

Data File : VU034749.D
Acq On : 23 Sep 2019 21:42
Operator : JC/SP
Sample : K4932-05
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFDG7

Quant Time: Sep 24 03:41:25 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Sep 24 03:36:55 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	466872	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	443627	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	215656	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	210573	44.06	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	88.12%
7) Chloroethane-d5	1.67	69	173348	46.93	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.86%
11) 1,1-Dichloroethene-d2	2.26	63	297426	36.75	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	73.50%
21) 2-Butanone-d5	4.15	46	475434	129.79	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	129.79%
24) Chloroform-d	4.62	84	362889	52.23	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.46%
26) 1,2-Dichloroethane-d4	5.29	65	270231	52.90	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	105.80%
32) Benzene-d6	5.32	84	743317	54.06	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	108.12%
36) 1,2-Dichloropropane-d6	6.31	67	262866	54.69	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	109.38%
41) Toluene-d8	7.54	98	713487	54.54	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	109.08%
43) trans-1,3-Dichloropropene-	7.83	79	120850	52.50	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	105.00%
47) 2-Hexanone-d5	8.29	63	307309	127.31	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	127.31%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	349819	52.46	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	104.92%
64) 1,2-Dichlorobenzene-d4	11.84	152	251865	55.70	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	111.40%

Target Compounds

					Qvalue
5) Vinyl chloride	1.40	62	9477	1.800 ug/L #	69
12) 1,1-Dichloroethene	2.26	96	2635	0.863 ug/L #	1
13) Acetone	2.31	43	163109	38.278 ug/L	98
15) Methyl Acetate	2.61	43	7015	1.232 ug/L	97
16) Methylene chloride	2.68	84	42773	11.055 ug/L	98
19) 1,1-Dichloroethane	3.43	63	14493	1.892 ug/L	93
20) cis-1,2-Dichloroethene	4.20	96	37487	9.600 ug/L	95
22) 2-Butanone	4.25	43	62980	12.424 ug/L	84
29) Cyclohexane	4.97	56	9718	1.327 ug/L #	53
33) Benzene	5.37	78	194491	12.641 ug/L	100
34) Trichloroethene	6.16	95	32665	8.596 ug/L	92
35) Methylcyclohexane	6.39	83	9391	1.456 ug/L	91
40) 4-Methyl-2-pentanone	7.44	43	358758	41.017 ug/L	98
42) Toluene	7.61	91	1422900	85.572 ug/L	98
44) trans-1,3-Dichloropropene	7.83	75	6573	1.059 ug/L	92
52) Ethylbenzene	9.23	91	371280	19.828 ug/L	99
53) m,p-Xylene	9.35	106	515905	77.788 ug/L	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092319\
Quantitation Report (Not Reviewed)

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Quant Title : VOC Analysis
QLast Update : Tue Sep 24 03:36:55 2019
Response via : Initial Calibration

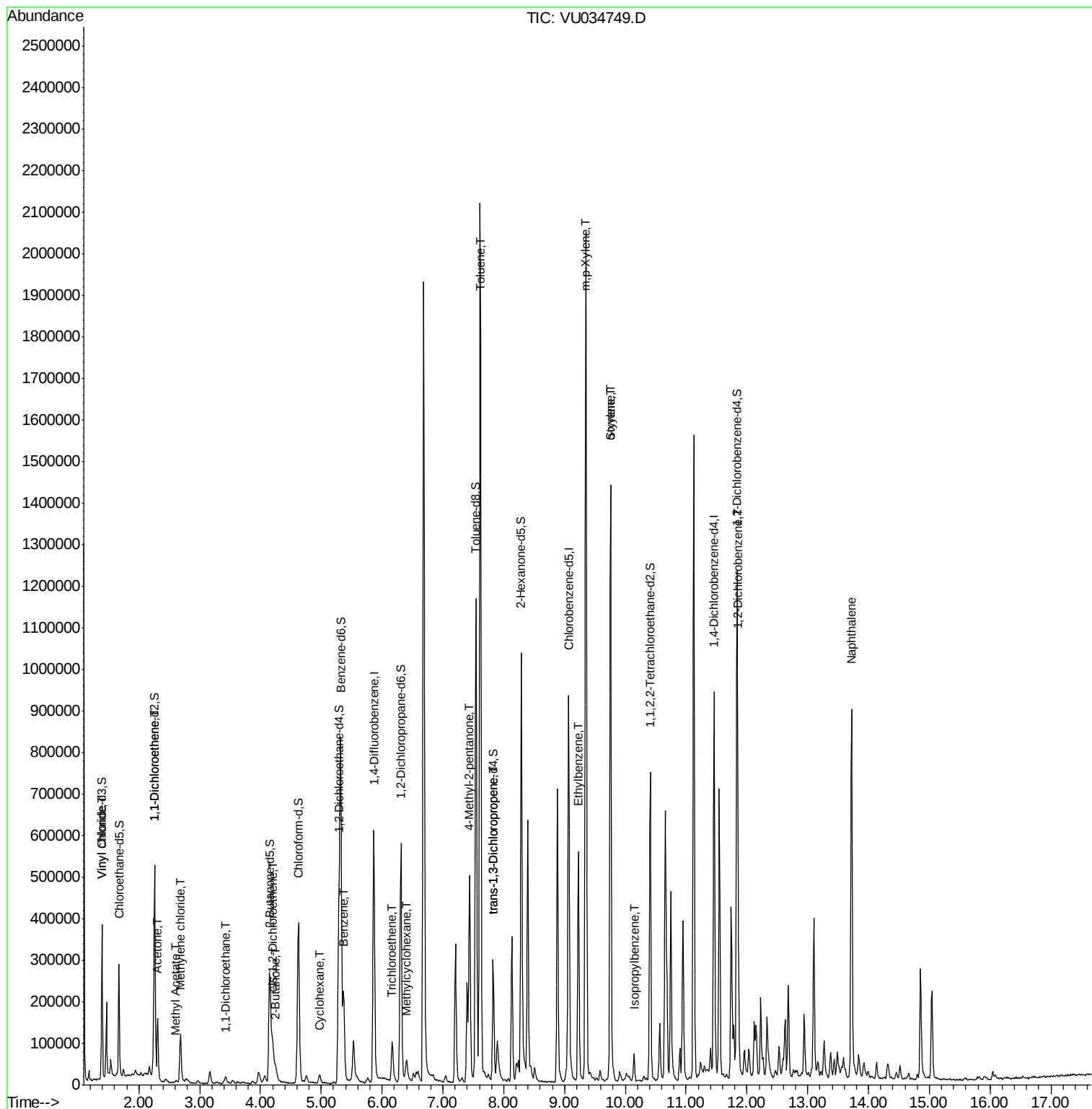
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-xylene	9.76	106	336965	51.368	ug/L	98
55) Styrene	9.76	104	19828	1.786	ug/L #	1
56) Isopropylbenzene	10.14	105	35940	2.032	ug/L	96
65) 1,2-Dichlorobenzene	11.86	146	47078	6.239	ug/L	97
69) Naphthalene	13.72	128	658035	48.306	ug/L	99

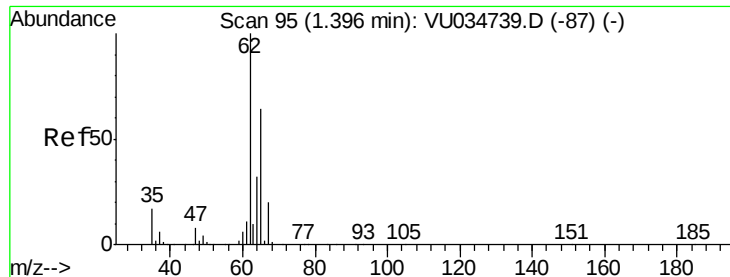
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 1.800 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU034749.D

Acq: 23 Sep 2019 21:42

Instrument :

MSVOA_U

ClientSampleId :

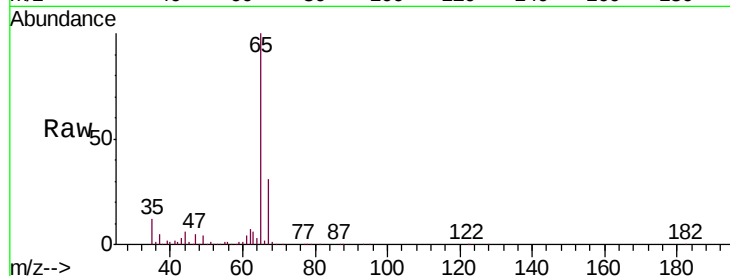
BFDG7

Tgt Ion: 62 Resp: 9477

Ion Ratio Lower Upper

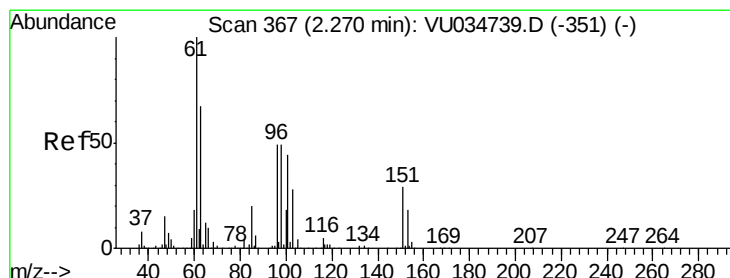
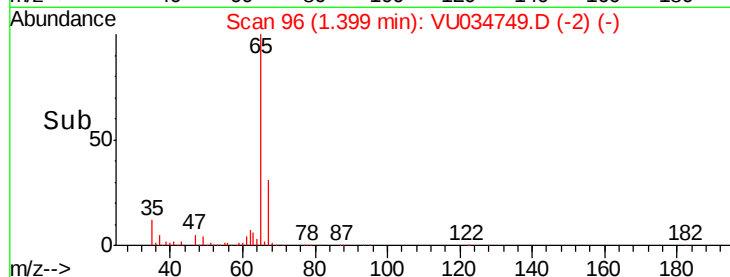
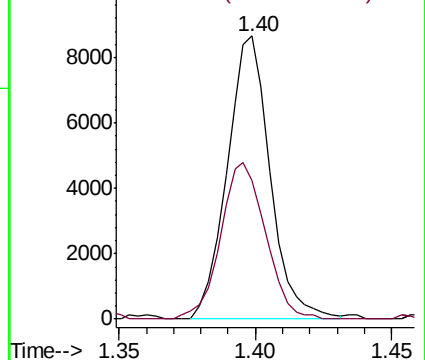
62 100

64 48.8 22.2 41.2#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#12

1,1-Dichloroethene

Concen: 0.863 ug/L

RT: 2.26 min Scan# 363

Delta R.T. -0.01 min

Lab File: VU034749.D

Acq: 23 Sep 2019 21:42

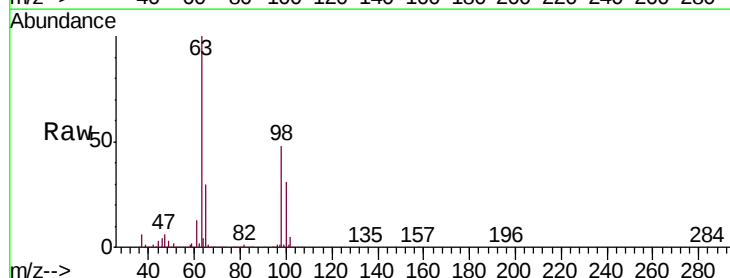
Tgt Ion: 96 Resp: 2635

Ion Ratio Lower Upper

96 100

61 1904.5 153.2 284.4#

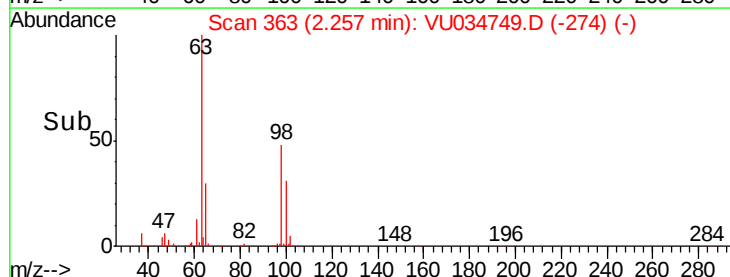
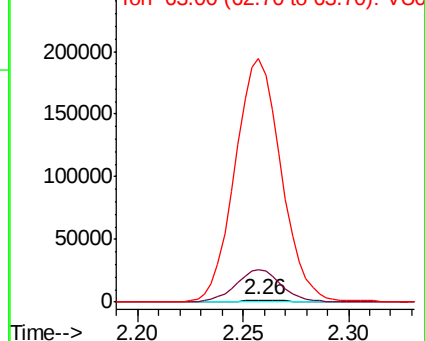
63 14141.5 113.8 211.3#

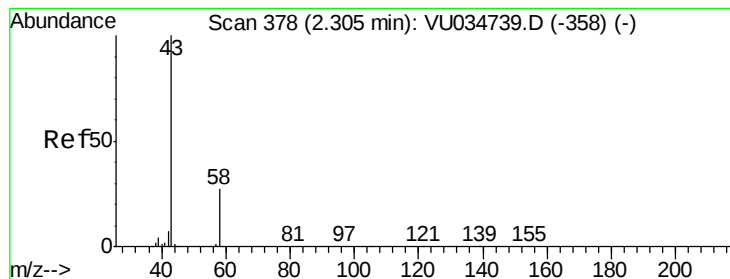


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 38.278 ug/L

RT: 2.31 min Scan# 378

Delta R.T. 0.00 min

Lab File: VU034749.D

Acq: 23 Sep 2019 21:42

Instrument :

MSVOA_U

ClientSampleId :

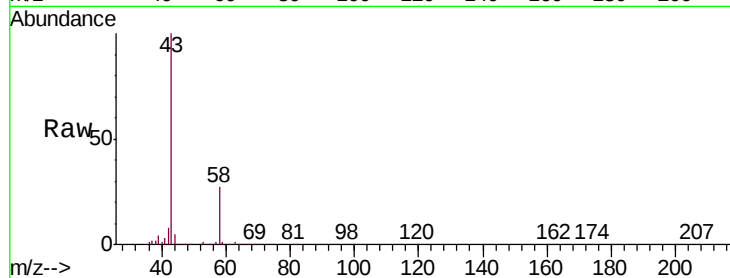
BFDG7

Tgt Ion: 43 Resp: 163109

Ion Ratio Lower Upper

43 100

58 25.7 0.0 53.4



Abundance Ion 43.00 (42.70 to 43.70): VU034739.D (-358) (-)

Ion 58.00 (57.70 to 58.70): VU034739.D (-358) (-)

120000

100000

80000

60000

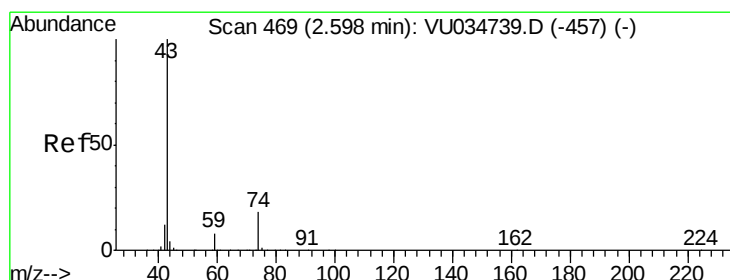
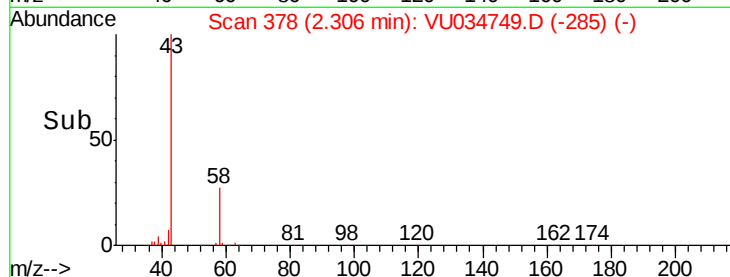
40000

20000

0

2.25 2.30 2.35 2.40

Time-->



#15

Methyl Acetate

Concen: 1.232 ug/L

RT: 2.61 min Scan# 473

Delta R.T. 0.01 min

Lab File: VU034749.D

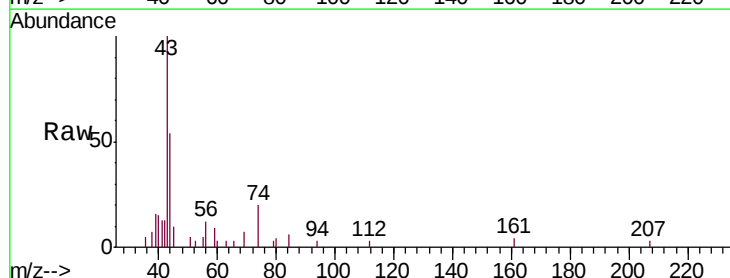
Acq: 23 Sep 2019 21:42

Tgt Ion: 43 Resp: 7015

Ion Ratio Lower Upper

43 100

74 19.2 14.4 21.6



Abundance Ion 43.00 (42.70 to 43.70): VU034739.D (-457) (-)

Ion 74.00 (73.70 to 74.70): VU034739.D (-457) (-)

4000

3000

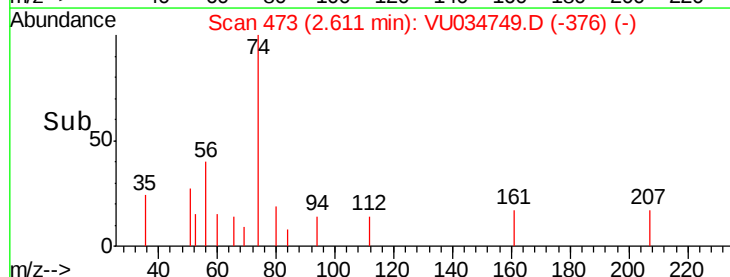
2000

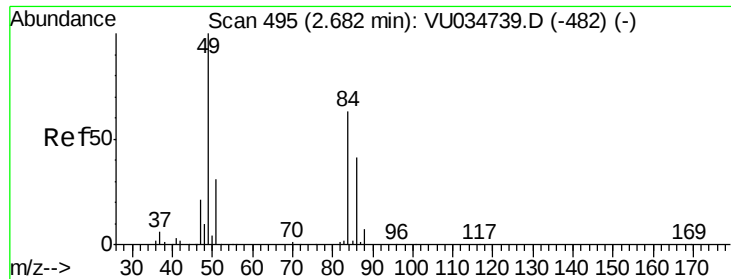
1000

0

2.55 2.60 2.65

Time-->

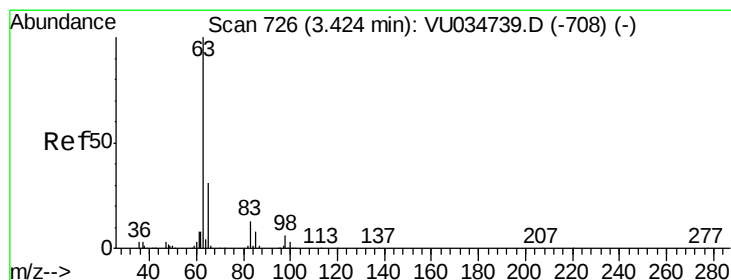
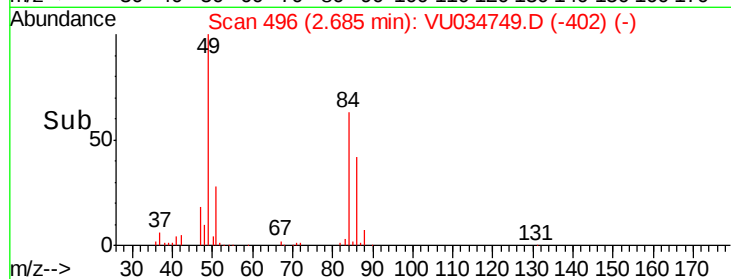
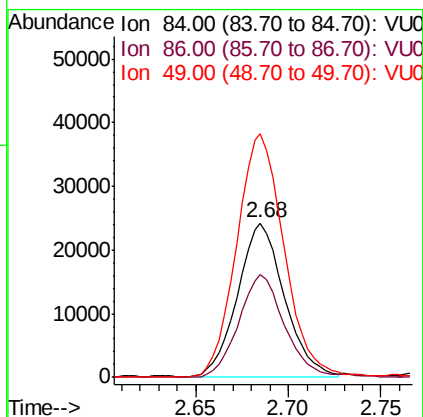
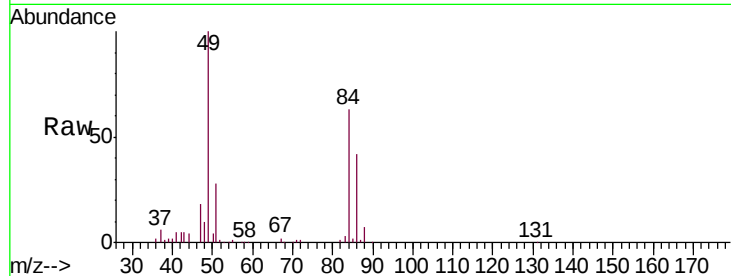




#16
Methylene chloride
Concen: 11.055 ug/L
RT: 2.68 min Scan# 496
Delta R.T. 0.00 min
Lab File: VU034749.D
Acq: 23 Sep 2019 21:42

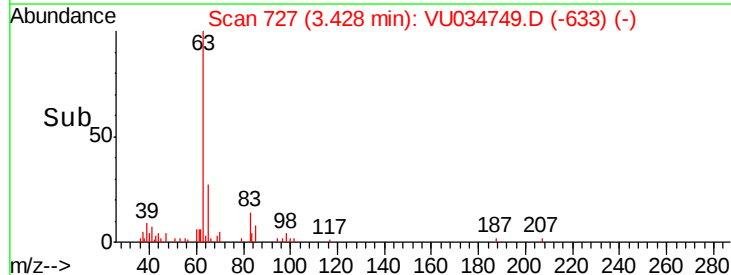
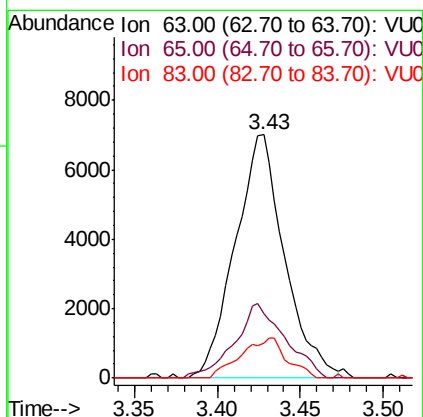
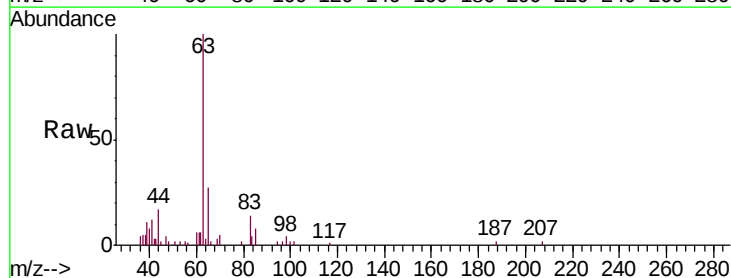
Instrument :
MSVOA_U
ClientSampleID :
BFDG7

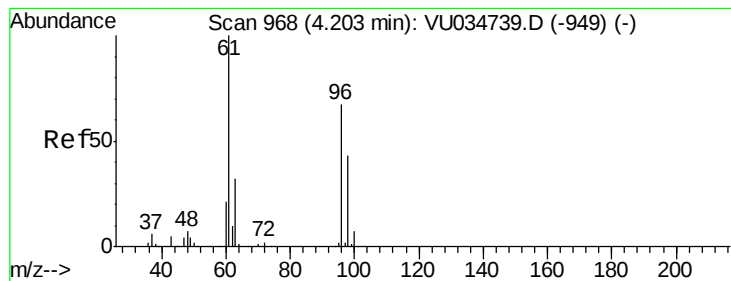
Tgt Ion: 84 Resp: 42773
Ion Ratio Lower Upper
84 100
86 66.3 43.0 80.0
49 157.8 109.7 203.7



#19
1,1-Dichloroethane
Concen: 1.892 ug/L
RT: 3.43 min Scan# 727
Delta R.T. 0.00 min
Lab File: VU034749.D
Acq: 23 Sep 2019 21:42

Tgt Ion: 63 Resp: 14493
Ion Ratio Lower Upper
63 100
65 26.7 22.0 40.8
83 14.3 8.9 16.5





#20

cis-1,2-Dichloroethene

Concen: 9.600 ug/L

RT: 4.20 min Scan# 967

Delta R.T. -0.00 min

Lab File: VU034749.D

Acq: 23 Sep 2019 21:42

Instrument :

MSVOA_U

ClientSampleId :

BFDG7

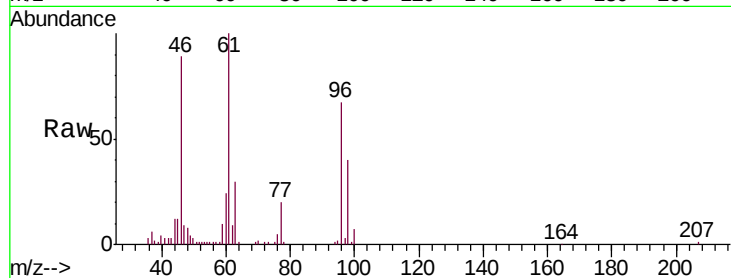
Tgt Ion: 96 Resp: 37487

Ion Ratio Lower Upper

96 100

61 149.5 108.8 202.2

68 0.0 0.0 0.0

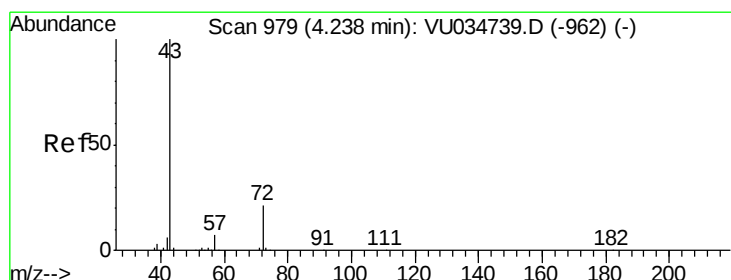
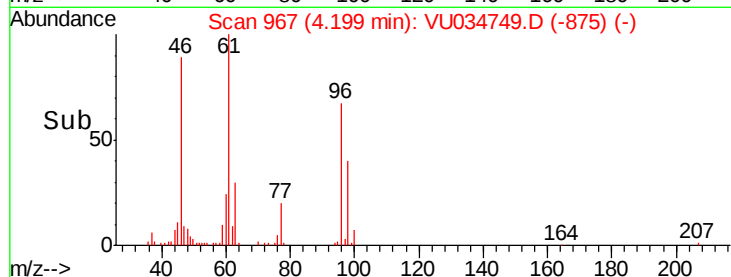
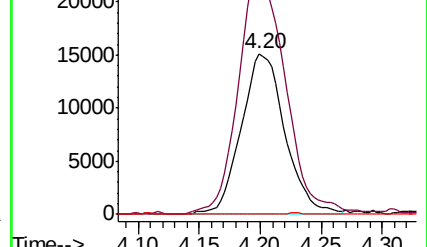


Abundance Ion 96.00 (95.70 to 96.70): VU034739.D (-949) (-)

Ion 61.00 (60.70 to 61.70): VU034739.D (-949) (-)

Ion 68.00 (67.70 to 68.70): VU034739.D (-949) (-)

Time-->



#22

2-Butanone

Concen: 12.424 ug/L

RT: 4.25 min Scan# 982

Delta R.T. 0.01 min

Lab File: VU034749.D

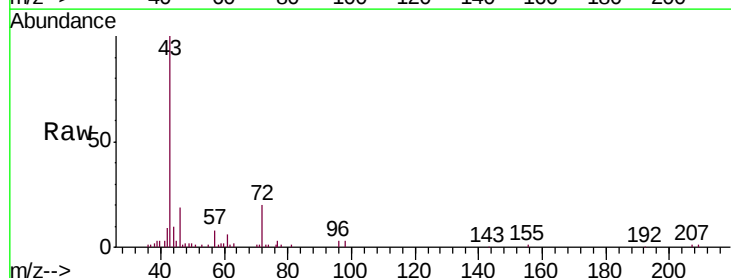
Acq: 23 Sep 2019 21:42

Tgt Ion: 43 Resp: 62980

Ion Ratio Lower Upper

43 100

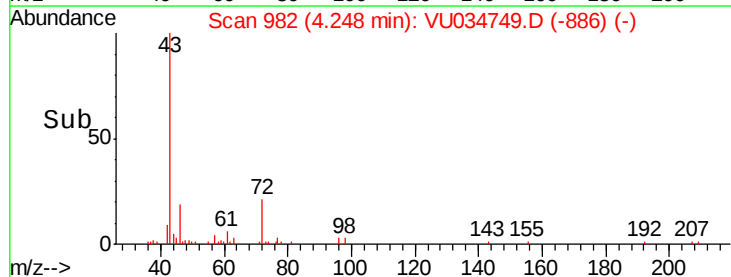
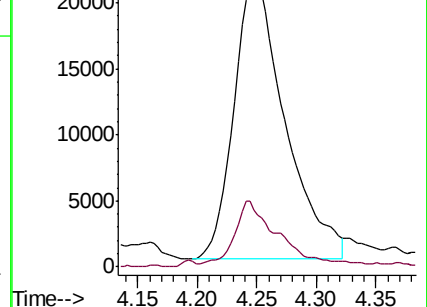
72 12.9 10.2 30.6

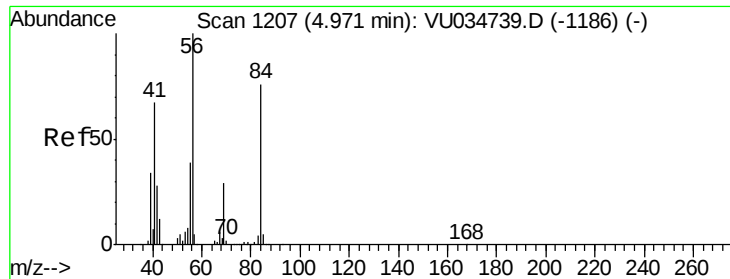


Abundance Ion 43.00 (42.70 to 43.70): VU034739.D (-962) (-)

Ion 72.00 (71.70 to 72.70): VU034739.D (-962) (-)

Time-->

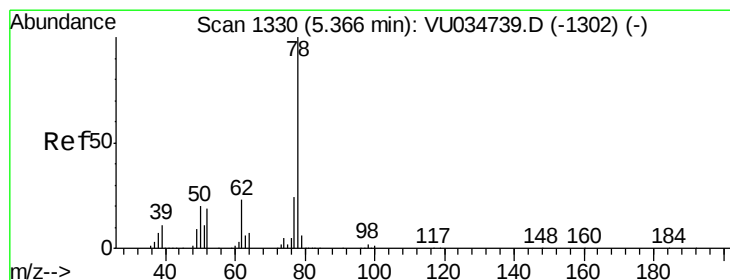
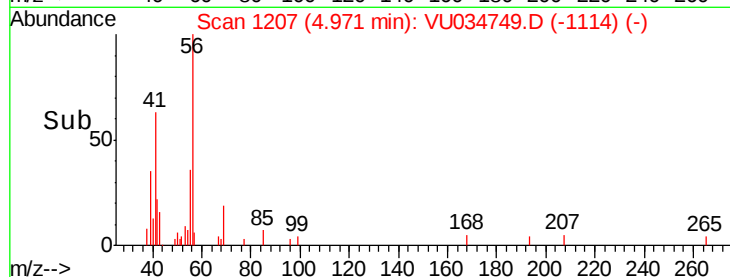
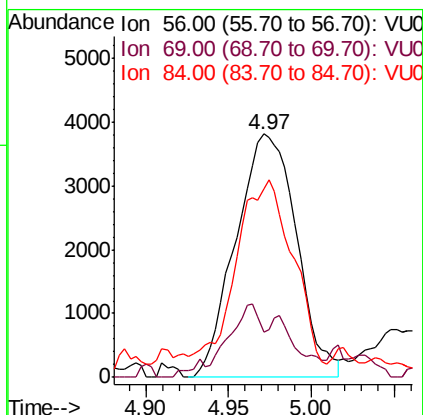
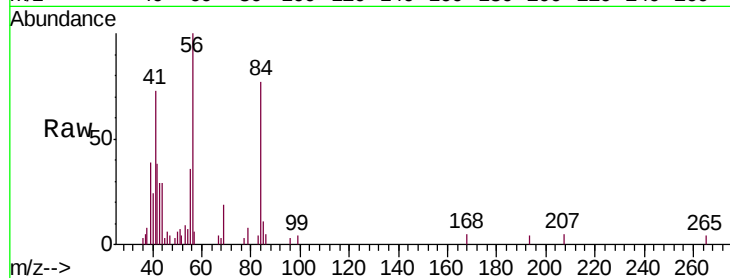




#29
Cyclohexane
Concen: 1.327 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. 0.00 min
Lab File: VU034749.D
Acq: 23 Sep 2019 21:42

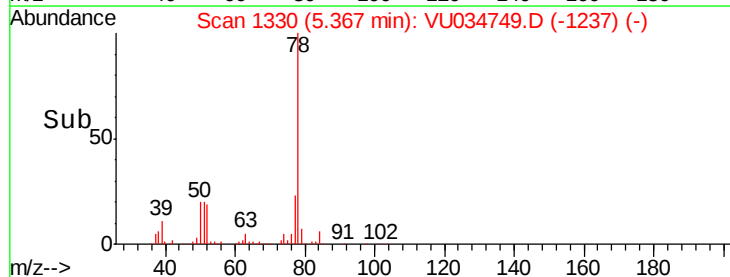
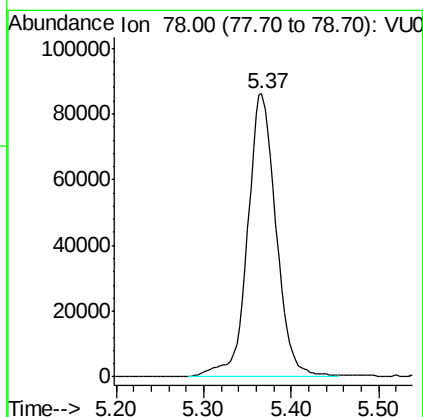
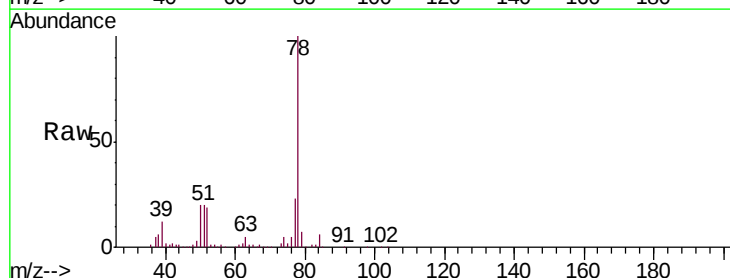
Instrument :
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BFDG7

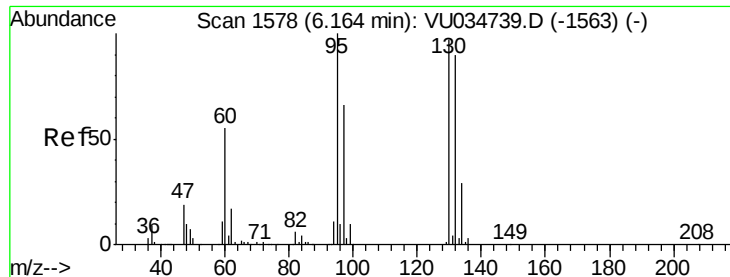
Tgt Ion: 56 Resp: 9718
Ion Ratio Lower Upper
56 100
69 14.0 21.7 32.5#
84 27.5 58.8 88.2#



#33
Benzene
Concen: 12.641 ug/L
RT: 5.37 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VU034749.D
Acq: 23 Sep 2019 21:42

Tgt Ion: 78 Resp: 194491





#34

Trichloroethene

Concen: 8.596 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU034749.D

Acq: 23 Sep 2019 21:42

Instrument :

MSVOA_U

ClientSampleId :

BFDG7

Tgt Ion: 95 Resp: 32665

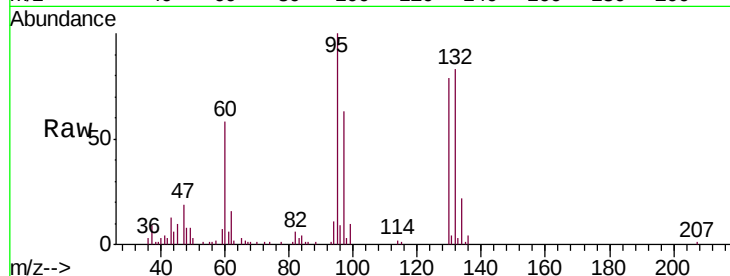
Ion Ratio Lower Upper

95 100

97 63.1 43.7 81.1

132 83.0 61.0 113.2

130 79.4 65.7 121.9

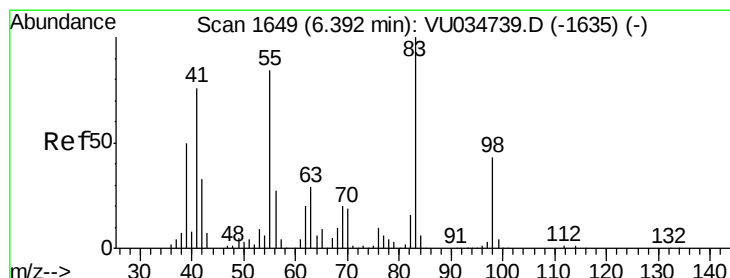
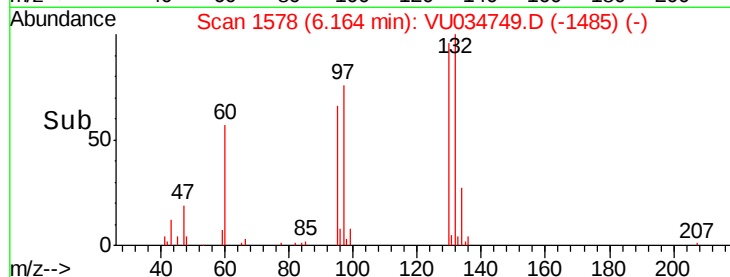
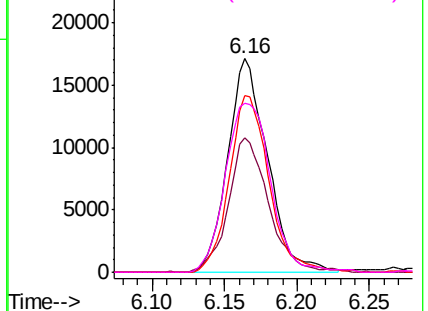


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 1.456 ug/L

RT: 6.39 min Scan# 1648

Delta R.T. -0.00 min

Lab File: VU034749.D

Acq: 23 Sep 2019 21:42

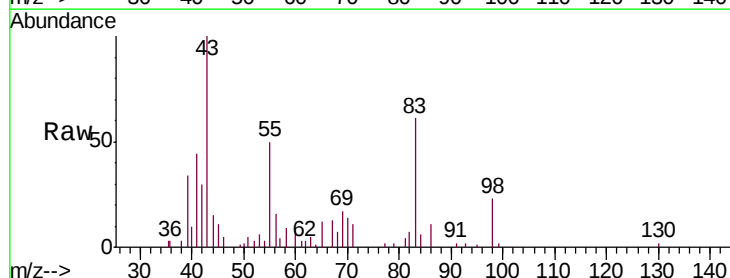
Tgt Ion: 83 Resp: 9391

Ion Ratio Lower Upper

83 100

55 97.3 71.6 107.4

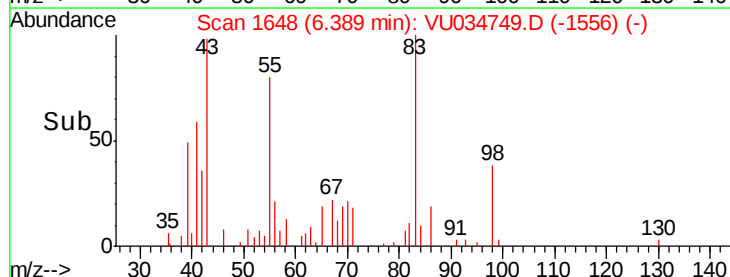
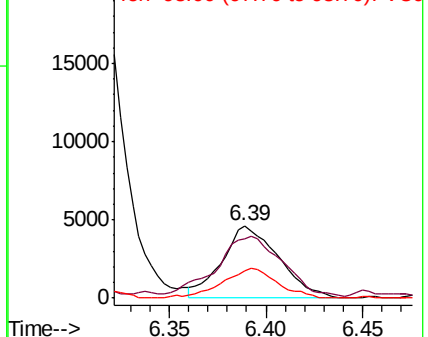
98 38.8 35.7 53.5

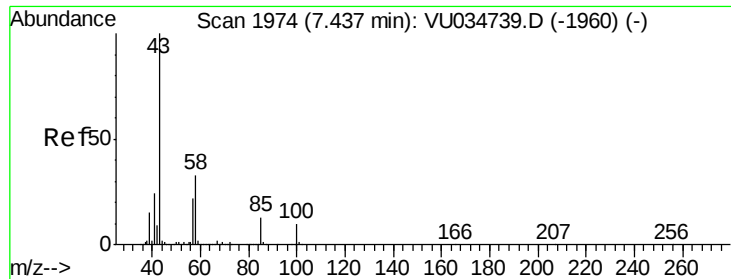


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

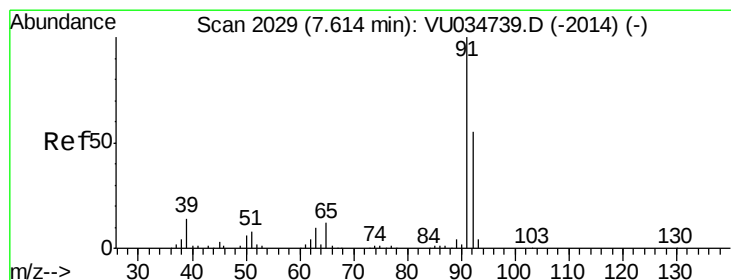
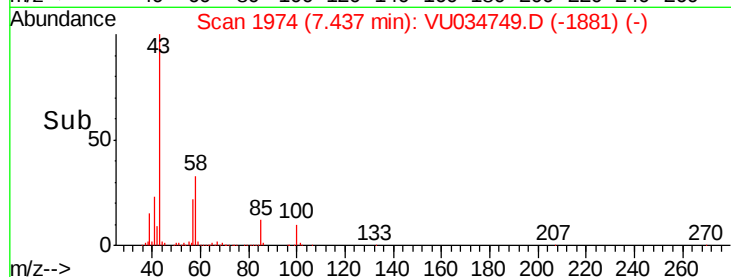
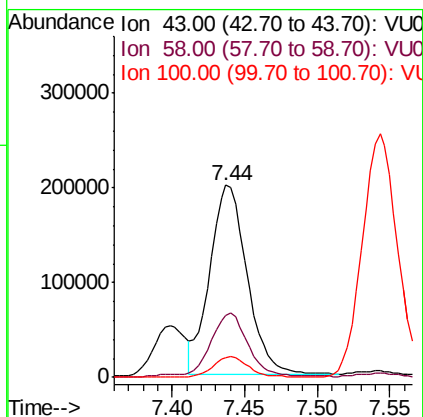
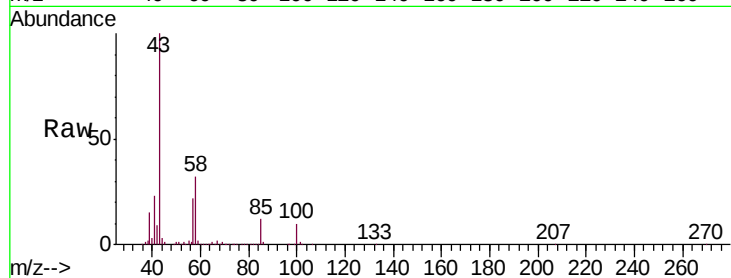




#40
 4-Methyl-2-pentanone
 Concen: 41.017 ug/L
 RT: 7.44 min Scan# 1974
 Delta R.T. 0.00 min
 Lab File: VU034749.D
 Acq: 23 Sep 2019 21:42

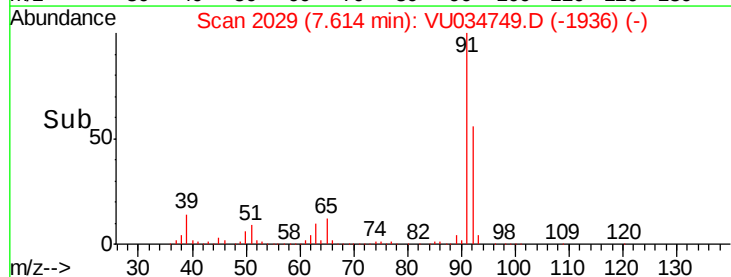
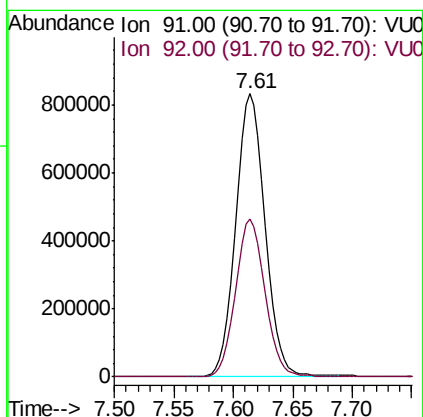
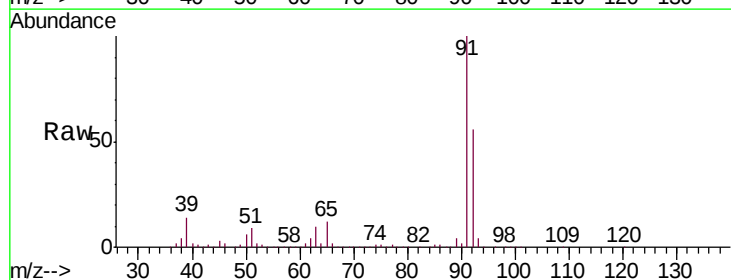
Instrument :
 MSVOA_U
 ClientSampleId :
 BFDG7

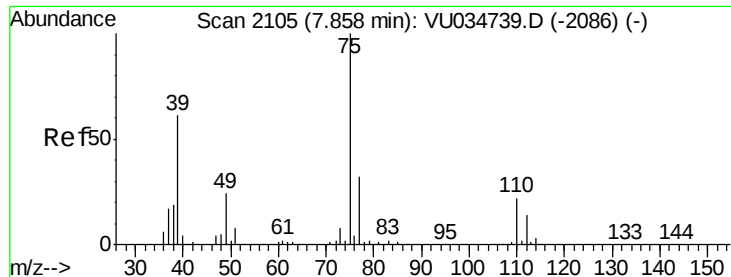
Tgt Ion: 43 Resp: 358758
 Ion Ratio Lower Upper
 43 100
 58 32.5 25.2 37.8
 100 10.3 7.7 11.5



#42
 Toluene
 Concen: 85.572 ug/L
 RT: 7.61 min Scan# 2029
 Delta R.T. 0.00 min
 Lab File: VU034749.D
 Acq: 23 Sep 2019 21:42

Tgt Ion: 91 Resp: 1422900
 Ion Ratio Lower Upper
 91 100
 92 55.8 38.2 71.0





#44

trans-1,3-Dichloropropene

Concen: 1.059 ug/L

RT: 7.83 min Scan# 2095

Delta R.T. -0.03 min

Lab File: VU034749.D

Acq: 23 Sep 2019 21:42

Instrument :

MSVOA_U

ClientSampleId :

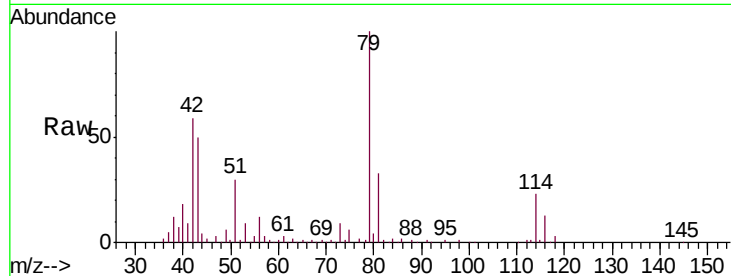
BFDG7

Tgt Ion: 75 Resp: 6573

Ion Ratio Lower Upper

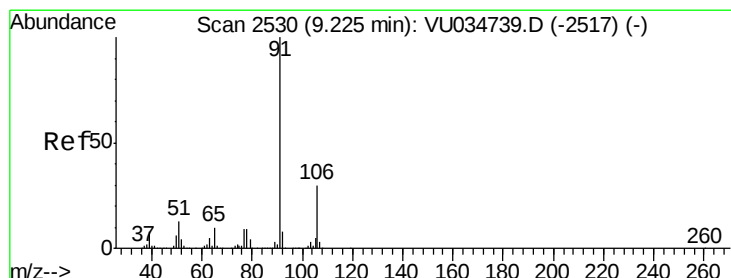
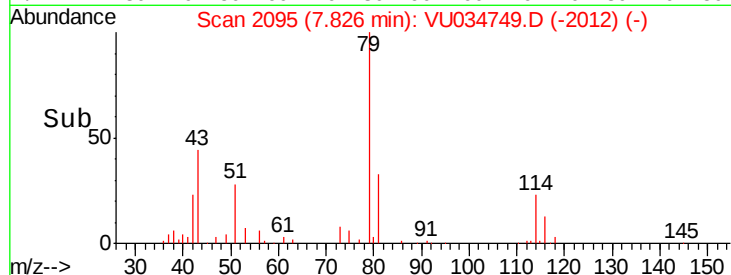
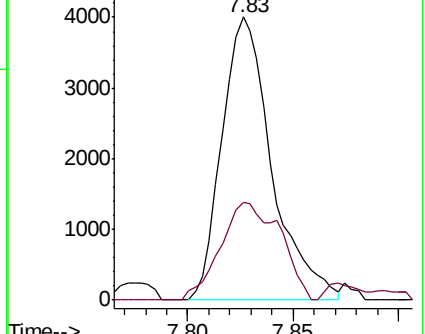
75 100

77 34.7 21.4 39.8



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#52

Ethylbenzene

Concen: 19.828 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. 0.00 min

Lab File: VU034749.D

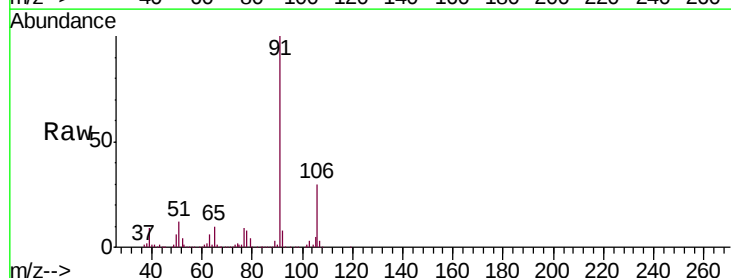
Acq: 23 Sep 2019 21:42

Tgt Ion: 91 Resp: 371280

Ion Ratio Lower Upper

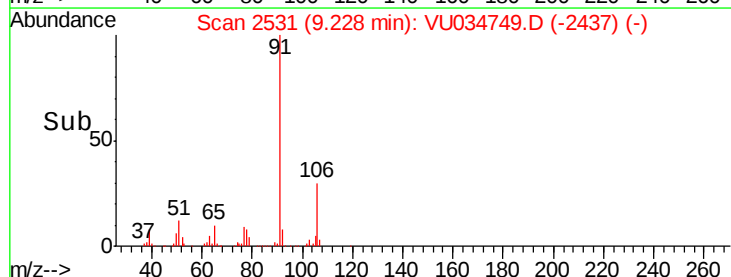
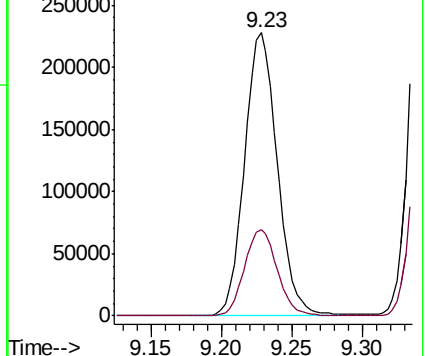
91 100

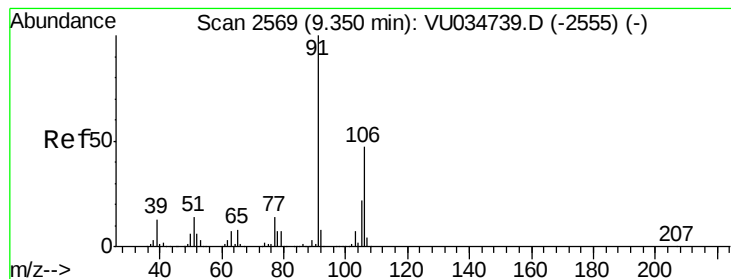
106 30.3 20.6 38.4



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 77.788 ug/L

RT: 9.35 min Scan# 2569

Delta R.T. 0.00 min

Lab File: VU034749.D

Acq: 23 Sep 2019 21:42

Instrument :

MSVOA_U

ClientSampleId :

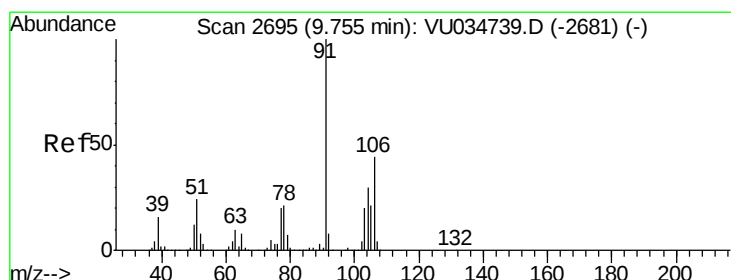
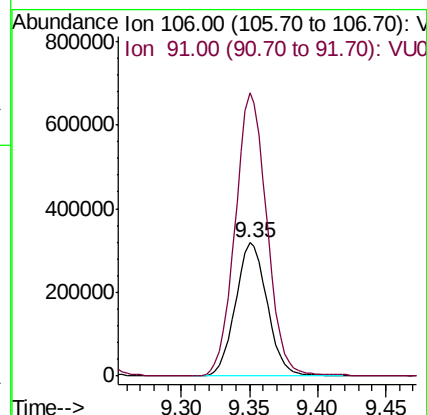
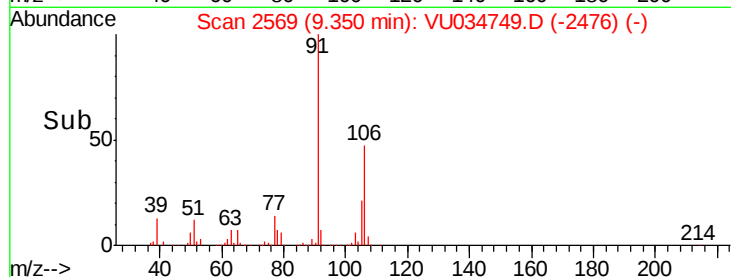
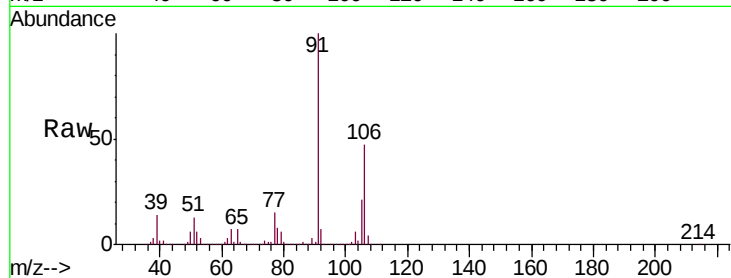
BFDG7

Tgt Ion:106 Resp: 515905

Ion Ratio Lower Upper

106 100

91 212.0 146.9 272.7



#54

o-xylene

Concen: 51.368 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VU034749.D

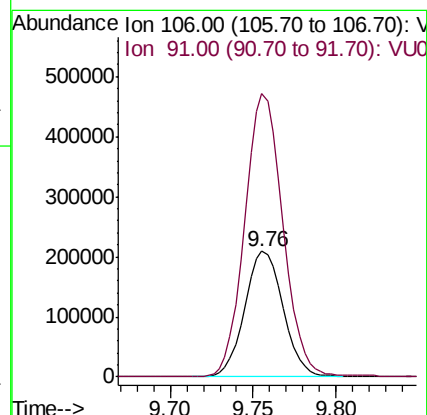
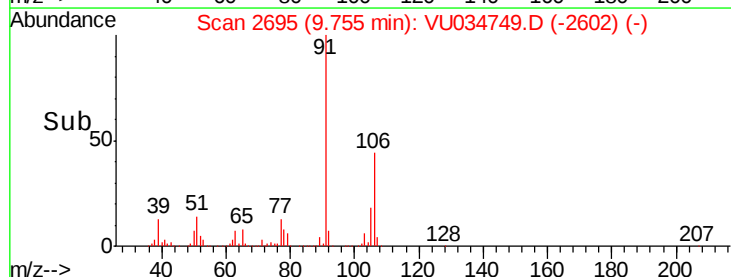
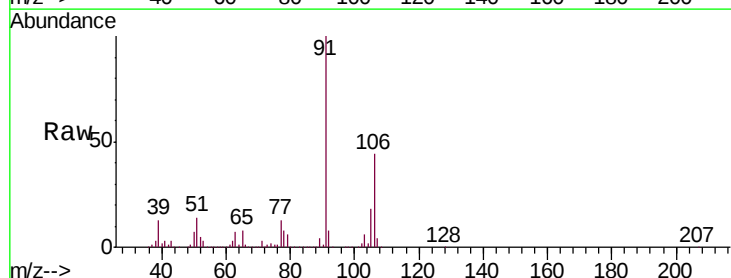
Acq: 23 Sep 2019 21:42

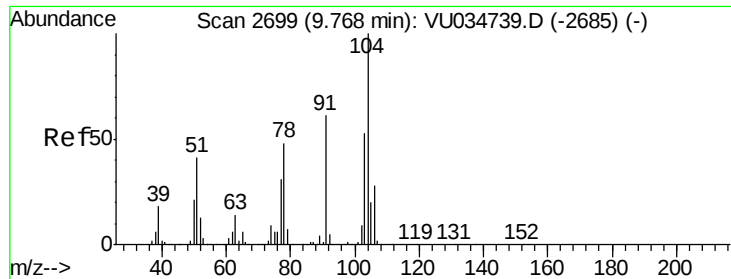
Tgt Ion:106 Resp: 336965

Ion Ratio Lower Upper

106 100

91 225.5 155.6 289.0





#55

Styrene

Concen: 1.786 ug/L

RT: 9.76 min Scan# 2696

Delta R.T. -0.01 min

Lab File: VU034749.D

Acq: 23 Sep 2019 21:42

Instrument :

MSVOA_U

ClientSampleId :

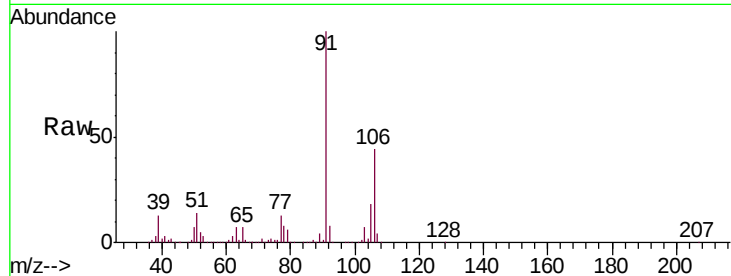
BFDG7

Tgt Ion:104 Resp: 19828

Ion Ratio Lower Upper

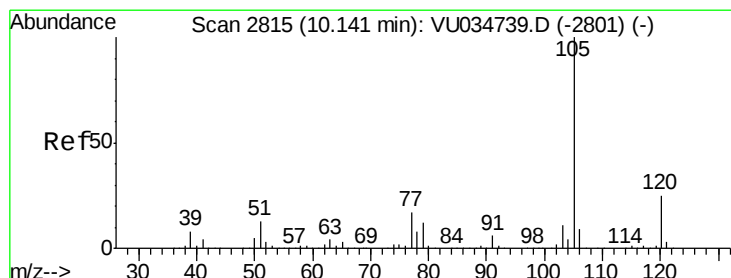
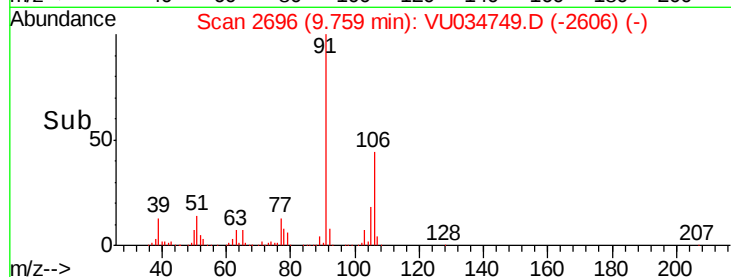
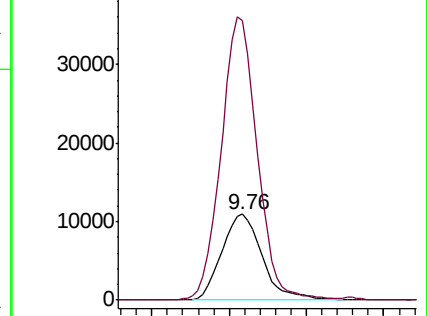
104 100

78 326.8 35.1 65.3#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0



#56

Isopropylbenzene

Concen: 2.032 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. 0.00 min

Lab File: VU034749.D

Acq: 23 Sep 2019 21:42

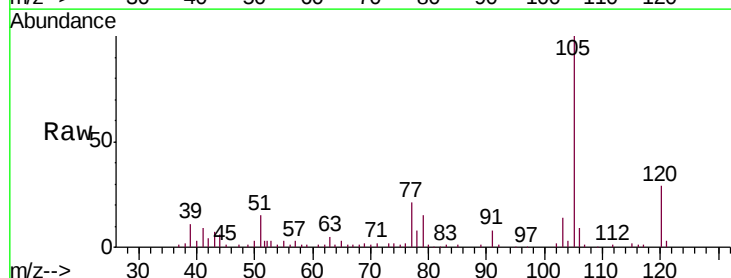
Tgt Ion:105 Resp: 35940

Ion Ratio Lower Upper

105 100

120 26.9 20.4 30.6

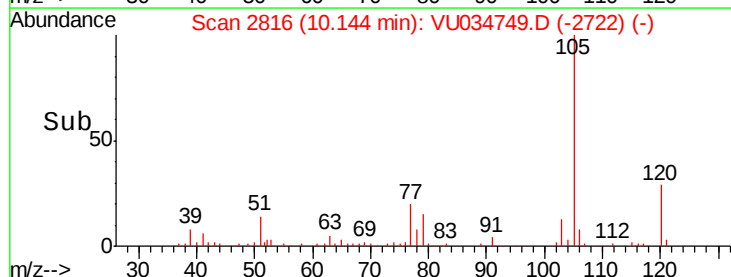
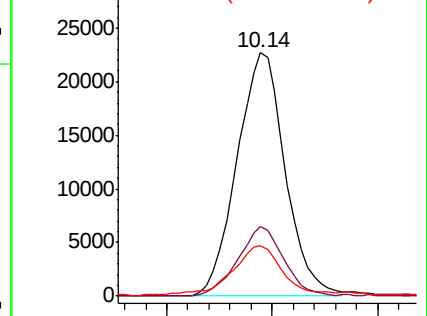
77 20.2 14.2 21.4

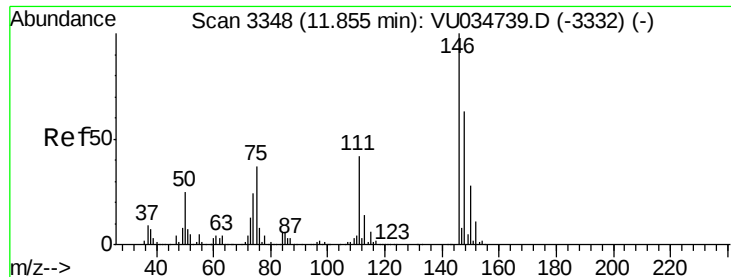


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU0





#65

1,2-Dichlorobenzene

Concen: 6.239 ug/L

RT: 11.86 min Scan# 3348

Delta R.T. 0.00 min

Lab File: VU034749.D

Acq: 23 Sep 2019 21:42

Instrument :

MSVOA_U

ClientSampleId :

BFDG7

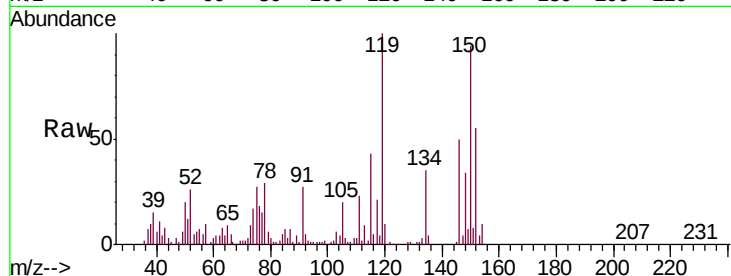
Tgt Ion:146 Resp: 47078

Ion Ratio Lower Upper

146 100

111 46.2 35.2 52.8

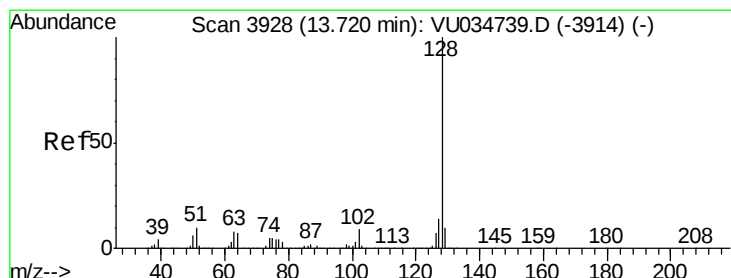
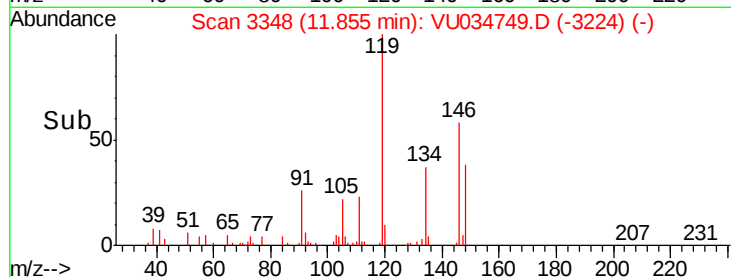
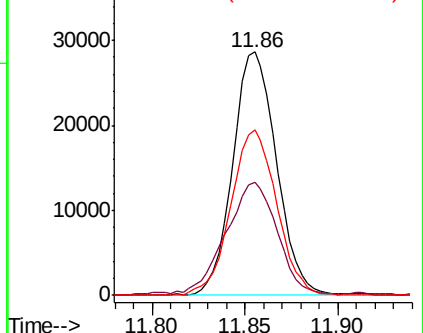
148 68.0 53.0 79.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#69

Naphthalene

Concen: 48.306 ug/L

RT: 13.72 min Scan# 3928

Delta R.T. 0.00 min

Lab File: VU034749.D

Acq: 23 Sep 2019 21:42

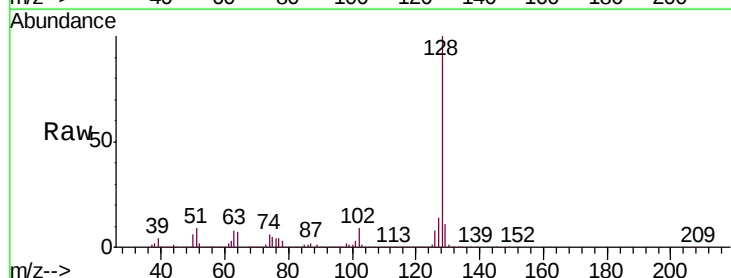
Tgt Ion:128 Resp: 658035

Ion Ratio Lower Upper

128 100

127 13.7 10.8 16.2

129 11.1 8.6 12.8



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

