

Data File : VU034306.D
Acq On : 06 Sep 2019 00:04
Operator : JC/SP
Sample : K4579-23
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
PAR-12-A3-(3.5)

Quant Time: Sep 06 07:45:14 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	428142	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	682576	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	677953	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	341687	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	280887	43.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.72%	
35) Dibromofluoromethane	4.86	113	244197	38.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	76.90%	
50) Toluene-d8	7.55	98	976322	40.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	81.82%	
62) 4-Bromofluorobenzene	10.29	95	338897	36.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	73.56%	

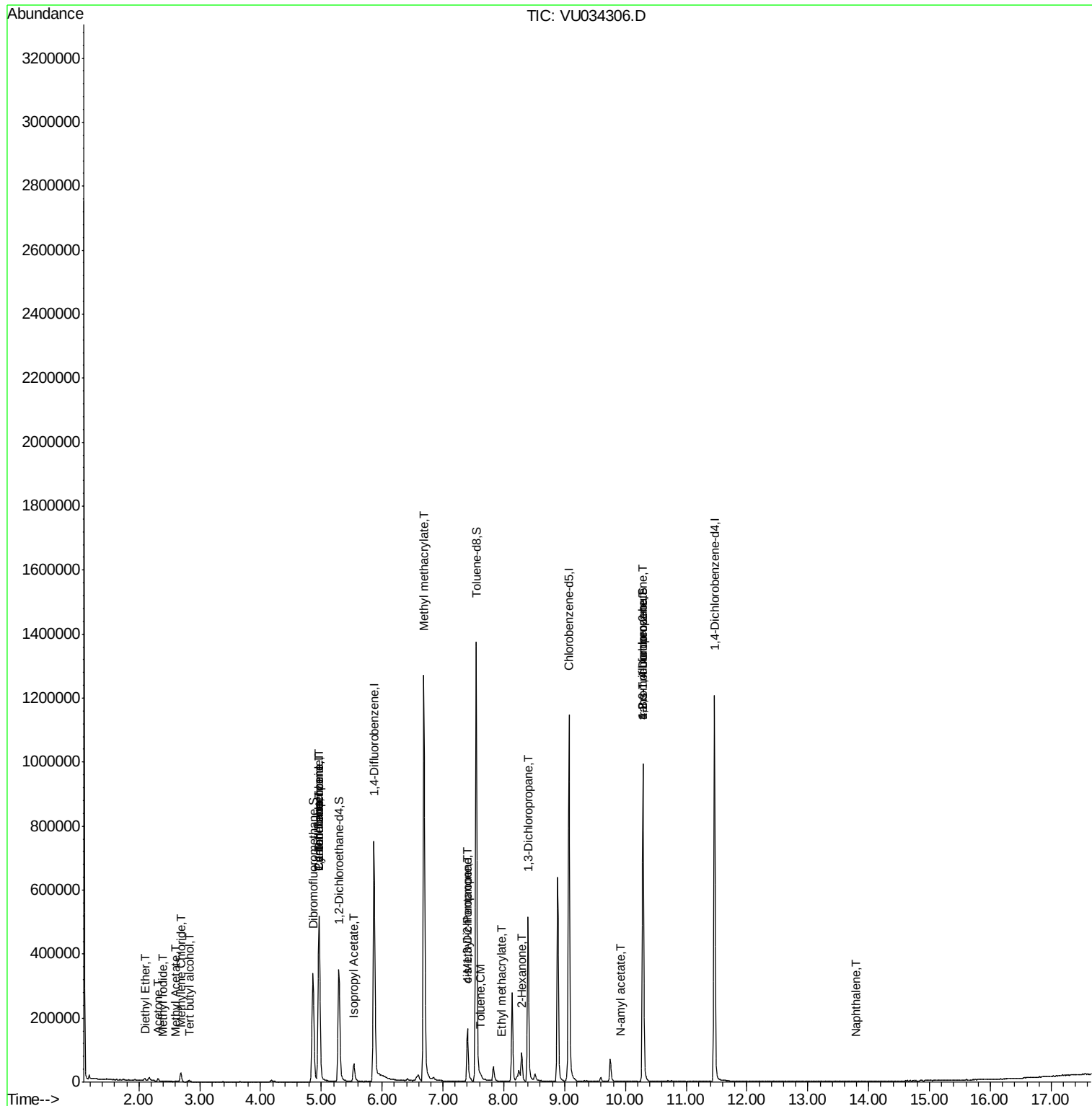
Target Compounds				Qvalue		
5) Bromomethane	1.63	94	490	Below Cal		89
6) Chloroethane	1.67	64	66	Below Cal	#	43
8) Diethyl Ether	2.10	74	1890	0.574	ug/l	82
10) Methyl Iodide	2.41	142	126	3.872	ug/l #	43
11) Tert butyl alcohol	2.83	59	2154	1.574	ug/l #	73
16) Acetone	2.32	43	10396	3.101	ug/l	97
18) Methyl Acetate	2.61	43	3079	0.377	ug/l #	83
20) Methylene Chloride	2.69	84	12837	1.954	ug/l	98
31) Cyclohexane	4.96	56	7310	0.963	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	29067	3.927	ug/l #	48
38) Carbon Tetrachloride	4.96	117	39161	4.955	ug/l #	16
43) Isopropyl Acetate	5.53	43	71479	5.235	ug/l	98
48) Methyl methacrylate	6.68	41	110485	17.037	ug/l #	37
51) 4-Methyl-2-Pentanone	7.40	43	57883	6.125	ug/l #	46
52) Toluene	7.62	92	3925	0.262	ug/l	95
54) cis-1,3-Dichloropropene	7.41	75	32066	3.124	ug/l #	63
56) Ethyl methacrylate	7.95	69	77	3.084	ug/l #	28
57) 1,3-Dichloropropane	8.40	76	5618	0.507	ug/l #	43
59) 2-Hexanone	8.29	43	71998	10.198	ug/l #	22
74) N-amyl acetate	9.92	43	2111	0.236	ug/l #	43
76) 1,2,3-Trichloropropane	10.29	75	160464	21.514	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	160464	72.352	ug/l #	100
95) Naphthalene	13.80	128	40	3.968	ug/l #	69

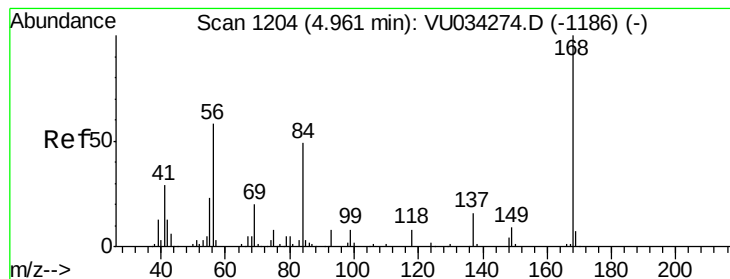
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU034306.D

Acq: 06 Sep 2019 00:04

Instrument :

MSVOA_U

ClientSampleId :

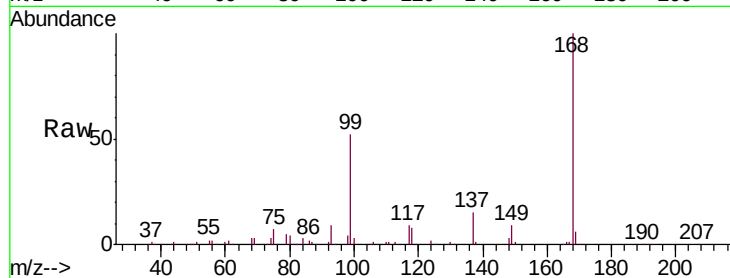
PAR-12-A3-(3.5)

Tgt Ion:168 Resp: 428142

Ion Ratio Lower Upper

168 100

99 51.9 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

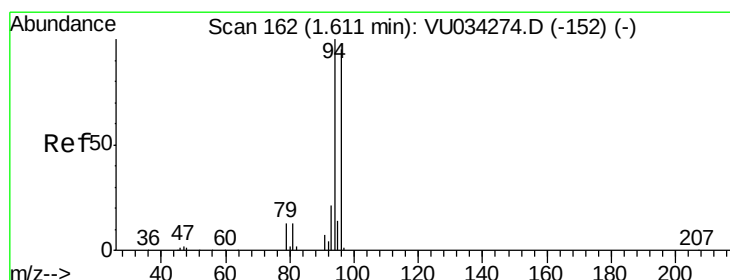
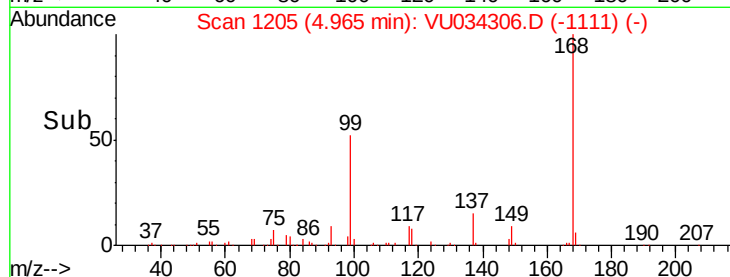
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 167

Delta R.T. 0.02 min

Lab File: VU034306.D

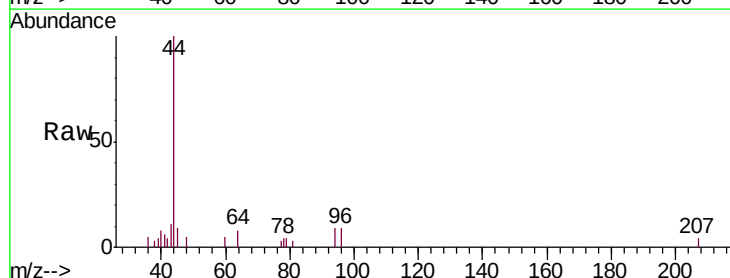
Acq: 06 Sep 2019 00:04

Tgt Ion: 94 Resp: 490

Ion Ratio Lower Upper

94 100

96 104.8 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

400

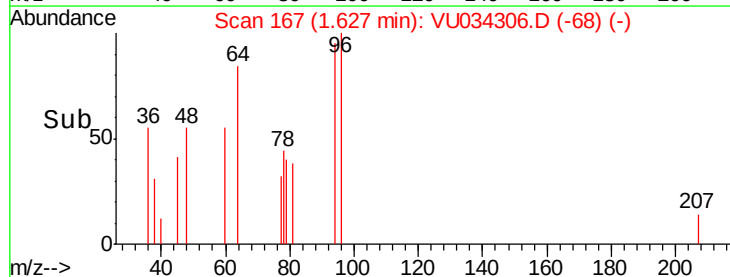
300

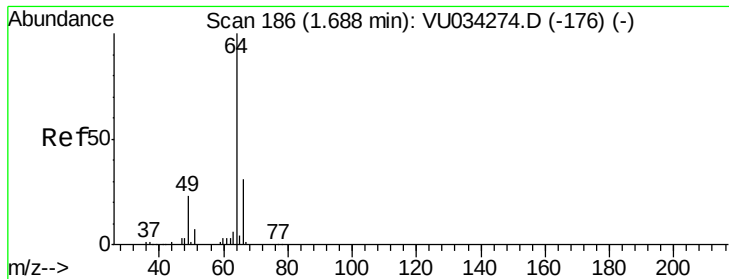
200

100

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.67 min Scan# 180

Delta R.T. -0.02 min

Lab File: VU034306.D

Acq: 06 Sep 2019 00:04

Instrument :

MSVOA_U

ClientSampleId :

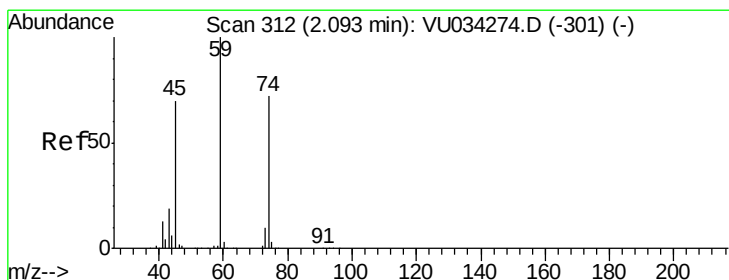
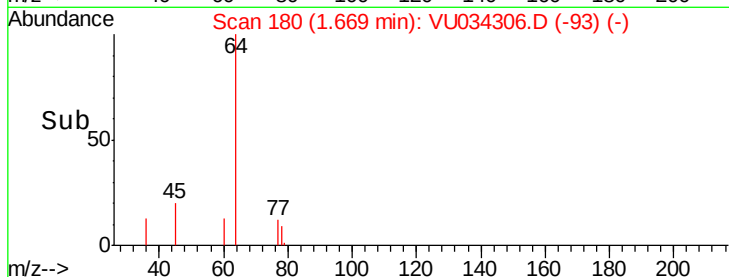
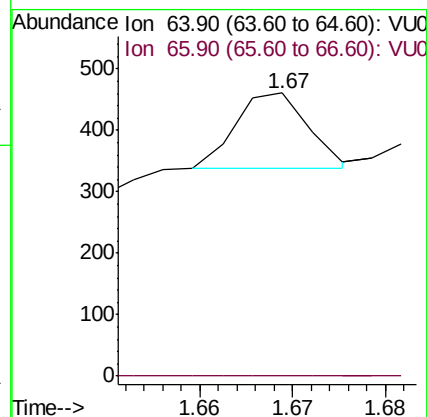
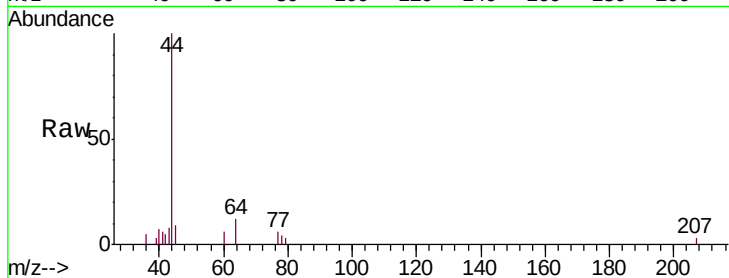
PAR-12-A3-(3.5)

Tgt Ion: 64 Resp: 66

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



#8

Diethyl Ether

Concen: 0.574 ug/l

RT: 2.10 min Scan# 313

Delta R.T. 0.00 min

Lab File: VU034306.D

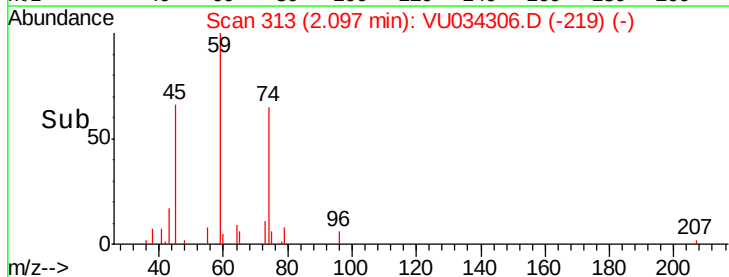
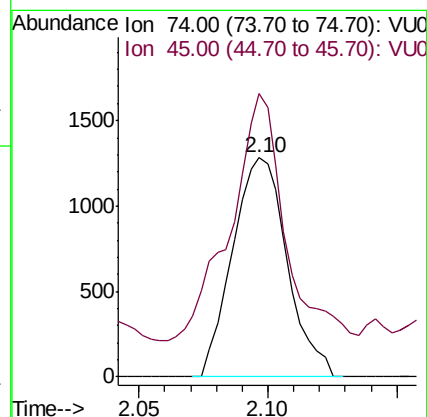
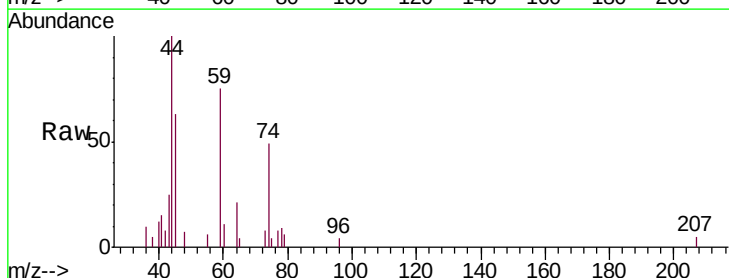
Acq: 06 Sep 2019 00:04

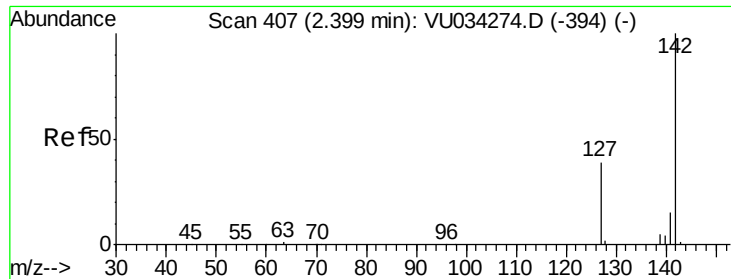
Tgt Ion: 74 Resp: 1890

Ion Ratio Lower Upper

74 100

45 114.4 48.2 144.6

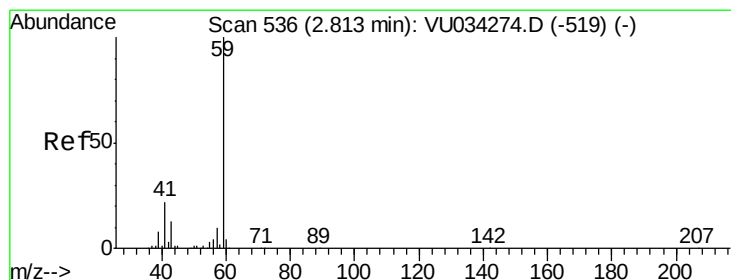
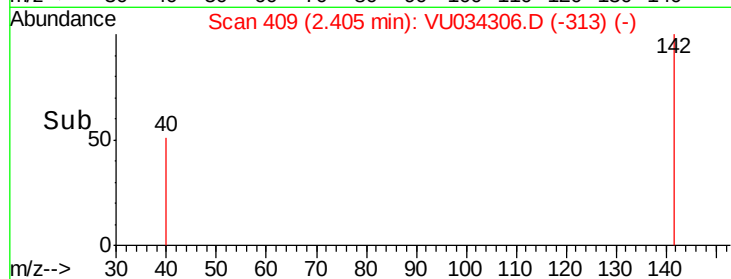
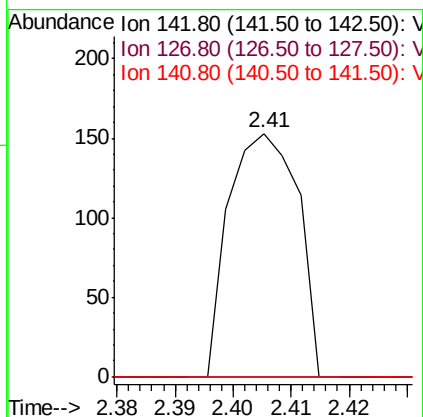
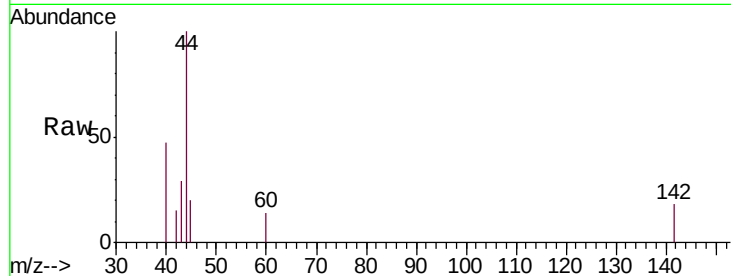




#10
Methyl Iodide
Concen: 3.872 ug/l
RT: 2.41 min Scan# 409
Delta R.T. 0.01 min
Lab File: VU034306.D
Acq: 06 Sep 2019 00:04

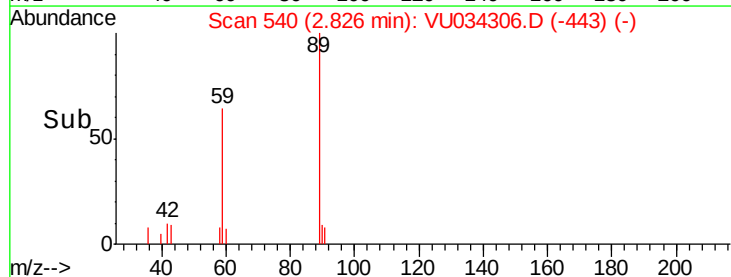
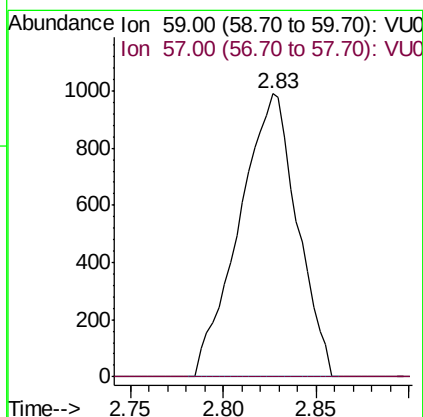
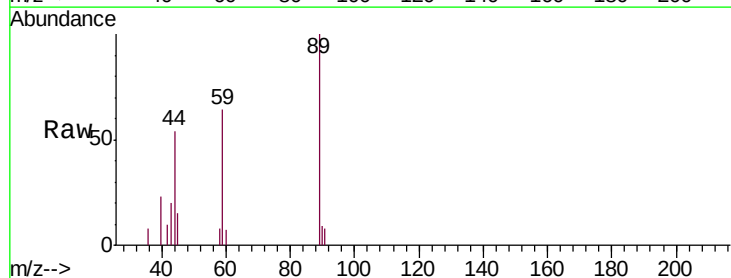
Instrument :
MSVOA_U
ClientSampleId :
PAR-12-A3-(3.5)

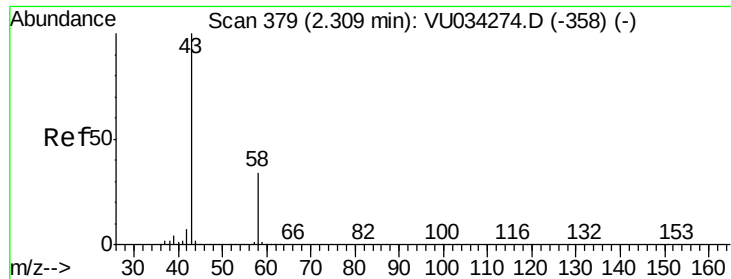
Tgt Ion:142 Resp: 126
Ion Ratio Lower Upper
142 100
127 0.0 32.1 48.1#
141 0.0 11.5 17.3#



#11
Tert butyl alcohol
Concen: 1.574 ug/l
RT: 2.83 min Scan# 540
Delta R.T. 0.01 min
Lab File: VU034306.D
Acq: 06 Sep 2019 00:04

Tgt Ion: 59 Resp: 2154
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#





#16

Acetone

Concen: 3.101 ug/l

RT: 2.32 min Scan# 381

Delta R.T. 0.01 min

Lab File: VU034306.D

Acq: 06 Sep 2019 00:04

Instrument :

MSVOA_U

ClientSampleId :

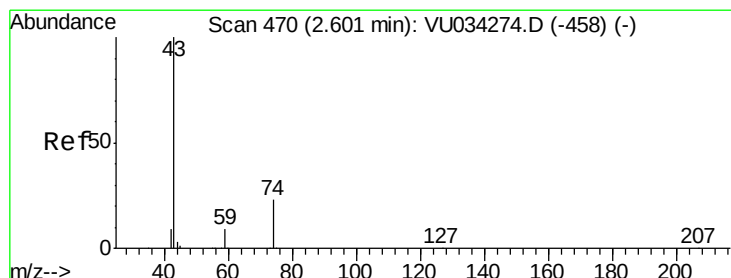
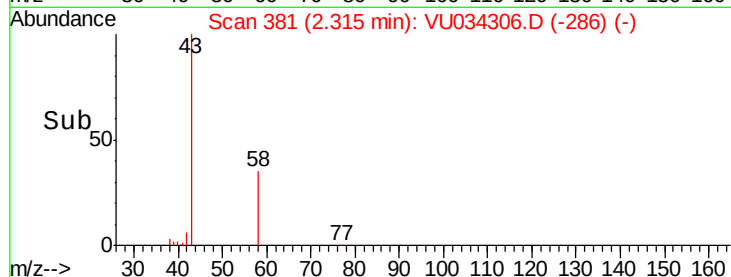
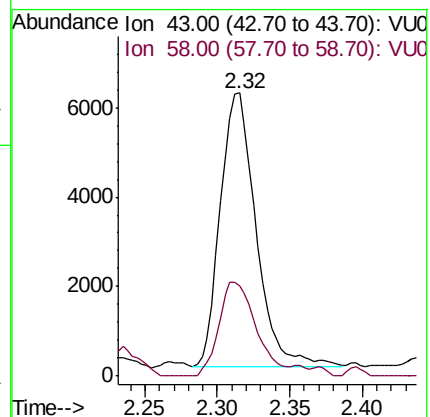
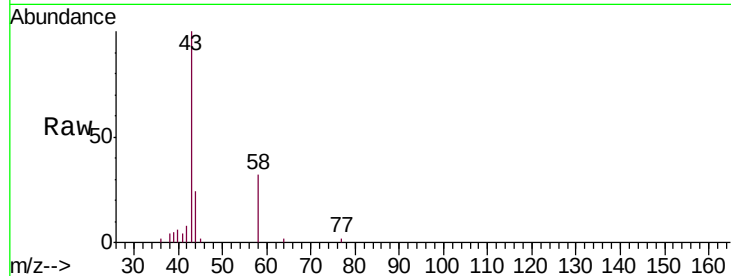
PAR-12-A3-(3.5)

Tgt Ion: 43 Resp: 10396

Ion Ratio Lower Upper

43 100

58 33.0 27.6 41.4



#18

Methyl Acetate

Concen: 0.377 ug/l

RT: 2.61 min Scan# 473

Delta R.T. 0.01 min

Lab File: VU034306.D

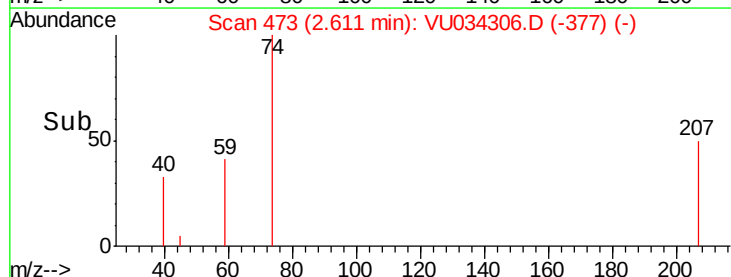
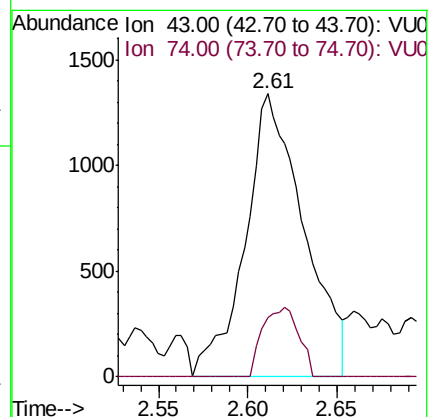
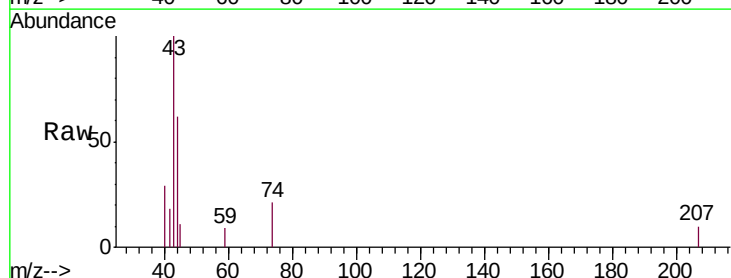
Acq: 06 Sep 2019 00:04

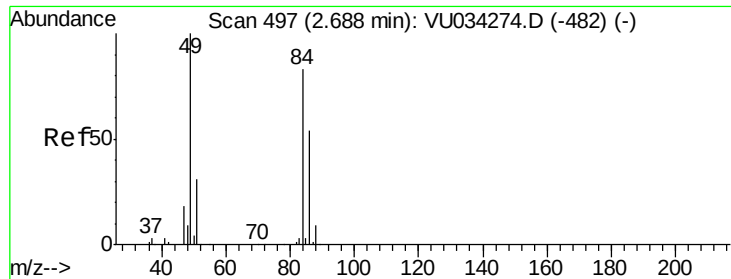
Tgt Ion: 43 Resp: 3079

Ion Ratio Lower Upper

43 100

74 15.2 18.9 28.3#

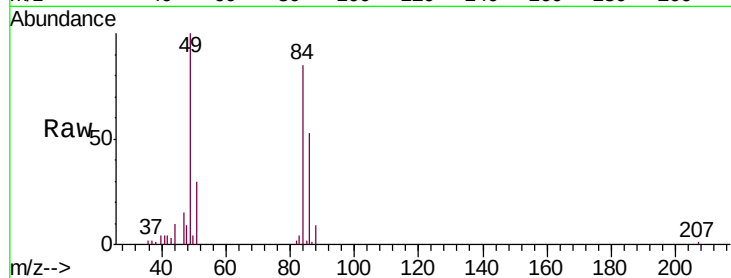




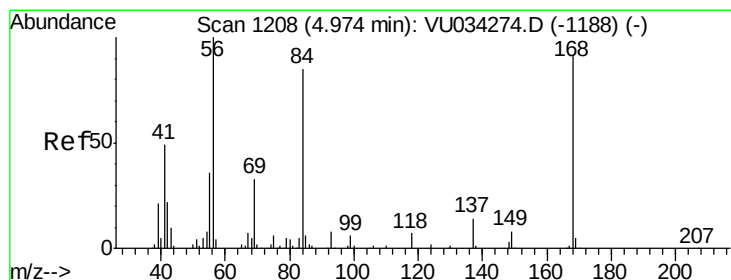
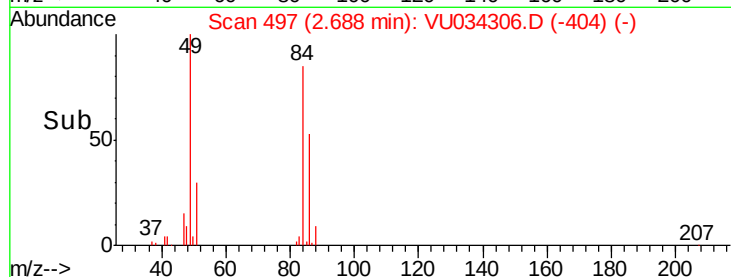
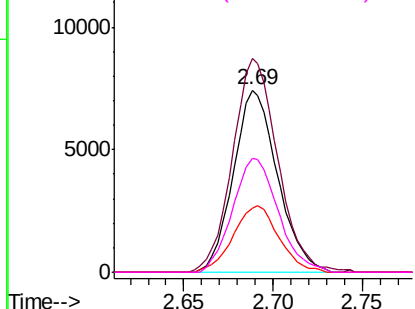
#20
Methylene Chloride
Concen: 1.954 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU034306.D
Acq: 06 Sep 2019 00:04

Instrument :
MSVOA_U
ClientSampleId :
PAR-12-A3-(3.5)

Tgt Ion:	84	Resp:	12837
Ion	Ratio	Lower	Upper
84	100		
49	117.3	96.0	144.0
51	35.3	30.0	45.0
86	62.6	51.4	77.0

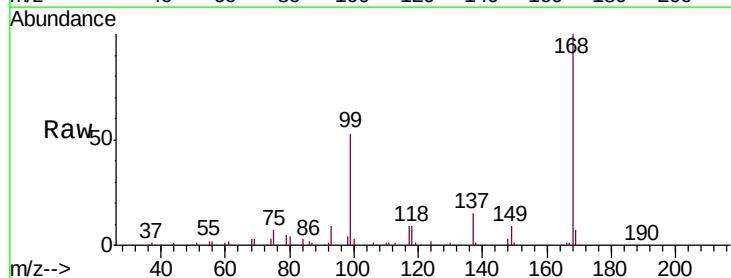


Abundance Ion 83.90 (83.60 to 84.60): VU0
Ion 48.90 (48.60 to 49.60): VU0
Ion 50.90 (50.60 to 51.60): VU0
Ion 85.90 (85.60 to 86.60): VU0

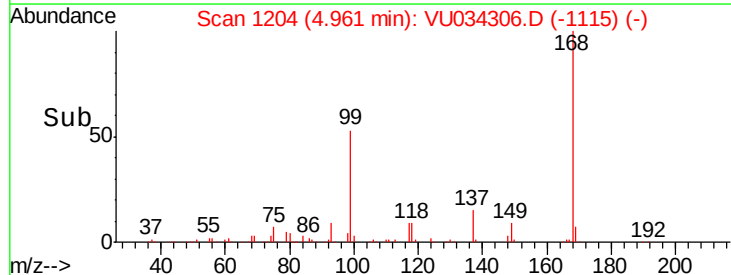
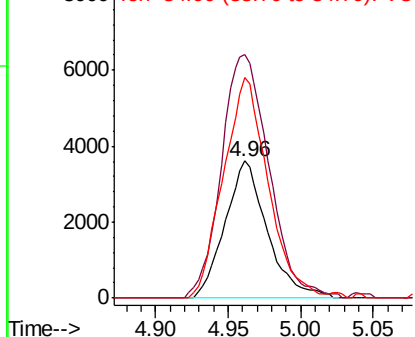


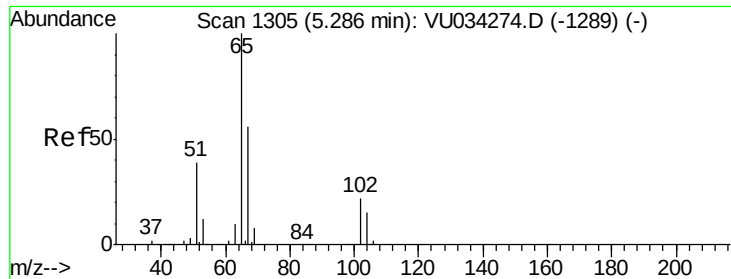
#31
Cyclohexane
Concen: 0.963 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VU034306.D
Acq: 06 Sep 2019 00:04

Tgt Ion:	56	Resp:	7310
Ion	Ratio	Lower	Upper
56	100		
69	174.6	26.7	40.1#
84	161.0	68.2	102.4#



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

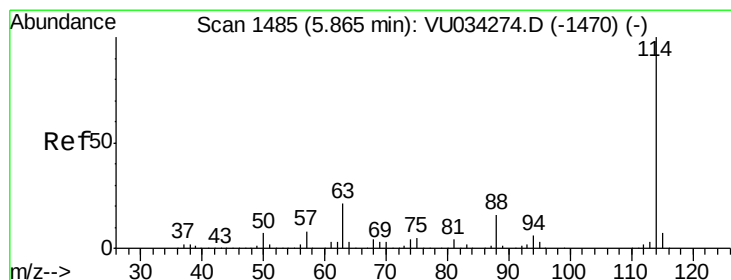
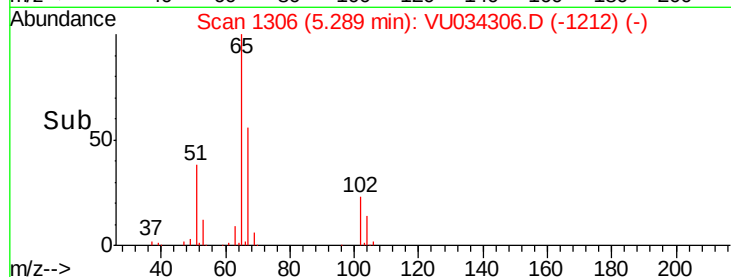
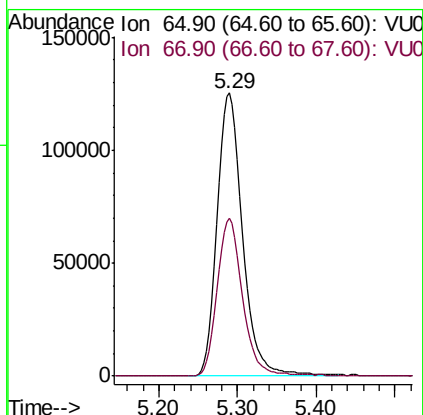
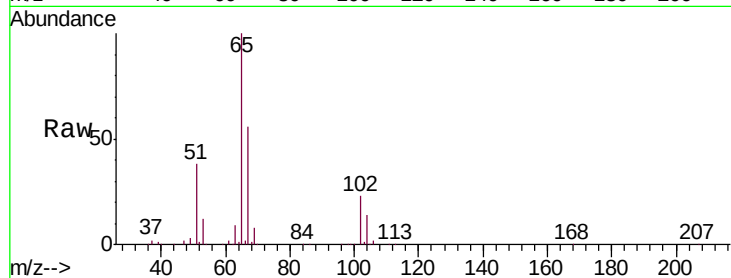




#33
 1,2-Dichloroethane-d4
 Concen: 43.361 ug/l
 RT: 5.29 min Scan# 1306
 Delta R.T. 0.00 min
 Lab File: VU034306.D
 Acq: 06 Sep 2019 00:04

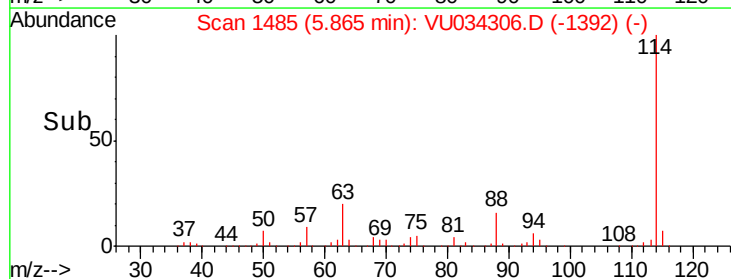
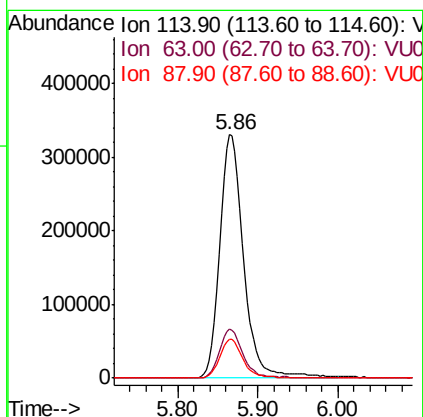
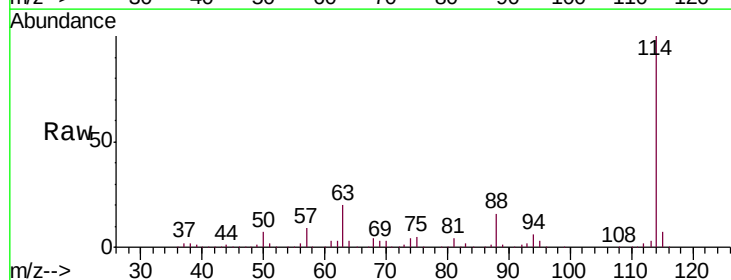
Instrument :
 MSVOA_U
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 PAR-12-A3-(3.5)

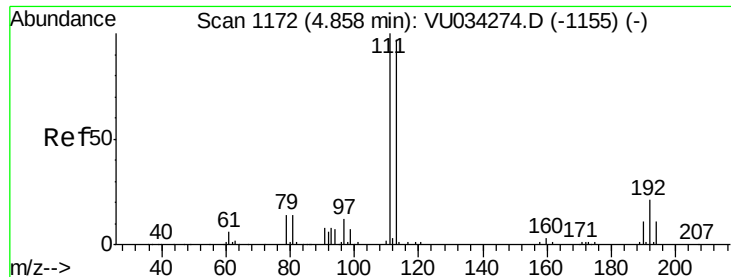
Tgt Ion: 65 Resp: 280887
 Ion Ratio Lower Upper
 65 100
 67 54.9 0.0 112.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.86 min Scan# 1485
 Delta R.T. 0.00 min
 Lab File: VU034306.D
 Acq: 06 Sep 2019 00:04

Tgt Ion: 114 Resp: 682576
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 42.4
 88 15.9 0.0 32.4

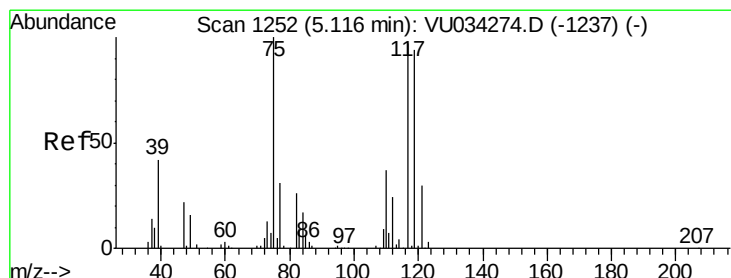
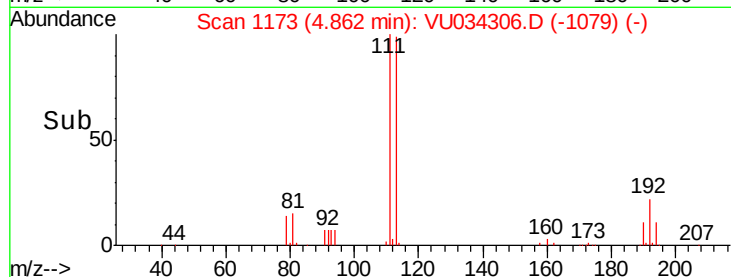
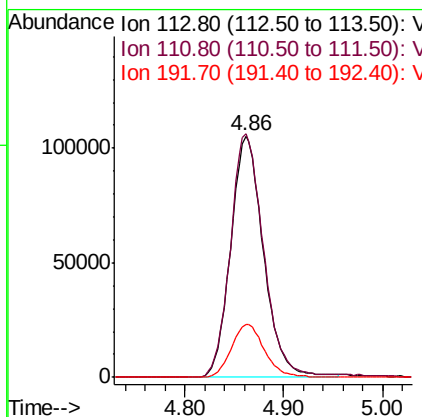
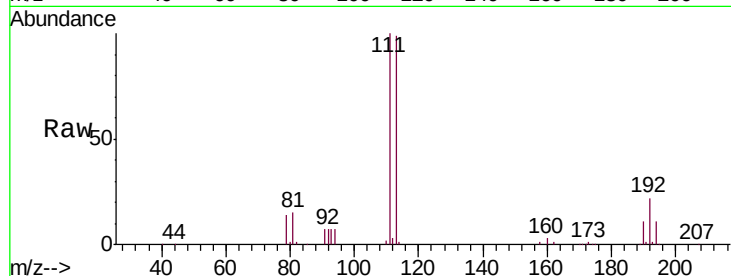




#35
 Dibromofluoromethane
 Concen: 38.448 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034306.D
 Acq: 06 Sep 2019 00:04

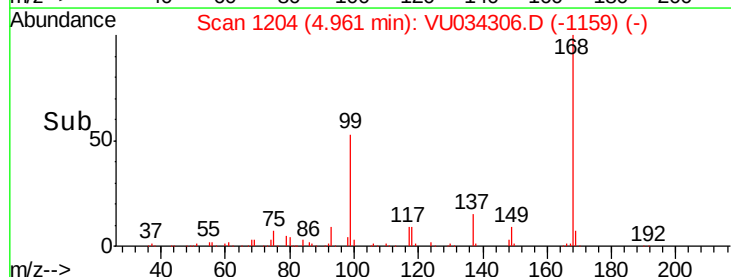
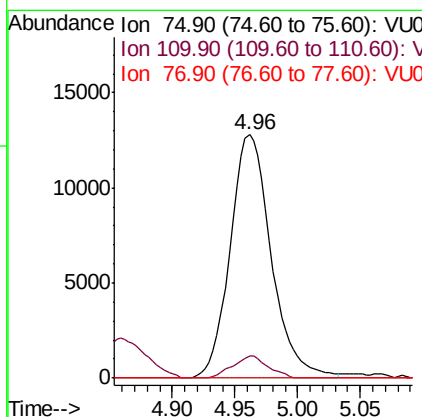
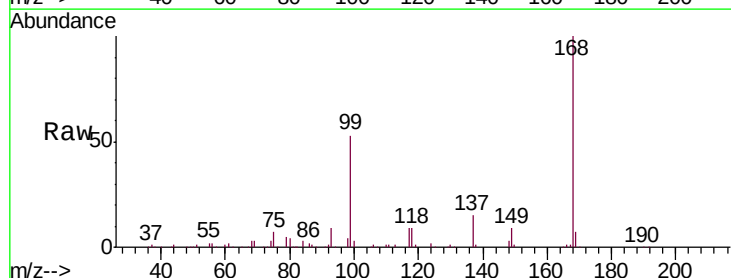
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 PAR-12-A3-(3.5)

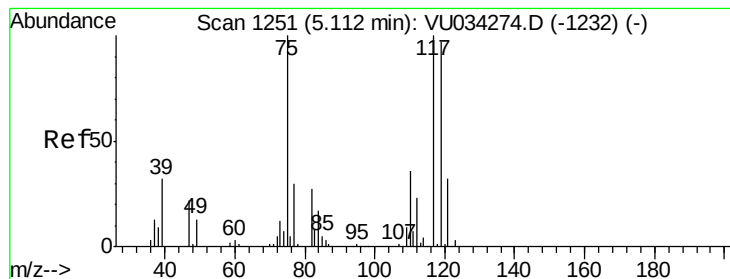
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.6	81.5	122.3
192	22.2	17.8	26.8



#36
 1,1-Dichloropropene
 Concen: 3.927 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034306.D
 Acq: 06 Sep 2019 00:04

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.9	18.3	54.9#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 4.955 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034306.D

Acq: 06 Sep 2019 00:04

Instrument :

MSVOA_U

ClientSampleId :

PAR-12-A3-(3.5)

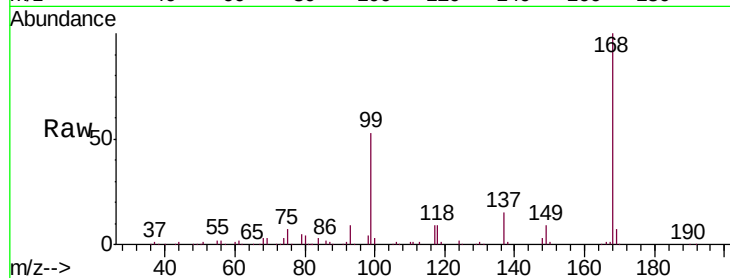
Tgt Ion:117 Resp: 39161

Ion Ratio Lower Upper

117 100

119 5.6 77.8 116.6#

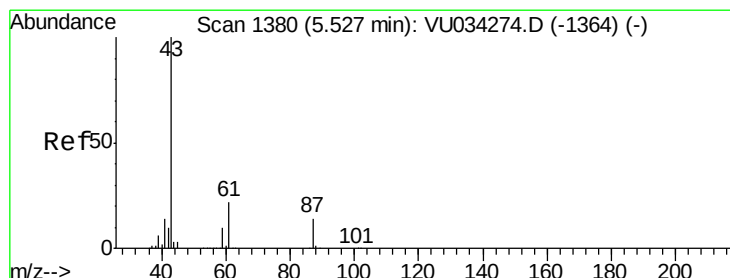
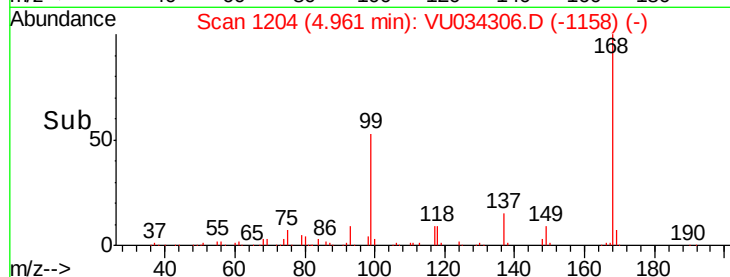
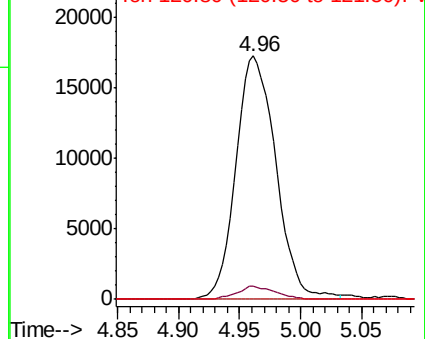
121 0.0 25.2 37.8#



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



#43

Isopropyl Acetate

Concen: 5.235 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034306.D

Acq: 06 Sep 2019 00:04

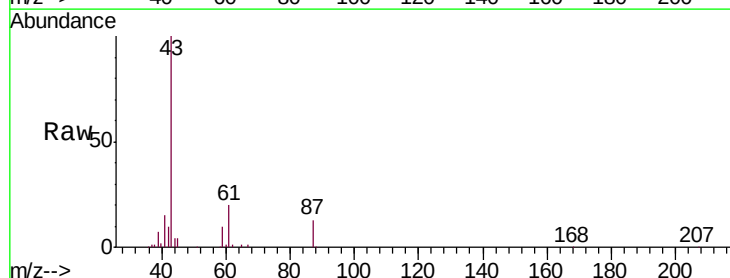
Tgt Ion: 43 Resp: 71479

Ion Ratio Lower Upper

43 100

61 20.1 17.1 25.7

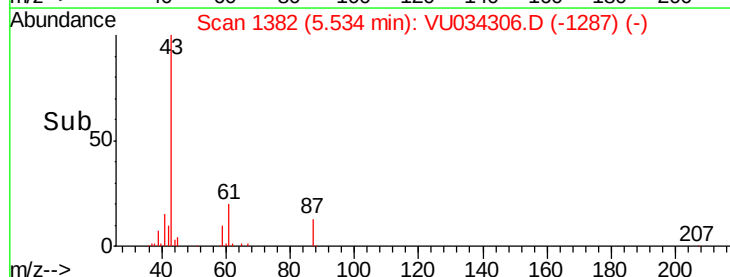
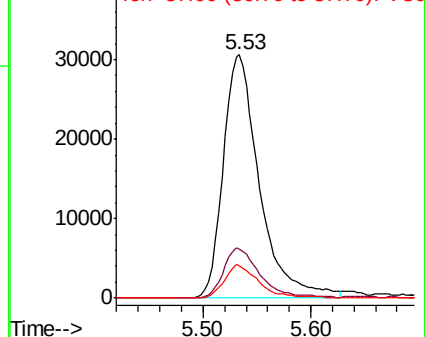
87 13.1 11.1 16.7

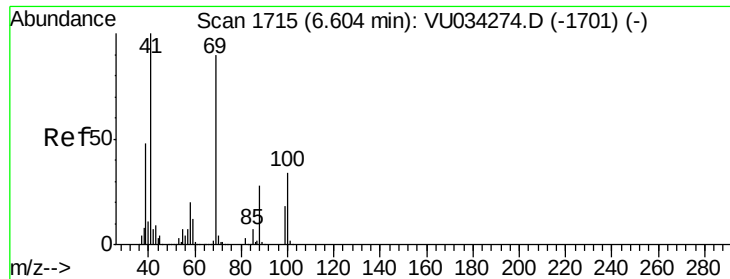


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

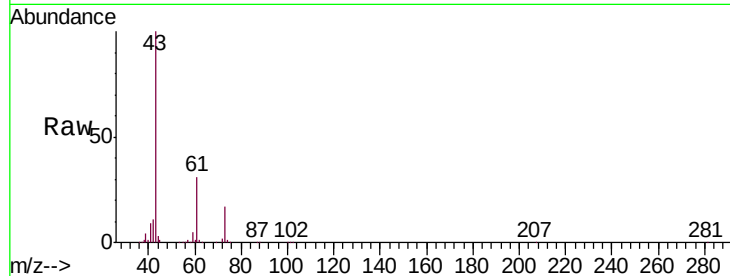




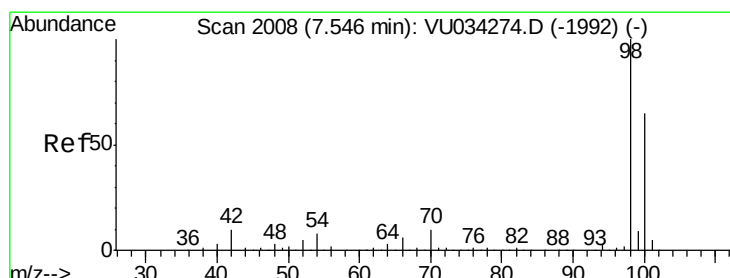
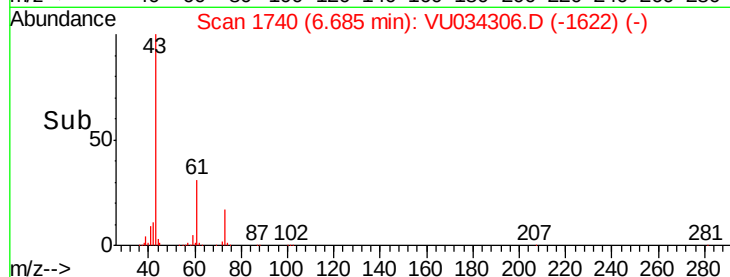
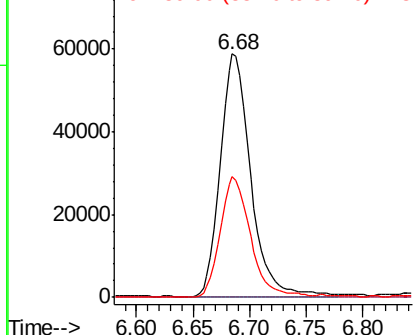
#48
Methyl methacrylate
Concen: 17.037 ug/l
RT: 6.68 min Scan# 1740
Delta R.T. 0.08 min
Lab File: VU034306.D
Acq: 06 Sep 2019 00:04

Instrument :
MSVOA_U
ClientSampleId :
PAR-12-A3-(3.5)

Tgt Ion: 41 Resp: 110485
Ion Ratio Lower Upper
41 100
69 0.1 72.8 109.2#
39 49.1 38.6 58.0

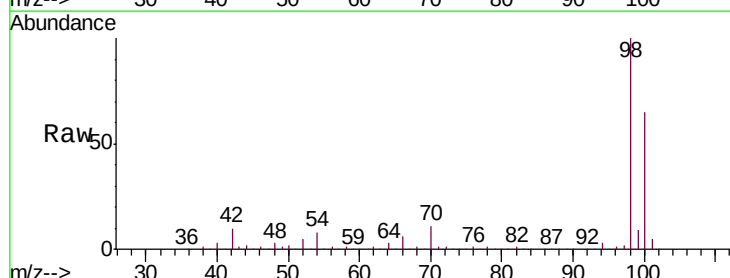


Abundance Ion 41.00 (40.70 to 41.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 39.00 (38.70 to 39.70): VU0

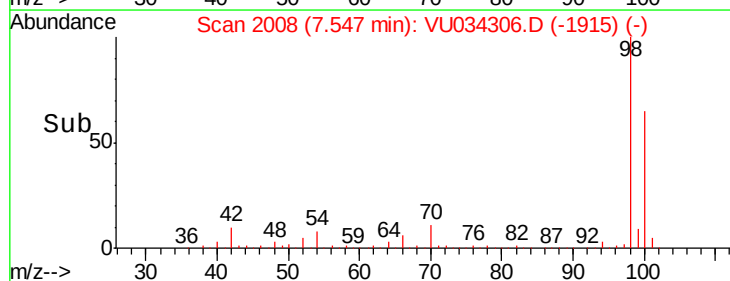
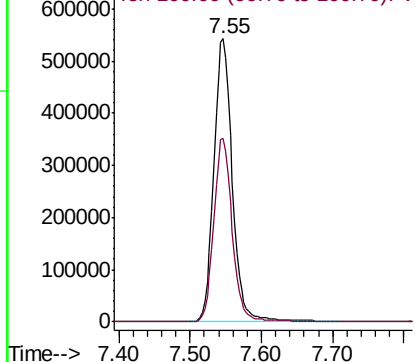


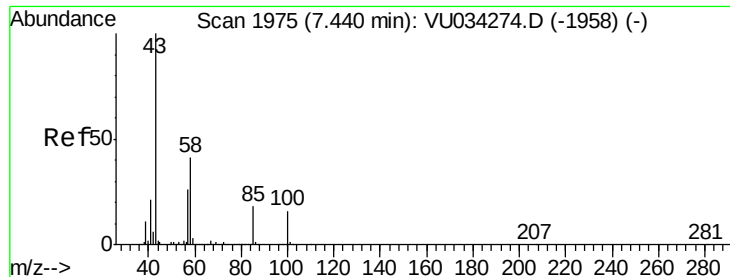
#50
Toluene-d8
Concen: 40.915 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034306.D
Acq: 06 Sep 2019 00:04

Tgt Ion: 98 Resp: 976322
Ion Ratio Lower Upper
98 100
100 64.9 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

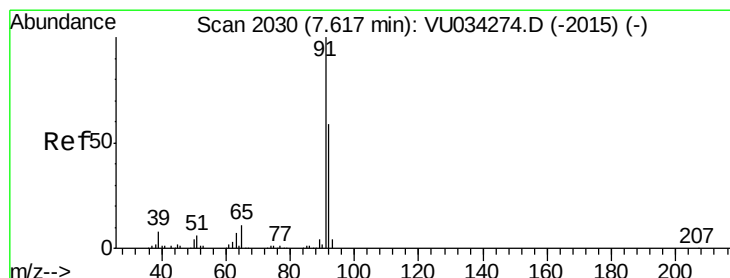
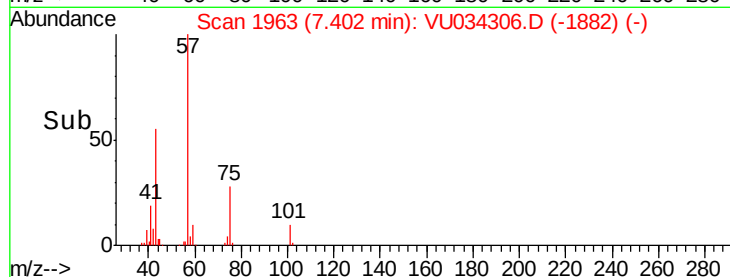
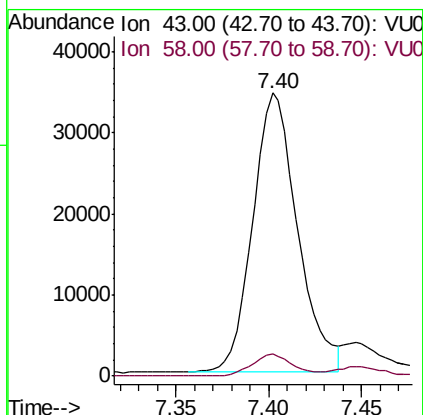
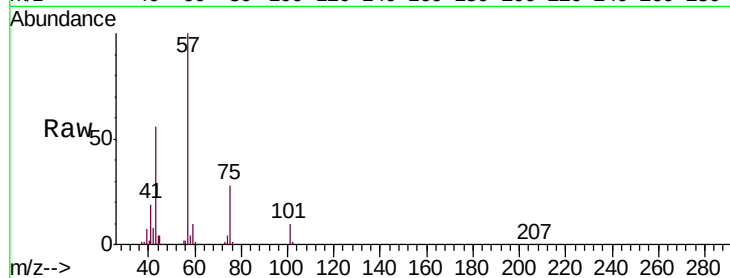




#51
 4-Methyl-2-Pentanone
 Concen: 6.125 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. -0.04 min
 Lab File: VU034306.D
 Acq: 06 Sep 2019 00:04

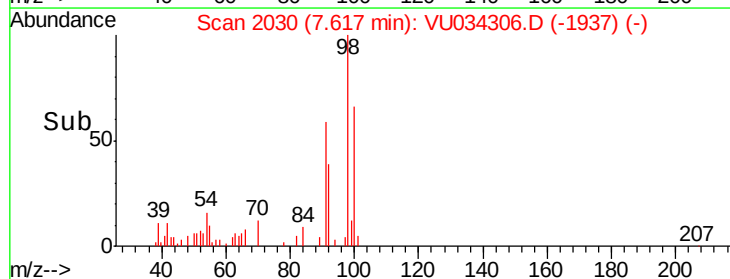
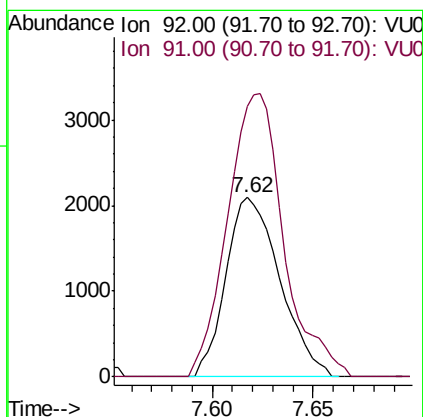
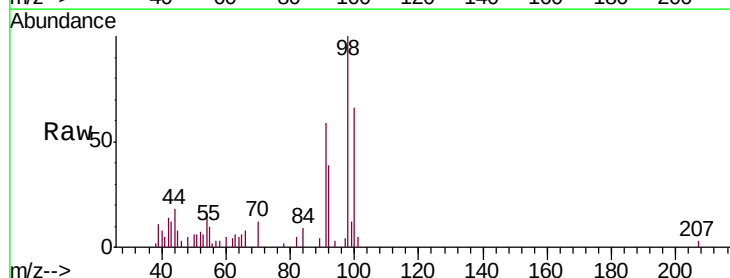
Instrument :
 MSVOA_U
 ClientSampleId :
 PAR-12-A3-(3.5)

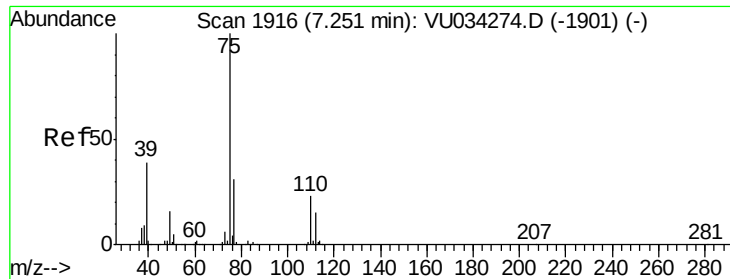
Tgt Ion: 43 Resp: 57883
 Ion Ratio Lower Upper
 43 100
 58 7.3 33.0 49.4#



#52
 Toluene
 Concen: 0.262 ug/l
 RT: 7.62 min Scan# 2030
 Delta R.T. 0.00 min
 Lab File: VU034306.D
 Acq: 06 Sep 2019 00:04

Tgt Ion: 92 Resp: 3925
 Ion Ratio Lower Upper
 92 100
 91 164.0 136.6 205.0





#54

cis-1,3-Dichloropropene

Concen: 3.124 ug/l

RT: 7.41 min Scan# 1964

Delta R.T. 0.15 min

Lab File: VU034306.D

Acq: 06 Sep 2019 00:04

Instrument :

MSVOA_U

ClientSampleId :

PAR-12-A3-(3.5)

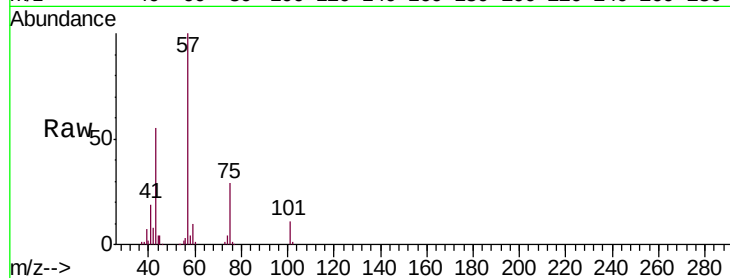
Tgt Ion: 75 Resp: 32066

Ion Ratio Lower Upper

75 100

77 0.6 25.1 37.7#

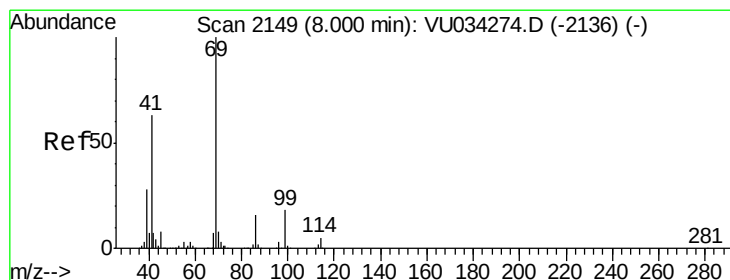
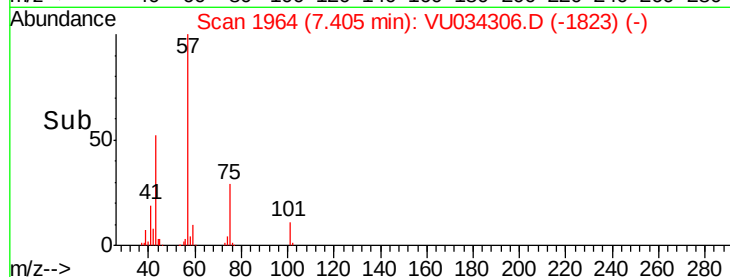
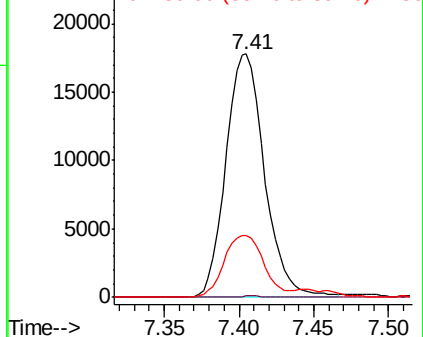
39 25.6 31.2 46.8#



Abundance Ion 74.90 (74.60 to 75.60): VU034306.D (-1823) (-)

Ion 76.90 (76.60 to 77.60): VU034306.D (-1823) (-)

Ion 39.00 (38.70 to 39.70): VU034306.D (-1823) (-)



#56

Ethyl methacrylate

Concen: 3.084 ug/l

RT: 7.95 min Scan# 2133

Delta R.T. -0.05 min

Lab File: VU034306.D

Acq: 06 Sep 2019 00:04

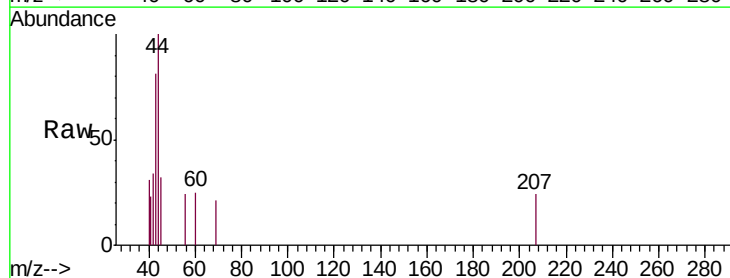
Tgt Ion: 69 Resp: 77

Ion Ratio Lower Upper

69 100

41 0.0 49.5 74.3#

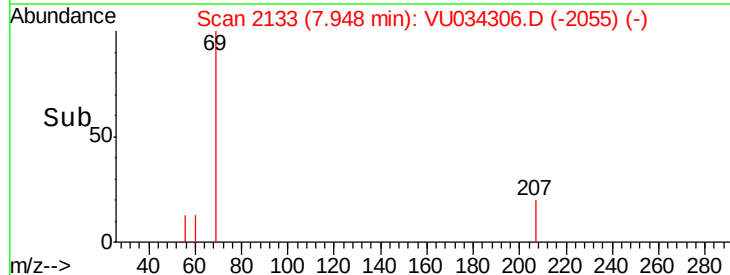
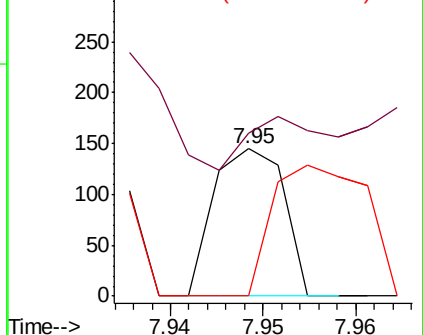
39 0.0 22.5 33.7#

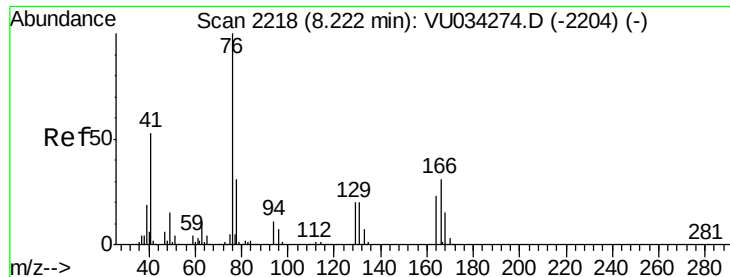


Abundance Ion 69.00 (68.70 to 69.70): VU034306.D (-2055) (-)

Ion 41.00 (40.70 to 41.70): VU034306.D (-2055) (-)

Ion 39.00 (38.70 to 39.70): VU034306.D (-2055) (-)

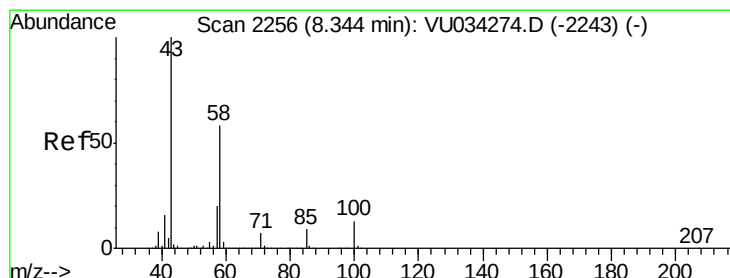
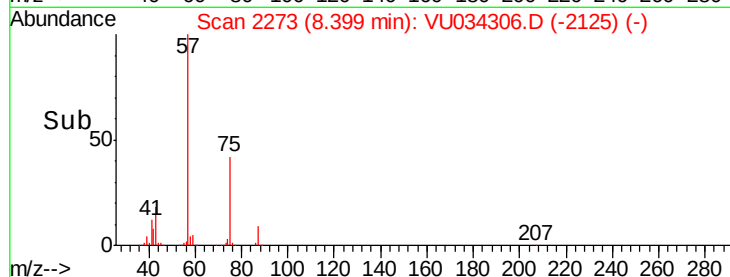
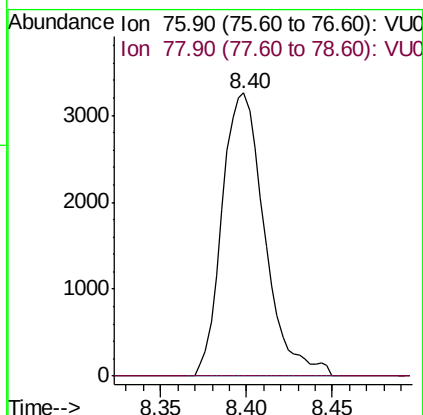
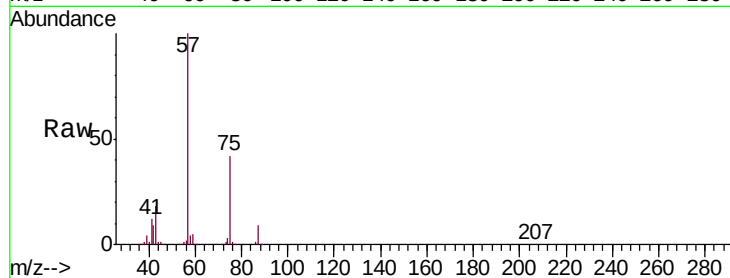




#57
 1,3-Dichloropropane
 Concen: 0.507 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.18 min
 Lab File: VU034306.D
 Acq: 06 Sep 2019 00:04

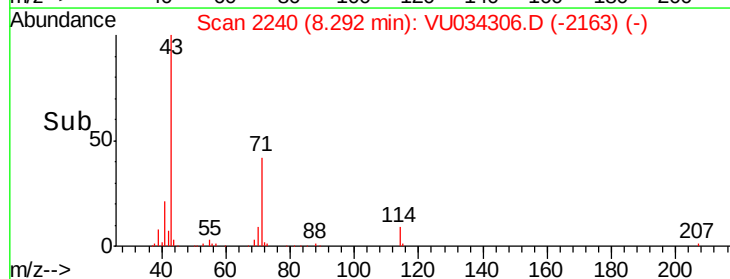
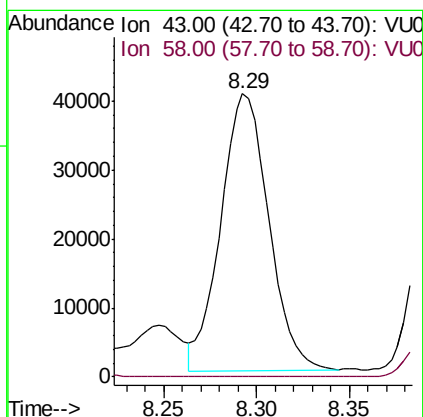
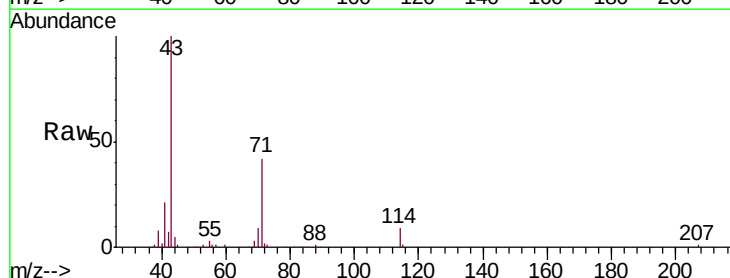
Instrument :
 MSVOA_U
 ClientSampleId :
 PAR-12-A3-(3.5)

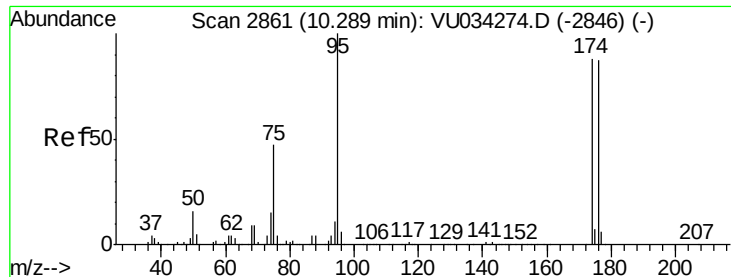
Tgt Ion: 76 Resp: 5618
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.2#



#59
 2-Hexanone
 Concen: 10.198 ug/l
 RT: 8.29 min Scan# 2240
 Delta R.T. -0.05 min
 Lab File: VU034306.D
 Acq: 06 Sep 2019 00:04

Tgt Ion: 43 Resp: 71998
 Ion Ratio Lower Upper
 43 100
 58 0.0 28.8 86.5#





#62

4-Bromofluorobenzene

Concen: 36.784 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VU034306.D

Acq: 06 Sep 2019 00:04

Instrument :

MSVOA_U

ClientSampleId :

PAR-12-A3-(3.5)

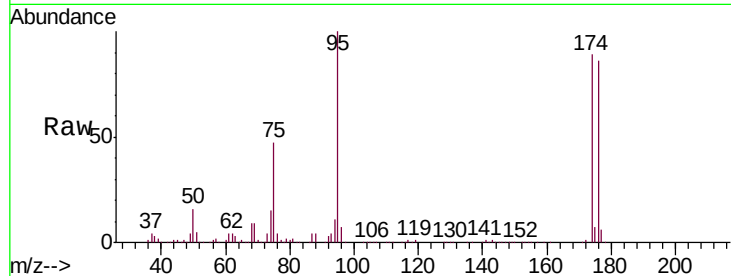
Tgt Ion: 95 Resp: 338897

Ion Ratio Lower Upper

95 100

174 88.4 0.0 175.2

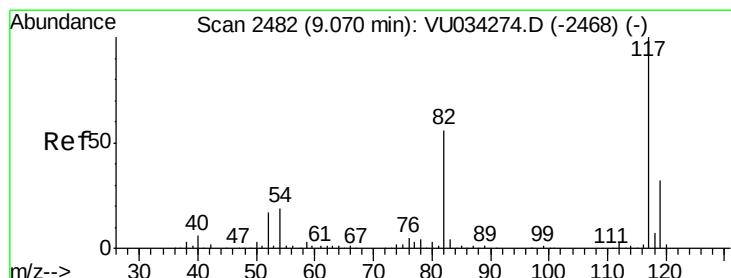
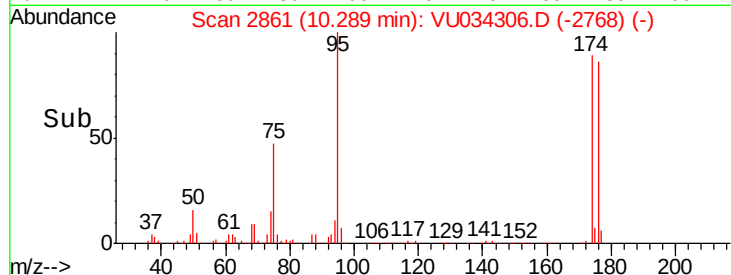
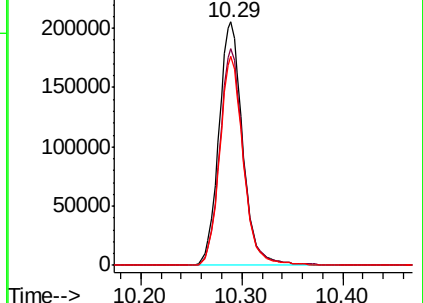
176 84.8 0.0 168.0



Abundance Ion 94.90 (94.60 to 95.60): VU034274.D (-2846) (-)

Ion 173.80 (173.50 to 174.50): VU034274.D (-2846) (-)

Ion 175.80 (175.50 to 176.50): VU034274.D (-2846) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2482

Delta R.T. 0.00 min

Lab File: VU034306.D

Acq: 06 Sep 2019 00:04

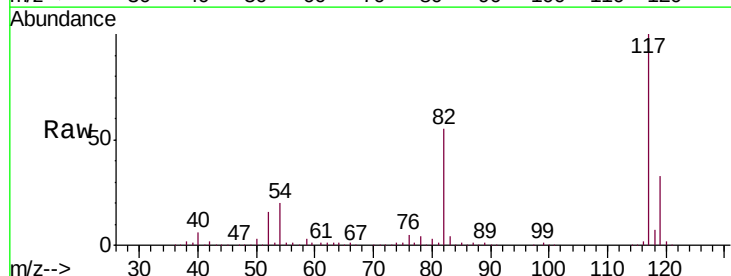
Tgt Ion: 117 Resp: 677953

Ion Ratio Lower Upper

117 100

82 55.0 44.6 67.0

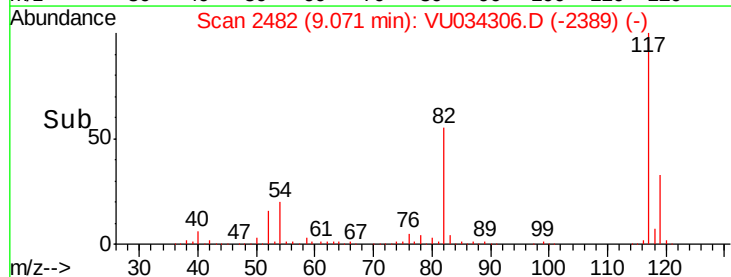
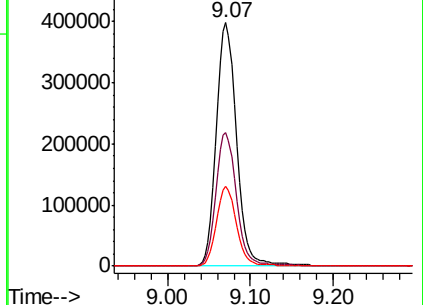
119 32.6 25.9 38.9

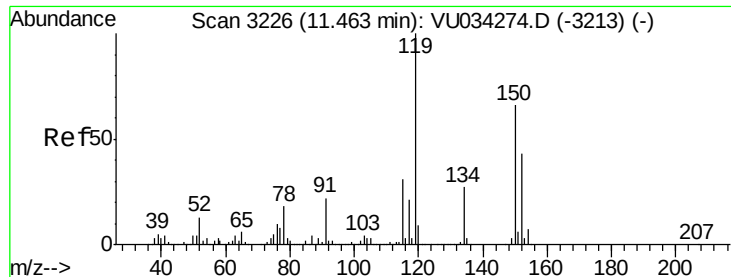


Abundance Ion 116.90 (116.60 to 117.60): VU034274.D (-2468) (-)

Ion 82.00 (81.70 to 82.70): VU034274.D (-2468) (-)

Ion 118.90 (118.60 to 119.60): VU034274.D (-2468) (-)

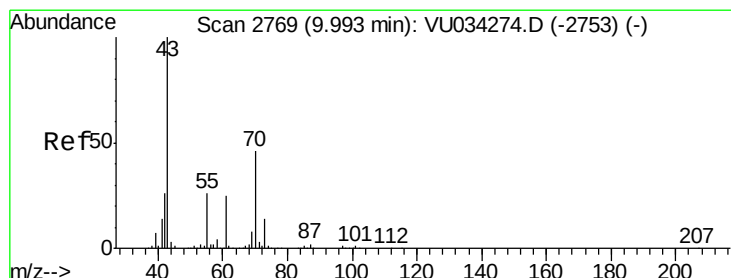
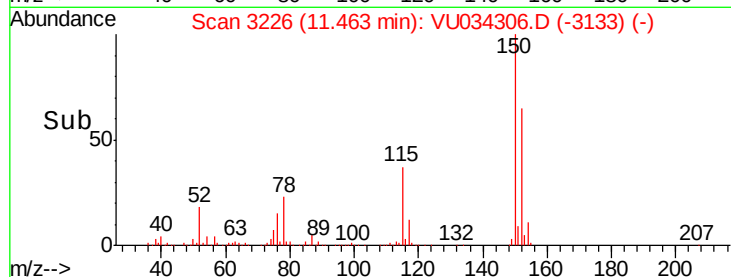
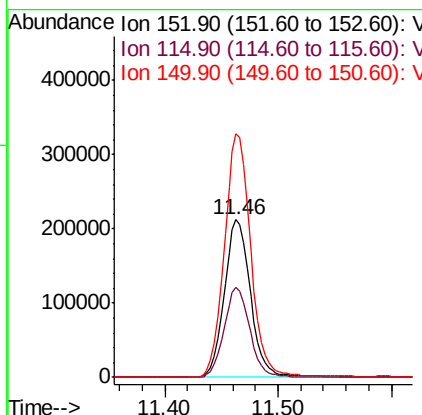
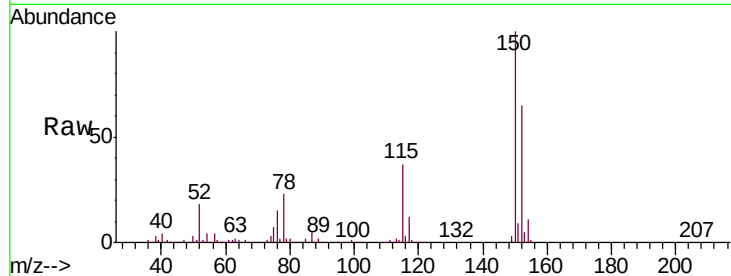




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.46 min Scan# 3226
 Delta R.T. 0.00 min
 Lab File: VU034306.D
 Acq: 06 Sep 2019 00:04

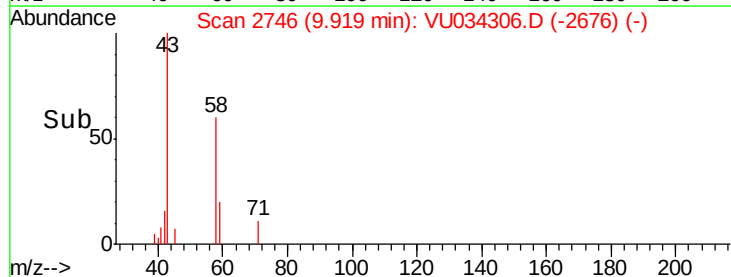
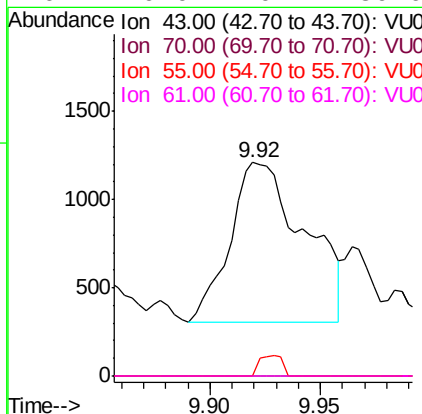
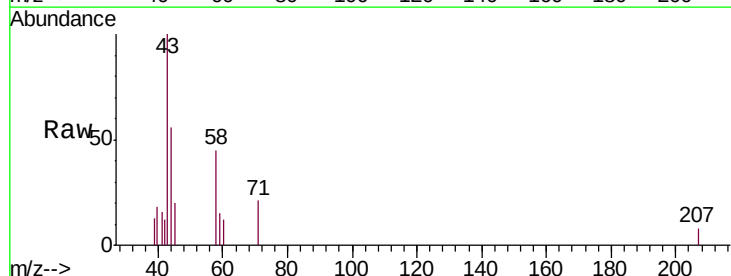
Instrument :
 MSVOA_U
 ClientSampleId :
 PAR-12-A3-(3.5)

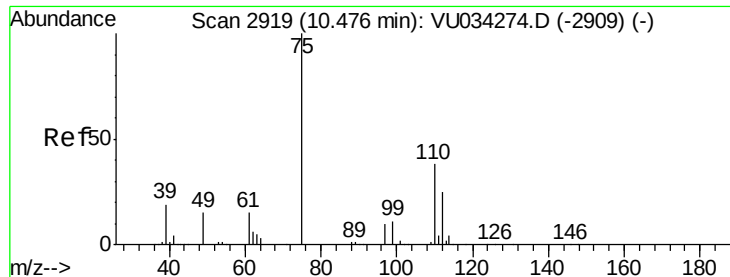
Tgt Ion:152 Resp: 341687
 Ion Ratio Lower Upper
 152 100
 115 56.4 39.1 117.3
 150 156.4 0.0 345.4



#74
 N-ethyl acetate
 Concen: 0.236 ug/l
 RT: 9.92 min Scan# 2746
 Delta R.T. -0.07 min
 Lab File: VU034306.D
 Acq: 06 Sep 2019 00:04

Tgt Ion: 43 Resp: 2111
 Ion Ratio Lower Upper
 43 100
 70 0.0 36.4 54.6#
 55 4.0 21.2 31.8#
 61 0.0 20.4 30.6#





#76

1,2,3-Trichloropropane

Concen: 21.514 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034306.D

Acq: 06 Sep 2019 00:04

Instrument :

MSVOA_U

ClientSampleId :

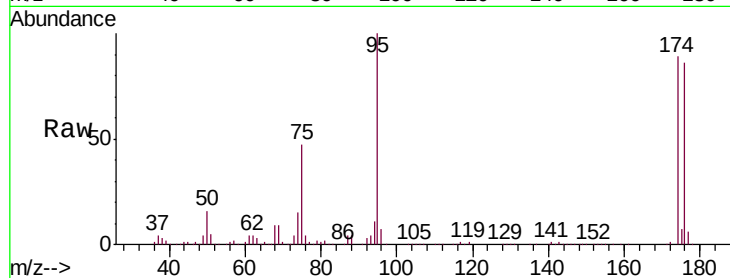
PAR-12-A3-(3.5)

Tgt Ion: 75 Resp: 160464

Ion Ratio Lower Upper

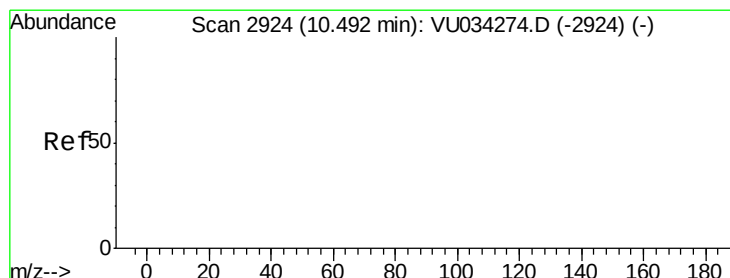
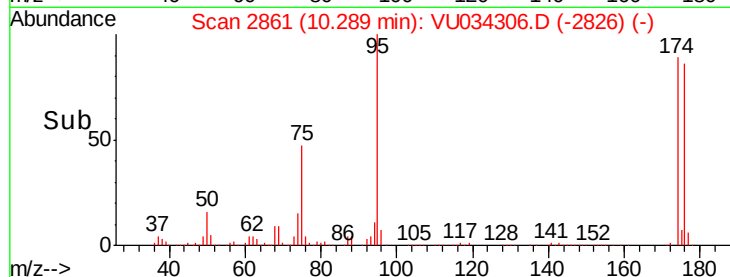
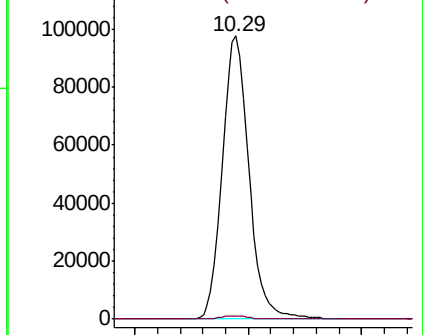
75 100

77 1.2 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: 72.352 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.20 min

Lab File: VU034306.D

Acq: 06 Sep 2019 00:04

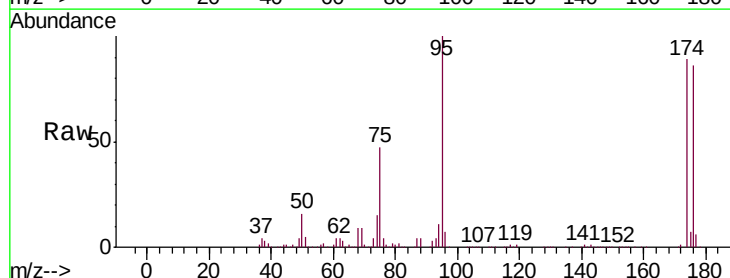
Tgt Ion: 75 Resp: 160464

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

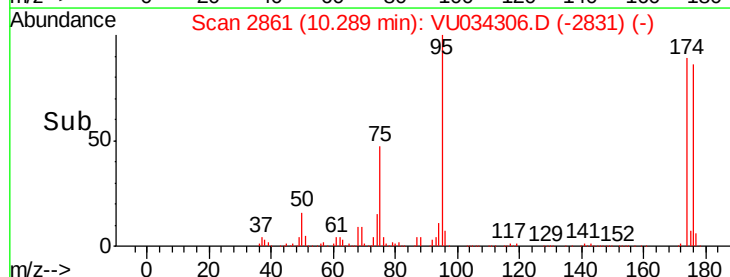
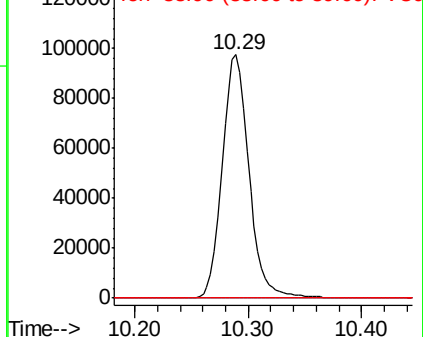
89 0.0 0.0 0.0

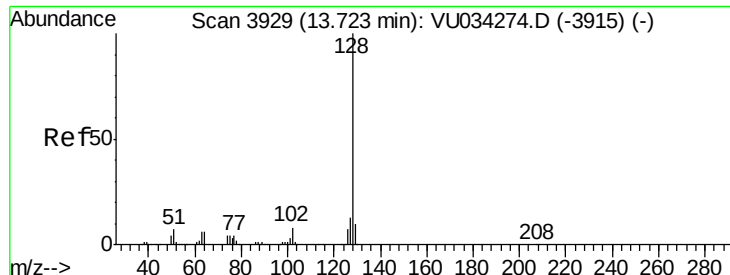


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0





#95

Naphthalene

Concen: 3.968 ug/l

RT: 13.80 min Scan# 3953

Delta R.T. 0.08 min

Lab File: VU034306.D

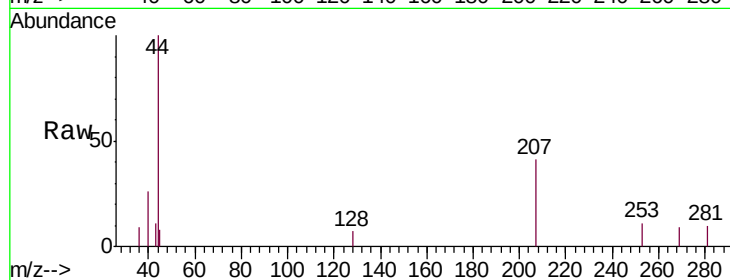
Acq: 06 Sep 2019 00:04

Instrument :

MSVOA_U

ClientSampleId :

PAR-12-A3-(3.5)



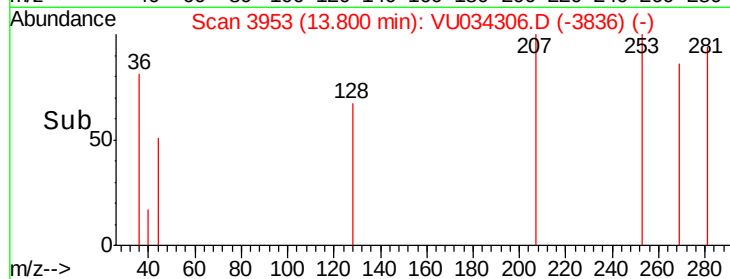
Tgt Ion:128 Resp: 40

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

129 0.0 8.4 12.6#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

