

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU031119\
 Data File : VU029915.D
 Acq On : 09 Mar 2019 12:51
 Operator : JC/SP
 Sample : VSTD20046
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20046

Quant Time: Mar 11 01:59:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031119WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Mar 11 01:54:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	518261	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	533825	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	304336	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	660436	179.23	ug/L	0.00
7) Chloroethane-d5	1.66	69	539915	166.27	ug/L	-0.02
11) 1,1-Dichloroethene-d2	2.27	63	1245643	176.22	ug/L	0.00
21) 2-Butanone-d5	4.17	46	1086305	463.54	ug/L	0.00
24) Chloroform-d	4.64	84	1286376	208.94	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	737649	191.09	ug/L	0.00
32) Benzene-d6	5.34	84	2691496	200.33	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.32	67	818063	202.76	ug/L	0.00
41) Toluene-d8	7.56	98	2630488	193.38	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	417519	198.51	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	1011317	451.44	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	1376415	203.81	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	1186249	184.53	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	831825	225.766	ug/L	100
3) Chloromethane	1.32	50	1041645	292.056	ug/L	99
5) Vinyl chloride	1.40	62	864694	204.269	ug/L	99
6) Bromomethane	1.60	94	211048	117.069	ug/L	99
8) Chloroethane	1.68	64	502677	180.510	ug/L	100
9) Trichlorofluoromethane	1.88	101	1099561	168.197	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	693239	195.976	ug/L	99
12) 1,1-Dichloroethene	2.28	96	678365	201.013	ug/L	92
13) Acetone	2.32	43	982457	385.863	ug/L	99
14) Carbon disulfide	2.47	76	2118023	228.138	ug/L	99
15) Methyl Acetate	2.61	43	784581	234.142	ug/L	98
16) Methylene chloride	2.69	84	792204	230.508	ug/L	100
17) trans-1,2-Dichloroethene	2.98	96	725685	223.497	ug/L	99
18) Methyl tert-butyl Ether	3.00	73	1931756	201.286	ug/L	99
19) 1,1-Dichloroethane	3.44	63	1234842	219.417	ug/L	100
20) cis-1,2-Dichloroethene	4.22	96	825849	219.317	ug/L	98
22) 2-Butanone	4.26	43	1298720	445.384	ug/L	99
23) Bromochloromethane	4.54	128	397329	197.077	ug/L	99
25) Chloroform	4.67	83	1284355	206.731	ug/L	98
27) 1,2-Dichloroethane	5.40	62	932118	198.299	ug/L	99
29) Cyclohexane	4.99	56	1162846	215.609	ug/L	100
30) 1,1,1-Trichloroethane	4.91	97	1106486	194.654	ug/L	100
31) Carbon tetrachloride	5.13	117	972485	190.344	ug/L	100
33) Benzene	5.39	78	2935139	210.437	ug/L	100
34) Trichloroethene	6.18	95	779453	209.207	ug/L	99
35) Methylcyclohexane	6.41	83	1282871	206.660	ug/L	99
37) 1,2-Dichloropropane	6.43	63	758356	208.297	ug/L	100
38) Bromodichloromethane	6.75	83	986411	202.861	ug/L	100
39) cis-1,3-Dichloropropene	7.26	75	1223079	211.302	ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	2168854	427.340	ug/L	99

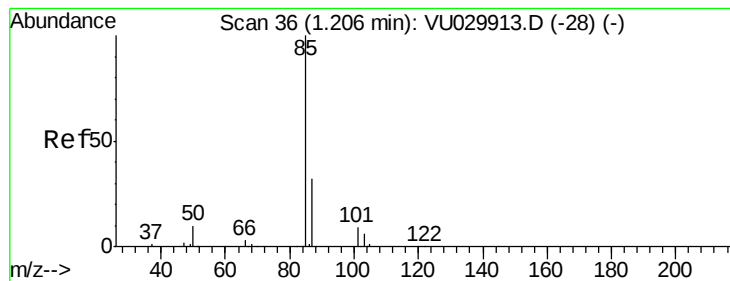
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU031119\
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 Quant Title : VOC Analysis
 QLast Update : Mon Mar 11 01:54:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.63	91	3258939	200.172	ug/L	100
44) trans-1,3-Dichloropropene	7.87	75	1108954	204.047	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	775173	201.780	ug/L	99
46) Tetrachloroethene	8.22	164	685287	191.211	ug/L	99
48) 2-Hexanone	8.36	43	1852133	418.461	ug/L	99
49) Dibromochloromethane	8.48	129	899596	197.049	ug/L	100
50) 1,2-Dibromoethane	8.58	107	842363	198.562	ug/L	98
51) Chlorobenzene	9.12	112	2225504	201.005	ug/L	99
52) Ethylbenzene	9.25	91	3733340	203.657	ug/L	99
53) m,p-Xylene	9.37	106	1468207	200.628	ug/L	99
54) o-xylene	9.78	106	1470169	200.501	ug/L	99
55) Styrene	9.79	104	2500539	203.318	ug/L	97
56) Isopropylbenzene	10.16	105	3809259	198.679	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	1424324	209.912	ug/L	100
59) 1,2,3-Trichloropropane	10.49	75	1060260	206.676	ug/L	99
61) Bromoform	9.95	173	764199	188.755	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	1945320	200.556	ug/L	100
63) 1,4-Dichlorobenzene	11.50	146	1960094	200.545	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	1939489	192.036	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.65	75	323233	207.589	ug/L	97
67) 1,3,5-Trichlorobenzene	12.88	180	1488123	201.147	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	1382267	215.031	ug/L	100
69) Naphthalene	13.74	128	4173317	212.641	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	1365577	200.163	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 225.766 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU029915.D

Acq: 09 Mar 2019 12:51

Instrument :

MSVOA_U

ClientSampleId :

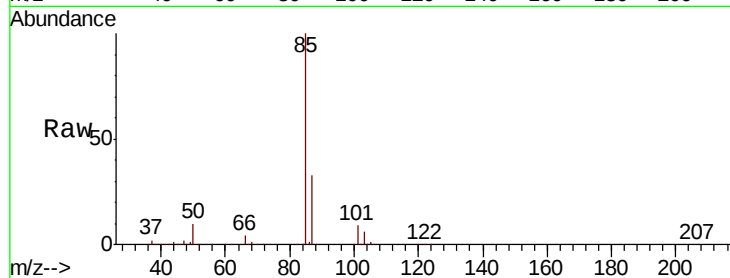
VSTD20046

Tgt Ion: 85 Resp: 831825

Ion Ratio Lower Upper

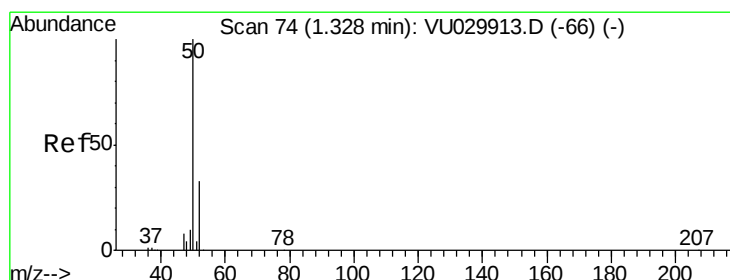
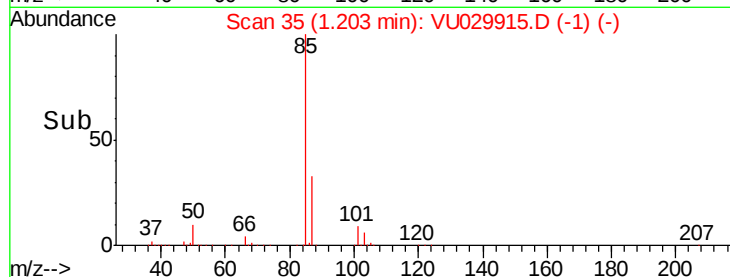
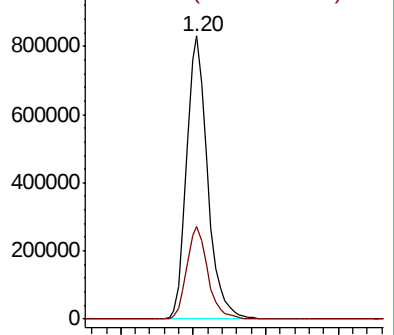
85 100

87 32.6 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 292.056 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU029915.D

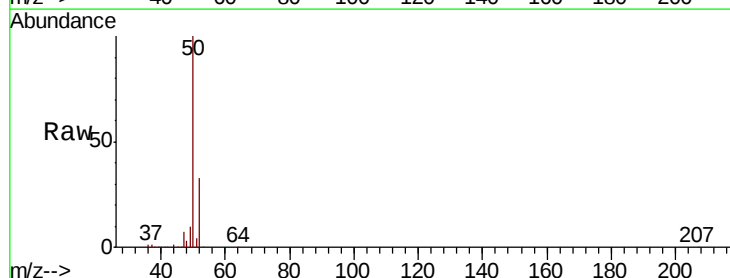
Acq: 09 Mar 2019 12:51

Tgt Ion: 50 Resp: 1041645

Ion Ratio Lower Upper

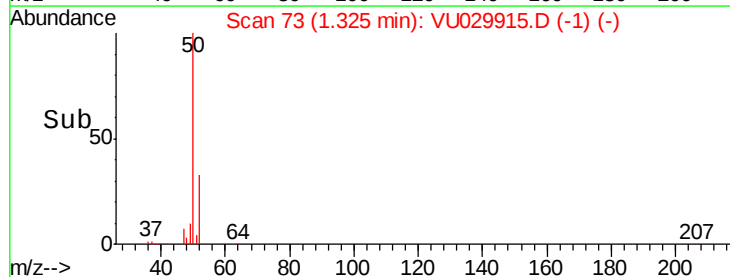
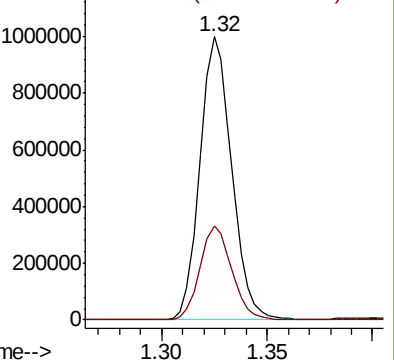
50 100

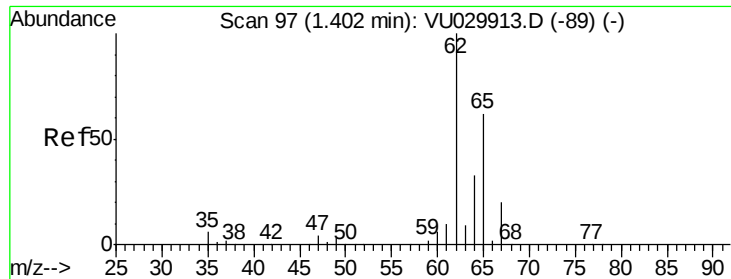
52 33.3 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 204.269 ug/L

RT: 1.40 min Scan# 97

Delta R.T. -0.00 min

Lab File: VU029915.D

Acq: 09 Mar 2019 12:51

Instrument :

MSVOA_U

ClientSampleId :

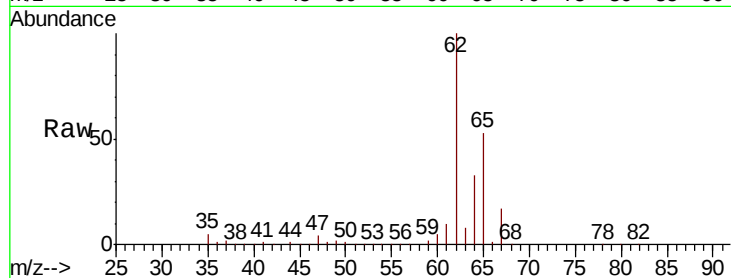
VSTD20046

Tgt Ion: 62 Resp: 864694

Ion Ratio Lower Upper

62 100

64 32.5 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

1.40

800000

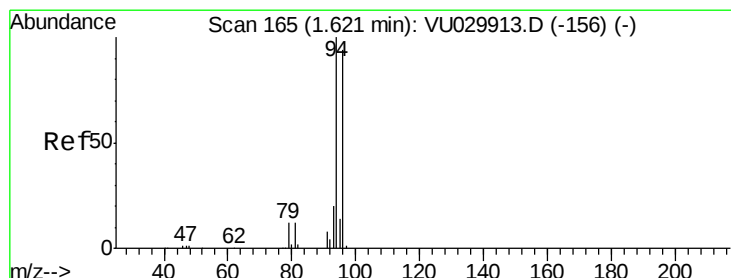
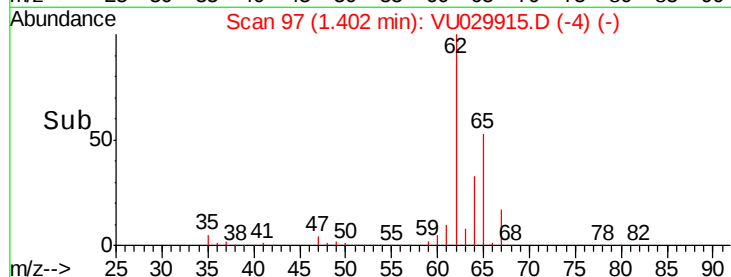
600000

400000

200000

0

Time-->



#6

Bromomethane

Concen: 117.069 ug/L

RT: 1.60 min Scan# 160

Delta R.T. -0.02 min

Lab File: VU029915.D

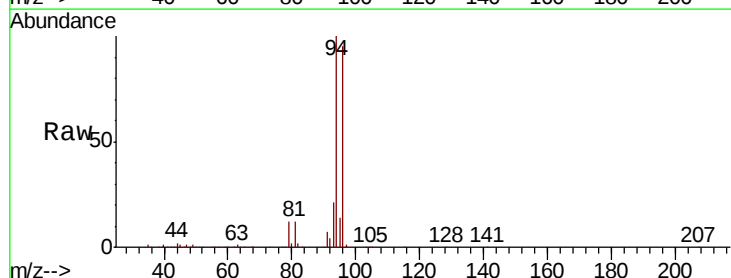
Acq: 09 Mar 2019 12:51

Tgt Ion: 94 Resp: 211048

Ion Ratio Lower Upper

94 100

96 94.8 65.7 121.9



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

1.60

250000

200000

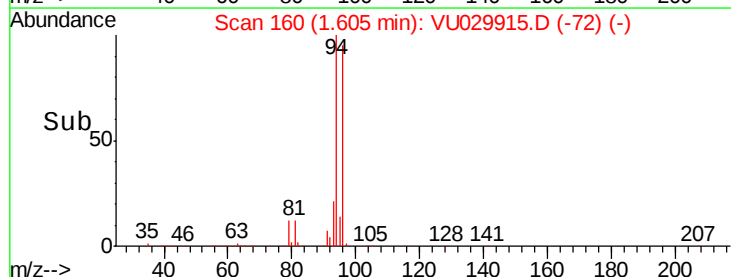
150000

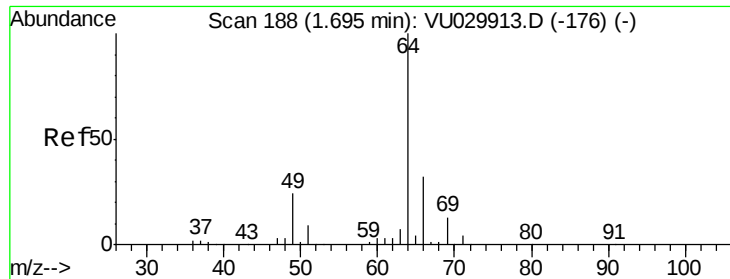
100000

50000

0

Time-->

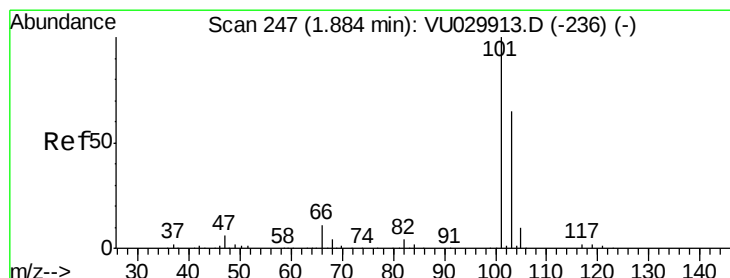
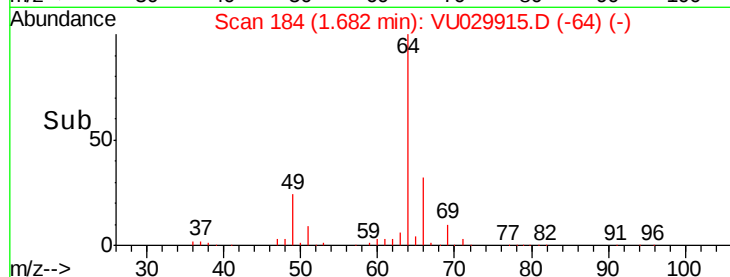
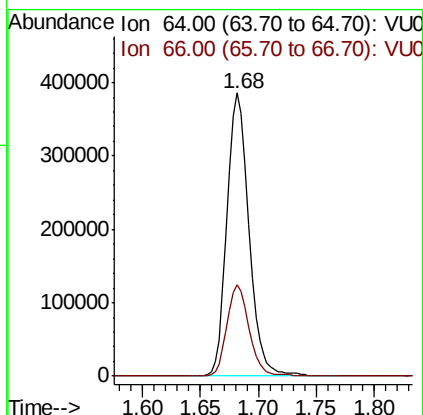
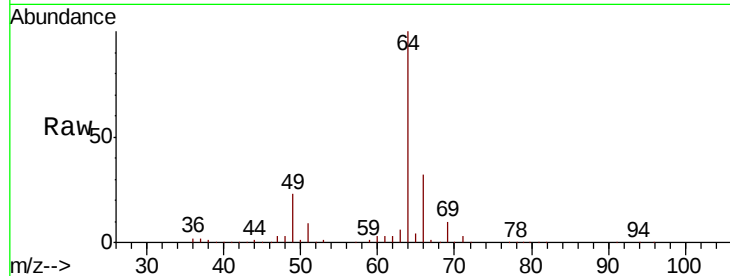




#8
Chloroethane
Concen: 180.510 ug/L
RT: 1.68 min Scan# 184
Delta R.T. -0.01 min
Lab File: VU029915.D
Acq: 09 Mar 2019 12:51

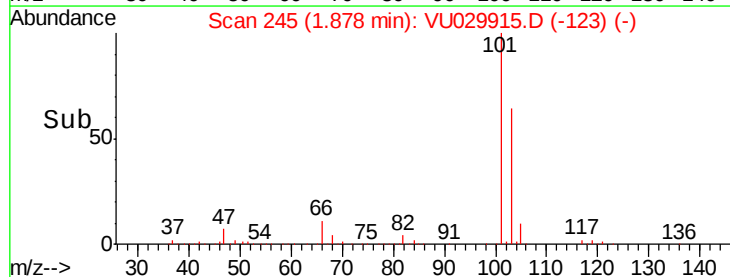
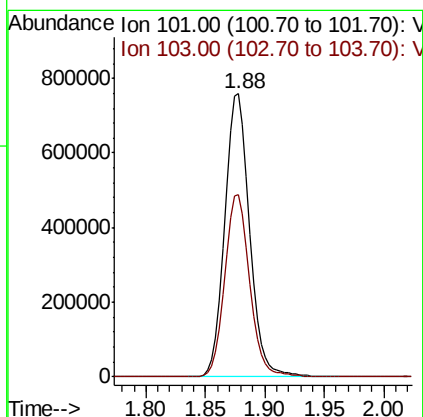
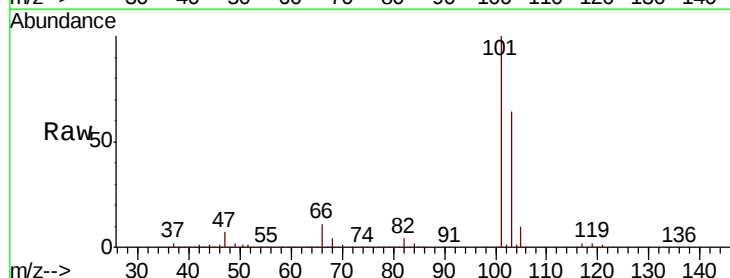
Instrument :
MSVOA_U
ClientSampleId :
VSTD20046

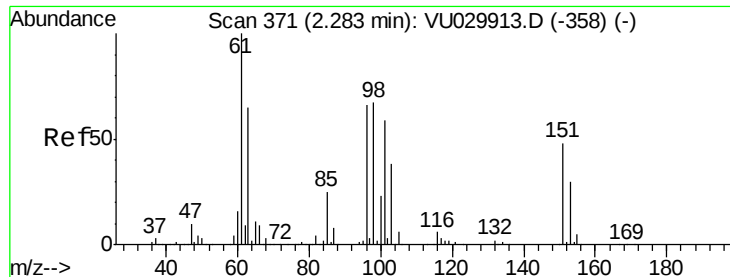
Tgt Ion: 64 Resp: 502677
Ion Ratio Lower Upper
64 100
66 32.2 22.5 41.7



#9
Trichlorofluoromethane
Concen: 168.197 ug/L
RT: 1.88 min Scan# 245
Delta R.T. -0.01 min
Lab File: VU029915.D
Acq: 09 Mar 2019 12:51

Tgt Ion: 101 Resp: 1099561
Ion Ratio Lower Upper
101 100
103 64.8 51.4 77.2





#10

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

Concen: 195.976 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU029915.D

Acq: 09 Mar 2019 12:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD20046

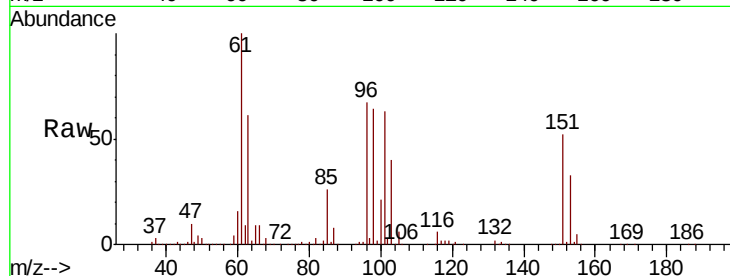
Tgt Ion: 101 Resp: 693239

Ion Ratio Lower Upper

101 100

85 40.9 33.4 50.2

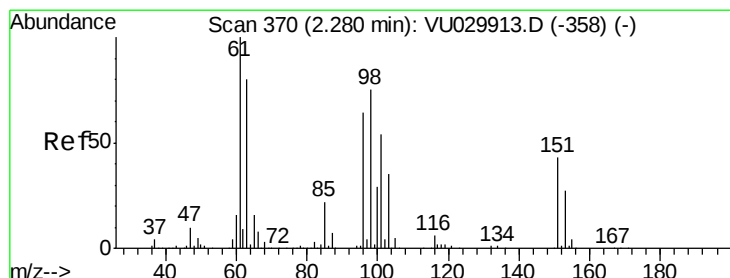
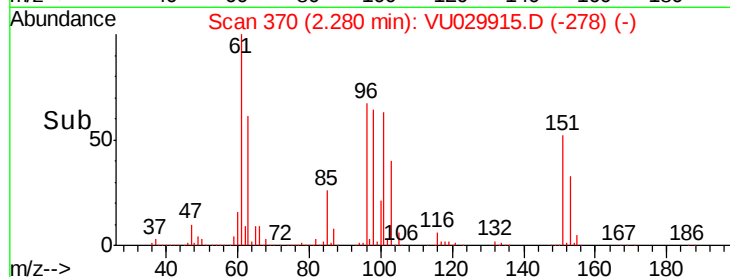
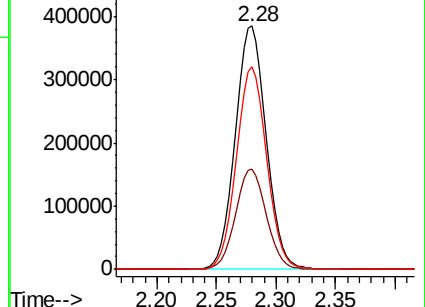
151 82.0 65.8 98.6



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: 201.013 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.00 min

Lab File: VU029915.D

Acq: 09 Mar 2019 12:51

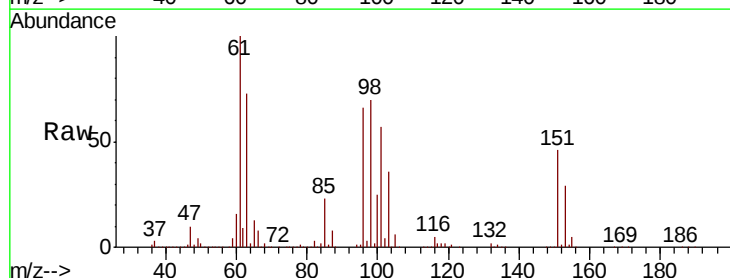
Tgt Ion: 96 Resp: 678365

Ion Ratio Lower Upper

96 100

61 151.0 109.0 202.4

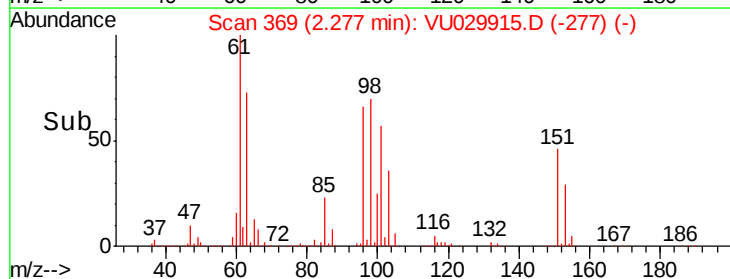
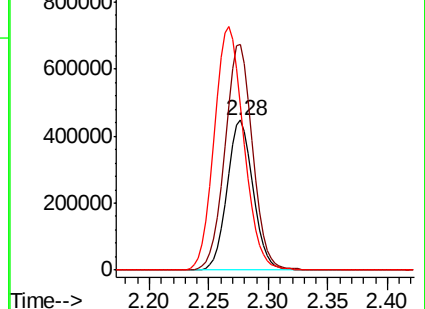
63 109.9 88.1 163.5

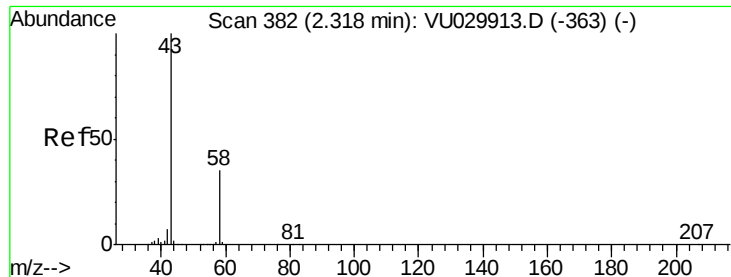


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 385.863 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VU029915.D

Acq: 09 Mar 2019 12:51

Instrument :

MSVOA_U

ClientSampleId :

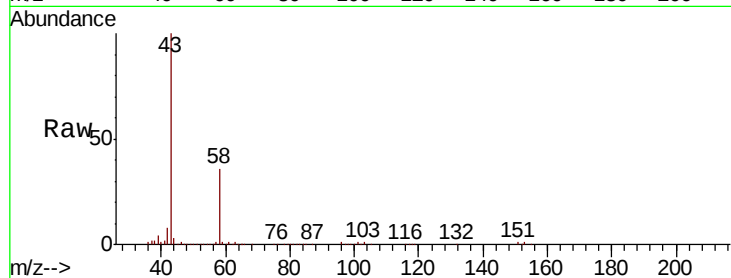
VSTD20046

Tgt Ion: 43 Resp: 982457

Ion Ratio Lower Upper

43 100

58 35.8 0.0 70.2



Abundance Ion 43.00 (42.70 to 43.70): VU029913.D (-363) (-)

Ion 58.00 (57.70 to 58.70): VU029913.D (-363) (-)

2.32

600000

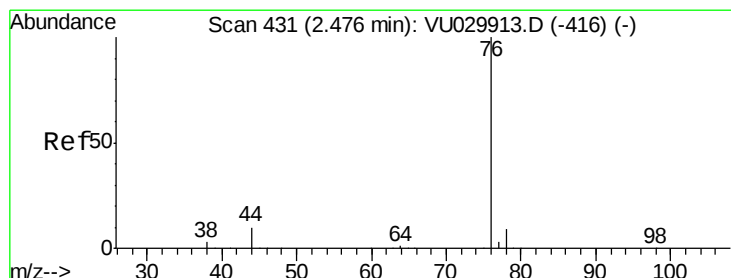
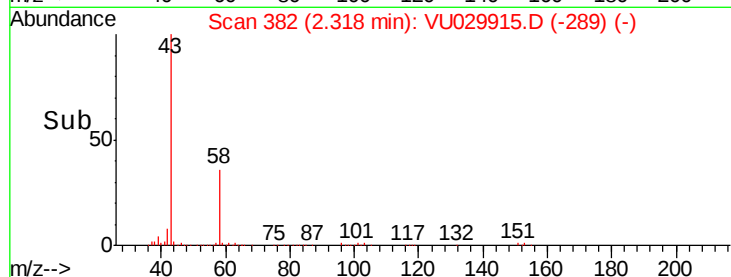
400000

200000

0

2.20 2.30 2.40

Time-->



#14

Carbon disulfide

Concen: 228.138 ug/L

RT: 2.47 min Scan# 429

Delta R.T. -0.01 min

Lab File: VU029915.D

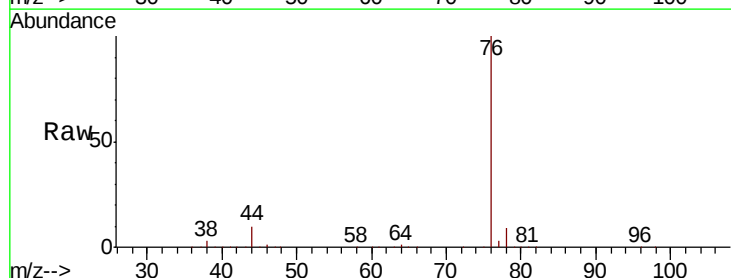
Acq: 09 Mar 2019 12:51

Tgt Ion: 76 Resp: 2118023

Ion Ratio Lower Upper

76 100

78 9.0 7.5 11.3



Abundance Ion 76.00 (75.70 to 76.70): VU029913.D (-416) (-)

Ion 78.00 (77.70 to 78.70): VU029913.D (-416) (-)

2.47

1500000

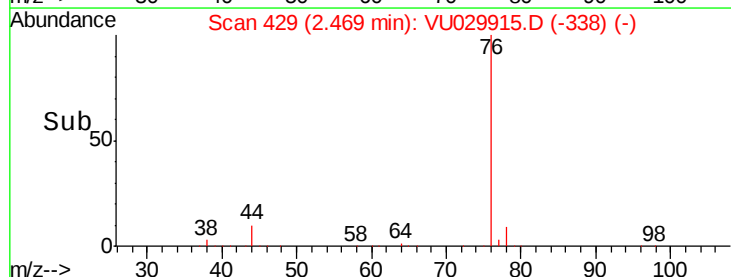
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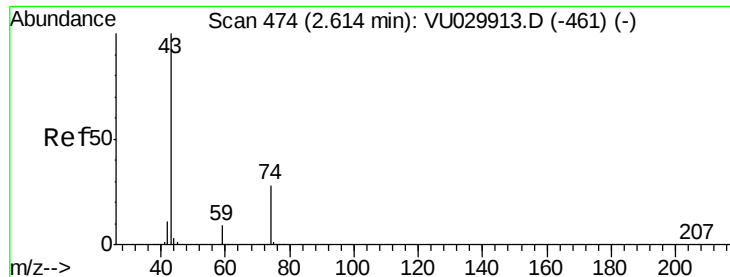
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2.40 2.50 2.60

Time-->

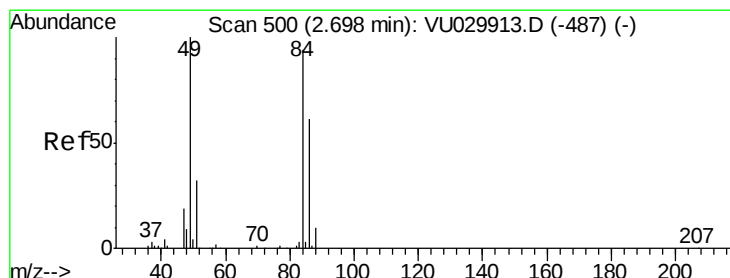
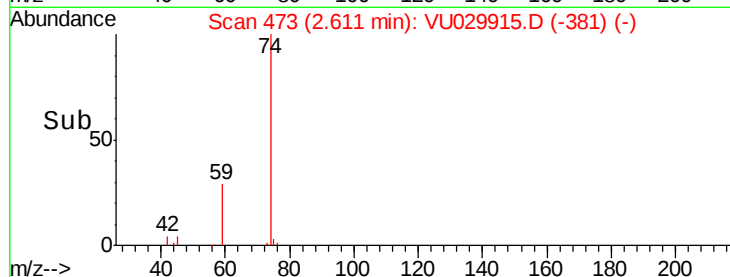
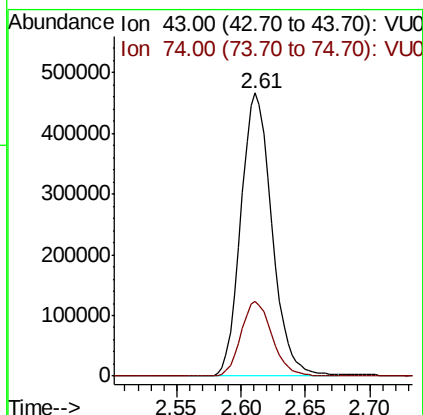
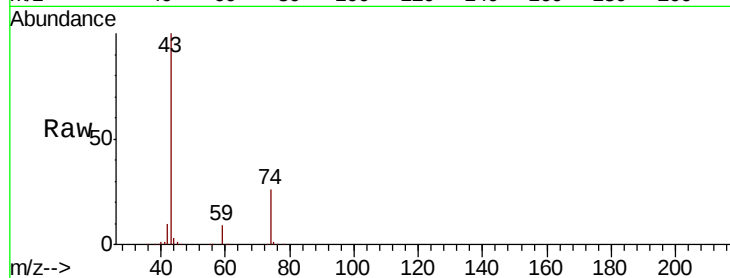




#15
Methyl Acetate
Concen: 234.142 ug/L
RT: 2.61 min Scan# 473
Delta R.T. -0.00 min
Lab File: VU029915.D
Acq: 09 Mar 2019 12:51

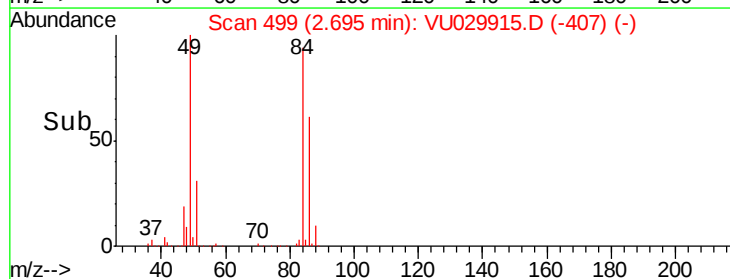
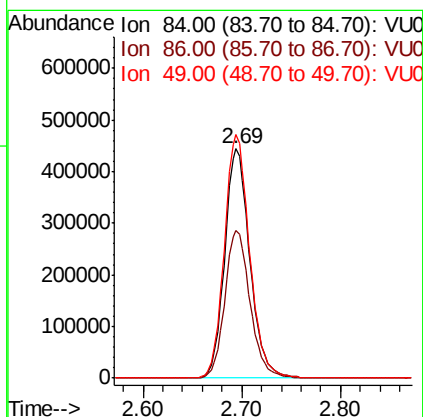
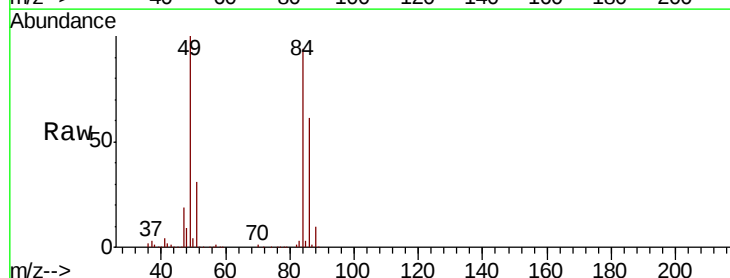
Instrument :
MSVOA_U
ClientSampleId :
VSTD20046

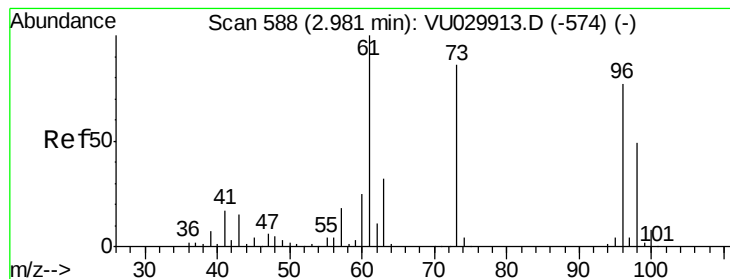
Tgt Ion: 43 Resp: 784581
Ion Ratio Lower Upper
43 100
74 26.6 22.1 33.1



#16
Methylene chloride
Concen: 230.508 ug/L
RT: 2.69 min Scan# 499
Delta R.T. -0.00 min
Lab File: VU029915.D
Acq: 09 Mar 2019 12:51

Tgt Ion: 84 Resp: 792204
Ion Ratio Lower Upper
84 100
86 64.7 45.3 84.1
49 106.3 74.8 139.0





#17

trans-1,2-Dichloroethene

Concen: 223.497 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU029915.D

Acq: 09 Mar 2019 12:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD20046

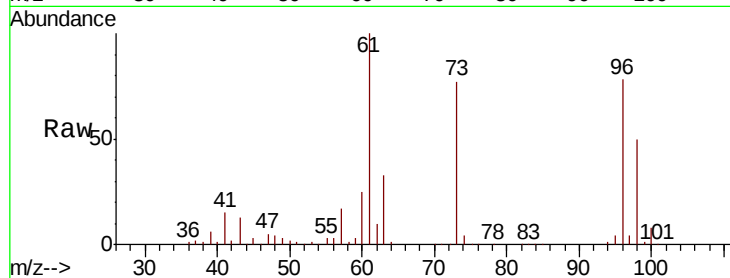
Tgt Ion: 96 Resp: 725685

Ion Ratio Lower Upper

96 100

61 128.1 91.1 169.3

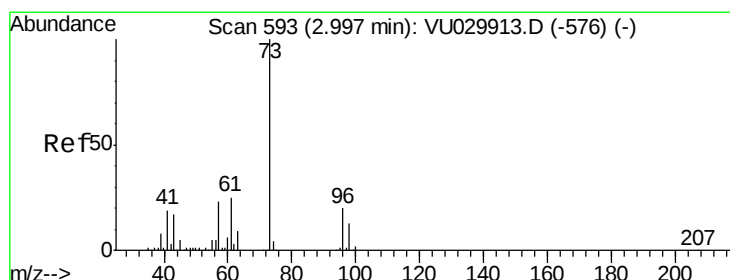
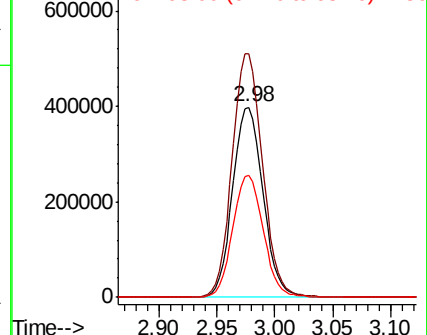
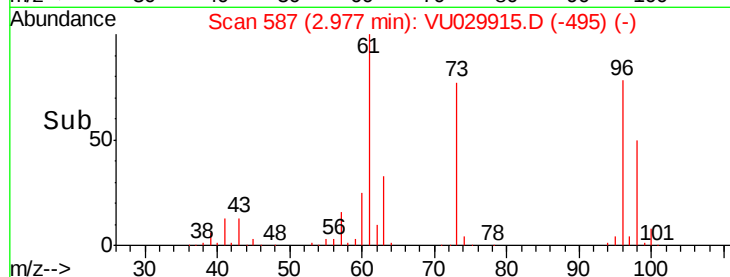
98 64.3 45.0 83.6



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: 201.286 ug/L

RT: 3.00 min Scan# 593

Delta R.T. 0.00 min

Lab File: VU029915.D

Acq: 09 Mar 2019 12:51

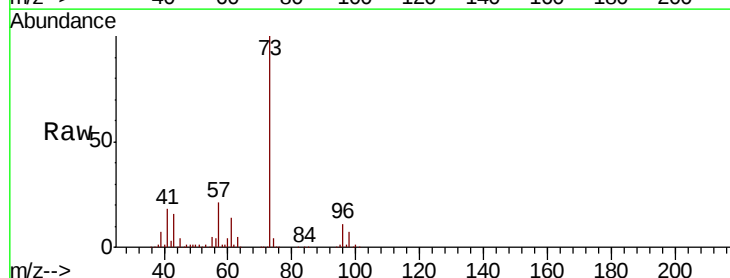
Tgt Ion: 73 Resp: 1931756

Ion Ratio Lower Upper

73 100

43 16.4 13.5 20.3

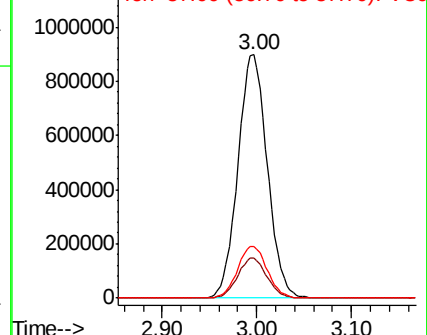
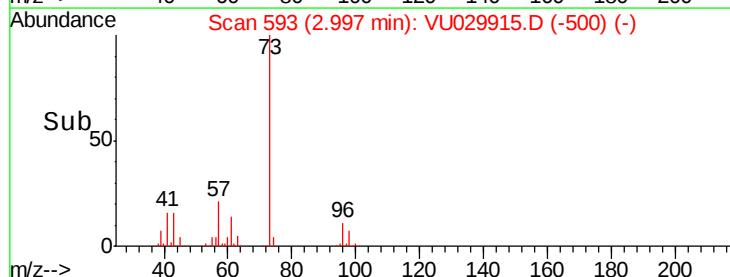
57 21.5 17.4 26.0

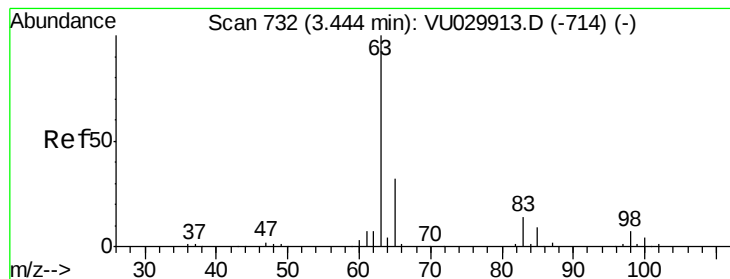


Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 219.417 ug/L

RT: 3.44 min Scan# 731

Delta R.T. -0.00 min

Lab File: VU029915.D

Acq: 09 Mar 2019 12:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD20046

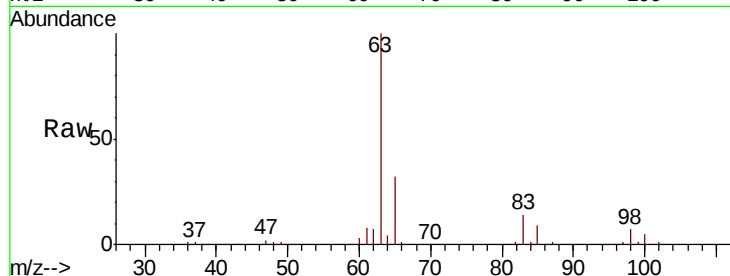
Tgt Ion: 63 Resp: 1234842

Ion Ratio Lower Upper

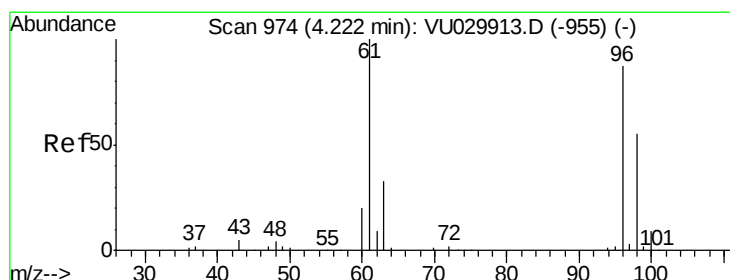
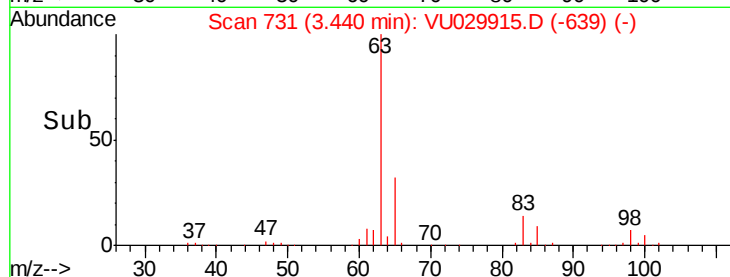
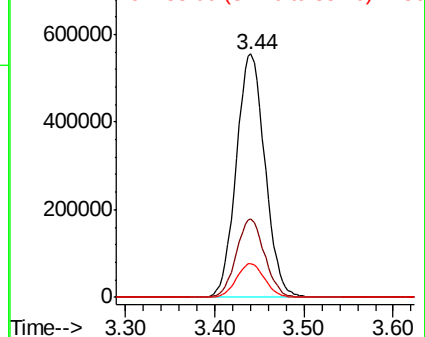
63 100

65 32.2 22.4 41.6

83 13.8 9.7 18.1



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: 219.317 ug/L

RT: 4.22 min Scan# 973

Delta R.T. -0.00 min

Lab File: VU029915.D

Acq: 09 Mar 2019 12:51

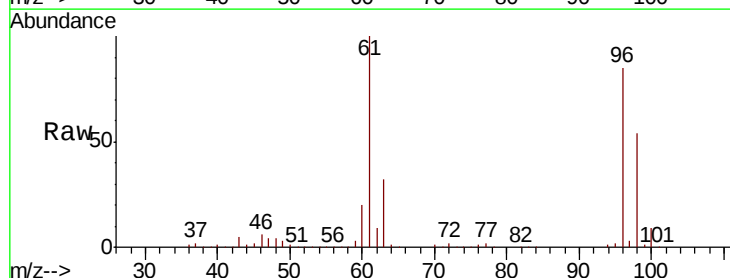
Tgt Ion: 96 Resp: 825849

Ion Ratio Lower Upper

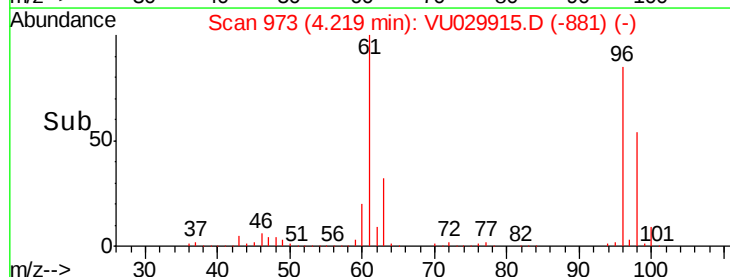
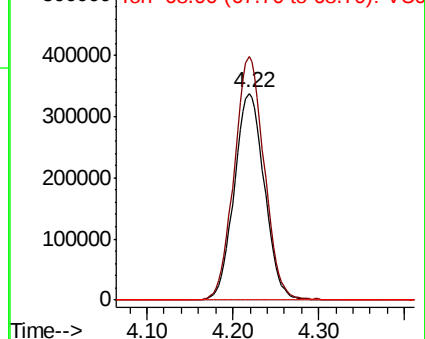
96 100

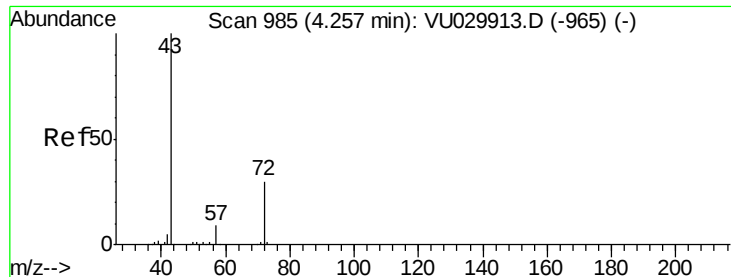
61 117.8 80.6 149.8

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: 445.384 ug/L

RT: 4.26 min Scan# 985

Delta R.T. 0.00 min

Lab File: VU029915.D

Acq: 09 Mar 2019 12:51

Instrument :

MSVOA_U

ClientSampleId :

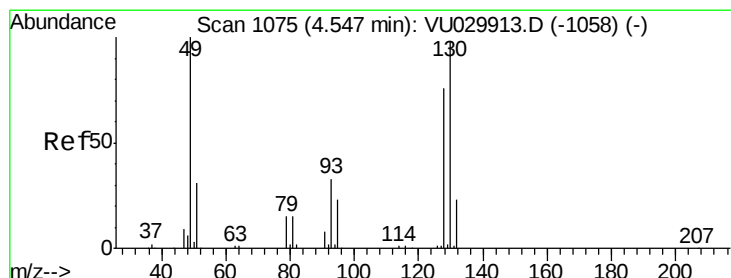
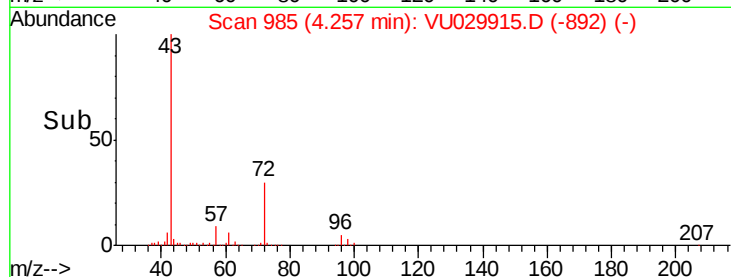
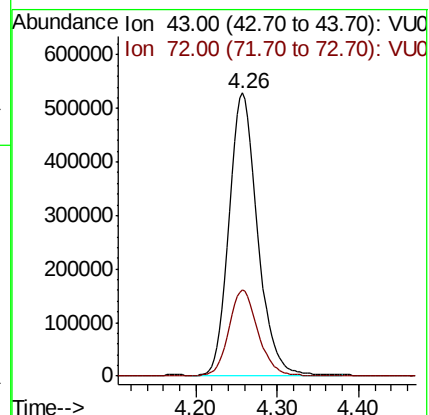
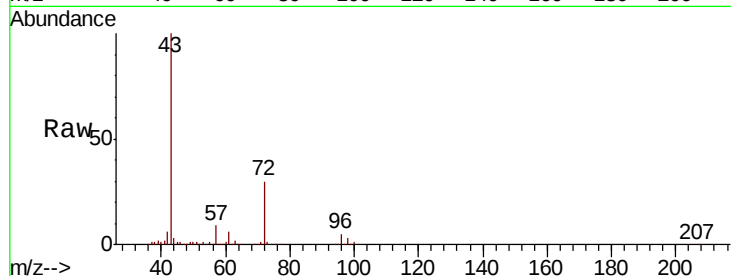
VSTD20046

Tgt Ion: 43 Resp: 1298720

Ion Ratio Lower Upper

43 100

72 31.4 15.4 46.4



#23

Bromochloromethane

Concen: 197.077 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. -0.00 min

Lab File: VU029915.D

Acq: 09 Mar 2019 12:51

Tgt Ion: 128 Resp: 397329

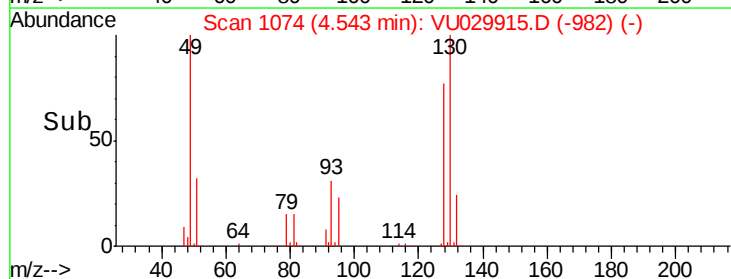
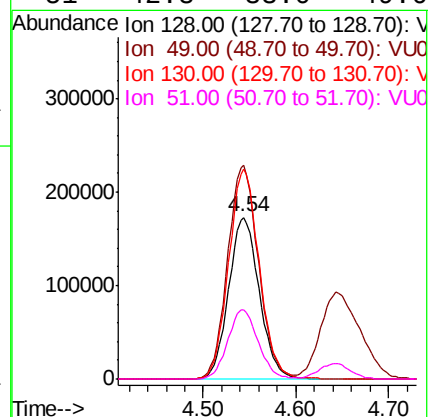
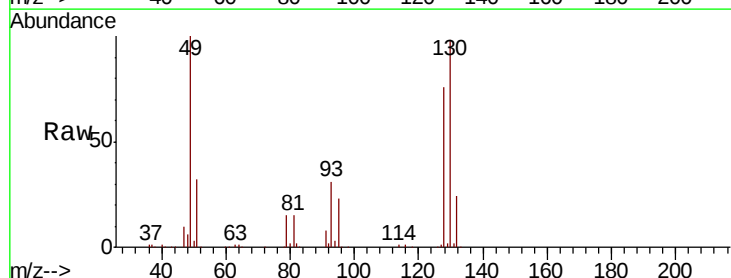
Ion Ratio Lower Upper

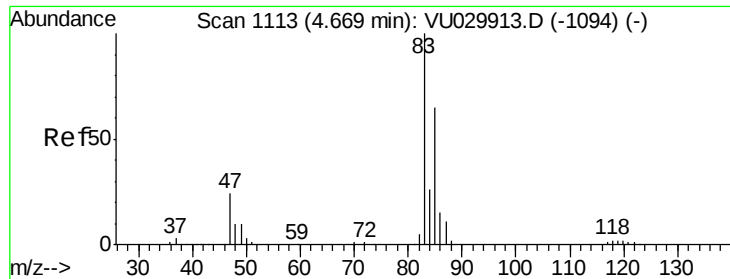
128 100

49 132.1 92.2 171.2

130 129.8 90.4 168.0

51 42.8 33.0 49.6

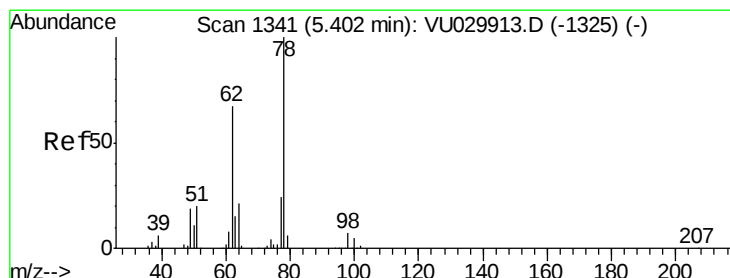
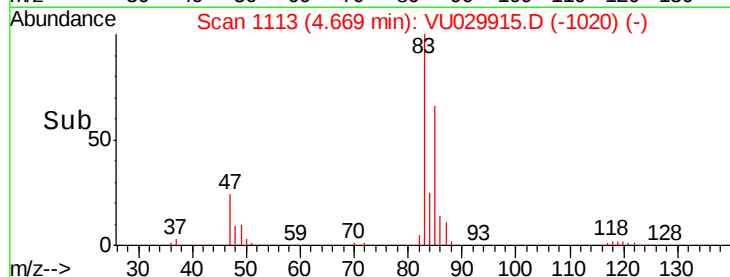
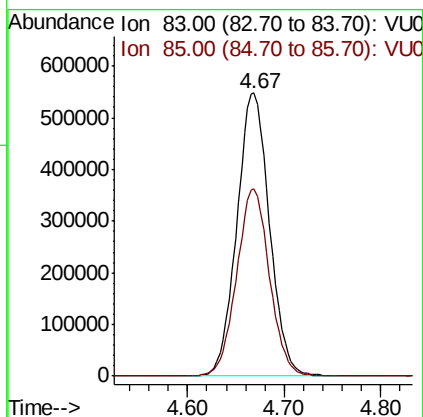
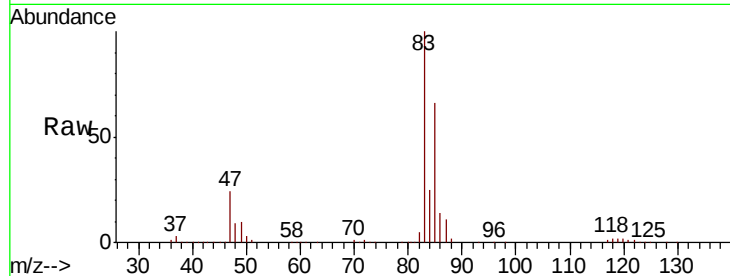




#25
Chloroform
Concen: 206.731 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VU029915.D
Acq: 09 Mar 2019 12:51

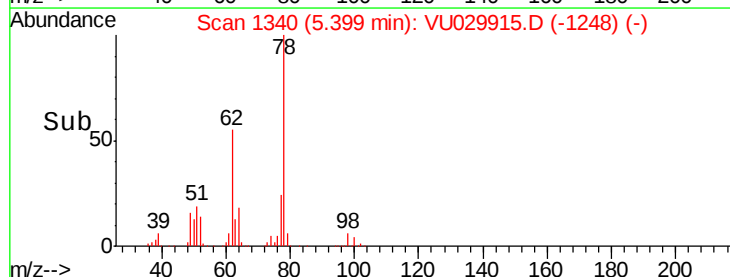
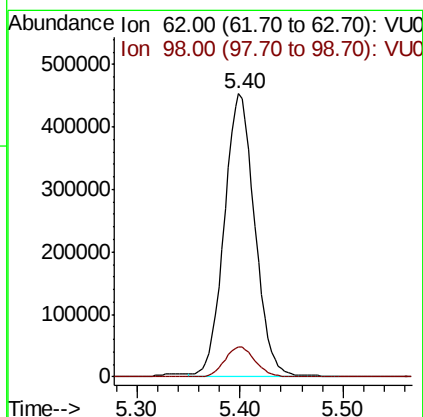
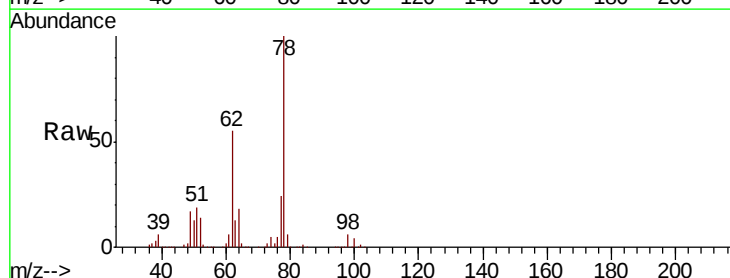
Instrument :
MSVOA_U
ClientSampleId :
VSTD20046

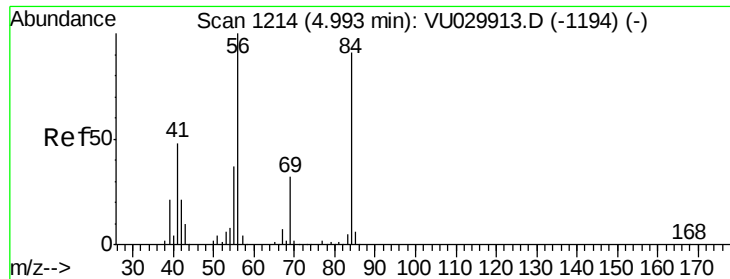
Tgt Ion: 83 Resp: 1284355
Ion Ratio Lower Upper
83 100
85 66.1 45.3 84.1



#27
1,2-Dichloroethane
Concen: 198.299 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VU029915.D
Acq: 09 Mar 2019 12:51

Tgt Ion: 62 Resp: 932118
Ion Ratio Lower Upper
62 100
98 10.5 8.6 12.8

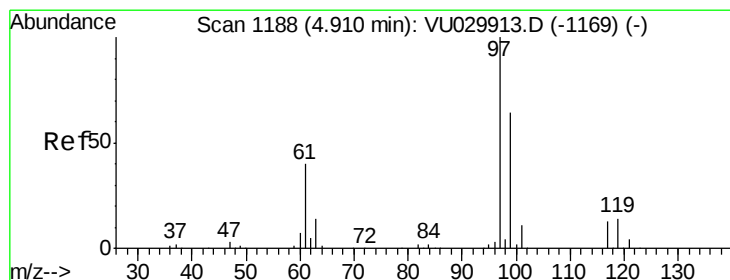
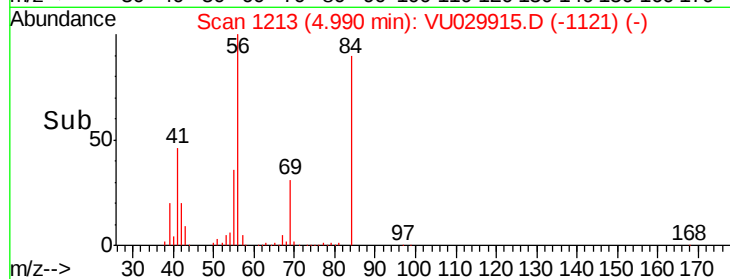
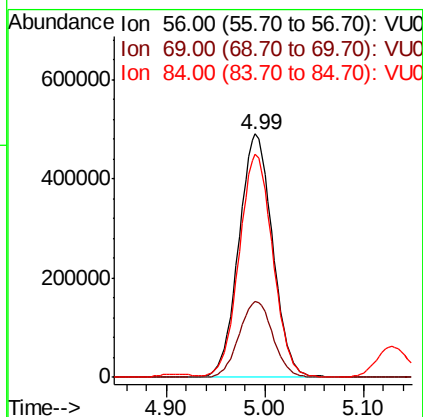
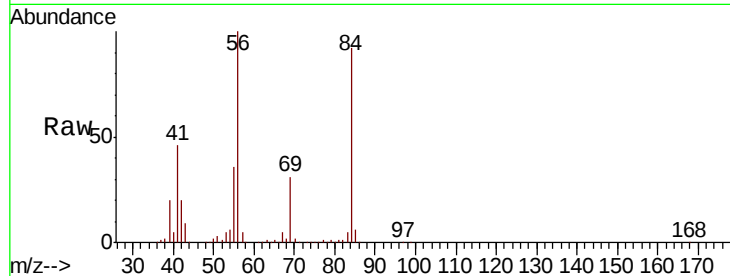




#29
Cyclohexane
Concen: 215.609 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. -0.00 min
Lab File: VU029915.D
Acq: 09 Mar 2019 12:51

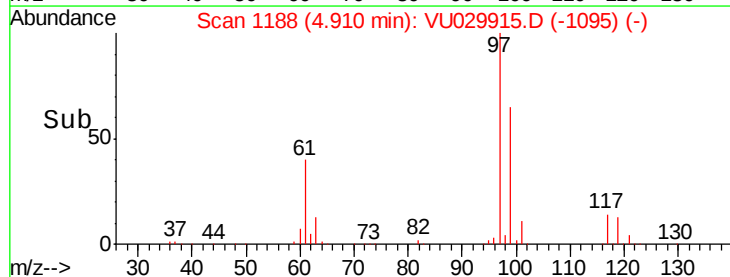
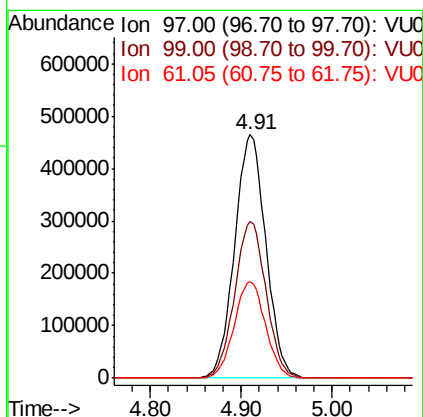
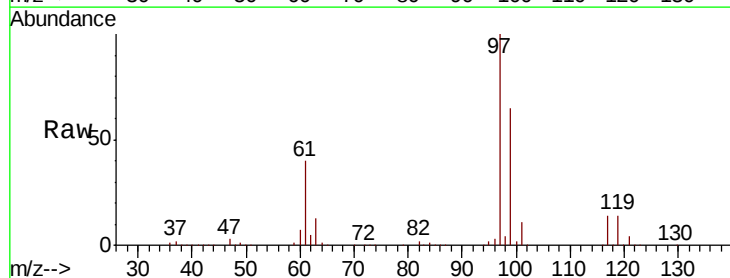
Instrument :
MSVOA_U
ClientSampleId :
VSTD20046

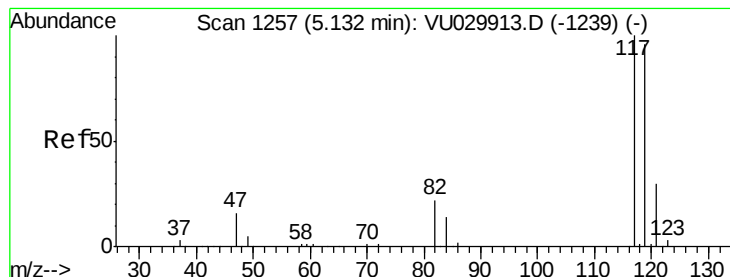
Tgt Ion: 56 Resp: 1162846
Ion Ratio Lower Upper
56 100
69 31.3 25.4 38.0
84 91.5 73.0 109.6



#30
1,1,1-Trichloroethane
Concen: 194.654 ug/L
RT: 4.91 min Scan# 1188
Delta R.T. 0.00 min
Lab File: VU029915.D
Acq: 09 Mar 2019 12:51

Tgt Ion: 97 Resp: 1106486
Ion Ratio Lower Upper
97 100
99 64.5 51.4 77.0
61 39.9 32.2 48.2





#31

Carbon tetrachloride

Concen: 190.344 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. -0.00 min

Lab File: VU029915.D

Acq: 09 Mar 2019 12:51

Instrument :

MSVOA_U

ClientSampleId :

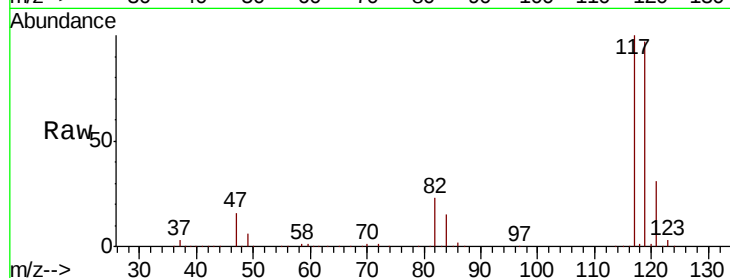
VSTD20046

Tgt Ion:117 Resp: 972485

Ion Ratio Lower Upper

117 100

119 96.5 76.9 115.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

5.13

400000

300000

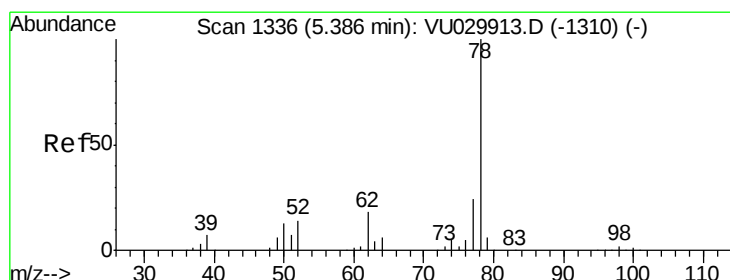
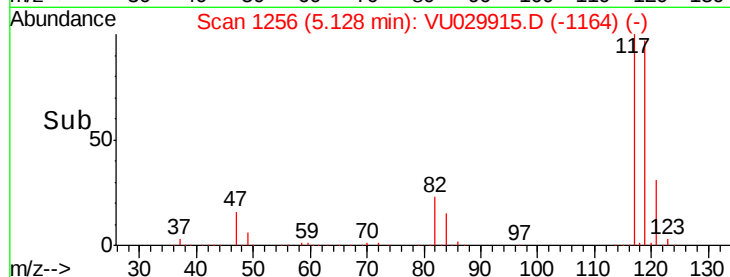
200000

100000

0

Time-->

5.00 5.10 5.20



#33

Benzene

Concen: 210.437 ug/L

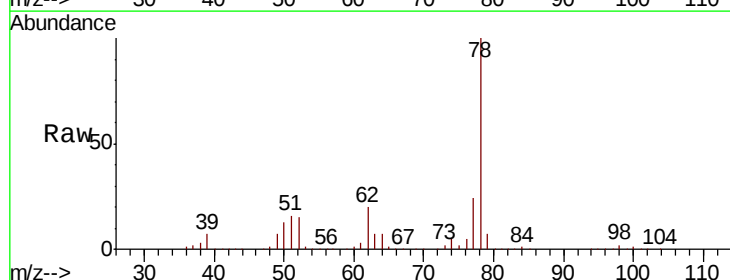
RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU029915.D

Acq: 09 Mar 2019 12:51

Tgt Ion: 78 Resp: 2935139



Abundance Ion 78.00 (77.70 to 78.70): VU0

1500000

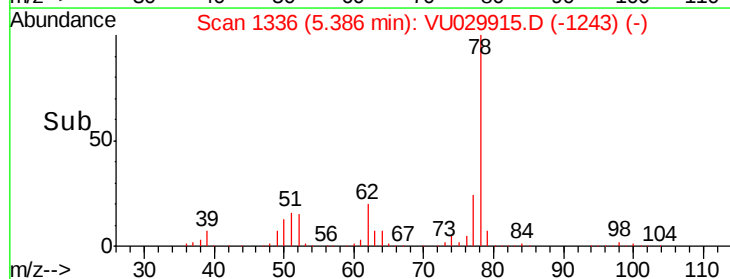
1000000

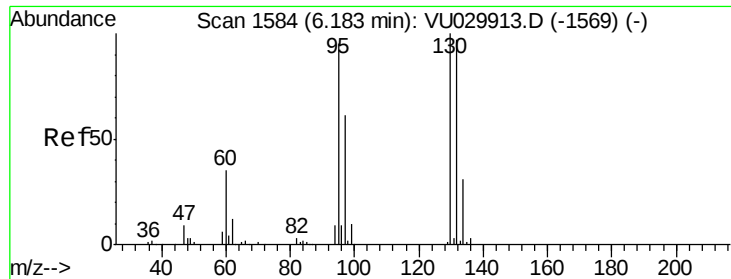
500000

0

Time-->

5.20 5.40 5.60

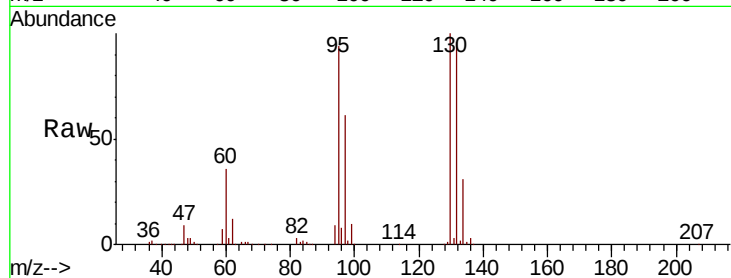




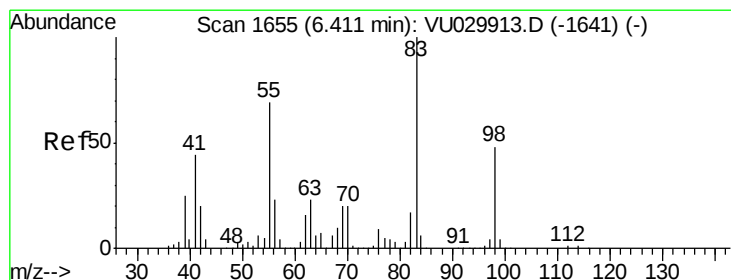
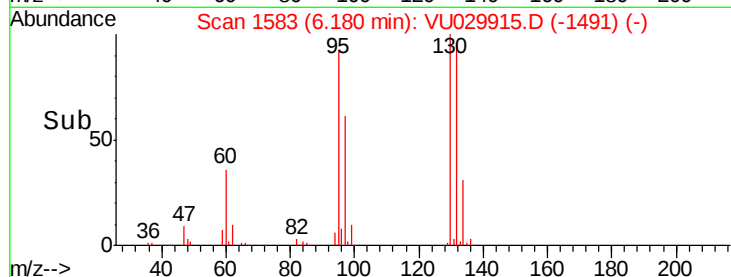
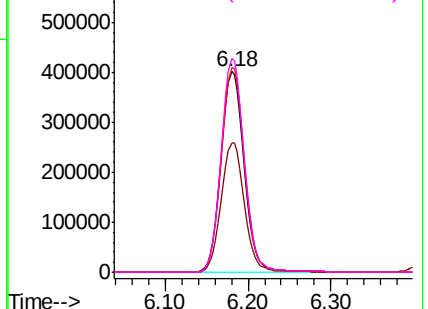
#34
 Trichloroethene
 Concen: 209.207 ug/L
 RT: 6.18 min Scan# 1583
 Delta R.T. -0.00 min
 Lab File: VU029915.D
 Acq: 09 Mar 2019 12:51

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20046

Tgt Ion: 95 Resp: 779453
 Ion Ratio Lower Upper
 95 100
 97 64.7 45.1 83.7
 132 101.9 72.0 133.6
 130 106.5 74.1 137.5

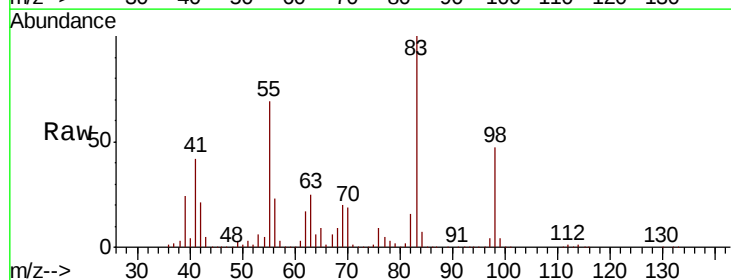


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

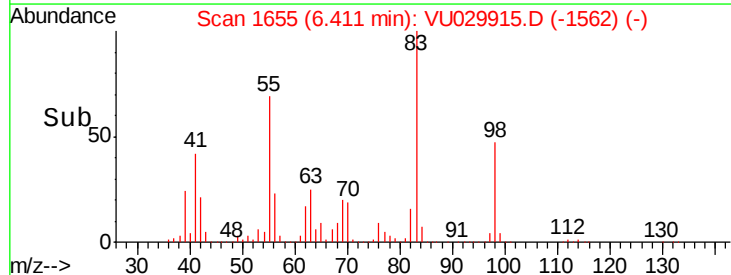
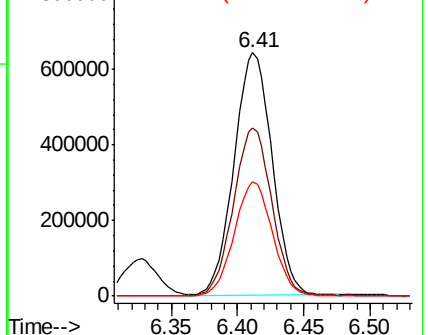


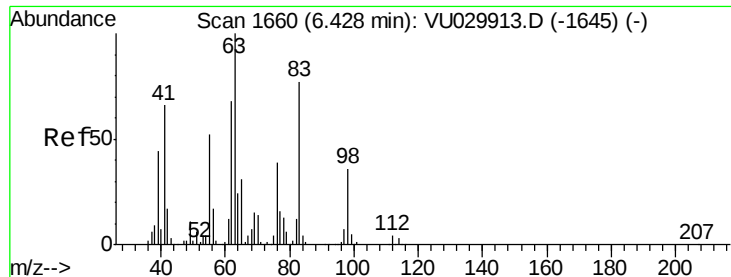
#35
 Methylcyclohexane
 Concen: 206.660 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU029915.D
 Acq: 09 Mar 2019 12:51

Tgt Ion: 83 Resp: 1282871
 Ion Ratio Lower Upper
 83 100
 55 70.0 55.5 83.3
 98 47.2 37.6 56.4



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

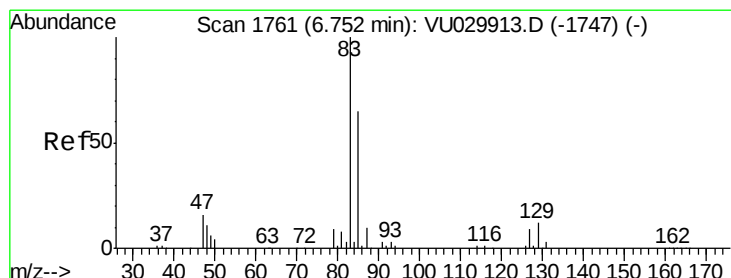
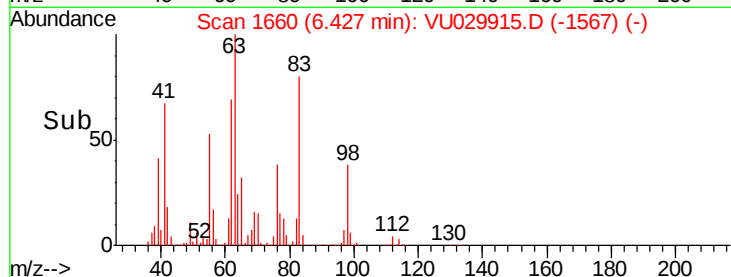
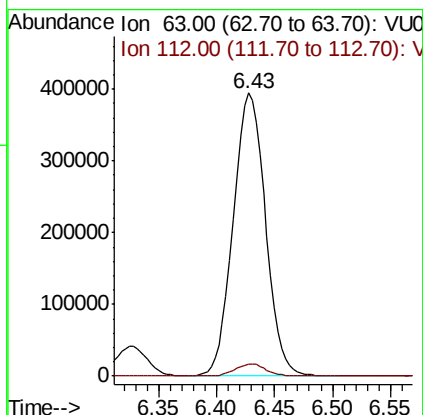
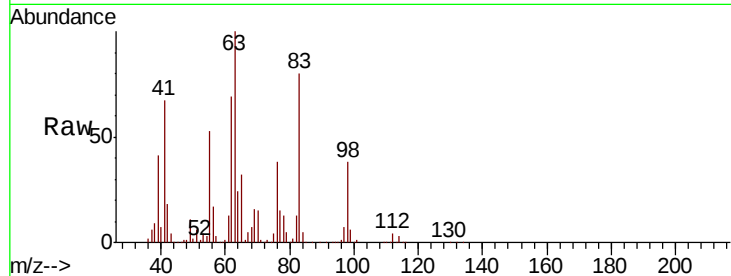




#37
 1,2-Dichloropropane
 Concen: 208.297 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. -0.00 min
 Lab File: VU029915.D
 Acq: 09 Mar 2019 12:51

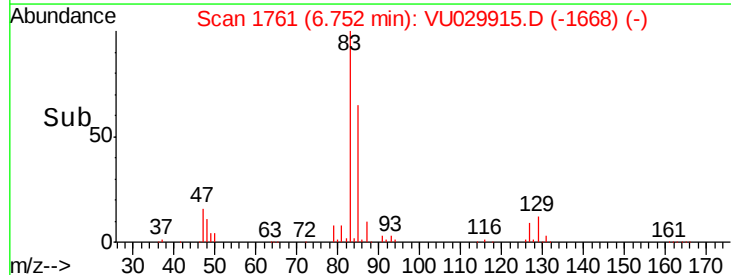
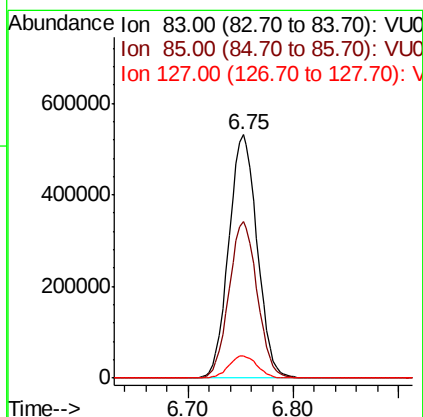
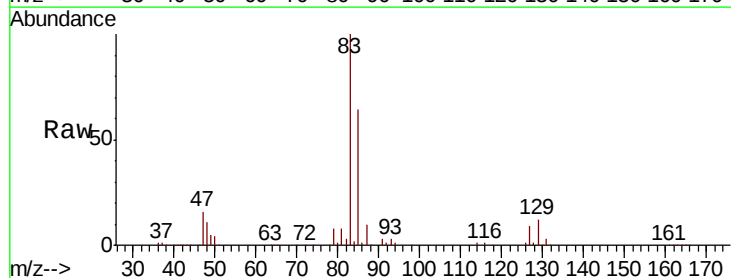
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20046

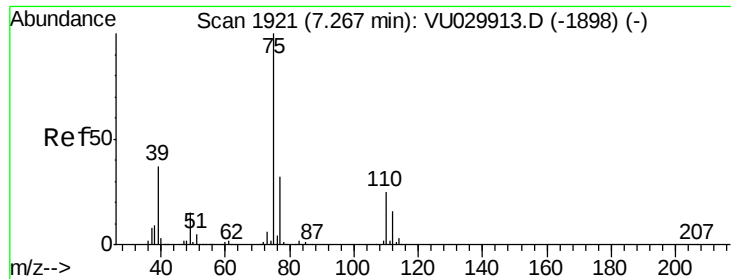
Tgt Ion: 63 Resp: 758356
 Ion Ratio Lower Upper
 63 100
 112 4.2 3.4 5.0



#38
 Bromodichloromethane
 Concen: 202.861 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. -0.00 min
 Lab File: VU029915.D
 Acq: 09 Mar 2019 12:51

Tgt Ion: 83 Resp: 986411
 Ion Ratio Lower Upper
 83 100
 85 64.4 45.2 84.0
 127 9.2 7.4 11.0

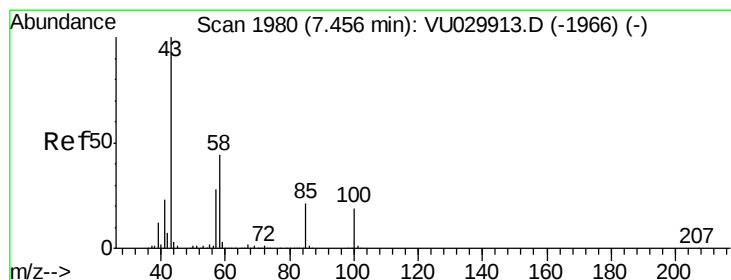
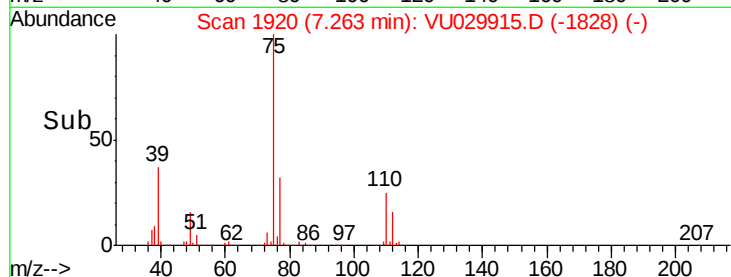
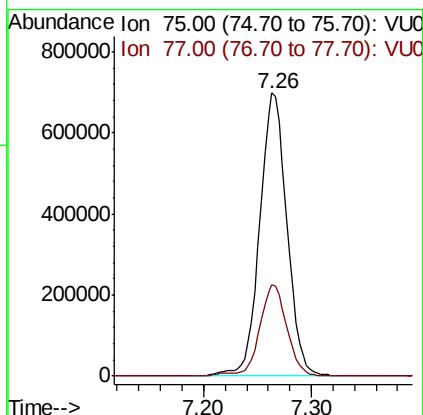
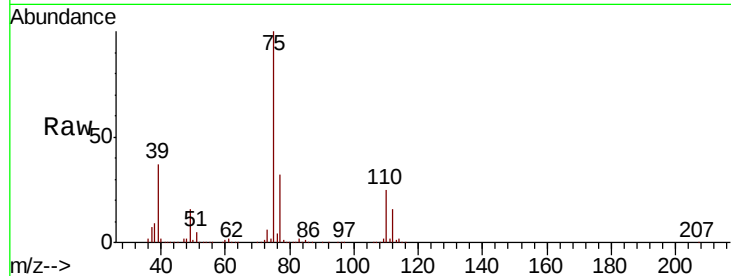




#39
 cis-1,3-Dichloropropene
 Concen: 211.302 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. -0.00 min
 Lab File: VU029915.D
 Acq: 09 Mar 2019 12:51

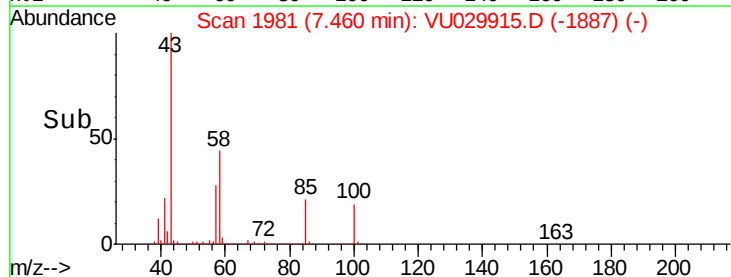
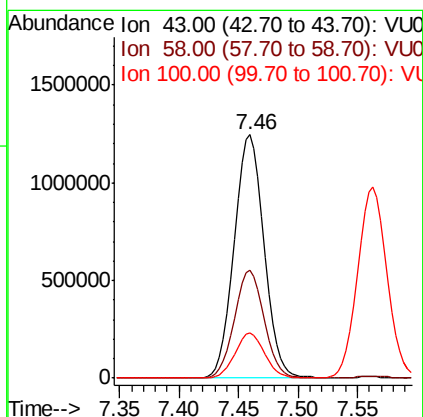
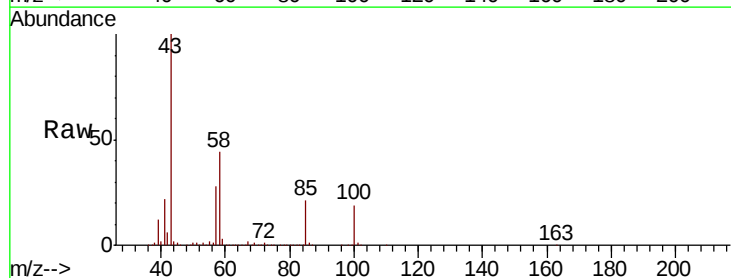
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD20046

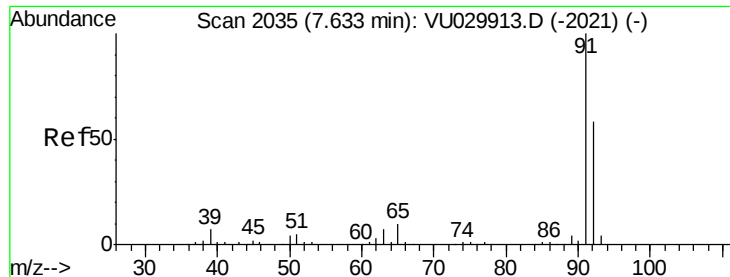
Tgt Ion: 75 Resp: 1223079
 Ion Ratio Lower Upper
 75 100
 77 32.2 22.5 41.9



#40
 4-Methyl-2-pentanone
 Concen: 427.340 ug/L
 RT: 7.46 min Scan# 1981
 Delta R.T. 0.00 min
 Lab File: VU029915.D
 Acq: 09 Mar 2019 12:51

Tgt Ion: 43 Resp: 2168854
 Ion Ratio Lower Upper
 43 100
 58 44.2 35.0 52.6
 100 18.3 14.8 22.2





#42

Toluene

Concen: 200.172 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU029915.D

Acq: 09 Mar 2019 12:51

Instrument :

MSVOA_U

ClientSampleId :

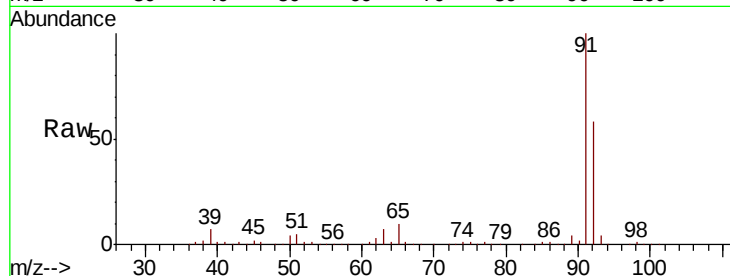
VSTD20046

Tgt Ion: 91 Resp: 3258939

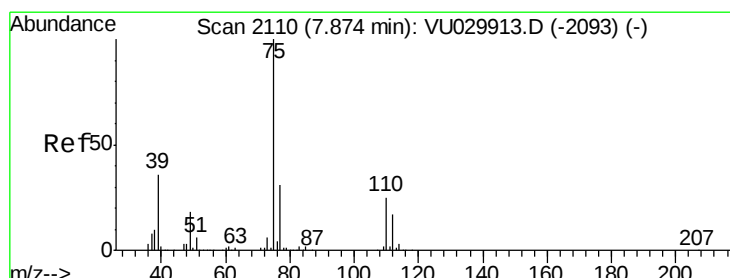
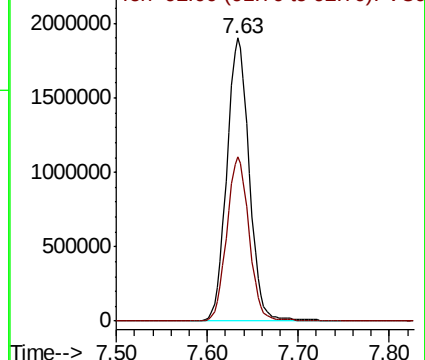
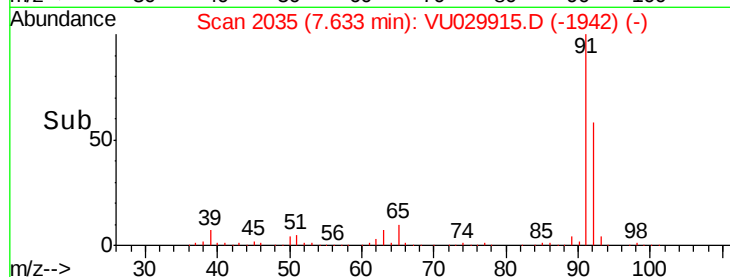
Ion Ratio Lower Upper

91 100

92 58.1 40.5 75.1



Abundance Ion 91.00 (90.70 to 91.70): VU029915.D (-1942) (-)



#44

trans-1,3-Dichloropropene

Concen: 204.047 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VU029915.D

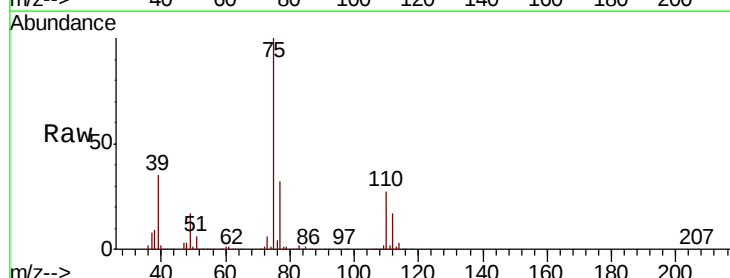
Acq: 09 Mar 2019 12:51

Tgt Ion: 75 Resp: 1108954

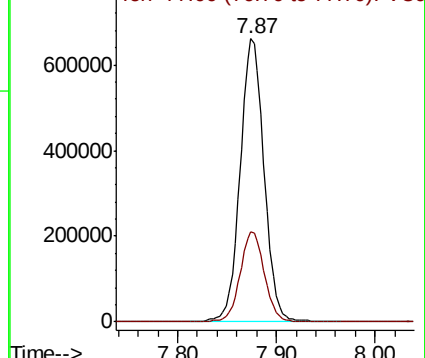
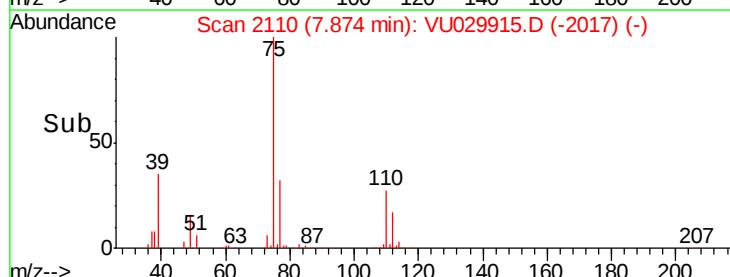
Ion Ratio Lower Upper

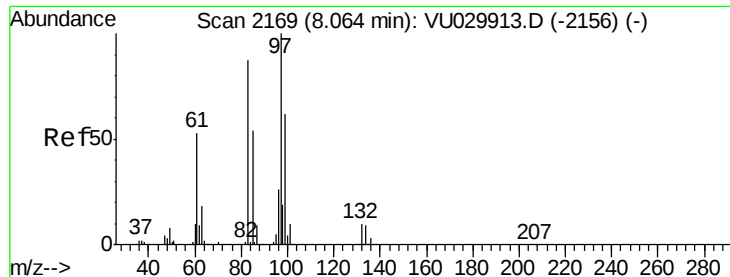
75 100

77 31.9 21.8 40.6



Abundance Ion 75.00 (74.70 to 75.70): VU029915.D (-2017) (-)

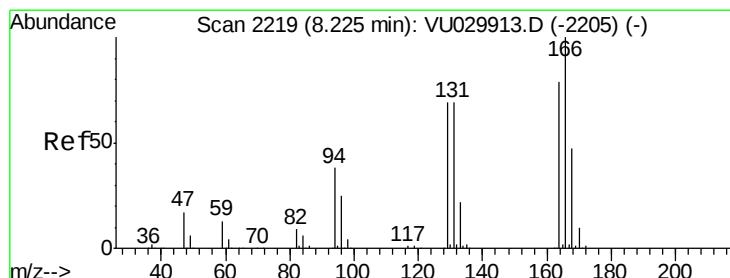
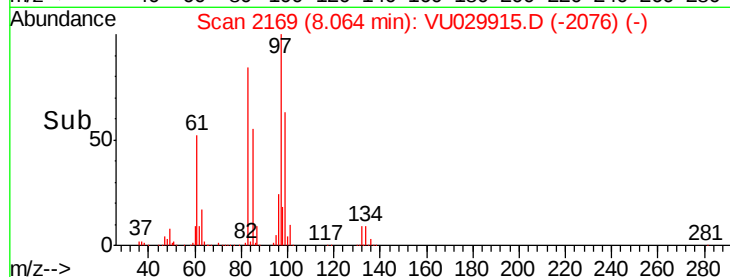
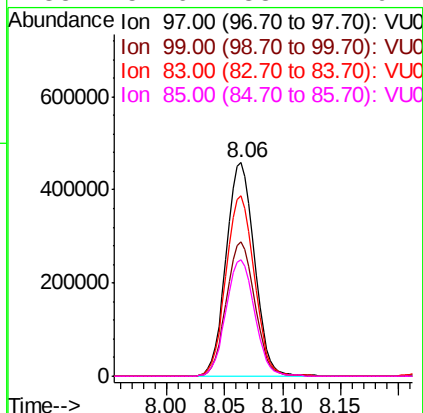
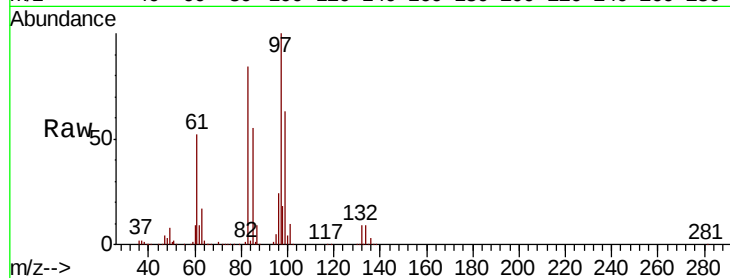




#45
 1,1,2-Trichloroethane
 Concen: 201.780 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU029915.D
 Acq: 09 Mar 2019 12:51

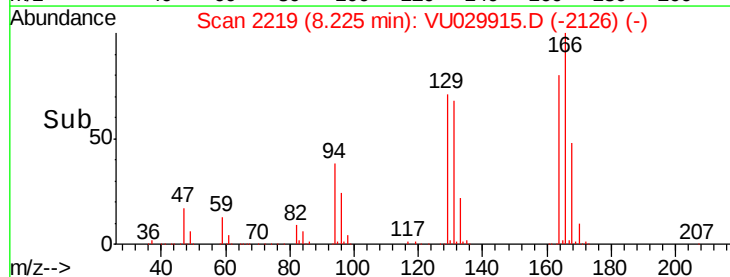
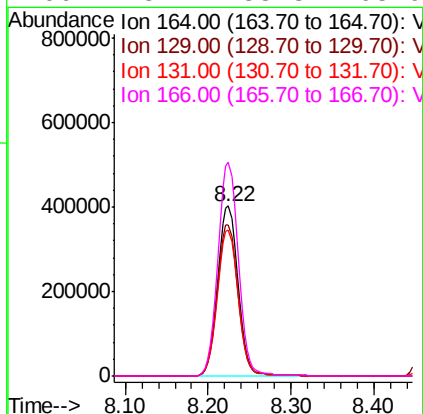
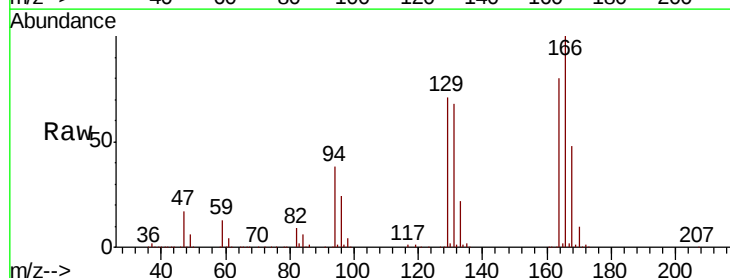
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20046

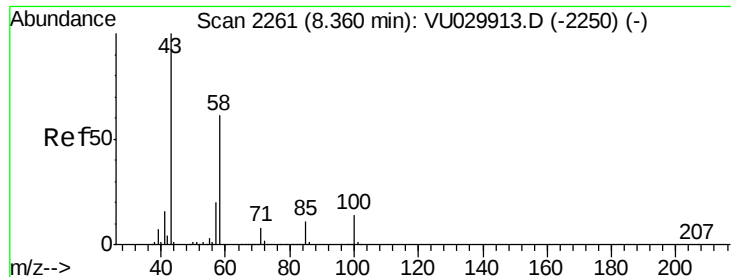
Tgt Ion:	97	Resp:	775173
Ion	Ratio	Lower	Upper
97	100		
99	63.1	43.7	81.1
83	84.3	60.8	112.8
85	54.6	38.1	70.7



#46
 Tetrachloroethene
 Concen: 191.211 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU029915.D
 Acq: 09 Mar 2019 12:51

Tgt Ion:	164	Resp:	685287
Ion	Ratio	Lower	Upper
164	100		
129	88.9	61.0	113.2
131	85.7	60.5	112.3
166	125.7	88.3	163.9



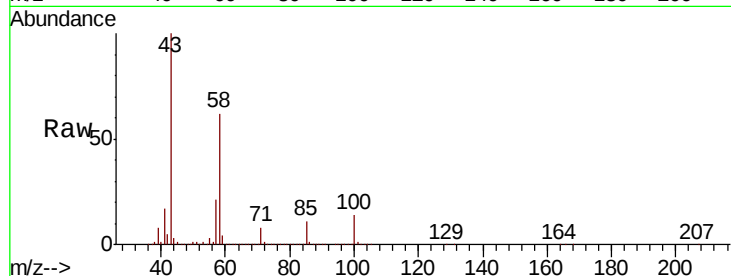


#48
2-Hexanone
Concen: 418.461 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. -0.00 min
Lab File: VU029915.D
Acq: 09 Mar 2019 12:51

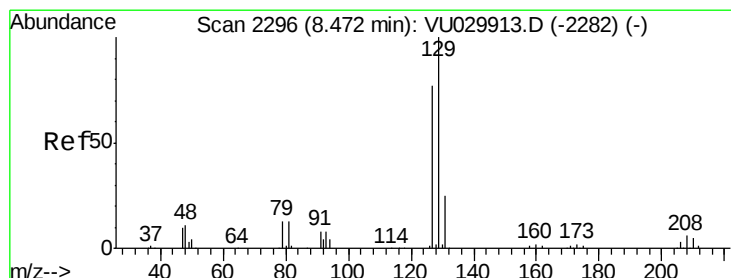
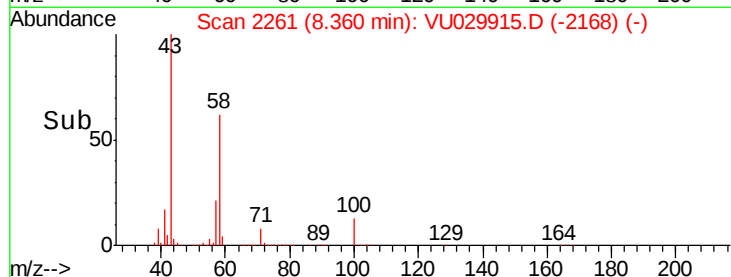
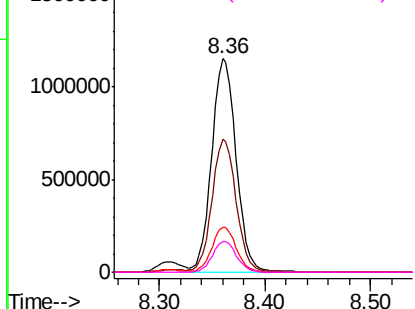
Instrument :
MSVOA_U
ClientSampleId :
VSTD20046

Tgt Ion: 43 Resp: 1852133

Ion	Ratio	Lower	Upper
43	100		
58	62.1	49.2	73.8
57	21.0	16.6	25.0
100	14.2	11.4	17.0



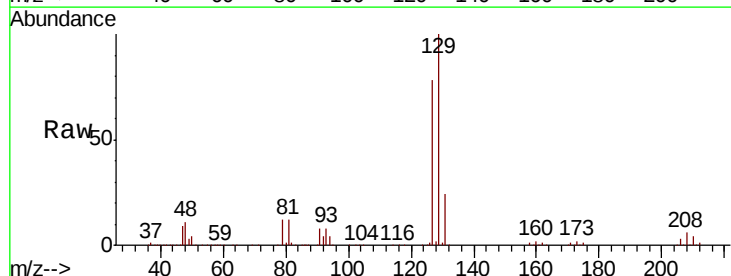
Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0



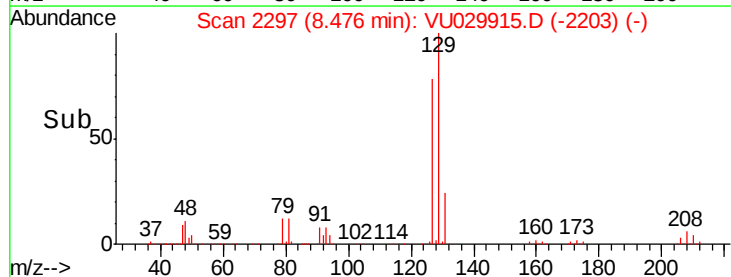
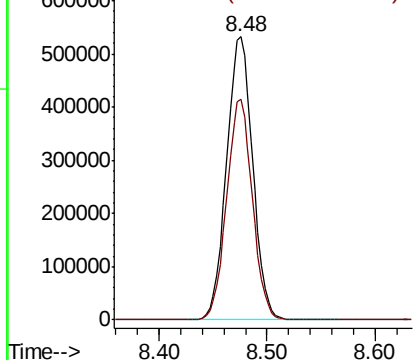
#49
Dibromochloromethane
Concen: 197.049 ug/L
RT: 8.48 min Scan# 2297
Delta R.T. 0.00 min
Lab File: VU029915.D
Acq: 09 Mar 2019 12:51

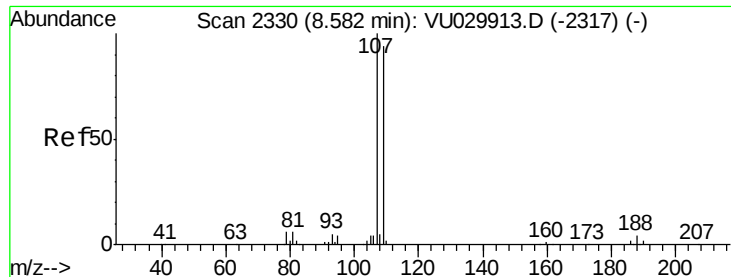
Tgt Ion: 129 Resp: 899596

Ion	Ratio	Lower	Upper
129	100		
127	77.8	54.3	100.8



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

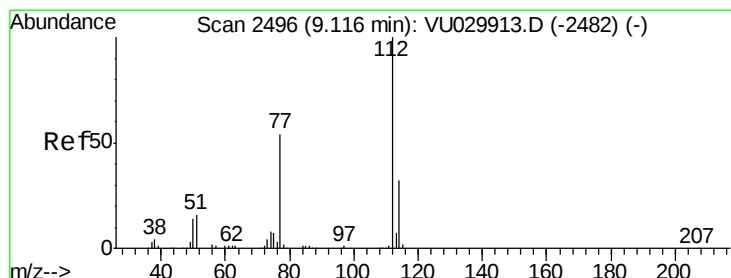
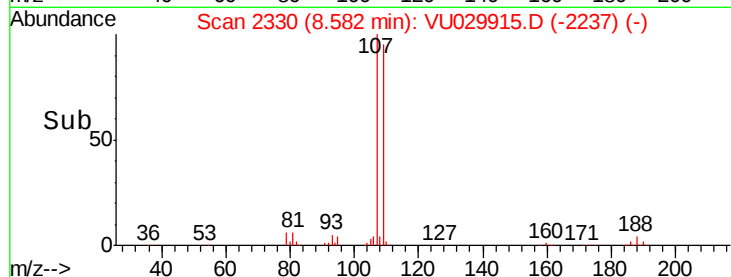
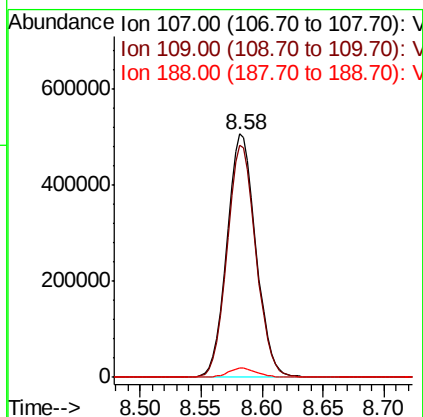
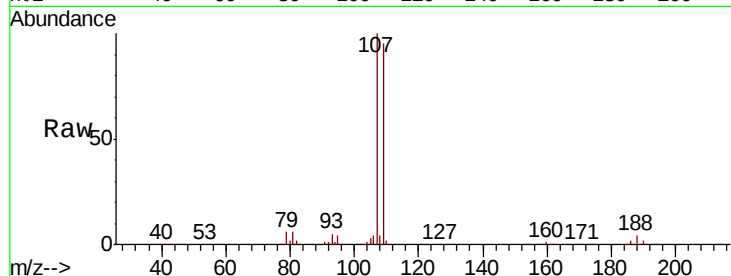




#50
1,2-Dibromoethane
Concen: 198.562 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU029915.D
Acq: 09 Mar 2019 12:51

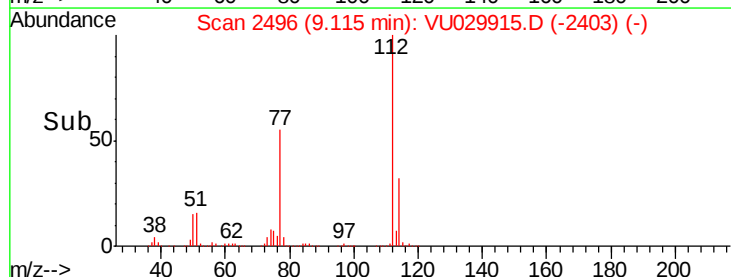
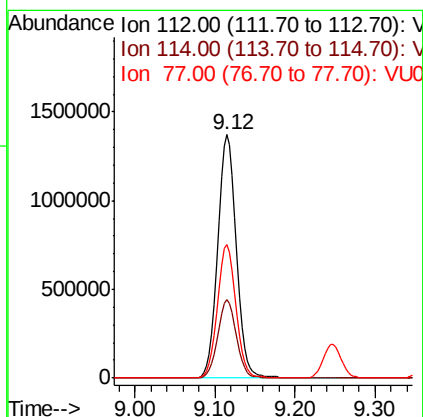
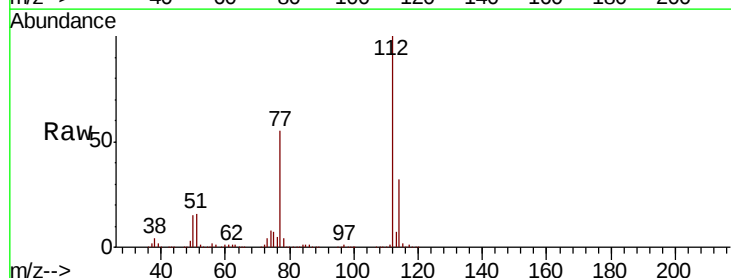
Instrument :
MSVOA_U
ClientSampleId :
VSTD20046

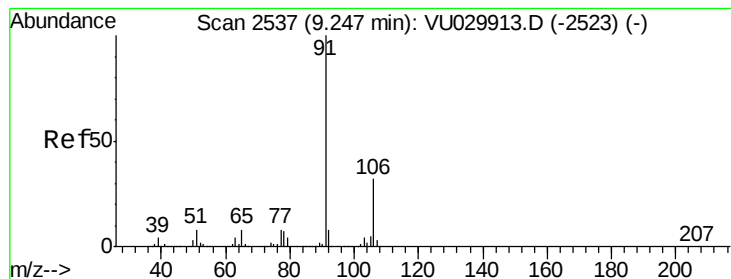
Tgt Ion:107 Resp: 842363
Ion Ratio Lower Upper
107 100
109 95.5 65.7 121.9
188 3.9 2.9 4.3



#51
Chlorobenzene
Concen: 201.005 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. -0.00 min
Lab File: VU029915.D
Acq: 09 Mar 2019 12:51

Tgt Ion:112 Resp: 2225504
Ion Ratio Lower Upper
112 100
114 32.4 22.4 41.6
77 54.9 43.5 65.3





#52

Ethylbenzene

Concen: 203.657 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU029915.D

Acq: 09 Mar 2019 12:51

Instrument :

MSVOA_U

ClientSampleId :

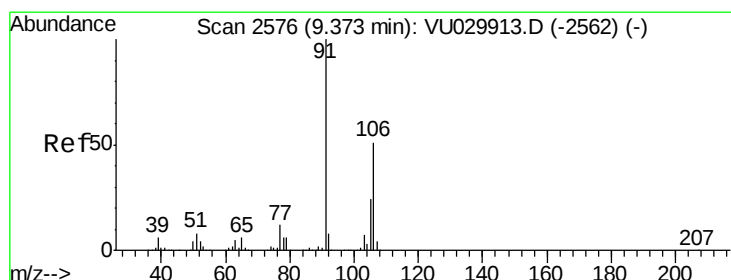
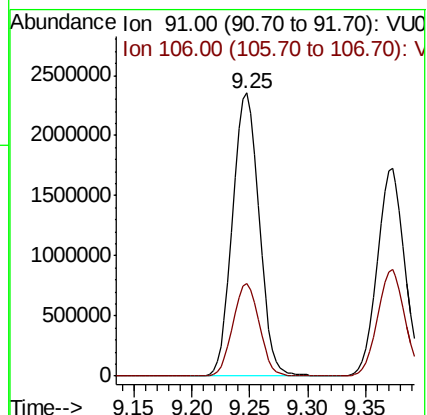
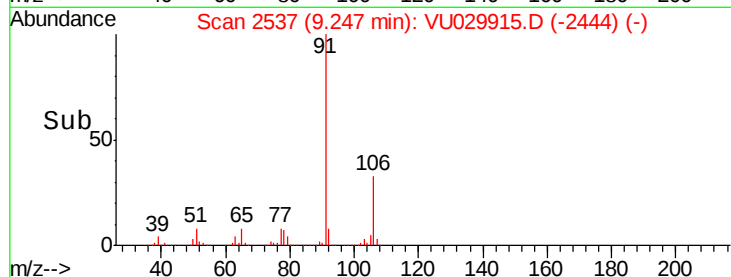
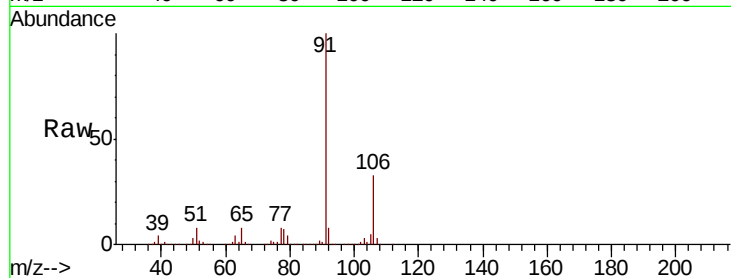
VSTD20046

Tgt Ion: 91 Resp: 3733340

Ion Ratio Lower Upper

91 100

106 32.9 22.5 41.7



#53

m,p-Xylene

Concen: 200.628 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU029915.D

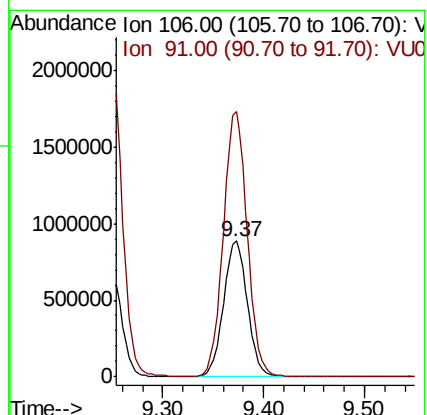
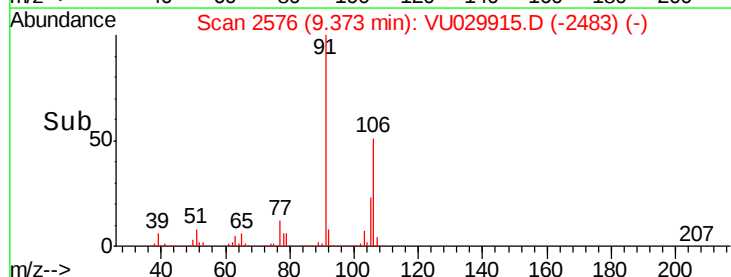
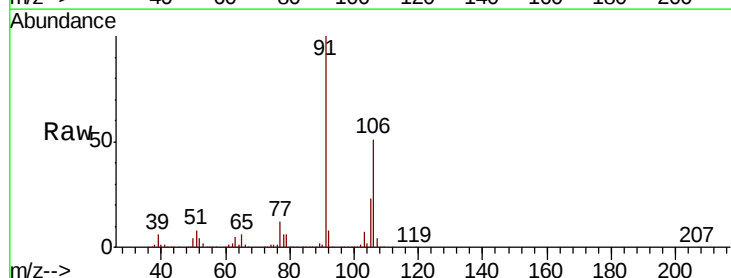
Acq: 09 Mar 2019 12:51

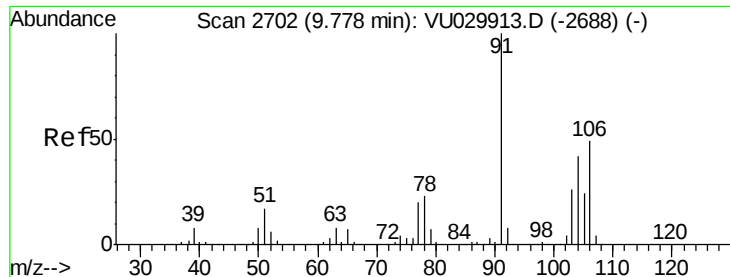
Tgt Ion: 106 Resp: 1468207

Ion Ratio Lower Upper

106 100

91 195.9 137.8 256.0





#54

o-xylene

Concen: 200.501 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. -0.00 min

Lab File: VU029915.D

Acq: 09 Mar 2019 12:51

Instrument :

MSVOA_U

ClientSampleId :

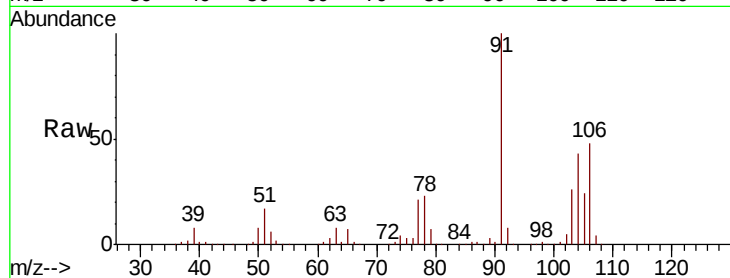
VSTD20046

Tgt Ion:106 Resp: 1470169

Ion Ratio Lower Upper

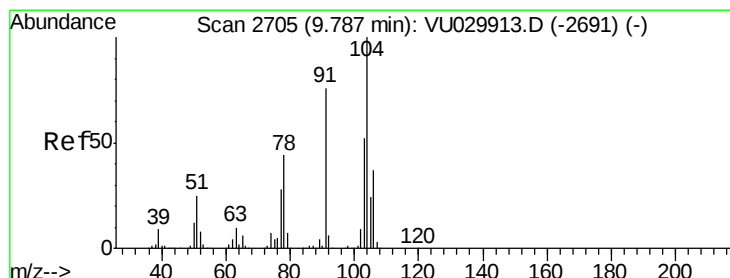
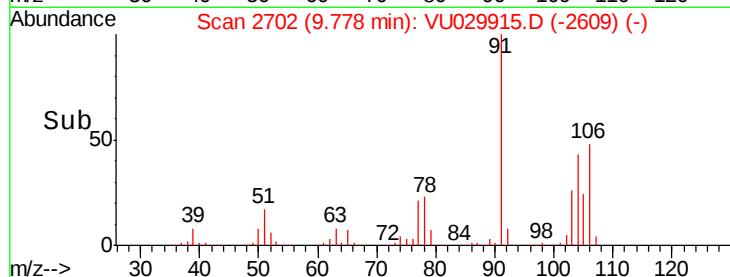
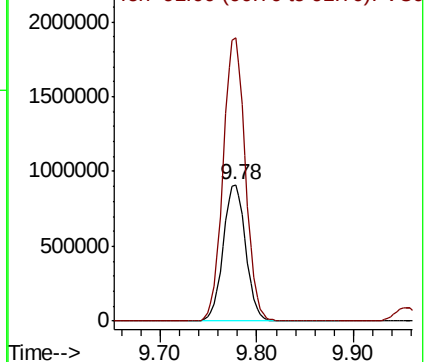
106 100

91 207.4 143.6 266.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 203.318 ug/L

RT: 9.79 min Scan# 2706

Delta R.T. 0.00 min

Lab File: VU029915.D

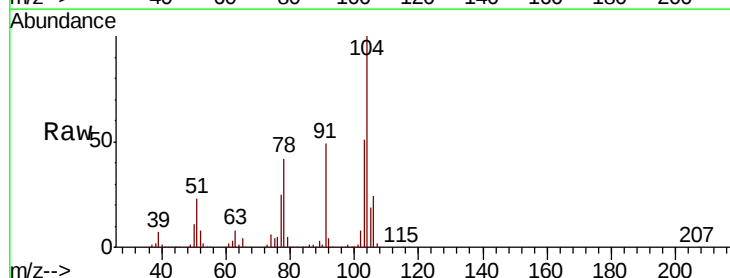
Acq: 09 Mar 2019 12:51

Tgt Ion:104 Resp: 2500539

Ion Ratio Lower Upper

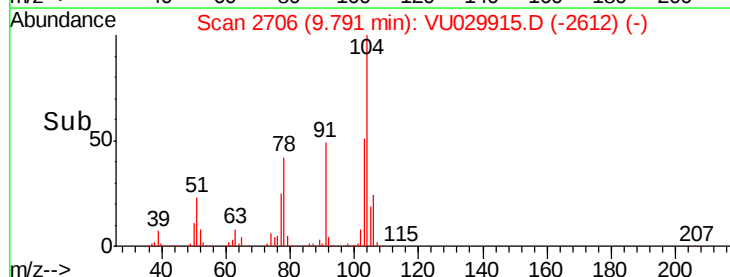
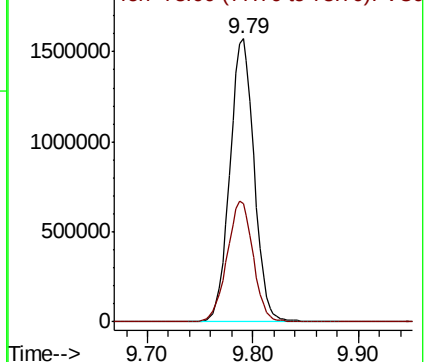
104 100

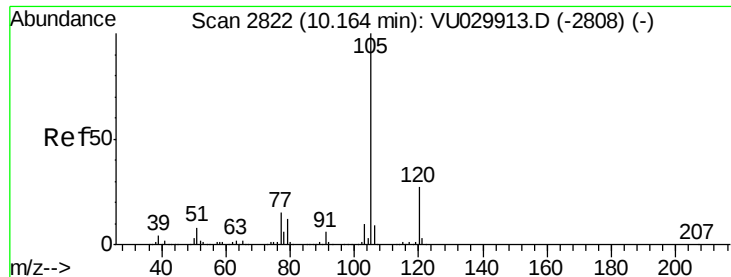
78 41.8 30.6 56.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 198.679 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU029915.D

Acq: 09 Mar 2019 12:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD20046

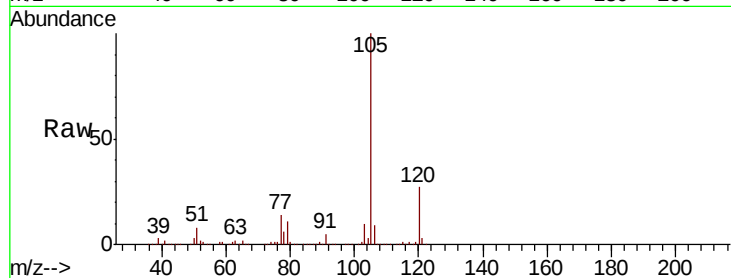
Tgt Ion:105 Resp: 3809259

Ion Ratio Lower Upper

105 100

120 27.1 21.6 32.4

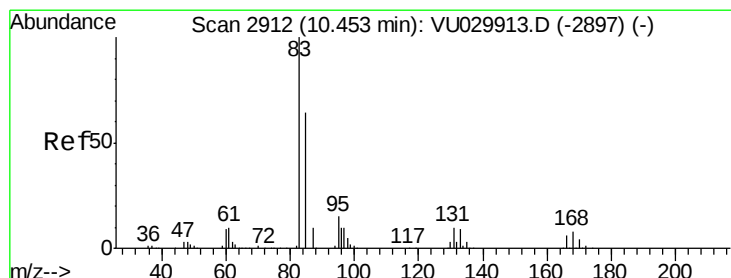
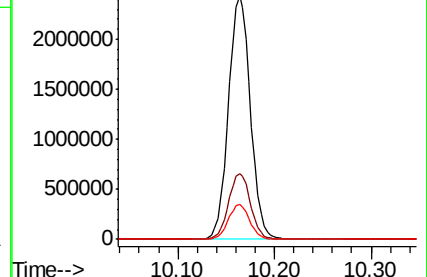
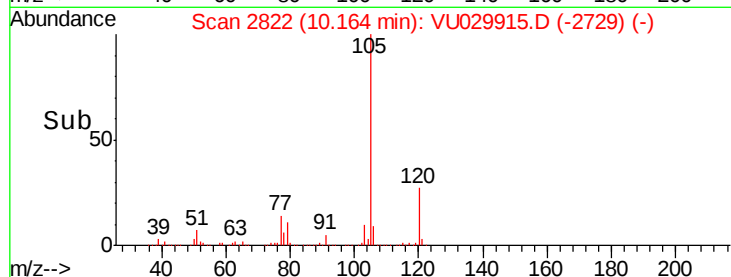
77 14.1 11.5 17.3



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: 209.912 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU029915.D

Acq: 09 Mar 2019 12:51

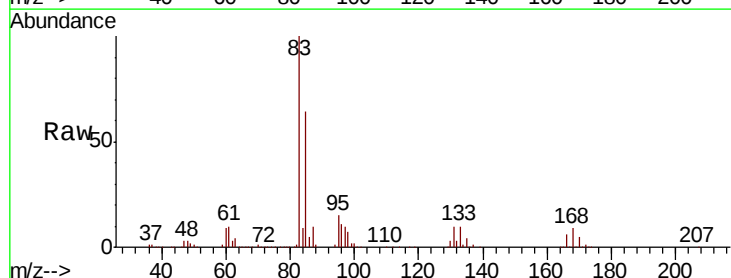
Tgt Ion: 83 Resp: 1424324

Ion Ratio Lower Upper

83 100

85 64.0 45.0 83.6

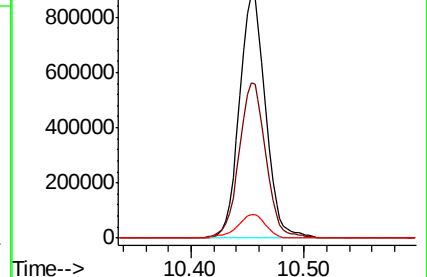
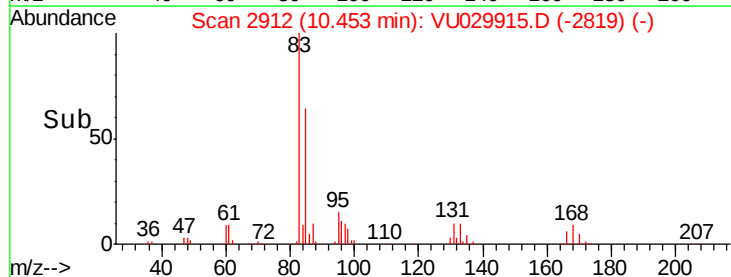
131 9.8 8.0 12.0

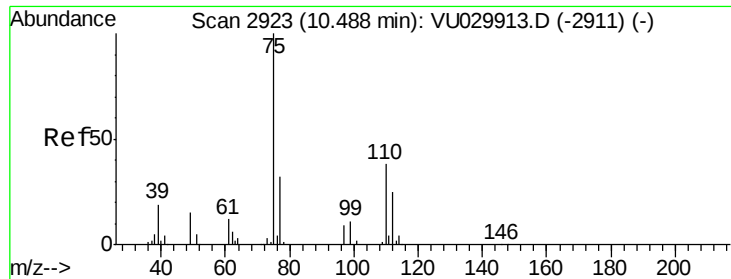


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 206.676 ug/L

RT: 10.49 min Scan# 2924

Delta R.T. 0.00 min

Lab File: VU029915.D

Acq: 09 Mar 2019 12:51

Instrument :

MSVOA_U

ClientSampleId :

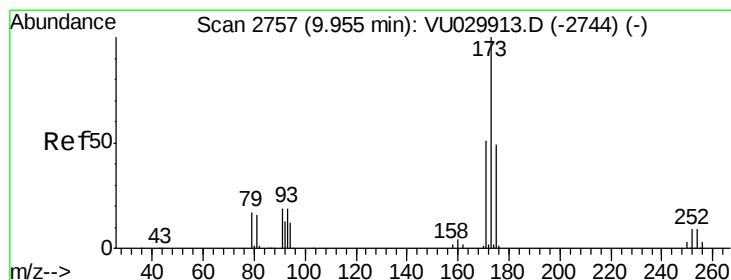
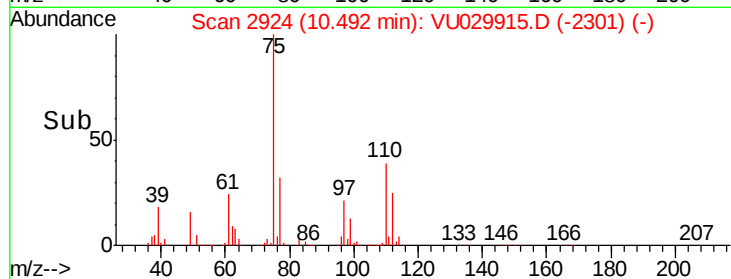
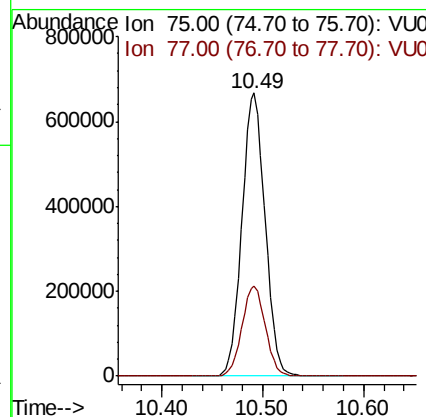
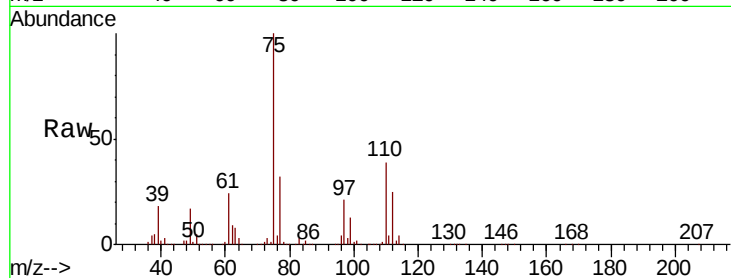
VSTD20046

Tgt Ion: 75 Resp: 1060260

Ion Ratio Lower Upper

75 100

77 32.2 26.1 39.1



#61

Bromoform

Concen: 188.755 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU029915.D

Acq: 09 Mar 2019 12:51

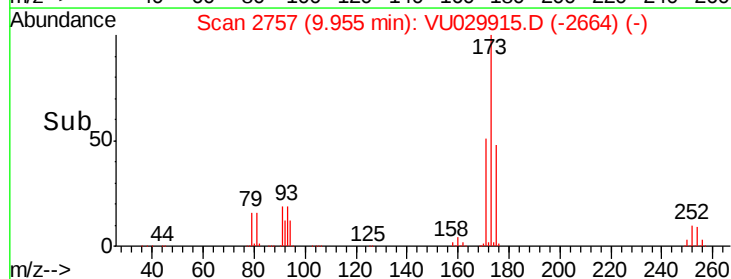
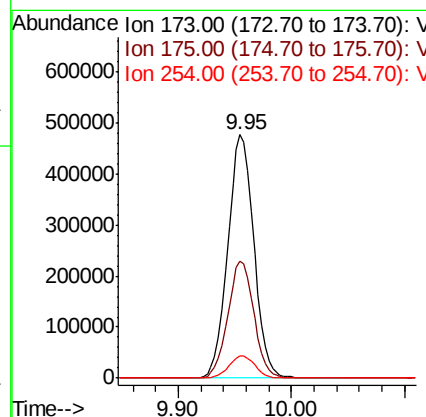
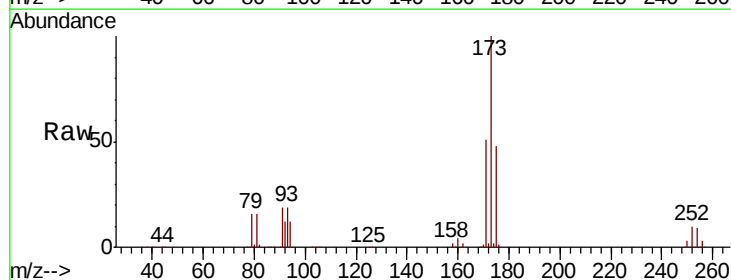
Tgt Ion: 173 Resp: 764199

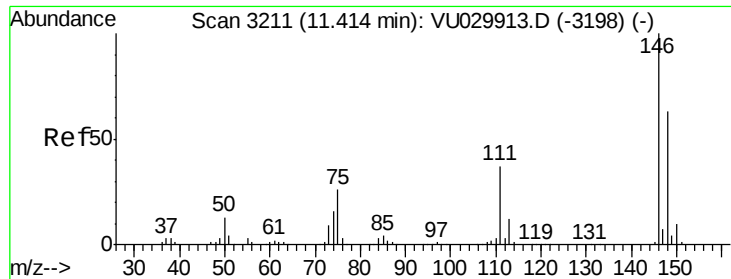
Ion Ratio Lower Upper

173 100

175 47.9 38.7 58.1

254 9.1 7.4 11.2

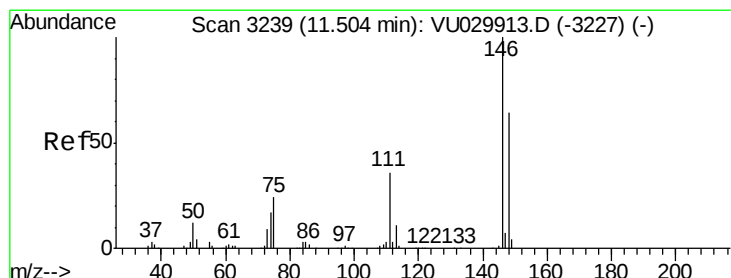
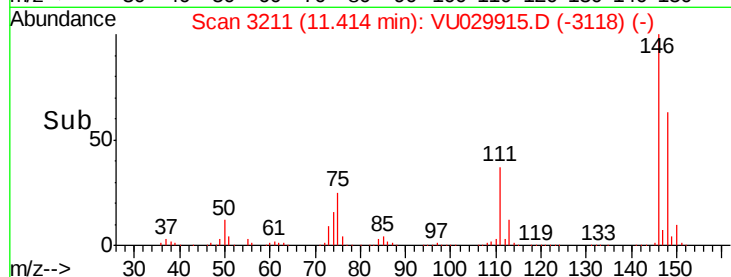
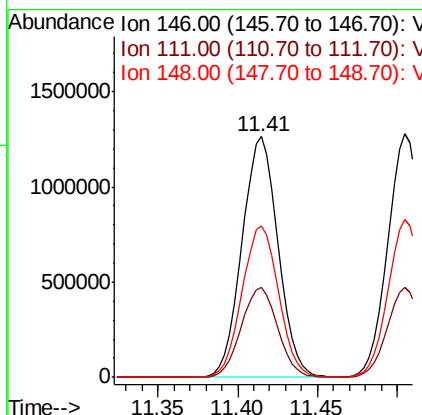
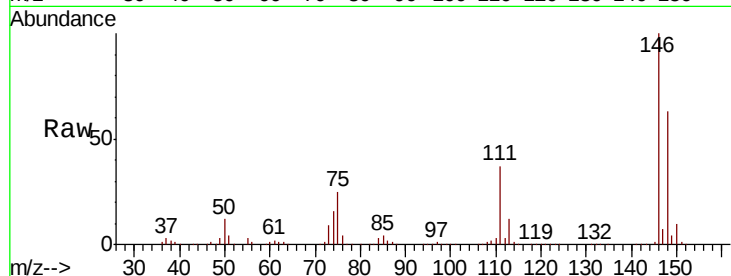




#62
 1,3-Dichlorobenzene
 Concen: 200.556 ug/L
 RT: 11.41 min Scan# 3211
 Delta R.T. 0.00 min
 Lab File: VU029915.D
 Acq: 09 Mar 2019 12:51

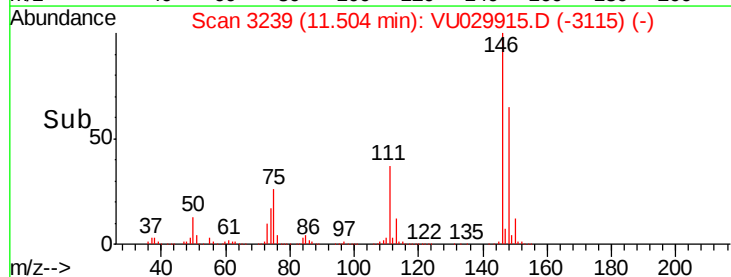
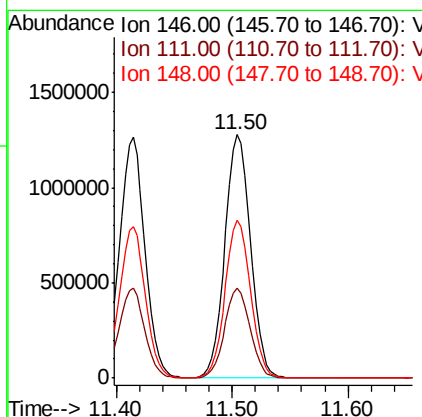
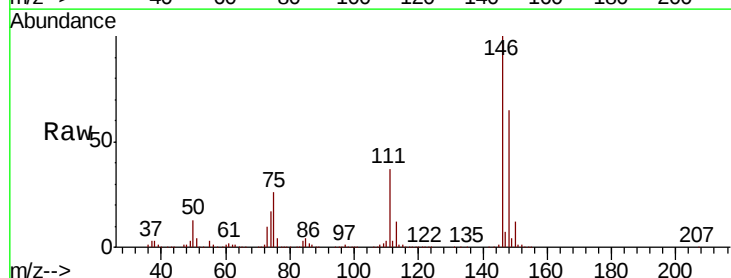
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20046

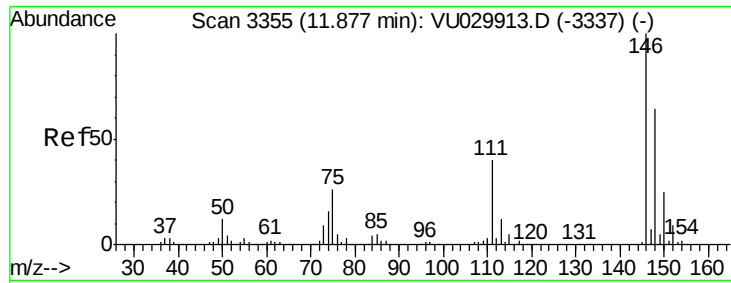
Tgt Ion:146 Resp: 1945320
 Ion Ratio Lower Upper
 146 100
 111 37.2 25.7 47.7
 148 63.1 44.2 82.0



#63
 1,4-Dichlorobenzene
 Concen: 200.545 ug/L
 RT: 11.50 min Scan# 3239
 Delta R.T. -0.00 min
 Lab File: VU029915.D
 Acq: 09 Mar 2019 12:51

Tgt Ion:146 Resp: 1960094
 Ion Ratio Lower Upper
 146 100
 111 36.8 25.3 46.9
 148 64.9 44.9 83.3





#65

1,2-Dichlorobenzene

Concen: 192.036 ug/L

RT: 11.88 min Scan# 3355

Delta R.T. 0.00 min

Lab File: VU029915.D

Acq: 09 Mar 2019 12:51

Instrument :

MSVOA_U

ClientSampleId :

VSTD20046

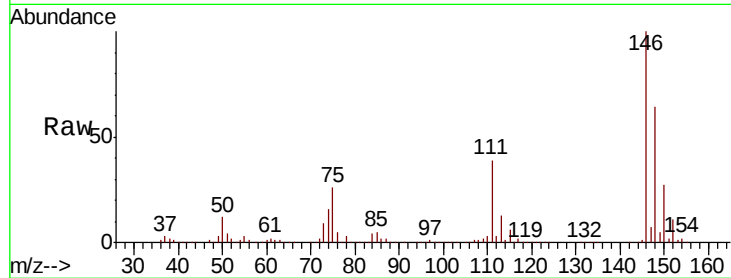
Tgt Ion:146 Resp: 1939489

Ion Ratio Lower Upper

146 100

111 39.4 31.8 47.6

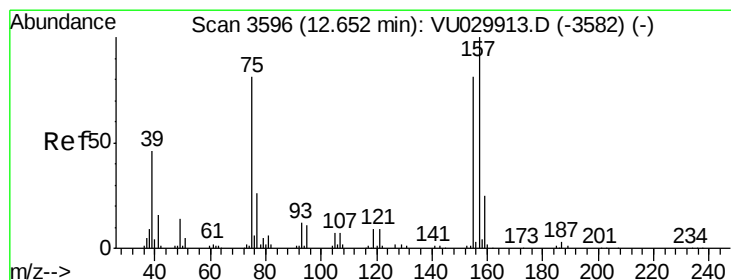
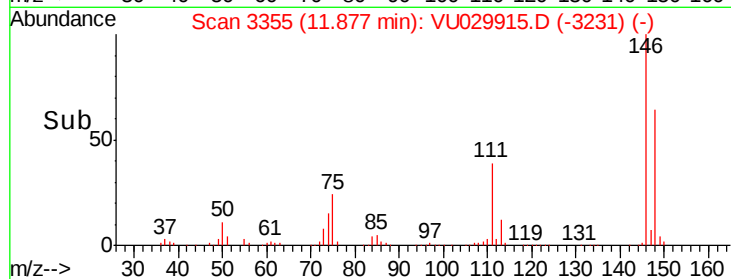
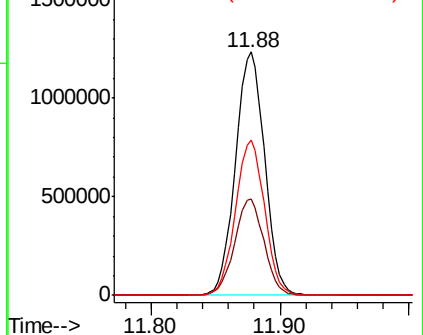
148 63.6 51.0 76.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 207.589 ug/L

RT: 12.65 min Scan# 3596

Delta R.T. -0.00 min

Lab File: VU029915.D

Acq: 09 Mar 2019 12:51

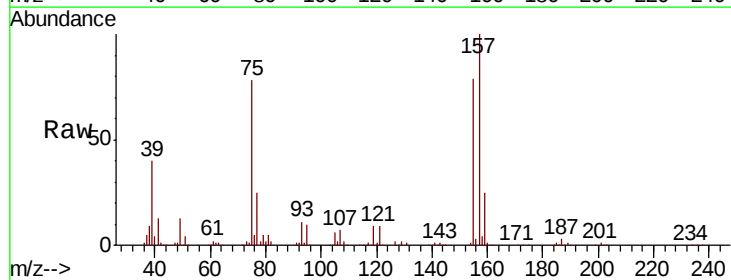
Tgt Ion: 75 Resp: 323233

Ion Ratio Lower Upper

75 100

155 101.3 79.8 119.8

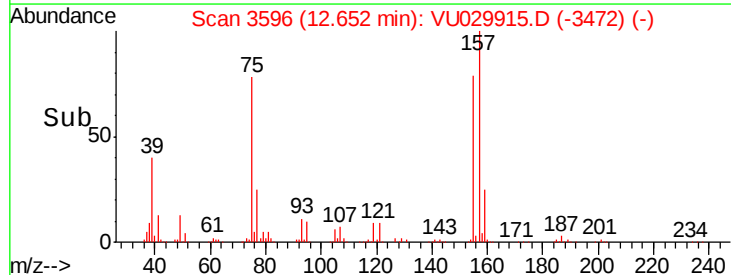
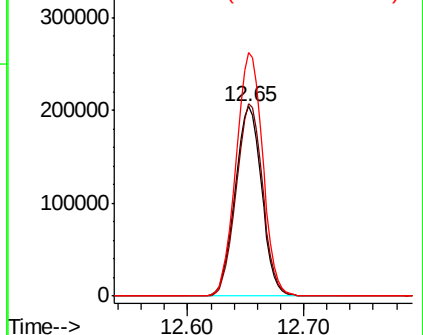
157 128.4 98.8 148.2

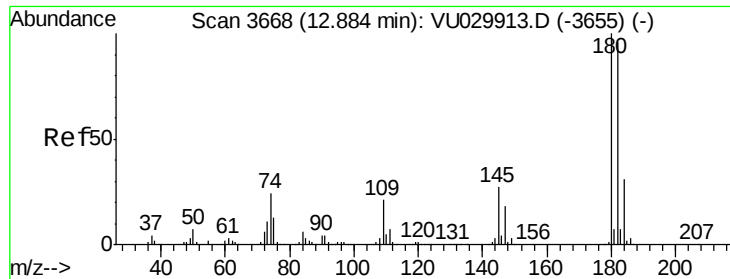


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

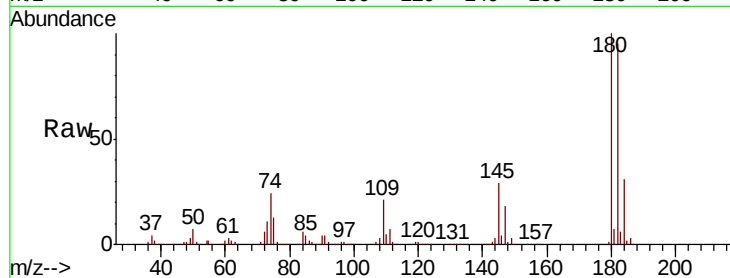




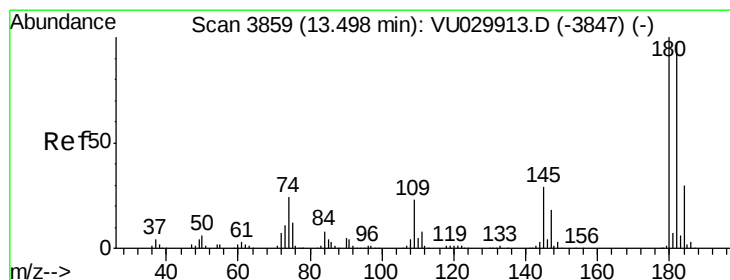
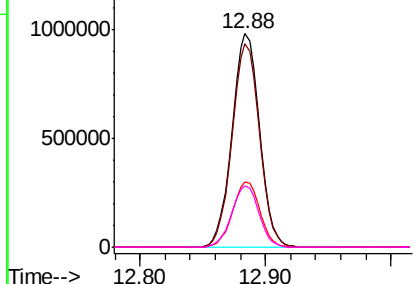
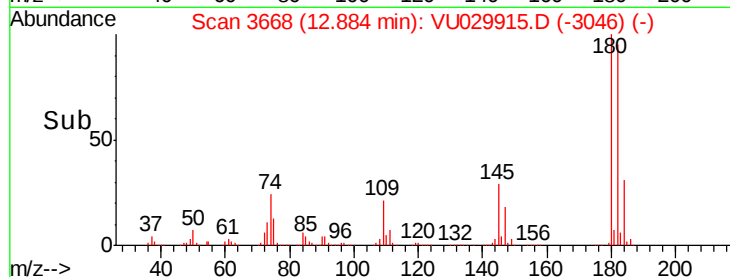
#67
 1,3,5-Trichlorobenzene
 Concen: 201.147 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. -0.00 min
 Lab File: VU029915.D
 Acq: 09 Mar 2019 12:51

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20046

Tgt Ion:180 Resp: 1488123
 Ion Ratio Lower Upper
 180 100
 182 95.2 76.7 115.1
 184 30.5 24.2 36.4
 145 28.6 22.0 33.0

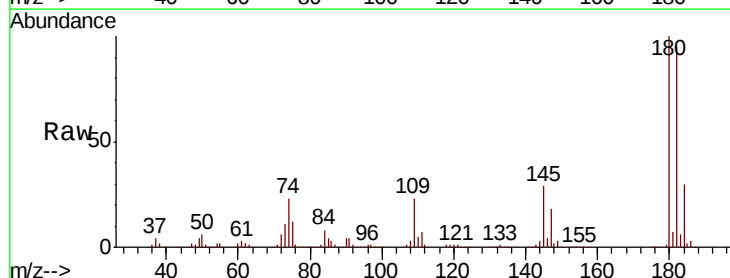


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

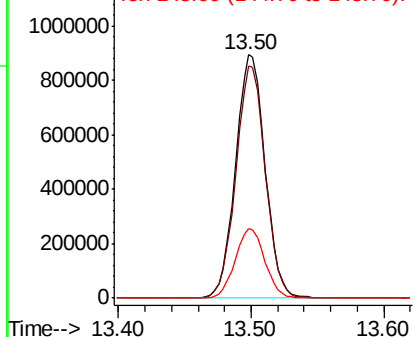
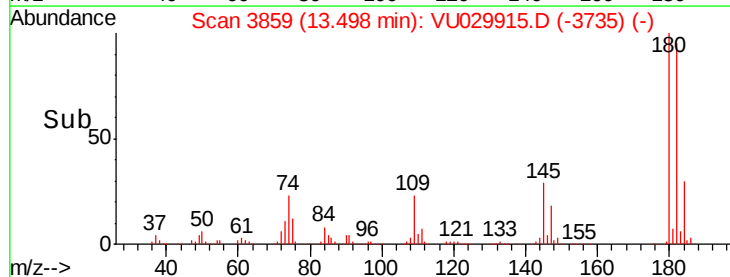


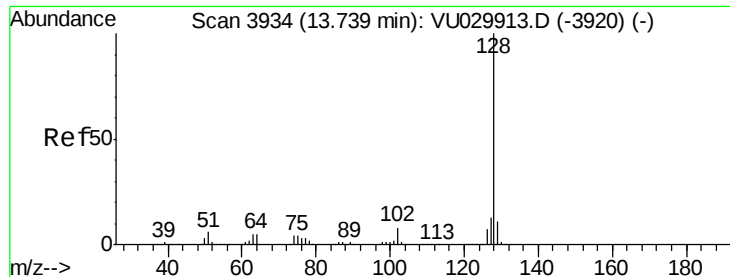
#68
 1,2,4-trichlorobenzene
 Concen: 215.031 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU029915.D
 Acq: 09 Mar 2019 12:51

Tgt Ion:180 Resp: 1382267
 Ion Ratio Lower Upper
 180 100
 182 95.3 76.0 114.0
 145 28.5 22.7 34.1



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

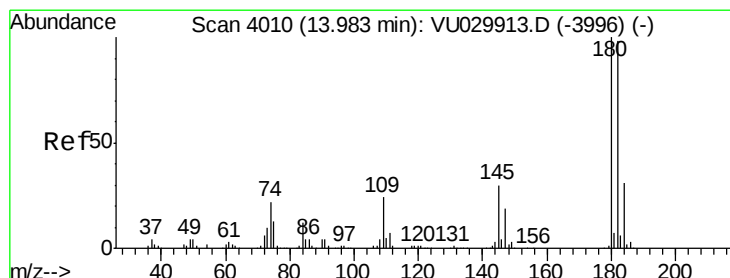
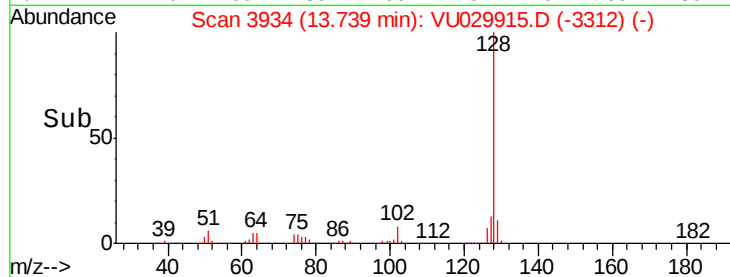
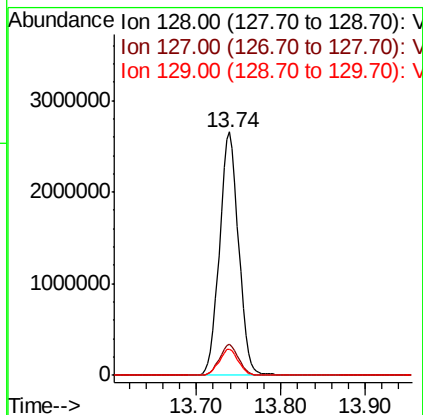
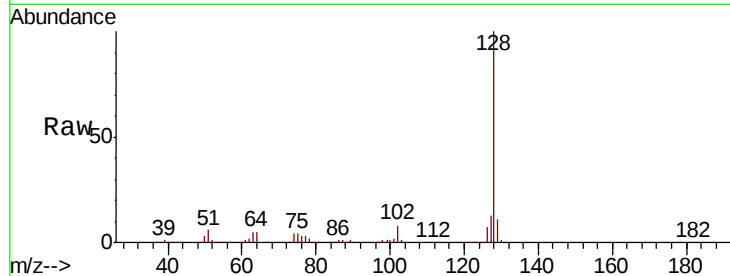




#69
Naphthalene
Concen: 212.641 ug/L
RT: 13.74 min Scan# 3934
Delta R.T. 0.00 min
Lab File: VU029915.D
Acq: 09 Mar 2019 12:51

Instrument :
MSVOA_U
ClientSampleId :
VSTD20046

Tgt Ion:128 Resp: 4173317
Ion Ratio Lower Upper
128 100
127 12.8 10.2 15.2
129 10.9 8.7 13.1



#70
1,2,3-Trichlorobenzene
Concen: 200.163 ug/L
RT: 13.98 min Scan# 4010
Delta R.T. -0.00 min
Lab File: VU029915.D
Acq: 09 Mar 2019 12:51

Tgt Ion:180 Resp: 1365577
Ion Ratio Lower Upper
180 100
182 95.9 76.3 114.5
145 30.4 24.3 36.5

