

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU031620\
 Data File : VU037305.D
 Acq On : 16 Mar 2020 20:19
 Operator : JC/MD
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Mar 17 01:36:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR031620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Mar 17 01:33:31 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	134960	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	131511	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	69283	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	33244	4.73	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	94.60%
7) Chloroethane-d5	1.93	69	30845	4.91	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	98.20%
11) 1,1-Dichloroethene-d2	2.59	63	74637	4.83	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	96.60%
20) 2-Butanone-d5	4.67	46	104629	49.25	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	98.50%
24) Chloroform-d	5.11	84	81769	5.04	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.80%
26) 1,2-Dichloroethane-d4	5.74	65	45294	4.78	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.60%
32) Benzene-d6	5.76	84	140348	5.04	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.80%
36) 1,2-Dichloropropane-d6	6.73	67	44812	4.90	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.00%
41) Toluene-d8	7.92	98	135633	5.00	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.00%
43) trans-1,3-Dichloropropene-	8.20	79	19441	4.78	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	95.60%
46) 2-Hexanone-d5	8.66	63	92751	51.11	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	102.22%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	39901	5.09	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.80%
64) 1,2-Dichlorobenzene-d4	12.21	152	54716	4.84	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	78484	5.024	ug/L 100
3) Chloromethane	1.53	50	59405	3.874	ug/L 100
5) Vinyl chloride	1.62	62	66542	4.847	ug/L 98
6) Bromomethane	1.87	94	16634	2.383	ug/L 98
8) Chloroethane	1.95	64	39107	4.940	ug/L 98
9) Trichlorofluoromethane	2.16	101	102739	4.962	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	47841	4.991	ug/L 99
12) 1,1-Dichloroethene	2.60	96	43326	5.007	ug/L 96
13) Acetone	2.66	43	81597	45.412	ug/L 97
14) Carbon disulfide	2.82	76	135127	4.845	ug/L 98
15) Methyl Acetate	2.98	43	20291	4.911	ug/L 100
16) Methylene chloride	3.08	84	52928	5.083	ug/L 99
17) Methyl tert-butyl Ether	3.40	73	123239	4.955	ug/L 99
18) trans-1,2-Dichloroethene	3.39	96	45857	4.918	ug/L 95
19) 1,1-Dichloroethane	3.91	63	92325	4.915	ug/L 94
21) 2-Butanone	4.75	43	138431	48.244	ug/L 98
22) cis-1,2-Dichloroethene	4.71	96	51937	5.020	ug/L 97

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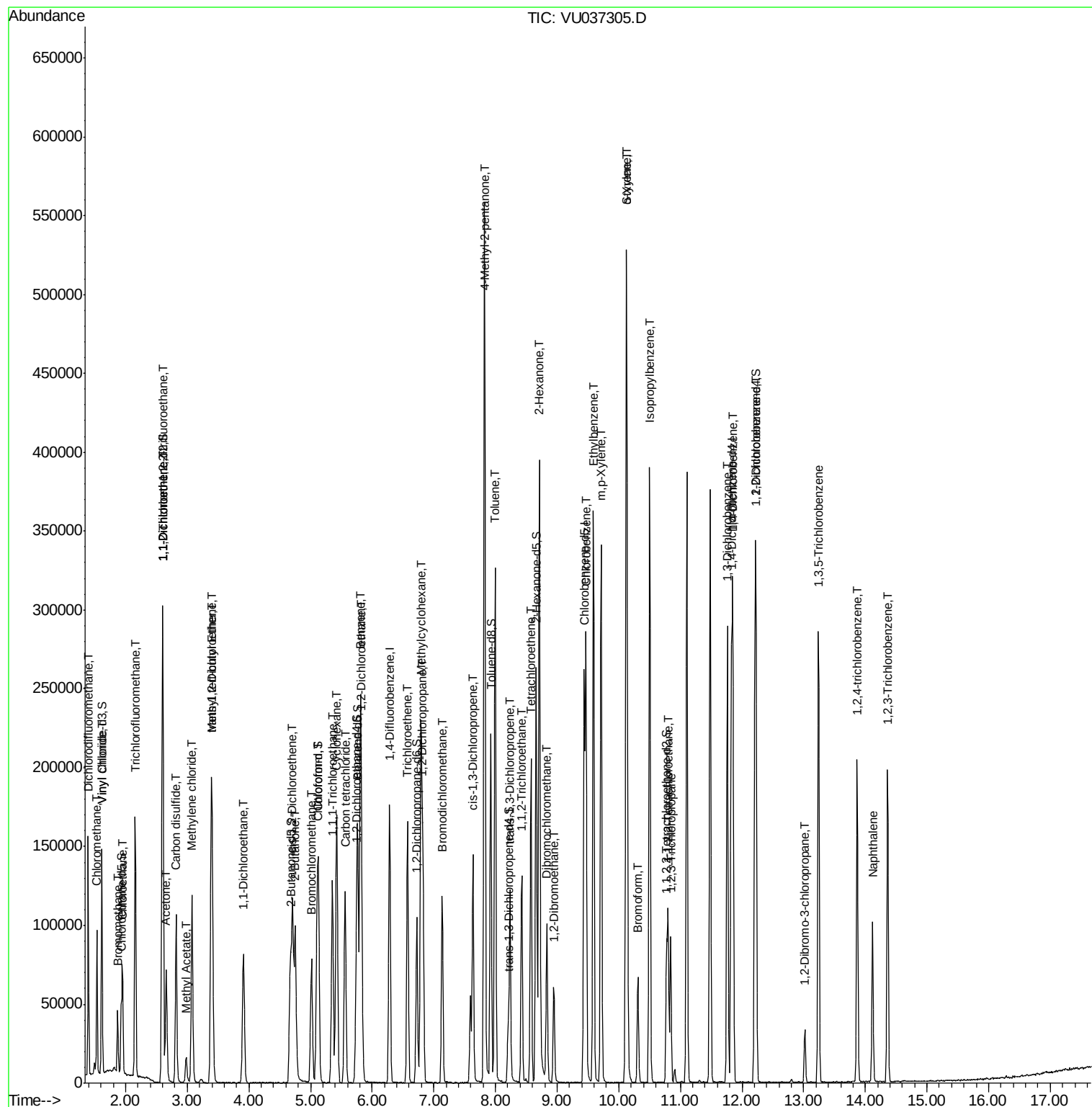
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	23773	5.072	ug/L	98
25) Chloroform	5.13	83	102350	5.005	ug/L	99
27) 1,2-Dichloroethane	5.83	62	69377	4.828	ug/L	100
29) 1,1,1-Trichloroethane	5.36	97	90757	5.046	ug/L	97
30) Cyclohexane	5.42	56	80959	5.024	ug/L	99
31) Carbon tetrachloride	5.56	117	80884	5.111	ug/L	98
33) Benzene	5.81	78	202748	5.134	ug/L	100
34) Trichloroethene	6.57	95	54693	5.069	ug/L	99
35) Methylcyclohexane	6.79	83	81610	5.001	ug/L	97
37) 1,2-Dichloropropane	6.82	63	53185	5.092	ug/L	99
38) Bromodichloromethane	7.14	83	73855	5.024	ug/L	95
39) cis-1,3-Dichloropropene	7.64	75	81124	5.166	ug/L	97
40) 4-Methyl-2-pentanone	7.82	43	355493	50.465	ug/L	100
42) Toluene	8.00	91	222170	5.218	ug/L	100
44) trans-1,3-Dichloropropene	8.24	75	67063	5.091	ug/L	97
45) 1,1,2-Trichloroethane	8.42	97	38728	5.142	ug/L	97
47) Tetrachloroethene	8.58	164	43196	5.154	ug/L	96
48) 2-Hexanone	8.71	43	251968	48.712	ug/L	99
49) Dibromochloromethane	8.83	129	50189	5.110	ug/L	97
50) 1,2-Dibromoethane	8.95	107	36720	5.017	ug/L	90
51) Chlorobenzene	9.47	112	138931	5.055	ug/L	97
52) Ethylbenzene	9.59	91	245829	5.089	ug/L	98
53) m,p-Xylene	9.71	106	89622	5.044	ug/L	94
54) o-Xylene	10.12	106	89413	5.272	ug/L	99
55) Styrene	10.13	104	148891	5.216	ug/L	96
56) Isopropylbenzene	10.50	105	243179	5.131	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	48729	4.907	ug/L	98
59) 1,2,3-Trichloropropane	10.84	75	36702	4.947	ug/L	99
61) Bromoform	10.31	173	29504	4.830	ug/L	99
62) 1,3-Dichlorobenzene	11.76	146	111856	4.810	ug/L	99
63) 1,4-Dichlorobenzene	11.85	146	109696	4.737	ug/L	96
65) 1,2-Dichlorobenzene	12.23	146	106795	4.717	ug/L	97
66) 1,2-Dibromo-3-chloropropan	13.02	75	8586	4.869	ug/L	95
67) 1,3,5-Trichlorobenzene	13.24	180	84893	4.784	ug/L	100
68) 1,2,4-trichlorobenzene	13.87	180	59675	4.843	ug/L	98
69) Naphthalene	14.12	128	78668	4.458	ug/L	99
70) 1,2,3-Trichlorobenzene	14.36	180	56643	4.744	ug/L	99

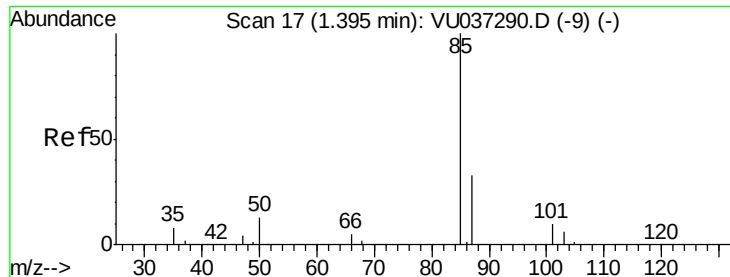
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 5.024 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU037305.D

Acq: 16 Mar 2020 20:19

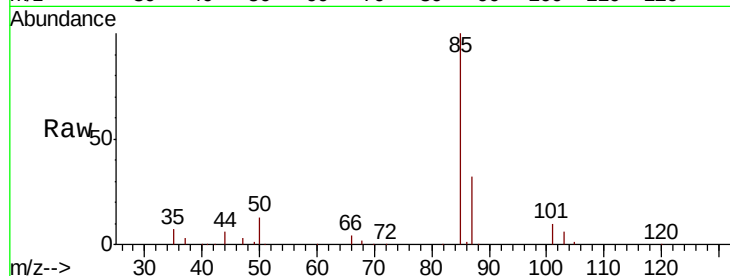
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 78484

Ion Ratio Lower Upper

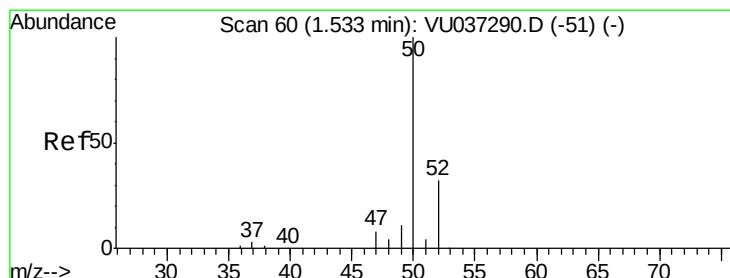
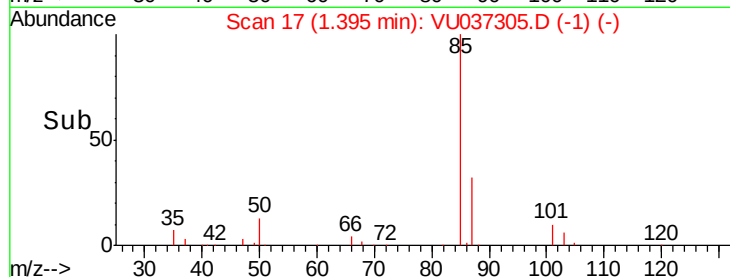
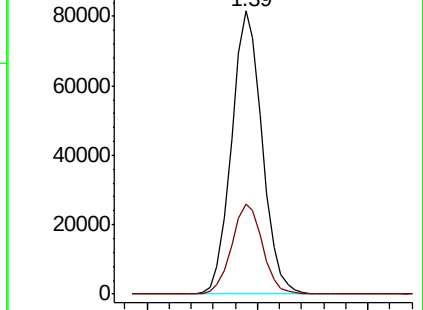
85 100

87 32.0 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VU037290.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU037290.D (-9) (-)



#3

Chloromethane

Concen: 3.874 ug/L

RT: 1.53 min Scan# 60

Delta R.T. 0.00 min

Lab File: VU037305.D

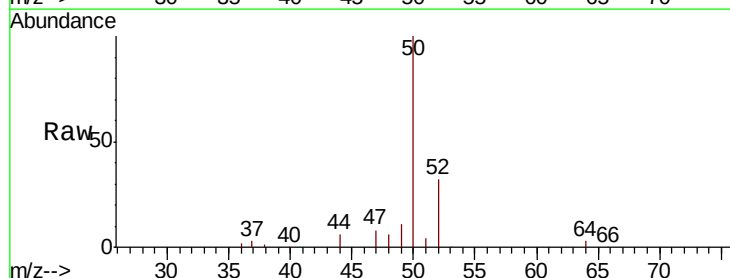
Acq: 16 Mar 2020 20:19

Tgt Ion: 50 Resp: 59405

Ion Ratio Lower Upper

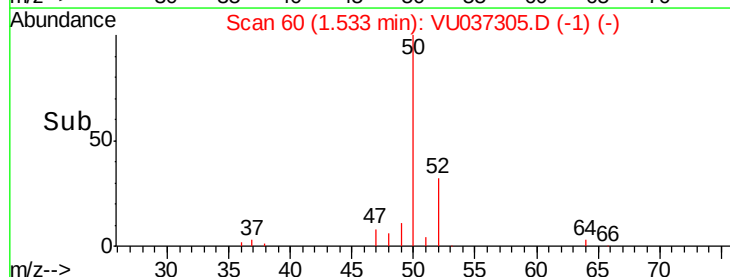
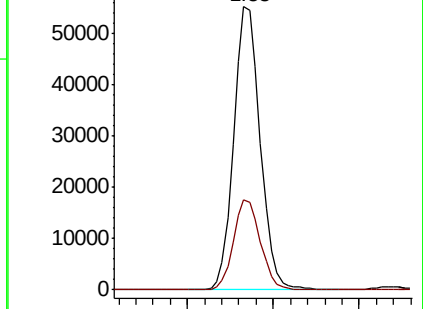
50 100

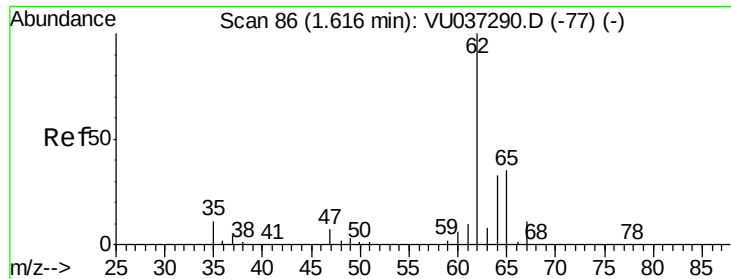
52 31.7 22.3 41.5



Abundance Ion 50.05 (49.75 to 50.75): VU037290.D (-51) (-)

Ion 52.05 (51.75 to 52.75): VU037290.D (-51) (-)





#5

Vinyl chloride

Concen: 4.847 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU037305.D

Acq: 16 Mar 2020 20:19

Instrument :

MSVOA_U

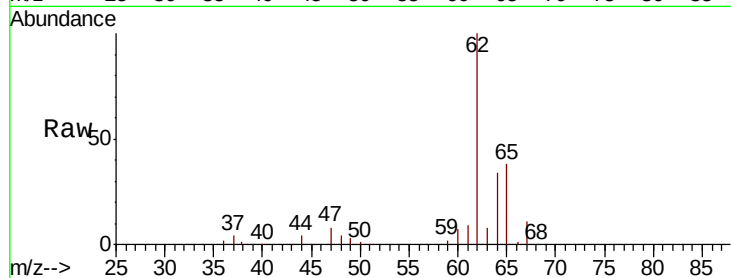
ClientSampleId :

Tot Ion: 62 Resp: 66542

Ion Ratio Lower Upper

62 100

64 33.5 22.8 42.4



Abundance Ion 62.00 (61.70 to 62.70): VU037305.D (-1) (-)

Ion 64.10 (63.80 to 64.80): VU037305.D (-1) (-)

1.62

60000

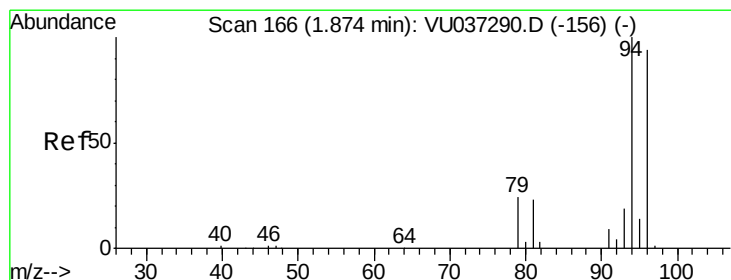
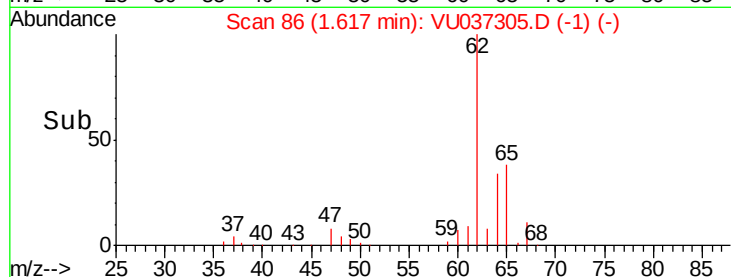
40000

20000

0

Time-->

1.55 1.60 1.65 1.70



#6

Bromomethane

Concen: 2.383 ug/L

RT: 1.87 min Scan# 165

Delta R.T. -0.00 min

Lab File: VU037305.D

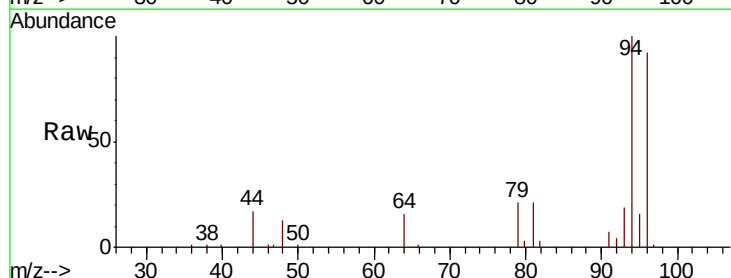
Acq: 16 Mar 2020 20:19

Tgt Ion: 94 Resp: 16634

Ion Ratio Lower Upper

94 100

96 91.9 65.9 122.3



Abundance Ion 94.00 (93.70 to 94.70): VU037305.D (-73) (-)

Ion 96.00 (95.70 to 96.70): VU037305.D (-73) (-)

1.87

15000

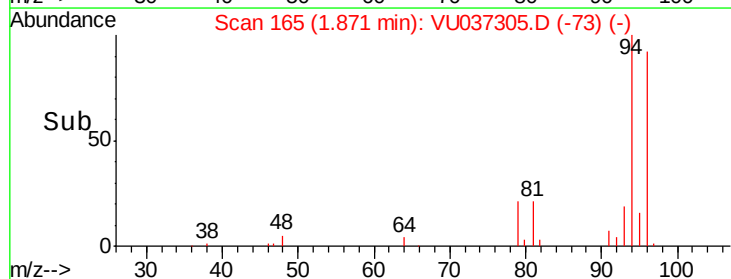
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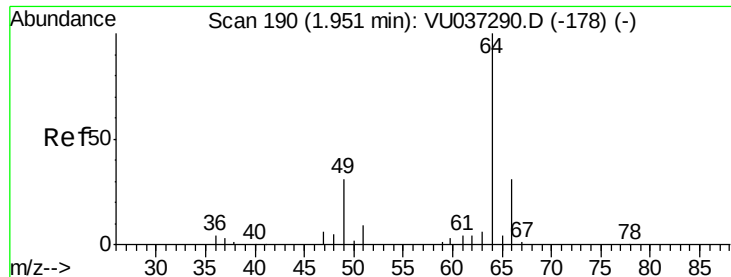
5000

0

Time-->

1.85 1.90

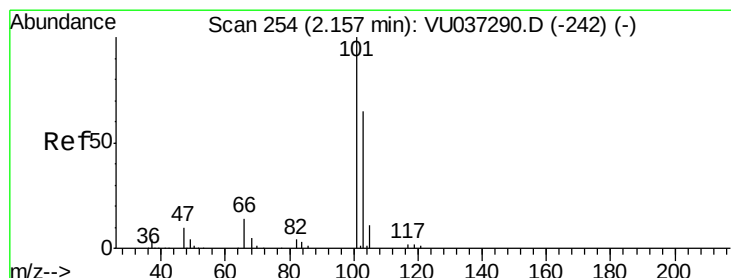
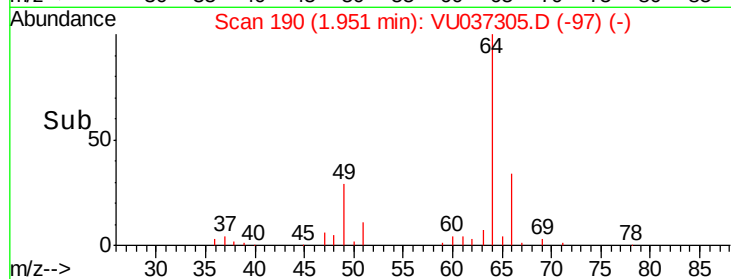
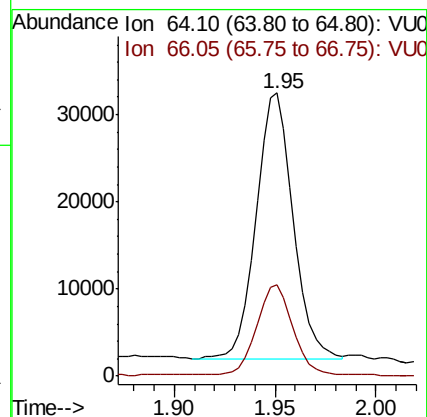
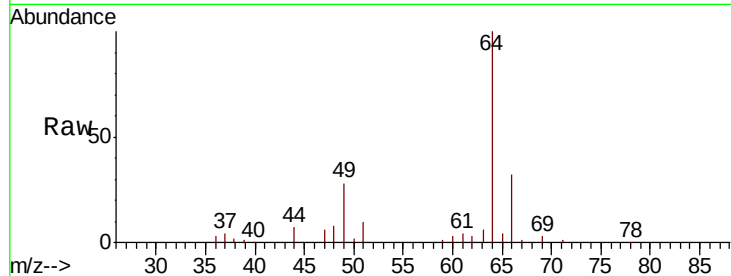




#8
Chloroethane
Concen: 4.940 ug/L
RT: 1.95 min Scan# 190
Delta R.T. 0.00 min
Lab File: VU037305.D
Acq: 16 Mar 2020 20:19

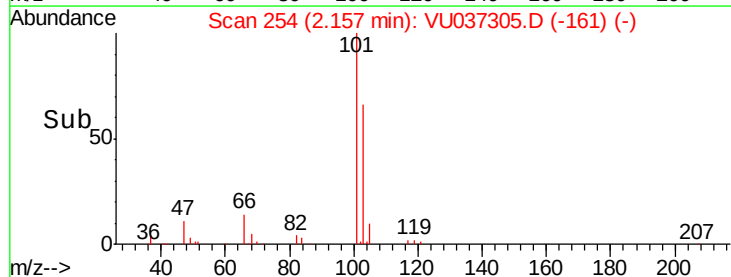
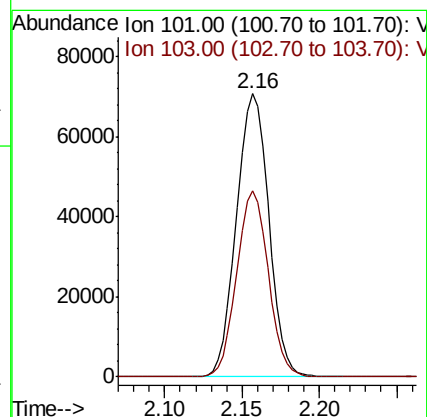
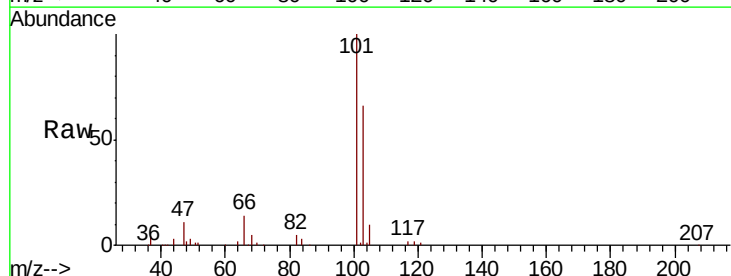
Instrument :
MSVOA_U
ClientSampleId :

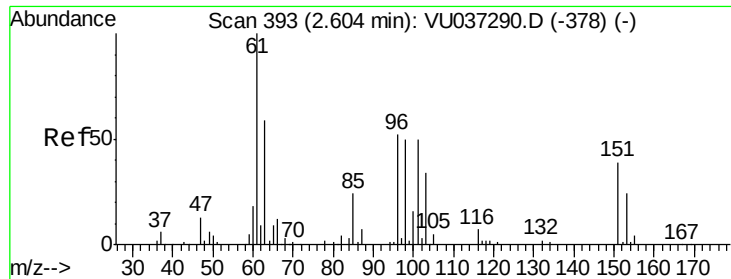
Tot Ion: 64 Resp: 39107
Ion Ratio Lower Upper
64 100
66 32.3 21.7 40.3



#9
Trichlorofluoromethane
Concen: 4.962 ug/L
RT: 2.16 min Scan# 254
Delta R.T. 0.00 min
Lab File: VU037305.D
Acq: 16 Mar 2020 20:19

Tgt Ion: 101 Resp: 102739
Ion Ratio Lower Upper
101 100
103 64.3 52.9 79.3





#10

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

Concen: 4.991 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037305.D

Acq: 16 Mar 2020 20:19

Instrument :

MSVOA_U

ClientSampled :

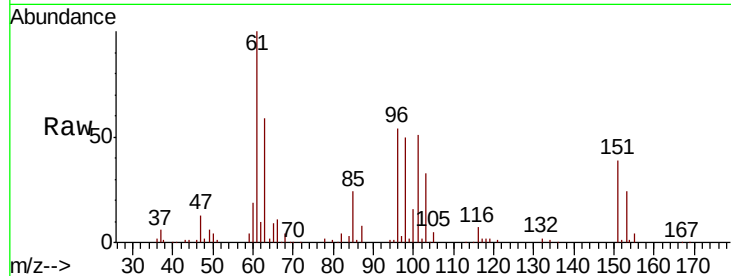
Tot Ion:101 Resp: 47841

Ion Ratio Lower Upper

101 100

85 47.8 39.1 58.7

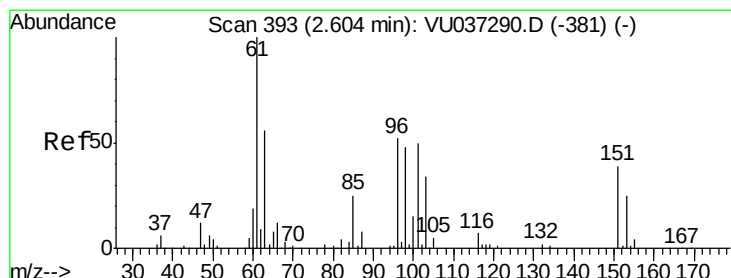
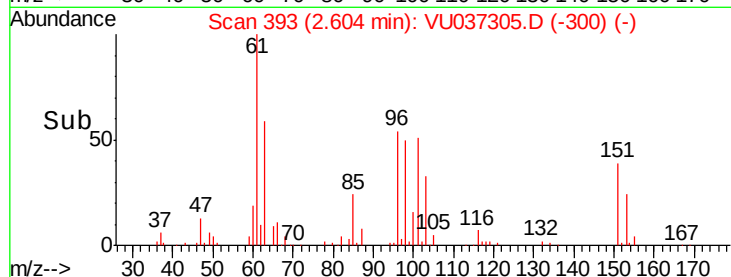
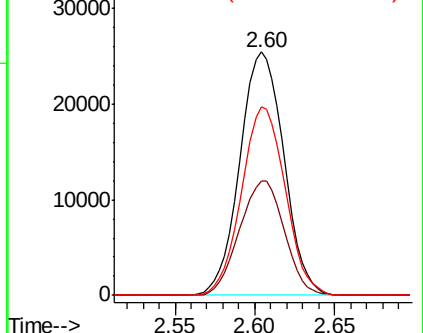
151 77.0 62.5 93.7



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: 5.007 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037305.D

Acq: 16 Mar 2020 20:19

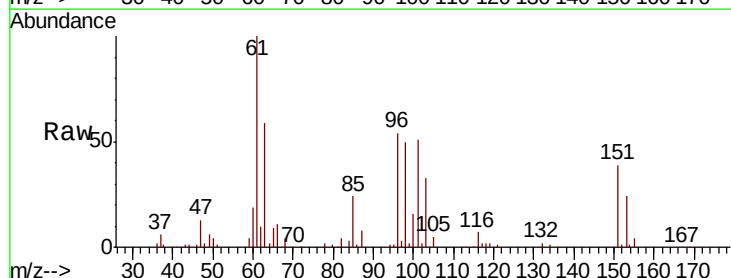
Tgt Ion: 96 Resp: 43326

Ion Ratio Lower Upper

96 100

61 186.6 134.3 249.5

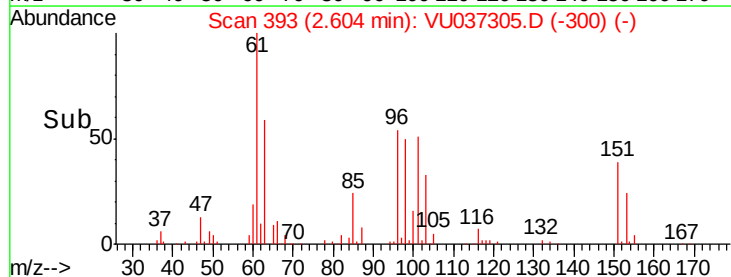
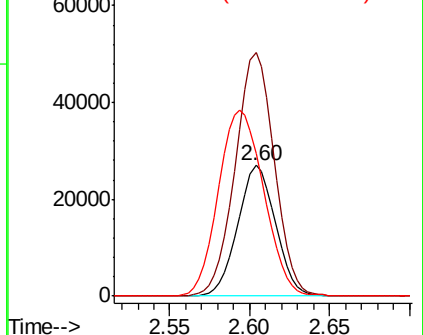
63 109.6 80.3 149.1

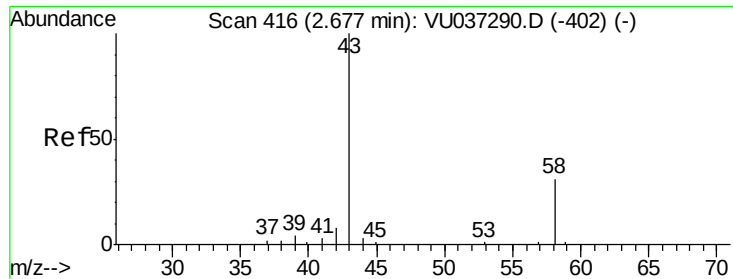


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 45.412 ug/L

RT: 2.66 min Scan# 410

Delta R.T. -0.02 min

Lab File: VU037305.D

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MSVOA_U

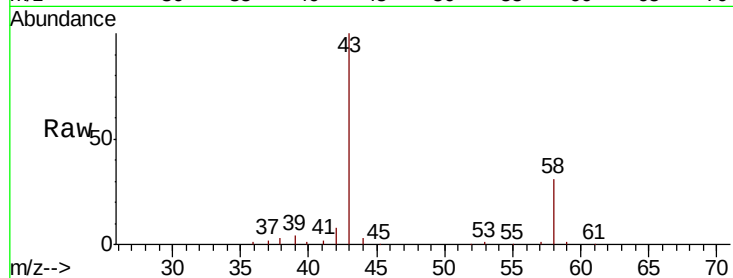
ClientSampleId :

Tot Ion: 43 Resp: 81597

Ion Ratio Lower Upper

43 100

58 30.6 0.0 58.0



Abundance Ion 43.05 (42.75 to 43.75): VU037290.D (-402) (-)

Ion 58.05 (57.75 to 58.75): VU037290.D (-402) (-)

2.66

50000

40000

30000

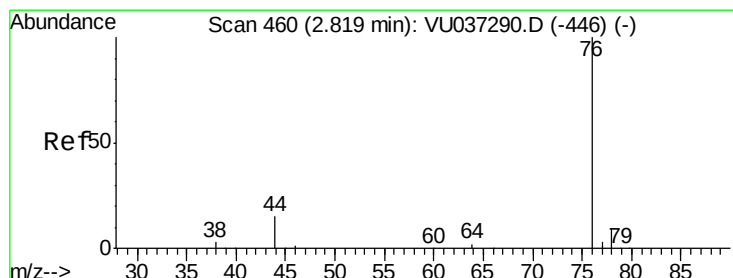
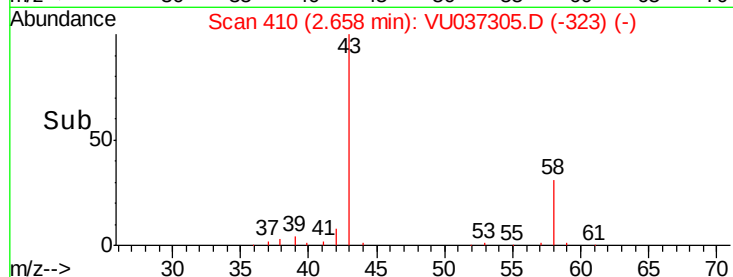
20000

10000

0

2.60 2.65 2.70 2.75

Time-->



#14

Carbon disulfide

Concen: 4.845 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU037305.D

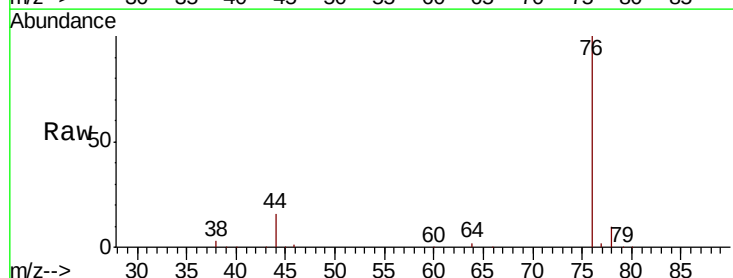
Acq: 16 Mar 2020 20:19

Tgt Ion: 76 Resp: 135127

Ion Ratio Lower Upper

76 100

78 9.6 7.1 10.7



Abundance Ion 76.05 (75.75 to 76.75): VU037290.D (-446) (-)

Ion 78.00 (77.70 to 78.70): VU037290.D (-446) (-)

2.82

80000

60000

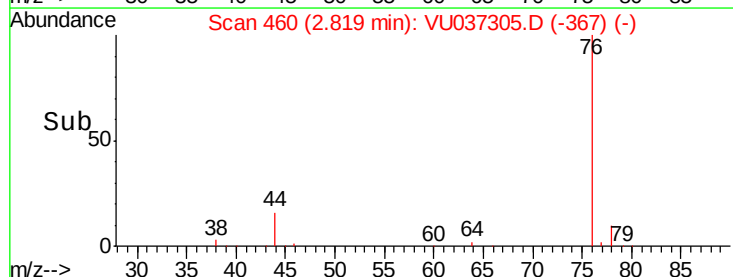
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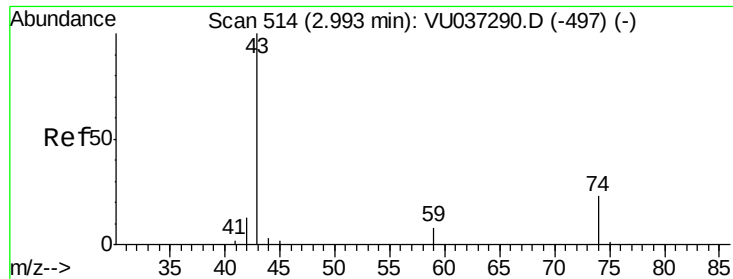
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0

2.80 2.85 2.90

Time-->

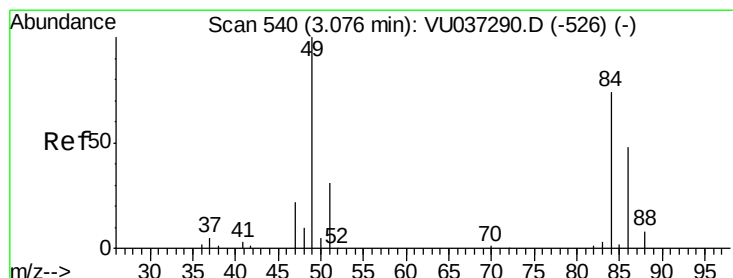
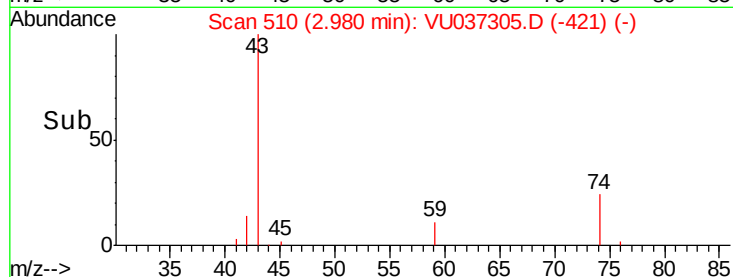
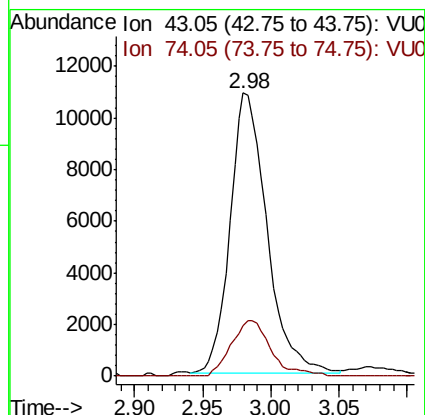
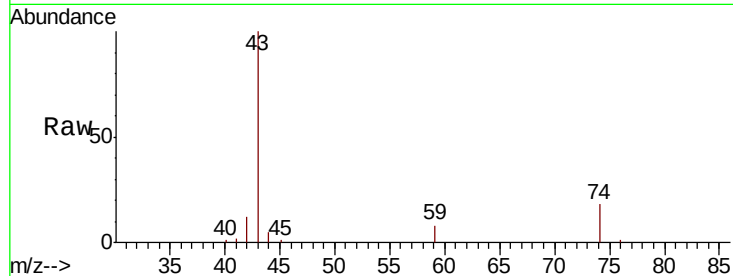




#15
Methyl Acetate
Concen: 4.911 ug/L
RT: 2.98 min Scan# 510
Delta R.T. -0.01 min
Lab File: VU037305.D
Acq: 16 Mar 2020 20:19

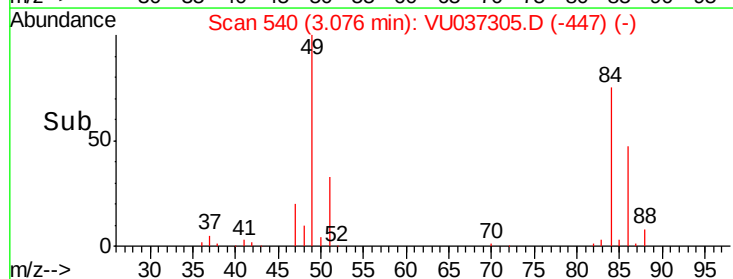
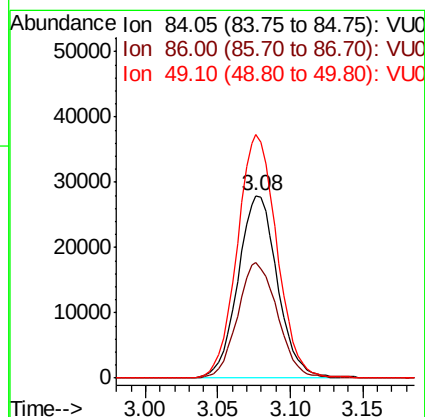
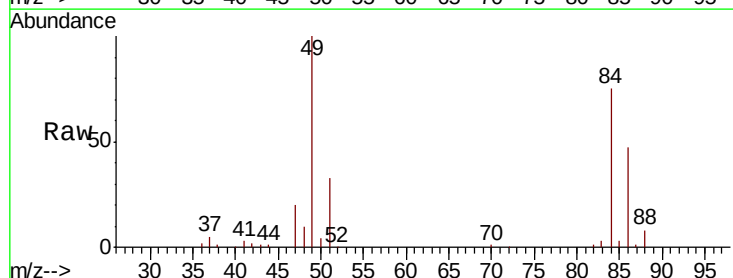
Instrument :
MSVOA_U
ClientSampleId :

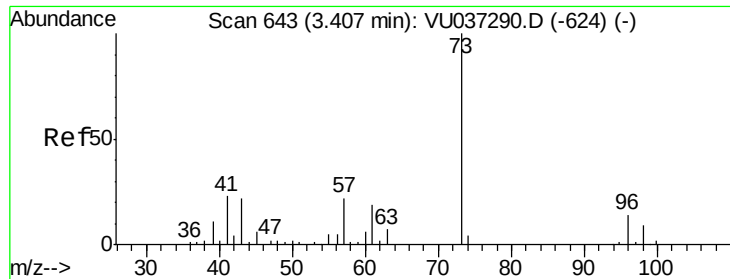
Tot Ion: 43 Resp: 20291
Ion Ratio Lower Upper
43 100
74 21.4 17.0 25.4



#16
Methylene chloride
Concen: 5.083 ug/L
RT: 3.08 min Scan# 540
Delta R.T. 0.00 min
Lab File: VU037305.D
Acq: 16 Mar 2020 20:19

Tgt Ion: 84 Resp: 52928
Ion Ratio Lower Upper
84 100
86 63.2 45.2 84.0
49 133.6 94.4 175.4

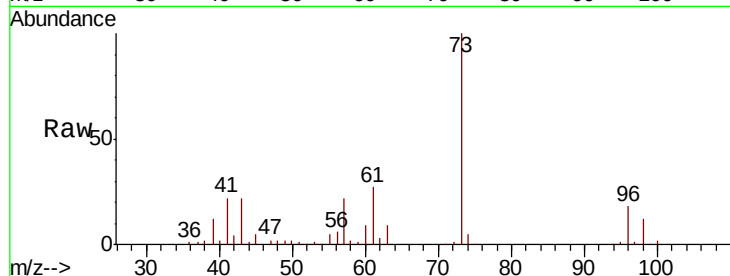




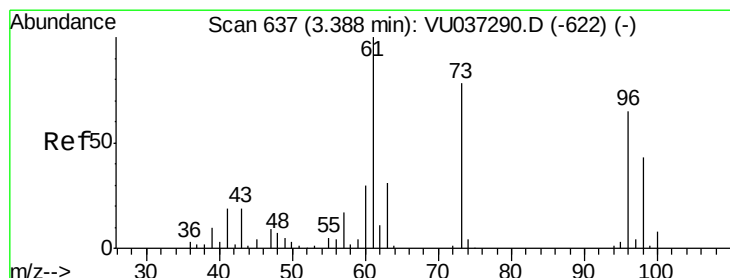
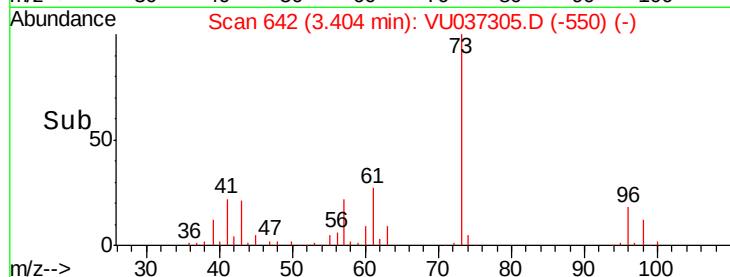
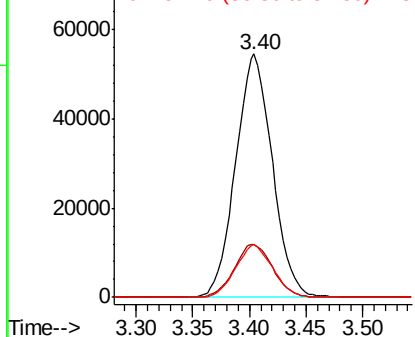
#17
Methyl tert-butyl Ether
Concen: 4.955 ug/L
RT: 3.40 min Scan# 642
Delta R.T. -0.00 min
Lab File: VU037305.D
Acq: 16 Mar 2020 20:19

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 73 Resp: 123239
Ion Ratio Lower Upper
73 100
43 22.8 18.6 28.0
57 21.8 17.1 25.7

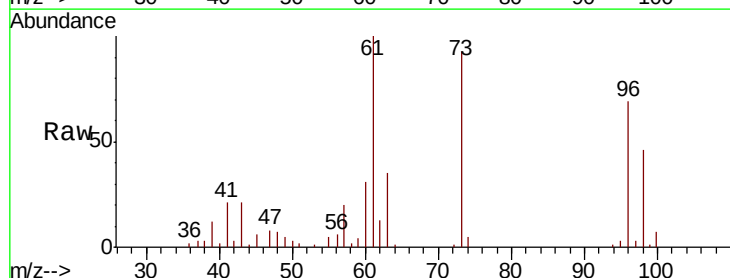


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

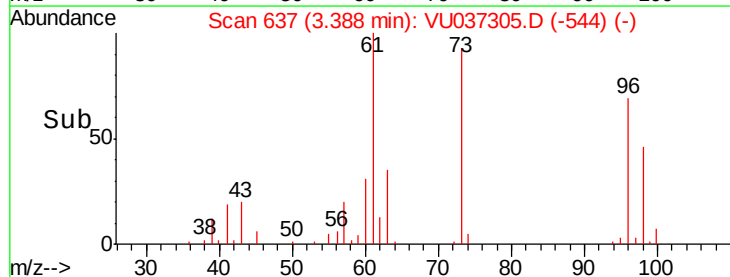
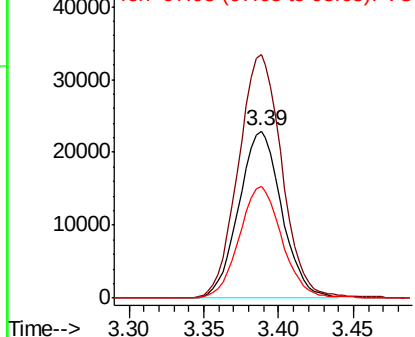


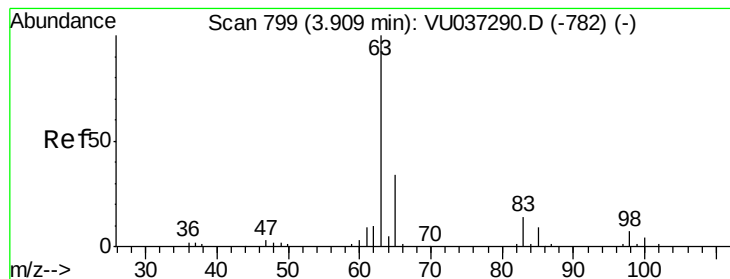
#18
trans-1,2-Dichloroethene
Concen: 4.918 ug/L
RT: 3.39 min Scan# 637
Delta R.T. 0.00 min
Lab File: VU037305.D
Acq: 16 Mar 2020 20:19

Tgt Ion: 96 Resp: 45857
Ion Ratio Lower Upper
96 100
61 145.6 107.5 199.7
98 66.5 45.9 85.3



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: 4.915 ug/L

RT: 3.91 min Scan# 800

Delta R.T. 0.00 min

Lab File: VU037305.D

Acq: 16 Mar 2020 20:19

Instrument :

MSVOA_U

ClientSampled :

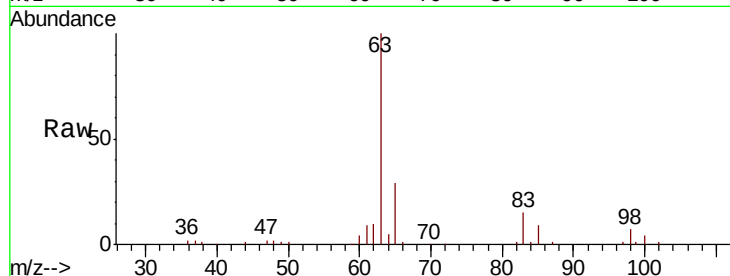
Tot Ion: 63 Resp: 92325

Ion Ratio Lower Upper

63 100

65 29.5 24.1 44.7

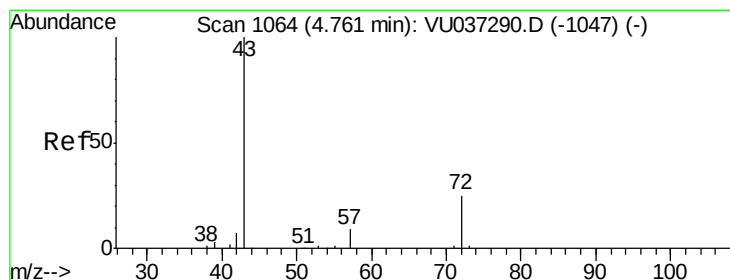
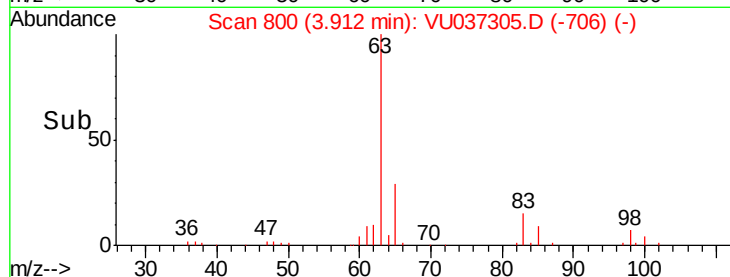
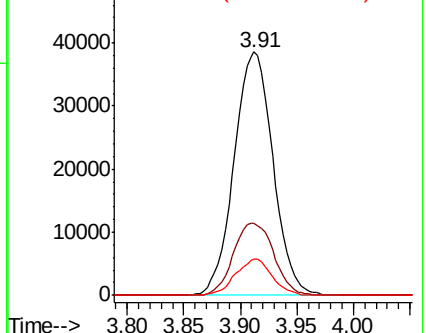
83 14.9 10.1 18.9



Abundance Ion 63.10 (62.80 to 63.80): VU037290.D (-782) (-)

Ion 65.10 (64.80 to 65.80): VU037290.D (-782) (-)

Ion 83.05 (82.75 to 83.75): VU037290.D (-782) (-)



#21

2-Butanone

Concen: 48.244 ug/L

RT: 4.75 min Scan# 1061

Delta R.T. -0.01 min

Lab File: VU037305.D

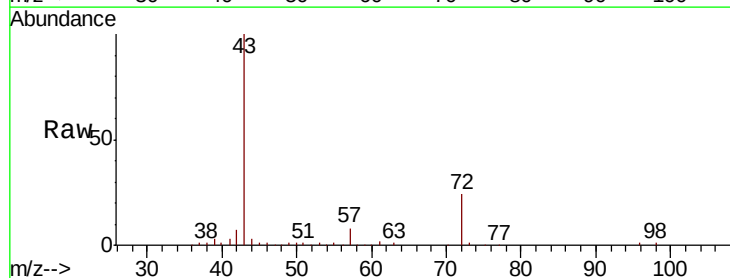
Acq: 16 Mar 2020 20:19

Tgt Ion: 43 Resp: 138431

Ion Ratio Lower Upper

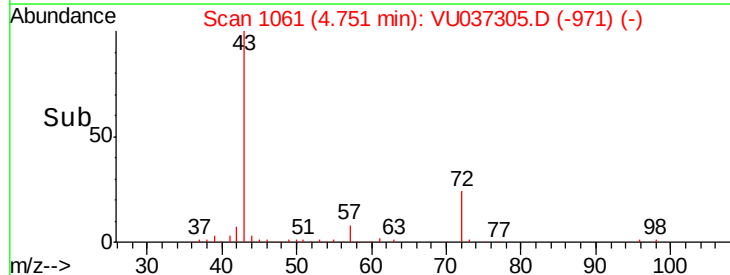
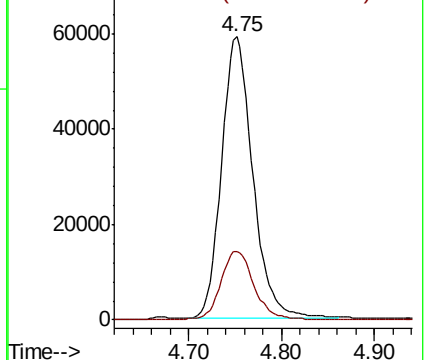
43 100

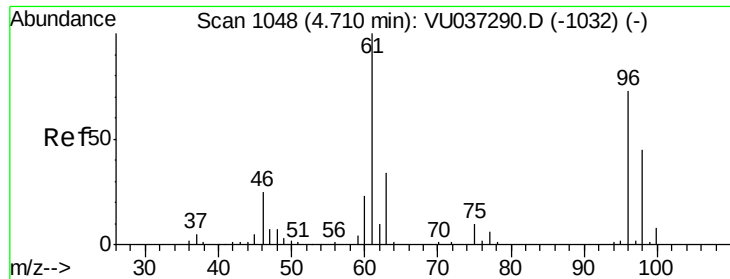
72 26.0 12.5 37.5



Abundance Ion 43.05 (42.75 to 43.75): VU037290.D (-1047) (-)

Ion 72.10 (71.80 to 72.80): VU037290.D (-1047) (-)





#22

cis-1,2-Dichloroethene

Concen: 5.020 ug/L

RT: 4.71 min Scan# 1048

Delta R.T. 0.00 min

Lab File: VU037305.D

Acq: 16 Mar 2020 20:19

Instrument :

MSVOA_U

ClientSampleId :

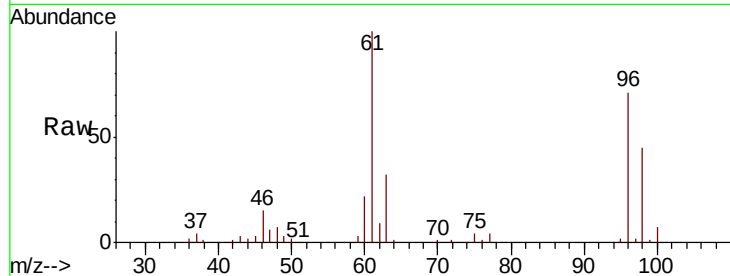
Tot Ion: 96 Resp: 51937

Ion Ratio Lower Upper

96 100

61 140.9 95.8 178.0

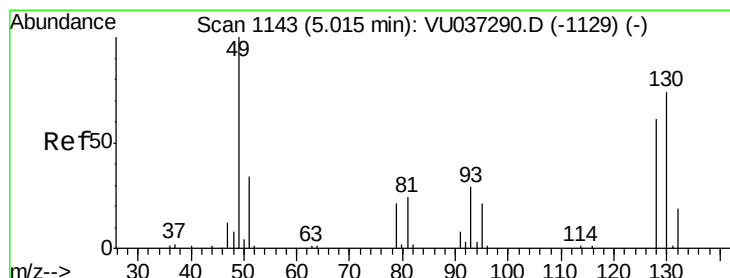
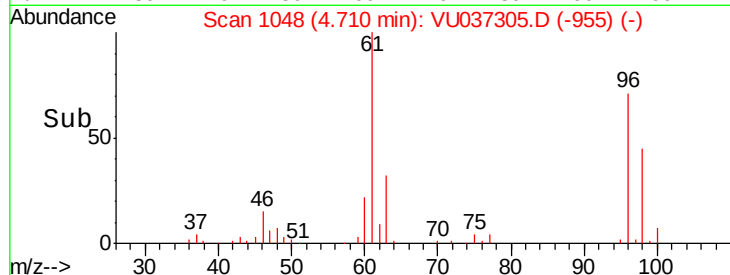
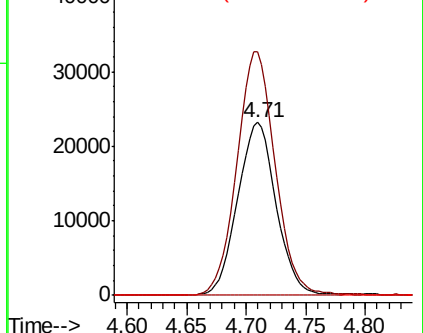
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU037305.D (-955) (-)

Ion 61.05 (60.75 to 61.75): VU037305.D (-955) (-)

Ion 68.15 (67.85 to 68.85): VU037305.D (-955) (-)



#23

Bromochloromethane

Concen: 5.072 ug/L

RT: 5.02 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VU037305.D

Acq: 16 Mar 2020 20:19

Tgt Ion: 128 Resp: 23773

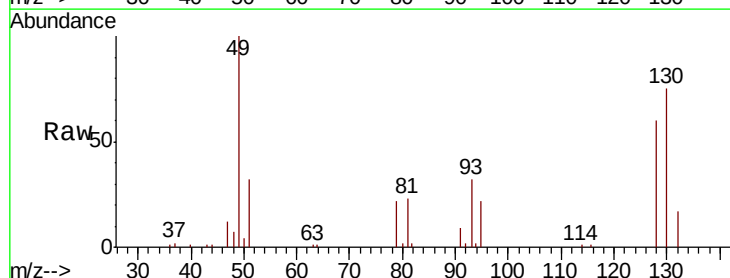
Ion Ratio Lower Upper

128 100

49 168.0 116.7 216.7

130 125.7 85.3 158.5

51 53.1 44.6 66.8

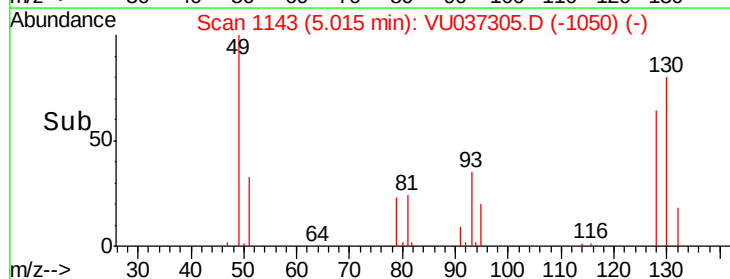
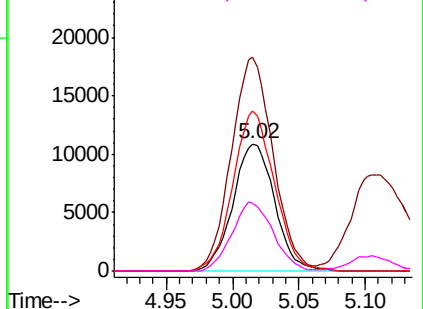


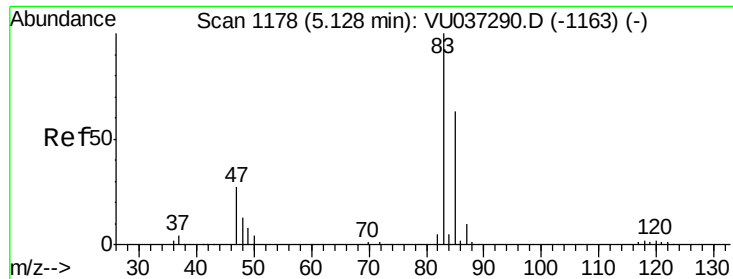
Abundance Ion 127.90 (127.60 to 128.60): VU037305.D (-1050) (-)

Ion 49.10 (48.80 to 49.80): VU037305.D (-1050) (-)

Ion 129.95 (129.65 to 130.65): VU037305.D (-1050) (-)

Ion 51.05 (50.75 to 51.75): VU037305.D (-1050) (-)

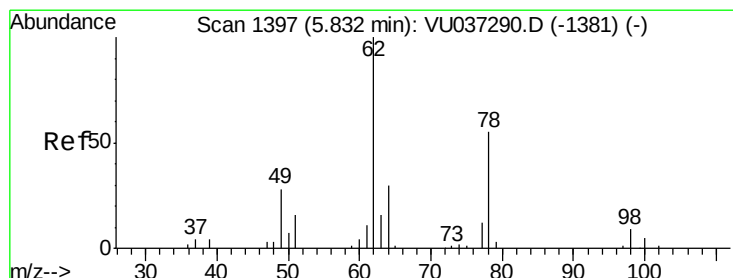
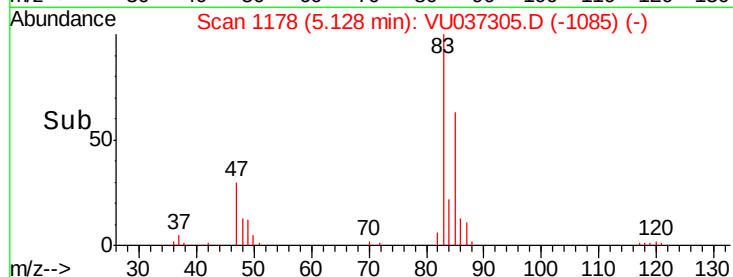
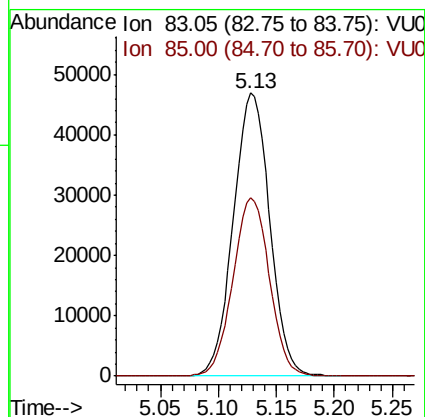
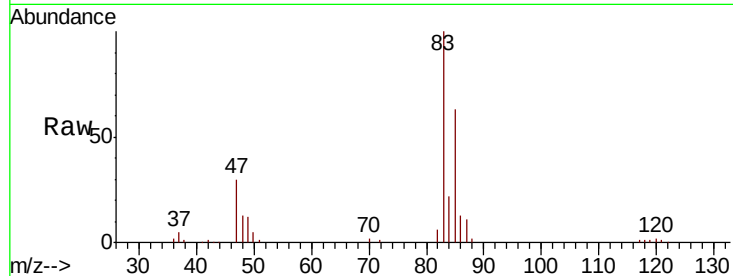




#25
Chloroform
Concen: 5.005 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VU037305.D
Acq: 16 Mar 2020 20:19

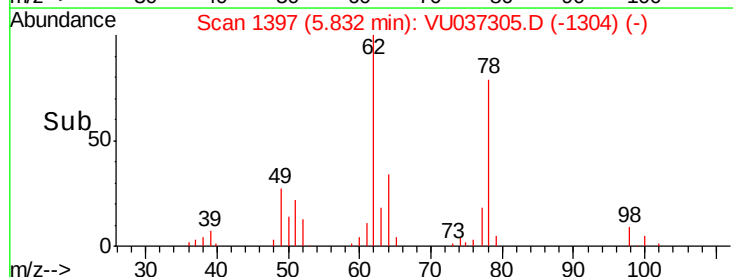
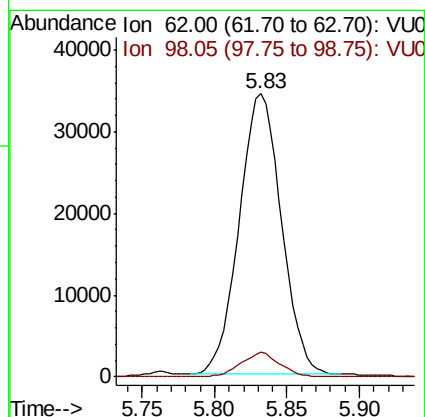
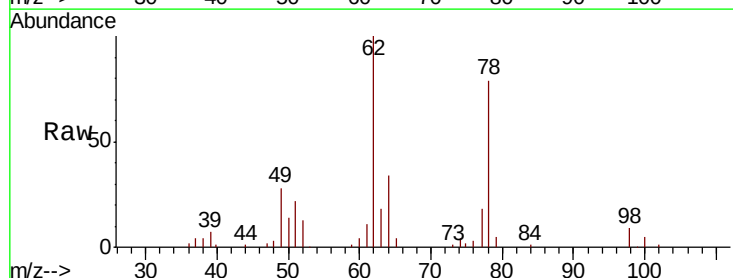
Instrument :
MSVOA_U
ClientSampled :

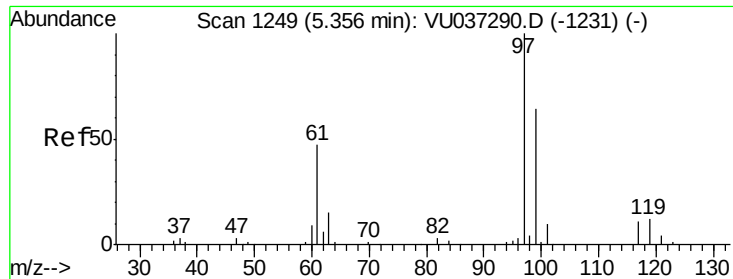
Tot Ion: 83 Resp: 102350
Ion Ratio Lower Upper
83 100
85 63.0 44.7 82.9



#27
1,2-Dichloroethane
Concen: 4.828 ug/L
RT: 5.83 min Scan# 1397
Delta R.T. 0.00 min
Lab File: VU037305.D
Acq: 16 Mar 2020 20:19

Tgt Ion: 62 Resp: 69377
Ion Ratio Lower Upper
62 100
98 8.6 6.8 10.2

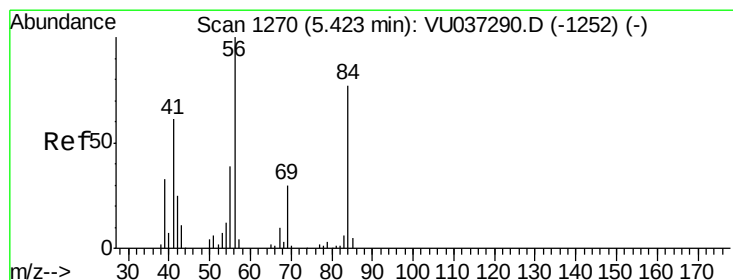
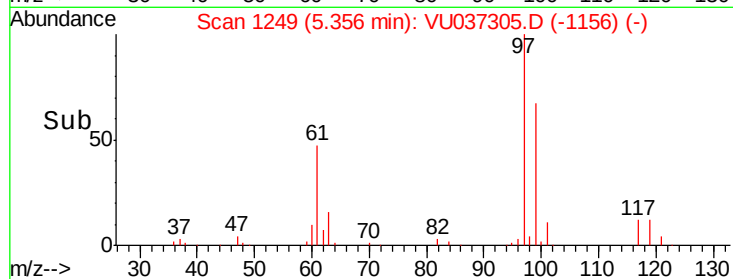
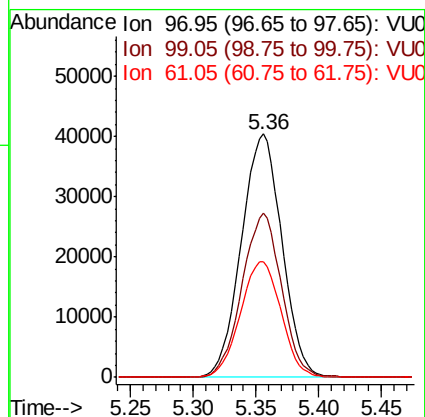
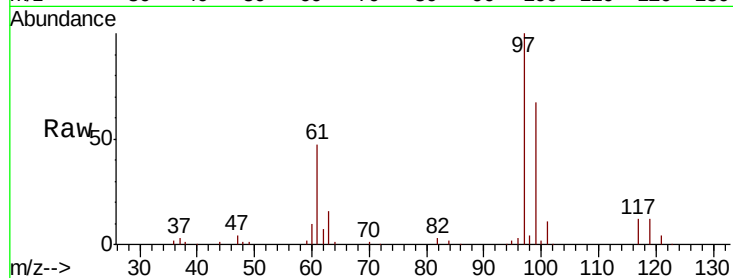




#29
 1,1,1-Trichloroethane
 Concen: 5.046 ug/L
 RT: 5.36 min Scan# 1249
 Delta R.T. 0.00 min
 Lab File: VU037305.D
 Acq: 16 Mar 2020 20:19

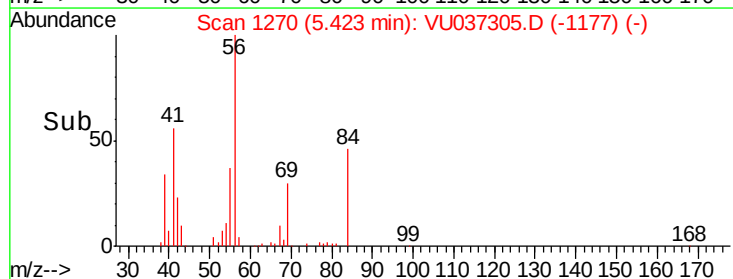
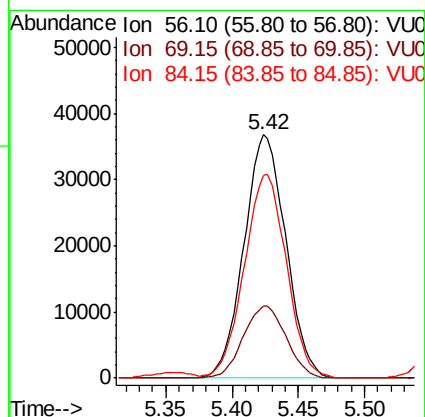
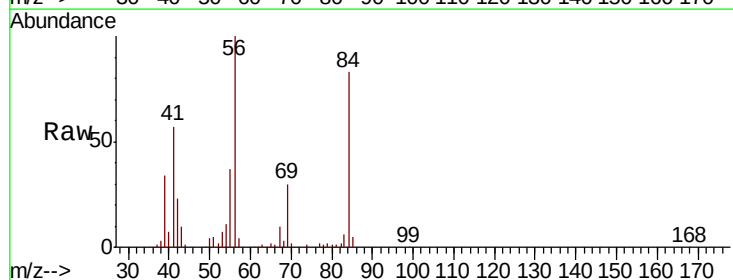
Instrument :
 MSVOA_U
 ClientSampled :

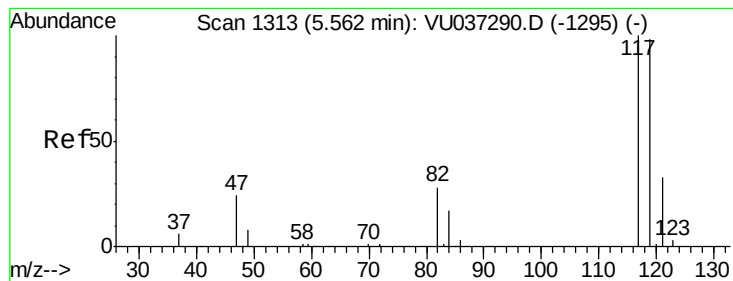
Tot Ion: 97 Resp: 90757
 Ion Ratio Lower Upper
 97 100
 99 65.8 50.6 76.0
 61 47.8 36.8 55.2



#30
 Cyclohexane
 Concen: 5.024 ug/L
 RT: 5.42 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VU037305.D
 Acq: 16 Mar 2020 20:19

Tgt Ion: 56 Resp: 80959
 Ion Ratio Lower Upper
 56 100
 69 30.3 24.3 36.5
 84 84.4 66.6 100.0





#31

Carbon tetrachloride

Concen: 5.111 ug/L

RT: 5.56 min Scan# 1313

Delta R.T. 0.00 min

Lab File: VU037305.D

Acq: 16 Mar 2020 20:19

Instrument :

MSVOA_U

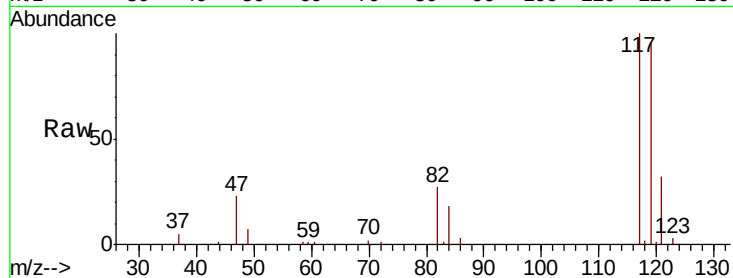
ClientSampleId :

Tot Ion:117 Resp: 80884

Ion Ratio Lower Upper

117 100

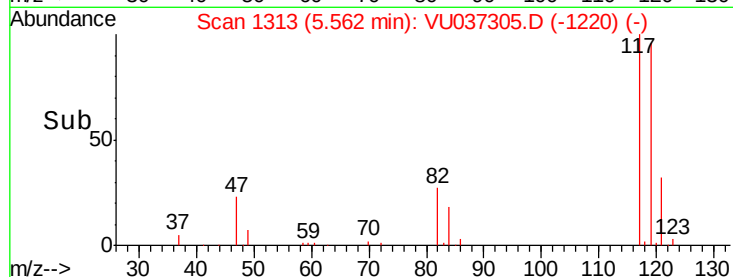
119 94.6 77.0 115.6



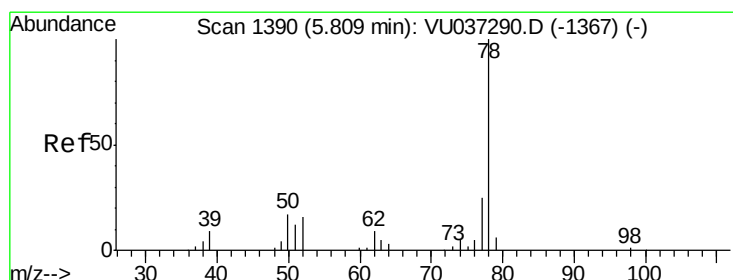
Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.56



Time--> 5.45 5.50 5.55 5.60 5.65



#33

Benzene

Concen: 5.134 ug/L

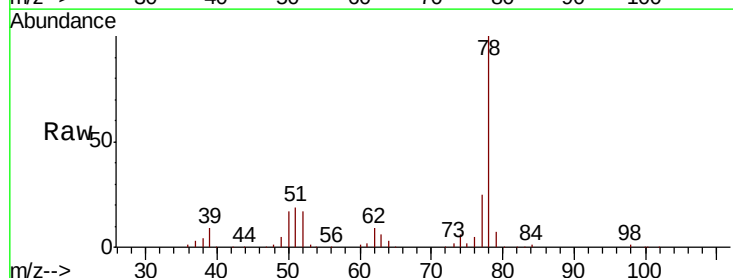
RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

Lab File: VU037305.D

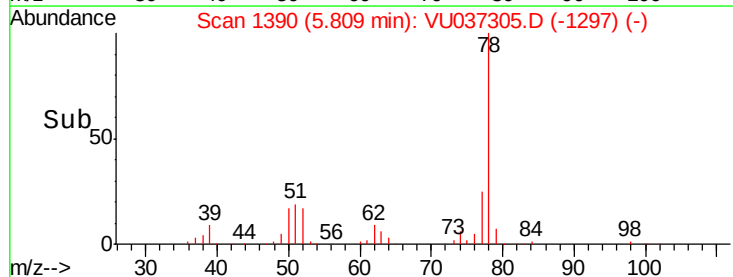
Acq: 16 Mar 2020 20:19

Tgt Ion: 78 Resp: 202748

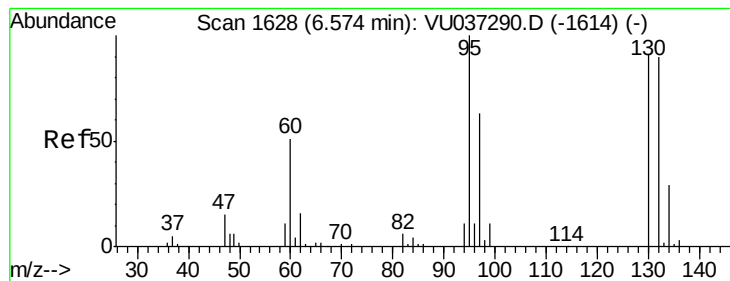


Abundance Ion 78.10 (77.80 to 78.80): VU0

5.81



Time--> 5.70 5.80 5.90



#34

Trichloroethene

Concen: 5.069 ug/L

RT: 6.57 min Scan# 1628

Delta R.T. 0.00 min

Lab File: VU037305.D

Acq: 16 Mar 2020 20:19

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 54693

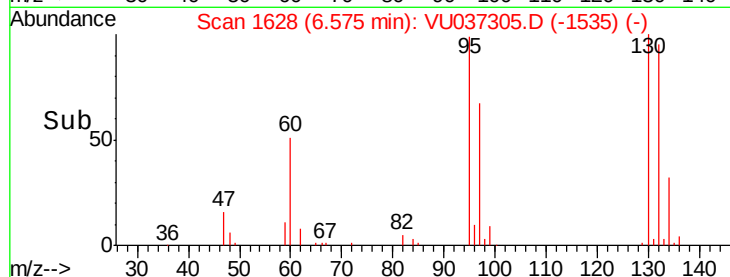
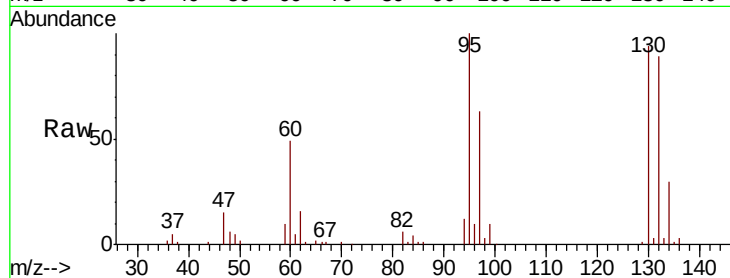
Ion Ratio Lower Upper

95 100

97 62.9 44.3 82.3

132 89.4 63.2 117.4

130 93.9 64.0 119.0

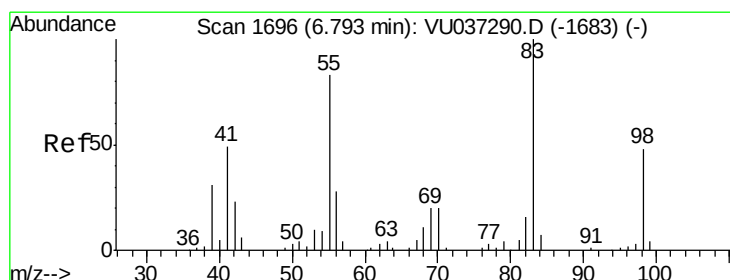
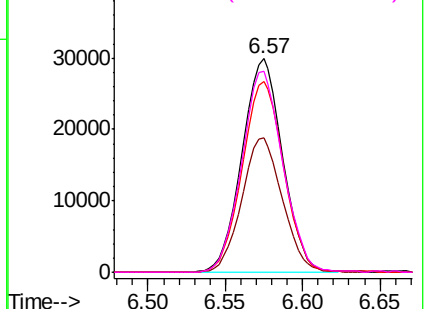


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 5.001 ug/L

RT: 6.79 min Scan# 1696

Delta R.T. 0.00 min

Lab File: VU037305.D

Acq: 16 Mar 2020 20:19

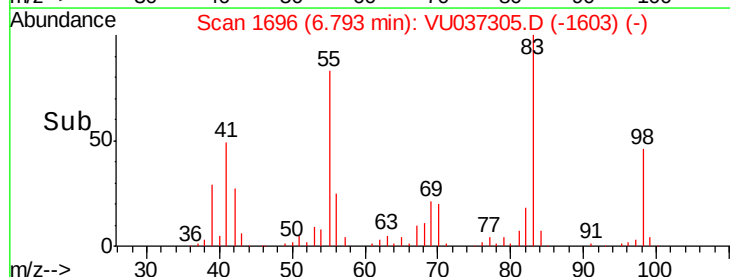
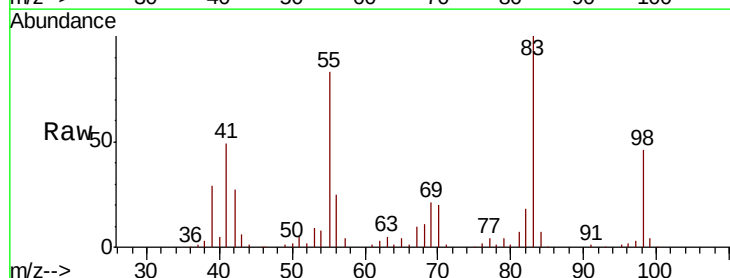
Tgt Ion: 83 Resp: 81610

Ion Ratio Lower Upper

83 100

55 81.4 67.0 100.6

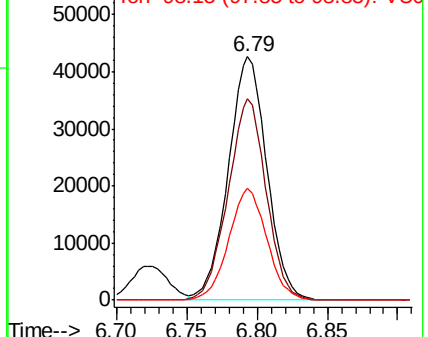
98 45.2 37.4 56.0

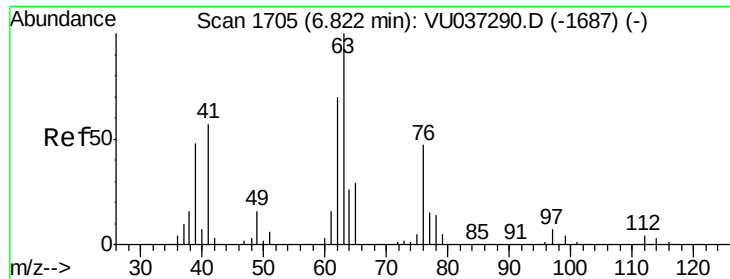


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

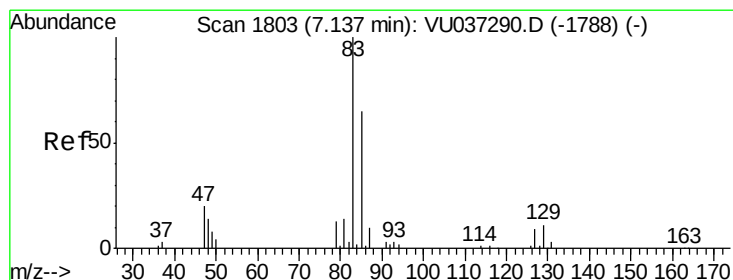
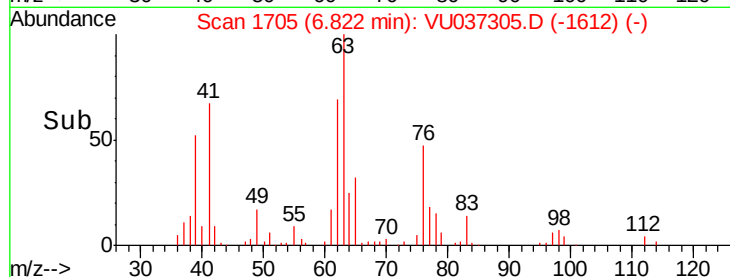
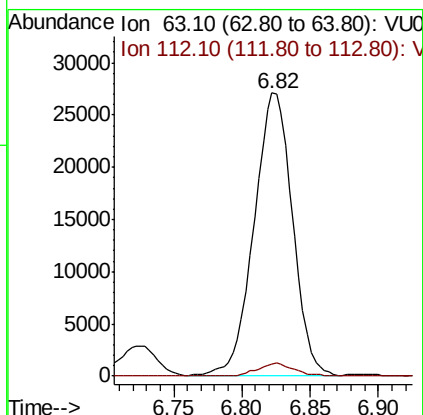
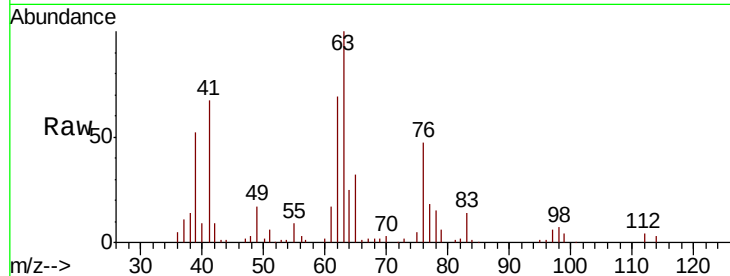




#37
 1,2-Dichloropropane
 Concen: 5.092 ug/L
 RT: 6.82 min Scan# 1705
 Delta R.T. 0.00 min
 Lab File: VU037305.D
 Acq: 16 Mar 2020 20:19

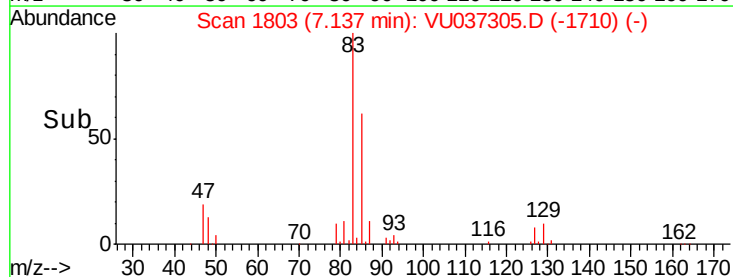
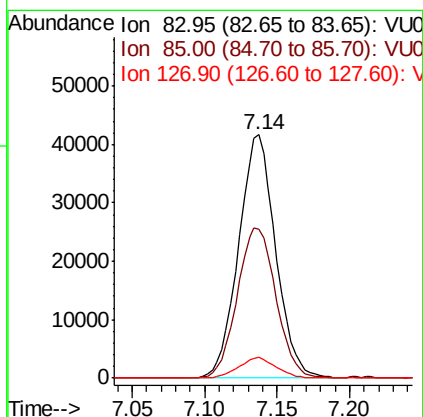
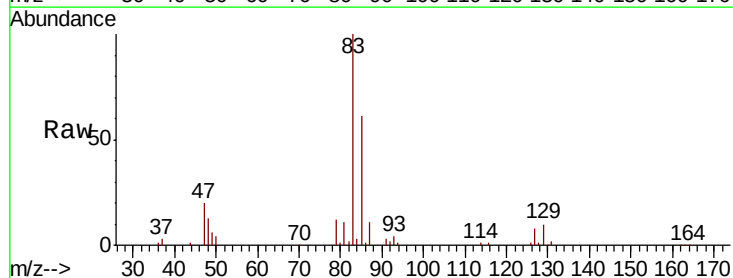
Instrument :
 MSVOA_U
 ClientSampled :

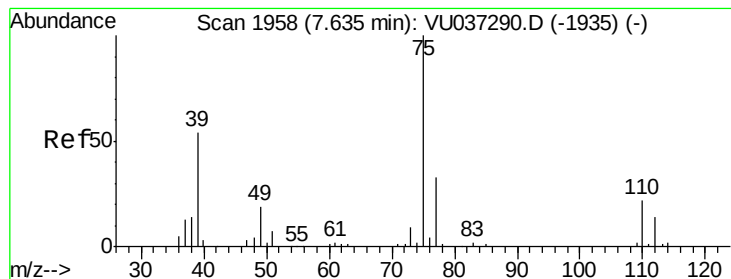
Tot Ion: 63 Resp: 53185
 Ion Ratio Lower Upper
 63 100
 112 4.1 3.1 4.7



#38
 Bromodichloromethane
 Concen: 5.024 ug/L
 RT: 7.14 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VU037305.D
 Acq: 16 Mar 2020 20:19

Tgt Ion: 83 Resp: 73855
 Ion Ratio Lower Upper
 83 100
 85 61.2 45.8 85.0
 127 8.4 7.0 10.6



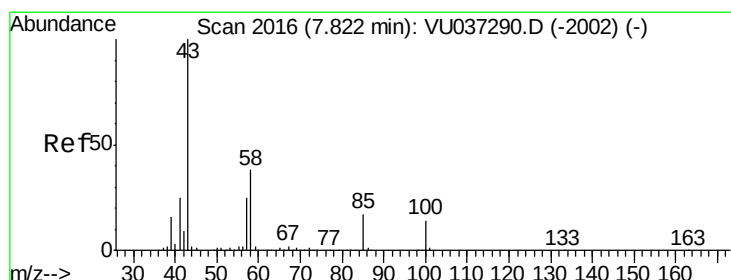
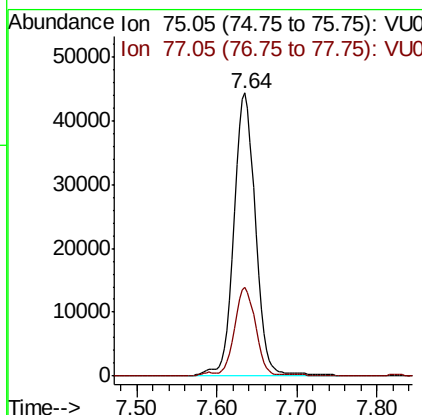
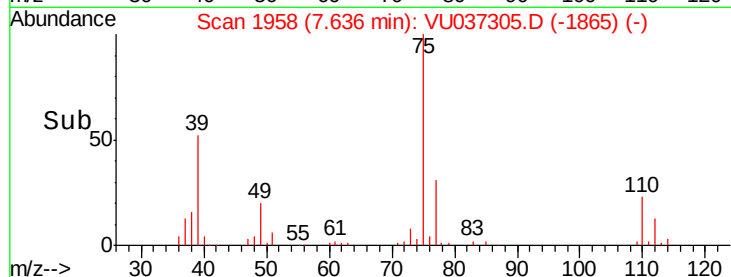
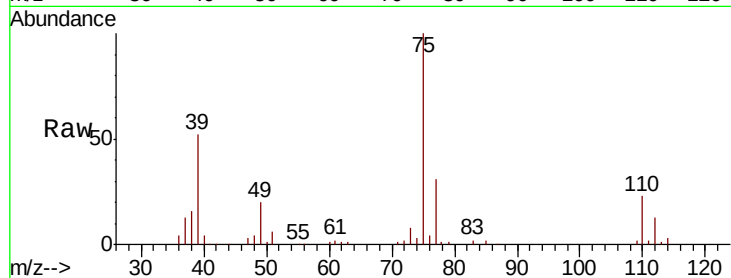


#39

cis-1,3-Dichloropropene
 Concen: 5.166 ug/L
 RT: 7.64 min Scan# 1958
 Delta R.T. 0.00 min
 Lab File: VU037305.D
 Acq: 16 Mar 2020 20:19

Instrument :
 MSVOA_U
 ClientSampled :

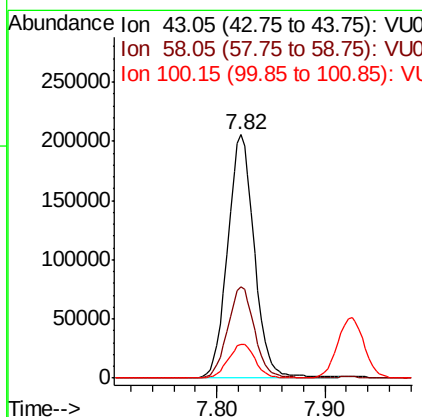
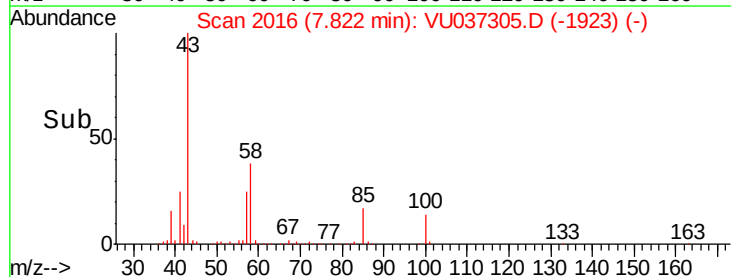
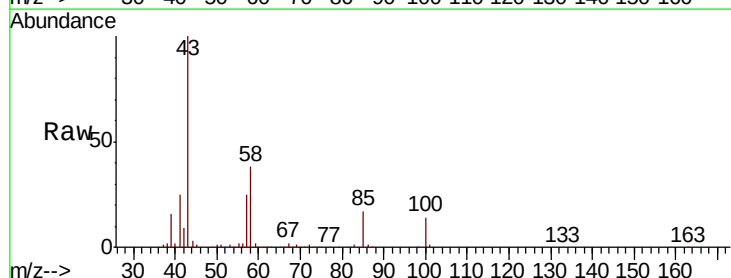
Tot Ion: 75 Resp: 81124
 Ion Ratio Lower Upper
 75 100
 77 31.3 23.0 42.8

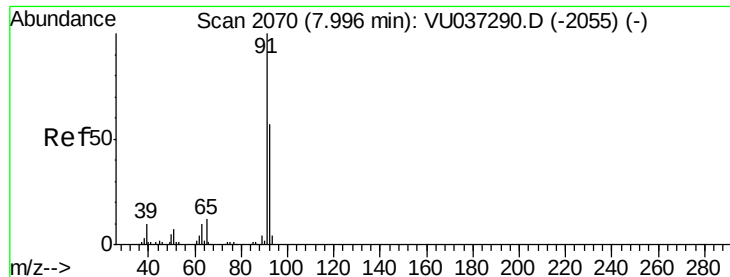


#40

4-Methyl-2-pentanone
 Concen: 50.465 ug/L
 RT: 7.82 min Scan# 2016
 Delta R.T. 0.00 min
 Lab File: VU037305.D
 Acq: 16 Mar 2020 20:19

Tgt Ion: 43 Resp: 355493
 Ion Ratio Lower Upper
 43 100
 58 37.4 29.8 44.8
 100 14.1 11.3 16.9





#42

Toluene

Concen: 5.218 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. 0.00 min

Lab File: VU037305.D

Acq: 16 Mar 2020 20:19

Instrument :

MSVOA_U

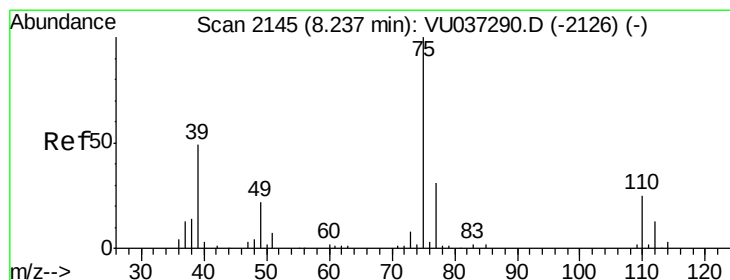
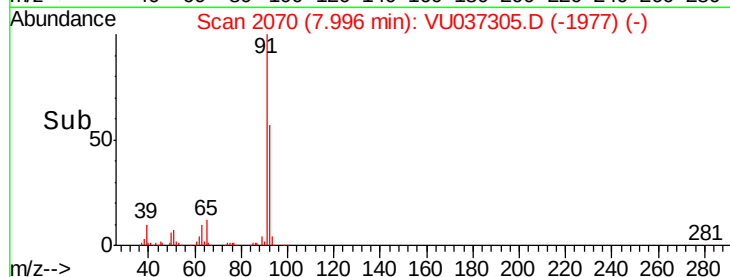
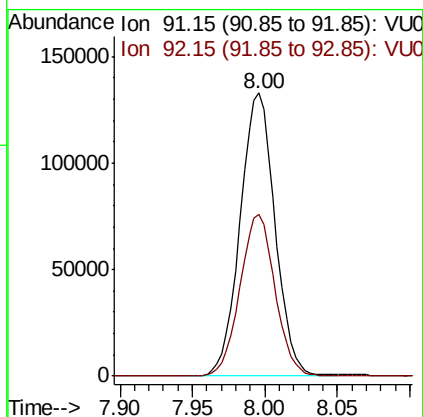
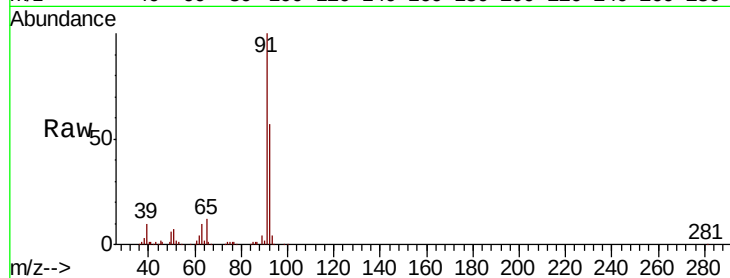
ClientSampled :

Tot Ion: 91 Resp: 222170

Ion Ratio Lower Upper

91 100

92 57.1 39.8 73.8



#44

trans-1,3-Dichloropropene

Concen: 5.091 ug/L

RT: 8.24 min Scan# 2145

Delta R.T. 0.00 min

Lab File: VU037305.D

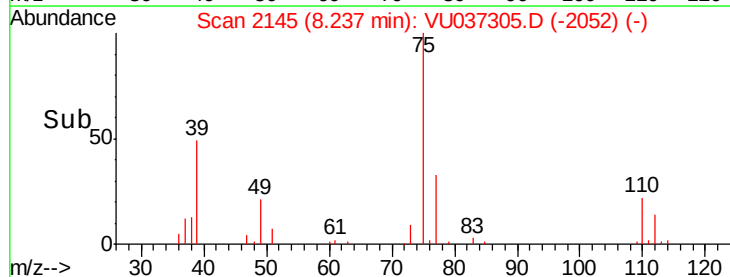
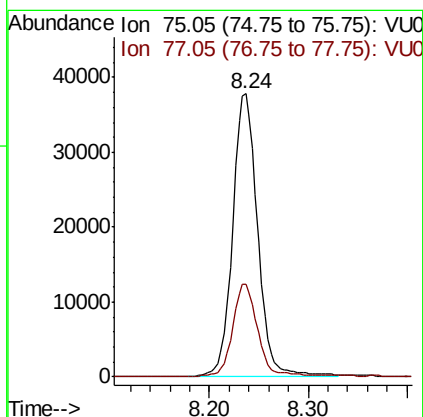
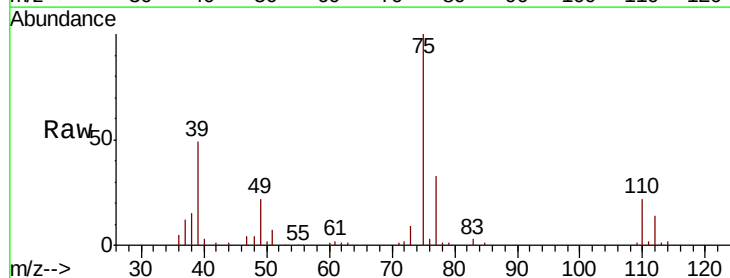
Acq: 16 Mar 2020 20:19

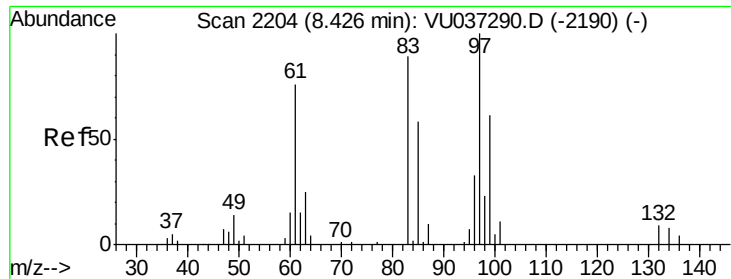
Tgt Ion: 75 Resp: 67063

Ion Ratio Lower Upper

75 100

77 32.9 21.9 40.7

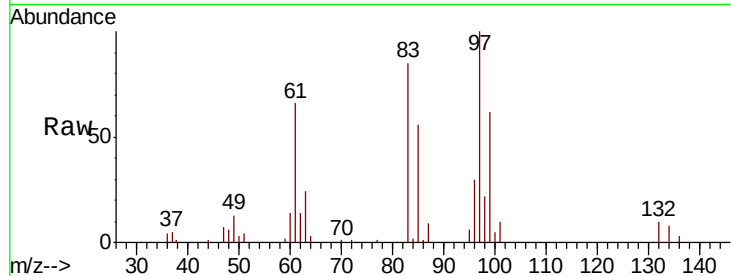




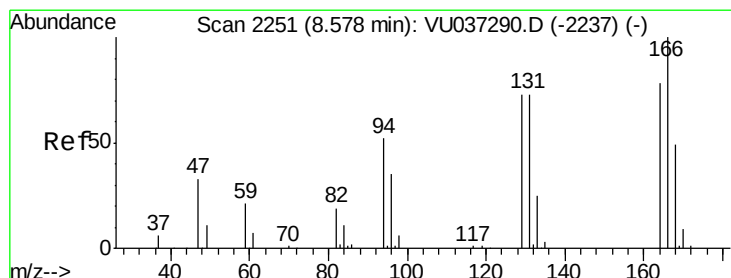
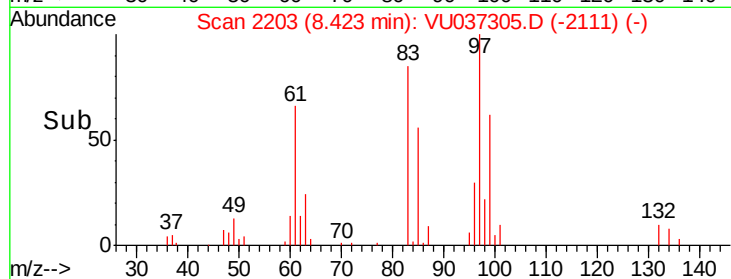
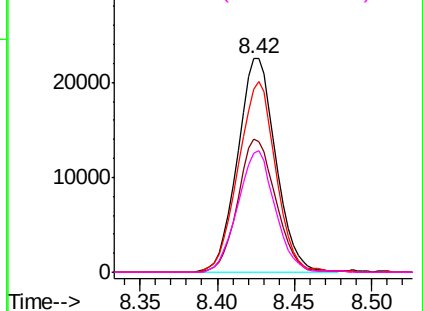
#45
 1,1,2-Trichloroethane
 Concen: 5.142 ug/L
 RT: 8.42 min Scan# 2203
 Delta R.T. -0.00 min
 Lab File: VU037305.D
 Acq: 16 Mar 2020 20:19

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	97	Resp:	38728
Ion	Ratio	Lower	Upper
97	100		
99	62.1	42.8	79.6
83	85.5	62.4	115.8
85	55.8	40.7	75.7

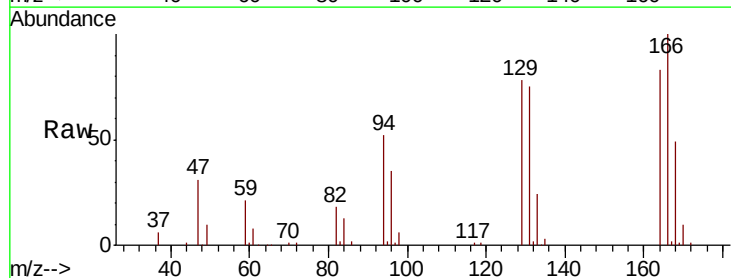


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

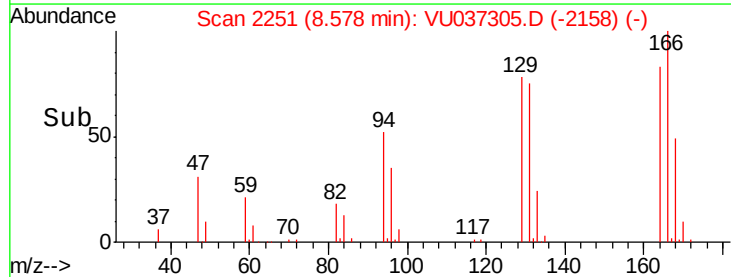
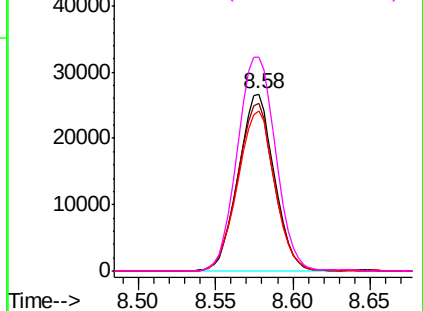


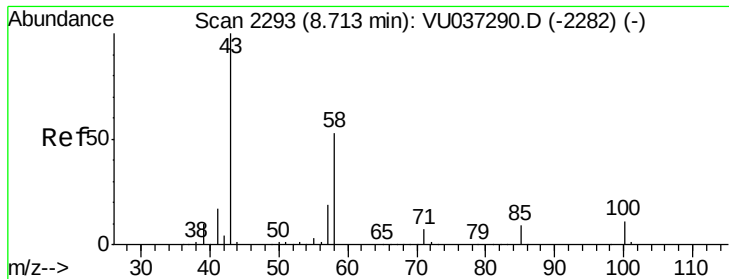
#47
 Tetrachloroethene
 Concen: 5.154 ug/L
 RT: 8.58 min Scan# 2251
 Delta R.T. 0.00 min
 Lab File: VU037305.D
 Acq: 16 Mar 2020 20:19

Tgt Ion:	164	Resp:	43196
Ion	Ratio	Lower	Upper
164	100		
129	94.5	65.8	122.2
131	90.4	65.1	120.9
166	120.6	89.7	166.5



Abundance Ion 163.90 (163.60 to 164.60): V
 Ion 128.95 (128.65 to 129.65): V
 Ion 130.95 (130.65 to 131.65): V
 Ion 165.90 (165.60 to 166.60): V

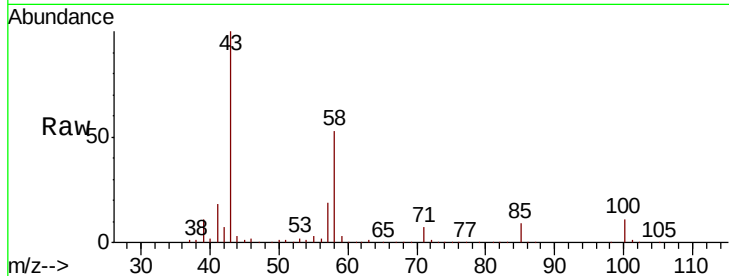




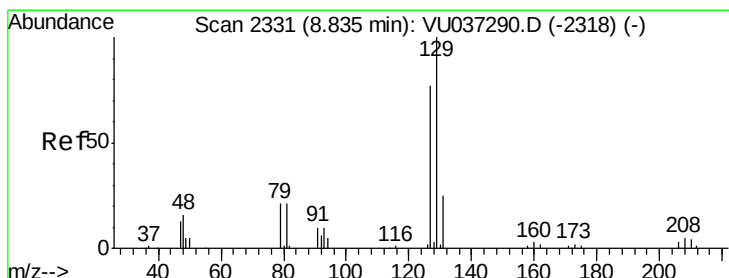
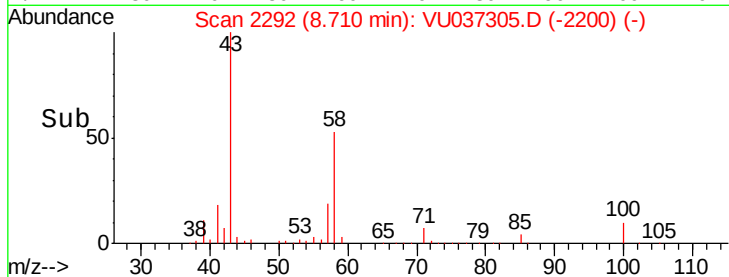
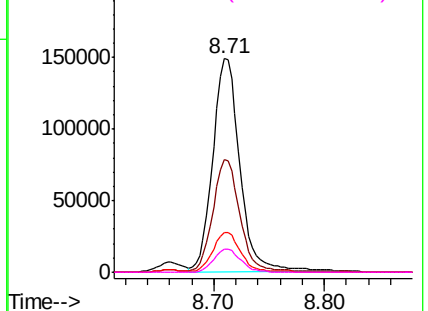
#48
2-Hexanone
Concen: 48.712 ug/L
RT: 8.71 min Scan# 2292
Delta R.T. -0.00 min
Lab File: VU037305.D
Acq: 16 Mar 2020 20:19

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 251968
Ion Ratio Lower Upper
43 100
58 52.1 41.9 62.9
57 19.1 14.7 22.1
100 11.0 8.6 13.0

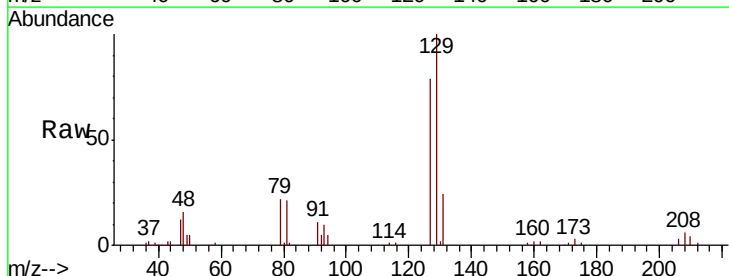


Abundance Ion 43.05 (42.75 to 43.75): VU037290.D (-2282) (-)
Ion 58.05 (57.75 to 58.75): VU037290.D (-2282) (-)
Ion 57.20 (56.90 to 57.90): VU037290.D (-2282) (-)
Ion 100.15 (99.85 to 100.85): VU037290.D (-2282) (-)

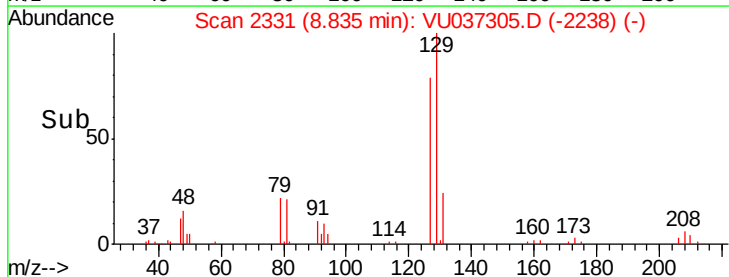
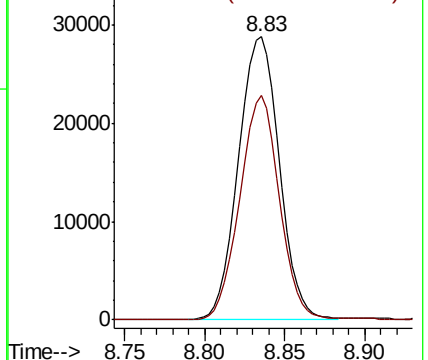


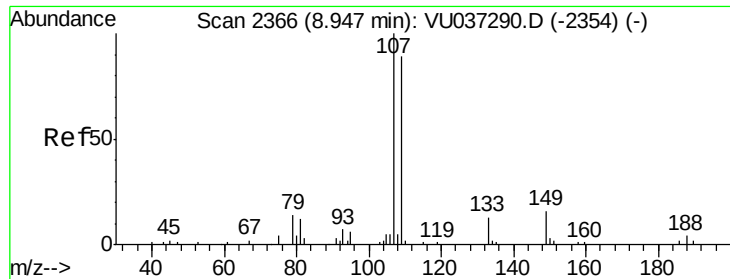
#49
Dibromochloromethane
Concen: 5.110 ug/L
RT: 8.83 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VU037305.D
Acq: 16 Mar 2020 20:19

Tgt Ion: 129 Resp: 50189
Ion Ratio Lower Upper
129 100
127 79.2 53.6 99.6



Abundance Ion 128.95 (128.65 to 129.65): VU037290.D (-2318) (-)
Ion 126.90 (126.60 to 127.60): VU037290.D (-2318) (-)

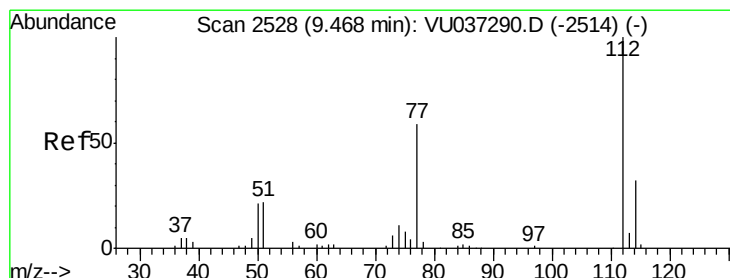
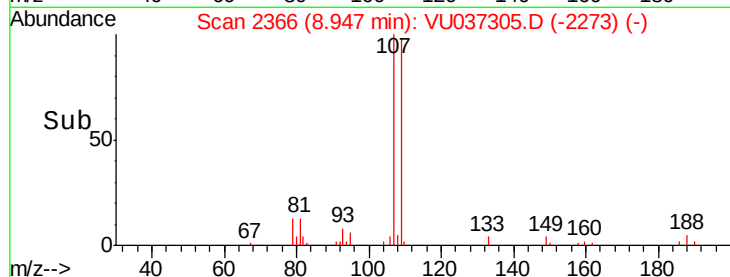
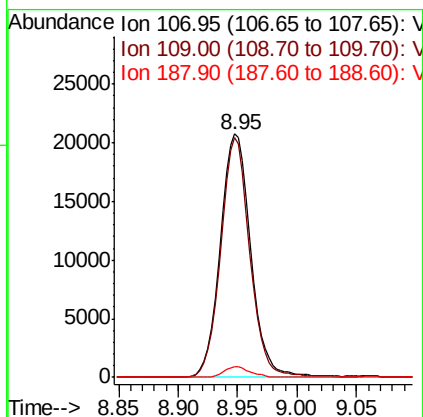
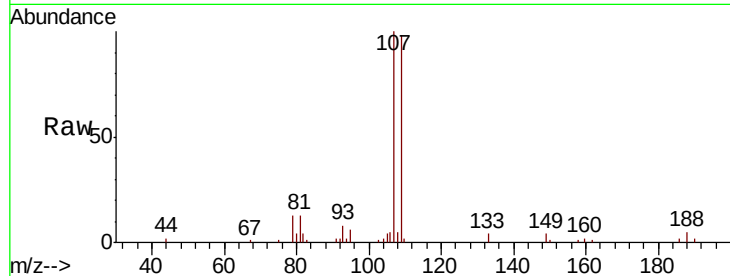




#50
 1,2-Dibromoethane
 Concen: 5.017 ug/L
 RT: 8.95 min Scan# 2366
 Delta R.T. 0.00 min
 Lab File: VU037305.D
 Acq: 16 Mar 2020 20:19

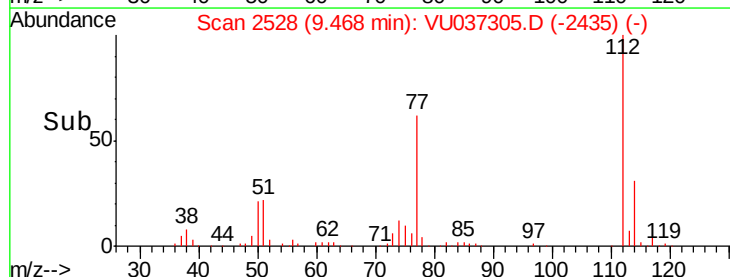
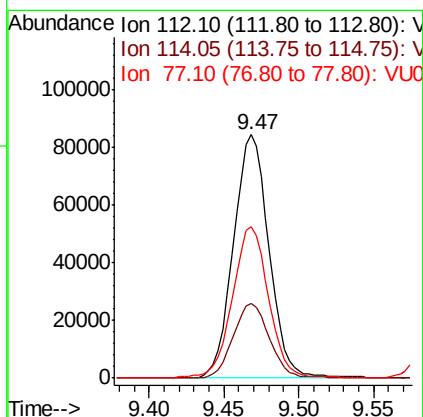
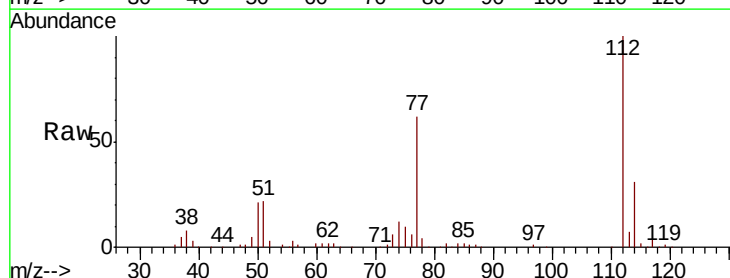
Instrument :
 MSVOA_U
 ClientSampled :

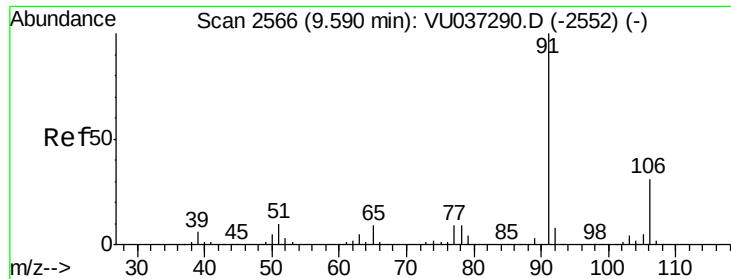
Tot Ion:107 Resp: 36720
 Ion Ratio Lower Upper
 107 100
 109 98.5 62.3 115.7
 188 4.5 3.0 4.6



#51
 Chlorobenzene
 Concen: 5.055 ug/L
 RT: 9.47 min Scan# 2528
 Delta R.T. 0.00 min
 Lab File: VU037305.D
 Acq: 16 Mar 2020 20:19

Tgt Ion:112 Resp: 138931
 Ion Ratio Lower Upper
 112 100
 114 30.7 22.1 41.1
 77 62.3 47.8 71.6





#52

Ethylbenzene

Concen: 5.089 ug/L

RT: 9.59 min Scan# 2566

Delta R.T. 0.00 min

Lab File: VU037305.D

Acq: 16 Mar 2020 20:19

Instrument :

MSVOA_U

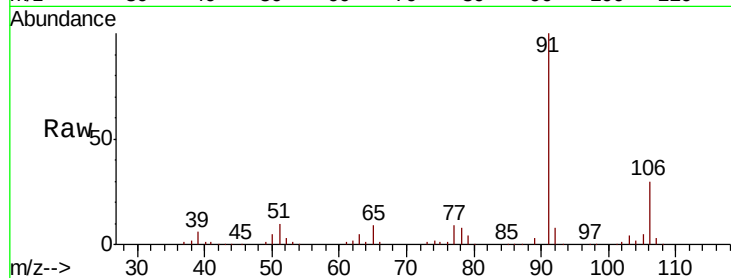
ClientSampleId :

Tot Ion: 91 Resp: 245829

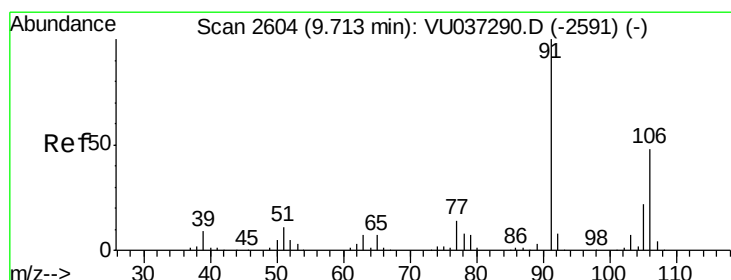
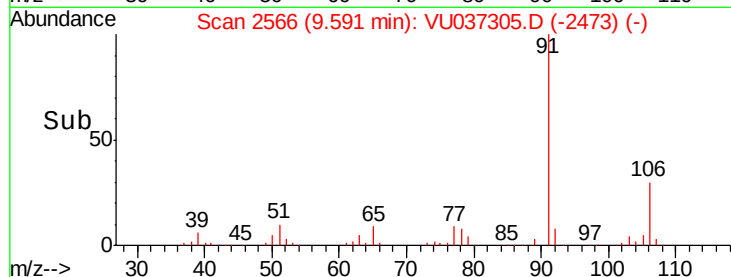
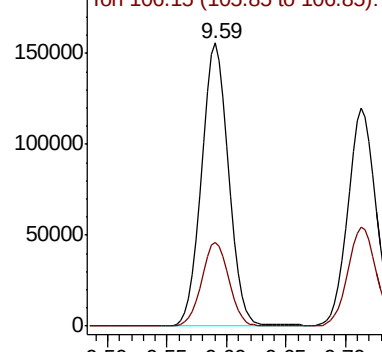
Ion Ratio Lower Upper

91 100

106 29.7 21.5 39.9



Abundance Ion 91.15 (90.85 to 91.85): VU037290.D (-2552) (-)



#53

m,p-Xylene

Concen: 5.044 ug/L

RT: 9.71 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VU037305.D

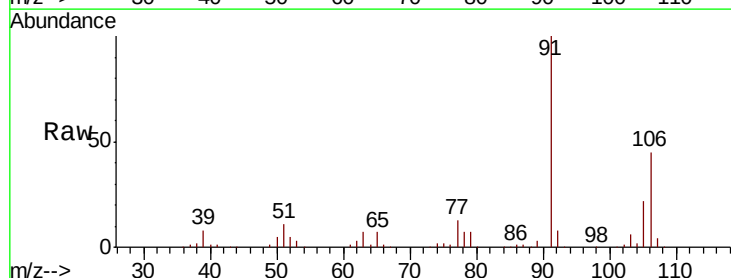
Acq: 16 Mar 2020 20:19

Tgt Ion: 106 Resp: 89622

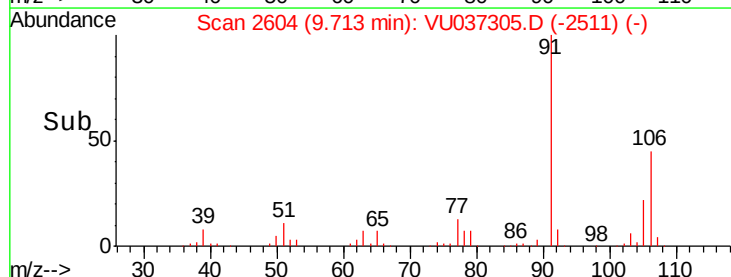
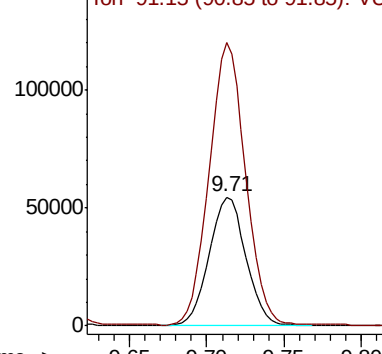
Ion Ratio Lower Upper

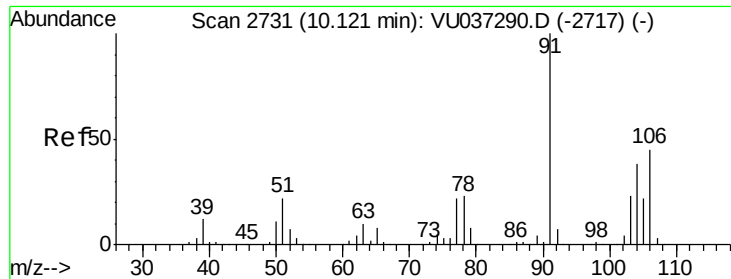
106 100

91 220.0 147.2 273.4



Abundance Ion 106.15 (105.85 to 106.85): VU037290.D (-2591) (-)

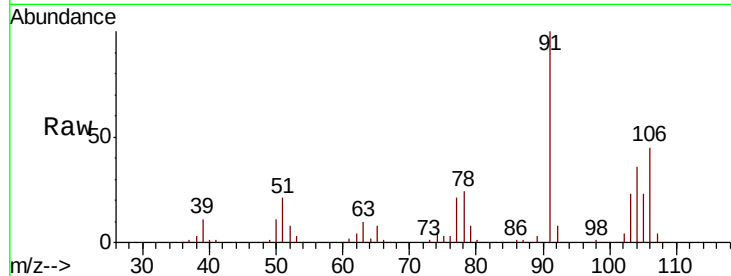




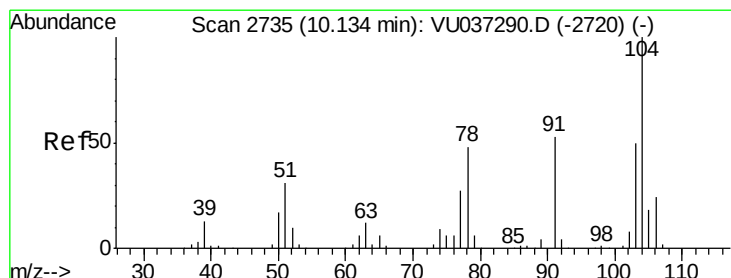
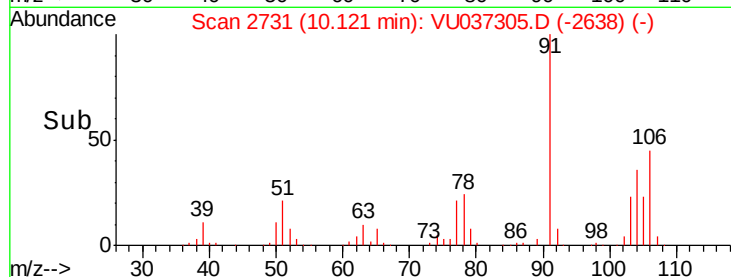
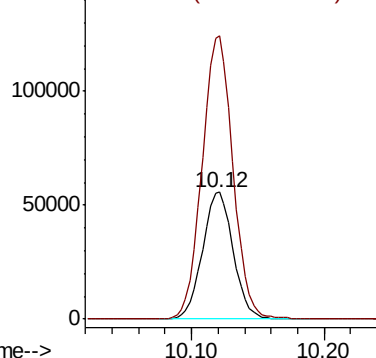
#54
o-Xylene
Concen: 5.272 ug/L
RT: 10.12 min Scan# 2731
Delta R.T. 0.00 min
Lab File: VU037305.D
Acq: 16 Mar 2020 20:19

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:106 Resp: 89413
Ion Ratio Lower Upper
106 100
91 223.3 155.8 289.3

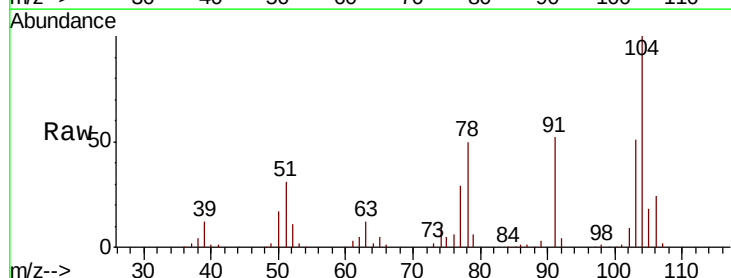


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

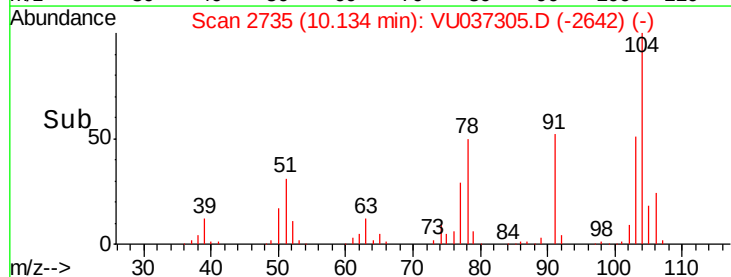
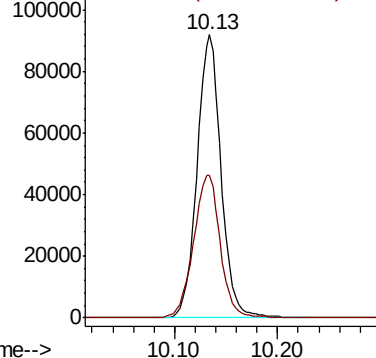


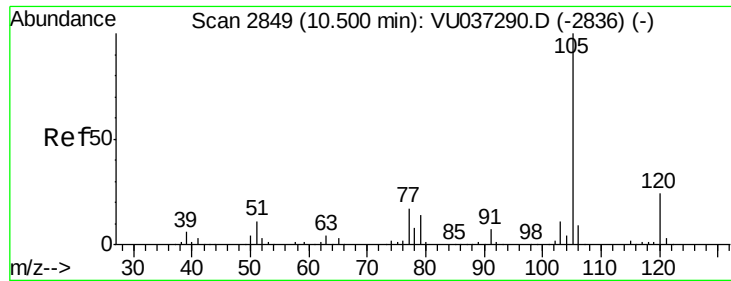
#55
Styrene
Concen: 5.216 ug/L
RT: 10.13 min Scan# 2735
Delta R.T. 0.00 min
Lab File: VU037305.D
Acq: 16 Mar 2020 20:19

Tgt Ion:104 Resp: 148891
Ion Ratio Lower Upper
104 100
78 50.5 33.6 62.4



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 5.131 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. 0.00 min

Lab File: VU037305.D

Acq: 16 Mar 2020 20:19

Instrument :

MSVOA_U

ClientSampleId :

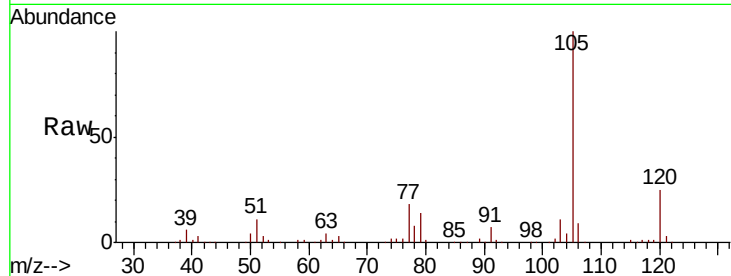
Tot Ion:105 Resp: 243179

Ion Ratio Lower Upper

105 100

120 25.9 20.2 30.2

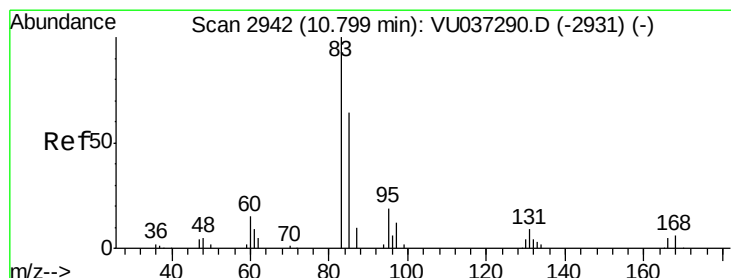
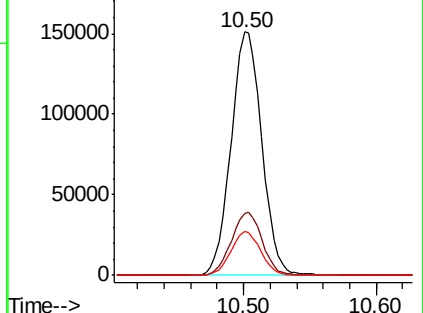
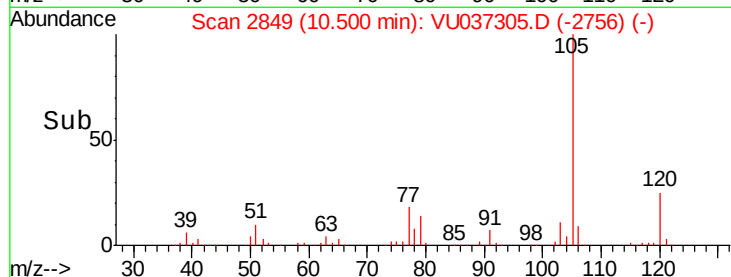
77 17.5 13.8 20.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.907 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. 0.00 min

Lab File: VU037305.D

Acq: 16 Mar 2020 20:19

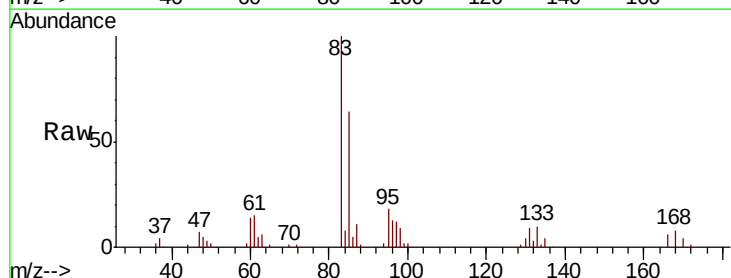
Tgt Ion: 83 Resp: 48729

Ion Ratio Lower Upper

83 100

85 63.8 45.9 85.3

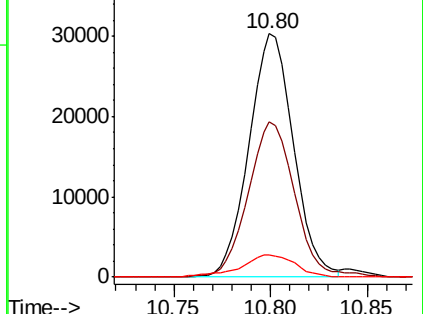
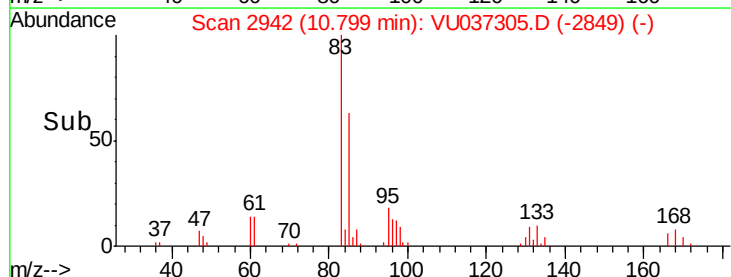
131 9.2 7.5 11.3

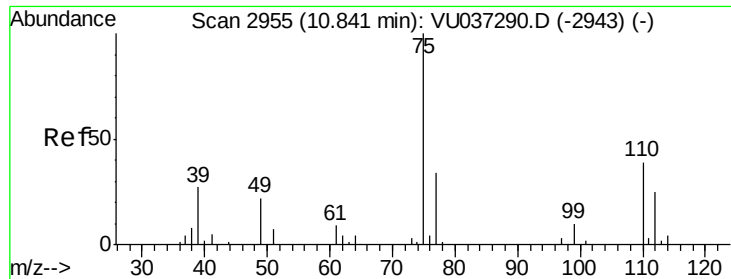


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.947 ug/L

RT: 10.84 min Scan# 2955

Delta R.T. 0.00 min

Lab File: VU037305.D

Acq: 16 Mar 2020 20:19

Instrument :

MSVOA_U

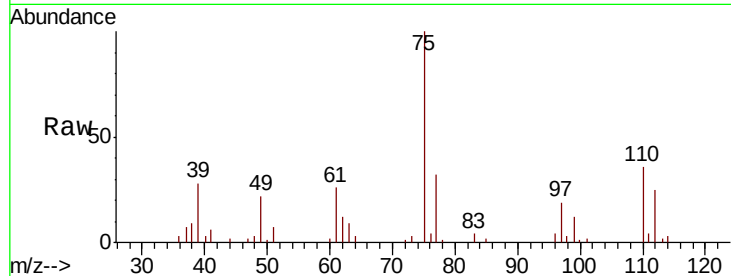
ClientSampleId :

Tot Ion: 75 Resp: 36702

Ion Ratio Lower Upper

75 100

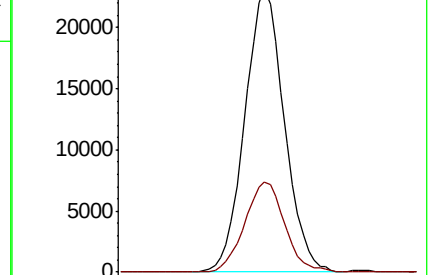
77 32.2 26.4 39.6



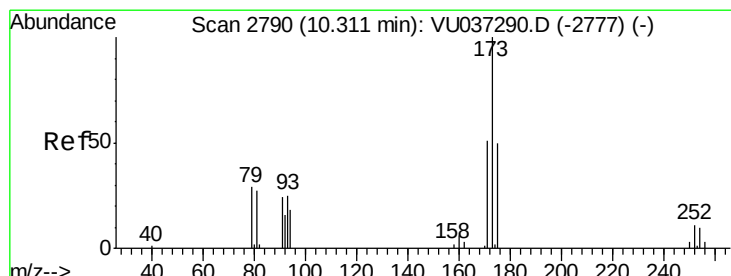
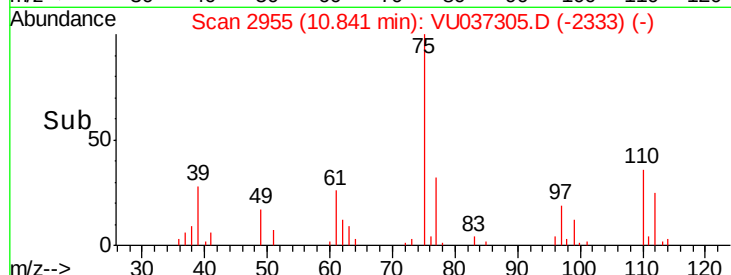
Abundance Ion 75.00 (74.70 to 75.70): VU037290.D (-2943) (-)

Ion 77.00 (76.70 to 77.70): VU037290.D (-2943) (-)

10.84



Time-->



#61

Bromoform

Concen: 4.830 ug/L

RT: 10.31 min Scan# 2790

Delta R.T. 0.00 min

Lab File: VU037305.D

Acq: 16 Mar 2020 20:19

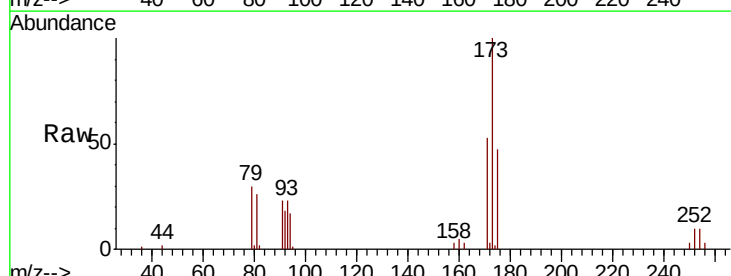
Tgt Ion: 173 Resp: 29504

Ion Ratio Lower Upper

173 100

175 47.1 38.2 57.2

254 10.1 7.8 11.8

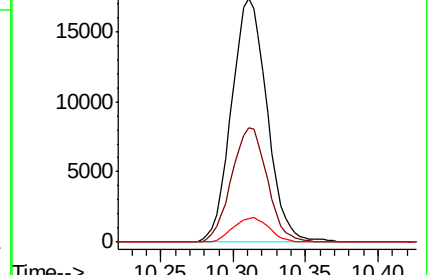


Abundance Ion 172.90 (172.60 to 173.60): VU037290.D (-2777) (-)

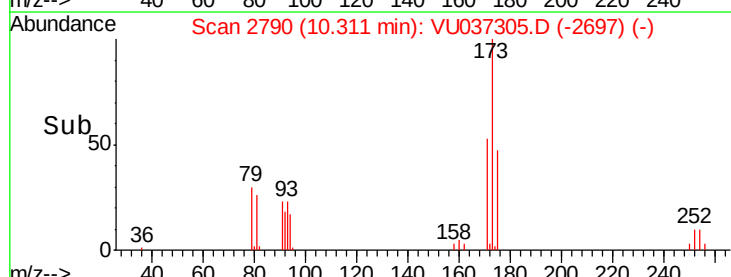
Ion 174.90 (174.60 to 175.60): VU037290.D (-2777) (-)

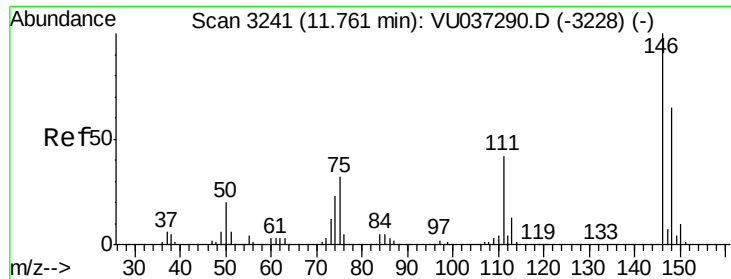
Ion 253.75 (253.45 to 254.45): VU037290.D (-2777) (-)

10.31



Time-->





#62

1,3-Dichlorobenzene

Concen: 4.810 ug/L

RT: 11.76 min Scan# 3241

Delta R.T. 0.00 min

Lab File: VU037305.D

Acq: 16 Mar 2020 20:19

Instrument :

MSVOA_U

ClientSampled :

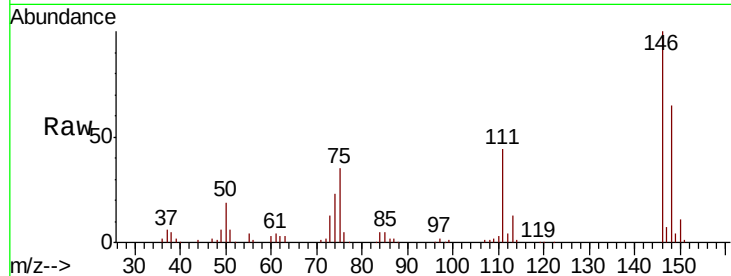
Tot Ion:146 Resp: 111856

Ion Ratio Lower Upper

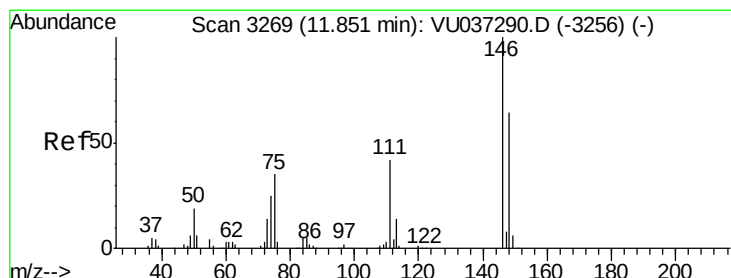
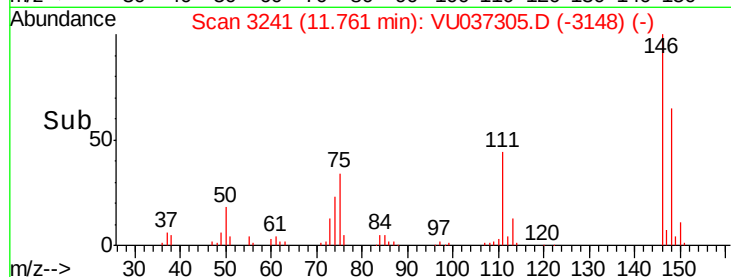
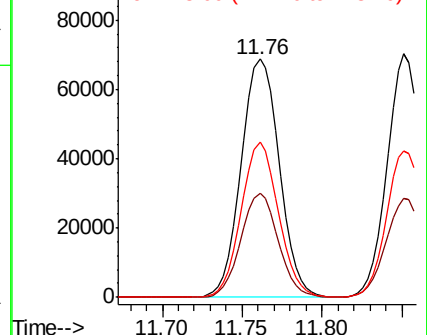
146 100

111 43.7 29.6 55.0

148 65.2 45.6 84.8



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



#63

1,4-Dichlorobenzene

Concen: 4.737 ug/L

RT: 11.85 min Scan# 3269

Delta R.T. 0.00 min

Lab File: VU037305.D

Acq: 16 Mar 2020 20:19

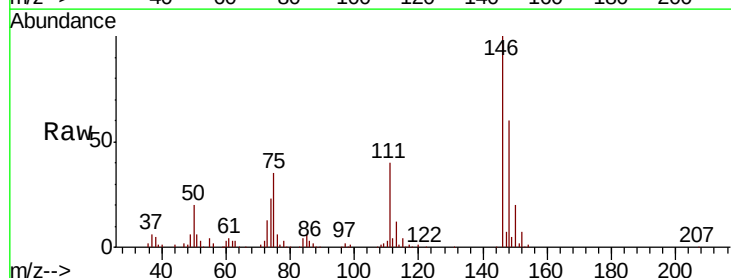
Tgt Ion:146 Resp: 109696

Ion Ratio Lower Upper

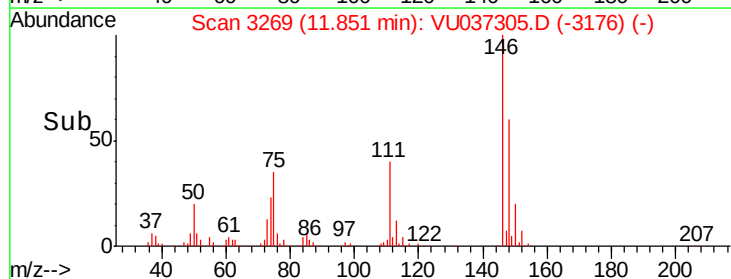
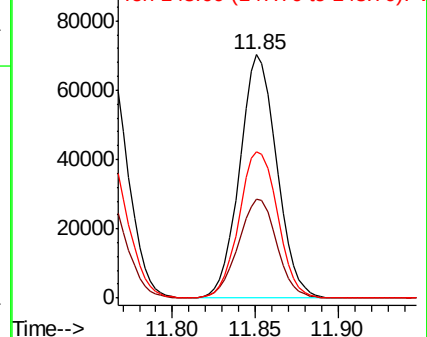
146 100

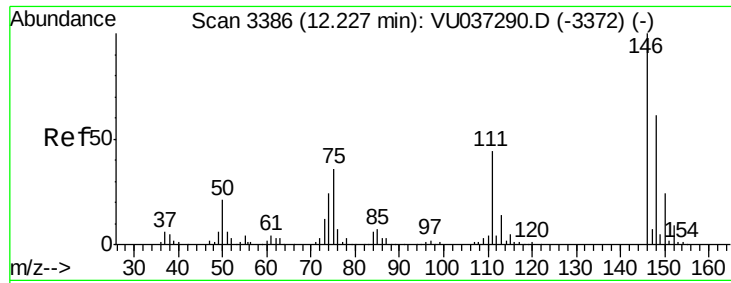
111 40.5 29.0 53.9

148 60.2 45.1 83.9



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

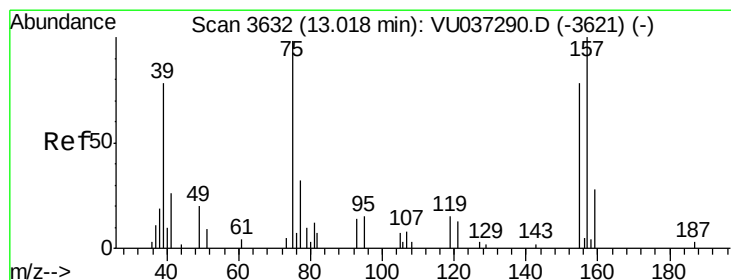
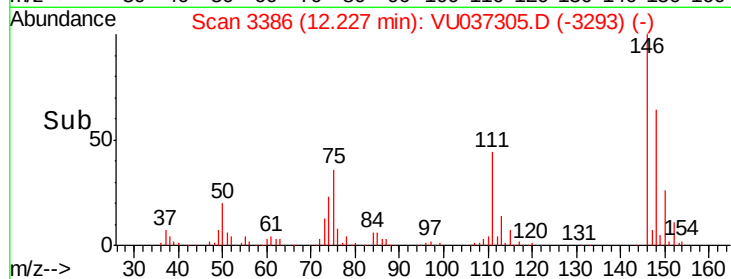
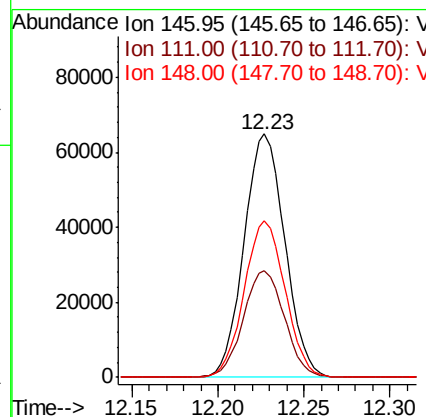
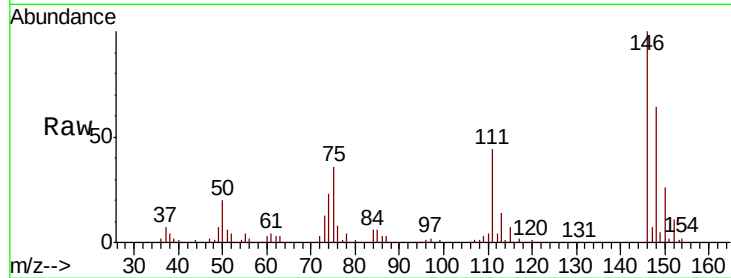




#65
 1,2-Dichlorobenzene
 Concen: 4.717 ug/L
 RT: 12.23 min Scan# 3386
 Delta R.T. 0.00 min
 Lab File: VU037305.D
 Acq: 16 Mar 2020 20:19

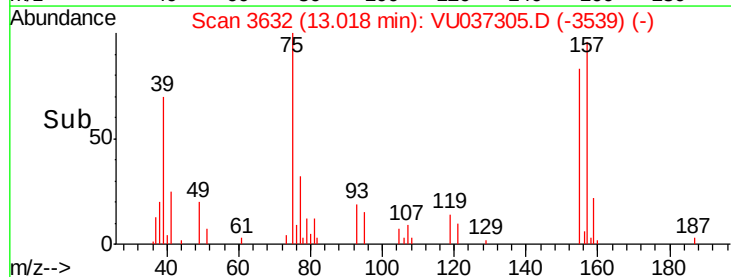
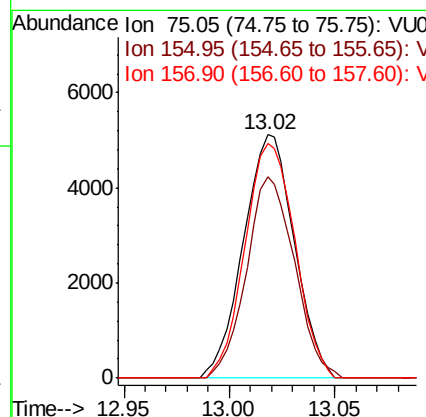
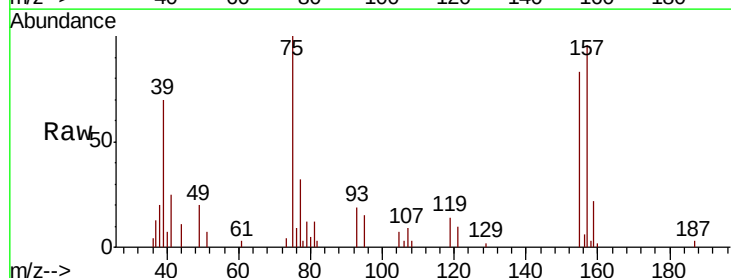
Instrument :
 MSVOA_U
 ClientSampled :

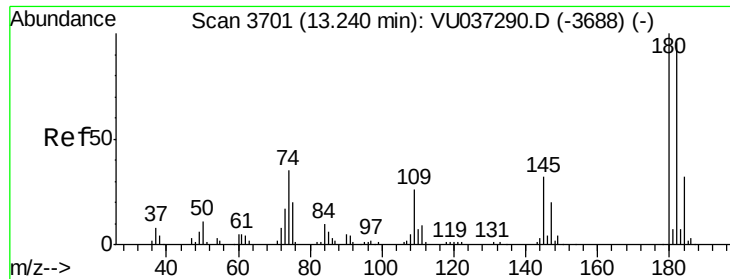
Tot Ion:146 Resp: 106795
 Ion Ratio Lower Upper
 146 100
 111 43.6 35.4 53.2
 148 64.1 48.8 73.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.869 ug/L
 RT: 13.02 min Scan# 3632
 Delta R.T. 0.00 min
 Lab File: VU037305.D
 Acq: 16 Mar 2020 20:19

Tgt Ion: 75 Resp: 8586
 Ion Ratio Lower Upper
 75 100
 155 82.9 63.7 95.5
 157 96.1 81.5 122.3

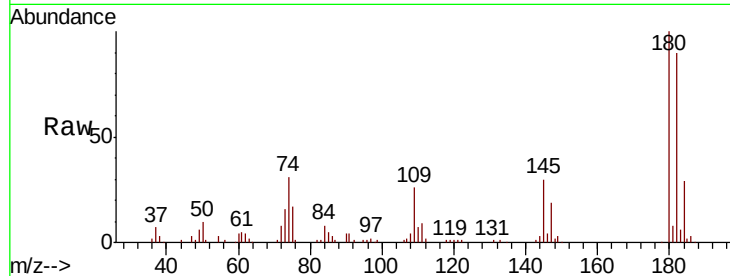




#67
 1,3,5-Trichlorobenzene
 Concen: 4.784 ug/L
 RT: 13.24 min Scan# 3702
 Delta R.T. 0.00 min
 Lab File: VU037305.D
 Acq: 16 Mar 2020 20:19

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.2	114.4
184	30.3	24.4	36.6
145	31.3	24.6	36.8



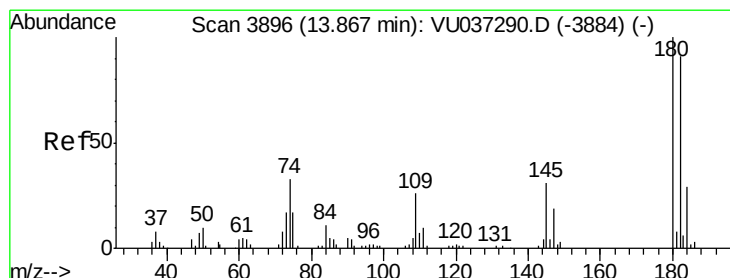
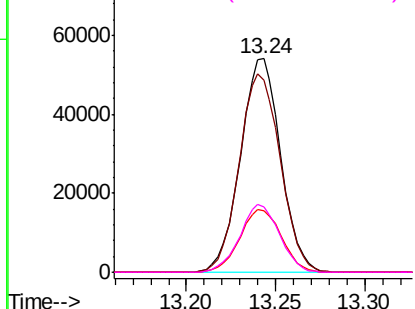
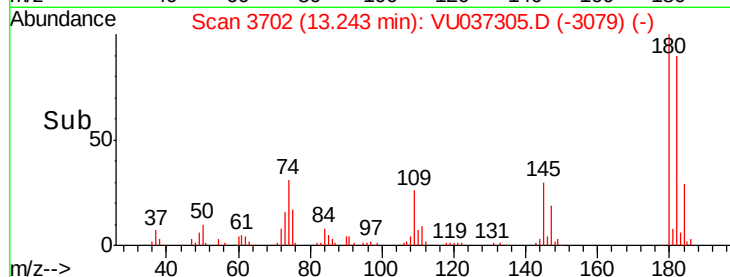
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

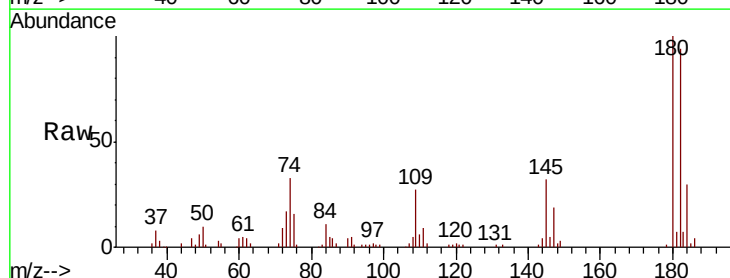
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.843 ug/L
 RT: 13.87 min Scan# 3897
 Delta R.T. 0.00 min
 Lab File: VU037305.D
 Acq: 16 Mar 2020 20:19

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.3	73.8	110.6
145	31.6	24.6	36.8

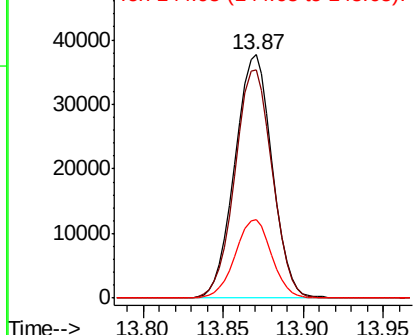
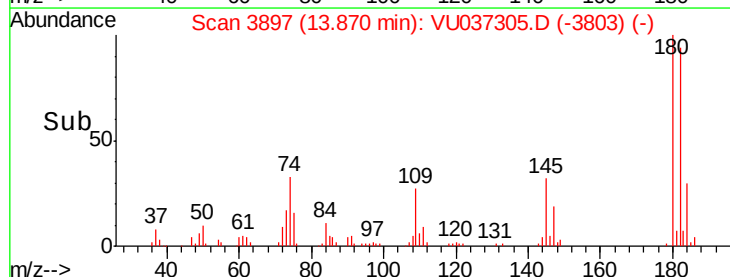


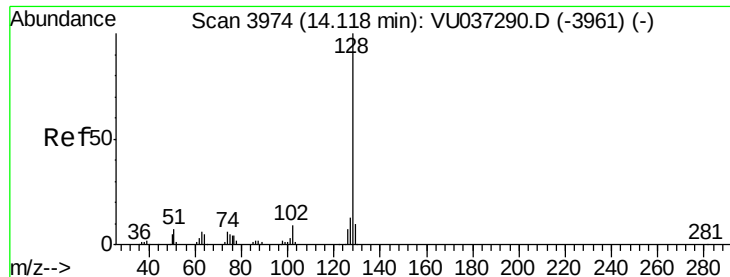
Abundance

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: 4.458 ug/L

RT: 14.12 min Scan# 3974

Delta R.T. 0.00 min

Lab File: VU037305.D

Acq: 16 Mar 2020 20:19

Instrument :

MSVOA_U

ClientSampleId :

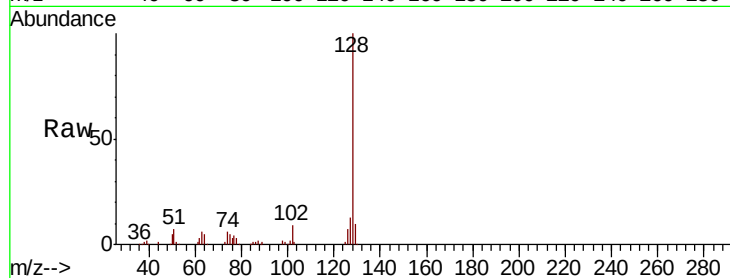
Tot Ion:128 Resp: 78668

Ion Ratio Lower Upper

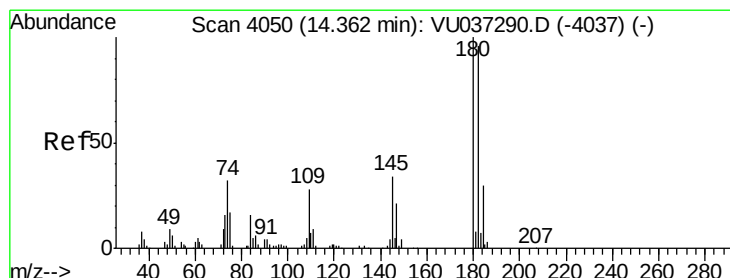
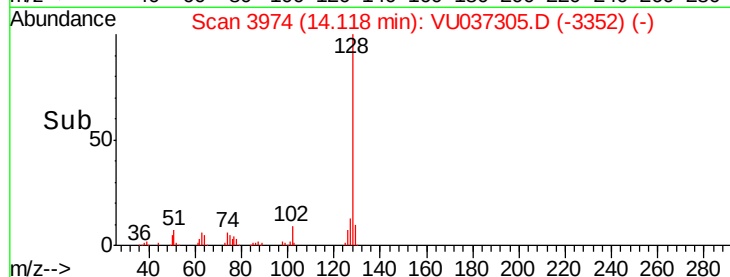
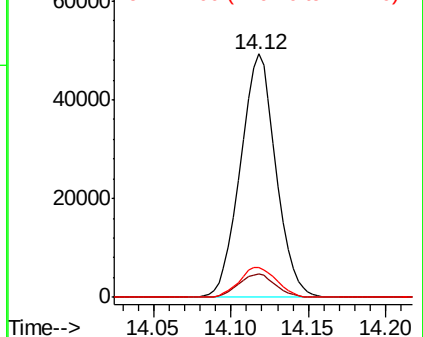
128 100

129 10.0 8.6 12.8

127 12.9 10.0 15.0



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: 4.744 ug/L

RT: 14.36 min Scan# 4050

Delta R.T. 0.00 min

Lab File: VU037305.D

Acq: 16 Mar 2020 20:19

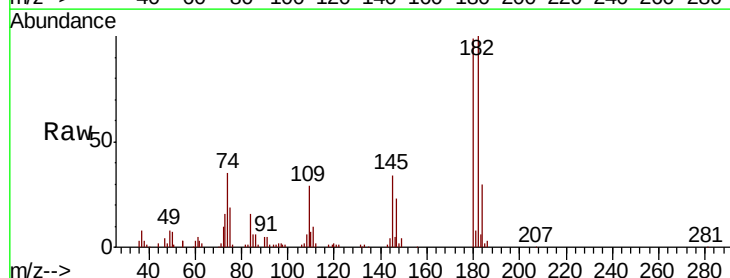
Tgt Ion:180 Resp: 56643

Ion Ratio Lower Upper

180 100

182 97.5 77.4 116.2

145 33.4 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

