

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111720\
 Data File : VU041297.D
 Acq On : 17 Nov 2020 23:50
 Operator : SY/MD
 Sample : L4759-02DL 5X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 H4413DL

Quant Time: Nov 18 00:09:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR111620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Nov 18 00:06:52 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	62813	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	66638	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	27966	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	23826	5.16	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	103.20%
7) Chloroethane-d5	1.92	69	20664	5.23	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	104.60%
11) 1,1-Dichloroethene-d2	2.58	63	36445	3.82	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	76.40%
20) 2-Butanone-d5	4.66	46	96888	50.86	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	101.72%
24) Chloroform-d	5.08	84	52068	5.21	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.20%
26) 1,2-Dichloroethane-d4	5.72	65	32027	4.91	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.20%
32) Benzene-d6	5.74	84	87293	4.86	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.20%
36) 1,2-Dichloropropane-d6	6.70	67	30745	4.97	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.40%
41) Toluene-d8	7.91	98	70393	4.16	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	83.20%
43) trans-1,3-Dichloropropene-	8.19	79	11623	4.36	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	87.20%
46) 2-Hexanone-d5	8.64	63	68532	48.15	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	96.30%
57) 1,1,2,2-Tetrachloroethane-	10.76	84	29336	4.88	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.60%
64) 1,2-Dichlorobenzene-d4	12.19	152	28340	5.19	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	103.80%

Target Compounds

				Ovalue
3) Chloromethane	1.53	50	645	0.116 ug/L # 43
5) Vinyl chloride	1.61	62	6634	1.217 ug/L # 1
8) Chloroethane	2.01	64	3471	0.959 ug/L # 52
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	266	0.057 ug/L # 22
14) Carbon disulfide	2.81	76	1414	0.118 ug/L # 74
16) Methylene chloride	3.06	84	2114	0.412 ug/L 85
17) Methyl tert-butyl Ether	3.38	73	99340	8.874 ug/L 99
18) trans-1,2-Dichloroethene	3.37	96	992	0.249 ug/L 92
19) 1,1-Dichloroethane	3.88	63	2620	0.294 ug/L 96
22) cis-1,2-Dichloroethene	4.69	96	8439	1.876 ug/L 93
27) 1,2-Dichloroethane	5.74	62	571	0.082 ug/L # 74
33) Benzene	5.79	78	1409	0.078 ug/L 100
34) Trichloroethene	6.56	95	1500	0.307 ug/L 90
35) Methylcyclohexane	6.70	83	7224	1.114 ug/L # 14
37) 1,2-Dichloropropane	6.70	63	3582	0.679 ug/L # 86
39) cis-1,3-Dichloropropene	7.57	75	892	0.121 ug/L # 80
44) trans-1,3-Dichloropropene	8.19	75	426	0.061 ug/L # 45

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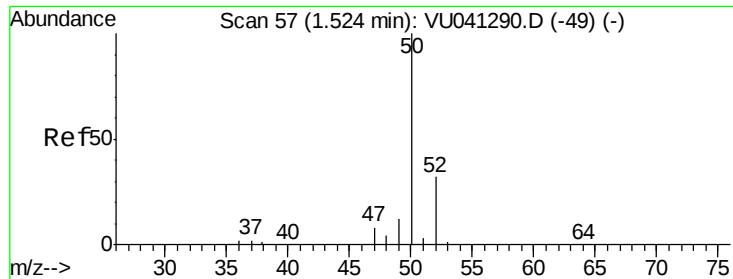
Instrument :
MSVOA_U
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Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Nov 18 00:06:52 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) 1,2,3-Trichloropropane	11.81	75	3635	0.873	ug/L	96

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

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#3

Chloromethane

Concen: 0.116 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU041297.D

Acq: 17 Nov 2020 23:50

Instrument :

MSVOA_U

ClientSampleID :

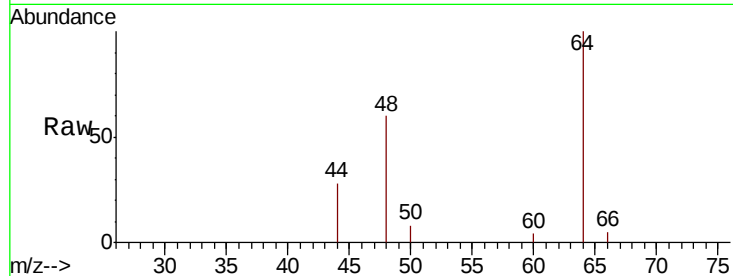
H4413DL

Tot Ion: 50 Resp: 645

Ion Ratio Lower Upper

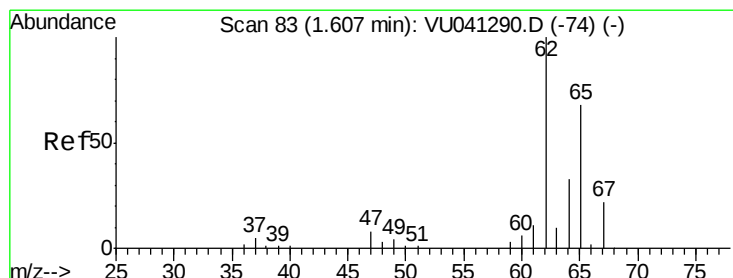
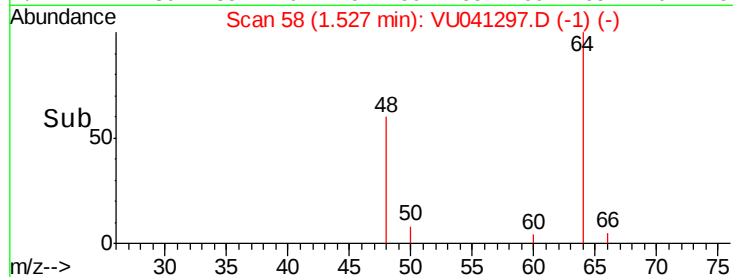
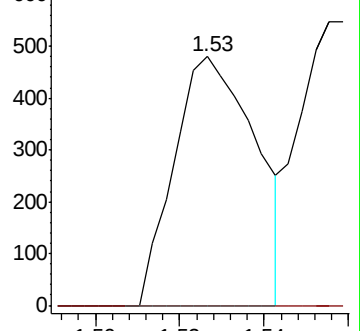
50 100

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: 1.217 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU041297.D

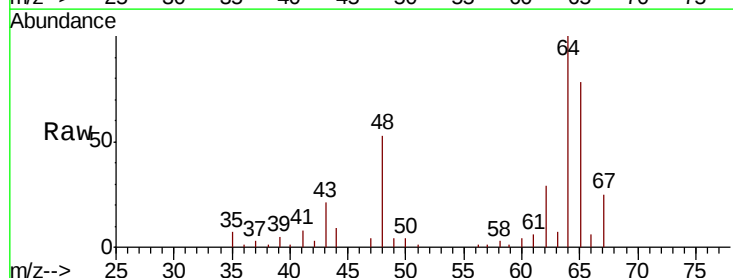
Acq: 17 Nov 2020 23:50

Tgt Ion: 62 Resp: 6634

Ion Ratio Lower Upper

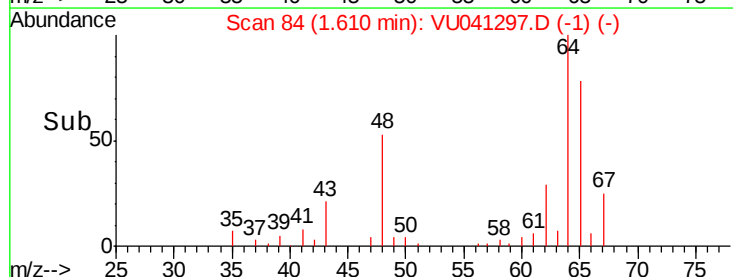
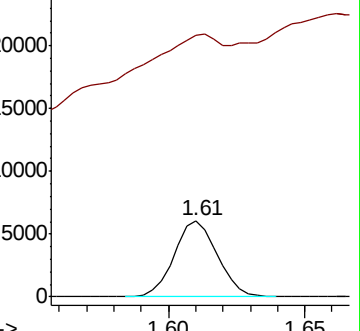
62 100

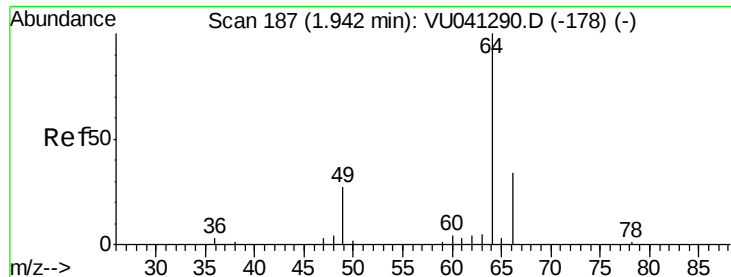
64 342.2 22.7 42.3#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0





#8

Chloroethane

Concen: 0.959 ug/L

RT: 2.01 min Scan# 209

Delta R.T. 0.07 min

Lab File: VU041297.D

Acq: 17 Nov 2020 23:50

Instrument :

MSVOA_U

ClientSampleId :

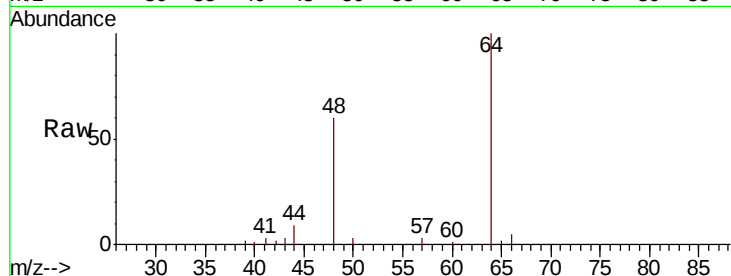
H4413DL

Tot Ion: 64 Resp: 3471

Ion Ratio Lower Upper

64 100

66 5.3 22.3 41.5#

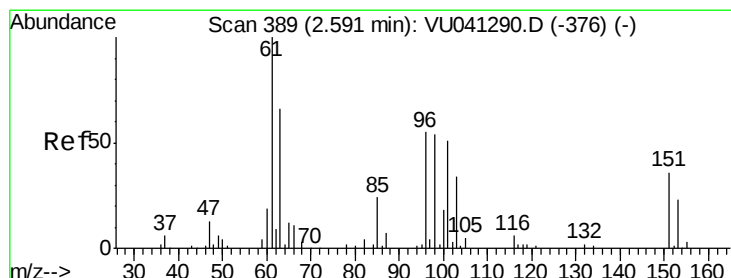
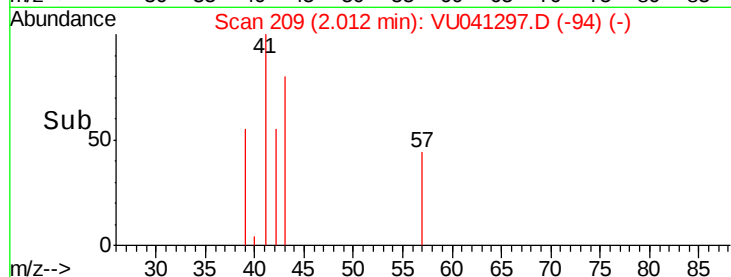


Abundance Ion 64.10 (63.80 to 64.80): VU041297.D (-178) (-)

Ion 66.05 (65.75 to 66.75): VU041297.D (-178) (-)

2.01

Time-->



#10

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

Concen: 0.057 ug/L

RT: 2.58 min Scan# 385

Delta R.T. -0.01 min

Lab File: VU041297.D

Acq: 17 Nov 2020 23:50

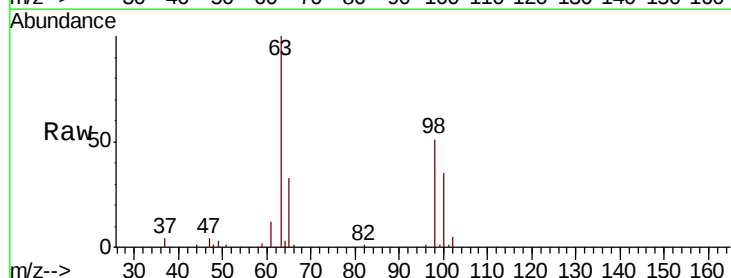
Tgt Ion:101 Resp: 266

Ion Ratio Lower Upper

101 100

85 0.0 35.0 52.4#

151 0.0 55.3 82.9#



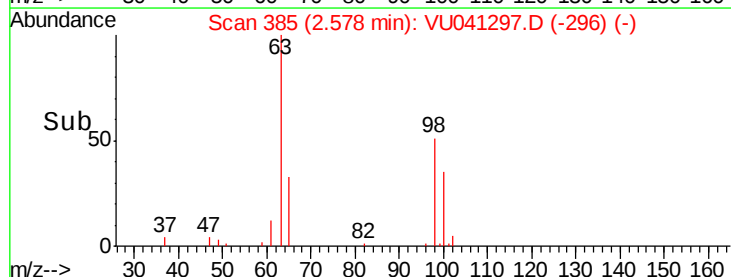
Abundance Ion 101.00 (100.70 to 101.70): VU041297.D (-376) (-)

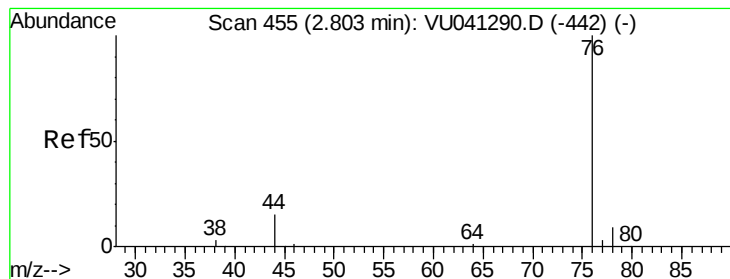
Ion 85.00 (84.70 to 85.70): VU041297.D (-376) (-)

Ion 151.00 (150.70 to 151.70): VU041297.D (-376) (-)

2.58

Time-->





#14

Carbon disulfide

Concen: 0.118 ug/L

RT: 2.81 min Scan# 457

Delta R.T. 0.01 min

Lab File: VU041297.D

Acq: 17 Nov 2020 23:50

Instrument :

MSVOA_U

ClientSampleId :

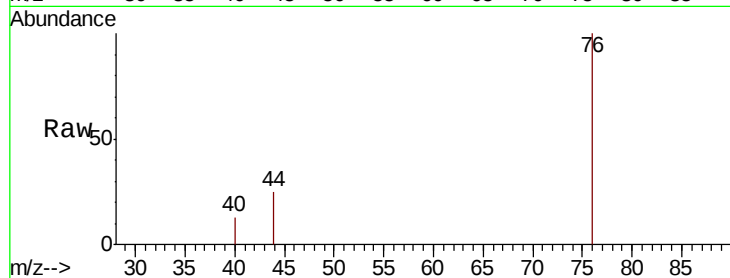
H4413DL

Tot Ion: 76 Resp: 1414

Ion Ratio Lower Upper

76 100

78 0.0 7.5 11.3#



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0

2.81

800

600

400

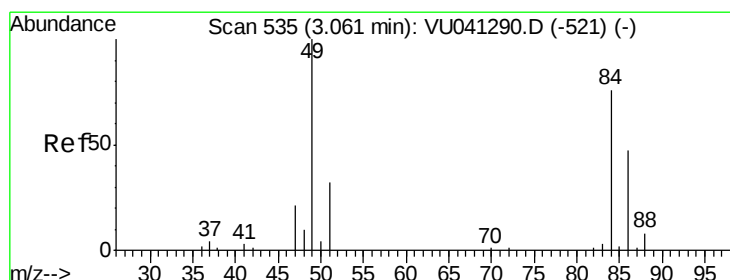
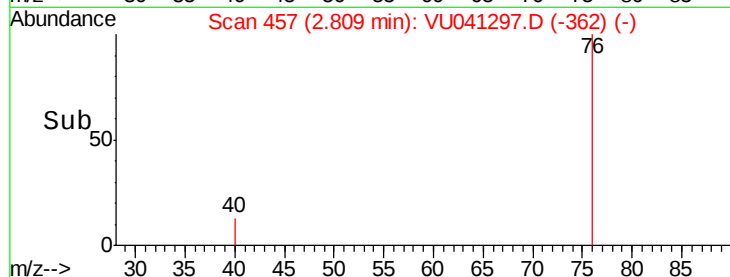
200

0

2.80

2.85

Time-->



#16

Methylene chloride

Concen: 0.412 ug/L

RT: 3.06 min Scan# 536

Delta R.T. 0.00 min

Lab File: VU041297.D

Acq: 17 Nov 2020 23:50

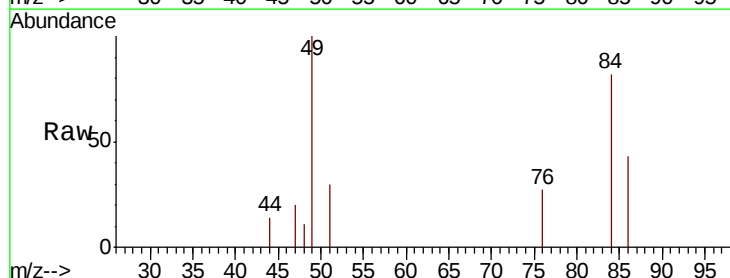
Tgt Ion: 84 Resp: 2114

Ion Ratio Lower Upper

84 100

86 52.4 42.8 79.6

49 122.5 99.5 184.7



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

2000

1500

1000

500

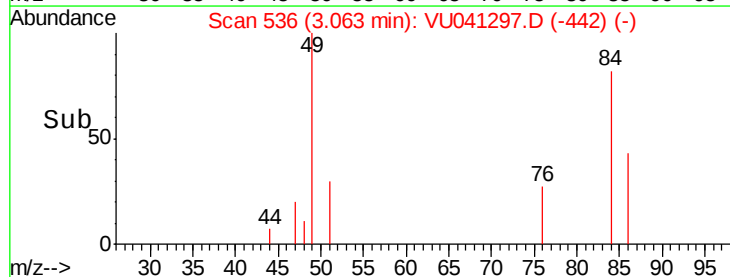
0

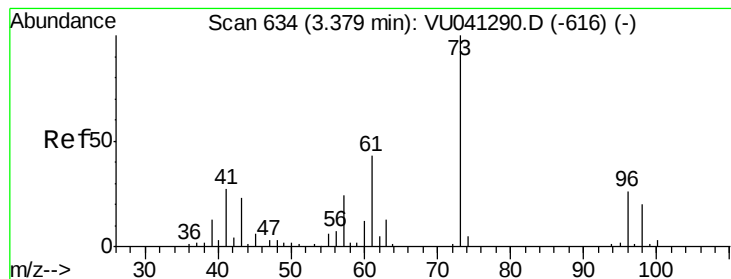
3.00

3.05

3.10

Time-->



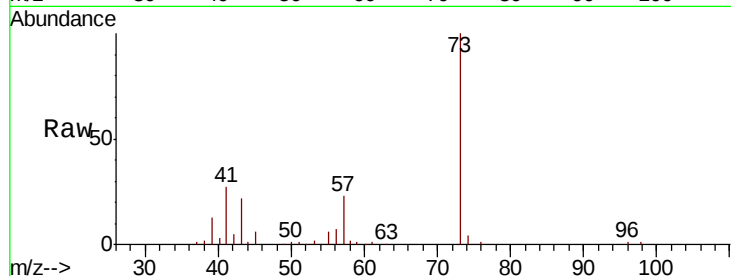


#17

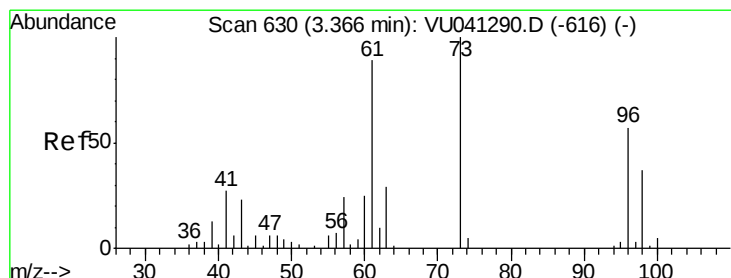
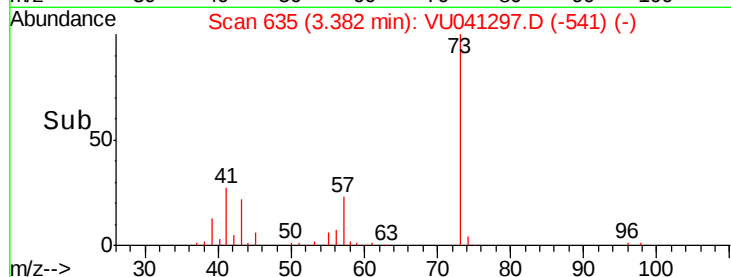
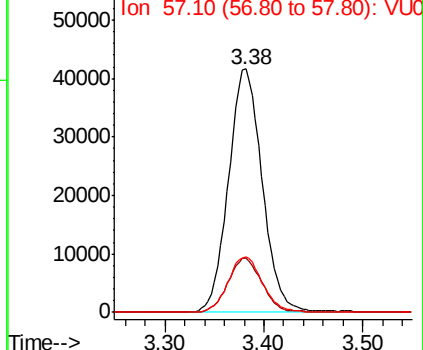
Methvl tert-butvl Ether
 Concen: 8.874 ug/L
 RT: 3.38 min Scan# 635
 Delta R.T. 0.00 min
 Lab File: VU041297.D
 Acq: 17 Nov 2020 23:50

Instrument :
 MSVOA_U
 ClientSampled :
 H4413DL

Tot Ion: 73 Resp: 99340
 Ion Ratio Lower Upper
 73 100
 43 22.4 18.5 27.7
 57 23.2 18.4 27.6



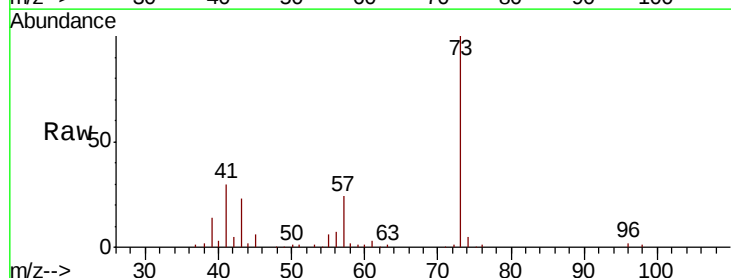
Abundance Ion 73.10 (72.80 to 73.80): VU0
 Ion 43.05 (42.75 to 43.75): VU0
 Ion 57.10 (56.80 to 57.80): VU0



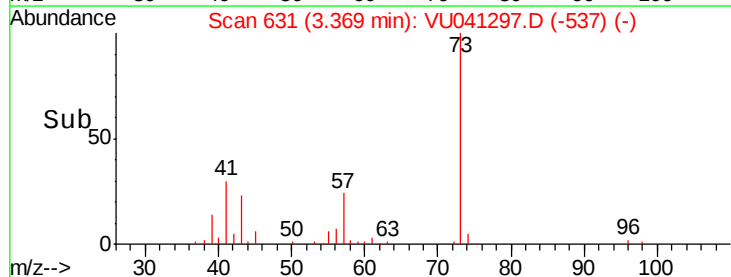
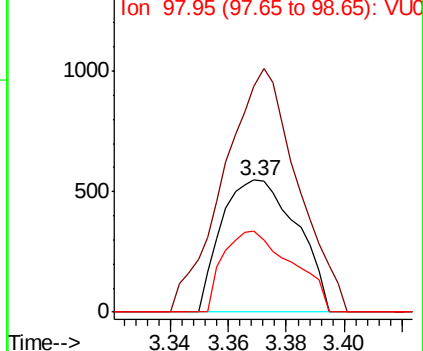
#18

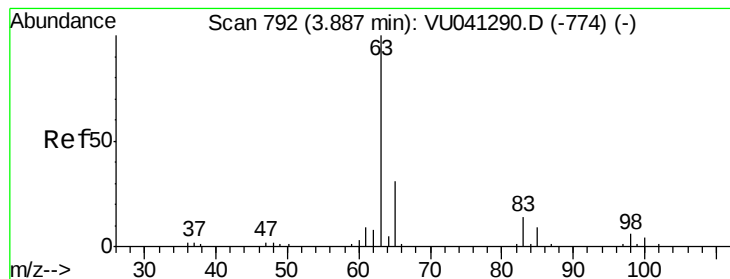
trans-1,2-Dichloroethene
 Concen: 0.249 ug/L
 RT: 3.37 min Scan# 631
 Delta R.T. 0.00 min
 Lab File: VU041297.D
 Acq: 17 Nov 2020 23:50

Tgt Ion: 96 Resp: 992
 Ion Ratio Lower Upper
 96 100
 61 171.1 110.9 205.9
 98 61.2 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





#19

1,1-Dichloroethane

Concen: 0.294 ug/L

RT: 3.88 min Scan# 791

Delta R.T. -0.00 min

Lab File: VU041297.D

Acq: 17 Nov 2020 23:50

Instrument :

MSVOA_U

ClientSampleID :

H4413DL

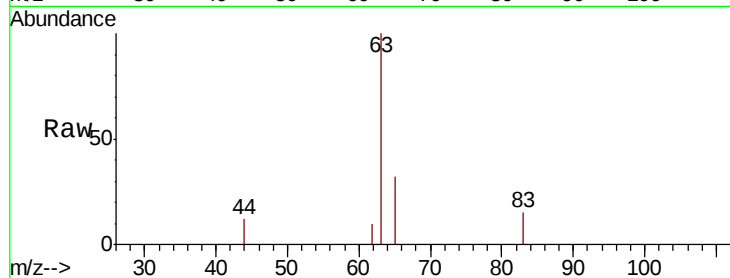
Tot Ion: 63 Resp: 2620

Ion Ratio Lower Upper

63 100

65 31.7 21.3 39.6

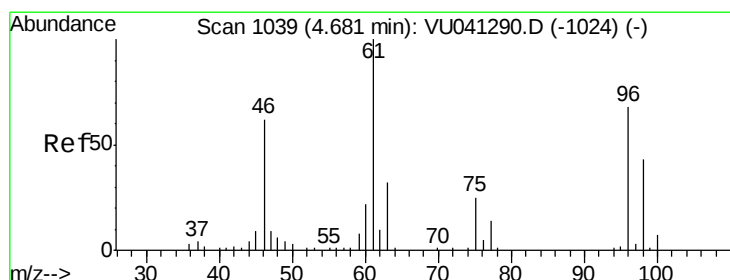
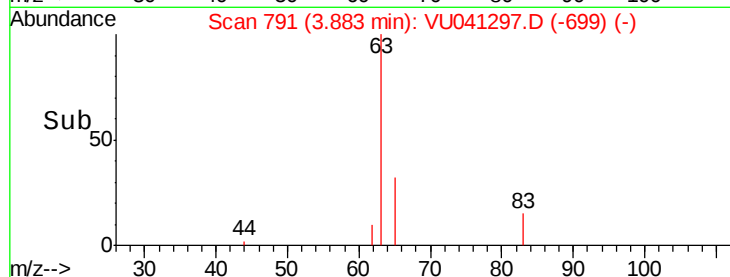
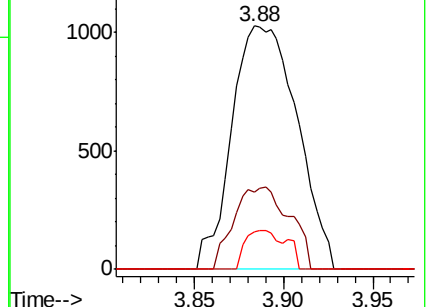
83 15.5 8.8 16.3



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: 1.876 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.01 min

Lab File: VU041297.D

Acq: 17 Nov 2020 23:50

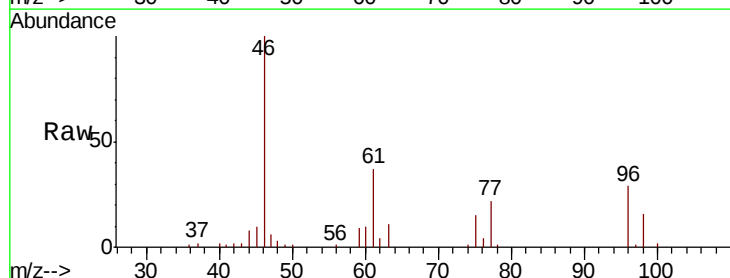
Tgt Ion: 96 Resp: 8439

Ion Ratio Lower Upper

96 100

61 130.7 97.2 180.4

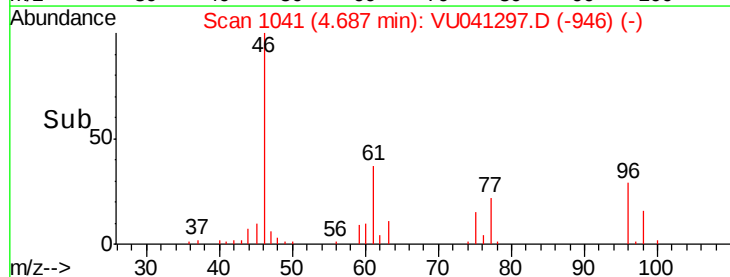
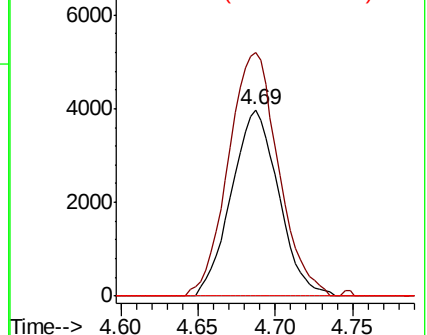
68 0.0 0.0 0.0

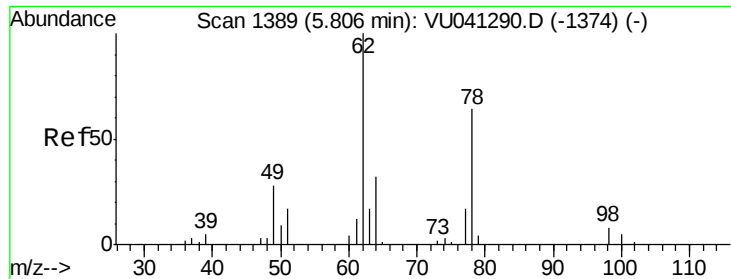


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 68.15 (67.85 to 68.85): VU0

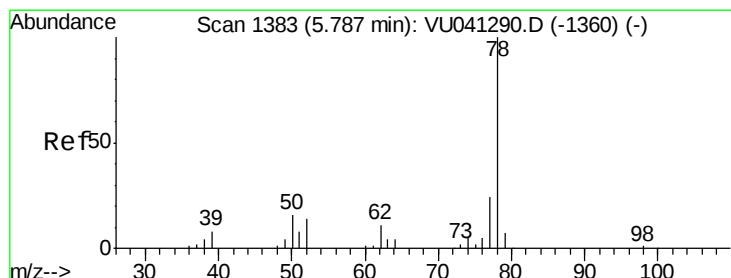
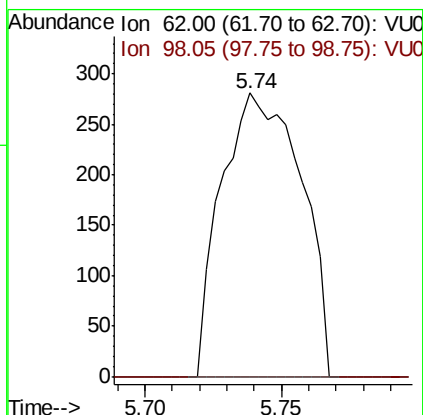
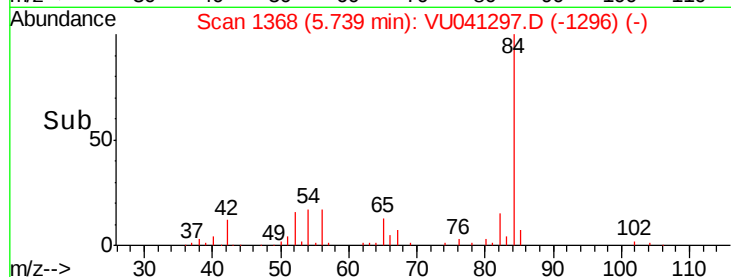
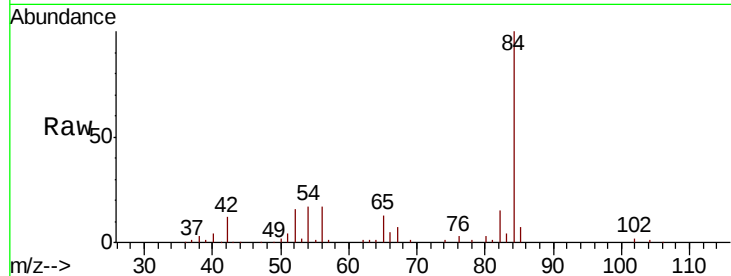




#27
 1,2-Dichloroethane
 Concen: 0.082 ug/L
 RT: 5.74 min Scan# 1368
 Delta R.T. -0.07 min
 Lab File: VU041297.D
 Acq: 17 Nov 2020 23:50

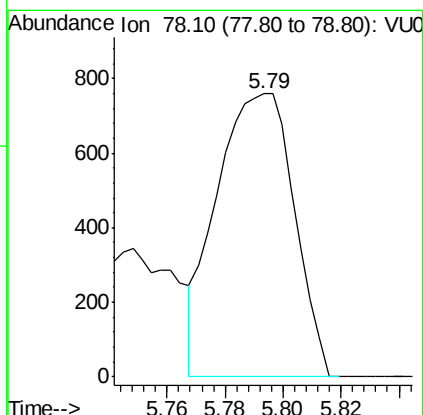
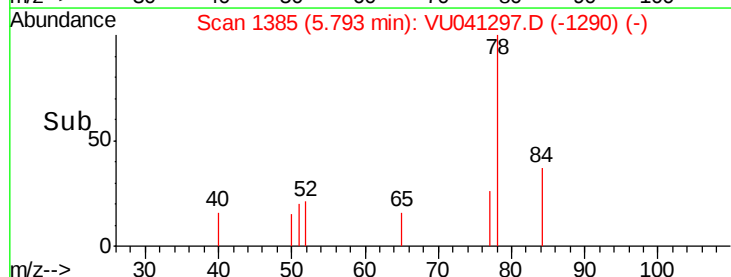
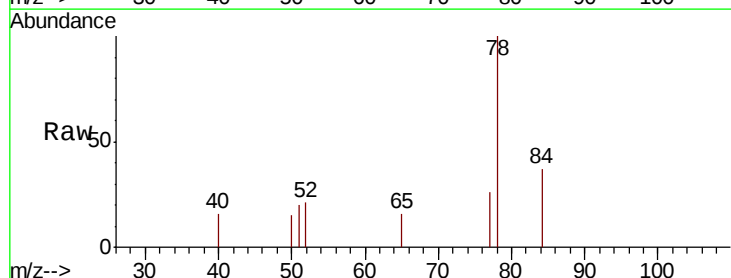
Instrument :
 MSVOA_U
 ClientSampleId :
 H4413DL

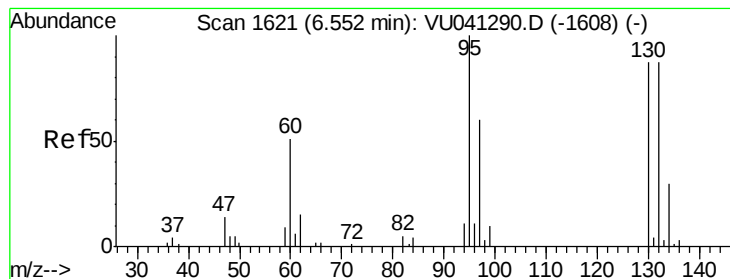
Tot Ion: 62 Resp: 571
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.6 11.4#



#33
 Benzene
 Concen: 0.078 ug/L
 RT: 5.79 min Scan# 1385
 Delta R.T. 0.01 min
 Lab File: VU041297.D
 Acq: 17 Nov 2020 23:50

Tgt Ion: 78 Resp: 1409





#34

Trichloroethene

Concen: 0.307 ug/L

RT: 6.56 min Scan# 1622

Delta R.T. 0.00 min

Lab File: VU041297.D

Acq: 17 Nov 2020 23:50

Instrument :

MSVOA_U

ClientSampleId :

H4413DL

Tot Ion: 95 Resp: 1500

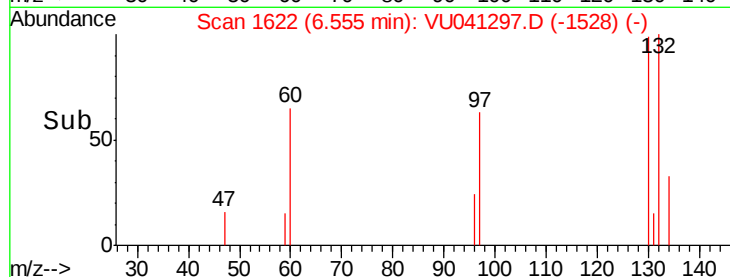
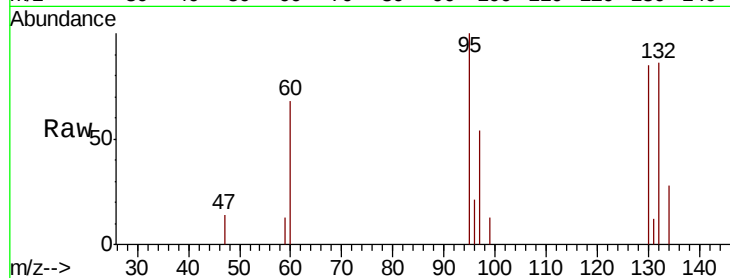
Ion Ratio Lower Upper

95 100

97 53.6 45.6 84.6

132 85.6 64.8 120.4

130 84.7 64.8 120.4

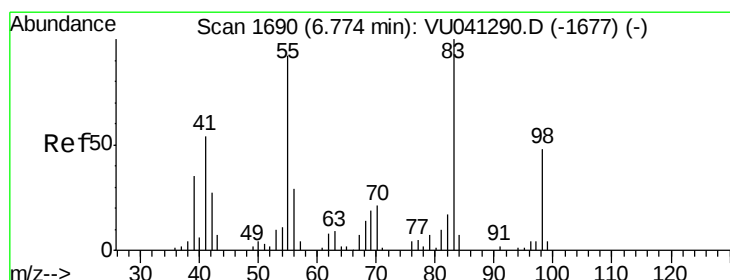
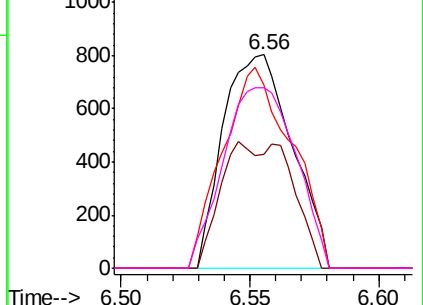


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 1.114 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.07 min

Lab File: VU041297.D

Acq: 17 Nov 2020 23:50

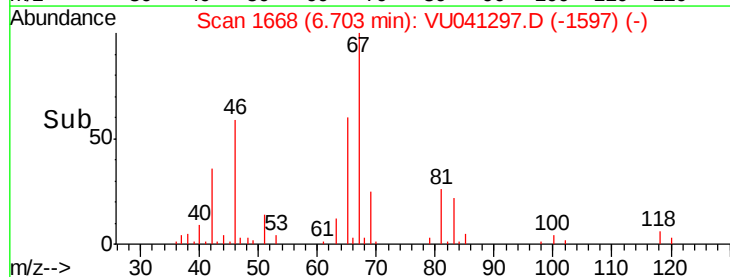
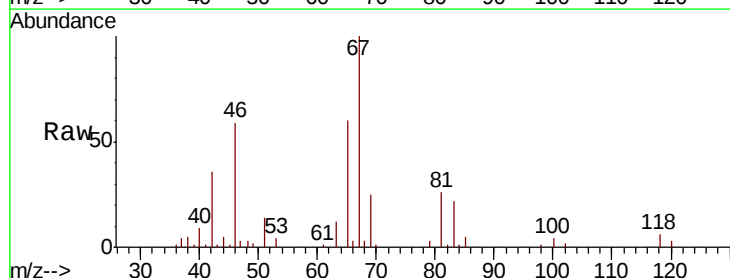
Tgt Ion: 83 Resp: 7224

Ion Ratio Lower Upper

83 100

55 0.0 72.0 108.0#

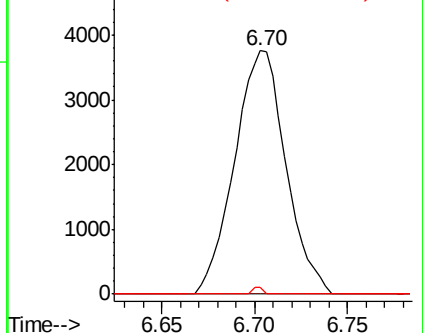
98 0.6 36.6 55.0#

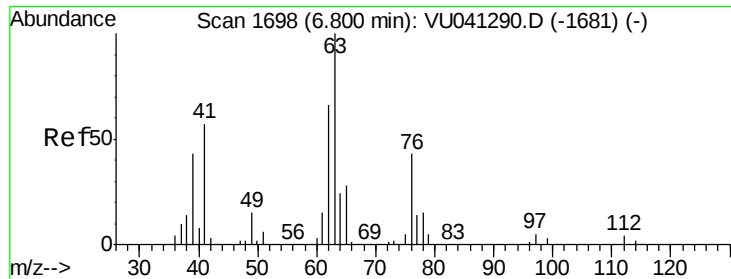


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

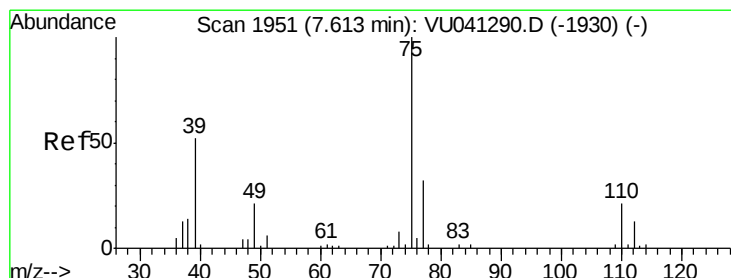
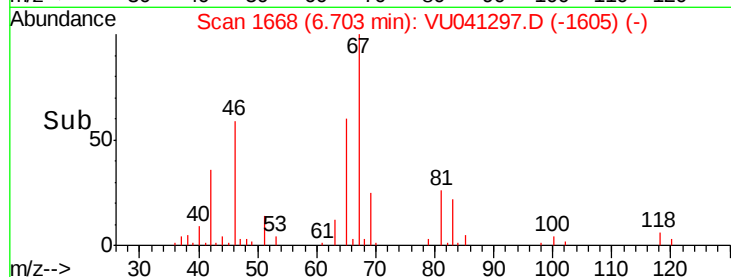
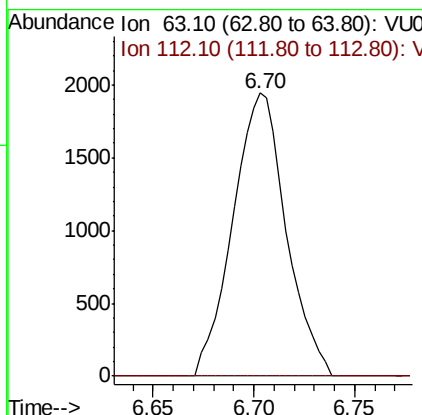
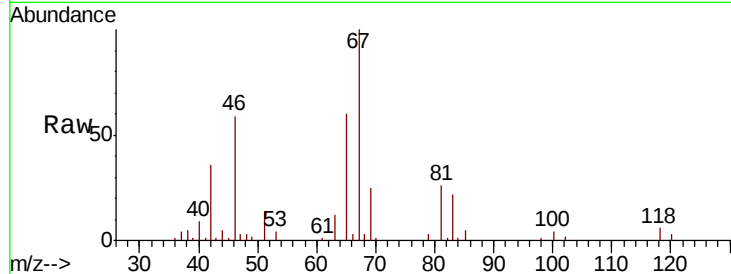




#37
 1,2-Dichloropropane
 Concen: 0.679 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.10 min
 Lab File: VU041297.D
 Acq: 17 Nov 2020 23:50

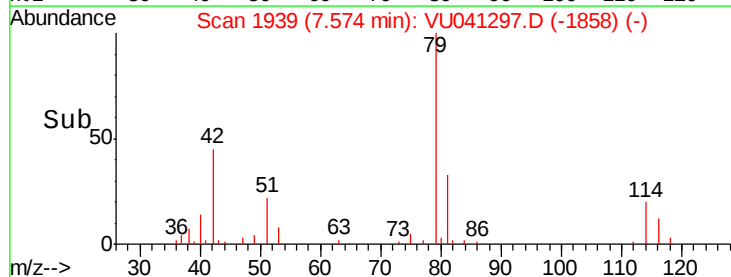
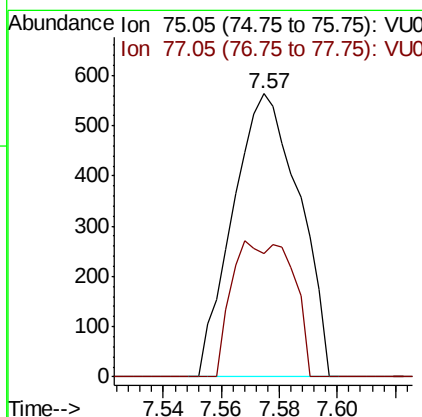
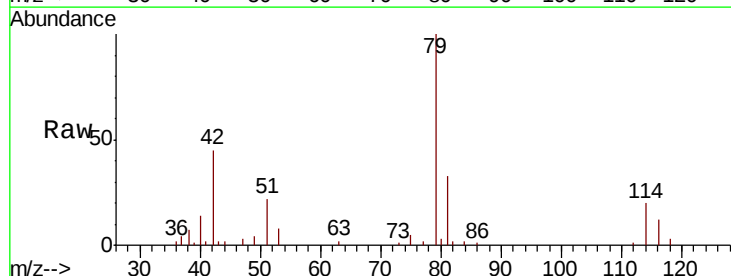
Instrument :
 MSVOA_U
 ClientSampleId :
 H4413DL

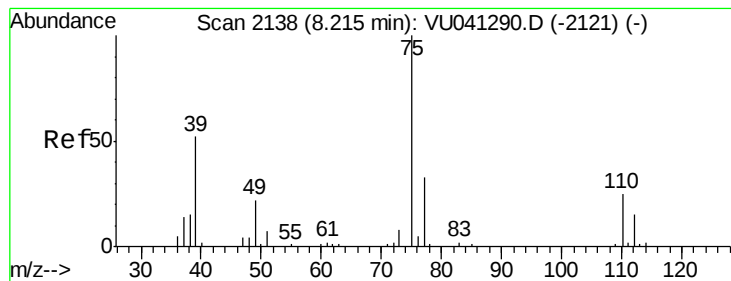
Tot Ion: 63 Resp: 3582
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.6 5.4#



#39
 cis-1,3-Dichloropropene
 Concen: 0.121 ug/L
 RT: 7.57 min Scan# 1939
 Delta R.T. -0.04 min
 Lab File: VU041297.D
 Acq: 17 Nov 2020 23:50

Tgt Ion: 75 Resp: 892
 Ion Ratio Lower Upper
 75 100
 77 43.5 22.7 42.3#





#44

trans-1,3-Dichloropropene

Concen: 0.061 ug/L

RT: 8.19 min Scan# 2129

Delta R.T. -0.03 min

Lab File: VU041297.D

Acq: 17 Nov 2020 23:50

Instrument :

MSVOA_U

ClientSampleId :

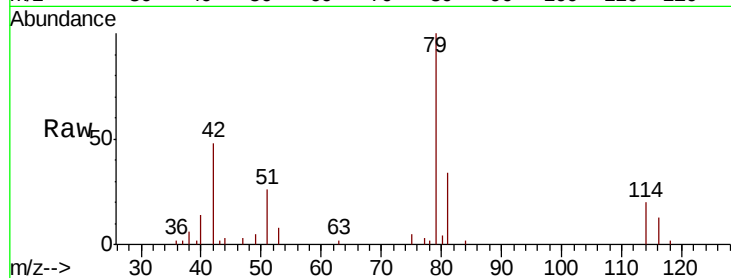
H4413DL

Tot Ion: 75 Resp: 426

Ion Ratio Lower Upper

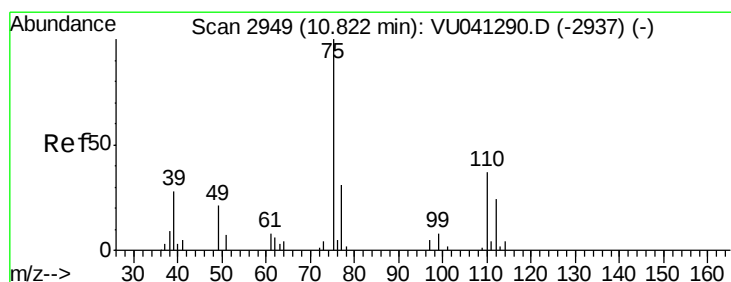
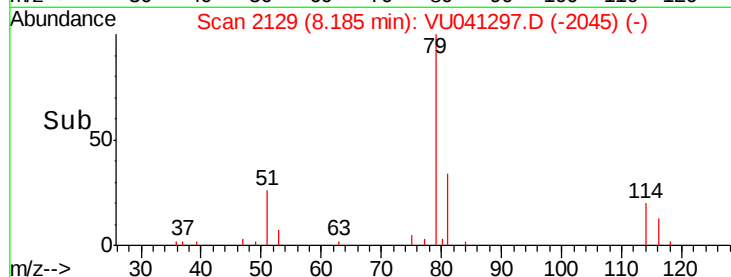
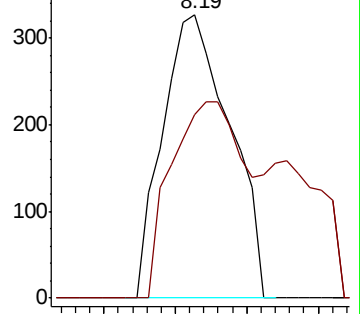
75 100

77 64.5 23.3 43.3#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0



#59

1,2,3-Trichloropropane

Concen: 0.873 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU041297.D

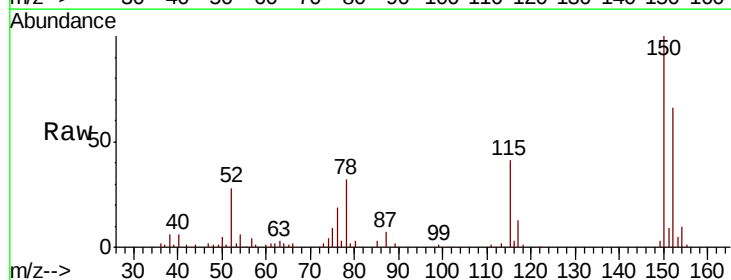
Acq: 17 Nov 2020 23:50

Tgt Ion: 75 Resp: 3635

Ion Ratio Lower Upper

75 100

77 34.6 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

