

Data File : VU041322.D
Acq On : 18 Nov 2020 19:25
Operator : SY/MD
Sample : L4790-05
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
H4391

Quant Time: Nov 19 00:52:17 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR111620WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Nov 19 00:50:13 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	60591	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	63195	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	28469	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.59	65	19696	4.42	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	88.40%
7) Chloroethane-d5	1.91	69	17698	4.64	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	92.80%
11) 1,1-Dichloroethene-d2	2.57	63	31745	3.45	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	69.00%
20) 2-Butanone-d5	4.75	46	65779	35.79	ug/L	0.09
Spiked Amount	50.000	Range	40 - 130	Recovery	=	71.58%
24) Chloroform-d	5.08	84	47601	4.94	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.80%
26) 1,2-Dichloroethane-d4	5.72	65	29350	4.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.40%
32) Benzene-d6	5.74	84	80107	4.70	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.00%
36) 1,2-Dichloropropane-d6	6.70	67	28351	4.83	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.60%
41) Toluene-d8	7.90	98	66472	4.14	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	82.80%
43) trans-1,3-Dichloropropene-	8.19	79	11111	4.40	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.00%
46) 2-Hexanone-d5	8.65	63	56754	42.05	ug/L	0.01
Spiked Amount	50.000	Range	45 - 130	Recovery	=	84.10%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	25118	4.41	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	88.20%
64) 1,2-Dichlorobenzene-d4	12.19	152	28369	5.11	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	102.20%

Target Compounds

					Qvalue
3) Chloromethane	1.52	50	280	0.052 ug/L #	43
5) Vinyl chloride	1.60	62	24959	4.745 ug/L	93
8) Chloroethane	1.93	64	1923	0.551 ug/L #	56
10) 1,1,2-Trichloro-1,2,2-trif	2.57	101	227	0.051 ug/L #	22
13) Acetone	2.80	43	5447	4.468 ug/L	81
14) Carbon disulfide	2.79	76	3398	0.293 ug/L #	88
18) trans-1,2-Dichloroethene	3.36	96	17472	4.548 ug/L	99
19) 1,1-Dichloroethane	3.88	63	3049	0.355 ug/L #	84
21) 2-Butanone	4.83	43	7855	4.244 ug/L #	59
22) cis-1,2-Dichloroethene	4.68	96	18830	4.340 ug/L	98
27) 1,2-Dichloroethane	5.81	62	1362	0.203 ug/L #	74
33) Benzene	5.78	78	26594	1.553 ug/L	100
34) Trichloroethene	6.55	95	2039	0.441 ug/L	90
35) Methylcyclohexane	6.70	83	6890	1.121 ug/L #	15
37) 1,2-Dichloropropane	6.70	63	3528	0.705 ug/L #	86
39) cis-1,3-Dichloropropene	7.57	75	728	0.104 ug/L #	53
42) Toluene	7.97	91	53994	2.950 ug/L	96

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QLast Update : Thu Nov 19 00:50:13 2020
Response via : Initial Calibration

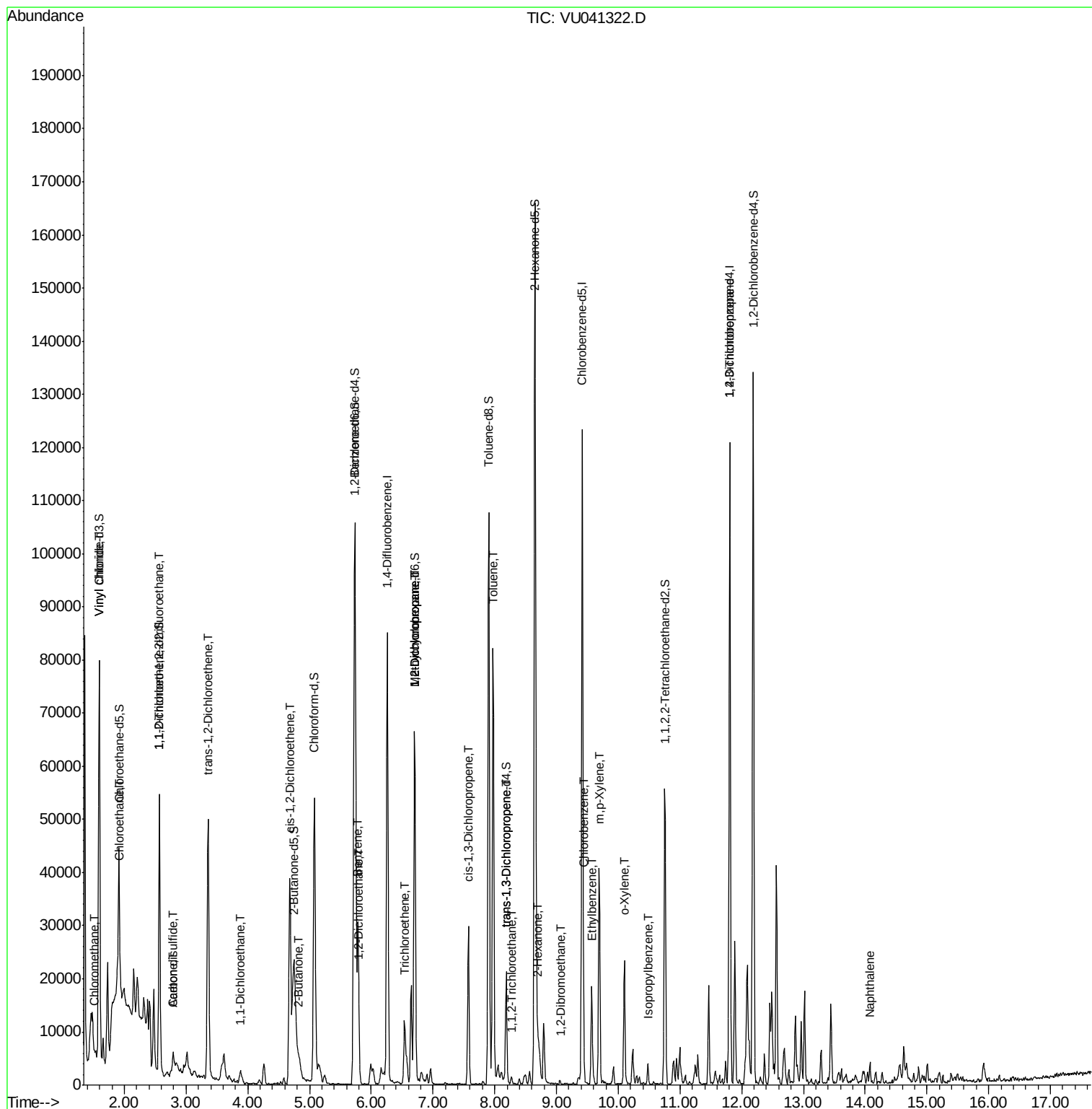
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) trans-1,3-Dichloropropene	8.19	75	509	0.077	ug/L #	58
45) 1,1,2-Trichloroethane	8.28	97	526	0.136	ug/L #	11
48) 2-Hexanone	8.70	43	2158	0.698	ug/L #	75
50) 1,2-Dibromoethane	9.06	107	169	0.047	ug/L #	6
51) Chlorobenzene	9.45	112	719	0.059	ug/L #	89
52) Ethylbenzene	9.57	91	11689	0.598	ug/L	95
53) m,p-Xylene	9.69	106	10195	1.443	ug/L	94
54) o-Xylene	10.10	106	5425	0.797	ug/L	98
56) Isopropylbenzene	10.48	105	1526	0.085	ug/L #	86
59) 1,2,3-Trichloropropane	11.80	75	3687	0.934	ug/L #	71
69) Naphthalene	14.08	128	2321	0.283	ug/L	97

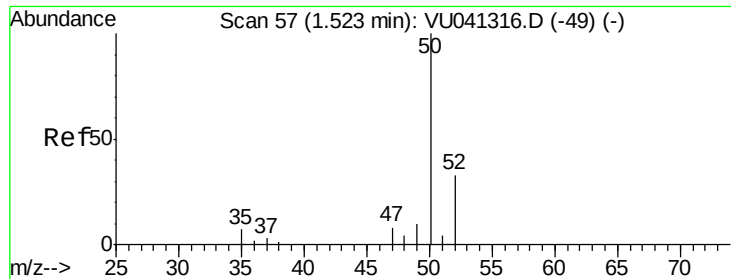
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.052 ug/L

RT: 1.52 min Scan# 55

Delta R.T. -0.01 min

Lab File: VU041322.D

Acq: 18 Nov 2020 19:25

Instrument :

MSVOA_U

ClientSampled :

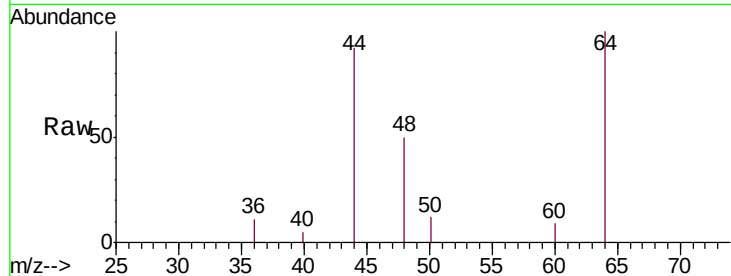
H4391

Tgt Ion: 50 Resp: 280

Ion Ratio Lower Upper

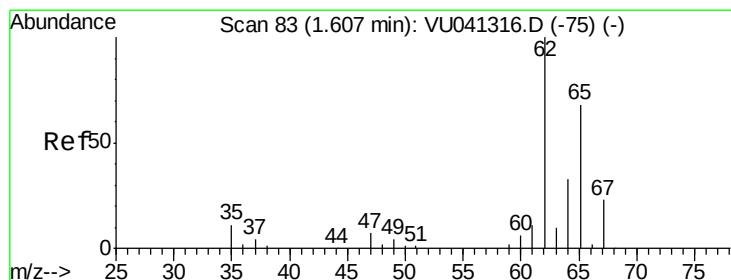
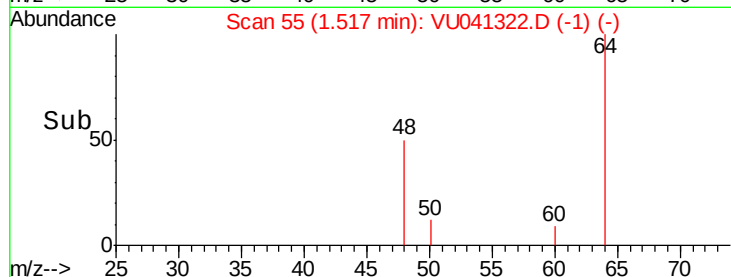
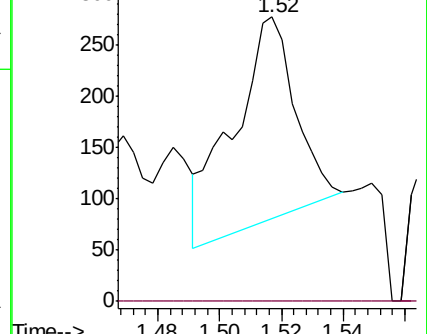
50 100

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



#5

Vinyl chloride

Concen: 4.745 ug/L

RT: 1.60 min Scan# 81

Delta R.T. -0.01 min

Lab File: VU041322.D

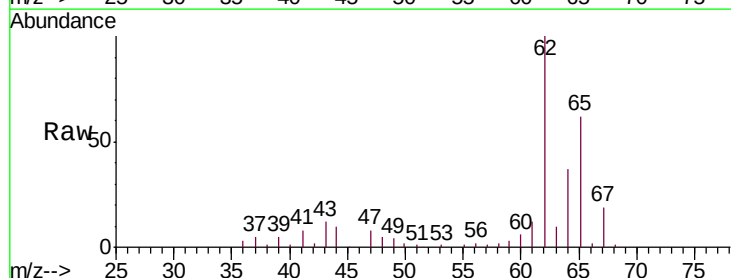
Acq: 18 Nov 2020 19:25

Tgt Ion: 62 Resp: 24959

Ion Ratio Lower Upper

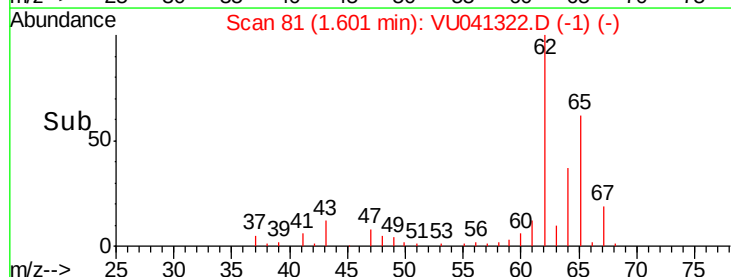
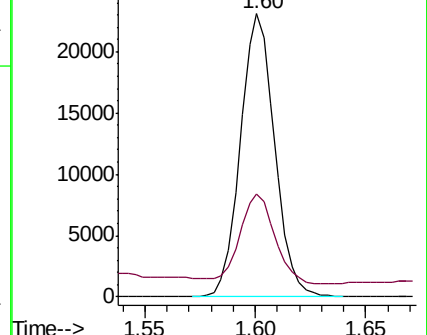
62 100

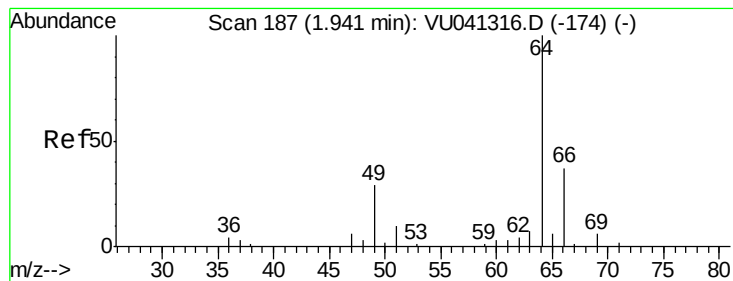
64 36.6 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0





#8

Chloroethane

Concen: 0.551 ug/L

RT: 1.93 min Scan# 184

Delta R.T. -0.01 min

Lab File: VU041322.D

Acq: 18 Nov 2020 19:25

Instrument :

MSVOA_U

ClientSampleId :

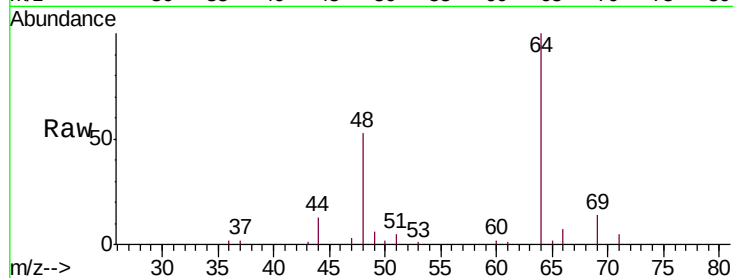
H4391

Tgt Ion: 64 Resp: 1923

Ion Ratio Lower Upper

64 100

66 7.3 22.3 41.5#

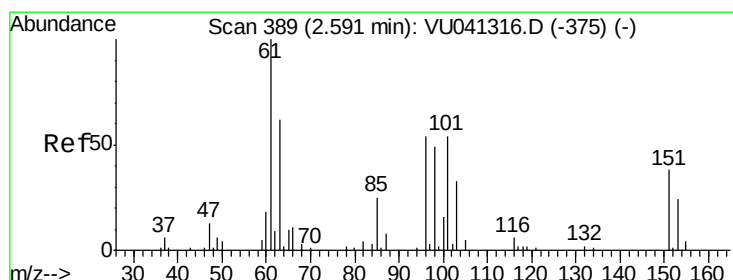
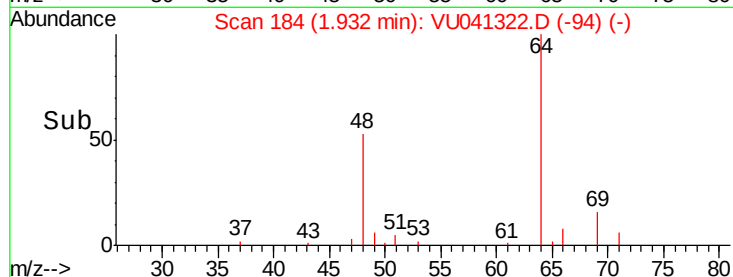


Abundance Ion 64.10 (63.80 to 64.80): VU041316.D (-174) (-)

Ion 66.05 (65.75 to 66.75): VU041316.D (-174) (-)

1.93

Time-->



#10

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

Concen: 0.051 ug/L

RT: 2.57 min Scan# 382

Delta R.T. -0.02 min

Lab File: VU041322.D

Acq: 18 Nov 2020 19:25

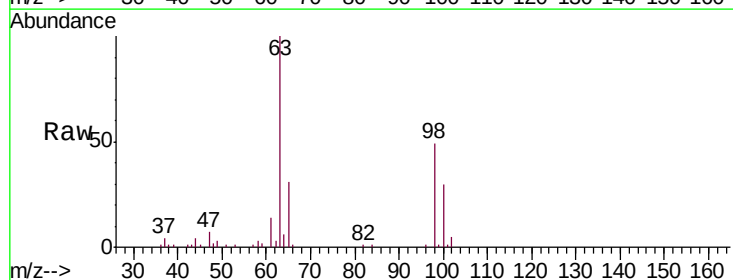
Tgt Ion: 101 Resp: 227

Ion Ratio Lower Upper

101 100

85 0.0 35.0 52.4#

151 0.0 55.3 82.9#



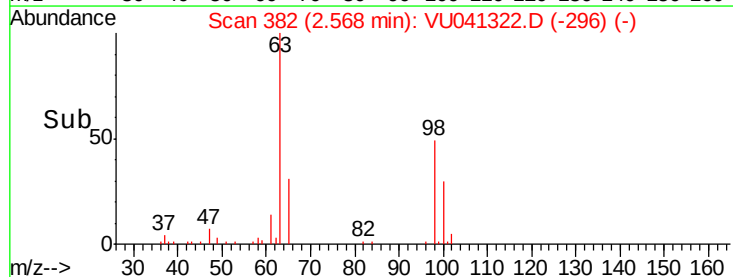
Abundance Ion 101.00 (100.70 to 101.70): VU041316.D (-375) (-)

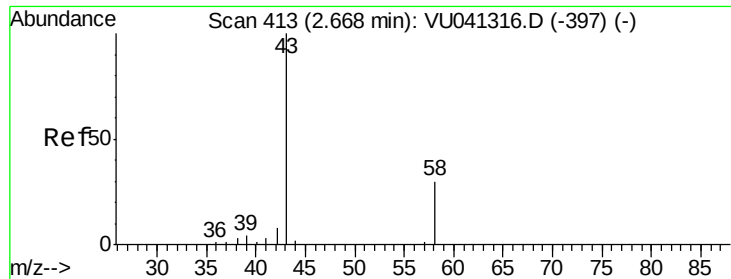
Ion 85.00 (84.70 to 85.70): VU041316.D (-375) (-)

Ion 151.00 (150.70 to 151.70): VU041316.D (-375) (-)

2.57

Time-->





#13

Acetone

Concen: 4.468 ug/L

RT: 2.80 min Scan# 453

Delta R.T. 0.13 min

Lab File: VU041322.D

Acq: 18 Nov 2020 19:25

Instrument :

MSVOA_U

ClientSampleId :

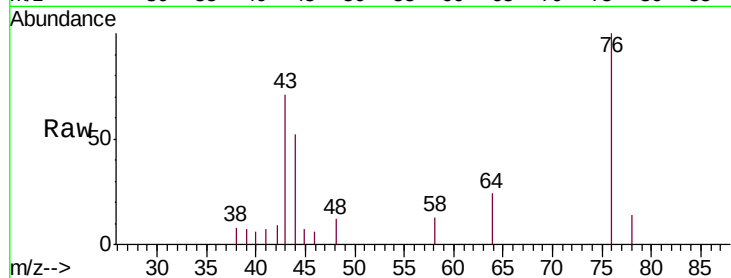
H4391

Tgt Ion: 43 Resp: 5447

Ion Ratio Lower Upper

43 100

58 5.2 0.0 25.4



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

1500

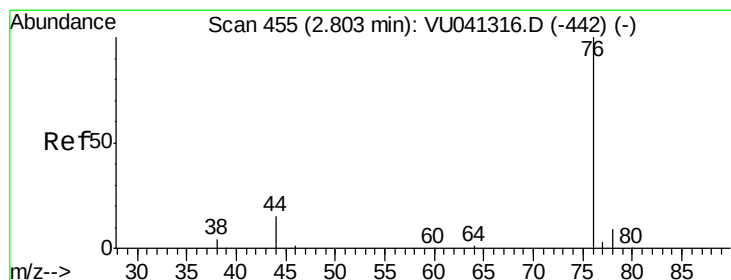
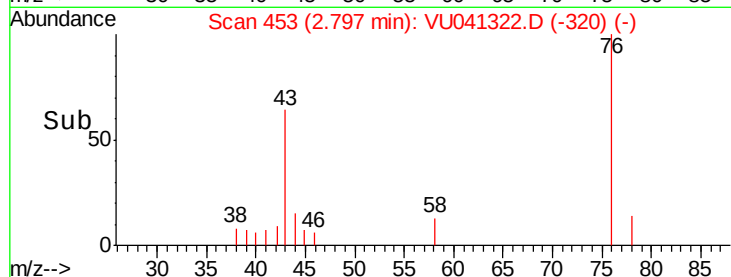
1000

500

0

Time-->

2.70 2.80 2.90



#14

Carbon disulfide

Concen: 0.293 ug/L

RT: 2.79 min Scan# 451

Delta R.T. -0.01 min

Lab File: VU041322.D

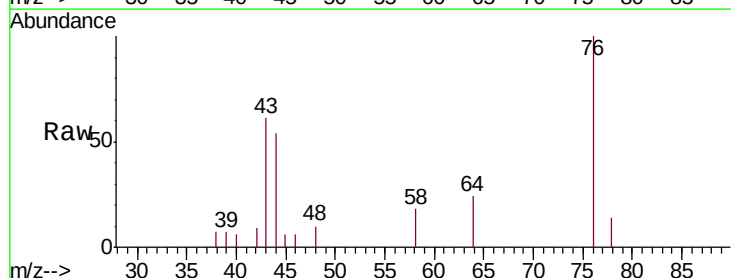
Acq: 18 Nov 2020 19:25

Tgt Ion: 76 Resp: 3398

Ion Ratio Lower Upper

76 100

78 13.6 7.5 11.3#



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0

2000

1500

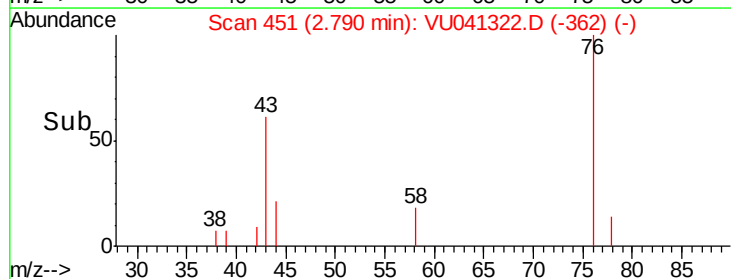
1000

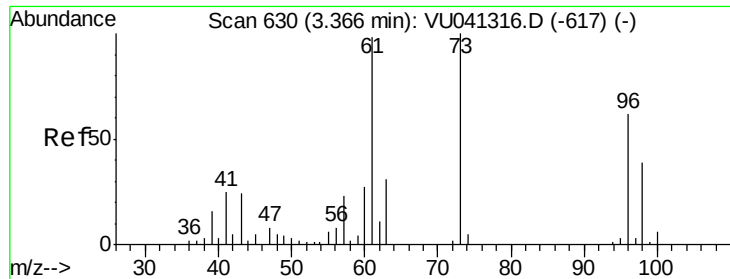
500

0

Time-->

2.75 2.80

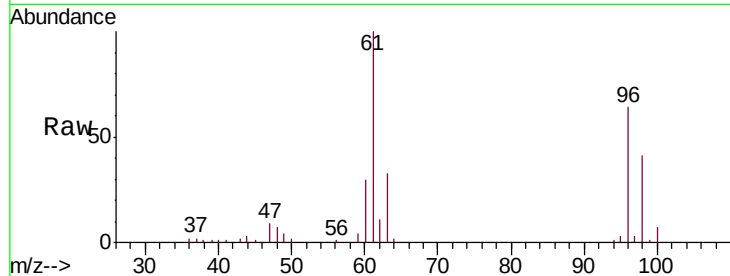




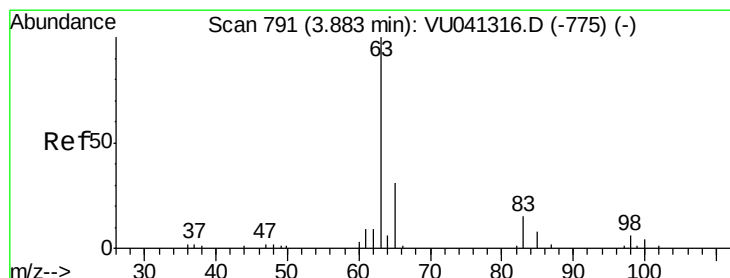
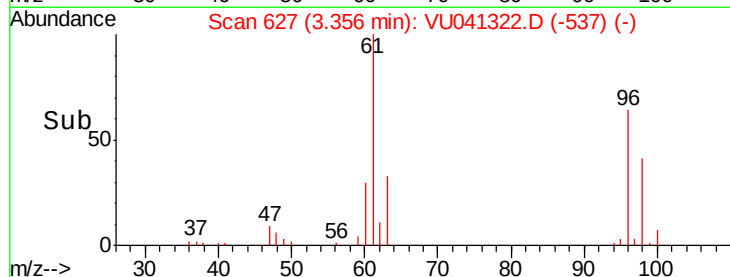
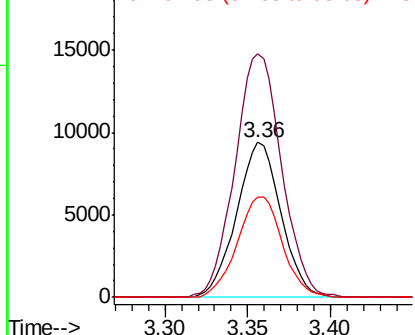
#18
 trans-1,2-Dichloroethene
 Concen: 4.548 ug/L
 RT: 3.36 min Scan# 627
 Delta R.T. -0.01 min
 Lab File: VU041322.D
 Acq: 18 Nov 2020 19:25

Instrument :
 MSVOA_U
 ClientSampleId :
 H4391

Tgt Ion: 96 Resp: 17472
 Ion Ratio Lower Upper
 96 100
 61 156.9 110.9 205.9
 98 64.9 45.4 84.2

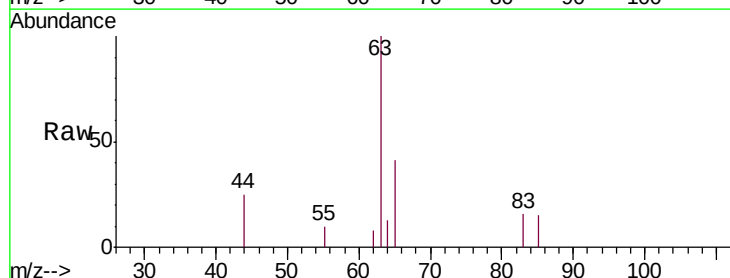


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 97.95 (97.65 to 98.65): VU0

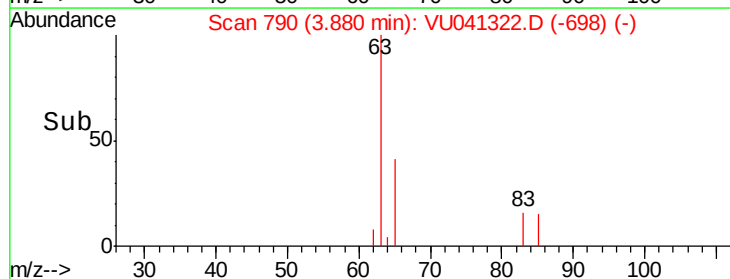
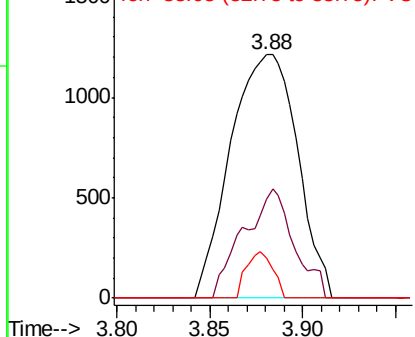


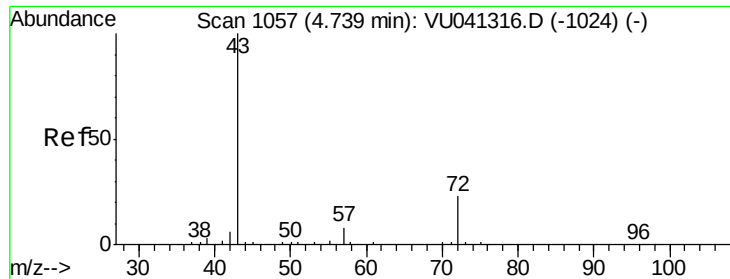
#19
 1,1-Dichloroethane
 Concen: 0.355 ug/L
 RT: 3.88 min Scan# 790
 Delta R.T. -0.00 min
 Lab File: VU041322.D
 Acq: 18 Nov 2020 19:25

Tgt Ion: 63 Resp: 3049
 Ion Ratio Lower Upper
 63 100
 65 40.9 21.3 39.6#
 83 16.3 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

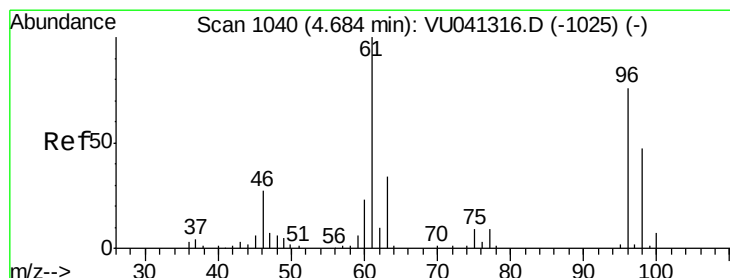
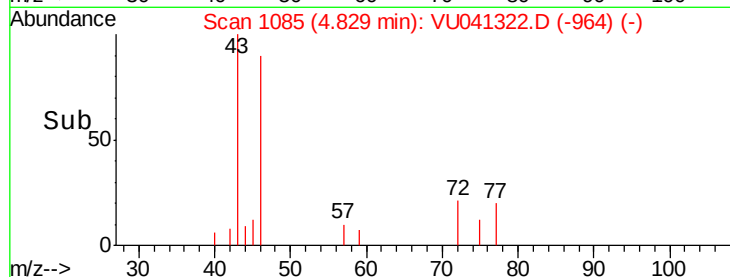
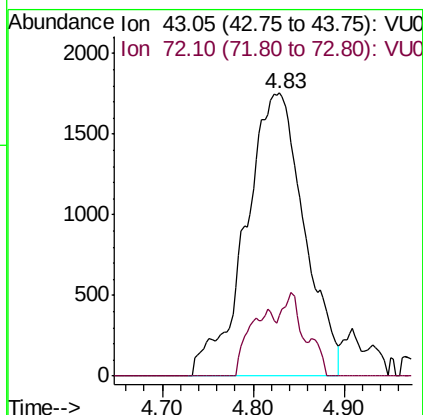
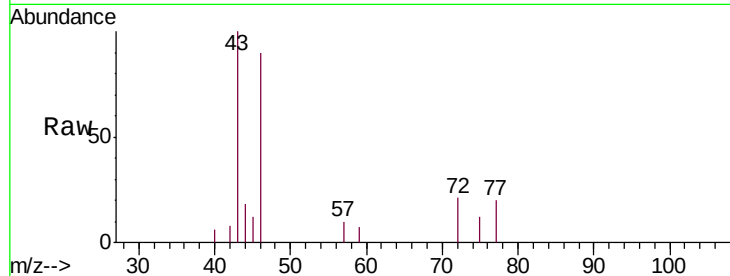




#21
2-Butanone
Concen: 4.244 ug/L
RT: 4.83 min Scan# 1085
Delta R.T. 0.09 min
Lab File: VU041322.D
Acq: 18 Nov 2020 19:25

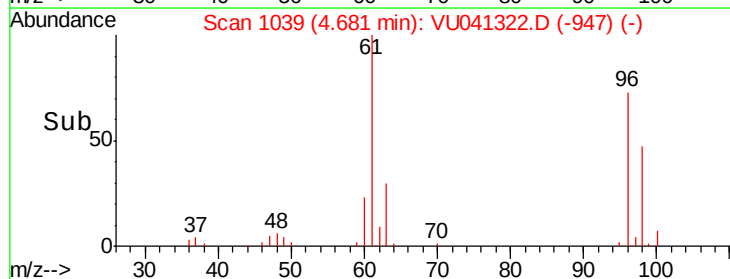
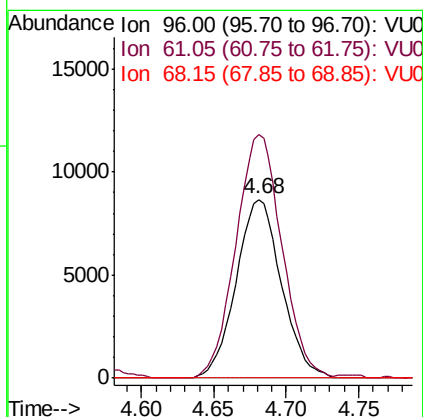
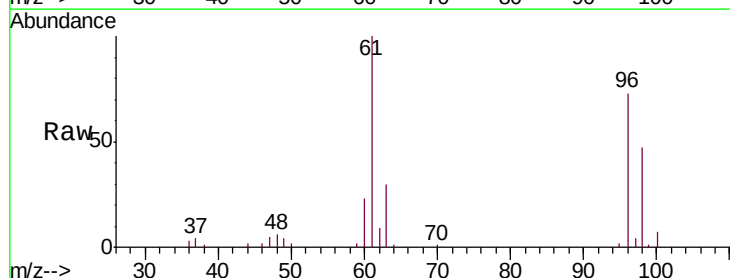
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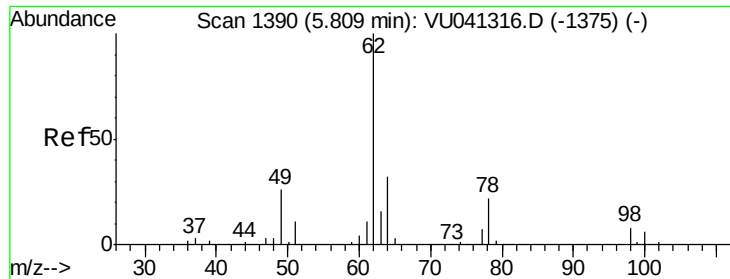
Tgt Ion: 43 Resp: 7855
Ion Ratio Lower Upper
43 100
72 3.3 11.8 35.4#



#22
cis-1,2-Dichloroethene
Concen: 4.340 ug/L
RT: 4.68 min Scan# 1039
Delta R.T. -0.00 min
Lab File: VU041322.D
Acq: 18 Nov 2020 19:25

Tgt Ion: 96 Resp: 18830
Ion Ratio Lower Upper
96 100
61 136.2 97.2 180.4
68 0.0 0.0 0.0

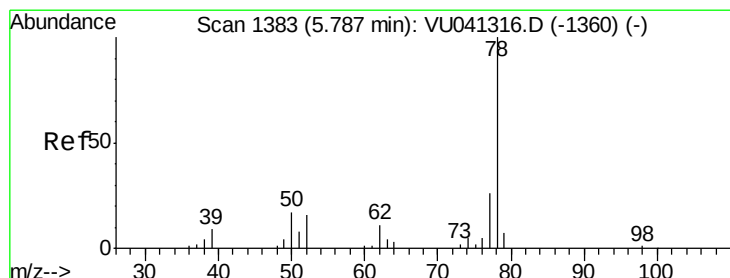
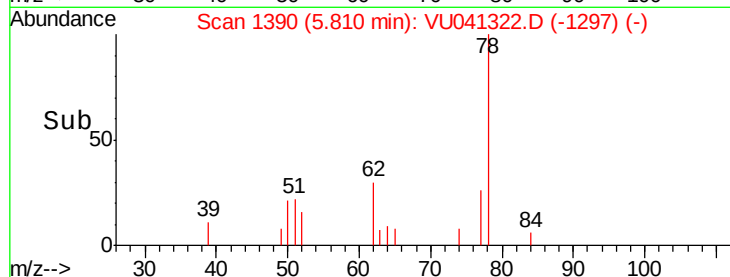
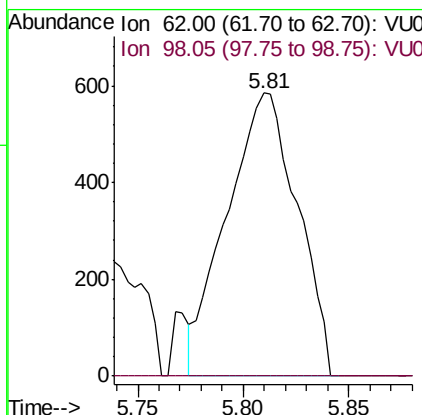
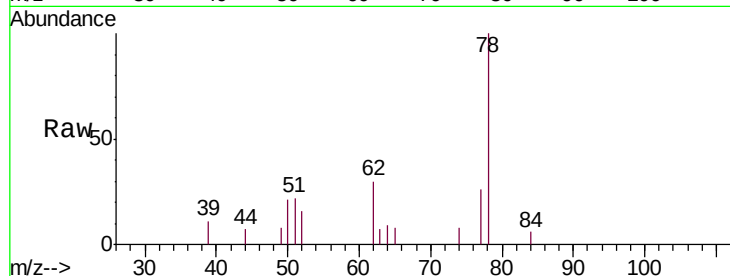




#27
 1,2-Dichloroethane
 Concen: 0.203 ug/L
 RT: 5.81 min Scan# 1390
 Delta R.T. 0.00 min
 Lab File: VU041322.D
 Acq: 18 Nov 2020 19:25

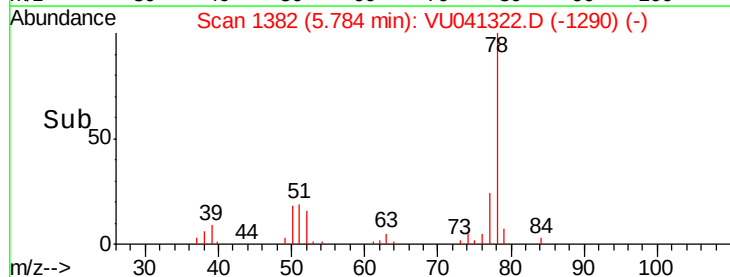
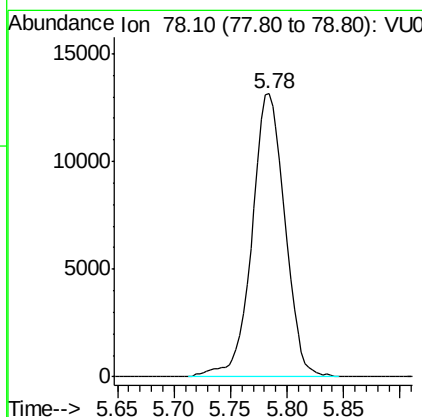
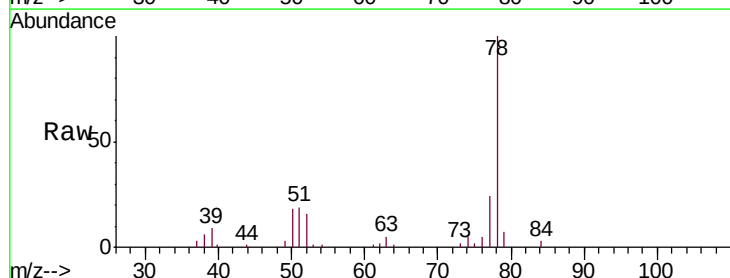
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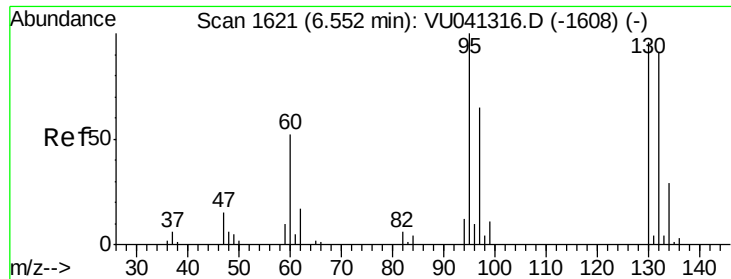
Tgt Ion: 62 Resp: 1362
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.6 11.4#



#33
 Benzene
 Concen: 1.553 ug/L
 RT: 5.78 min Scan# 1382
 Delta R.T. -0.00 min
 Lab File: VU041322.D
 Acq: 18 Nov 2020 19:25

Tgt Ion: 78 Resp: 26594

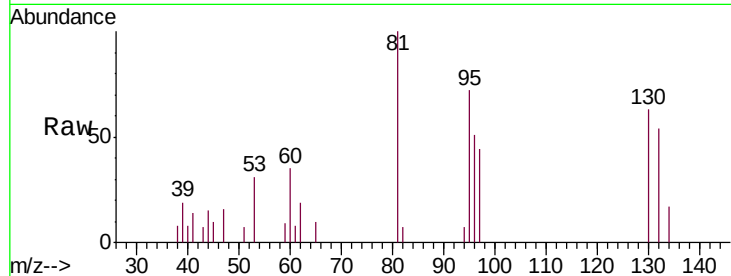




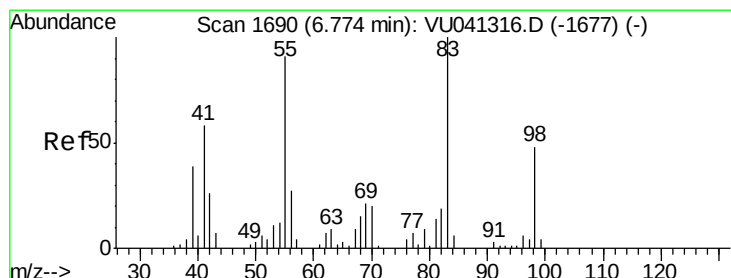
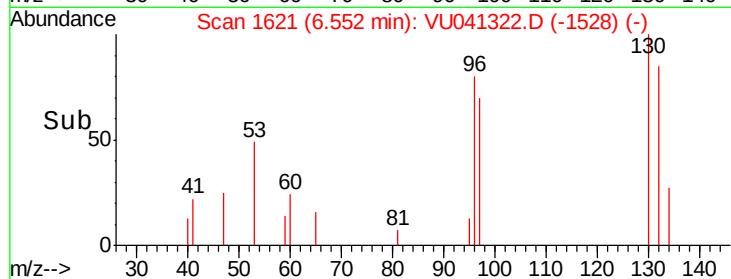
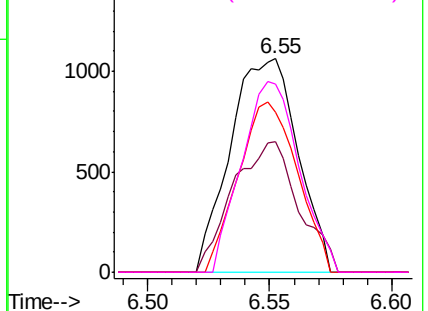
#34
 Trichloroethene
 Concen: 0.441 ug/L
 RT: 6.55 min Scan# 1621
 Delta R.T. 0.00 min
 Lab File: VU041322.D
 Acq: 18 Nov 2020 19:25

Instrument :
 MSVOA_U
 ClientSampled :
 H4391

Tgt Ion: 95 Resp: 2039
 Ion Ratio Lower Upper
 95 100
 97 61.2 45.6 84.6
 132 74.7 64.8 120.4
 130 88.0 64.8 120.4

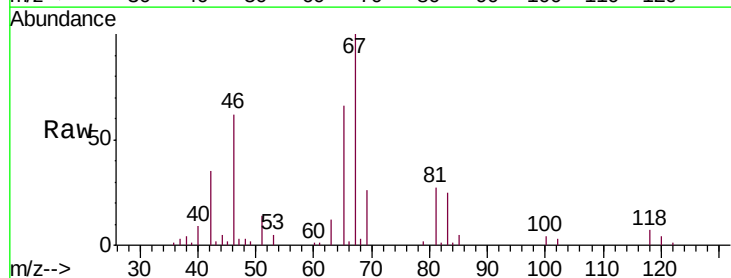


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

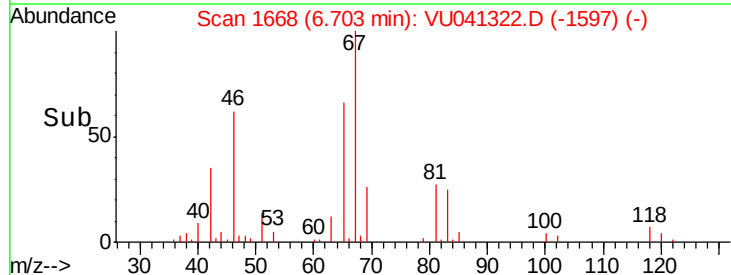
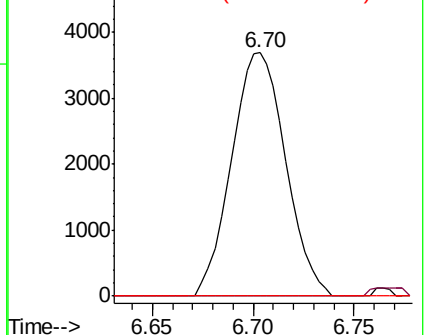


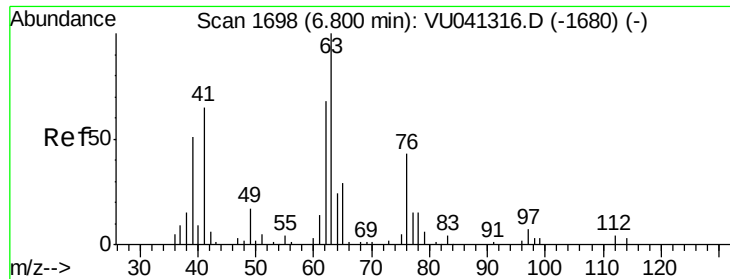
#35
 Methylcyclohexane
 Concen: 1.121 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.07 min
 Lab File: VU041322.D
 Acq: 18 Nov 2020 19:25

Tgt Ion: 83 Resp: 6890
 Ion Ratio Lower Upper
 83 100
 55 2.0 72.0 108.0#
 98 0.0 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

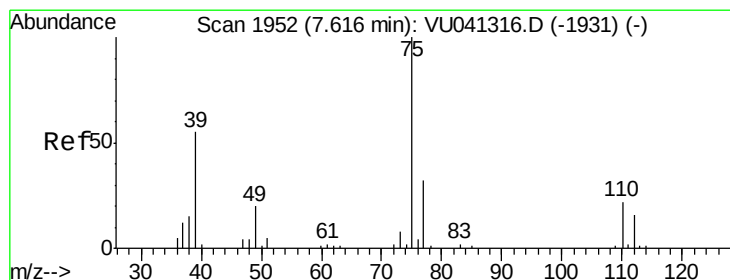
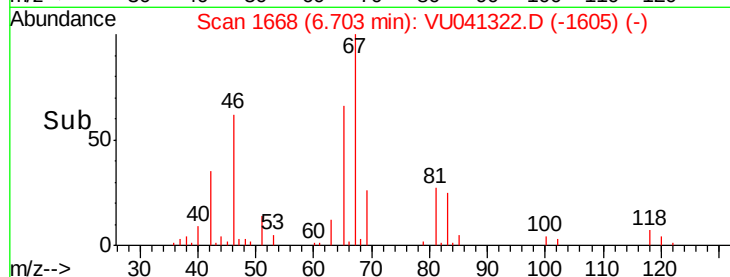
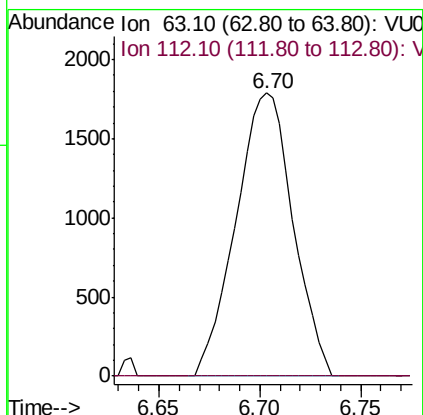
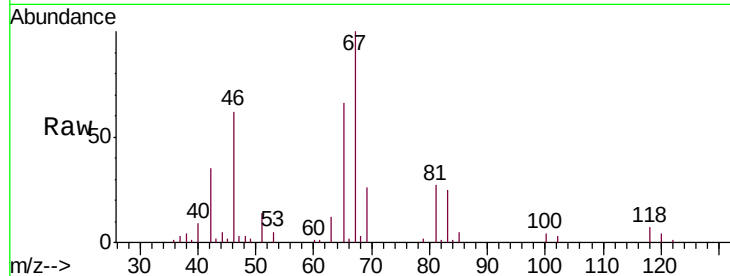




#37
 1,2-Dichloropropane
 Concen: 0.705 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.10 min
 Lab File: VU041322.D
 Acq: 18 Nov 2020 19:25

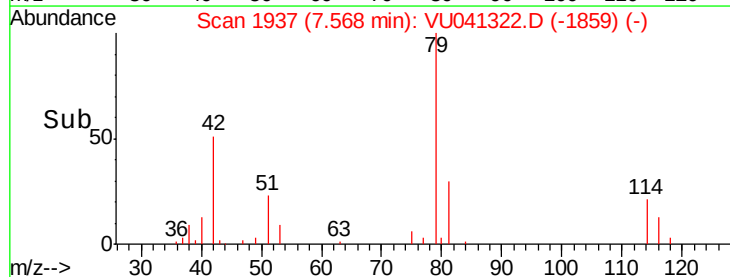
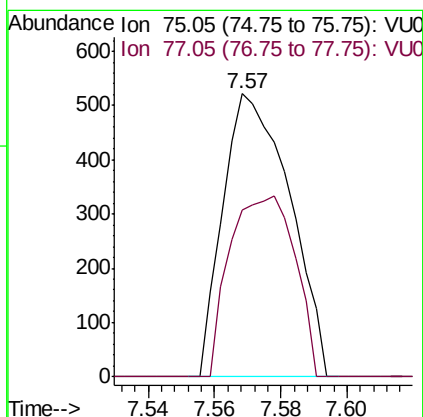
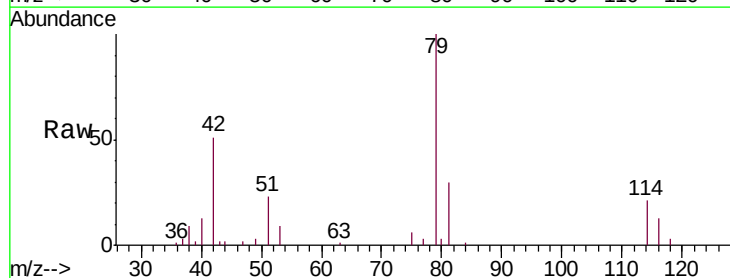
Instrument :
 MSVOA_U
 ClientSampleId :
 H4391

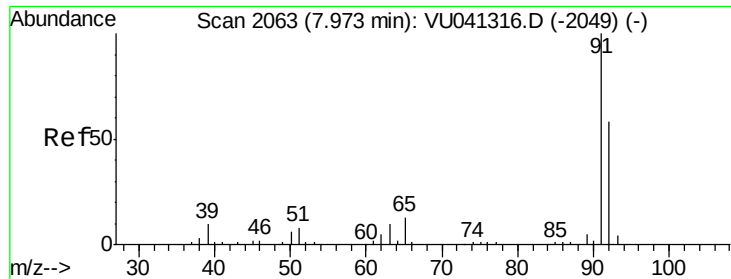
Tgt Ion: 63 Resp: 3528
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.6 5.4#



#39
 cis-1,3-Dichloropropene
 Concen: 0.104 ug/L
 RT: 7.57 min Scan# 1937
 Delta R.T. -0.05 min
 Lab File: VU041322.D
 Acq: 18 Nov 2020 19:25

Tgt Ion: 75 Resp: 728
 Ion Ratio Lower Upper
 75 100
 77 59.0 22.7 42.3#





#42

Toluene

Concen: 2.950 ug/L

RT: 7.97 min Scan# 2063

Delta R.T. 0.00 min

Lab File: VU041322.D

Acq: 18 Nov 2020 19:25

Instrument :

MSVOA_U

ClientSampled :

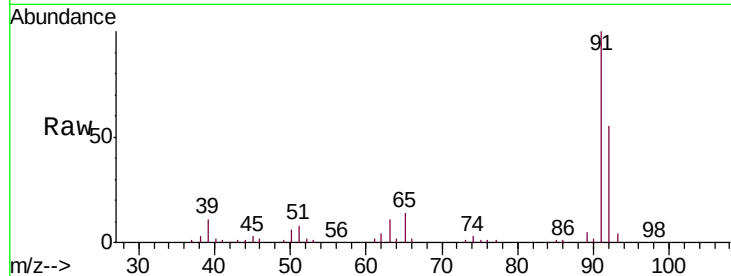
H4391

Tgt Ion: 91 Resp: 53994

Ion Ratio Lower Upper

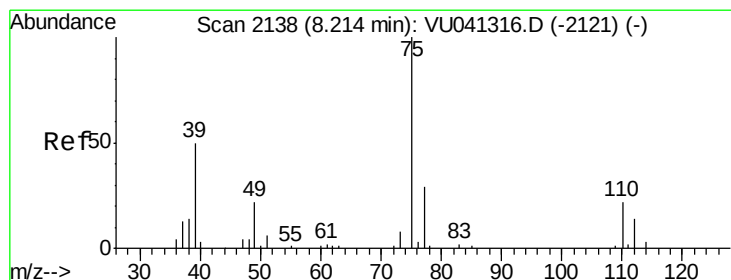
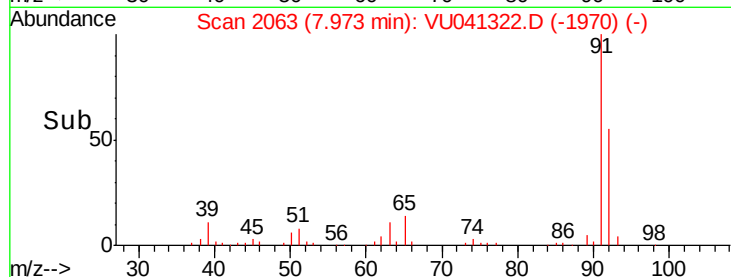
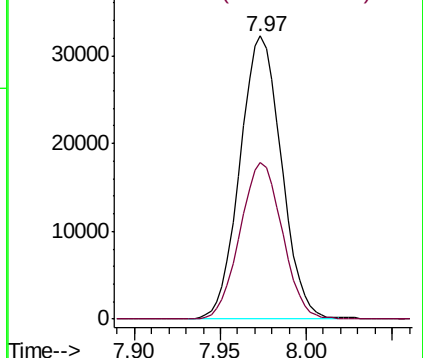
91 100

92 55.1 40.6 75.4



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 0.077 ug/L

RT: 8.19 min Scan# 2130

Delta R.T. -0.03 min

Lab File: VU041322.D

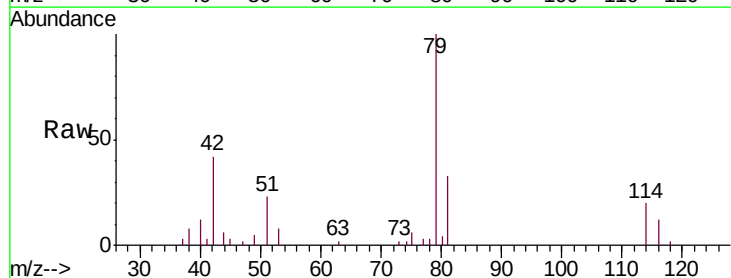
Acq: 18 Nov 2020 19:25

Tgt Ion: 75 Resp: 509

Ion Ratio Lower Upper

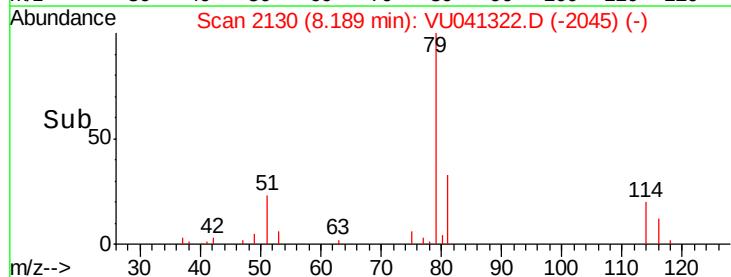
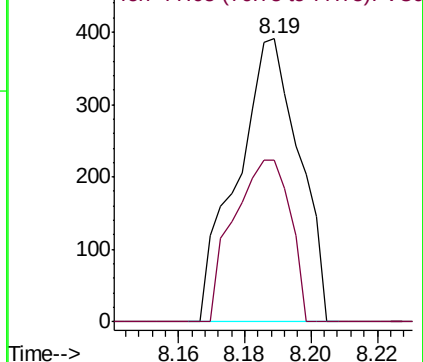
75 100

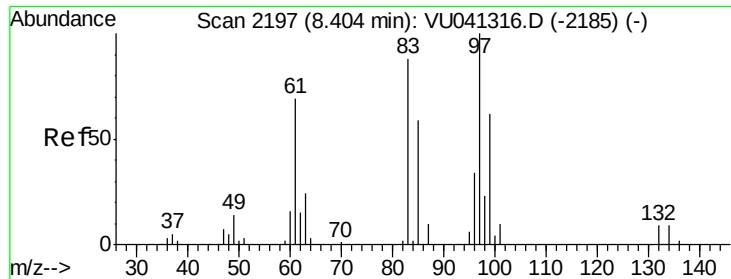
77 57.3 23.3 43.3#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

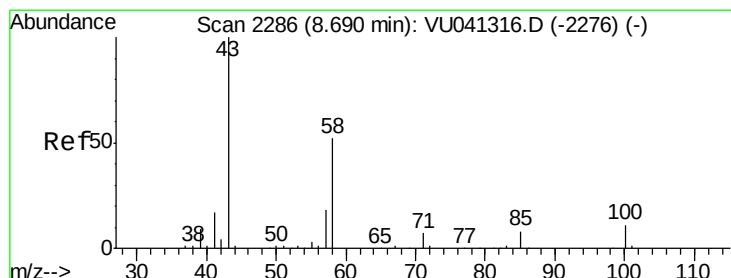
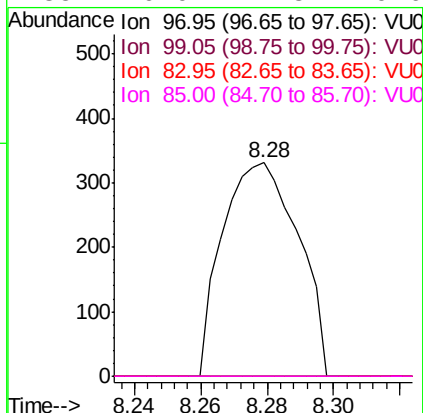
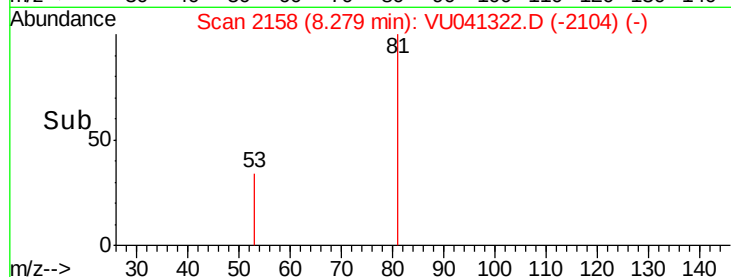
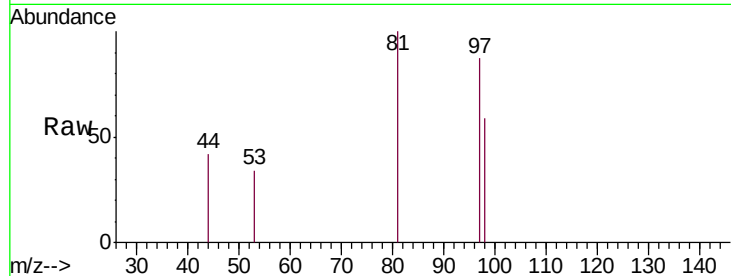




#45
 1,1,2-Trichloroethane
 Concen: 0.136 ug/L
 RT: 8.28 min Scan# 2158
 Delta R.T. -0.13 min
 Lab File: VU041322.D
 Acq: 18 Nov 2020 19:25

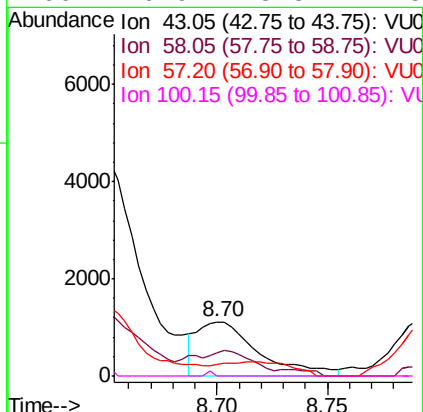
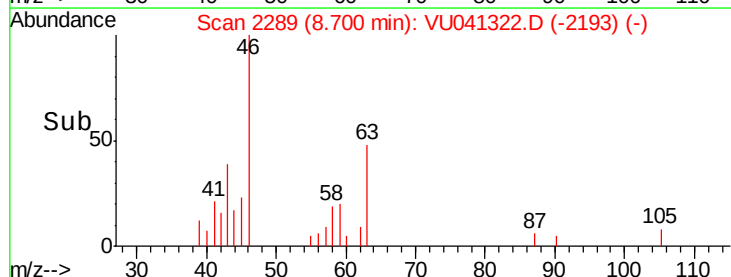
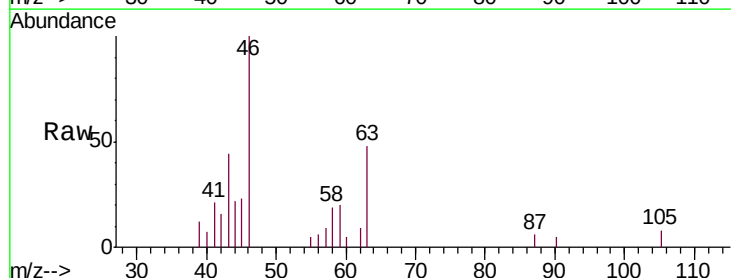
Instrument :
 MSVOA_U
 ClientSampleId :
 H4391

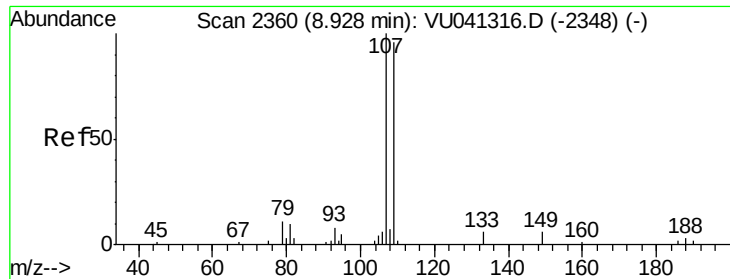
Tgt Ion: 97 Resp: 526
 Ion Ratio Lower Upper
 97 100
 99 0.0 45.8 85.2#
 83 0.0 67.9 126.1#
 85 0.0 42.8 79.6#



#48
 2-Hexanone
 Concen: 0.698 ug/L
 RT: 8.70 min Scan# 2289
 Delta R.T. 0.01 min
 Lab File: VU041322.D
 Acq: 18 Nov 2020 19:25

Tgt Ion: 43 Resp: 2158
 Ion Ratio Lower Upper
 43 100
 58 34.2 41.4 62.2#
 57 29.1 14.6 21.8#
 100 0.9 8.3 12.5#

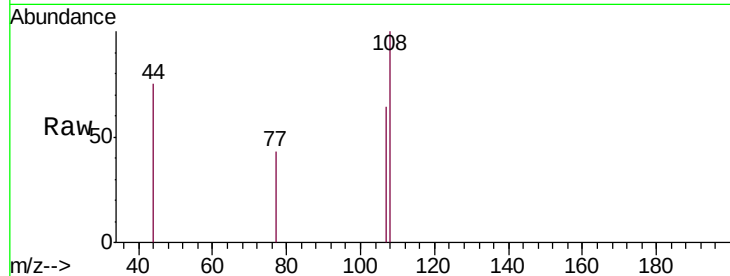




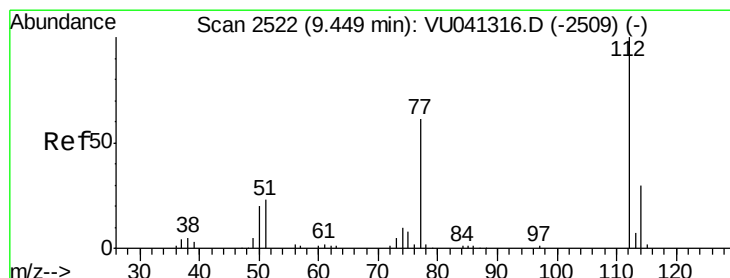
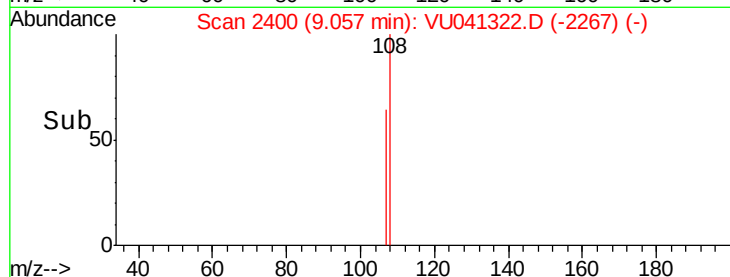
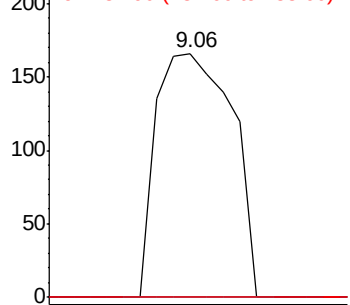
#50
1,2-Dibromoethane
Concen: 0.047 ug/L
RT: 9.06 min Scan# 2400
Delta R.T. 0.13 min
Lab File: VU041322.D
Acq: 18 Nov 2020 19:25

Instrument :
MSVOA_U
ClientSampleId :
H4391

Tgt Ion:107 Resp: 169
Ion Ratio Lower Upper
107 100
109 0.0 65.6 121.8#
188 0.0 2.9 4.3#

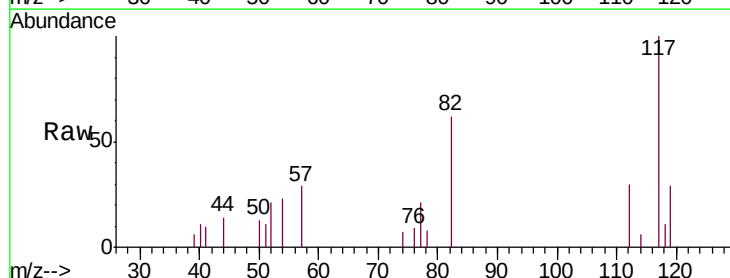


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

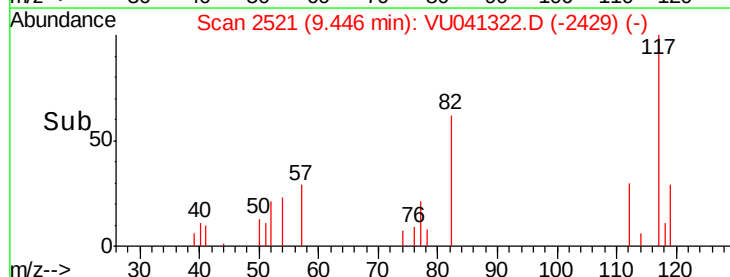
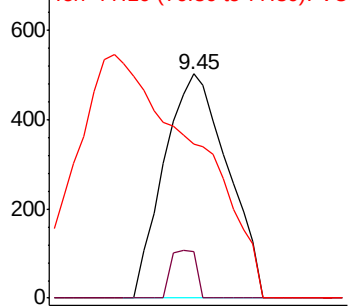


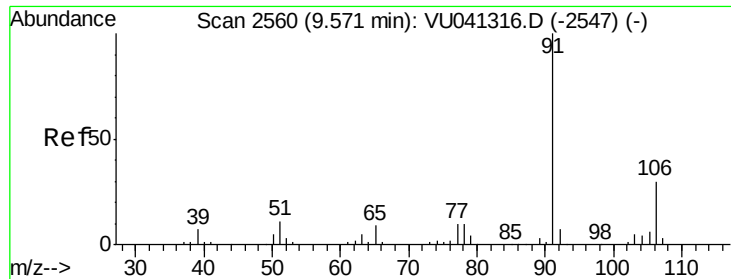
#51
Chlorobenzene
Concen: 0.059 ug/L
RT: 9.45 min Scan# 2521
Delta R.T. -0.00 min
Lab File: VU041322.D
Acq: 18 Nov 2020 19:25

Tgt Ion:112 Resp: 719
Ion Ratio Lower Upper
112 100
114 20.7 22.4 41.6#
77 68.8 51.2 76.8



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 0.598 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. 0.00 min

Lab File: VU041322.D

Acq: 18 Nov 2020 19:25

Instrument :

MSVOA_U

ClientSampleId :

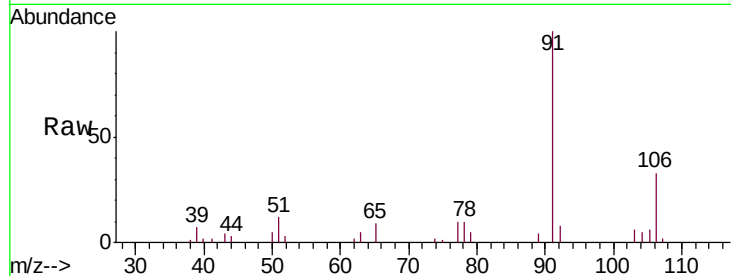
H4391

Tgt Ion: 91 Resp: 11689

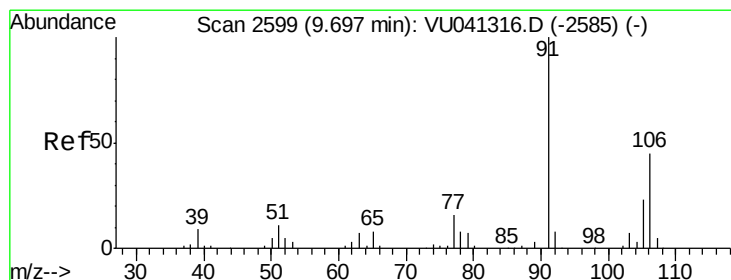
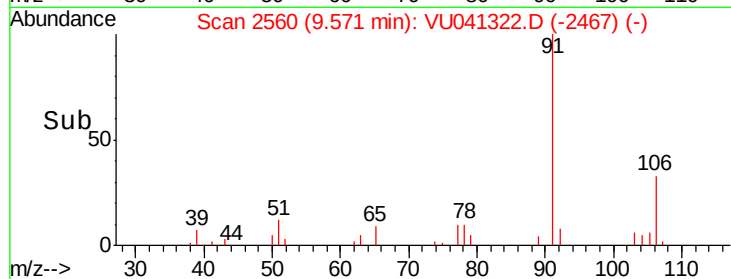
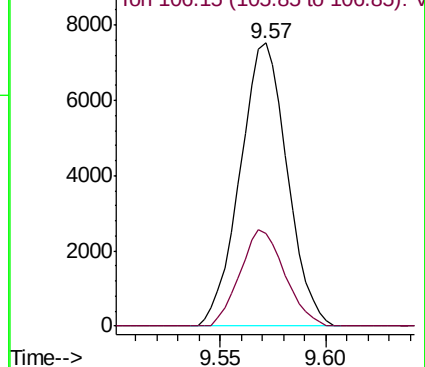
Ion Ratio Lower Upper

91 100

106 32.9 21.0 39.0



Abundance Ion 91.15 (90.85 to 91.85): VU041316.D (-2547) (-)



#53

m,p-Xylene

Concen: 1.443 ug/L

RT: 9.69 min Scan# 2597

Delta R.T. -0.01 min

Lab File: VU041322.D

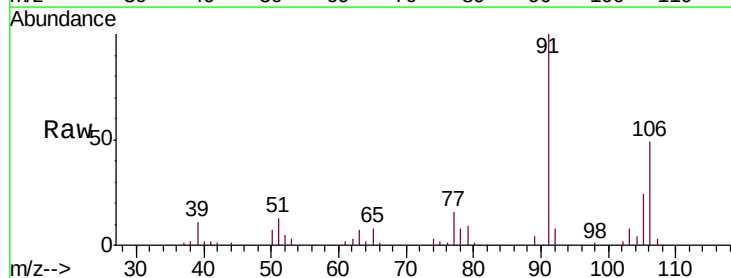
Acq: 18 Nov 2020 19:25

Tgt Ion: 106 Resp: 10195

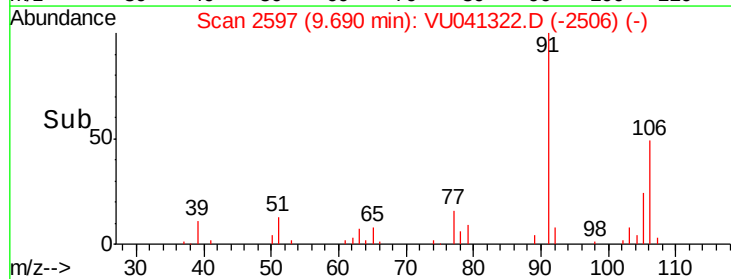
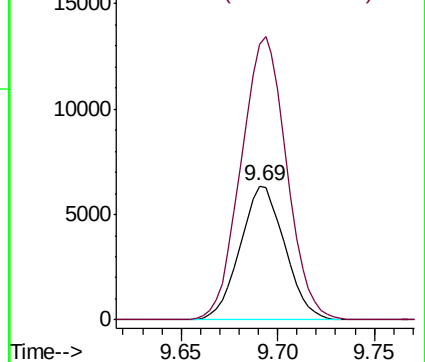
Ion Ratio Lower Upper

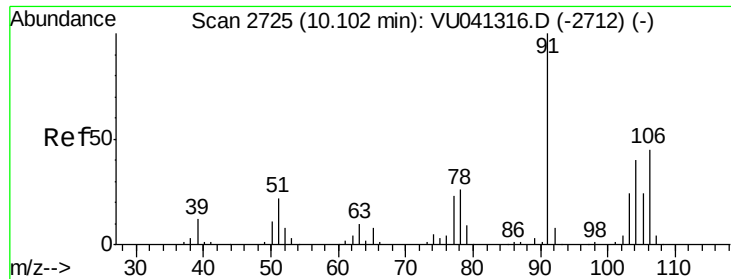
106 100

91 205.6 150.9 280.3



Abundance Ion 106.15 (105.85 to 106.85): VU041316.D (-2585) (-)

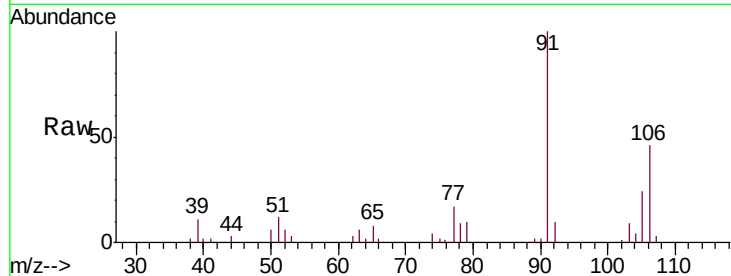




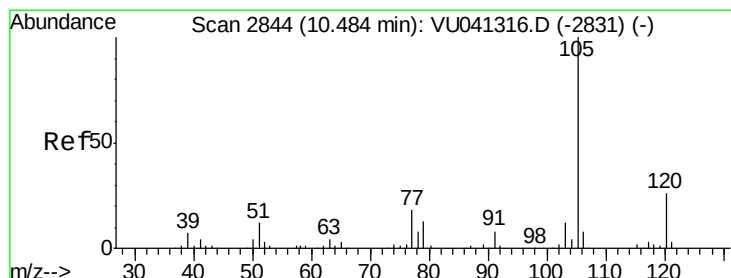
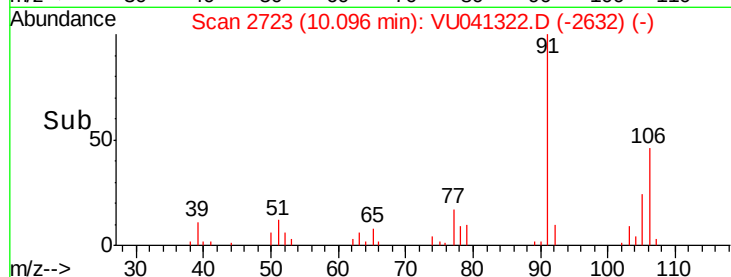
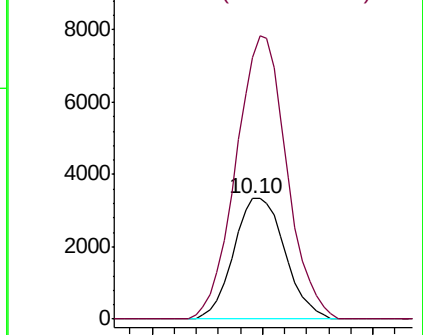
#54
o-Xylene
Concen: 0.797 ug/L
RT: 10.10 min Scan# 2723
Delta R.T. -0.01 min
Lab File: VU041322.D
Acq: 18 Nov 2020 19:25

Instrument :
MSVOA_U
ClientSampleId :
H4391

Tgt Ion:106 Resp: 5425
Ion Ratio Lower Upper
106 100
91 217.3 154.3 286.5

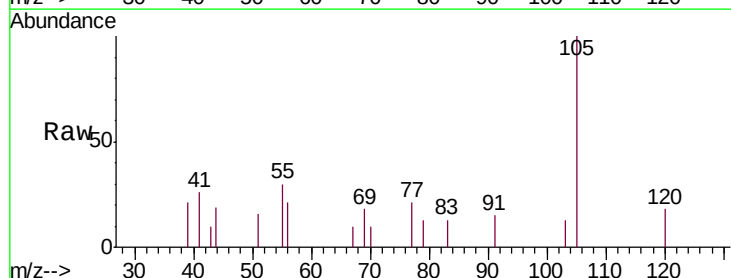


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

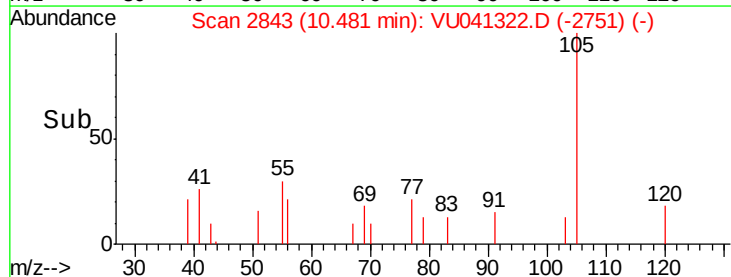
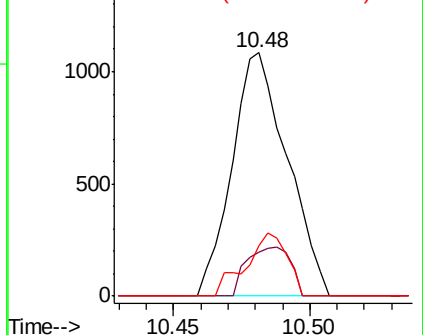


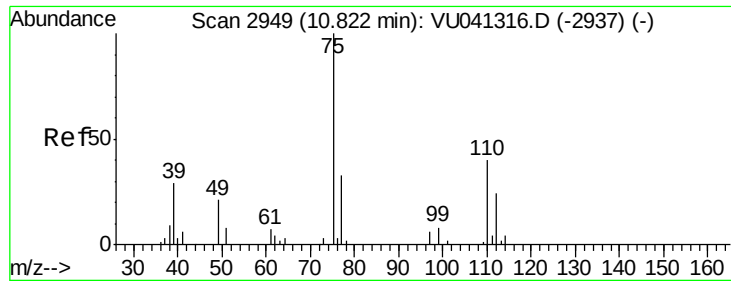
#56
Isopropylbenzene
Concen: 0.085 ug/L
RT: 10.48 min Scan# 2843
Delta R.T. -0.00 min
Lab File: VU041322.D
Acq: 18 Nov 2020 19:25

Tgt Ion:105 Resp: 1526
Ion Ratio Lower Upper
105 100
120 15.8 20.7 31.1#
77 19.3 13.8 20.6



Abundance Ion 105.05 (104.75 to 105.75): V
Ion 120.10 (119.80 to 120.80): V
Ion 77.10 (76.80 to 77.80): VU0

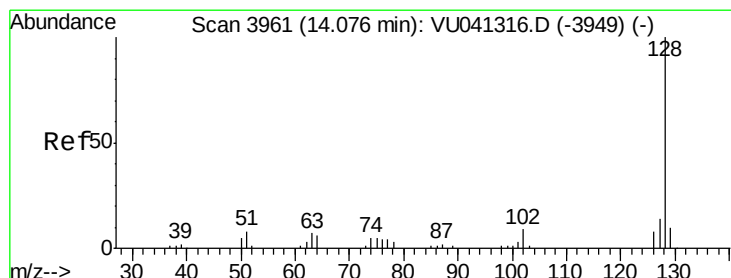
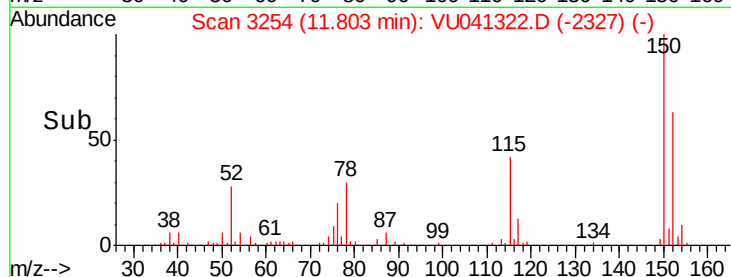
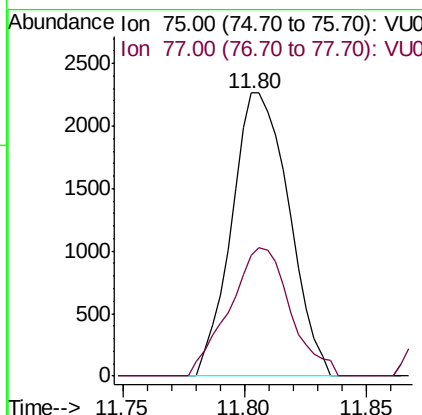
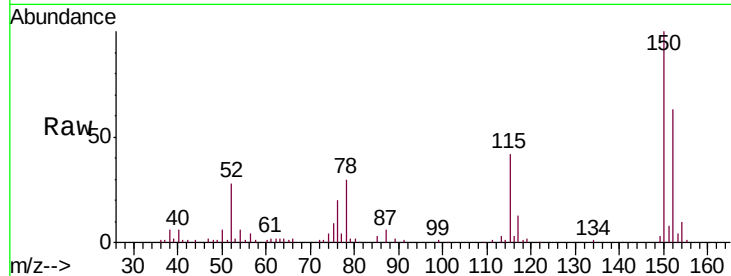




#59
 1,2,3-Trichloropropane
 Concen: 0.934 ug/L
 RT: 11.80 min Scan# 3254
 Delta R.T. 0.98 min
 Lab File: VU041322.D
 Acq: 18 Nov 2020 19:25

Instrument :
 MSVOA_U
 ClientSampled :
 H4391

Tgt Ion: 75 Resp: 3687
 Ion Ratio Lower Upper
 75 100
 77 48.3 25.7 38.5#



#69
 Naphthalene
 Concen: 0.283 ug/L
 RT: 14.08 min Scan# 3961
 Delta R.T. 0.00 min
 Lab File: VU041322.D
 Acq: 18 Nov 2020 19:25

Tgt Ion: 128 Resp: 2321
 Ion Ratio Lower Upper
 128 100
 129 10.9 8.7 13.1
 127 11.7 10.8 16.2

