

Data File : VU029388.D
Acq On : 11 Feb 2019 10:22
Operator : JC/SP
Sample : VSTD0.544
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.544

Quant Time: Feb 12 01:00:12 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR021119WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Feb 12 00:57:02 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	244239	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	228483	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	125100	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	9370	0.42	ug/L	0.00
7) Chloroethane-d5	1.68	69	7410	0.45	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.28	63	17816	0.44	ug/L	0.00
20) 2-Butanone-d5	4.21	46	15196	3.40	ug/L	0.01
24) Chloroform-d	4.65	84	13052	0.36	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	7593	0.39	ug/L	0.00
32) Benzene-d6	5.34	84	27490	0.43	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.33	67	8223	0.43	ug/L	0.00
41) Toluene-d8	7.57	98	26918	0.45	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.86	79	3703	0.44	ug/L	0.00
46) 2-Hexanone-d5	8.32	63	15246	3.97	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	6808	0.41	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	11039	0.45	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	9286	0.298 ug/L	96
3) Chloromethane	1.32	50	9728	0.351 ug/L	98
5) Vinyl chloride	1.40	62	10490	0.370 ug/L	97
6) Bromomethane	1.63	94	7138	0.454 ug/L	91
8) Chloroethane	1.70	64	6483	0.404 ug/L	96
9) Trichlorofluoromethane	1.88	101	15805	0.413 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	9519	0.477 ug/L #	93
12) 1,1-Dichloroethene	2.28	96	9171	0.498 ug/L #	81
13) Acetone	2.33	43	13360	3.904 ug/L	89
14) Carbon disulfide	2.48	76	30991	0.486 ug/L #	94
15) Methyl Acetate	2.62	43	3784	0.452 ug/L	92
16) Methylene chloride	2.70	84	10566	0.489 ug/L	99
17) Methyl tert-butyl Ether	3.00	73	23680	0.497 ug/L	97
18) trans-1,2-Dichloroethene	2.98	96	9937	0.493 ug/L	91
19) 1,1-Dichloroethane	3.44	63	15632	0.440 ug/L	97
21) 2-Butanone	4.29	43	14555	3.010 ug/L	95
22) cis-1,2-Dichloroethene	4.22	96	8610	0.438 ug/L	92
23) Bromochloromethane	4.55	128	3890	0.433 ug/L	89
25) Chloroform	4.68	83	13905	0.388 ug/L	98
27) 1,2-Dichloroethane	5.41	62	8087	0.338 ug/L	95
29) 1,1,1-Trichloroethane	4.91	97	12357	0.409 ug/L	98
30) Cyclohexane	4.99	56	11546	0.421 ug/L	98
31) Carbon tetrachloride	5.13	117	11267	0.434 ug/L	98
33) Benzene	5.39	78	28833	0.416 ug/L	100
34) Trichloroethene	6.19	95	8104	0.434 ug/L	97
35) Methylcyclohexane	6.41	83	14265	0.471 ug/L	97
37) 1,2-Dichloropropane	6.43	63	7661	0.421 ug/L	98
38) Bromodichloromethane	6.76	83	9895	0.407 ug/L #	94
39) cis-1,3-Dichloropropene	7.27	75	11285	0.425 ug/L	99
40) 4-Methyl-2-pentanone	7.47	43	39653	3.654 ug/L	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.64	91	32330	0.428	ug/L	95
44) trans-1,3-Dichloropropene	7.88	75	10113	0.442	ug/L	91
45) 1,1,2-Trichloroethane	8.07	97	6043	0.456	ug/L	89
47) Tetrachloroethene	8.22	164	7455	0.451	ug/L	99
48) 2-Hexanone	8.37	43	26108	3.335	ug/L	98
49) Dibromochloromethane	8.48	129	7327	0.435	ug/L	99
50) 1,2-Dibromoethane	8.59	107	5380	0.418	ug/L	99
51) Chlorobenzene	9.12	112	22576	0.449	ug/L	99
52) Ethylbenzene	9.25	91	36764	0.440	ug/L	97
53) m,p-xylene	9.38	106	14749	0.462	ug/L	99
54) o-xylene	9.78	106	14135	0.461	ug/L	100
55) Styrene	9.79	104	22779	0.433	ug/L	97
56) Isopropylbenzene	10.16	105	36729	0.446	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.46	83	7186	0.417	ug/L #	92
59) 1,2,3-Trichloropropane	11.49	75	17530	1.411	ug/L	94
61) Bromoform	9.95	173	4768	0.460	ug/L #	88
62) 1,3-Dichlorobenzene	11.42	146	18700	0.450	ug/L	97
63) 1,4-Dichlorobenzene	11.51	146	19327	0.439	ug/L	97
65) 1,2-Dichlorobenzene	11.88	146	17491	0.432	ug/L	94
66) 1,2-Dibromo-3-chloropropan	12.66	75	1210	0.427	ug/L #	85
67) 1,3,5-Trichlorobenzene	12.89	180	15286	0.438	ug/L	96
68) 1,2,4-trichlorobenzene	13.51	180	13248	0.448	ug/L	96
69) Naphthalene	13.75	128	19245	0.410	ug/L	98
70) 1,2,3-Trichlorobenzene	13.99	180	12021	0.441	ug/L	99

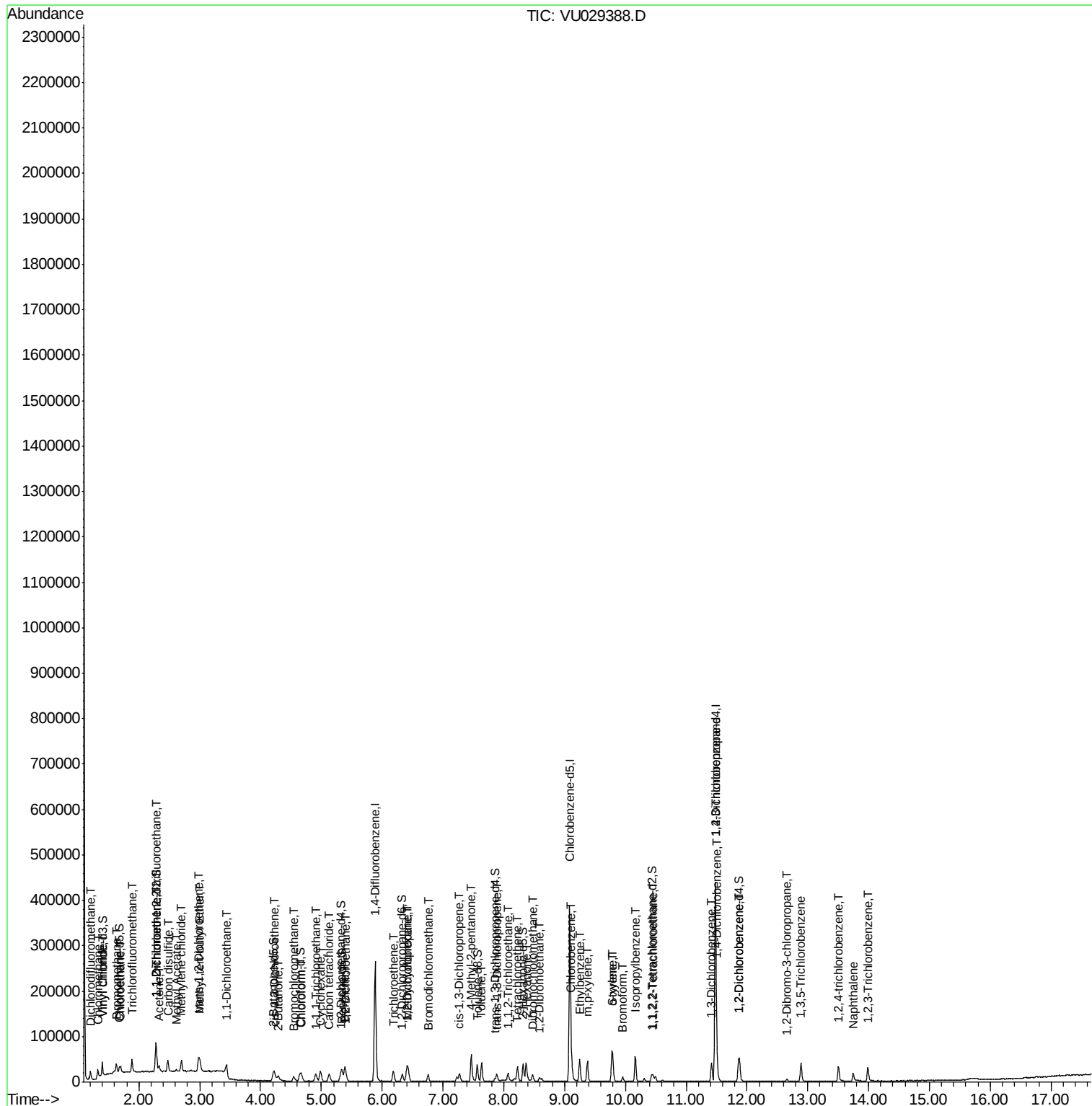
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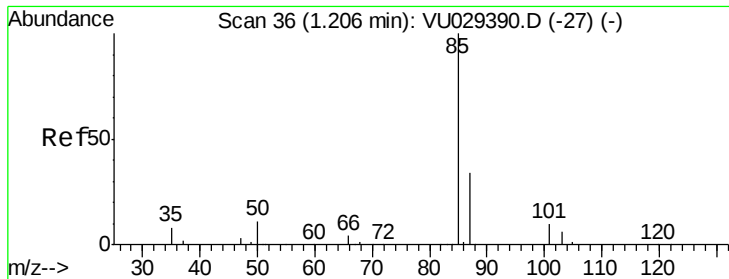
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#2

Dichlorodifluoromethane

Concen: 0.298 ug/L

RT: 1.21 min Scan# 36

Delta R.T. -0.00 min

Lab File: VU029388.D

Acq: 11 Feb 2019 10:22

Instrument :

MSVOA_U

ClientSampleId :

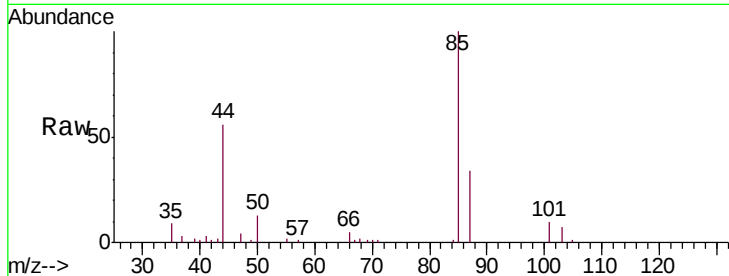
VSTD0.544

Tgt Ion: 85 Resp: 9286

Ion Ratio Lower Upper

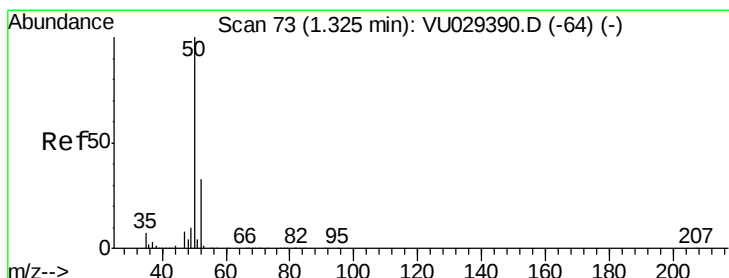
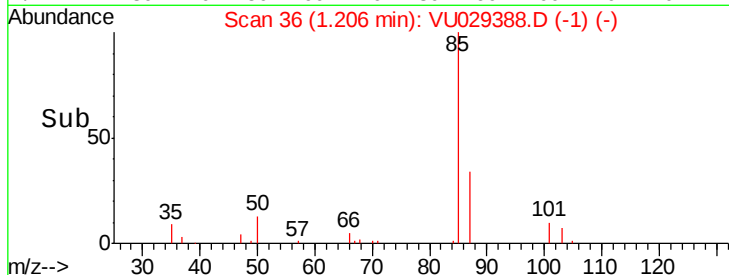
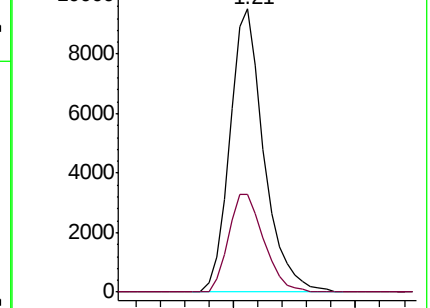
85 100

87 35.7 26.8 40.2



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 0.351 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU029388.D

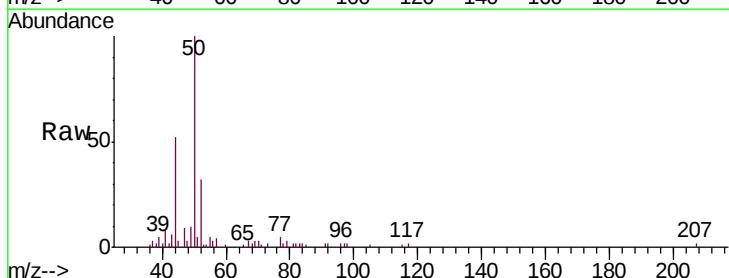
Acq: 11 Feb 2019 10:22

Tgt Ion: 50 Resp: 9728

Ion Ratio Lower Upper

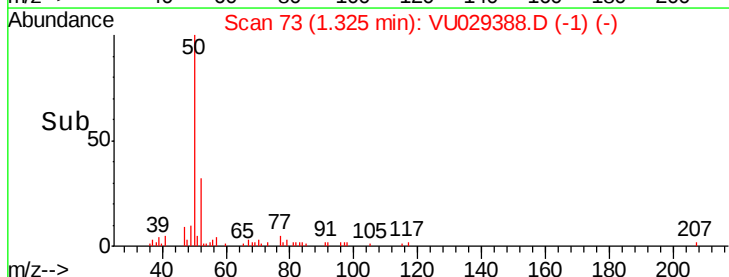
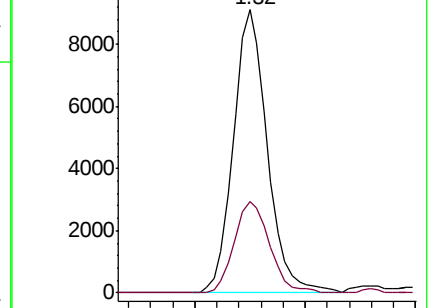
50 100

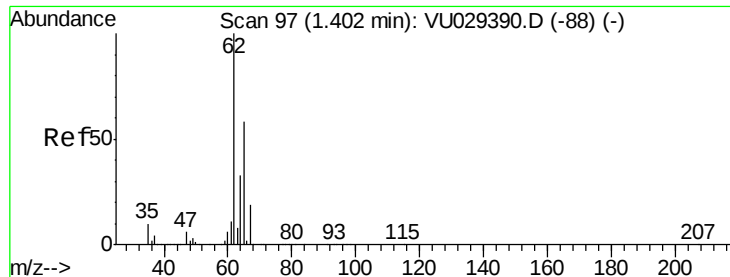
52 32.4 23.4 43.4



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 0.370 ug/L

RT: 1.40 min Scan# 97

Delta R.T. -0.00 min

Lab File: VU029388.D

Acq: 11 Feb 2019 10:22

Instrument :

MSVOA_U

ClientSampleId :

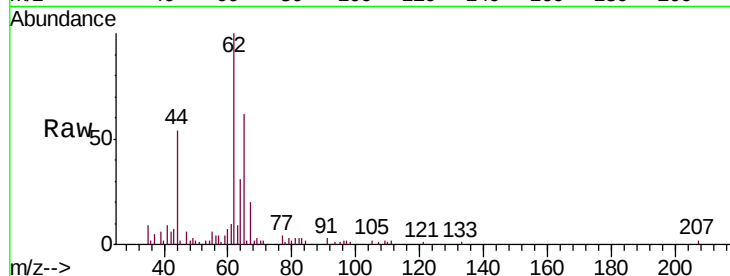
VSTD0.544

Tgt Ion: 62 Resp: 10490

Ion Ratio Lower Upper

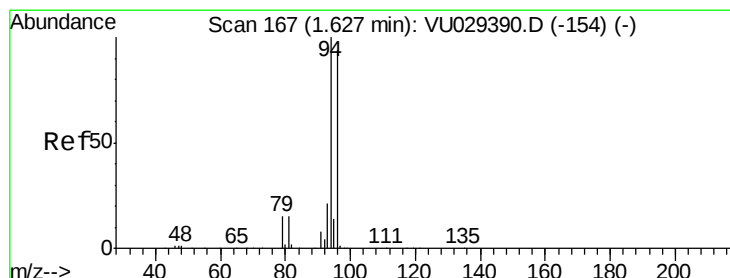
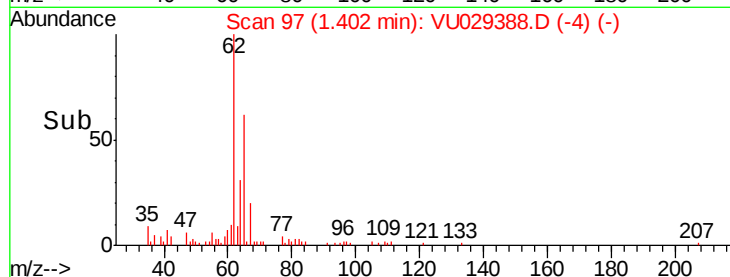
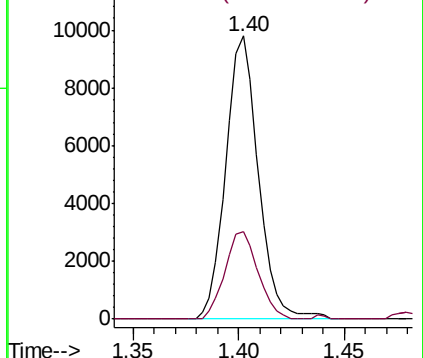
62 100

64 30.9 23.0 42.6



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 0.454 ug/L

RT: 1.63 min Scan# 168

Delta R.T. 0.00 min

Lab File: VU029388.D

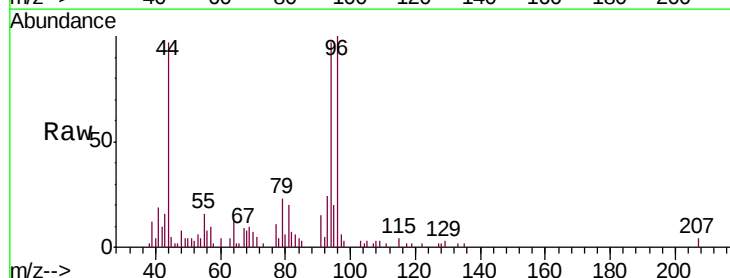
Acq: 11 Feb 2019 10:22

Tgt Ion: 94 Resp: 7138

Ion Ratio Lower Upper

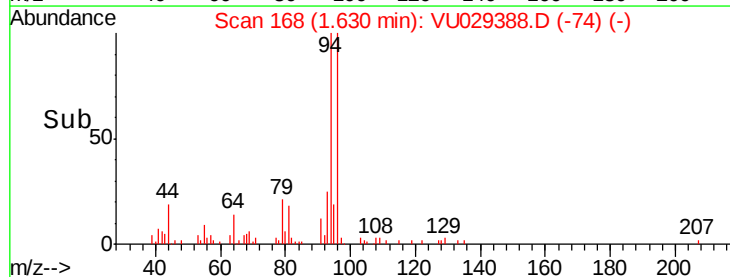
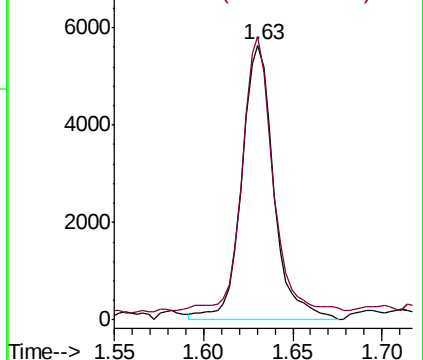
94 100

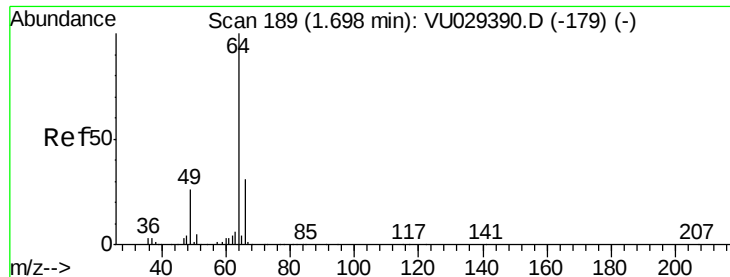
96 102.9 66.1 122.7



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

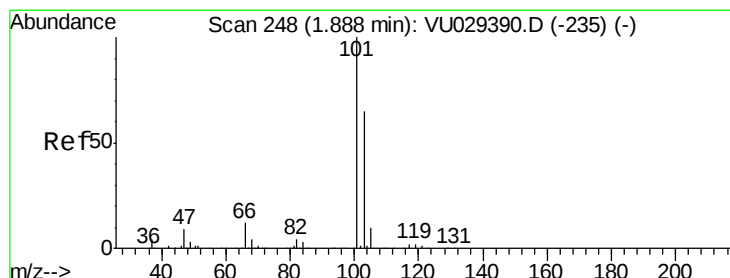
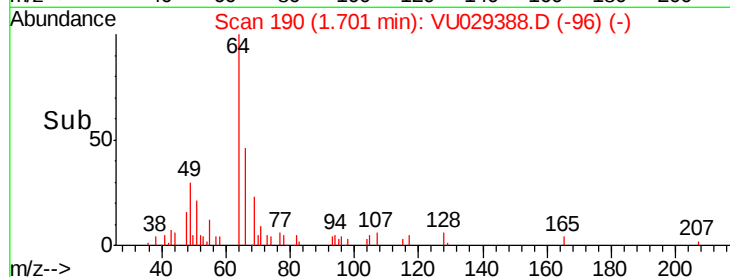
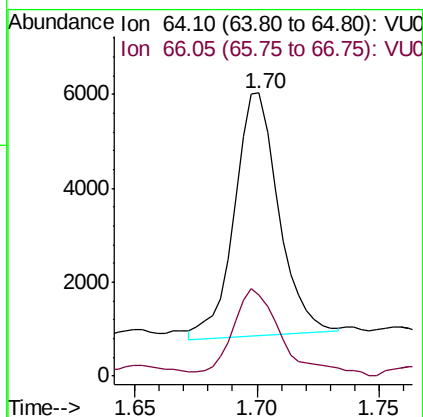
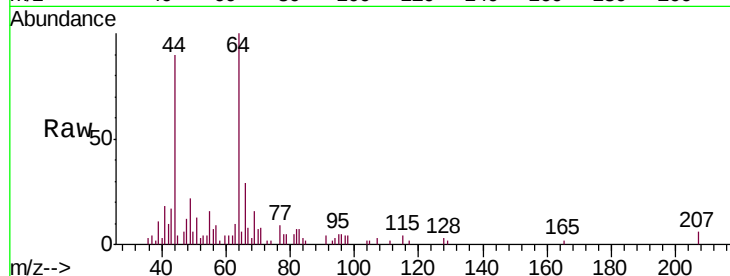




#8
Chloroethane
Concen: 0.404 ug/L
RT: 1.70 min Scan# 190
Delta R.T. 0.00 min
Lab File: VU029388.D
Acq: 11 Feb 2019 10:22

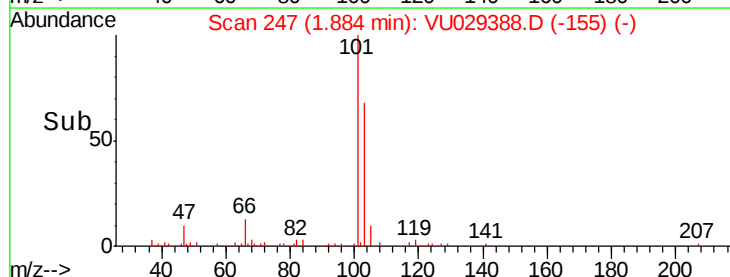
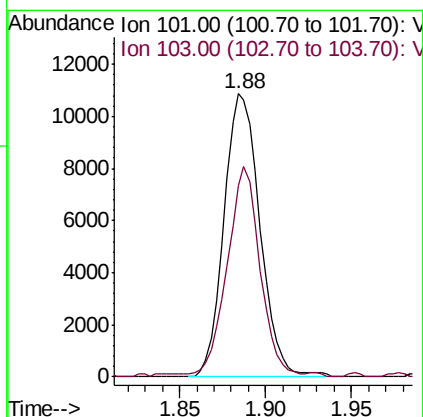
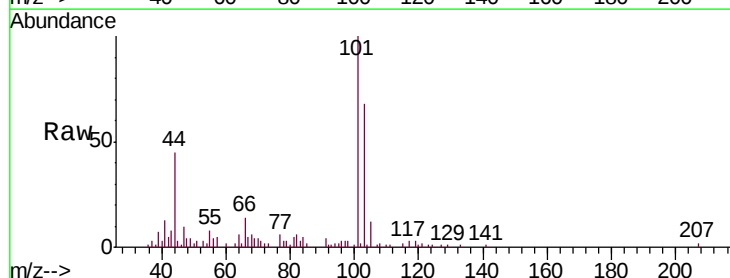
Instrument :
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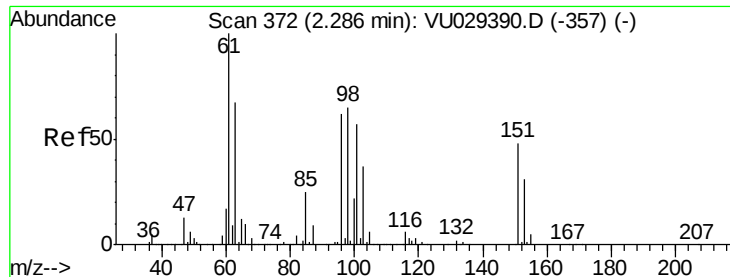
Tgt Ion: 64 Resp: 6483
Ion Ratio Lower Upper
64 100
66 28.9 21.8 40.4



#9
Trichlorofluoromethane
Concen: 0.413 ug/L
RT: 1.88 min Scan# 247
Delta R.T. -0.00 min
Lab File: VU029388.D
Acq: 11 Feb 2019 10:22

Tgt Ion: 101 Resp: 15805
Ion Ratio Lower Upper
101 100
103 65.5 51.8 77.6





#10

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

Concen: 0.477 ug/L

RT: 2.29 min Scan# 372

Delta R.T. -0.00 min

Lab File: VU029388.D

Acq: 11 Feb 2019 10:22

Instrument :

MSVOA_U

ClientSampled :

VSTD0.544

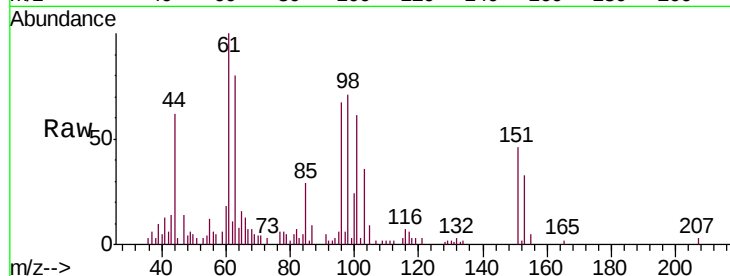
Tgt Ion: 101 Resp: 9519

Ion Ratio Lower Upper

101 100

85 53.3 34.9 52.3#

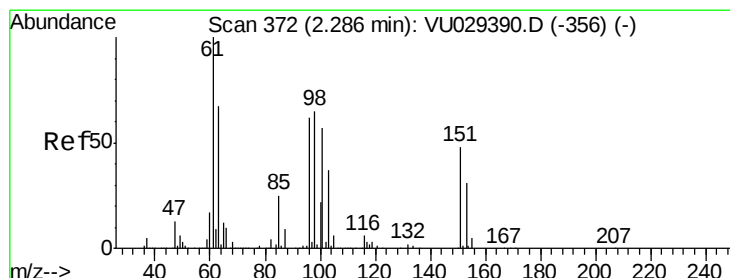
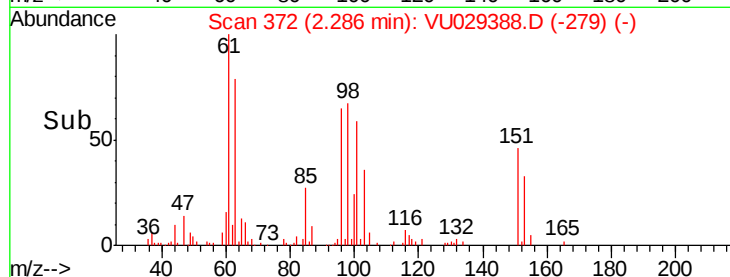
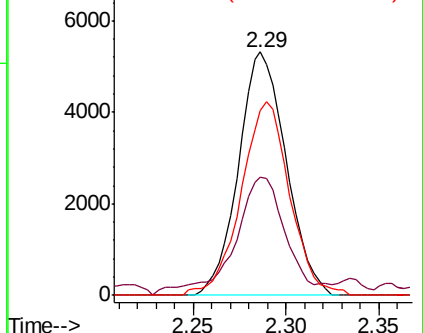
151 81.2 67.0 100.4



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: 0.498 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU029388.D

Acq: 11 Feb 2019 10:22

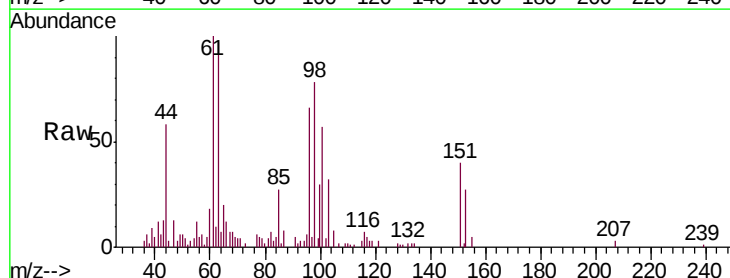
Tgt Ion: 96 Resp: 9171

Ion Ratio Lower Upper

96 100

61 151.7 112.4 208.8

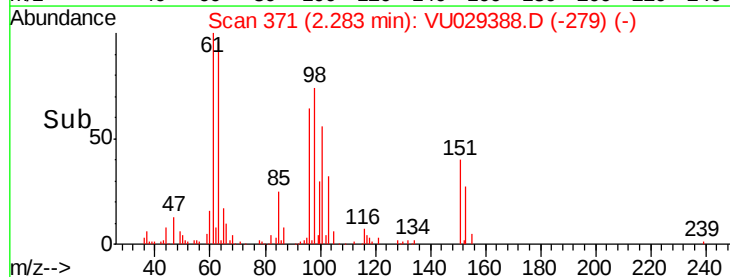
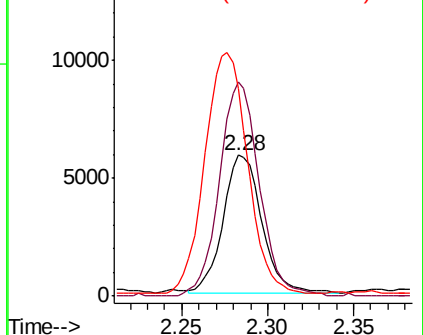
63 147.2 75.5 140.3#

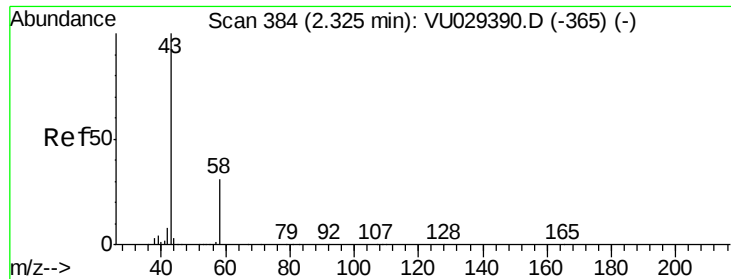


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 3.904 ug/L

RT: 2.33 min Scan# 386

Delta R.T. 0.01 min

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Acq: 11 Feb 2019 10:22

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ClientSampleId :

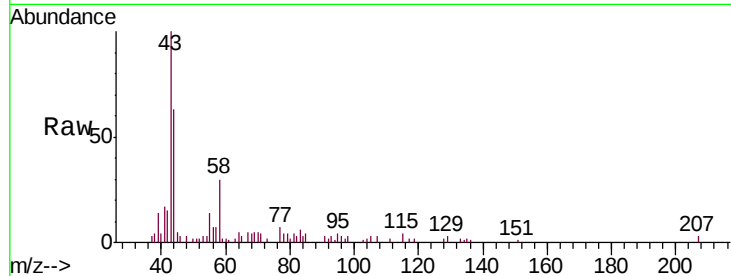
VSTD0.544

Tgt Ion: 43 Resp: 13360

Ion Ratio Lower Upper

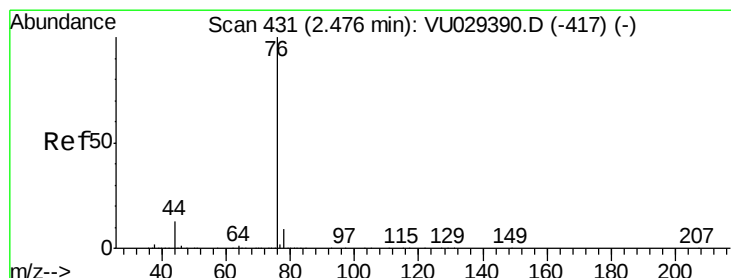
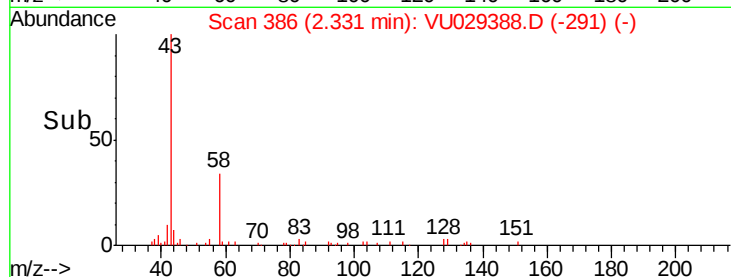
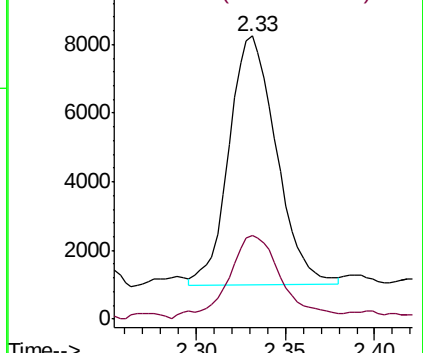
43 100

58 38.4 0.0 64.2



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#14

Carbon disulfide

Concen: 0.486 ug/L

RT: 2.48 min Scan# 431

Delta R.T. -0.00 min

Lab File: VU029388.D

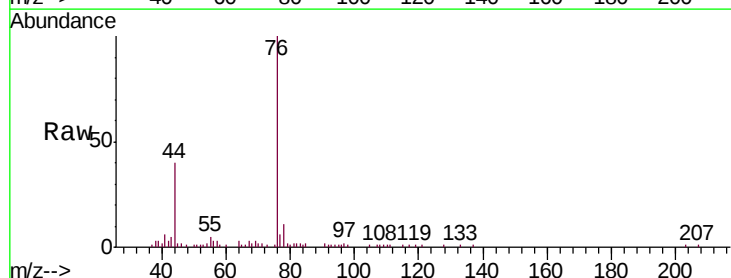
Acq: 11 Feb 2019 10:22

Tgt Ion: 76 Resp: 30991

Ion Ratio Lower Upper

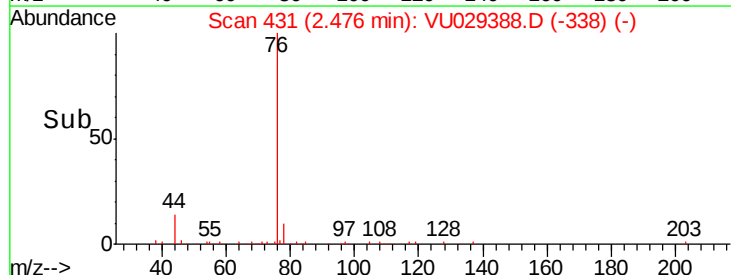
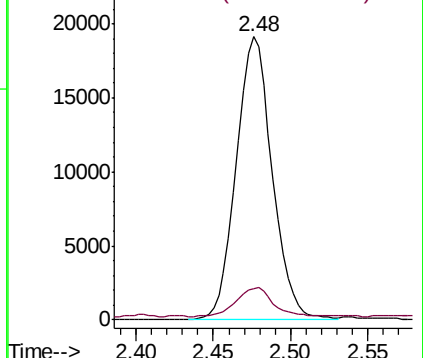
76 100

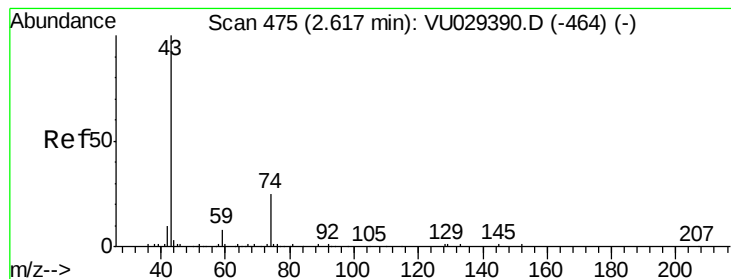
78 11.3 7.3 10.9#



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0





#15

Methyl Acetate

Concen: 0.452 ug/L

RT: 2.62 min Scan# 475

Delta R.T. -0.00 min

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Acq: 11 Feb 2019 10:22

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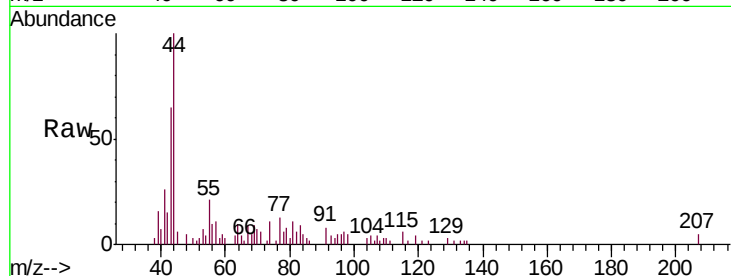
VSTD0.544

Tgt Ion: 43 Resp: 3784

Ion Ratio Lower Upper

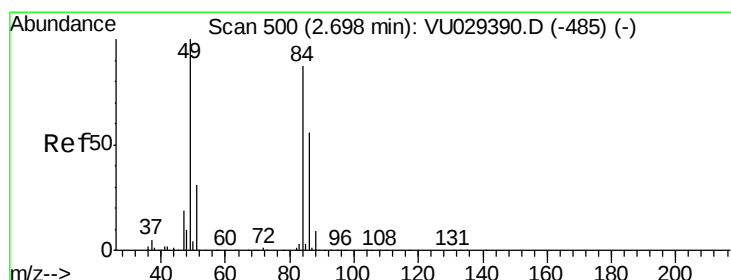
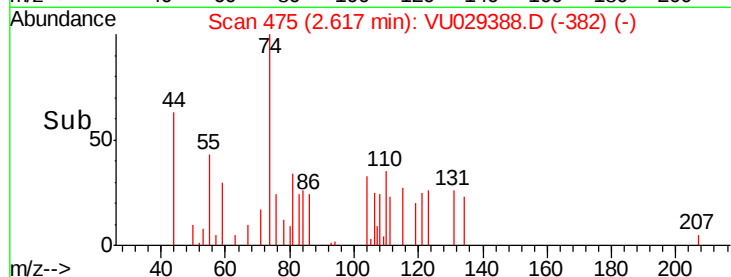
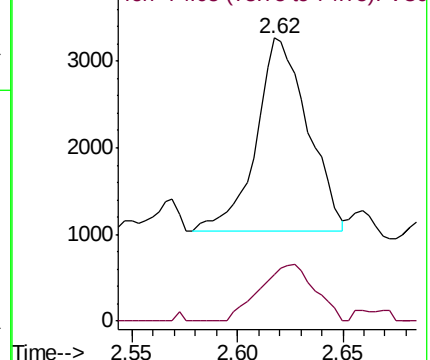
43 100

74 31.4 21.8 32.8



Abundance Ion 43.05 (42.75 to 43.75): VU029390.D (-464) (-)

Ion 74.05 (73.75 to 74.75): VU029390.D (-464) (-)



#16

Methylene chloride

Concen: 0.489 ug/L

RT: 2.70 min Scan# 500

Delta R.T. -0.00 min

Lab File: VU029388.D

Acq: 11 Feb 2019 10:22

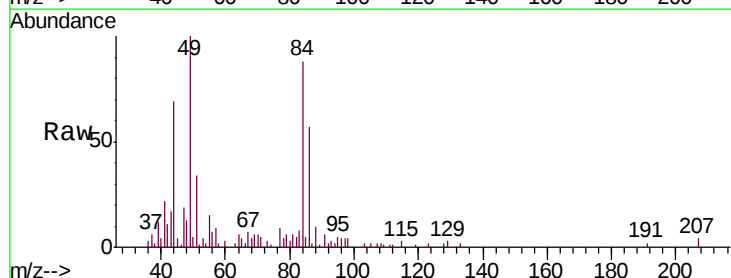
Tgt Ion: 84 Resp: 10566

Ion Ratio Lower Upper

84 100

86 65.5 44.7 82.9

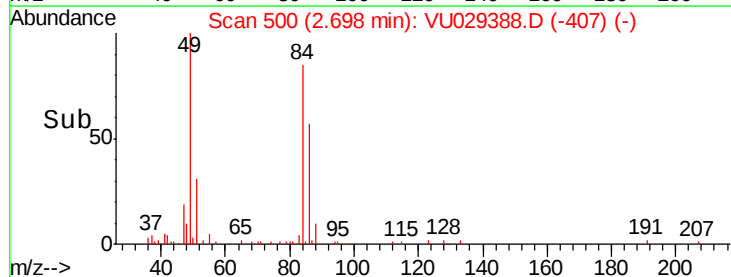
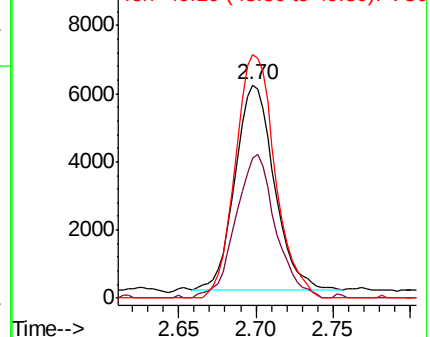
49 114.1 80.4 149.2

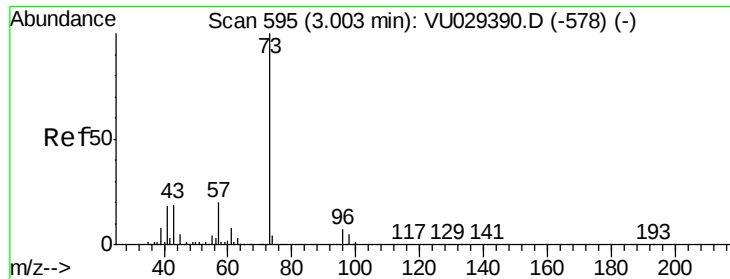


Abundance Ion 84.05 (83.75 to 84.75): VU029390.D (-485) (-)

Ion 86.00 (85.70 to 86.70): VU029390.D (-485) (-)

Ion 49.10 (48.80 to 49.80): VU029390.D (-485) (-)





#17

Methyl tert-butyl Ether

Concen: 0.497 ug/L

RT: 3.00 min Scan# 595

Delta R.T. -0.00 min

Lab File: VU029388.D

Acq: 11 Feb 2019 10:22

Instrument :

MSVOA_U

ClientSampled :

VSTD0.544

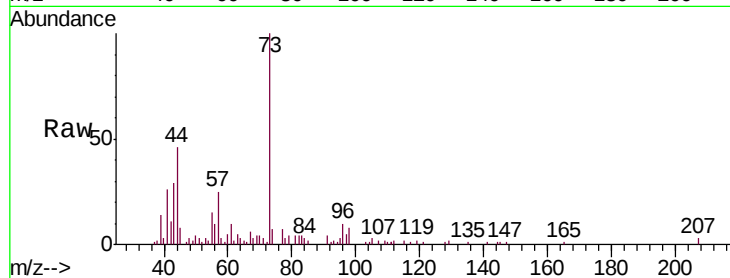
Tgt Ion: 73 Resp: 23680

Ion Ratio Lower Upper

73 100

43 19.0 15.9 23.9

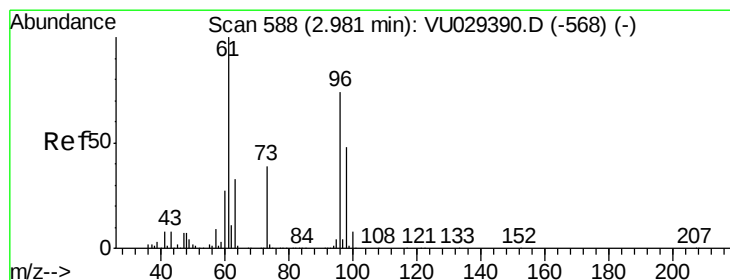
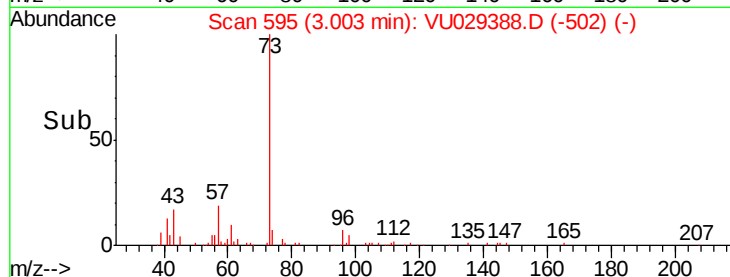
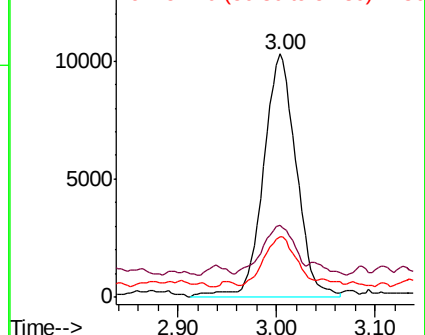
57 19.4 16.9 25.3



Abundance Ion 73.10 (72.80 to 73.80): VU0

Ion 43.05 (42.75 to 43.75): VU0

Ion 57.10 (56.80 to 57.80): VU0



#18

trans-1,2-Dichloroethene

Concen: 0.493 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU029388.D

Acq: 11 Feb 2019 10:22

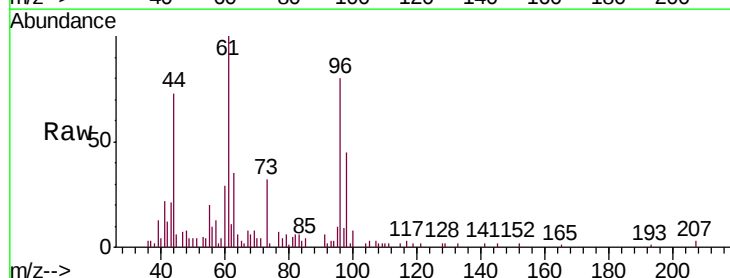
Tgt Ion: 96 Resp: 9937

Ion Ratio Lower Upper

96 100

61 125.4 94.8 176.0

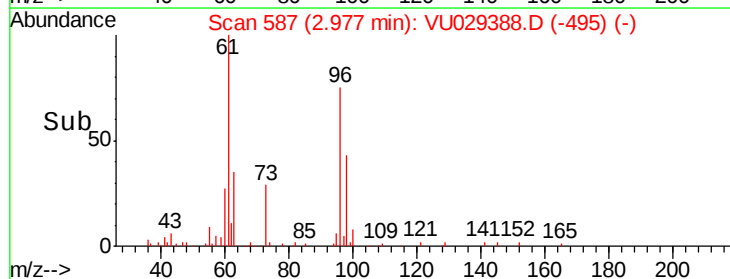
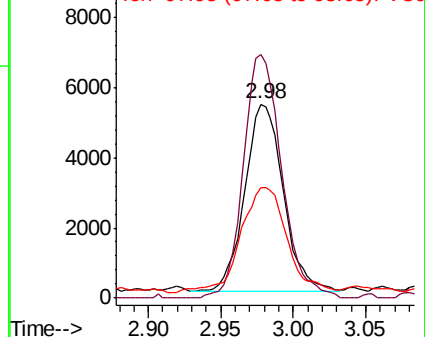
98 56.8 45.5 84.5

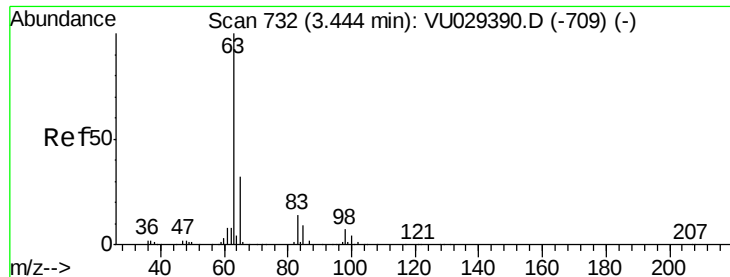


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 97.95 (97.65 to 98.65): VU0

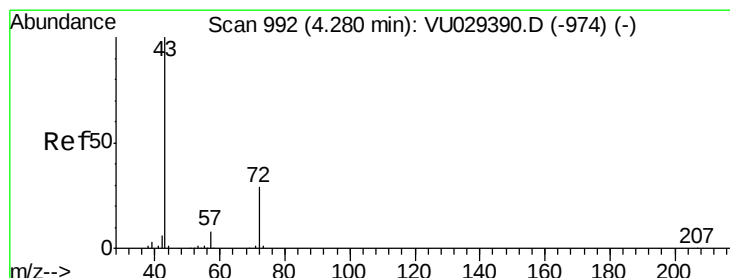
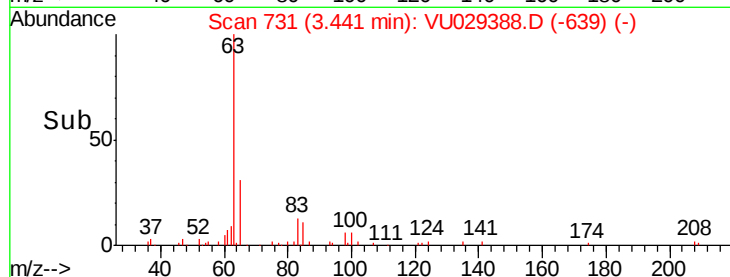
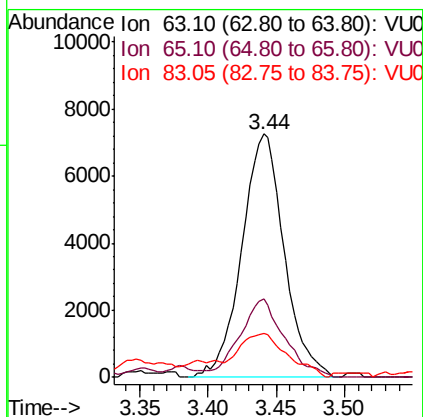
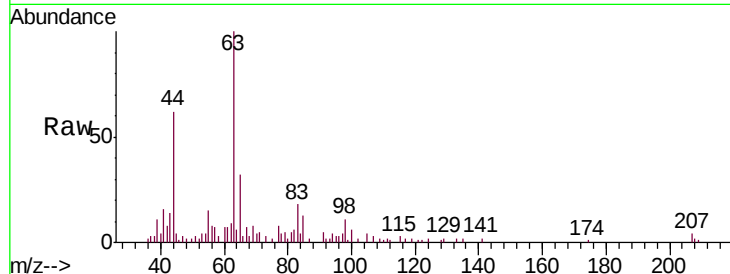




#19
 1,1-Dichloroethane
 Concen: 0.440 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. -0.00 min
 Lab File: VU029388.D
 Acq: 11 Feb 2019 10:22

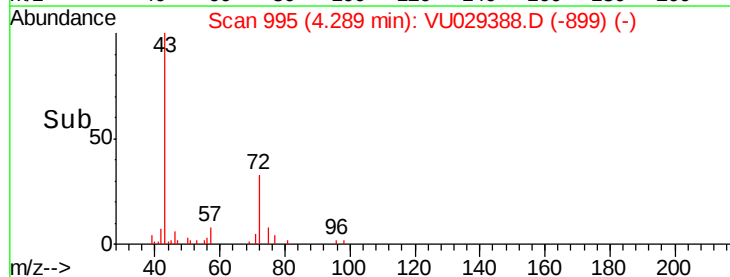
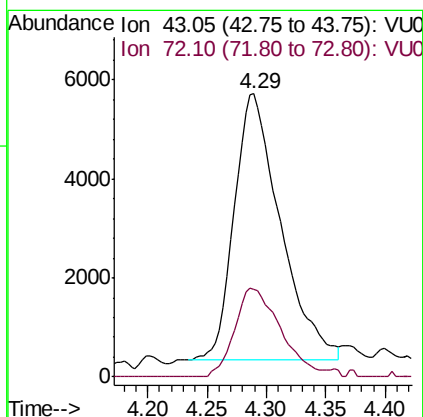
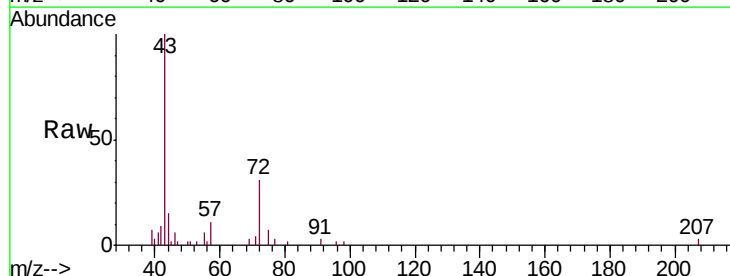
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.544

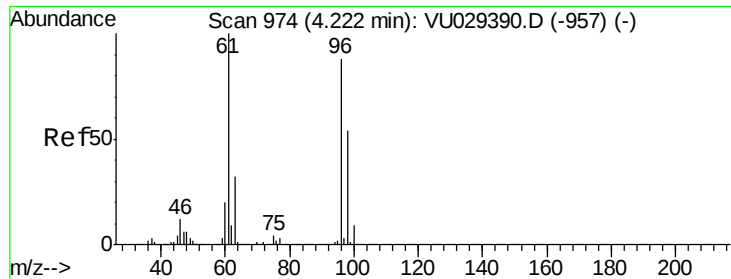
Tgt Ion	Ratio	Lower	Upper
63	100		
65	32.0	22.8	42.4
83	18.0	10.0	18.6



#21
 2-Butanone
 Concen: 3.010 ug/L
 RT: 4.29 min Scan# 995
 Delta R.T. 0.01 min
 Lab File: VU029388.D
 Acq: 11 Feb 2019 10:22

Tgt Ion	Ratio	Lower	Upper
43	100		
72	33.0	15.0	45.1



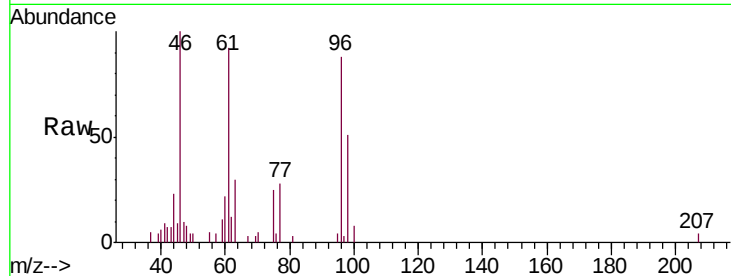


#22

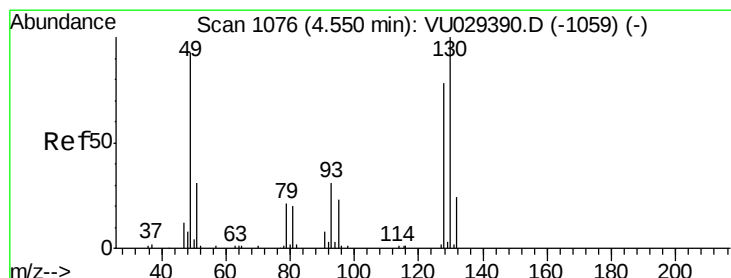
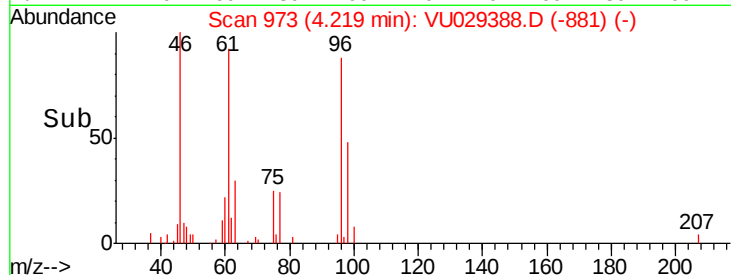
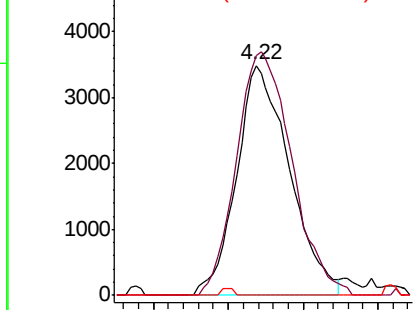
cis-1,2-Dichloroethene
Concen: 0.438 ug/L
RT: 4.22 min Scan# 973
Delta R.T. -0.00 min
Lab File: VU029388.D
Acq: 11 Feb 2019 10:22

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.544

Tgt Ion: 96 Resp: 8610
Ion Ratio Lower Upper
96 100
61 104.3 79.4 147.4
68 0.0 0.0 0.0



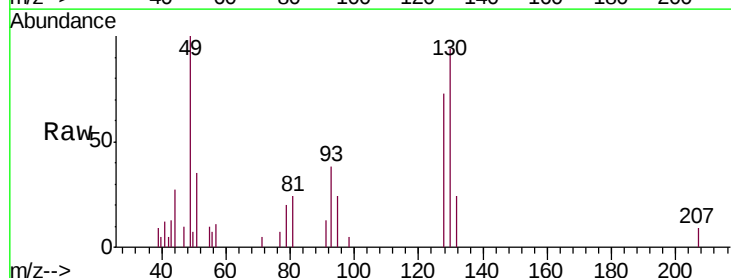
Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



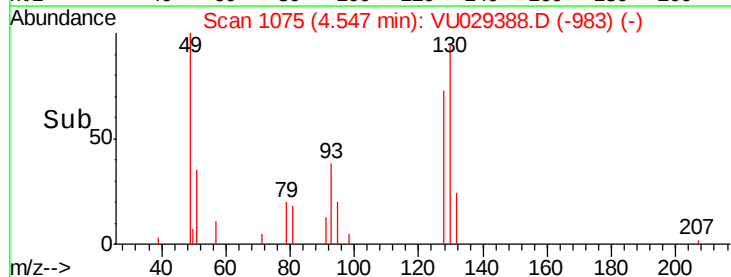
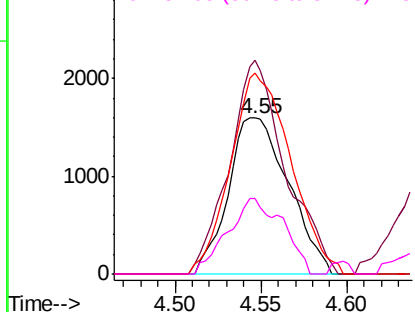
#23

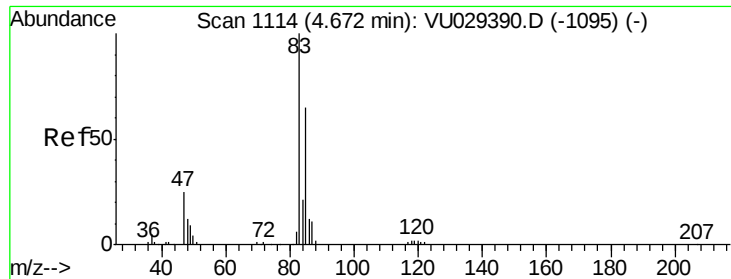
Bromochloromethane
Concen: 0.433 ug/L
RT: 4.55 min Scan# 1075
Delta R.T. -0.00 min
Lab File: VU029388.D
Acq: 11 Feb 2019 10:22

Tgt Ion: 128 Resp: 3890
Ion Ratio Lower Upper
128 100
49 145.8 84.4 156.7
130 128.9 90.1 167.3
51 48.3 32.3 48.5



Abundance Ion 127.90 (127.60 to 128.60): V
Ion 49.10 (48.80 to 49.80): VU0
Ion 129.95 (129.65 to 130.65): V
Ion 51.05 (50.75 to 51.75): VU0





#25

Chloroform

Concen: 0.388 ug/L

RT: 4.68 min Scan# 1115

Delta R.T. 0.00 min

Lab File: VU029388.D

Acq: 11 Feb 2019 10:22

Instrument :

MSVOA_U

ClientSampleId :

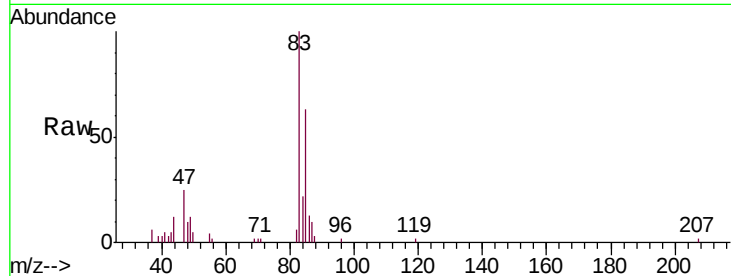
VSTD0.544

Tgt Ion: 83 Resp: 13905

Ion Ratio Lower Upper

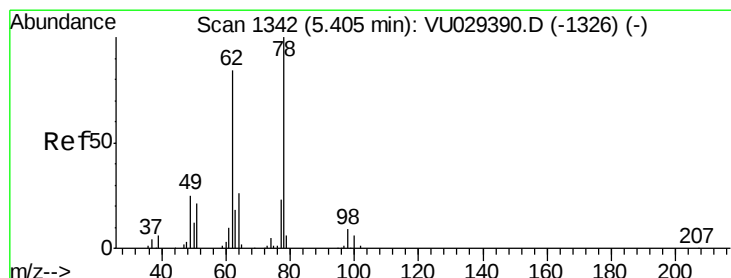
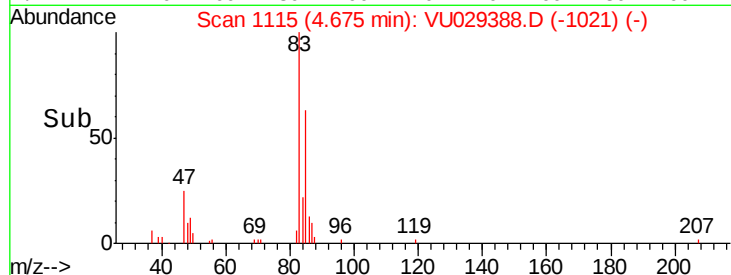
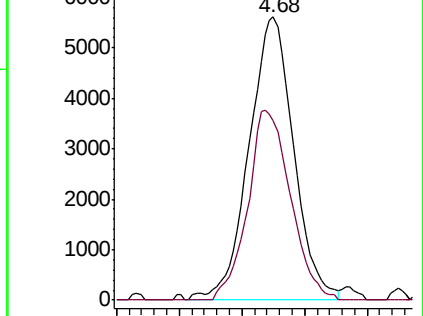
83 100

85 63.5 45.7 84.9



Abundance Ion 83.05 (82.75 to 83.75): VU0

Ion 85.00 (84.70 to 85.70): VU0



#27

1,2-Dichloroethane

Concen: 0.338 ug/L

RT: 5.41 min Scan# 1343

Delta R.T. 0.00 min

Lab File: VU029388.D

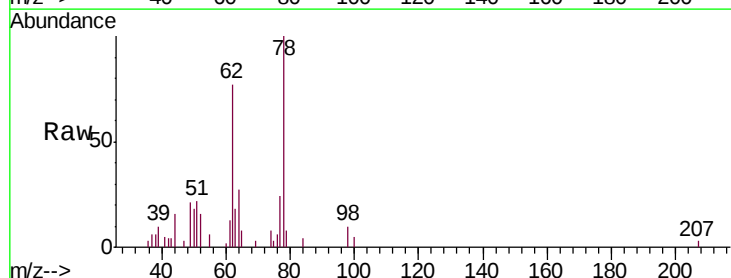
Acq: 11 Feb 2019 10:22

Tgt Ion: 62 Resp: 8087

Ion Ratio Lower Upper

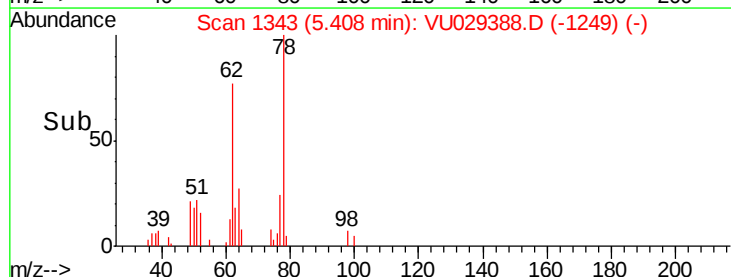
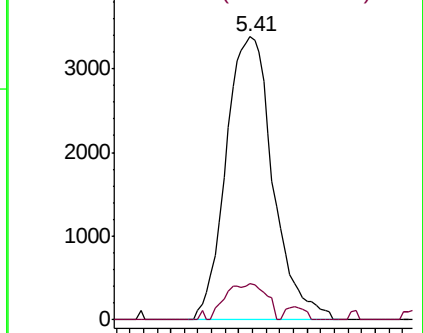
62 100

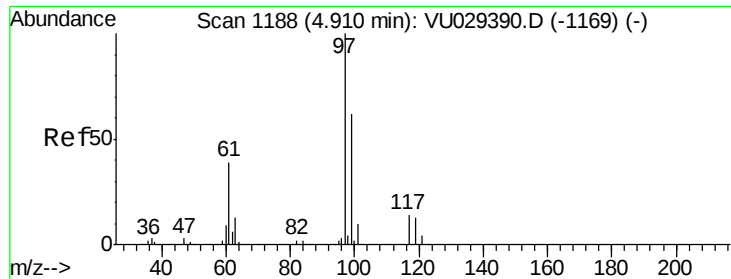
98 12.7 8.7 13.1



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.05 (97.75 to 98.75): VU0

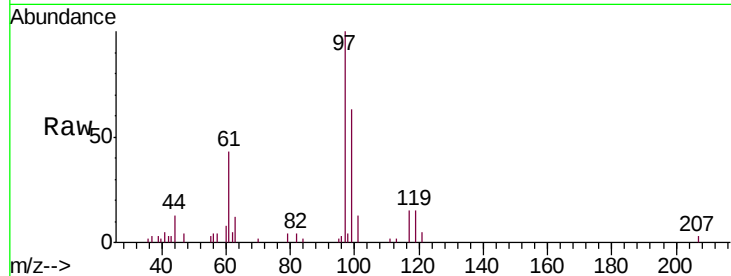




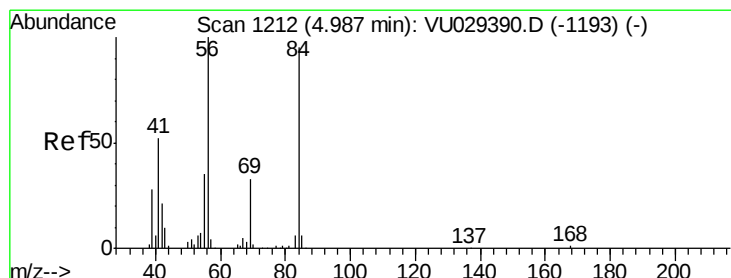
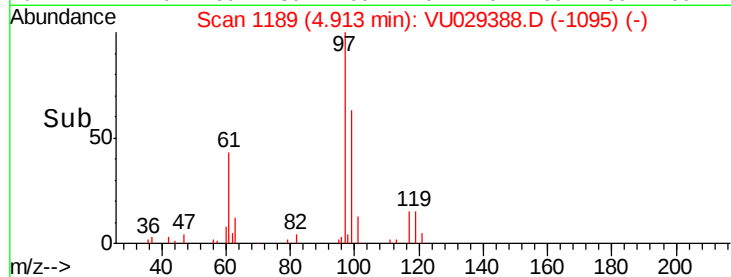
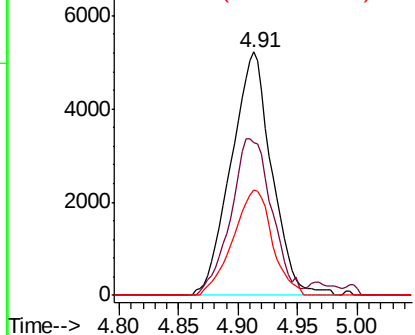
#29
 1,1,1-Trichloroethane
 Concen: 0.409 ug/L
 RT: 4.91 min Scan# 1189
 Delta R.T. 0.00 min
 Lab File: VU029388.D
 Acq: 11 Feb 2019 10:22

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.544

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.0	50.9	76.3
61	41.8	32.0	48.0

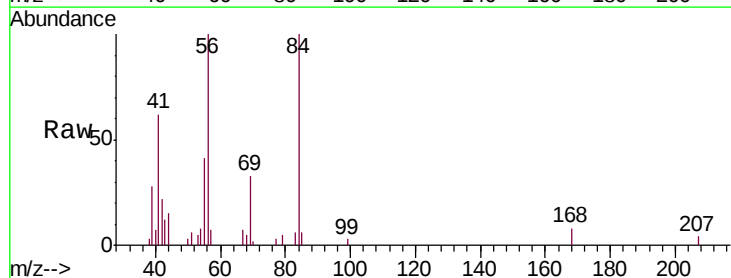


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

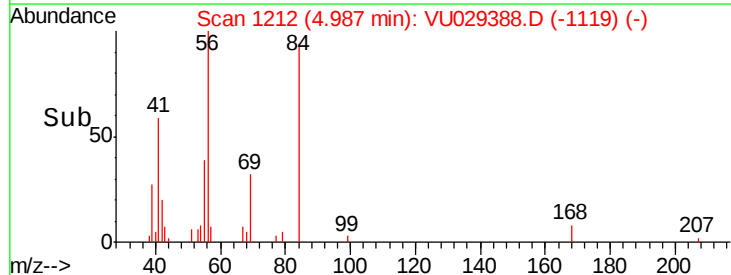
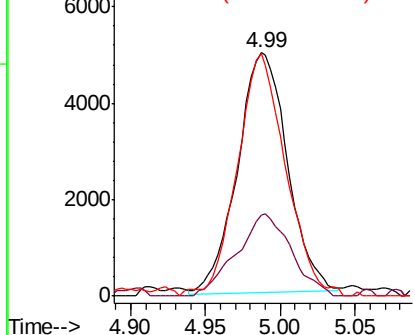


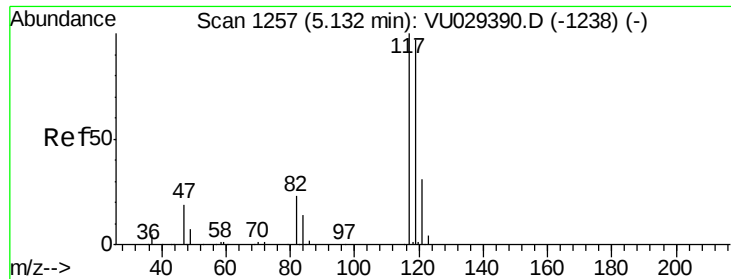
#30
 Cyclohexane
 Concen: 0.421 ug/L
 RT: 4.99 min Scan# 1212
 Delta R.T. -0.00 min
 Lab File: VU029388.D
 Acq: 11 Feb 2019 10:22

Tgt Ion	Ratio	Lower	Upper
56	100		
69	37.4	26.8	40.2
84	98.4	78.7	118.1



Abundance Ion 56.10 (55.80 to 56.80): VU0
 Ion 69.15 (68.85 to 69.85): VU0
 Ion 84.15 (83.85 to 84.85): VU0

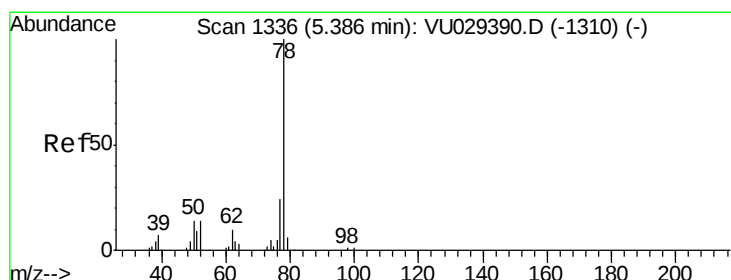
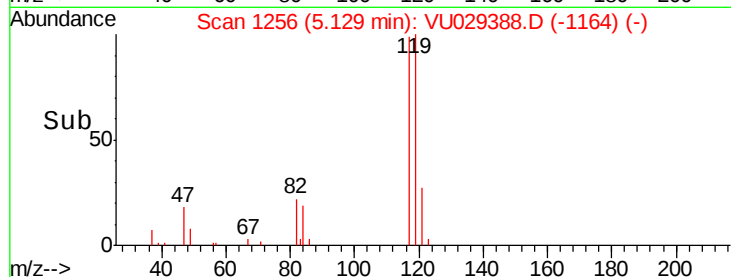
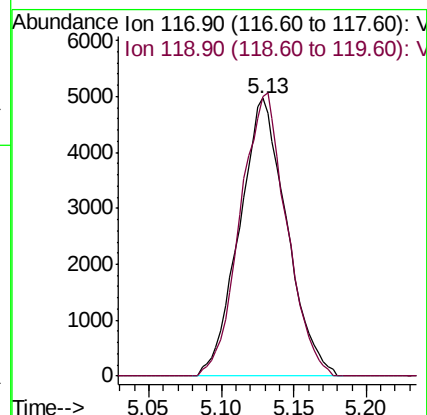
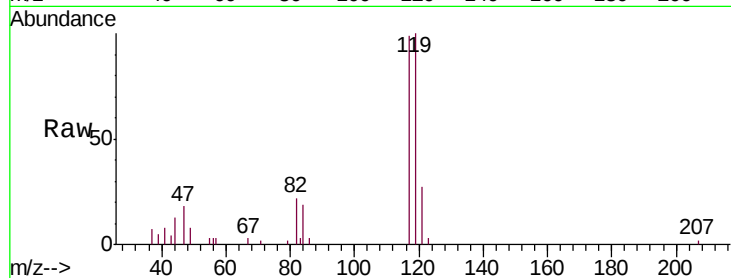




#31
Carbon tetrachloride
Concen: 0.434 ug/L
RT: 5.13 min Scan# 1256
Delta R.T. -0.00 min
Lab File: VU029388.D
Acq: 11 Feb 2019 10:22

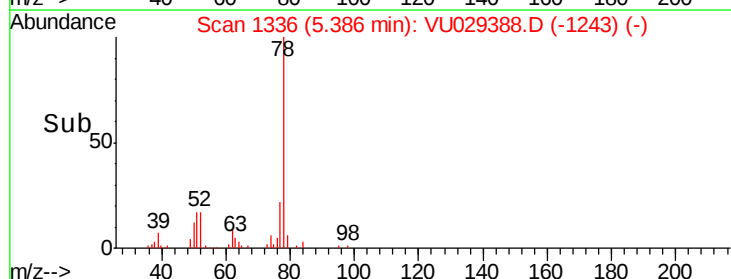
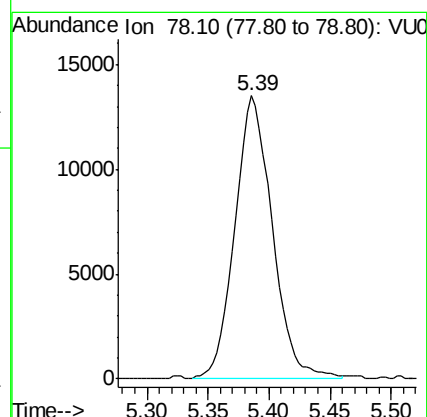
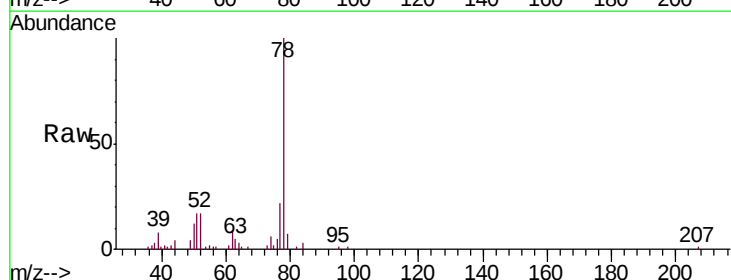
Instrument :
MSVOA_U
ClientSampleId :
VSTD0.544

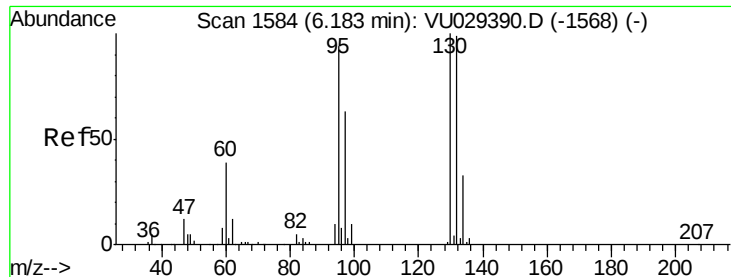
Tgt Ion:117 Resp: 11267
Ion Ratio Lower Upper
117 100
119 99.7 78.2 117.2



#33
Benzene
Concen: 0.416 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. -0.00 min
Lab File: VU029388.D
Acq: 11 Feb 2019 10:22

Tgt Ion: 78 Resp: 28833





#34

Trichloroethene

Concen: 0.434 ug/L

RT: 6.19 min Scan# 1585

Delta R.T. 0.00 min

Lab File: VU029388.D

Acq: 11 Feb 2019 10:22

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.544

Tgt Ion: 95 Resp: 8104

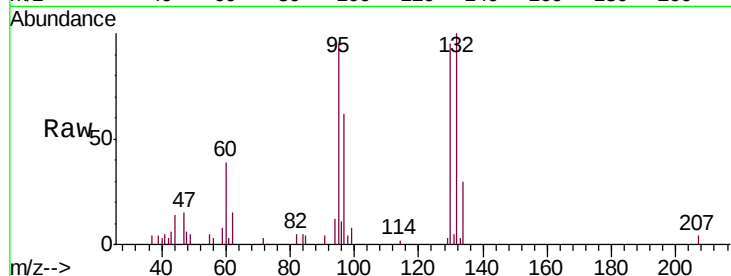
Ion Ratio Lower Upper

95 100

97 64.6 46.5 86.5

132 105.1 73.3 136.1

130 99.9 74.1 137.7

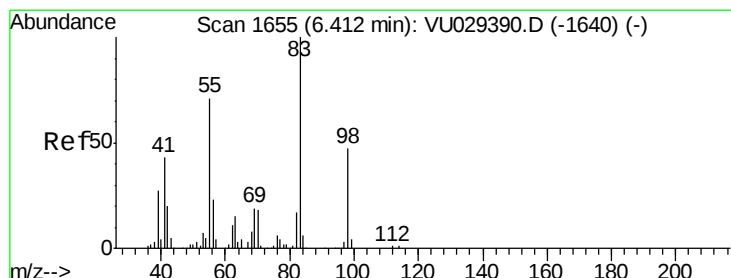
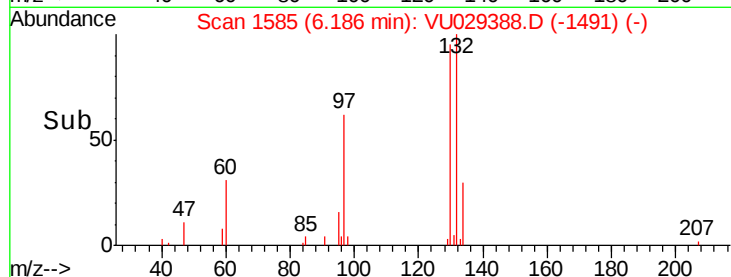
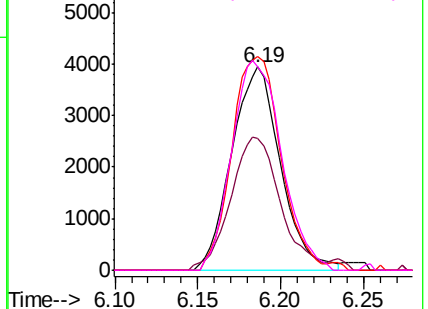


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 0.471 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VU029388.D

Acq: 11 Feb 2019 10:22

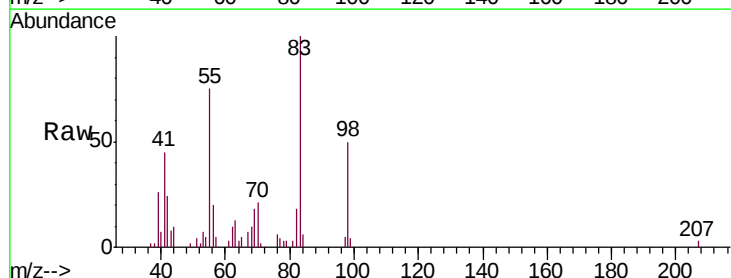
Tgt Ion: 83 Resp: 14265

Ion Ratio Lower Upper

83 100

55 66.0 55.3 82.9

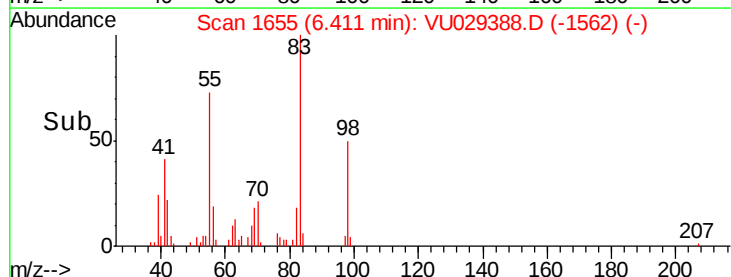
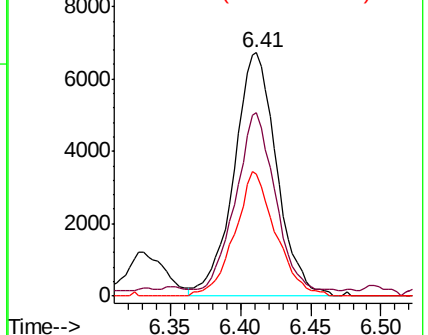
98 48.8 37.9 56.9

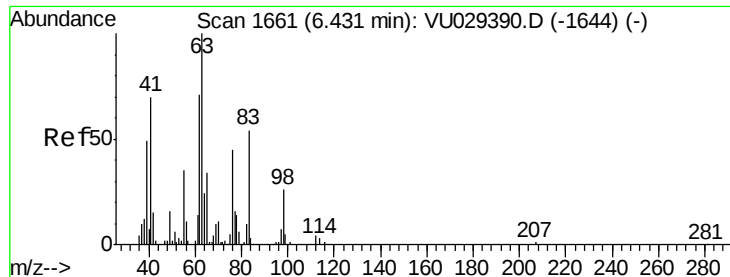


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 0.421 ug/L

RT: 6.43 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VU029388.D

Acq: 11 Feb 2019 10:22

Instrument :

MSVOA_U

ClientSampleId :

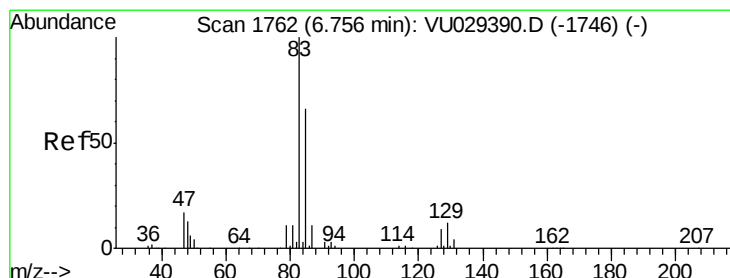
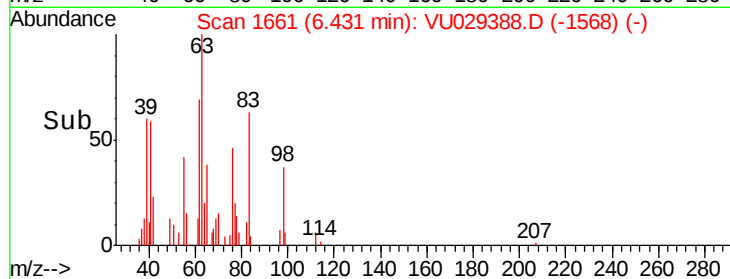
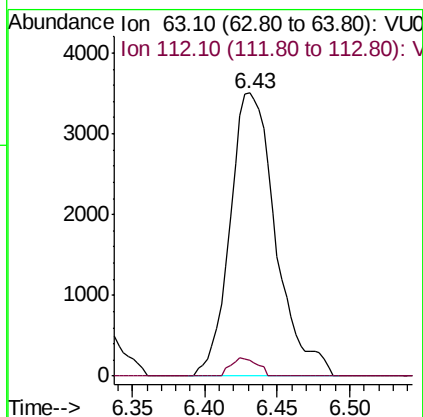
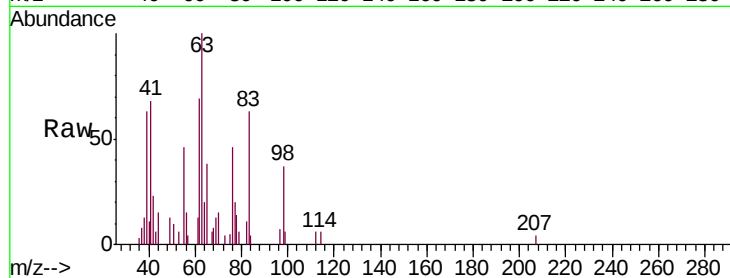
VSTD0.544

Tgt Ion: 63 Resp: 7661

Ion Ratio Lower Upper

63 100

112 3.7 3.5 5.3



#38

Bromodichloromethane

Concen: 0.407 ug/L

RT: 6.76 min Scan# 1763

Delta R.T. 0.00 min

Lab File: VU029388.D

Acq: 11 Feb 2019 10:22

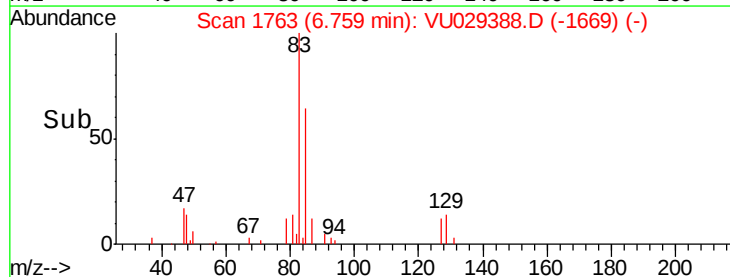
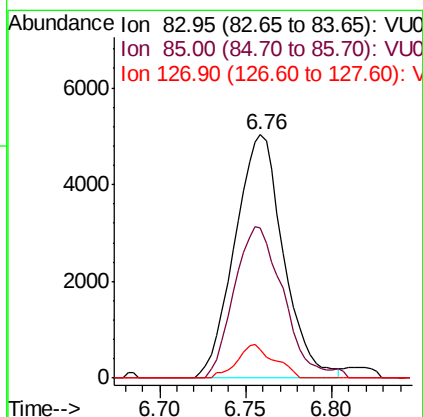
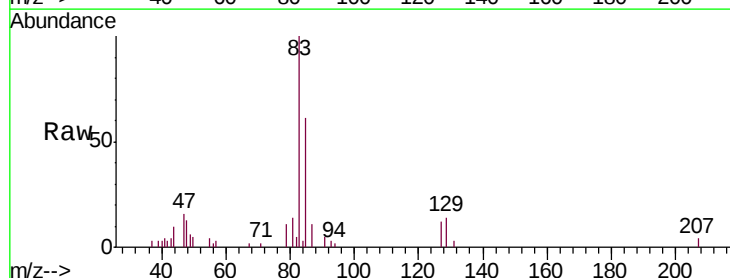
Tgt Ion: 83 Resp: 9895

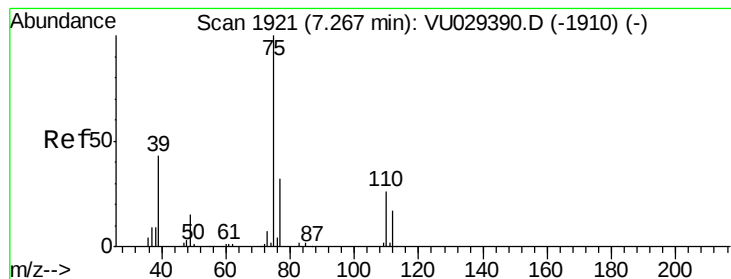
Ion Ratio Lower Upper

83 100

85 61.4 46.0 85.4

127 11.6 7.4 11.0#



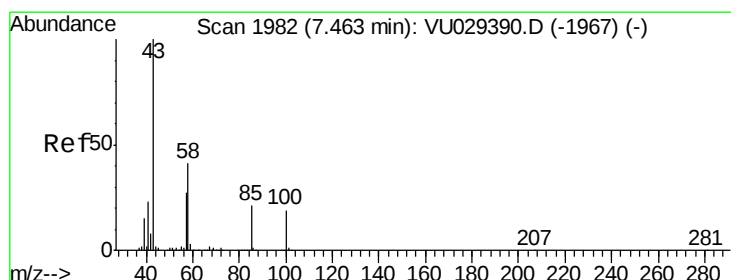
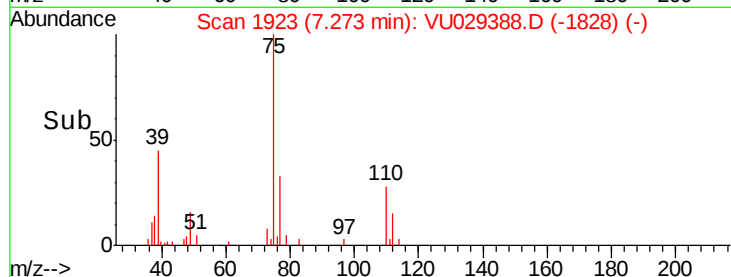
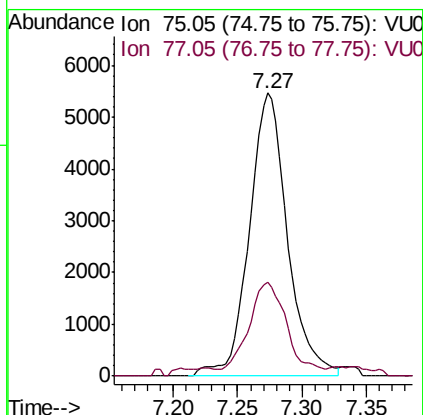
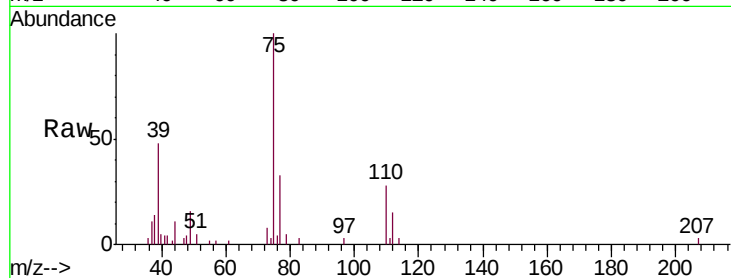


#39

cis-1,3-Dichloropropene
Concen: 0.425 ug/L
RT: 7.27 min Scan# 1923
Delta R.T. 0.01 min
Lab File: VU029388.D
Acq: 11 Feb 2019 10:22

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.544

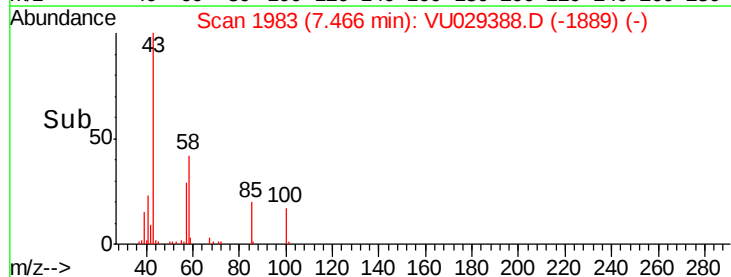
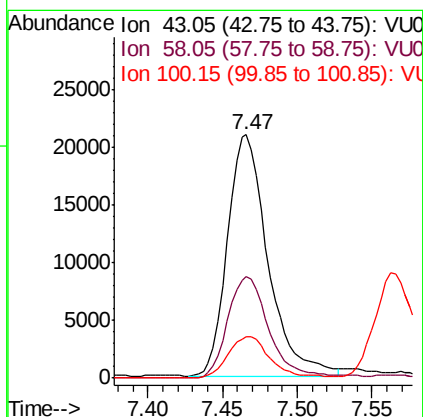
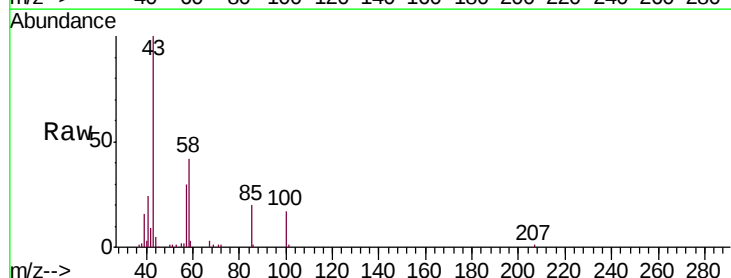
Tgt Ion: 75 Resp: 11285
Ion Ratio Lower Upper
75 100
77 33.2 22.9 42.5

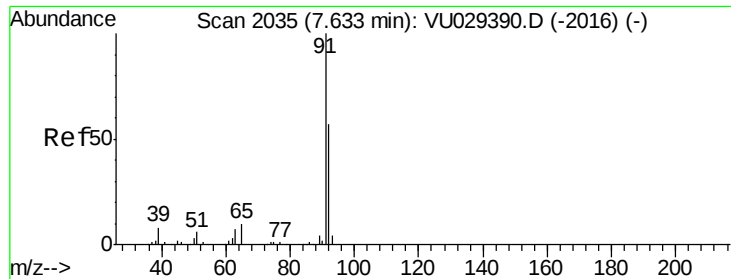


#40

4-Methyl-2-pentanone
Concen: 3.654 ug/L
RT: 7.47 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VU029388.D
Acq: 11 Feb 2019 10:22

Tgt Ion: 43 Resp: 39653
Ion Ratio Lower Upper
43 100
58 43.1 33.0 49.4
100 17.3 14.6 21.8





#42

Toluene

Concen: 0.428 ug/L

RT: 7.64 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VU029388.D

Acq: 11 Feb 2019 10:22

Instrument :

MSVOA_U

ClientSampleId :

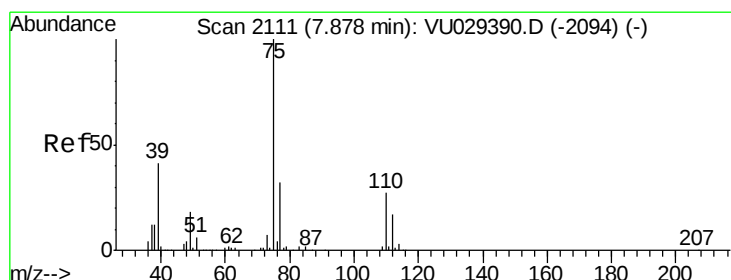
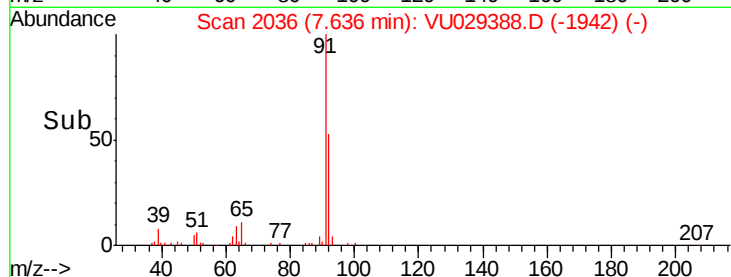
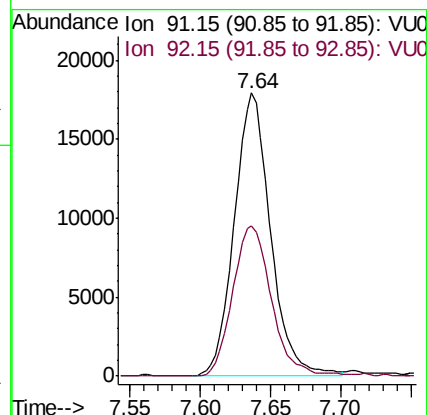
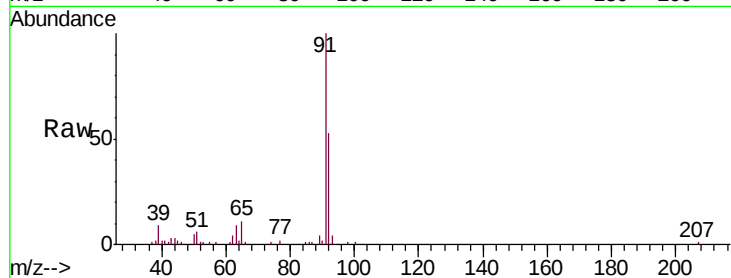
VSTD0.544

Tgt Ion: 91 Resp: 32330

Ion Ratio Lower Upper

91 100

92 53.3 39.7 73.7



#44

trans-1,3-Dichloropropene

Concen: 0.442 ug/L

RT: 7.88 min Scan# 2113

Delta R.T. 0.01 min

Lab File: VU029388.D

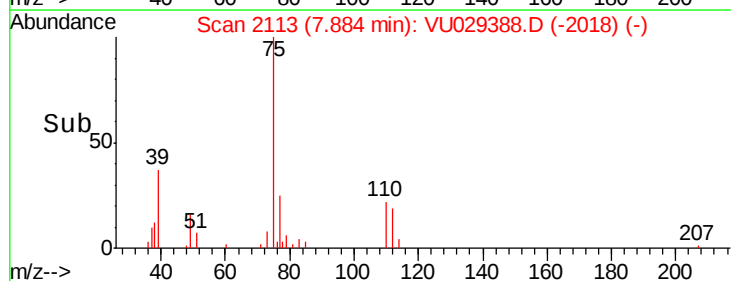
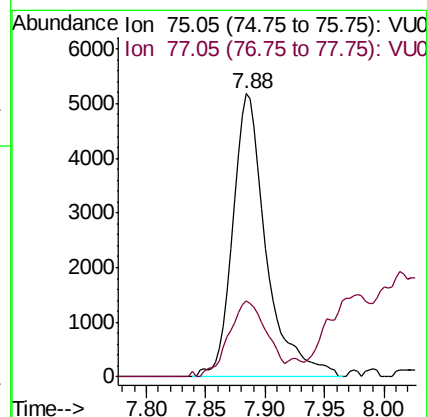
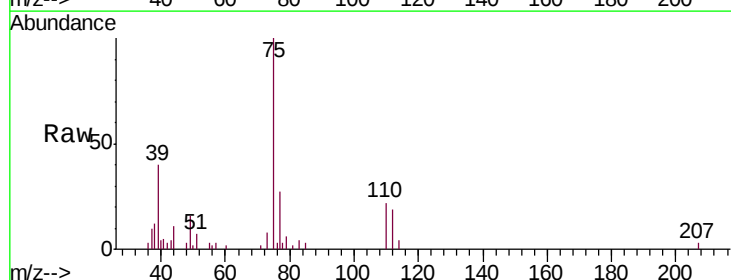
Acq: 11 Feb 2019 10:22

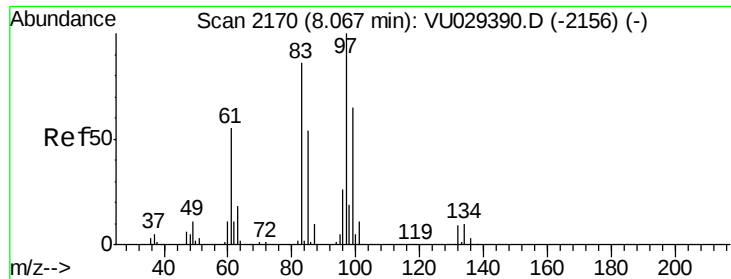
Tgt Ion: 75 Resp: 10113

Ion Ratio Lower Upper

75 100

77 26.7 22.3 41.5





#45

1,1,2-Trichloroethane

Concen: 0.456 ug/L

RT: 8.07 min Scan# 2171

Delta R.T. 0.00 min

Lab File: VU029388.D

Acq: 11 Feb 2019 10:22

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.544

Tgt Ion: 97 Resp: 6043

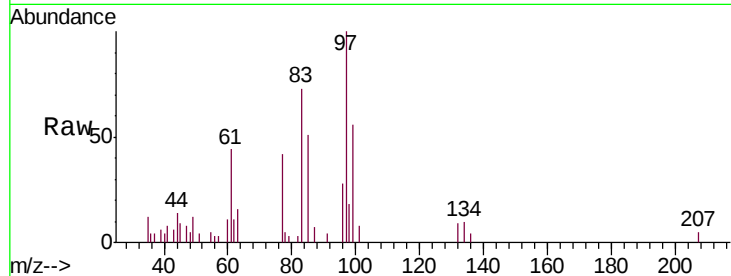
Ion Ratio Lower Upper

97 100

99 55.9 45.7 84.9

83 73.0 60.2 111.8

85 51.3 37.7 70.1



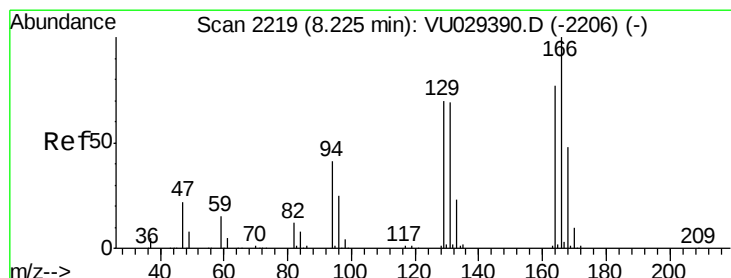
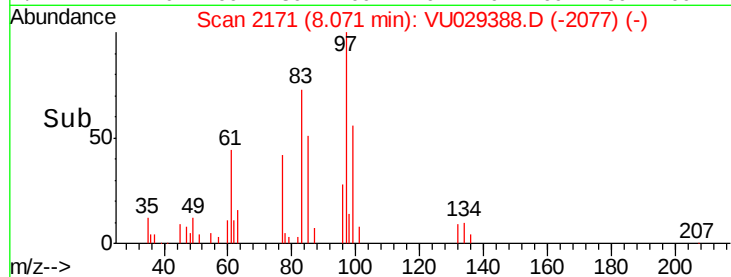
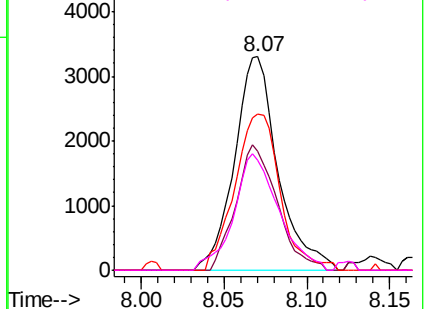
Abundance

Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47

Tetrachloroethene

Concen: 0.451 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. -0.00 min

Lab File: VU029388.D

Acq: 11 Feb 2019 10:22

Tgt Ion:164 Resp: 7455

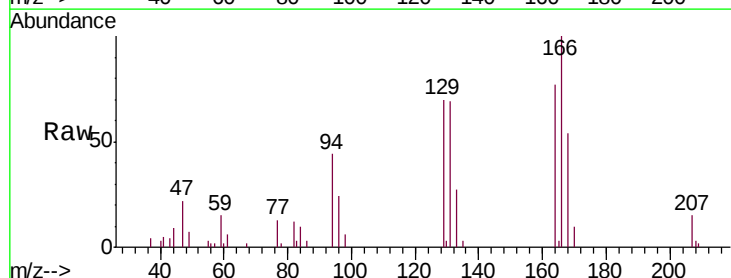
Ion Ratio Lower Upper

164 100

129 91.1 63.4 117.8

131 90.2 62.2 115.4

166 130.4 90.4 168.0



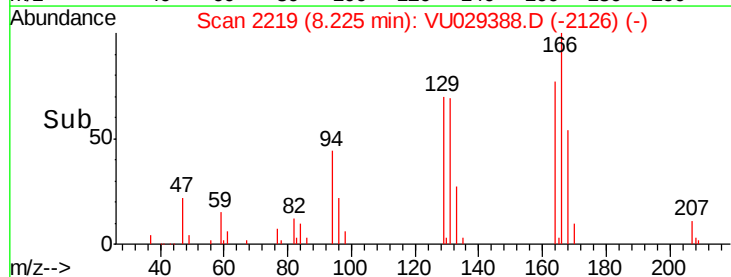
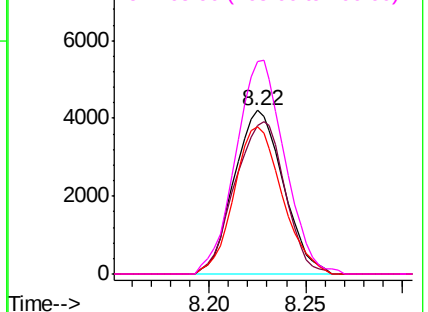
Abundance

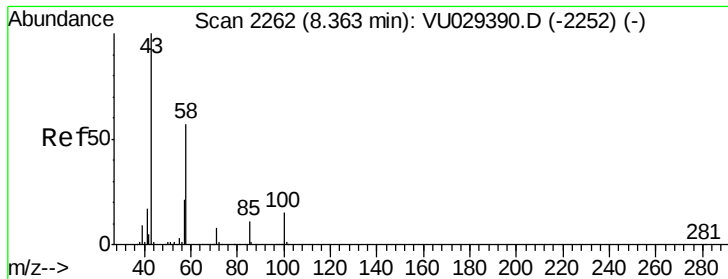
Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

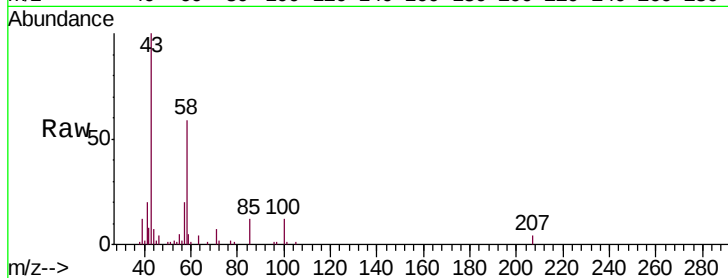




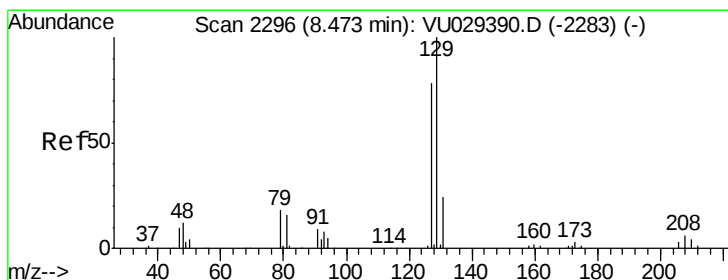
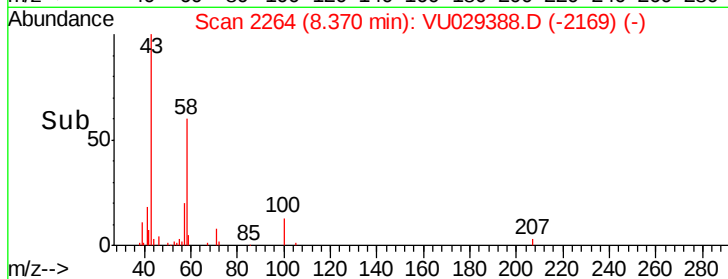
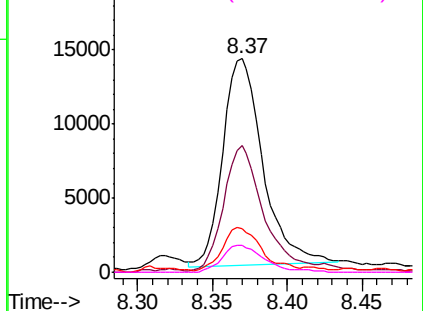
#48
2-Hexanone
Concen: 3.335 ug/L
RT: 8.37 min Scan# 2264
Delta R.T. 0.01 min
Lab File: VU029388.D
Acq: 11 Feb 2019 10:22

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.544

Tgt Ion:	43	Resp:	26108
Ion	Ratio	Lower	Upper
43	100		
58	58.9	45.8	68.6
57	19.9	16.4	24.6
100	13.8	11.4	17.0

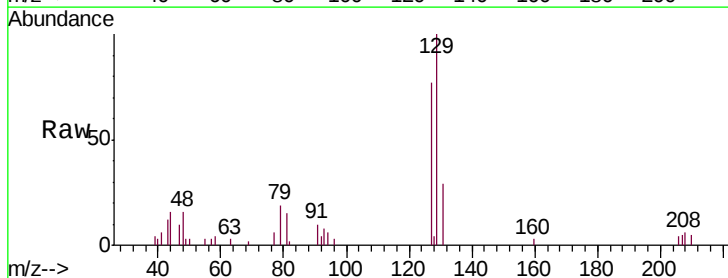


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

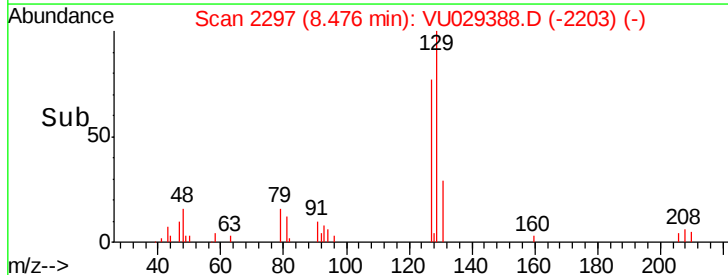
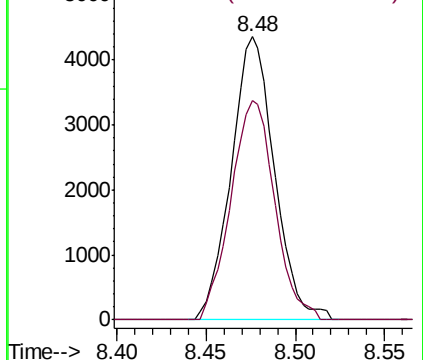


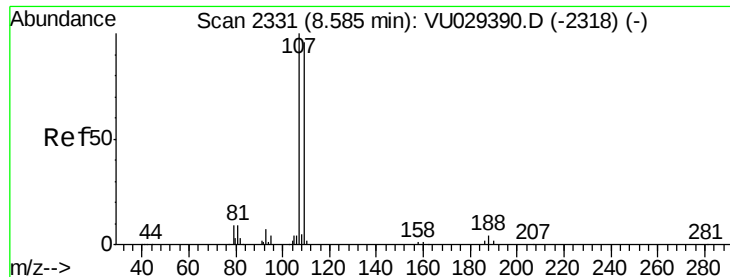
#49
Dibromochloromethane
Concen: 0.435 ug/L
RT: 8.48 min Scan# 2297
Delta R.T. 0.00 min
Lab File: VU029388.D
Acq: 11 Feb 2019 10:22

Tgt Ion:	129	Resp:	7327
Ion	Ratio	Lower	Upper
129	100		
127	77.4	54.8	101.8



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

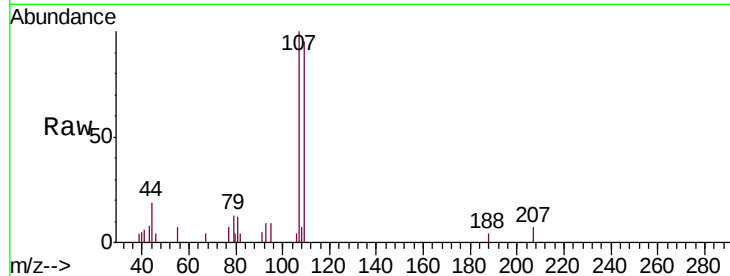




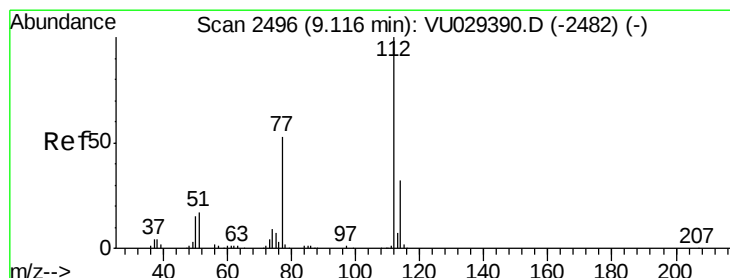
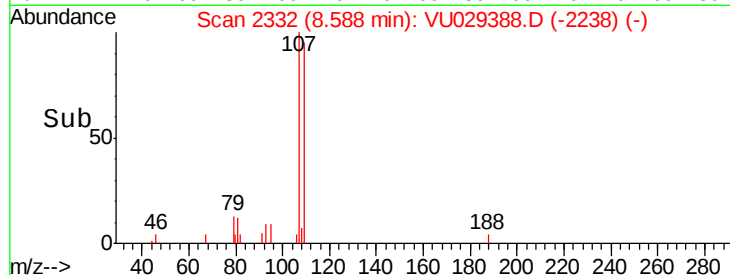
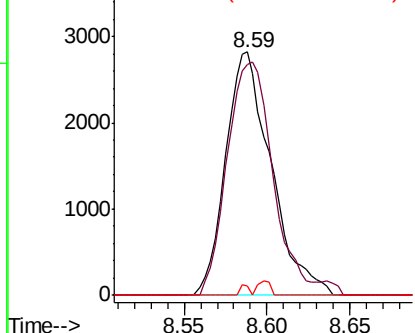
#50
1,2-Dibromoethane
Concen: 0.418 ug/L
RT: 8.59 min Scan# 2332
Delta R.T. 0.00 min
Lab File: VU029388.D
Acq: 11 Feb 2019 10:22

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.544

Tgt Ion:107 Resp: 5380
Ion Ratio Lower Upper
107 100
109 95.0 67.1 124.5
188 4.0 3.4 5.2

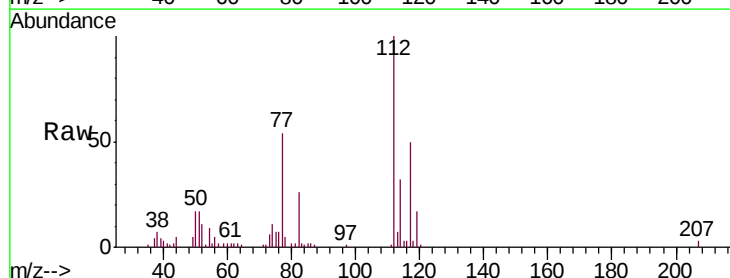


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

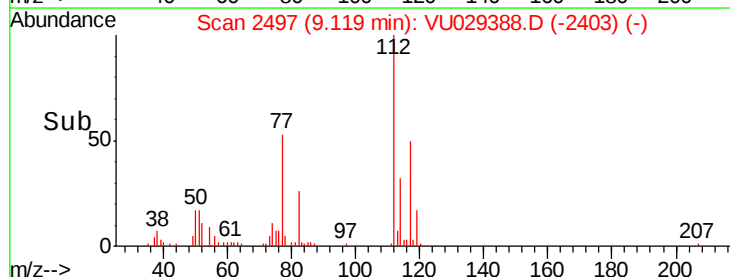
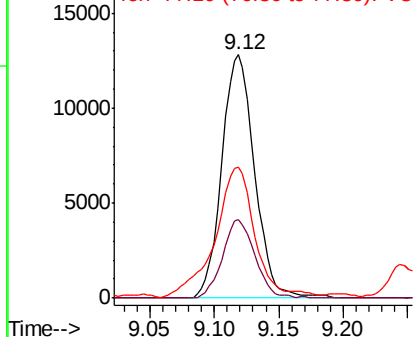


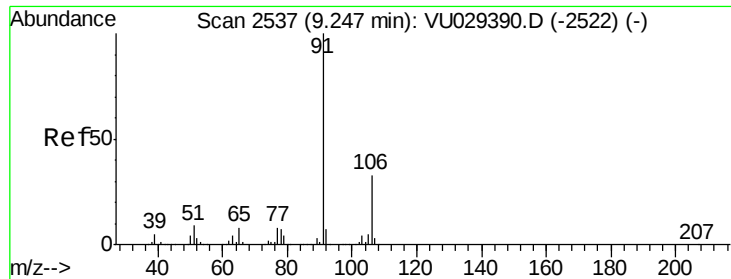
#51
Chlorobenzene
Concen: 0.449 ug/L
RT: 9.12 min Scan# 2497
Delta R.T. 0.00 min
Lab File: VU029388.D
Acq: 11 Feb 2019 10:22

Tgt Ion:112 Resp: 22576
Ion Ratio Lower Upper
112 100
114 32.4 22.3 41.5
77 54.0 42.6 63.8



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 0.440 ug/L

RT: 9.25 min Scan# 2538

Delta R.T. 0.00 min

Lab File: VU029388.D

Acq: 11 Feb 2019 10:22

Instrument :

MSVOA_U

ClientSampleId :

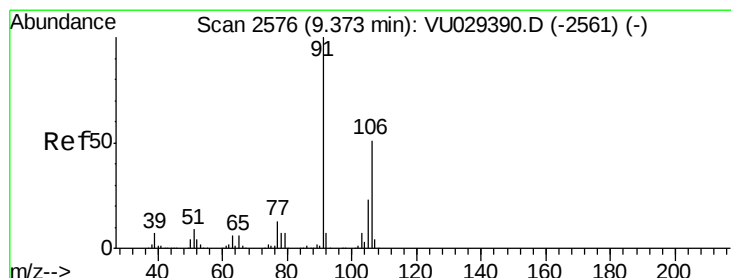
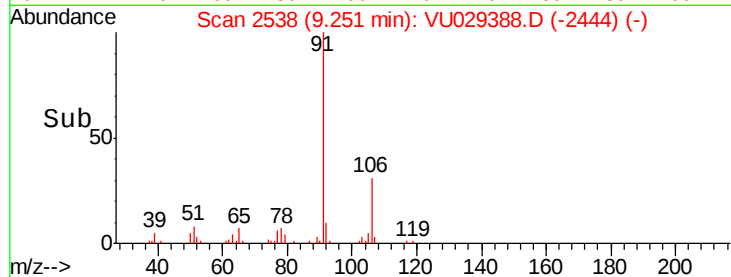
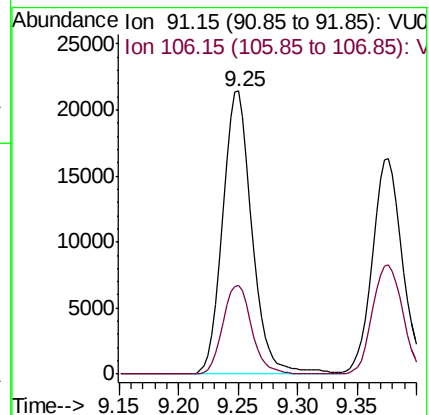
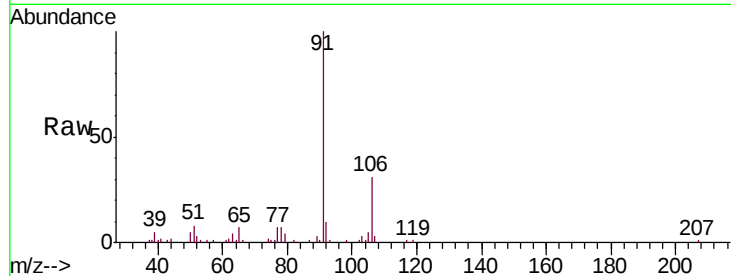
VSTD0.544

Tgt Ion: 91 Resp: 36764

Ion Ratio Lower Upper

91 100

106 31.3 23.0 42.8



#53

m,p-xylene

Concen: 0.462 ug/L

RT: 9.38 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VU029388.D

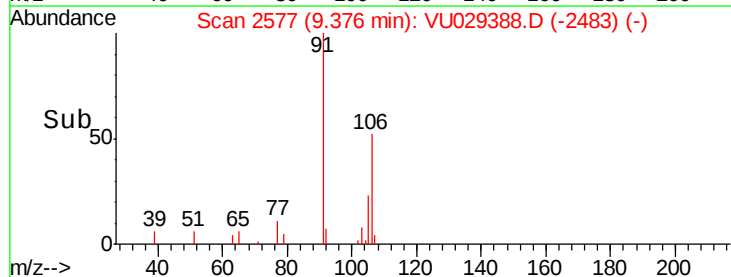
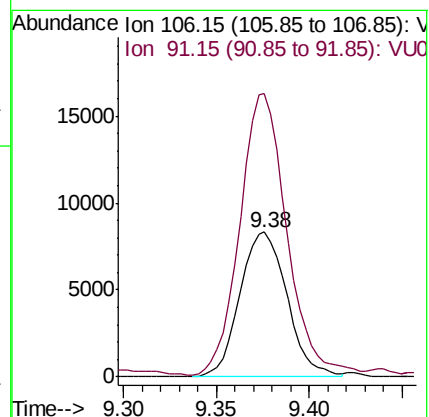
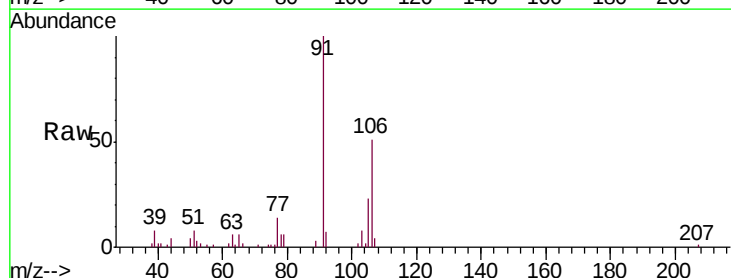
Acq: 11 Feb 2019 10:22

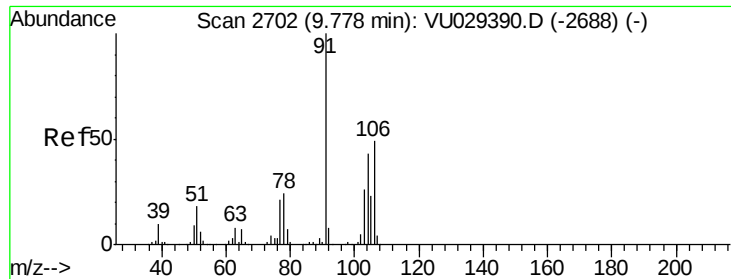
Tgt Ion: 106 Resp: 14749

Ion Ratio Lower Upper

106 100

91 195.9 138.4 257.0

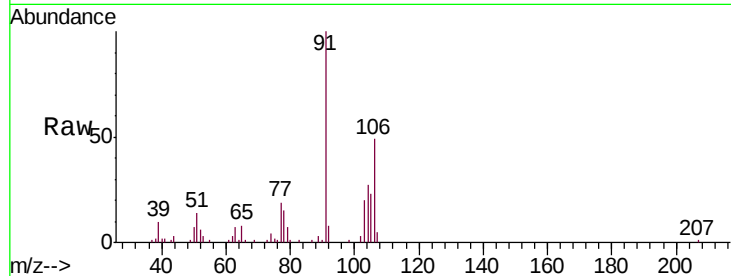




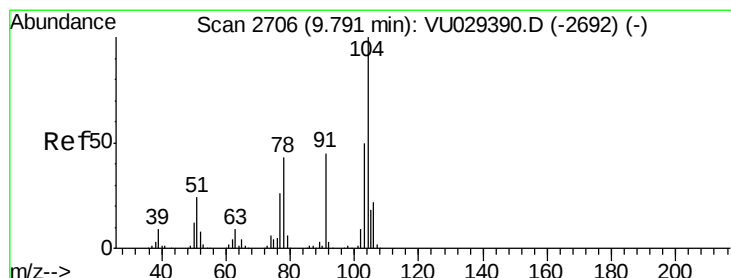
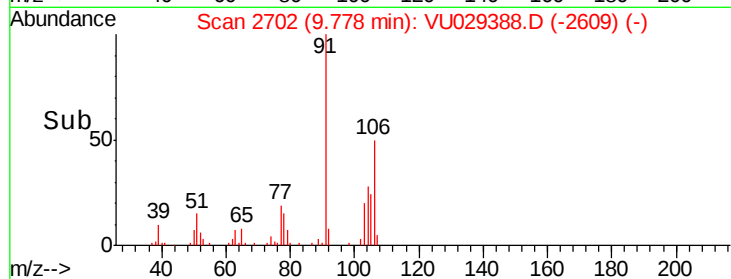
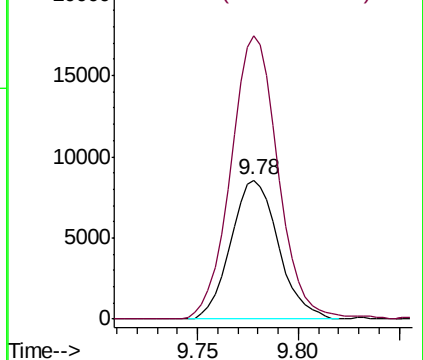
#54
o-xylene
Concen: 0.461 ug/L
RT: 9.78 min Scan# 2702
Delta R.T. -0.00 min
Lab File: VU029388.D
Acq: 11 Feb 2019 10:22

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.544

Tgt Ion:106 Resp: 14135
Ion Ratio Lower Upper
106 100
91 203.7 142.4 264.4

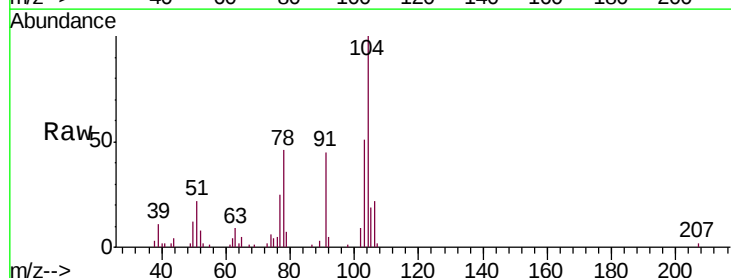


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

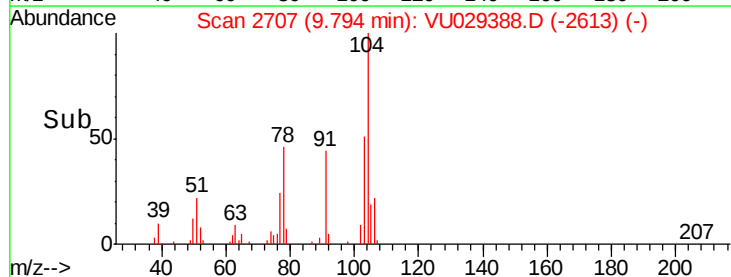
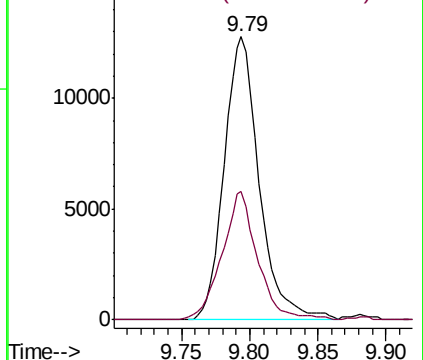


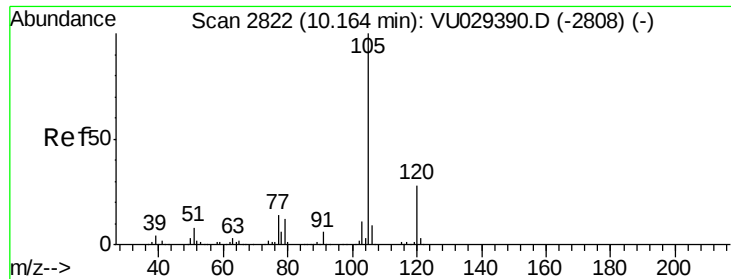
#55
Styrene
Concen: 0.433 ug/L
RT: 9.79 min Scan# 2707
Delta R.T. 0.00 min
Lab File: VU029388.D
Acq: 11 Feb 2019 10:22

Tgt Ion:104 Resp: 22779
Ion Ratio Lower Upper
104 100
78 45.5 30.5 56.7



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

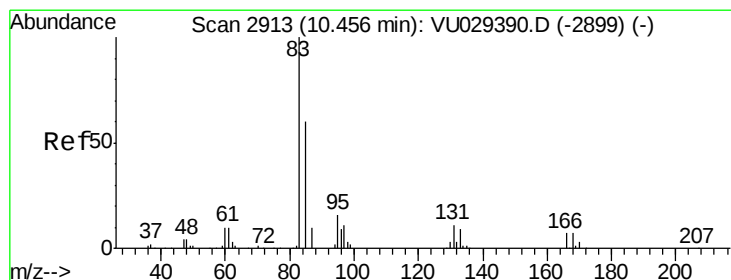
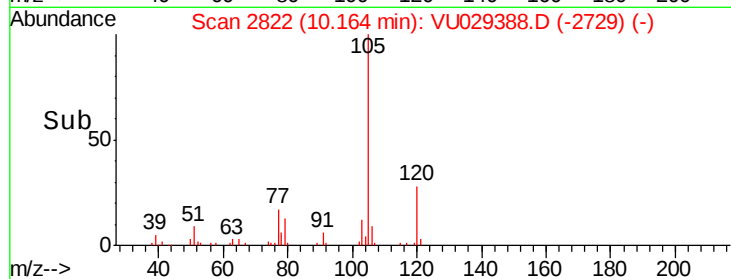
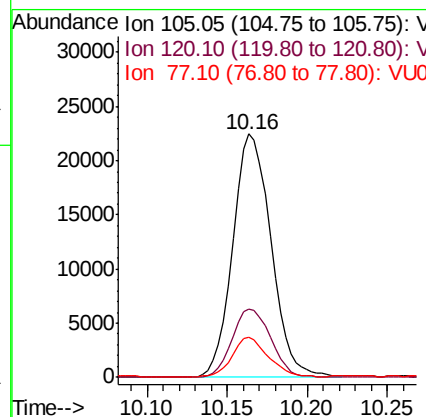
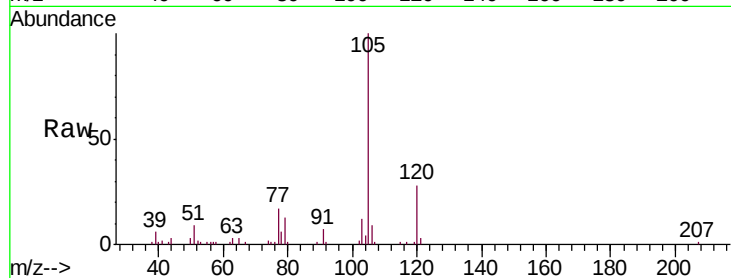




#56
Isopropylbenzene
Concen: 0.446 ug/L
RT: 10.16 min Scan# 2822
Delta R.T. -0.00 min
Lab File: VU029388.D
Acq: 11 Feb 2019 10:22

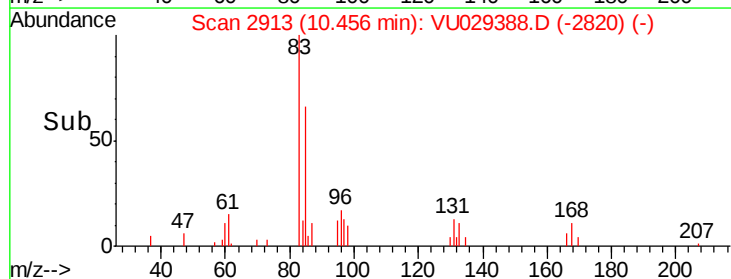
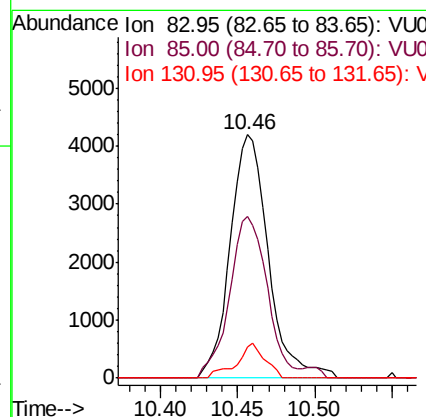
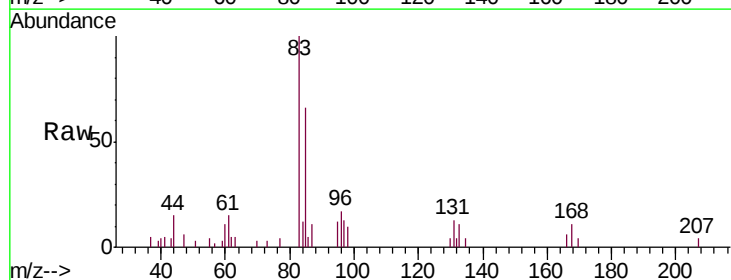
Instrument :
MSVOA_U
ClientSampleId :
VSTD0.544

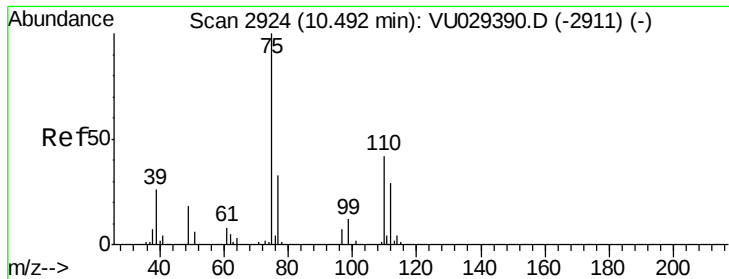
Tgt Ion	Ratio	Lower	Upper
105	100		
120	28.4	22.2	33.4
77	15.8	11.7	17.5



#58
1,1,2,2-Tetrachloroethane
Concen: 0.417 ug/L
RT: 10.46 min Scan# 2913
Delta R.T. -0.00 min
Lab File: VU029388.D
Acq: 11 Feb 2019 10:22

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.3	42.1	78.1
131	13.0	8.6	13.0#





#59

1,2,3-Trichloropropane

Concen: 1.411 ug/L

RT: 11.49 min Scan# 3233

Delta R.T. 0.99 min

Lab File: VU029388.D

Acq: 11 Feb 2019 10:22

Instrument :

MSVOA_U

ClientSampleId :

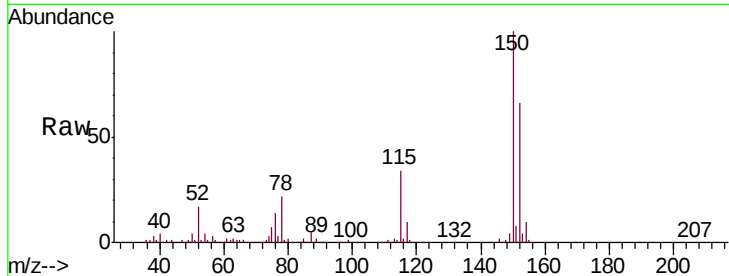
VSTD0.544

Tgt Ion: 75 Resp: 17530

Ion Ratio Lower Upper

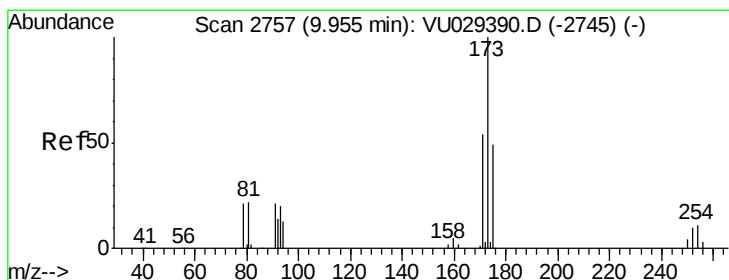
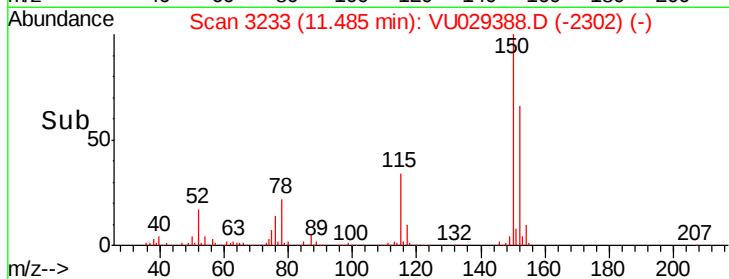
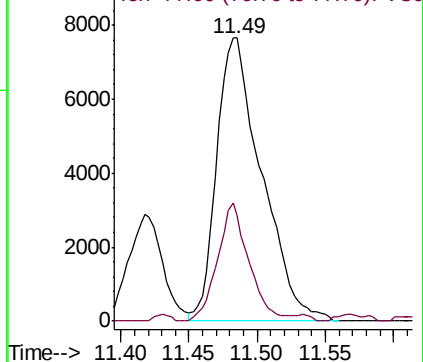
75 100

77 29.0 25.8 38.6



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#61

Bromoform

Concen: 0.460 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. -0.00 min

Lab File: VU029388.D

Acq: 11 Feb 2019 10:22

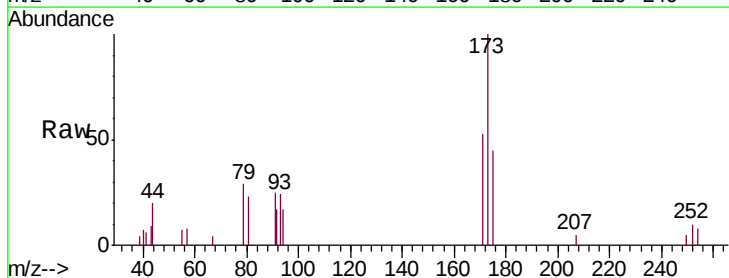
Tgt Ion: 173 Resp: 4768

Ion Ratio Lower Upper

173 100

175 41.3 38.9 58.3

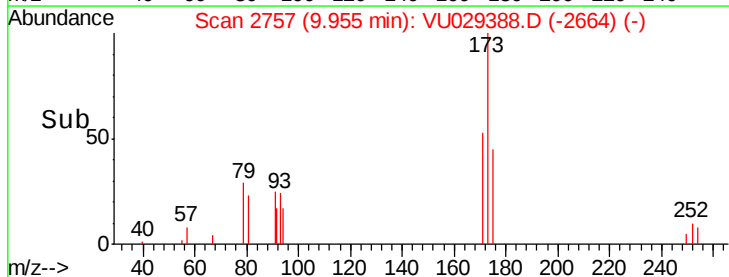
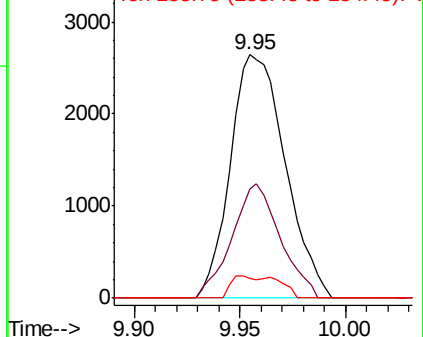
254 4.2 8.4 12.6#

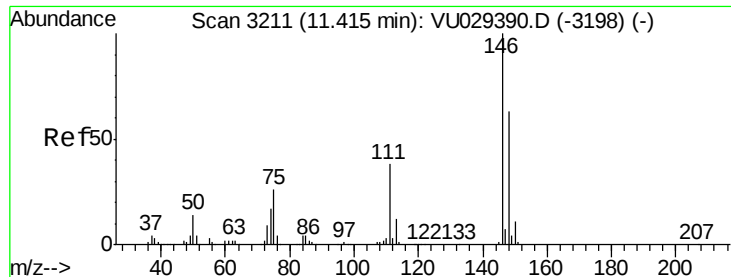


Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 253.75 (253.45 to 254.45): V





#62

1,3-Dichlorobenzene

Concen: 0.450 ug/L

RT: 11.42 min Scan# 3212

Delta R.T. 0.00 min

Lab File: VU029388.D

Acq: 11 Feb 2019 10:22

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.544

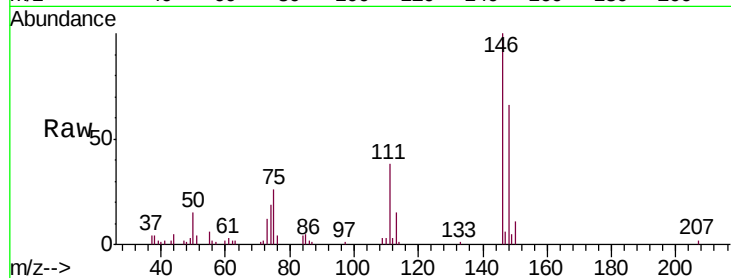
Tgt Ion:146 Resp: 18700

Ion Ratio Lower Upper

146 100

111 38.2 26.5 49.3

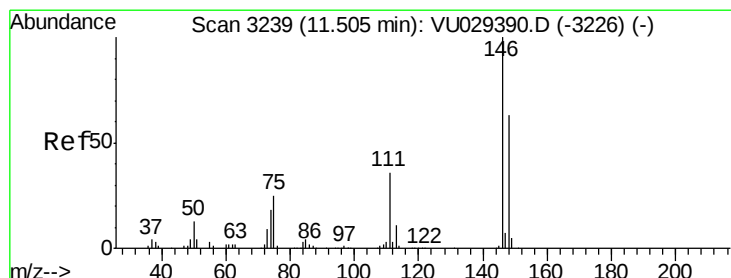
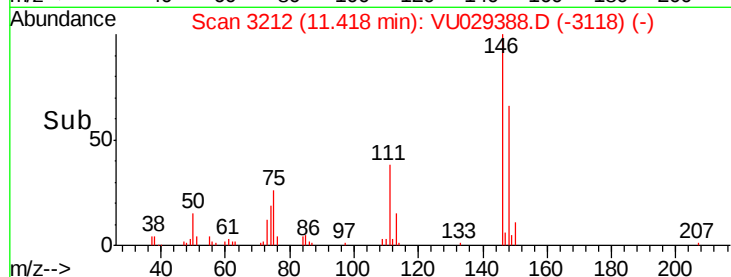
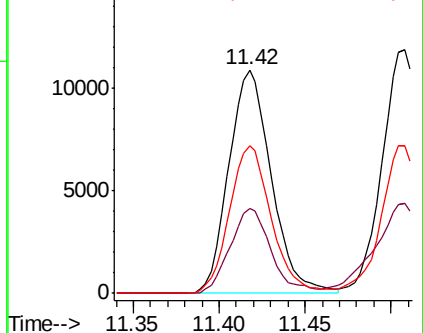
148 66.2 43.9 81.5



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 0.439 ug/L

RT: 11.51 min Scan# 3240

Delta R.T. 0.00 min

Lab File: VU029388.D

Acq: 11 Feb 2019 10:22

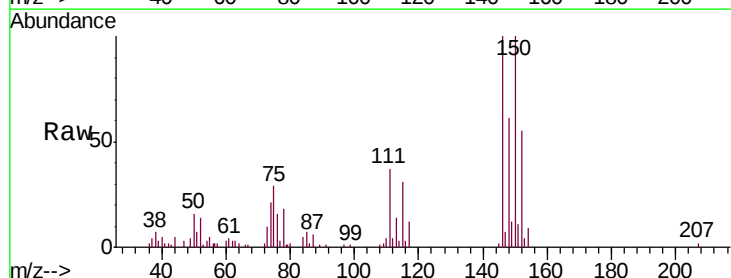
Tgt Ion:146 Resp: 19327

Ion Ratio Lower Upper

146 100

111 36.9 25.1 46.5

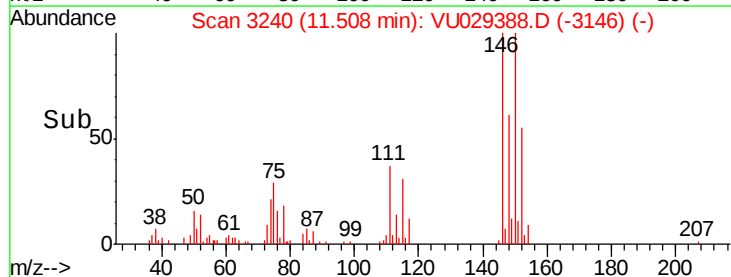
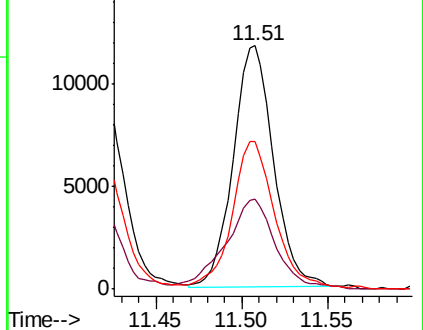
148 60.6 44.0 81.8

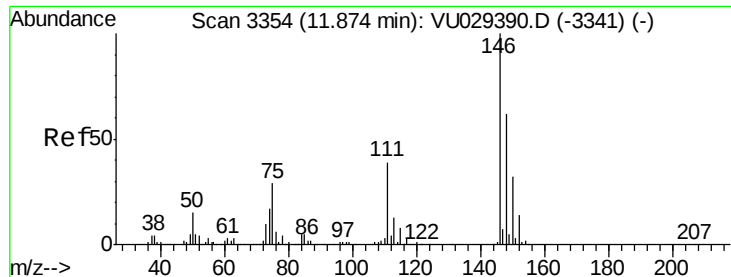


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 0.432 ug/L

RT: 11.88 min Scan# 3355

Delta R.T. 0.00 min

Lab File: VU029388.D

Acq: 11 Feb 2019 10:22

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.544

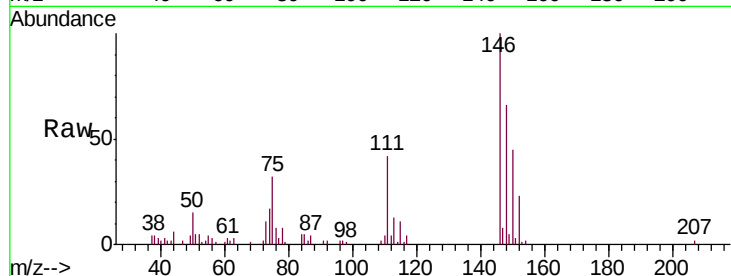
Tgt Ion:146 Resp: 17491

Ion Ratio Lower Upper

146 100

111 42.2 31.0 46.6

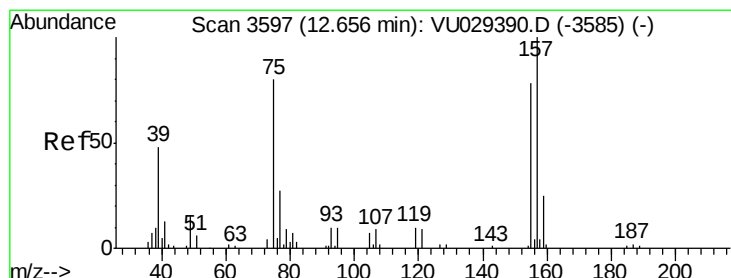
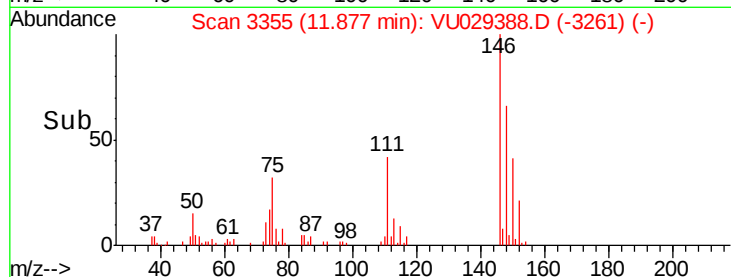
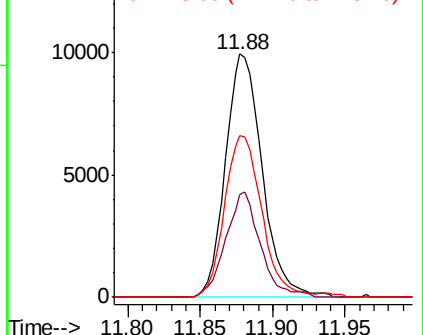
148 66.2 49.4 74.2



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 0.427 ug/L

RT: 12.66 min Scan# 3599

Delta R.T. 0.01 min

Lab File: VU029388.D

Acq: 11 Feb 2019 10:22

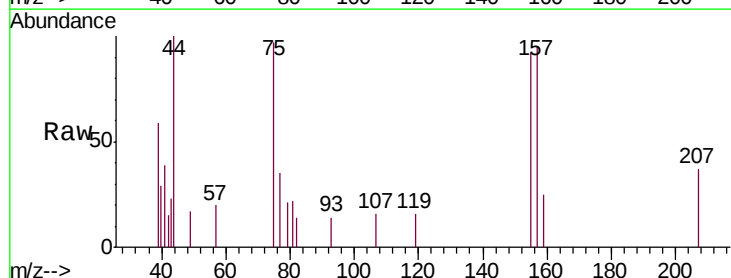
Tgt Ion: 75 Resp: 1210

Ion Ratio Lower Upper

75 100

155 95.2 78.4 117.6

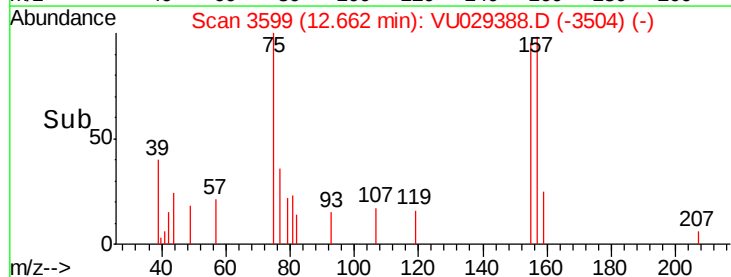
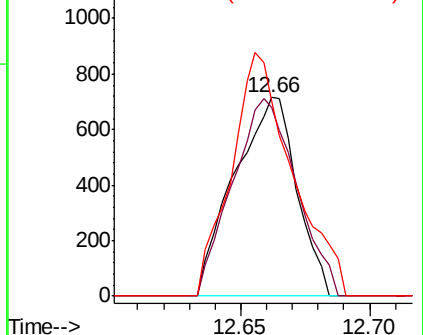
157 98.0 100.2 150.4#

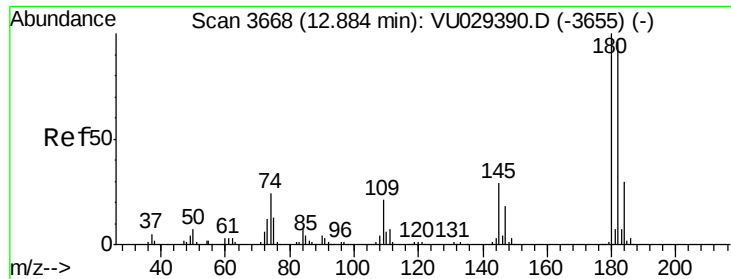


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

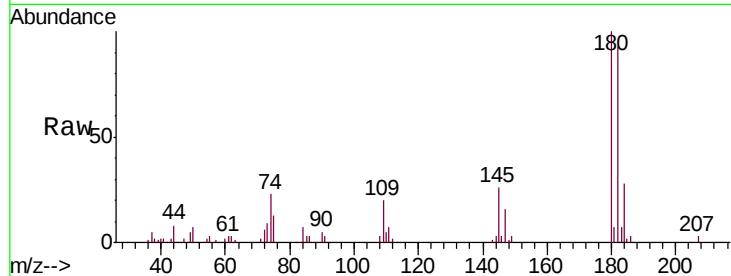




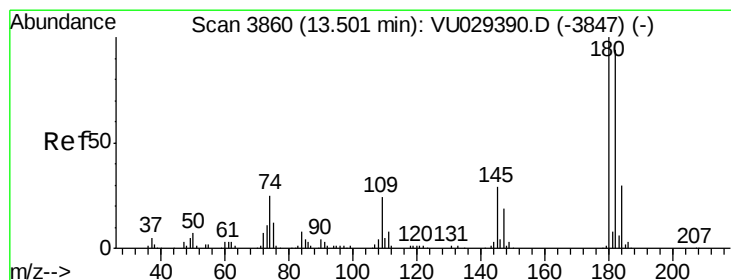
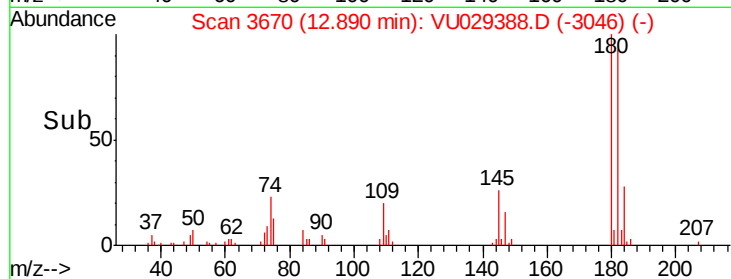
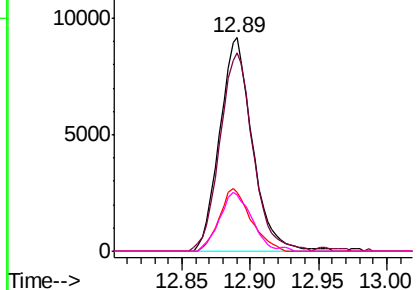
#67
 1,3,5-Trichlorobenzene
 Concen: 0.438 ug/L
 RT: 12.89 min Scan# 3670
 Delta R.T. 0.01 min
 Lab File: VU029388.D
 Acq: 11 Feb 2019 10:22

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.544

Tgt Ion:	180	Resp:	15286
Ion	Ratio	Lower	Upper
180	100		
182	93.9	77.8	116.6
184	28.1	24.6	37.0
145	26.8	23.0	34.4

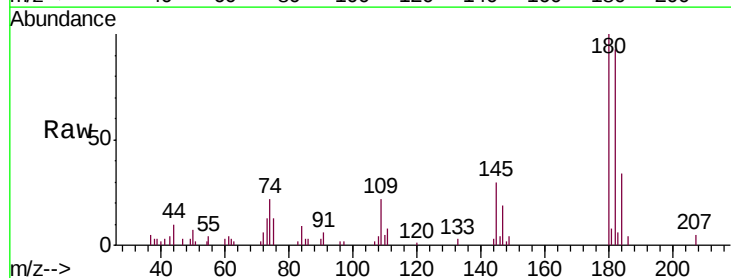


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

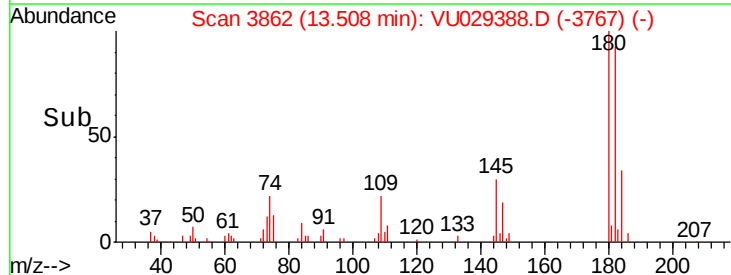
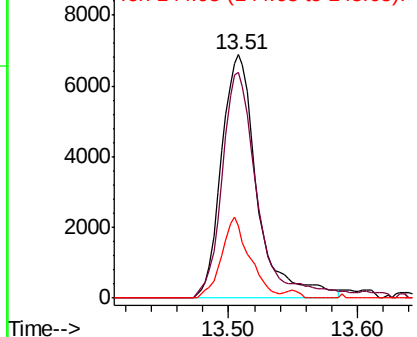


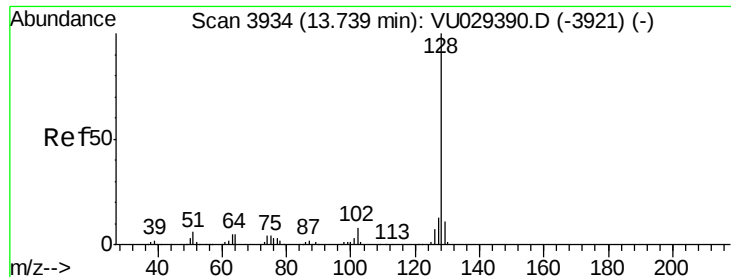
#68
 1,2,4-trichlorobenzene
 Concen: 0.448 ug/L
 RT: 13.51 min Scan# 3862
 Delta R.T. 0.01 min
 Lab File: VU029388.D
 Acq: 11 Feb 2019 10:22

Tgt Ion:	180	Resp:	13248
Ion	Ratio	Lower	Upper
180	100		
182	91.9	76.4	114.6
145	26.2	23.4	35.2



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 0.410 ug/L

RT: 13.75 min Scan# 3936

Delta R.T. 0.01 min

Lab File: VU029388.D

Acq: 11 Feb 2019 10:22

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.544

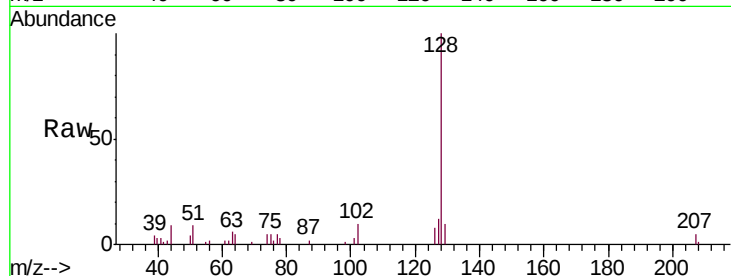
Tgt Ion:128 Resp: 19245

Ion Ratio Lower Upper

128 100

129 9.3 8.2 12.4

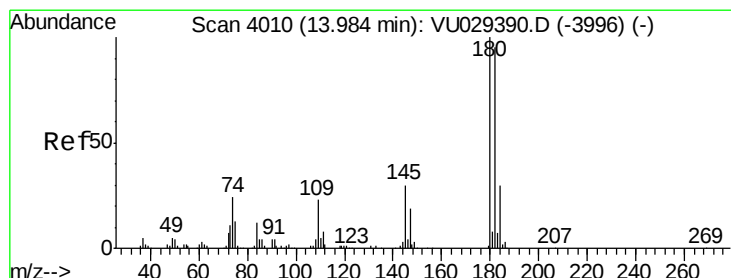
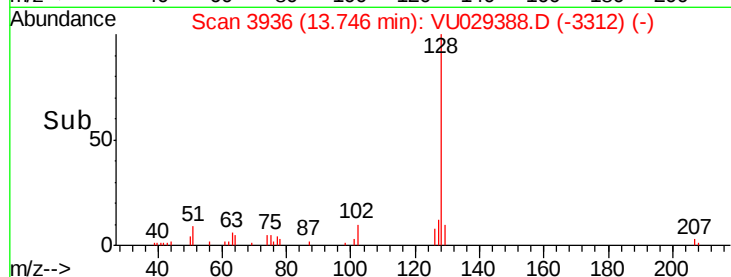
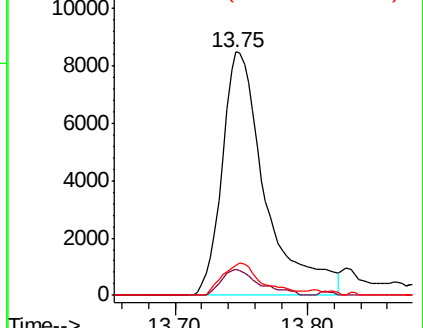
127 12.2 10.2 15.4



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 0.441 ug/L

RT: 13.99 min Scan# 4012

Delta R.T. 0.01 min

Lab File: VU029388.D

Acq: 11 Feb 2019 10:22

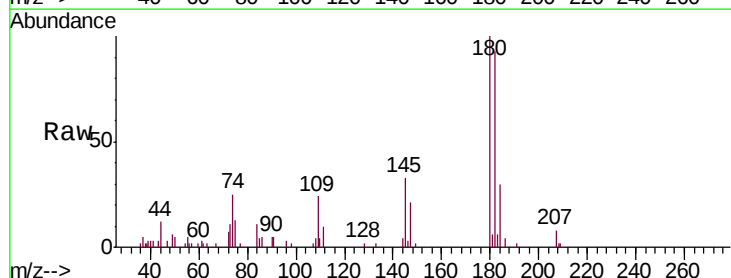
Tgt Ion:180 Resp: 12021

Ion Ratio Lower Upper

180 100

182 95.3 75.2 112.8

145 30.1 23.7 35.5



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

