

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U111720\
 Data File : VU041295.D
 Acq On : 17 Nov 2020 23:02
 Operator : SY/MD
 Sample : L4740-12
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GB117

Quant Time: Nov 18 00:08:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR111620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Nov 18 00:06:52 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	64479	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	64510	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	26753	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	22833	4.81	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	96.20%
7) Chloroethane-d5	1.92	69	19483	4.80	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	96.00%
11) 1,1-Dichloroethene-d2	2.58	63	33292	3.40	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	68.00%
20) 2-Butanone-d5	4.66	46	88094	45.05	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	90.10%
24) Chloroform-d	5.08	84	46342	4.52	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.40%
26) 1,2-Dichloroethane-d4	5.72	65	30123	4.50	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.00%
32) Benzene-d6	5.74	84	83082	4.78	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.60%
36) 1,2-Dichloropropane-d6	6.70	67	28137	4.69	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.80%
41) Toluene-d8	7.91	98	65725	4.01	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	80.20%
43) trans-1,3-Dichloropropene-	8.19	79	11194	4.34	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.80%
46) 2-Hexanone-d5	8.64	63	61519	44.65	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	89.30%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	25659	4.41	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	88.20%
64) 1,2-Dichlorobenzene-d4	12.19	152	24883	4.77	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.53	50	283	0.049	ug/L #	43
5) Vinyl chloride	1.61	62	216856	38.741	ug/L	99
8) Chloroethane	1.94	64	145	0.039	ug/L #	43
12) 1,1-Dichloroethene	2.59	96	1909	0.455	ug/L #	1
13) Acetone	2.66	43	31951	24.629	ug/L #	62
14) Carbon disulfide	2.81	76	658	0.053	ug/L #	74
15) Methyl Acetate	3.10	43	557	0.207	ug/L #	53
18) trans-1,2-Dichloroethene	3.37	96	3342	0.818	ug/L	89
19) 1,1-Dichloroethane	3.89	63	5608	0.614	ug/L	98
21) 2-Butanone	4.74	43	4198	2.131	ug/L #	52
22) cis-1,2-Dichloroethene	4.69	96	345544	74.846	ug/L	97
25) Chloroform	5.11	83	668	0.067	ug/L	94
27) 1,2-Dichloroethane	5.74	62	468	0.066	ug/L #	74
33) Benzene	5.79	78	4514	0.258	ug/L	100
34) Trichloroethene	6.55	95	95877	20.292	ug/L	99
35) Methylcyclohexane	6.78	83	791	0.126	ug/L #	83
37) 1,2-Dichloropropane	6.70	63	3254	0.637	ug/L #	86

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Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Nov 18 00:06:52 2020
Response via : Initial Calibration

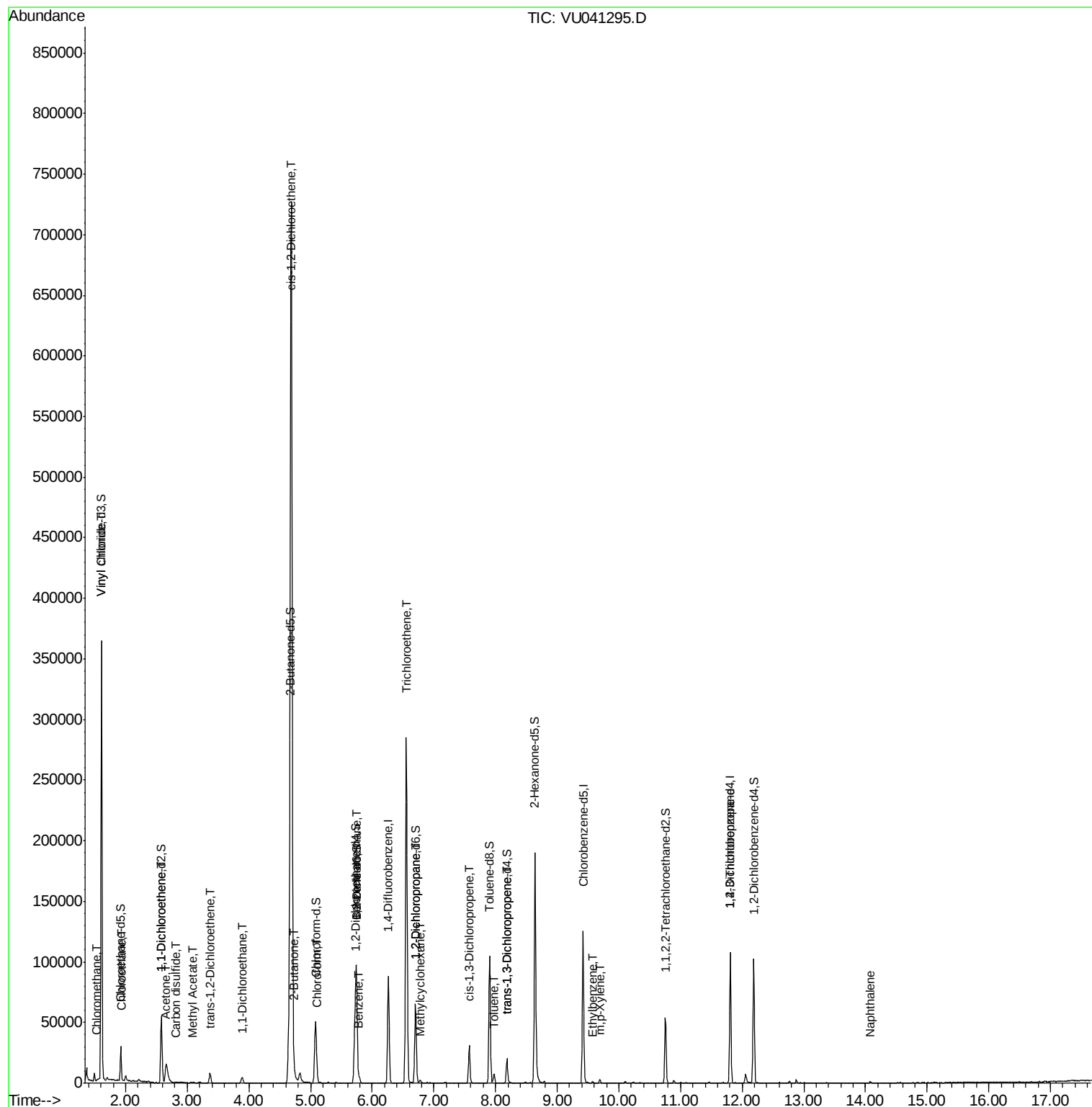
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) cis-1,3-Dichloropropene	7.57	75	761	0.107	ug/L #	73
42) Toluene	7.98	91	5555	0.297	ug/L	90
44) trans-1,3-Dichloropropene	8.19	75	258	0.038	ug/L	90
52) Ethylbenzene	9.57	91	1170	0.059	ug/L	92
53) m,p-Xylene	9.69	106	864	0.120	ug/L	83
59) 1,2,3-Trichloropropane	11.81	75	3567	0.885	ug/L	91
69) Naphthalene	14.08	128	1352	0.175	ug/L #	71

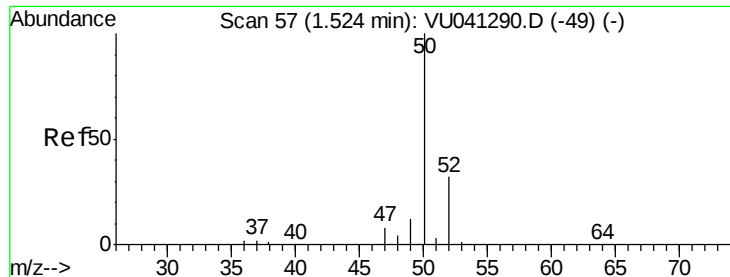
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.049 ug/L

RT: 1.53 min Scan# 59

Delta R.T. 0.01 min

Lab File: VU041295.D

Acq: 17 Nov 2020 23:02

Instrument :

MSVOA_U

ClientSampleId :

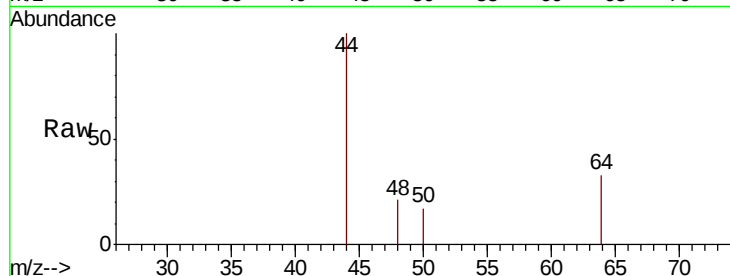
GB117

Tot Ion: 50 Resp: 283

Ion Ratio Lower Upper

50 100

52 0.0 22.4 41.6#



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0

1.53

250

200

150

100

50

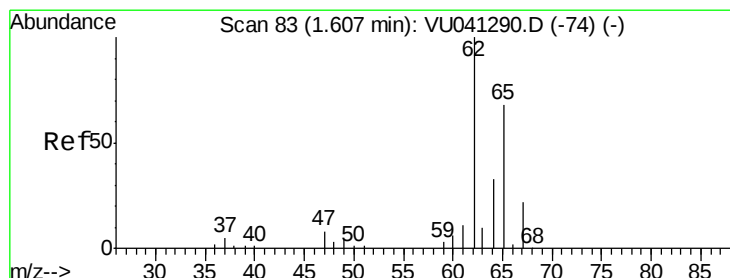
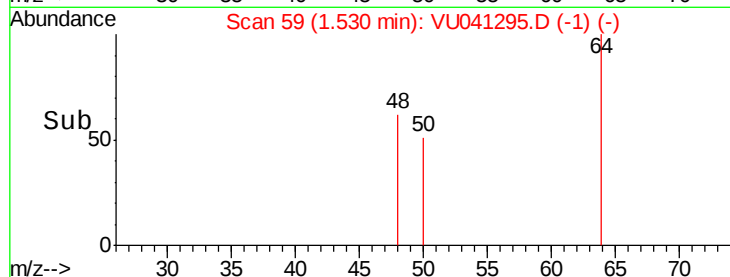
0

Time-->

1.50

1.52

1.54



#5

Vinyl chloride

Concen: 38.741 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU041295.D

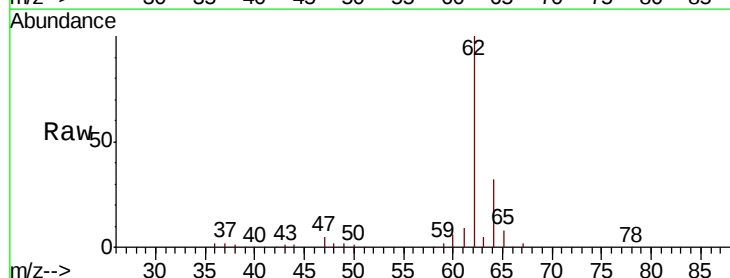
Acq: 17 Nov 2020 23:02

Tgt Ion: 62 Resp: 216856

Ion Ratio Lower Upper

62 100

64 32.0 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0

1.61

200000

150000

100000

50000

0

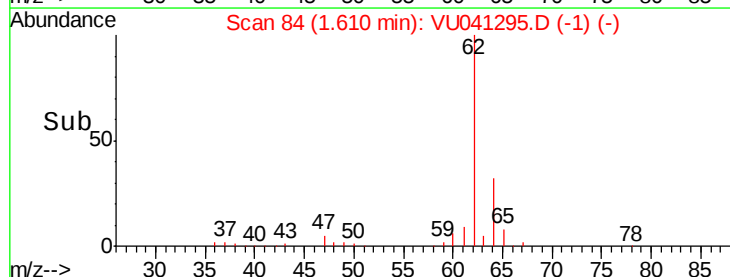
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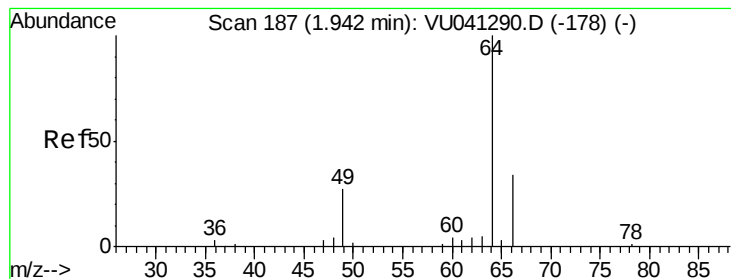
1.55

1.60

1.65

1.70





#8

Chloroethane

Concen: 0.039 ug/L

RT: 1.94 min Scan# 186

Delta R.T. -0.00 min

Lab File: VU041295.D

Acq: 17 Nov 2020 23:02

Instrument :

MSVOA_U

ClientSampleId :

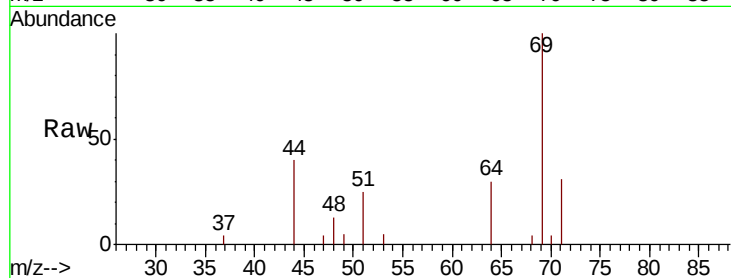
GB117

Tot Ion: 64 Resp: 145

Ion Ratio Lower Upper

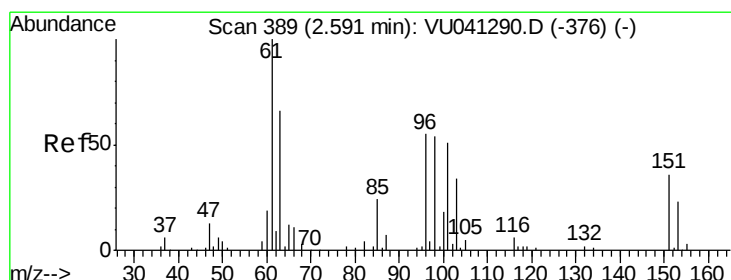
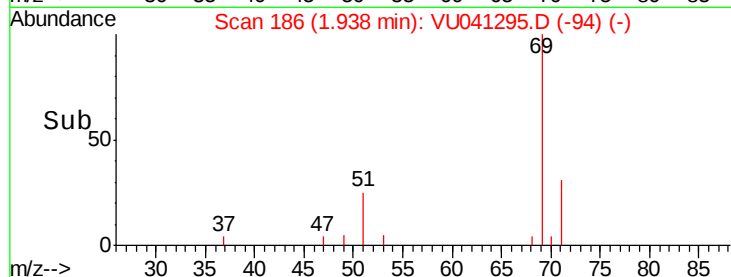
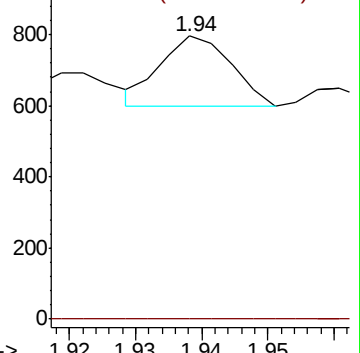
64 100

66 0.0 22.3 41.5#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0



#12

1,1-Dichloroethene

Concen: 0.455 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU041295.D

Acq: 17 Nov 2020 23:02

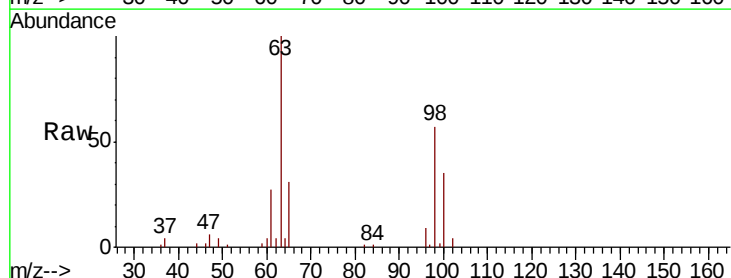
Tgt Ion: 96 Resp: 1909

Ion Ratio Lower Upper

96 100

61 293.9 134.3 249.5#

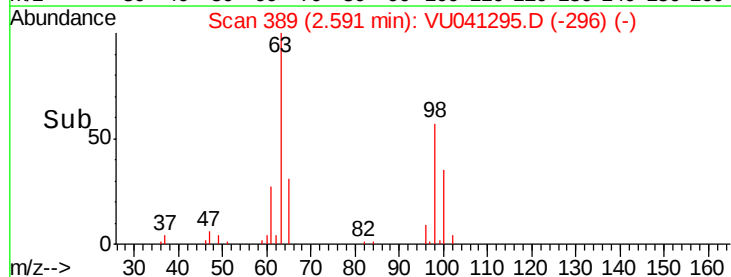
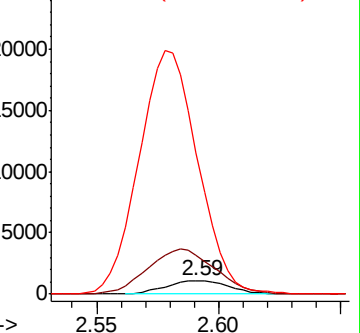
63 1072.6 95.0 176.4#

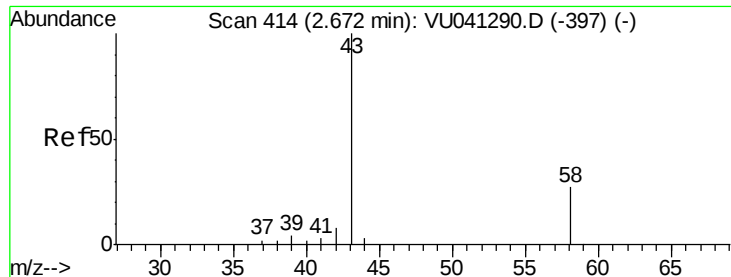


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 24.629 ug/L

RT: 2.66 min Scan# 410

Delta R.T. -0.01 min

Lab File: VU041295.D

Acq: 17 Nov 2020 23:02

Instrument :

MSVOA_U

ClientSampleId :

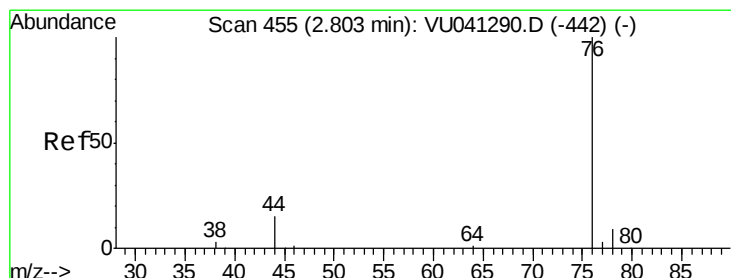
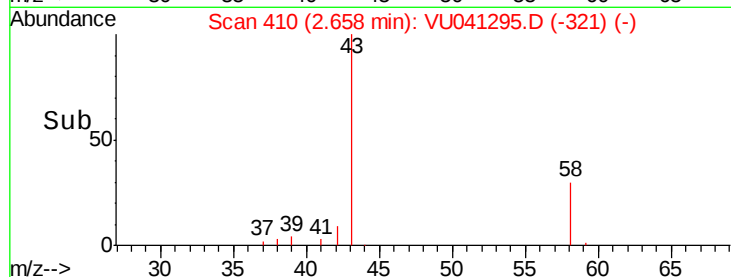
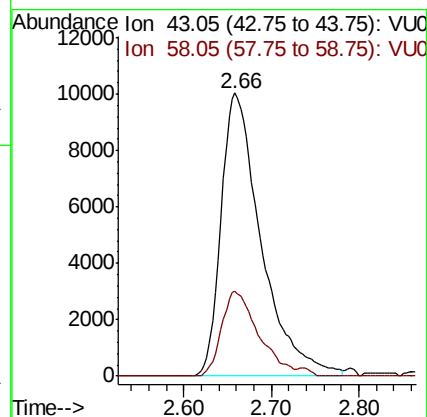
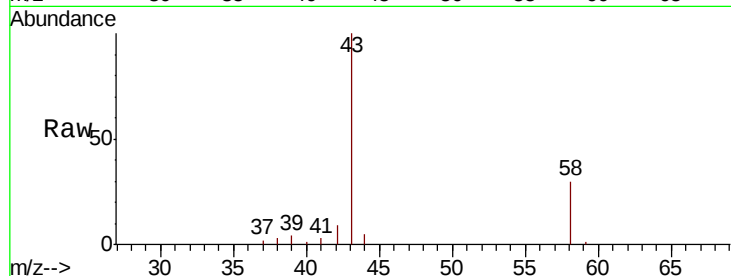
GB117

Tot Ion: 43 Resp: 31951

Ion Ratio Lower Upper

43 100

58 27.7 0.0 25.4#



#14

Carbon disulfide

Concen: 0.053 ug/L

RT: 2.81 min Scan# 456

Delta R.T. 0.00 min

Lab File: VU041295.D

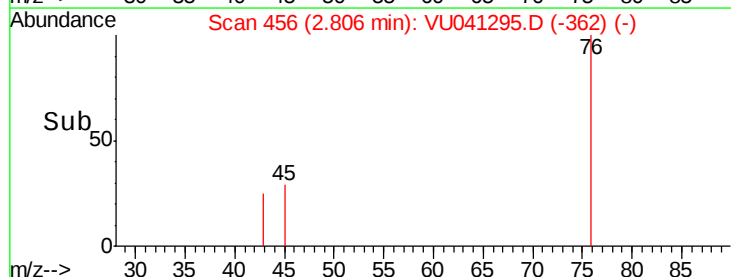
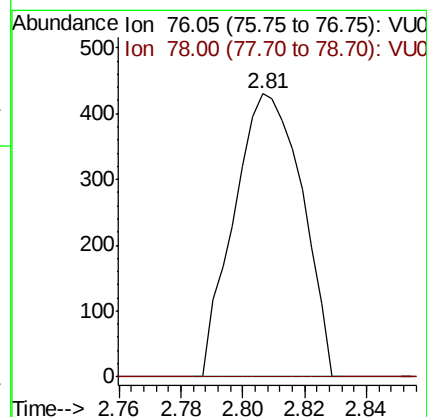
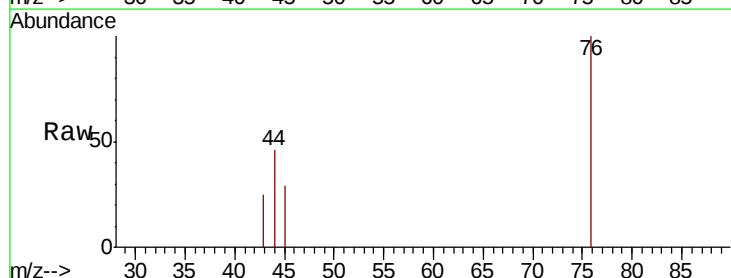
Acq: 17 Nov 2020 23:02

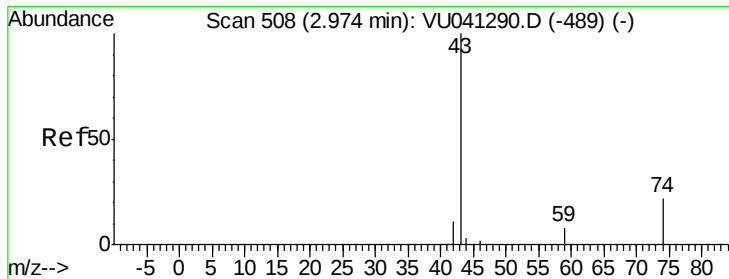
Tgt Ion: 76 Resp: 658

Ion Ratio Lower Upper

76 100

78 0.0 7.5 11.3#





#15

Methyl Acetate

Concen: 0.207 ug/L

RT: 3.10 min Scan# 547

Delta R.T. 0.13 min

Lab File: VU041295.D

Acq: 17 Nov 2020 23:02

Instrument :

MSVOA_U

ClientSampleId :

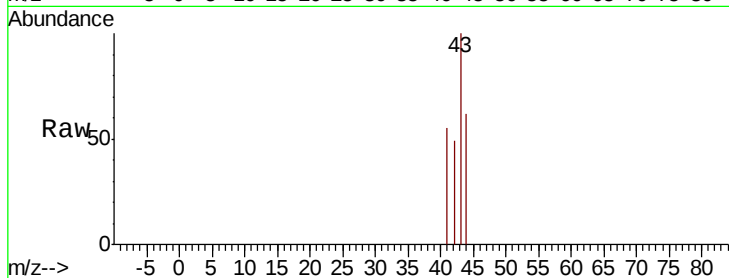
GB117

Tot Ion: 43 Resp: 557

Ion Ratio Lower Upper

43 100

74 0.0 18.3 27.5#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0

3.10

250

200

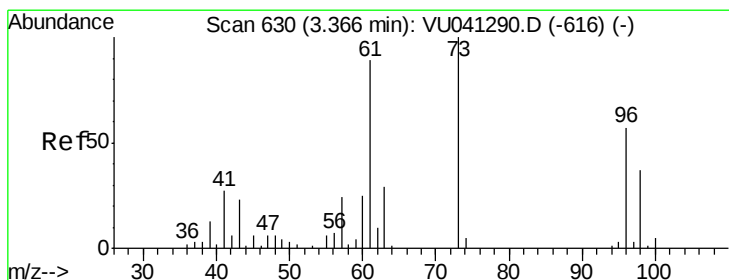
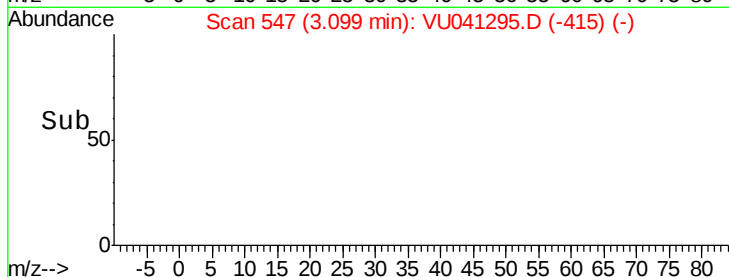
150

100

50

0

Time-->



#18

trans-1,2-Dichloroethene

Concen: 0.818 ug/L

RT: 3.37 min Scan# 631

Delta R.T. 0.00 min

Lab File: VU041295.D

Acq: 17 Nov 2020 23:02

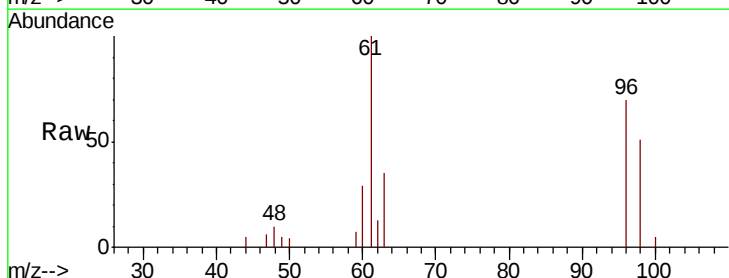
Tgt Ion: 96 Resp: 3342

Ion Ratio Lower Upper

96 100

61 143.9 110.9 205.9

98 72.7 45.4 84.2



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 97.95 (97.65 to 98.65): VU0

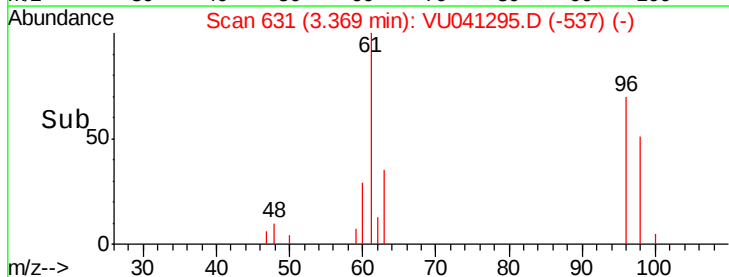
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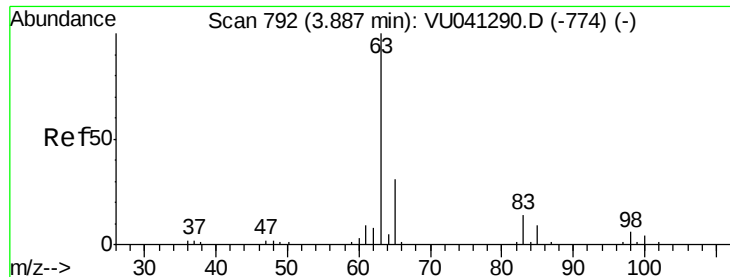
2000

1000

0

Time-->

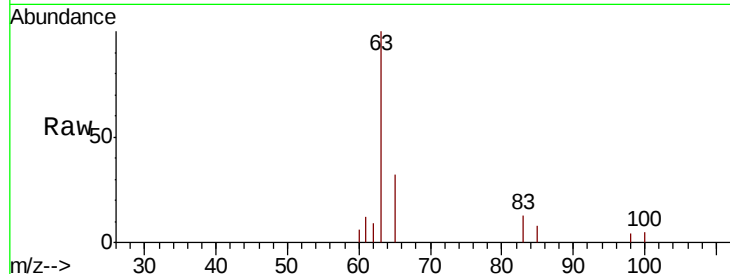




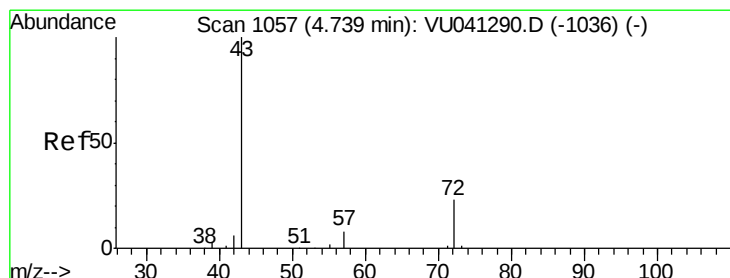
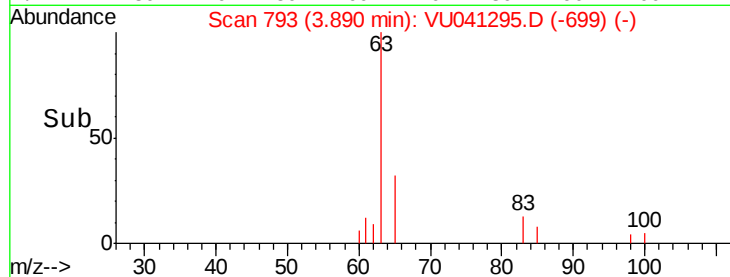
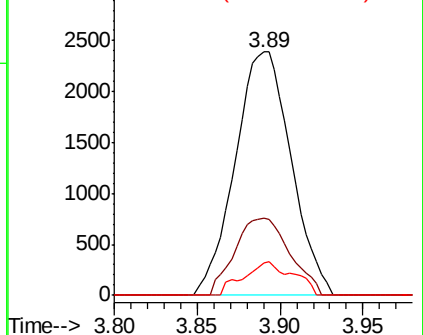
#19
 1,1-Dichloroethane
 Concen: 0.614 ug/L
 RT: 3.89 min Scan# 793
 Delta R.T. 0.00 min
 Lab File: VU041295.D
 Acq: 17 Nov 2020 23:02

Instrument :
 MSVOA_U
 ClientSampleId :
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Tot Ion: 63 Resp: 5608
 Ion Ratio Lower Upper
 63 100
 65 31.8 21.3 39.6
 83 13.4 8.8 16.3

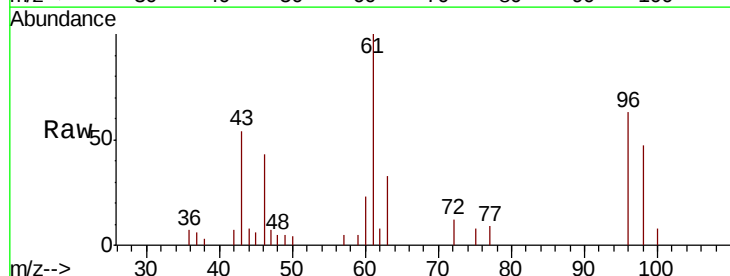


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

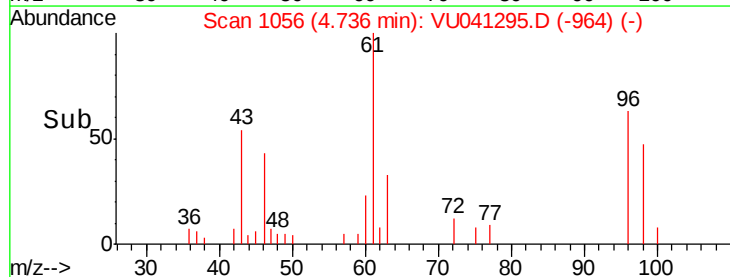
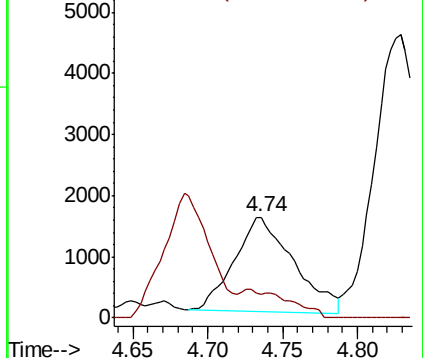


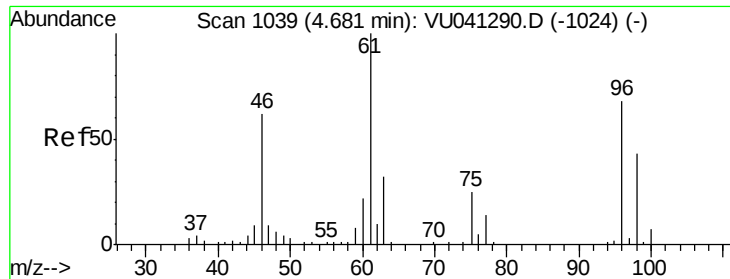
#21
 2-Butanone
 Concen: 2.131 ug/L
 RT: 4.74 min Scan# 1056
 Delta R.T. -0.00 min
 Lab File: VU041295.D
 Acq: 17 Nov 2020 23:02

Tgt Ion: 43 Resp: 4198
 Ion Ratio Lower Upper
 43 100
 72 0.0 11.8 35.4#



Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 72.10 (71.80 to 72.80): VU0





#22

cis-1,2-Dichloroethene

Concen: 74.846 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.01 min

Lab File: VU041295.D

Acq: 17 Nov 2020 23:02

Instrument :

MSVOA_U

ClientSampleId :

GB117

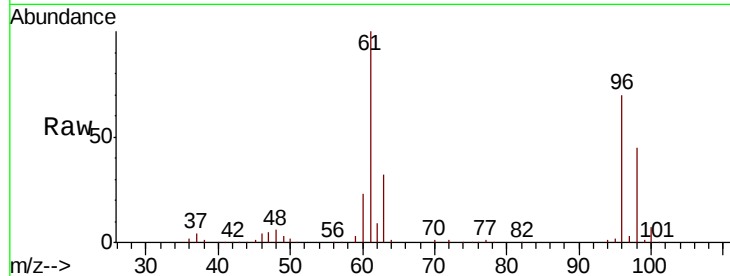
Tot Ion: 96 Resp: 345544

Ion Ratio Lower Upper

96 100

61 141.9 97.2 180.4

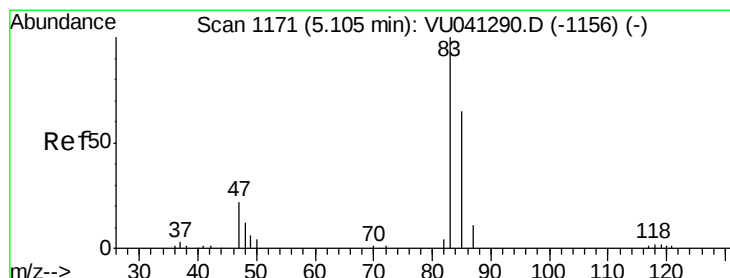
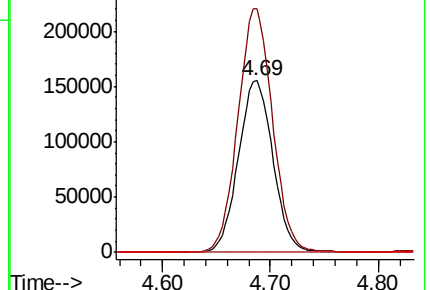
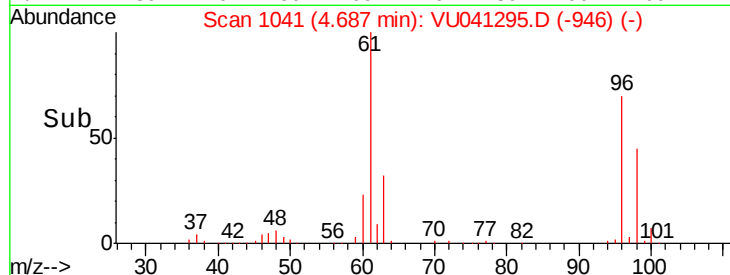
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU041295.D (-946) (-)

Ion 61.05 (60.75 to 61.75): VU041295.D (-946) (-)

Ion 68.15 (67.85 to 68.85): VU041295.D (-946) (-)



#25

Chloroform

Concen: 0.067 ug/L

RT: 5.11 min Scan# 1172

Delta R.T. 0.00 min

Lab File: VU041295.D

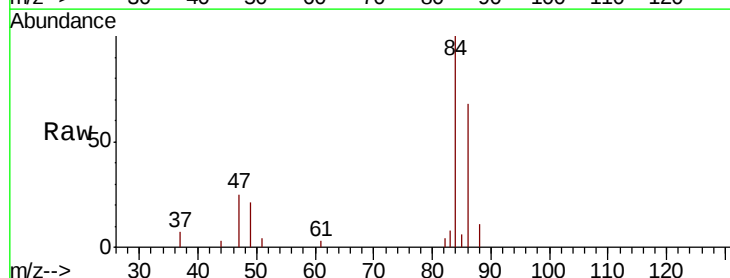
Acq: 17 Nov 2020 23:02

Tgt Ion: 83 Resp: 668

Ion Ratio Lower Upper

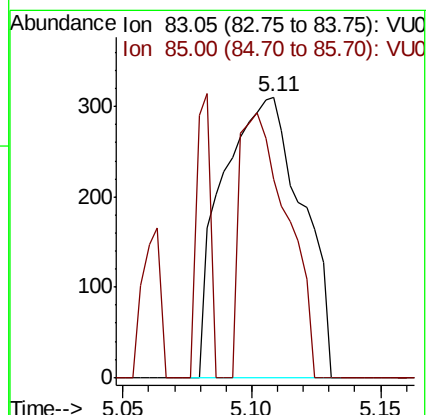
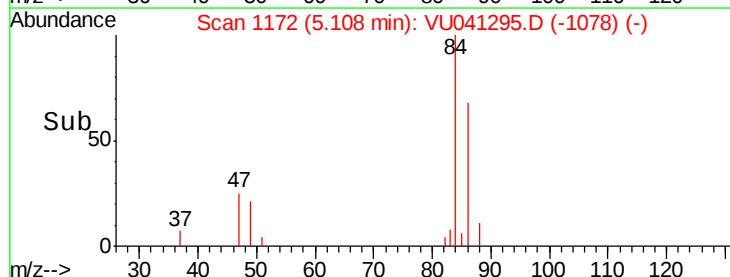
83 100

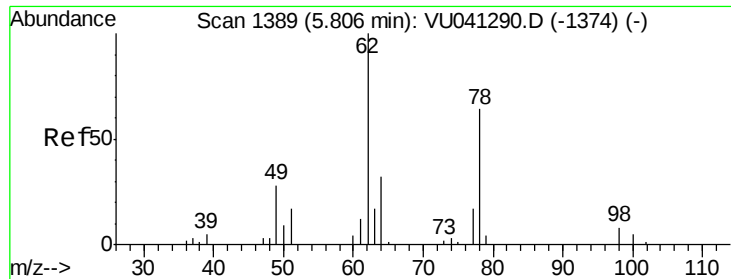
85 70.7 46.1 85.7



Abundance Ion 83.05 (82.75 to 83.75): VU041295.D (-1078) (-)

Ion 85.00 (84.70 to 85.70): VU041295.D (-1078) (-)

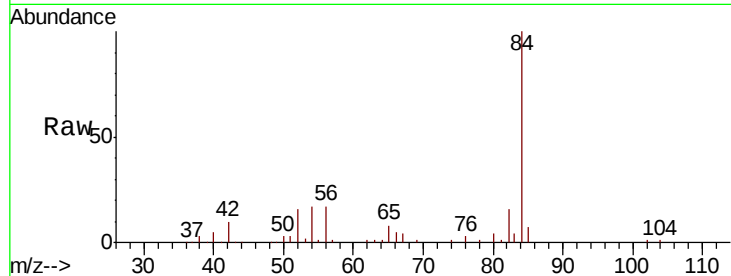




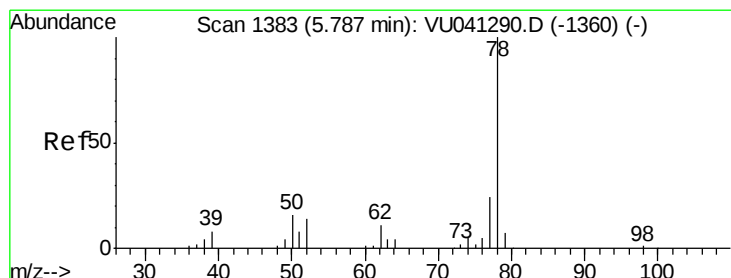
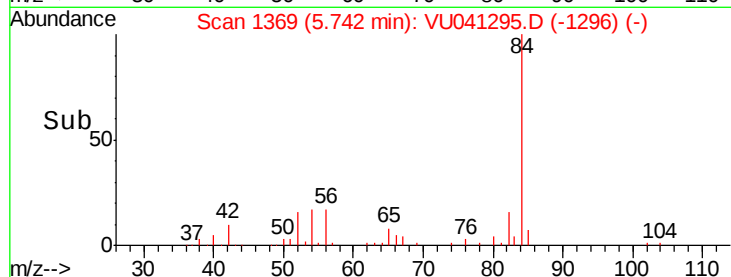
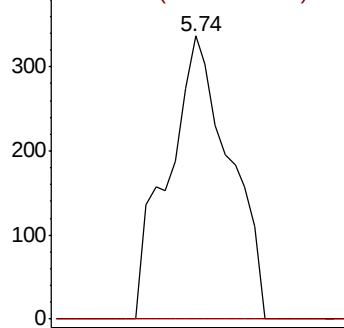
#27
 1,2-Dichloroethane
 Concen: 0.066 ug/L
 RT: 5.74 min Scan# 1369
 Delta R.T. -0.06 min
 Lab File: VU041295.D
 Acq: 17 Nov 2020 23:02

Instrument :
 MSVOA_U
 ClientSampleId :
 GB117

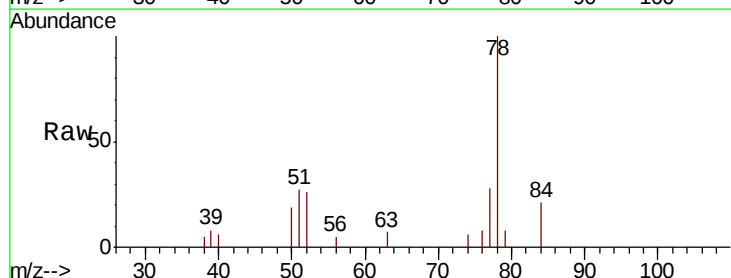
Tot Ion: 62 Resp: 468
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.6 11.4#



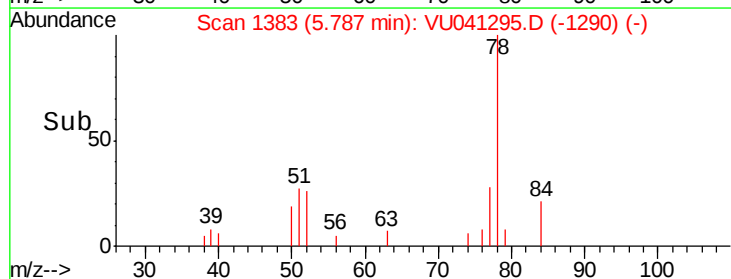
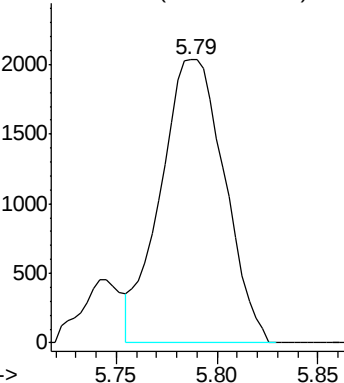
Abundance Ion 62.00 (61.70 to 62.70): VU0
 Ion 98.05 (97.75 to 98.75): VU0

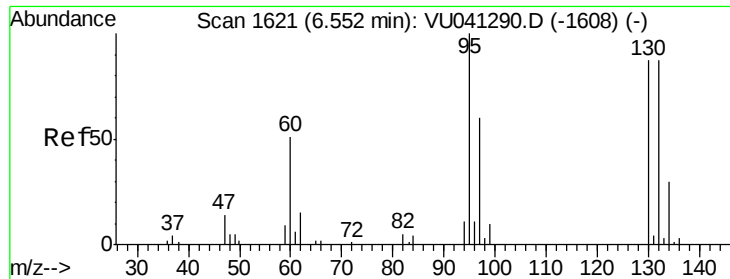


#33
 Benzene
 Concen: 0.258 ug/L
 RT: 5.79 min Scan# 1383
 Delta R.T. -0.00 min
 Lab File: VU041295.D
 Acq: 17 Nov 2020 23:02
 Tgt Ion: 78 Resp: 4514



Abundance Ion 78.10 (77.80 to 78.80): VU0

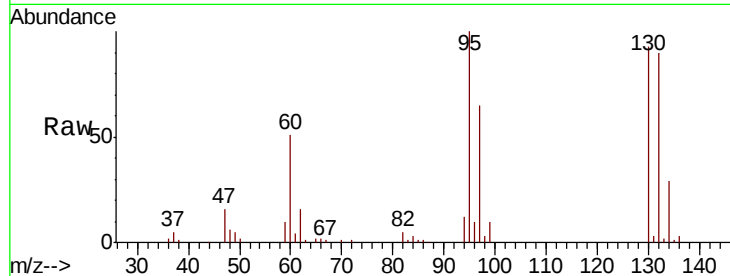




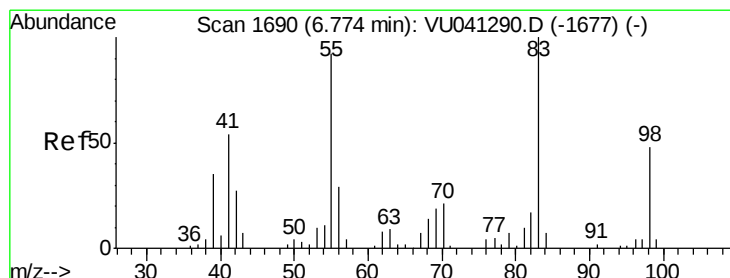
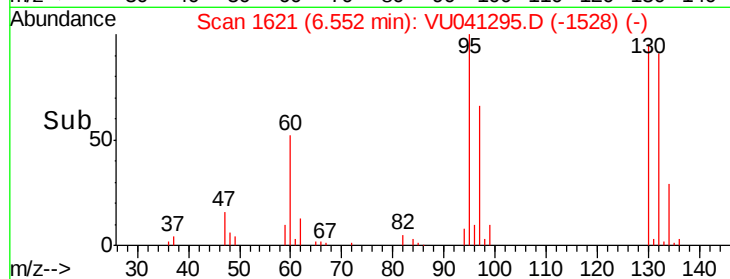
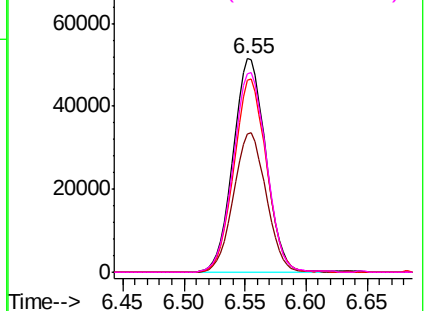
#34
 Trichloroethene
 Concen: 20.292 ug/L
 RT: 6.55 min Scan# 1621
 Delta R.T. -0.00 min
 Lab File: VU041295.D
 Acq: 17 Nov 2020 23:02

Instrument :
 MSVOA_U
 ClientSampleId :
 GB117

Tot Ion:	95	Resp:	95877
Ion	Ratio	Lower	Upper
95	100		
97	65.0	45.6	84.6
132	89.8	64.8	120.4
130	93.1	64.8	120.4

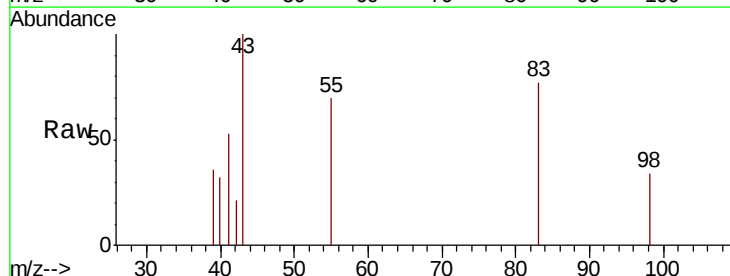


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

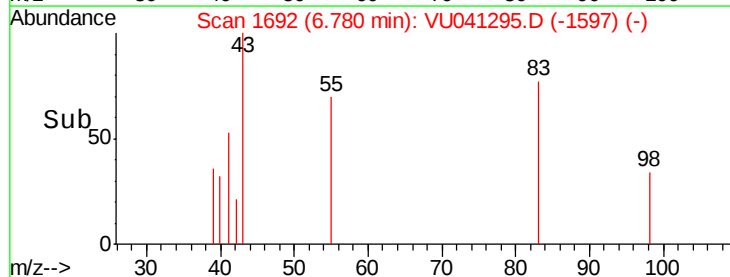
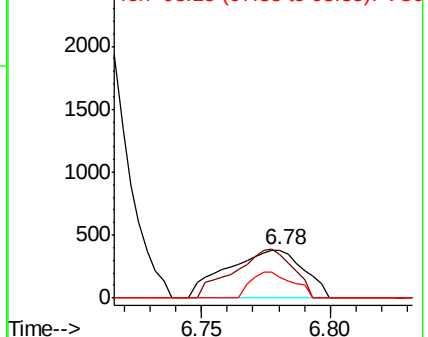


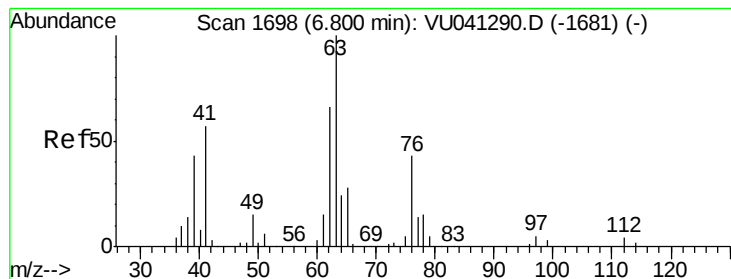
#35
 Methylcyclohexane
 Concen: 0.126 ug/L
 RT: 6.78 min Scan# 1692
 Delta R.T. 0.01 min
 Lab File: VU041295.D
 Acq: 17 Nov 2020 23:02

Tgt Ion:	83	Resp:	791
Ion	Ratio	Lower	Upper
83	100		
55	77.7	72.0	108.0
98	30.0	36.6	55.0#



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: 0.637 ug/L

RT: 6.70 min Scan# 1667

Delta R.T. -0.10 min

Lab File: VU041295.D

Acq: 17 Nov 2020 23:02

Instrument :

MSVOA_U

ClientSampleId :

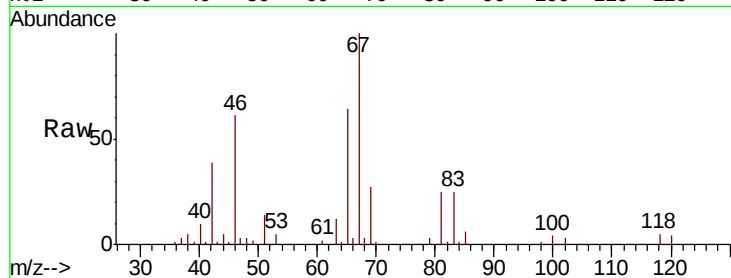
GB117

Tot Ion: 63 Resp: 3254

Ion Ratio Lower Upper

63 100

112 0.0 3.6 5.4#



Abundance Ion 63.10 (62.80 to 63.80): VU041295.D (-1667) (-)

Ion 112.10 (111.80 to 112.80): VU041295.D (-1667) (-)

6.70

1500

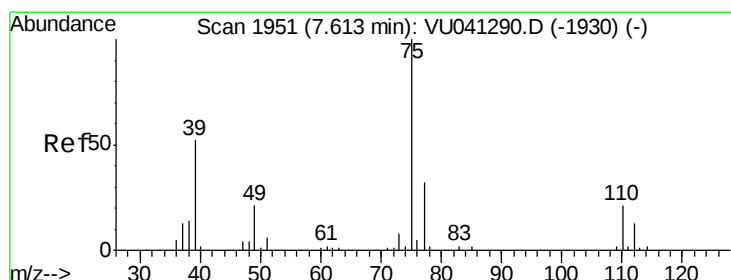
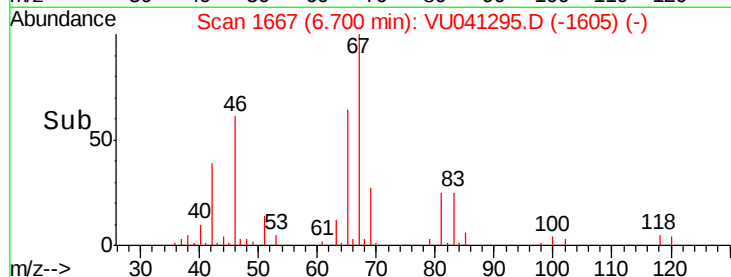
1000

500

0

6.65 6.70 6.75

Time-->



#39

cis-1,3-Dichloropropene

Concen: 0.107 ug/L

RT: 7.57 min Scan# 1938

Delta R.T. -0.04 min

Lab File: VU041295.D

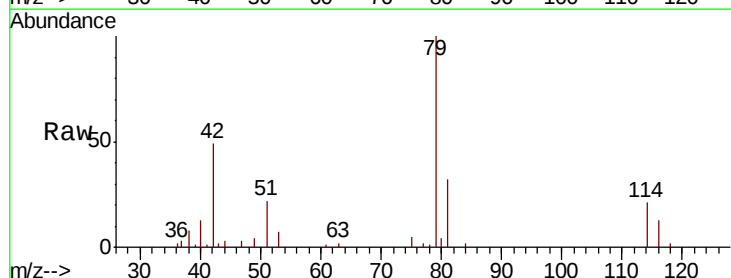
Acq: 17 Nov 2020 23:02

Tgt Ion: 75 Resp: 761

Ion Ratio Lower Upper

75 100

77 47.9 22.7 42.3#



Abundance Ion 75.05 (74.75 to 75.75): VU041295.D (-1938) (-)

Ion 77.05 (76.75 to 77.75): VU041295.D (-1938) (-)

7.57

500

400

300

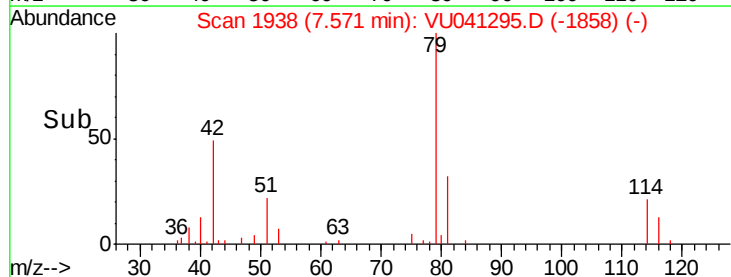
200

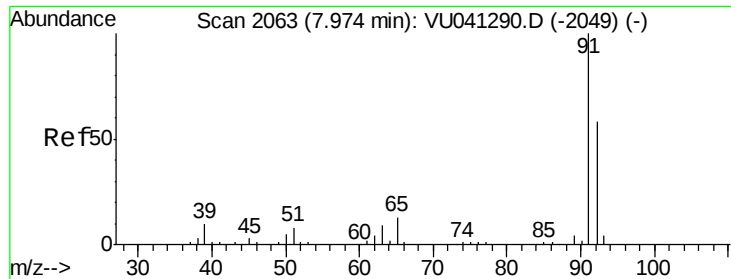
100

0

7.54 7.56 7.58 7.60

Time-->





#42

Toluene

Concen: 0.297 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU041295.D

Acq: 17 Nov 2020 23:02

Instrument :

MSVOA_U

ClientSampleId :

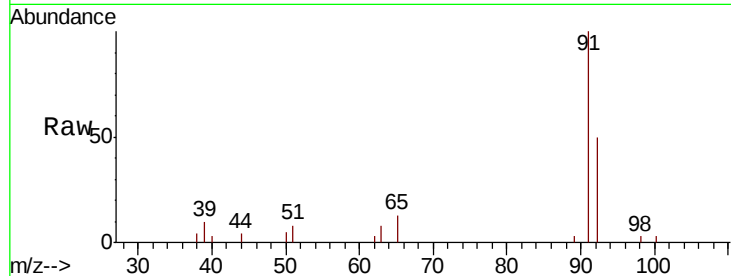
GB117

Tot Ion: 91 Resp: 5555

Ion Ratio Lower Upper

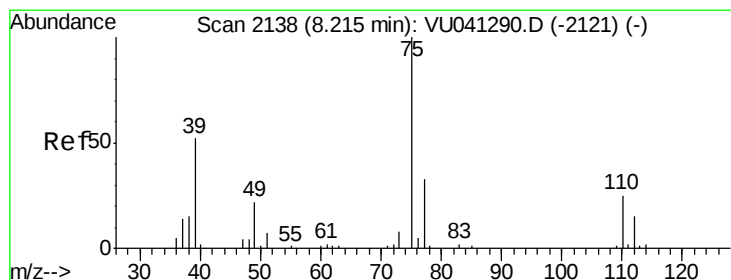
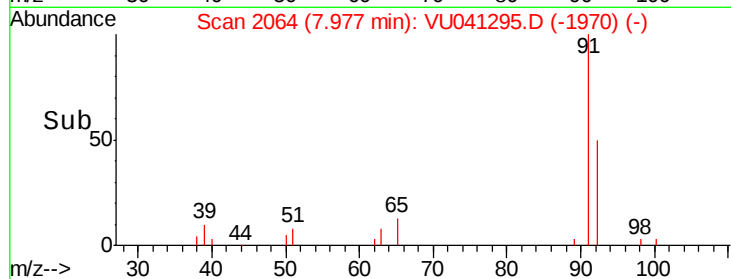
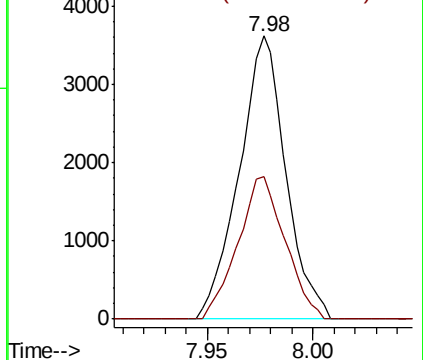
91 100

92 50.3 40.6 75.4



Abundance Ion 91.15 (90.85 to 91.85): VU041295.D (-1970) (-)

Ion 92.15 (91.85 to 92.85): VU041295.D (-1970) (-)



#44

trans-1,3-Dichloropropene

Concen: 0.038 ug/L

RT: 8.19 min Scan# 2130

Delta R.T. -0.03 min

Lab File: VU041295.D

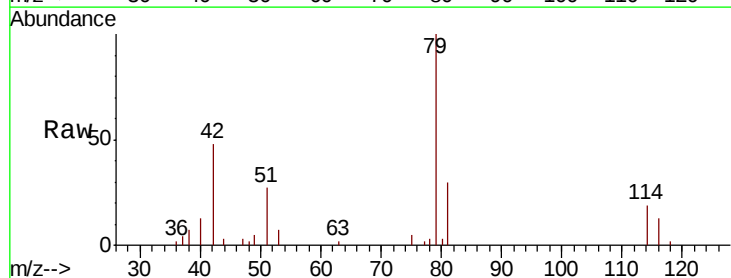
Acq: 17 Nov 2020 23:02

Tgt Ion: 75 Resp: 258

Ion Ratio Lower Upper

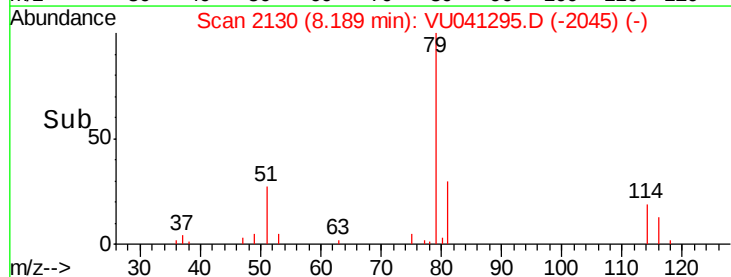
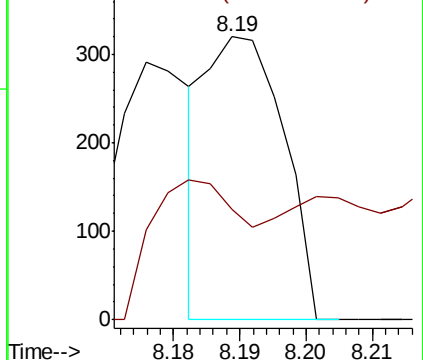
75 100

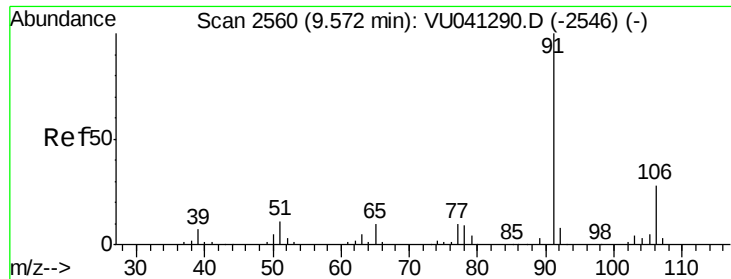
77 39.1 23.3 43.3



Abundance Ion 75.05 (74.75 to 75.75): VU041295.D (-2045) (-)

Ion 77.05 (76.75 to 77.75): VU041295.D (-2045) (-)





#52

Ethylbenzene

Concen: 0.059 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. -0.00 min

Lab File: VU041295.D

Acq: 17 Nov 2020 23:02

Instrument :

MSVOA_U

ClientSampleId :

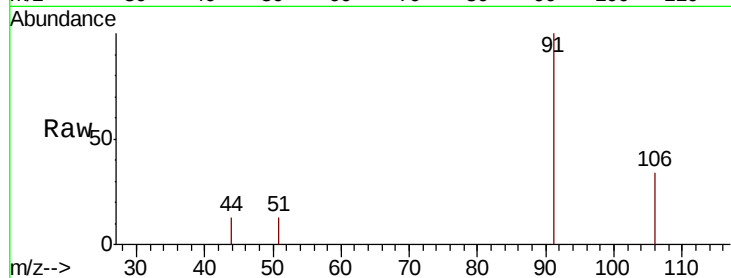
GB117

Tot Ion: 91 Resp: 1170

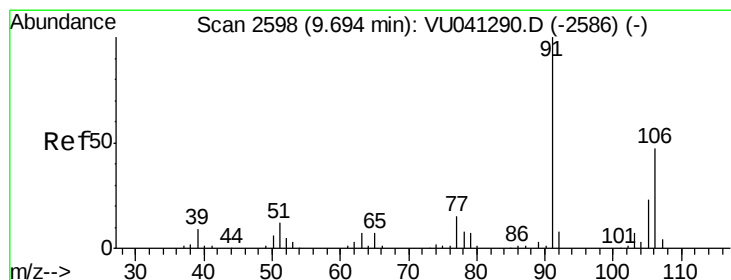
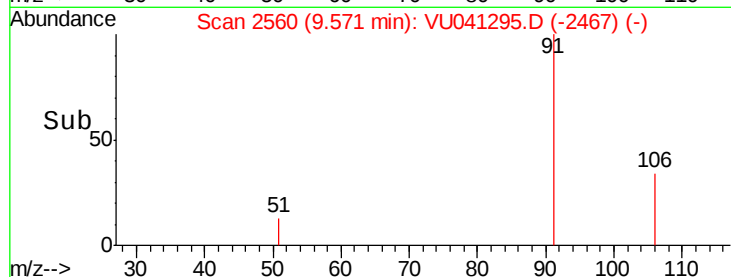
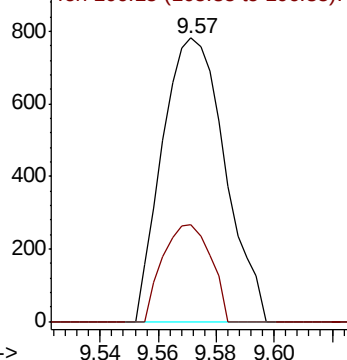
Ion Ratio Lower Upper

91 100

106 34.3 21.0 39.0



Abundance Ion 91.15 (90.85 to 91.85): VU041295.D (-2546) (-)



#53

m,p-Xylene

Concen: 0.120 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. -0.00 min

Lab File: VU041295.D

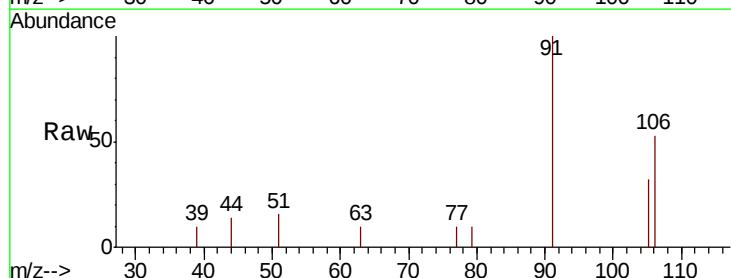
Acq: 17 Nov 2020 23:02

Tgt Ion: 106 Resp: 864

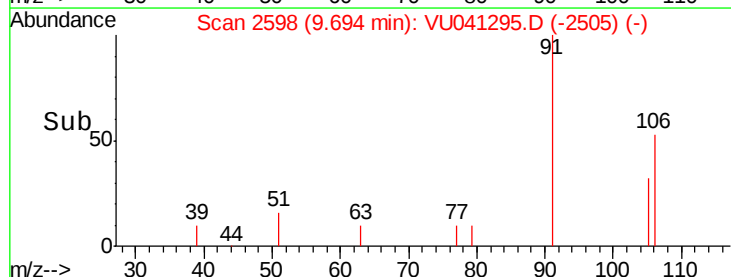
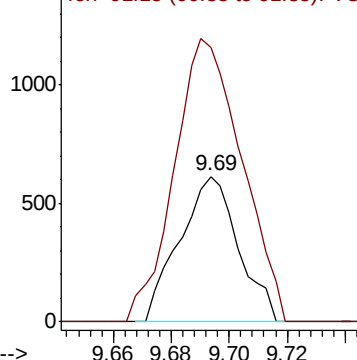
Ion Ratio Lower Upper

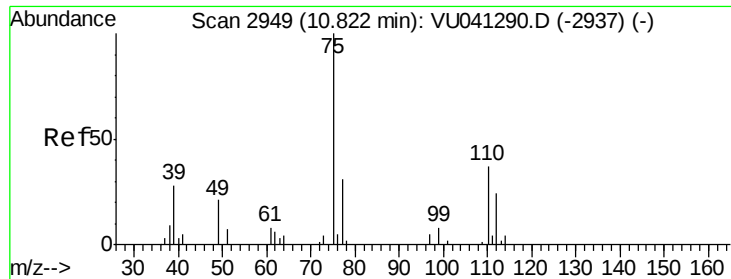
106 100

91 188.9 150.9 280.3



Abundance Ion 106.15 (105.85 to 106.85): VU041295.D (-2598) (-)





#59

1,2,3-Trichloropropane

Concen: 0.885 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU041295.D

Acq: 17 Nov 2020 23:02

Instrument :

MSVOA_U

ClientSampleId :

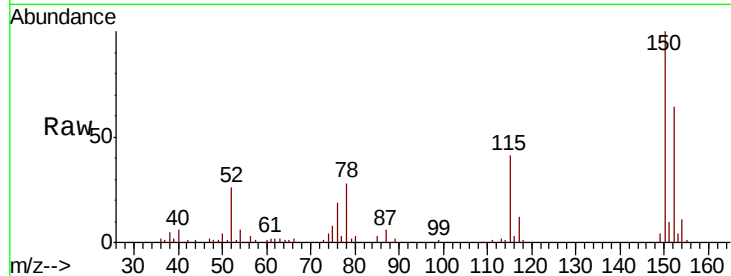
GB117

Tot Ion: 75 Resp: 3567

Ion Ratio Lower Upper

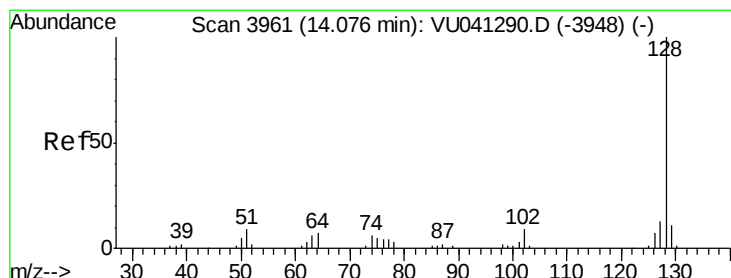
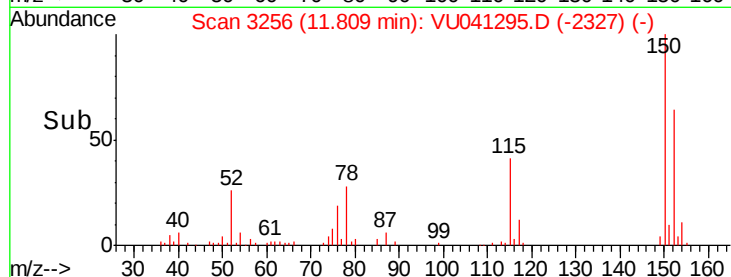
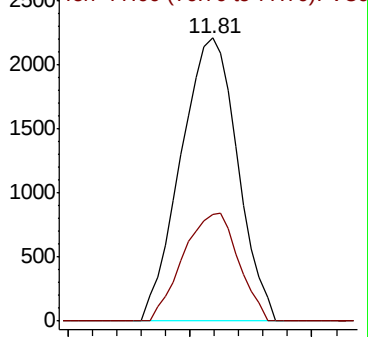
75 100

77 37.1 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#69

Naphthalene

Concen: 0.175 ug/L

RT: 14.08 min Scan# 3962

Delta R.T. 0.00 min

Lab File: VU041295.D

Acq: 17 Nov 2020 23:02

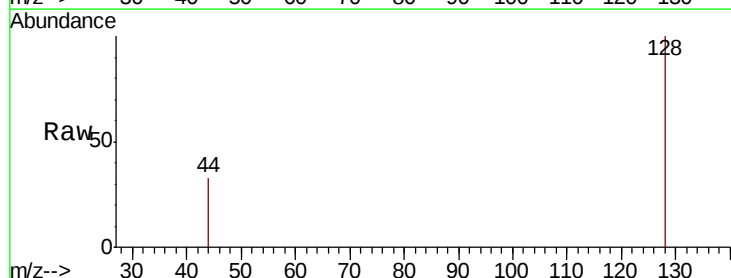
Tgt Ion: 128 Resp: 1352

Ion Ratio Lower Upper

128 100

129 0.0 8.7 13.1#

127 1.5 10.8 16.2#



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

