

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060420\
 Data File : VU038519.D
 Acq On : 03 Jun 2020 17:26
 Operator : SY/MD
 Sample : L2873-02
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 ETTM7

Quant Time: Jun 04 01:50:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR053120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Jun 04 01:48:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	276196	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	281202	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.82	152	140069	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	57166	3.20	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	64.00%
7) Chloroethane-d5	1.93	69	59308	4.32	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	86.40%
11) 1,1-Dichloroethene-d2	2.59	63	98460	2.80	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	56.00%#
20) 2-Butanone-d5	4.68	46	347613	64.01	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	128.02%
24) Chloroform-d	5.10	84	175054	5.21	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.20%
26) 1,2-Dichloroethane-d4	5.74	65	105501	5.53	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	110.60%
32) Benzene-d6	5.76	84	331065	4.72	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.40%
36) 1,2-Dichloropropane-d6	6.72	67	105281	4.88	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.60%
41) Toluene-d8	7.92	98	272115	4.32	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.40%
43) trans-1,3-Dichloropropene-	8.20	79	42125	4.54	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.80%
46) 2-Hexanone-d5	8.65	63	294971	64.34	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	128.68%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	102312	5.58	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	111.60%
64) 1,2-Dichlorobenzene-d4	12.20	152	122362	5.07	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	101.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	21195	0.990	ug/L #	1
8) Chloroethane	1.95	64	6276	0.489	ug/L #	61
12) 1,1-Dichloroethene	2.59	96	1404	0.083	ug/L #	1
13) Acetone	2.68	43	7761	2.184	ug/L	99
14) Carbon disulfide	2.83	76	4662	0.081	ug/L	97
18) trans-1,2-Dichloroethene	3.39	96	7711	0.421	ug/L	92
19) 1,1-Dichloroethane	3.91	63	29584	0.902	ug/L	97
22) cis-1,2-Dichloroethene	4.71	96	55445	2.809	ug/L	93
33) Benzene	5.81	78	6733	0.086	ug/L	100
34) Trichloroethene	6.57	95	30308	1.489	ug/L	94
35) Methylcyclohexane	6.72	83	25561	0.811	ug/L #	18
37) 1,2-Dichloropropane	6.72	63	11932	0.605	ug/L #	86
42) Toluene	7.99	91	15484	0.188	ug/L	100
48) 2-Hexanone	8.71	43	14403	1.348	ug/L #	92
51) Chlorobenzene	9.47	112	53816	1.015	ug/L	98
53) m,p-Xylene	9.71	106	4158	0.118	ug/L	91
54) o-Xylene	10.12	106	2523	0.075	ug/L	68

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Quant Time: Jun 04 01:50:21 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR053120WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Jun 04 01:48:03 2020
Response via : Initial Calibration

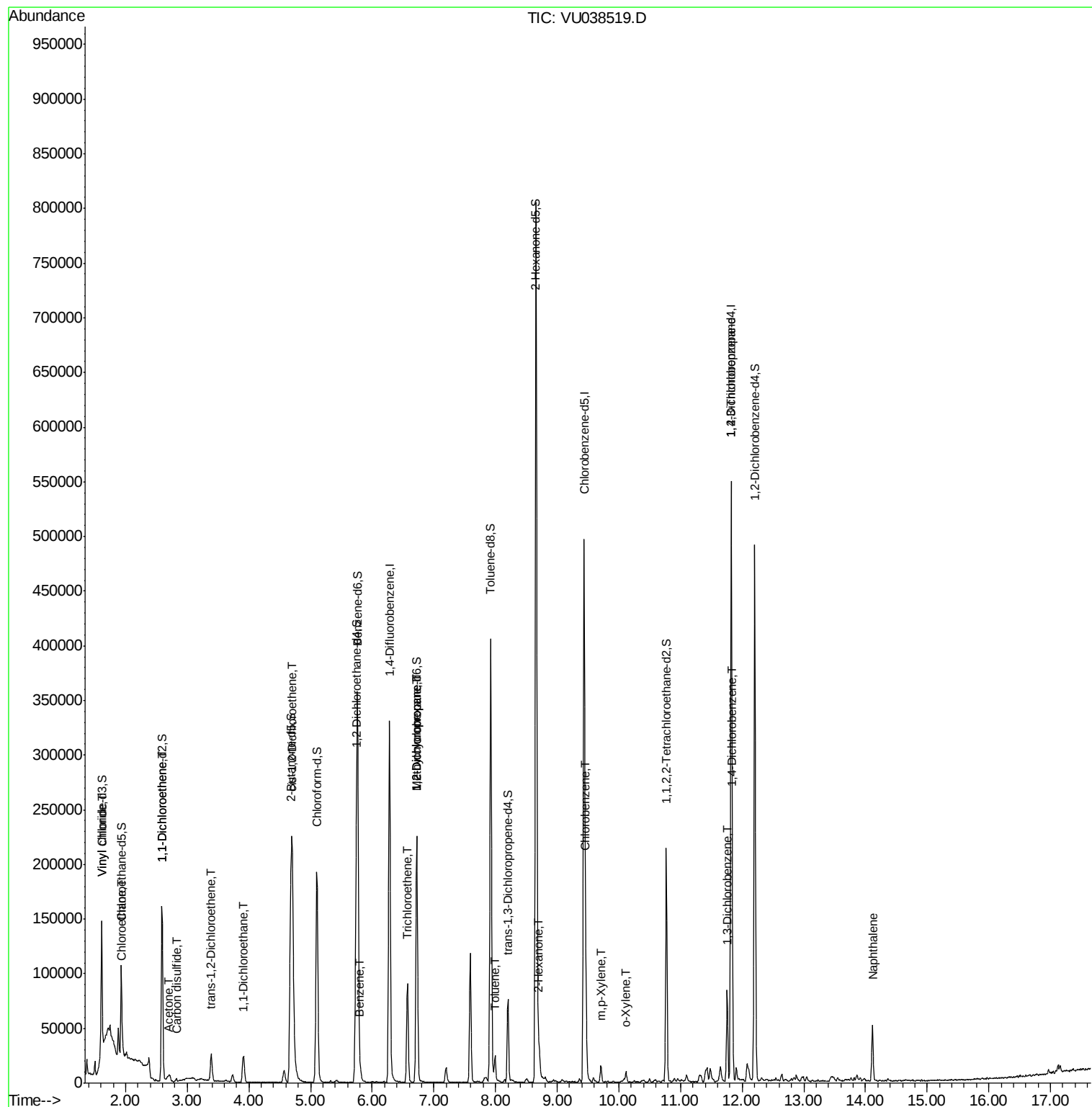
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) 1,2,3-Trichloropropane	11.82	75	21729	1.475	ug/L	99
62) 1,3-Dichlorobenzene	11.76	146	32946	0.801	ug/L	97
63) 1,4-Dichlorobenzene	11.85	146	10280	0.246	ug/L	96
69) Naphthalene	14.11	128	39948	0.706	ug/L	99

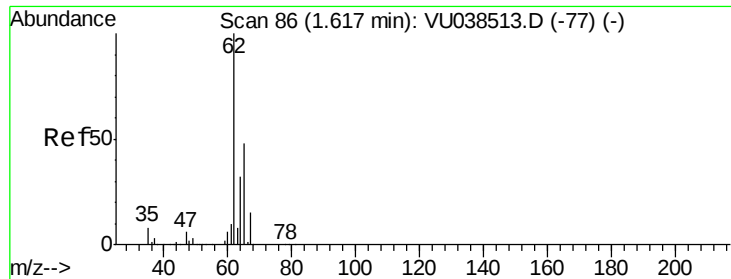
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.990 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU038519.D

Acq: 03 Jun 2020 17:26

Instrument :

MSVOA_U

ClientSampled :

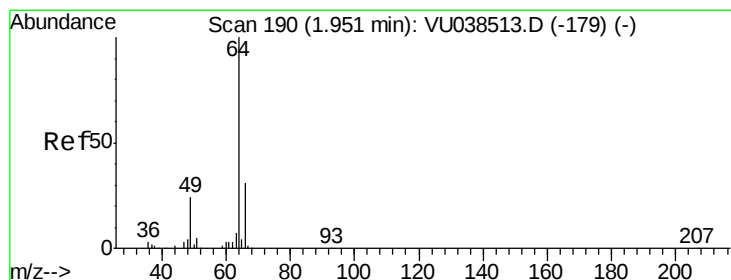
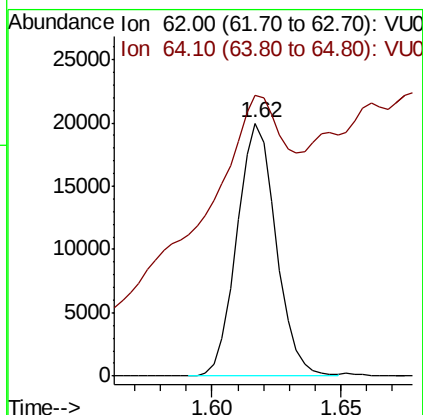
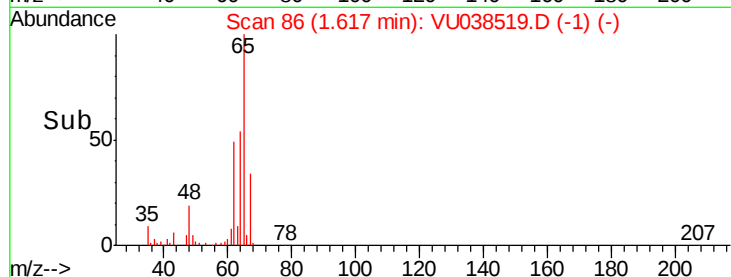
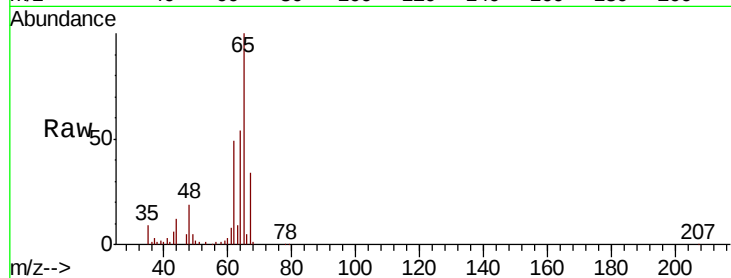
ETTM7

Tot Ion: 62 Resp: 21195

Ion Ratio Lower Upper

62 100

64 111.3 23.7 43.9#



#8

Chloroethane

Concen: 0.489 ug/L

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU038519.D

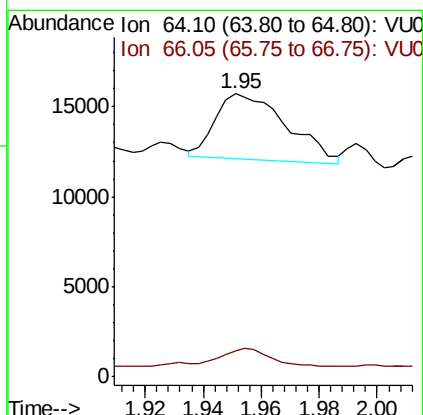
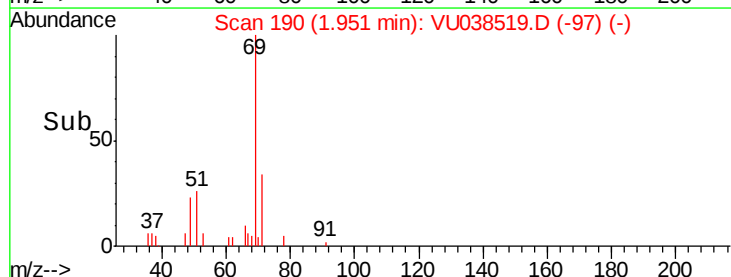
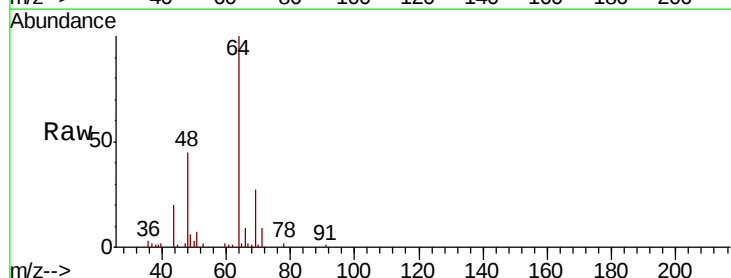
Acq: 03 Jun 2020 17:26

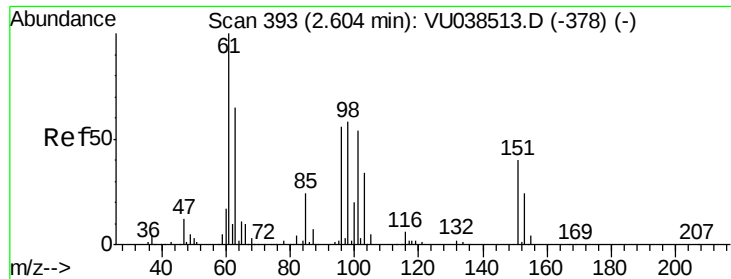
Tgt Ion: 64 Resp: 6276

Ion Ratio Lower Upper

64 100

66 9.4 21.5 39.9#

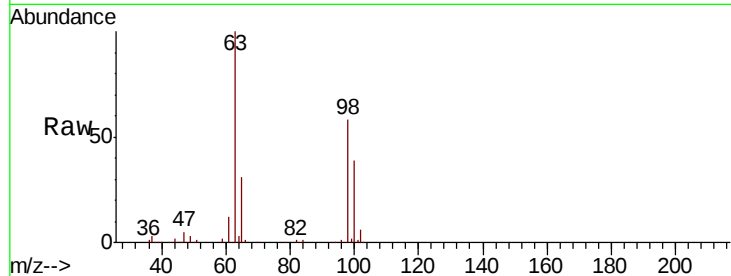




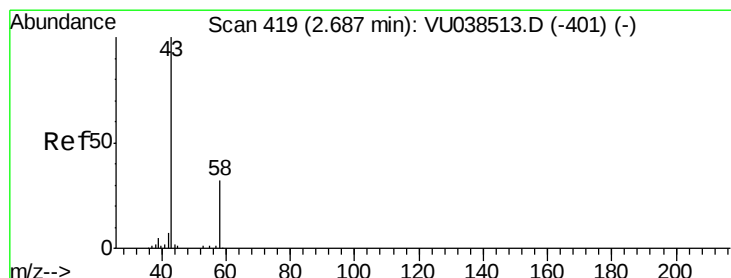
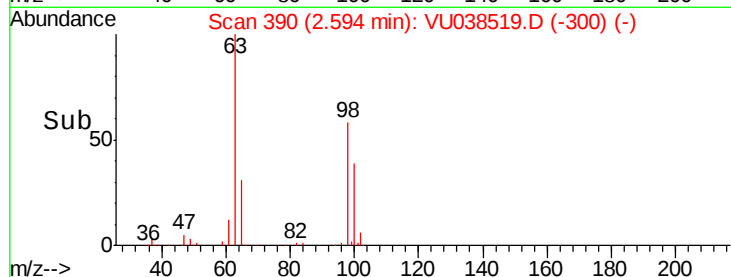
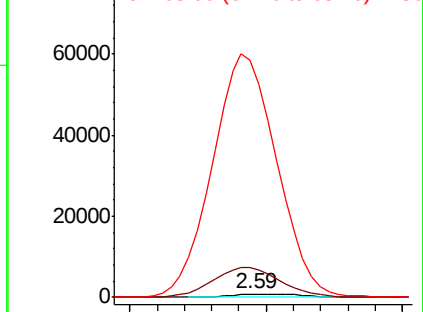
#12
 1,1-Dichloroethene
 Concen: 0.083 ug/L
 RT: 2.59 min Scan# 390
 Delta R.T. -0.01 min
 Lab File: VU038519.D
 Acq: 03 Jun 2020 17:26

Instrument :
 MSVOA_U
 ClientSampleId :
 ETTM7

Tot Ion: 96 Resp: 1404
 Ion Ratio Lower Upper
 96 100
 61 916.5 119.9 222.7#
 63 7430.0 89.9 167.0#

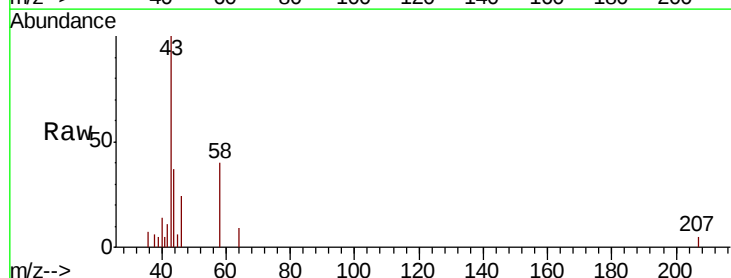


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 63.00 (62.70 to 63.70): VU0

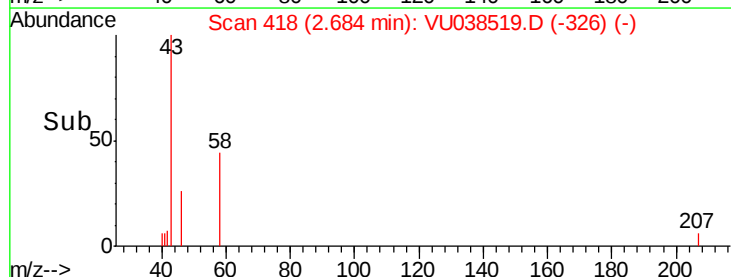
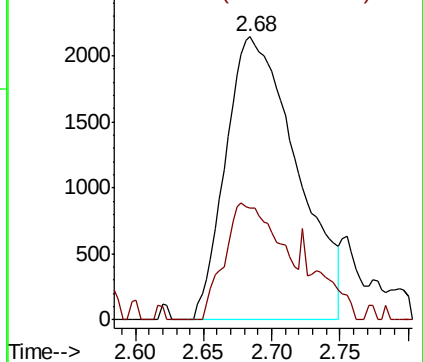


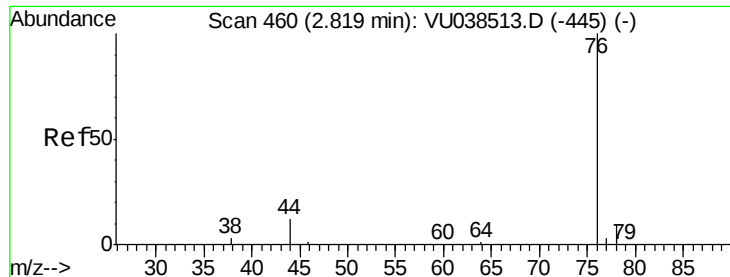
#13
 Acetone
 Concen: 2.184 ug/L
 RT: 2.68 min Scan# 418
 Delta R.T. -0.00 min
 Lab File: VU038519.D
 Acq: 03 Jun 2020 17:26

Tgt Ion: 43 Resp: 7761
 Ion Ratio Lower Upper
 43 100
 58 32.3 0.0 65.6



Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 58.05 (57.75 to 58.75): VU0





#14

Carbon disulfide

Concen: 0.081 ug/L

RT: 2.83 min Scan# 462

Delta R.T. 0.01 min

Lab File: VU038519.D

Acq: 03 Jun 2020 17:26

Instrument :

MSVOA_U

ClientSampleId :

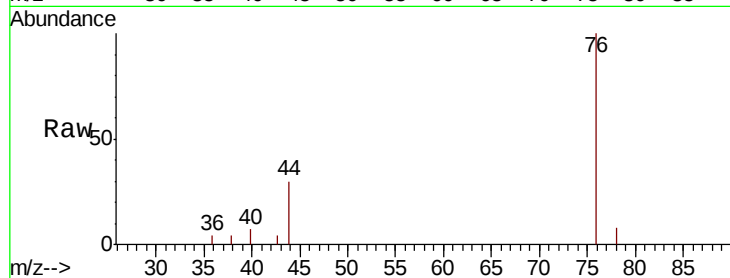
ETTM7

Tot Ion: 76 Resp: 4662

Ion Ratio Lower Upper

76 100

78 7.9 7.3 10.9



Abundance Ion 76.05 (75.75 to 76.75): VU038519.D (-367) (-)

Ion 78.00 (77.70 to 78.70): VU038519.D (-367) (-)

2.83

3000

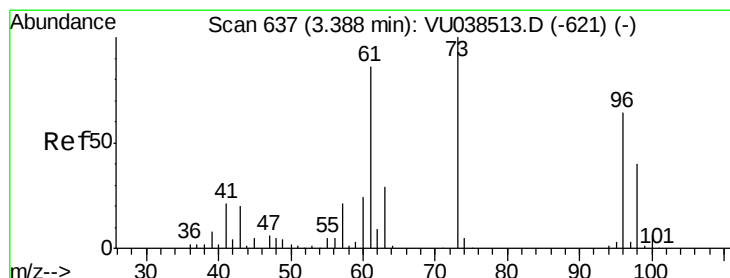
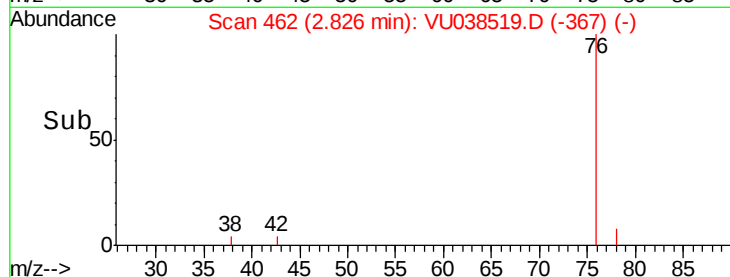
2000

1000

0

2.80 2.85

Time-->



#18

trans-1,2-Dichloroethene

Concen: 0.421 ug/L

RT: 3.39 min Scan# 637

Delta R.T. 0.00 min

Lab File: VU038519.D

Acq: 03 Jun 2020 17:26

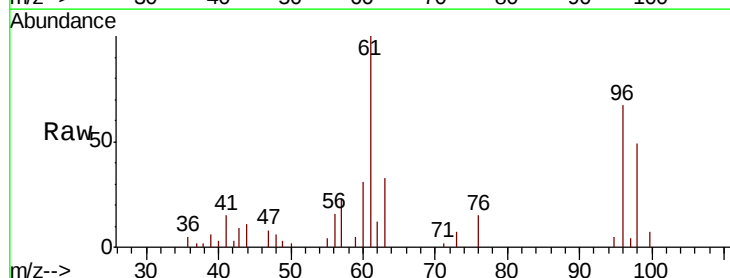
Tgt Ion: 96 Resp: 7711

Ion Ratio Lower Upper

96 100

61 148.5 100.2 186.0

98 72.6 42.8 79.4



Abundance Ion 96.00 (95.70 to 96.70): VU038519.D (-544) (-)

Ion 61.05 (60.75 to 61.75): VU038519.D (-544) (-)

Ion 97.95 (97.65 to 98.65): VU038519.D (-544) (-)

8000

6000

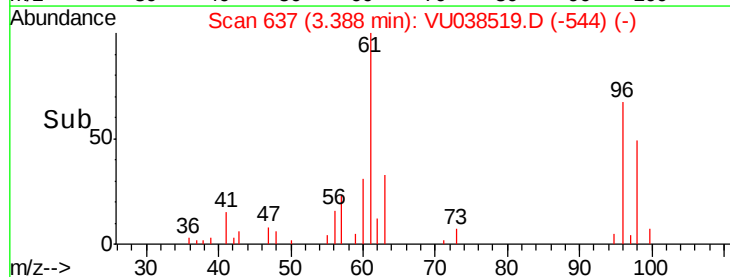
4000

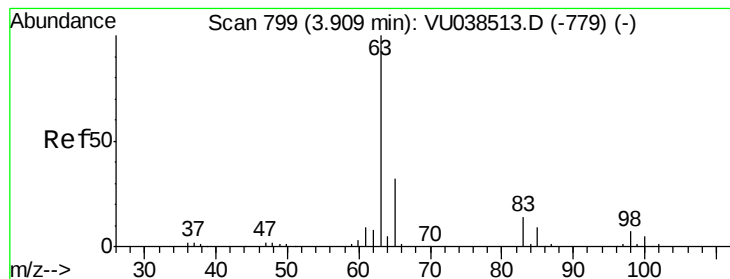
2000

0

3.35 3.40 3.45

Time-->





#19

1,1-Dichloroethane

Concen: 0.902 ug/L

RT: 3.91 min Scan# 798

Delta R.T. -0.00 min

Lab File: VU038519.D

Acq: 03 Jun 2020 17:26

Instrument :

MSVOA_U

ClientSampleId :

ETTM7

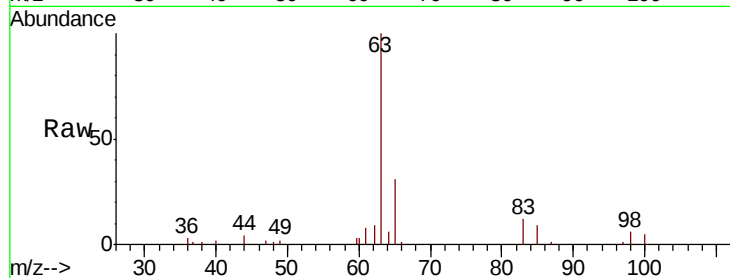
Tot Ion: 63 Resp: 29584

Ion Ratio Lower Upper

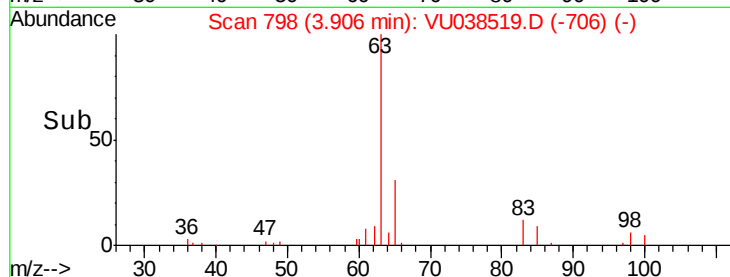
63 100

65 31.2 22.3 41.5

83 11.9 10.4 19.4

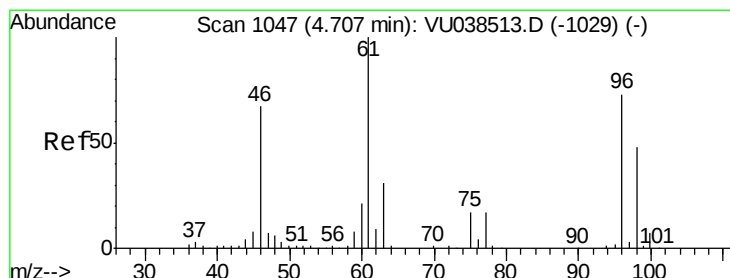
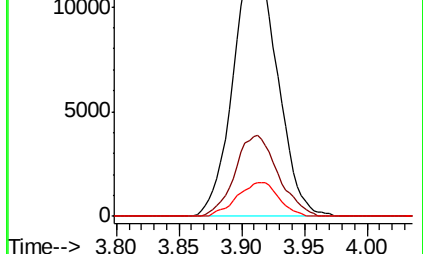


Abundance Ion 63.10 (62.80 to 63.80): VU038519.D (-706) (-)



Ion 65.10 (64.80 to 65.80): VU038519.D (-706) (-)

Ion 83.05 (82.75 to 83.75): VU038519.D (-706) (-)



#22

cis-1,2-Dichloroethene

Concen: 2.809 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. 0.00 min

Lab File: VU038519.D

Acq: 03 Jun 2020 17:26

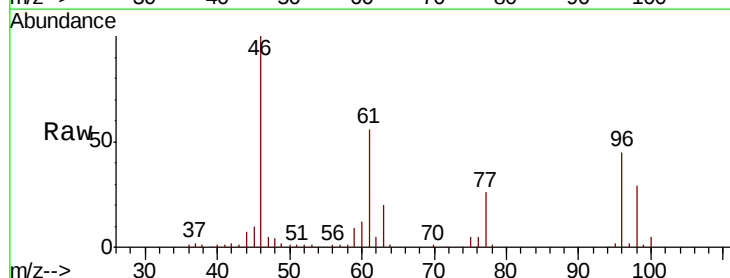
Tgt Ion: 96 Resp: 55445

Ion Ratio Lower Upper

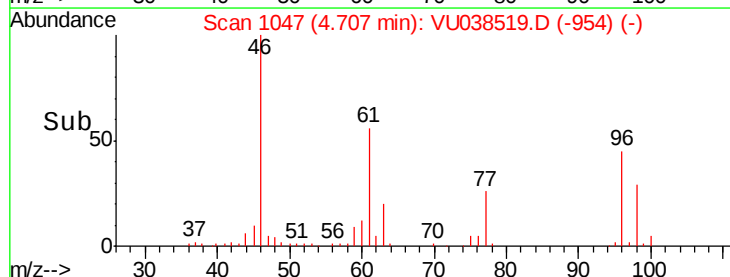
96 100

61 126.1 94.0 174.6

68 0.0 0.0 0.0

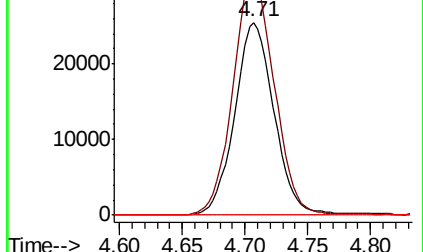


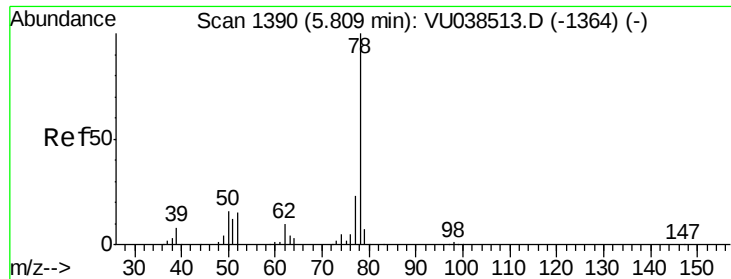
Abundance Ion 96.00 (95.70 to 96.70): VU038519.D (-954) (-)



Ion 61.05 (60.75 to 61.75): VU038519.D (-954) (-)

Ion 68.15 (67.85 to 68.85): VU038519.D (-954) (-)





#33

Benzene

Concen: 0.086 ug/L

RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

Lab File: VU038519.D

Acq: 03 Jun 2020 17:26

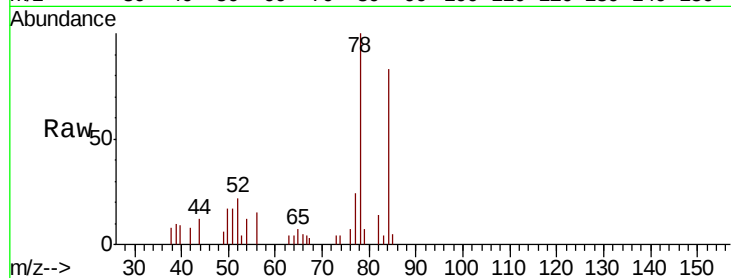
Instrument :

MSVOA_U

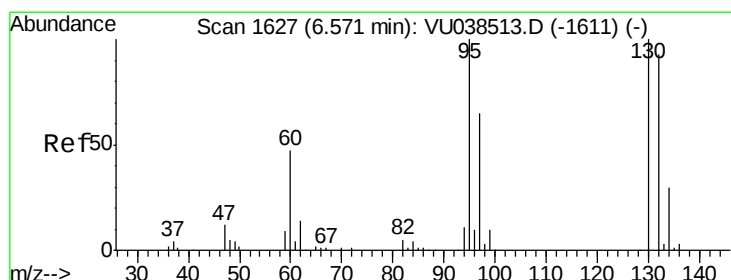
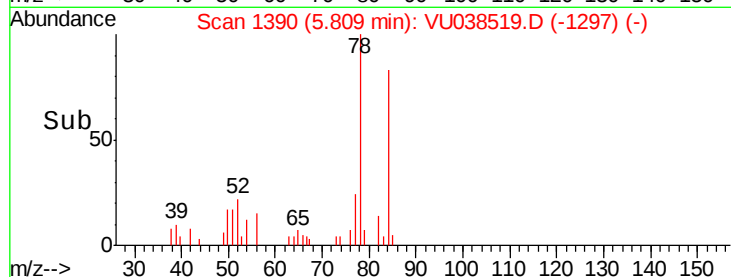
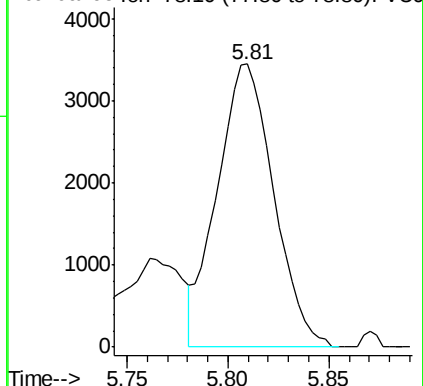
ClientSampleId :

ETTM7

Tgt Ion: 78 Resp: 6733



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 1.489 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. 0.00 min

Lab File: VU038519.D

Acq: 03 Jun 2020 17:26

Tgt Ion: 95 Resp: 30308

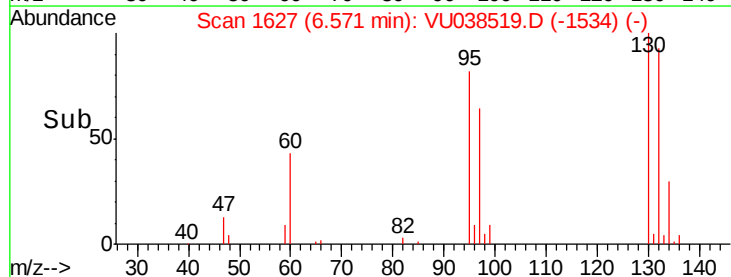
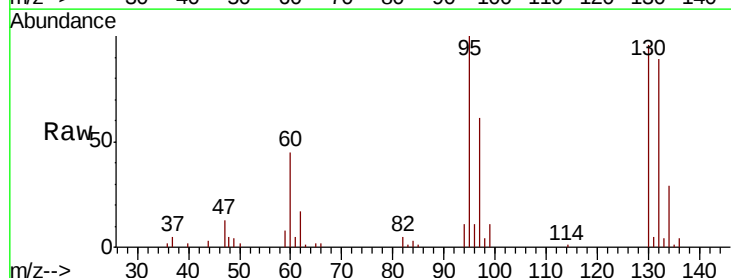
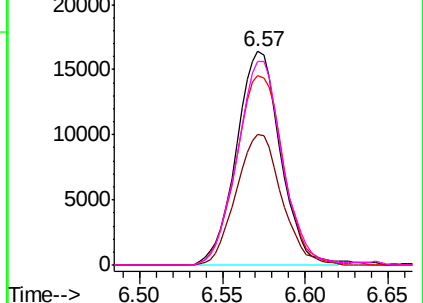
Ion	Ratio	Lower	Upper
95	100		
97	60.9	46.8	87.0
132	88.6	66.1	122.7
130	95.5	70.0	130.0

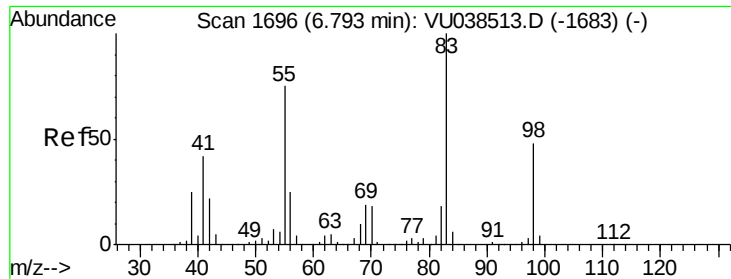
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V

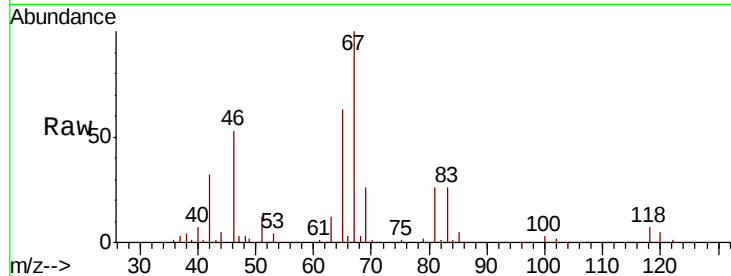




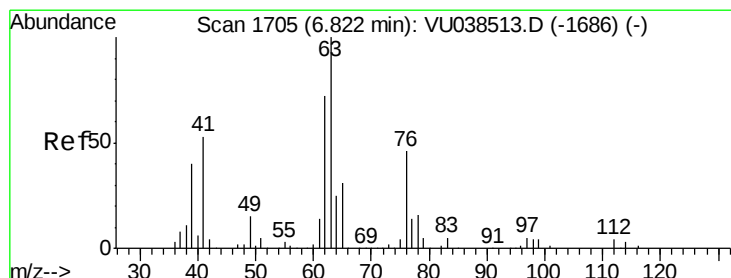
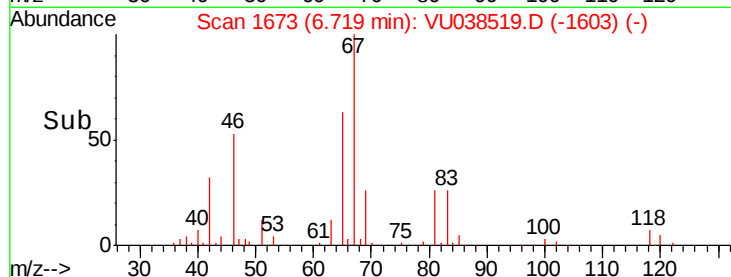
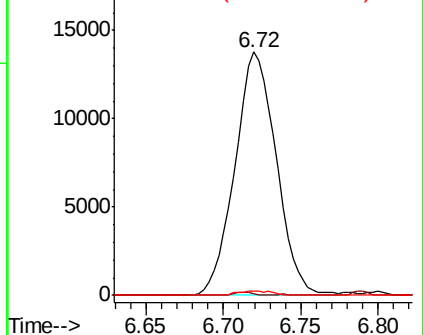
#35
Methvlcvclohexane
Concen: 0.811 ug/L
RT: 6.72 min Scan# 1673
Delta R.T. -0.07 min
Lab File: VU038519.D
Acq: 03 Jun 2020 17:26

Instrument :
MSVOA_U
ClientSampleId :
ETTM7

Tot Ion: 83 Resp: 25561
Ion Ratio Lower Upper
83 100
55 0.5 63.4 95.2#
98 1.4 39.0 58.4#

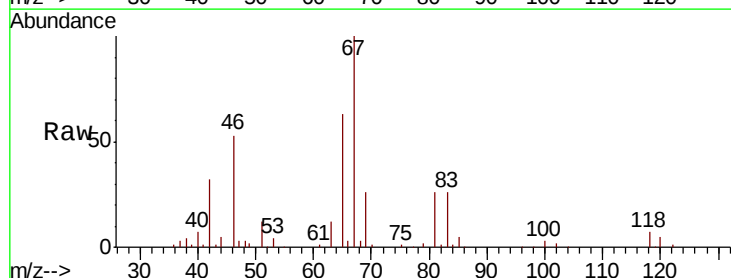


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

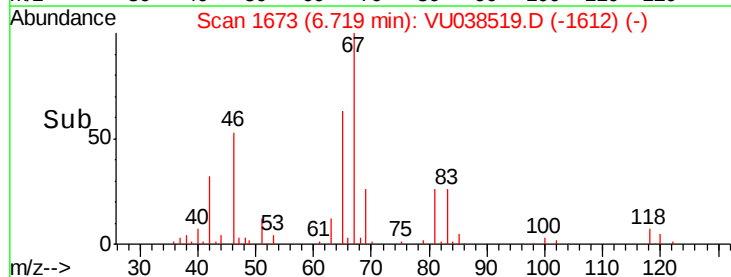
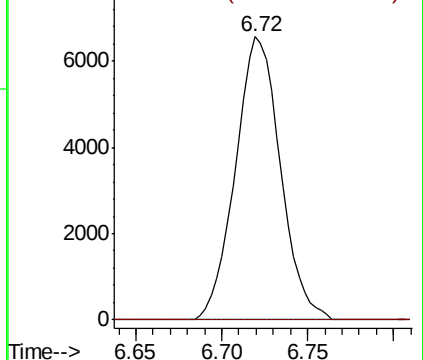


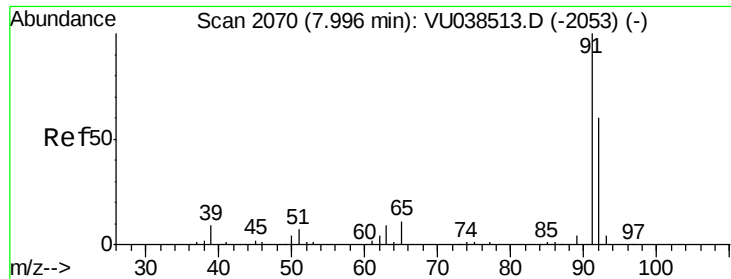
#37
1,2-Dichloropropane
Concen: 0.605 ug/L
RT: 6.72 min Scan# 1673
Delta R.T. -0.10 min
Lab File: VU038519.D
Acq: 03 Jun 2020 17:26

Tgt Ion: 63 Resp: 11932
Ion Ratio Lower Upper
63 100
112 0.0 3.7 5.5#



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 112.10 (111.80 to 112.80): V





#42

Toluene

Concen: 0.188 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. -0.00 min

Lab File: VU038519.D

Acq: 03 Jun 2020 17:26

Instrument :

MSVOA_U

ClientSampleId :

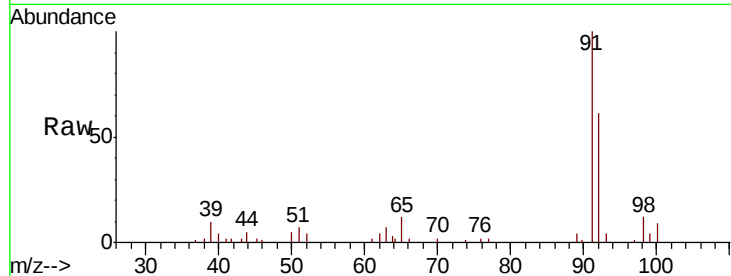
ETTM7

Tot Ion: 91 Resp: 15484

Ion Ratio Lower Upper

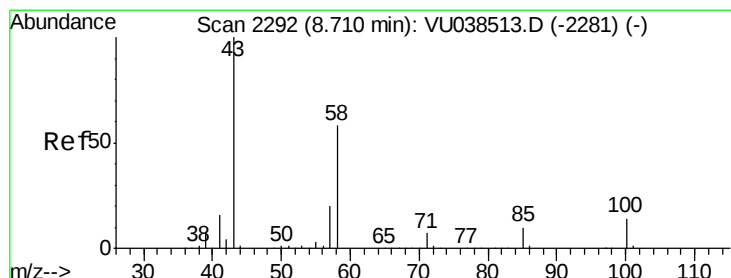
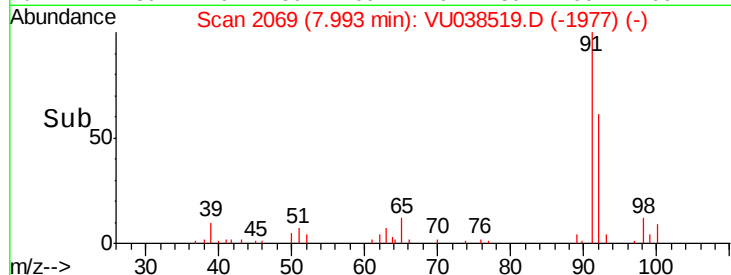
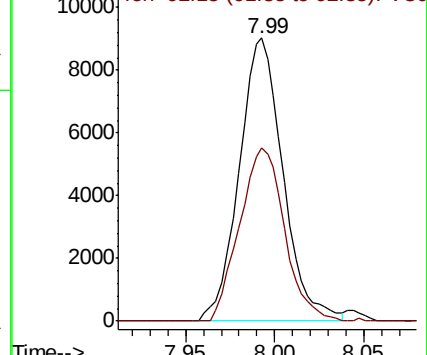
91 100

92 61.2 43.0 79.8



Abundance Ion 91.15 (90.85 to 91.85): VU038519.D (-2177) (-)

Ion 92.15 (91.85 to 92.85): VU038519.D (-2177) (-)



#48

2-Hexanone

Concen: 1.348 ug/L

RT: 8.71 min Scan# 2292

Delta R.T. 0.00 min

Lab File: VU038519.D

Acq: 03 Jun 2020 17:26

Tgt Ion: 43 Resp: 14403

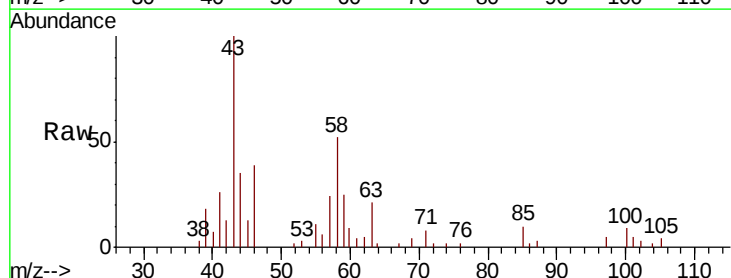
Ion Ratio Lower Upper

43 100

58 51.2 45.4 68.0

57 15.3 15.9 23.9#

100 10.4 10.5 15.7#

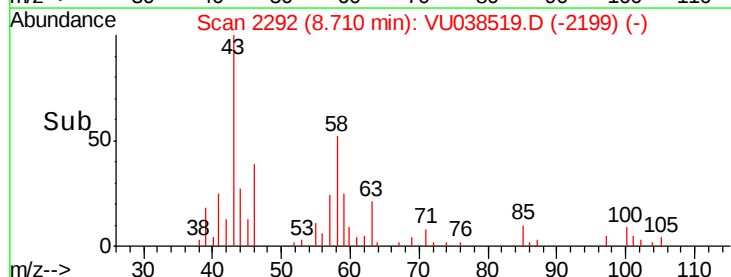
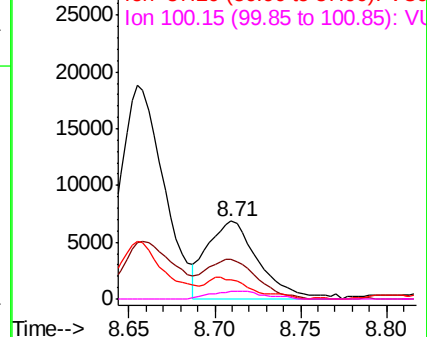


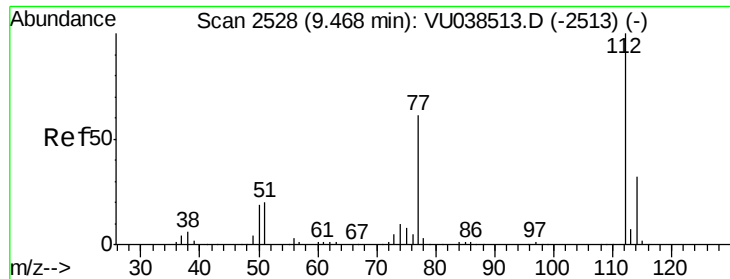
Abundance Ion 43.05 (42.75 to 43.75): VU038519.D (-2199) (-)

Ion 58.05 (57.75 to 58.75): VU038519.D (-2199) (-)

Ion 57.20 (56.90 to 57.90): VU038519.D (-2199) (-)

Ion 100.15 (99.85 to 100.85): VU038519.D (-2199) (-)





#51

Chlorobenzene

Concen: 1.015 ug/L

RT: 9.47 min Scan# 2527

Delta R.T. -0.00 min

Lab File: VU038519.D

Acq: 03 Jun 2020 17:26

Instrument :

MSVOA_U

ClientSampleId :

ETTM7

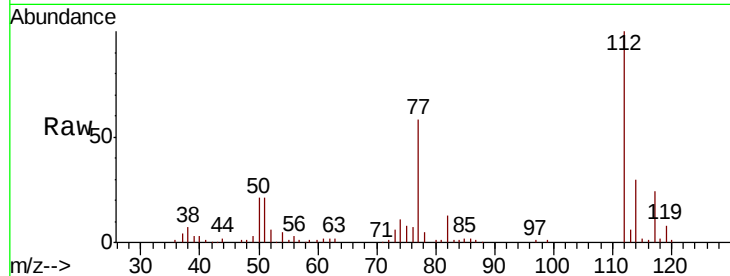
Tot Ion:112 Resp: 53816

Ion Ratio Lower Upper

112 100

114 30.4 22.4 41.6

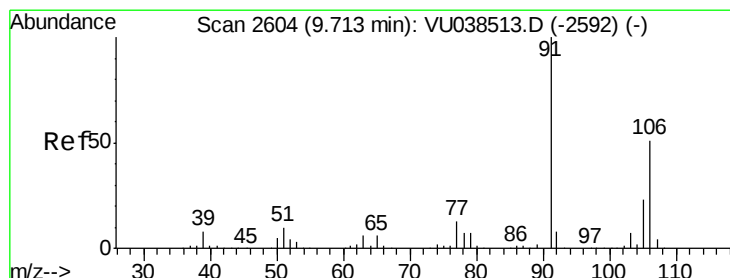
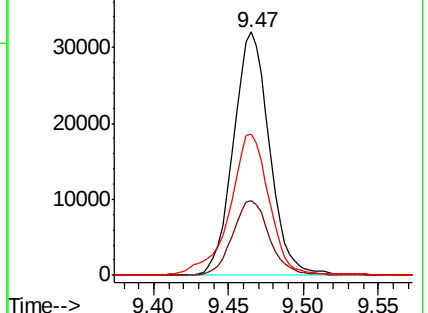
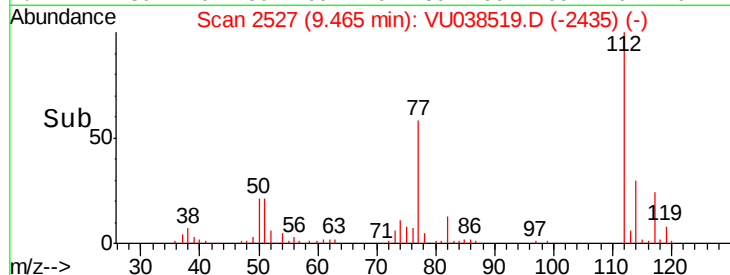
77 58.2 47.1 70.7



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU0



#53

m,p-Xylene

Concen: 0.118 ug/L

RT: 9.71 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VU038519.D

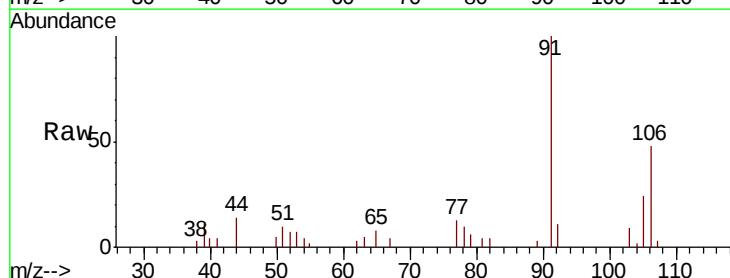
Acq: 03 Jun 2020 17:26

Tgt Ion:106 Resp: 4158

Ion Ratio Lower Upper

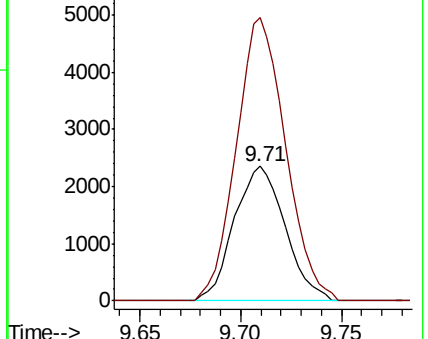
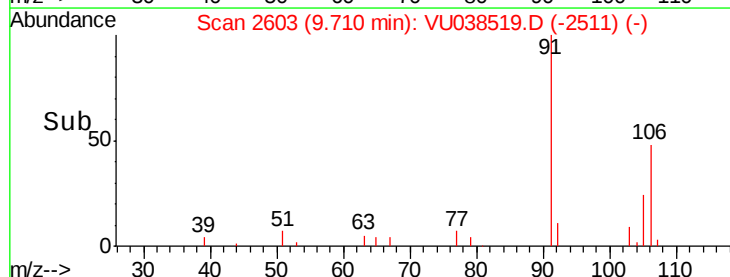
106 100

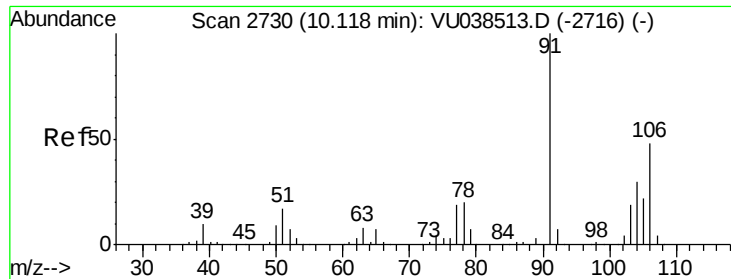
91 210.2 138.1 256.5



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0

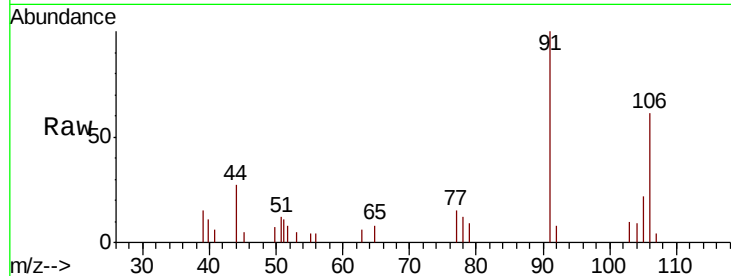




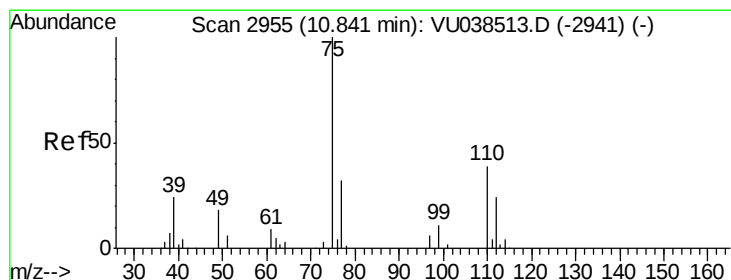
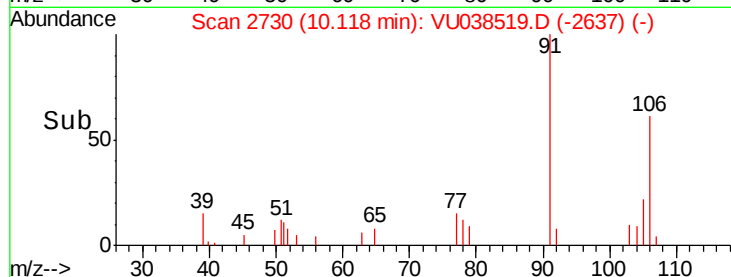
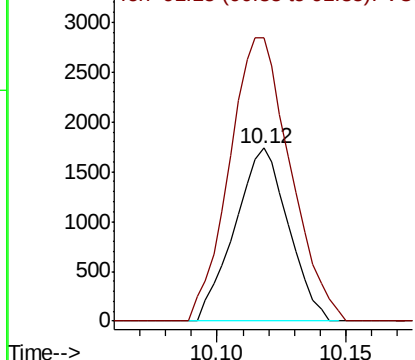
#54
o-Xylene
Concen: 0.075 ug/L
RT: 10.12 min Scan# 2730
Delta R.T. 0.00 min
Lab File: VU038519.D
Acq: 03 Jun 2020 17:26

Instrument :
MSVOA_U
ClientSampleId :
ETTM7

Tot Ion:106 Resp: 2523
Ion Ratio Lower Upper
106 100
91 163.9 150.6 279.8

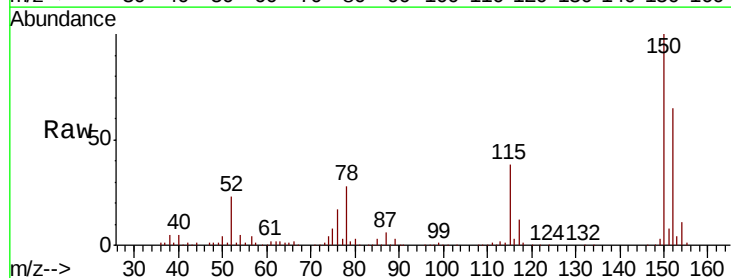


Abundance Ion 106.15 (105.85 to 106.85): VU038519.D (-2637) (-)
Ion 91.15 (90.85 to 91.85): VU038519.D (-2637) (-)

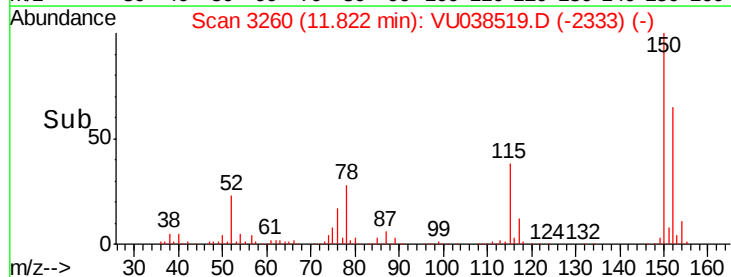
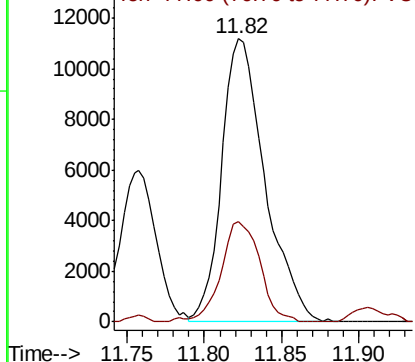


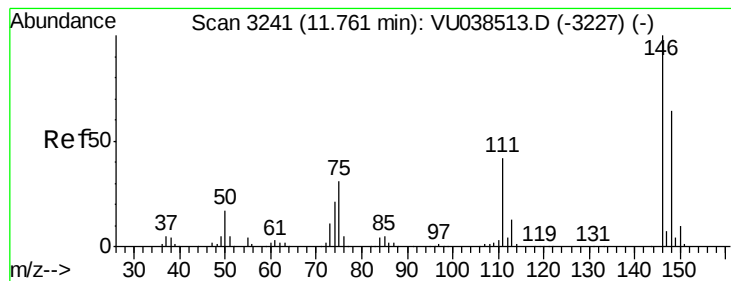
#59
1,2,3-Trichloropropane
Concen: 1.475 ug/L
RT: 11.82 min Scan# 3260
Delta R.T. 0.98 min
Lab File: VU038519.D
Acq: 03 Jun 2020 17:26

Tgt Ion: 75 Resp: 21729
Ion Ratio Lower Upper
75 100
77 31.4 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VU038519.D (-2333) (-)
Ion 77.00 (76.70 to 77.70): VU038519.D (-2333) (-)





#62

1,3-Dichlorobenzene

Concen: 0.801 ug/L

RT: 11.76 min Scan# 3240

Delta R.T. -0.00 min

Lab File: VU038519.D

Acq: 03 Jun 2020 17:26

Instrument :

MSVOA_U

ClientSampled :

ETTM7

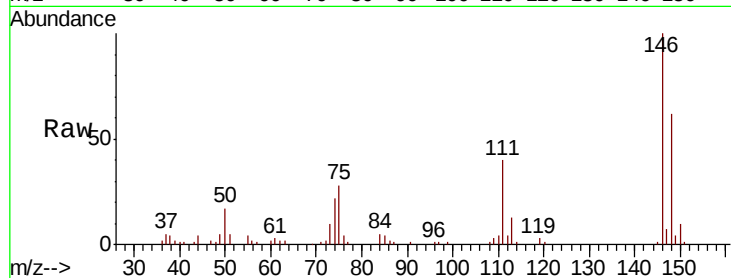
Tot Ion:146 Resp: 32946

Ion Ratio Lower Upper

146 100

111 40.1 29.5 54.9

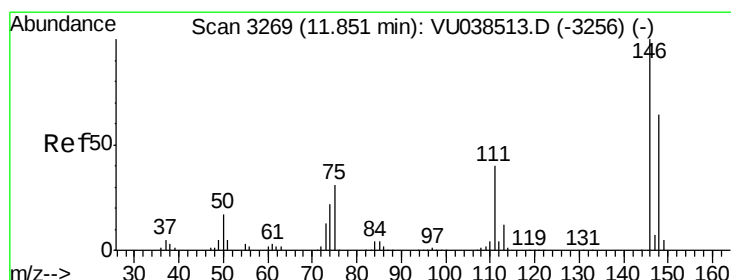
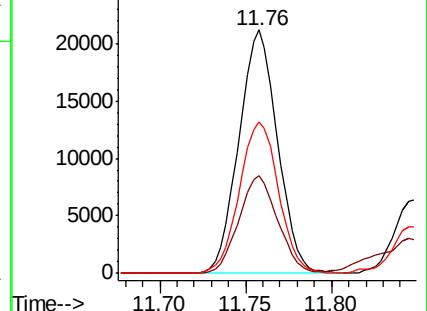
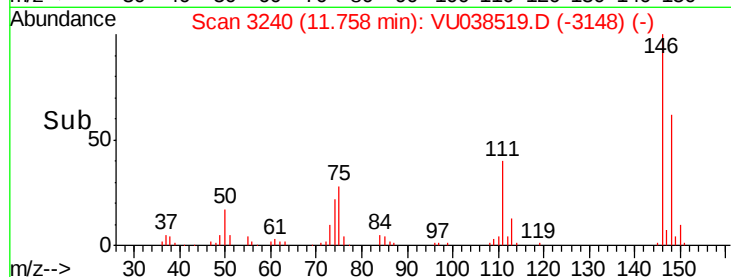
148 62.3 45.6 84.6



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 0.246 ug/L

RT: 11.85 min Scan# 3268

Delta R.T. -0.00 min

Lab File: VU038519.D

Acq: 03 Jun 2020 17:26

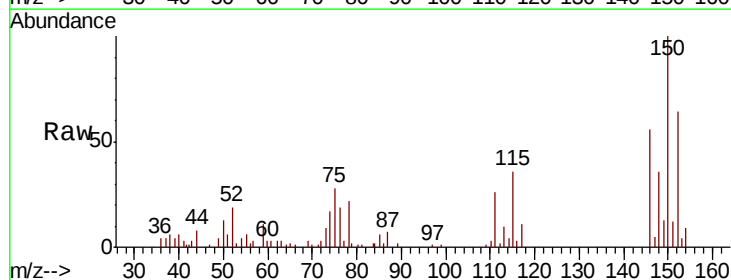
Tgt Ion:146 Resp: 10280

Ion Ratio Lower Upper

146 100

111 45.9 27.6 51.2

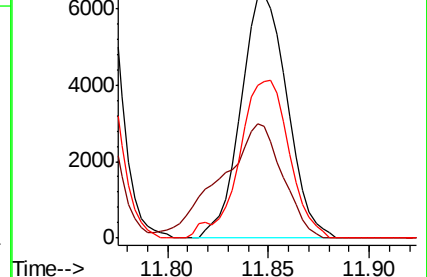
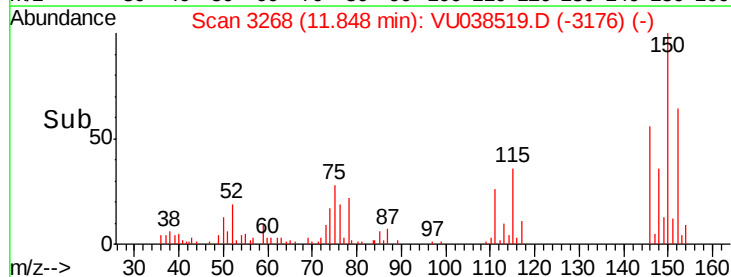
148 64.2 44.8 83.2

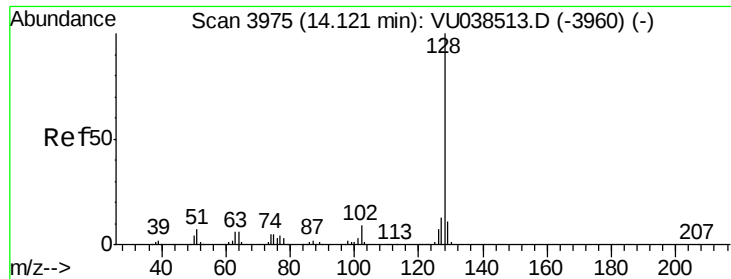


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#69

Naphthalene

Concen: 0.706 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. -0.01 min

Lab File: VU038519.D

Acq: 03 Jun 2020 17:26

Instrument :

MSVOA_U

ClientSampleId :

ETTM7

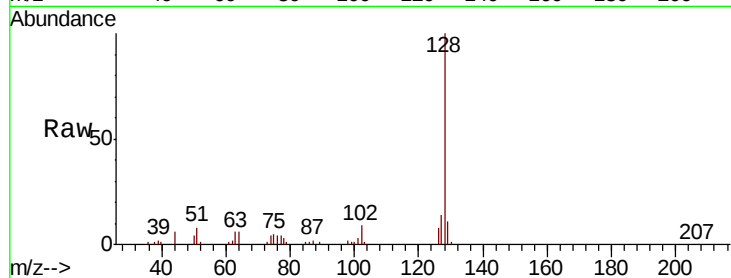
Tot Ion:128 Resp: 39948

Ion Ratio Lower Upper

128 100

129 10.7 8.9 13.3

127 12.5 10.2 15.4



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

