

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080519\
 Data File : VU033591.D
 Acq On : 05 Aug 2019 10:10
 Operator : JC/SP
 Sample : VSTD00532
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Aug 05 16:54:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080519WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Aug 05 16:26:33 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	338421	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	334270	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	167976	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	11576	4.92	ug/L	0.00
7) Chloroethane-d5	1.67	69	9949	4.05	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.26	63	23097	5.16	ug/L	0.00
21) 2-Butanone-d5	4.17	46	7869	4.27	ug/L	0.02
24) Chloroform-d	4.62	84	21364	4.88	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.29	65	14254	5.16	ug/L	0.00
32) Benzene-d6	5.32	84	41492	4.79	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	13021	4.66	ug/L	0.00
41) Toluene-d8	7.55	98	37527	4.66	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.84	79	6203	4.55	ug/L	0.00
47) 2-Hexanone-d5	8.30	63	10565	7.87	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	20314	4.72	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	16094	4.98	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	15021	4.642 ug/L	98
3) Chloromethane	1.32	50	16896	5.029 ug/L	100
5) Vinyl chloride	1.39	62	18521	5.204 ug/L	98
6) Bromomethane	1.62	94	12897	5.109 ug/L	93
8) Chloroethane	1.69	64	11503	4.340 ug/L	99
9) Trichlorofluoromethane	1.87	101	23663	4.921 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	11843	4.882 ug/L	96
12) 1,1-Dichloroethene	2.27	96	11576	4.967 ug/L	90
13) Acetone	2.31	43	23473	12.992 ug/L	98
14) Carbon disulfide	2.46	76	36693	5.289 ug/L	100
15) Methyl Acetate	2.60	43	15149	5.031 ug/L	97
16) Methylene chloride	2.68	84	13687	5.070 ug/L	98
17) trans-1,2-Dichloroethene	2.96	96	12282	5.058 ug/L	99
18) Methyl tert-butyl Ether	2.98	73	36723	4.819 ug/L	99
19) 1,1-Dichloroethane	3.42	63	23346	5.013 ug/L	97
20) cis-1,2-Dichloroethene	4.20	96	13365	4.861 ug/L	93
22) 2-Butanone	4.25	43	23754	10.702 ug/L	83
23) Bromochloromethane	4.52	128	7029	5.001 ug/L	93
25) Chloroform	4.65	83	24355	4.980 ug/L	91
27) 1,2-Dichloroethane	5.39	62	19018	5.054 ug/L	# 92
29) Cyclohexane	4.97	56	18009	4.653 ug/L	97
30) 1,1,1-Trichloroethane	4.89	97	20714	5.064 ug/L	99
31) Carbon tetrachloride	5.11	117	17428	4.893 ug/L	98
33) Benzene	5.37	78	49849	4.879 ug/L	100
34) Trichloroethene	6.17	95	13160	4.892 ug/L	97
35) Methylcyclohexane	6.40	83	18725	4.585 ug/L	97
37) 1,2-Dichloropropane	6.41	63	14405	5.152 ug/L	98
38) Bromodichloromethane	6.74	83	17366	4.793 ug/L	93
39) cis-1,3-Dichloropropene	7.25	75	19162	4.479 ug/L	97
40) 4-Methyl-2-pentanone	7.44	43	37661	9.320 ug/L	97

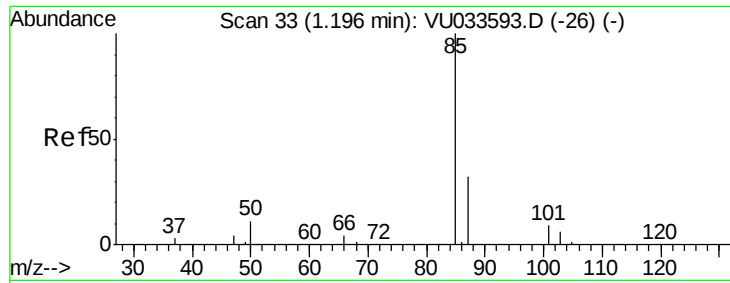
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080519\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.62	91	51126	4.624	ug/L	95
44) trans-1,3-Dichloropropene	7.86	75	17437	4.463	ug/L	96
45) 1,1,2-Trichloroethane	8.05	97	13471	5.038	ug/L	97
46) Tetrachloroethene	8.21	164	10197	4.705	ug/L	97
48) 2-Hexanone	8.35	43	29601	9.094	ug/L	98
49) Dibromochloromethane	8.46	129	14228	4.717	ug/L	99
50) 1,2-Dibromoethane	8.57	107	14397	4.966	ug/L	98
51) Chlorobenzene	9.10	112	35620	4.926	ug/L	98
52) Ethylbenzene	9.23	91	55008	4.671	ug/L	99
53) m,p-Xylene	9.36	106	20350	4.536	ug/L	99
54) o-xylene	9.76	106	19778	4.473	ug/L	95
55) Styrene	9.78	104	32224	4.297	ug/L	95
56) Isopropylbenzene	10.15	105	49716	4.341	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.44	83	23290	4.866	ug/L	97
59) 1,2,3-Trichloropropane	10.48	75	18603	4.929	ug/L	99
61) Bromoform	9.94	173	10782	4.880	ug/L	99
62) 1,3-Dichlorobenzene	11.40	146	27586	4.966	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	28751	5.054	ug/L	98
65) 1,2-Dichlorobenzene	11.86	146	26809	4.823	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.65	75	4900	4.597	ug/L	96
67) 1,3,5-Trichlorobenzene	12.87	180	19266	4.492	ug/L	98
68) 1,2,4-trichlorobenzene	13.49	180	14707	4.078	ug/L	95
69) Naphthalene	13.73	128	39770	3.796	ug/L	98
70) 1,2,3-Trichlorobenzene	13.98	180	17356	4.502	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 4.642 ug/L

RT: 1.20 min Scan# 33

Delta R.T. -0.00 min

Lab File: VU033591.D

Acq: 05 Aug 2019 10:10

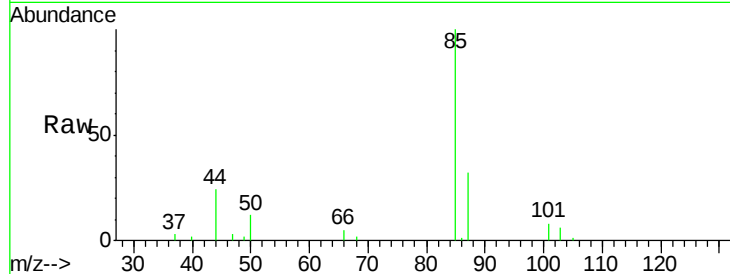
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 15021

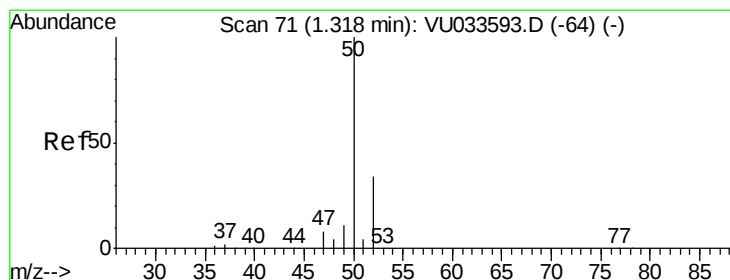
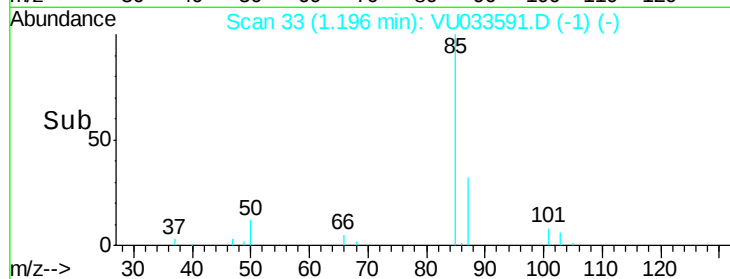
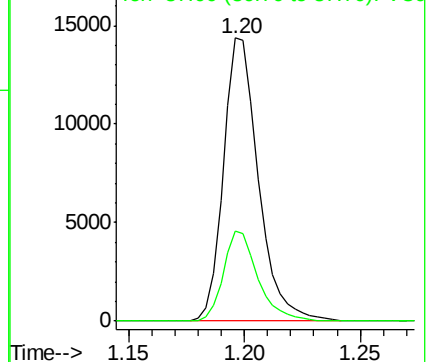
Ion Ratio Lower Upper

85 100

87 31.2 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VU0
Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 5.029 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU033591.D

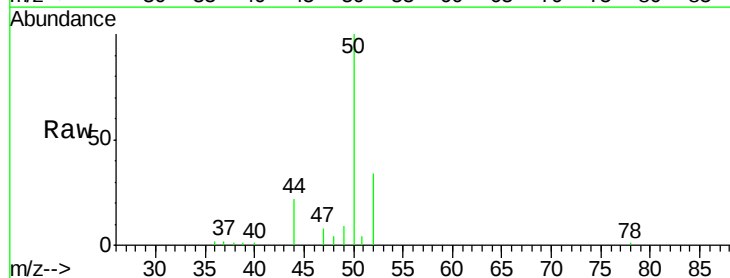
Acq: 05 Aug 2019 10:10

Tgt Ion: 50 Resp: 16896

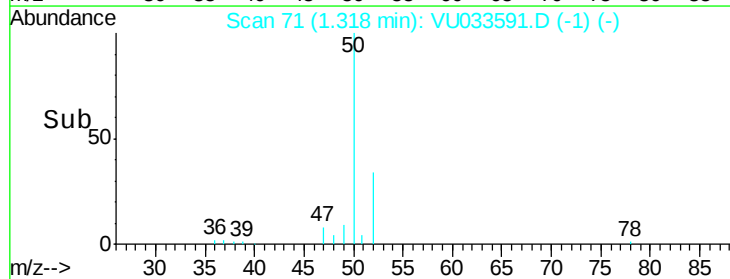
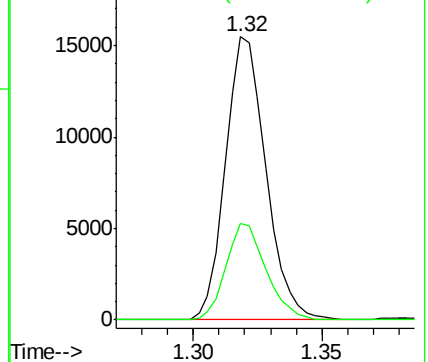
Ion Ratio Lower Upper

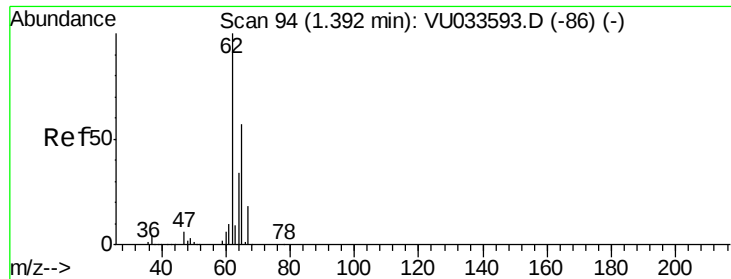
50 100

52 33.9 23.6 43.8



Abundance Ion 50.00 (49.70 to 50.70): VU0
Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 5.204 ug/L

RT: 1.39 min Scan# 94

Delta R.T. -0.00 min

Lab File: VU033591.D

Acq: 05 Aug 2019 10:10

Instrument :

MSVOA_U

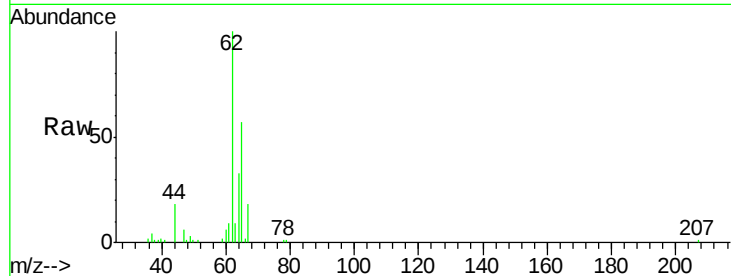
ClientSampleId :

Tot Ion: 62 Resp: 18521

Ion Ratio Lower Upper

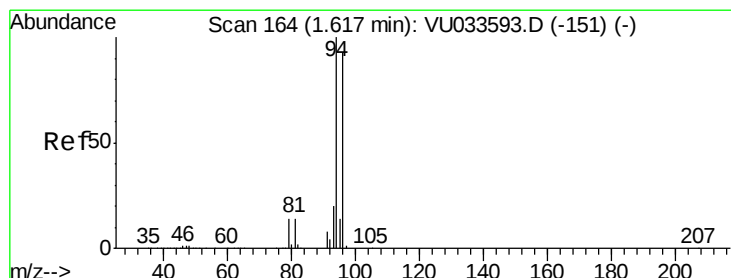
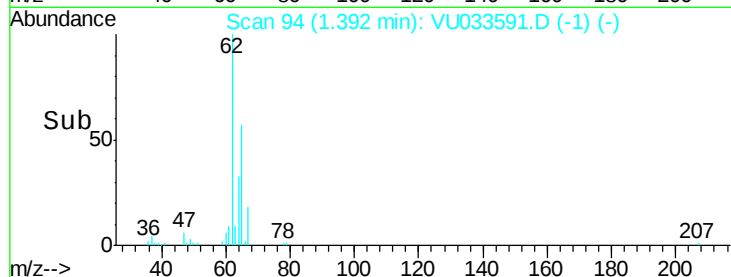
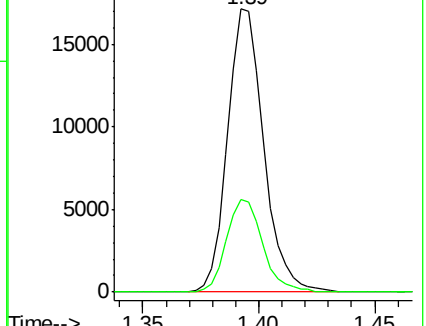
62 100

64 32.8 23.8 44.2



Abundance Ion 62.00 (61.70 to 62.70): VU033591.D (-86) (-)

Ion 64.00 (63.70 to 64.70): VU033591.D (-86) (-)



#6

Bromomethane

Concen: 5.109 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU033591.D

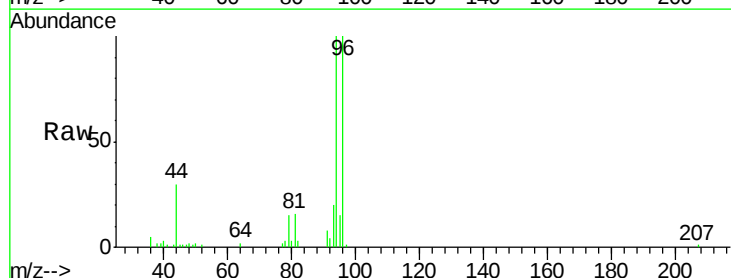
Acq: 05 Aug 2019 10:10

Tgt Ion: 94 Resp: 12897

Ion Ratio Lower Upper

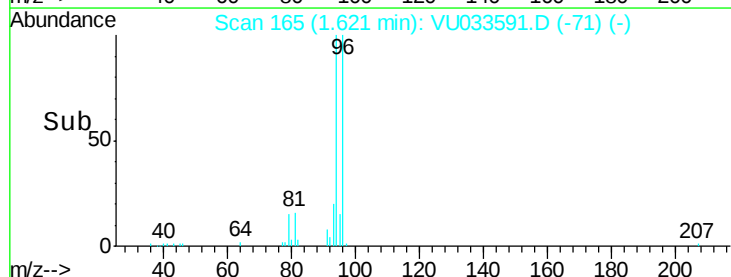
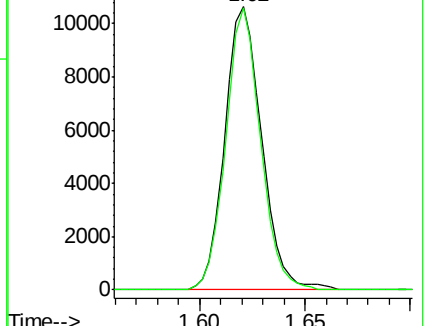
94 100

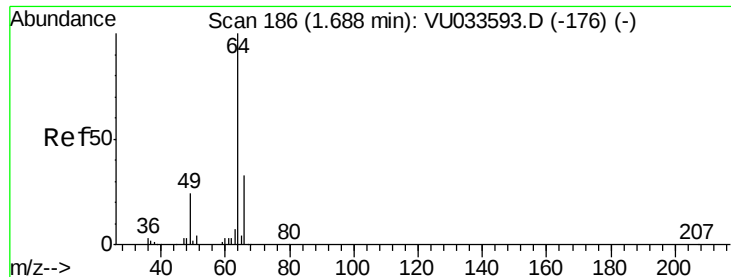
96 99.8 65.3 121.3



Abundance Ion 94.00 (93.70 to 94.70): VU033591.D (-151) (-)

Ion 96.00 (95.70 to 96.70): VU033591.D (-151) (-)





#8

Chloroethane

Concen: 4.340 ug/L

RT: 1.69 min Scan# 186

Delta R.T. -0.00 min

Lab File: VU033591.D

Acq: 05 Aug 2019 10:10

Instrument :

MSVOA_U

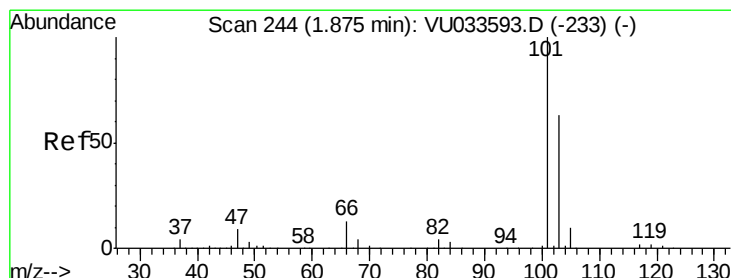
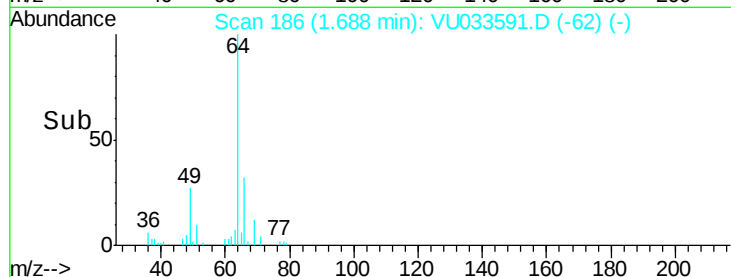
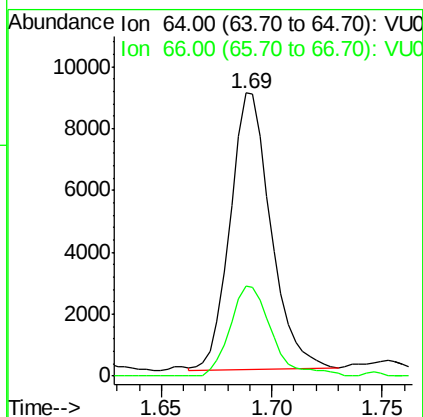
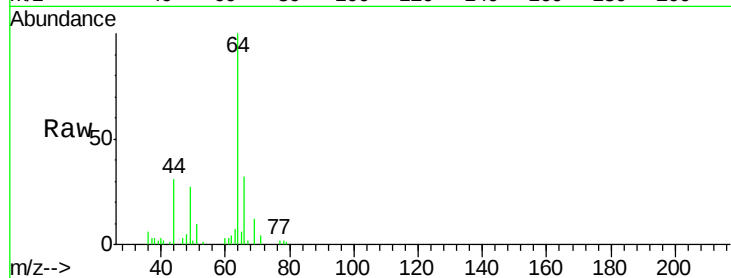
ClientSampled :

Tot Ion: 64 Resp: 11503

Ion Ratio Lower Upper

64 100

66 31.9 22.9 42.5



#9

Trichlorofluoromethane

Concen: 4.921 ug/L

RT: 1.87 min Scan# 244

Delta R.T. -0.00 min

Lab File: VU033591.D

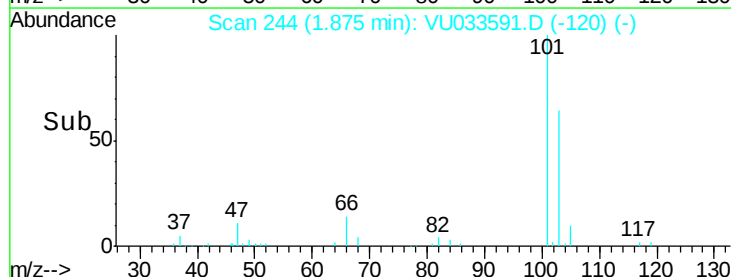
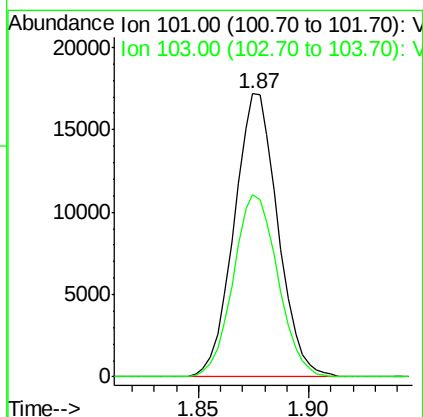
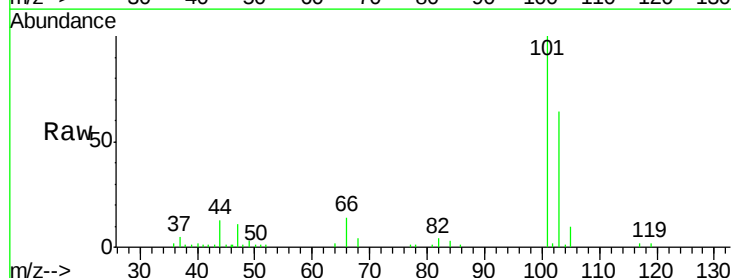
Acq: 05 Aug 2019 10:10

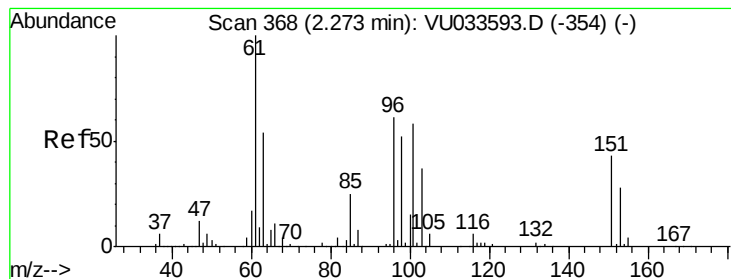
Tgt Ion: 101 Resp: 23663

Ion Ratio Lower Upper

101 100

103 65.7 51.0 76.4





#10

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

Concen: 4.882 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU033591.D

Acq: 05 Aug 2019 10:10

Instrument :

MSVOA_U

ClientSampleId :

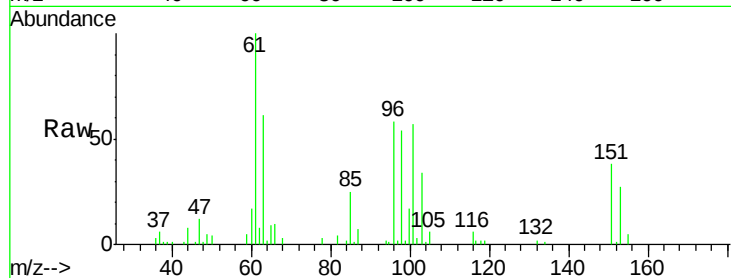
Tot Ion:101 Resp: 11843

Ion Ratio Lower Upper

101 100

85 44.8 34.3 51.5

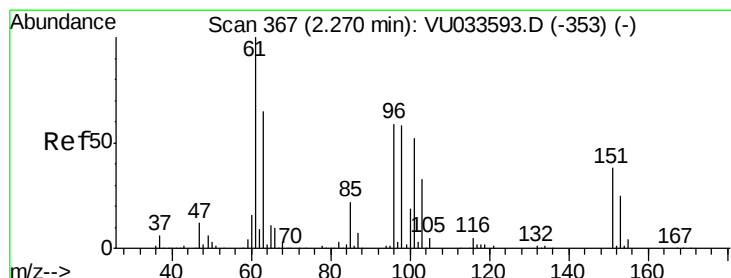
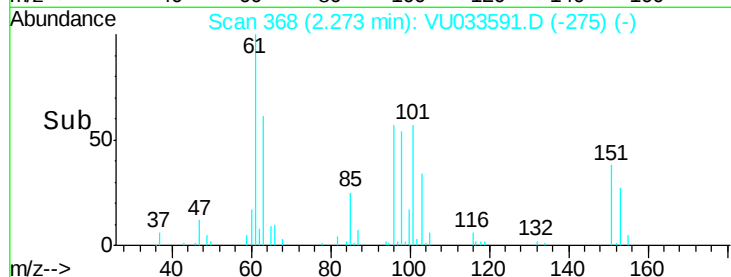
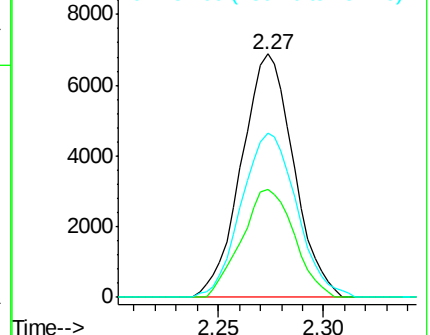
151 71.4 60.2 90.4



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: 4.967 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033591.D

Acq: 05 Aug 2019 10:10

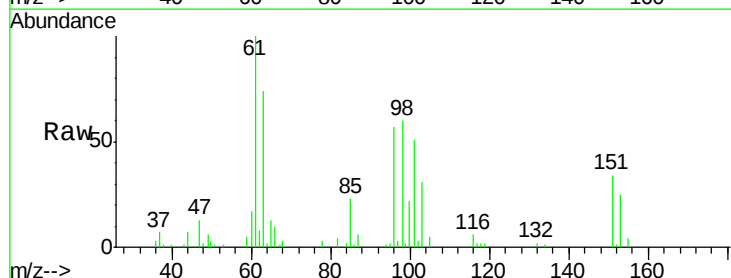
Tgt Ion: 96 Resp: 11576

Ion Ratio Lower Upper

96 100

61 176.5 119.1 221.3

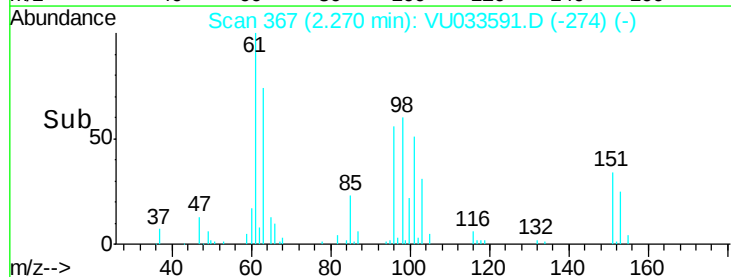
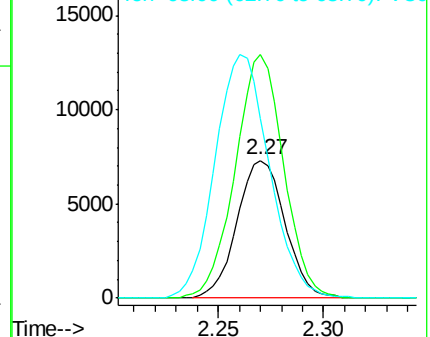
63 130.4 77.9 144.7

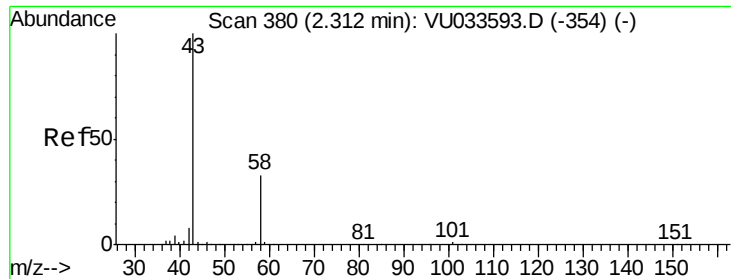


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 12.992 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.00 min

Lab File: VU033591.D

Acq: 05 Aug 2019 10:10

Instrument :

MSVOA_U

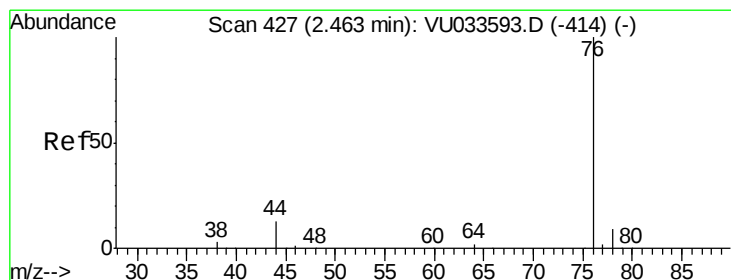
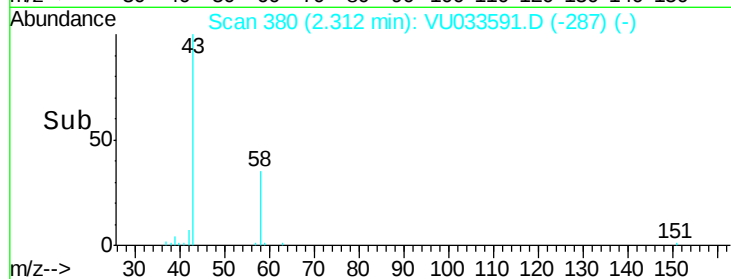
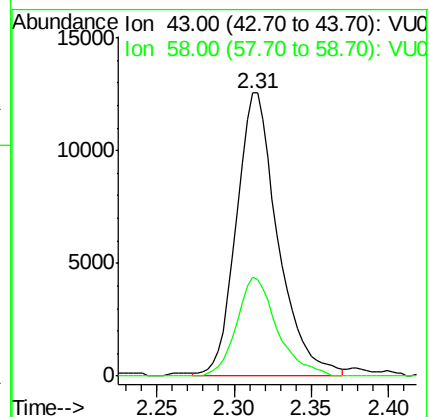
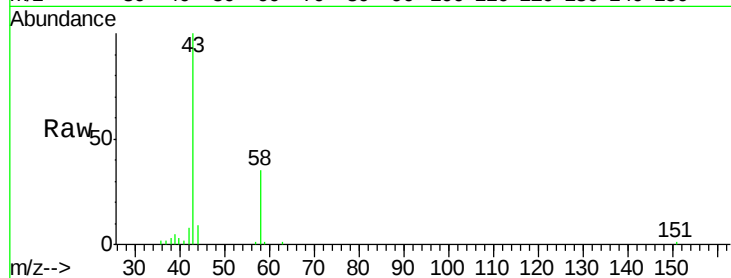
ClientSampleId :

Tot Ion: 43 Resp: 23473

Ion Ratio Lower Upper

43 100

58 34.0 0.0 65.4



#14

Carbon disulfide

Concen: 5.289 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.00 min

Lab File: VU033591.D

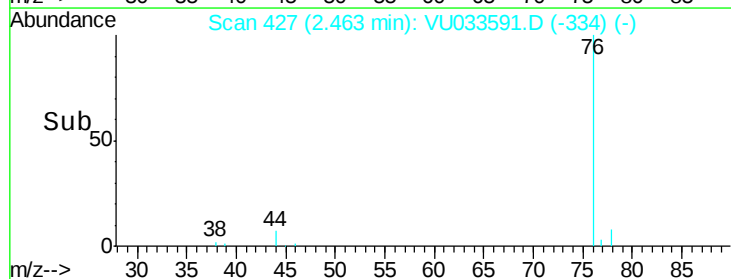
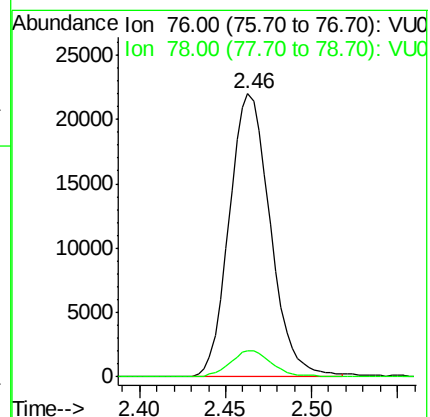
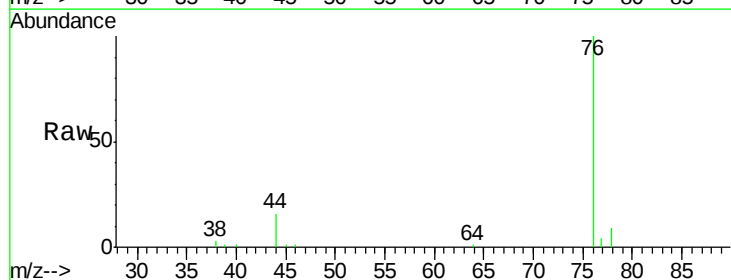
Acq: 05 Aug 2019 10:10

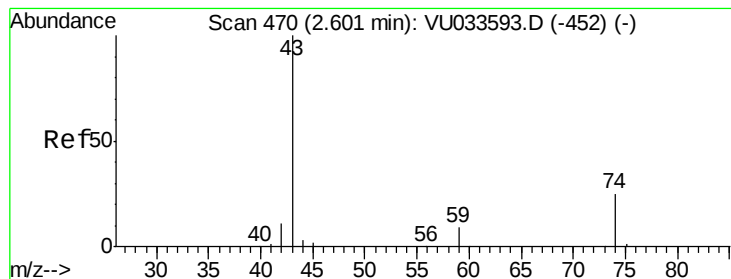
Tgt Ion: 76 Resp: 36693

Ion Ratio Lower Upper

76 100

78 9.3 7.4 11.2





#15

Methvl Acetate

Concen: 5.031 ug/L

RT: 2.60 min Scan# 471

Delta R.T. 0.00 min

Lab File: VU033591.D

Acq: 05 Aug 2019 10:10

Instrument :

MSVOA_U

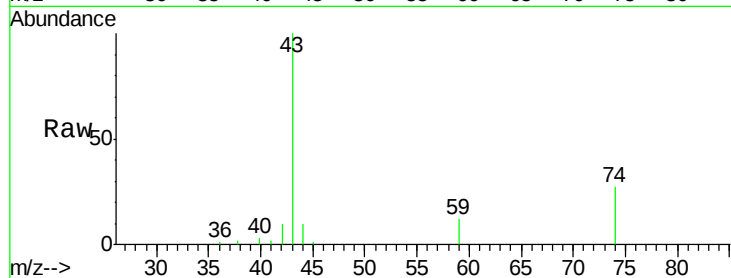
ClientSampleId :

Tot Ion: 43 Resp: 15149

Ion Ratio Lower Upper

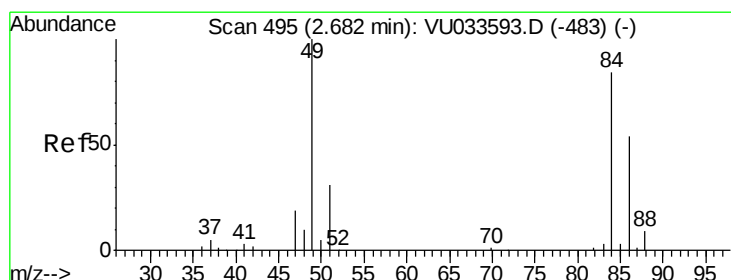
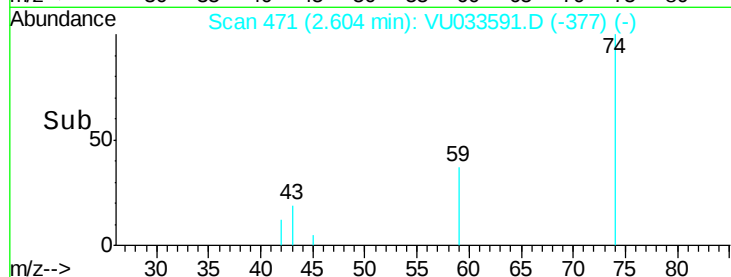
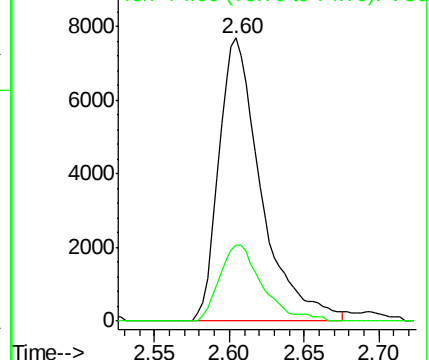
43 100

74 26.0 19.8 29.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0



#16

Methylene chloride

Concen: 5.070 ug/L

RT: 2.68 min Scan# 496

Delta R.T. 0.00 min

Lab File: VU033591.D

Acq: 05 Aug 2019 10:10

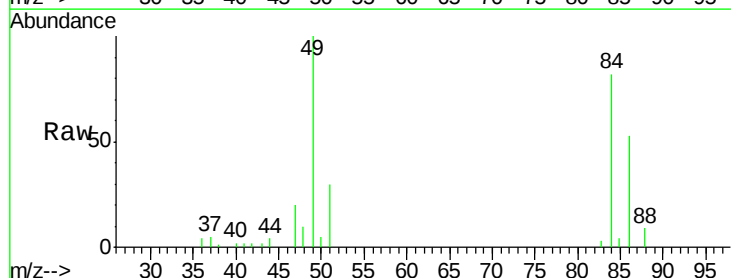
Tgt Ion: 84 Resp: 13687

Ion Ratio Lower Upper

84 100

86 64.7 44.9 83.5

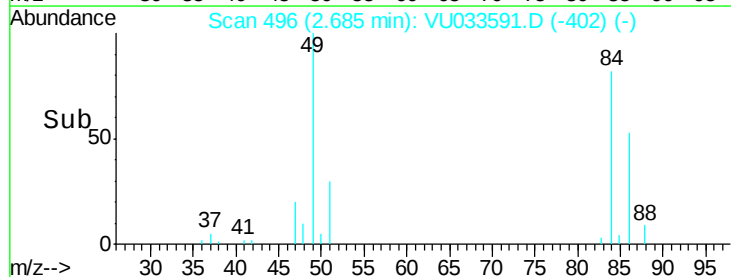
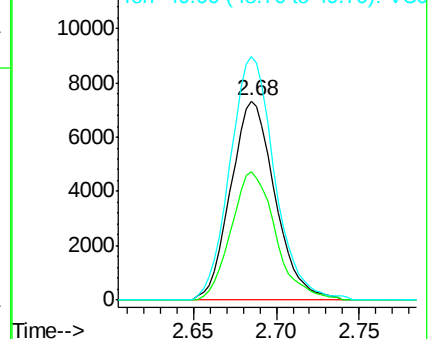
49 122.3 83.4 155.0

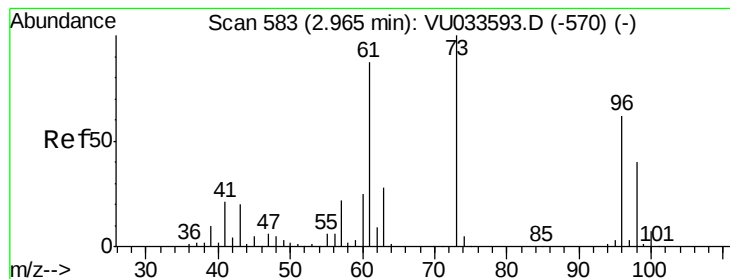


Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0





#17

trans-1,2-Dichloroethene

Concen: 5.058 ug/L

RT: 2.96 min Scan# 583

Delta R.T. -0.00 min

Lab File: VU033591.D

Acq: 05 Aug 2019 10:10

Instrument :
MSVOA_U
ClientSampleId :

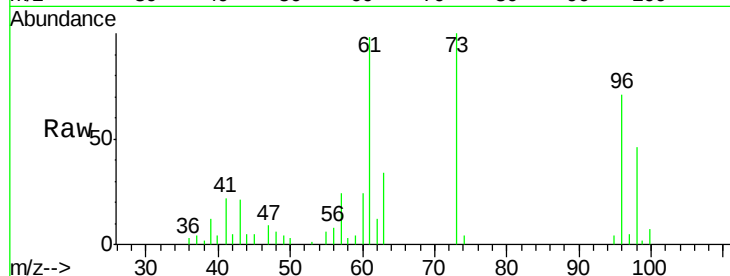
Tot Ion: 96 Resp: 12282

Ion Ratio Lower Upper

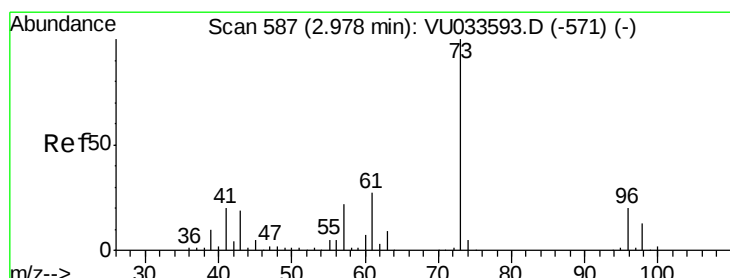
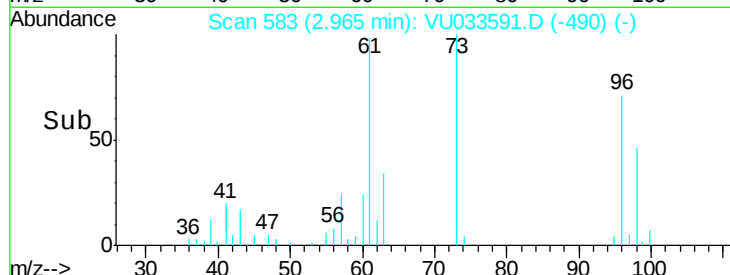
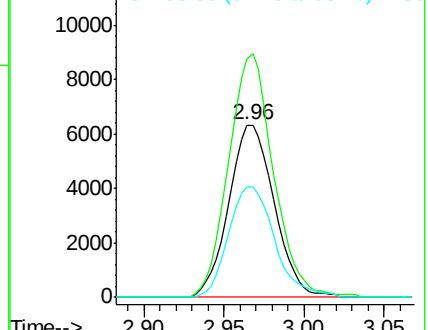
96 100

61 138.6 98.8 183.4

98 64.4 44.9 83.5



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 4.819 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU033591.D

Acq: 05 Aug 2019 10:10

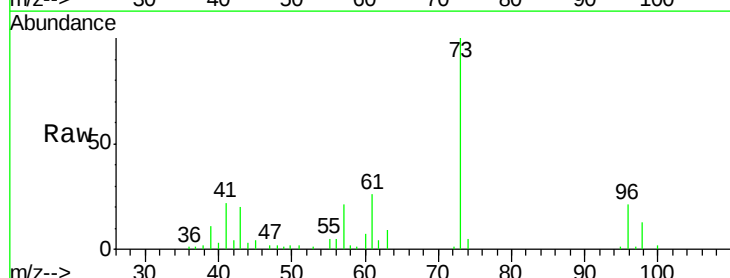
Tgt Ion: 73 Resp: 36723

Ion Ratio Lower Upper

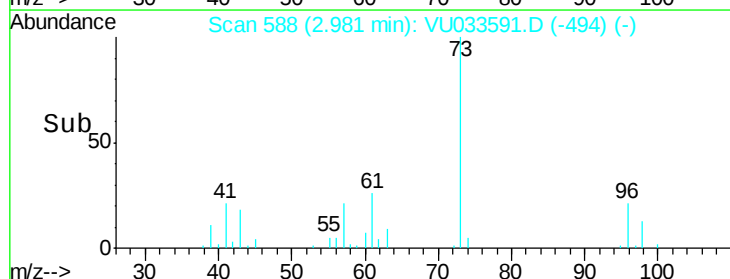
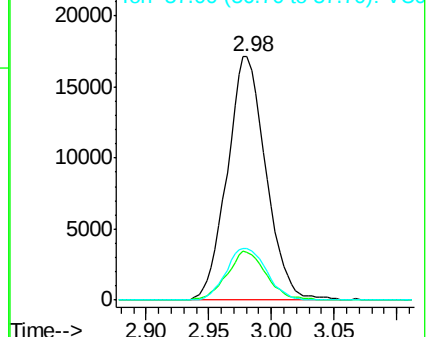
73 100

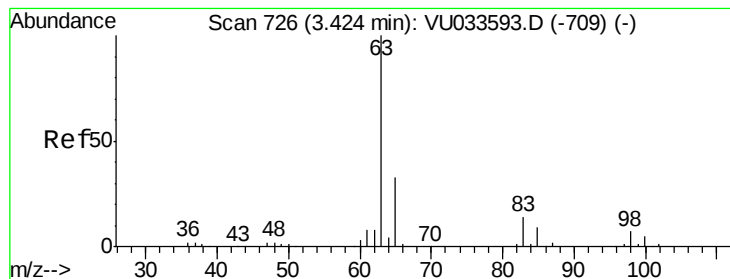
43 20.3 15.8 23.6

57 22.2 17.5 26.3



Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 5.013 ug/L

RT: 3.42 min Scan# 726

Delta R.T. -0.00 min

Lab File: VU033591.D

Acq: 05 Aug 2019 10:10

Instrument :

MSVOA_U

ClientSampled :

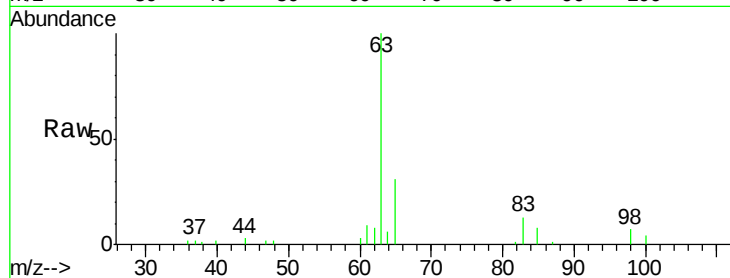
Tot Ion: 63 Resp: 23346

Ion Ratio Lower Upper

63 100

65 30.5 22.9 42.5

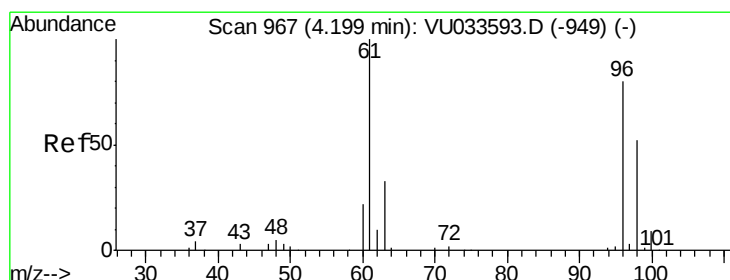
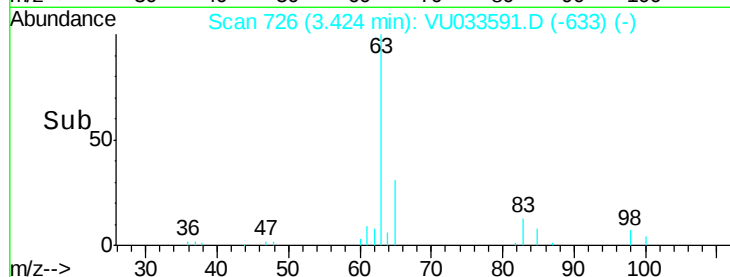
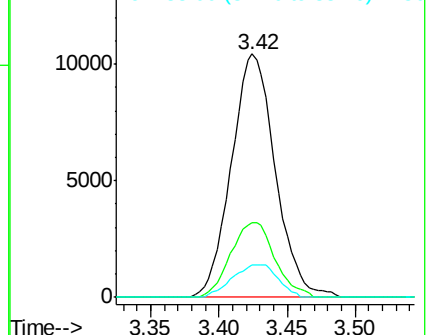
83 13.2 9.8 18.2



Abundance Ion 63.00 (62.70 to 63.70): VU033591.D (-633) (-)

Ion 65.00 (64.70 to 65.70): VU033591.D (-633) (-)

Ion 83.00 (82.70 to 83.70): VU033591.D (-633) (-)



#20

cis-1,2-Dichloroethene

Concen: 4.861 ug/L

RT: 4.20 min Scan# 967

Delta R.T. -0.00 min

Lab File: VU033591.D

Acq: 05 Aug 2019 10:10

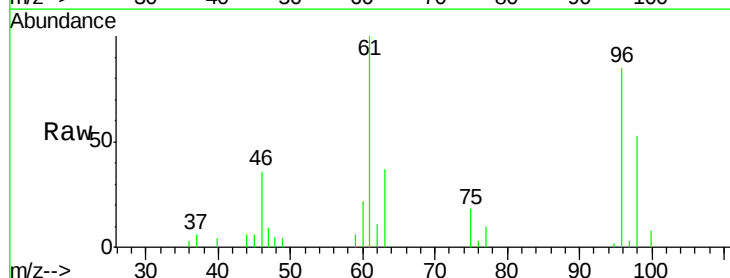
Tgt Ion: 96 Resp: 13365

Ion Ratio Lower Upper

96 100

61 118.1 88.2 163.8

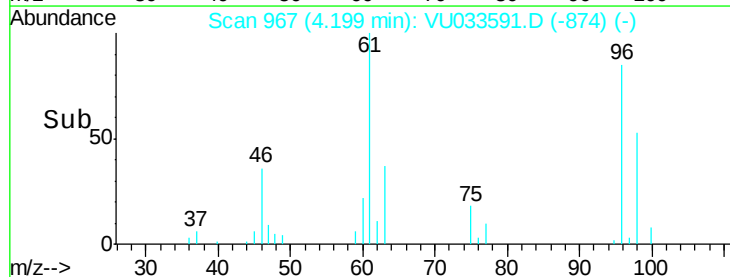
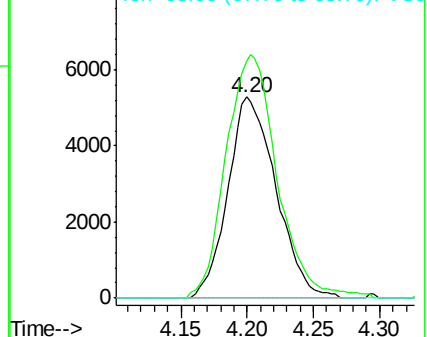
68 0.0 0.0 0.0

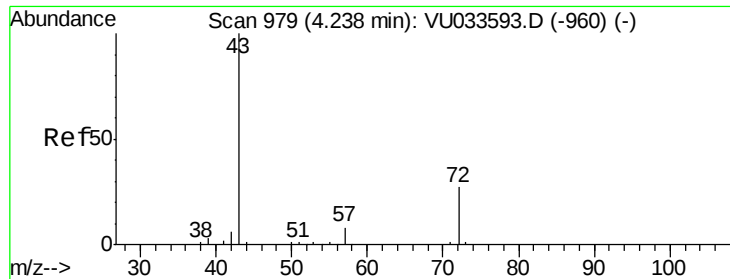


Abundance Ion 96.00 (95.70 to 96.70): VU033591.D (-874) (-)

Ion 61.00 (60.70 to 61.70): VU033591.D (-874) (-)

Ion 68.00 (67.70 to 68.70): VU033591.D (-874) (-)





#22

2-Butanone

Concen: 10.702 ug/L

RT: 4.25 min Scan# 982

Delta R.T. 0.01 min

Lab File: VU033591.D

Acq: 05 Aug 2019 10:10

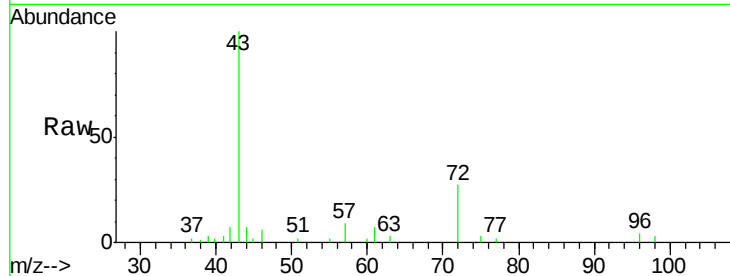
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 23754

Ion Ratio Lower Upper

43 100

72 18.7 13.8 41.4



Abundance Ion 43.00 (42.70 to 43.70): VU033591.D (-982) (-)

Ion 72.00 (71.70 to 72.70): VU033591.D (-982) (-)

4.25

8000

6000

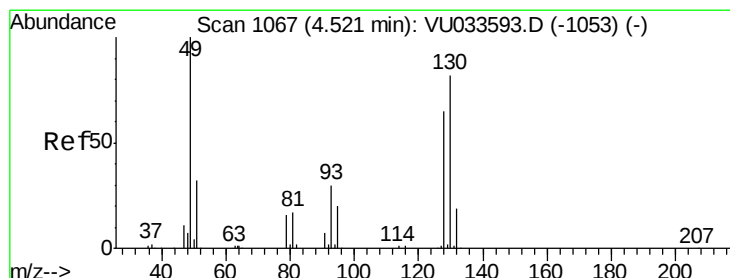
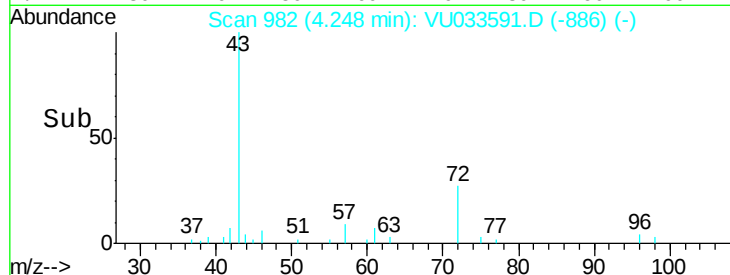
4000

2000

0

Time-->

4.20 4.30



#23

Bromochloromethane

Concen: 5.001 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. 0.00 min

Lab File: VU033591.D

Acq: 05 Aug 2019 10:10

Tgt Ion: 128 Resp: 7029

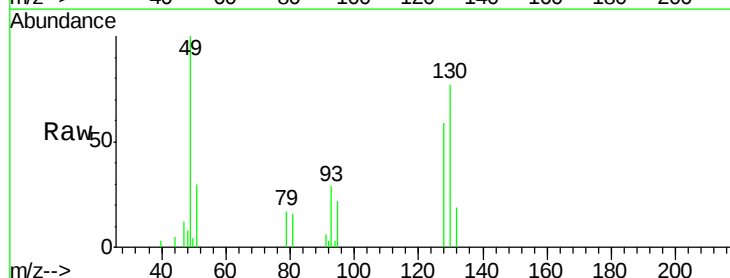
Ion Ratio Lower Upper

128 100

49 168.6 108.1 200.9

130 130.6 89.0 165.4

51 50.0 38.8 58.2



Abundance Ion 128.00 (127.70 to 128.70): VU033591.D (-1068) (-)

Ion 49.00 (48.70 to 49.70): VU033591.D (-1068) (-)

Ion 130.00 (129.70 to 130.70): VU033591.D (-1068) (-)

Ion 51.00 (50.70 to 51.70): VU033591.D (-1068) (-)

4.52

6000

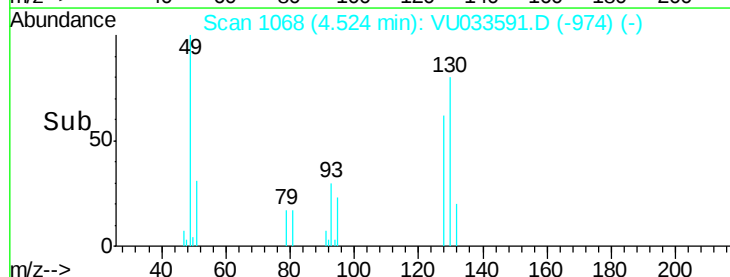
4000

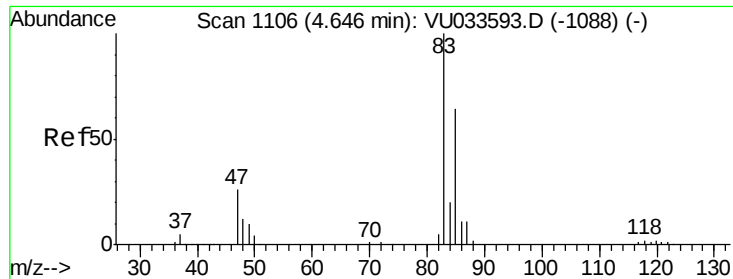
2000

0

Time-->

4.45 4.50 4.55

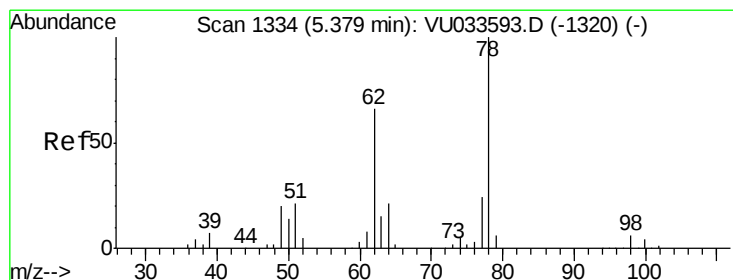
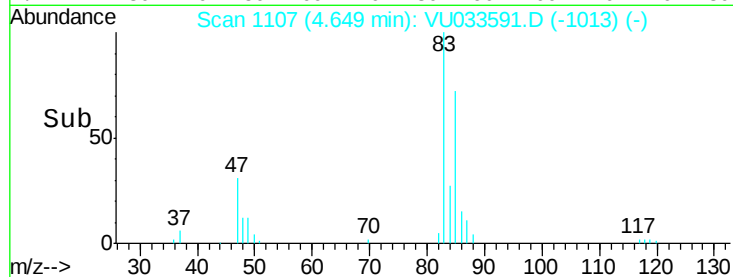
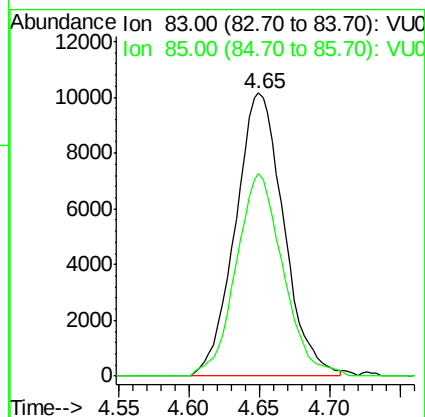
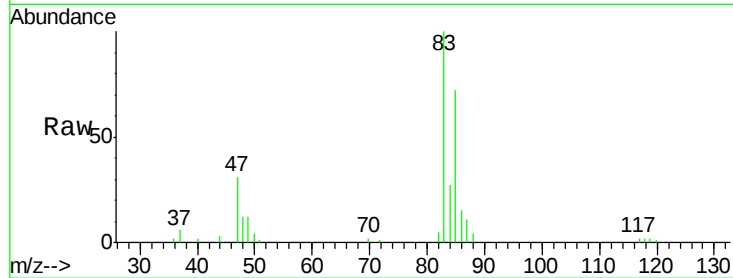




#25
Chloroform
Concen: 4.980 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU033591.D
Acq: 05 Aug 2019 10:10

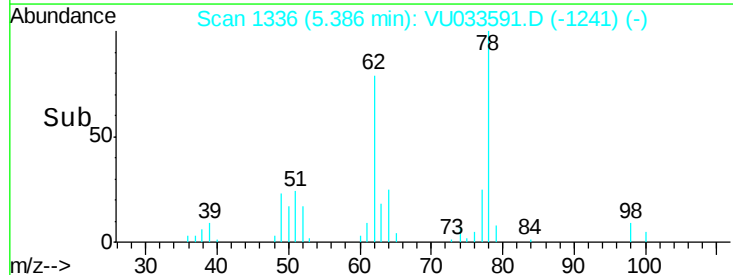
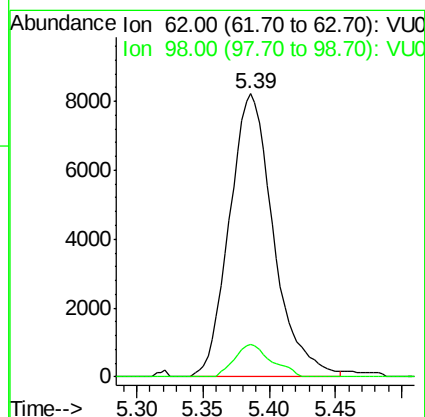
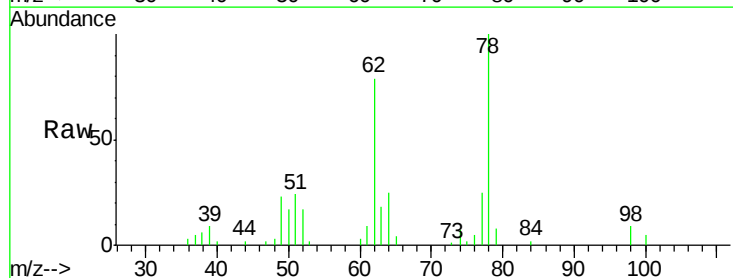
Instrument :
MSVOA_U
ClientSampleId :

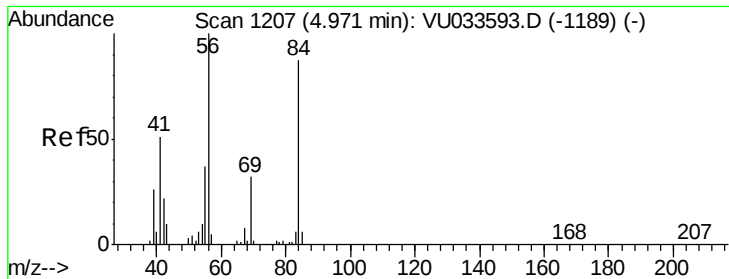
Tot Ion: 83 Resp: 24355
Ion Ratio Lower Upper
83 100
85 71.5 44.9 83.3



#27
1,2-Dichloroethane
Concen: 5.054 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. 0.01 min
Lab File: VU033591.D
Acq: 05 Aug 2019 10:10

Tgt Ion: 62 Resp: 19018
Ion Ratio Lower Upper
62 100
98 11.6 7.0 10.4#

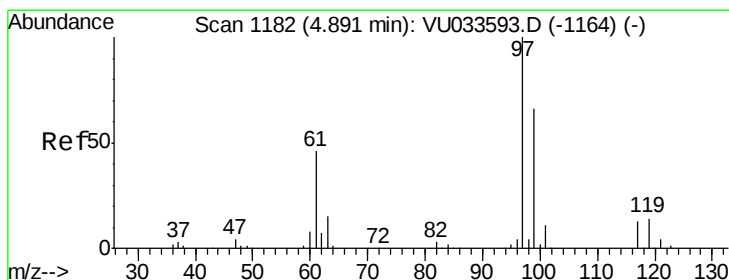
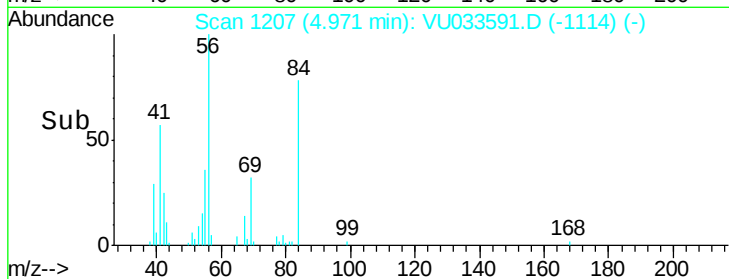
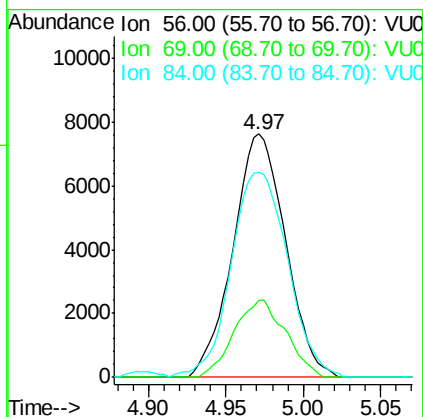
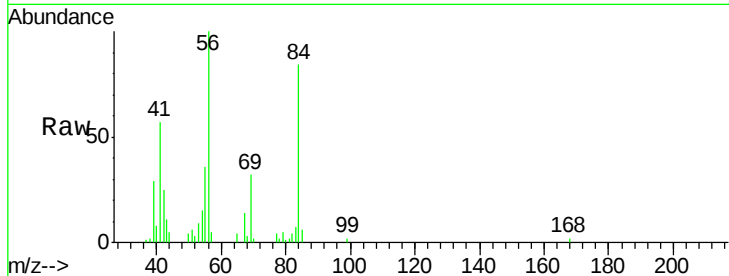




#29
Cyclohexane
Concen: 4.653 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. -0.00 min
Lab File: VU033591.D
Acq: 05 Aug 2019 10:10

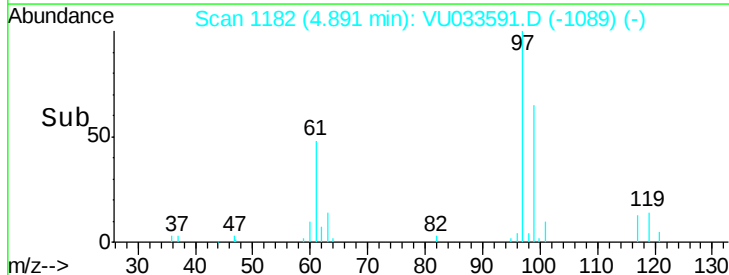
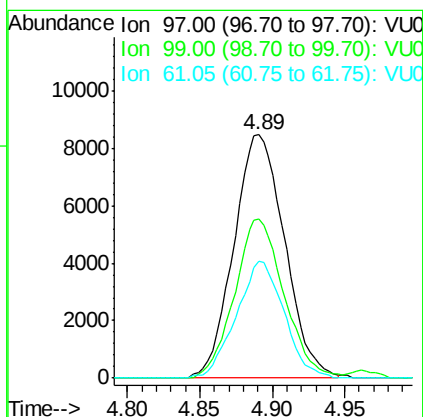
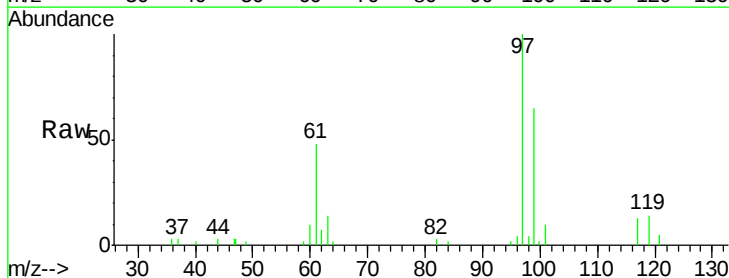
Instrument :
MSVOA_U
ClientSampleId :

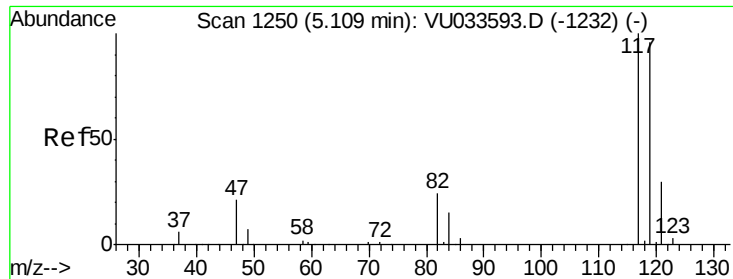
Tot Ion: 56 Resp: 18009
Ion Ratio Lower Upper
56 100
69 31.1 24.7 37.1
84 90.7 69.8 104.8



#30
1,1,1-Trichloroethane
Concen: 5.064 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. -0.00 min
Lab File: VU033591.D
Acq: 05 Aug 2019 10:10

Tgt Ion: 97 Resp: 20714
Ion Ratio Lower Upper
97 100
99 63.5 51.8 77.6
61 44.7 36.2 54.2





#31

Carbon tetrachloride

Concen: 4.893 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VU033591.D

Acq: 05 Aug 2019 10:10

Instrument :

MSVOA_U

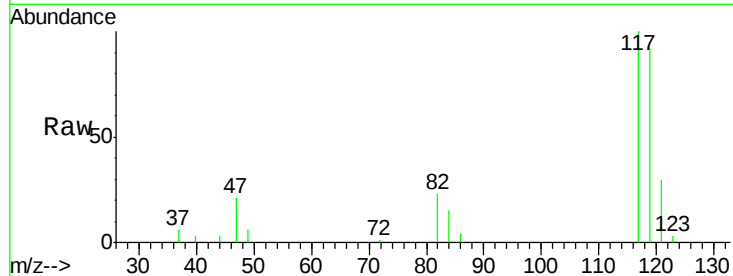
ClientSampleId :

Tot Ion:117 Resp: 17428

Ion Ratio Lower Upper

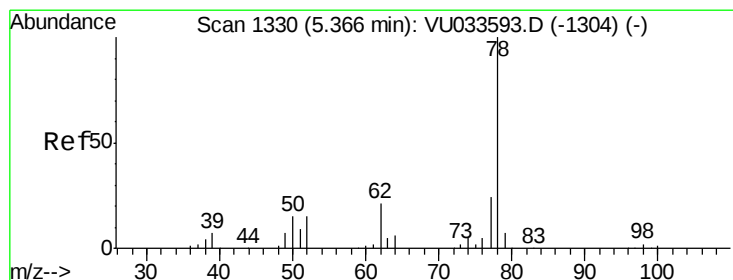
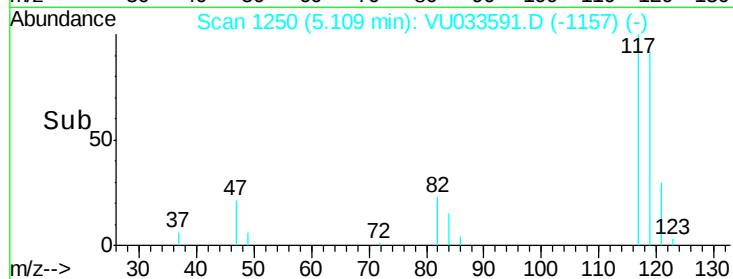
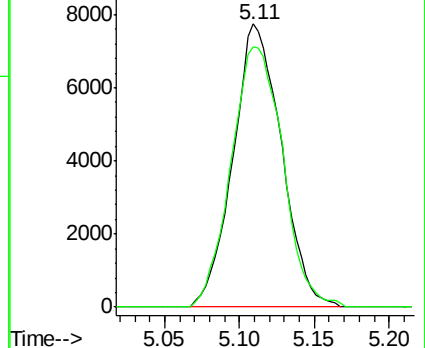
117 100

119 98.3 76.9 115.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 4.879 ug/L

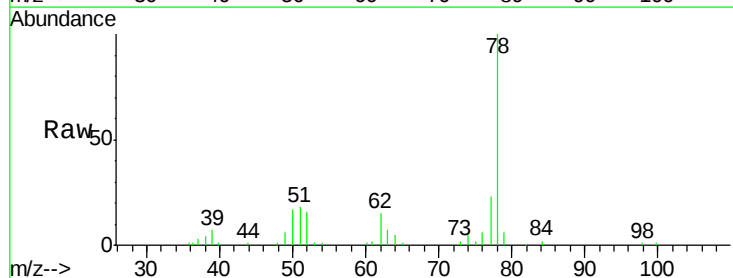
RT: 5.37 min Scan# 1330

Delta R.T. -0.00 min

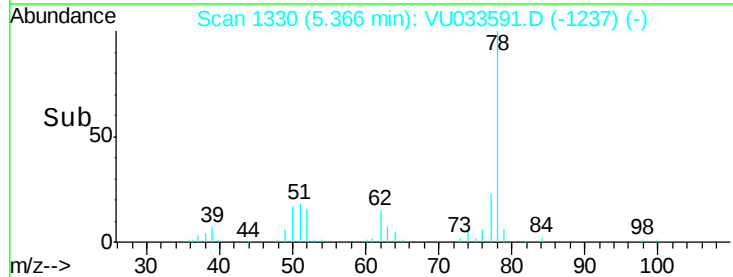
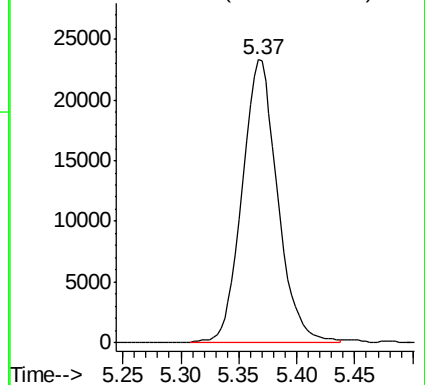
Lab File: VU033591.D

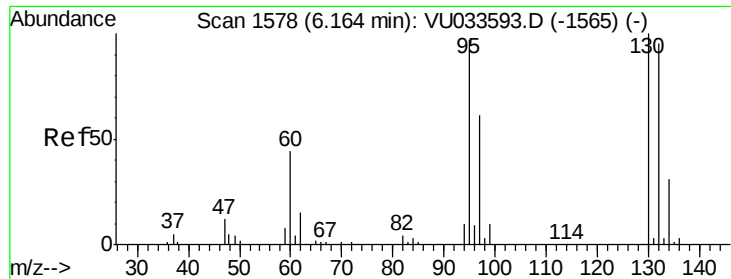
Acq: 05 Aug 2019 10:10

Tgt Ion: 78 Resp: 49849



Abundance Ion 78.00 (77.70 to 78.70): VU0

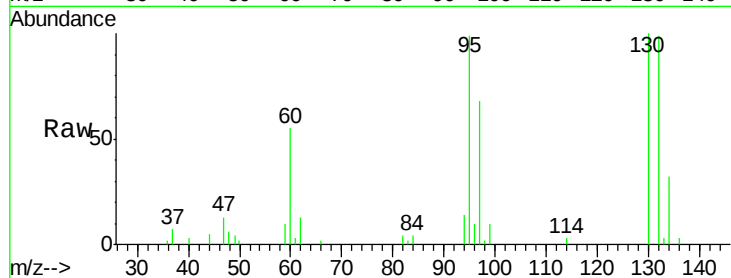




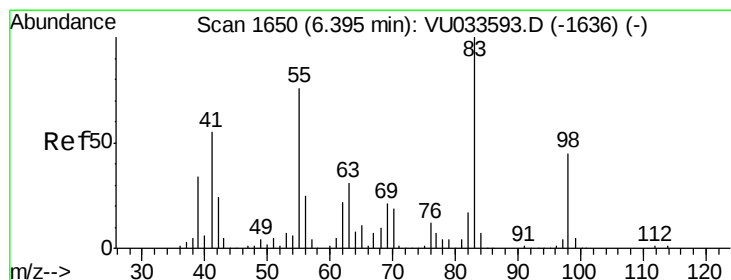
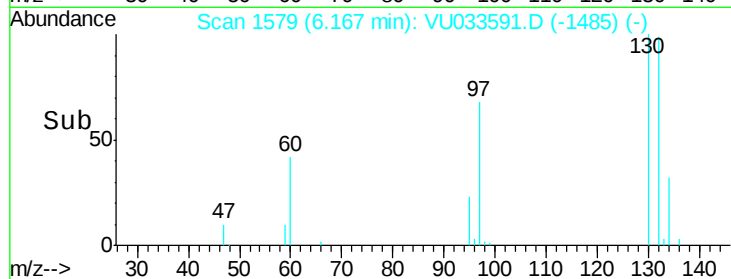
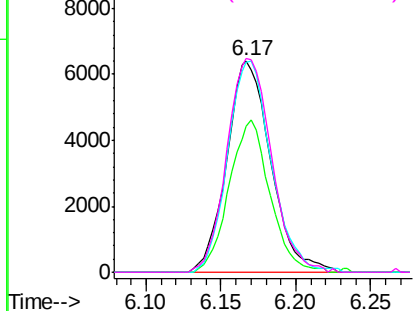
#34
 Trichloroethene
 Concen: 4.892 ug/L
 RT: 6.17 min Scan# 1579
 Delta R.T. 0.00 min
 Lab File: VU033591.D
 Acq: 05 Aug 2019 10:10

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 95 Resp: 13160
 Ion Ratio Lower Upper
 95 100
 97 69.1 43.8 81.4
 132 99.5 68.6 127.4
 130 101.0 72.2 134.2

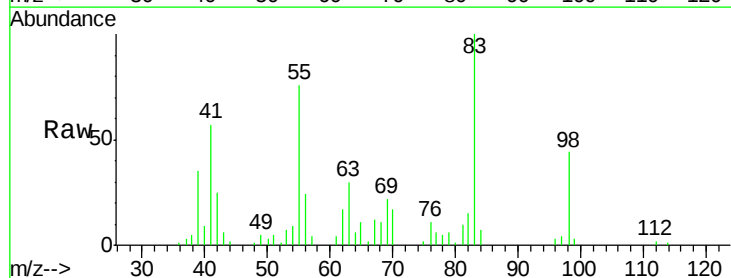


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

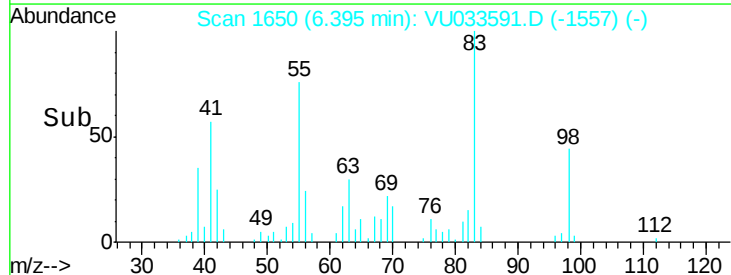
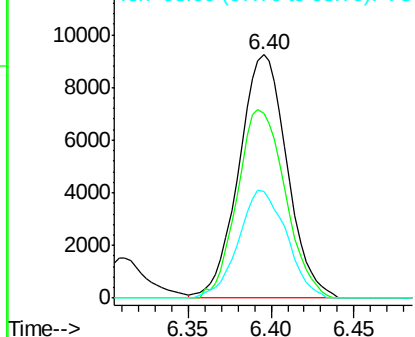


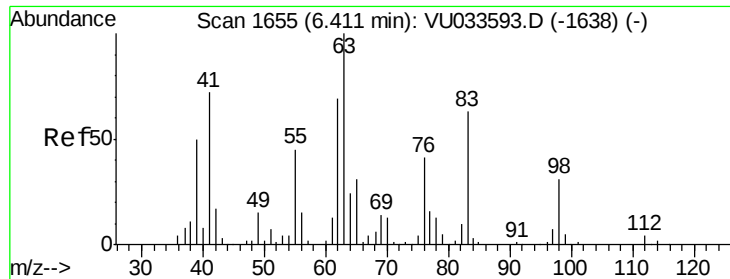
#35
 Methylcyclohexane
 Concen: 4.585 ug/L
 RT: 6.40 min Scan# 1650
 Delta R.T. -0.00 min
 Lab File: VU033591.D
 Acq: 05 Aug 2019 10:10

Tgt Ion: 83 Resp: 18725
 Ion Ratio Lower Upper
 83 100
 55 77.3 60.1 90.1
 98 44.2 36.8 55.2



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

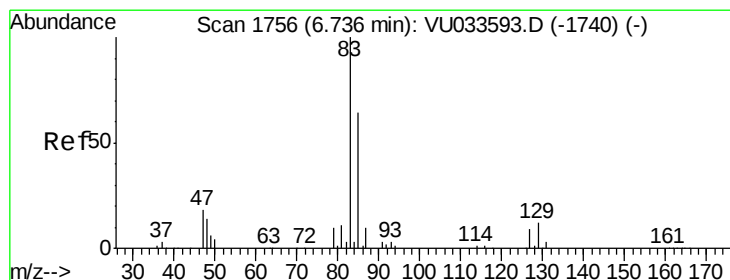
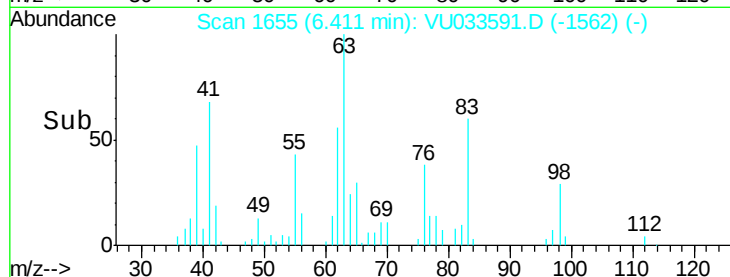
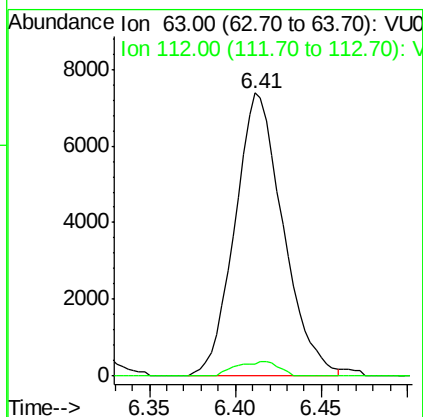
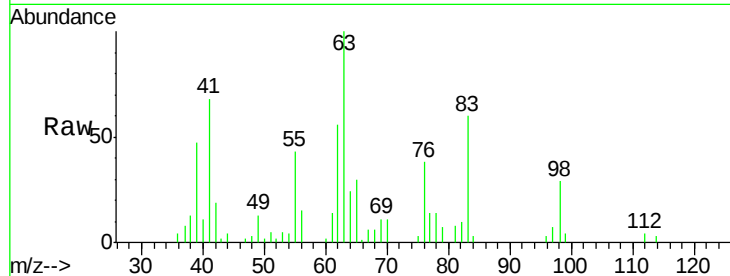




#37
 1,2-Dichloropropane
 Concen: 5.152 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: VU033591.D
 Acq: 05 Aug 2019 10:10

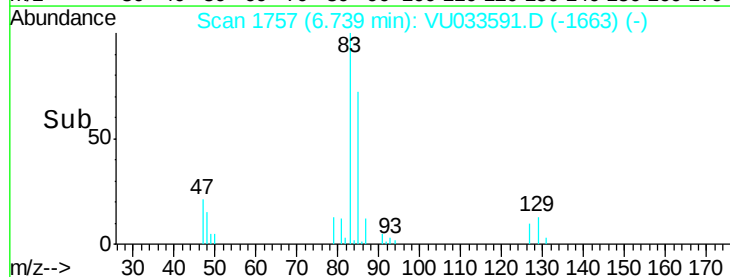
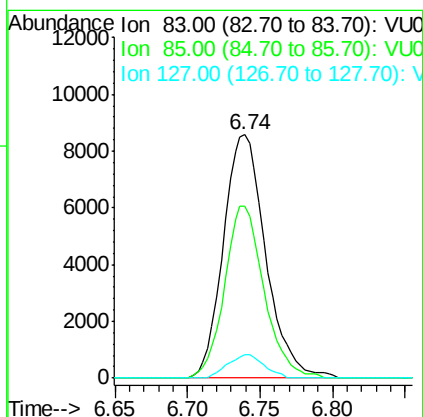
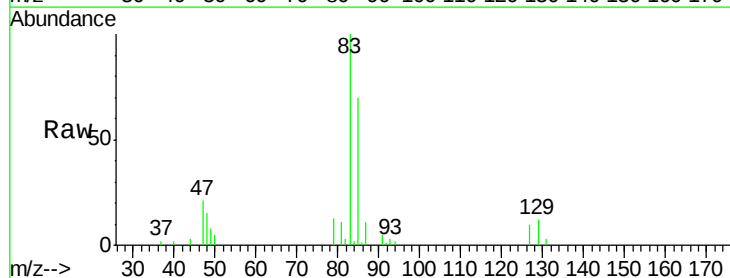
Instrument :
 MSVOA_U
 ClientSampleId :

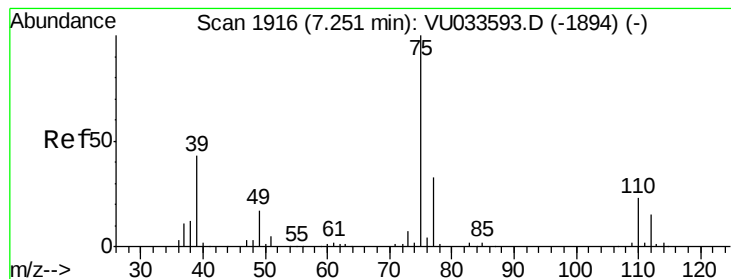
Tot Ion: 63 Resp: 14405
 Ion Ratio Lower Upper
 63 100
 112 4.5 3.0 4.6



#38
 Bromodichloromethane
 Concen: 4.793 ug/L
 RT: 6.74 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: VU033591.D
 Acq: 05 Aug 2019 10:10

Tgt Ion: 83 Resp: 17366
 Ion Ratio Lower Upper
 83 100
 85 70.5 44.9 83.5
 127 9.8 7.0 10.4



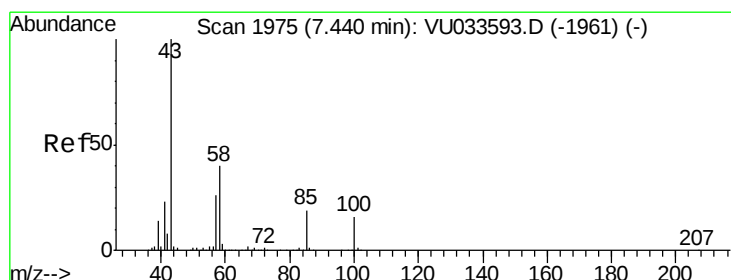
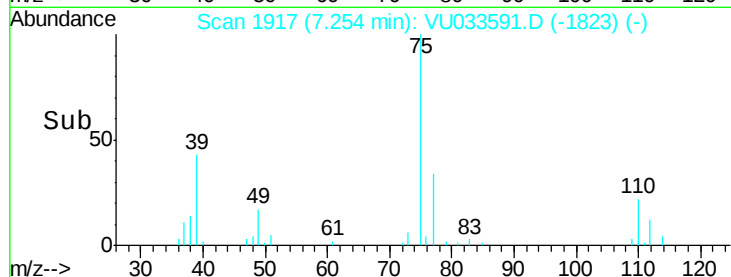
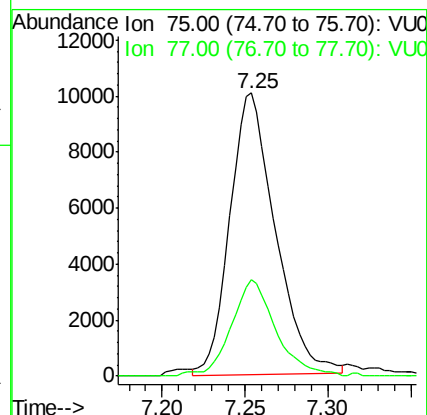
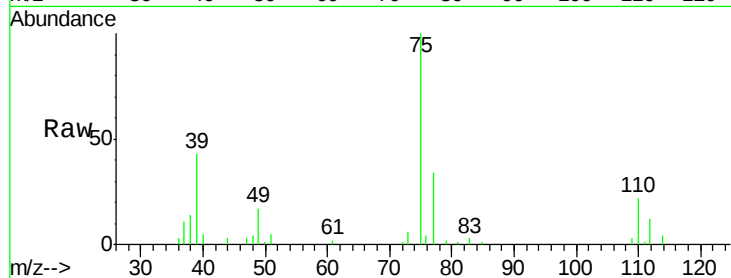


#39

cis-1,3-Dichloropropene
 Concen: 4.479 ug/L
 RT: 7.25 min Scan# 1917
 Delta R.T. 0.00 min
 Lab File: VU033591.D
 Acq: 05 Aug 2019 10:10

Instrument :
 MSVOA_U
 ClientSampleId :

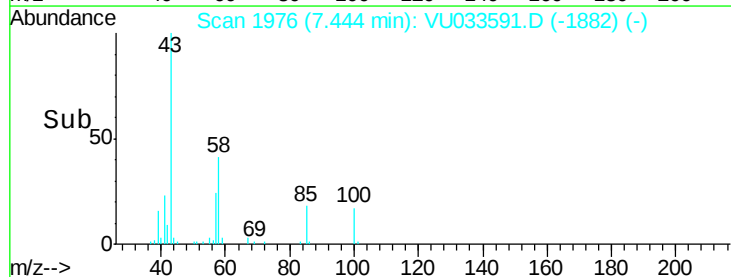
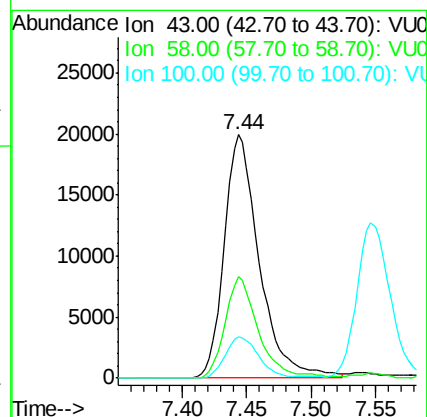
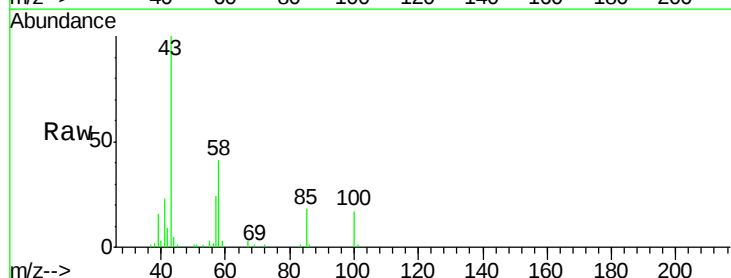
Tot Ion: 75 Resp: 19162
 Ion Ratio Lower Upper
 75 100
 77 34.0 22.7 42.3

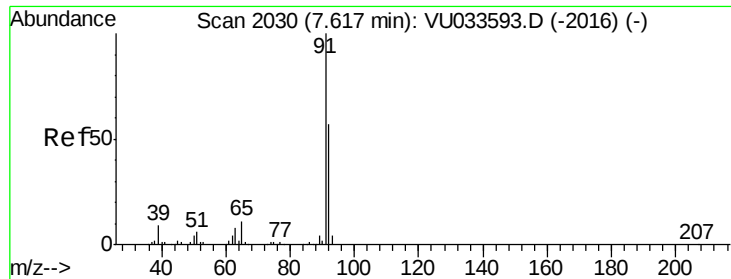


#40

4-Methyl-2-pentanone
 Concen: 9.320 ug/L
 RT: 7.44 min Scan# 1976
 Delta R.T. 0.00 min
 Lab File: VU033591.D
 Acq: 05 Aug 2019 10:10

Tgt Ion: 43 Resp: 37661
 Ion Ratio Lower Upper
 43 100
 58 38.5 32.5 48.7
 100 16.1 12.6 18.8





#42

Toluene

Concen: 4.624 ug/L

RT: 7.62 min Scan# 2031

Delta R.T. 0.00 min

Lab File: VU033591.D

Acq: 05 Aug 2019 10:10

Instrument :

MSVOA_U

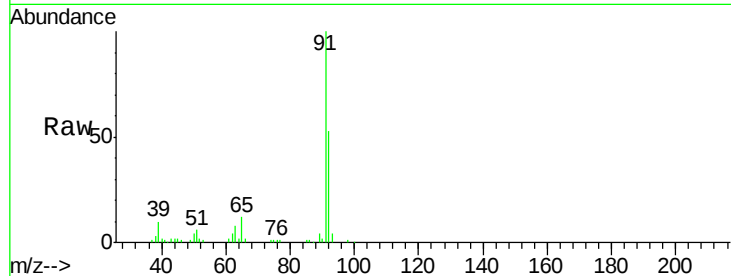
ClientSampleId :

Tot Ion: 91 Resp: 51126

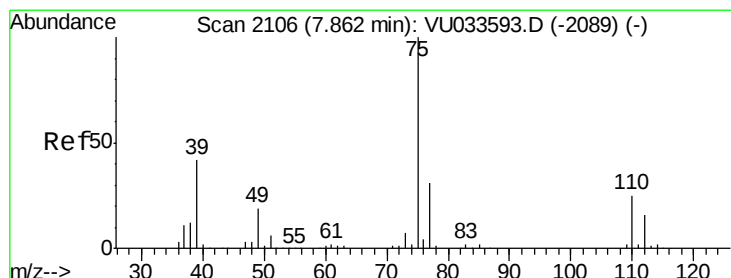
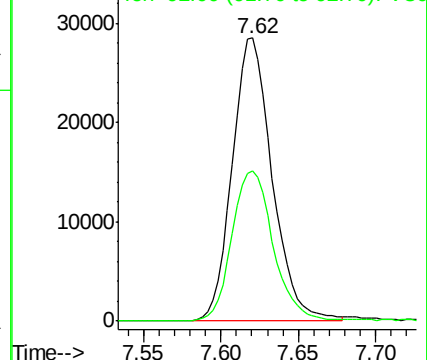
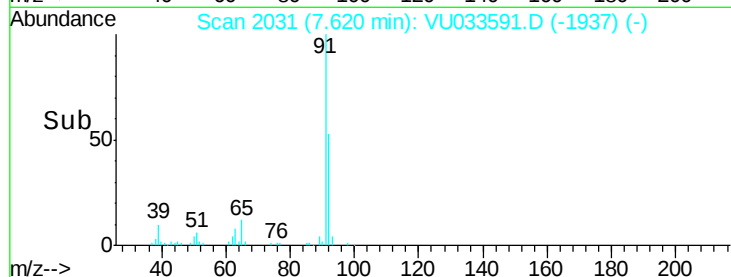
Ion Ratio Lower Upper

91 100

92 53.2 40.0 74.2



Abundance Ion 91.00 (90.70 to 91.70): VU033591.D (-1937) (-)



#44

trans-1,3-Dichloropropene

Concen: 4.463 ug/L

RT: 7.86 min Scan# 2107

Delta R.T. 0.00 min

Lab File: VU033591.D

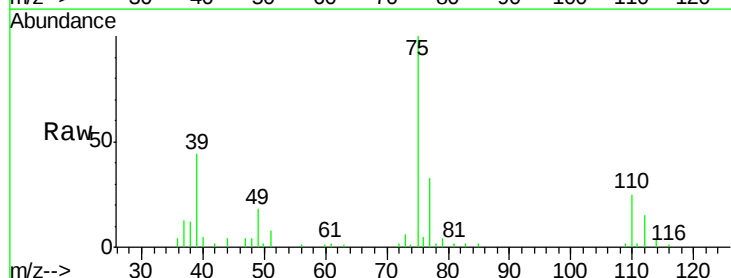
Acq: 05 Aug 2019 10:10

Tgt Ion: 75 Resp: 17437

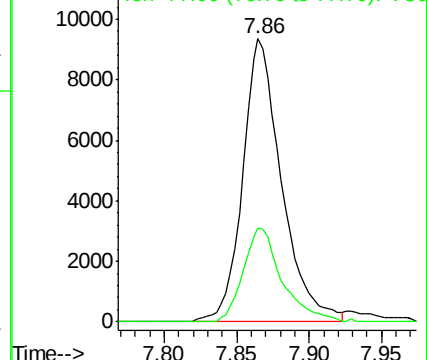
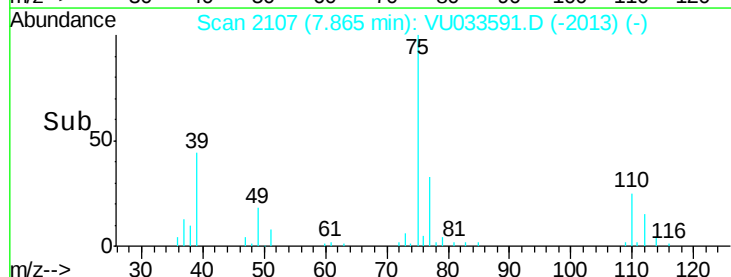
Ion Ratio Lower Upper

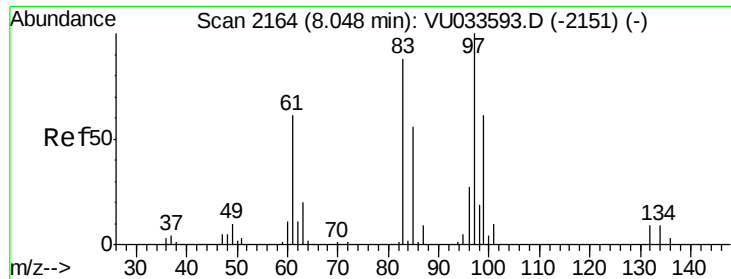
75 100

77 33.0 21.6 40.2



Abundance Ion 75.00 (74.70 to 75.70): VU033591.D (-2013) (-)

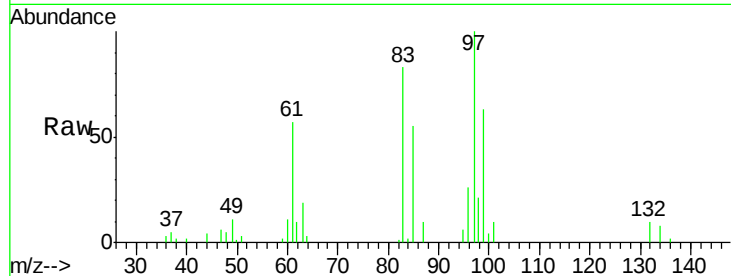




#45
 1,1,2-Trichloroethane
 Concen: 5.038 ug/L
 RT: 8.05 min Scan# 2165
 Delta R.T. 0.00 min
 Lab File: VU033591.D
 Acq: 05 Aug 2019 10:10

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	97	Resp:	13471
Ion	Ratio	Lower	Upper
97	100		
99	62.8	42.8	79.6
83	82.9	61.3	113.9
85	55.0	39.1	72.5



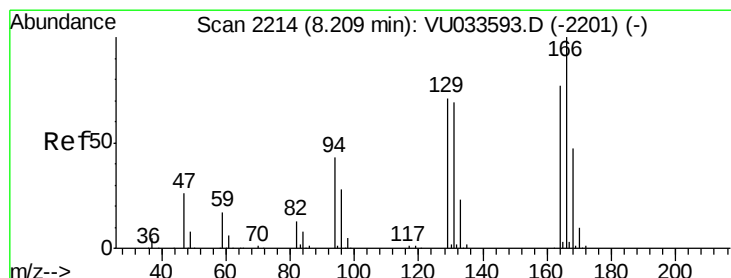
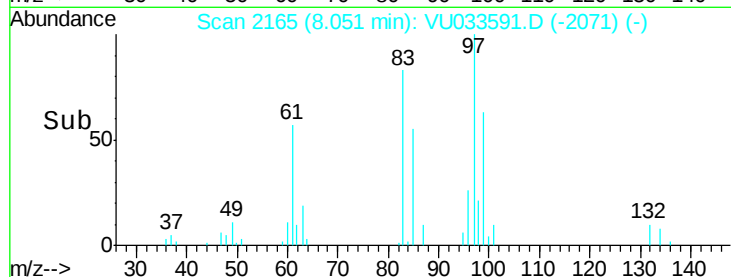
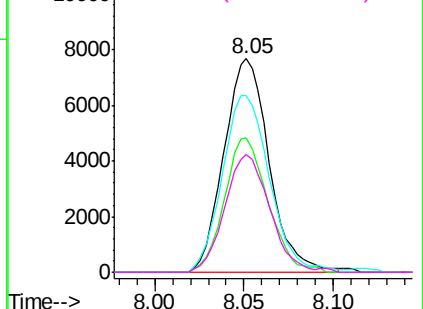
Abundance

Ion 97.00 (96.70 to 97.70): VU033591.D (-2164) (-)

Ion 99.00 (98.70 to 99.70): VU033591.D (-2164) (-)

Ion 83.00 (82.70 to 83.70): VU033591.D (-2164) (-)

Ion 85.00 (84.70 to 85.70): VU033591.D (-2164) (-)



#46
 Tetrachloroethene
 Concen: 4.705 ug/L
 RT: 8.21 min Scan# 2215
 Delta R.T. 0.00 min
 Lab File: VU033591.D
 Acq: 05 Aug 2019 10:10

Tgt Ion:	164	Resp:	10197
Ion	Ratio	Lower	Upper
164	100		
129	93.6	64.1	119.1
131	92.0	62.9	116.7
166	133.7	90.5	168.1

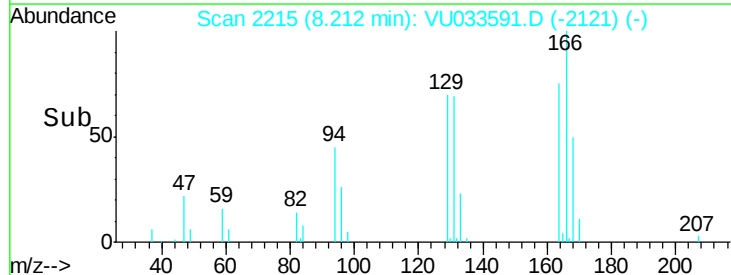
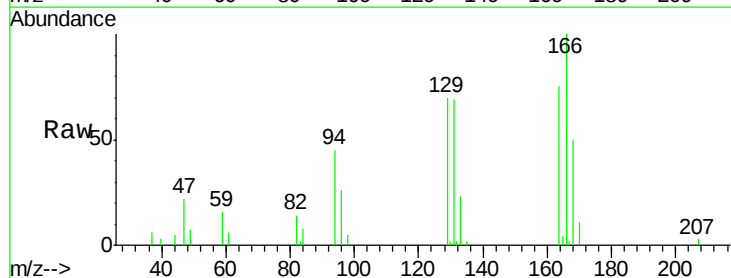
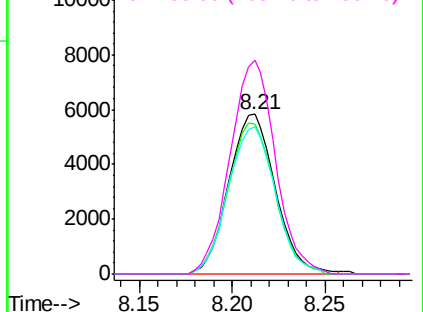
Abundance

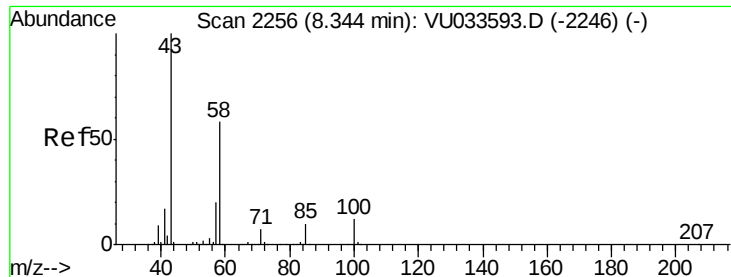
Ion 164.00 (163.70 to 164.70): VU033591.D (-2214) (-)

Ion 129.00 (128.70 to 129.70): VU033591.D (-2214) (-)

Ion 131.00 (130.70 to 131.70): VU033591.D (-2214) (-)

Ion 166.00 (165.70 to 166.70): VU033591.D (-2214) (-)

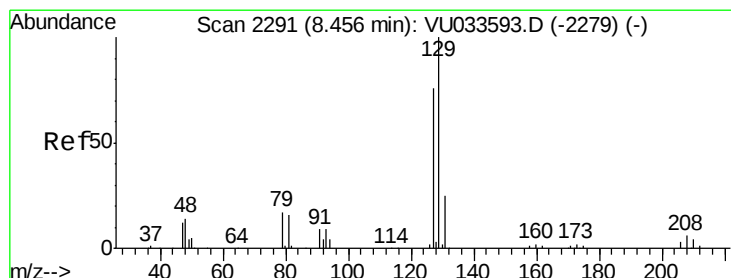
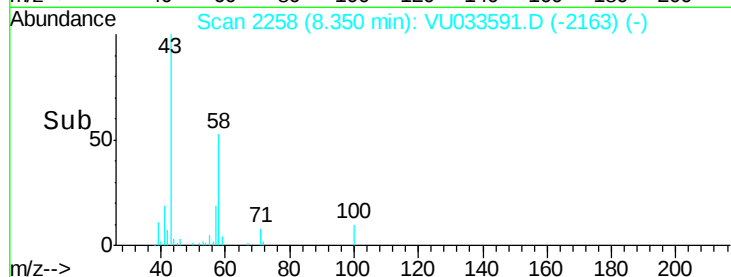
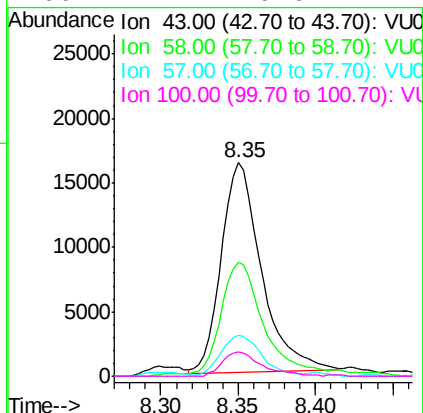
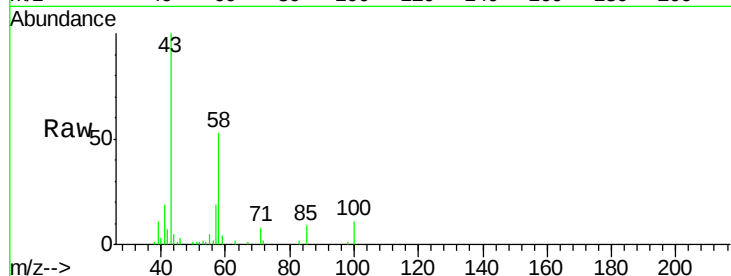




#48
2-Hexanone
Concen: 9.094 ug/L
RT: 8.35 min Scan# 2258
Delta R.T. 0.01 min
Lab File: VU033591.D
Acq: 05 Aug 2019 10:10

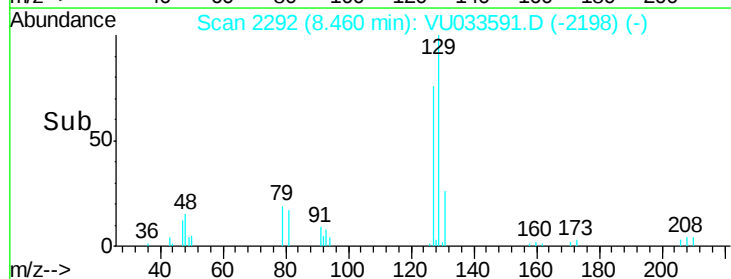
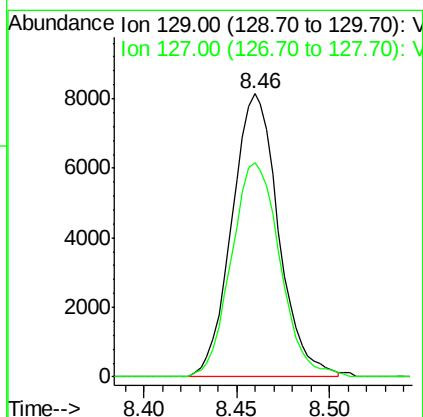
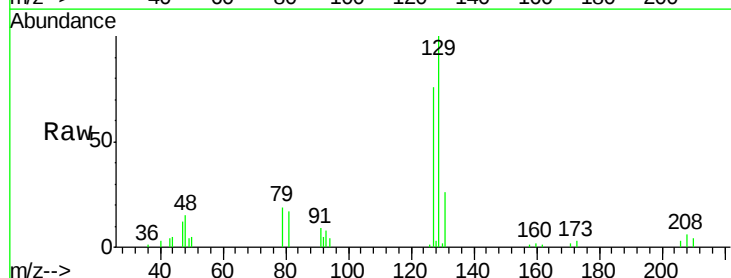
Instrument :
MSVOA_U
ClientSampled :

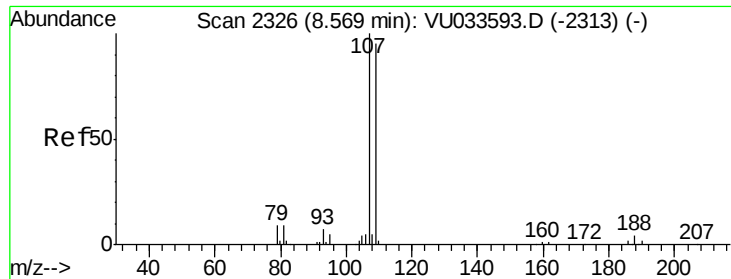
Tot Ion:	43	Resp:	29601
Ion	Ratio	Lower	Upper
43	100		
58	54.9	45.2	67.8
57	18.2	15.4	23.2
100	11.4	9.6	14.4



#49
Dibromochloromethane
Concen: 4.717 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033591.D
Acq: 05 Aug 2019 10:10

Tgt Ion:	129	Resp:	14228
Ion	Ratio	Lower	Upper
129	100		
127	75.7	53.4	99.2





#50

1,2-Dibromoethane

Concen: 4.966 ug/L

RT: 8.57 min Scan# 2326

Delta R.T. -0.00 min

Lab File: VU033591.D

Acq: 05 Aug 2019 10:10

Instrument :

MSVOA_U

ClientSampleId :

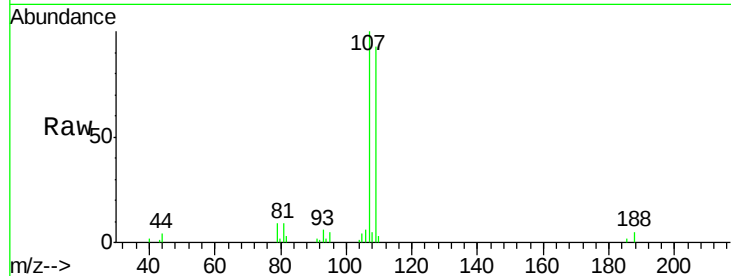
Tot Ion:107 Resp: 14397

Ion Ratio Lower Upper

107 100

109 93.1 66.5 123.5

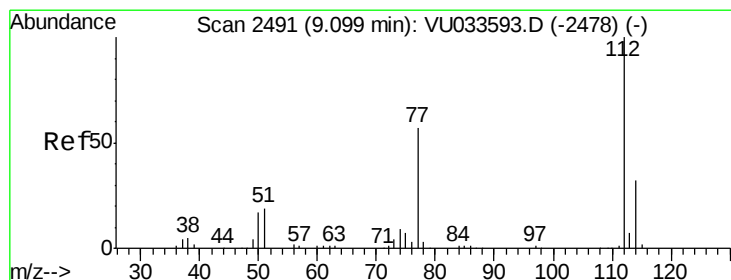
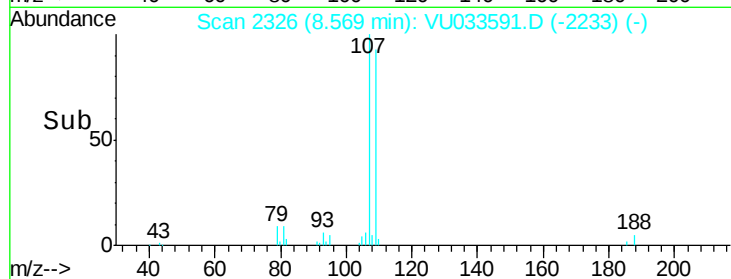
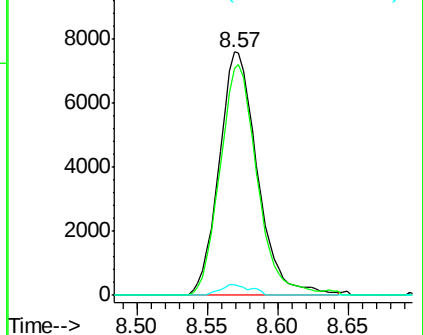
188 4.5 3.0 4.6



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: 4.926 ug/L

RT: 9.10 min Scan# 2492

Delta R.T. 0.00 min

Lab File: VU033591.D

Acq: 05 Aug 2019 10:10

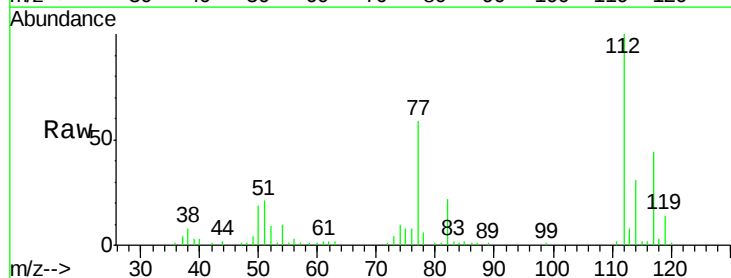
Tgt Ion:112 Resp: 35620

Ion Ratio Lower Upper

112 100

114 30.5 22.5 41.9

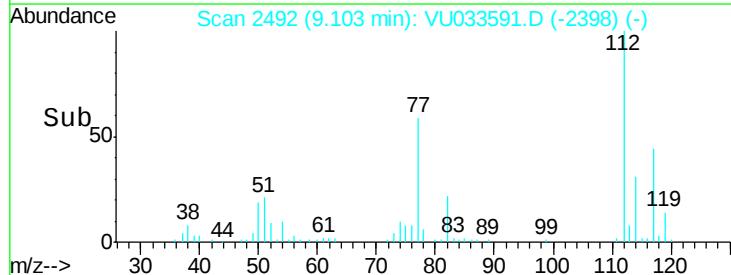
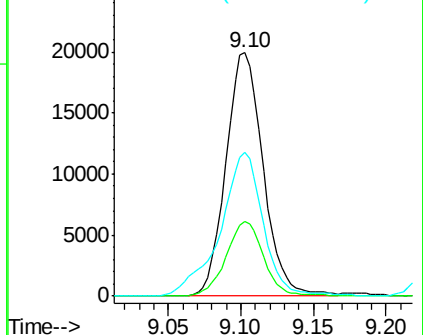
77 58.9 46.1 69.1

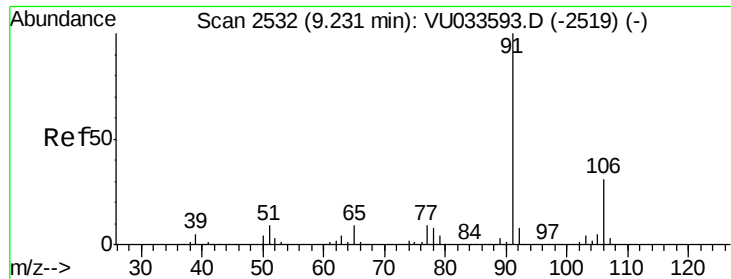


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU0





#52

Ethylbenzene

Concen: 4.671 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033591.D

Acq: 05 Aug 2019 10:10

Instrument :

MSVOA_U

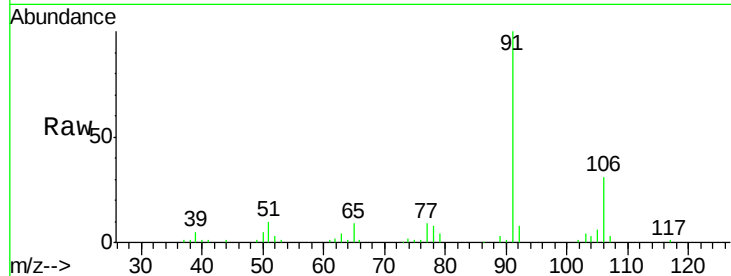
ClientSampleId :

Tot Ion: 91 Resp: 55008

Ion Ratio Lower Upper

91 100

106 31.4 21.8 40.4



Abundance Ion 91.00 (90.70 to 91.70): VU033591.D (-2519) (-)

Ion 106.00 (105.70 to 106.70): VU033591.D (-2519) (-)

9.23

30000

20000

10000

0

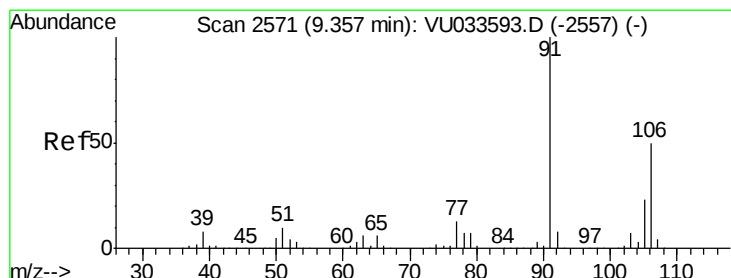
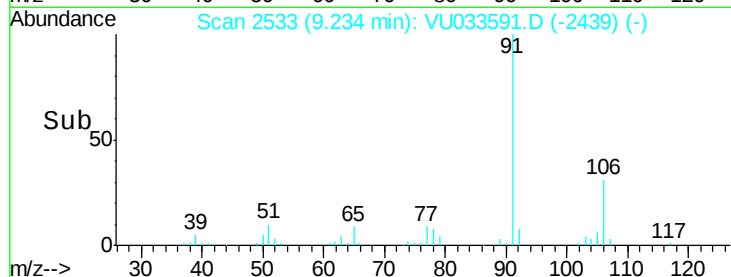
Time-->

9.15

9.20

9.25

9.30



#53

m,p-Xylene

Concen: 4.536 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033591.D

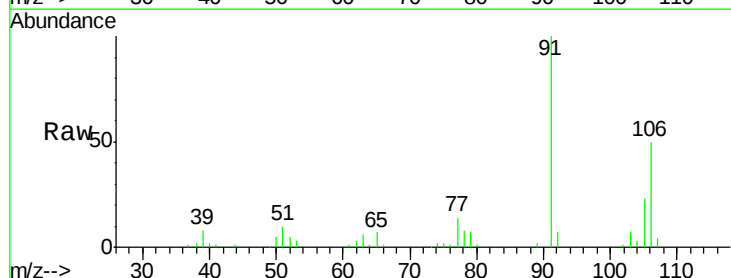
Acq: 05 Aug 2019 10:10

Tgt Ion: 106 Resp: 20350

Ion Ratio Lower Upper

106 100

91 200.0 141.3 262.5



Abundance Ion 106.00 (105.70 to 106.70): VU033591.D (-2557) (-)

Ion 91.00 (90.70 to 91.70): VU033591.D (-2557) (-)

9.36

25000

20000

15000

10000

5000

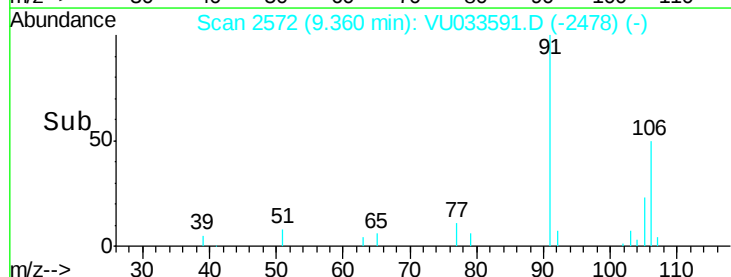
0

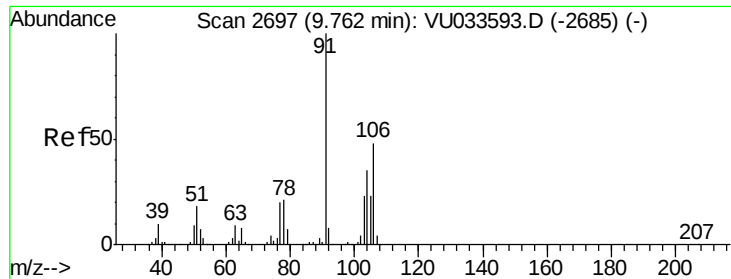
Time-->

9.30

9.35

9.40





#54

o-xylene

Concen: 4.473 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. -0.00 min

Lab File: VU033591.D

Acq: 05 Aug 2019 10:10

Instrument :

MSVOA_U

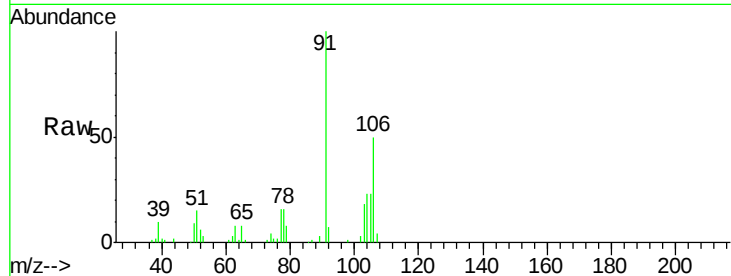
ClientSampleId :

Tot Ion:106 Resp: 19778

Ion Ratio Lower Upper

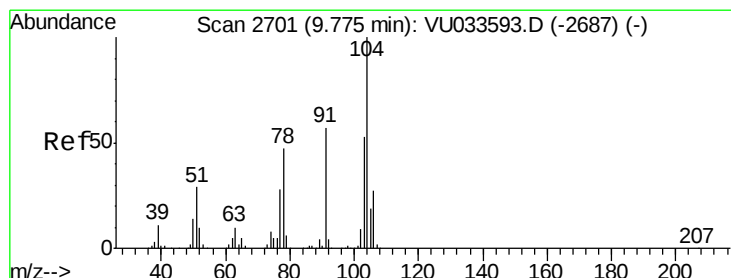
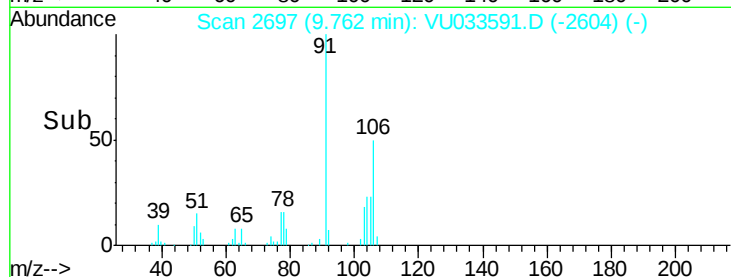
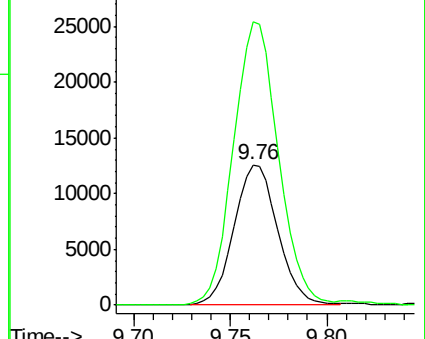
106 100

91 202.0 146.6 272.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 4.297 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU033591.D

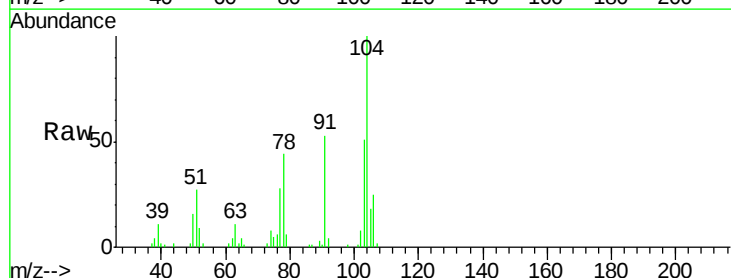
Acq: 05 Aug 2019 10:10

Tgt Ion:104 Resp: 32224

Ion Ratio Lower Upper

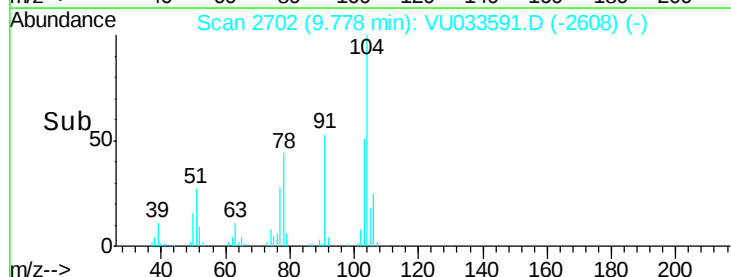
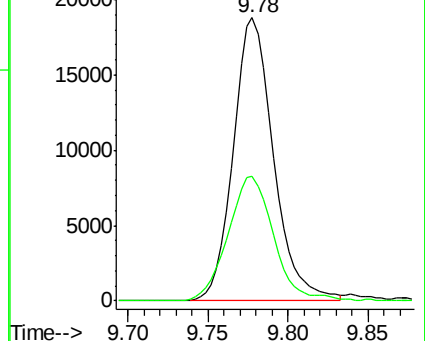
104 100

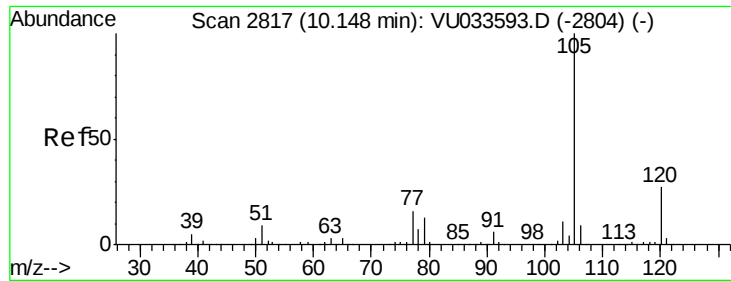
78 43.9 32.9 61.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 4.341 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. 0.00 min

Lab File: VU033591.D

Acq: 05 Aug 2019 10:10

Instrument :

MSVOA_U

ClientSampleId :

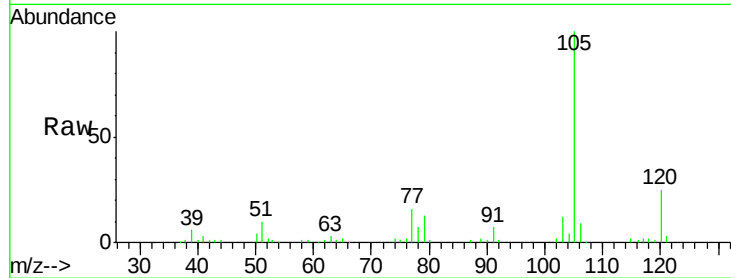
Tot Ion:105 Resp: 49716

Ion Ratio Lower Upper

105 100

120 26.6 21.4 32.2

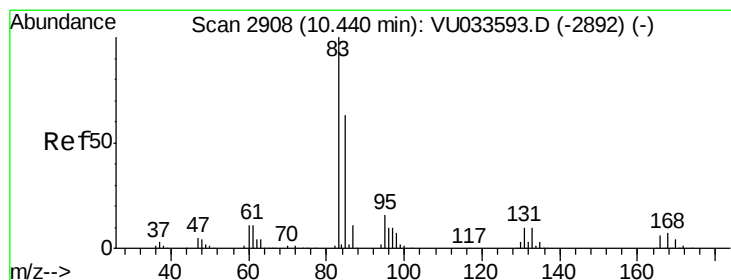
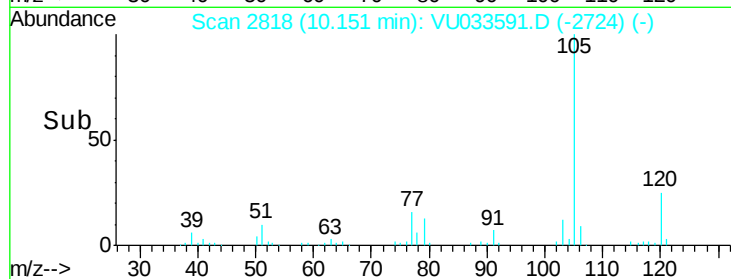
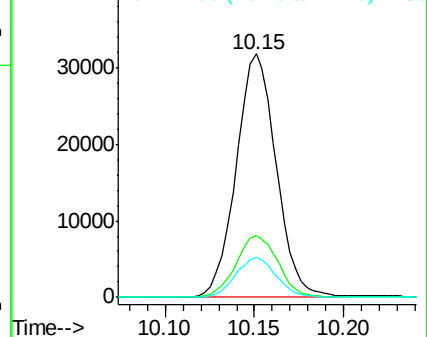
77 16.7 12.6 18.8



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: 4.866 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VU033591.D

Acq: 05 Aug 2019 10:10

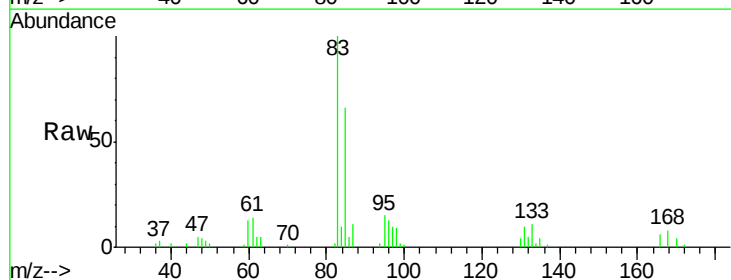
Tgt Ion: 83 Resp: 23290

Ion Ratio Lower Upper

83 100

85 65.7 44.3 82.3

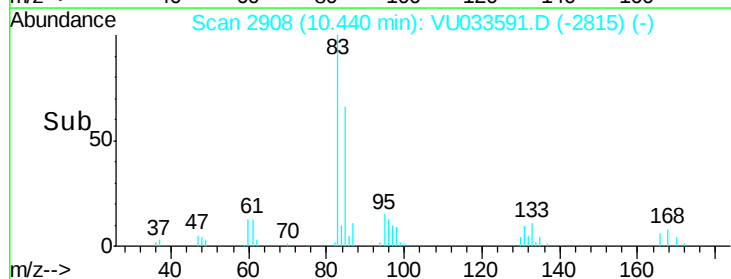
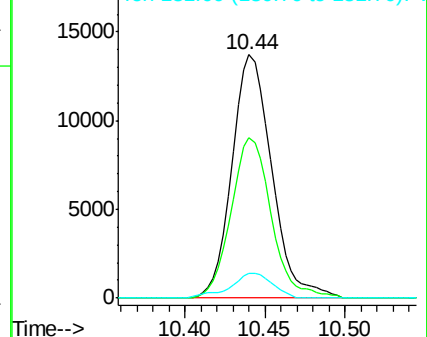
131 10.1 7.8 11.6

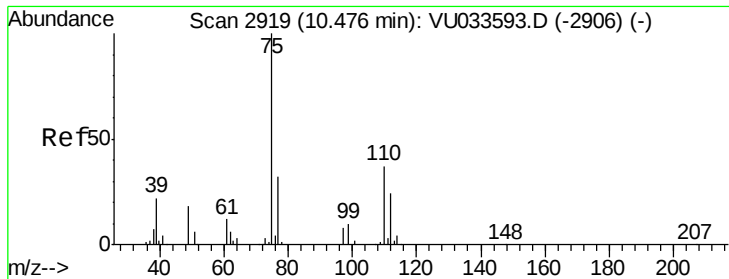


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

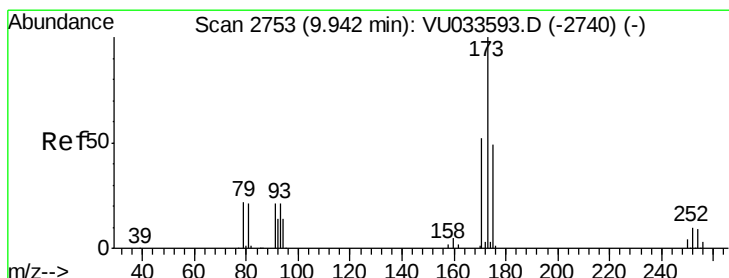
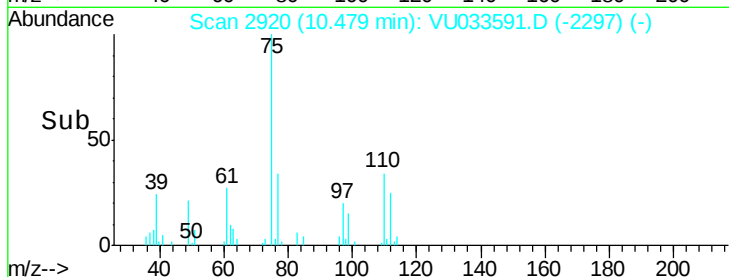
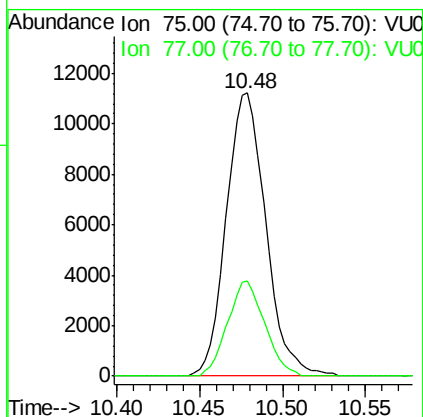
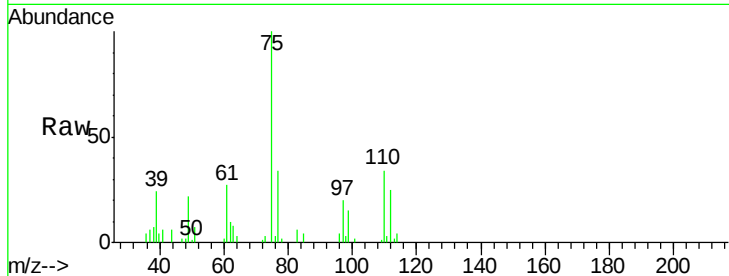




#59
 1,2,3-Trichloropropane
 Concen: 4.929 ug/L
 RT: 10.48 min Scan# 2920
 Delta R.T. 0.00 min
 Lab File: VU033591.D
 Acq: 05 Aug 2019 10:10

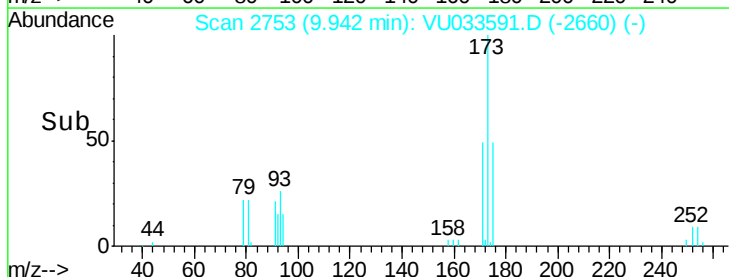
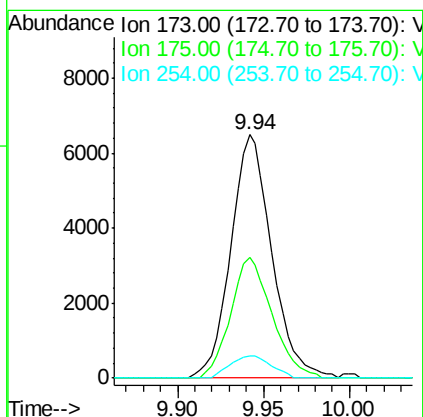
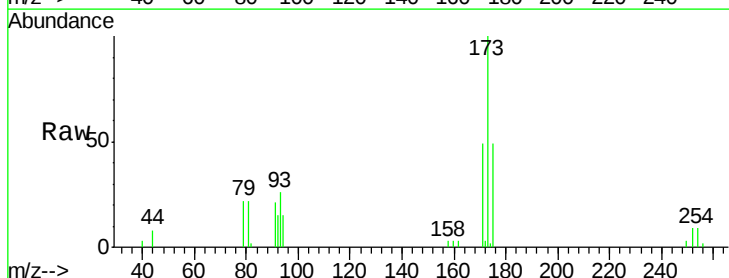
Instrument :
 MSVOA_U
 ClientSampleId :

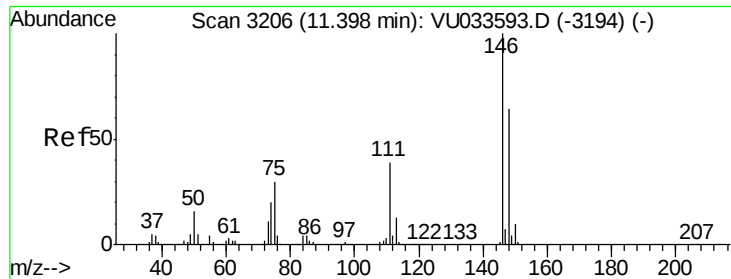
Tot Ion: 75 Resp: 18603
 Ion Ratio Lower Upper
 75 100
 77 31.6 25.7 38.5



#61
 Bromoform
 Concen: 4.880 ug/L
 RT: 9.94 min Scan# 2753
 Delta R.T. -0.00 min
 Lab File: VU033591.D
 Acq: 05 Aug 2019 10:10

Tgt Ion: 173 Resp: 10782
 Ion Ratio Lower Upper
 173 100
 175 49.9 39.4 59.0
 254 9.0 7.2 10.8

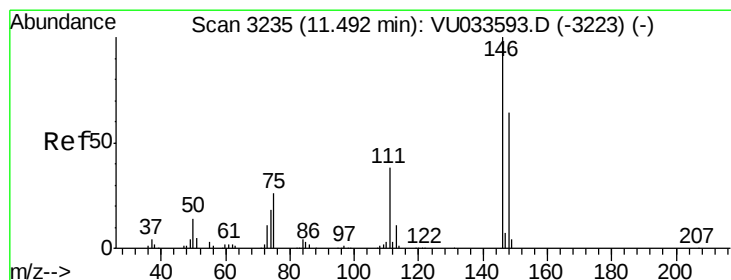
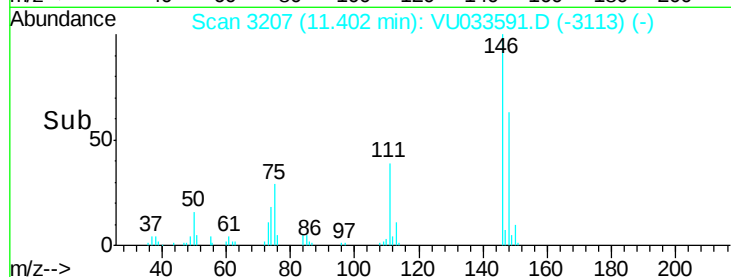
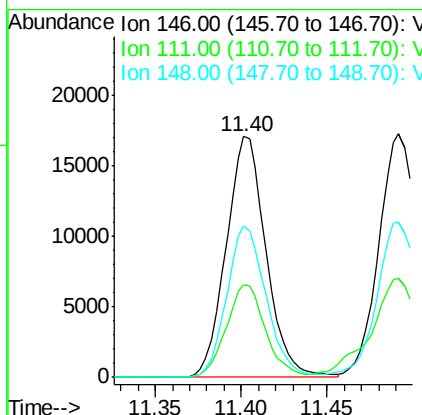
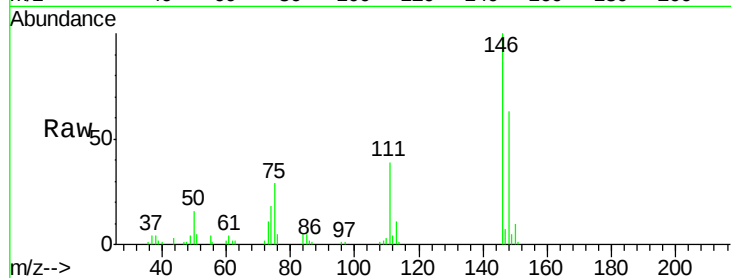




#62
 1,3-Dichlorobenzene
 Concen: 4.966 ug/L
 RT: 11.40 min Scan# 3207
 Delta R.T. 0.00 min
 Lab File: VU033591.D
 Acq: 05 Aug 2019 10:10

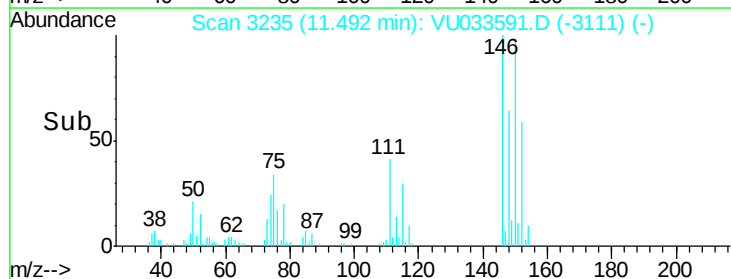
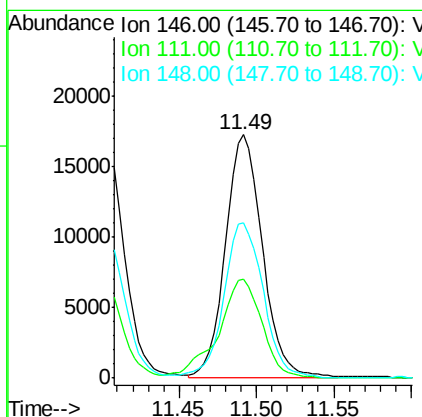
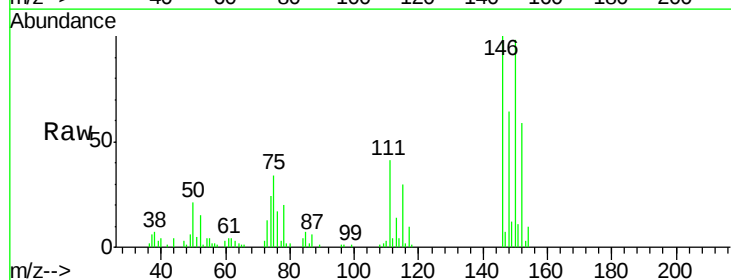
Instrument :
 MSVOA_U
 ClientSampleId :

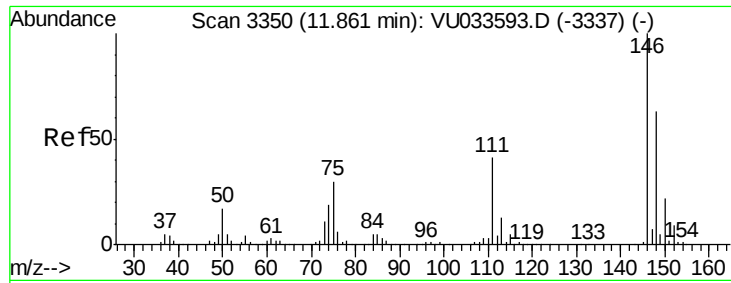
Tot Ion:146 Resp: 27586
 Ion Ratio Lower Upper
 146 100
 111 38.7 27.5 51.1
 148 62.8 44.5 82.7



#63
 1,4-Dichlorobenzene
 Concen: 5.054 ug/L
 RT: 11.49 min Scan# 3235
 Delta R.T. -0.00 min
 Lab File: VU033591.D
 Acq: 05 Aug 2019 10:10

Tgt Ion:146 Resp: 28751
 Ion Ratio Lower Upper
 146 100
 111 40.6 26.9 49.9
 148 63.6 44.9 83.3





#65

1,2-Dichlorobenzene

Concen: 4.823 ug/L

RT: 11.86 min Scan# 3351

Delta R.T. 0.00 min

Lab File: VU033591.D

Acq: 05 Aug 2019 10:10

Instrument :

MSVOA_U

ClientSampleId :

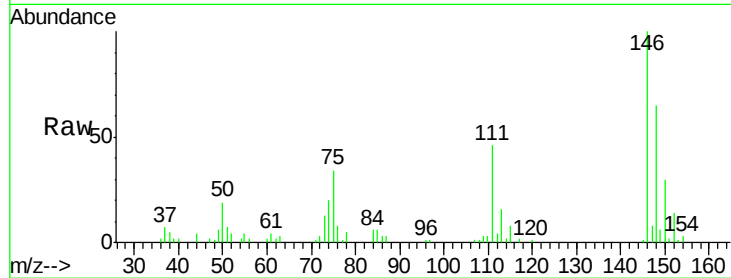
Tot Ion:146 Resp: 26809

Ion Ratio Lower Upper

146 100

111 45.7 33.0 49.6

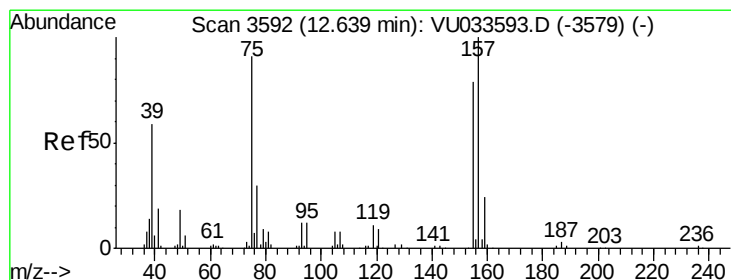
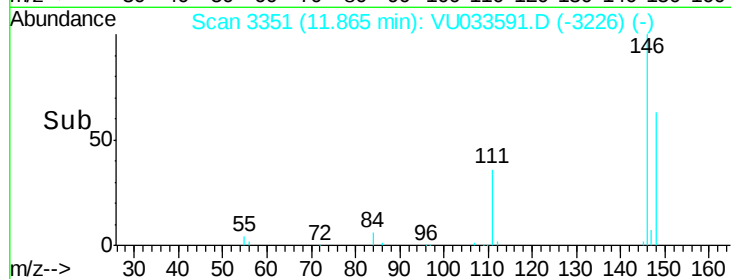
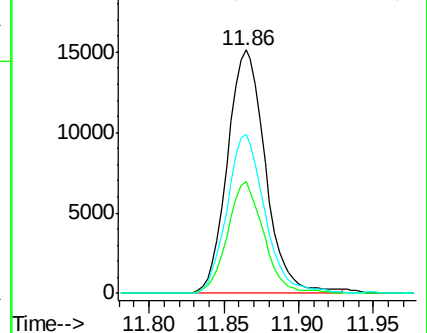
148 65.1 50.6 75.8



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



#66

1,2-Dibromo-3-chloropropane

Concen: 4.597 ug/L

RT: 12.65 min Scan# 3594

Delta R.T. 0.01 min

Lab File: VU033591.D

Acq: 05 Aug 2019 10:10

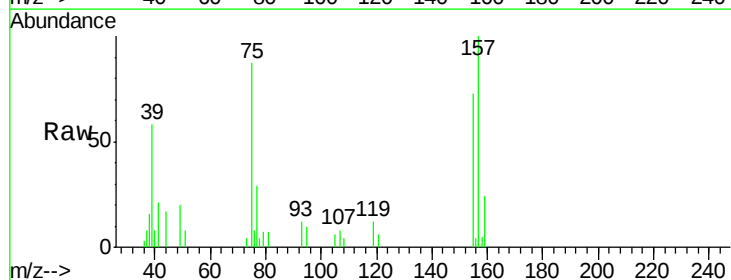
Tgt Ion: 75 Resp: 4900

Ion Ratio Lower Upper

75 100

155 84.3 69.0 103.6

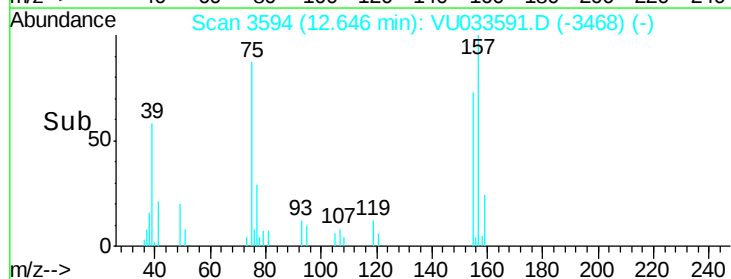
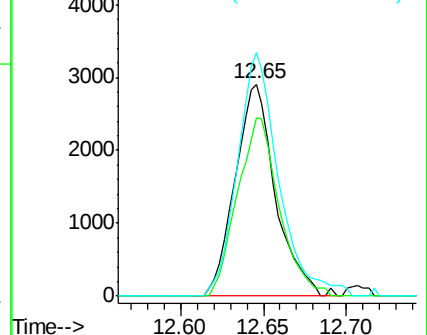
157 114.9 87.8 131.8

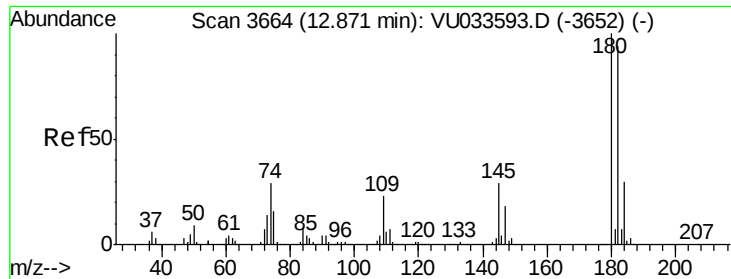


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

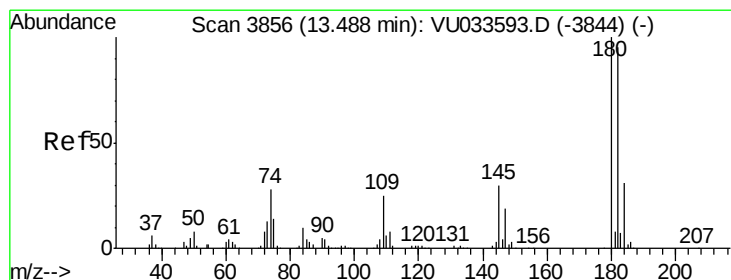
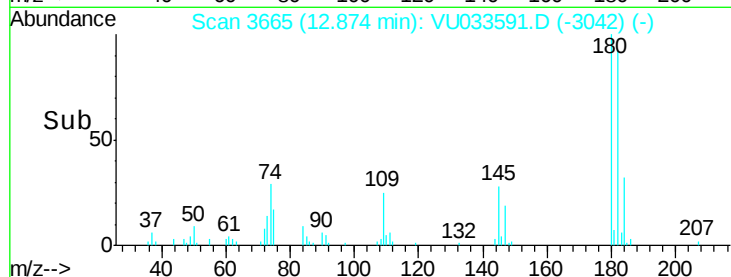
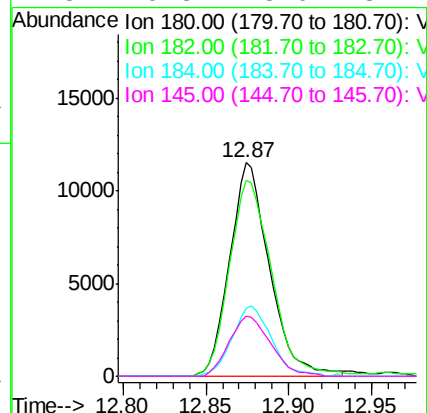
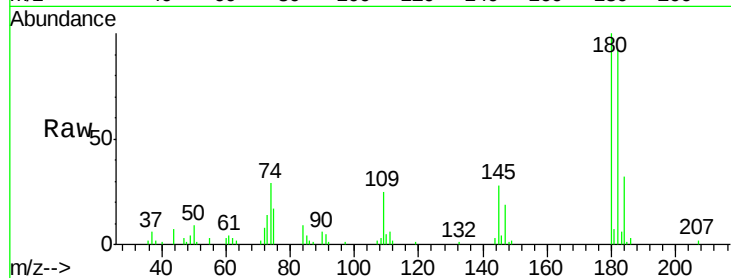




#67
 1,3,5-Trichlorobenzene
 Concen: 4.492 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. 0.00 min
 Lab File: VU033591.D
 Acq: 05 Aug 2019 10:10

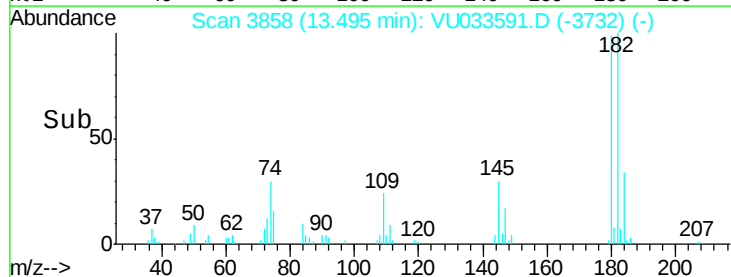
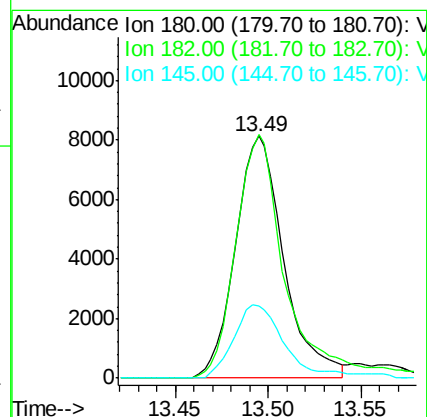
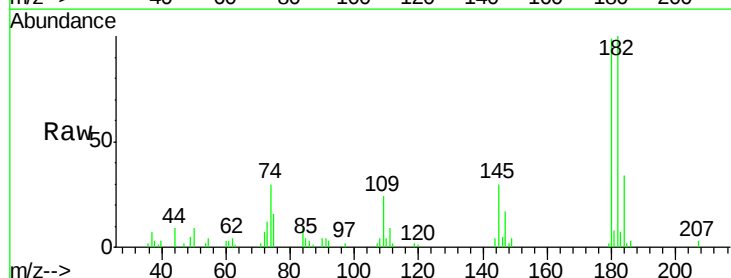
Instrument :
 MSVOA_U
 ClientSampleId :

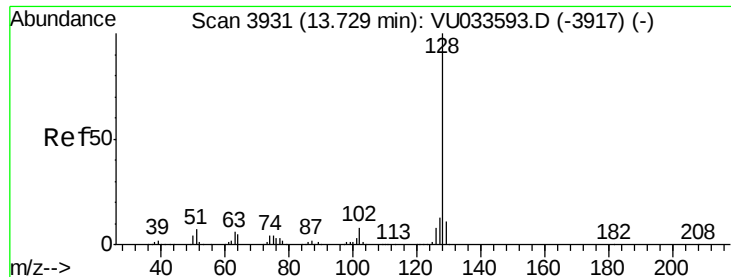
Tot Ion:180	Resp:	19266
Ion Ratio	Lower	Upper
180	100	
182	97.0	76.2 114.2
184	32.3	24.2 36.4
145	29.3	23.0 34.4



#68
 1,2,4-trichlorobenzene
 Concen: 4.078 ug/L
 RT: 13.49 min Scan# 3858
 Delta R.T. 0.01 min
 Lab File: VU033591.D
 Acq: 05 Aug 2019 10:10

Tgt Ion:180	Resp:	14707
Ion Ratio	Lower	Upper
180	100	
182	101.7	76.7 115.1
145	30.3	23.5 35.3





#69

Naphthalene

Concen: 3.796 ug/L

RT: 13.73 min Scan# 3932

Delta R.T. 0.00 min

Lab File: VU033591.D

Acq: 05 Aug 2019 10:10

Instrument :

MSVOA_U

ClientSampleId :

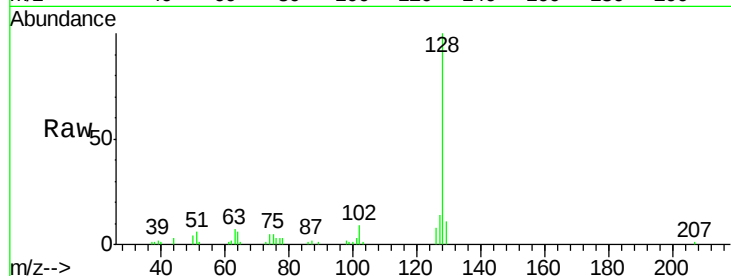
Tot Ion:128 Resp: 39770

Ion Ratio Lower Upper

128 100

127 12.3 10.6 15.8

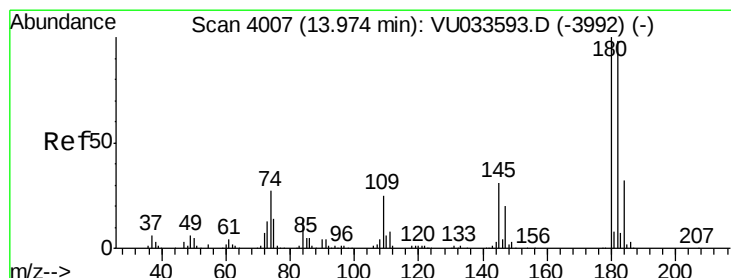
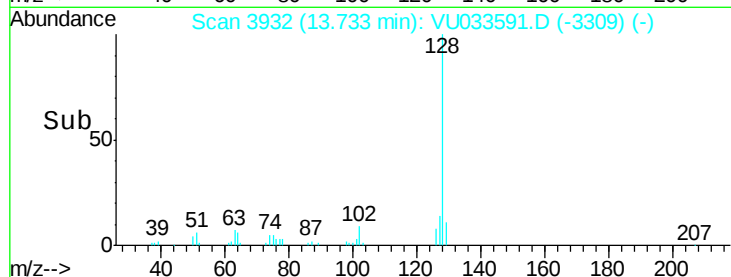
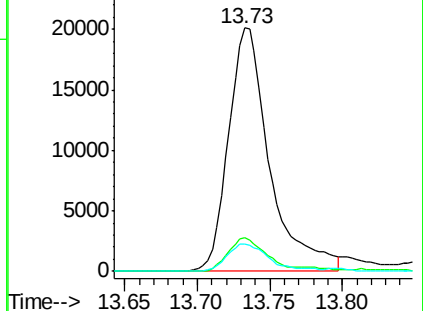
129 11.1 8.6 12.8



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: 4.502 ug/L

RT: 13.98 min Scan# 4008

Delta R.T. 0.00 min

Lab File: VU033591.D

Acq: 05 Aug 2019 10:10

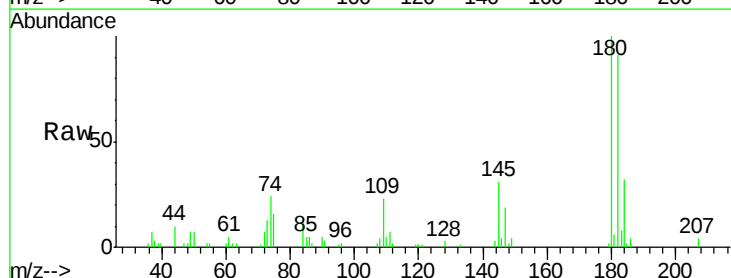
Tgt Ion:180 Resp: 17356

Ion Ratio Lower Upper

180 100

182 96.6 77.4 116.2

145 29.0 24.5 36.7



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

