

Data File : VU034820.D
Acq On : 25 Sep 2019 22:18
Operator : JC/SP
Sample : K4983-10
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 31 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFDJ3

Quant Time: Sep 26 07:01:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Sep 26 06:56:48 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	456457	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	437911	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	213520	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	189421	40.54	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	81.08%
7) Chloroethane-d5	1.67	69	167430	46.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	92.72%
11) 1,1-Dichloroethene-d2	2.26	63	254510	32.16	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	64.32%
21) 2-Butanone-d5	4.15	46	415050	115.89	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	115.89%
24) Chloroform-d	4.62	84	326151	48.01	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.02%
26) 1,2-Dichloroethane-d4	5.29	65	227883	45.63	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.26%
32) Benzene-d6	5.32	84	687120	50.62	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.24%
36) 1,2-Dichloropropane-d6	6.31	67	245891	51.83	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	103.66%
41) Toluene-d8	7.54	98	657105	50.89	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.78%
43) trans-1,3-Dichloropropene-	7.83	79	105722	46.53	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.06%
47) 2-Hexanone-d5	8.29	63	286180	120.10	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	120.10%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	337381	51.25	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	102.50%
64) 1,2-Dichlorobenzene-d4	11.84	152	241002	53.83	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	107.66%

Target Compounds

						Qvalue
10) 1,1,2-Trichloro-1,2,2-trif	2.26	101	2364	0.760	ug/L #	23
13) Acetone	2.31	43	194781	46.754	ug/L	94
15) Methyl Acetate	2.61	43	5432	0.976	ug/L #	81
16) Methylene chloride	2.68	84	51353	13.575	ug/L	94
22) 2-Butanone	4.25	43	70408	14.206	ug/L	97
33) Benzene	5.37	78	117679	7.748	ug/L	100
35) Methylcyclohexane	6.39	83	6648	1.044	ug/L #	69
40) 4-Methyl-2-pentanone	7.40	43	85084	9.855	ug/L #	59
42) Toluene	7.62	91	250507	15.262	ug/L	97
48) 2-Hexanone	8.29	43	162883	24.155	ug/L #	52
51) Chlorobenzene	9.10	112	24954	2.501	ug/L	92
52) Ethylbenzene	9.23	91	842887	45.602	ug/L	98
53) m,p-Xylene	9.35	106	1160351	177.241	ug/L	99
54) o-xylene	9.76	106	685371	105.845	ug/L	94
55) Styrene	9.76	104	34690	3.165	ug/L #	1
56) Isopropylbenzene	10.14	105	75371	4.317	ug/L	97
62) 1,3-Dichlorobenzene	11.40	146	11235	1.519	ug/L	88

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092519\
Quantitation Report (Not Reviewed)

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Quant Title : VOC Analysis
QLast Update : Thu Sep 26 06:56:48 2019
Response via : Initial Calibration

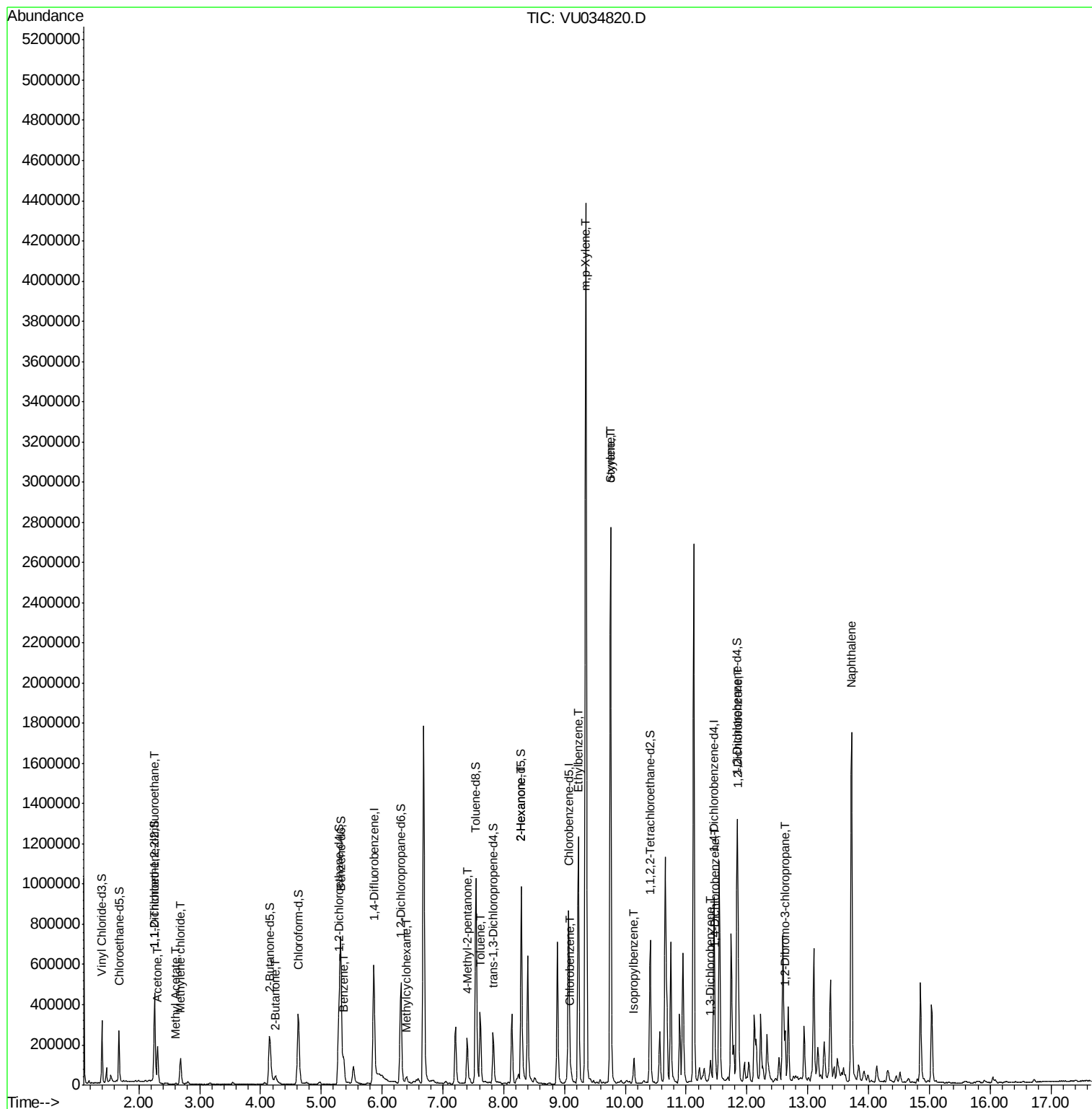
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,4-Dichlorobenzene	11.48	146	23355	3.101	ug/L	92
65) 1,2-Dichlorobenzene	11.86	146	173309	23.197	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.62	75	2076	1.307	ug/L #	10
69) Naphthalene	13.72	128	1304059	96.687	ug/L	100

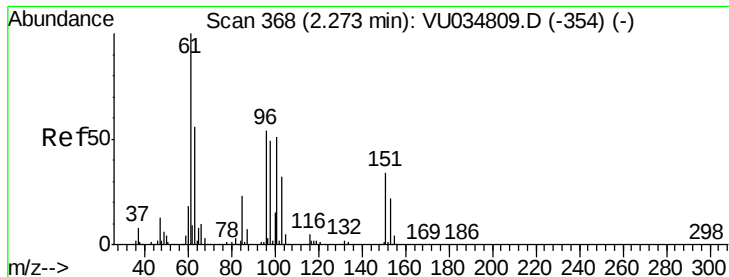
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.760 ug/L

RT: 2.26 min Scan# 363

Delta R.T. -0.02 min

Lab File: VU034820.D

Acq: 25 Sep 2019 22:18

Instrument :

MSVOA_U

ClientSampleId :

BFDJ3

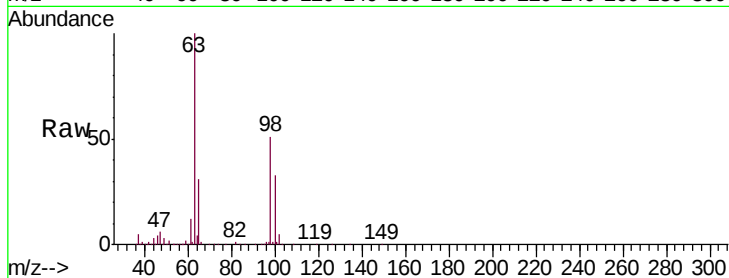
Tgt Ion:101 Resp: 2364

Ion Ratio Lower Upper

101 100

85 0.0 39.0 58.4#

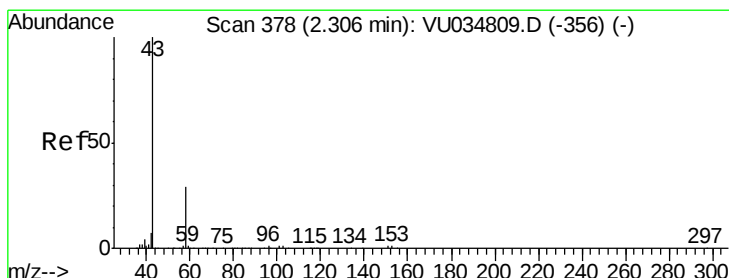
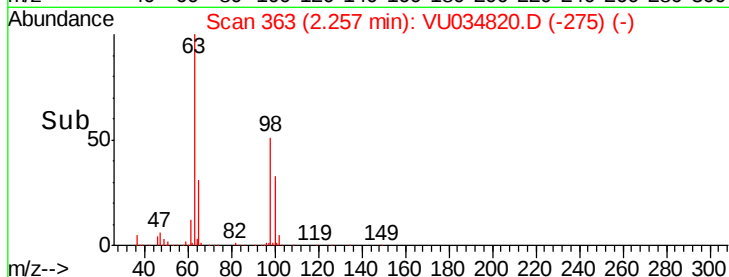
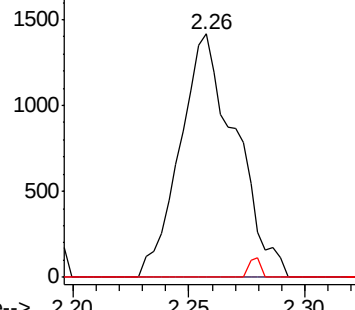
151 1.7 52.8 79.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#13

Acetone

Concen: 46.754 ug/L

RT: 2.31 min Scan# 378

Delta R.T. 0.00 min

Lab File: VU034820.D

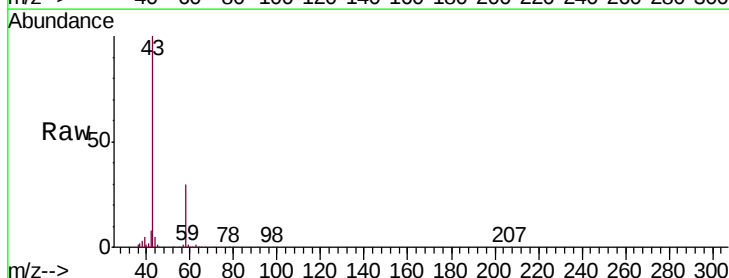
Acq: 25 Sep 2019 22:18

Tgt Ion: 43 Resp: 194781

Ion Ratio Lower Upper

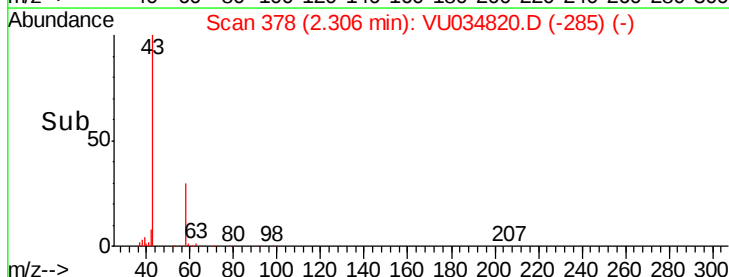
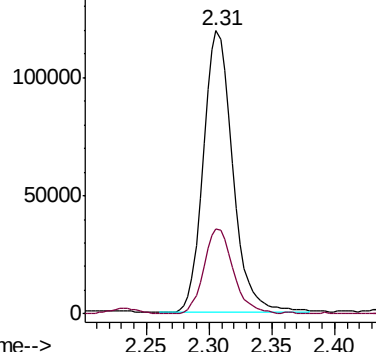
43 100

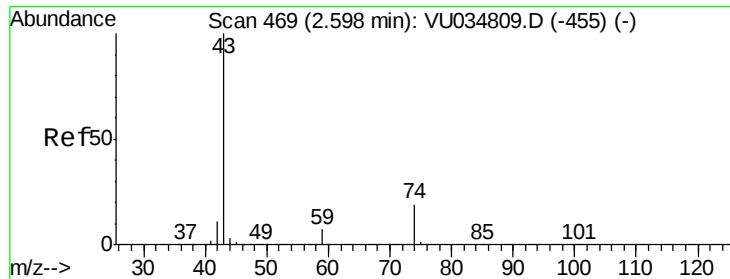
58 30.0 0.0 53.4



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

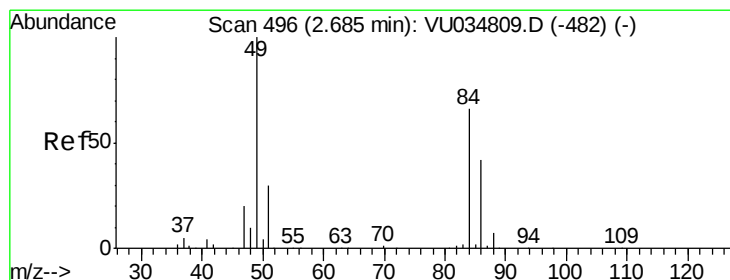
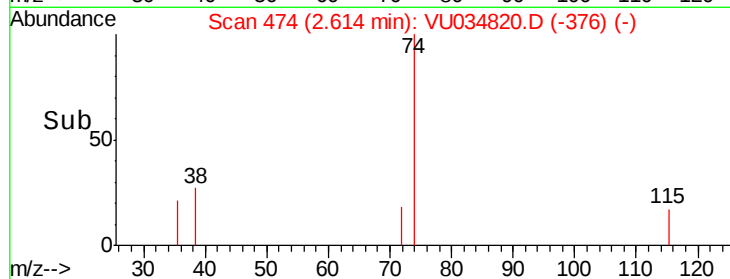
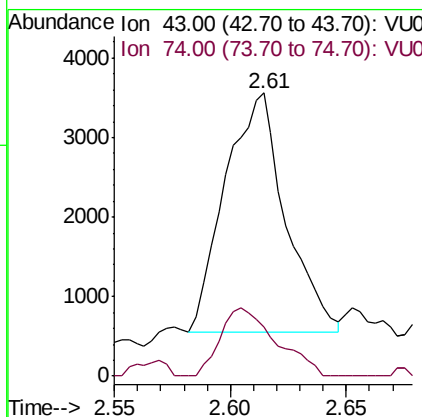
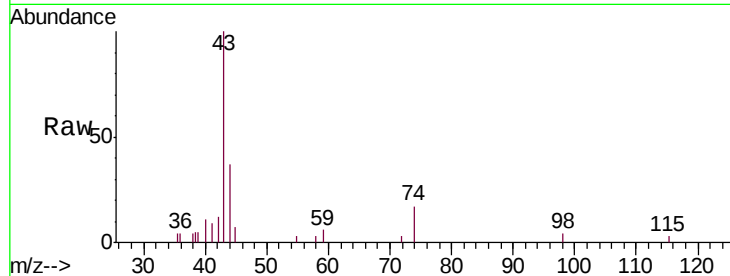




#15
Methyl Acetate
Concen: 0.976 ug/L
RT: 2.61 min Scan# 474
Delta R.T. 0.02 min
Lab File: VU034820.D
Acq: 25 Sep 2019 22:18

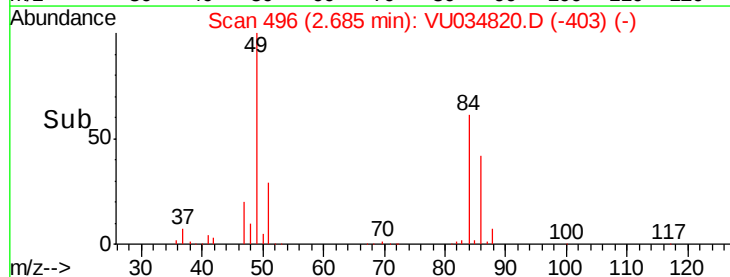
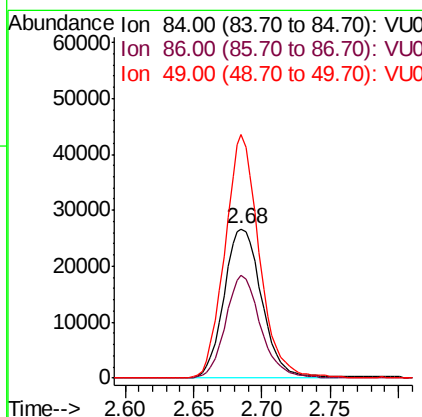
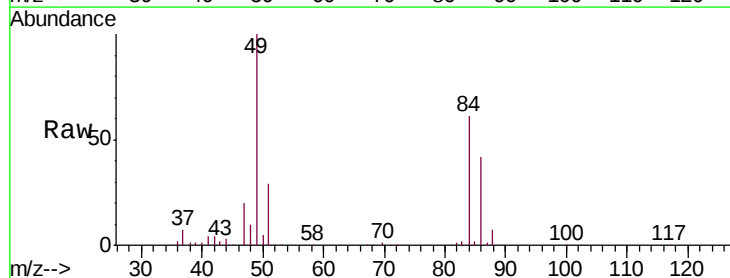
Instrument :
MSVOA_U
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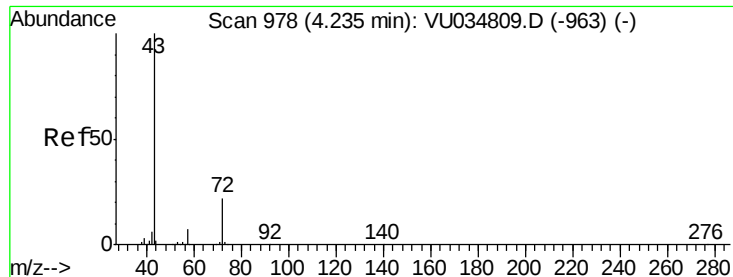
Tgt Ion: 43 Resp: 5432
Ion Ratio Lower Upper
43 100
74 26.5 14.4 21.6#



#16
Methylene chloride
Concen: 13.575 ug/L
RT: 2.68 min Scan# 496
Delta R.T. 0.00 min
Lab File: VU034820.D
Acq: 25 Sep 2019 22:18

Tgt Ion: 84 Resp: 51353
Ion Ratio Lower Upper
84 100
86 68.6 43.0 80.0
49 163.5 109.7 203.7





#22

2-Butanone

Concen: 14.206 ug/L

RT: 4.25 min Scan# 982

Delta R.T. 0.01 min

Lab File: VU034820.D

Acq: 25 Sep 2019 22:18

Instrument :

MSVOA_U

ClientSampleId :

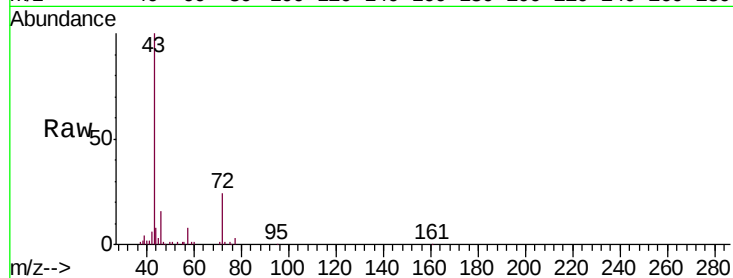
BFDJ3

Tgt Ion: 43 Resp: 70408

Ion Ratio Lower Upper

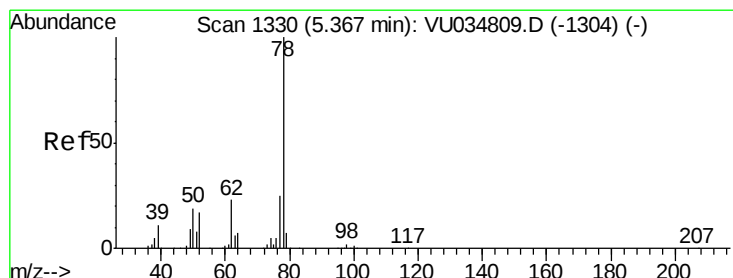
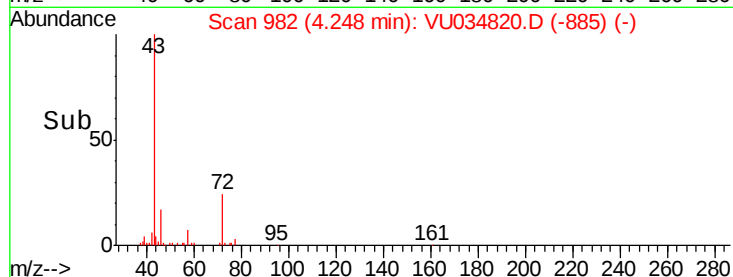
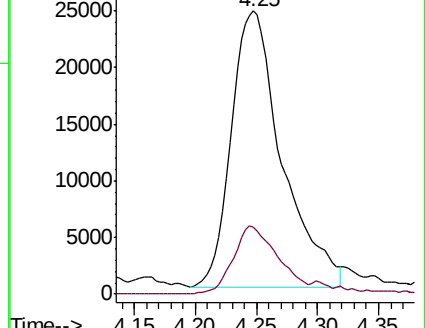
43 100

72 21.9 10.2 30.6



Abundance Ion 43.00 (42.70 to 43.70): VU034809.D (-963) (-)

Ion 72.00 (71.70 to 72.70): VU034809.D (-963) (-)



#33

Benzene

Concen: 7.748 ug/L

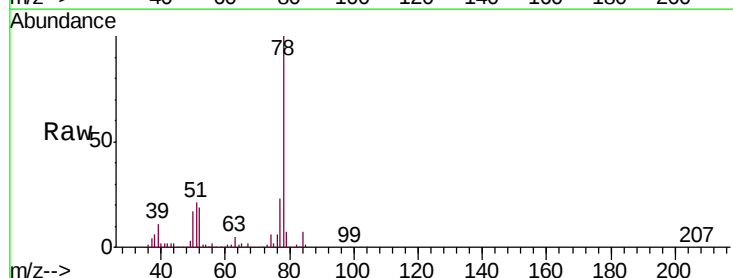
RT: 5.37 min Scan# 1331

Delta R.T. 0.00 min

Lab File: VU034820.D

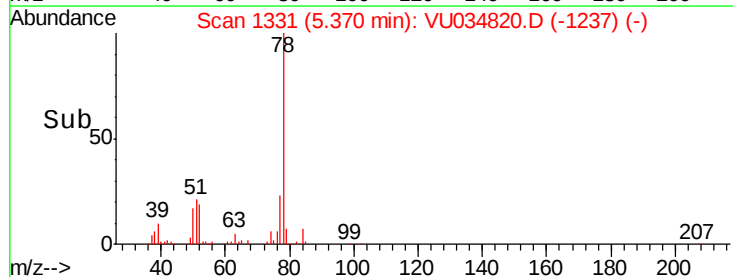
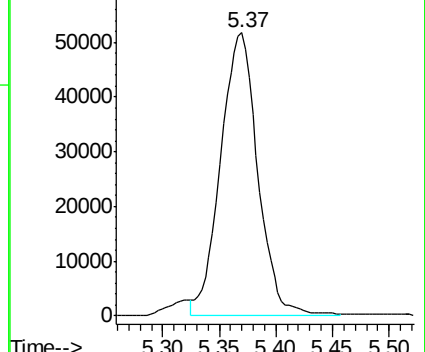
Acq: 25 Sep 2019 22:18

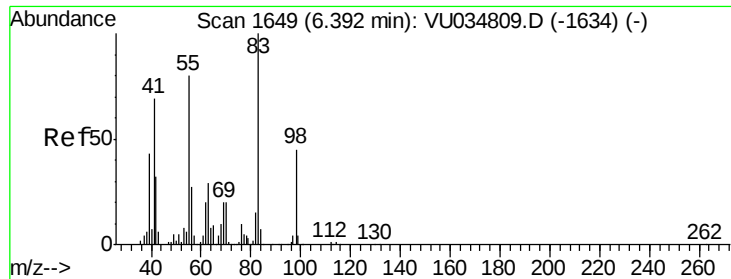
Tgt Ion: 78 Resp: 117679



Abundance Ion 78.00 (77.70 to 78.70): VU034809.D (-1304) (-)

Ion 78.00 (77.70 to 78.70): VU034809.D (-1304) (-)

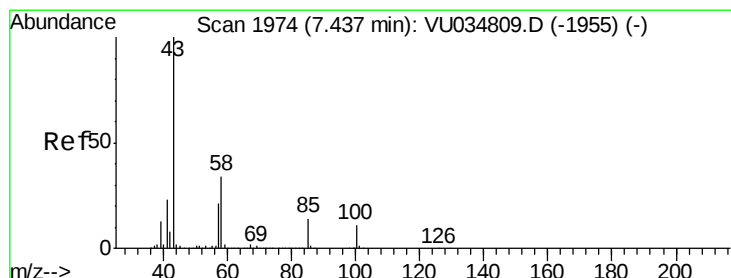
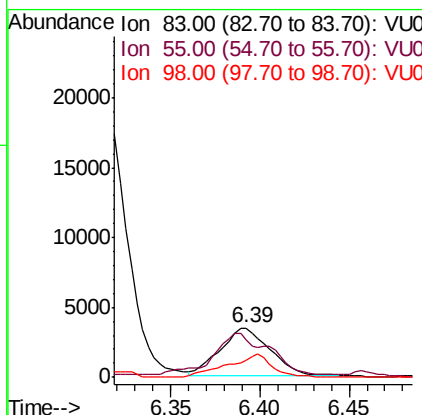
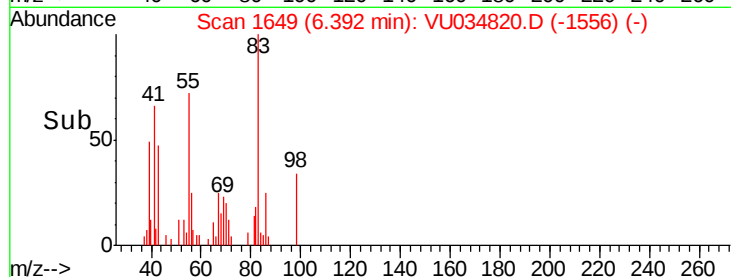
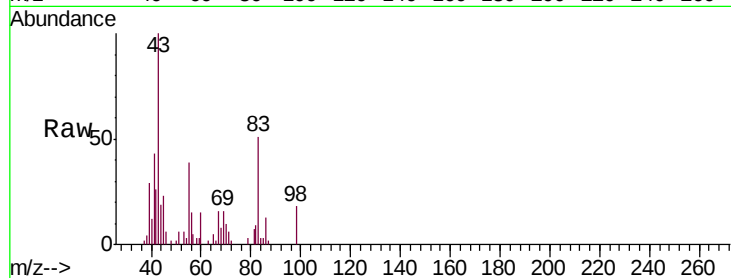




#35
Methylcyclohexane
Concen: 1.044 ug/L
RT: 6.39 min Scan# 1649
Delta R.T. 0.00 min
Lab File: VU034820.D
Acq: 25 Sep 2019 22:18

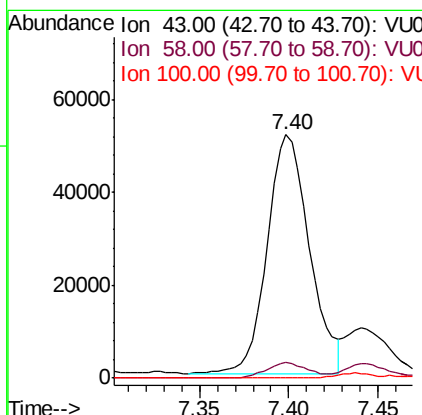
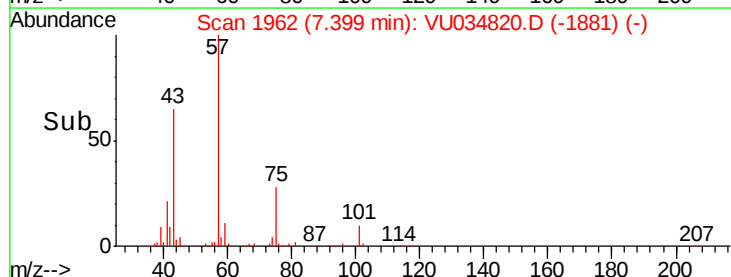
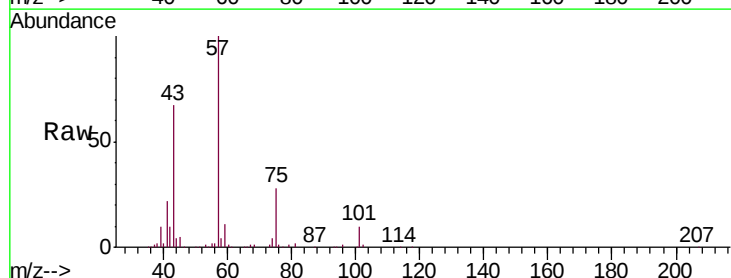
Instrument :
MSVOA_U
ClientSampleId :
BFDJ3

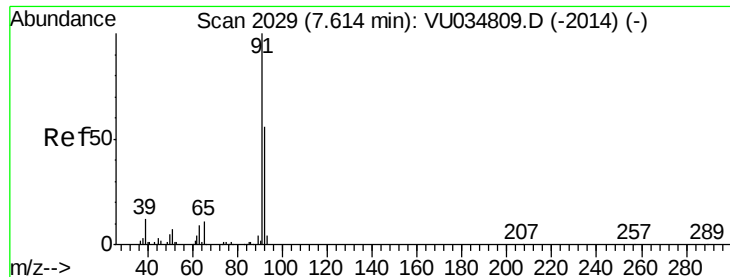
Tgt Ion: 83 Resp: 6648
Ion Ratio Lower Upper
83 100
55 46.4 71.6 107.4#
98 43.4 35.7 53.5



#40
4-Methyl-2-pentanone
Concen: 9.855 ug/L
RT: 7.40 min Scan# 1962
Delta R.T. -0.04 min
Lab File: VU034820.D
Acq: 25 Sep 2019 22:18

Tgt Ion: 43 Resp: 85084
Ion Ratio Lower Upper
43 100
58 6.3 25.2 37.8#
100 0.1 7.7 11.5#





#42

Toluene

Concen: 15.262 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU034820.D

Acq: 25 Sep 2019 22:18

Instrument :

MSVOA_U

ClientSampleId :

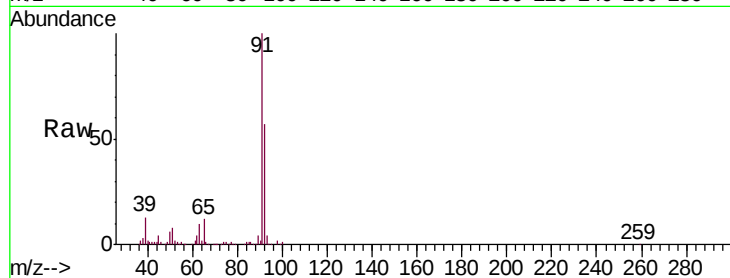
BFDJ3

Tgt Ion: 91 Resp: 250507

Ion Ratio Lower Upper

91 100

92 56.8 38.2 71.0



Abundance Ion 91.00 (90.70 to 91.70): VU034809.D (-2014) (-)

Ion 92.00 (91.70 to 92.70): VU034809.D (-2014) (-)

7.62

150000

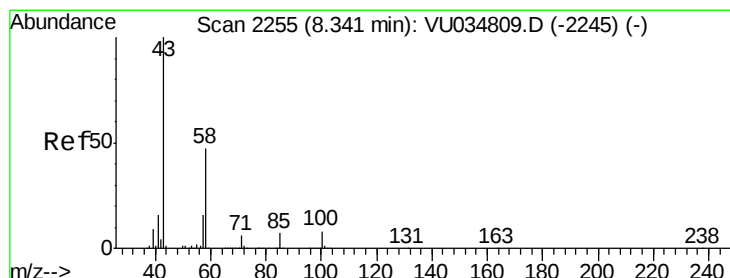
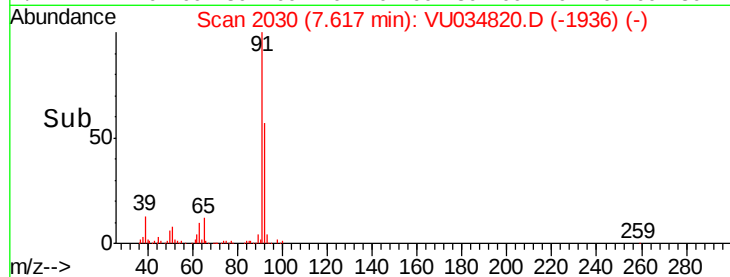
100000

50000

0

7.55 7.60 7.65 7.70

Time-->



#48

2-Hexanone

Concen: 24.155 ug/L

RT: 8.29 min Scan# 2239

Delta R.T. -0.05 min

Lab File: VU034820.D

Acq: 25 Sep 2019 22:18

Tgt Ion: 43 Resp: 162883

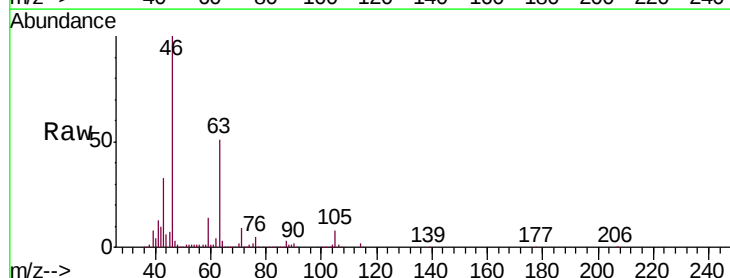
Ion Ratio Lower Upper

43 100

58 5.2 35.3 52.9#

57 4.2 12.1 18.1#

100 0.0 6.2 9.4#



Abundance Ion 43.00 (42.70 to 43.70): VU034809.D (-2245) (-)

Ion 58.00 (57.70 to 58.70): VU034809.D (-2245) (-)

Ion 57.00 (56.70 to 57.70): VU034809.D (-2245) (-)

Ion 100.00 (99.70 to 100.70): VU034809.D (-2245) (-)

8.29

150000

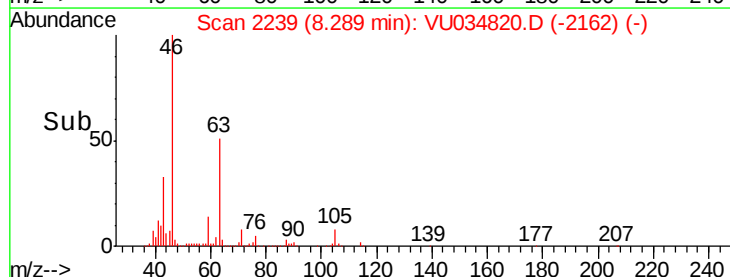
100000

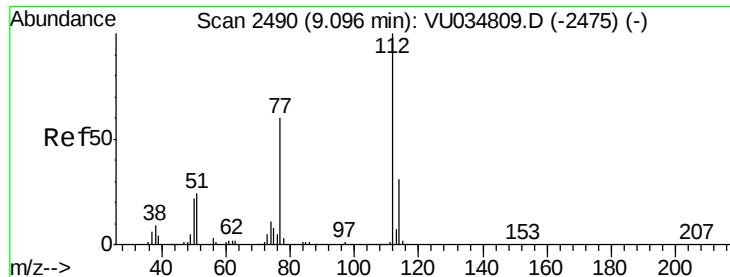
50000

0

8.25 8.30 8.35

Time-->

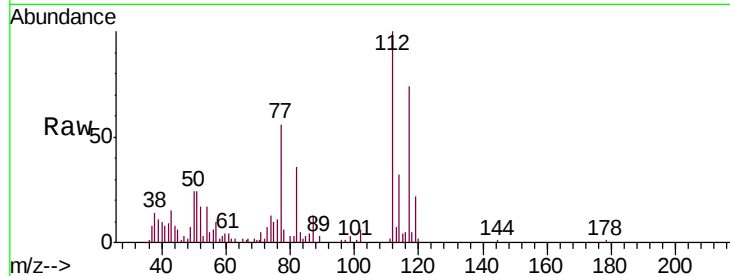




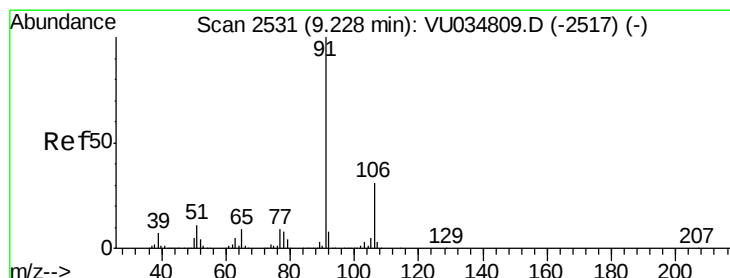
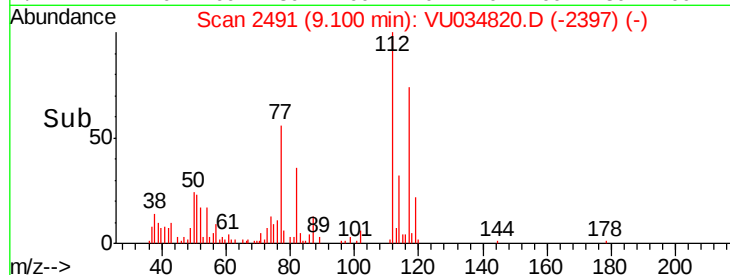
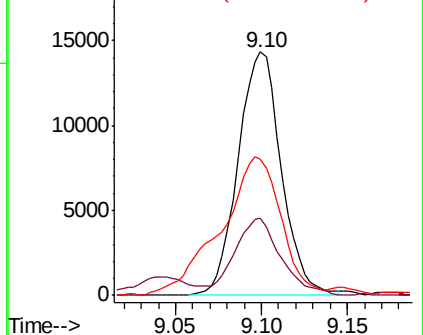
#51
Chlorobenzene
Concen: 2.501 ug/L
RT: 9.10 min Scan# 2491
Delta R.T. 0.00 min
Lab File: VU034820.D
Acq: 25 Sep 2019 22:18

Instrument :
MSVOA_U
ClientSampleId :
BFDJ3

Tgt Ion: 112 Resp: 24954
Ion Ratio Lower Upper
112 100
114 31.5 22.8 42.4
77 55.6 51.5 77.3

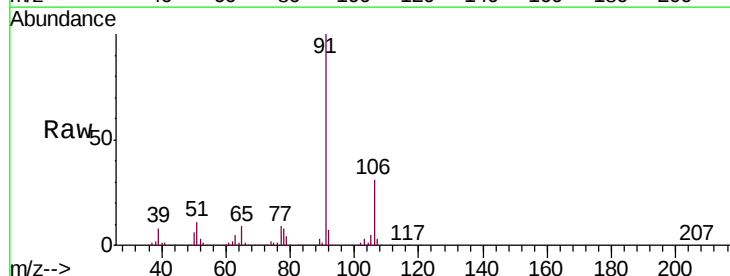


Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V

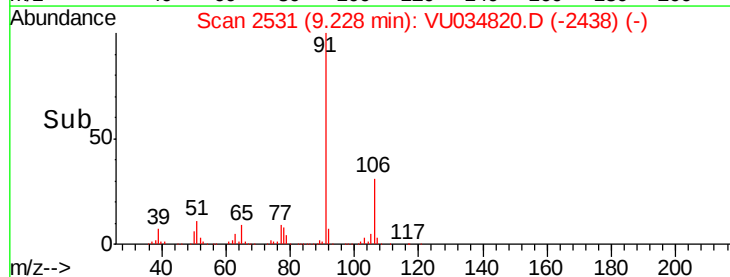
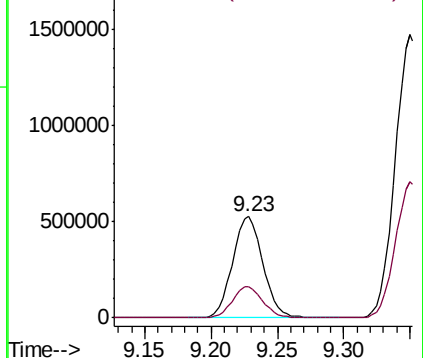


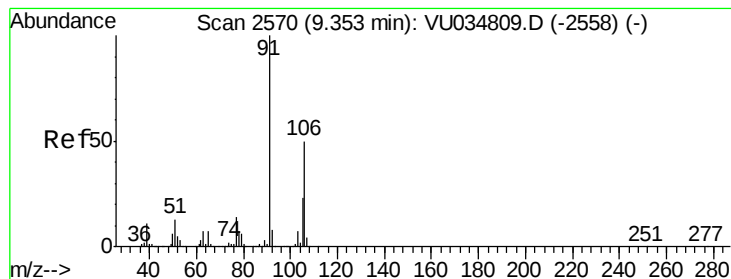
#52
Ethylbenzene
Concen: 45.602 ug/L
RT: 9.23 min Scan# 2531
Delta R.T. 0.00 min
Lab File: VU034820.D
Acq: 25 Sep 2019 22:18

Tgt Ion: 91 Resp: 842887
Ion Ratio Lower Upper
91 100
106 30.7 20.6 38.4



Abundance Ion 91.00 (90.70 to 91.70): V
Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 177.241 ug/L

RT: 9.35 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU034820.D

Acq: 25 Sep 2019 22:18

Instrument :

MSVOA_U

ClientSampleId :

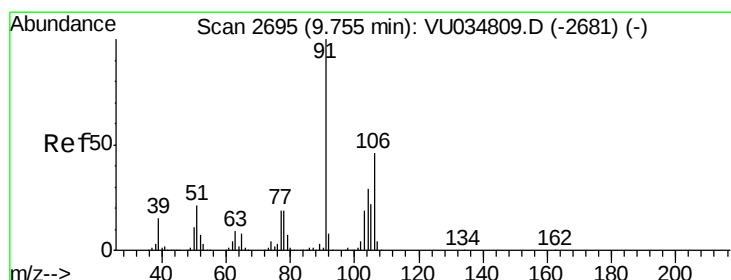
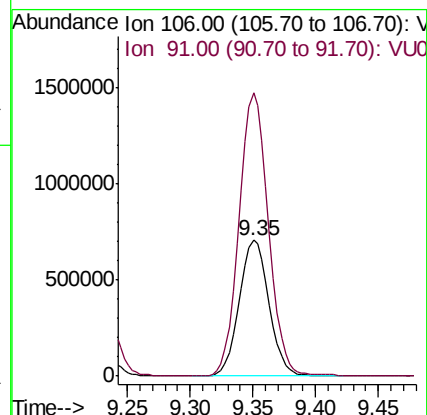
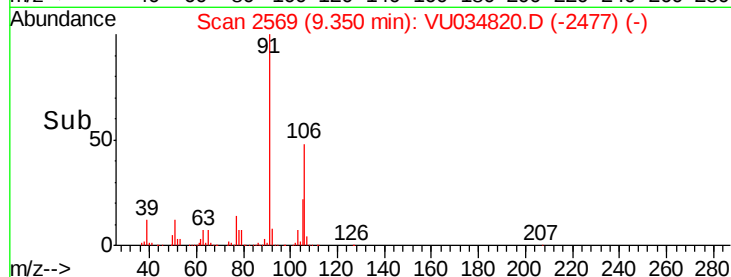
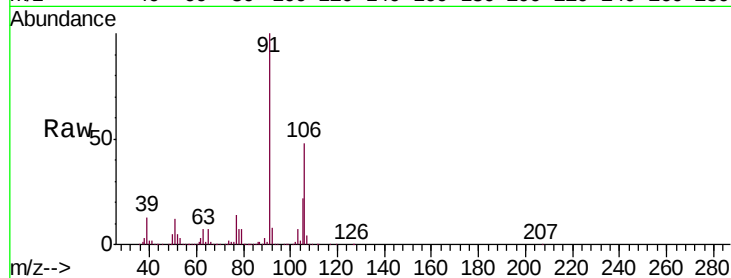
BFDJ3

Tgt Ion:106 Resp: 1160351

Ion Ratio Lower Upper

106 100

91 208.6 146.9 272.7



#54

o-xylene

Concen: 105.845 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VU034820.D

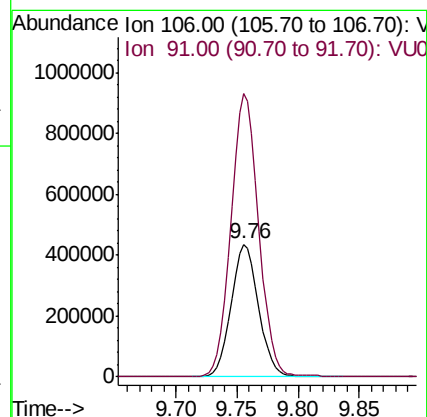
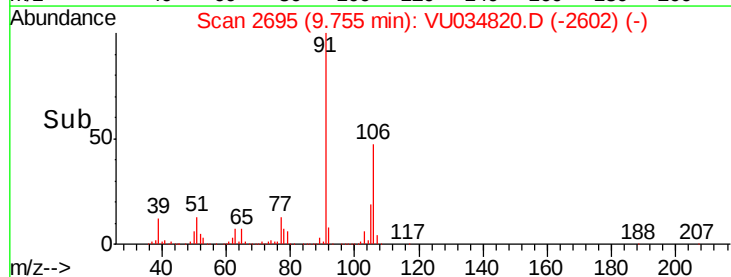
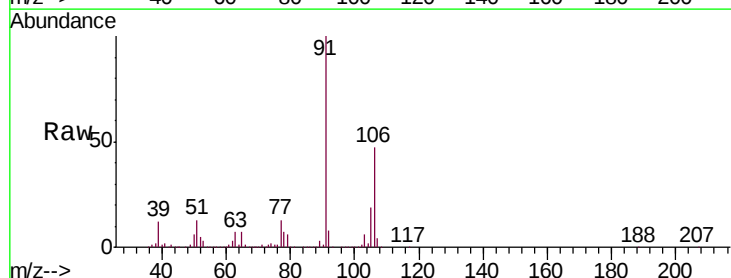
Acq: 25 Sep 2019 22:18

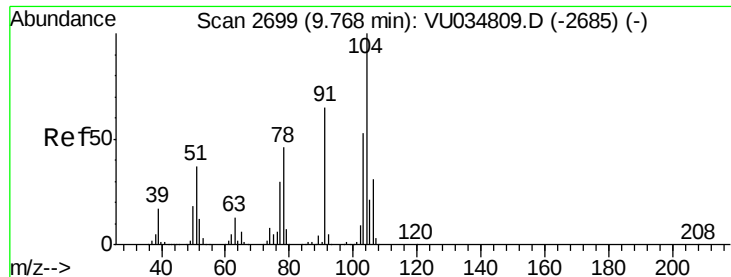
Tgt Ion:106 Resp: 685371

Ion Ratio Lower Upper

106 100

91 213.4 155.6 289.0





#55

Styrene

Concen: 3.165 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. -0.01 min

Lab File: VU034820.D

Acq: 25 Sep 2019 22:18

Instrument :

MSVOA_U

ClientSampleId :

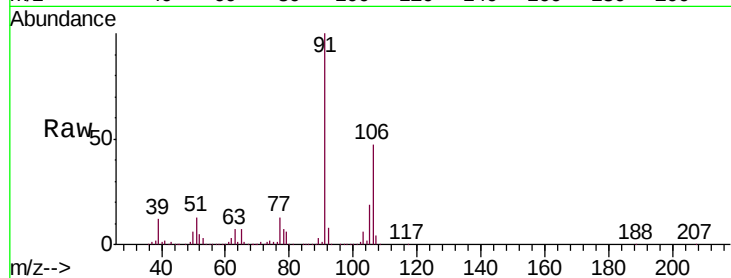
BFDJ3

Tgt Ion:104 Resp: 34690

Ion Ratio Lower Upper

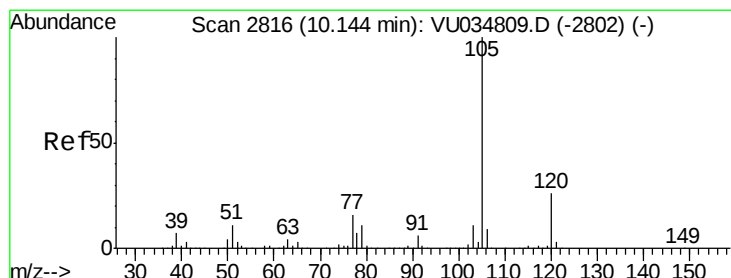
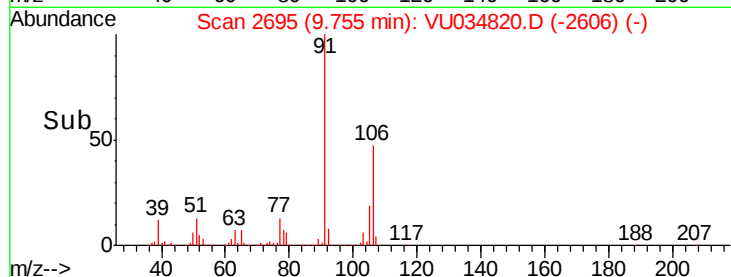
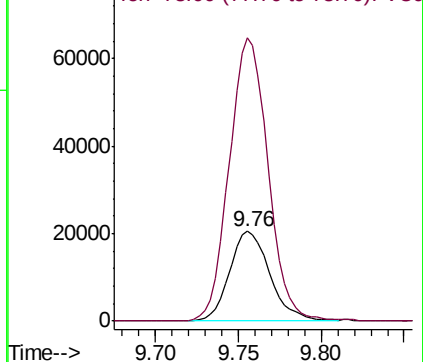
104 100

78 316.2 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: 4.317 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. 0.00 min

Lab File: VU034820.D

Acq: 25 Sep 2019 22:18

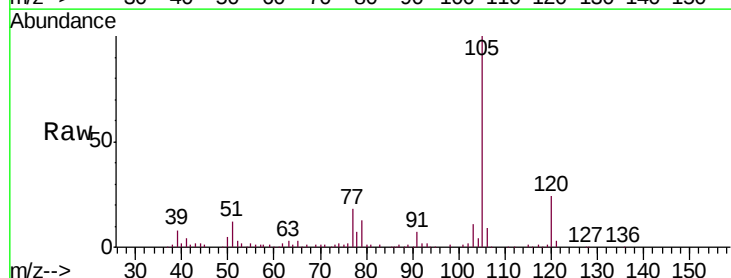
Tgt Ion:105 Resp: 75371

Ion Ratio Lower Upper

105 100

120 24.4 20.4 30.6

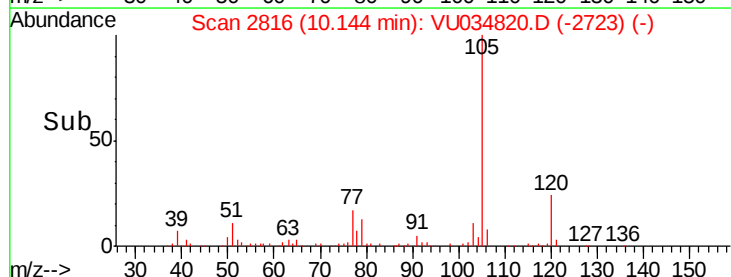
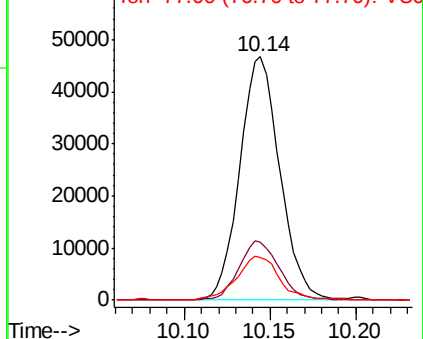
77 19.1 14.2 21.4

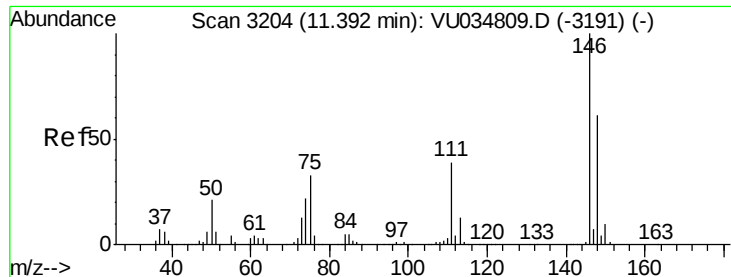


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU0

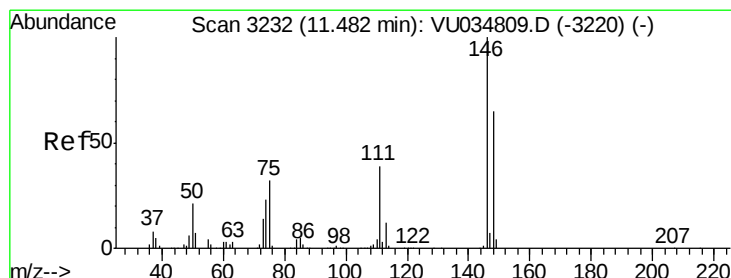
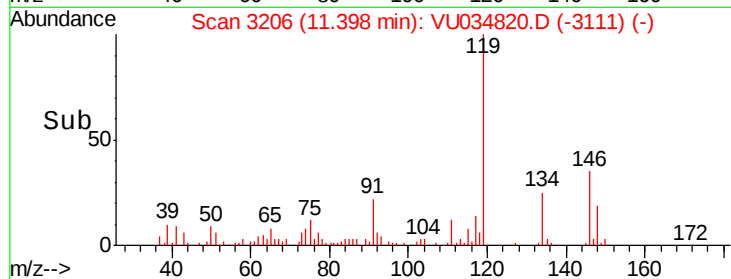
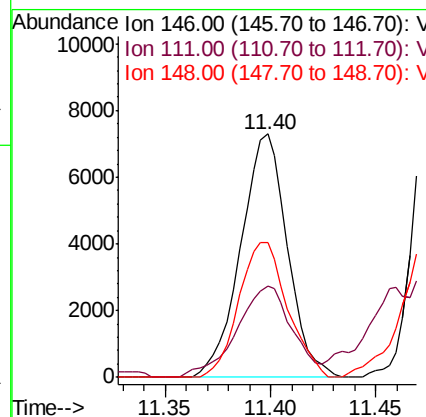
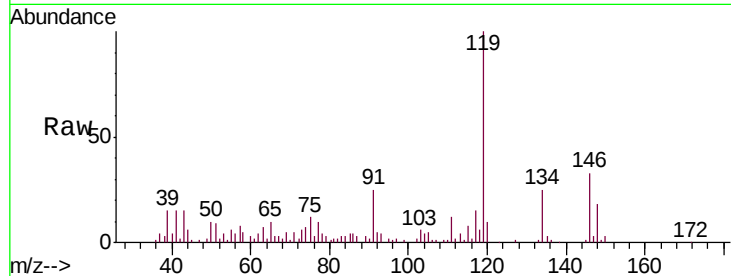




#62
 1,3-Dichlorobenzene
 Concen: 1.519 ug/L
 RT: 11.40 min Scan# 3206
 Delta R.T. 0.01 min
 Lab File: VU034820.D
 Acq: 25 Sep 2019 22:18

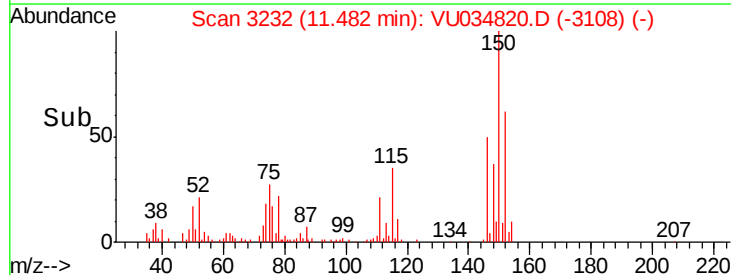
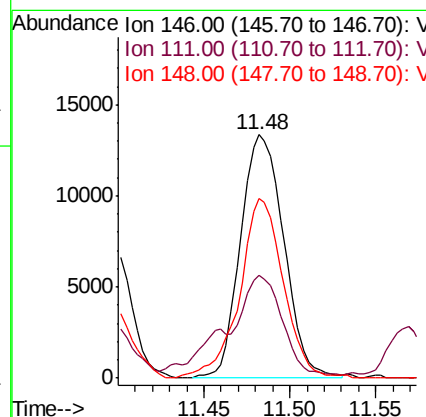
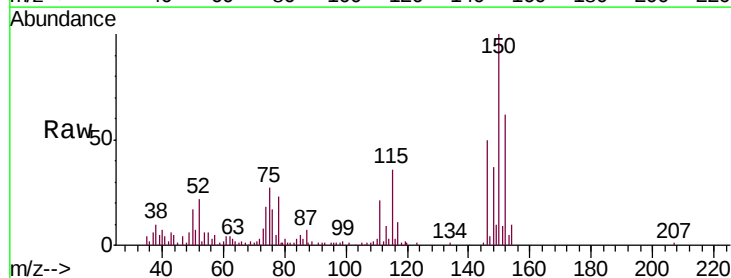
Instrument :
 MSVOA_U
 ClientSampleId :
 BFDJ3

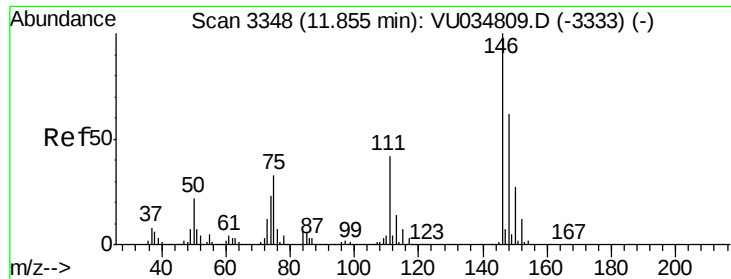
Tgt Ion:146 Resp: 11235
 Ion Ratio Lower Upper
 146 100
 111 37.6 30.4 56.5
 148 55.3 46.1 85.7



#63
 1,4-Dichlorobenzene
 Concen: 3.101 ug/L
 RT: 11.48 min Scan# 3232
 Delta R.T. 0.00 min
 Lab File: VU034820.D
 Acq: 25 Sep 2019 22:18

Tgt Ion:146 Resp: 23355
 Ion Ratio Lower Upper
 146 100
 111 42.2 29.5 54.9
 148 73.6 44.4 82.4





#65

1,2-Dichlorobenzene

Concen: 23.197 ug/L

RT: 11.86 min Scan# 3348

Delta R.T. 0.00 min

Lab File: VU034820.D

Acq: 25 Sep 2019 22:18

Instrument :

MSVOA_U

ClientSampleId :

BFDJ3

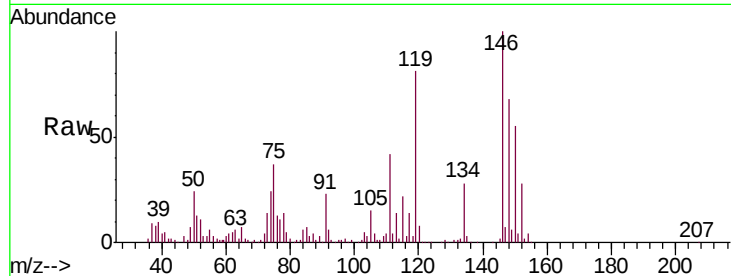
Tgt Ion:146 Resp: 173309

Ion Ratio Lower Upper

146 100

111 42.0 35.2 52.8

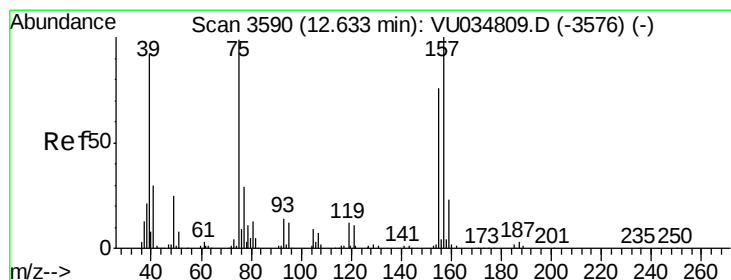
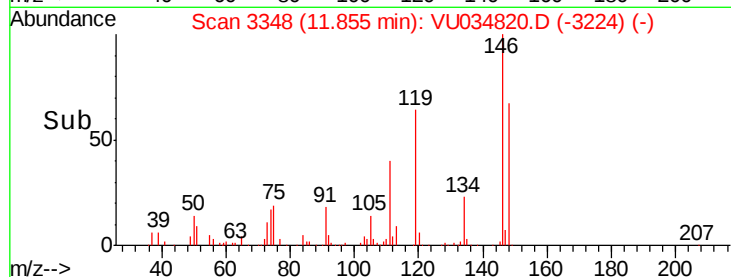
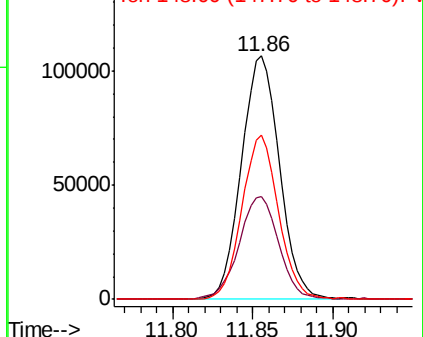
148 67.6 53.0 79.6



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



#66

1,2-Dibromo-3-chloropropane

Concen: 1.307 ug/L

RT: 12.62 min Scan# 3587

Delta R.T. -0.01 min

Lab File: VU034820.D

Acq: 25 Sep 2019 22:18

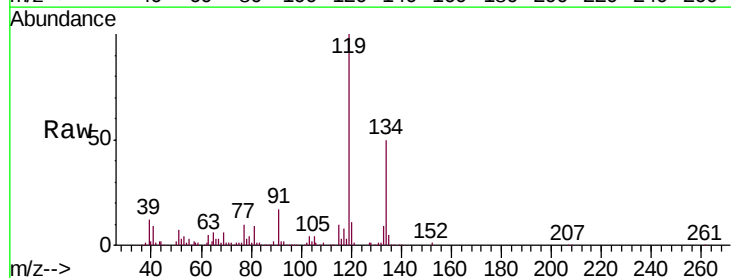
Tgt Ion: 75 Resp: 2076

Ion Ratio Lower Upper

75 100

155 0.0 54.7 82.1#

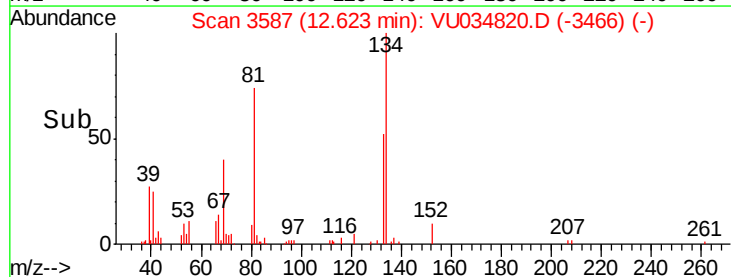
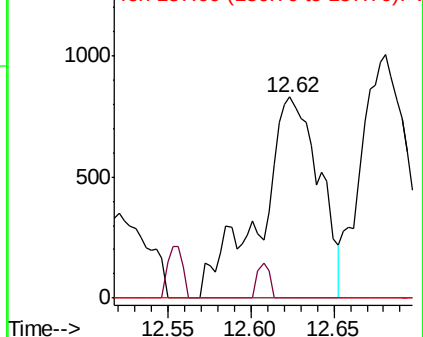
157 0.0 69.9 104.9#

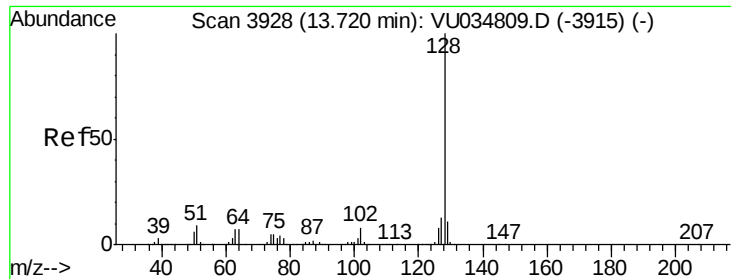


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V





#69

Naphthalene

Concen: 96.687 ug/L

RT: 13.72 min Scan# 3928

Delta R.T. 0.00 min

Lab File: VU034820.D

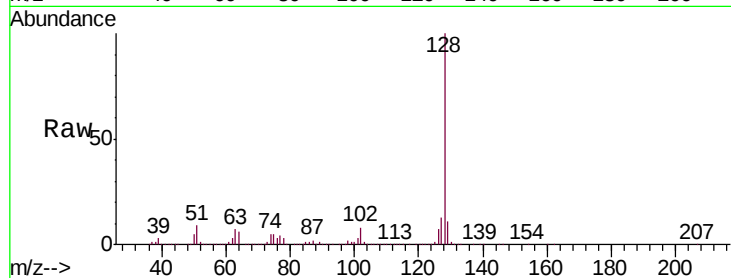
Acq: 25 Sep 2019 22:18

Instrument :

MSVOA_U

ClientSampleId :

BFDJ3



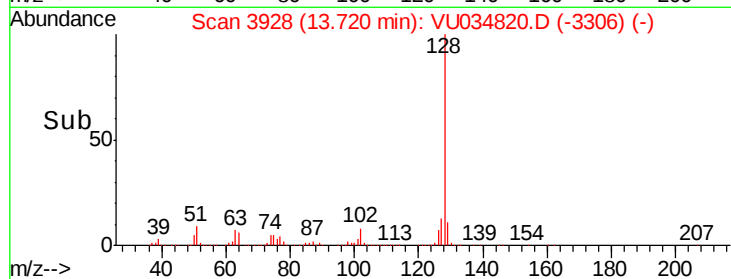
Tgt Ion:128 Resp: 1304059

Ion Ratio Lower Upper

128 100

127 13.2 10.8 16.2

129 10.8 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

