

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081920\
 Data File : VU039899.D
 Acq On : 19 Aug 2020 10:19
 Operator : SY/MD
 Sample : VSTD00504
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00504

Quant Time: Aug 20 07:41:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR081920WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Aug 20 07:38:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	73176	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	75487	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	41402	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	30354	6.94	ug/L	0.00
7) Chloroethane-d5	1.92	69	25876	5.73	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.58	63	61335	6.93	ug/L	0.00
20) 2-Butanone-d5	4.67	46	99021	55.14	ug/L	0.00
24) Chloroform-d	5.09	84	56854	5.55	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.72	65	30895	5.17	ug/L	0.00
32) Benzene-d6	5.75	84	105831	5.68	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.70	67	33943	5.37	ug/L	0.00
41) Toluene-d8	7.90	98	97116	5.84	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.19	79	14388	5.86	ug/L	0.00
46) 2-Hexanone-d5	8.64	63	77921	58.52	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.75	84	30439	5.02	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.19	152	40120	5.53	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.39	85	39594	6.211	ug/L 100
3) Chloromethane	1.53	50	42547	6.313	ug/L 100
5) Vinyl chloride	1.61	62	43024	6.563	ug/L 100
6) Bromomethane	1.87	94	23243	5.858	ug/L 100
8) Chloroethane	1.94	64	25267	5.541	ug/L 100
9) Trichlorofluoromethane	2.15	101	62031	6.251	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	36366	6.533	ug/L 100
12) 1,1-Dichloroethene	2.59	96	33052	6.788	ug/L 100
13) Acetone	2.68	43	69412	62.065	ug/L 100
14) Carbon disulfide	2.81	76	106430	6.917	ug/L 100
15) Methyl Acetate	2.97	43	17894	6.473	ug/L 100
16) Methylene chloride	3.06	84	38612	5.134	ug/L 100
17) Methyl tert-butyl Ether	3.38	73	84372	6.634	ug/L 100
18) trans-1,2-Dichloroethene	3.37	96	34216	6.422	ug/L 100
19) 1,1-Dichloroethane	3.89	63	64518	6.549	ug/L 100
21) 2-Butanone	4.74	43	122570	68.732	ug/L 100
22) cis-1,2-Dichloroethene	4.69	96	35823	6.310	ug/L 100
23) Bromochloromethane	4.99	128	17185	6.436	ug/L 100
25) Chloroform	5.11	83	63613	6.161	ug/L 100
27) 1,2-Dichloroethane	5.81	62	44994	6.285	ug/L 100
29) 1,1,1-Trichloroethane	5.33	97	56094	6.235	ug/L 100
30) Cyclohexane	5.41	56	56695	6.434	ug/L 100
31) Carbon tetrachloride	5.54	117	48637	5.943	ug/L 100
33) Benzene	5.79	78	139483	6.317	ug/L 100
34) Trichloroethene	6.55	95	35889	6.283	ug/L 100
35) Methylcyclohexane	6.77	83	56072	6.195	ug/L 100
37) 1,2-Dichloropropane	6.80	63	36774	6.260	ug/L 100
38) Bromodichloromethane	7.11	83	46901	6.130	ug/L 100
39) cis-1,3-Dichloropropene	7.61	75	52415	6.478	ug/L 100
40) 4-Methyl-2-pentanone	7.80	43	290365	65.591	ug/L 100

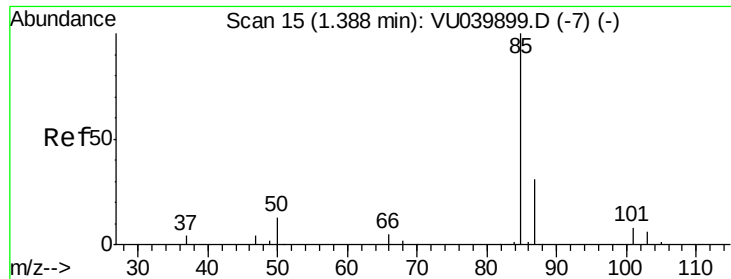
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081920\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.98	91	145596	6.275	ug/L	100
44) trans-1,3-Dichloropropene	8.22	75	46206	6.420	ug/L	100
45) 1,1,2-Trichloroethane	8.41	97	28234	6.432	ug/L	100
47) Tetrachloroethene	8.56	164	26583	5.729	ug/L	100
48) 2-Hexanone	8.69	43	210096	65.856	ug/L	100
49) Dibromochloromethane	8.82	129	33305	6.204	ug/L	100
50) 1,2-Dibromoethane	8.93	107	26763	6.258	ug/L	100
51) Chlorobenzene	9.45	112	93834	6.089	ug/L	100
52) Ethylbenzene	9.57	91	157132	6.116	ug/L	100
53) m,p-Xylene	9.69	106	61709	6.304	ug/L	100
54) o-Xylene	10.10	106	58951	6.187	ug/L	100
55) Styrene	10.11	104	102697	6.339	ug/L	100
56) Isopropylbenzene	10.48	105	156370	6.130	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.78	83	35998	6.017	ug/L	100
59) 1,2,3-Trichloropropane	10.82	75	25894	6.172	ug/L	100
61) Bromoform	10.29	173	18916	6.297	ug/L	100
62) 1,3-Dichlorobenzene	11.74	146	79640	6.167	ug/L	100
63) 1,4-Dichlorobenzene	11.83	146	81092	6.007	ug/L	100
65) 1,2-Dichlorobenzene	12.20	146	75280	5.962	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.99	75	6359	6.511	ug/L	100
67) 1,3,5-Trichlorobenzene	13.21	180	56503	5.829	ug/L	100
68) 1,2,4-trichlorobenzene	13.83	180	49343	6.066	ug/L	100
69) Naphthalene	14.08	128	92063	6.267	ug/L	100
70) 1,2,3-Trichlorobenzene	14.32	180	46054	6.320	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 6.211 ug/L

RT: 1.39 min Scan# 15

Delta R.T. 0.00 min

Lab File: VU039899.D

Acq: 19 Aug 2020 10:19

Instrument :

MSVOA_U

ClientSampleId :

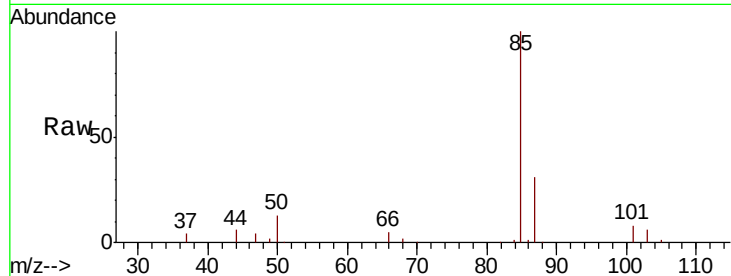
VSTD00504

Tot Ion: 85 Resp: 39594

Ion Ratio Lower Upper

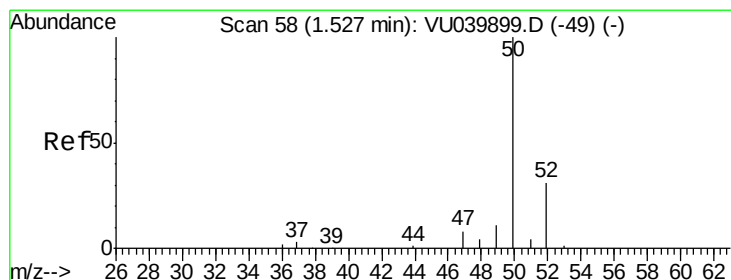
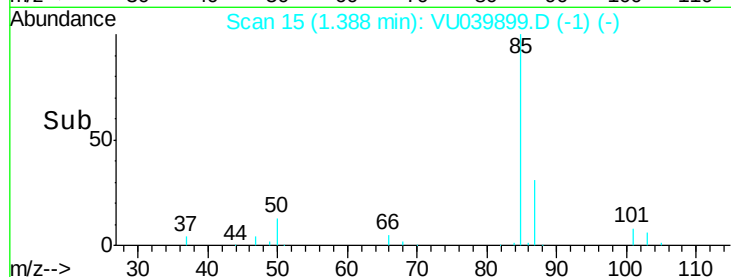
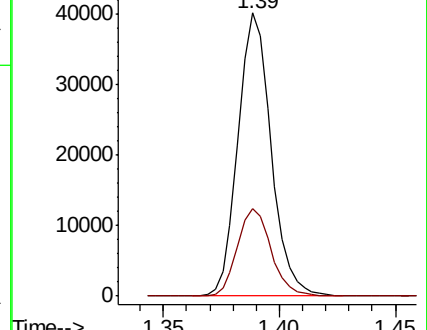
85 100

87 31.5 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VU039899.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VU039899.D (-7) (-)



#3

Chloromethane

Concen: 6.313 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU039899.D

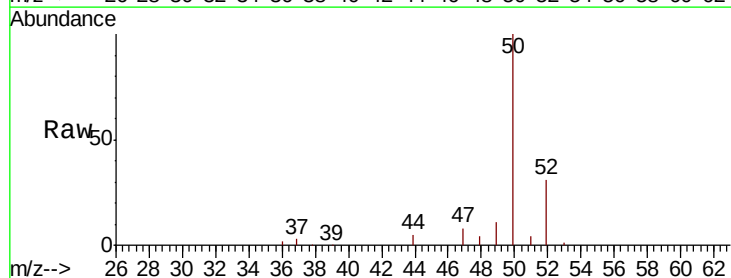
Acq: 19 Aug 2020 10:19

Tgt Ion: 50 Resp: 42547

Ion Ratio Lower Upper

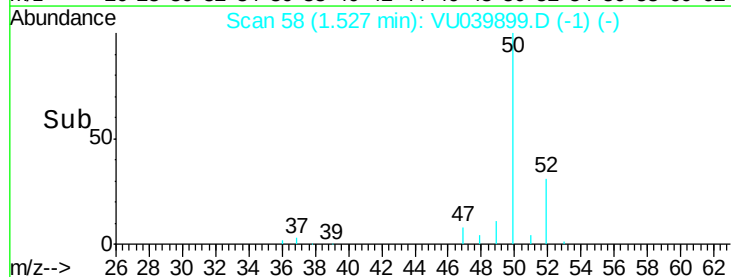
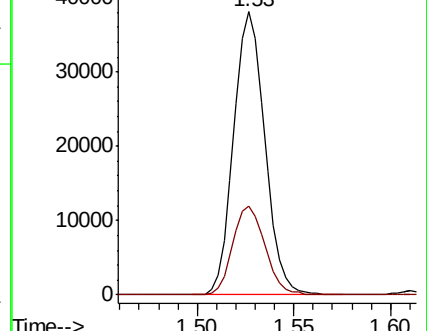
50 100

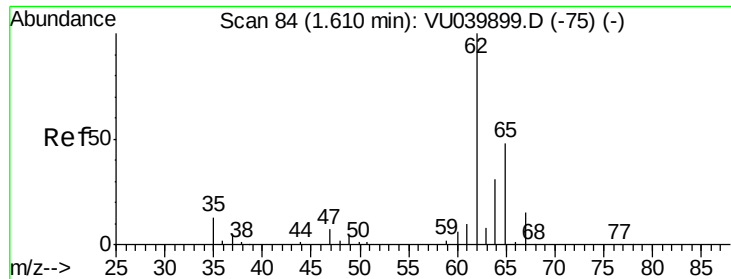
52 31.3 21.9 40.7



Abundance Ion 50.05 (49.75 to 50.75): VU039899.D (-49) (-)

Ion 52.05 (51.75 to 52.75): VU039899.D (-49) (-)





#5

Vinyl chloride

Concen: 6.563 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU039899.D

Acq: 19 Aug 2020 10:19

Instrument :

MSVOA_U

ClientSampleId :

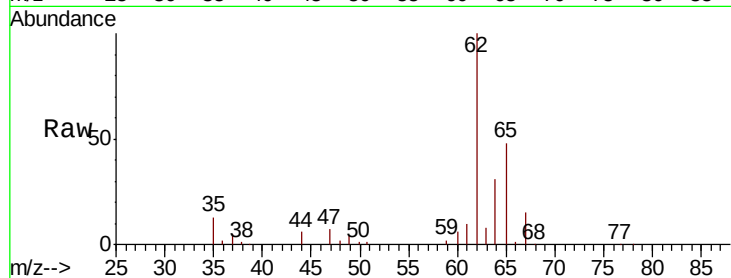
VSTD00504

Tot Ion: 62 Resp: 43024

Ion Ratio Lower Upper

62 100

64 30.9 21.6 40.2



Abundance Ion 62.00 (61.70 to 62.70): VU039899.D (-75) (-)

Ion 64.10 (63.80 to 64.80): VU039899.D (-75) (-)

1.61

40000

30000

20000

10000

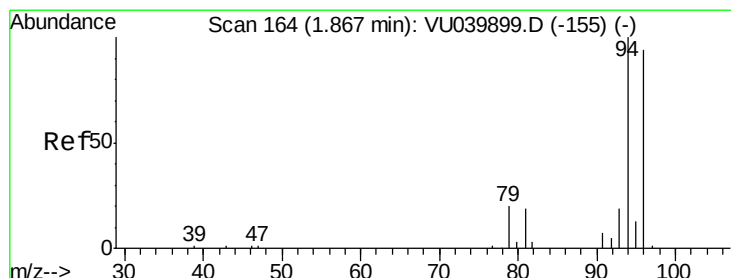
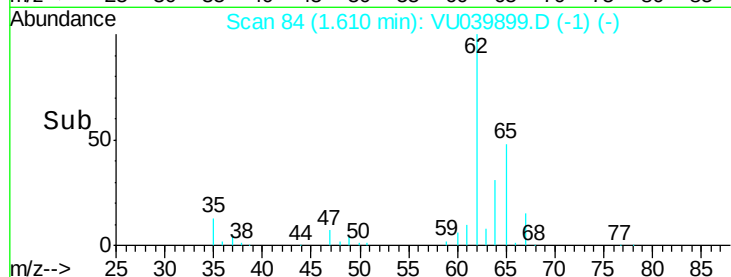
0

Time-->

1.55

1.60

1.65



#6

Bromomethane

Concen: 5.858 ug/L

RT: 1.87 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU039899.D

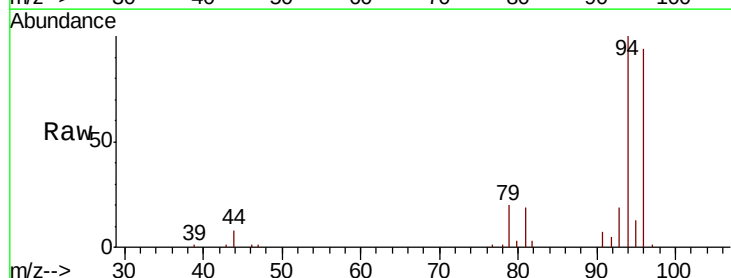
Acq: 19 Aug 2020 10:19

Tgt Ion: 94 Resp: 23243

Ion Ratio Lower Upper

94 100

96 93.6 65.5 121.7



Abundance Ion 94.00 (93.70 to 94.70): VU039899.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU039899.D (-155) (-)

1.87

20000

15000

10000

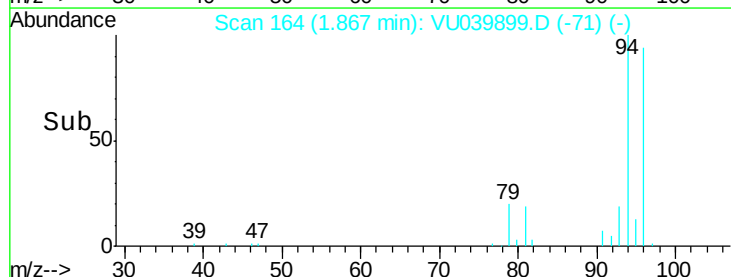
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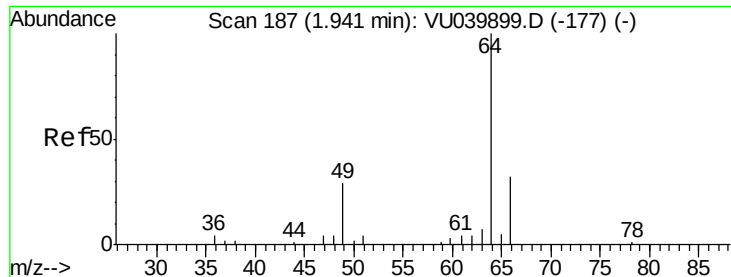
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Time-->

1.85

1.90

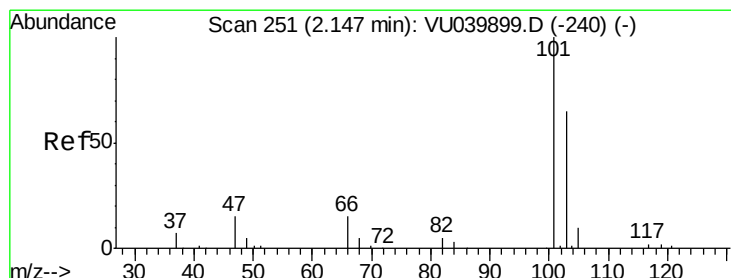
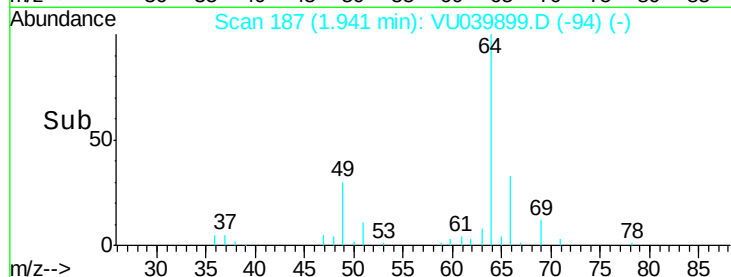
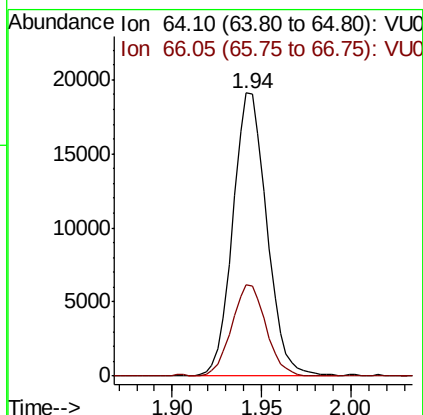
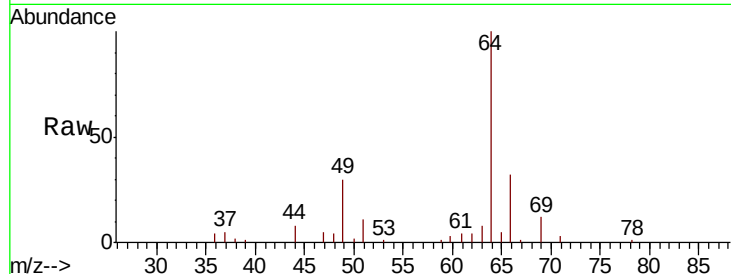




#8
Chloroethane
Concen: 5.541 ug/L
RT: 1.94 min Scan# 187
Delta R.T. 0.00 min
Lab File: VU039899.D
Acq: 19 Aug 2020 10:19

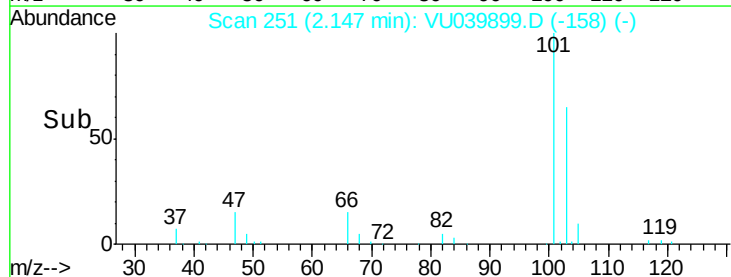
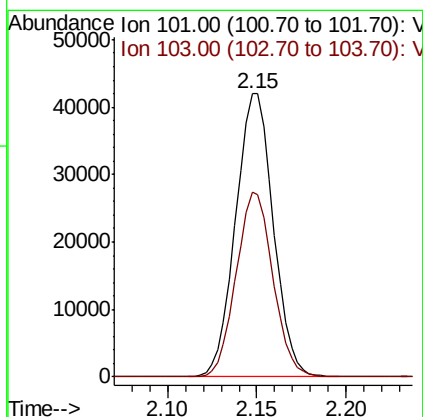
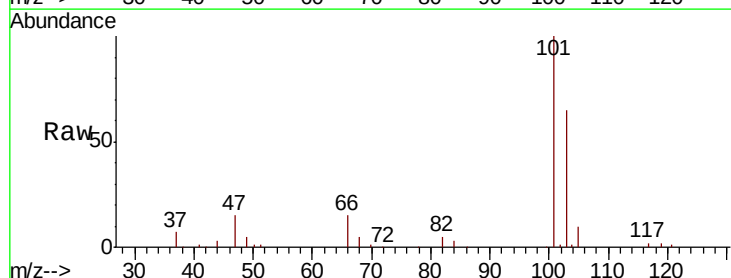
Instrument :
MSVOA_U
ClientSampleId :
VSTD00504

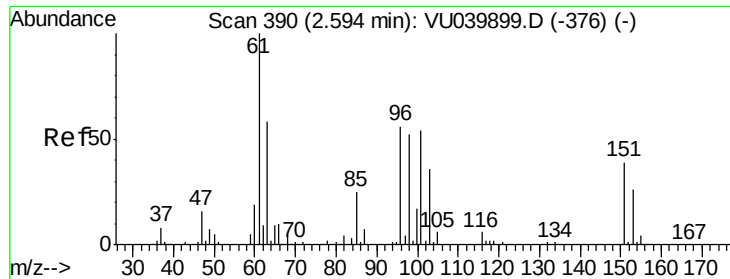
Tot Ion: 64 Resp: 25267
Ion Ratio Lower Upper
64 100
66 32.3 22.6 42.0



#9
Trichlorofluoromethane
Concen: 6.251 ug/L
RT: 2.15 min Scan# 251
Delta R.T. 0.00 min
Lab File: VU039899.D
Acq: 19 Aug 2020 10:19

Tgt Ion:101 Resp: 62031
Ion Ratio Lower Upper
101 100
103 63.7 51.0 76.4





#10

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

Concen: 6.533 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU039899.D

Acq: 19 Aug 2020 10:19

Instrument :

MSVOA_U

ClientSampleId :

VSTD00504

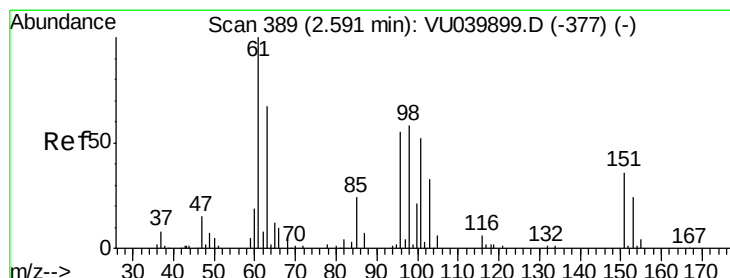
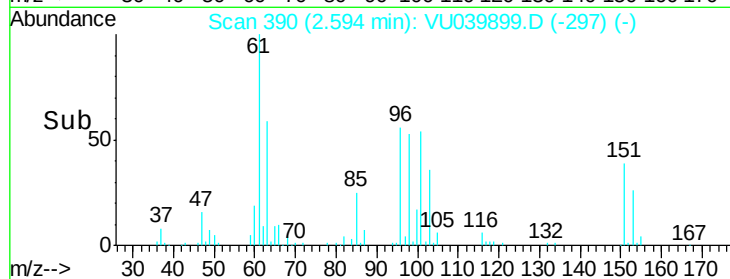
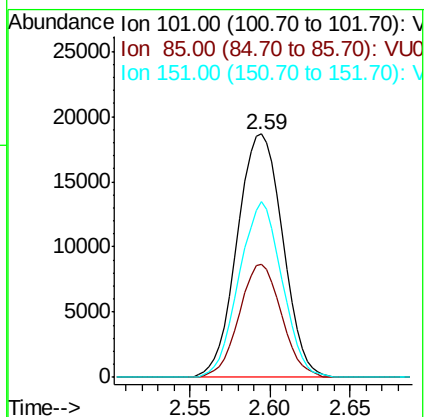
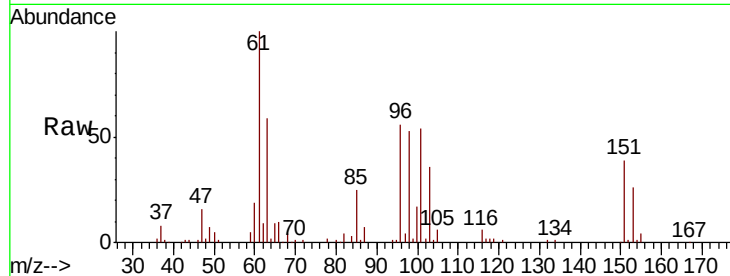
Tot Ion:101 Resp: 36366

Ion Ratio Lower Upper

101 100

85 43.1 34.5 51.7

151 68.0 54.4 81.6



#12

1,1-Dichloroethene

Concen: 6.788 ug/L

RT: 2.59 min Scan# 389

Delta R.T. 0.00 min

Lab File: VU039899.D

Acq: 19 Aug 2020 10:19

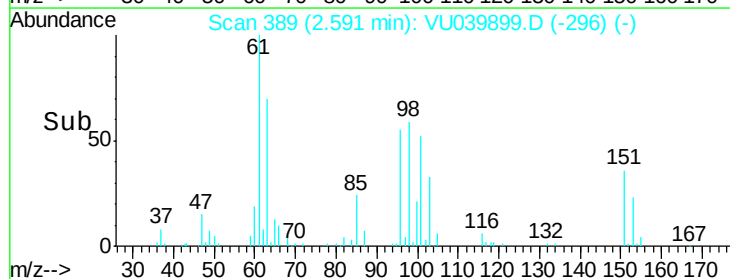
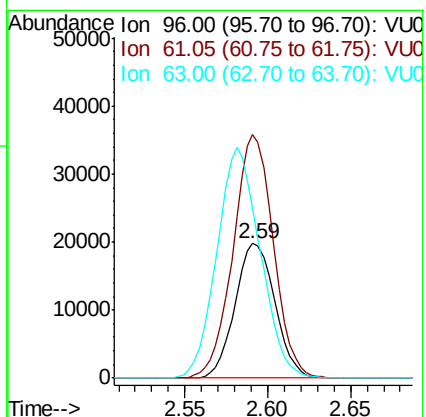
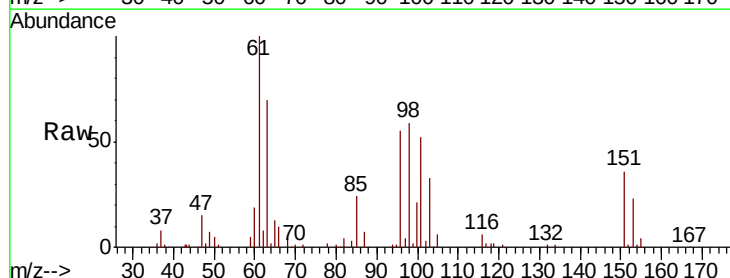
Tgt Ion: 96 Resp: 33052

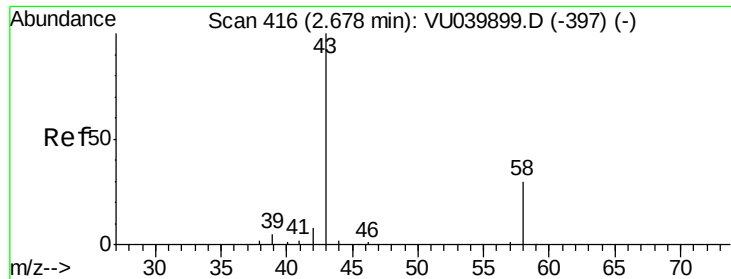
Ion Ratio Lower Upper

96 100

61 181.1 126.8 235.4

63 126.6 88.6 164.6





#13

Acetone

Concen: 62.065 ug/L

RT: 2.68 min Scan# 416

Delta R.T. 0.00 min

Lab File: VU039899.D

Acq: 19 Aug 2020 10:19

Instrument :

MSVOA_U

ClientSampleId :

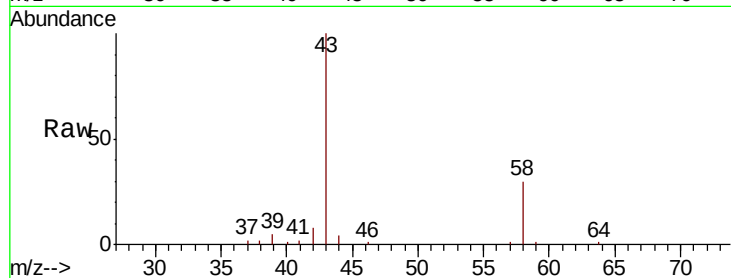
VSTD00504

Tot Ion: 43 Resp: 69412

Ion Ratio Lower Upper

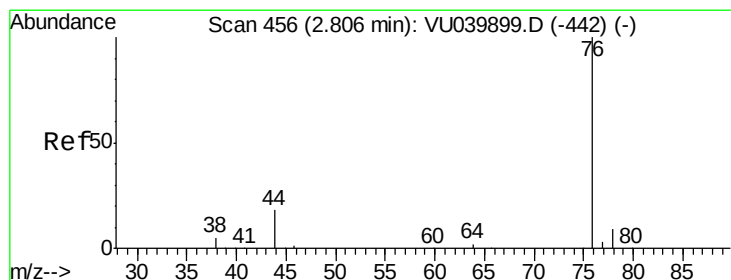
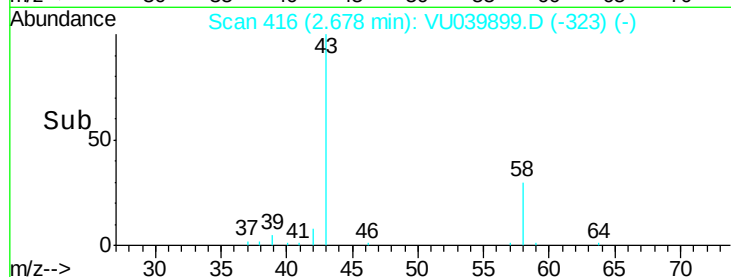
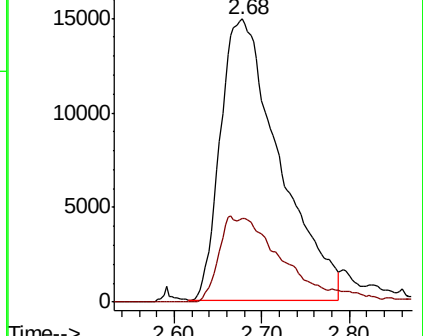
43 100

58 9.5 0.0 19.0



Abundance Ion 43.05 (42.75 to 43.75): VU039899.D (-397) (-)

Ion 58.05 (57.75 to 58.75): VU039899.D (-397) (-)



#14

Carbon disulfide

Concen: 6.917 ug/L

RT: 2.81 min Scan# 456

Delta R.T. 0.00 min

Lab File: VU039899.D

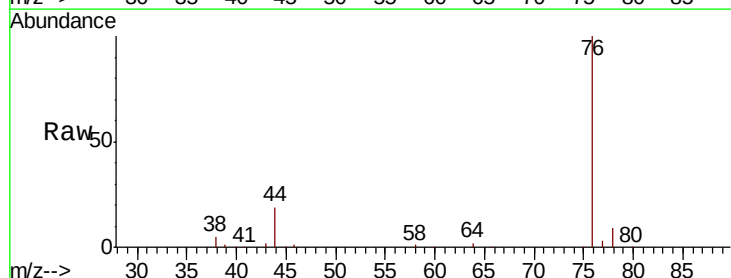
Acq: 19 Aug 2020 10:19

Tgt Ion: 76 Resp: 106430

Ion Ratio Lower Upper

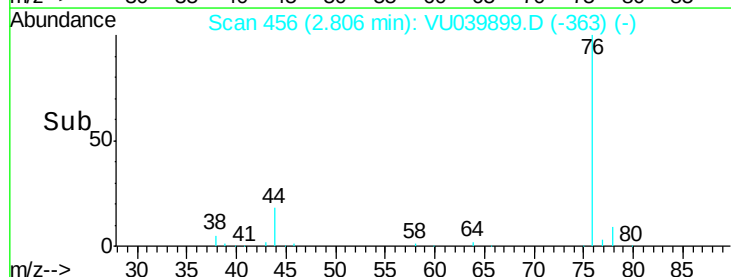
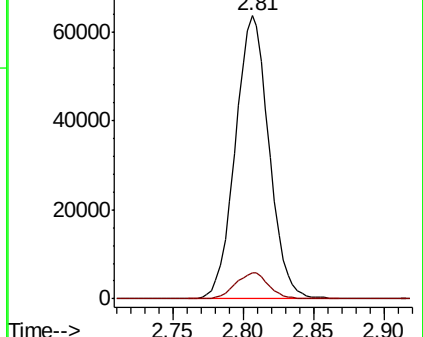
76 100

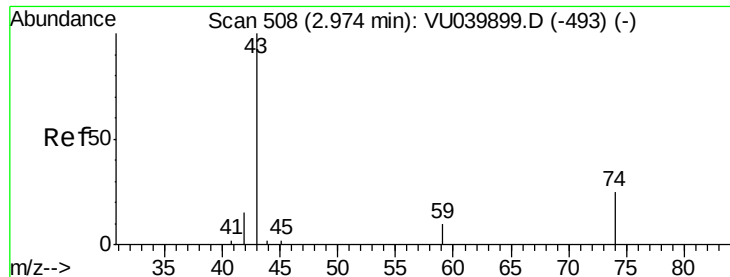
78 9.2 7.4 11.0



Abundance Ion 76.05 (75.75 to 76.75): VU039899.D (-442) (-)

Ion 78.00 (77.70 to 78.70): VU039899.D (-442) (-)

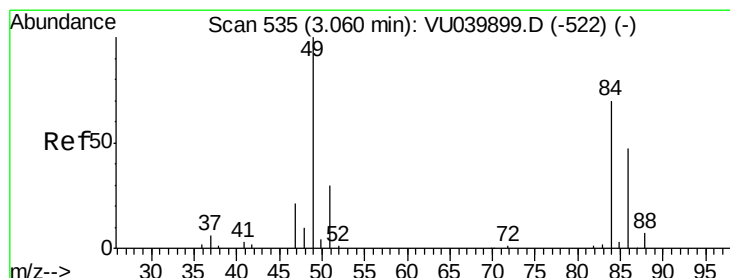
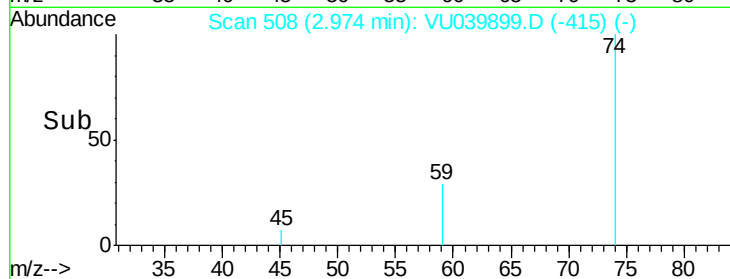
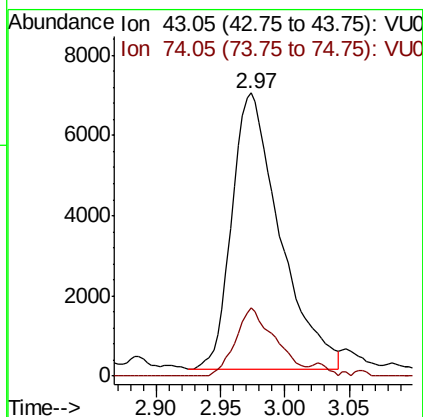
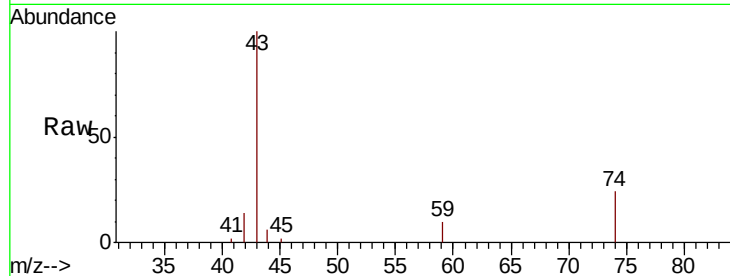




#15
Methvl Acetate
Concen: 6.473 ug/L
RT: 2.97 min Scan# 508
Delta R.T. 0.00 min
Lab File: VU039899.D
Acq: 19 Aug 2020 10:19

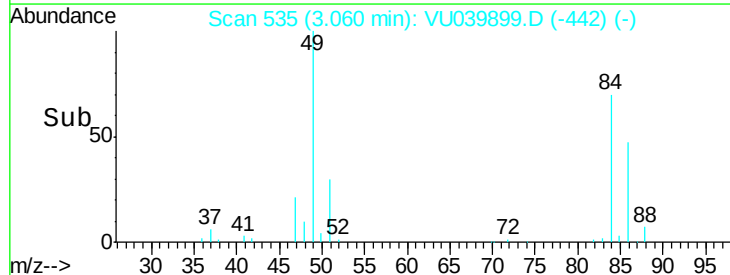
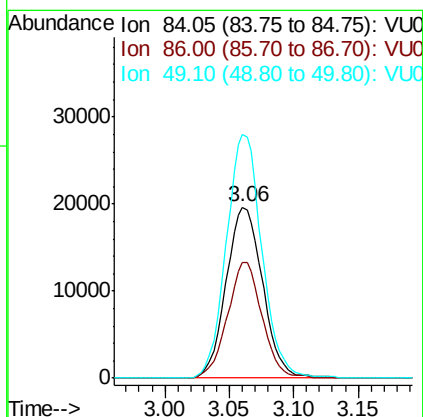
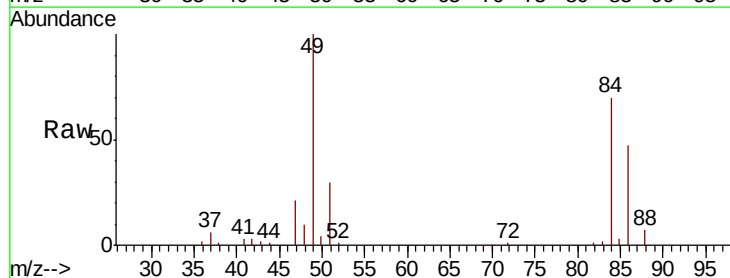
Instrument :
MSVOA_U
ClientSampleId :
VSTD00504

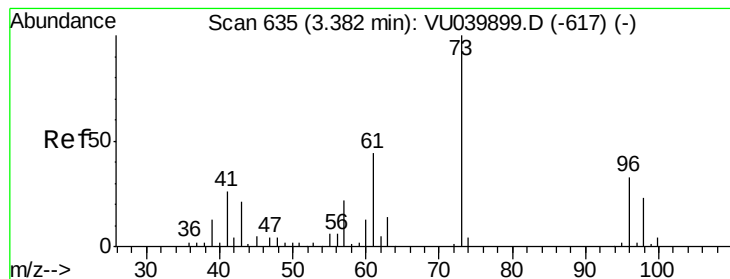
Tot Ion: 43 Resp: 17894
Ion Ratio Lower Upper
43 100
74 20.4 16.3 24.5



#16
Methylene chloride
Concen: 5.134 ug/L
RT: 3.06 min Scan# 535
Delta R.T. 0.00 min
Lab File: VU039899.D
Acq: 19 Aug 2020 10:19

Tgt Ion: 84 Resp: 38612
Ion Ratio Lower Upper
84 100
86 67.4 47.2 87.6
49 142.6 99.8 185.4



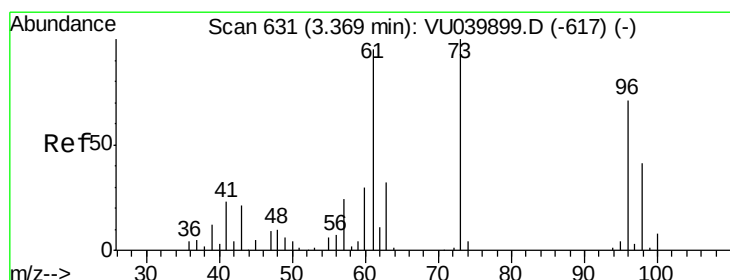
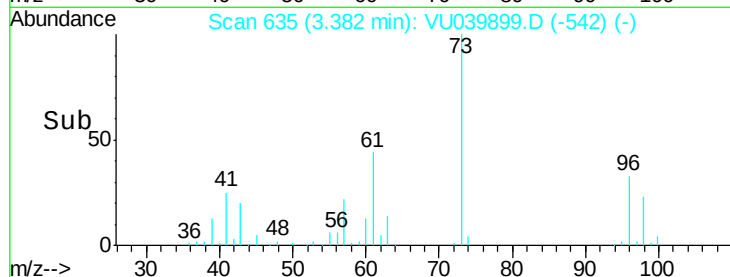
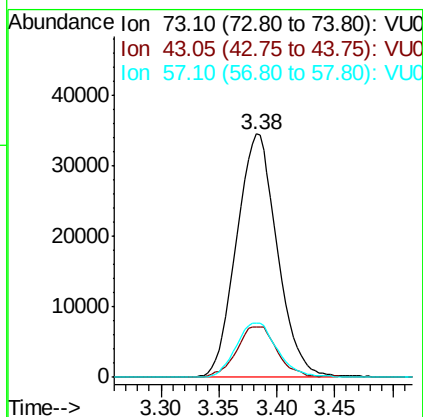
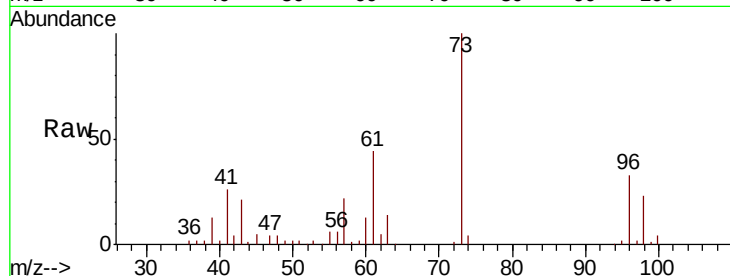


#17

Methyl tert-butyl Ether
 Concen: 6.634 ug/L
 RT: 3.38 min Scan# 635
 Delta R.T. 0.00 min
 Lab File: VU039899.D
 Acq: 19 Aug 2020 10:19

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00504

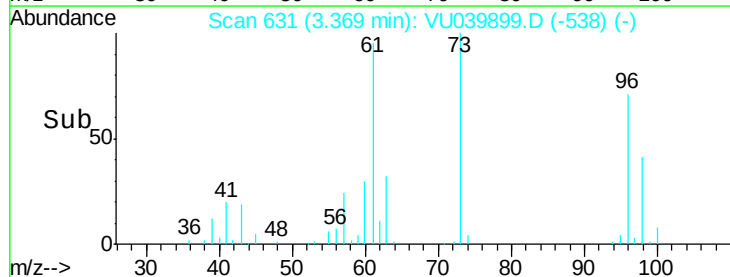
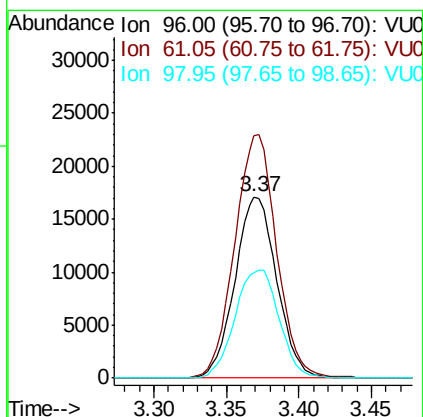
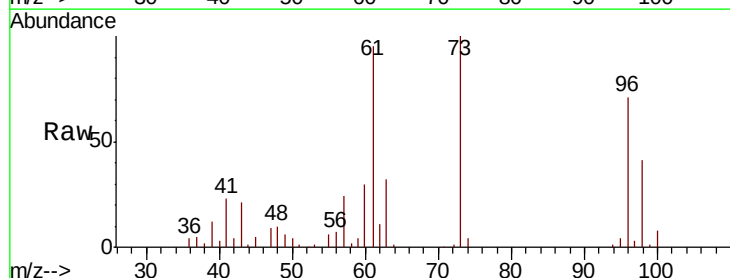
Tot Ion: 73 Resp: 84372
 Ion Ratio Lower Upper
 73 100
 43 20.7 16.6 24.8
 57 22.8 18.2 27.4

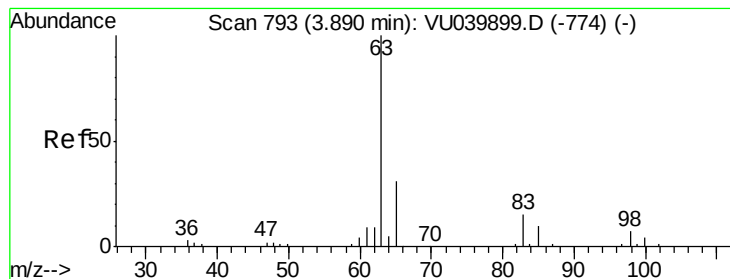


#18

trans-1,2-Dichloroethene
 Concen: 6.422 ug/L
 RT: 3.37 min Scan# 631
 Delta R.T. 0.00 min
 Lab File: VU039899.D
 Acq: 19 Aug 2020 10:19

Tgt Ion: 96 Resp: 34216
 Ion Ratio Lower Upper
 96 100
 61 133.8 93.7 173.9
 98 58.1 40.7 75.5





#19

1,1-Dichloroethane

Concen: 6.549 ug/L

RT: 3.89 min Scan# 793

Delta R.T. 0.00 min

Lab File: VU039899.D

Acq: 19 Aug 2020 10:19

Instrument :

MSVOA_U

ClientSampleId :

VSTD00504

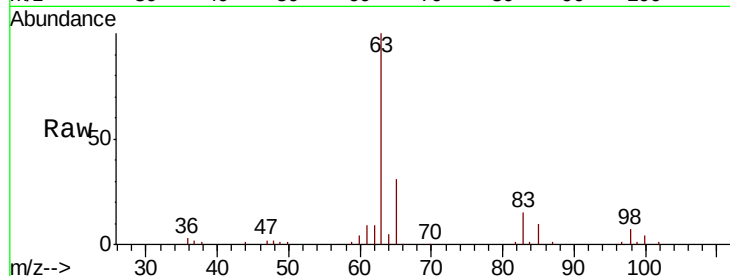
Tot Ion: 63 Resp: 64518

Ion Ratio Lower Upper

63 100

65 30.8 21.6 40.0

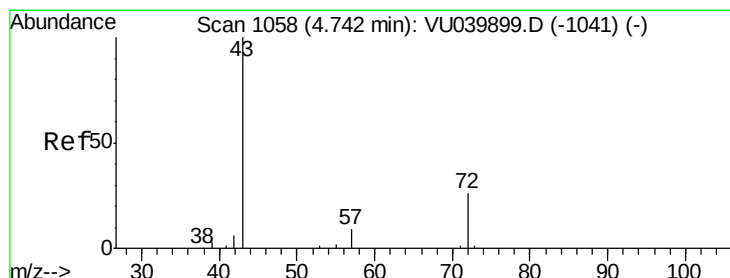
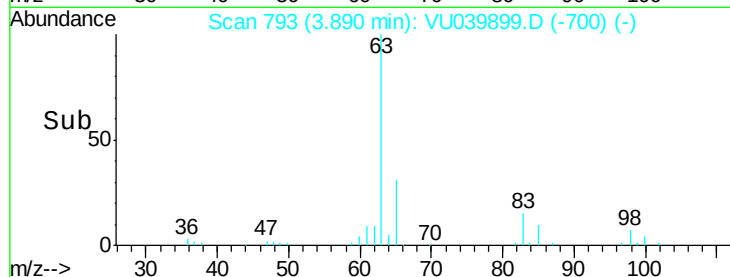
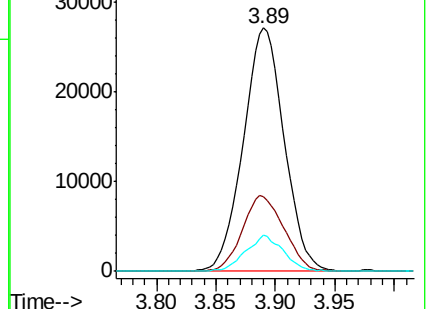
83 14.7 10.3 19.1



Abundance Ion 63.10 (62.80 to 63.80): VU039899.D (-774) (-)

Ion 65.10 (64.80 to 65.80): VU039899.D (-774) (-)

Ion 83.05 (82.75 to 83.75): VU039899.D (-774) (-)



#21

2-Butanone

Concen: 68.732 ug/L

RT: 4.74 min Scan# 1058

Delta R.T. 0.00 min

Lab File: VU039899.D

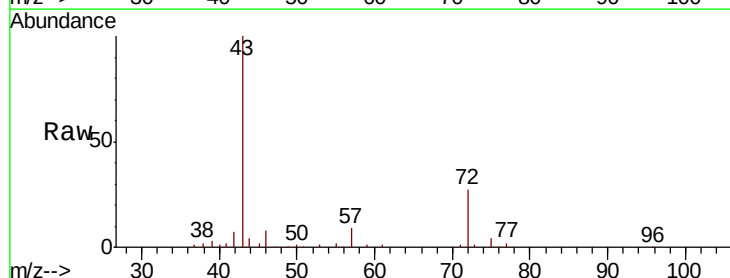
Acq: 19 Aug 2020 10:19

Tgt Ion: 43 Resp: 122570

Ion Ratio Lower Upper

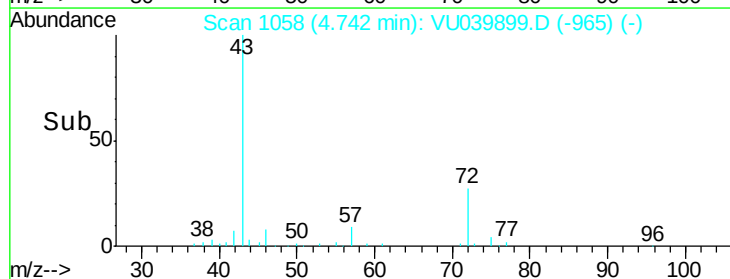
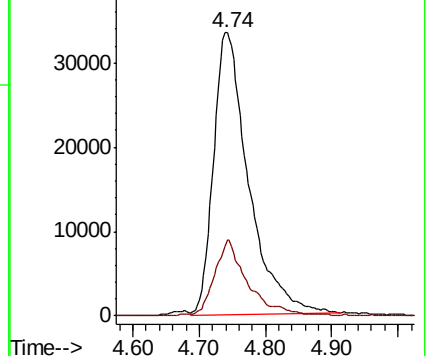
43 100

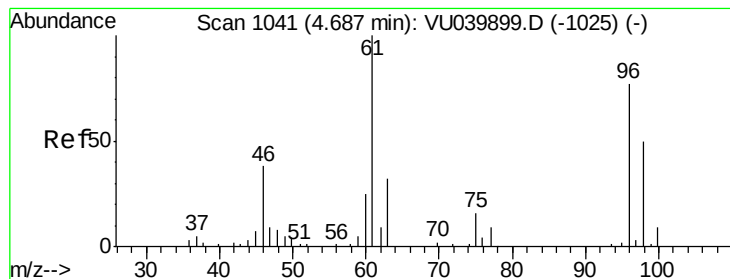
72 25.3 12.7 38.0



Abundance Ion 43.05 (42.75 to 43.75): VU039899.D (-1041) (-)

Ion 72.10 (71.80 to 72.80): VU039899.D (-1041) (-)





#22

cis-1,2-Dichloroethene

Concen: 6.310 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VU039899.D

Acq: 19 Aug 2020 10:19

Instrument :

MSVOA_U

ClientSampled :

VSTD00504

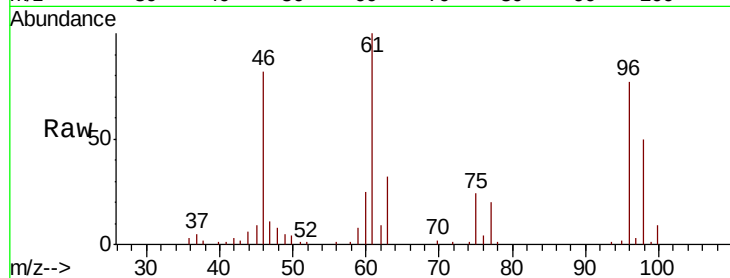
Tot Ion: 96 Resp: 35823

Ion Ratio Lower Upper

96 100

61 129.9 90.9 168.9

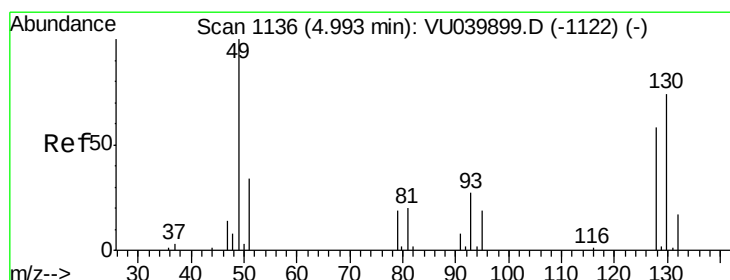
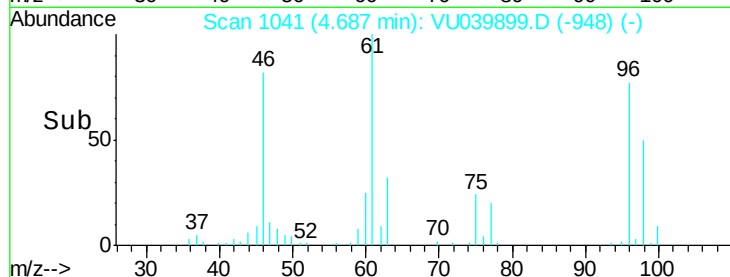
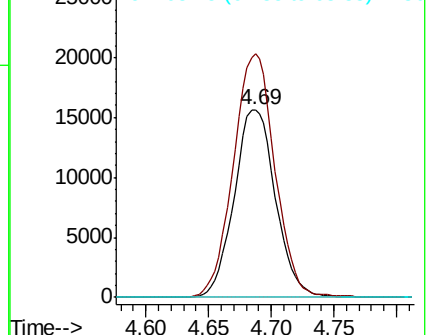
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU039899.D (-1025) (-)

Ion 61.05 (60.75 to 61.75): VU039899.D (-1025) (-)

Ion 68.15 (67.85 to 68.85): VU039899.D (-1025) (-)



#23

Bromochloromethane

Concen: 6.436 ug/L

RT: 4.99 min Scan# 1136

Delta R.T. 0.00 min

Lab File: VU039899.D

Acq: 19 Aug 2020 10:19

Tgt Ion: 128 Resp: 17185

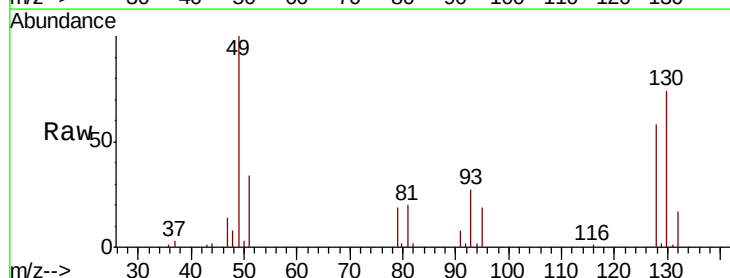
Ion Ratio Lower Upper

128 100

49 173.2 121.2 225.2

130 128.9 90.2 167.6

51 59.0 47.2 70.8

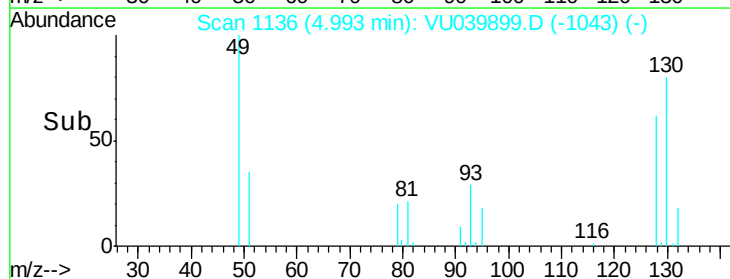
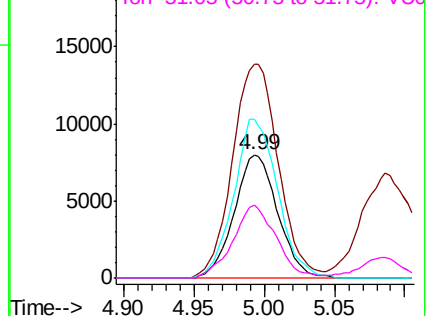


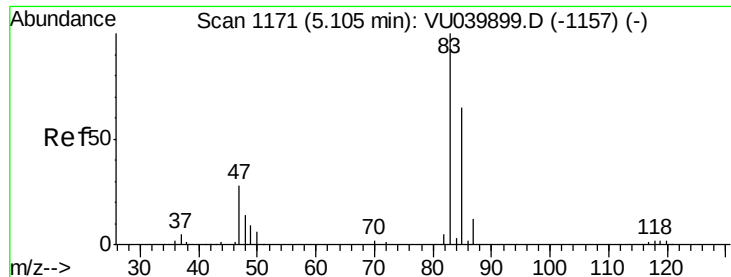
Abundance Ion 127.90 (127.60 to 128.60): VU039899.D (-1122) (-)

Ion 49.10 (48.80 to 49.80): VU039899.D (-1122) (-)

Ion 129.95 (129.65 to 130.65): VU039899.D (-1122) (-)

Ion 51.05 (50.75 to 51.75): VU039899.D (-1122) (-)

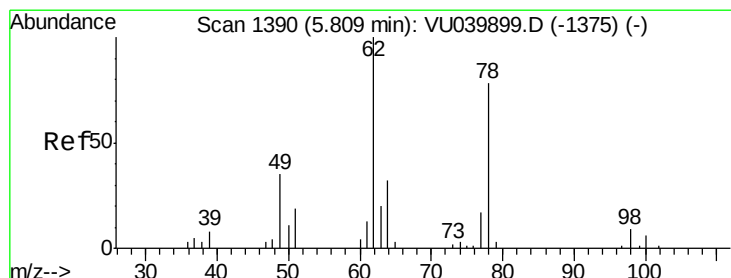
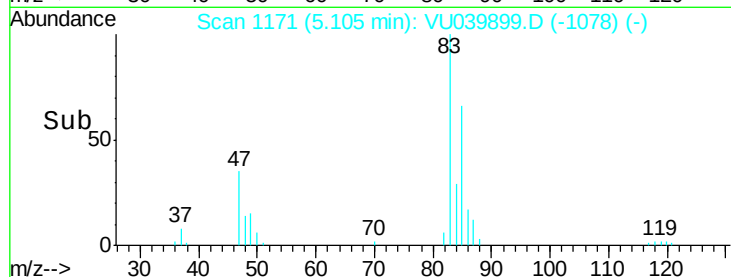
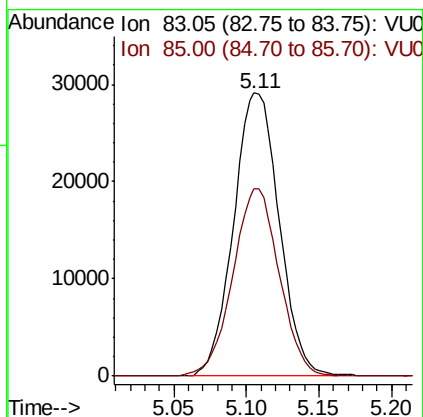
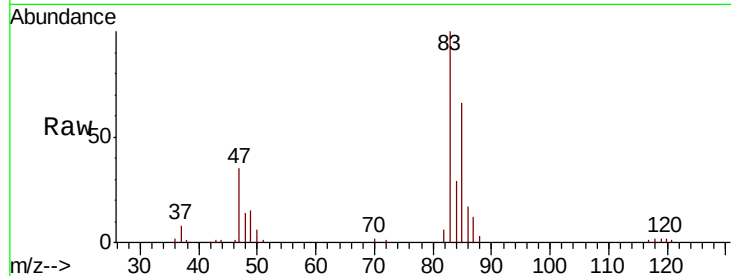




#25
Chloroform
Concen: 6.161 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. 0.00 min
Lab File: VU039899.D
Acq: 19 Aug 2020 10:19

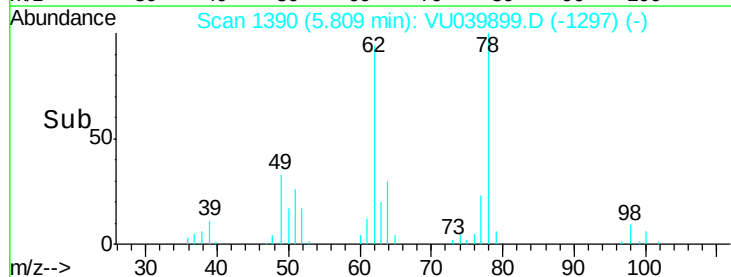
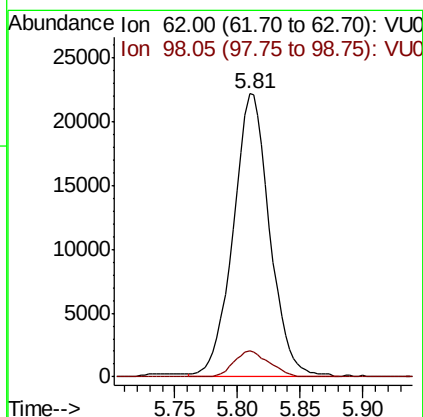
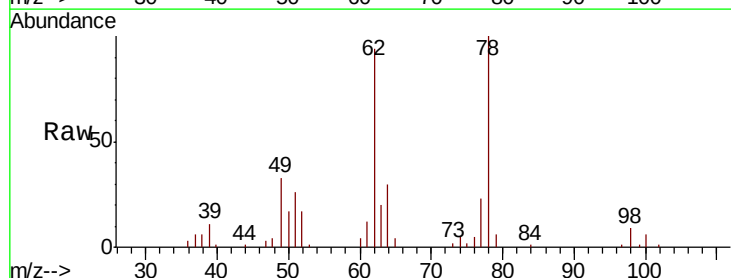
Instrument :
MSVOA_U
ClientSampleId :
VSTD00504

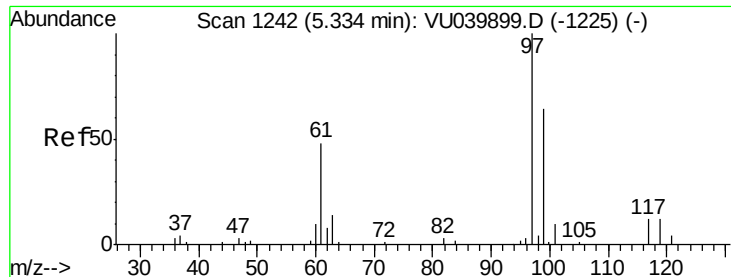
Tot Ion: 83 Resp: 63613
Ion Ratio Lower Upper
83 100
85 66.3 46.4 86.2



#27
1,2-Dichloroethane
Concen: 6.285 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. 0.00 min
Lab File: VU039899.D
Acq: 19 Aug 2020 10:19

Tgt Ion: 62 Resp: 44994
Ion Ratio Lower Upper
62 100
98 9.3 7.4 11.2

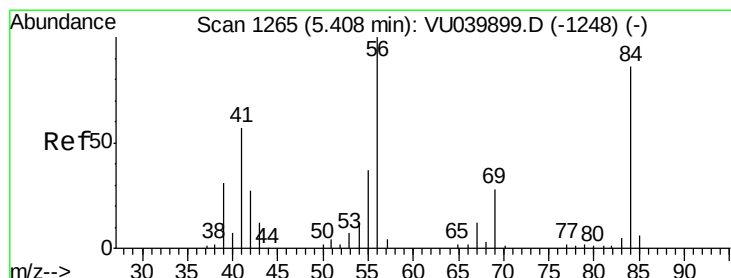
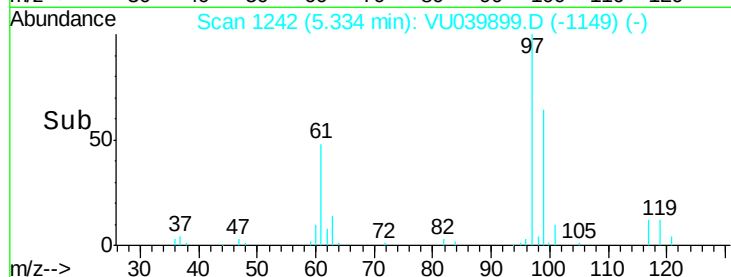
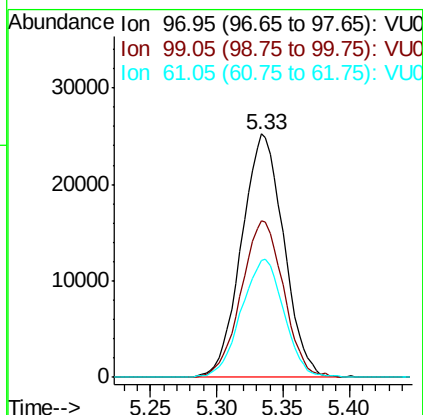
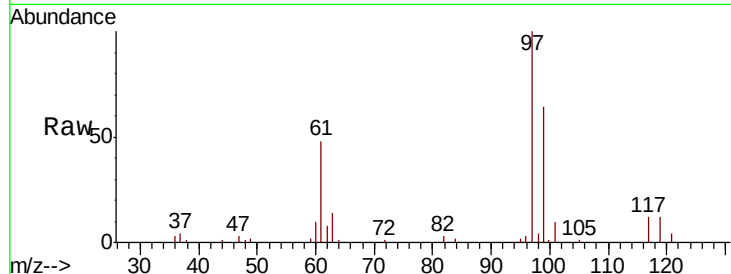




#29
 1,1,1-Trichloroethane
 Concen: 6.235 ug/L
 RT: 5.33 min Scan# 1242
 Delta R.T. 0.00 min
 Lab File: VU039899.D
 Acq: 19 Aug 2020 10:19

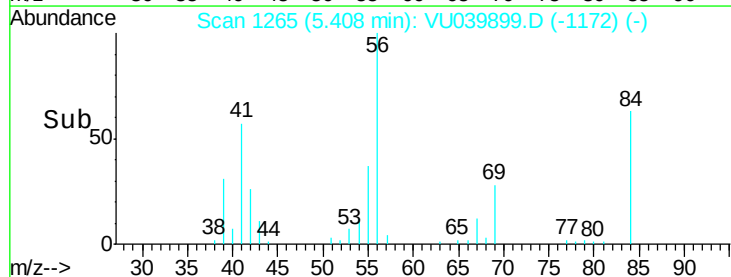
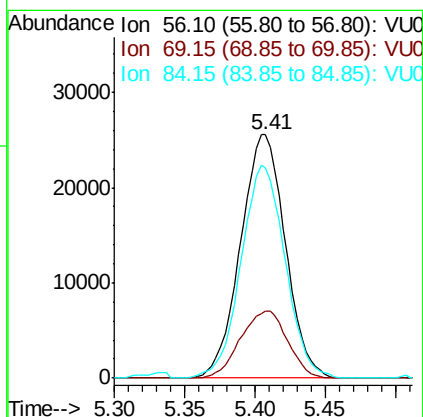
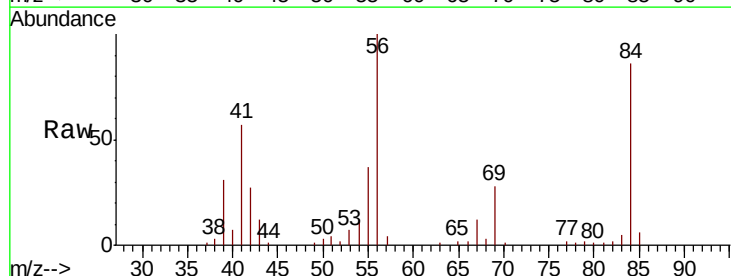
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00504

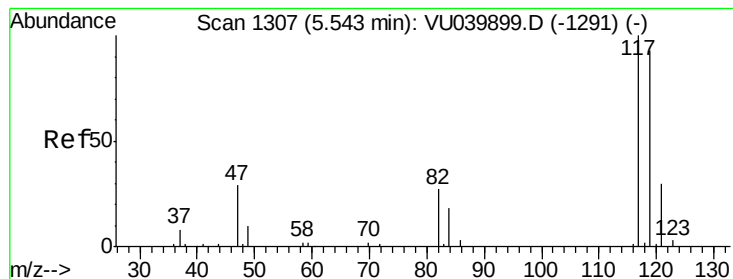
Tot Ion: 97 Resp: 56094
 Ion Ratio Lower Upper
 97 100
 99 64.3 51.4 77.2
 61 48.9 39.1 58.7



#30
 Cyclohexane
 Concen: 6.434 ug/L
 RT: 5.41 min Scan# 1265
 Delta R.T. 0.00 min
 Lab File: VU039899.D
 Acq: 19 Aug 2020 10:19

Tgt Ion: 56 Resp: 56695
 Ion Ratio Lower Upper
 56 100
 69 28.9 23.1 34.7
 84 86.3 69.0 103.6





#31

Carbon tetrachloride

Concen: 5.943 ug/L

RT: 5.54 min Scan# 1307

Delta R.T. 0.00 min

Lab File: VU039899.D

Acq: 19 Aug 2020 10:19

Instrument :

MSVOA_U

ClientSampleId :

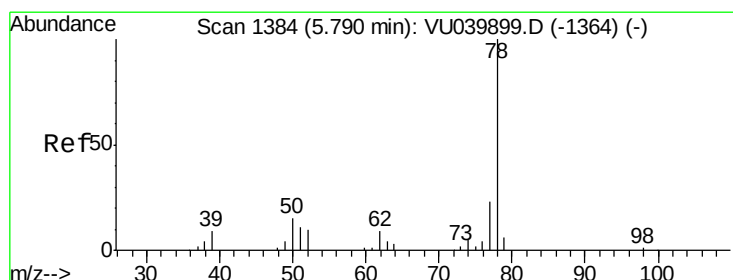
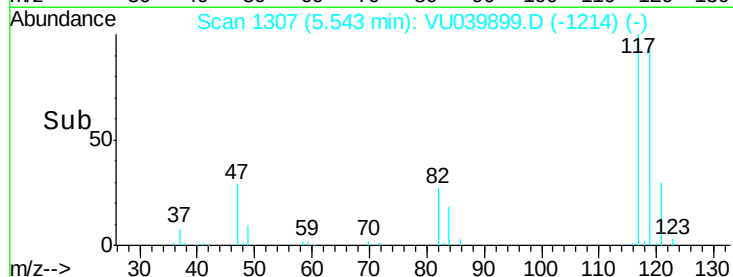
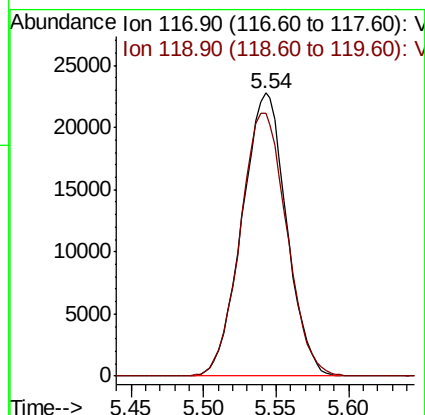
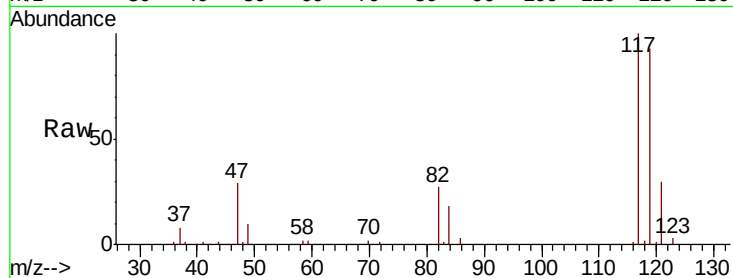
VSTD00504

Tot Ion:117 Resp: 48637

Ion Ratio Lower Upper

117 100

119 97.0 77.6 116.4



#33

Benzene

Concen: 6.317 ug/L

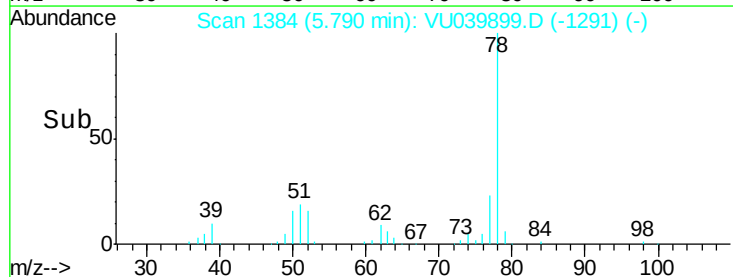
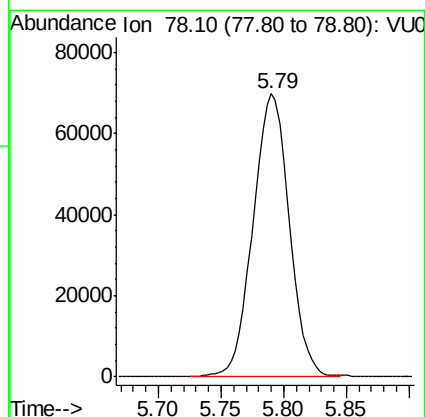
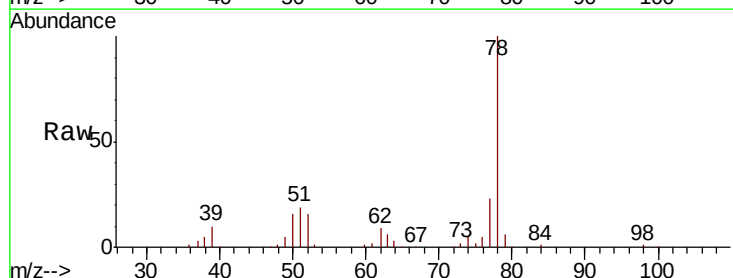
RT: 5.79 min Scan# 1384

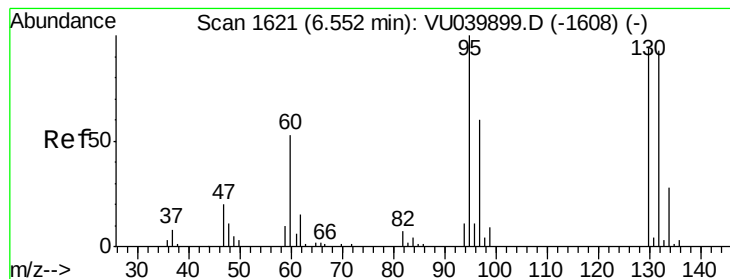
Delta R.T. 0.00 min

Lab File: VU039899.D

Acq: 19 Aug 2020 10:19

Tgt Ion: 78 Resp: 139483





#34

Trichloroethene

Concen: 6.283 ug/L

RT: 6.55 min Scan# 1621

Delta R.T. 0.00 min

Lab File: VU039899.D

Acq: 19 Aug 2020 10:19

Instrument :

MSVOA_U

ClientSampleId :

VSTD00504

Tot Ion: 95 Resp: 35889

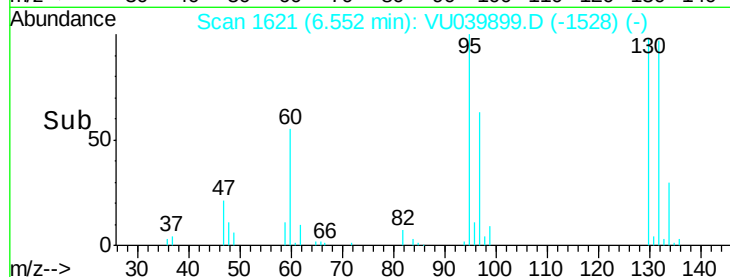
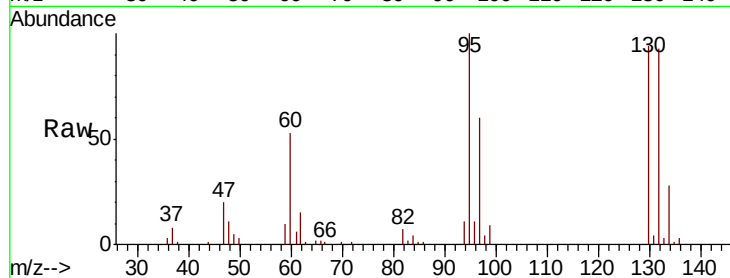
Ion Ratio Lower Upper

95 100

97 60.0 42.0 78.0

132 92.9 65.0 120.8

130 93.6 65.5 121.7



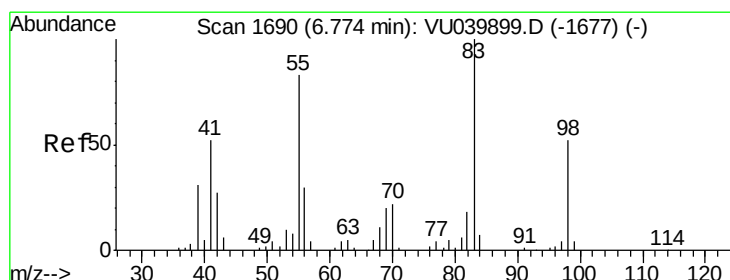
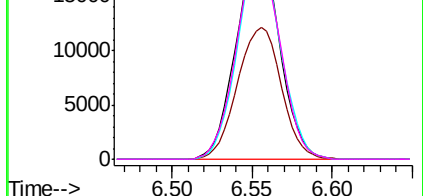
Abundance Ion 95.00 (94.70 to 95.70): VU039899.D (-1528) (-)

Ion 96.95 (96.65 to 97.65): VU039899.D (-1528) (-)

Ion 131.95 (131.65 to 132.65): VU039899.D (-1528) (-)

Ion 129.95 (129.65 to 130.65): VU039899.D (-1528) (-)

Time-->



#35

Methylcyclohexane

Concen: 6.195 ug/L

RT: 6.77 min Scan# 1690

Delta R.T. 0.00 min

Lab File: VU039899.D

Acq: 19 Aug 2020 10:19

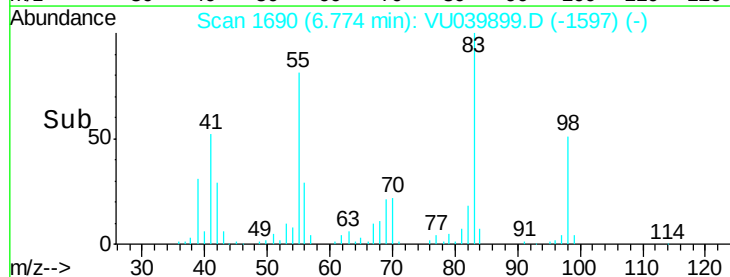
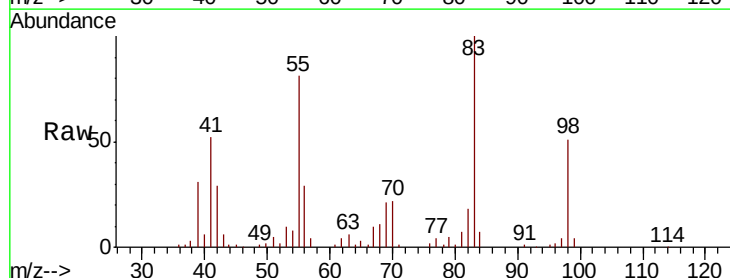
Tgt Ion: 83 Resp: 56072

Ion Ratio Lower Upper

83 100

55 80.1 64.1 96.1

98 49.2 39.4 59.0

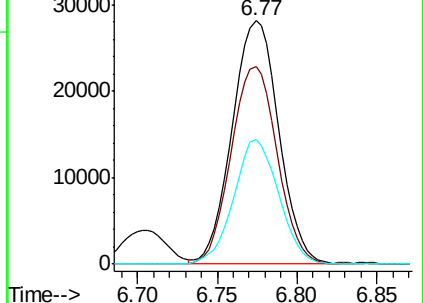


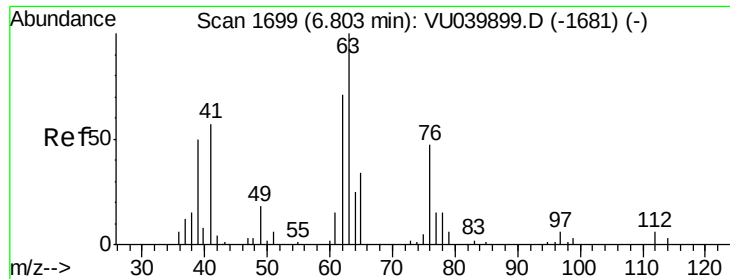
Abundance Ion 83.15 (82.85 to 83.85): VU039899.D (-1597) (-)

Ion 55.10 (54.80 to 55.80): VU039899.D (-1597) (-)

Ion 98.15 (97.85 to 98.85): VU039899.D (-1597) (-)

Time-->

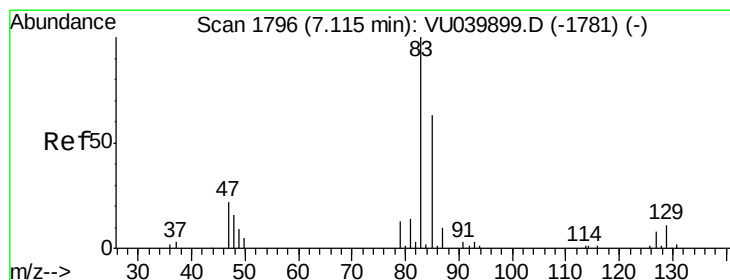
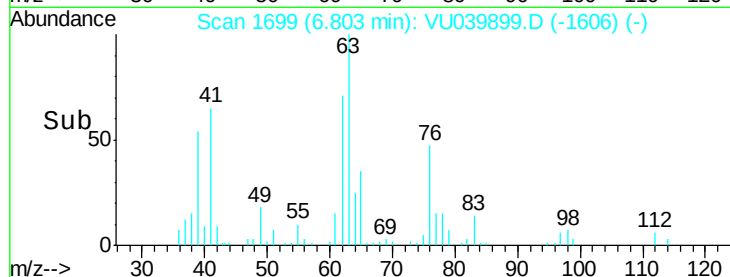
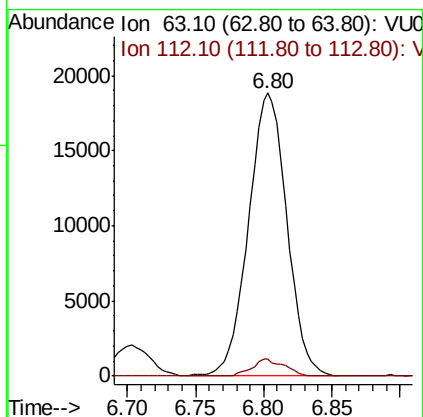
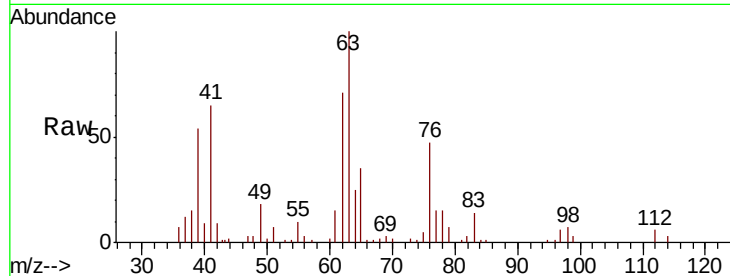




#37
 1,2-Dichloropropane
 Concen: 6.260 ug/L
 RT: 6.80 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VU039899.D
 Acq: 19 Aug 2020 10:19

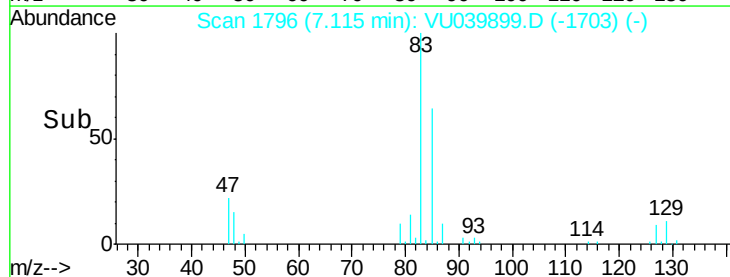
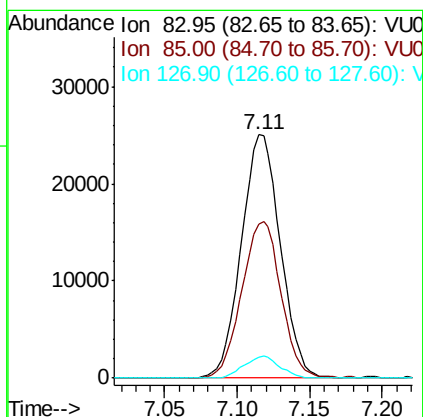
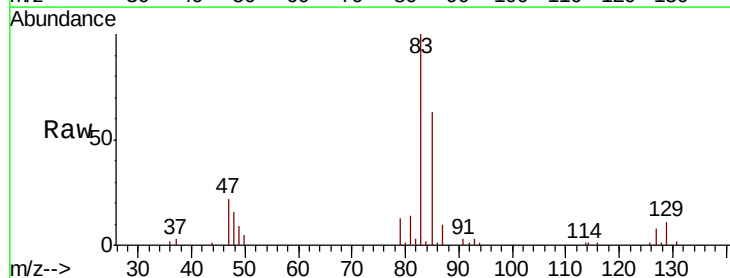
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00504

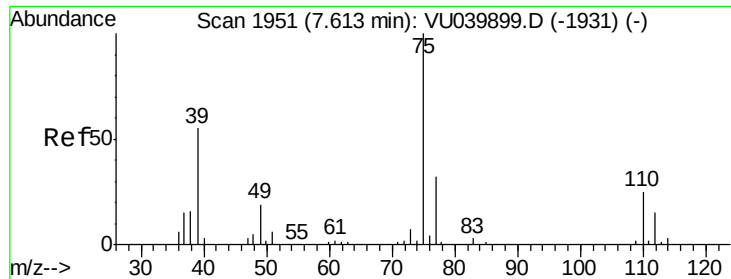
Tot Ion: 63 Resp: 36774
 Ion Ratio Lower Upper
 63 100
 112 5.1 4.1 6.1



#38
 Bromodichloromethane
 Concen: 6.130 ug/L
 RT: 7.11 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VU039899.D
 Acq: 19 Aug 2020 10:19

Tgt Ion: 83 Resp: 46901
 Ion Ratio Lower Upper
 83 100
 85 63.3 44.3 82.3
 127 8.4 6.7 10.1

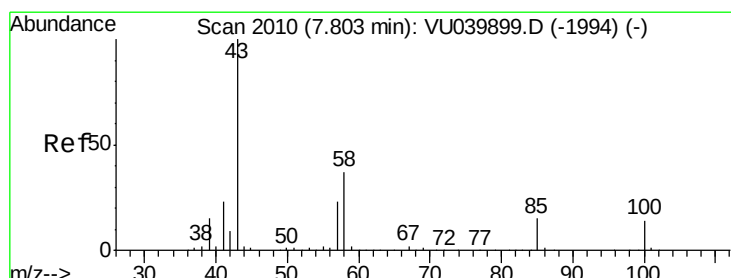
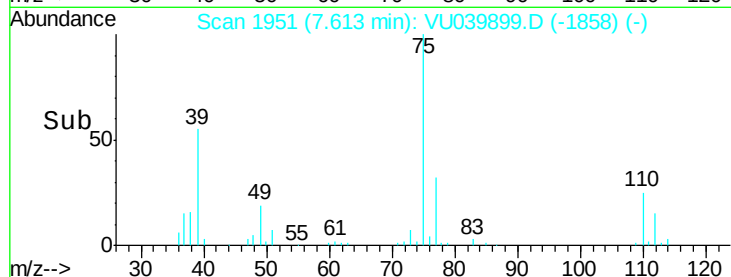
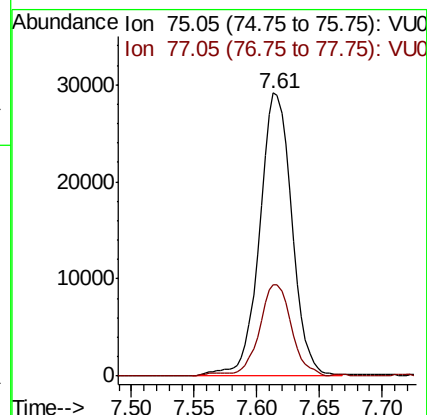
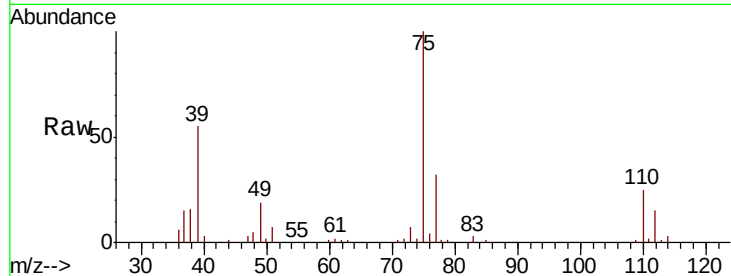




#39
 cis-1,3-Dichloropropene
 Concen: 6.478 ug/L
 RT: 7.61 min Scan# 1951
 Delta R.T. 0.00 min
 Lab File: VU039899.D
 Acq: 19 Aug 2020 10:19

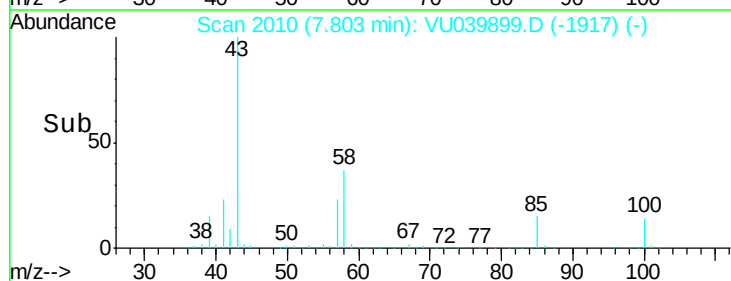
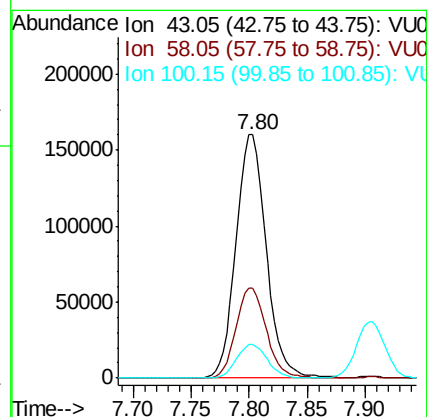
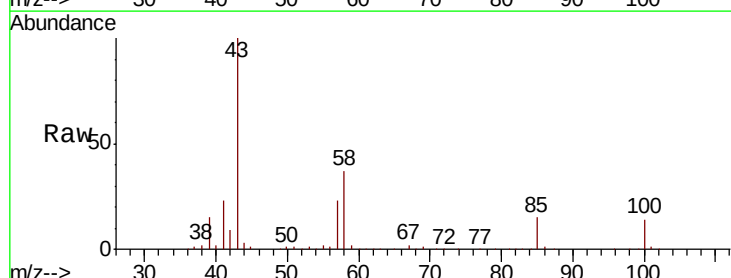
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00504

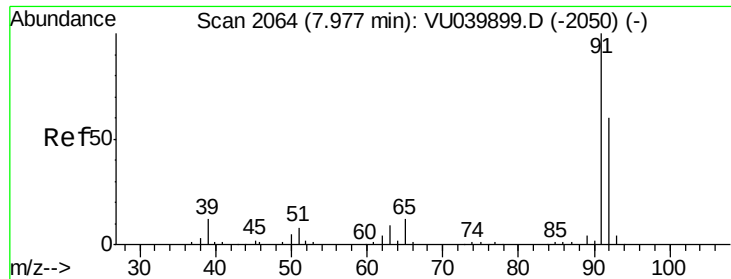
Tot Ion: 75 Resp: 52415
 Ion Ratio Lower Upper
 75 100
 77 32.3 22.6 42.0



#40
 4-Methyl-2-pentanone
 Concen: 65.591 ug/L
 RT: 7.80 min Scan# 2010
 Delta R.T. 0.00 min
 Lab File: VU039899.D
 Acq: 19 Aug 2020 10:19

Tgt Ion: 43 Resp: 290365
 Ion Ratio Lower Upper
 43 100
 58 37.1 29.7 44.5
 100 14.0 11.2 16.8





#42

Toluene

Concen: 6.275 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU039899.D

Acq: 19 Aug 2020 10:19

Instrument :

MSVOA_U

ClientSampleId :

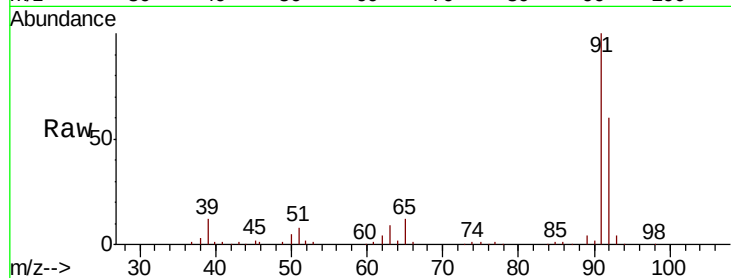
VSTD00504

Tot Ion: 91 Resp: 145596

Ion Ratio Lower Upper

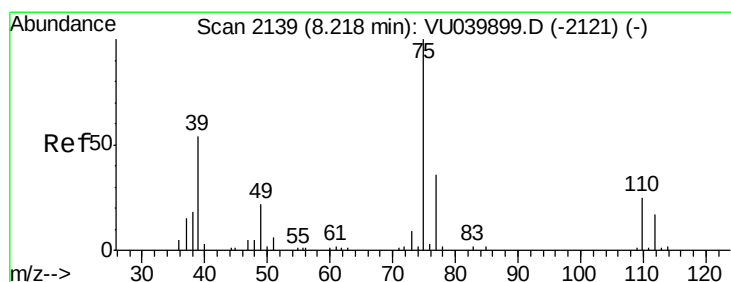
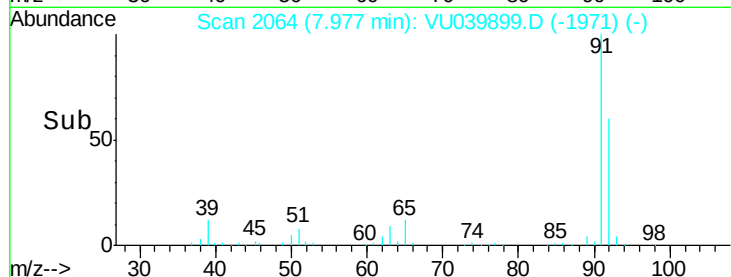
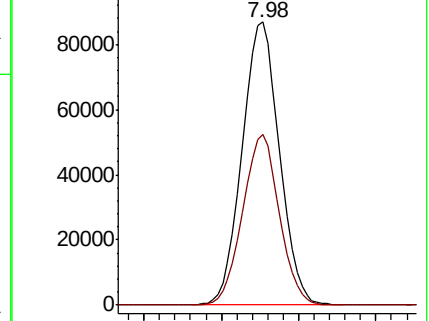
91 100

92 60.4 42.3 78.5



Abundance Ion 91.15 (90.85 to 91.85): VU039899.D (-2050) (-)

Ion 92.15 (91.85 to 92.85): VU039899.D (-2050) (-)



#44

trans-1,3-Dichloropropene

Concen: 6.420 ug/L

RT: 8.22 min Scan# 2139

Delta R.T. 0.00 min

Lab File: VU039899.D

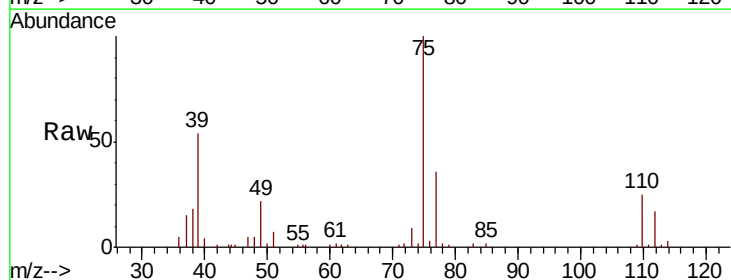
Acq: 19 Aug 2020 10:19

Tgt Ion: 75 Resp: 46206

Ion Ratio Lower Upper

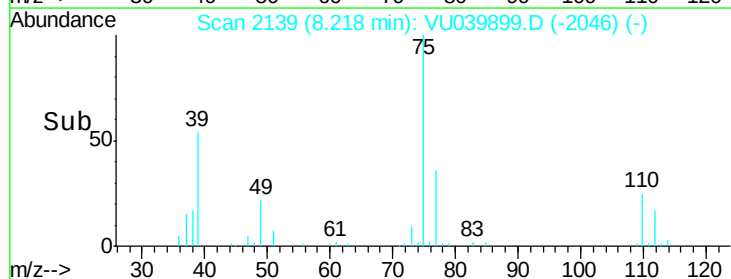
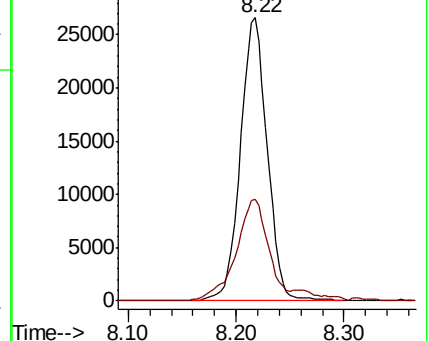
75 100

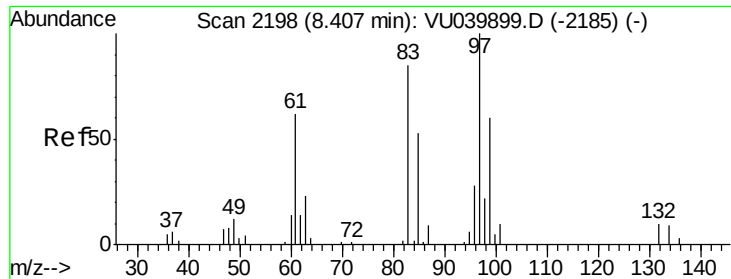
77 36.1 25.3 46.9



Abundance Ion 75.05 (74.75 to 75.75): VU039899.D (-2121) (-)

Ion 77.05 (76.75 to 77.75): VU039899.D (-2121) (-)

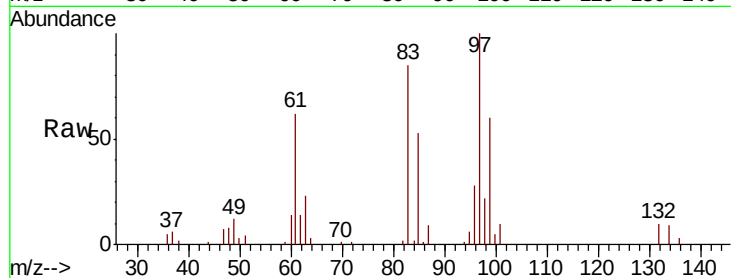




#45
 1,1,2-Trichloroethane
 Concen: 6.432 ug/L
 RT: 8.41 min Scan# 2198
 Delta R.T. 0.00 min
 Lab File: VU039899.D
 Acq: 19 Aug 2020 10:19

Instrument :
 MSVOA_U
 ClientSampleID :
 VSTD00504

Tot Ion:	97	Resp:	28234
Ion	Ratio	Lower	Upper
97	100		
99	60.2	42.1	78.3
83	84.7	59.3	110.1
85	53.2	37.2	69.2



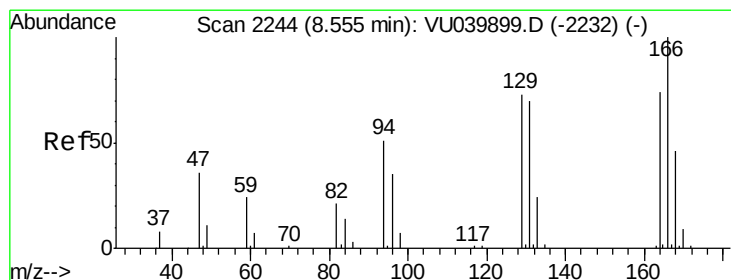
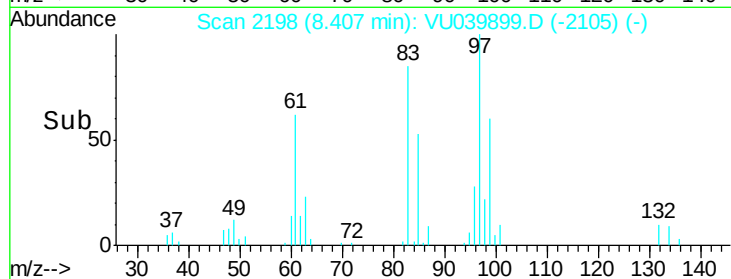
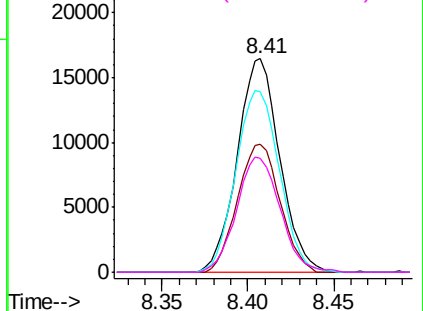
Abundance

Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

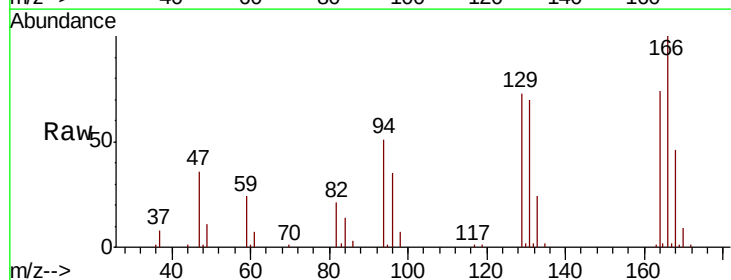
Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47
 Tetrachloroethene
 Concen: 5.729 ug/L
 RT: 8.56 min Scan# 2244
 Delta R.T. 0.00 min
 Lab File: VU039899.D
 Acq: 19 Aug 2020 10:19

Tgt Ion:	164	Resp:	26583
Ion	Ratio	Lower	Upper
164	100		
129	98.7	69.1	128.3
131	94.3	66.0	122.6
166	134.3	94.0	174.6



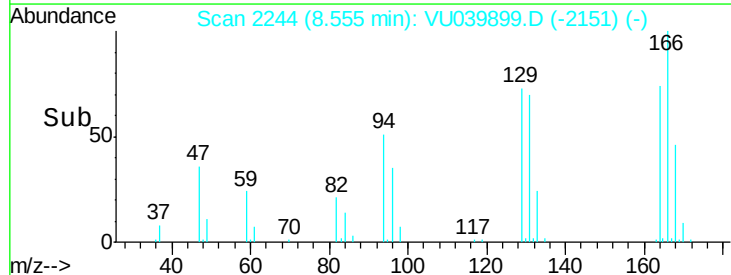
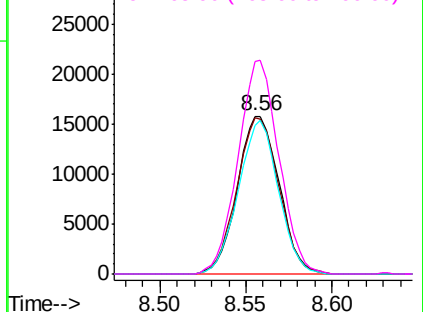
Abundance

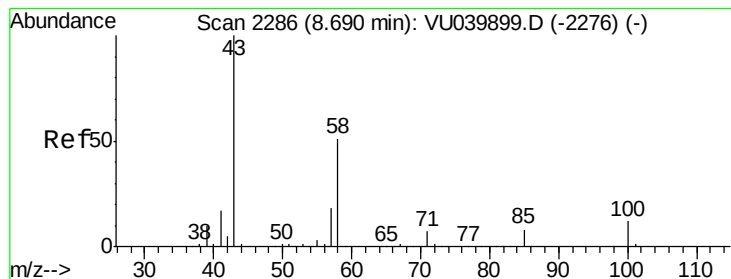
Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V





#48

2-Hexanone

Concen: 65.856 ug/L

RT: 8.69 min Scan# 2286

Delta R.T. 0.00 min

Lab File: VU039899.D

Acq: 19 Aug 2020 10:19

Instrument :
MSVOA_U
ClientSampleId :
VSTD00504

Tot Ion: 43 Resp: 210096

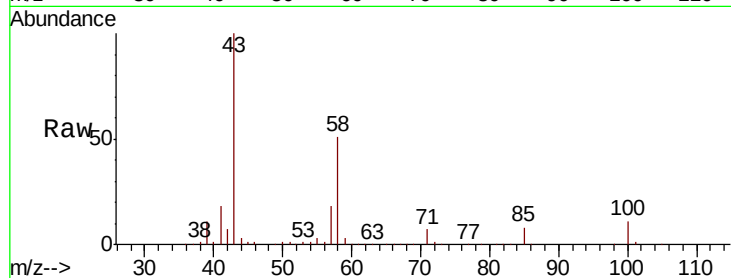
Ion Ratio Lower Upper

43 100

58 51.6 41.3 61.9

57 17.6 14.1 21.1

100 11.4 9.1 13.7

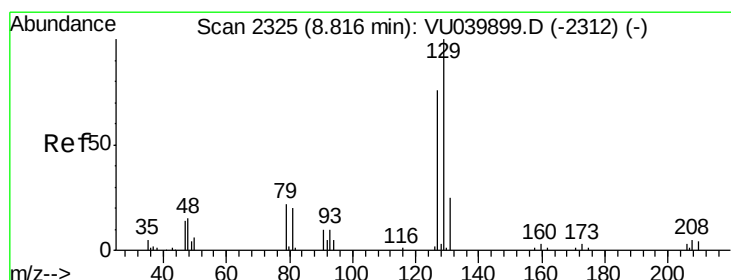
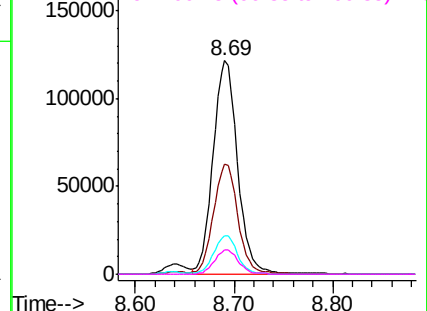
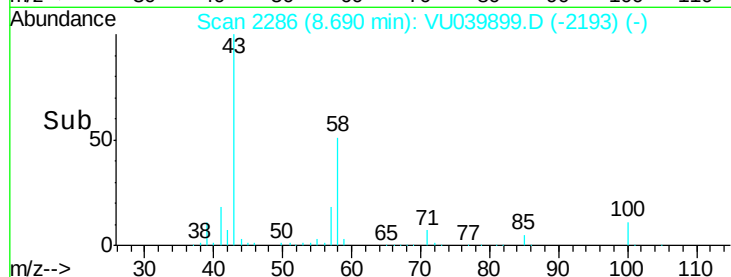


Abundance Ion 43.05 (42.75 to 43.75): VU039899.D (-2193) (-)

Ion 58.05 (57.75 to 58.75): VU039899.D (-2193) (-)

Ion 57.20 (56.90 to 57.90): VU039899.D (-2193) (-)

Ion 100.15 (99.85 to 100.85): VU039899.D (-2193) (-)



#49

Dibromochloromethane

Concen: 6.204 ug/L

RT: 8.82 min Scan# 2325

Delta R.T. 0.00 min

Lab File: VU039899.D

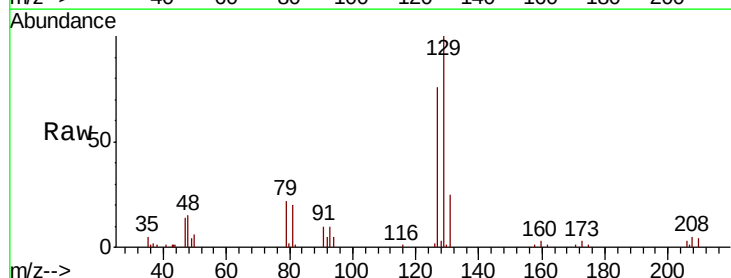
Acq: 19 Aug 2020 10:19

Tgt Ion: 129 Resp: 33305

Ion Ratio Lower Upper

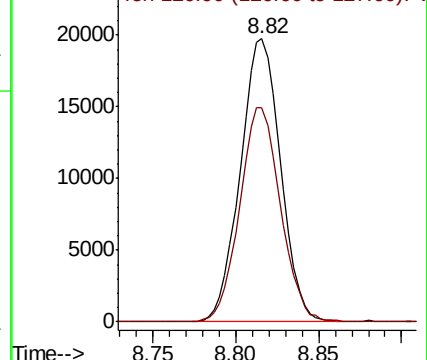
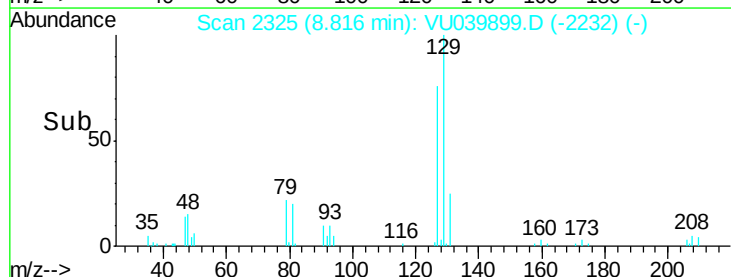
129 100

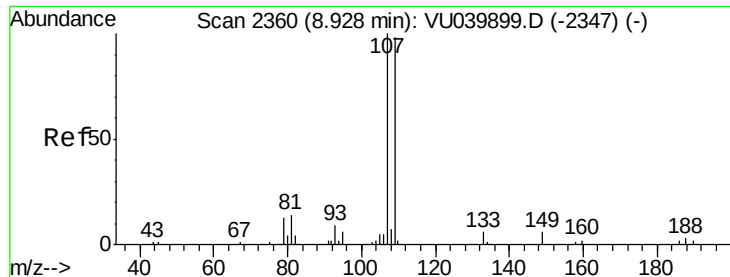
127 75.9 53.1 98.7



Abundance Ion 128.95 (128.65 to 129.65): VU039899.D (-2232) (-)

Ion 126.90 (126.60 to 127.60): VU039899.D (-2232) (-)

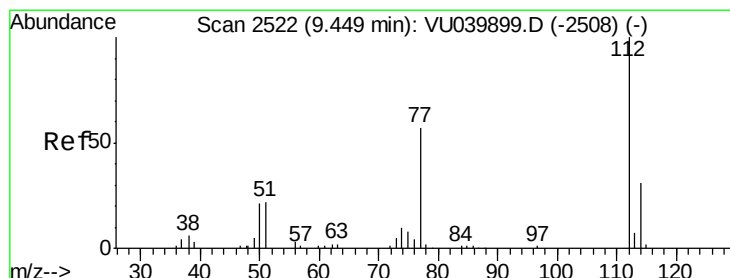
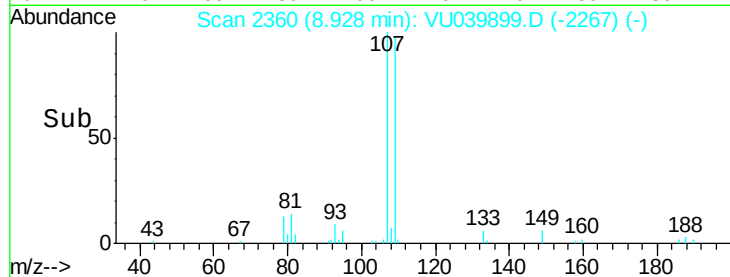
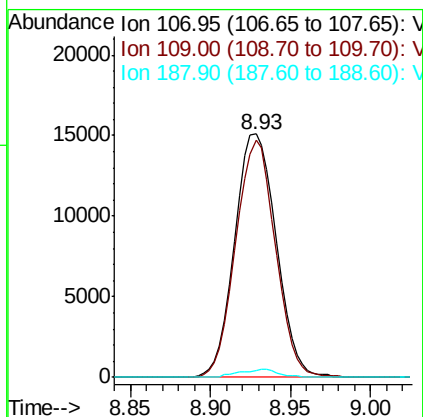
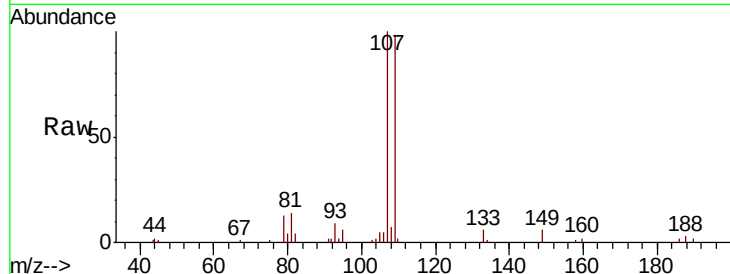




#50
 1,2-Dibromoethane
 Concen: 6.258 ug/L
 RT: 8.93 min Scan# 2360
 Delta R.T. 0.00 min
 Lab File: VU039899.D
 Acq: 19 Aug 2020 10:19

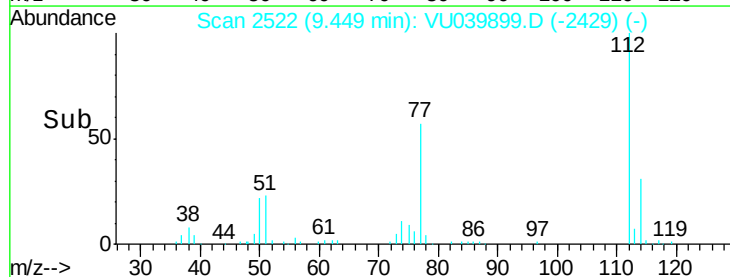
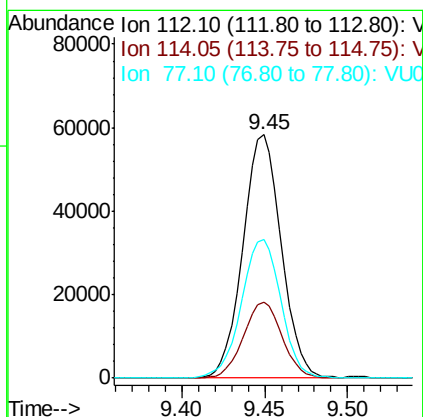
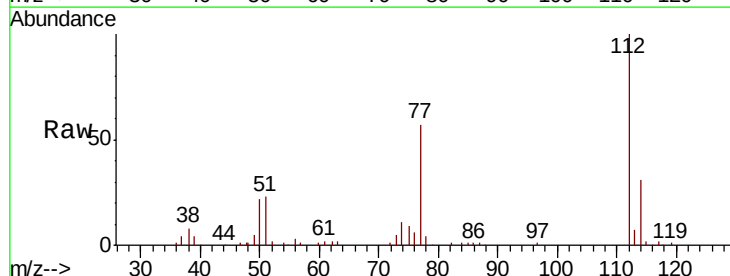
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00504

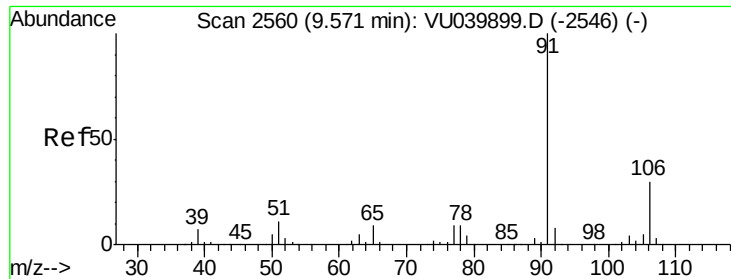
Tot Ion:107 Resp: 26763
 Ion Ratio Lower Upper
 107 100
 109 97.6 68.3 126.9
 188 2.8 2.2 3.4



#51
 Chlorobenzene
 Concen: 6.089 ug/L
 RT: 9.45 min Scan# 2522
 Delta R.T. 0.00 min
 Lab File: VU039899.D
 Acq: 19 Aug 2020 10:19

Tgt Ion:112 Resp: 93834
 Ion Ratio Lower Upper
 112 100
 114 31.1 21.8 40.4
 77 56.7 45.4 68.0





#52

Ethylbenzene

Concen: 6.116 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. 0.00 min

Lab File: VU039899.D

Acq: 19 Aug 2020 10:19

Instrument :

MSVOA_U

ClientSampleId :

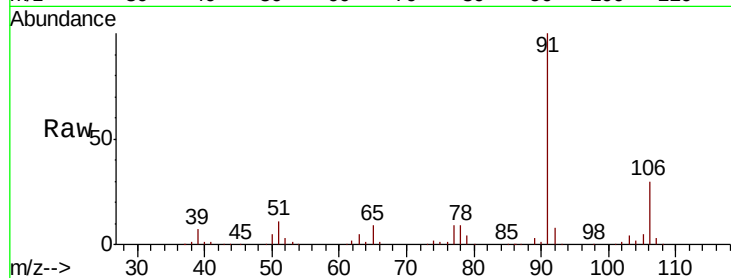
VSTD00504

Tot Ion: 91 Resp: 157132

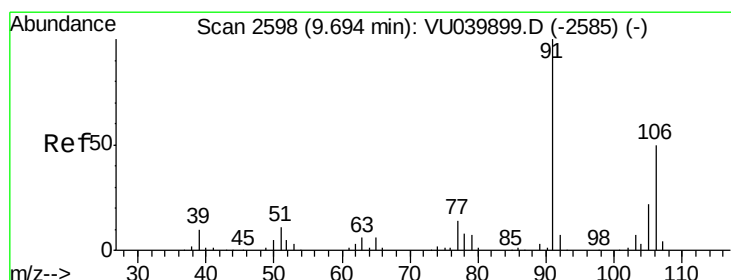
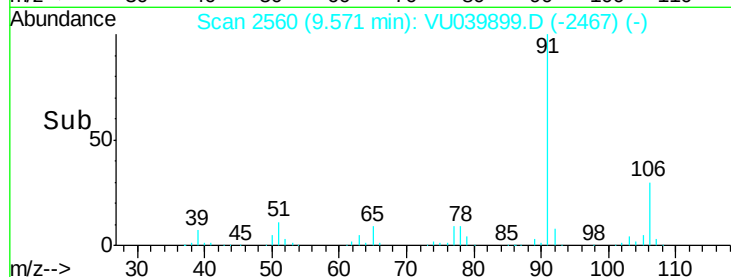
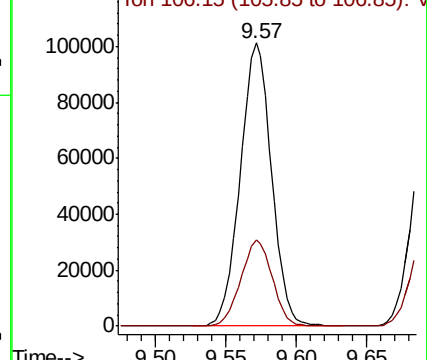
Ion Ratio Lower Upper

91 100

106 30.3 21.2 39.4



Abundance Ion 91.15 (90.85 to 91.85): VU039899.D (-2546) (-)



#53

m,p-Xylene

Concen: 6.304 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VU039899.D

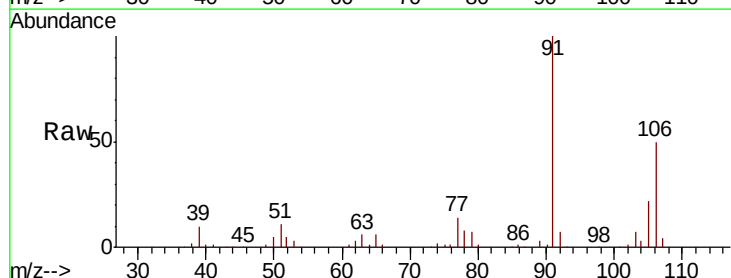
Acq: 19 Aug 2020 10:19

Tgt Ion: 106 Resp: 61709

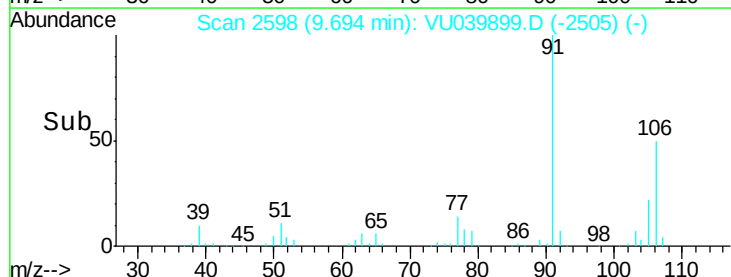
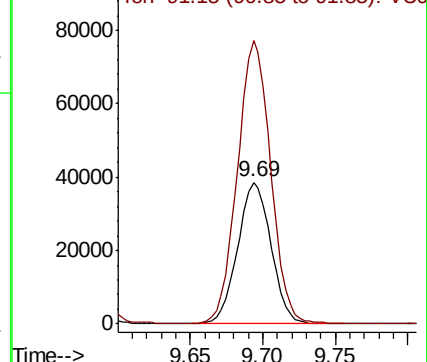
Ion Ratio Lower Upper

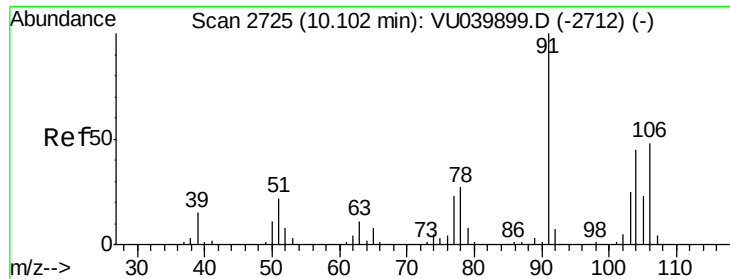
106 100

91 199.7 139.8 259.6



Abundance Ion 106.15 (105.85 to 106.85): VU039899.D (-2585) (-)

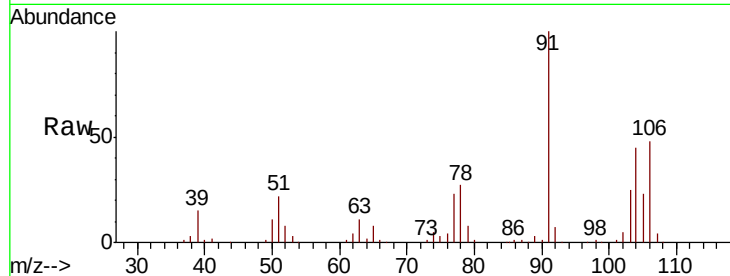




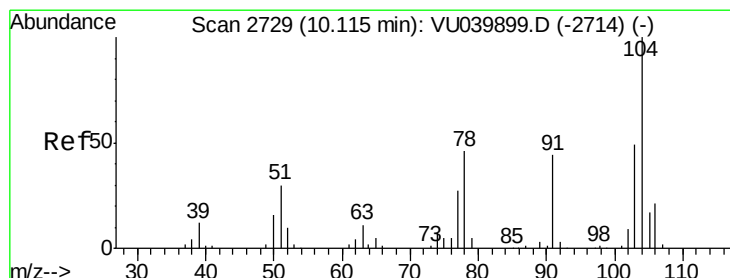
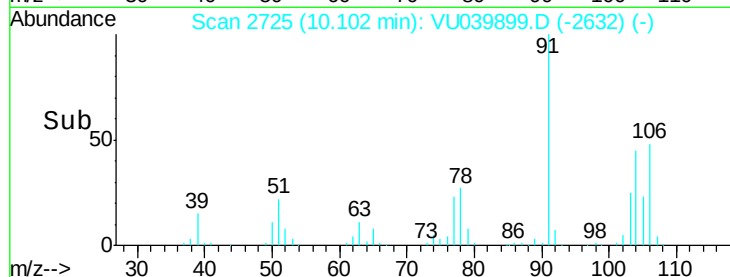
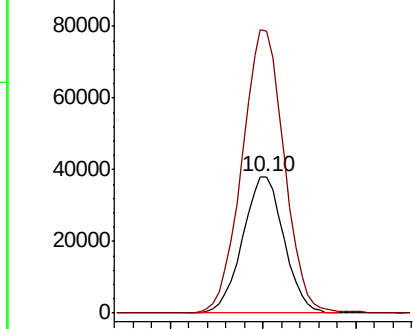
#54
o-Xylene
Concen: 6.187 ug/L
RT: 10.10 min Scan# 2725
Delta R.T. 0.00 min
Lab File: VU039899.D
Acq: 19 Aug 2020 10:19

Instrument :
MSVOA_U
ClientSampleId :
VSTD00504

Tot Ion:106 Resp: 58951
Ion Ratio Lower Upper
106 100
91 206.6 144.6 268.6

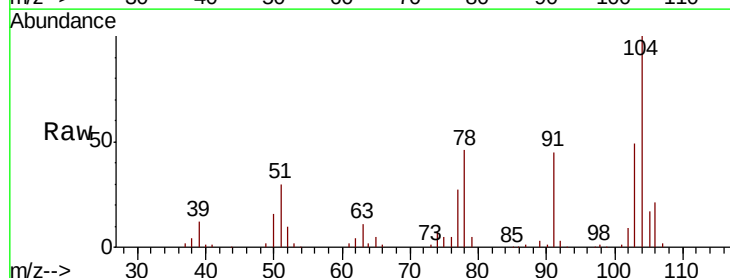


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

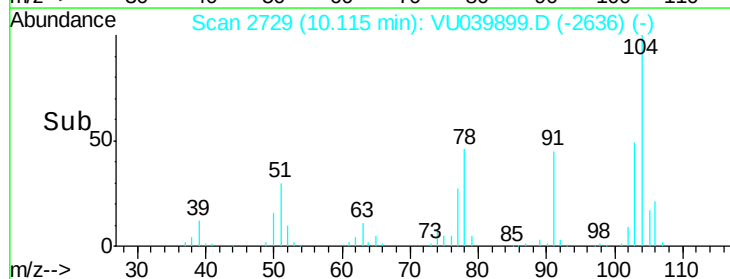
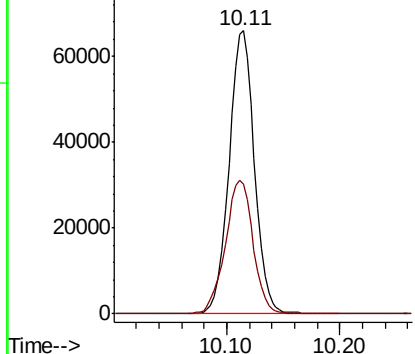


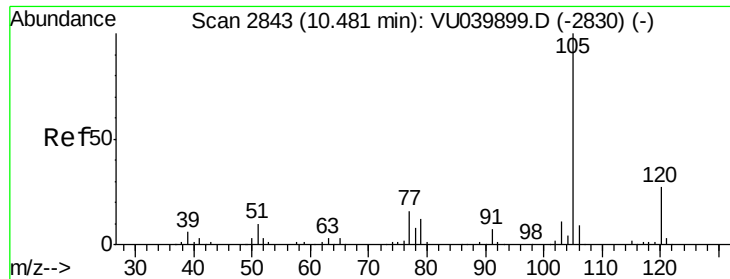
#55
Styrene
Concen: 6.339 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. 0.00 min
Lab File: VU039899.D
Acq: 19 Aug 2020 10:19

Tgt Ion:104 Resp: 102697
Ion Ratio Lower Upper
104 100
78 46.1 32.3 59.9



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





#56

Isopropylbenzene

Concen: 6.130 ug/L

RT: 10.48 min Scan# 2843

Delta R.T. 0.00 min

Lab File: VU039899.D

Acq: 19 Aug 2020 10:19

Instrument :

MSVOA_U

ClientSampled :

VSTD00504

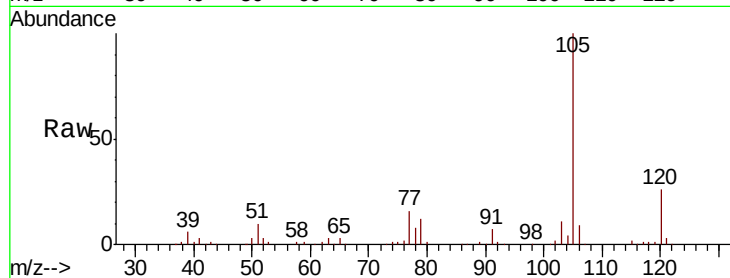
Tot Ion:105 Resp: 156370

Ion Ratio Lower Upper

105 100

120 26.9 21.5 32.3

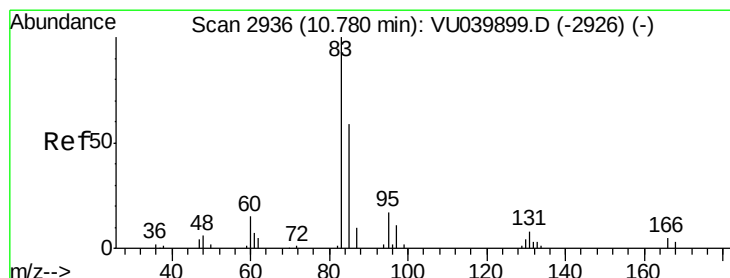
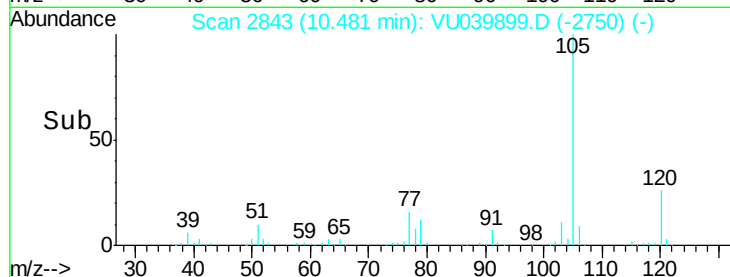
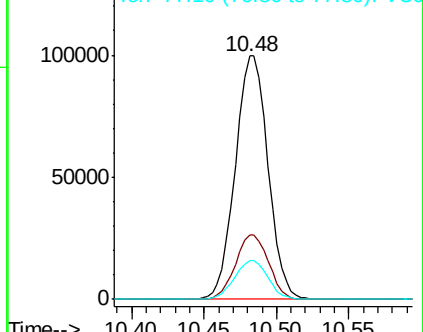
77 16.3 13.0 19.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 6.017 ug/L

RT: 10.78 min Scan# 2936

Delta R.T. 0.00 min

Lab File: VU039899.D

Acq: 19 Aug 2020 10:19

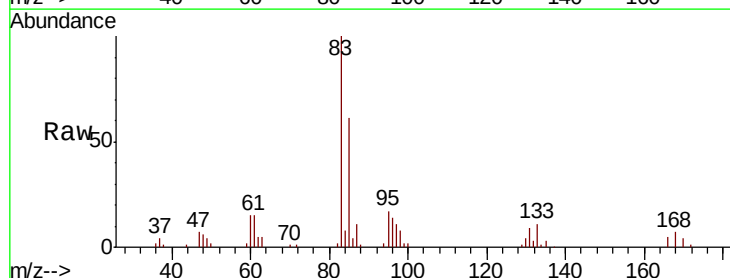
Tgt Ion: 83 Resp: 35998

Ion Ratio Lower Upper

83 100

85 61.2 42.8 79.6

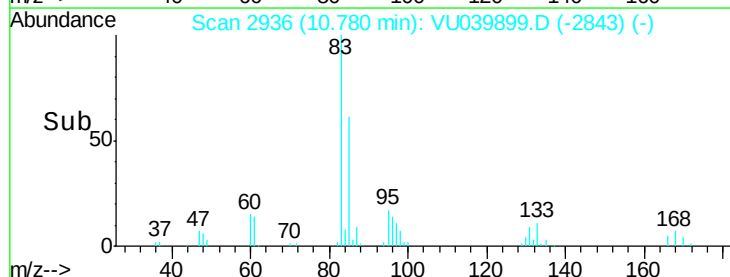
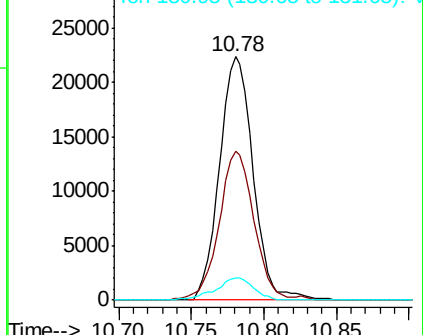
131 9.3 7.4 11.2

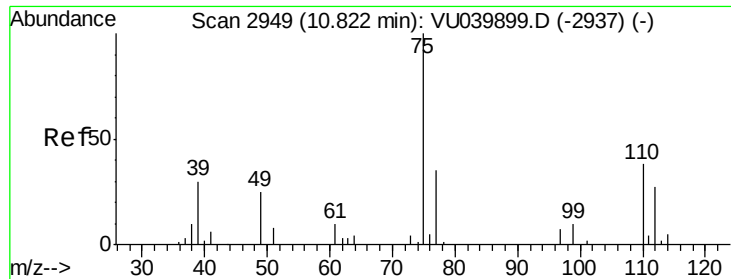


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 6.172 ug/L

RT: 10.82 min Scan# 2949

Delta R.T. 0.00 min

Lab File: VU039899.D

Acq: 19 Aug 2020 10:19

Instrument :

MSVOA_U

ClientSampleId :

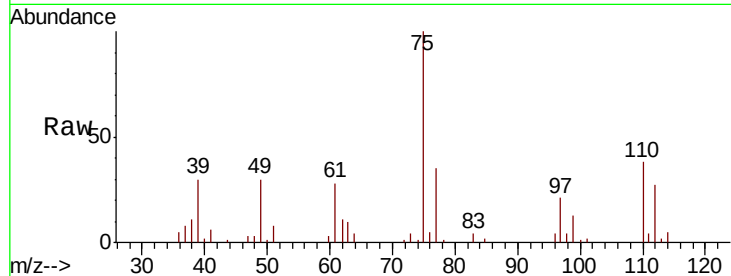
VSTD00504

Tot Ion: 75 Resp: 25894

Ion Ratio Lower Upper

75 100

77 34.3 27.4 41.2



Abundance Ion 75.00 (74.70 to 75.70): VU039899.D (-2937) (-)

Ion 77.00 (76.70 to 77.70): VU039899.D (-2937) (-)

10.82

15000

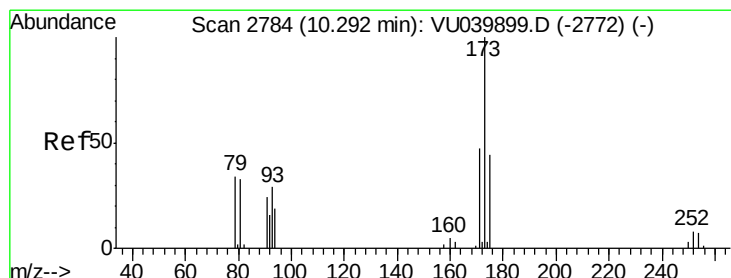
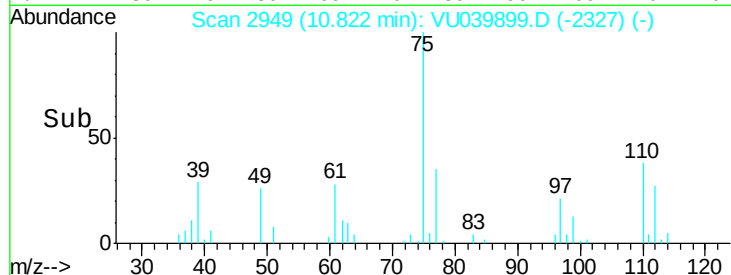
10000

5000

0

Time-->

10.75 10.80 10.85



#61

Bromoform

Concen: 6.297 ug/L

RT: 10.29 min Scan# 2784

Delta R.T. 0.00 min

Lab File: VU039899.D

Acq: 19 Aug 2020 10:19

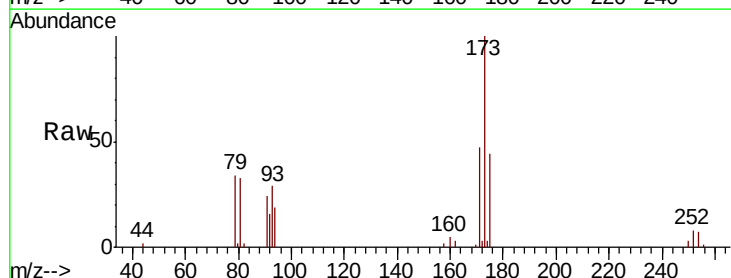
Tgt Ion: 173 Resp: 18916

Ion Ratio Lower Upper

173 100

175 47.0 37.6 56.4

254 7.3 5.8 8.8



Abundance Ion 172.90 (172.60 to 173.60): VU039899.D (-2772) (-)

Ion 174.90 (174.60 to 175.60): VU039899.D (-2772) (-)

Ion 253.75 (253.45 to 254.45): VU039899.D (-2772) (-)

10.29

15000

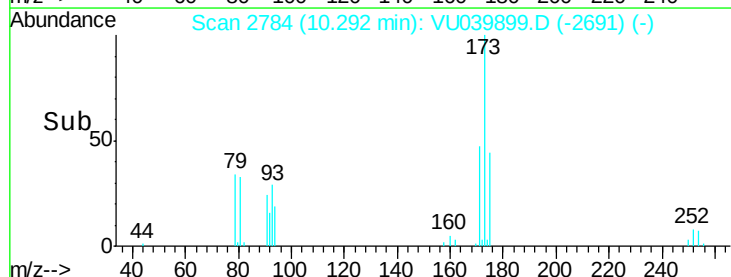
10000

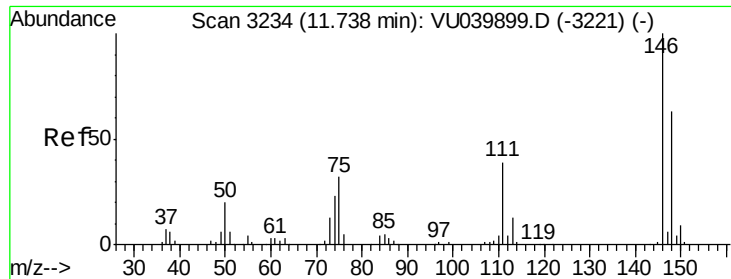
5000

0

Time-->

10.25 10.30 10.35





#62

1,3-Dichlorobenzene

Concen: 6.167 ug/L

RT: 11.74 min Scan# 3234

Delta R.T. 0.00 min

Lab File: VU039899.D

Acq: 19 Aug 2020 10:19

Instrument :

MSVOA_U

ClientSampleId :

VSTD00504

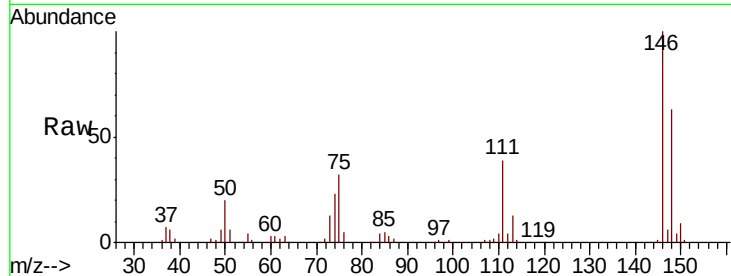
Tot Ion:146 Resp: 79640

Ion Ratio Lower Upper

146 100

111 39.5 27.6 51.4

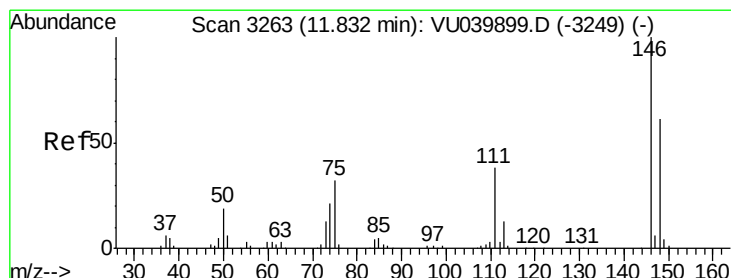
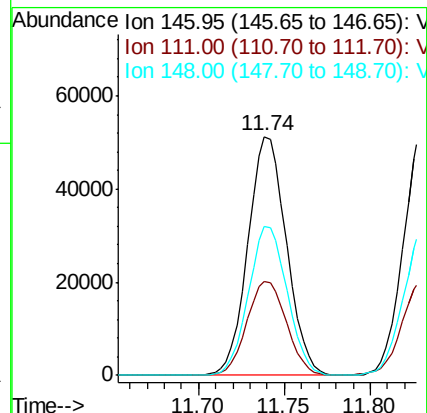
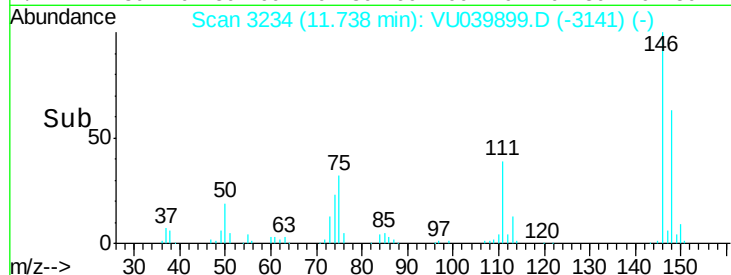
148 62.6 43.8 81.4



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 6.007 ug/L

RT: 11.83 min Scan# 3263

Delta R.T. 0.00 min

Lab File: VU039899.D

Acq: 19 Aug 2020 10:19

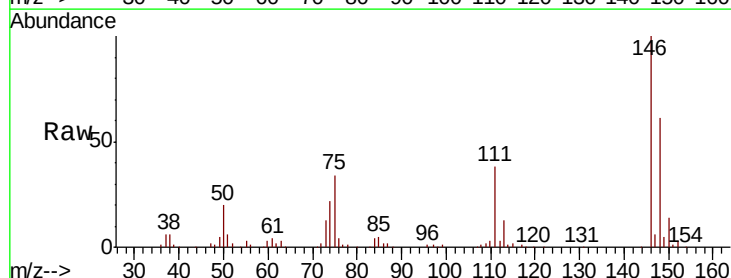
Tgt Ion:146 Resp: 81092

Ion Ratio Lower Upper

146 100

111 37.8 26.5 49.1

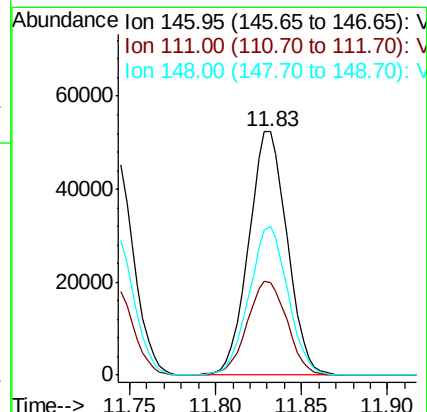
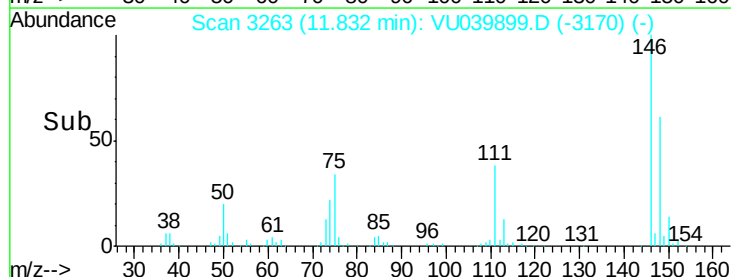
148 61.1 42.8 79.4

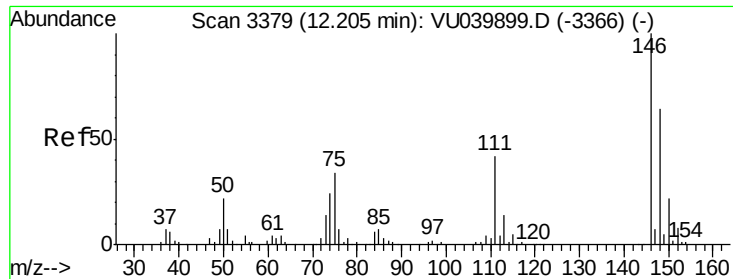


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 5.962 ug/L

RT: 12.20 min Scan# 3379

Delta R.T. 0.00 min

Lab File: VU039899.D

Acq: 19 Aug 2020 10:19

Instrument :

MSVOA_U

ClientSampleId :

VSTD00504

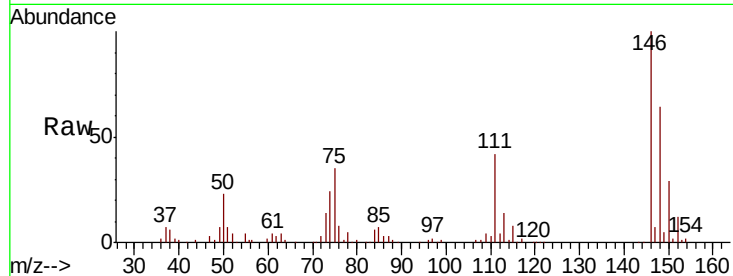
Tot Ion:146 Resp: 75280

Ion Ratio Lower Upper

146 100

111 41.7 33.4 50.0

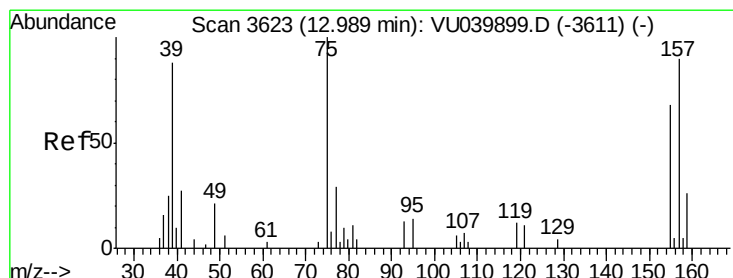
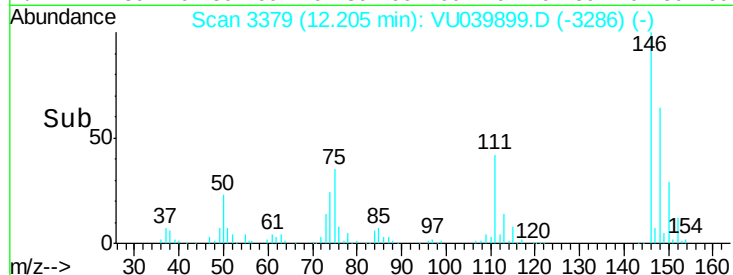
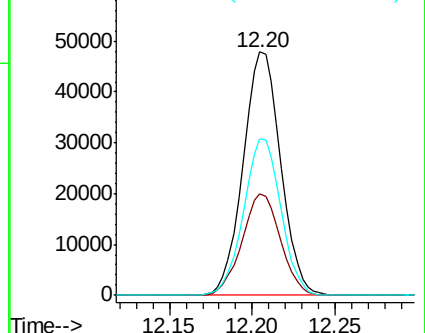
148 64.2 51.4 77.0



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 6.511 ug/L

RT: 12.99 min Scan# 3623

Delta R.T. 0.00 min

Lab File: VU039899.D

Acq: 19 Aug 2020 10:19

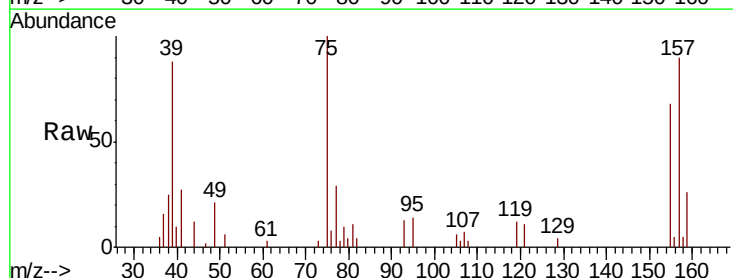
Tgt Ion: 75 Resp: 6359

Ion Ratio Lower Upper

75 100

155 68.3 54.6 82.0

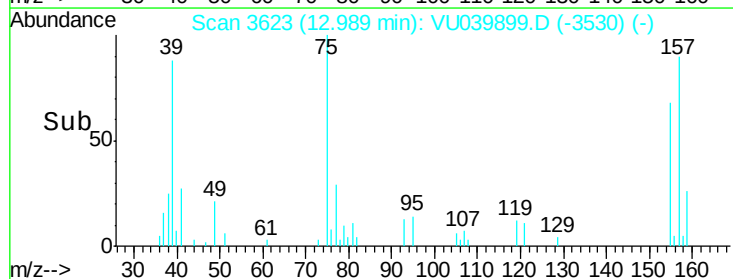
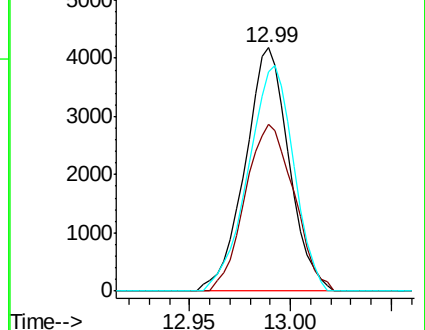
157 90.3 72.2 108.4

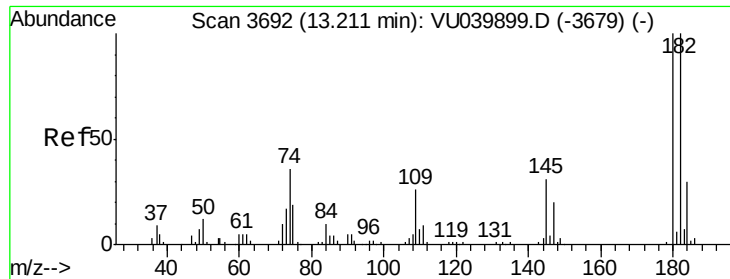


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

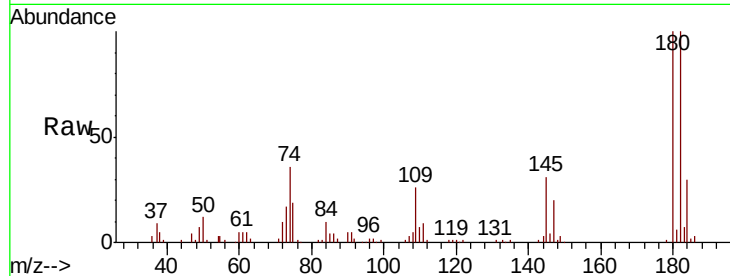




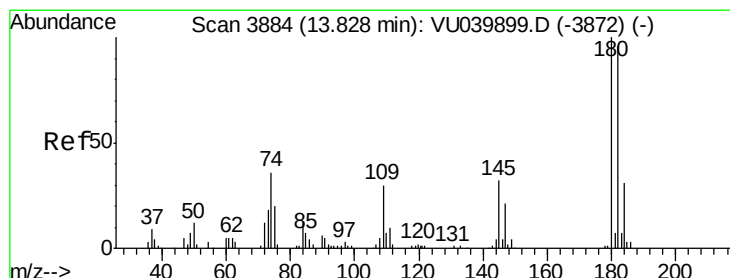
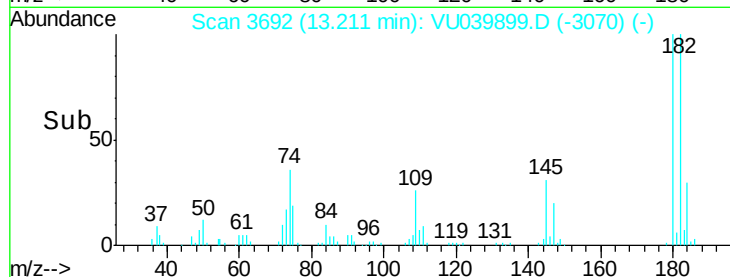
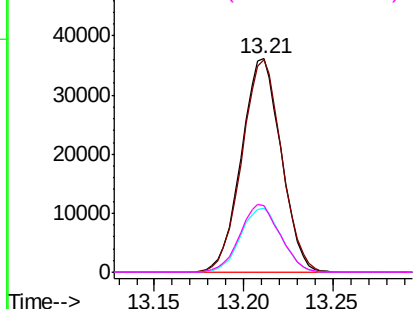
#67
 1,3,5-Trichlorobenzene
 Concen: 5.829 ug/L
 RT: 13.21 min Scan# 3692
 Delta R.T. 0.00 min
 Lab File: VU039899.D
 Acq: 19 Aug 2020 10:19

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00504

Tot Ion:180	Resp:	56503
Ion	Ratio	Lower Upper
180	100	
182	99.0	79.2 118.8
184	30.7	24.6 36.8
145	32.1	25.7 38.5

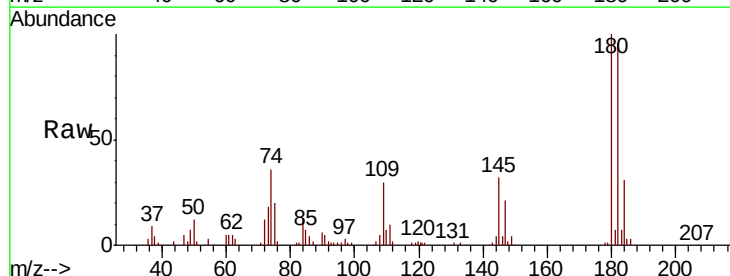


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

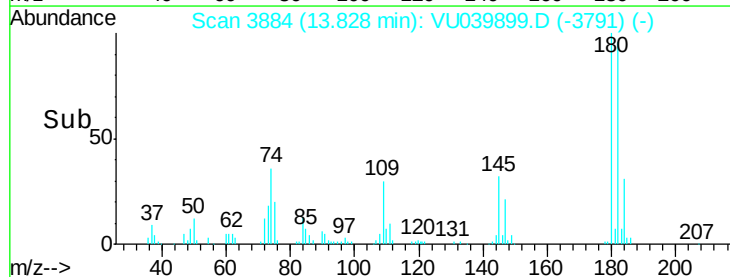
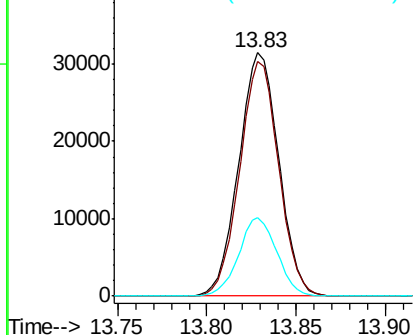


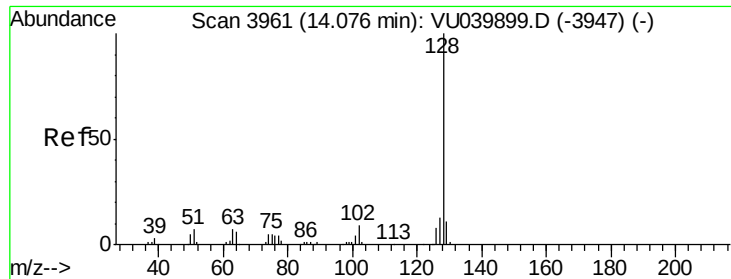
#68
 1,2,4-trichlorobenzene
 Concen: 6.066 ug/L
 RT: 13.83 min Scan# 3884
 Delta R.T. 0.00 min
 Lab File: VU039899.D
 Acq: 19 Aug 2020 10:19

Tgt Ion:180	Resp:	49343
Ion	Ratio	Lower Upper
180	100	
182	94.0	75.2 112.8
145	30.7	24.6 36.8



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 6.267 ug/L

RT: 14.08 min Scan# 3961

Delta R.T. 0.00 min

Lab File: VU039899.D

Acq: 19 Aug 2020 10:19

Instrument :

MSVOA_U

ClientSampleId :

VSTD00504

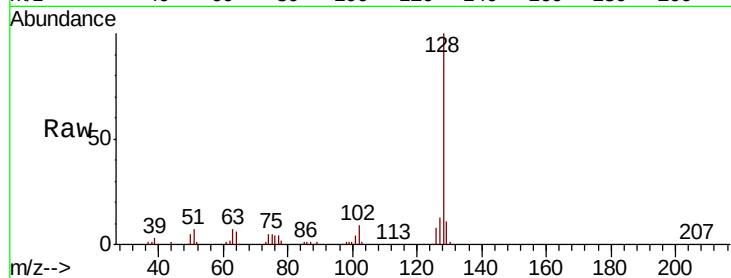
Tot Ion:128 Resp: 92063

Ion Ratio Lower Upper

128 100

129 10.6 8.5 12.7

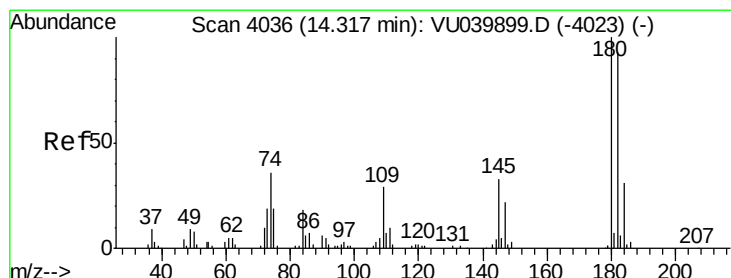
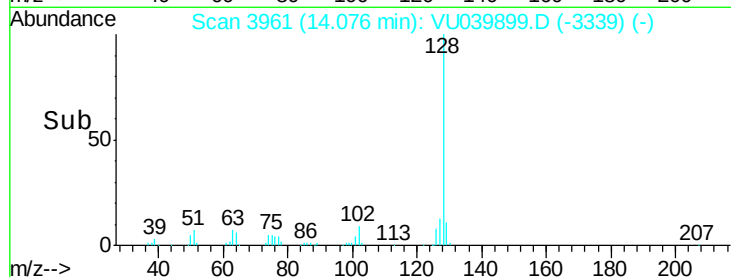
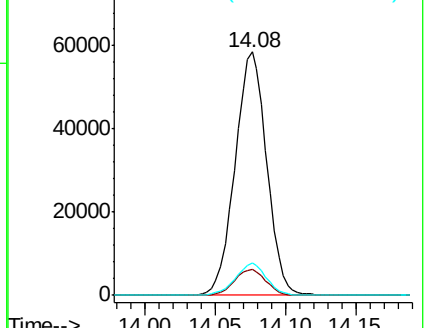
127 12.8 10.2 15.4



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 6.320 ug/L

RT: 14.32 min Scan# 4036

Delta R.T. 0.00 min

Lab File: VU039899.D

Acq: 19 Aug 2020 10:19

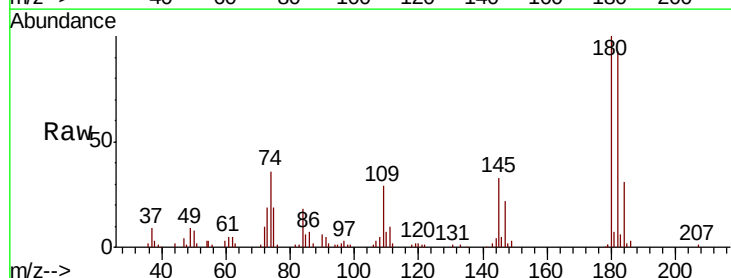
Tgt Ion:180 Resp: 46054

Ion Ratio Lower Upper

180 100

182 93.8 75.0 112.6

145 33.0 26.4 39.6



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

