

Data File : VU031793.D
Acq On : 07 May 2019 10:36
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05037

Quant Time: May 08 06:45:38 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis
QLast Update : Tue May 07 08:38:32 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	690425	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	681083	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	290390	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	290258	50.23	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	100.46%
7) Chloroethane-d5	1.68	69	215566	48.28	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	96.56%
11) 1,1-Dichloroethene-d2	2.27	63	582192	50.59	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	101.18%
21) 2-Butanone-d5	4.18	46	568051	108.50	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	108.50%
24) Chloroform-d	4.64	84	517263	48.88	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.76%
26) 1,2-Dichloroethane-d4	5.31	65	356033	51.49	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.98%
32) Benzene-d6	5.33	84	996144	47.63	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.26%
36) 1,2-Dichloropropane-d6	6.32	67	349656	47.52	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.04%
41) Toluene-d8	7.56	98	866403	47.56	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.12%
43) trans-1,3-Dichloropropene-	7.85	79	152596	48.31	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.62%
47) 2-Hexanone-d5	8.31	63	322624	101.30	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	101.30%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	461528	46.74	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	93.48%
64) 1,2-Dichlorobenzene-d4	11.86	152	279338	45.74	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.48%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	330680	43.555 ug/L	98
3) Chloromethane	1.32	50	391395	42.609 ug/L	99
5) Vinyl chloride	1.40	62	357711	41.652 ug/L	98
6) Bromomethane	1.63	94	170304	37.603 ug/L	97
8) Chloroethane	1.70	64	197463	42.063 ug/L	98
9) Trichlorofluoromethane	1.88	101	422671	43.173 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	245774	44.409 ug/L	96
12) 1,1-Dichloroethene	2.28	96	227805	42.290 ug/L	90
13) Acetone	2.34	43	562439	95.371 ug/L	96
14) Carbon disulfide	2.47	76	715486	40.027 ug/L	99
15) Methyl Acetate	2.62	43	450463	50.481 ug/L	99
16) Methylene chloride	2.70	84	291674	45.882 ug/L	90
17) trans-1,2-Dichloroethene	2.98	96	239941	42.748 ug/L	93
18) Methyl tert-butyl Ether	2.99	73	895457	50.074 ug/L	97
19) 1,1-Dichloroethane	3.44	63	580984	49.149 ug/L	98
20) cis-1,2-Dichloroethene	4.22	96	279928	46.492 ug/L	85
22) 2-Butanone	4.27	43	708744	108.475 ug/L	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	127948	43.733	ug/L	89
25) Chloroform	4.67	83	536592	47.470	ug/L	98
27) 1,2-Dichloroethane	5.40	62	467501	50.917	ug/L	95
29) Cyclohexane	4.99	56	503127	46.676	ug/L	98
30) 1,1,1-Trichloroethane	4.91	97	440055	46.114	ug/L	97
31) Carbon tetrachloride	5.13	117	361926	44.373	ug/L	99
33) Benzene	5.38	78	1163751	46.474	ug/L	100
34) Trichloroethene	6.18	95	279266	46.008	ug/L	95
35) Methylcyclohexane	6.41	83	419834	46.152	ug/L	95
37) 1,2-Dichloropropane	6.43	63	346517	48.745	ug/L	99
38) Bromodichloromethane	6.75	83	403475	46.810	ug/L	96
39) cis-1,3-Dichloropropene	7.27	75	463369	49.329	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	1178143	107.719	ug/L	96
42) Toluene	7.63	91	1176899	47.182	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	422005	49.532	ug/L	97
45) 1,1,2-Trichloroethane	8.06	97	275847	47.069	ug/L	99
46) Tetrachloroethene	8.22	164	176447	42.640	ug/L	98
48) 2-Hexanone	8.36	43	969875	109.641	ug/L	96
49) Dibromochloromethane	8.47	129	276868	45.405	ug/L	100
50) 1,2-Dibromoethane	8.58	107	279826	45.210	ug/L	98
51) Chlorobenzene	9.12	112	668276	45.337	ug/L	99
52) Ethylbenzene	9.25	91	1240452	47.941	ug/L	100
53) m,p-Xylene	9.37	106	440411	48.853	ug/L	97
54) o-xylene	9.77	106	434399	48.604	ug/L	98
55) Styrene	9.79	104	752166	49.259	ug/L	95
56) Isopropylbenzene	10.16	105	1142289	48.604	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	494272	47.529	ug/L	96
59) 1,2,3-Trichloropropane	10.49	75	408360	48.450	ug/L	99
61) Bromoform	9.95	173	188631	43.821	ug/L	98
62) 1,3-Dichlorobenzene	11.41	146	448485	46.657	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	455270	45.733	ug/L	98
65) 1,2-Dichlorobenzene	11.87	146	481806	47.162	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	111048	46.836	ug/L	97
67) 1,3,5-Trichlorobenzene	12.88	180	327200	45.447	ug/L	97
68) 1,2,4-trichlorobenzene	13.50	180	266617	46.778	ug/L	98
69) Naphthalene	13.74	128	977707	50.312	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	295104	45.478	ug/L	98

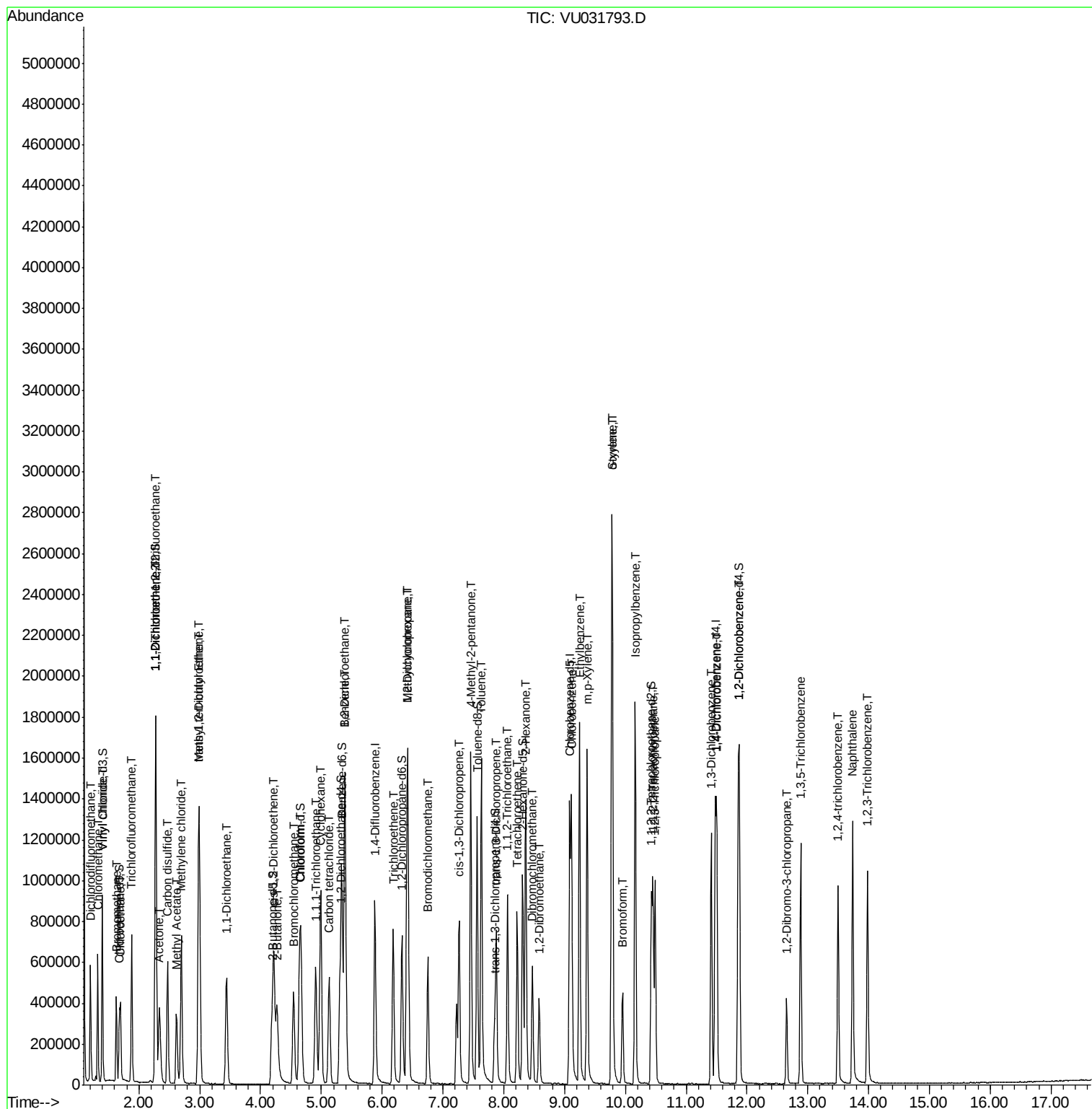
(#) = qualifier out of range (m) = manual integration (+) = signals summed

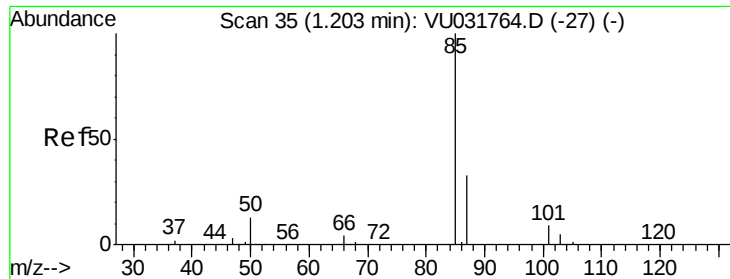
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```
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#2

Dichlorodifluoromethane

Concen: 43.555 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU031793.D

Acq: 07 May 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

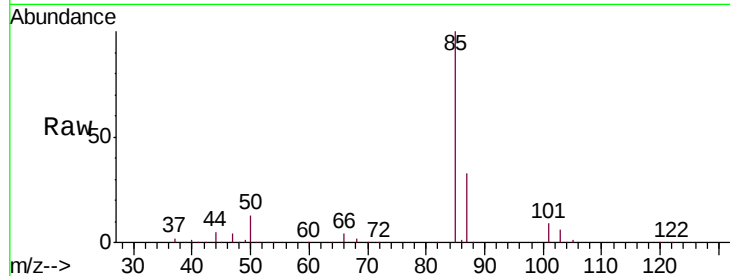
VSTD05037

Tgt Ion: 85 Resp: 330680

Ion Ratio Lower Upper

85 100

87 32.6 25.4 38.0



Abundance Ion 85.00 (84.70 to 85.70): VU031764.D (-27) (-)

Ion 87.00 (86.70 to 87.70): VU031764.D (-27) (-)

1.20

300000

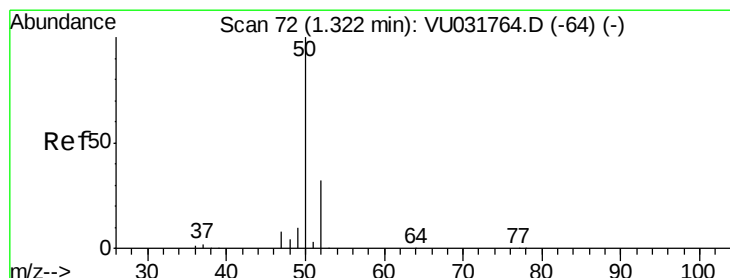
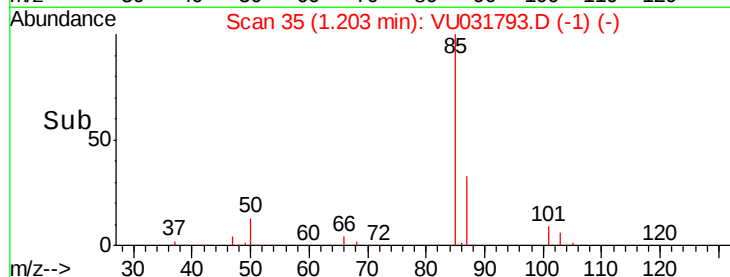
200000

100000

0

1.15 1.20 1.25

Time-->



#3

Chloromethane

Concen: 42.609 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU031793.D

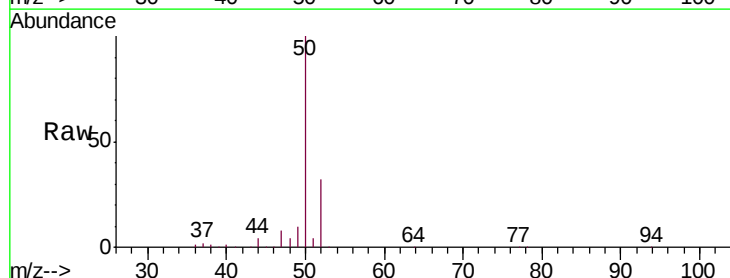
Acq: 07 May 2019 10:36

Tgt Ion: 50 Resp: 391395

Ion Ratio Lower Upper

50 100

52 32.0 22.6 42.0



Abundance Ion 50.00 (49.70 to 50.70): VU031764.D (-64) (-)

Ion 52.00 (51.70 to 52.70): VU031764.D (-64) (-)

1.32

400000

300000

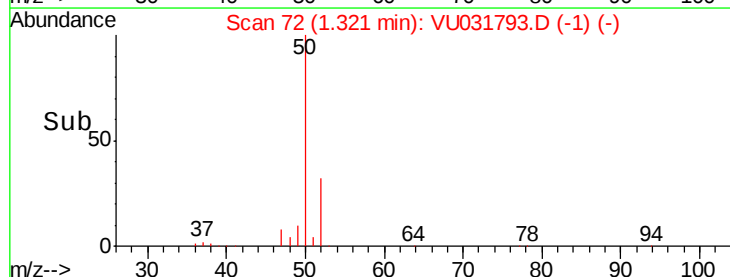
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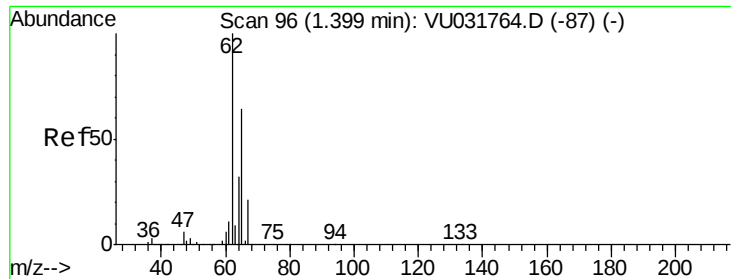
100000

0

1.30 1.32 1.35 1.40

Time-->





#5

Vinyl chloride

Concen: 41.652 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU031793.D

Acq: 07 May 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

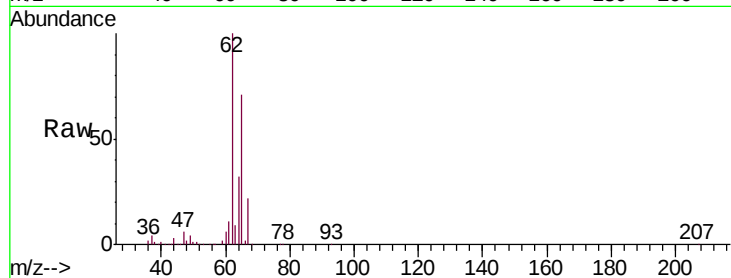
VSTD05037

Tgt Ion: 62 Resp: 357711

Ion Ratio Lower Upper

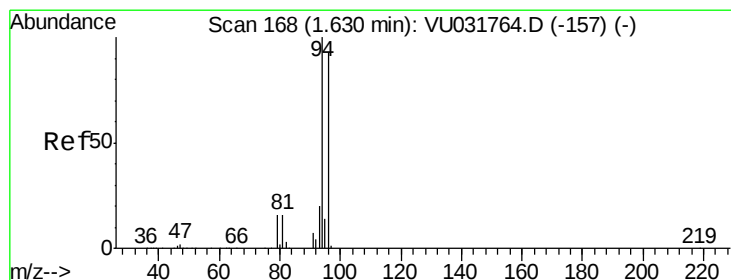
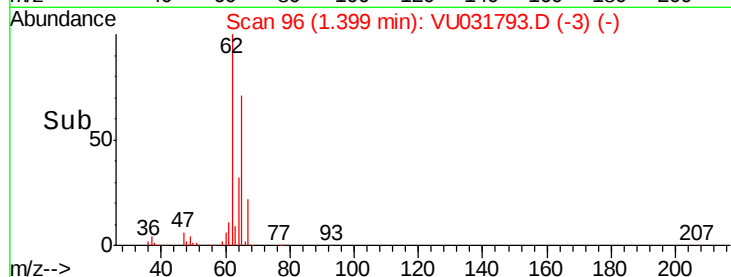
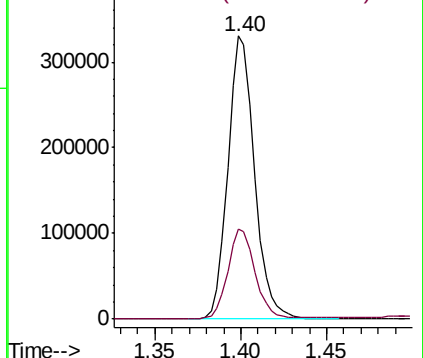
62 100

64 32.0 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VU031764.D (-87) (-)

Ion 64.00 (63.70 to 64.70): VU031764.D (-87) (-)



#6

Bromomethane

Concen: 37.603 ug/L

RT: 1.63 min Scan# 168

Delta R.T. -0.00 min

Lab File: VU031793.D

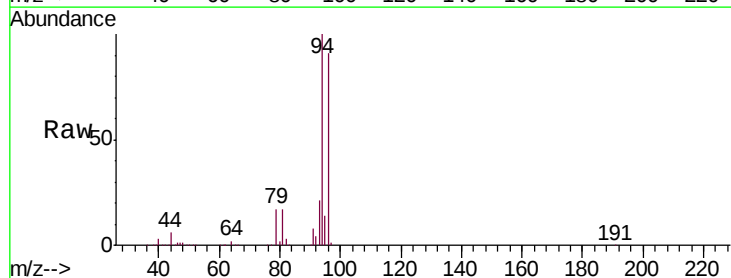
Acq: 07 May 2019 10:36

Tgt Ion: 94 Resp: 170304

Ion Ratio Lower Upper

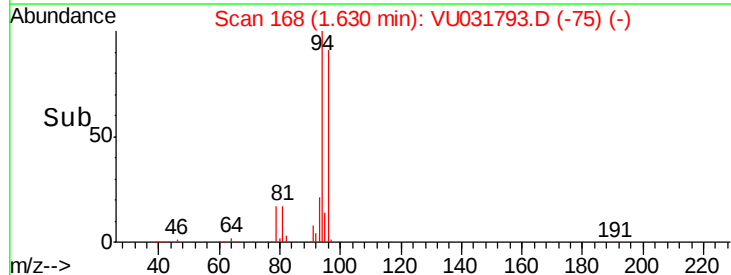
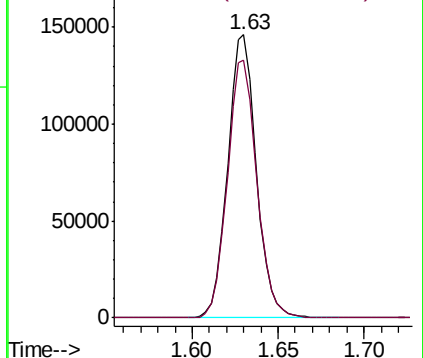
94 100

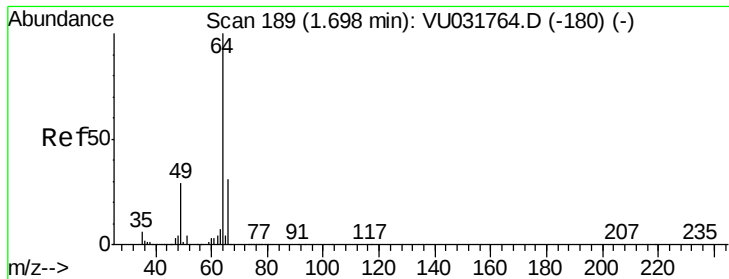
96 91.1 65.9 122.5



Abundance Ion 94.00 (93.70 to 94.70): VU031764.D (-157) (-)

Ion 96.00 (95.70 to 96.70): VU031764.D (-157) (-)





#8

Chloroethane

Concen: 42.063 ug/L

RT: 1.70 min Scan# 189

Delta R.T. -0.00 min

Lab File: VU031793.D

Acq: 07 May 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

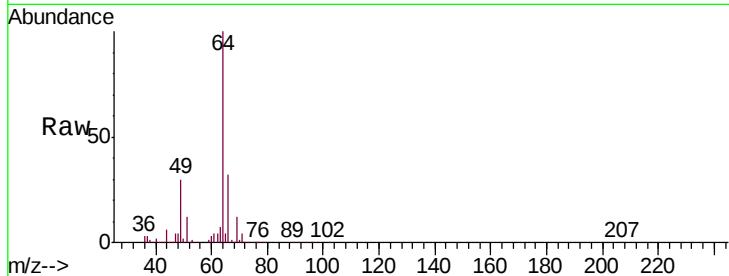
VSTD05037

Tgt Ion: 64 Resp: 197463

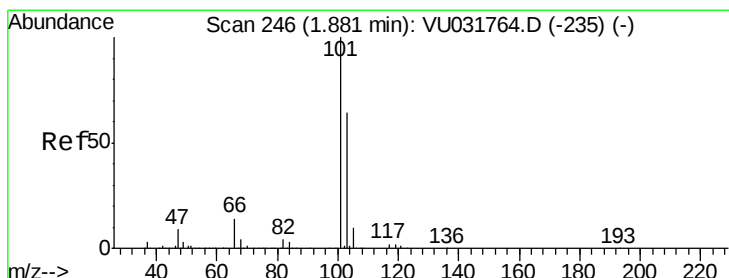
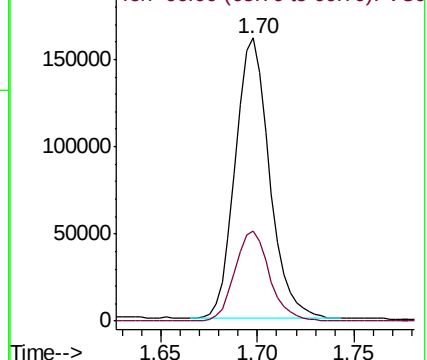
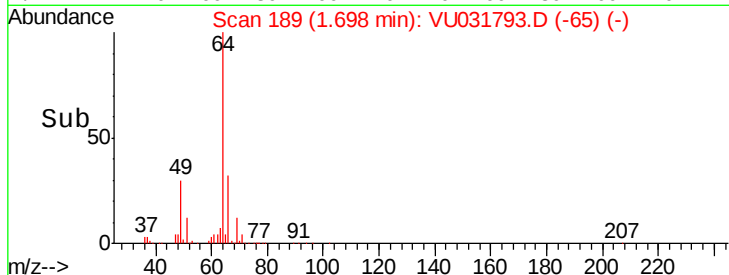
Ion Ratio Lower Upper

64 100

66 31.8 23.2 43.0



Abundance Ion 64.00 (63.70 to 64.70): VU031793.D (-65) (-)



#9

Trichlorofluoromethane

Concen: 43.173 ug/L

RT: 1.88 min Scan# 246

Delta R.T. -0.00 min

Lab File: VU031793.D

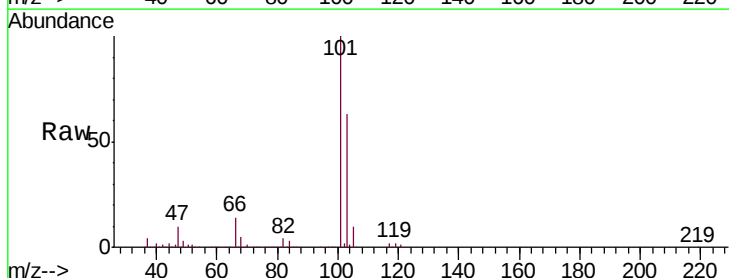
Acq: 07 May 2019 10:36

Tgt Ion: 101 Resp: 422671

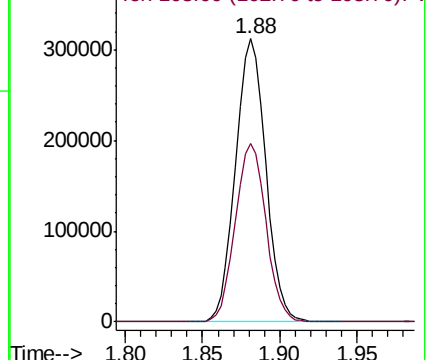
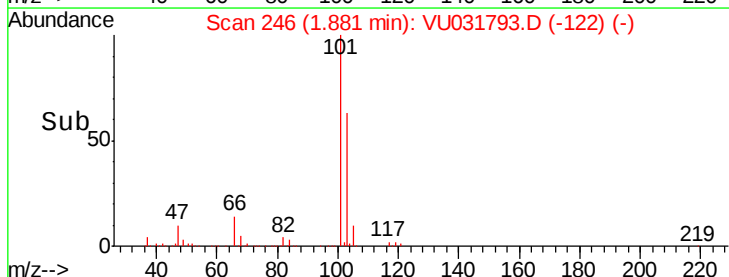
Ion Ratio Lower Upper

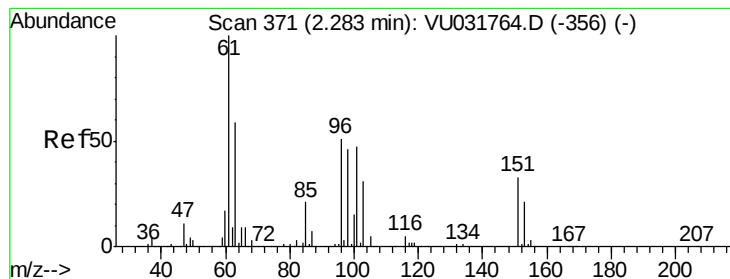
101 100

103 63.8 50.8 76.2



Abundance Ion 101.00 (100.70 to 101.70): VU031793.D (-122) (-)





#10

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

Concen: 44.409 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU031793.D

Acq: 07 May 2019 10:36

Instrument :

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ClientSampleId :

VSTD05037

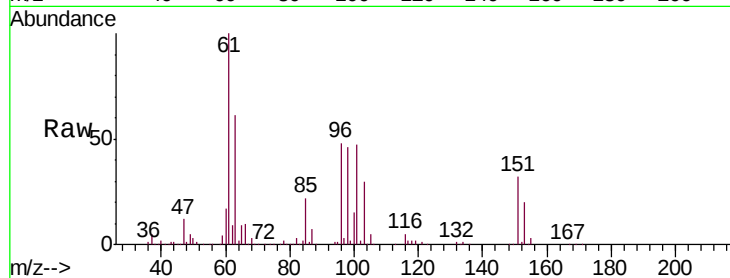
Tgt Ion: 101 Resp: 245774

Ion Ratio Lower Upper

101 100

85 47.0 36.1 54.1

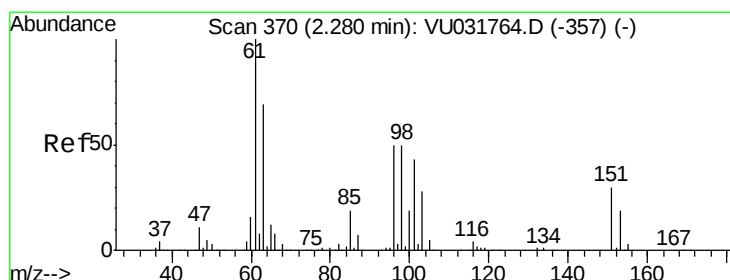
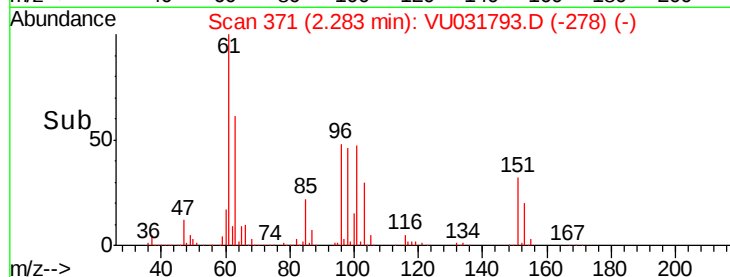
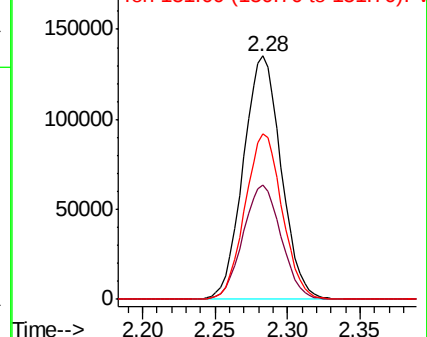
151 66.7 56.1 84.1



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: 42.290 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU031793.D

Acq: 07 May 2019 10:36

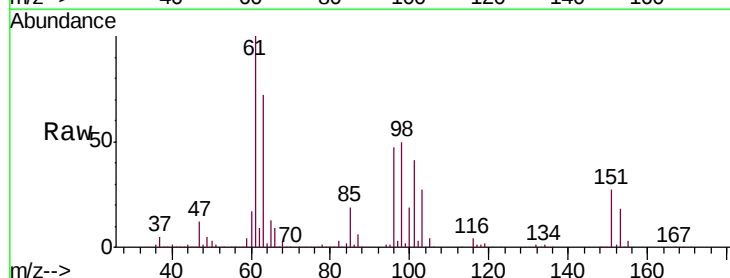
Tgt Ion: 96 Resp: 227805

Ion Ratio Lower Upper

96 100

61 213.7 135.0 250.6

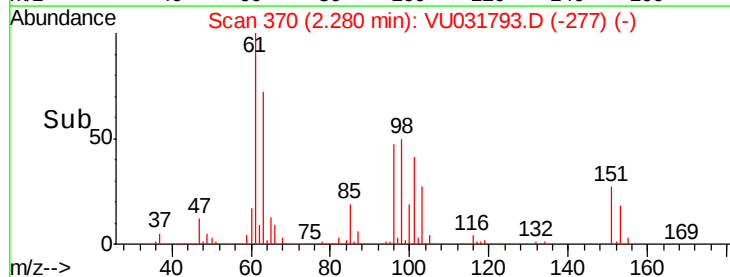
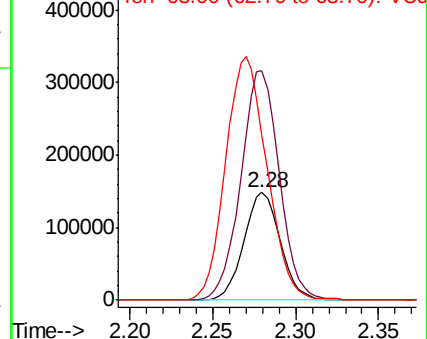
63 153.9 103.5 192.3

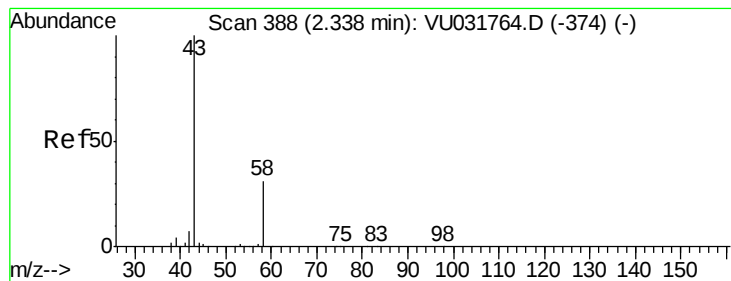


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 95.371 ug/L

RT: 2.34 min Scan# 388

Delta R.T. -0.00 min

Lab File: VU031793.D

Acq: 07 May 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

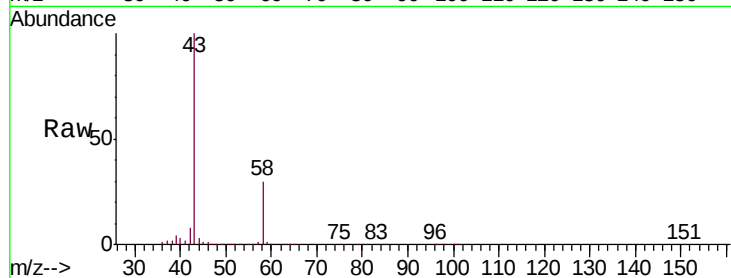
VSTD05037

Tgt Ion: 43 Resp: 562439

Ion Ratio Lower Upper

43 100

58 29.9 0.0 64.4



Abundance Ion 43.00 (42.70 to 43.70): VU031764.D (-374) (-)

Ion 58.00 (57.70 to 58.70): VU031764.D (-374) (-)

2.34

250000

200000

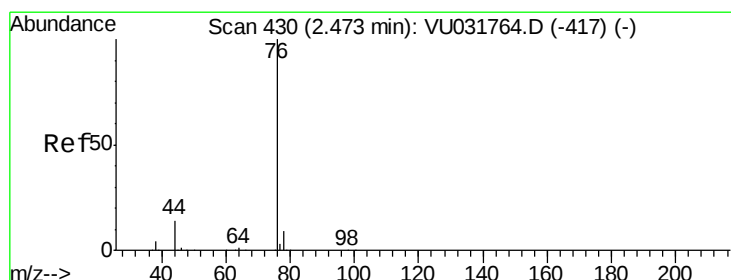
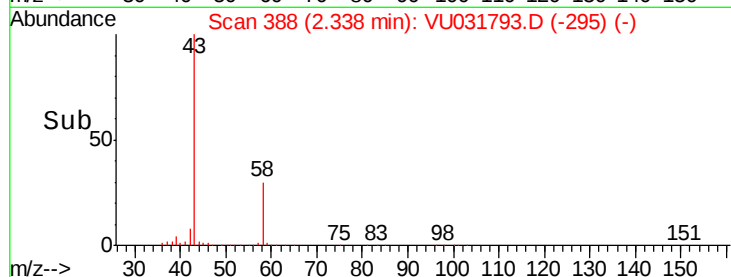
150000

100000

50000

0

Time-->



#14

Carbon disulfide

Concen: 40.027 ug/L

RT: 2.47 min Scan# 430

Delta R.T. -0.00 min

Lab File: VU031793.D

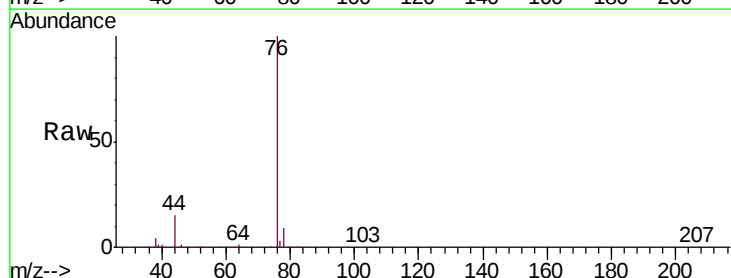
Acq: 07 May 2019 10:36

Tgt Ion: 76 Resp: 715486

Ion Ratio Lower Upper

76 100

78 9.3 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VU031764.D (-417) (-)

Ion 78.00 (77.70 to 78.70): VU031764.D (-417) (-)

2.47

500000

400000

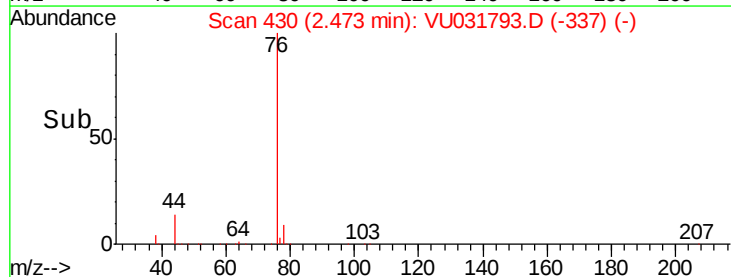
300000

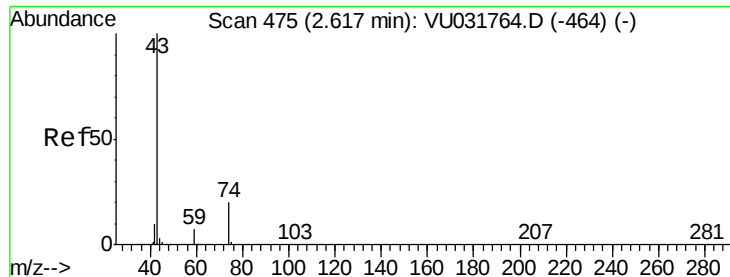
200000

100000

0

Time-->

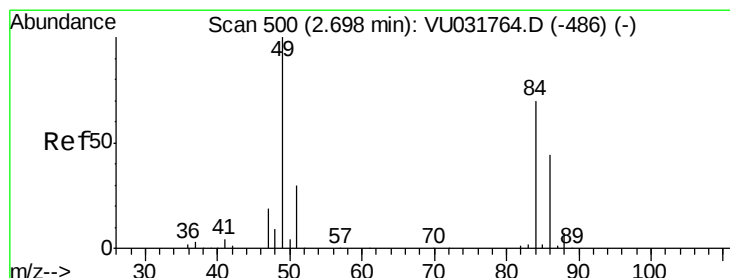
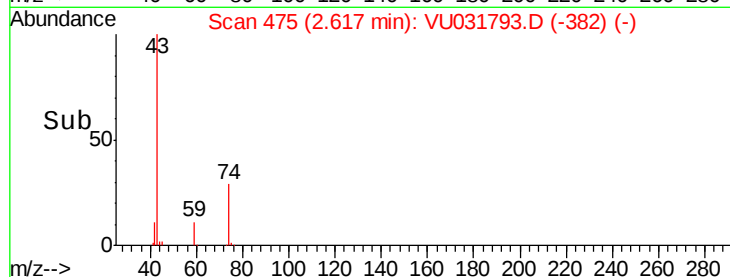
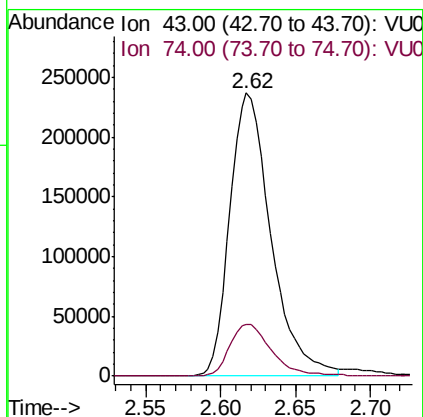
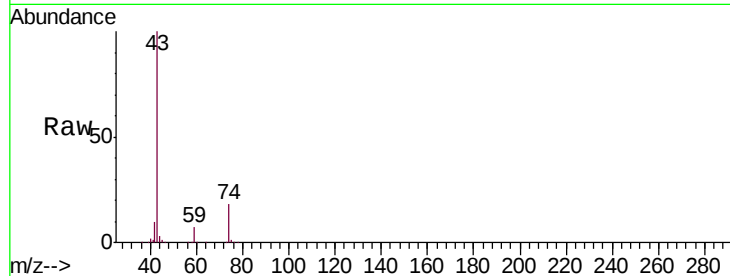




#15
Methyl Acetate
Concen: 50.481 ug/L
RT: 2.62 min Scan# 475
Delta R.T. -0.00 min
Lab File: VU031793.D
Acq: 07 May 2019 10:36

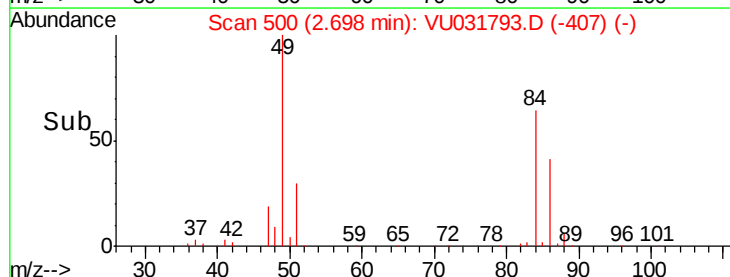
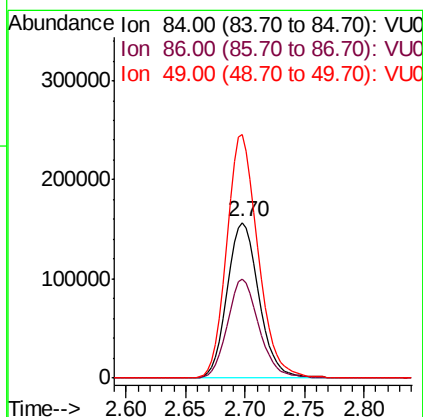
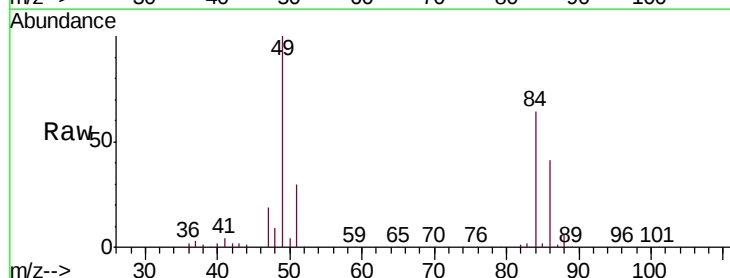
Instrument :
MSVOA_U
ClientSampleId :
VSTD05037

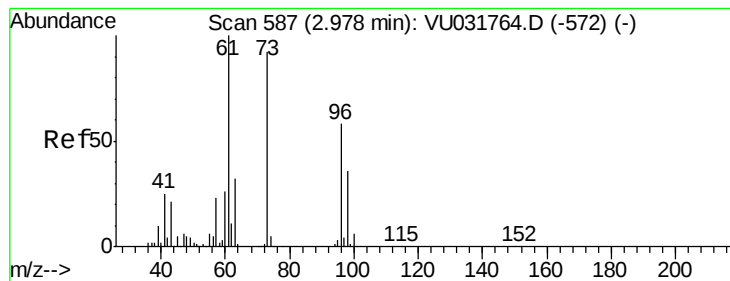
Tgt Ion: 43 Resp: 450463
Ion Ratio Lower Upper
43 100
74 19.0 15.7 23.5



#16
Methylene chloride
Concen: 45.882 ug/L
RT: 2.70 min Scan# 500
Delta R.T. -0.00 min
Lab File: VU031793.D
Acq: 07 May 2019 10:36

Tgt Ion: 84 Resp: 291674
Ion Ratio Lower Upper
84 100
86 63.8 44.7 83.1
49 156.3 96.5 179.3





#17

trans-1,2-Dichloroethene

Concen: 42.748 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU031793.D

Acq: 07 May 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05037

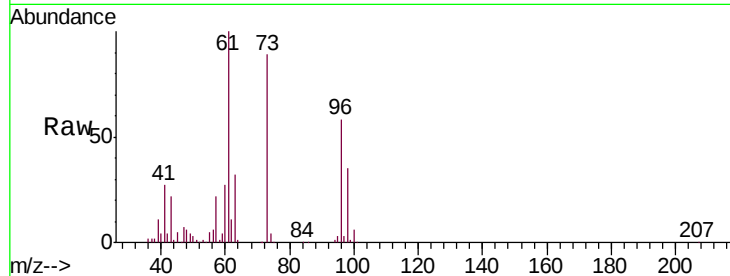
Tgt Ion: 96 Resp: 239941

Ion Ratio Lower Upper

96 100

61 173.5 114.5 212.7

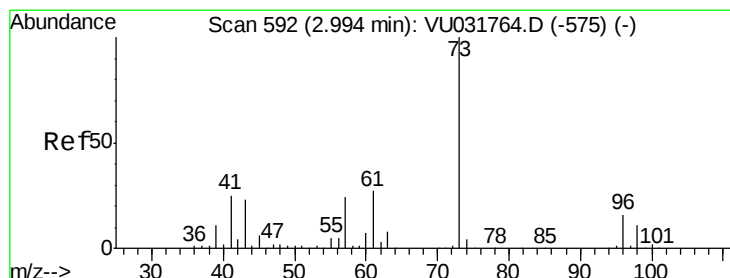
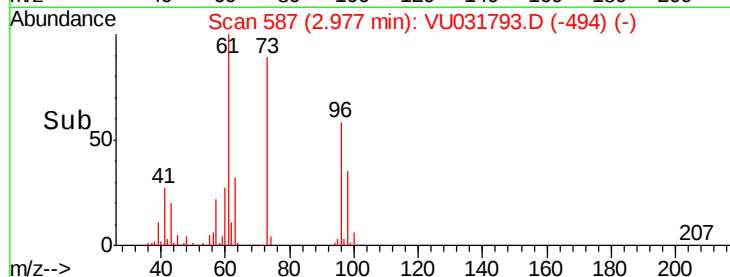
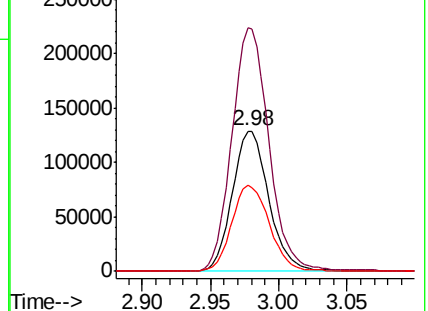
98 61.0 45.4 84.2



Abundance Ion 96.00 (95.70 to 96.70): VU031764.D (-572) (-)

Ion 61.00 (60.70 to 61.70): VU031764.D (-572) (-)

Ion 98.00 (97.70 to 98.70): VU031764.D (-572) (-)



#18

Methyl tert-butyl Ether

Concen: 50.074 ug/L

RT: 2.99 min Scan# 592

Delta R.T. -0.00 min

Lab File: VU031793.D

Acq: 07 May 2019 10:36

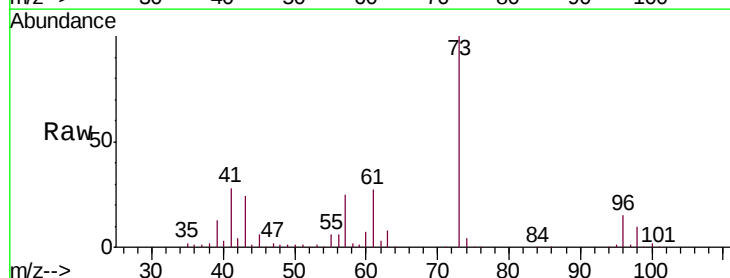
Tgt Ion: 73 Resp: 895457

Ion Ratio Lower Upper

73 100

43 23.6 17.0 25.4

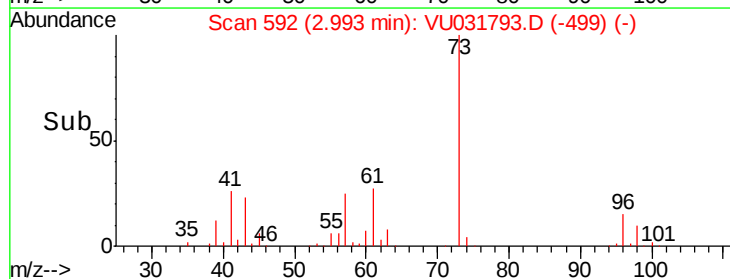
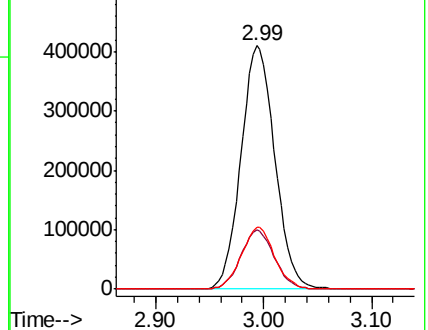
57 24.9 19.5 29.3

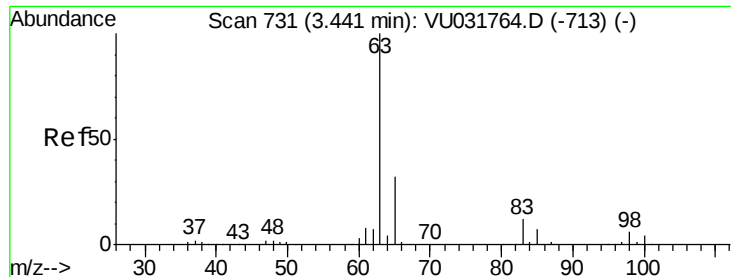


Abundance Ion 73.00 (72.70 to 73.70): VU031764.D (-575) (-)

Ion 43.00 (42.70 to 43.70): VU031764.D (-575) (-)

Ion 57.00 (56.70 to 57.70): VU031764.D (-575) (-)

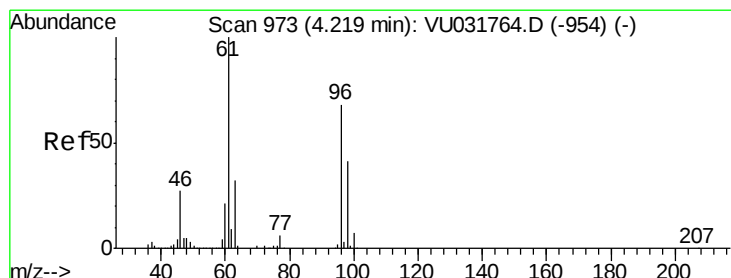
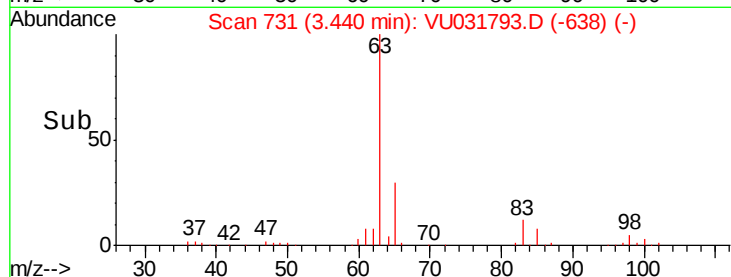
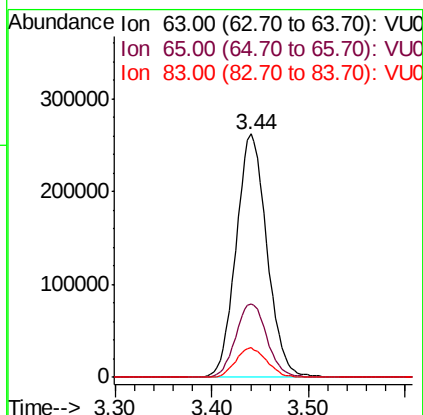
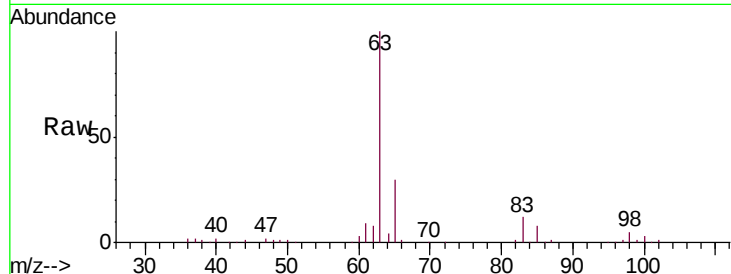




#19
 1,1-Dichloroethane
 Concen: 49.149 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. -0.00 min
 Lab File: VU031793.D
 Acq: 07 May 2019 10:36

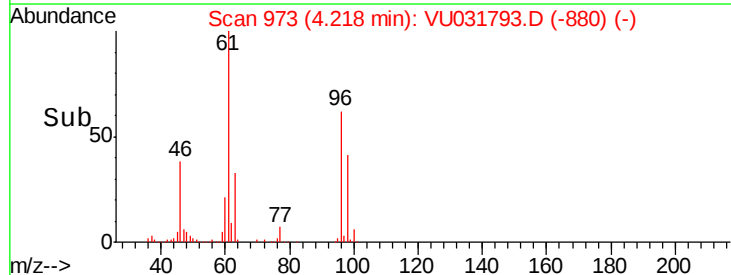
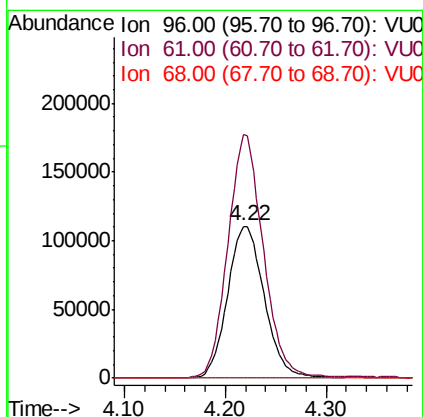
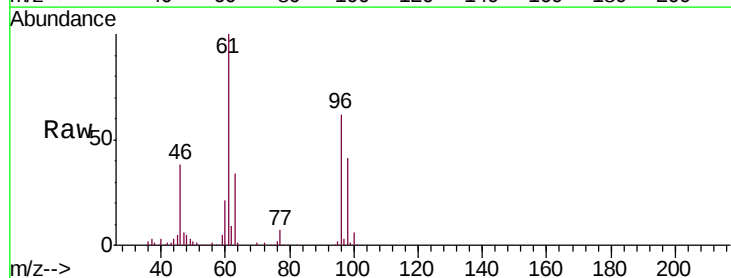
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05037

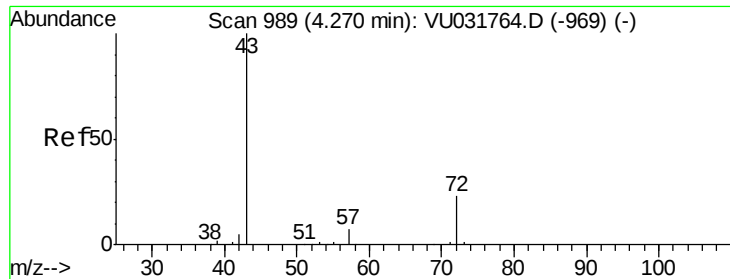
Tgt Ion: 63 Resp: 580984
 Ion Ratio Lower Upper
 63 100
 65 30.0 22.0 40.8
 83 12.0 8.8 16.4



#20
 cis-1,2-Dichloroethene
 Concen: 46.492 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. -0.00 min
 Lab File: VU031793.D
 Acq: 07 May 2019 10:36

Tgt Ion: 96 Resp: 279928
 Ion Ratio Lower Upper
 96 100
 61 160.6 99.5 184.7
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 108.475 ug/L

RT: 4.27 min Scan# 989

Delta R.T. -0.00 min

Lab File: VU031793.D

Acq: 07 May 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

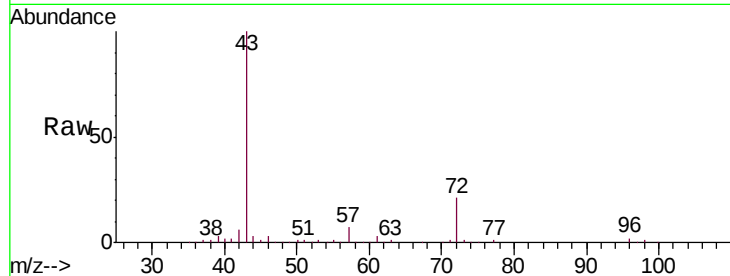
VSTD05037

Tgt Ion: 43 Resp: 708744

Ion Ratio Lower Upper

43 100

72 21.7 11.4 34.2



Abundance Ion 43.00 (42.70 to 43.70): VU031793.D (-896) (-)

Ion 72.00 (71.70 to 72.70): VU031793.D (-896) (-)

4.27

250000

200000

150000

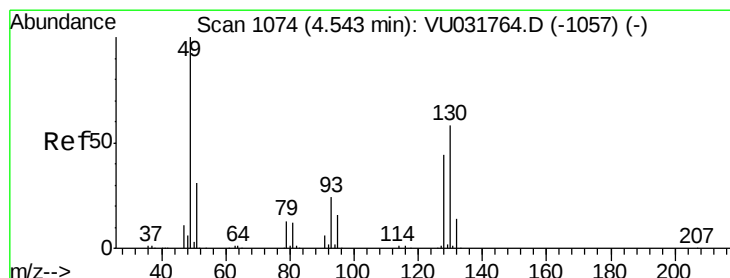
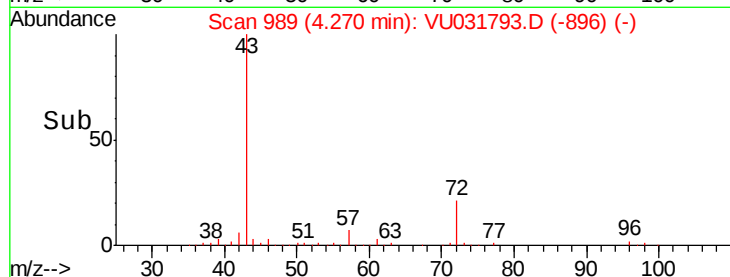
100000

50000

0

4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 43.733 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. -0.00 min

Lab File: VU031793.D

Acq: 07 May 2019 10:36

Tgt Ion: 128 Resp: 127948

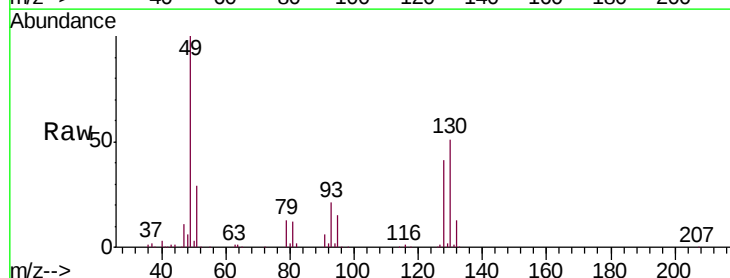
Ion Ratio Lower Upper

128 100

49 241.9 152.6 283.4

130 122.8 93.7 173.9

51 70.0 54.2 81.4



Abundance Ion 128.00 (127.70 to 128.70): VU031793.D (-981) (-)

Ion 49.00 (48.70 to 49.70): VU031793.D (-981) (-)

Ion 130.00 (129.70 to 130.70): VU031793.D (-981) (-)

Ion 51.00 (50.70 to 51.70): VU031793.D (-981) (-)

200000

150000

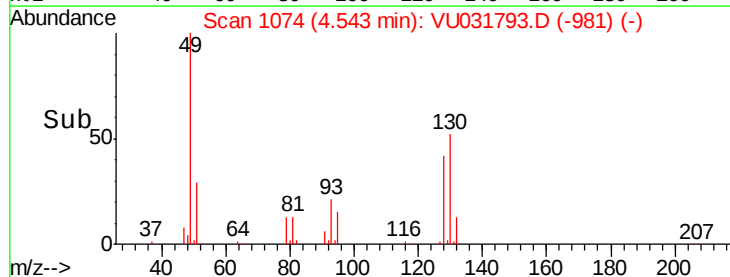
100000

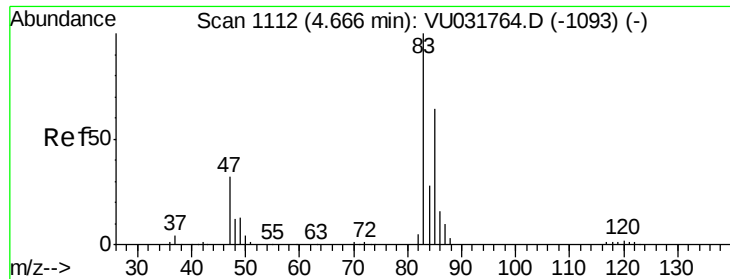
50000

0

4.45 4.50 4.55 4.60

Time-->





#25

Chloroform

Concen: 47.470 ug/L

RT: 4.67 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VU031793.D

Acq: 07 May 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

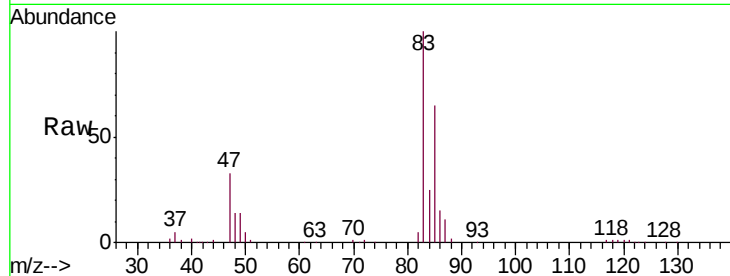
VSTD05037

Tgt Ion: 83 Resp: 536592

Ion Ratio Lower Upper

83 100

85 65.3 44.9 83.3



Abundance Ion 83.00 (82.70 to 83.70): VU031764.D (-1093) (-)

Ion 85.00 (84.70 to 85.70): VU031764.D (-1093) (-)

250000

200000

150000

100000

50000

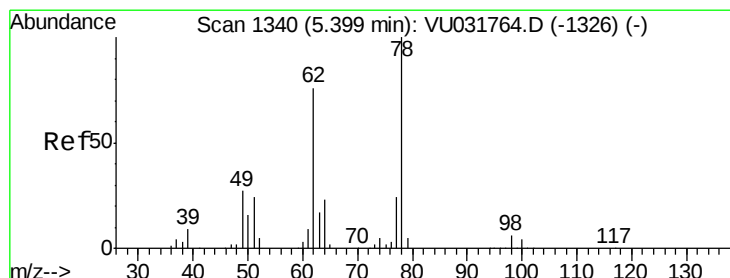
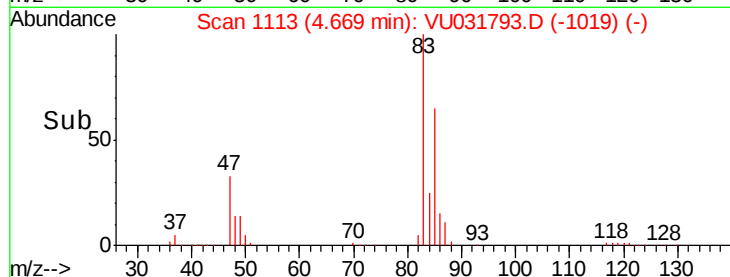
0

4.60

4.67

4.70

Time-->



#27

1,2-Dichloroethane

Concen: 50.917 ug/L

RT: 5.40 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VU031793.D

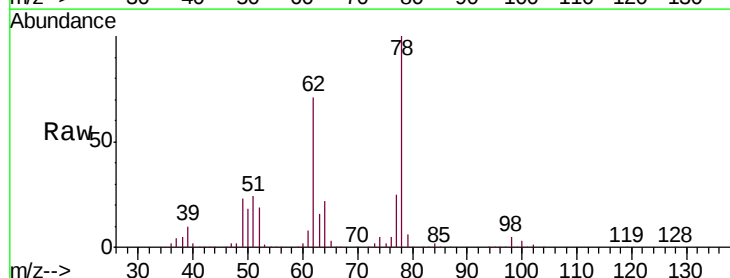
Acq: 07 May 2019 10:36

Tgt Ion: 62 Resp: 467501

Ion Ratio Lower Upper

62 100

98 7.2 7.1 10.7



Abundance Ion 62.00 (61.70 to 62.70): VU031764.D (-1326) (-)

Ion 98.00 (97.70 to 98.70): VU031764.D (-1326) (-)

250000

200000

150000

100000

50000

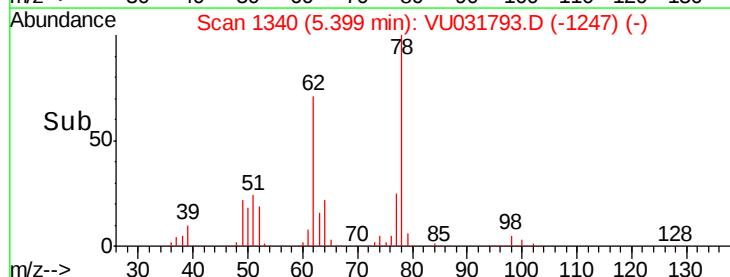
0

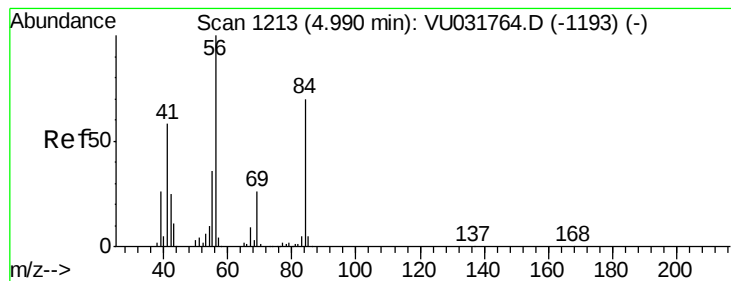
5.30

5.40

5.50

Time-->





#29

Cyclohexane

Concen: 46.676 ug/L

RT: 4.99 min Scan# 1213

Delta R.T. -0.00 min

Lab File: VU031793.D

Acq: 07 May 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05037

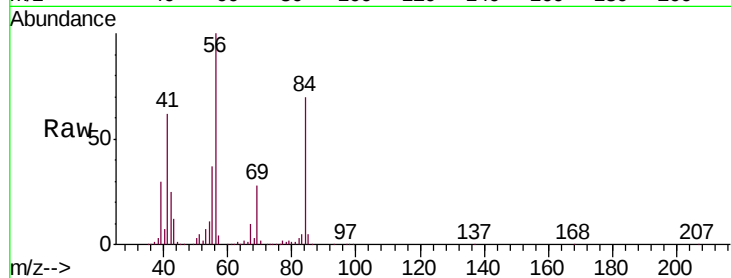
Tgt Ion: 56 Resp: 503127

Ion Ratio Lower Upper

56 100

69 27.4 22.3 33.5

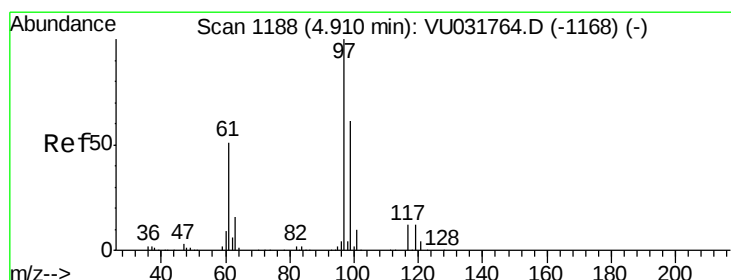
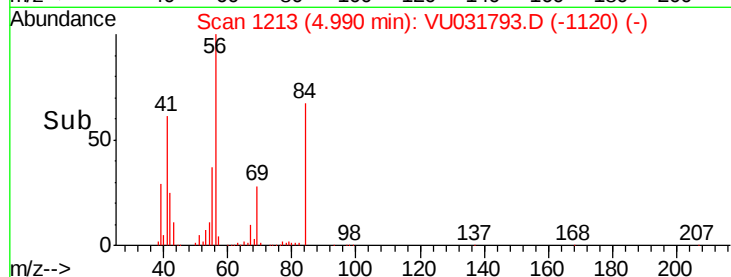
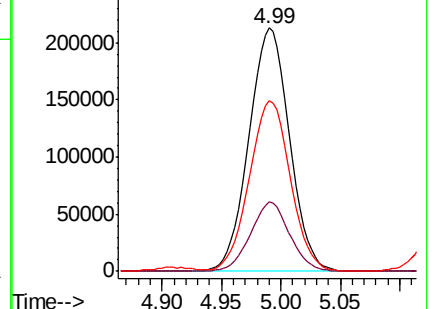
84 70.2 57.5 86.3



Abundance Ion 56.00 (55.70 to 56.70): VU031764.D (-1193) (-)

Ion 69.00 (68.70 to 69.70): VU031764.D (-1193) (-)

Ion 84.00 (83.70 to 84.70): VU031764.D (-1193) (-)



#30

1,1,1-Trichloroethane

Concen: 46.114 ug/L

RT: 4.91 min Scan# 1188

Delta R.T. -0.00 min

Lab File: VU031793.D

Acq: 07 May 2019 10:36

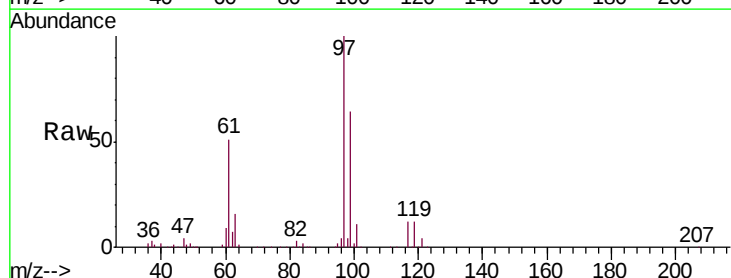
Tgt Ion: 97 Resp: 440055

Ion Ratio Lower Upper

97 100

99 62.6 52.0 78.0

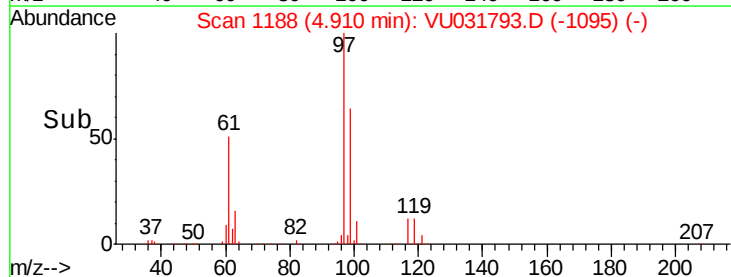
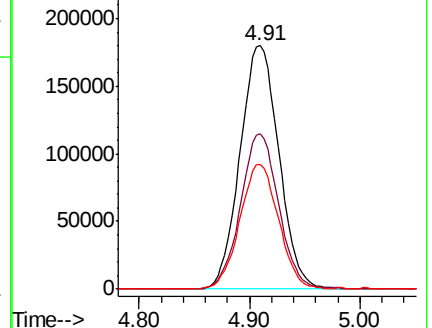
61 51.1 38.7 58.1

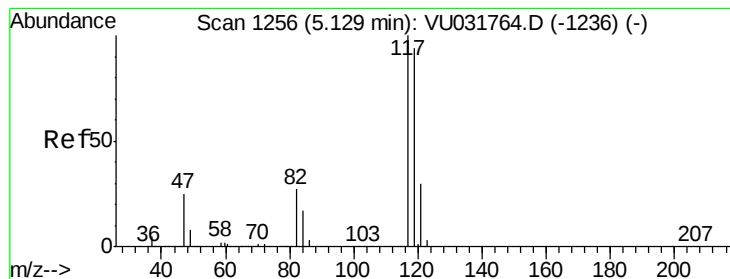


Abundance Ion 97.00 (96.70 to 97.70): VU031764.D (-1168) (-)

Ion 99.00 (98.70 to 99.70): VU031764.D (-1168) (-)

Ion 61.05 (60.75 to 61.75): VU031764.D (-1168) (-)





#31

Carbon tetrachloride

Concen: 44.373 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. -0.00 min

Lab File: VU031793.D

Acq: 07 May 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

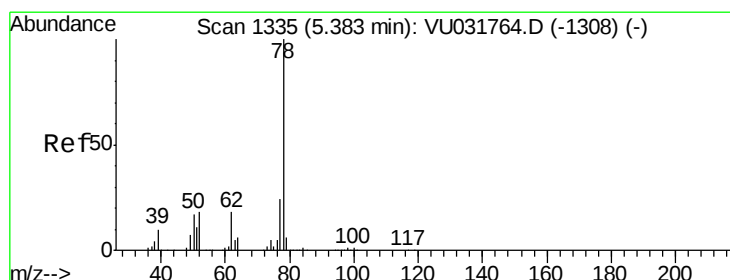
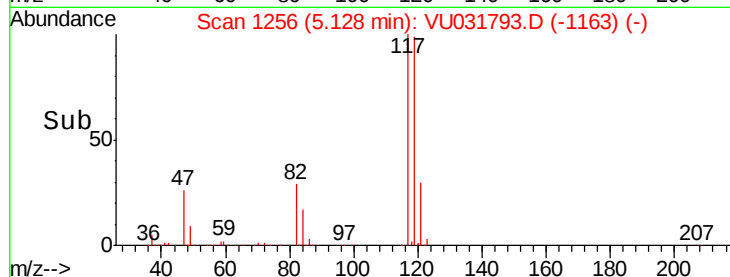
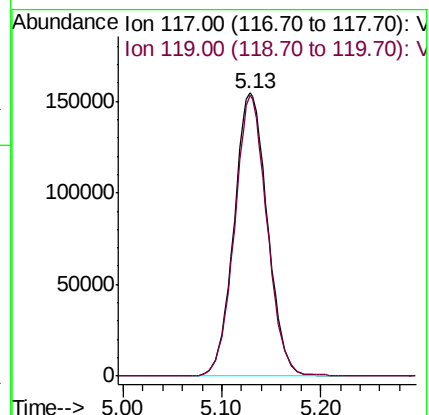
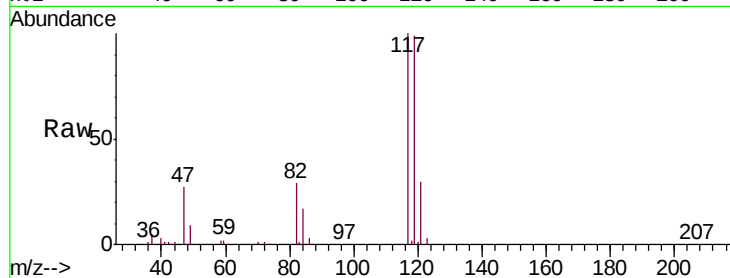
VSTD05037

Tgt Ion:117 Resp: 361926

Ion Ratio Lower Upper

117 100

119 96.4 76.6 114.8



#33

Benzene

Concen: 46.474 ug/L

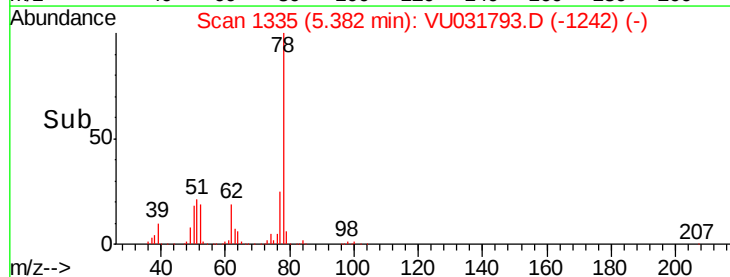
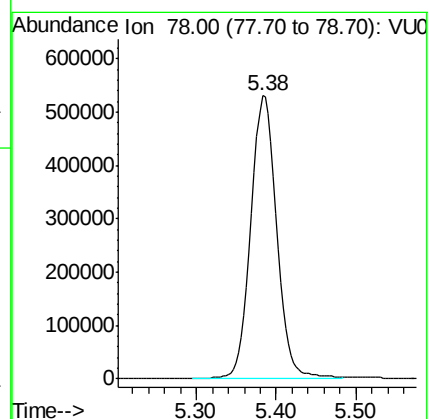
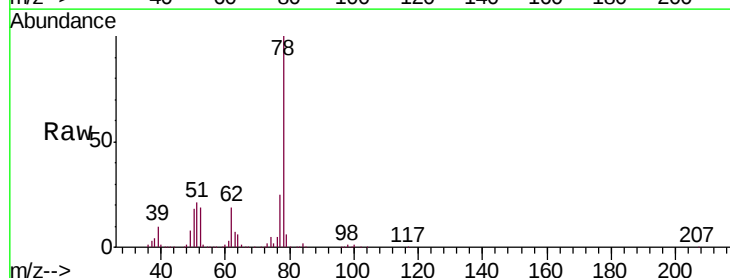
RT: 5.38 min Scan# 1335

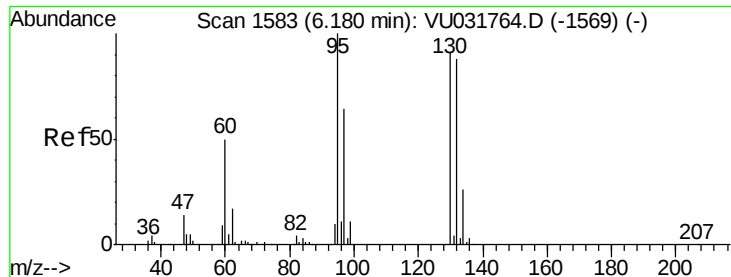
Delta R.T. -0.00 min

Lab File: VU031793.D

Acq: 07 May 2019 10:36

Tgt Ion: 78 Resp: 1163751

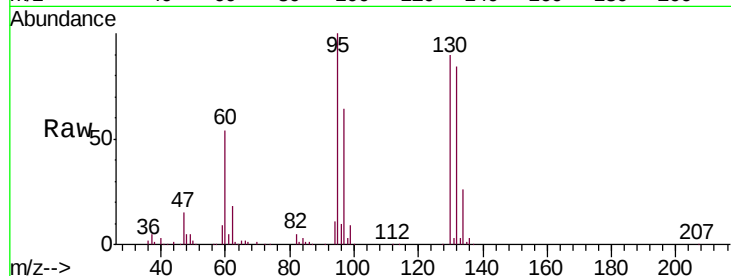




#34
 Trichloroethene
 Concen: 46.008 ug/L
 RT: 6.18 min Scan# 1583
 Delta R.T. -0.00 min
 Lab File: VU031793.D
 Acq: 07 May 2019 10:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05037

Tgt Ion: 95 Resp: 279266
 Ion Ratio Lower Upper
 95 100
 97 63.8 44.8 83.2
 132 83.6 63.1 117.1
 130 89.5 66.5 123.5



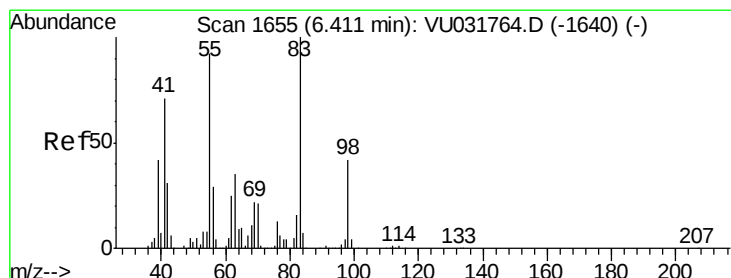
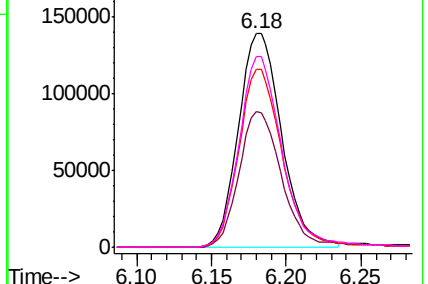
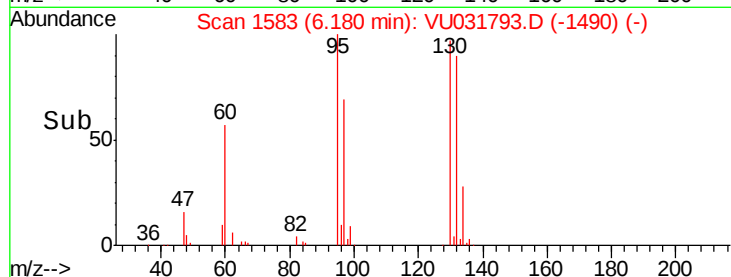
Abundance

Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

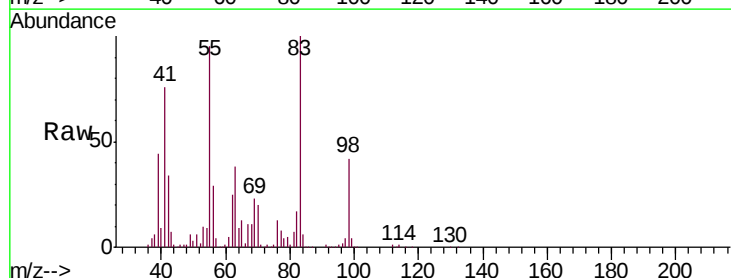
Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35
 Methylcyclohexane
 Concen: 46.152 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: VU031793.D
 Acq: 07 May 2019 10:36

Tgt Ion: 83 Resp: 419834
 Ion Ratio Lower Upper
 83 100
 55 97.2 73.0 109.4
 98 42.3 35.3 52.9

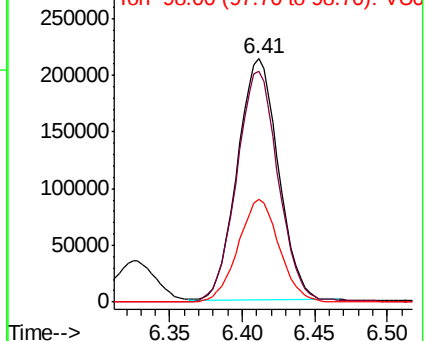
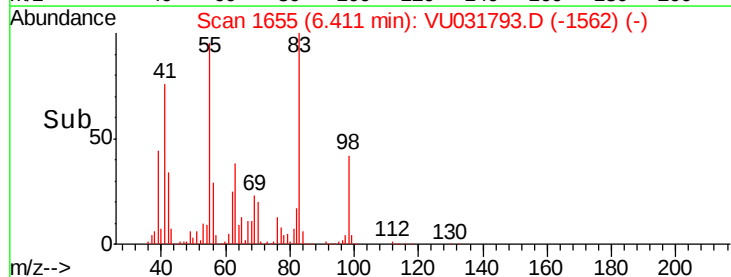


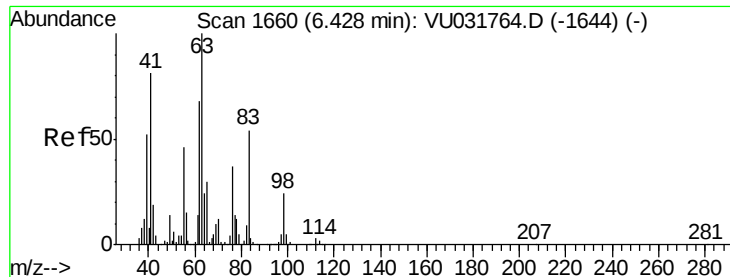
Abundance

Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

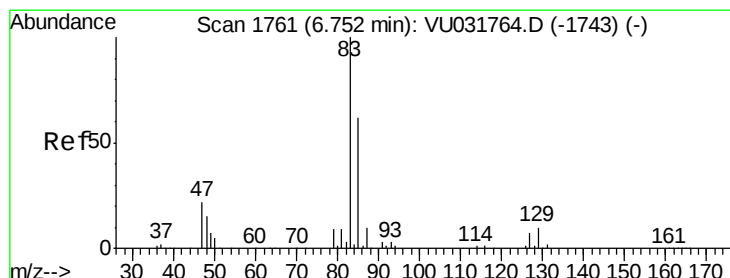
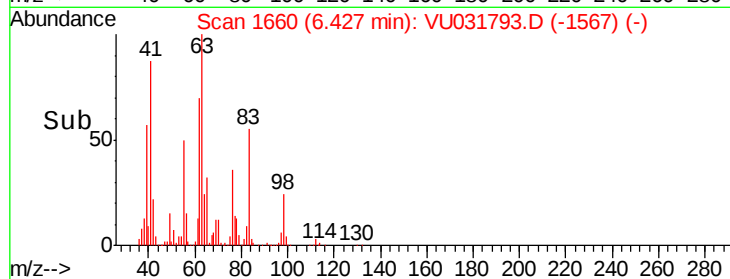
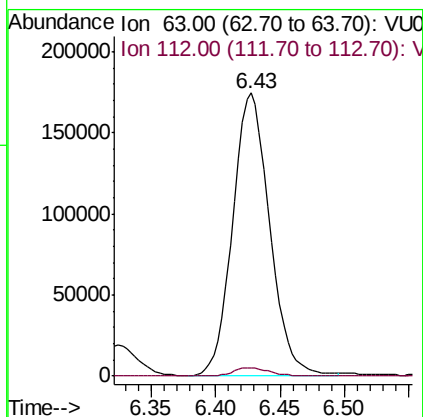
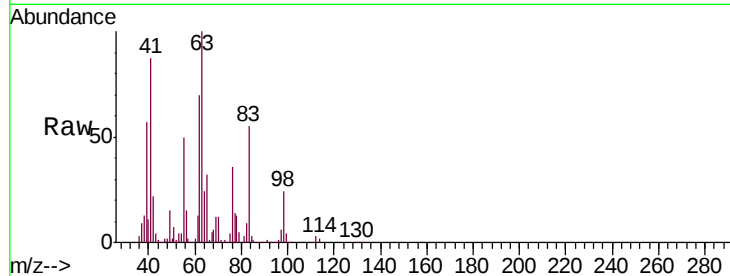




#37
 1,2-Dichloropropane
 Concen: 48.745 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. -0.00 min
 Lab File: VU031793.D
 Acq: 07 May 2019 10:36

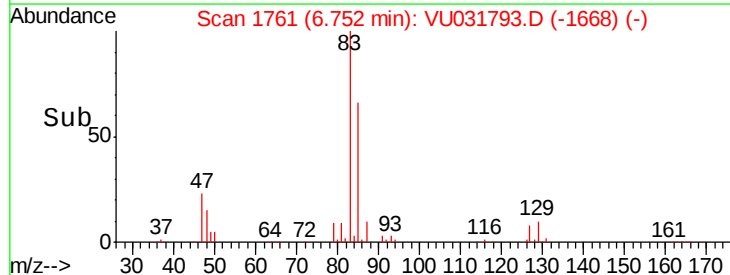
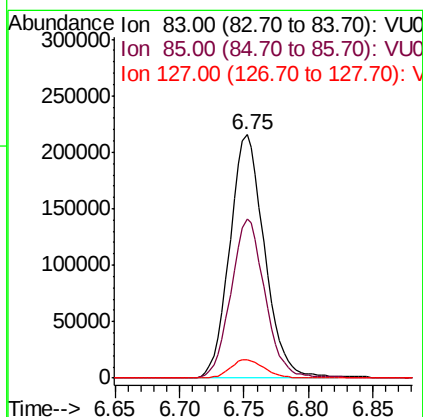
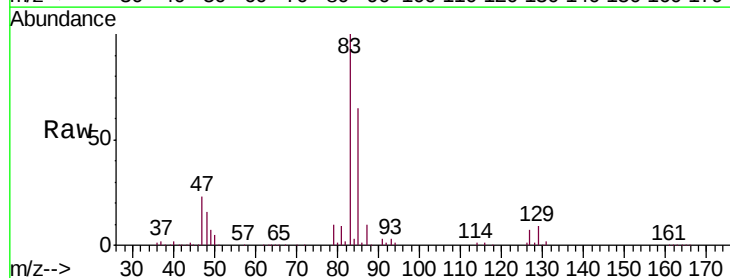
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05037

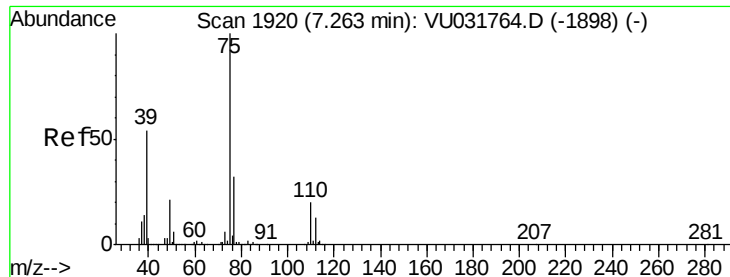
Tgt Ion: 63 Resp: 346517
 Ion Ratio Lower Upper
 63 100
 112 3.0 2.7 4.1



#38
 Bromodichloromethane
 Concen: 46.810 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. -0.00 min
 Lab File: VU031793.D
 Acq: 07 May 2019 10:36

Tgt Ion: 83 Resp: 403475
 Ion Ratio Lower Upper
 83 100
 85 65.4 43.7 81.1
 127 7.4 6.7 10.1

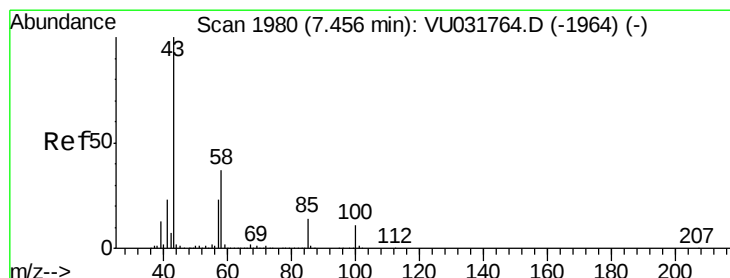
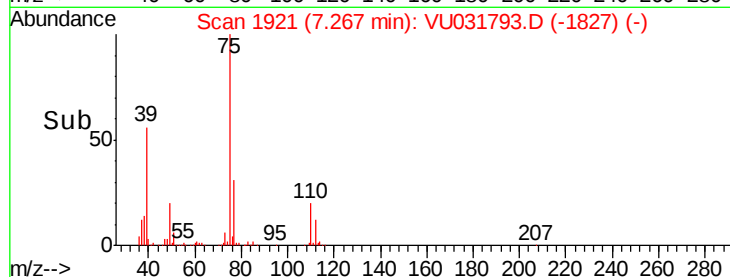
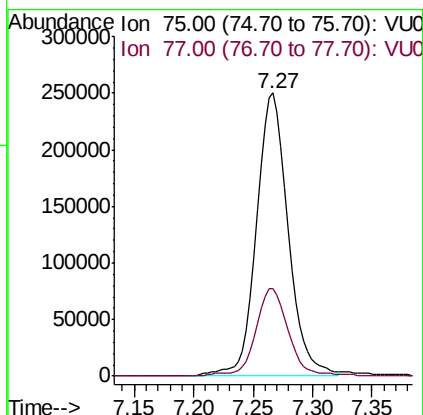
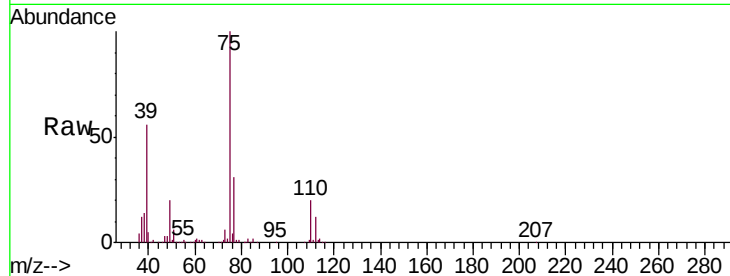




#39
 cis-1,3-Dichloropropene
 Concen: 49.329 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU031793.D
 Acq: 07 May 2019 10:36

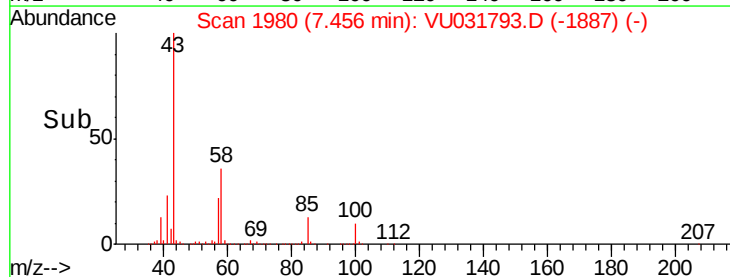
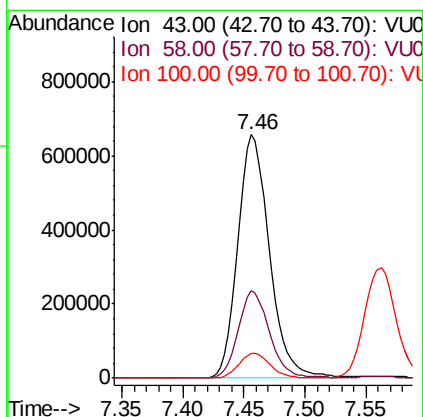
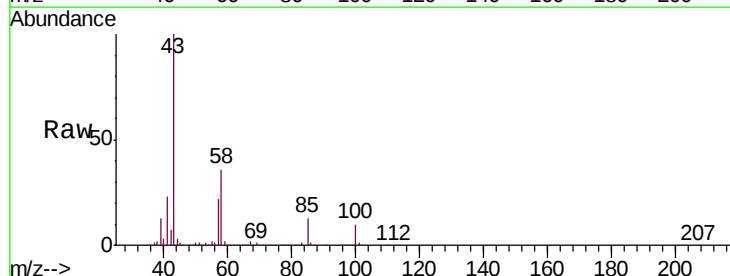
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05037

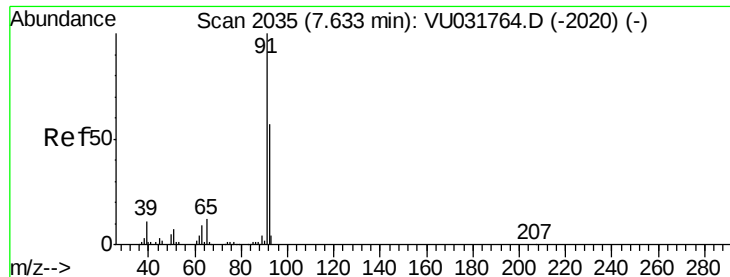
Tgt Ion: 75 Resp: 463369
 Ion Ratio Lower Upper
 75 100
 77 30.9 22.1 41.1



#40
 4-Methyl-2-pentanone
 Concen: 107.719 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. -0.00 min
 Lab File: VU031793.D
 Acq: 07 May 2019 10:36

Tgt Ion: 43 Resp: 1178143
 Ion Ratio Lower Upper
 43 100
 58 35.4 30.1 45.1
 100 10.3 9.6 14.4





#42

Toluene

Concen: 47.182 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU031793.D

Acq: 07 May 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

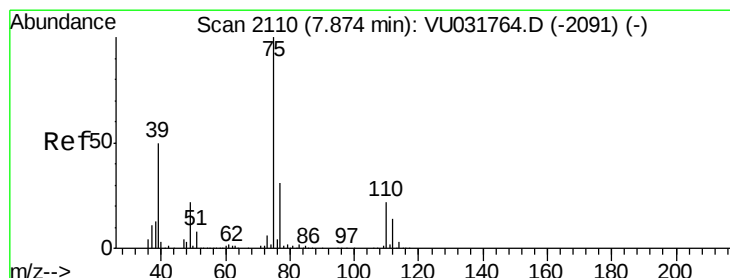
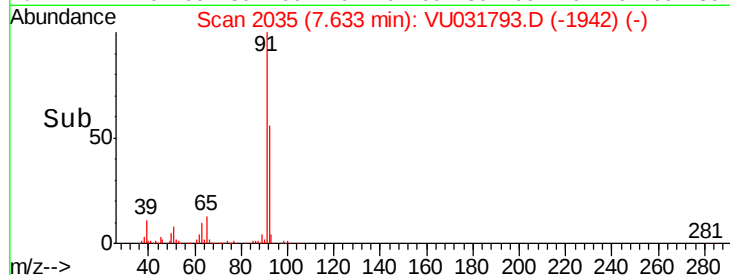
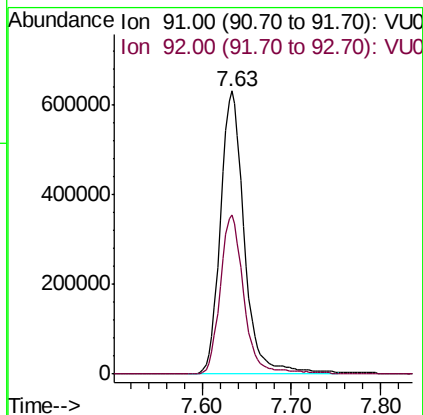
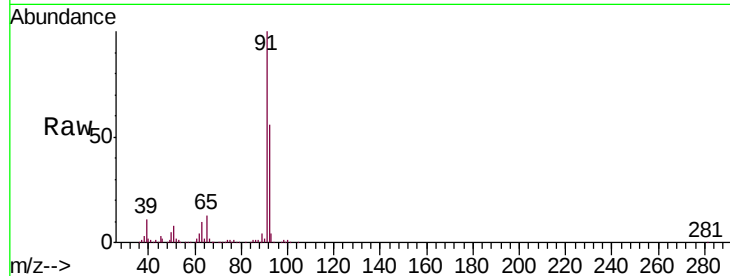
VSTD05037

Tgt Ion: 91 Resp: 1176899

Ion Ratio Lower Upper

91 100

92 56.0 39.0 72.4



#44

trans-1,3-Dichloropropene

Concen: 49.532 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU031793.D

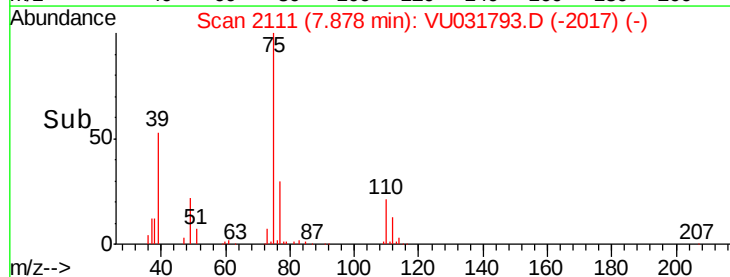
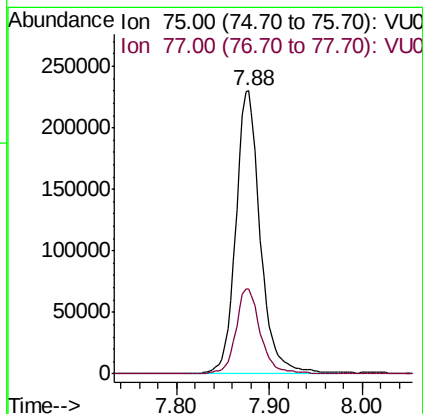
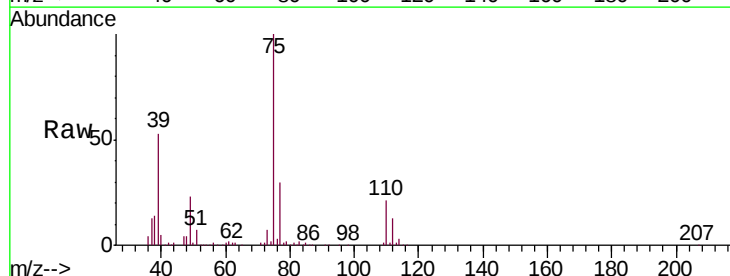
Acq: 07 May 2019 10:36

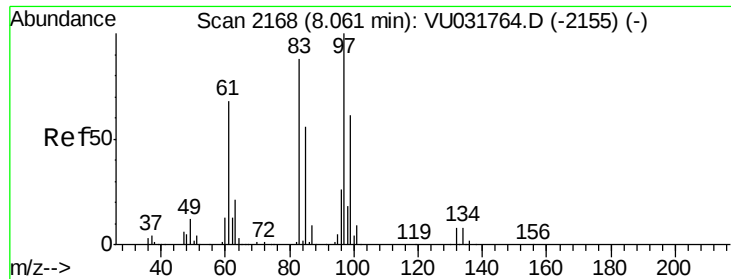
Tgt Ion: 75 Resp: 422005

Ion Ratio Lower Upper

75 100

77 30.0 22.1 41.1

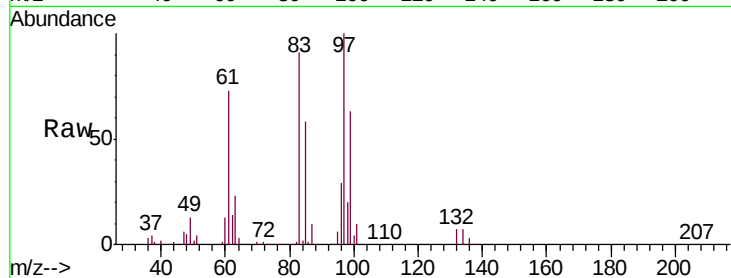




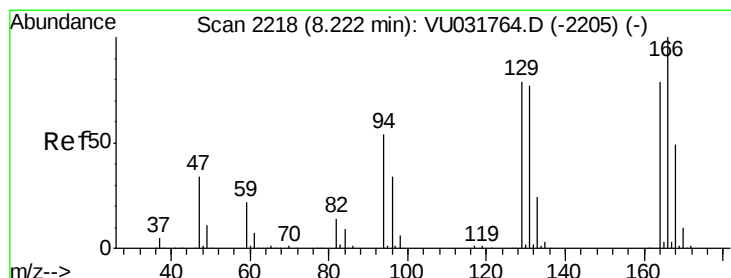
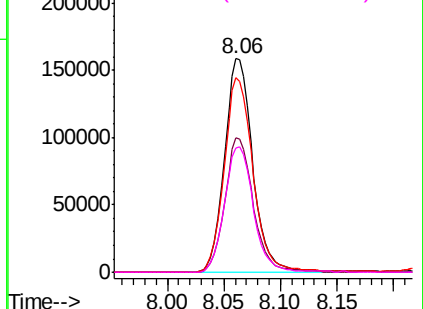
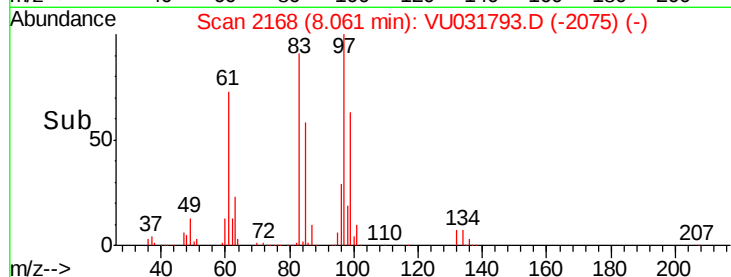
#45
 1,1,2-Trichloroethane
 Concen: 47.069 ug/L
 RT: 8.06 min Scan# 2168
 Delta R.T. -0.00 min
 Lab File: VU031793.D
 Acq: 07 May 2019 10:36

Instrument :
 MSVOA_U
 ClientSampleID :
 VSTD05037

Tgt Ion:	97	Resp:	275847
Ion	Ratio	Lower	Upper
97	100		
99	62.8	43.0	80.0
83	91.1	63.6	118.2
85	58.3	40.5	75.3

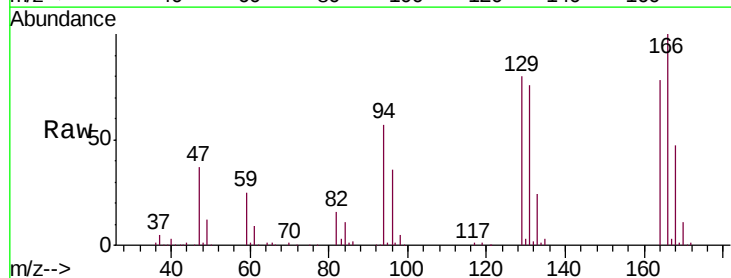


Abundance Ion 97.00 (96.70 to 97.70): VU031793.D (-2075) (-)

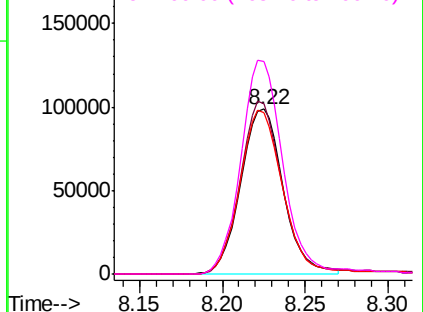
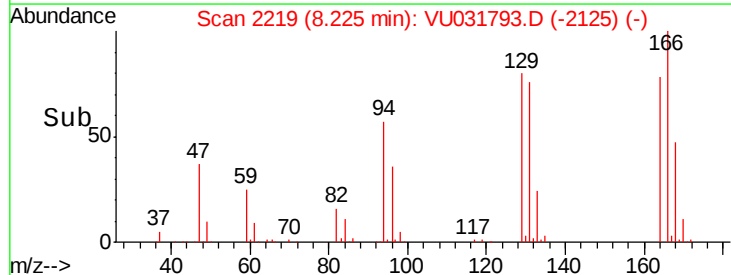


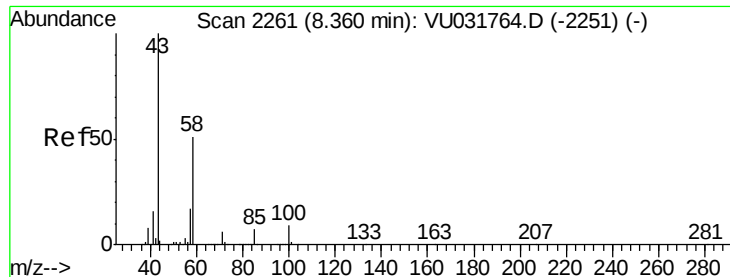
#46
 Tetrachloroethene
 Concen: 42.640 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU031793.D
 Acq: 07 May 2019 10:36

Tgt Ion:	164	Resp:	176447
Ion	Ratio	Lower	Upper
164	100		
129	103.3	71.5	132.9
131	97.8	69.0	128.2
166	128.8	93.7	173.9



Abundance Ion 164.00 (163.70 to 164.70): VU031793.D (-2125) (-)

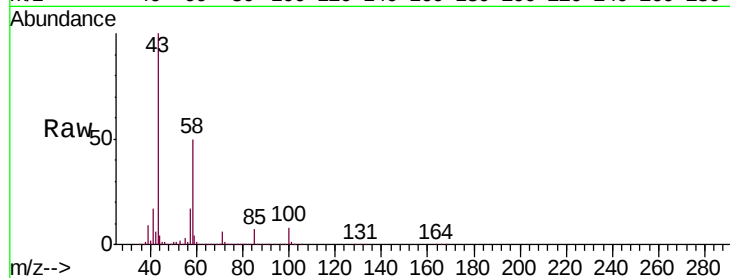




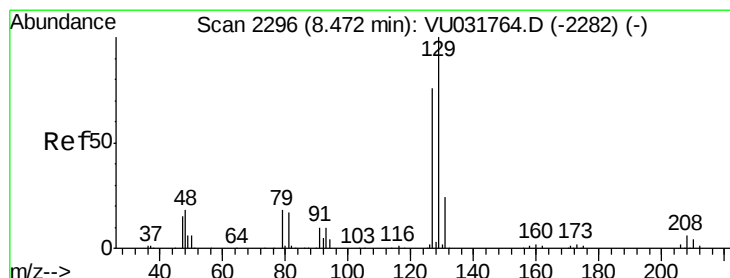
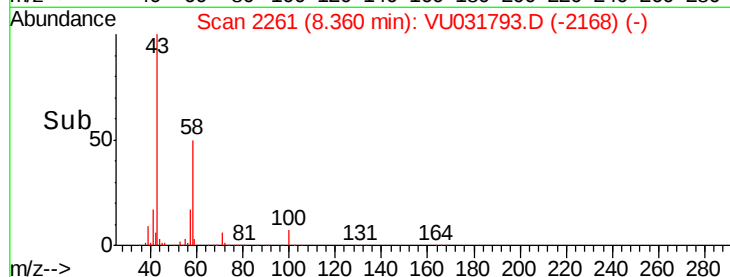
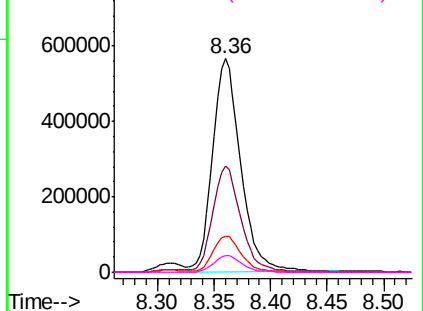
#48
 2-Hexanone
 Concen: 109.641 ug/L
 RT: 8.36 min Scan# 2261
 Delta R.T. -0.00 min
 Lab File: VU031793.D
 Acq: 07 May 2019 10:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05037

Tgt Ion:	43	Resp:	969875
Ion	Ratio	Lower	Upper
43	100		
58	49.3	42.1	63.1
57	16.8	14.6	22.0
100	7.9	7.2	10.8

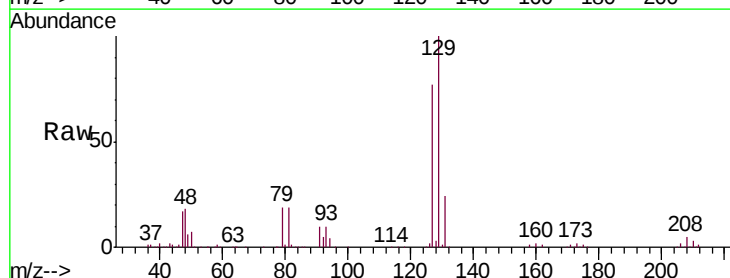


Abundance Ion 43.00 (42.70 to 43.70): VU031764.D (-2251) (-)
 Ion 58.00 (57.70 to 58.70): VU031764.D (-2251) (-)
 Ion 57.00 (56.70 to 57.70): VU031764.D (-2251) (-)
 Ion 100.00 (99.70 to 100.70): VU031764.D (-2251) (-)

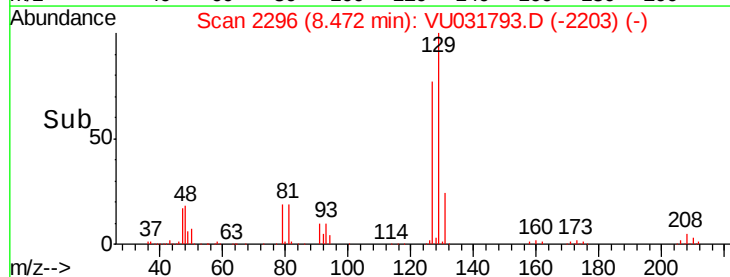
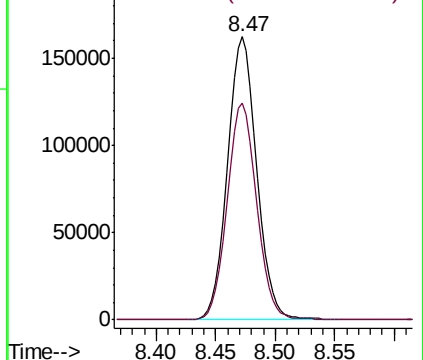


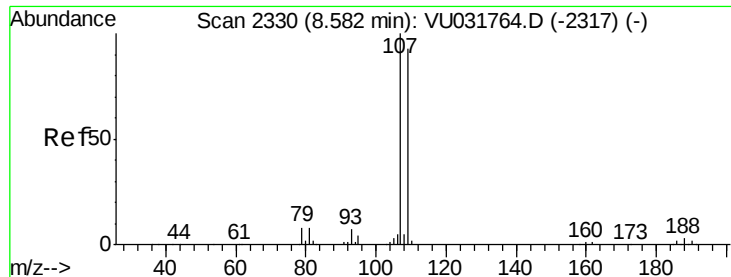
#49
 Dibromochloromethane
 Concen: 45.405 ug/L
 RT: 8.47 min Scan# 2296
 Delta R.T. -0.00 min
 Lab File: VU031793.D
 Acq: 07 May 2019 10:36

Tgt Ion:	129	Resp:	276868
Ion	Ratio	Lower	Upper
129	100		
127	76.7	54.0	100.2



Abundance Ion 129.00 (128.70 to 129.70): VU031764.D (-2282) (-)
 Ion 127.00 (126.70 to 127.70): VU031764.D (-2282) (-)

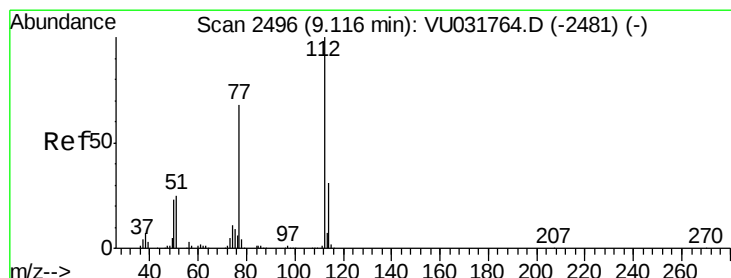
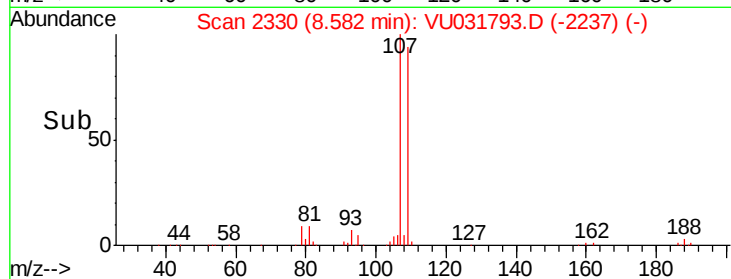
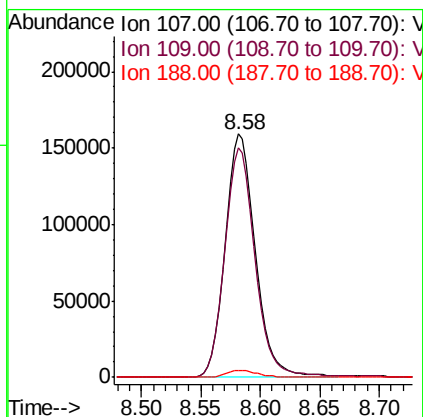
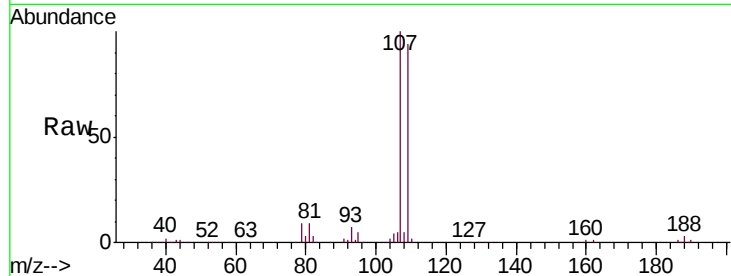




#50
 1,2-Dibromoethane
 Concen: 45.210 ug/L
 RT: 8.58 min Scan# 2330
 Delta R.T. -0.00 min
 Lab File: VU031793.D
 Acq: 07 May 2019 10:36

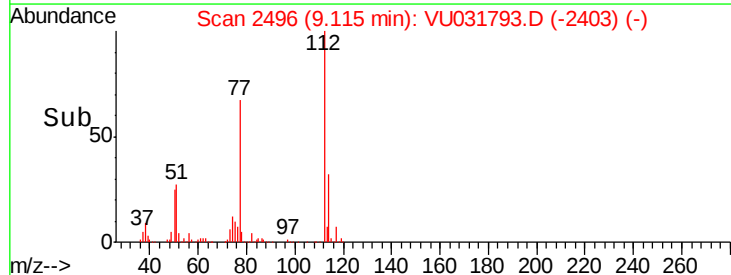
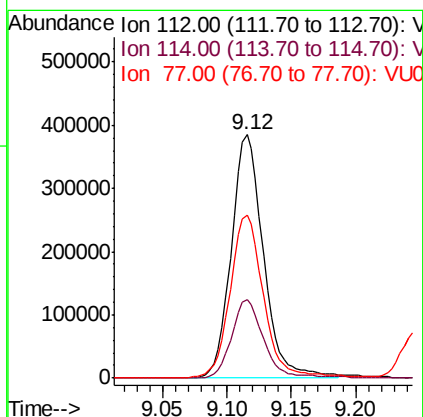
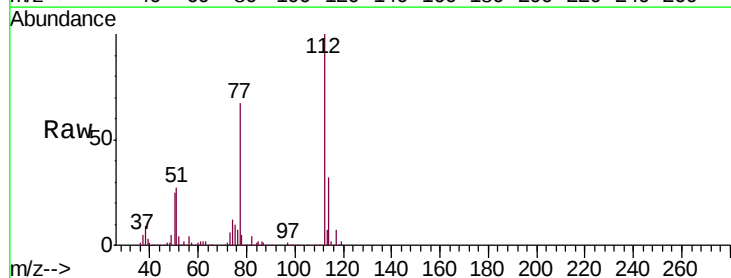
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05037

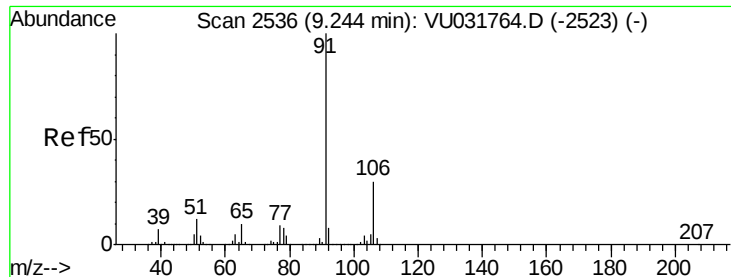
Tgt Ion	Ratio	Lower	Upper
107	100		
109	94.3	64.9	120.5
188	2.9	2.4	3.6



#51
 Chlorobenzene
 Concen: 45.337 ug/L
 RT: 9.12 min Scan# 2496
 Delta R.T. -0.00 min
 Lab File: VU031793.D
 Acq: 07 May 2019 10:36

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.0	23.3	43.3
77	67.0	53.0	79.4





#52

Ethylbenzene

Concen: 47.941 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU031793.D

Acq: 07 May 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

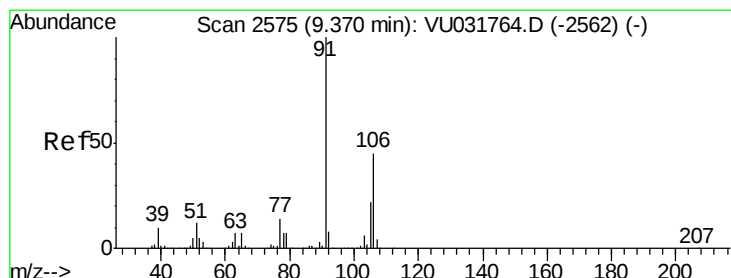
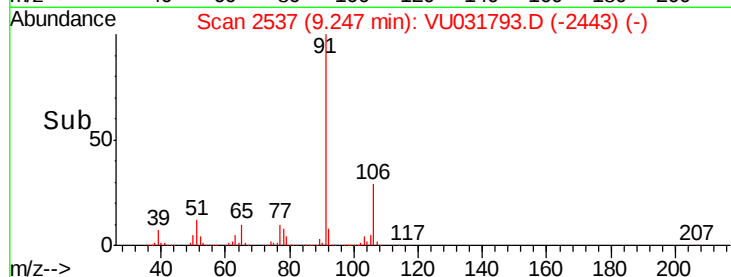
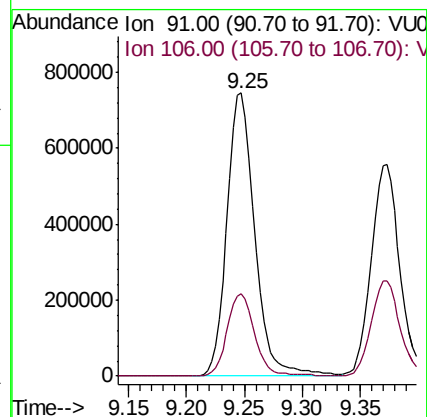
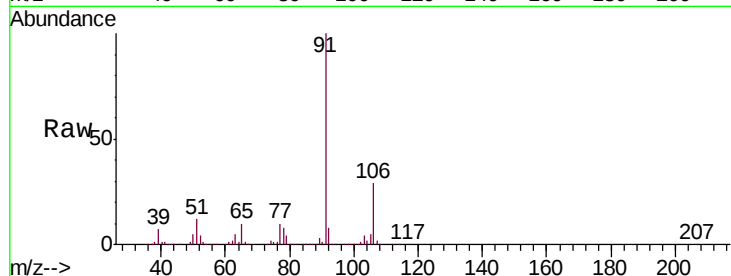
VSTD05037

Tgt Ion: 91 Resp: 1240452

Ion Ratio Lower Upper

91 100

106 29.2 20.4 37.8



#53

m,p-Xylene

Concen: 48.853 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU031793.D

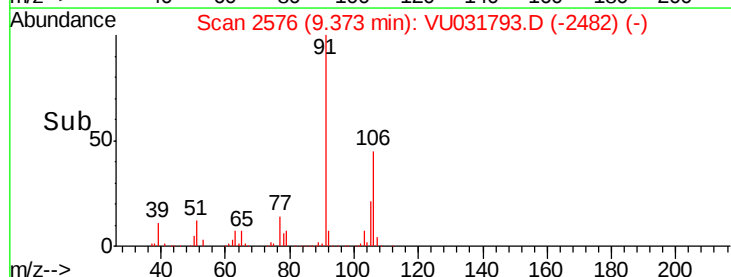
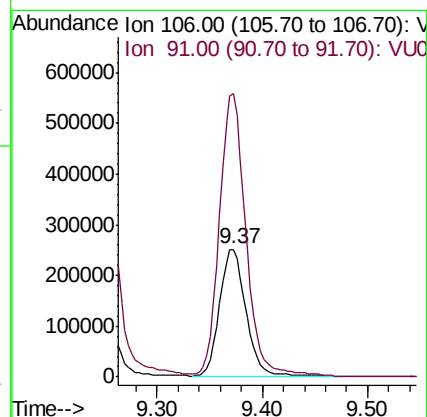
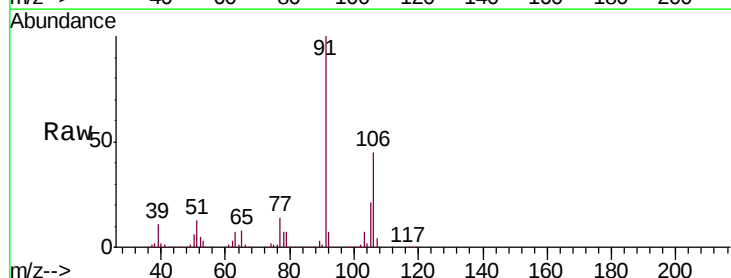
Acq: 07 May 2019 10:36

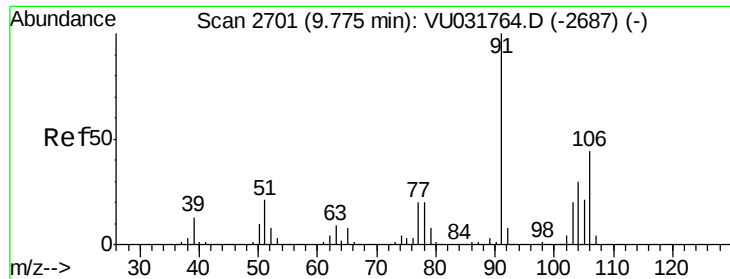
Tgt Ion: 106 Resp: 440411

Ion Ratio Lower Upper

106 100

91 221.9 152.2 282.6





#54

o-xylene

Concen: 48.604 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU031793.D

Acq: 07 May 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

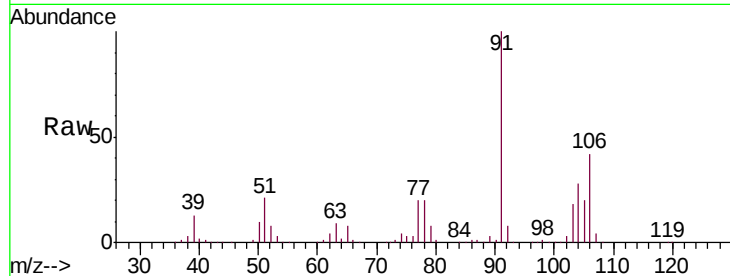
VSTD05037

Tgt Ion:106 Resp: 434399

Ion Ratio Lower Upper

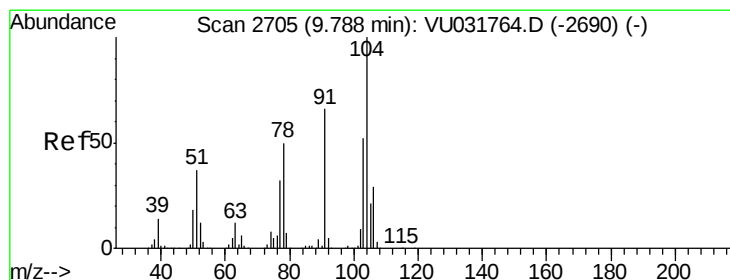
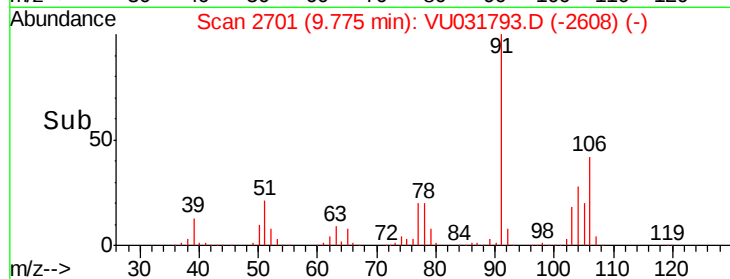
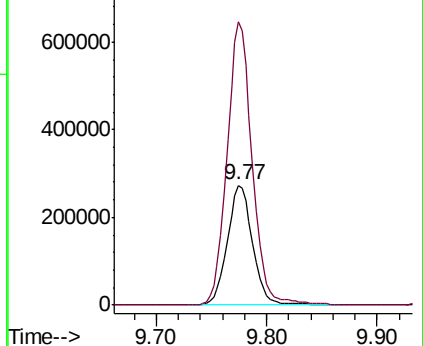
106 100

91 236.6 163.2 303.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 49.259 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. -0.00 min

Lab File: VU031793.D

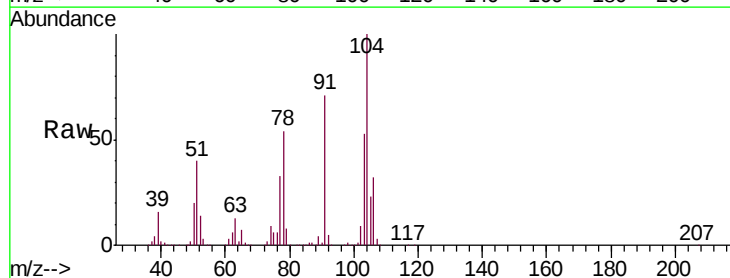
Acq: 07 May 2019 10:36

Tgt Ion:104 Resp: 752166

Ion Ratio Lower Upper

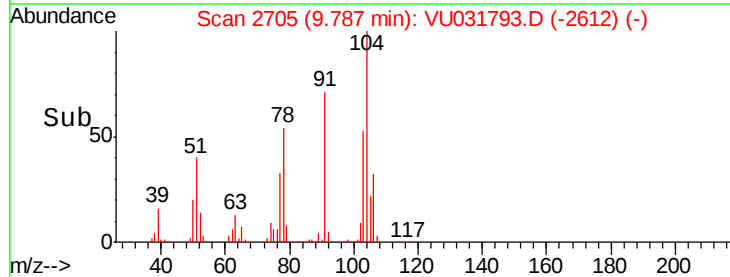
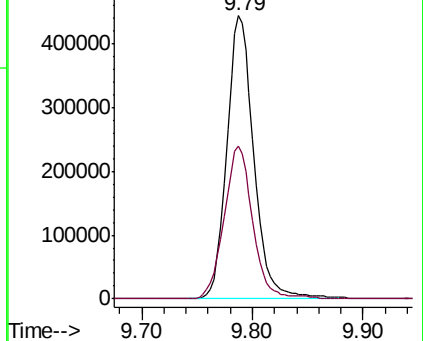
104 100

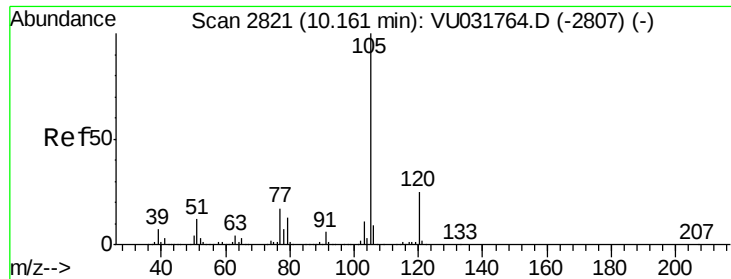
78 53.9 35.4 65.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 48.604 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU031793.D

Acq: 07 May 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05037

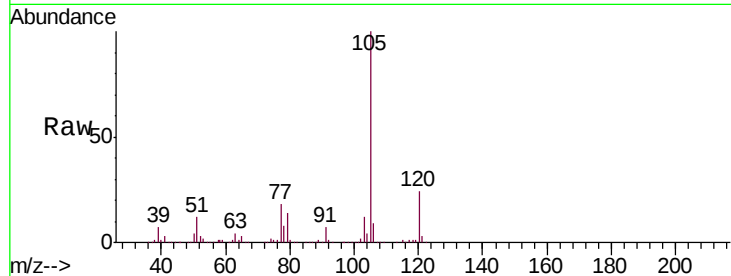
Tgt Ion:105 Resp: 1142289

Ion Ratio Lower Upper

105 100

120 24.8 20.1 30.1

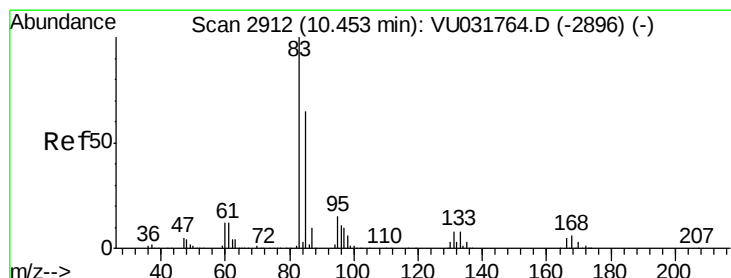
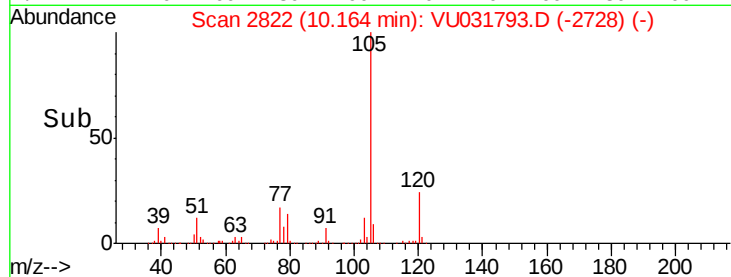
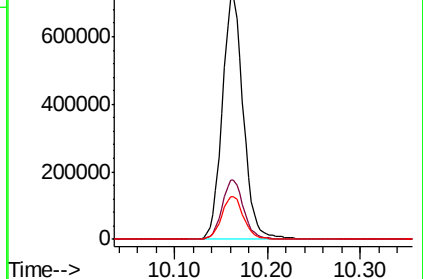
77 18.1 13.8 20.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 47.529 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU031793.D

Acq: 07 May 2019 10:36

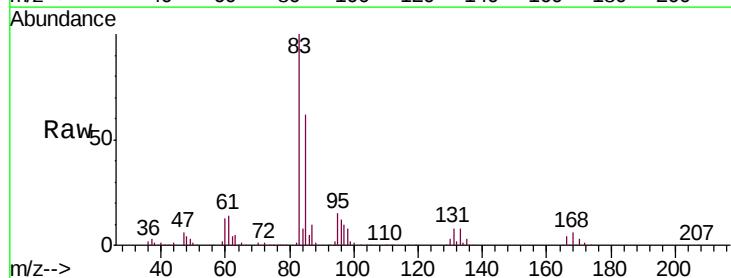
Tgt Ion: 83 Resp: 494272

Ion Ratio Lower Upper

83 100

85 62.4 46.0 85.4

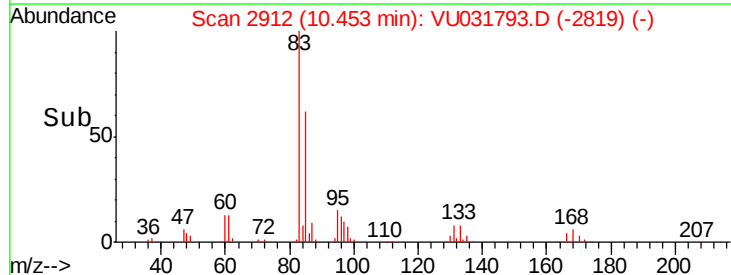
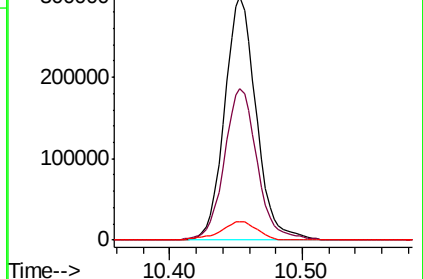
131 7.7 7.3 10.9

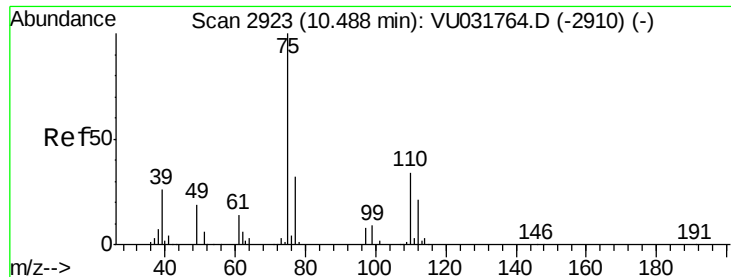


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 48.450 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. -0.00 min

Lab File: VU031793.D

Acq: 07 May 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

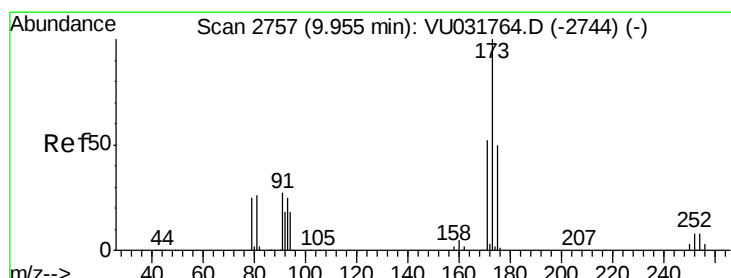
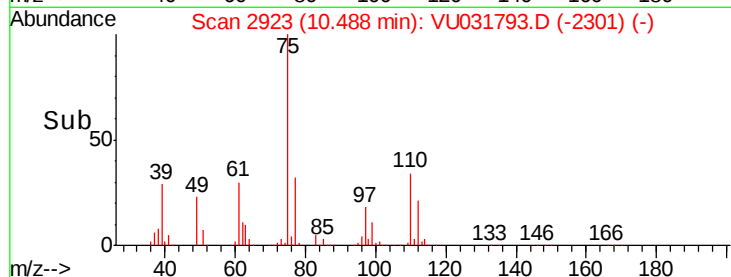
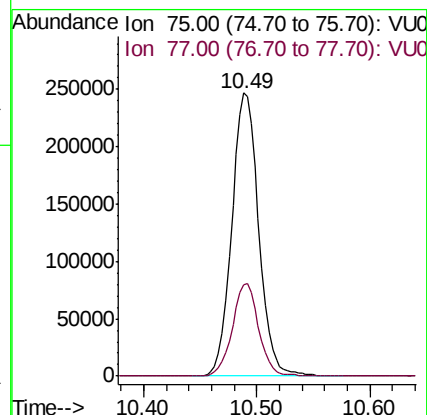
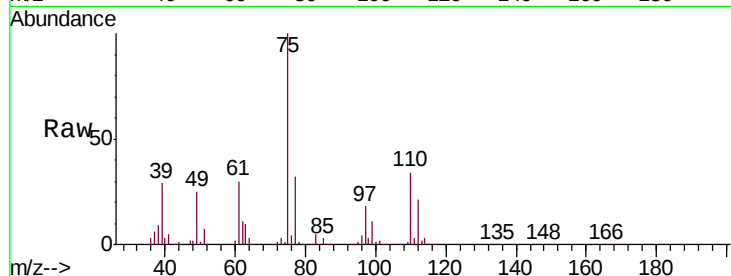
VSTD05037

Tgt Ion: 75 Resp: 408360

Ion Ratio Lower Upper

75 100

77 32.0 25.9 38.9



#61

Bromoform

Concen: 43.821 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. -0.00 min

Lab File: VU031793.D

Acq: 07 May 2019 10:36

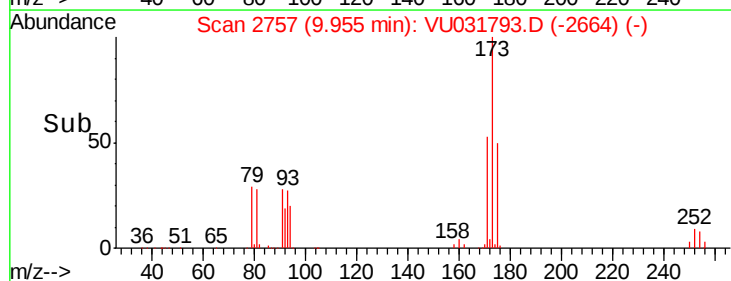
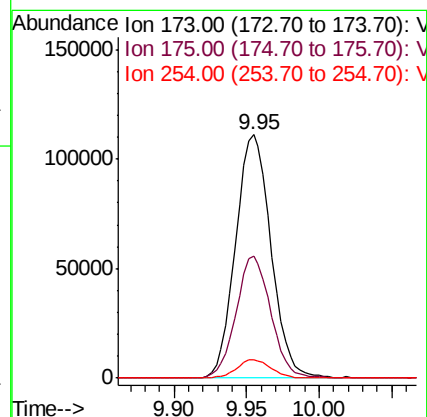
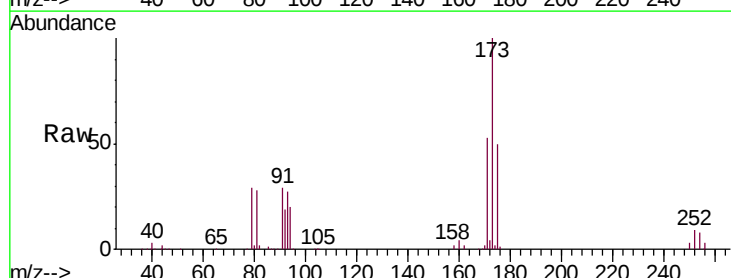
Tgt Ion: 173 Resp: 188631

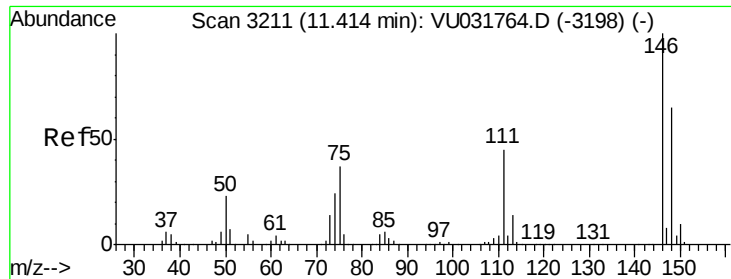
Ion Ratio Lower Upper

173 100

175 49.0 38.3 57.5

254 7.4 6.6 9.8

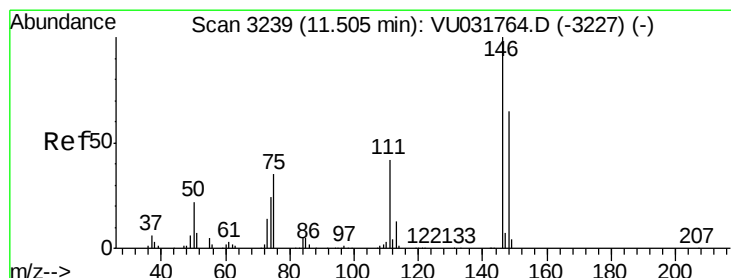
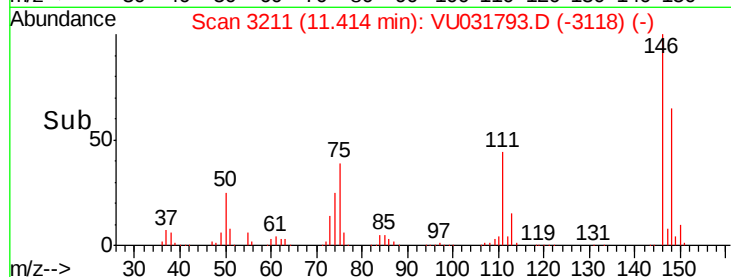
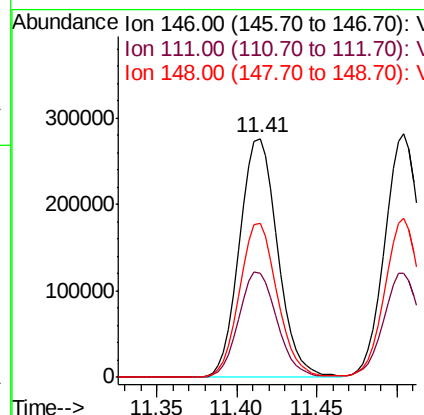
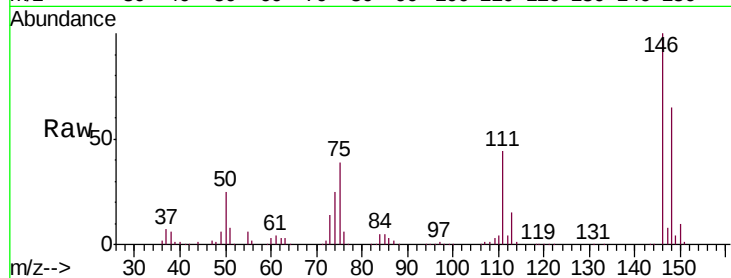




#62
 1,3-Dichlorobenzene
 Concen: 46.657 ug/L
 RT: 11.41 min Scan# 3211
 Delta R.T. -0.00 min
 Lab File: VU031793.D
 Acq: 07 May 2019 10:36

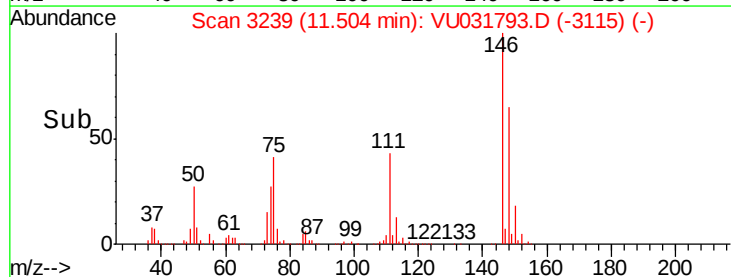
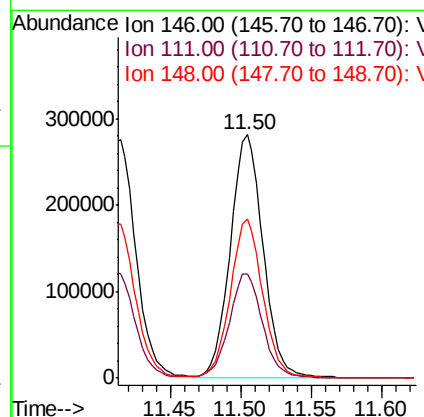
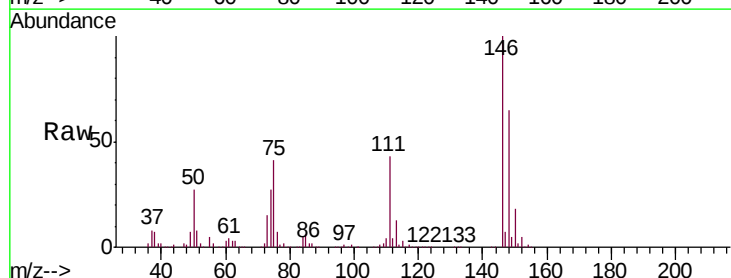
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05037

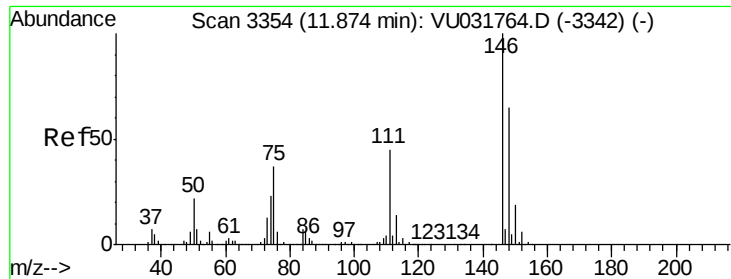
Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.8	29.8	55.4
148	64.8	45.1	83.9



#63
 1,4-Dichlorobenzene
 Concen: 45.733 ug/L
 RT: 11.50 min Scan# 3239
 Delta R.T. -0.00 min
 Lab File: VU031793.D
 Acq: 07 May 2019 10:36

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.9	28.2	52.4
148	65.4	45.4	84.4

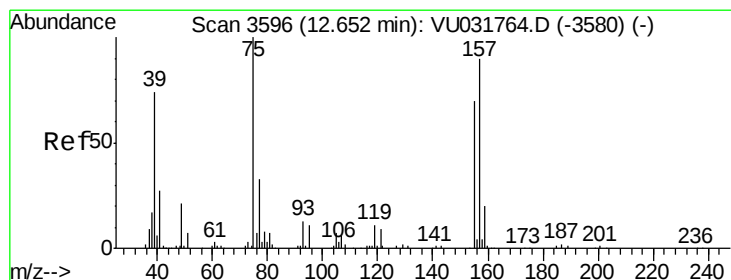
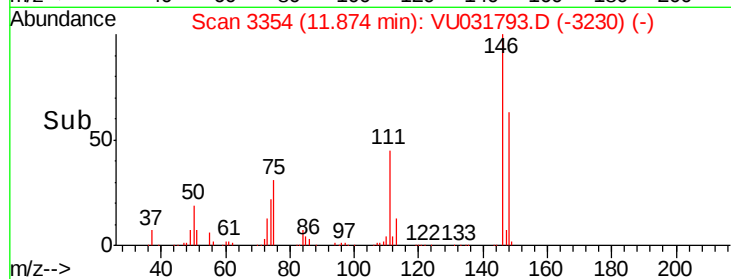
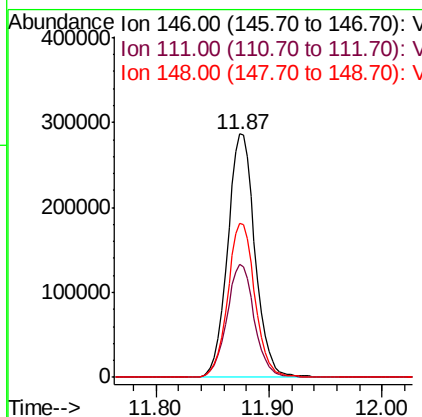
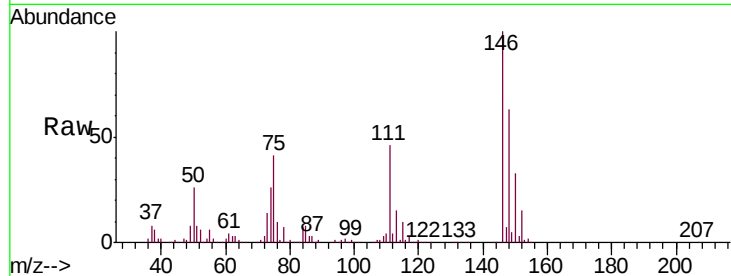




#65
 1,2-Dichlorobenzene
 Concen: 47.162 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. -0.00 min
 Lab File: VU031793.D
 Acq: 07 May 2019 10:36

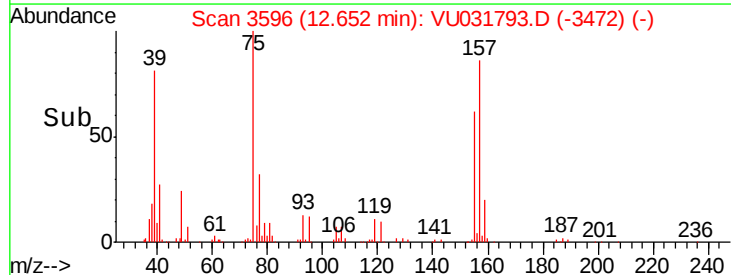
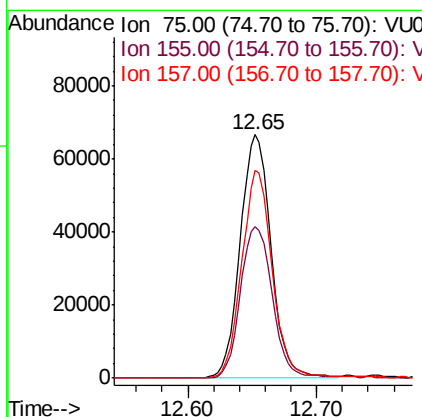
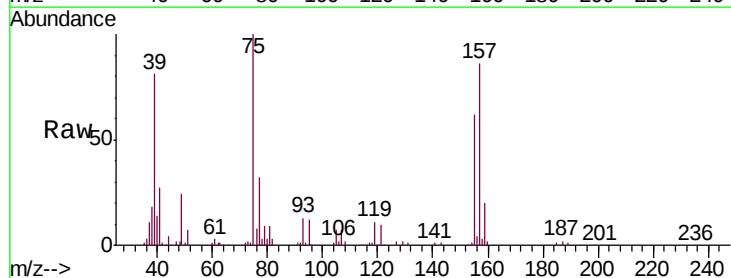
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05037

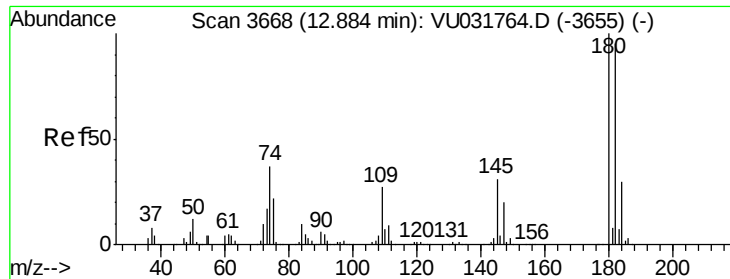
Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.3	35.9	53.9
148	63.5	50.5	75.7



#66
 1,2-Dibromo-3-chloropropane
 Concen: 46.836 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. -0.00 min
 Lab File: VU031793.D
 Acq: 07 May 2019 10:36

Tgt Ion	Ratio	Lower	Upper
75	100		
155	62.4	54.0	81.0
157	85.6	69.1	103.7

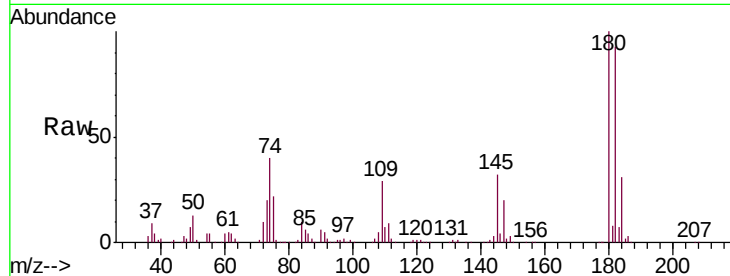




#67
 1,3,5-Trichlorobenzene
 Concen: 45.447 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. -0.00 min
 Lab File: VU031793.D
 Acq: 07 May 2019 10:36

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05037

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.9	77.3	115.9
184	30.4	24.4	36.6
145	31.5	23.8	35.8



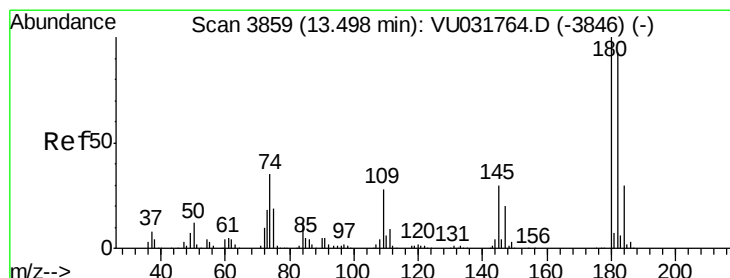
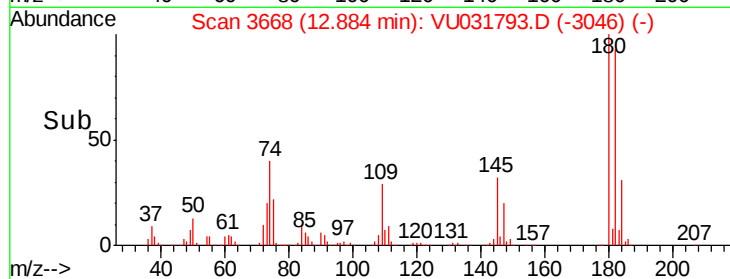
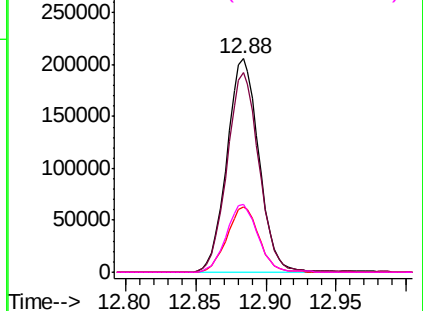
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

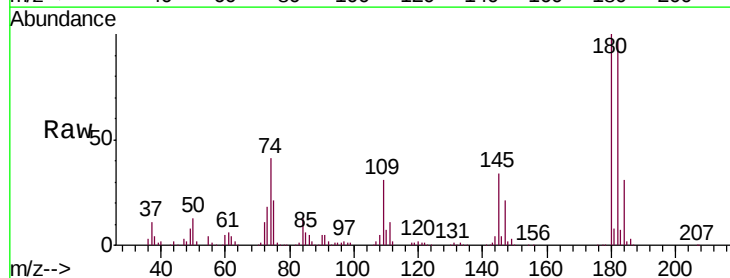
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 46.778 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. -0.00 min
 Lab File: VU031793.D
 Acq: 07 May 2019 10:36

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.2	75.8	113.8
145	33.2	24.5	36.7

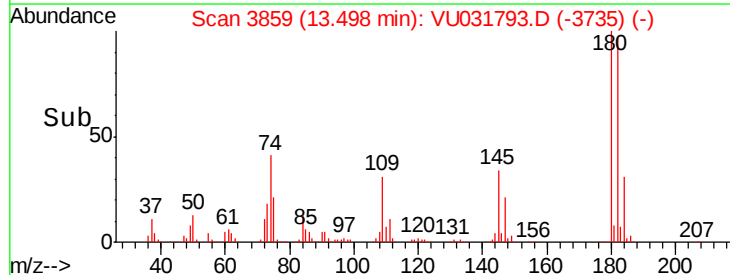
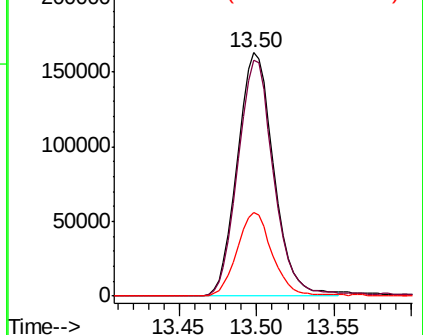


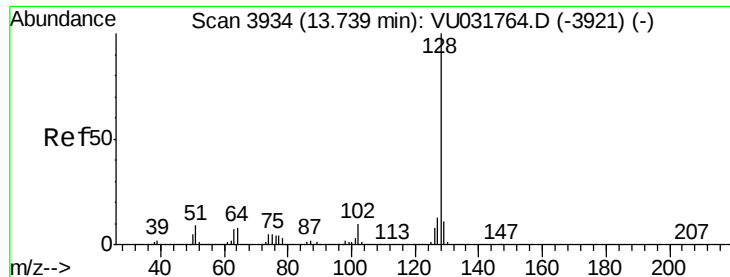
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 50.312 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU031793.D

Acq: 07 May 2019 10:36

Instrument :

MSVOA_U

ClientSampleId :

VSTD05037

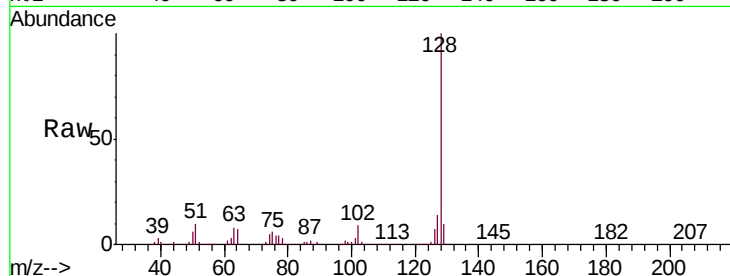
Tgt Ion:128 Resp: 977707

Ion Ratio Lower Upper

128 100

127 13.5 10.6 15.8

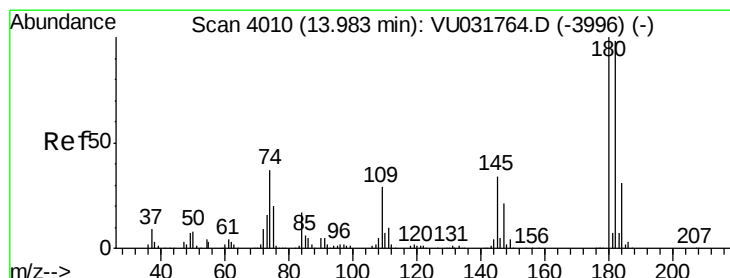
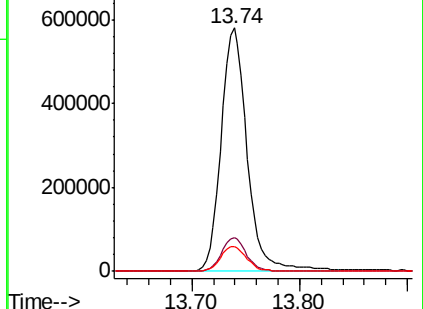
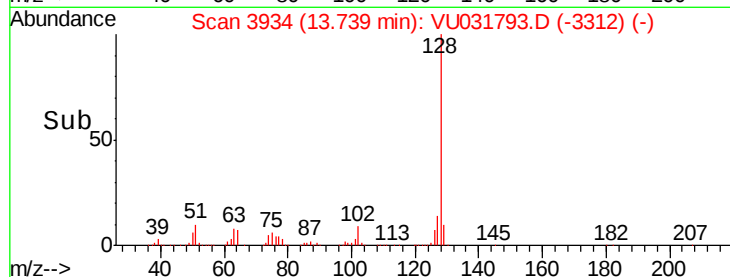
129 10.3 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 45.478 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU031793.D

Acq: 07 May 2019 10:36

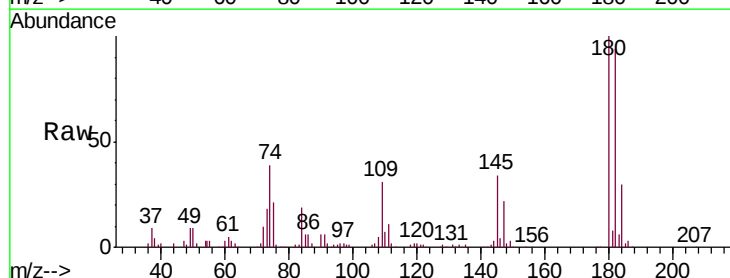
Tgt Ion:180 Resp: 295104

Ion Ratio Lower Upper

180 100

182 93.8 76.1 114.1

145 33.7 26.0 39.0



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

