

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111720\
 Data File : VU041301.D
 Acq On : 18 Nov 2020 01:25
 Operator : SY/MD
 Sample : L4759-10DL 10X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 H4427DL

Quant Time: Nov 18 06:12:43 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	64381	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	64347	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	27685	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	22537	4.76	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	95.20%
7) Chloroethane-d5	1.92	69	20603	5.09	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	101.80%
11) 1,1-Dichloroethene-d2	2.58	63	36209	3.70	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	74.00%
20) 2-Butanone-d5	4.66	46	94181	48.23	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	96.46%
24) Chloroform-d	5.08	84	51046	4.98	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.60%
26) 1,2-Dichloroethane-d4	5.72	65	31627	4.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.60%
32) Benzene-d6	5.74	84	85575	4.93	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.60%
36) 1,2-Dichloropropane-d6	6.70	67	29326	4.91	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.20%
41) Toluene-d8	7.91	98	68619	4.20	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.00%
43) trans-1,3-Dichloropropene-	8.19	79	11478	4.46	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.20%
46) 2-Hexanone-d5	8.64	63	62667	45.60	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	91.20%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	25761	4.44	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	88.80%
64) 1,2-Dichlorobenzene-d4	12.19	152	26652	4.93	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.60%

Target Compounds

					Ovalue
5) Vinyl chloride	1.61	62	1761	0.315 ug/L #	1
8) Chloroethane	1.93	64	140	0.038 ug/L #	43
10) 1,1,2-Trichloro-1,2,2-trif	2.57	101	213	0.045 ug/L #	22
16) Methylene chloride	3.06	84	3194	0.608 ug/L	95
18) trans-1,2-Dichloroethene	3.37	96	2145	0.526 ug/L	85
19) 1,1-Dichloroethane	3.89	63	511	0.056 ug/L #	80
22) cis-1,2-Dichloroethene	4.69	96	28797	6.247 ug/L	99
25) Chloroform	5.10	83	866	0.088 ug/L	90
27) 1,2-Dichloroethane	5.74	62	504	0.071 ug/L #	74
34) Trichloroethene	6.55	95	37878	8.037 ug/L	99
35) Methylcyclohexane	6.70	83	6735	1.076 ug/L #	13
37) 1,2-Dichloropropane	6.70	63	3442	0.675 ug/L #	86
39) cis-1,3-Dichloropropene	7.57	75	829	0.117 ug/L #	60
44) trans-1,3-Dichloropropene	8.19	75	454	0.068 ug/L	85
47) Tetrachloroethene	8.56	164	1176	0.338 ug/L	83
48) 2-Hexanone	8.64	43	8493	2.697 ug/L #	73
49) Dibromochloromethane	8.56	129	1146	0.245 ug/L #	11

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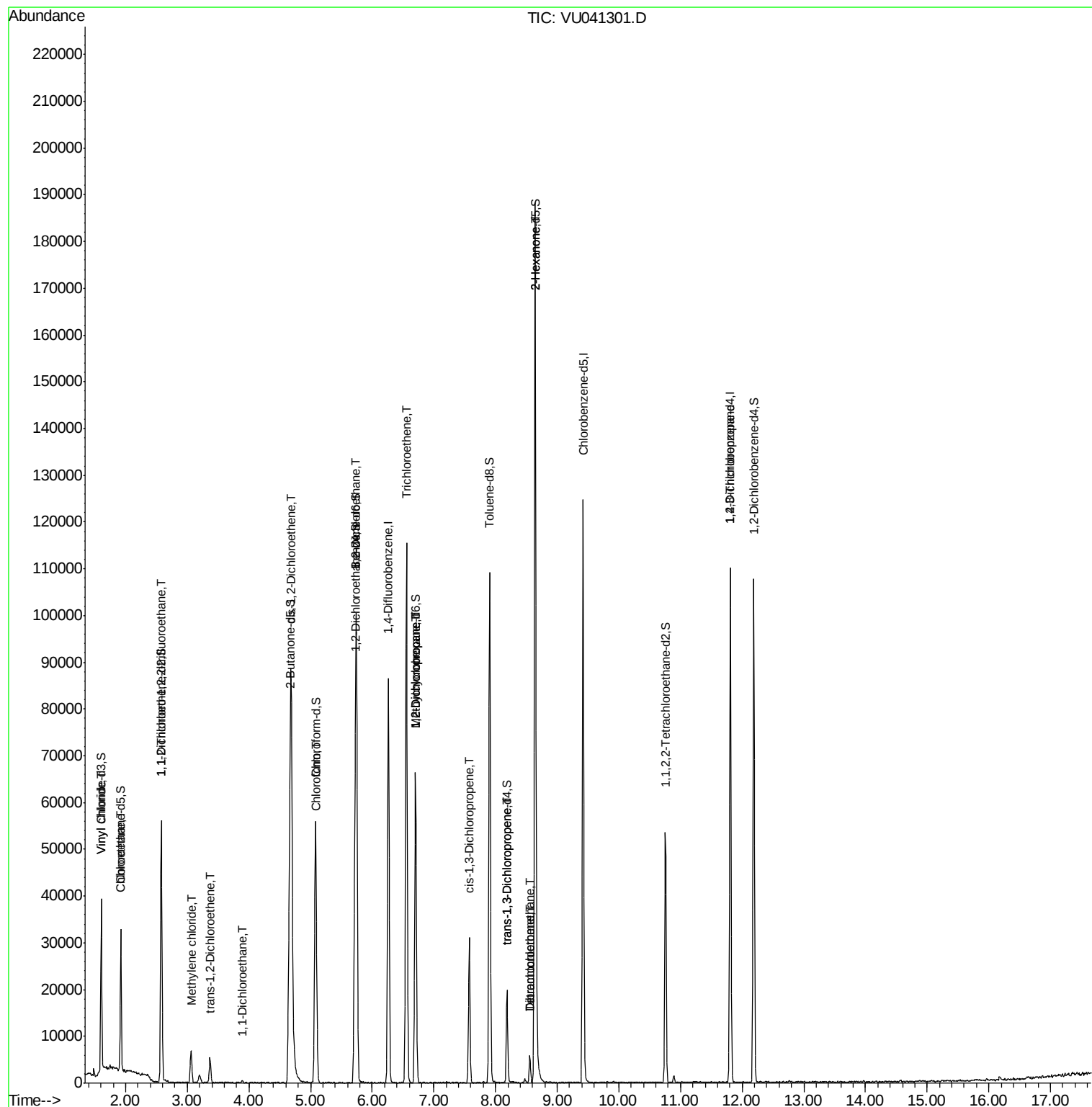
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) 1,2,3-Trichloropropane	11.81	75	3544	0.882	ug/L #	82

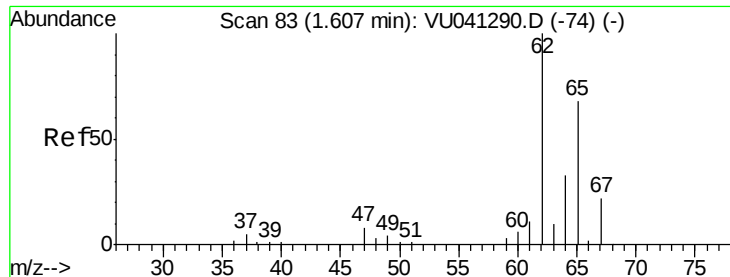
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.315 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU041301.D

Acq: 18 Nov 2020 01:25

Instrument :

MSVOA_U

ClientSampleID :

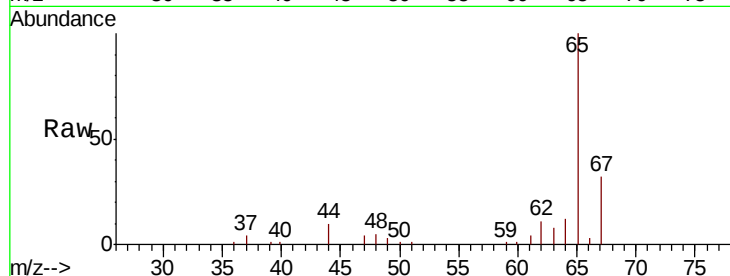
H4427DL

Tot Ion: 62 Resp: 1761

Ion Ratio Lower Upper

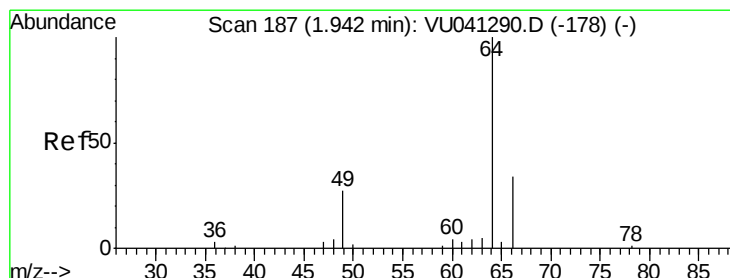
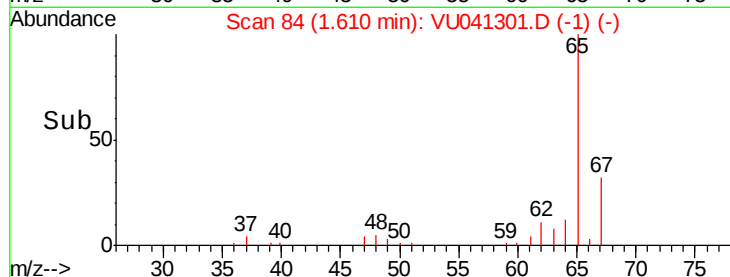
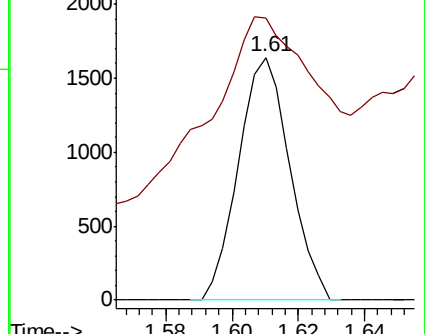
62 100

64 115.9 22.7 42.3#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#8

Chloroethane

Concen: 0.038 ug/L

RT: 1.93 min Scan# 185

Delta R.T. -0.01 min

Lab File: VU041301.D

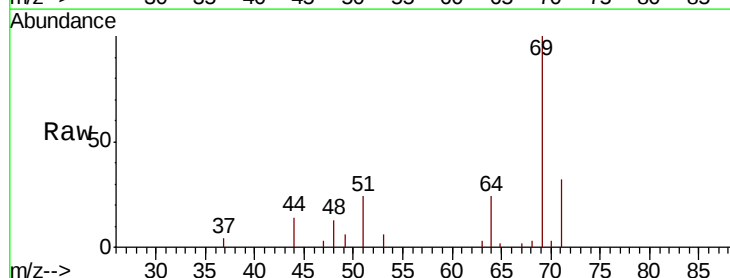
Acq: 18 Nov 2020 01:25

Tgt Ion: 64 Resp: 140

Ion Ratio Lower Upper

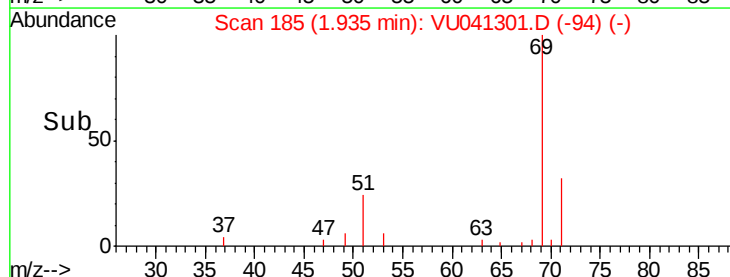
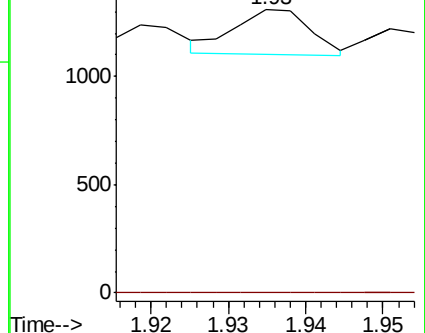
64 100

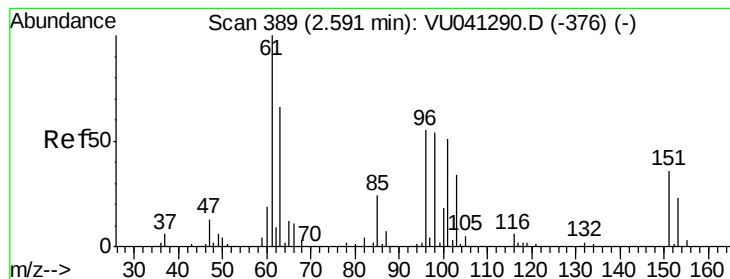
66 0.0 22.3 41.5#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0





#10

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

Concen: 0.045 ug/L

RT: 2.57 min Scan# 384

Delta R.T. -0.02 min

Lab File: VU041301.D

Acq: 18 Nov 2020 01:25

Instrument :

MSVOA_U

ClientSampleId :

H4427DL

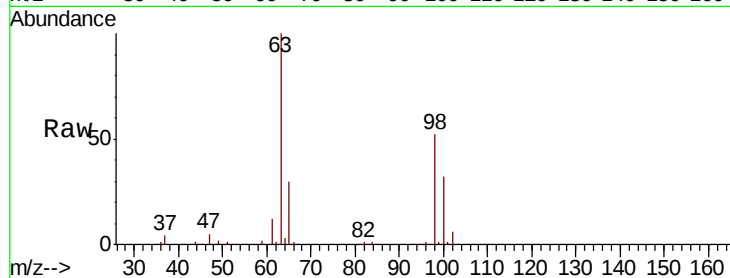
Tot Ion:101 Resp: 213

Ion Ratio Lower Upper

101 100

85 0.0 35.0 52.4#

151 0.0 55.3 82.9#



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

250

200

150

100

50

0

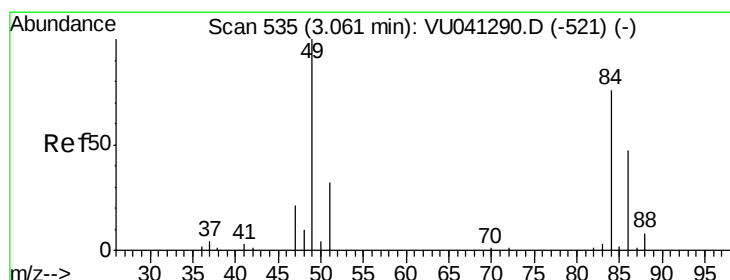
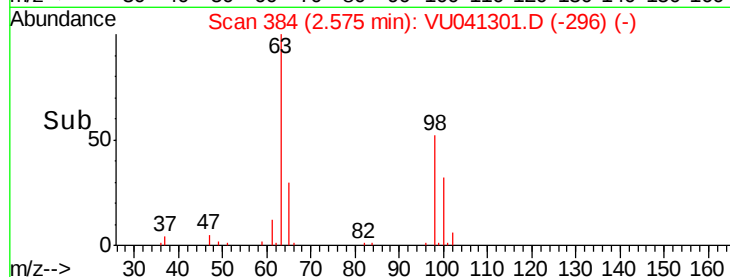
2.56

2.57

2.58

2.60

Time-->



#16

Methylene chloride

Concen: 0.608 ug/L

RT: 3.06 min Scan# 536

Delta R.T. 0.00 min

Lab File: VU041301.D

Acq: 18 Nov 2020 01:25

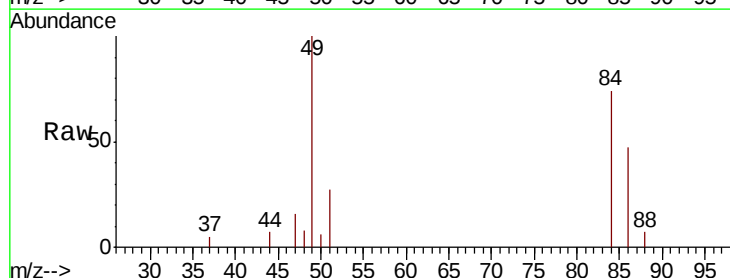
Tgt Ion: 84 Resp: 3194

Ion Ratio Lower Upper

84 100

86 64.0 42.8 79.6

49 135.2 99.5 184.7



Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0

3000

2500

2000

1500

1000

500

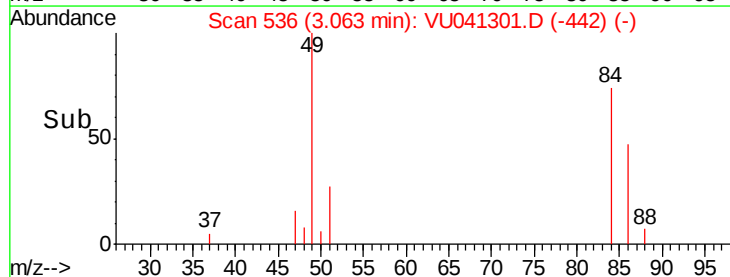
0

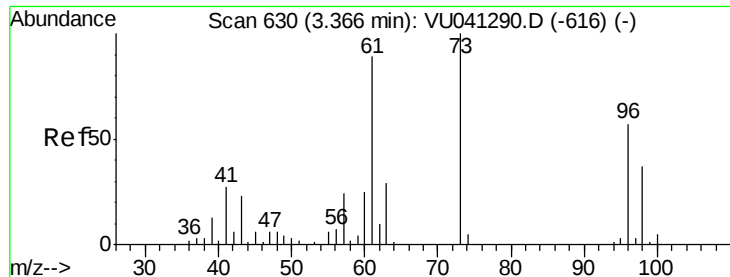
3.00

3.05

3.10

Time-->





#18

trans-1,2-Dichloroethene

Concen: 0.526 ug/L

RT: 3.37 min Scan# 631

Delta R.T. 0.00 min

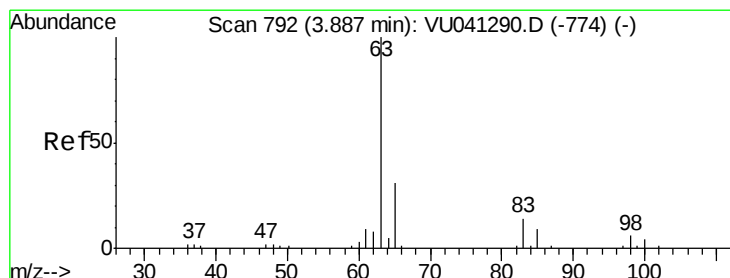
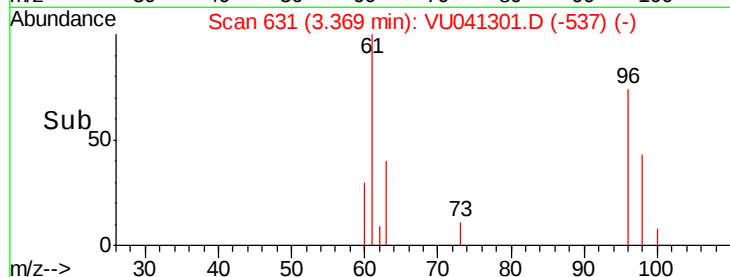
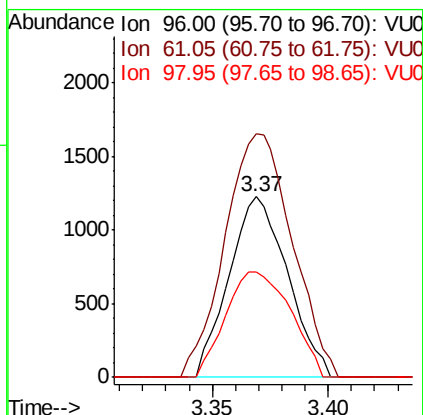
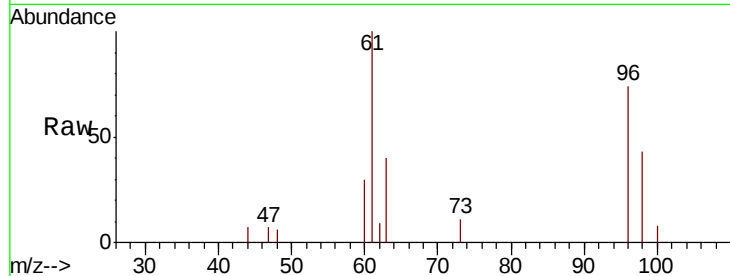
Lab File: VU041301.D

Acq: 18 Nov 2020 01:25

Instrument :
MSVOA_U
ClientSampleId :
H4427DL

Tot Ion: 96 Resp: 2145

Ion	Ratio	Lower	Upper
96	100		
61	134.8	110.9	205.9
98	58.5	45.4	84.2



#19

1,1-Dichloroethane

Concen: 0.056 ug/L

RT: 3.89 min Scan# 793

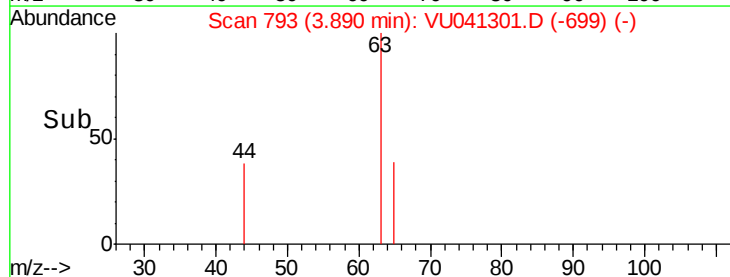
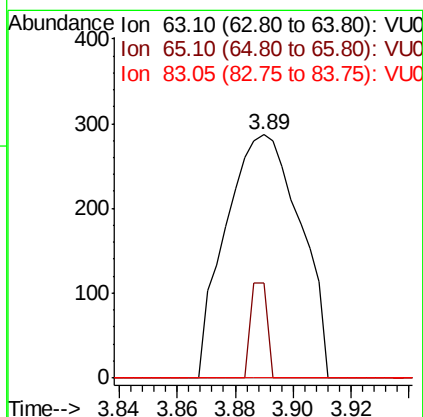
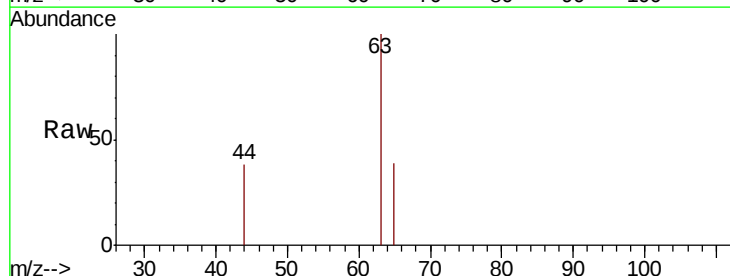
Delta R.T. 0.00 min

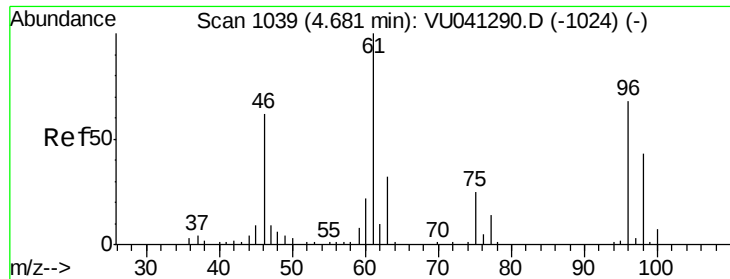
Lab File: VU041301.D

Acq: 18 Nov 2020 01:25

Tgt Ion: 63 Resp: 511

Ion	Ratio	Lower	Upper
63	100		
65	39.0	21.3	39.6
83	0.0	8.8	16.3#

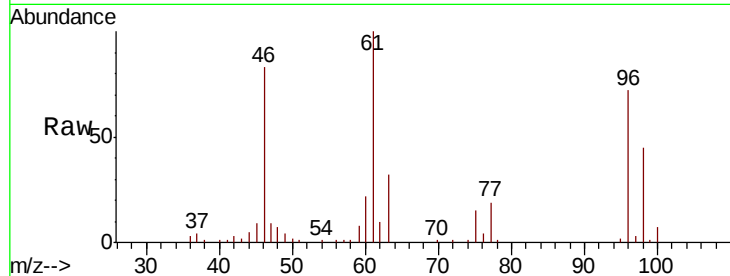




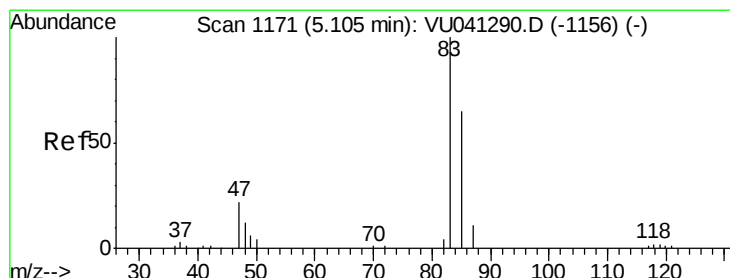
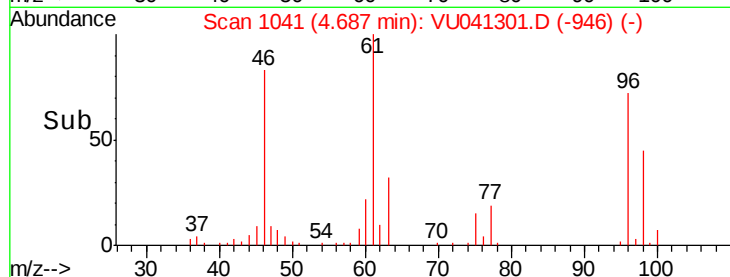
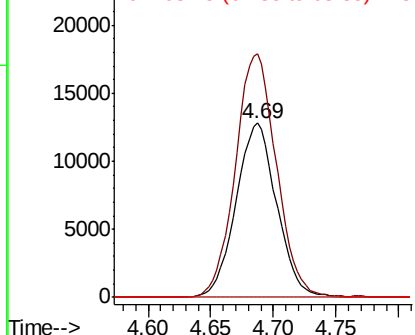
#22
 cis-1,2-Dichloroethene
 Concen: 6.247 ug/L
 RT: 4.69 min Scan# 1041
 Delta R.T. 0.01 min
 Lab File: VU041301.D
 Acq: 18 Nov 2020 01:25

Instrument :
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 ClientSampleId :
 H4427DL

Tot Ion: 96 Resp: 28797
 Ion Ratio Lower Upper
 96 100
 61 139.8 97.2 180.4
 68 0.0 0.0 0.0

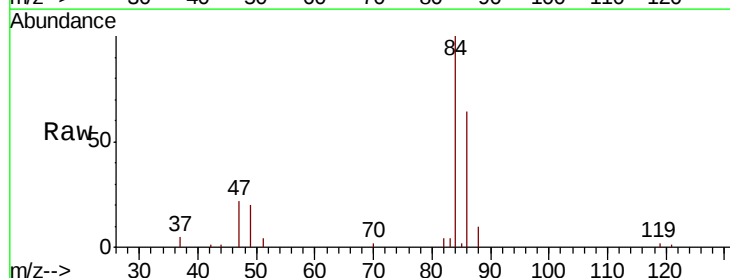


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

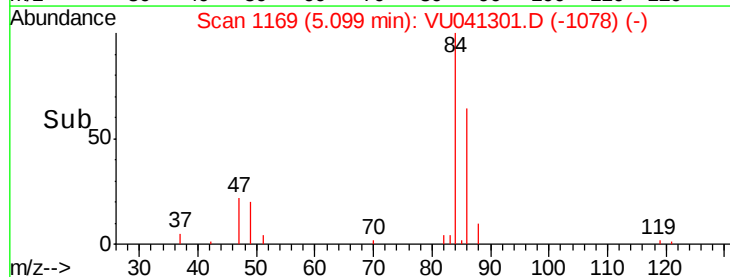
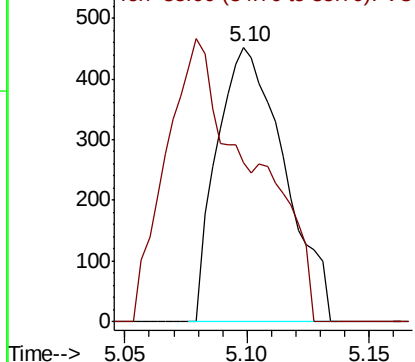


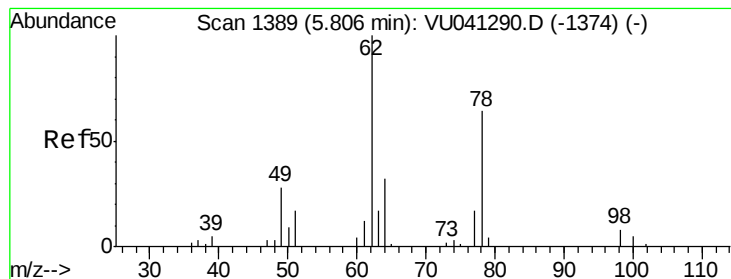
#25
 Chloroform
 Concen: 0.088 ug/L
 RT: 5.10 min Scan# 1169
 Delta R.T. -0.01 min
 Lab File: VU041301.D
 Acq: 18 Nov 2020 01:25

Tgt Ion: 83 Resp: 866
 Ion Ratio Lower Upper
 83 100
 85 58.2 46.1 85.7



Abundance Ion 83.05 (82.75 to 83.75): VU0
 Ion 85.00 (84.70 to 85.70): VU0





#27

1,2-Dichloroethane

Concen: 0.071 ug/L

RT: 5.74 min Scan# 1370

Delta R.T. -0.06 min

Lab File: VU041301.D

Acq: 18 Nov 2020 01:25

Instrument :

MSVOA_U

ClientSampleId :

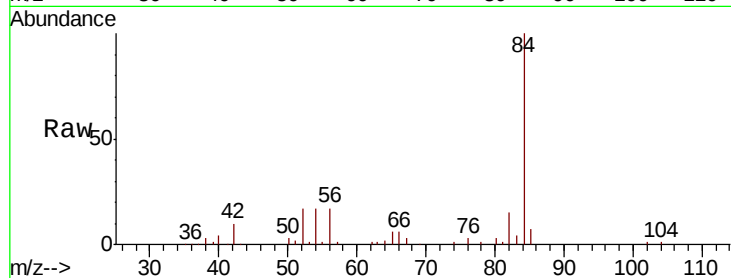
H4427DL

Tot Ion: 62 Resp: 504

Ion Ratio Lower Upper

62 100

98 0.0 7.6 11.4#



Abundance Ion 62.00 (61.70 to 62.70): VU041301.D (-1296) (-)

Ion 98.05 (97.75 to 98.75): VU041301.D (-1296) (-)

5.74

300

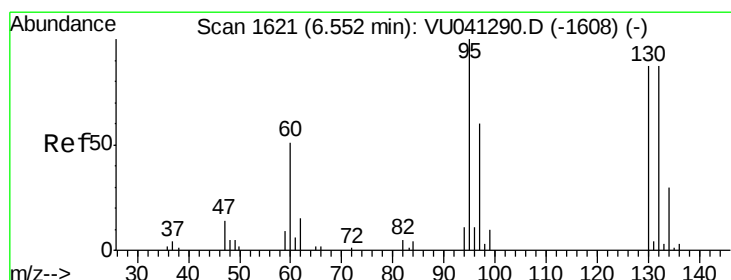
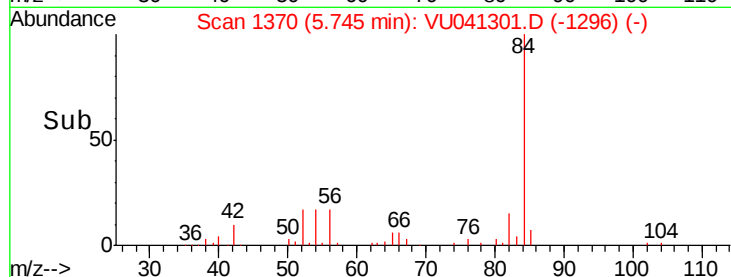
200

100

0

5.70 5.72 5.74 5.76 5.78

Time-->



#34

Trichloroethene

Concen: 8.037 ug/L

RT: 6.55 min Scan# 1621

Delta R.T. -0.00 min

Lab File: VU041301.D

Acq: 18 Nov 2020 01:25

Tgt Ion: 95 Resp: 37878

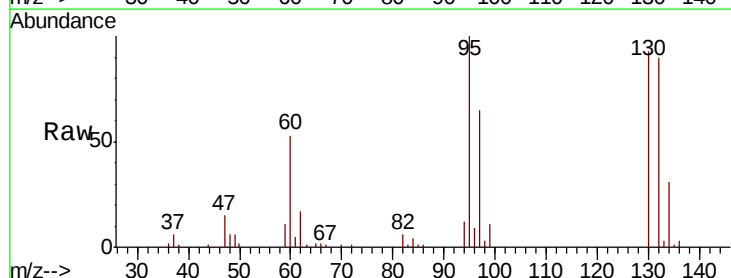
Ion Ratio Lower Upper

95 100

97 64.6 45.6 84.6

132 90.2 64.8 120.4

130 92.6 64.8 120.4



Abundance Ion 95.00 (94.70 to 95.70): VU041301.D (-1528) (-)

Ion 96.95 (96.65 to 97.65): VU041301.D (-1528) (-)

Ion 131.95 (131.65 to 132.65): VU041301.D (-1528) (-)

Ion 129.95 (129.65 to 130.65): VU041301.D (-1528) (-)

6.55

30000

25000

20000

15000

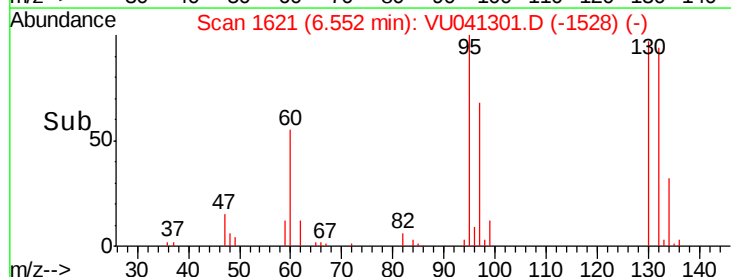
10000

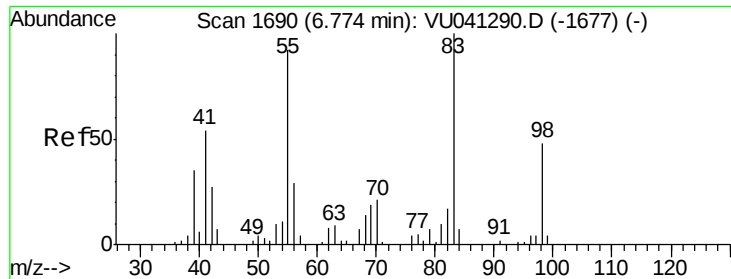
5000

0

6.50 6.55 6.60 6.65

Time-->

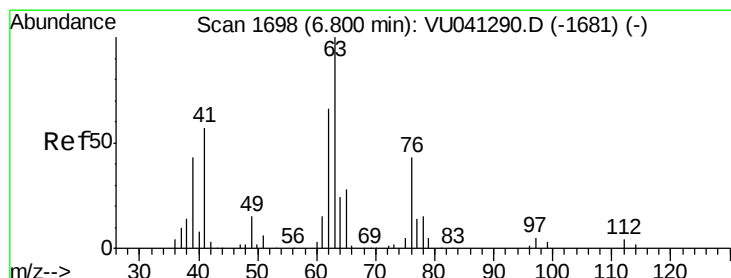
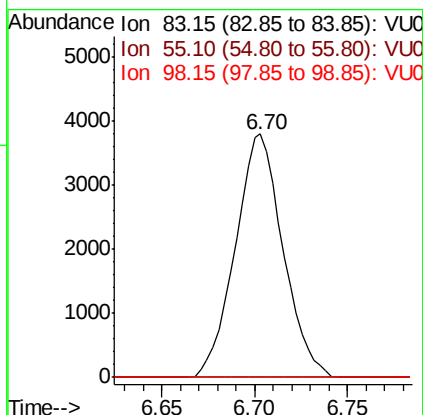
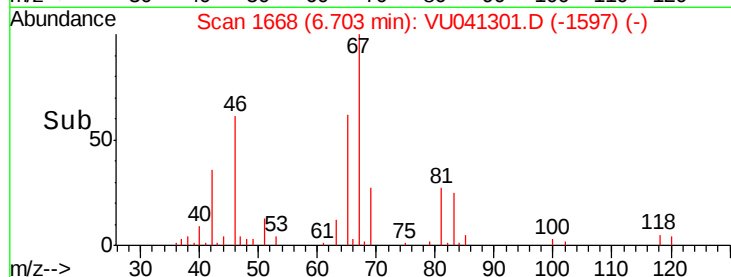
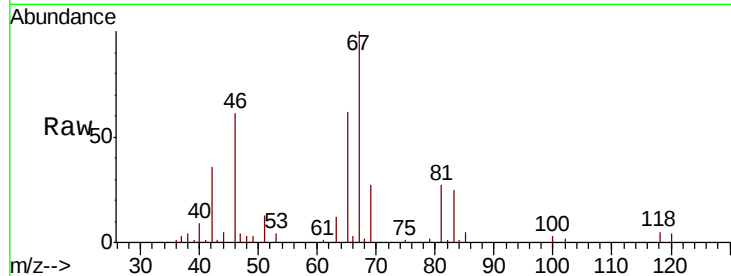




#35
Methylcyclohexane
Concen: 1.076 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.07 min
Lab File: VU041301.D
Acq: 18 Nov 2020 01:25

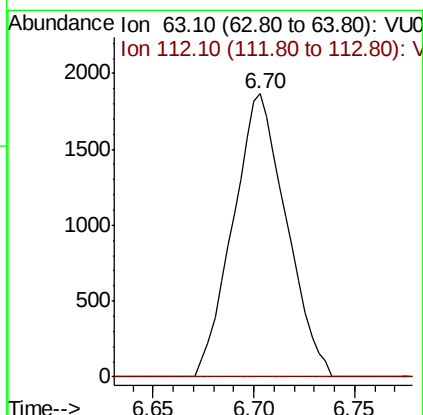
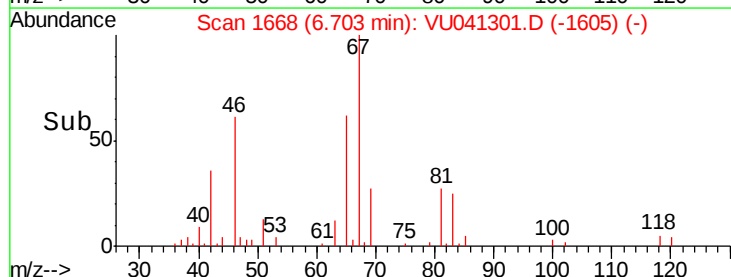
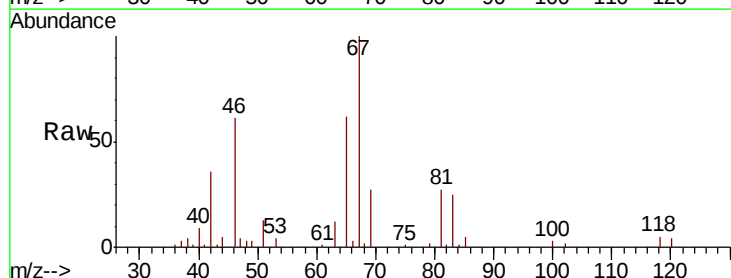
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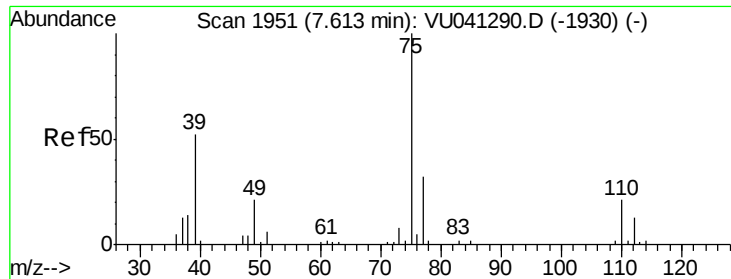
Tot Ion: 83 Resp: 6735
Ion Ratio Lower Upper
83 100
55 0.0 72.0 108.0#
98 0.0 36.6 55.0#



#37
1,2-Dichloropropane
Concen: 0.675 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.10 min
Lab File: VU041301.D
Acq: 18 Nov 2020 01:25

Tgt Ion: 63 Resp: 3442
Ion Ratio Lower Upper
63 100
112 0.0 3.6 5.4#

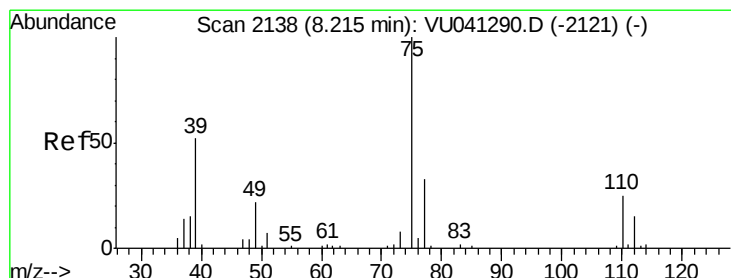
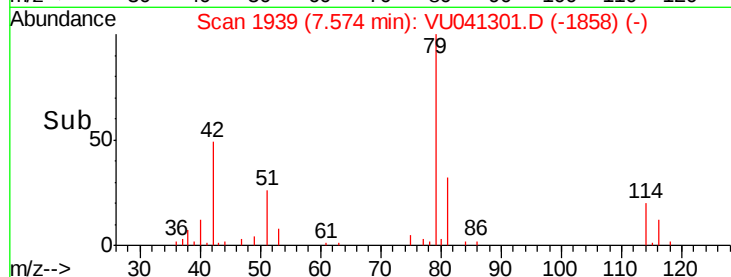
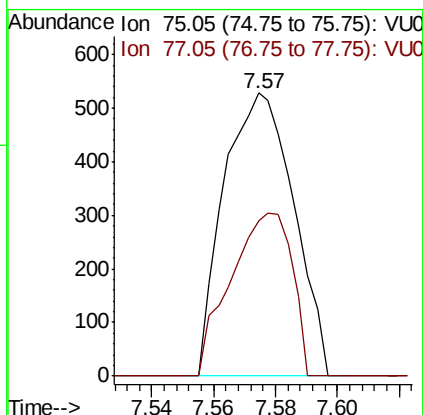
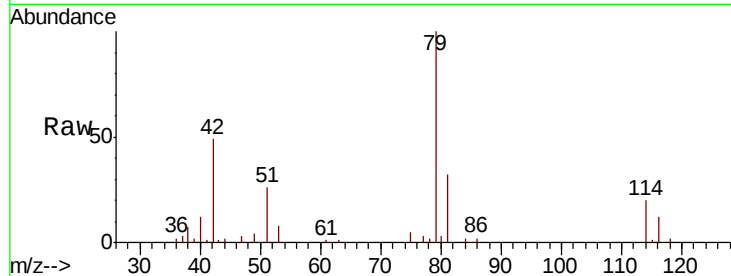




#39
 cis-1,3-Dichloropropene
 Concen: 0.117 ug/L
 RT: 7.57 min Scan# 1939
 Delta R.T. -0.04 min
 Lab File: VU041301.D
 Acq: 18 Nov 2020 01:25

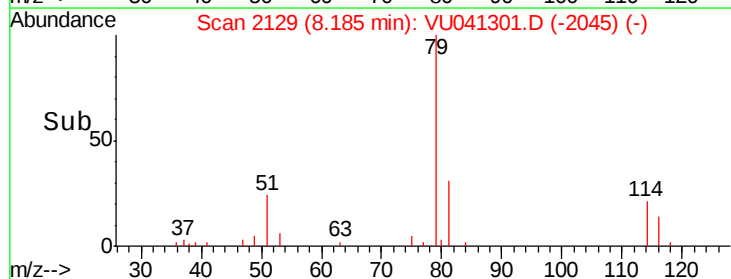
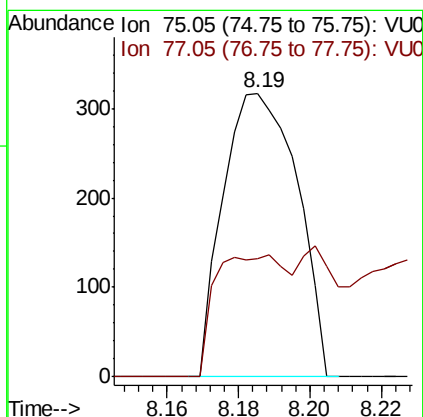
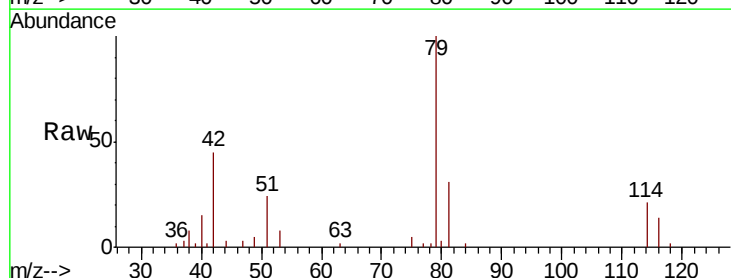
Instrument :
 MSVOA_U
 ClientSampleId :
 H4427DL

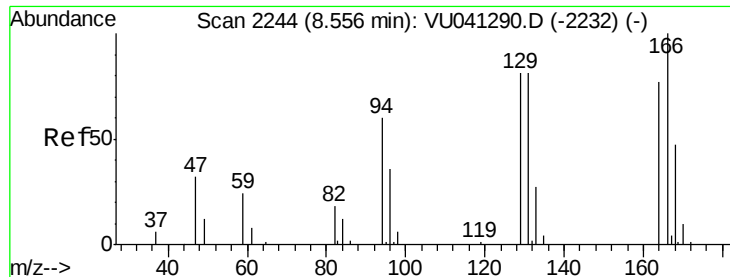
Tot Ion: 75 Resp: 829
 Ion Ratio Lower Upper
 75 100
 77 54.7 22.7 42.3#



#44
 trans-1,3-Dichloropropene
 Concen: 0.068 ug/L
 RT: 8.19 min Scan# 2129
 Delta R.T. -0.03 min
 Lab File: VU041301.D
 Acq: 18 Nov 2020 01:25

Tgt Ion: 75 Resp: 454
 Ion Ratio Lower Upper
 75 100
 77 41.6 23.3 43.3





#47

Tetrachloroethene

Concen: 0.338 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.00 min

Lab File: VU041301.D

Acq: 18 Nov 2020 01:25

Instrument :

MSVOA_U

ClientSampleId :

H4427DL

Tot Ion:164 Resp: 1176

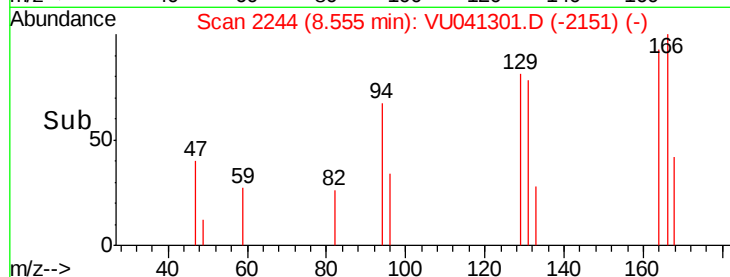
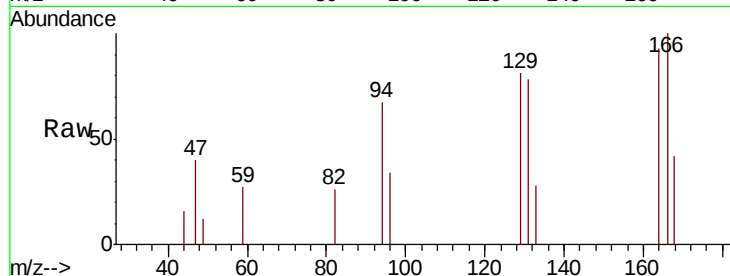
Ion Ratio Lower Upper

164 100

129 87.1 70.3 130.7

131 84.5 70.8 131.4

166 107.9 92.0 170.8

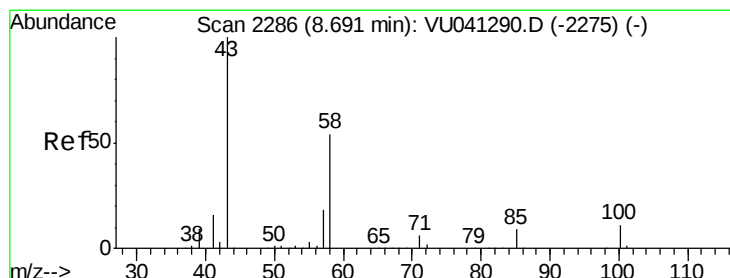
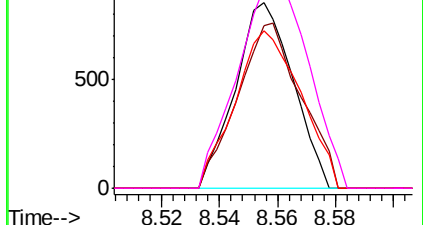


Abundance Ion 163.90 (163.60 to 164.60): V

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: 2.697 ug/L

RT: 8.64 min Scan# 2271

Delta R.T. -0.05 min

Lab File: VU041301.D

Acq: 18 Nov 2020 01:25

Tgt Ion: 43 Resp: 8493

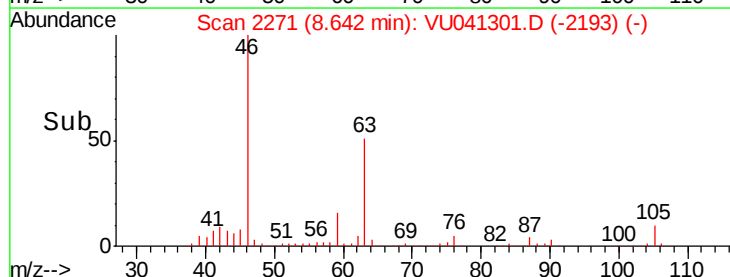
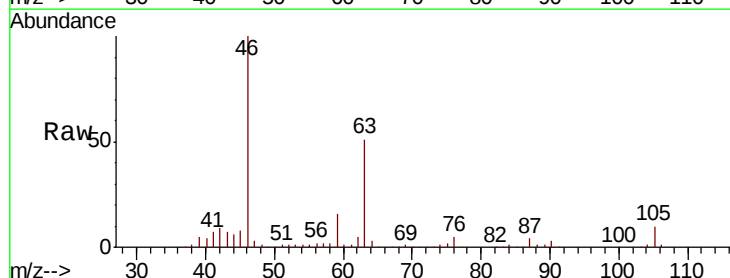
Ion Ratio Lower Upper

43 100

58 35.8 41.4 62.2#

57 36.3 14.6 21.8#

100 0.8 8.3 12.5#

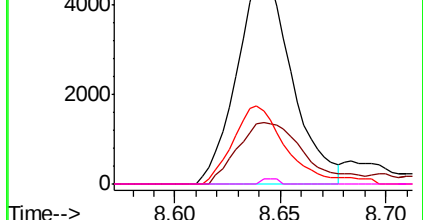


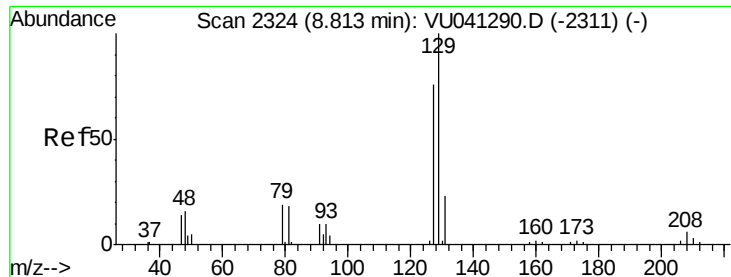
Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 57.20 (56.90 to 57.90): VU0

Ion 100.15 (99.85 to 100.85): VU0





#49

Dibromochloromethane

Concen: 0.245 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.25 min

Lab File: VU041301.D

Acq: 18 Nov 2020 01:25

Instrument :

MSVOA_U

ClientSampleId :

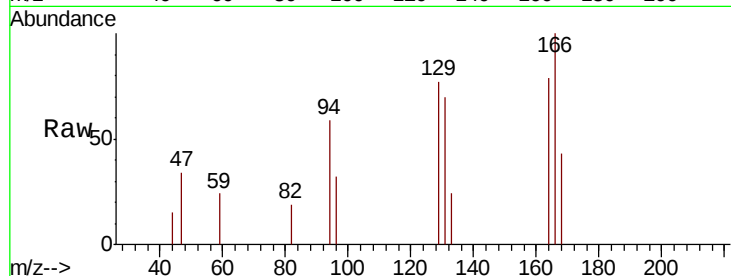
H4427DL

Tot Ion:129 Resp: 1146

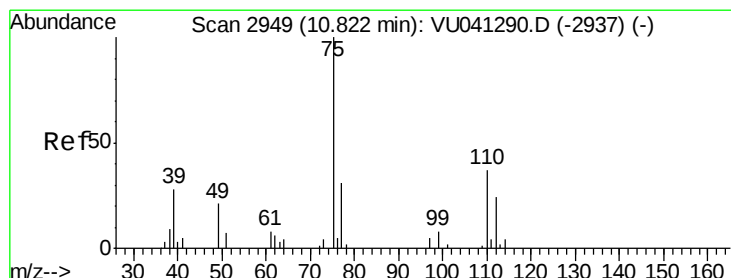
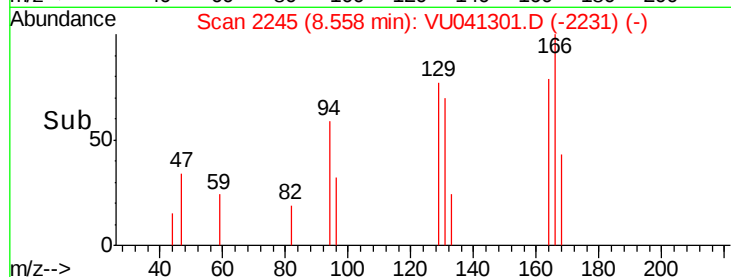
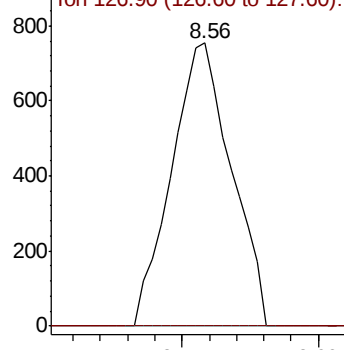
Ion Ratio Lower Upper

129 100

127 0.0 53.4 99.2#



Abundance Ion 128.95 (128.65 to 129.65): V



#59

1,2,3-Trichloropropane

Concen: 0.882 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU041301.D

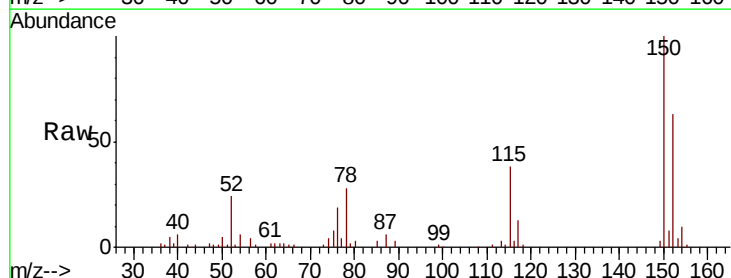
Acq: 18 Nov 2020 01:25

Tgt Ion: 75 Resp: 3544

Ion Ratio Lower Upper

75 100

77 42.2 25.7 38.5#



Abundance Ion 75.00 (74.70 to 75.70): VU0

