

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010921\
 Data File : VU041887.D
 Acq On : 07 Jan 2021 21:04
 Operator : SY/MD
 Sample : M1026-18
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 08 05:02:16 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Jan 08 04:58:19 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	133869	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	132717	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	57081	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	41596	3.98	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	79.60%
7) Chloroethane-d5	1.92	69	42786	5.28	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	105.60%
11) 1,1-Dichloroethene-d2	2.58	63	63365	3.29	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	65.80%
20) 2-Butanone-d5	4.65	46	174392	58.01	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	116.02%
24) Chloroform-d	5.08	84	96992	5.41	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	108.20%
26) 1,2-Dichloroethane-d4	5.72	65	55277	5.43	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	108.60%
32) Benzene-d6	5.74	84	189166	4.98	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.60%
36) 1,2-Dichloropropane-d6	6.70	67	62925	5.28	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	105.60%
41) Toluene-d8	7.90	98	154834	4.51	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.20%
43) trans-1,3-Dichloropropene-	8.18	79	23631	4.41	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.20%
46) 2-Hexanone-d5	8.64	63	147004	50.19	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	100.38%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	56914	5.26	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	105.20%
64) 1,2-Dichlorobenzene-d4	12.19	152	64414	6.35	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	127.00%#

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	2326	0.205	ug/L	93
3) Chloromethane	1.52	50	1087	0.099	ug/L	99
5) Vinyl chloride	1.61	62	462	0.038	ug/L #	1
8) Chloroethane	1.94	64	348	0.042	ug/L #	44
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	1649	0.179	ug/L #	62
12) 1,1-Dichloroethene	2.59	96	2456	0.270	ug/L #	1
13) Acetone	2.66	43	3332	1.742	ug/L	91
16) Methylene chloride	3.06	84	4393	0.405	ug/L	87
17) Methyl tert-butyl Ether	3.38	73	3295	0.136	ug/L #	93
18) trans-1,2-Dichloroethene	3.37	96	46018	4.899	ug/L	94
19) 1,1-Dichloroethane	3.89	63	2031	0.116	ug/L #	76
22) cis-1,2-Dichloroethene	4.68	96	98863	9.523	ug/L	98
27) 1,2-Dichloroethane	5.81	62	554	0.046	ug/L #	73
29) 1,1,1-Trichloroethane	5.34	97	4813	0.316	ug/L	94
33) Benzene	5.79	78	4687	0.110	ug/L	100
34) Trichloroethene	6.55	95	768501	72.053	ug/L	97
35) Methylcyclohexane	6.70	83	14617	0.848	ug/L #	18

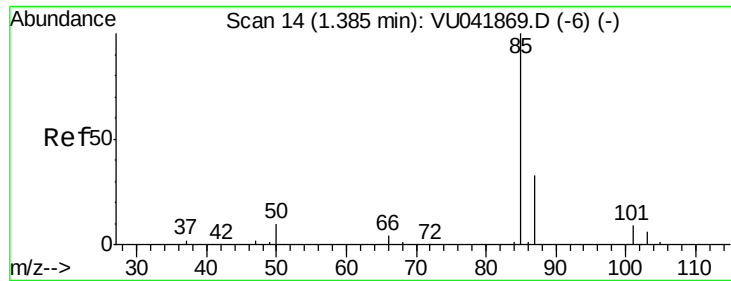
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010921\
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 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Jan 08 04:58:19 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,2-Dichloropropane	6.70	63	6472	0.596	ug/L #	88
39) cis-1,3-Dichloropropene	7.57	75	1376	0.086	ug/L #	48
44) trans-1,3-Dichloropropene	8.18	75	975	0.068	ug/L #	57
47) Tetrachloroethene	8.56	164	37995	5.089	ug/L	97
48) 2-Hexanone	8.64	43	17309	3.079	ug/L #	68
49) Dibromochloromethane	8.56	129	36305	3.937	ug/L #	10
59) 1,2,3-Trichloropropane	11.81	75	6235	0.765	ug/L	95
62) 1,3-Dichlorobenzene	11.83	146	1373	0.079	ug/L	89
63) 1,4-Dichlorobenzene	11.83	146	1373	0.078	ug/L	87
65) 1,2-Dichlorobenzene	12.21	146	1565	0.092	ug/L #	88

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



#2

Dichlorodifluoromethane

Concen: 0.205 ug/L

RT: 1.39 min Scan# 15

Delta R.T. 0.00 min

Lab File: VU041887.D

Acq: 07 Jan 2021 21:04

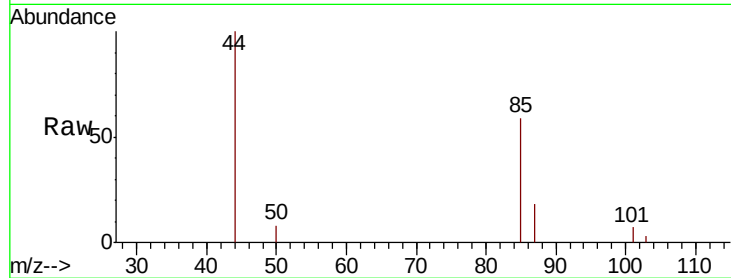
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 2326

Ion Ratio Lower Upper

85 100

87 28.2 25.8 38.6

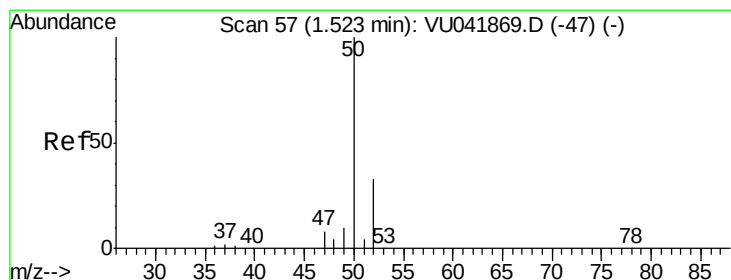
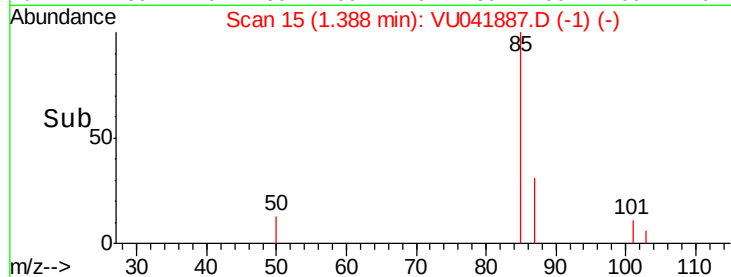


Abundance Ion 85.00 (84.70 to 85.70): VU041869.D (-6) (-)

Ion 87.00 (86.70 to 87.70): VU041869.D (-6) (-)

1.39

Time-->



#3

Chloromethane

Concen: 0.099 ug/L

RT: 1.52 min Scan# 57

Delta R.T. -0.00 min

Lab File: VU041887.D

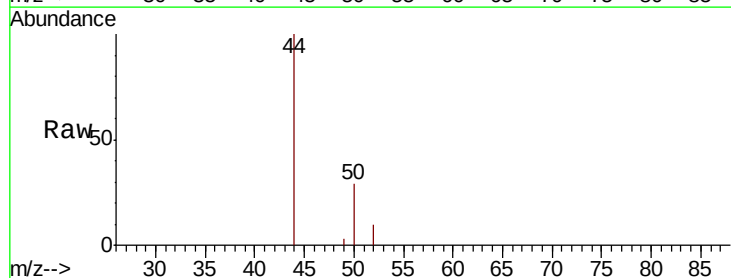
Acq: 07 Jan 2021 21:04

Tgt Ion: 50 Resp: 1087

Ion Ratio Lower Upper

50 100

52 35.3 24.1 44.8

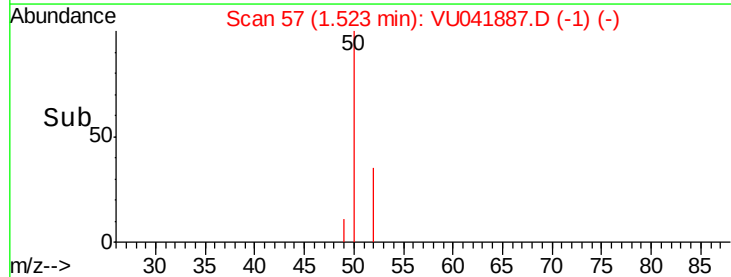


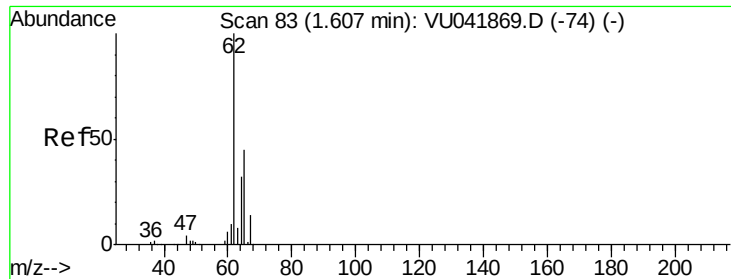
Abundance Ion 50.05 (49.75 to 50.75): VU041869.D (-47) (-)

Ion 52.05 (51.75 to 52.75): VU041869.D (-47) (-)

1.52

Time-->





#5

Vinyl chloride

Concen: 0.038 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU041887.D

Acq: 07 Jan 2021 21:04

Instrument :

MSVOA_U

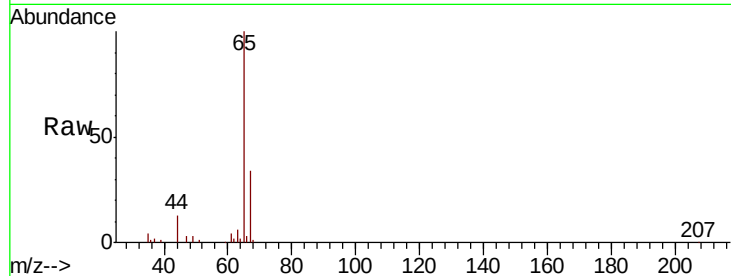
ClientSampleId :

Tot Ion: 62 Resp: 462

Ion Ratio Lower Upper

62 100

64 99.8 22.5 41.7#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0

600

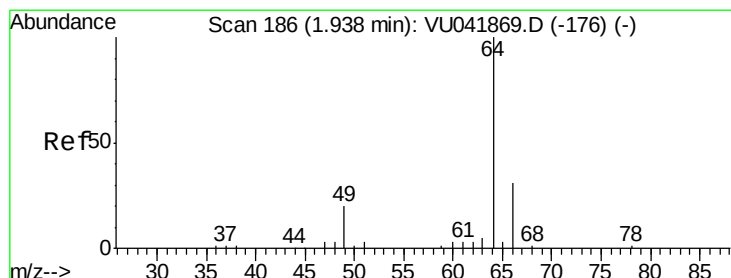
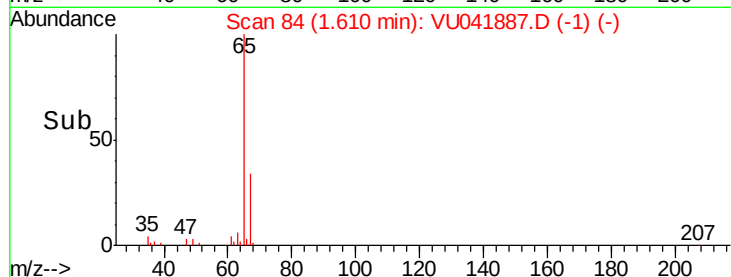
400

200

0

1.58 1.60 1.62

Time-->



#8

Chloroethane

Concen: 0.042 ug/L

RT: 1.94 min Scan# 188

Delta R.T. 0.01 min

Lab File: VU041887.D

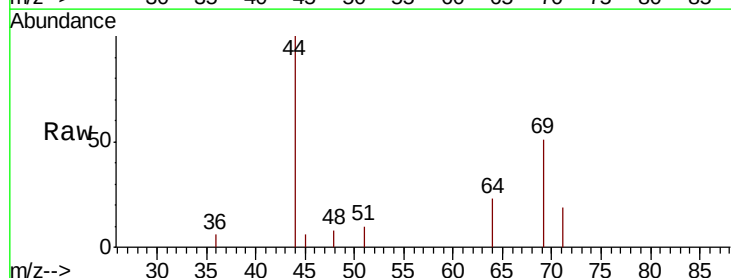
Acq: 07 Jan 2021 21:04

Tgt Ion: 64 Resp: 348

Ion Ratio Lower Upper

64 100

66 0.0 21.6 40.0#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0

400

300

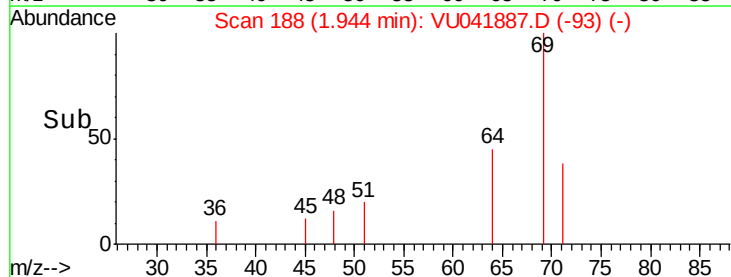
200

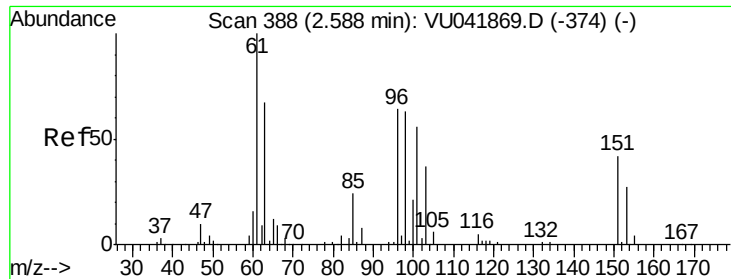
100

0

1.92 1.94 1.96

Time-->





#10

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

Concen: 0.179 ug/L

RT: 2.58 min Scan# 385

Delta R.T. -0.01 min

Lab File: VU041887.D

Acq: 07 Jan 2021 21:04

Instrument :

MSVOA_U

ClientSampled :

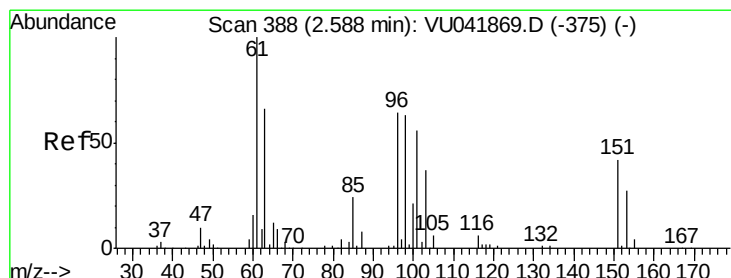
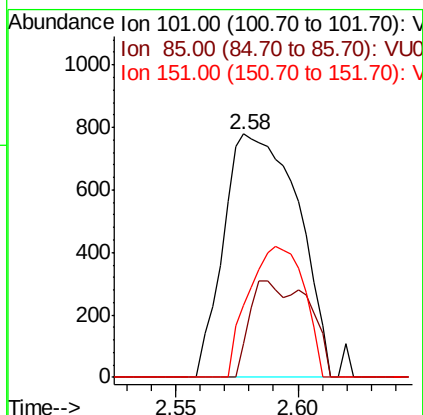
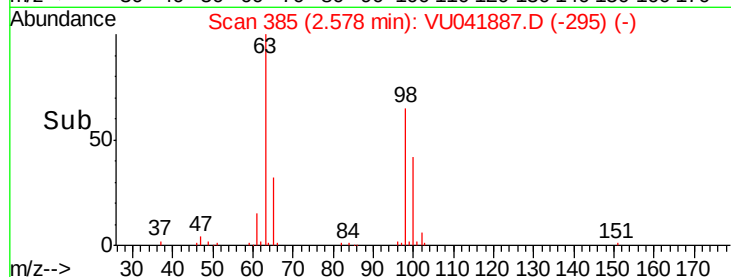
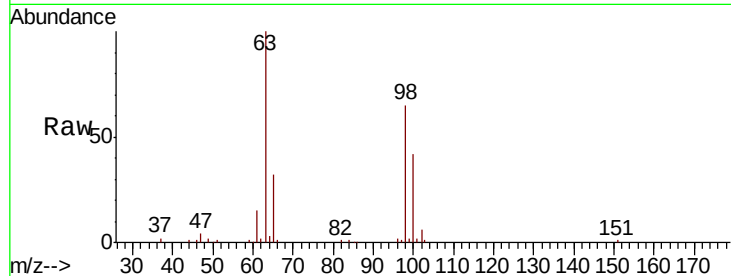
Tot Ion:101 Resp: 1649

Ion Ratio Lower Upper

101 100

85 17.3 33.6 50.4#

151 40.1 56.2 84.4#



#12

1,1-Dichloroethene

Concen: 0.270 ug/L

RT: 2.59 min Scan# 389

Delta R.T. 0.00 min

Lab File: VU041887.D

Acq: 07 Jan 2021 21:04

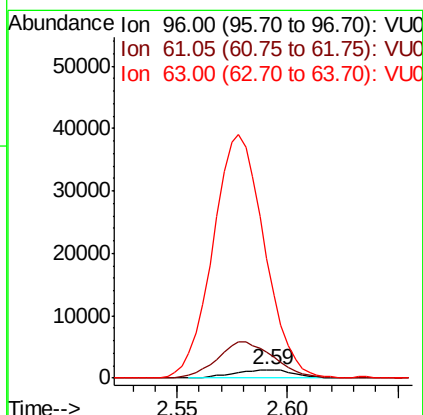
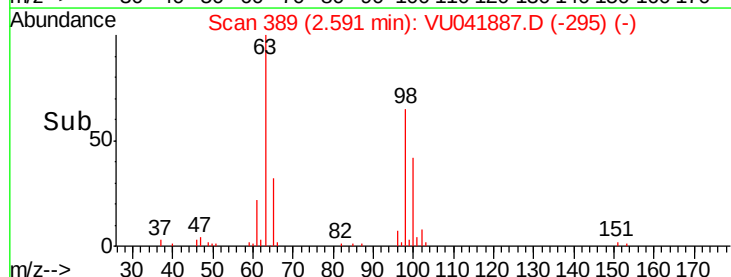
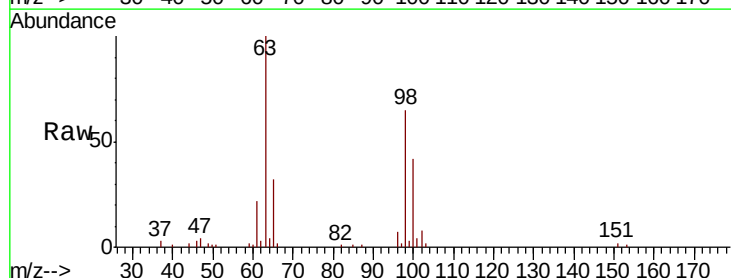
Tgt Ion: 96 Resp: 2456

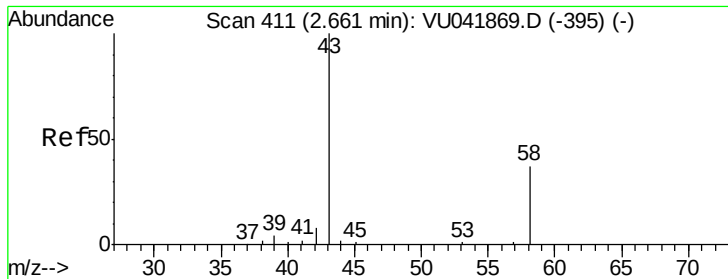
Ion Ratio Lower Upper

96 100

61 311.8 123.8 230.0#

63 1442.5 81.0 150.4#

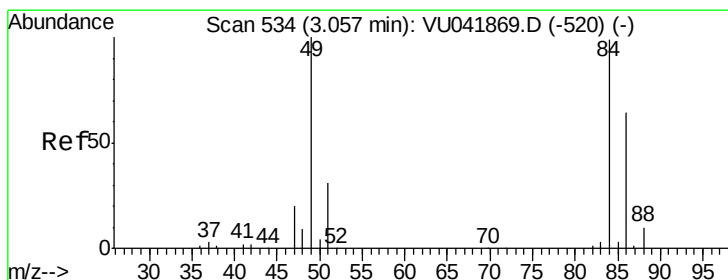
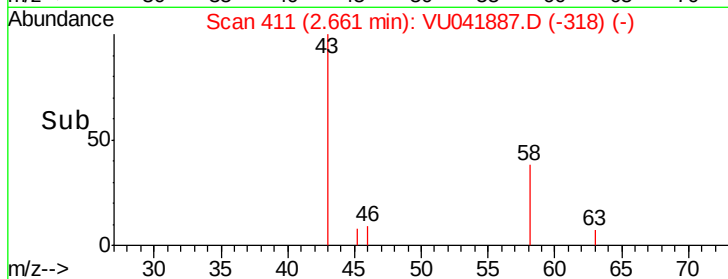
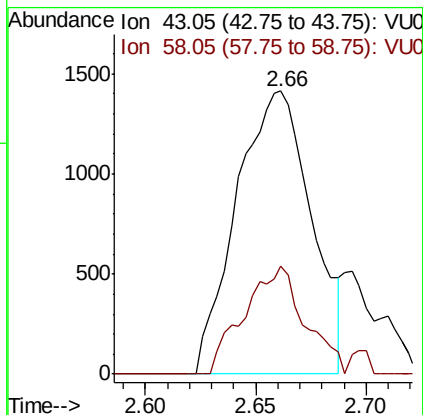
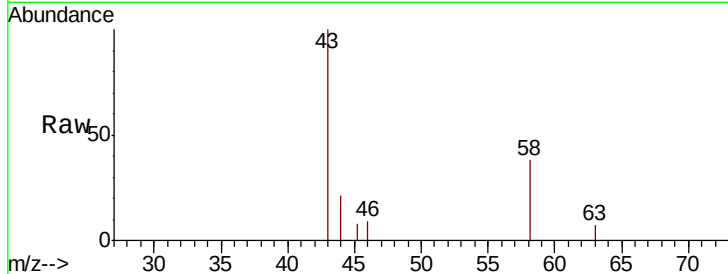




#13
Acetone
Concen: 1.742 ug/L
RT: 2.66 min Scan# 411
Delta R.T. -0.00 min
Lab File: VU041887.D
Acq: 07 Jan 2021 21:04

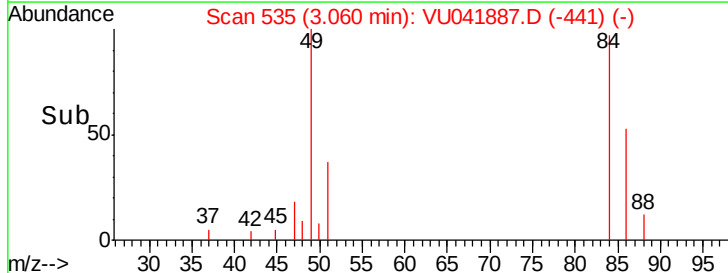
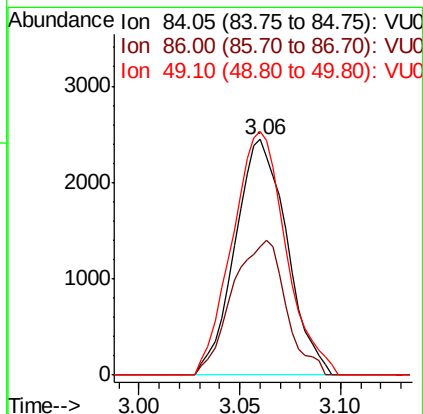
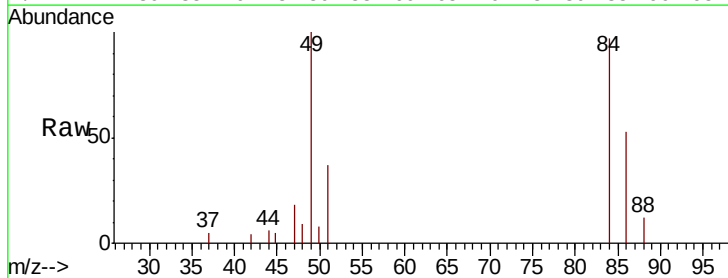
Instrument :
MSVOA_U
ClientSampleId :

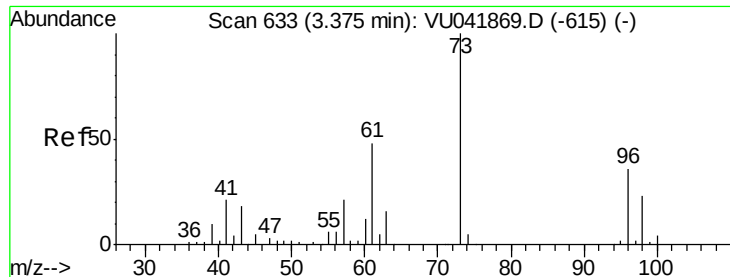
Tot Ion: 43 Resp: 3332
Ion Ratio Lower Upper
43 100
58 31.0 0.0 73.2



#16
Methylene chloride
Concen: 0.405 ug/L
RT: 3.06 min Scan# 535
Delta R.T. 0.00 min
Lab File: VU041887.D
Acq: 07 Jan 2021 21:04

Tgt Ion: 84 Resp: 4393
Ion Ratio Lower Upper
84 100
86 54.6 45.1 83.7
49 103.4 83.1 154.3

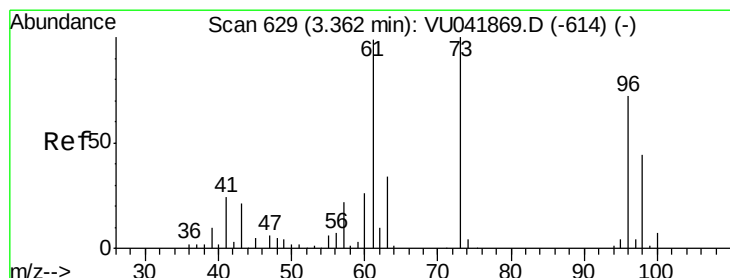
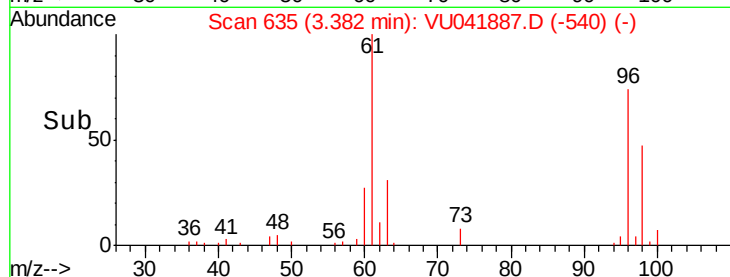
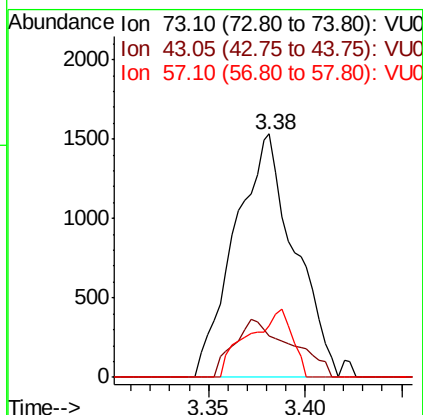
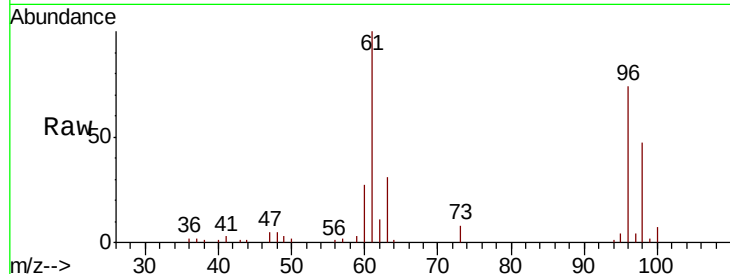




#17
Methyl tert-butyl Ether
Concen: 0.136 ug/L
RT: 3.38 min Scan# 635
Delta R.T. 0.01 min
Lab File: VU041887.D
Acq: 07 Jan 2021 21:04

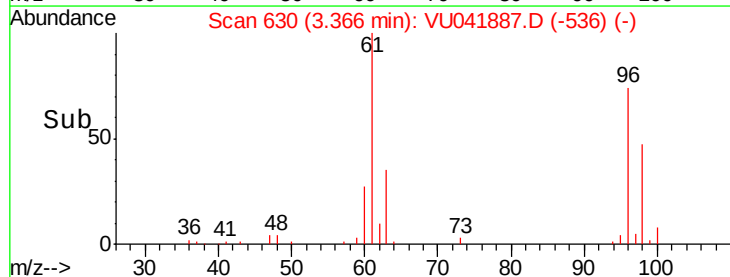
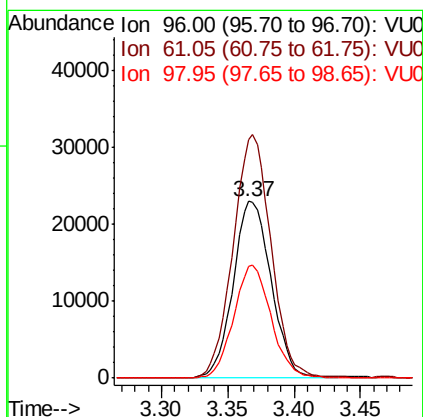
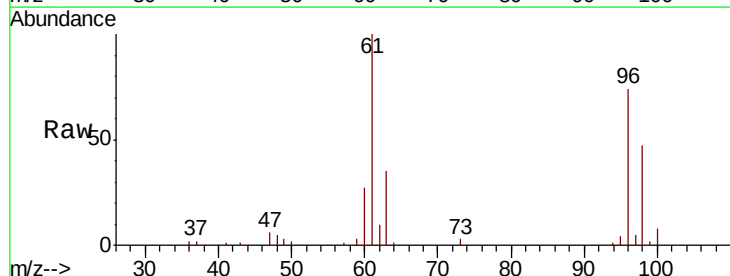
Instrument :
MSVOA_U
ClientSampleId :

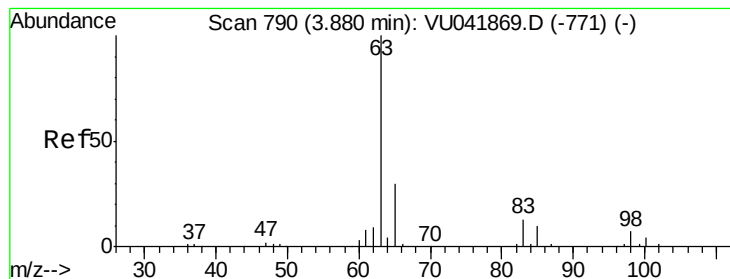
Tot Ion: 73 Resp: 3295
Ion Ratio Lower Upper
73 100
43 22.8 14.7 22.1#
57 20.5 18.2 27.4



#18
trans-1,2-Dichloroethene
Concen: 4.899 ug/L
RT: 3.37 min Scan# 630
Delta R.T. 0.00 min
Lab File: VU041887.D
Acq: 07 Jan 2021 21:04

Tgt Ion: 96 Resp: 46018
Ion Ratio Lower Upper
96 100
61 134.8 101.8 189.0
98 62.8 44.4 82.5





#19

1,1-Dichloroethane

Concen: 0.116 ug/L

RT: 3.89 min Scan# 794

Delta R.T. 0.01 min

Lab File: VU041887.D

Acq: 07 Jan 2021 21:04

Instrument :

MSVOA_U

ClientSampleId :

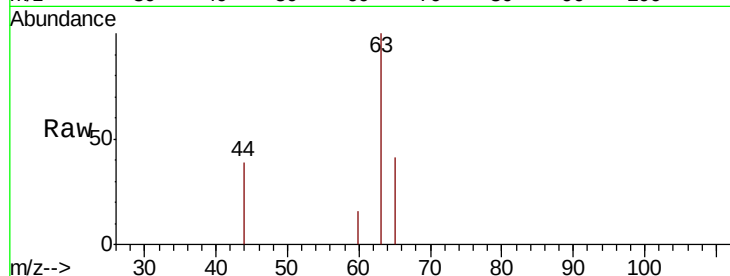
Tot Ion: 63 Resp: 2031

Ion Ratio Lower Upper

63 100

65 41.4 21.3 39.6#

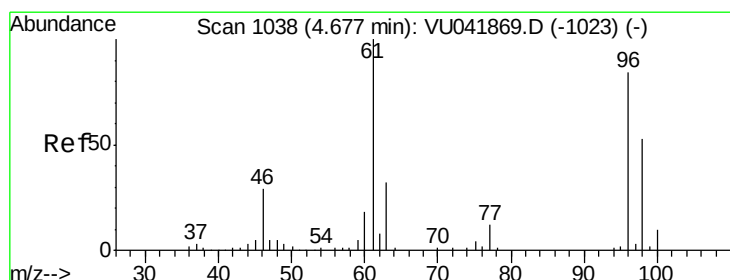
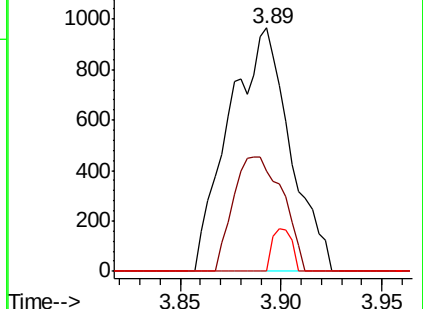
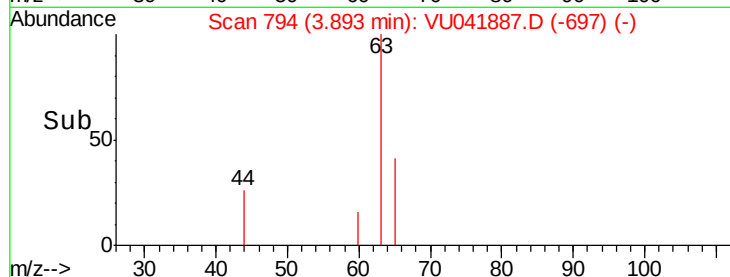
83 0.0 9.3 17.3#



Abundance Ion 63.10 (62.80 to 63.80): VU041887.D (-697) (-)

Ion 65.10 (64.80 to 65.80): VU041887.D (-697) (-)

Ion 83.05 (82.75 to 83.75): VU041887.D (-697) (-)



#22

cis-1,2-Dichloroethene

Concen: 9.523 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. 0.01 min

Lab File: VU041887.D

Acq: 07 Jan 2021 21:04

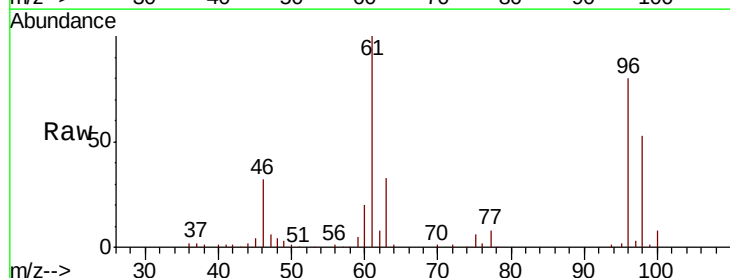
Tgt Ion: 96 Resp: 98863

Ion Ratio Lower Upper

96 100

61 124.7 88.8 165.0

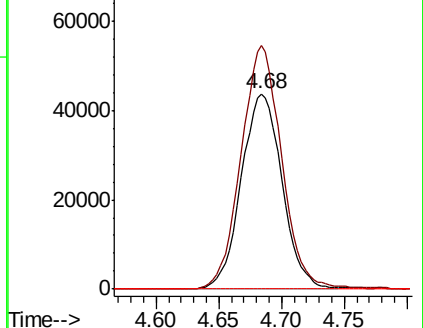
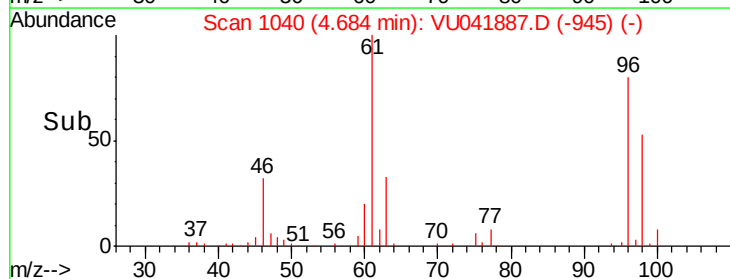
68 0.0 0.0 0.0

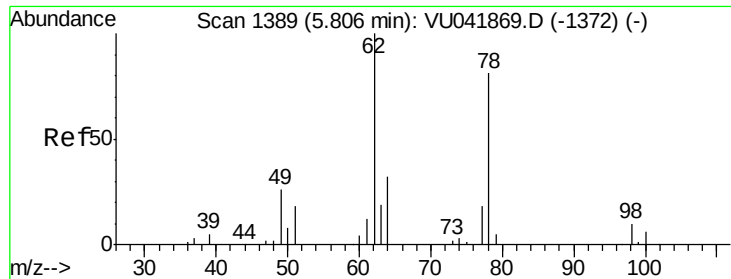


Abundance Ion 96.00 (95.70 to 96.70): VU041887.D (-945) (-)

Ion 61.05 (60.75 to 61.75): VU041887.D (-945) (-)

Ion 68.15 (67.85 to 68.85): VU041887.D (-945) (-)

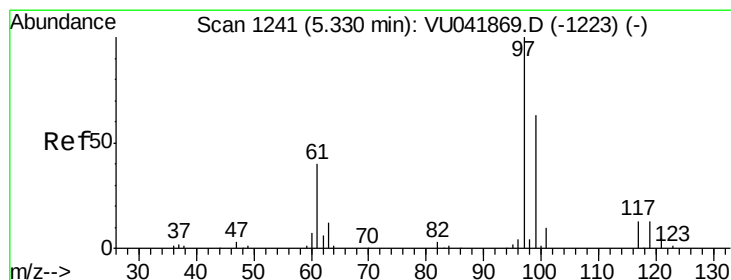
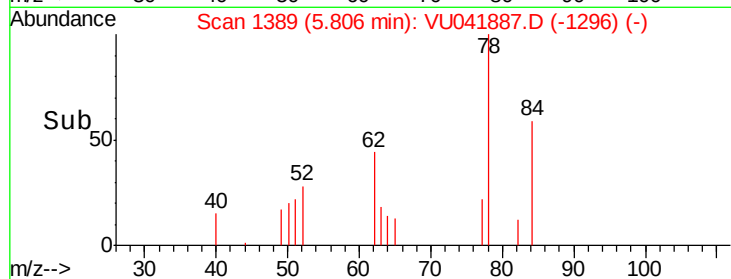
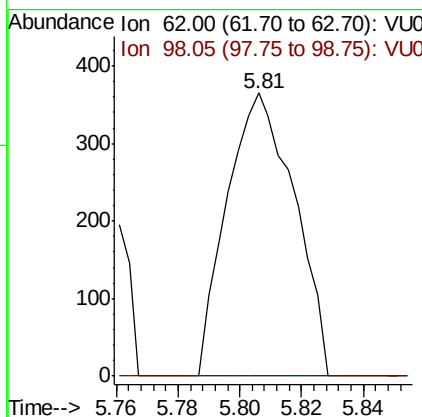
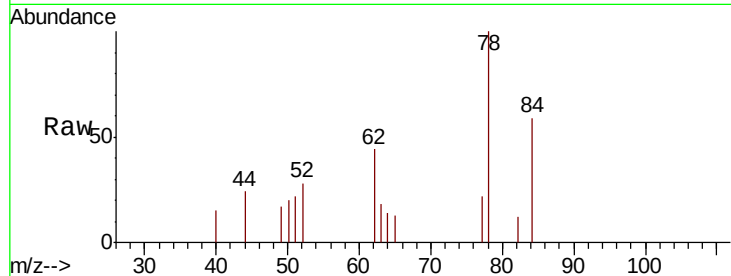




#27
 1,2-Dichloroethane
 Concen: 0.046 ug/L
 RT: 5.81 min Scan# 1389
 Delta R.T. -0.00 min
 Lab File: VU041887.D
 Acq: 07 Jan 2021 21:04

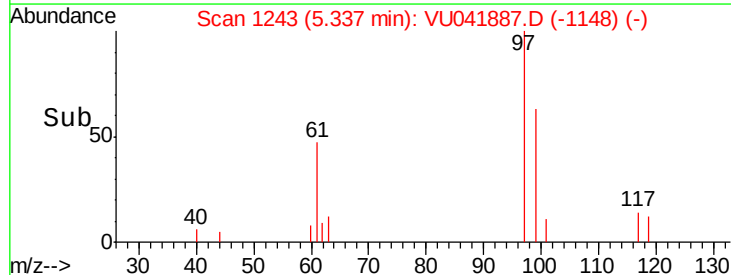
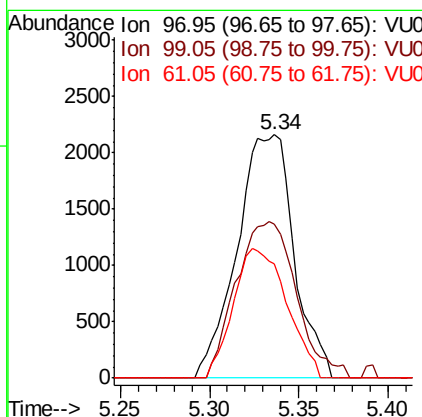
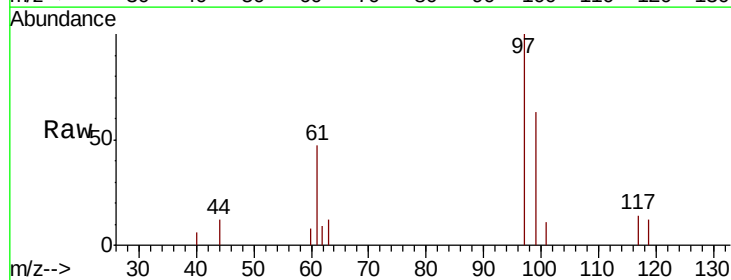
Instrument :
 MSVOA_U
 ClientSampled :

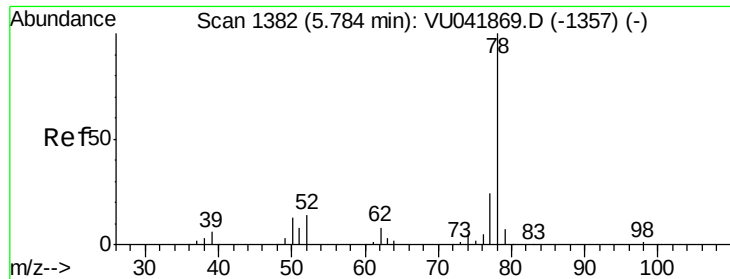
Tot Ion: 62 Resp: 554
 Ion Ratio Lower Upper
 62 100
 98 0.0 8.2 12.2#



#29
 1,1,1-Trichloroethane
 Concen: 0.316 ug/L
 RT: 5.34 min Scan# 1243
 Delta R.T. 0.01 min
 Lab File: VU041887.D
 Acq: 07 Jan 2021 21:04

Tgt Ion: 97 Resp: 4813
 Ion Ratio Lower Upper
 97 100
 99 68.1 51.3 76.9
 61 50.2 36.5 54.7

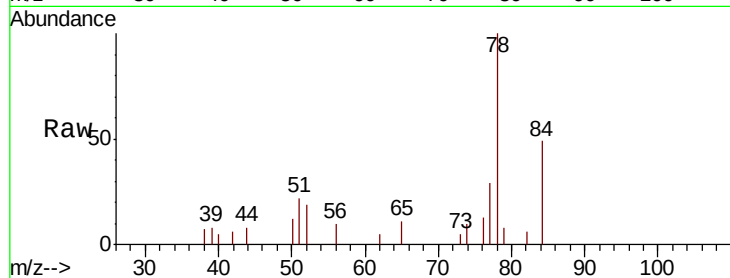




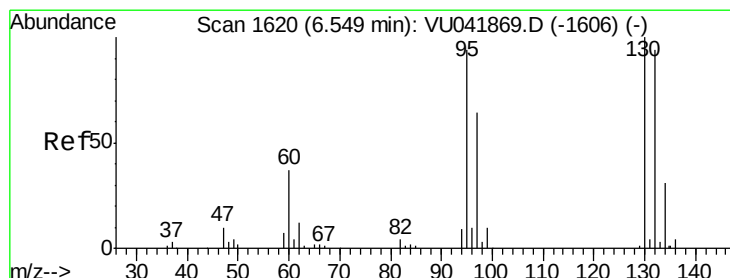
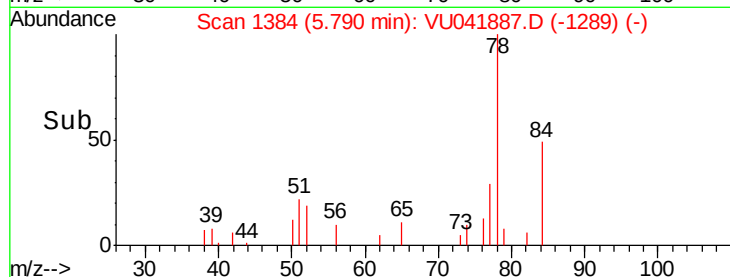
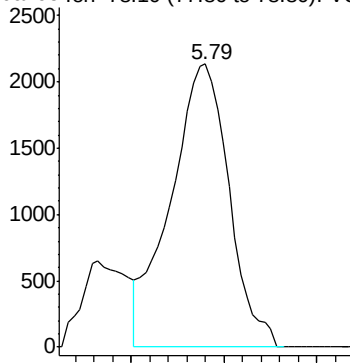
#33
Benzene
Concen: 0.110 ug/L
RT: 5.79 min Scan# 1384
Delta R.T. 0.01 min
Lab File: VU041887.D
Acq: 07 Jan 2021 21:04

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion: 78 Resp: 4687



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34
Trichloroethene
Concen: 72.053 ug/L
RT: 6.55 min Scan# 1621
Delta R.T. 0.00 min
Lab File: VU041887.D
Acq: 07 Jan 2021 21:04

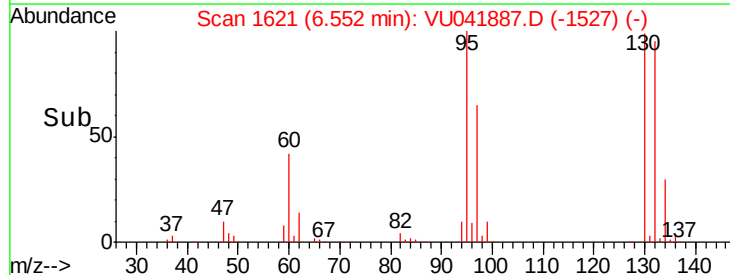
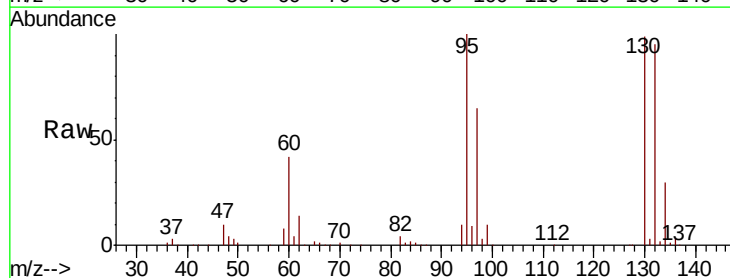
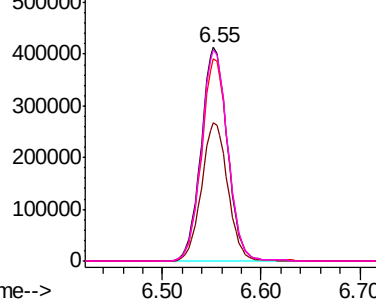
Tgt Ion: 95 Resp: 768501
Ion Ratio Lower Upper
95 100
97 64.7 43.9 81.5
132 94.7 63.1 117.3
130 98.6 67.4 125.2

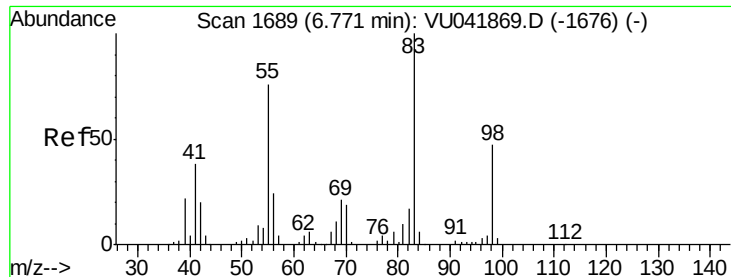
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): VU0

Ion 129.95 (129.65 to 130.65): VU0

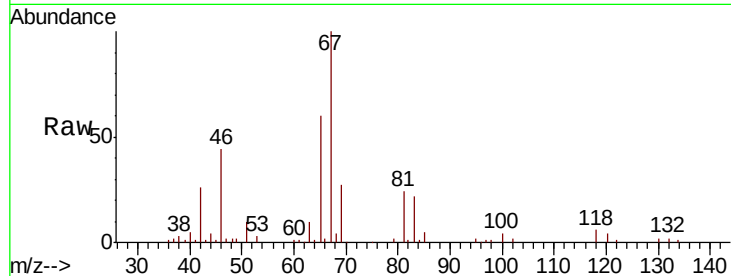




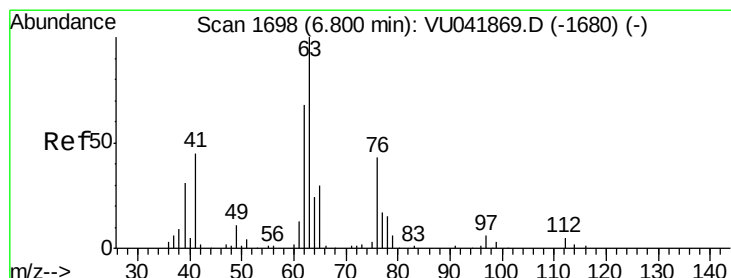
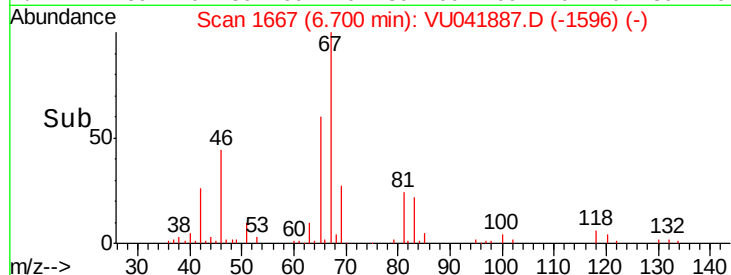
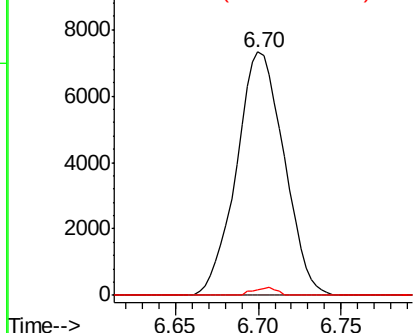
#35
Methylvlcyclohexane
Concen: 0.848 ug/L
RT: 6.70 min Scan# 1667
Delta R.T. -0.07 min
Lab File: VU041887.D
Acq: 07 Jan 2021 21:04

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	83.15	Resp:	14617
Ion	Ratio	Lower	Upper
83	100		
55	0.0	61.2	91.8#
98	0.0	36.6	54.8#

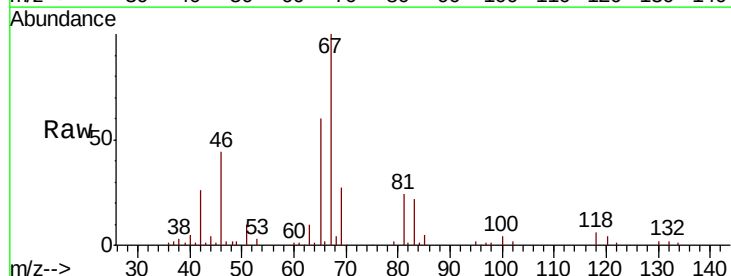


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

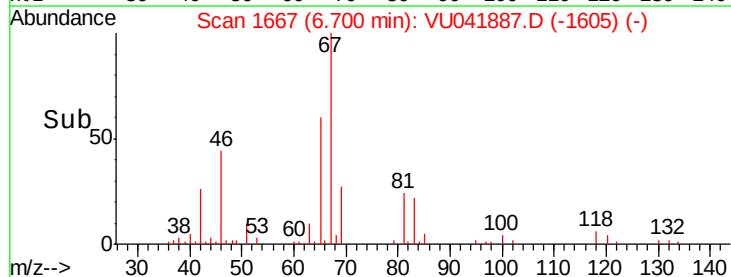
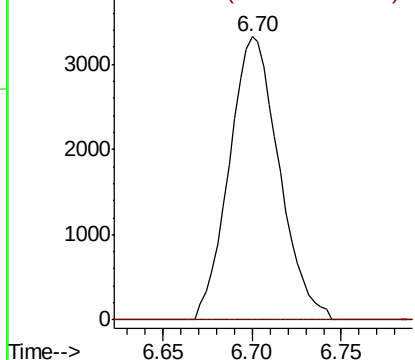


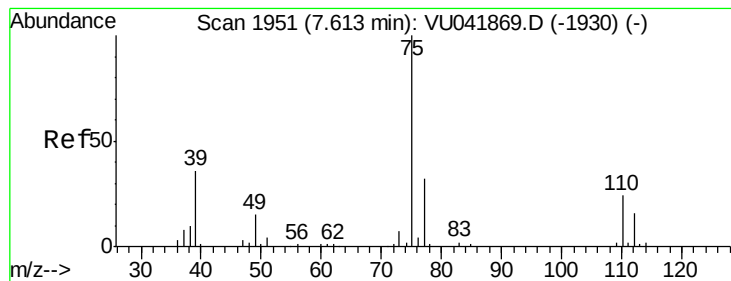
#37
1,2-Dichloropropane
Concen: 0.596 ug/L
RT: 6.70 min Scan# 1667
Delta R.T. -0.10 min
Lab File: VU041887.D
Acq: 07 Jan 2021 21:04

Tgt Ion	63	Resp:	6472
Ion	Ratio	Lower	Upper
63	100		
112	0.0	3.1	4.7#



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



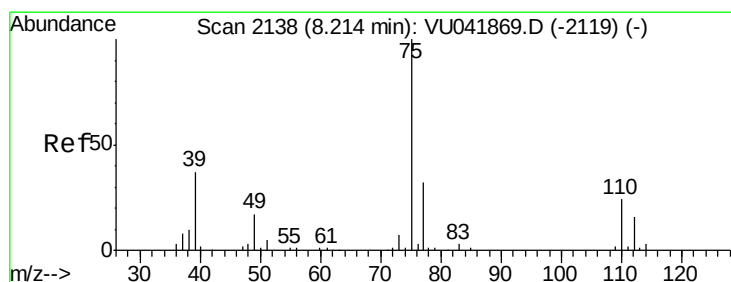
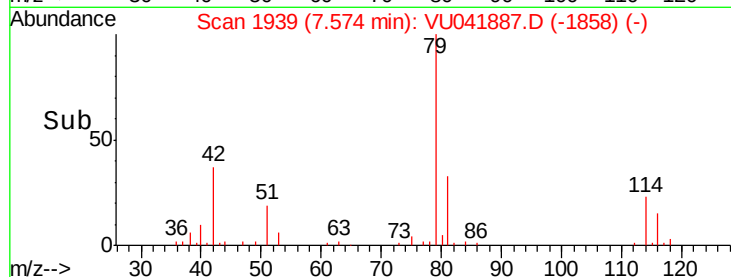
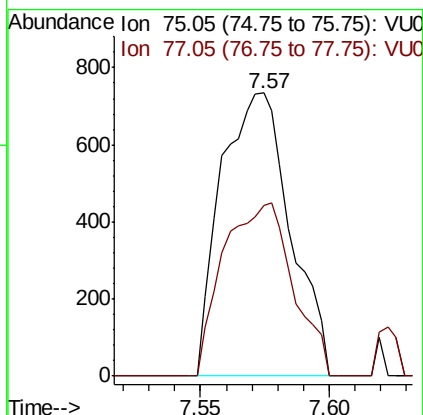
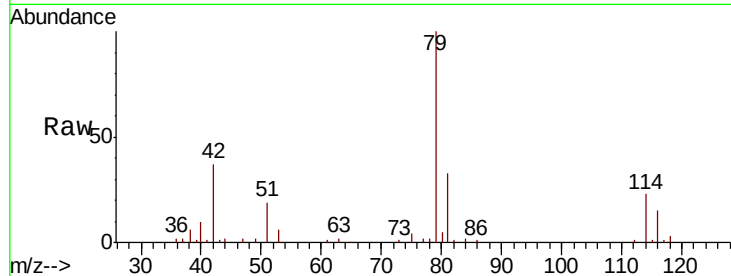


#39

cis-1,3-Dichloropropene
Concen: 0.086 ug/L
RT: 7.57 min Scan# 1939
Delta R.T. -0.04 min
Lab File: VU041887.D
Acq: 07 Jan 2021 21:04

Instrument :
MSVOA_U
ClientSampleId :

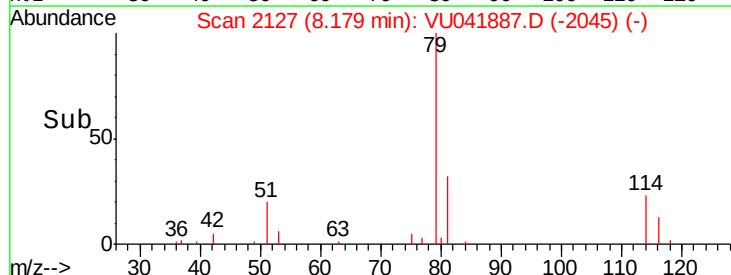
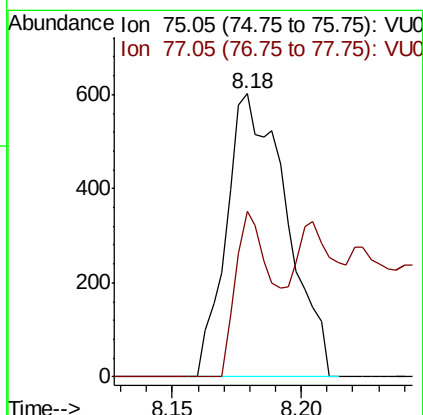
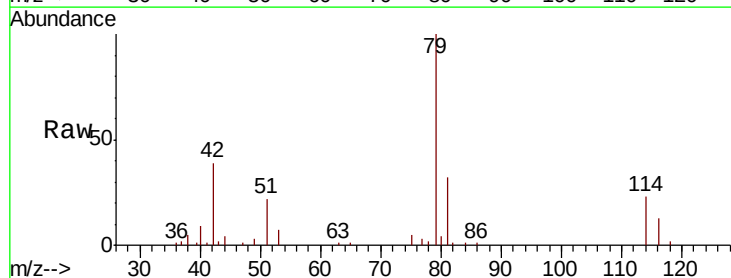
Tot Ion: 75 Resp: 1376
Ion Ratio Lower Upper
75 100
77 60.5 22.3 41.3#

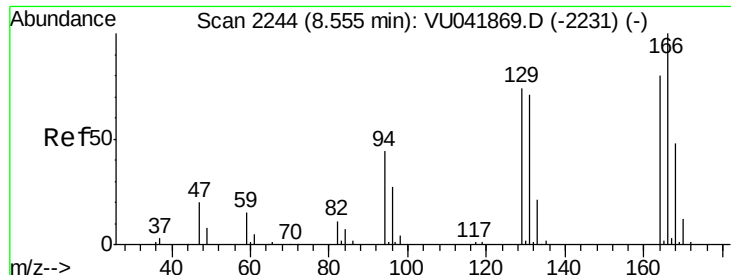


#44

trans-1,3-Dichloropropene
Concen: 0.068 ug/L
RT: 8.18 min Scan# 2127
Delta R.T. -0.04 min
Lab File: VU041887.D
Acq: 07 Jan 2021 21:04

Tgt Ion: 75 Resp: 975
Ion Ratio Lower Upper
75 100
77 58.6 23.8 44.2#

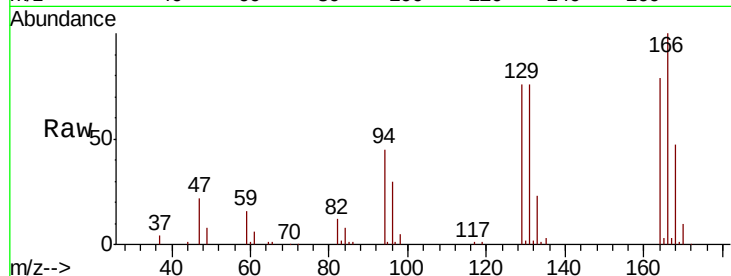




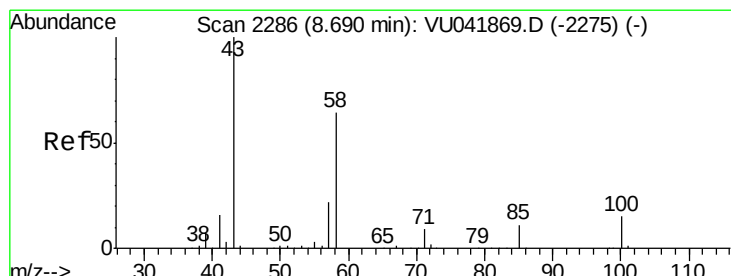
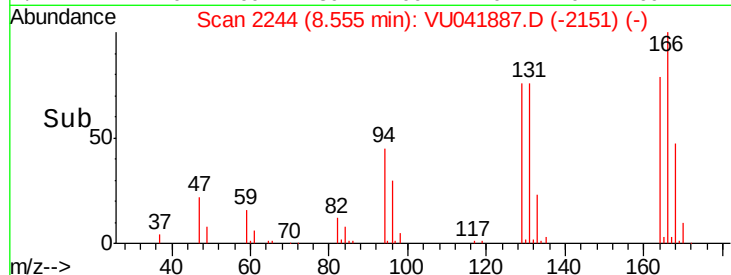
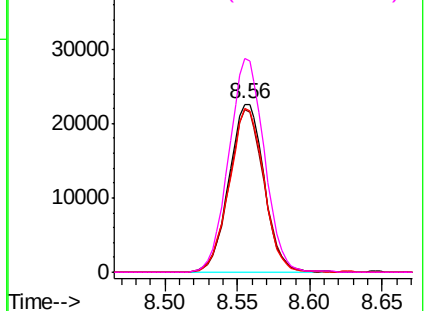
#47
Tetrachloroethene
Concen: 5.089 ug/L
RT: 8.56 min Scan# 2244
Delta R.T. -0.00 min
Lab File: VU041887.D
Acq: 07 Jan 2021 21:04

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:164 Resp: 37995
Ion Ratio Lower Upper
164 100
129 96.4 72.2 134.0
131 97.1 66.9 124.3
166 127.0 89.6 166.4

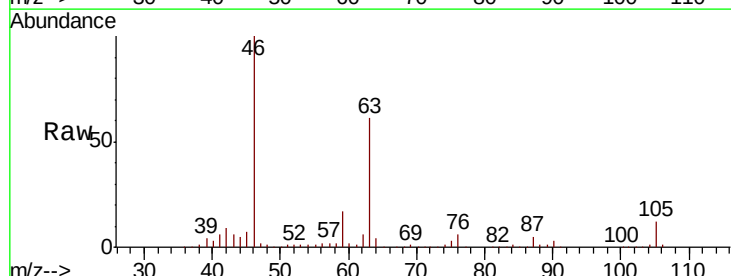


Abundance Ion 163.90 (163.60 to 164.60): V
Ion 128.95 (128.65 to 129.65): V
Ion 130.95 (130.65 to 131.65): V
Ion 165.90 (165.60 to 166.60): V

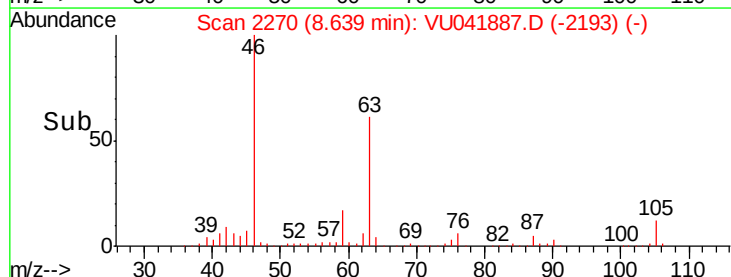
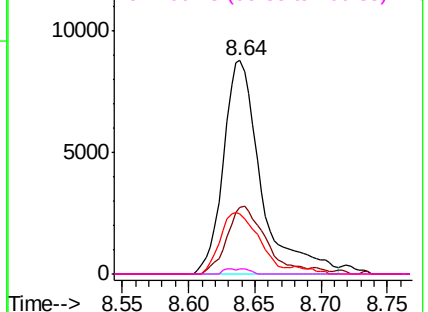


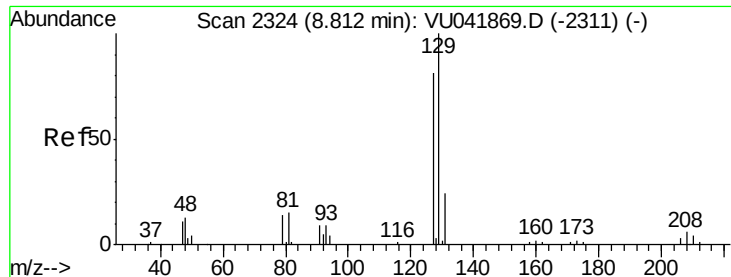
#48
2-Hexanone
Concen: 3.079 ug/L
RT: 8.64 min Scan# 2270
Delta R.T. -0.05 min
Lab File: VU041887.D
Acq: 07 Jan 2021 21:04

Tgt Ion: 43 Resp: 17309
Ion Ratio Lower Upper
43 100
58 32.4 47.9 71.9#
57 29.5 16.5 24.7#
100 0.8 9.4 14.2#



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

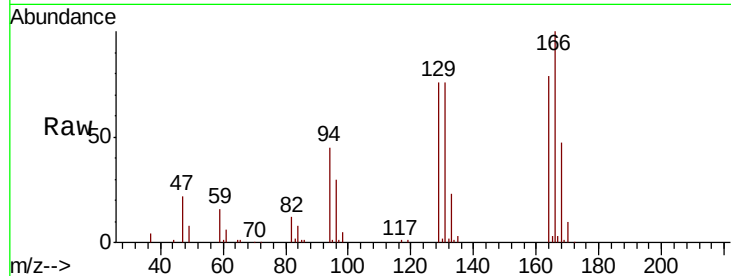




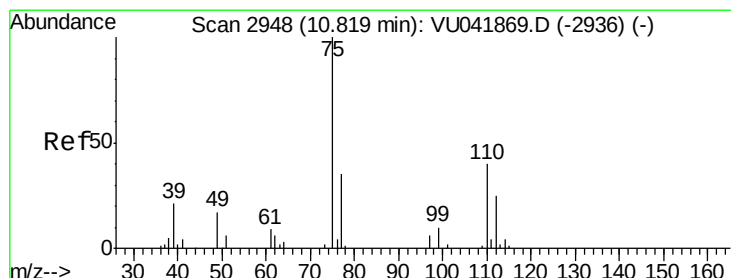
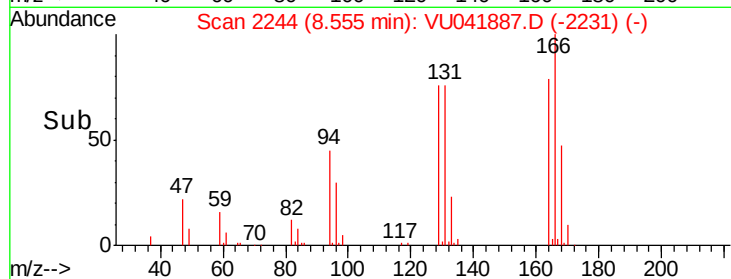
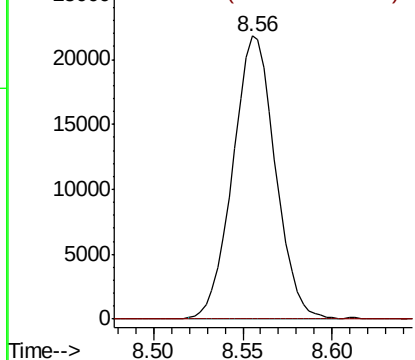
#49
 Dibromochloromethane
 Concen: 3.937 ug/L
 RT: 8.56 min Scan# 2244
 Delta R.T. -0.26 min
 Lab File: VU041887.D
 Acq: 07 Jan 2021 21:04

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion:129 Resp: 36305
 Ion Ratio Lower Upper
 129 100
 127 0.0 54.7 101.7#

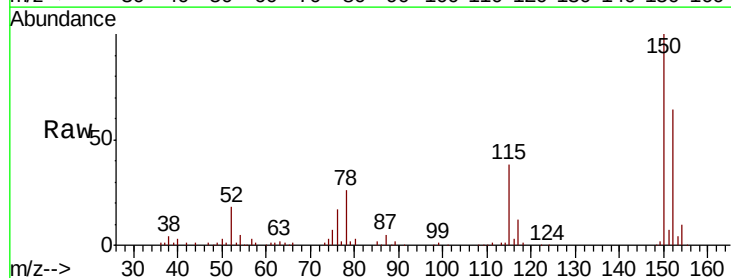


Abundance Ion 128.95 (128.65 to 129.65): V
 Ion 126.90 (126.60 to 127.60): V

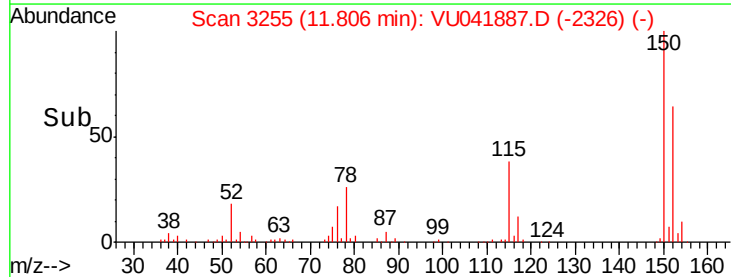
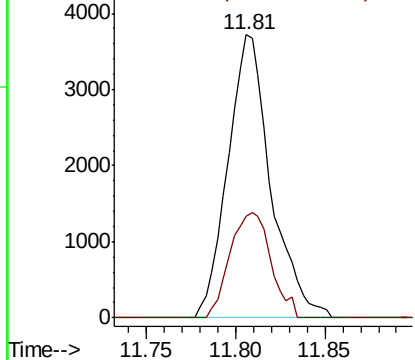


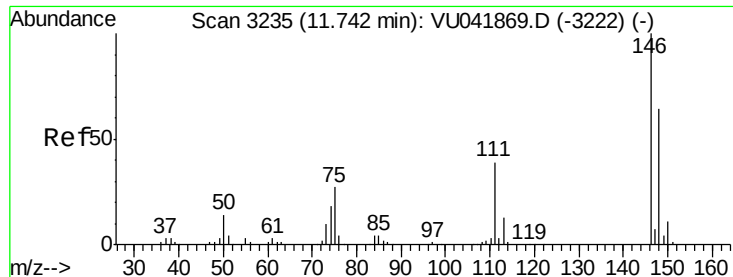
#59
 1,2,3-Trichloropropane
 Concen: 0.765 ug/L
 RT: 11.81 min Scan# 3255
 Delta R.T. 0.99 min
 Lab File: VU041887.D
 Acq: 07 Jan 2021 21:04

Tgt Ion: 75 Resp: 6235
 Ion Ratio Lower Upper
 75 100
 77 35.5 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VU0
 Ion 77.00 (76.70 to 77.70): VU0





#62

1,3-Dichlorobenzene

Concen: 0.079 ug/L

RT: 11.83 min Scan# 3263

Delta R.T. 0.09 min

Lab File: VU041887.D

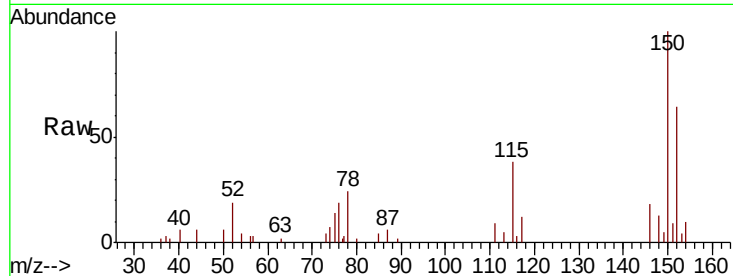
Acq: 07 Jan 2021 21:04

Instrument :

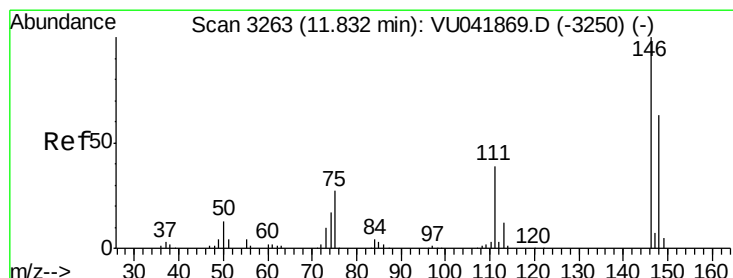
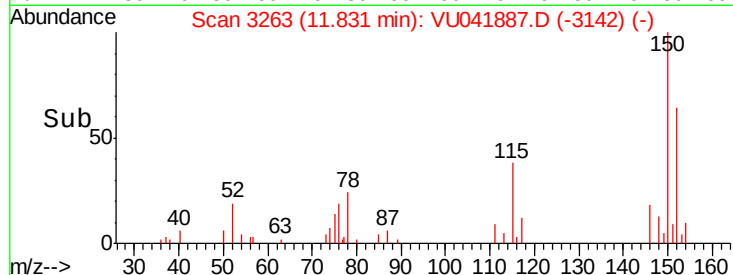
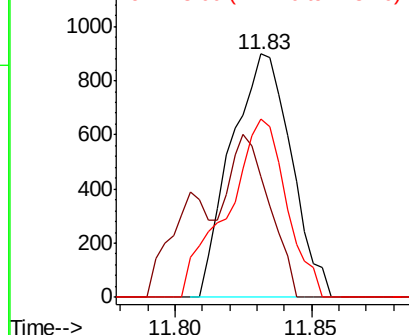
MSVOA_U

ClientSampleId :

Tot Ion:	146	Resp:	1373
Ion	Ratio	Lower	Upper
146	100		
111	49.5	30.0	55.8
148	73.4	44.9	83.3



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



#63

1,4-Dichlorobenzene

Concen: 0.078 ug/L

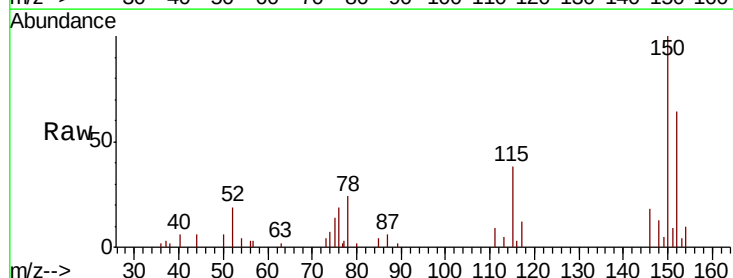
RT: 11.83 min Scan# 3263

Delta R.T. -0.00 min

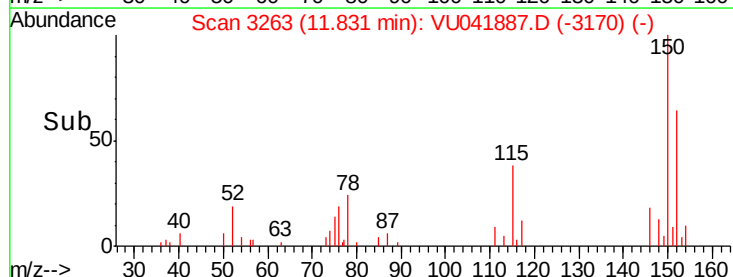
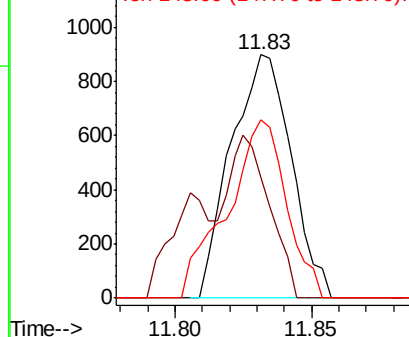
Lab File: VU041887.D

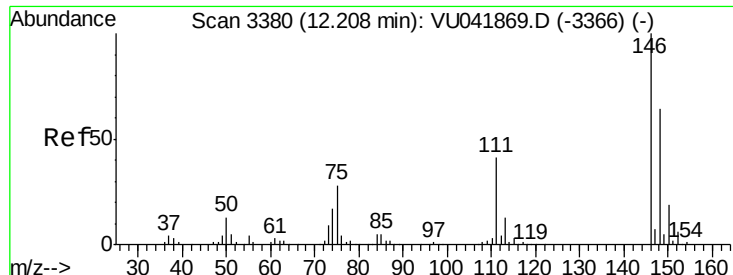
Acq: 07 Jan 2021 21:04

Tgt Ion:	146	Resp:	1373
Ion	Ratio	Lower	Upper
146	100		
111	49.5	27.9	51.9
148	73.4	45.0	83.6



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

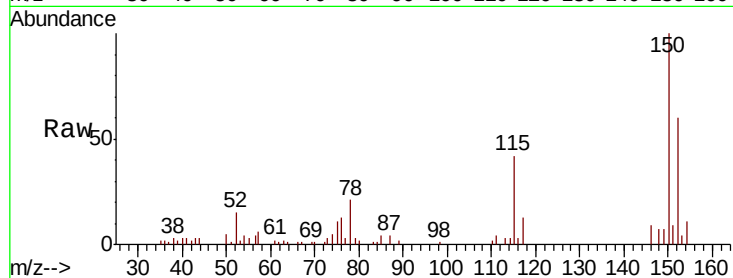




#65
 1,2-Dichlorobenzene
 Concen: 0.092 ug/L
 RT: 12.21 min Scan# 3380
 Delta R.T. -0.00 min
 Lab File: VU041887.D
 Acq: 07 Jan 2021 21:04

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:146 Resp: 1565
 Ion Ratio Lower Upper
 146 100
 111 42.4 35.0 52.6
 148 78.7 51.0 76.6#



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

