

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U120920\
 Data File : VU041512.D
 Acq On : 09 Dec 2020 14:13
 Operator : SY/MD
 Sample : L4979-16MSD
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 10 04:46:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR120420WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Dec 10 04:45:04 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	44062	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	49264	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	25562	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	9166	4.05	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	81.00%
7) Chloroethane-d5	1.92	69	9329	4.70	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	94.00%
11) 1,1-Dichloroethene-d2	2.58	63	26955	4.92	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	98.40%
20) 2-Butanone-d5	4.66	46	38388	45.23	ug/L	0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	90.46%
24) Chloroform-d	5.08	84	30363	4.86	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.20%
26) 1,2-Dichloroethane-d4	5.72	65	21514	5.13	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.60%
32) Benzene-d6	5.74	84	43518	3.96	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	79.20%
36) 1,2-Dichloropropane-d6	6.70	67	12875	4.01	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	80.20%
41) Toluene-d8	7.90	98	40240	3.74	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	74.80%
43) trans-1,3-Dichloropropene-	8.19	79	8228	4.33	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.60%
46) 2-Hexanone-d5	8.64	63	29413	37.17	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	74.34%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	14901	4.21	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	84.20%
64) 1,2-Dichlorobenzene-d4	12.19	152	23115	5.29	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	105.80%

Target Compounds

				Ovalue
3) Chloromethane	1.52	50	253	0.100 ug/L # 41
8) Chloroethane	1.93	64	142	0.073 ug/L # 45
12) 1,1-Dichloroethene	2.59	96	16023	6.212 ug/L 94
13) Acetone	2.66	43	8949	13.545 ug/L 63
14) Carbon disulfide	2.81	76	1649	0.207 ug/L # 76
15) Methyl Acetate	2.80	43	140	0.116 ug/L # 51
21) 2-Butanone	4.73	43	956	1.156 ug/L 94
27) 1,2-Dichloroethane	5.79	62	965	0.201 ug/L # 79
33) Benzene	5.79	78	60386	4.952 ug/L 100
34) Trichloroethene	6.55	95	17788	4.833 ug/L 98
35) Methylcyclohexane	6.70	83	4116	0.820 ug/L # 26
37) 1,2-Dichloropropane	6.70	63	2148	0.752 ug/L # 84
39) cis-1,3-Dichloropropene	7.57	75	519	0.101 ug/L 90
42) Toluene	7.98	91	68702	5.006 ug/L 100
44) trans-1,3-Dichloropropene	8.18	75	417	0.081 ug/L # 81
47) Tetrachloroethene	8.55	164	274	0.094 ug/L # 66
48) 2-Hexanone	8.64	43	4388	2.385 ug/L # 74

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Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Dec 10 04:45:04 2020
Response via : Initial Calibration

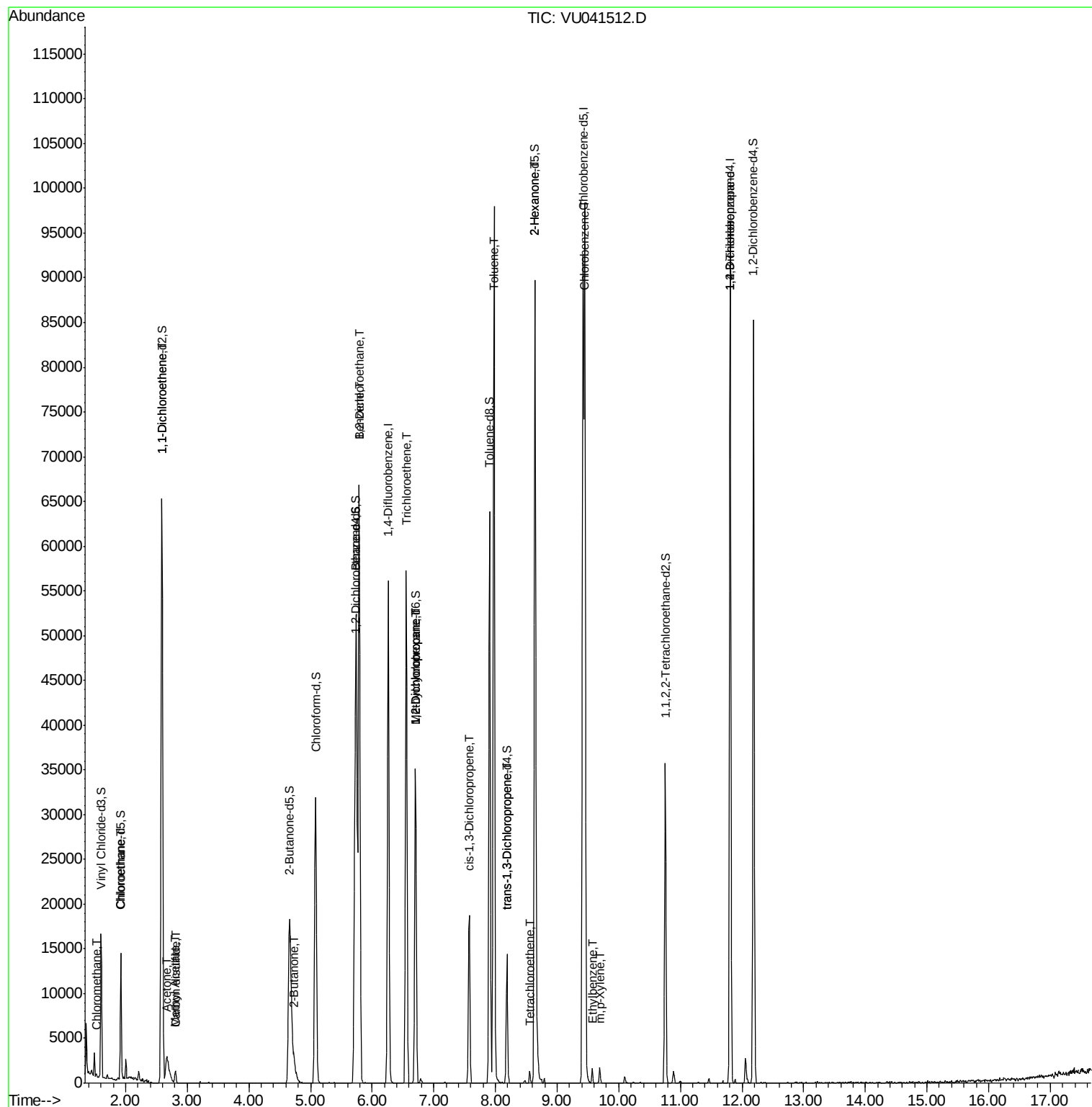
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Chlorobenzene	9.45	112	50413	5.512	ug/L	98
52) Ethylbenzene	9.57	91	1678	0.107	ug/L	89
53) m,p-Xylene	9.69	106	572	0.100	ug/L	78
59) 1,2,3-Trichloropropane	11.81	75	2334	0.842	ug/L #	81

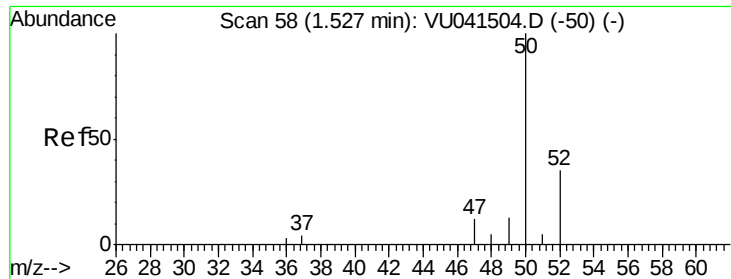
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.100 ug/L

RT: 1.52 min Scan# 57

Delta R.T. -0.00 min

Lab File: VU041512.D

Acq: 09 Dec 2020 14:13

Instrument :

MSVOA_U

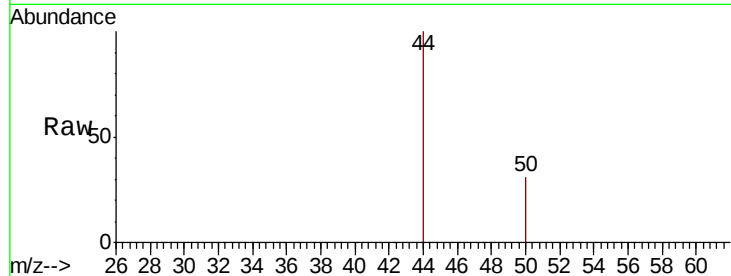
ClientSampleId :

Tot Ion: 50 Resp: 253

Ion Ratio Lower Upper

50 100

52 0.0 23.3 43.3#



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0

1.52

250

200

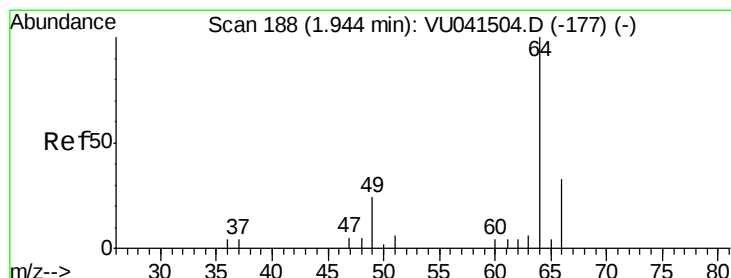
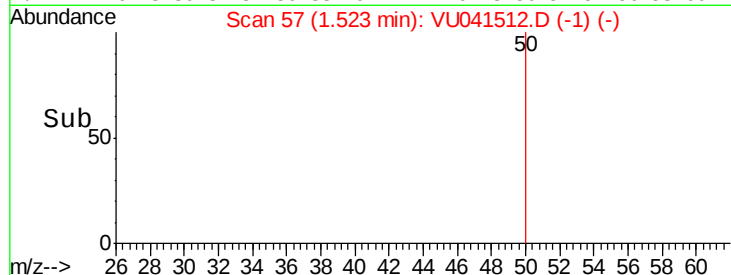
150

100

50

0

Time-->



#8

Chloroethane

Concen: 0.073 ug/L

RT: 1.93 min Scan# 185

Delta R.T. -0.01 min

Lab File: VU041512.D

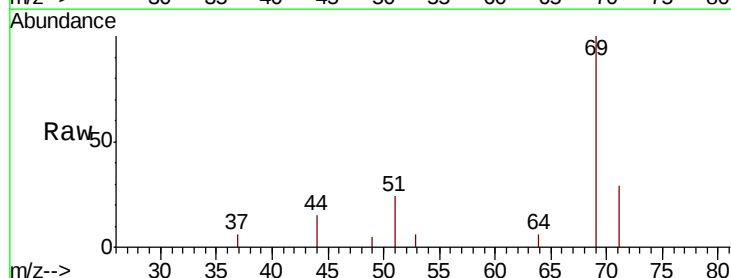
Acq: 09 Dec 2020 14:13

Tgt Ion: 64 Resp: 142

Ion Ratio Lower Upper

64 100

66 0.0 20.9 38.9#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0

1.93

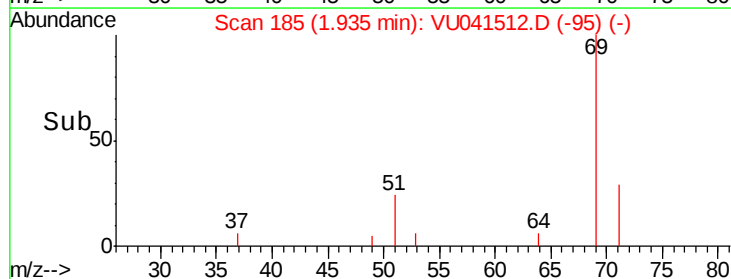
150

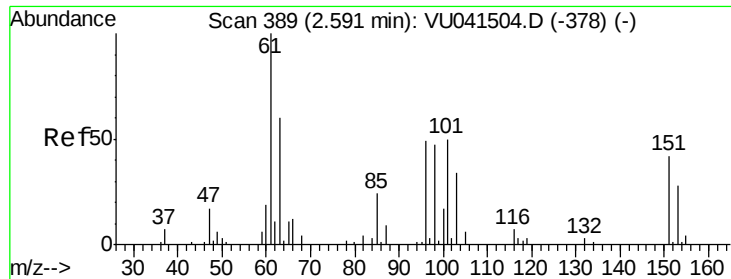
100

50

0

Time-->





#12

1,1-Dichloroethene

Concen: 6.212 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU041512.D

Acq: 09 Dec 2020 14:13

Instrument :
MSVOA_U
ClientSampled :

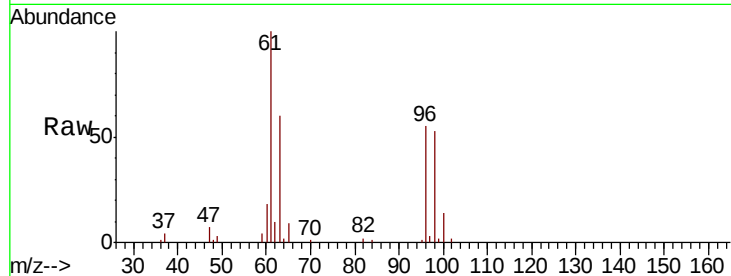
Tot Ion: 96 Resp: 16023

Ion Ratio Lower Upper

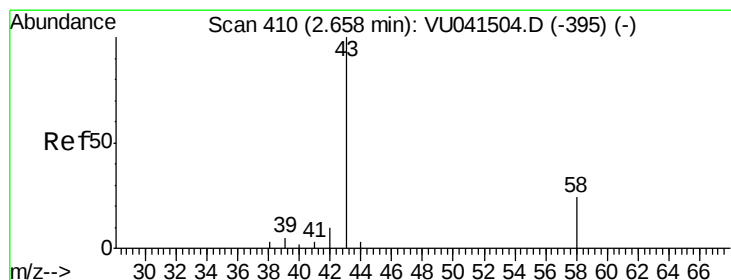
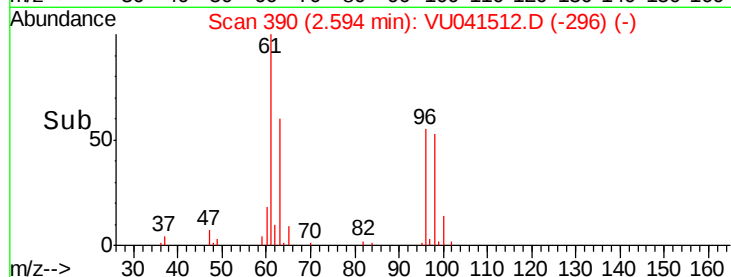
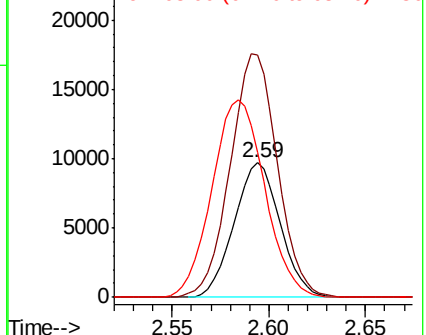
96 100

61 180.4 127.8 237.4

63 107.8 86.2 160.0



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: 13.545 ug/L

RT: 2.66 min Scan# 412

Delta R.T. 0.01 min

Lab File: VU041512.D

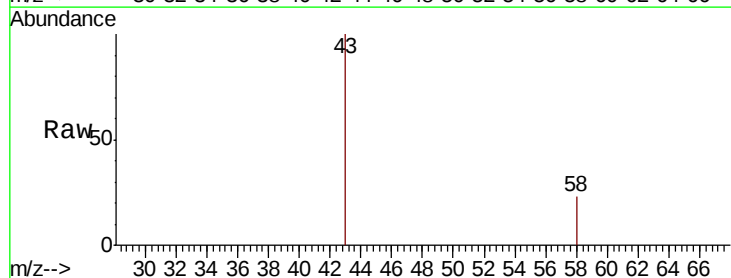
Acq: 09 Dec 2020 14:13

Tgt Ion: 43 Resp: 8949

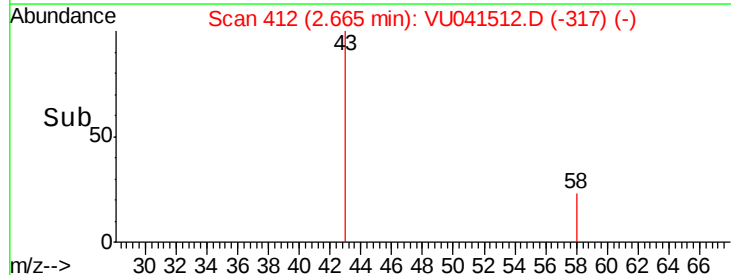
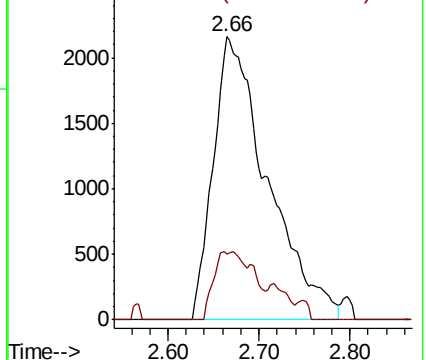
Ion Ratio Lower Upper

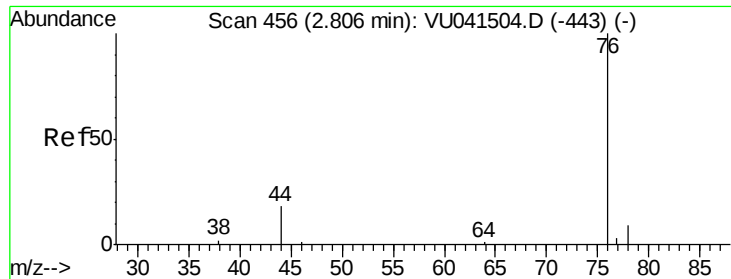
43 100

58 6.3 0.0 50.0



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

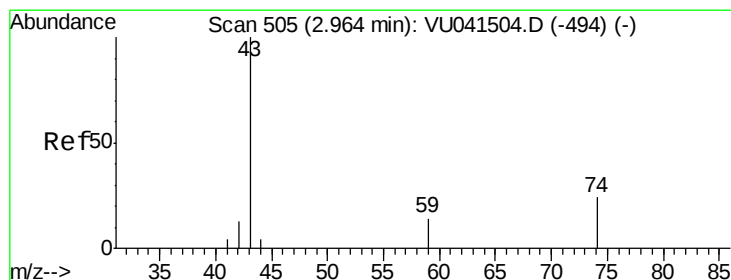
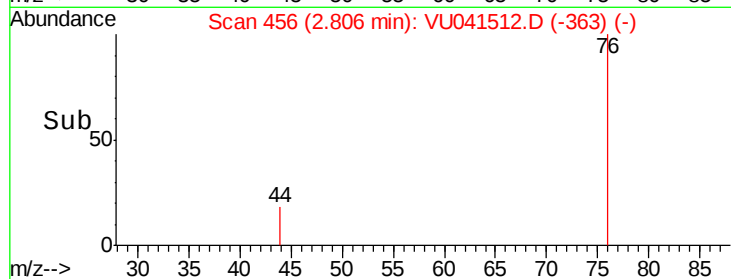
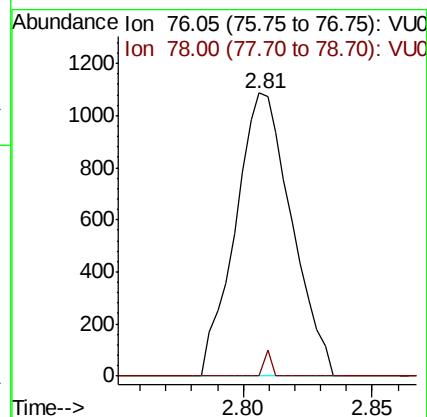
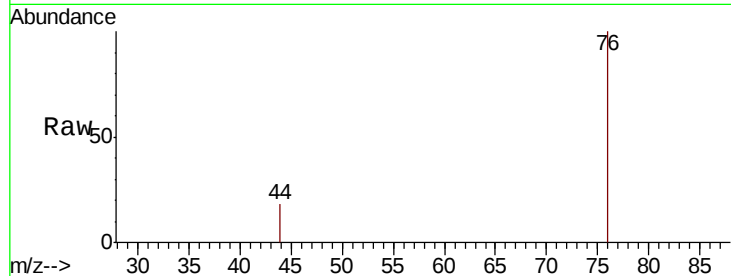




#14
Carbon disulfide
Concen: 0.207 ug/L
RT: 2.81 min Scan# 456
Delta R.T. -0.00 min
Lab File: VU041512.D
Acq: 09 Dec 2020 14:13

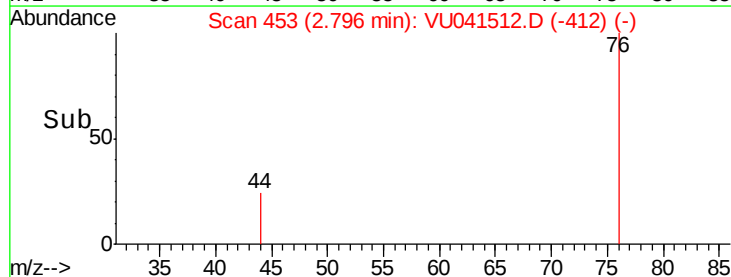
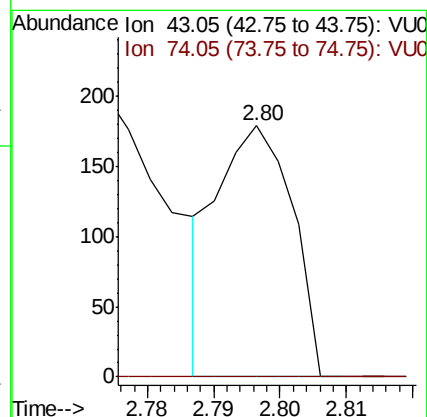
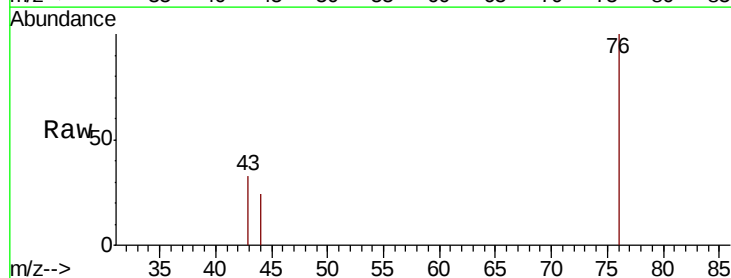
Instrument :
MSVOA_U
ClientSampleId :

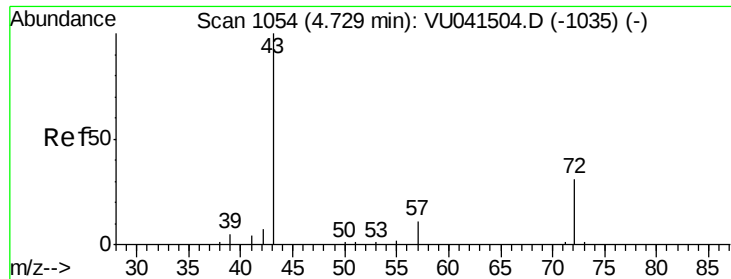
Tot Ion: 76 Resp: 1649
Ion Ratio Lower Upper
76 100
78 0.0 6.8 10.2#



#15
Methyl Acetate
Concen: 0.116 ug/L
RT: 2.80 min Scan# 453
Delta R.T. -0.17 min
Lab File: VU041512.D
Acq: 09 Dec 2020 14:13

Tgt Ion: 43 Resp: 140
Ion Ratio Lower Upper
43 100
74 0.0 19.7 29.5#





#21

2-Butanone

Concen: 1.156 ug/L

RT: 4.73 min Scan# 1055

Delta R.T. 0.00 min

Lab File: VU041512.D

Acq: 09 Dec 2020 14:13

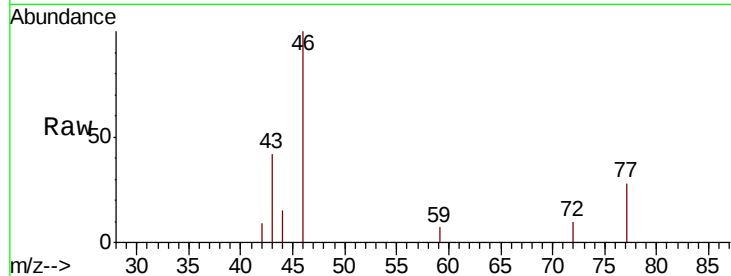
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 956

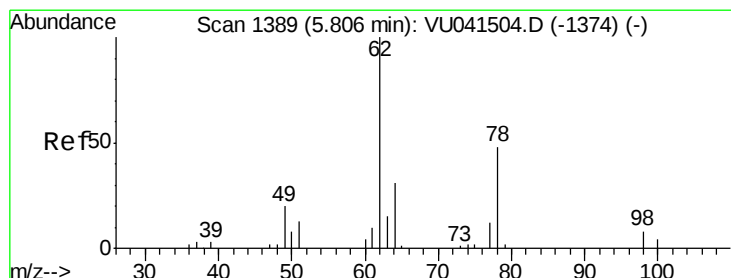
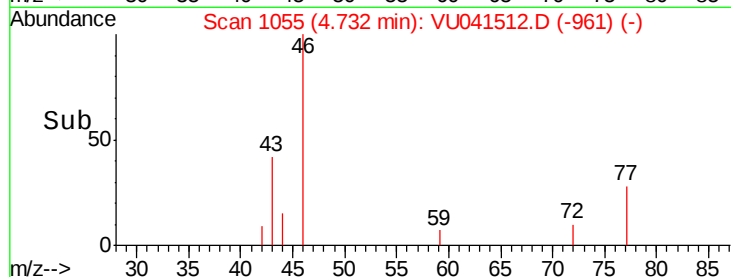
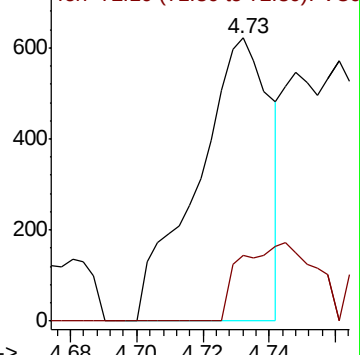
Ion Ratio Lower Upper

43 100

72 27.8 15.7 47.1



Abundance Ion 43.05 (42.75 to 43.75): VU041512.D (-961) (-)



#27

1,2-Dichloroethane

Concen: 0.201 ug/L

RT: 5.79 min Scan# 1385

Delta R.T. -0.01 min

Lab File: VU041512.D

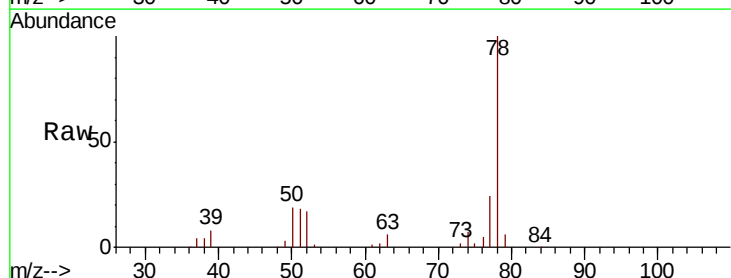
Acq: 09 Dec 2020 14:13

Tgt Ion: 62 Resp: 965

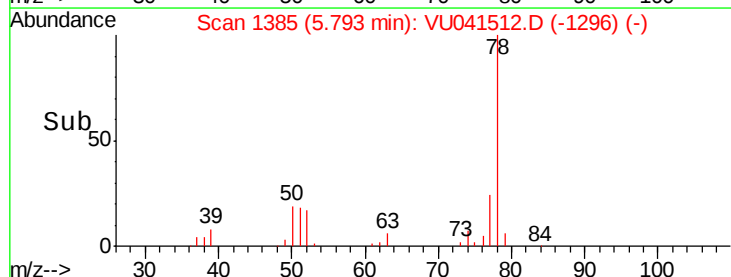
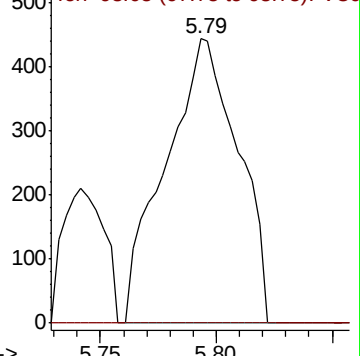
Ion Ratio Lower Upper

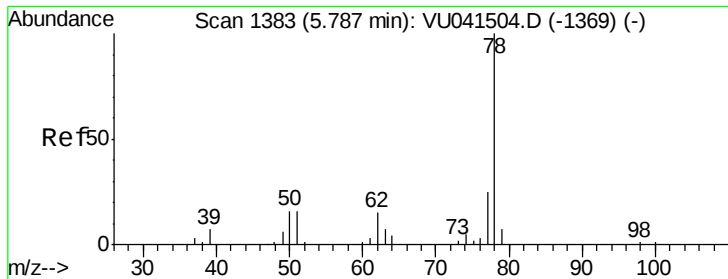
62 100

98 0.0 5.7 8.5#



Abundance Ion 62.00 (61.70 to 62.70): VU041512.D (-1296) (-)

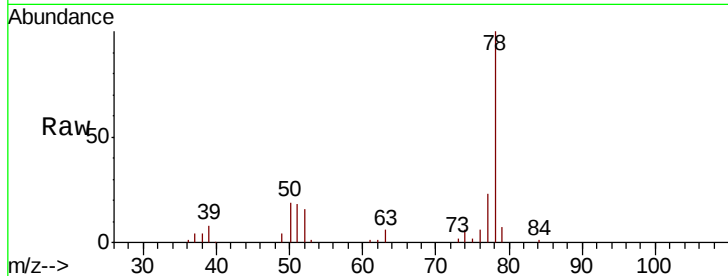




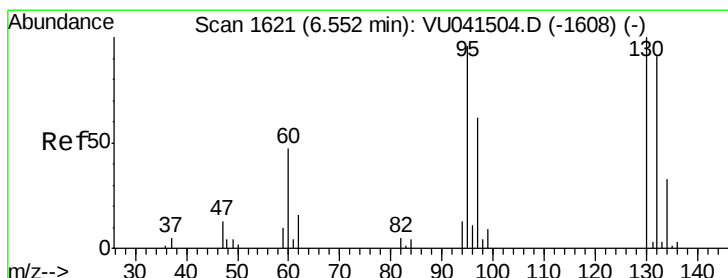
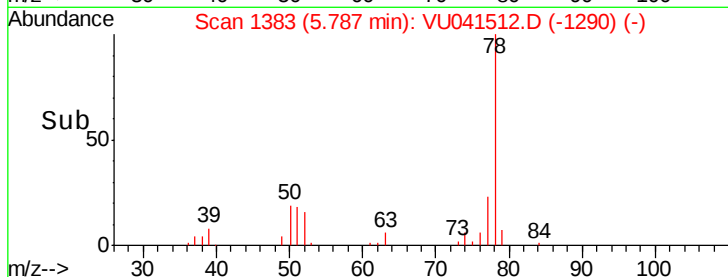
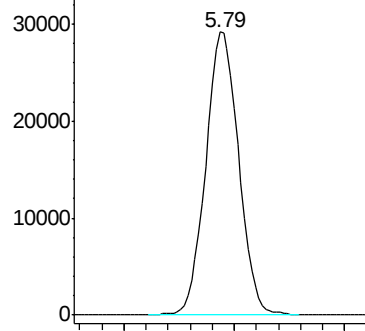
#33
Benzene
Concen: 4.952 ug/L
RT: 5.79 min Scan# 1383
Delta R.T. -0.00 min
Lab File: VU041512.D
Acq: 09 Dec 2020 14:13

Instrument :
MSVOA_U
ClientSampled :

Tgt Ion: 78 Resp: 60386



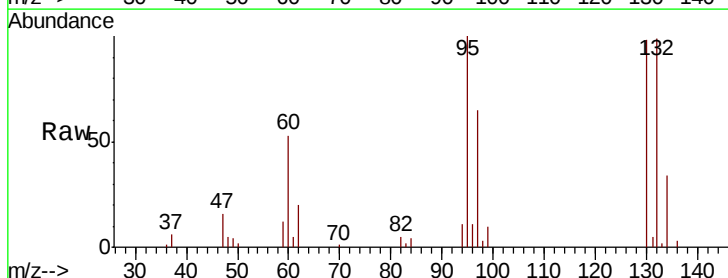
Abundance Ion 78.10 (77.80 to 78.80): VU0



#34
Trichloroethene
Concen: 4.833 ug/L
RT: 6.55 min Scan# 1621
Delta R.T. -0.00 min
Lab File: VU041512.D
Acq: 09 Dec 2020 14:13

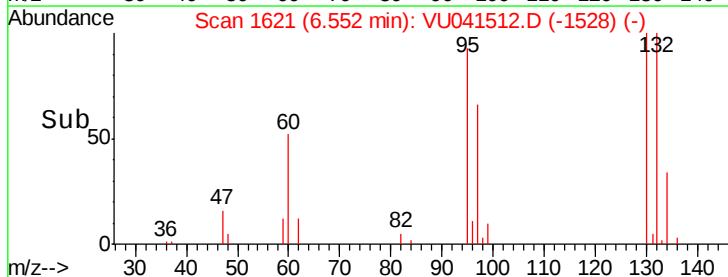
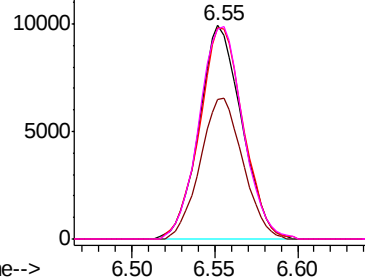
Tgt Ion: 95 Resp: 17788

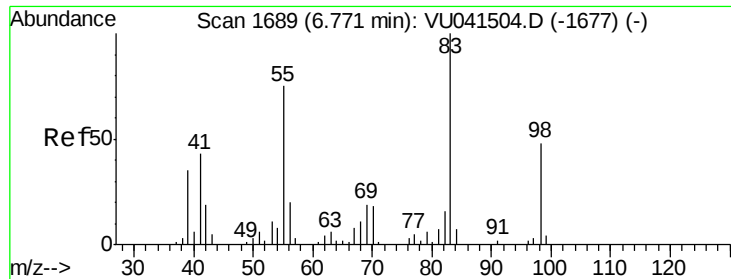
Ion	Ratio	Lower	Upper
95	100		
97	65.3	44.7	83.1
132	98.7	65.7	121.9
130	98.2	68.8	127.8



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

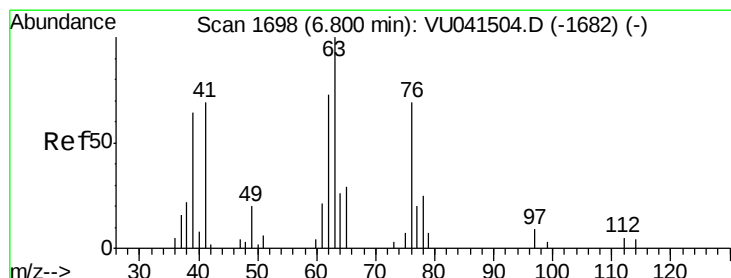
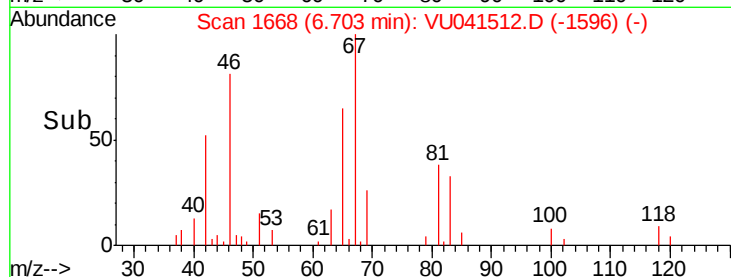
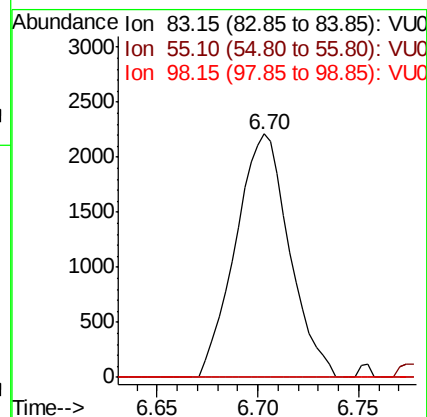
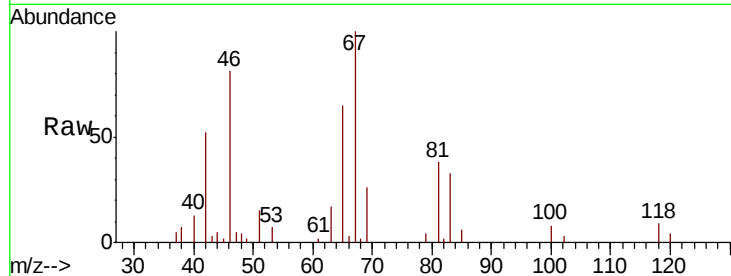




#35
Methvlcvclohexane
Concen: 0.820 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.07 min
Lab File: VU041512.D
Acq: 09 Dec 2020 14:13

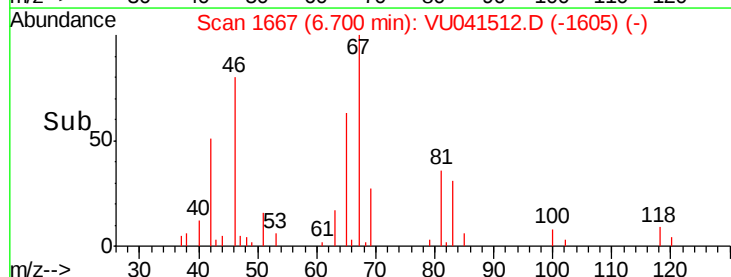
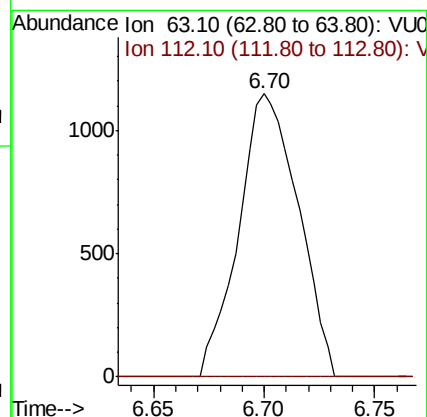
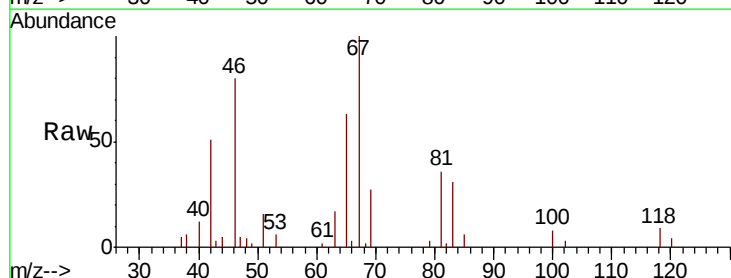
Instrument :
MSVOA_U
ClientSampleId :

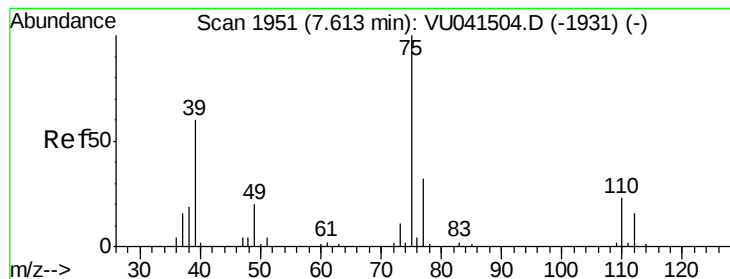
Tot Ion: 83 Resp: 4116
Ion Ratio Lower Upper
83 100
55 2.0 62.1 93.1#
98 12.3 38.7 58.1#



#37
1,2-Dichloropropane
Concen: 0.752 ug/L
RT: 6.70 min Scan# 1667
Delta R.T. -0.10 min
Lab File: VU041512.D
Acq: 09 Dec 2020 14:13

Tgt Ion: 63 Resp: 2148
Ion Ratio Lower Upper
63 100
112 0.0 4.2 6.2#





#39

cis-1,3-Dichloropropene

Concen: 0.101 ug/L

RT: 7.57 min Scan# 1938

Delta R.T. -0.04 min

Lab File: VU041512.D

Acq: 09 Dec 2020 14:13

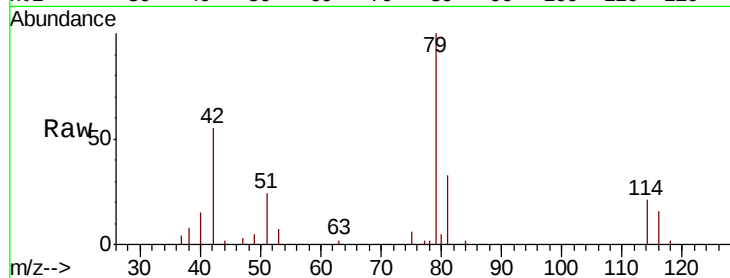
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 75 Resp: 519

Ion Ratio Lower Upper

75 100

77 28.6 24.0 44.6



Abundance Ion 75.05 (74.75 to 75.75): VU041512.D (-1931) (-)

Ion 77.05 (76.75 to 77.75): VU041512.D (-1931) (-)

7.57

7.58

7.59

7.60

7.61

7.62

7.63

7.64

7.65

7.66

7.67

7.68

7.69

7.70

7.71

7.72

7.73

7.74

7.75

7.76

7.77

7.78

7.79

7.80

7.81

7.82

7.83

7.84

7.85

7.86

7.87

7.88

7.89

7.90

7.91

7.92

7.93

7.94

7.95

7.96

7.97

7.98

7.99

8.00

8.01

8.02

8.03

8.04

8.05

8.06

8.07

8.08

8.09

8.10

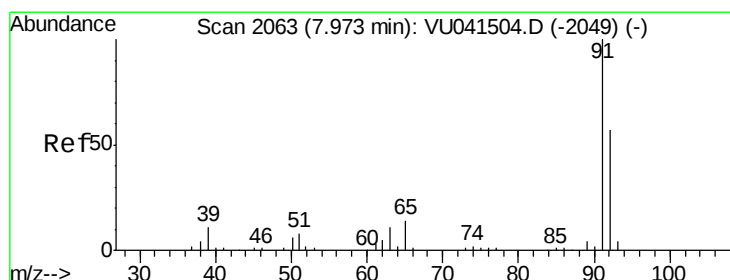
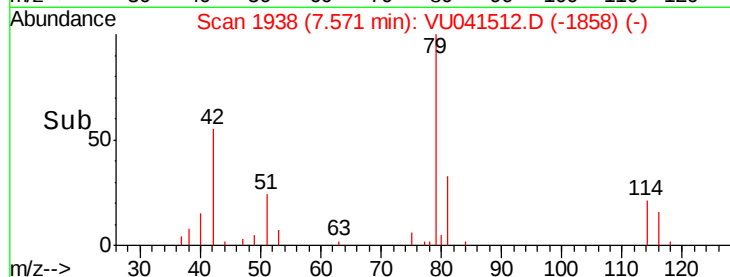
8.11

8.12

8.13

8.14

8.15



#42

Toluene

Concen: 5.006 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU041512.D

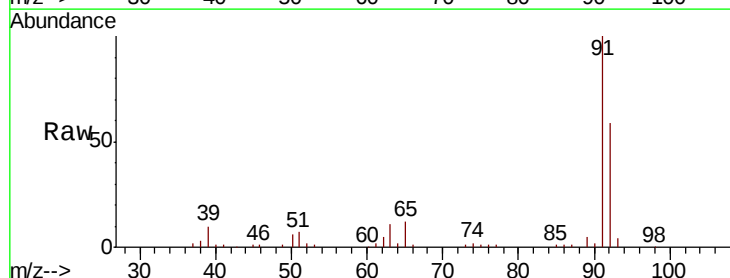
Acq: 09 Dec 2020 14:13

Tgt Ion: 91 Resp: 68702

Ion Ratio Lower Upper

91 100

92 58.7 40.8 75.8



Abundance Ion 91.15 (90.85 to 91.85): VU041512.D (-1970) (-)

Ion 92.15 (91.85 to 92.85): VU041512.D (-1970) (-)

7.98

7.99

8.00

8.01

8.02

8.03

8.04

8.05

8.06

8.07

8.08

8.09

8.10

8.11

8.12

8.13

8.14

8.15

8.16

8.17

8.18

8.19

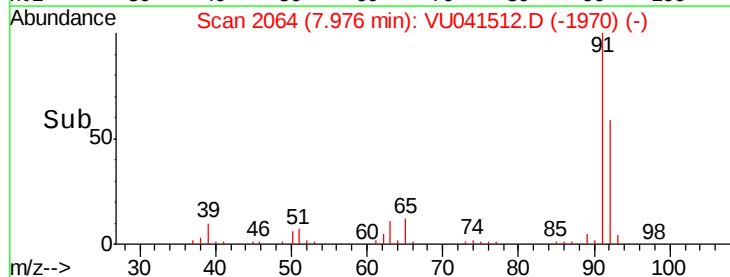
8.20

8.21

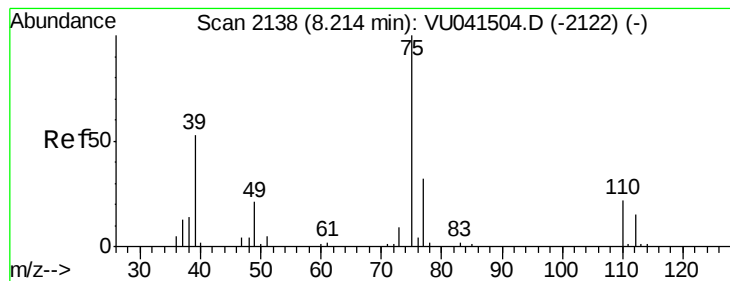
8.22

8.23

8.24



Time-->



#44

trans-1,3-Dichloropropene

Concen: 0.081 ug/L

RT: 8.18 min Scan# 2128

Delta R.T. -0.03 min

Lab File: VU041512.D

Acq: 09 Dec 2020 14:13

Instrument :

MSVOA_U

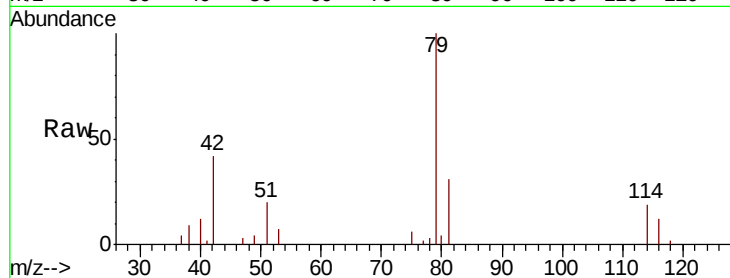
ClientSampleId :

Tot Ion: 75 Resp: 417

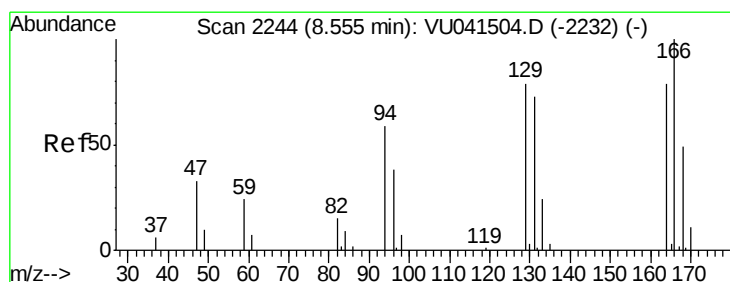
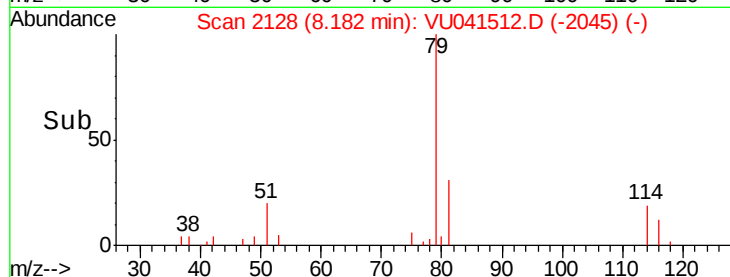
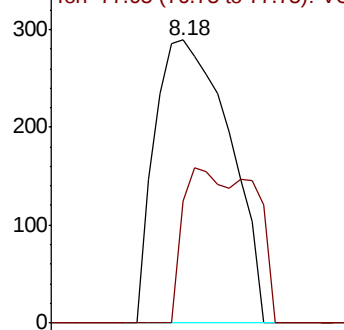
Ion Ratio Lower Upper

75 100

77 43.3 22.7 42.3#



Abundance Ion 75.05 (74.75 to 75.75): VU0



#47

Tetrachloroethene

Concen: 0.094 ug/L

RT: 8.55 min Scan# 2243

Delta R.T. -0.00 min

Lab File: VU041512.D

Acq: 09 Dec 2020 14:13

Tgt Ion:164 Resp: 274

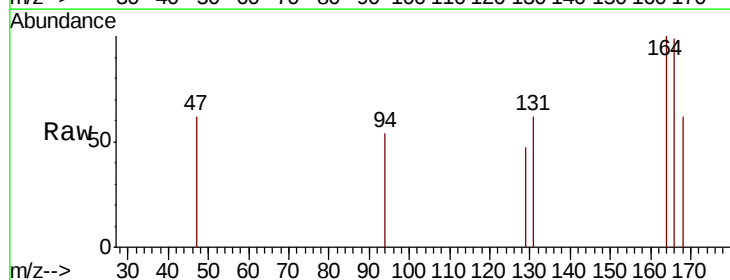
Ion Ratio Lower Upper

164 100

129 46.6 67.1 124.7#

131 62.3 63.3 117.7#

166 98.8 88.8 164.8

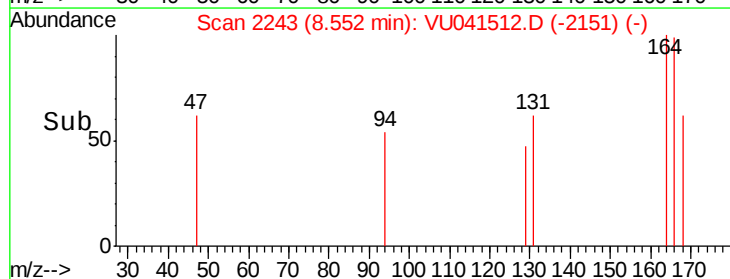
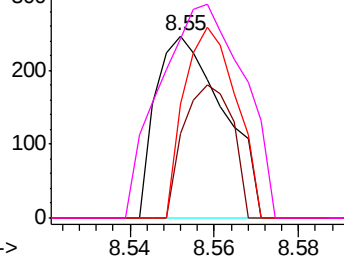


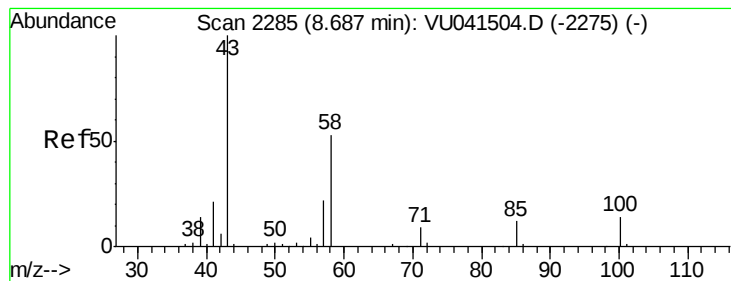
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V





#48

2-Hexanone

Concen: 2.385 ug/L

RT: 8.64 min Scan# 2271

Delta R.T. -0.05 min

Lab File: VU041512.D

Acq: 09 Dec 2020 14:13

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 43 Resp: 4388

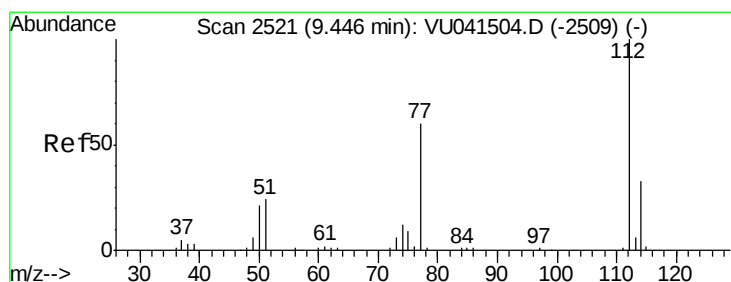
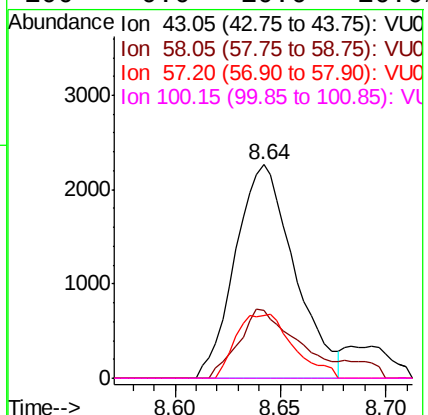
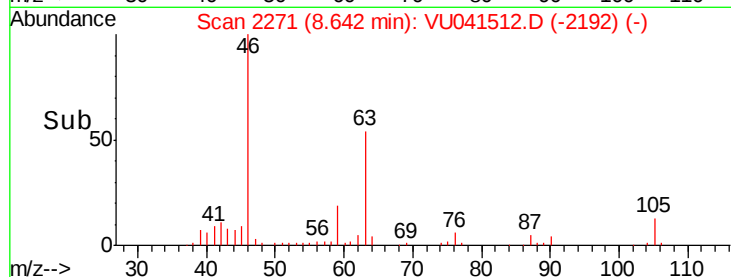
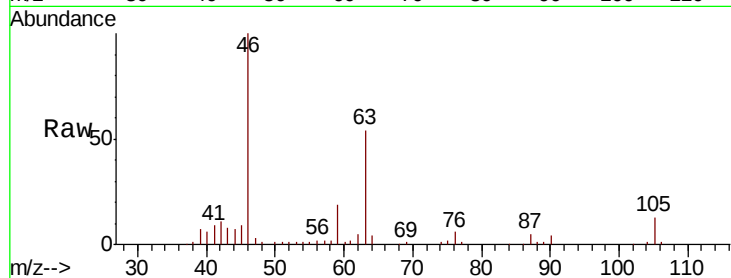
Ion Ratio Lower Upper

43 100

58 32.3 41.4 62.0#

57 28.9 17.1 25.7#

100 0.0 10.6 16.0#



#51

Chlorobenzene

Concen: 5.512 ug/L

RT: 9.45 min Scan# 2522

Delta R.T. 0.00 min

Lab File: VU041512.D

Acq: 09 Dec 2020 14:13

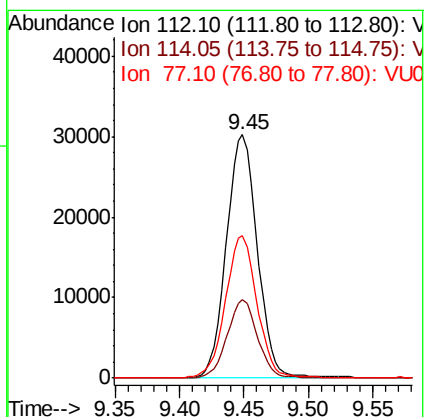
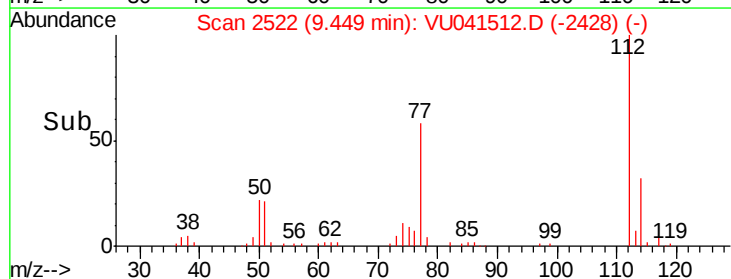
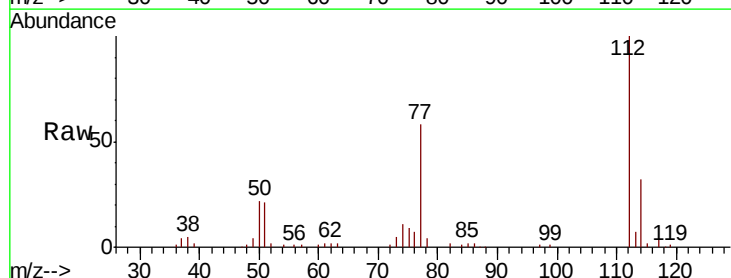
Tgt Ion: 112 Resp: 50413

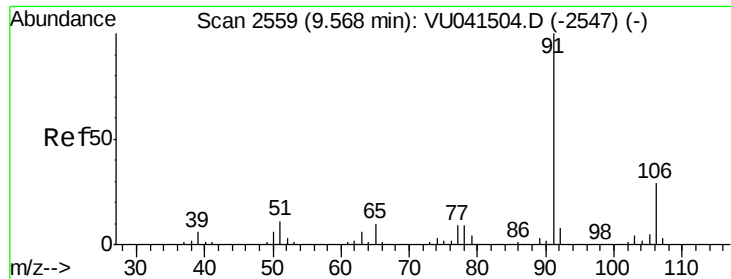
Ion Ratio Lower Upper

112 100

114 32.2 22.7 42.1

77 58.5 48.2 72.2





#52

Ethylbenzene

Concen: 0.107 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. 0.00 min

Lab File: VU041512.D

Acq: 09 Dec 2020 14:13

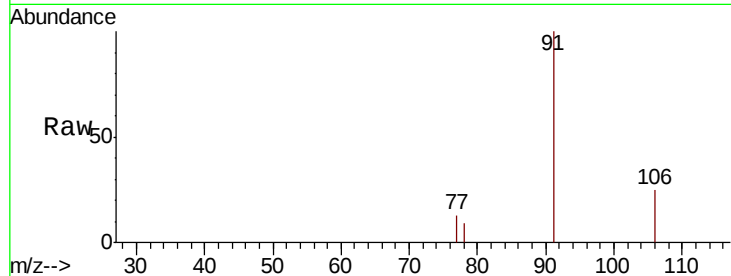
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 1678

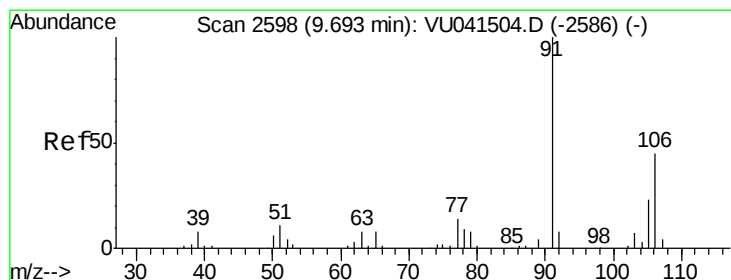
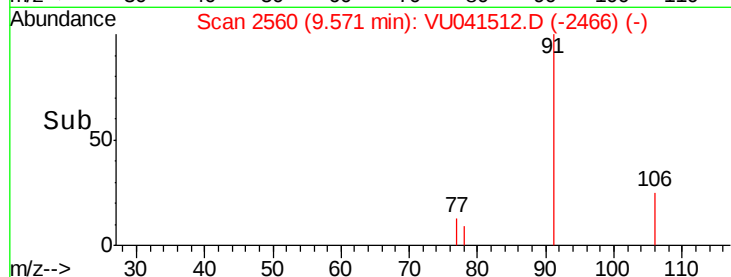
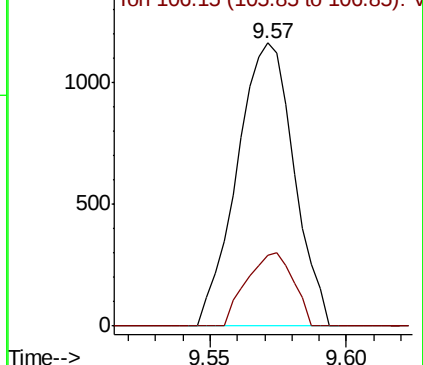
Ion Ratio Lower Upper

91 100

106 24.8 21.8 40.4



Abundance Ion 91.15 (90.85 to 91.85): VU041512.D (-2560) (-)



#53

m,p-Xylene

Concen: 0.100 ug/L

RT: 9.69 min Scan# 2597

Delta R.T. -0.00 min

Lab File: VU041512.D

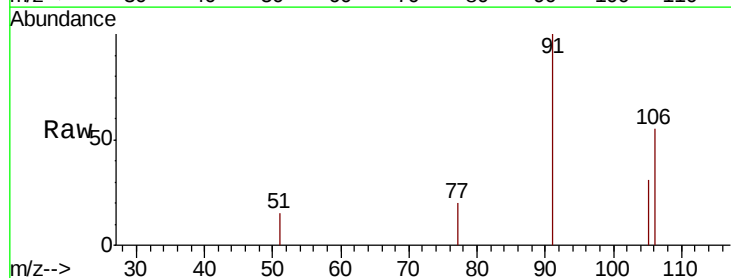
Acq: 09 Dec 2020 14:13

Tgt Ion: 106 Resp: 572

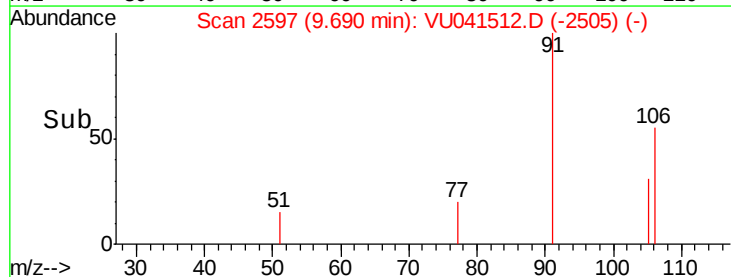
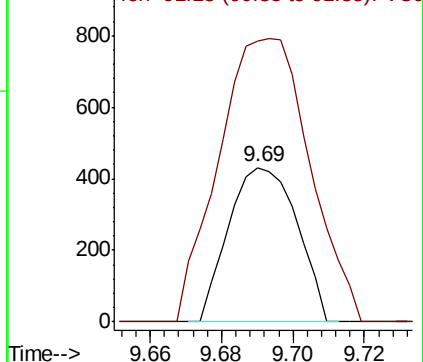
Ion Ratio Lower Upper

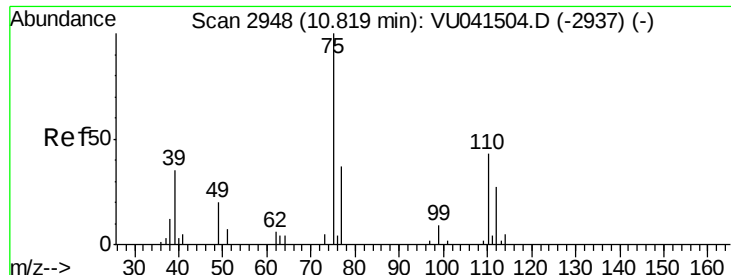
106 100

91 182.1 151.8 282.0



Abundance Ion 106.15 (105.85 to 106.85): VU041512.D (-2597) (-)





#59

1,2,3-Trichloropropane

Concen: 0.842 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.99 min

Lab File: VU041512.D

Acq: 09 Dec 2020 14:13

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 75 Resp: 2334

Ion Ratio Lower Upper

75 100

77 43.7 26.3 39.5#

