74%	
62) 4-Bromofluorobenzene	10.29	95	334036	37.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	75.74%	

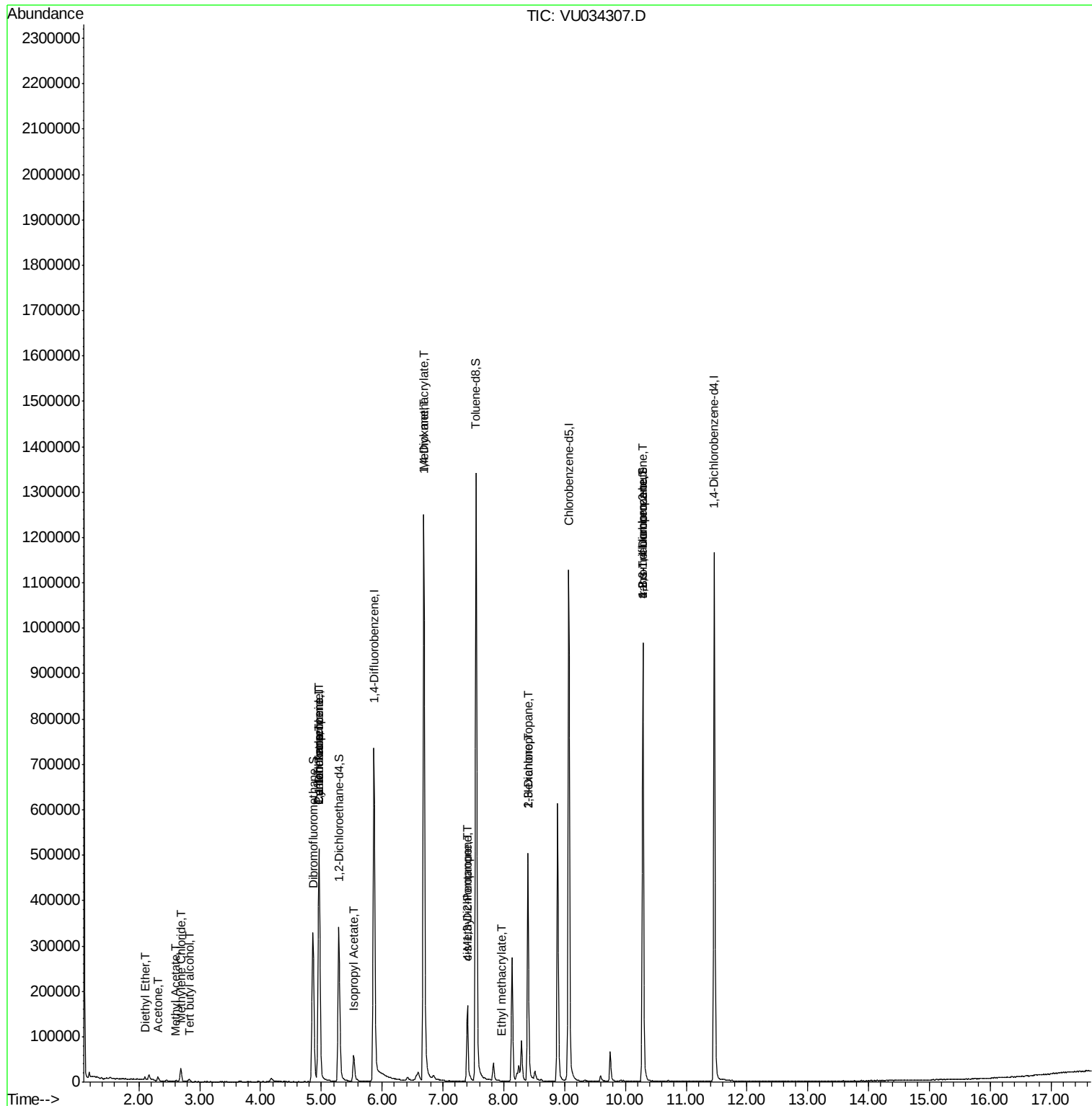
Target Compounds			Qvalue			
5) Bromomethane	1.63	94	598	Below Cal	#	77
6) Chloroethane	1.66	64	161	Below Cal	#	43
8) Diethyl Ether	2.10	74	1550	0.476	ug/l	86
11) Tert butyl alcohol	2.83	59	3466	2.562	ug/l #	73
16) Acetone	2.31	43	11353	3.426	ug/l	99
18) Methyl Acetate	2.61	43	2976	0.369	ug/l #	85
20) Methylene Chloride	2.69	84	13609	2.125	ug/l	96
31) Cyclohexane	4.96	56	7019	0.936	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	29432	4.153	ug/l #	48
38) Carbon Tetrachloride	4.96	117	37919	5.011	ug/l #	17
43) Isopropyl Acetate	5.53	43	69030	5.280	ug/l	99
48) Methyl methacrylate	6.69	41	110125	17.736	ug/l #	37
49) 1,4-Dioxane	6.68	88	44	0.325	ug/l #	22
51) 4-Methyl-2-Pentanone	7.40	43	56626	6.258	ug/l #	47
54) cis-1,3-Dichloropropene	7.40	75	32142	3.270	ug/l #	64
56) Ethyl methacrylate	7.98	69	109	3.087	ug/l #	28
57) 1,3-Dichloropropane	8.40	76	5565	0.525	ug/l #	43
59) 2-Hexanone	8.40	43	66221	9.796	ug/l #	53
76) 1,2,3-Trichloropropane	10.29	75	155740	21.335	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	155740	71.748	ug/l #	100

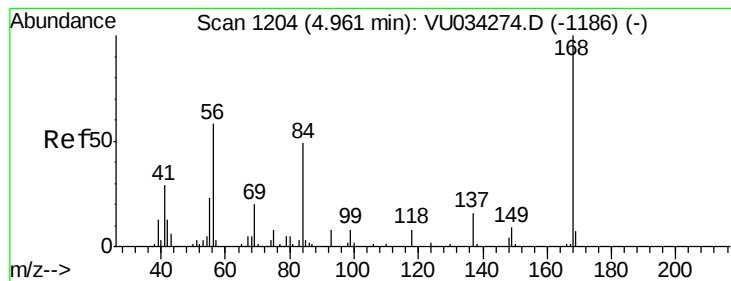
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VU034307.D
Acq On : 06 Sep 2019 00:27
Operator : JC/SP
Sample : K4579-24
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 41 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
PAR-12-A4-(3.5)

Quant Time: Sep 06 07:45:35 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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. 0.00 min

Lab File: VU034307.D

Acq: 06 Sep 2019 00:27

Instrument :

MSVOA_U

ClientSampleId :

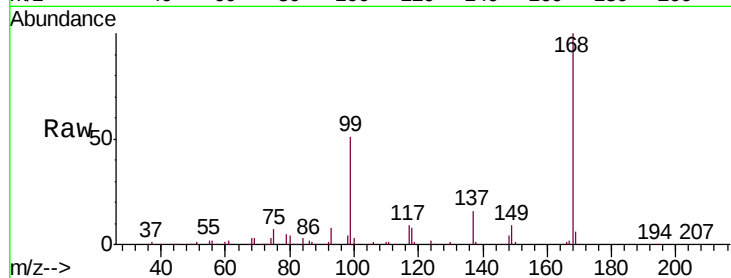
PAR-12-A4-(3.5)

Tgt Ion:168 Resp: 423218

Ion Ratio Lower Upper

168 100

99 51.0 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

200000

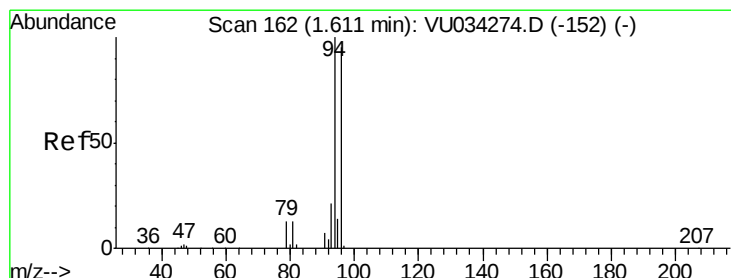
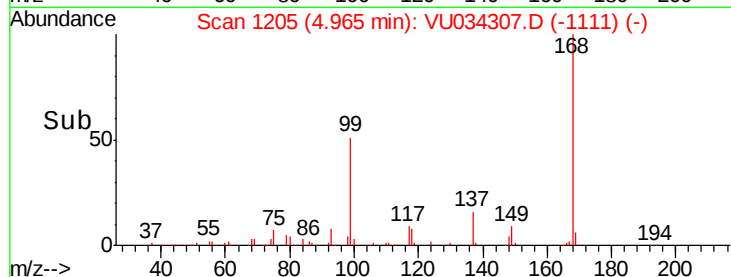
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 168

Delta R.T. 0.02 min

Lab File: VU034307.D

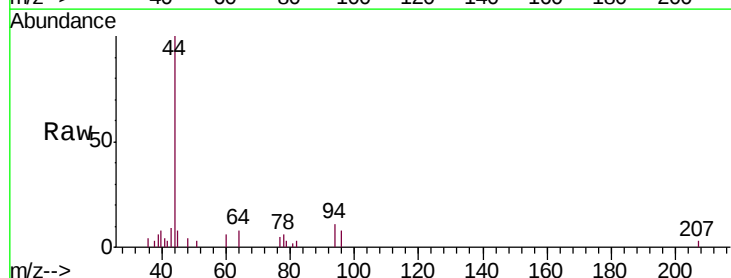
Acq: 06 Sep 2019 00:27

Tgt Ion: 94 Resp: 598

Ion Ratio Lower Upper

94 100

96 72.7 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

500

400

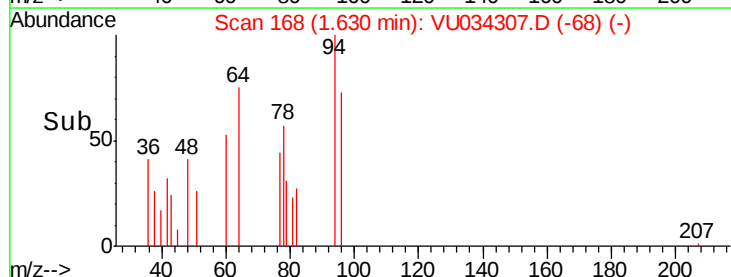
300

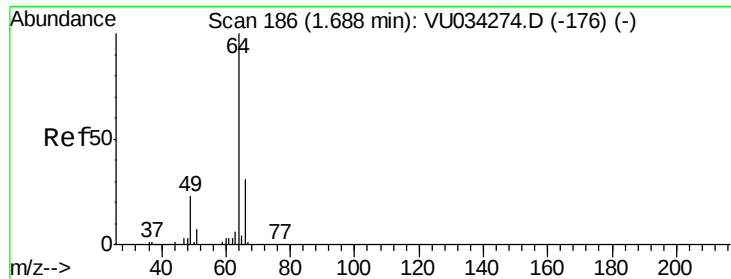
200

100

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.66 min Scan# 177

Delta R.T. -0.03 min

Lab File: VU034307.D

Acq: 06 Sep 2019 00:27

Instrument :

MSVOA_U

ClientSampleId :

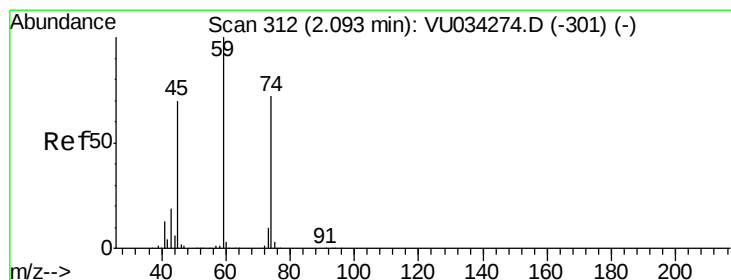
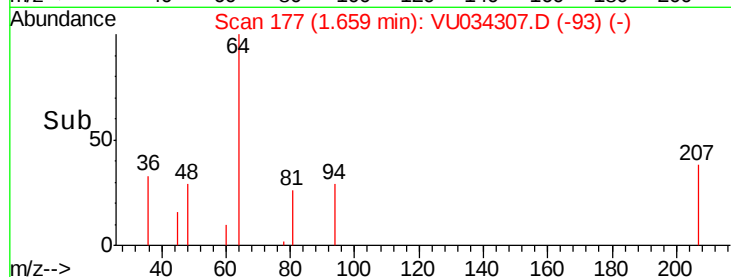
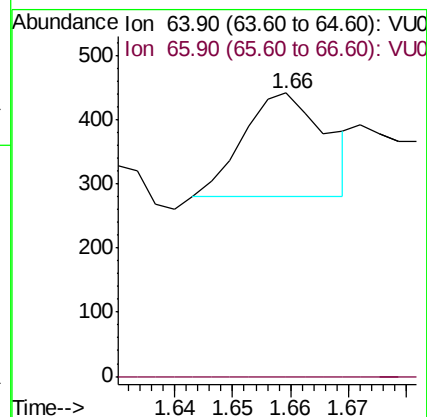
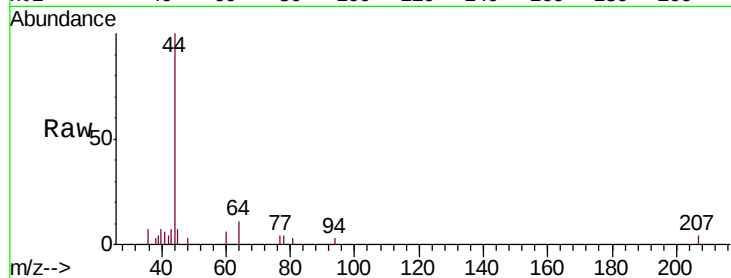
PAR-12-A4-(3.5)

Tgt Ion: 64 Resp: 161

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



#8

Diethyl Ether

Concen: 0.476 ug/l

RT: 2.10 min Scan# 313

Delta R.T. 0.00 min

Lab File: VU034307.D

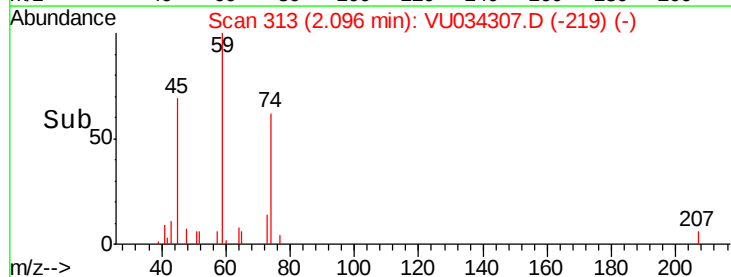
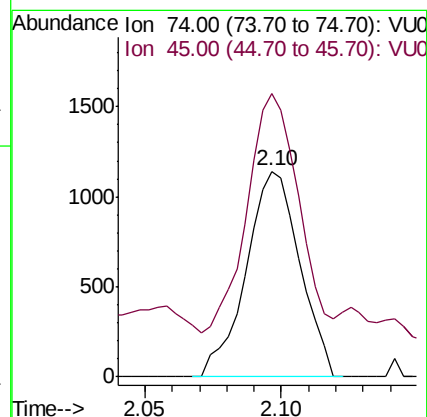
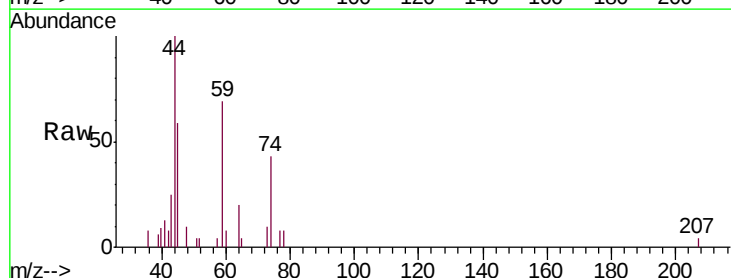
Acq: 06 Sep 2019 00:27

Tgt Ion: 74 Resp: 1550

Ion Ratio Lower Upper

74 100

45 109.9 48.2 144.6





#11

Tert butyl alcohol

Concen: 2.562 ug/l

RT: 2.83 min Scan# 540

Delta R.T. 0.01 min

Lab File: VU034307.D

Acq: 06 Sep 2019 00:27

Instrument :

MSVOA_U

ClientSampleId :

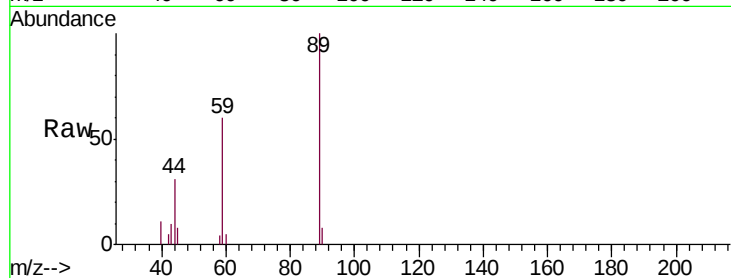
PAR-12-A4-(3.5)

Tgt Ion: 59 Resp: 3466

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VU034307.D (-519) (-)

Ion 57.00 (56.70 to 57.70): VU034307.D (-519) (-)

2.83

1500

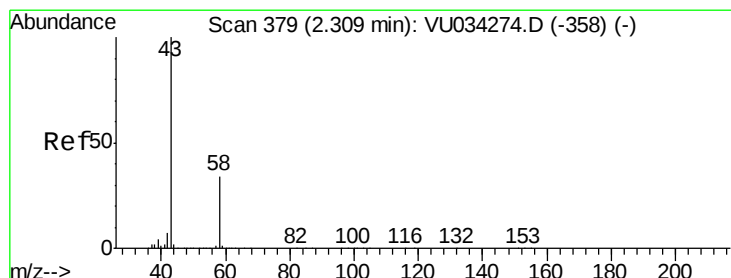
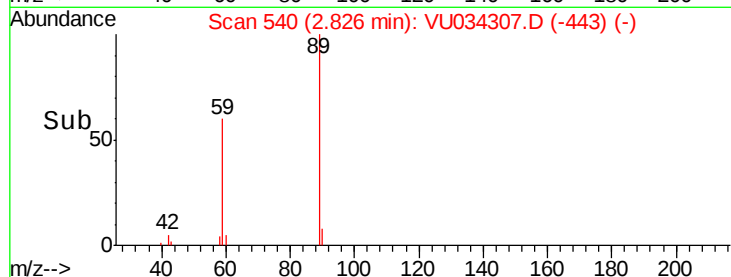
1000

500

0

2.75 2.80 2.85

Time-->



#16

Acetone

Concen: 3.426 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034307.D

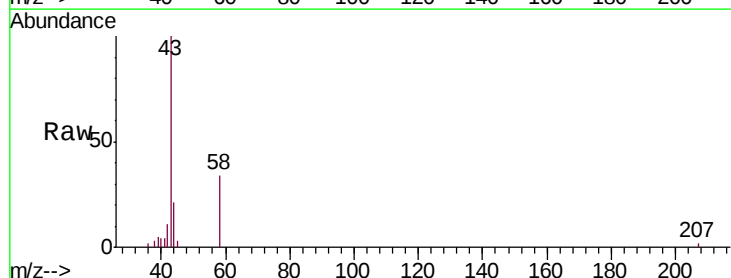
Acq: 06 Sep 2019 00:27

Tgt Ion: 43 Resp: 11353

Ion Ratio Lower Upper

43 100

58 35.3 27.6 41.4



Abundance Ion 43.00 (42.70 to 43.70): VU034307.D (-358) (-)

Ion 58.00 (57.70 to 58.70): VU034307.D (-358) (-)

2.31

6000

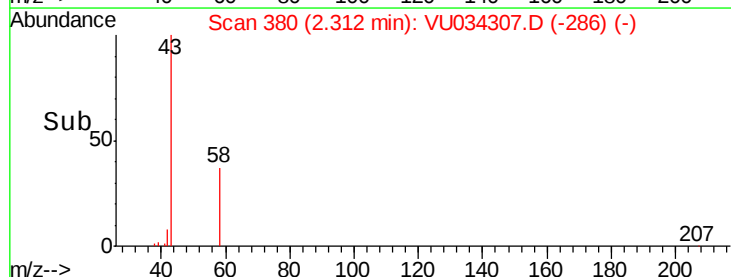
4000

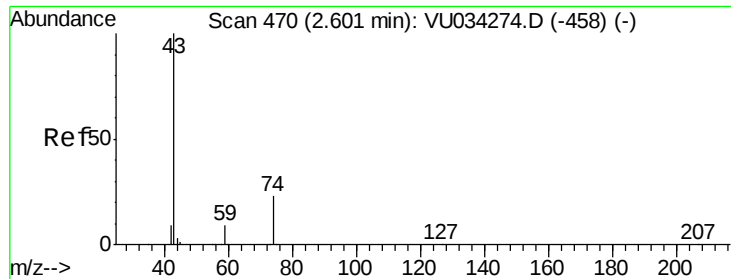
2000

0

2.25 2.30 2.35 2.40

Time-->

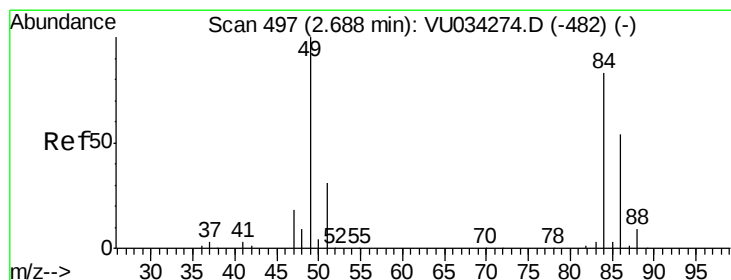
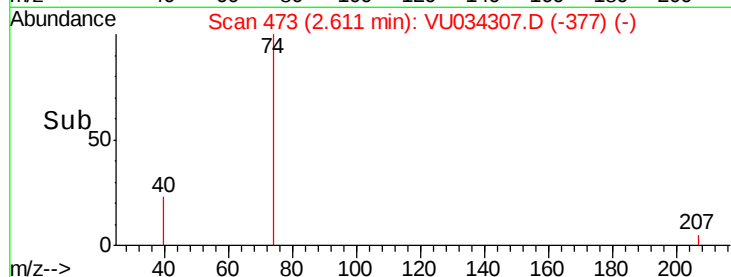
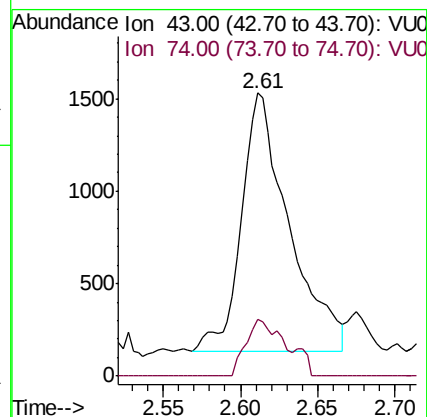
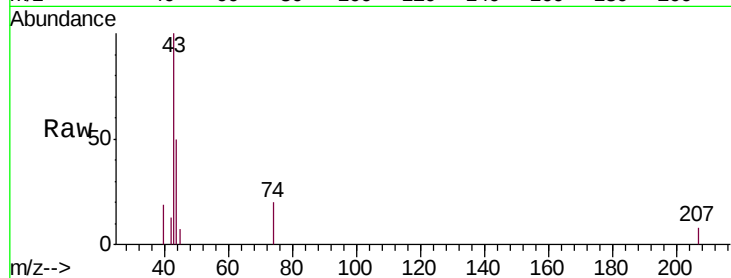




#18
Methyl Acetate
Concen: 0.369 ug/l
RT: 2.61 min Scan# 473
Delta R.T. 0.01 min
Lab File: VU034307.D
Acq: 06 Sep 2019 00:27

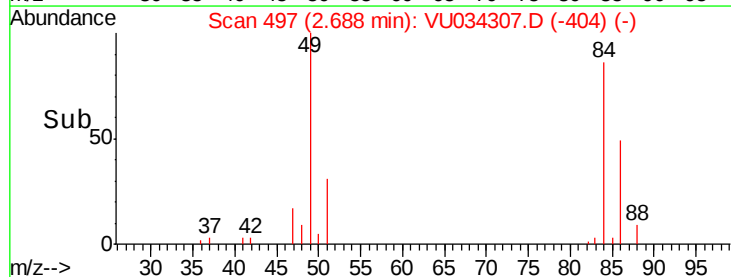
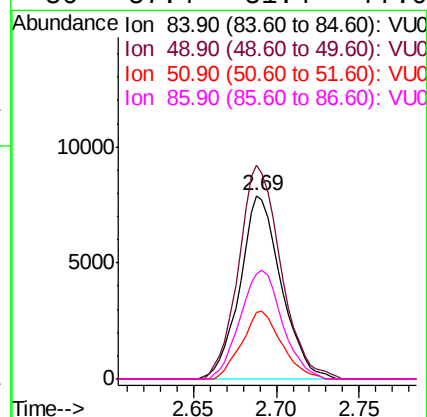
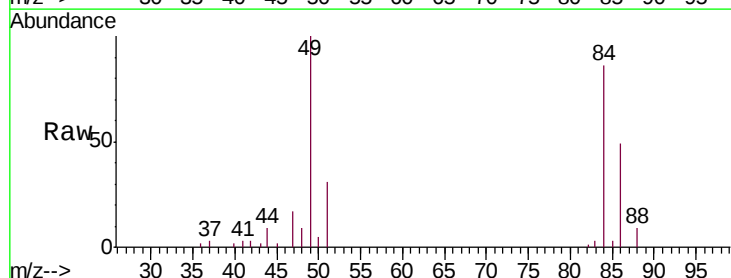
Instrument :
MSVOA_U
ClientSampleId :
PAR-12-A4-(3.5)

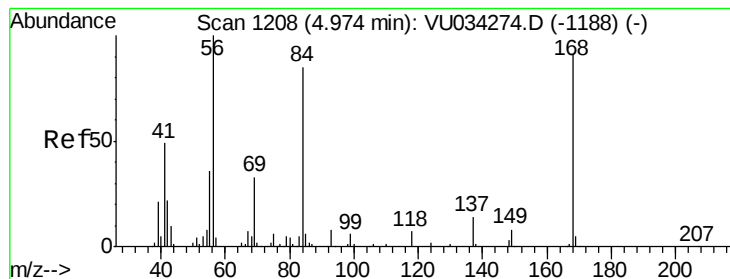
Tgt Ion: 43 Resp: 2976
Ion Ratio Lower Upper
43 100
74 16.1 18.9 28.3#



#20
Methylene Chloride
Concen: 2.125 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU034307.D
Acq: 06 Sep 2019 00:27

Tgt Ion: 84 Resp: 13609
Ion Ratio Lower Upper
84 100
49 116.7 96.0 144.0
51 36.5 30.0 45.0
86 57.4 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: VU034307.D

Acq: 06 Sep 2019 00:27

Instrument :

MSVOA_U

ClientSampleId :

PAR-12-A4-(3.5)

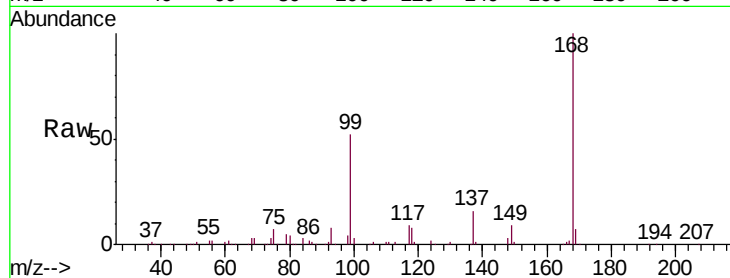
Tgt Ion: 56 Resp: 7019

Ion Ratio Lower Upper

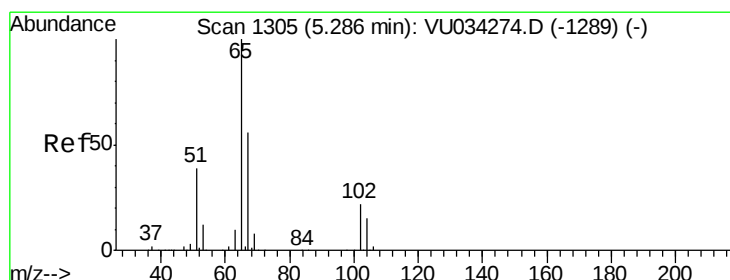
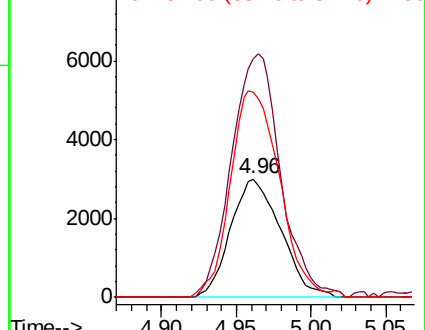
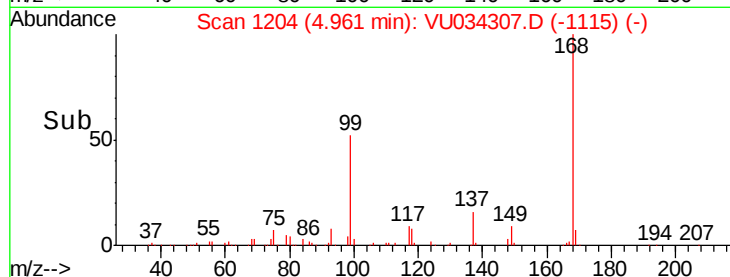
56 100

69 201.1 26.7 40.1#

84 173.5 68.2 102.4#



Abundance Ion 56.00 (55.70 to 56.70): VU034307.D (-1115) (-)



#33

1,2-Dichloroethane-d4

Concen: 42.355 ug/l

RT: 5.29 min Scan# 1305

Delta R.T. 0.00 min

Lab File: VU034307.D

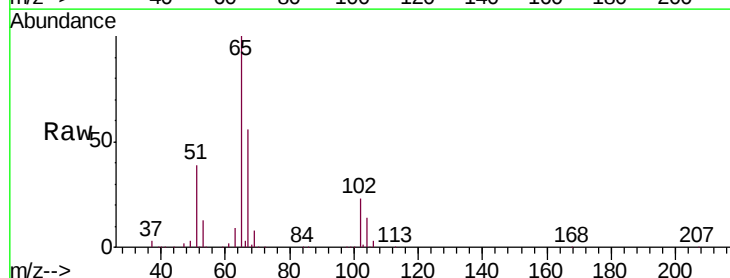
Acq: 06 Sep 2019 00:27

Tgt Ion: 65 Resp: 271220

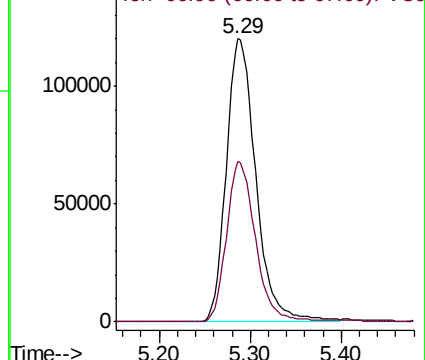
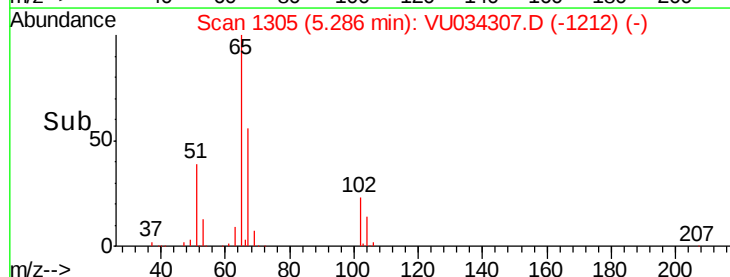
Ion Ratio Lower Upper

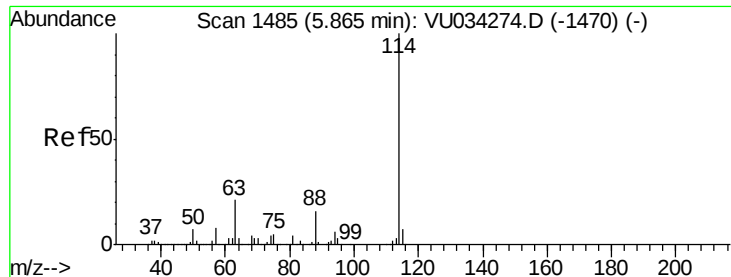
65 100

67 55.4 0.0 112.4



Abundance Ion 64.90 (64.60 to 65.60): VU034307.D (-1212) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.87 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VU034307.D

Acq: 06 Sep 2019 00:27

Instrument :

MSVOA_U

ClientSampleId :

PAR-12-A4-(3.5)

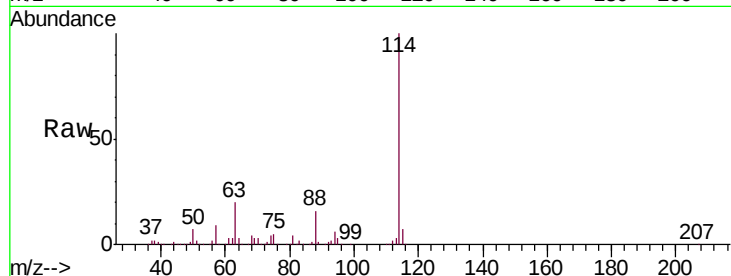
Tgt Ion:114 Resp: 653542

Ion Ratio Lower Upper

114 100

63 19.9 0.0 42.4

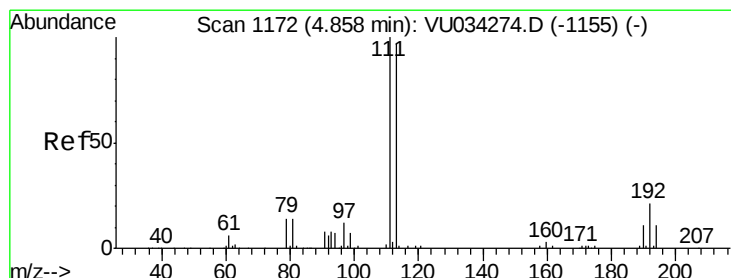
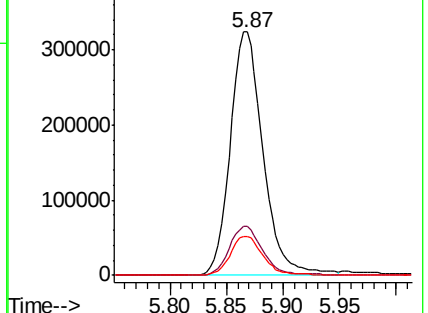
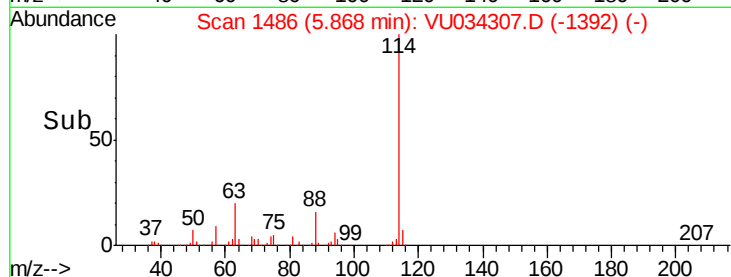
88 16.1 0.0 32.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0



#35

Dibromofluoromethane

Concen: 39.382 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034307.D

Acq: 06 Sep 2019 00:27

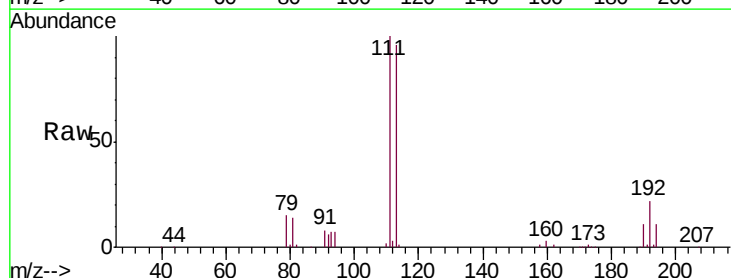
Tgt Ion:113 Resp: 239488

Ion Ratio Lower Upper

113 100

111 101.5 81.5 122.3

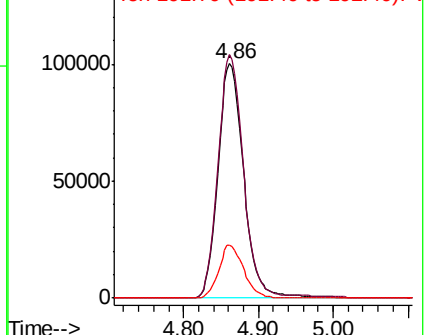
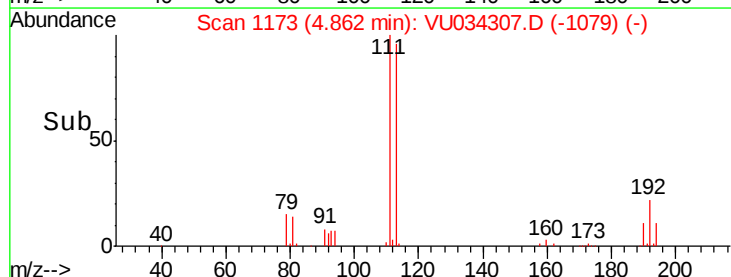
192 21.9 17.8 26.8

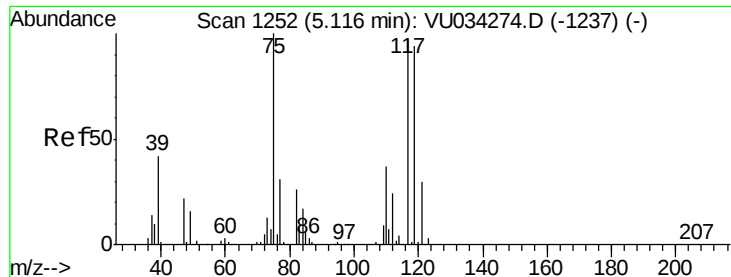


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

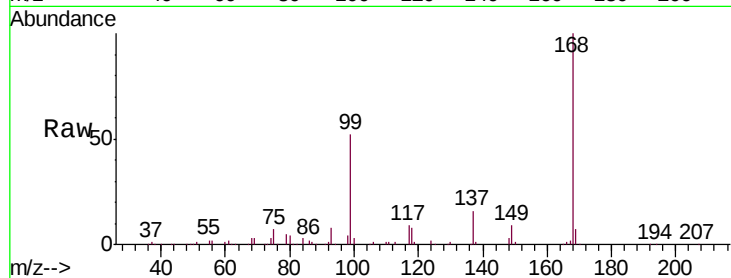




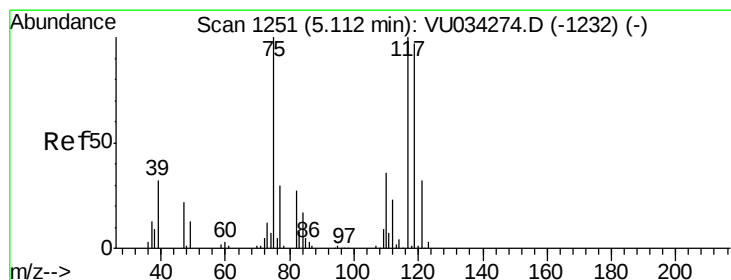
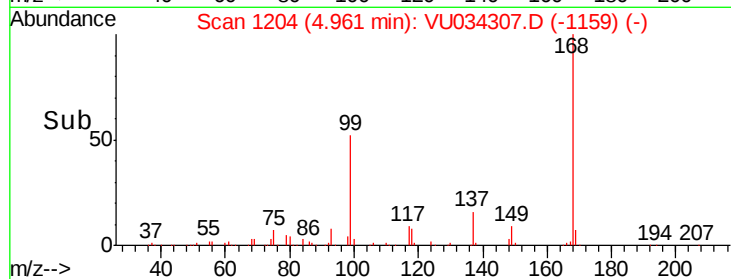
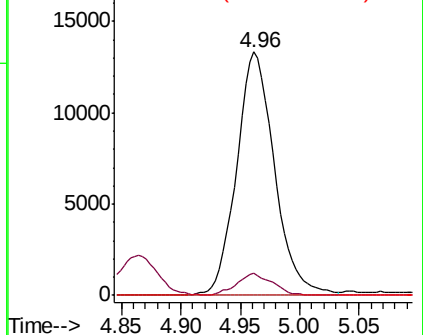
#36
 1,1-Dichloropropene
 Concen: 4.153 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034307.D
 Acq: 06 Sep 2019 00:27

Instrument :
 MSVOA_U
 ClientSampleId :
 PAR-12-A4-(3.5)

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.5	18.3	54.9#
77	0.0	24.9	37.3#

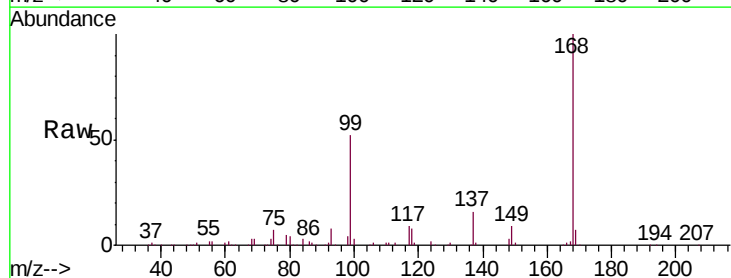


Abundance Ion 74.90 (74.60 to 75.60): VU034307.D (-1159) (-)
 Ion 109.90 (109.60 to 110.60): VU034307.D (-1159) (-)
 Ion 76.90 (76.60 to 77.60): VU034307.D (-1159) (-)

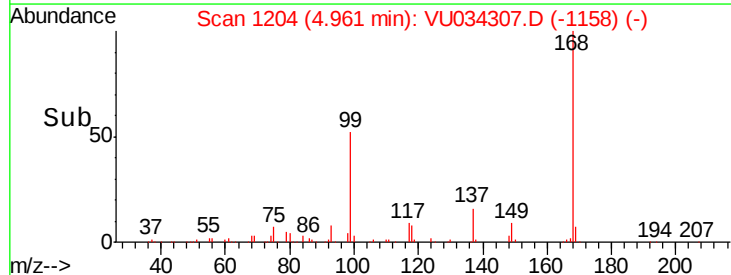
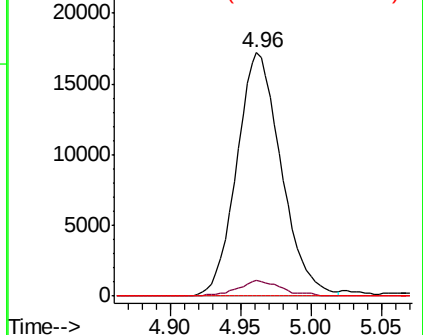


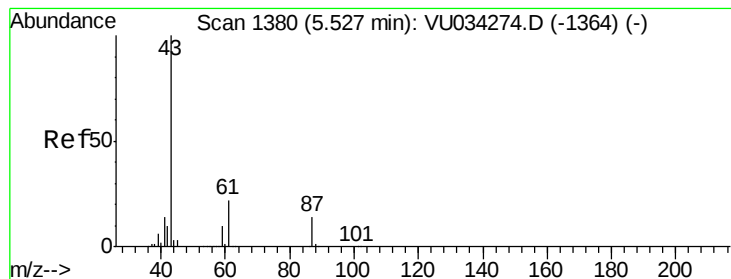
#38
 Carbon Tetrachloride
 Concen: 5.011 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034307.D
 Acq: 06 Sep 2019 00:27

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.6	77.8	116.6#
121	0.0	25.2	37.8#



Abundance Ion 116.80 (116.50 to 117.50): VU034307.D (-1158) (-)
 Ion 118.80 (118.50 to 119.50): VU034307.D (-1158) (-)
 Ion 120.80 (120.50 to 121.50): VU034307.D (-1158) (-)





#43

Isopropyl Acetate

Concen: 5.280 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034307.D

Acq: 06 Sep 2019 00:27

Instrument :

MSVOA_U

ClientSampleId :

PAR-12-A4-(3.5)

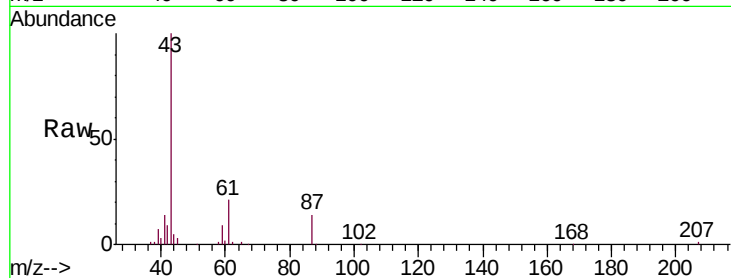
Tgt Ion: 43 Resp: 69030

Ion Ratio Lower Upper

43 100

61 22.3 17.1 25.7

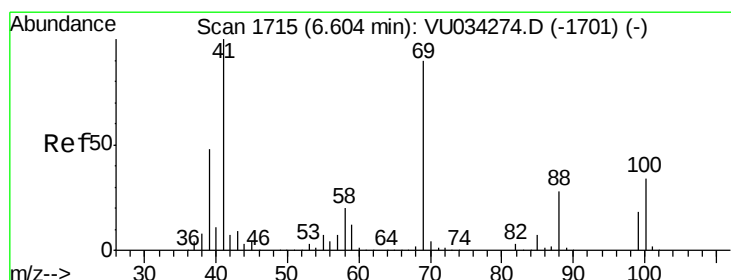
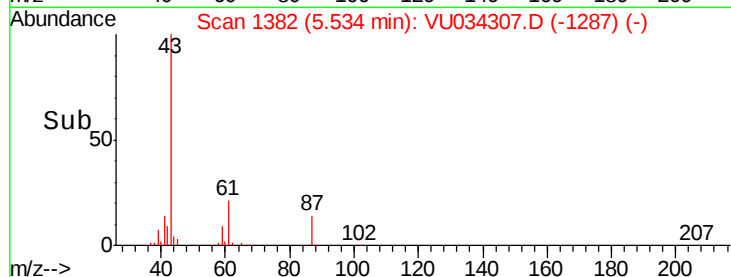
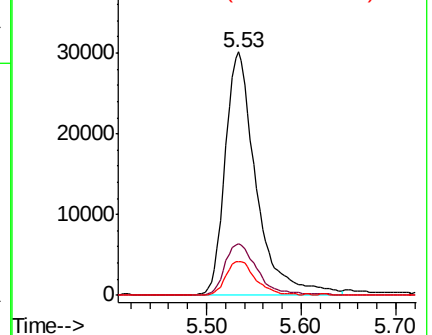
87 13.6 11.1 16.7



Abundance Ion 43.00 (42.70 to 43.70): VU034307.D (-1287) (-)

Ion 61.00 (60.70 to 61.70): VU034307.D (-1287) (-)

Ion 87.00 (86.70 to 87.70): VU034307.D (-1287) (-)



#48

Methyl methacrylate

Concen: 17.736 ug/l

RT: 6.69 min Scan# 1741

Delta R.T. 0.08 min

Lab File: VU034307.D

Acq: 06 Sep 2019 00:27

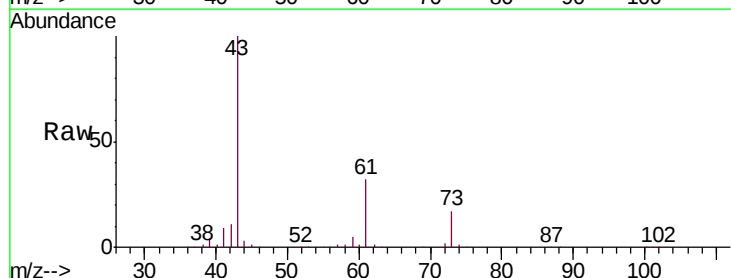
Tgt Ion: 41 Resp: 110125

Ion Ratio Lower Upper

41 100

69 0.2 72.8 109.2#

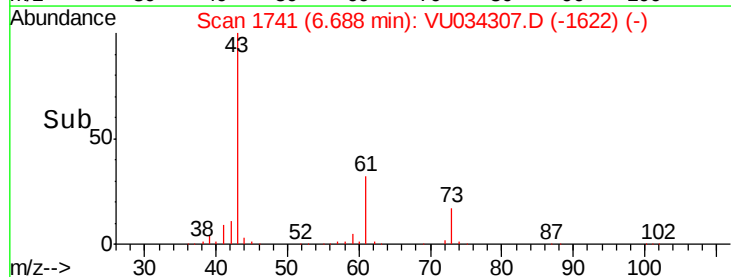
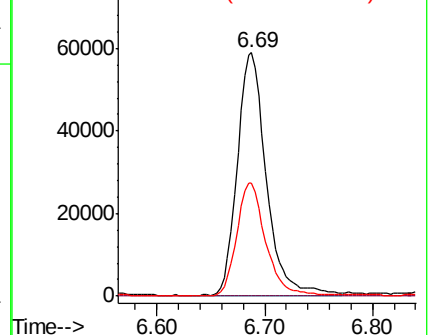
39 47.2 38.6 58.0

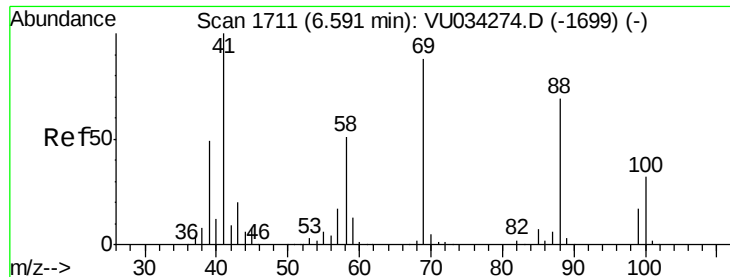


Abundance Ion 41.00 (40.70 to 41.70): VU034307.D (-1622) (-)

Ion 69.00 (68.70 to 69.70): VU034307.D (-1622) (-)

Ion 39.00 (38.70 to 39.70): VU034307.D (-1622) (-)

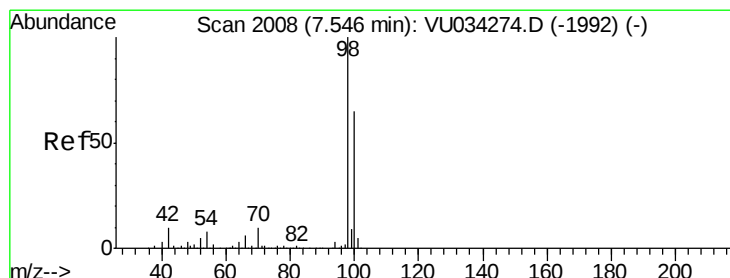
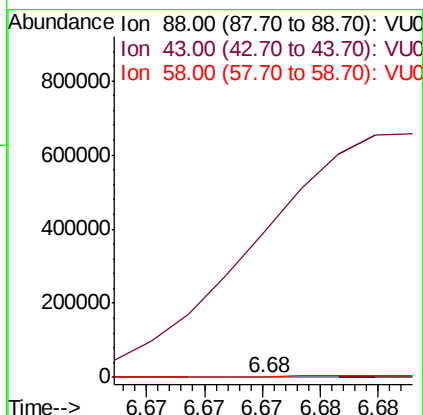
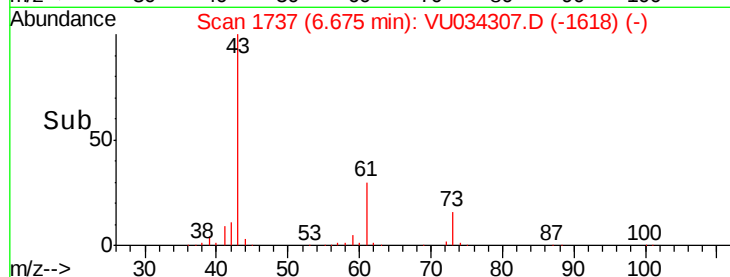
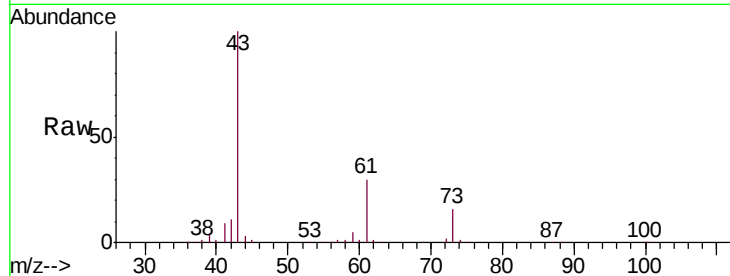




#49
1,4-Dioxane
Concen: 0.325 ug/l
RT: 6.68 min Scan# 1737
Delta R.T. 0.08 min
Lab File: VU034307.D
Acq: 06 Sep 2019 00:27

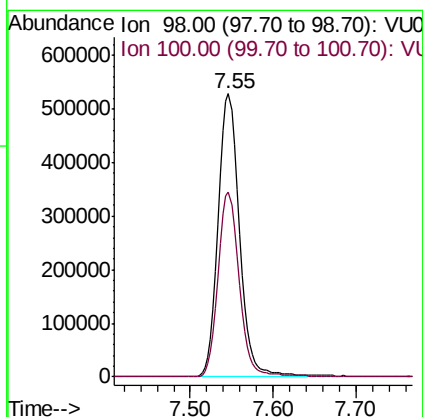
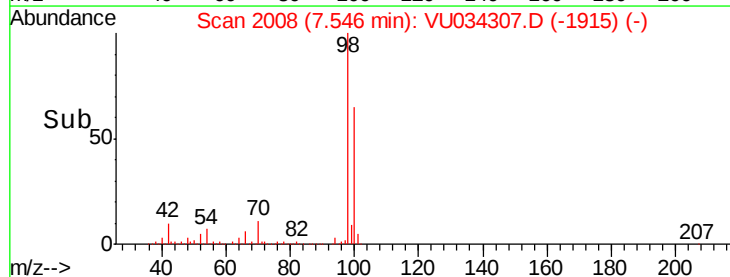
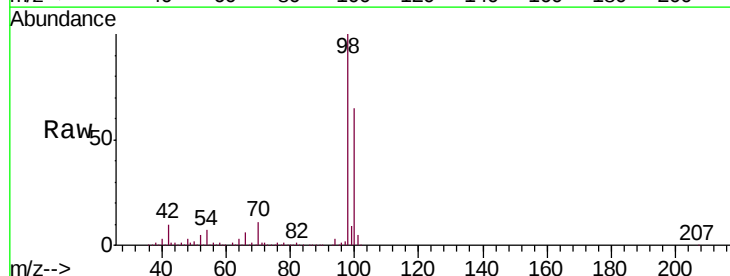
Instrument :
MSVOA_U
ClientSampleId :
PAR-12-A4-(3.5)

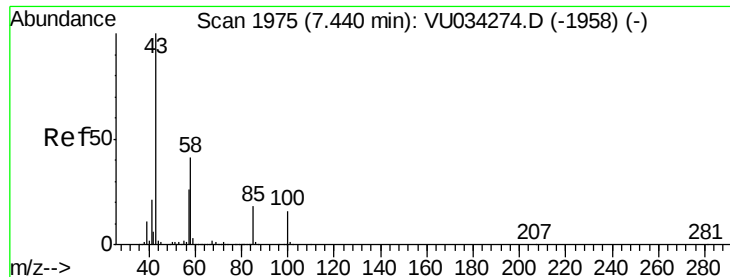
Tgt Ion: 88 Resp: 44
Ion Ratio Lower Upper
88 100
43 0.0 23.8 35.6#
58 0.0 58.4 87.6#



#50
Toluene-d8
Concen: 41.372 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034307.D
Acq: 06 Sep 2019 00:27

Tgt Ion: 98 Resp: 945239
Ion Ratio Lower Upper
98 100
100 64.4 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 6.258 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034307.D

Acq: 06 Sep 2019 00:27

Instrument :

MSVOA_U

ClientSampleId :

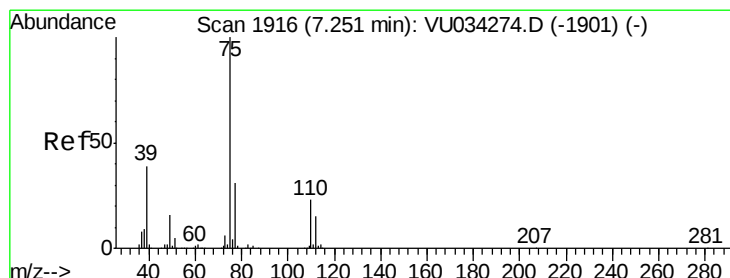
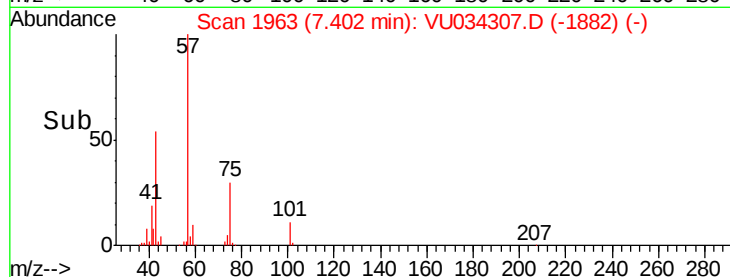
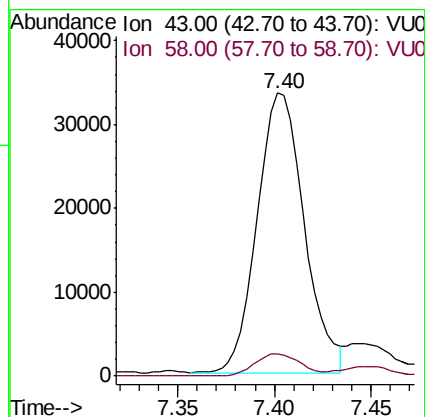
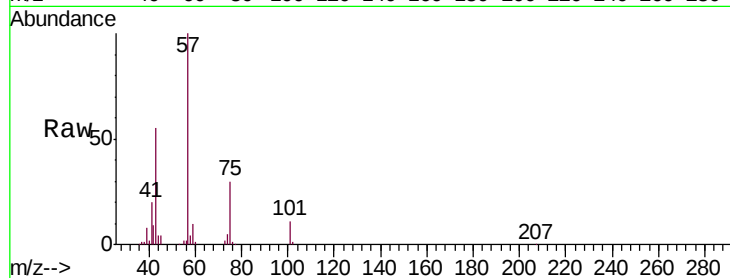
PAR-12-A4-(3.5)

Tgt Ion: 43 Resp: 56626

Ion Ratio Lower Upper

43 100

58 7.8 33.0 49.4#



#54

cis-1,3-Dichloropropene

Concen: 3.270 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. 0.15 min

Lab File: VU034307.D

Acq: 06 Sep 2019 00:27

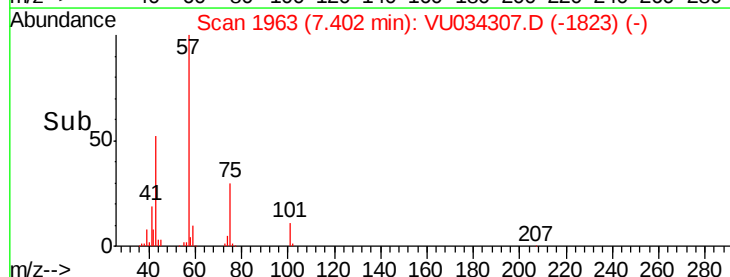
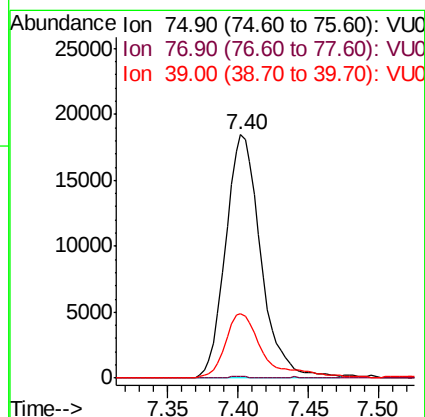
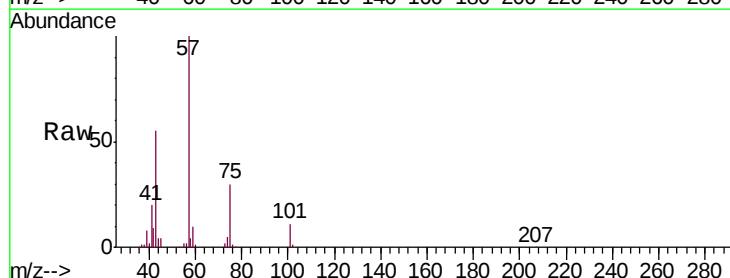
Tgt Ion: 75 Resp: 32142

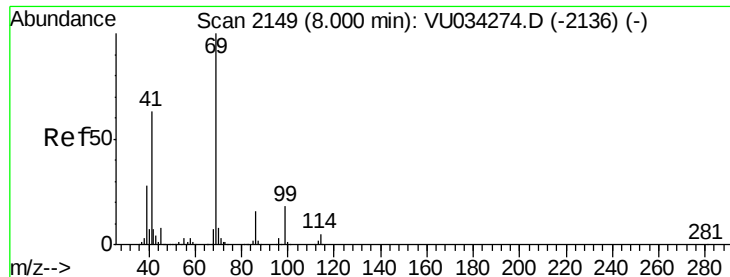
Ion Ratio Lower Upper

75 100

77 0.8 25.1 37.7#

39 26.6 31.2 46.8#





#56

Ethyl methacrylate

Concen: 3.087 ug/l

RT: 7.98 min Scan# 2142

Delta R.T. -0.02 min

Lab File: VU034307.D

Acq: 06 Sep 2019 00:27

Instrument :

MSVOA_U

ClientSampleId :

PAR-12-A4-(3.5)

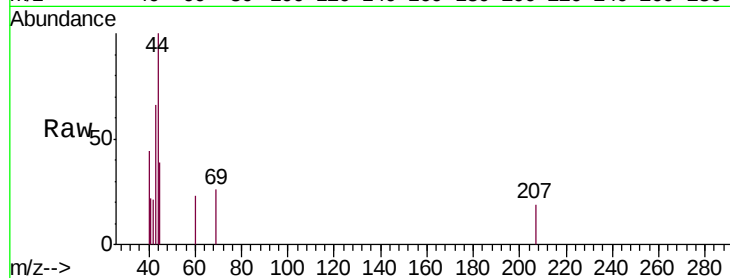
Tgt Ion: 69 Resp: 109

Ion Ratio Lower Upper

69 100

41 0.0 49.5 74.3#

39 0.0 22.5 33.7#



Abundance Ion 69.00 (68.70 to 69.70): VU034307.D (-2055) (-)

Ion 41.00 (40.70 to 41.70): VU034307.D (-2055) (-)

Ion 39.00 (38.70 to 39.70): VU034307.D (-2055) (-)

7.98

150

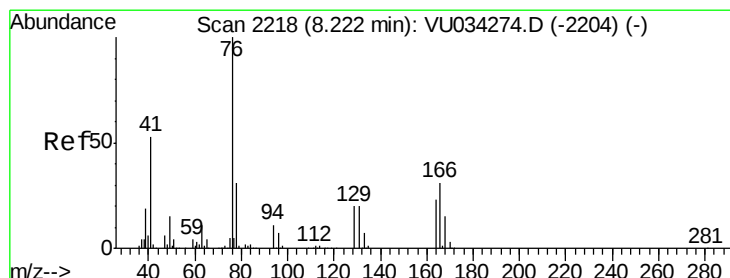
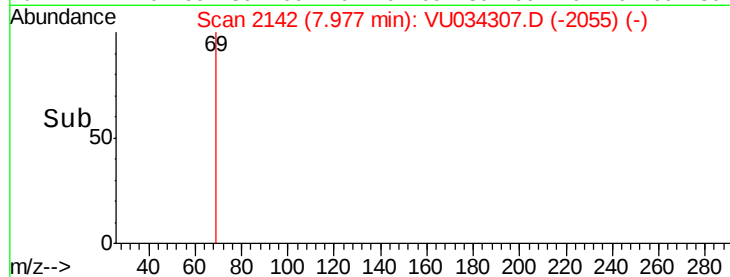
100

50

0

7.96 7.97 7.98 7.99

Time-->



#57

1,3-Dichloropropane

Concen: 0.525 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.18 min

Lab File: VU034307.D

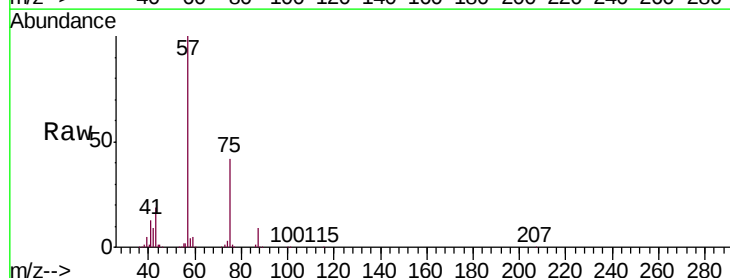
Acq: 06 Sep 2019 00:27

Tgt Ion: 76 Resp: 5565

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VU034307.D (-2125) (-)

Ion 77.90 (77.60 to 78.60): VU034307.D (-2125) (-)

8.40

3000

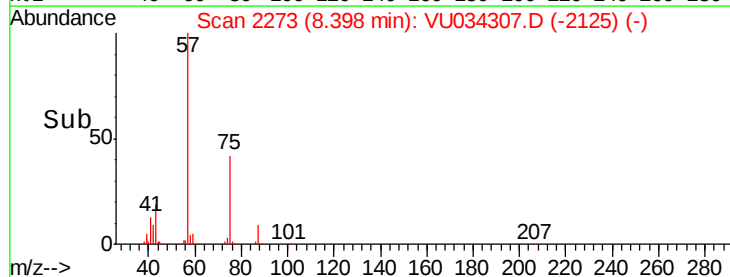
2000

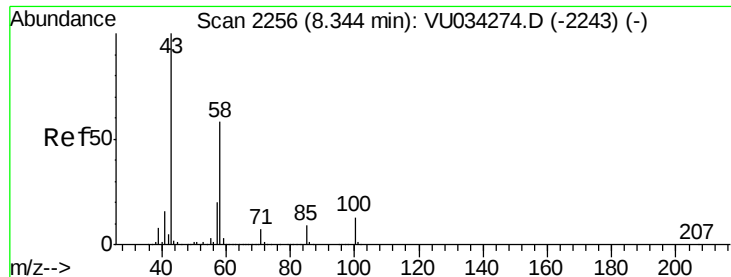
1000

0

8.35 8.40 8.45

Time-->

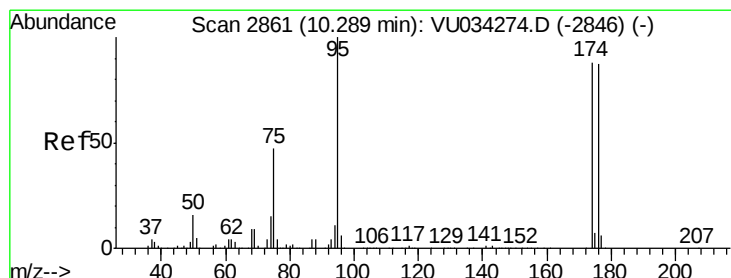
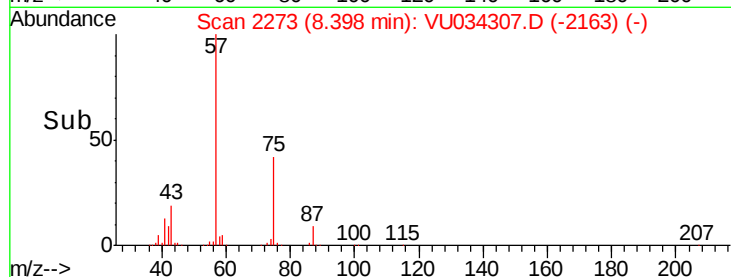
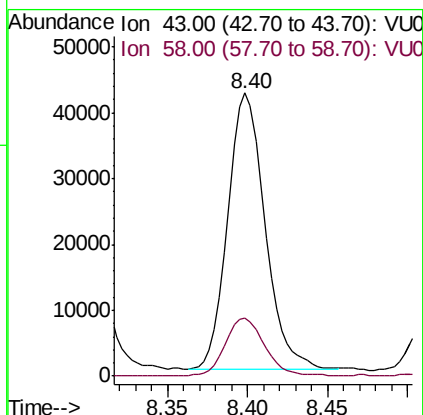
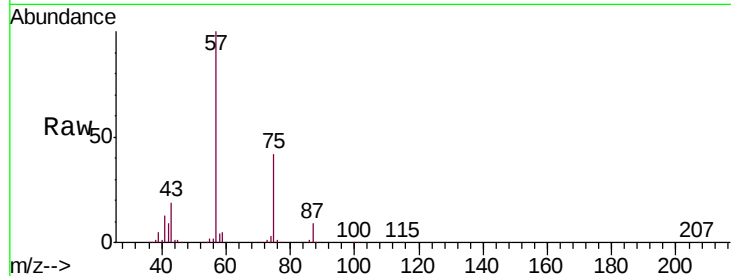




#59
 2-Hexanone
 Concen: 9.796 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.05 min
 Lab File: VU034307.D
 Acq: 06 Sep 2019 00:27

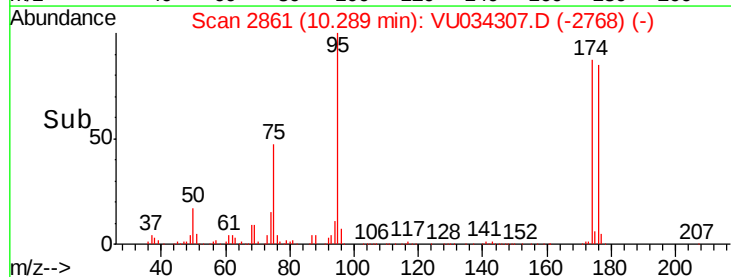
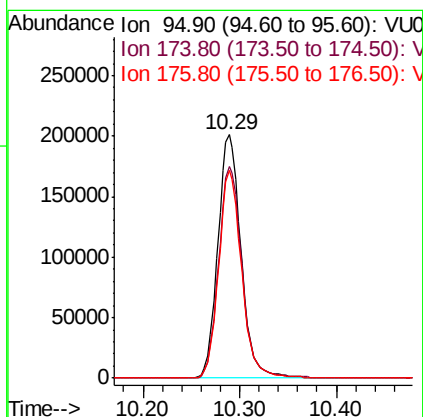
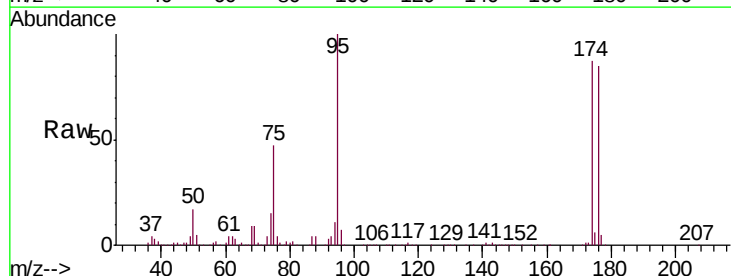
Instrument :
 MSVOA_U
 ClientSampleId :
 PAR-12-A4-(3.5)

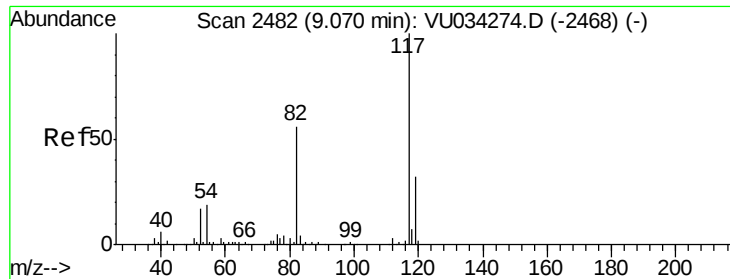
Tgt Ion: 43 Resp: 66221
 Ion Ratio Lower Upper
 43 100
 58 22.7 28.8 86.5#



#62
 4-Bromofluorobenzene
 Concen: 37.867 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. 0.00 min
 Lab File: VU034307.D
 Acq: 06 Sep 2019 00:27

Tgt Ion: 95 Resp: 334036
 Ion Ratio Lower Upper
 95 100
 174 88.1 0.0 175.2
 176 84.7 0.0 168.0

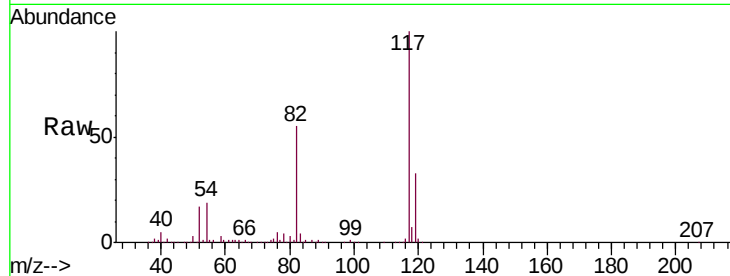




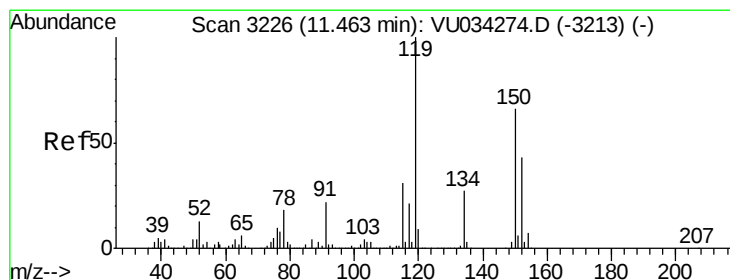
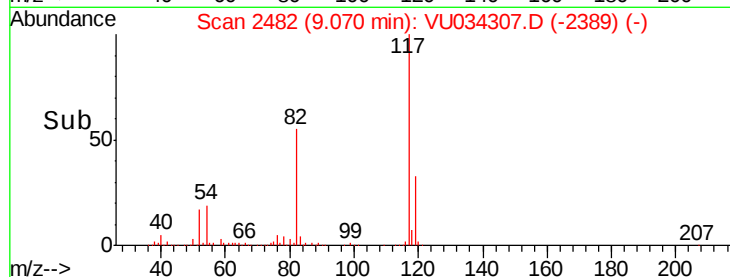
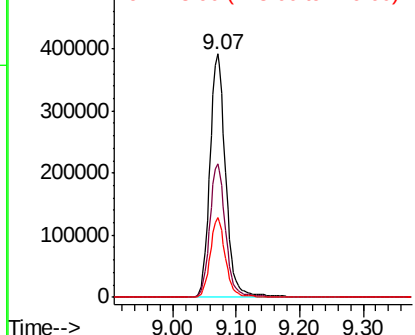
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034307.D
Acq: 06 Sep 2019 00:27

Instrument :
MSVOA_U
ClientSampleId :
PAR-12-A4-(3.5)

Tgt Ion:117 Resp: 672034
Ion Ratio Lower Upper
117 100
82 54.8 44.6 67.0
119 32.6 25.9 38.9

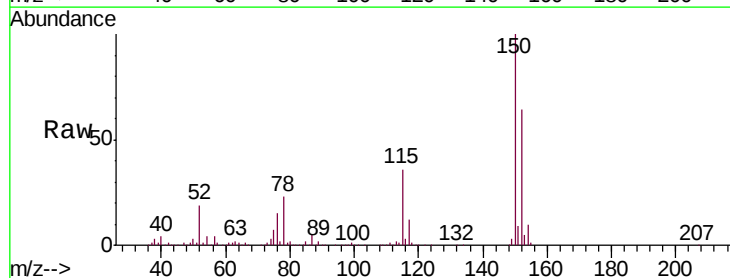


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

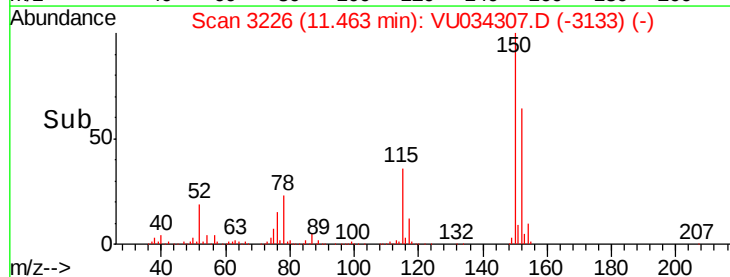
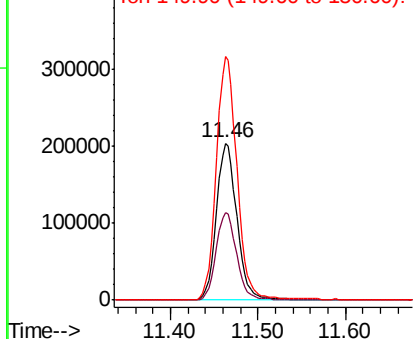


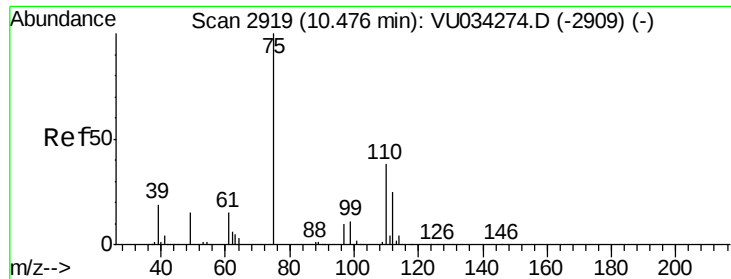
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. 0.00 min
Lab File: VU034307.D
Acq: 06 Sep 2019 00:27

Tgt Ion:152 Resp: 334418
Ion Ratio Lower Upper
152 100
115 55.7 39.1 117.3
150 156.4 0.0 345.4



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





#76

1,2,3-Trichloropropane

Concen: 21.335 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034307.D

Acq: 06 Sep 2019 00:27

Instrument :

MSVOA_U

ClientSampleId :

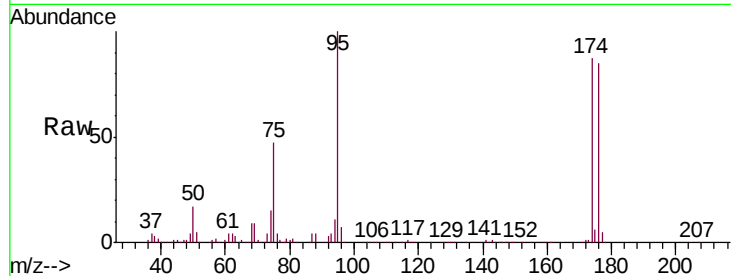
PAR-12-A4-(3.5)

Tgt Ion: 75 Resp: 155740

Ion Ratio Lower Upper

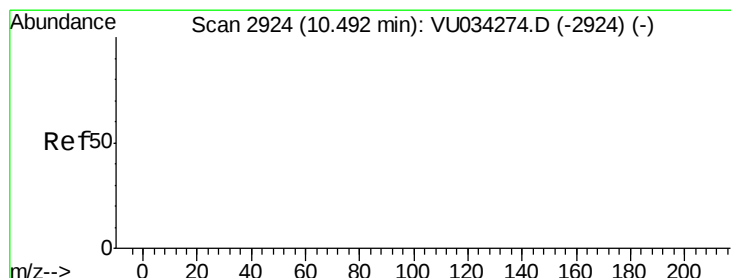
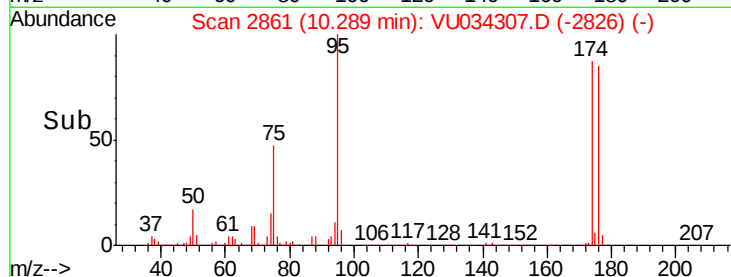
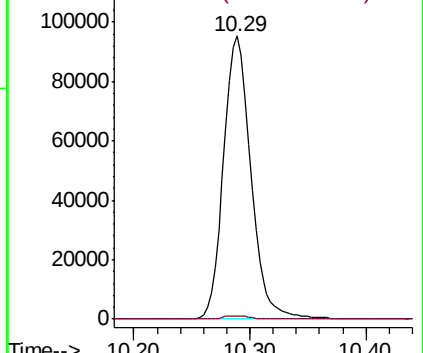
75 100

77 1.1 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: 71.748 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.20 min

Lab File: VU034307.D

Acq: 06 Sep 2019 00:27

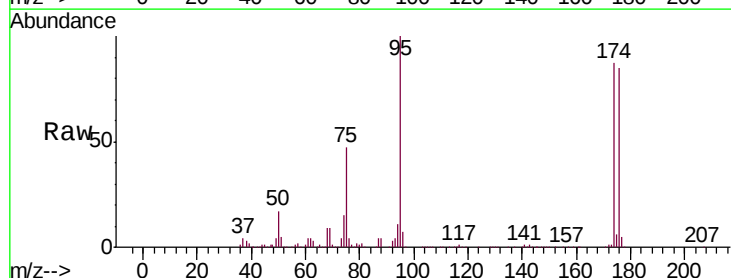
Tgt Ion: 75 Resp: 155740

Ion Ratio Lower Upper

75 100

53 0.1 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

