

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071620\
 Data File : VU039536.D
 Acq On : 16 Jul 2020 19:56
 Operator : SY/MD
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 17 01:12:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR070720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Jul 17 01:06:47 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.27	114	97083	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	96987	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	48609	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	25256	4.49	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	89.80%
7) Chloroethane-d5	1.92	69	32371	5.62	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	112.40%
11) 1,1-Dichloroethene-d2	2.58	63	53328	4.82	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	96.40%
20) 2-Butanone-d5	4.65	46	110528	42.93	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	85.86%
24) Chloroform-d	5.08	84	56897	4.75	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.00%
26) 1,2-Dichloroethane-d4	5.72	65	37063	4.93	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.60%
32) Benzene-d6	5.75	84	114286	4.89	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.80%
36) 1,2-Dichloropropane-d6	6.71	67	36449	4.44	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	88.80%
41) Toluene-d8	7.91	98	104312	5.15	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.00%
43) trans-1,3-Dichloropropene-	8.19	79	16208	4.47	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.40%
46) 2-Hexanone-d5	8.64	63	88297	41.09	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	82.18%
57) 1,1,2,2-Tetrachloroethane-	10.76	84	35687	4.39	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	87.80%
64) 1,2-Dichlorobenzene-d4	12.19	152	43296	4.99	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	30981	5.265	ug/L 97
3) Chloromethane	1.53	50	31508	4.420	ug/L 98
5) Vinyl chloride	1.61	62	34542	4.364	ug/L 97
6) Bromomethane	1.87	94	23053	6.762	ug/L 92
8) Chloroethane	1.94	64	31457	5.500	ug/L 100
9) Trichlorofluoromethane	2.15	101	64502	4.693	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	27839	4.935	ug/L 99
12) 1,1-Dichloroethene	2.59	96	25542	4.424	ug/L 91
13) Acetone	2.66	43	57554	41.416	ug/L 98
14) Carbon disulfide	2.81	76	79817	3.924	ug/L 97
15) Methyl Acetate	2.97	43	15563	4.240	ug/L 95
16) Methylene chloride	3.06	84	32694	4.502	ug/L 93
17) Methyl tert-butyl Ether	3.38	73	78240	4.301	ug/L 99
18) trans-1,2-Dichloroethene	3.38	96	28335	4.433	ug/L 96
19) 1,1-Dichloroethane	3.89	63	58756	4.698	ug/L 97
21) 2-Butanone	4.73	43	103186	41.601	ug/L 99
22) cis-1,2-Dichloroethene	4.69	96	32565	4.544	ug/L 93

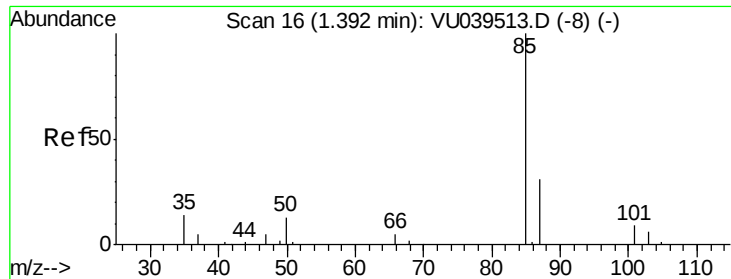
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071620\
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 QLast Update : Fri Jul 17 01:06:47 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.00	128	14845	4.559	ug/L	91
25) Chloroform	5.11	83	66050	5.230	ug/L	98
27) 1,2-Dichloroethane	5.81	62	44898	4.914	ug/L	100
29) 1,1,1-Trichloroethane	5.33	97	52633	4.607	ug/L	96
30) Cyclohexane	5.41	56	53083	4.414	ug/L	97
31) Carbon tetrachloride	5.54	117	44267	4.542	ug/L	99
33) Benzene	5.79	78	129501	4.466	ug/L	100
34) Trichloroethene	6.56	95	34249	4.569	ug/L	99
35) Methylcyclohexane	6.78	83	52695	4.388	ug/L	97
37) 1,2-Dichloropropane	6.81	63	35852	4.536	ug/L	99
38) Bromodichloromethane	7.12	83	44792	4.437	ug/L	100
39) cis-1,3-Dichloropropene	7.62	75	49307	4.126	ug/L	98
40) 4-Methyl-2-pentanone	7.80	43	273557	41.485	ug/L	98
42) Toluene	7.98	91	142134	4.578	ug/L	97
44) trans-1,3-Dichloropropene	8.22	75	44736	4.220	ug/L	100
45) 1,1,2-Trichloroethane	8.41	97	26301	4.632	ug/L	96
47) Tetrachloroethene	8.56	164	24594	4.717	ug/L	96
48) 2-Hexanone	8.69	43	198202	40.765	ug/L	99
49) Dibromochloromethane	8.82	129	31181	4.534	ug/L	94
50) 1,2-Dibromoethane	8.93	107	25692	4.454	ug/L	92
51) Chlorobenzene	9.45	112	90792	4.785	ug/L	96
52) Ethylbenzene	9.57	91	164402	4.791	ug/L	99
53) m,p-Xylene	9.70	106	60863	4.707	ug/L	99
54) o-Xylene	10.10	106	57630	4.578	ug/L	96
55) Styrene	10.12	104	98075	4.478	ug/L	97
56) Isopropylbenzene	10.48	105	163301	4.797	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.78	83	35969	4.551	ug/L	95
59) 1,2,3-Trichloropropane	10.82	75	25359	4.353	ug/L	99
61) Bromoform	10.29	173	17669	4.313	ug/L	98
62) 1,3-Dichlorobenzene	11.74	146	70747	4.645	ug/L	97
63) 1,4-Dichlorobenzene	11.83	146	68724	4.497	ug/L	97
65) 1,2-Dichlorobenzene	12.21	146	69056	4.522	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.99	75	5499	4.077	ug/L	84
67) 1,3,5-Trichlorobenzene	13.21	180	51143	4.487	ug/L	99
68) 1,2,4-trichlorobenzene	13.83	180	41855	4.291	ug/L	97
69) Naphthalene	14.08	128	68450	3.488	ug/L	100
70) 1,2,3-Trichlorobenzene	14.32	180	37546	4.154	ug/L	95

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



#2

Dichlorodifluoromethane

Concen: 5.265 ug/L

RT: 1.39 min Scan# 16

Delta R.T. -0.00 min

Lab File: VU039536.D

Acq: 16 Jul 2020 19:56

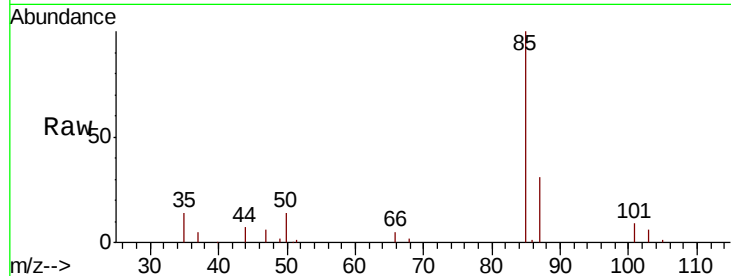
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 30981

Ion Ratio Lower Upper

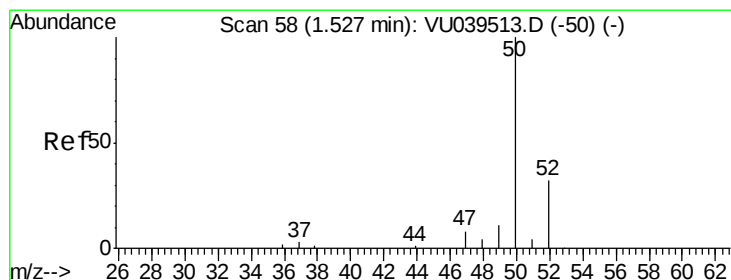
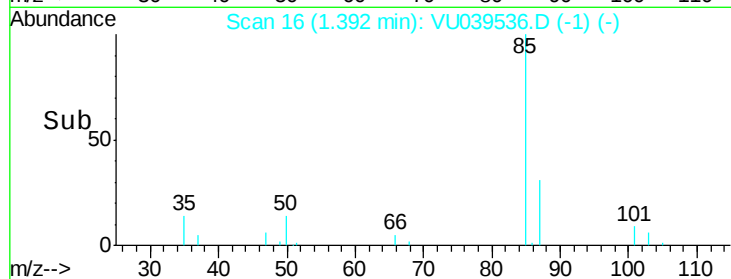
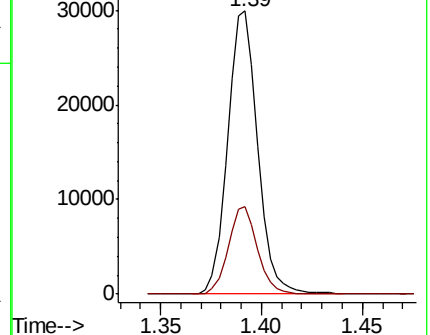
85 100

87 29.9 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VU039513.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VU039513.D (-8) (-)



#3

Chloromethane

Concen: 4.420 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU039536.D

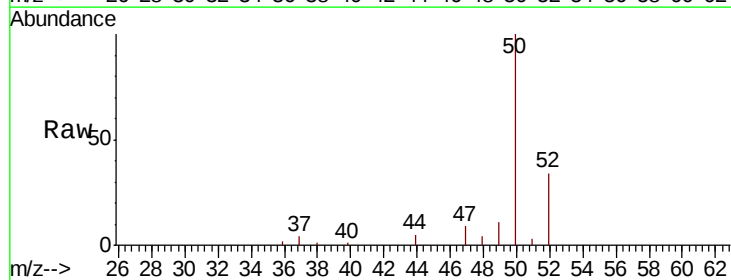
Acq: 16 Jul 2020 19:56

Tgt Ion: 50 Resp: 31508

Ion Ratio Lower Upper

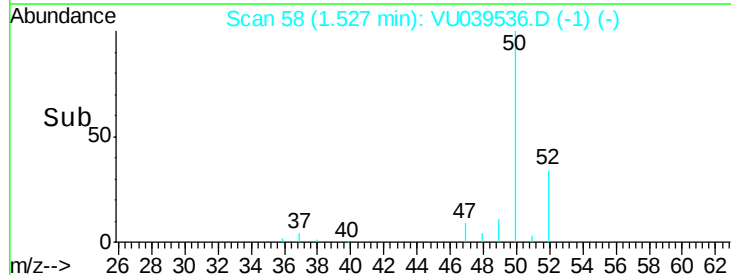
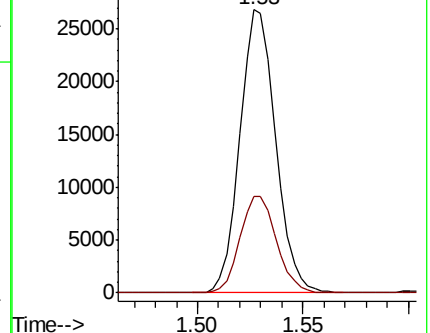
50 100

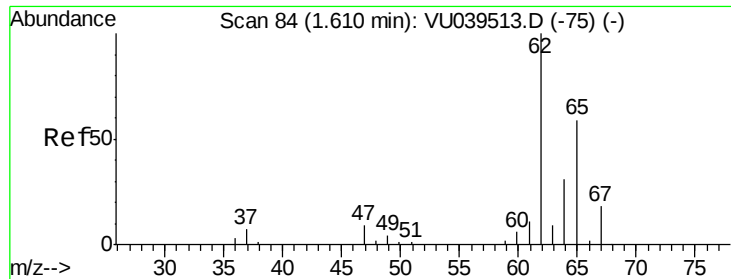
52 34.3 23.0 42.8



Abundance Ion 50.05 (49.75 to 50.75): VU039513.D (-50) (-)

Ion 52.05 (51.75 to 52.75): VU039513.D (-50) (-)





#5

Vinyl chloride

Concen: 4.364 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU039536.D

Acq: 16 Jul 2020 19:56

Instrument :

MSVOA_U

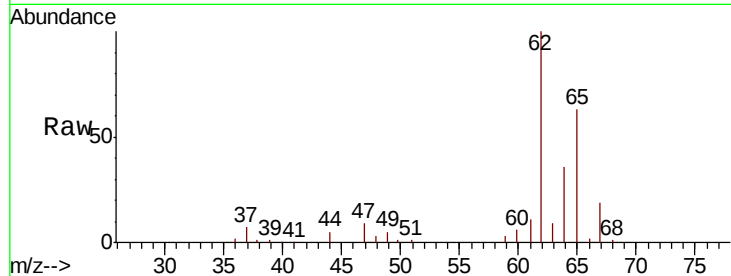
ClientSampleId :

Tot Ion: 62 Resp: 34542

Ion Ratio Lower Upper

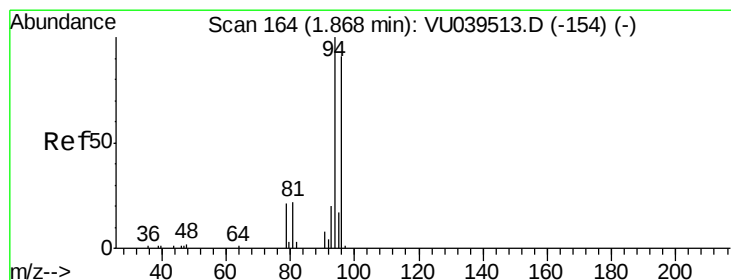
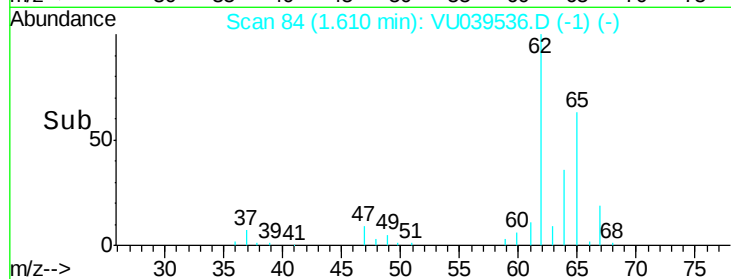
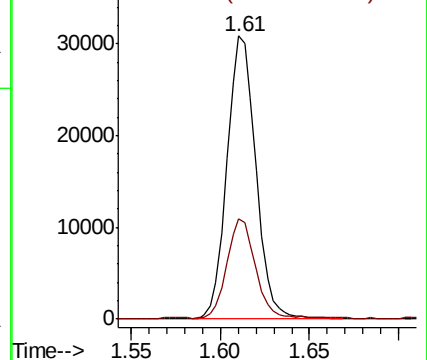
62 100

64 35.6 23.7 44.1



Abundance Ion 62.00 (61.70 to 62.70): VU039513.D (-75) (-)

Ion 64.10 (63.80 to 64.80): VU039513.D (-75) (-)



#6

Bromomethane

Concen: 6.762 ug/L

RT: 1.87 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU039536.D

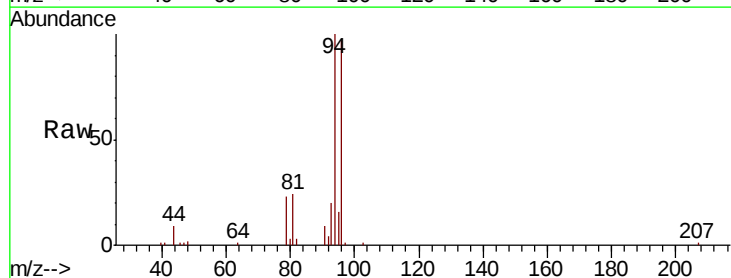
Acq: 16 Jul 2020 19:56

Tgt Ion: 94 Resp: 23053

Ion Ratio Lower Upper

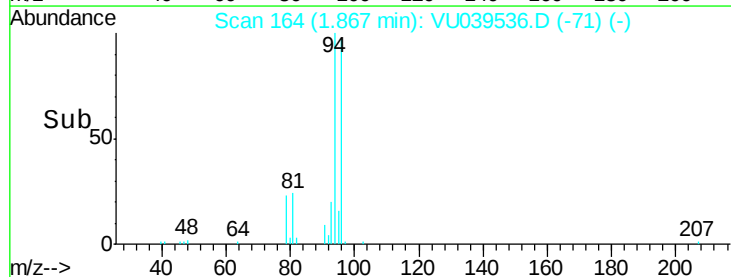
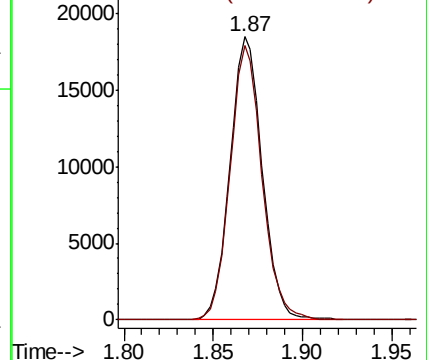
94 100

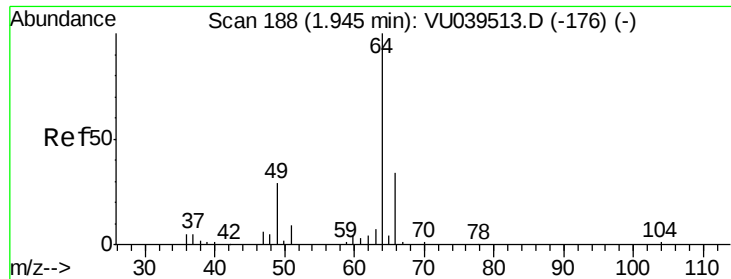
96 96.9 62.7 116.5



Abundance Ion 94.00 (93.70 to 94.70): VU039513.D (-154) (-)

Ion 96.00 (95.70 to 96.70): VU039513.D (-154) (-)





#8

Chloroethane

Concen: 5.500 ug/L

RT: 1.94 min Scan# 188

Delta R.T. -0.00 min

Lab File: VU039536.D

Acq: 16 Jul 2020 19:56

Instrument :

MSVOA_U

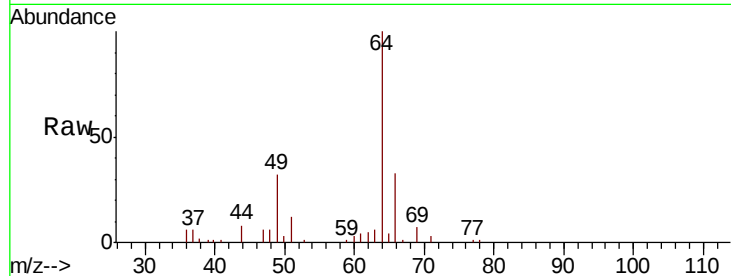
ClientSampleId :

Tot Ion: 64 Resp: 31457

Ion Ratio Lower Upper

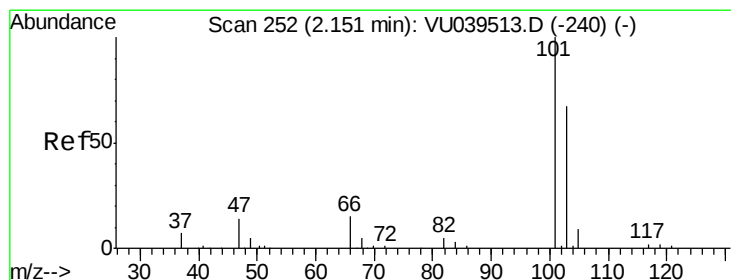
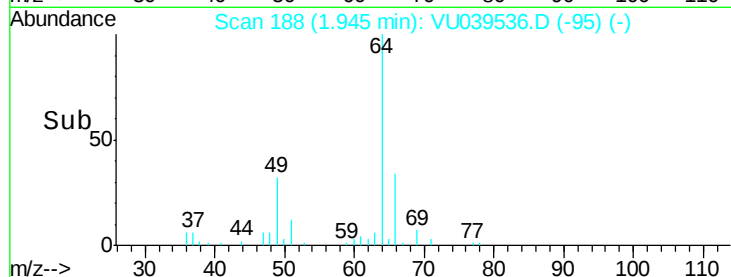
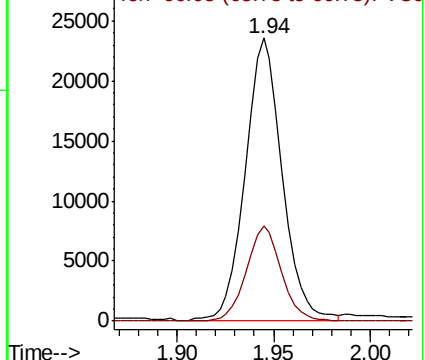
64 100

66 33.4 23.5 43.7



Abundance Ion 64.10 (63.80 to 64.80): VU039513.D (-176) (-)

Ion 66.05 (65.75 to 66.75): VU039513.D (-176) (-)



#9

Trichlorofluoromethane

Concen: 4.693 ug/L

RT: 2.15 min Scan# 252

Delta R.T. -0.00 min

Lab File: VU039536.D

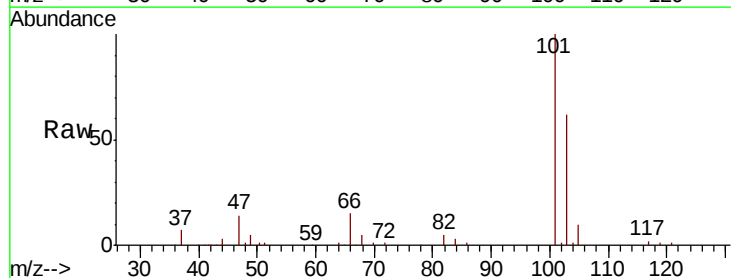
Acq: 16 Jul 2020 19:56

Tgt Ion: 101 Resp: 64502

Ion Ratio Lower Upper

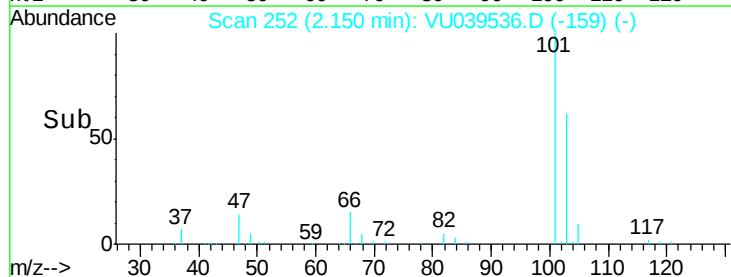
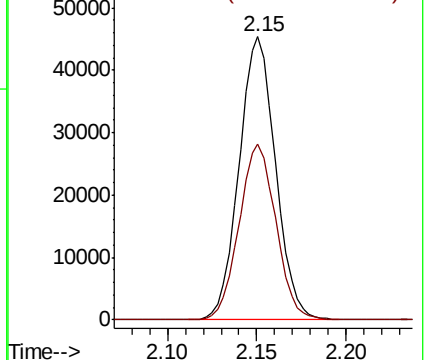
101 100

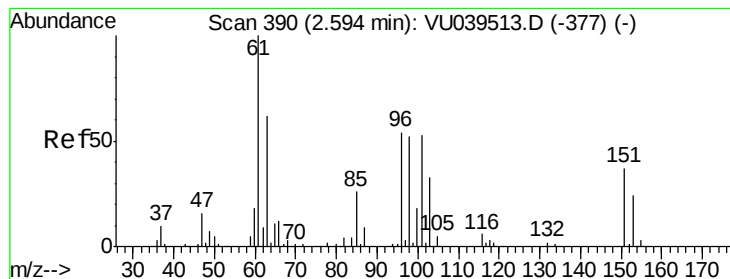
103 62.8 50.6 76.0



Abundance Ion 101.00 (100.70 to 101.70): VU039513.D (-240) (-)

Ion 103.00 (102.70 to 103.70): VU039513.D (-240) (-)





#10

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

Concen: 4.935 ug/L

RT: 2.59 min Scan# 390

Delta R.T. -0.00 min

Lab File: VU039536.D

Acq: 16 Jul 2020 19:56

Instrument :

MSVOA_U

ClientSampled :

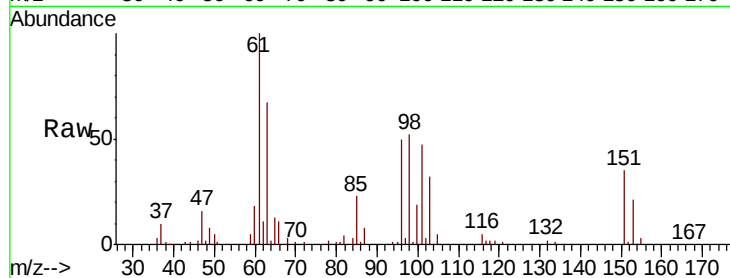
Tot Ion:101 Resp: 27839

Ion Ratio Lower Upper

101 100

85 47.8 38.9 58.3

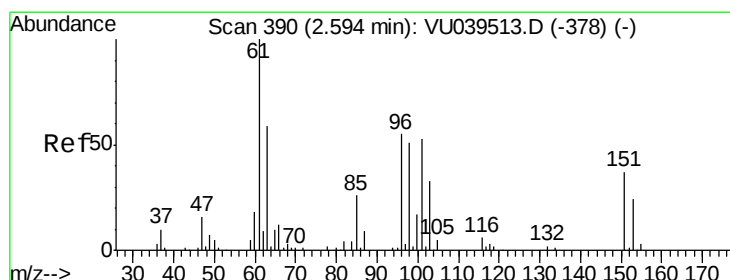
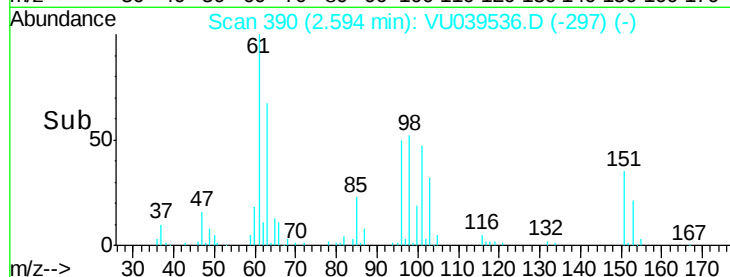
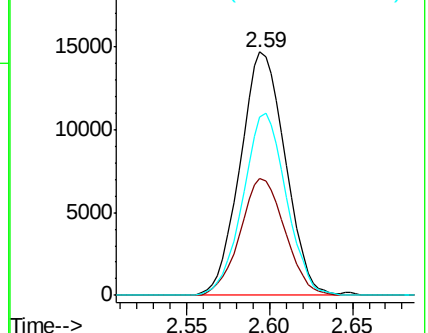
151 72.0 57.0 85.4



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: 4.424 ug/L

RT: 2.59 min Scan# 390

Delta R.T. -0.00 min

Lab File: VU039536.D

Acq: 16 Jul 2020 19:56

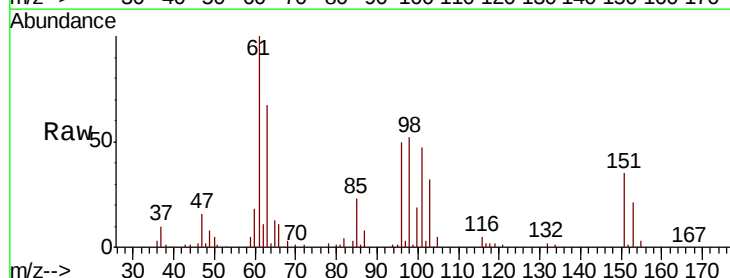
Tgt Ion: 96 Resp: 25542

Ion Ratio Lower Upper

96 100

61 200.9 125.4 232.8

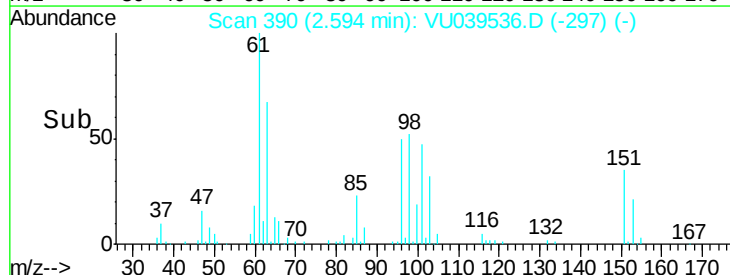
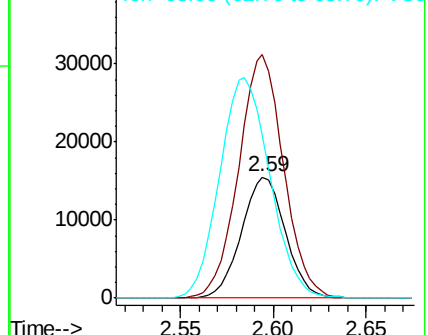
63 134.0 92.7 172.3

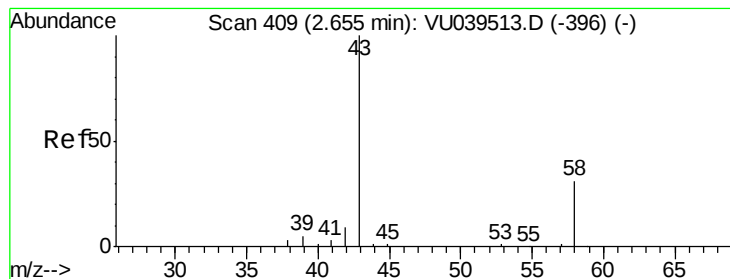


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 41.416 ug/L

RT: 2.66 min Scan# 409

Delta R.T. -0.00 min

Lab File: VU039536.D

Acq: 16 Jul 2020 19:56

Instrument :

MSVOA_U

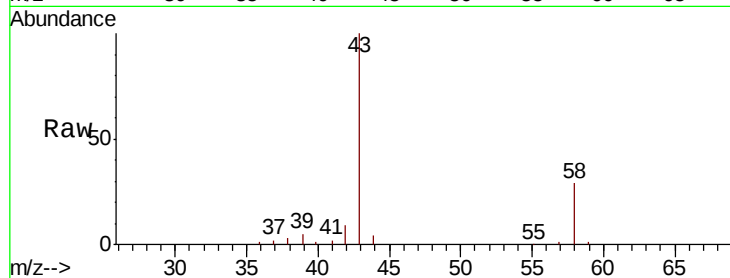
ClientSampleId :

Tot Ion: 43 Resp: 57554

Ion Ratio Lower Upper

43 100

58 30.4 0.0 62.8



Abundance Ion 43.05 (42.75 to 43.75): VU039513.D (-396) (-)

Ion 58.05 (57.75 to 58.75): VU039513.D (-396) (-)

2.66

25000

20000

15000

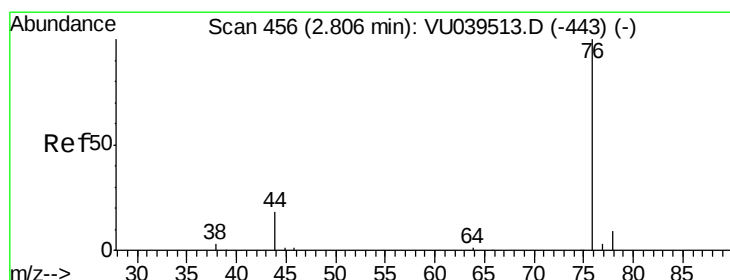
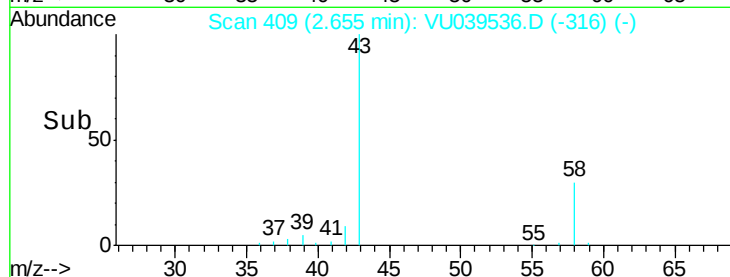
10000

5000

0

Time-->

2.60 2.70 2.80



#14

Carbon disulfide

Concen: 3.924 ug/L

RT: 2.81 min Scan# 457

Delta R.T. 0.00 min

Lab File: VU039536.D

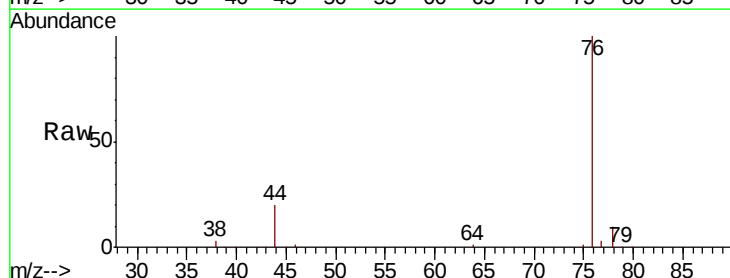
Acq: 16 Jul 2020 19:56

Tgt Ion: 76 Resp: 79817

Ion Ratio Lower Upper

76 100

78 9.6 7.0 10.4



Abundance Ion 76.05 (75.75 to 76.75): VU039513.D (-443) (-)

Ion 78.00 (77.70 to 78.70): VU039513.D (-443) (-)

2.81

50000

40000

30000

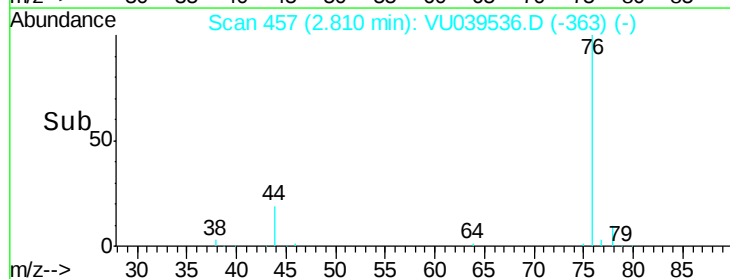
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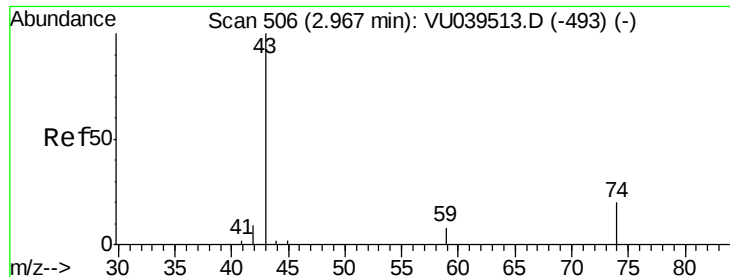
10000

0

Time-->

2.75 2.80 2.85 2.90





#15

Methyl Acetate

Concen: 4.240 ug/L

RT: 2.97 min Scan# 507

Delta R.T. 0.00 min

Lab File: VU039536.D

Acq: 16 Jul 2020 19:56

Instrument :

MSVOA_U

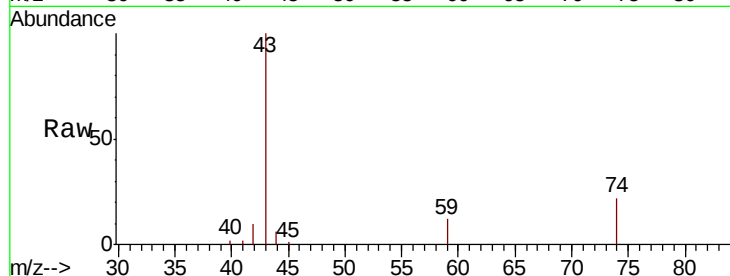
ClientSampled :

Tot Ion: 43 Resp: 15563

Ion Ratio Lower Upper

43 100

74 21.1 18.7 28.1



Abundance Ion 43.05 (42.75 to 43.75): VU039513.D (-493) (-)

Ion 74.05 (73.75 to 74.75): VU039513.D (-493) (-)

2.97

8000

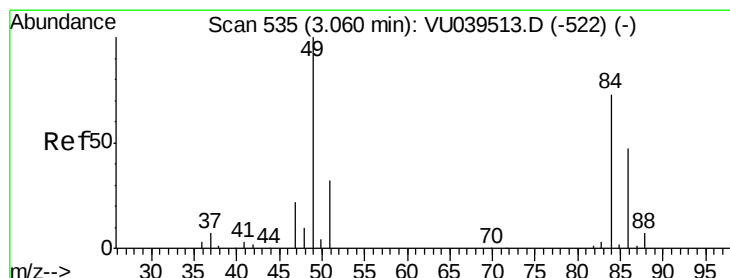
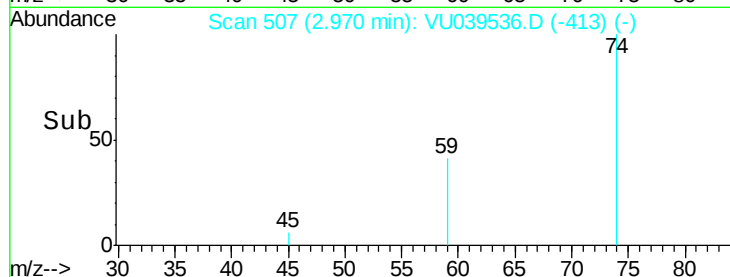
6000

4000

2000

0

Time-->



#16

Methylene chloride

Concen: 4.502 ug/L

RT: 3.06 min Scan# 536

Delta R.T. 0.00 min

Lab File: VU039536.D

Acq: 16 Jul 2020 19:56

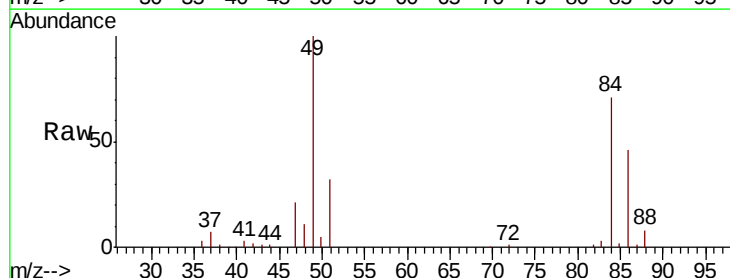
Tgt Ion: 84 Resp: 32694

Ion Ratio Lower Upper

84 100

86 64.3 43.5 80.9

49 141.3 91.1 169.1



Abundance Ion 84.05 (83.75 to 84.75): VU039513.D (-522) (-)

Ion 86.00 (85.70 to 86.70): VU039513.D (-522) (-)

Ion 49.10 (48.80 to 49.80): VU039513.D (-522) (-)

30000

25000

20000

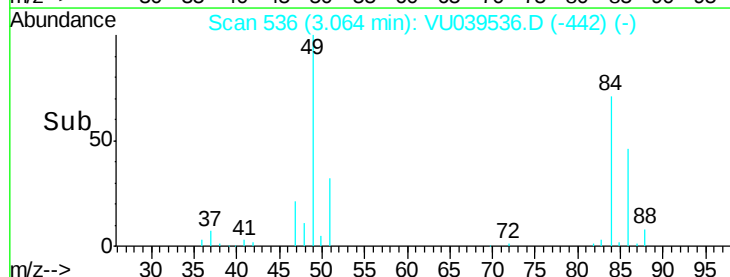
15000

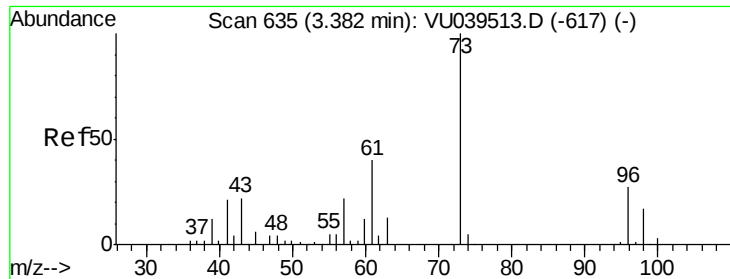
10000

5000

0

Time-->

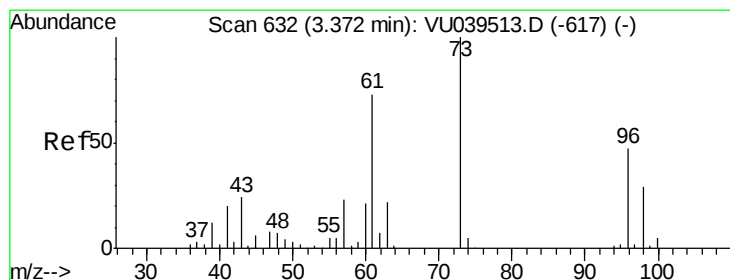
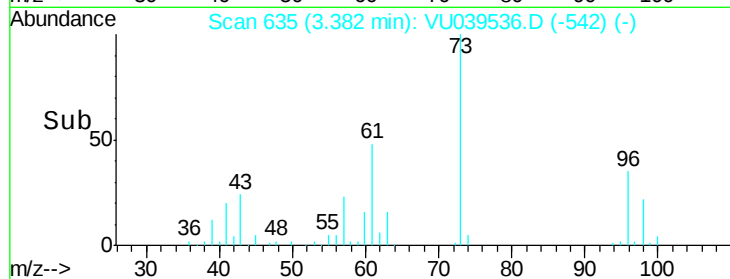
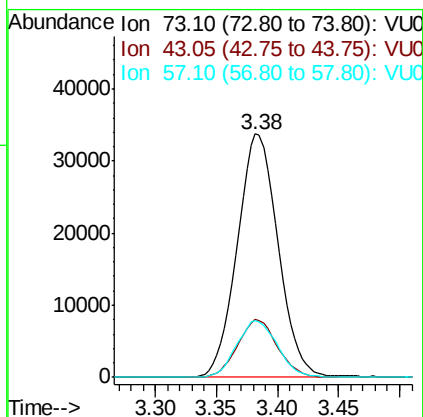
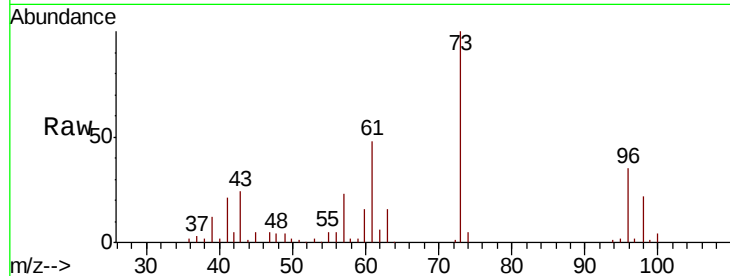




#17
Methvl tert-butvl Ether
Concen: 4.301 ug/L
RT: 3.38 min Scan# 635
Delta R.T. -0.00 min
Lab File: VU039536.D
Acq: 16 Jul 2020 19:56

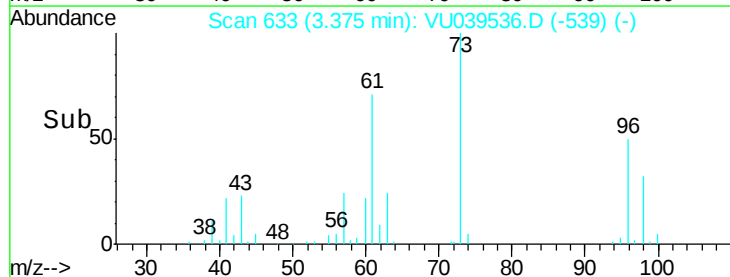
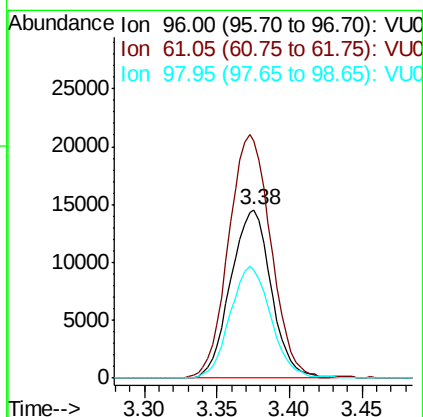
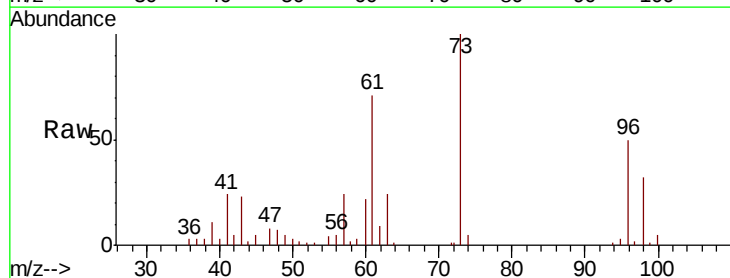
Instrument :
MSVOA_U
ClientSampleId :

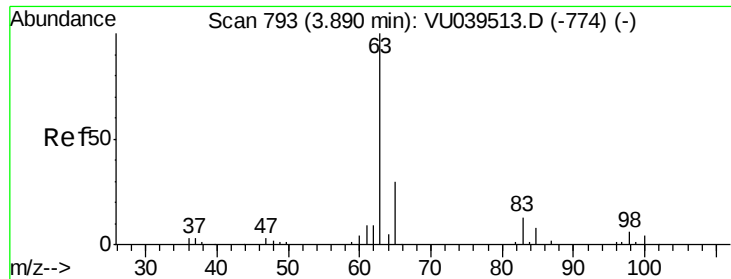
Tot Ion: 73 Resp: 78240
Ion Ratio Lower Upper
73 100
43 23.1 18.6 28.0
57 23.3 17.9 26.9



#18
trans-1,2-Dichloroethene
Concen: 4.433 ug/L
RT: 3.38 min Scan# 633
Delta R.T. 0.00 min
Lab File: VU039536.D
Acq: 16 Jul 2020 19:56

Tgt Ion: 96 Resp: 28335
Ion Ratio Lower Upper
96 100
61 140.6 102.1 189.5
98 64.2 42.5 78.9

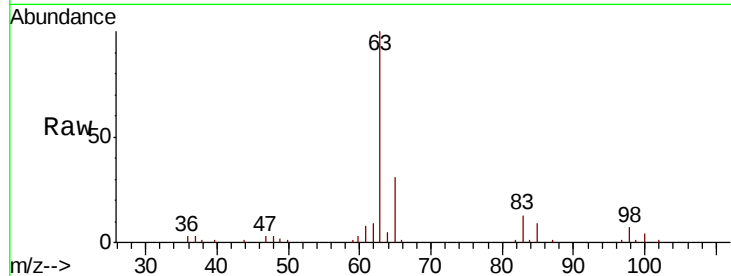




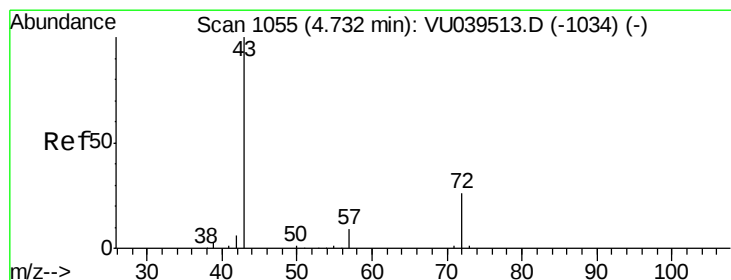
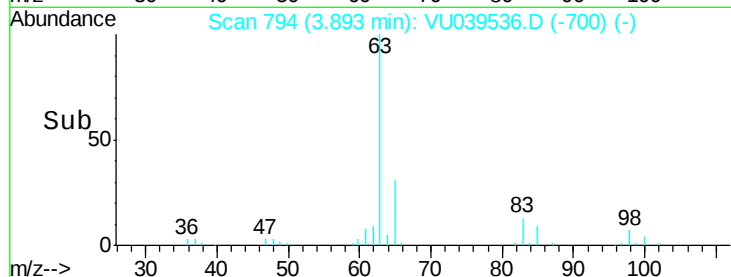
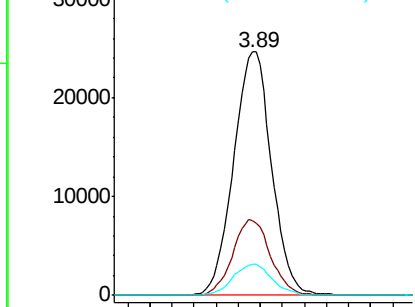
#19
 1,1-Dichloroethane
 Concen: 4.698 ug/L
 RT: 3.89 min Scan# 794
 Delta R.T. 0.00 min
 Lab File: VU039536.D
 Acq: 16 Jul 2020 19:56

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 63 Resp: 58756
 Ion Ratio Lower Upper
 63 100
 65 30.7 23.0 42.6
 83 13.0 9.6 17.8

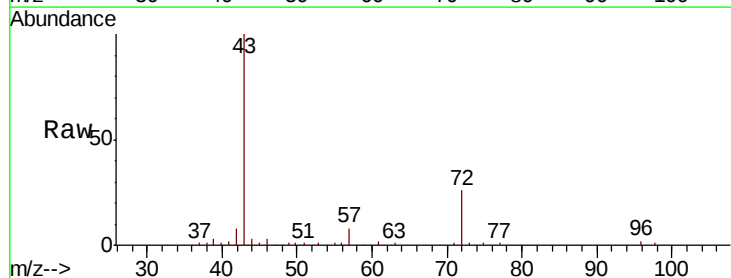


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

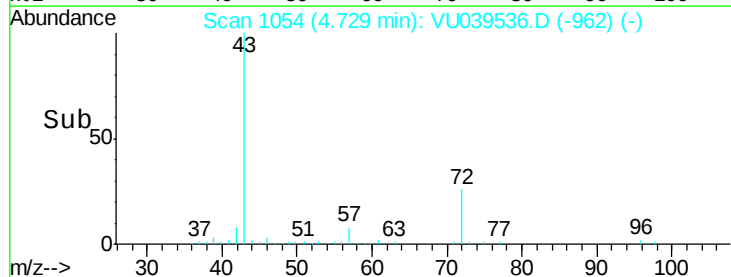
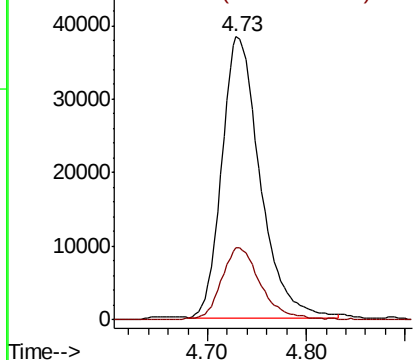


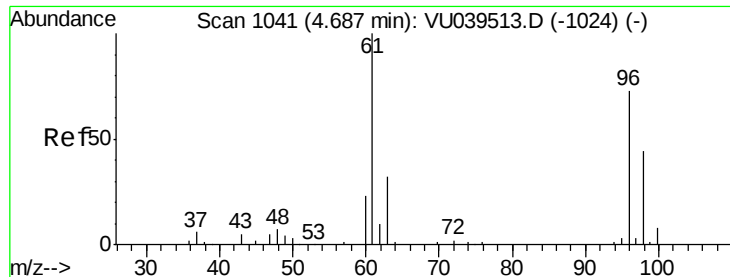
#21
 2-Butanone
 Concen: 41.601 ug/L
 RT: 4.73 min Scan# 1054
 Delta R.T. -0.00 min
 Lab File: VU039536.D
 Acq: 16 Jul 2020 19:56

Tgt Ion: 43 Resp: 103186
 Ion Ratio Lower Upper
 43 100
 72 26.6 13.2 39.5



Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 72.10 (71.80 to 72.80): VU0





#22

cis-1,2-Dichloroethene

Concen: 4.544 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. -0.00 min

Lab File: VU039536.D

Acq: 16 Jul 2020 19:56

Instrument :
MSVOA_U
ClientSampled :

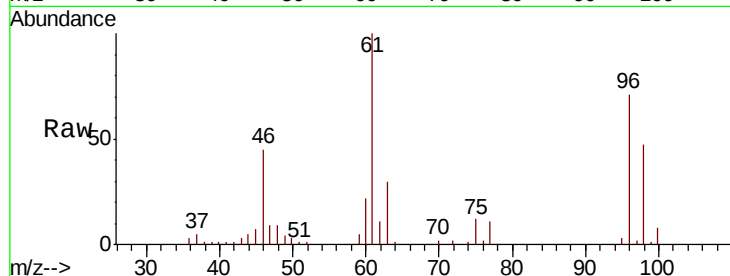
Tot Ion: 96 Resp: 32565

Ion Ratio Lower Upper

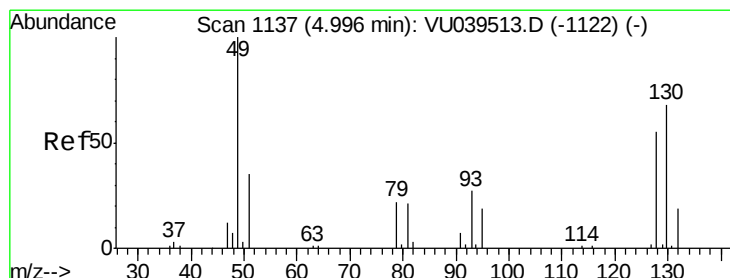
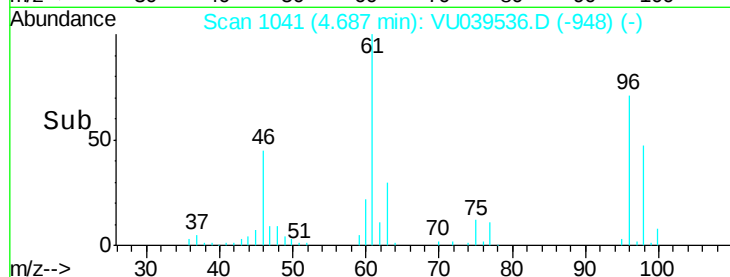
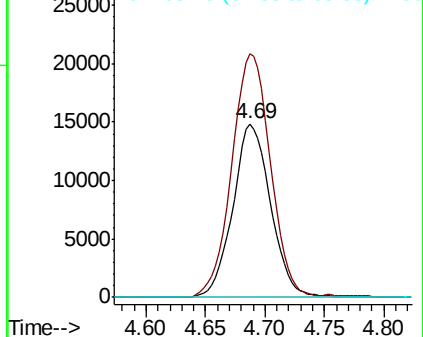
96 100

61 140.5 92.8 172.4

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



#23

Bromochloromethane

Concen: 4.559 ug/L

RT: 5.00 min Scan# 1137

Delta R.T. -0.00 min

Lab File: VU039536.D

Acq: 16 Jul 2020 19:56

Tgt Ion: 128 Resp: 14845

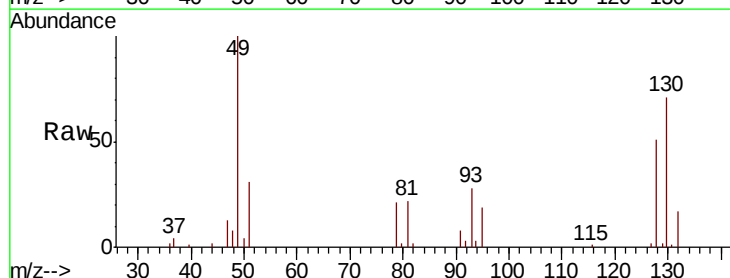
Ion Ratio Lower Upper

128 100

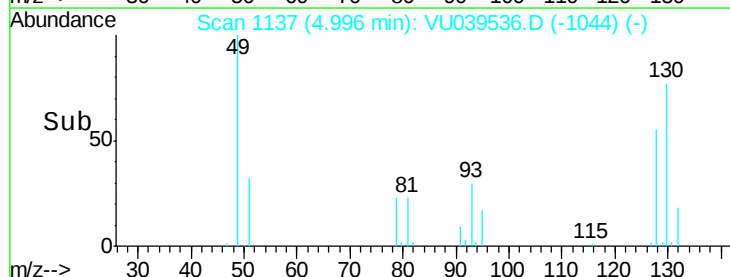
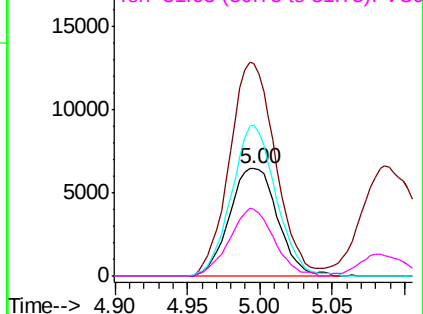
49 197.5 128.5 238.7

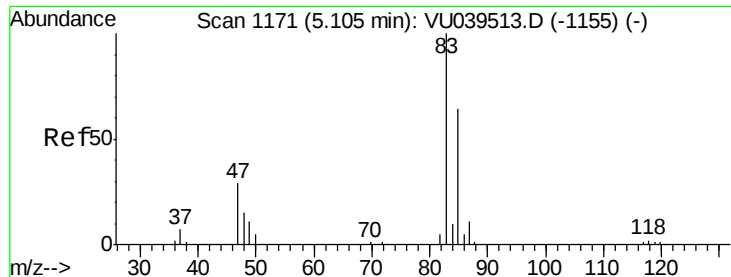
130 140.9 91.5 169.9

51 62.1 47.0 70.6



Abundance Ion 127.90 (127.60 to 128.60): V
Ion 49.10 (48.80 to 49.80): VU0
Ion 129.95 (129.65 to 130.65): V
Ion 51.05 (50.75 to 51.75): VU0

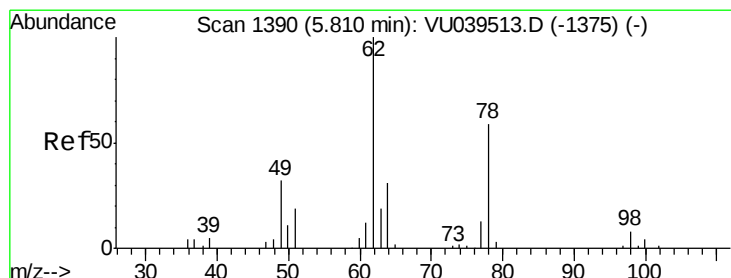
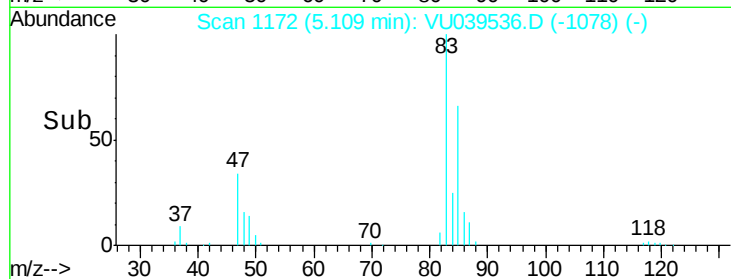
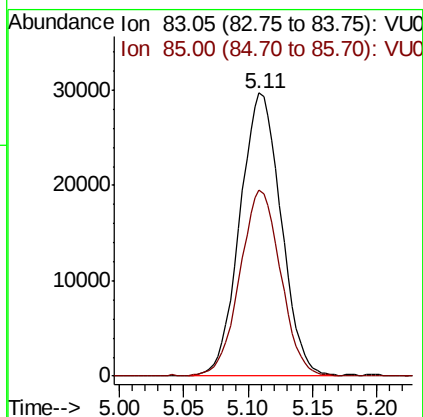
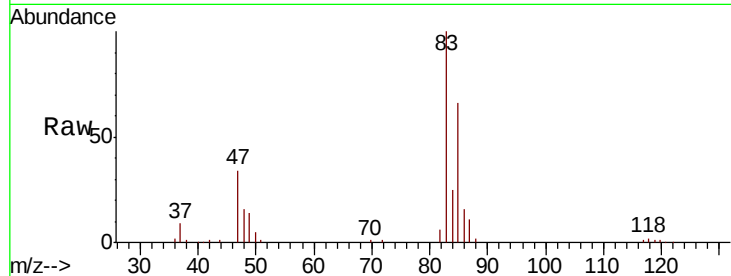




#25
Chloroform
Concen: 5.230 ug/L
RT: 5.11 min Scan# 1172
Delta R.T. 0.00 min
Lab File: VU039536.D
Acq: 16 Jul 2020 19:56

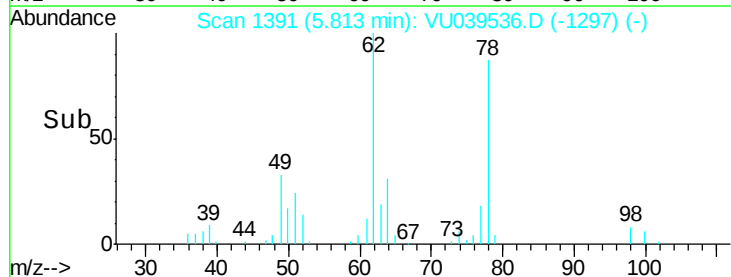
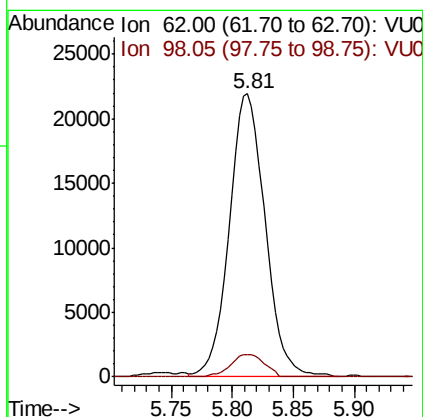
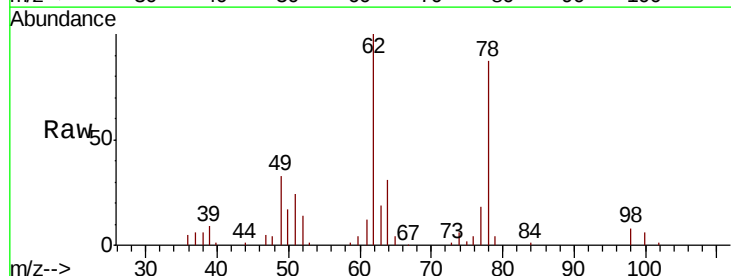
Instrument :
MSVOA_U
ClientSampleId :

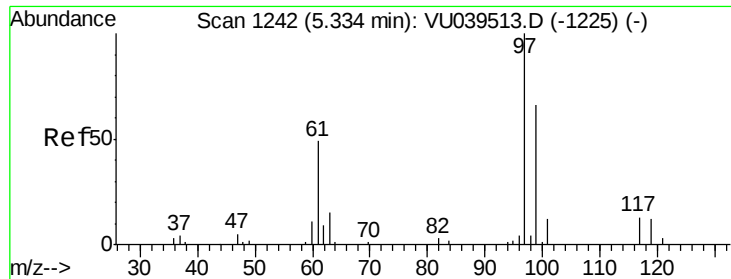
Tot Ion: 83 Resp: 66050
Ion Ratio Lower Upper
83 100
85 65.5 44.9 83.5



#27
1,2-Dichloroethane
Concen: 4.914 ug/L
RT: 5.81 min Scan# 1391
Delta R.T. 0.00 min
Lab File: VU039536.D
Acq: 16 Jul 2020 19:56

Tgt Ion: 62 Resp: 44898
Ion Ratio Lower Upper
62 100
98 7.9 6.3 9.5

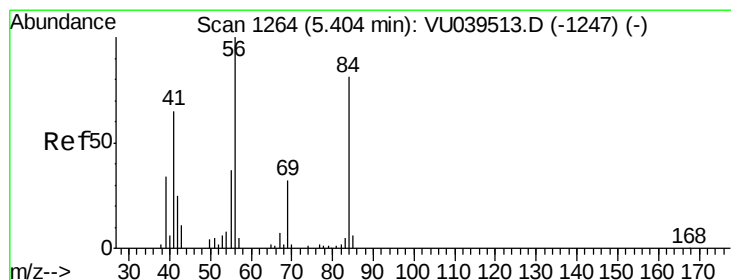
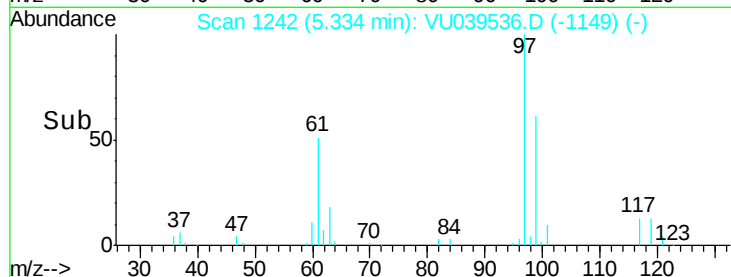
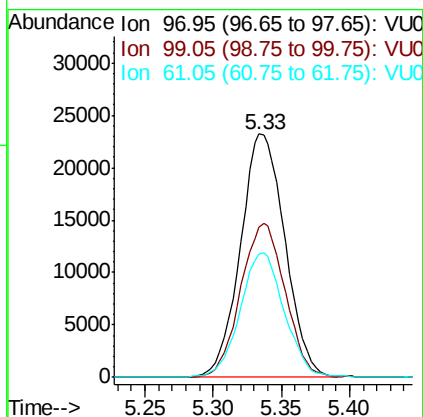
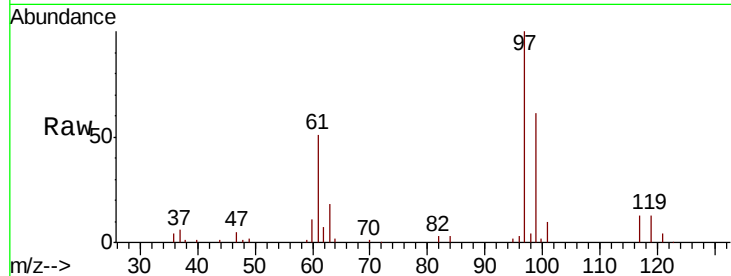




#29
 1,1,1-Trichloroethane
 Concen: 4.607 ug/L
 RT: 5.33 min Scan# 1242
 Delta R.T. -0.00 min
 Lab File: VU039536.D
 Acq: 16 Jul 2020 19:56

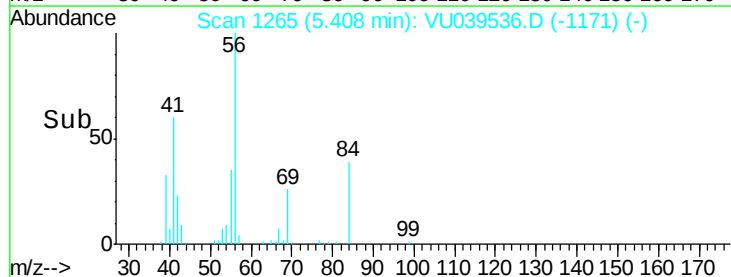
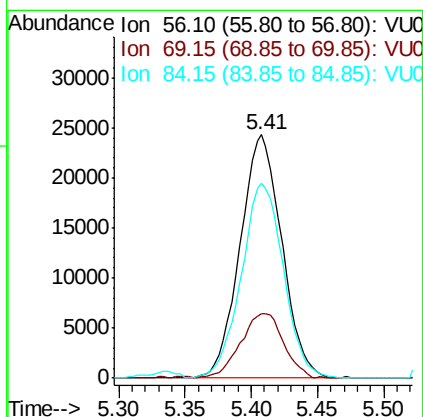
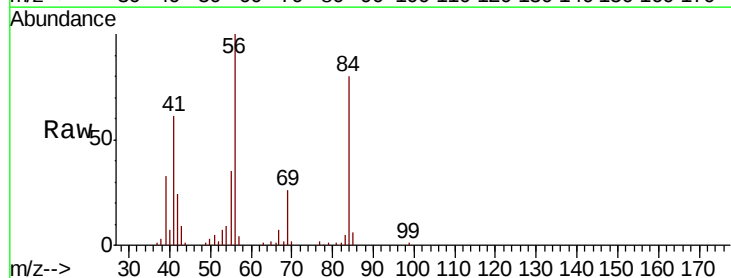
Instrument :
 MSVOA_U
 ClientSampleId :

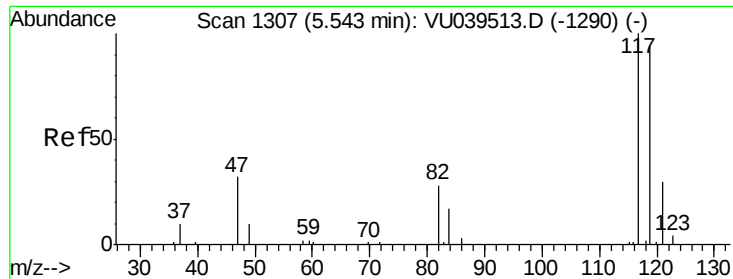
Tot Ion: 97 Resp: 52633
 Ion Ratio Lower Upper
 97 100
 99 63.0 52.6 79.0
 61 50.7 37.9 56.9



#30
 Cyclohexane
 Concen: 4.414 ug/L
 RT: 5.41 min Scan# 1265
 Delta R.T. 0.00 min
 Lab File: VU039536.D
 Acq: 16 Jul 2020 19:56

Tgt Ion: 56 Resp: 53083
 Ion Ratio Lower Upper
 56 100
 69 27.4 24.1 36.1
 84 81.2 67.0 100.6





#31

Carbon tetrachloride

Concen: 4.542 ug/L

RT: 5.54 min Scan# 1307

Delta R.T. -0.00 min

Lab File: VU039536.D

Acq: 16 Jul 2020 19:56

Instrument :

MSVOA_U

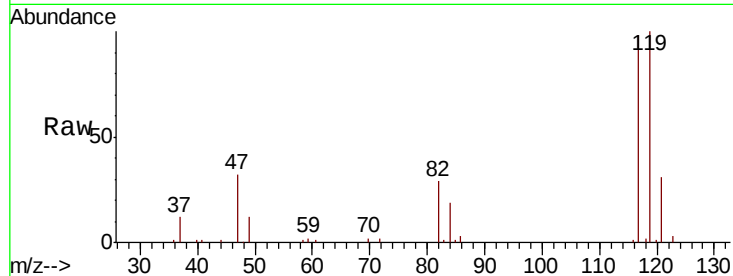
ClientSampleId :

Tot Ion:117 Resp: 44267

Ion Ratio Lower Upper

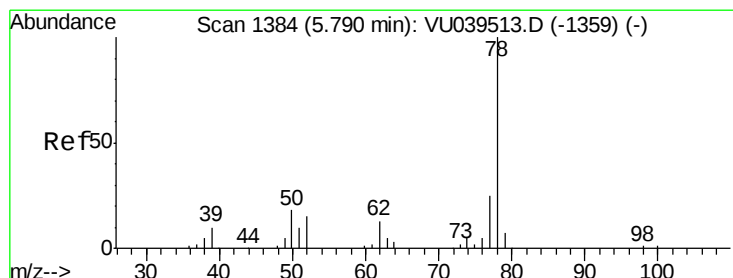
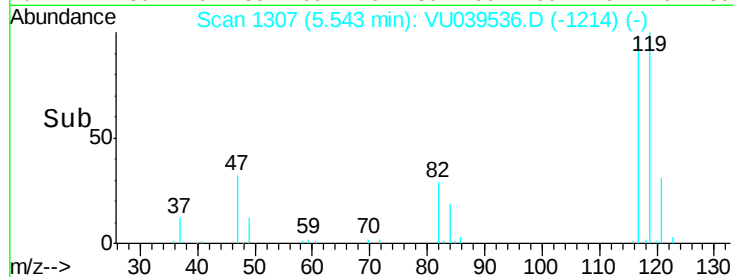
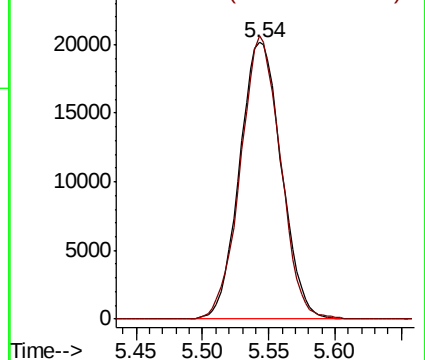
117 100

119 97.8 77.4 116.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.466 ug/L

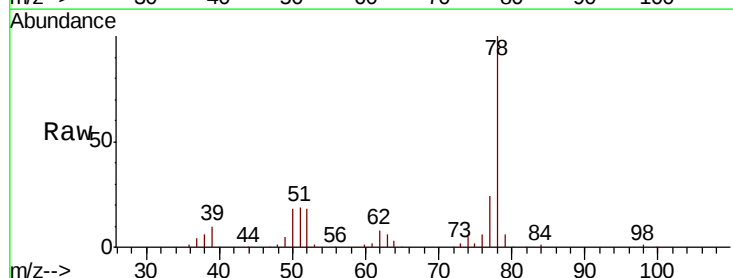
RT: 5.79 min Scan# 1384

Delta R.T. -0.00 min

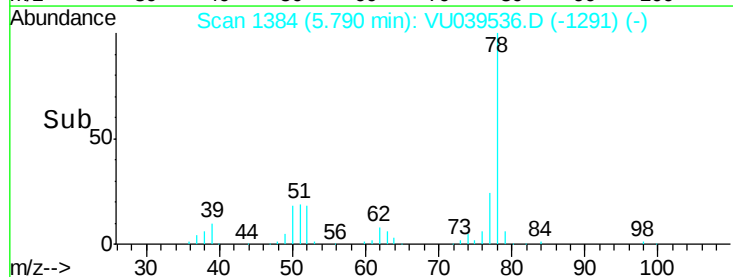
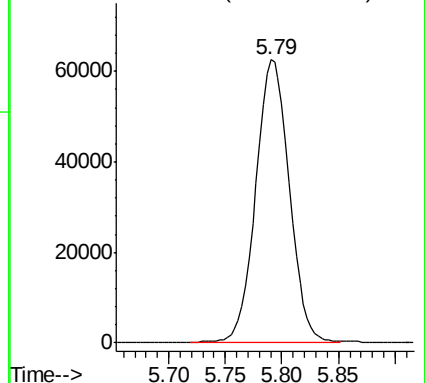
Lab File: VU039536.D

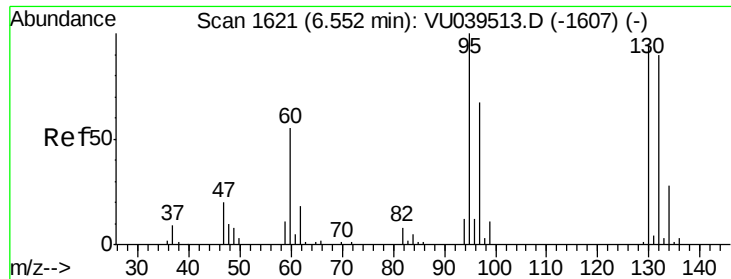
Acq: 16 Jul 2020 19:56

Tgt Ion: 78 Resp: 129501



Abundance Ion 78.10 (77.80 to 78.80): VU0

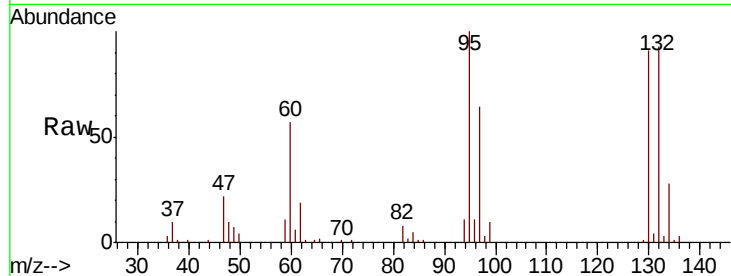




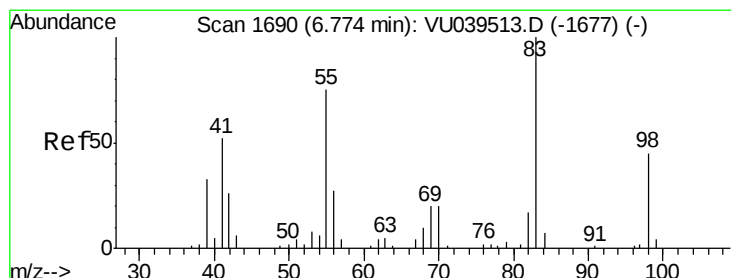
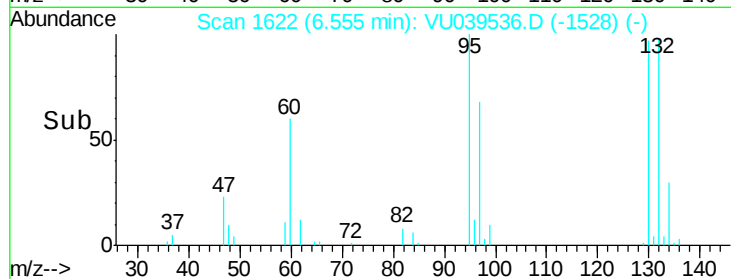
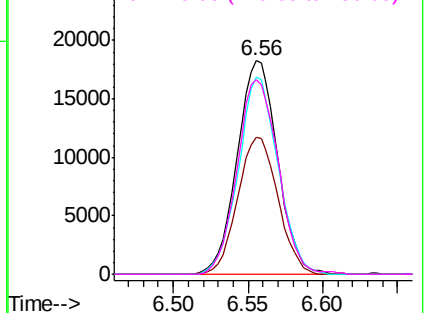
#34
 Trichloroethene
 Concen: 4.569 ug/L
 RT: 6.56 min Scan# 1622
 Delta R.T. 0.00 min
 Lab File: VU039536.D
 Acq: 16 Jul 2020 19:56

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 95 Resp: 34249
 Ion Ratio Lower Upper
 95 100
 97 64.0 46.3 85.9
 132 92.5 64.0 118.8
 130 91.2 64.3 119.5

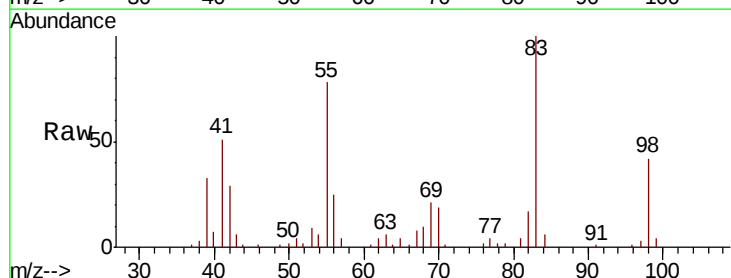


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

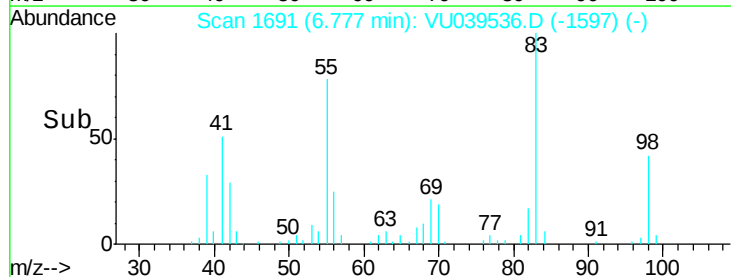
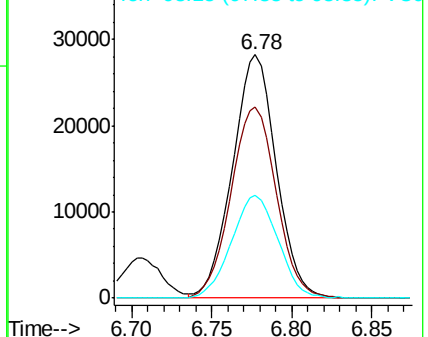


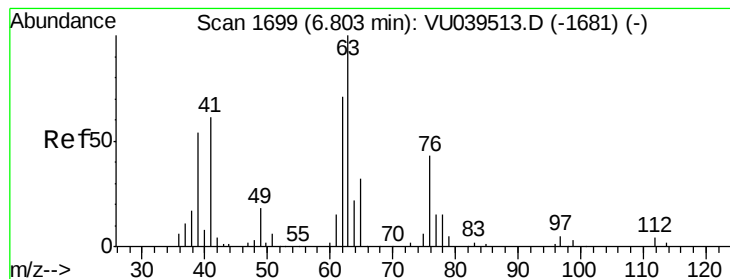
#35
 Methylcyclohexane
 Concen: 4.388 ug/L
 RT: 6.78 min Scan# 1691
 Delta R.T. 0.00 min
 Lab File: VU039536.D
 Acq: 16 Jul 2020 19:56

Tgt Ion: 83 Resp: 52695
 Ion Ratio Lower Upper
 83 100
 55 81.5 62.1 93.1
 98 44.7 35.9 53.9



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





#37

1,2-Dichloropropane

Concen: 4.536 ug/L

RT: 6.81 min Scan# 1700

Delta R.T. 0.00 min

Lab File: VU039536.D

Acq: 16 Jul 2020 19:56

Instrument :

MSVOA_U

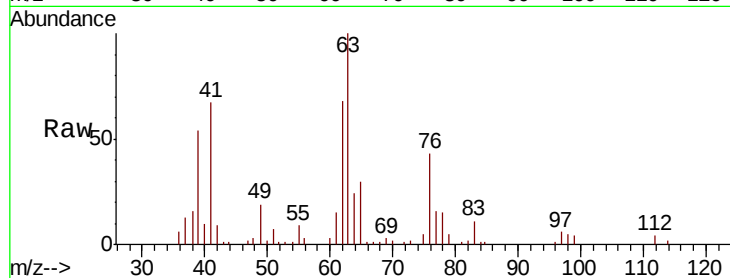
ClientSampleId :

Tot Ion: 63 Resp: 35852

Ion Ratio Lower Upper

63 100

112 3.4 2.5 3.7



Abundance Ion 63.10 (62.80 to 63.80): VU039536.D (-1606) (-)

Ion 112.10 (111.80 to 112.80): VU039536.D (-1606) (-)

20000

15000

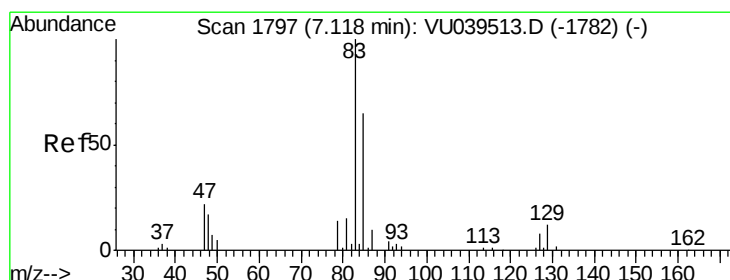
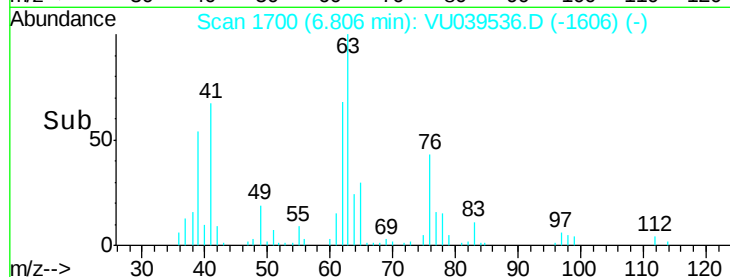
10000

5000

0

6.70 6.75 6.80 6.85 6.90

Time-->



#38

Bromodichloromethane

Concen: 4.437 ug/L

RT: 7.12 min Scan# 1797

Delta R.T. -0.00 min

Lab File: VU039536.D

Acq: 16 Jul 2020 19:56

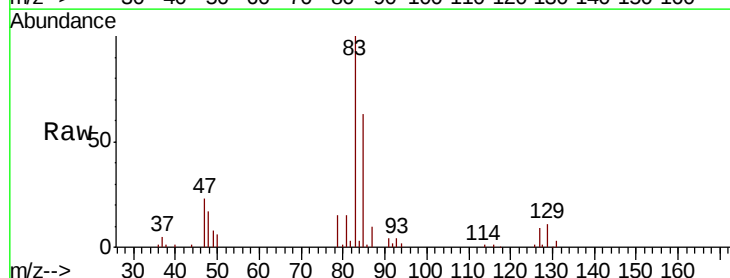
Tgt Ion: 83 Resp: 44792

Ion Ratio Lower Upper

83 100

85 62.7 44.0 81.6

127 8.7 6.2 9.4



Abundance Ion 82.95 (82.65 to 83.65): VU039536.D (-1704) (-)

Ion 85.00 (84.70 to 85.70): VU039536.D (-1704) (-)

Ion 126.90 (126.60 to 127.60): VU039536.D (-1704) (-)

30000

25000

20000

15000

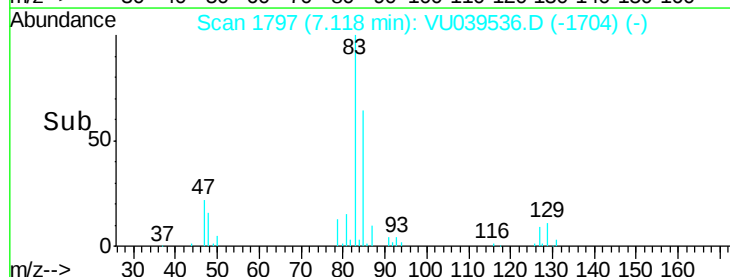
10000

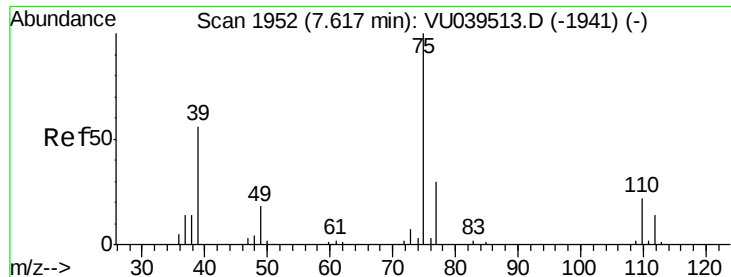
5000

0

7.05 7.10 7.15 7.20

Time-->

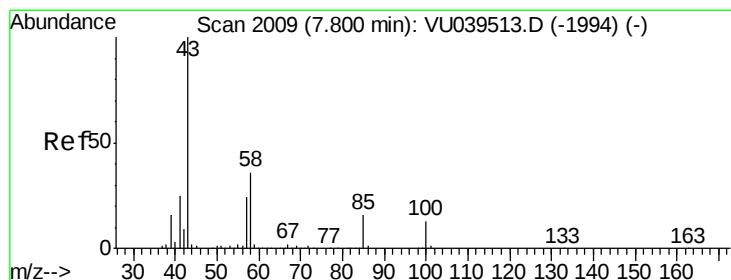
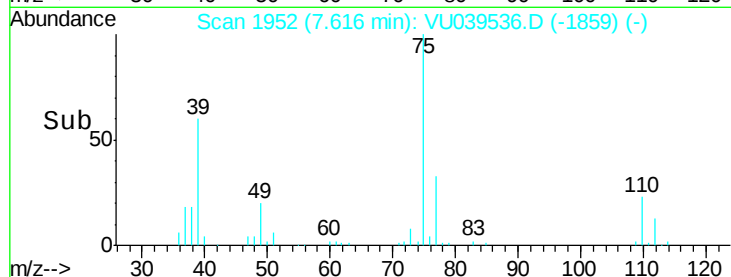
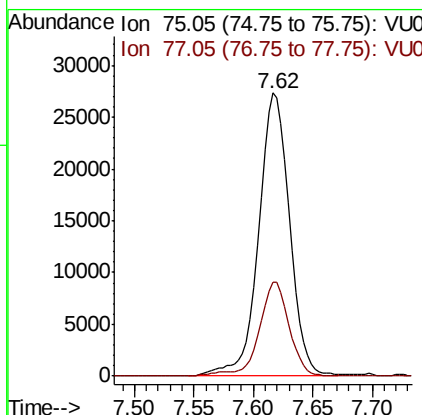
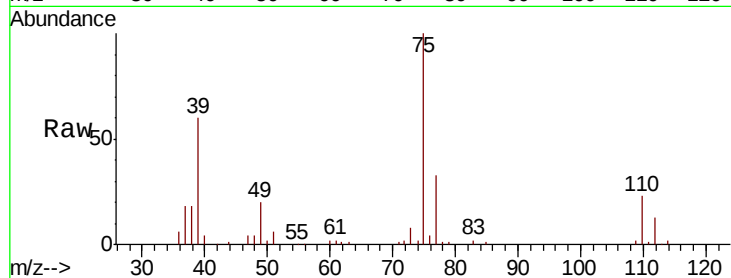




#39
 cis-1,3-Dichloropropene
 Concen: 4.126 ug/L
 RT: 7.62 min Scan# 1952
 Delta R.T. -0.00 min
 Lab File: VU039536.D
 Acq: 16 Jul 2020 19:56

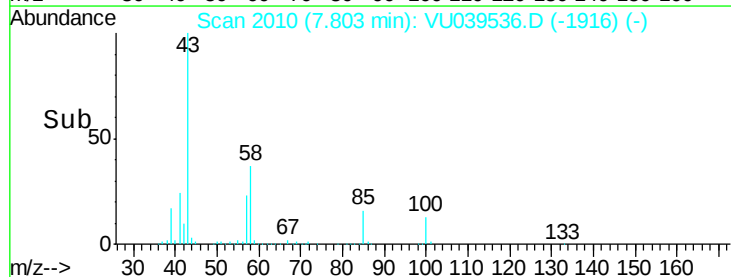
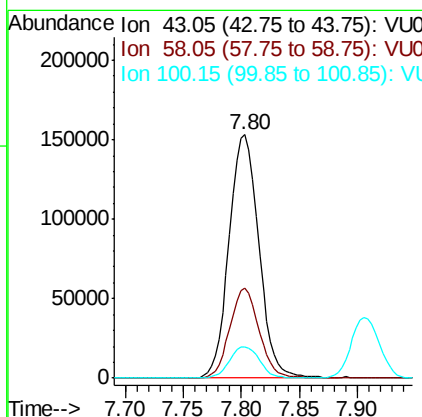
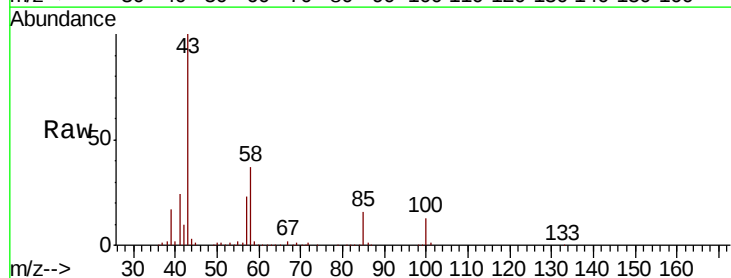
Instrument :
 MSVOA_U
 ClientSampled :

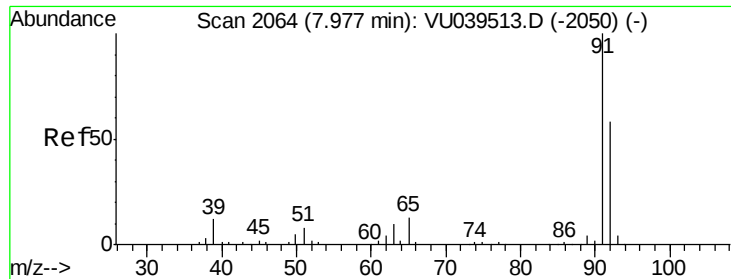
Tot Ion: 75 Resp: 49307
 Ion Ratio Lower Upper
 75 100
 77 33.2 22.3 41.3



#40
 4-Methyl-2-pentanone
 Concen: 41.485 ug/L
 RT: 7.80 min Scan# 2010
 Delta R.T. 0.00 min
 Lab File: VU039536.D
 Acq: 16 Jul 2020 19:56

Tgt Ion: 43 Resp: 273557
 Ion Ratio Lower Upper
 43 100
 58 36.3 30.5 45.7
 100 13.0 10.3 15.5





#42

Toluene

Concen: 4.578 ug/L

RT: 7.98 min Scan# 2065

Delta R.T. 0.00 min

Lab File: VU039536.D

Acq: 16 Jul 2020 19:56

Instrument :

MSVOA_U

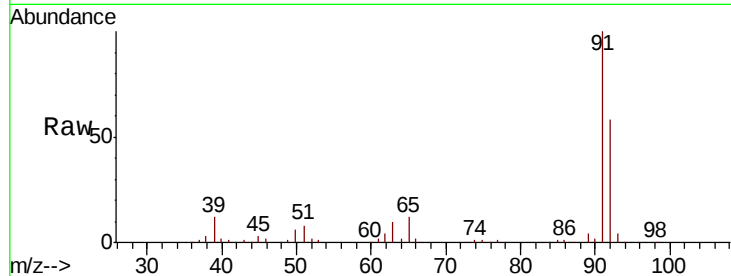
ClientSampleId :

Tot Ion: 91 Resp: 142134

Ion Ratio Lower Upper

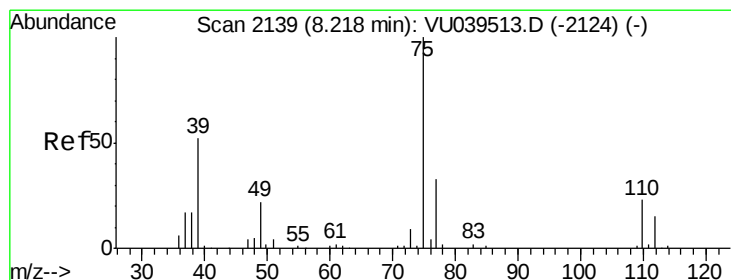
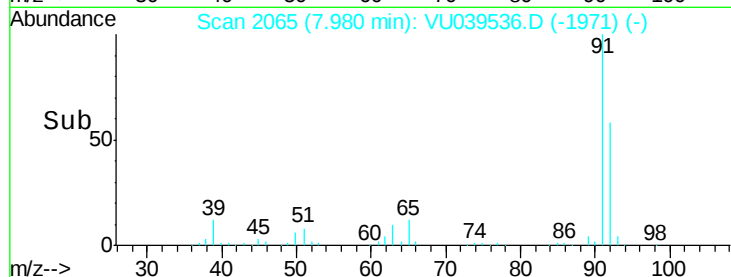
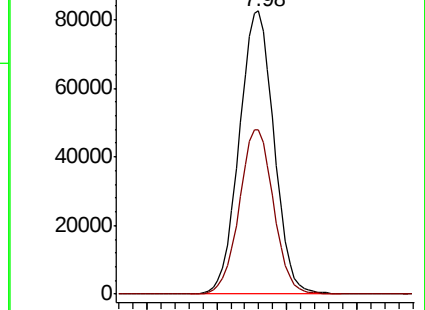
91 100

92 58.0 39.3 73.1



Abundance Ion 91.15 (90.85 to 91.85): VU039513.D (-2050) (-)

Ion 92.15 (91.85 to 92.85): VU039513.D (-2050) (-)



#44

trans-1,3-Dichloropropene

Concen: 4.220 ug/L

RT: 8.22 min Scan# 2139

Delta R.T. -0.00 min

Lab File: VU039536.D

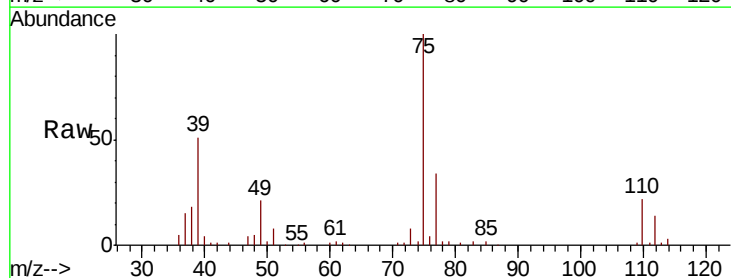
Acq: 16 Jul 2020 19:56

Tgt Ion: 75 Resp: 44736

Ion Ratio Lower Upper

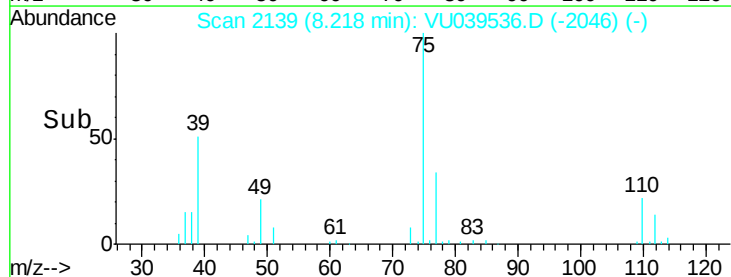
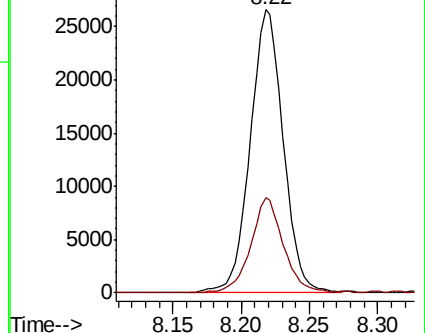
75 100

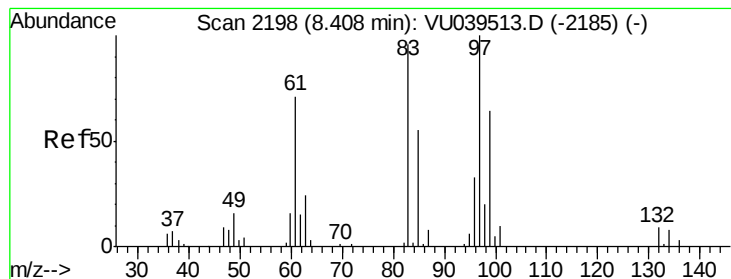
77 33.7 23.7 43.9



Abundance Ion 75.05 (74.75 to 75.75): VU039513.D (-2124) (-)

Ion 77.05 (76.75 to 77.75): VU039513.D (-2124) (-)





#45

1,1,2-Trichloroethane

Concen: 4.632 ug/L

RT: 8.41 min Scan# 2198

Delta R.T. -0.00 min

Lab File: VU039536.D

Acq: 16 Jul 2020 19:56

Instrument :

MSVOA_U

ClientSampled :

Tot Ion: 97 Resp: 26301

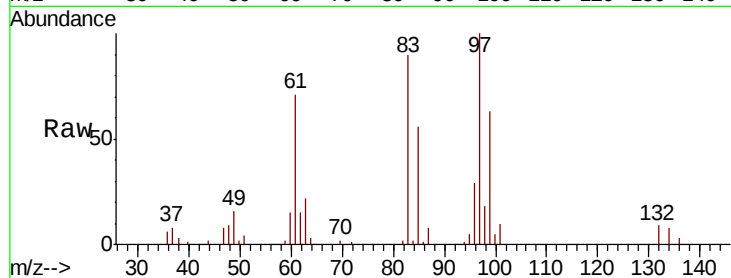
Ion Ratio Lower Upper

97 100

99 63.5 40.7 75.7

83 90.1 60.6 112.6

85 56.0 38.3 71.1

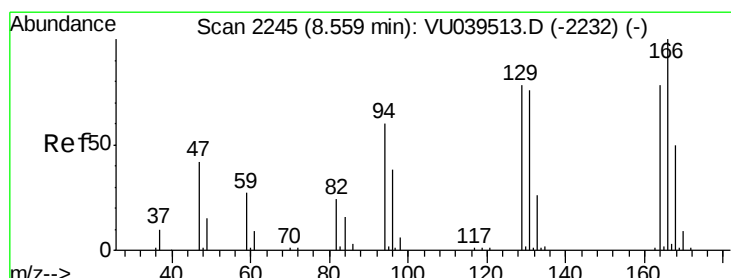
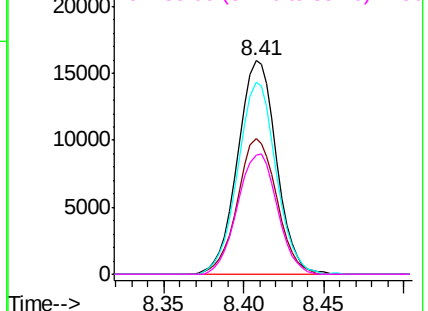
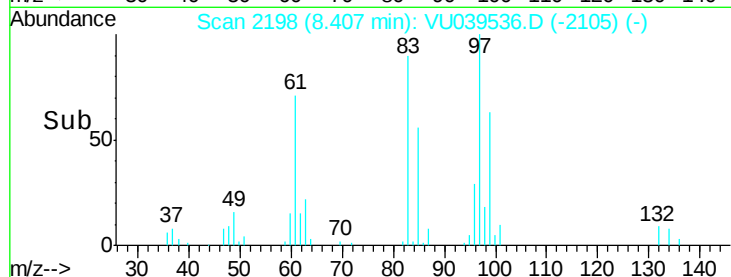


Abundance Ion 96.95 (96.65 to 97.65): VU039536.D (-2105) (-)

Ion 99.05 (98.75 to 99.75): VU039536.D (-2105) (-)

Ion 82.95 (82.65 to 83.65): VU039536.D (-2105) (-)

Ion 85.00 (84.70 to 85.70): VU039536.D (-2105) (-)



#47

Tetrachloroethene

Concen: 4.717 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.00 min

Lab File: VU039536.D

Acq: 16 Jul 2020 19:56

Tgt Ion: 164 Resp: 24594

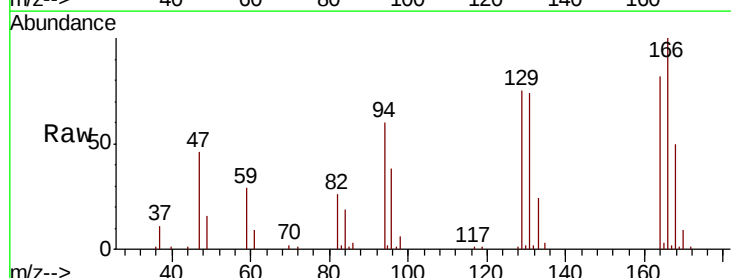
Ion Ratio Lower Upper

164 100

129 91.9 68.6 127.4

131 90.4 66.4 123.4

166 122.1 85.9 159.5

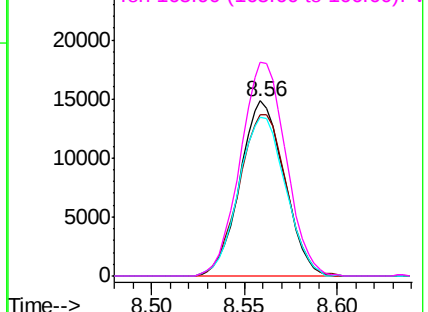
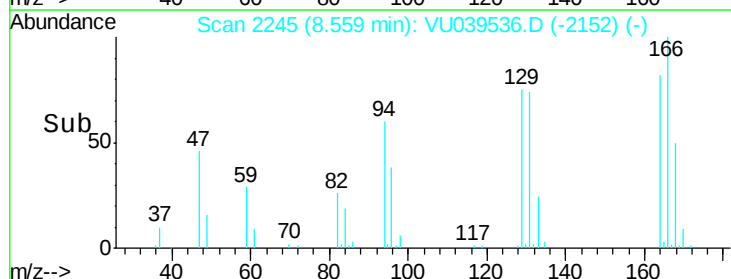


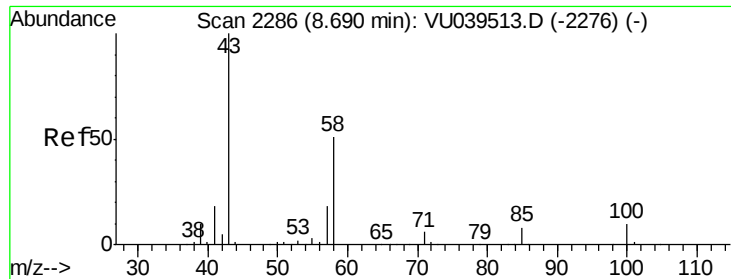
Abundance Ion 163.90 (163.60 to 164.60): VU039536.D (-2152) (-)

Ion 128.95 (128.65 to 129.65): VU039536.D (-2152) (-)

Ion 130.95 (130.65 to 131.65): VU039536.D (-2152) (-)

Ion 165.90 (165.60 to 166.60): VU039536.D (-2152) (-)

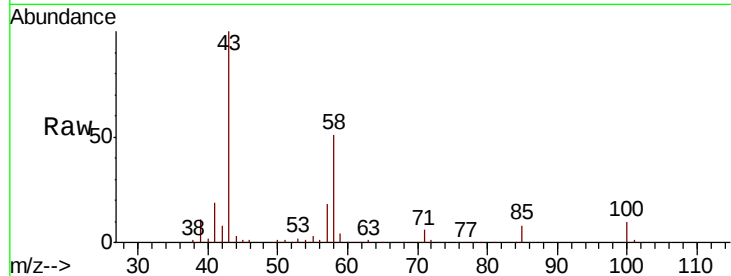




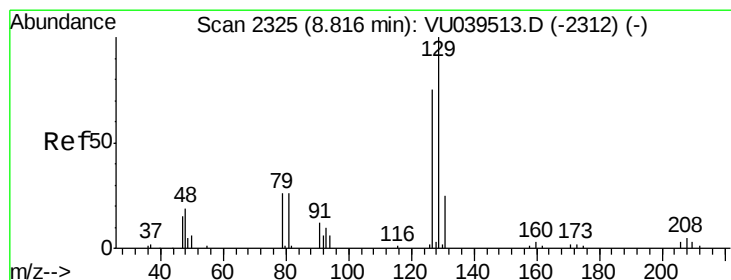
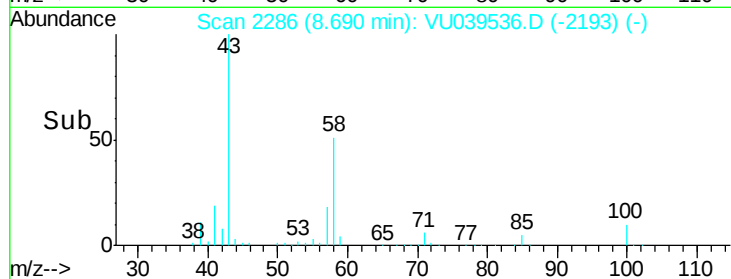
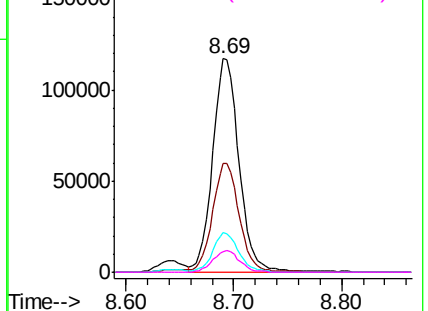
#48
2-Hexanone
Concen: 40.765 ug/L
RT: 8.69 min Scan# 2286
Delta R.T. -0.00 min
Lab File: VU039536.D
Acq: 16 Jul 2020 19:56

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 198202
Ion Ratio Lower Upper
43 100
58 51.4 42.0 63.0
57 17.8 14.0 21.0
100 10.3 8.2 12.2

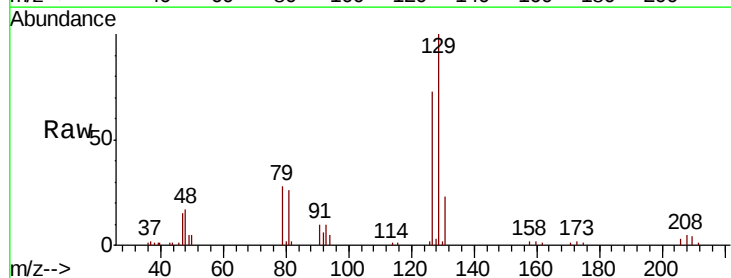


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

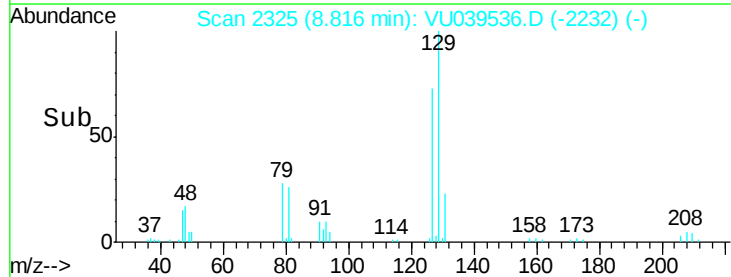
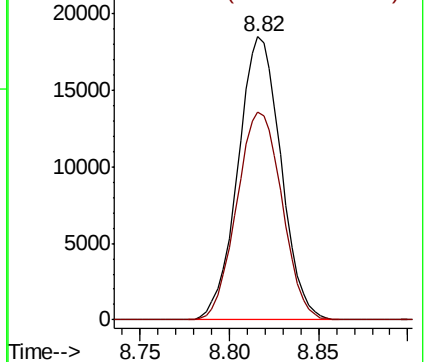


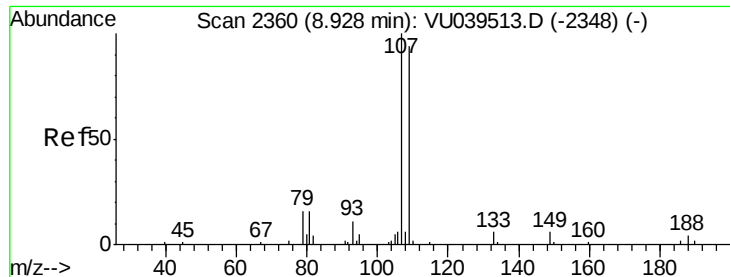
#49
Dibromochloromethane
Concen: 4.534 ug/L
RT: 8.82 min Scan# 2325
Delta R.T. -0.00 min
Lab File: VU039536.D
Acq: 16 Jul 2020 19:56

Tgt Ion: 129 Resp: 31181
Ion Ratio Lower Upper
129 100
127 73.5 55.4 102.8



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

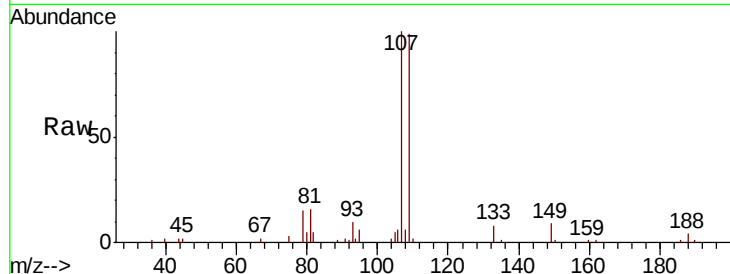




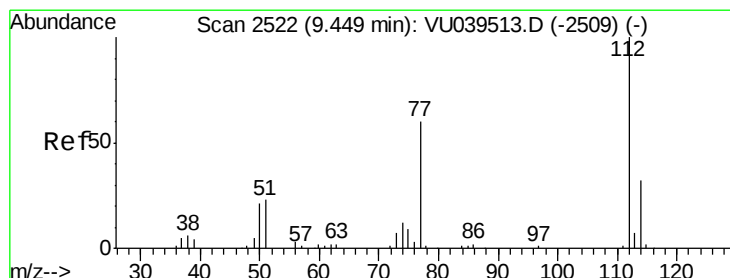
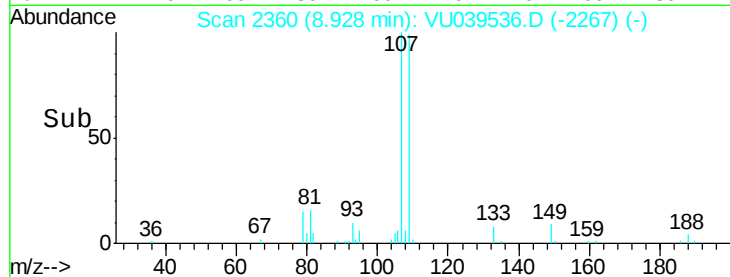
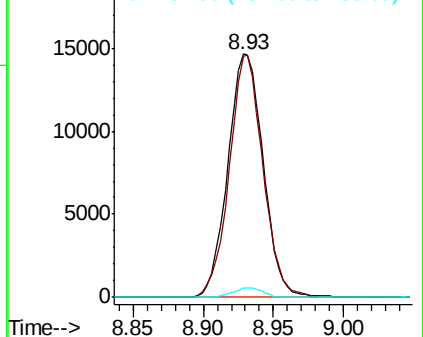
#50
 1,2-Dibromoethane
 Concen: 4.454 ug/L
 RT: 8.93 min Scan# 2360
 Delta R.T. -0.00 min
 Lab File: VU039536.D
 Acq: 16 Jul 2020 19:56

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
107	100		
109	99.2	64.0	118.8
188	3.7	2.6	3.8

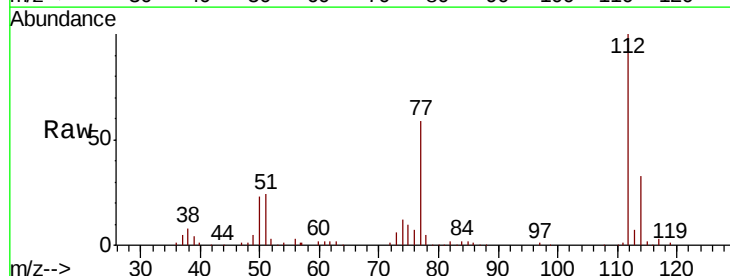


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

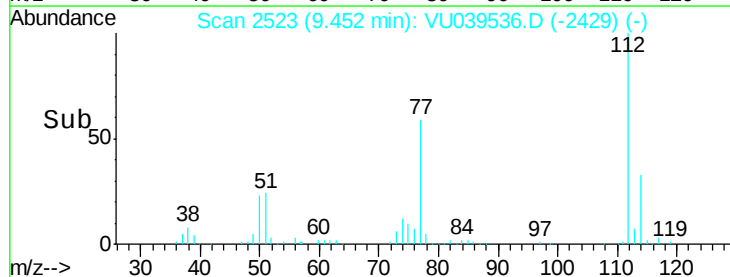
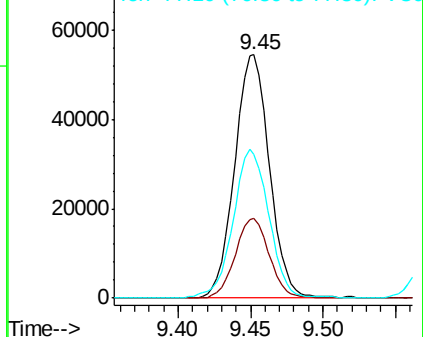


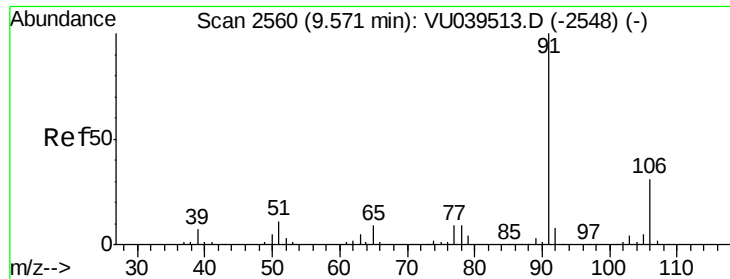
#51
 Chlorobenzene
 Concen: 4.785 ug/L
 RT: 9.45 min Scan# 2523
 Delta R.T. 0.00 min
 Lab File: VU039536.D
 Acq: 16 Jul 2020 19:56

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.6	22.1	41.1
77	58.9	49.9	74.9



Abundance Ion 112.10 (111.80 to 112.80): V
 Ion 114.05 (113.75 to 114.75): V
 Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 4.791 ug/L

RT: 9.57 min Scan# 2561

Delta R.T. 0.00 min

Lab File: VU039536.D

Acq: 16 Jul 2020 19:56

Instrument :

MSVOA_U

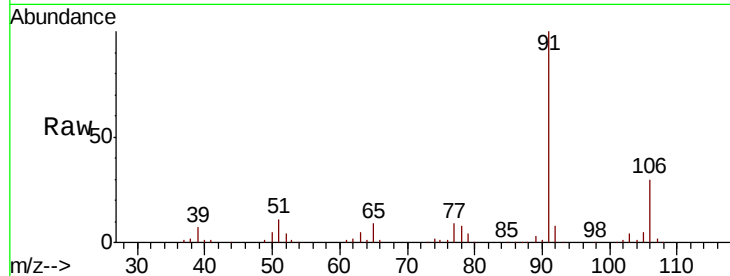
ClientSampled :

Tot Ion: 91 Resp: 164402

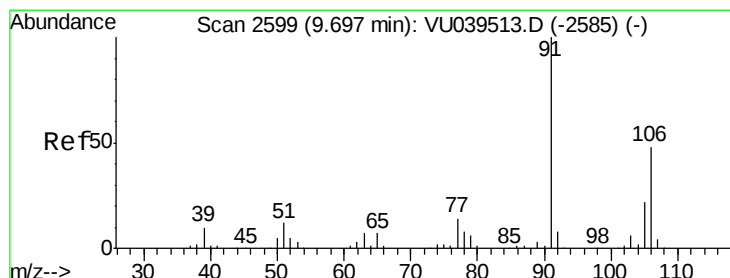
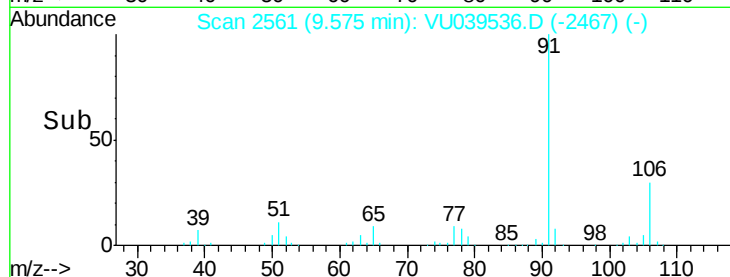
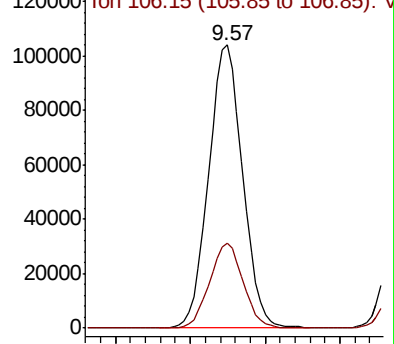
Ion Ratio Lower Upper

91 100

106 29.8 21.3 39.6



Abundance Ion 91.15 (90.85 to 91.85): VU039513.D (-2548) (-)



#53

m,p-Xylene

Concen: 4.707 ug/L

RT: 9.70 min Scan# 2599

Delta R.T. -0.00 min

Lab File: VU039536.D

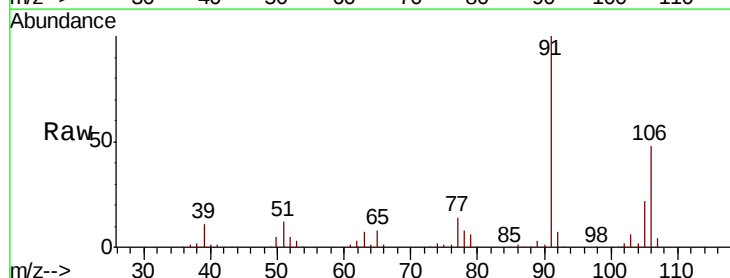
Acq: 16 Jul 2020 19:56

Tgt Ion: 106 Resp: 60863

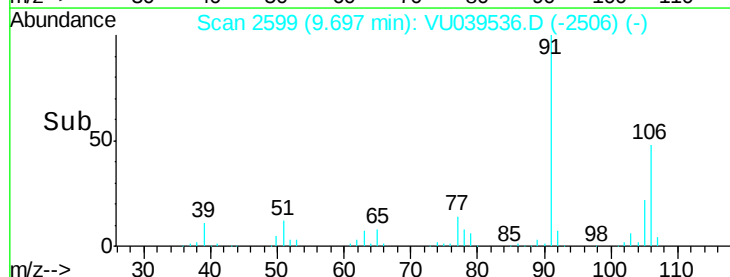
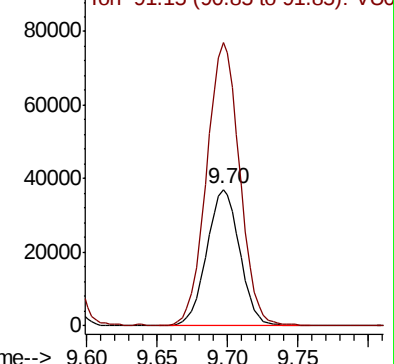
Ion Ratio Lower Upper

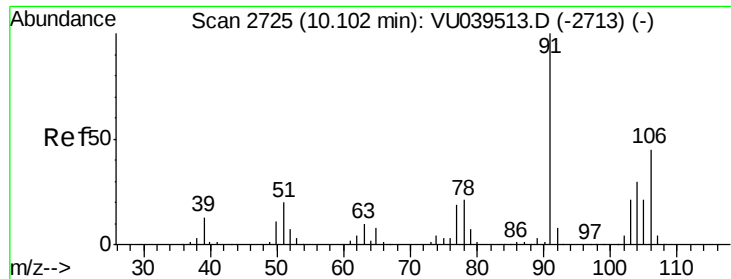
106 100

91 207.7 144.0 267.4



Abundance Ion 106.15 (105.85 to 106.85): VU039513.D (-2585) (-)





#54

o-Xylene

Concen: 4.578 ug/L

RT: 10.10 min Scan# 2725

Delta R.T. -0.00 min

Lab File: VU039536.D

Acq: 16 Jul 2020 19:56

Instrument :

MSVOA_U

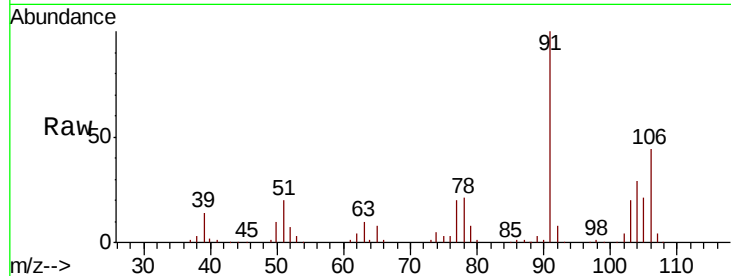
ClientSampleId :

Tot Ion:106 Resp: 57630

Ion Ratio Lower Upper

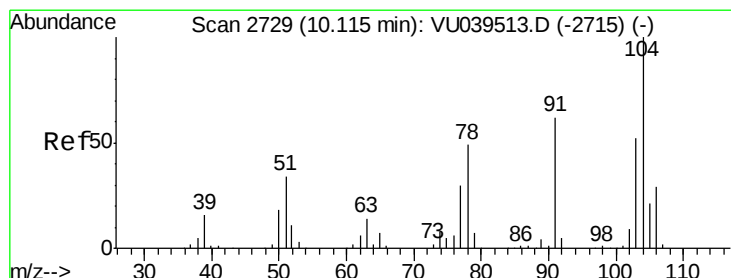
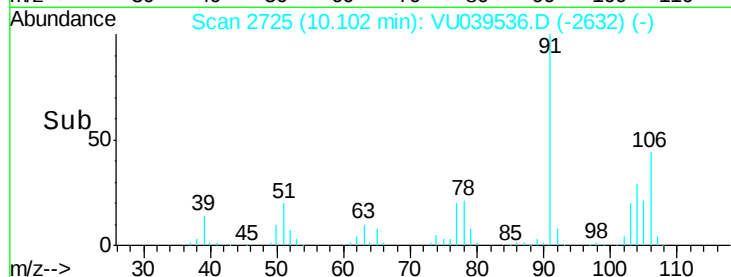
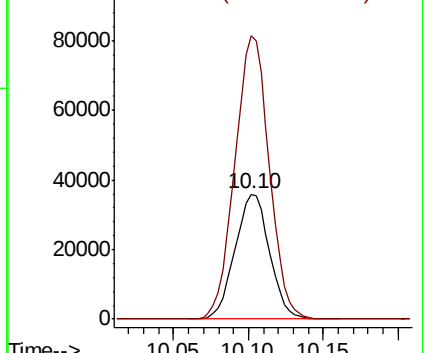
106 100

91 226.7 154.6 287.2



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 4.478 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. 0.00 min

Lab File: VU039536.D

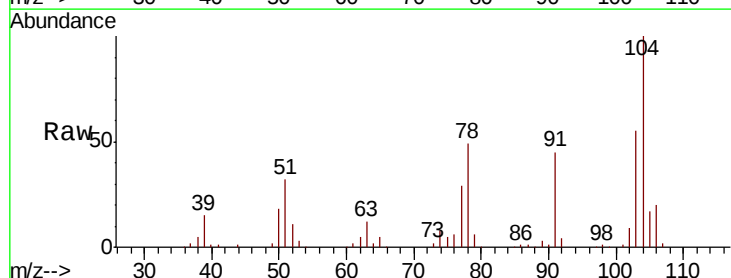
Acq: 16 Jul 2020 19:56

Tgt Ion:104 Resp: 98075

Ion Ratio Lower Upper

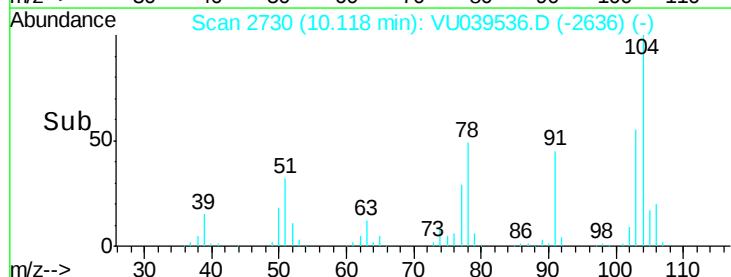
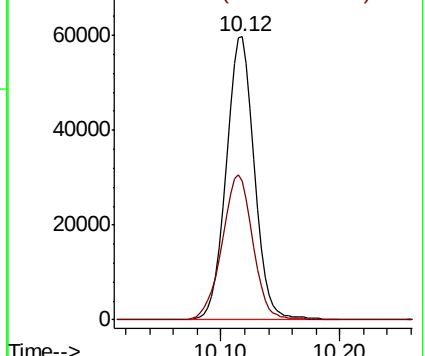
104 100

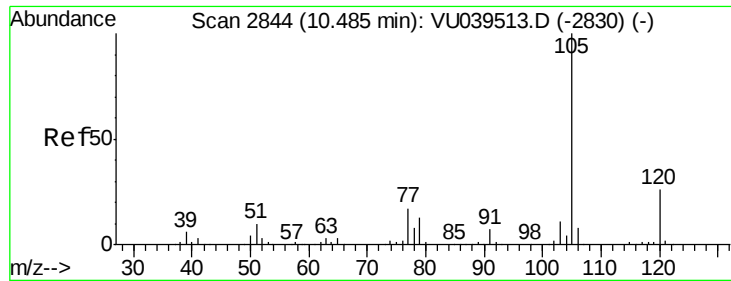
78 49.1 33.1 61.5



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 4.797 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. -0.00 min

Lab File: VU039536.D

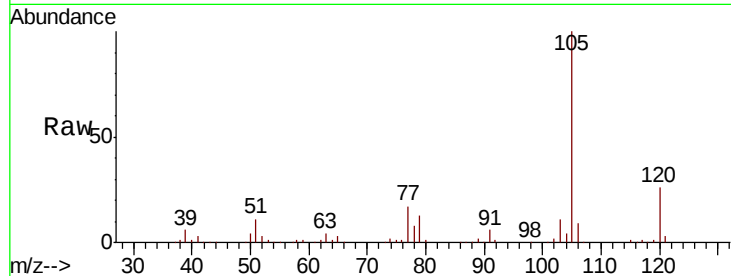
Acq: 16 Jul 2020 19:56

Instrument :

MSVOA_U

ClientSampleId :

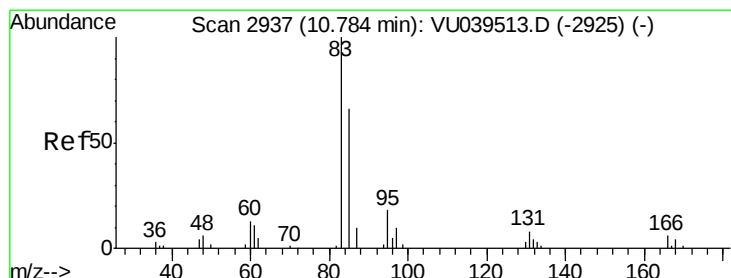
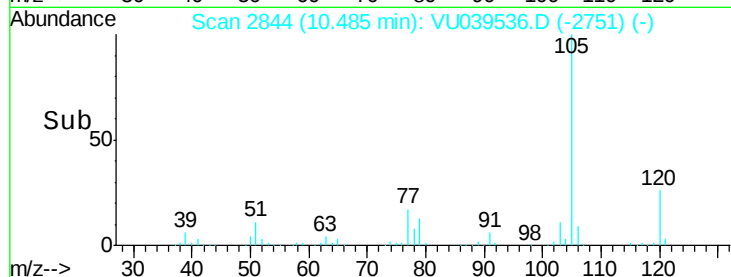
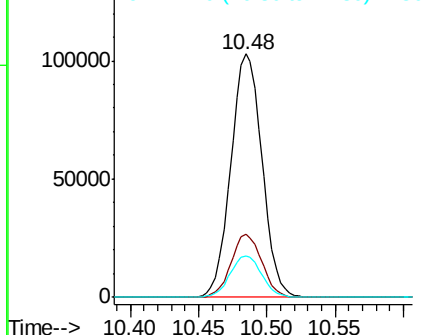
Tot Ion:	105	Resp:	163301
Ion	Ratio	Lower	Upper
105	100		
120	25.5	20.7	31.1
77	17.3	13.9	20.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.551 ug/L

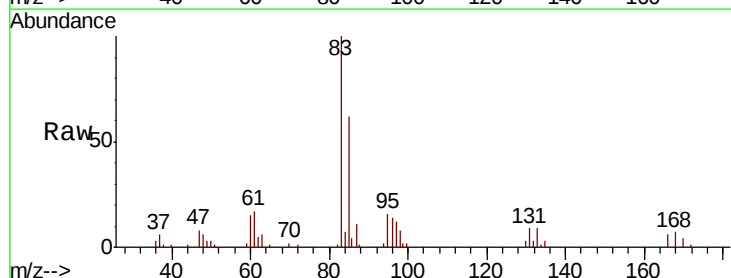
RT: 10.78 min Scan# 2937

Delta R.T. -0.00 min

Lab File: VU039536.D

Acq: 16 Jul 2020 19:56

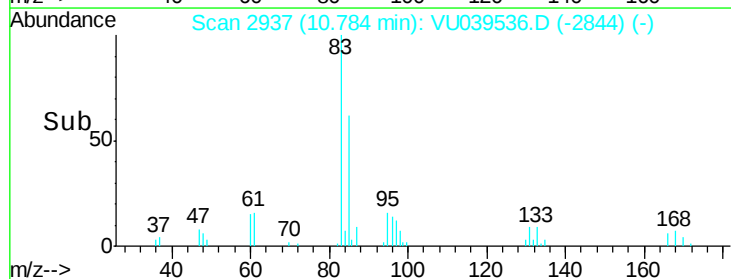
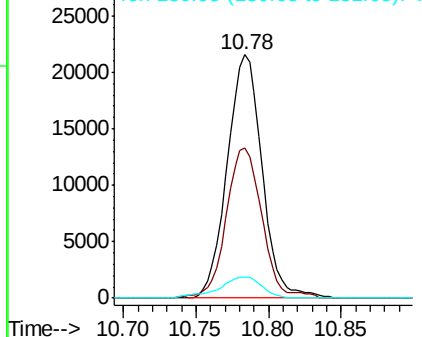
Tgt Ion:	83	Resp:	35969
Ion	Ratio	Lower	Upper
83	100		
85	61.6	46.1	85.7
131	8.6	7.4	11.0

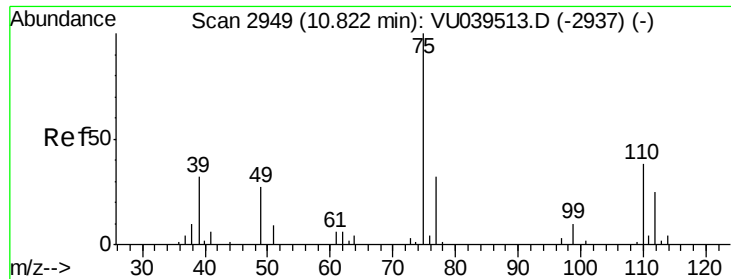


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.353 ug/L

RT: 10.82 min Scan# 2949

Delta R.T. -0.00 min

Lab File: VU039536.D

Acq: 16 Jul 2020 19:56

Instrument :

MSVOA_U

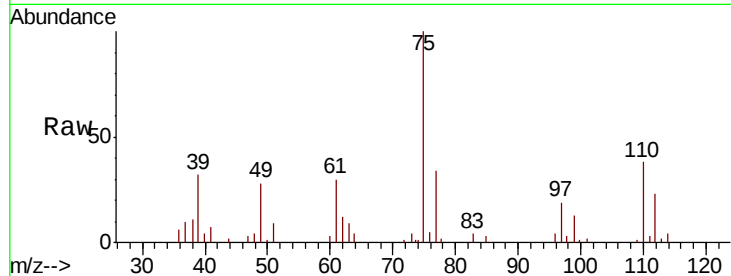
ClientSampleId :

Tot Ion: 75 Resp: 25359

Ion Ratio Lower Upper

75 100

77 32.8 26.8 40.2



Abundance Ion 75.00 (74.70 to 75.70): VU039513.D (-2937) (-)

Ion 77.00 (76.70 to 77.70): VU039513.D (-2937) (-)

10.82

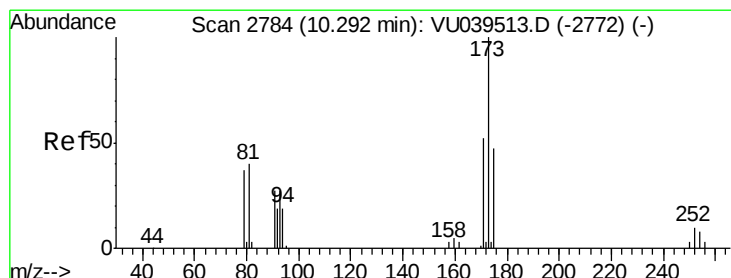
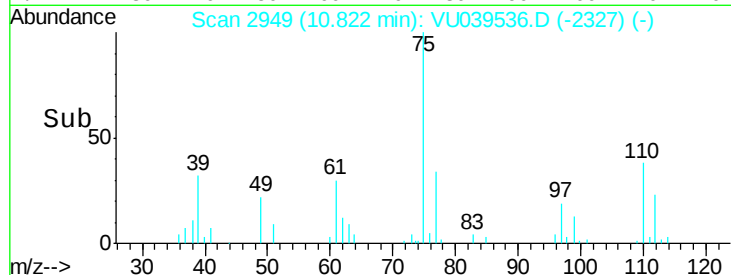
15000

10000

5000

0

Time-->



#61

Bromoform

Concen: 4.313 ug/L

RT: 10.29 min Scan# 2785

Delta R.T. 0.00 min

Lab File: VU039536.D

Acq: 16 Jul 2020 19:56

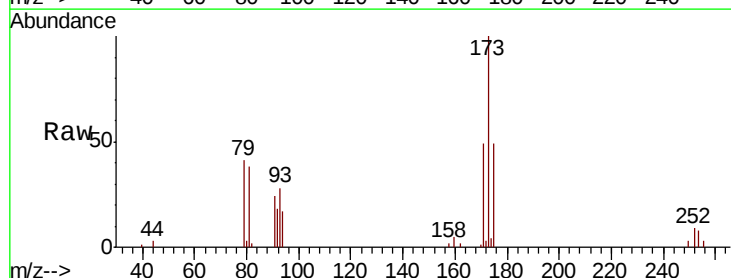
Tgt Ion: 173 Resp: 17669

Ion Ratio Lower Upper

173 100

175 48.0 37.5 56.3

254 8.7 6.7 10.1



Abundance Ion 172.90 (172.60 to 173.60): VU039513.D (-2772) (-)

Ion 174.90 (174.60 to 175.60): VU039513.D (-2772) (-)

Ion 253.75 (253.45 to 254.45): VU039513.D (-2772) (-)

10.29

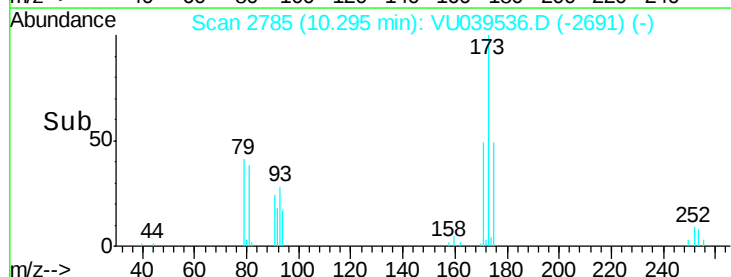
15000

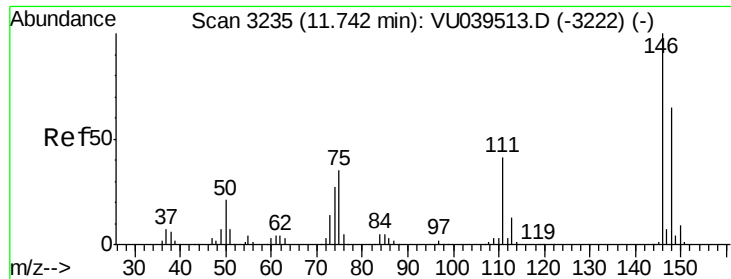
10000

5000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 4.645 ug/L

RT: 11.74 min Scan# 3235

Delta R.T. -0.00 min

Lab File: VU039536.D

Acq: 16 Jul 2020 19:56

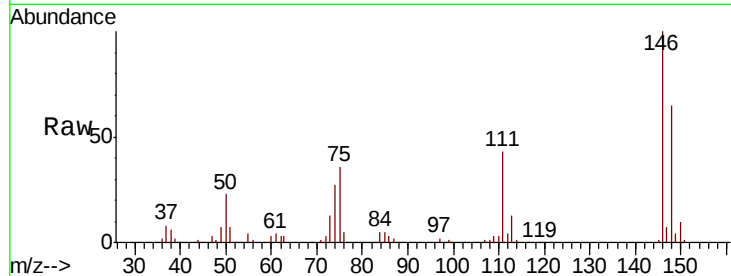
Instrument :

MSVOA_U

ClientSampled :

Tot Ion:146 Resp: 70747

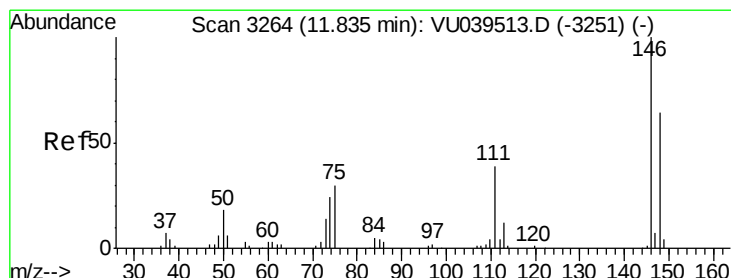
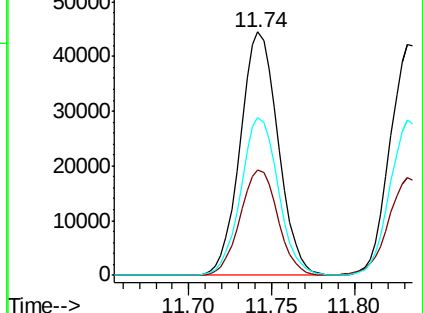
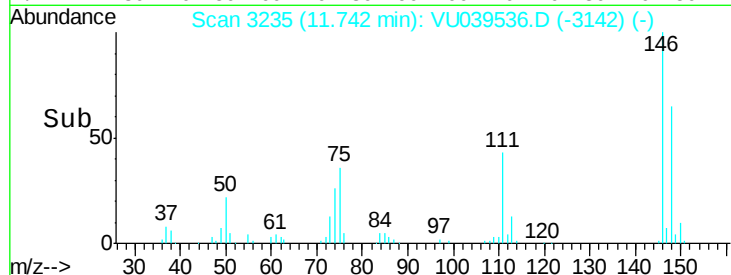
Ion	Ratio	Lower	Upper
146	100		
111	43.1	29.0	53.8
148	64.9	43.5	80.9



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.497 ug/L

RT: 11.83 min Scan# 3263

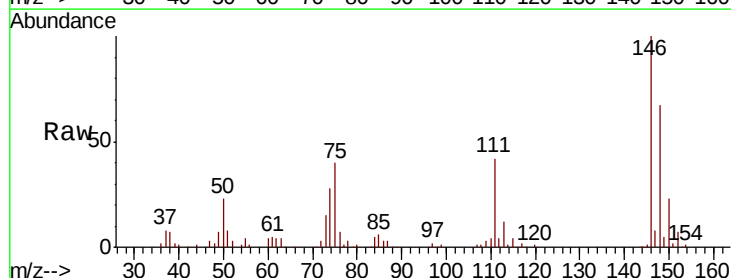
Delta R.T. -0.00 min

Lab File: VU039536.D

Acq: 16 Jul 2020 19:56

Tgt Ion:146 Resp: 68724

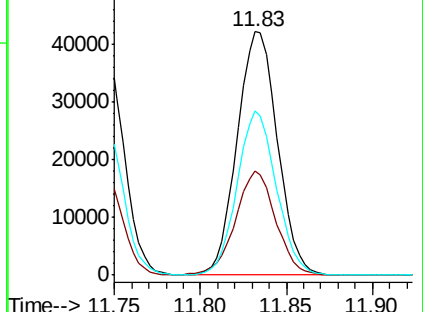
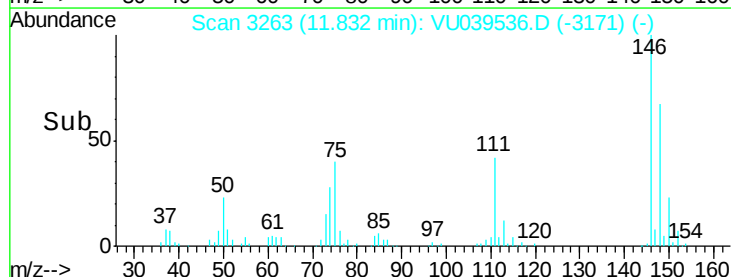
Ion	Ratio	Lower	Upper
146	100		
111	42.5	28.6	53.0
148	67.4	45.0	83.6

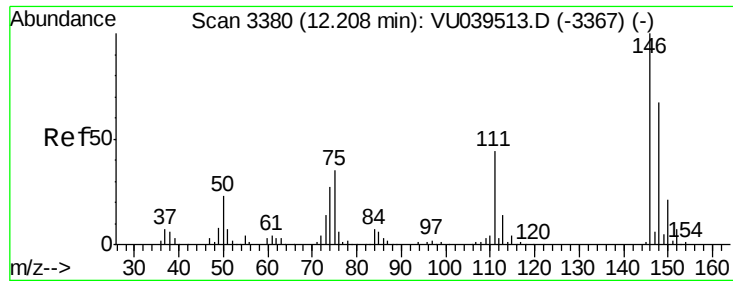


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

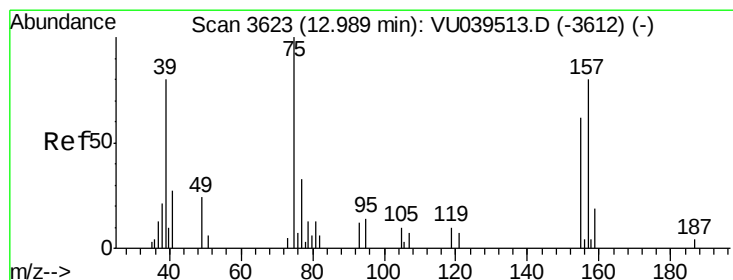
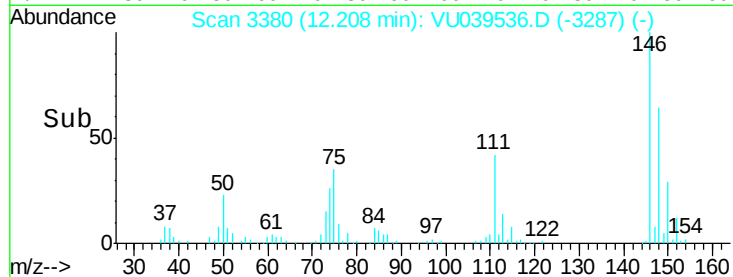
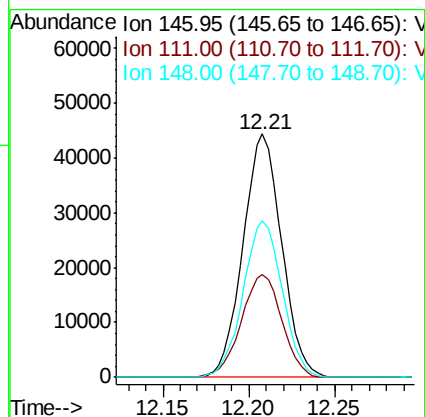
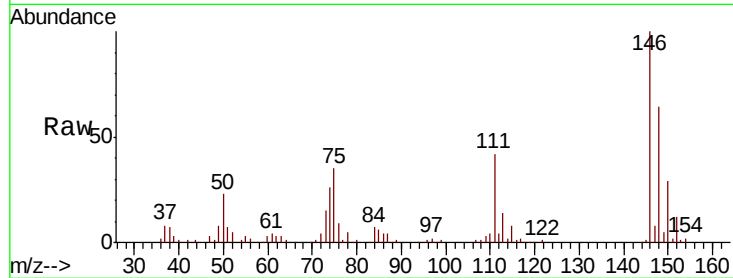




#65
 1,2-Dichlorobenzene
 Concen: 4.522 ug/L
 RT: 12.21 min Scan# 3380
 Delta R.T. -0.00 min
 Lab File: VU039536.D
 Acq: 16 Jul 2020 19:56

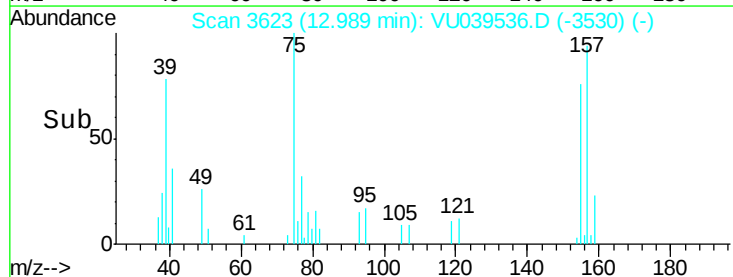
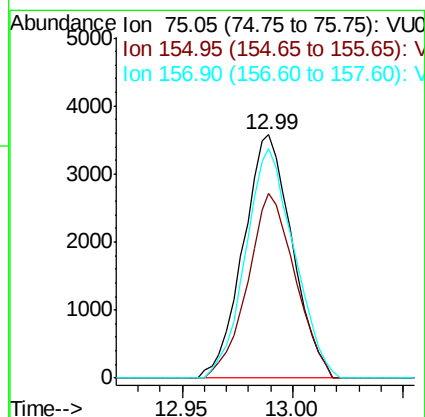
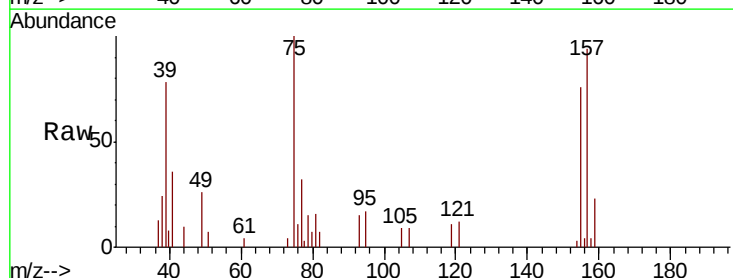
Instrument :
 MSVOA_U
 ClientSampleId :

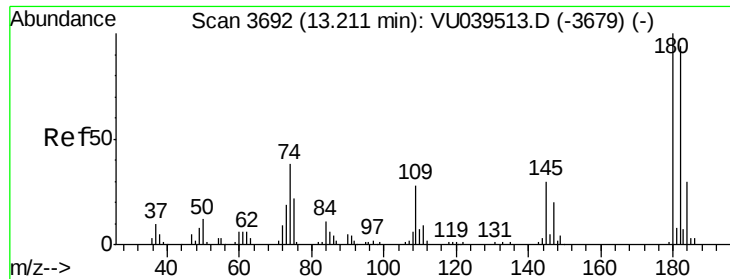
Tot Ion:146 Resp: 69056
 Ion Ratio Lower Upper
 146 100
 111 42.2 35.0 52.4
 148 64.1 50.6 75.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.077 ug/L
 RT: 12.99 min Scan# 3623
 Delta R.T. -0.00 min
 Lab File: VU039536.D
 Acq: 16 Jul 2020 19:56

Tgt Ion: 75 Resp: 5499
 Ion Ratio Lower Upper
 75 100
 155 75.7 51.9 77.9
 157 94.1 63.2 94.8

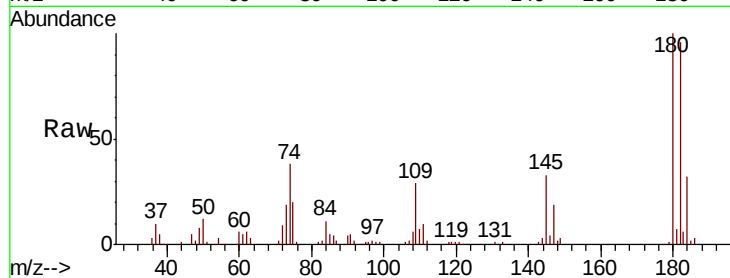




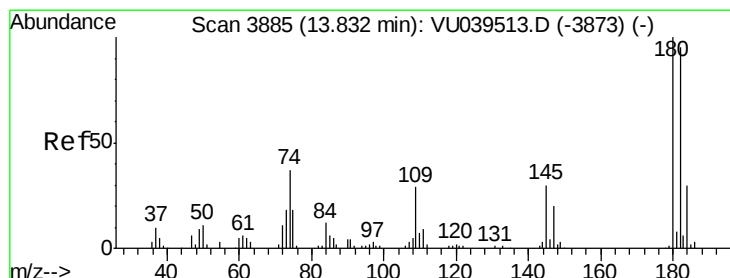
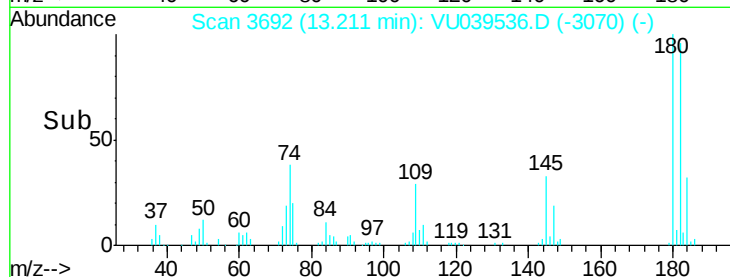
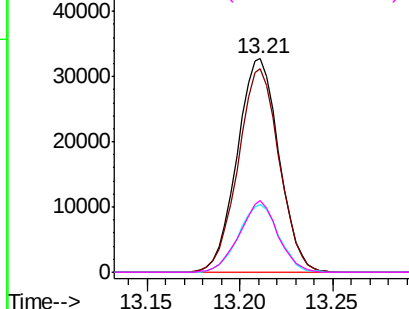
#67
 1,3,5-Trichlorobenzene
 Concen: 4.487 ug/L
 RT: 13.21 min Scan# 3692
 Delta R.T. -0.00 min
 Lab File: VU039536.D
 Acq: 16 Jul 2020 19:56

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion:180 Resp: 51143
 Ion Ratio Lower Upper
 180 100
 182 94.0 76.2 114.4
 184 30.4 24.2 36.4
 145 30.8 24.2 36.2

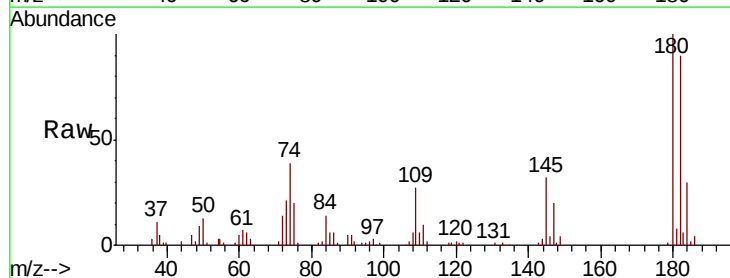


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

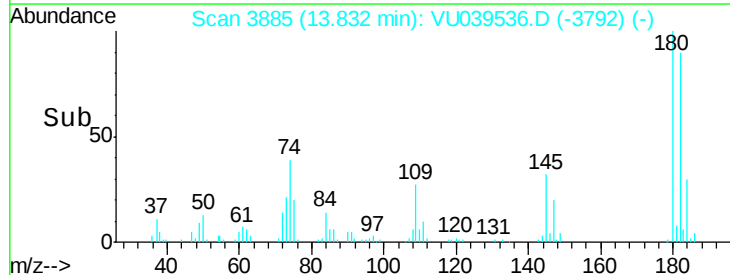
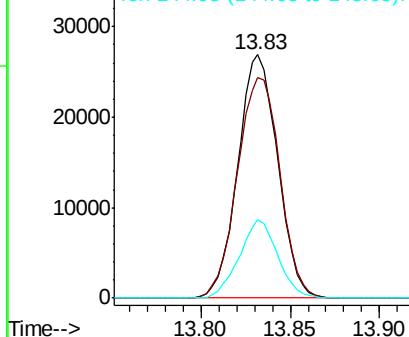


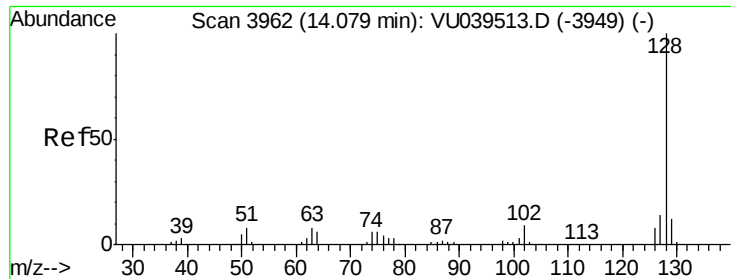
#68
 1,2,4-trichlorobenzene
 Concen: 4.291 ug/L
 RT: 13.83 min Scan# 3885
 Delta R.T. -0.00 min
 Lab File: VU039536.D
 Acq: 16 Jul 2020 19:56

Tgt Ion:180 Resp: 41855
 Ion Ratio Lower Upper
 180 100
 182 96.5 79.4 119.2
 145 30.9 26.4 39.6



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: 3.488 ug/L

RT: 14.08 min Scan# 3962

Delta R.T. -0.00 min

Lab File: VU039536.D

Acq: 16 Jul 2020 19:56

Instrument :

MSVOA_U

ClientSampled :

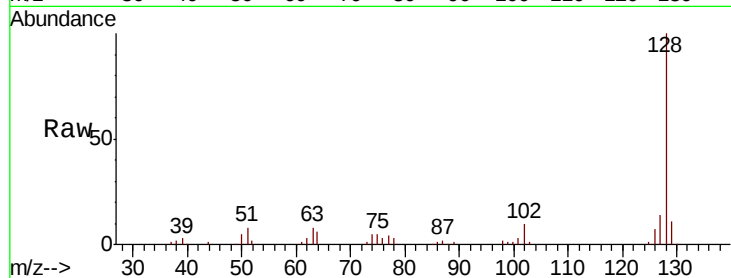
Tot Ion:128 Resp: 68450

Ion Ratio Lower Upper

128 100

129 11.0 8.6 13.0

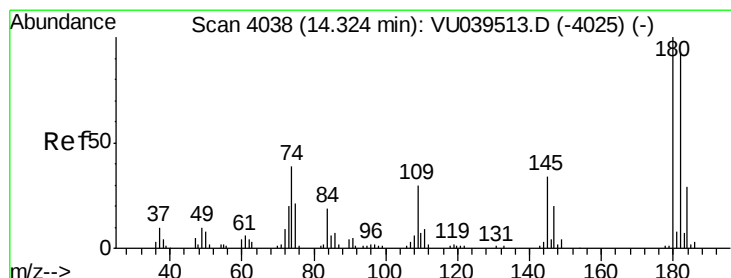
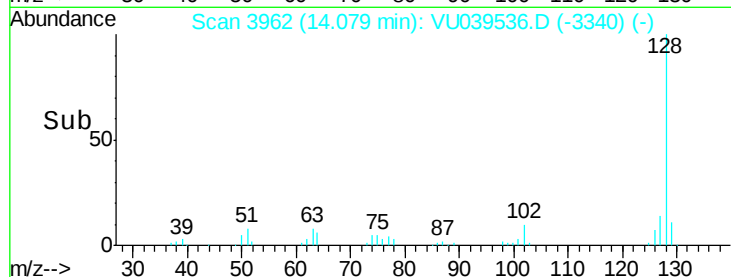
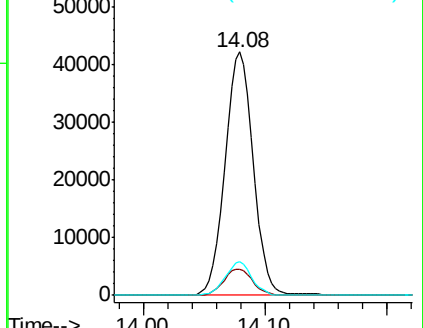
127 12.8 10.4 15.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.154 ug/L

RT: 14.32 min Scan# 4038

Delta R.T. -0.00 min

Lab File: VU039536.D

Acq: 16 Jul 2020 19:56

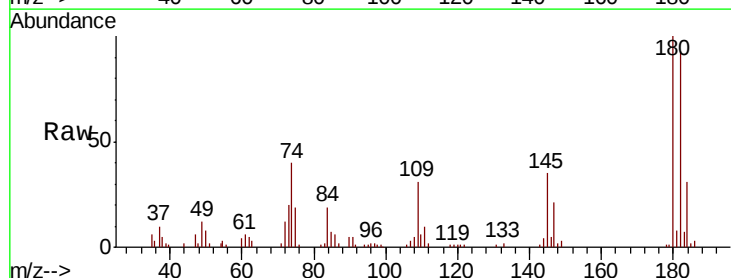
Tgt Ion:180 Resp: 37546

Ion Ratio Lower Upper

180 100

182 99.5 74.2 111.2

145 34.6 27.6 41.4



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

