

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU032720\
 Data File : VU037398.D
 Acq On : 28 Mar 2020 02:42
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Mar 28 06:13:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032720WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Mar 28 01:55:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	259954	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	244620	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	127544	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	81438	48.84	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	97.68%
7) Chloroethane-d5	1.93	69	64817	47.57	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	95.14%
11) 1,1-Dichloroethene-d2	2.59	63	166483	45.94	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.88%
21) 2-Butanone-d5	4.67	46	144315	96.29	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	96.29%
24) Chloroform-d	5.10	84	167715	48.55	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.10%
26) 1,2-Dichloroethane-d4	5.74	65	113397	50.39	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.78%
32) Benzene-d6	5.76	84	330146	49.56	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.12%
36) 1,2-Dichloropropane-d6	6.72	67	107095	49.19	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.38%
41) Toluene-d8	7.92	98	314667	49.71	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.42%
43) trans-1,3-Dichloropropene-	8.20	79	58208	46.35	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.70%
47) 2-Hexanone-d5	8.65	63	108984	87.17	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	87.17%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	161703	49.62	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.24%
64) 1,2-Dichlorobenzene-d4	12.21	152	124523	48.15	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.30%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	106363	39.441	ug/L 99
3) Chloromethane	1.54	50	94869	40.987	ug/L 99
5) Vinyl chloride	1.62	62	91832	39.901	ug/L 100
6) Bromomethane	1.87	94	45468	42.129	ug/L 93
8) Chloroethane	1.95	64	49063	38.863	ug/L 99
9) Trichlorofluoromethane	2.16	101	125169	41.126	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	72486	37.041	ug/L 99
12) 1,1-Dichloroethene	2.60	96	76518	38.292	ug/L 96
13) Acetone	2.66	43	86957	73.689	ug/L 97
14) Carbon disulfide	2.82	76	249262	37.801	ug/L 99
15) Methyl Acetate	2.98	43	102319	39.004	ug/L 98
16) Methylene chloride	3.08	84	87107	38.047	ug/L 96
17) trans-1,2-Dichloroethene	3.39	96	79296	37.738	ug/L 96
18) Methyl tert-butyl Ether	3.40	73	279586	39.254	ug/L 99
19) 1,1-Dichloroethane	3.91	63	152389	39.147	ug/L 99
20) cis-1,2-Dichloroethene	4.71	96	91206	38.975	ug/L # 96
22) 2-Butanone	4.75	43	149373	80.166	ug/L 100

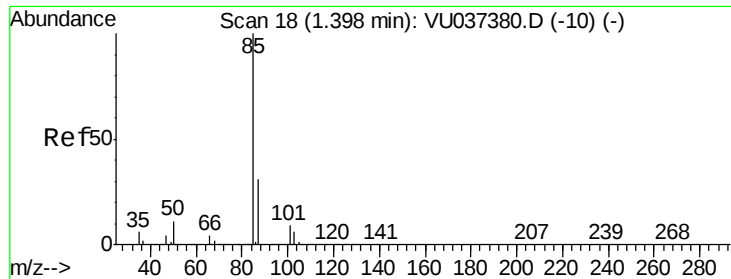
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU032720\
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 Quant Title : VOC Analysis
 QLast Update : Sat Mar 28 01:55:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	47260	38.599	ug/L	92
25) Chloroform	5.13	83	160388	40.206	ug/L	99
27) 1,2-Dichloroethane	5.83	62	129776	40.876	ug/L	98
29) Cyclohexane	5.42	56	136814	38.856	ug/L	98
30) 1,1,1-Trichloroethane	5.35	97	143121	39.316	ug/L	98
31) Carbon tetrachloride	5.56	117	126627	40.271	ug/L	98
33) Benzene	5.81	78	335558	38.885	ug/L	100
34) Trichloroethene	6.57	95	89150	38.659	ug/L	98
35) Methylcyclohexane	6.79	83	135051	37.181	ug/L	98
37) 1,2-Dichloropropane	6.82	63	91393	39.889	ug/L	99
38) Bromodichloromethane	7.13	83	125499	39.088	ug/L	98
39) cis-1,3-Dichloropropene	7.63	75	148317	38.449	ug/L	100
40) 4-Methyl-2-pentanone	7.82	43	290166	80.128	ug/L #	100
42) Toluene	7.99	91	369107	39.504	ug/L	100
44) trans-1,3-Dichloropropene	8.23	75	146156	38.000	ug/L	98
45) 1,1,2-Trichloroethane	8.42	97	87711	39.513	ug/L	99
46) Tetrachloroethene	8.57	164	66555	37.589	ug/L	98
48) 2-Hexanone	8.71	43	235528	82.586	ug/L	99
49) Dibromochloromethane	8.83	129	104197	38.912	ug/L	99
50) 1,2-Dibromoethane	8.95	107	98030	38.766	ug/L	98
51) Chlorobenzene	9.47	112	234527	39.386	ug/L	100
52) Ethylbenzene	9.59	91	412244	39.271	ug/L	99
53) m,p-Xylene	9.71	106	156954	39.072	ug/L	98
54) o-xylene	10.12	106	156153	39.886	ug/L	97
55) Styrene	10.13	104	269479	39.200	ug/L	99
56) Isopropylbenzene	10.50	105	409559	39.523	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	149040	38.243	ug/L	98
59) 1,2,3-Trichloropropane	10.84	75	126121	40.021	ug/L	99
61) Bromoform	10.31	173	84656	37.937	ug/L #	97
62) 1,3-Dichlorobenzene	11.76	146	186261	37.461	ug/L	100
63) 1,4-Dichlorobenzene	11.85	146	187698	37.835	ug/L	98
65) 1,2-Dichlorobenzene	12.23	146	184044	37.462	ug/L	98
66) 1,2-Dibromo-3-chloropropan	13.01	75	43498	37.678	ug/L	92
67) 1,3,5-Trichlorobenzene	13.24	180	140099	36.297	ug/L	97
68) 1,2,4-trichlorobenzene	13.87	180	134386	35.414	ug/L	98
69) Naphthalene	14.11	128	485850	37.996	ug/L	99
70) 1,2,3-Trichlorobenzene	14.36	180	140560	36.958	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 39.441 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU037398.D

Acq: 28 Mar 2020 02:42

Instrument :

MSVOA_U

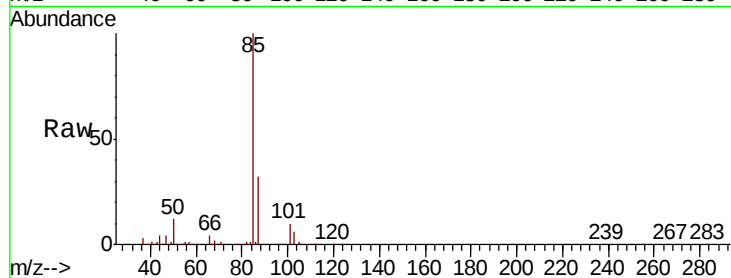
ClientSampleId :

Tot Ion: 85 Resp: 106363

Ion Ratio Lower Upper

85 100

87 31.9 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VU037380.D (-10) (-)

Ion 87.00 (86.70 to 87.70): VU037380.D (-10) (-)

1.39

100000

80000

60000

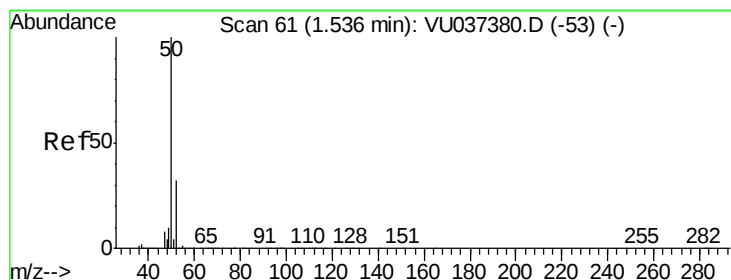
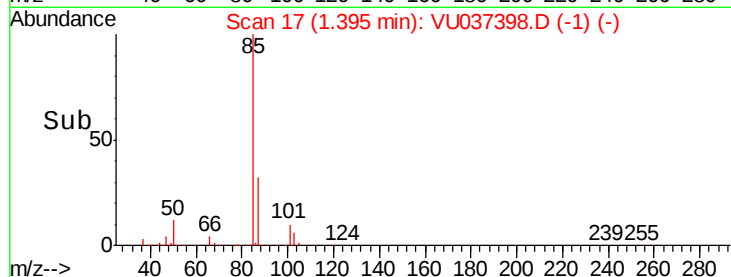
40000

20000

0

1.35 1.40 1.45

Time-->



#3

Chloromethane

Concen: 40.987 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU037398.D

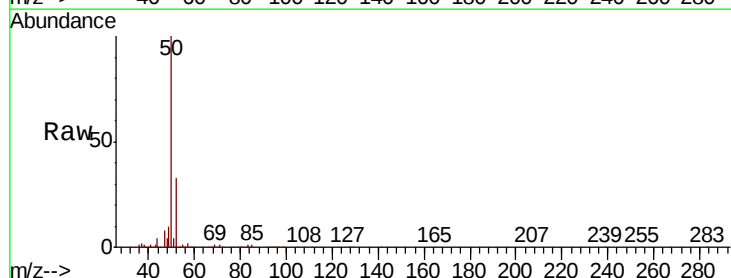
Acq: 28 Mar 2020 02:42

Tgt Ion: 50 Resp: 94869

Ion Ratio Lower Upper

50 100

52 32.5 23.2 43.2



Abundance Ion 50.00 (49.70 to 50.70): VU037380.D (-53) (-)

Ion 52.00 (51.70 to 52.70): VU037380.D (-53) (-)

1.54

100000

80000

60000

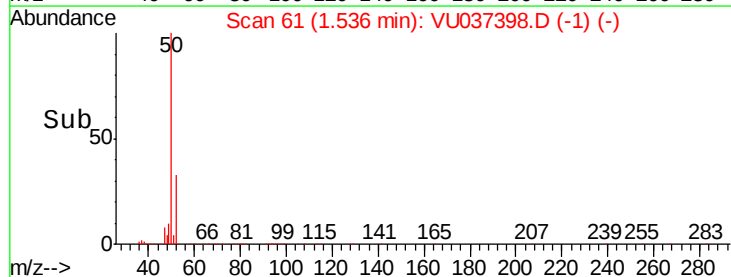
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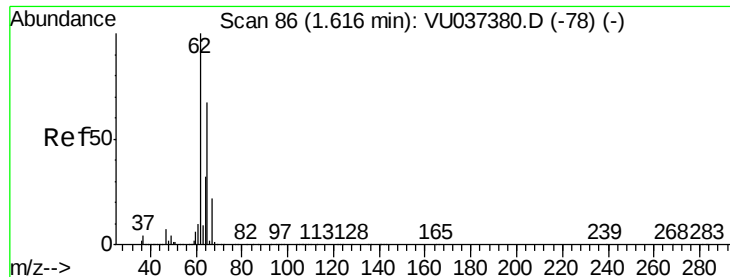
20000

0

1.50 1.55

Time-->





#5

Vinyl chloride

Concen: 39.901 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU037398.D

Acq: 28 Mar 2020 02:42

Instrument :

MSVOA_U

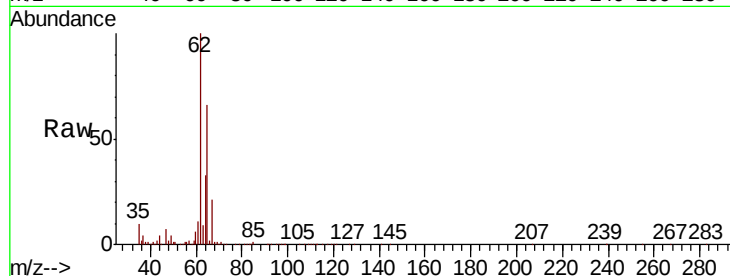
ClientSampleId :

Tot Ion: 62 Resp: 91832

Ion Ratio Lower Upper

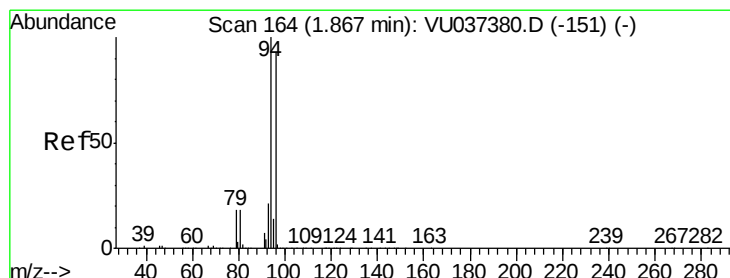
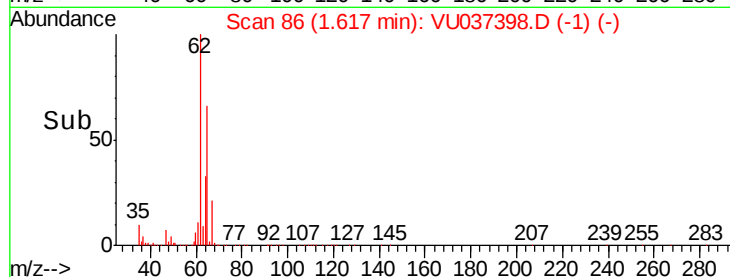
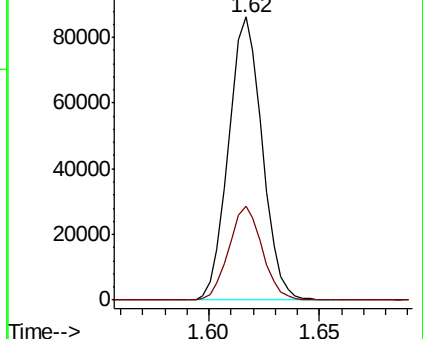
62 100

64 33.1 23.0 42.8



Abundance Ion 62.00 (61.70 to 62.70): VU037380.D (-78) (-)

Ion 64.00 (63.70 to 64.70): VU037380.D (-78) (-)



#6

Bromomethane

Concen: 42.129 ug/L

RT: 1.87 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU037398.D

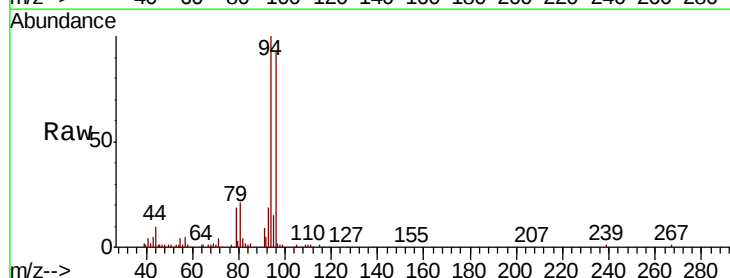
Acq: 28 Mar 2020 02:42

Tgt Ion: 94 Resp: 45468

Ion Ratio Lower Upper

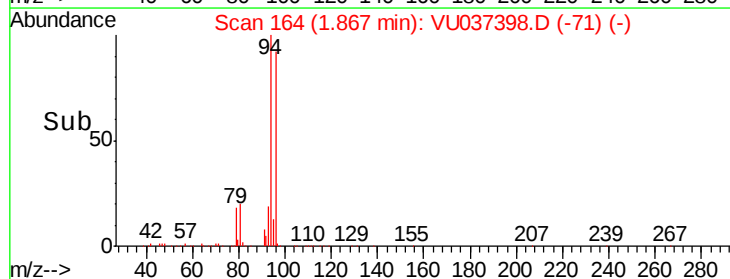
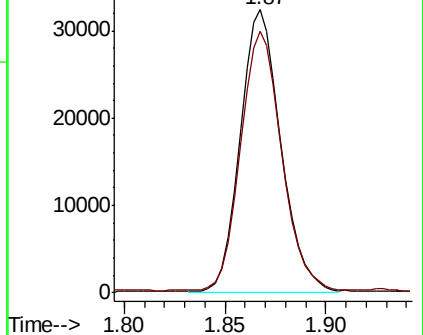
94 100

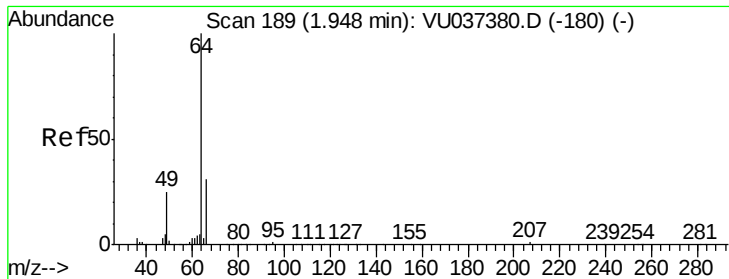
96 92.6 69.9 129.7



Abundance Ion 94.00 (93.70 to 94.70): VU037380.D (-151) (-)

Ion 96.00 (95.70 to 96.70): VU037380.D (-151) (-)





#8

Chloroethane

Concen: 38.863 ug/L

RT: 1.95 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU037398.D

Acq: 28 Mar 2020 02:42

Instrument :

MSVOA_U

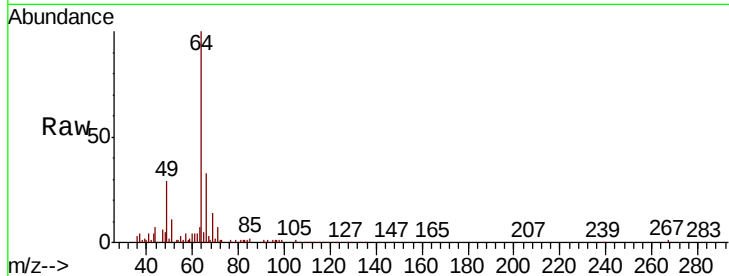
ClientSampleId :

Tot Ion: 64 Resp: 49063

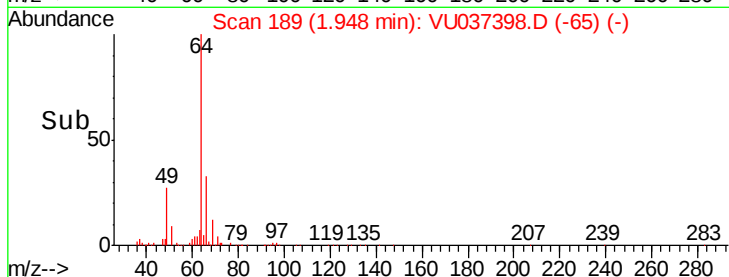
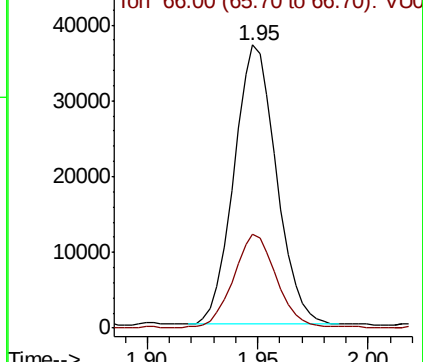
Ion Ratio Lower Upper

64 100

66 33.1 22.8 42.4



Abundance Ion 64.00 (63.70 to 64.70): VU037380.D (-180) (-)



#9

Trichlorofluoromethane

Concen: 41.126 ug/L

RT: 2.16 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU037398.D

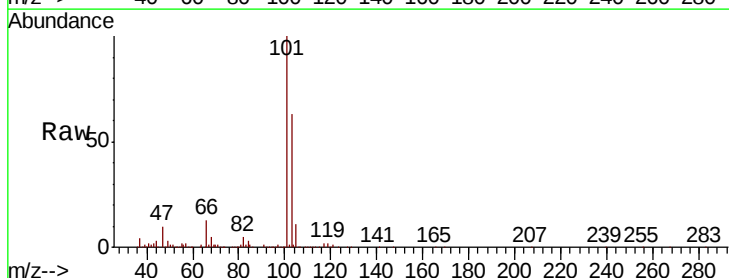
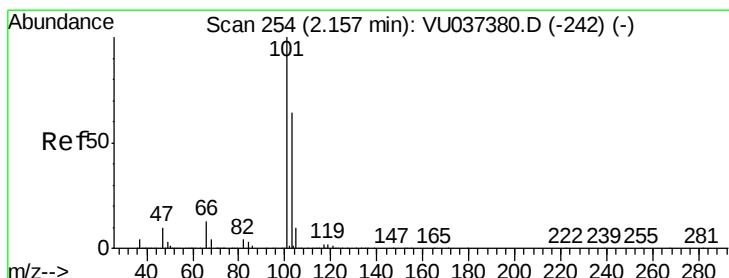
Acq: 28 Mar 2020 02:42

Tgt Ion: 101 Resp: 125169

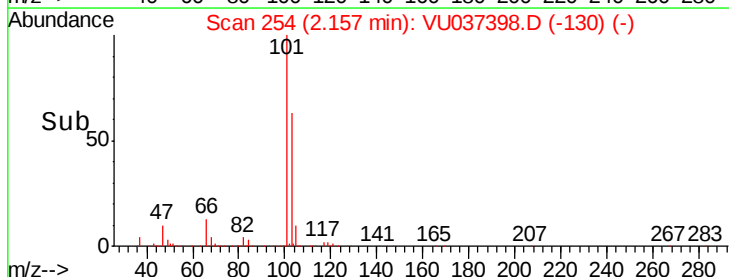
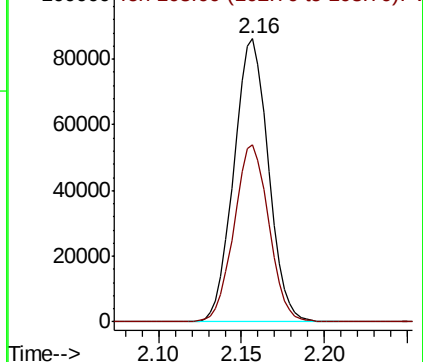
Ion Ratio Lower Upper

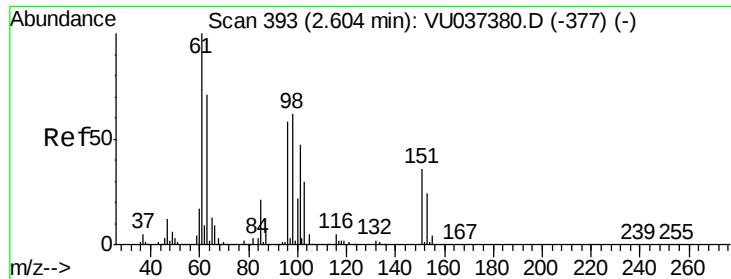
101 100

103 63.1 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): VU037380.D (-242) (-)





#10

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

Concen: 37.041 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037398.D

Acq: 28 Mar 2020 02:42

Instrument :

MSVOA_U

ClientSampled :

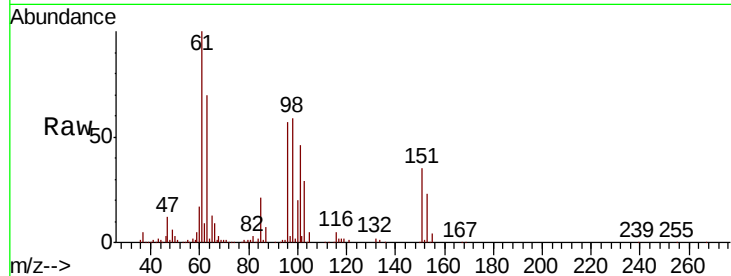
Tot Ion:101 Resp: 72486

Ion Ratio Lower Upper

101 100

85 44.4 35.6 53.4

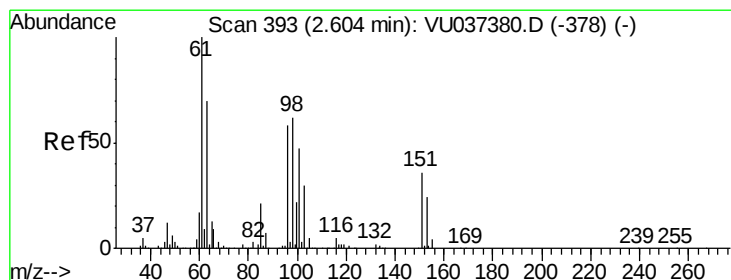
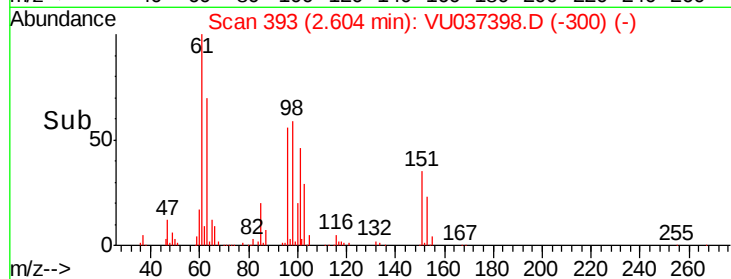
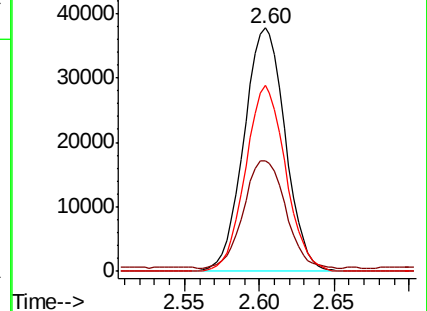
151 74.4 60.2 90.4



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: 38.292 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037398.D

Acq: 28 Mar 2020 02:42

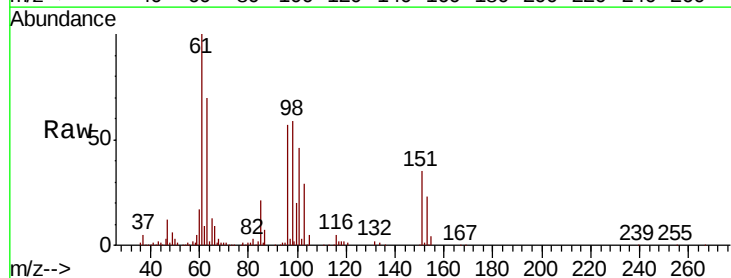
Tgt Ion: 96 Resp: 76518

Ion Ratio Lower Upper

96 100

61 176.3 120.0 222.8

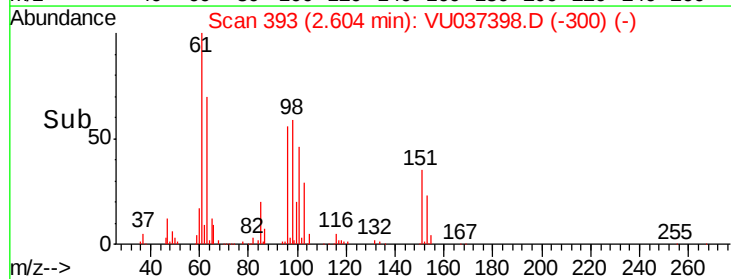
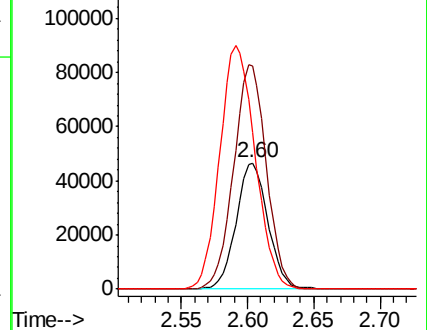
63 123.7 83.3 154.7

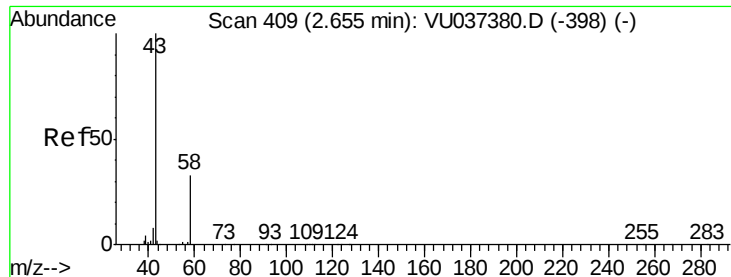


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 73.689 ug/L

RT: 2.66 min Scan# 409

Delta R.T. 0.00 min

Lab File: VU037398.D

Acq: 28 Mar 2020 02:42

Instrument :

MSVOA_U

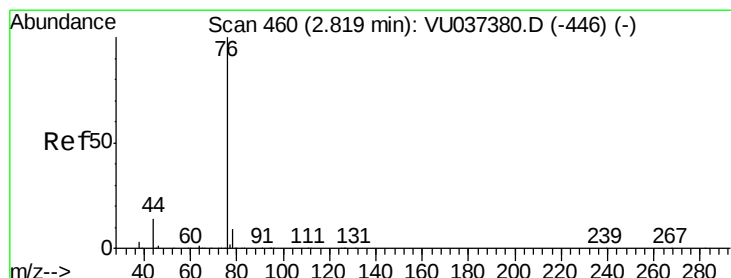
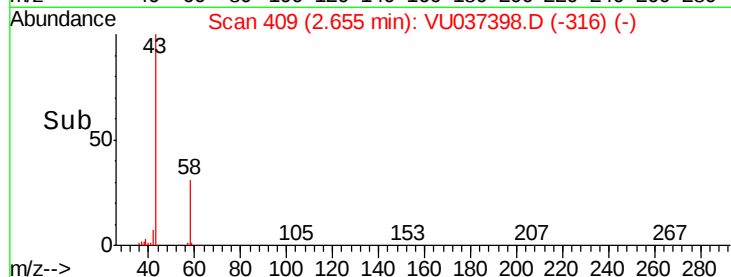
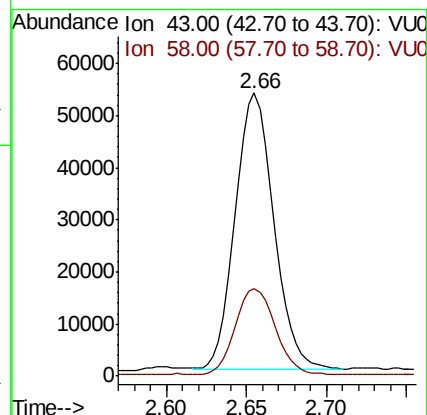
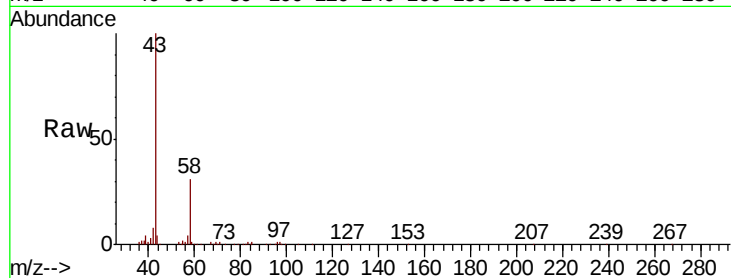
ClientSampleId :

Tot Ion: 43 Resp: 86957

Ion Ratio Lower Upper

43 100

58 32.9 0.0 62.8



#14

Carbon disulfide

Concen: 37.801 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU037398.D

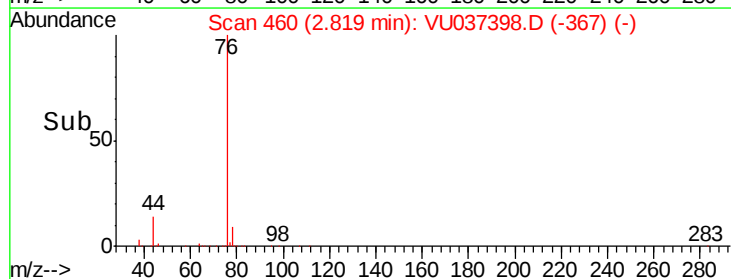
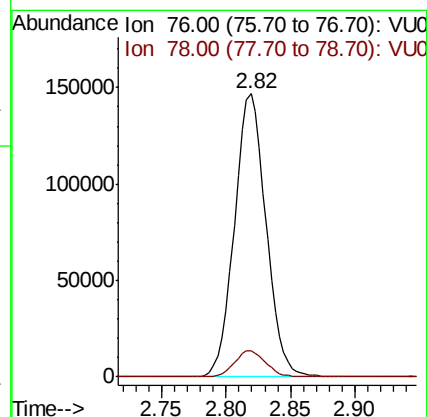
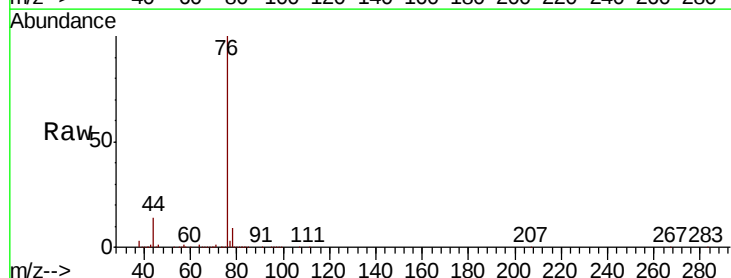
Acq: 28 Mar 2020 02:42

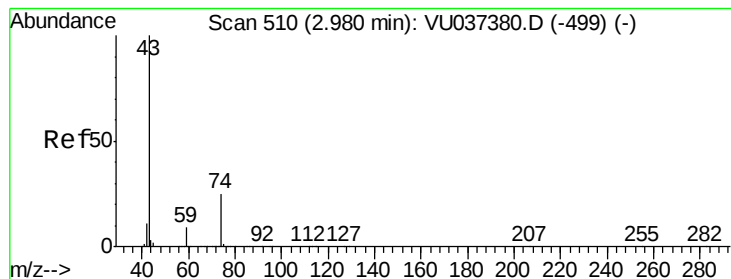
Tgt Ion: 76 Resp: 249262

Ion Ratio Lower Upper

76 100

78 9.1 7.4 11.2





#15

Methvl Acetate

Concen: 39.004 ug/L

RT: 2.98 min Scan# 510

Delta R.T. 0.00 min

Lab File: VU037398.D

Acq: 28 Mar 2020 02:42

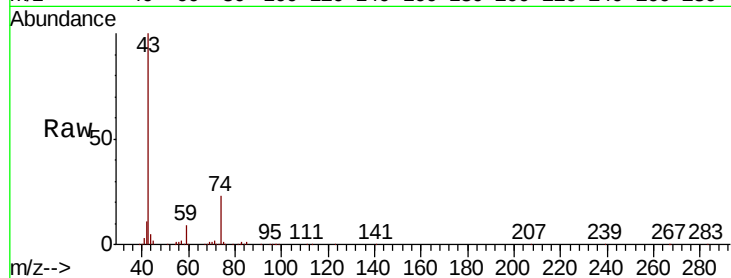
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 102319

Ion Ratio Lower Upper

43 100

74 24.3 20.1 30.1



Abundance Ion 43.00 (42.70 to 43.70): VU037398.D (-417) (-)

Ion 74.00 (73.70 to 74.70): VU037398.D (-417) (-)

2.98

60000

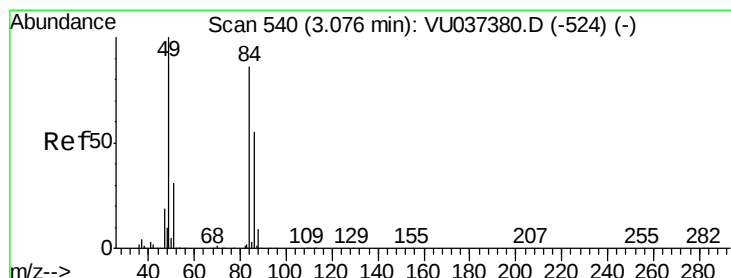
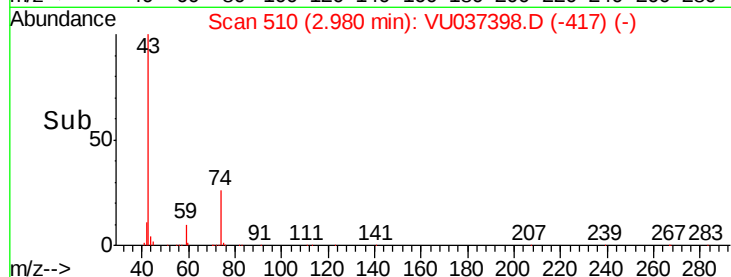
40000

20000

0

Time-->

2.90 2.95 3.00 3.05



#16

Methylene chloride

Concen: 38.047 ug/L

RT: 3.08 min Scan# 540

Delta R.T. 0.00 min

Lab File: VU037398.D

Acq: 28 Mar 2020 02:42

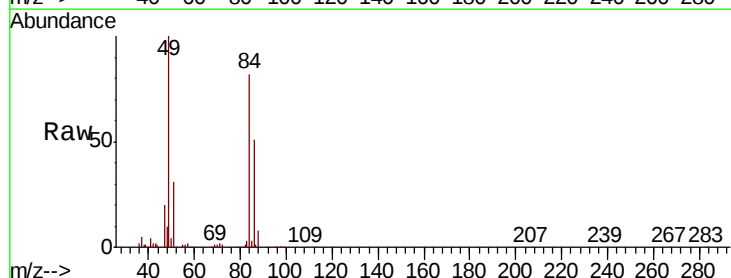
Tgt Ion: 84 Resp: 87107

Ion Ratio Lower Upper

84 100

86 62.8 45.9 85.3

49 122.5 82.7 153.5



Abundance Ion 84.00 (83.70 to 84.70): VU037398.D (-447) (-)

Ion 86.00 (85.70 to 86.70): VU037398.D (-447) (-)

Ion 49.00 (48.70 to 49.70): VU037398.D (-447) (-)

3.08

60000

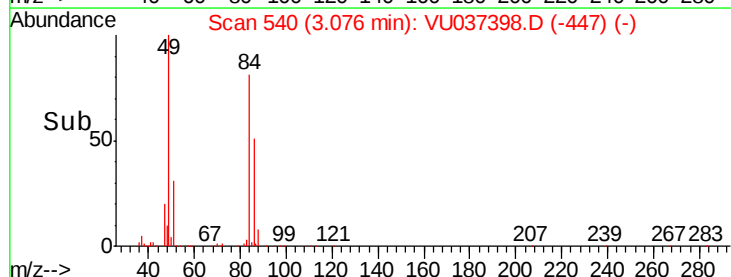
40000

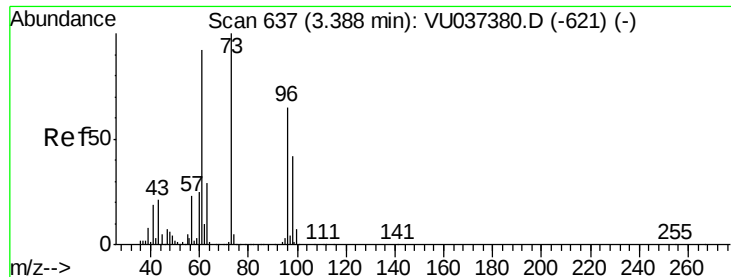
20000

0

Time-->

3.00 3.05 3.10 3.15





#17

trans-1,2-Dichloroethene

Concen: 37.738 ug/L

RT: 3.39 min Scan# 637

Delta R.T. 0.00 min

Lab File: VU037398.D

Acq: 28 Mar 2020 02:42

Instrument :

MSVOA_U

ClientSampleId :

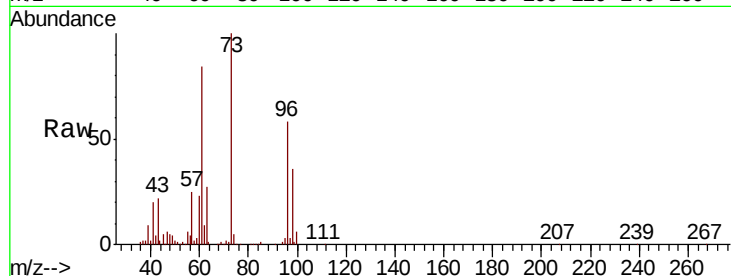
Tot Ion: 96 Resp: 79296

Ion Ratio Lower Upper

96 100

61 145.3 96.6 179.4

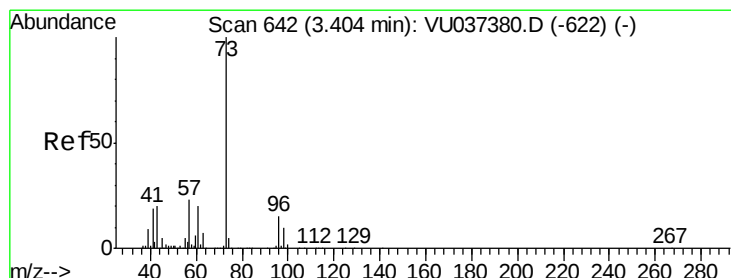
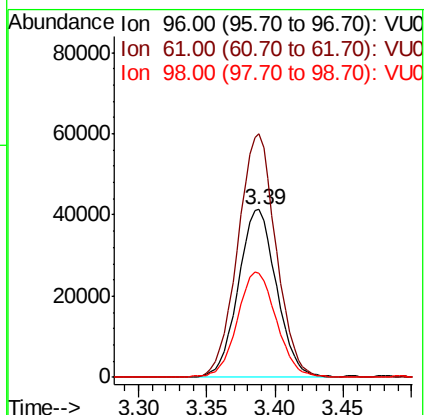
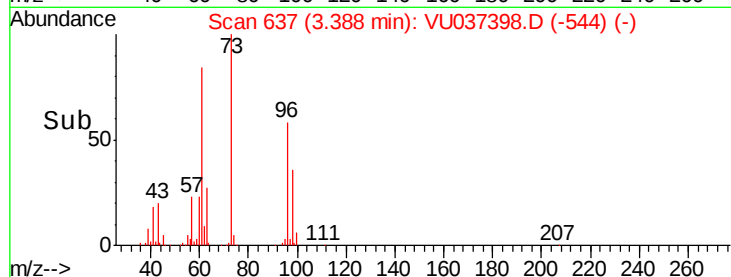
98 62.2 43.4 80.6



Abundance Ion 96.00 (95.70 to 96.70): VU037398.D (-544) (-)

Ion 61.00 (60.70 to 61.70): VU037398.D (-544) (-)

Ion 98.00 (97.70 to 98.70): VU037398.D (-544) (-)



#18

Methyl tert-butyl Ether

Concen: 39.254 ug/L

RT: 3.40 min Scan# 642

Delta R.T. 0.00 min

Lab File: VU037398.D

Acq: 28 Mar 2020 02:42

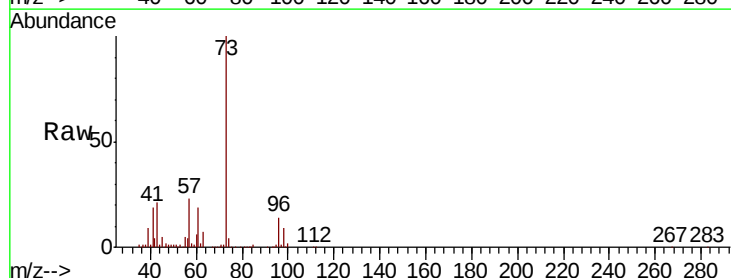
Tgt Ion: 73 Resp: 279586

Ion Ratio Lower Upper

73 100

43 20.4 16.2 24.4

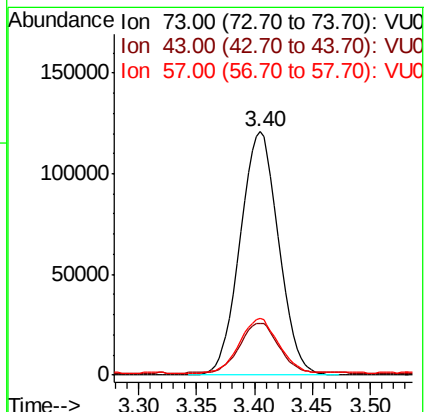
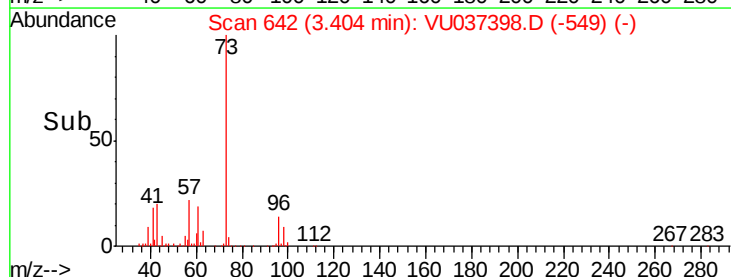
57 22.8 17.3 25.9

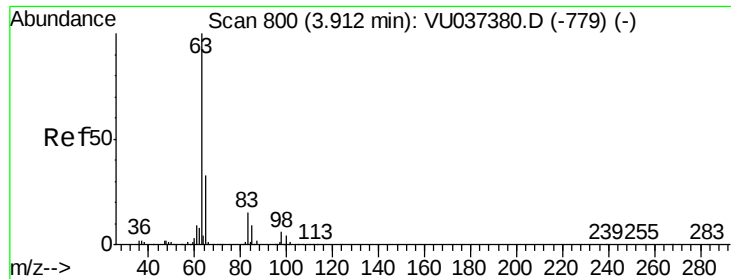


Abundance Ion 73.00 (72.70 to 73.70): VU037398.D (-549) (-)

Ion 43.00 (42.70 to 43.70): VU037398.D (-549) (-)

Ion 57.00 (56.70 to 57.70): VU037398.D (-549) (-)

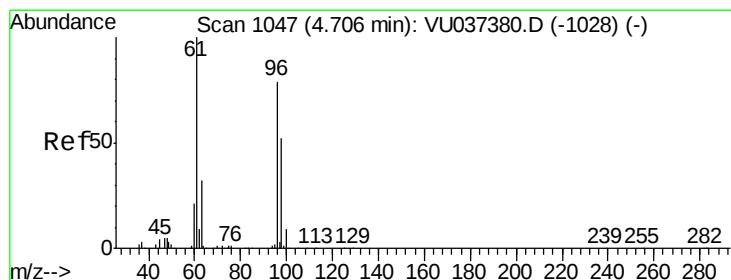
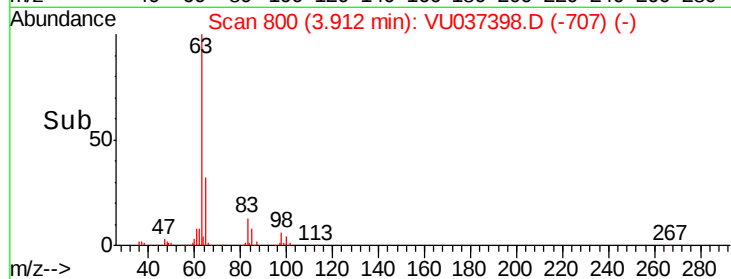
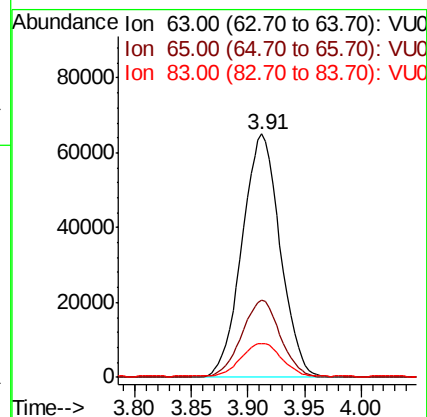
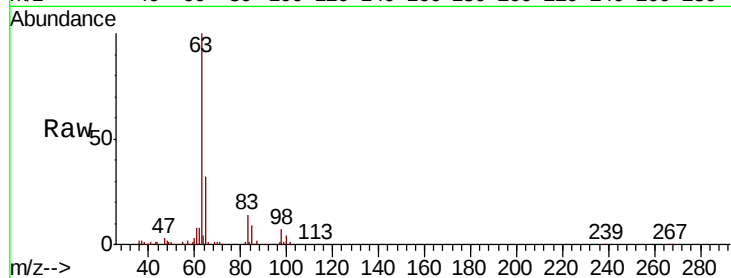




#19
 1,1-Dichloroethane
 Concen: 39.147 ug/L
 RT: 3.91 min Scan# 800
 Delta R.T. 0.00 min
 Lab File: VU037398.D
 Acq: 28 Mar 2020 02:42

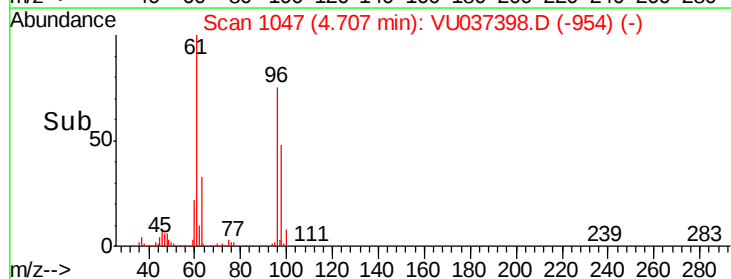
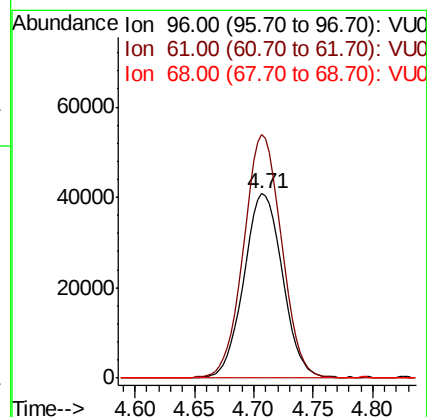
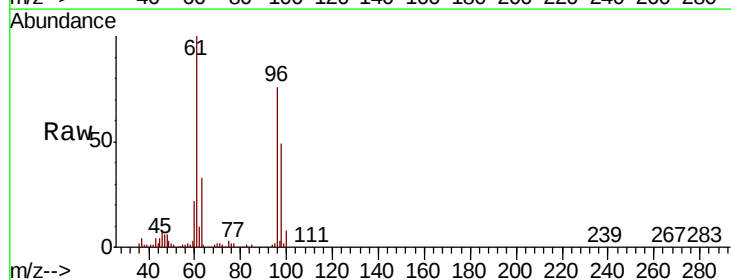
Instrument :
 MSVOA_U
 ClientSampleId :

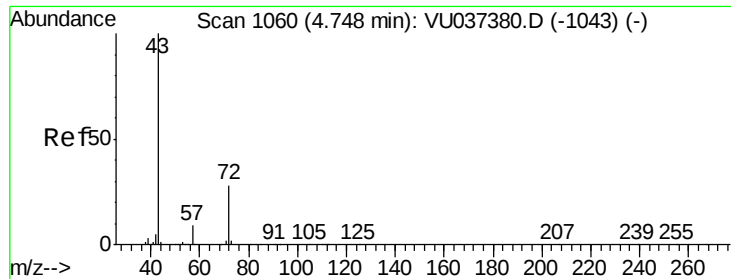
Tot Ion	Ratio	Lower	Upper
63	100		
65	31.8	22.4	41.6
83	13.8	10.6	19.6



#20
 cis-1,2-Dichloroethene
 Concen: 38.975 ug/L
 RT: 4.71 min Scan# 1047
 Delta R.T. 0.00 min
 Lab File: VU037398.D
 Acq: 28 Mar 2020 02:42

Tgt Ion	Ratio	Lower	Upper
96	100		
61	132.2	89.4	166.0
68	0.0	0.3	0.7#

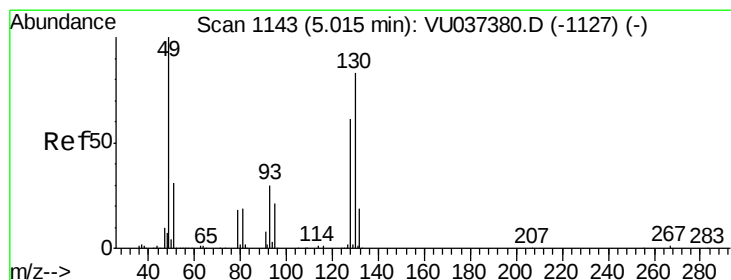
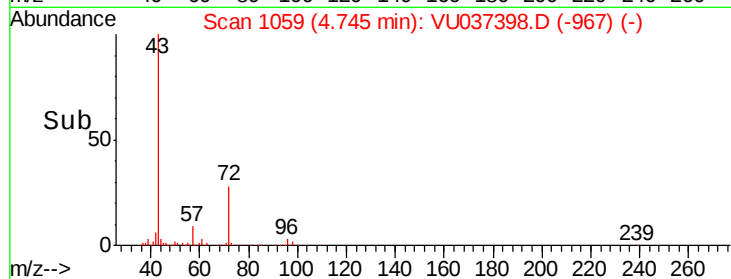
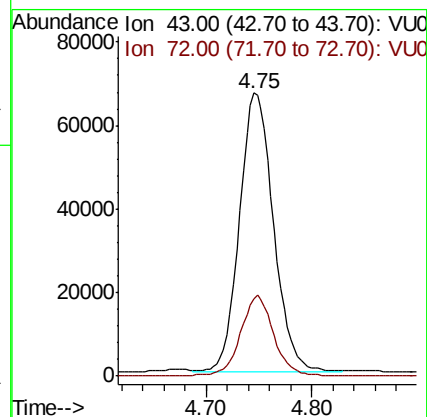
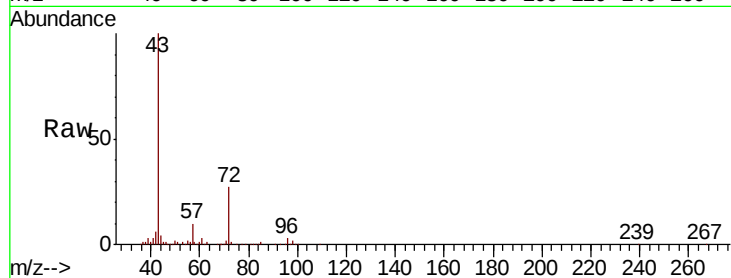




#22
2-Butanone
Concen: 80.166 ug/L
RT: 4.75 min Scan# 1059
Delta R.T. -0.00 min
Lab File: VU037398.D
Acq: 28 Mar 2020 02:42

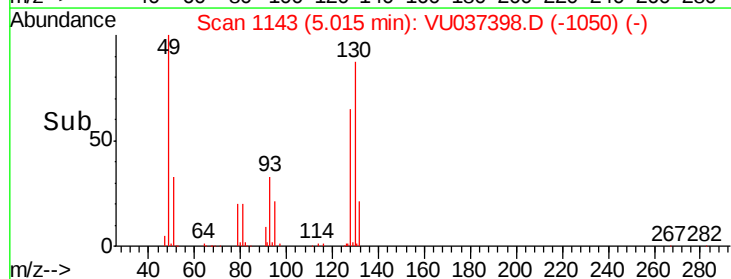
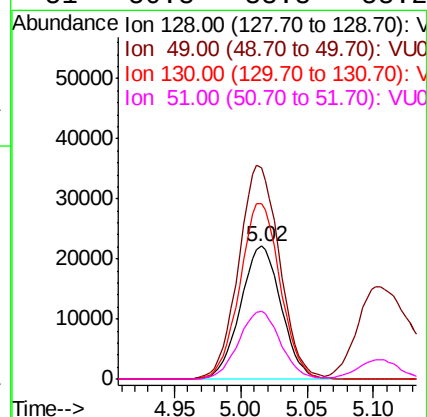
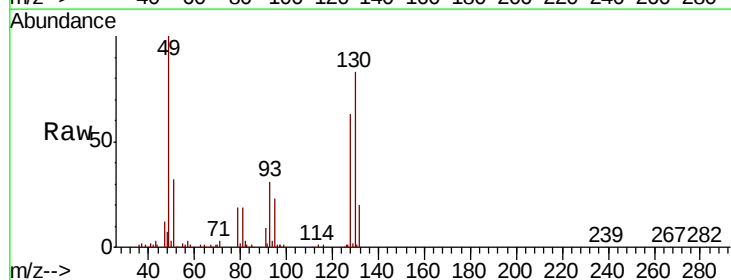
Instrument :
MSVOA_U
ClientSampleId :

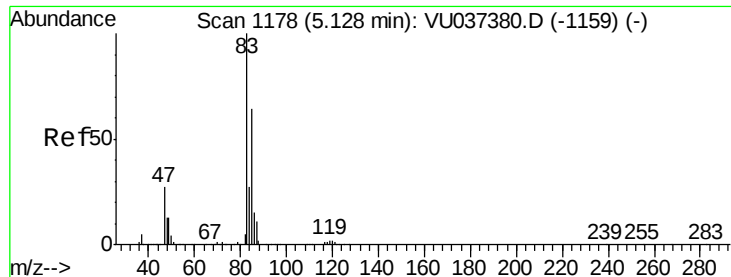
Tot Ion: 43 Resp: 149373
Ion Ratio Lower Upper
43 100
72 28.1 14.1 42.2



#23
Bromochloromethane
Concen: 38.599 ug/L
RT: 5.02 min Scan# 1143
Delta R.T. 0.00 min
Lab File: VU037398.D
Acq: 28 Mar 2020 02:42

Tgt Ion:128 Resp: 47260
Ion Ratio Lower Upper
128 100
49 159.2 102.6 190.6
130 132.5 86.7 161.1
51 50.8 38.8 58.2

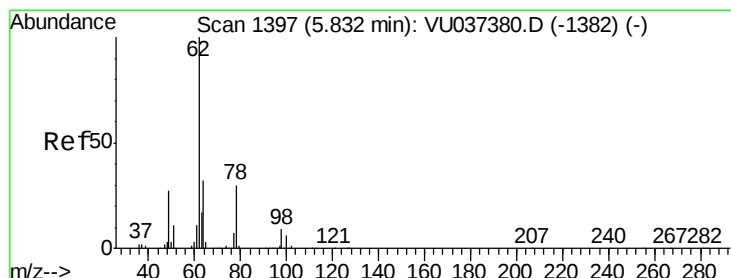
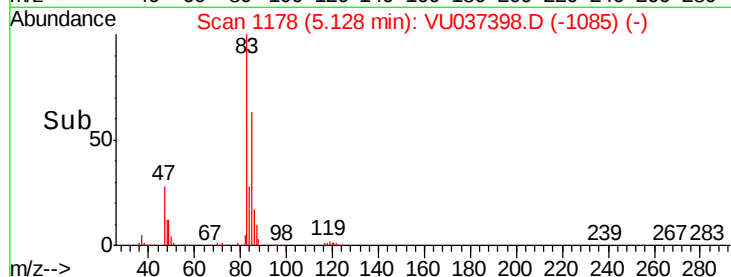
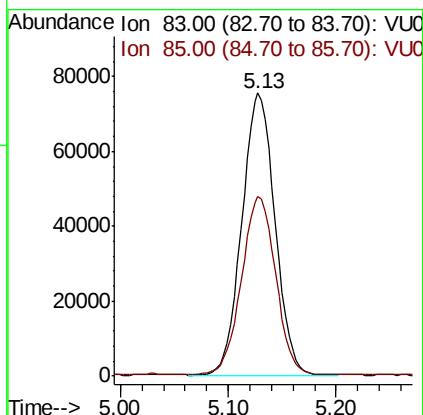
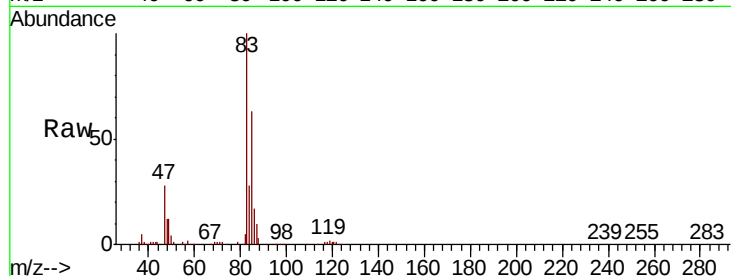




#25
Chloroform
Concen: 40.206 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VU037398.D
Acq: 28 Mar 2020 02:42

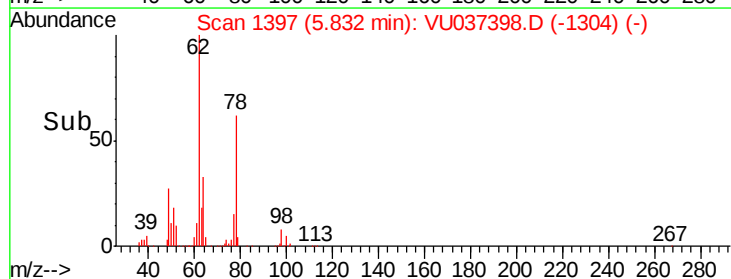
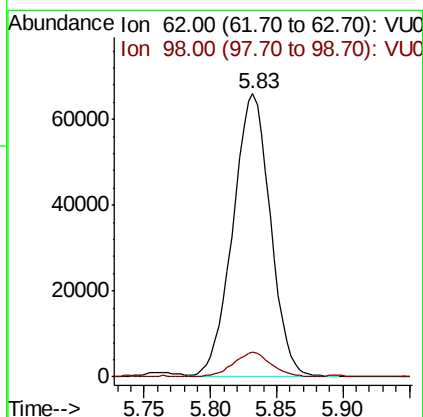
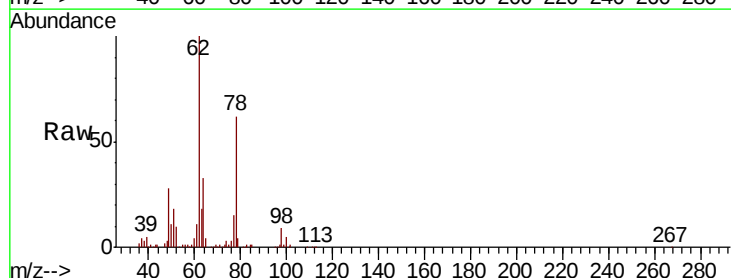
Instrument :
MSVOA_U
ClientSampleId :

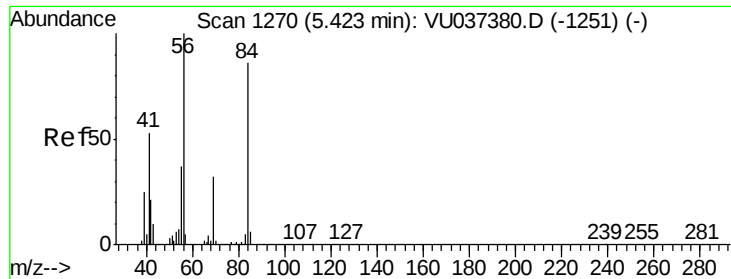
Tot Ion: 83 Resp: 160388
Ion Ratio Lower Upper
83 100
85 63.4 45.1 83.7



#27
1,2-Dichloroethane
Concen: 40.876 ug/L
RT: 5.83 min Scan# 1397
Delta R.T. 0.00 min
Lab File: VU037398.D
Acq: 28 Mar 2020 02:42

Tgt Ion: 62 Resp: 129776
Ion Ratio Lower Upper
62 100
98 8.7 7.7 11.5

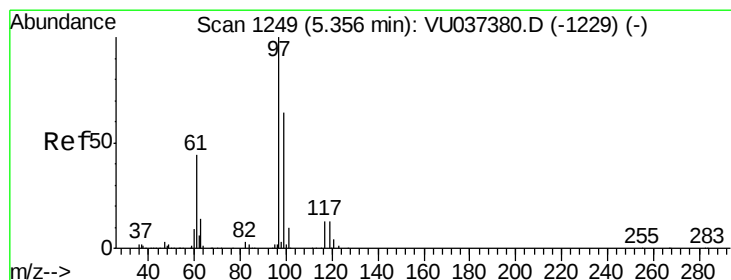
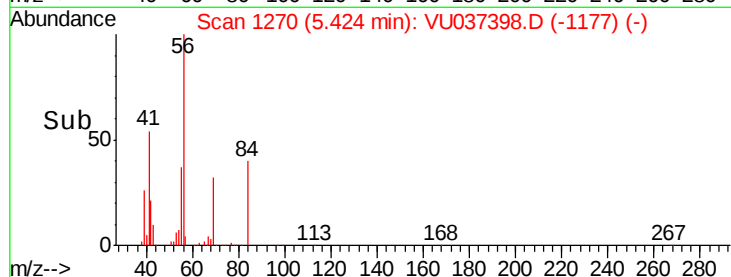
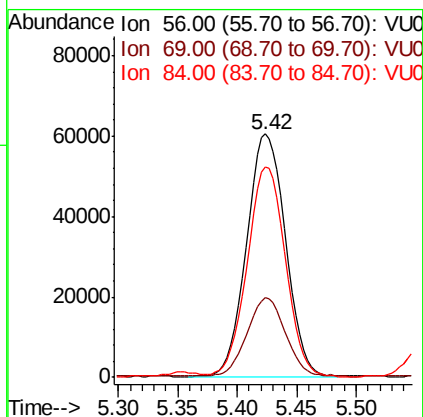
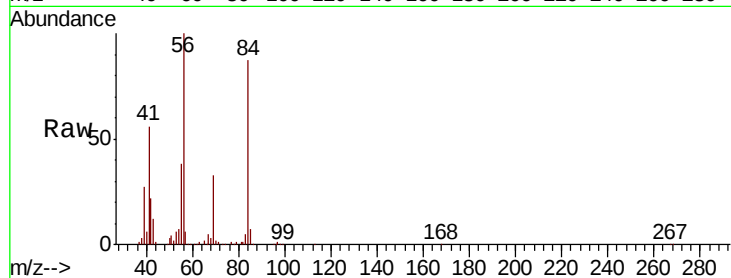




#29
Cyclohexane
Concen: 38.856 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. 0.00 min
Lab File: VU037398.D
Acq: 28 Mar 2020 02:42

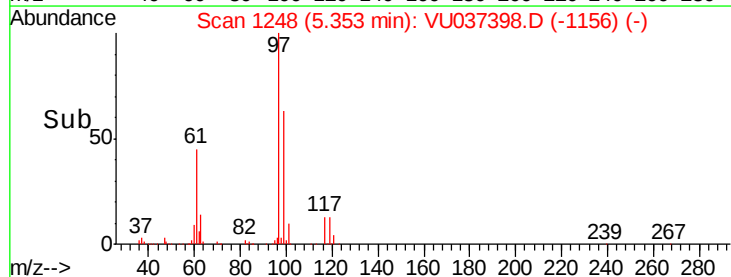
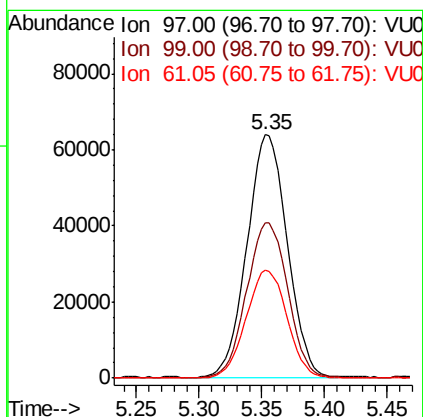
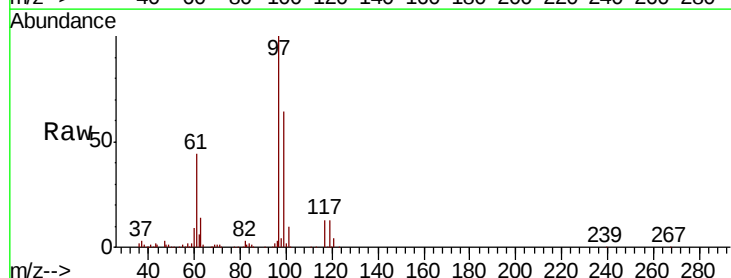
Instrument :
MSVOA_U
ClientSampleId :

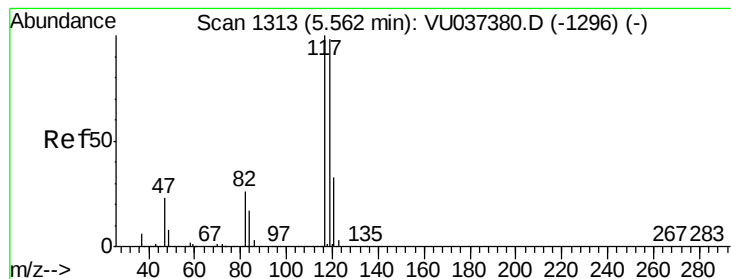
Tot Ion: 56 Resp: 136814
Ion Ratio Lower Upper
56 100
69 31.7 25.8 38.6
84 85.3 70.1 105.1



#30
1,1,1-Trichloroethane
Concen: 39.316 ug/L
RT: 5.35 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VU037398.D
Acq: 28 Mar 2020 02:42

Tgt Ion: 97 Resp: 143121
Ion Ratio Lower Upper
97 100
99 65.5 51.4 77.0
61 45.1 35.1 52.7





#31

Carbon tetrachloride

Concen: 40.271 ug/L

RT: 5.56 min Scan# 1313

Delta R.T. 0.00 min

Lab File: VU037398.D

Acq: 28 Mar 2020 02:42

Instrument :

MSVOA_U

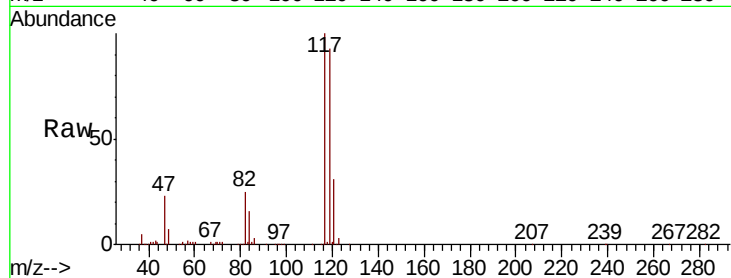
ClientSampleId :

Tot Ion:117 Resp: 126627

Ion Ratio Lower Upper

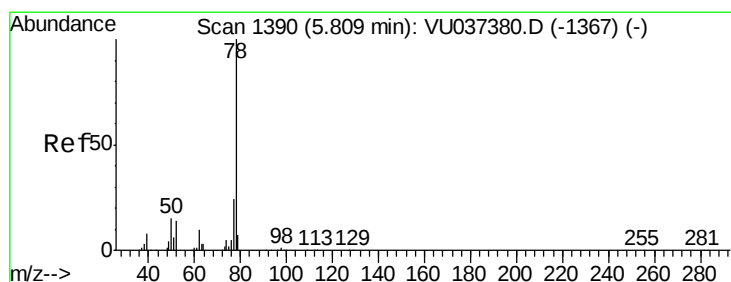
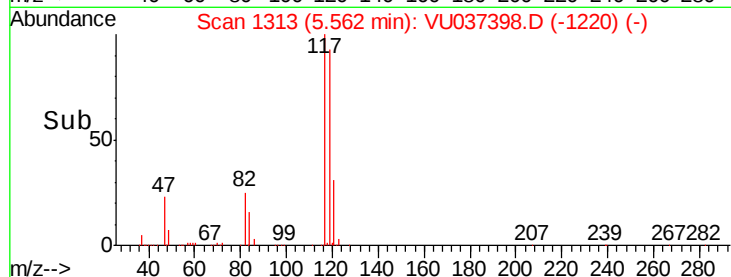
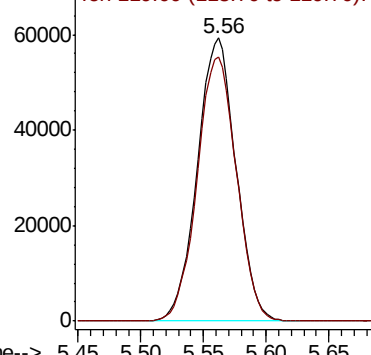
117 100

119 95.2 77.7 116.5



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 38.885 ug/L

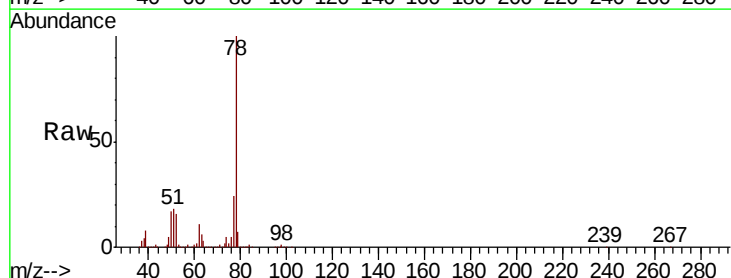
RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

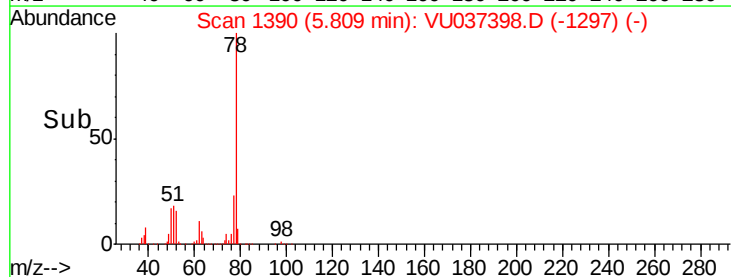
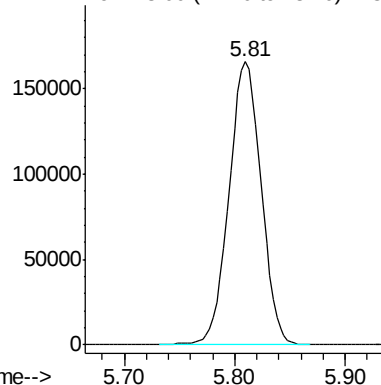
Lab File: VU037398.D

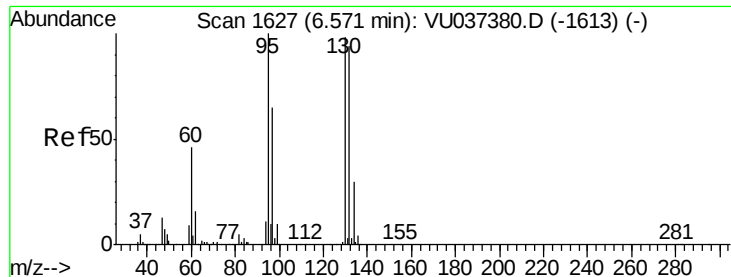
Acq: 28 Mar 2020 02:42

Tgt Ion: 78 Resp: 335558



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 38.659 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. 0.00 min

Lab File: VU037398.D

Acq: 28 Mar 2020 02:42

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 89150

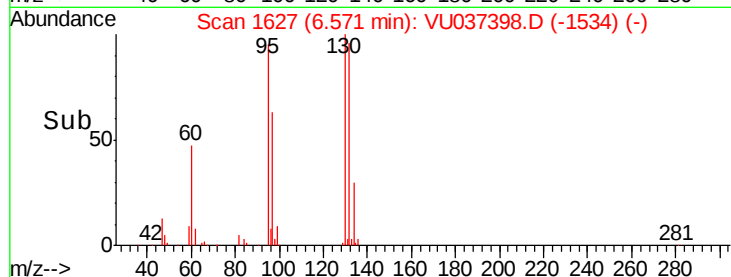
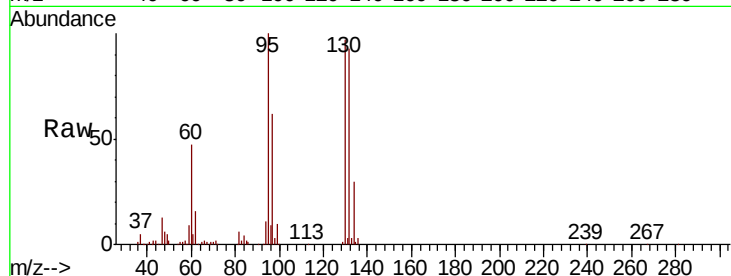
Ion Ratio Lower Upper

95 100

97 62.0 46.1 85.5

132 93.2 66.3 123.1

130 97.2 69.0 128.1

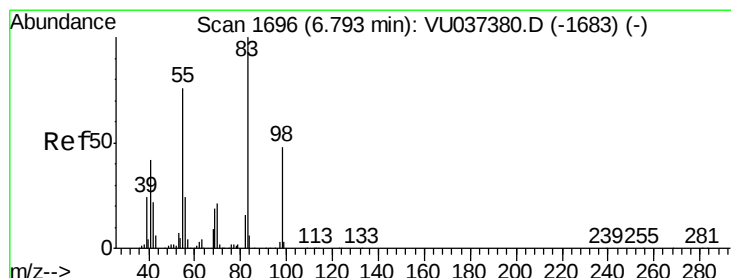
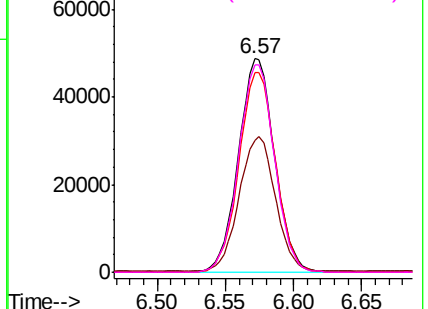


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 37.181 ug/L

RT: 6.79 min Scan# 1696

Delta R.T. 0.00 min

Lab File: VU037398.D

Acq: 28 Mar 2020 02:42

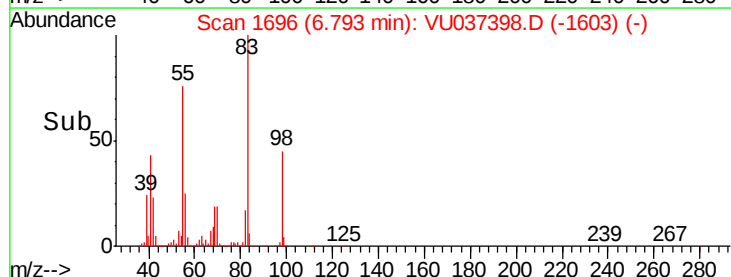
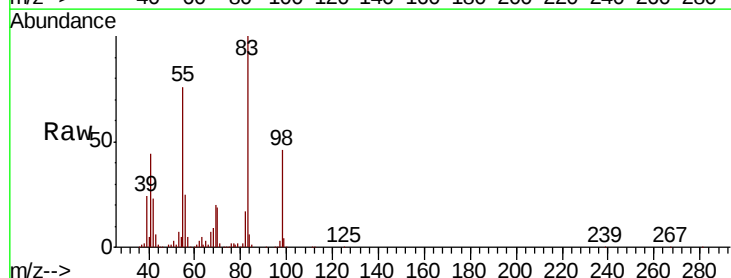
Tgt Ion: 83 Resp: 135051

Ion Ratio Lower Upper

83 100

55 78.1 60.1 90.1

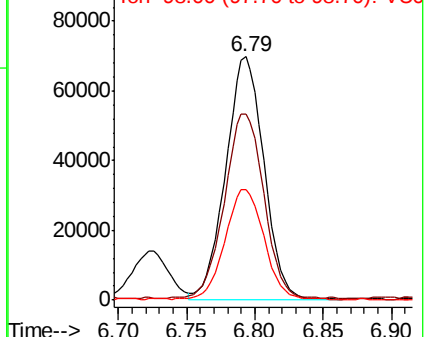
98 46.3 36.9 55.3

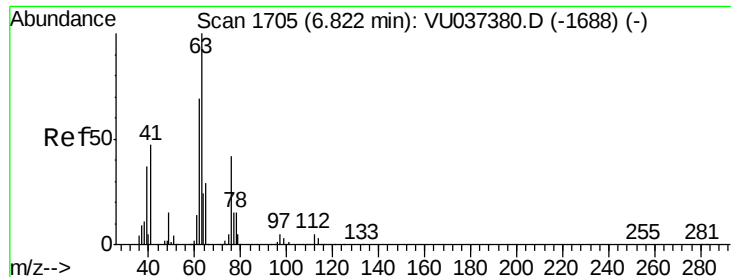


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

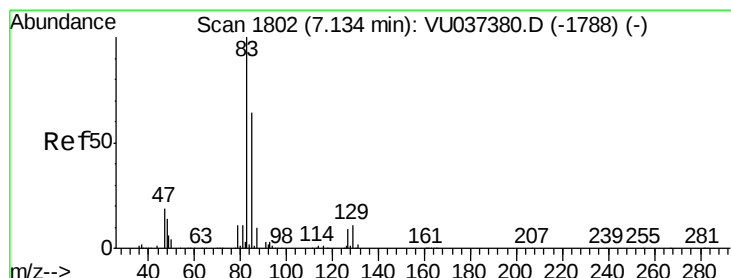
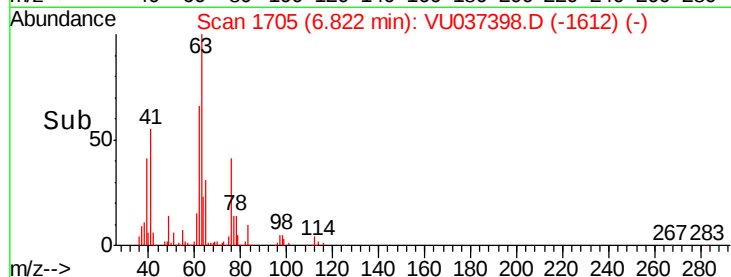
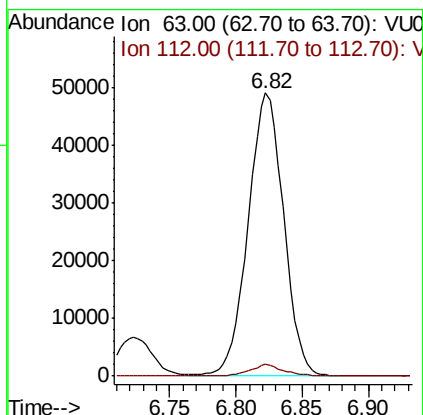
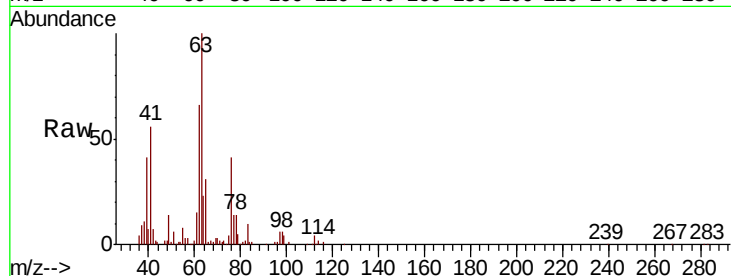




#37
 1,2-Dichloropropane
 Concen: 39.889 ug/L
 RT: 6.82 min Scan# 1705
 Delta R.T. 0.00 min
 Lab File: VU037398.D
 Acq: 28 Mar 2020 02:42

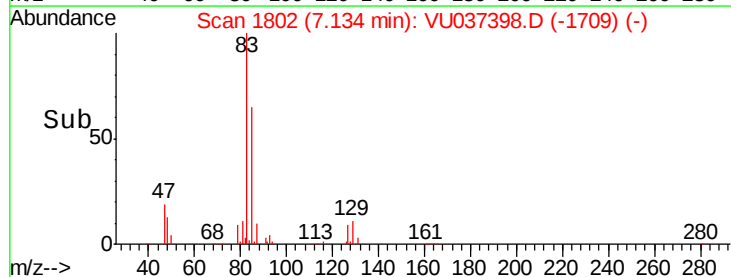
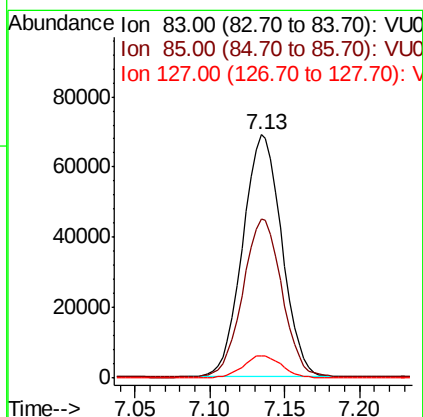
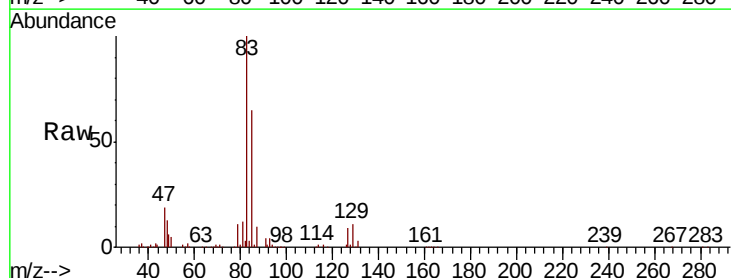
Instrument :
 MSVOA_U
 ClientSampled :

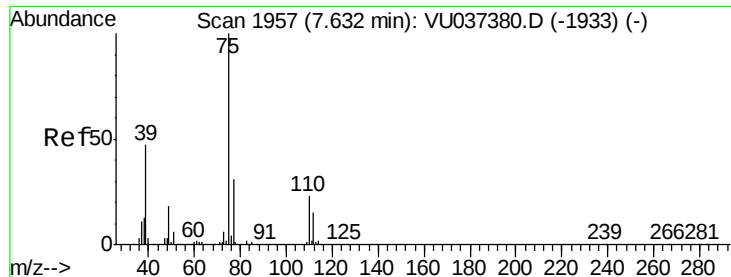
Tot Ion: 63 Resp: 91393
 Ion Ratio Lower Upper
 63 100
 112 3.9 3.4 5.0



#38
 Bromodichloromethane
 Concen: 39.088 ug/L
 RT: 7.13 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VU037398.D
 Acq: 28 Mar 2020 02:42

Tgt Ion: 83 Resp: 125499
 Ion Ratio Lower Upper
 83 100
 85 65.1 44.2 82.2
 127 9.4 7.8 11.6



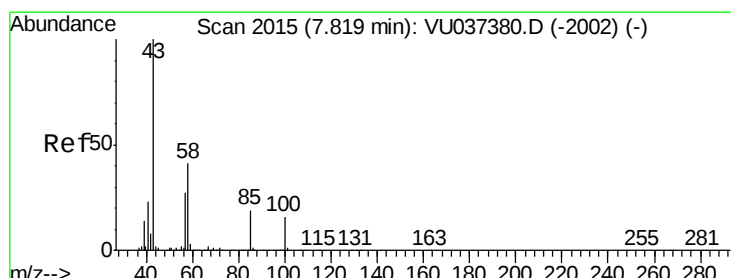
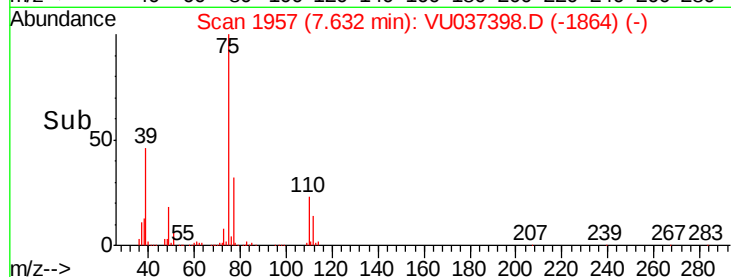
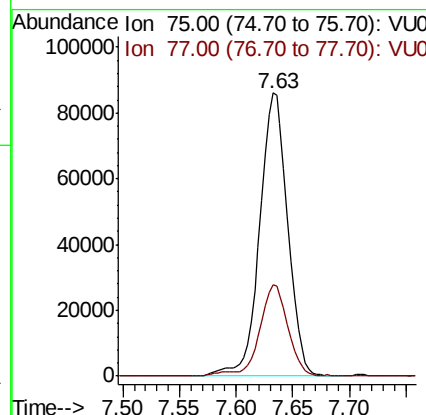
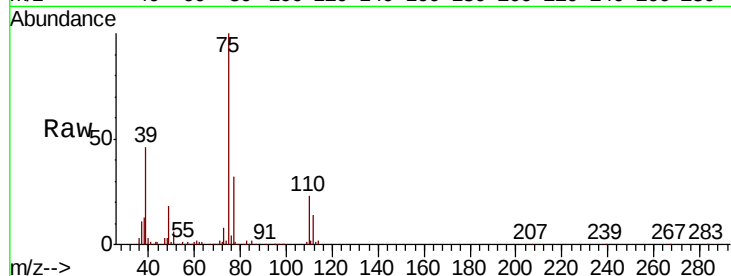


#39

cis-1,3-Dichloropropene
 Concen: 38.449 ug/L
 RT: 7.63 min Scan# 1957
 Delta R.T. 0.00 min
 Lab File: VU037398.D
 Acq: 28 Mar 2020 02:42

Instrument :
 MSVOA_U
 ClientSampleId :

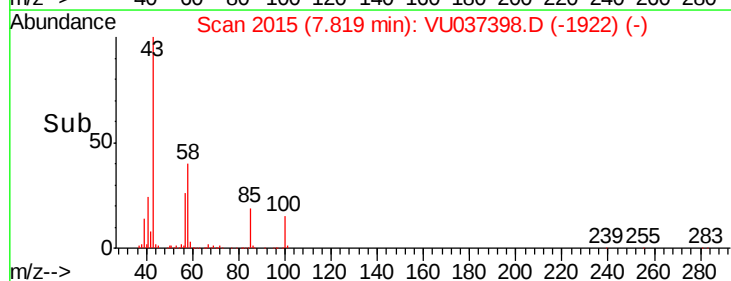
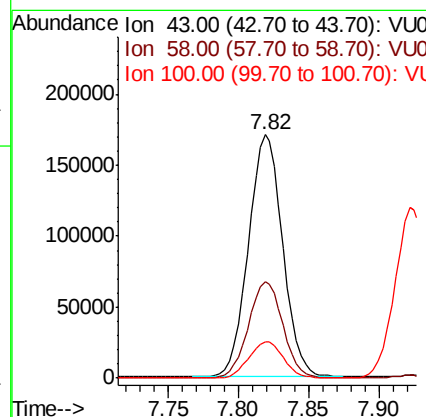
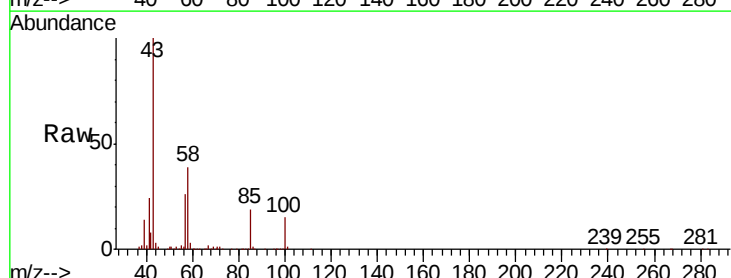
Tot Ion: 75 Resp: 148317
 Ion Ratio Lower Upper
 75 100
 77 32.1 22.5 41.9

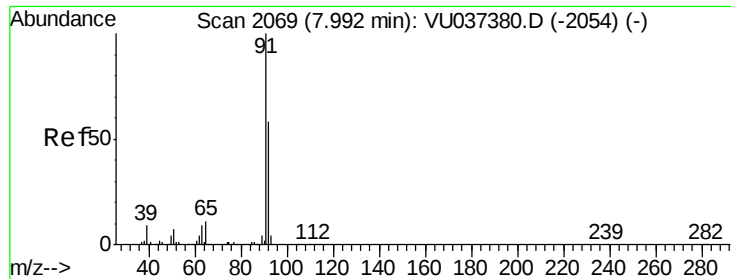


#40

4-Methyl-2-pentanone
 Concen: 80.128 ug/L
 RT: 7.82 min Scan# 1515
 Delta R.T. 0.00 min
 Lab File: VU037398.D
 Acq: 28 Mar 2020 02:42

Tgt Ion: 43 Resp: 290166
 Ion Ratio Lower Upper
 43 100
 58 40.0 0.0 0.0#
 100 15.3 0.0 0.0#





#42

Toluene

Concen: 39.504 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. 0.00 min

Lab File: VU037398.D

Acq: 28 Mar 2020 02:42

Instrument :

MSVOA_U

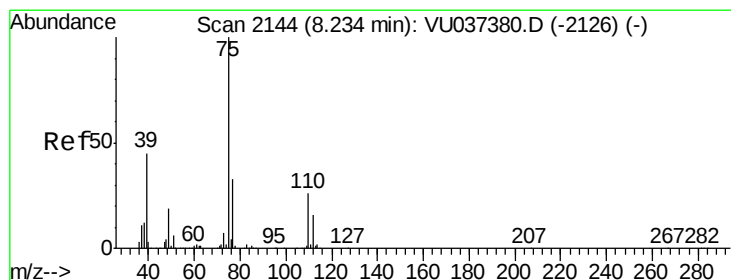
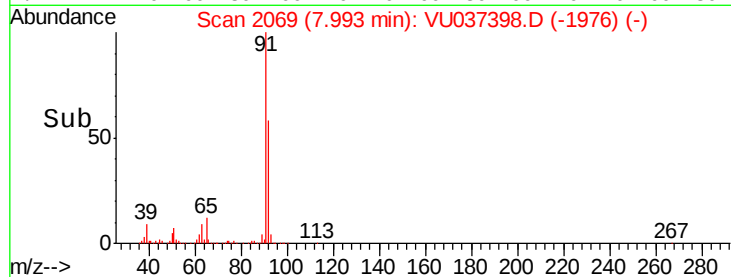
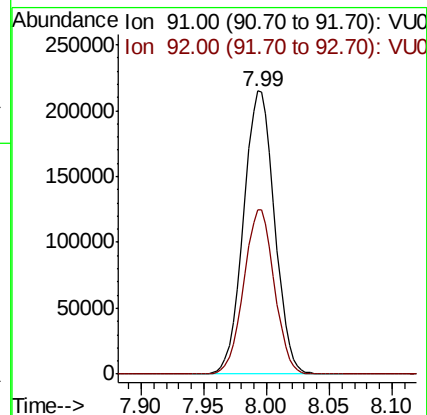
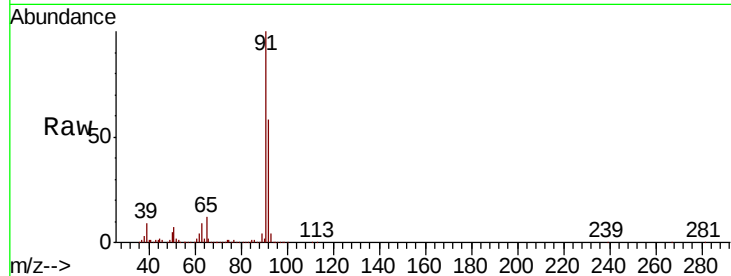
ClientSampleId :

Tot Ion: 91 Resp: 369107

Ion Ratio Lower Upper

91 100

92 58.3 40.9 75.9



#44

trans-1,3-Dichloropropene

Concen: 38.000 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. 0.00 min

Lab File: VU037398.D

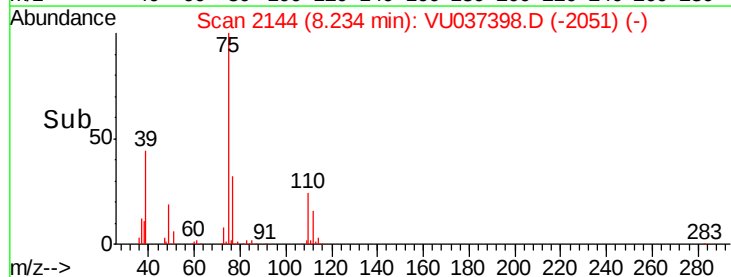
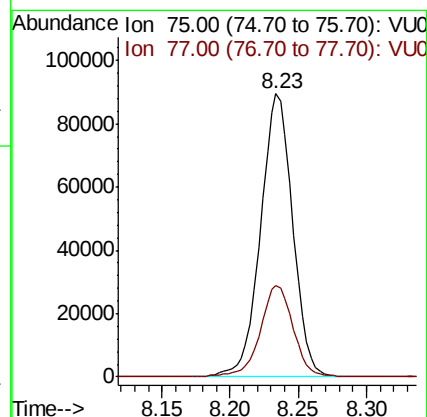
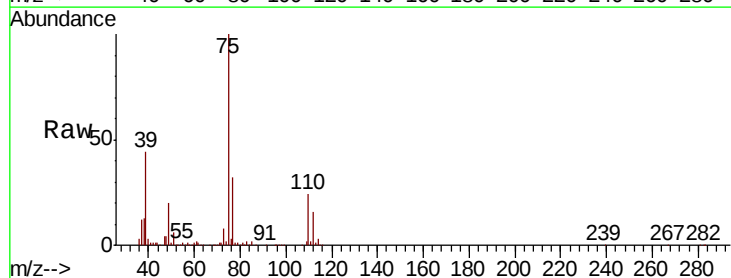
Acq: 28 Mar 2020 02:42

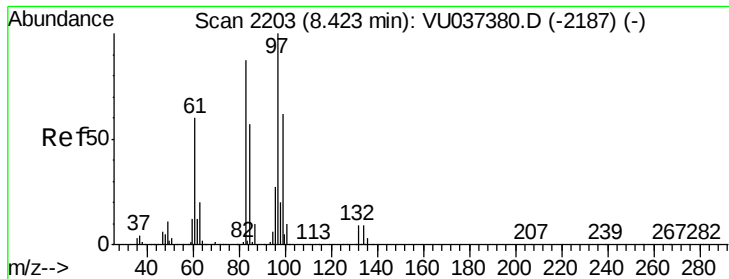
Tgt Ion: 75 Resp: 146156

Ion Ratio Lower Upper

75 100

77 32.5 21.9 40.7

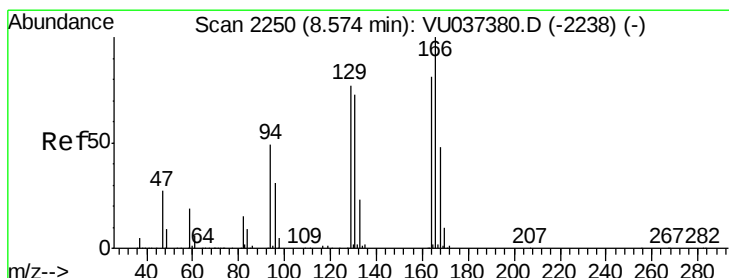
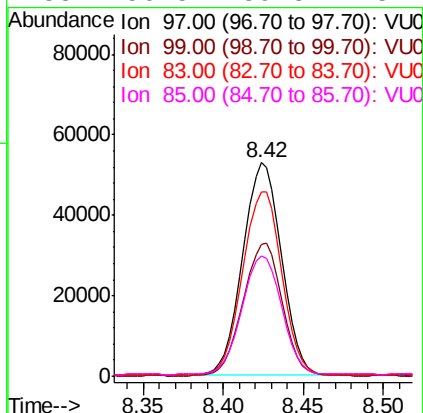
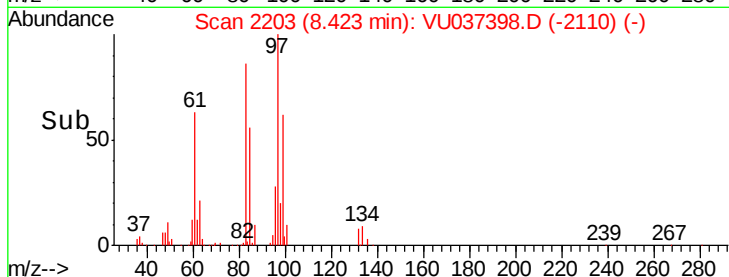
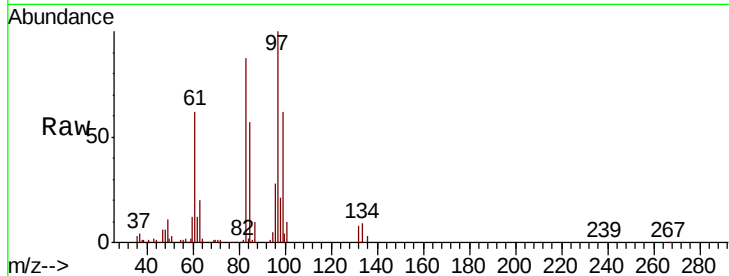




#45
 1,1,2-Trichloroethane
 Concen: 39.513 ug/L
 RT: 8.42 min Scan# 2203
 Delta R.T. 0.00 min
 Lab File: VU037398.D
 Acq: 28 Mar 2020 02:42

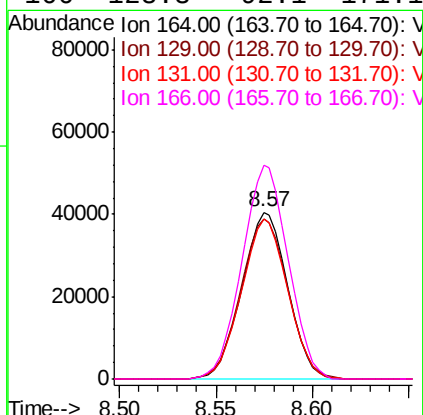
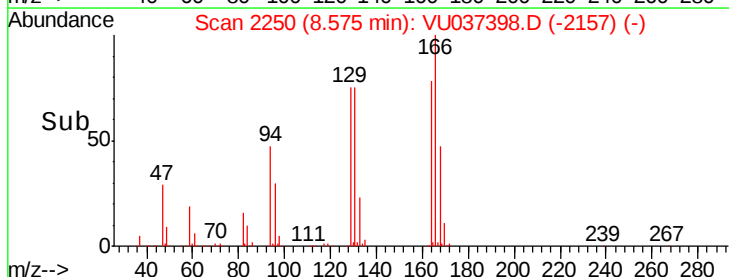
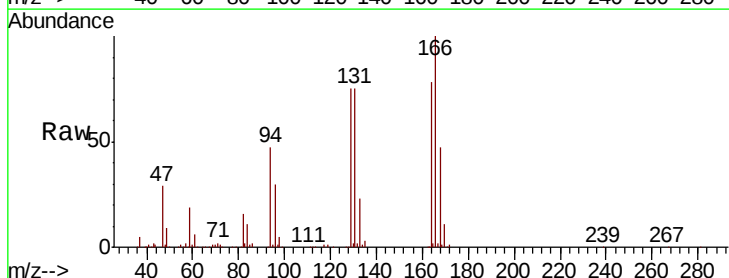
Instrument :
 MSVOA_U
 ClientSampleId :

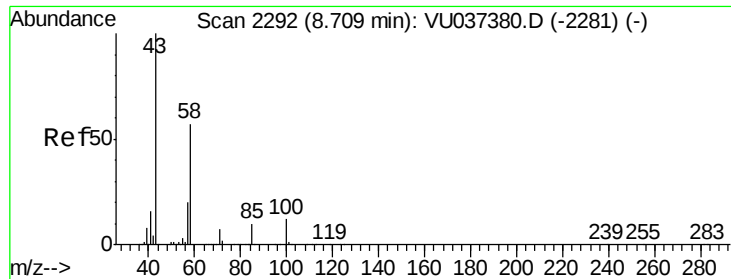
Tot Ion: 97 Resp: 87711
 Ion Ratio Lower Upper
 97 100
 99 62.0 42.4 78.6
 83 86.6 61.3 113.9
 85 56.5 39.3 73.1



#46
 Tetrachloroethene
 Concen: 37.589 ug/L
 RT: 8.57 min Scan# 2250
 Delta R.T. 0.00 min
 Lab File: VU037398.D
 Acq: 28 Mar 2020 02:42

Tgt Ion: 164 Resp: 66555
 Ion Ratio Lower Upper
 164 100
 129 96.0 67.8 126.0
 131 96.4 66.1 122.8
 166 128.3 92.1 171.1

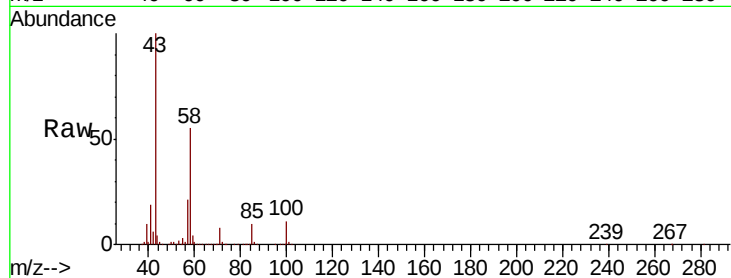




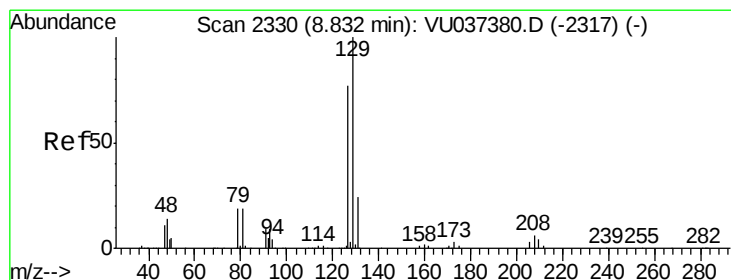
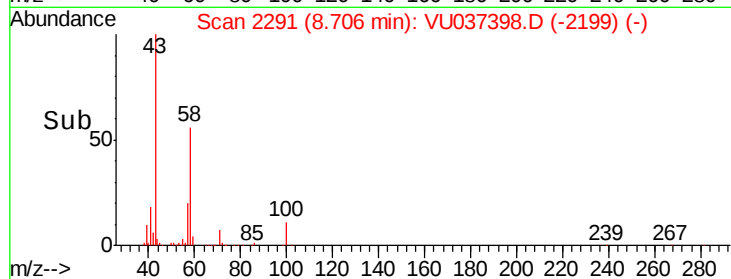
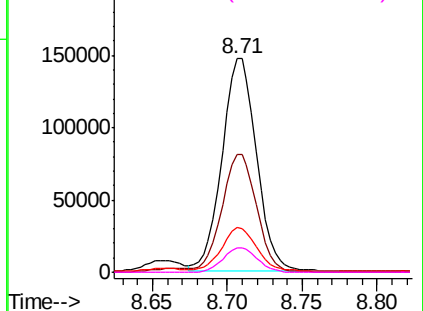
#48
2-Hexanone
Concen: 82.586 ug/L
RT: 8.71 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU037398.D
Acq: 28 Mar 2020 02:42

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	43	Resp:	235528
Ion	Ratio	Lower	Upper
43	100		
58	55.9	45.3	67.9
57	20.6	16.2	24.2
100	11.5	9.7	14.5

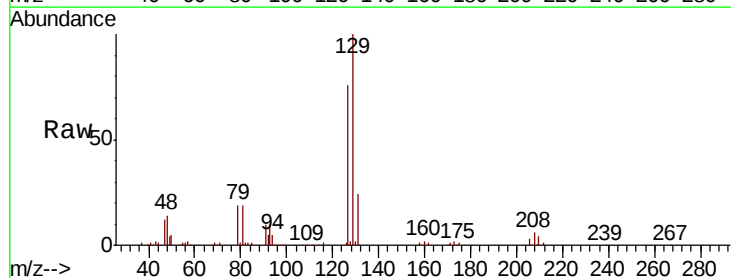


Abundance Ion 43.00 (42.70 to 43.70): VU037398.D (-2281) (-)
Ion 58.00 (57.70 to 58.70): VU037398.D (-2281) (-)
Ion 57.00 (56.70 to 57.70): VU037398.D (-2281) (-)
Ion 100.00 (99.70 to 100.70): VU037398.D (-2281) (-)

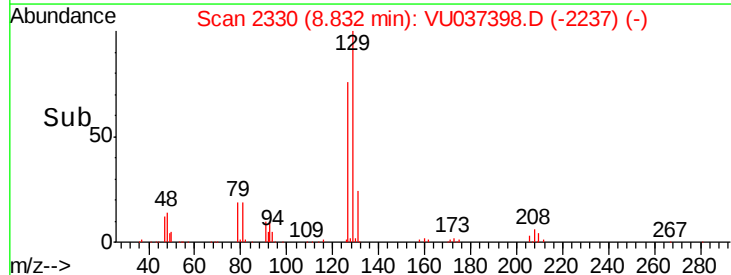
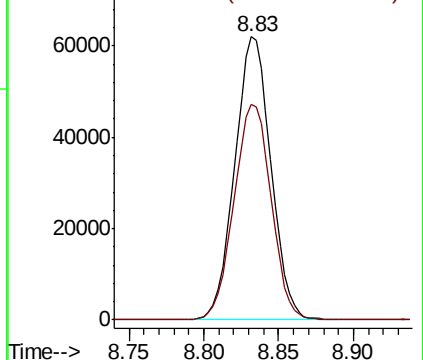


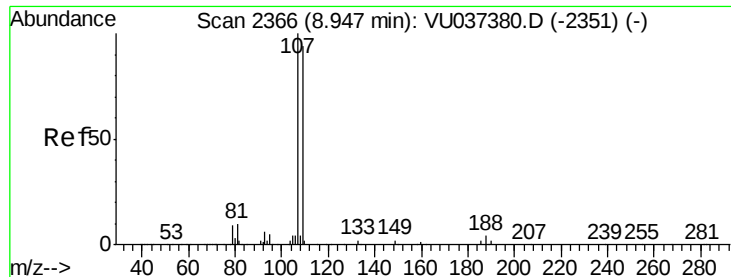
#49
Dibromochloromethane
Concen: 38.912 ug/L
RT: 8.83 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU037398.D
Acq: 28 Mar 2020 02:42

Tgt Ion:	129	Resp:	104197
Ion	Ratio	Lower	Upper
129	100		
127	76.2	53.9	100.1



Abundance Ion 129.00 (128.70 to 129.70): VU037398.D (-2317) (-)
Ion 127.00 (126.70 to 127.70): VU037398.D (-2317) (-)

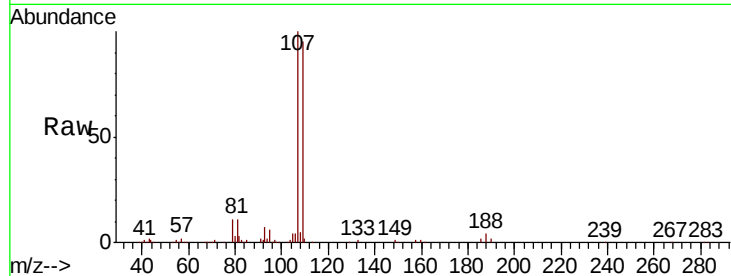




#50
 1,2-Dibromoethane
 Concen: 38.766 ug/L
 RT: 8.95 min Scan# 2366
 Delta R.T. 0.00 min
 Lab File: VU037398.D
 Acq: 28 Mar 2020 02:42

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.2	65.1	120.9
188	3.8	3.0	4.4

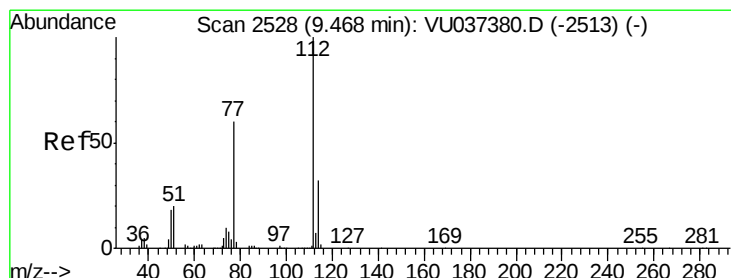
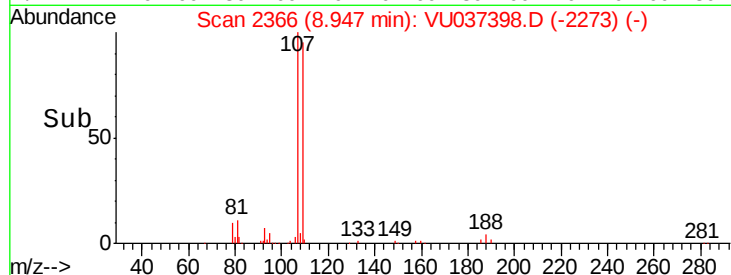
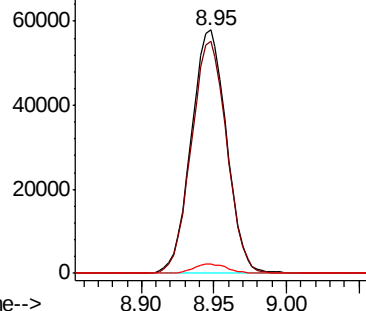


Abundance

Ion 107.00 (106.70 to 107.70): V

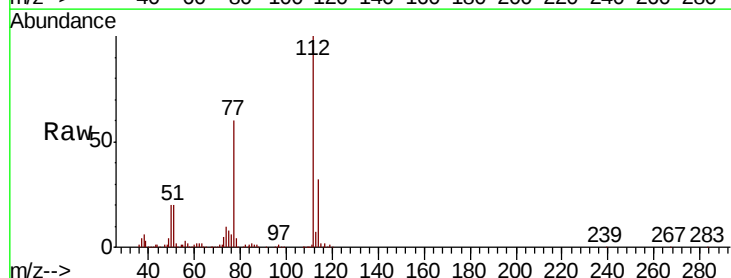
Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51
 Chlorobenzene
 Concen: 39.386 ug/L
 RT: 9.47 min Scan# 2528
 Delta R.T. 0.00 min
 Lab File: VU037398.D
 Acq: 28 Mar 2020 02:42

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.2	22.3	41.5
77	60.3	48.6	72.8

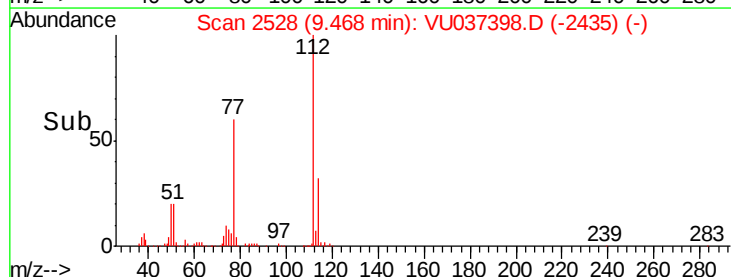
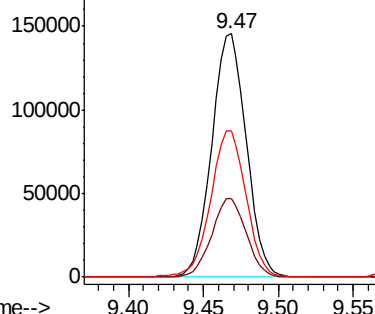


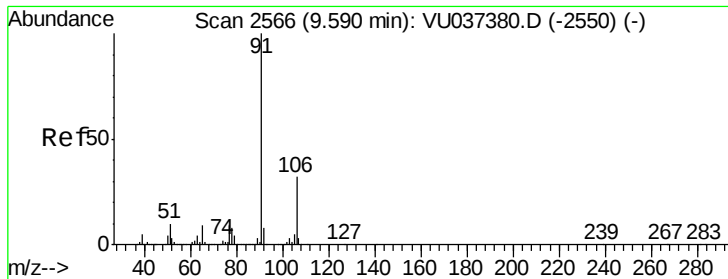
Abundance

Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU

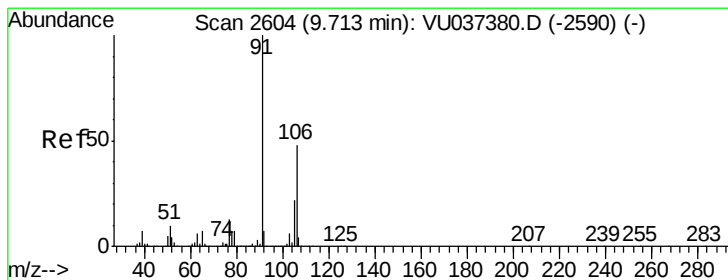
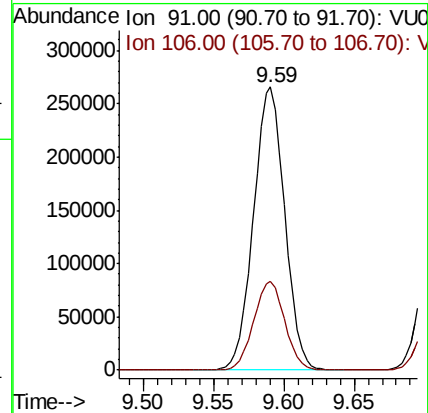
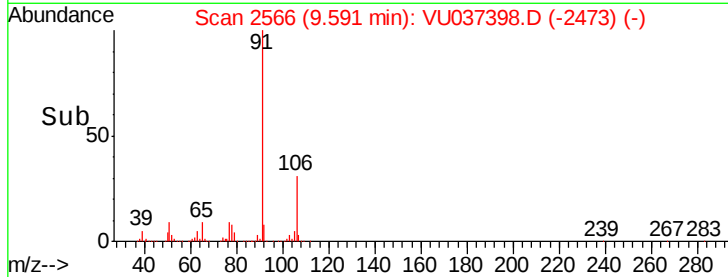
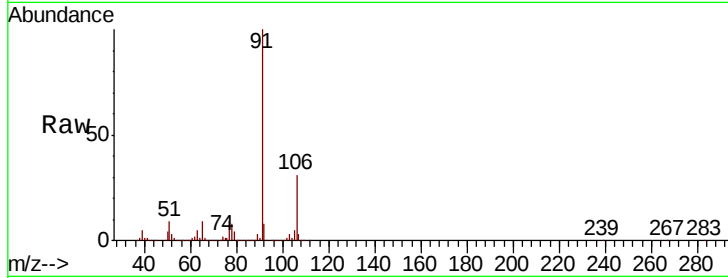




#52
Ethylbenzene
Concen: 39.271 ug/L
RT: 9.59 min Scan# 2566
Delta R.T. 0.00 min
Lab File: VU037398.D
Acq: 28 Mar 2020 02:42

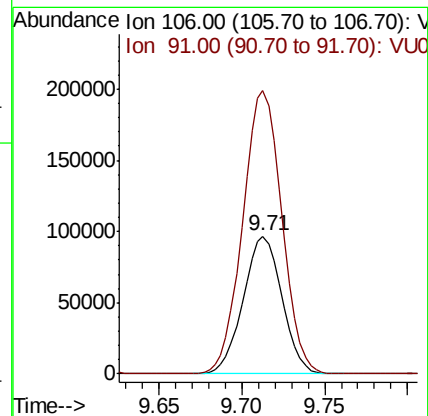
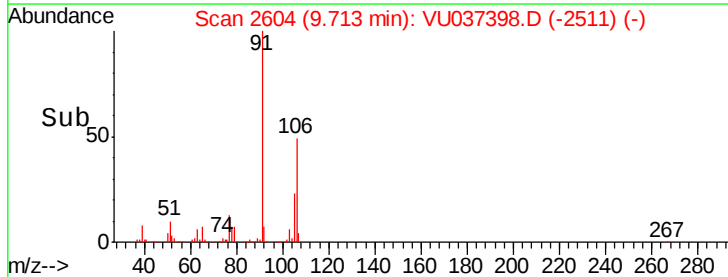
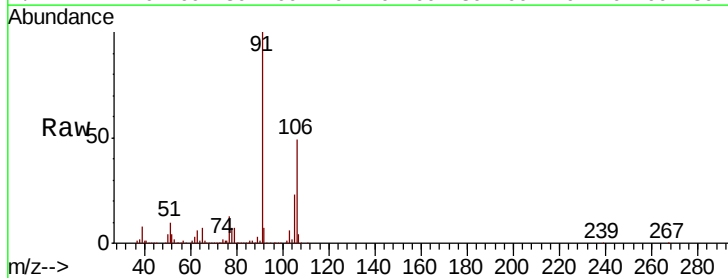
Instrument :
MSVOA_U
ClientSampled :

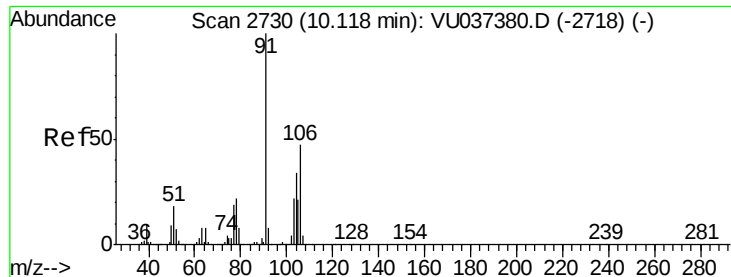
Tot Ion: 91 Resp: 412244
Ion Ratio Lower Upper
91 100
106 31.3 21.5 39.9



#53
m,p-Xylene
Concen: 39.072 ug/L
RT: 9.71 min Scan# 2604
Delta R.T. 0.00 min
Lab File: VU037398.D
Acq: 28 Mar 2020 02:42

Tgt Ion: 106 Resp: 156954
Ion Ratio Lower Upper
106 100
91 205.6 146.5 272.1





#54

o-xylene

Concen: 39.886 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. 0.00 min

Lab File: VU037398.D

Acq: 28 Mar 2020 02:42

Instrument :

MSVOA_U

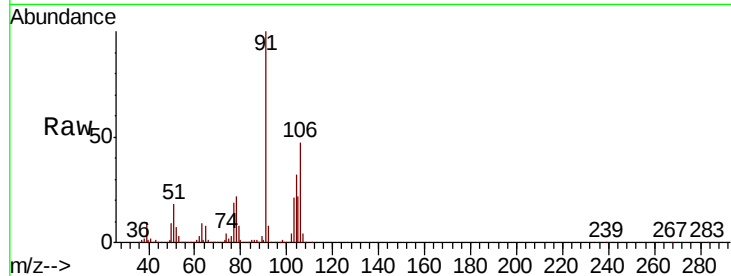
ClientSampled :

Tot Ion:106 Resp: 156153

Ion Ratio Lower Upper

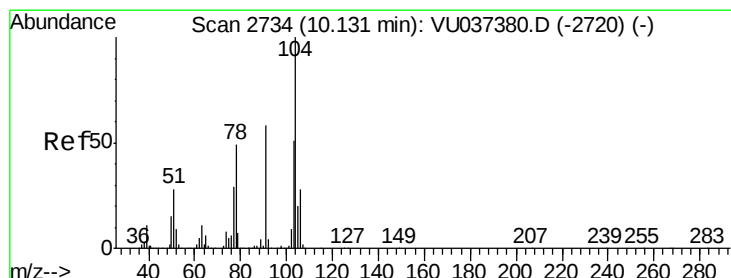
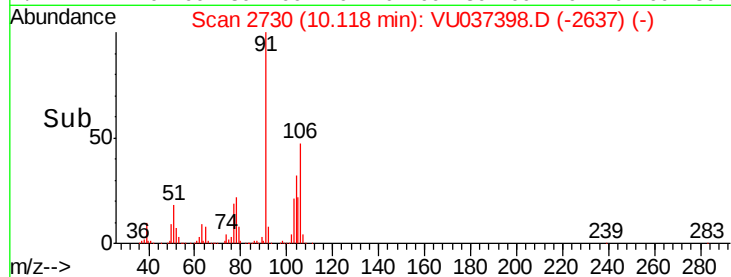
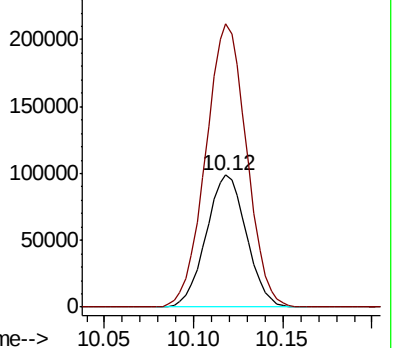
106 100

91 214.6 153.6 285.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 39.200 ug/L

RT: 10.13 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VU037398.D

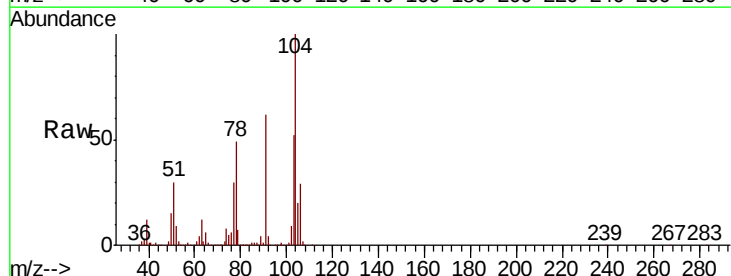
Acq: 28 Mar 2020 02:42

Tgt Ion:104 Resp: 269479

Ion Ratio Lower Upper

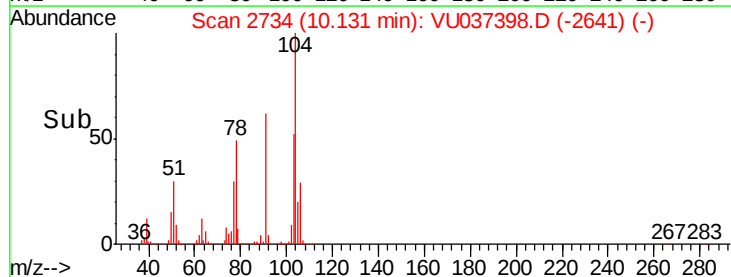
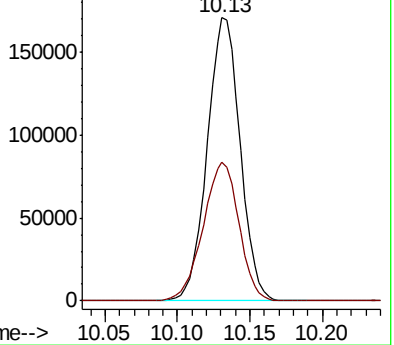
104 100

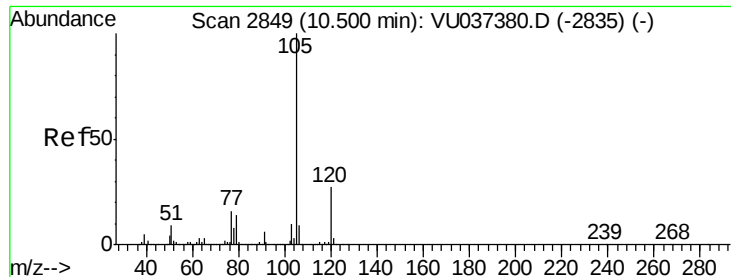
78 49.1 34.0 63.2



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 39.523 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. 0.00 min

Lab File: VU037398.D

Acq: 28 Mar 2020 02:42

Instrument :

MSVOA_U

ClientSampleId :

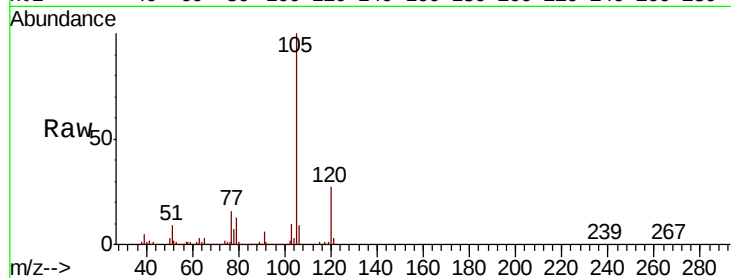
Tot Ion:105 Resp: 409559

Ion Ratio Lower Upper

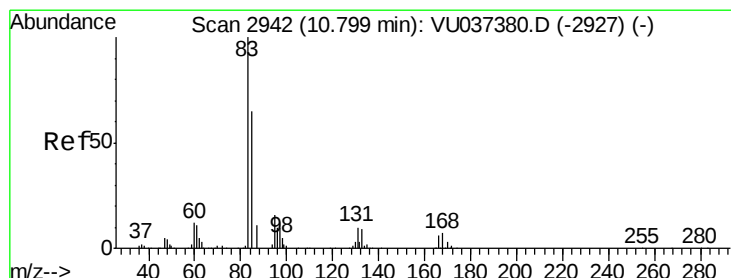
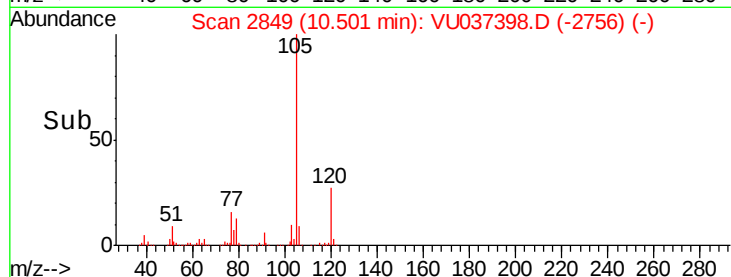
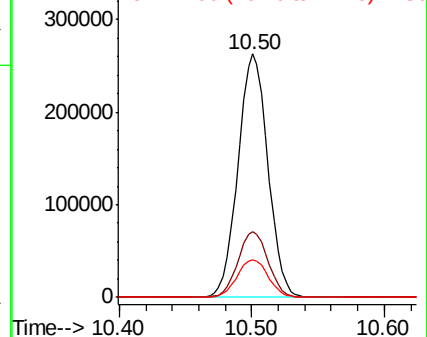
105 100

120 27.1 21.5 32.3

77 16.1 12.6 19.0



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V
Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 38.243 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. 0.00 min

Lab File: VU037398.D

Acq: 28 Mar 2020 02:42

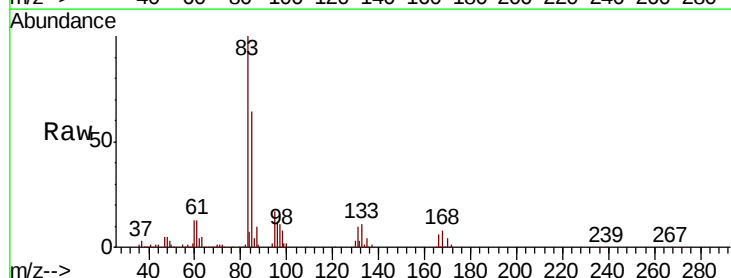
Tgt Ion: 83 Resp: 149040

Ion Ratio Lower Upper

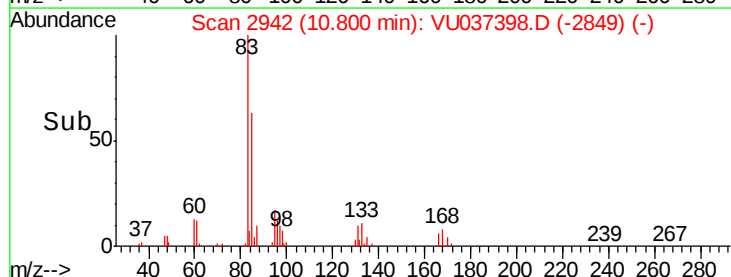
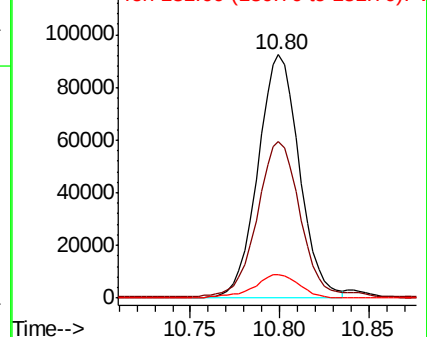
83 100

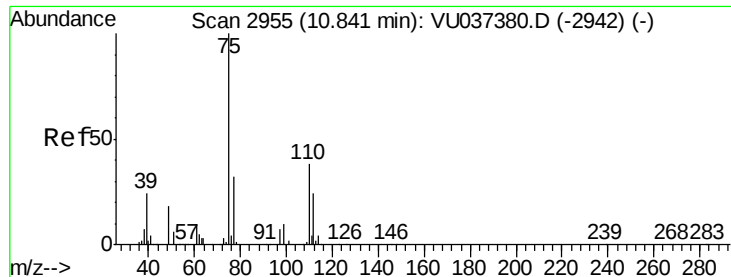
85 64.1 46.1 85.5

131 9.6 8.0 12.0



Abundance Ion 83.00 (82.70 to 83.70): V
Ion 85.00 (84.70 to 85.70): V
Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 40.021 ug/L

RT: 10.84 min Scan# 2955

Delta R.T. 0.00 min

Lab File: VU037398.D

Acq: 28 Mar 2020 02:42

Instrument :

MSVOA_U

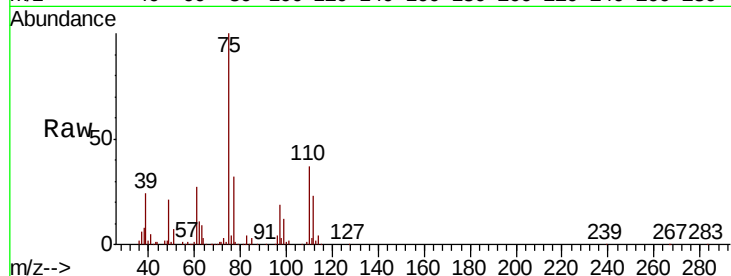
ClientSampleId :

Tot Ion: 75 Resp: 126121

Ion Ratio Lower Upper

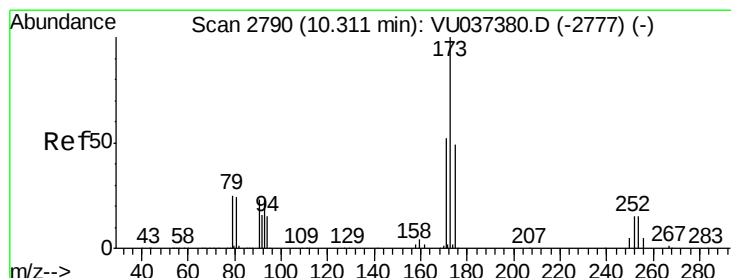
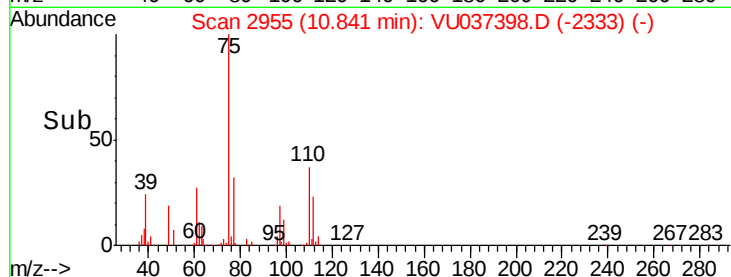
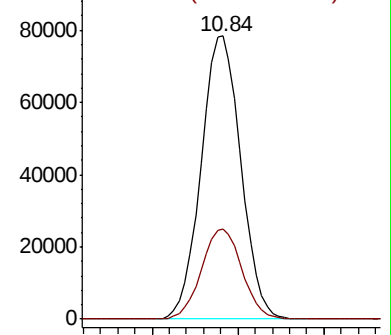
75 100

77 32.4 25.6 38.4



Abundance Ion 75.00 (74.70 to 75.70): VU037380.D (-2942) (-)

Ion 77.00 (76.70 to 77.70): VU037380.D (-2942) (-)



#61

Bromoform

Concen: 37.937 ug/L

RT: 10.31 min Scan# 2790

Delta R.T. 0.00 min

Lab File: VU037398.D

Acq: 28 Mar 2020 02:42

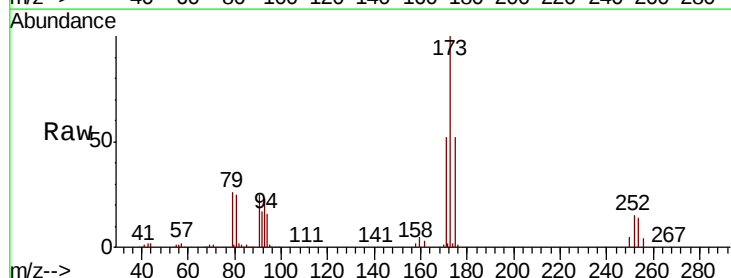
Tgt Ion: 173 Resp: 84656

Ion Ratio Lower Upper

173 100

175 49.6 39.0 58.4

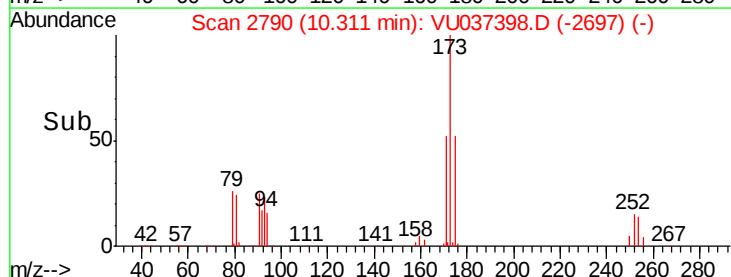
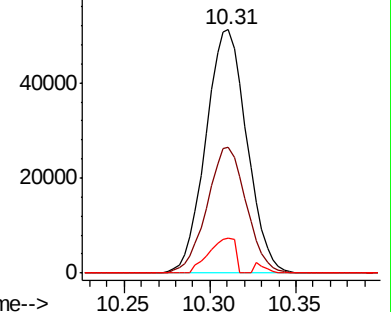
254 9.2 9.8 14.8#

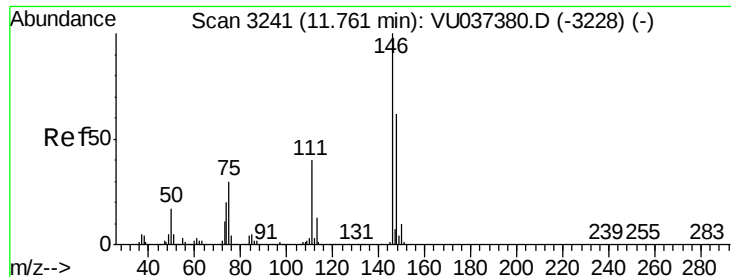


Abundance Ion 173.00 (172.70 to 173.70): VU037380.D (-2777) (-)

Ion 175.00 (174.70 to 175.70): VU037380.D (-2777) (-)

Ion 254.00 (253.70 to 254.70): VU037380.D (-2777) (-)





#62

1,3-Dichlorobenzene

Concen: 37.461 ug/L

RT: 11.76 min Scan# 3241

Delta R.T. 0.00 min

Lab File: VU037398.D

Acq: 28 Mar 2020 02:42

Instrument :

MSVOA_U

ClientSampleId :

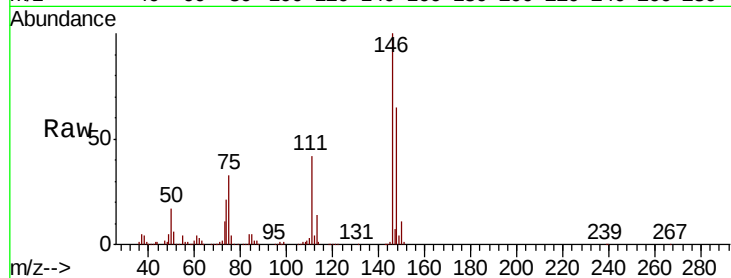
Tot Ion:146 Resp: 186261

Ion Ratio Lower Upper

146 100

111 41.9 29.1 54.1

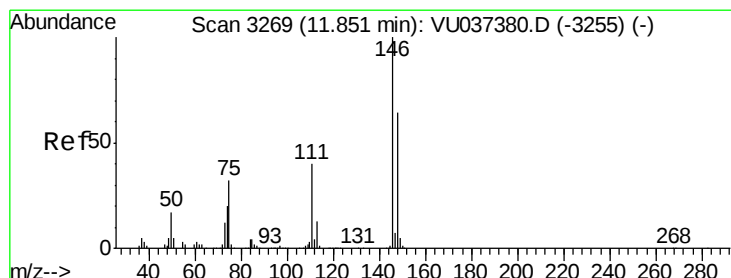
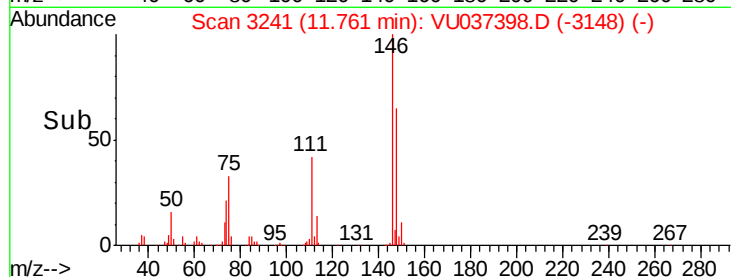
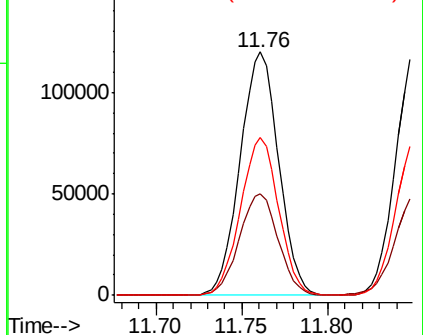
148 64.7 45.2 84.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 37.835 ug/L

RT: 11.85 min Scan# 3269

Delta R.T. 0.00 min

Lab File: VU037398.D

Acq: 28 Mar 2020 02:42

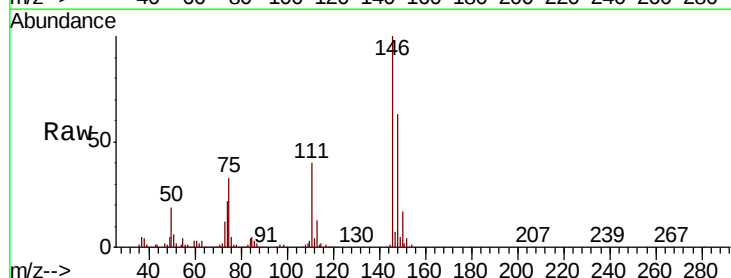
Tgt Ion:146 Resp: 187698

Ion Ratio Lower Upper

146 100

111 40.1 28.4 52.8

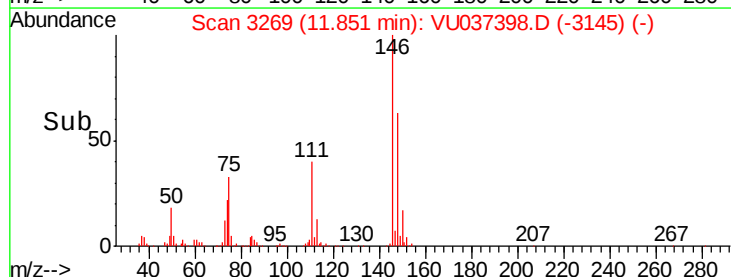
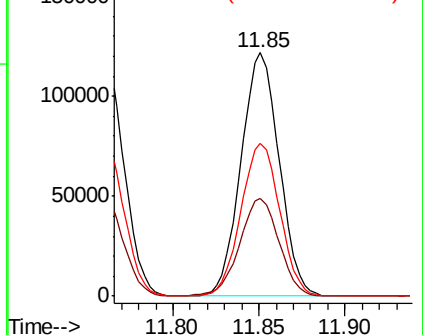
148 63.0 45.6 84.8

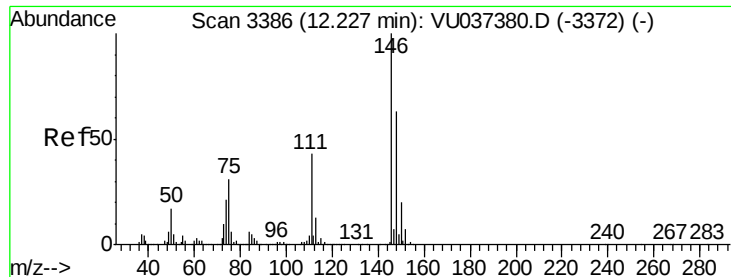


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 37.462 ug/L

RT: 12.23 min Scan# 3386

Delta R.T. 0.00 min

Lab File: VU037398.D

Acq: 28 Mar 2020 02:42

Instrument :

MSVOA_U

ClientSampleId :

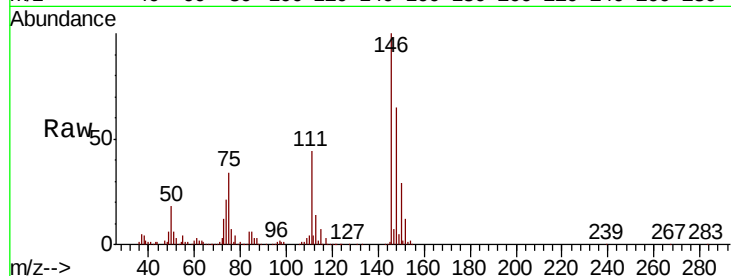
Tot Ion:146 Resp: 184044

Ion Ratio Lower Upper

146 100

111 44.0 33.6 50.4

148 65.2 51.9 77.9

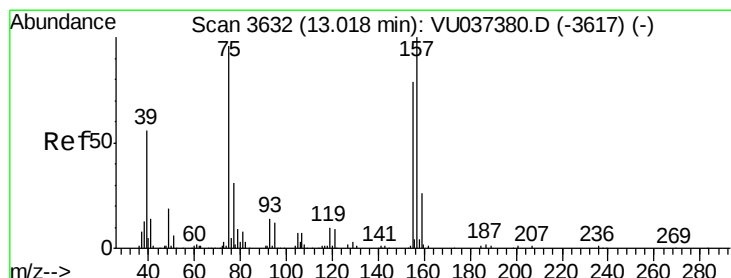
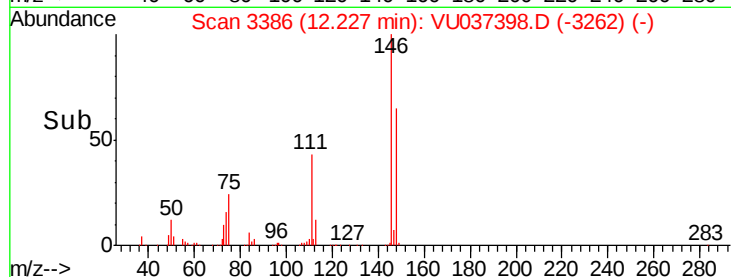
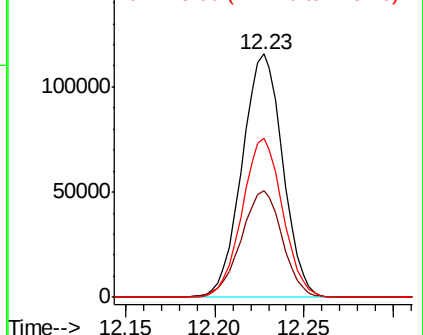


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 37.678 ug/L

RT: 13.01 min Scan# 3631

Delta R.T. -0.00 min

Lab File: VU037398.D

Acq: 28 Mar 2020 02:42

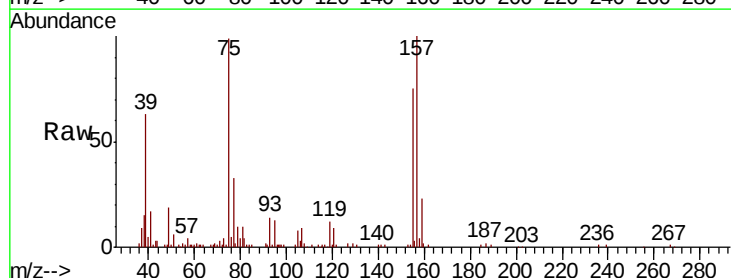
Tgt Ion: 75 Resp: 43498

Ion Ratio Lower Upper

75 100

155 75.9 68.5 102.7

157 101.5 86.5 129.7

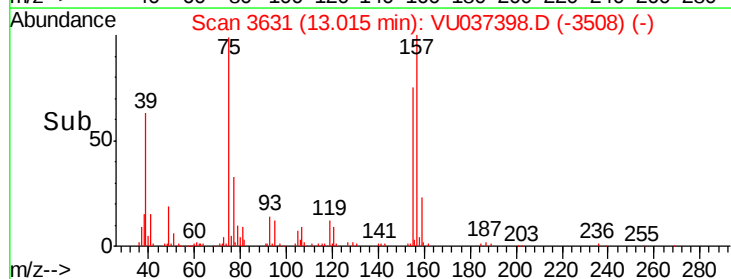
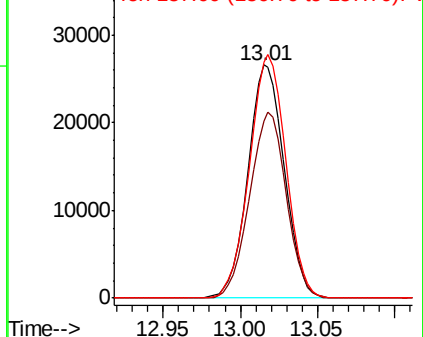


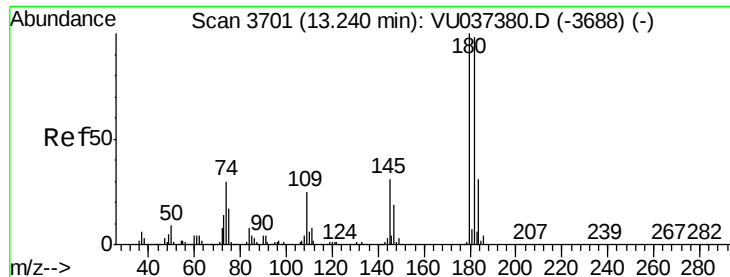
Abundance

Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

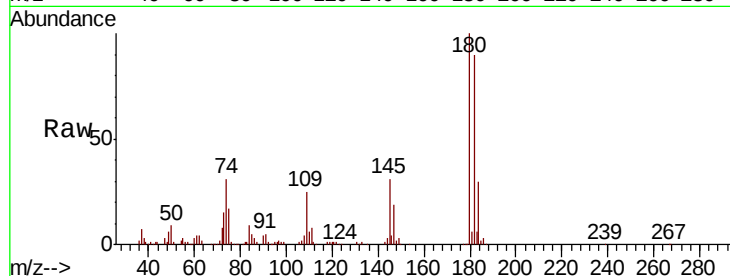




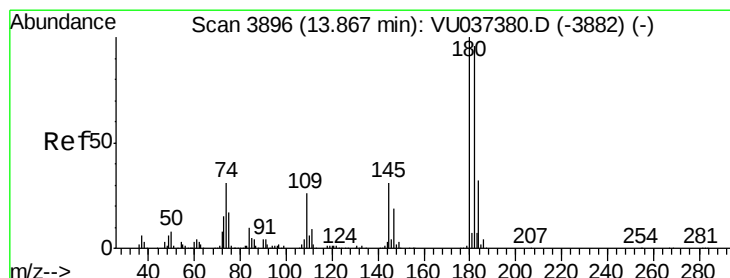
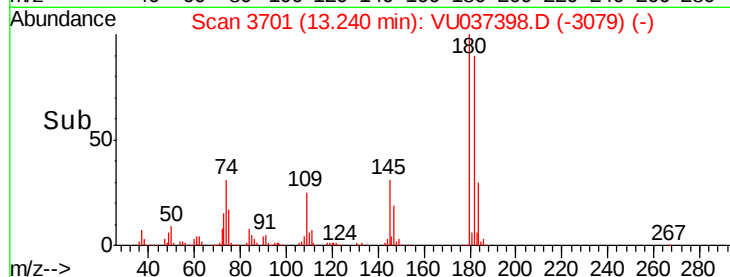
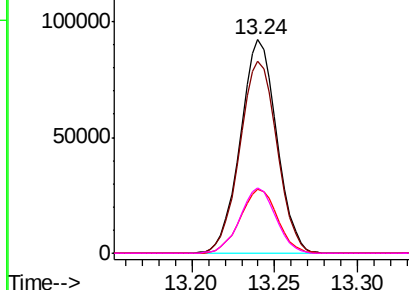
#67
 1,3,5-Trichlorobenzene
 Concen: 36.297 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. 0.00 min
 Lab File: VU037398.D
 Acq: 28 Mar 2020 02:42

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	180	Resp:	140099
Ion	Ratio	Lower	Upper
180	100		
182	92.7	77.3	115.9
184	30.6	24.6	37.0
145	30.2	23.6	35.4

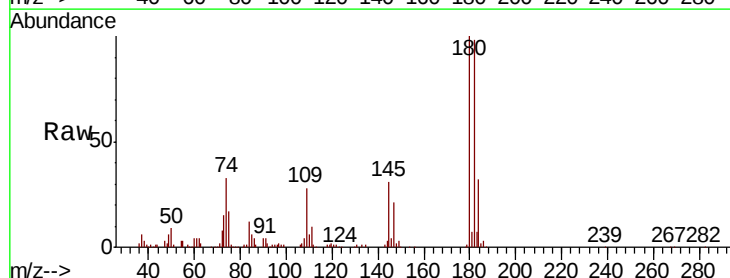


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

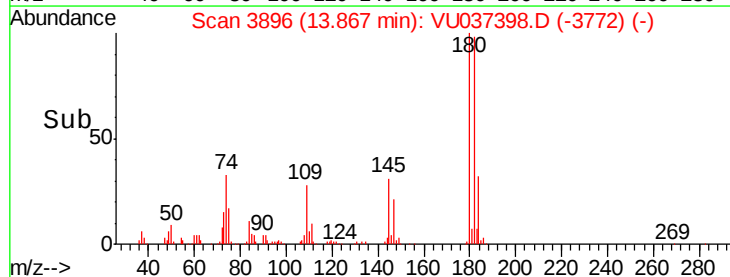
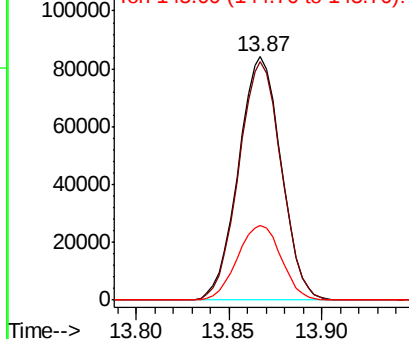


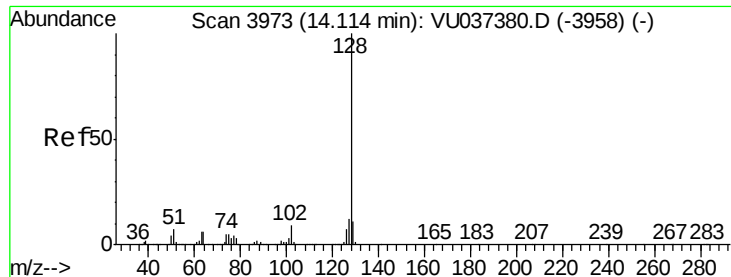
#68
 1,2,4-trichlorobenzene
 Concen: 35.414 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. 0.00 min
 Lab File: VU037398.D
 Acq: 28 Mar 2020 02:42

Tgt Ion:	180	Resp:	134386
Ion	Ratio	Lower	Upper
180	100		
182	97.7	76.4	114.6
145	31.6	24.6	36.8



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 37.996 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. 0.00 min

Lab File: VU037398.D

Acq: 28 Mar 2020 02:42

Instrument :

MSVOA_U

ClientSampleId :

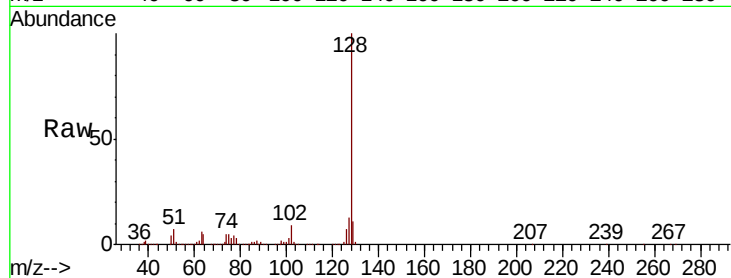
Tot Ion:128 Resp: 485850

Ion Ratio Lower Upper

128 100

127 12.5 10.4 15.6

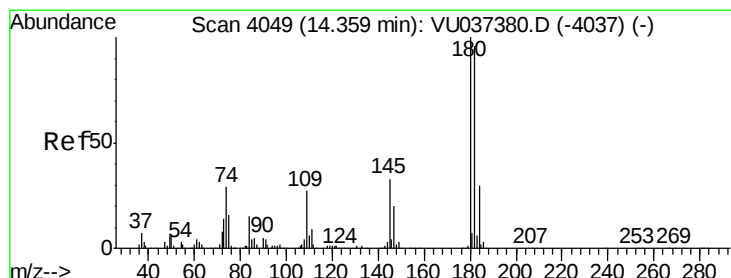
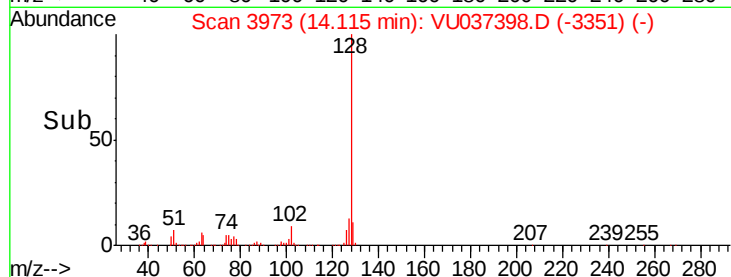
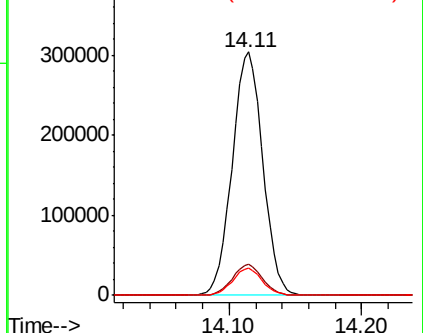
129 10.9 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 36.958 ug/L

RT: 14.36 min Scan# 4049

Delta R.T. 0.00 min

Lab File: VU037398.D

Acq: 28 Mar 2020 02:42

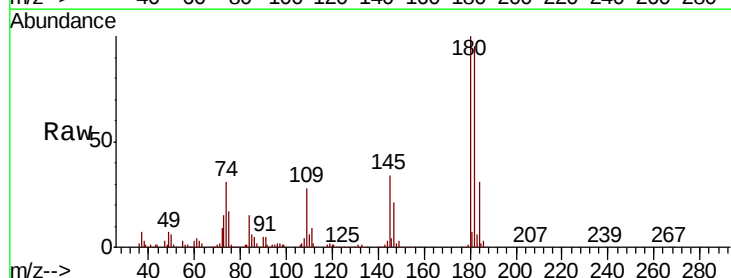
Tgt Ion:180 Resp: 140560

Ion Ratio Lower Upper

180 100

182 94.4 77.0 115.6

145 32.7 25.6 38.4



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

