

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U112420\
 Data File : VU041413.D
 Acq On : 24 Nov 2020 12:57
 Operator : SY/MD
 Sample : L4849-04DL 10X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 H4407DL

Quant Time: Nov 25 07:38:56 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	65051	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	68652	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	30109	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	19204	4.20	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	84.00%
7) Chloroethane-d5	1.92	69	15224	4.74	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	94.80%
11) 1,1-Dichloroethene-d2	2.58	63	32550	3.63	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	72.60%
20) 2-Butanone-d5	4.65	46	75672	64.97	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	129.94%
24) Chloroform-d	5.08	84	44321	4.76	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.20%
26) 1,2-Dichloroethane-d4	5.72	65	30506	5.62	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	112.40%
32) Benzene-d6	5.74	84	79331	4.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.60%
36) 1,2-Dichloropropane-d6	6.70	67	23134	4.33	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	86.60%
41) Toluene-d8	7.91	98	67713	4.27	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.40%
43) trans-1,3-Dichloropropene-	8.19	79	11500	4.74	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.80%
46) 2-Hexanone-d5	8.64	63	46960	59.15	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	118.30%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	24325	5.59	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	111.80%
64) 1,2-Dichlorobenzene-d4	12.19	152	26784	5.34	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	106.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.61	62	5337	0.939	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	202	0.045	ug/L #	21
16) Methylene chloride	3.06	84	1140	0.199	ug/L	91
17) Methyl tert-butyl Ether	3.38	73	7347	0.737	ug/L #	86
18) trans-1,2-Dichloroethene	3.37	96	3991	0.919	ug/L	93
19) 1,1-Dichloroethane	3.90	63	692	0.080	ug/L #	78
22) cis-1,2-Dichloroethene	4.68	96	46101	9.979	ug/L	96
25) Chloroform	5.11	83	2205	0.232	ug/L	92
27) 1,2-Dichloroethane	5.74	62	539	0.087	ug/L #	78
33) Benzene	5.79	78	556	0.030	ug/L	100
34) Trichloroethene	6.55	95	23600	4.706	ug/L	92
35) Methylcyclohexane	6.70	83	6063	0.829	ug/L #	15
37) 1,2-Dichloropropane	6.70	63	3207	0.635	ug/L #	90
39) cis-1,3-Dichloropropene	7.57	75	753	0.108	ug/L #	68
44) trans-1,3-Dichloropropene	8.19	75	580	0.091	ug/L #	74
47) Tetrachloroethene	8.55	164	413	0.110	ug/L #	61
48) 2-Hexanone	8.69	43	1215	0.534	ug/L #	72

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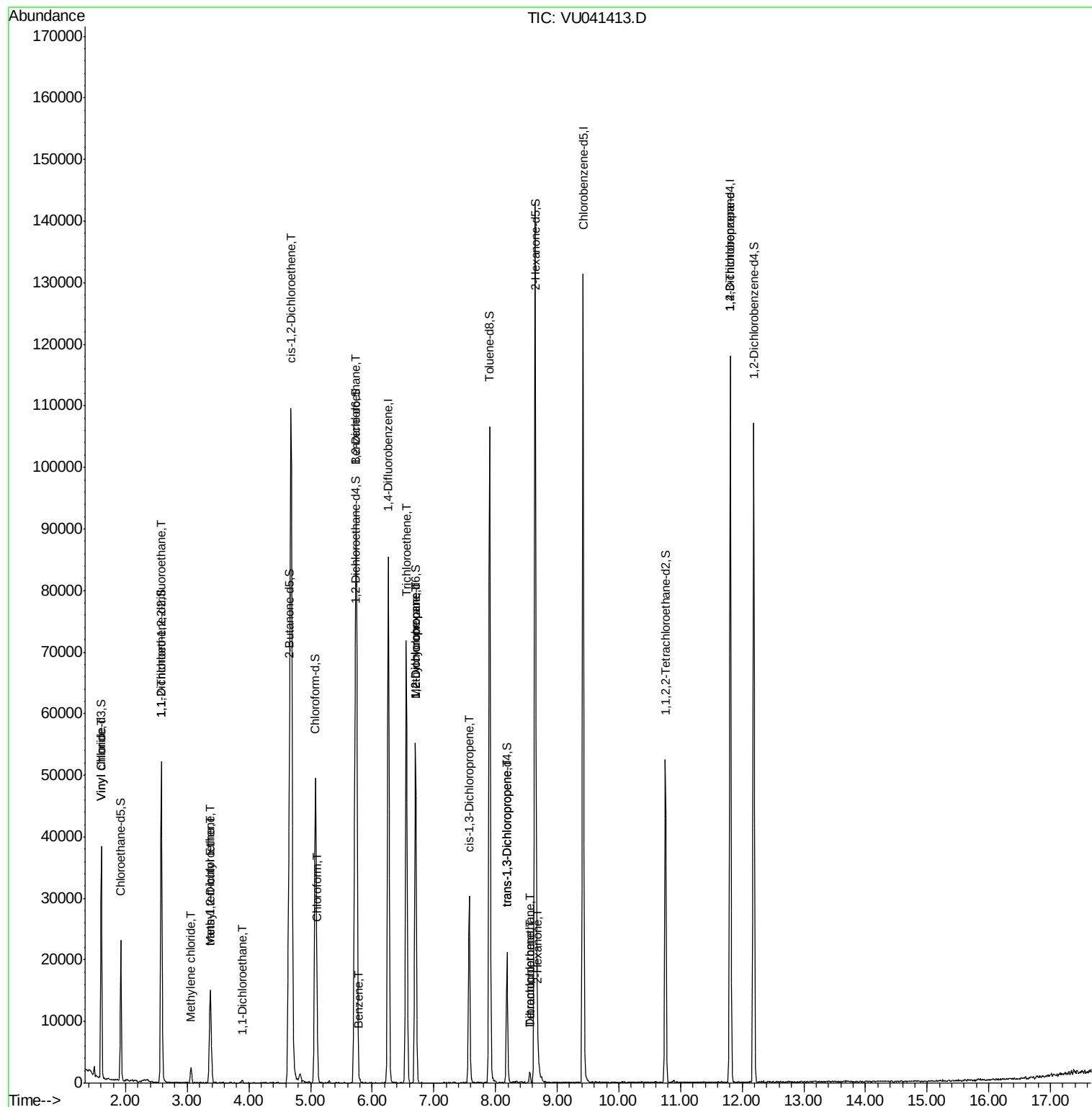
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Dibromochloromethane	8.56	129	351	0.080	ug/L #	10
59) 1,2,3-Trichloropropane	11.81	75	3428	1.039	ug/L #	78

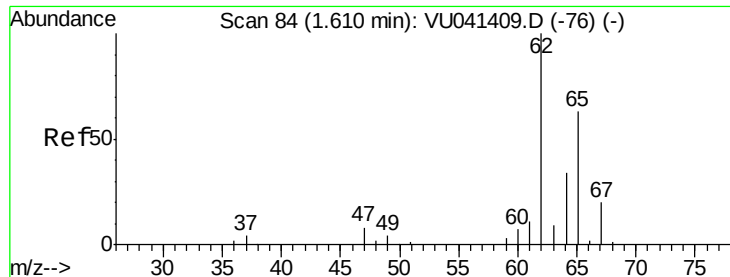
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.939 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU041413.D

Acq: 24 Nov 2020 12:57

Instrument :

MSVOA_U

ClientSampleId :

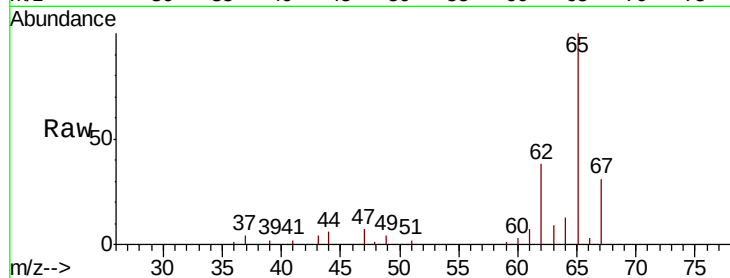
H4407DL

Tot Ion: 62 Resp: 5337

Ion Ratio Lower Upper

62 100

64 35.1 23.8 44.2

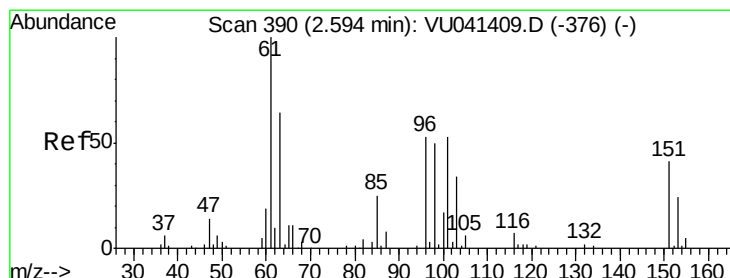
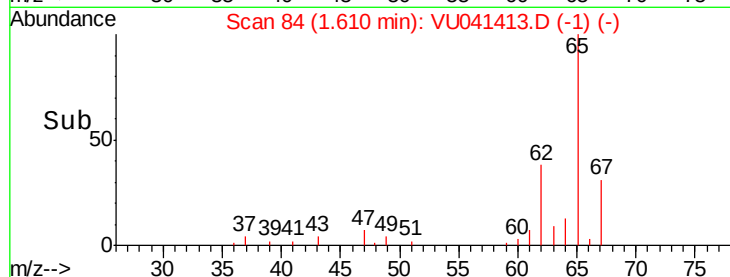


Abundance Ion 62.00 (61.70 to 62.70): VU041409.D (-76) (-)

Ion 64.10 (63.80 to 64.80): VU041409.D (-76) (-)

1.61

Time-->



#10

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

Concen: 0.045 ug/L

RT: 2.58 min Scan# 385

Delta R.T. -0.02 min

Lab File: VU041413.D

Acq: 24 Nov 2020 12:57

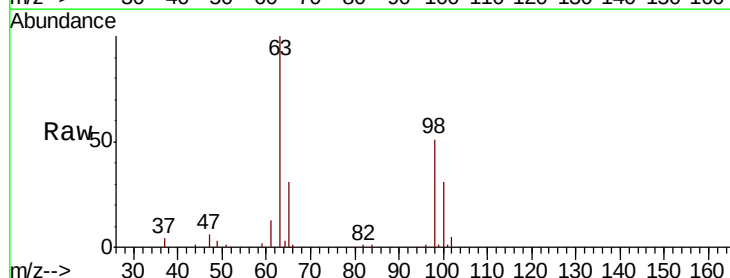
Tgt Ion: 101 Resp: 202

Ion Ratio Lower Upper

101 100

85 0.0 35.1 52.7#

151 0.0 56.2 84.2#



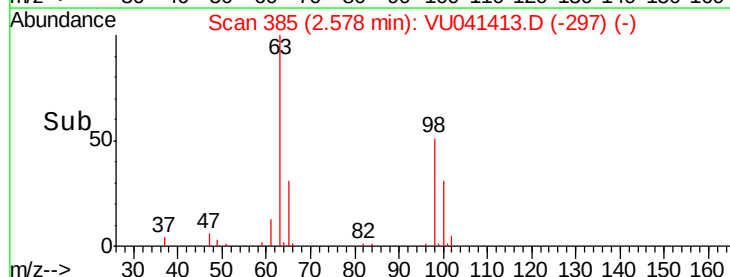
Abundance Ion 101.00 (100.70 to 101.70): VU041409.D (-376) (-)

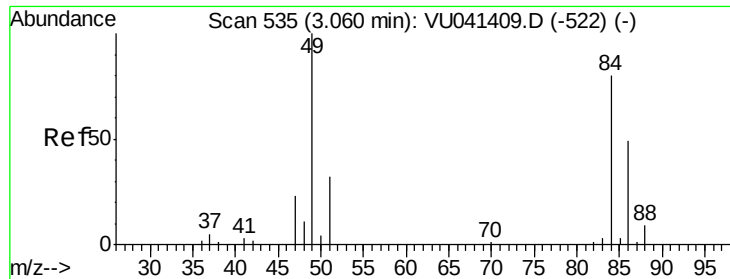
Ion 85.00 (84.70 to 85.70): VU041409.D (-376) (-)

Ion 151.00 (150.70 to 151.70): VU041409.D (-376) (-)

2.58

Time-->

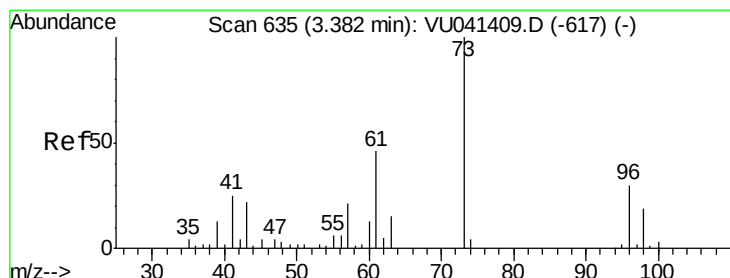
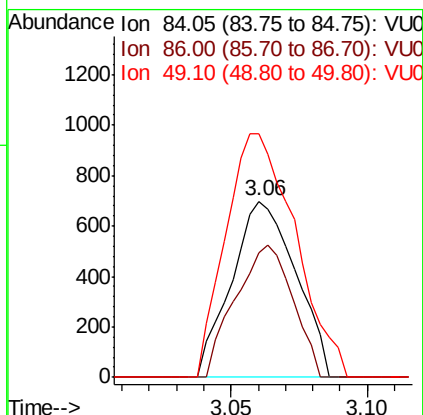
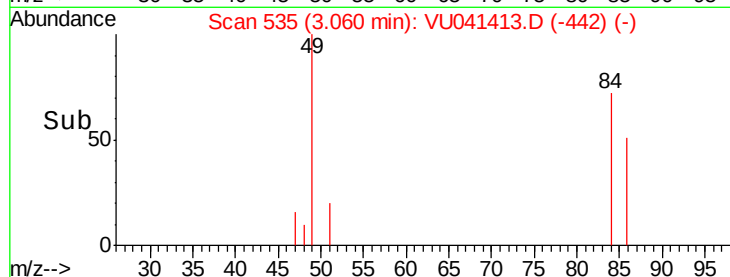
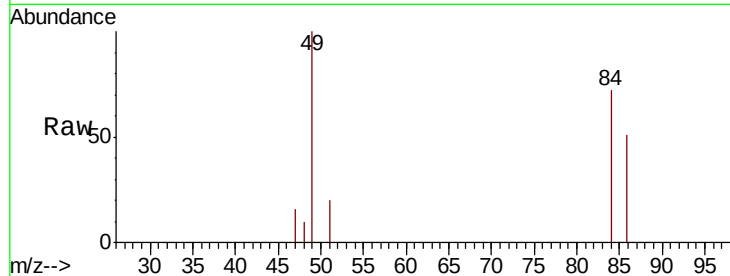




#16
Methylene chloride
Concen: 0.199 ug/L
RT: 3.06 min Scan# 535
Delta R.T. 0.00 min
Lab File: VU041413.D
Acq: 24 Nov 2020 12:57

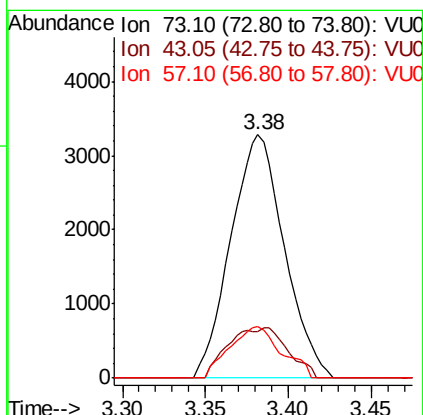
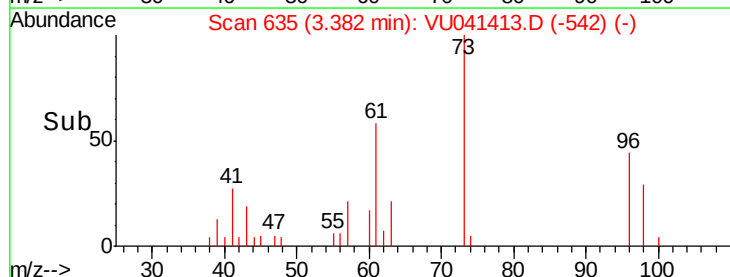
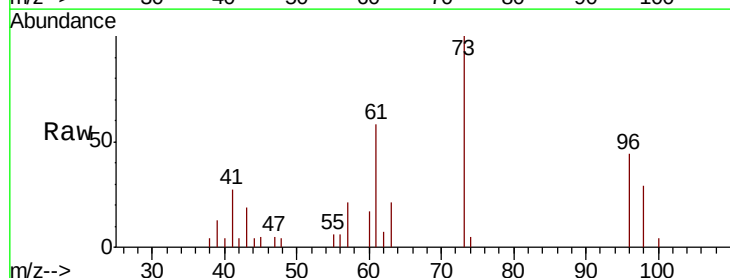
Instrument :
MSVOA_U
ClientSampleId :
H4407DL

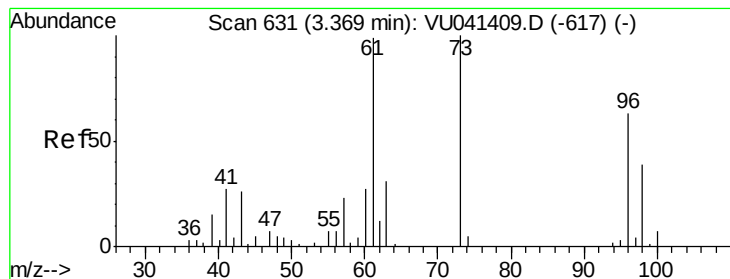
Tot Ion: 84 Resp: 1140
Ion Ratio Lower Upper
84 100
86 70.7 44.4 82.5
49 138.2 89.9 167.0



#17
Methyl tert-butyl Ether
Concen: 0.737 ug/L
RT: 3.38 min Scan# 635
Delta R.T. 0.00 min
Lab File: VU041413.D
Acq: 24 Nov 2020 12:57

Tgt Ion: 73 Resp: 7347
Ion Ratio Lower Upper
73 100
43 10.8 18.3 27.5#
57 20.3 17.7 26.5





#18

trans-1,2-Dichloroethene

Concen: 0.919 ug/L

RT: 3.37 min Scan# 631

Delta R.T. 0.00 min

Lab File: VU041413.D

Acq: 24 Nov 2020 12:57

Instrument :

MSVOA_U

ClientSampleId :

H4407DL

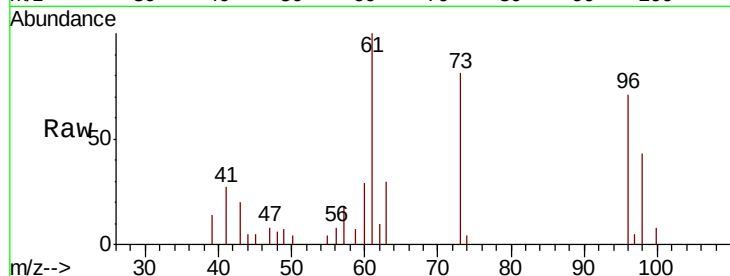
Tot Ion: 96 Resp: 3991

Ion Ratio Lower Upper

96 100

61 140.9 103.7 192.5

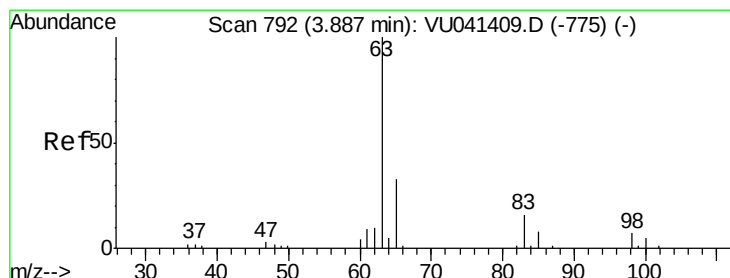
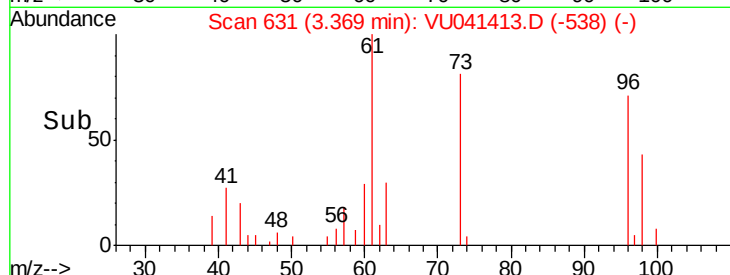
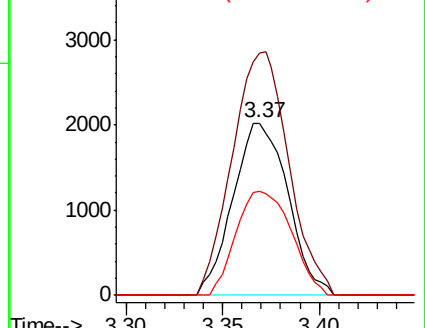
98 60.8 47.5 88.3



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: 0.080 ug/L

RT: 3.90 min Scan# 795

Delta R.T. 0.01 min

Lab File: VU041413.D

Acq: 24 Nov 2020 12:57

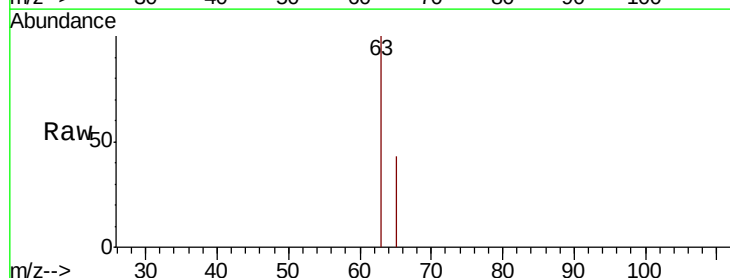
Tgt Ion: 63 Resp: 692

Ion Ratio Lower Upper

63 100

65 42.9 23.0 42.8#

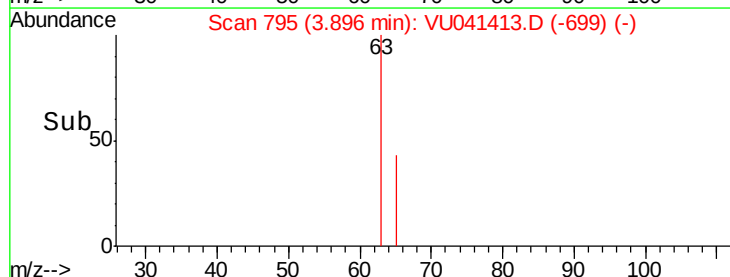
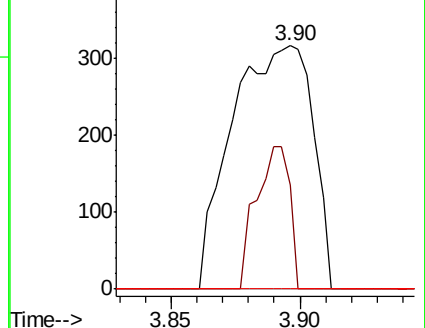
83 0.0 9.4 17.4#

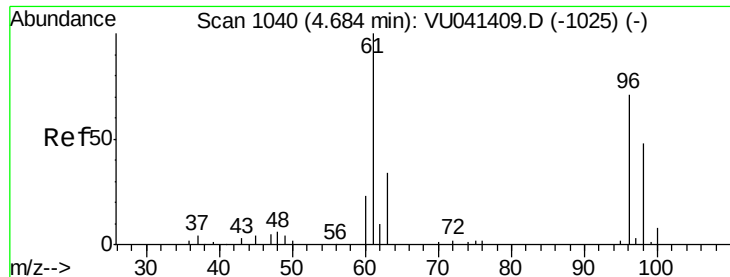


Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 65.10 (64.80 to 65.80): VU0

Ion 83.05 (82.75 to 83.75): VU0





#22

cis-1,2-Dichloroethene

Concen: 9.979 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. 0.00 min

Lab File: VU041413.D

Acq: 24 Nov 2020 12:57

Instrument :

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ClientSampleId :

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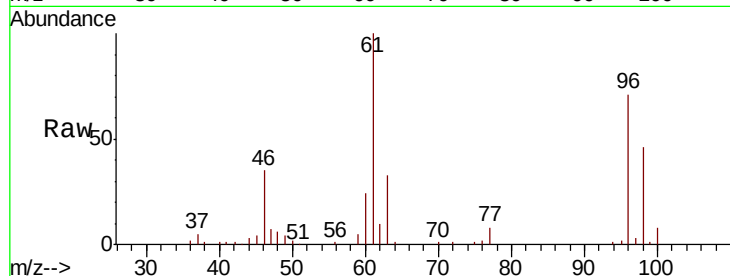
Tot Ion: 96 Resp: 46101

Ion Ratio Lower Upper

96 100

61 141.4 95.3 176.9

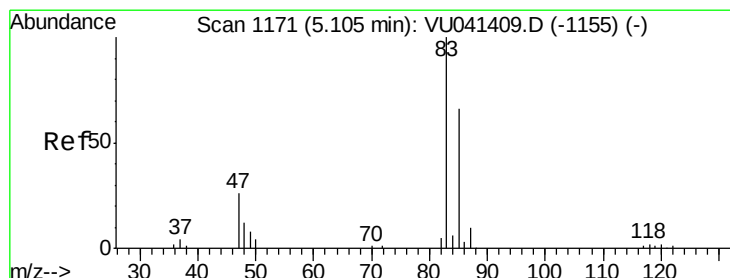
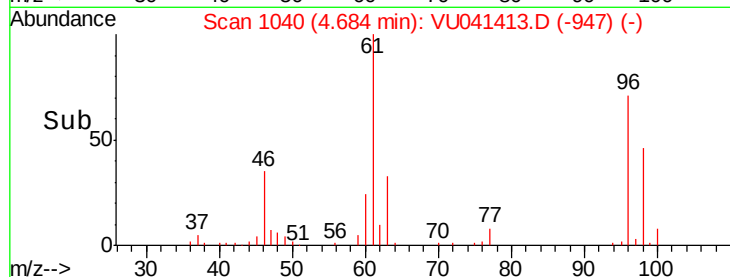
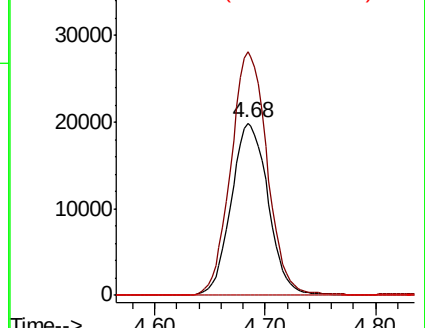
68 0.0 0.0 0.0



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: 0.232 ug/L

RT: 5.11 min Scan# 1173

Delta R.T. 0.01 min

Lab File: VU041413.D

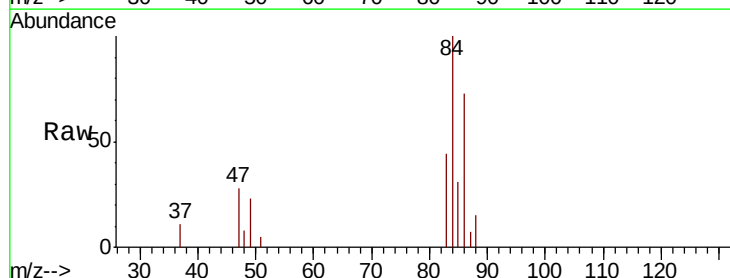
Acq: 24 Nov 2020 12:57

Tgt Ion: 83 Resp: 2205

Ion Ratio Lower Upper

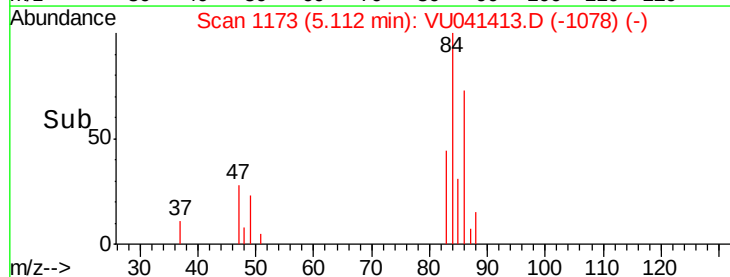
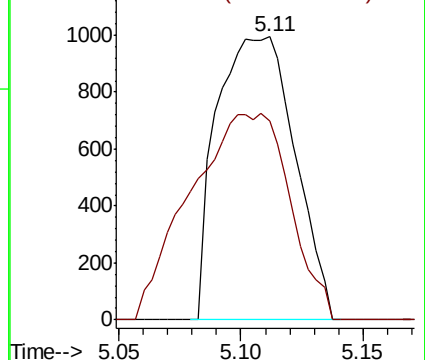
83 100

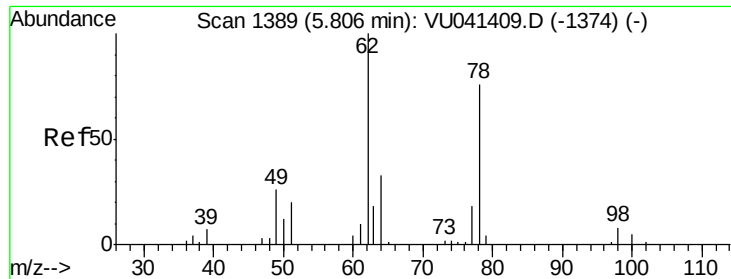
85 70.2 44.7 82.9



Abundance Ion 83.05 (82.75 to 83.75): VU0

Ion 85.00 (84.70 to 85.70): VU0





#27

1,2-Dichloroethane

Concen: 0.087 ug/L

RT: 5.74 min Scan# 1368

Delta R.T. -0.07 min

Lab File: VU041413.D

Acq: 24 Nov 2020 12:57

Instrument :

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ClientSampleId :

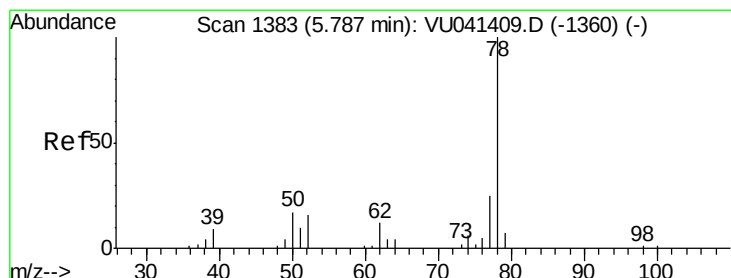
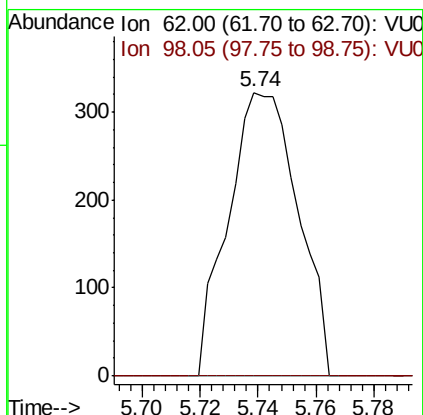
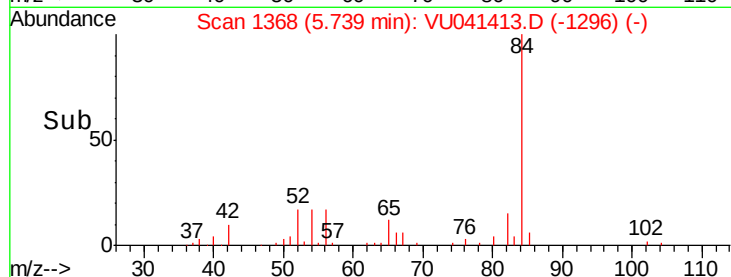
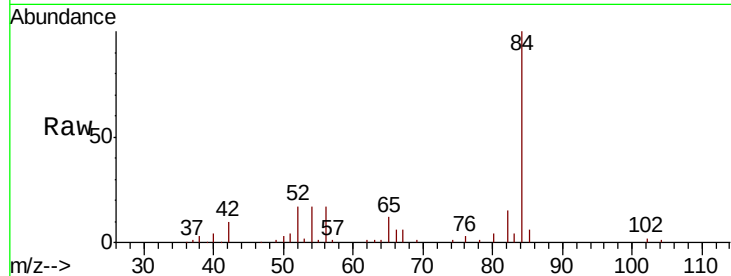
H4407DL

Tot Ion: 62 Resp: 539

Ion Ratio Lower Upper

62 100

98 0.0 6.0 9.0#



#33

Benzene

Concen: 0.030 ug/L

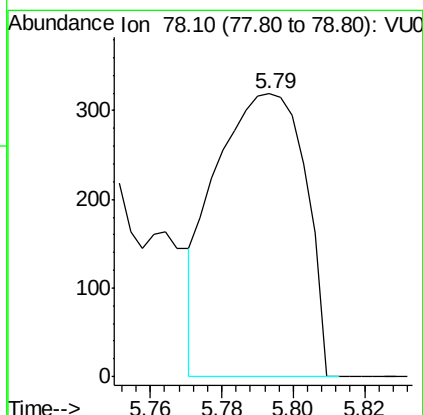
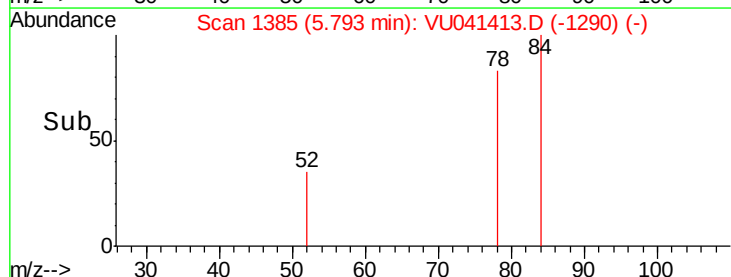
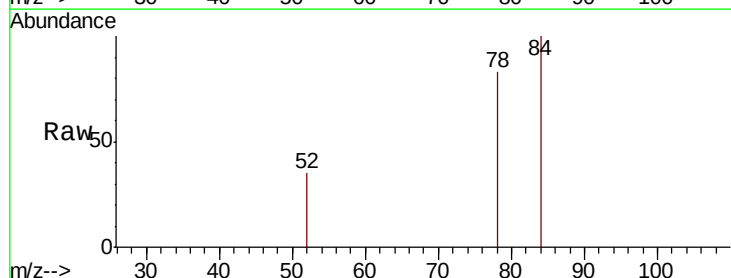
RT: 5.79 min Scan# 1385

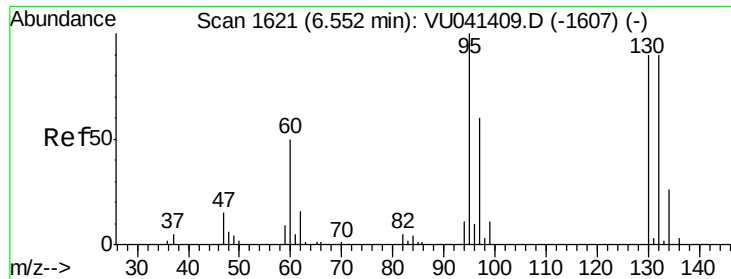
Delta R.T. 0.01 min

Lab File: VU041413.D

Acq: 24 Nov 2020 12:57

Tgt Ion: 78 Resp: 556

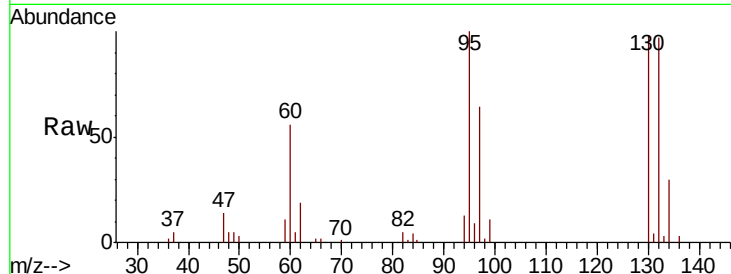




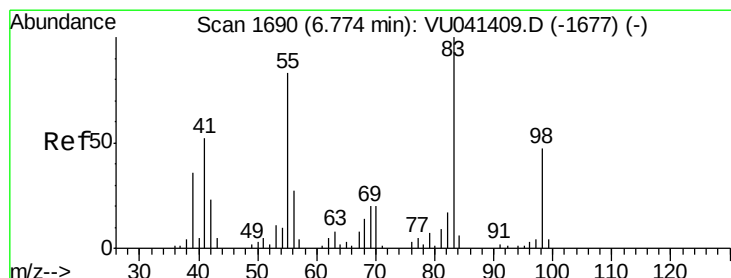
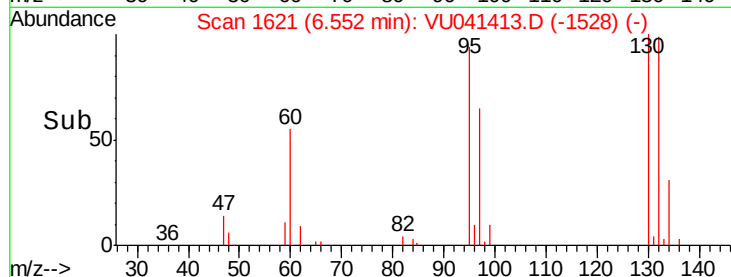
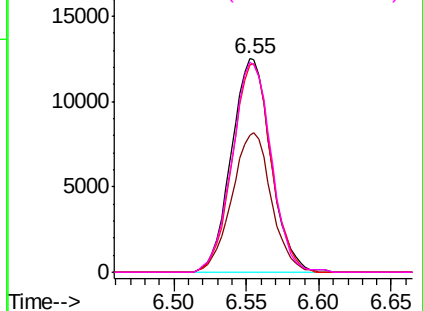
#34
 Trichloroethene
 Concen: 4.706 ug/L
 RT: 6.55 min Scan# 1621
 Delta R.T. 0.00 min
 Lab File: VU041413.D
 Acq: 24 Nov 2020 12:57

Instrument :
 MSVOA_U
 ClientSampleId :
 H4407DL

Tot Ion: 95 Resp: 23600
 Ion Ratio Lower Upper
 95 100
 97 64.0 46.5 86.5
 132 97.0 60.8 113.0
 130 98.2 63.3 117.7

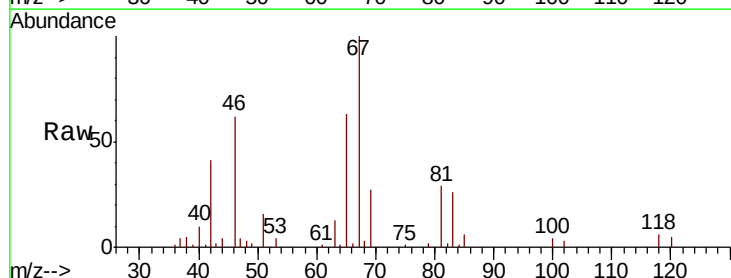


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

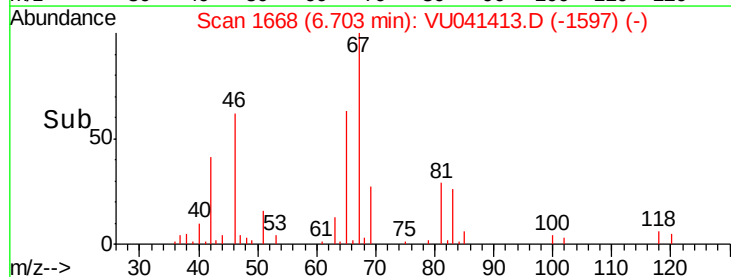
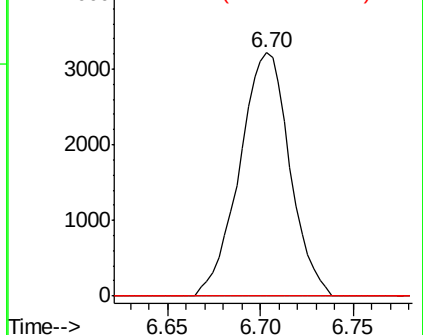


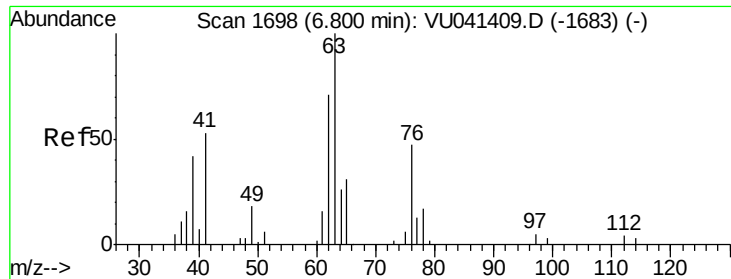
#35
 Methylcyclohexane
 Concen: 0.829 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.07 min
 Lab File: VU041413.D
 Acq: 24 Nov 2020 12:57

Tgt Ion: 83 Resp: 6063
 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: 0.635 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.10 min

Lab File: VU041413.D

Acq: 24 Nov 2020 12:57

Instrument :

MSVOA_U

ClientSampleId :

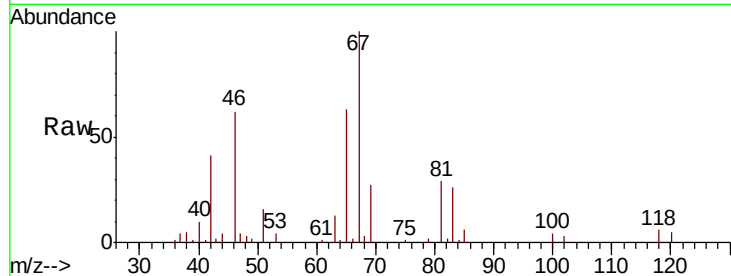
H4407DL

Tot Ion: 63 Resp: 3207

Ion Ratio Lower Upper

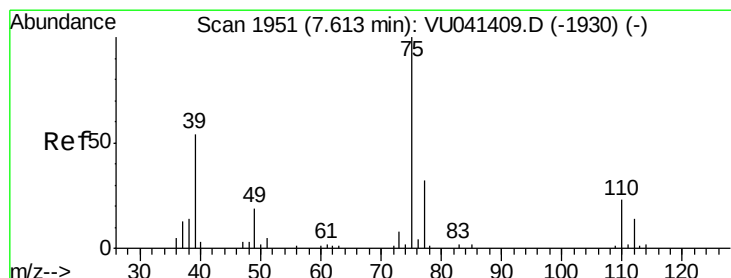
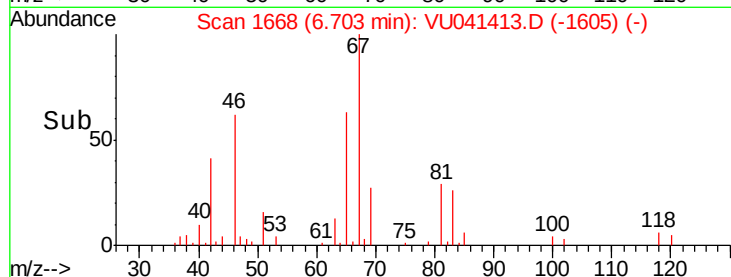
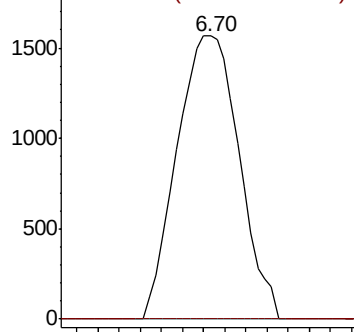
63 100

112 0.0 2.6 4.0#



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: 0.108 ug/L

RT: 7.57 min Scan# 1939

Delta R.T. -0.04 min

Lab File: VU041413.D

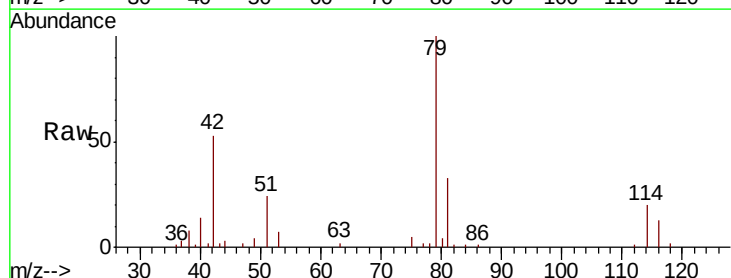
Acq: 24 Nov 2020 12:57

Tgt Ion: 75 Resp: 753

Ion Ratio Lower Upper

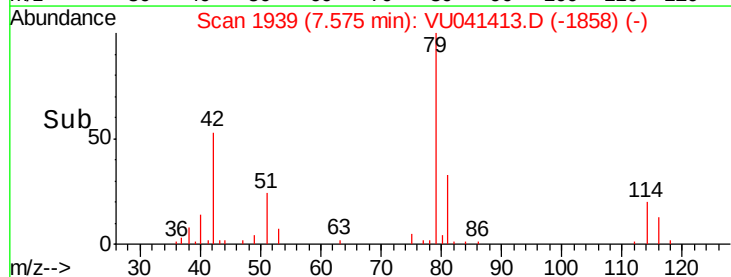
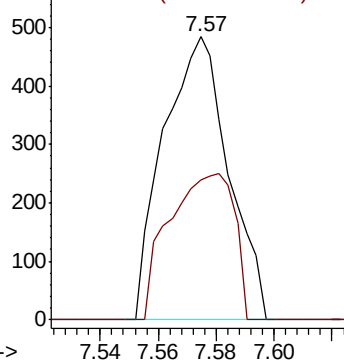
75 100

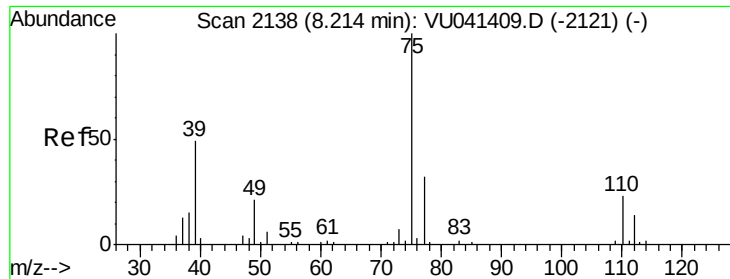
77 49.4 22.1 41.1#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0





#44

trans-1,3-Dichloropropene

Concen: 0.091 ug/L

RT: 8.19 min Scan# 2130

Delta R.T. -0.03 min

Lab File: VU041413.D

Acq: 24 Nov 2020 12:57

Instrument :

MSVOA_U

ClientSampleId :

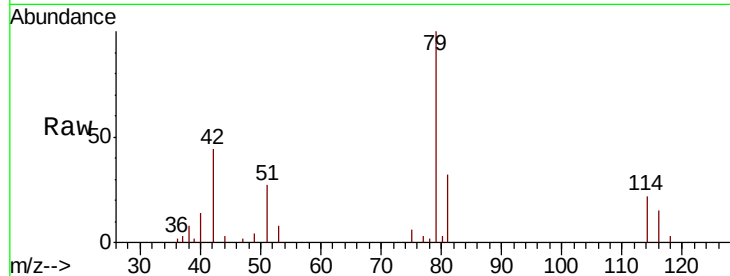
H4407DL

Tot Ion: 75 Resp: 580

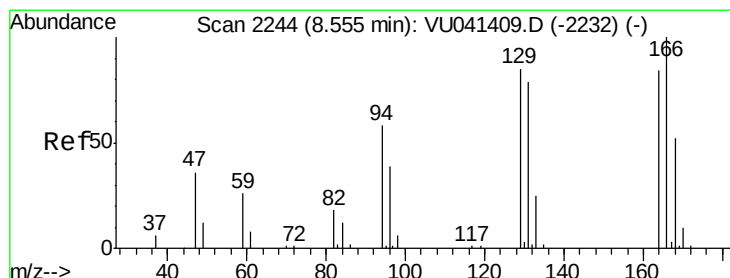
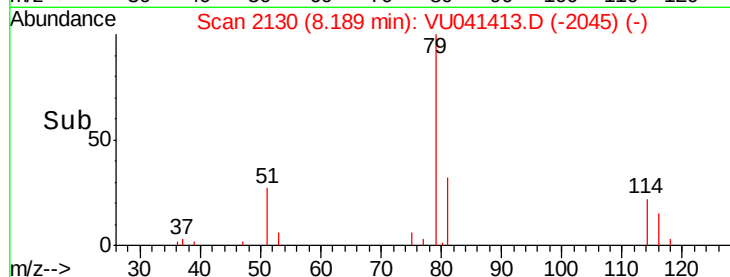
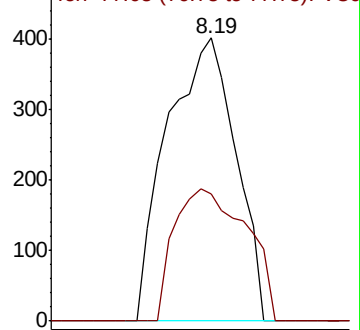
Ion Ratio Lower Upper

75 100

77 45.0 21.7 40.3#



Abundance Ion 75.05 (74.75 to 75.75): VU041413.D (-2045) (-)



#47

Tetrachloroethene

Concen: 0.110 ug/L

RT: 8.55 min Scan# 2243

Delta R.T. -0.00 min

Lab File: VU041413.D

Acq: 24 Nov 2020 12:57

Tgt Ion:164 Resp: 413

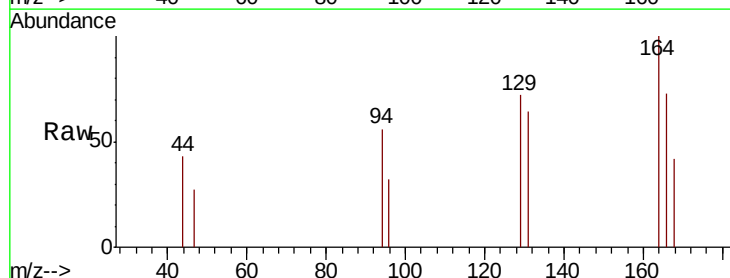
Ion Ratio Lower Upper

164 100

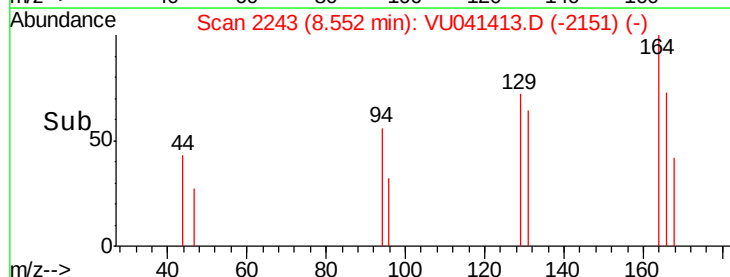
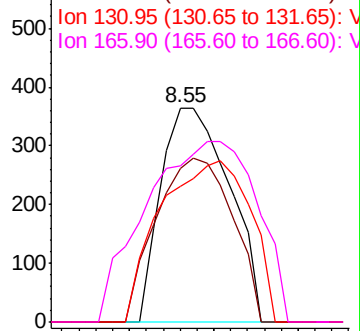
129 72.0 71.0 131.9

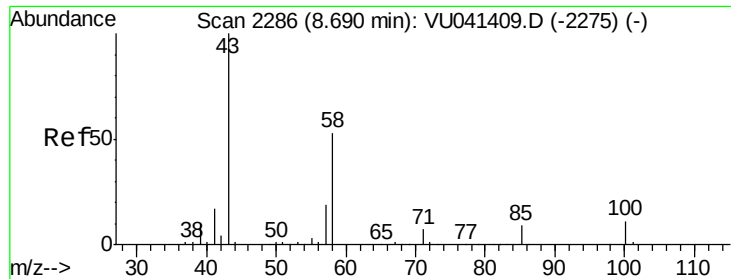
131 63.7 69.0 128.1#

166 72.8 92.4 171.6#



Abundance Ion 163.90 (163.60 to 164.60): VU041413.D (-2151) (-)

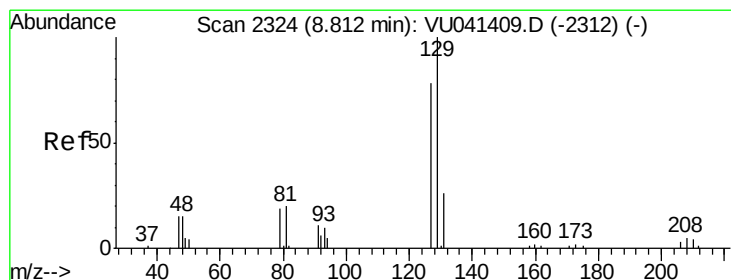
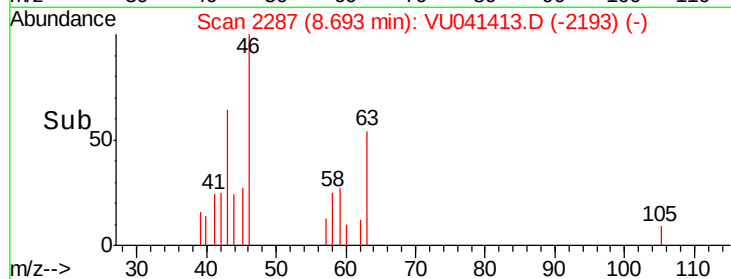
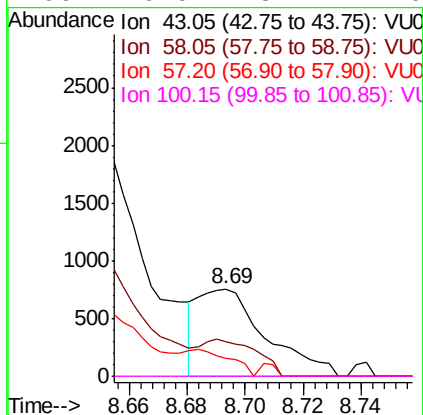
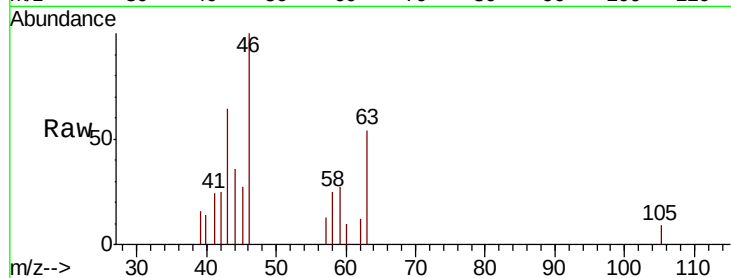




#48
2-Hexanone
Concen: 0.534 ug/L
RT: 8.69 min Scan# 2287
Delta R.T. 0.00 min
Lab File: VU041413.D
Acq: 24 Nov 2020 12:57

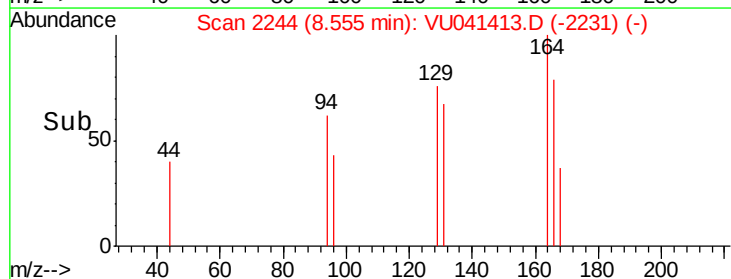
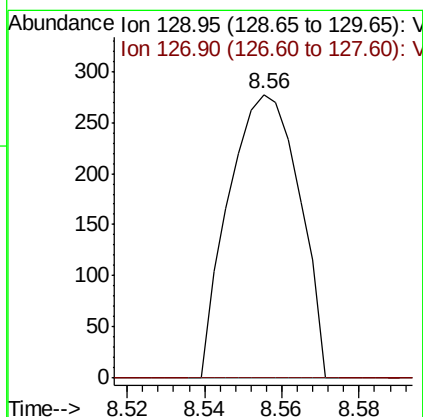
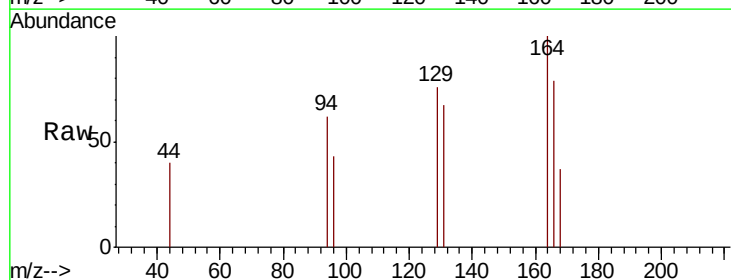
Instrument :
MSVOA_U
ClientSampleId :
H4407DL

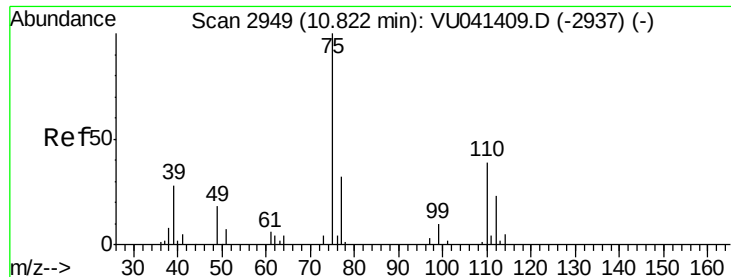
Tot Ion:	43	Resp:	1215
Ion	Ratio	Lower	Upper
43	100		
58	36.0	42.0	63.0#
57	0.0	15.0	22.4#
100	0.0	8.4	12.6#



#49
Dibromochloromethane
Concen: 0.080 ug/L
RT: 8.56 min Scan# 2244
Delta R.T. -0.26 min
Lab File: VU041413.D
Acq: 24 Nov 2020 12:57

Tgt Ion:	129	Resp:	351
Ion	Ratio	Lower	Upper
129	100		
127	0.0	55.6	103.4#





#59

1,2,3-Trichloropropane

Concen: 1.039 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU041413.D

Acq: 24 Nov 2020 12:57

Instrument :

MSVOA_U

ClientSampleId :

H4407DL

Tot Ion: 75 Resp: 3428

Ion Ratio Lower Upper

75 100

77 43.7 25.1 37.7#

