

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100518\
 Data File : VU027443.D
 Acq On : 05 Oct 2018 10:11
 Operator : MD/SY
 Sample : VSTDICC200
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20055

Quant Time: Oct 06 04:13:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100518WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Oct 06 04:10:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	223569	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	214222	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	113706	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	369553	210.04	ug/L	0.00
7) Chloroethane-d5	1.66	69	280782	207.15	ug/L	-0.02
11) 1,1-Dichloroethene-d2	2.27	63	689620	208.95	ug/L	0.00
21) 2-Butanone-d5	4.18	46	637467	448.81	ug/L	0.00
24) Chloroform-d	4.65	84	623604	221.60	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	406402	206.08	ug/L	0.00
32) Benzene-d6	5.34	84	1284169	209.16	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.33	67	441027	209.72	ug/L	0.00
41) Toluene-d8	7.57	98	1150324	209.62	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	218675	215.79	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	496964	467.89	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	603176	219.33	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	452969	203.62	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	453912	204.731	ug/L	100
3) Chloromethane	1.33	50	528337	207.384	ug/L	100
5) Vinyl chloride	1.40	62	515707	207.156	ug/L	98
6) Bromomethane	1.60	94	244291	224.550	ug/L	99
8) Chloroethane	1.68	64	291952	195.689	ug/L	100
9) Trichlorofluoromethane	1.88	101	505776	202.970	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	303550	205.187	ug/L	100
12) 1,1-Dichloroethene	2.28	96	293602	203.301	ug/L	91
13) Acetone	2.32	43	442359	379.715	ug/L	99
14) Carbon disulfide	2.48	76	1073043	202.276	ug/L	100
15) Methyl Acetate	2.61	43	484477	207.532	ug/L	99
16) Methylene chloride	2.70	84	359023	204.684	ug/L	97
17) trans-1,2-Dichloroethene	2.98	96	327187	204.589	ug/L	100
18) Methyl tert-butyl Ether	3.00	73	1128328	212.198	ug/L	100
19) 1,1-Dichloroethane	3.45	63	685329	207.537	ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	370471	208.827	ug/L	99
22) 2-Butanone	4.26	43	707696	424.372	ug/L	100
23) Bromochloromethane	4.55	128	170241	210.429	ug/L	99
25) Chloroform	4.67	83	632463	198.266	ug/L	99
27) 1,2-Dichloroethane	5.40	62	519855	202.916	ug/L	100
29) Cyclohexane	5.00	56	690308	212.447	ug/L	100
30) 1,1,1-Trichloroethane	4.92	97	523370	204.193	ug/L	99
31) Carbon tetrachloride	5.13	117	448447	208.015	ug/L	99
33) Benzene	5.39	78	1436206	204.018	ug/L	100
34) Trichloroethene	6.19	95	344693	203.601	ug/L	99
35) Methylcyclohexane	6.42	83	627952	213.476	ug/L	99
37) 1,2-Dichloropropane	6.43	63	418112	205.003	ug/L	100
38) Bromodichloromethane	6.76	83	484841	209.195	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	648863	216.512	ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	1310959	438.942	ug/L	100

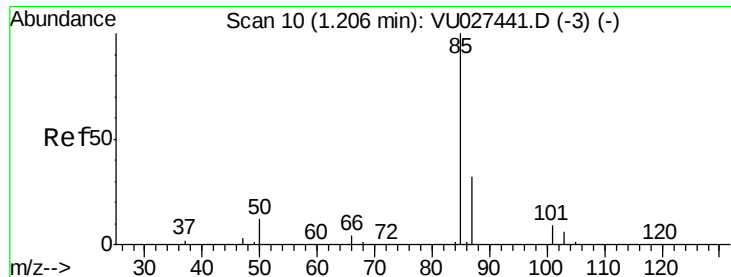
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100518\
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Quant Time: Oct 06 04:13:32 2018
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 Quant Title : VOC Analysis
 QLast Update : Sat Oct 06 04:10:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.64	91	1468006	207.835	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	602353	216.535	ug/L	100
45) 1,1,2-Trichloroethane	8.07	97	335934	205.184	ug/L	99
46) Tetrachloroethene	8.23	164	259956	206.607	ug/L	98
48) 2-Hexanone	8.37	43	1028709	436.206	ug/L	99
49) Dibromochloromethane	8.48	129	367671	215.368	ug/L	96
50) 1,2-Dibromoethane	8.59	107	357863	206.028	ug/L	99
51) Chlorobenzene	9.12	112	916843	205.316	ug/L	99
52) Ethylbenzene	9.25	91	1666097	212.438	ug/L	99
53) m,p-Xylene	9.38	106	607429	211.607	ug/L	99
54) o-xylene	9.78	106	599719	216.865	ug/L	99
55) Styrene	9.79	104	1056772	223.157	ug/L	99
56) Isopropylbenzene	10.17	105	1592781	219.780	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.46	83	614489	214.211	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	490178	212.283	ug/L	99
61) Bromoform	9.96	173	275624	213.334	ug/L	99
62) 1,3-Dichlorobenzene	11.42	146	732594	207.014	ug/L	99
63) 1,4-Dichlorobenzene	11.51	146	742941	201.264	ug/L	100
65) 1,2-Dichlorobenzene	11.88	146	723832	200.924	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.66	75	142931	214.025	ug/L	98
67) 1,3,5-Trichlorobenzene	12.89	180	563358	206.043	ug/L	100
68) 1,2,4-trichlorobenzene	13.50	180	533143	212.037	ug/L	100
69) Naphthalene	13.74	128	1742920	224.802	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	526260	205.818	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 204.731 ug/L

RT: 1.21 min Scan# 10

Delta R.T. -0.00 min

Lab File: VU027443.D

Acq: 05 Oct 2018 10:11

Instrument :

MSVOA_U

ClientSampleId :

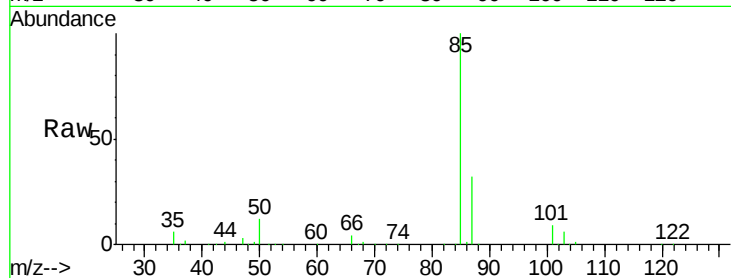
VSTD20055

Tgt Ion: 85 Resp: 453912

Ion Ratio Lower Upper

85 100

87 32.1 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

1.21

400000

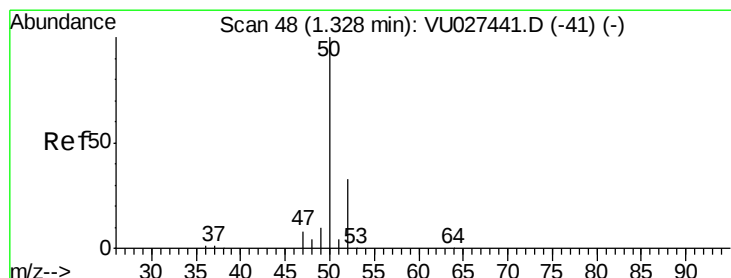
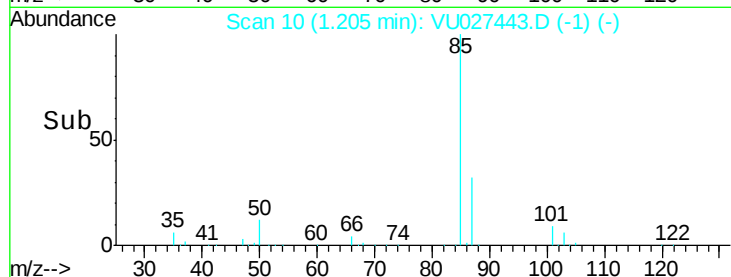
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: 207.384 ug/L

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU027443.D

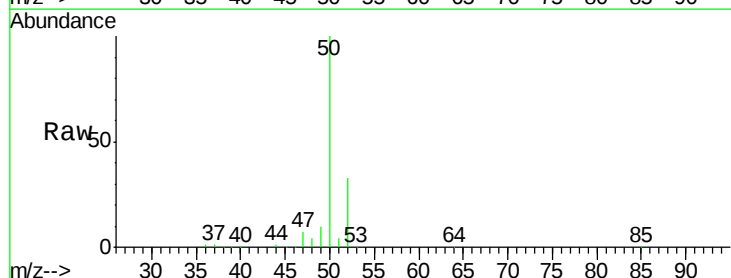
Acq: 05 Oct 2018 10:11

Tgt Ion: 50 Resp: 528337

Ion Ratio Lower Upper

50 100

52 33.0 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0

1.33

600000

500000

400000

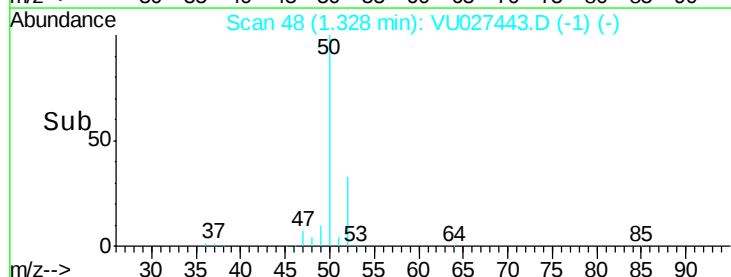
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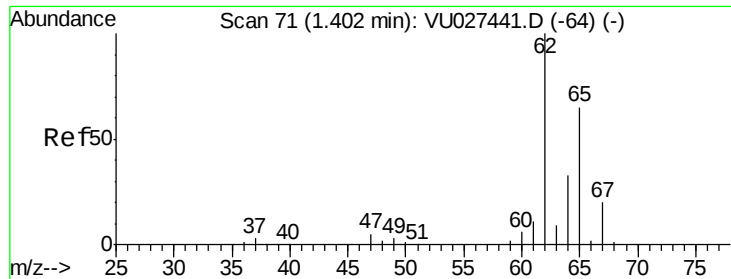
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100000

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Time-->





#5

Vinyl chloride

Concen: 207.156 ug/L

RT: 1.40 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU027443.D

Acq: 05 Oct 2018 10:11

Instrument :

MSVOA_U

ClientSampleId :

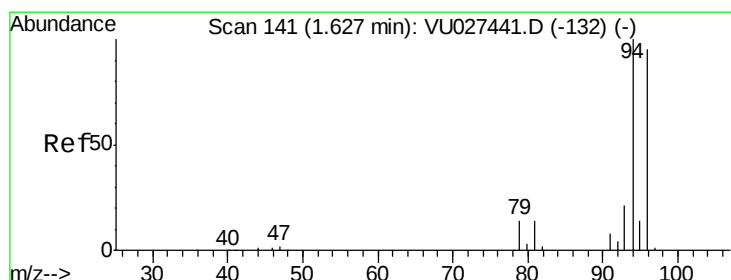
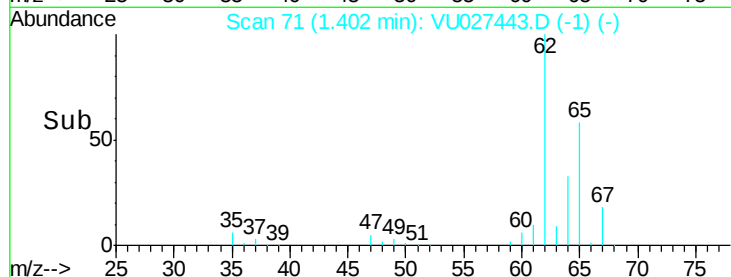
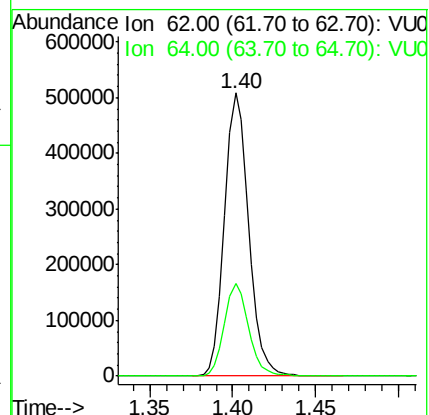
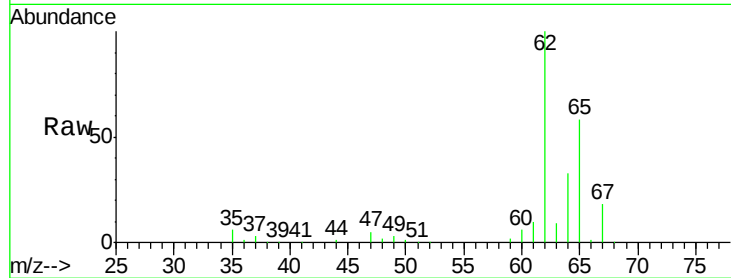
VSTD20055

Tgt Ion: 62 Resp: 515707

Ion Ratio Lower Upper

62 100

64 32.5 23.5 43.7



#6

Bromomethane

Concen: 224.550 ug/L

RT: 1.60 min Scan# 134

Delta R.T. -0.02 min

Lab File: VU027443.D

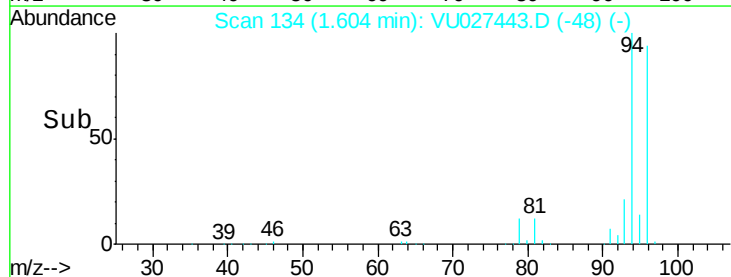
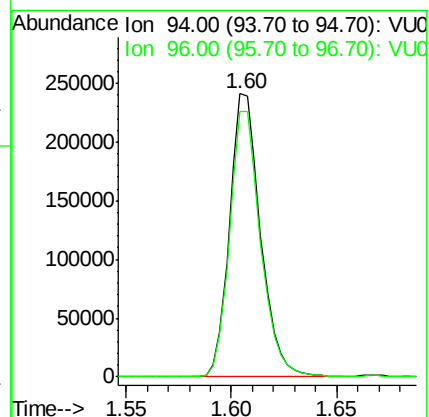
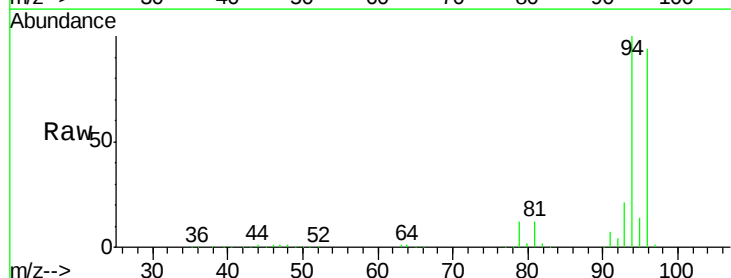
Acq: 05 Oct 2018 10:11

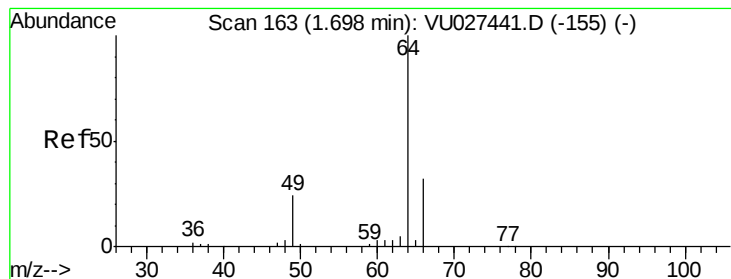
Tgt Ion: 94 Resp: 244291

Ion Ratio Lower Upper

94 100

96 93.8 66.6 123.8





#8

Chloroethane

Concen: 195.689 ug/L

RT: 1.68 min Scan# 159

Delta R.T. -0.01 min

Lab File: VU027443.D

Acq: 05 Oct 2018 10:11

Instrument :

MSVOA_U

ClientSampleId :

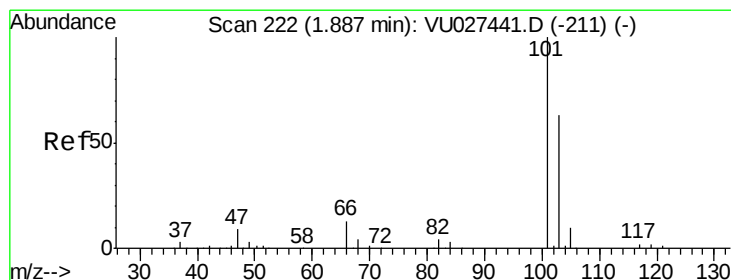
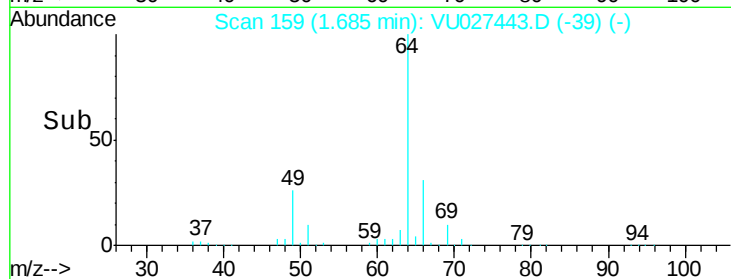
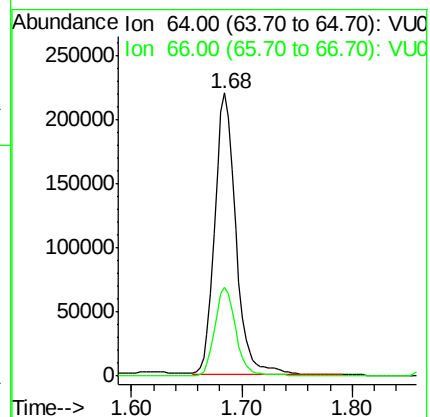
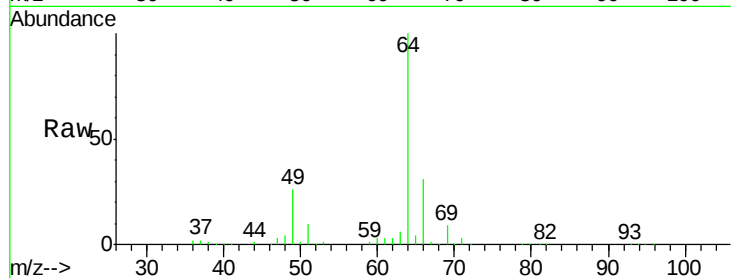
VSTD20055

Tgt Ion: 64 Resp: 291952

Ion Ratio Lower Upper

64 100

66 31.4 22.0 40.8



#9

Trichlorofluoromethane

Concen: 202.970 ug/L

RT: 1.88 min Scan# 220

Delta R.T. -0.01 min

Lab File: VU027443.D

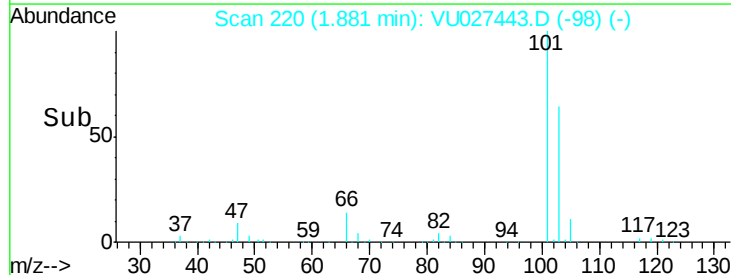
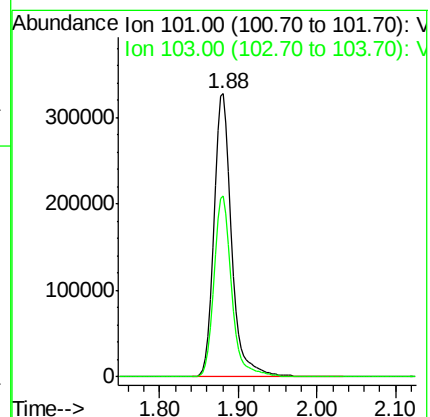
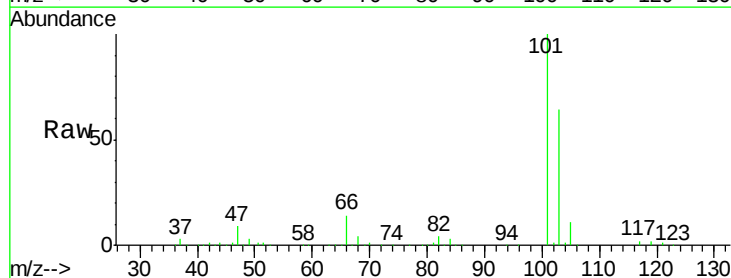
Acq: 05 Oct 2018 10:11

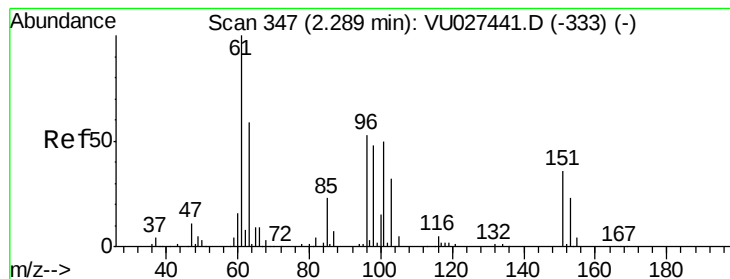
Tgt Ion: 101 Resp: 505776

Ion Ratio Lower Upper

101 100

103 64.2 51.1 76.7





#10

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

Concen: 205.187 ug/L

RT: 2.28 min Scan# 345

Delta R.T. -0.01 min

Lab File: VU027443.D

Acq: 05 Oct 2018 10:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD20055

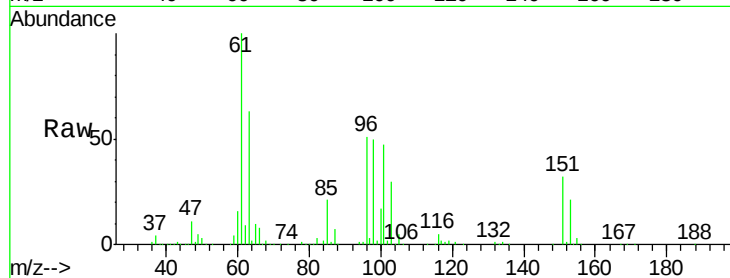
Tgt Ion: 101 Resp: 303550

Ion Ratio Lower Upper

101 100

85 44.6 35.9 53.9

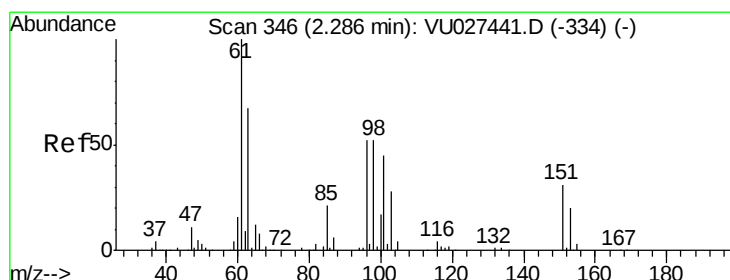
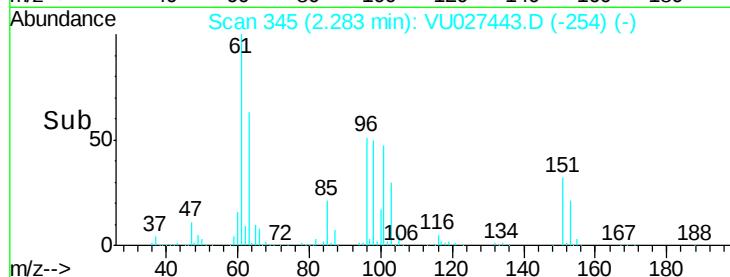
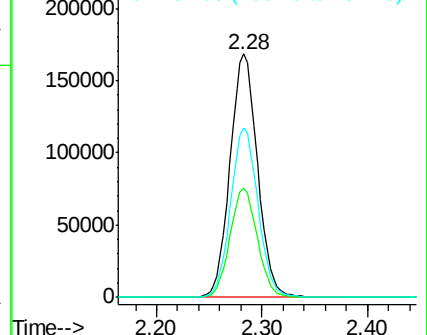
151 69.4 55.7 83.5



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: 203.301 ug/L

RT: 2.28 min Scan# 344

Delta R.T. -0.01 min

Lab File: VU027443.D

Acq: 05 Oct 2018 10:11

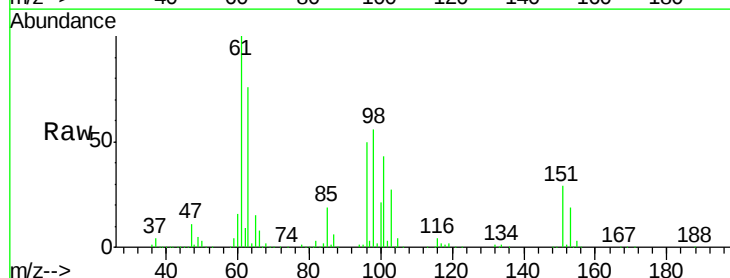
Tgt Ion: 96 Resp: 293602

Ion Ratio Lower Upper

96 100

61 200.5 135.2 251.0

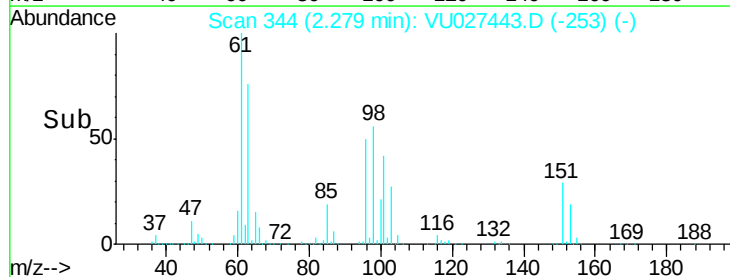
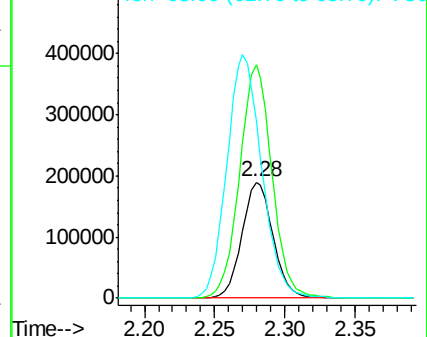
63 152.2 94.3 175.1

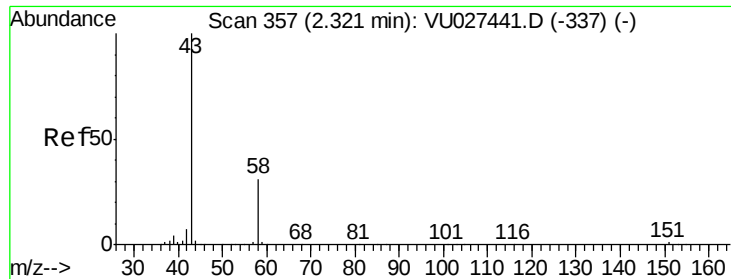


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 379.715 ug/L

RT: 2.32 min Scan# 358

Delta R.T. 0.00 min

Lab File: VU027443.D

Acq: 05 Oct 2018 10:11

Instrument :

MSVOA_U

ClientSampleId :

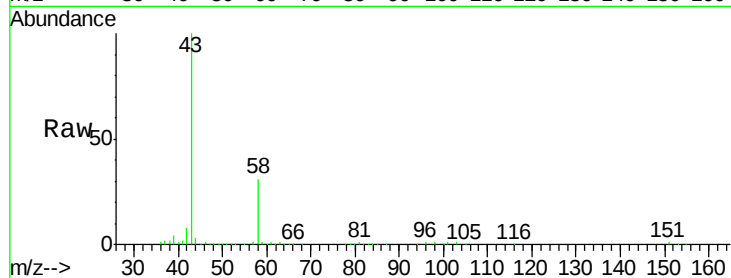
VSTD20055

Tgt Ion: 43 Resp: 442359

Ion Ratio Lower Upper

43 100

58 30.7 0.0 60.8



Abundance Ion 43.00 (42.70 to 43.70): VU027441.D (-337) (-)

Ion 58.00 (57.70 to 58.70): VU027441.D (-337) (-)

2.32

250000

200000

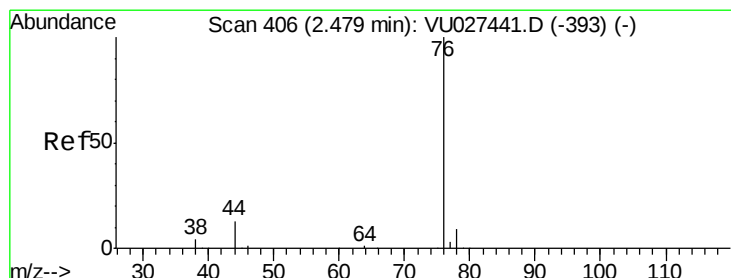
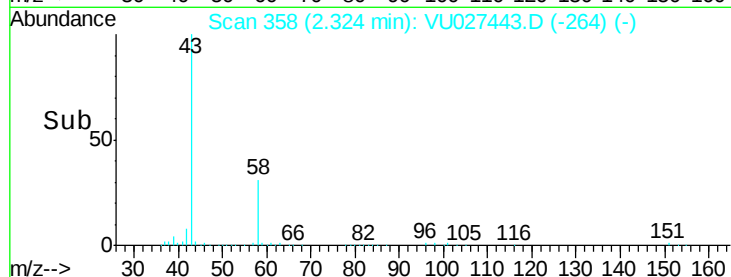
150000

100000

50000

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Time-->



#14

Carbon disulfide

Concen: 202.276 ug/L

RT: 2.48 min Scan# 405

Delta R.T. -0.00 min

Lab File: VU027443.D

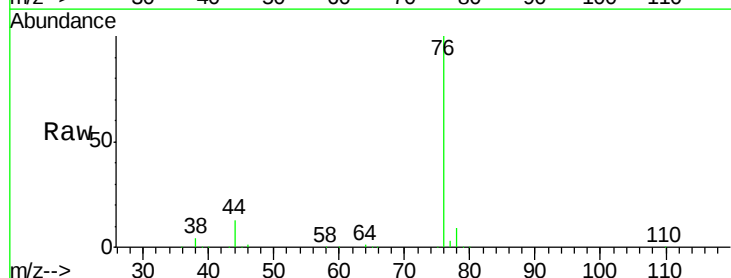
Acq: 05 Oct 2018 10:11

Tgt Ion: 76 Resp: 1073043

Ion Ratio Lower Upper

76 100

78 9.1 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU027441.D (-393) (-)

Ion 78.00 (77.70 to 78.70): VU027441.D (-393) (-)

2.48

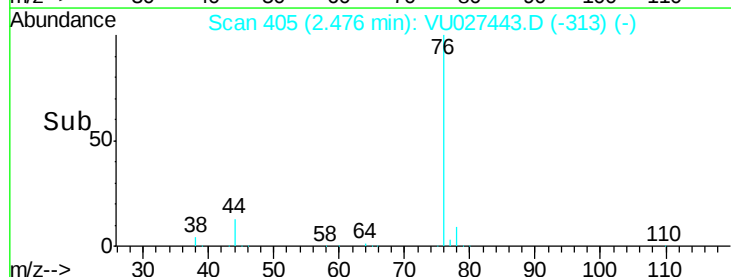
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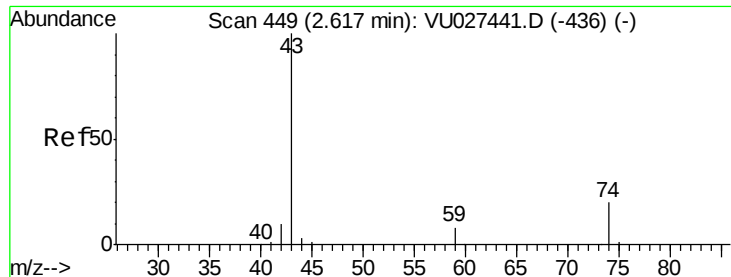
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200000

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Time-->





#15

Methyl Acetate

Concen: 207.532 ug/L

RT: 2.61 min Scan# 448

Delta R.T. -0.00 min

Lab File: VU027443.D

Acq: 05 Oct 2018 10:11

Instrument :

MSVOA_U

ClientSampleId :

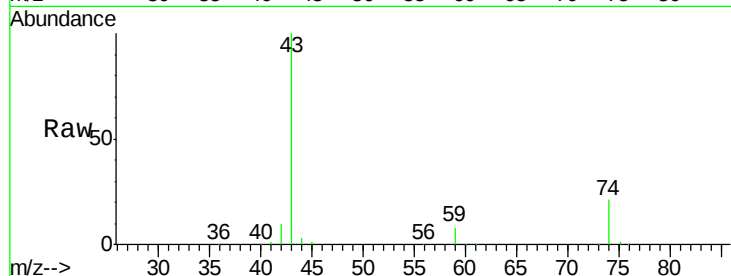
VSTD20055

Tgt Ion: 43 Resp: 484477

Ion Ratio Lower Upper

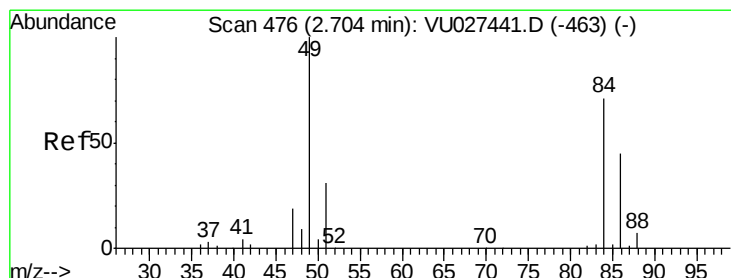
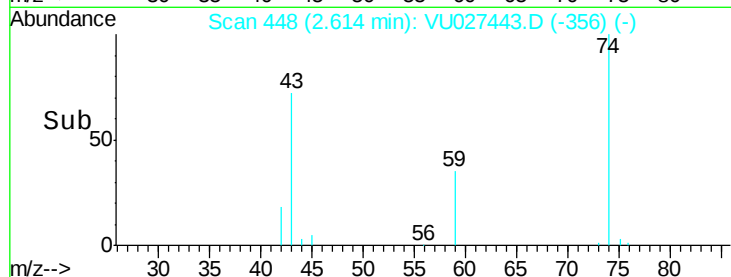
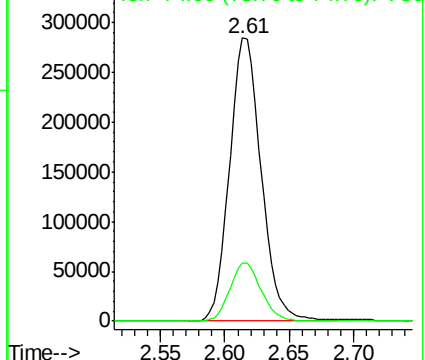
43 100

74 20.5 16.0 24.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0



#16

Methylene chloride

Concen: 204.684 ug/L

RT: 2.70 min Scan# 475

Delta R.T. -0.00 min

Lab File: VU027443.D

Acq: 05 Oct 2018 10:11

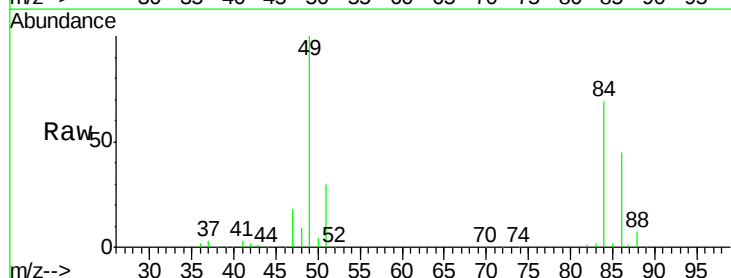
Tgt Ion: 84 Resp: 359023

Ion Ratio Lower Upper

84 100

86 64.6 44.6 82.8

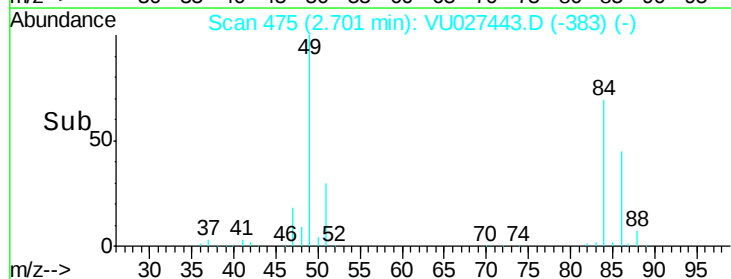
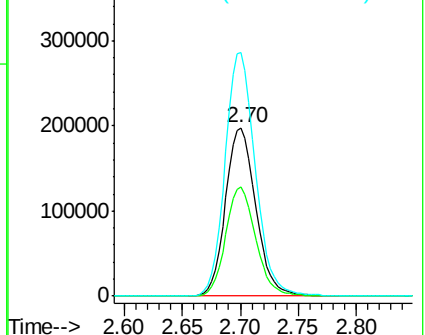
49 144.6 98.3 182.5

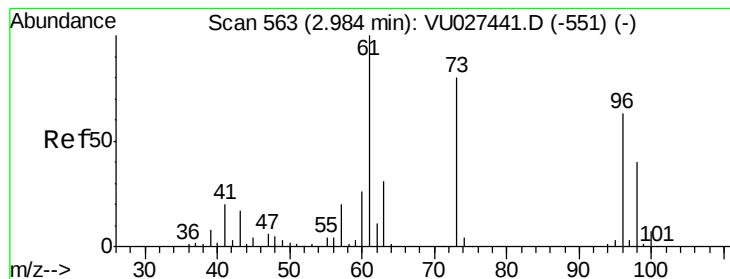


Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0





#17

trans-1,2-Dichloroethene

Concen: 204.589 ug/L

RT: 2.98 min Scan# 562

Delta R.T. -0.00 min

Lab File: VU027443.D

Acq: 05 Oct 2018 10:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD20055

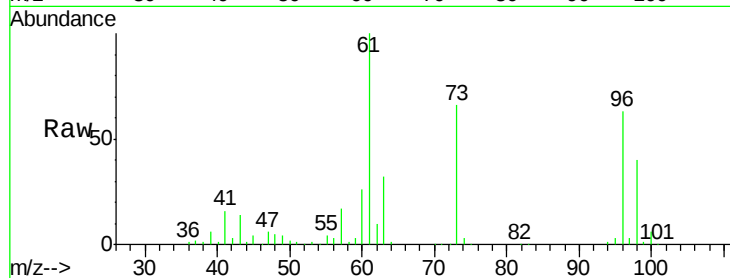
Tgt Ion: 96 Resp: 327187

Ion Ratio Lower Upper

96 100

61 158.9 110.9 205.9

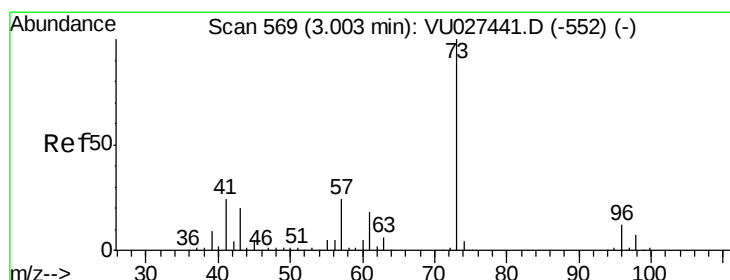
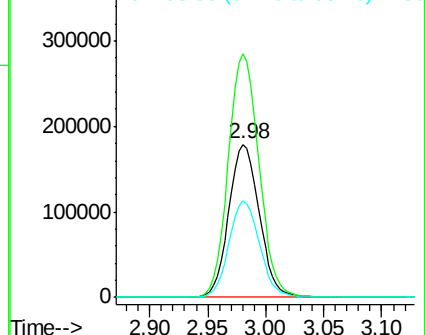
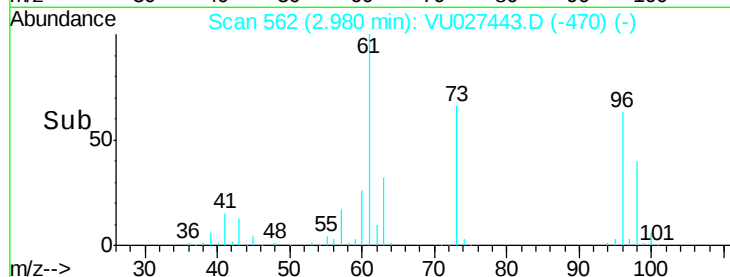
98 62.8 43.7 81.1



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 212.198 ug/L

RT: 3.00 min Scan# 568

Delta R.T. -0.00 min

Lab File: VU027443.D

Acq: 05 Oct 2018 10:11

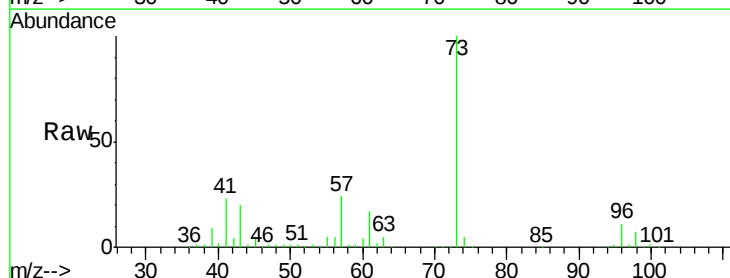
Tgt Ion: 73 Resp: 1128328

Ion Ratio Lower Upper

73 100

43 20.5 16.5 24.7

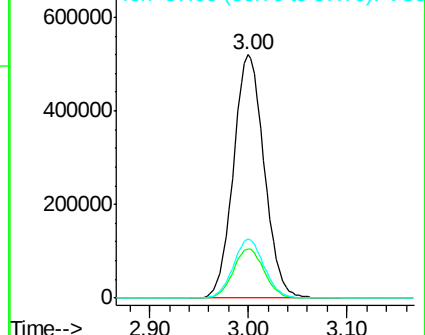
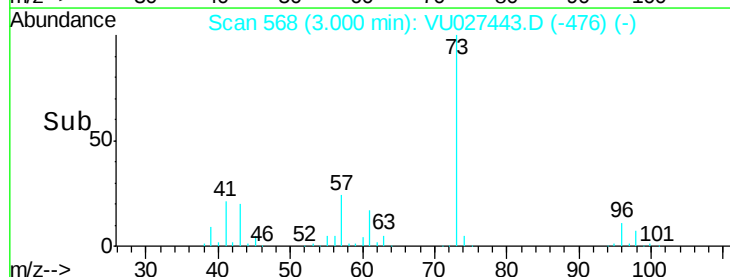
57 24.1 19.4 29.0

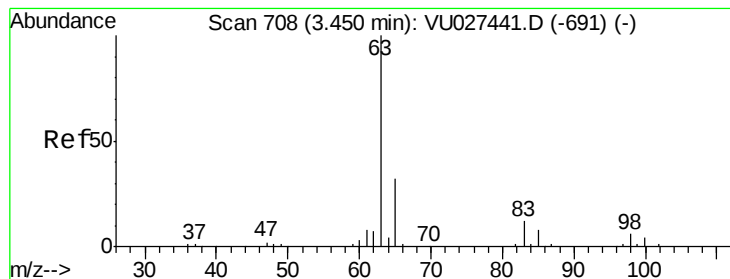


Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 207.537 ug/L

RT: 3.45 min Scan# 707

Delta R.T. -0.00 min

Lab File: VU027443.D

Acq: 05 Oct 2018 10:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD20055

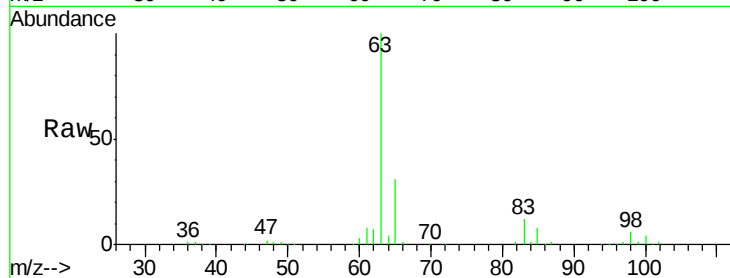
Tgt Ion: 63 Resp: 685329

Ion Ratio Lower Upper

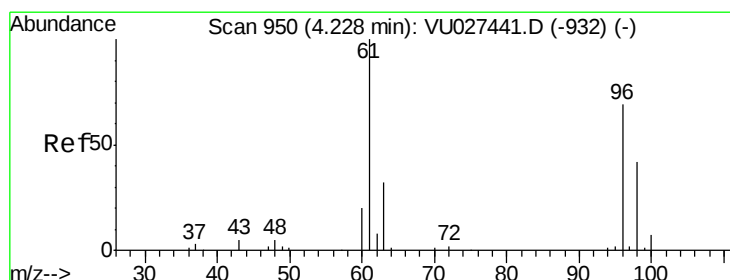
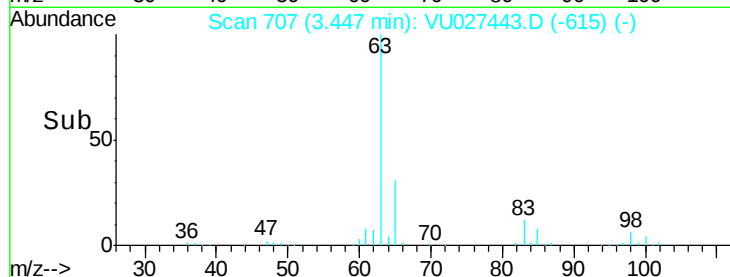
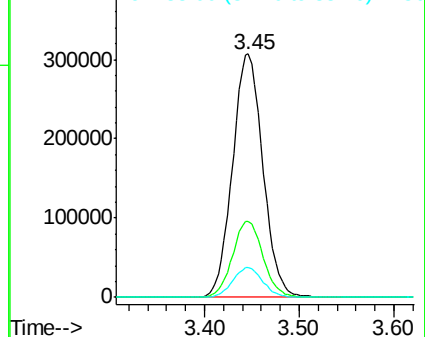
63 100

65 31.3 22.3 41.3

83 12.3 8.4 15.6



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



#20

cis-1,2-Dichloroethene

Concen: 208.827 ug/L

RT: 4.22 min Scan# 949

Delta R.T. -0.00 min

Lab File: VU027443.D

Acq: 05 Oct 2018 10:11

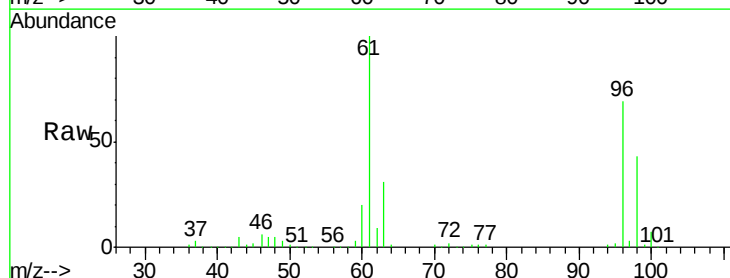
Tgt Ion: 96 Resp: 370471

Ion Ratio Lower Upper

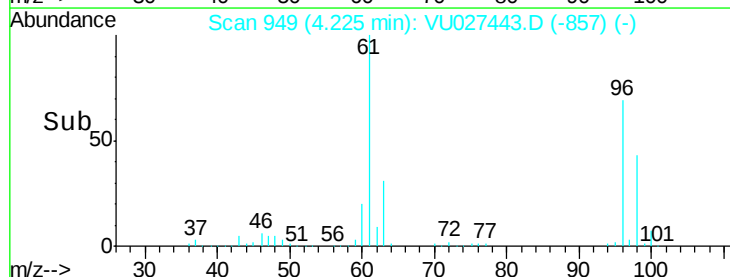
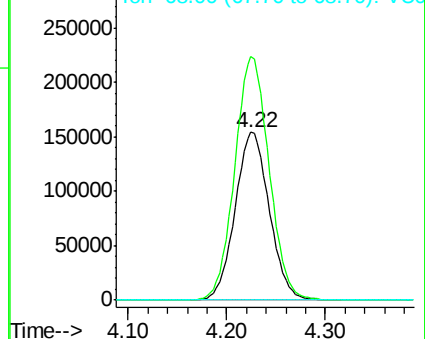
96 100

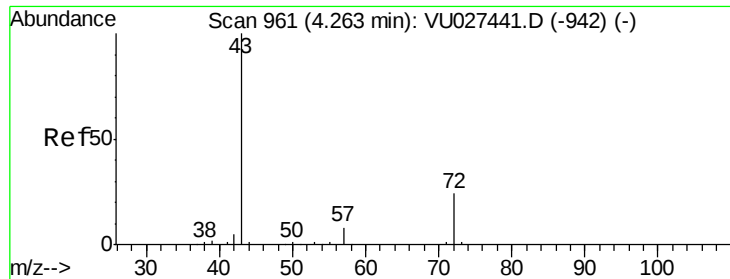
61 145.0 102.0 189.4

68 0.0 0.0 0.0



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





#22

2-Butanone

Concen: 424.372 ug/L

RT: 4.26 min Scan# 961

Delta R.T. -0.00 min

Lab File: VU027443.D

Acq: 05 Oct 2018 10:11

Instrument :

MSVOA_U

ClientSampleId :

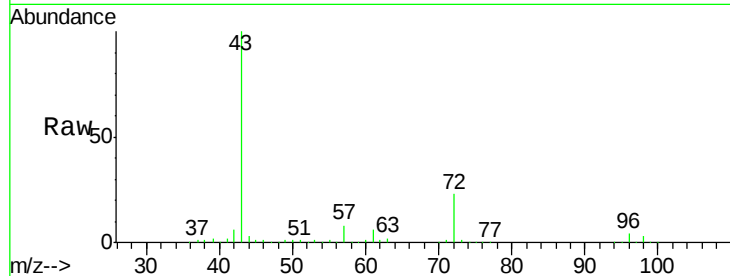
VSTD20055

Tgt Ion: 43 Resp: 707696

Ion Ratio Lower Upper

43 100

72 23.7 11.9 35.5



Abundance Ion 43.00 (42.70 to 43.70): VU027443.D (-942) (-)

Ion 72.00 (71.70 to 72.70): VU027443.D (-942) (-)

4.26

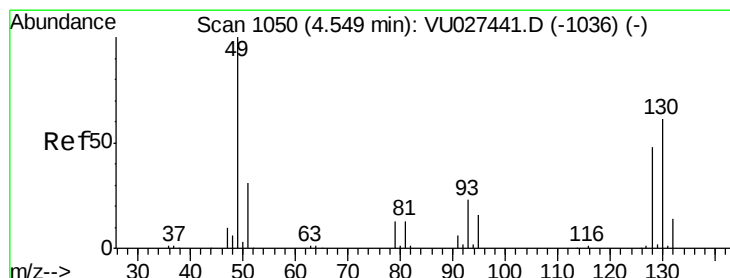
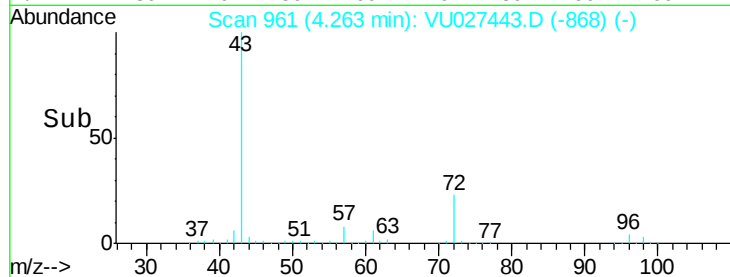
300000

200000

100000

0

Time-->



#23

Bromochloromethane

Concen: 210.429 ug/L

RT: 4.55 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VU027443.D

Acq: 05 Oct 2018 10:11

Tgt Ion: 128 Resp: 170241

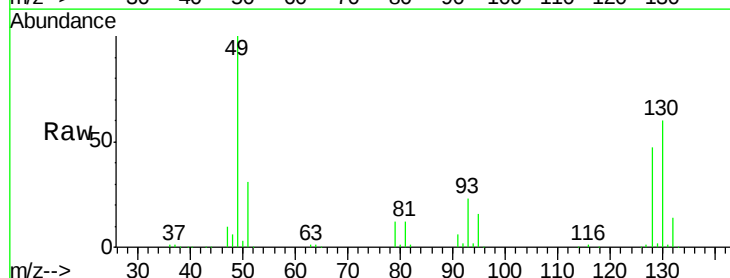
Ion Ratio Lower Upper

128 100

49 211.9 146.9 272.7

130 127.9 89.2 165.6

51 66.6 52.2 78.4



Abundance Ion 128.00 (127.70 to 128.70): VU027443.D (-957) (-)

Ion 49.00 (48.70 to 49.70): VU027443.D (-957) (-)

Ion 130.00 (129.70 to 130.70): VU027443.D (-957) (-)

Ion 51.00 (50.70 to 51.70): VU027443.D (-957) (-)

200000

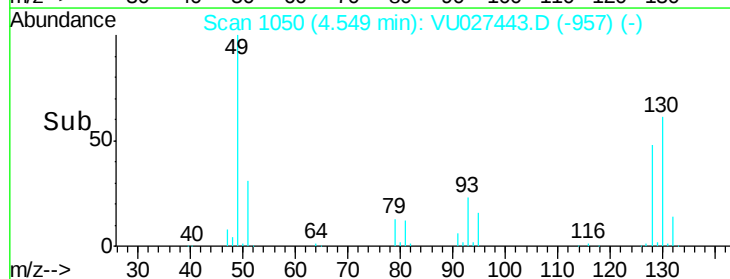
150000

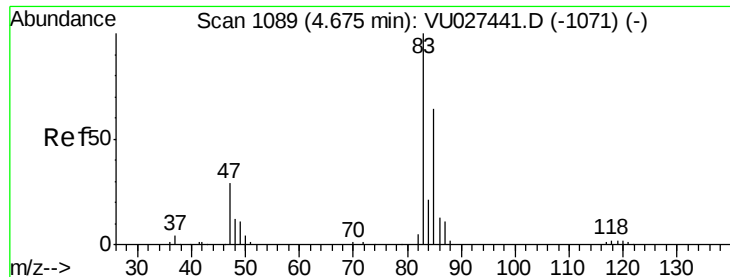
100000

50000

0

Time-->

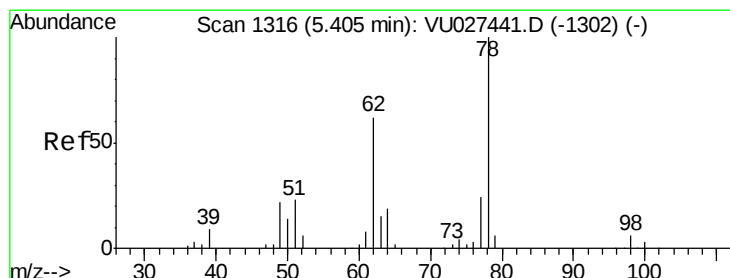
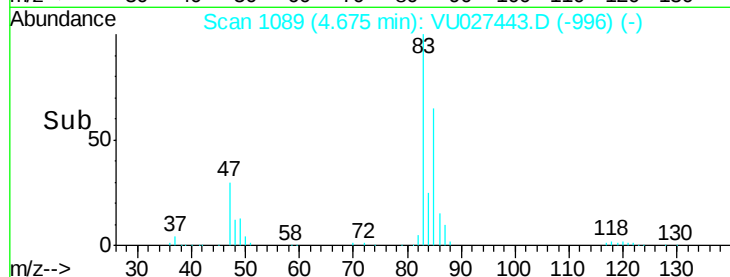
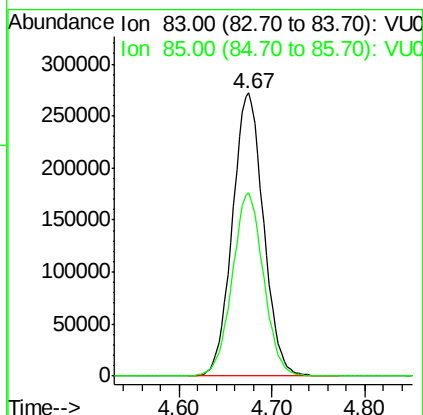
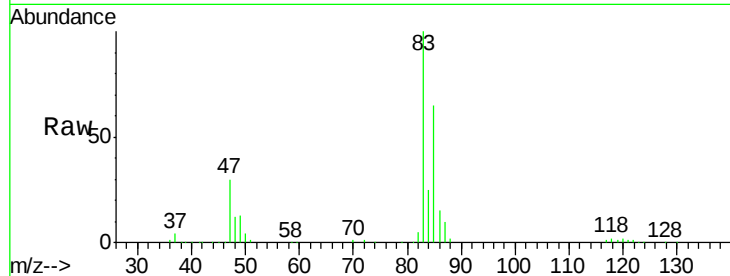




#25
Chloroform
Concen: 198.266 ug/L
RT: 4.67 min Scan# 1089
Delta R.T. -0.00 min
Lab File: VU027443.D
Acq: 05 Oct 2018 10:11

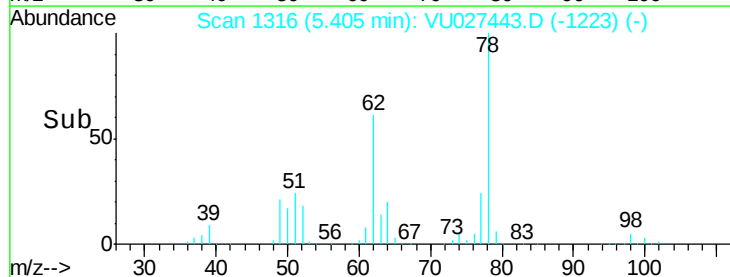
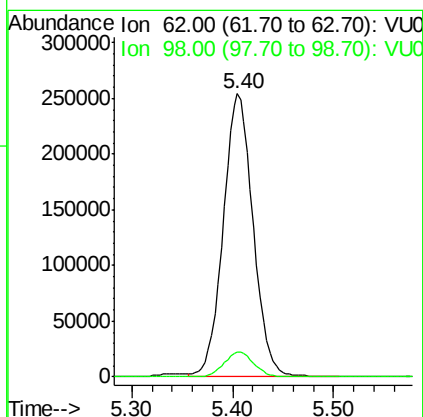
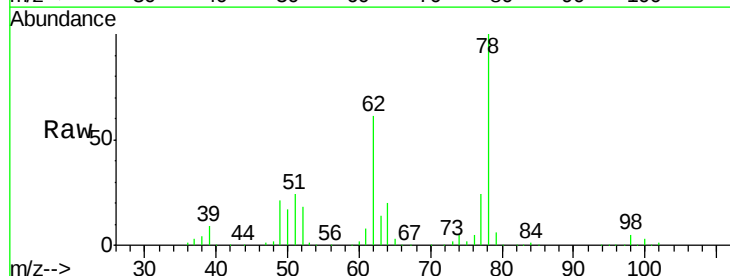
Instrument :
MSVOA_U
ClientSampleId :
VSTD20055

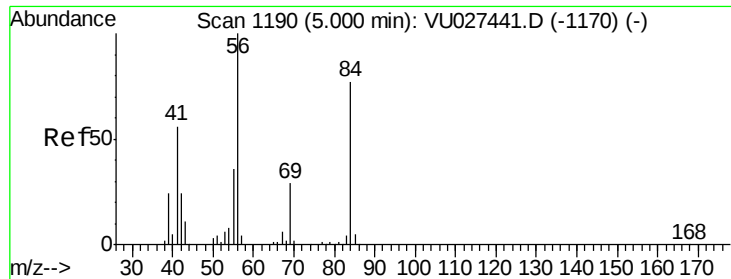
Tgt Ion: 83 Resp: 632463
Ion Ratio Lower Upper
83 100
85 64.7 45.0 83.6



#27
1,2-Dichloroethane
Concen: 202.916 ug/L
RT: 5.40 min Scan# 1316
Delta R.T. -0.00 min
Lab File: VU027443.D
Acq: 05 Oct 2018 10:11

Tgt Ion: 62 Resp: 519855
Ion Ratio Lower Upper
62 100
98 8.8 7.1 10.7

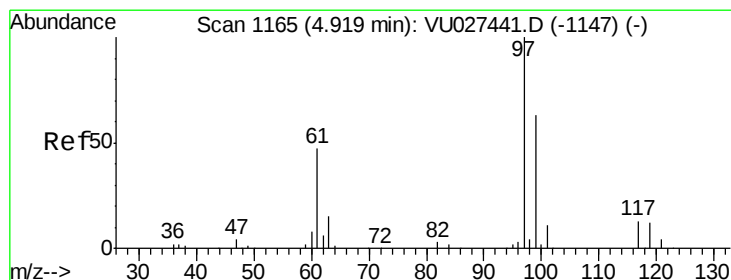
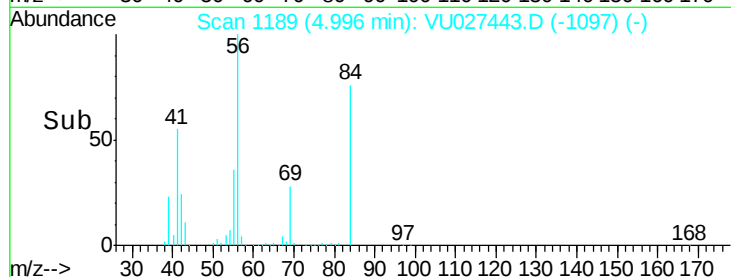
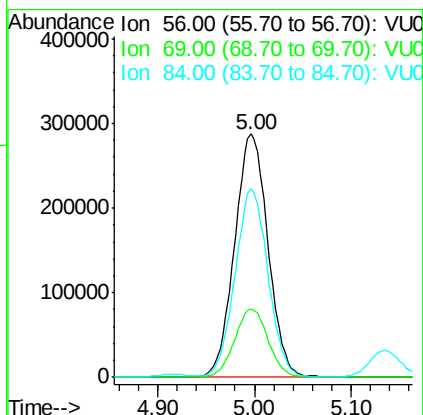
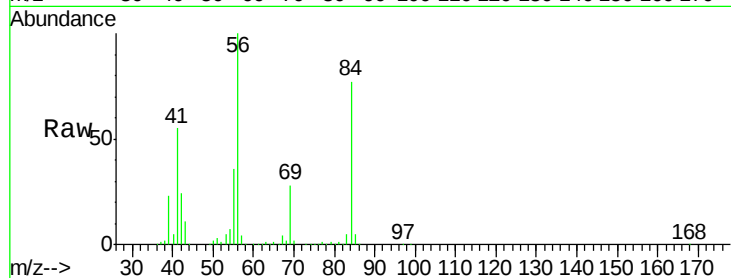




#29
Cyclohexane
Concen: 212.447 ug/L
RT: 5.00 min Scan# 1189
Delta R.T. -0.00 min
Lab File: VU027443.D
Acq: 05 Oct 2018 10:11

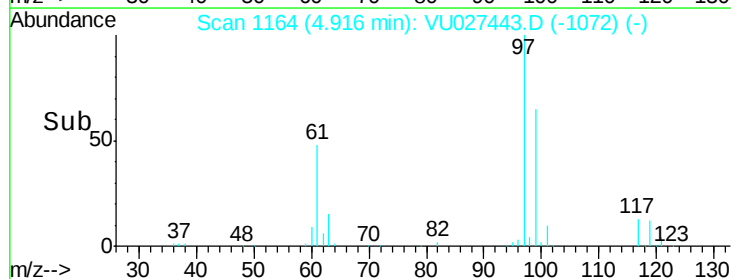
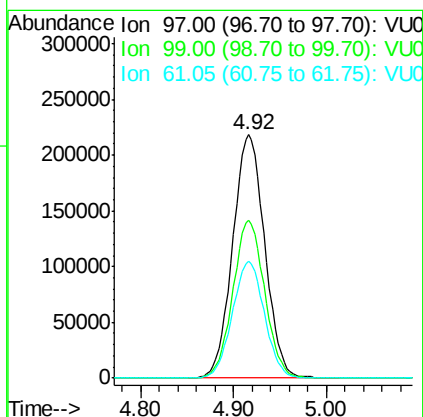
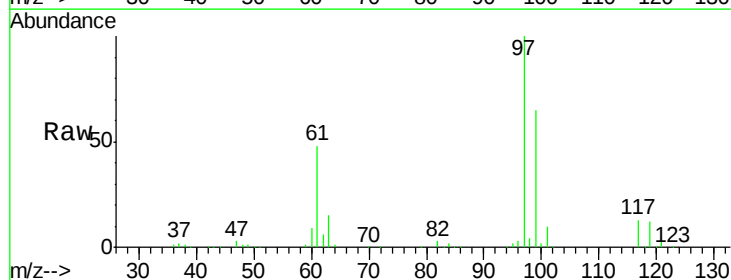
Instrument :
MSVOA_U
ClientSampleId :
VSTD20055

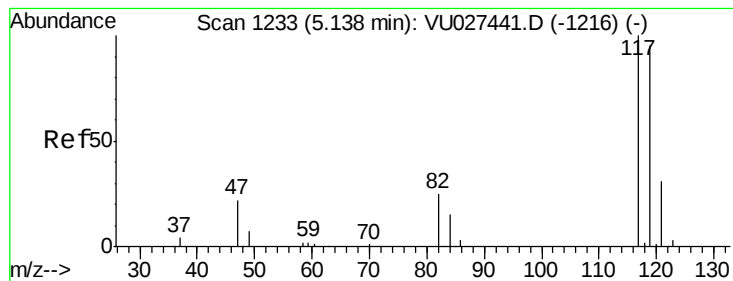
Tgt Ion	Ratio	Lower	Upper
56	100		
69	28.3	22.5	33.7
84	76.5	60.9	91.3



#30
1,1,1-Trichloroethane
Concen: 204.193 ug/L
RT: 4.92 min Scan# 1164
Delta R.T. -0.00 min
Lab File: VU027443.D
Acq: 05 Oct 2018 10:11

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.3	50.9	76.3
61	47.9	38.2	57.4





#31

Carbon tetrachloride

Concen: 208.015 ug/L

RT: 5.13 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VU027443.D

Acq: 05 Oct 2018 10:11

Instrument :

MSVOA_U

ClientSampleId :

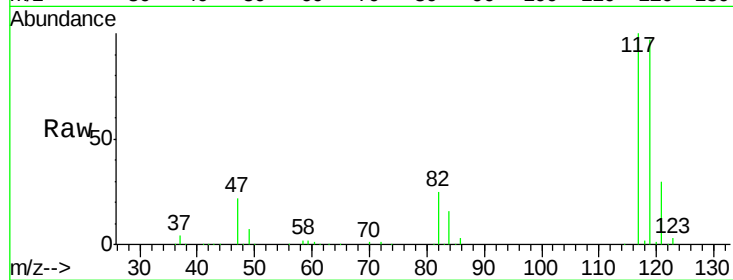
VSTD20055

Tgt Ion:117 Resp: 448447

Ion Ratio Lower Upper

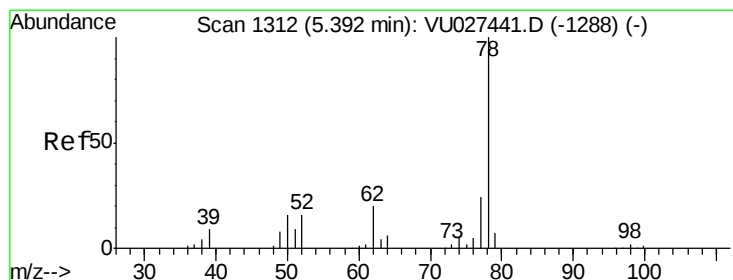
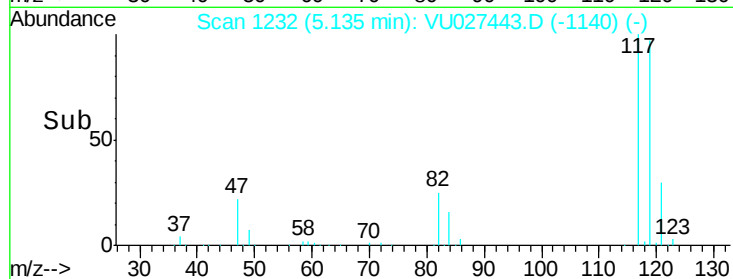
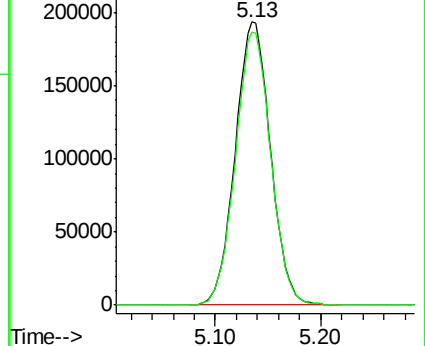
117 100

119 96.8 76.8 115.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 204.018 ug/L

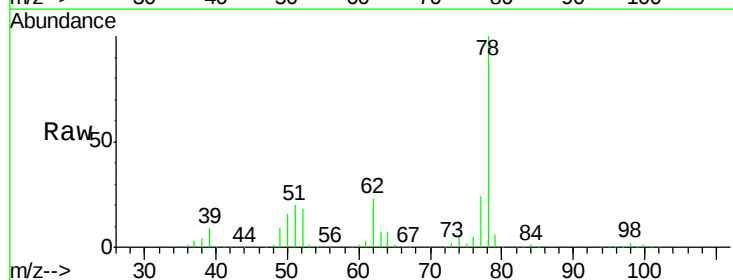
RT: 5.39 min Scan# 1312

Delta R.T. -0.00 min

Lab File: VU027443.D

Acq: 05 Oct 2018 10:11

Tgt Ion: 78 Resp: 1436206



Abundance Ion 78.00 (77.70 to 78.70): VU0

800000

600000

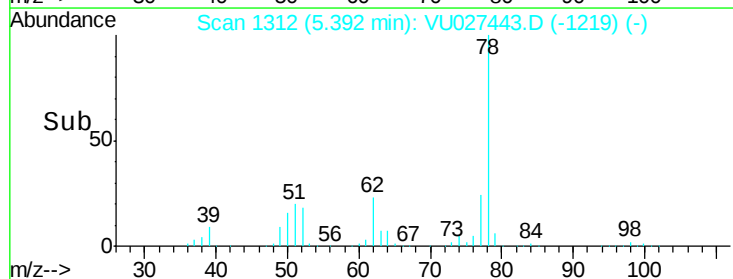
400000

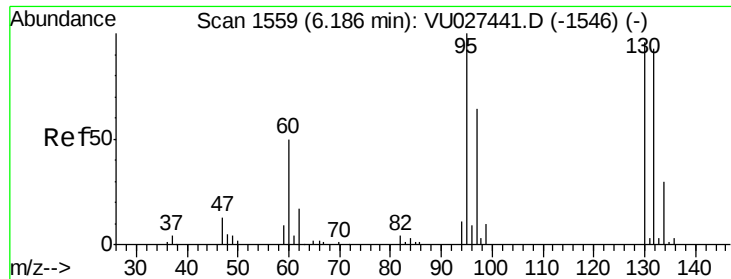
200000

0

Time-->

5.30 5.40 5.50





#34

Trichloroethene

Concen: 203.601 ug/L

RT: 6.19 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VU027443.D

Acq: 05 Oct 2018 10:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD20055

Tgt Ion: 95 Resp: 344693

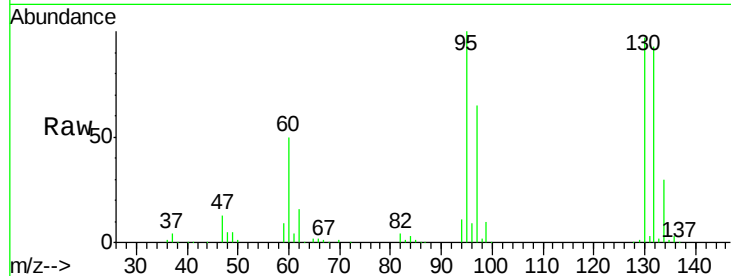
Ion Ratio Lower Upper

95 100

97 64.6 44.9 83.3

132 92.6 64.8 120.4

130 97.0 67.1 124.7

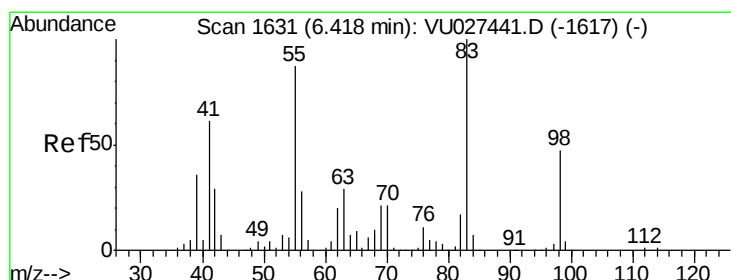
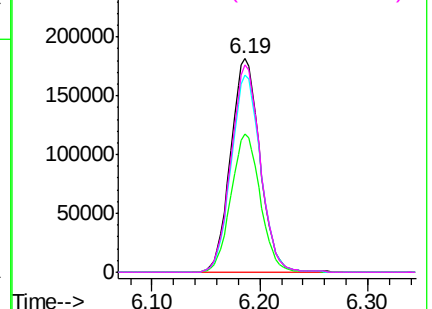
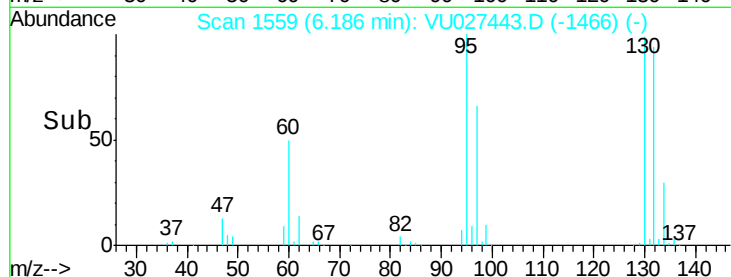


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 213.476 ug/L

RT: 6.42 min Scan# 1631

Delta R.T. -0.00 min

Lab File: VU027443.D

Acq: 05 Oct 2018 10:11

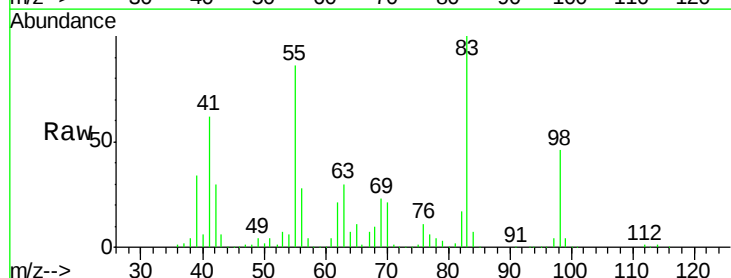
Tgt Ion: 83 Resp: 627952

Ion Ratio Lower Upper

83 100

55 86.3 69.9 104.9

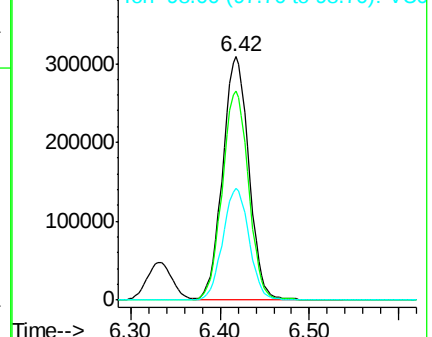
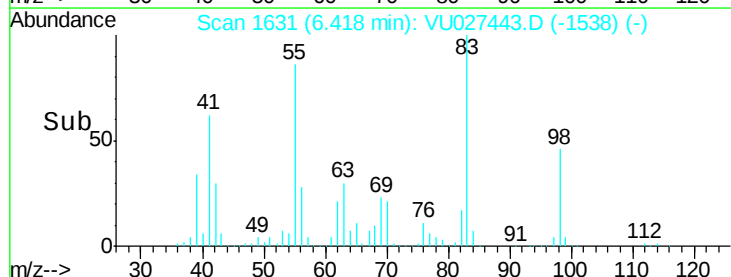
98 46.1 37.1 55.7

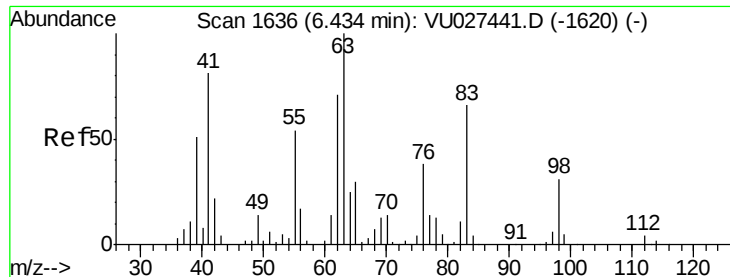


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

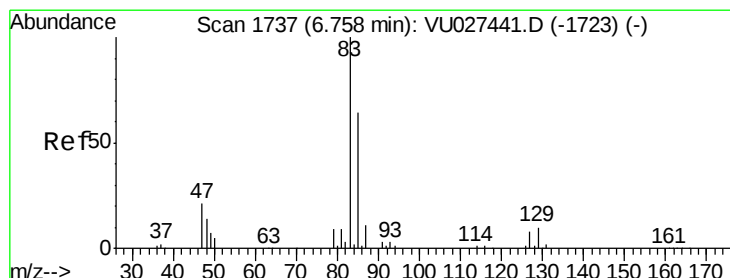
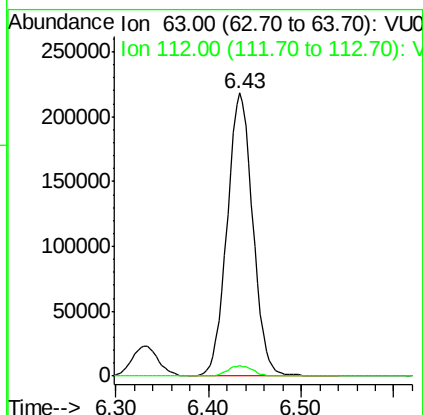
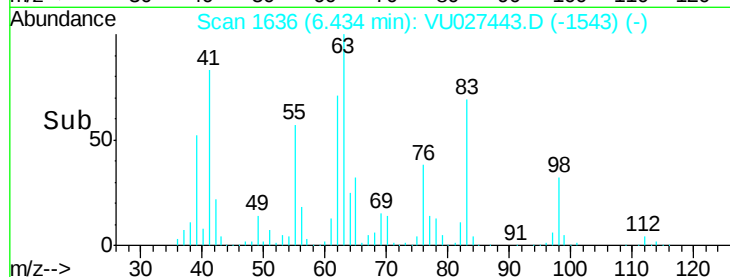
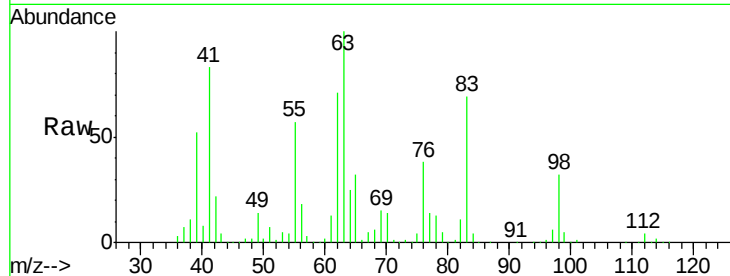




#37
 1,2-Dichloropropane
 Concen: 205.003 ug/L
 RT: 6.43 min Scan# 1636
 Delta R.T. -0.00 min
 Lab File: VU027443.D
 Acq: 05 Oct 2018 10:11

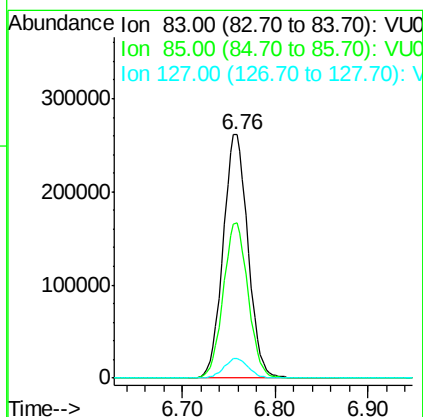
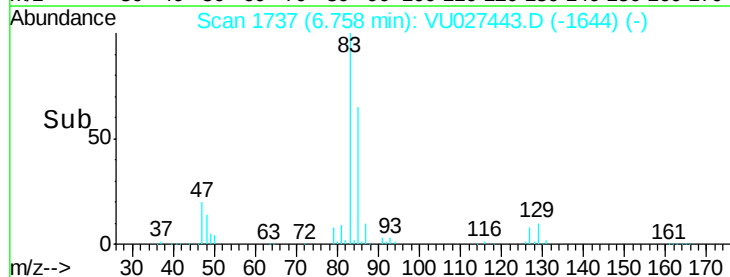
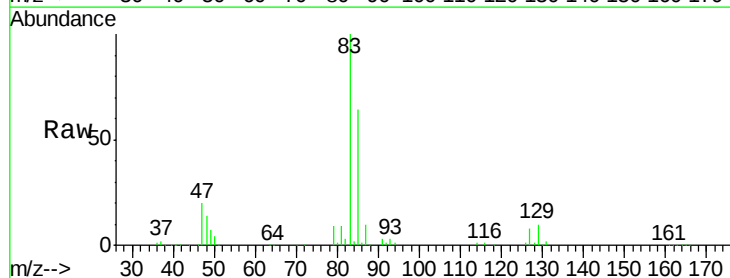
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20055

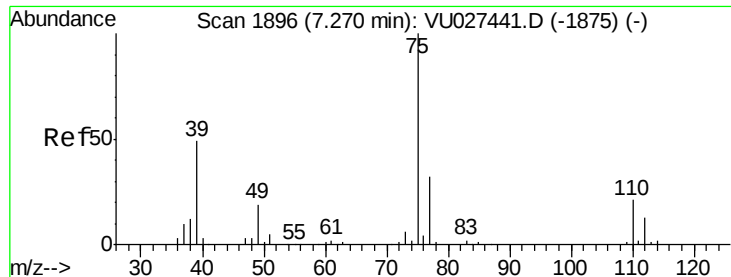
Tgt Ion: 63 Resp: 418112
 Ion Ratio Lower Upper
 63 100
 112 3.6 2.9 4.3



#38
 Bromodichloromethane
 Concen: 209.195 ug/L
 RT: 6.76 min Scan# 1737
 Delta R.T. -0.00 min
 Lab File: VU027443.D
 Acq: 05 Oct 2018 10:11

Tgt Ion: 83 Resp: 484841
 Ion Ratio Lower Upper
 83 100
 85 63.6 45.1 83.7
 127 8.1 6.3 9.5

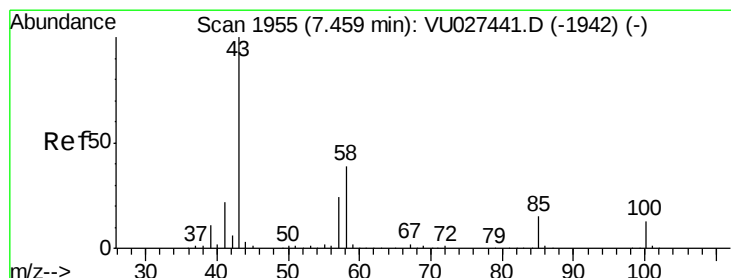
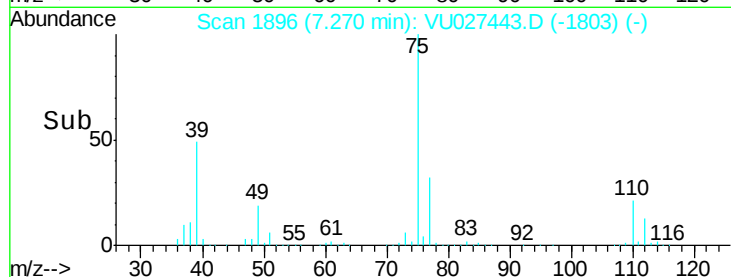
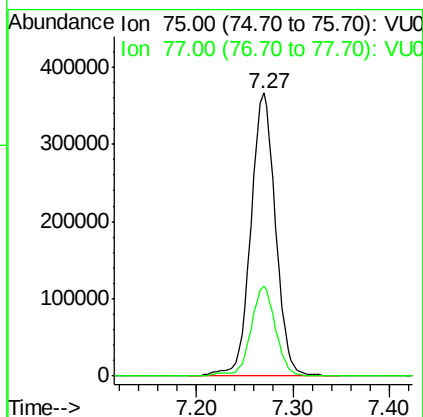
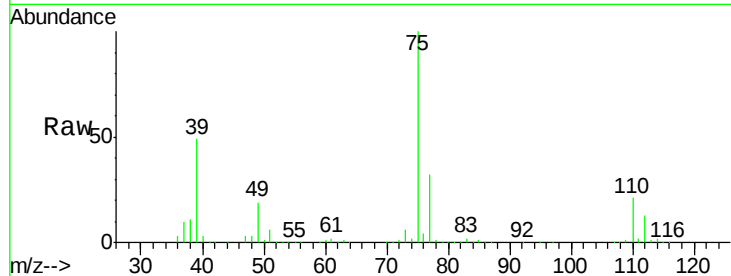




#39
 cis-1,3-Dichloropropene
 Concen: 216.512 ug/L
 RT: 7.27 min Scan# 1896
 Delta R.T. -0.00 min
 Lab File: VU027443.D
 Acq: 05 Oct 2018 10:11

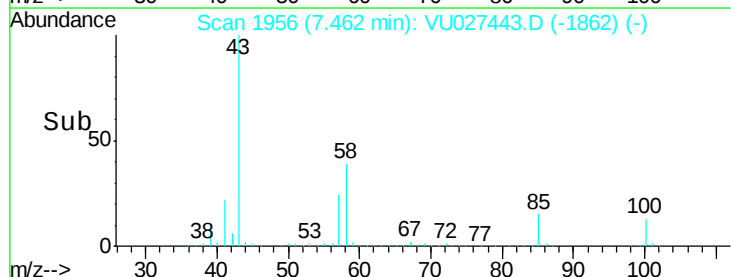
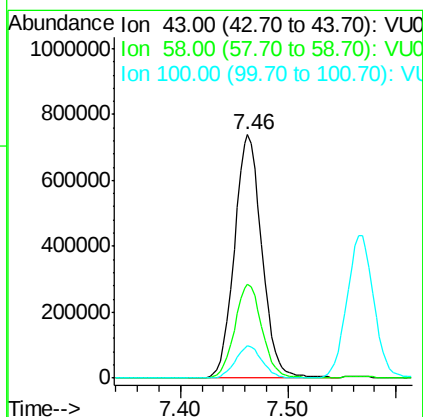
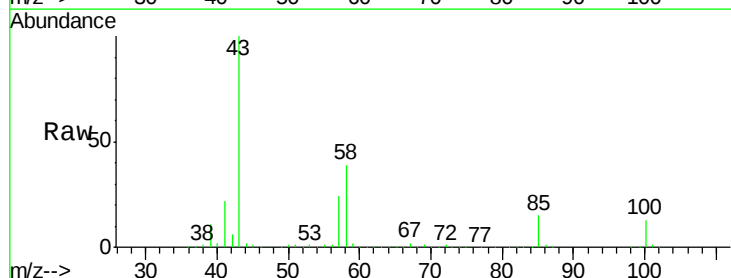
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20055

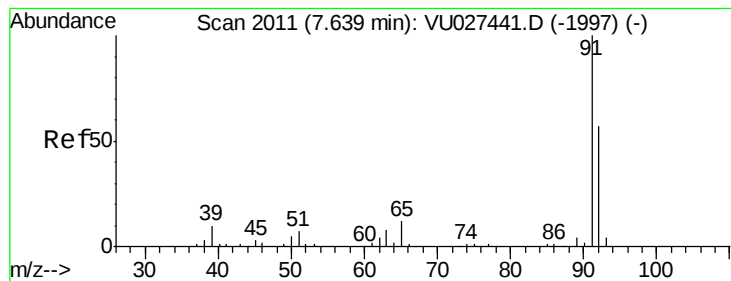
Tgt Ion: 75 Resp: 648863
 Ion Ratio Lower Upper
 75 100
 77 31.8 22.1 41.1



#40
 4-Methyl-2-pentanone
 Concen: 438.942 ug/L
 RT: 7.46 min Scan# 1956
 Delta R.T. 0.00 min
 Lab File: VU027443.D
 Acq: 05 Oct 2018 10:11

Tgt Ion: 43 Resp: 1310959
 Ion Ratio Lower Upper
 43 100
 58 38.5 30.7 46.1
 100 13.0 10.2 15.4





#42

Toluene

Concen: 207.835 ug/L

RT: 7.64 min Scan# 2011

Delta R.T. -0.00 min

Lab File: VU027443.D

Acq: 05 Oct 2018 10:11

Instrument :

MSVOA_U

ClientSampleId :

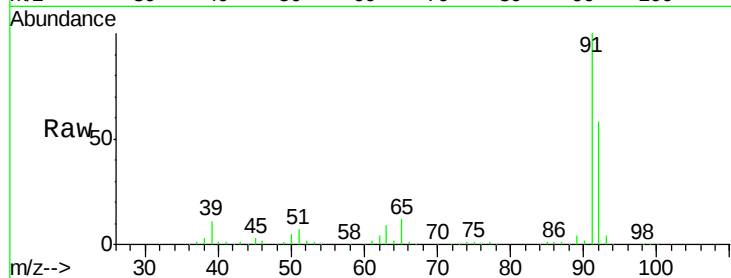
VSTD20055

Tgt Ion: 91 Resp: 1468006

Ion Ratio Lower Upper

91 100

92 57.9 40.2 74.6



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0

1000000

800000

600000

400000

200000

0

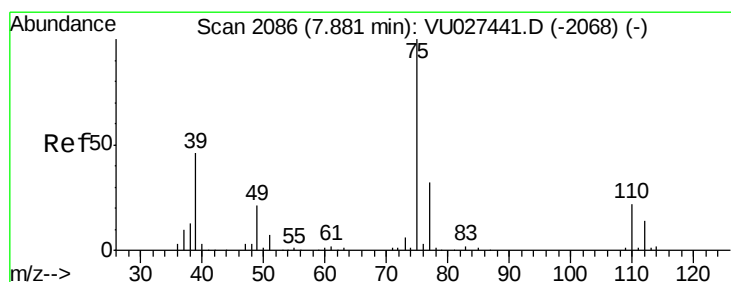
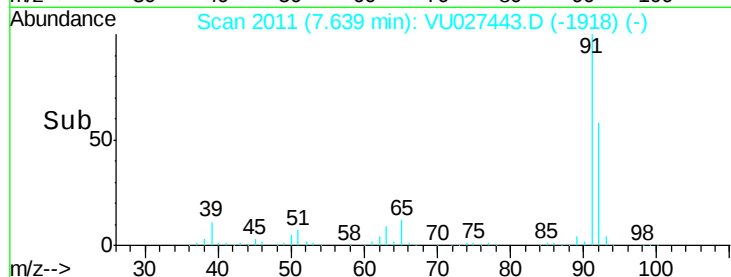
7.50

7.60

7.70

7.80

Time-->



#44

trans-1,3-Dichloropropene

Concen: 216.535 ug/L

RT: 7.88 min Scan# 2086

Delta R.T. -0.00 min

Lab File: VU027443.D

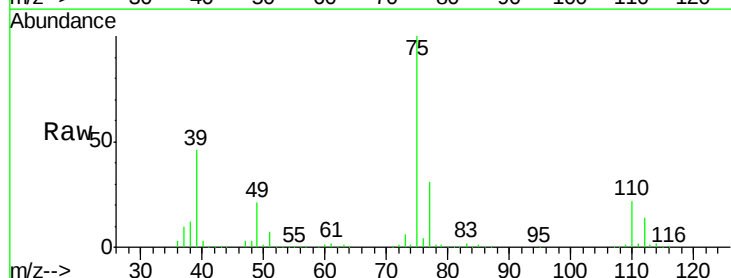
Acq: 05 Oct 2018 10:11

Tgt Ion: 75 Resp: 602353

Ion Ratio Lower Upper

75 100

77 31.5 22.2 41.2



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

400000

300000

200000

100000

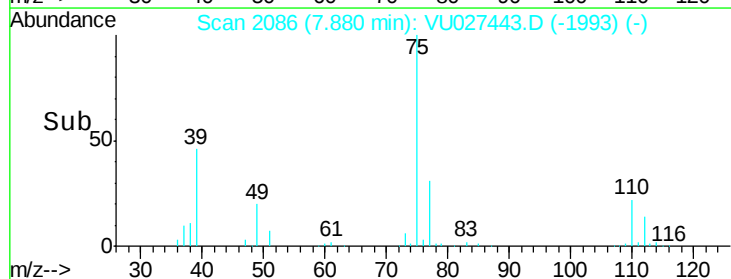
0

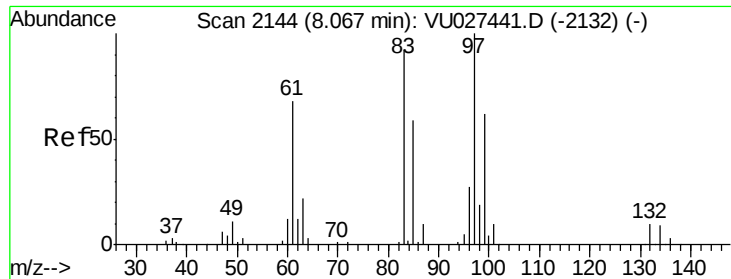
7.80

7.90

8.00

Time-->

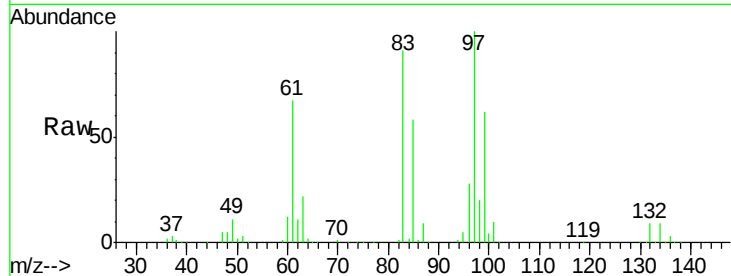




#45
 1,1,2-Trichloroethane
 Concen: 205.184 ug/L
 RT: 8.07 min Scan# 2144
 Delta R.T. -0.00 min
 Lab File: VU027443.D
 Acq: 05 Oct 2018 10:11

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20055

Tgt Ion:	97	Resp:	335934
Ion	Ratio	Lower	Upper
97	100		
99	62.2	43.2	80.2
83	90.5	64.3	119.5
85	57.8	41.0	76.2



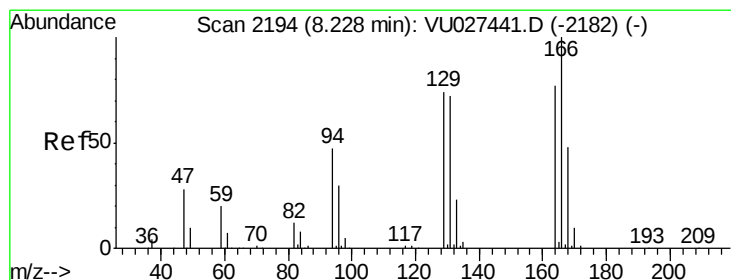
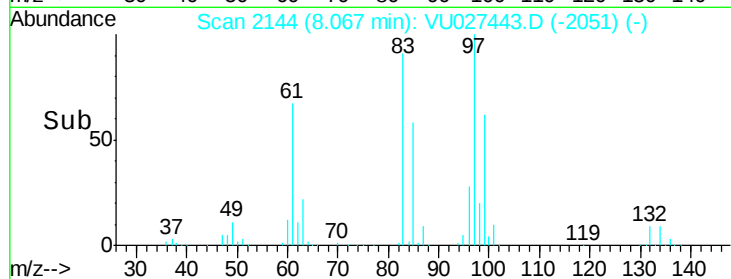
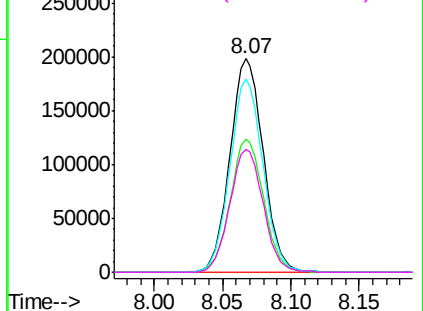
Abundance

Ion 97.00 (96.70 to 97.70): VU027443.D (-2132) (-)

Ion 99.00 (98.70 to 99.70): VU027443.D (-2132) (-)

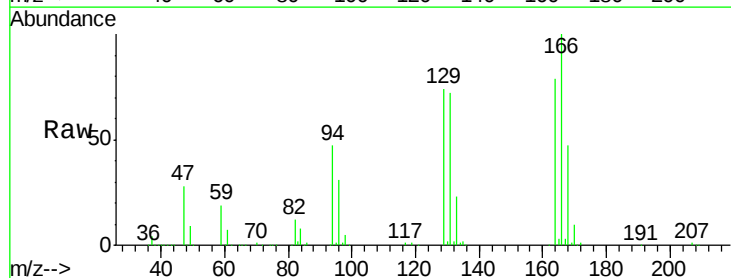
Ion 83.00 (82.70 to 83.70): VU027443.D (-2132) (-)

Ion 85.00 (84.70 to 85.70): VU027443.D (-2132) (-)



#46
 Tetrachloroethene
 Concen: 206.607 ug/L
 RT: 8.23 min Scan# 2194
 Delta R.T. -0.00 min
 Lab File: VU027443.D
 Acq: 05 Oct 2018 10:11

Tgt Ion:	164	Resp:	259956
Ion	Ratio	Lower	Upper
164	100		
129	93.2	67.0	124.4
131	90.7	65.1	120.9
166	126.6	90.4	167.8



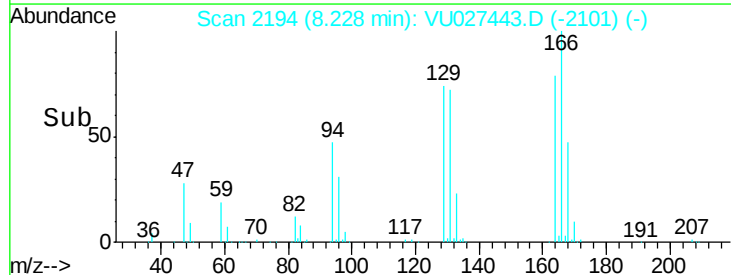
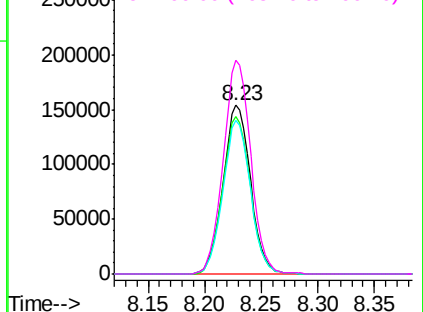
Abundance

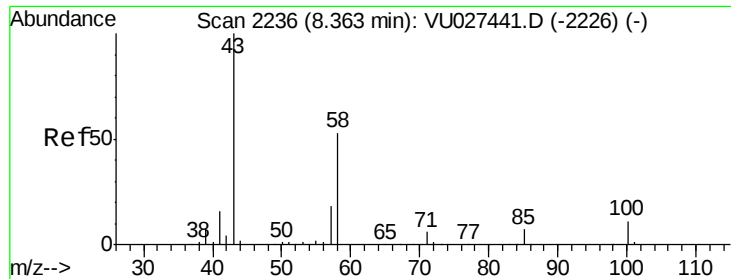
Ion 164.00 (163.70 to 164.70): VU027443.D (-2182) (-)

Ion 129.00 (128.70 to 129.70): VU027443.D (-2182) (-)

Ion 131.00 (130.70 to 131.70): VU027443.D (-2182) (-)

Ion 166.00 (165.70 to 166.70): VU027443.D (-2182) (-)



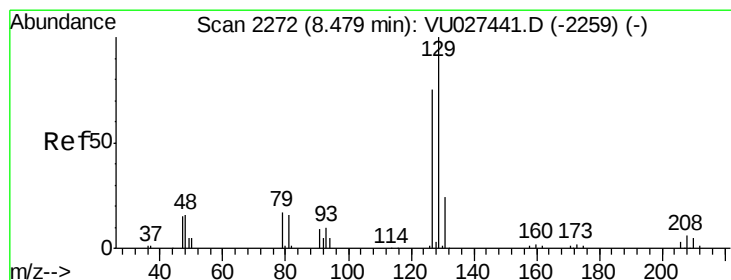
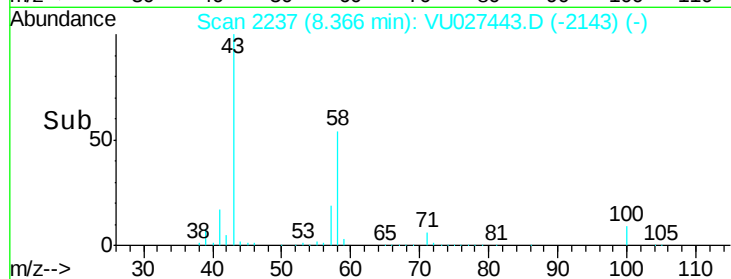
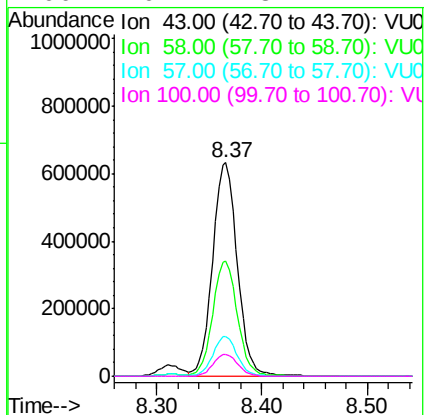
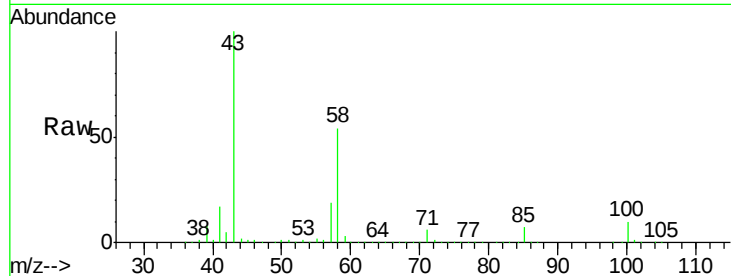


#48
2-Hexanone
Concen: 436.206 ug/L
RT: 8.37 min Scan# 2237
Delta R.T. 0.00 min
Lab File: VU027443.D
Acq: 05 Oct 2018 10:11

Instrument :
MSVOA_U
ClientSampleId :
VSTD20055

Tgt Ion: 43 Resp: 1028709

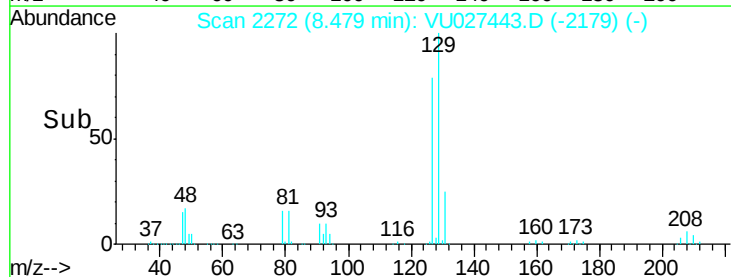
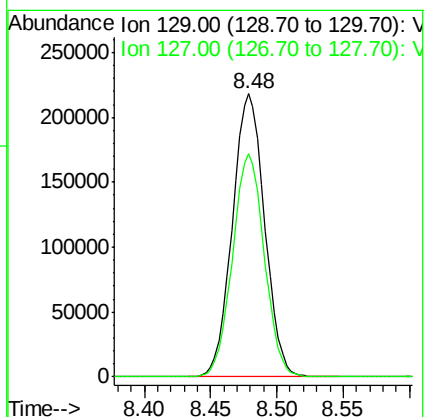
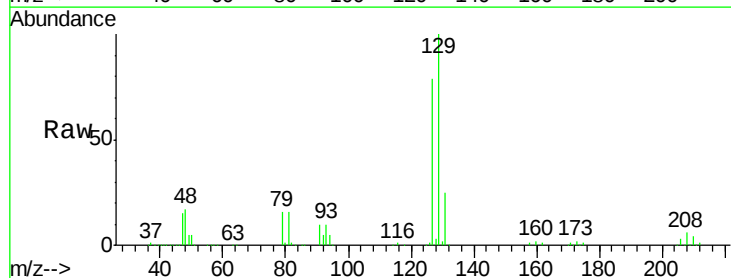
Ion	Ratio	Lower	Upper
43	100		
58	53.9	42.7	64.1
57	18.3	14.5	21.7
100	10.2	8.2	12.2

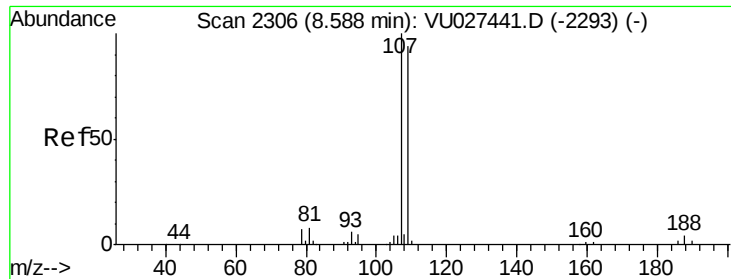


#49
Dibromochloromethane
Concen: 215.368 ug/L
RT: 8.48 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VU027443.D
Acq: 05 Oct 2018 10:11

Tgt Ion: 129 Resp: 367671

Ion	Ratio	Lower	Upper
129	100		
127	78.9	52.7	97.9

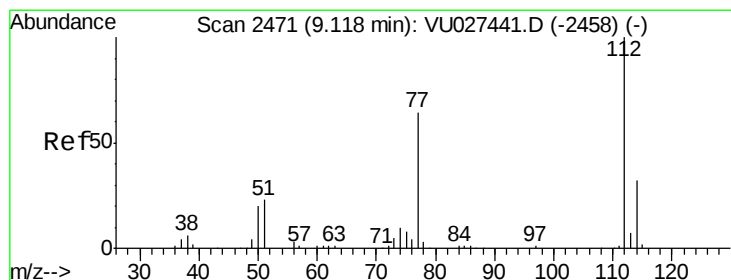
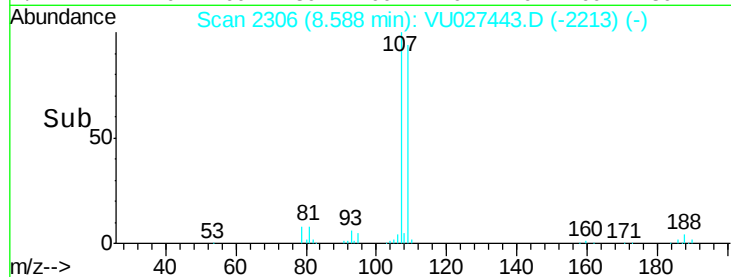
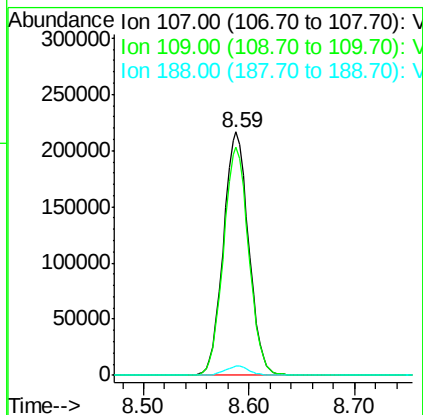
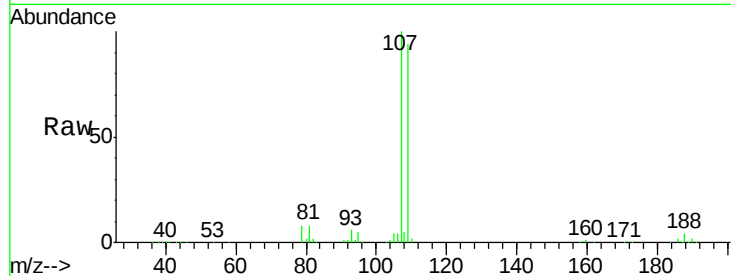




#50
 1,2-Dibromoethane
 Concen: 206.028 ug/L
 RT: 8.59 min Scan# 2306
 Delta R.T. -0.00 min
 Lab File: VU027443.D
 Acq: 05 Oct 2018 10:11

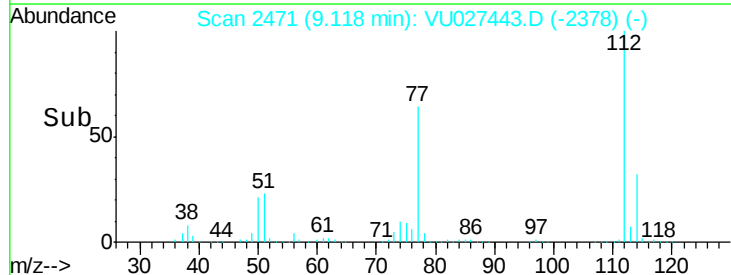
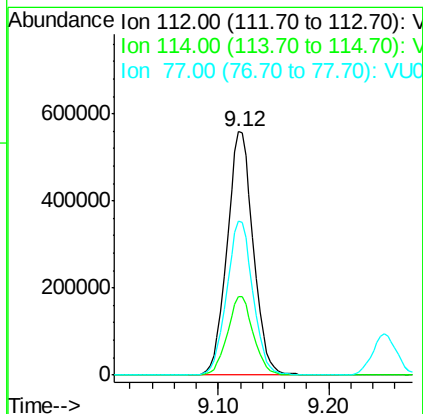
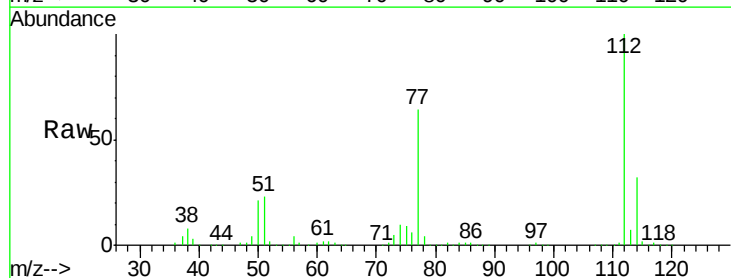
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20055

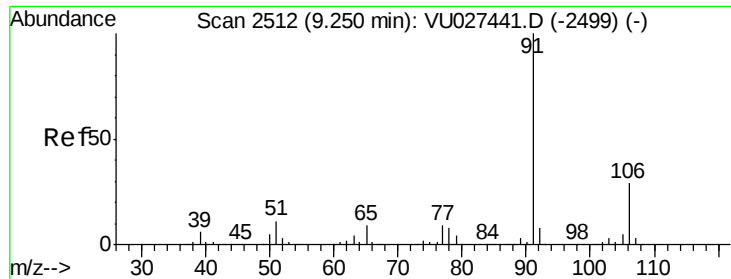
Tgt Ion:107 Resp: 357863
 Ion Ratio Lower Upper
 107 100
 109 94.0 65.5 121.6
 188 3.7 3.0 4.6



#51
 Chlorobenzene
 Concen: 205.316 ug/L
 RT: 9.12 min Scan# 2471
 Delta R.T. -0.00 min
 Lab File: VU027443.D
 Acq: 05 Oct 2018 10:11

Tgt Ion:112 Resp: 916843
 Ion Ratio Lower Upper
 112 100
 114 32.1 22.3 41.5
 77 63.5 51.7 77.5





#52

Ethylbenzene

Concen: 212.438 ug/L

RT: 9.25 min Scan# 2512

Delta R.T. -0.00 min

Lab File: VU027443.D

Acq: 05 Oct 2018 10:11

Instrument :

MSVOA_U

ClientSampleId :

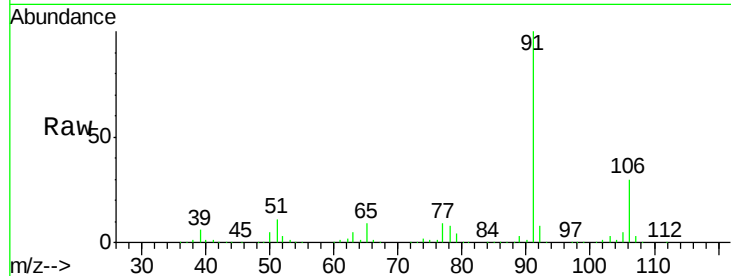
VSTD20055

Tgt Ion: 91 Resp: 1666097

Ion Ratio Lower Upper

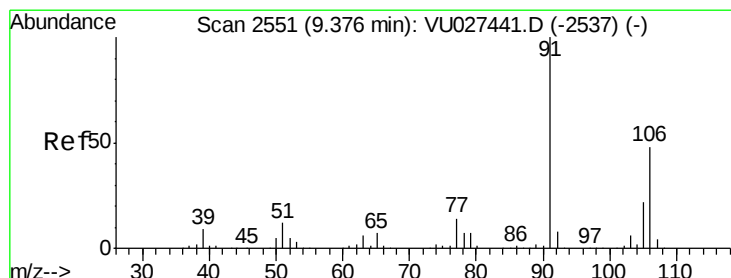
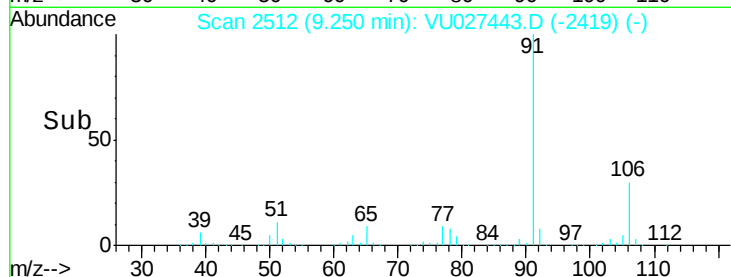
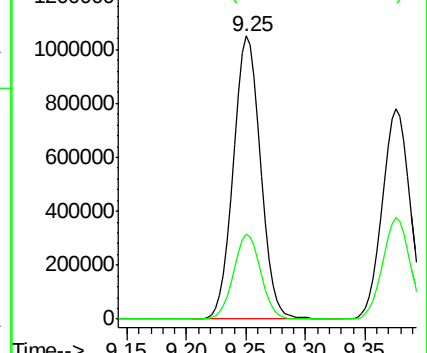
91 100

106 29.9 20.6 38.4



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V



#53

m,p-Xylene

Concen: 211.607 ug/L

RT: 9.38 min Scan# 2551

Delta R.T. -0.00 min

Lab File: VU027443.D

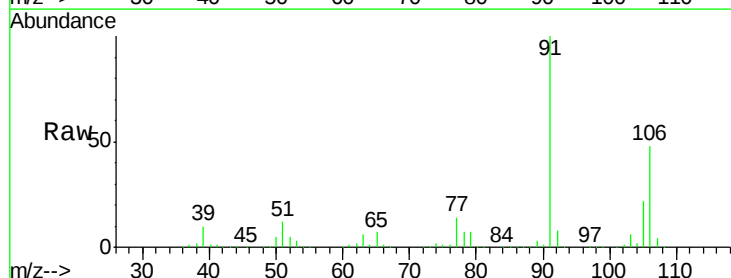
Acq: 05 Oct 2018 10:11

Tgt Ion: 106 Resp: 607429

Ion Ratio Lower Upper

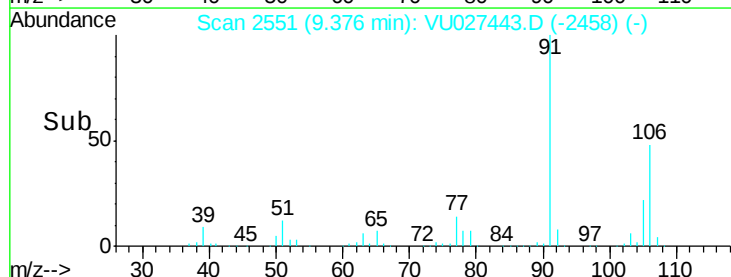
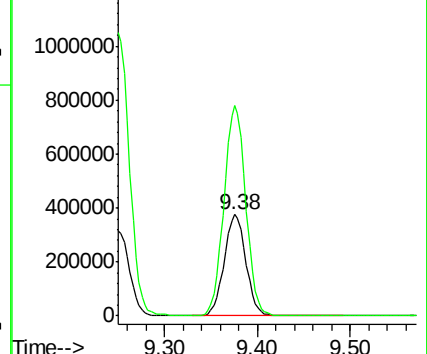
106 100

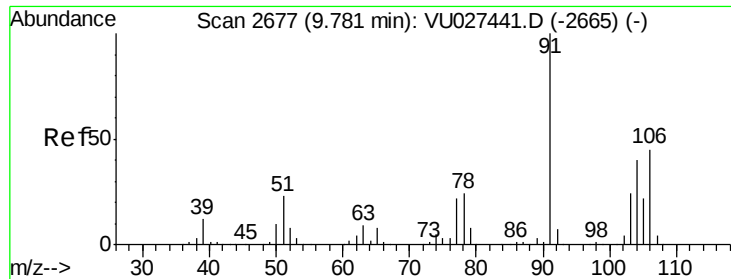
91 208.6 145.0 269.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#54

o-xylene

Concen: 216.865 ug/L

RT: 9.78 min Scan# 2677

Delta R.T. -0.00 min

Lab File: VU027443.D

Acq: 05 Oct 2018 10:11

Instrument :

MSVOA_U

ClientSampleId :

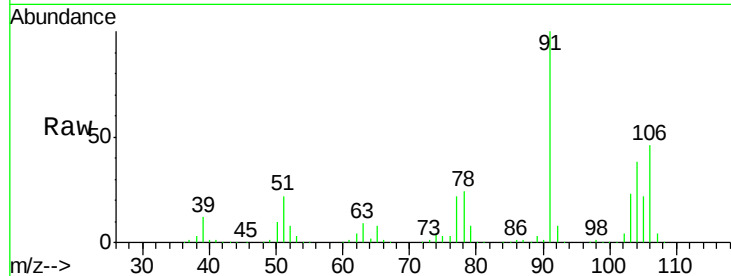
VSTD20055

Tgt Ion:106 Resp: 599719

Ion Ratio Lower Upper

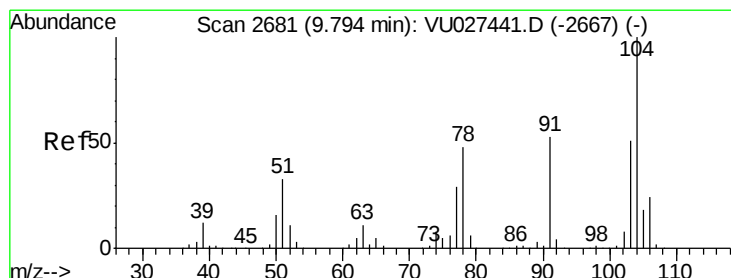
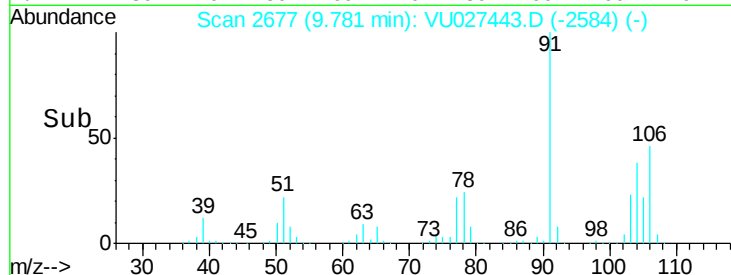
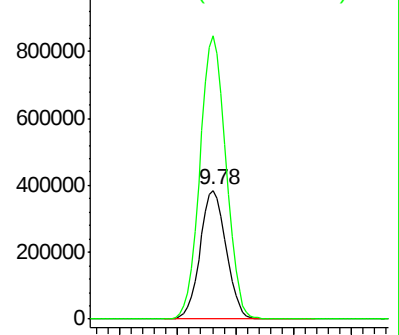
106 100

91 219.3 154.8 287.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 223.157 ug/L

RT: 9.79 min Scan# 2681

Delta R.T. -0.00 min

Lab File: VU027443.D

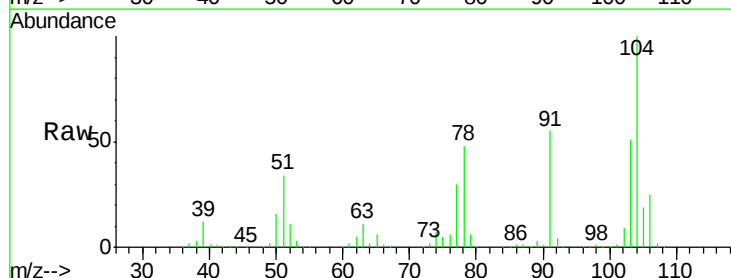
Acq: 05 Oct 2018 10:11

Tgt Ion:104 Resp: 1056772

Ion Ratio Lower Upper

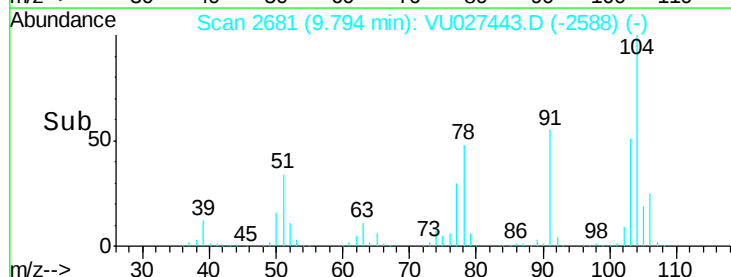
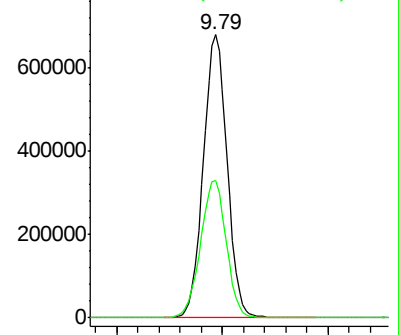
104 100

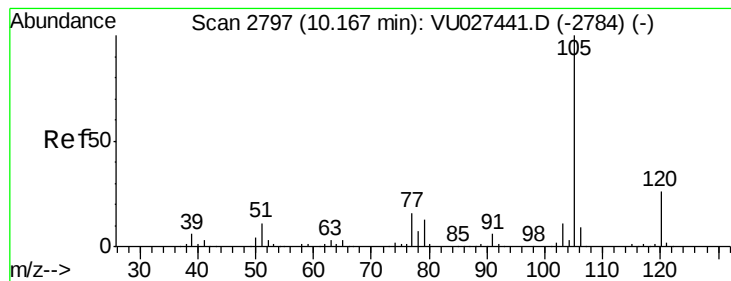
78 48.4 33.6 62.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 219.780 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. -0.00 min

Lab File: VU027443.D

Acq: 05 Oct 2018 10:11

Instrument :

MSVOA_U

ClientSampled :

VSTD20055

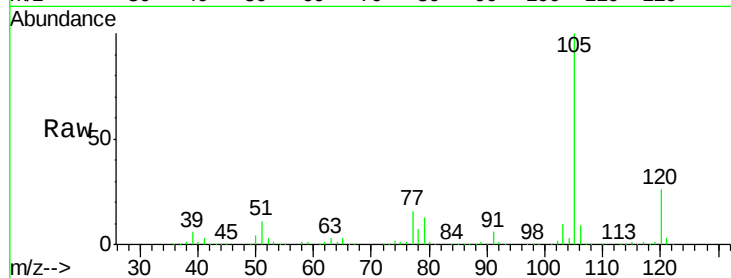
Tgt Ion:105 Resp: 1592781

Ion Ratio Lower Upper

105 100

120 25.7 20.6 30.8

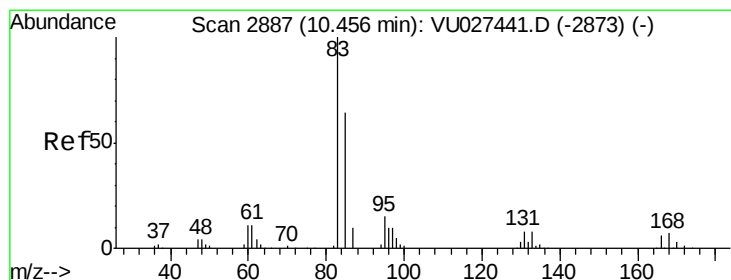
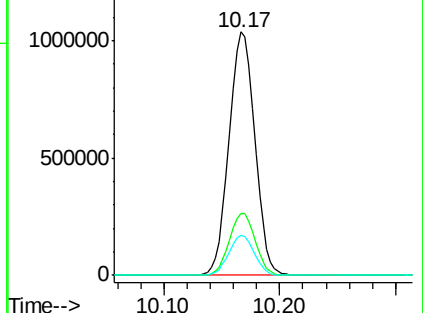
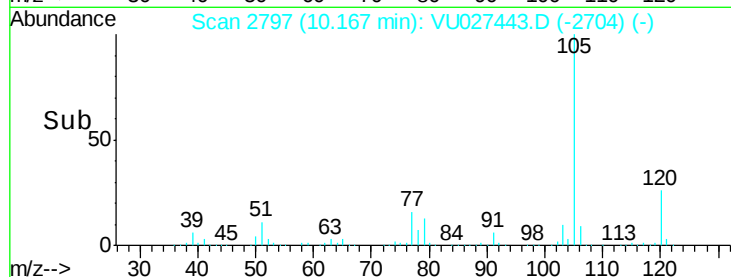
77 16.4 13.0 19.4



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: 214.211 ug/L

RT: 10.46 min Scan# 2888

Delta R.T. 0.00 min

Lab File: VU027443.D

Acq: 05 Oct 2018 10:11

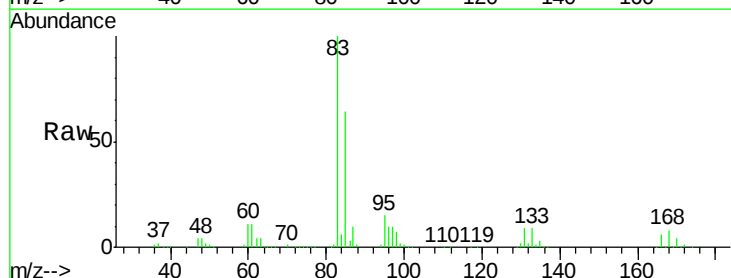
Tgt Ion: 83 Resp: 614489

Ion Ratio Lower Upper

83 100

85 64.0 45.2 84.0

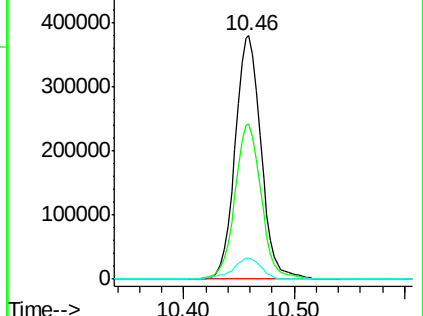
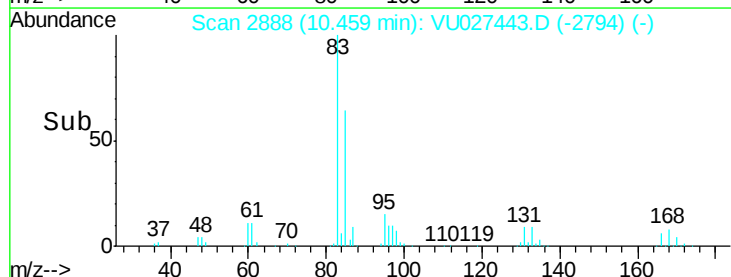
131 8.7 6.7 10.1

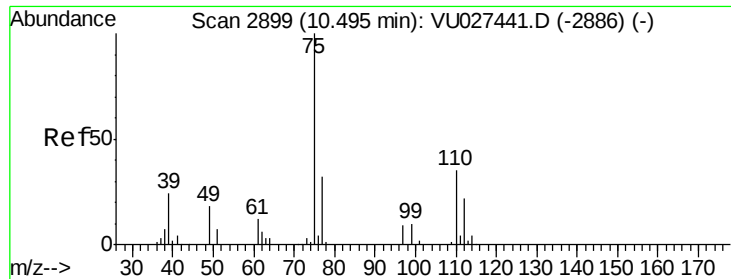


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 212.283 ug/L

RT: 10.49 min Scan# 2899

Delta R.T. -0.00 min

Lab File: VU027443.D

Acq: 05 Oct 2018 10:11

Instrument :

MSVOA_U

ClientSampleId :

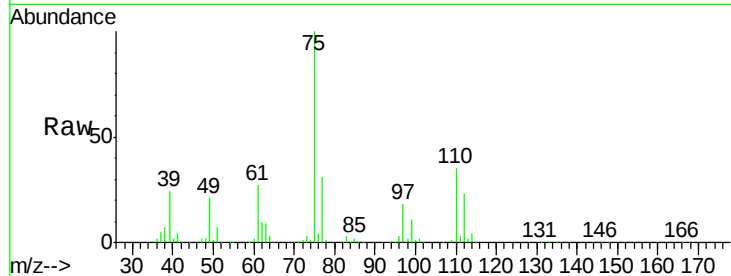
VSTD20055

Tgt Ion: 75 Resp: 490178

Ion Ratio Lower Upper

75 100

77 31.7 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU027441.D (-2886) (-)

Ion 77.00 (76.70 to 77.70): VU027441.D (-2886) (-)

10.49

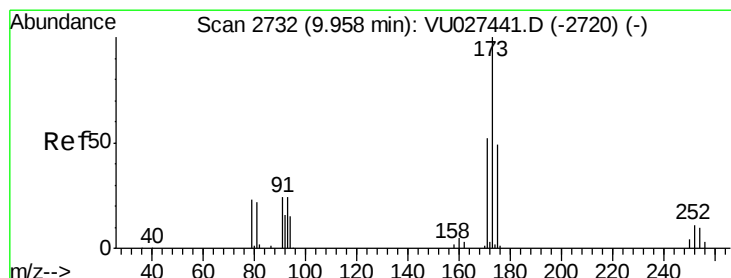
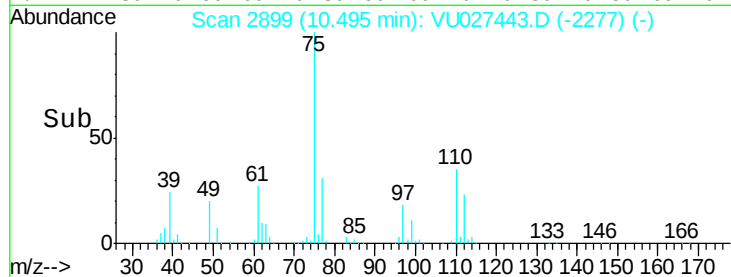
300000

200000

100000

0

Time--> 10.40 10.50 10.60



#61

Bromoform

Concen: 213.334 ug/L

RT: 9.96 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VU027443.D

Acq: 05 Oct 2018 10:11

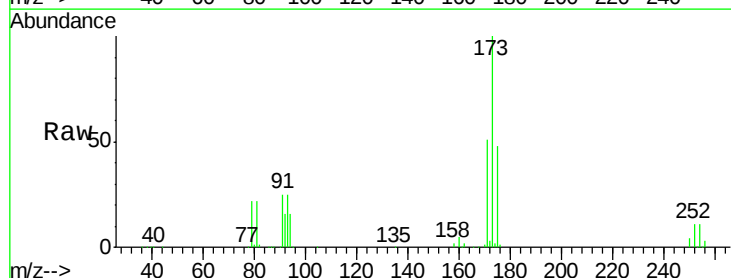
Tgt Ion: 173 Resp: 275624

Ion Ratio Lower Upper

173 100

175 48.2 39.0 58.4

254 11.0 8.3 12.5



Abundance Ion 173.00 (172.70 to 173.70): VU027441.D (-2720) (-)

Ion 175.00 (174.70 to 175.70): VU027441.D (-2720) (-)

Ion 254.00 (253.70 to 254.70): VU027441.D (-2720) (-)

9.96

200000

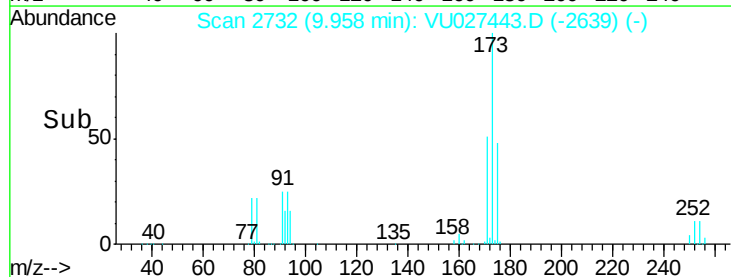
150000

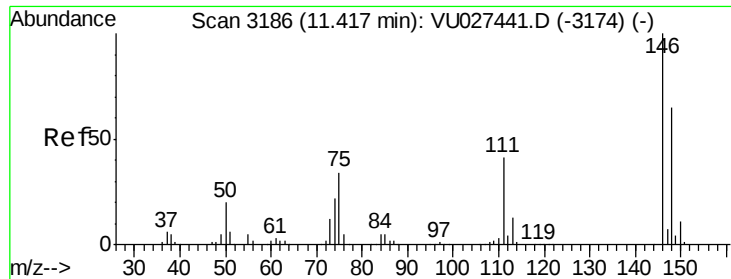
100000

50000

0

Time--> 9.90 10.00





#62

1,3-Dichlorobenzene

Concen: 207.014 ug/L

RT: 11.42 min Scan# 3186

Delta R.T. -0.00 min

Lab File: VU027443.D

Acq: 05 Oct 2018 10:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD20055

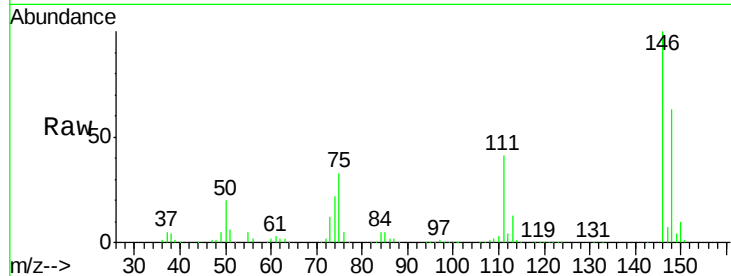
Tgt Ion:146 Resp: 732594

Ion Ratio Lower Upper

146 100

111 41.1 29.0 53.8

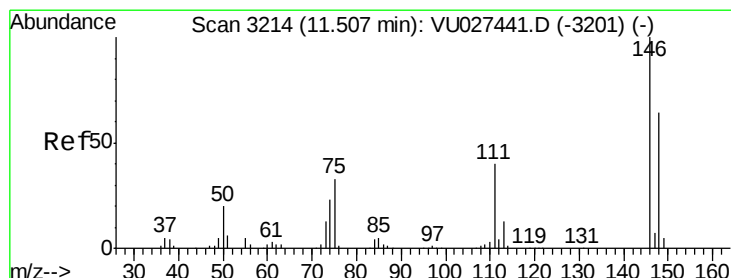
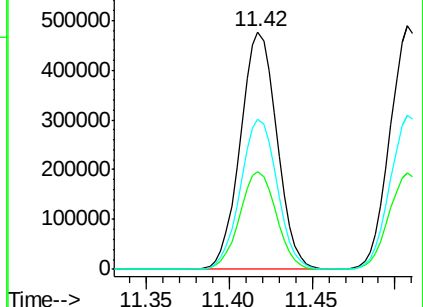
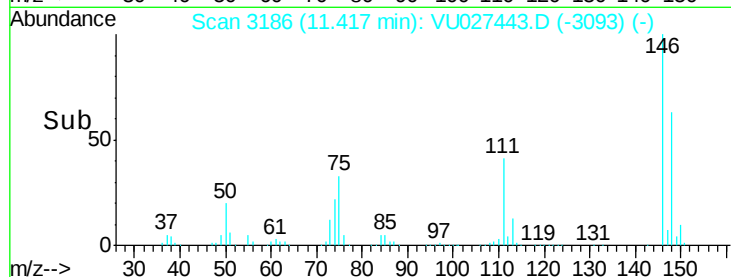
148 63.4 45.4 84.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 201.264 ug/L

RT: 11.51 min Scan# 3214

Delta R.T. -0.00 min

Lab File: VU027443.D

Acq: 05 Oct 2018 10:11

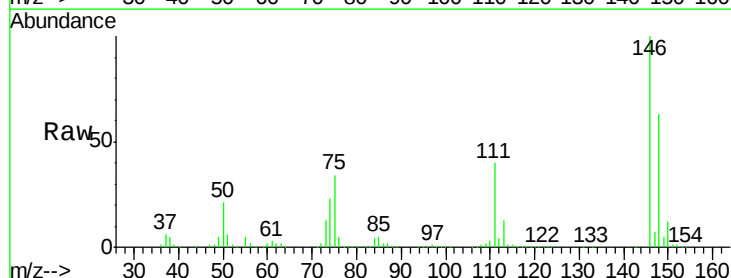
Tgt Ion:146 Resp: 742941

Ion Ratio Lower Upper

146 100

111 39.5 28.1 52.1

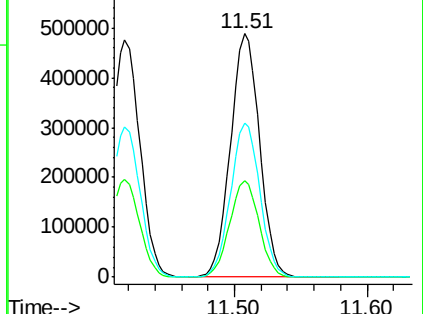
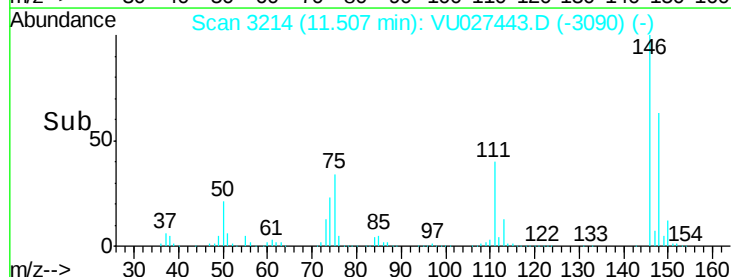
148 63.4 44.4 82.5

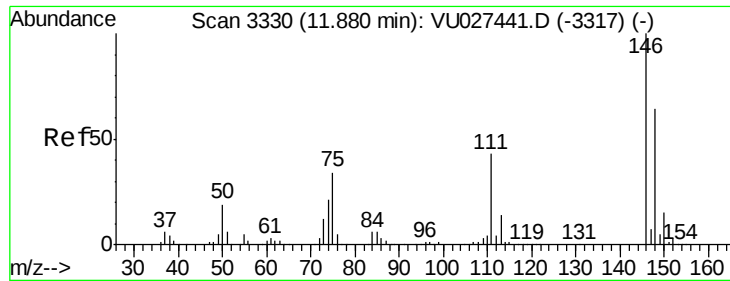


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 200.924 ug/L

RT: 11.88 min Scan# 3330

Delta R.T. -0.00 min

Lab File: VU027443.D

Acq: 05 Oct 2018 10:11

Instrument :

MSVOA_U

ClientSampled :

VSTD20055

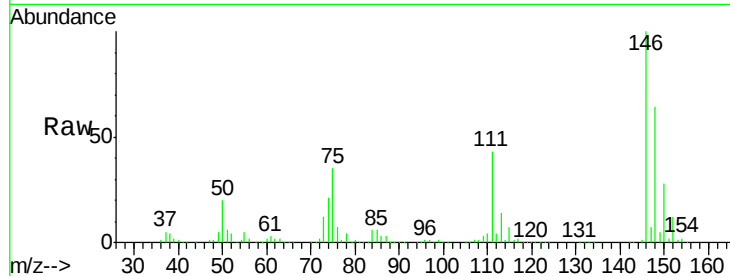
Tgt Ion:146 Resp: 723832

Ion Ratio Lower Upper

146 100

111 43.3 34.9 52.3

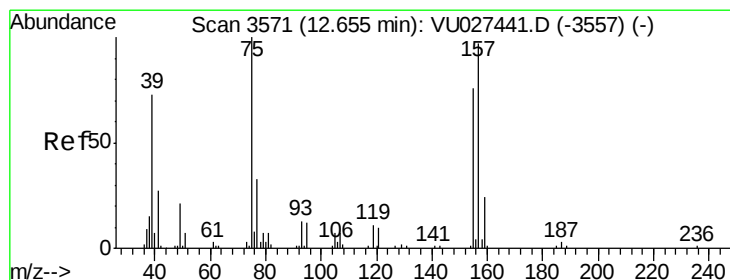
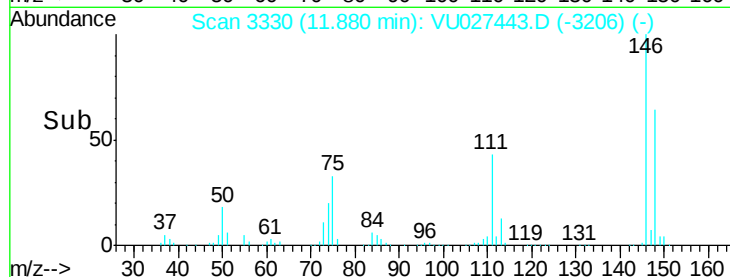
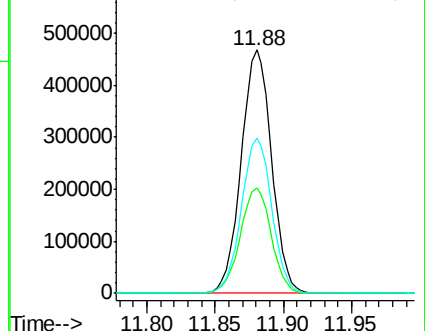
148 63.7 51.6 77.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 214.025 ug/L

RT: 12.66 min Scan# 3571

Delta R.T. -0.00 min

Lab File: VU027443.D

Acq: 05 Oct 2018 10:11

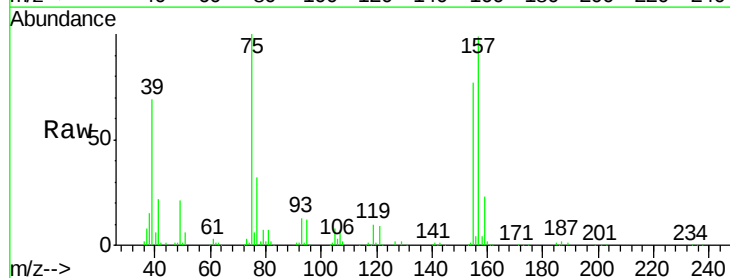
Tgt Ion: 75 Resp: 142931

Ion Ratio Lower Upper

75 100

155 77.5 61.0 91.6

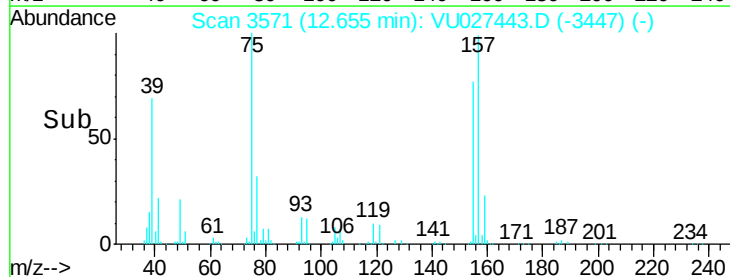
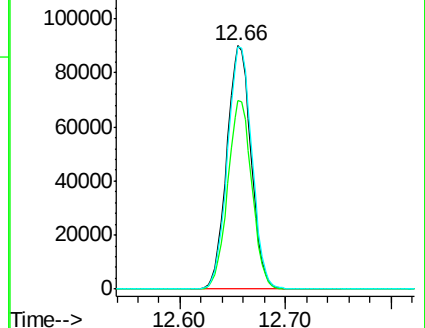
157 99.4 77.8 116.8

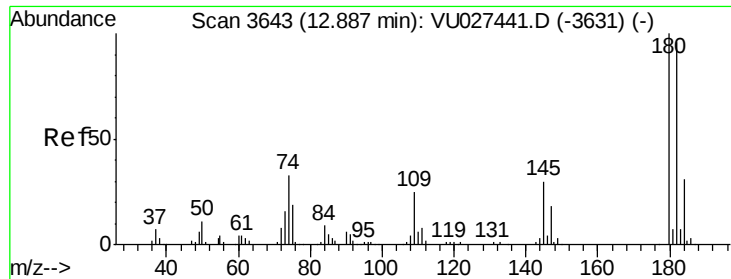


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

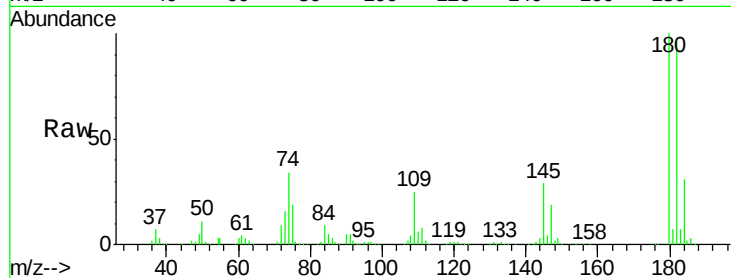




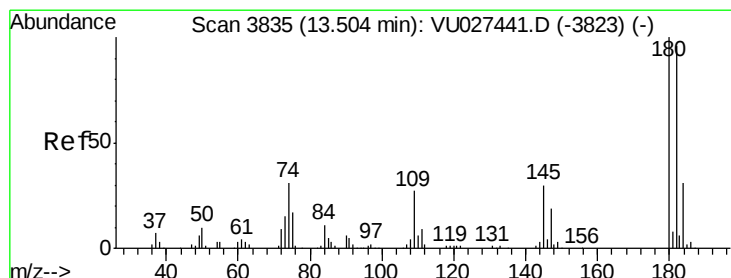
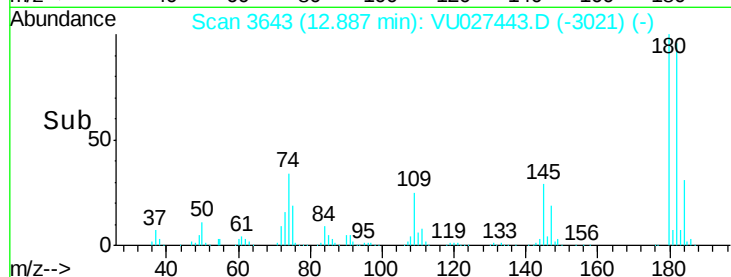
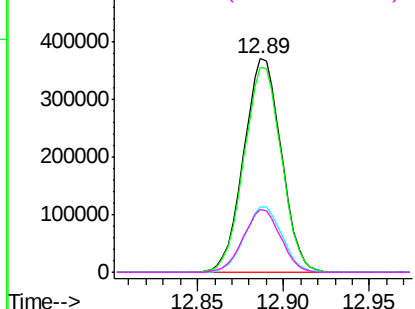
#67
 1,3,5-Trichlorobenzene
 Concen: 206.043 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. -0.00 min
 Lab File: VU027443.D
 Acq: 05 Oct 2018 10:11

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20055

Tgt Ion:180 Resp: 563358
 Ion Ratio Lower Upper
 180 100
 182 95.8 76.7 115.1
 184 30.6 24.5 36.7
 145 29.2 23.8 35.8

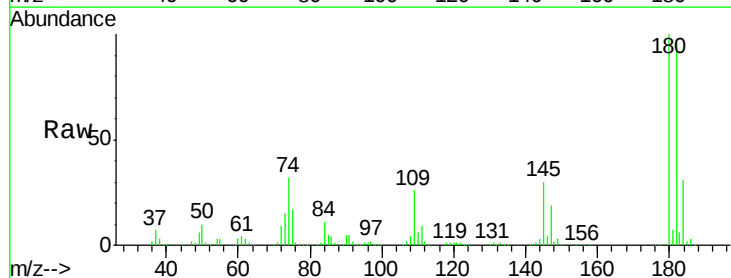


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

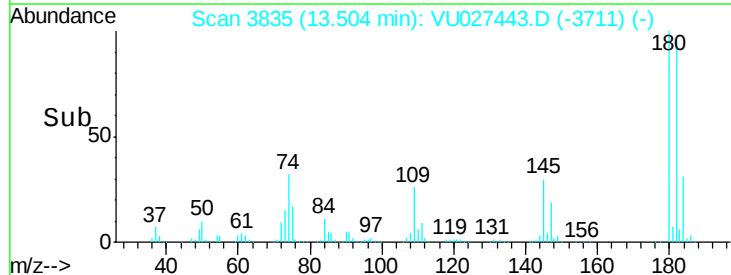
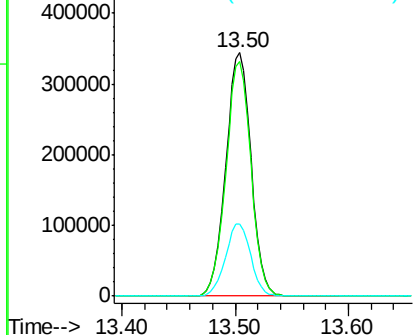


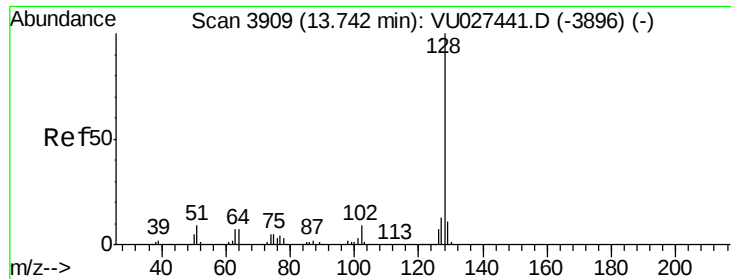
#68
 1,2,4-trichlorobenzene
 Concen: 212.037 ug/L
 RT: 13.50 min Scan# 3835
 Delta R.T. -0.00 min
 Lab File: VU027443.D
 Acq: 05 Oct 2018 10:11

Tgt Ion:180 Resp: 533143
 Ion Ratio Lower Upper
 180 100
 182 95.7 76.3 114.5
 145 29.7 24.2 36.2



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: 224.802 ug/L

RT: 13.74 min Scan# 3909

Delta R.T. -0.00 min

Lab File: VU027443.D

Acq: 05 Oct 2018 10:11

Instrument :

MSVOA_U

ClientSampleId :

VSTD20055

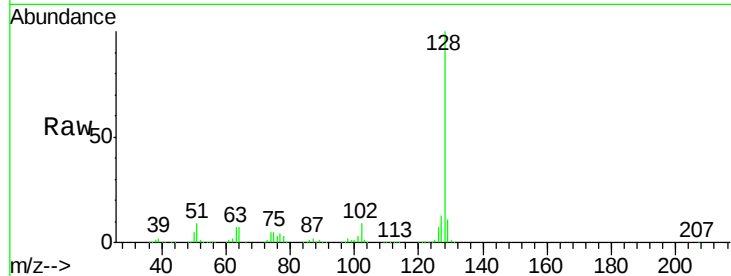
Tgt Ion:128 Resp: 1742920

Ion Ratio Lower Upper

128 100

127 13.1 10.4 15.6

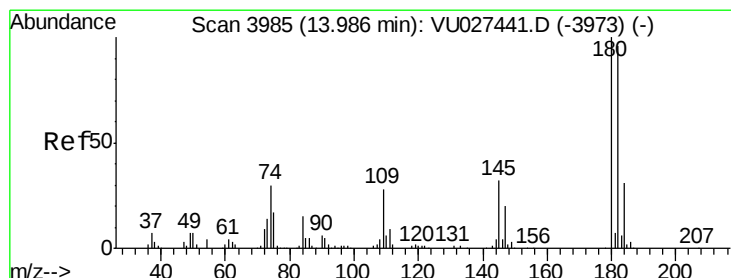
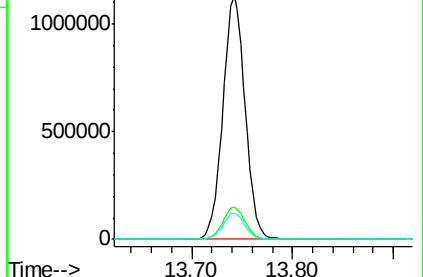
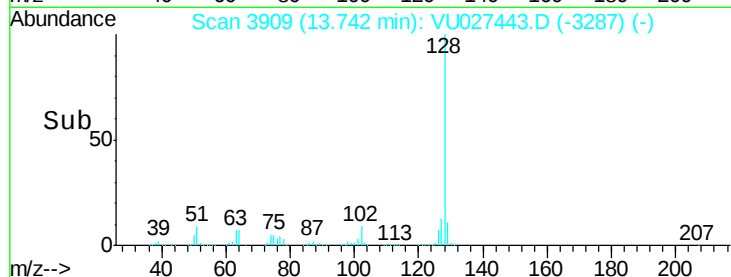
129 10.9 8.6 12.8



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: 205.818 ug/L

RT: 13.99 min Scan# 3985

Delta R.T. -0.00 min

Lab File: VU027443.D

Acq: 05 Oct 2018 10:11

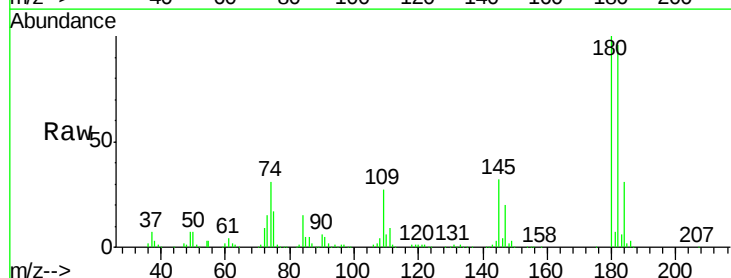
Tgt Ion:180 Resp: 526260

Ion Ratio Lower Upper

180 100

182 95.9 77.4 116.0

145 31.4 25.5 38.3



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

