

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U112420\
 Data File : VU041412.D
 Acq On : 24 Nov 2020 12:34
 Operator : SY/MD
 Sample : L4849-02DL 10X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 H4405DL

Quant Time: Nov 25 07:38:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR112320WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Nov 25 07:37:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	64821	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	68393	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	30583	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	18737	4.11	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	82.20%
7) Chloroethane-d5	1.92	69	14429	4.51	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.20%
11) 1,1-Dichloroethene-d2	2.58	63	31228	3.49	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	69.80%
20) 2-Butanone-d5	4.66	46	68052	58.63	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	117.26%
24) Chloroform-d	5.08	84	42316	4.56	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.20%
26) 1,2-Dichloroethane-d4	5.72	65	28986	5.36	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	107.20%
32) Benzene-d6	5.74	84	76539	4.58	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.60%
36) 1,2-Dichloropropane-d6	6.70	67	25039	4.70	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.00%
41) Toluene-d8	7.91	98	61775	3.91	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	78.20%
43) trans-1,3-Dichloropropene-	8.19	79	11161	4.62	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	92.40%
46) 2-Hexanone-d5	8.64	63	46622	58.95	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	117.90%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	23182	5.35	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	107.00%
64) 1,2-Dichlorobenzene-d4	12.19	152	25977	5.10	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	102.00%

Target Compounds

					Ovalue
5) Vinyl chloride	1.61	62	5287	0.933	ug/L 89
8) Chloroethane	2.12	64	205	0.064	ug/L # 40
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	206	0.046	ug/L # 21
12) 1,1-Dichloroethene	2.58	96	333	0.083	ug/L # 1
16) Methylene chloride	3.07	84	1177	0.206	ug/L 94
17) Methyl tert-butyl Ether	3.38	73	18550	1.866	ug/L 100
18) trans-1,2-Dichloroethene	3.37	96	1436	0.332	ug/L 87
19) 1,1-Dichloroethane	3.88	63	809	0.094	ug/L # 85
22) cis-1,2-Dichloroethene	4.68	96	39957	8.680	ug/L 98
25) Chloroform	5.11	83	2370	0.250	ug/L 95
27) 1,2-Dichloroethane	5.75	62	491	0.080	ug/L # 78
33) Benzene	5.79	78	424	0.023	ug/L 100
34) Trichloroethene	6.55	95	45108	9.029	ug/L 97
35) Methylcyclohexane	6.70	83	6576	0.903	ug/L # 15
37) 1,2-Dichloropropane	6.70	63	3300	0.656	ug/L # 90
39) cis-1,3-Dichloropropene	7.57	75	838	0.121	ug/L # 83
44) trans-1,3-Dichloropropene	8.19	75	422	0.067	ug/L # 46

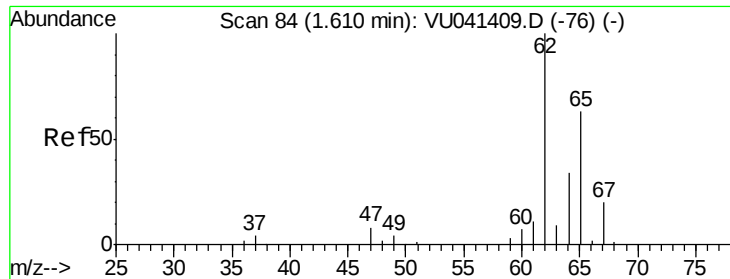
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU112420\
Data File : VU041412.D
Acq On : 24 Nov 2020 12:34
Operator : SY/MD
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Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Nov 25 07:37:29 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Tetrachloroethene	8.56	164	522	0.140	ug/L	82
48) 2-Hexanone	8.64	43	7017	3.097	ug/L #	66
49) Dibromochloromethane	8.56	129	562	0.128	ug/L #	10
59) 1,2,3-Trichloropropane	11.81	75	3752	1.141	ug/L #	87

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



#5

Vinyl chloride

Concen: 0.933 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU041412.D

Acq: 24 Nov 2020 12:34

Instrument :

MSVOA_U

ClientSampleID :

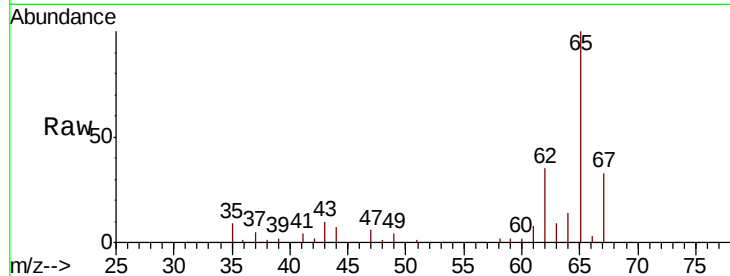
H4405DL

Tot Ion: 62 Resp: 5287

Ion Ratio Lower Upper

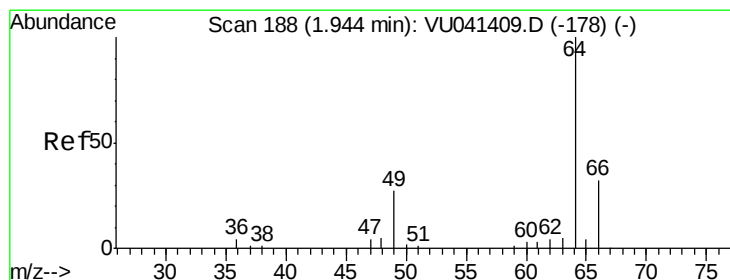
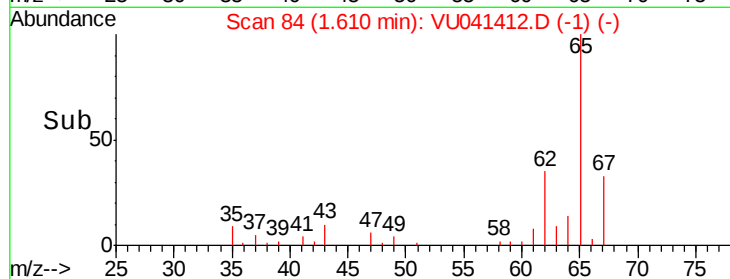
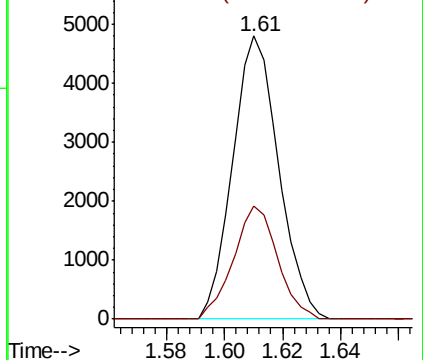
62 100

64 40.1 23.8 44.2



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#8

Chloroethane

Concen: 0.064 ug/L

RT: 2.12 min Scan# 244

Delta R.T. 0.18 min

Lab File: VU041412.D

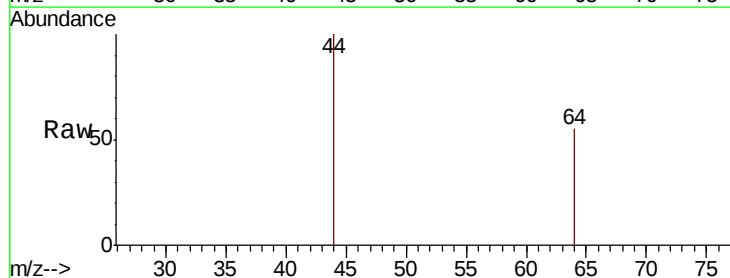
Acq: 24 Nov 2020 12:34

Tgt Ion: 64 Resp: 205

Ion Ratio Lower Upper

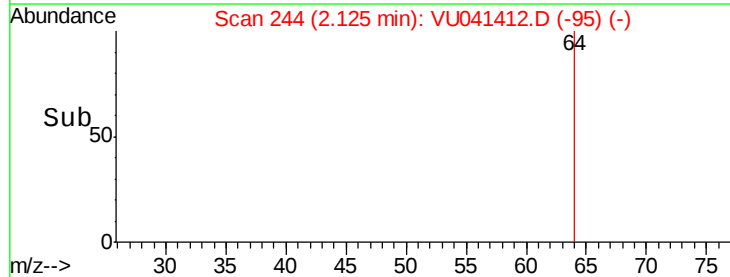
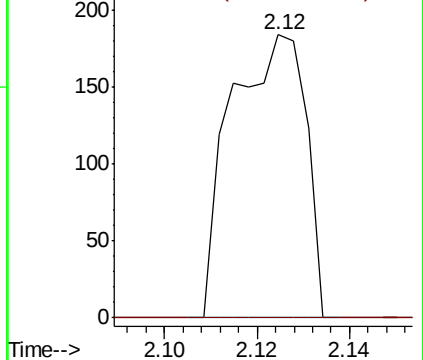
64 100

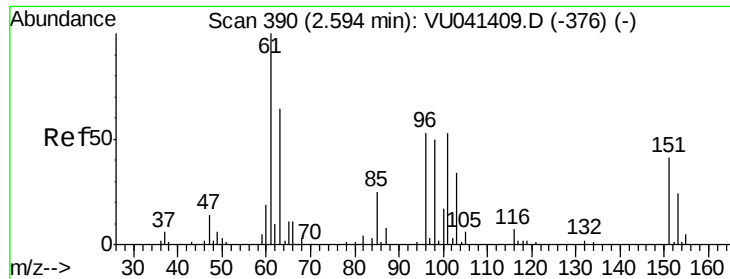
66 0.0 24.6 45.8#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0





#10

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

Concen: 0.046 ug/L

RT: 2.58 min Scan# 385

Delta R.T. -0.02 min

Lab File: VU041412.D

Acq: 24 Nov 2020 12:34

Instrument :

MSVOA_U

ClientSampleID :

H4405DL

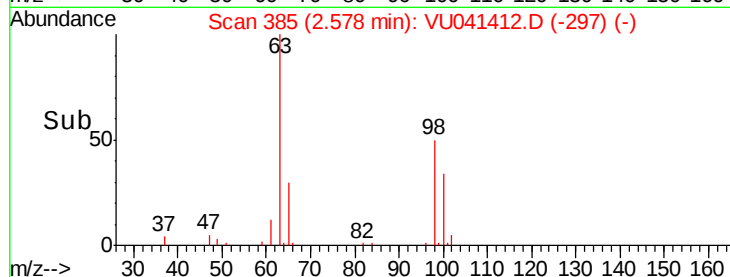
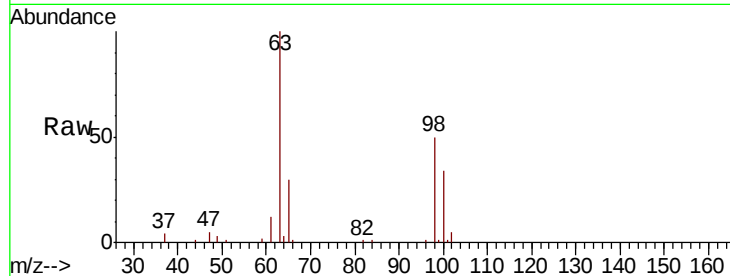
Tot Ion:101 Resp: 206

Ion Ratio Lower Upper

101 100

85 0.0 35.1 52.7#

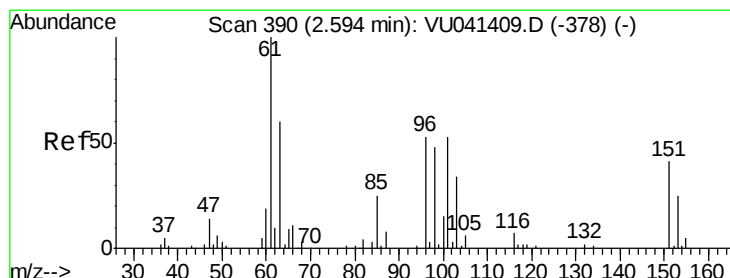
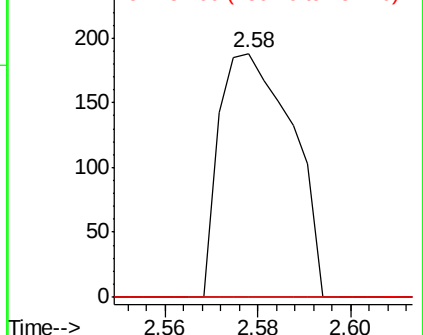
151 0.0 56.2 84.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.083 ug/L

RT: 2.58 min Scan# 386

Delta R.T. -0.01 min

Lab File: VU041412.D

Acq: 24 Nov 2020 12:34

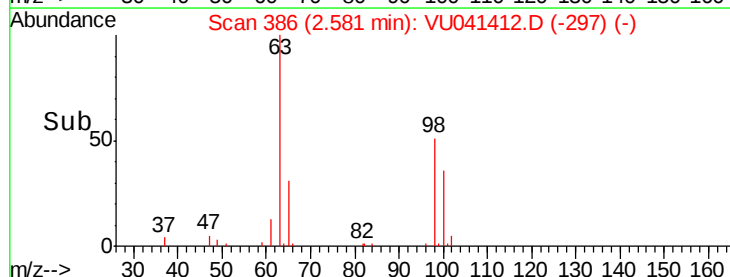
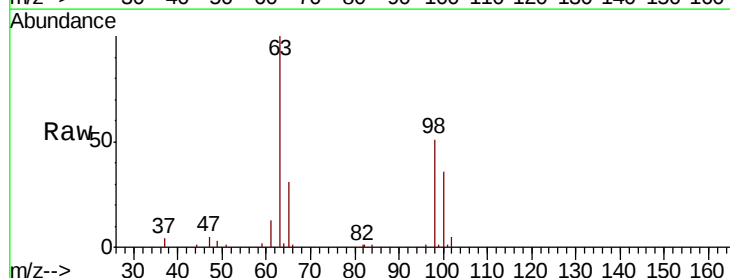
Tgt Ion: 96 Resp: 333

Ion Ratio Lower Upper

96 100

61 962.3 129.8 241.2#

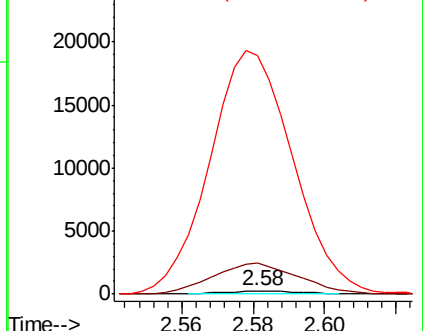
63 7488.9 79.2 147.0#

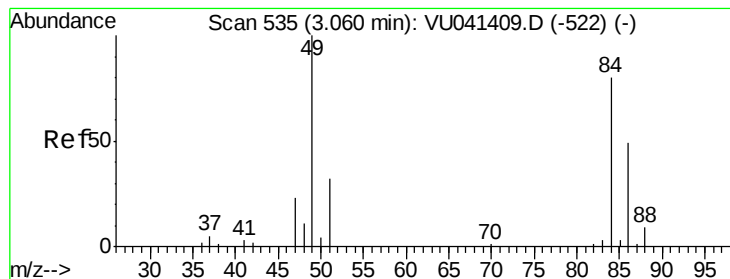


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#16

Methylene chloride

Concen: 0.206 ug/L

RT: 3.07 min Scan# 537

Delta R.T. 0.01 min

Lab File: VU041412.D

Acq: 24 Nov 2020 12:34

Instrument :

MSVOA_U

ClientSampleId :

H4405DL

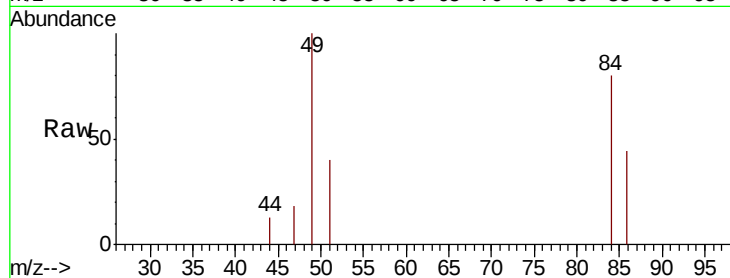
Tot Ion: 84 Resp: 1177

Ion Ratio Lower Upper

84 100

86 55.2 44.4 82.5

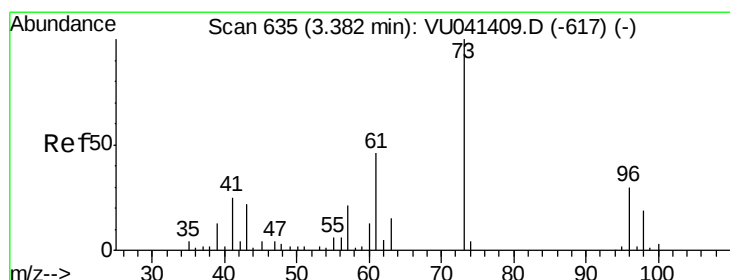
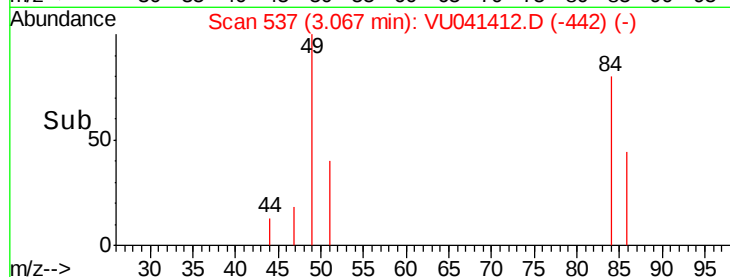
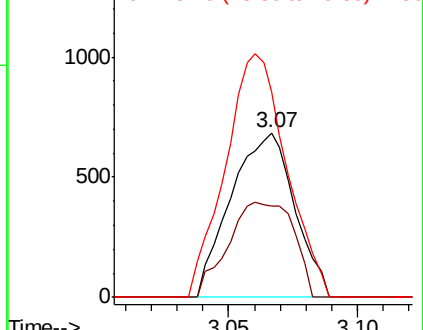
49 125.0 89.9 167.0



Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0



#17

Methyl tert-butyl Ether

Concen: 1.866 ug/L

RT: 3.38 min Scan# 634

Delta R.T. -0.00 min

Lab File: VU041412.D

Acq: 24 Nov 2020 12:34

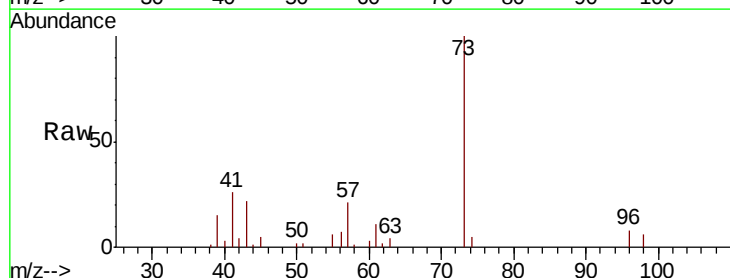
Tgt Ion: 73 Resp: 18550

Ion Ratio Lower Upper

73 100

43 23.0 18.3 27.5

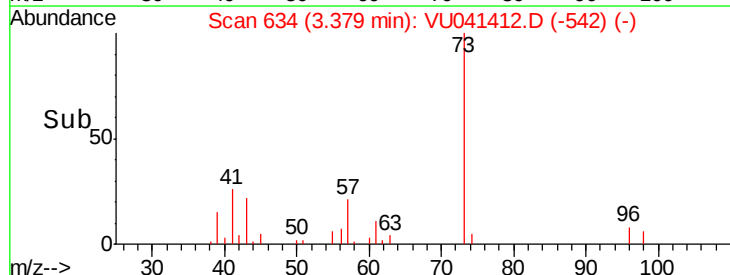
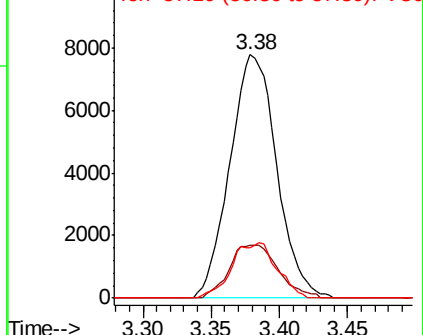
57 21.9 17.7 26.5

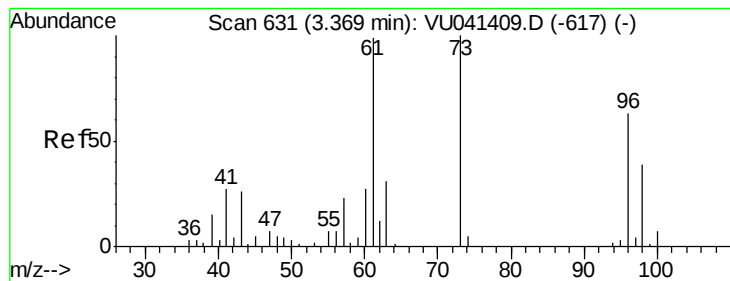


Abundance Ion 73.10 (72.80 to 73.80): VU0

Ion 43.05 (42.75 to 43.75): VU0

Ion 57.10 (56.80 to 57.80): VU0





#18

trans-1,2-Dichloroethene

Concen: 0.332 ug/L

RT: 3.37 min Scan# 630

Delta R.T. -0.00 min

Lab File: VU041412.D

Acq: 24 Nov 2020 12:34

Instrument :

MSVOA_U

ClientSampleId :

H4405DL

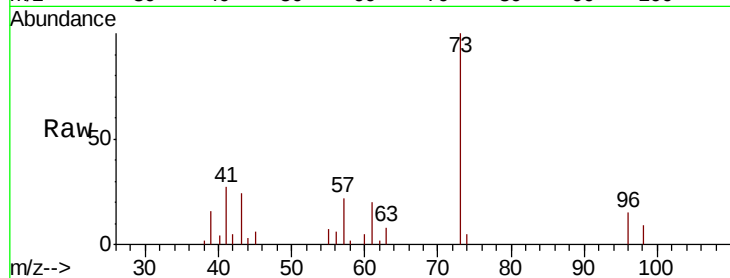
Tot Ion: 96 Resp: 1436

Ion Ratio Lower Upper

96 100

61 128.9 103.7 192.5

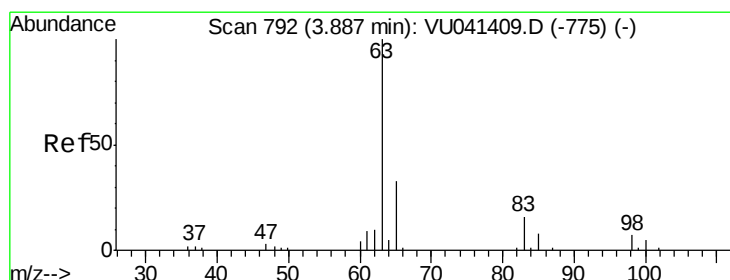
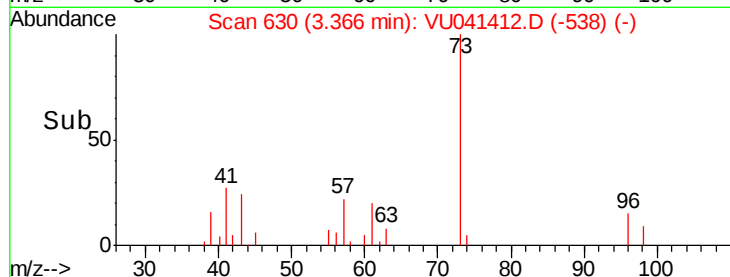
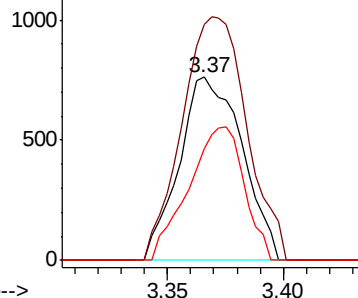
98 61.2 47.5 88.3



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 97.95 (97.65 to 98.65): VU0



#19

1,1-Dichloroethane

Concen: 0.094 ug/L

RT: 3.88 min Scan# 790

Delta R.T. -0.01 min

Lab File: VU041412.D

Acq: 24 Nov 2020 12:34

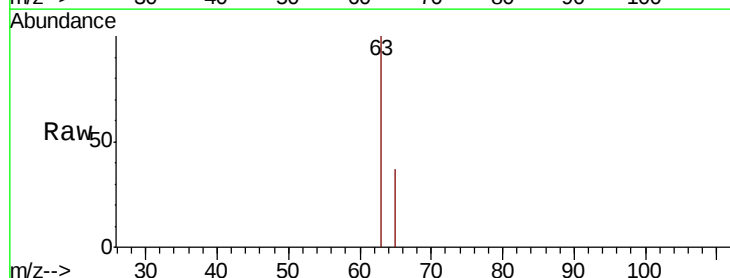
Tgt Ion: 63 Resp: 809

Ion Ratio Lower Upper

63 100

65 37.2 23.0 42.8

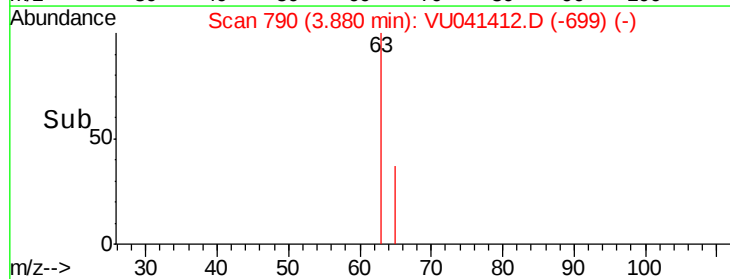
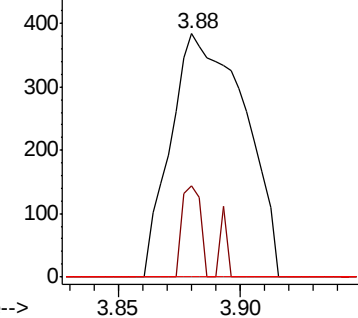
83 0.0 9.4 17.4#

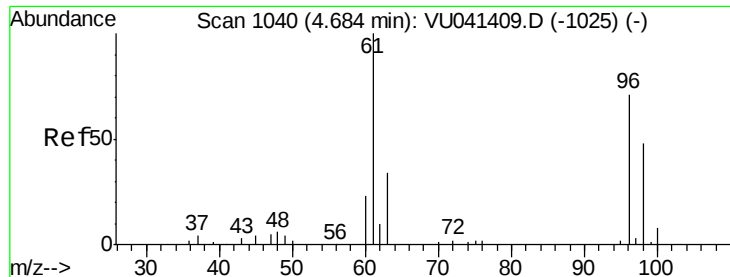


Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 65.10 (64.80 to 65.80): VU0

Ion 83.05 (82.75 to 83.75): VU0

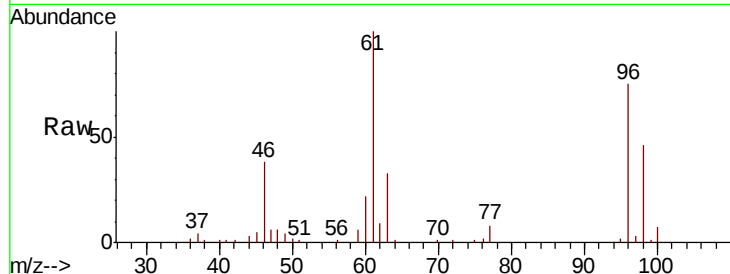




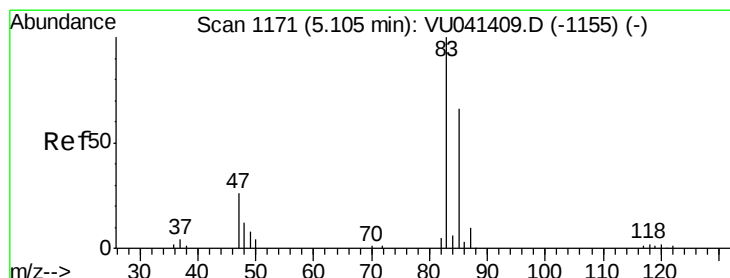
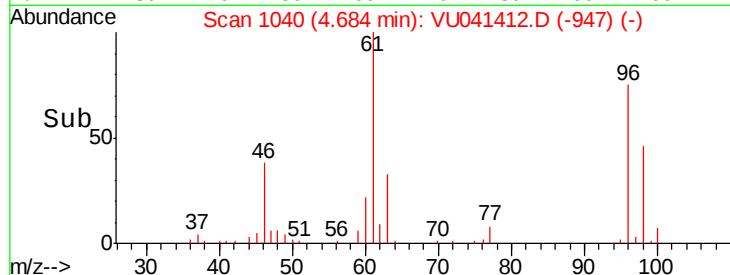
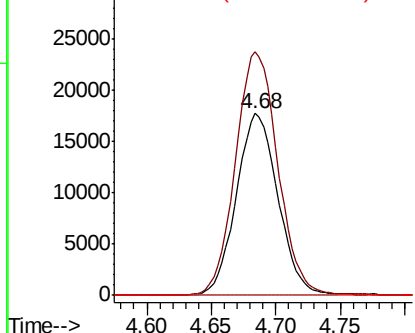
#22
 cis-1,2-Dichloroethene
 Concen: 8.680 ug/L
 RT: 4.68 min Scan# 1040
 Delta R.T. 0.00 min
 Lab File: VU041412.D
 Acq: 24 Nov 2020 12:34

Instrument :
 MSVOA_U
 ClientSampleId :
 H4405DL

Tot Ion: 96 Resp: 39957
 Ion Ratio Lower Upper
 96 100
 61 134.0 95.3 176.9
 68 0.0 0.0 0.0

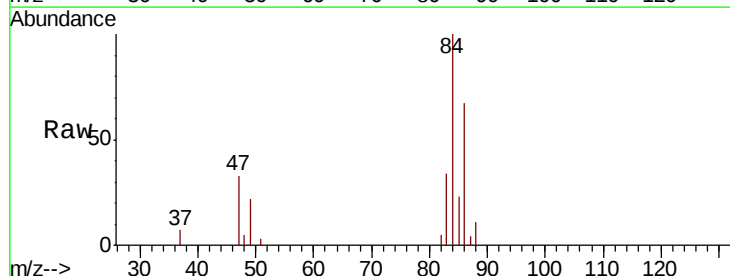


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

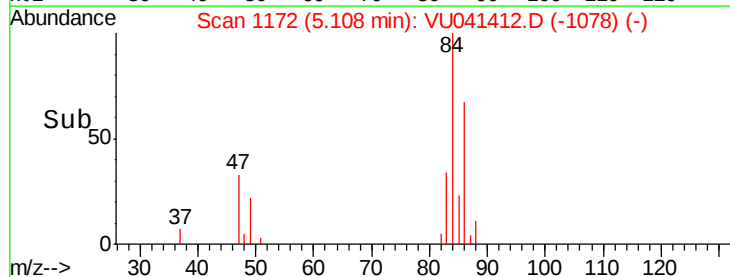
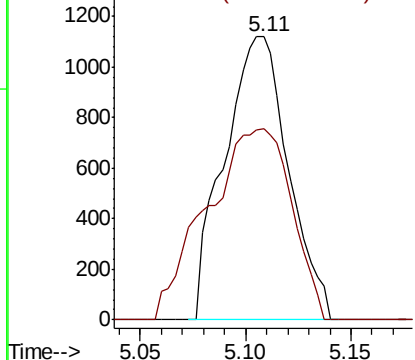


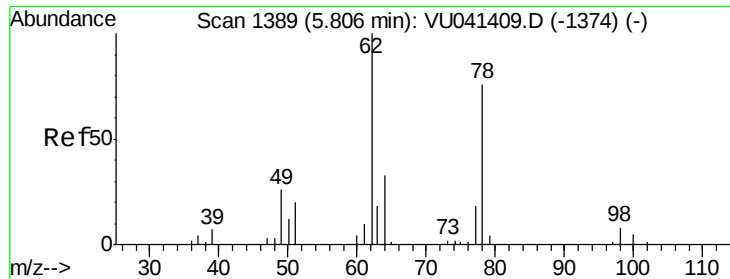
#25
 Chloroform
 Concen: 0.250 ug/L
 RT: 5.11 min Scan# 1172
 Delta R.T. 0.00 min
 Lab File: VU041412.D
 Acq: 24 Nov 2020 12:34

Tgt Ion: 83 Resp: 2370
 Ion Ratio Lower Upper
 83 100
 85 67.3 44.7 82.9



Abundance Ion 83.05 (82.75 to 83.75): VU0
 Ion 85.00 (84.70 to 85.70): VU0

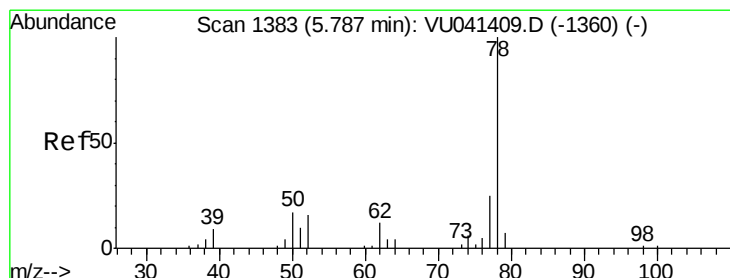
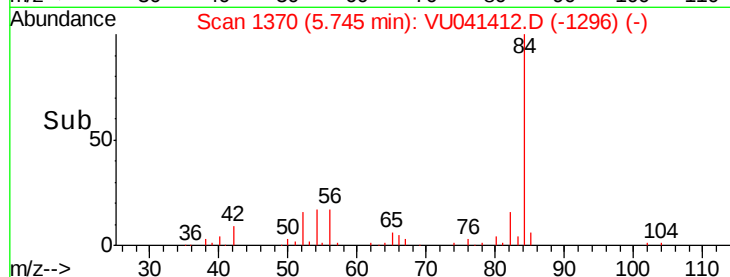
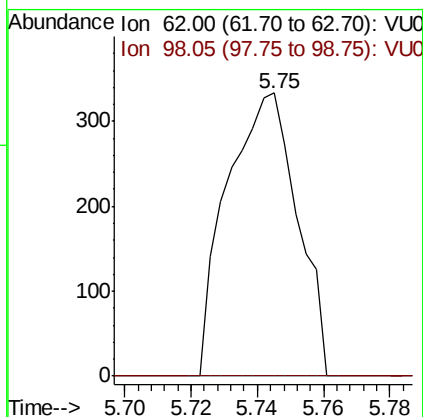
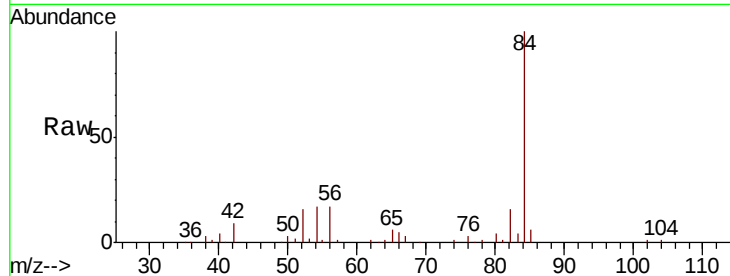




#27
 1,2-Dichloroethane
 Concen: 0.080 ug/L
 RT: 5.75 min Scan# 1370
 Delta R.T. -0.06 min
 Lab File: VU041412.D
 Acq: 24 Nov 2020 12:34

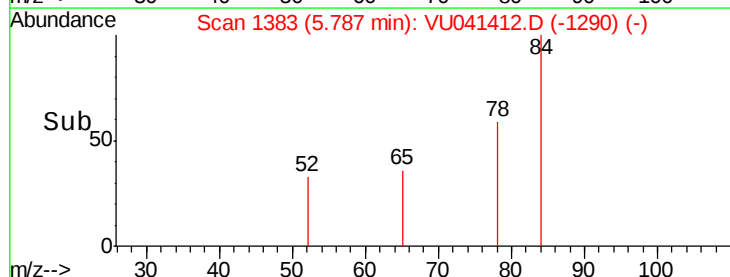
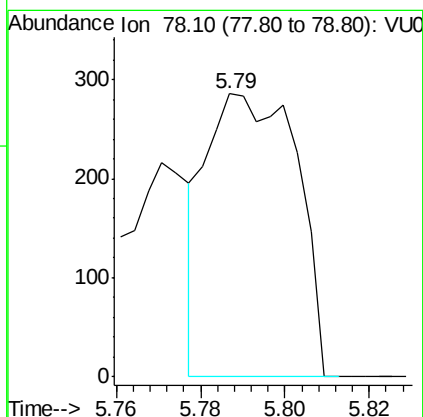
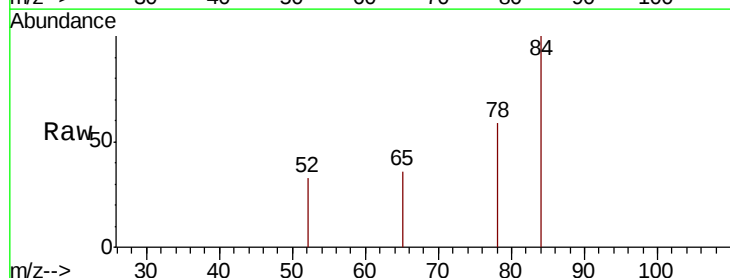
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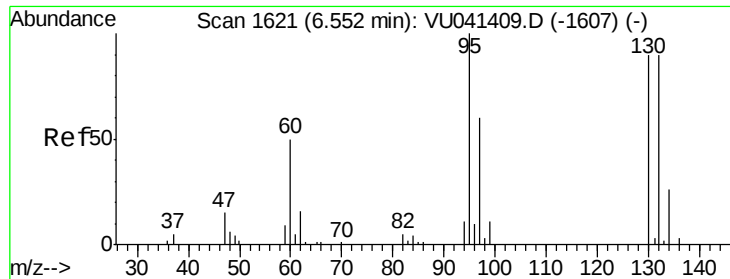
Tot Ion: 62 Resp: 491
 Ion Ratio Lower Upper
 62 100
 98 0.0 6.0 9.0#



#33
 Benzene
 Concen: 0.023 ug/L
 RT: 5.79 min Scan# 1383
 Delta R.T. 0.00 min
 Lab File: VU041412.D
 Acq: 24 Nov 2020 12:34

Tgt Ion: 78 Resp: 424

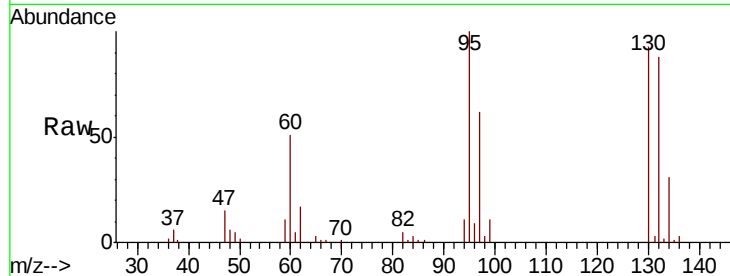




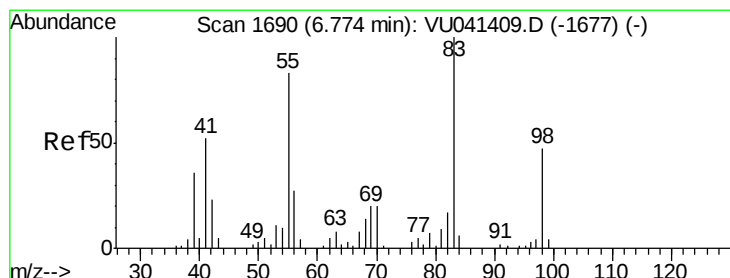
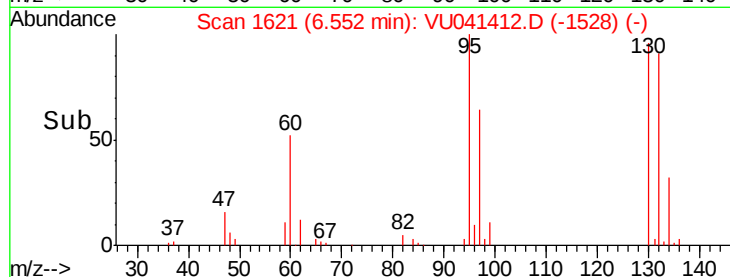
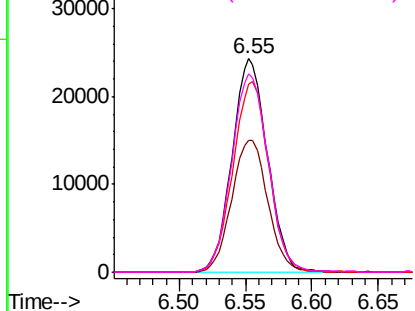
#34
Trichloroethene
Concen: 9.029 ug/L
RT: 6.55 min Scan# 1621
Delta R.T. 0.00 min
Lab File: VU041412.D
Acq: 24 Nov 2020 12:34

Instrument :
MSVOA_U
ClientSampleID :
H4405DL

Tot Ion: 95 Resp: 45108
Ion Ratio Lower Upper
95 100
97 62.0 46.5 86.5
132 87.9 60.8 113.0
130 92.7 63.3 117.7

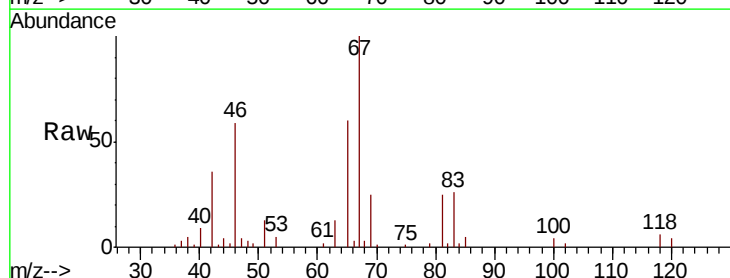


Abundance Ion 95.00 (94.70 to 95.70): VU0
Ion 96.95 (96.65 to 97.65): VU0
Ion 131.95 (131.65 to 132.65): V
Ion 129.95 (129.65 to 130.65): V

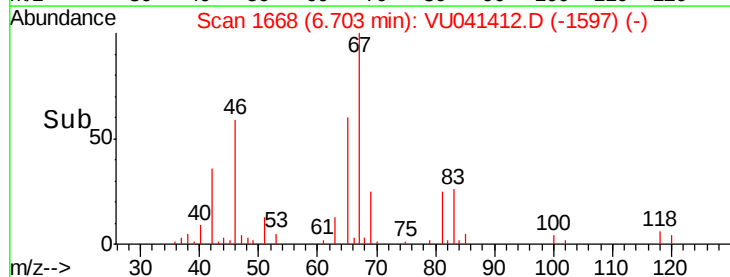
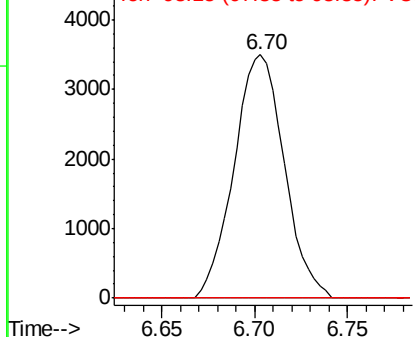


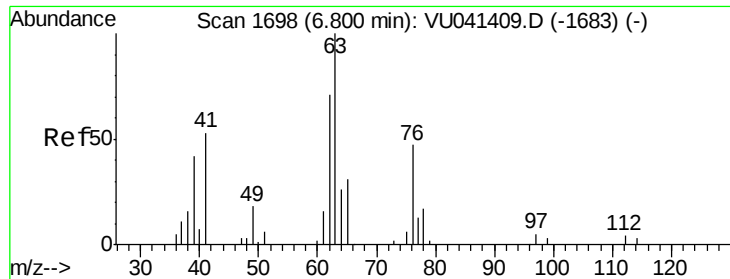
#35
Methylcyclohexane
Concen: 0.903 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.07 min
Lab File: VU041412.D
Acq: 24 Nov 2020 12:34

Tgt Ion: 83 Resp: 6576
Ion Ratio Lower Upper
83 100
55 0.0 68.4 102.6#
98 0.0 36.5 54.7#



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

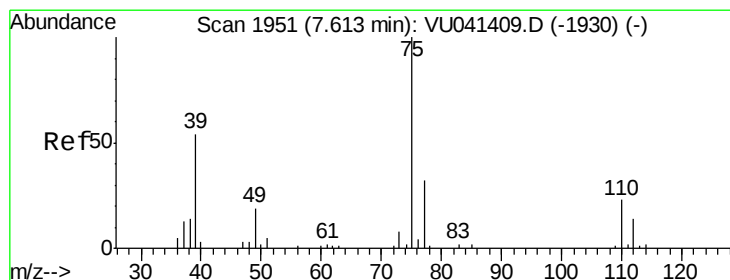
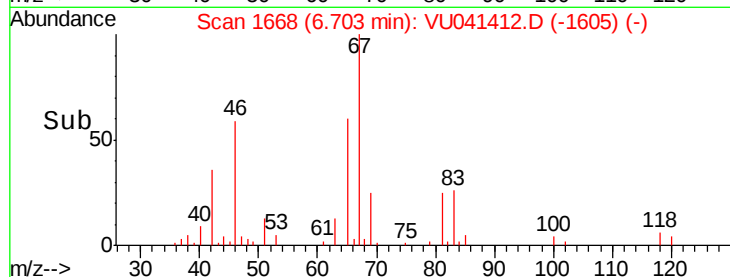
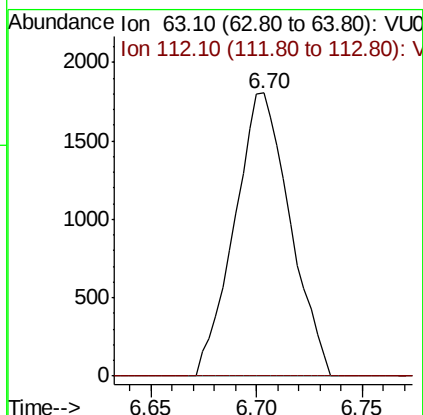
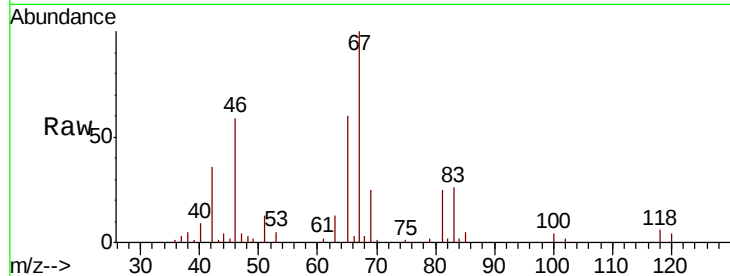




#37
 1,2-Dichloropropane
 Concen: 0.656 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.10 min
 Lab File: VU041412.D
 Acq: 24 Nov 2020 12:34

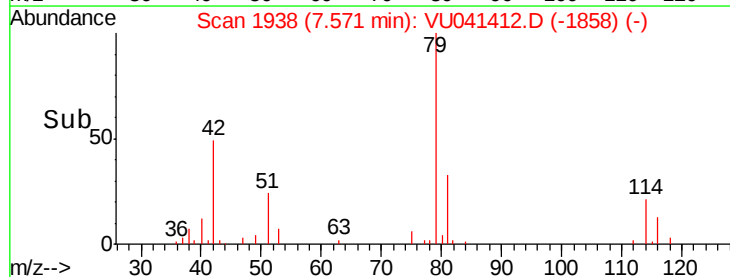
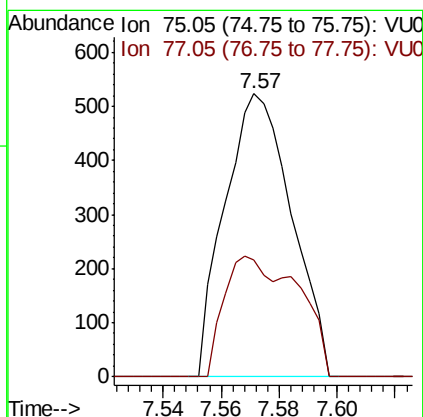
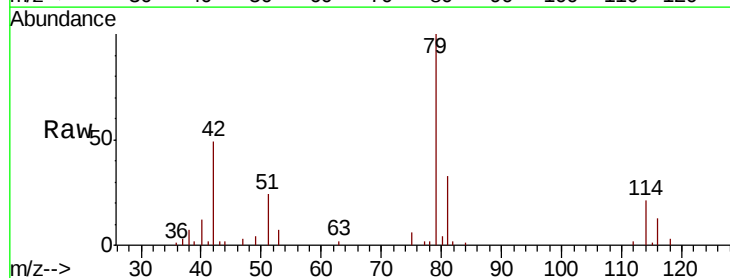
Instrument :
 MSVOA_U
 ClientSampleId :
 H4405DL

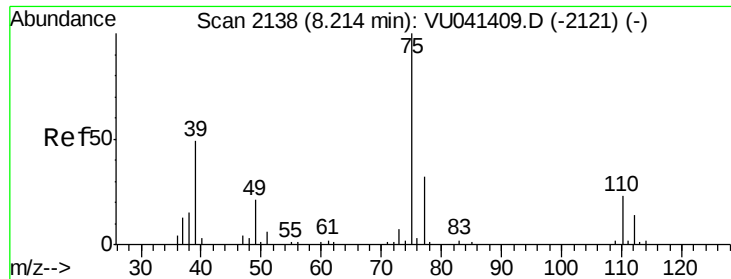
Tot Ion: 63 Resp: 3300
 Ion Ratio Lower Upper
 63 100
 112 0.0 2.6 4.0#



#39
 cis-1,3-Dichloropropene
 Concen: 0.121 ug/L
 RT: 7.57 min Scan# 1938
 Delta R.T. -0.04 min
 Lab File: VU041412.D
 Acq: 24 Nov 2020 12:34

Tgt Ion: 75 Resp: 838
 Ion Ratio Lower Upper
 75 100
 77 41.1 22.1 41.1#

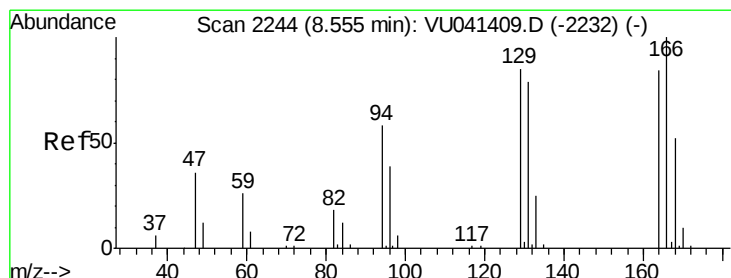
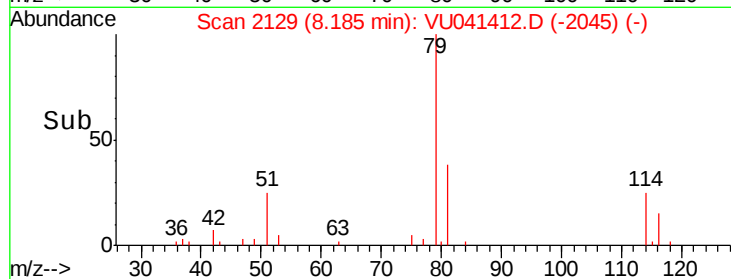
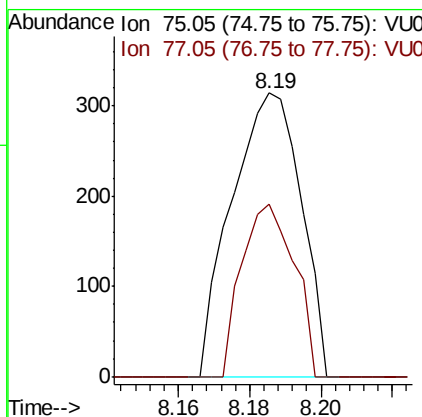
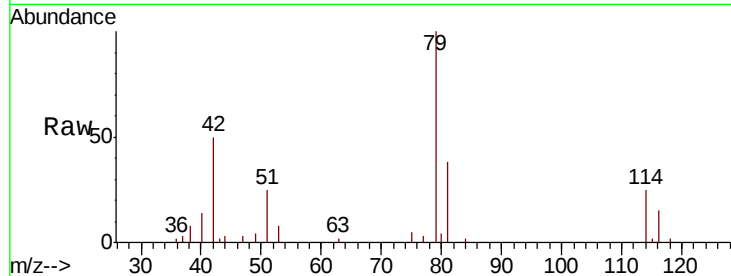




#44
trans-1,3-Dichloropropene
Concen: 0.067 ug/L
RT: 8.19 min Scan# 2129
Delta R.T. -0.03 min
Lab File: VU041412.D
Acq: 24 Nov 2020 12:34

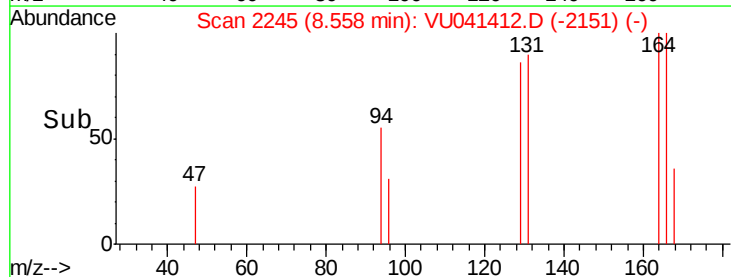
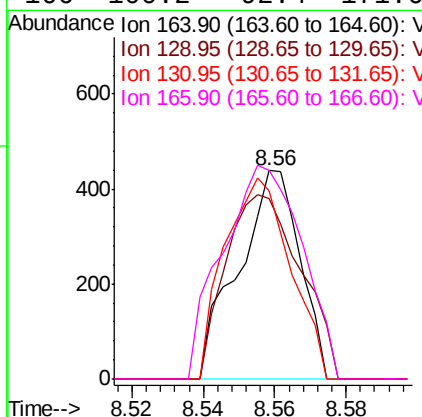
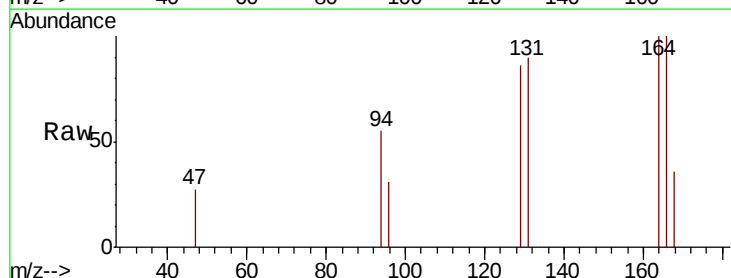
Instrument :
MSVOA_U
ClientSampleId :
H4405DL

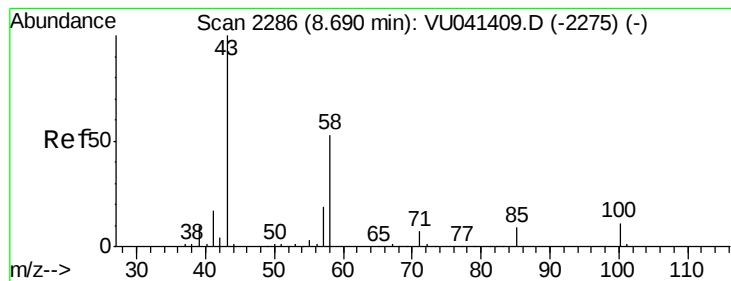
Tot Ion: 75 Resp: 422
Ion Ratio Lower Upper
75 100
77 60.8 21.7 40.3#



#47
Tetrachloroethene
Concen: 0.140 ug/L
RT: 8.56 min Scan# 2245
Delta R.T. 0.00 min
Lab File: VU041412.D
Acq: 24 Nov 2020 12:34

Tgt Ion:164 Resp: 522
Ion Ratio Lower Upper
164 100
129 86.6 71.0 131.9
131 90.4 69.0 128.1
166 100.2 92.4 171.6





#48

2-Hexanone

Concen: 3.097 ug/L

RT: 8.64 min Scan# 2270

Delta R.T. -0.05 min

Lab File: VU041412.D

Acq: 24 Nov 2020 12:34

Instrument :

MSVOA_U

ClientSampleId :

H4405DL

Tot Ion: 43 Resp: 7017

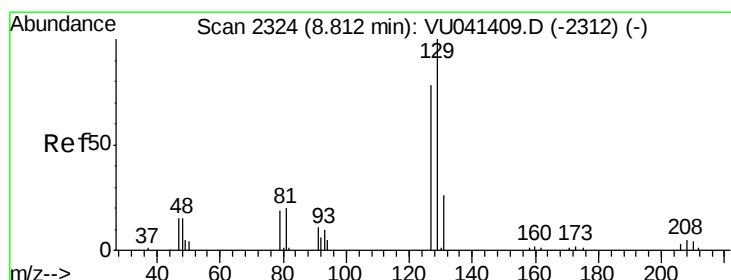
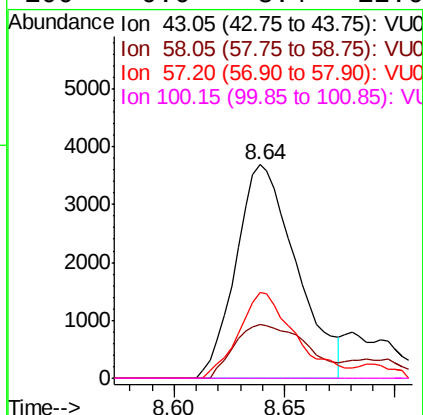
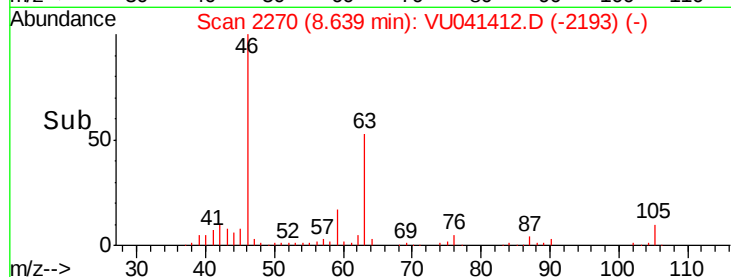
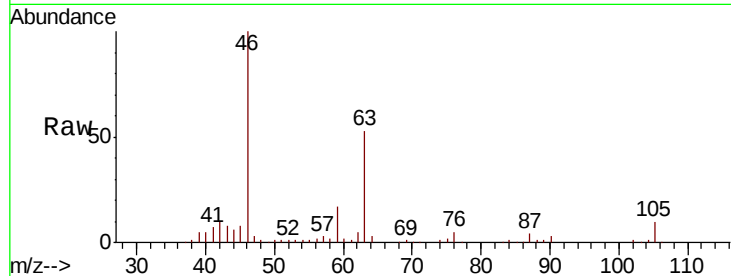
Ion Ratio Lower Upper

43 100

58 30.0 42.0 63.0#

57 37.6 15.0 22.4#

100 0.0 8.4 12.6#



#49

Dibromochloromethane

Concen: 0.128 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.26 min

Lab File: VU041412.D

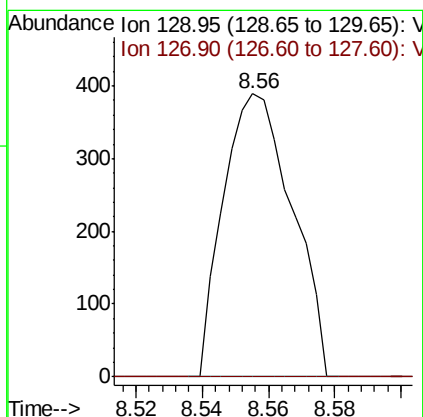
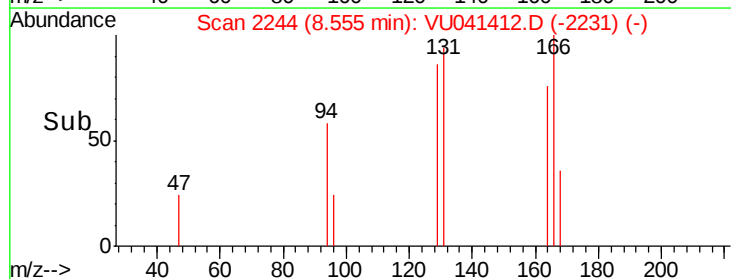
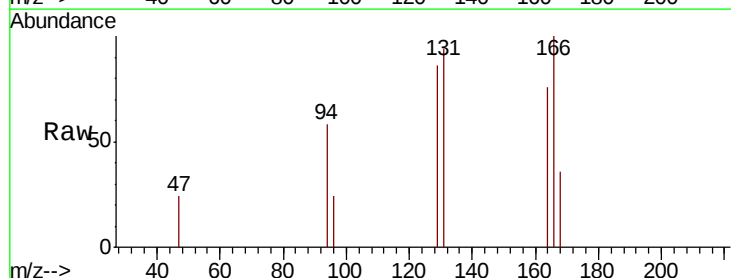
Acq: 24 Nov 2020 12:34

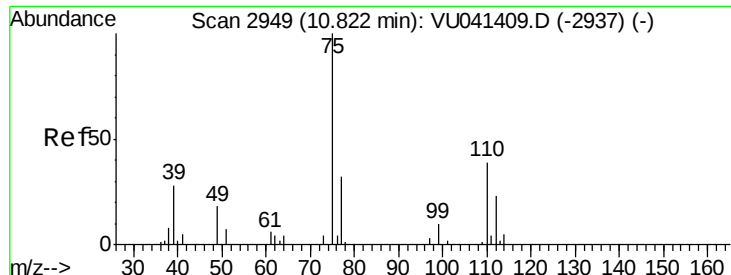
Tgt Ion: 129 Resp: 562

Ion Ratio Lower Upper

129 100

127 0.0 55.6 103.4#





#59

1,2,3-Trichloropropane

Concen: 1.141 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU041412.D

Acq: 24 Nov 2020 12:34

Instrument :

MSVOA_U

ClientSampleId :

H4405DL

Tot Ion: 75 Resp: 3752

Ion Ratio Lower Upper

75 100

77 38.5 25.1 37.7#

