

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090320\
 Data File : VU040036.D
 Acq On : 03 Sep 2020 16:36
 Operator : SY/MD
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00521

Quant Time: Sep 04 03:03:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR083120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Sep 04 02:55:57 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	112113	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	108453	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	54227	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	28427	4.64	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	92.80%
7) Chloroethane-d5	1.92	69	25931	5.08	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	101.60%
11) 1,1-Dichloroethene-d2	2.58	63	77144	4.91	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	98.20%
20) 2-Butanone-d5	4.64	46	130312	53.22	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	106.44%
24) Chloroform-d	5.08	84	74047	5.18	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	103.60%
26) 1,2-Dichloroethane-d4	5.72	65	44137	5.00	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.00%
32) Benzene-d6	5.74	84	132501	5.23	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.60%
36) 1,2-Dichloropropane-d6	6.70	67	43477	5.21	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	104.20%
41) Toluene-d8	7.91	98	119156	5.21	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.20%
43) trans-1,3-Dichloropropene-	8.19	79	18825	4.91	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	98.20%
46) 2-Hexanone-d5	8.64	63	100012	55.07	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	110.14%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	39954	5.54	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	110.80%
64) 1,2-Dichlorobenzene-d4	12.19	152	45577	5.19	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	103.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	55670	5.003	ug/L 100
3) Chloromethane	1.53	50	55954	5.253	ug/L 100
5) Vinyl chloride	1.61	62	54016	5.002	ug/L 97
6) Bromomethane	1.86	94	31665	5.736	ug/L 97
8) Chloroethane	1.94	64	34474	5.312	ug/L 98
9) Trichlorofluoromethane	2.15	101	81869	5.292	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	51494	5.135	ug/L 98
12) 1,1-Dichloroethene	2.59	96	44117	5.085	ug/L 90
13) Acetone	2.64	43	111844	49.346	ug/L 99
14) Carbon disulfide	2.81	76	135937	4.886	ug/L 98
15) Methyl Acetate	2.96	43	27917	4.908	ug/L 97
16) Methylene chloride	3.06	84	52404	4.612	ug/L 97
17) Methyl tert-butyl Ether	3.38	73	130173	4.978	ug/L 99
18) trans-1,2-Dichloroethene	3.37	96	46351	4.966	ug/L 99
19) 1,1-Dichloroethane	3.89	63	97235	5.061	ug/L 100
21) 2-Butanone	4.72	43	185040	50.006	ug/L 99
22) cis-1,2-Dichloroethene	4.68	96	51134	5.095	ug/L 96

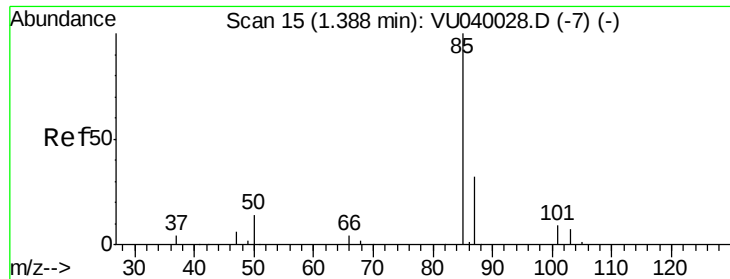
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090320\
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 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Sep 04 02:55:57 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.99	128	23332	5.306	ug/L	99
25) Chloroform	5.11	83	99751	5.070	ug/L	96
27) 1,2-Dichloroethane	5.81	62	72882	5.056	ug/L	98
29) 1,1,1-Trichloroethane	5.33	97	87594	5.144	ug/L	100
30) Cyclohexane	5.41	56	82005	4.966	ug/L	97
31) Carbon tetrachloride	5.54	117	71842	4.930	ug/L	98
33) Benzene	5.79	78	201412	5.191	ug/L	100
34) Trichloroethene	6.55	95	54397	5.227	ug/L	94
35) Methylcyclohexane	6.77	83	78974	4.956	ug/L	99
37) 1,2-Dichloropropane	6.80	63	56263	5.355	ug/L	99
38) Bromodichloromethane	7.11	83	74312	5.182	ug/L	99
39) cis-1,3-Dichloropropene	7.62	75	77434	4.998	ug/L	95
40) 4-Methyl-2-pentanone	7.80	43	455324	52.823	ug/L	100
42) Toluene	7.98	91	213242	5.337	ug/L	100
44) trans-1,3-Dichloropropene	8.21	75	70932	4.941	ug/L	97
45) 1,1,2-Trichloroethane	8.41	97	42021	5.491	ug/L	97
47) Tetrachloroethene	8.56	164	33911	4.960	ug/L	98
48) 2-Hexanone	8.69	43	332155	52.828	ug/L	100
49) Dibromochloromethane	8.81	129	48086	5.235	ug/L	97
50) 1,2-Dibromoethane	8.93	107	37687	5.107	ug/L	93
51) Chlorobenzene	9.45	112	131275	5.292	ug/L	98
52) Ethylbenzene	9.57	91	235882	5.196	ug/L	99
53) m,p-Xylene	9.70	106	87529	5.415	ug/L	99
54) o-Xylene	10.10	106	85302	5.538	ug/L	94
55) Styrene	10.11	104	150273	5.610	ug/L	100
56) Isopropylbenzene	10.48	105	230735	5.493	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.78	83	53223	5.424	ug/L	100
59) 1,2,3-Trichloropropane	10.82	75	40369	5.187	ug/L	94
61) Bromoform	10.29	173	25045	5.035	ug/L	99
62) 1,3-Dichlorobenzene	11.74	146	106107	5.353	ug/L	98
63) 1,4-Dichlorobenzene	11.83	146	105909	5.281	ug/L	98
65) 1,2-Dichlorobenzene	12.21	146	102316	5.335	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.99	75	10106	4.927	ug/L	93
67) 1,3,5-Trichlorobenzene	13.21	180	71422	5.125	ug/L	99
68) 1,2,4-trichlorobenzene	13.83	180	61005	5.082	ug/L	98
69) Naphthalene	14.08	128	117731	4.705	ug/L	100
70) 1,2,3-Trichlorobenzene	14.32	180	56767	5.148	ug/L	95

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



#2

Dichlorodifluoromethane

Concen: 5.003 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU040036.D

Acq: 03 Sep 2020 16:36

Instrument :

MSVOA_U

ClientSampleId :

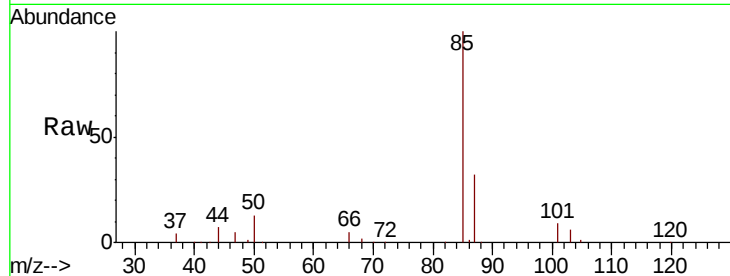
VSTD00521

Tot Ion: 85 Resp: 55670

Ion Ratio Lower Upper

85 100

87 32.4 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VU040028.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VU040028.D (-7) (-)

1.39

60000

50000

40000

30000

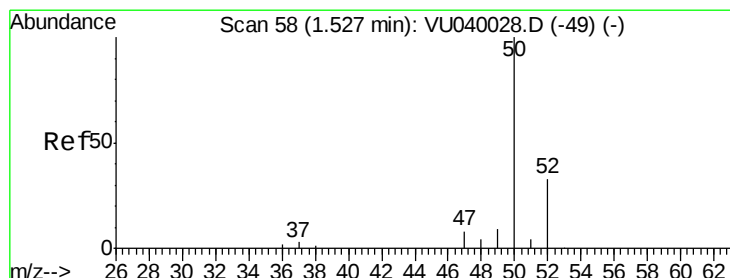
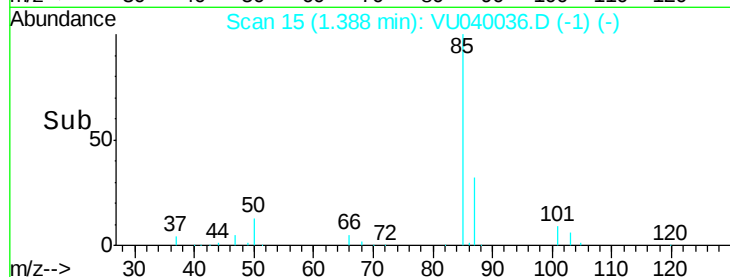
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10000

0

1.35 1.40 1.45

Time-->



#3

Chloromethane

Concen: 5.253 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU040036.D

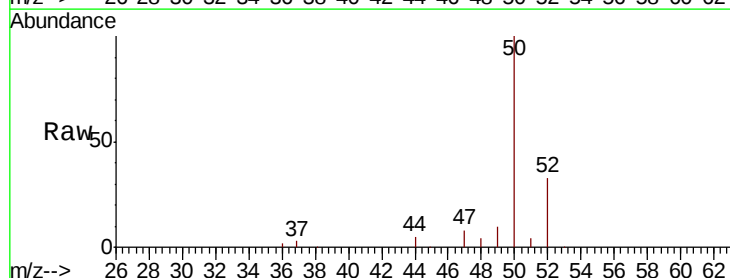
Acq: 03 Sep 2020 16:36

Tgt Ion: 50 Resp: 55954

Ion Ratio Lower Upper

50 100

52 32.6 22.8 42.4



Abundance Ion 50.05 (49.75 to 50.75): VU040028.D (-49) (-)

Ion 52.05 (51.75 to 52.75): VU040028.D (-49) (-)

1.53

60000

50000

40000

30000

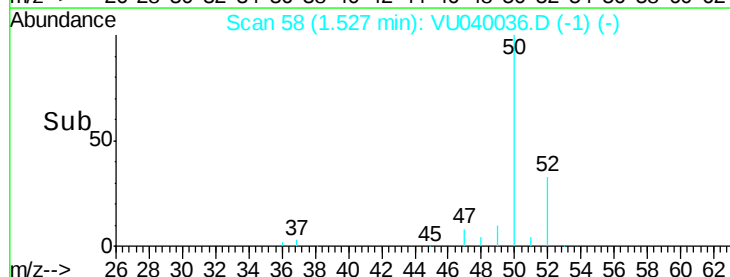
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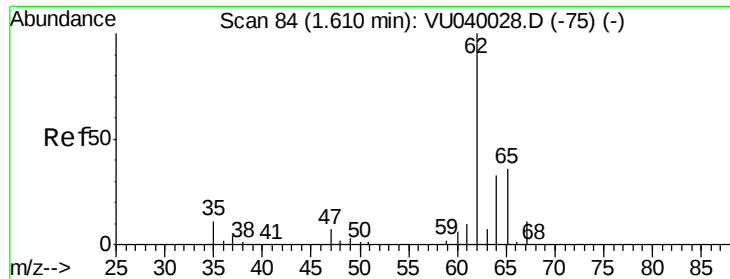
10000

0

1.50 1.55

Time-->





#5

Vinyl chloride

Concen: 5.002 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU040036.D

Acq: 03 Sep 2020 16:36

Instrument :

MSVOA_U

ClientSampled :

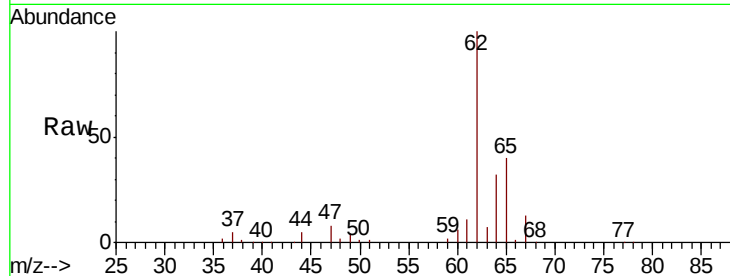
VSTD00521

Tot Ion: 62 Resp: 54016

Ion Ratio Lower Upper

62 100

64 32.2 23.9 44.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0

60000

50000

40000

30000

20000

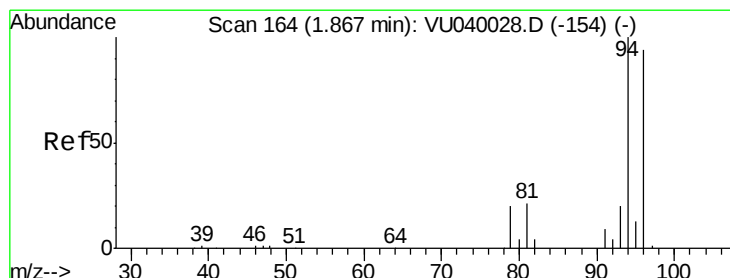
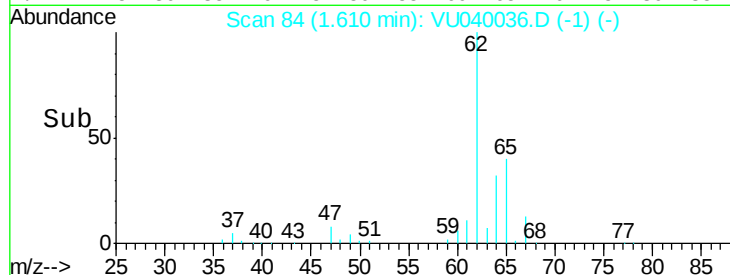
10000

0

1.61

1.55 1.60 1.65

Time-->



#6

Bromomethane

Concen: 5.736 ug/L

RT: 1.86 min Scan# 163

Delta R.T. -0.00 min

Lab File: VU040036.D

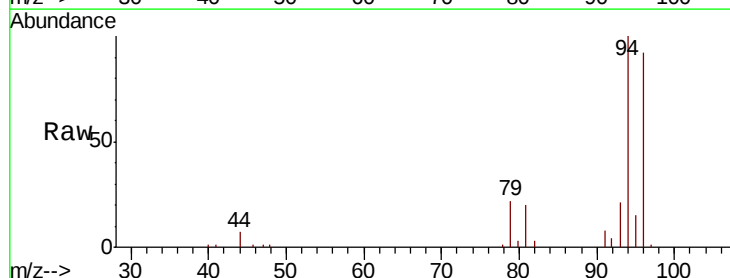
Acq: 03 Sep 2020 16:36

Tgt Ion: 94 Resp: 31665

Ion Ratio Lower Upper

94 100

96 91.8 62.3 115.7



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

25000

20000

15000

10000

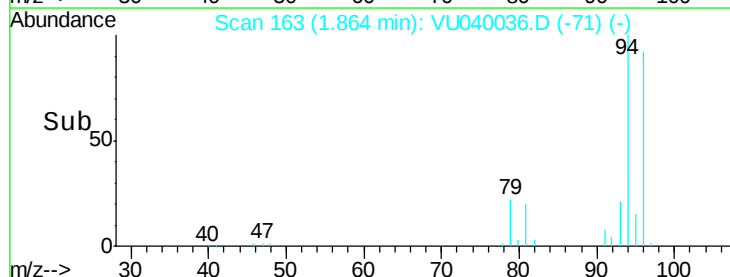
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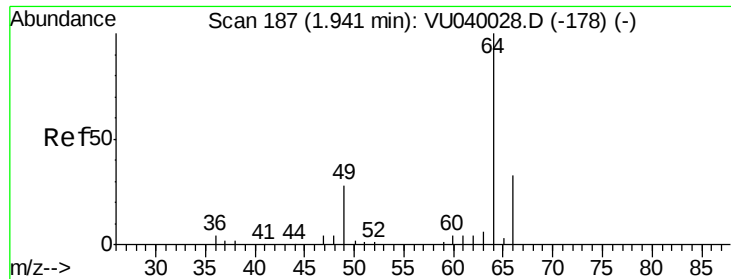
0

1.86

1.80 1.85 1.90

Time-->





#8

Chloroethane

Concen: 5.312 ug/L

RT: 1.94 min Scan# 187

Delta R.T. -0.00 min

Lab File: VU040036.D

Acq: 03 Sep 2020 16:36

Instrument :

MSVOA_U

ClientSampleId :

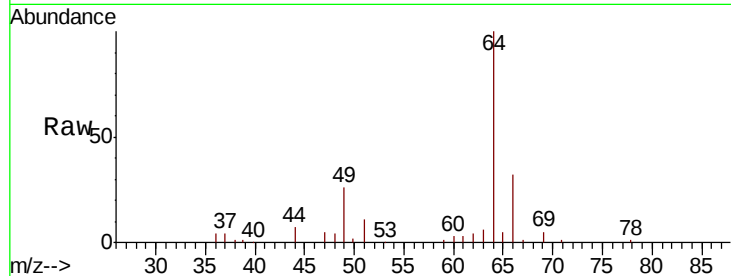
VSTD00521

Tot Ion: 64 Resp: 34474

Ion Ratio Lower Upper

64 100

66 31.5 22.7 42.1



Abundance Ion 64.10 (63.80 to 64.80): VU040028.D (-178) (-)

Ion 66.05 (65.75 to 66.75): VU040028.D (-178) (-)

1.94

25000

20000

15000

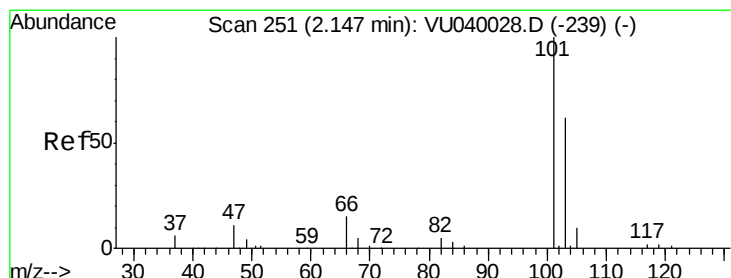
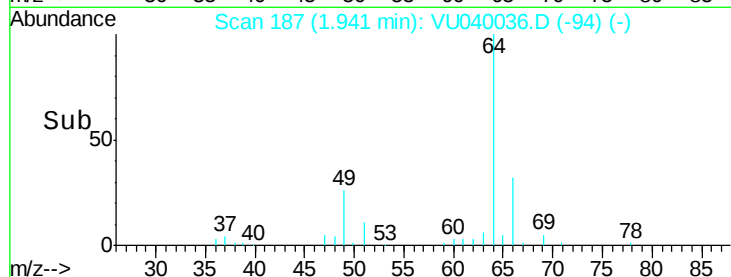
10000

5000

0

Time-->

1.90 1.95 2.00



#9

Trichlorofluoromethane

Concen: 5.292 ug/L

RT: 2.15 min Scan# 251

Delta R.T. -0.00 min

Lab File: VU040036.D

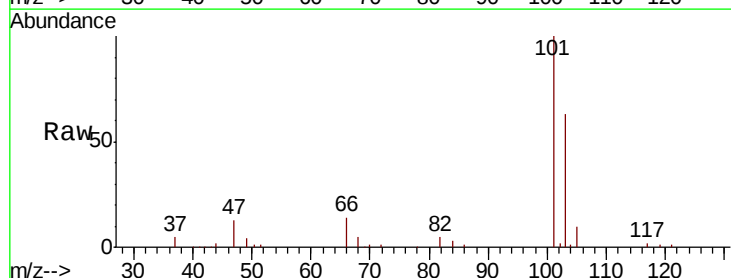
Acq: 03 Sep 2020 16:36

Tgt Ion: 101 Resp: 81869

Ion Ratio Lower Upper

101 100

103 64.2 51.3 76.9



Abundance Ion 101.00 (100.70 to 101.70): VU040028.D (-239) (-)

Ion 103.00 (102.70 to 103.70): VU040028.D (-239) (-)

2.15

60000

50000

40000

30000

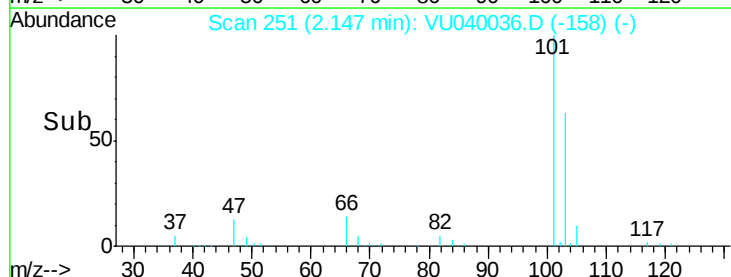
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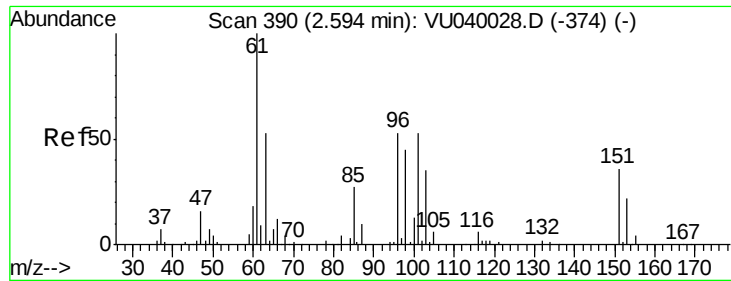
10000

0

Time-->

2.10 2.15 2.20





#10

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

Concen: 5.135 ug/L

RT: 2.59 min Scan# 390

Delta R.T. -0.00 min

Lab File: VU040036.D

Acq: 03 Sep 2020 16:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD00521

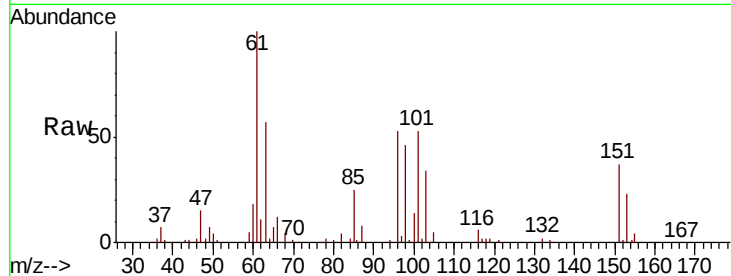
Tot Ion:101 Resp: 51494

Ion Ratio Lower Upper

101 100

85 47.9 37.7 56.5

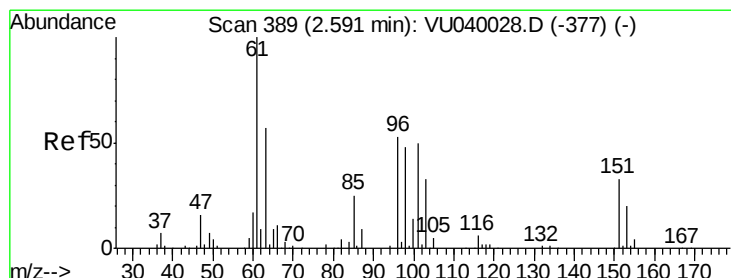
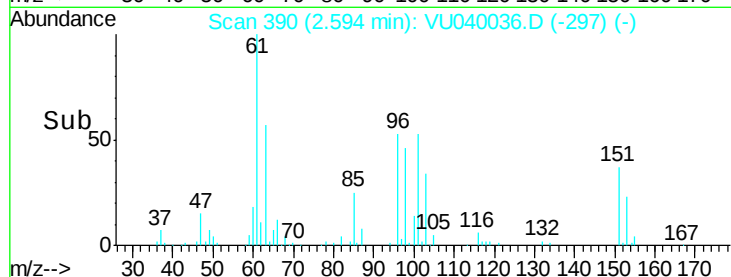
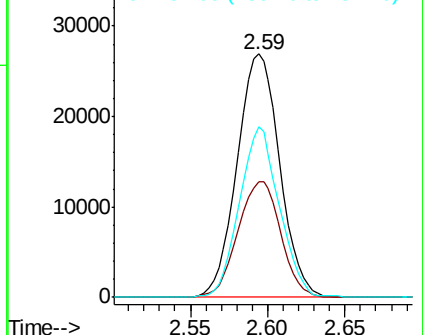
151 65.6 53.9 80.9



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: 5.085 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU040036.D

Acq: 03 Sep 2020 16:36

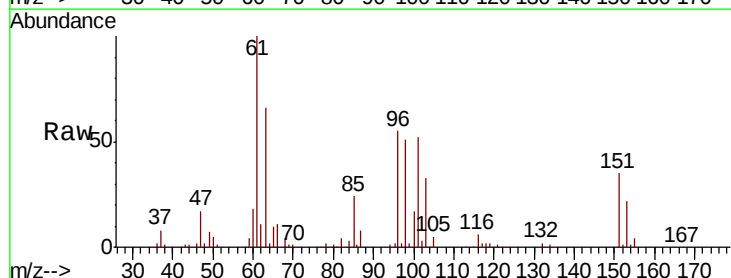
Tgt Ion: 96 Resp: 44117

Ion Ratio Lower Upper

96 100

61 183.4 138.3 256.8

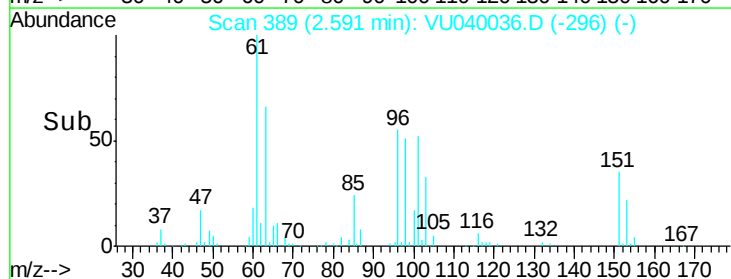
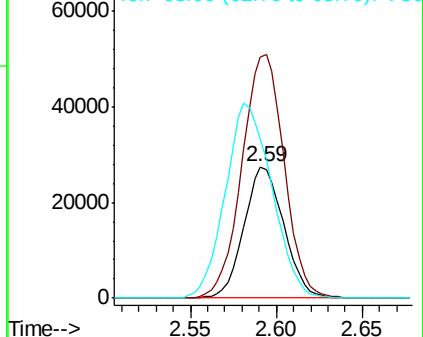
63 121.3 77.6 144.2

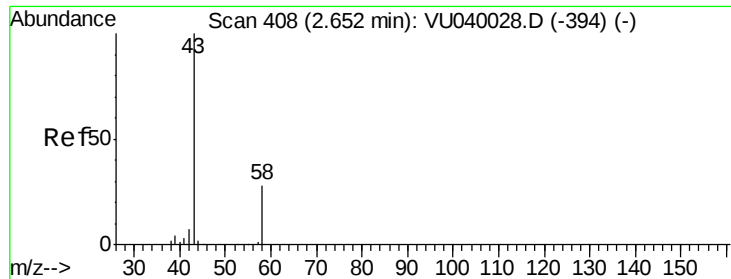


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 49.346 ug/L

RT: 2.64 min Scan# 404

Delta R.T. -0.01 min

Lab File: VU040036.D

Acq: 03 Sep 2020 16:36

Instrument :

MSVOA_U

ClientSampleId :

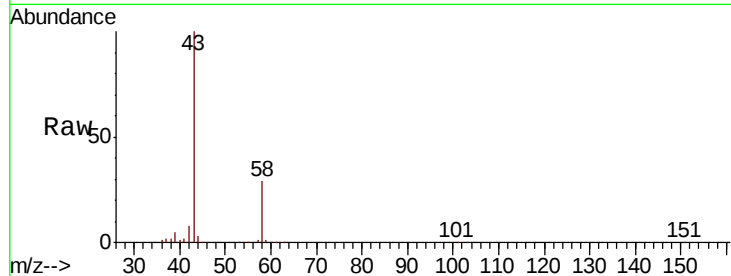
VSTD00521

Tot Ion: 43 Resp: 111844

Ion Ratio Lower Upper

43 100

58 28.4 0.0 55.4



Abundance Ion 43.05 (42.75 to 43.75): VU040028.D (-394) (-)

Ion 58.05 (57.75 to 58.75): VU040028.D (-394) (-)

2.64

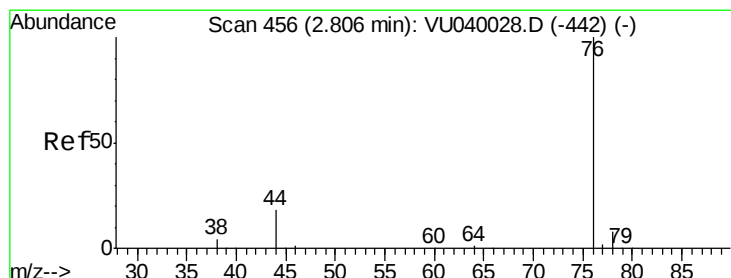
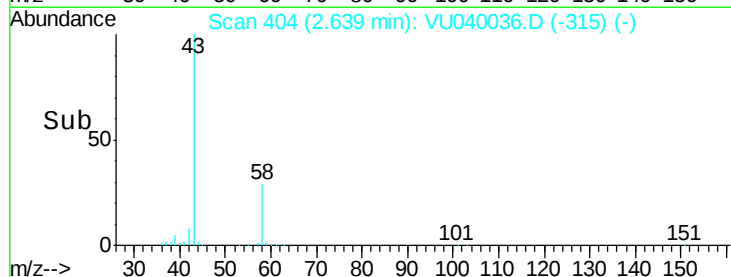
60000

40000

20000

0

Time-->



#14

Carbon disulfide

Concen: 4.886 ug/L

RT: 2.81 min Scan# 456

Delta R.T. -0.00 min

Lab File: VU040036.D

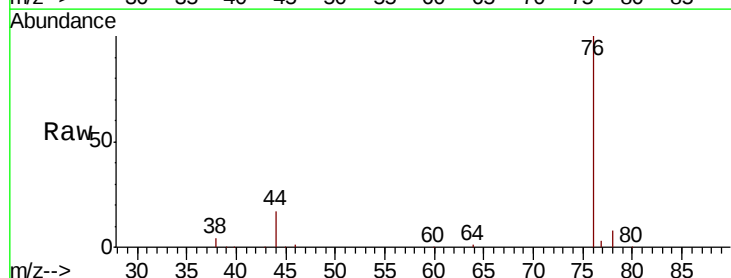
Acq: 03 Sep 2020 16:36

Tgt Ion: 76 Resp: 135937

Ion Ratio Lower Upper

76 100

78 8.4 7.2 10.8



Abundance Ion 76.05 (75.75 to 76.75): VU040028.D (-442) (-)

Ion 78.00 (77.70 to 78.70): VU040028.D (-442) (-)

2.81

80000

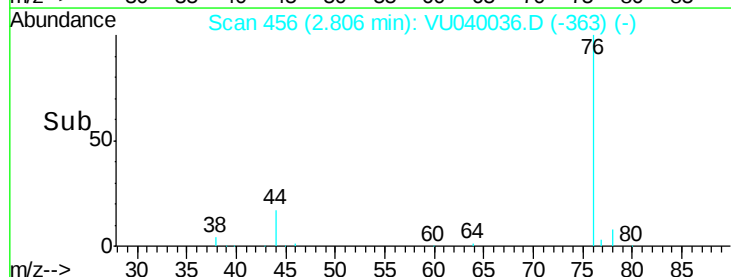
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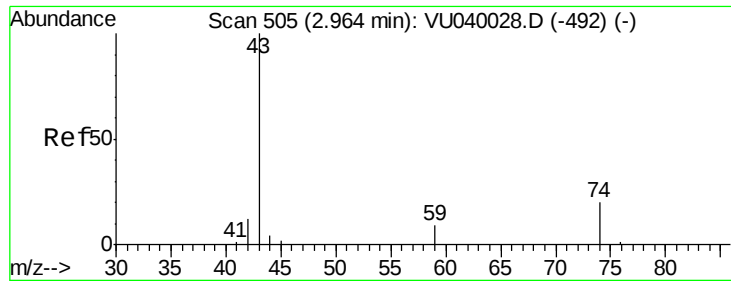
40000

20000

0

Time-->





#15

Methvl Acetate

Concen: 4.908 ug/L

RT: 2.96 min Scan# 504

Delta R.T. -0.00 min

Lab File: VU040036.D

Acq: 03 Sep 2020 16:36

Instrument :

MSVOA_U

ClientSampleId :

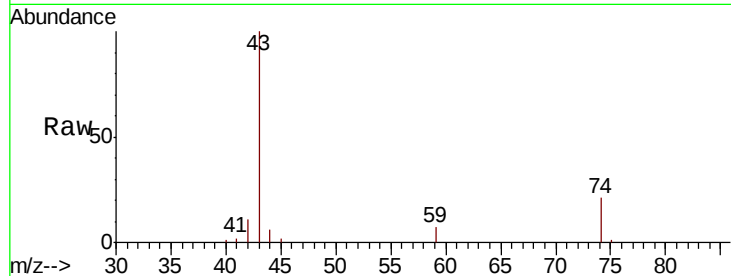
VSTD00521

Tot Ion: 43 Resp: 27917

Ion Ratio Lower Upper

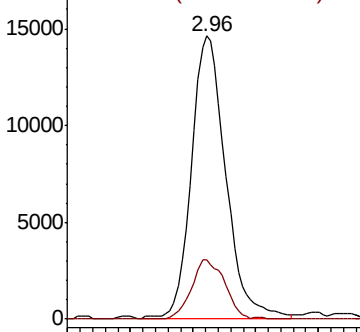
43 100

74 20.1 17.4 26.0

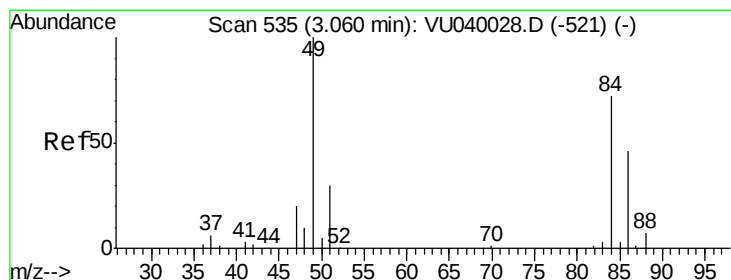
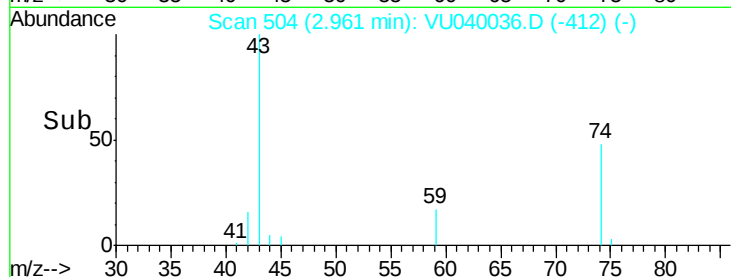


Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0



Time--> 2.85 2.90 2.95 3.00 3.05



#16

Methylene chloride

Concen: 4.612 ug/L

RT: 3.06 min Scan# 536

Delta R.T. 0.00 min

Lab File: VU040036.D

Acq: 03 Sep 2020 16:36

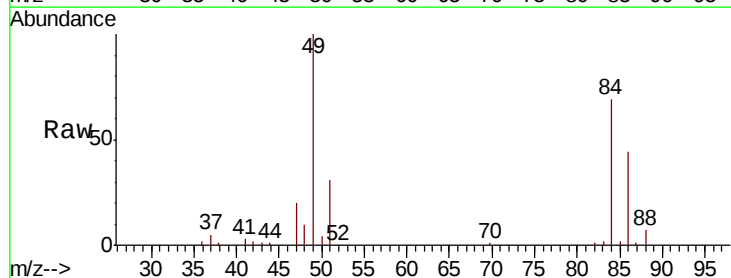
Tgt Ion: 84 Resp: 52404

Ion Ratio Lower Upper

84 100

86 63.5 45.2 84.0

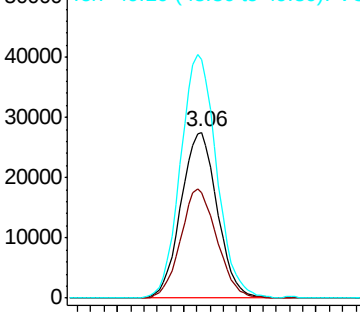
49 144.0 104.0 193.2



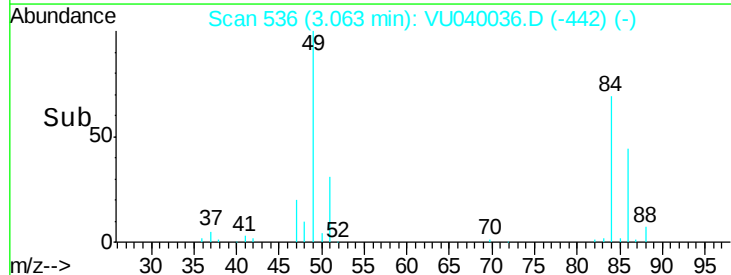
Abundance Ion 84.05 (83.75 to 84.75): VU0

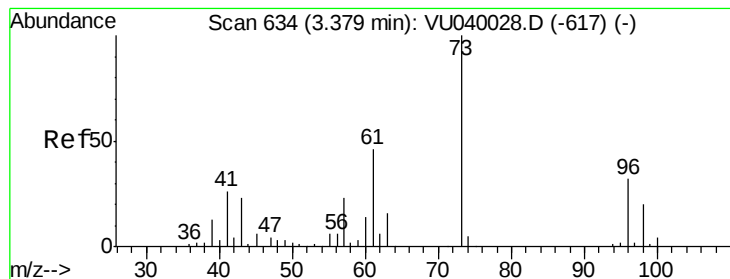
Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0



Time--> 3.00 3.05 3.10 3.15



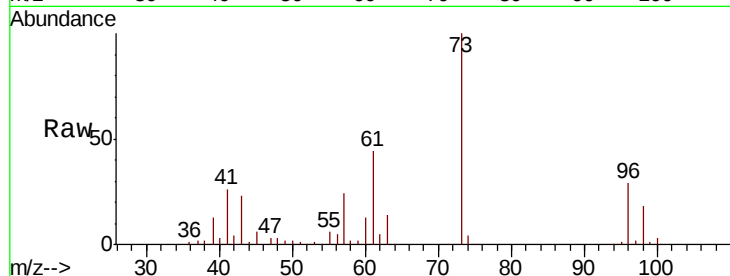


#17

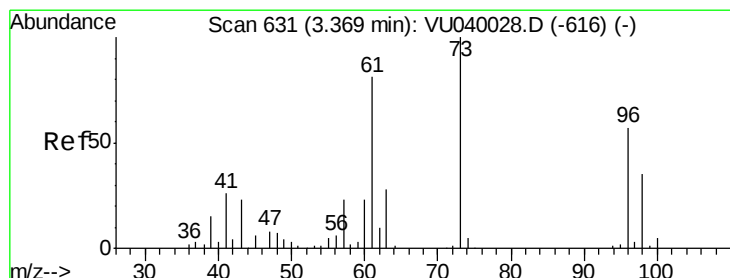
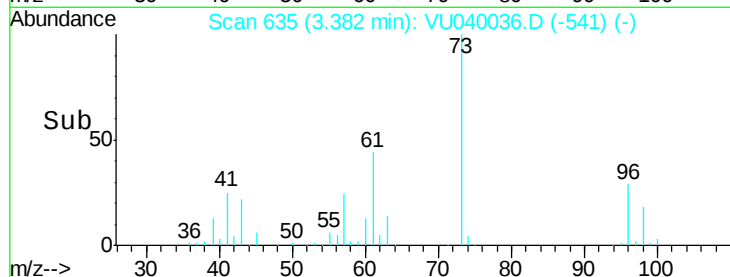
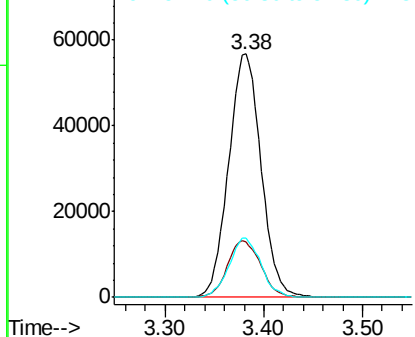
Methvl tert-butvl Ether
 Concen: 4.978 ug/L
 RT: 3.38 min Scan# 635
 Delta R.T. 0.00 min
 Lab File: VU040036.D
 Acq: 03 Sep 2020 16:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00521

Tot Ion: 73 Resp: 130173
 Ion Ratio Lower Upper
 73 100
 43 24.0 19.1 28.7
 57 23.9 18.3 27.5



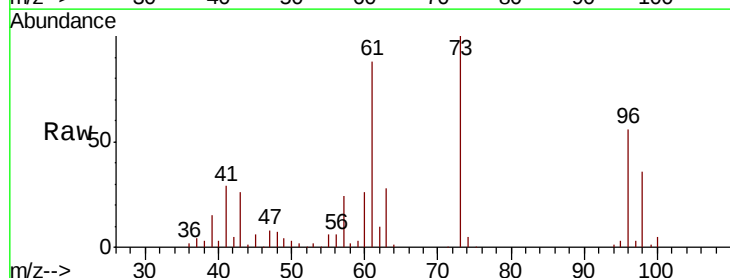
Abundance Ion 73.10 (72.80 to 73.80): VU0
 Ion 43.05 (42.75 to 43.75): VU0
 Ion 57.10 (56.80 to 57.80): VU0



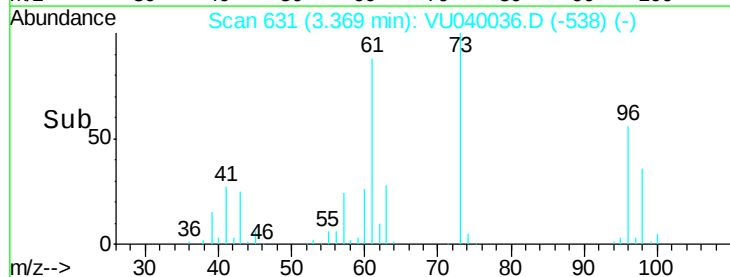
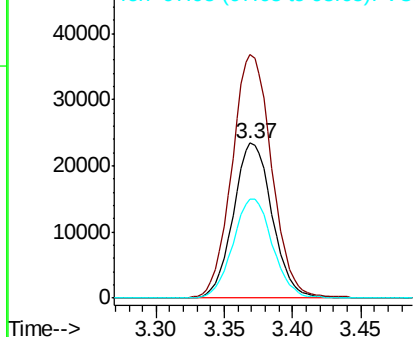
#18

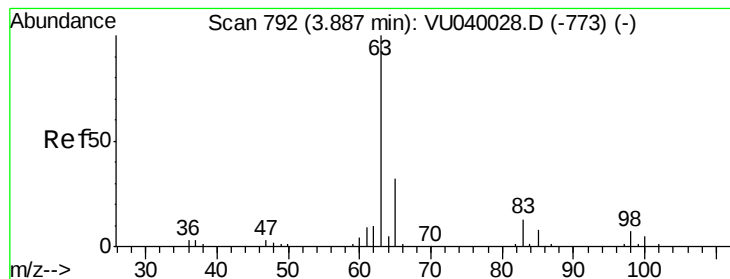
trans-1,2-Dichloroethene
 Concen: 4.966 ug/L
 RT: 3.37 min Scan# 631
 Delta R.T. -0.00 min
 Lab File: VU040036.D
 Acq: 03 Sep 2020 16:36

Tgt Ion: 96 Resp: 46351
 Ion Ratio Lower Upper
 96 100
 61 157.1 110.5 205.3
 98 64.2 43.2 80.2



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 97.95 (97.65 to 98.65): VU0





#19

1,1-Dichloroethane

Concen: 5.061 ug/L

RT: 3.89 min Scan# 793

Delta R.T. 0.00 min

Lab File: VU040036.D

Acq: 03 Sep 2020 16:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD00521

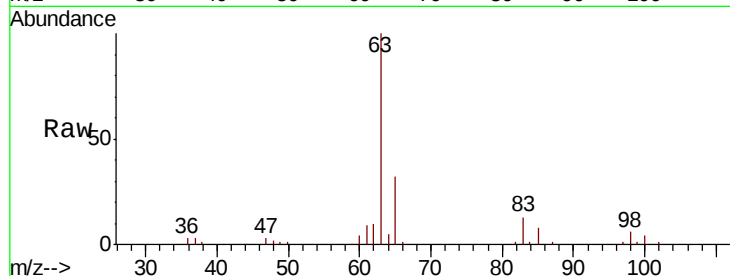
Tot Ion: 63 Resp: 97235

Ion Ratio Lower Upper

63 100

65 31.9 22.2 41.2

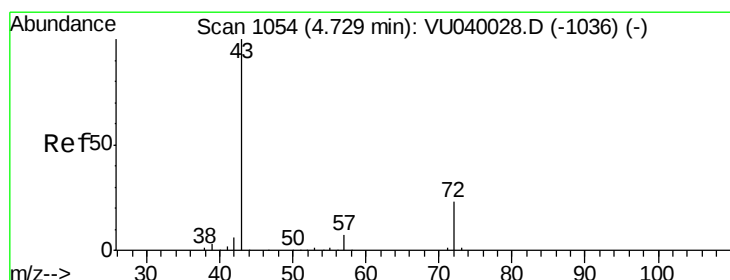
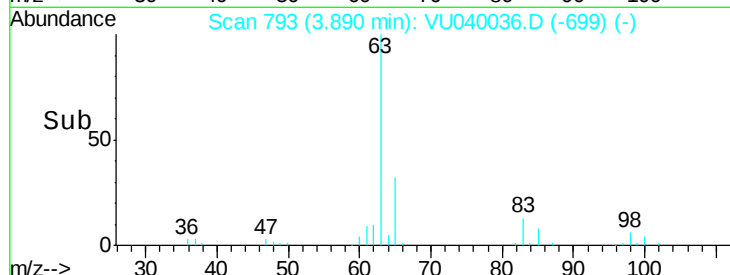
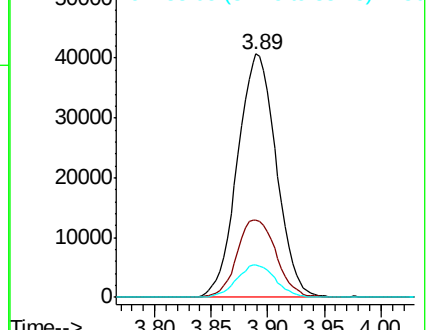
83 13.4 9.4 17.6



Abundance Ion 63.10 (62.80 to 63.80): VU040028.D (-773) (-)

Ion 65.10 (64.80 to 65.80): VU040028.D (-773) (-)

Ion 83.05 (82.75 to 83.75): VU040028.D (-773) (-)



#21

2-Butanone

Concen: 50.006 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. -0.01 min

Lab File: VU040036.D

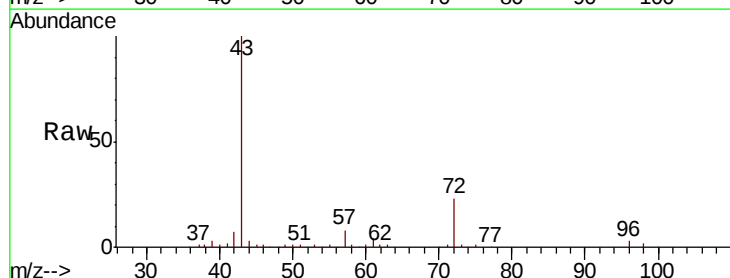
Acq: 03 Sep 2020 16:36

Tgt Ion: 43 Resp: 185040

Ion Ratio Lower Upper

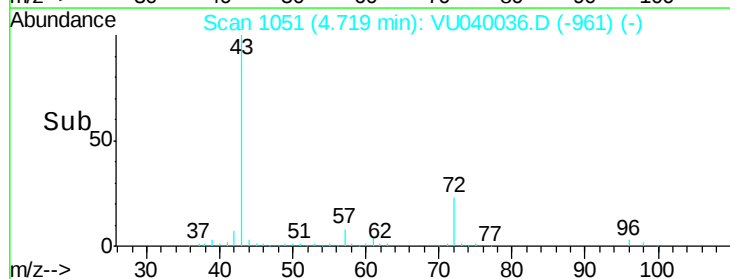
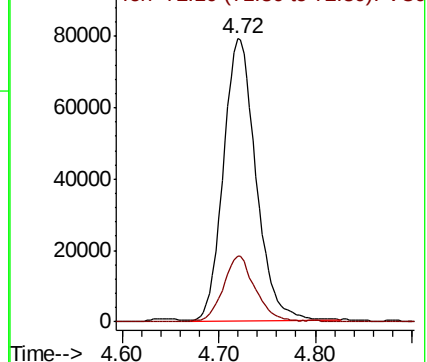
43 100

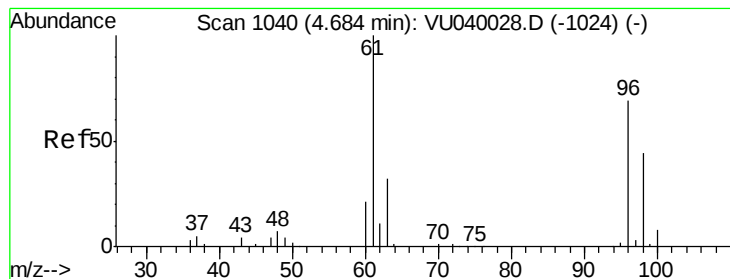
72 23.0 11.7 35.0



Abundance Ion 43.05 (42.75 to 43.75): VU040028.D (-1036) (-)

Ion 72.10 (71.80 to 72.80): VU040028.D (-1036) (-)





#22

cis-1,2-Dichloroethene

Concen: 5.095 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. -0.00 min

Lab File: VU040036.D

Acq: 03 Sep 2020 16:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD00521

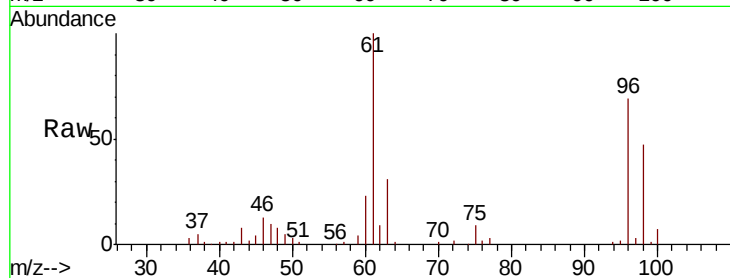
Tot Ion: 96 Resp: 51134

Ion Ratio Lower Upper

96 100

61 145.4 98.8 183.4

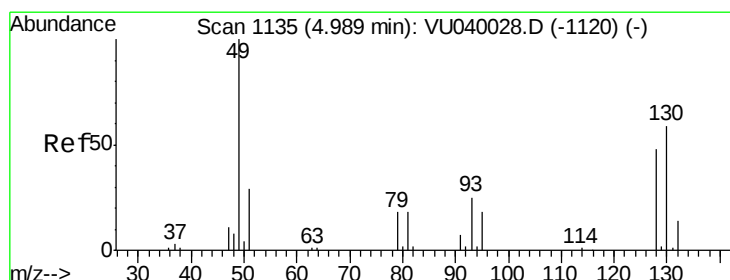
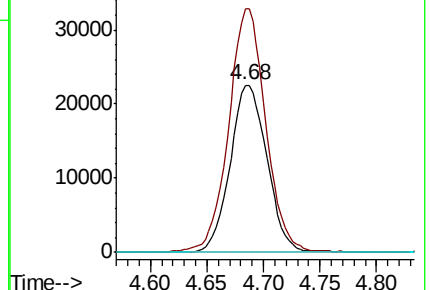
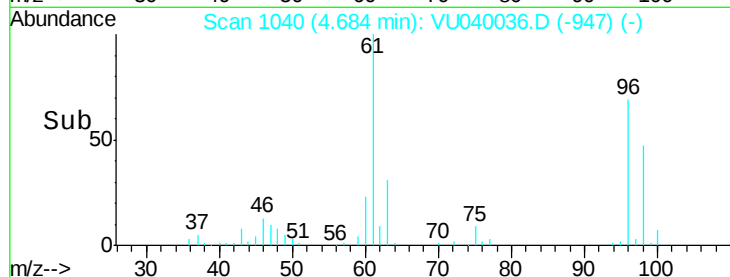
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU040036.D (-947) (-)

Ion 61.05 (60.75 to 61.75): VU040036.D (-947) (-)

Ion 68.15 (67.85 to 68.85): VU040036.D (-947) (-)



#23

Bromochloromethane

Concen: 5.306 ug/L

RT: 4.99 min Scan# 1136

Delta R.T. 0.00 min

Lab File: VU040036.D

Acq: 03 Sep 2020 16:36

Tgt Ion: 128 Resp: 23332

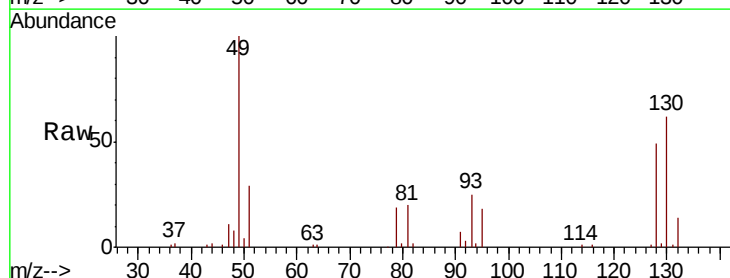
Ion Ratio Lower Upper

128 100

49 205.9 143.4 266.4

130 127.0 89.5 166.3

51 60.3 51.0 76.4

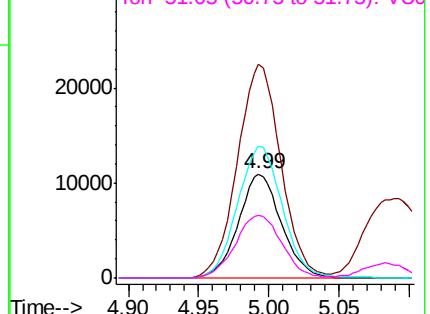
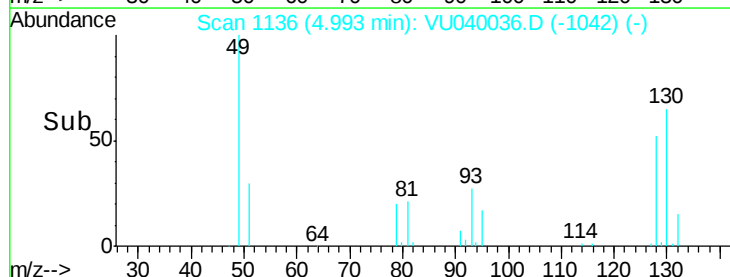


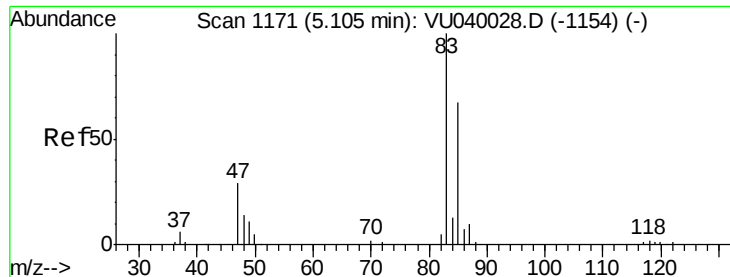
Abundance Ion 127.90 (127.60 to 128.60): VU040036.D (-1042) (-)

Ion 49.10 (48.80 to 49.80): VU040036.D (-1042) (-)

Ion 129.95 (129.65 to 130.65): VU040036.D (-1042) (-)

Ion 51.05 (50.75 to 51.75): VU040036.D (-1042) (-)

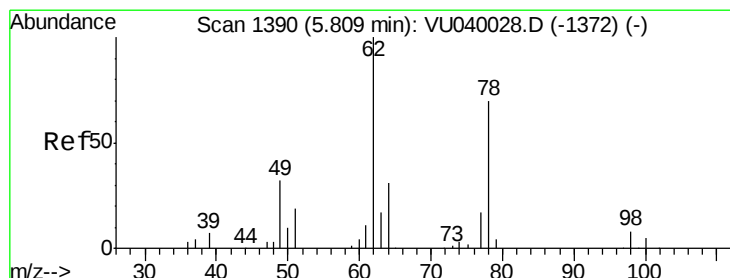
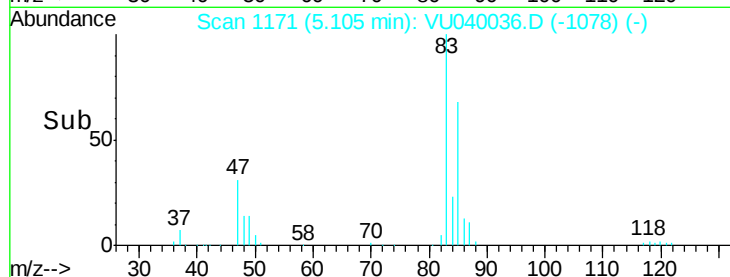
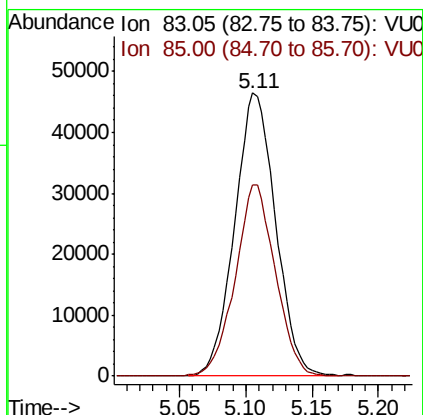
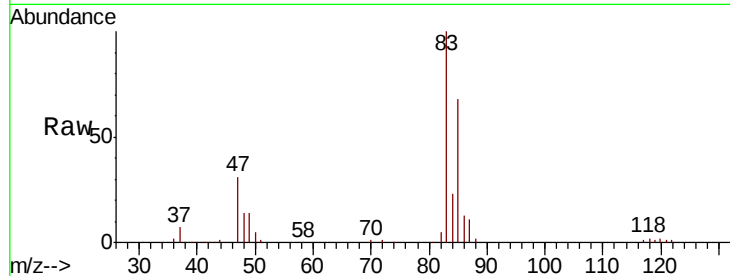




#25
Chloroform
Concen: 5.070 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. -0.00 min
Lab File: VU040036.D
Acq: 03 Sep 2020 16:36

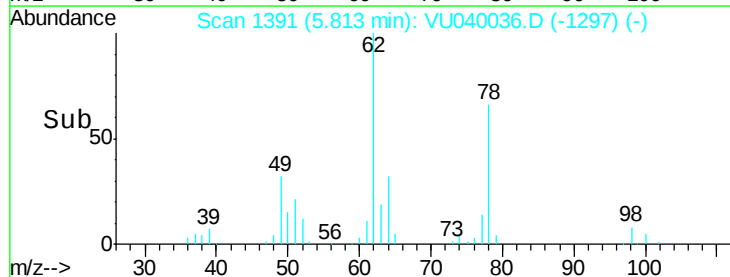
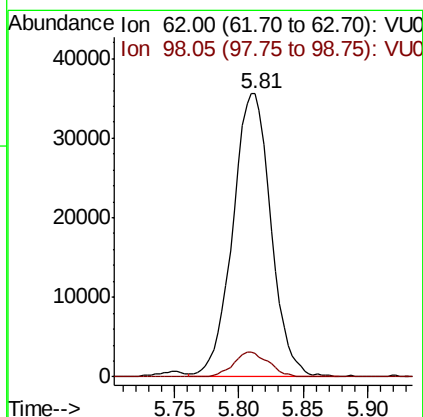
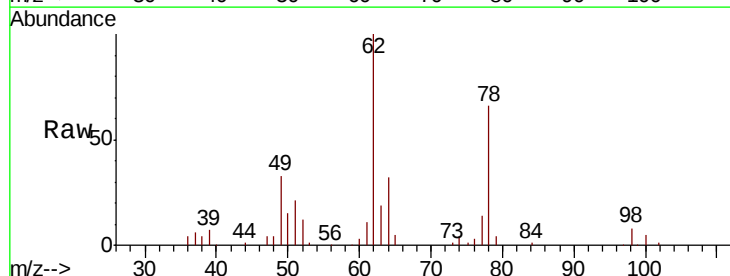
Instrument :
MSVOA_U
ClientSampleId :
VSTD00521

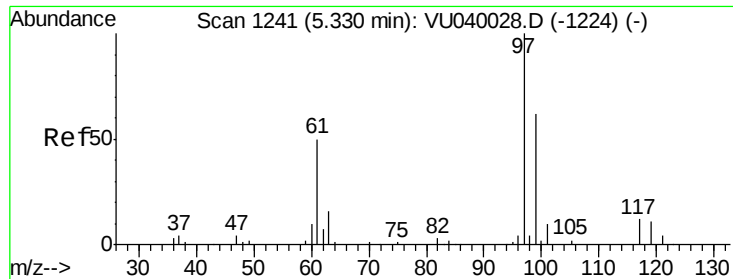
Tot Ion: 83 Resp: 99751
Ion Ratio Lower Upper
83 100
85 67.7 45.3 84.1



#27
1,2-Dichloroethane
Concen: 5.056 ug/L
RT: 5.81 min Scan# 1391
Delta R.T. 0.00 min
Lab File: VU040036.D
Acq: 03 Sep 2020 16:36

Tgt Ion: 62 Resp: 72882
Ion Ratio Lower Upper
62 100
98 8.2 6.1 9.1

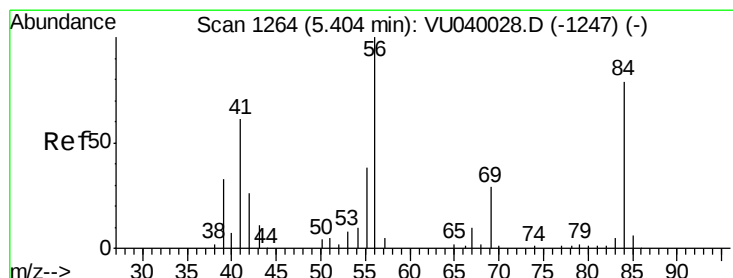
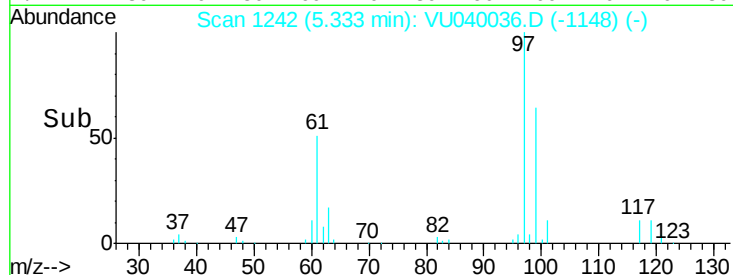
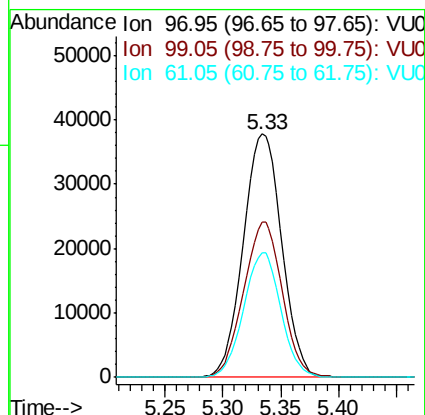
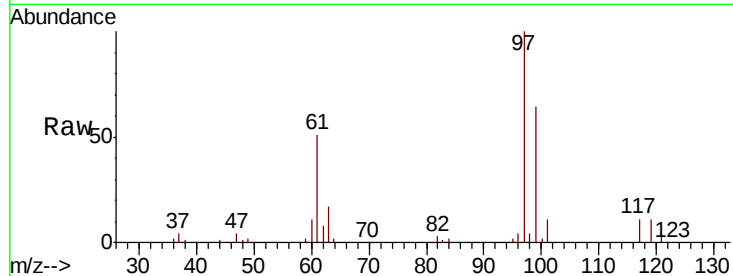




#29
 1,1,1-Trichloroethane
 Concen: 5.144 ug/L
 RT: 5.33 min Scan# 1242
 Delta R.T. 0.00 min
 Lab File: VU040036.D
 Acq: 03 Sep 2020 16:36

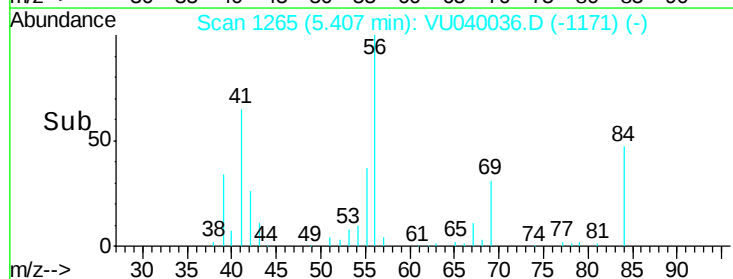
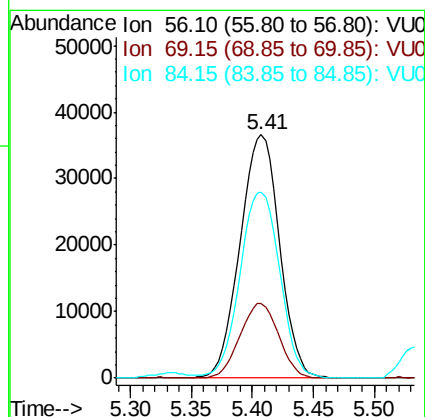
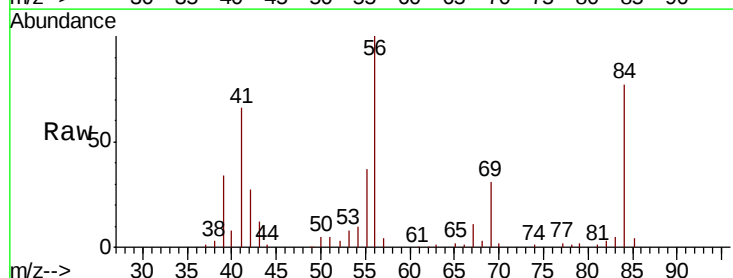
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00521

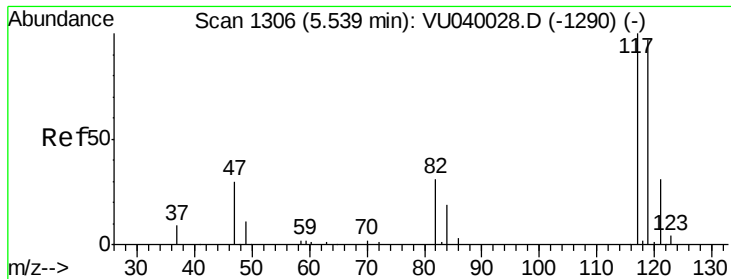
Tot Ion: 97 Resp: 87594
 Ion Ratio Lower Upper
 97 100
 99 63.9 50.9 76.3
 61 49.4 39.5 59.3



#30
 Cyclohexane
 Concen: 4.966 ug/L
 RT: 5.41 min Scan# 1265
 Delta R.T. 0.00 min
 Lab File: VU040036.D
 Acq: 03 Sep 2020 16:36

Tgt Ion: 56 Resp: 82005
 Ion Ratio Lower Upper
 56 100
 69 30.0 24.1 36.1
 84 77.2 65.0 97.4





#31

Carbon tetrachloride

Concen: 4.930 ug/L

RT: 5.54 min Scan# 1306

Delta R.T. -0.00 min

Lab File: VU040036.D

Acq: 03 Sep 2020 16:36

Instrument :

MSVOA_U

ClientSampleId :

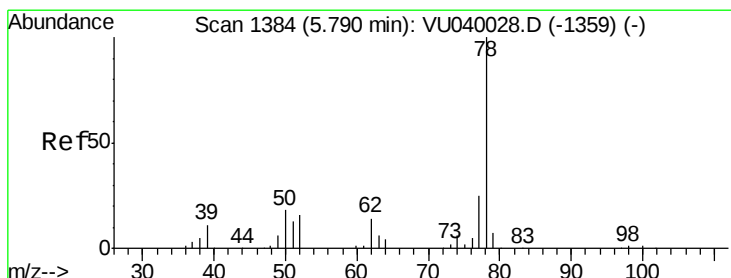
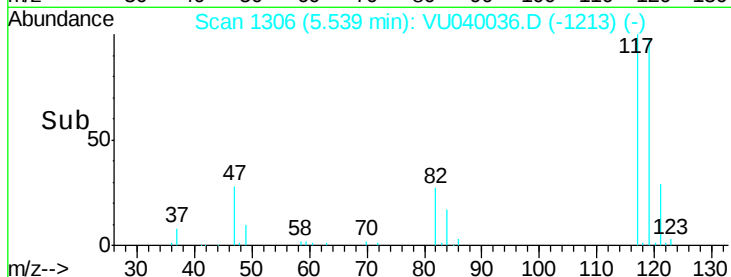
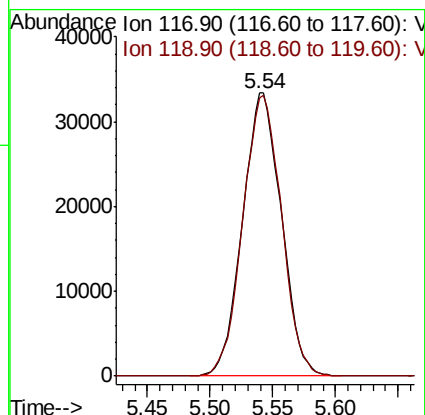
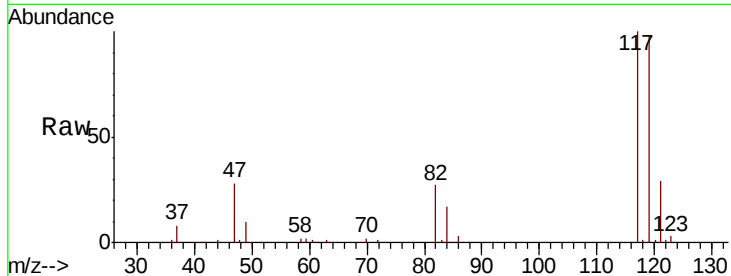
VSTD00521

Tot Ion:117 Resp: 71842

Ion Ratio Lower Upper

117 100

119 99.1 77.7 116.5



#33

Benzene

Concen: 5.191 ug/L

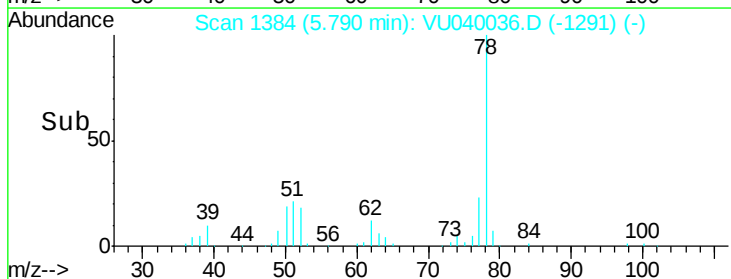
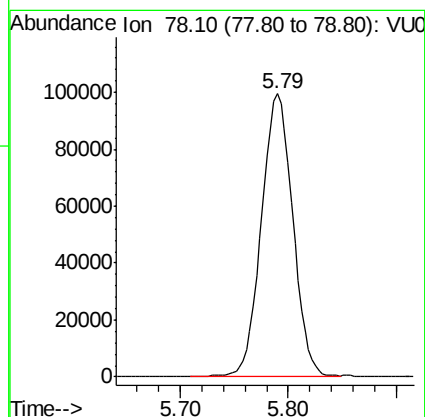
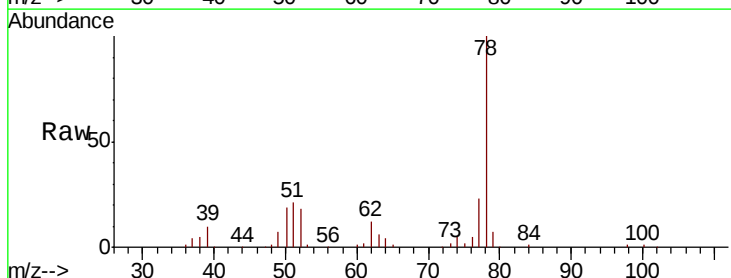
RT: 5.79 min Scan# 1384

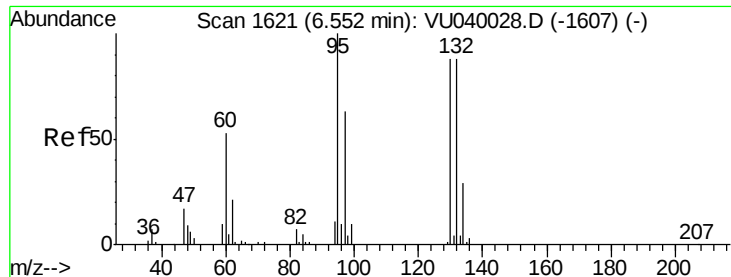
Delta R.T. -0.00 min

Lab File: VU040036.D

Acq: 03 Sep 2020 16:36

Tgt Ion: 78 Resp: 201412

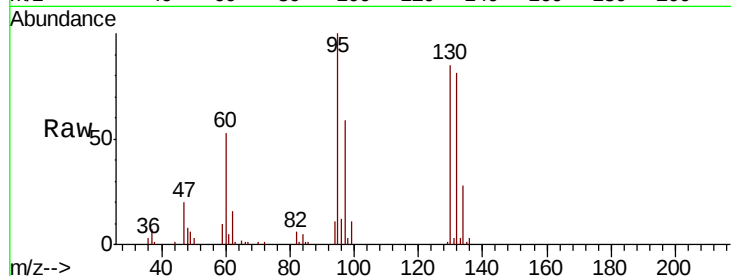




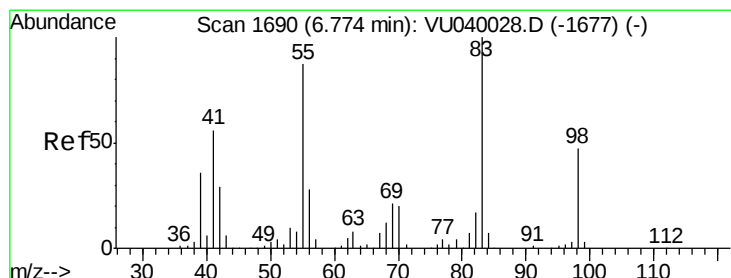
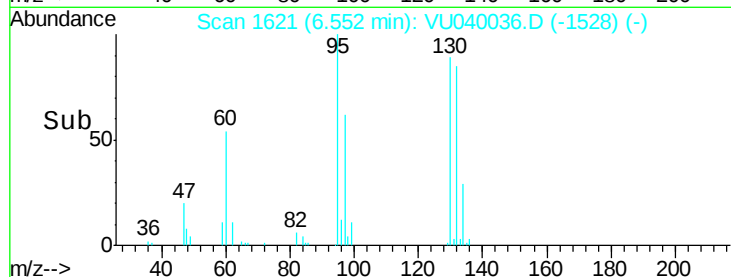
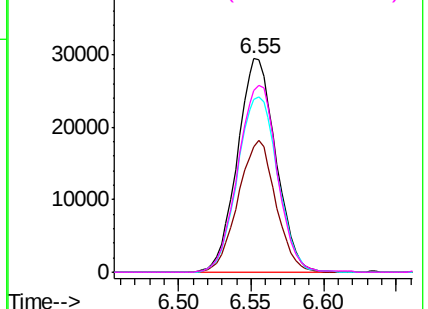
#34
 Trichloroethene
 Concen: 5.227 ug/L
 RT: 6.55 min Scan# 1621
 Delta R.T. -0.00 min
 Lab File: VU040036.D
 Acq: 03 Sep 2020 16:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00521

Tot Ion:	95	Resp:	54397
Ion	Ratio	Lower	Upper
95	100		
97	59.0	43.3	80.5
132	80.9	59.4	110.4
130	84.9	64.8	120.4

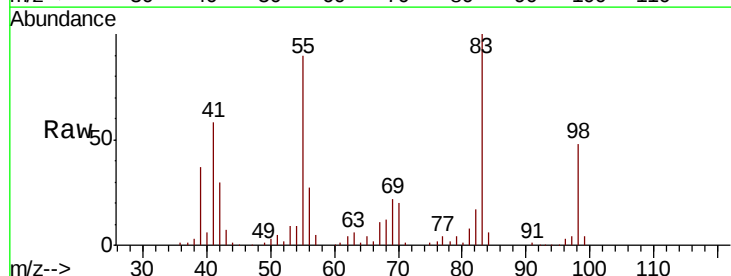


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

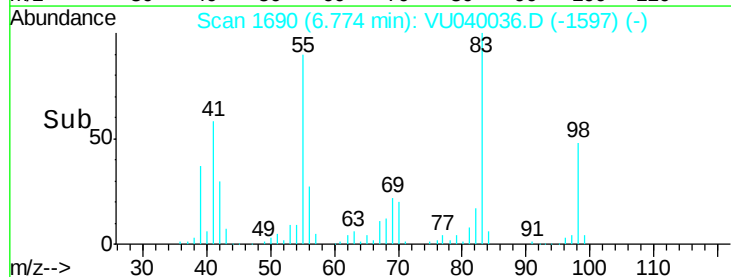
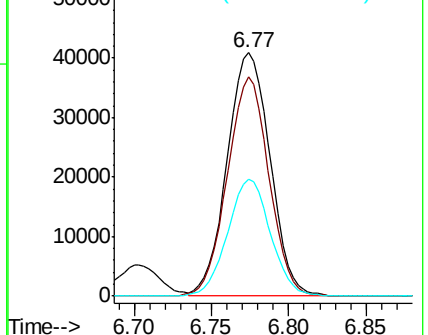


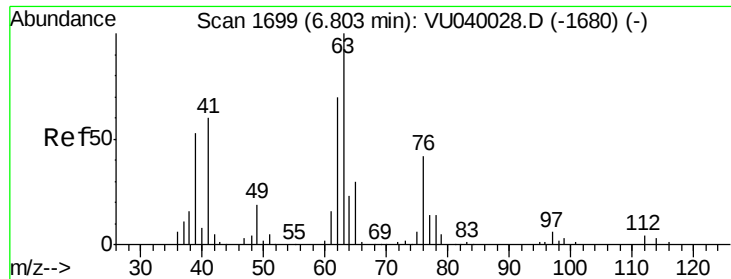
#35
 Methylcyclohexane
 Concen: 4.956 ug/L
 RT: 6.77 min Scan# 1690
 Delta R.T. -0.00 min
 Lab File: VU040036.D
 Acq: 03 Sep 2020 16:36

Tgt Ion:	83	Resp:	78974
Ion	Ratio	Lower	Upper
83	100		
55	87.2	70.5	105.7
98	47.7	37.8	56.6



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

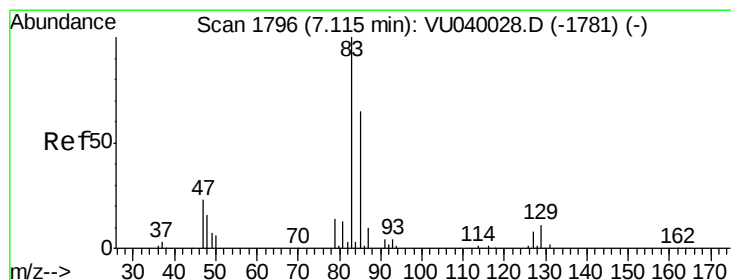
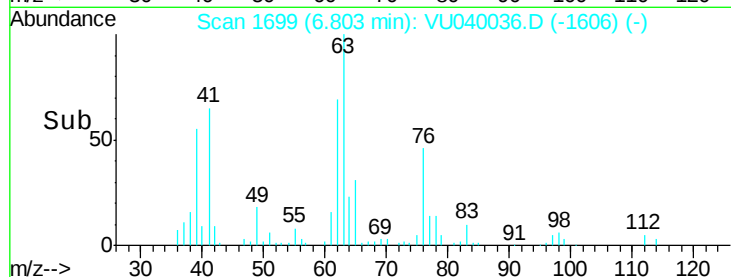
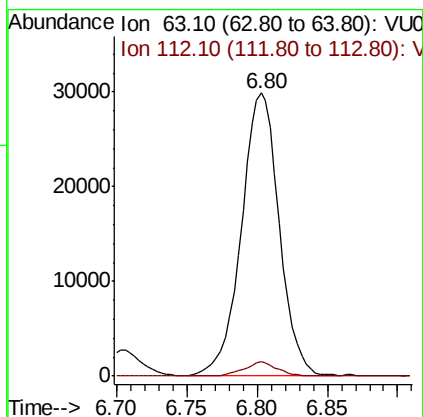
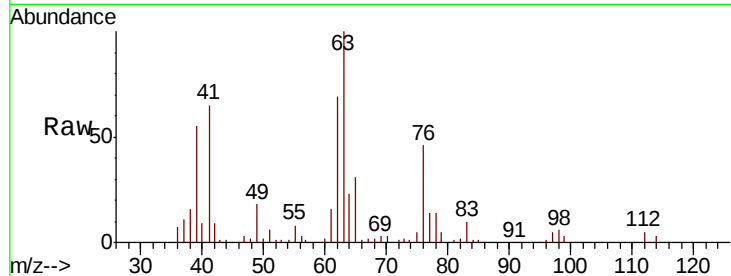




#37
 1,2-Dichloropropane
 Concen: 5.355 ug/L
 RT: 6.80 min Scan# 1699
 Delta R.T. -0.00 min
 Lab File: VU040036.D
 Acq: 03 Sep 2020 16:36

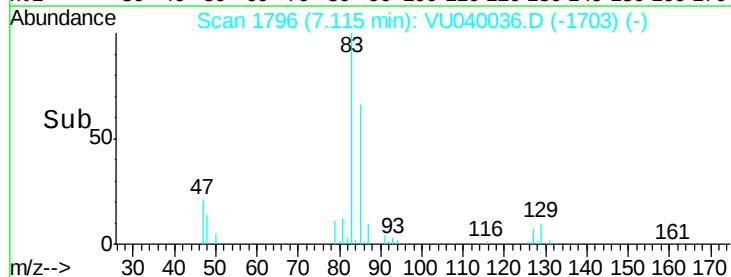
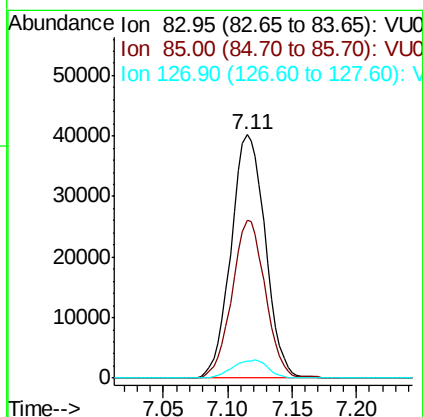
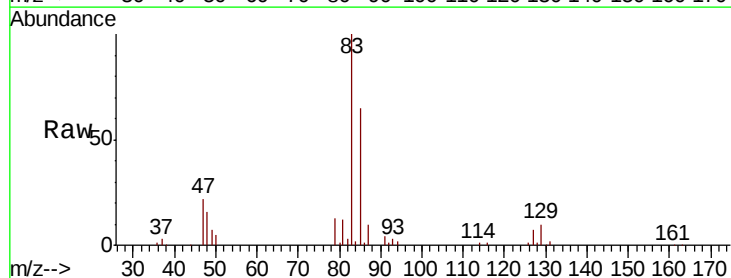
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00521

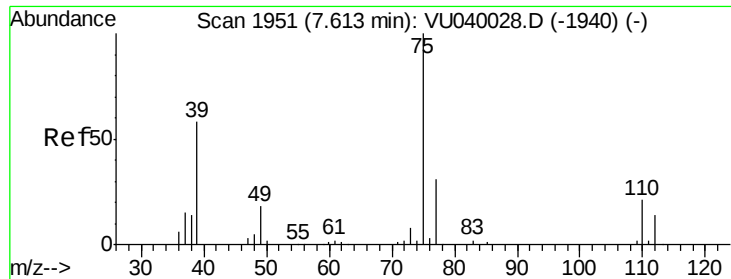
Tot Ion: 63 Resp: 56263
 Ion Ratio Lower Upper
 63 100
 112 4.4 3.2 4.8



#38
 Bromodichloromethane
 Concen: 5.182 ug/L
 RT: 7.11 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VU040036.D
 Acq: 03 Sep 2020 16:36

Tgt Ion: 83 Resp: 74312
 Ion Ratio Lower Upper
 83 100
 85 64.8 45.1 83.9
 127 7.0 6.7 10.1

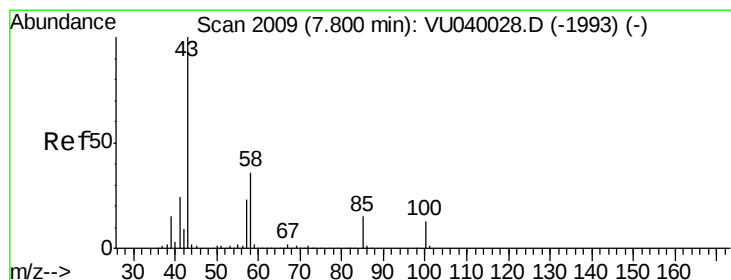
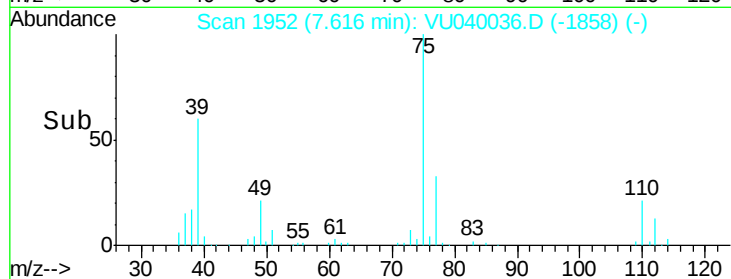
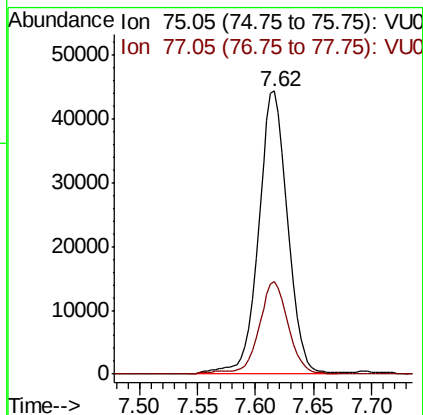
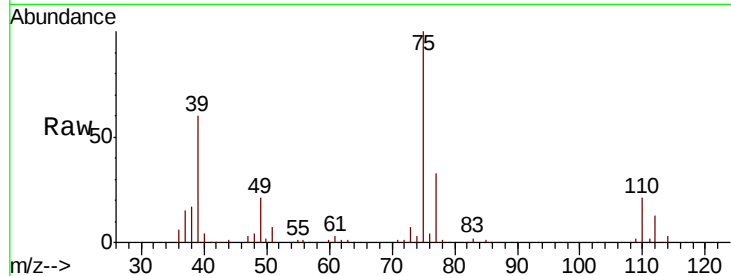




#39
 cis-1,3-Dichloropropene
 Concen: 4.998 ug/L
 RT: 7.62 min Scan# 1952
 Delta R.T. 0.00 min
 Lab File: VU040036.D
 Acq: 03 Sep 2020 16:36

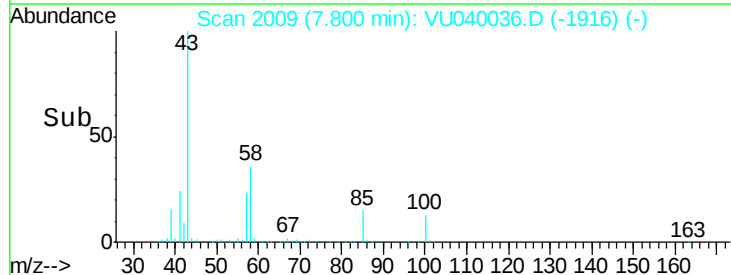
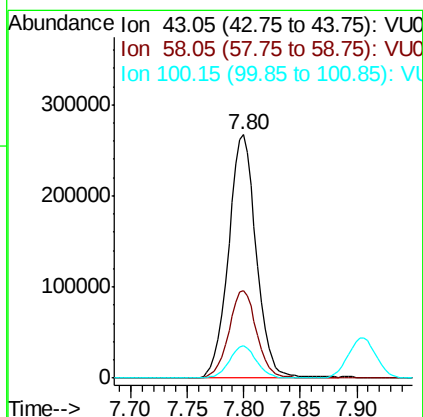
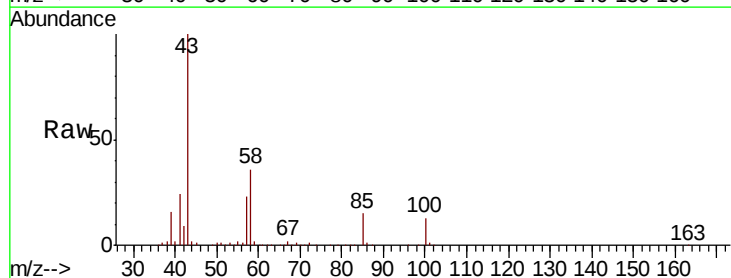
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD00521

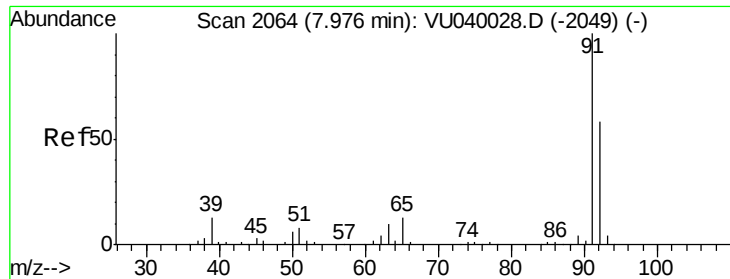
Tot Ion: 75 Resp: 77434
 Ion Ratio Lower Upper
 75 100
 77 32.7 21.1 39.3



#40
 4-Methyl-2-pentanone
 Concen: 52.823 ug/L
 RT: 7.80 min Scan# 2009
 Delta R.T. -0.00 min
 Lab File: VU040036.D
 Acq: 03 Sep 2020 16:36

Tgt Ion: 43 Resp: 455324
 Ion Ratio Lower Upper
 43 100
 58 36.0 28.7 43.1
 100 13.1 10.2 15.2





#42

Toluene

Concen: 5.337 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. -0.00 min

Lab File: VU040036.D

Acq: 03 Sep 2020 16:36

Instrument :

MSVOA_U

ClientSampleId :

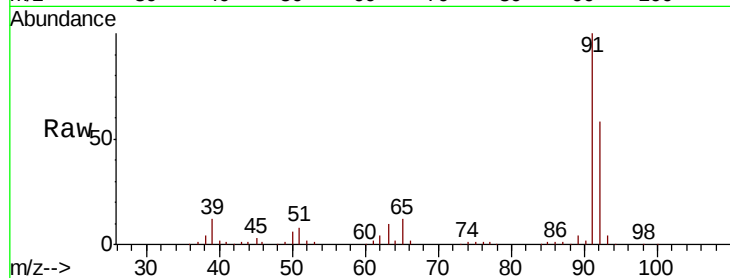
VSTD00521

Tot Ion: 91 Resp: 213242

Ion Ratio Lower Upper

91 100

92 58.4 40.7 75.5



Abundance Ion 91.15 (90.85 to 91.85): VU040028.D (-2049) (-)

Ion 92.15 (91.85 to 92.85): VU040028.D (-2049) (-)

7.98

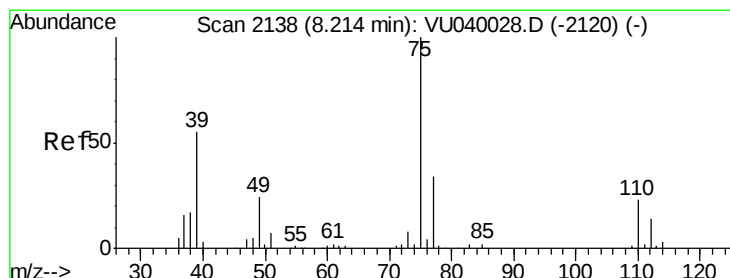
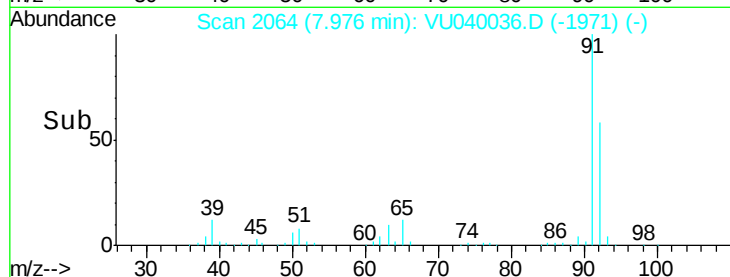
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.941 ug/L

RT: 8.21 min Scan# 2138

Delta R.T. -0.00 min

Lab File: VU040036.D

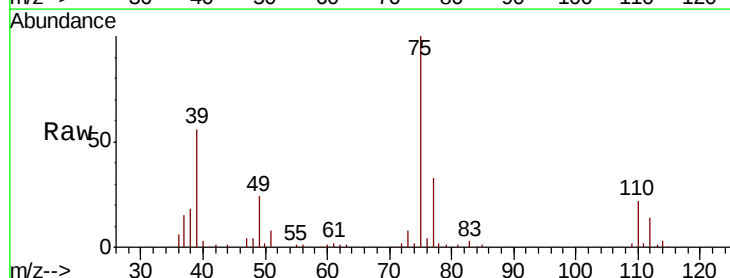
Acq: 03 Sep 2020 16:36

Tgt Ion: 75 Resp: 70932

Ion Ratio Lower Upper

75 100

77 32.6 23.9 44.3



Abundance Ion 75.05 (74.75 to 75.75): VU040028.D (-2120) (-)

Ion 77.05 (76.75 to 77.75): VU040028.D (-2120) (-)

8.21

50000

40000

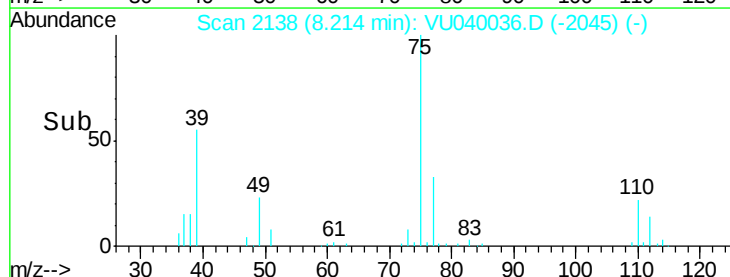
30000

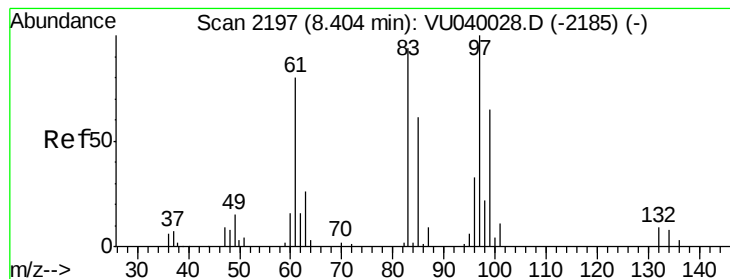
20000

10000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 5.491 ug/L

RT: 8.41 min Scan# 2198

Delta R.T. 0.00 min

Lab File: VU040036.D

Acq: 03 Sep 2020 16:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD00521

Tot Ion: 97 Resp: 42021

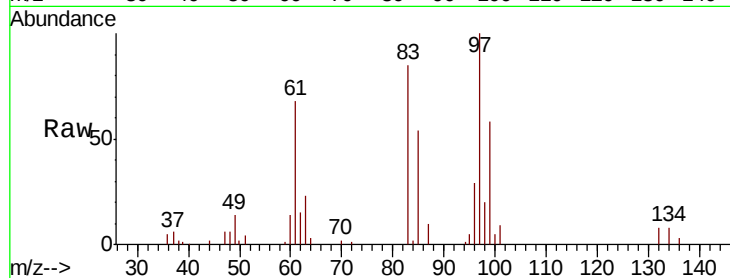
Ion Ratio Lower Upper

97 100

99 57.9 43.0 79.8

83 85.2 61.7 114.7

85 54.2 39.3 73.1

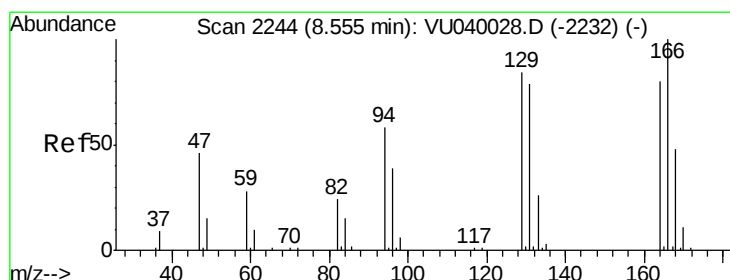
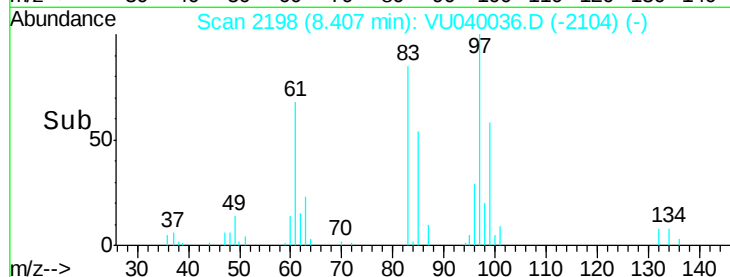
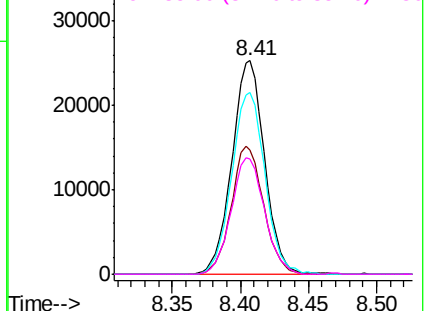


Abundance Ion 96.95 (96.65 to 97.65): VU040028.D (-2185) (-)

Ion 99.05 (98.75 to 99.75): VU040028.D (-2185) (-)

Ion 82.95 (82.65 to 83.65): VU040028.D (-2185) (-)

Ion 85.00 (84.70 to 85.70): VU040028.D (-2185) (-)



#47

Tetrachloroethene

Concen: 4.960 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.00 min

Lab File: VU040036.D

Acq: 03 Sep 2020 16:36

Tgt Ion: 164 Resp: 33911

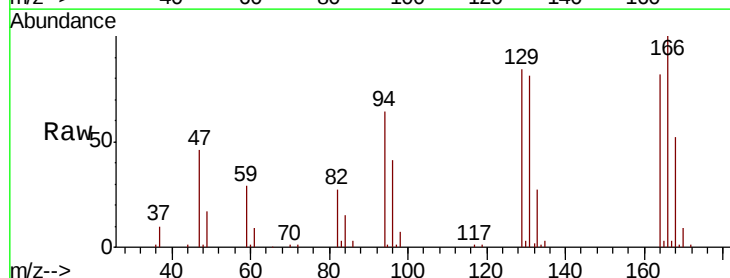
Ion Ratio Lower Upper

164 100

129 102.7 71.5 132.7

131 98.4 65.9 122.5

166 122.1 87.3 162.1

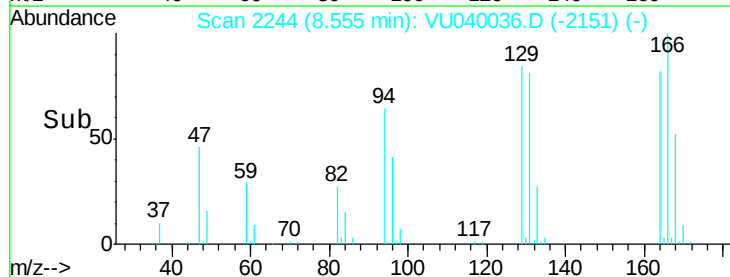
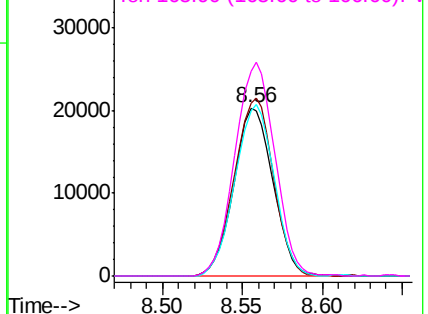


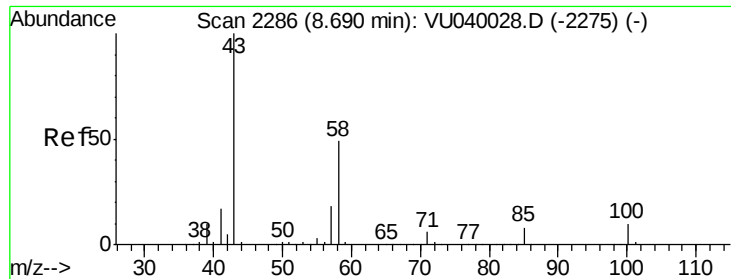
Abundance Ion 163.90 (163.60 to 164.60): VU040028.D (-2232) (-)

Ion 128.95 (128.65 to 129.65): VU040028.D (-2232) (-)

Ion 130.95 (130.65 to 131.65): VU040028.D (-2232) (-)

Ion 165.90 (165.60 to 166.60): VU040028.D (-2232) (-)

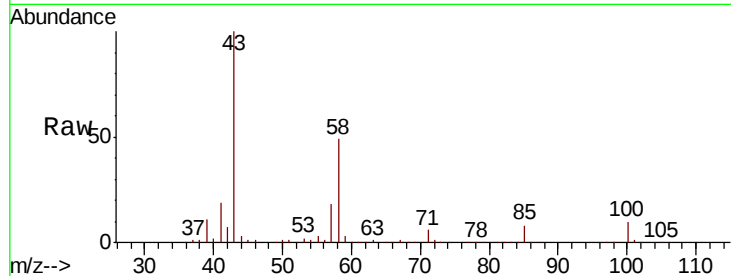




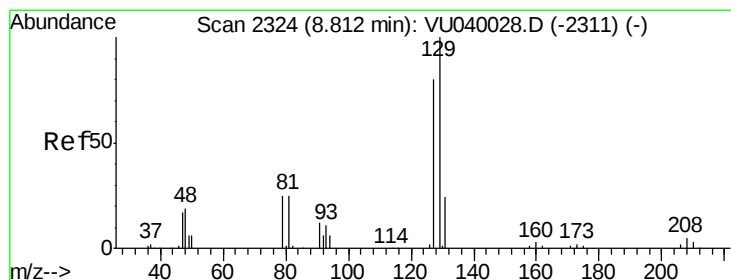
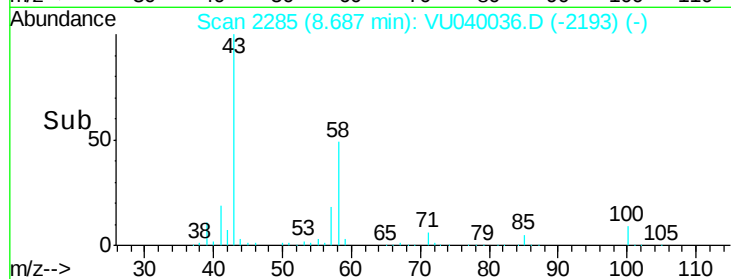
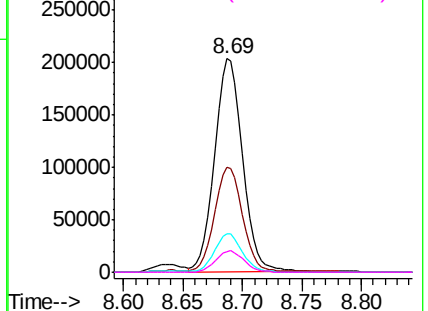
#48
2-Hexanone
Concen: 52.828 ug/L
RT: 8.69 min Scan# 2285
Delta R.T. -0.00 min
Lab File: VU040036.D
Acq: 03 Sep 2020 16:36

Instrument :
MSVOA_U
ClientSampleId :
VSTD00521

Tot Ion:	43	Resp:	332155
Ion	Ratio	Lower	Upper
43	100		
58	49.3	39.6	59.4
57	18.0	14.3	21.5
100	10.1	8.0	12.0

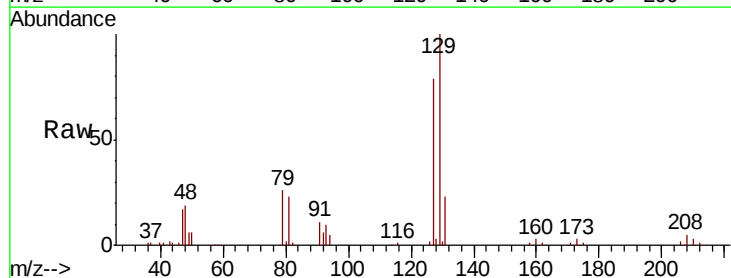


Abundance Ion 43.05 (42.75 to 43.75): VU040028.D (-2275) (-)
Ion 58.05 (57.75 to 58.75): VU040028.D (-2275) (-)
Ion 57.20 (56.90 to 57.90): VU040028.D (-2275) (-)
Ion 100.15 (99.85 to 100.85): VU040028.D (-2275) (-)

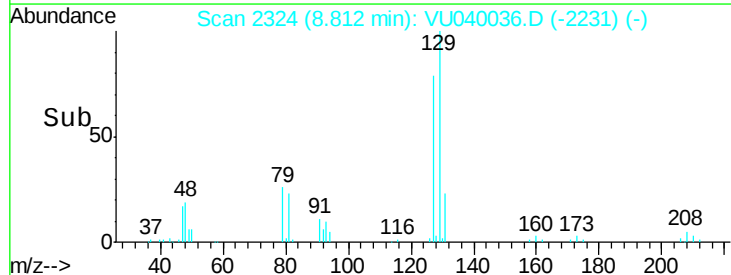
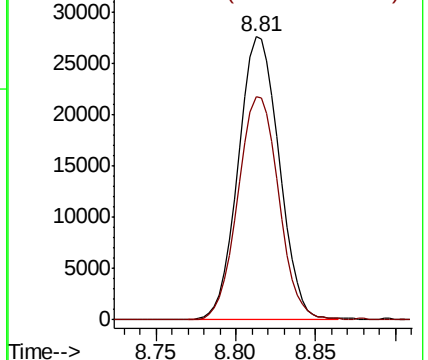


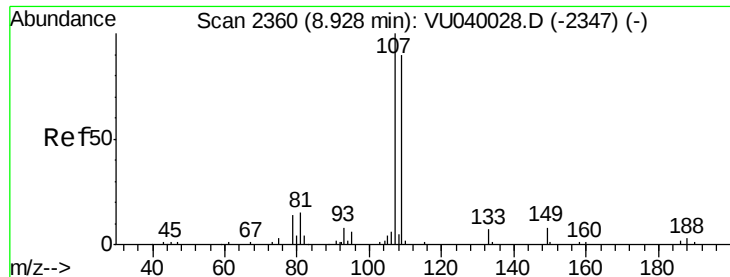
#49
Dibromochloromethane
Concen: 5.235 ug/L
RT: 8.81 min Scan# 2324
Delta R.T. -0.00 min
Lab File: VU040036.D
Acq: 03 Sep 2020 16:36

Tgt Ion:	129	Resp:	48086
Ion	Ratio	Lower	Upper
129	100		
127	78.9	53.7	99.7



Abundance Ion 128.95 (128.65 to 129.65): VU040028.D (-2311) (-)
Ion 126.90 (126.60 to 127.60): VU040028.D (-2311) (-)

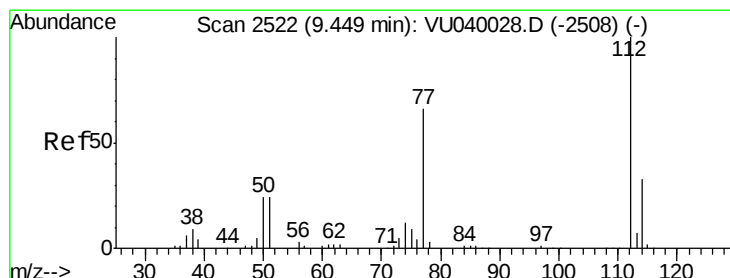
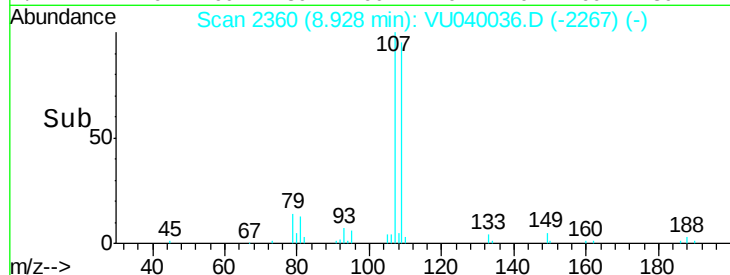
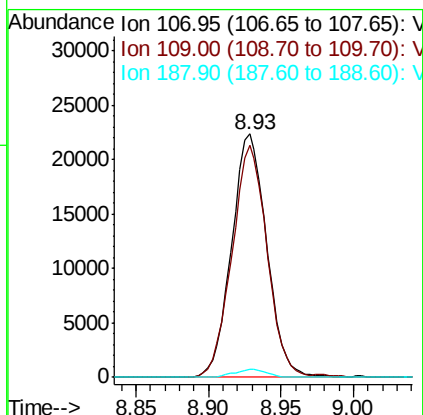
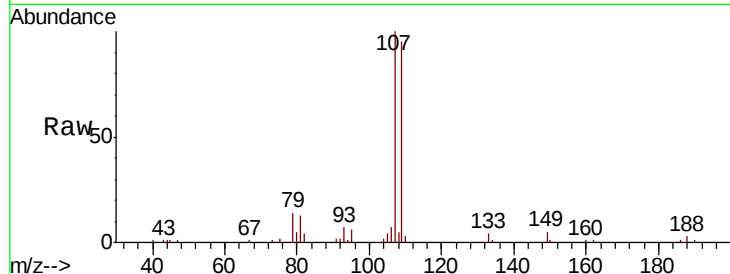




#50
 1,2-Dibromoethane
 Concen: 5.107 ug/L
 RT: 8.93 min Scan# 2360
 Delta R.T. -0.00 min
 Lab File: VU040036.D
 Acq: 03 Sep 2020 16:36

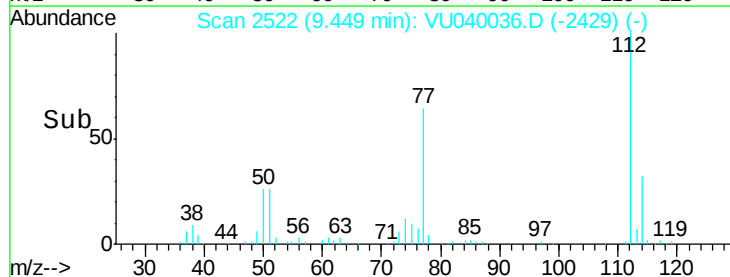
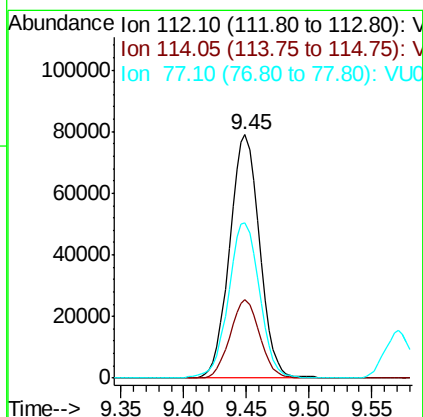
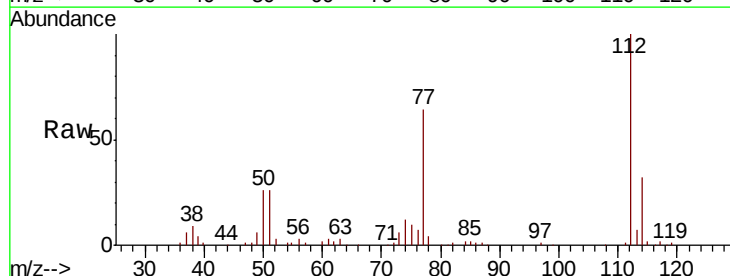
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00521

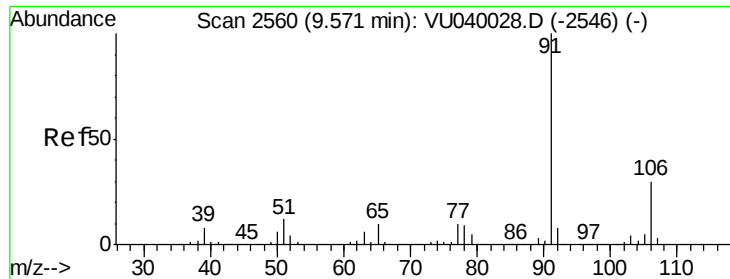
Tot Ion	Ratio	Lower	Upper
107	100		
109	95.5	62.4	115.8
188	3.2	2.3	3.5



#51
 Chlorobenzene
 Concen: 5.292 ug/L
 RT: 9.45 min Scan# 2522
 Delta R.T. -0.00 min
 Lab File: VU040036.D
 Acq: 03 Sep 2020 16:36

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.2	22.7	42.3
77	63.9	53.2	79.8





#52

Ethylbenzene

Concen: 5.196 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. -0.00 min

Lab File: VU040036.D

Acq: 03 Sep 2020 16:36

Instrument :

MSVOA_U

ClientSampleId :

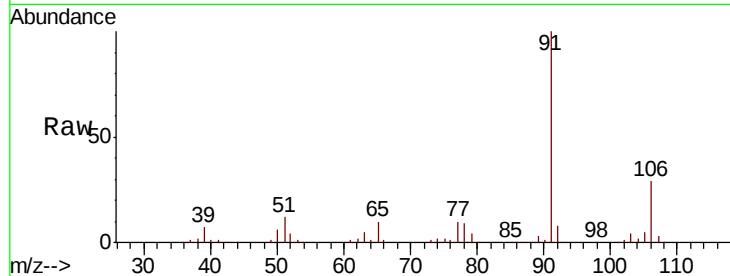
VSTD00521

Tot Ion: 91 Resp: 235882

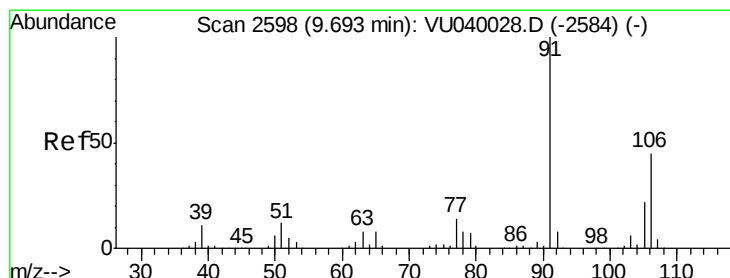
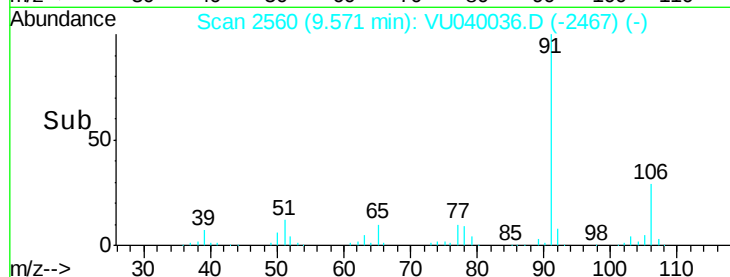
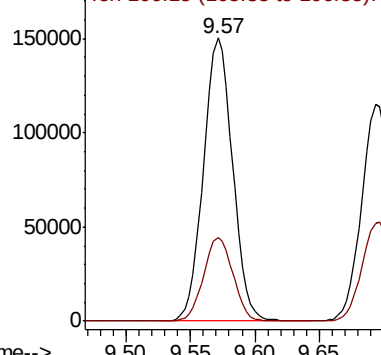
Ion Ratio Lower Upper

91 100

106 29.5 21.0 39.0



Abundance Ion 91.15 (90.85 to 91.85): VU040028.D (-2546) (-)



#53

m,p-Xylene

Concen: 5.415 ug/L

RT: 9.70 min Scan# 2599

Delta R.T. 0.00 min

Lab File: VU040036.D

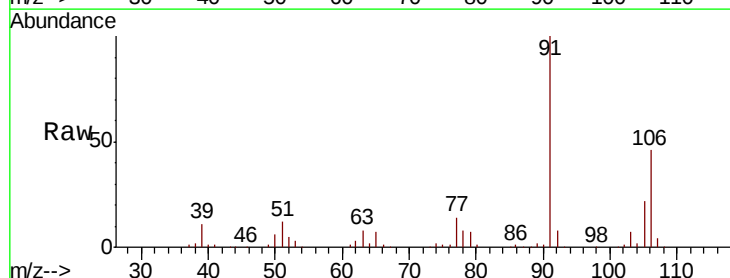
Acq: 03 Sep 2020 16:36

Tgt Ion: 106 Resp: 87529

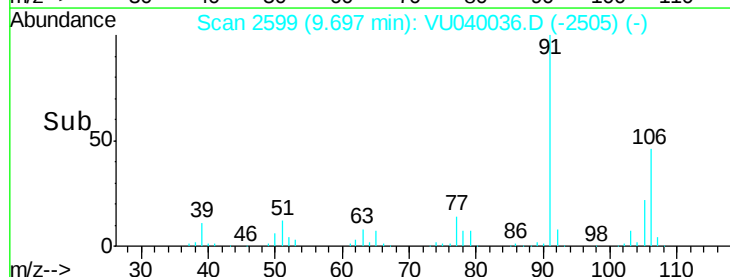
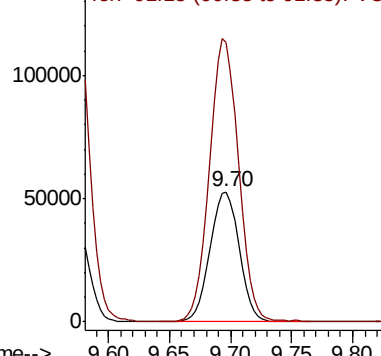
Ion Ratio Lower Upper

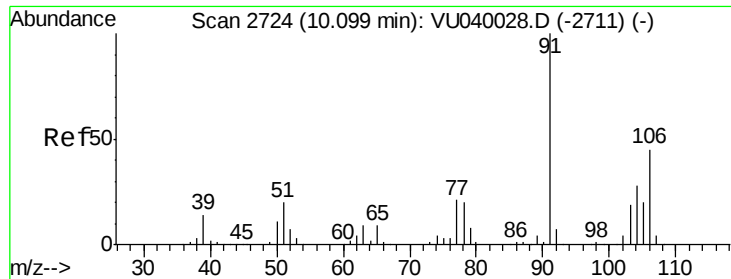
106 100

91 215.3 151.7 281.7



Abundance Ion 106.15 (105.85 to 106.85): VU040028.D (-2584) (-)

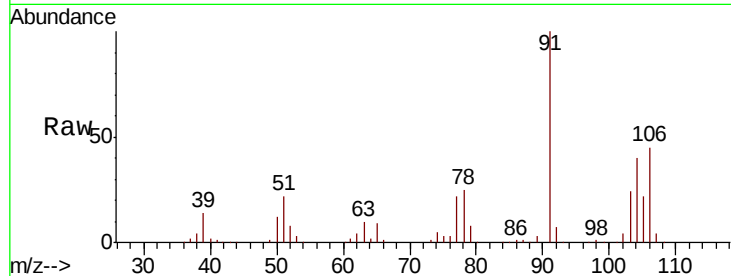




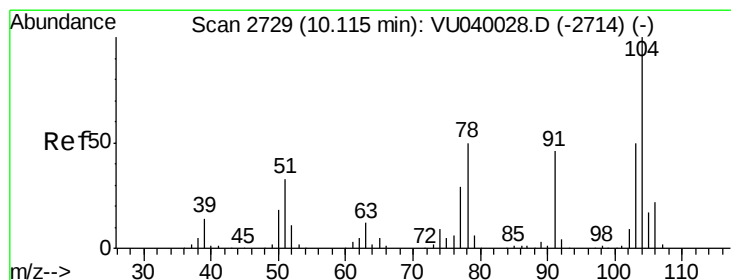
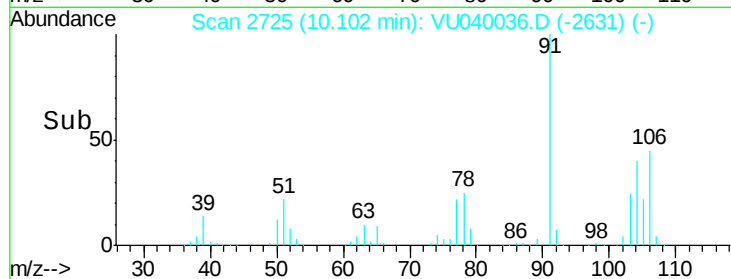
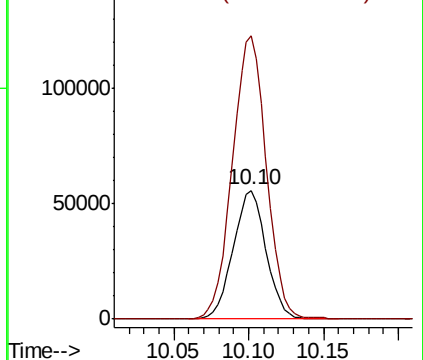
#54
o-Xylene
Concen: 5.538 ug/L
RT: 10.10 min Scan# 2725
Delta R.T. 0.00 min
Lab File: VU040036.D
Acq: 03 Sep 2020 16:36

Instrument :
MSVOA_U
ClientSampleId :
VSTD00521

Tot Ion:106 Resp: 85302
Ion Ratio Lower Upper
106 100
91 220.0 160.8 298.6

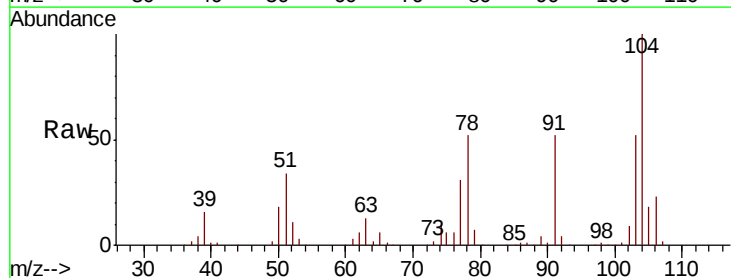


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

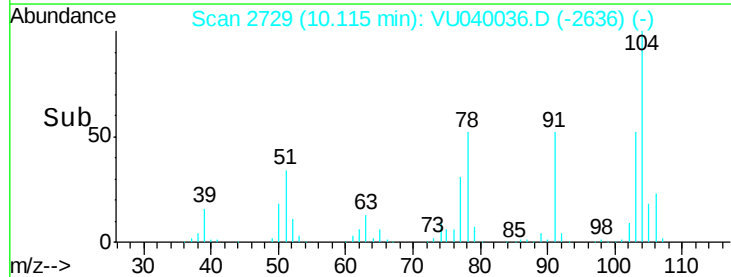
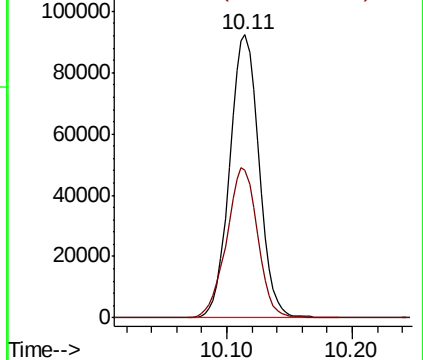


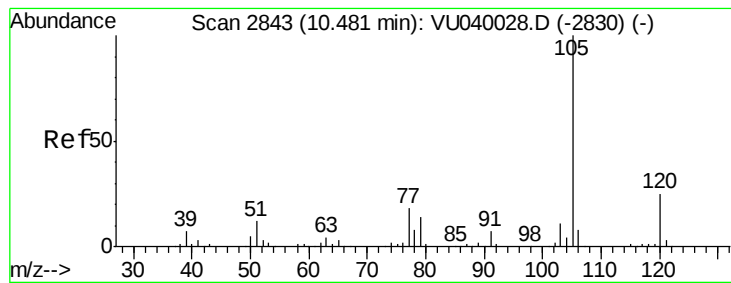
#55
Styrene
Concen: 5.610 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. -0.00 min
Lab File: VU040036.D
Acq: 03 Sep 2020 16:36

Tgt Ion:104 Resp: 150273
Ion Ratio Lower Upper
104 100
78 52.2 36.8 68.3



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





#56

Isopropylbenzene

Concen: 5.493 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. 0.00 min

Lab File: VU040036.D

Acq: 03 Sep 2020 16:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD00521

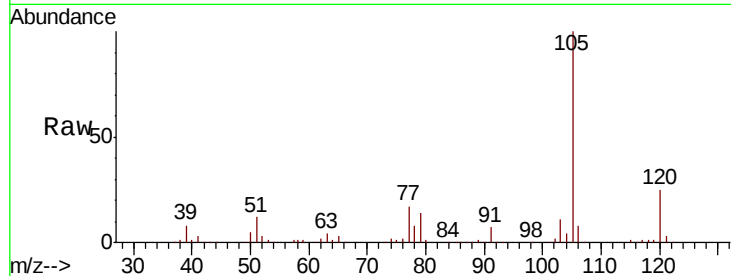
Tot Ion:105 Resp: 230735

Ion Ratio Lower Upper

105 100

120 25.2 20.1 30.1

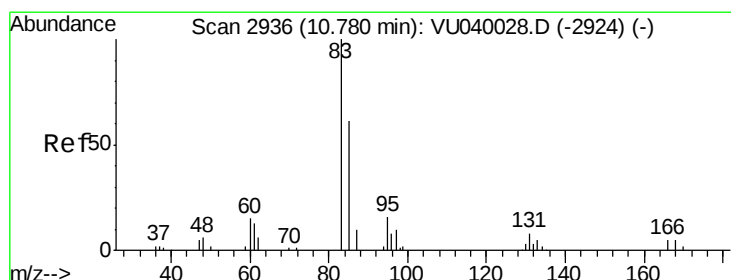
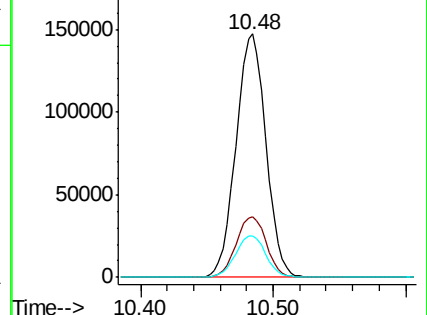
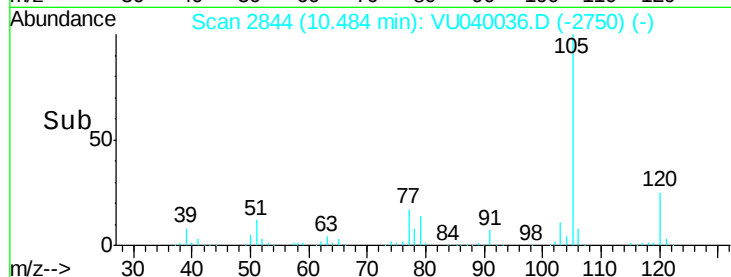
77 17.5 14.4 21.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.424 ug/L

RT: 10.78 min Scan# 2936

Delta R.T. -0.00 min

Lab File: VU040036.D

Acq: 03 Sep 2020 16:36

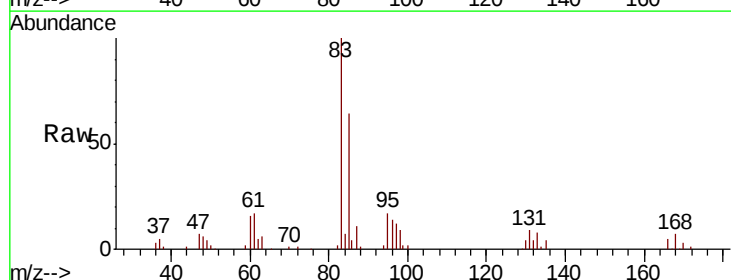
Tgt Ion: 83 Resp: 53223

Ion Ratio Lower Upper

83 100

85 63.9 44.9 83.3

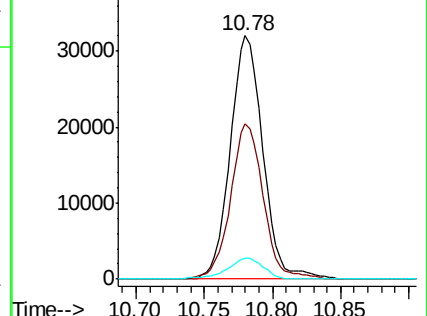
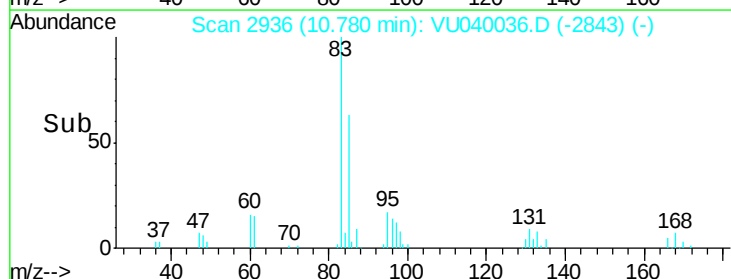
131 8.8 7.4 11.0

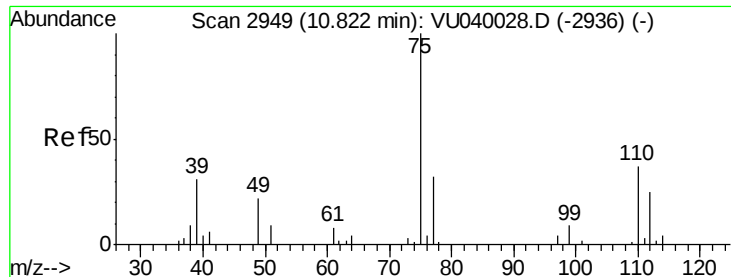


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

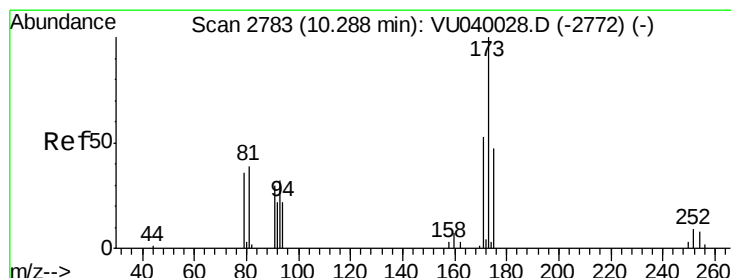
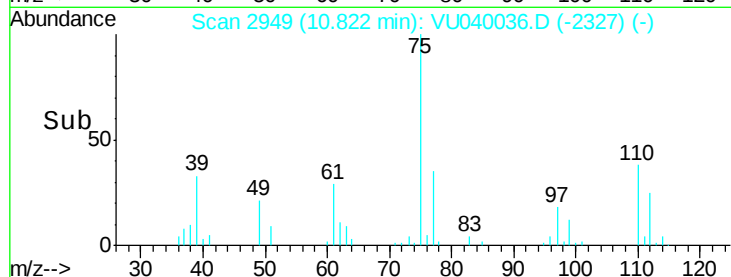
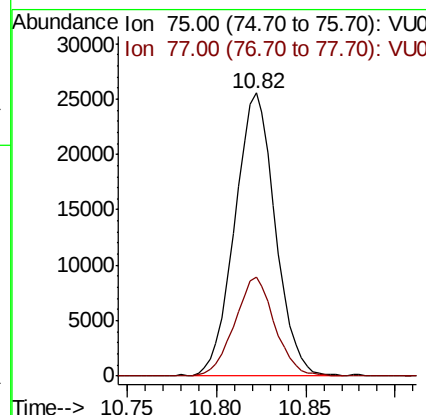
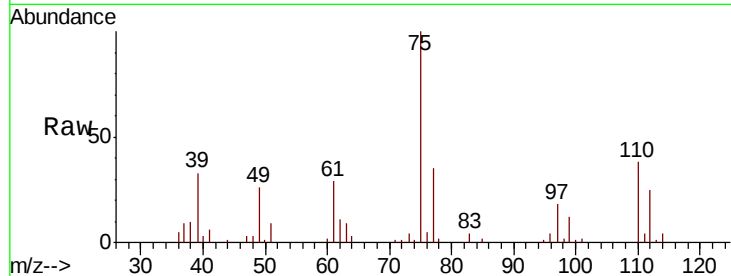




#59
 1,2,3-Trichloropropane
 Concen: 5.187 ug/L
 RT: 10.82 min Scan# 2949
 Delta R.T. -0.00 min
 Lab File: VU040036.D
 Acq: 03 Sep 2020 16:36

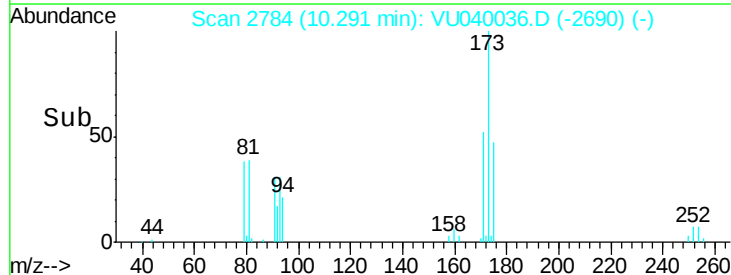
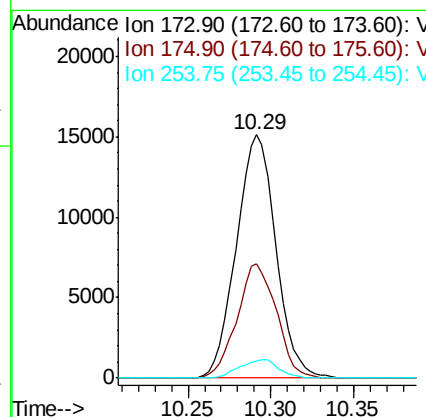
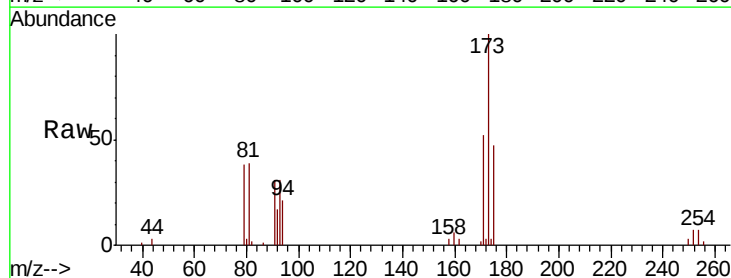
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00521

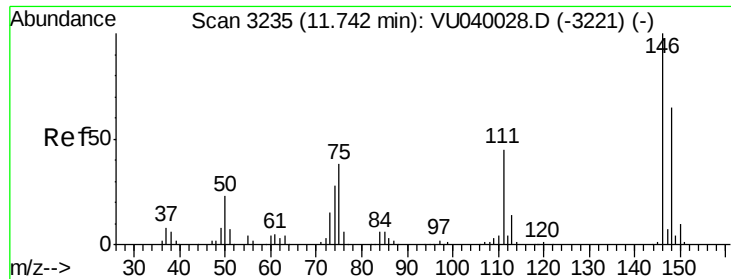
Tot Ion: 75 Resp: 40369
 Ion Ratio Lower Upper
 75 100
 77 34.7 24.9 37.3



#61
 Bromoform
 Concen: 5.035 ug/L
 RT: 10.29 min Scan# 2784
 Delta R.T. 0.00 min
 Lab File: VU040036.D
 Acq: 03 Sep 2020 16:36

Tgt Ion: 173 Resp: 25045
 Ion Ratio Lower Upper
 173 100
 175 46.6 37.8 56.6
 254 7.5 6.8 10.2





#62

1,3-Dichlorobenzene

Concen: 5.353 ug/L

RT: 11.74 min Scan# 3235

Delta R.T. -0.00 min

Lab File: VU040036.D

Acq: 03 Sep 2020 16:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD00521

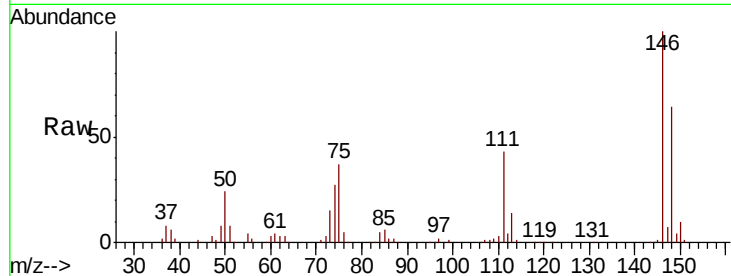
Tot Ion:146 Resp: 106107

Ion Ratio Lower Upper

146 100

111 43.2 31.6 58.8

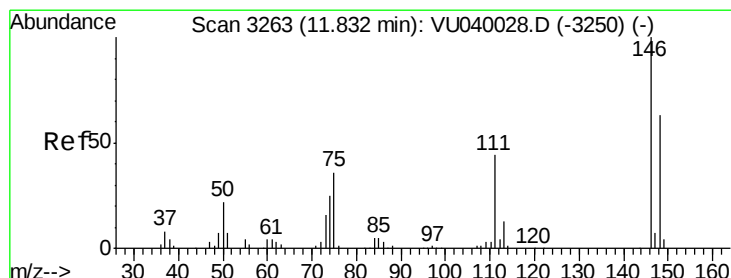
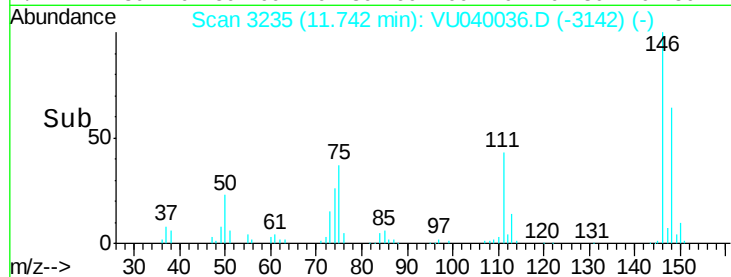
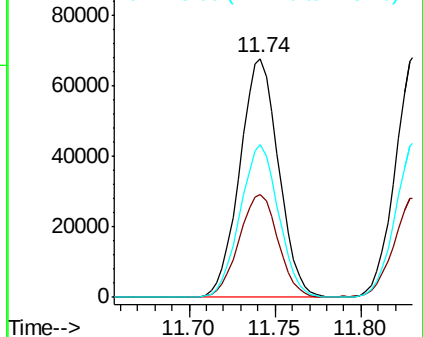
148 63.9 44.2 82.0



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 5.281 ug/L

RT: 11.83 min Scan# 3263

Delta R.T. -0.00 min

Lab File: VU040036.D

Acq: 03 Sep 2020 16:36

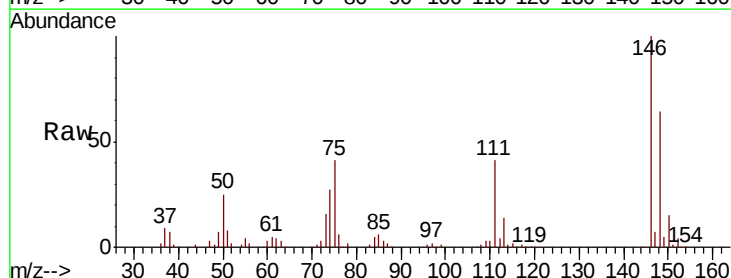
Tgt Ion:146 Resp: 105909

Ion Ratio Lower Upper

146 100

111 41.1 30.5 56.7

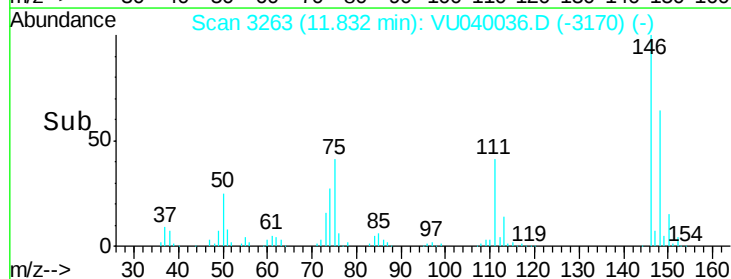
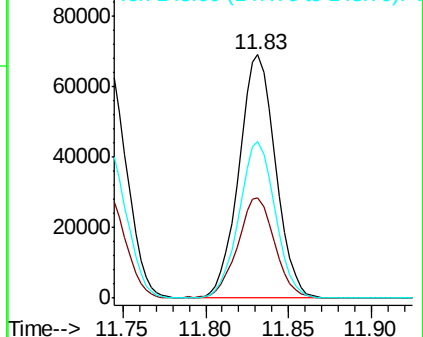
148 64.2 45.4 84.4

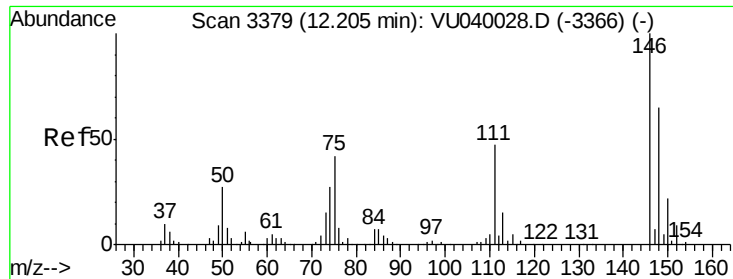


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 5.335 ug/L

RT: 12.21 min Scan# 3380

Delta R.T. 0.00 min

Lab File: VU040036.D

Acq: 03 Sep 2020 16:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD00521

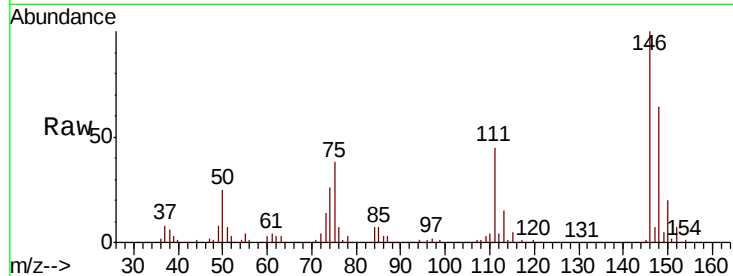
Tot Ion:146 Resp: 102316

Ion Ratio Lower Upper

146 100

111 44.8 36.5 54.7

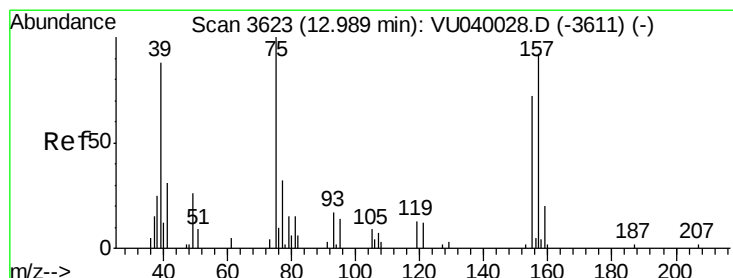
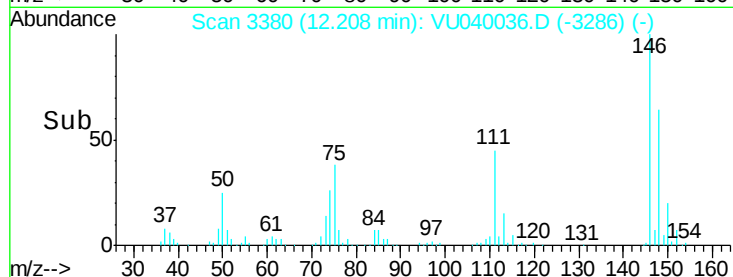
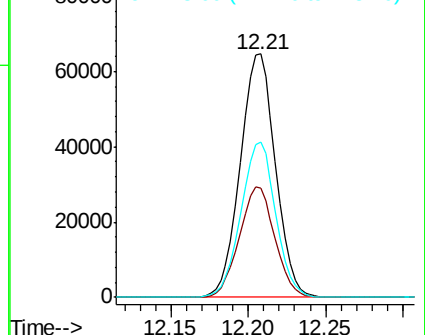
148 63.9 48.6 72.8



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 4.927 ug/L

RT: 12.99 min Scan# 3623

Delta R.T. -0.00 min

Lab File: VU040036.D

Acq: 03 Sep 2020 16:36

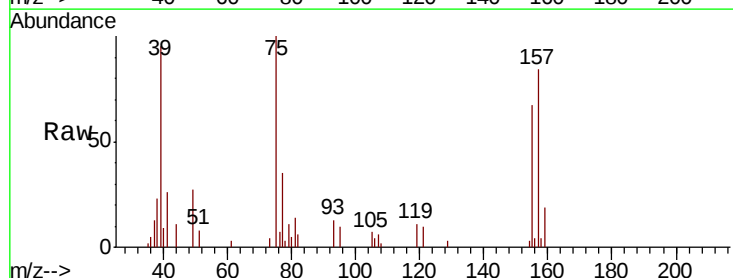
Tgt Ion: 75 Resp: 10106

Ion Ratio Lower Upper

75 100

155 66.9 54.6 82.0

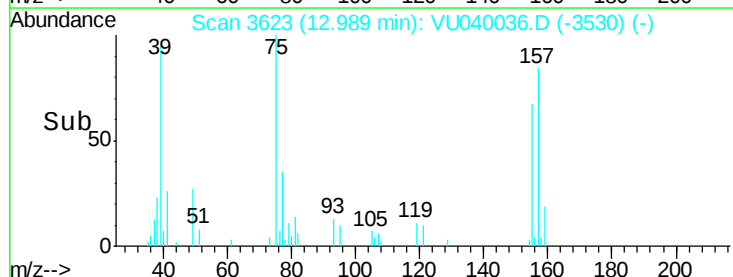
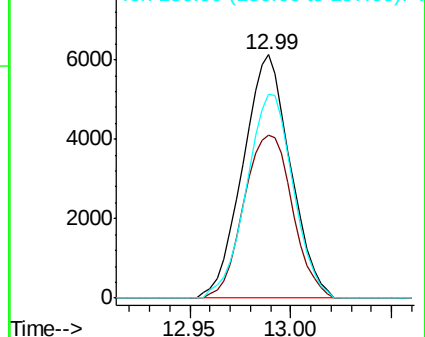
157 83.9 75.6 113.4

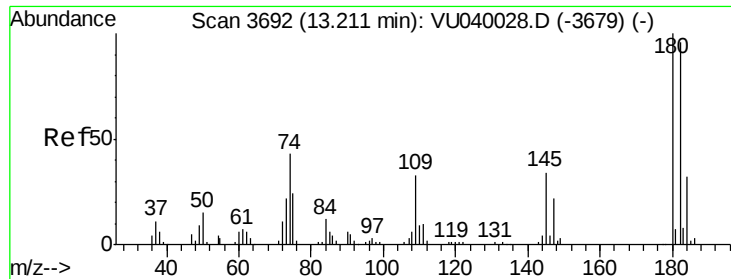


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

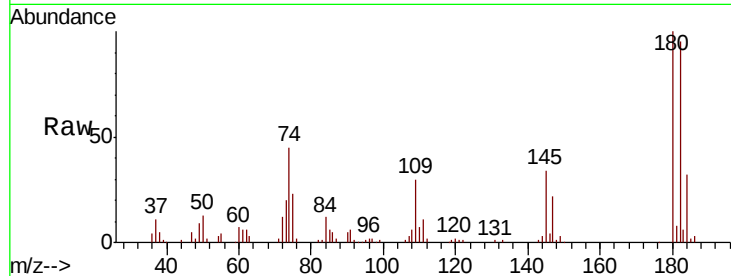




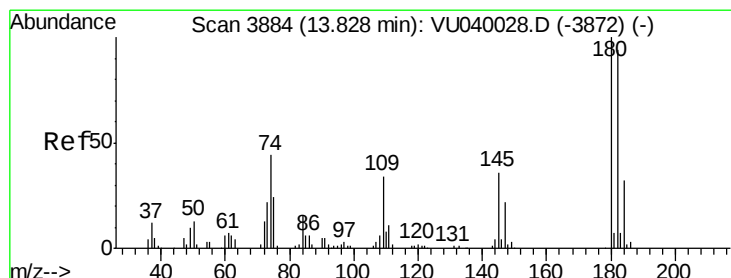
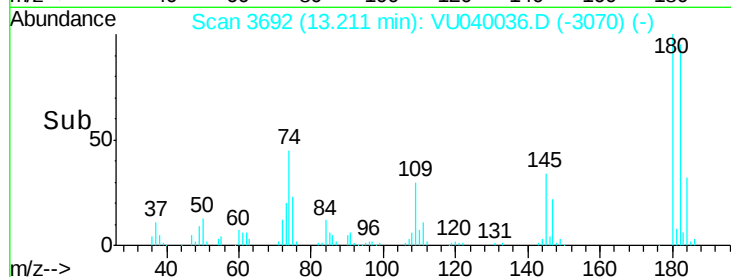
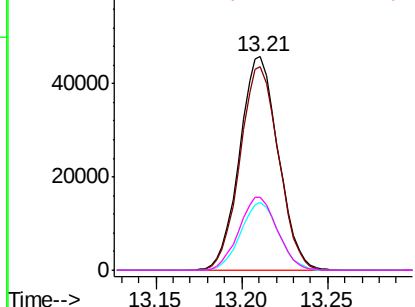
#67
 1,3,5-Trichlorobenzene
 Concen: 5.125 ug/L
 RT: 13.21 min Scan# 3692
 Delta R.T. -0.00 min
 Lab File: VU040036.D
 Acq: 03 Sep 2020 16:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00521

Tot Ion:180 Resp: 71422
 Ion Ratio Lower Upper
 180 100
 182 95.2 76.9 115.3
 184 30.9 24.6 36.8
 145 34.0 27.0 40.6

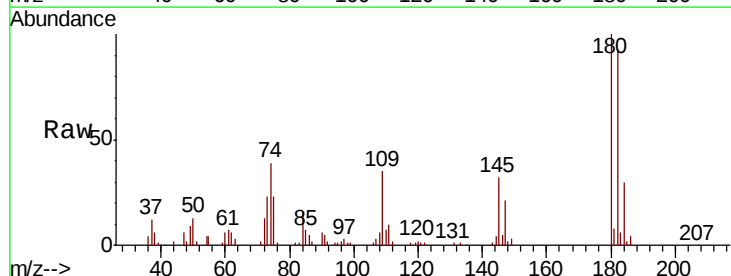


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

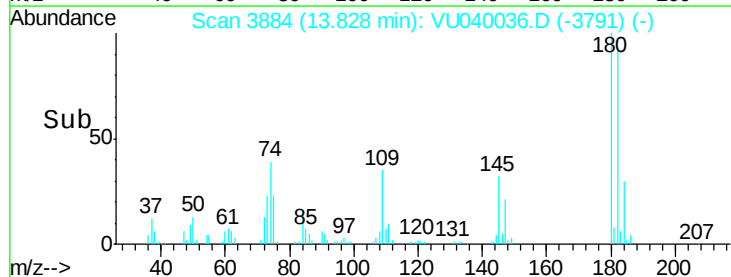
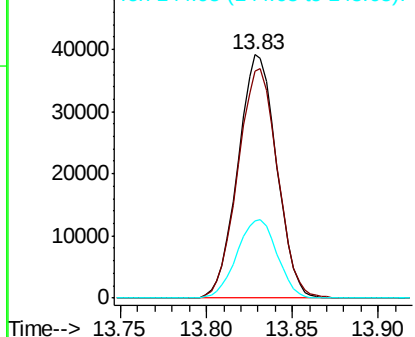


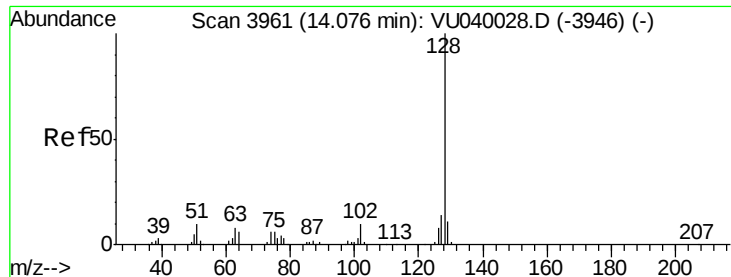
#68
 1,2,4-trichlorobenzene
 Concen: 5.082 ug/L
 RT: 13.83 min Scan# 3884
 Delta R.T. -0.00 min
 Lab File: VU040036.D
 Acq: 03 Sep 2020 16:36

Tgt Ion:180 Resp: 61005
 Ion Ratio Lower Upper
 180 100
 182 96.7 76.0 114.0
 145 33.5 28.4 42.6



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: 4.705 ug/L

RT: 14.08 min Scan# 3961

Delta R.T. -0.00 min

Lab File: VU040036.D

Acq: 03 Sep 2020 16:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD00521

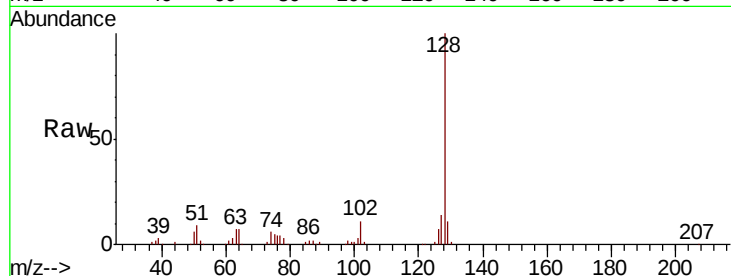
Tot Ion:128 Resp: 117731

Ion Ratio Lower Upper

128 100

129 10.8 8.7 13.1

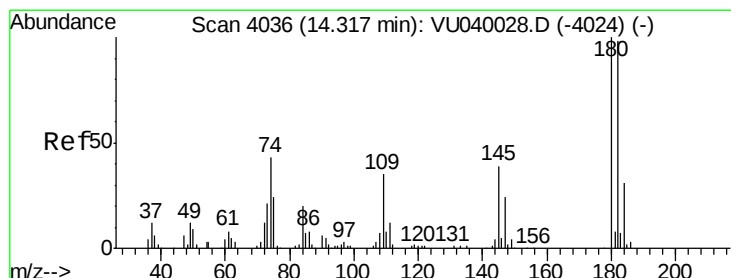
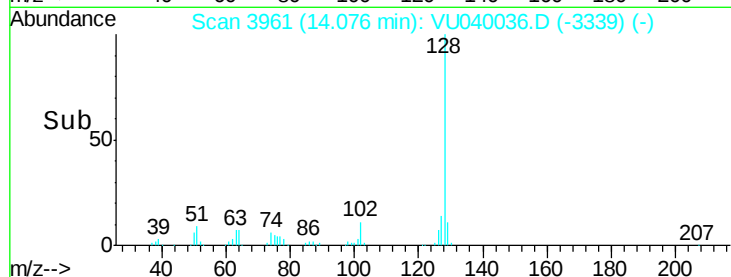
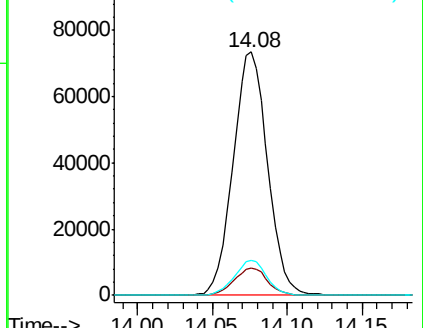
127 13.5 10.7 16.1



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: 5.148 ug/L

RT: 14.32 min Scan# 4036

Delta R.T. -0.00 min

Lab File: VU040036.D

Acq: 03 Sep 2020 16:36

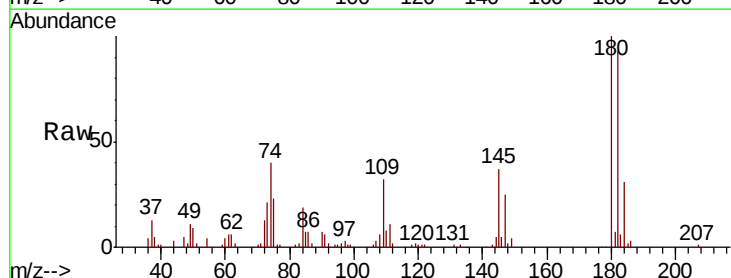
Tgt Ion:180 Resp: 56767

Ion Ratio Lower Upper

180 100

182 91.2 77.8 116.6

145 36.5 28.7 43.1



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

