

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU031119\
 Data File : VU029911.D
 Acq On : 09 Mar 2019 11:18
 Operator : JC/SP
 Sample : VSTD00542
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00542

Quant Time: Mar 11 01:57:44 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	509758	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	488096	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	238524	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	14173	3.91	ug/L	0.00
7) Chloroethane-d5	1.68	69	12630	3.95	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	26674	3.84	ug/L	0.00
21) 2-Butanone-d5	4.19	46	20439	8.87	ug/L	0.02
24) Chloroform-d	4.65	84	28051	4.63	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	16811	4.43	ug/L	0.00
32) Benzene-d6	5.34	84	57098	4.65	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.33	67	16982	4.60	ug/L	0.00
41) Toluene-d8	7.56	98	53414	4.29	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	8257	4.29	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	15441	7.54	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	25786	4.18	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	23447	4.65	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	18697	5.159 ug/L	95
3) Chloromethane	1.33	50	26735	7.621 ug/L	97
5) Vinyl chloride	1.41	62	17615	4.231 ug/L	94
6) Bromomethane	1.63	94	4925	2.777 ug/L	98
8) Chloroethane	1.70	64	12048	4.399 ug/L	97
9) Trichlorofluoromethane	1.89	101	24443	3.801 ug/L	95
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	15001	4.311 ug/L	99
12) 1,1-Dichloroethene	2.28	96	14079	4.241 ug/L	94
13) Acetone	2.32	43	26940	10.757 ug/L	100
14) Carbon disulfide	2.48	76	44874	4.914 ug/L	99
15) Methyl Acetate	2.62	43	15676	4.756 ug/L	97
16) Methylene chloride	2.70	84	17300	5.118 ug/L	97
17) trans-1,2-Dichloroethene	2.98	96	14881	4.660 ug/L	97
18) Methyl tert-butyl Ether	3.00	73	33627	3.562 ug/L	98
19) 1,1-Dichloroethane	3.44	63	26371	4.764 ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	17274	4.664 ug/L	99
22) 2-Butanone	4.27	43	25474	8.882 ug/L	98
23) Bromochloromethane	4.55	128	8971	4.524 ug/L	89
25) Chloroform	4.67	83	29653	4.853 ug/L	98
27) 1,2-Dichloroethane	5.40	62	19876	4.299 ug/L	100
29) Cyclohexane	4.99	56	22197	4.501 ug/L	# 89
30) 1,1,1-Trichloroethane	4.91	97	21979	4.229 ug/L	95
31) Carbon tetrachloride	5.13	117	20767	4.446 ug/L	94
33) Benzene	5.39	78	59360	4.655 ug/L	100
34) Trichloroethene	6.19	95	16706	4.904 ug/L	99
35) Methylcyclohexane	6.41	83	25337	4.464 ug/L	99
37) 1,2-Dichloropropane	6.43	63	16244	4.880 ug/L	99
38) Bromodichloromethane	6.75	83	18996	4.273 ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	22665	4.283 ug/L	97
40) 4-Methyl-2-pentanone	7.46	43	39372	8.484 ug/L	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU031119\
 Data File : VU029911.D
 Acq On : 09 Mar 2019 11:18
 Operator : JC/SP
 Sample : VSTD00542
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 30 Sample Multiplier: 1

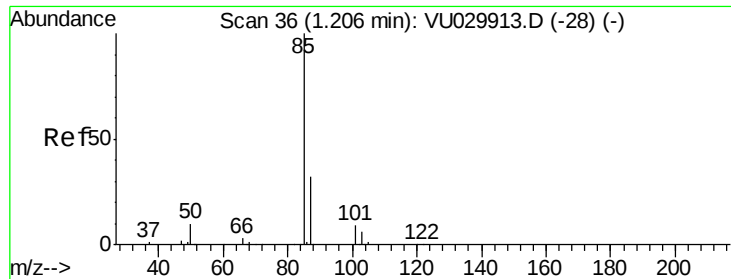
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00542

Quant Time: Mar 11 01:57:44 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)

42) Toluene	7.64	91	62402	4.192	ug/L	98
44) trans-1,3-Dichloropropene	7.88	75	18834	3.790	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	16833	4.792	ug/L	93
46) Tetrachloroethene	8.22	164	14250	4.349	ug/L	96
48) 2-Hexanone	8.36	43	32947	8.141	ug/L	99
49) Dibromochloromethane	8.47	129	17032	4.080	ug/L	95
50) 1,2-Dibromoethane	8.59	107	16798	4.331	ug/L	100
51) Chlorobenzene	9.12	112	44926	4.438	ug/L	97
52) Ethylbenzene	9.25	91	68659	4.096	ug/L	96
53) m,p-Xylene	9.38	106	25523	3.814	ug/L	94
54) o-xylene	9.78	106	25798	3.848	ug/L	96
55) Styrene	9.79	104	39098	3.477	ug/L	94
56) Isopropylbenzene	10.16	105	65345	3.727	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	26368	4.250	ug/L	97
59) 1,2,3-Trichloropropane	10.49	75	19967	4.257	ug/L	94
61) Bromoform	9.96	173	12301	3.877	ug/L	98
62) 1,3-Dichlorobenzene	11.42	146	34883	4.589	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	36051	4.706	ug/L	98
65) 1,2-Dichlorobenzene	11.88	146	35153	4.441	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	5195	4.257	ug/L	91
67) 1,3,5-Trichlorobenzene	12.89	180	25907	4.468	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	21451	4.258	ug/L	95
69) Naphthalene	13.74	128	70830	4.605	ug/L	98
70) 1,2,3-Trichlorobenzene	13.99	180	25052	4.685	ug/L	96

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



#2

Dichlorodifluoromethane

Concen: 5.159 ug/L

RT: 1.21 min Scan# 36

Delta R.T. -0.00 min

Lab File: VU029911.D

Acq: 09 Mar 2019 11:18

Instrument :

MSVOA_U

ClientSampleId :

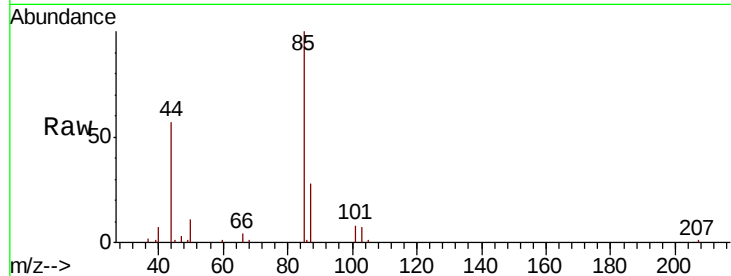
VSTD00542

Tgt Ion: 85 Resp: 18697

Ion Ratio Lower Upper

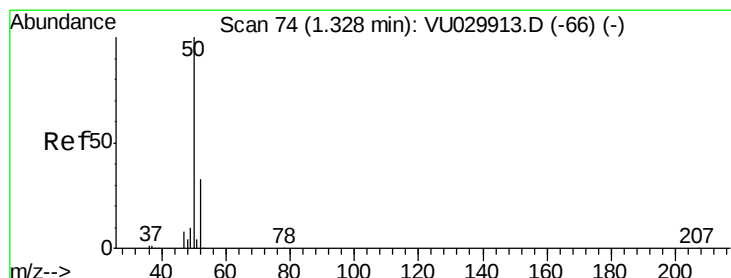
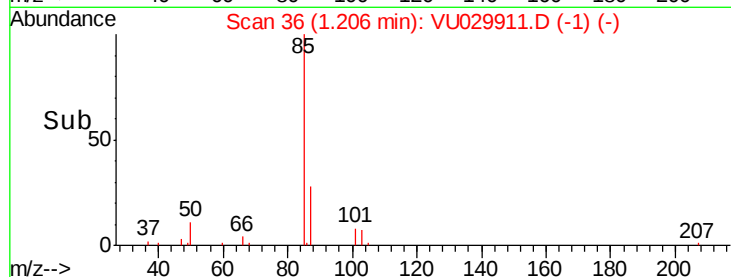
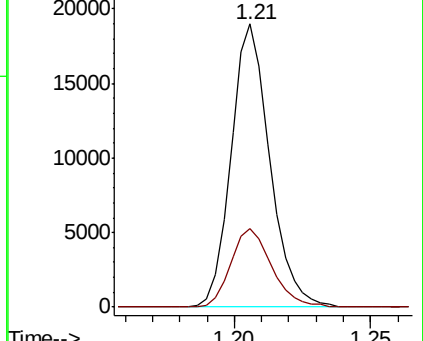
85 100

87 29.3 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 7.621 ug/L

RT: 1.33 min Scan# 74

Delta R.T. -0.00 min

Lab File: VU029911.D

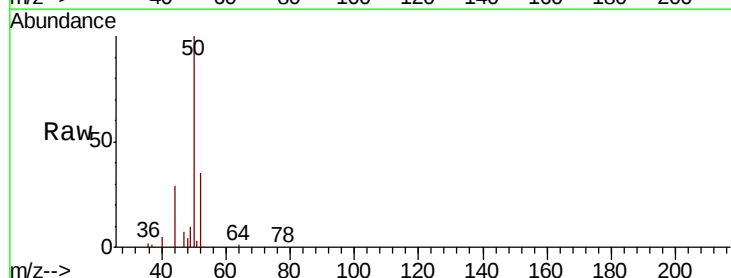
Acq: 09 Mar 2019 11:18

Tgt Ion: 50 Resp: 26735

Ion Ratio Lower Upper

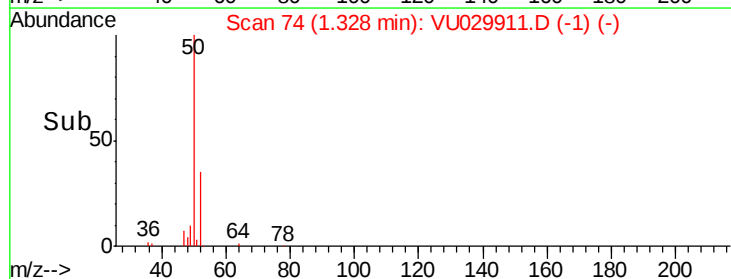
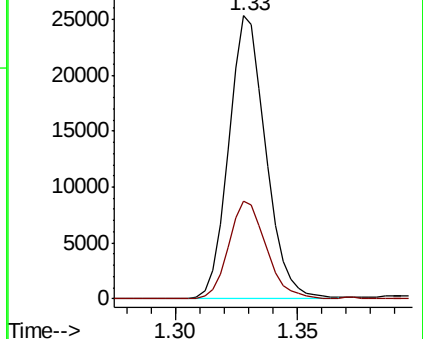
50 100

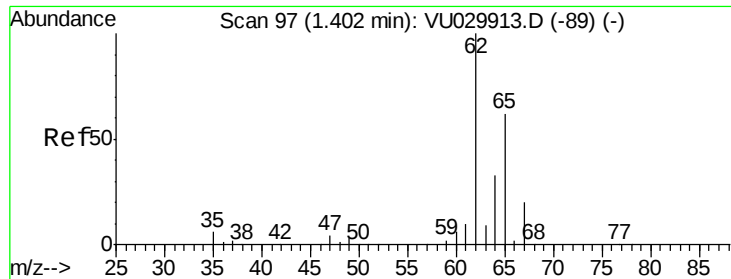
52 34.7 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 4.231 ug/L

RT: 1.41 min Scan# 98

Delta R.T. 0.00 min

Lab File: VU029911.D

Acq: 09 Mar 2019 11:18

Instrument :

MSVOA_U

ClientSampleId :

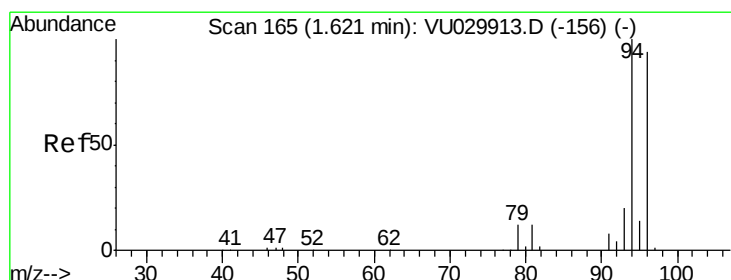
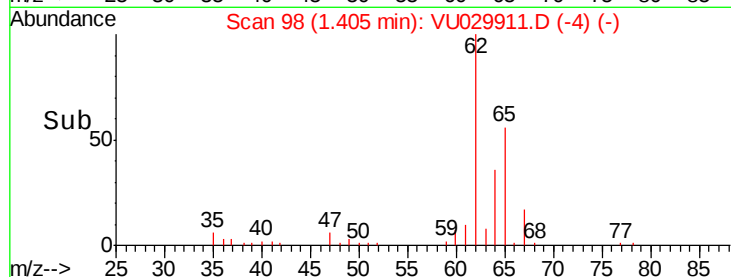
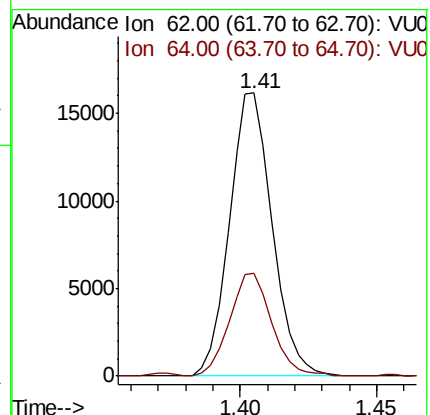
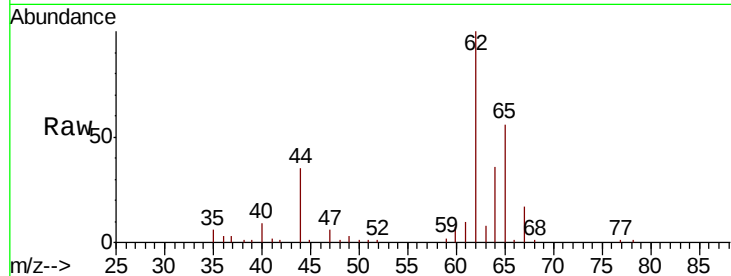
VSTD00542

Tgt Ion: 62 Resp: 17615

Ion Ratio Lower Upper

62 100

64 36.5 23.1 42.9



#6

Bromomethane

Concen: 2.777 ug/L

RT: 1.63 min Scan# 168

Delta R.T. 0.01 min

Lab File: VU029911.D

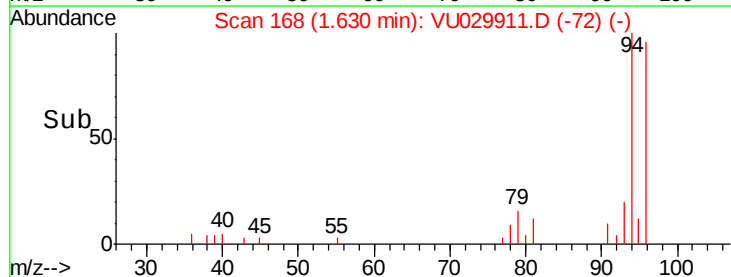
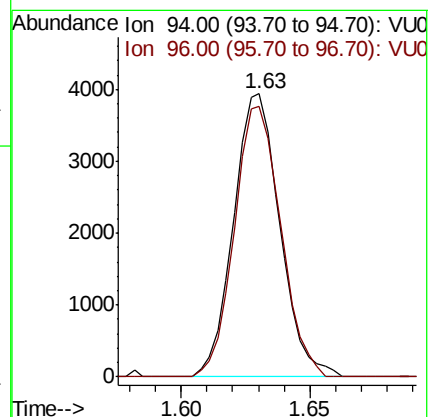
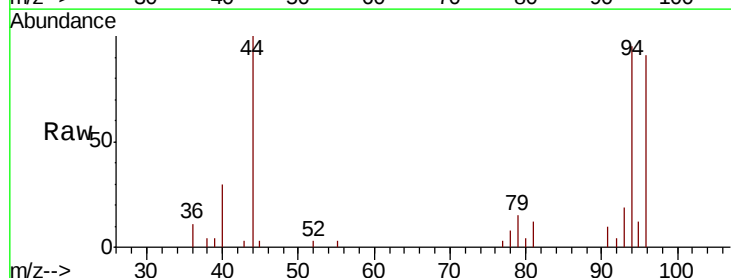
Acq: 09 Mar 2019 11:18

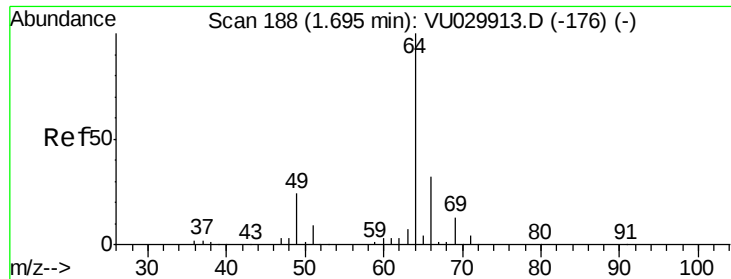
Tgt Ion: 94 Resp: 4925

Ion Ratio Lower Upper

94 100

96 95.7 65.7 121.9

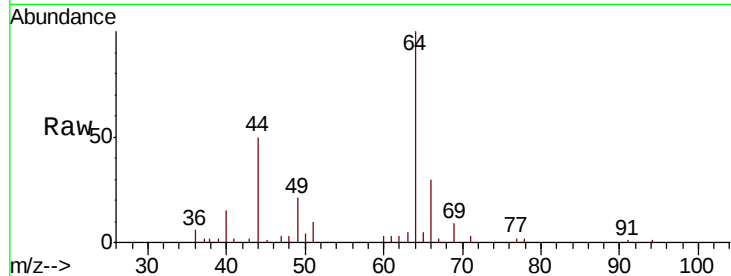




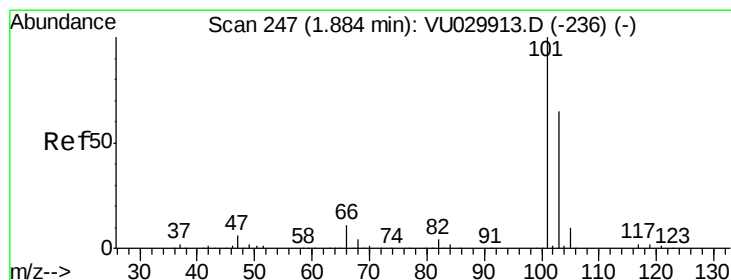
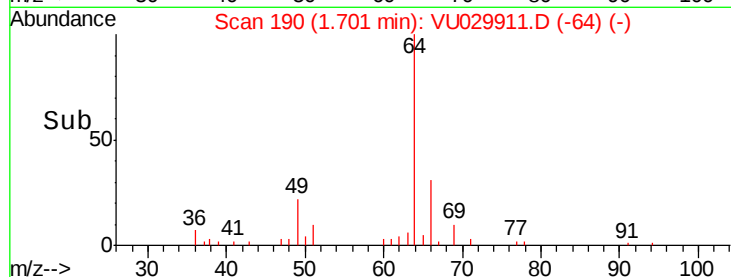
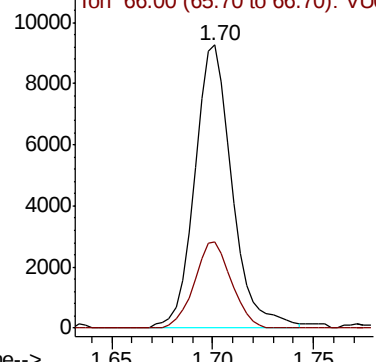
#8
Chloroethane
Concen: 4.399 ug/L
RT: 1.70 min Scan# 190
Delta R.T. 0.01 min
Lab File: VU029911.D
Acq: 09 Mar 2019 11:18

Instrument :
MSVOA_U
ClientSampleId :
VSTD00542

Tgt Ion: 64 Resp: 12048
Ion Ratio Lower Upper
64 100
66 30.3 22.5 41.7

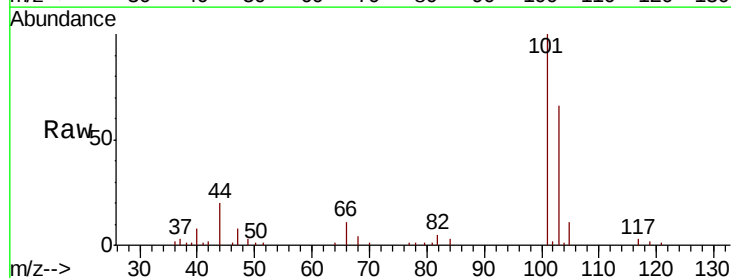


Abundance Ion 64.00 (63.70 to 64.70): VU029911.D (-64) (-)
Ion 66.00 (65.70 to 66.70): VU029911.D (-66) (-)

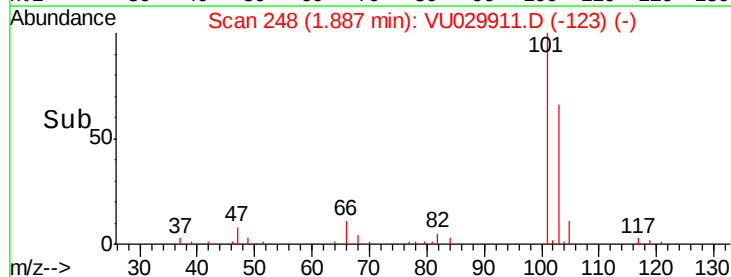
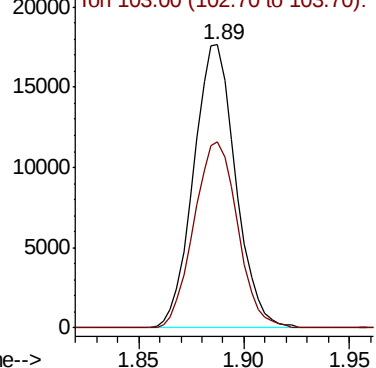


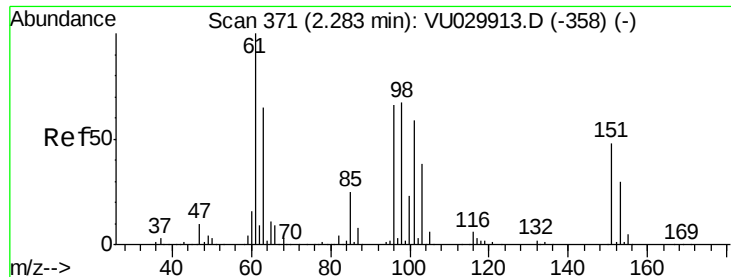
#9
Trichlorofluoromethane
Concen: 3.801 ug/L
RT: 1.89 min Scan# 248
Delta R.T. 0.00 min
Lab File: VU029911.D
Acq: 09 Mar 2019 11:18

Tgt Ion: 101 Resp: 24443
Ion Ratio Lower Upper
101 100
103 68.2 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): VU029911.D (-101) (-)
Ion 103.00 (102.70 to 103.70): VU029911.D (-103) (-)





#10

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

Concen: 4.311 ug/L

RT: 2.29 min Scan# 372

Delta R.T. 0.00 min

Lab File: VU029911.D

Acq: 09 Mar 2019 11:18

Instrument :

MSVOA_U

ClientSampleId :

VSTD00542

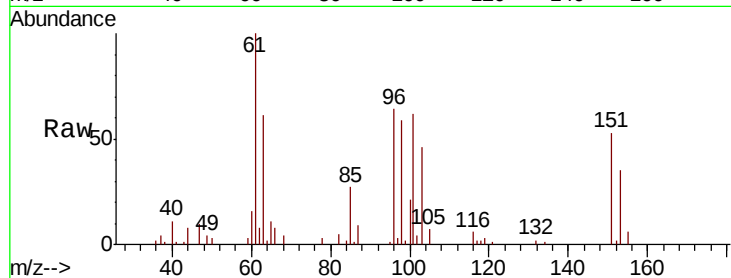
Tgt Ion: 101 Resp: 15001

Ion Ratio Lower Upper

101 100

85 41.9 33.4 50.2

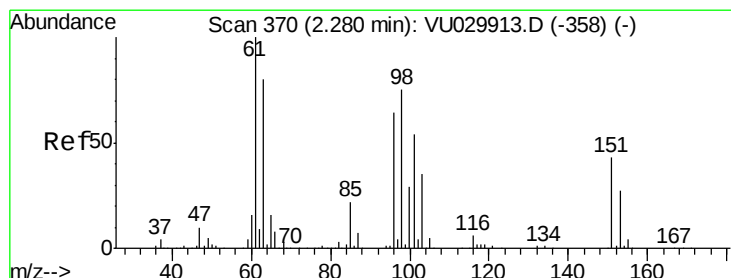
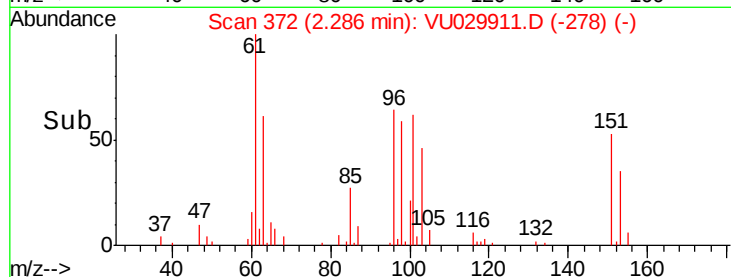
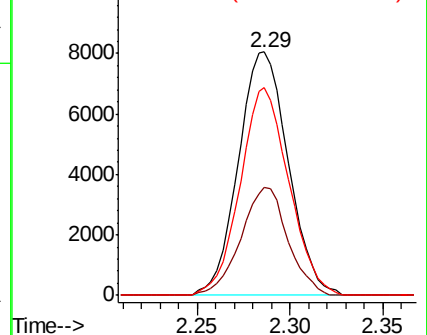
151 83.2 65.8 98.6



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: 4.241 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU029911.D

Acq: 09 Mar 2019 11:18

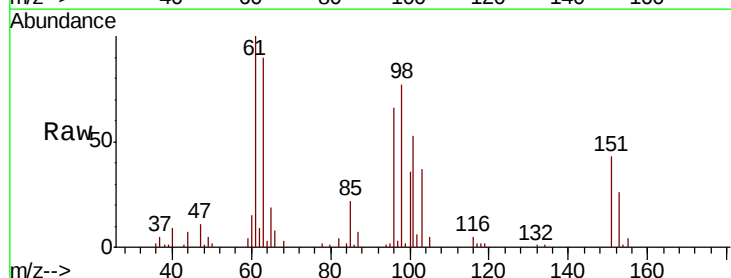
Tgt Ion: 96 Resp: 14079

Ion Ratio Lower Upper

96 100

61 151.6 109.0 202.4

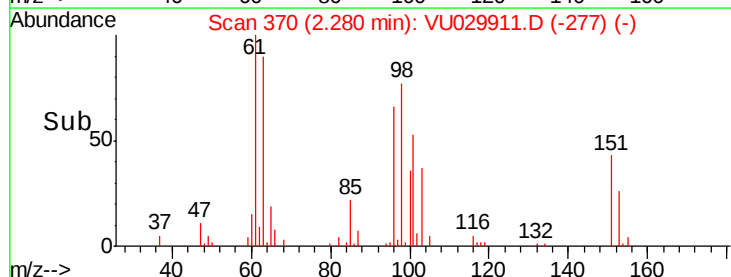
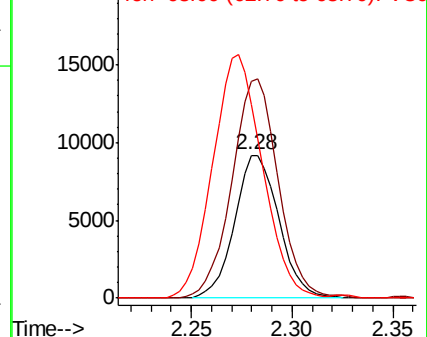
63 135.9 88.1 163.5

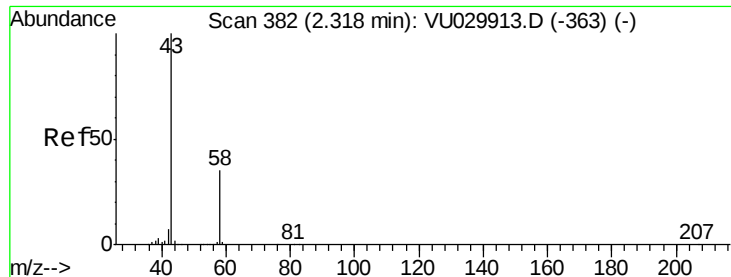


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 10.757 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VU029911.D

Acq: 09 Mar 2019 11:18

Instrument :

MSVOA_U

ClientSampleId :

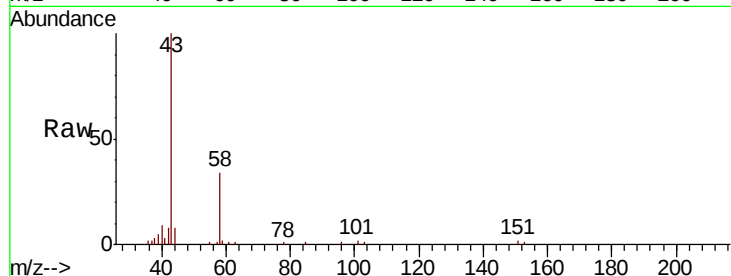
VSTD00542

Tgt Ion: 43 Resp: 26940

Ion Ratio Lower Upper

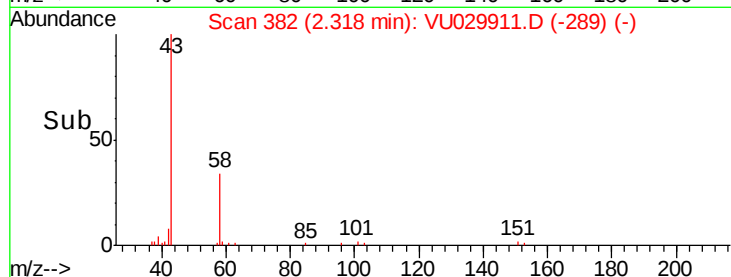
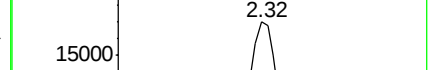
43 100

58 35.2 0.0 70.2

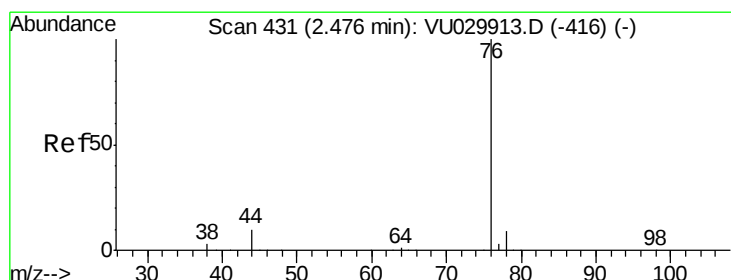


Abundance Ion 43.00 (42.70 to 43.70): VU029911.D (-363) (-)

Ion 58.00 (57.70 to 58.70): VU029911.D (-363) (-)



Time-->



#14

Carbon disulfide

Concen: 4.914 ug/L

RT: 2.48 min Scan# 431

Delta R.T. -0.00 min

Lab File: VU029911.D

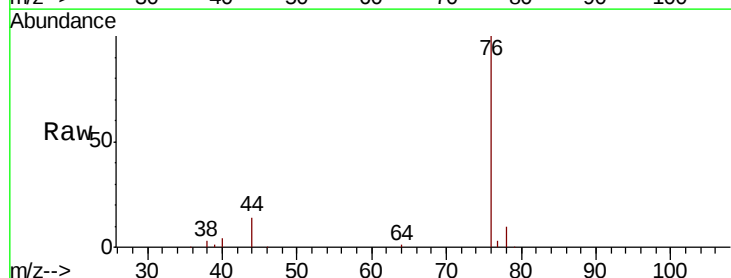
Acq: 09 Mar 2019 11:18

Tgt Ion: 76 Resp: 44874

Ion Ratio Lower Upper

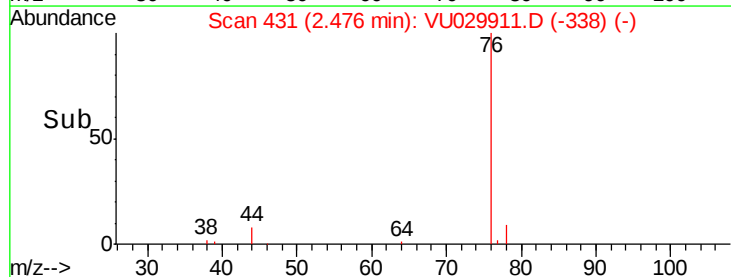
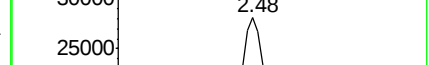
76 100

78 9.8 7.5 11.3

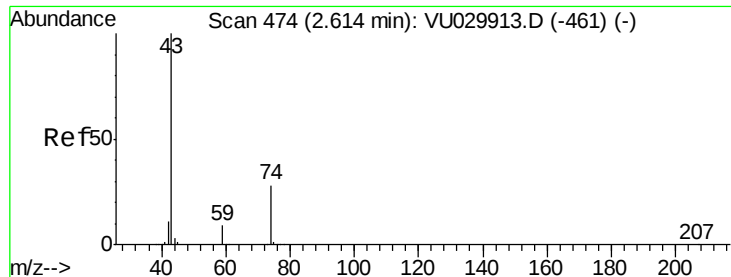


Abundance Ion 76.00 (75.70 to 76.70): VU029911.D (-416) (-)

Ion 78.00 (77.70 to 78.70): VU029911.D (-416) (-)



Time-->



#15

Methyl Acetate

Concen: 4.756 ug/L

RT: 2.62 min Scan# 475

Delta R.T. 0.00 min

Lab File: VU029911.D

Acq: 09 Mar 2019 11:18

Instrument :

MSVOA_U

ClientSampleId :

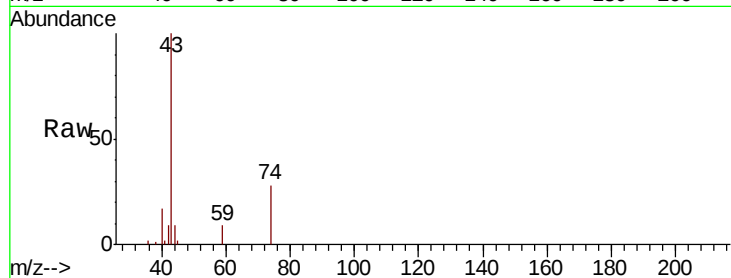
VSTD00542

Tgt Ion: 43 Resp: 15676

Ion Ratio Lower Upper

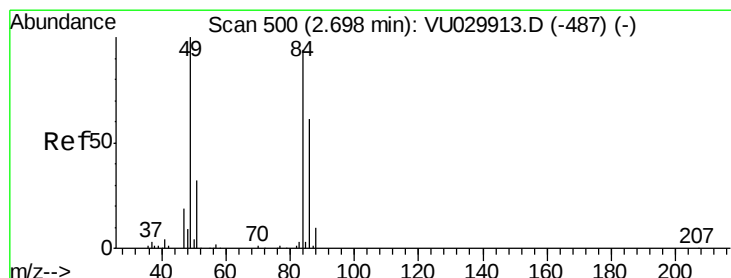
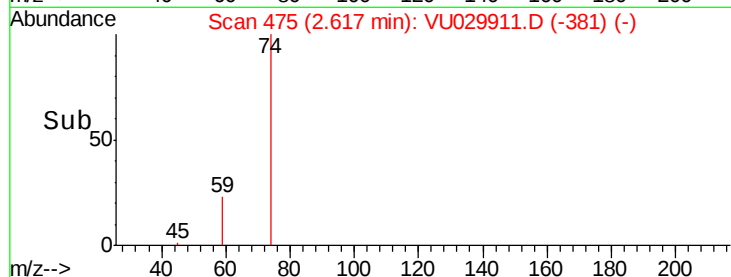
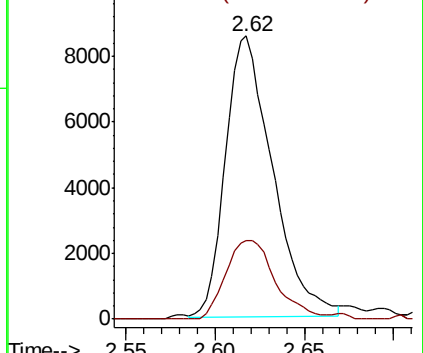
43 100

74 29.4 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0



#16

Methylene chloride

Concen: 5.118 ug/L

RT: 2.70 min Scan# 500

Delta R.T. -0.00 min

Lab File: VU029911.D

Acq: 09 Mar 2019 11:18

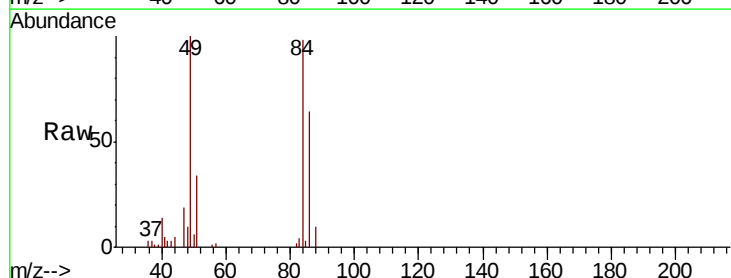
Tgt Ion: 84 Resp: 17300

Ion Ratio Lower Upper

84 100

86 64.9 45.3 84.1

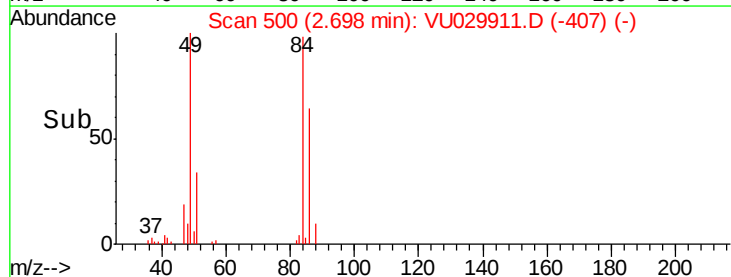
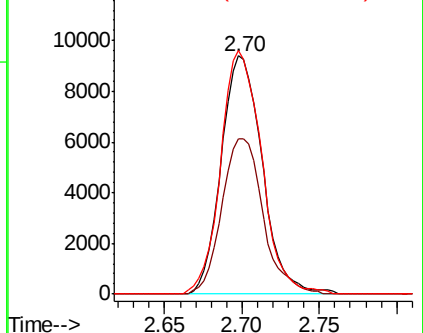
49 102.2 74.8 139.0

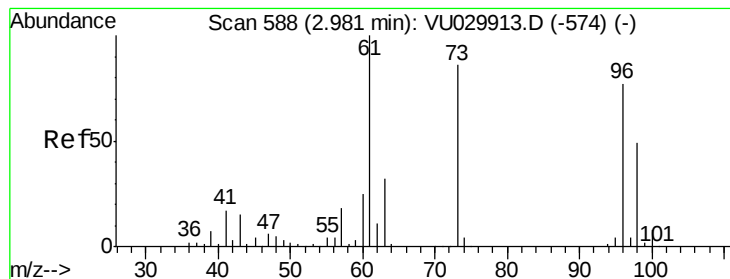


Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0





#17

trans-1,2-Dichloroethene

Concen: 4.660 ug/L

RT: 2.98 min Scan# 588

Delta R.T. -0.00 min

Lab File: VU029911.D

Acq: 09 Mar 2019 11:18

Instrument :

MSVOA_U

ClientSampleId :

VSTD00542

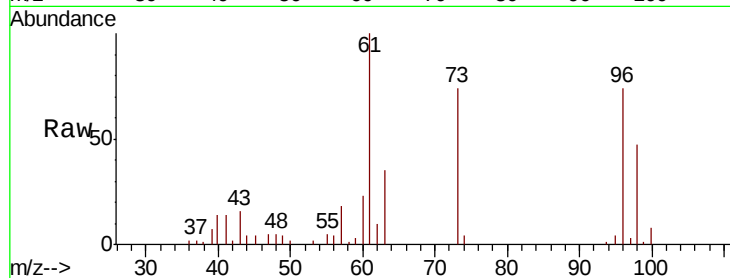
Tgt Ion: 96 Resp: 14881

Ion Ratio Lower Upper

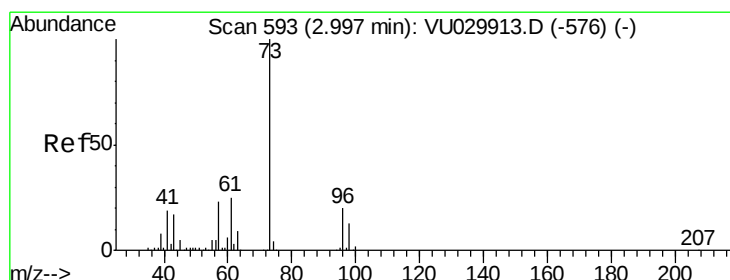
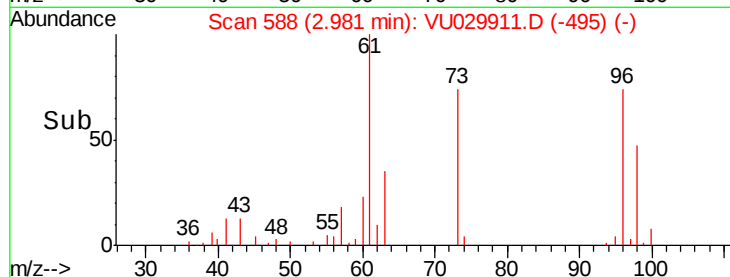
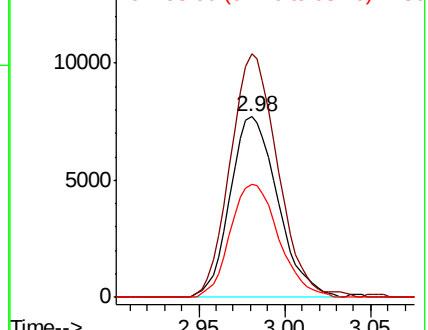
96 100

61 134.9 91.1 169.3

98 62.8 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: 3.562 ug/L

RT: 3.00 min Scan# 593

Delta R.T. -0.00 min

Lab File: VU029911.D

Acq: 09 Mar 2019 11:18

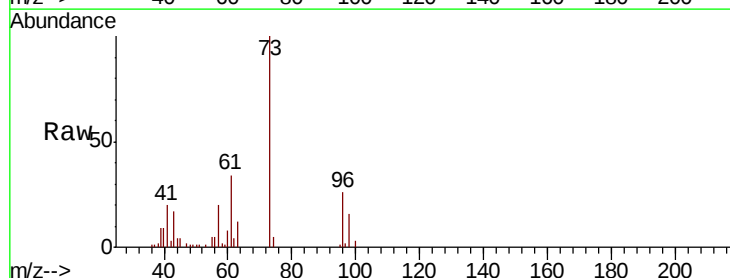
Tgt Ion: 73 Resp: 33627

Ion Ratio Lower Upper

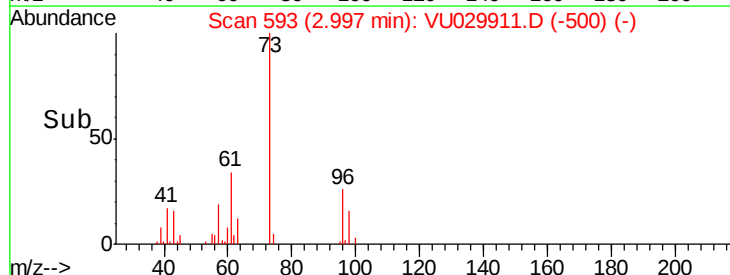
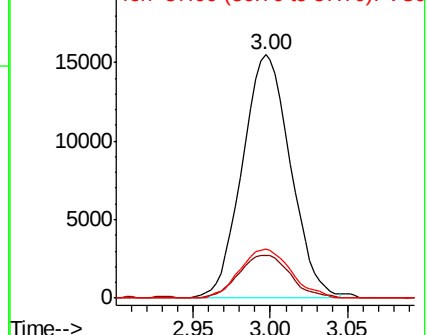
73 100

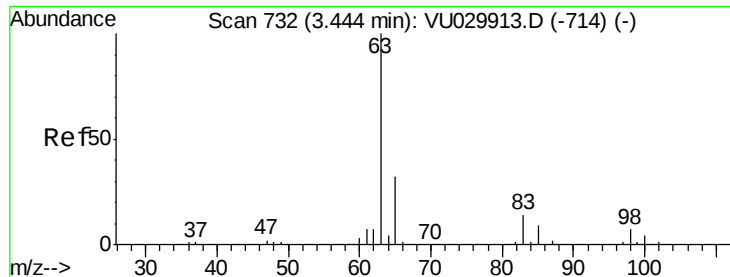
43 18.8 13.5 20.3

57 21.3 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

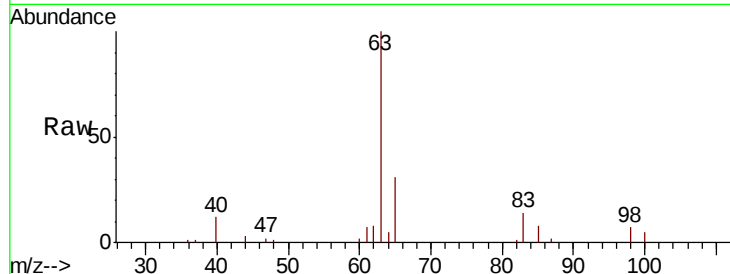




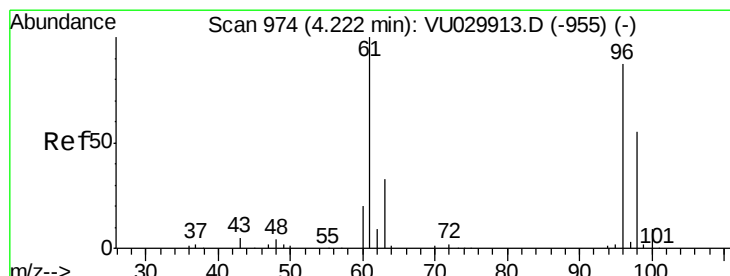
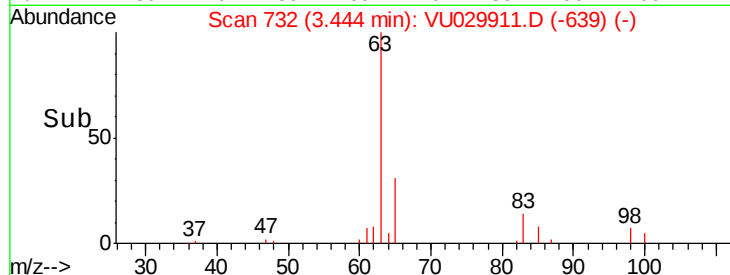
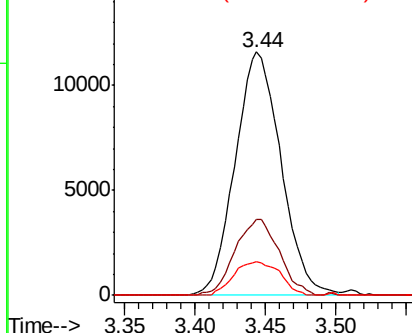
#19
 1,1-Dichloroethane
 Concen: 4.764 ug/L
 RT: 3.44 min Scan# 732
 Delta R.T. -0.00 min
 Lab File: VU029911.D
 Acq: 09 Mar 2019 11:18

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00542

Tgt Ion: 63 Resp: 26371
 Ion Ratio Lower Upper
 63 100
 65 31.2 22.4 41.6
 83 13.8 9.7 18.1

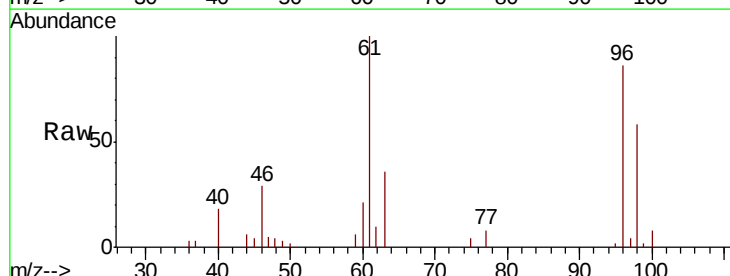


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

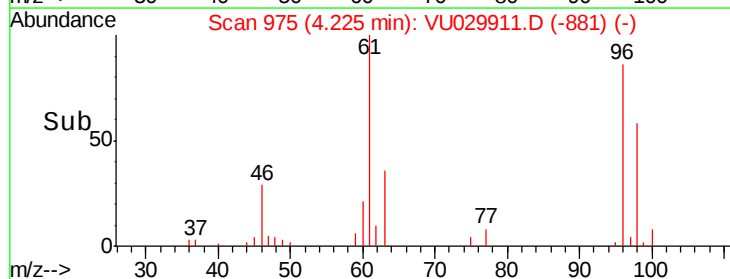
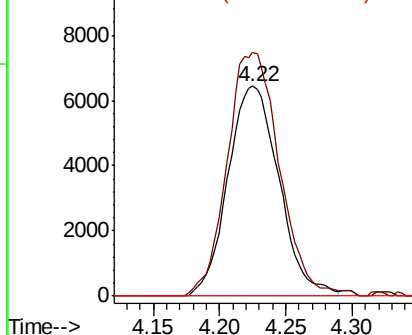


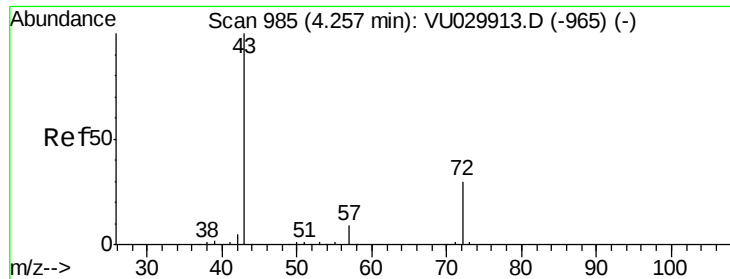
#20
 cis-1,2-Dichloroethene
 Concen: 4.664 ug/L
 RT: 4.22 min Scan# 975
 Delta R.T. 0.00 min
 Lab File: VU029911.D
 Acq: 09 Mar 2019 11:18

Tgt Ion: 96 Resp: 17274
 Ion Ratio Lower Upper
 96 100
 61 116.0 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: 8.882 ug/L

RT: 4.27 min Scan# 988

Delta R.T. 0.01 min

Lab File: VU029911.D

Acq: 09 Mar 2019 11:18

Instrument :

MSVOA_U

ClientSampleId :

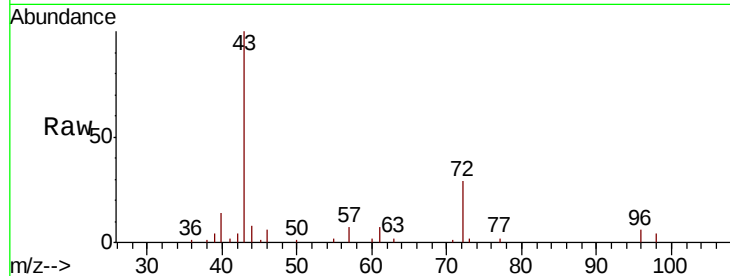
VSTD00542

Tgt Ion: 43 Resp: 25474

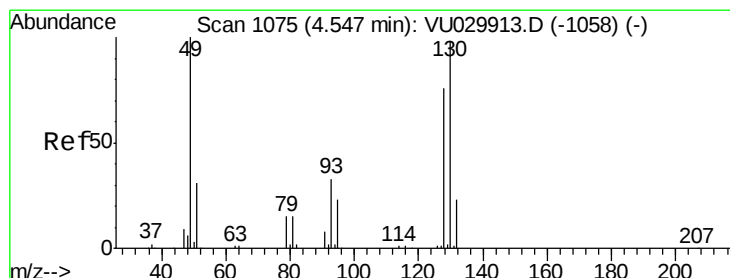
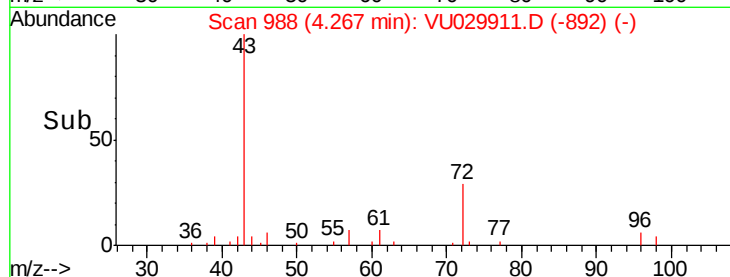
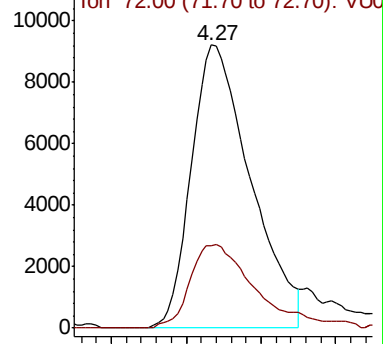
Ion Ratio Lower Upper

43 100

72 31.7 15.4 46.4



Abundance Ion 43.00 (42.70 to 43.70): VU029911.D (-982) (-)



#23

Bromochloromethane

Concen: 4.524 ug/L

RT: 4.55 min Scan# 1076

Delta R.T. 0.00 min

Lab File: VU029911.D

Acq: 09 Mar 2019 11:18

Tgt Ion: 128 Resp: 8971

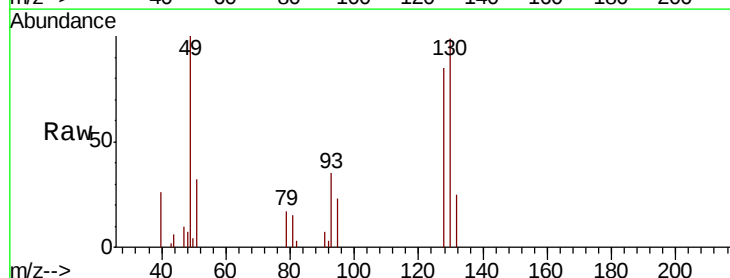
Ion Ratio Lower Upper

128 100

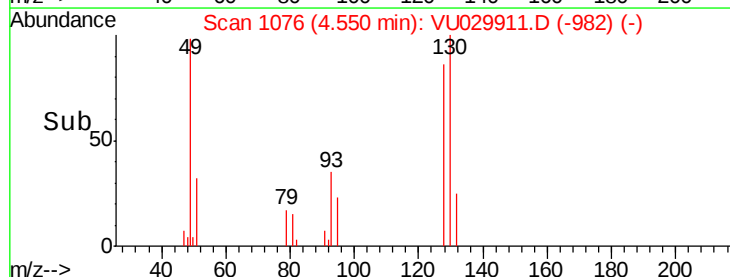
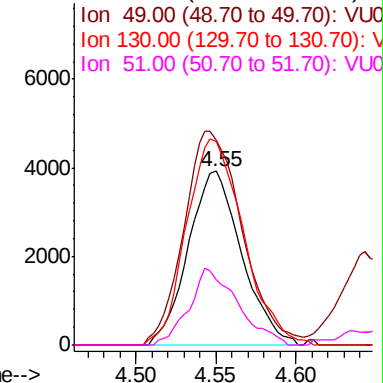
49 117.6 92.2 171.2

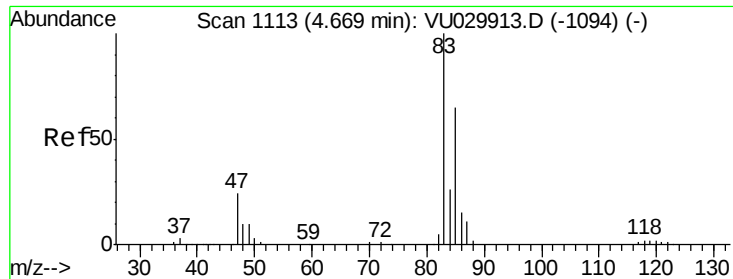
130 116.8 90.4 168.0

51 37.6 33.0 49.6



Abundance Ion 128.00 (127.70 to 128.70): VU029911.D (-982) (-)

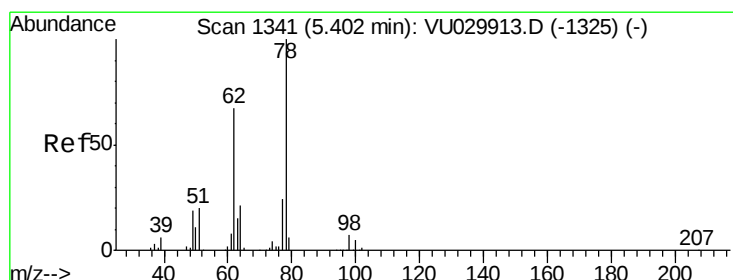
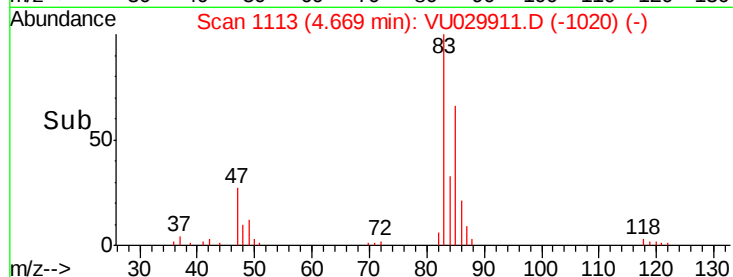
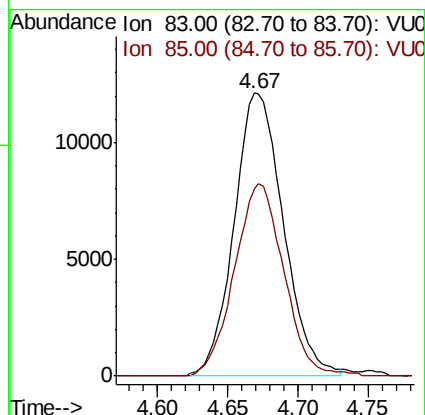
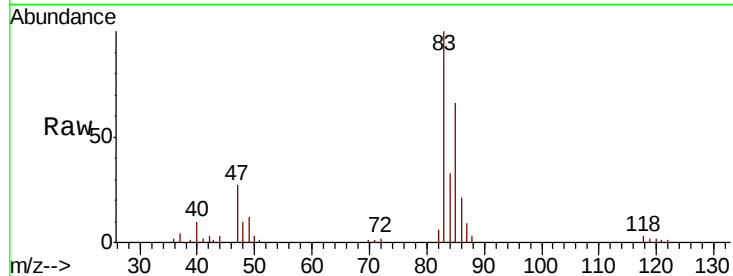




#25
Chloroform
Concen: 4.853 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VU029911.D
Acq: 09 Mar 2019 11:18

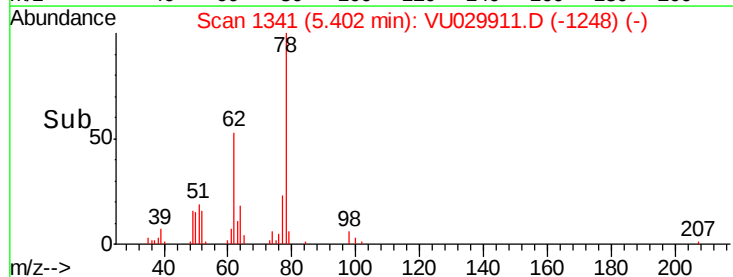
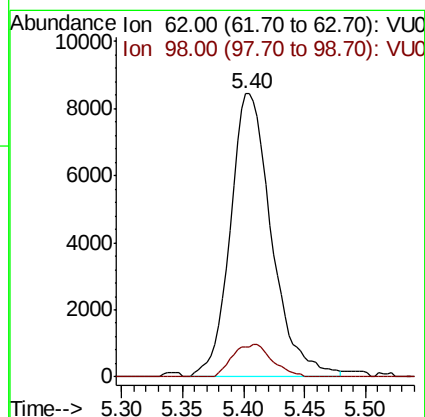
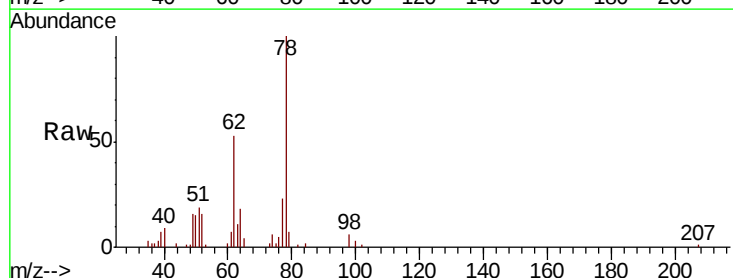
Instrument :
MSVOA_U
ClientSampleId :
VSTD00542

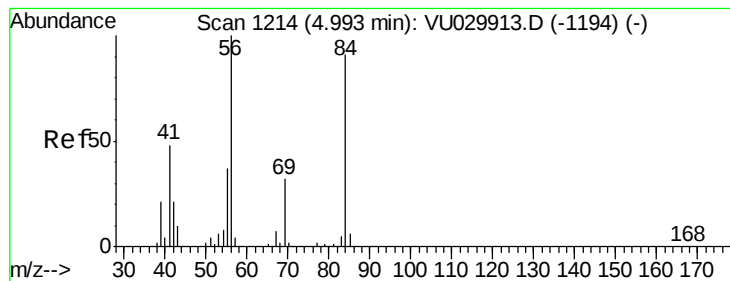
Tgt Ion: 83 Resp: 29653
Ion Ratio Lower Upper
83 100
85 66.3 45.3 84.1



#27
1,2-Dichloroethane
Concen: 4.299 ug/L
RT: 5.40 min Scan# 1341
Delta R.T. -0.00 min
Lab File: VU029911.D
Acq: 09 Mar 2019 11:18

Tgt Ion: 62 Resp: 19876
Ion Ratio Lower Upper
62 100
98 10.6 8.6 12.8





#29

Cyclohexane

Concen: 4.501 ug/L

RT: 4.99 min Scan# 1213

Delta R.T. -0.00 min

Lab File: VU029911.D

Acq: 09 Mar 2019 11:18

Instrument :

MSVOA_U

ClientSampleId :

VSTD00542

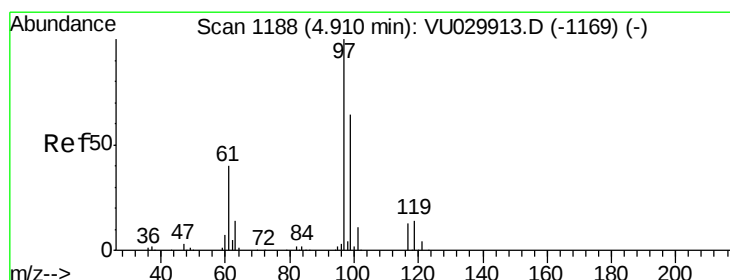
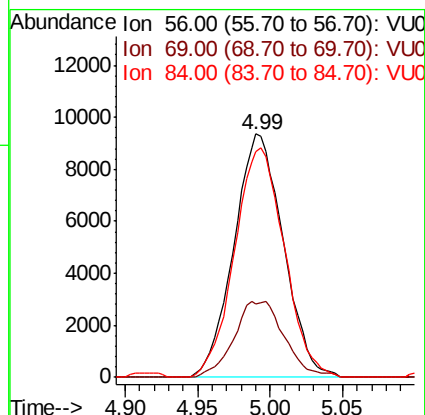
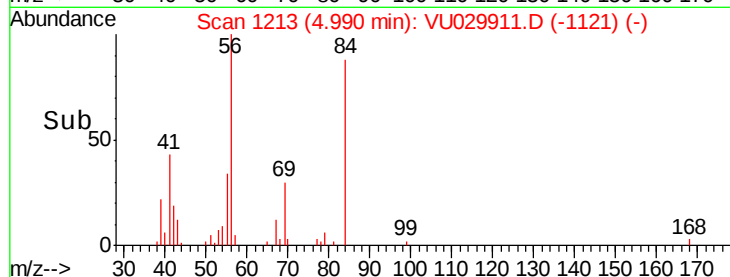
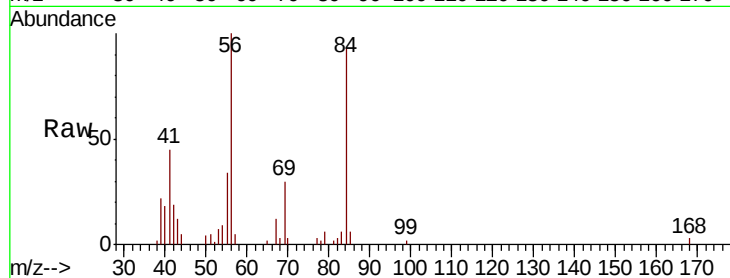
Tgt Ion: 56 Resp: 22197

Ion Ratio Lower Upper

56 100

69 15.2 25.4 38.0#

84 95.0 73.0 109.6



#30

1,1,1-Trichloroethane

Concen: 4.229 ug/L

RT: 4.91 min Scan# 1187

Delta R.T. -0.00 min

Lab File: VU029911.D

Acq: 09 Mar 2019 11:18

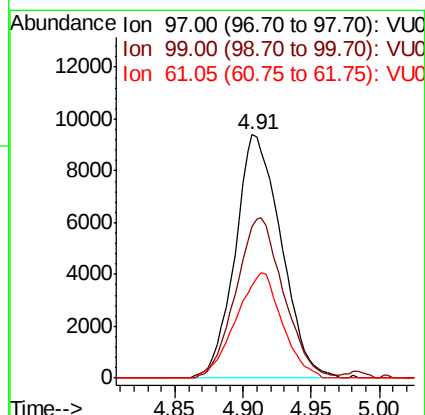
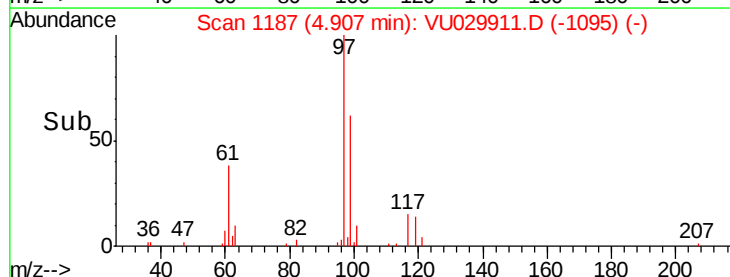
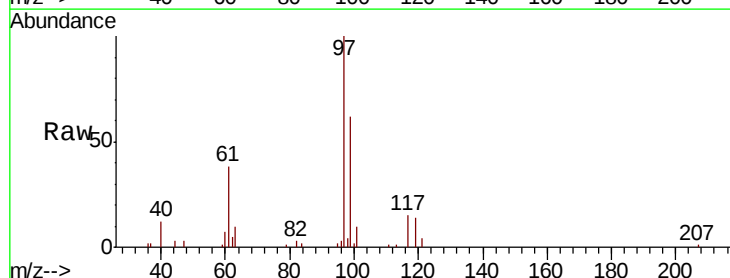
Tgt Ion: 97 Resp: 21979

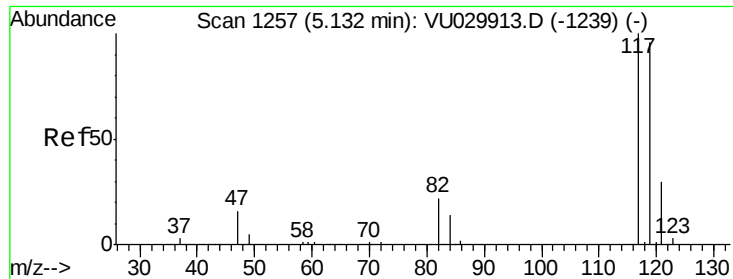
Ion Ratio Lower Upper

97 100

99 68.1 51.4 77.0

61 43.5 32.2 48.2





#31

Carbon tetrachloride

Concen: 4.446 ug/L

RT: 5.13 min Scan# 1257

Delta R.T. -0.00 min

Lab File: VU029911.D

Acq: 09 Mar 2019 11:18

Instrument :

MSVOA_U

ClientSampleId :

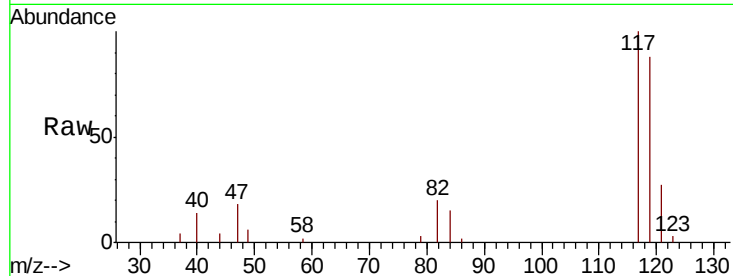
VSTD00542

Tgt Ion:117 Resp: 20767

Ion Ratio Lower Upper

117 100

119 89.9 76.9 115.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

5.13

10000

8000

6000

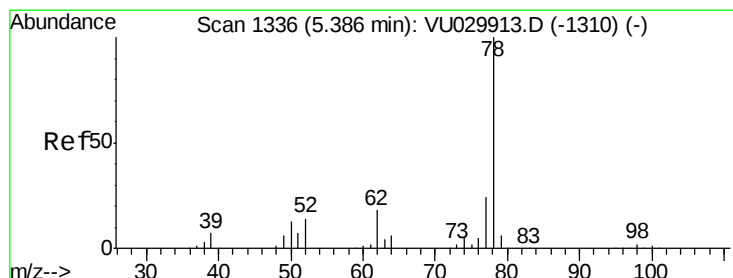
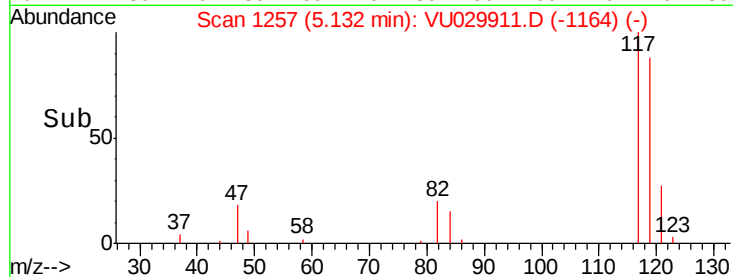
4000

2000

0

Time-->

5.05 5.10 5.15 5.20



#33

Benzene

Concen: 4.655 ug/L

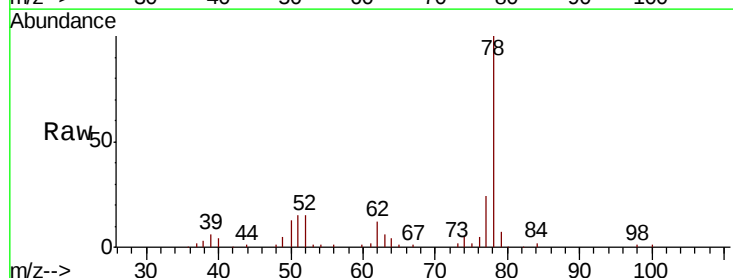
RT: 5.39 min Scan# 1336

Delta R.T. -0.00 min

Lab File: VU029911.D

Acq: 09 Mar 2019 11:18

Tgt Ion: 78 Resp: 59360



Abundance Ion 78.00 (77.70 to 78.70): VU0

5.39

30000

25000

20000

15000

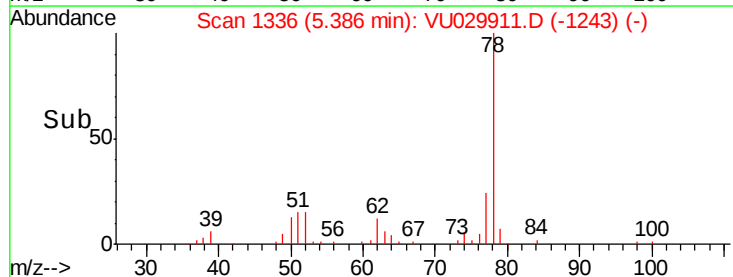
10000

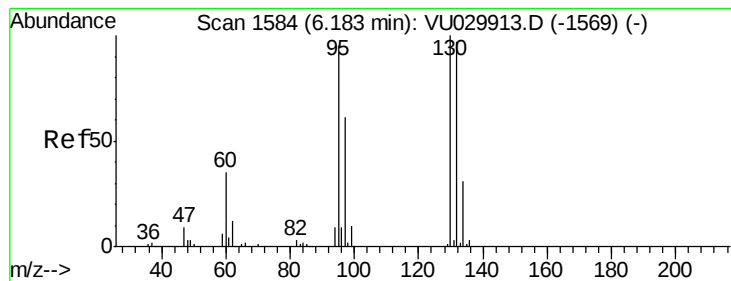
5000

0

Time-->

5.30 5.35 5.40 5.45 5.50





#34

Trichloroethene

Concen: 4.904 ug/L

RT: 6.19 min Scan# 1585

Delta R.T. 0.00 min

Lab File: VU029911.D

Acq: 09 Mar 2019 11:18

Instrument :

MSVOA_U

ClientSampleId :

VSTD00542

Tgt Ion: 95 Resp: 16706

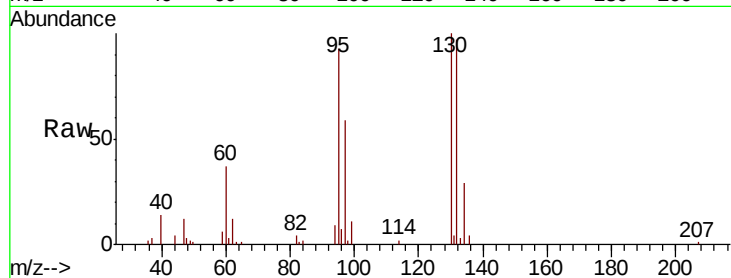
Ion Ratio Lower Upper

95 100

97 63.6 45.1 83.7

132 103.5 72.0 133.6

130 107.2 74.1 137.5

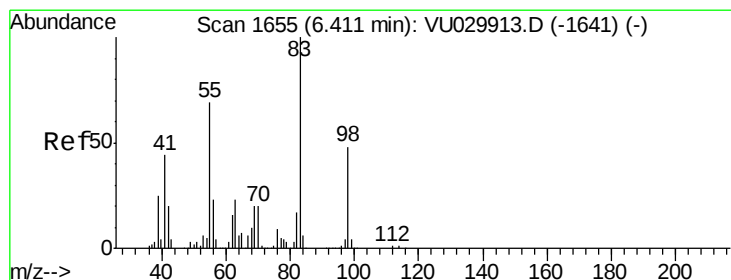
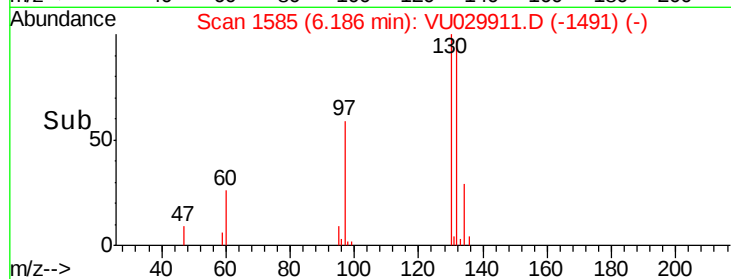
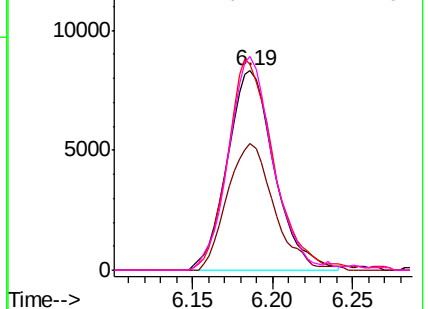


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 4.464 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VU029911.D

Acq: 09 Mar 2019 11:18

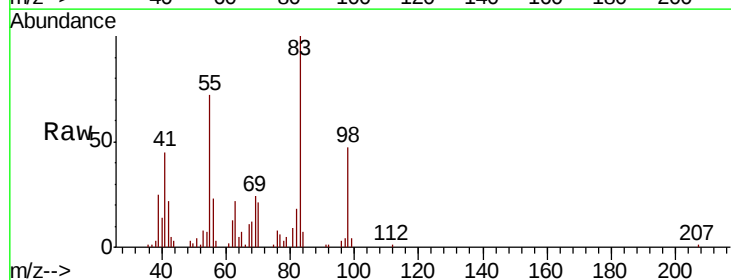
Tgt Ion: 83 Resp: 25337

Ion Ratio Lower Upper

83 100

55 69.4 55.5 83.3

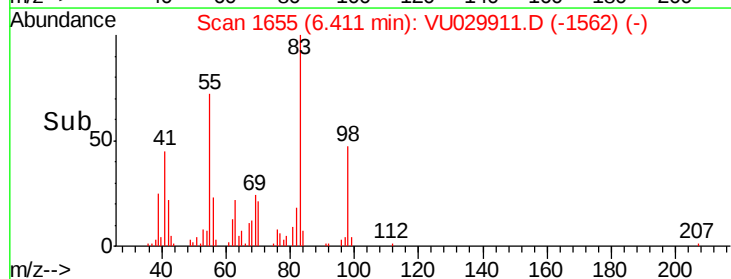
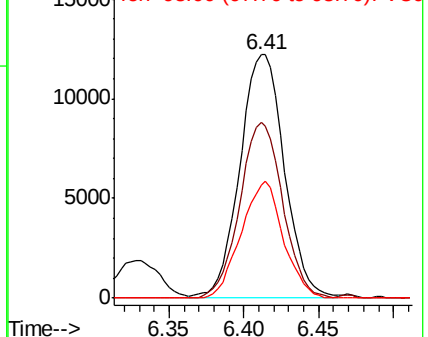
98 45.2 37.6 56.4

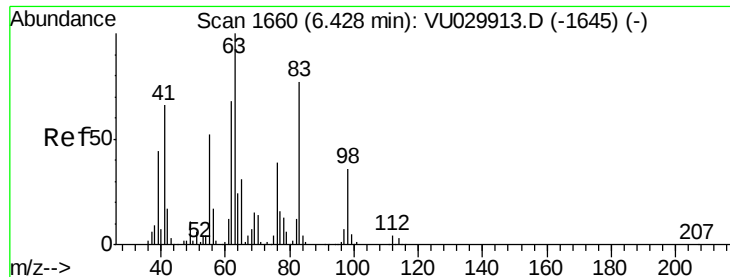


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

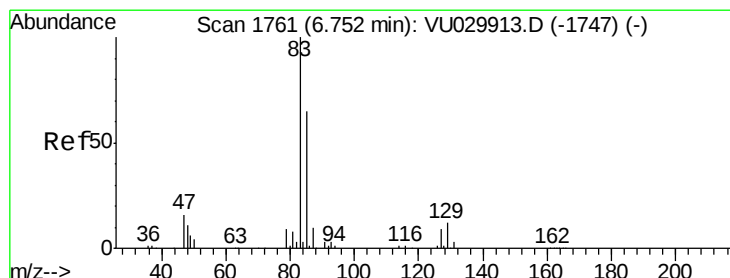
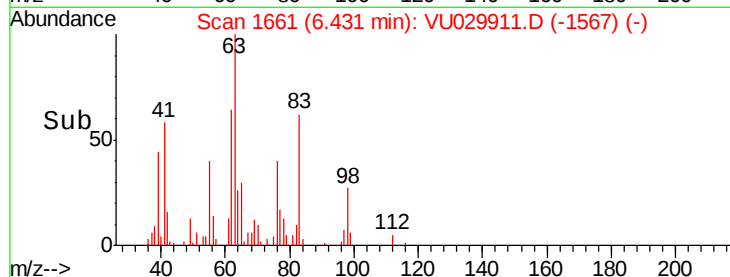
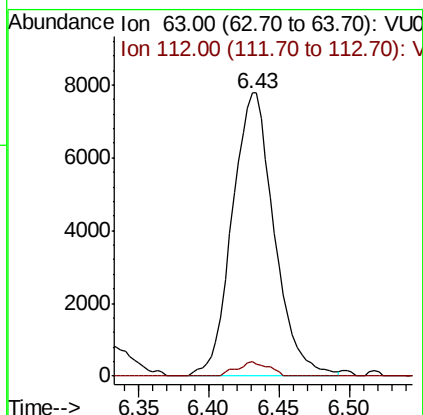
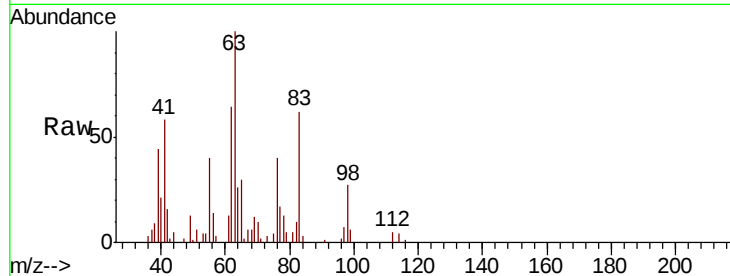




#37
 1,2-Dichloropropane
 Concen: 4.880 ug/L
 RT: 6.43 min Scan# 1661
 Delta R.T. 0.00 min
 Lab File: VU029911.D
 Acq: 09 Mar 2019 11:18

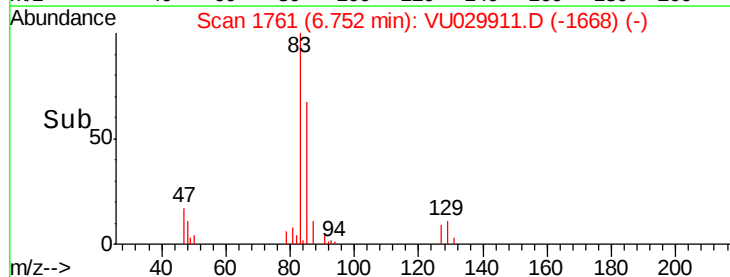
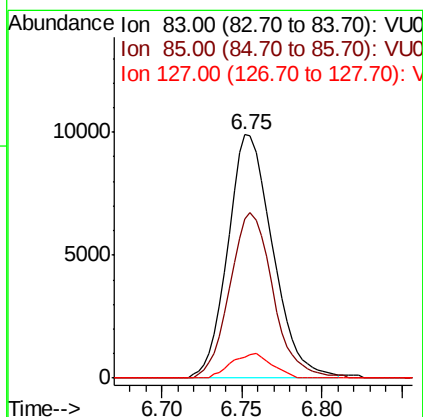
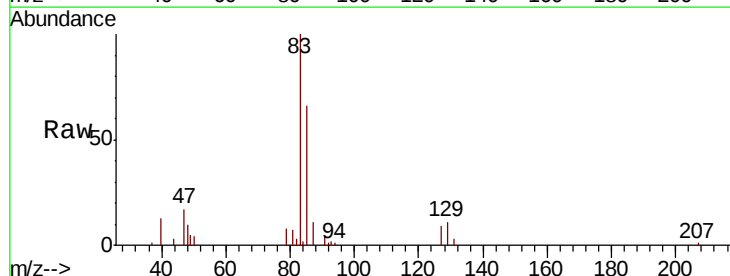
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00542

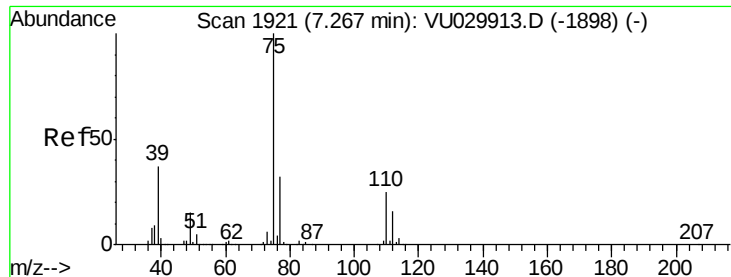
Tgt Ion: 63 Resp: 16244
 Ion Ratio Lower Upper
 63 100
 112 3.8 3.4 5.0



#38
 Bromodichloromethane
 Concen: 4.273 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. -0.00 min
 Lab File: VU029911.D
 Acq: 09 Mar 2019 11:18

Tgt Ion: 83 Resp: 18996
 Ion Ratio Lower Upper
 83 100
 85 65.6 45.2 84.0
 127 8.8 7.4 11.0



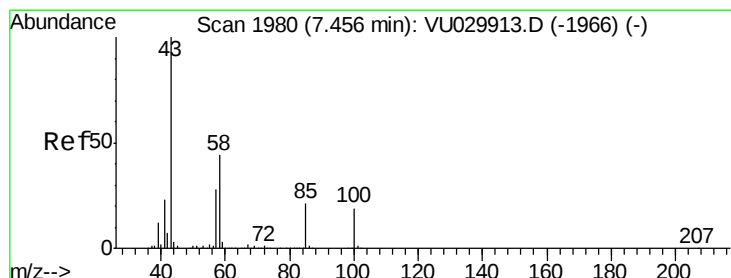
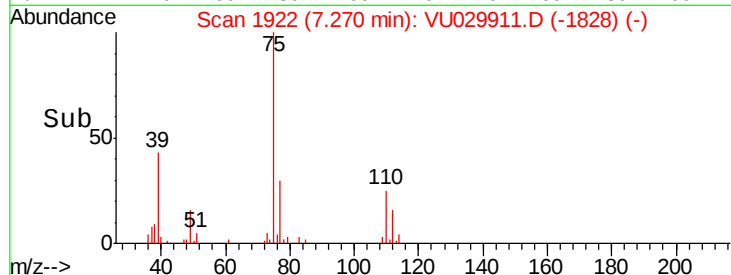
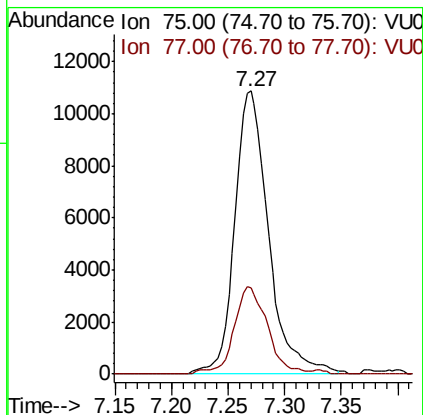
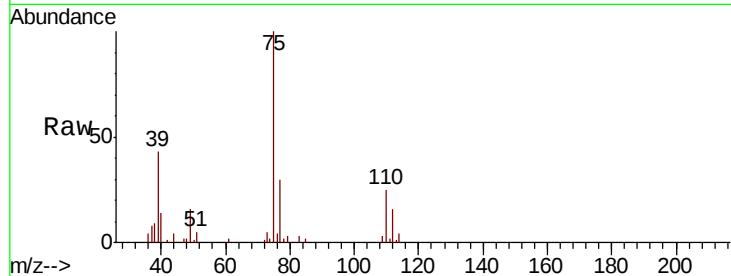


#39

cis-1,3-Dichloropropene
 Concen: 4.283 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.00 min
 Lab File: VU029911.D
 Acq: 09 Mar 2019 11:18

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00542

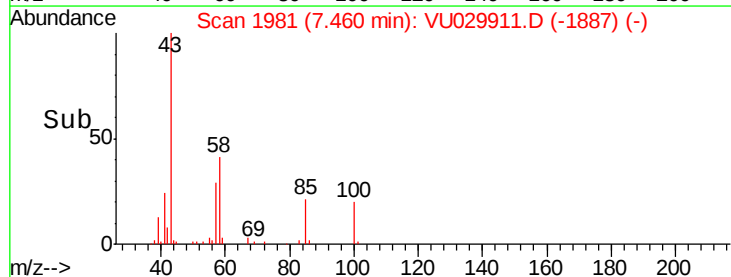
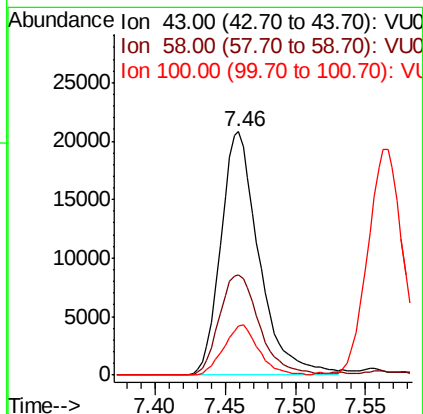
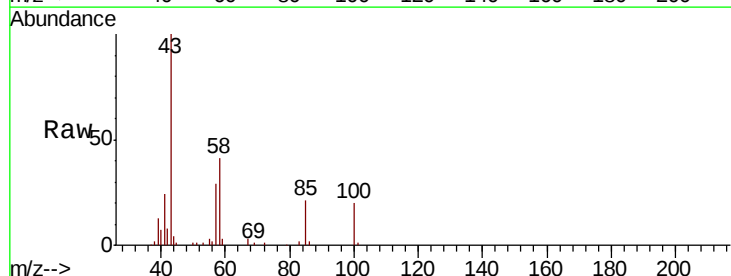
Tgt Ion: 75 Resp: 22665
 Ion Ratio Lower Upper
 75 100
 77 30.5 22.5 41.9

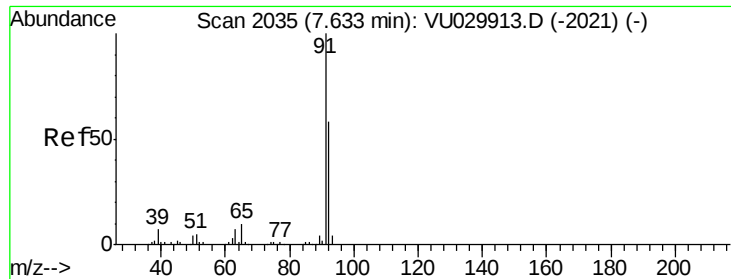


#40

4-Methyl-2-pentanone
 Concen: 8.484 ug/L
 RT: 7.46 min Scan# 1981
 Delta R.T. 0.00 min
 Lab File: VU029911.D
 Acq: 09 Mar 2019 11:18

Tgt Ion: 43 Resp: 39372
 Ion Ratio Lower Upper
 43 100
 58 43.1 35.0 52.6
 100 18.8 14.8 22.2





#42

Toluene

Concen: 4.192 ug/L

RT: 7.64 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VU029911.D

Acq: 09 Mar 2019 11:18

Instrument :

MSVOA_U

ClientSampleId :

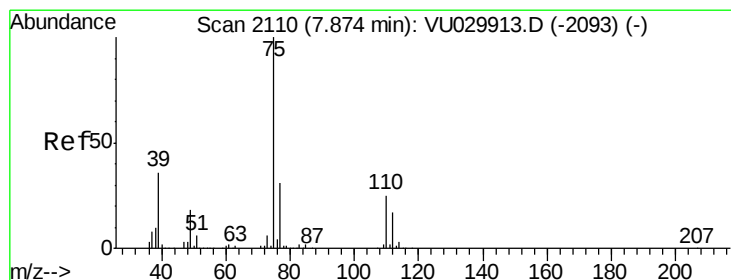
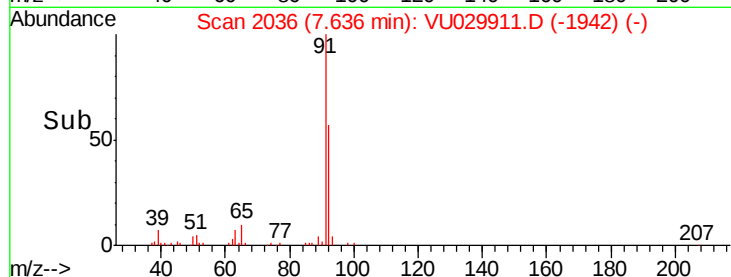
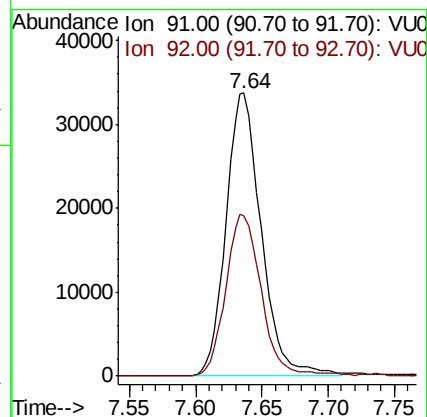
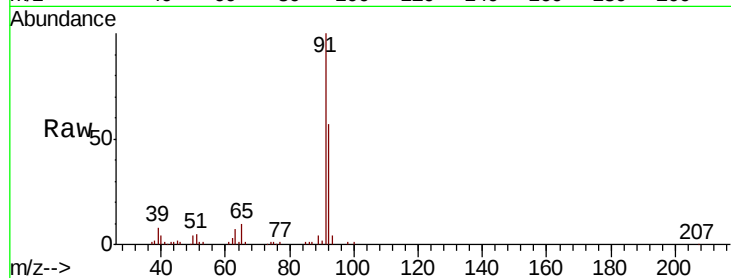
VSTD00542

Tgt Ion: 91 Resp: 62402

Ion Ratio Lower Upper

91 100

92 56.7 40.5 75.1



#44

trans-1,3-Dichloropropene

Concen: 3.790 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.01 min

Lab File: VU029911.D

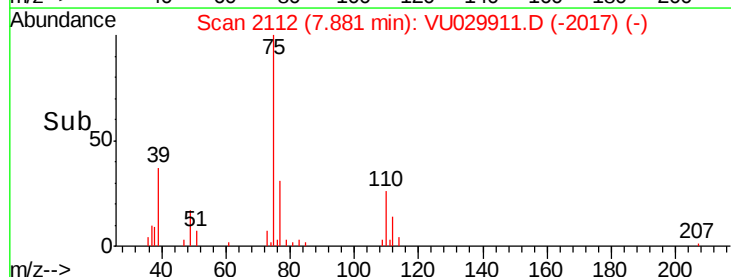
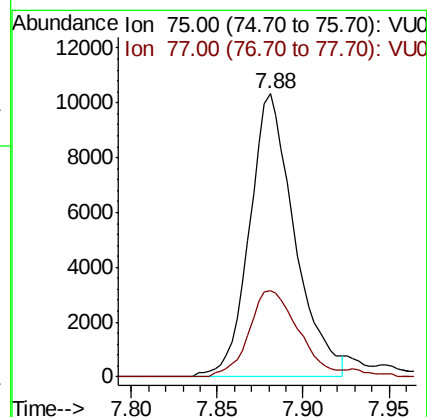
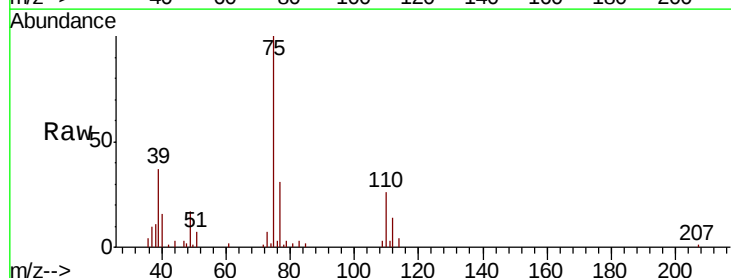
Acq: 09 Mar 2019 11:18

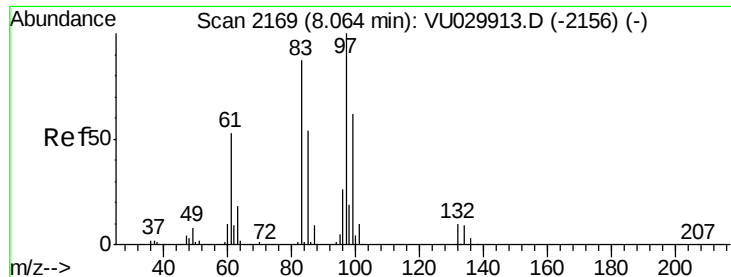
Tgt Ion: 75 Resp: 18834

Ion Ratio Lower Upper

75 100

77 30.7 21.8 40.6

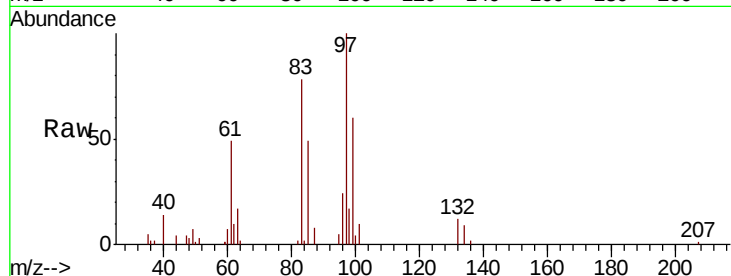




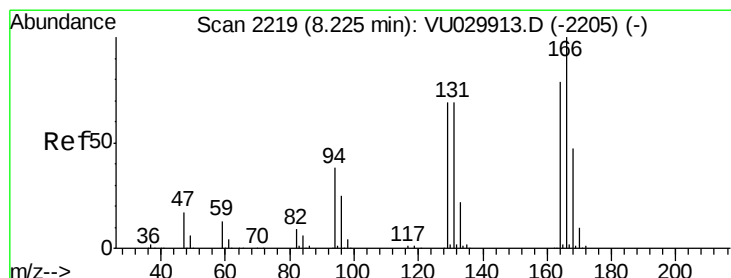
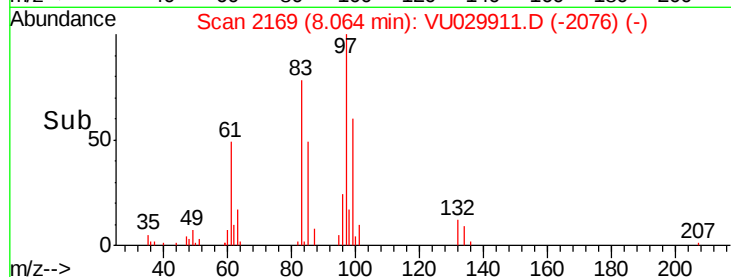
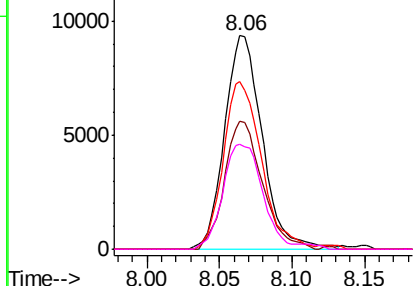
#45
 1,1,2-Trichloroethane
 Concen: 4.792 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. -0.00 min
 Lab File: VU029911.D
 Acq: 09 Mar 2019 11:18

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00542

Tgt Ion: 97 Resp: 16833
 Ion Ratio Lower Upper
 97 100
 99 59.9 43.7 81.1
 83 78.4 60.8 112.8
 85 49.4 38.1 70.7

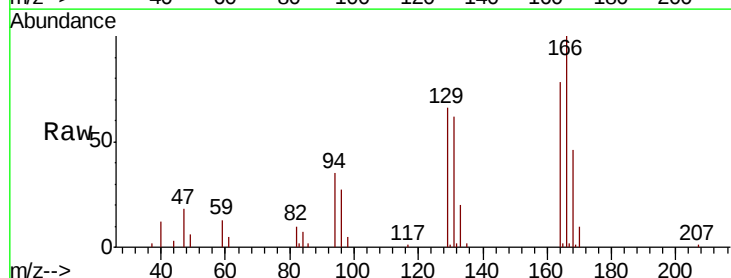


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0
 Ion 85.00 (84.70 to 85.70): VU0

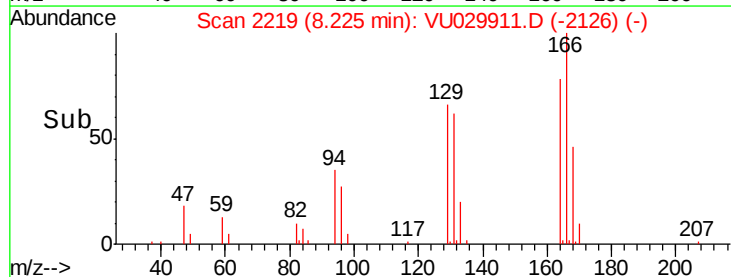
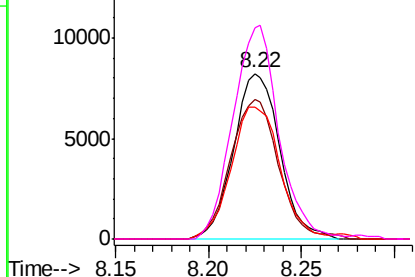


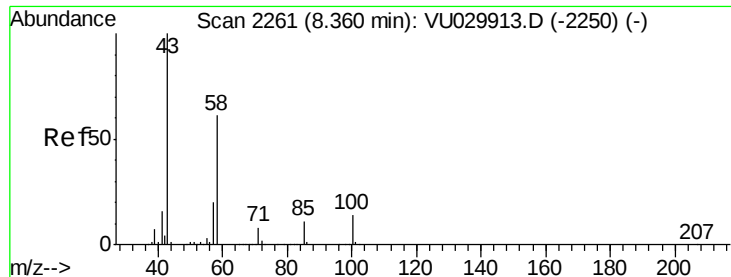
#46
 Tetrachloroethene
 Concen: 4.349 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. -0.00 min
 Lab File: VU029911.D
 Acq: 09 Mar 2019 11:18

Tgt Ion: 164 Resp: 14250
 Ion Ratio Lower Upper
 164 100
 129 84.3 61.0 113.2
 131 79.6 60.5 112.3
 166 127.6 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

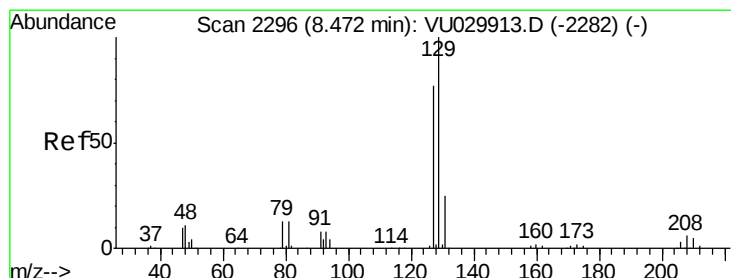
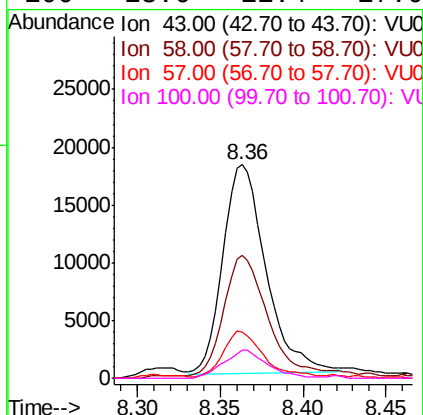
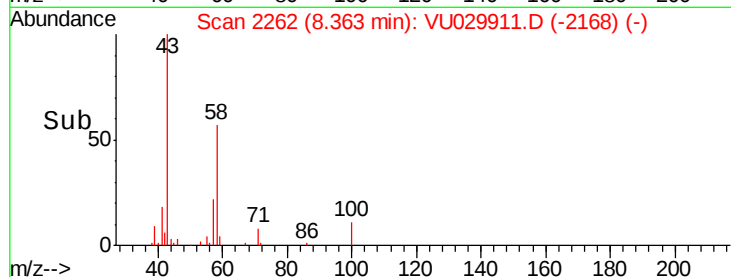
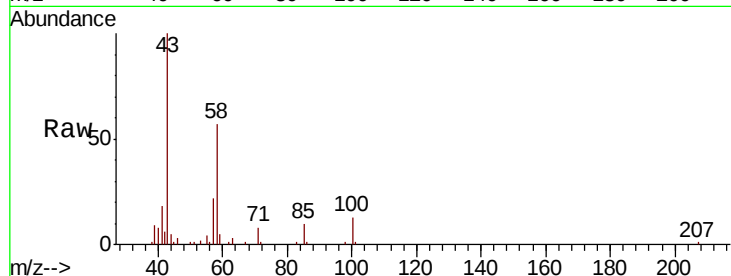




#48
2-Hexanone
Concen: 8.141 ug/L
RT: 8.36 min Scan# 2262
Delta R.T. 0.00 min
Lab File: VU029911.D
Acq: 09 Mar 2019 11:18

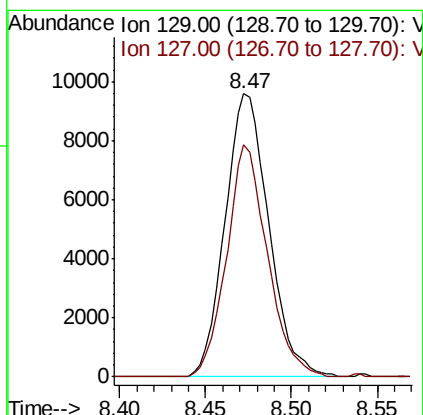
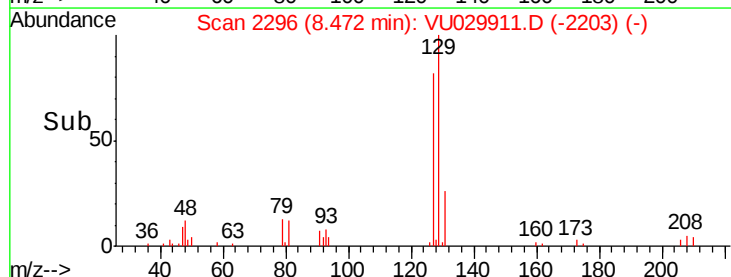
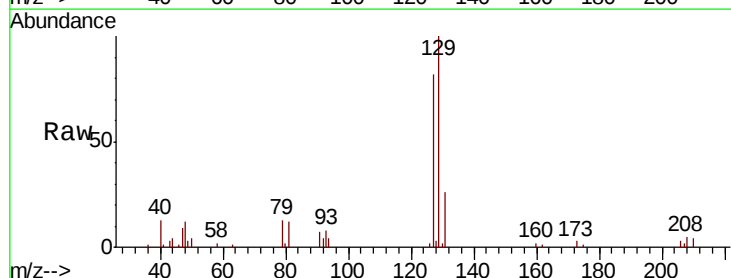
Instrument :
MSVOA_U
ClientSampleId :
VSTD00542

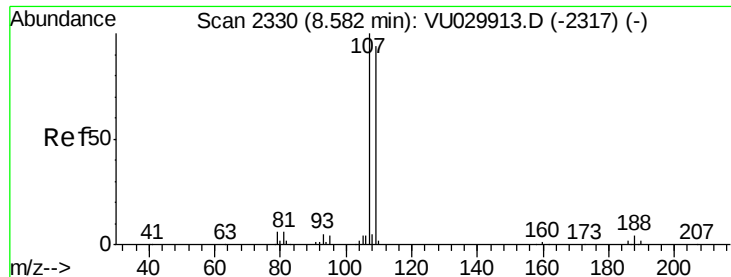
Tgt Ion: 43 Resp: 32947
Ion Ratio Lower Upper
43 100
58 60.3 49.2 73.8
57 20.4 16.6 25.0
100 13.6 11.4 17.0



#49
Dibromochloromethane
Concen: 4.080 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU029911.D
Acq: 09 Mar 2019 11:18

Tgt Ion: 129 Resp: 17032
Ion Ratio Lower Upper
129 100
127 82.0 54.3 100.8





#50

1,2-Dibromoethane

Concen: 4.331 ug/L

RT: 8.59 min Scan# 2332

Delta R.T. 0.01 min

Lab File: VU029911.D

Acq: 09 Mar 2019 11:18

Instrument :

MSVOA_U

ClientSampleId :

VSTD00542

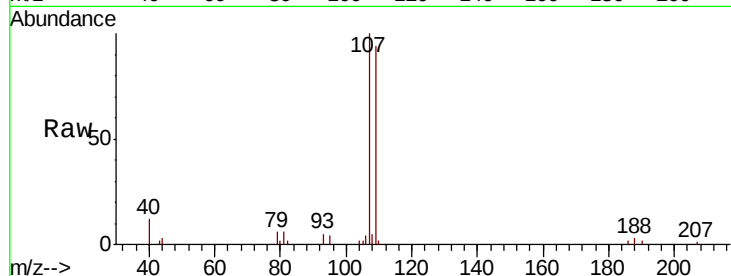
Tgt Ion:107 Resp: 16798

Ion Ratio Lower Upper

107 100

109 94.1 65.7 121.9

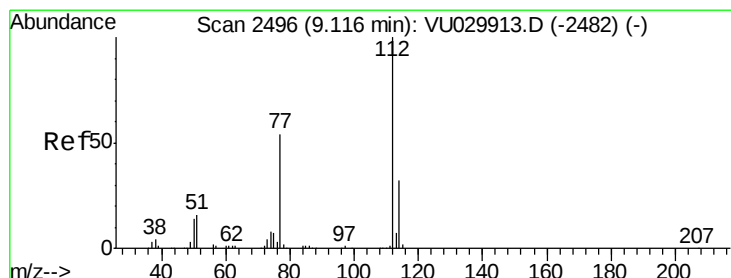
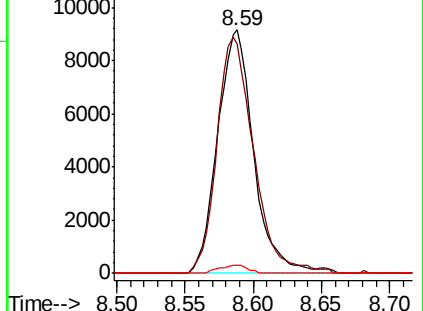
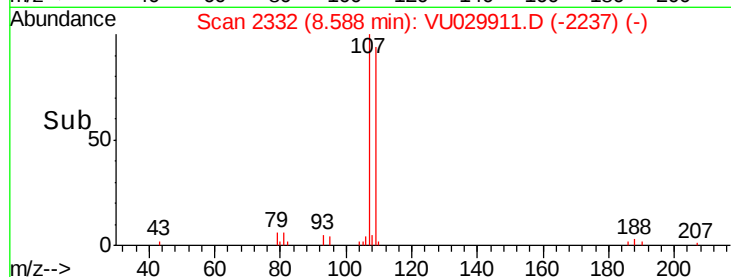
188 3.4 2.9 4.3



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51

Chlorobenzene

Concen: 4.438 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. -0.00 min

Lab File: VU029911.D

Acq: 09 Mar 2019 11:18

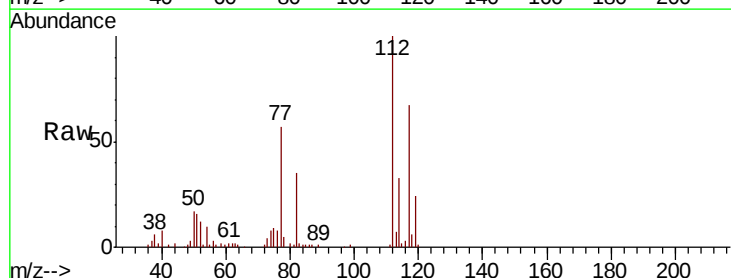
Tgt Ion:112 Resp: 44926

Ion Ratio Lower Upper

112 100

114 33.2 22.4 41.6

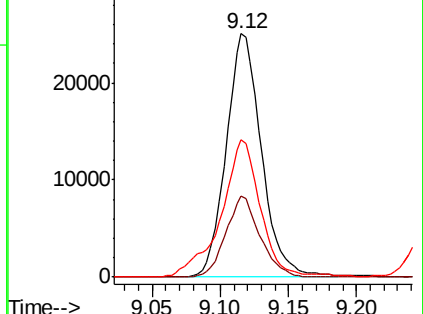
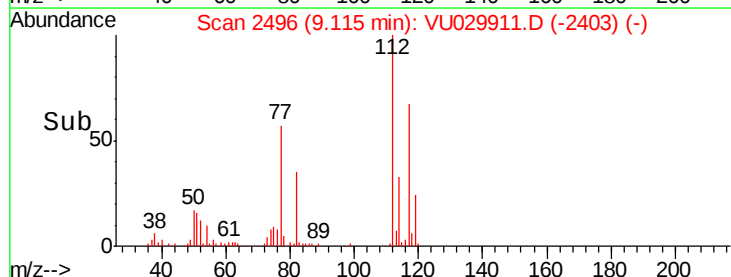
77 56.5 43.5 65.3

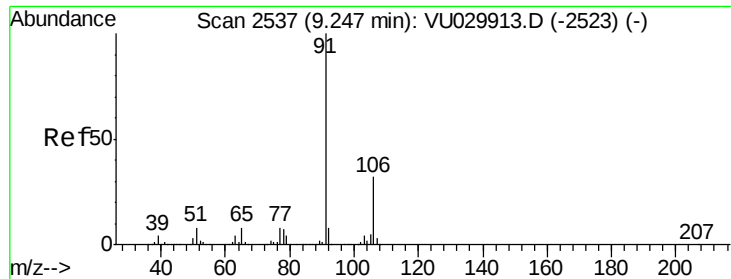


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU





#52

Ethylbenzene

Concen: 4.096 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. -0.00 min

Lab File: VU029911.D

Acq: 09 Mar 2019 11:18

Instrument :

MSVOA_U

ClientSampleId :

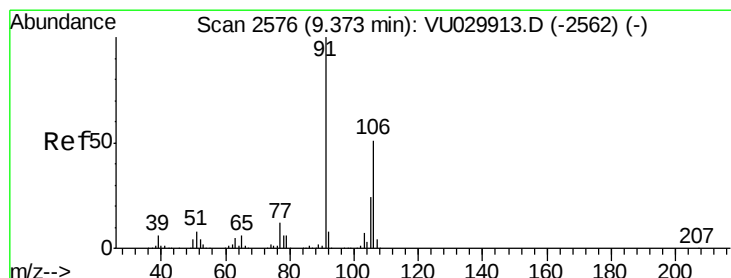
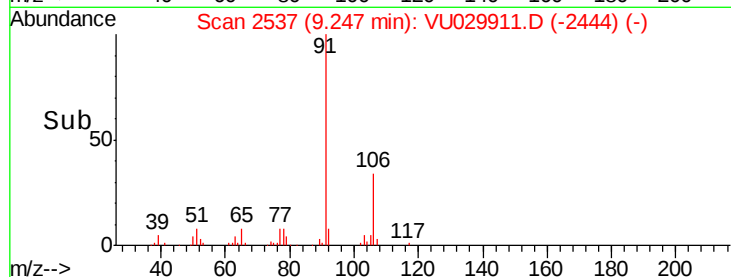
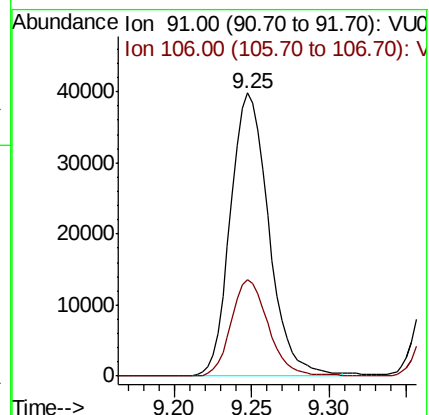
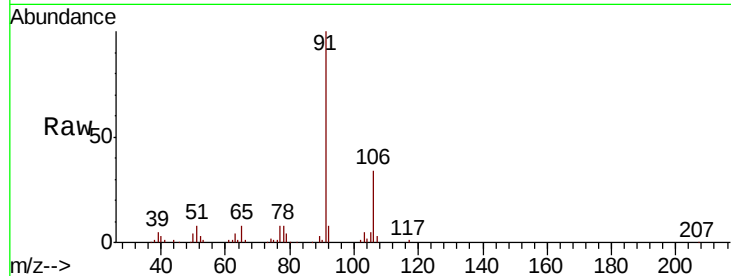
VSTD00542

Tgt Ion: 91 Resp: 68659

Ion Ratio Lower Upper

91 100

106 34.1 22.5 41.7



#53

m,p-Xylene

Concen: 3.814 ug/L

RT: 9.38 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VU029911.D

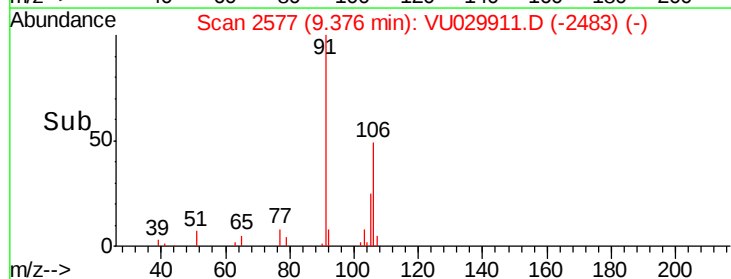
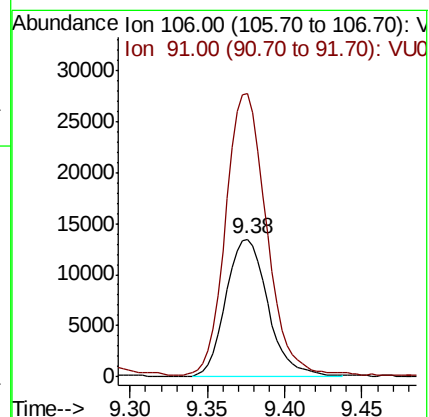
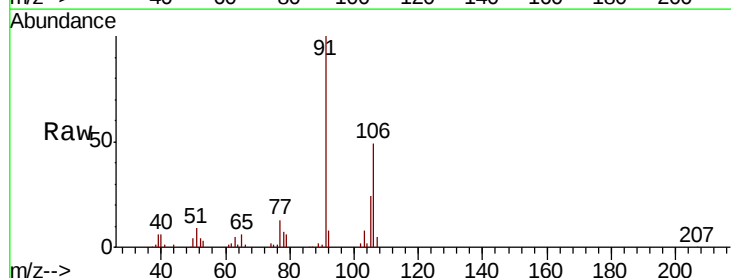
Acq: 09 Mar 2019 11:18

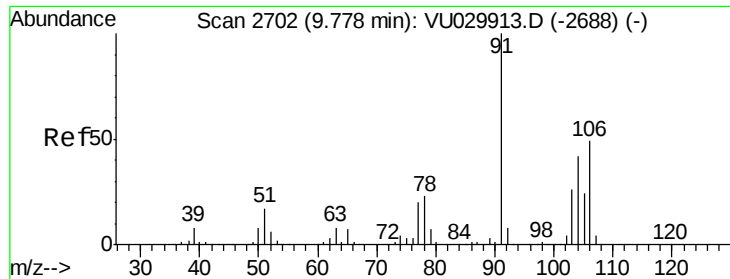
Tgt Ion: 106 Resp: 25523

Ion Ratio Lower Upper

106 100

91 205.7 137.8 256.0





#54

o-xylene

Concen: 3.848 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. -0.00 min

Lab File: VU029911.D

Acq: 09 Mar 2019 11:18

Instrument :

MSVOA_U

ClientSampleId :

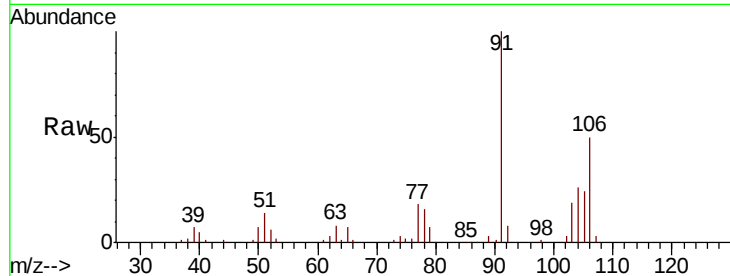
VSTD00542

Tgt Ion:106 Resp: 25798

Ion Ratio Lower Upper

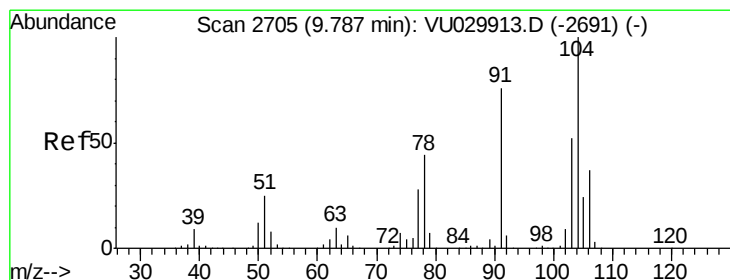
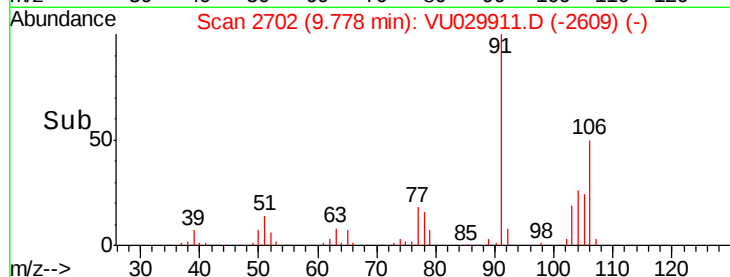
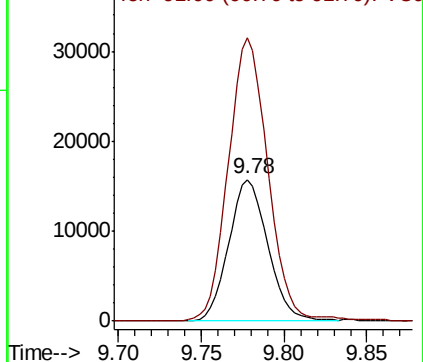
106 100

91 199.6 143.6 266.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 3.477 ug/L

RT: 9.79 min Scan# 2707

Delta R.T. 0.01 min

Lab File: VU029911.D

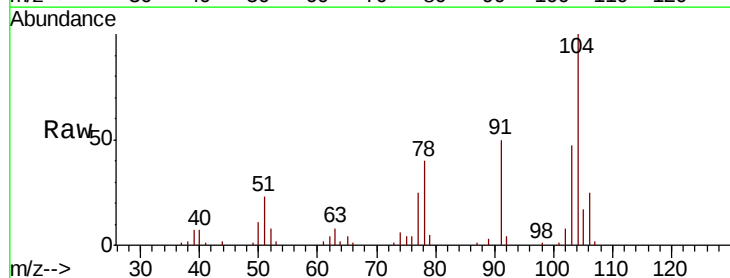
Acq: 09 Mar 2019 11:18

Tgt Ion:104 Resp: 39098

Ion Ratio Lower Upper

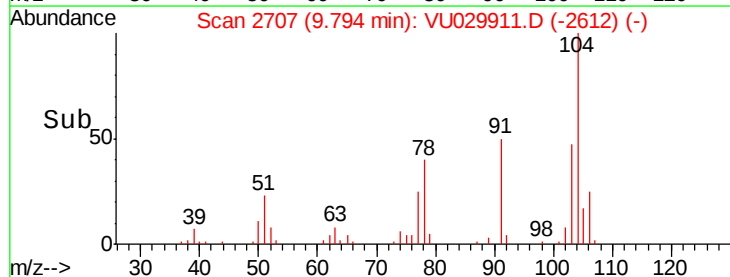
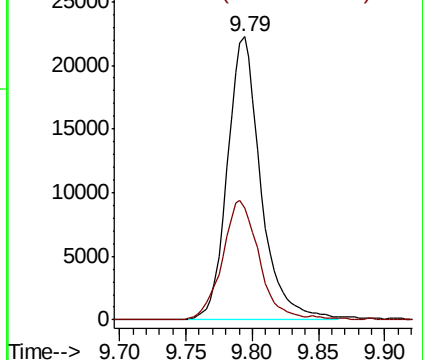
104 100

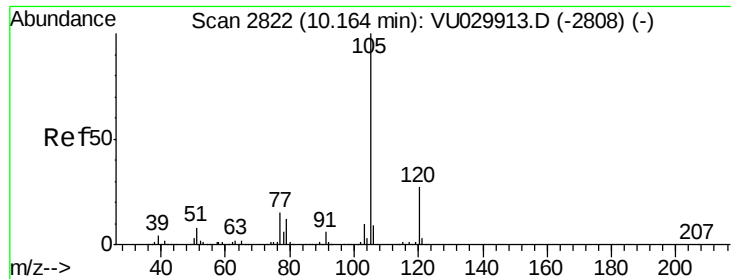
78 39.6 30.6 56.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 3.727 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU029911.D

Acq: 09 Mar 2019 11:18

Instrument :

MSVOA_U

ClientSampleId :

VSTD00542

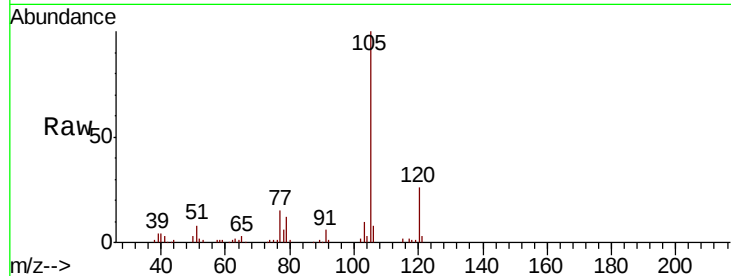
Tgt Ion: 105 Resp: 65345

Ion Ratio Lower Upper

105 100

120 26.2 21.6 32.4

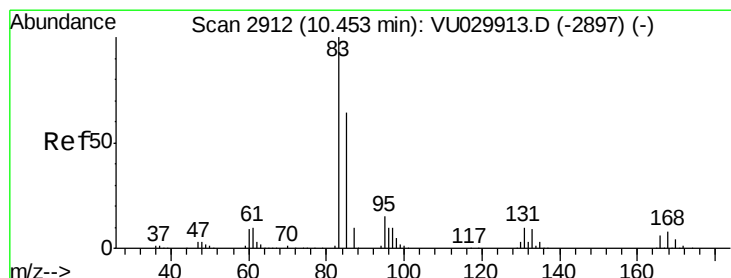
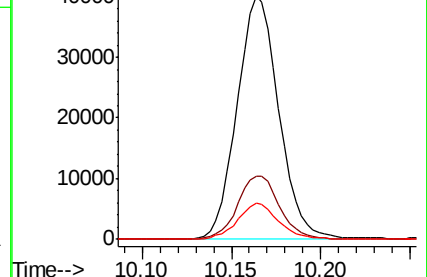
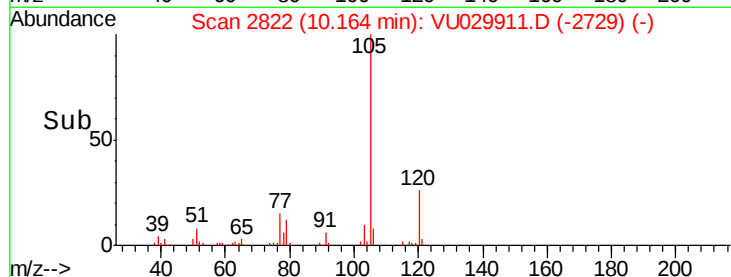
77 14.6 11.5 17.3



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: 4.250 ug/L

RT: 10.46 min Scan# 2913

Delta R.T. 0.00 min

Lab File: VU029911.D

Acq: 09 Mar 2019 11:18

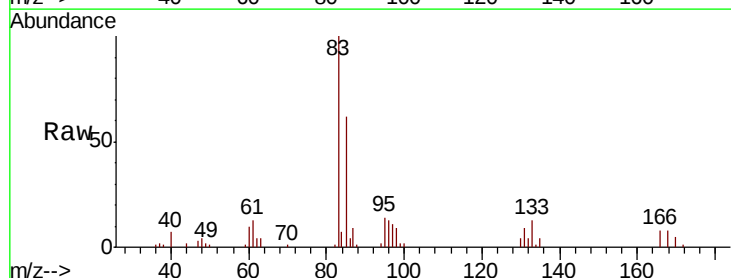
Tgt Ion: 83 Resp: 26368

Ion Ratio Lower Upper

83 100

85 61.9 45.0 83.6

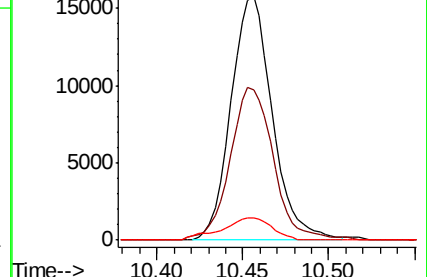
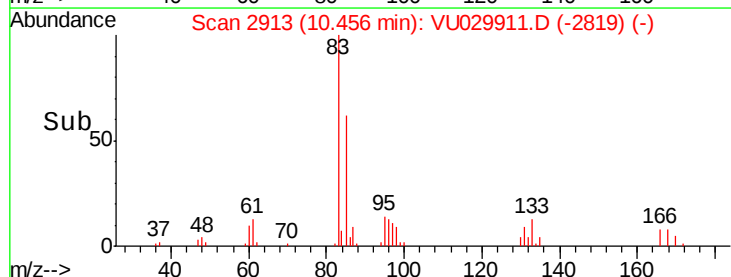
131 9.1 8.0 12.0

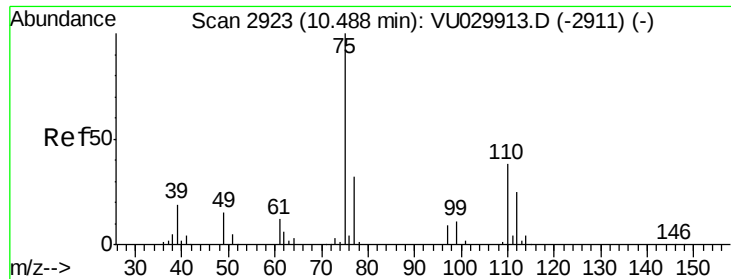


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

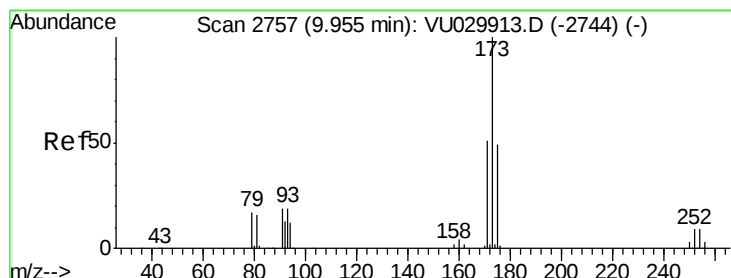
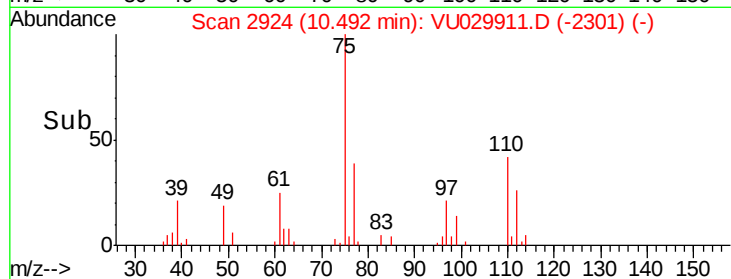
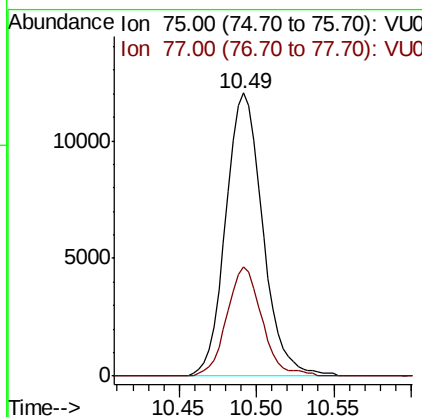
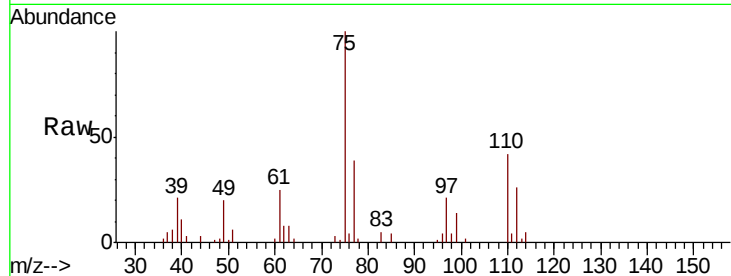




#59
 1,2,3-Trichloropropane
 Concen: 4.257 ug/L
 RT: 10.49 min Scan# 2924
 Delta R.T. 0.00 min
 Lab File: VU029911.D
 Acq: 09 Mar 2019 11:18

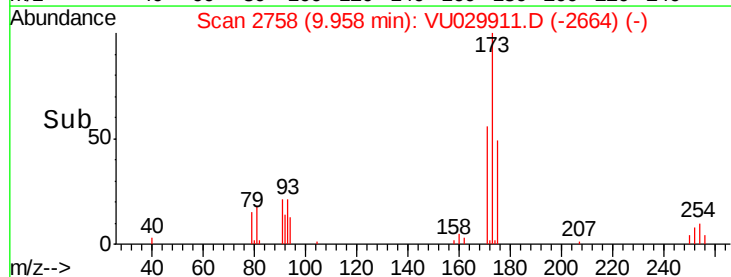
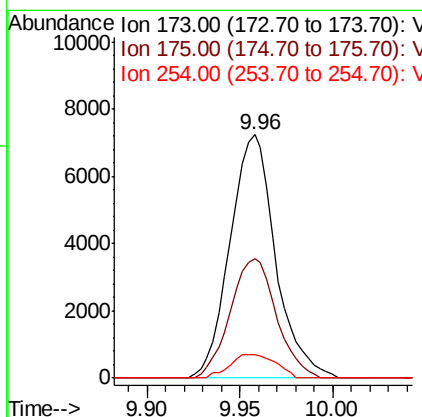
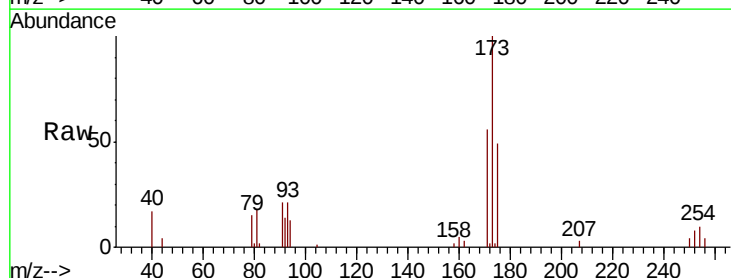
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00542

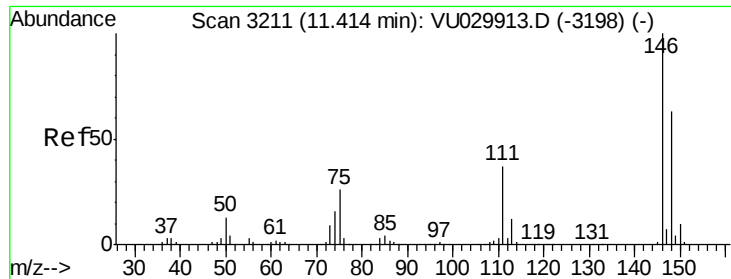
Tgt Ion: 75 Resp: 19967
 Ion Ratio Lower Upper
 75 100
 77 35.9 26.1 39.1



#61
 Bromoform
 Concen: 3.877 ug/L
 RT: 9.96 min Scan# 2758
 Delta R.T. 0.00 min
 Lab File: VU029911.D
 Acq: 09 Mar 2019 11:18

Tgt Ion: 173 Resp: 12301
 Ion Ratio Lower Upper
 173 100
 175 49.8 38.7 58.1
 254 9.8 7.4 11.2

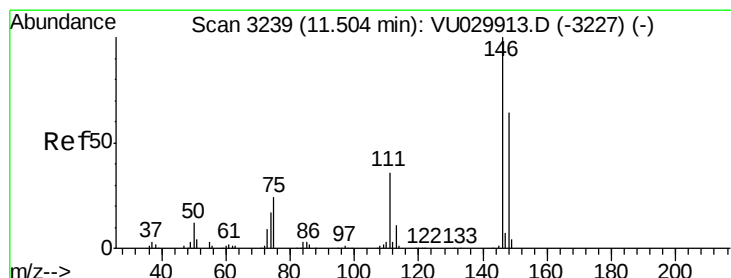
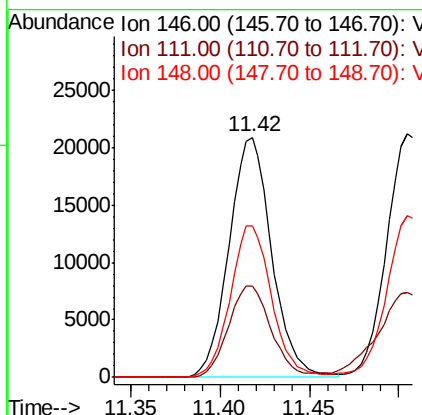
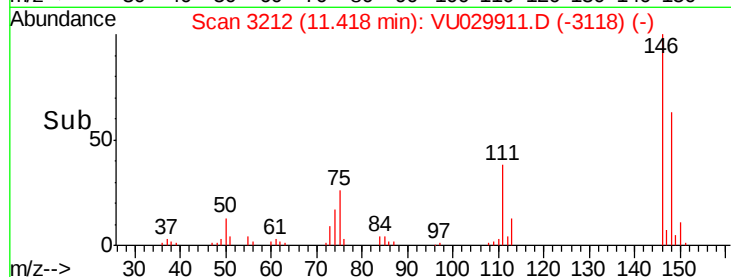
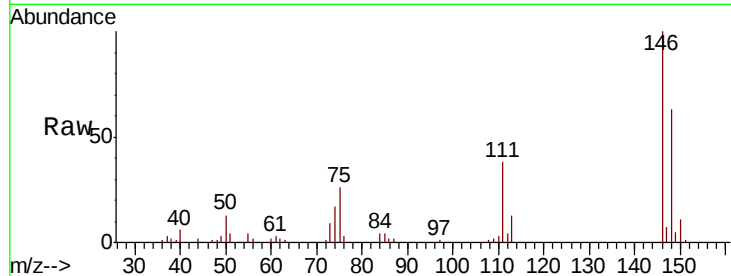




#62
 1,3-Dichlorobenzene
 Concen: 4.589 ug/L
 RT: 11.42 min Scan# 3212
 Delta R.T. 0.00 min
 Lab File: VU029911.D
 Acq: 09 Mar 2019 11:18

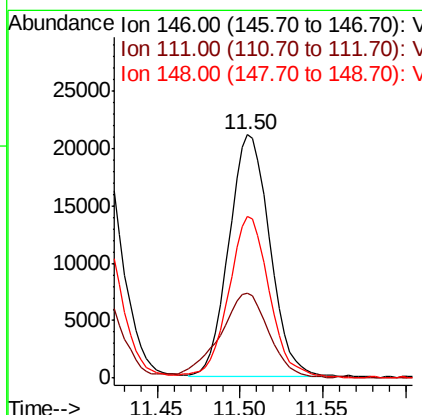
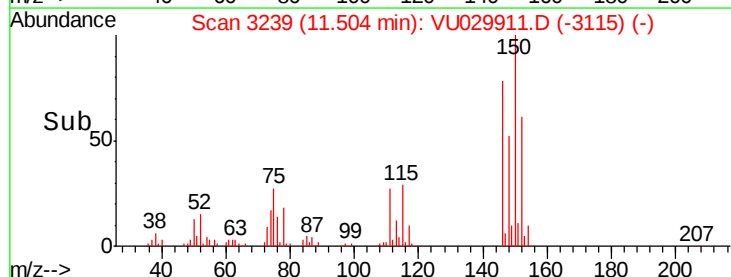
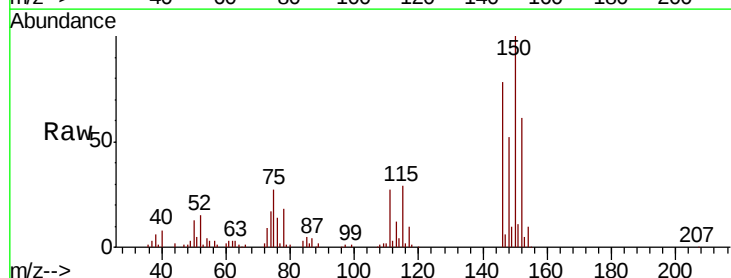
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00542

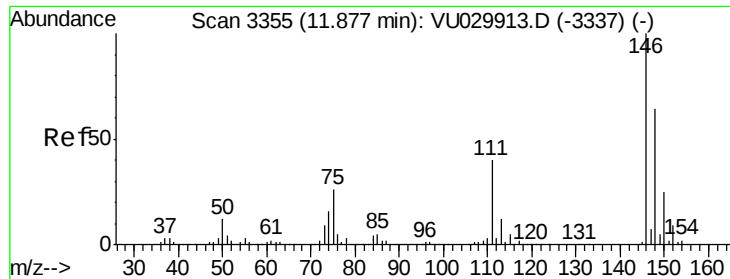
Tgt Ion:146 Resp: 34883
 Ion Ratio Lower Upper
 146 100
 111 38.0 25.7 47.7
 148 63.3 44.2 82.0



#63
 1,4-Dichlorobenzene
 Concen: 4.706 ug/L
 RT: 11.50 min Scan# 3239
 Delta R.T. -0.00 min
 Lab File: VU029911.D
 Acq: 09 Mar 2019 11:18

Tgt Ion:146 Resp: 36051
 Ion Ratio Lower Upper
 146 100
 111 35.0 25.3 46.9
 148 66.3 44.9 83.3

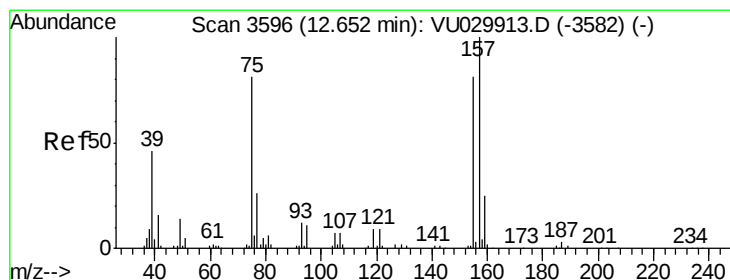
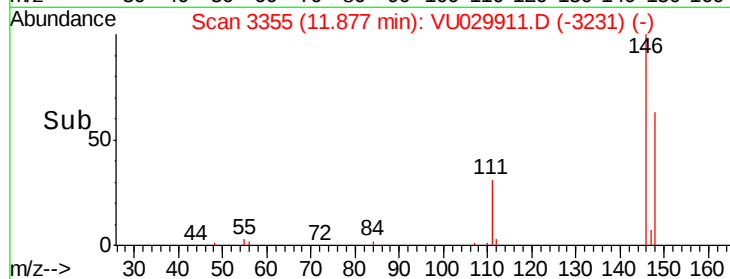
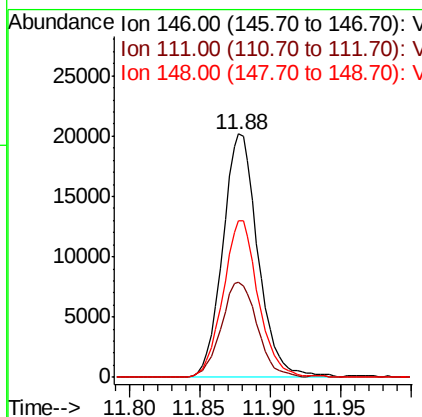
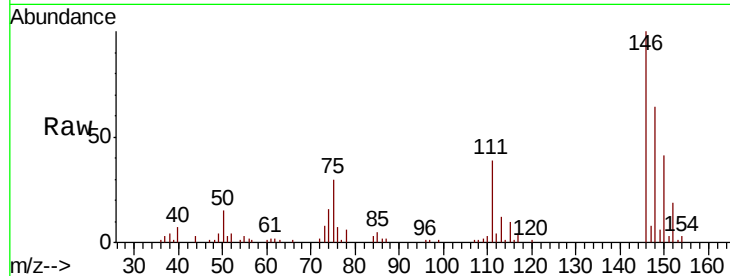




#65
 1,2-Dichlorobenzene
 Concen: 4.441 ug/L
 RT: 11.88 min Scan# 3355
 Delta R.T. -0.00 min
 Lab File: VU029911.D
 Acq: 09 Mar 2019 11:18

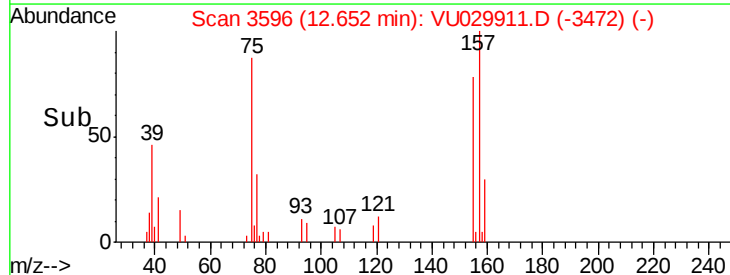
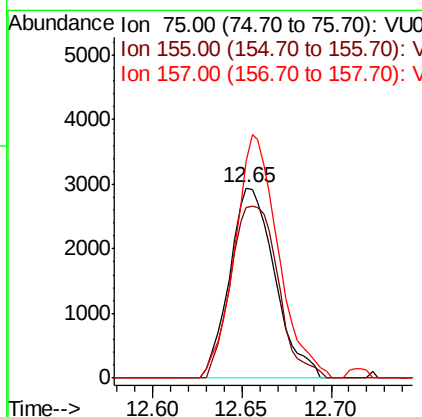
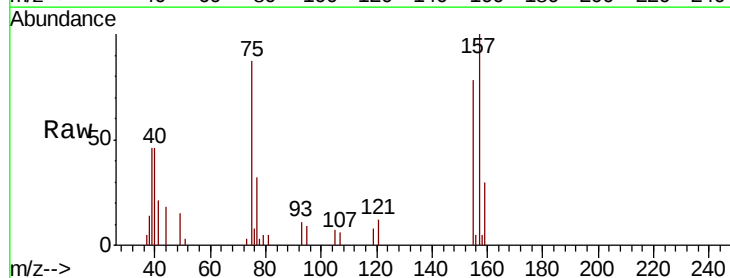
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00542

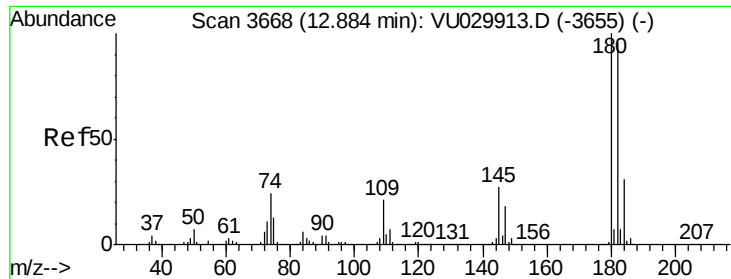
Tgt Ion: 146 Resp: 35153
 Ion Ratio Lower Upper
 146 100
 111 39.1 31.8 47.6
 148 64.5 51.0 76.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.257 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. -0.00 min
 Lab File: VU029911.D
 Acq: 09 Mar 2019 11:18

Tgt Ion: 75 Resp: 5195
 Ion Ratio Lower Upper
 75 100
 155 89.7 79.8 119.8
 157 114.4 98.8 148.2

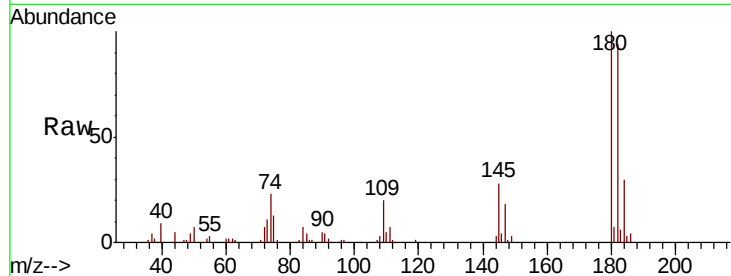




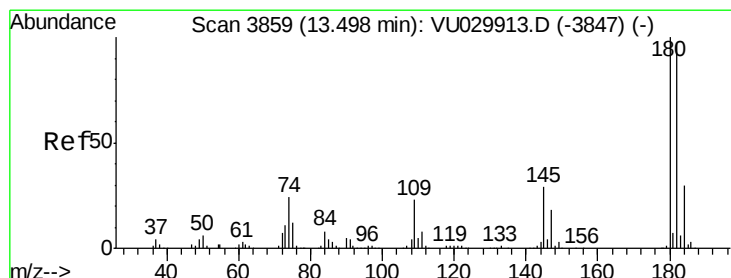
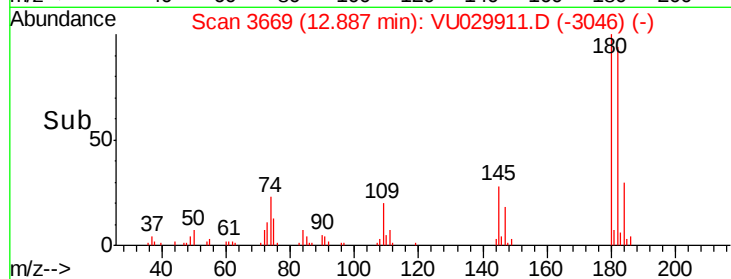
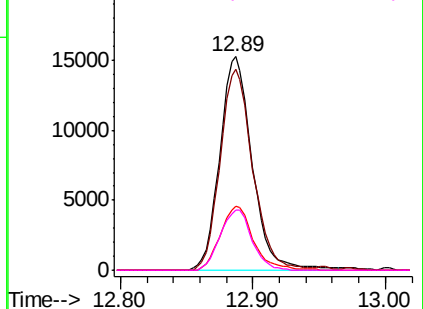
#67
 1,3,5-Trichlorobenzene
 Concen: 4.468 ug/L
 RT: 12.89 min Scan# 3669
 Delta R.T. 0.00 min
 Lab File: VU029911.D
 Acq: 09 Mar 2019 11:18

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00542

Tgt Ion:	180	Resp:	25907
Ion	Ratio	Lower	Upper
180	100		
182	94.1	76.7	115.1
184	30.1	24.2	36.4
145	27.5	22.0	33.0

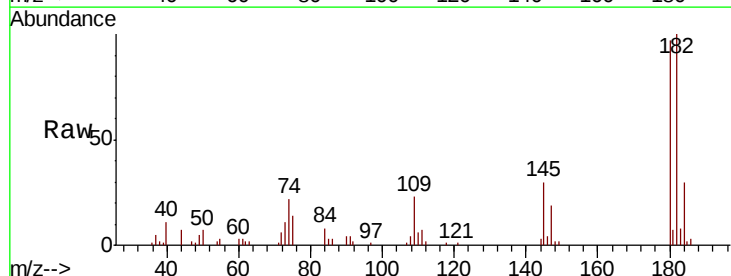


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

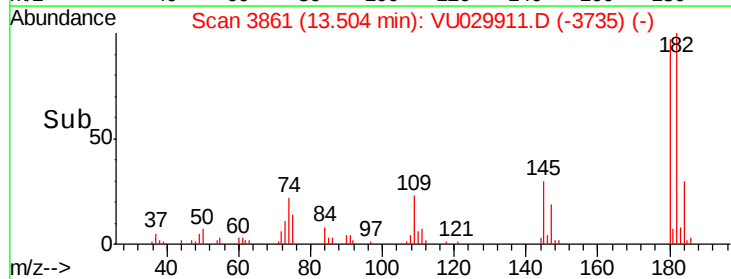
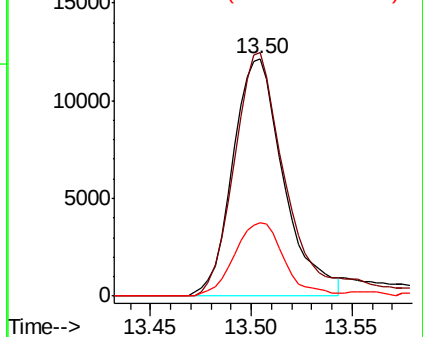


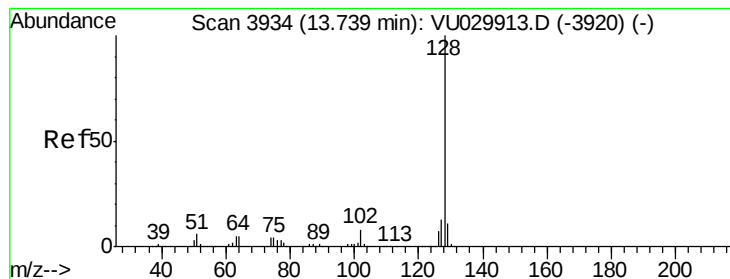
#68
 1,2,4-trichlorobenzene
 Concen: 4.258 ug/L
 RT: 13.50 min Scan# 3861
 Delta R.T. 0.01 min
 Lab File: VU029911.D
 Acq: 09 Mar 2019 11:18

Tgt Ion:	180	Resp:	21451
Ion	Ratio	Lower	Upper
180	100		
182	100.8	76.0	114.0
145	30.1	22.7	34.1



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





#69

Naphthalene

Concen: 4.605 ug/L

RT: 13.74 min Scan# 3935

Delta R.T. 0.00 min

Lab File: VU029911.D

Acq: 09 Mar 2019 11:18

Instrument :

MSVOA_U

ClientSampleId :

VSTD00542

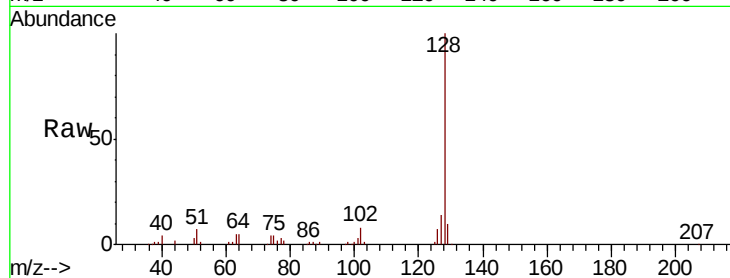
Tgt Ion:128 Resp: 70830

Ion Ratio Lower Upper

128 100

127 13.7 10.2 15.2

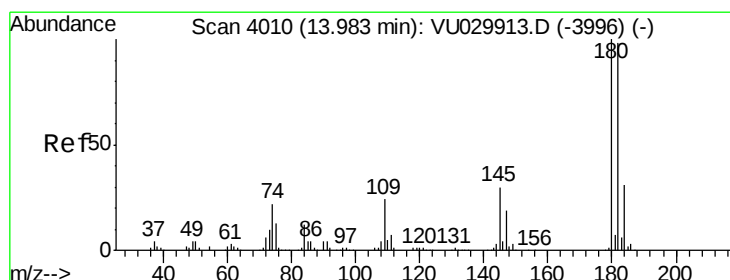
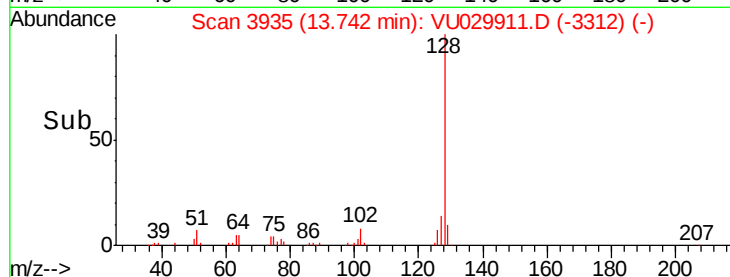
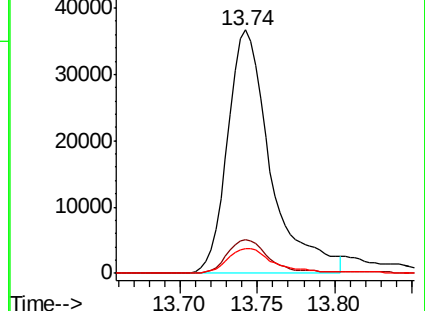
129 11.1 8.7 13.1



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: 4.685 ug/L

RT: 13.99 min Scan# 4011

Delta R.T. 0.00 min

Lab File: VU029911.D

Acq: 09 Mar 2019 11:18

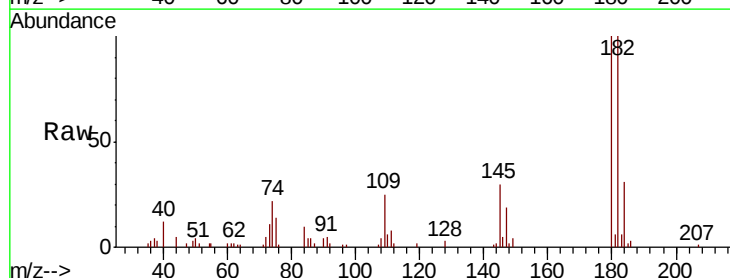
Tgt Ion:180 Resp: 25052

Ion Ratio Lower Upper

180 100

182 99.8 76.3 114.5

145 29.7 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

