

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U102020\
 Data File : VU040855.D
 Acq On : 20 Oct 2020 18:20
 Operator : SY/MD
 Sample : L4428-14
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 ETZ48

Quant Time: Oct 20 23:59:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100820WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Oct 20 23:49:45 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	119808	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	124287	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	51656	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	45665	4.60	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	92.00%
7) Chloroethane-d5	1.92	69	37758	4.93	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	98.60%
11) 1,1-Dichloroethene-d2	2.58	63	71151	3.67	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	73.40%
20) 2-Butanone-d5	4.66	46	182011	57.29	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	114.58%
24) Chloroform-d	5.08	84	84686	4.86	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.20%
26) 1,2-Dichloroethane-d4	5.72	65	54199	5.11	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.20%
32) Benzene-d6	5.74	84	158537	4.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.60%
36) 1,2-Dichloropropane-d6	6.70	67	55459	4.98	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.60%
41) Toluene-d8	7.91	98	128590	4.28	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.60%
43) trans-1,3-Dichloropropene-	8.19	79	21436	4.55	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.00%
46) 2-Hexanone-d5	8.64	63	134217	55.25	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	110.50%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	48950	4.90	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.00%
64) 1,2-Dichlorobenzene-d4	12.19	152	51847	5.41	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	108.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.53	50	3233	0.318	ug/L	88
5) Vinyl chloride	1.61	62	472805	44.226	ug/L	98
8) Chloroethane	1.96	64	561	0.082	ug/L #	52
12) 1,1-Dichloroethene	2.59	96	8832	1.033	ug/L #	1
17) Methyl tert-butyl Ether	3.38	73	3196	0.132	ug/L #	84
18) trans-1,2-Dichloroethene	3.37	96	15260	1.705	ug/L	95
19) 1,1-Dichloroethane	3.90	63	809	0.044	ug/L #	89
22) cis-1,2-Dichloroethene	4.69	96	3401577	352.496	ug/L	100
25) Chloroform	5.11	83	2825	0.150	ug/L	99
27) 1,2-Dichloroethane	5.81	62	715	0.053	ug/L #	77
30) Cyclohexane	5.40	56	1595	0.104	ug/L #	76
34) Trichloroethene	6.56	95	2278763	220.164	ug/L	95
35) Methylcyclohexane	6.77	83	2026	0.138	ug/L #	69
37) 1,2-Dichloropropane	6.70	63	6657	0.598	ug/L #	87
39) cis-1,3-Dichloropropene	7.57	75	1497	0.098	ug/L #	58
42) Toluene	7.98	91	1583	0.039	ug/L	88
44) trans-1,3-Dichloropropene	8.19	75	981	0.070	ug/L #	79

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Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 20 23:49:45 2020
Response via : Initial Calibration

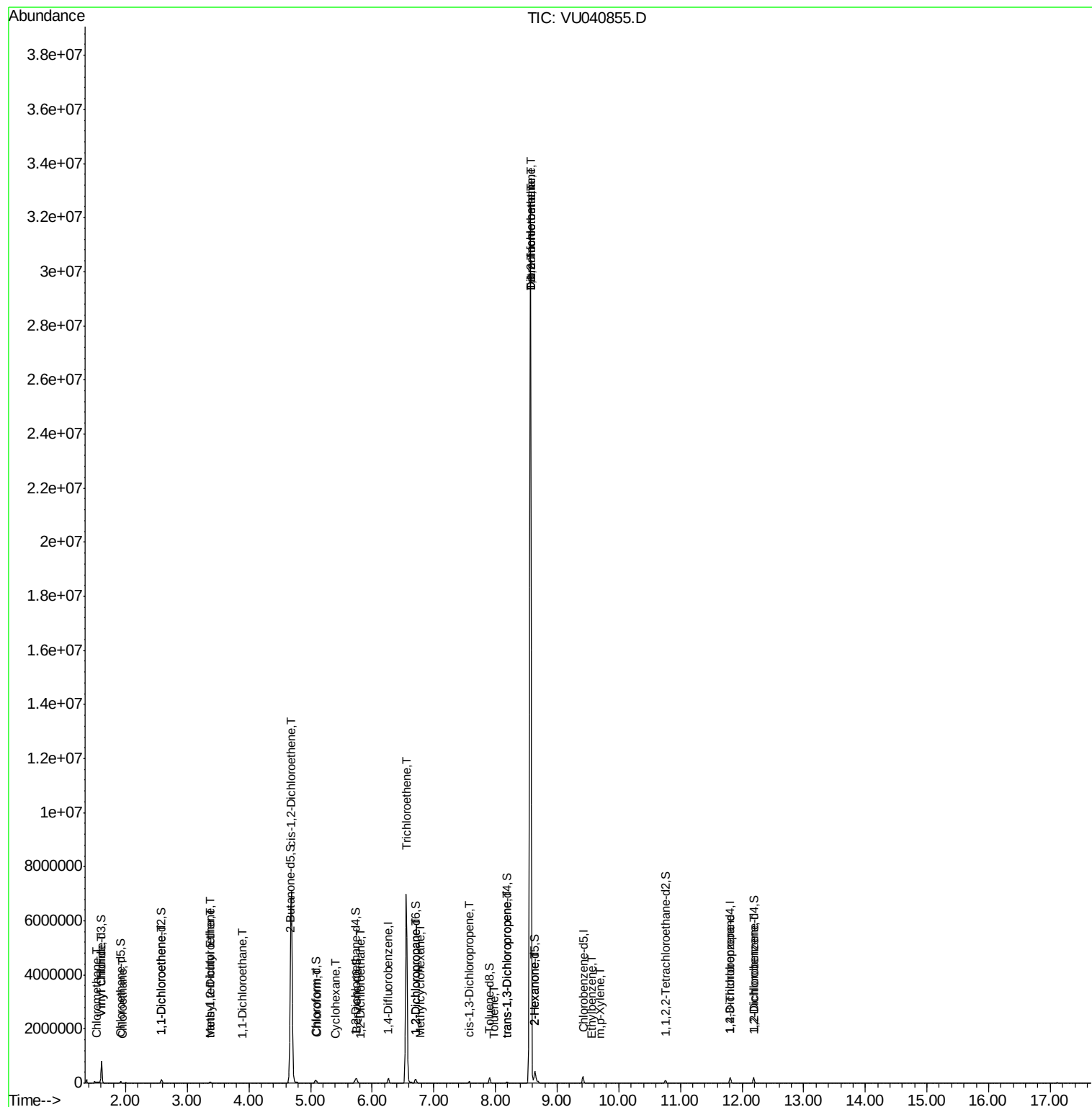
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,1,2-Trichloroethane	8.57	97	71526	8.584	ug/L #	1
47) Tetrachloroethene	8.57	164	6413992	868.587	ug/L	90
48) 2-Hexanone	8.64	43	18063	2.735	ug/L #	69
49) Dibromochloromethane	8.57	129	6808263	710.119	ug/L #	9
52) Ethylbenzene	9.57	91	2085	0.047	ug/L	92
53) m,p-Xylene	9.70	106	1915	0.119	ug/L	98
59) 1,2,3-Trichloropropane	11.81	75	7164	0.877	ug/L	91
65) 1,2-Dichlorobenzene	12.20	146	1101	0.067	ug/L #	84

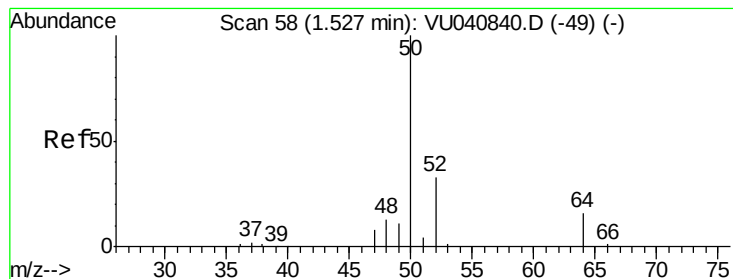
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.318 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU040855.D

Acq: 20 Oct 2020 18:20

Instrument :

MSVOA_U

ClientSampleId :

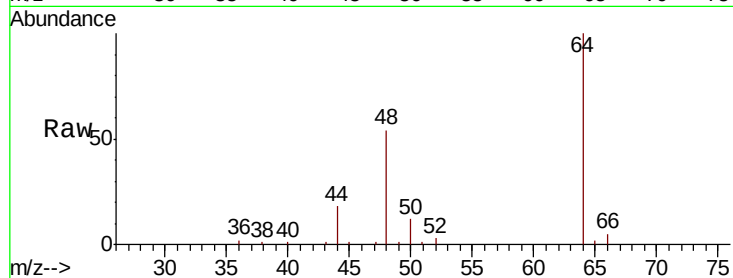
ETZ48

Tot Ion: 50 Resp: 3233

Ion Ratio Lower Upper

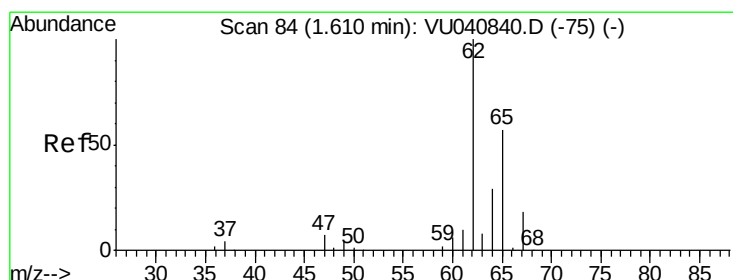
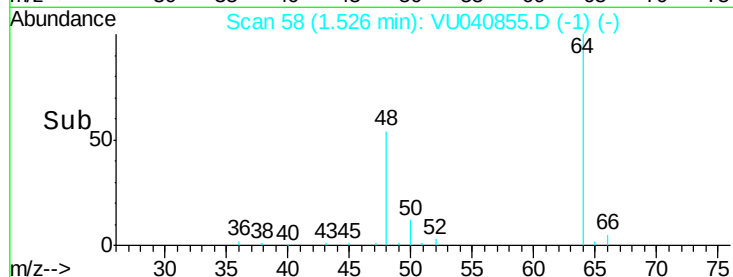
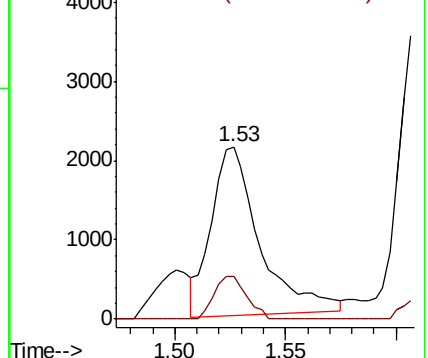
50 100

52 24.6 21.9 40.7



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



#5

Vinyl chloride

Concen: 44.226 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU040855.D

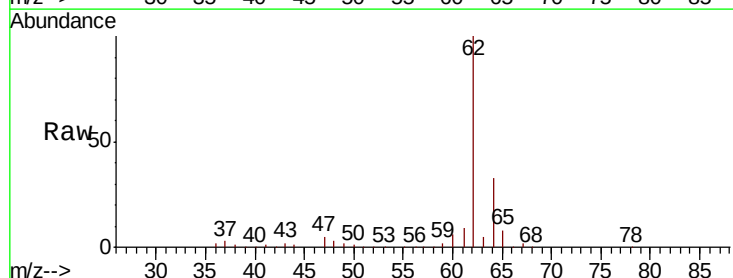
Acq: 20 Oct 2020 18:20

Tgt Ion: 62 Resp: 472805

Ion Ratio Lower Upper

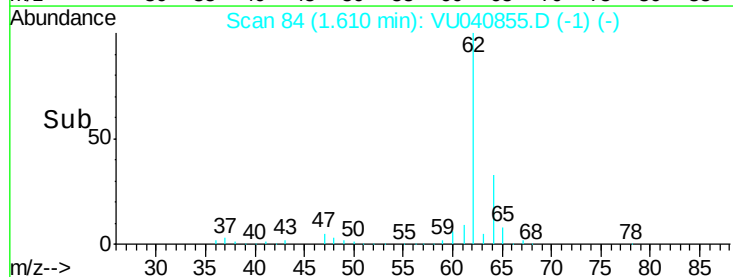
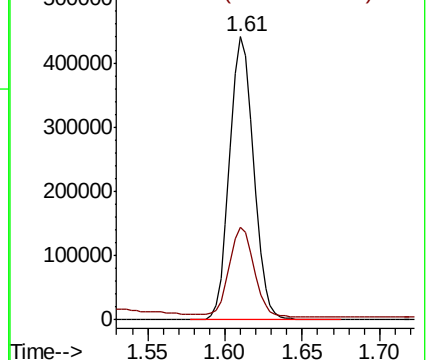
62 100

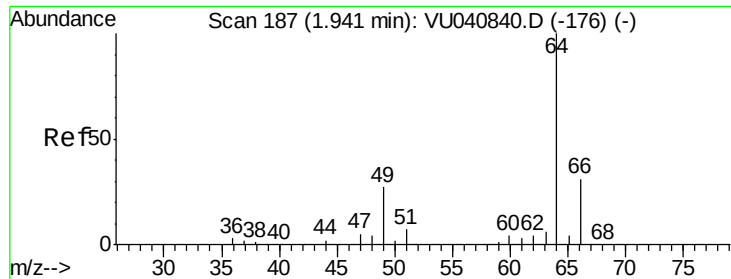
64 32.9 23.7 44.1



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0

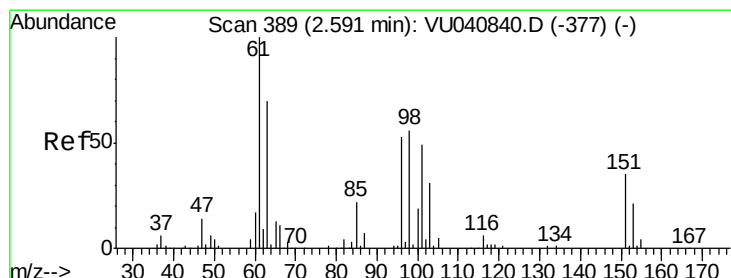
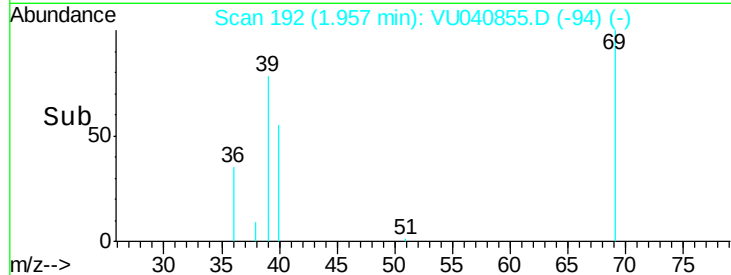
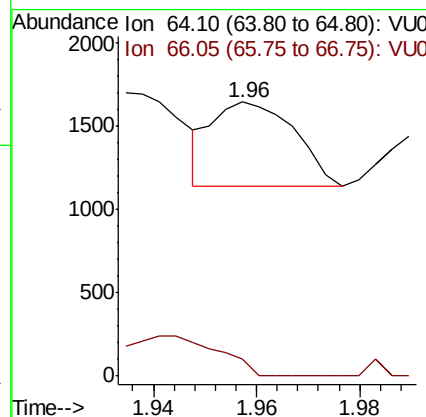
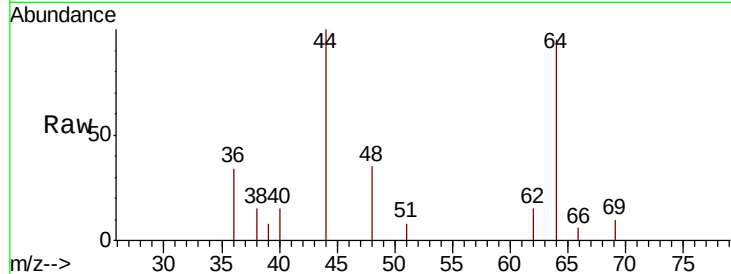




#8
 Chloroethane
 Concen: 0.082 ug/L
 RT: 1.96 min Scan# 192
 Delta R.T. 0.02 min
 Lab File: VU040855.D
 Acq: 20 Oct 2020 18:20

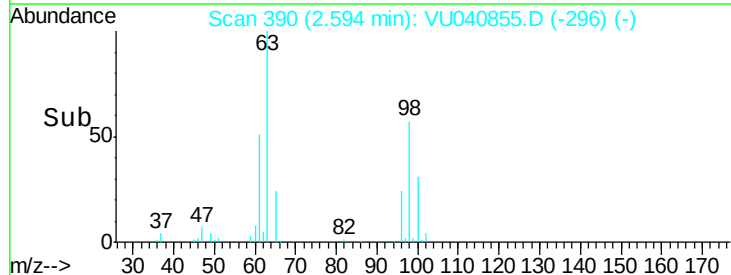
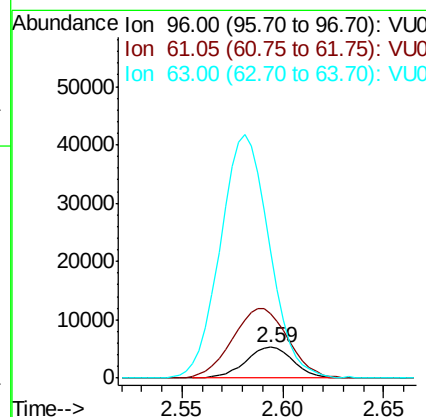
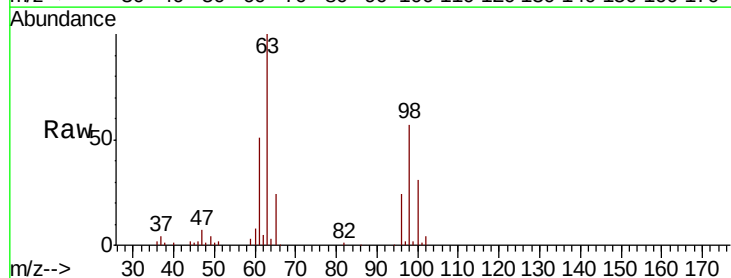
Instrument :
 MSVOA_U
 ClientSampleId :
 ETZ48

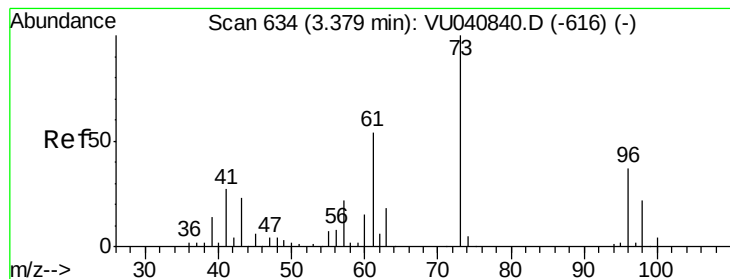
Tot Ion: 64 Resp: 561
 Ion Ratio Lower Upper
 64 100
 66 6.1 23.3 43.3#



#12
 1,1-Dichloroethene
 Concen: 1.033 ug/L
 RT: 2.59 min Scan# 390
 Delta R.T. 0.00 min
 Lab File: VU040855.D
 Acq: 20 Oct 2020 18:20

Tgt Ion: 96 Resp: 8832
 Ion Ratio Lower Upper
 96 100
 61 211.1 128.8 239.2
 63 416.0 84.6 157.2#





#17

Methyl tert-butyl Ether

Concen: 0.132 ug/L

RT: 3.38 min Scan# 635

Delta R.T. 0.00 min

Lab File: VU040855.D

Acq: 20 Oct 2020 18:20

Instrument :

MSVOA_U

ClientSampleId :

ETZ48

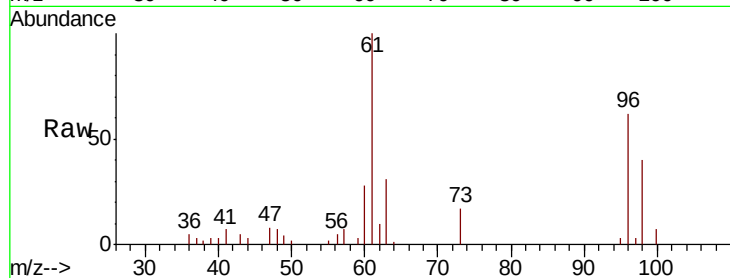
Tot Ion: 73 Resp: 3196

Ion Ratio Lower Upper

73 100

43 24.3 18.2 27.4

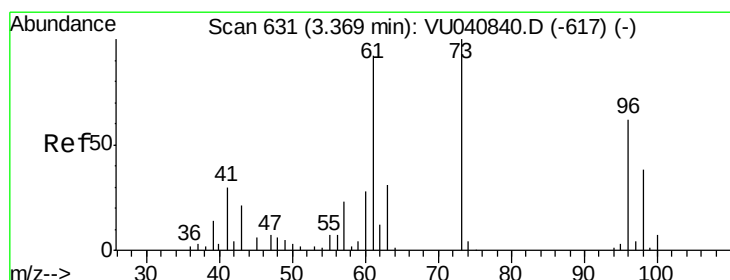
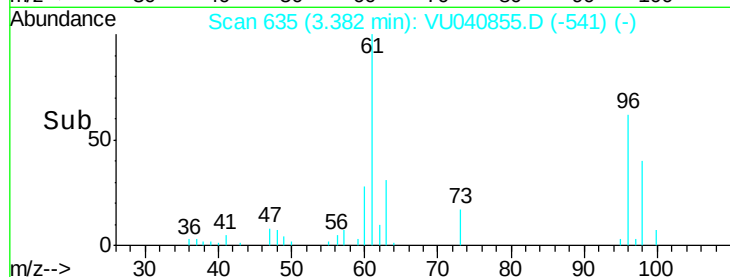
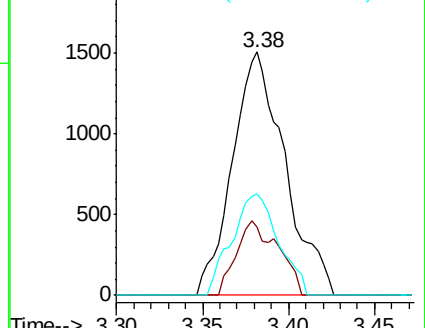
57 37.2 18.6 28.0#



Abundance Ion 73.10 (72.80 to 73.80): VU040840.D (-616) (-)

Ion 43.05 (42.75 to 43.75): VU040840.D (-616) (-)

Ion 57.10 (56.80 to 57.80): VU040840.D (-616) (-)



#18

trans-1,2-Dichloroethene

Concen: 1.705 ug/L

RT: 3.37 min Scan# 632

Delta R.T. 0.00 min

Lab File: VU040855.D

Acq: 20 Oct 2020 18:20

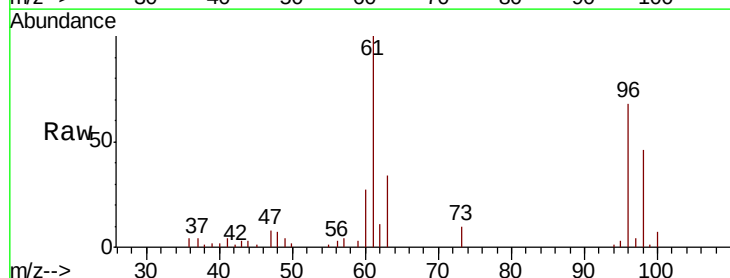
Tgt Ion: 96 Resp: 15260

Ion Ratio Lower Upper

96 100

61 146.0 105.9 196.7

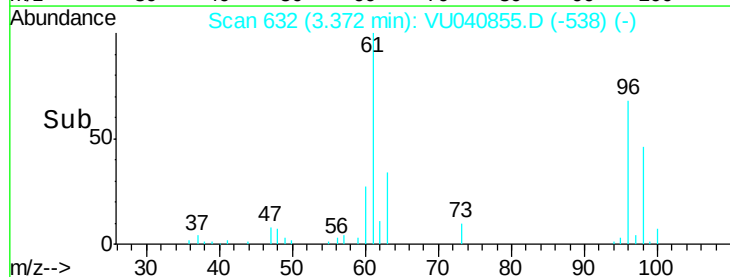
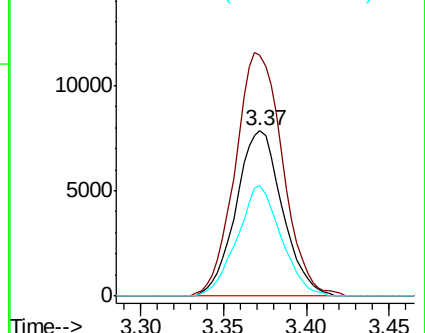
98 66.7 43.8 81.3

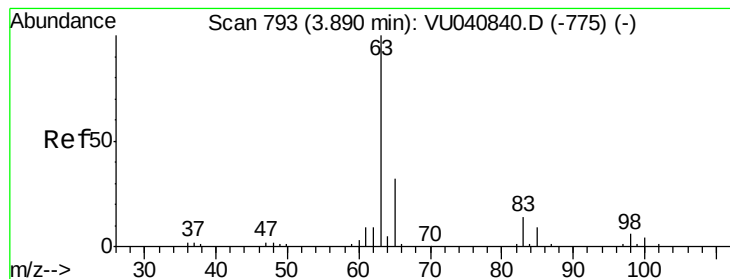


Abundance Ion 96.00 (95.70 to 96.70): VU040840.D (-617) (-)

Ion 61.05 (60.75 to 61.75): VU040840.D (-617) (-)

Ion 97.95 (97.65 to 98.65): VU040840.D (-617) (-)





#19

1,1-Dichloroethane

Concen: 0.044 ug/L

RT: 3.90 min Scan# 795

Delta R.T. 0.01 min

Lab File: VU040855.D

Acq: 20 Oct 2020 18:20

Instrument :

MSVOA_U

ClientSampleId :

ETZ48

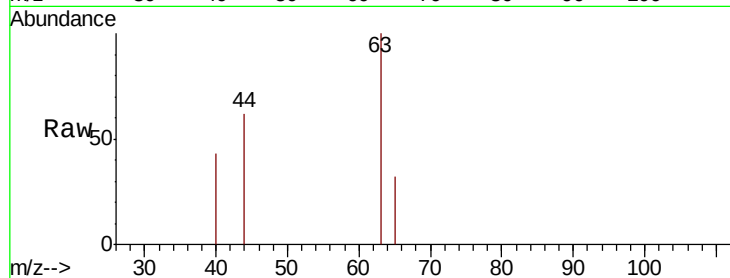
Tot Ion: 63 Resp: 809

Ion Ratio Lower Upper

63 100

65 32.0 21.9 40.7

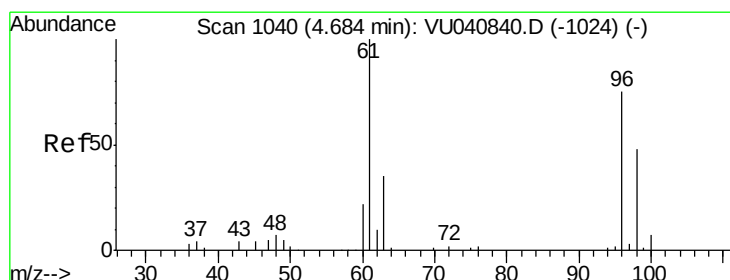
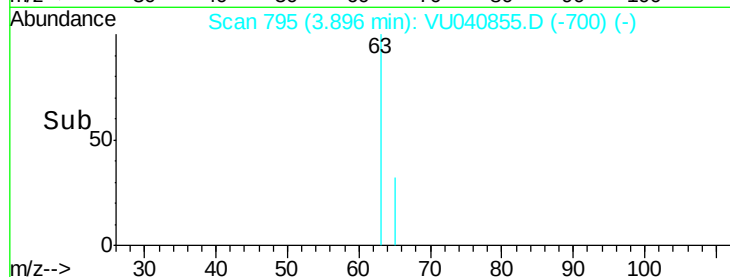
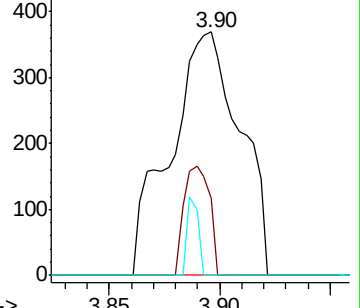
83 0.0 9.6 17.8#



Abundance Ion 63.10 (62.80 to 63.80): VU040840.D (-775) (-)

Ion 65.10 (64.80 to 65.80): VU040840.D (-775) (-)

Ion 83.05 (82.75 to 83.75): VU040840.D (-775) (-)



#22

cis-1,2-Dichloroethene

Concen: 352.496 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VU040855.D

Acq: 20 Oct 2020 18:20

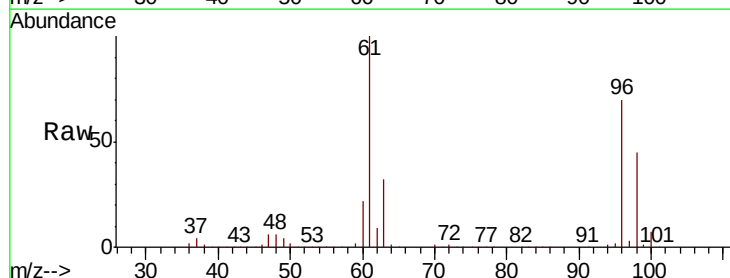
Tgt Ion: 96 Resp: 3401577

Ion Ratio Lower Upper

96 100

61 143.0 99.8 185.4

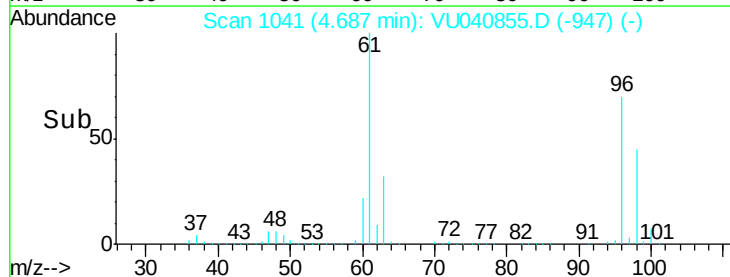
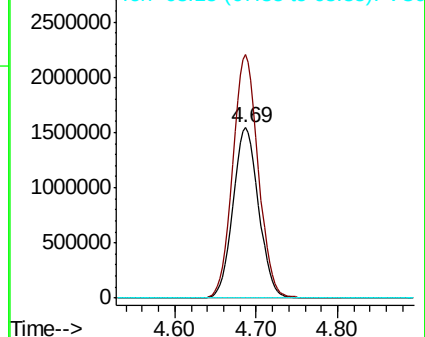
68 0.0 0.0 0.0

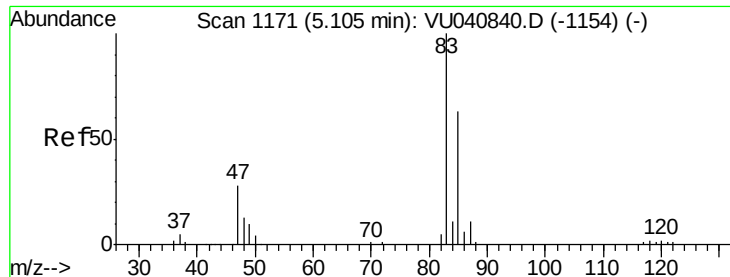


Abundance Ion 96.00 (95.70 to 96.70): VU040840.D (-1024) (-)

Ion 61.05 (60.75 to 61.75): VU040840.D (-1024) (-)

Ion 68.15 (67.85 to 68.85): VU040840.D (-1024) (-)

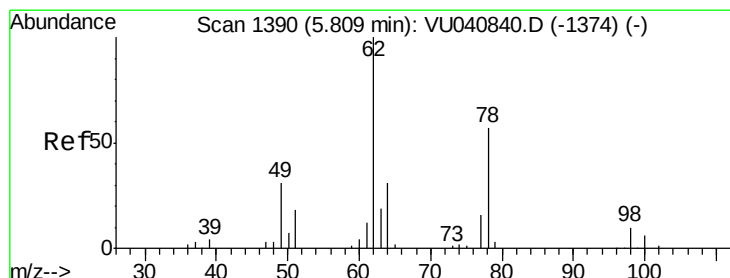
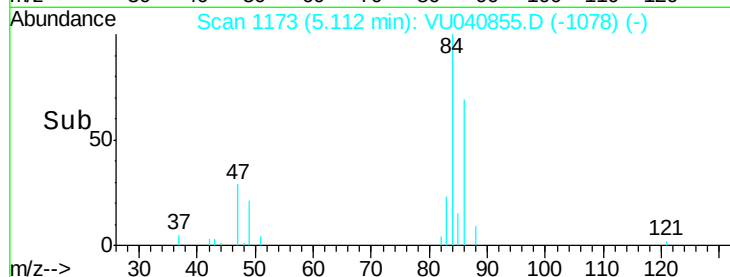
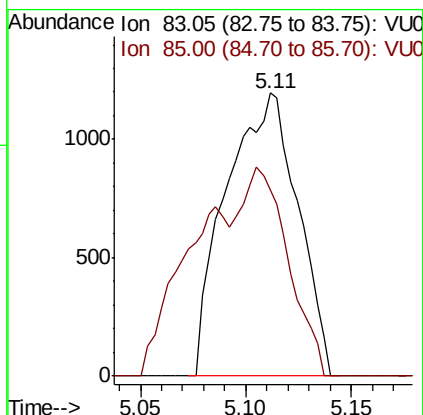
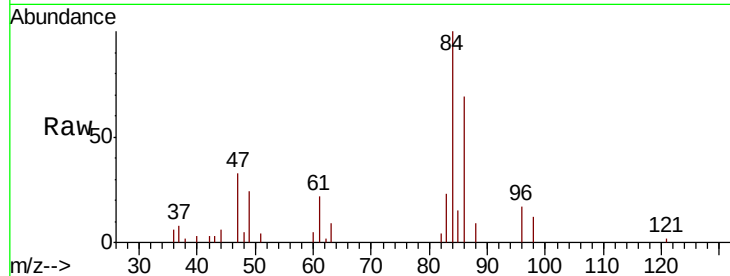




#25
Chloroform
Concen: 0.150 ug/L
RT: 5.11 min Scan# 1173
Delta R.T. 0.01 min
Lab File: VU040855.D
Acq: 20 Oct 2020 18:20

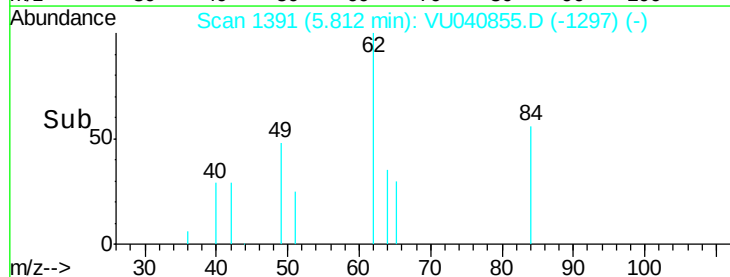
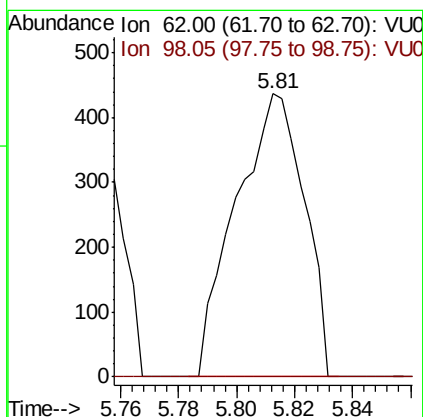
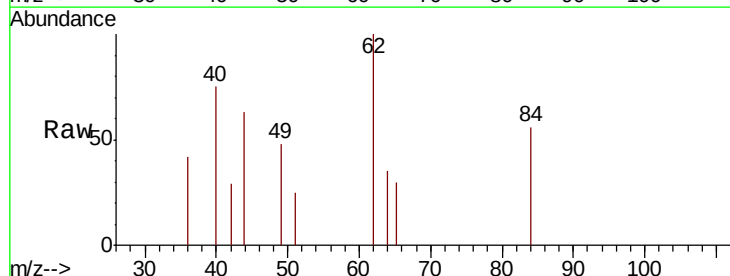
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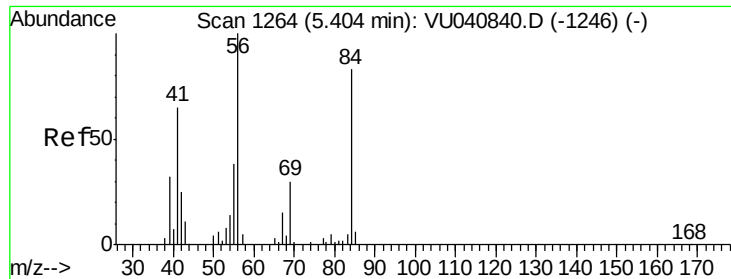
Tot Ion: 83 Resp: 2825
Ion Ratio Lower Upper
83 100
85 65.8 46.5 86.5



#27
1,2-Dichloroethane
Concen: 0.053 ug/L
RT: 5.81 min Scan# 1391
Delta R.T. 0.00 min
Lab File: VU040855.D
Acq: 20 Oct 2020 18:20

Tgt Ion: 62 Resp: 715
Ion Ratio Lower Upper
62 100
98 0.0 6.6 10.0#

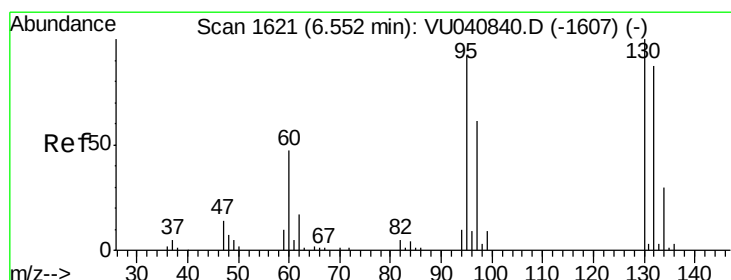
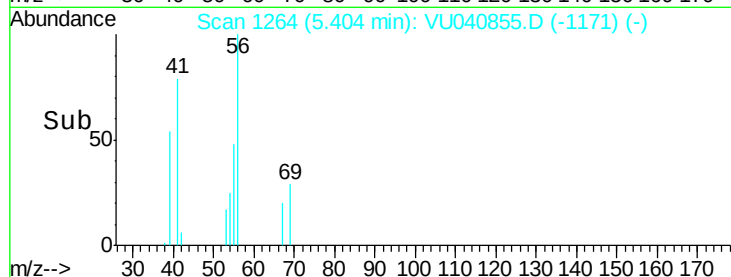
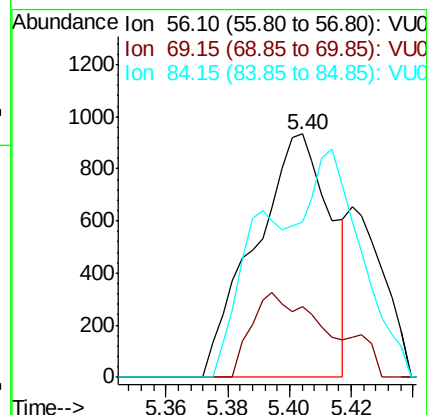
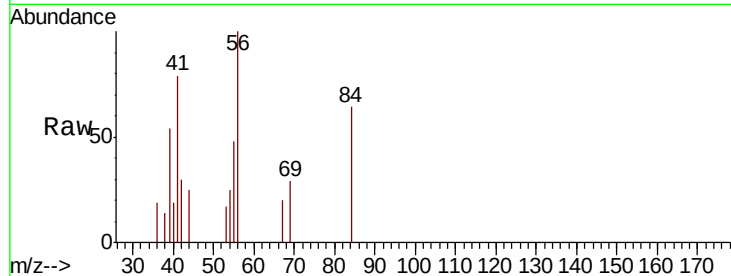




#30
Cyclohexane
Concen: 0.104 ug/L
RT: 5.40 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VU040855.D
Acq: 20 Oct 2020 18:20

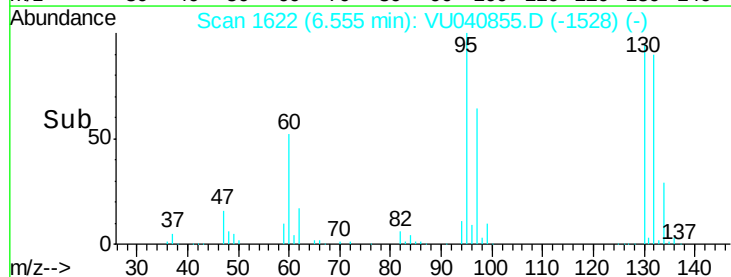
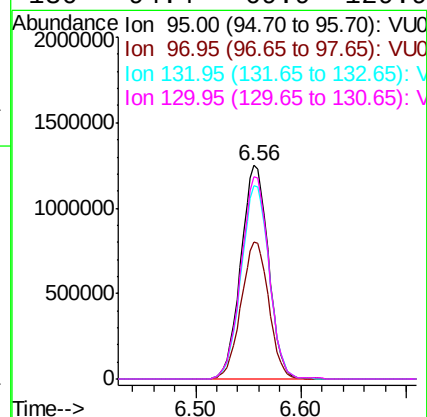
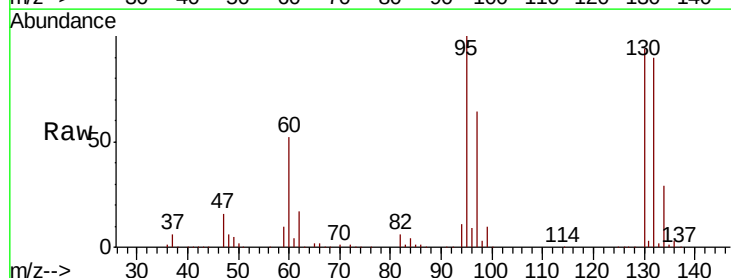
Instrument :
MSVOA_U
ClientSampleId :
ETZ48

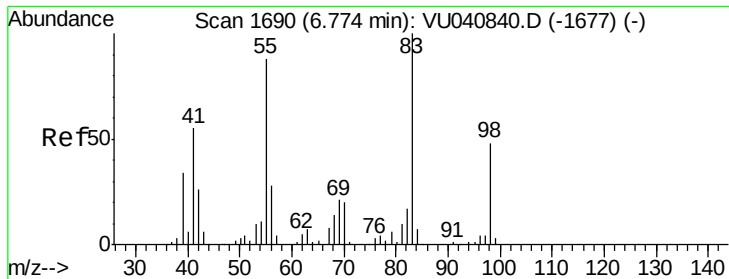
Tot Ion: 56 Resp: 1595
Ion Ratio Lower Upper
56 100
69 0.0 23.8 35.8#
84 68.5 64.0 96.0



#34
Trichloroethene
Concen: 220.164 ug/L
RT: 6.56 min Scan# 1622
Delta R.T. 0.00 min
Lab File: VU040855.D
Acq: 20 Oct 2020 18:20

Tgt Ion: 95 Resp: 2278763
Ion Ratio Lower Upper
95 100
97 64.2 45.5 84.5
132 90.4 67.5 125.4
130 94.4 69.9 129.9

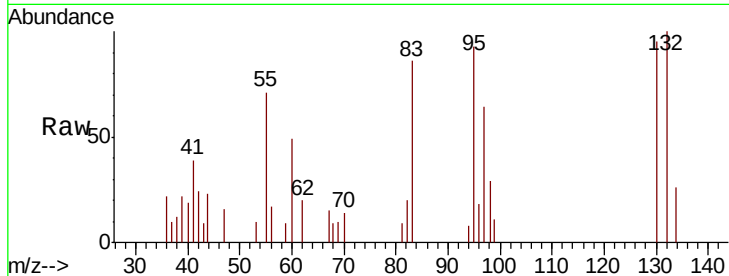




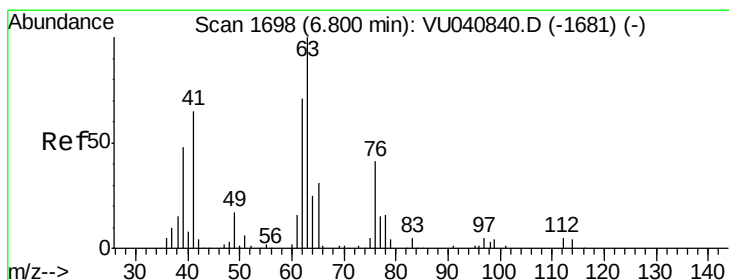
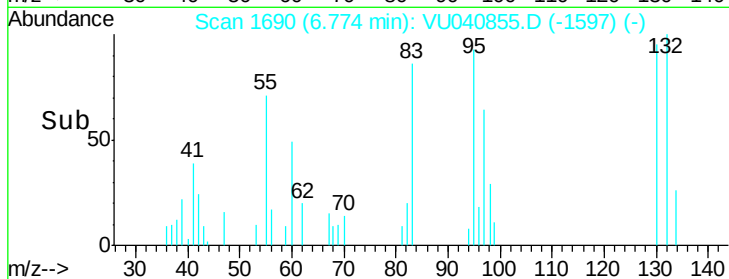
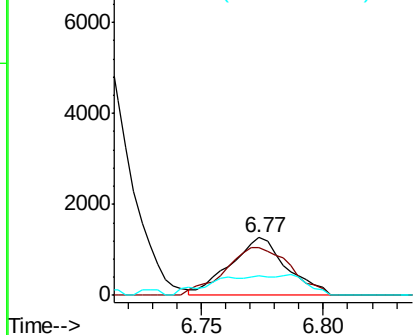
#35
Methvlcvclohexane
Concen: 0.138 ug/L
RT: 6.77 min Scan# 1690
Delta R.T. -0.00 min
Lab File: VU040855.D
Acq: 20 Oct 2020 18:20

Instrument :
MSVOA_U
ClientSampleId :
ETZ48

Tot Ion: 83 Resp: 2026
Ion Ratio Lower Upper
83 100
55 96.3 70.7 106.1
98 0.0 38.4 57.6#

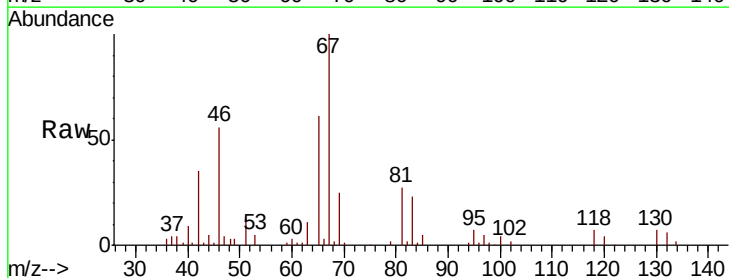


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

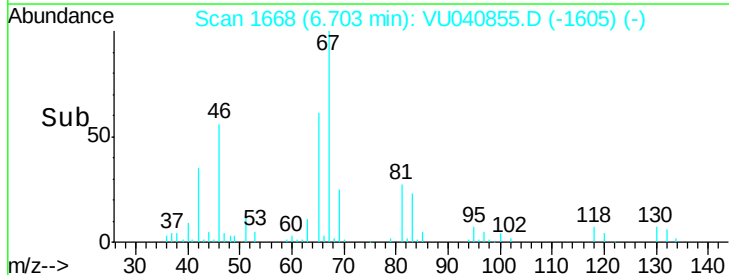
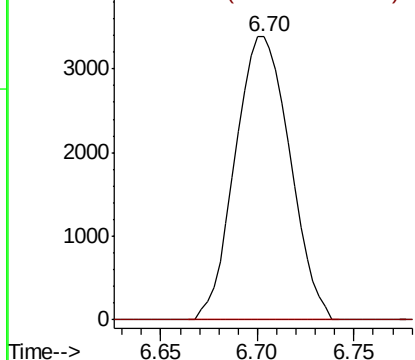


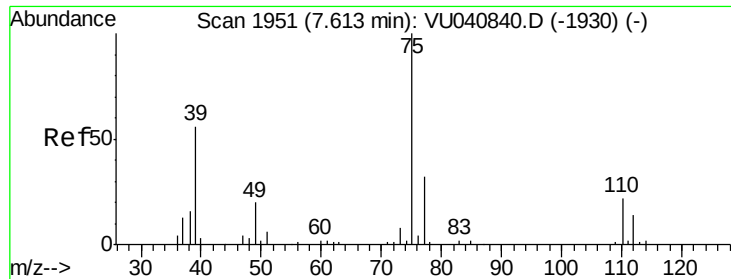
#37
1,2-Dichloropropane
Concen: 0.598 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.10 min
Lab File: VU040855.D
Acq: 20 Oct 2020 18:20

Tgt Ion: 63 Resp: 6657
Ion Ratio Lower Upper
63 100
112 0.0 3.5 5.3#



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 112.10 (111.80 to 112.80): V

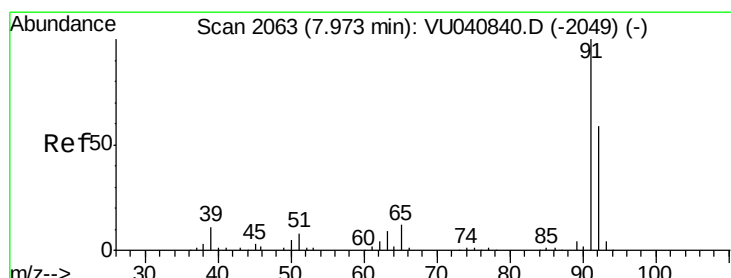
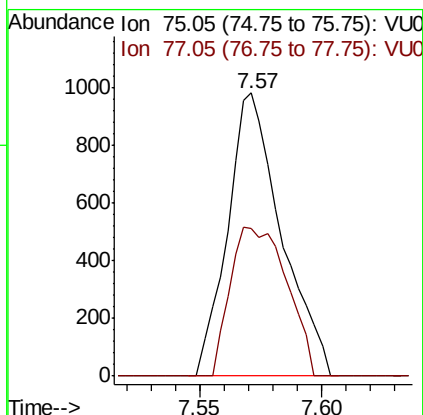
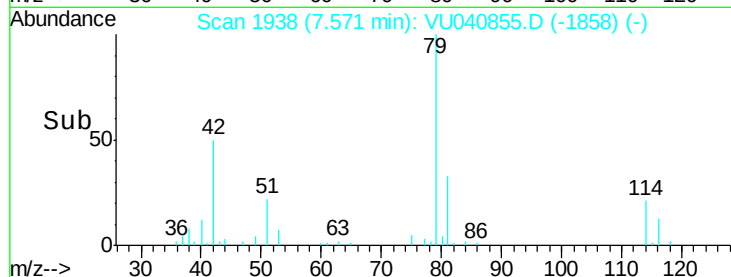
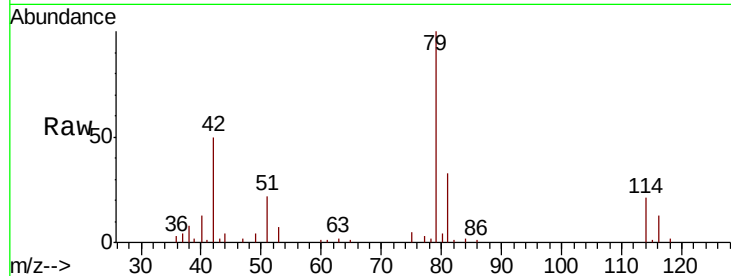




#39
 cis-1,3-Dichloropropene
 Concen: 0.098 ug/L
 RT: 7.57 min Scan# 1938
 Delta R.T. -0.04 min
 Lab File: VU040855.D
 Acq: 20 Oct 2020 18:20

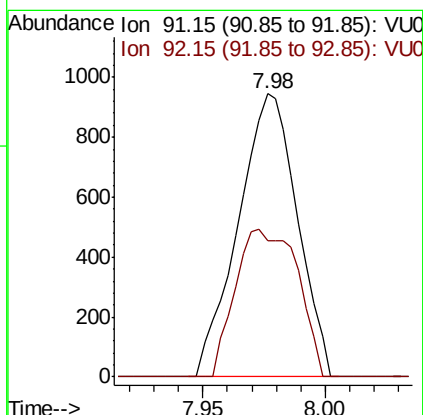
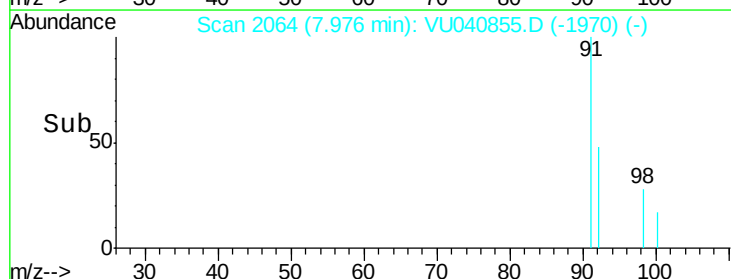
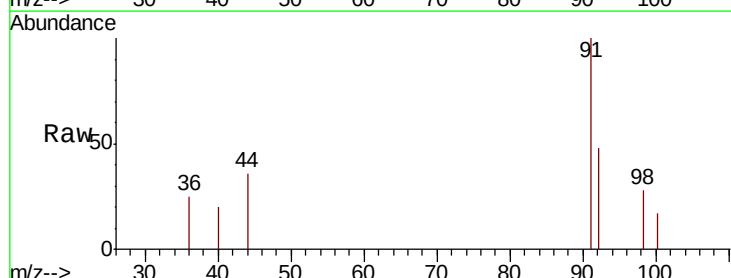
Instrument :
 MSVOA_U
 ClientSampleId :
 ETZ48

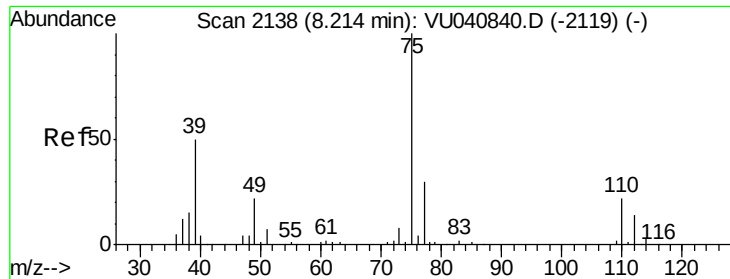
Tot Ion: 75 Resp: 1497
 Ion Ratio Lower Upper
 75 100
 77 52.0 20.5 38.1#



#42
 Toluene
 Concen: 0.039 ug/L
 RT: 7.98 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VU040855.D
 Acq: 20 Oct 2020 18:20

Tgt Ion: 91 Resp: 1583
 Ion Ratio Lower Upper
 91 100
 92 48.4 40.2 74.6





#44

trans-1,3-Dichloropropene

Concen: 0.070 ug/L

RT: 8.19 min Scan# 2129

Delta R.T. -0.03 min

Lab File: VU040855.D

Acq: 20 Oct 2020 18:20

Instrument :

MSVOA_U

ClientSampleId :

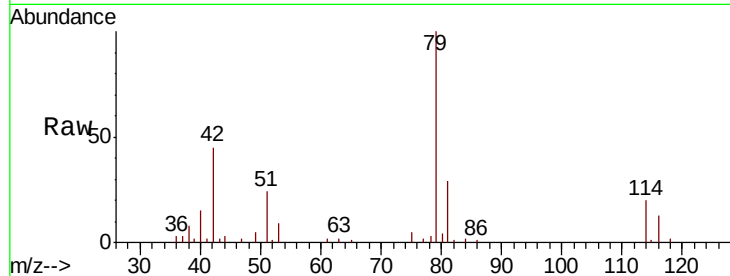
ETZ48

Tot Ion: 75 Resp: 981

Ion Ratio Lower Upper

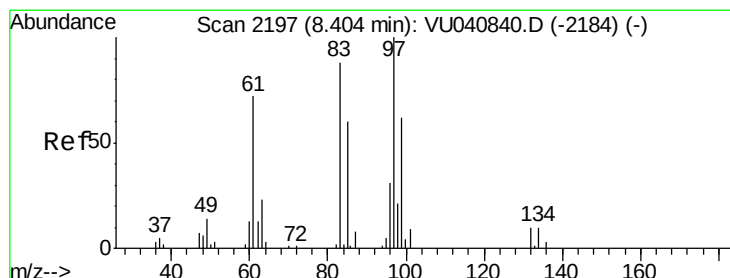
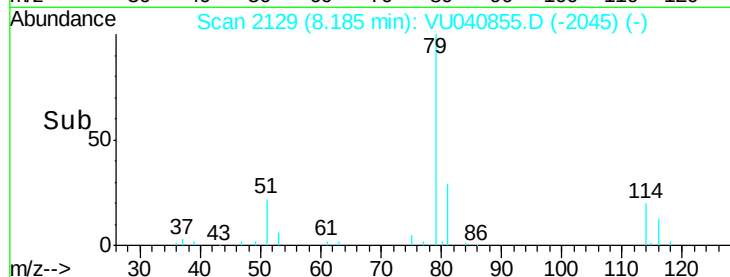
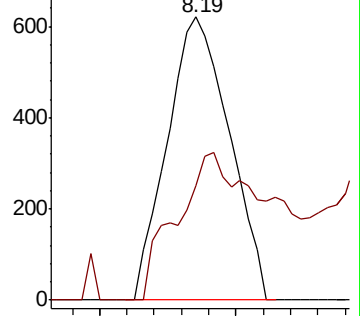
75 100

77 40.6 20.4 38.0#



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: 8.584 ug/L

RT: 8.57 min Scan# 2248

Delta R.T. 0.16 min

Lab File: VU040855.D

Acq: 20 Oct 2020 18:20

Tgt Ion: 97 Resp: 71526

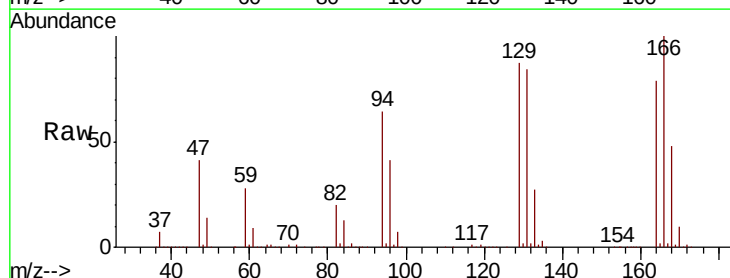
Ion Ratio Lower Upper

97 100

99 15.3 44.0 81.6#

83 259.9 62.9 116.9#

85 37.0 40.3 74.8#

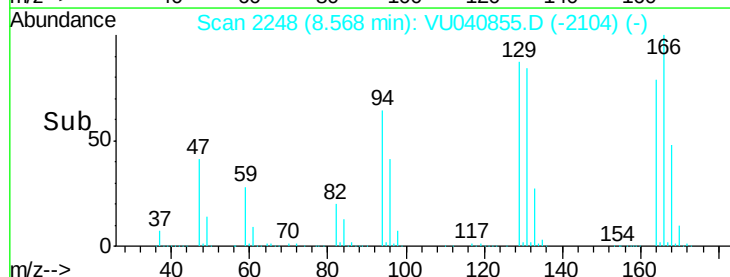
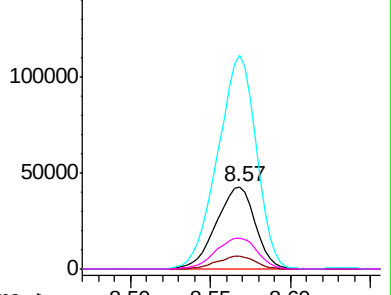


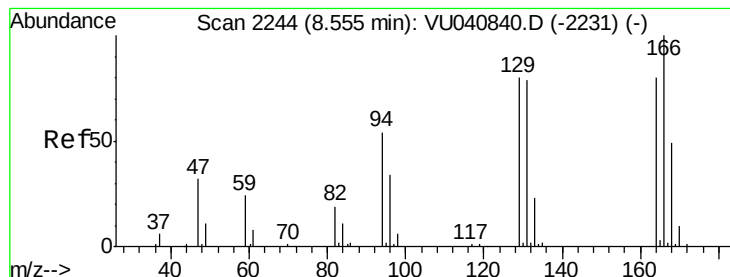
Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0





#47

Tetrachloroethene

Concen: 868.587 ug/L

RT: 8.57 min Scan# 2248

Delta R.T. 0.01 min

Lab File: VU040855.D

Acq: 20 Oct 2020 18:20

Instrument :

MSVOA_U

ClientSampleId :

ETZ48

Tot Ion:164 Resp: 6413992

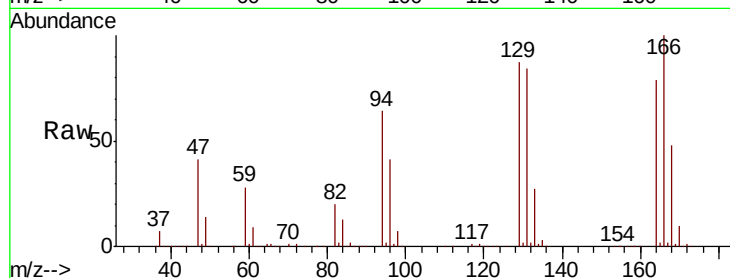
Ion Ratio Lower Upper

164 100

129 110.8 68.8 127.8

131 106.5 66.7 123.9

166 127.3 83.9 155.7

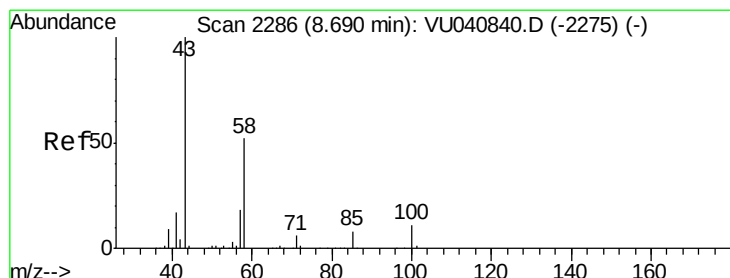
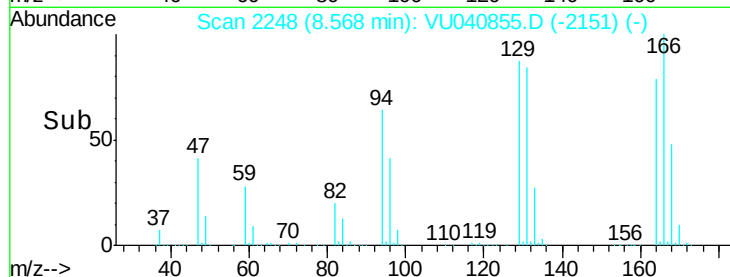
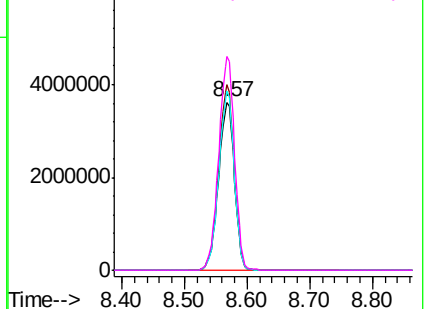


Abundance Ion 163.90 (163.60 to 164.60): V

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: 2.735 ug/L

RT: 8.64 min Scan# 2270

Delta R.T. -0.05 min

Lab File: VU040855.D

Acq: 20 Oct 2020 18:20

Tgt Ion: 43 Resp: 18063

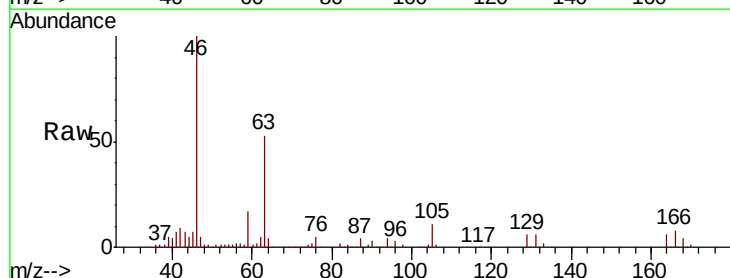
Ion Ratio Lower Upper

43 100

58 25.5 41.0 61.6#

57 25.0 14.4 21.6#

100 0.0 8.6 13.0#

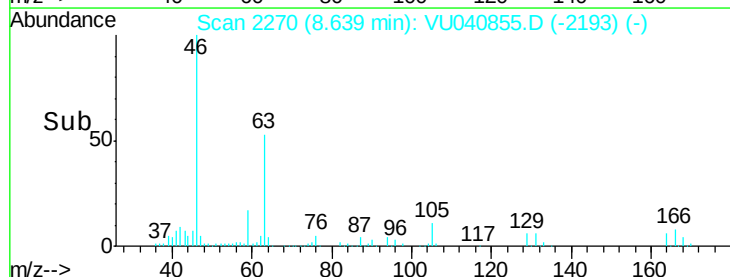
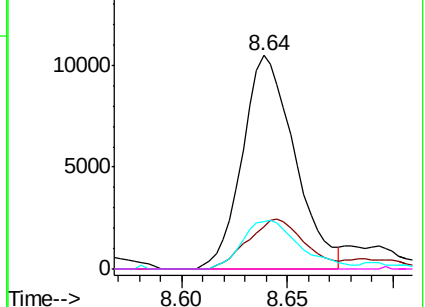


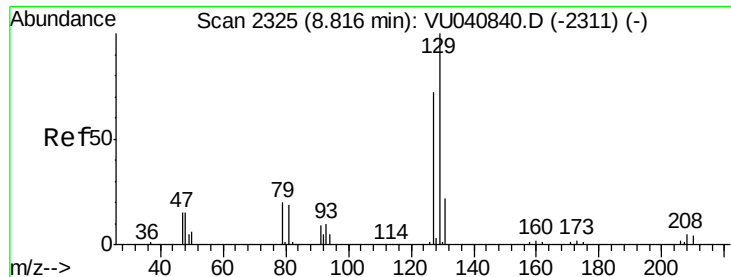
Abundance Ion 43.05 (42.75 to 43.75): VU0

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: 710.119 ug/L

RT: 8.57 min Scan# 2248

Delta R.T. -0.25 min

Lab File: VU040855.D

Acq: 20 Oct 2020 18:20

Instrument :

MSVOA_U

ClientSampled :

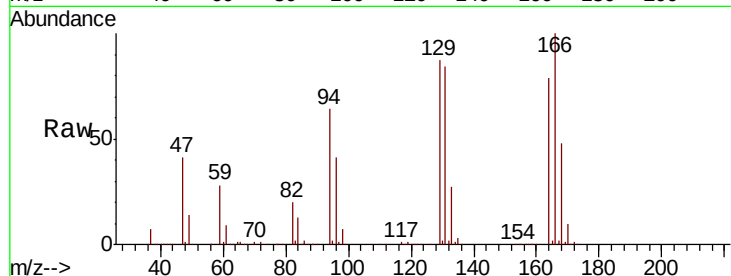
ETZ48

Tot Ion:129 Resp: 6808263

Ion Ratio Lower Upper

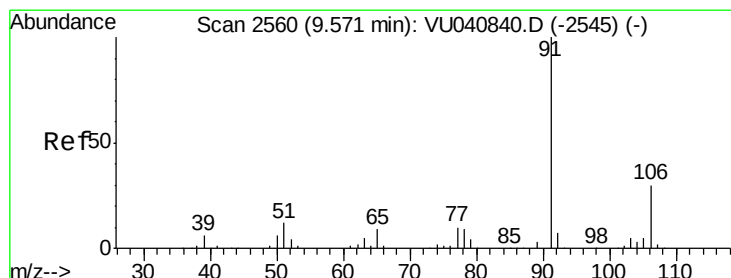
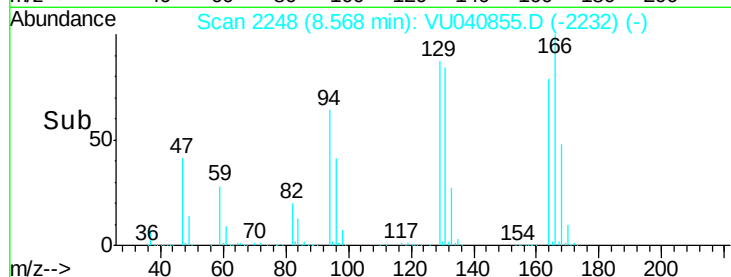
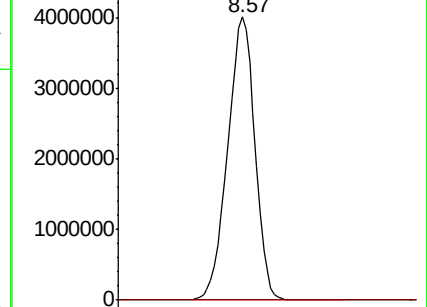
129 100

127 0.0 55.8 103.6#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V



#52

Ethylbenzene

Concen: 0.047 ug/L

RT: 9.57 min Scan# 2559

Delta R.T. -0.00 min

Lab File: VU040855.D

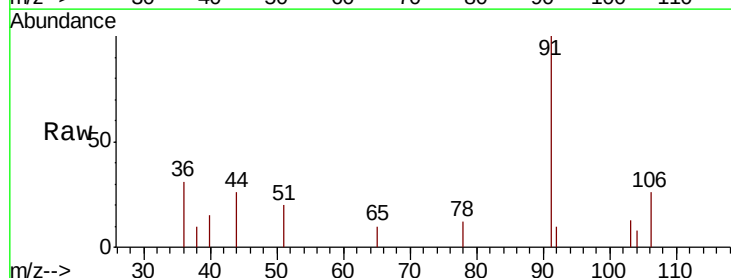
Acq: 20 Oct 2020 18:20

Tgt Ion: 91 Resp: 2085

Ion Ratio Lower Upper

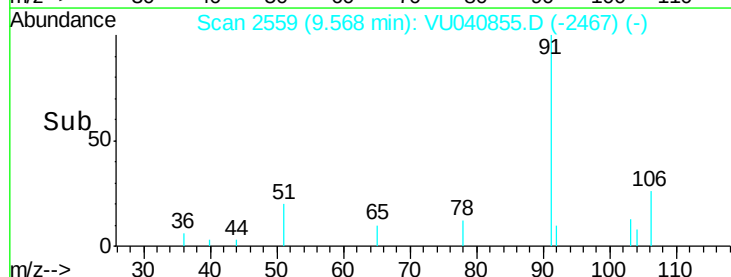
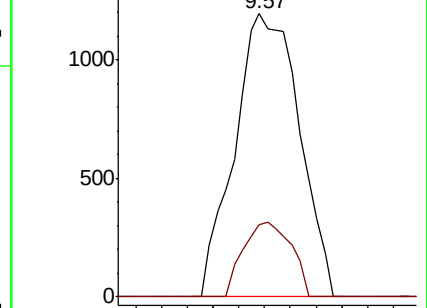
91 100

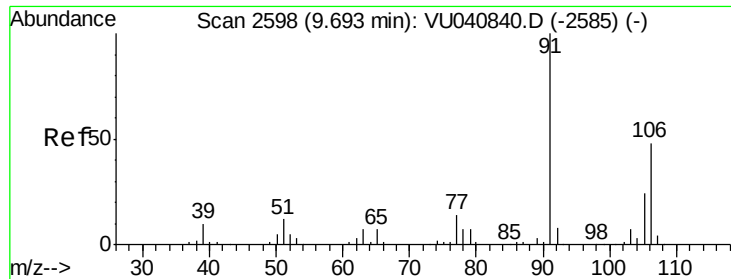
106 25.5 20.7 38.5



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 106.15 (105.85 to 106.85): V





#53

m,p-Xylene

Concen: 0.119 ug/L

RT: 9.70 min Scan# 2599

Delta R.T. 0.00 min

Lab File: VU040855.D

Acq: 20 Oct 2020 18:20

Instrument :

MSVOA_U

ClientSampleId :

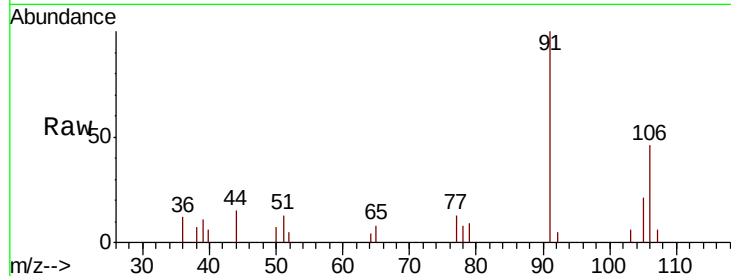
ETZ48

Tot Ion:106 Resp: 1915

Ion Ratio Lower Upper

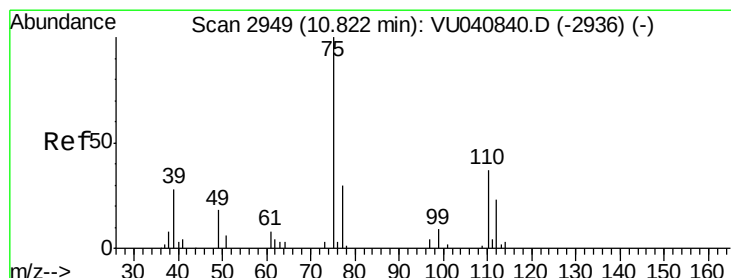
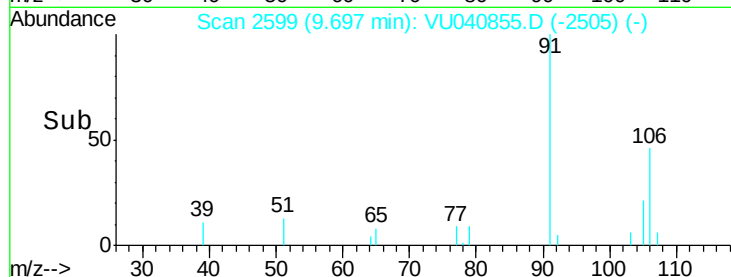
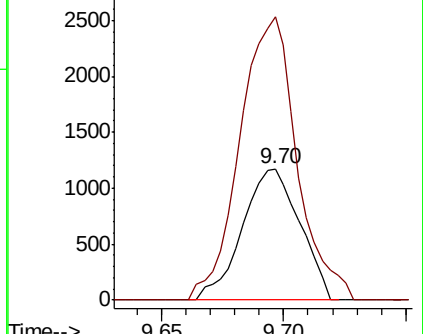
106 100

91 215.6 148.5 275.7



Abundance Ion 106.15 (105.85 to 106.85): VU040840.D (-2585) (-)

Ion 91.15 (90.85 to 91.85): VU040840.D (-2585) (-)



#59

1,2,3-Trichloropropane

Concen: 0.877 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU040855.D

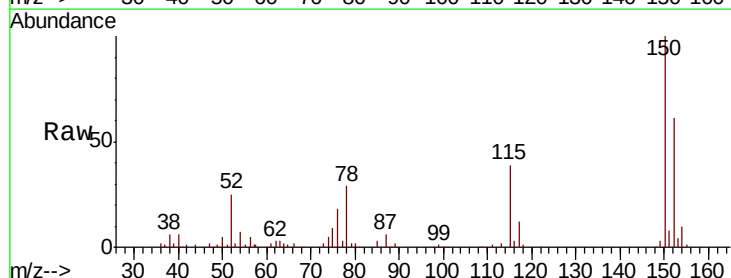
Acq: 20 Oct 2020 18:20

Tgt Ion: 75 Resp: 7164

Ion Ratio Lower Upper

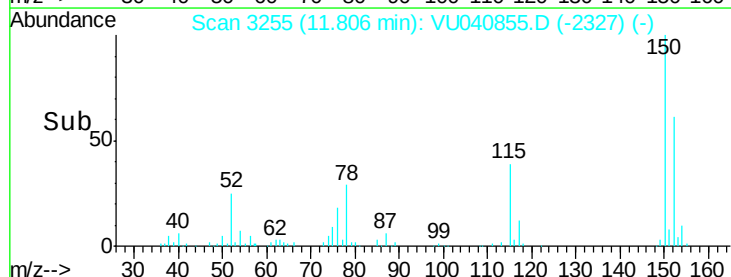
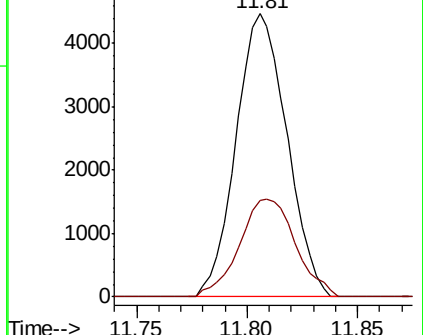
75 100

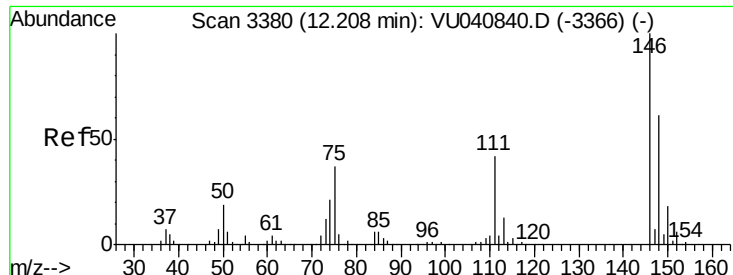
77 38.1 26.4 39.6



Abundance Ion 75.00 (74.70 to 75.70): VU040840.D (-2936) (-)

Ion 77.00 (76.70 to 77.70): VU040840.D (-2936) (-)

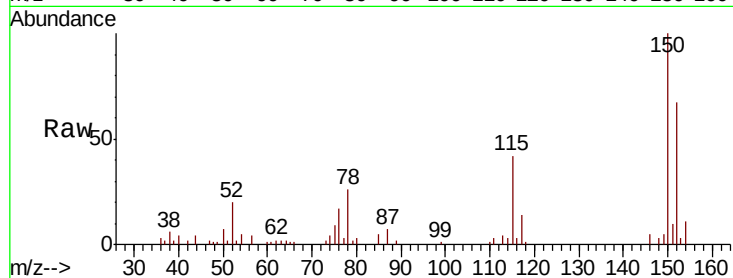




#65
 1,2-Dichlorobenzene
 Concen: 0.067 ug/L
 RT: 12.20 min Scan# 3379
 Delta R.T. -0.00 min
 Lab File: VU040855.D
 Acq: 20 Oct 2020 18:20

Instrument :
 MSVOA_U
 ClientSampleId :
 ETZ48

Tot Ion	Ratio	Lower	Upper
146	100		
111	54.8	34.4	51.6
148	73.9	50.0	75.0



Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

