

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U100220\
 Data File : VU040462.D
 Acq On : 02 Oct 2020 15:42
 Operator : SY/MD
 Sample : L4240-09DL 10X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 03 00:18:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR092920WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Oct 03 00:09:31 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	124460	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	123448	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	59176	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	31264	5.07	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	101.40%
7) Chloroethane-d5	1.92	69	25576	4.74	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	94.80%
11) 1,1-Dichloroethene-d2	2.58	63	47650	3.22	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	64.40%
20) 2-Butanone-d5	4.65	46	134850	44.06	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	88.12%
24) Chloroform-d	5.08	84	64118	4.37	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.40%
26) 1,2-Dichloroethane-d4	5.72	65	40366	4.52	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.40%
32) Benzene-d6	5.74	84	121761	4.91	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.20%
36) 1,2-Dichloropropane-d6	6.71	67	40735	4.49	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	89.80%
41) Toluene-d8	7.91	98	107280	4.98	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.60%
43) trans-1,3-Dichloropropene-	8.19	79	16465	4.44	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.80%
46) 2-Hexanone-d5	8.64	63	89937	41.27	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	82.54%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	36829	4.17	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	83.40%
64) 1,2-Dichlorobenzene-d4	12.19	152	44698	4.98	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
8) Chloroethane	1.94	64	9130	1.281	ug/L #	70
15) Methyl Acetate	3.10	43	921248	149.981	ug/L #	56
16) Methylene chloride	3.06	84	2826	0.237	ug/L #	1
19) 1,1-Dichloroethane	3.89	63	1860	0.092	ug/L #	89
21) 2-Butanone	4.67	43	7109	1.737	ug/L #	51
30) Cyclohexane	5.40	56	50317	2.884	ug/L	97
33) Benzene	5.79	78	1804	0.044	ug/L	100
35) Methylcyclohexane	6.77	83	3199	0.199	ug/L	94
37) 1,2-Dichloropropane	6.70	63	4941	0.429	ug/L #	92
39) cis-1,3-Dichloropropene	7.57	75	1433	0.093	ug/L #	81
44) trans-1,3-Dichloropropene	8.19	75	829	0.058	ug/L	99
45) 1,1,2-Trichloroethane	8.37	97	2206	0.273	ug/L #	19
48) 2-Hexanone	8.64	43	12010	1.806	ug/L #	73
51) Chlorobenzene	9.45	112	207393	7.558	ug/L	99
59) 1,2,3-Trichloropropane	11.74	75	7569	0.906	ug/L #	43
62) 1,3-Dichlorobenzene	11.74	146	21862	1.116	ug/L	98
63) 1,4-Dichlorobenzene	11.83	146	40022	1.964	ug/L	98

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Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Oct 03 00:09:31 2020
Response via : Initial Calibration

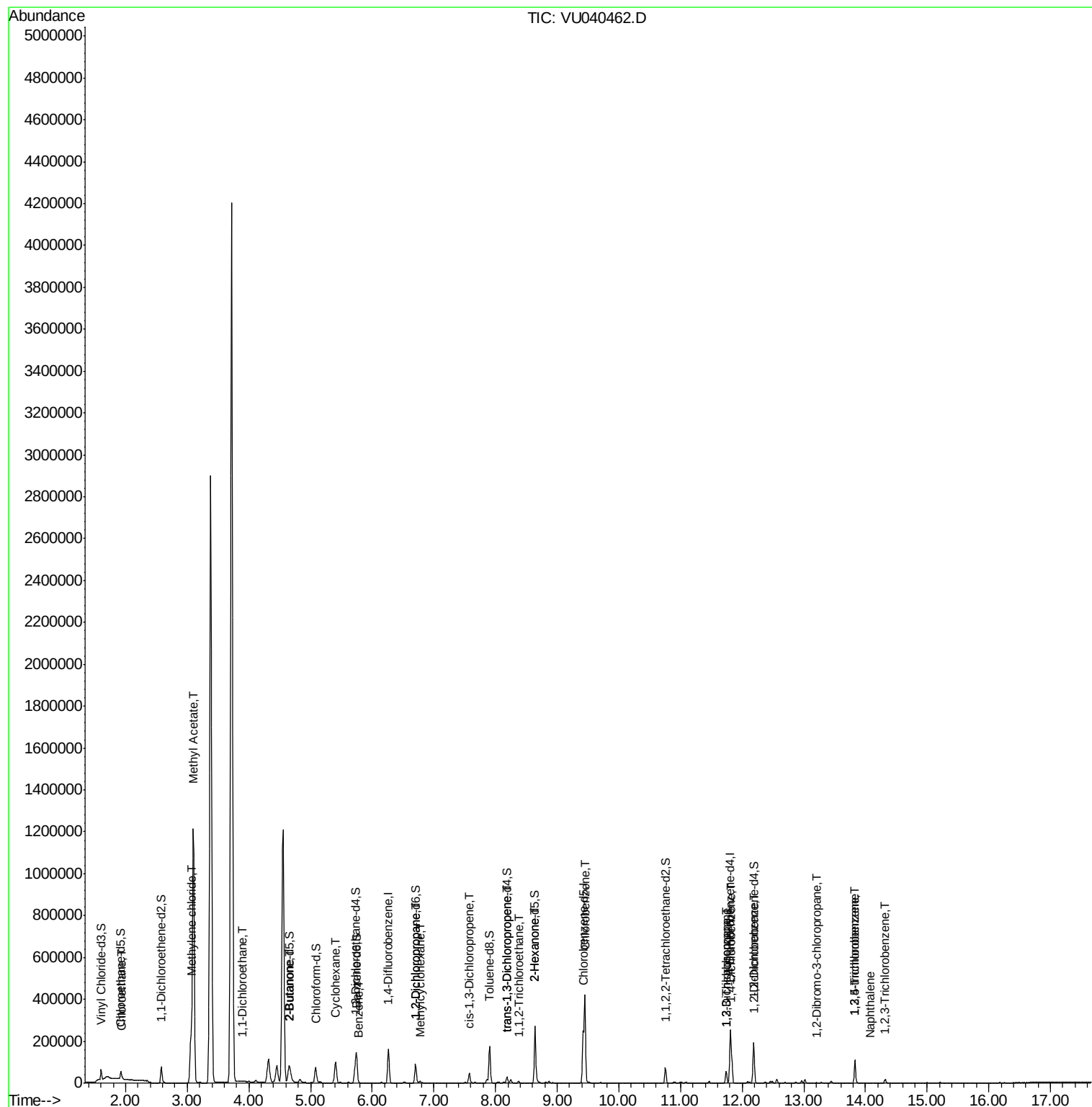
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,2-Dichlorobenzene	12.21	146	3001	0.158	ug/L	93
66) 1,2-Dibromo-3-chloropropan	13.21	75	125	0.073	ug/L #	10
67) 1,3,5-Trichlorobenzene	13.83	180	29099	2.081	ug/L	98
68) 1,2,4-trichlorobenzene	13.83	180	29099	2.589	ug/L	99
69) Naphthalene	14.08	128	1096	0.057	ug/L #	77
70) 1,2,3-Trichlorobenzene	14.32	180	5505	0.535	ug/L	95

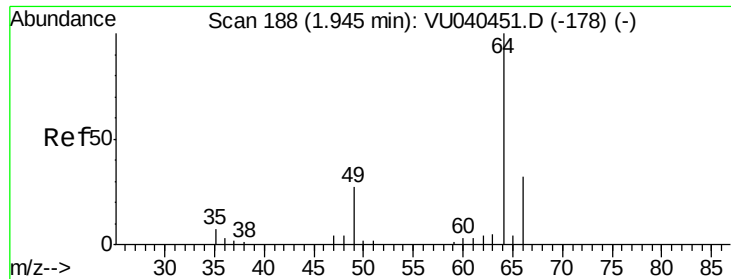
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#8

Chloroethane

Concen: 1.281 ug/L

RT: 1.94 min Scan# 188

Delta R.T. -0.00 min

Lab File: VU040462.D

Acq: 02 Oct 2020 15:42

Instrument :

MSVOA_U

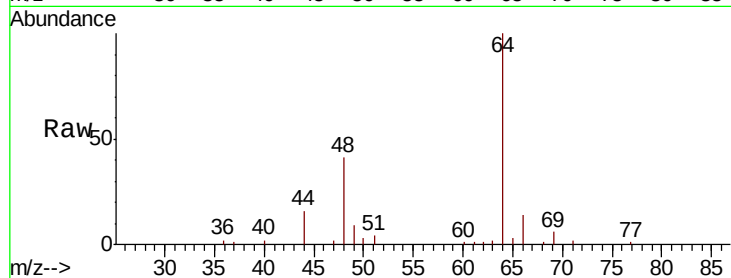
ClientSampleId :

Tot Ion: 64 Resp: 9130

Ion Ratio Lower Upper

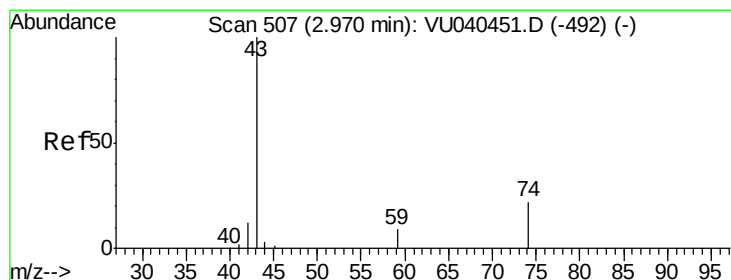
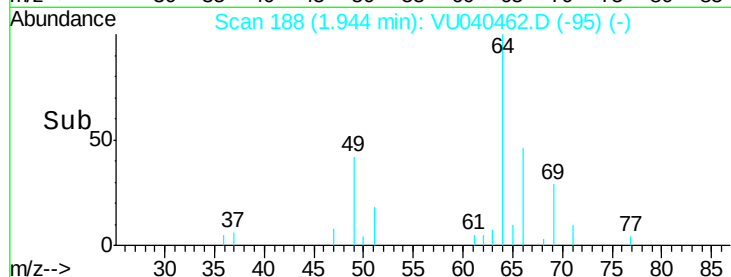
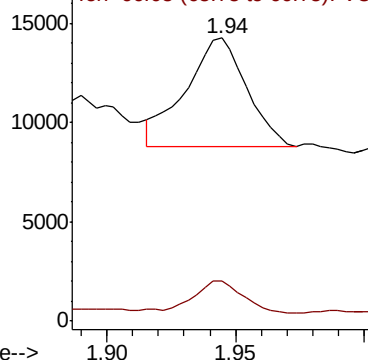
64 100

66 14.3 21.3 39.6#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0



#15

Methyl Acetate

Concen: 149.981 ug/L

RT: 3.10 min Scan# 547

Delta R.T. 0.13 min

Lab File: VU040462.D

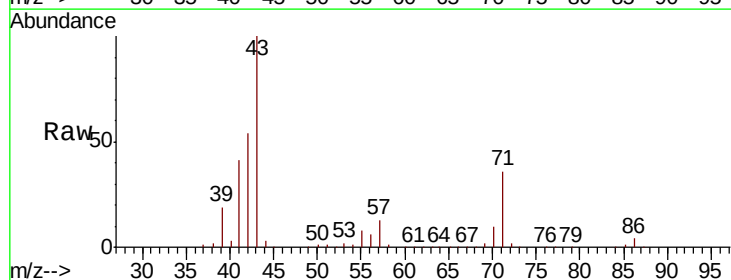
Acq: 02 Oct 2020 15:42

Tgt Ion: 43 Resp: 921248

Ion Ratio Lower Upper

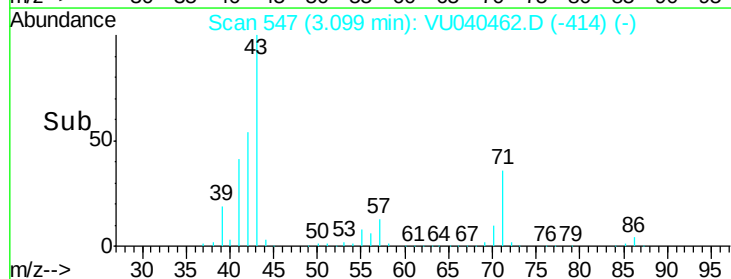
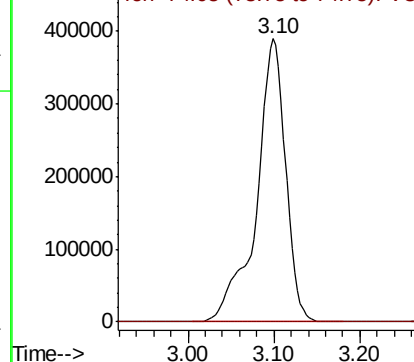
43 100

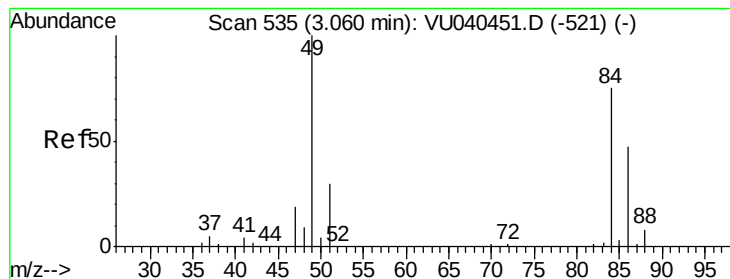
74 0.0 16.3 24.5#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0





#16

Methylene chloride

Concen: 0.237 ug/L

RT: 3.06 min Scan# 536

Delta R.T. 0.00 min

Lab File: VU040462.D

Acq: 02 Oct 2020 15:42

Instrument :

MSVOA_U

ClientSampled :

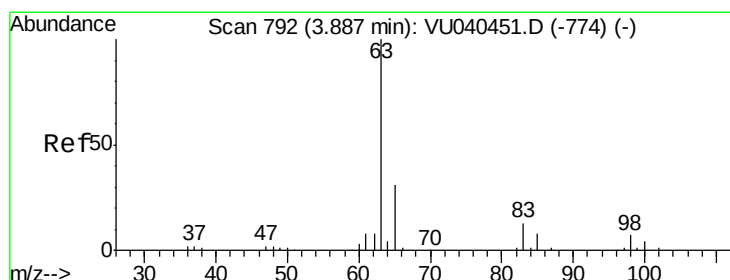
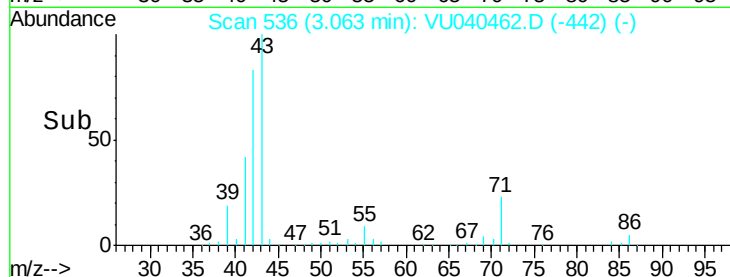
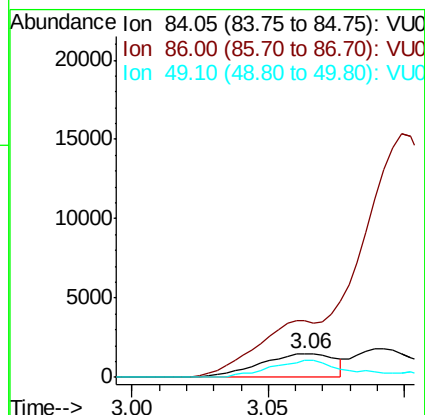
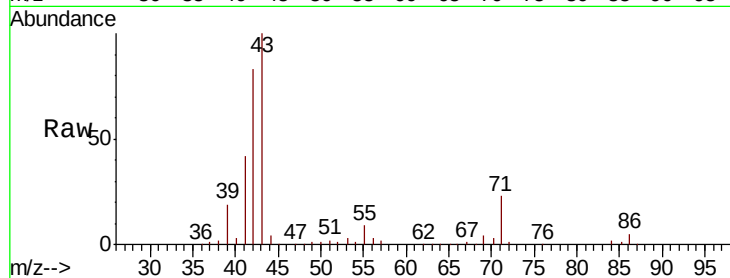
Tot Ion: 84 Resp: 2826

Ion Ratio Lower Upper

84 100

86 240.6 44.4 82.5#

49 69.6 92.2 171.2#



#19

1,1-Dichloroethane

Concen: 0.092 ug/L

RT: 3.89 min Scan# 794

Delta R.T. 0.01 min

Lab File: VU040462.D

Acq: 02 Oct 2020 15:42

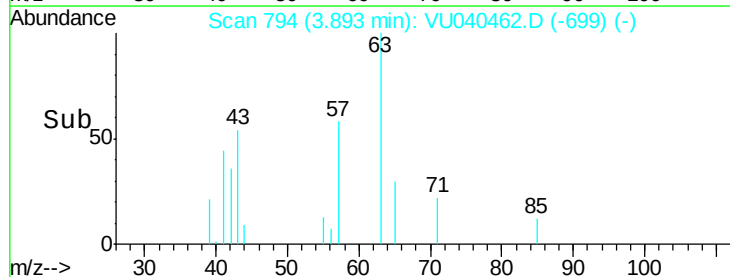
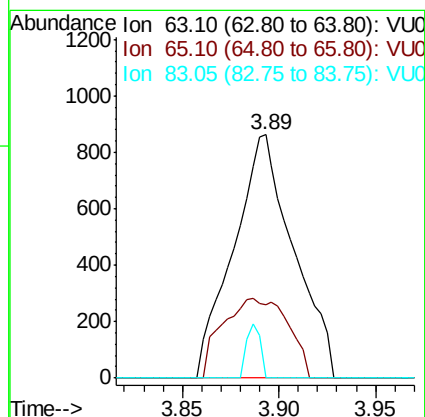
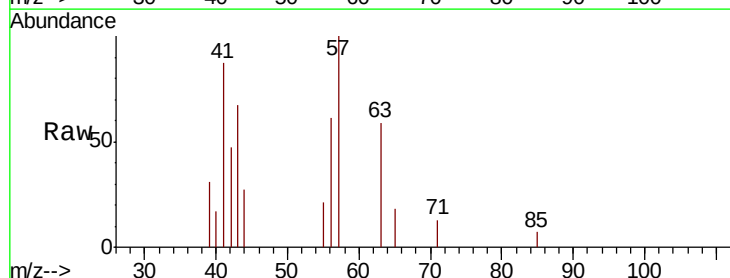
Tgt Ion: 63 Resp: 1860

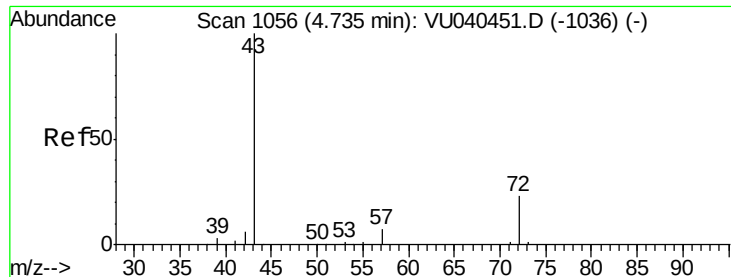
Ion Ratio Lower Upper

63 100

65 30.2 21.7 40.3

83 0.0 9.1 16.9#





#21

2-Butanone

Concen: 1.737 ug/L

RT: 4.67 min Scan# 1035

Delta R.T. -0.07 min

Lab File: VU040462.D

Acq: 02 Oct 2020 15:42

Instrument :

MSVOA_U

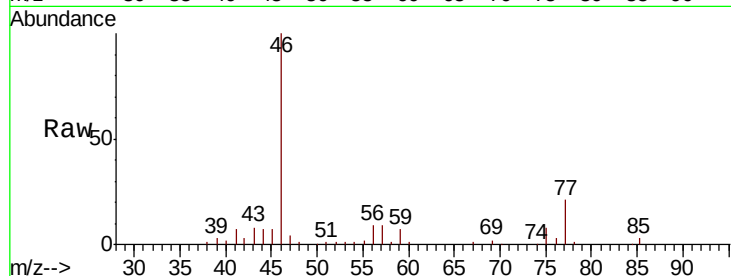
ClientSampled :

Tot Ion: 43 Resp: 7109

Ion Ratio Lower Upper

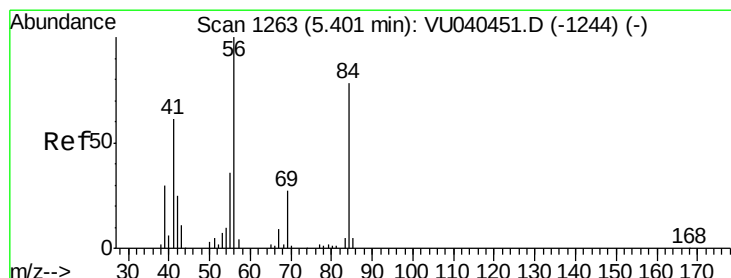
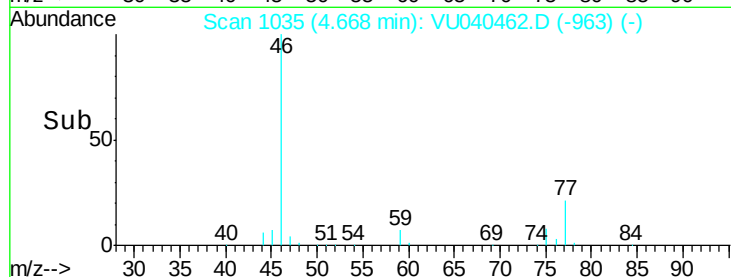
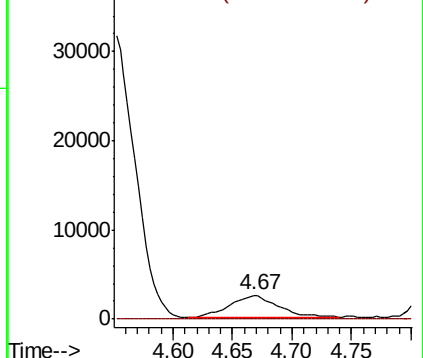
43 100

72 0.0 12.0 36.1#



Abundance Ion 43.05 (42.75 to 43.75): VU040462.D (-963) (-)

Ion 72.10 (71.80 to 72.80): VU040462.D (-963) (-)



#30

Cyclohexane

Concen: 2.884 ug/L

RT: 5.40 min Scan# 1264

Delta R.T. 0.00 min

Lab File: VU040462.D

Acq: 02 Oct 2020 15:42

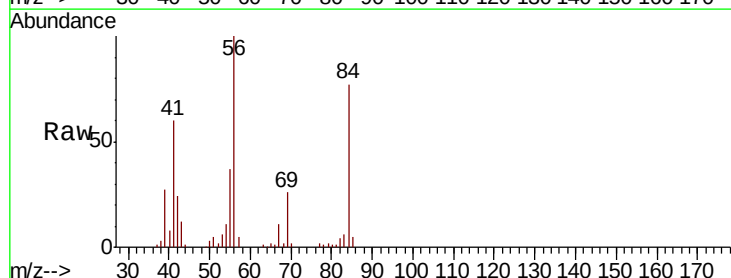
Tgt Ion: 56 Resp: 50317

Ion Ratio Lower Upper

56 100

69 28.3 23.3 34.9

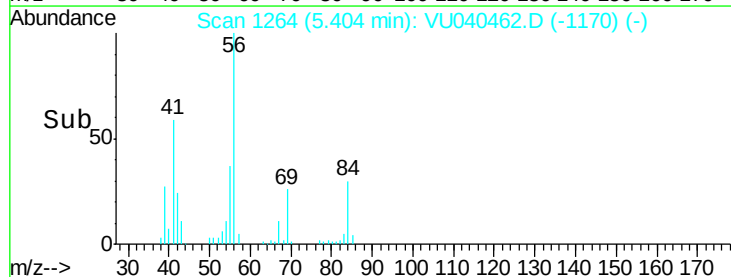
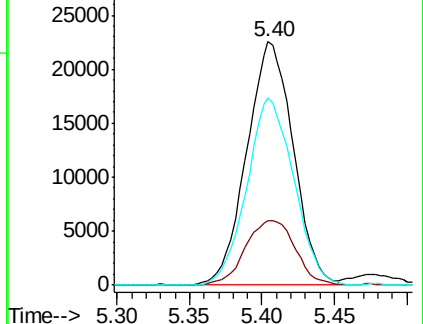
84 77.6 64.2 96.4

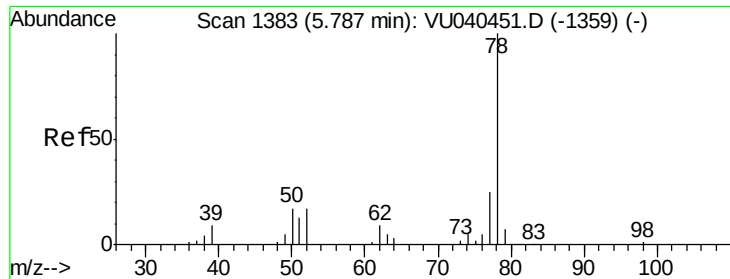


Abundance Ion 56.10 (55.80 to 56.80): VU040462.D (-1170) (-)

Ion 69.15 (68.85 to 69.85): VU040462.D (-1170) (-)

Ion 84.15 (83.85 to 84.85): VU040462.D (-1170) (-)

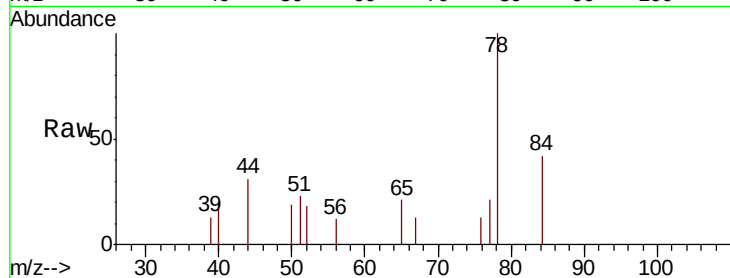




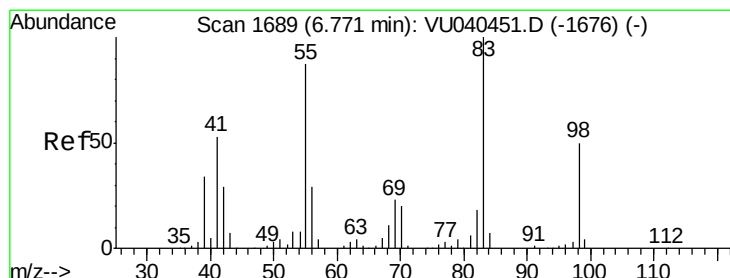
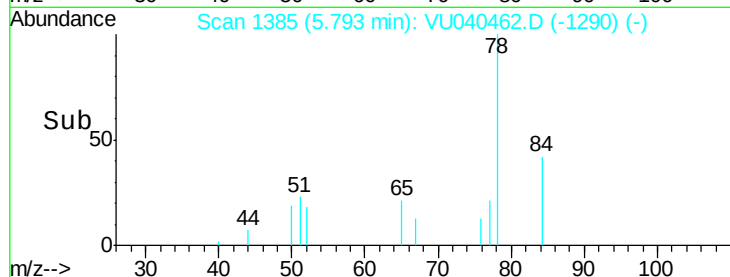
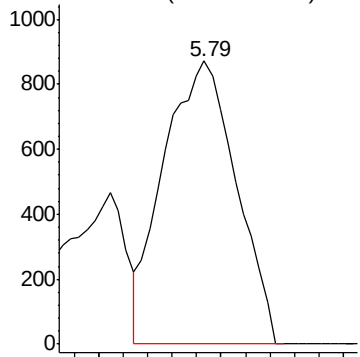
#33
Benzene
Concen: 0.044 ug/L
RT: 5.79 min Scan# 1385
Delta R.T. 0.01 min
Lab File: VU040462.D
Acq: 02 Oct 2020 15:42

Instrument :
MSVOA_U
ClientSampled :

Tgt Ion: 78 Resp: 1804

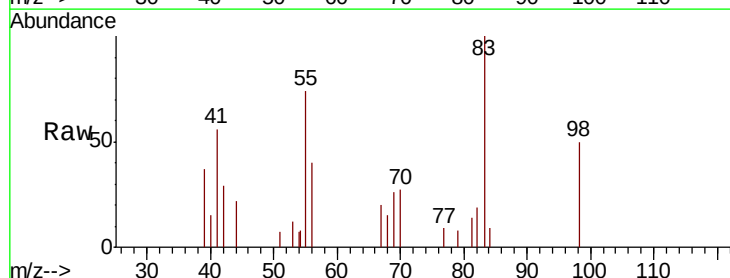


Abundance Ion 78.10 (77.80 to 78.80): VU0



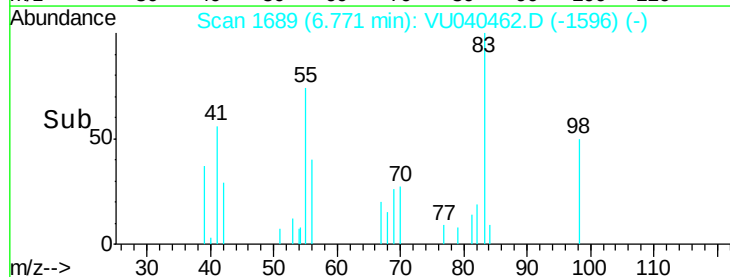
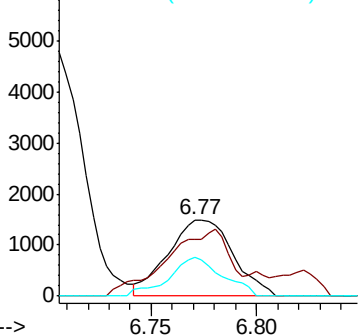
#35
Methylcyclohexane
Concen: 0.199 ug/L
RT: 6.77 min Scan# 1689
Delta R.T. -0.00 min
Lab File: VU040462.D
Acq: 02 Oct 2020 15:42

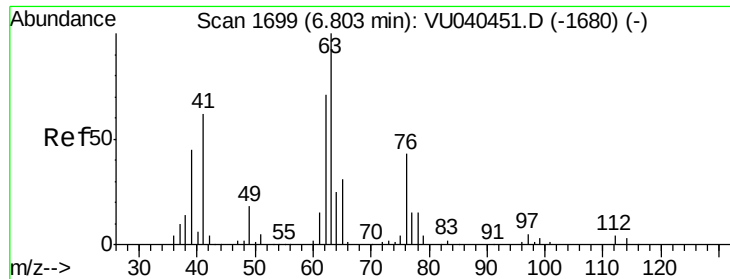
Tgt Ion: 83 Resp: 3199
Ion Ratio Lower Upper
83 100
55 85.2 71.4 107.2
98 41.4 38.5 57.7



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

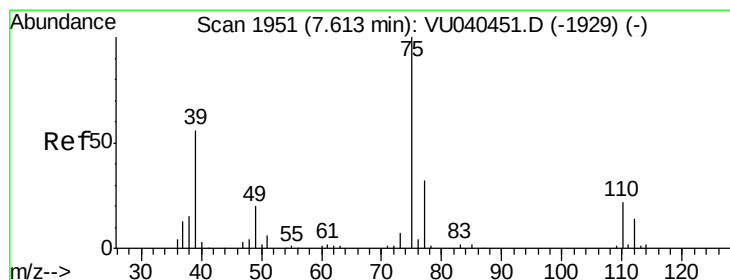
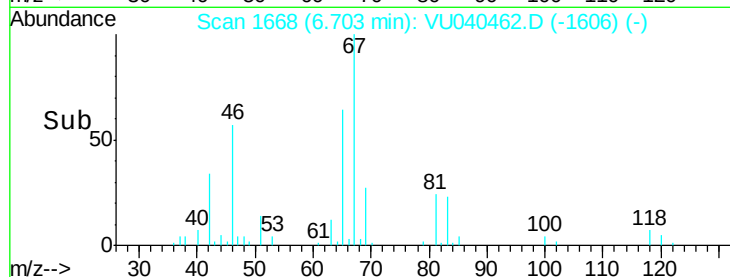
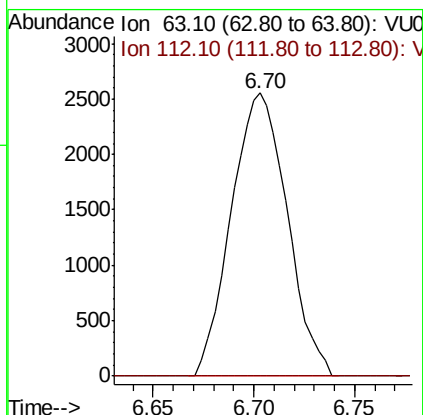
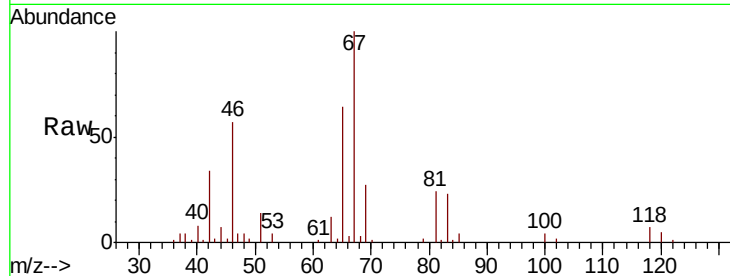




#37
 1,2-Dichloropropane
 Concen: 0.429 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.10 min
 Lab File: VU040462.D
 Acq: 02 Oct 2020 15:42

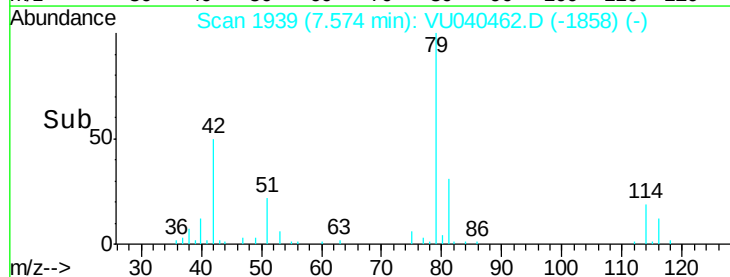
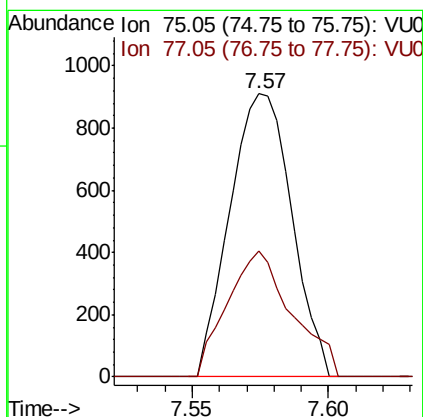
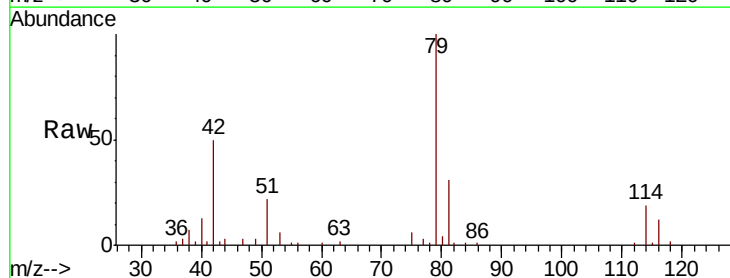
Instrument :
 MSVOA_U
 ClientSampleId :

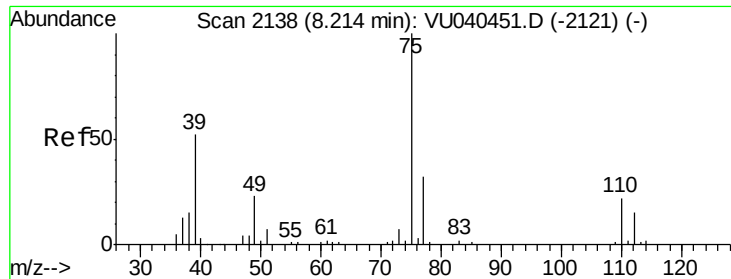
Tot Ion: 63 Resp: 4941
 Ion Ratio Lower Upper
 63 100
 112 1.4 3.2 4.8#



#39
 cis-1,3-Dichloropropene
 Concen: 0.093 ug/L
 RT: 7.57 min Scan# 1939
 Delta R.T. -0.04 min
 Lab File: VU040462.D
 Acq: 02 Oct 2020 15:42

Tgt Ion: 75 Resp: 1433
 Ion Ratio Lower Upper
 75 100
 77 44.6 23.5 43.7#





#44

trans-1,3-Dichloropropene

Concen: 0.058 ug/L

RT: 8.19 min Scan# 2130

Delta R.T. -0.03 min

Lab File: VU040462.D

Acq: 02 Oct 2020 15:42

Instrument :

MSVOA_U

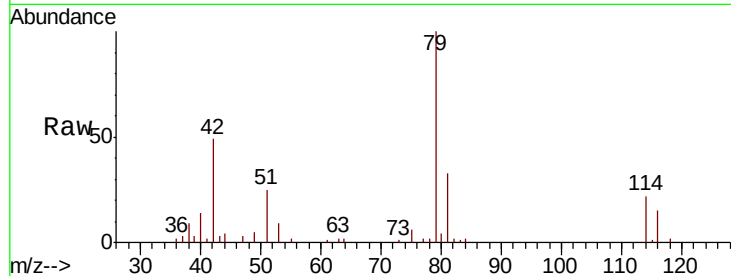
ClientSampleId :

Tot Ion: 75 Resp: 829

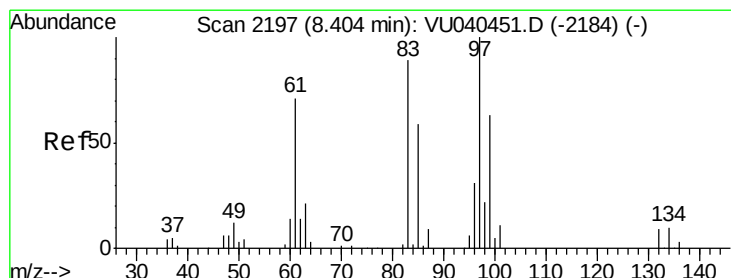
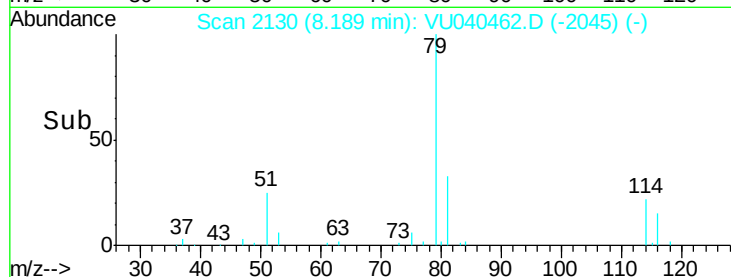
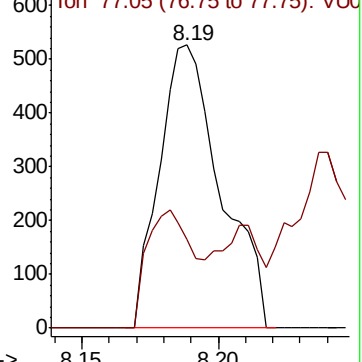
Ion Ratio Lower Upper

75 100

77 31.3 22.3 41.3



Abundance Ion 75.05 (74.75 to 75.75): VU040451.D (-2121) (-)



#45

1,1,2-Trichloroethane

Concen: 0.273 ug/L

RT: 8.37 min Scan# 2187

Delta R.T. -0.03 min

Lab File: VU040462.D

Acq: 02 Oct 2020 15:42

Tgt Ion: 97 Resp: 2206

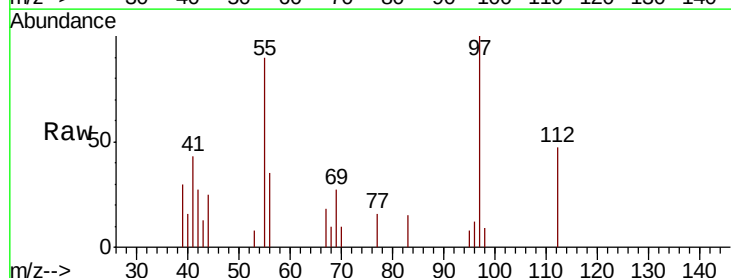
Ion Ratio Lower Upper

97 100

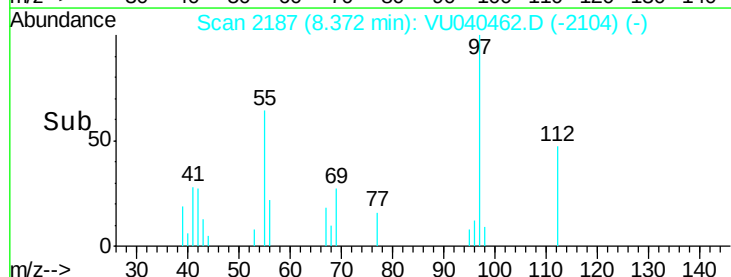
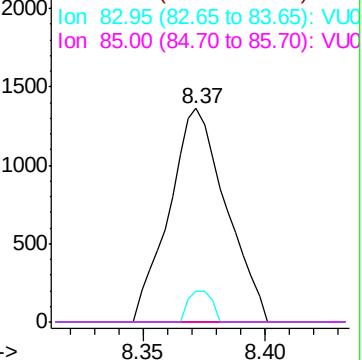
99 0.0 45.8 85.0#

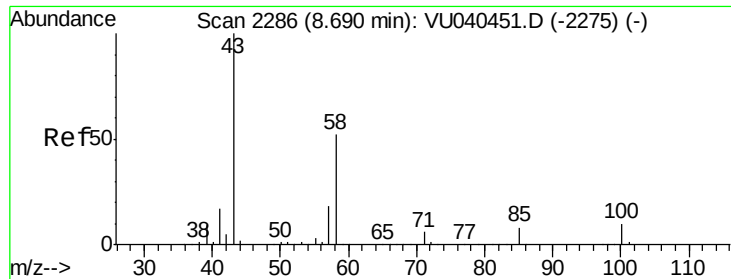
83 14.7 62.9 116.9#

85 0.0 41.7 77.5#



Abundance Ion 96.95 (96.65 to 97.65): VU040451.D (-2184) (-)

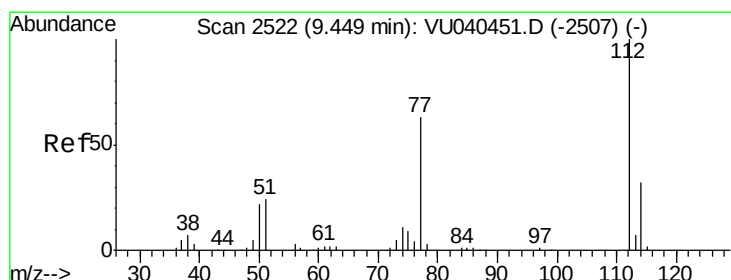
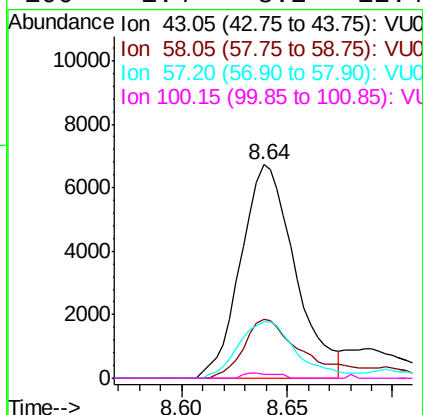
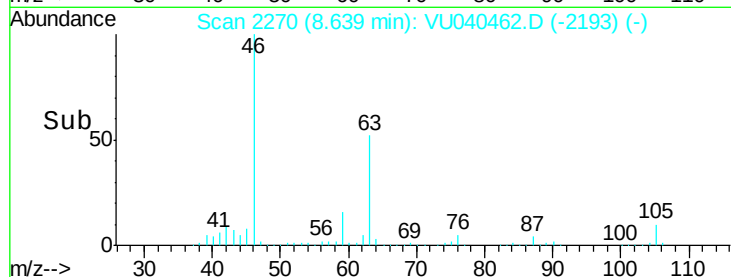
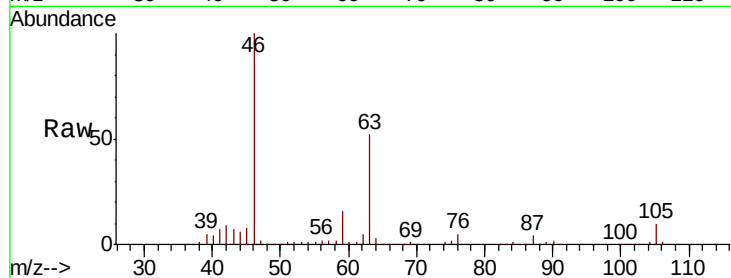




#48
2-Hexanone
Concen: 1.806 ug/L
RT: 8.64 min Scan# 2270
Delta R.T. -0.05 min
Lab File: VU040462.D
Acq: 02 Oct 2020 15:42

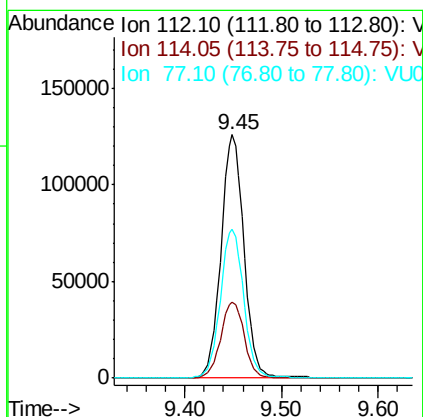
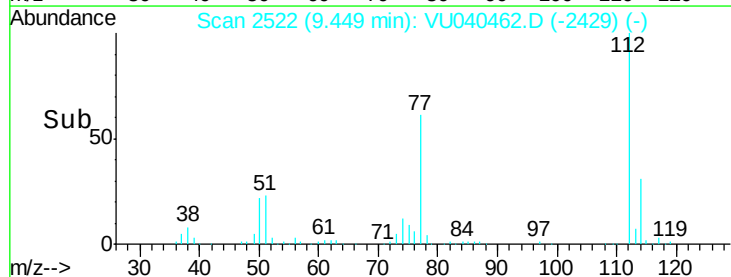
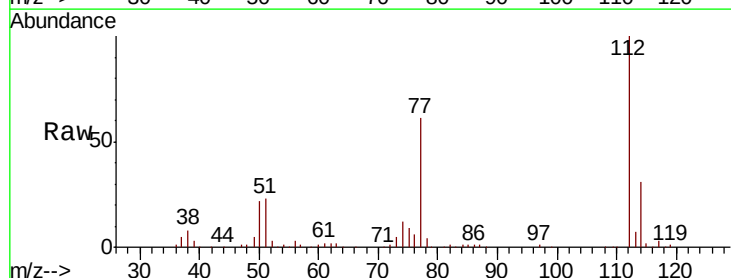
Instrument :
MSVOA_U
ClientSampleId :

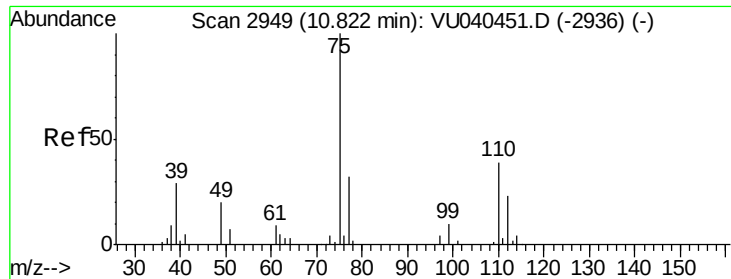
Tot Ion:	43	Resp:	12010
Ion	Ratio	Lower	Upper
43	100		
58	30.9	41.0	61.4#
57	28.9	14.6	22.0#
100	1.4	8.2	12.4#



#51
Chlorobenzene
Concen: 7.558 ug/L
RT: 9.45 min Scan# 2522
Delta R.T. -0.00 min
Lab File: VU040462.D
Acq: 02 Oct 2020 15:42

Tgt Ion:	112	Resp:	207393
Ion	Ratio	Lower	Upper
112	100		
114	31.3	22.0	40.8
77	61.2	49.5	74.3





#59

1,2,3-Trichloropropane

Concen: 0.906 ug/L

RT: 11.74 min Scan# 3235

Delta R.T. 0.92 min

Lab File: VU040462.D

Acq: 02 Oct 2020 15:42

Instrument :

MSVOA_U

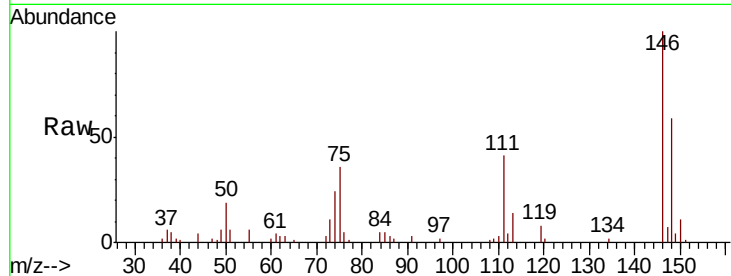
ClientSampled :

Tot Ion: 75 Resp: 7569

Ion Ratio Lower Upper

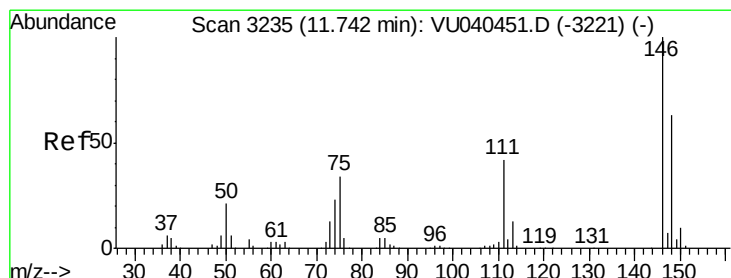
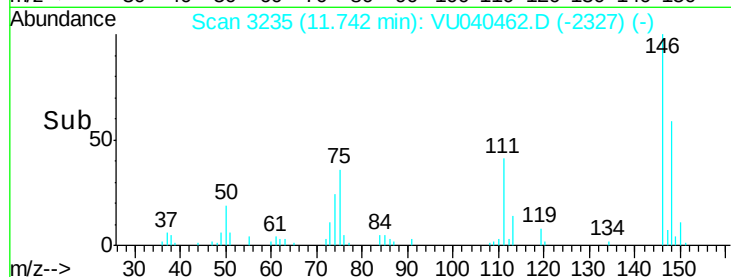
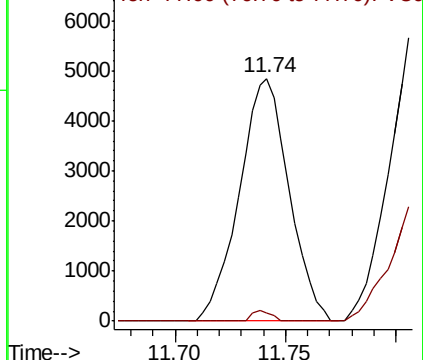
75 100

77 0.0 25.7 38.5#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#62

1,3-Dichlorobenzene

Concen: 1.116 ug/L

RT: 11.74 min Scan# 3235

Delta R.T. -0.00 min

Lab File: VU040462.D

Acq: 02 Oct 2020 15:42

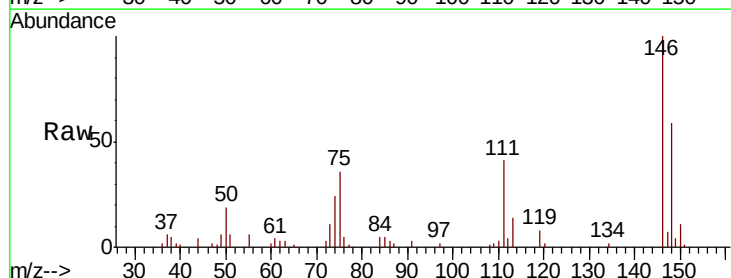
Tgt Ion: 146 Resp: 21862

Ion Ratio Lower Upper

146 100

111 41.0 28.6 53.0

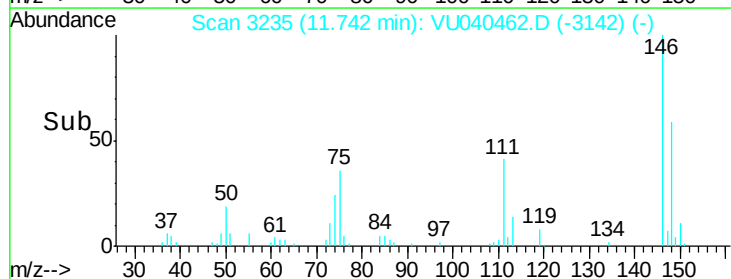
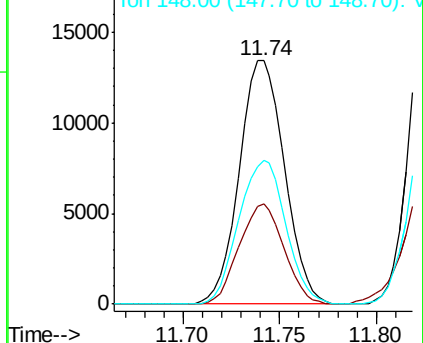
148 59.0 43.4 80.6

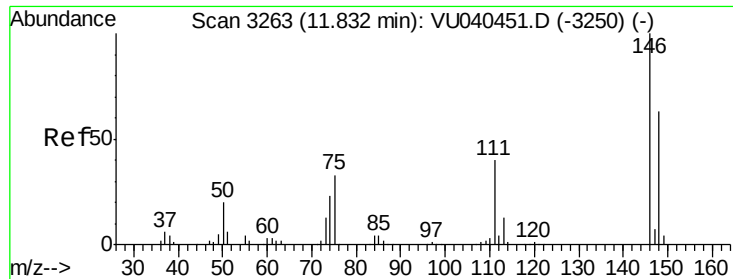


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

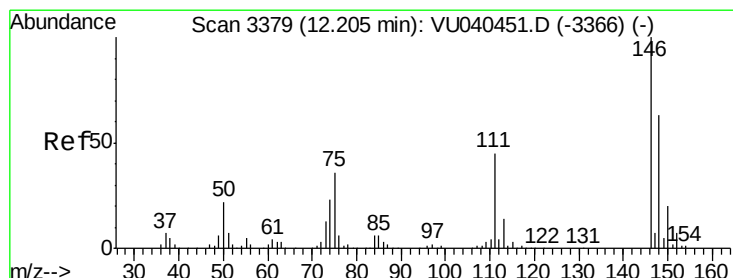
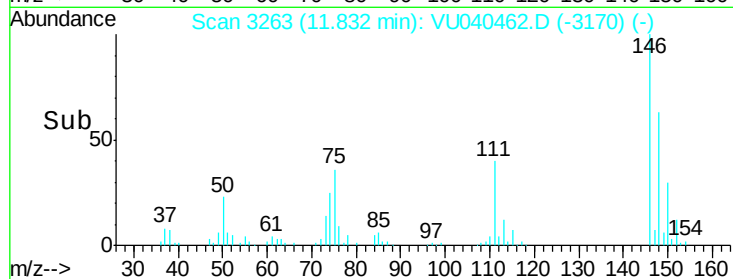
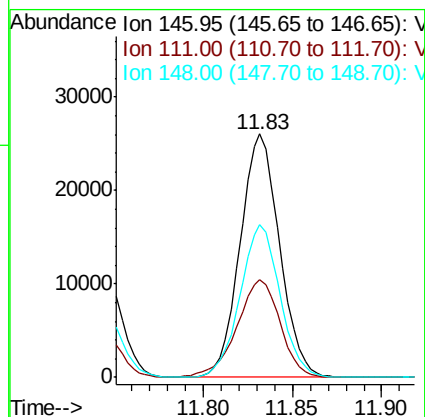
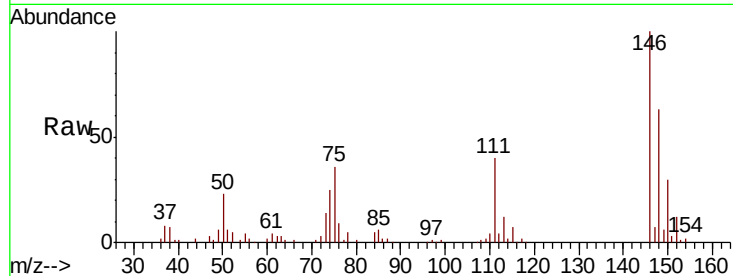




#63
 1,4-Dichlorobenzene
 Concen: 1.964 ug/L
 RT: 11.83 min Scan# 3263
 Delta R.T. -0.00 min
 Lab File: VU040462.D
 Acq: 02 Oct 2020 15:42

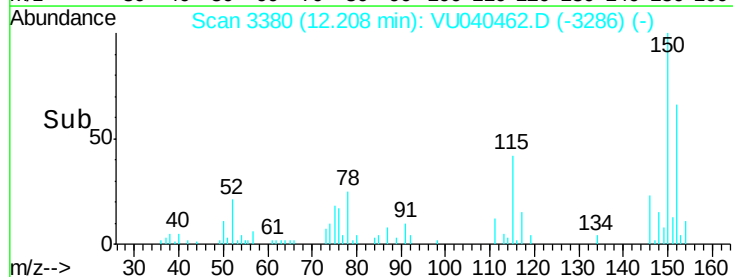
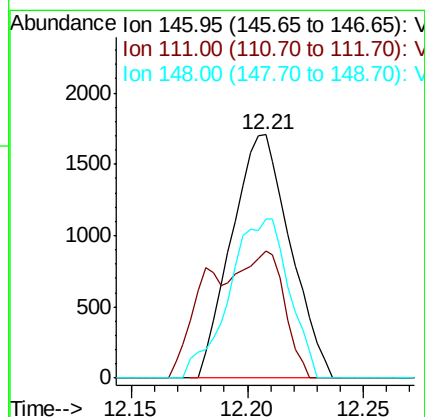
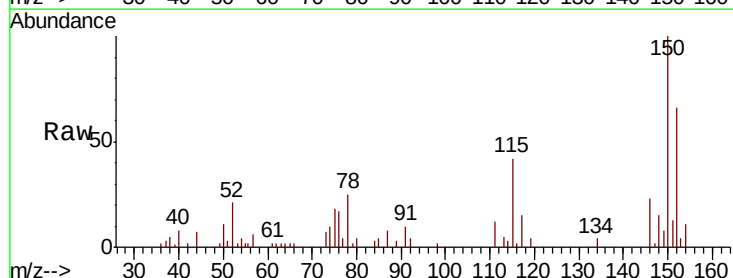
Instrument :
 MSVOA_U
 ClientSampleId :

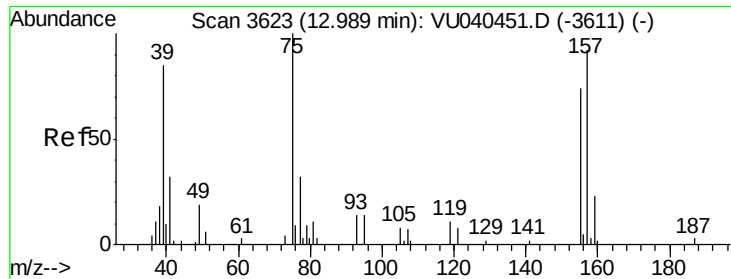
Tot Ion:146 Resp: 40022
 Ion Ratio Lower Upper
 146 100
 111 40.1 29.2 54.2
 148 62.7 44.4 82.4



#65
 1,2-Dichlorobenzene
 Concen: 0.158 ug/L
 RT: 12.21 min Scan# 3380
 Delta R.T. 0.00 min
 Lab File: VU040462.D
 Acq: 02 Oct 2020 15:42

Tgt Ion:146 Resp: 3001
 Ion Ratio Lower Upper
 146 100
 111 52.0 35.6 53.4
 148 65.5 49.8 74.6

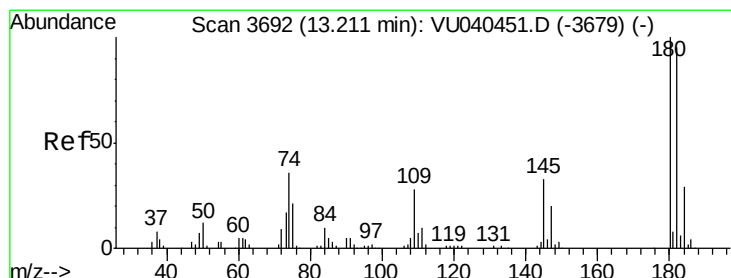
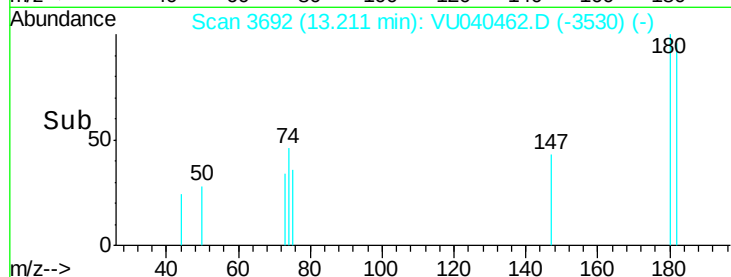
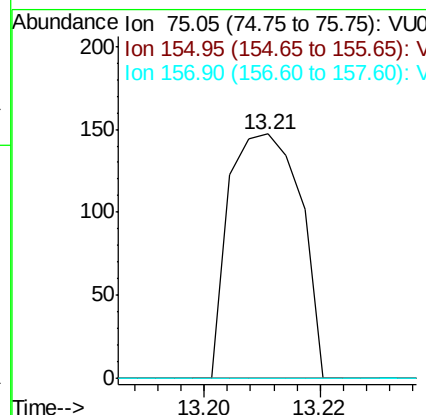
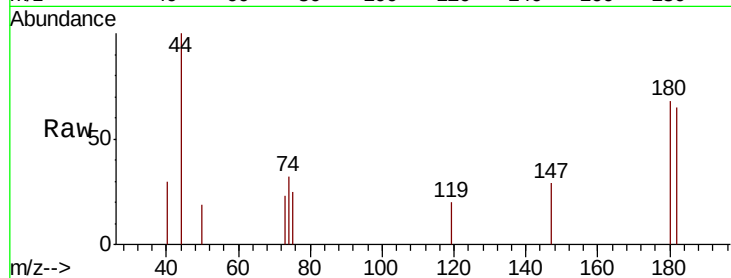




#66
 1,2-Dibromo-3-chloropropane
 Concen: 0.073 ug/L
 RT: 13.21 min Scan# 3692
 Delta R.T. 0.22 min
 Lab File: VU040462.D
 Acq: 02 Oct 2020 15:42

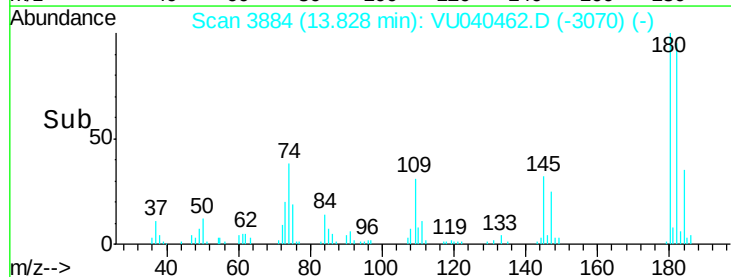
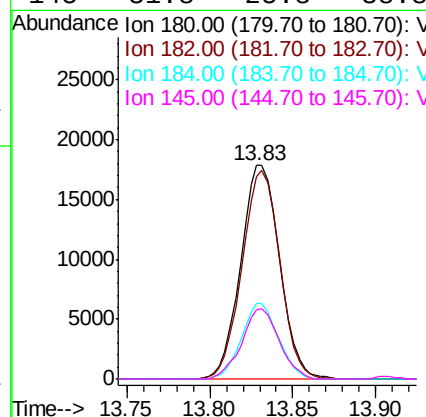
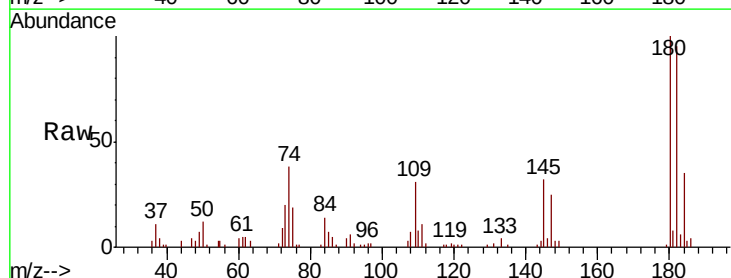
Instrument :
 MSVOA_U
 ClientSampleId :

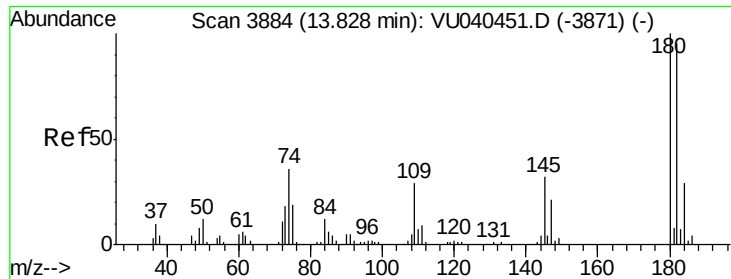
Tot Ion: 75 Resp: 125
 Ion Ratio Lower Upper
 75 100
 155 0.0 59.4 89.2#
 157 0.0 65.0 97.4#



#67
 1,3,5-Trichlorobenzene
 Concen: 2.081 ug/L
 RT: 13.83 min Scan# 3884
 Delta R.T. 0.62 min
 Lab File: VU040462.D
 Acq: 02 Oct 2020 15:42

Tgt Ion: 180 Resp: 29099
 Ion Ratio Lower Upper
 180 100
 182 95.1 76.5 114.7
 184 33.6 24.6 37.0
 145 31.8 25.8 38.8

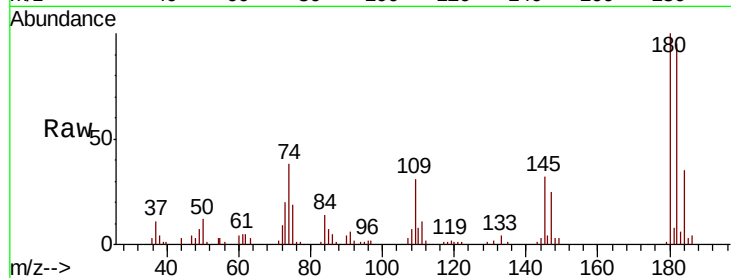




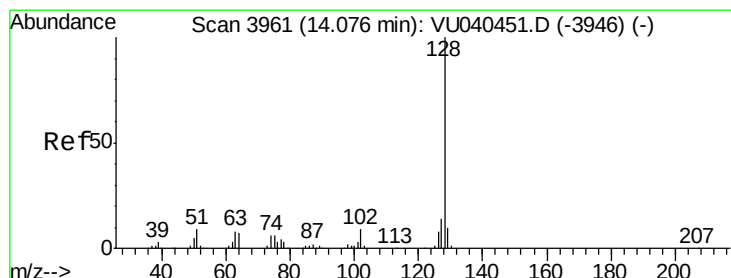
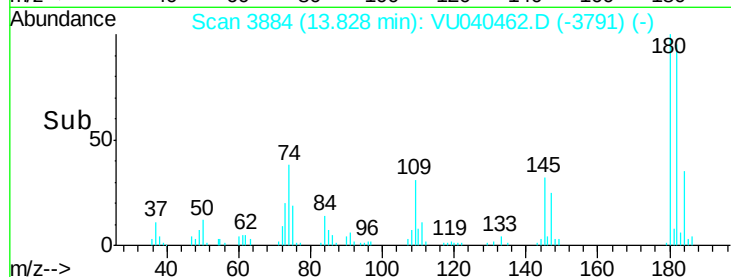
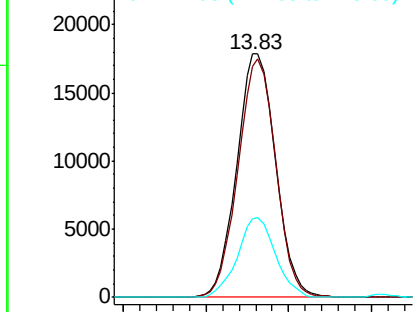
#68
 1,2,4-trichlorobenzene
 Concen: 2.589 ug/L
 RT: 13.83 min Scan# 3884
 Delta R.T. -0.00 min
 Lab File: VU040462.D
 Acq: 02 Oct 2020 15:42

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180 Resp: 29099
 Ion Ratio Lower Upper
 180 100
 182 95.1 76.6 115.0
 145 31.8 26.3 39.5

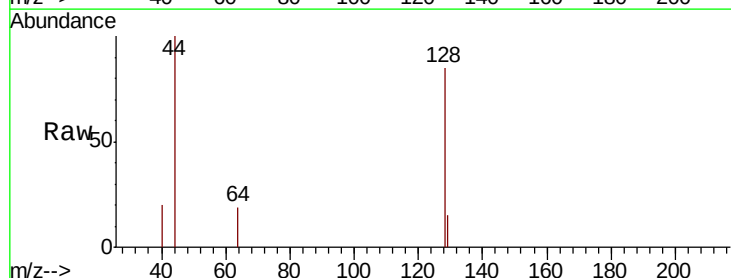


Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V

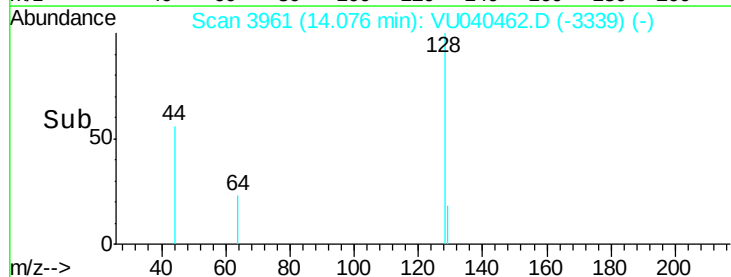
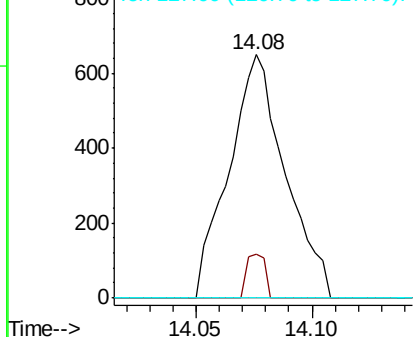


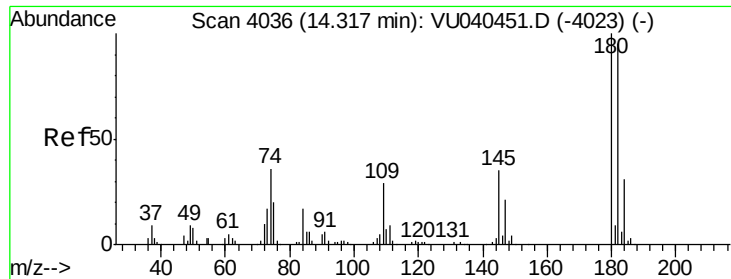
#69
 Naphthalene
 Concen: 0.057 ug/L
 RT: 14.08 min Scan# 3961
 Delta R.T. -0.00 min
 Lab File: VU040462.D
 Acq: 02 Oct 2020 15:42

Tgt Ion:128 Resp: 1096
 Ion Ratio Lower Upper
 128 100
 129 5.8 8.2 12.4#
 127 0.0 10.2 15.4#



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 129.00 (128.70 to 129.70): V
 Ion 127.00 (126.70 to 127.70): V

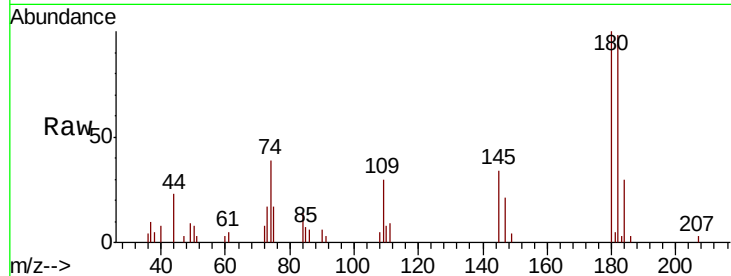




#70
 1,2,3-Trichlorobenzene
 Concen: 0.535 ug/L
 RT: 14.32 min Scan# 4037
 Delta R.T. 0.00 min
 Lab File: VU040462.D
 Acq: 02 Oct 2020 15:42

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ion	Ratio	Lower	Upper
180	100			
182	100.8	76.6	115.0	
145	38.3	27.8	41.6	



Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

