

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU031119\
 Data File : VU029913.D
 Acq On : 09 Mar 2019 12:04
 Operator : JC/SP
 Sample : VSTD05044
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05044

Quant Time: Mar 11 01:58:38 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	526406	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	524027	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	272401	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	162588	43.44	ug/L	0.00
7) Chloroethane-d5	1.68	69	134922	40.91	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	306617	42.71	ug/L	0.00
21) 2-Butanone-d5	4.17	46	259740	109.12	ug/L	0.00
24) Chloroform-d	4.64	84	315963	50.53	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	185248	47.25	ug/L	0.00
32) Benzene-d6	5.34	84	656838	49.80	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.33	67	196308	49.56	ug/L	0.00
41) Toluene-d8	7.56	98	640564	47.97	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	95201	46.11	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	217512	98.91	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	313398	47.27	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	260986	45.36	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	209358	55.943	ug/L	100
3) Chloromethane	1.33	50	265901	73.400	ug/L	100
5) Vinyl chloride	1.40	62	214561	49.902	ug/L	100
6) Bromomethane	1.62	94	56510	30.861	ug/L	100
8) Chloroethane	1.69	64	130530	46.148	ug/L	100
9) Trichlorofluoromethane	1.88	101	285914	43.059	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	172429	47.991	ug/L	100
12) 1,1-Dichloroethene	2.28	96	167871	48.974	ug/L	100
13) Acetone	2.32	43	281624	108.897	ug/L	100
14) Carbon disulfide	2.48	76	528085	56.001	ug/L	100
15) Methyl Acetate	2.61	43	198745	58.394	ug/L	100
16) Methylene chloride	2.70	84	197391	56.546	ug/L	100
17) trans-1,2-Dichloroethene	2.98	96	180124	54.616	ug/L	100
18) Methyl tert-butyl Ether	3.00	73	441712	45.313	ug/L	100
19) 1,1-Dichloroethane	3.44	63	310315	54.286	ug/L	100
20) cis-1,2-Dichloroethene	4.22	96	203710	53.261	ug/L	100
22) 2-Butanone	4.26	43	335499	113.276	ug/L	100
23) Bromochloromethane	4.55	128	103269	50.429	ug/L	100
25) Chloroform	4.67	83	328398	52.041	ug/L	100
27) 1,2-Dichloroethane	5.40	62	238086	49.867	ug/L	100
29) Cyclohexane	4.99	56	279379	52.770	ug/L	100
30) 1,1,1-Trichloroethane	4.91	97	279477	50.085	ug/L	100
31) Carbon tetrachloride	5.13	117	243042	48.460	ug/L	100
33) Benzene	5.39	78	732884	53.527	ug/L	100
34) Trichloroethene	6.18	95	190314	52.036	ug/L	100
35) Methylcyclohexane	6.41	83	314168	51.556	ug/L	100
37) 1,2-Dichloropropane	6.43	63	187987	52.600	ug/L	100
38) Bromodichloromethane	6.75	83	240336	50.351	ug/L	100
39) cis-1,3-Dichloropropene	7.27	75	288892	50.843	ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	506375	101.639	ug/L	100

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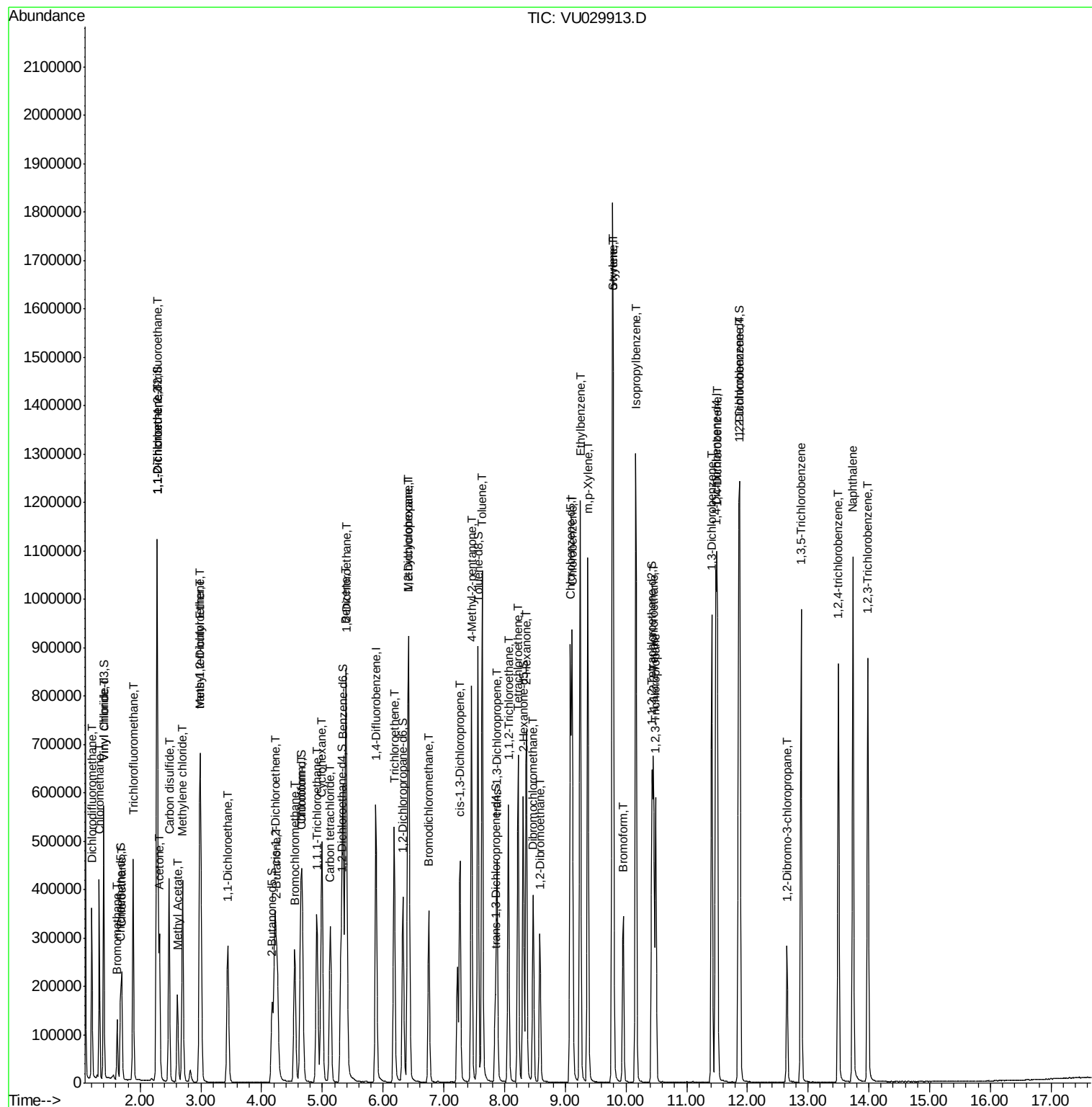
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.63	91	810189	50.694	ug/L	100
44) trans-1,3-Dichloropropene	7.87	75	264100	49.503	ug/L	100
45) 1,1,2-Trichloroethane	8.06	97	190437	50.498	ug/L	100
46) Tetrachloroethene	8.22	164	168635	47.933	ug/L	100
48) 2-Hexanone	8.36	43	434910	100.099	ug/L	100
49) Dibromochloromethane	8.47	129	207500	46.301	ug/L	100
50) 1,2-Dibromoethane	8.58	107	208752	50.127	ug/L	100
51) Chlorobenzene	9.12	112	532465	48.991	ug/L	100
52) Ethylbenzene	9.25	91	883475	49.095	ug/L	100
53) m,p-Xylene	9.37	106	339249	47.225	ug/L	100
54) o-xylene	9.78	106	340127	47.254	ug/L	100
55) Styrene	9.79	104	552819	45.790	ug/L	100
56) Isopropylbenzene	10.16	105	882057	46.865	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	330589	49.632	ug/L	100
59) 1,2,3-Trichloropropane	10.49	75	251301	49.902	ug/L	100
61) Bromoform	9.95	173	166920	46.062	ug/L	100
62) 1,3-Dichlorobenzene	11.41	146	429438	49.464	ug/L	100
63) 1,4-Dichlorobenzene	11.50	146	434363	49.651	ug/L	100
65) 1,2-Dichlorobenzene	11.88	146	436368	48.272	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.65	75	67624	48.521	ug/L	100
67) 1,3,5-Trichlorobenzene	12.88	180	325579	49.167	ug/L	100
68) 1,2,4-trichlorobenzene	13.50	180	294596	51.201	ug/L	100
69) Naphthalene	13.74	128	908151	51.697	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	304234	49.822	ug/L	100

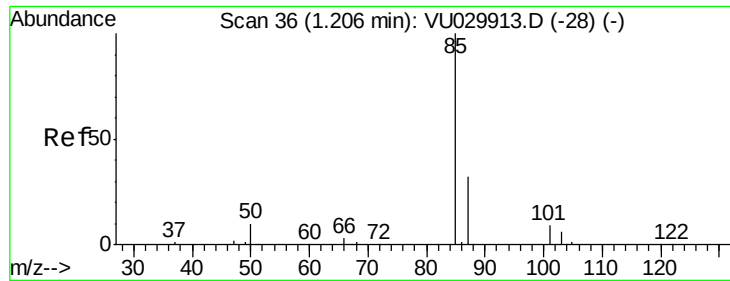
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 55.943 ug/L

RT: 1.21 min Scan# 36

Delta R.T. 0.00 min

Lab File: VU029913.D

Acq: 09 Mar 2019 12:04

Instrument :

MSVOA_U

ClientSampleId :

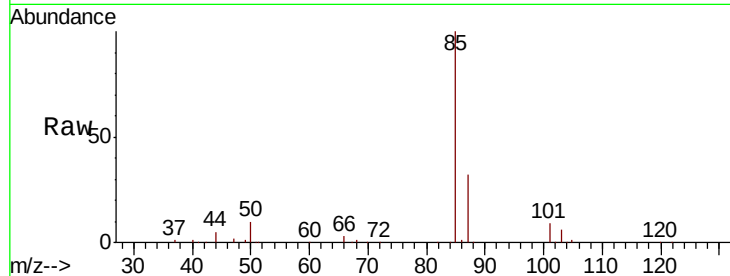
VSTD05044

Tgt Ion: 85 Resp: 209358

Ion Ratio Lower Upper

85 100

87 32.3 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

1.21

200000

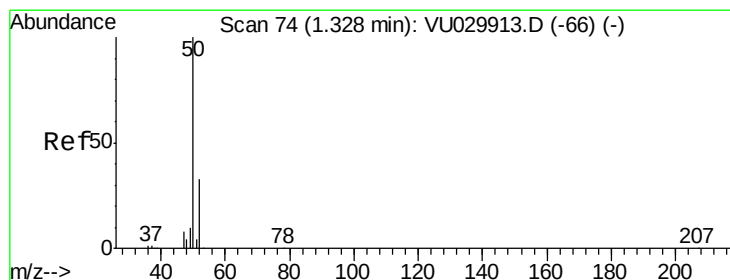
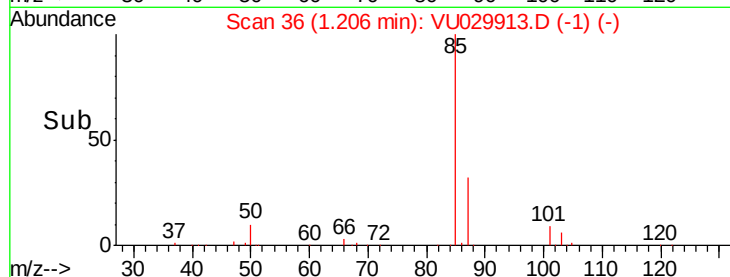
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 73.400 ug/L

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU029913.D

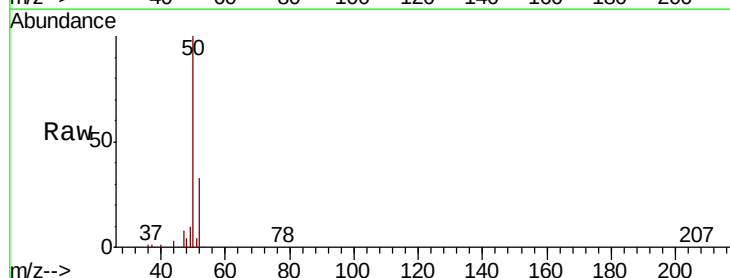
Acq: 09 Mar 2019 12:04

Tgt Ion: 50 Resp: 265901

Ion Ratio Lower Upper

50 100

52 33.0 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0

1.33

300000

250000

200000

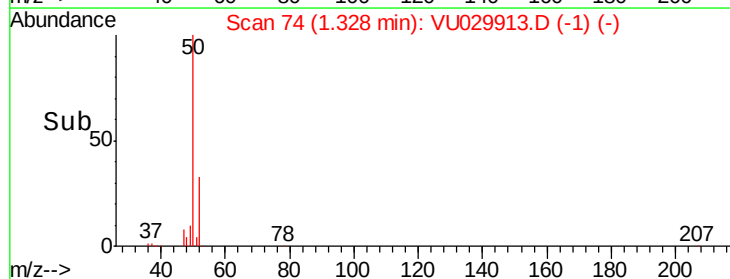
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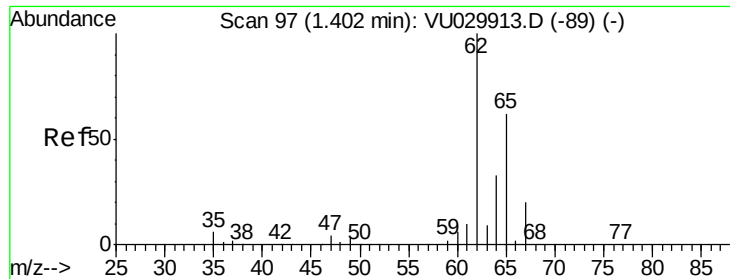
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 49.902 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU029913.D

Acq: 09 Mar 2019 12:04

Instrument :

MSVOA_U

ClientSampleId :

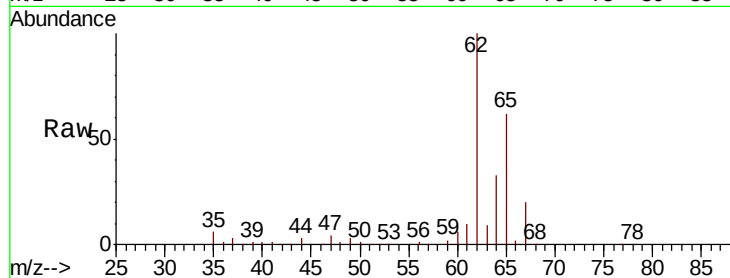
VSTD05044

Tgt Ion: 62 Resp: 214561

Ion Ratio Lower Upper

62 100

64 33.0 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

250000

200000

150000

100000

50000

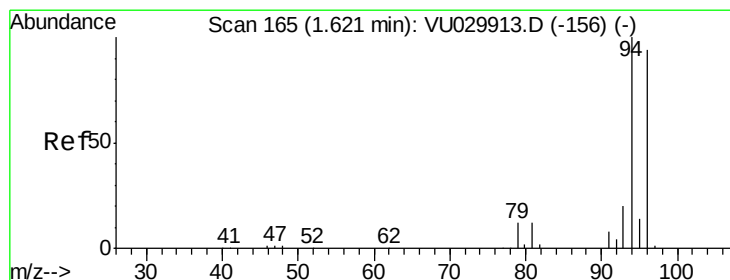
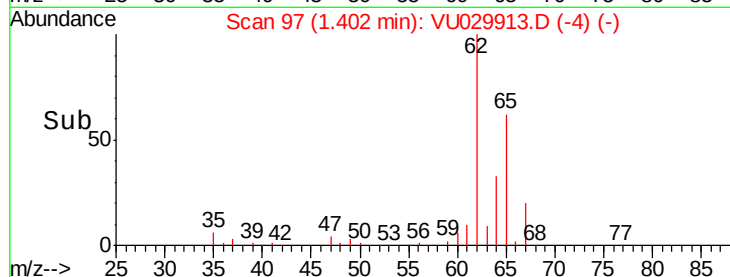
0

1.35

1.40

1.45

Time-->



#6

Bromomethane

Concen: 30.861 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU029913.D

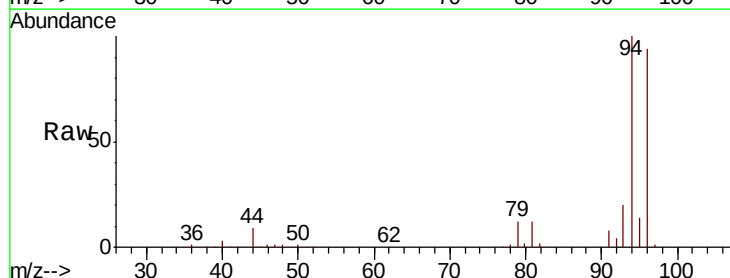
Acq: 09 Mar 2019 12:04

Tgt Ion: 94 Resp: 56510

Ion Ratio Lower Upper

94 100

96 93.8 65.7 121.9



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

50000

40000

30000

20000

10000

0

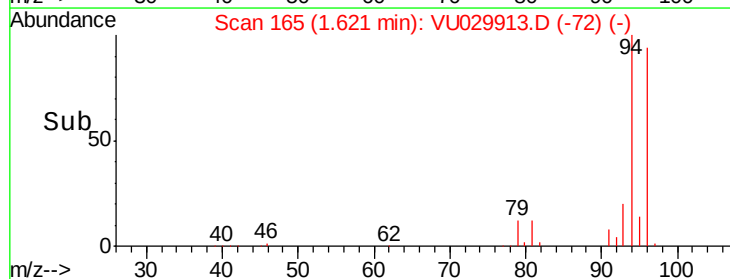
1.55

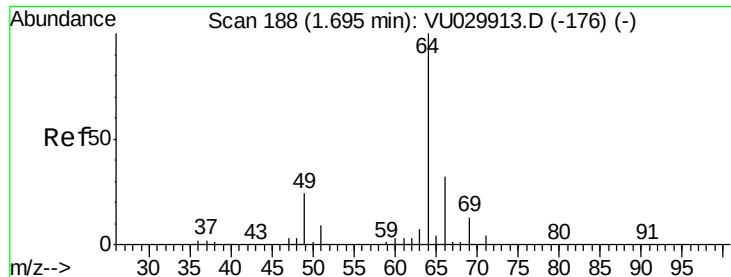
1.60

1.65

1.70

Time-->





#8

Chloroethane

Concen: 46.148 ug/L

RT: 1.69 min Scan# 188

Delta R.T. 0.00 min

Lab File: VU029913.D

Acq: 09 Mar 2019 12:04

Instrument :

MSVOA_U

ClientSampled :

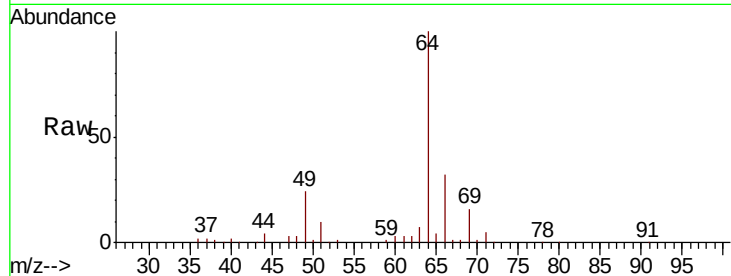
VSTD05044

Tgt Ion: 64 Resp: 130530

Ion Ratio Lower Upper

64 100

66 32.1 22.5 41.7



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0

1.69

100000

80000

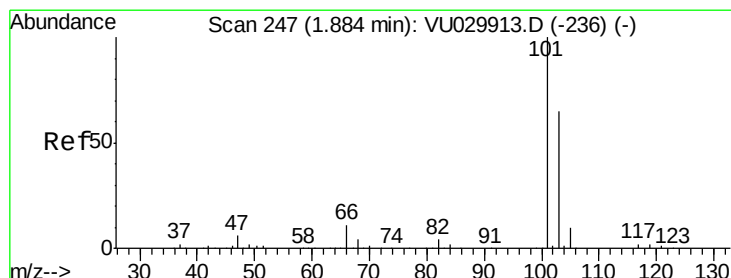
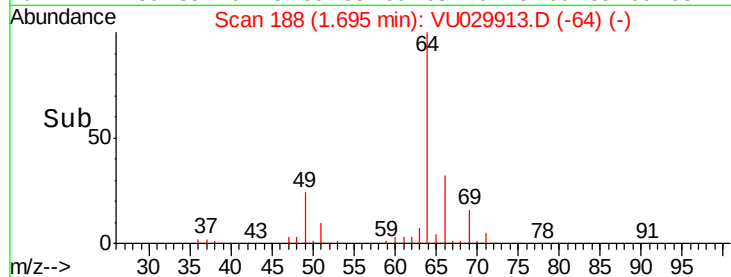
60000

40000

20000

0

Time-->



#9

Trichlorofluoromethane

Concen: 43.059 ug/L

RT: 1.88 min Scan# 247

Delta R.T. 0.00 min

Lab File: VU029913.D

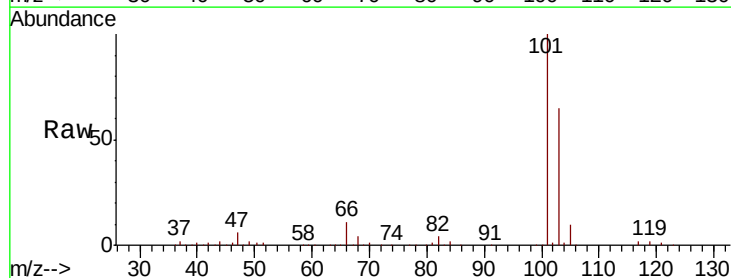
Acq: 09 Mar 2019 12:04

Tgt Ion: 101 Resp: 285914

Ion Ratio Lower Upper

101 100

103 64.3 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

1.88

200000

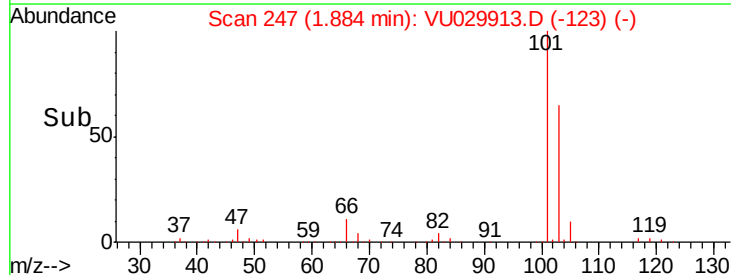
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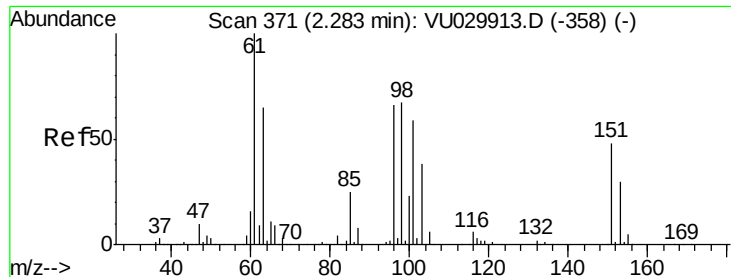
100000

50000

0

Time-->





#10

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

Concen: 47.991 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU029913.D

Acq: 09 Mar 2019 12:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

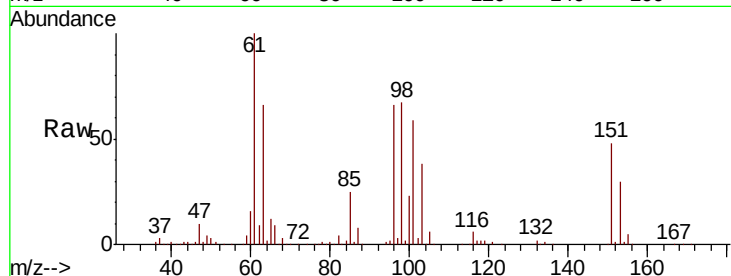
Tgt Ion: 101 Resp: 172429

Ion Ratio Lower Upper

101 100

85 41.8 33.4 50.2

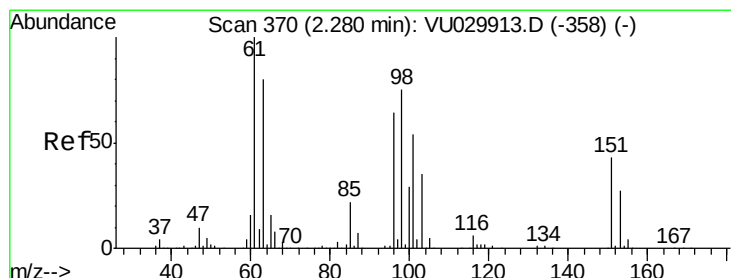
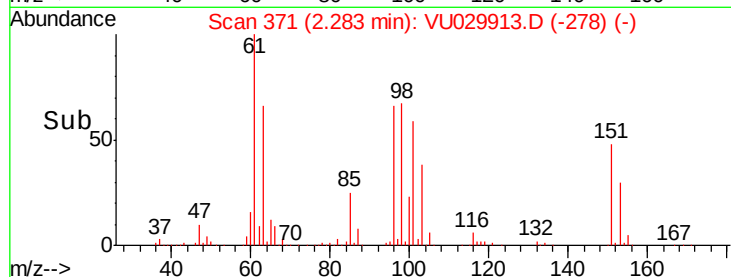
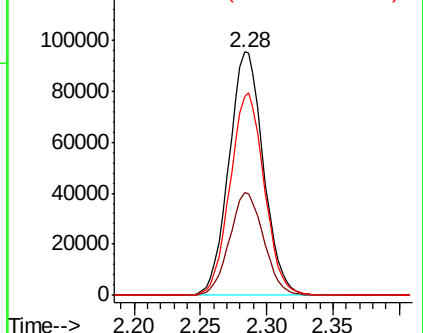
151 82.2 65.8 98.6



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: 48.974 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU029913.D

Acq: 09 Mar 2019 12:04

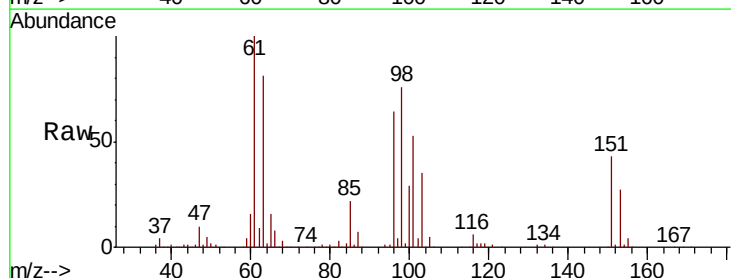
Tgt Ion: 96 Resp: 167871

Ion Ratio Lower Upper

96 100

61 155.7 109.0 202.4

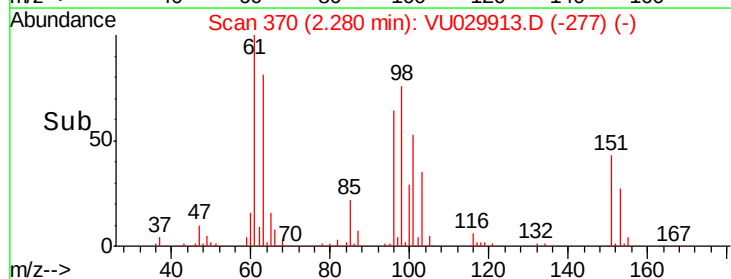
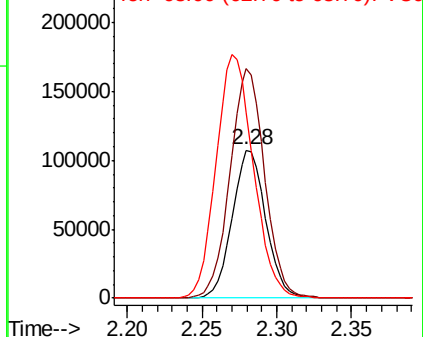
63 125.8 88.1 163.5

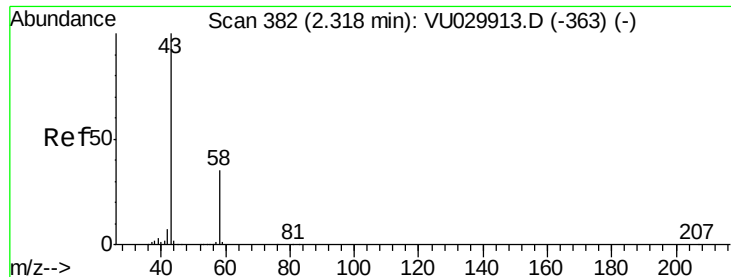


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 108.897 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

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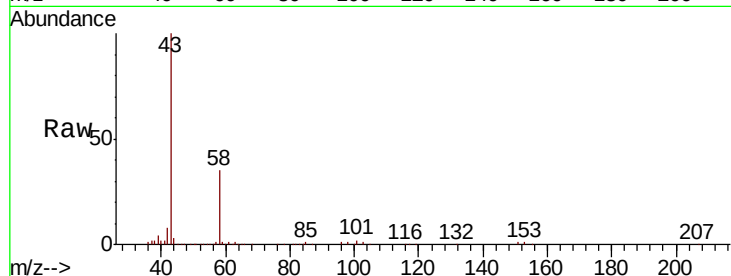
VSTD05044

Tgt Ion: 43 Resp: 281624

Ion Ratio Lower Upper

43 100

58 35.1 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

200000

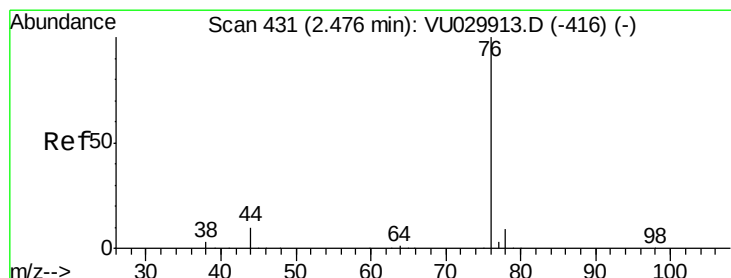
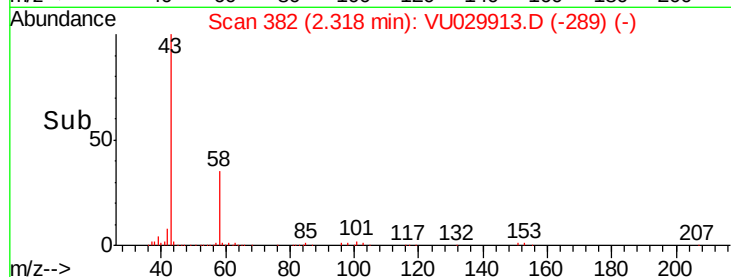
150000

100000

50000

0

Time--> 2.20 2.30 2.40



#14

Carbon disulfide

Concen: 56.001 ug/L

RT: 2.48 min Scan# 431

Delta R.T. 0.00 min

Lab File: VU029913.D

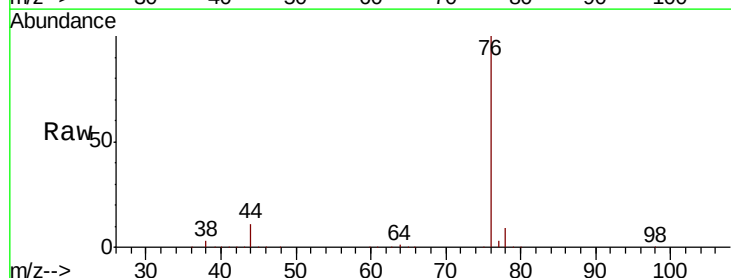
Acq: 09 Mar 2019 12:04

Tgt Ion: 76 Resp: 528085

Ion Ratio Lower Upper

76 100

78 9.4 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) (-)

2.48

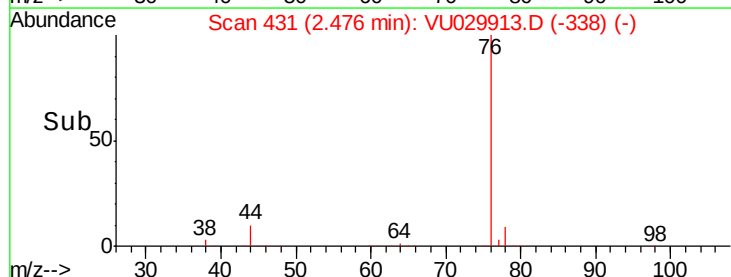
300000

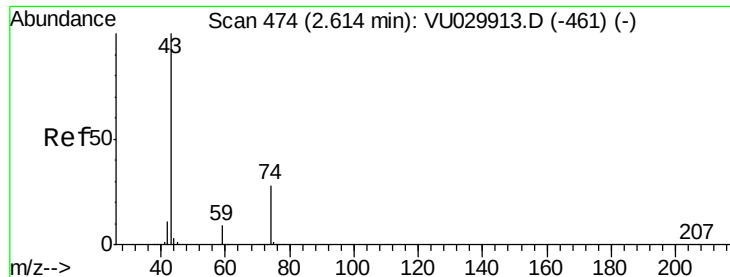
200000

100000

0

Time--> 2.40 2.50 2.60

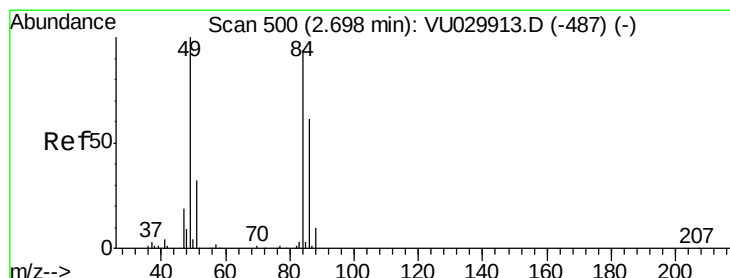
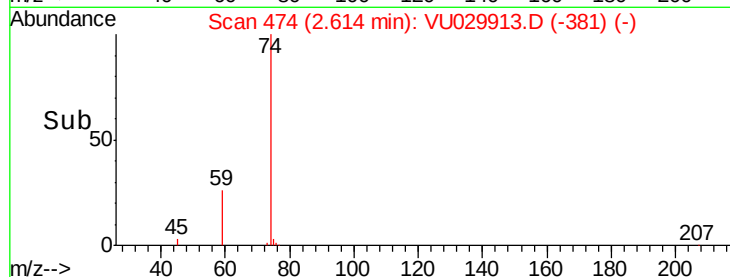
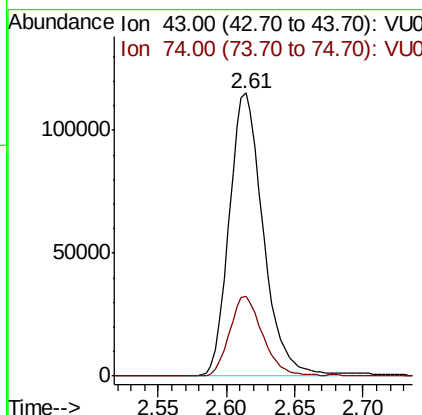
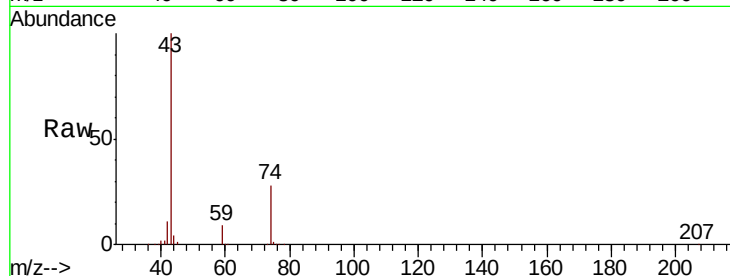




#15
Methyl Acetate
Concen: 58.394 ug/L
RT: 2.61 min Scan# 474
Delta R.T. 0.00 min
Lab File: VU029913.D
Acq: 09 Mar 2019 12:04

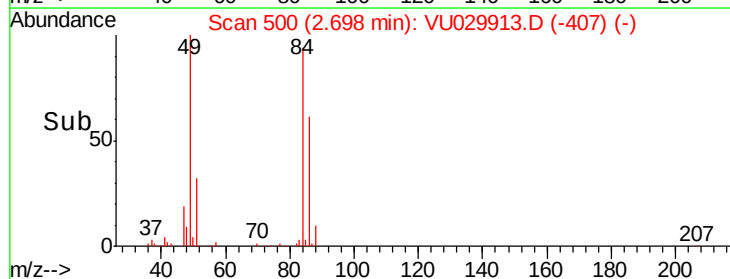
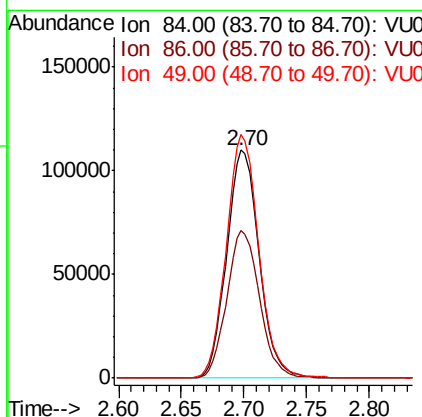
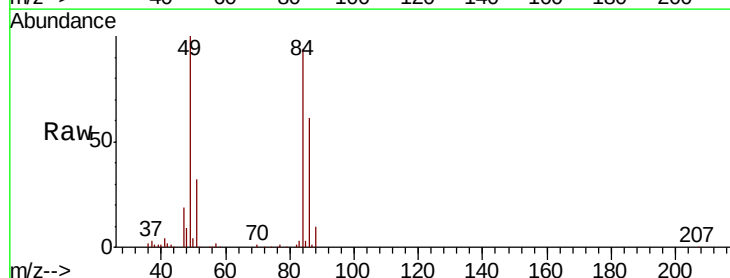
Instrument :
MSVOA_U
ClientSampleId :
VSTD05044

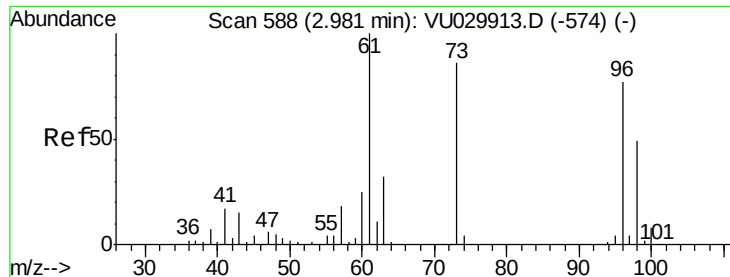
Tgt Ion: 43 Resp: 198745
Ion Ratio Lower Upper
43 100
74 27.6 22.1 33.1



#16
Methylene chloride
Concen: 56.546 ug/L
RT: 2.70 min Scan# 500
Delta R.T. 0.00 min
Lab File: VU029913.D
Acq: 09 Mar 2019 12:04

Tgt Ion: 84 Resp: 197391
Ion Ratio Lower Upper
84 100
86 64.7 45.3 84.1
49 106.9 74.8 139.0

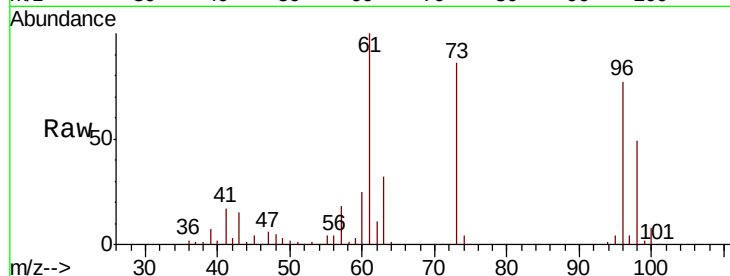




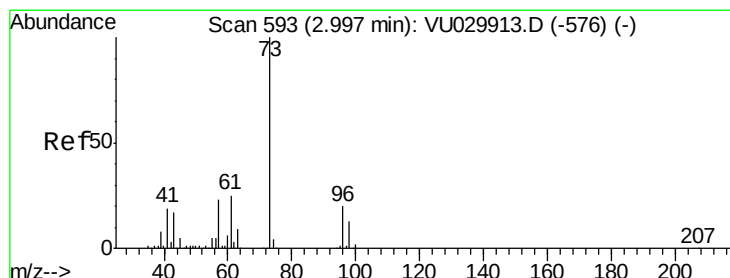
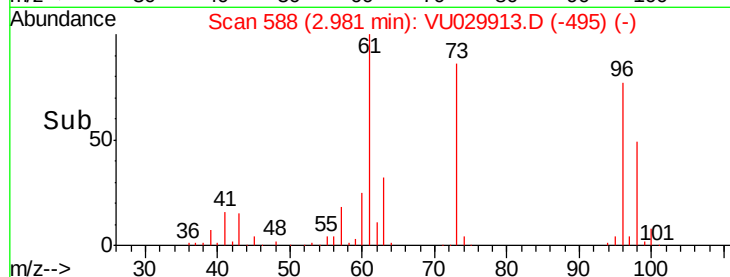
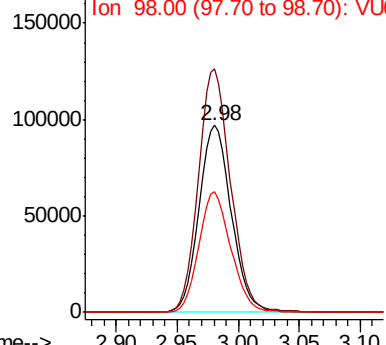
#17
 trans-1,2-Dichloroethene
 Concen: 54.616 ug/L
 RT: 2.98 min Scan# 588
 Delta R.T. 0.00 min
 Lab File: VU029913.D
 Acq: 09 Mar 2019 12:04

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05044

Tgt Ion: 96 Resp: 180124
 Ion Ratio Lower Upper
 96 100
 61 130.2 91.1 169.3
 98 64.3 45.0 83.6

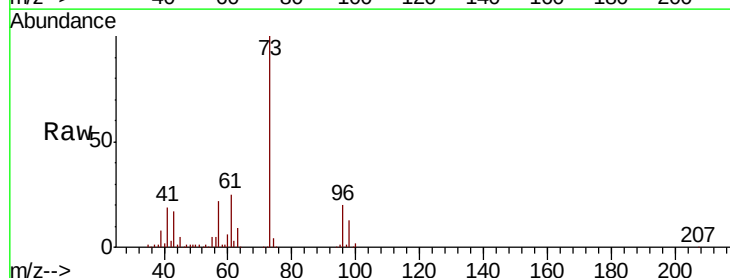


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0

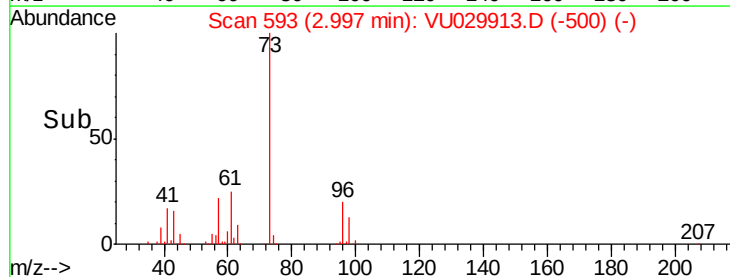
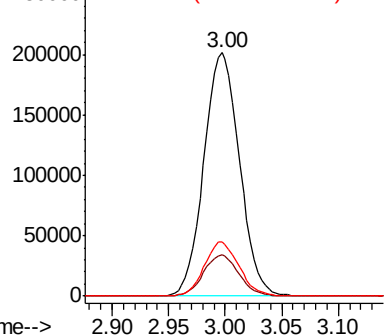


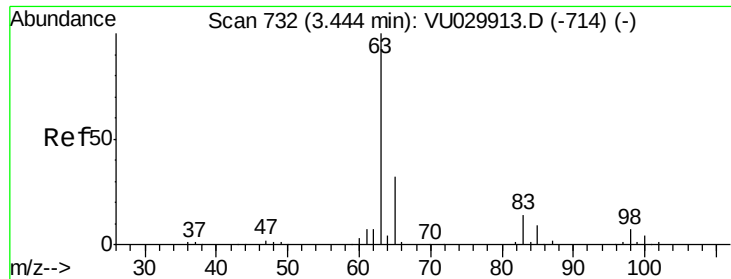
#18
 Methyl tert-butyl Ether
 Concen: 45.313 ug/L
 RT: 3.00 min Scan# 593
 Delta R.T. 0.00 min
 Lab File: VU029913.D
 Acq: 09 Mar 2019 12:04

Tgt Ion: 73 Resp: 441712
 Ion Ratio Lower Upper
 73 100
 43 16.9 13.5 20.3
 57 21.7 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

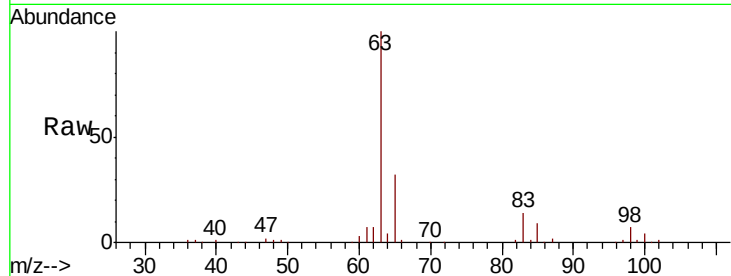




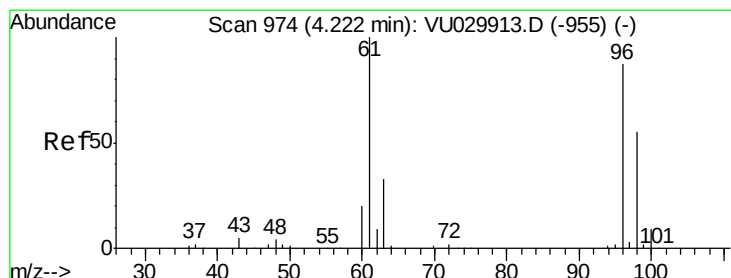
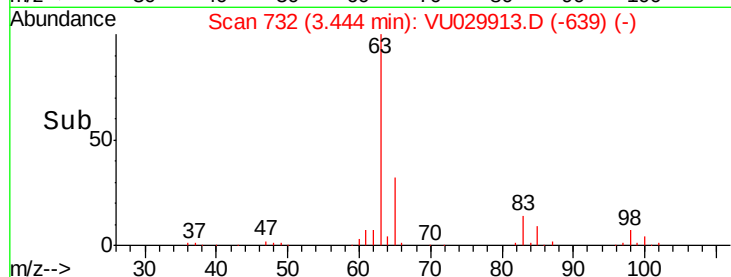
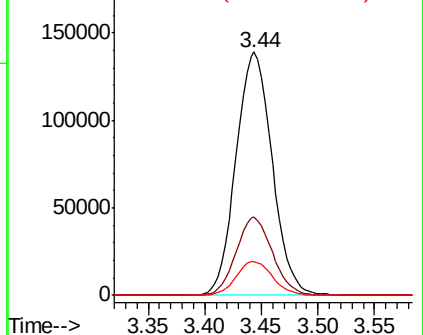
#19
 1,1-Dichloroethane
 Concen: 54.286 ug/L
 RT: 3.44 min Scan# 732
 Delta R.T. 0.00 min
 Lab File: VU029913.D
 Acq: 09 Mar 2019 12:04

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05044

Tgt Ion: 63 Resp: 310315
 Ion Ratio Lower Upper
 63 100
 65 32.0 22.4 41.6
 83 13.9 9.7 18.1

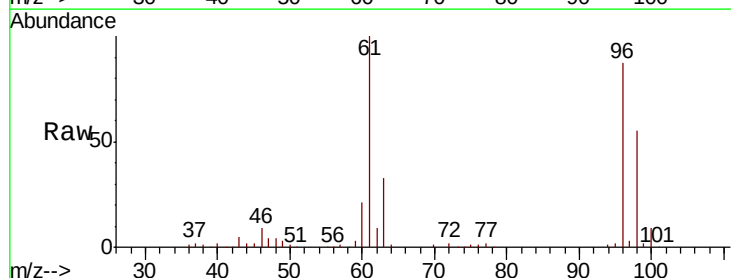


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

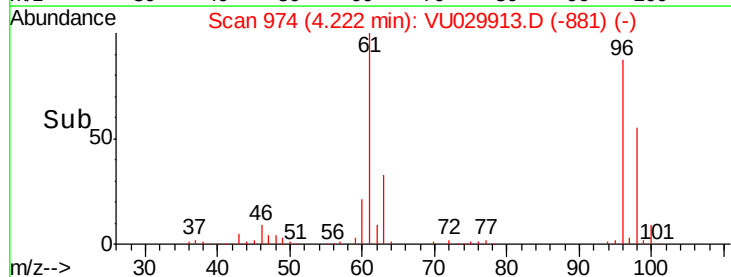
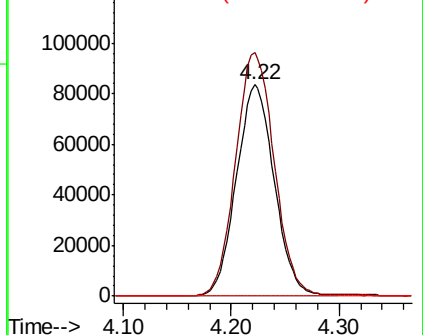


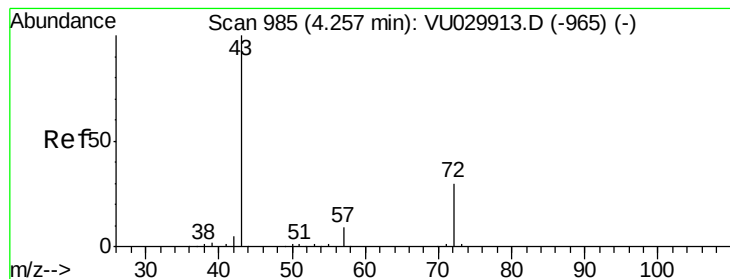
#20
 cis-1,2-Dichloroethene
 Concen: 53.261 ug/L
 RT: 4.22 min Scan# 974
 Delta R.T. 0.00 min
 Lab File: VU029913.D
 Acq: 09 Mar 2019 12:04

Tgt Ion: 96 Resp: 203710
 Ion Ratio Lower Upper
 96 100
 61 115.2 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: 113.276 ug/L

RT: 4.26 min Scan# 985

Delta R.T. 0.00 min

Lab File: VU029913.D

Acq: 09 Mar 2019 12:04

Instrument :

MSVOA_U

ClientSampleId :

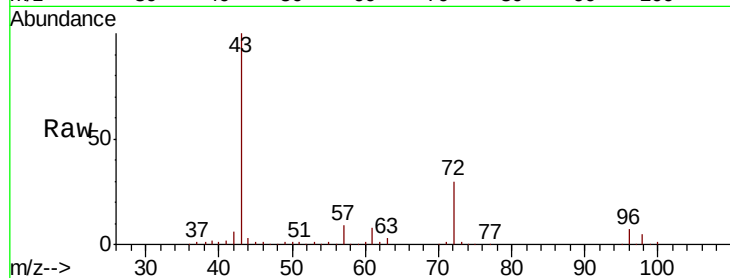
VSTD05044

Tgt Ion: 43 Resp: 335499

Ion Ratio Lower Upper

43 100

72 30.9 15.4 46.4



Abundance Ion 43.00 (42.70 to 43.70): VU029913.D (-965) (-)

Ion 72.00 (71.70 to 72.70): VU029913.D (-965) (-)

4.26

150000

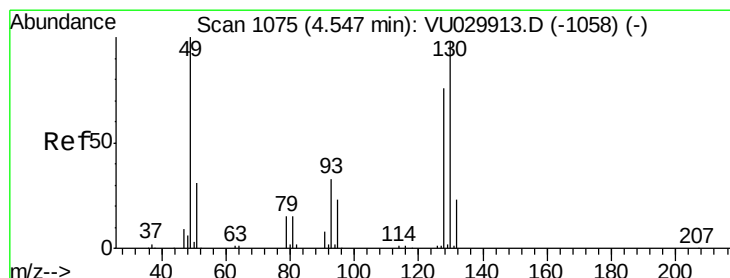
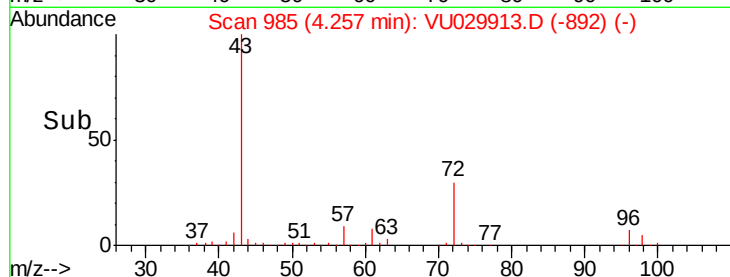
100000

50000

0

4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 50.429 ug/L

RT: 4.55 min Scan# 1075

Delta R.T. 0.00 min

Lab File: VU029913.D

Acq: 09 Mar 2019 12:04

Tgt Ion: 128 Resp: 103269

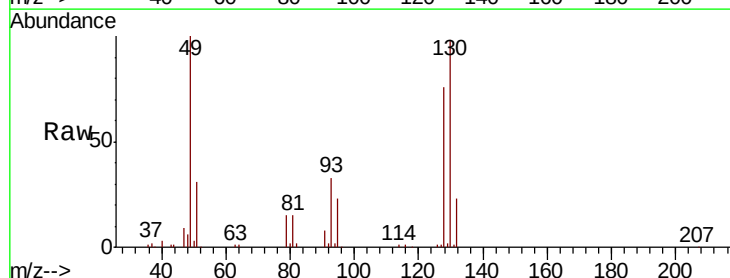
Ion Ratio Lower Upper

128 100

49 131.7 92.2 171.2

130 129.2 90.4 168.0

51 41.3 33.0 49.6



Abundance Ion 128.00 (127.70 to 128.70): VU029913.D (-1058) (-)

Ion 49.00 (48.70 to 49.70): VU029913.D (-1058) (-)

Ion 130.00 (129.70 to 130.70): VU029913.D (-1058) (-)

Ion 51.00 (50.70 to 51.70): VU029913.D (-1058) (-)

4.55

80000

60000

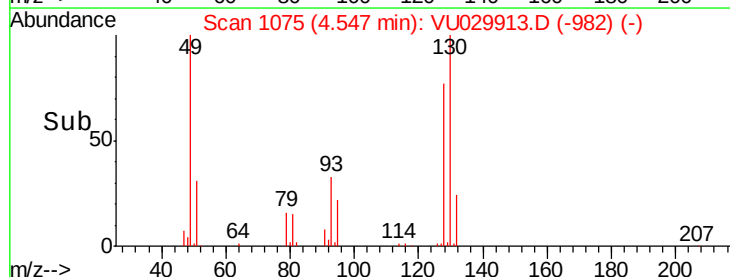
40000

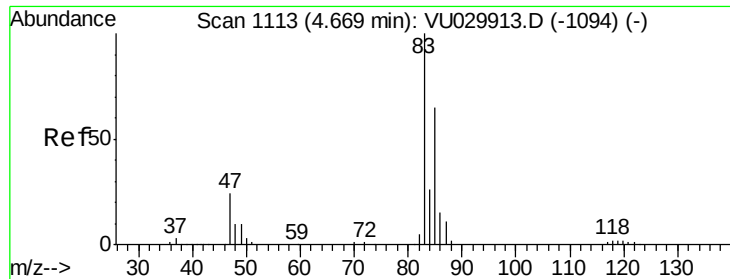
20000

0

4.45 4.55 4.65

Time-->

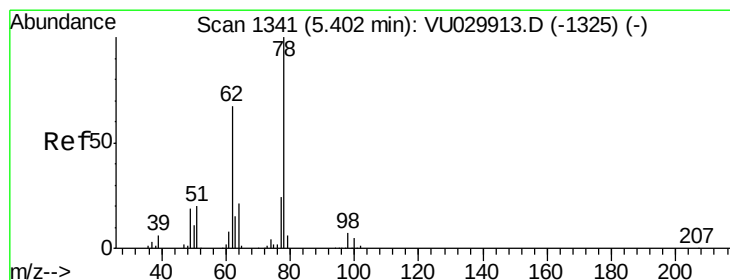
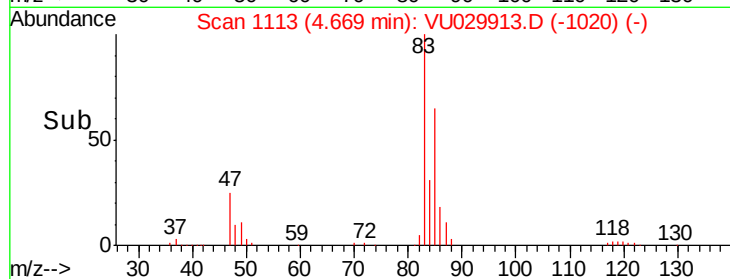
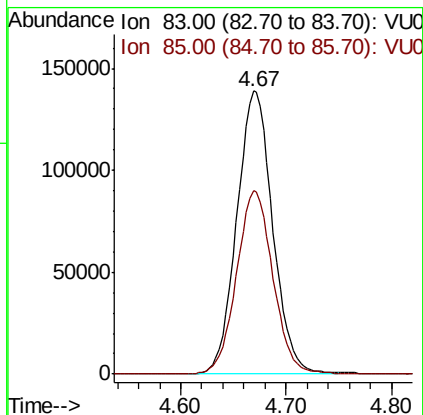
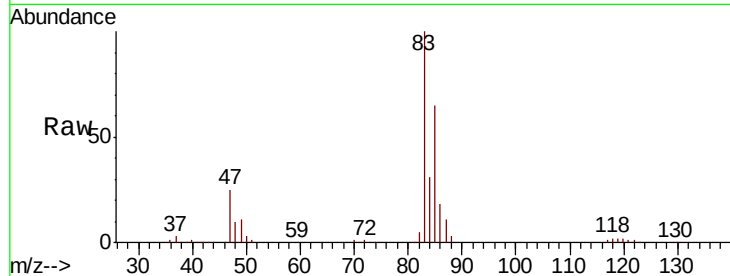




#25
Chloroform
Concen: 52.041 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VU029913.D
Acq: 09 Mar 2019 12:04

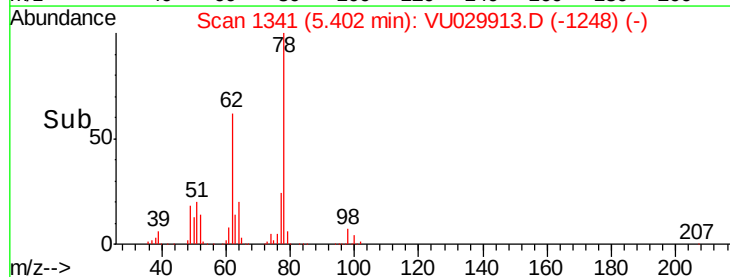
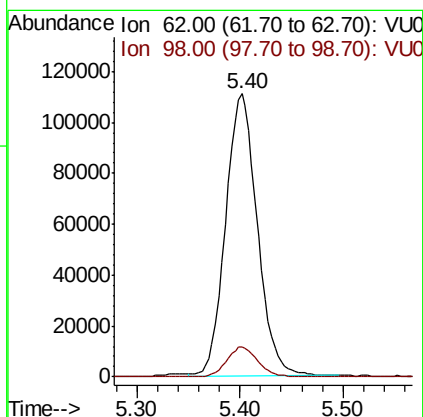
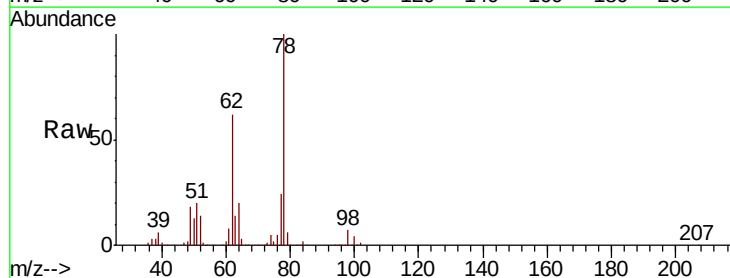
Instrument :
MSVOA_U
ClientSampleId :
VSTD05044

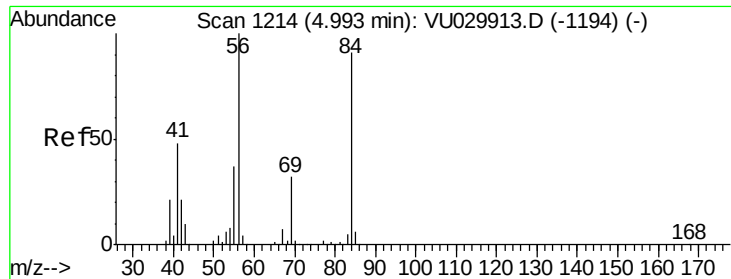
Tgt Ion: 83 Resp: 328398
Ion Ratio Lower Upper
83 100
85 64.7 45.3 84.1



#27
1,2-Dichloroethane
Concen: 49.867 ug/L
RT: 5.40 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VU029913.D
Acq: 09 Mar 2019 12:04

Tgt Ion: 62 Resp: 238086
Ion Ratio Lower Upper
62 100
98 10.7 8.6 12.8

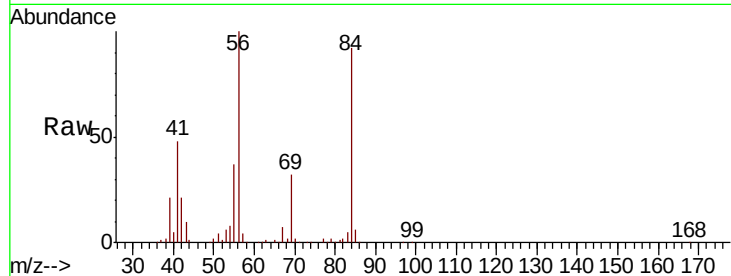




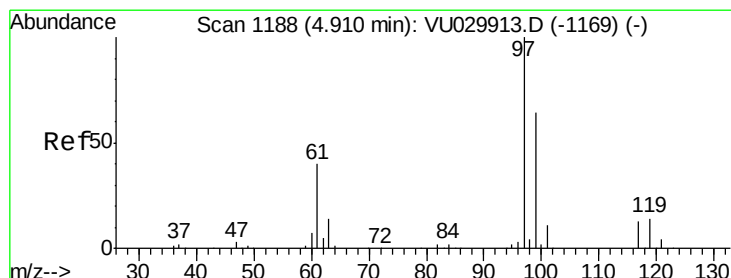
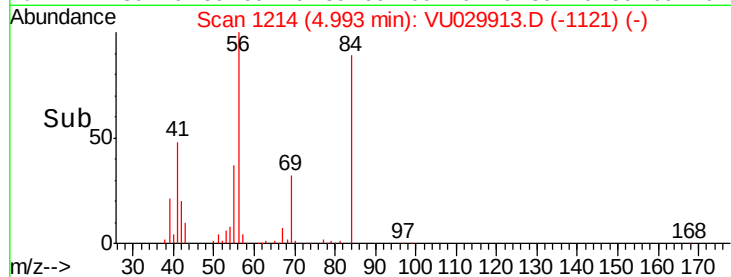
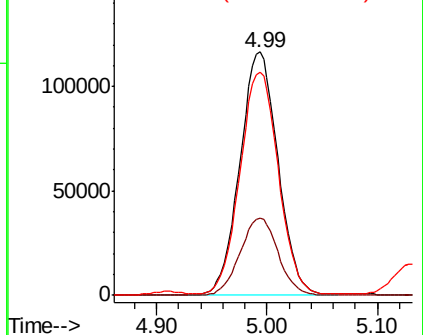
#29
Cyclohexane
Concen: 52.770 ug/L
RT: 4.99 min Scan# 1214
Delta R.T. 0.00 min
Lab File: VU029913.D
Acq: 09 Mar 2019 12:04

Instrument :
MSVOA_U
ClientSampleId :
VSTD05044

Tgt Ion: 56 Resp: 279379
Ion Ratio Lower Upper
56 100
69 31.7 25.4 38.0
84 91.3 73.0 109.6

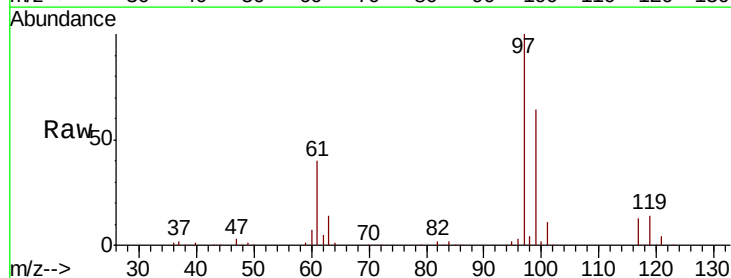


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

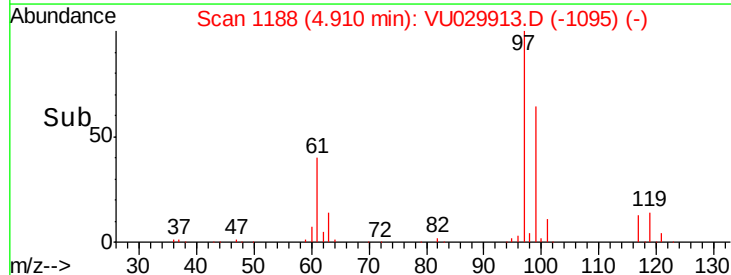
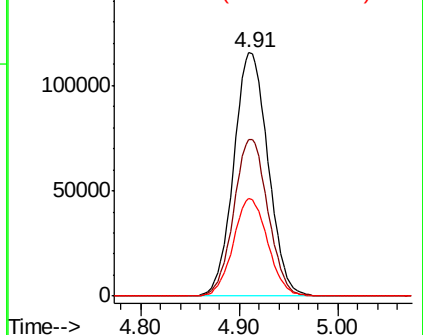


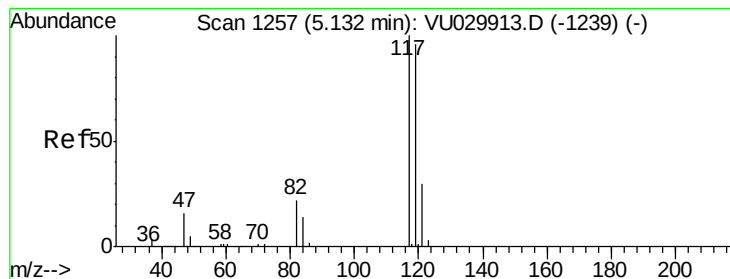
#30
1,1,1-Trichloroethane
Concen: 50.085 ug/L
RT: 4.91 min Scan# 1188
Delta R.T. 0.00 min
Lab File: VU029913.D
Acq: 09 Mar 2019 12:04

Tgt Ion: 97 Resp: 279477
Ion Ratio Lower Upper
97 100
99 64.2 51.4 77.0
61 40.2 32.2 48.2



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





#31

Carbon tetrachloride

Concen: 48.460 ug/L

RT: 5.13 min Scan# 1257

Delta R.T. 0.00 min

Lab File: VU029913.D

Acq: 09 Mar 2019 12:04

Instrument :

MSVOA_U

ClientSampleId :

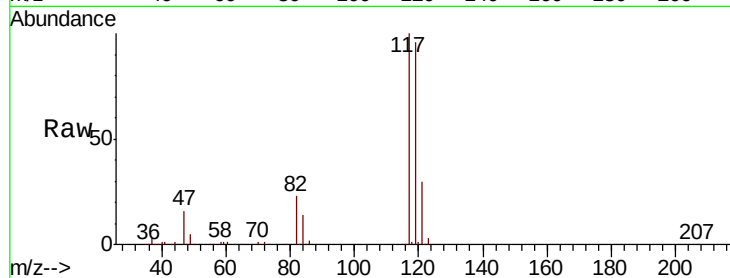
VSTD05044

Tgt Ion:117 Resp: 243042

Ion Ratio Lower Upper

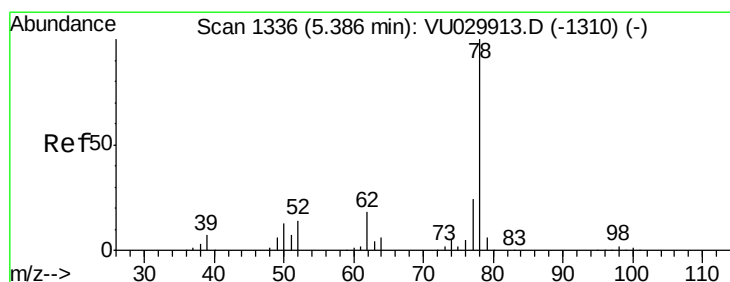
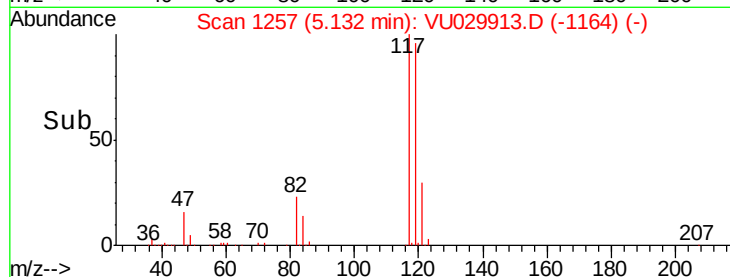
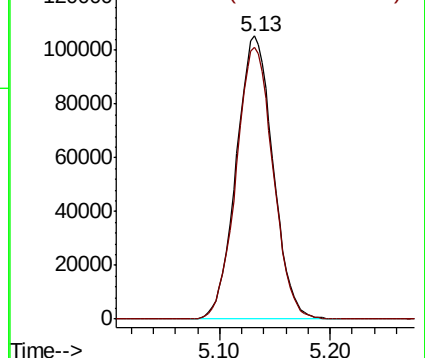
117 100

119 96.1 76.9 115.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 53.527 ug/L

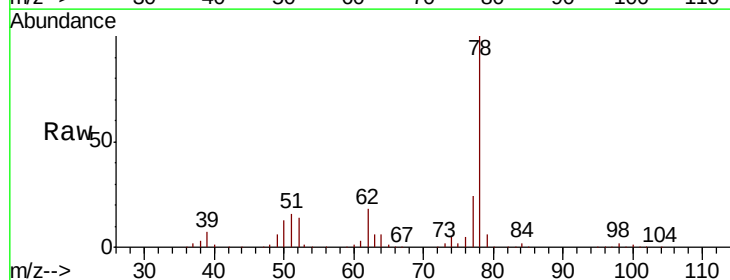
RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

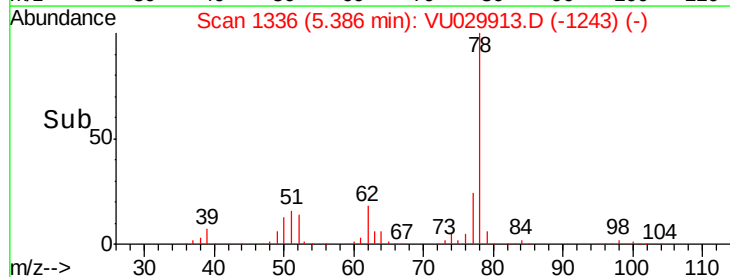
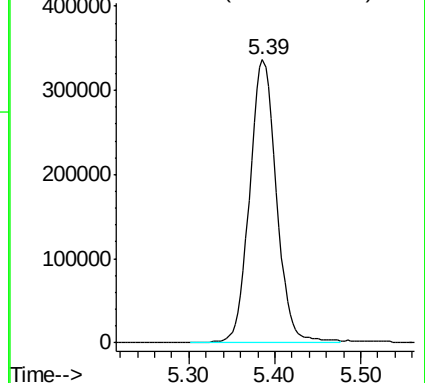
Lab File: VU029913.D

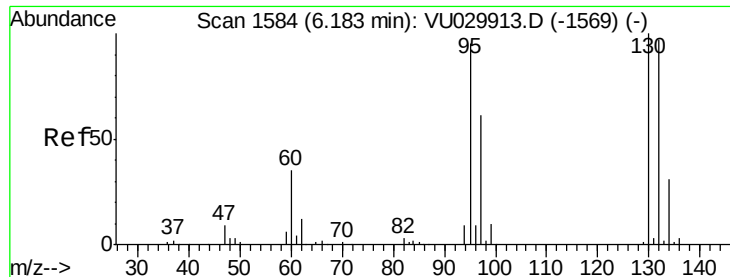
Acq: 09 Mar 2019 12:04

Tgt Ion: 78 Resp: 732884



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 52.036 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU029913.D

Acq: 09 Mar 2019 12:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

Tgt Ion: 95 Resp: 190314

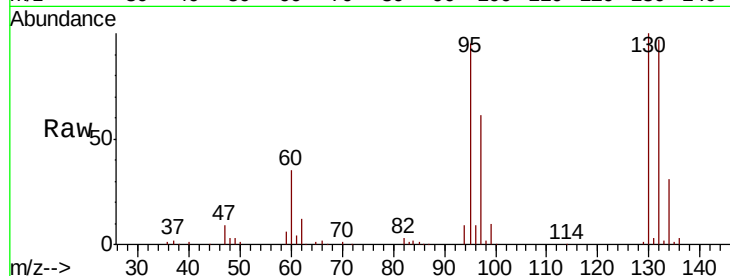
Ion Ratio Lower Upper

95 100

97 64.4 45.1 83.7

132 102.8 72.0 133.6

130 105.8 74.1 137.5

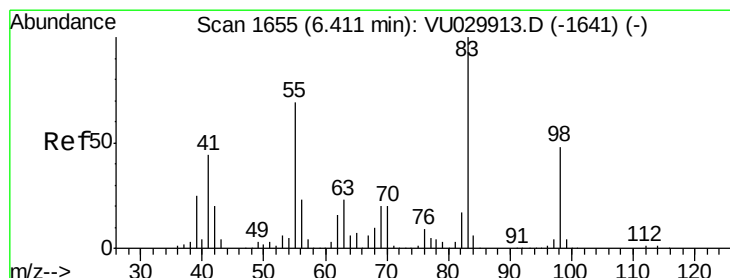
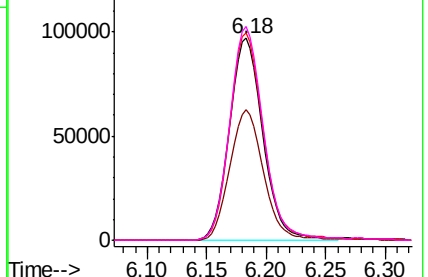
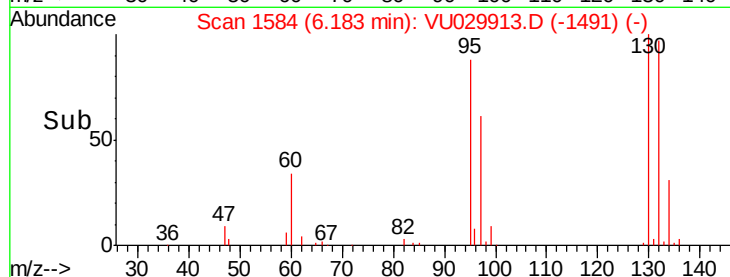


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 51.556 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU029913.D

Acq: 09 Mar 2019 12:04

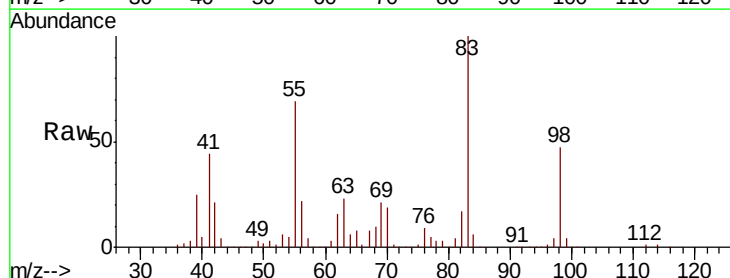
Tgt Ion: 83 Resp: 314168

Ion Ratio Lower Upper

83 100

55 69.4 55.5 83.3

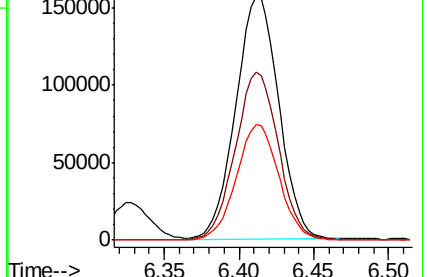
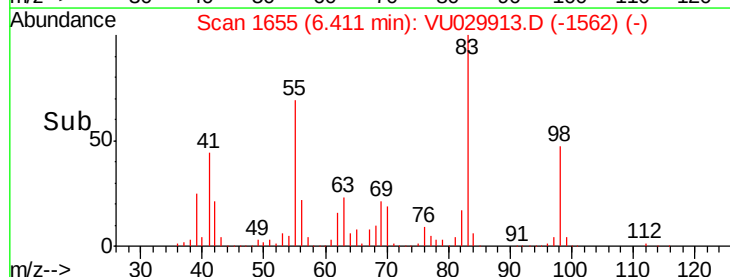
98 47.0 37.6 56.4

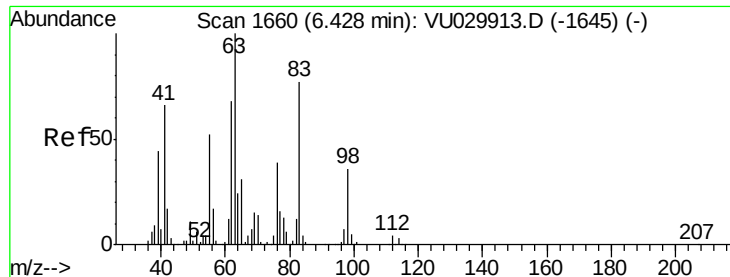


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

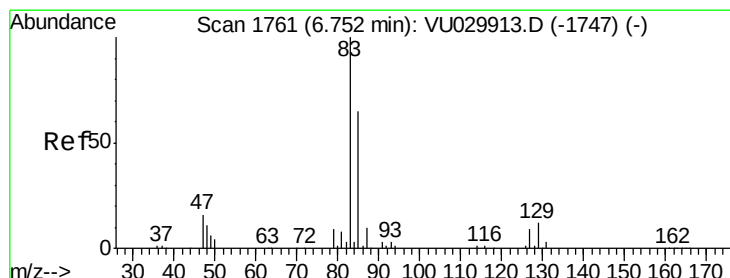
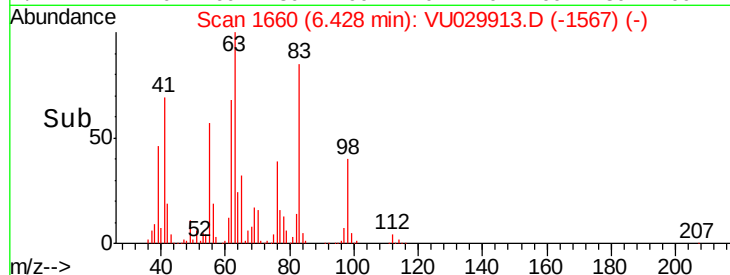
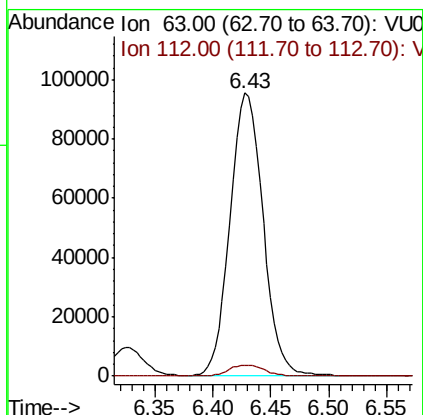
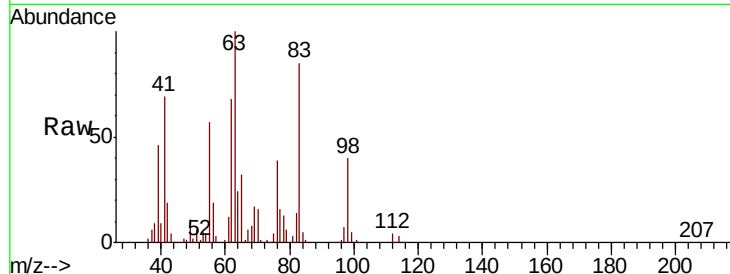




#37
 1,2-Dichloropropane
 Concen: 52.600 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU029913.D
 Acq: 09 Mar 2019 12:04

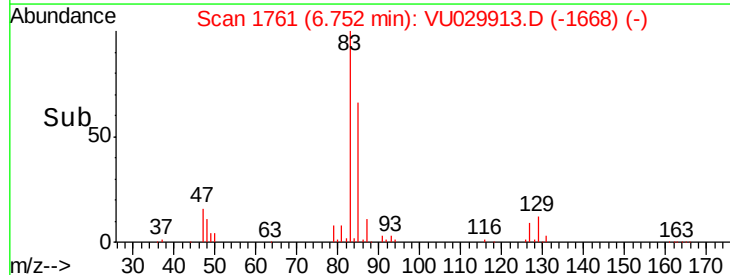
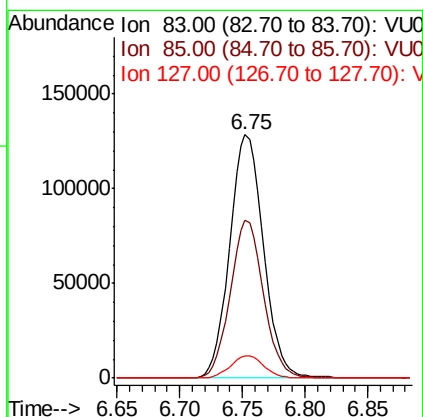
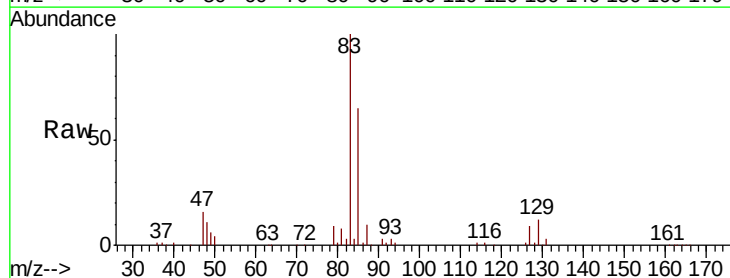
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05044

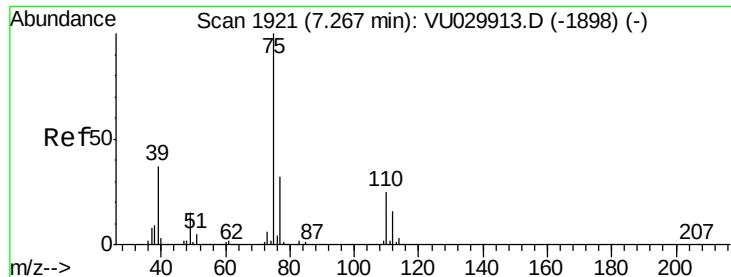
Tgt Ion: 63 Resp: 187987
 Ion Ratio Lower Upper
 63 100
 112 4.2 3.4 5.0



#38
 Bromodichloromethane
 Concen: 50.351 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. 0.00 min
 Lab File: VU029913.D
 Acq: 09 Mar 2019 12:04

Tgt Ion: 83 Resp: 240336
 Ion Ratio Lower Upper
 83 100
 85 64.6 45.2 84.0
 127 9.2 7.4 11.0

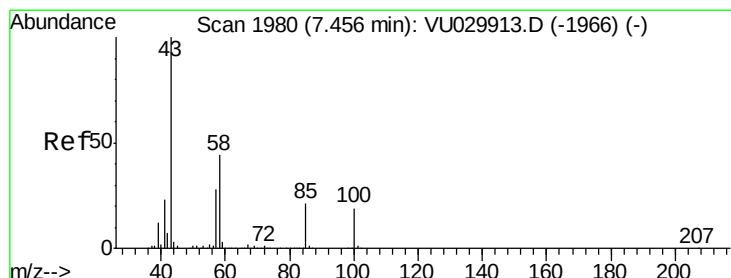
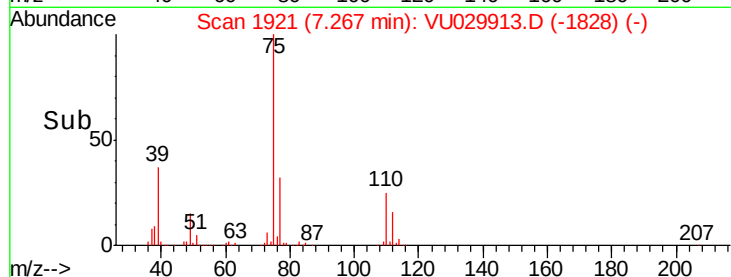
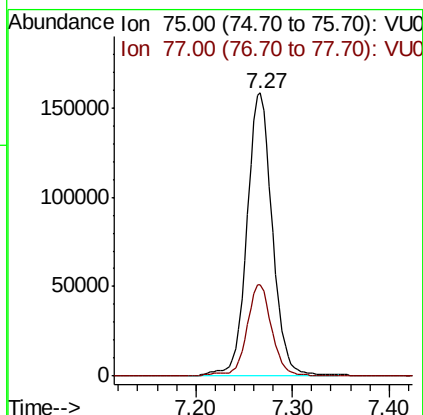
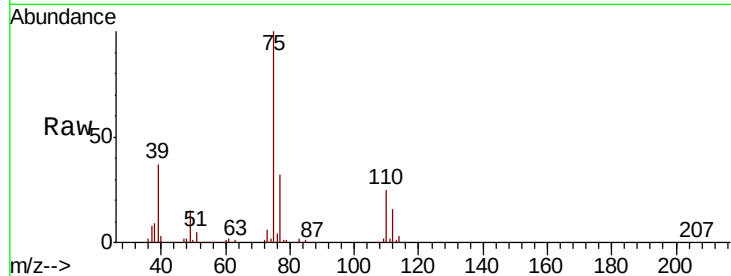




#39
 cis-1,3-Dichloropropene
 Concen: 50.843 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU029913.D
 Acq: 09 Mar 2019 12:04

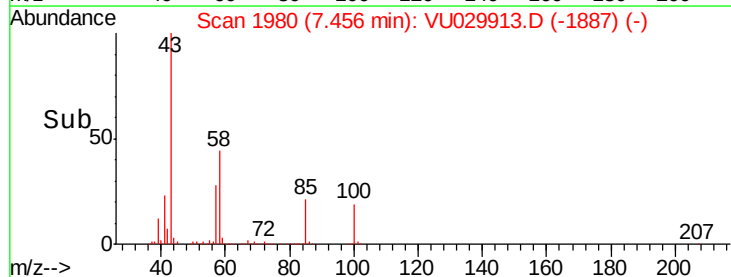
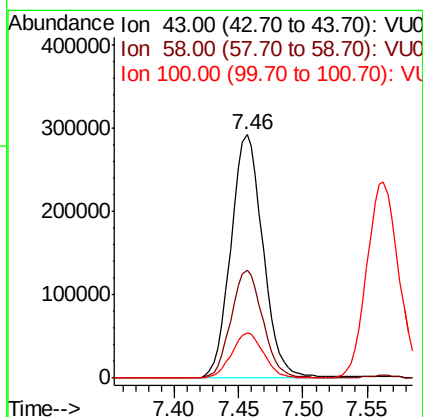
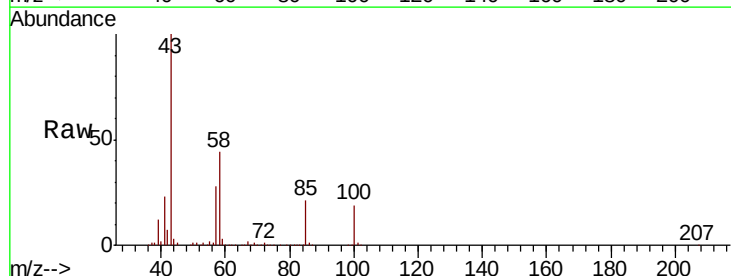
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05044

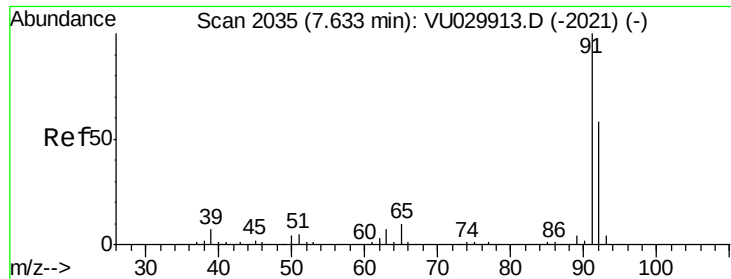
Tgt Ion: 75 Resp: 288892
 Ion Ratio Lower Upper
 75 100
 77 32.2 22.5 41.9



#40
 4-Methyl-2-pentanone
 Concen: 101.639 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VU029913.D
 Acq: 09 Mar 2019 12:04

Tgt Ion: 43 Resp: 506375
 Ion Ratio Lower Upper
 43 100
 58 43.8 35.0 52.6
 100 18.5 14.8 22.2





#42

Toluene

Concen: 50.694 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU029913.D

Acq: 09 Mar 2019 12:04

Instrument :

MSVOA_U

ClientSampleId :

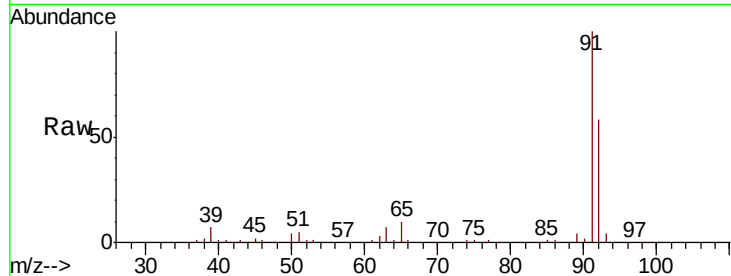
VSTD05044

Tgt Ion: 91 Resp: 810189

Ion Ratio Lower Upper

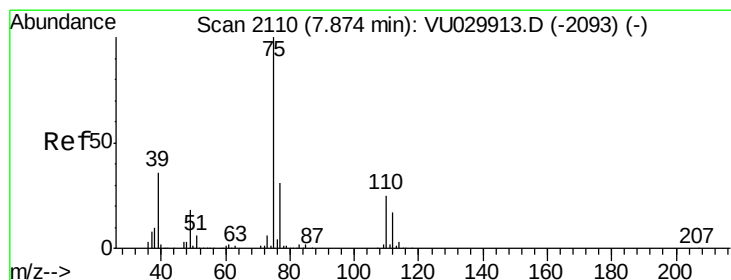
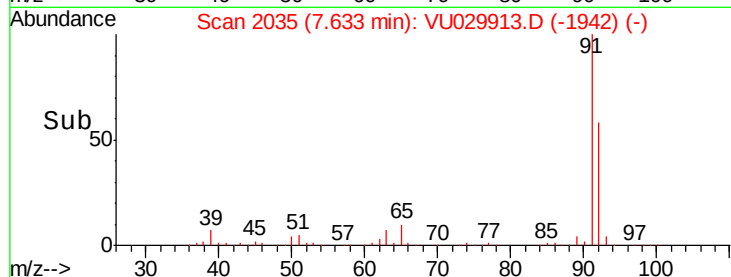
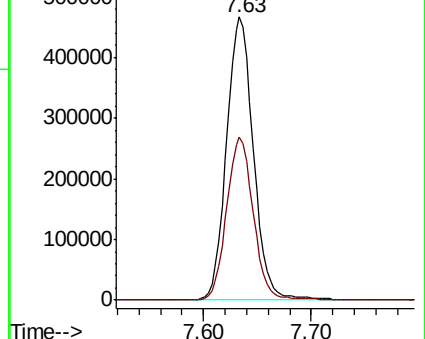
91 100

92 57.8 40.5 75.1



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0



#44

trans-1,3-Dichloropropene

Concen: 49.503 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VU029913.D

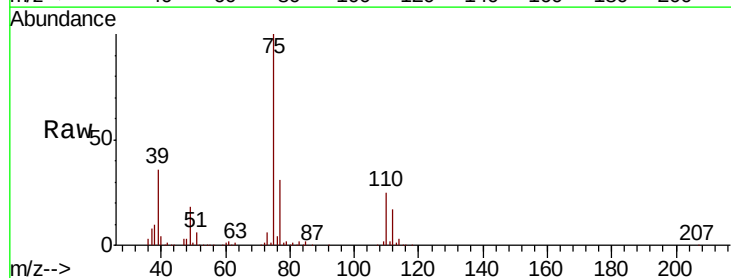
Acq: 09 Mar 2019 12:04

Tgt Ion: 75 Resp: 264100

Ion Ratio Lower Upper

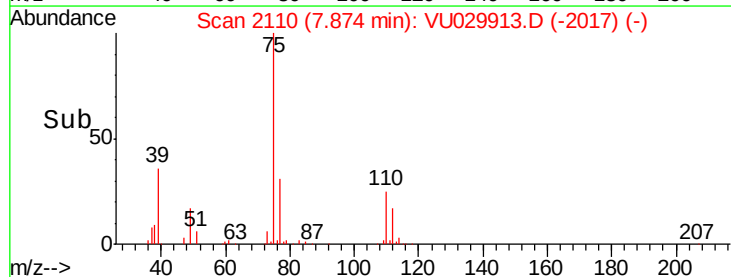
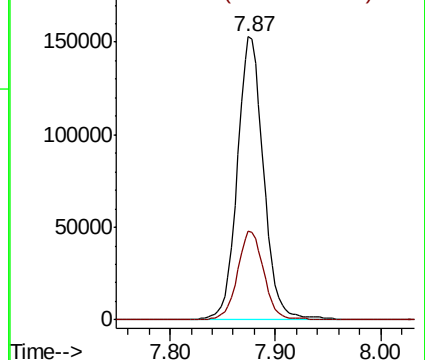
75 100

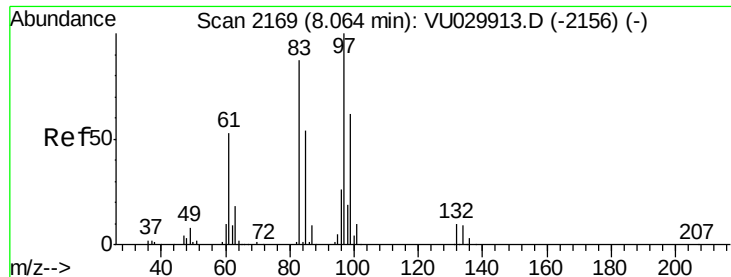
77 31.2 21.8 40.6



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

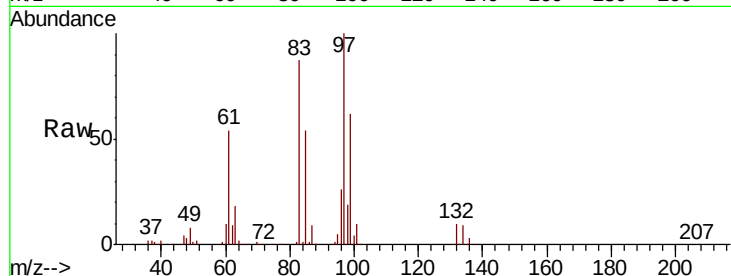




#45
 1,1,2-Trichloroethane
 Concen: 50.498 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU029913.D
 Acq: 09 Mar 2019 12:04

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05044

Tgt Ion:	97	Resp:	190437
Ion	Ratio	Lower	Upper
97	100		
99	62.4	43.7	81.1
83	86.8	60.8	112.8
85	54.4	38.1	70.7



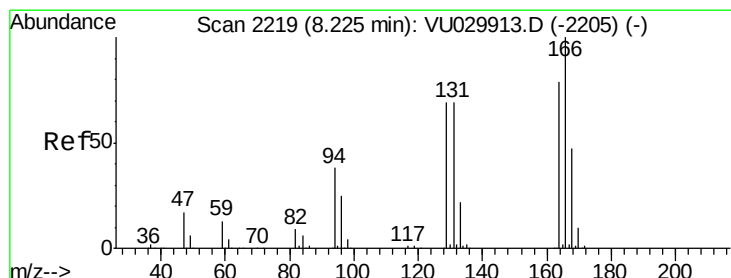
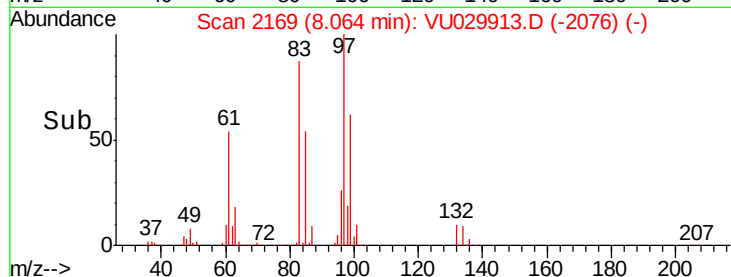
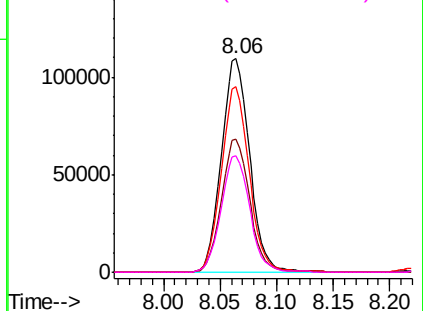
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

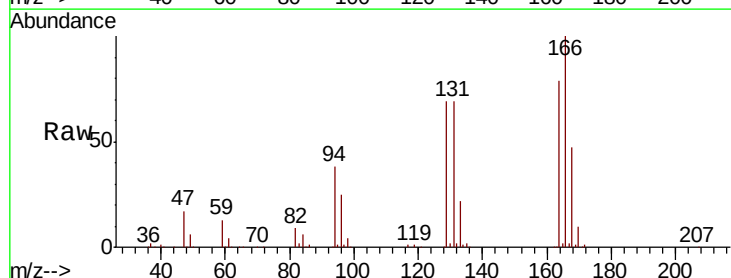
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 47.933 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU029913.D
 Acq: 09 Mar 2019 12:04

Tgt Ion:	164	Resp:	168635
Ion	Ratio	Lower	Upper
164	100		
129	87.1	61.0	113.2
131	86.4	60.5	112.3
166	126.1	88.3	163.9



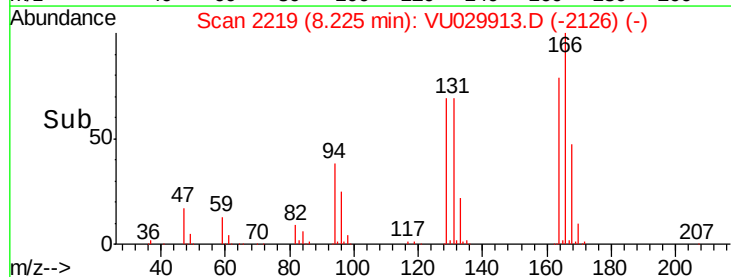
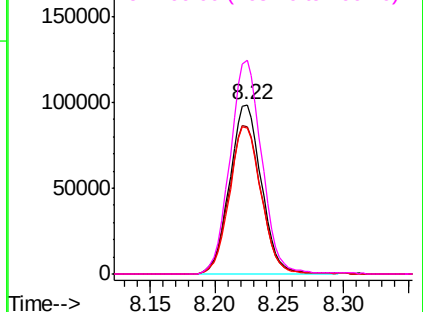
Abundance

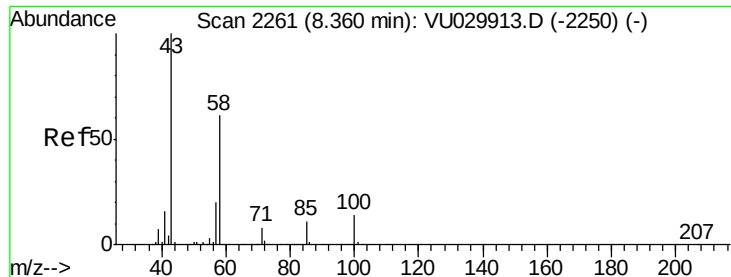
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

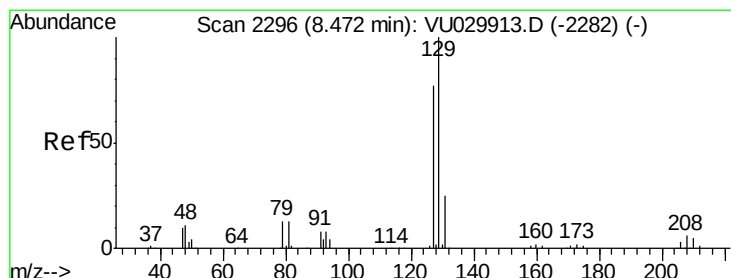
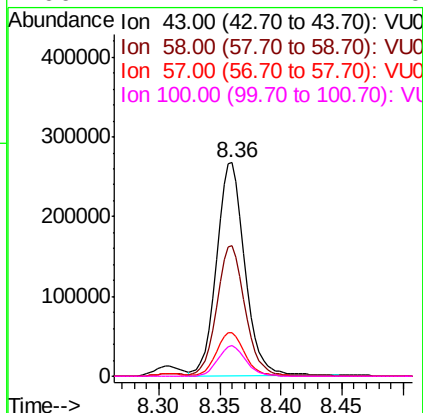
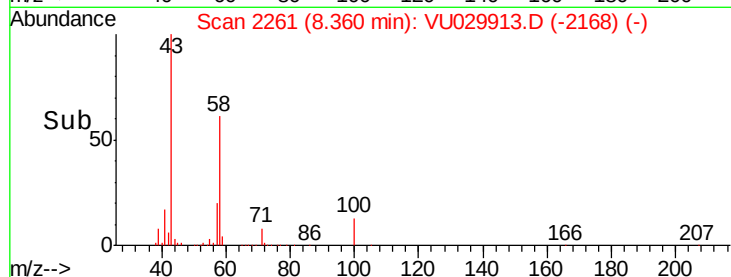
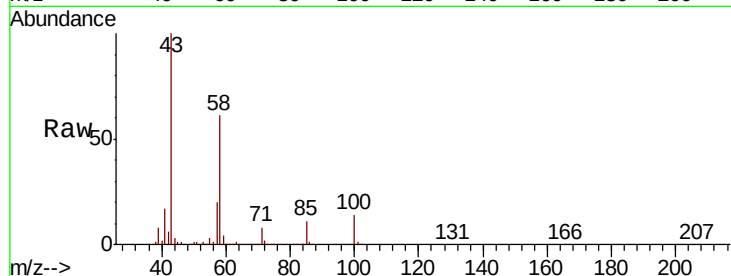




#48
2-Hexanone
Concen: 100.099 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. 0.00 min
Lab File: VU029913.D
Acq: 09 Mar 2019 12:04

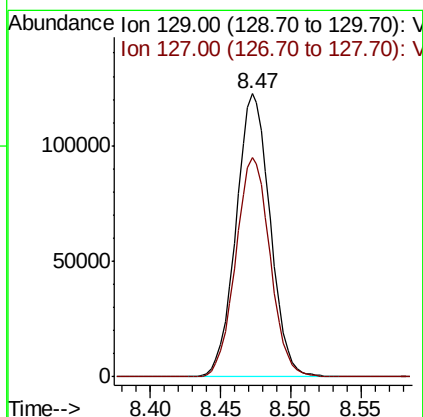
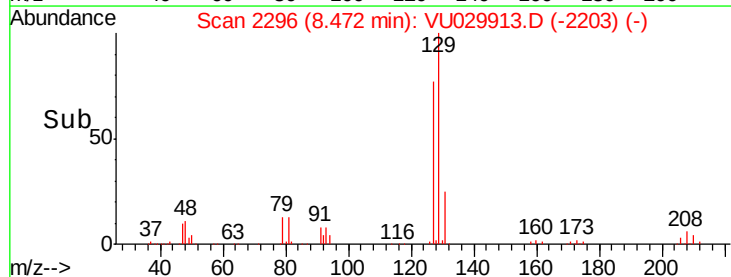
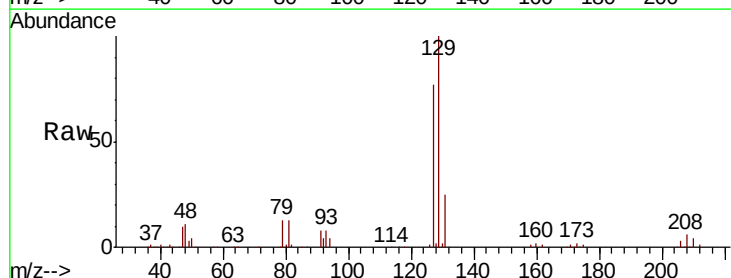
Instrument :
MSVOA_U
ClientSampleId :
VSTD05044

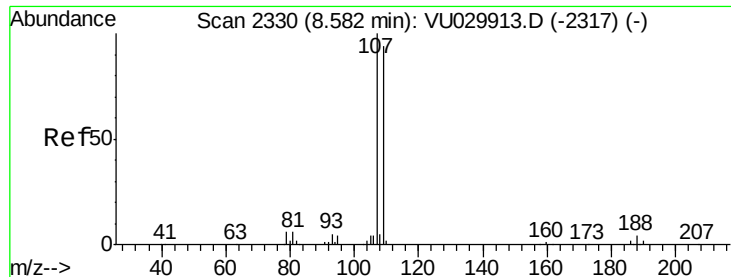
Tgt Ion: 43 Resp: 434910
Ion Ratio Lower Upper
43 100
58 61.5 49.2 73.8
57 20.8 16.6 25.0
100 14.2 11.4 17.0



#49
Dibromochloromethane
Concen: 46.301 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU029913.D
Acq: 09 Mar 2019 12:04

Tgt Ion: 129 Resp: 207500
Ion Ratio Lower Upper
129 100
127 77.5 54.3 100.8

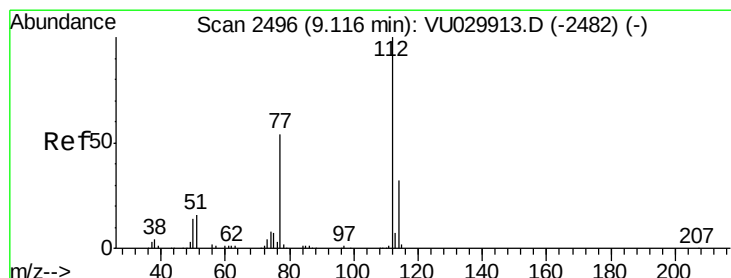
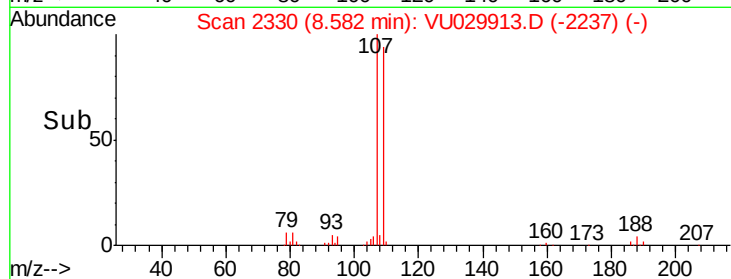
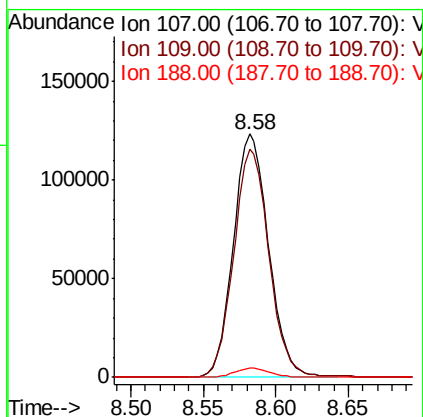
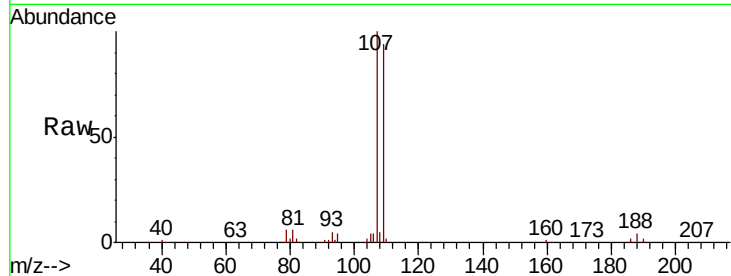




#50
1,2-Dibromoethane
Concen: 50.127 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU029913.D
Acq: 09 Mar 2019 12:04

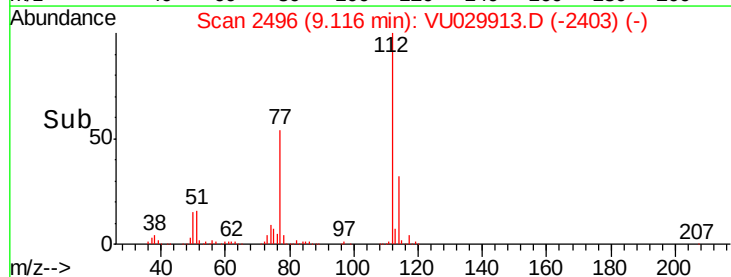
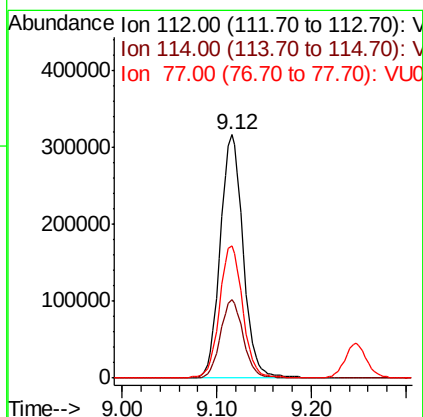
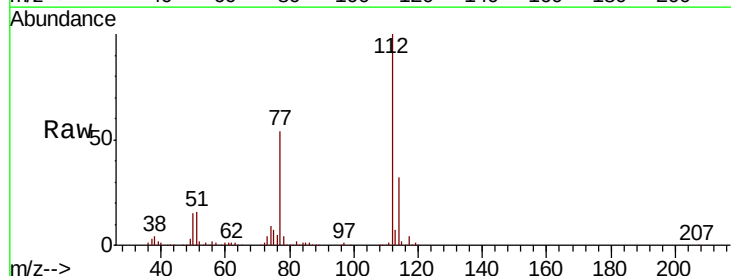
Instrument :
MSVOA_U
ClientSampleId :
VSTD05044

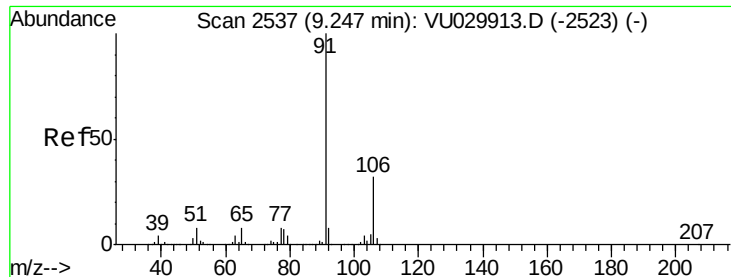
Tgt Ion:107 Resp: 208752
Ion Ratio Lower Upper
107 100
109 93.8 65.7 121.9
188 3.6 2.9 4.3



#51
Chlorobenzene
Concen: 48.991 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. 0.00 min
Lab File: VU029913.D
Acq: 09 Mar 2019 12:04

Tgt Ion:112 Resp: 532465
Ion Ratio Lower Upper
112 100
114 32.0 22.4 41.6
77 54.4 43.5 65.3





#52

Ethylbenzene

Concen: 49.095 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU029913.D

Acq: 09 Mar 2019 12:04

Instrument :

MSVOA_U

ClientSampleId :

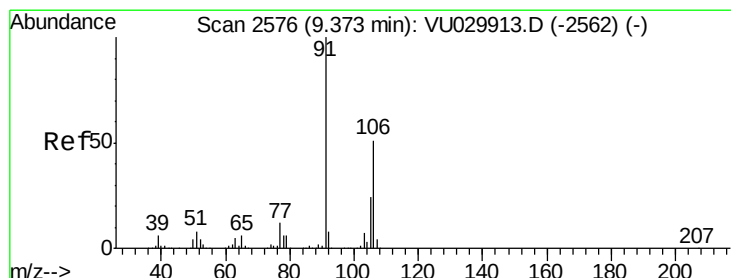
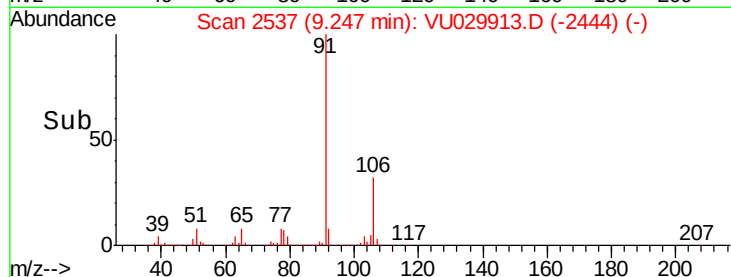
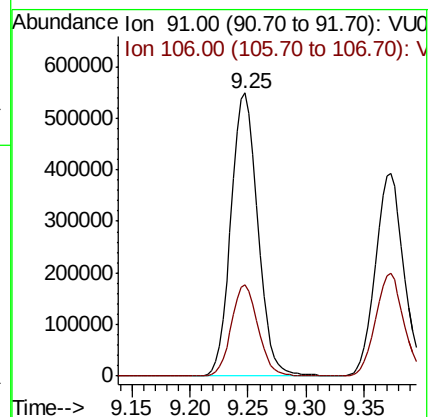
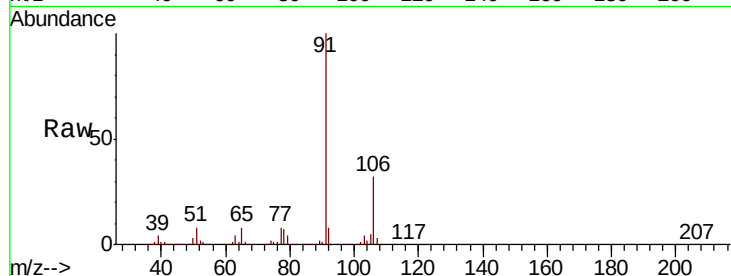
VSTD05044

Tgt Ion: 91 Resp: 883475

Ion Ratio Lower Upper

91 100

106 32.1 22.5 41.7



#53

m,p-Xylene

Concen: 47.225 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU029913.D

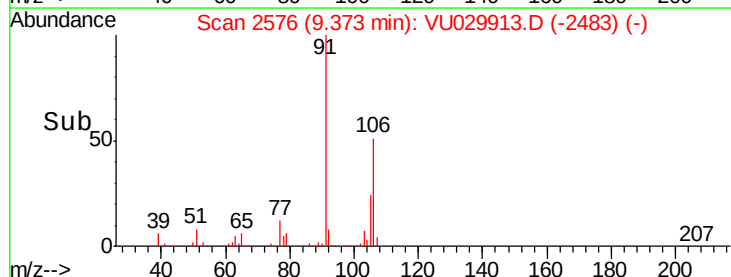
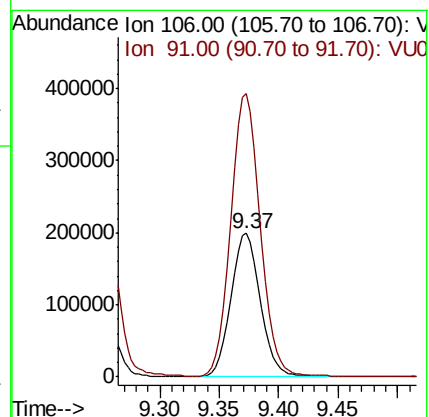
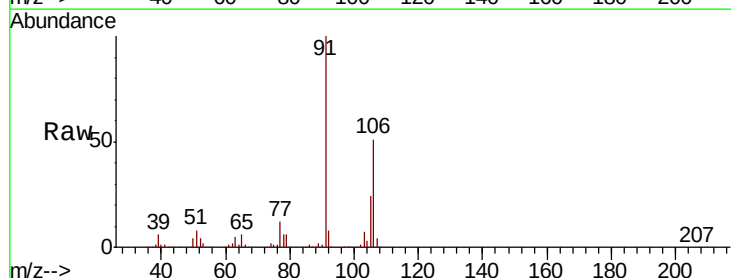
Acq: 09 Mar 2019 12:04

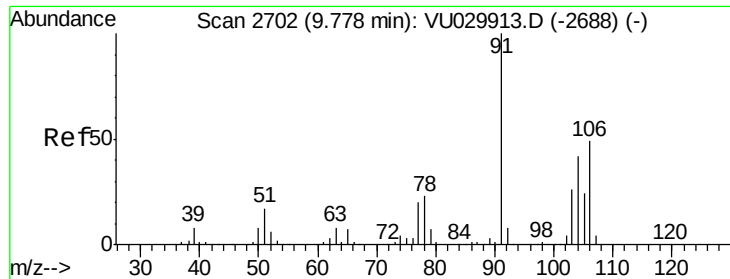
Tgt Ion: 106 Resp: 339249

Ion Ratio Lower Upper

106 100

91 196.9 137.8 256.0





#54

o-xylene

Concen: 47.254 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU029913.D

Acq: 09 Mar 2019 12:04

Instrument :

MSVOA_U

ClientSampleId :

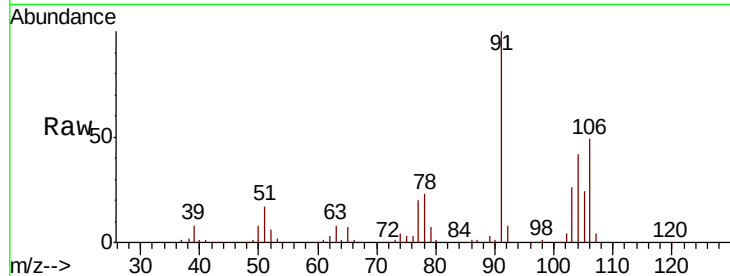
VSTD05044

Tgt Ion:106 Resp: 340127

Ion Ratio Lower Upper

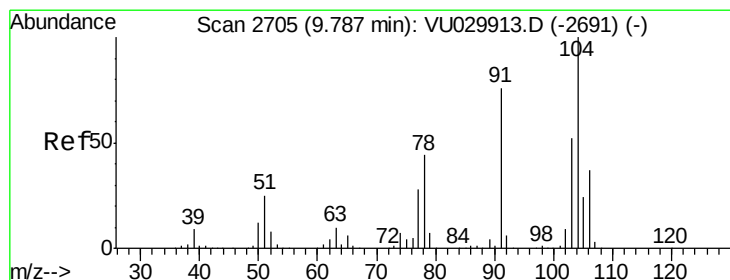
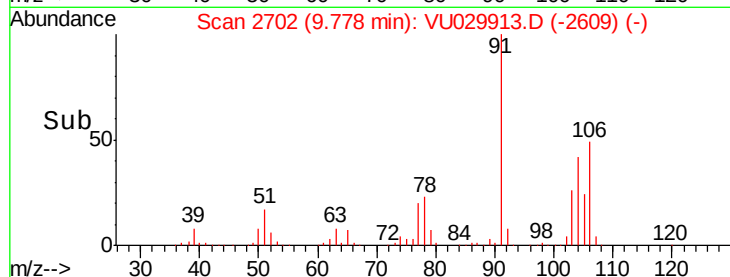
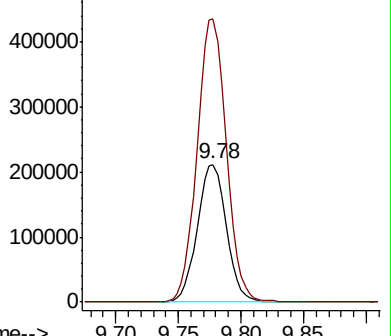
106 100

91 205.2 143.6 266.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 45.790 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU029913.D

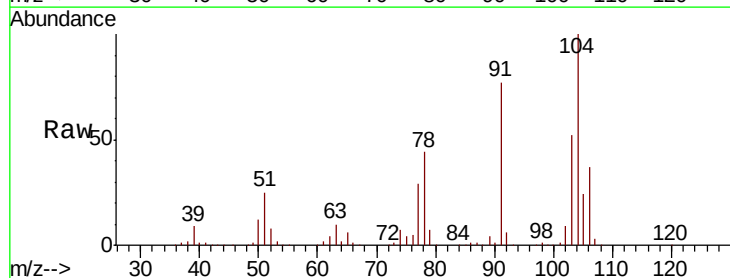
Acq: 09 Mar 2019 12:04

Tgt Ion:104 Resp: 552819

Ion Ratio Lower Upper

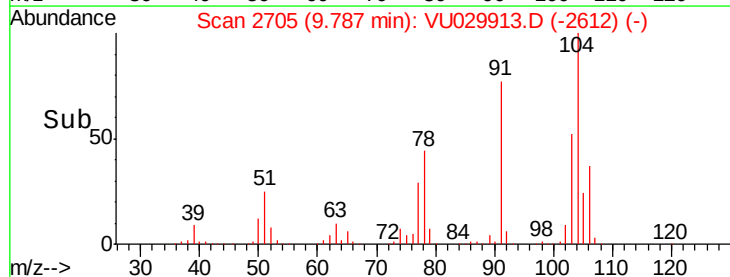
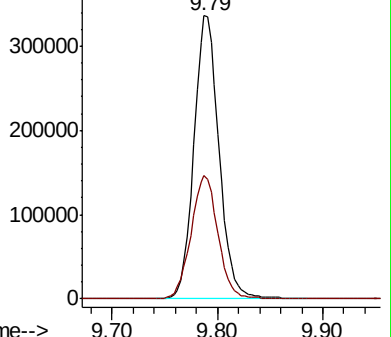
104 100

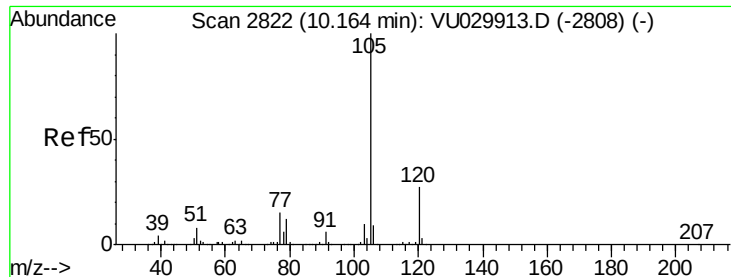
78 43.7 30.6 56.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 46.865 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU029913.D

Acq: 09 Mar 2019 12:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

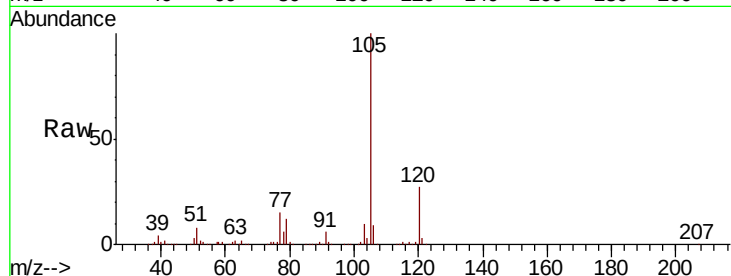
Tgt Ion: 105 Resp: 882057

Ion Ratio Lower Upper

105 100

120 27.0 21.6 32.4

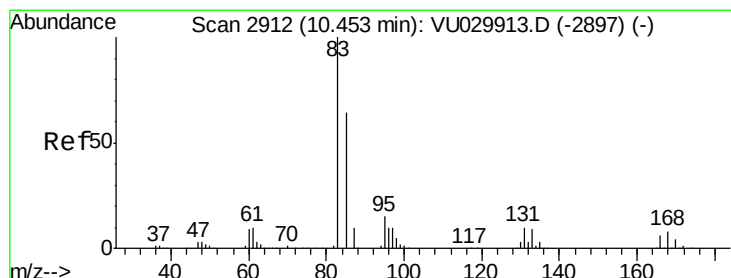
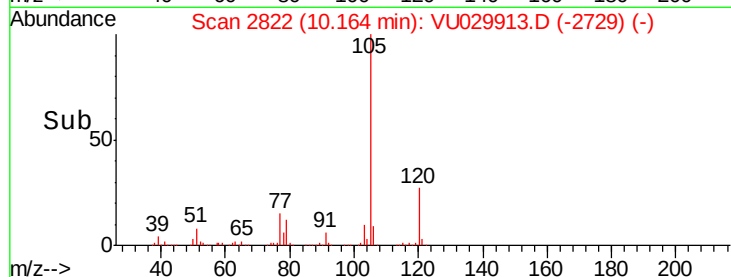
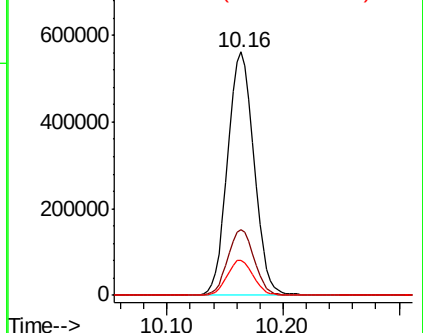
77 14.4 11.5 17.3



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: 49.632 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU029913.D

Acq: 09 Mar 2019 12:04

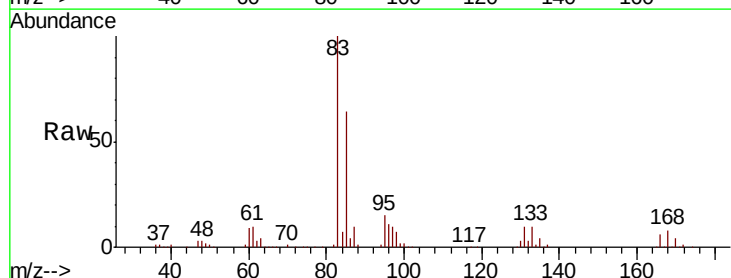
Tgt Ion: 83 Resp: 330589

Ion Ratio Lower Upper

83 100

85 64.3 45.0 83.6

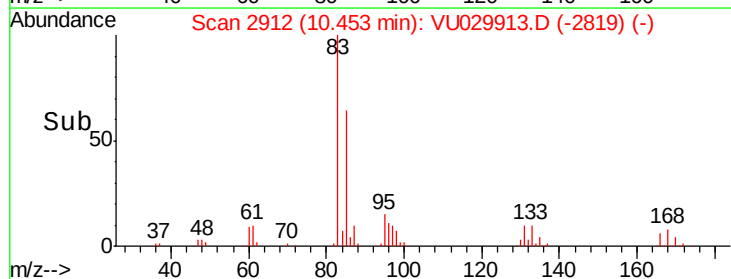
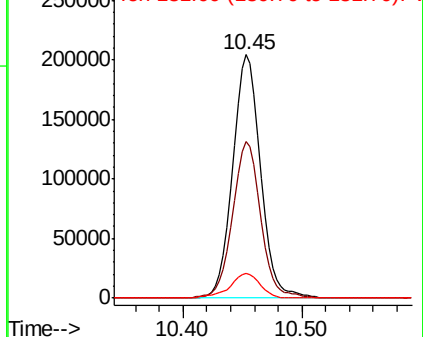
131 10.0 8.0 12.0

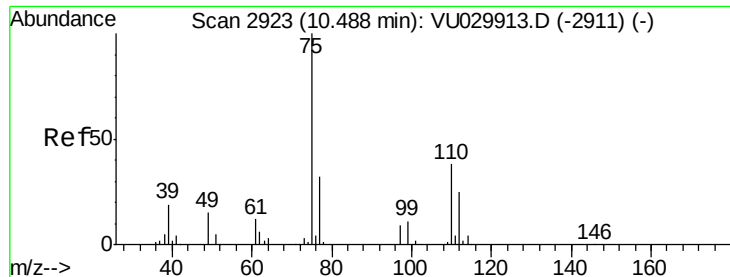


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 49.902 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. 0.00 min

Lab File: VU029913.D

Acq: 09 Mar 2019 12:04

Instrument :

MSVOA_U

ClientSampleId :

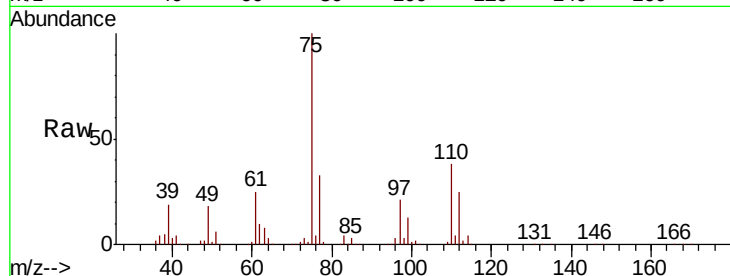
VSTD05044

Tgt Ion: 75 Resp: 251301

Ion Ratio Lower Upper

75 100

77 32.6 26.1 39.1



Abundance Ion 75.00 (74.70 to 75.70): VU029913.D (-2911) (-)

Ion 77.00 (76.70 to 77.70): VU029913.D (-2911) (-)

10.49

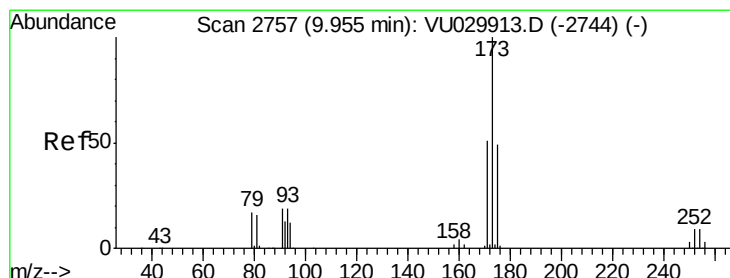
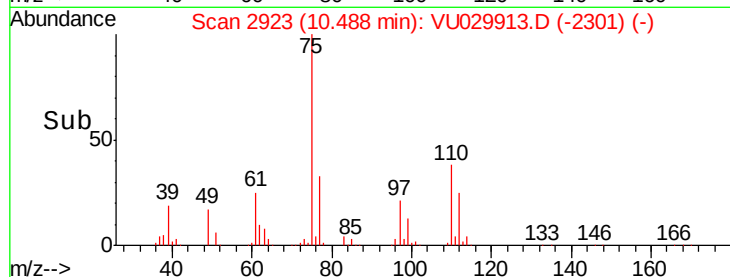
150000

100000

50000

0

Time--> 10.40 10.50 10.60



#61

Bromoform

Concen: 46.062 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU029913.D

Acq: 09 Mar 2019 12:04

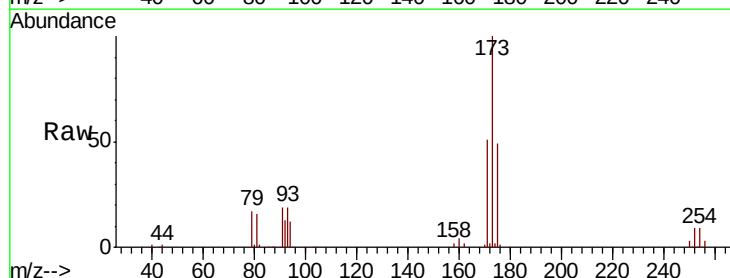
Tgt Ion: 173 Resp: 166920

Ion Ratio Lower Upper

173 100

175 48.4 38.7 58.1

254 9.3 7.4 11.2



Abundance Ion 173.00 (172.70 to 173.70): VU029913.D (-2744) (-)

Ion 175.00 (174.70 to 175.70): VU029913.D (-2744) (-)

Ion 254.00 (253.70 to 254.70): VU029913.D (-2744) (-)

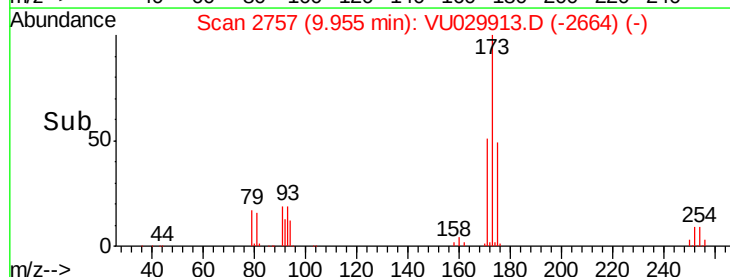
9.95

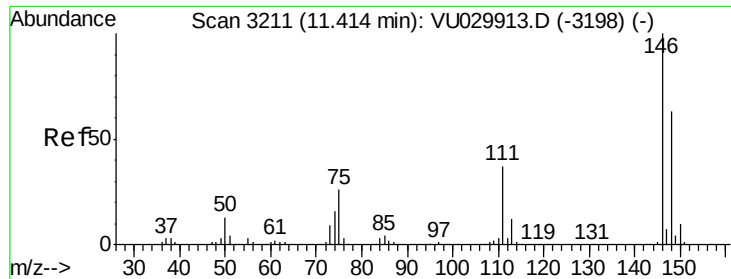
100000

50000

0

Time--> 9.90 10.00

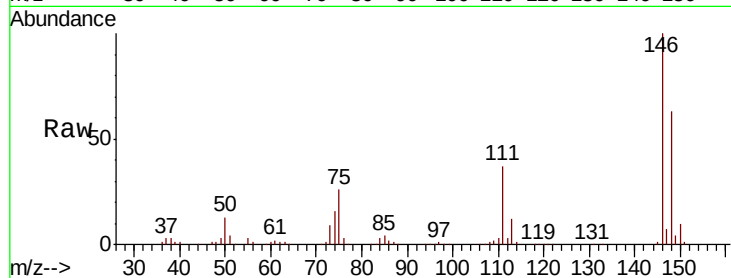




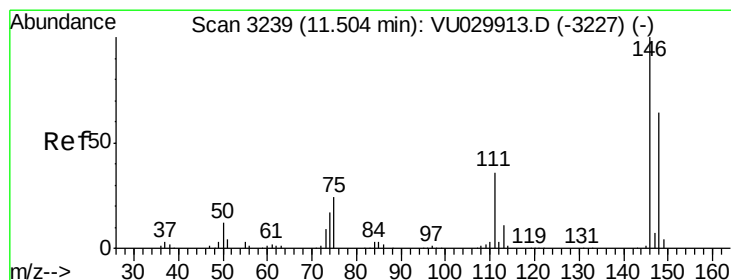
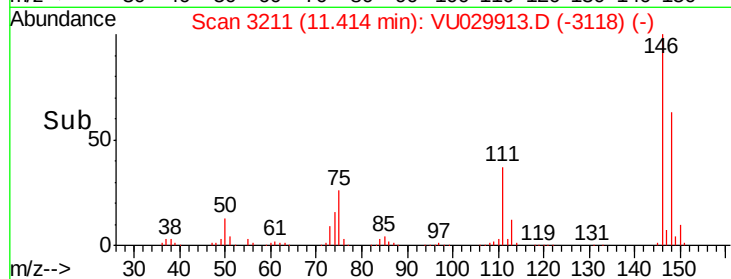
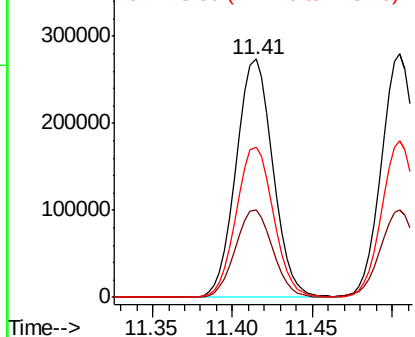
#62
 1,3-Dichlorobenzene
 Concen: 49.464 ug/L
 RT: 11.41 min Scan# 3211
 Delta R.T. 0.00 min
 Lab File: VU029913.D
 Acq: 09 Mar 2019 12:04

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05044

Tgt Ion:146 Resp: 429438
 Ion Ratio Lower Upper
 146 100
 111 36.7 25.7 47.7
 148 63.1 44.2 82.0

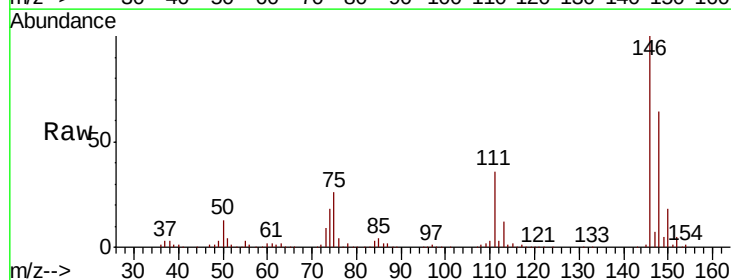


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

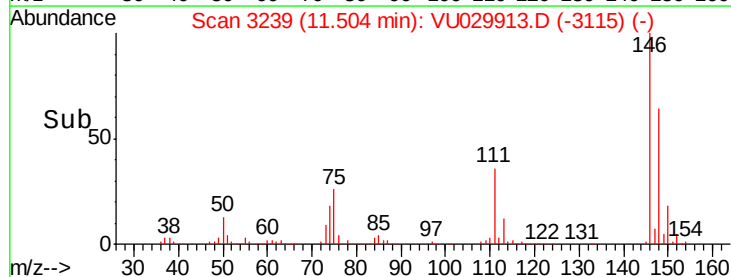
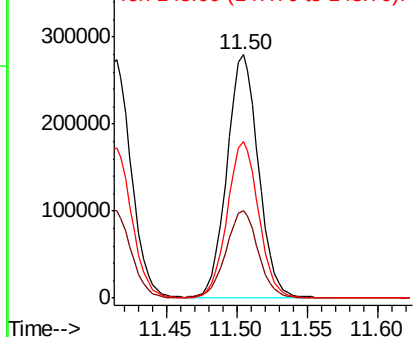


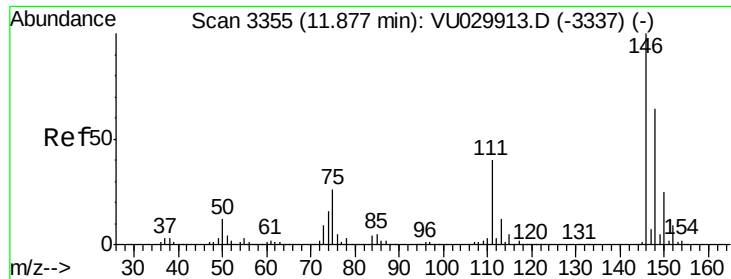
#63
 1,4-Dichlorobenzene
 Concen: 49.651 ug/L
 RT: 11.50 min Scan# 3239
 Delta R.T. 0.00 min
 Lab File: VU029913.D
 Acq: 09 Mar 2019 12:04

Tgt Ion:146 Resp: 434363
 Ion Ratio Lower Upper
 146 100
 111 36.1 25.3 46.9
 148 64.1 44.9 83.3



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

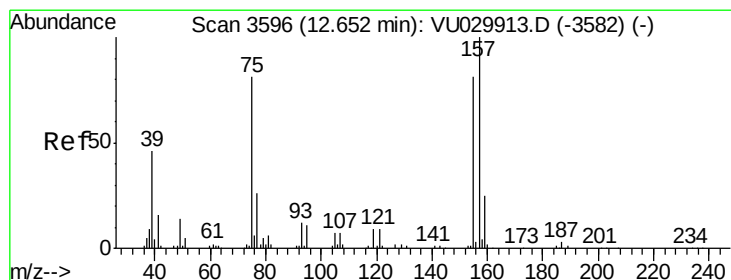
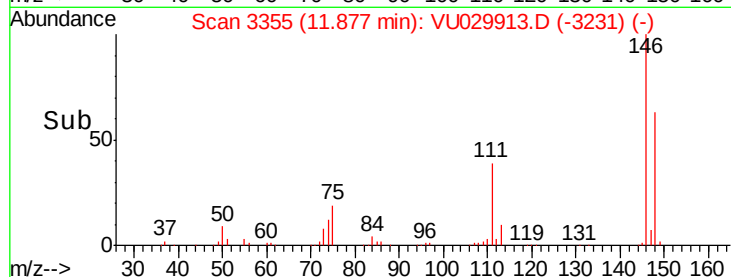
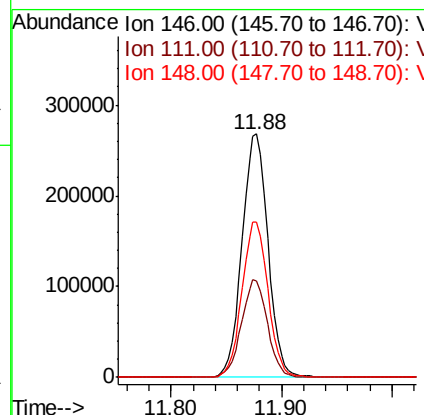
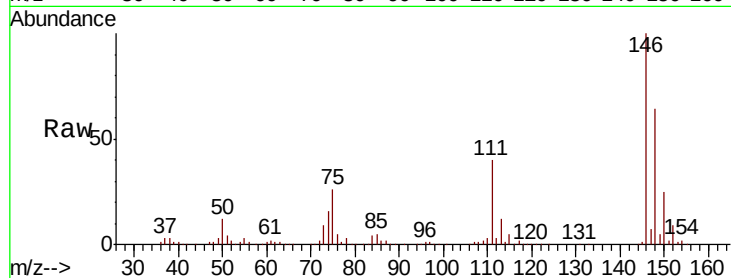




#65
 1,2-Dichlorobenzene
 Concen: 48.272 ug/L
 RT: 11.88 min Scan# 3355
 Delta R.T. 0.00 min
 Lab File: VU029913.D
 Acq: 09 Mar 2019 12:04

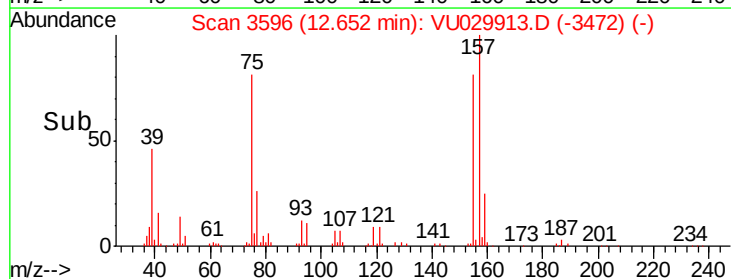
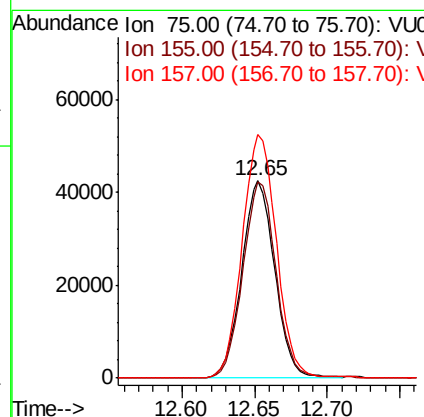
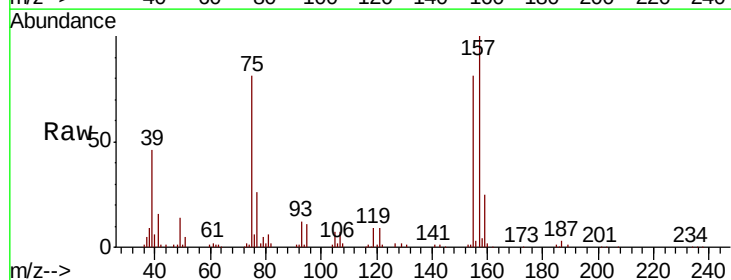
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05044

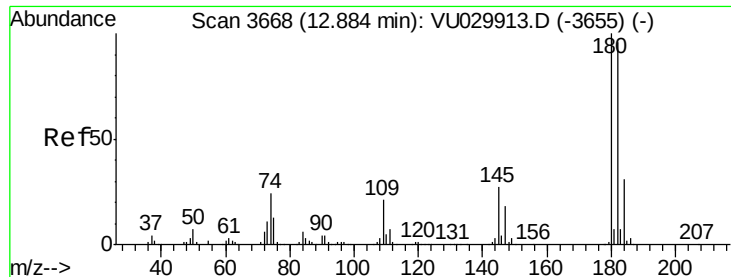
Tgt Ion: 146 Resp: 436368
 Ion Ratio Lower Upper
 146 100
 111 39.7 31.8 47.6
 148 63.8 51.0 76.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 48.521 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU029913.D
 Acq: 09 Mar 2019 12:04

Tgt Ion: 75 Resp: 67624
 Ion Ratio Lower Upper
 75 100
 155 99.8 79.8 119.8
 157 123.5 98.8 148.2

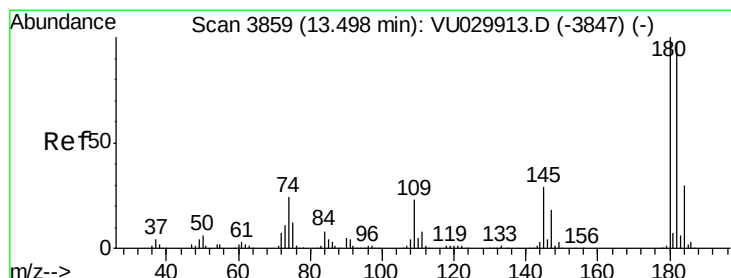
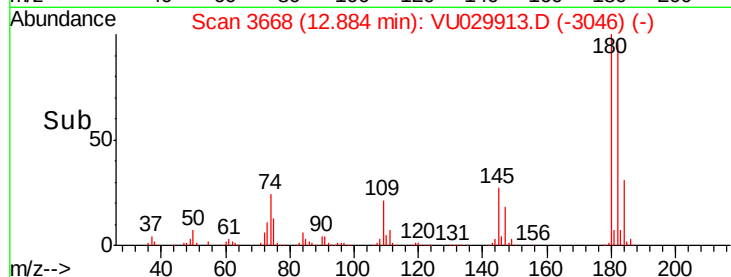
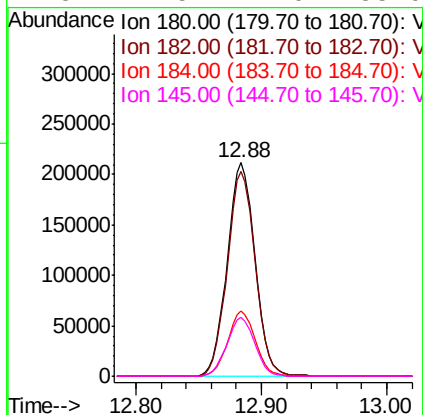
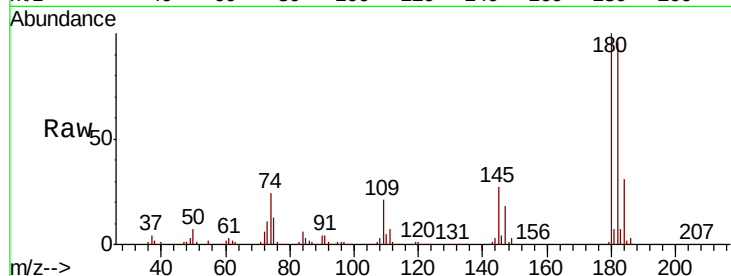




#67
 1,3,5-Trichlorobenzene
 Concen: 49.167 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU029913.D
 Acq: 09 Mar 2019 12:04

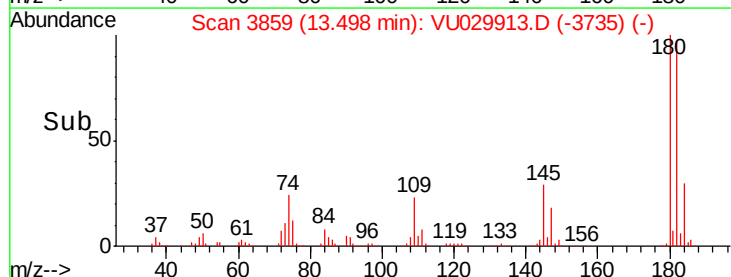
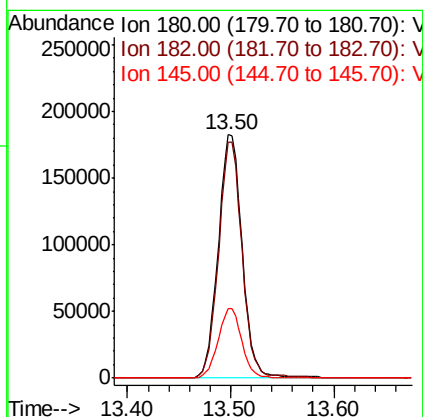
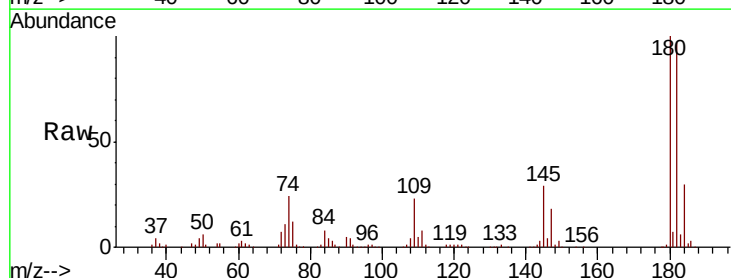
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05044

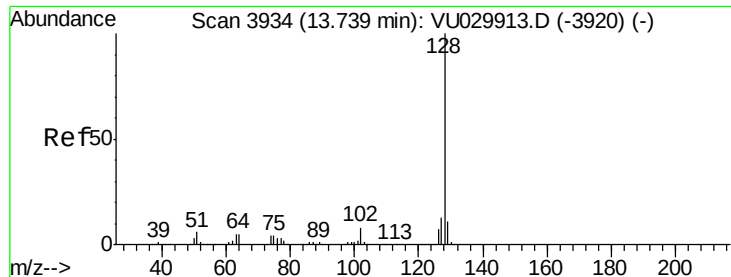
Tgt Ion:	180	Resp:	325579
Ion	Ratio	Lower	Upper
180	100		
182	95.9	76.7	115.1
184	30.3	24.2	36.4
145	27.5	22.0	33.0



#68
 1,2,4-trichlorobenzene
 Concen: 51.201 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU029913.D
 Acq: 09 Mar 2019 12:04

Tgt Ion:	180	Resp:	294596
Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.0	114.0
145	28.4	22.7	34.1





#69

Naphthalene

Concen: 51.697 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU029913.D

Acq: 09 Mar 2019 12:04

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

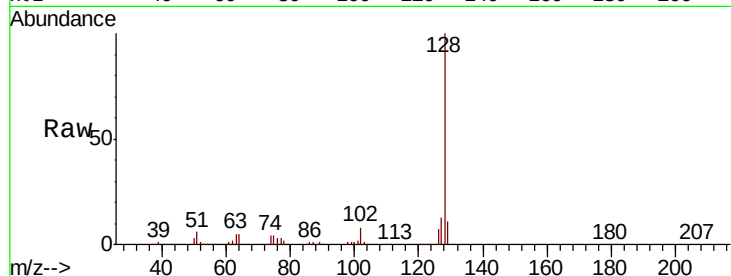
Tgt Ion:128 Resp: 908151

Ion Ratio Lower Upper

128 100

127 12.7 10.2 15.2

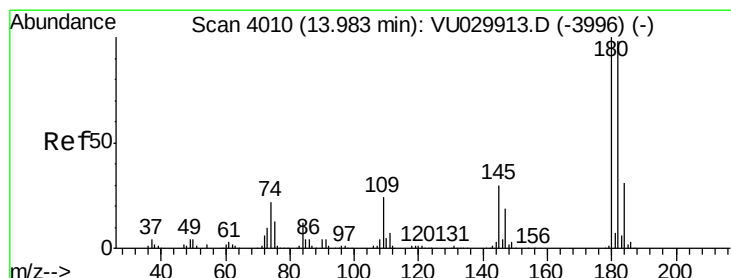
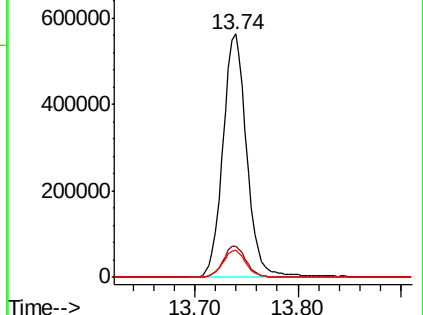
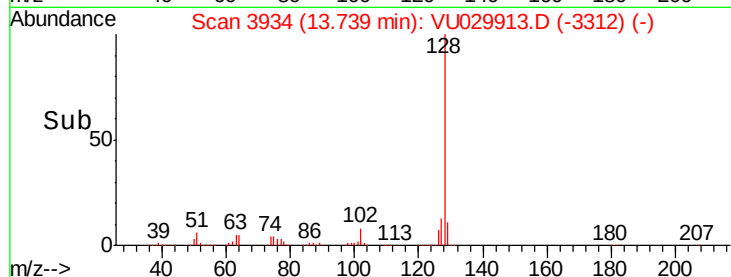
129 10.9 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 49.822 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU029913.D

Acq: 09 Mar 2019 12:04

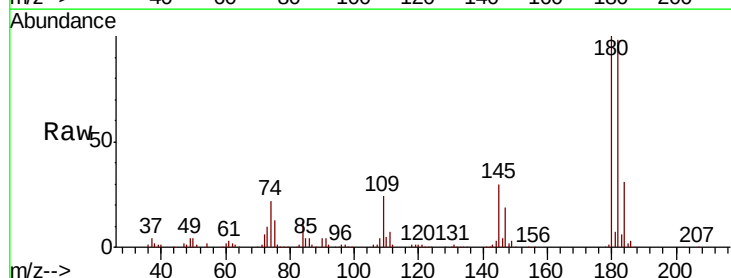
Tgt Ion:180 Resp: 304234

Ion Ratio Lower Upper

180 100

182 95.4 76.3 114.5

145 30.4 24.3 36.5



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

