

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U110920\
 Data File : VU041148.D
 Acq On : 09 Nov 2020 18:04
 Operator : SY/MD
 Sample : L4646-15
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GB0T9

Quant Time: Nov 10 01:14:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Nov 10 01:04:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	71782	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	68927	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	33434	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	16666	2.76	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	55.20%
7) Chloroethane-d5	1.92	69	16157	3.49	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	69.80%
11) 1,1-Dichloroethene-d2	2.58	63	29181	2.47	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	49.40%#
20) 2-Butanone-d5	4.66	46	104026	52.38	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	104.76%
24) Chloroform-d	5.08	84	45892	4.31	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.20%
26) 1,2-Dichloroethane-d4	5.72	65	30612	4.63	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.60%
32) Benzene-d6	5.74	84	82071	4.45	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.00%
36) 1,2-Dichloropropane-d6	6.70	67	30886	5.14	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	102.80%
41) Toluene-d8	7.91	98	71974	4.31	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.20%
43) trans-1,3-Dichloropropene-	8.19	79	12033	4.62	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	92.40%
46) 2-Hexanone-d5	8.64	63	76499	54.61	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	109.22%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	27472	4.93	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.60%
64) 1,2-Dichlorobenzene-d4	12.19	152	32008	5.46	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	109.20%

Target Compounds

					Ovalue
3) Chloromethane	1.61	50	457	0.067 ug/L #	43
5) Vinyl chloride	1.61	62	239	0.035 ug/L #	1
15) Methyl Acetate	3.06	43	4029	1.297 ug/L #	53
18) trans-1,2-Dichloroethene	3.37	96	1409	0.273 ug/L	96
22) cis-1,2-Dichloroethene	4.68	96	70907	13.340 ug/L	98
27) 1,2-Dichloroethane	5.81	62	569	0.074 ug/L #	74
30) Cyclohexane	5.40	56	3981	0.479 ug/L	98
33) Benzene	5.79	78	55163	2.678 ug/L	100
34) Trichloroethene	6.56	95	722287	137.806 ug/L	99
35) Methylcyclohexane	6.77	83	1054	0.135 ug/L #	72
37) 1,2-Dichloropropane	6.70	63	3391	0.608 ug/L #	86
39) cis-1,3-Dichloropropene	7.57	75	828	0.108 ug/L #	59
42) Toluene	7.97	91	1436	0.069 ug/L #	76
44) trans-1,3-Dichloropropene	8.18	75	415	0.058 ug/L #	1
45) 1,1,2-Trichloroethane	8.41	97	502	0.121 ug/L #	79
47) Tetrachloroethene	8.56	164	1553	0.403 ug/L	91
48) 2-Hexanone	8.64	43	10831	3.237 ug/L #	70

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Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Nov 10 01:04:12 2020
Response via : Initial Calibration

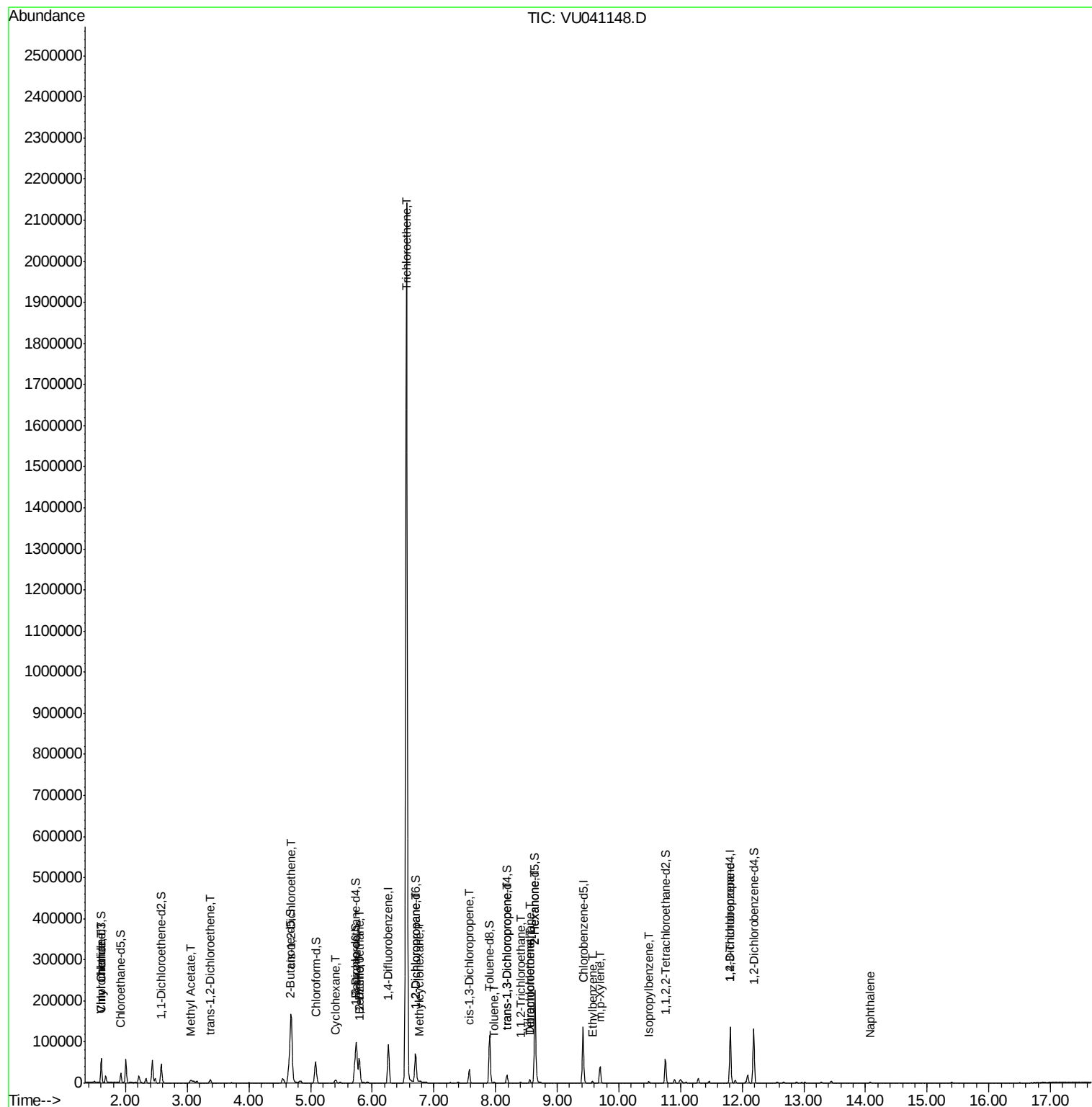
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Dibromochloromethane	8.56	129	1593	0.331	ug/L #	11
52) Ethylbenzene	9.57	91	3225	0.147	ug/L	89
53) m,p-Xylene	9.70	106	11287	1.408	ug/L	94
56) Isopropylbenzene	10.48	105	2769	0.138	ug/L	96
59) 1,2,3-Trichloropropane	11.81	75	4620	1.112	ug/L	92
69) Naphthalene	14.08	128	2732	0.273	ug/L #	91

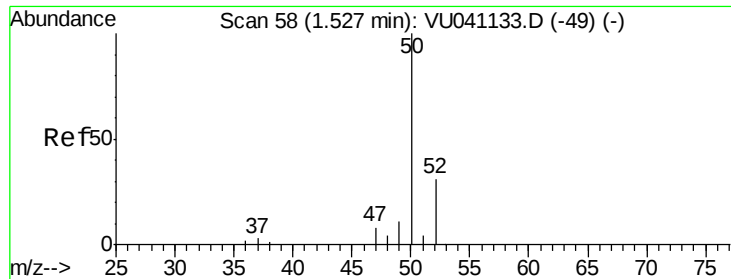
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.067 ug/L

RT: 1.61 min Scan# 83

Delta R.T. 0.08 min

Lab File: VU041148.D

Acq: 09 Nov 2020 18:04

Instrument :

MSVOA_U

ClientSampleId :

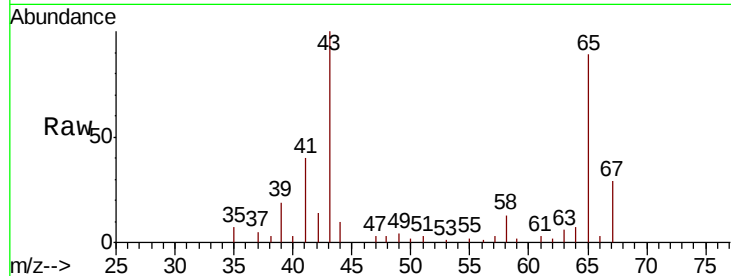
GB0T9

Tot Ion: 50 Resp: 457

Ion Ratio Lower Upper

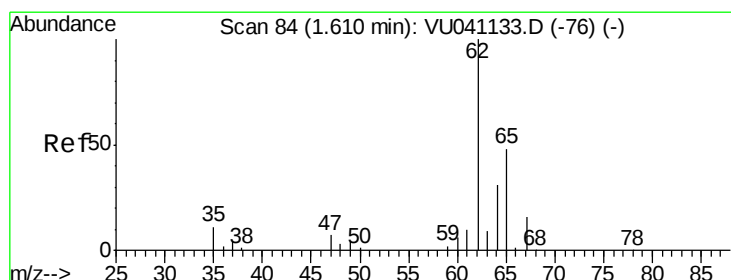
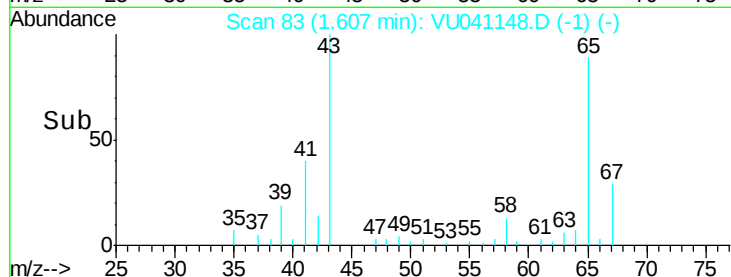
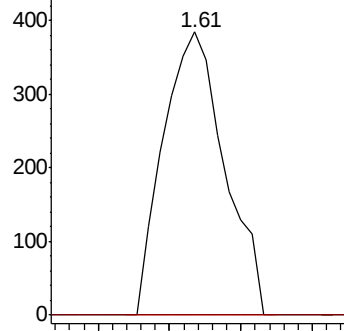
50 100

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: 0.035 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU041148.D

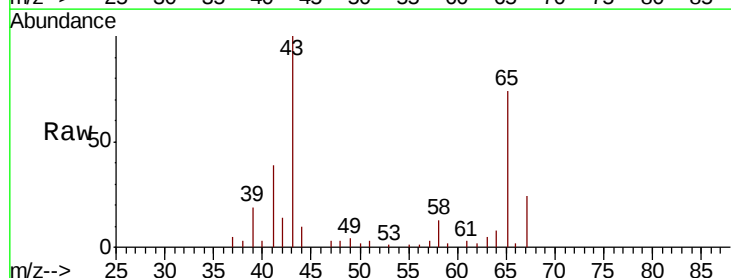
Acq: 09 Nov 2020 18:04

Tgt Ion: 62 Resp: 239

Ion Ratio Lower Upper

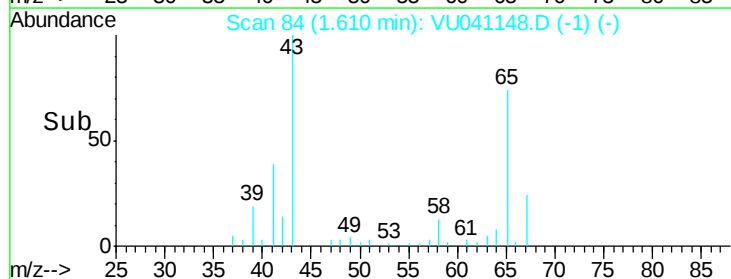
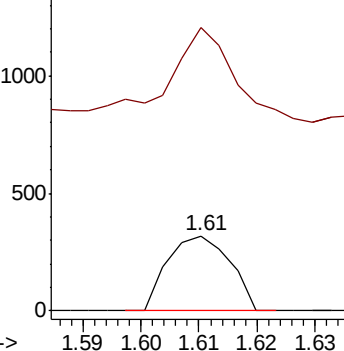
62 100

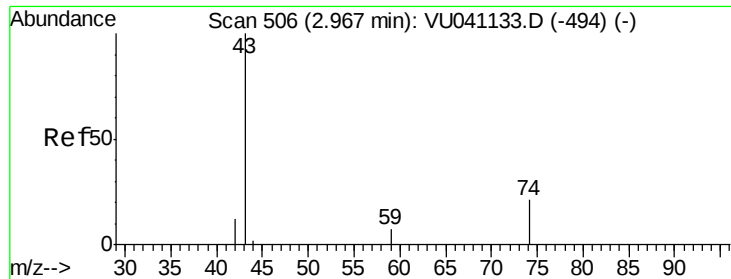
64 376.3 22.7 42.3#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0





#15

Methyl Acetate

Concen: 1.297 ug/L

RT: 3.06 min Scan# 535

Delta R.T. 0.09 min

Lab File: VU041148.D

Acq: 09 Nov 2020 18:04

Instrument :

MSVOA_U

ClientSampled :

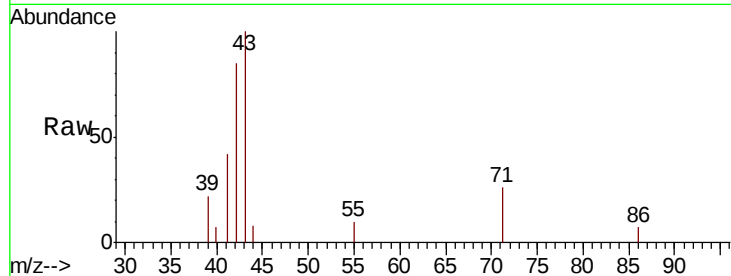
GB0T9

Tot Ion: 43 Resp: 4029

Ion Ratio Lower Upper

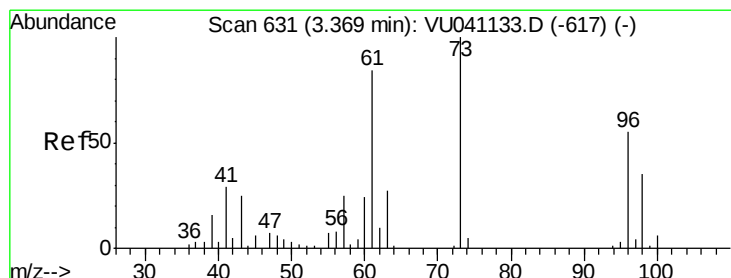
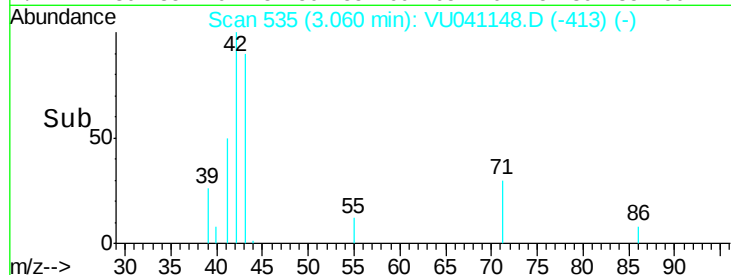
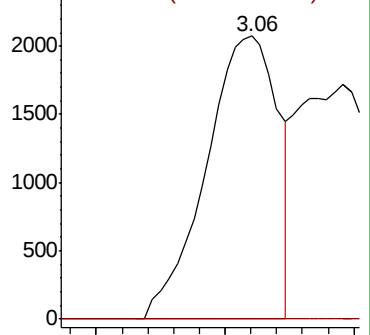
43 100

74 0.0 18.3 27.5#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0



#18

trans-1,2-Dichloroethene

Concen: 0.273 ug/L

RT: 3.37 min Scan# 631

Delta R.T. 0.00 min

Lab File: VU041148.D

Acq: 09 Nov 2020 18:04

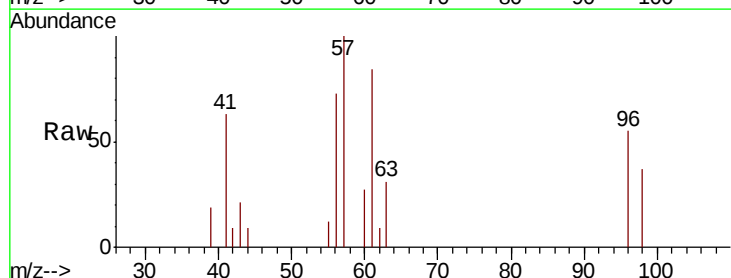
Tgt Ion: 96 Resp: 1409

Ion Ratio Lower Upper

96 100

61 152.3 110.9 205.9

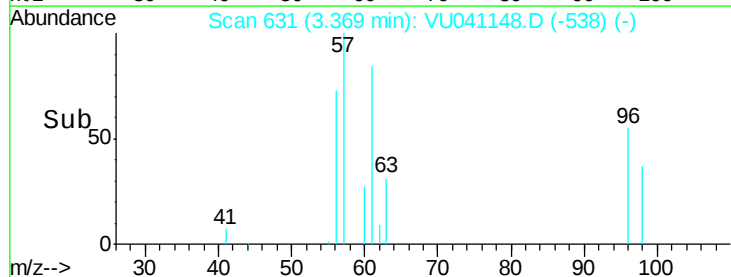
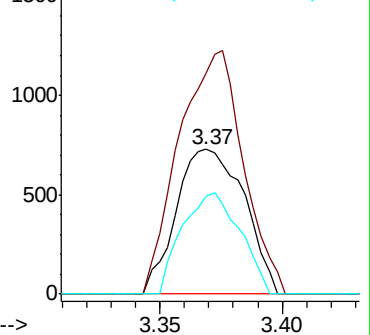
98 67.1 45.4 84.2

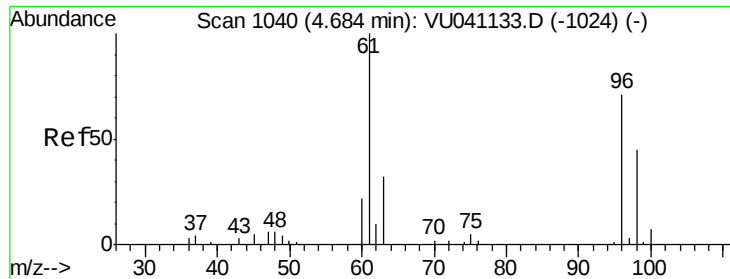


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 97.95 (97.65 to 98.65): VU0

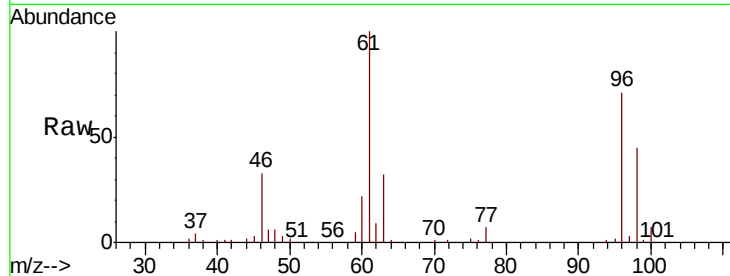




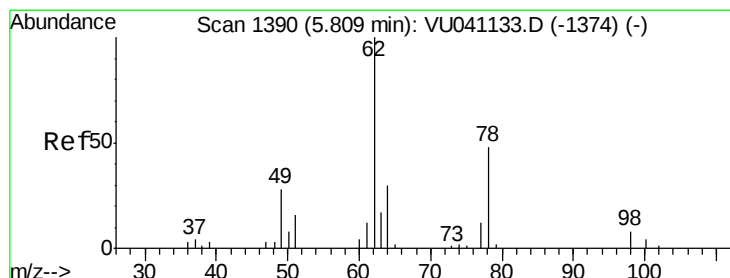
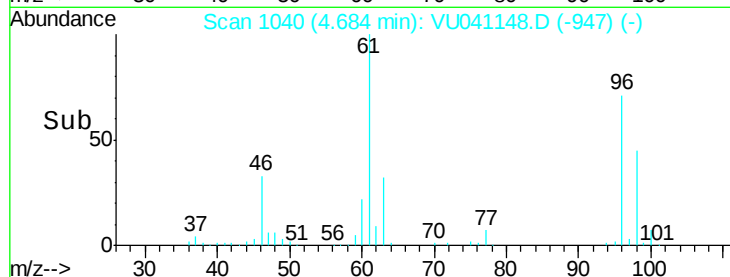
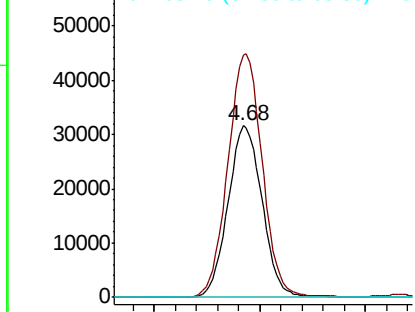
#22
 cis-1,2-Dichloroethene
 Concen: 13.340 ug/L
 RT: 4.68 min Scan# 1040
 Delta R.T. -0.00 min
 Lab File: VU041148.D
 Acq: 09 Nov 2020 18:04

Instrument :
 MSVOA_U
 ClientSampleId :
 GB0T9

Tot Ion: 96 Resp: 70907
 Ion Ratio Lower Upper
 96 100
 61 141.4 97.2 180.4
 68 0.0 0.0 0.0

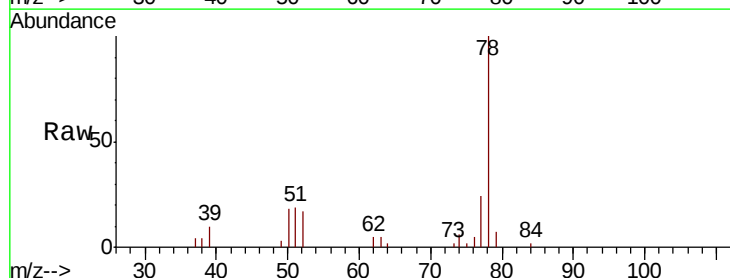


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

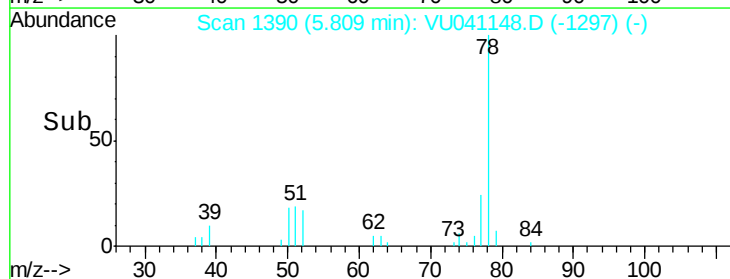
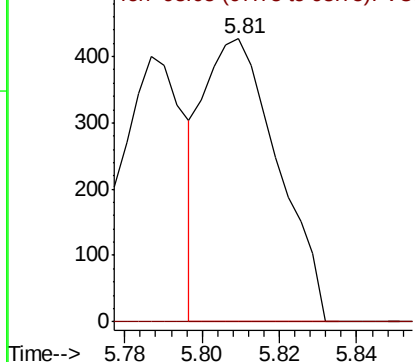


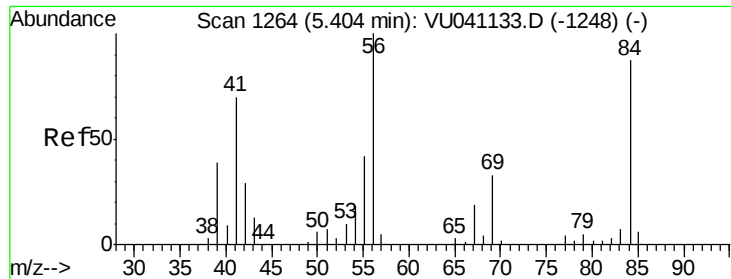
#27
 1,2-Dichloroethane
 Concen: 0.074 ug/L
 RT: 5.81 min Scan# 1390
 Delta R.T. 0.00 min
 Lab File: VU041148.D
 Acq: 09 Nov 2020 18:04

Tgt Ion: 62 Resp: 569
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.6 11.4#



Abundance Ion 62.00 (61.70 to 62.70): VU0
 Ion 98.05 (97.75 to 98.75): VU0

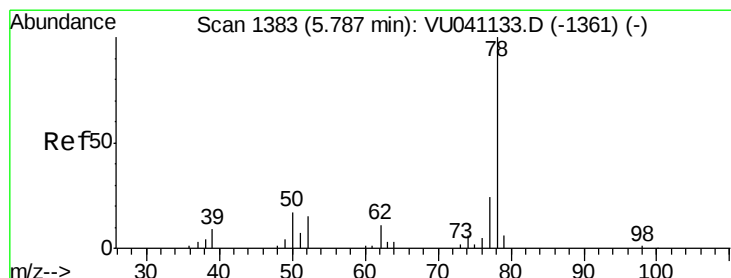
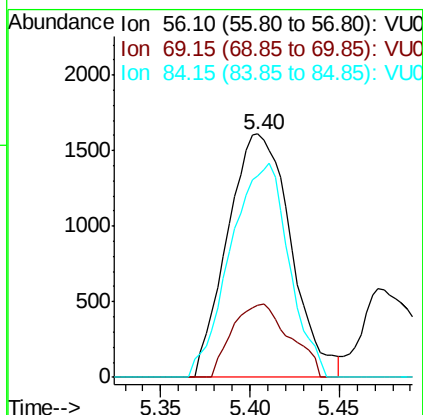
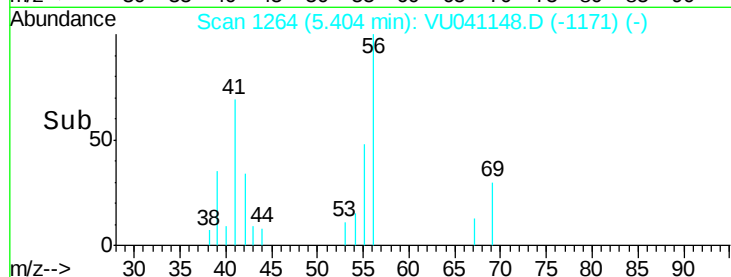
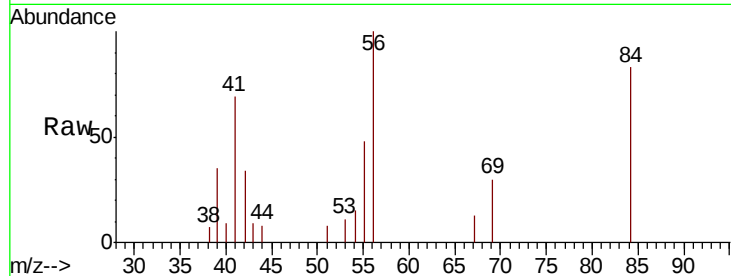




#30
Cyclohexane
Concen: 0.479 ug/L
RT: 5.40 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VU041148.D
Acq: 09 Nov 2020 18:04

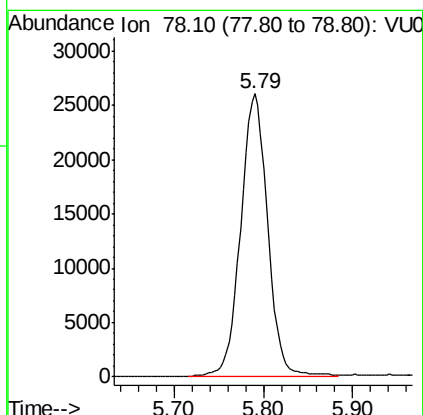
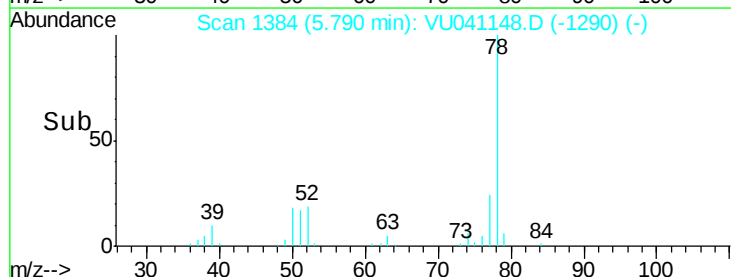
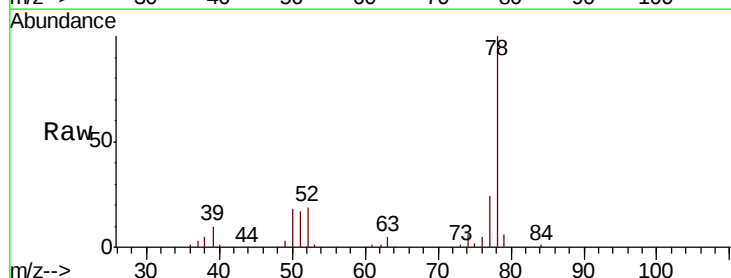
Instrument :
MSVOA_U
ClientSampleId :
GB0T9

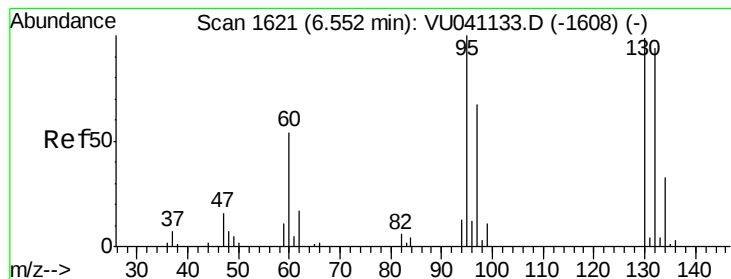
Tot Ion: 56 Resp: 3981
Ion Ratio Lower Upper
56 100
69 27.4 22.8 34.2
84 81.1 63.6 95.4



#33
Benzene
Concen: 2.678 ug/L
RT: 5.79 min Scan# 1384
Delta R.T. 0.00 min
Lab File: VU041148.D
Acq: 09 Nov 2020 18:04

Tgt Ion: 78 Resp: 55163





#34

Trichloroethene

Concen: 137.806 ug/L

RT: 6.56 min Scan# 1622

Delta R.T. 0.00 min

Lab File: VU041148.D

Acq: 09 Nov 2020 18:04

Instrument :

MSVOA_U

ClientSampleId :

GB0T9

Tot Ion: 95 Resp: 722287

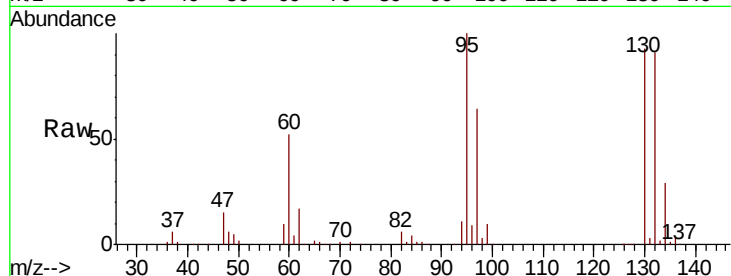
Ion Ratio Lower Upper

95 100

97 64.2 45.6 84.6

132 91.0 64.8 120.4

130 93.0 64.8 120.4

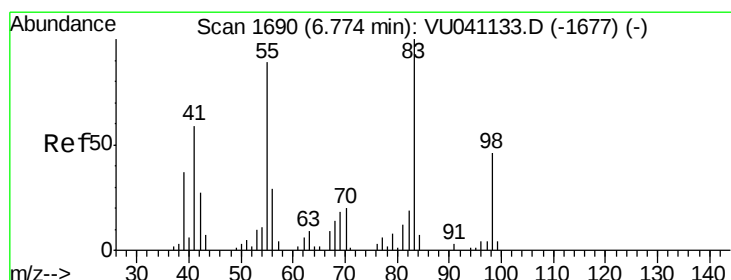
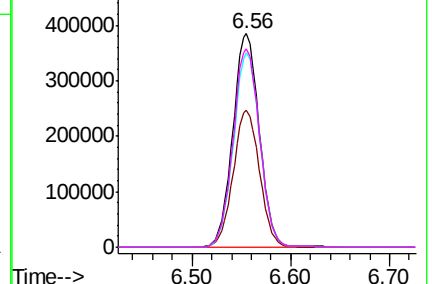
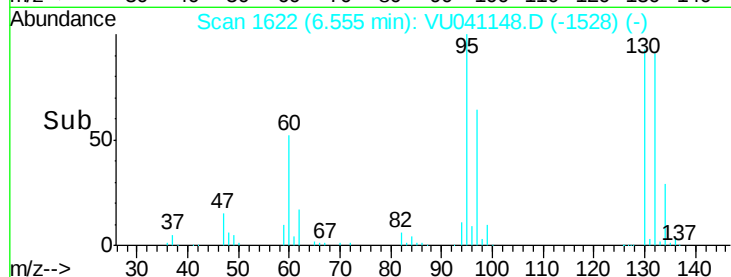


Abundance Ion 95.00 (94.70 to 95.70): VU041148.D (-1528) (-)

Ion 96.95 (96.65 to 97.65): VU041148.D (-1528) (-)

Ion 131.95 (131.65 to 132.65): VU041148.D (-1528) (-)

Ion 129.95 (129.65 to 130.65): VU041148.D (-1528) (-)



#35

Methylcyclohexane

Concen: 0.135 ug/L

RT: 6.77 min Scan# 1689

Delta R.T. -0.00 min

Lab File: VU041148.D

Acq: 09 Nov 2020 18:04

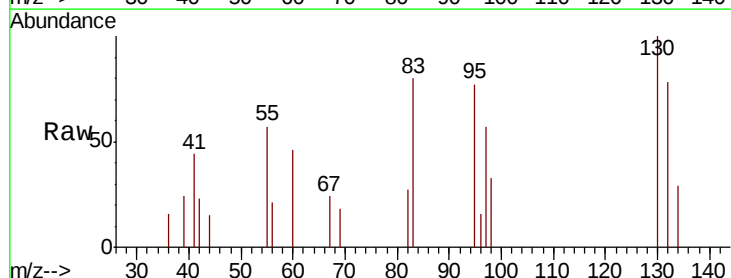
Tgt Ion: 83 Resp: 1054

Ion Ratio Lower Upper

83 100

55 96.7 72.0 108.0

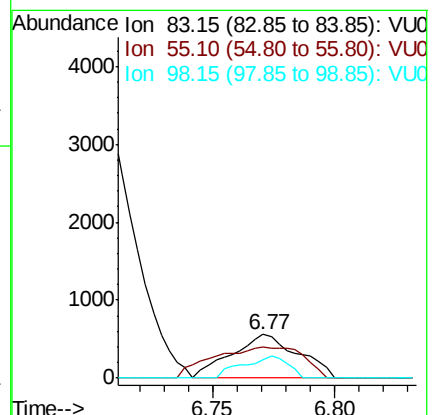
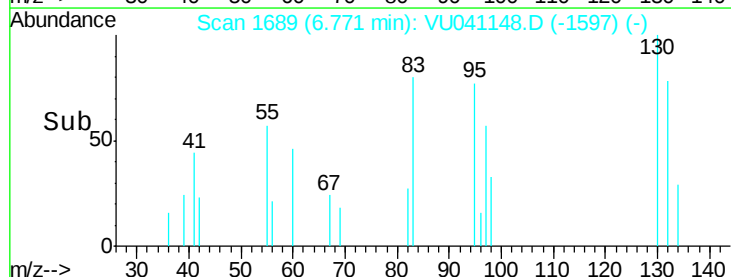
98 0.0 36.6 55.0#

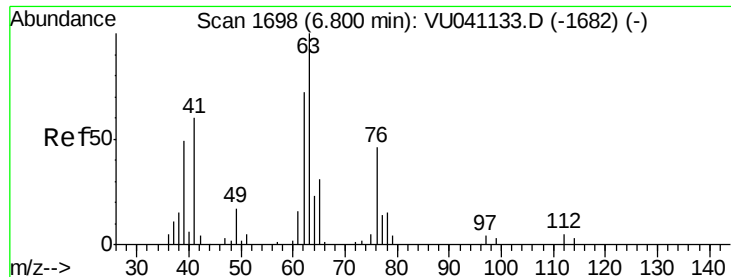


Abundance Ion 83.15 (82.85 to 83.85): VU041148.D (-1597) (-)

Ion 55.10 (54.80 to 55.80): VU041148.D (-1597) (-)

Ion 98.15 (97.85 to 98.85): VU041148.D (-1597) (-)

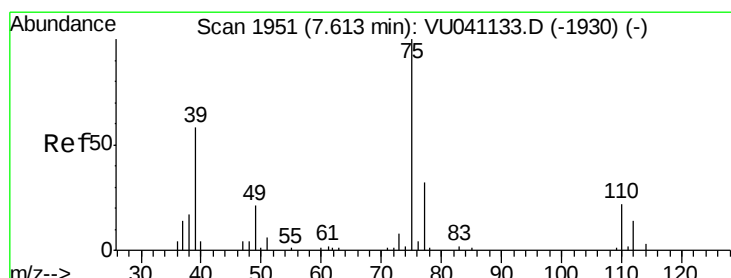
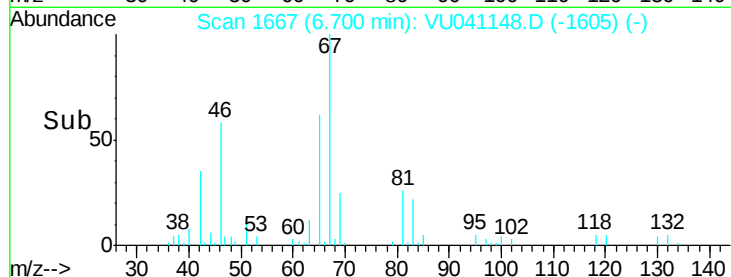
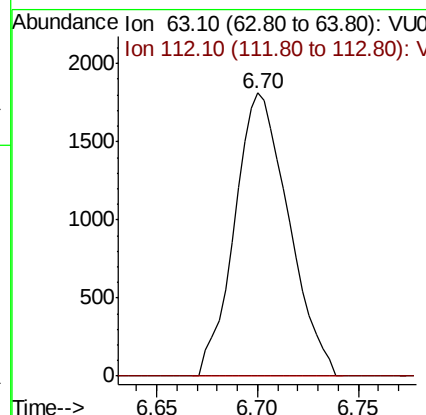
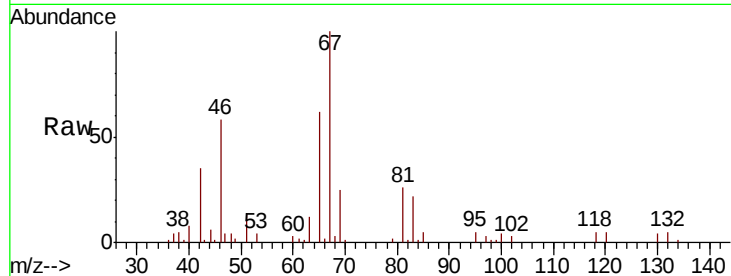




#37
 1,2-Dichloropropane
 Concen: 0.608 ug/L
 RT: 6.70 min Scan# 1667
 Delta R.T. -0.10 min
 Lab File: VU041148.D
 Acq: 09 Nov 2020 18:04

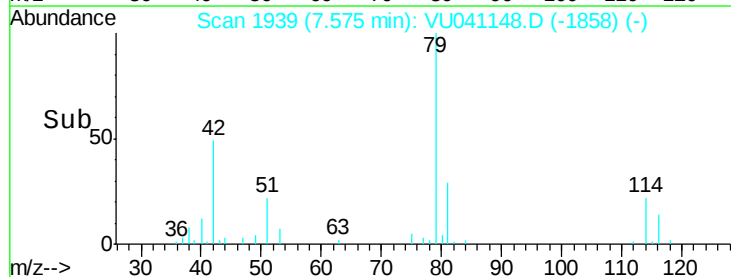
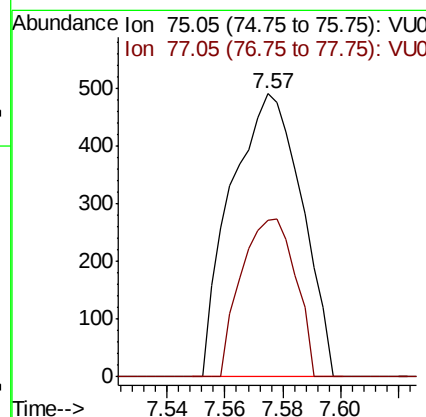
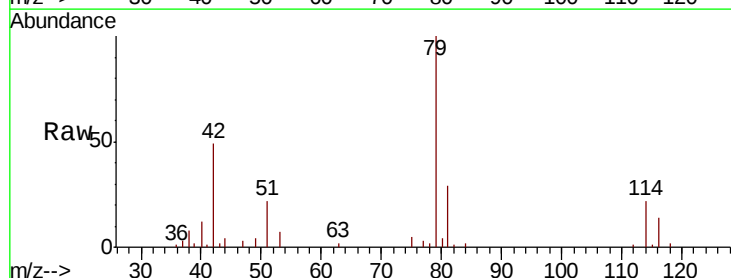
Instrument :
 MSVOA_U
 ClientSampleId :
 GB0T9

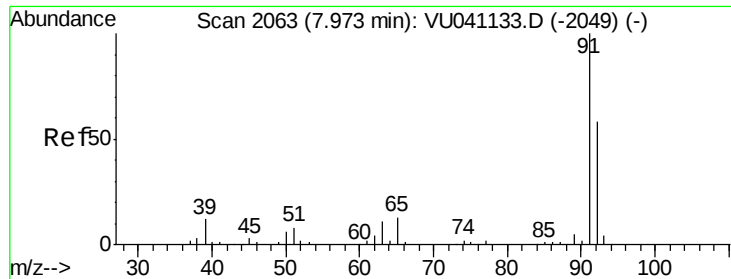
Tot Ion: 63 Resp: 3391
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.6 5.4#



#39
 cis-1,3-Dichloropropene
 Concen: 0.108 ug/L
 RT: 7.57 min Scan# 1939
 Delta R.T. -0.04 min
 Lab File: VU041148.D
 Acq: 09 Nov 2020 18:04

Tgt Ion: 75 Resp: 828
 Ion Ratio Lower Upper
 75 100
 77 55.5 22.7 42.3#





#42

Toluene

Concen: 0.069 ug/L

RT: 7.97 min Scan# 2063

Delta R.T. 0.00 min

Lab File: VU041148.D

Acq: 09 Nov 2020 18:04

Instrument :

MSVOA_U

ClientSampleId :

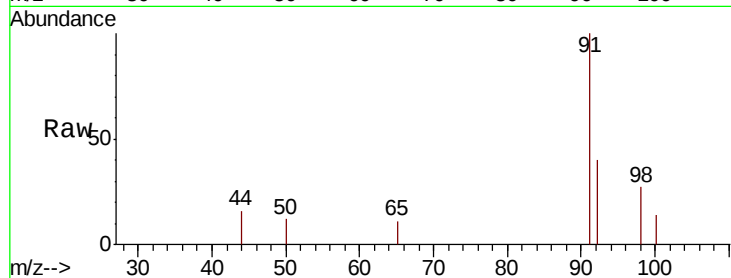
GB0T9

Tot Ion: 91 Resp: 1436

Ion Ratio Lower Upper

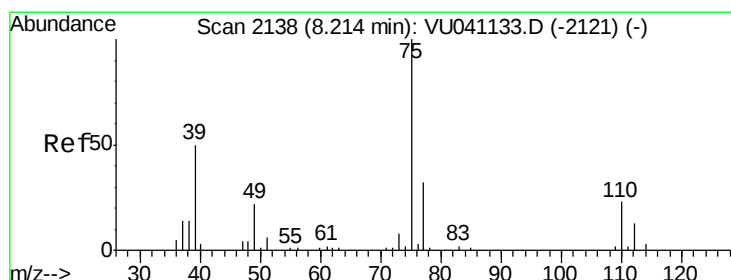
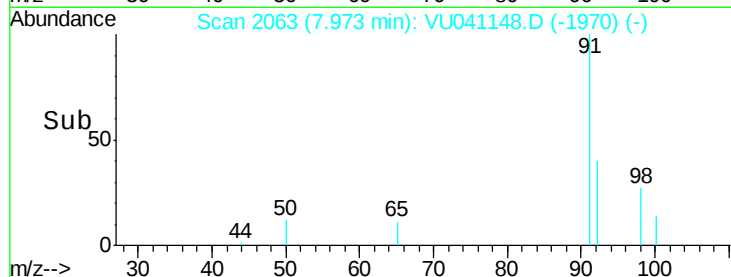
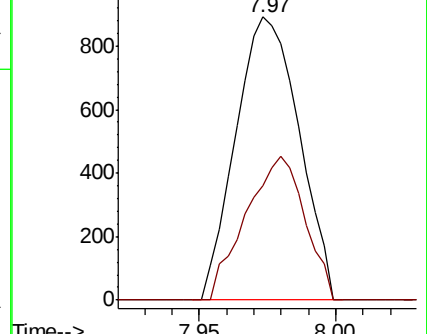
91 100

92 40.2 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: 0.058 ug/L

RT: 8.18 min Scan# 2128

Delta R.T. -0.03 min

Lab File: VU041148.D

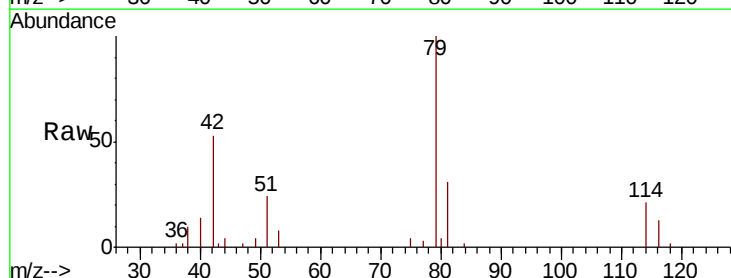
Acq: 09 Nov 2020 18:04

Tgt Ion: 75 Resp: 415

Ion Ratio Lower Upper

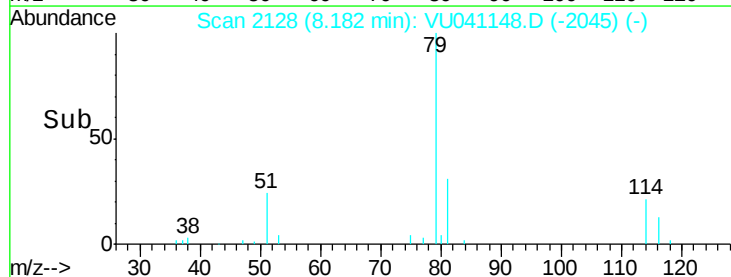
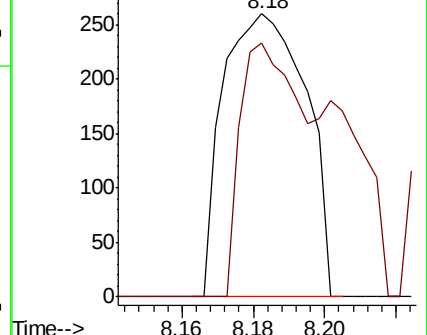
75 100

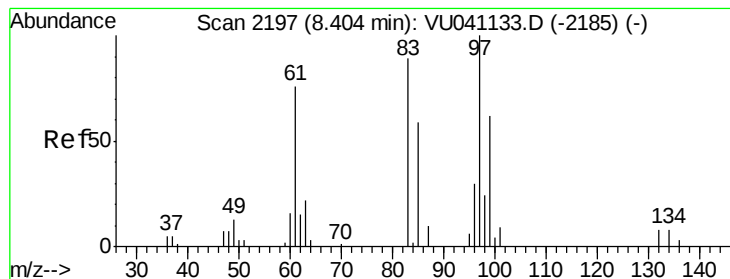
77 89.6 23.3 43.3#



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: 0.121 ug/L

RT: 8.41 min Scan# 2198

Delta R.T. 0.00 min

Lab File: VU041148.D

Acq: 09 Nov 2020 18:04

Instrument :

MSVOA_U

ClientSampleId :

GB0T9

Tot Ion: 97 Resp: 502

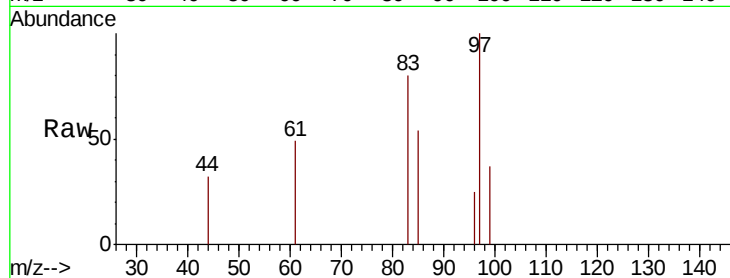
Ion Ratio Lower Upper

97 100

99 36.9 45.8 85.2#

83 80.1 67.9 126.1

85 53.7 42.8 79.6

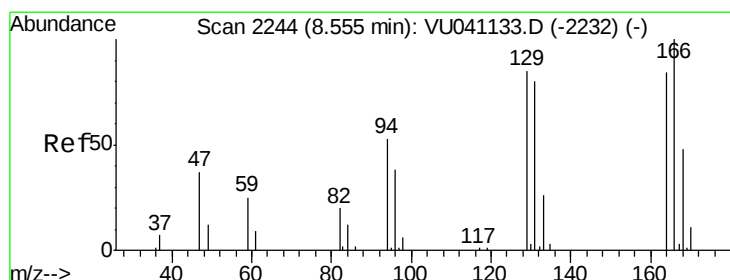
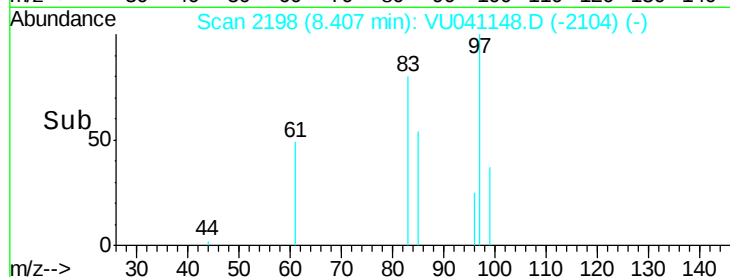
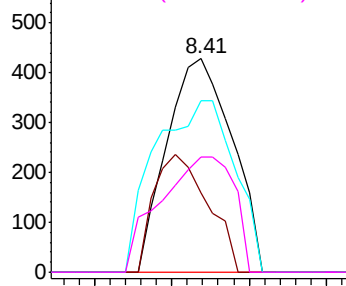


Abundance Ion 96.95 (96.65 to 97.65): VU0

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: 0.403 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. 0.00 min

Lab File: VU041148.D

Acq: 09 Nov 2020 18:04

Tgt Ion: 164 Resp: 1553

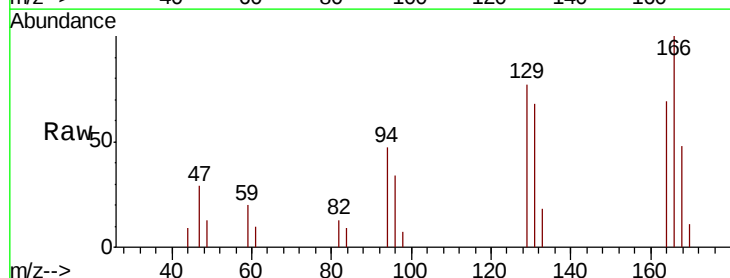
Ion Ratio Lower Upper

164 100

129 111.5 70.3 130.7

131 98.0 70.8 131.4

166 144.3 92.0 170.8

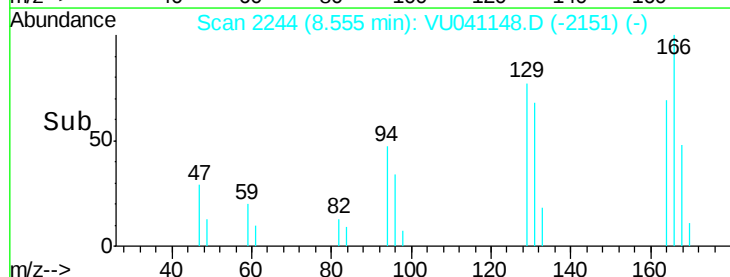
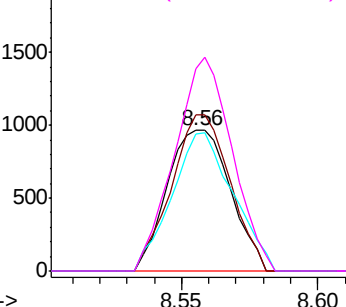


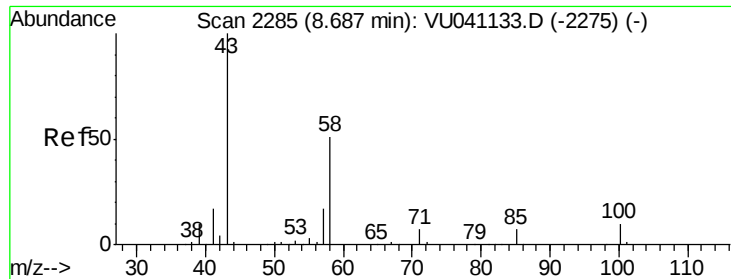
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

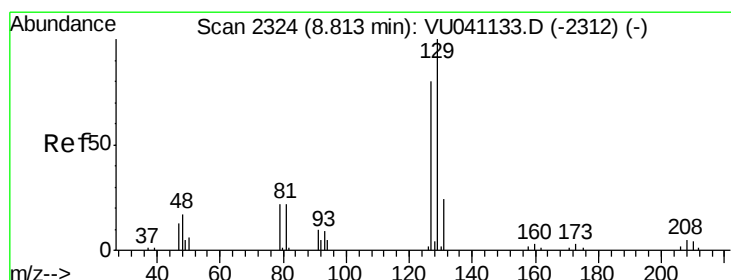
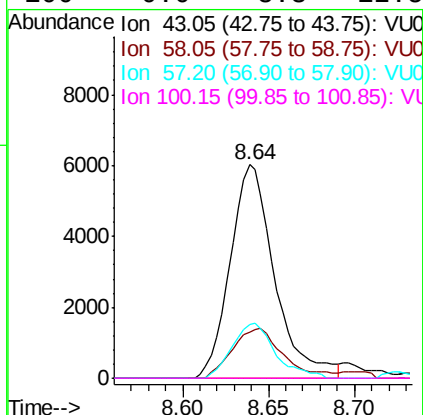
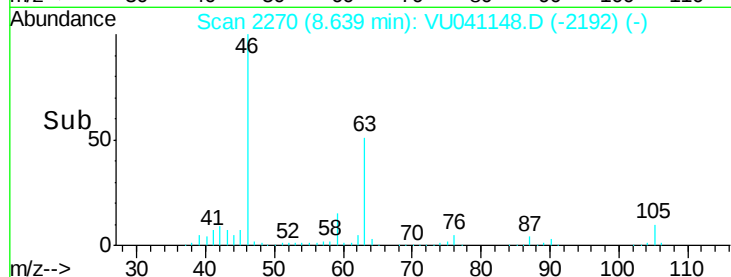
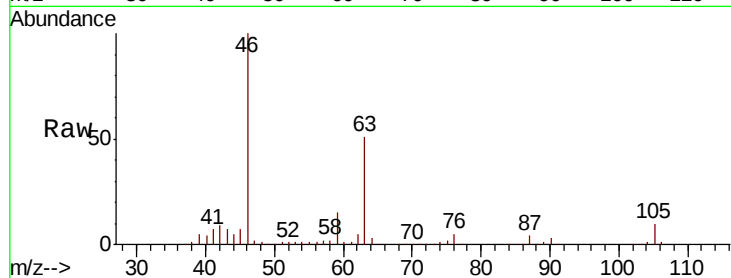




#48
2-Hexanone
Concen: 3.237 ug/L
RT: 8.64 min Scan# 2270
Delta R.T. -0.05 min
Lab File: VU041148.D
Acq: 09 Nov 2020 18:04

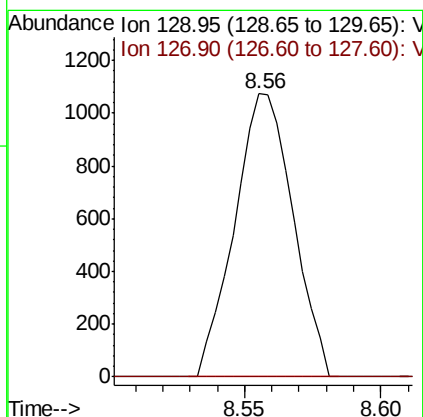
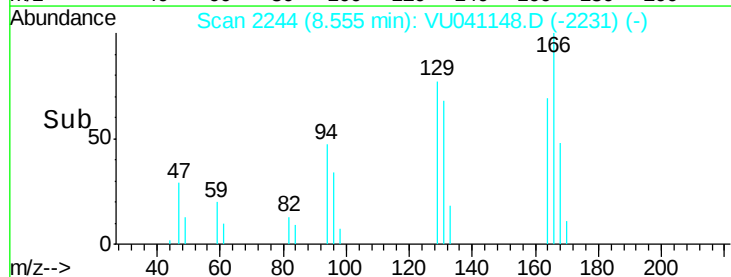
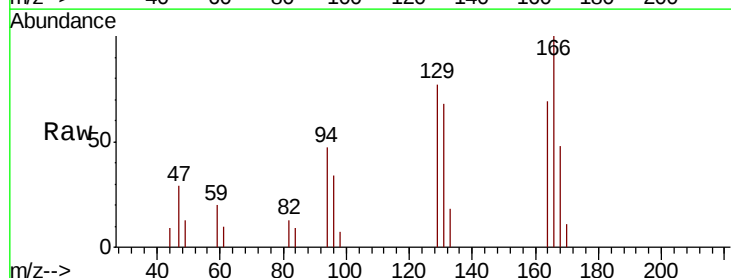
Instrument :
MSVOA_U
ClientSampleId :
GB0T9

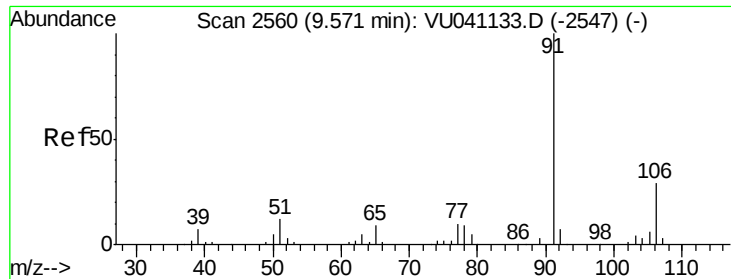
Tot Ion	Ratio	Lower	Upper
43	100		
58	26.9	41.4	62.2#
57	25.1	14.6	21.8#
100	0.0	8.3	12.5#



#49
Dibromochloromethane
Concen: 0.331 ug/L
RT: 8.56 min Scan# 2244
Delta R.T. -0.26 min
Lab File: VU041148.D
Acq: 09 Nov 2020 18:04

Tgt Ion	Ratio	Lower	Upper
129	100		
127	0.0	53.4	99.2#





#52

Ethylbenzene

Concen: 0.147 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. -0.00 min

Lab File: VU041148.D

Acq: 09 Nov 2020 18:04

Instrument :

MSVOA_U

ClientSampleId :

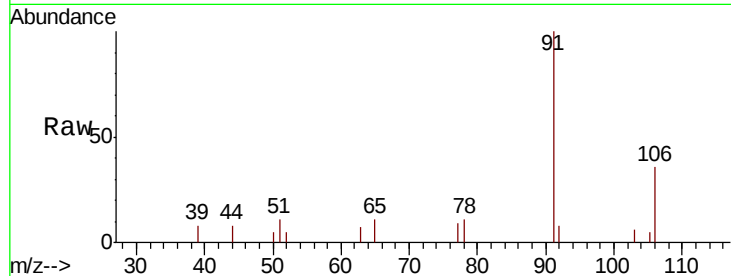
GB0T9

Tot Ion: 91 Resp: 3225

Ion Ratio Lower Upper

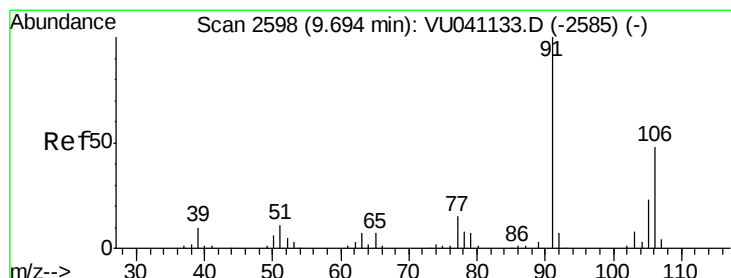
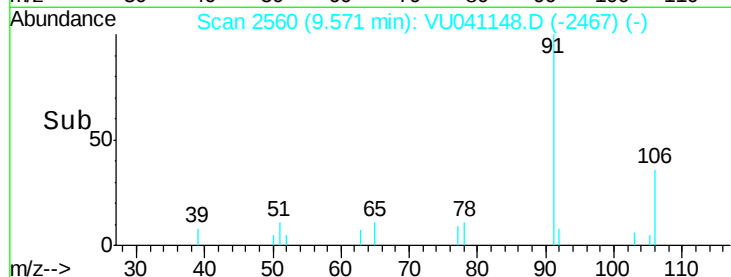
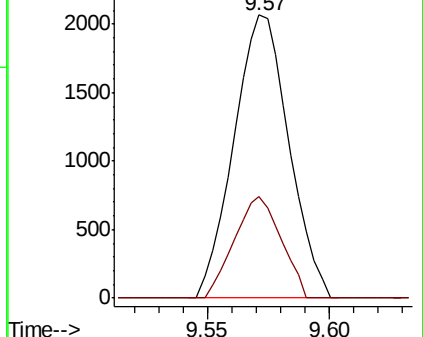
91 100

106 35.8 21.0 39.0



Abundance Ion 91.15 (90.85 to 91.85): VU041148.D (-2467) (-)

Ion 106.15 (105.85 to 106.85): VU041148.D (-2467) (-)



#53

m,p-Xylene

Concen: 1.408 ug/L

RT: 9.70 min Scan# 2599

Delta R.T. 0.00 min

Lab File: VU041148.D

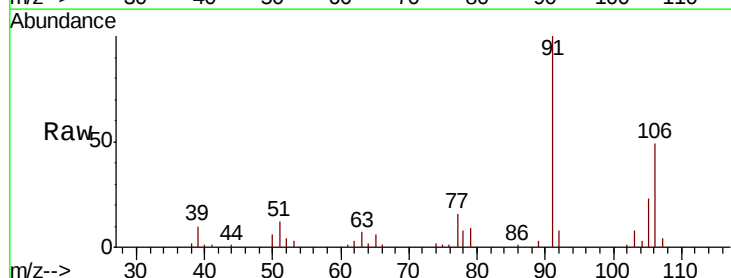
Acq: 09 Nov 2020 18:04

Tgt Ion: 106 Resp: 11287

Ion Ratio Lower Upper

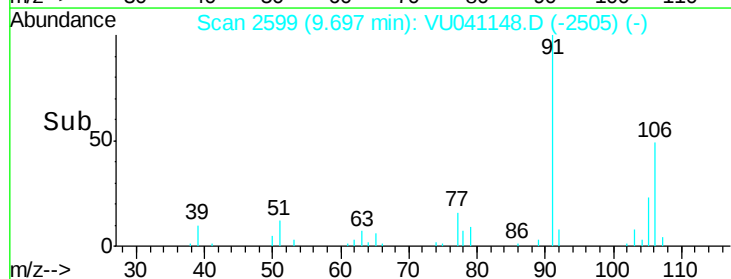
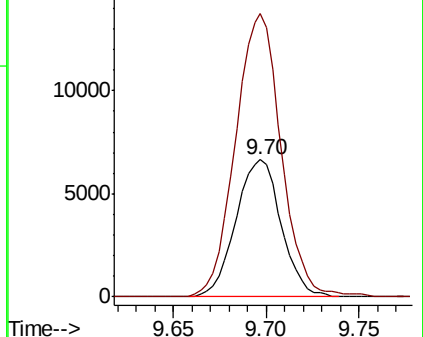
106 100

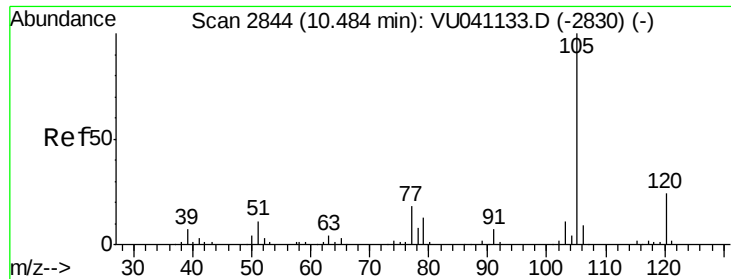
91 206.1 150.9 280.3



Abundance Ion 106.15 (105.85 to 106.85): VU041148.D (-2505) (-)

Ion 91.15 (90.85 to 91.85): VU041148.D (-2505) (-)





#56

Isopropylbenzene

Concen: 0.138 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. 0.00 min

Lab File: VU041148.D

Acq: 09 Nov 2020 18:04

Instrument :

MSVOA_U

ClientSampleId :

GB0T9

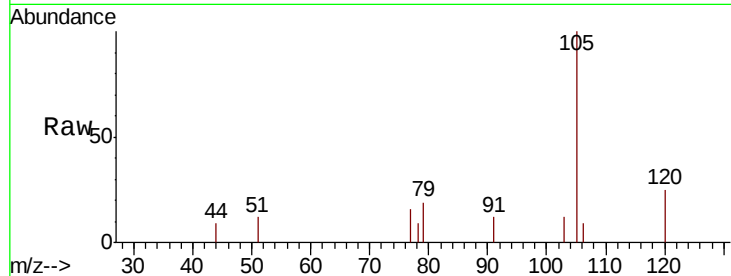
Tot Ion:105 Resp: 2769

Ion Ratio Lower Upper

105 100

120 23.2 20.7 31.1

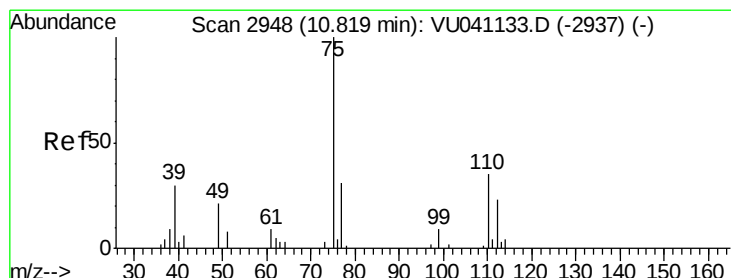
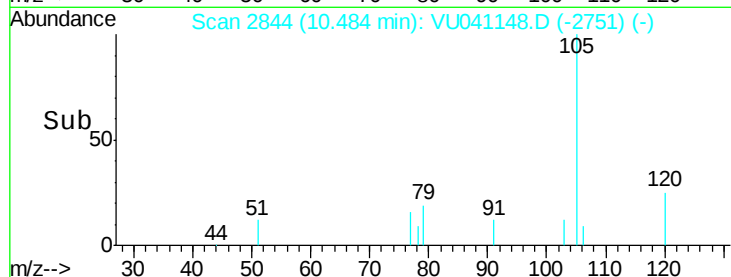
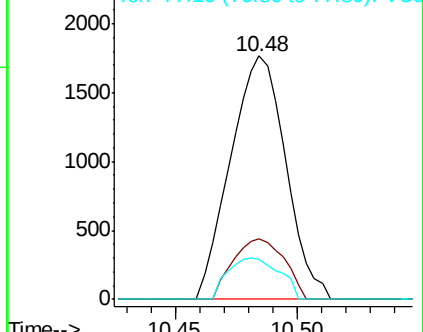
77 15.9 13.8 20.6



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): V



#59

1,2,3-Trichloropropane

Concen: 1.112 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.99 min

Lab File: VU041148.D

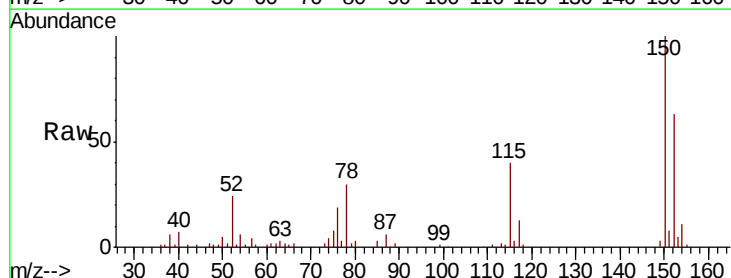
Acq: 09 Nov 2020 18:04

Tgt Ion: 75 Resp: 4620

Ion Ratio Lower Upper

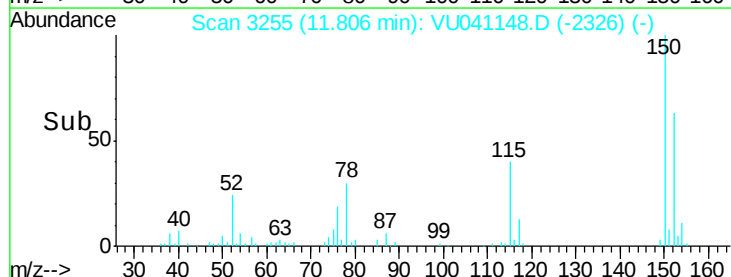
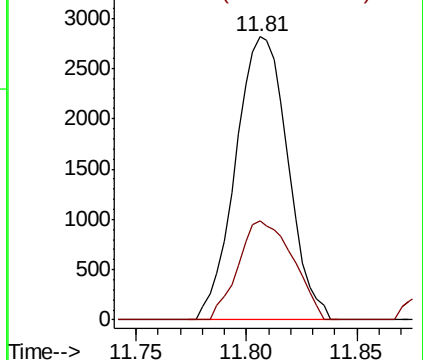
75 100

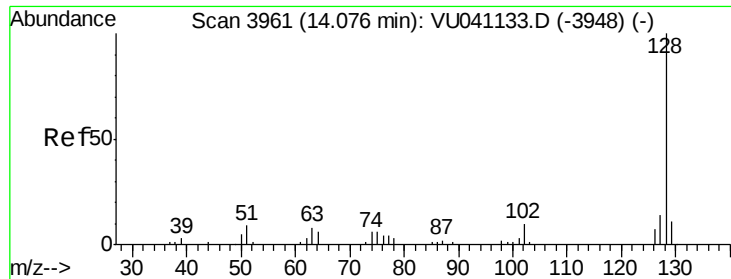
77 36.5 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0





#69

Naphthalene

Concen: 0.273 ug/L

RT: 14.08 min Scan# 3961

Delta R.T. -0.00 min

Lab File: VU041148.D

Acq: 09 Nov 2020 18:04

Instrument :

MSVOA_U

ClientSampleId :

GB0T9

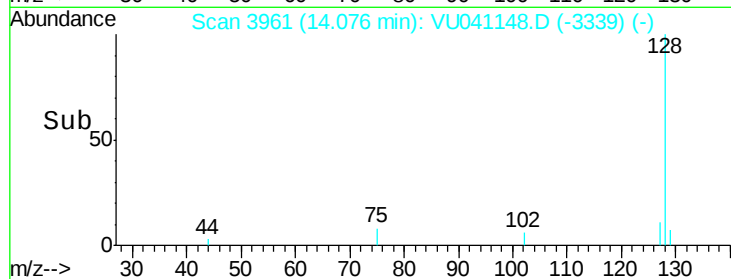
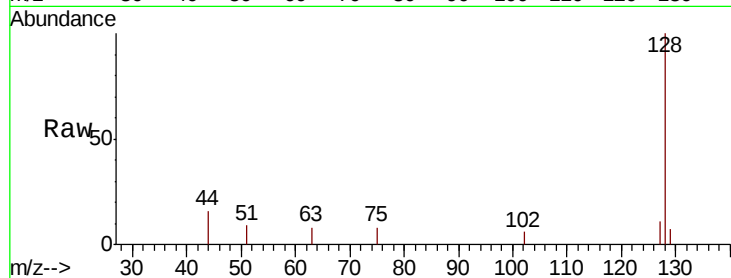
Tot Ion:128 Resp: 2732

Ion Ratio Lower Upper

128 100

129 6.0 8.7 13.1#

127 11.0 10.8 16.2



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

