

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041620\
 Data File : VU037748.D
 Acq On : 16 Apr 2020 12:32
 Operator : JC/MD
 Sample : L2296-04
 Misc : 25mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Apr 17 01:34:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR041420WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Apr 17 01:29:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	265352	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	258387	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	129977	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	92747	4.62	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	92.40%
7) Chloroethane-d5	1.93	69	79083	4.67	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	93.40%
11) 1,1-Dichloroethene-d2	2.59	63	122686	3.44	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	68.80%
20) 2-Butanone-d5	4.66	46	283112	51.34	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	102.68%
24) Chloroform-d	5.10	84	153873	4.80	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.00%
26) 1,2-Dichloroethane-d4	5.74	65	91213	4.95	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.00%
32) Benzene-d6	5.76	84	327215	4.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.40%
36) 1,2-Dichloropropane-d6	6.72	67	110248	4.85	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.00%
41) Toluene-d8	7.92	98	292290	4.61	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.20%
43) trans-1,3-Dichloropropene-	8.20	79	45462	4.45	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.00%
46) 2-Hexanone-d5	8.65	63	255124	48.83	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.66%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	85862	4.79	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.80%
64) 1,2-Dichlorobenzene-d4	12.21	152	111112	4.79	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.80%

Target Compounds

					Ovalue
5) Vinyl chloride	1.62	62	51279	1.834	ug/L 89
12) 1,1-Dichloroethene	2.60	96	8597	0.469	ug/L # 1
13) Acetone	2.66	43	3119	0.858	ug/L 99
15) Methyl Acetate	3.07	43	10683	1.057	ug/L # 54
18) trans-1,2-Dichloroethene	3.39	96	2665	0.134	ug/L 83
19) 1,1-Dichloroethane	3.91	63	40705	1.060	ug/L 100
22) cis-1,2-Dichloroethene	4.71	96	245349	11.438	ug/L 95
25) Chloroform	5.13	83	130404	3.575	ug/L 99
29) 1,1,1-Trichloroethane	5.35	97	78265	2.496	ug/L 98
30) Cyclohexane	5.42	56	7391	0.190	ug/L 93
31) Carbon tetrachloride	5.36	117	9378	0.375	ug/L 99
34) Trichloroethene	6.57	95	10283	0.490	ug/L 94
35) Methylcyclohexane	6.72	83	23944	0.651	ug/L # 17
37) 1,2-Dichloropropane	6.72	63	12013	0.531	ug/L # 87
39) cis-1,3-Dichloropropene	7.59	75	3032	0.086	ug/L # 64
51) Chlorobenzene	9.47	112	32508	0.596	ug/L 97
59) 1,2,3-Trichloropropane	11.83	75	21428	1.446	ug/L 99

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Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Apr 17 01:29:02 2020
Response via : Initial Calibration

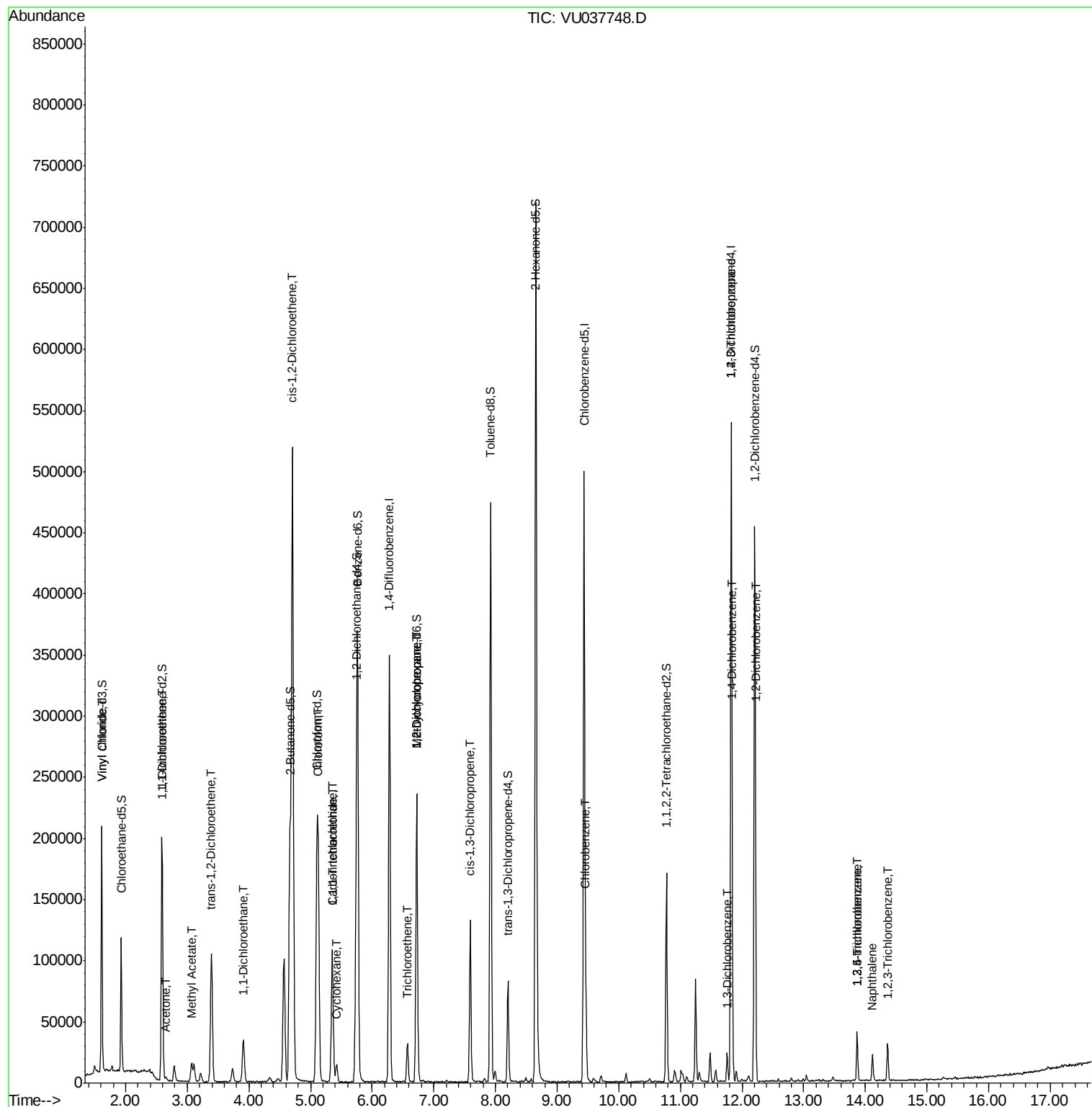
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) 1,3-Dichlorobenzene	11.76	146	8797	0.202	ug/L	99
63) 1,4-Dichlorobenzene	11.85	146	8742	0.200	ug/L	95
65) 1,2-Dichlorobenzene	12.23	146	3868	0.094	ug/L	90
67) 1,3,5-Trichlorobenzene	13.87	180	10465	0.328	ug/L	95
68) 1,2,4-trichlorobenzene	13.87	180	10465	0.357	ug/L	94
69) Naphthalene	14.12	128	16930	0.285	ug/L	96
70) 1,2,3-Trichlorobenzene	14.36	180	8693	0.333	ug/L	98

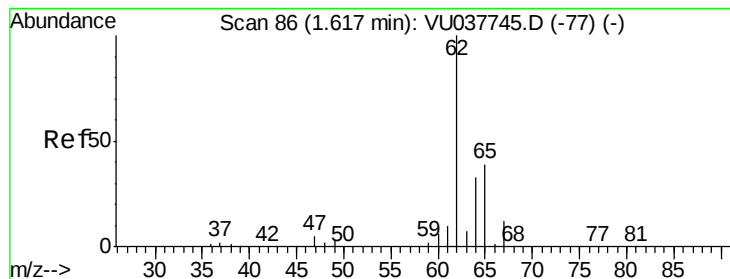
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU041620\
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#5

Vinyl chloride

Concen: 1.834 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU037748.D

Acq: 16 Apr 2020 12:32

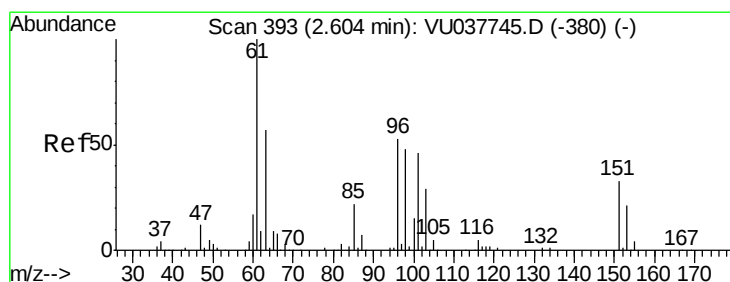
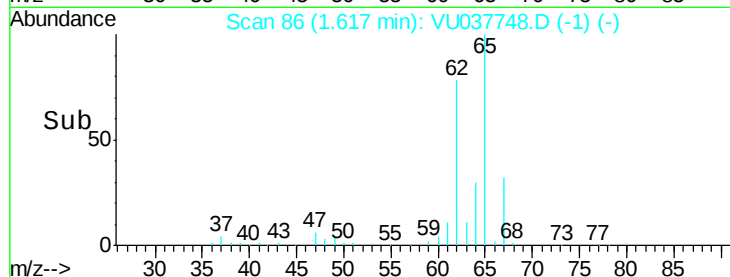
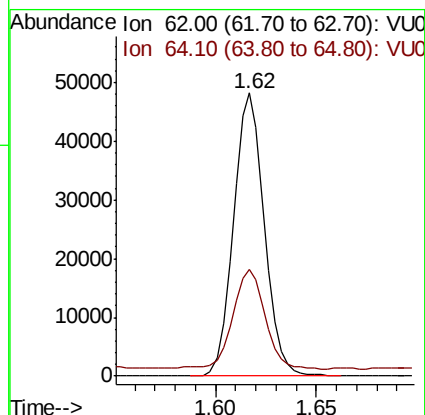
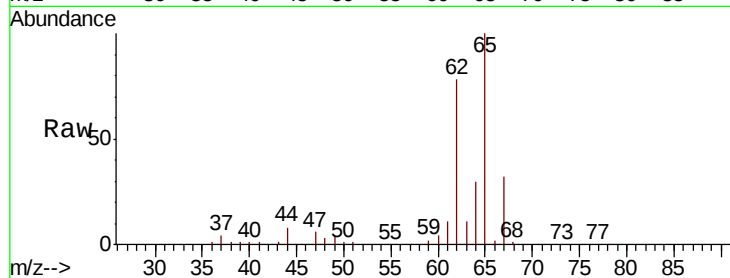
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 62 Resp: 51279

Ion Ratio Lower Upper

62 100

64 37.8 22.1 41.1



#12

1,1-Dichloroethene

Concen: 0.469 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037748.D

Acq: 16 Apr 2020 12:32

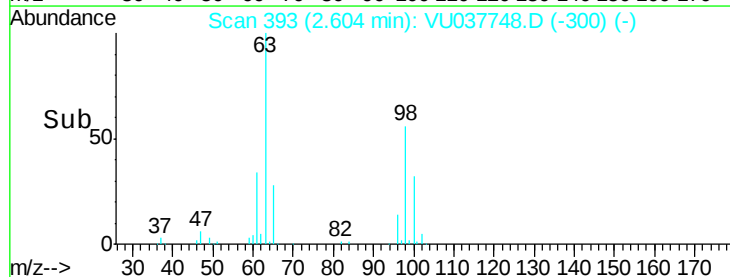
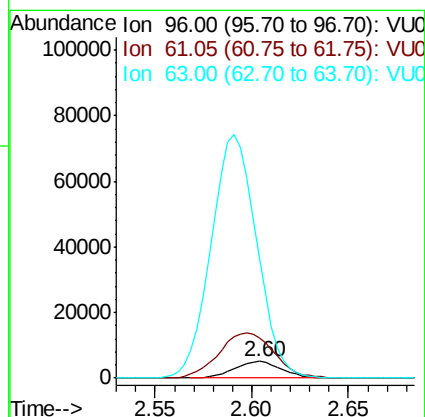
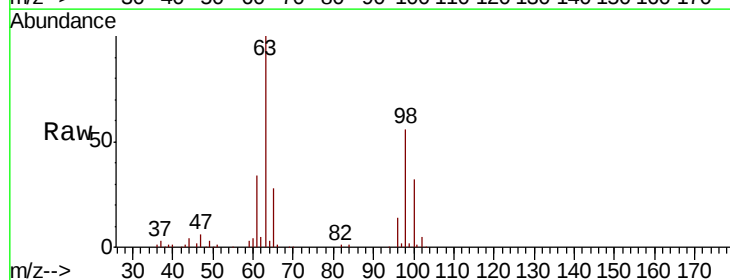
Tgt Ion: 96 Resp: 8597

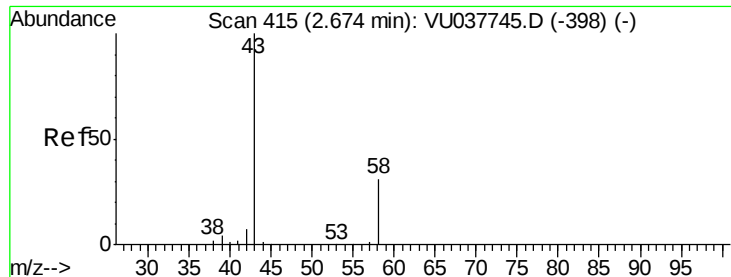
Ion Ratio Lower Upper

96 100

61 243.6 127.7 237.3#

63 717.8 85.0 157.8#





#13

Acetone

Concen: 0.858 ug/L

RT: 2.66 min Scan# 409

Delta R.T. -0.02 min

Lab File: VU037748.D

Acq: 16 Apr 2020 12:32

Instrument :

MSVOA_U

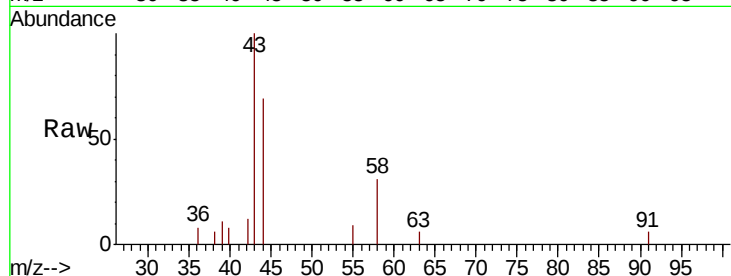
ClientSampleId :

Tot Ion: 43 Resp: 3119

Ion Ratio Lower Upper

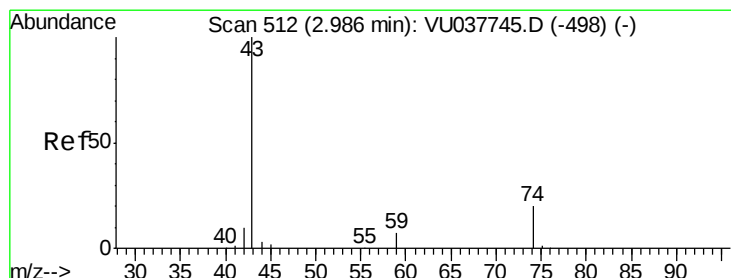
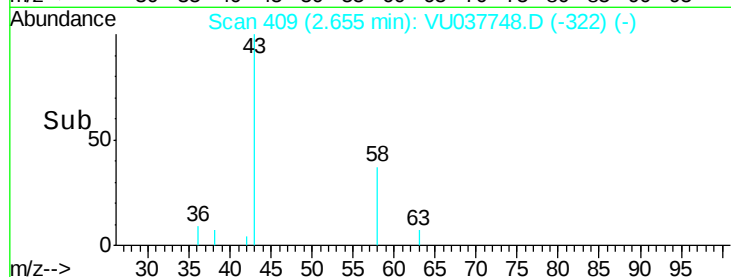
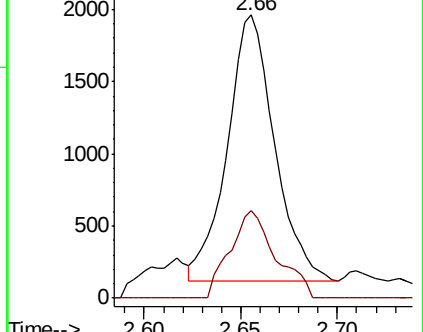
43 100

58 32.1 0.0 64.8



Abundance Ion 43.05 (42.75 to 43.75): VU037748.D (-409) (-)

Ion 58.05 (57.75 to 58.75): VU037748.D (-409) (-)



#15

Methyl Acetate

Concen: 1.057 ug/L

RT: 3.07 min Scan# 539

Delta R.T. 0.09 min

Lab File: VU037748.D

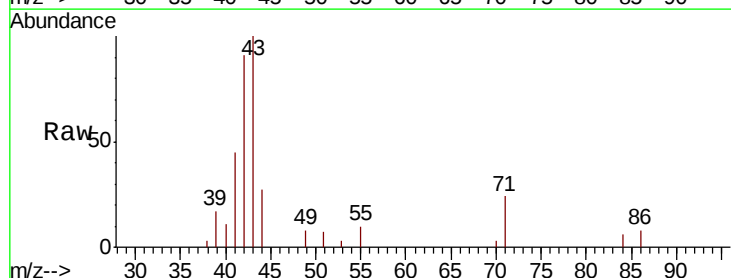
Acq: 16 Apr 2020 12:32

Tgt Ion: 43 Resp: 10683

Ion Ratio Lower Upper

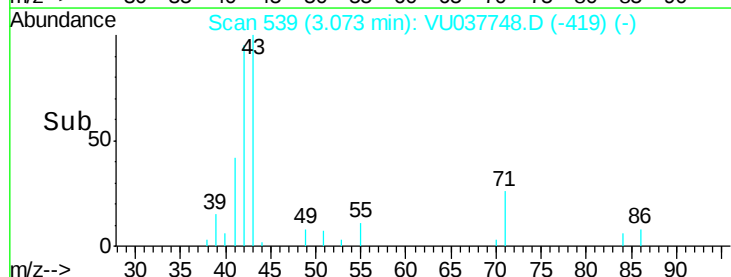
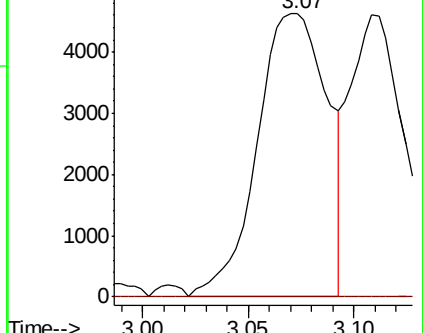
43 100

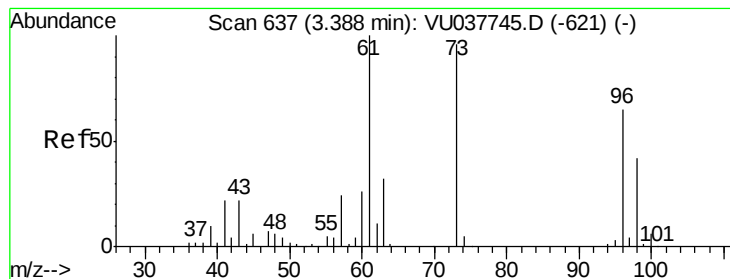
74 0.0 17.2 25.8#



Abundance Ion 43.05 (42.75 to 43.75): VU037748.D (-539) (-)

Ion 74.05 (73.75 to 74.75): VU037748.D (-539) (-)





#18

trans-1,2-Dichloroethene

Concen: 0.134 ug/L

RT: 3.39 min Scan# 636

Delta R.T. -0.00 min

Lab File: VU037748.D

Acq: 16 Apr 2020 12:32

Instrument :

MSVOA_U

ClientSampleId :

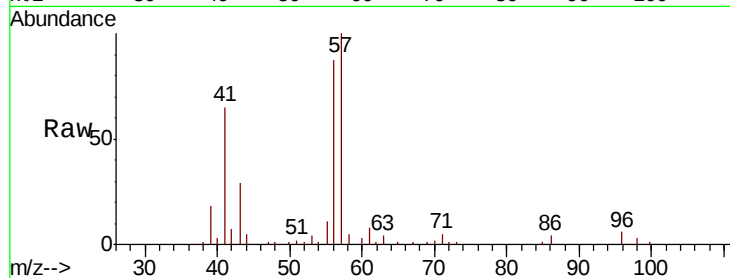
Tot Ion: 96 Resp: 2665

Ion Ratio Lower Upper

96 100

61 129.9 106.7 198.3

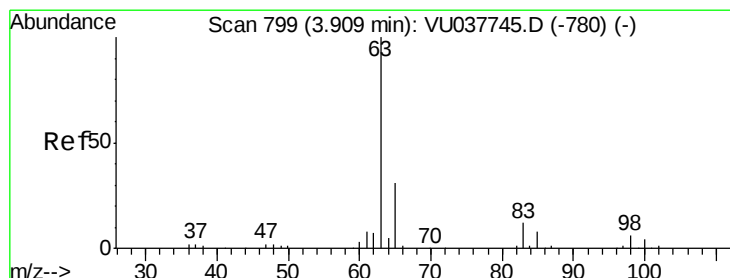
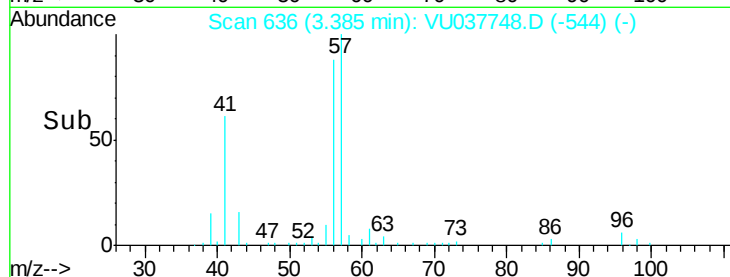
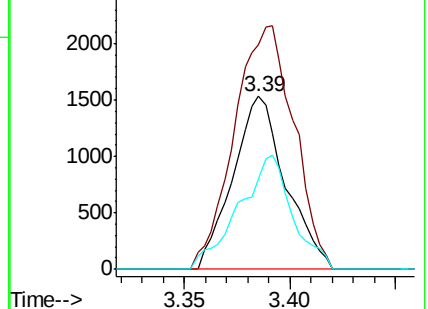
98 52.1 44.3 82.3



Abundance Ion 96.00 (95.70 to 96.70): VU037748.D (-544) (-)

Ion 61.05 (60.75 to 61.75): VU037748.D (-544) (-)

Ion 97.95 (97.65 to 98.65): VU037748.D (-544) (-)



#19

1,1-Dichloroethane

Concen: 1.060 ug/L

RT: 3.91 min Scan# 799

Delta R.T. 0.00 min

Lab File: VU037748.D

Acq: 16 Apr 2020 12:32

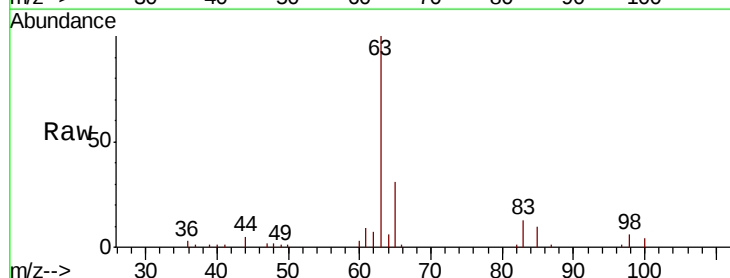
Tgt Ion: 63 Resp: 40705

Ion Ratio Lower Upper

63 100

65 30.8 21.6 40.2

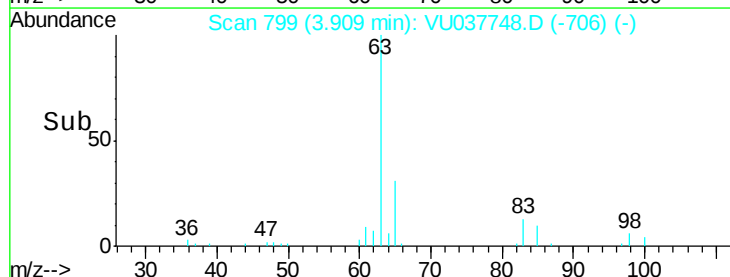
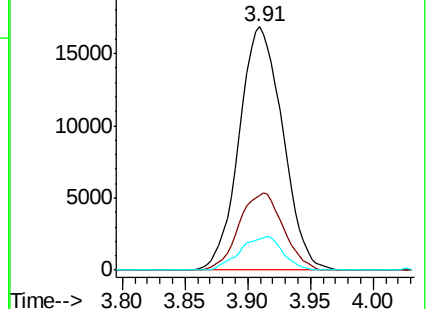
83 12.6 8.6 16.0

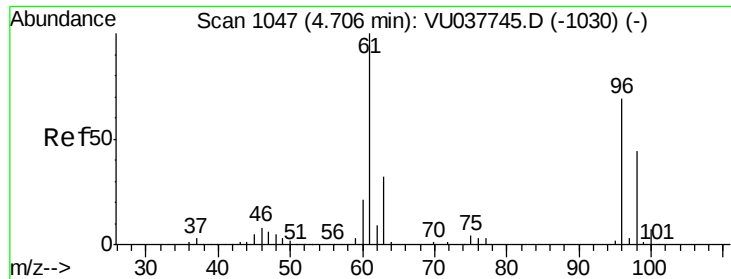


Abundance Ion 63.10 (62.80 to 63.80): VU037748.D (-706) (-)

Ion 65.10 (64.80 to 65.80): VU037748.D (-706) (-)

Ion 83.05 (82.75 to 83.75): VU037748.D (-706) (-)





#22

cis-1,2-Dichloroethene

Concen: 11.438 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. 0.00 min

Lab File: VU037748.D

Acq: 16 Apr 2020 12:32

Instrument :
MSVOA_U
ClientSampleId :

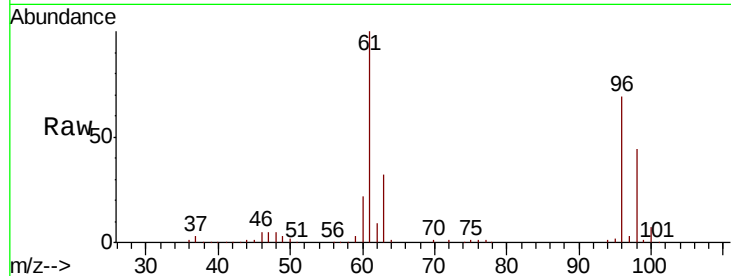
Tot Ion: 96 Resp: 245349

Ion Ratio Lower Upper

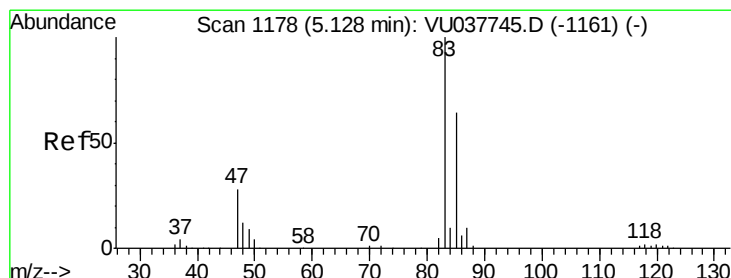
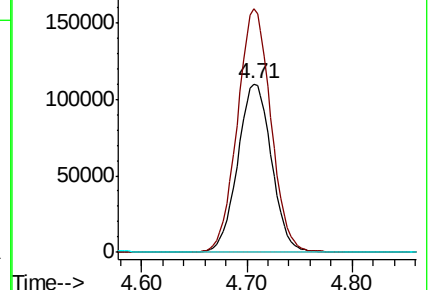
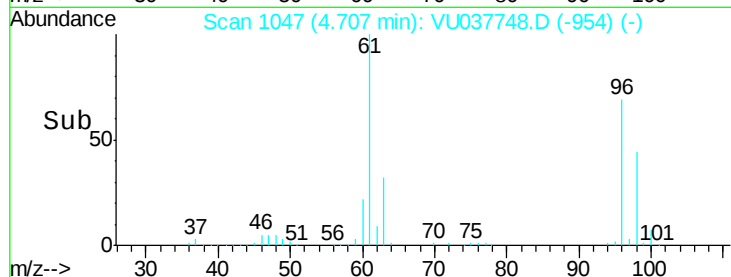
96 100

61 144.4 97.0 180.2

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: 3.575 ug/L

RT: 5.13 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VU037748.D

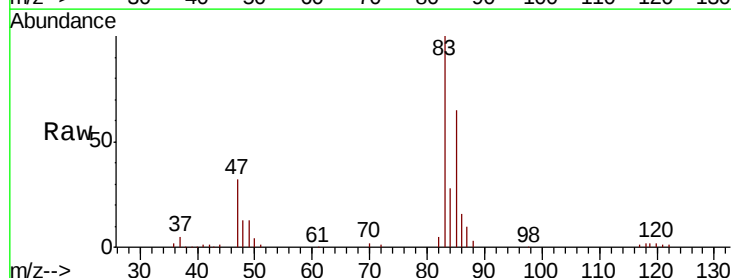
Acq: 16 Apr 2020 12:32

Tgt Ion: 83 Resp: 130404

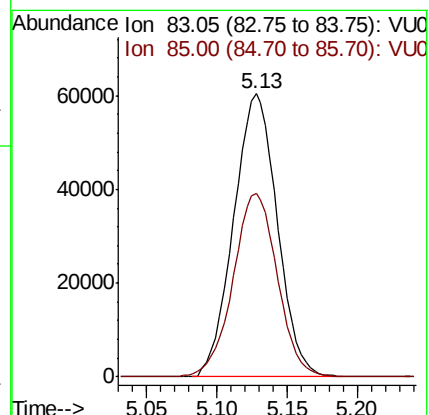
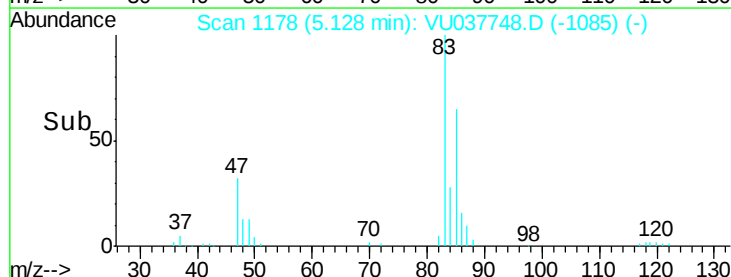
Ion Ratio Lower Upper

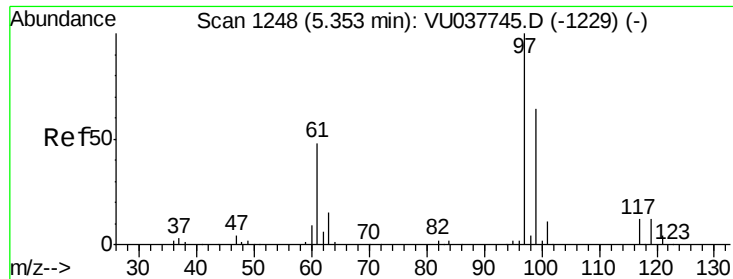
83 100

85 64.7 44.9 83.3



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

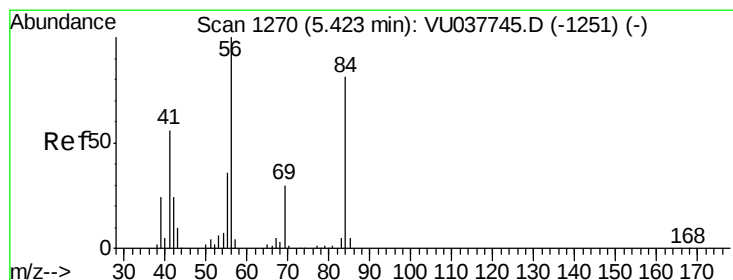
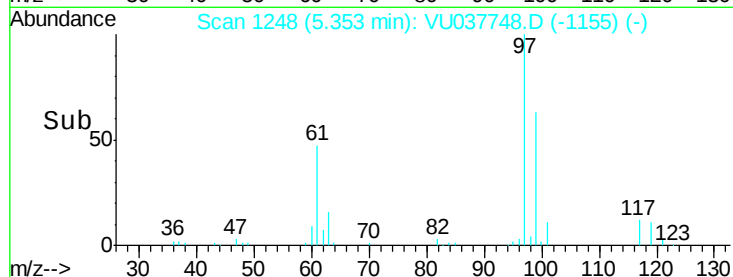
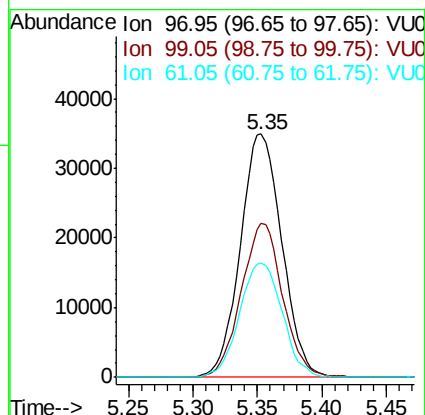
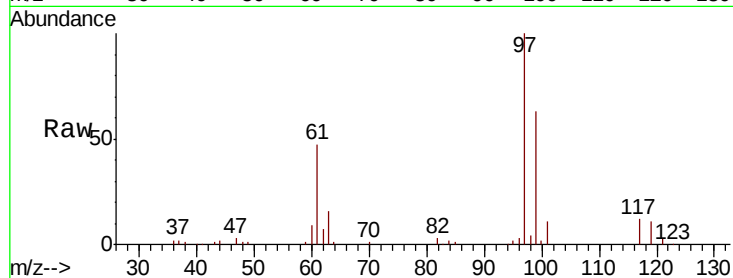




#29
 1,1,1-Trichloroethane
 Concen: 2.496 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. 0.00 min
 Lab File: VU037748.D
 Acq: 16 Apr 2020 12:32

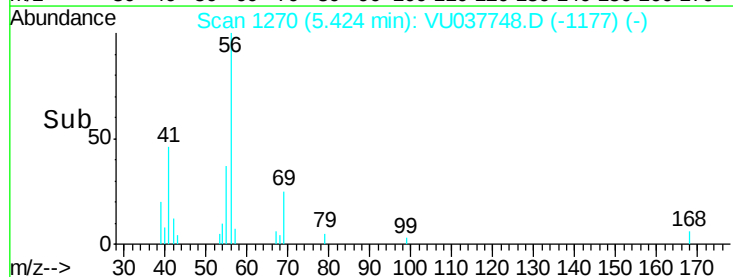
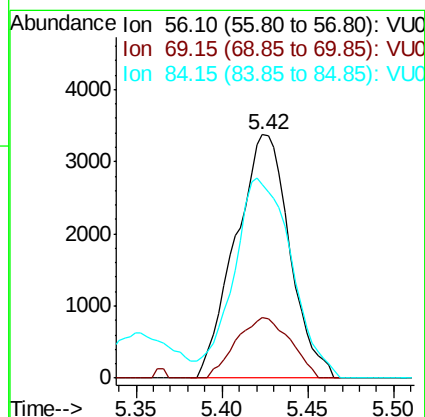
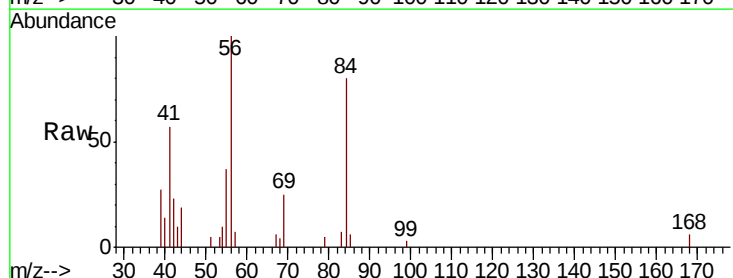
Instrument :
 MSVOA_U
 ClientSampleId :

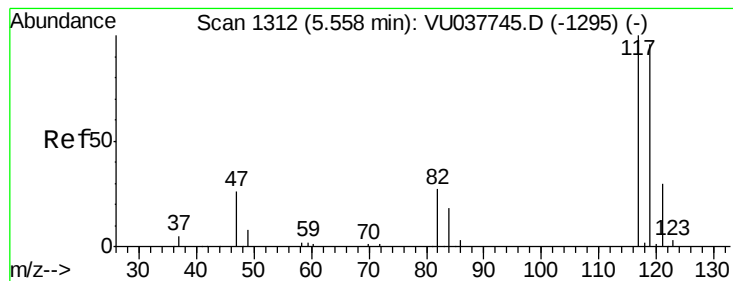
Tot Ion: 97 Resp: 78265
 Ion Ratio Lower Upper
 97 100
 99 63.4 52.0 78.0
 61 48.5 37.8 56.8



#30
 Cyclohexane
 Concen: 0.190 ug/L
 RT: 5.42 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VU037748.D
 Acq: 16 Apr 2020 12:32

Tgt Ion: 56 Resp: 7391
 Ion Ratio Lower Upper
 56 100
 69 24.8 23.9 35.9
 84 87.9 65.6 98.4





#31

Carbon tetrachloride

Concen: 0.375 ug/L

RT: 5.36 min Scan# 1249

Delta R.T. -0.20 min

Lab File: VU037748.D

Acq: 16 Apr 2020 12:32

Instrument :

MSVOA_U

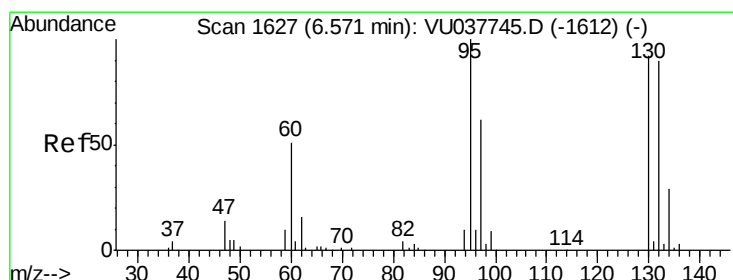
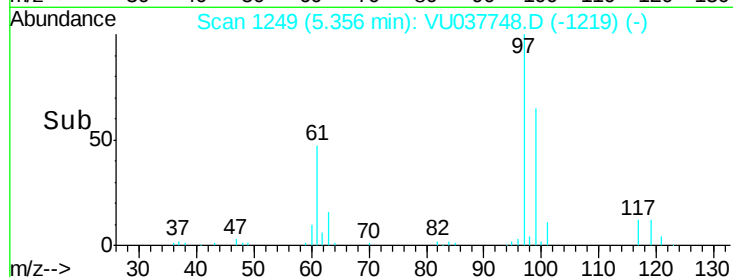
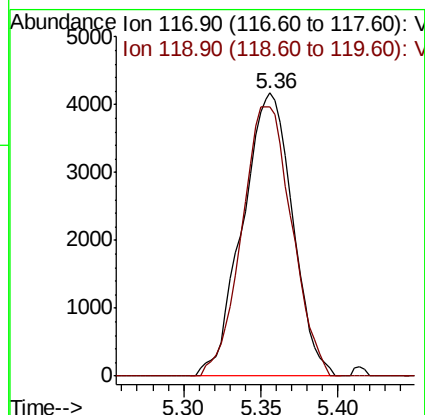
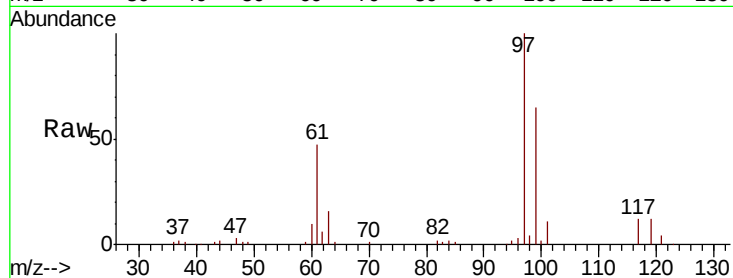
ClientSampleId :

Tot Ion:117 Resp: 9378

Ion Ratio Lower Upper

117 100

119 95.2 77.4 116.0



#34

Trichloroethene

Concen: 0.490 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. 0.00 min

Lab File: VU037748.D

Acq: 16 Apr 2020 12:32

Tgt Ion: 95 Resp: 10283

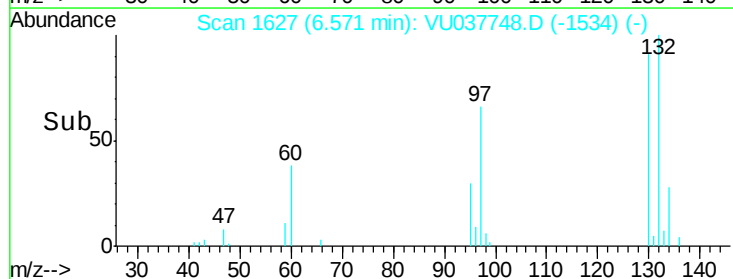
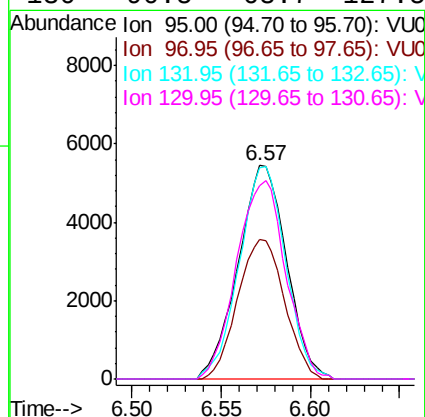
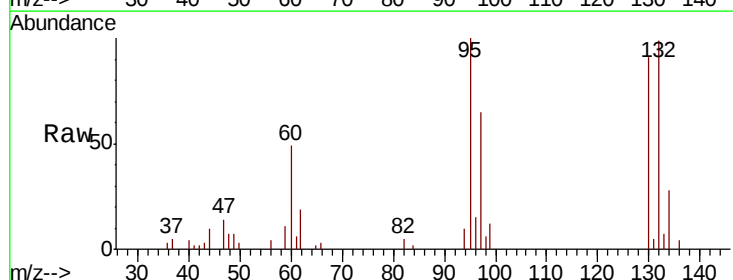
Ion Ratio Lower Upper

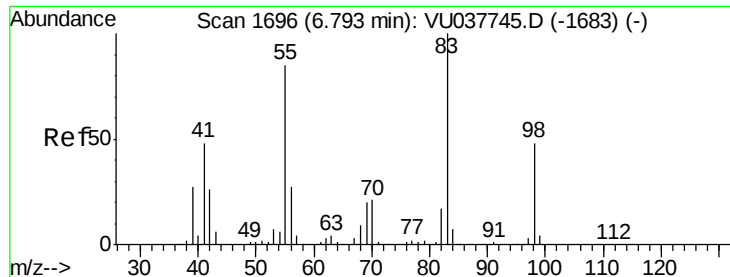
95 100

97 65.0 45.4 84.2

132 99.1 63.7 118.3

130 90.5 68.7 127.5

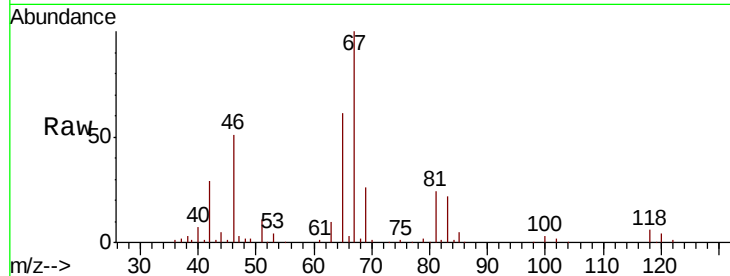




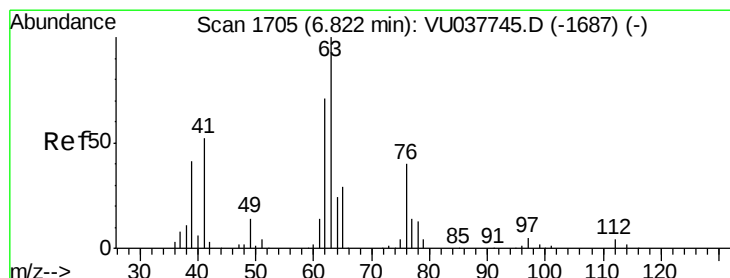
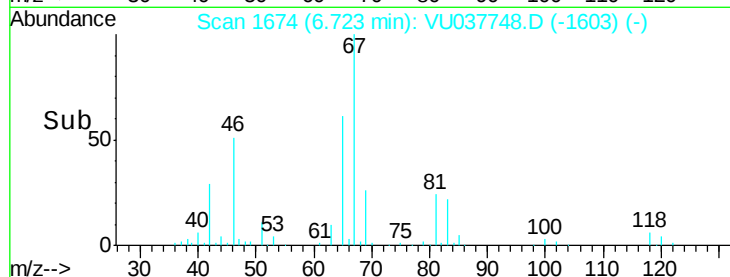
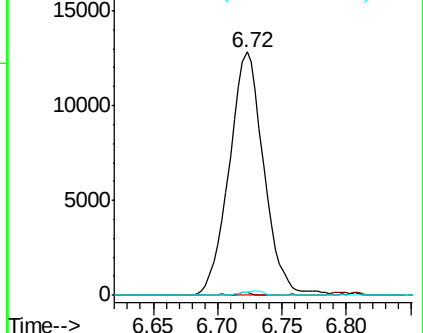
#35
Methvlcvclohexane
Concen: 0.651 ug/L
RT: 6.72 min Scan# 1674
Delta R.T. -0.07 min
Lab File: VU037748.D
Acq: 16 Apr 2020 12:32

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 83 Resp: 23944
Ion Ratio Lower Upper
83 100
55 0.4 65.5 98.3#
98 1.1 38.2 57.4#

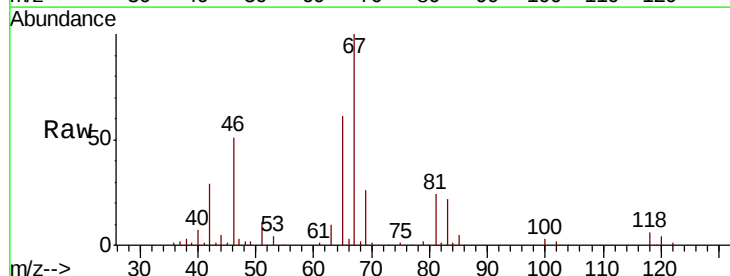


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

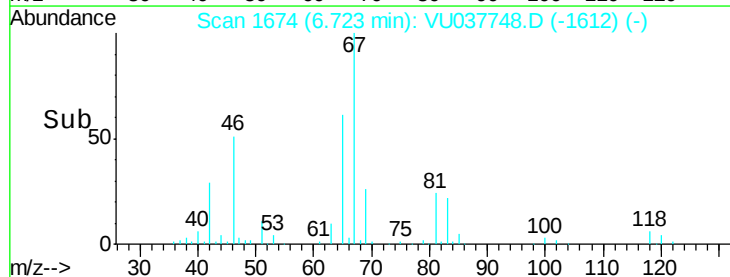
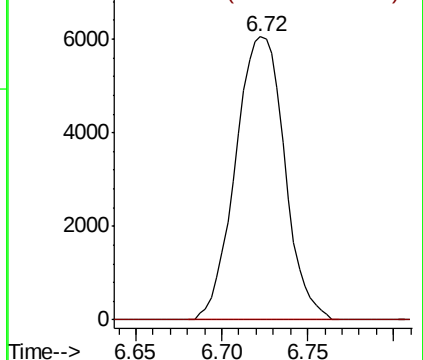


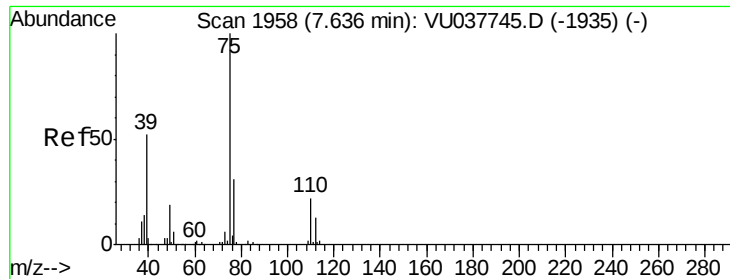
#37
1,2-Dichloropropane
Concen: 0.531 ug/L
RT: 6.72 min Scan# 1674
Delta R.T. -0.10 min
Lab File: VU037748.D
Acq: 16 Apr 2020 12:32

Tgt Ion: 63 Resp: 12013
Ion Ratio Lower Upper
63 100
112 0.0 3.4 5.0#



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 112.10 (111.80 to 112.80): V

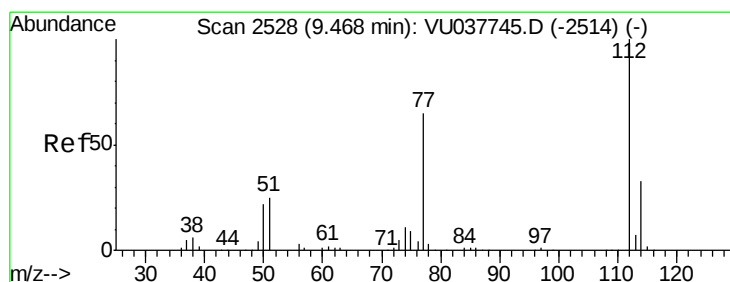
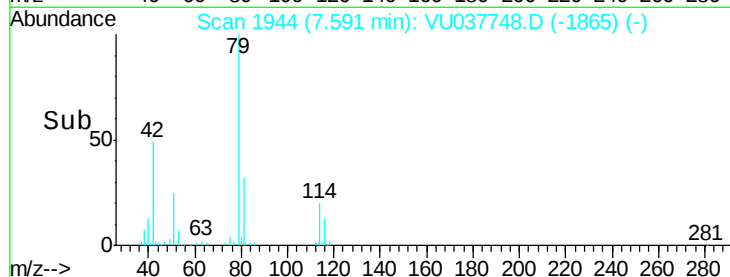
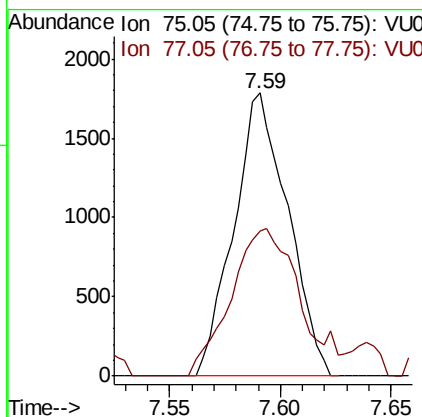
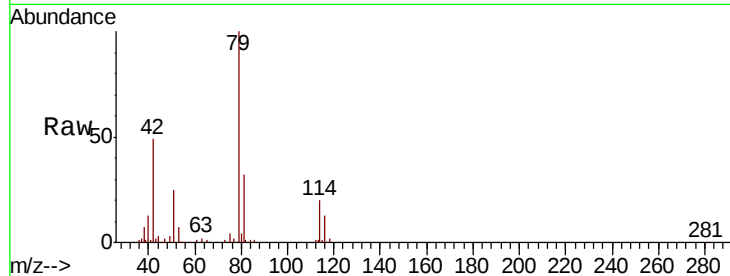




#39
 cis-1,3-Dichloropropene
 Concen: 0.086 ug/L
 RT: 7.59 min Scan# 1944
 Delta R.T. -0.04 min
 Lab File: VU037748.D
 Acq: 16 Apr 2020 12:32

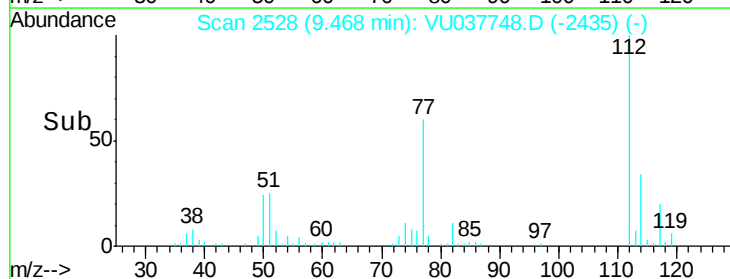
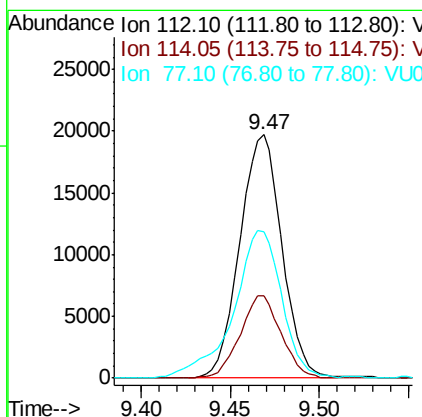
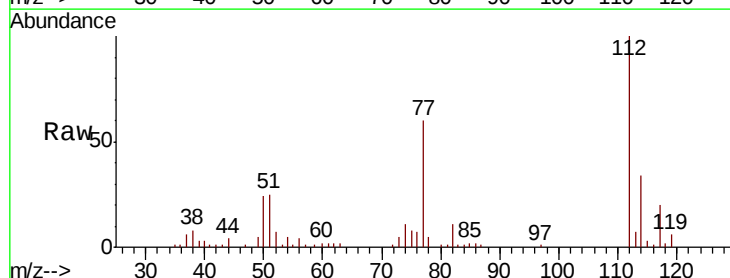
Instrument :
 MSVOA_U
 ClientSampleId :

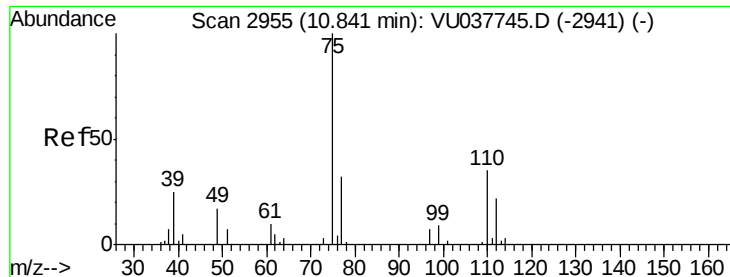
Tot Ion: 75 Resp: 3032
 Ion Ratio Lower Upper
 75 100
 77 51.5 22.2 41.2#



#51
 Chlorobenzene
 Concen: 0.596 ug/L
 RT: 9.47 min Scan# 2528
 Delta R.T. 0.00 min
 Lab File: VU037748.D
 Acq: 16 Apr 2020 12:32

Tgt Ion: 112 Resp: 32508
 Ion Ratio Lower Upper
 112 100
 114 33.8 22.6 42.0
 77 60.0 50.2 75.4

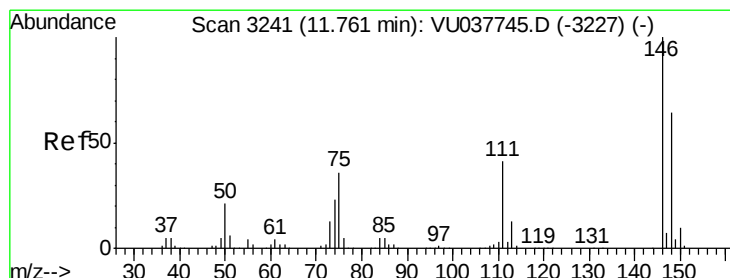
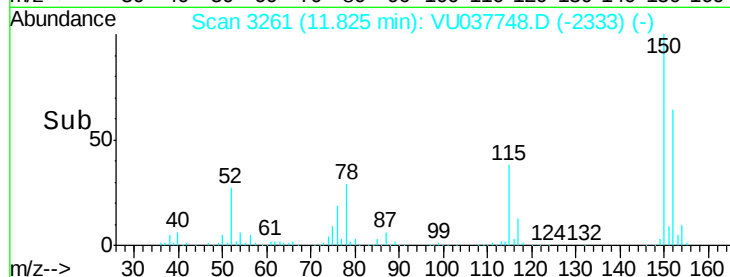
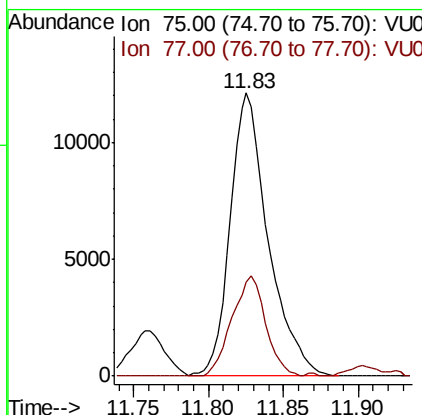
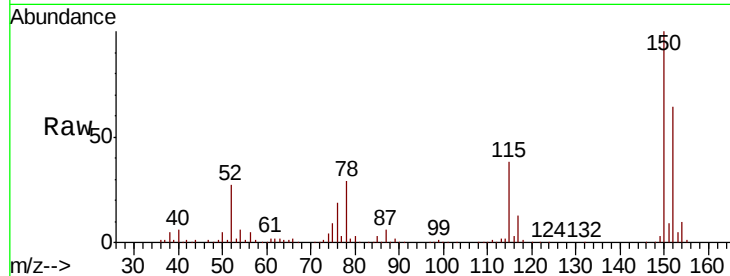




#59
 1,2,3-Trichloropropane
 Concen: 1.446 ug/L
 RT: 11.83 min Scan# 3261
 Delta R.T. 0.98 min
 Lab File: VU037748.D
 Acq: 16 Apr 2020 12:32

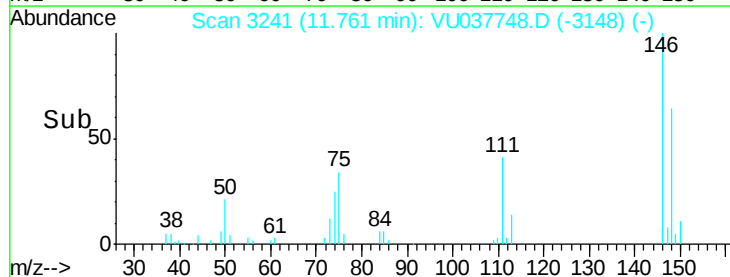
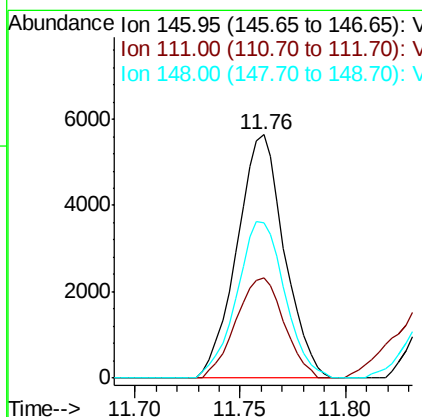
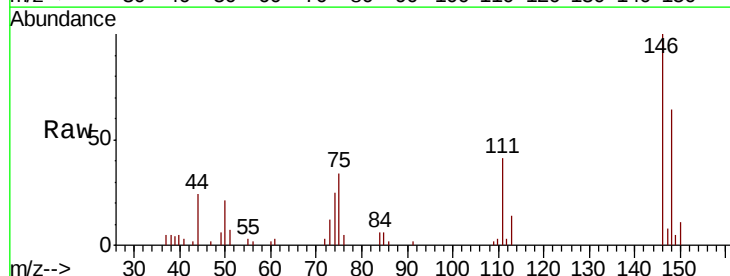
Instrument :
 MSVOA_U
 ClientSampleId :

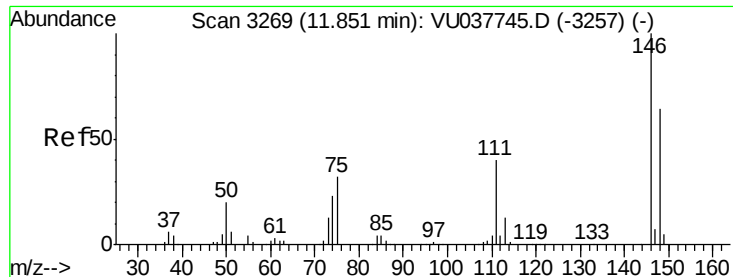
Tot Ion: 75 Resp: 21428
 Ion Ratio Lower Upper
 75 100
 77 31.4 25.4 38.2



#62
 1,3-Dichlorobenzene
 Concen: 0.202 ug/L
 RT: 11.76 min Scan# 3241
 Delta R.T. 0.00 min
 Lab File: VU037748.D
 Acq: 16 Apr 2020 12:32

Tgt Ion: 146 Resp: 8797
 Ion Ratio Lower Upper
 146 100
 111 41.2 29.8 55.3
 148 63.6 44.5 82.7





#63

1,4-Dichlorobenzene

Concen: 0.200 ug/L

RT: 11.85 min Scan# 3268

Delta R.T. -0.00 min

Lab File: VU037748.D

Acq: 16 Apr 2020 12:32

Instrument :

MSVOA_U

ClientSampleId :

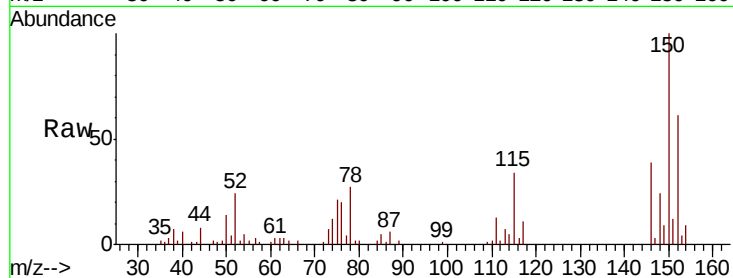
Tot Ion:146 Resp: 8742

Ion Ratio Lower Upper

146 100

111 33.3 28.4 52.8

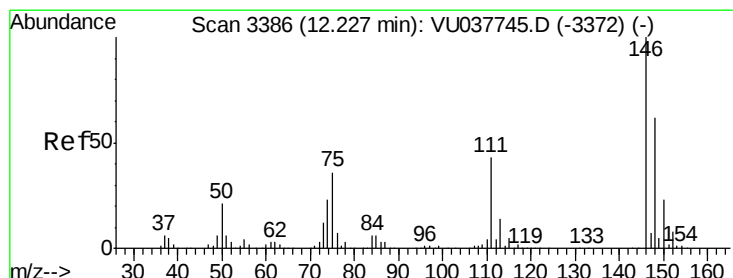
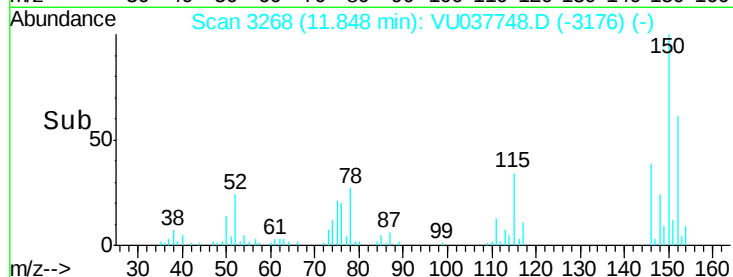
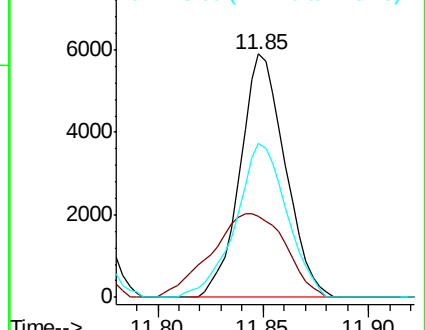
148 63.2 44.9 83.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,2-Dichlorobenzene

Concen: 0.094 ug/L

RT: 12.23 min Scan# 3386

Delta R.T. 0.00 min

Lab File: VU037748.D

Acq: 16 Apr 2020 12:32

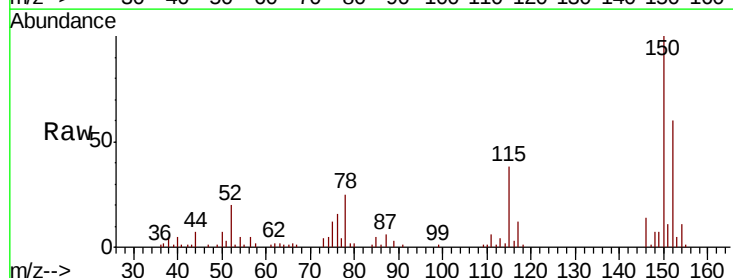
Tgt Ion:146 Resp: 3868

Ion Ratio Lower Upper

146 100

111 40.6 35.0 52.6

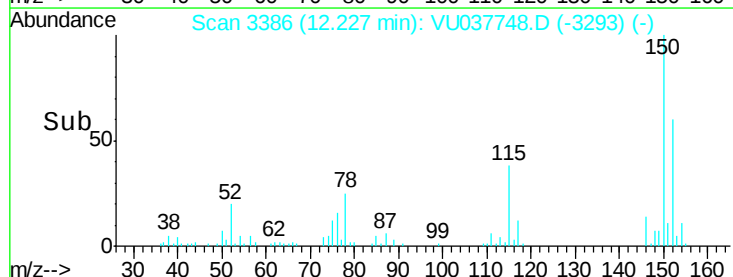
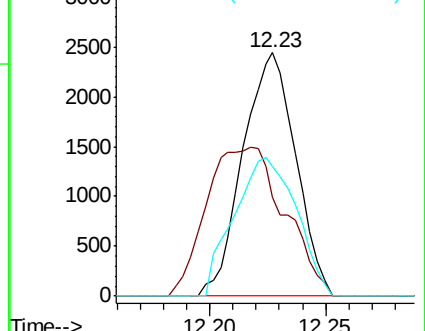
148 53.3 51.5 77.3

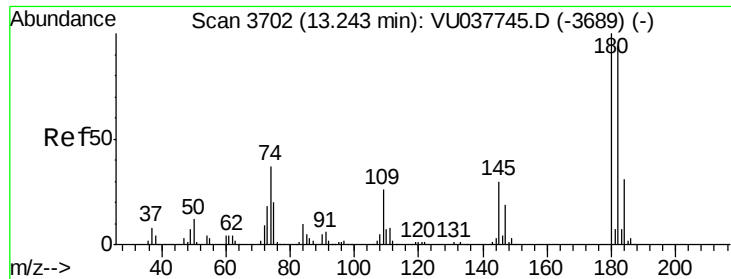


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

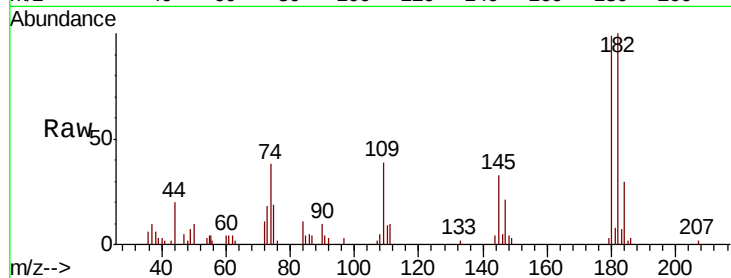




#67
 1,3,5-Trichlorobenzene
 Concen: 0.328 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. 0.62 min
 Lab File: VU037748.D
 Acq: 16 Apr 2020 12:32

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	102.2	77.1	115.7
184	32.4	24.7	37.1
145	33.8	24.6	37.0



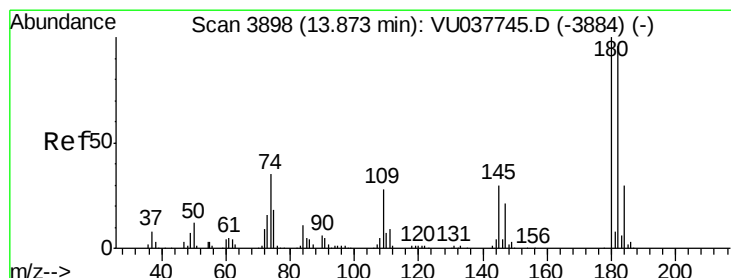
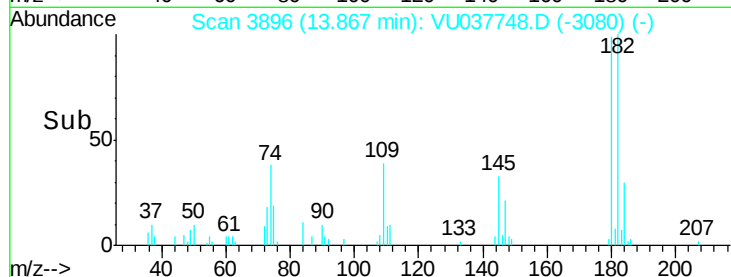
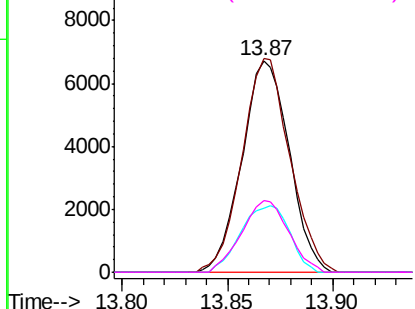
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

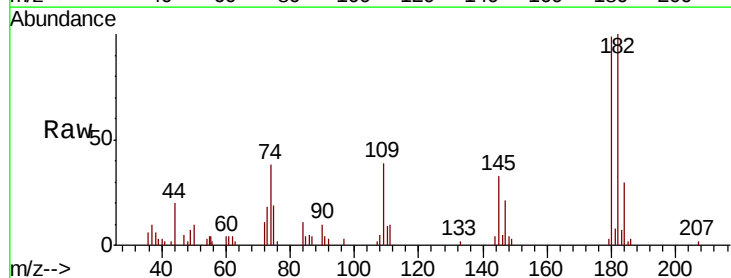
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 0.357 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. -0.01 min
 Lab File: VU037748.D
 Acq: 16 Apr 2020 12:32

Tgt Ion	Ratio	Lower	Upper
180	100		
182	102.2	76.4	114.6
145	33.8	25.1	37.7

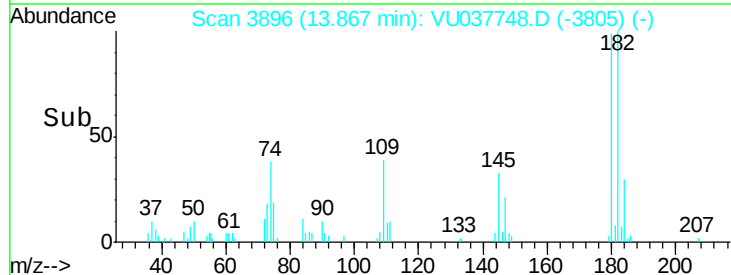
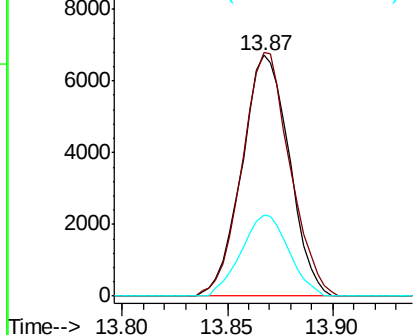


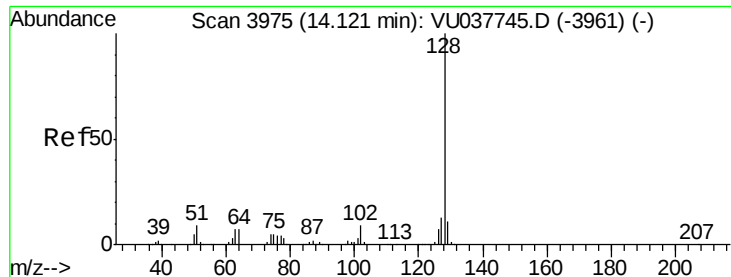
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 0.285 ug/L

RT: 14.12 min Scan# 3974

Delta R.T. -0.00 min

Lab File: VU037748.D

Acq: 16 Apr 2020 12:32

Instrument :

MSVOA_U

ClientSampled :

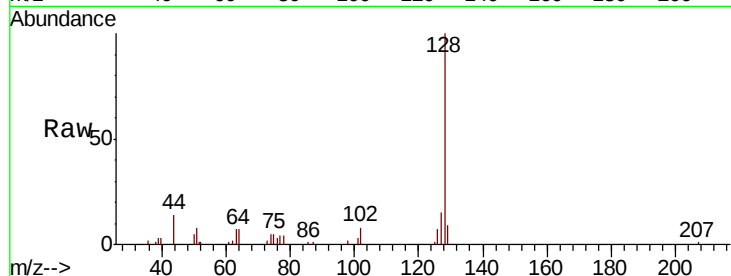
Tot Ion:128 Resp: 16930

Ion Ratio Lower Upper

128 100

129 10.2 8.6 12.8

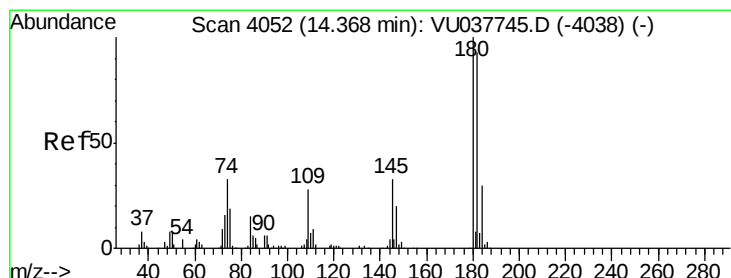
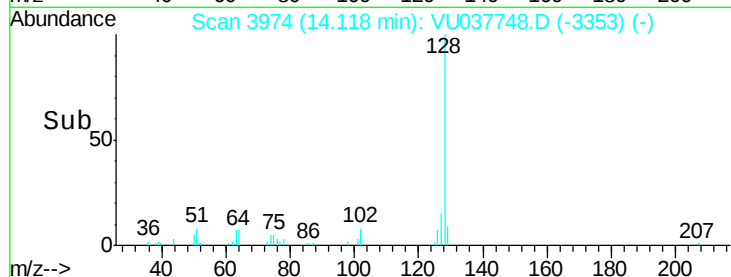
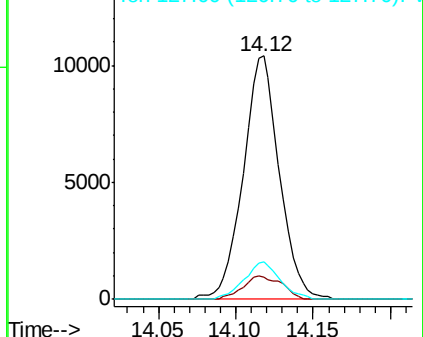
127 15.4 10.4 15.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 0.333 ug/L

RT: 14.36 min Scan# 4050

Delta R.T. -0.01 min

Lab File: VU037748.D

Acq: 16 Apr 2020 12:32

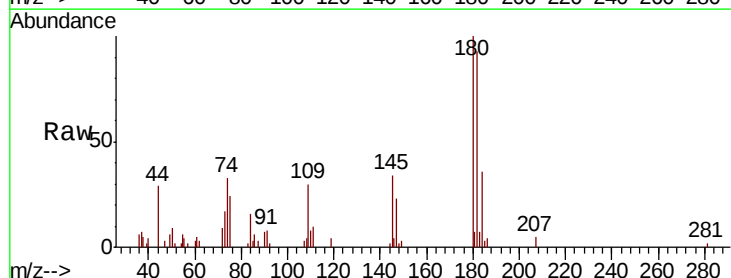
Tgt Ion:180 Resp: 8693

Ion Ratio Lower Upper

180 100

182 94.2 76.6 115.0

145 34.3 26.7 40.1



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

