

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU042420\
 Data File : VU037878.D
 Acq On : 24 Apr 2020 17:56
 Operator : JC/MD
 Sample : L2395-12
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Apr 25 01:16:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Apr 25 01:13:34 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	576872	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	563084	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	224921	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	270750	53.72	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	107.44%
7) Chloroethane-d5	1.93	69	191584	49.04	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	98.08%
11) 1,1-Dichloroethene-d2	2.59	63	439449	53.86	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	107.72%
21) 2-Butanone-d5	4.67	46	451029	112.93	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	112.93%
24) Chloroform-d	5.10	84	359576	46.84	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.68%
26) 1,2-Dichloroethane-d4	5.74	65	255942	48.15	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.30%
32) Benzene-d6	5.76	84	780456	49.01	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.02%
36) 1,2-Dichloropropane-d6	6.72	67	265703	49.89	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.78%
41) Toluene-d8	7.92	98	723792	49.45	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.90%
43) trans-1,3-Dichloropropene-	8.20	79	136109	49.65	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	99.30%
47) 2-Hexanone-d5	8.65	63	336213	115.97	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	115.97%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	308630	41.65	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	83.30%
64) 1,2-Dichlorobenzene-d4	12.20	152	274456	62.71	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	125.42%#

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	4834451	844.709	ug/L	98
8) Chloroethane	1.95	64	199957	62.183	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	3028	0.854	ug/L #	23
12) 1,1-Dichloroethene	2.61	96	257061	73.399	ug/L	83
13) Acetone	2.66	43	94507	39.662	ug/L	100
14) Carbon disulfide	2.83	76	48387	3.863	ug/L	100
15) Methyl Acetate	2.98	43	7725	1.341	ug/L	99
16) Methylene chloride	3.08	84	1133972	272.485	ug/L	98
17) trans-1,2-Dichloroethene	3.39	96	11409	2.913	ug/L	90
19) 1,1-Dichloroethane	3.91	63	2544323	322.325	ug/L	100
20) cis-1,2-Dichloroethene	4.71	96	9515430	2219.308	ug/L	98
22) 2-Butanone	4.75	43	84938	20.357	ug/L #	50
27) 1,2-Dichloroethane	5.83	62	21261	3.361	ug/L	100
30) 1,1,1-Trichloroethane	5.36	97	2760728	439.018	ug/L	99
34) Trichloroethene	6.57	95	775310	184.942	ug/L	99
40) 4-Methyl-2-pentanone	7.82	43	21240	2.616	ug/L	96
42) Toluene	7.99	91	298021	16.632	ug/L	99

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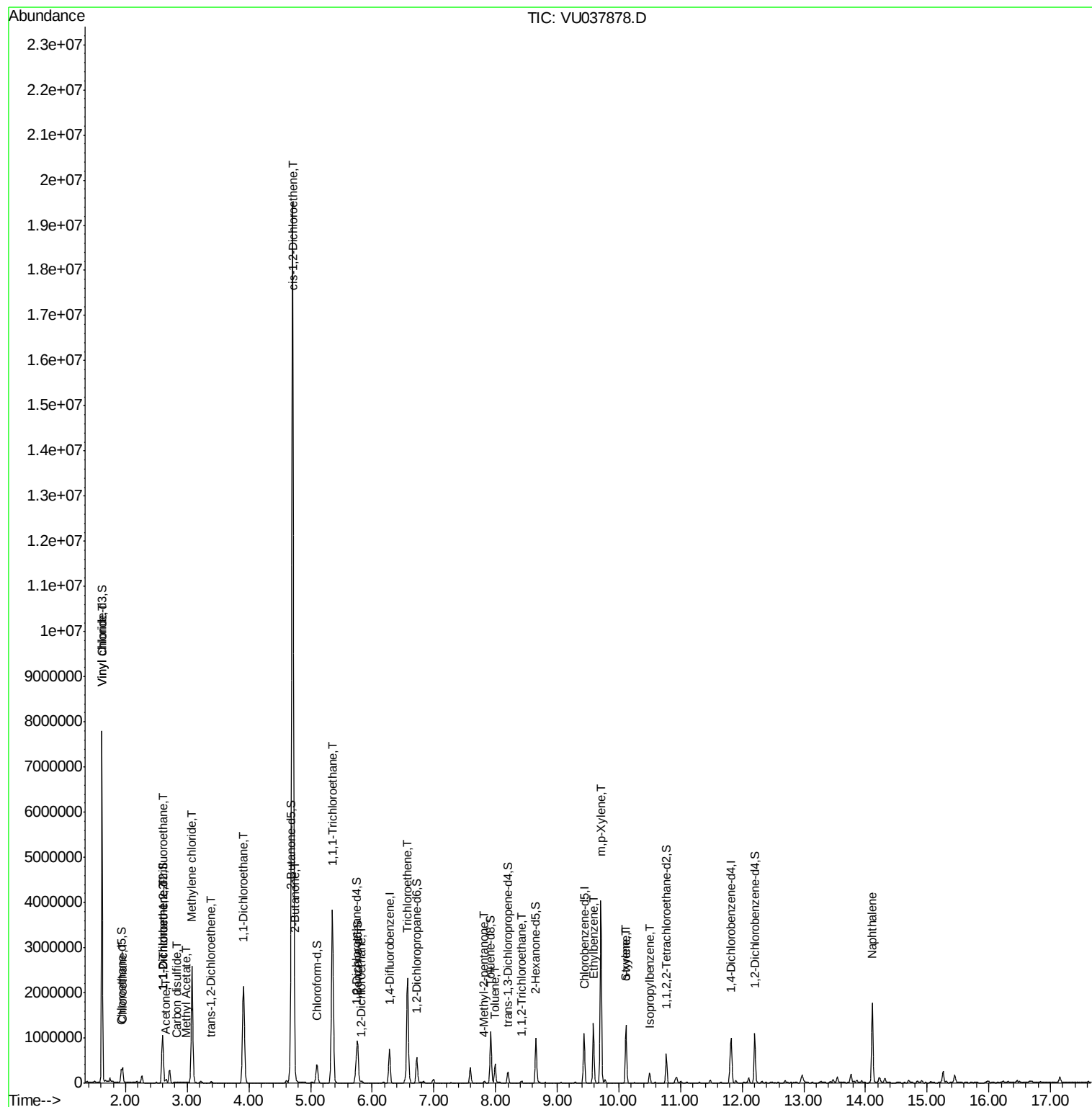
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,1,2-Trichloroethane	8.42	97	12565	3.086	ug/L	86
52) Ethylbenzene	9.59	91	910696	45.384	ug/L	99
53) m,p-Xylene	9.71	106	1098847	145.443	ug/L	100
54) o-xylene	10.11	106	332523	45.002	ug/L	99
55) Styrene	10.11	104	16804	1.322	ug/L #	1
56) Isopropylbenzene	10.50	105	136812	6.996	ug/L	99
69) Naphthalene	14.11	128	1333770	74.727	ug/L	99

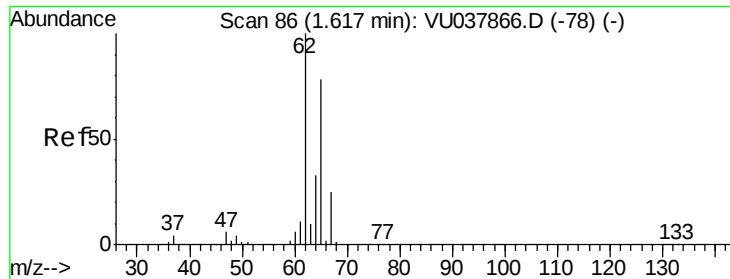
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 844.709 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU037878.D

Acq: 24 Apr 2020 17:56

Instrument :

MSVOA_U

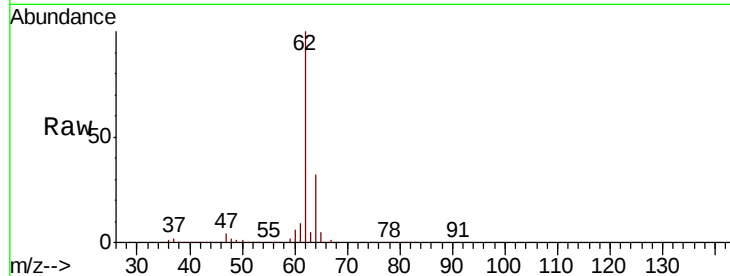
ClientSampleId :

Tot Ion: 62 Resp: 4834451

Ion Ratio Lower Upper

62 100

64 32.2 23.2 43.0



Abundance Ion 62.00 (61.70 to 62.70): VU037866.D (-78) (-)

Ion 64.00 (63.70 to 64.70): VU037866.D (-78) (-)

1.62

5000000

4000000

3000000

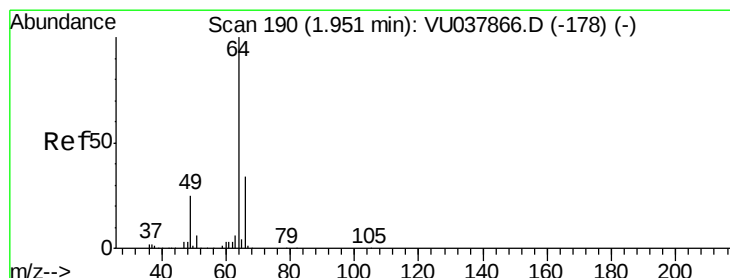
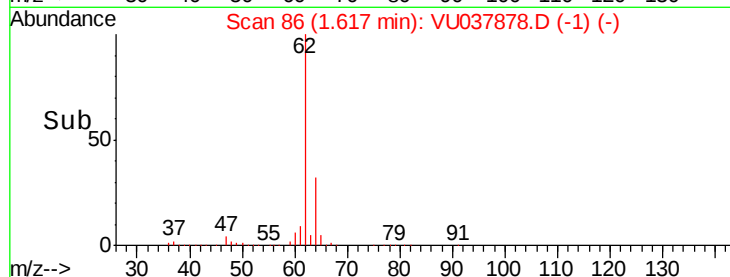
2000000

1000000

0

Time-->

1.55 1.60 1.65 1.70



#8

Chloroethane

Concen: 62.183 ug/L

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU037878.D

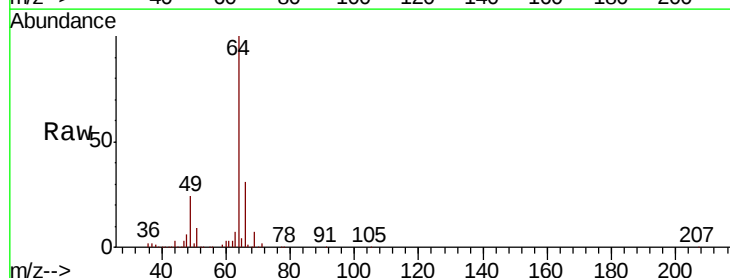
Acq: 24 Apr 2020 17:56

Tgt Ion: 64 Resp: 199957

Ion Ratio Lower Upper

64 100

66 31.2 22.3 41.3



Abundance Ion 64.00 (63.70 to 64.70): VU037866.D (-178) (-)

Ion 66.00 (65.70 to 66.70): VU037866.D (-178) (-)

1.95

150000

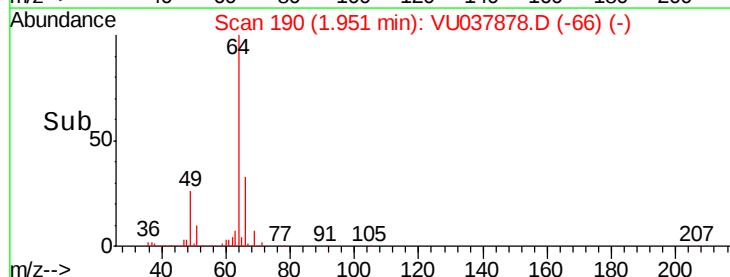
100000

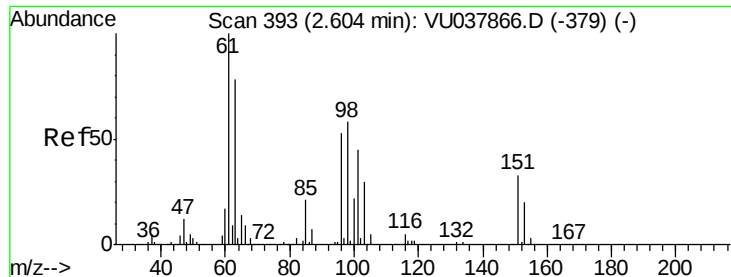
50000

0

Time-->

1.90 1.95 2.00





#10

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

Concen: 0.854 ug/L

RT: 2.59 min Scan# 390

Delta R.T. -0.01 min

Lab File: VU037878.D

Acq: 24 Apr 2020 17:56

Instrument :

MSVOA_U

ClientSampleId :

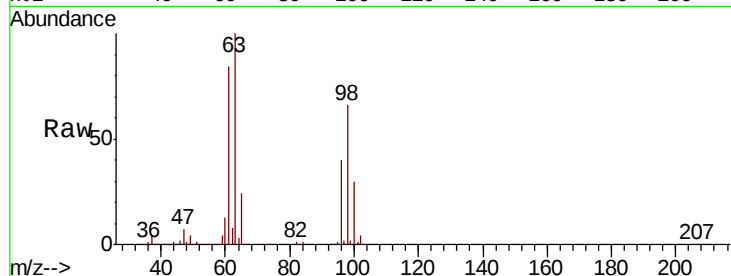
Tot Ion:101 Resp: 3028

Ion Ratio Lower Upper

101 100

85 2.9 36.2 54.4#

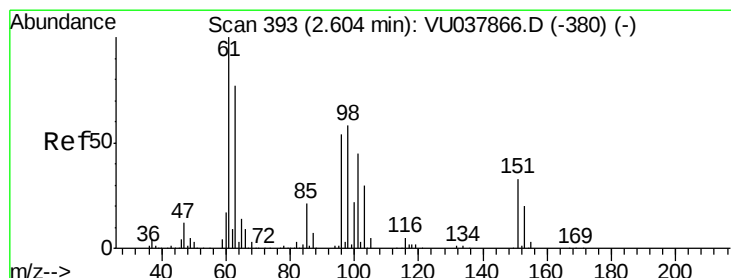
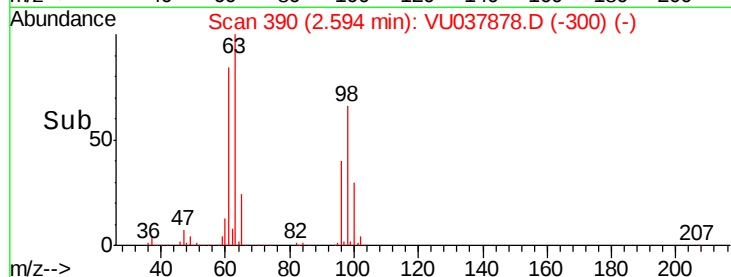
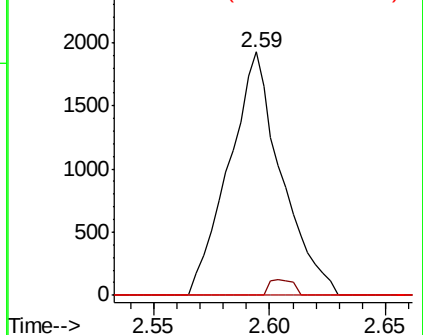
151 0.0 55.5 83.3#



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



#12

1,1-Dichloroethene

Concen: 73.399 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU037878.D

Acq: 24 Apr 2020 17:56

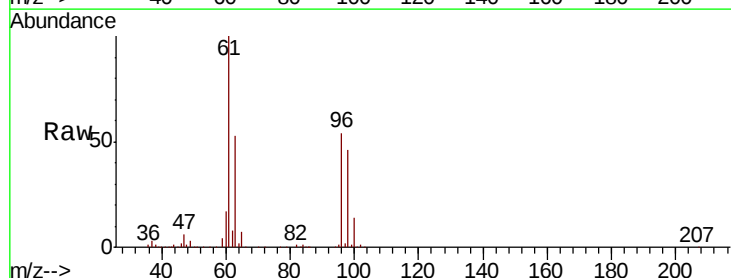
Tgt Ion: 96 Resp: 257061

Ion Ratio Lower Upper

96 100

61 184.3 134.1 249.0

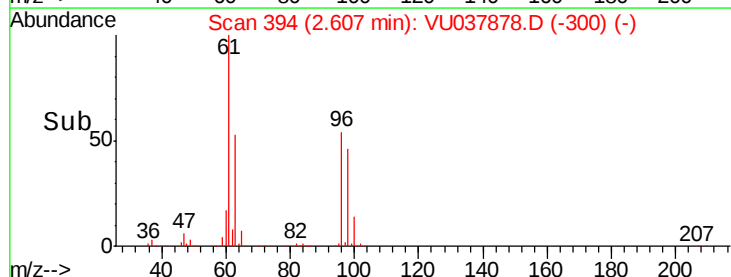
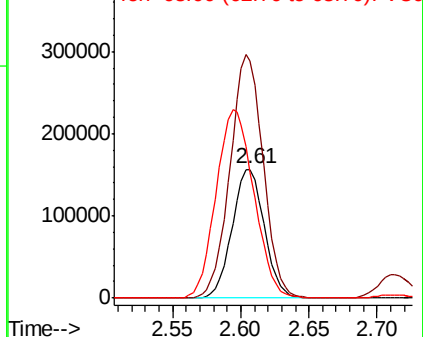
63 97.5 96.5 179.1

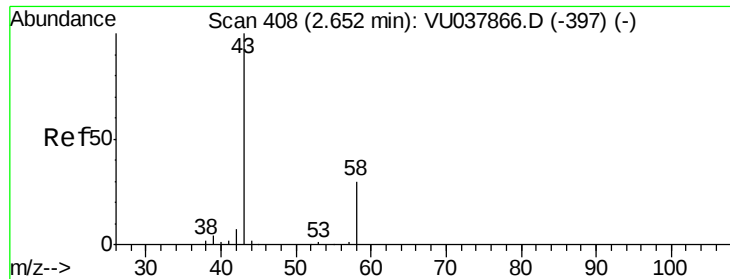


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 39.662 ug/L

RT: 2.66 min Scan# 409

Delta R.T. 0.00 min

Lab File: VU037878.D

Acq: 24 Apr 2020 17:56

Instrument :

MSVOA_U

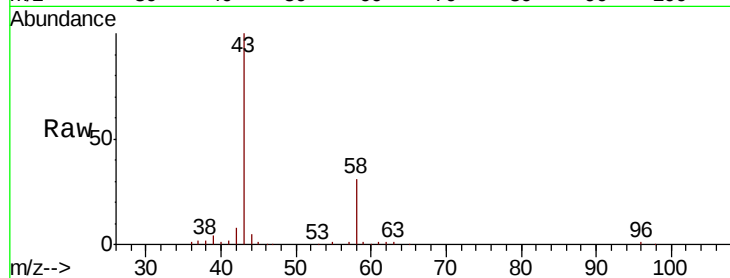
ClientSampleId :

Tot Ion: 43 Resp: 94507

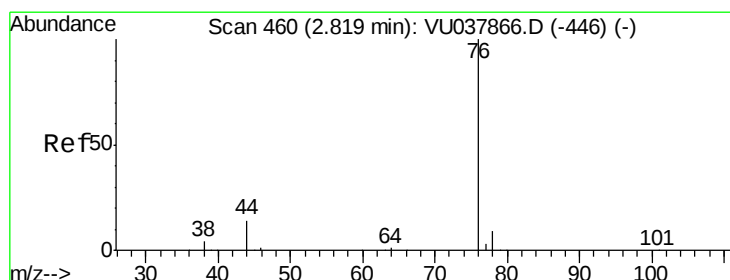
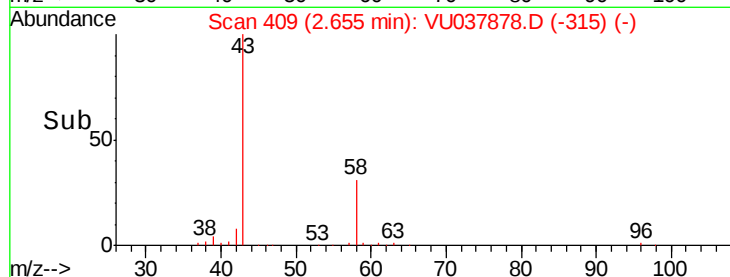
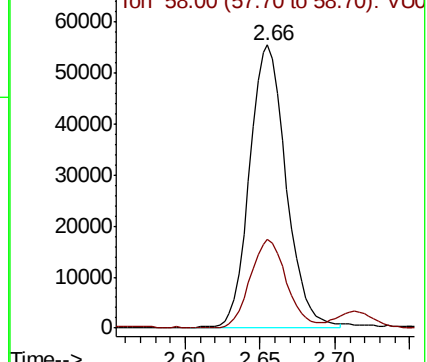
Ion Ratio Lower Upper

43 100

58 31.1 0.0 62.0



Abundance Ion 43.00 (42.70 to 43.70): VU037866.D (-397) (-)



#14

Carbon disulfide

Concen: 3.863 ug/L

RT: 2.83 min Scan# 463

Delta R.T. 0.01 min

Lab File: VU037878.D

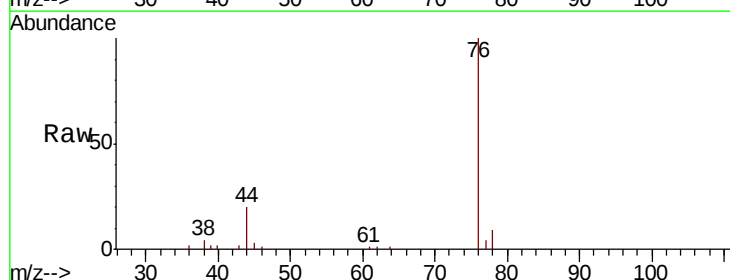
Acq: 24 Apr 2020 17:56

Tgt Ion: 76 Resp: 48387

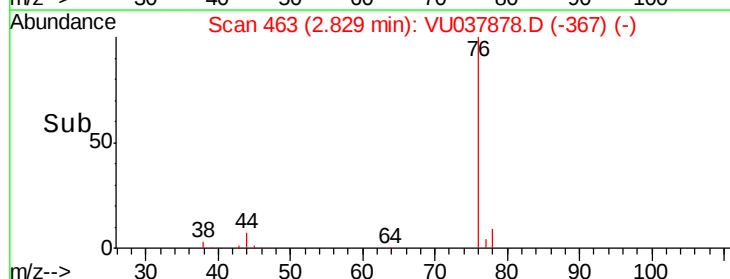
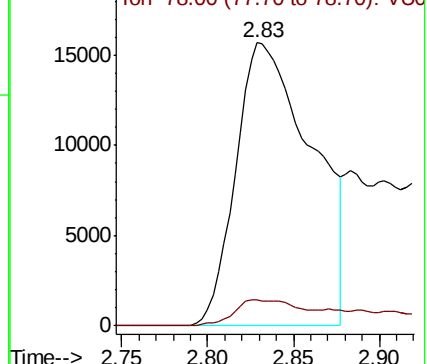
Ion Ratio Lower Upper

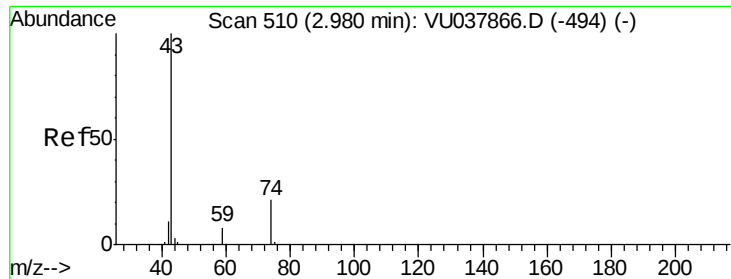
76 100

78 9.1 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU037866.D (-446) (-)





#15

Methvl Acetate

Concen: 1.341 ug/L

RT: 2.98 min Scan# 511

Delta R.T. 0.00 min

Lab File: VU037878.D

Acq: 24 Apr 2020 17:56

Instrument :

MSVOA_U

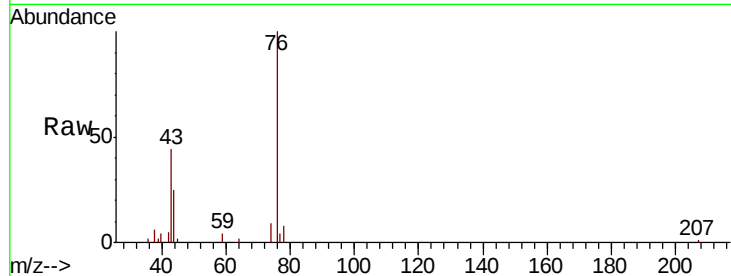
ClientSampleId :

Tot Ion: 43 Resp: 7725

Ion Ratio Lower Upper

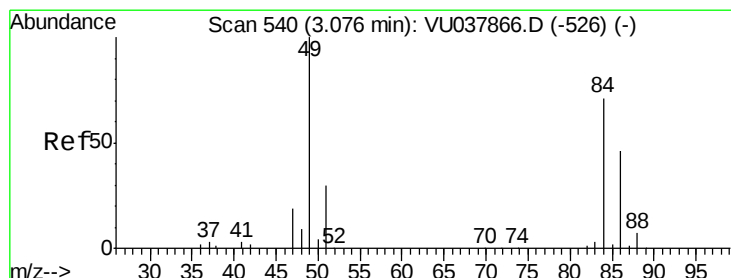
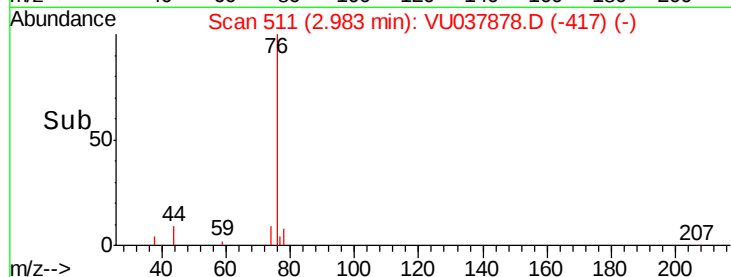
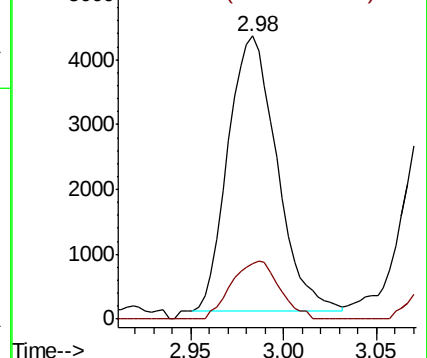
43 100

74 20.7 17.0 25.4



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0



#16

Methylene chloride

Concen: 272.485 ug/L

RT: 3.08 min Scan# 540

Delta R.T. 0.00 min

Lab File: VU037878.D

Acq: 24 Apr 2020 17:56

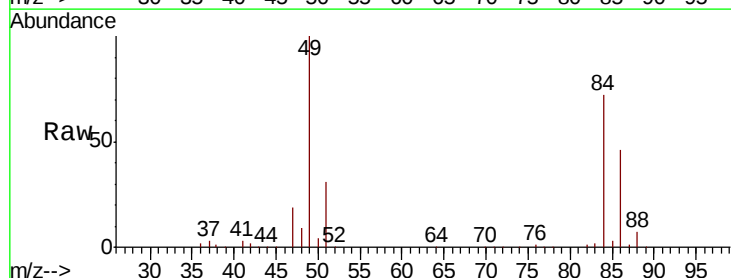
Tgt Ion: 84 Resp: 1133972

Ion Ratio Lower Upper

84 100

86 63.4 43.5 80.7

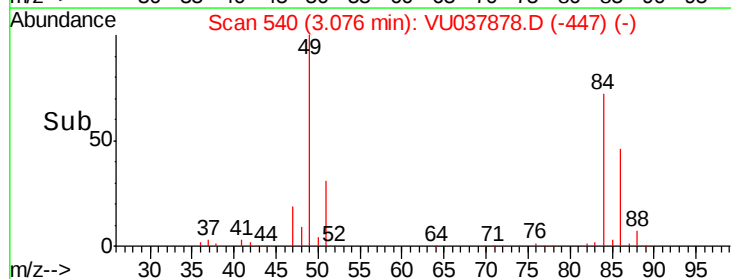
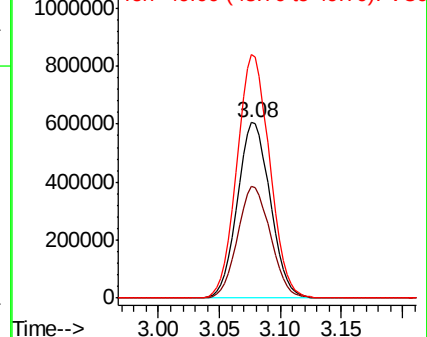
49 138.6 95.1 176.7

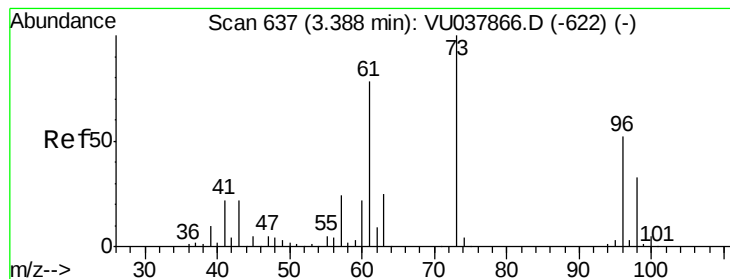


Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0





#17

trans-1,2-Dichloroethene

Concen: 2.913 ug/L

RT: 3.39 min Scan# 637

Delta R.T. 0.00 min

Lab File: VU037878.D

Acq: 24 Apr 2020 17:56

Instrument :
MSVOA_U
ClientSampled :

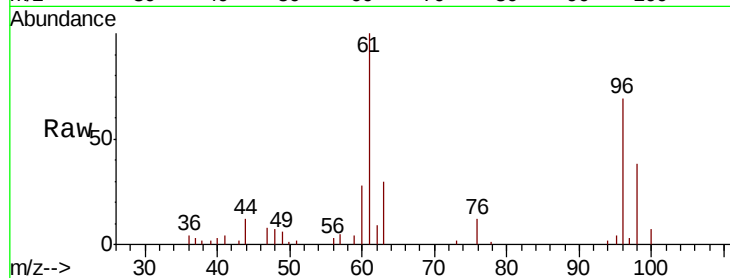
Tot Ion: 96 Resp: 11409

Ion Ratio Lower Upper

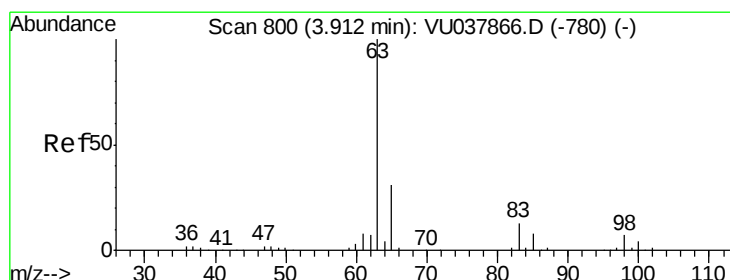
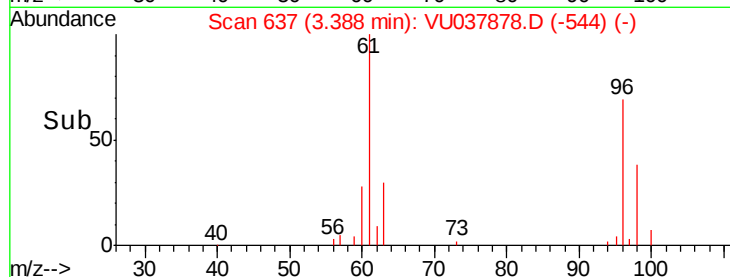
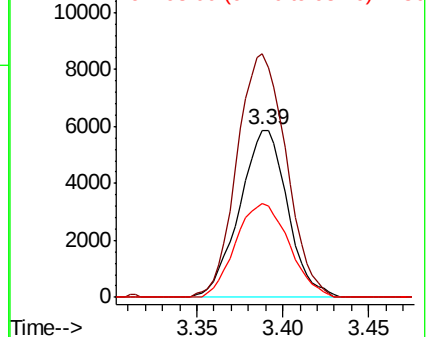
96 100

61 145.8 111.4 207.0

98 56.1 43.9 81.5



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0



#19

1,1-Dichloroethane

Concen: 322.325 ug/L

RT: 3.91 min Scan# 800

Delta R.T. 0.00 min

Lab File: VU037878.D

Acq: 24 Apr 2020 17:56

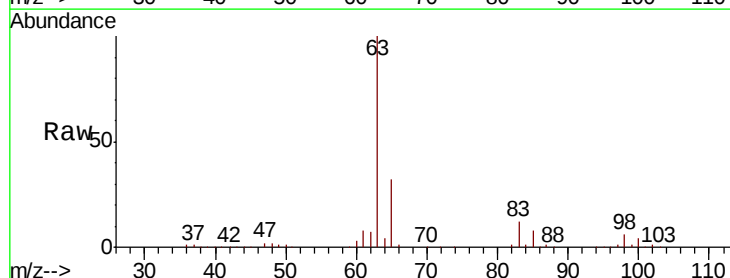
Tgt Ion: 63 Resp: 2544323

Ion Ratio Lower Upper

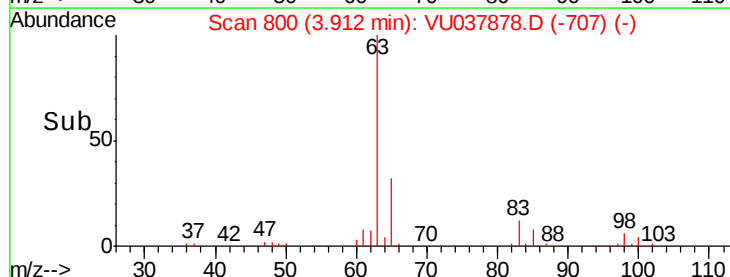
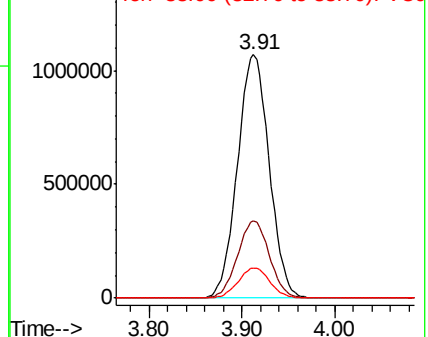
63 100

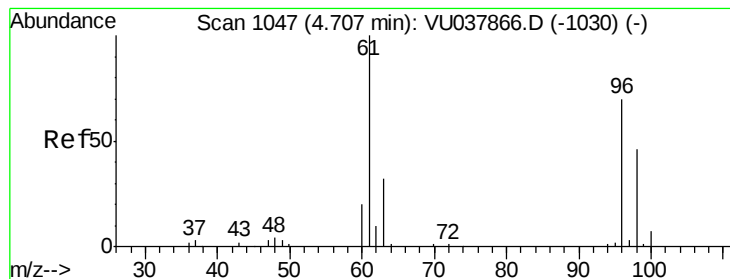
65 31.6 22.2 41.2

83 12.4 8.6 16.0



Abundance Ion 63.00 (62.70 to 63.70): VU0
Ion 65.00 (64.70 to 65.70): VU0
Ion 83.00 (82.70 to 83.70): VU0





#20

cis-1,2-Dichloroethene

Concen: 2219.308 ug/L

RT: 4.71 min Scan# 1048

Delta R.T. 0.00 min

Lab File: VU037878.D

Acq: 24 Apr 2020 17:56

Instrument :

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ClientSampleId :

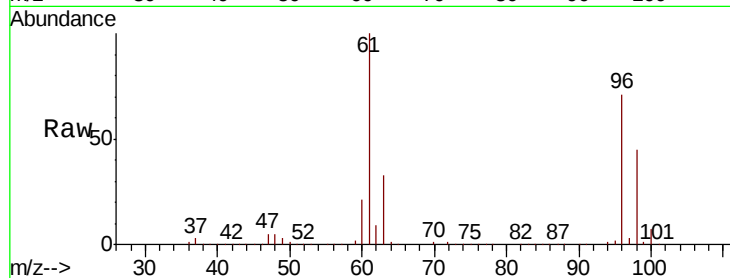
Tot Ion: 96 Resp: 9515430

Ion Ratio Lower Upper

96 100

61 140.8 100.4 186.4

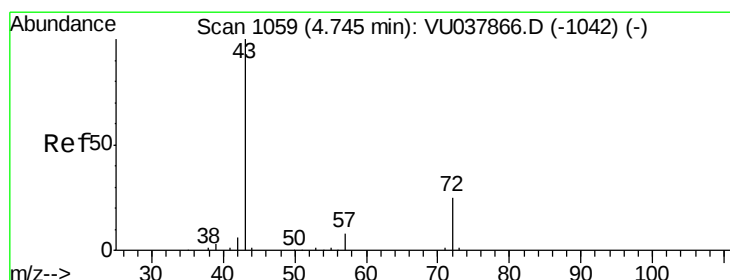
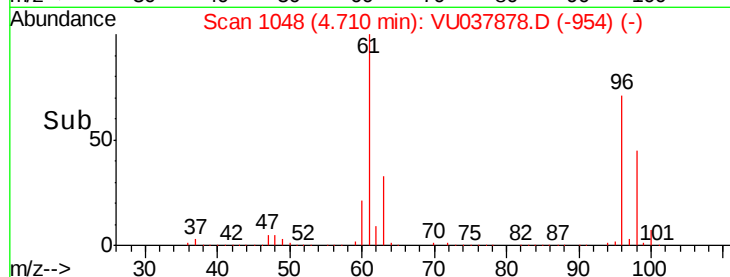
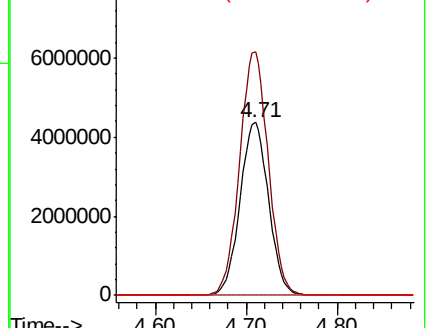
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU037866.D (-1030) (-)

Ion 61.00 (60.70 to 61.70): VU037866.D (-1030) (-)

Ion 68.00 (67.70 to 68.70): VU037866.D (-1030) (-)



#22

2-Butanone

Concen: 20.357 ug/L

RT: 4.75 min Scan# 1060

Delta R.T. 0.00 min

Lab File: VU037878.D

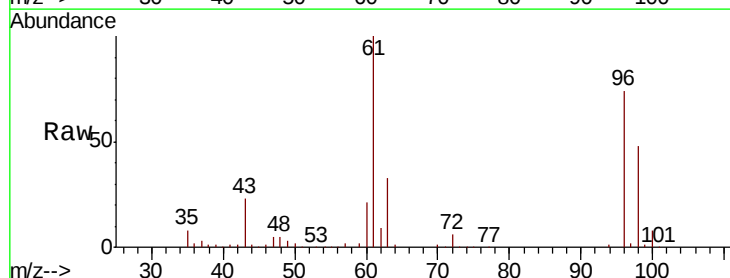
Acq: 24 Apr 2020 17:56

Tgt Ion: 43 Resp: 84938

Ion Ratio Lower Upper

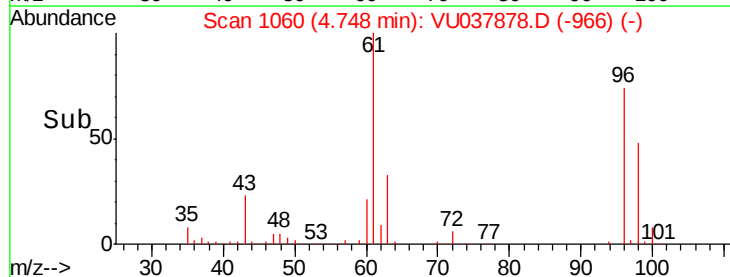
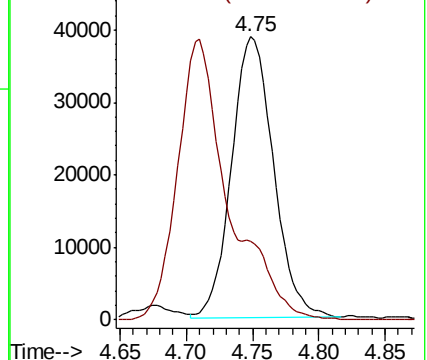
43 100

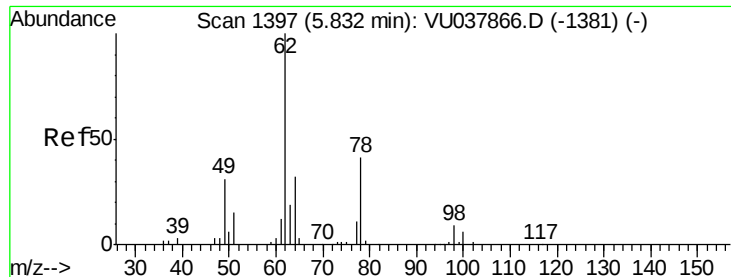
72 0.0 12.6 37.6#



Abundance Ion 43.00 (42.70 to 43.70): VU037866.D (-1042) (-)

Ion 72.00 (71.70 to 72.70): VU037866.D (-1042) (-)

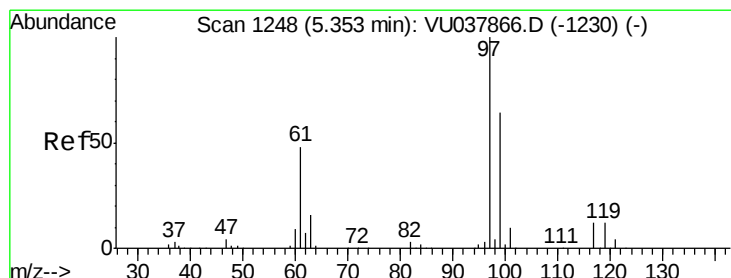
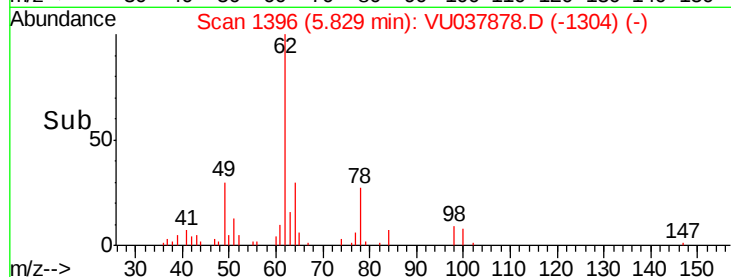
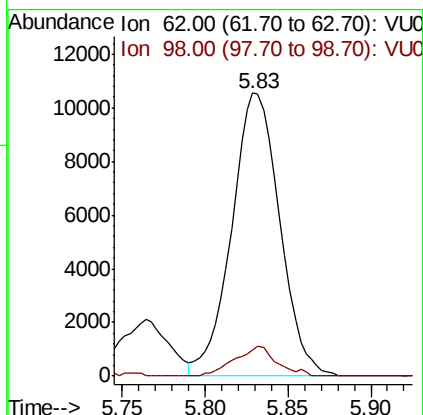
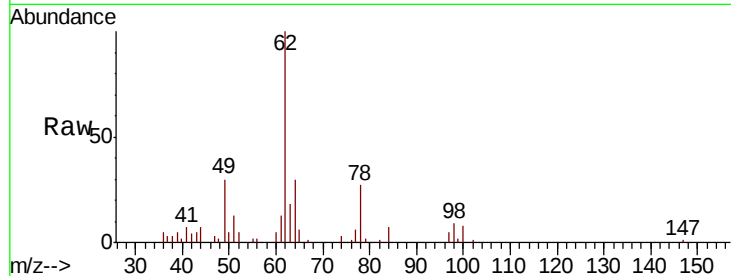




#27
 1,2-Dichloroethane
 Concen: 3.361 ug/L
 RT: 5.83 min Scan# 1396
 Delta R.T. -0.00 min
 Lab File: VU037878.D
 Acq: 24 Apr 2020 17:56

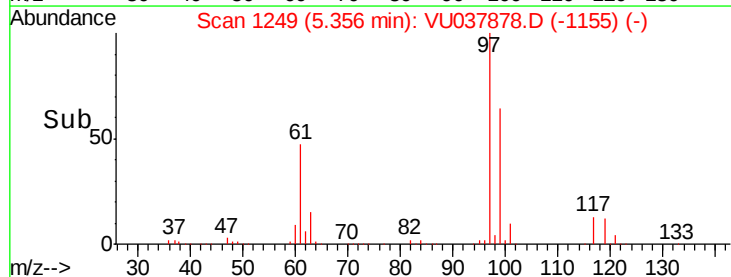
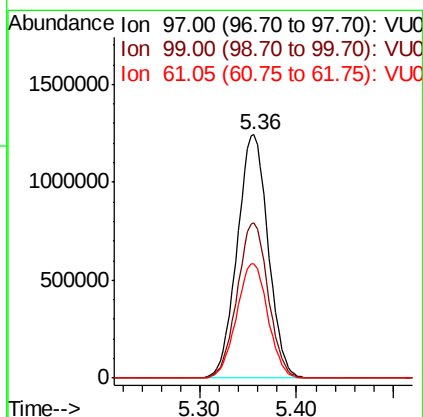
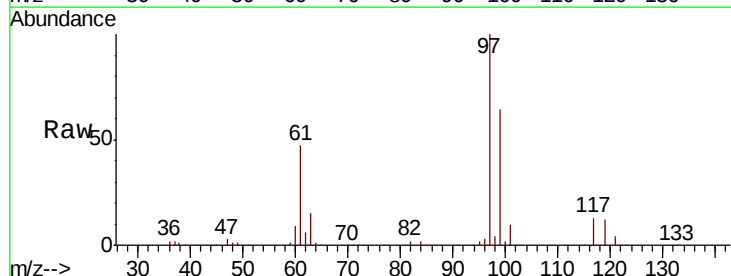
Instrument :
 MSVOA_U
 ClientSampleId :

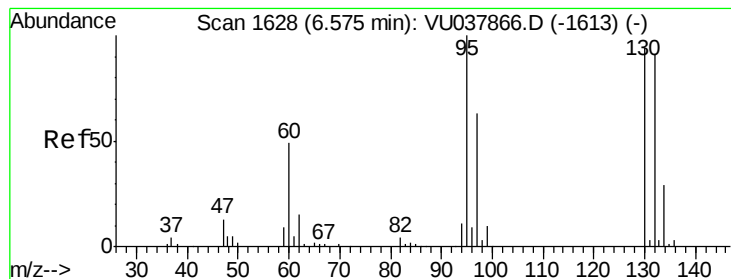
Tot Ion: 62 Resp: 21261
 Ion Ratio Lower Upper
 62 100
 98 9.2 7.3 10.9



#30
 1,1,1-Trichloroethane
 Concen: 439.018 ug/L
 RT: 5.36 min Scan# 1249
 Delta R.T. 0.00 min
 Lab File: VU037878.D
 Acq: 24 Apr 2020 17:56

Tgt Ion: 97 Resp: 2760728
 Ion Ratio Lower Upper
 97 100
 99 64.0 50.7 76.1
 61 47.6 38.9 58.3





#34

Trichloroethene

Concen: 184.942 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. -0.00 min

Lab File: VU037878.D

Acq: 24 Apr 2020 17:56

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 775310

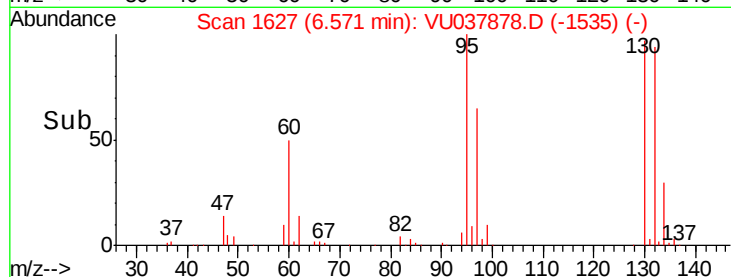
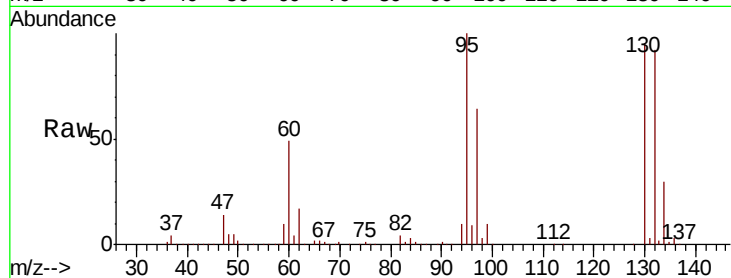
Ion Ratio Lower Upper

95 100

97 64.0 44.4 82.5

132 91.8 65.0 120.6

130 95.4 65.5 121.7

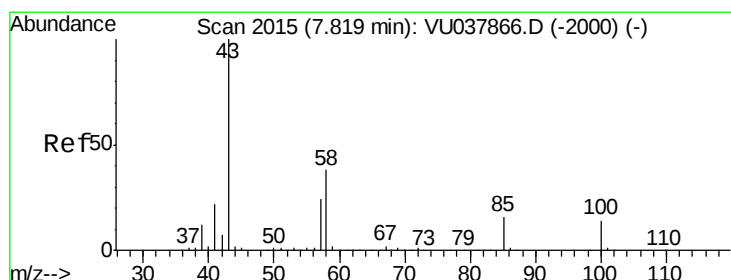
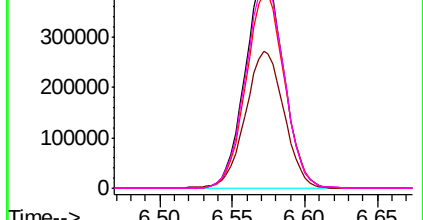


Abundance Ion 95.00 (94.70 to 95.70): VU037878.D (-1535) (-)

Ion 97.00 (96.70 to 97.70): VU037878.D (-1535) (-)

Ion 132.00 (131.70 to 132.70): VU037878.D (-1535) (-)

Ion 130.00 (129.70 to 130.70): VU037878.D (-1535) (-)



#40

4-Methyl-2-pentanone

Concen: 2.616 ug/L

RT: 7.82 min Scan# 2014

Delta R.T. -0.00 min

Lab File: VU037878.D

Acq: 24 Apr 2020 17:56

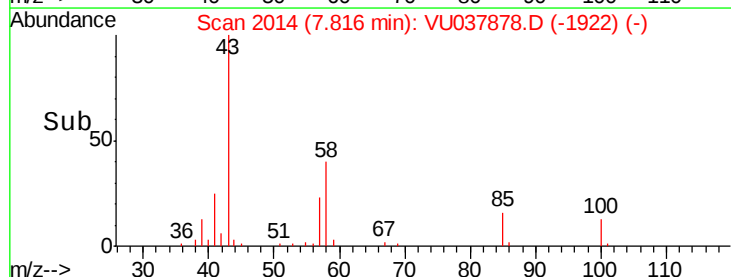
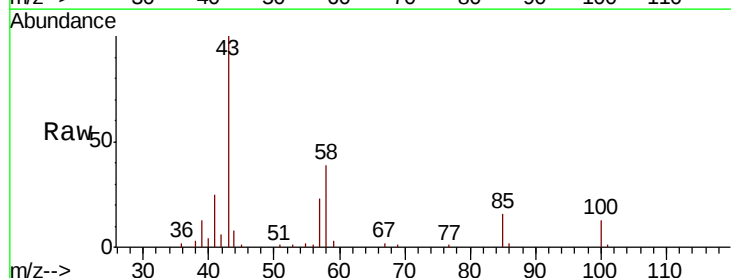
Tgt Ion: 43 Resp: 21240

Ion Ratio Lower Upper

43 100

58 40.8 30.2 45.2

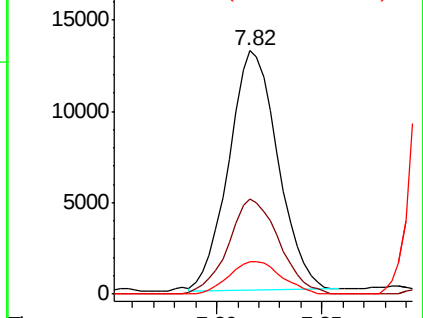
100 14.3 10.9 16.3

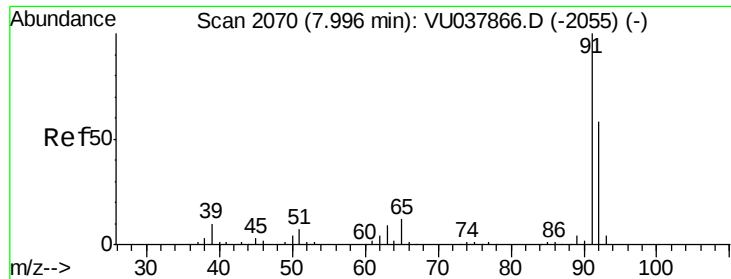


Abundance Ion 43.00 (42.70 to 43.70): VU037878.D (-1922) (-)

Ion 58.00 (57.70 to 58.70): VU037878.D (-1922) (-)

Ion 100.00 (99.70 to 100.70): VU037878.D (-1922) (-)





#42

Toluene

Concen: 16.632 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. -0.00 min

Lab File: VU037878.D

Acq: 24 Apr 2020 17:56

Instrument :

MSVOA_U

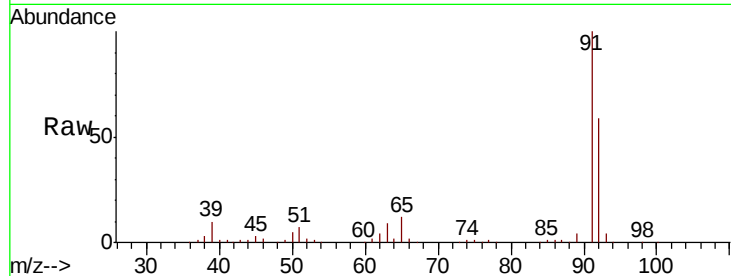
ClientSampleId :

Tot Ion: 91 Resp: 298021

Ion Ratio Lower Upper

91 100

92 59.5 41.2 76.6



Abundance Ion 91.00 (90.70 to 91.70): VU037866.D (-2055) (-)

Ion 92.00 (91.70 to 92.70): VU037866.D (-2055) (-)

7.99

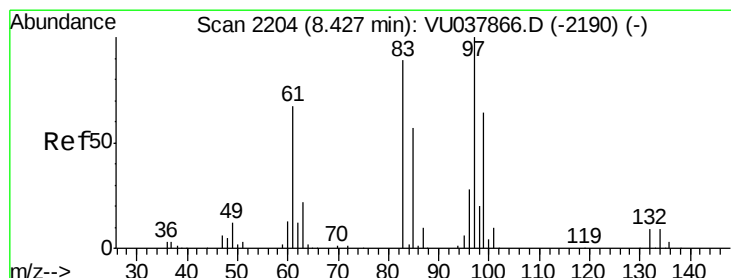
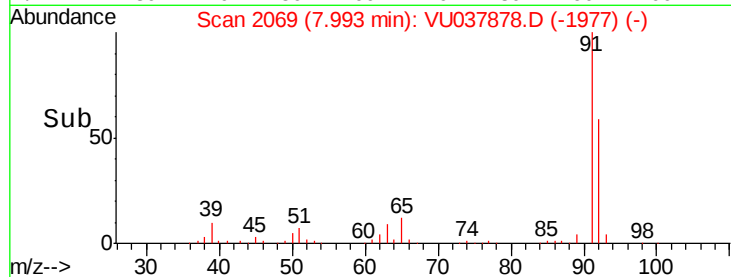
150000

100000

50000

0

Time-->



#45

1,1,2-Trichloroethane

Concen: 3.086 ug/L

RT: 8.42 min Scan# 2203

Delta R.T. -0.00 min

Lab File: VU037878.D

Acq: 24 Apr 2020 17:56

Tgt Ion: 97 Resp: 12565

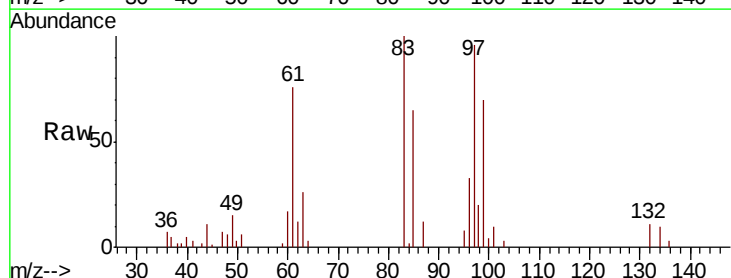
Ion Ratio Lower Upper

97 100

99 72.9 44.0 81.6

83 103.7 62.6 116.2

85 67.8 40.0 74.4



Abundance Ion 97.00 (96.70 to 97.70): VU037866.D (-2190) (-)

Ion 99.00 (98.70 to 99.70): VU037866.D (-2190) (-)

Ion 83.00 (82.70 to 83.70): VU037866.D (-2190) (-)

Ion 85.00 (84.70 to 85.70): VU037866.D (-2190) (-)

8.42

10000

8000

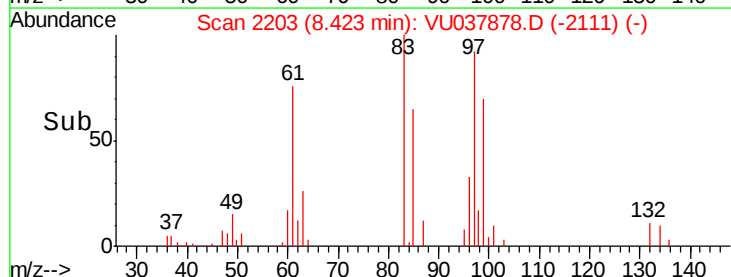
6000

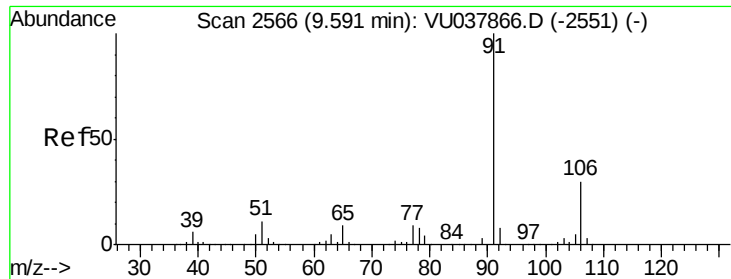
4000

2000

0

Time-->

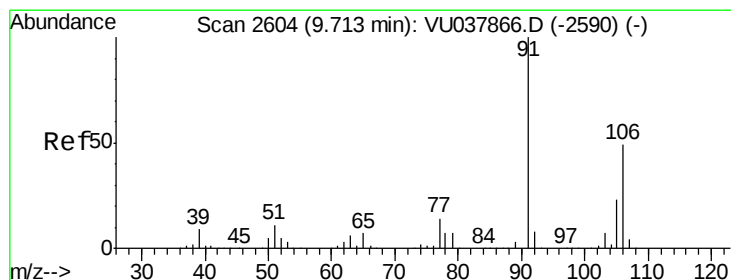
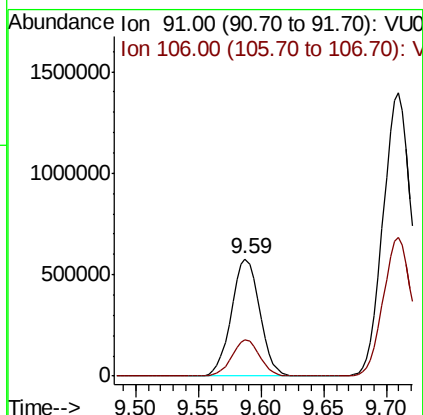
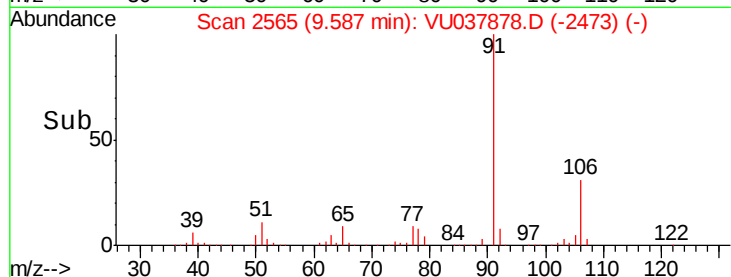
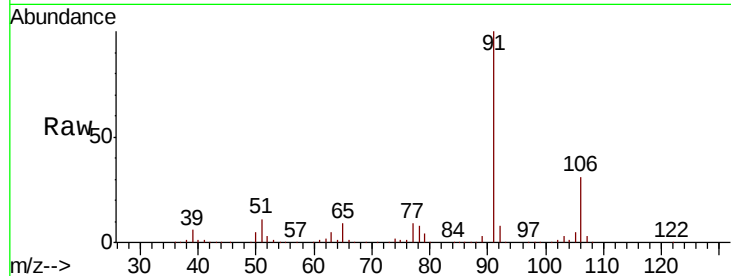




#52
Ethylbenzene
Concen: 45.384 ug/L
RT: 9.59 min Scan# 2565
Delta R.T. -0.00 min
Lab File: VU037878.D
Acq: 24 Apr 2020 17:56

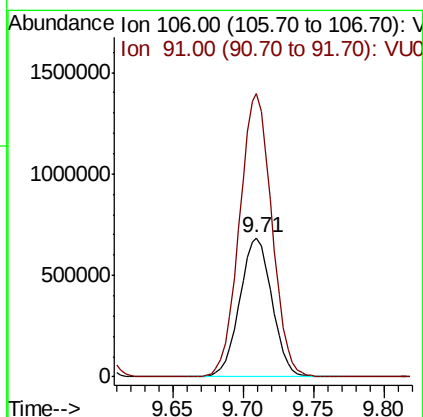
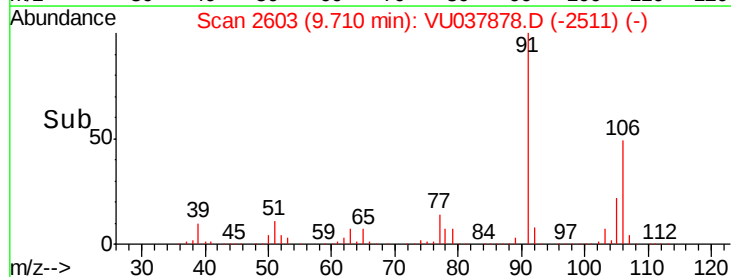
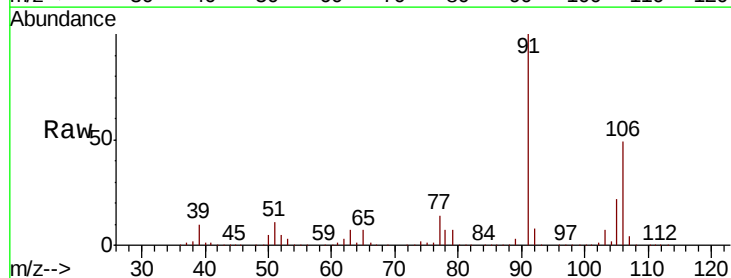
Instrument :
MSVOA_U
ClientSampleId :

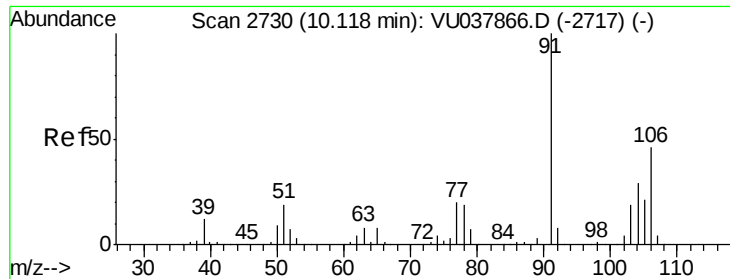
Tot Ion: 91 Resp: 910696
Ion Ratio Lower Upper
91 100
106 30.8 21.1 39.1



#53
m,p-Xylene
Concen: 145.443 ug/L
RT: 9.71 min Scan# 2603
Delta R.T. -0.00 min
Lab File: VU037878.D
Acq: 24 Apr 2020 17:56

Tgt Ion: 106 Resp: 1098847
Ion Ratio Lower Upper
106 100
91 203.2 142.8 265.2





#54

o-xylene

Concen: 45.002 ug/L

RT: 10.11 min Scan# 2729

Delta R.T. -0.00 min

Lab File: VU037878.D

Acq: 24 Apr 2020 17:56

Instrument :

MSVOA_U

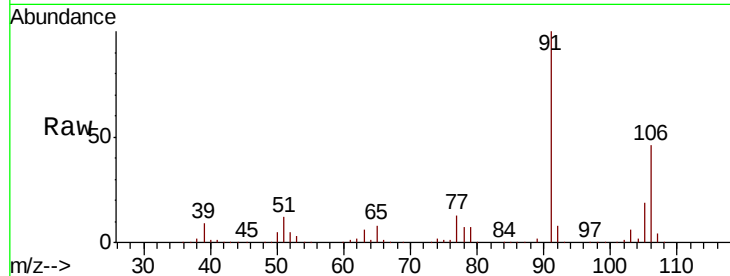
ClientSampled :

Tot Ion:106 Resp: 332523

Ion Ratio Lower Upper

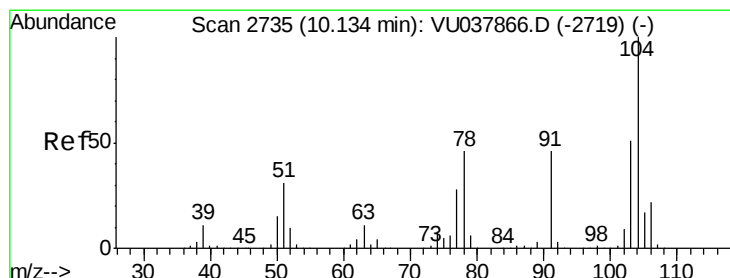
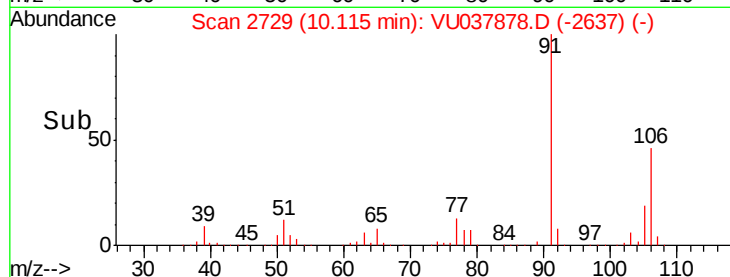
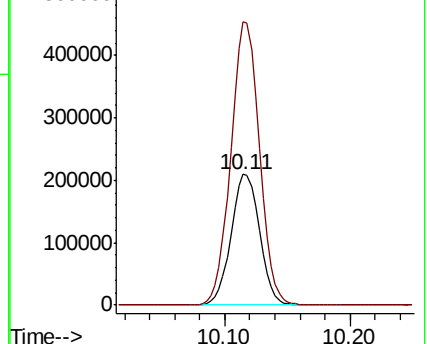
106 100

91 216.1 150.6 279.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 1.322 ug/L

RT: 10.11 min Scan# 2729

Delta R.T. -0.02 min

Lab File: VU037878.D

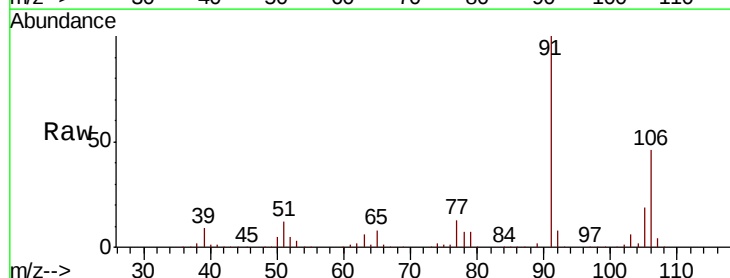
Acq: 24 Apr 2020 17:56

Tgt Ion:104 Resp: 16804

Ion Ratio Lower Upper

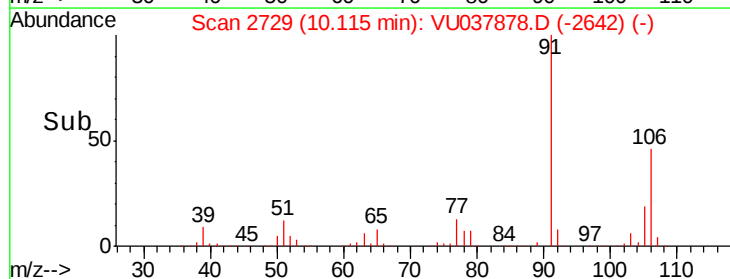
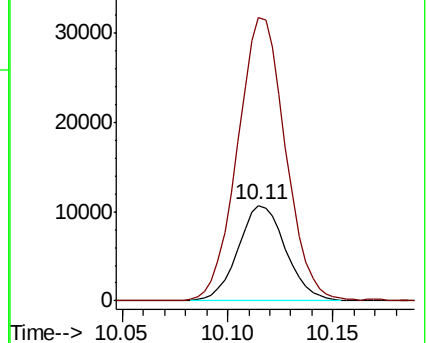
104 100

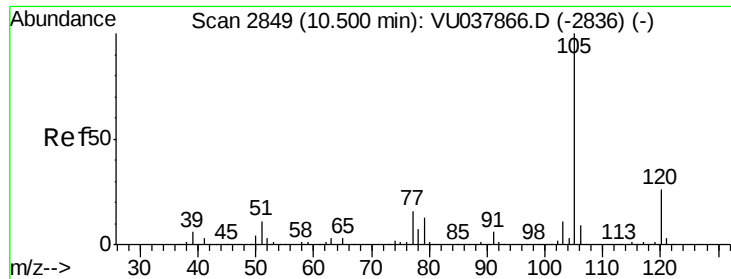
78 295.3 32.6 60.6#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 6.996 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. 0.00 min

Lab File: VU037878.D

Acq: 24 Apr 2020 17:56

Instrument :

MSVOA_U

ClientSampleId :

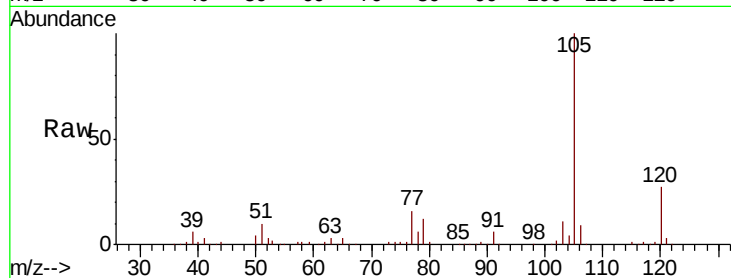
Tot Ion:105 Resp: 136812

Ion Ratio Lower Upper

105 100

120 26.4 20.6 31.0

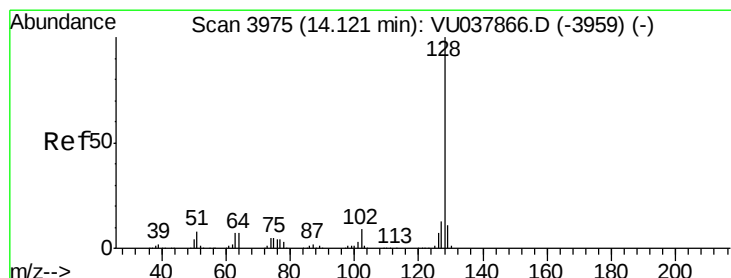
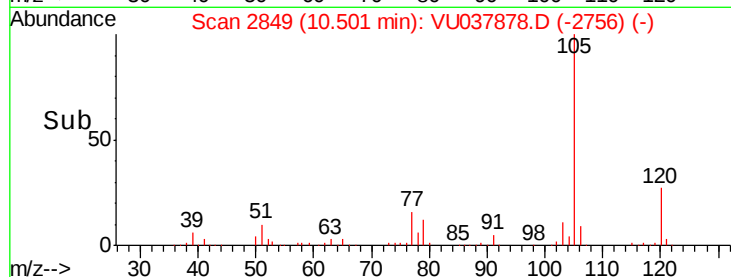
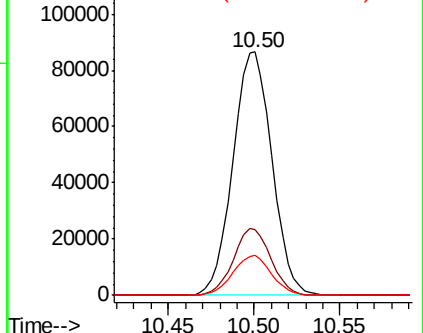
77 16.1 13.0 19.4



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): V



#69

Naphthalene

Concen: 74.727 ug/L

RT: 14.11 min Scan# 3972

Delta R.T. -0.01 min

Lab File: VU037878.D

Acq: 24 Apr 2020 17:56

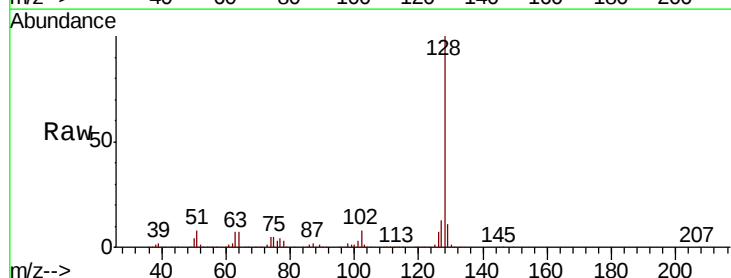
Tgt Ion:128 Resp: 1333770

Ion Ratio Lower Upper

128 100

127 13.3 10.5 15.7

129 11.1 8.6 13.0



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

