

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU021120\
 Data File : VU036715.D
 Acq On : 11 Feb 2020 09:52
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Feb 12 02:30:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM020620W.M
 Quant Title : VOC Analysis
 QLast Update : Tue Feb 11 03:31:43 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	268480	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	252748	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.83	152	114942	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	74827	41.79	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	83.58%
7) Chloroethane-d5	1.93	69	72825	43.86	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	87.72%
11) 1,1-Dichloroethene-d2	2.59	63	151101	44.70	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.40%
21) 2-Butanone-d5	4.67	46	133597	87.46	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	87.46%
24) Chloroform-d	5.11	84	153419	47.34	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.68%
26) 1,2-Dichloroethane-d4	5.74	65	103270	46.59	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.18%
32) Benzene-d6	5.77	84	305595	45.99	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.98%
36) 1,2-Dichloropropane-d6	6.73	67	104739	47.48	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	94.96%
41) Toluene-d8	7.93	98	278561	45.78	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.56%
43) trans-1,3-Dichloropropene-	8.21	79	49359	46.73	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.46%
47) 2-Hexanone-d5	8.66	63	117450	93.29	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	93.29%
56) 1,1,2,2-Tetrachloroethane-	10.78	84	158071	48.63	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	97.26%
66) 1,2-Dichlorobenzene-d4	12.21	152	97688	46.78	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.56%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	90065	48.554	ug/L 100
3) Chloromethane	1.54	50	107654	48.975	ug/L 99
5) Vinyl chloride	1.62	62	119453	50.470	ug/L 100
6) Bromomethane	1.87	94	71093	47.905	ug/L 98
8) Chloroethane	1.95	64	73481	48.917	ug/L 99
9) Trichlorofluoromethane	2.16	101	140593	49.989	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	85863	50.970	ug/L 99
12) 1,1-Dichloroethene	2.60	96	81164	49.490	ug/L 97
13) Acetone	2.66	43	173309	106.800	ug/L 99
14) Carbon disulfide	2.82	76	240200	49.011	ug/L 100
15) Methyl Acetate	2.98	43	110843	47.248	ug/L 99
16) Methylene chloride	3.08	84	99639	49.224	ug/L 98
17) trans-1,2-Dichloroethene	3.39	96	87490	50.138	ug/L 98
18) Methyl tert-butyl Ether	3.41	73	296733	48.996	ug/L 99
19) 1,1-Dichloroethane	3.91	63	174385	50.156	ug/L 99
20) cis-1,2-Dichloroethene	4.71	96	100328	50.460	ug/L 99
22) 2-Butanone	4.75	43	189626	98.458	ug/L 99

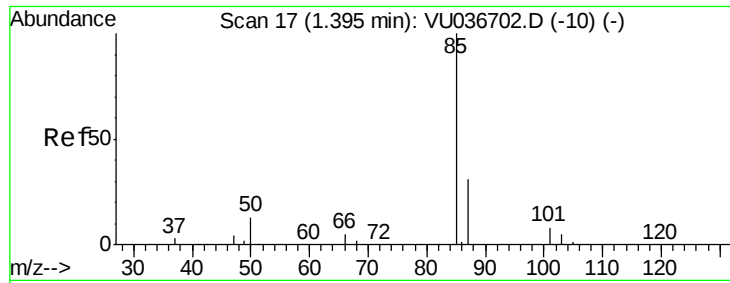
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU021120\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	45811	49.169	ug/L	97
25) Chloroform	5.13	83	171197	50.629	ug/L	97
27) 1,2-Dichloroethane	5.83	62	140411	49.378	ug/L	98
29) Cyclohexane	5.43	56	158656	48.868	ug/L	99
30) 1,1,1-Trichloroethane	5.36	97	134137	49.961	ug/L	99
31) Carbon tetrachloride	5.56	117	106905	49.176	ug/L	98
33) Benzene	5.81	78	384125	50.247	ug/L	100
34) Trichloroethene	6.58	95	94689	50.089	ug/L	98
35) Methylcyclohexane	6.80	83	166207	49.924	ug/L	99
37) 1,2-Dichloropropane	6.83	63	103473	50.195	ug/L	99
38) Bromodichloromethane	7.14	83	125048	49.918	ug/L	98
39) cis-1,3-Dichloropropene	7.64	75	164152	49.838	ug/L	99
40) 4-Methyl-2-pentanone	7.83	43	305888	93.918	ug/L	99
42) Toluene	8.00	91	414040	50.122	ug/L	100
44) trans-1,3-Dichloropropene	8.24	75	142621	49.566	ug/L	98
45) 1,1,2-Trichloroethane	8.43	97	92359	49.112	ug/L	97
46) Tetrachloroethene	8.58	164	64450	48.583	ug/L	99
48) 2-Hexanone	8.72	43	257218	96.812	ug/L	99
49) Dibromochloromethane	8.84	129	90964	49.454	ug/L	98
50) 1,2-Dibromoethane	8.95	107	96013	48.598	ug/L	99
51) Chlorobenzene	9.47	112	245405	49.337	ug/L	99
52) Ethylbenzene	9.60	91	450823	49.668	ug/L	99
53) m,p-Xylene	9.72	106	167978	50.166	ug/L	99
54) o-xylene	10.12	106	164914	49.717	ug/L	99
55) Styrene	10.14	104	279296	50.522	ug/L	100
57) 1,1,2,2-Tetrachloroethane	10.81	83	165923	48.963	ug/L	98
59) Bromoform	10.32	173	63349	49.885	ug/L	100
60) 1,2,3-Trichloropropane	10.85	75	131619	48.680	ug/L	99
61) Isopropylbenzene	10.51	105	431680	50.437	ug/L	100
62) 1,3,5-Trimethylbenzene	11.11	105	373155	50.853	ug/L	99
63) 1,2,4-Trimethylbenzene	11.49	105	369066	50.369	ug/L	99
64) 1,3-Dichlorobenzene	11.77	146	179007	49.733	ug/L	99
65) 1,4-Dichlorobenzene	11.86	146	177457	48.971	ug/L	99
67) 1,2-Dichlorobenzene	12.23	146	178477	48.975	ug/L	99
68) 1,2-Dibromo-3-chloropropan	13.01	75	35617	46.096	ug/L	97
69) 1,3,5-Trichlorobenzene	13.23	180	122394	49.038	ug/L	99
70) 1,2,4-trichlorobenzene	13.85	180	98203	47.185	ug/L	100
71) Naphthalene	14.10	128	336455	45.862	ug/L	99
72) 1,2,3-Trichlorobenzene	14.34	180	94387	45.521	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 48.554 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU036715.D

Acq: 11 Feb 2020 09:52

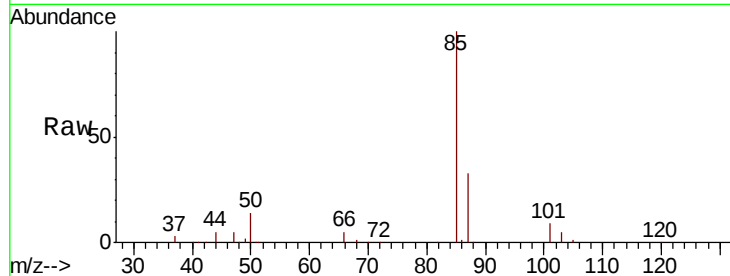
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 85 Resp: 90065

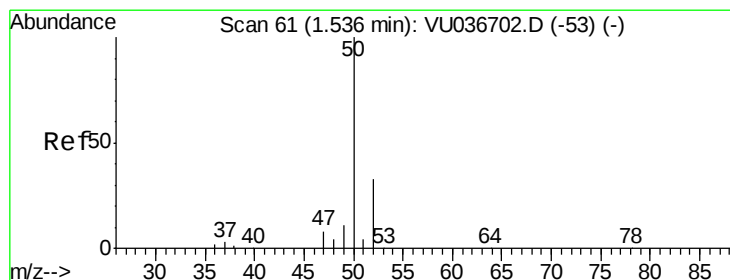
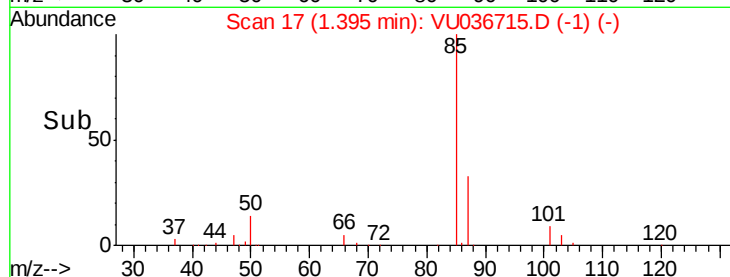
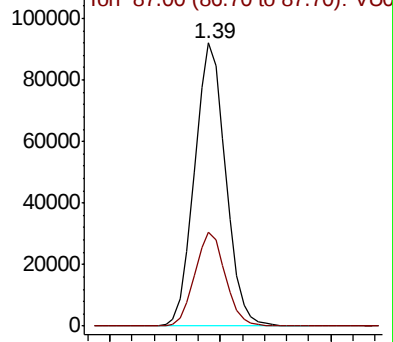
Ion Ratio Lower Upper

85 100

87 32.5 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VU036715.D (-1) (-)



#3

Chloromethane

Concen: 48.975 ug/L

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU036715.D

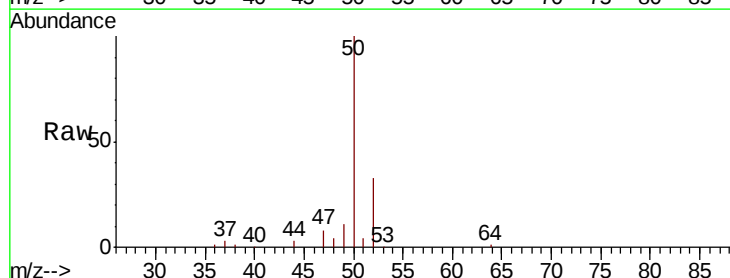
Acq: 11 Feb 2020 09:52

Tgt Ion: 50 Resp: 107654

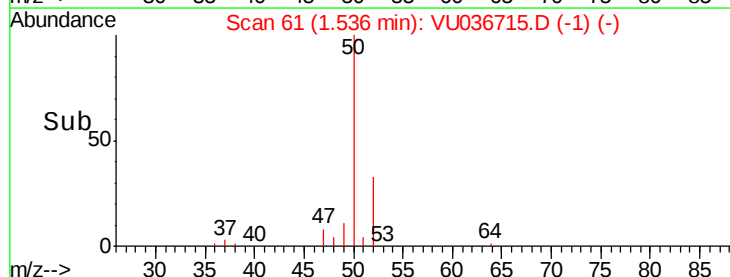
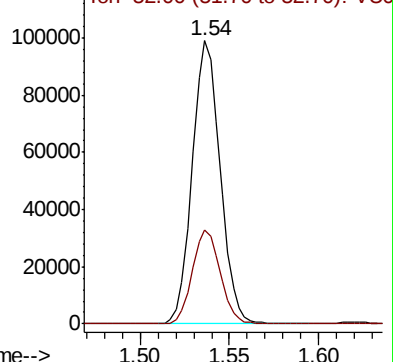
Ion Ratio Lower Upper

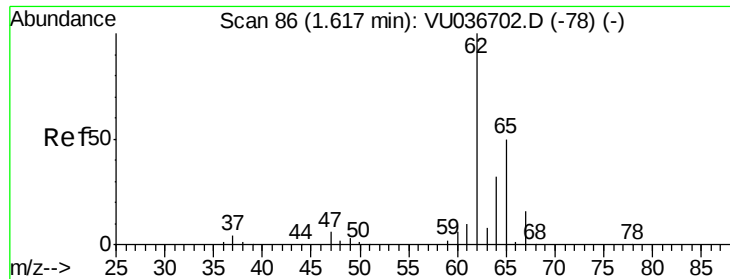
50 100

52 33.2 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VU036715.D (-1) (-)





#5

Vinyl chloride

Concen: 50.470 ug/L

RT: 1.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VU036715.D

Acq: 11 Feb 2020 09:52

Instrument :

MSVOA_U

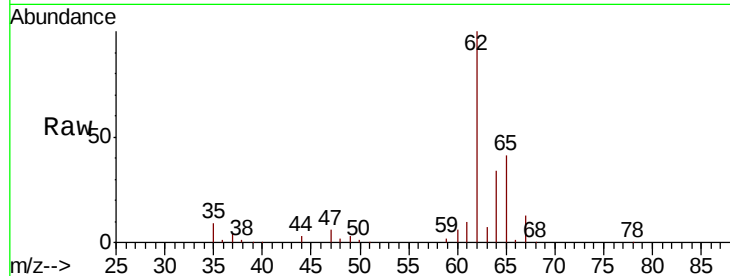
ClientSampleId :

Tot Ion: 62 Resp: 119453

Ion Ratio Lower Upper

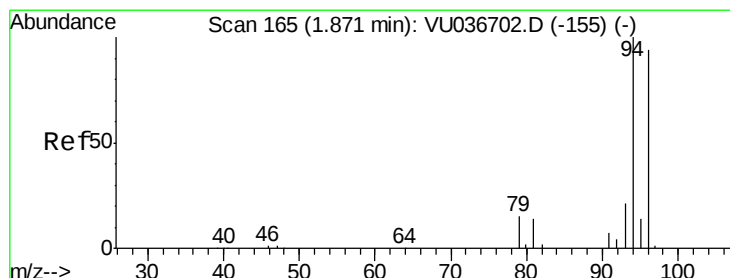
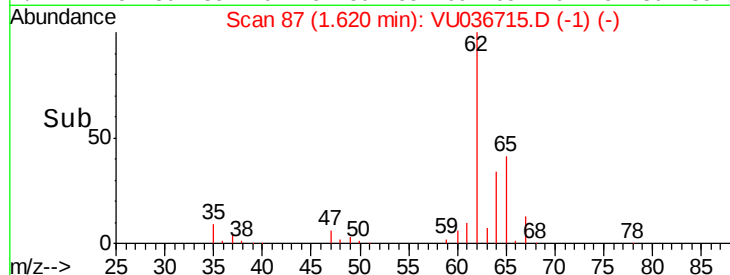
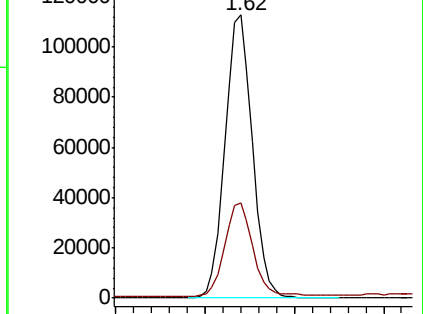
62 100

64 33.6 23.4 43.6



Abundance Ion 62.00 (61.70 to 62.70): VU036715.D (-1) (-)

Ion 64.00 (63.70 to 64.70): VU036715.D (-1) (-)



#6

Bromomethane

Concen: 47.905 ug/L

RT: 1.87 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU036715.D

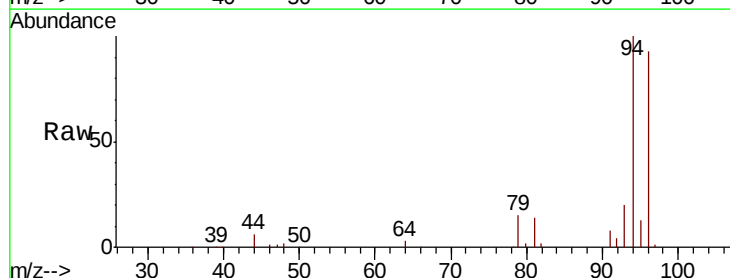
Acq: 11 Feb 2020 09:52

Tgt Ion: 94 Resp: 71093

Ion Ratio Lower Upper

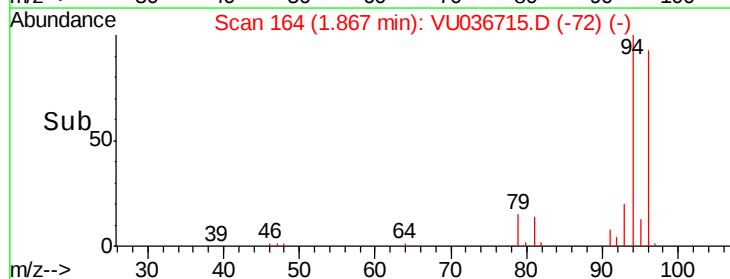
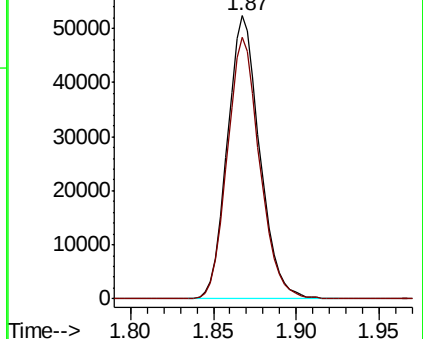
94 100

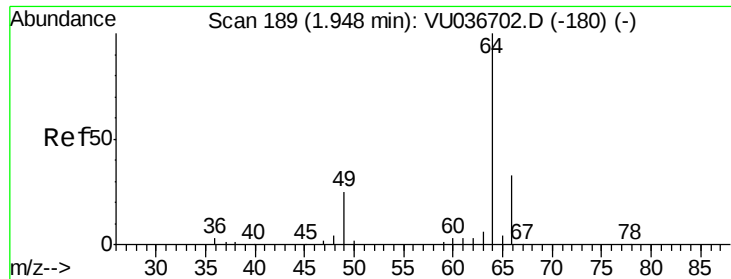
96 92.6 66.3 123.1



Abundance Ion 94.00 (93.70 to 94.70): VU036715.D (-72) (-)

Ion 96.00 (95.70 to 96.70): VU036715.D (-72) (-)

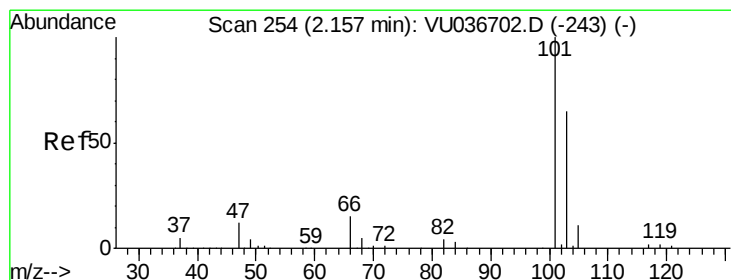
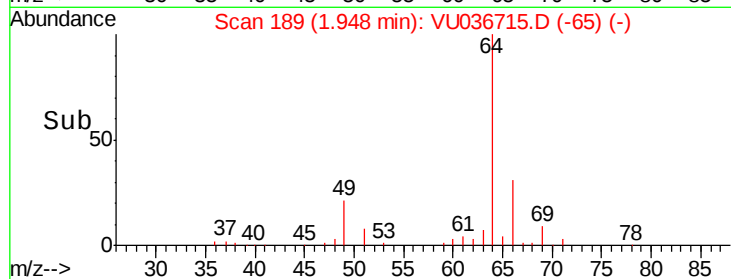
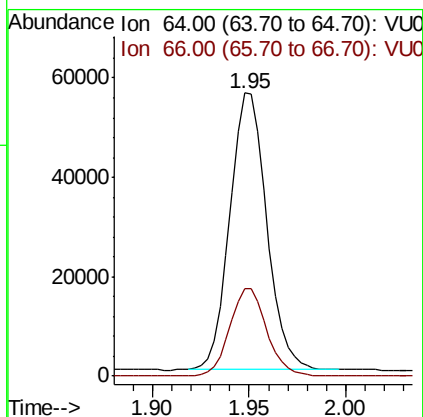
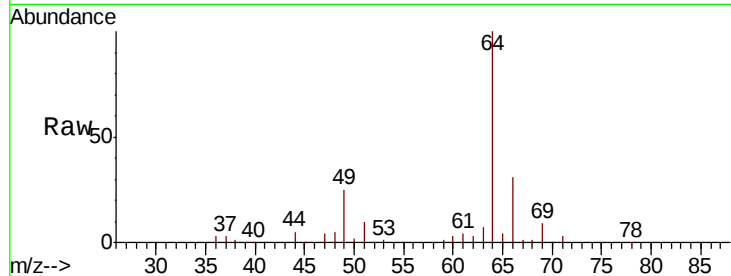




#8
Chloroethane
Concen: 48.917 ug/L
RT: 1.95 min Scan# 189
Delta R.T. -0.00 min
Lab File: VU036715.D
Acq: 11 Feb 2020 09:52

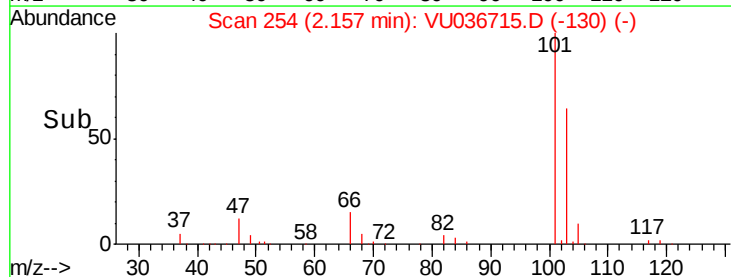
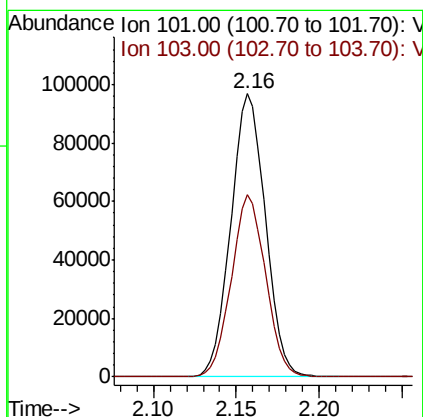
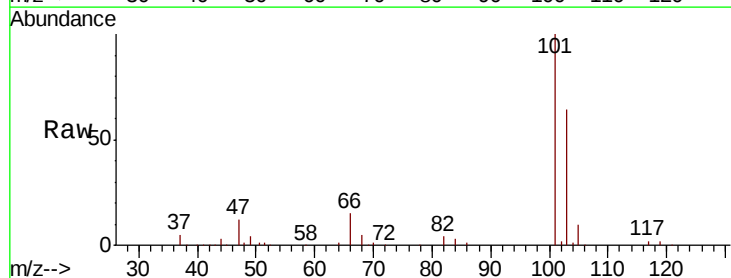
Instrument :
MSVOA_U
ClientSampleId :

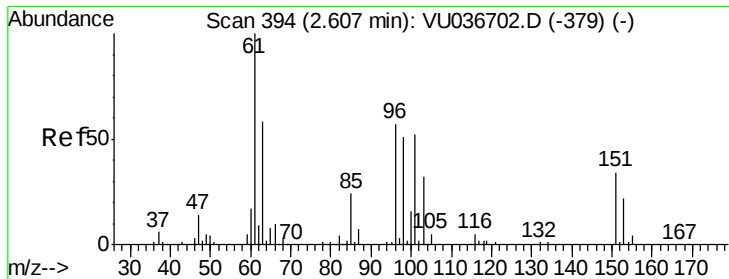
Tot Ion: 64 Resp: 73481
Ion Ratio Lower Upper
64 100
66 31.0 22.1 41.1



#9
Trichlorofluoromethane
Concen: 49.989 ug/L
RT: 2.16 min Scan# 254
Delta R.T. -0.00 min
Lab File: VU036715.D
Acq: 11 Feb 2020 09:52

Tgt Ion:101 Resp: 140593
Ion Ratio Lower Upper
101 100
103 63.8 51.6 77.4





#10

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

Concen: 50.970 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU036715.D

Acq: 11 Feb 2020 09:52

Instrument :

MSVOA_U

ClientSampled :

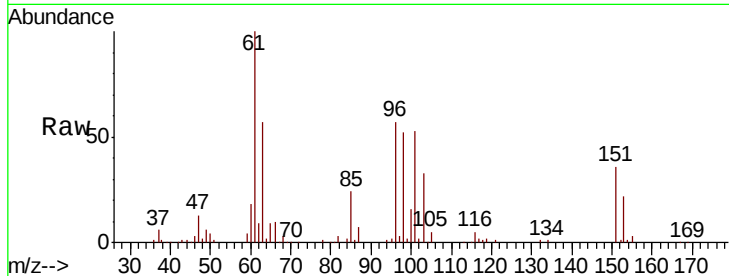
Tot Ion:101 Resp: 85863

Ion Ratio Lower Upper

101 100

85 44.7 36.5 54.7

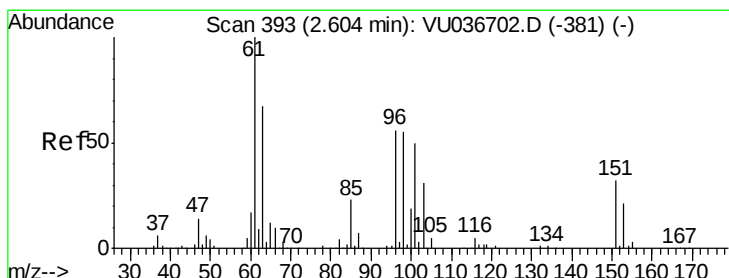
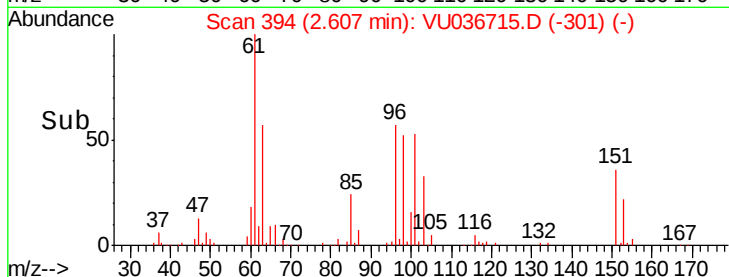
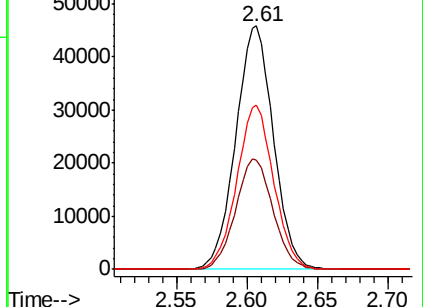
151 66.0 52.6 78.8



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: 49.490 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU036715.D

Acq: 11 Feb 2020 09:52

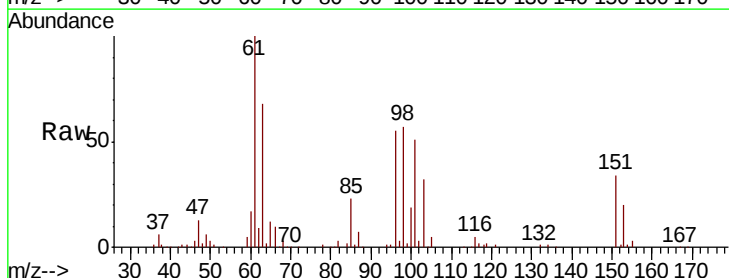
Tgt Ion: 96 Resp: 81164

Ion Ratio Lower Upper

96 100

61 181.2 124.4 231.0

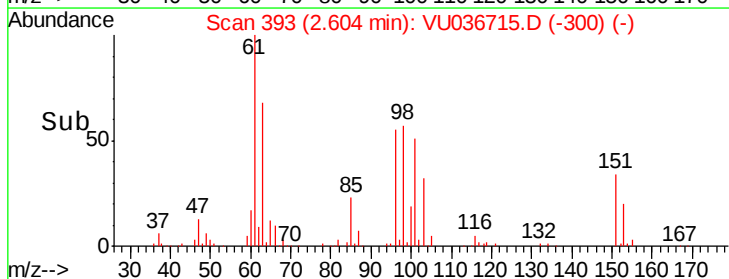
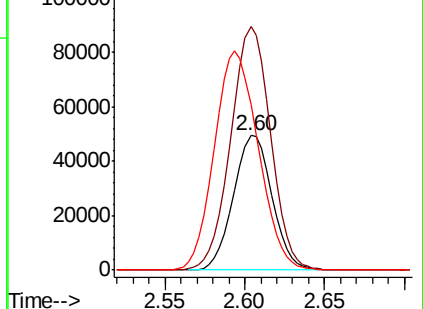
63 123.1 83.4 155.0

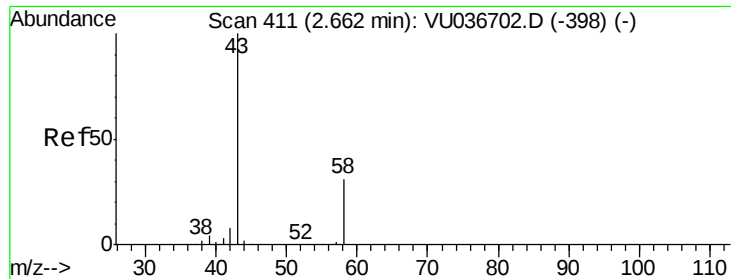


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 106.800 ug/L

RT: 2.66 min Scan# 409

Delta R.T. -0.01 min

Lab File: VU036715.D

Acq: 11 Feb 2020 09:52

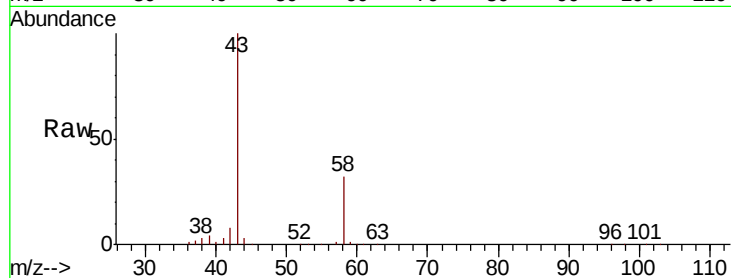
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 173309

Ion Ratio Lower Upper

43 100

58 31.3 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VU036715.D (-318) (-)

Ion 58.00 (57.70 to 58.70): VU036715.D (-318) (-)

120000

100000

80000

60000

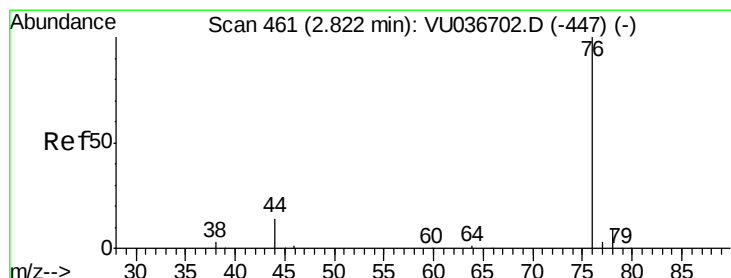
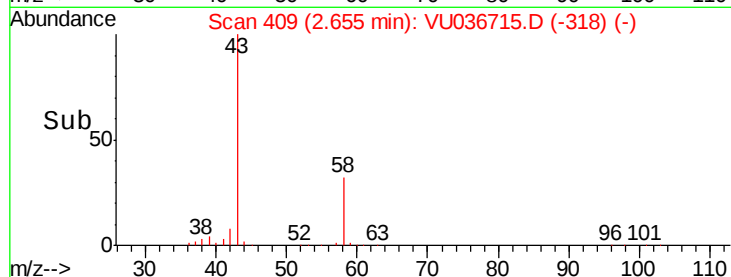
40000

20000

0

2.60 2.65 2.70 2.75

Time-->



#14

Carbon disulfide

Concen: 49.011 ug/L

RT: 2.82 min Scan# 460

Delta R.T. -0.00 min

Lab File: VU036715.D

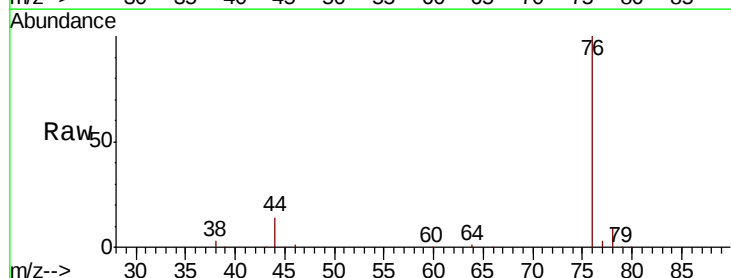
Acq: 11 Feb 2020 09:52

Tgt Ion: 76 Resp: 240200

Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU036715.D (-368) (-)

Ion 78.00 (77.70 to 78.70): VU036715.D (-368) (-)

150000

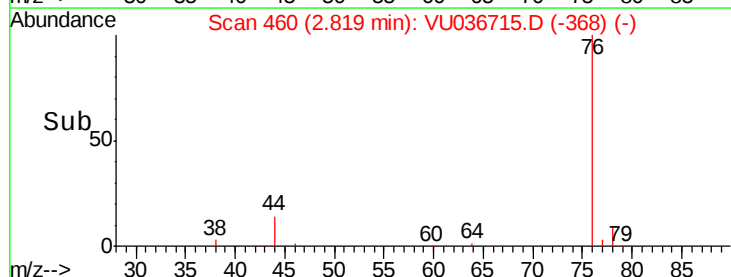
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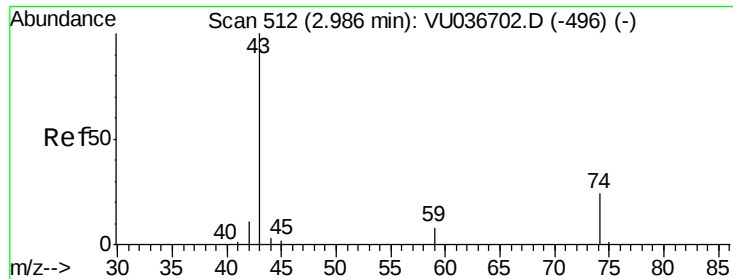
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2.75 2.80 2.85 2.90 2.95

Time-->

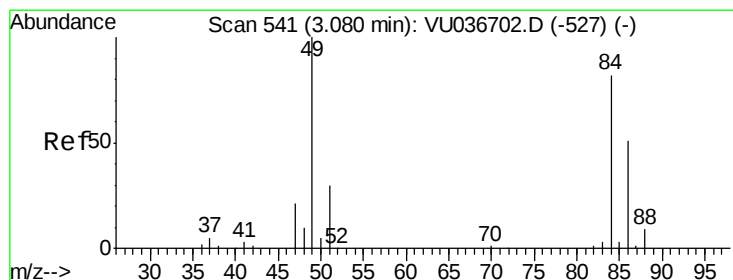
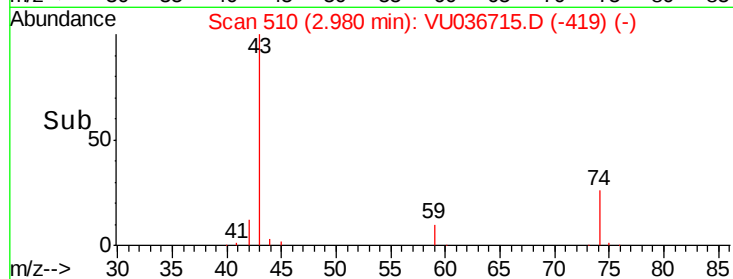
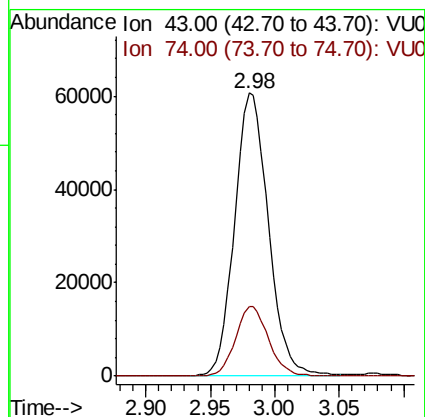
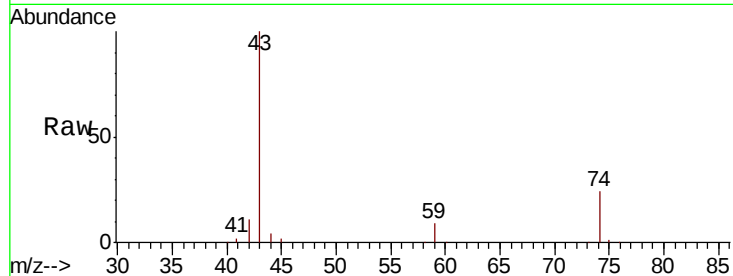




#15
Methvl Acetate
Concen: 47.248 ug/L
RT: 2.98 min Scan# 510
Delta R.T. -0.01 min
Lab File: VU036715.D
Acq: 11 Feb 2020 09:52

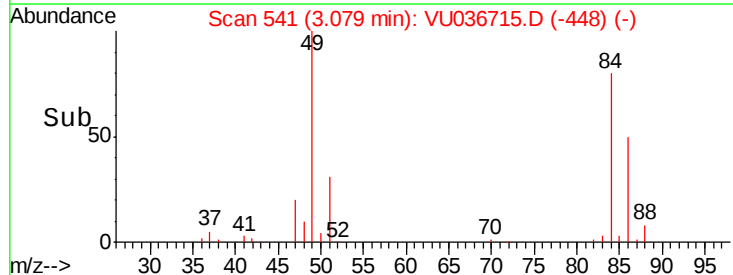
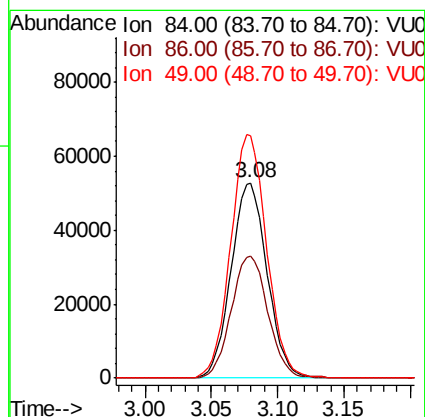
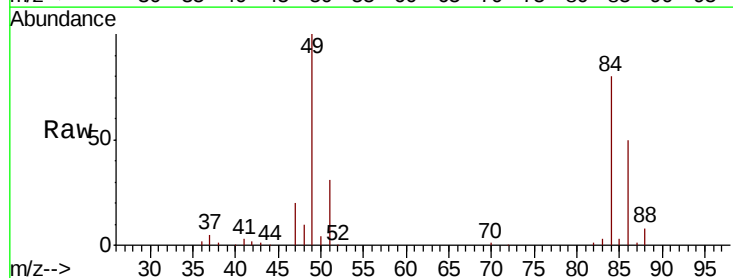
Instrument :
MSVOA_U
ClientSampleId :

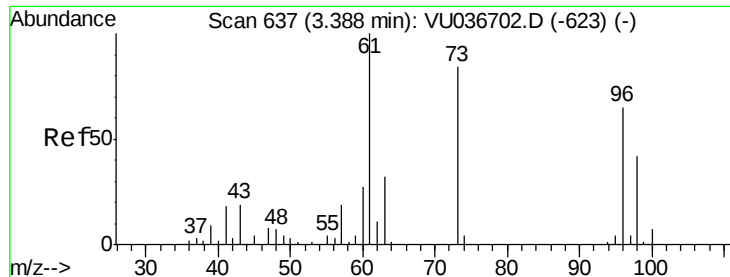
Tot Ion: 43 Resp: 110843
Ion Ratio Lower Upper
43 100
74 23.9 18.7 28.1



#16
Methylene chloride
Concen: 49.224 ug/L
RT: 3.08 min Scan# 541
Delta R.T. -0.00 min
Lab File: VU036715.D
Acq: 11 Feb 2020 09:52

Tgt Ion: 84 Resp: 99639
Ion Ratio Lower Upper
84 100
86 62.5 44.4 82.5
49 124.2 89.2 165.8

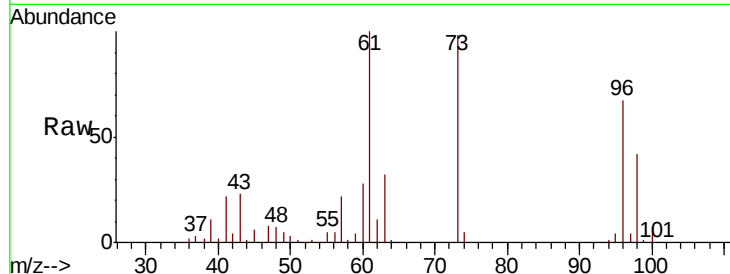




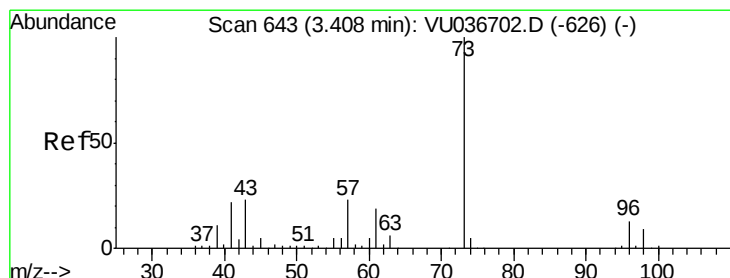
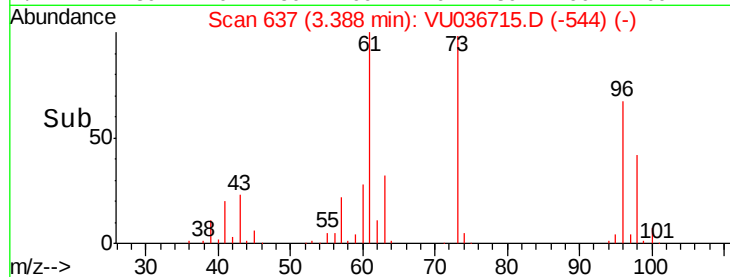
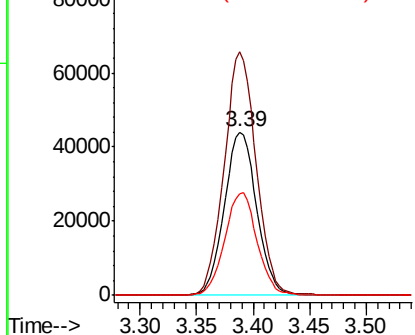
#17
trans-1,2-Dichloroethene
Concen: 50.138 ug/L
RT: 3.39 min Scan# 637
Delta R.T. -0.00 min
Lab File: VU036715.D
Acq: 11 Feb 2020 09:52

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 96 Resp: 87490
Ion Ratio Lower Upper
96 100
61 149.2 103.4 192.0
98 62.5 45.4 84.2

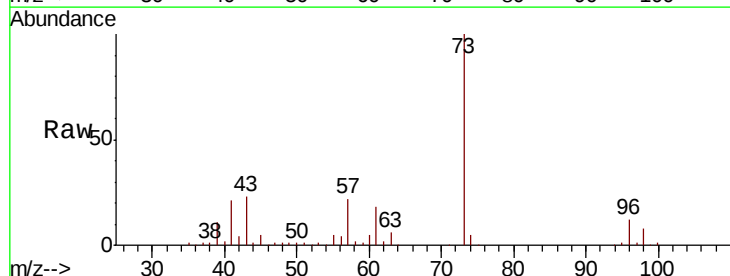


Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

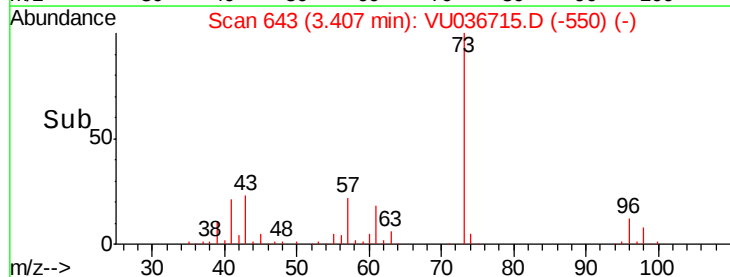
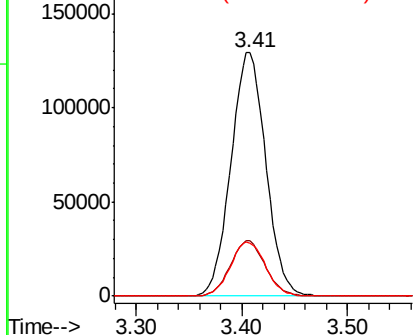


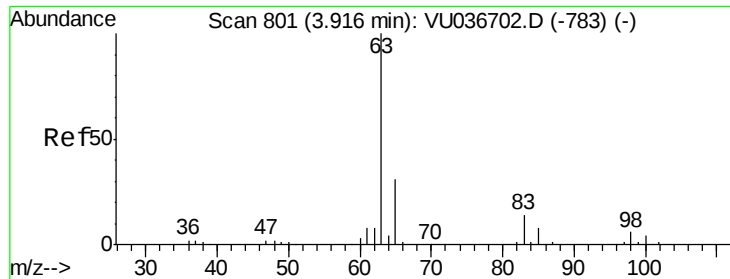
#18
Methyl tert-butyl Ether
Concen: 48.996 ug/L
RT: 3.41 min Scan# 643
Delta R.T. -0.00 min
Lab File: VU036715.D
Acq: 11 Feb 2020 09:52

Tgt Ion: 73 Resp: 296733
Ion Ratio Lower Upper
73 100
43 22.7 18.6 28.0
57 22.4 18.3 27.5



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





#19

1,1-Dichloroethane

Concen: 50.156 ug/L

RT: 3.91 min Scan# 800

Delta R.T. -0.00 min

Lab File: VU036715.D

Acq: 11 Feb 2020 09:52

Instrument :

MSVOA_U

ClientSampleId :

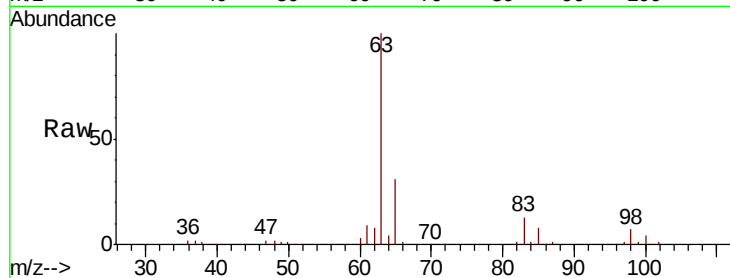
Tot Ion: 63 Resp: 174385

Ion Ratio Lower Upper

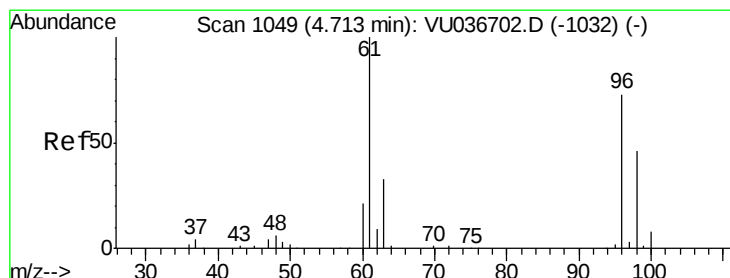
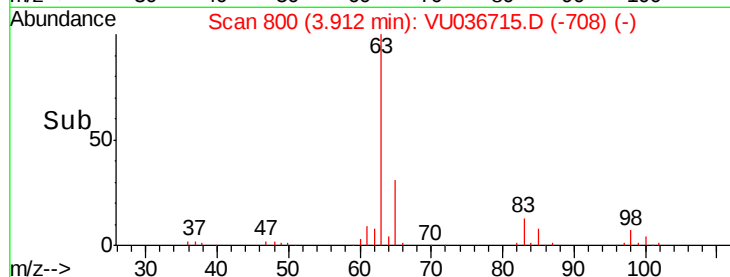
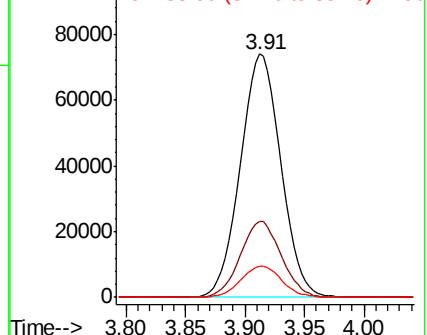
63 100

65 31.4 22.0 40.8

83 12.8 10.1 18.7



Abundance Ion 63.00 (62.70 to 63.70): VU0
Ion 65.00 (64.70 to 65.70): VU0
Ion 83.00 (82.70 to 83.70): VU0



#20

cis-1,2-Dichloroethene

Concen: 50.460 ug/L

RT: 4.71 min Scan# 1048

Delta R.T. -0.00 min

Lab File: VU036715.D

Acq: 11 Feb 2020 09:52

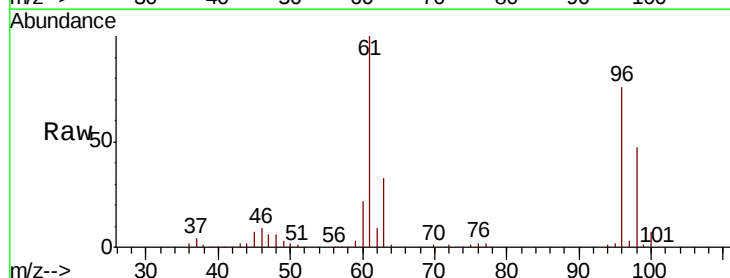
Tgt Ion: 96 Resp: 100328

Ion Ratio Lower Upper

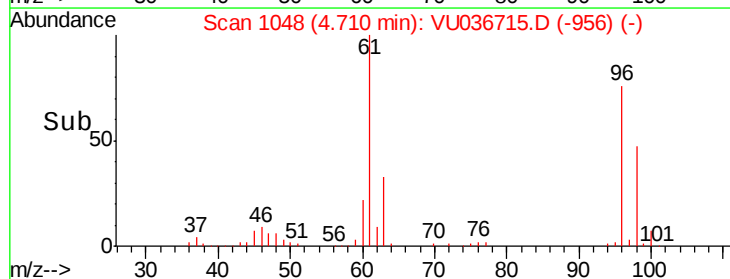
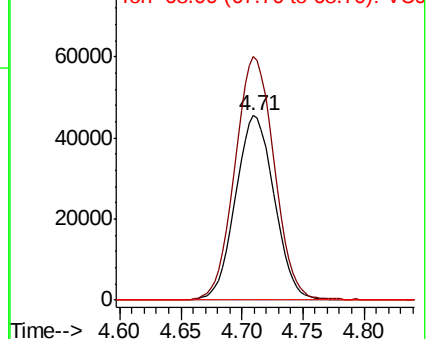
96 100

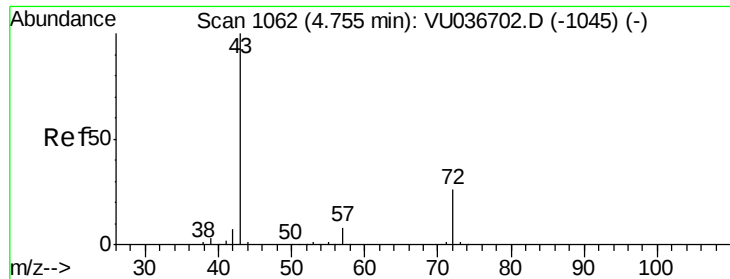
61 132.2 93.3 173.3

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 98.458 ug/L

RT: 4.75 min Scan# 1061

Delta R.T. -0.00 min

Lab File: VU036715.D

Acq: 11 Feb 2020 09:52

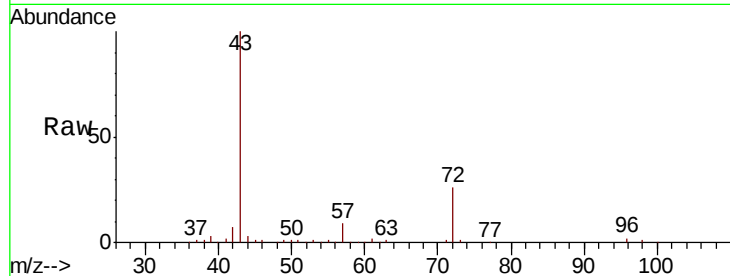
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 189626

Ion Ratio Lower Upper

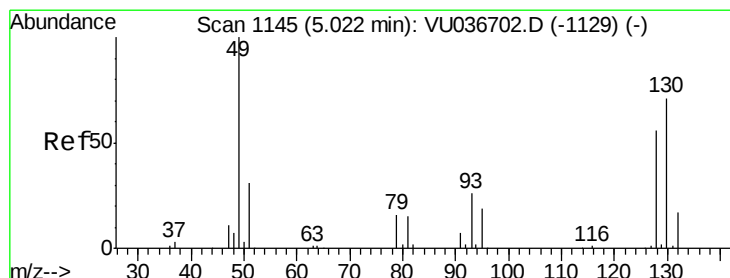
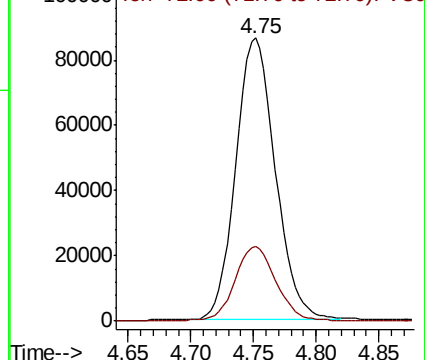
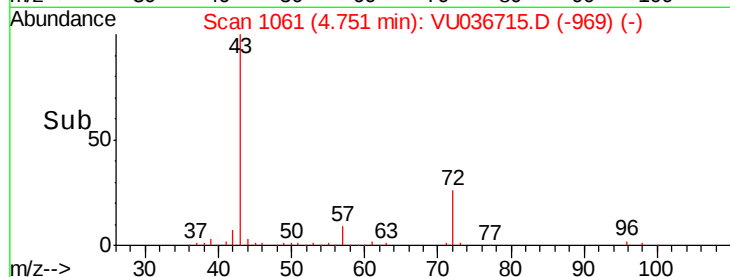
43 100

72 27.8 13.6 40.7



Abundance Ion 43.00 (42.70 to 43.70): VU036715.D (-969) (-)

Ion 72.00 (71.70 to 72.70): VU036715.D (-969) (-)



#23

Bromochloromethane

Concen: 49.169 ug/L

RT: 5.02 min Scan# 1144

Delta R.T. -0.00 min

Lab File: VU036715.D

Acq: 11 Feb 2020 09:52

Tgt Ion:128 Resp: 45811

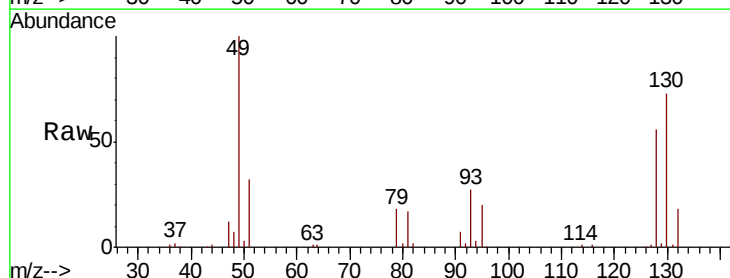
Ion Ratio Lower Upper

128 100

49 178.2 127.3 236.5

130 130.4 88.5 164.3

51 56.4 44.4 66.6

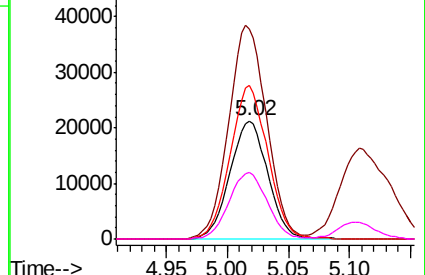
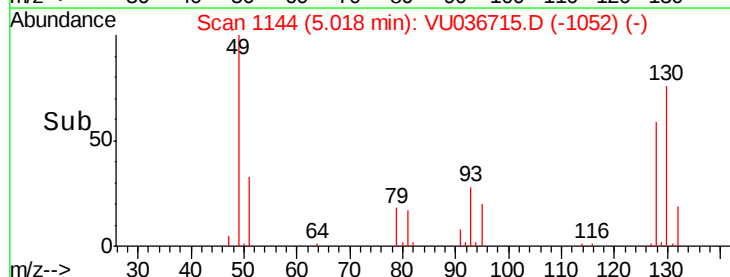


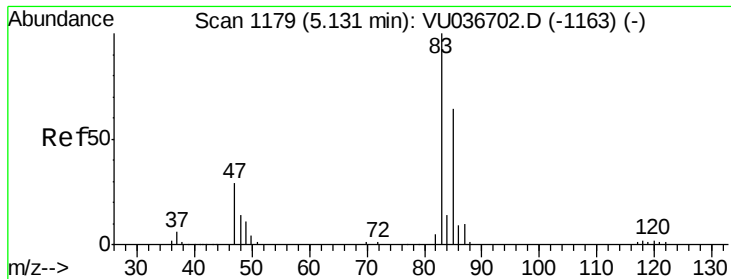
Abundance Ion 128.00 (127.70 to 128.70): VU036715.D (-1052) (-)

Ion 49.00 (48.70 to 49.70): VU036715.D (-1052) (-)

Ion 130.00 (129.70 to 130.70): VU036715.D (-1052) (-)

Ion 51.00 (50.70 to 51.70): VU036715.D (-1052) (-)

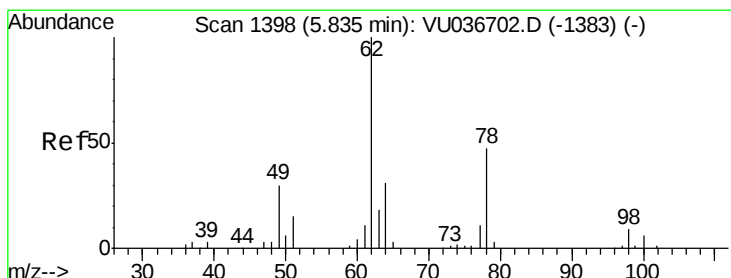
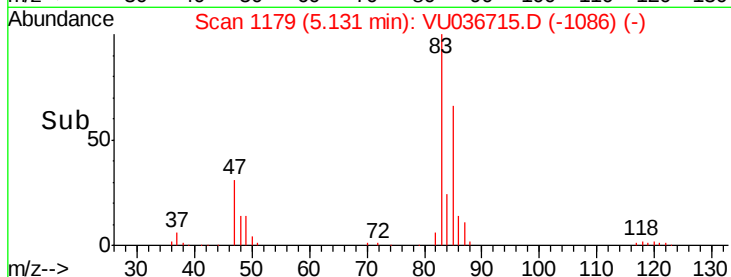
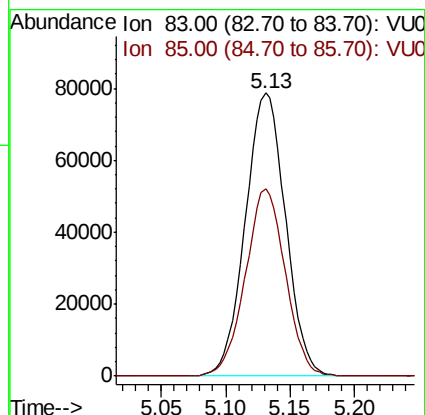
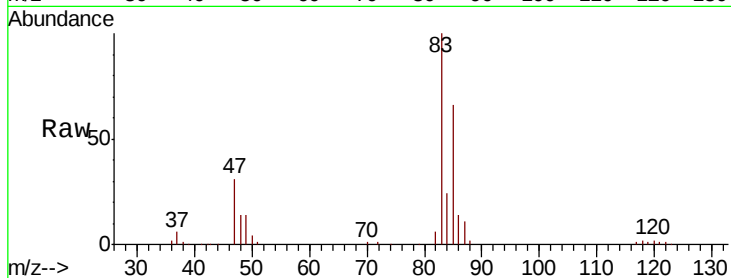




#25
Chloroform
Concen: 50.629 ug/L
RT: 5.13 min Scan# 1179
Delta R.T. -0.00 min
Lab File: VU036715.D
Acq: 11 Feb 2020 09:52

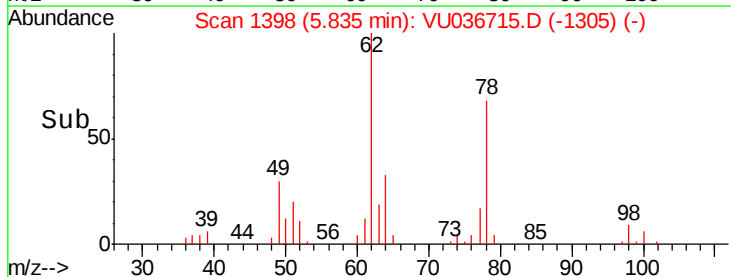
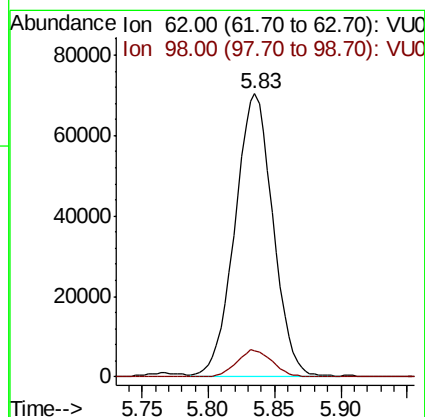
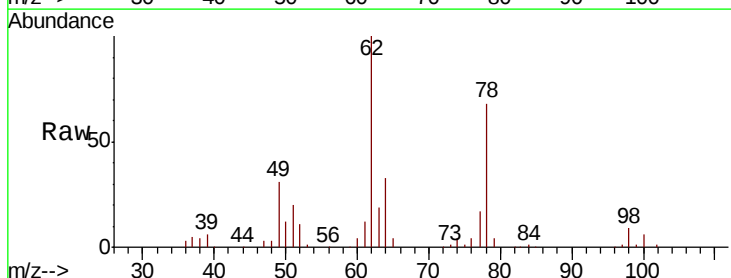
Instrument :
MSVOA_U
ClientSampleId :

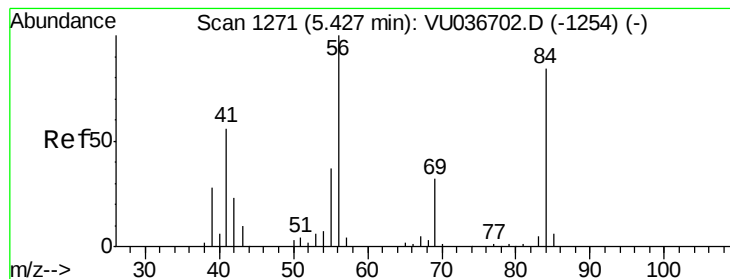
Tot Ion: 83 Resp: 171197
Ion Ratio Lower Upper
83 100
85 66.4 44.6 82.8



#27
1,2-Dichloroethane
Concen: 49.378 ug/L
RT: 5.83 min Scan# 1398
Delta R.T. -0.00 min
Lab File: VU036715.D
Acq: 11 Feb 2020 09:52

Tgt Ion: 62 Resp: 140411
Ion Ratio Lower Upper
62 100
98 9.4 7.0 10.4





#29

Cyclohexane

Concen: 48.868 ug/L

RT: 5.43 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VU036715.D

Acq: 11 Feb 2020 09:52

Instrument :
MSVOA_U
ClientSampled :

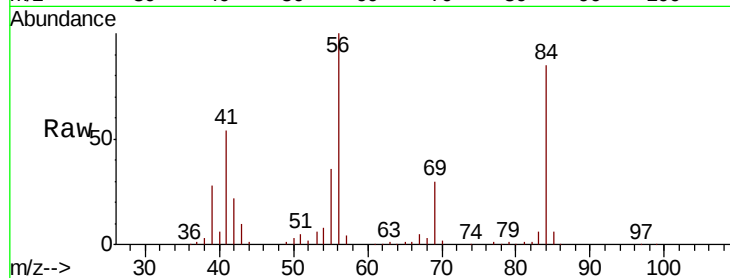
Tot Ion: 56 Resp: 158656

Ion Ratio Lower Upper

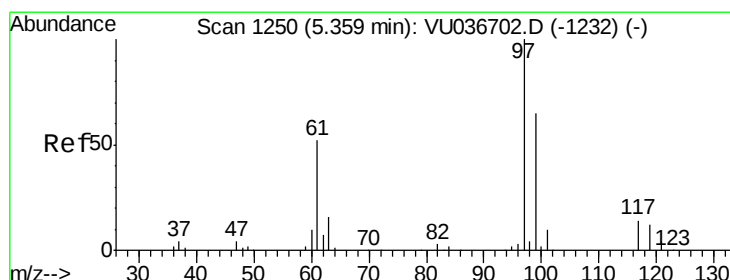
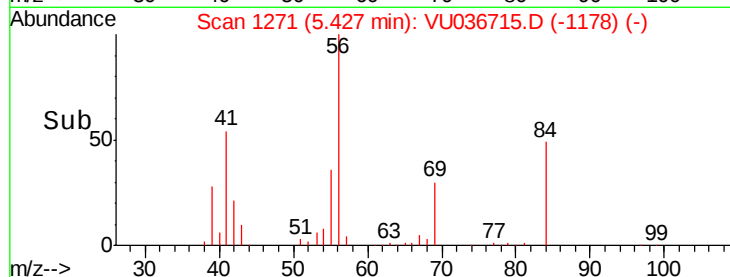
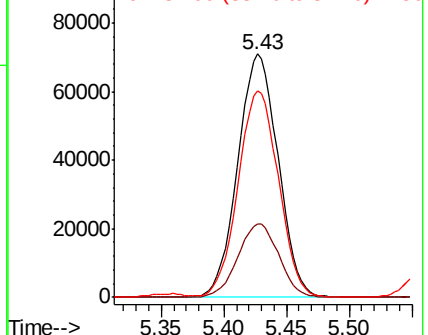
56 100

69 30.7 25.0 37.4

84 84.8 68.2 102.2



Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0



#30

1,1,1-Trichloroethane

Concen: 49.961 ug/L

RT: 5.36 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VU036715.D

Acq: 11 Feb 2020 09:52

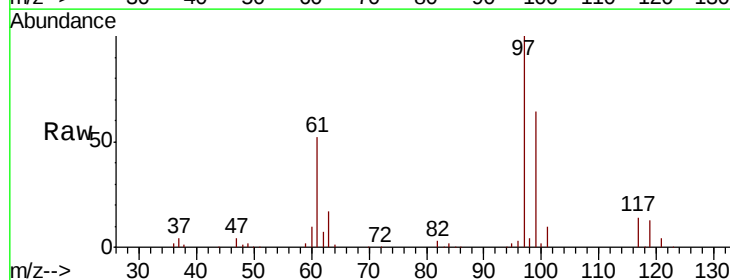
Tgt Ion: 97 Resp: 134137

Ion Ratio Lower Upper

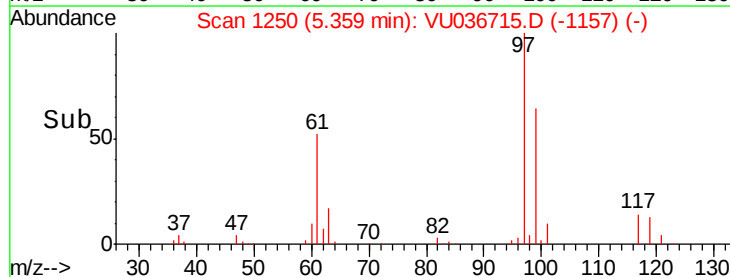
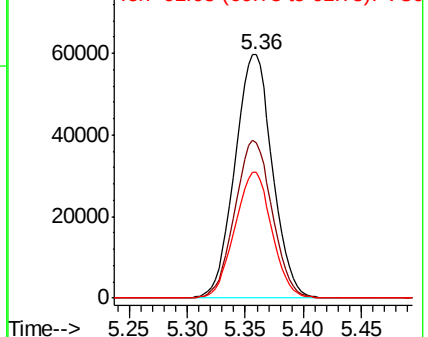
97 100

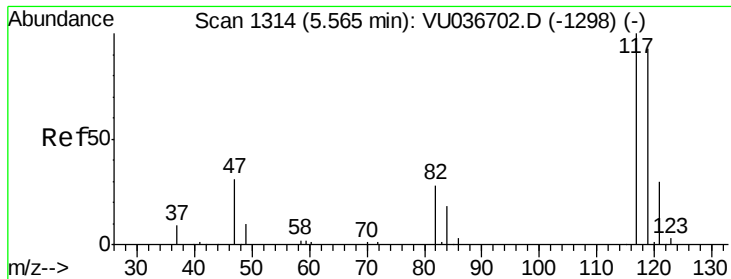
99 64.5 50.9 76.3

61 51.2 40.2 60.2



Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 61.05 (60.75 to 61.75): VU0





#31

Carbon tetrachloride

Concen: 49.176 ug/L

RT: 5.56 min Scan# 1314

Delta R.T. -0.00 min

Lab File: VU036715.D

Acq: 11 Feb 2020 09:52

Instrument :

MSVOA_U

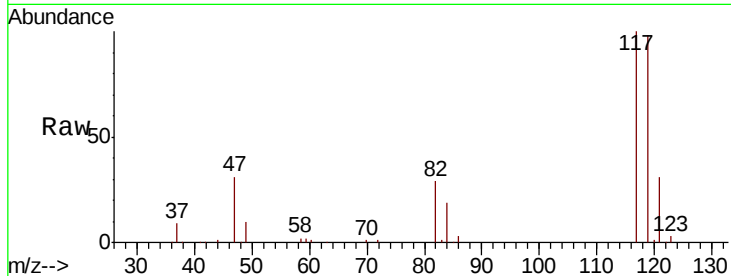
ClientSampled :

Tot Ion:117 Resp: 106905

Ion Ratio Lower Upper

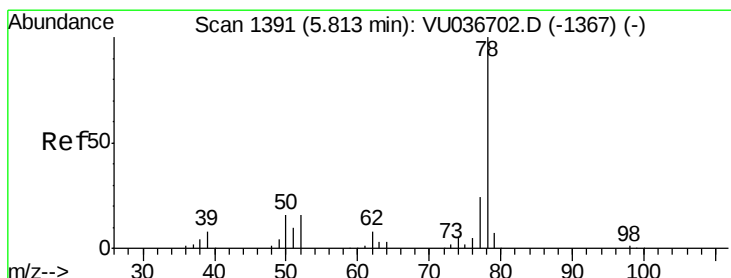
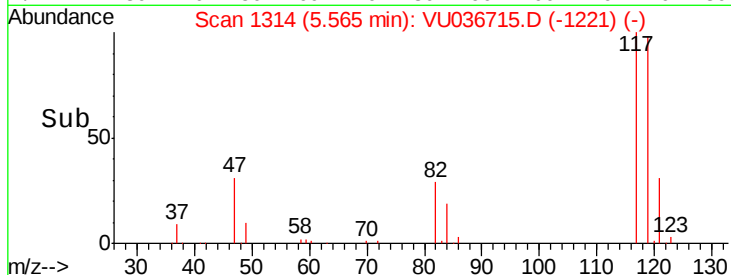
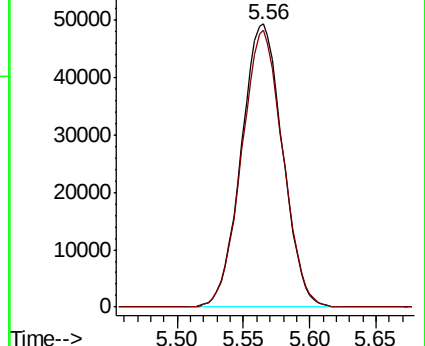
117 100

119 97.2 76.2 114.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 50.247 ug/L

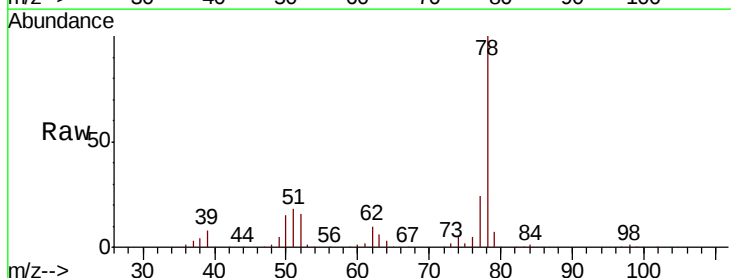
RT: 5.81 min Scan# 1391

Delta R.T. -0.00 min

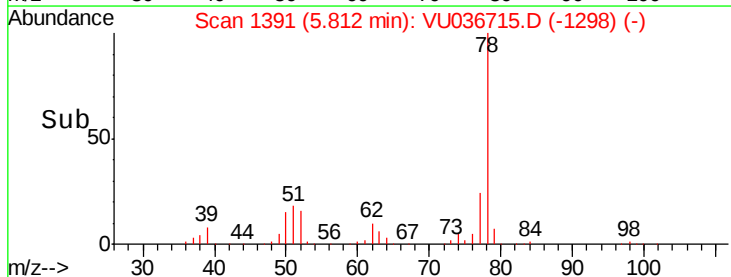
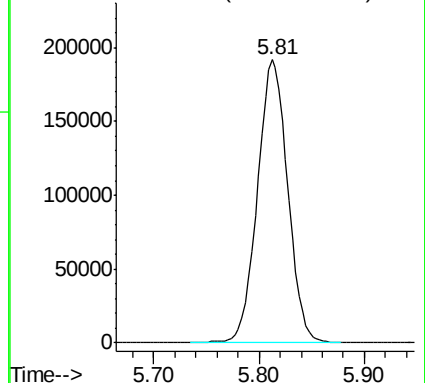
Lab File: VU036715.D

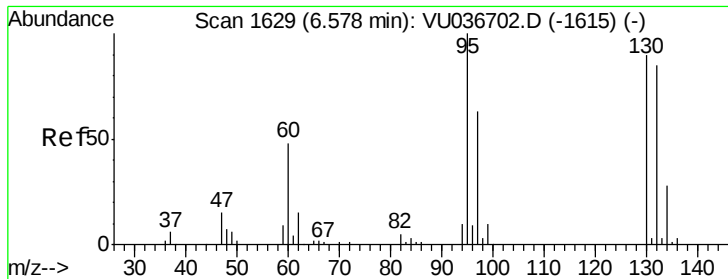
Acq: 11 Feb 2020 09:52

Tgt Ion: 78 Resp: 384125



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 50.089 ug/L

RT: 6.58 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VU036715.D

Acq: 11 Feb 2020 09:52

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 94689

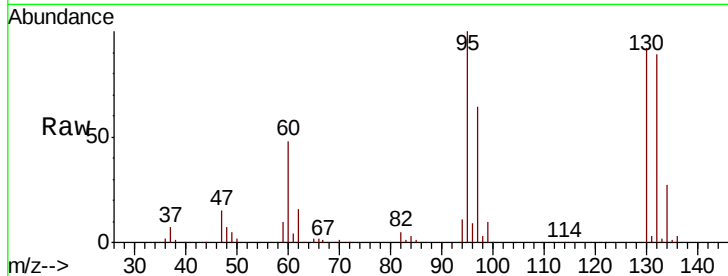
Ion Ratio Lower Upper

95 100

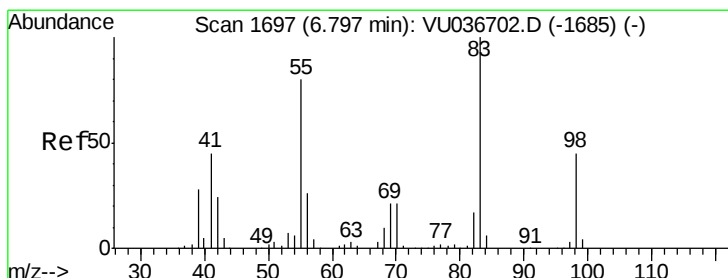
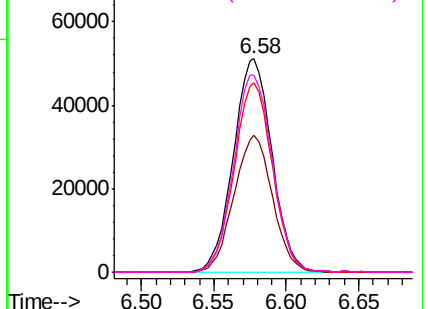
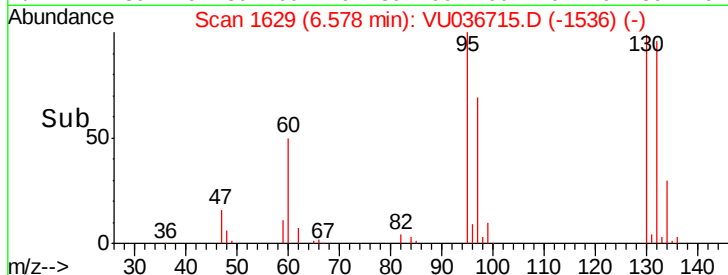
97 64.0 44.5 82.7

132 88.5 59.6 110.8

130 92.0 65.0 120.8



Abundance Ion 95.00 (94.70 to 95.70): VU036715.D (-1536) (-)



#35

Methylcyclohexane

Concen: 49.924 ug/L

RT: 6.80 min Scan# 1697

Delta R.T. -0.00 min

Lab File: VU036715.D

Acq: 11 Feb 2020 09:52

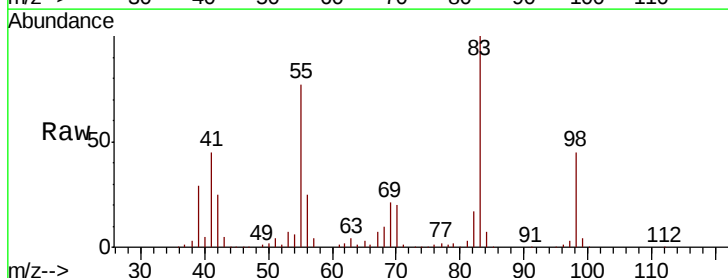
Tgt Ion: 83 Resp: 166207

Ion Ratio Lower Upper

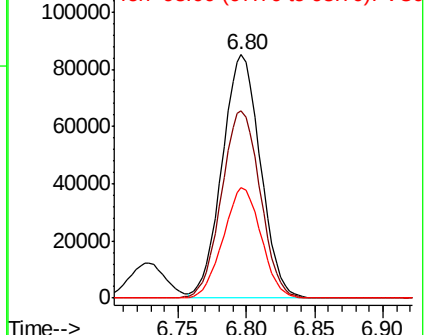
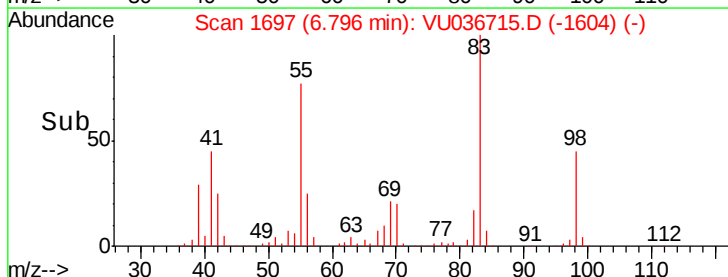
83 100

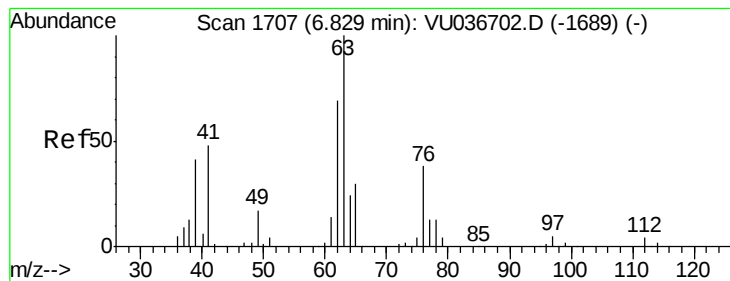
55 77.6 61.2 91.8

98 44.9 35.4 53.0



Abundance Ion 83.00 (82.70 to 83.70): VU036715.D (-1604) (-)





#37

1,2-Dichloropropane

Concen: 50.195 ug/L

RT: 6.83 min Scan# 1707

Delta R.T. -0.00 min

Lab File: VU036715.D

Acq: 11 Feb 2020 09:52

Instrument :

MSVOA_U

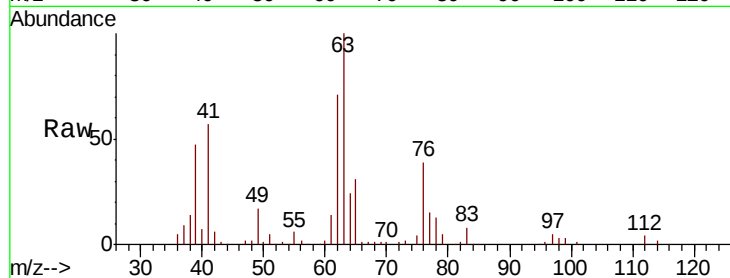
ClientSampled :

Tot Ion: 63 Resp: 103473

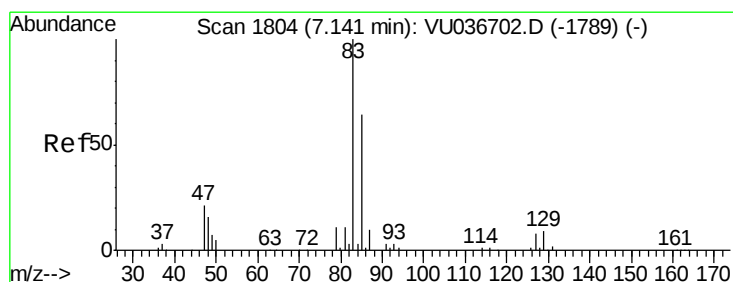
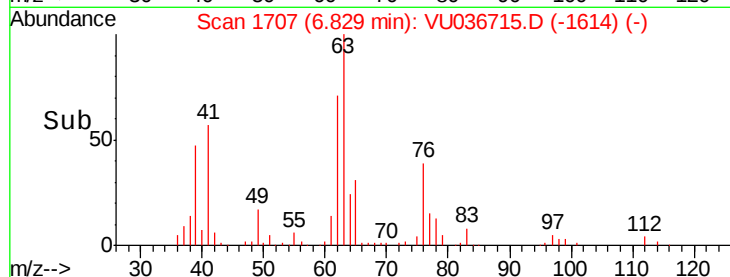
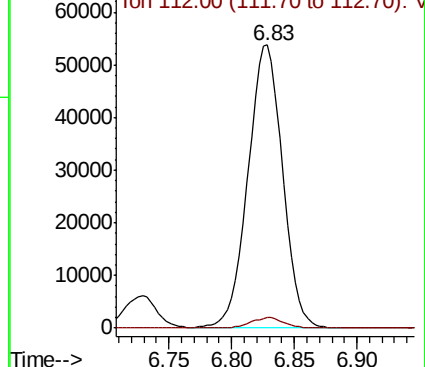
Ion Ratio Lower Upper

63 100

112 3.5 3.1 4.7



Abundance Ion 63.00 (62.70 to 63.70): VU036715.D (-1614) (-)



#38

Bromodichloromethane

Concen: 49.918 ug/L

RT: 7.14 min Scan# 1804

Delta R.T. -0.00 min

Lab File: VU036715.D

Acq: 11 Feb 2020 09:52

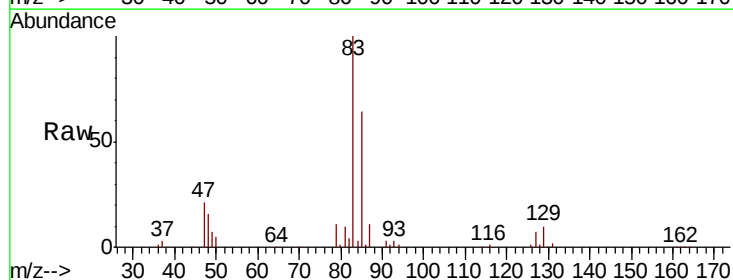
Tgt Ion: 83 Resp: 125048

Ion Ratio Lower Upper

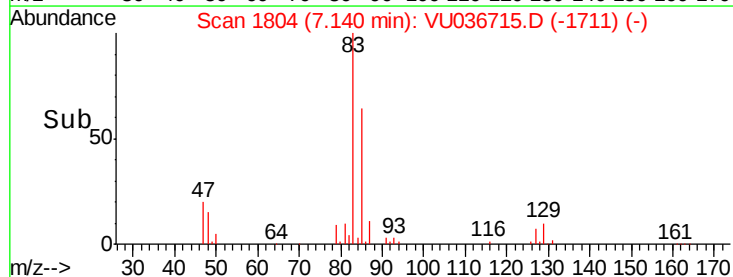
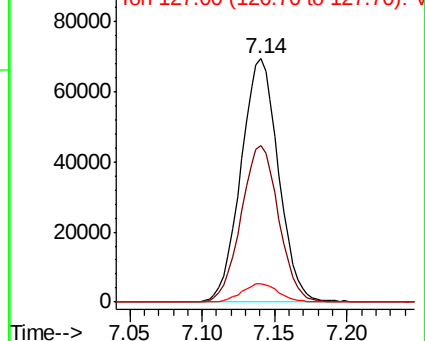
83 100

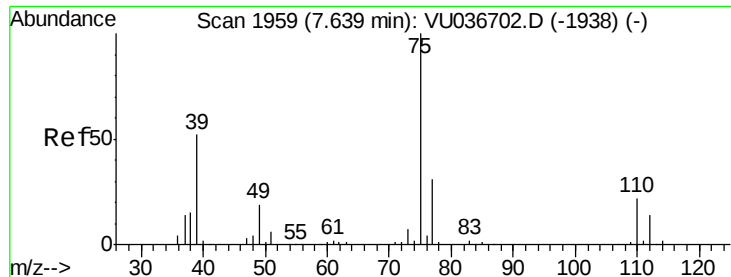
85 64.1 43.9 81.5

127 7.4 6.0 9.0



Abundance Ion 83.00 (82.70 to 83.70): VU036715.D (-1711) (-)

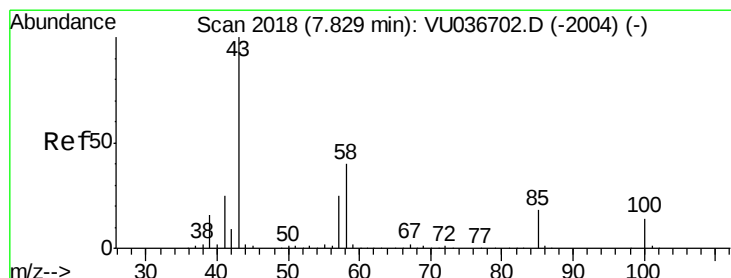
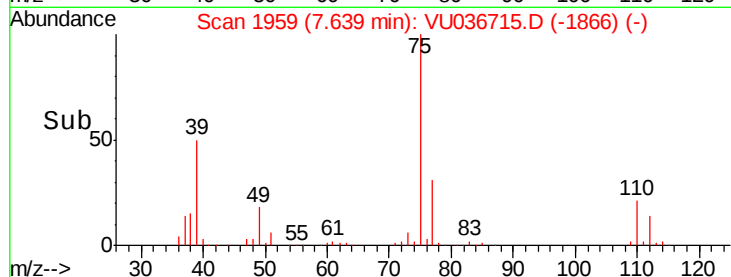
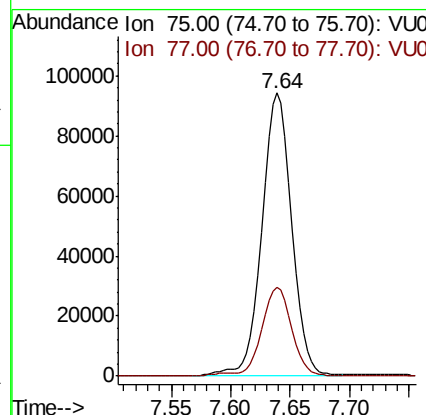
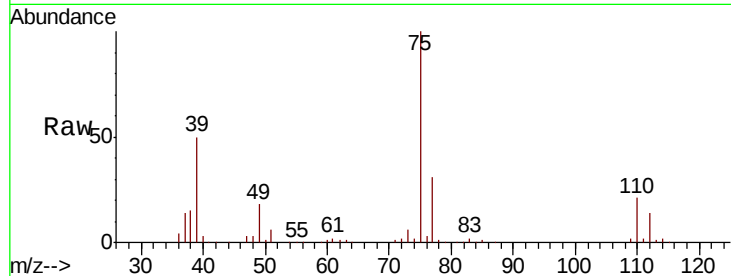




#39
 cis-1,3-Dichloropropene
 Concen: 49.838 ug/L
 RT: 7.64 min Scan# 1959
 Delta R.T. -0.00 min
 Lab File: VU036715.D
 Acq: 11 Feb 2020 09:52

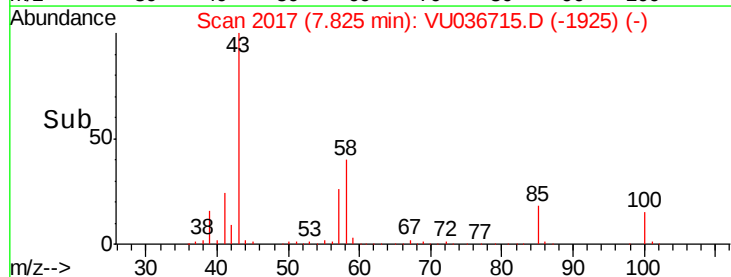
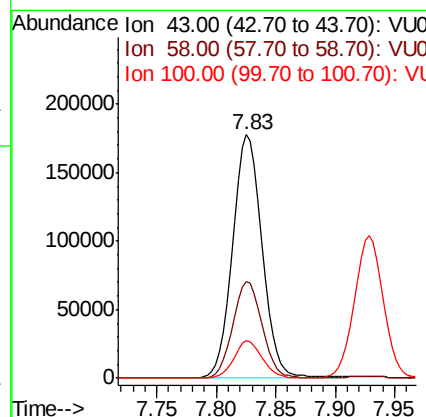
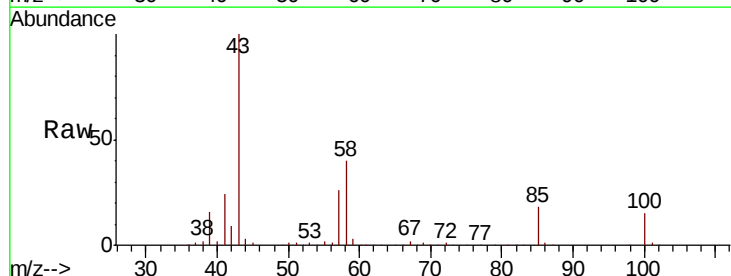
Instrument :
 MSVOA_U
 ClientSampled :

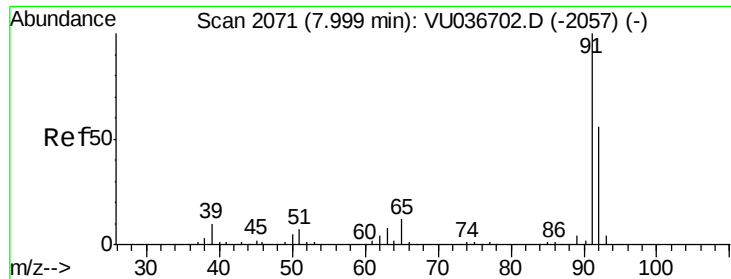
Tot Ion: 75 Resp: 164152
 Ion Ratio Lower Upper
 75 100
 77 31.2 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 93.918 ug/L
 RT: 7.83 min Scan# 2017
 Delta R.T. -0.00 min
 Lab File: VU036715.D
 Acq: 11 Feb 2020 09:52

Tgt Ion: 43 Resp: 305888
 Ion Ratio Lower Upper
 43 100
 58 39.4 31.0 46.6
 100 14.6 11.4 17.2





#42

Toluene

Concen: 50.122 ug/L

RT: 8.00 min Scan# 2071

Delta R.T. -0.00 min

Lab File: VU036715.D

Acq: 11 Feb 2020 09:52

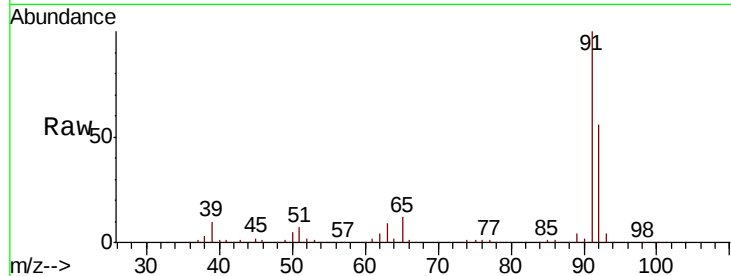
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 91 Resp: 414040

Ion Ratio Lower Upper

91 100

92 56.5 39.5 73.3



Abundance Ion 91.00 (90.70 to 91.70): VU036715.D (-1978) (-)

Ion 92.00 (91.70 to 92.70): VU036715.D (-1978) (-)

8.00

250000

200000

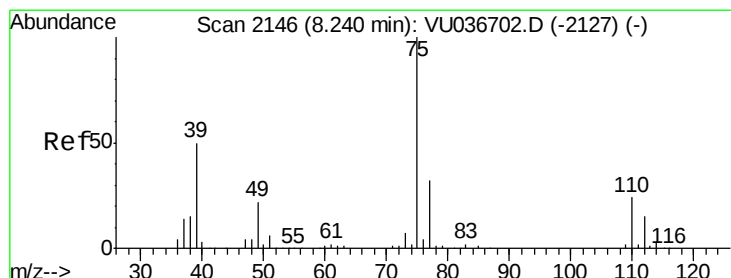
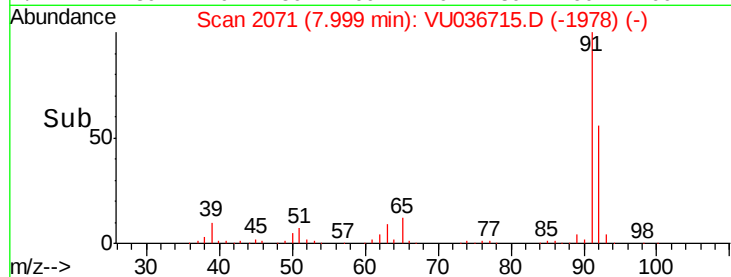
150000

100000

50000

0

Time--> 7.90 7.95 8.00 8.05 8.10



#44

trans-1,3-Dichloropropene

Concen: 49.566 ug/L

RT: 8.24 min Scan# 2146

Delta R.T. -0.00 min

Lab File: VU036715.D

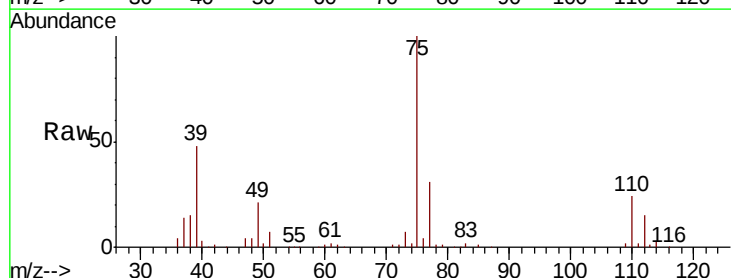
Acq: 11 Feb 2020 09:52

Tgt Ion: 75 Resp: 142621

Ion Ratio Lower Upper

75 100

77 31.1 22.6 42.0



Abundance Ion 75.00 (74.70 to 75.70): VU036715.D (-2053) (-)

Ion 77.00 (76.70 to 77.70): VU036715.D (-2053) (-)

8.24

100000

80000

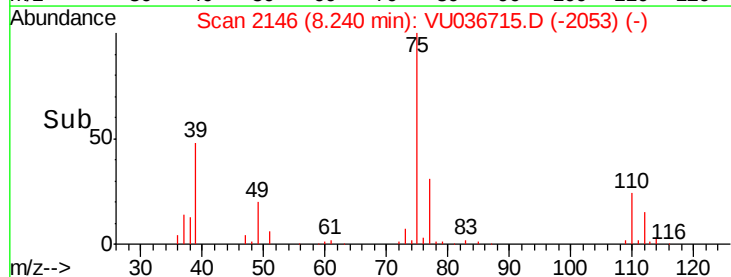
60000

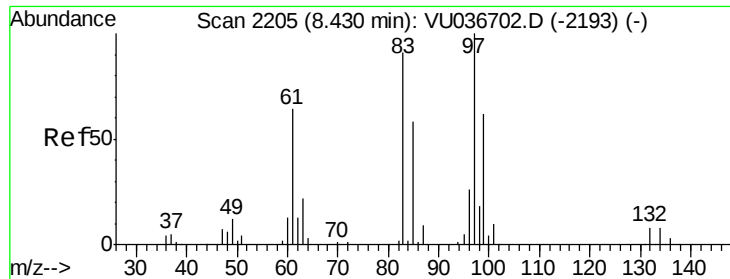
40000

20000

0

Time--> 8.15 8.20 8.25 8.30

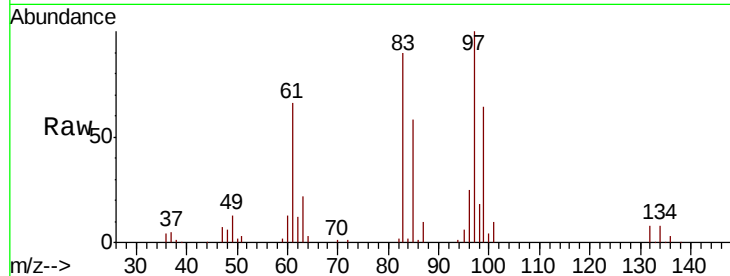




#45
 1,1,2-Trichloroethane
 Concen: 49.112 ug/L
 RT: 8.43 min Scan# 2205
 Delta R.T. -0.00 min
 Lab File: VU036715.D
 Acq: 11 Feb 2020 09:52

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	97	Resp:	92359
Ion	Ratio	Lower	Upper
97	100		
99	64.2	42.6	79.0
83	90.4	61.1	113.5
85	58.1	40.4	75.0



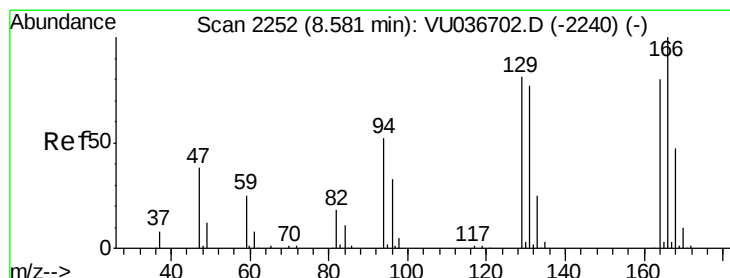
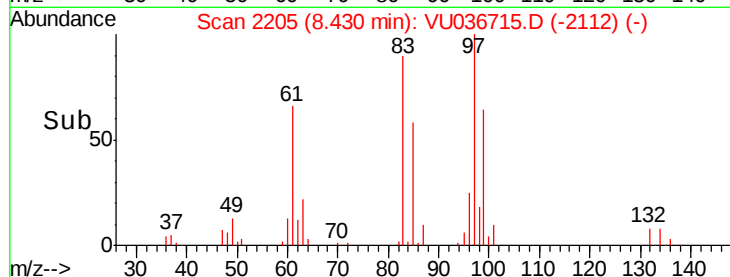
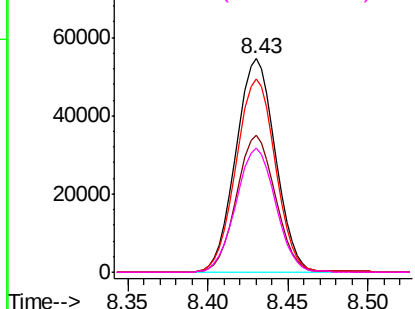
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

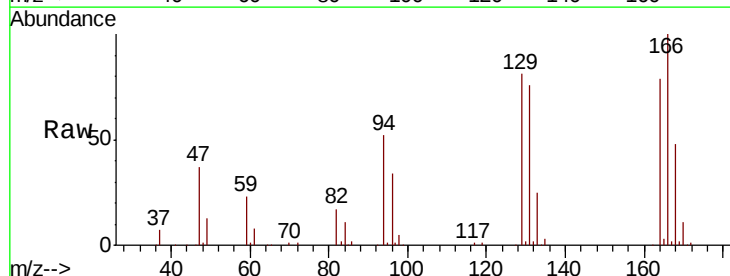
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 48.583 ug/L
 RT: 8.58 min Scan# 2252
 Delta R.T. -0.00 min
 Lab File: VU036715.D
 Acq: 11 Feb 2020 09:52

Tgt Ion:	164	Resp:	64450
Ion	Ratio	Lower	Upper
164	100		
129	101.9	71.0	131.9
131	95.7	66.6	123.6
166	126.0	86.4	160.4



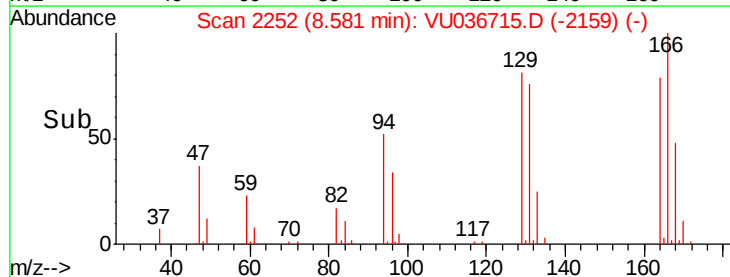
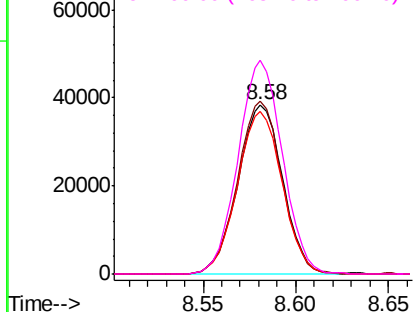
Abundance

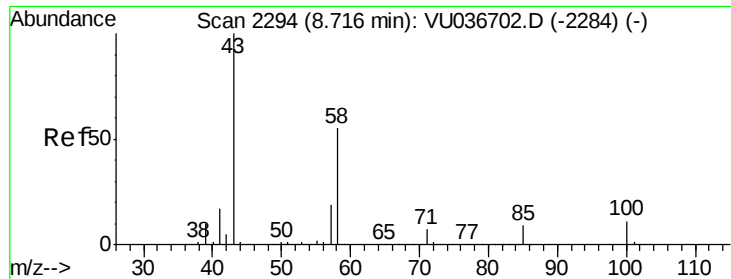
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

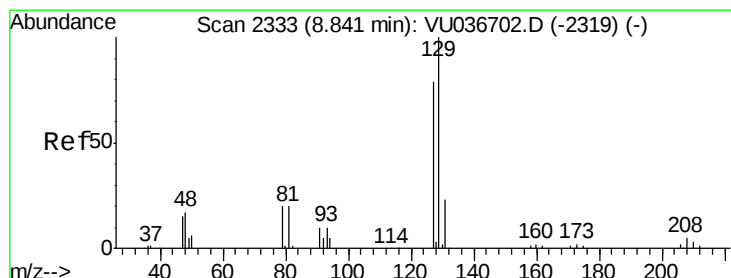
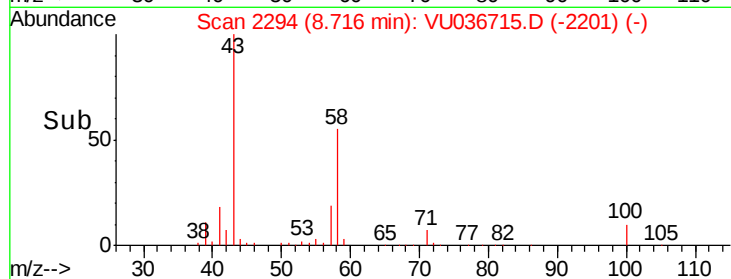
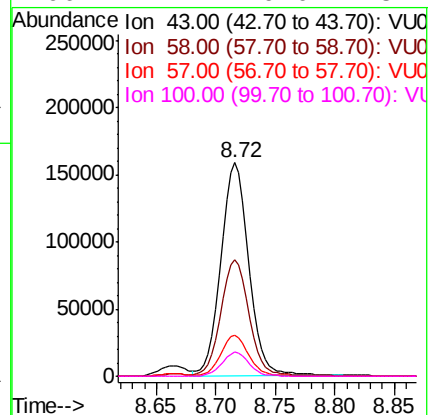
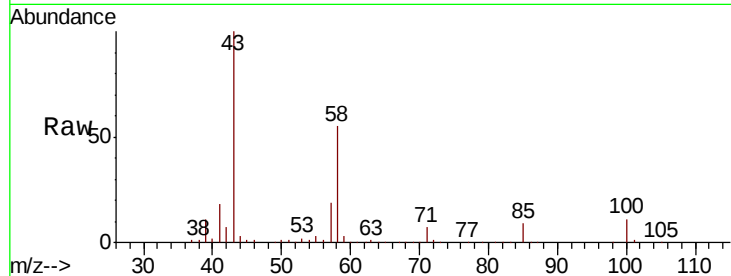




#48
2-Hexanone
Concen: 96.812 ug/L
RT: 8.72 min Scan# 2294
Delta R.T. -0.00 min
Lab File: VU036715.D
Acq: 11 Feb 2020 09:52

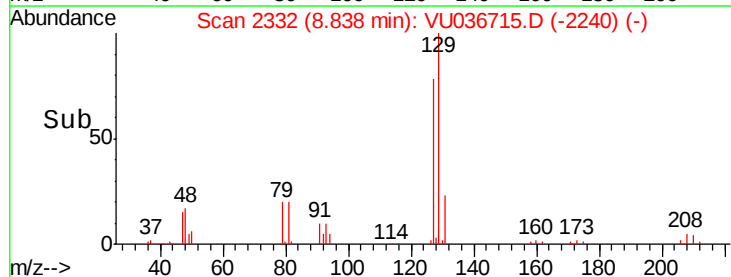
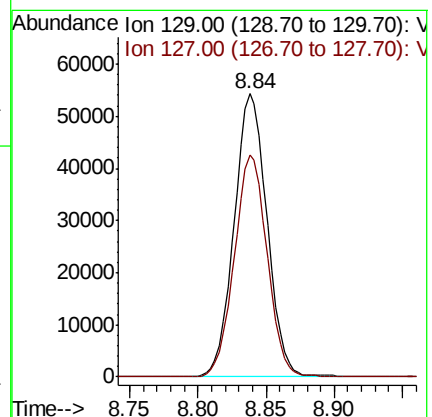
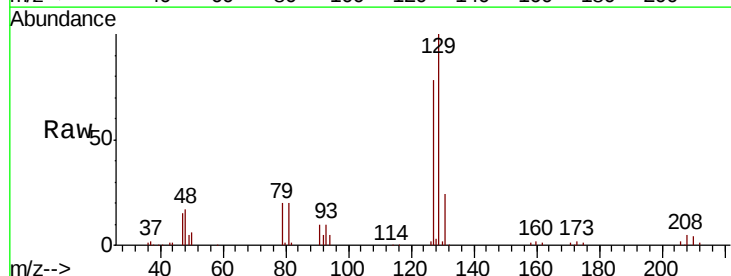
Instrument :
MSVOA_U
ClientSampleId :

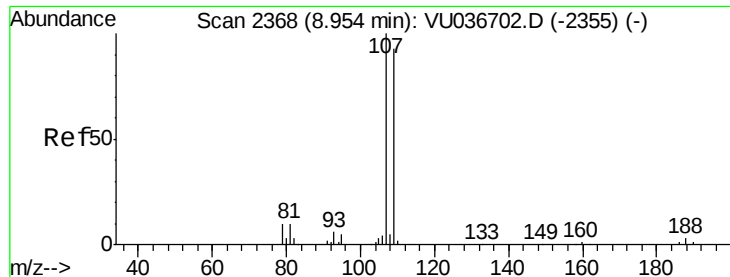
Tot Ion: 43 Resp: 257218
Ion Ratio Lower Upper
43 100
58 55.5 43.6 65.4
57 19.3 15.5 23.3
100 11.1 9.0 13.4



#49
Dibromochloromethane
Concen: 49.454 ug/L
RT: 8.84 min Scan# 2332
Delta R.T. -0.00 min
Lab File: VU036715.D
Acq: 11 Feb 2020 09:52

Tgt Ion: 129 Resp: 90964
Ion Ratio Lower Upper
129 100
127 78.3 53.6 99.6

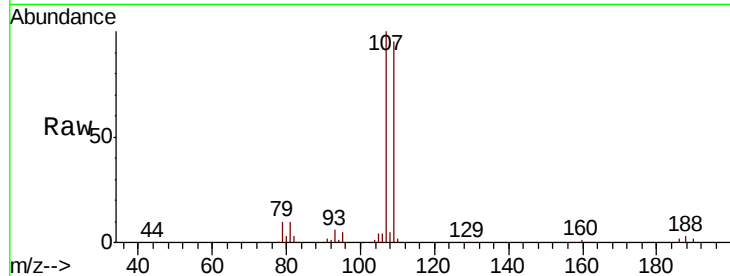




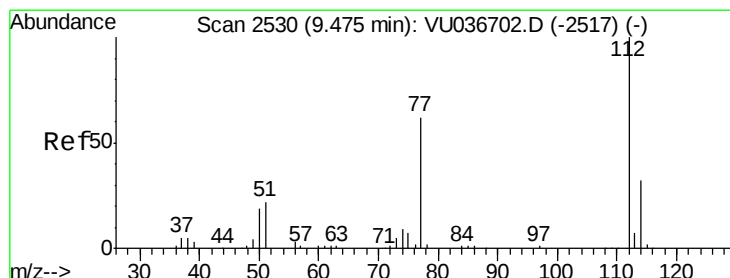
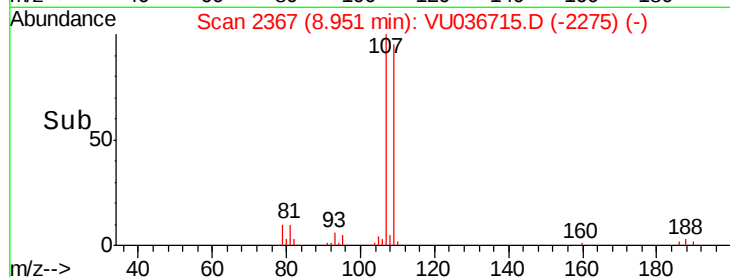
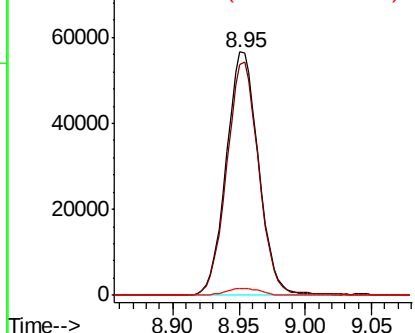
#50
 1,2-Dibromoethane
 Concen: 48.598 ug/L
 RT: 8.95 min Scan# 2367
 Delta R.T. -0.00 min
 Lab File: VU036715.D
 Acq: 11 Feb 2020 09:52

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:107 Resp: 96013
 Ion Ratio Lower Upper
 107 100
 109 94.9 65.8 122.2
 188 3.0 2.5 3.7

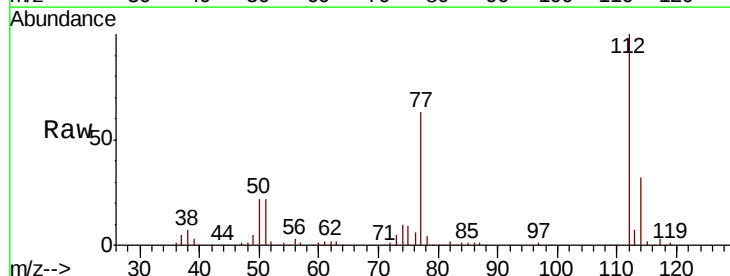


Abundance Ion 107.00 (106.70 to 107.70): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 188.00 (187.70 to 188.70): V

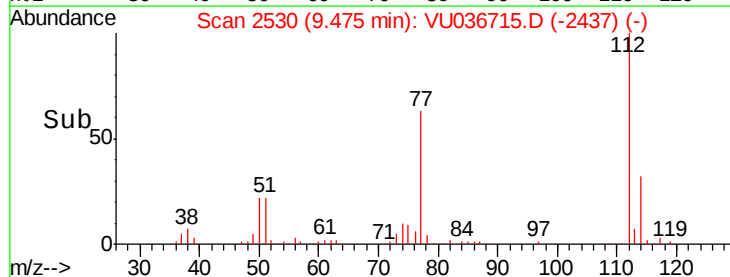
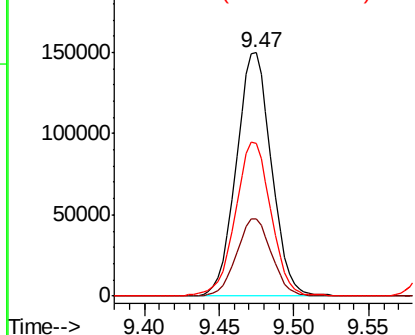


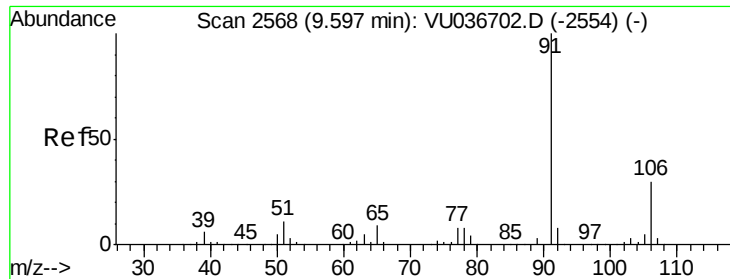
#51
 Chlorobenzene
 Concen: 49.337 ug/L
 RT: 9.47 min Scan# 2530
 Delta R.T. -0.00 min
 Lab File: VU036715.D
 Acq: 11 Feb 2020 09:52

Tgt Ion:112 Resp: 245405
 Ion Ratio Lower Upper
 112 100
 114 31.7 22.7 42.1
 77 62.7 50.6 75.8



Abundance Ion 112.00 (111.70 to 112.70): V
 Ion 114.00 (113.70 to 114.70): V
 Ion 77.00 (76.70 to 77.70): VU





#52

Ethylbenzene

Concen: 49.668 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. -0.00 min

Lab File: VU036715.D

Acq: 11 Feb 2020 09:52

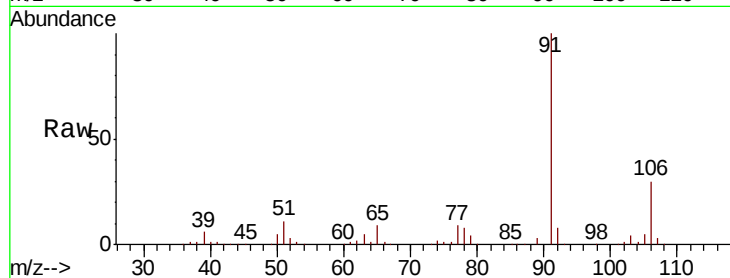
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 450823

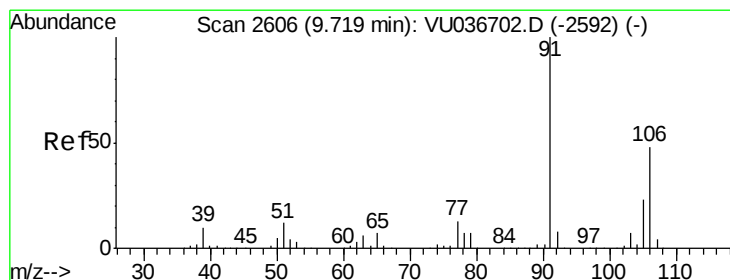
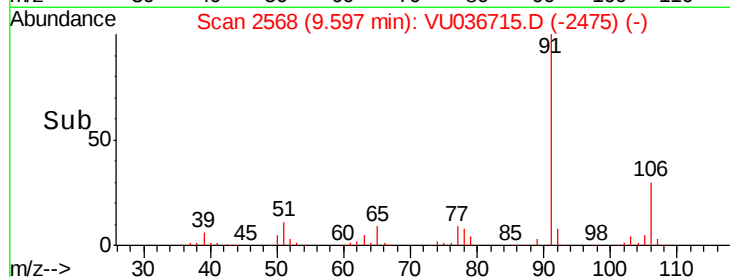
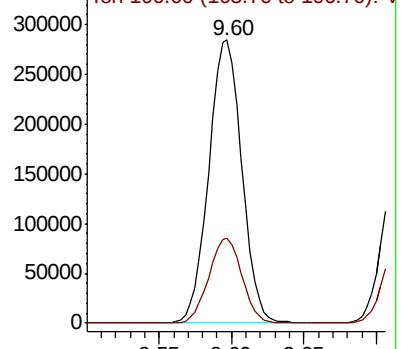
Ion Ratio Lower Upper

91 100

106 30.0 21.3 39.6



Abundance Ion 91.00 (90.70 to 91.70): VU036715.D (-2475) (-)



#53

m,p-Xylene

Concen: 50.166 ug/L

RT: 9.72 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VU036715.D

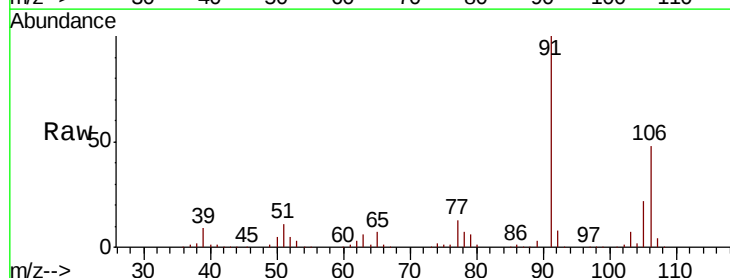
Acq: 11 Feb 2020 09:52

Tgt Ion: 106 Resp: 167978

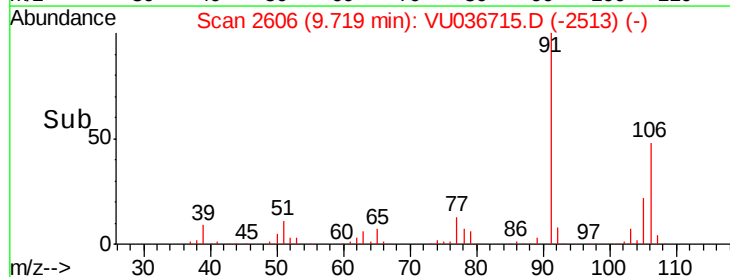
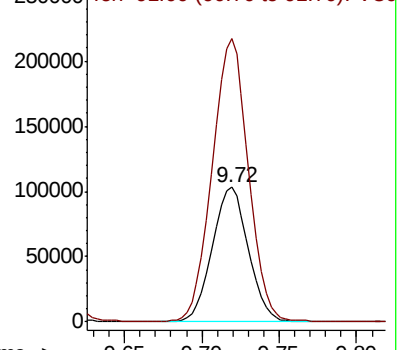
Ion Ratio Lower Upper

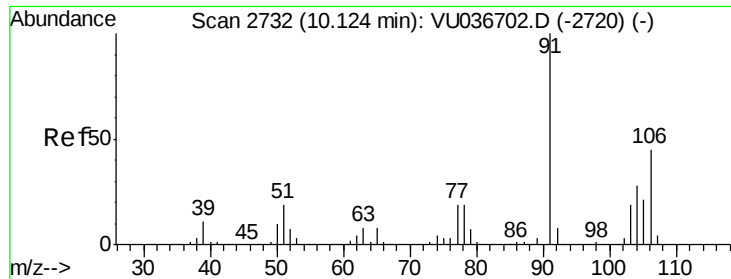
106 100

91 209.9 145.9 270.9



Abundance Ion 106.00 (105.70 to 106.70): VU036715.D (-2513) (-)





#54

o-xylene

Concen: 49.717 ug/L

RT: 10.12 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VU036715.D

Acq: 11 Feb 2020 09:52

Instrument :

MSVOA_U

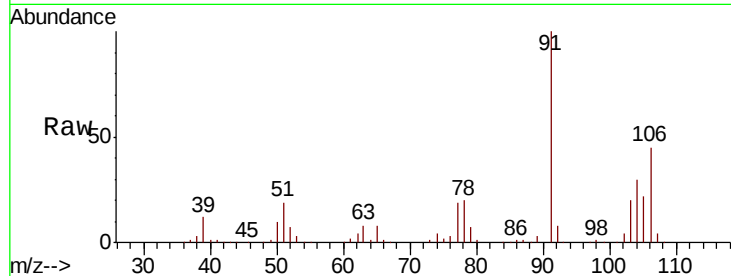
ClientSampled :

Tot Ion:106 Resp: 164914

Ion Ratio Lower Upper

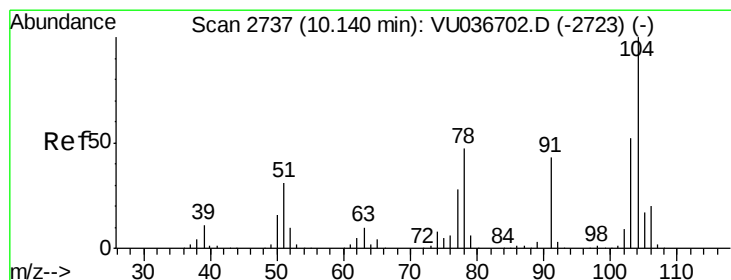
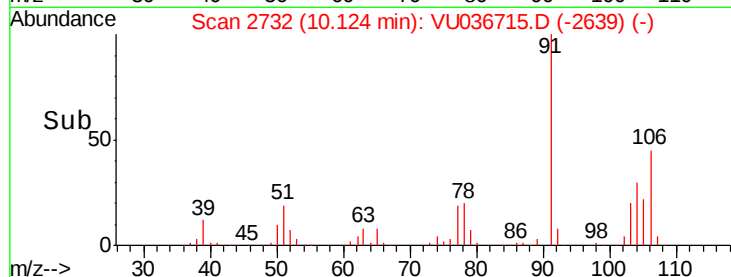
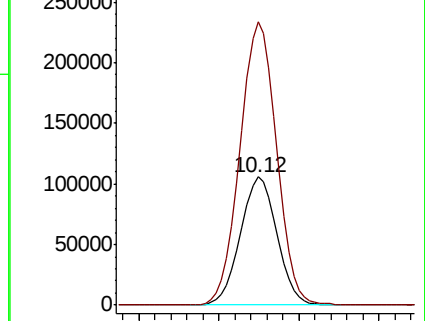
106 100

91 220.5 156.0 289.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 50.522 ug/L

RT: 10.14 min Scan# 2736

Delta R.T. -0.00 min

Lab File: VU036715.D

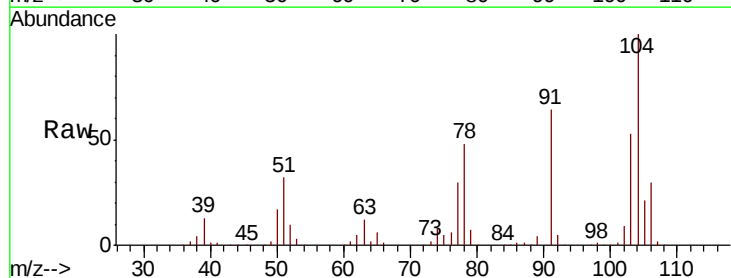
Acq: 11 Feb 2020 09:52

Tgt Ion:104 Resp: 279296

Ion Ratio Lower Upper

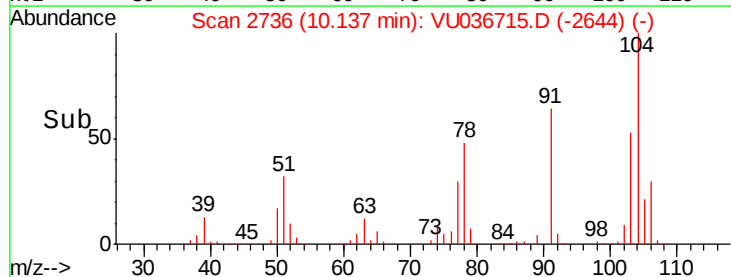
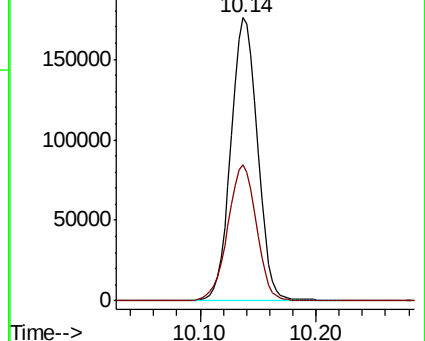
104 100

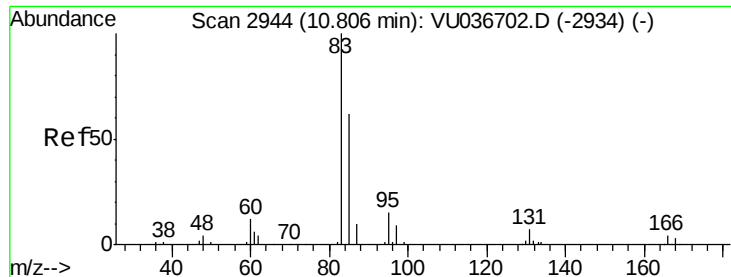
78 48.2 33.7 62.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0

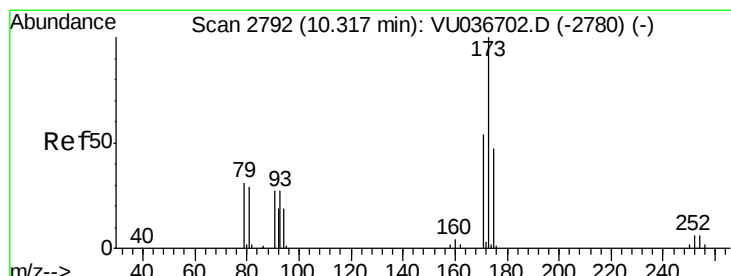
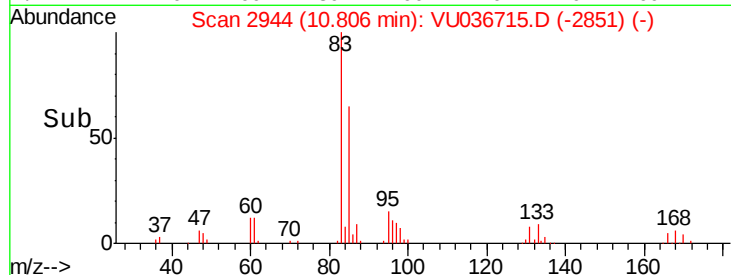
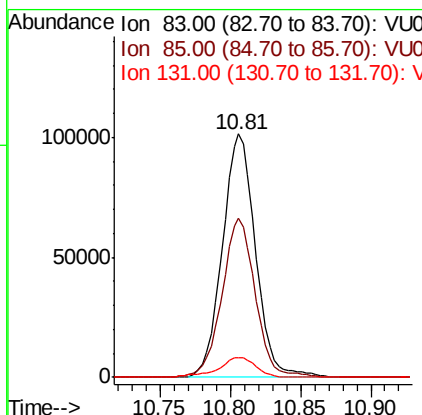
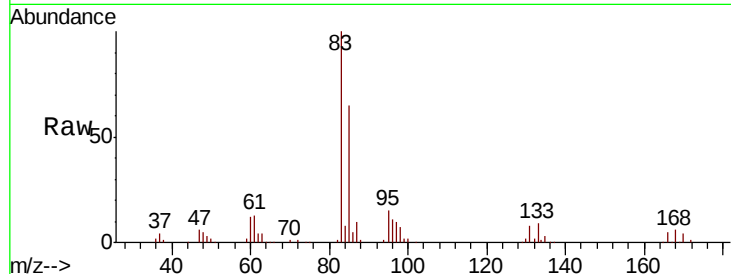




#57
 1,1,2,2-Tetrachloroethane
 Concen: 48.963 ug/L
 RT: 10.81 min Scan# 2944
 Delta R.T. -0.00 min
 Lab File: VU036715.D
 Acq: 11 Feb 2020 09:52

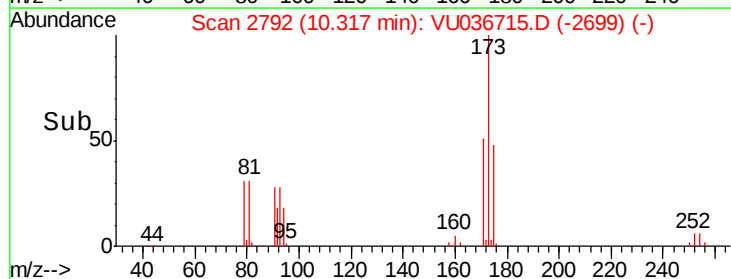
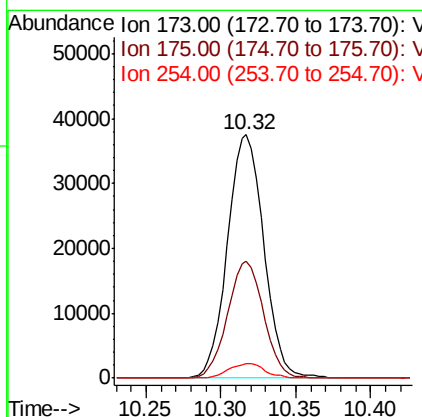
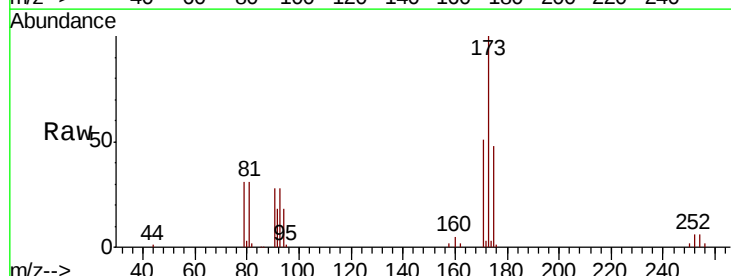
Instrument :
 MSVOA_U
 ClientSampled :

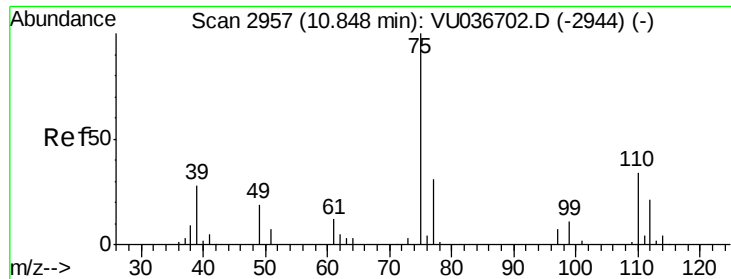
Tot Ion	83	Resp	165923
Ion	Ratio	Lower	Upper
83	100		
85	65.3	44.7	82.9
131	8.3	6.8	10.2



#59
 Bromoform
 Concen: 49.885 ug/L
 RT: 10.32 min Scan# 2792
 Delta R.T. -0.00 min
 Lab File: VU036715.D
 Acq: 11 Feb 2020 09:52

Tgt Ion	173	Resp	63349
Ion	Ratio	Lower	Upper
173	100		
175	47.5	38.2	57.4
254	5.9	4.8	7.2

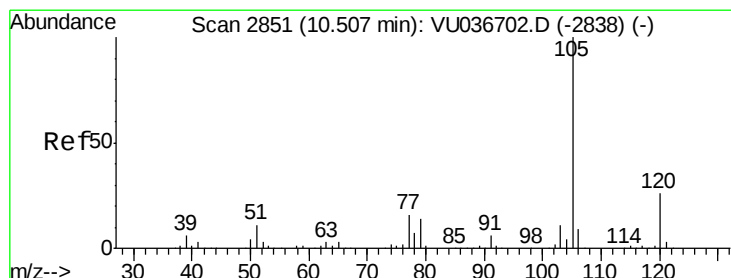
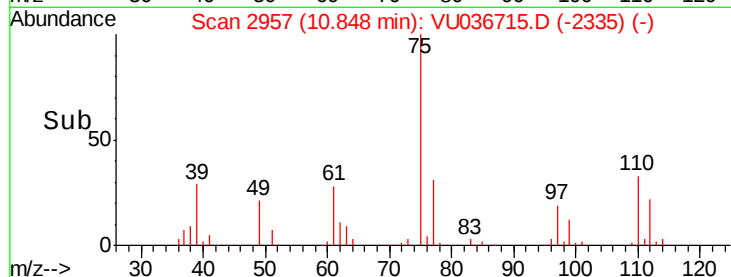
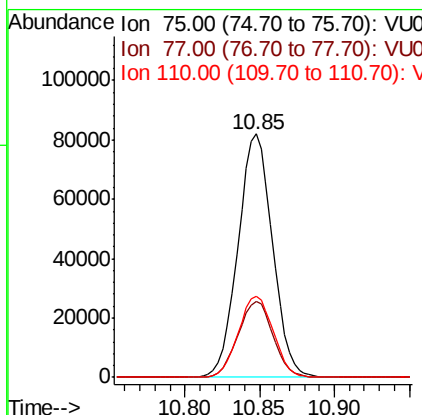
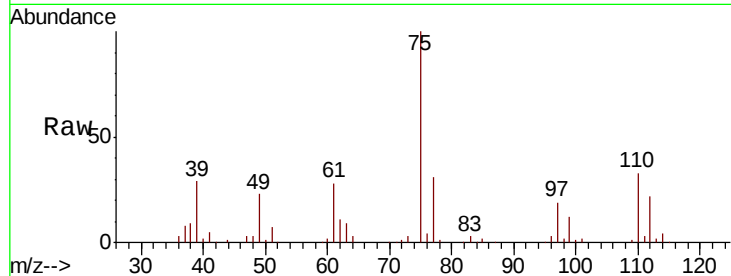




#60
1,2,3-Trichloropropane
Concen: 48.680 ug/L
RT: 10.85 min Scan# 2957
Delta R.T. -0.00 min
Lab File: VU036715.D
Acq: 11 Feb 2020 09:52

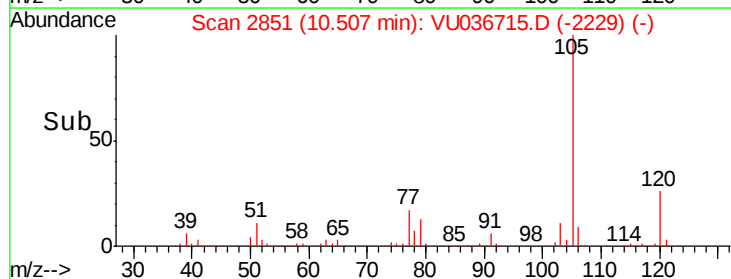
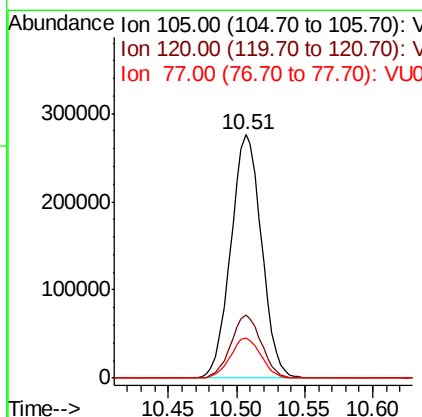
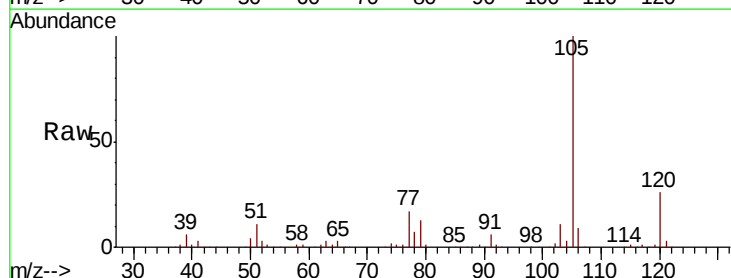
Instrument :
MSVOA_U
ClientSampled :

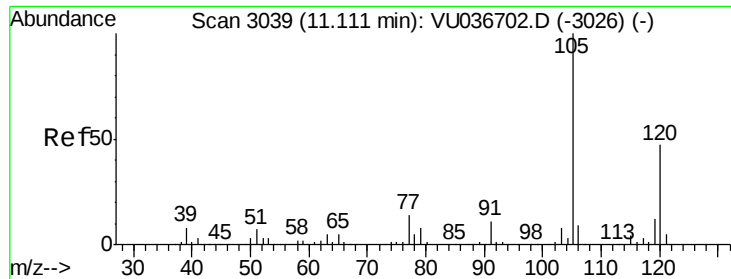
Tot Ion	Ratio	Lower	Upper
75	100		
77	31.8	26.1	39.1
110	33.7	26.9	40.3



#61
Isopropylbenzene
Concen: 50.437 ug/L
RT: 10.51 min Scan# 2851
Delta R.T. -0.00 min
Lab File: VU036715.D
Acq: 11 Feb 2020 09:52

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.6	20.2	30.4
77	16.4	13.0	19.6





#62

1,3,5-Trimethylbenzene

Concen: 50.853 ug/L

RT: 11.11 min Scan# 3038

Delta R.T. -0.00 min

Lab File: VU036715.D

Acq: 11 Feb 2020 09:52

Instrument :

MSVOA_U

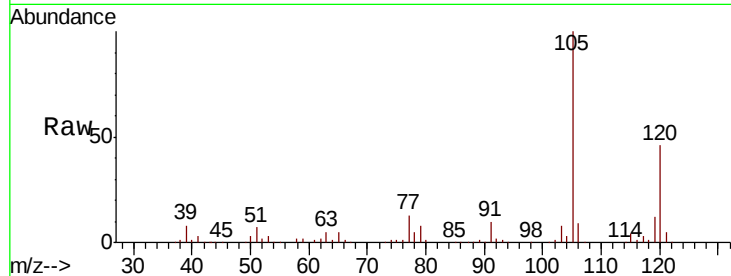
ClientSampled :

Tot Ion:105 Resp: 373155

Ion Ratio Lower Upper

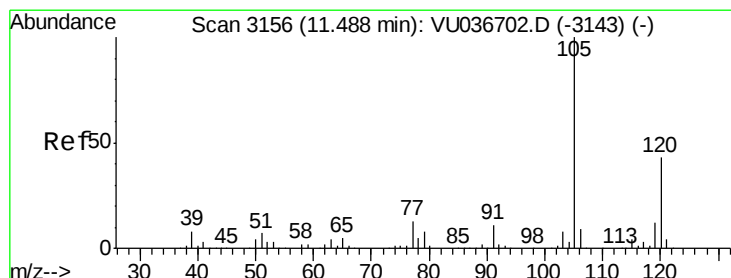
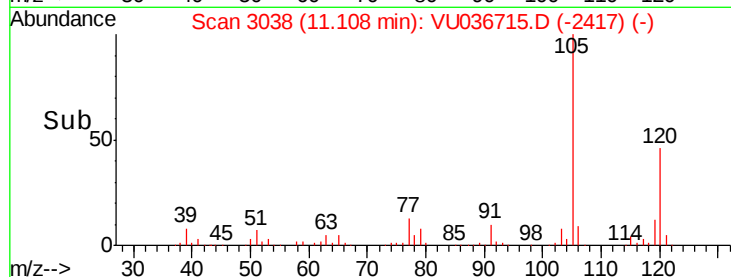
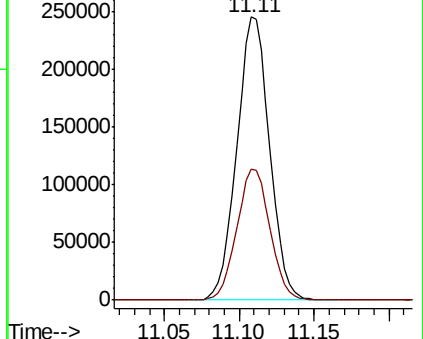
105 100

120 47.0 37.1 55.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#63

1,2,4-Trimethylbenzene

Concen: 50.369 ug/L

RT: 11.49 min Scan# 3156

Delta R.T. -0.00 min

Lab File: VU036715.D

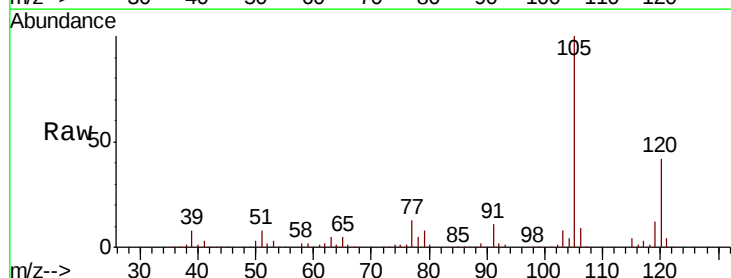
Acq: 11 Feb 2020 09:52

Tgt Ion:105 Resp: 369066

Ion Ratio Lower Upper

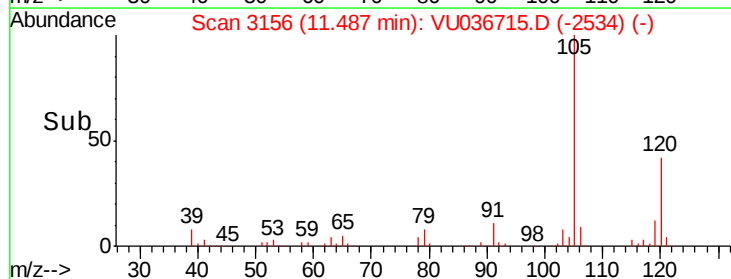
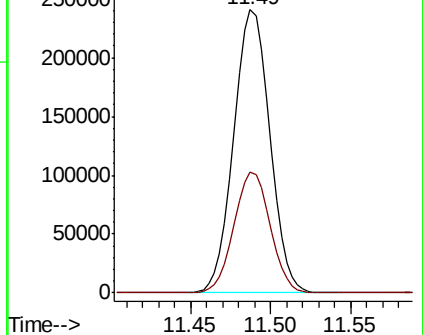
105 100

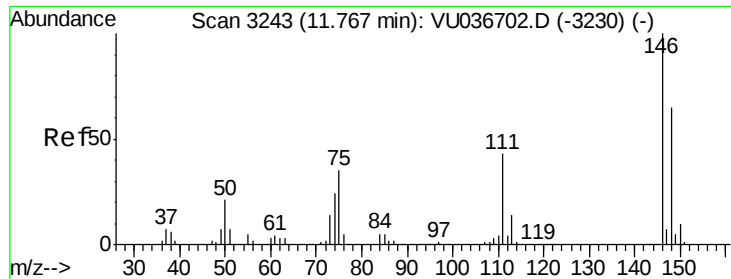
120 42.9 34.7 52.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

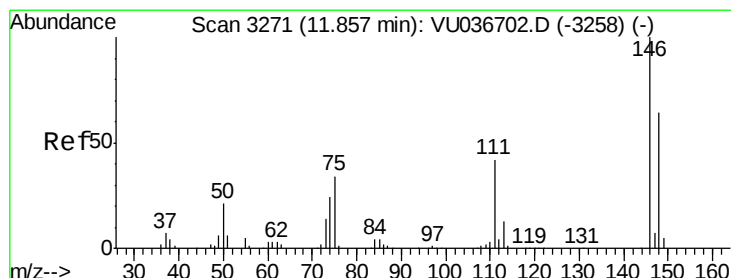
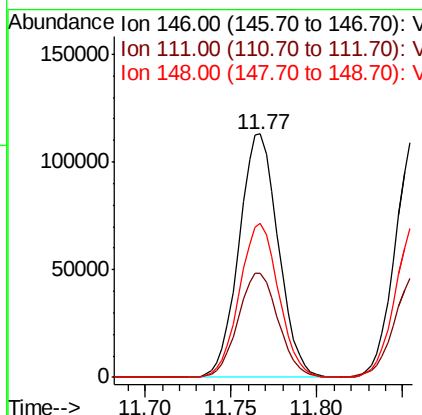
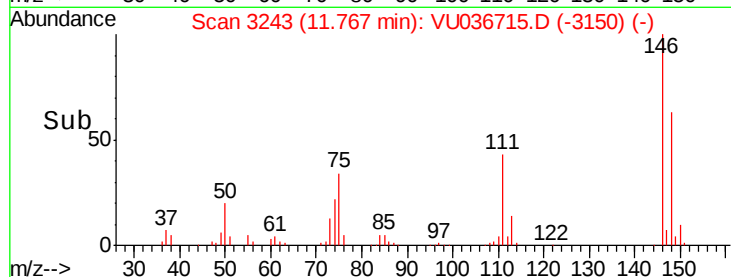
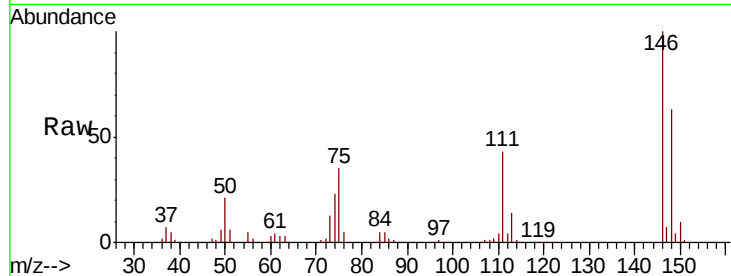




#64
 1,3-Dichlorobenzene
 Concen: 49.733 ug/L
 RT: 11.77 min Scan# 3243
 Delta R.T. -0.00 min
 Lab File: VU036715.D
 Acq: 11 Feb 2020 09:52

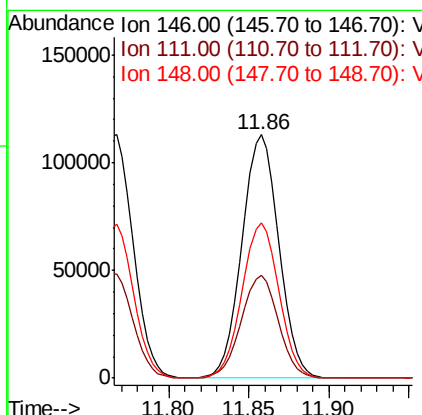
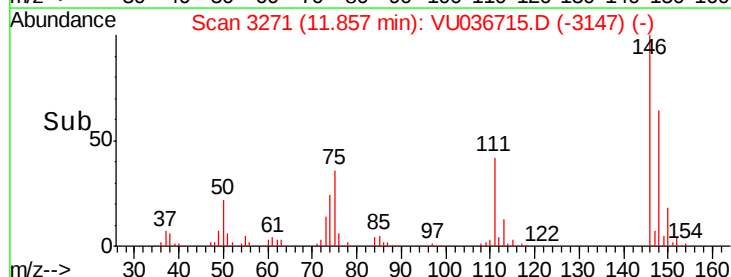
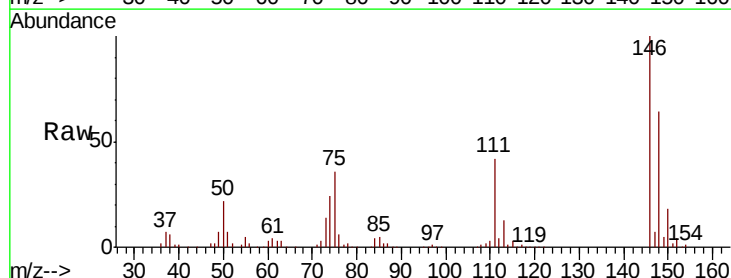
Instrument :
 MSVOA_U
 ClientSampleId :

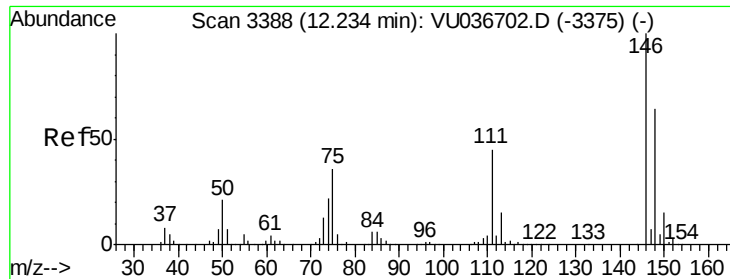
Tot Ion:146 Resp: 179007
 Ion Ratio Lower Upper
 146 100
 111 42.9 30.4 56.4
 148 63.0 44.5 82.7



#65
 1,4-Dichlorobenzene
 Concen: 48.971 ug/L
 RT: 11.86 min Scan# 3271
 Delta R.T. -0.00 min
 Lab File: VU036715.D
 Acq: 11 Feb 2020 09:52

Tgt Ion:146 Resp: 177457
 Ion Ratio Lower Upper
 146 100
 111 42.2 29.3 54.3
 148 63.6 44.8 83.2





#67

1,2-Dichlorobenzene

Concen: 48.975 ug/L

RT: 12.23 min Scan# 3388

Delta R.T. -0.00 min

Lab File: VU036715.D

Acq: 11 Feb 2020 09:52

Instrument :

MSVOA_U

ClientSampled :

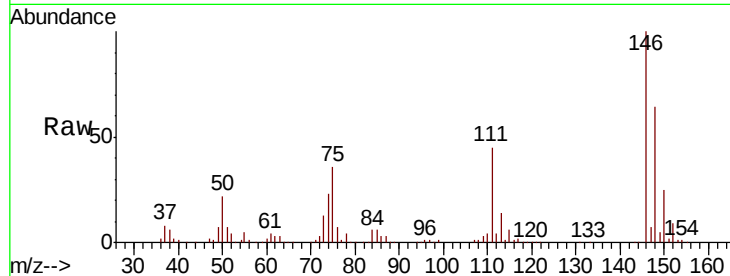
Tot Ion:146 Resp: 178477

Ion Ratio Lower Upper

146 100

111 44.6 35.4 53.0

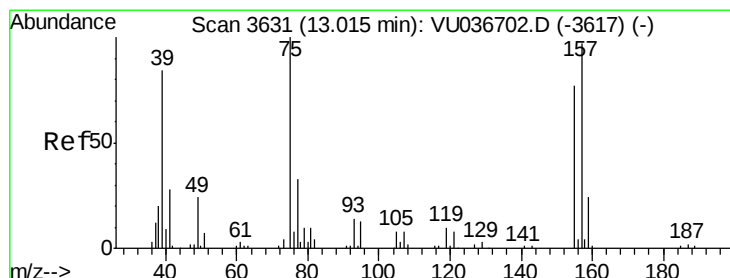
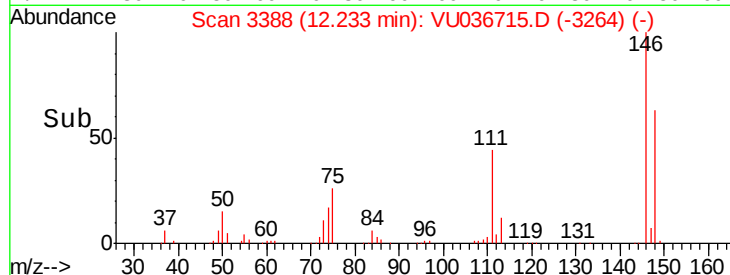
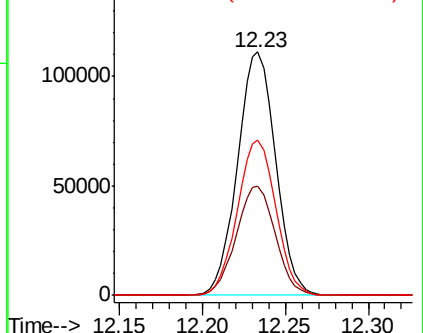
148 63.7 50.4 75.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#68

1,2-Dibromo-3-chloropropane

Concen: 46.096 ug/L

RT: 13.01 min Scan# 3631

Delta R.T. -0.00 min

Lab File: VU036715.D

Acq: 11 Feb 2020 09:52

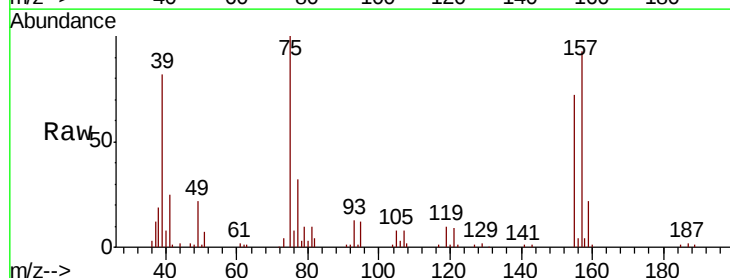
Tgt Ion: 75 Resp: 35617

Ion Ratio Lower Upper

75 100

155 72.5 58.7 88.1

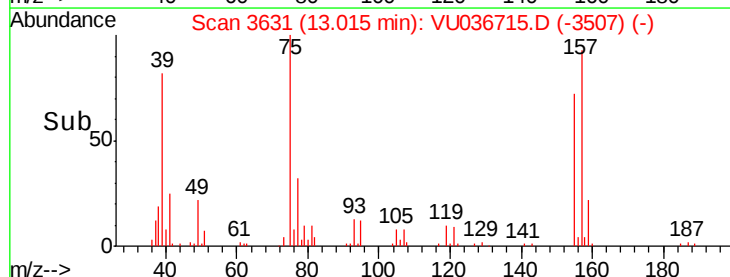
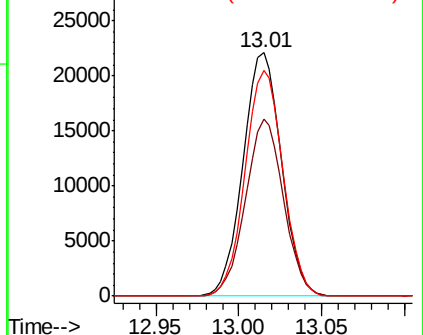
157 92.8 77.8 116.6

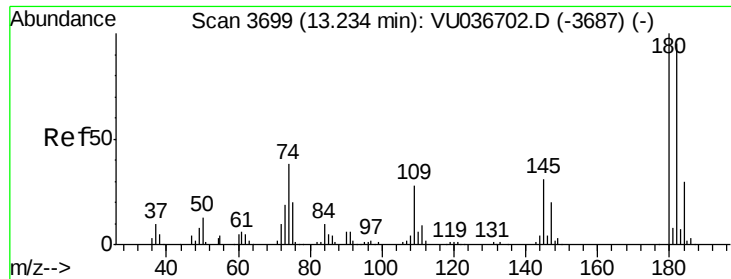


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

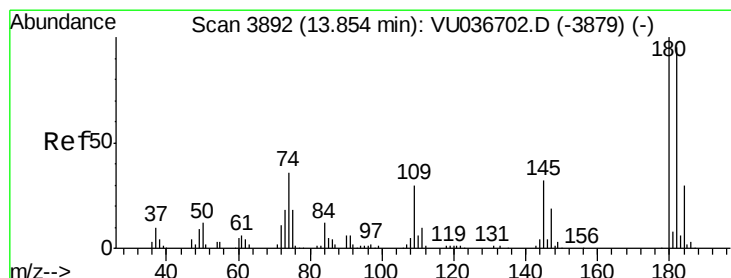
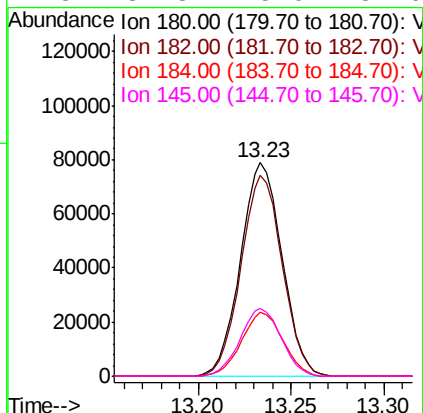
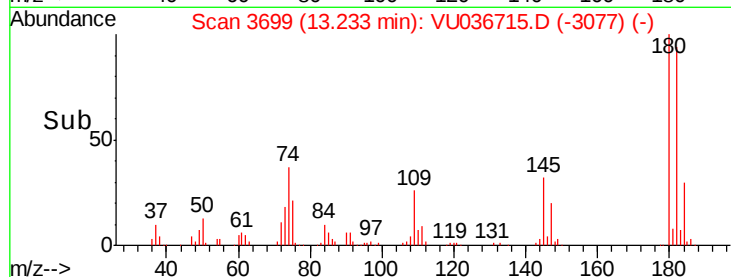
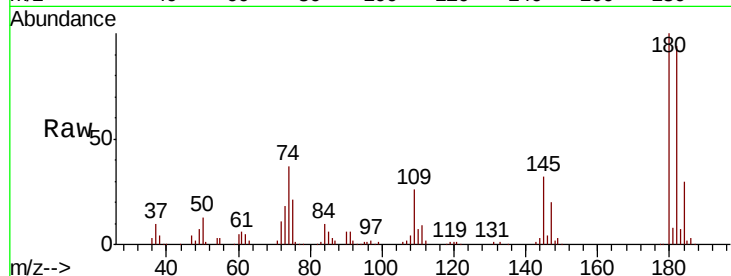




#69
 1,3,5-Trichlorobenzene
 Concen: 49.038 ug/L
 RT: 13.23 min Scan# 3699
 Delta R.T. -0.00 min
 Lab File: VU036715.D
 Acq: 11 Feb 2020 09:52

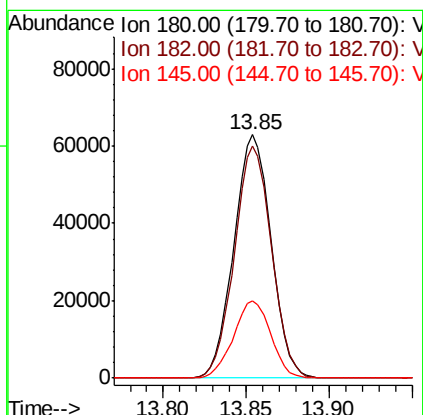
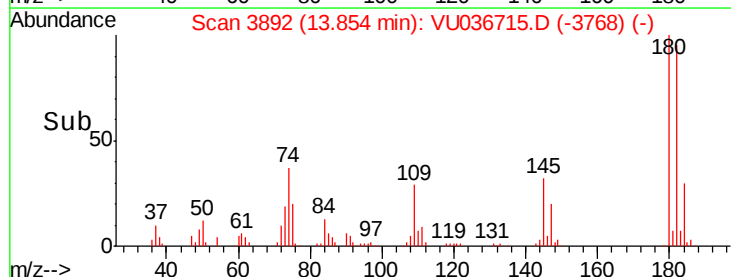
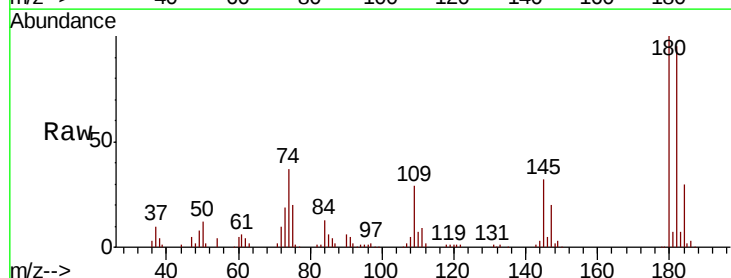
Instrument :
 MSVOA_U
 ClientSampleId :

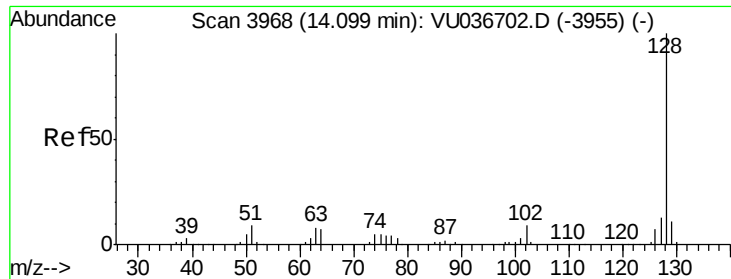
Tot Ion	Ratio	Lower	Upper
180	100		
182	93.6	76.2	114.4
184	29.9	23.8	35.6
145	31.3	25.0	37.6



#70
 1,2,4-trichlorobenzene
 Concen: 47.185 ug/L
 RT: 13.85 min Scan# 3892
 Delta R.T. -0.00 min
 Lab File: VU036715.D
 Acq: 11 Feb 2020 09:52

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.9	76.1	114.1
145	31.9	25.7	38.5

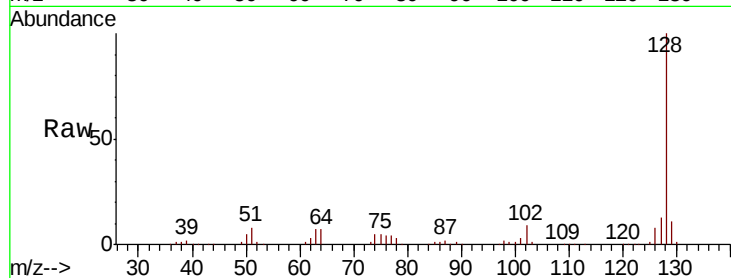




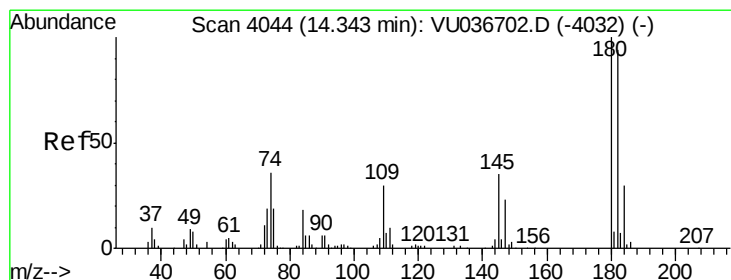
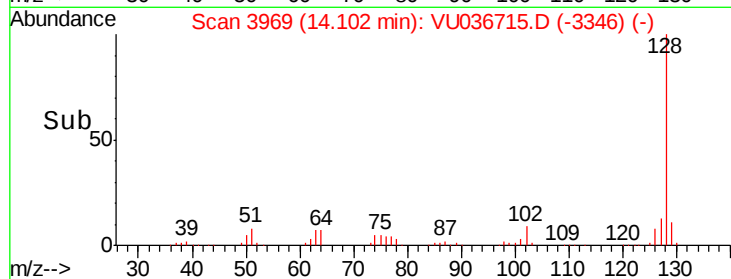
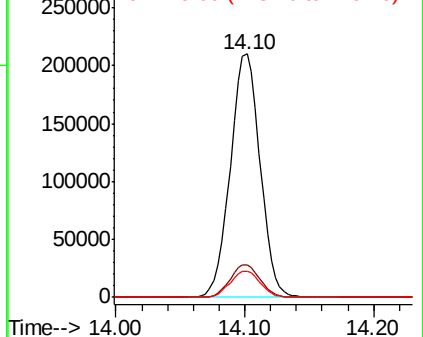
#71
Naphthalene
Concen: 45.862 ug/L
RT: 14.10 min Scan# 3969
Delta R.T. 0.00 min
Lab File: VU036715.D
Acq: 11 Feb 2020 09:52

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:128 Resp: 336455
Ion Ratio Lower Upper
128 100
127 13.6 10.6 16.0
129 10.8 8.5 12.7

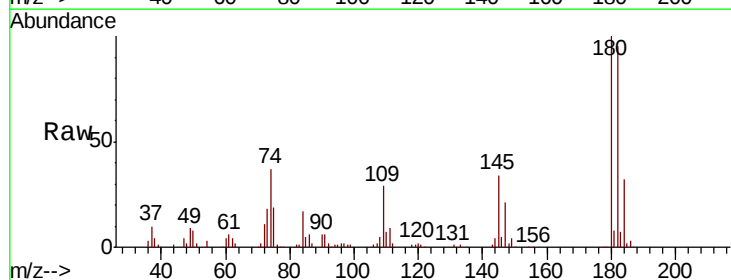


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#72
1,2,3-Trichlorobenzene
Concen: 45.521 ug/L
RT: 14.34 min Scan# 4044
Delta R.T. -0.00 min
Lab File: VU036715.D
Acq: 11 Feb 2020 09:52

Tgt Ion:180 Resp: 94387
Ion Ratio Lower Upper
180 100
182 96.1 76.8 115.2
145 34.2 27.5 41.3



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

