

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111418\
 Data File : VU028110.D
 Acq On : 14 Nov 2018 10:04
 Operator : MD/SY
 Sample : VSTD0.544
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 15 04:06:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR111418WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Nov 15 04:03:54 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	237066	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	218802	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	99082	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	9681	0.49	ug/L	0.00
7) Chloroethane-d5	1.68	69	7623	0.49	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.28	63	18753	0.51	ug/L	0.00
20) 2-Butanone-d5	4.21	46	27083	4.75	ug/L	0.00
24) Chloroform-d	4.65	84	15322	0.49	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	9264	0.53	ug/L	0.00
32) Benzene-d6	5.34	84	30721	0.49	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.34	67	10856	0.48	ug/L	0.00
41) Toluene-d8	7.57	98	30028	0.51	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	3870	0.48	ug/L	0.00
46) 2-Hexanone-d5	8.32	63	21396	4.67	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	7633	0.48	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	9879	0.53	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	10859	0.519 ug/L	98
3) Chloromethane	1.33	50	13646	0.511 ug/L	100
5) Vinyl chloride	1.40	62	13084	0.515 ug/L	97
6) Bromomethane	1.63	94	5946	0.489 ug/L	92
8) Chloroethane	1.70	64	8403	0.550 ug/L	94
9) Trichlorofluoromethane	1.89	101	14307	0.517 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	8006	0.515 ug/L	95
12) 1,1-Dichloroethene	2.29	96	8458	0.537 ug/L	90
13) Acetone	2.35	43	21265	5.534 ug/L	99
14) Carbon disulfide	2.48	76	28675	0.543 ug/L	100
15) Methyl Acetate	2.63	43	5632	0.548 ug/L	98
16) Methylene chloride	2.70	84	10504	0.564 ug/L	97
17) Methyl tert-butyl Ether	3.01	73	22326	0.507 ug/L	98
18) trans-1,2-Dichloroethene	2.98	96	9013	0.538 ug/L	95
19) 1,1-Dichloroethane	3.45	63	18284	0.519 ug/L	95
21) 2-Butanone	4.29	43	29515	4.867 ug/L	99
22) cis-1,2-Dichloroethene	4.23	96	9343	0.506 ug/L	94
23) Bromochloromethane	4.55	128	3703	0.507 ug/L	95
25) Chloroform	4.67	83	15819	0.500 ug/L	100
27) 1,2-Dichloroethane	5.41	62	10428	0.502 ug/L	97
29) 1,1,1-Trichloroethane	4.92	97	12216	0.493 ug/L	99
30) Cyclohexane	4.99	56	17985	0.518 ug/L	98
31) Carbon tetrachloride	5.14	117	10334	0.503 ug/L	96
33) Benzene	5.39	78	37637	0.511 ug/L	100
34) Trichloroethene	6.19	95	9592	0.527 ug/L	96
35) Methylcyclohexane	6.41	83	16398	0.524 ug/L	97
37) 1,2-Dichloropropane	6.44	63	10462	0.513 ug/L	100
38) Bromodichloromethane	6.76	83	10778	0.497 ug/L	100
39) cis-1,3-Dichloropropene	7.27	75	13053	0.474 ug/L	100
40) 4-Methyl-2-pentanone	7.47	43	68531	4.882 ug/L	99

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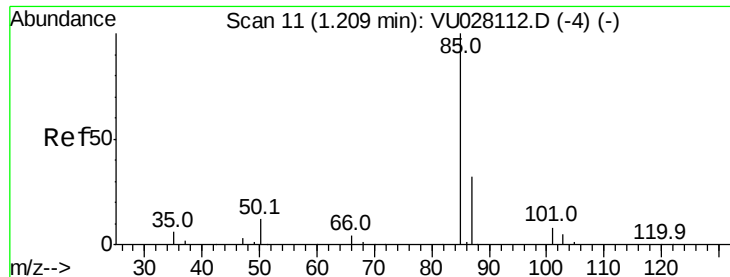
Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 15 04:06:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR111418WMA.M
 Quant Title : TRACE VOA SOM01.0
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

42) Toluene	7.64	91	38265	0.503	ug/L	98
44) trans-1,3-Dichloropropene	7.88	75	10452	0.484	ug/L	95
45) 1,1,2-Trichloroethane	8.07	97	6430	0.522	ug/L	98
47) Tetrachloroethene	8.23	164	9458	0.639	ug/L	93
48) 2-Hexanone	8.37	43	48416	4.847	ug/L	100
49) Dibromochloromethane	8.48	129	6227	0.475	ug/L	99
50) 1,2-Dibromoethane	8.59	107	5772	0.498	ug/L #	97
51) Chlorobenzene	9.12	112	22432	0.505	ug/L	99
52) Ethylbenzene	9.25	91	41423	0.499	ug/L	100
53) m,p-xylene	9.38	106	15208	0.503	ug/L	95
54) o-xylene	9.78	106	14274	0.491	ug/L	89
55) Styrene	9.79	104	23615	0.480	ug/L	99
56) Isopropylbenzene	10.17	105	39176	0.498	ug/L	97
58) 1,1,2,2-Tetrachloroethane	10.46	83	8050	0.507	ug/L #	91
59) 1,2,3-Trichloropropane	10.49	75	5941	0.519	ug/L	96
61) Bromoform	9.96	173	3543	0.529	ug/L #	85
62) 1,3-Dichlorobenzene	11.42	146	16032	0.512	ug/L	96
63) 1,4-Dichlorobenzene	11.51	146	16610	0.524	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	15699	0.524	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.66	75	1014	0.466	ug/L	90
67) 1,3,5-Trichlorobenzene	12.89	180	12172	0.506	ug/L	97
68) 1,2,4-trichlorobenzene	13.50	180	10404	0.497	ug/L	95
69) Naphthalene	13.75	128	19090	0.489	ug/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	9357	0.485	ug/L	97

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



#2

Dichlorodifluoromethane

Concen: 0.519 ug/L

RT: 1.21 min Scan# 11

Delta R.T. -0.00 min

Lab File: VU028110.D

Acq: 14 Nov 2018 10:04

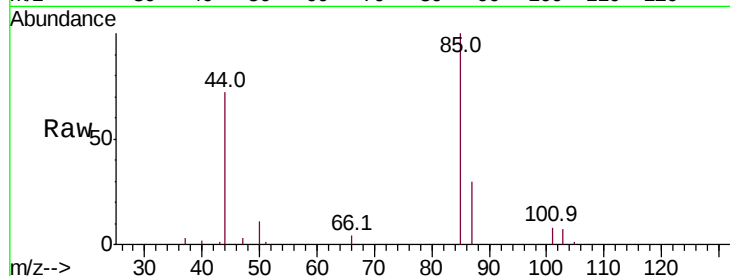
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 85 Resp: 10859

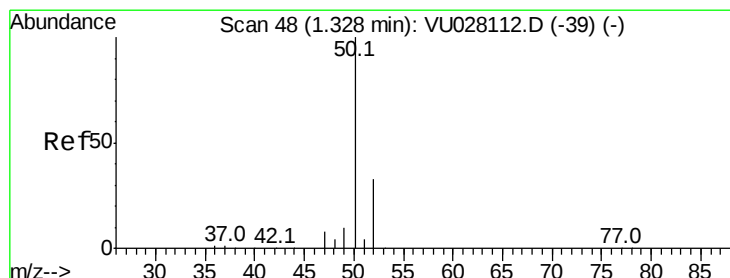
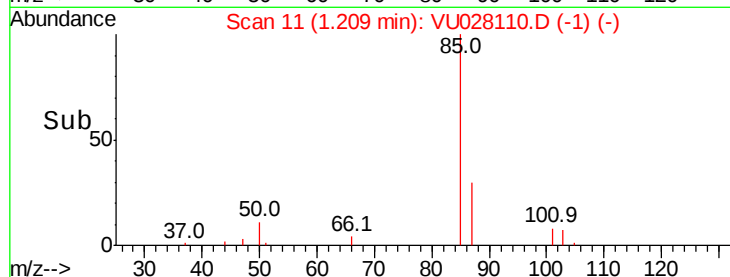
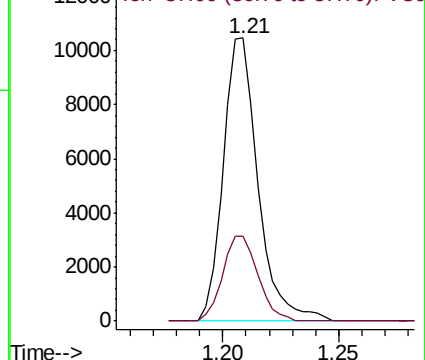
Ion Ratio Lower Upper

85 100

87 30.6 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VU0
Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 0.511 ug/L

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028110.D

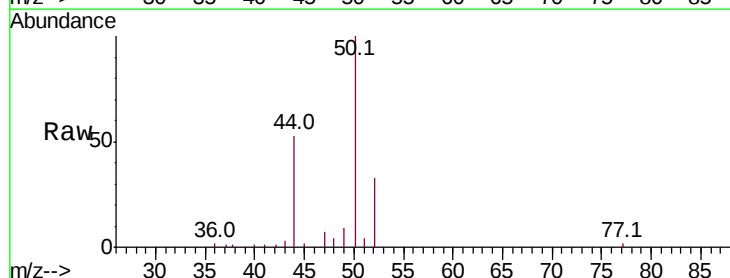
Acq: 14 Nov 2018 10:04

Tgt Ion: 50 Resp: 13646

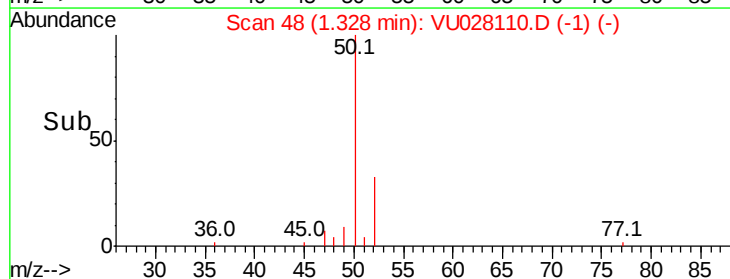
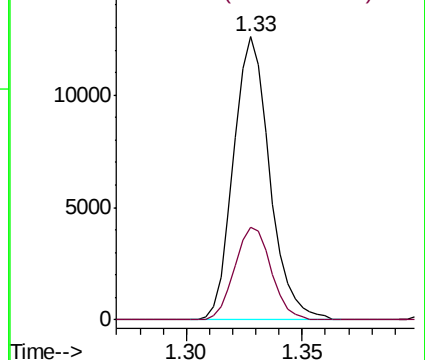
Ion Ratio Lower Upper

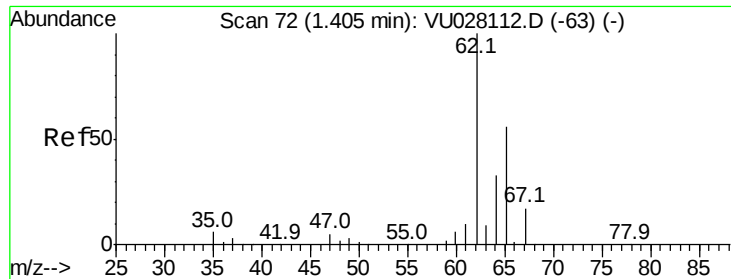
50 100

52 32.9 23.0 42.6



Abundance Ion 50.05 (49.75 to 50.75): VU0
Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 0.515 ug/L

RT: 1.40 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU028110.D

Acq: 14 Nov 2018 10:04

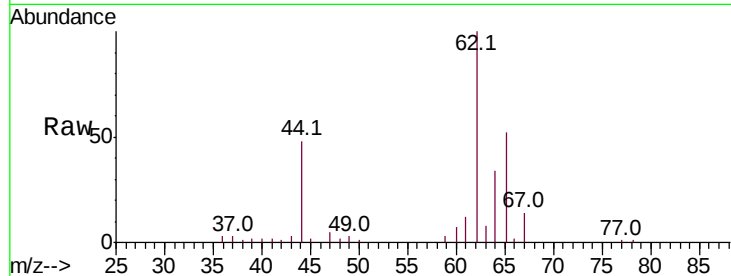
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 62 Resp: 13084

Ion Ratio Lower Upper

62 100

64 34.2 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0

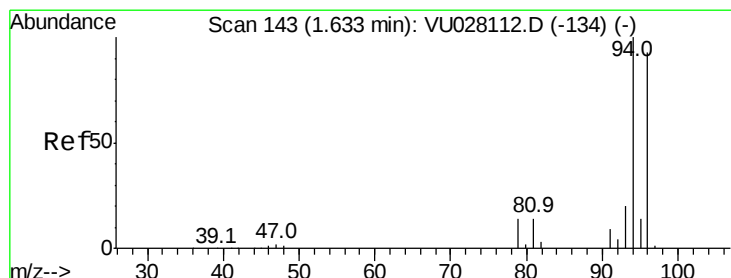
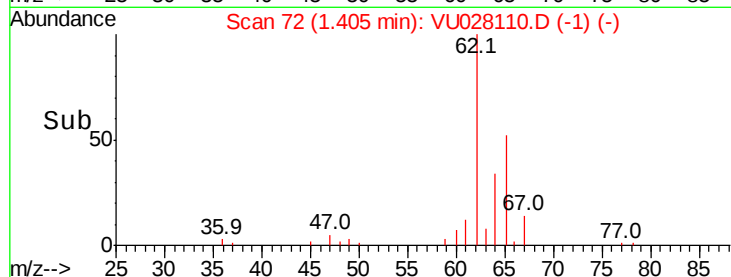
1.40

10000

5000

0

Time--> 1.35 1.40 1.45



#6

Bromomethane

Concen: 0.489 ug/L

RT: 1.63 min Scan# 143

Delta R.T. -0.00 min

Lab File: VU028110.D

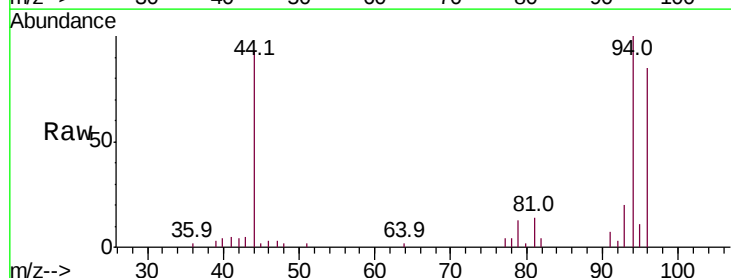
Acq: 14 Nov 2018 10:04

Tgt Ion: 94 Resp: 5946

Ion Ratio Lower Upper

94 100

96 85.4 65.1 120.9



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

1.63

6000

5000

4000

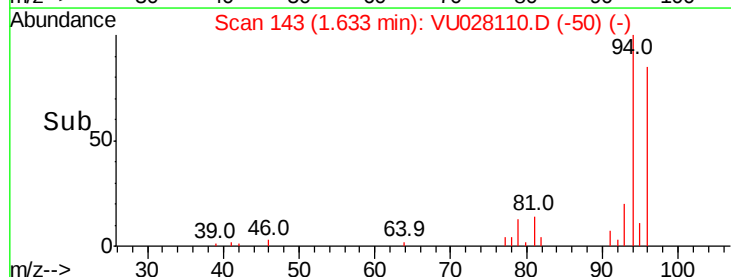
3000

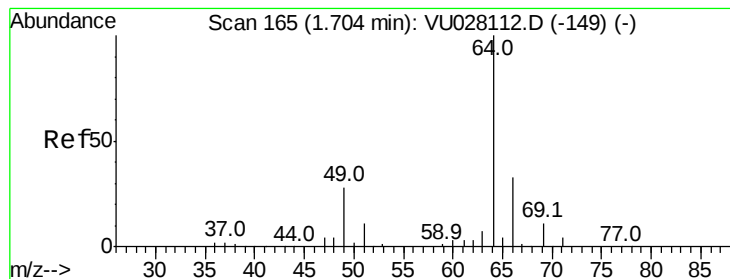
2000

1000

0

Time--> 1.60 1.65





#8

Chloroethane

Concen: 0.550 ug/L

RT: 1.70 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU028110.D

Acq: 14 Nov 2018 10:04

Instrument :

MSVOA_U

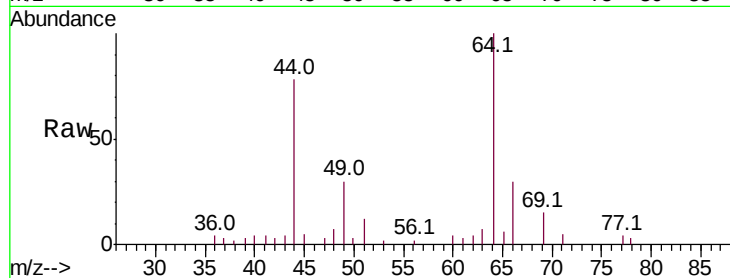
ClientSampleId :

Tot Ion: 64 Resp: 8403

Ion Ratio Lower Upper

64 100

66 29.6 23.1 42.9



Abundance Ion 64.10 (63.80 to 64.80): VU028110.D (-149) (-)

Ion 66.05 (65.75 to 66.75): VU028110.D (-149) (-)

1.70

6000

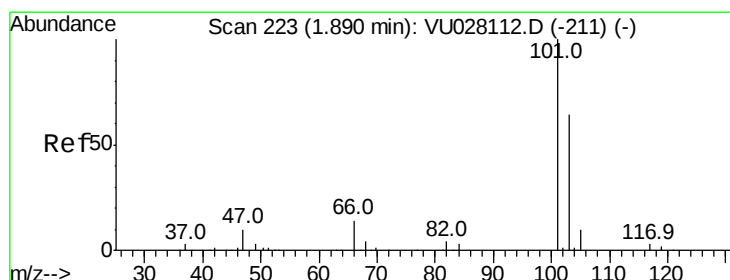
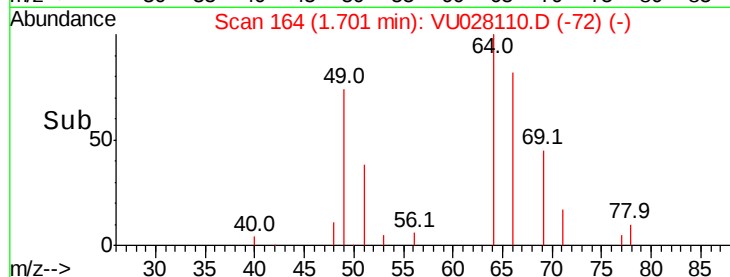
4000

2000

0

1.65 1.70 1.75

Time-->



#9

Trichlorofluoromethane

Concen: 0.517 ug/L

RT: 1.89 min Scan# 223

Delta R.T. -0.00 min

Lab File: VU028110.D

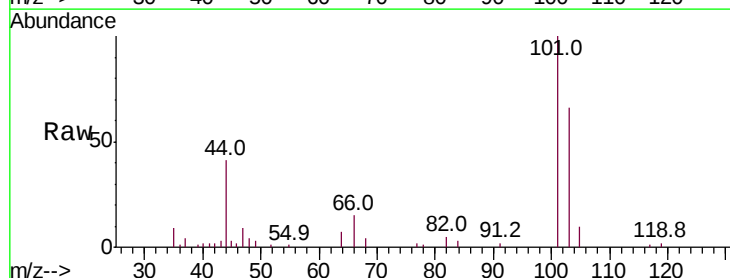
Acq: 14 Nov 2018 10:04

Tgt Ion:101 Resp: 14307

Ion Ratio Lower Upper

101 100

103 62.6 51.2 76.8



Abundance Ion 101.00 (100.70 to 101.70): VU028110.D (-211) (-)

Ion 103.00 (102.70 to 103.70): VU028110.D (-211) (-)

1.89

12000

10000

8000

6000

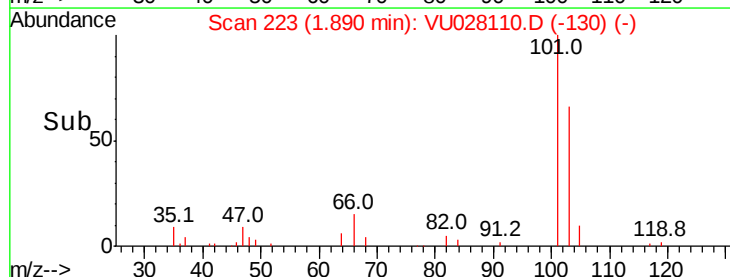
4000

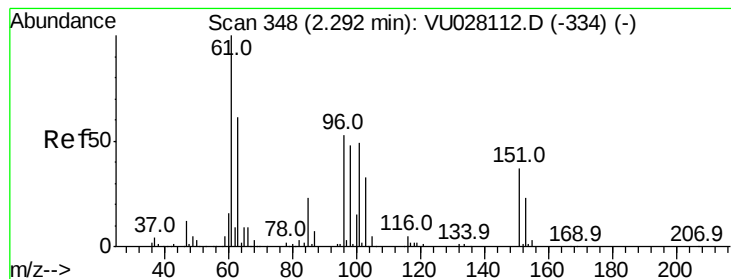
2000

0

1.85 1.90 1.95

Time-->





#10

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

Concen: 0.515 ug/L

RT: 2.29 min Scan# 348

Delta R.T. -0.00 min

Lab File: VU028110.D

Acq: 14 Nov 2018 10:04

Instrument :

MSVOA_U

ClientSampled :

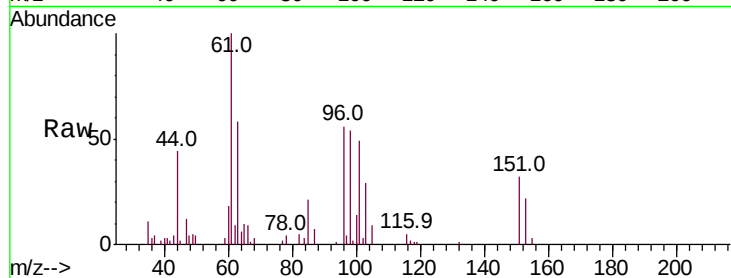
Tot Ion:101 Resp: 8006

Ion Ratio Lower Upper

101 100

85 44.0 37.6 56.4

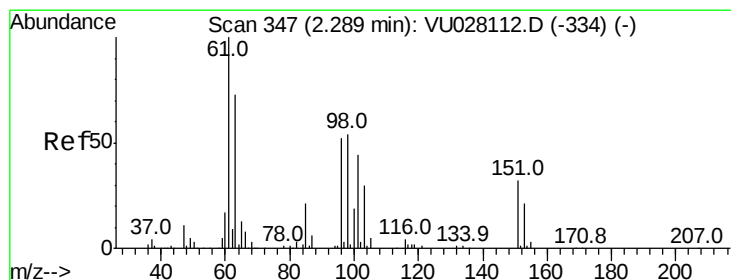
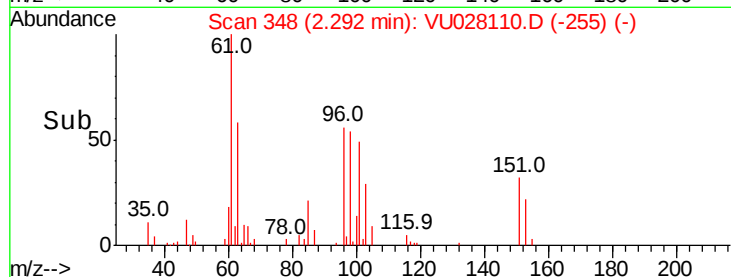
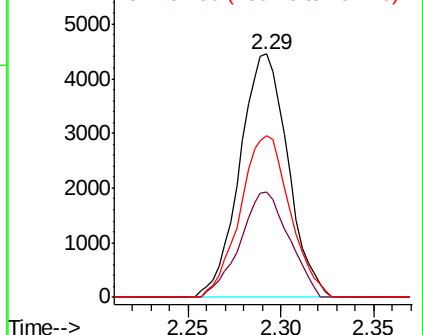
151 68.7 58.2 87.2



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: 0.537 ug/L

RT: 2.29 min Scan# 347

Delta R.T. -0.00 min

Lab File: VU028110.D

Acq: 14 Nov 2018 10:04

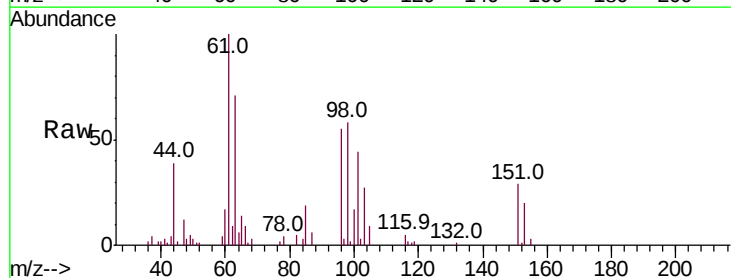
Tgt Ion: 96 Resp: 8458

Ion Ratio Lower Upper

96 100

61 180.9 134.8 250.3

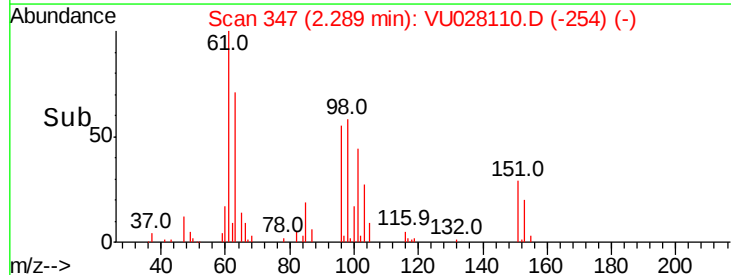
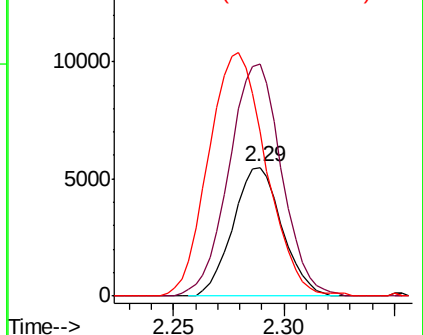
63 127.8 100.1 185.9

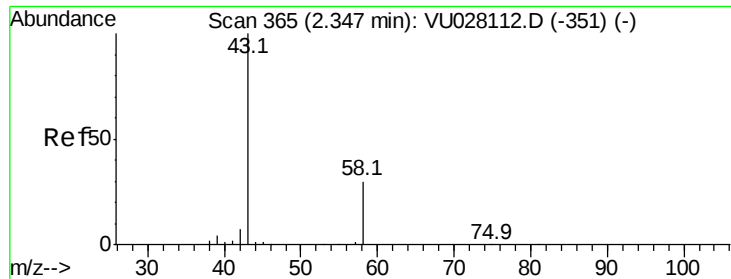


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 5.534 ug/L

RT: 2.35 min Scan# 366

Delta R.T. 0.00 min

Lab File: VU028110.D

Acq: 14 Nov 2018 10:04

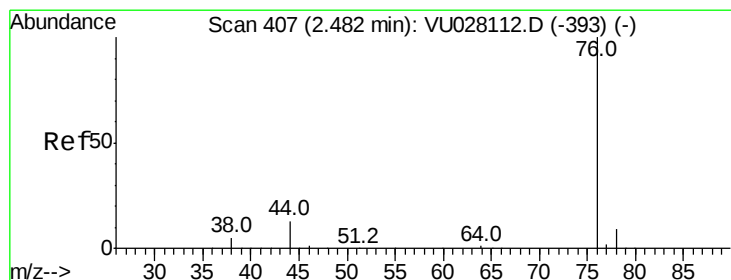
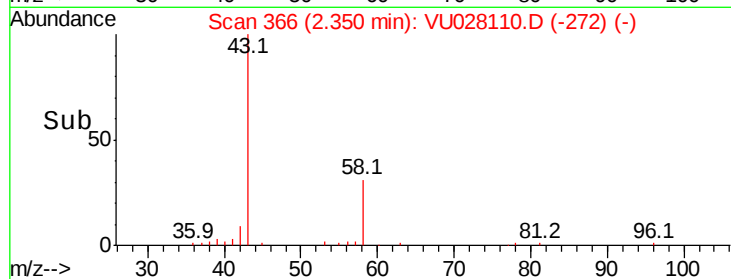
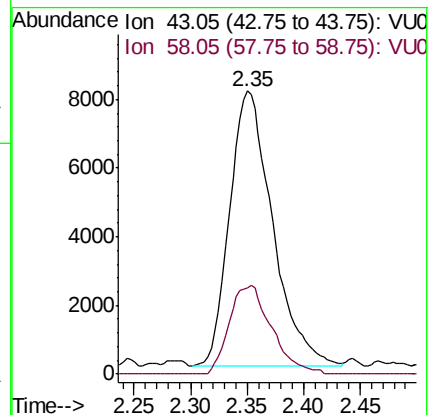
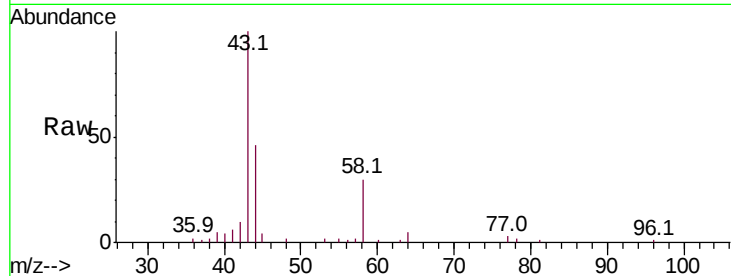
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 21265

Ion Ratio Lower Upper

43 100

58 31.5 0.0 61.6



#14

Carbon disulfide

Concen: 0.543 ug/L

RT: 2.48 min Scan# 406

Delta R.T. -0.00 min

Lab File: VU028110.D

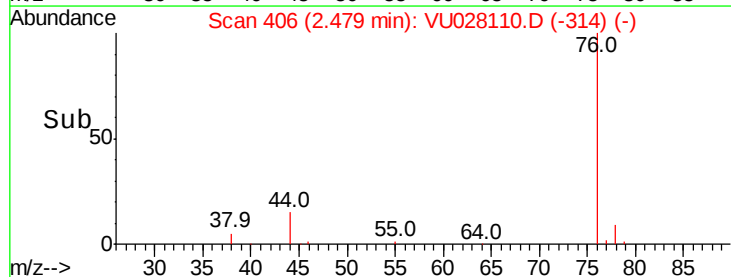
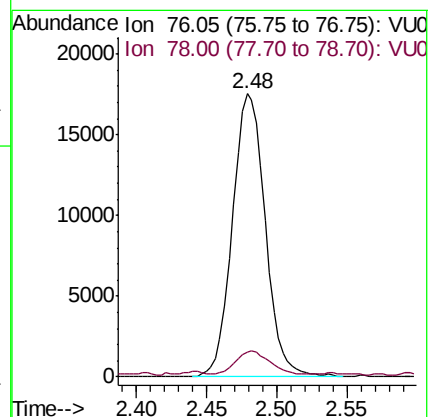
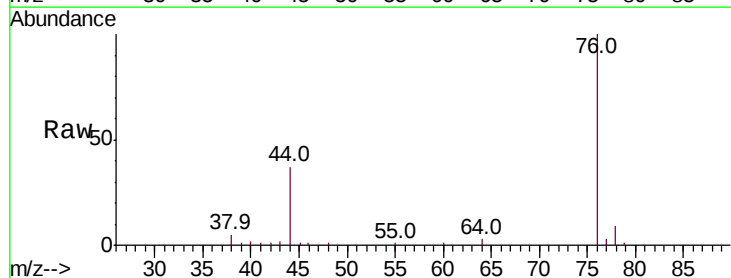
Acq: 14 Nov 2018 10:04

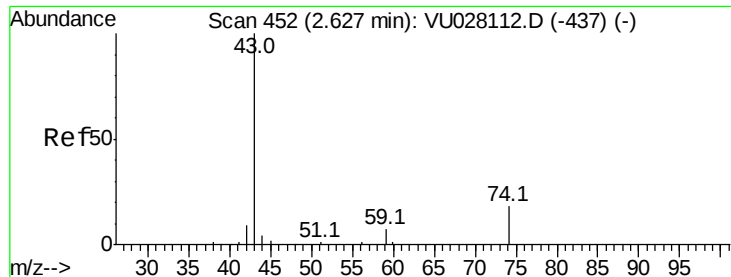
Tgt Ion: 76 Resp: 28675

Ion Ratio Lower Upper

76 100

78 8.7 7.0 10.4





#15

Methyl Acetate

Concen: 0.548 ug/L

RT: 2.63 min Scan# 453

Delta R.T. 0.00 min

Lab File: VU028110.D

Acq: 14 Nov 2018 10:04

Instrument :

MSVOA_U

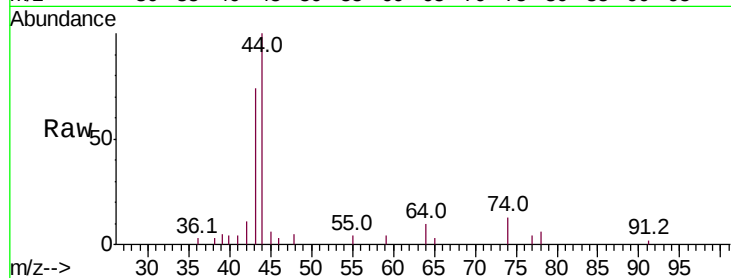
ClientSampleId :

Tot Ion: 43 Resp: 5632

Ion Ratio Lower Upper

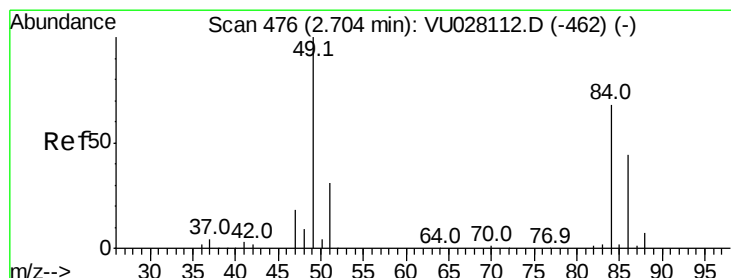
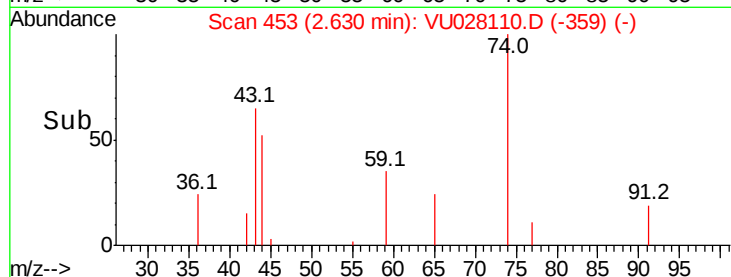
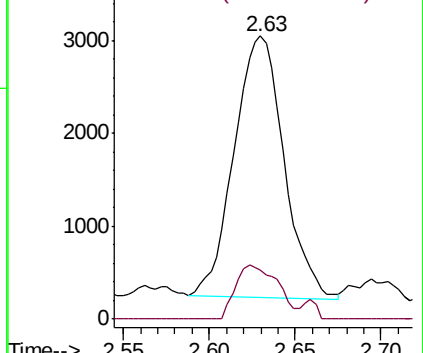
43 100

74 17.8 14.9 22.3



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0



#16

Methylene chloride

Concen: 0.564 ug/L

RT: 2.70 min Scan# 476

Delta R.T. -0.00 min

Lab File: VU028110.D

Acq: 14 Nov 2018 10:04

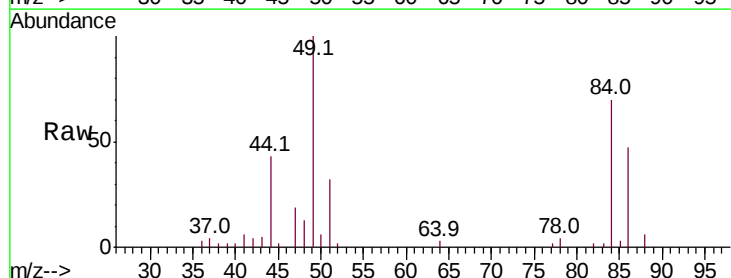
Tgt Ion: 84 Resp: 10504

Ion Ratio Lower Upper

84 100

86 67.0 44.6 82.8

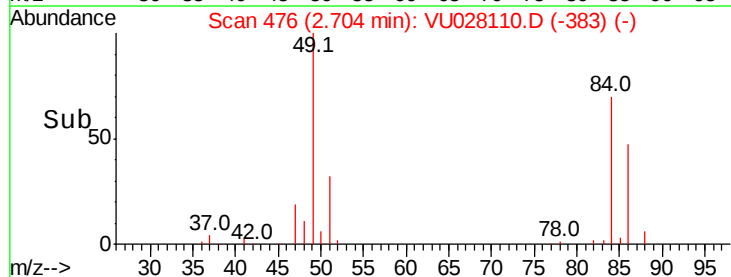
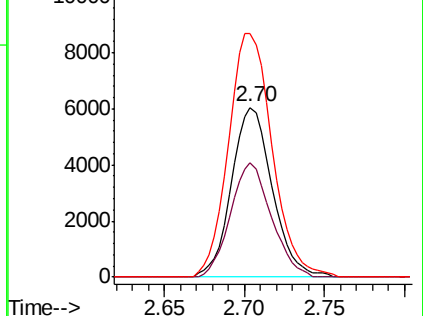
49 143.3 102.5 190.3

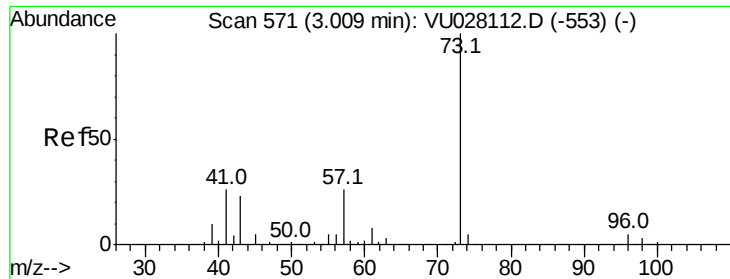


Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0

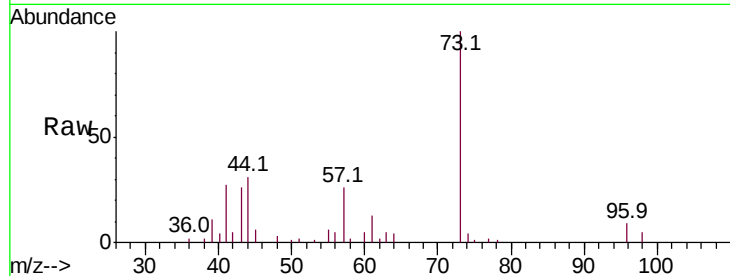




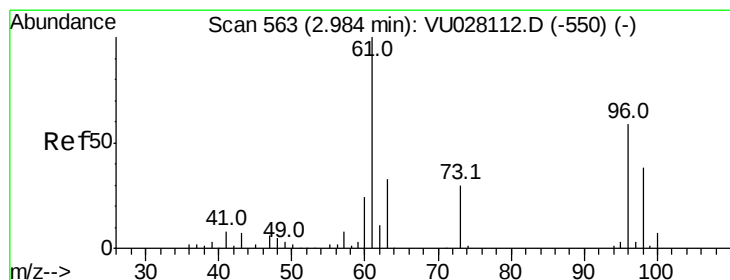
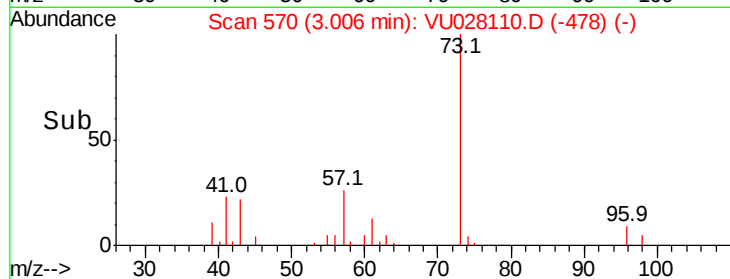
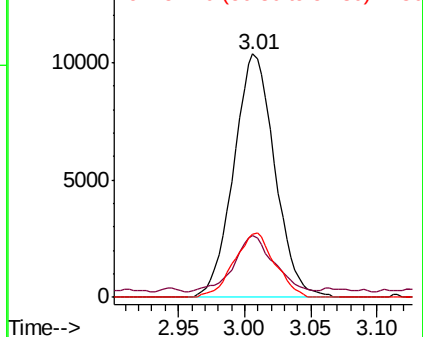
#17
Methvl tert-butvl Ether
Concen: 0.507 ug/L
RT: 3.01 min Scan# 570
Delta R.T. -0.00 min
Lab File: VU028110.D
Acq: 14 Nov 2018 10:04

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 73 Resp: 22326
Ion Ratio Lower Upper
73 100
43 22.8 18.1 27.1
57 26.2 20.0 30.0

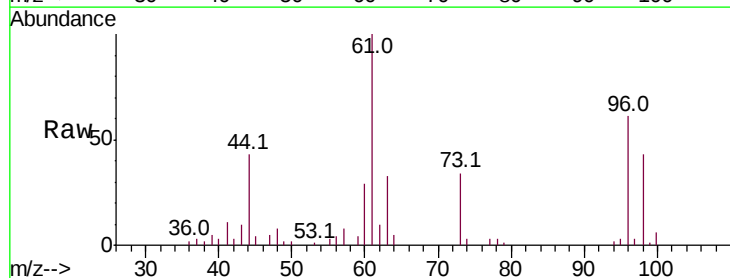


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

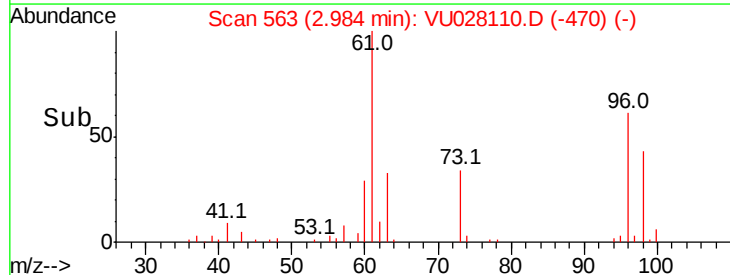
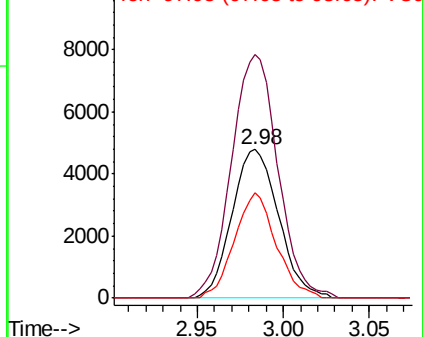


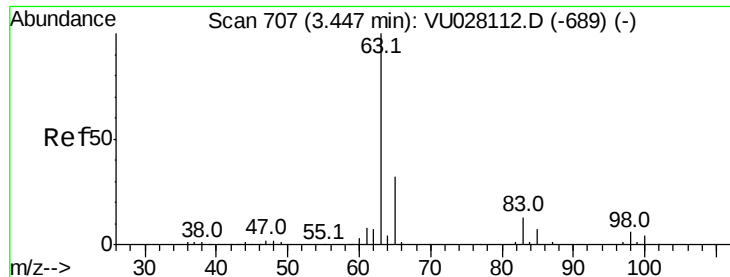
#18
trans-1,2-Dichloroethene
Concen: 0.538 ug/L
RT: 2.98 min Scan# 563
Delta R.T. -0.00 min
Lab File: VU028110.D
Acq: 14 Nov 2018 10:04

Tgt Ion: 96 Resp: 9013
Ion Ratio Lower Upper
96 100
61 163.9 118.5 220.1
98 70.5 44.9 83.5



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

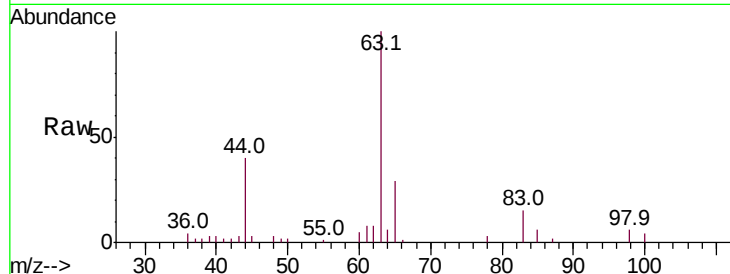




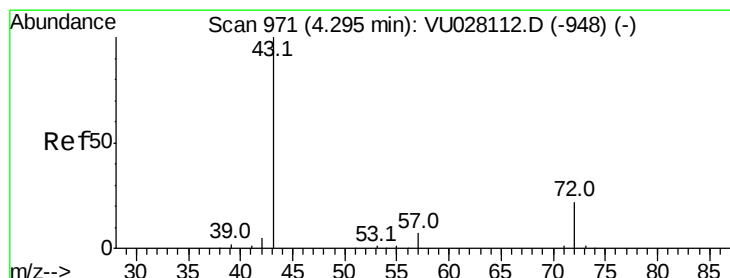
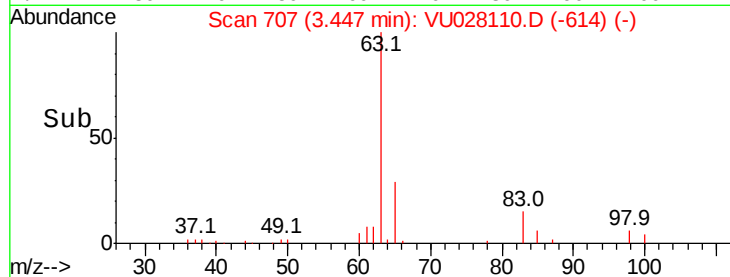
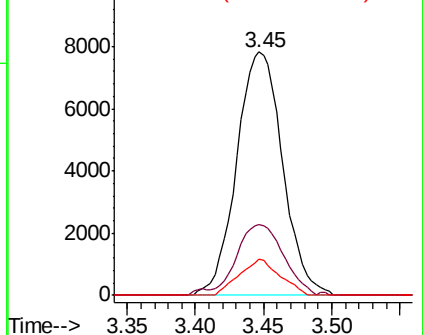
#19
 1,1-Dichloroethane
 Concen: 0.519 ug/L
 RT: 3.45 min Scan# 707
 Delta R.T. -0.00 min
 Lab File: VU028110.D
 Acq: 14 Nov 2018 10:04

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 63 Resp: 18284
 Ion Ratio Lower Upper
 63 100
 65 28.9 22.2 41.2
 83 15.0 8.9 16.5

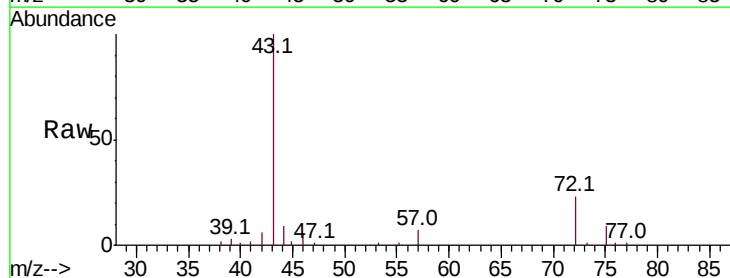


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

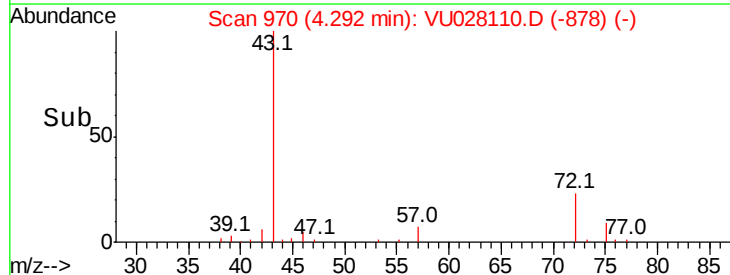
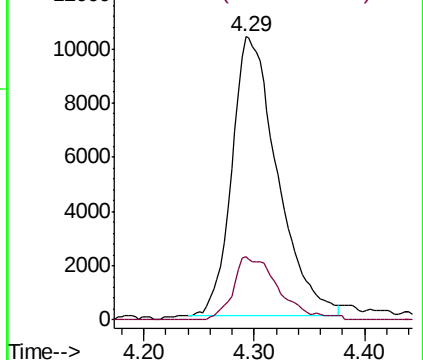


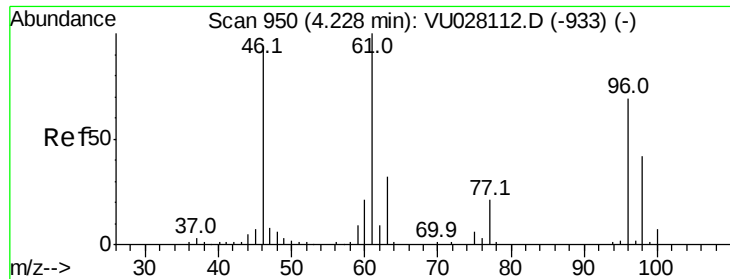
#21
 2-Butanone
 Concen: 4.867 ug/L
 RT: 4.29 min Scan# 970
 Delta R.T. -0.00 min
 Lab File: VU028110.D
 Acq: 14 Nov 2018 10:04

Tgt Ion: 43 Resp: 29515
 Ion Ratio Lower Upper
 43 100
 72 21.7 11.0 33.0



Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 72.10 (71.80 to 72.80): VU0



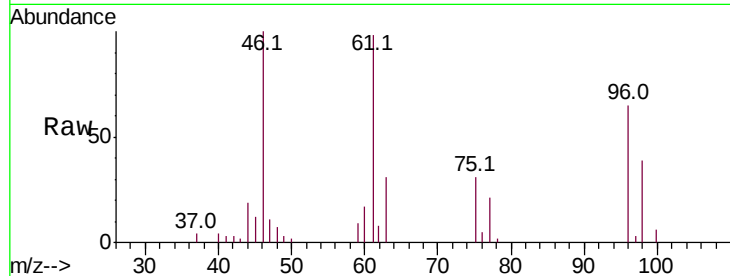


#22

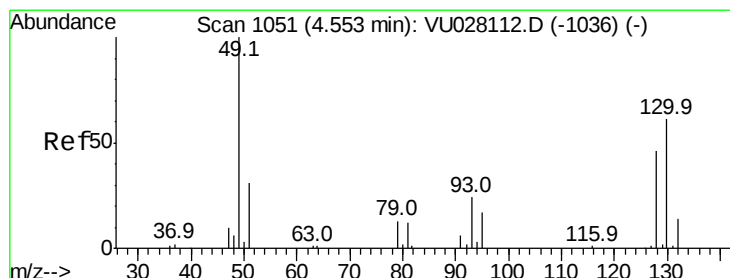
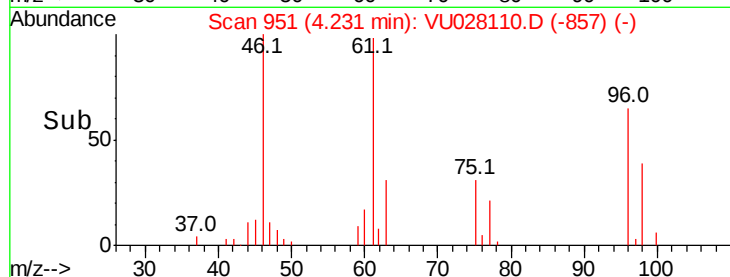
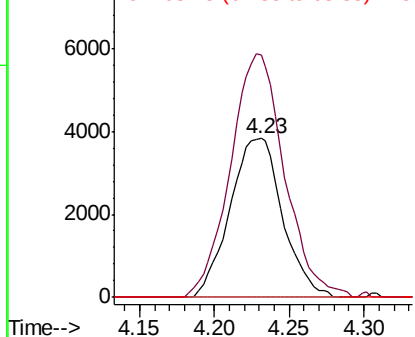
cis-1,2-Dichloroethene
Concen: 0.506 ug/L
RT: 4.23 min Scan# 951
Delta R.T. 0.00 min
Lab File: VU028110.D
Acq: 14 Nov 2018 10:04

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 96 Resp: 9343
Ion Ratio Lower Upper
96 100
61 152.3 101.8 189.0
68 0.0 0.0 0.0



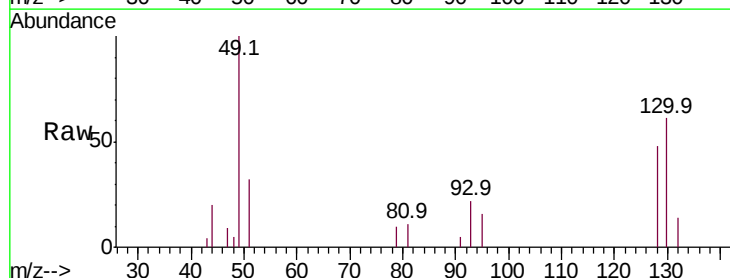
Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



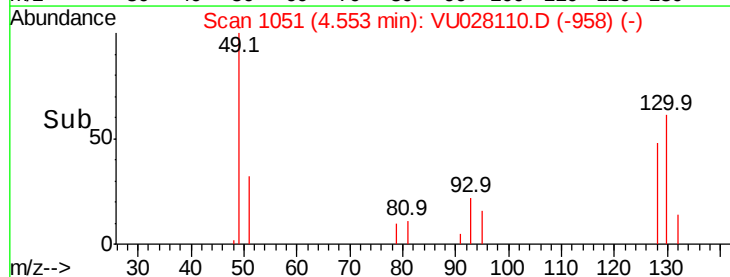
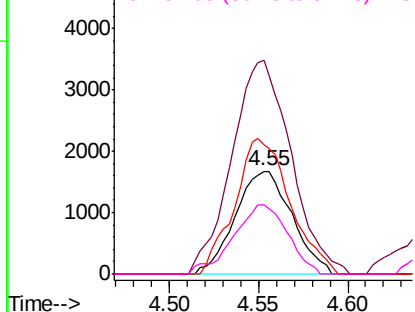
#23

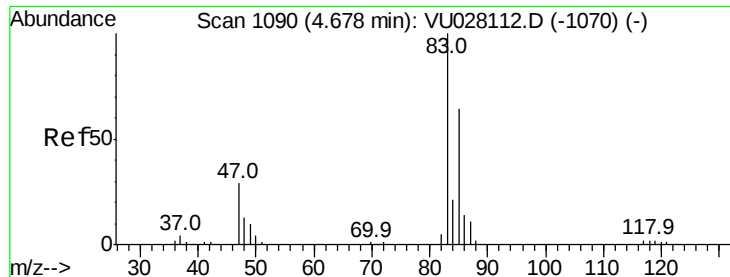
Bromochloromethane
Concen: 0.507 ug/L
RT: 4.55 min Scan# 1051
Delta R.T. -0.00 min
Lab File: VU028110.D
Acq: 14 Nov 2018 10:04

Tgt Ion:128 Resp: 3703
Ion Ratio Lower Upper
128 100
49 207.6 152.2 282.6
130 125.8 93.2 173.0
51 67.1 53.5 80.3



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: 0.500 ug/L

RT: 4.67 min Scan# 1089

Delta R.T. -0.00 min

Lab File: VU028110.D

Acq: 14 Nov 2018 10:04

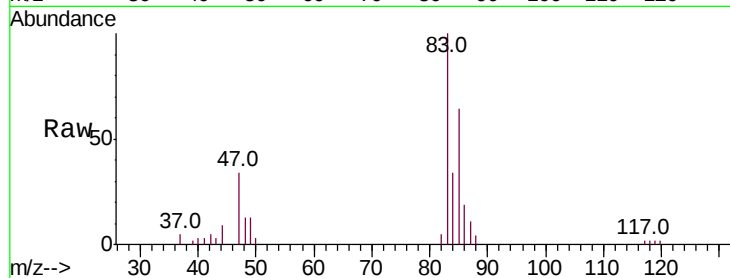
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 83 Resp: 15819

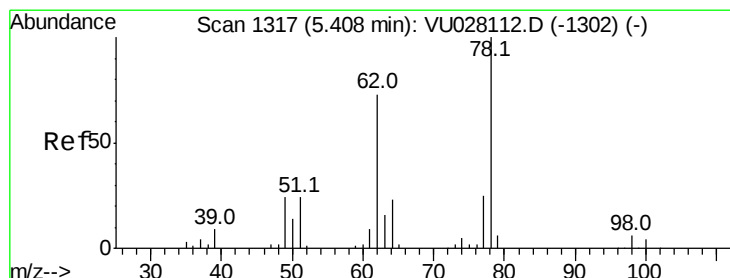
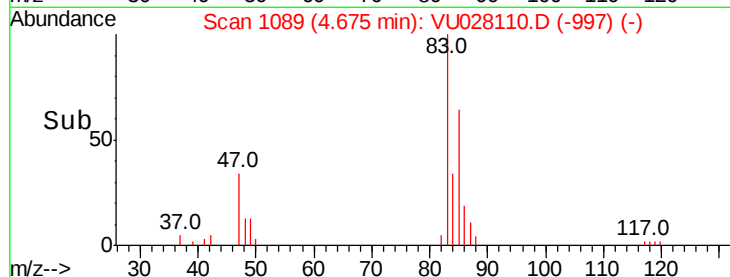
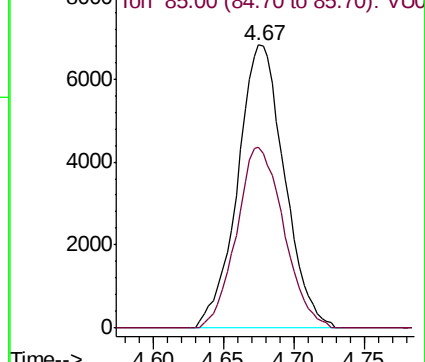
Ion Ratio Lower Upper

83 100

85 64.1 45.0 83.6



Abundance Ion 83.05 (82.75 to 83.75): VU028110.D (-997) (-)



#27

1,2-Dichloroethane

Concen: 0.502 ug/L

RT: 5.41 min Scan# 1317

Delta R.T. -0.00 min

Lab File: VU028110.D

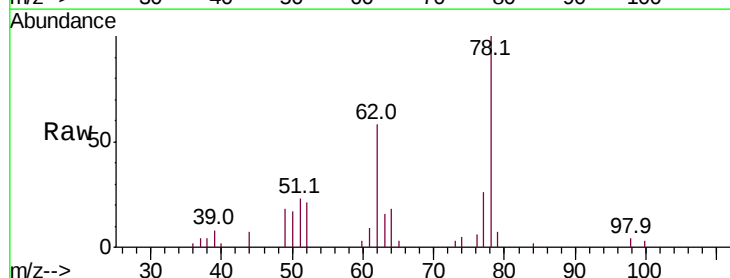
Acq: 14 Nov 2018 10:04

Tgt Ion: 62 Resp: 10428

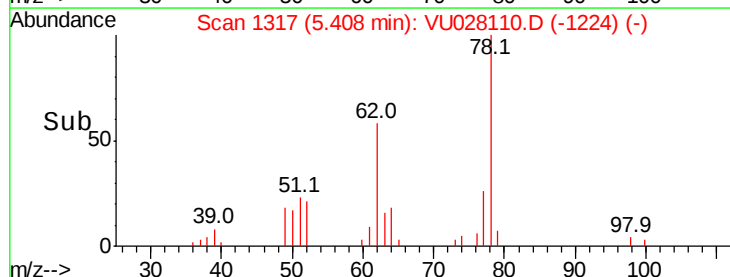
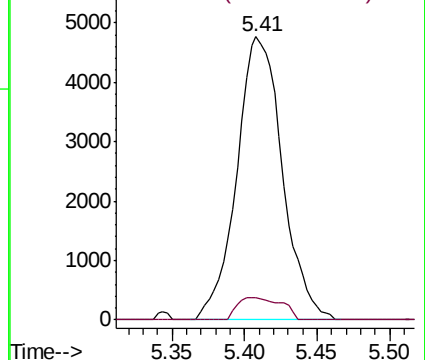
Ion Ratio Lower Upper

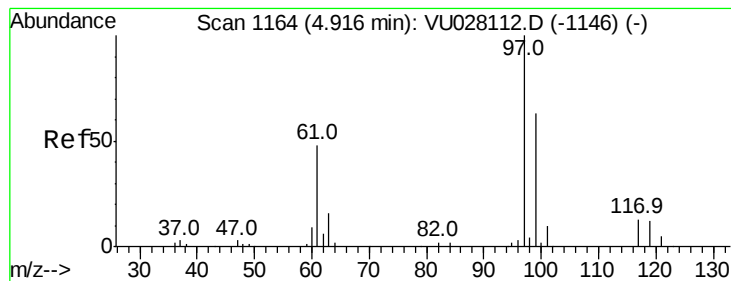
62 100

98 7.7 7.0 10.4



Abundance Ion 62.00 (61.70 to 62.70): VU028110.D (-1224) (-)





#29

1,1,1-Trichloroethane

Concen: 0.493 ug/L

RT: 4.92 min Scan# 1164

Delta R.T. -0.00 min

Lab File: VU028110.D

Acq: 14 Nov 2018 10:04

Instrument :

MSVOA_U

ClientSampled :

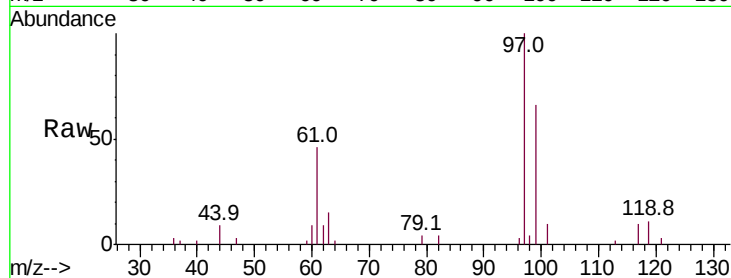
Tot Ion: 97 Resp: 12216

Ion Ratio Lower Upper

97 100

99 65.3 51.2 76.8

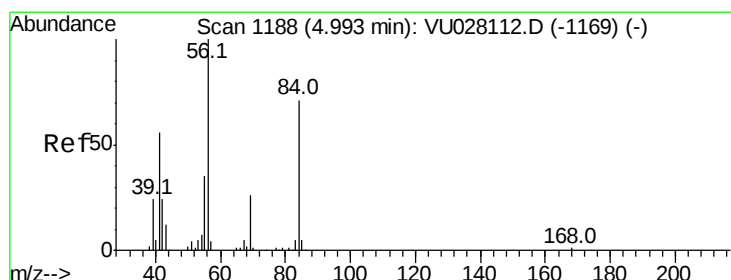
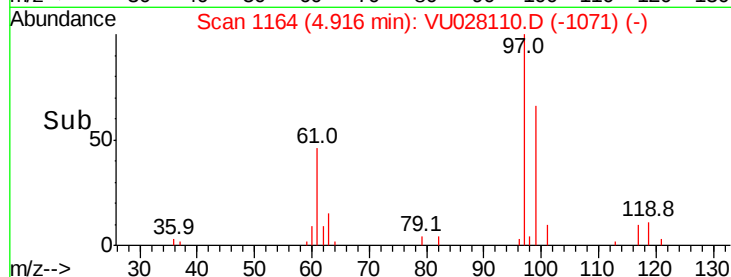
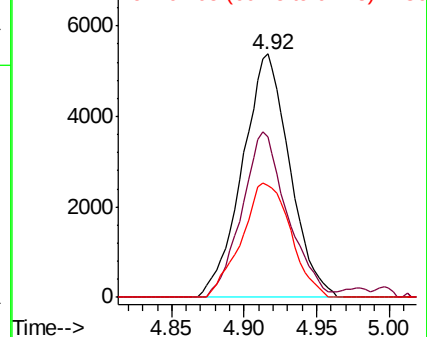
61 48.5 39.4 59.2



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: 0.518 ug/L

RT: 4.99 min Scan# 1187

Delta R.T. -0.00 min

Lab File: VU028110.D

Acq: 14 Nov 2018 10:04

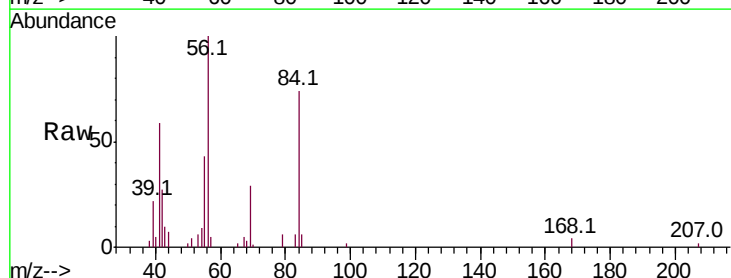
Tgt Ion: 56 Resp: 17985

Ion Ratio Lower Upper

56 100

69 28.2 22.6 33.8

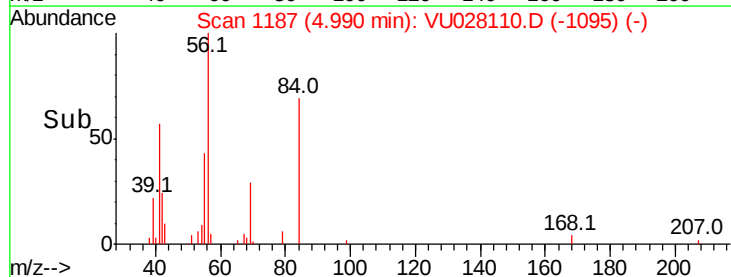
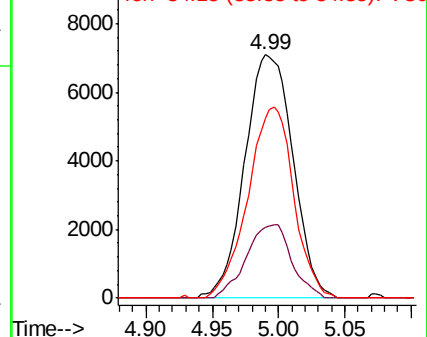
84 74.7 57.7 86.5

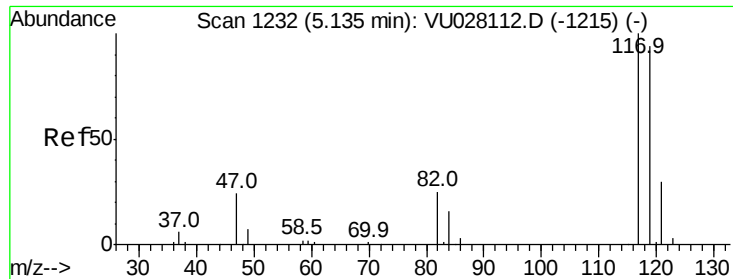


Abundance Ion 56.10 (55.80 to 56.80): VU0

Ion 69.15 (68.85 to 69.85): VU0

Ion 84.15 (83.85 to 84.85): VU0

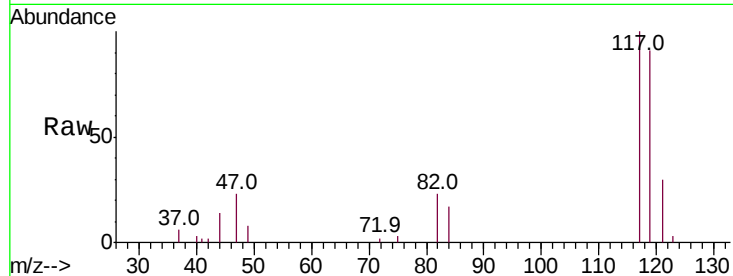




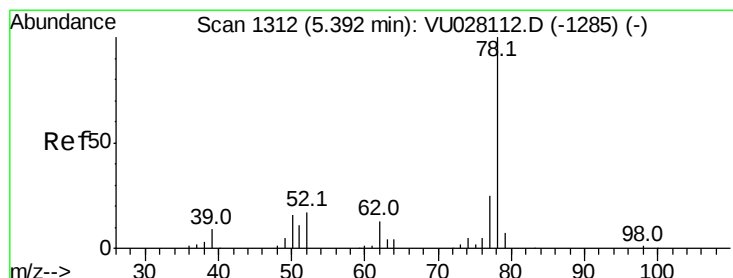
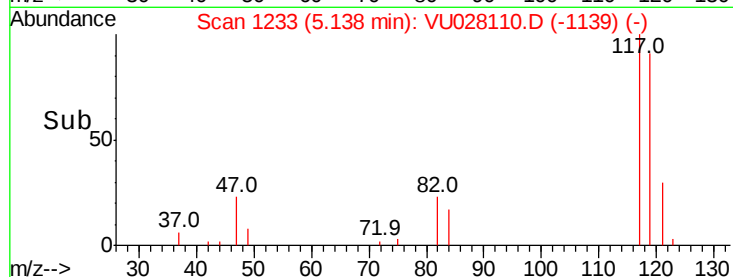
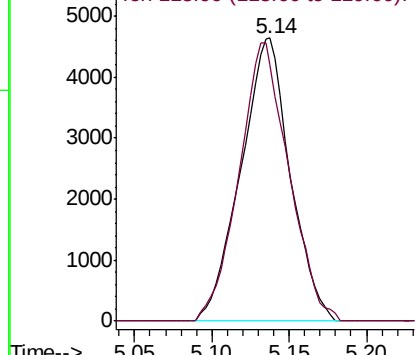
#31
Carbon tetrachloride
Concen: 0.503 ug/L
RT: 5.14 min Scan# 1233
Delta R.T. 0.00 min
Lab File: VU028110.D
Acq: 14 Nov 2018 10:04

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:117 Resp: 10334
Ion Ratio Lower Upper
117 100
119 98.9 75.7 113.5

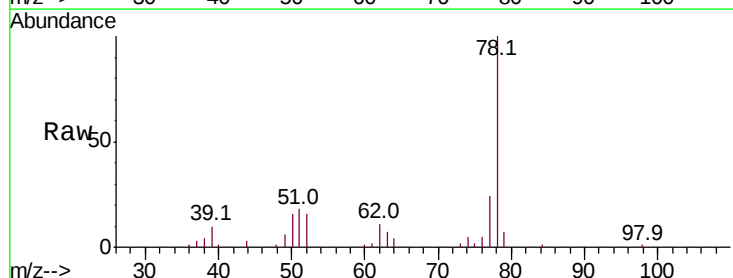


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 118.90 (118.60 to 119.60): V

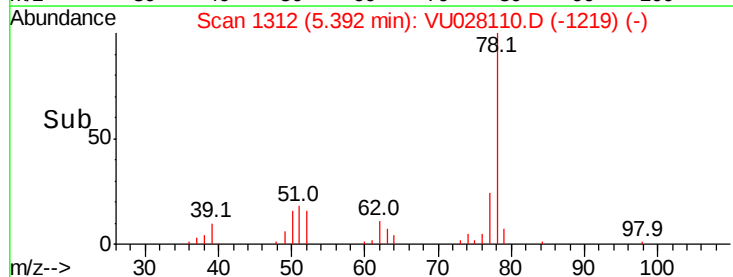
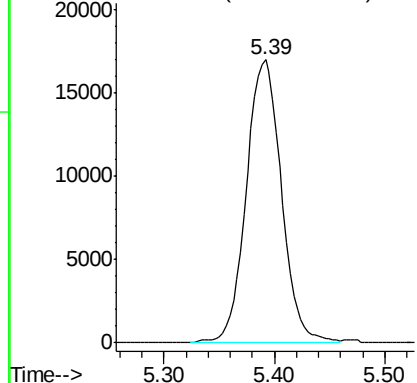


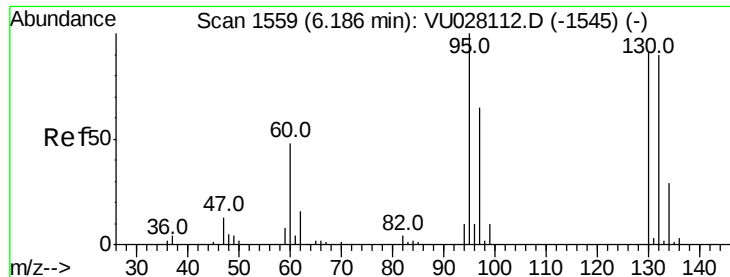
#33
Benzene
Concen: 0.511 ug/L
RT: 5.39 min Scan# 1312
Delta R.T. -0.00 min
Lab File: VU028110.D
Acq: 14 Nov 2018 10:04

Tgt Ion: 78 Resp: 37637



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 0.527 ug/L

RT: 6.19 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VU028110.D

Acq: 14 Nov 2018 10:04

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 9592

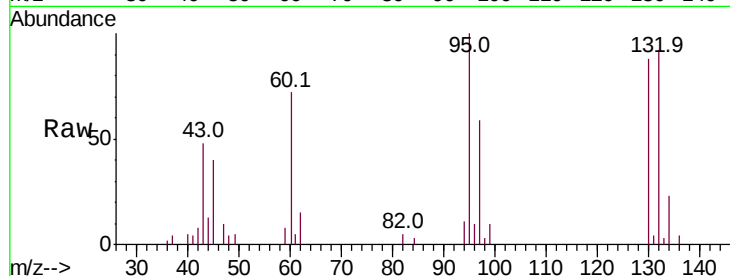
Ion Ratio Lower Upper

95 100

97 58.8 45.3 84.1

132 92.3 63.0 117.0

130 88.0 63.6 118.2

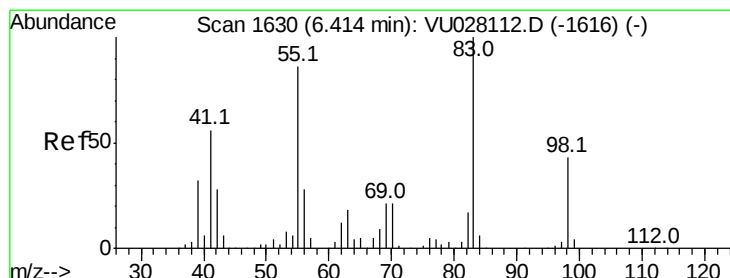
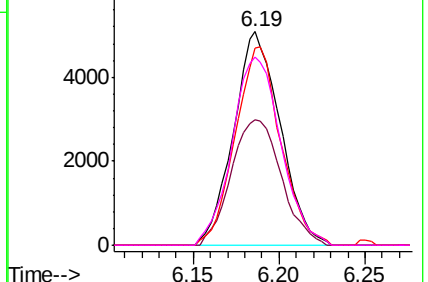
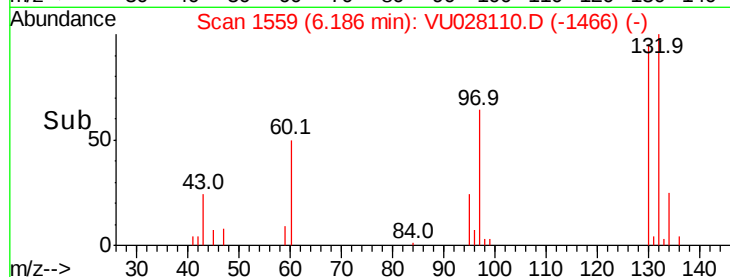


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 0.524 ug/L

RT: 6.41 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VU028110.D

Acq: 14 Nov 2018 10:04

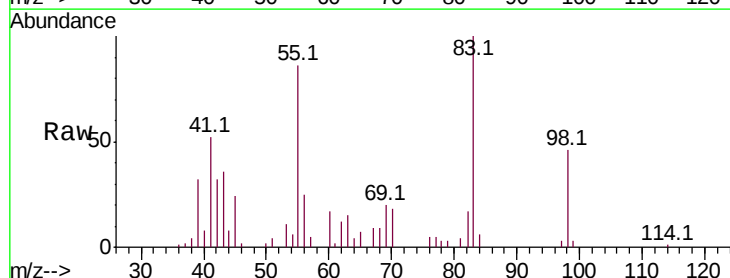
Tgt Ion: 83 Resp: 16398

Ion Ratio Lower Upper

83 100

55 88.5 69.0 103.4

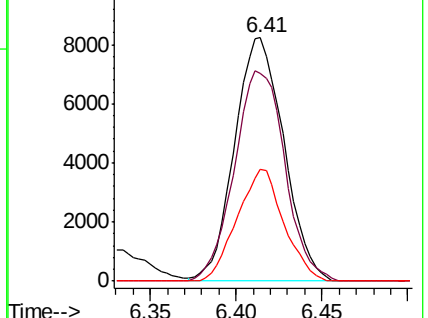
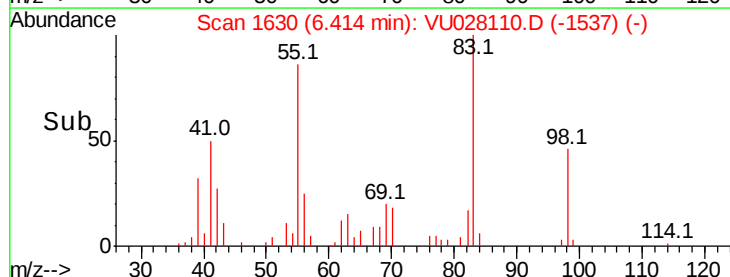
98 43.4 33.3 49.9

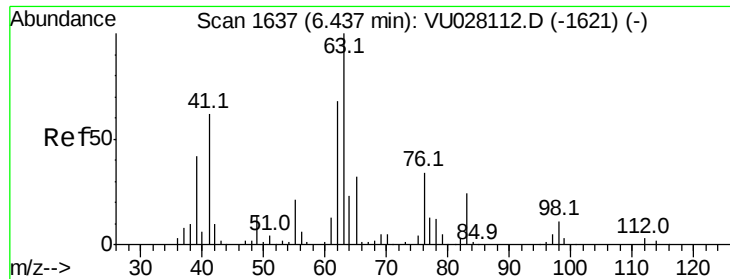


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

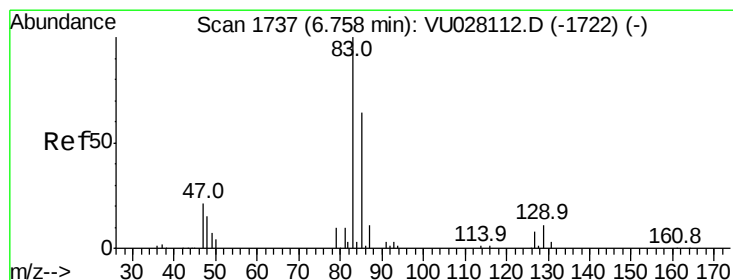
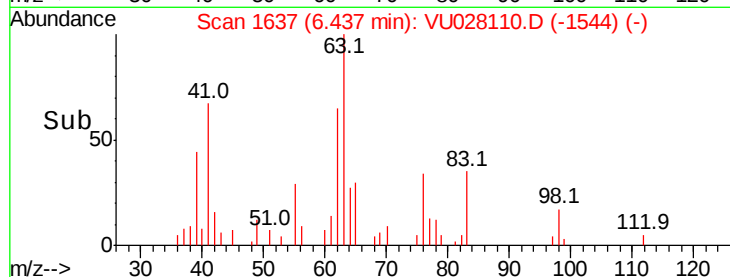
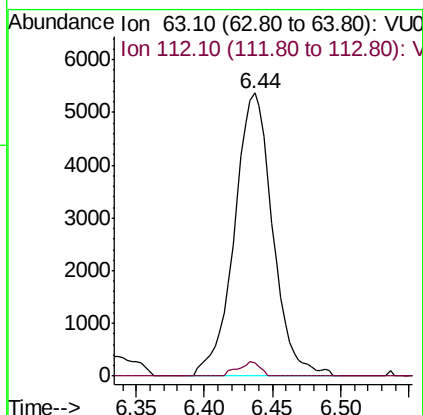
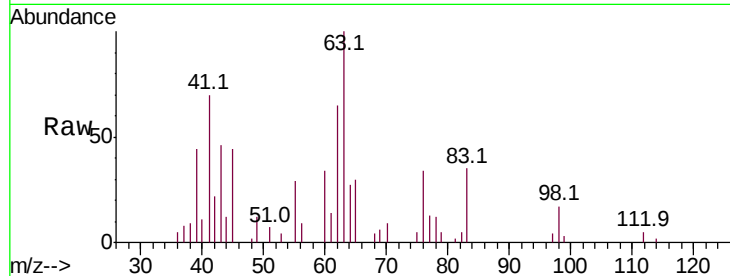




#37
 1,2-Dichloropropane
 Concen: 0.513 ug/L
 RT: 6.44 min Scan# 1637
 Delta R.T. -0.00 min
 Lab File: VU028110.D
 Acq: 14 Nov 2018 10:04

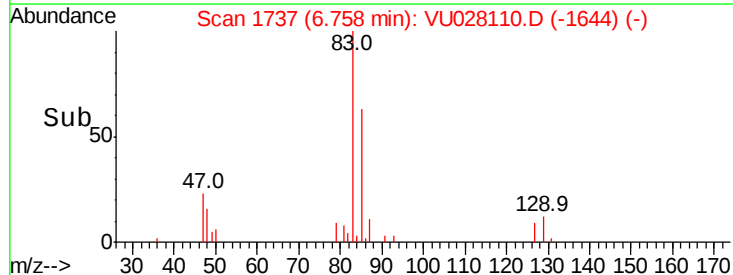
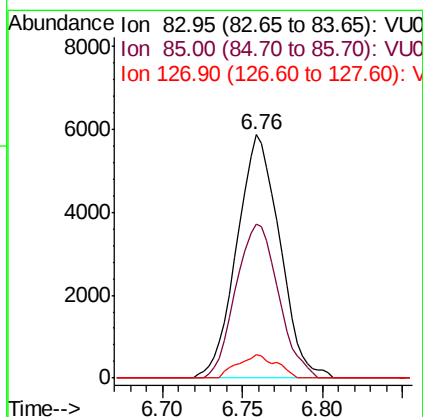
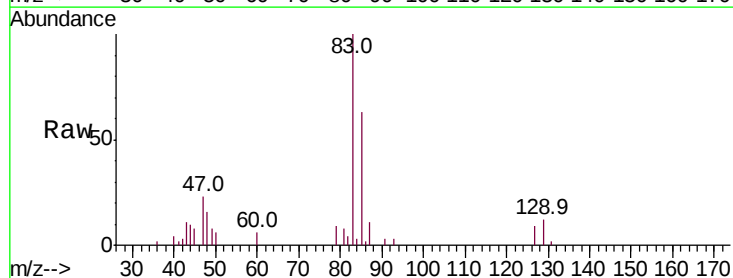
Instrument :
 MSVOA_U
 ClientSampleId :

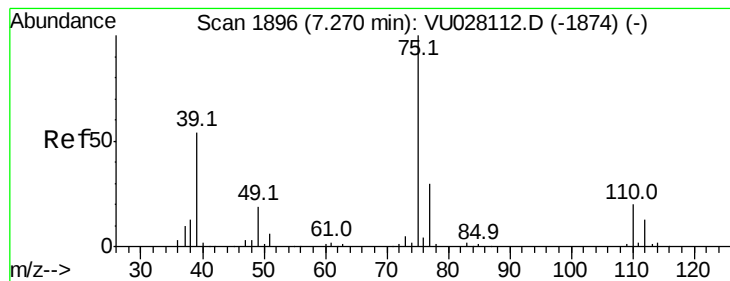
Tot Ion: 63 Resp: 10462
 Ion Ratio Lower Upper
 63 100
 112 2.8 2.2 3.4



#38
 Bromodichloromethane
 Concen: 0.497 ug/L
 RT: 6.76 min Scan# 1737
 Delta R.T. -0.00 min
 Lab File: VU028110.D
 Acq: 14 Nov 2018 10:04

Tgt Ion: 83 Resp: 10778
 Ion Ratio Lower Upper
 83 100
 85 63.5 44.5 82.7
 127 9.4 6.8 10.2



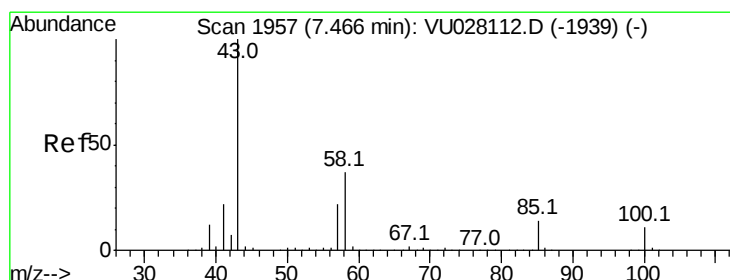
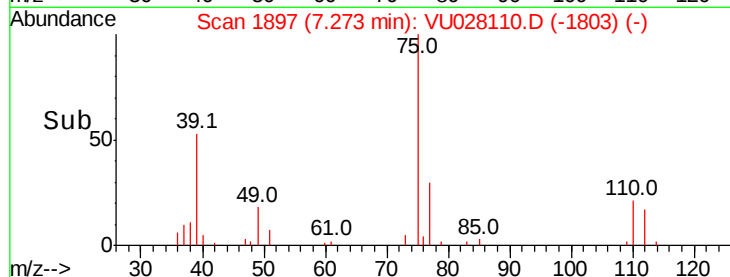
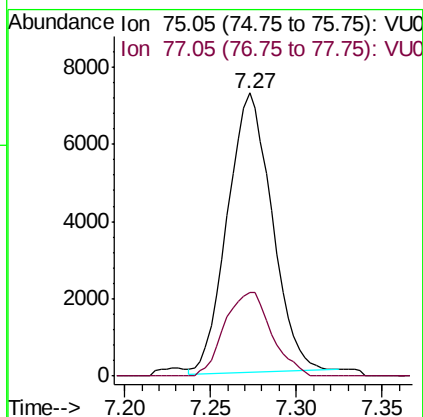
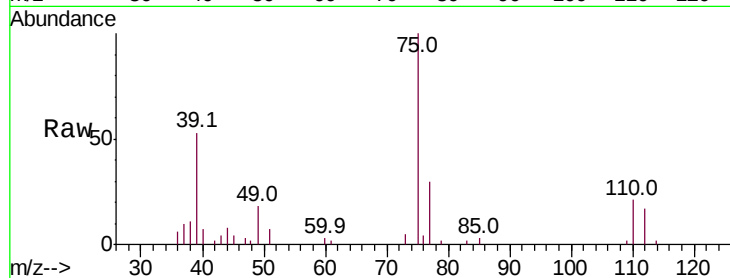


#39

cis-1,3-Dichloropropene
Concen: 0.474 ug/L
RT: 7.27 min Scan# 1897
Delta R.T. 0.00 min
Lab File: VU028110.D
Acq: 14 Nov 2018 10:04

Instrument :
MSVOA_U
ClientSampleId :

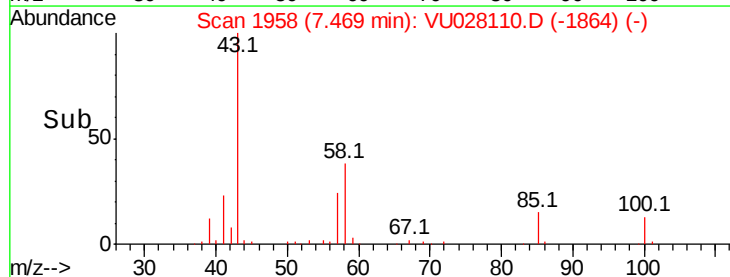
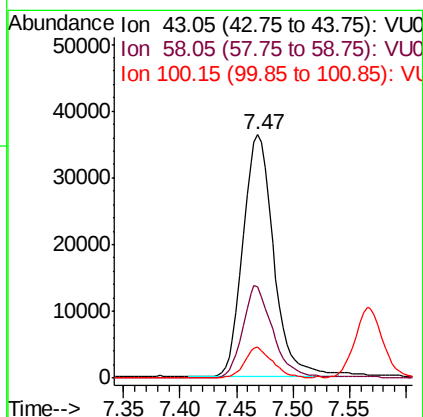
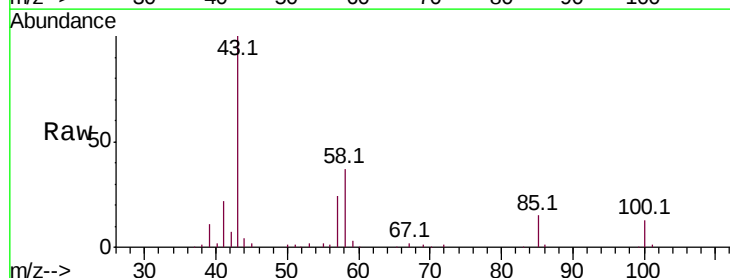
Tot Ion: 75 Resp: 13053
Ion Ratio Lower Upper
75 100
77 29.8 20.9 38.9

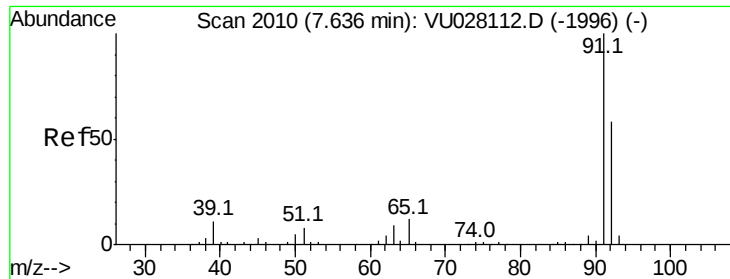


#40

4-Methyl-2-pentanone
Concen: 4.882 ug/L
RT: 7.47 min Scan# 1958
Delta R.T. 0.00 min
Lab File: VU028110.D
Acq: 14 Nov 2018 10:04

Tgt Ion: 43 Resp: 68531
Ion Ratio Lower Upper
43 100
58 38.0 29.9 44.9
100 11.7 9.1 13.7





#42

Toluene

Concen: 0.503 ug/L

RT: 7.64 min Scan# 2011

Delta R.T. 0.00 min

Lab File: VU028110.D

Acq: 14 Nov 2018 10:04

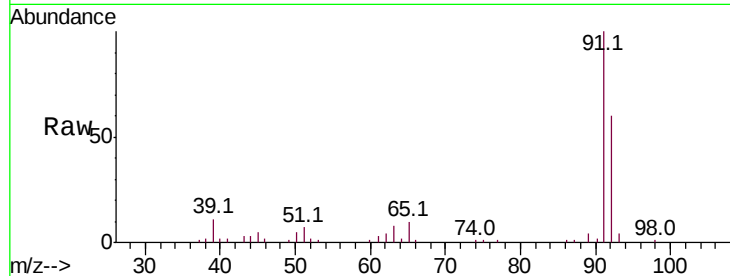
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 38265

Ion Ratio Lower Upper

91 100

92 59.8 40.7 75.7



Abundance Ion 91.15 (90.85 to 91.85): VU028112.D (-1996) (-)

Ion 92.15 (91.85 to 92.85): VU028110.D (-1917) (-)

7.64

25000

20000

15000

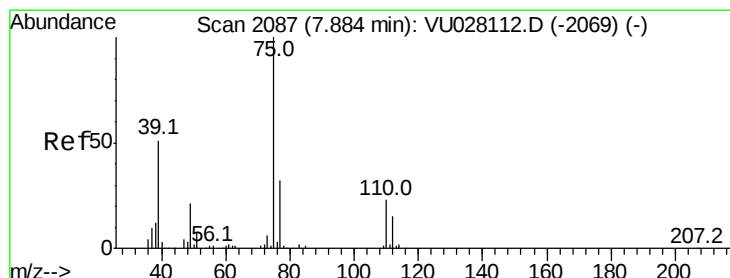
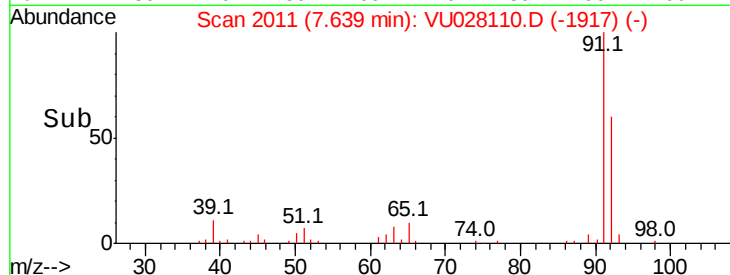
10000

5000

0

Time-->

7.55 7.60 7.65 7.70 7.75



#44

trans-1,3-Dichloropropene

Concen: 0.484 ug/L

RT: 7.88 min Scan# 2086

Delta R.T. -0.00 min

Lab File: VU028110.D

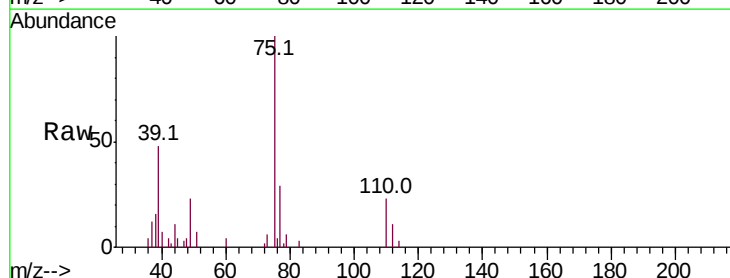
Acq: 14 Nov 2018 10:04

Tgt Ion: 75 Resp: 10452

Ion Ratio Lower Upper

75 100

77 29.4 22.5 41.7



Abundance Ion 75.05 (74.75 to 75.75): VU028112.D (-2069) (-)

Ion 77.05 (76.75 to 77.75): VU028110.D (-1994) (-)

7.88

6000

5000

4000

3000

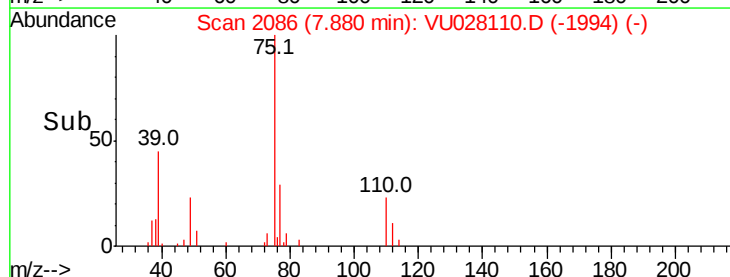
2000

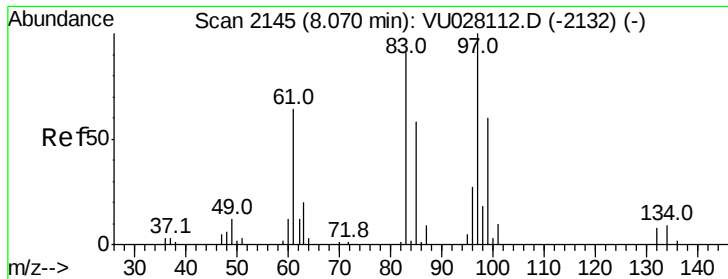
1000

0

Time-->

7.80 7.85 7.90 7.95 8.00

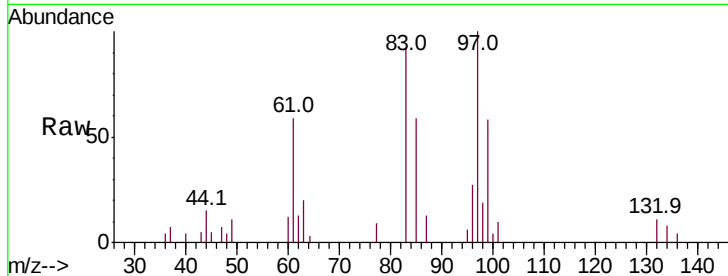




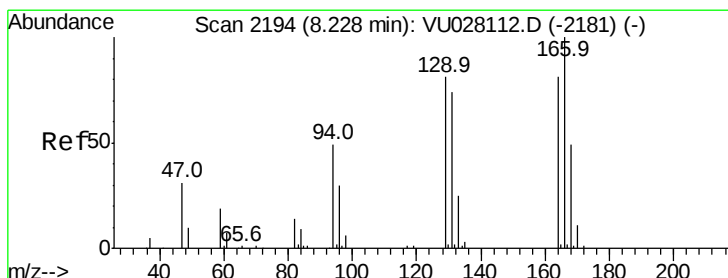
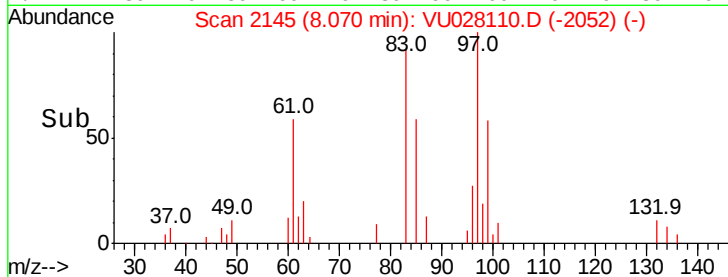
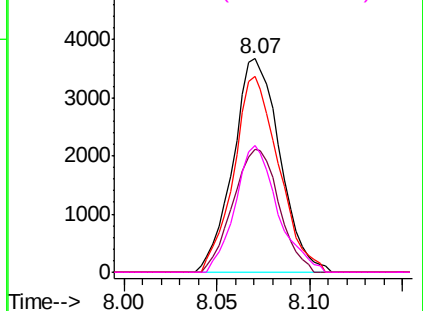
#45
 1,1,2-Trichloroethane
 Concen: 0.522 ug/L
 RT: 8.07 min Scan# 2145
 Delta R.T. -0.00 min
 Lab File: VU028110.D
 Acq: 14 Nov 2018 10:04

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	97	Resp:	6430
Ion	Ratio	Lower	Upper
97	100		
99	57.6	42.1	78.1
83	92.0	63.7	118.3
85	59.1	40.6	75.4

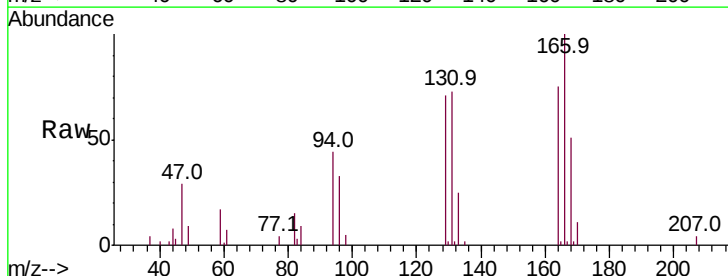


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

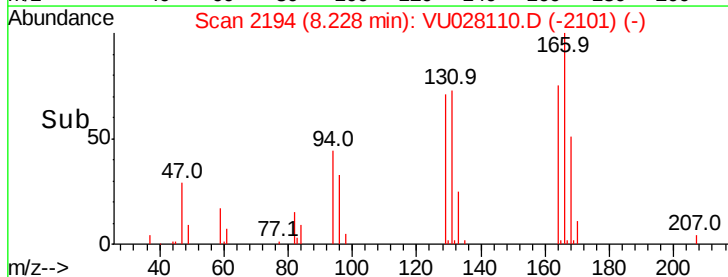
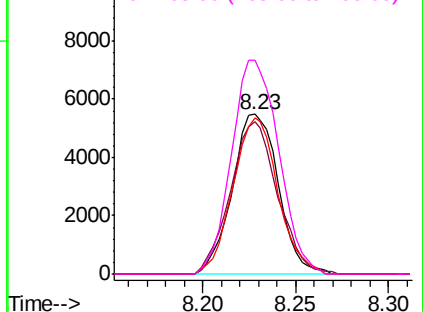


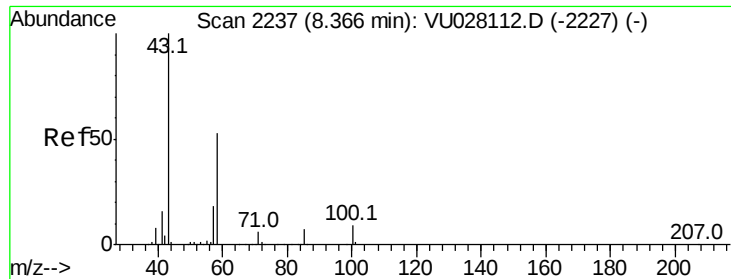
#47
 Tetrachloroethene
 Concen: 0.639 ug/L
 RT: 8.23 min Scan# 2194
 Delta R.T. -0.00 min
 Lab File: VU028110.D
 Acq: 14 Nov 2018 10:04

Tgt Ion:	164	Resp:	9458
Ion	Ratio	Lower	Upper
164	100		
129	95.5	69.7	129.4
131	98.0	64.0	118.8
166	134.0	86.4	160.4



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

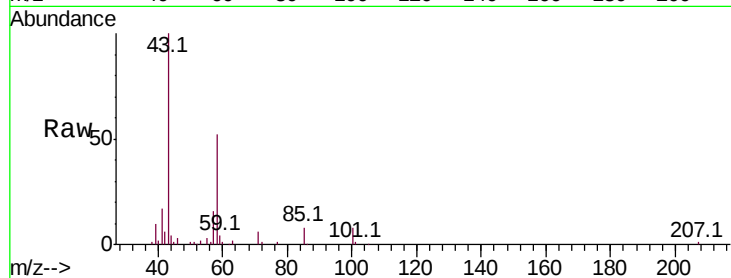




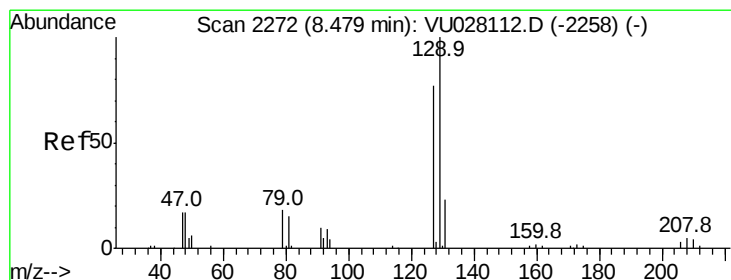
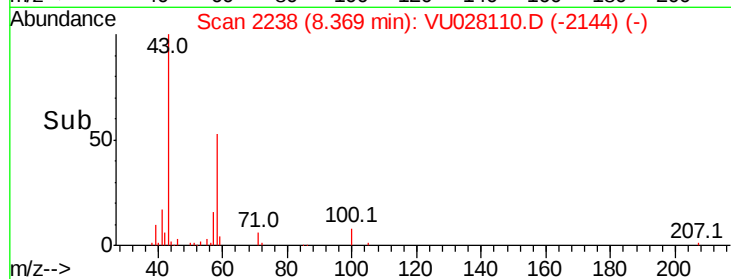
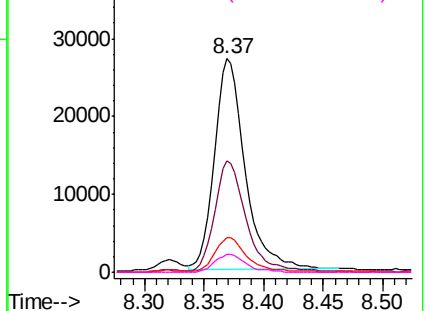
#48
2-Hexanone
Concen: 4.847 ug/L
RT: 8.37 min Scan# 2238
Delta R.T. 0.00 min
Lab File: VU028110.D
Acq: 14 Nov 2018 10:04

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 48416
Ion Ratio Lower Upper
43 100
58 52.1 41.7 62.5
57 17.5 14.0 21.0
100 8.6 7.2 10.8

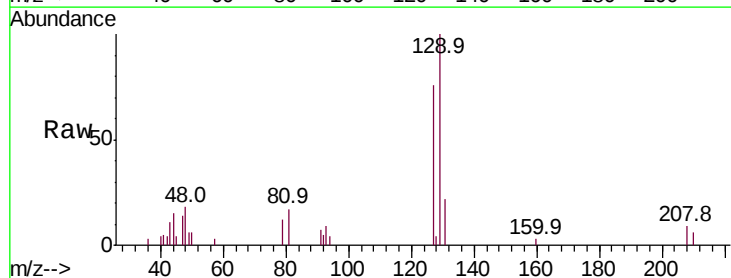


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

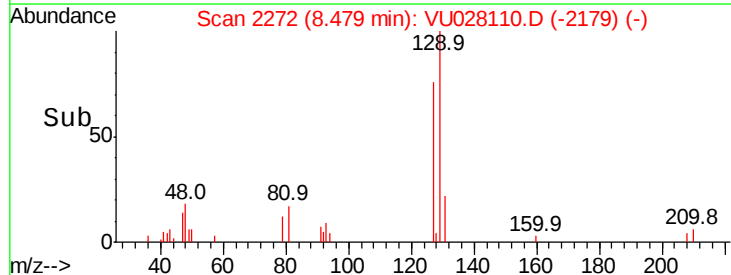
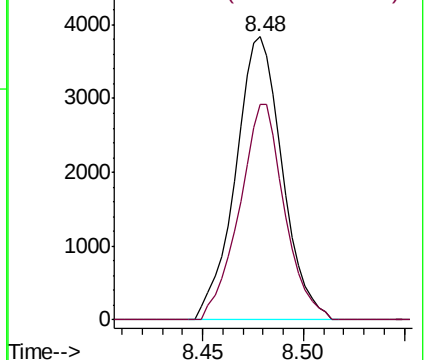


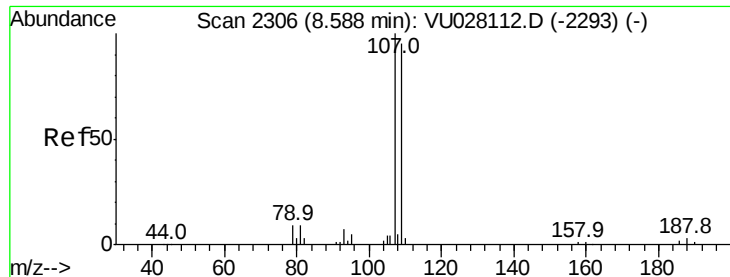
#49
Dibromochloromethane
Concen: 0.475 ug/L
RT: 8.48 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VU028110.D
Acq: 14 Nov 2018 10:04

Tgt Ion: 129 Resp: 6227
Ion Ratio Lower Upper
129 100
127 76.4 54.1 100.5



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

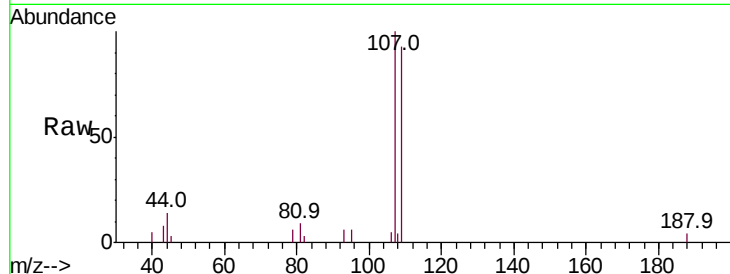




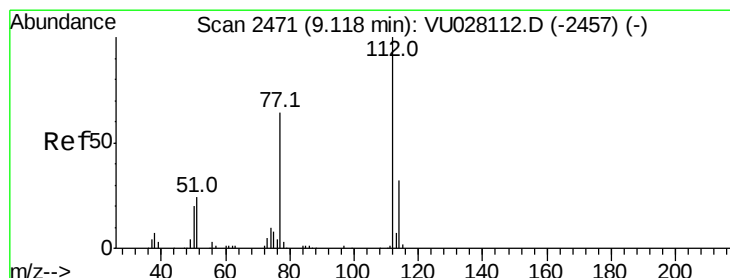
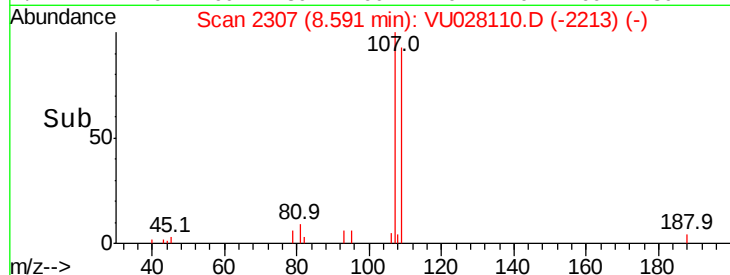
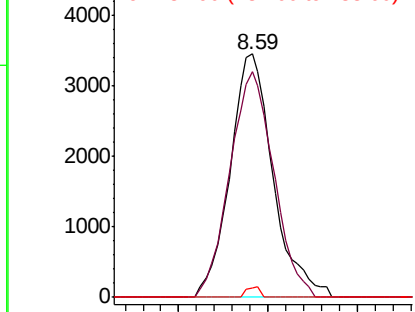
#50
1,2-Dibromoethane
Concen: 0.498 ug/L
RT: 8.59 min Scan# 2307
Delta R.T. 0.00 min
Lab File: VU028110.D
Acq: 14 Nov 2018 10:04

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:107 Resp: 5772
Ion Ratio Lower Upper
107 100
109 92.7 66.6 123.8
188 4.1 2.5 3.7#

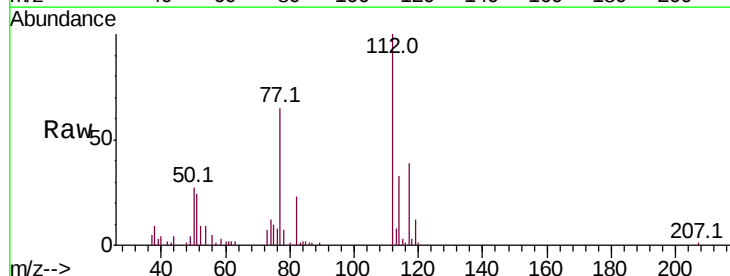


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

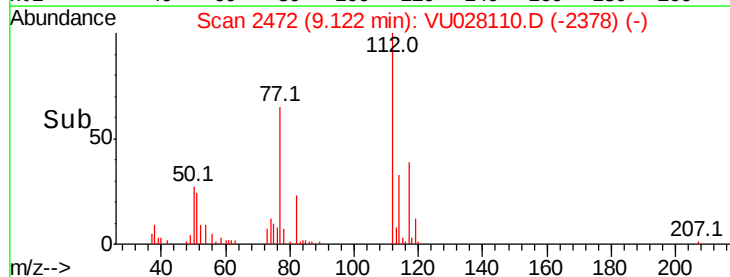
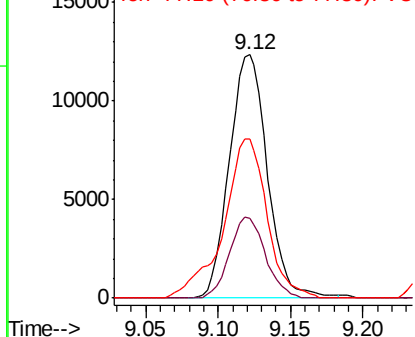


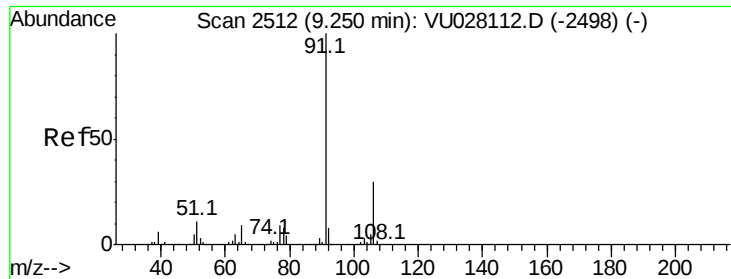
#51
Chlorobenzene
Concen: 0.505 ug/L
RT: 9.12 min Scan# 2472
Delta R.T. 0.00 min
Lab File: VU028110.D
Acq: 14 Nov 2018 10:04

Tgt Ion:112 Resp: 22432
Ion Ratio Lower Upper
112 100
114 32.6 22.5 41.7
77 65.4 51.3 76.9



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

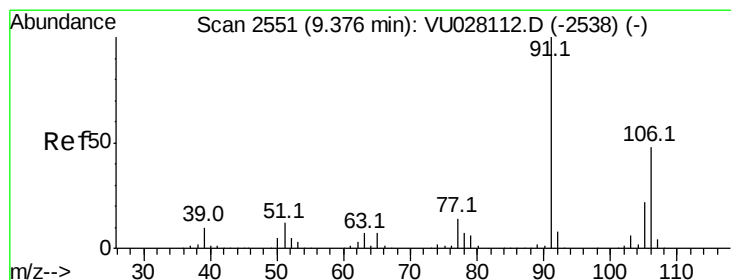
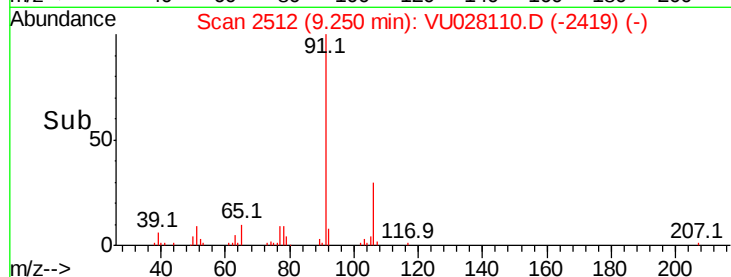
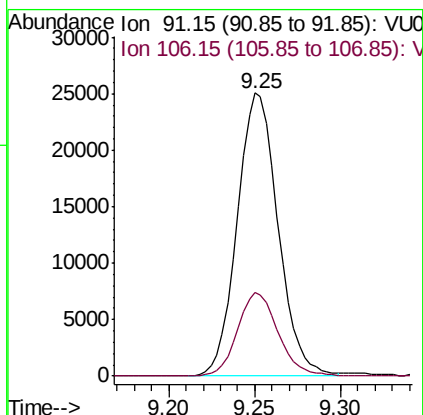
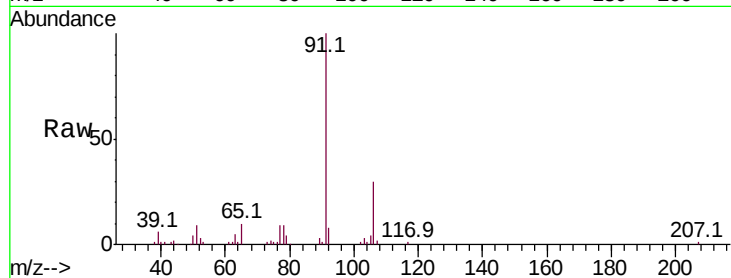




#52
Ethylbenzene
Concen: 0.499 ug/L
RT: 9.25 min Scan# 2512
Delta R.T. -0.00 min
Lab File: VU028110.D
Acq: 14 Nov 2018 10:04

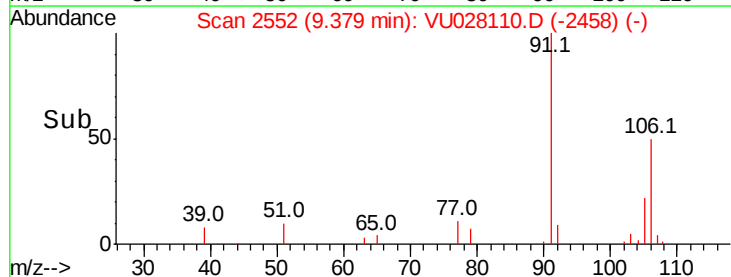
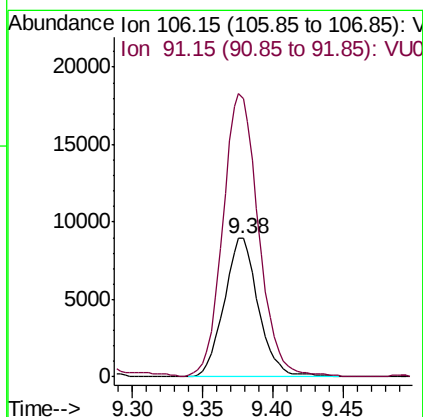
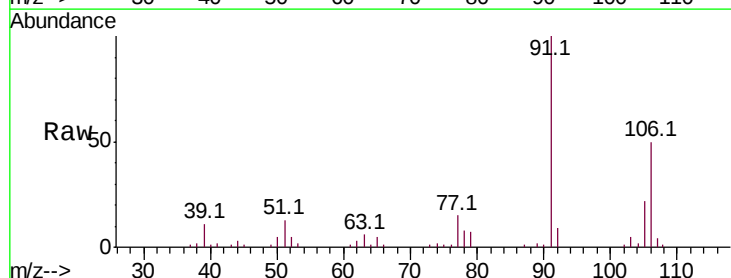
Instrument :
MSVOA_U
ClientSampled :

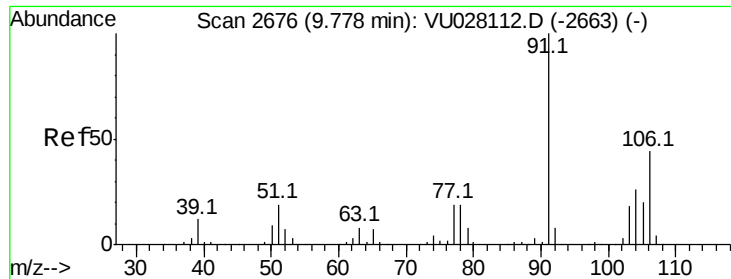
Tot Ion: 91 Resp: 41423
Ion Ratio Lower Upper
91 100
106 29.6 20.9 38.7



#53
m,p-xylene
Concen: 0.503 ug/L
RT: 9.38 min Scan# 2552
Delta R.T. 0.00 min
Lab File: VU028110.D
Acq: 14 Nov 2018 10:04

Tgt Ion: 106 Resp: 15208
Ion Ratio Lower Upper
106 100
91 200.8 145.7 270.7

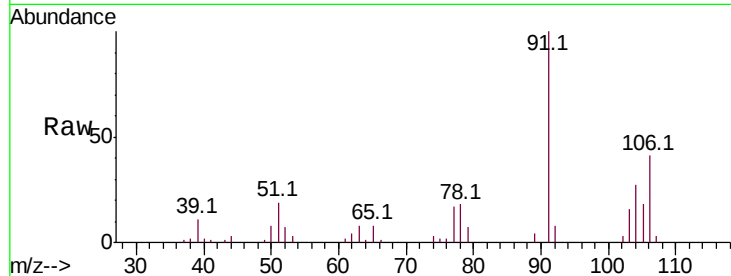




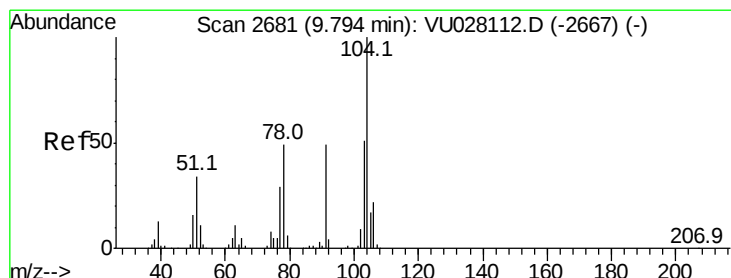
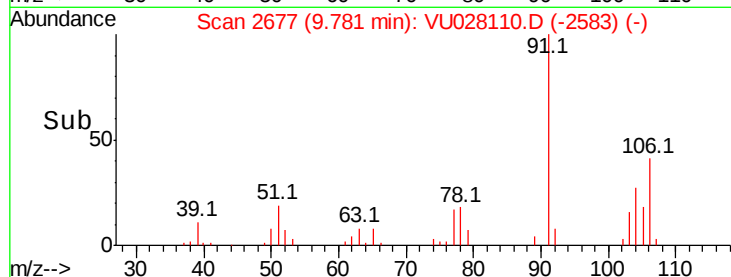
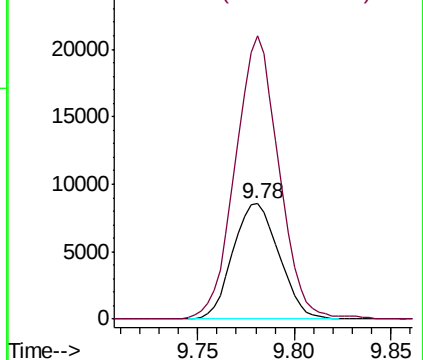
#54
o-xylene
Concen: 0.491 ug/L
RT: 9.78 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VU028110.D
Acq: 14 Nov 2018 10:04

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 14274
Ion Ratio Lower Upper
106 100
91 245.3 158.7 294.7

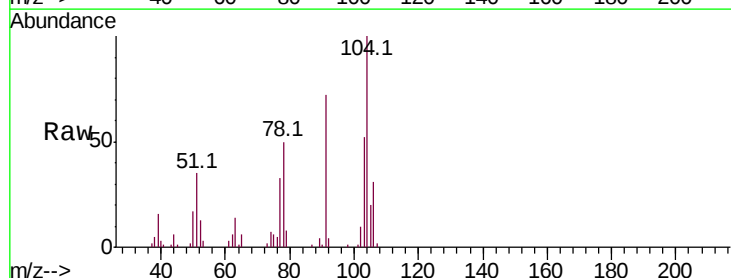


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

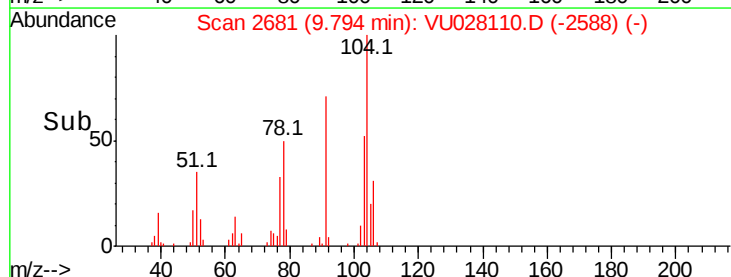
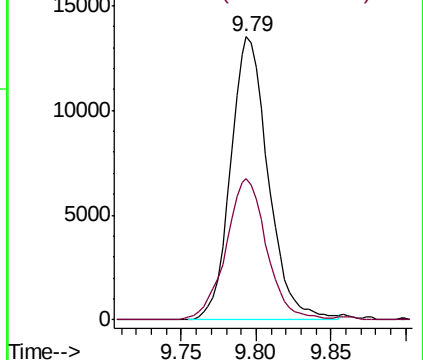


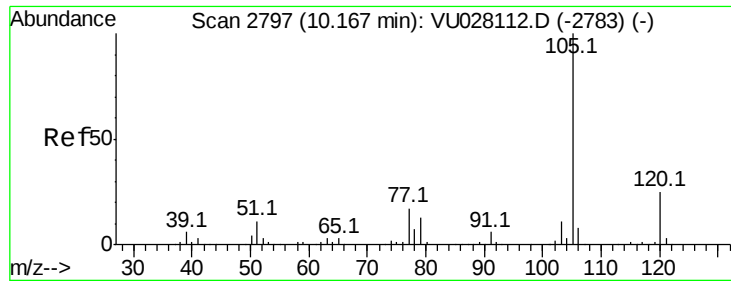
#55
Styrene
Concen: 0.480 ug/L
RT: 9.79 min Scan# 2681
Delta R.T. -0.00 min
Lab File: VU028110.D
Acq: 14 Nov 2018 10:04

Tgt Ion:104 Resp: 23615
Ion Ratio Lower Upper
104 100
78 49.8 34.5 64.1



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





#56

Isopropylbenzene

Concen: 0.498 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. -0.00 min

Lab File: VU028110.D

Acq: 14 Nov 2018 10:04

Instrument :

MSVOA_U

ClientSampled :

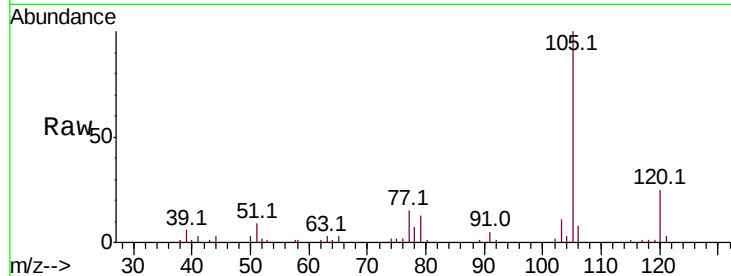
Tot Ion:105 Resp: 39176

Ion Ratio Lower Upper

105 100

120 23.7 20.5 30.7

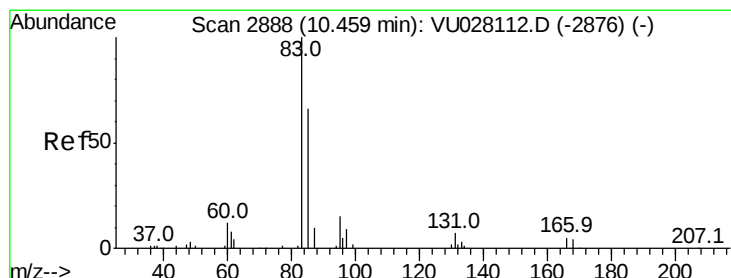
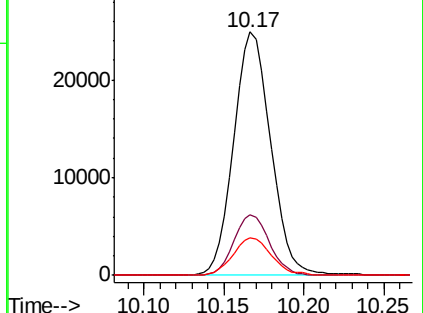
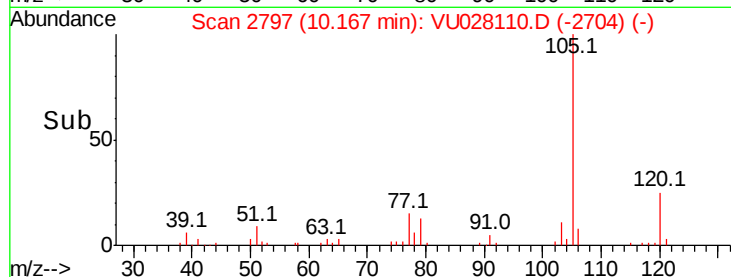
77 15.8 13.3 19.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 0.507 ug/L

RT: 10.46 min Scan# 2888

Delta R.T. -0.00 min

Lab File: VU028110.D

Acq: 14 Nov 2018 10:04

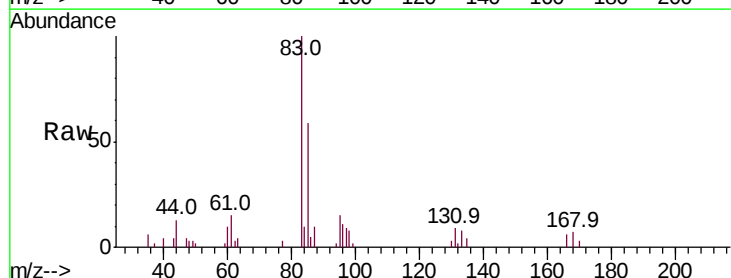
Tgt Ion: 83 Resp: 8050

Ion Ratio Lower Upper

83 100

85 58.8 46.7 86.7

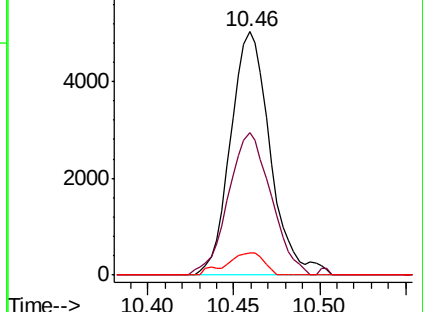
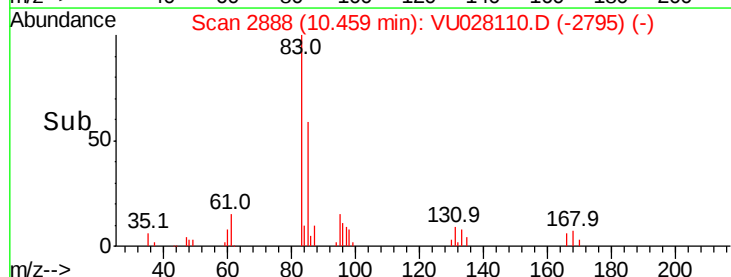
131 9.0 5.9 8.9#

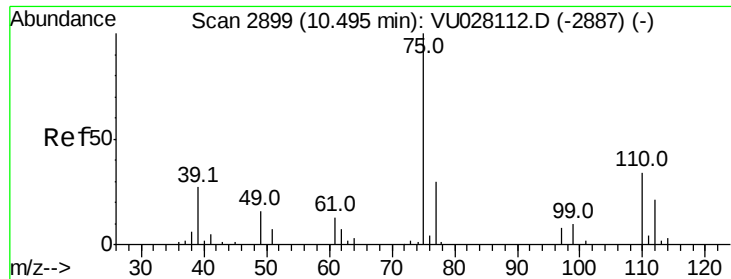


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 0.519 ug/L

RT: 10.49 min Scan# 2899

Delta R.T. -0.00 min

Lab File: VU028110.D

Acq: 14 Nov 2018 10:04

Instrument :

MSVOA_U

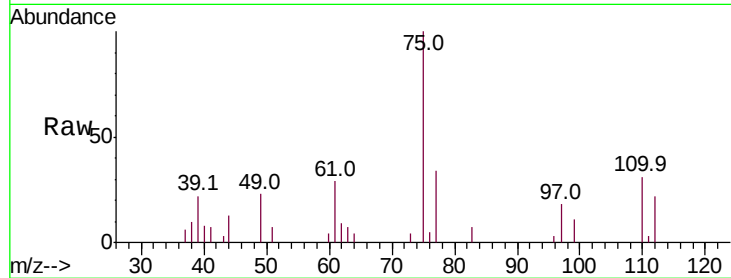
ClientSampleId :

Tot Ion: 75 Resp: 5941

Ion Ratio Lower Upper

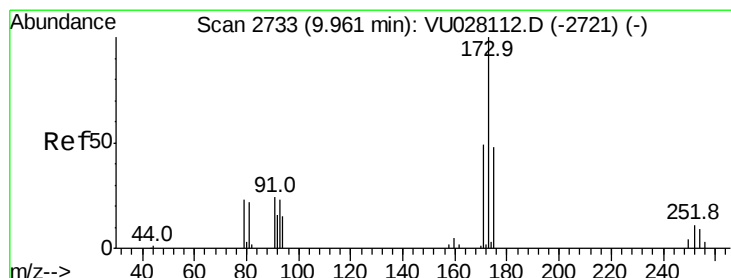
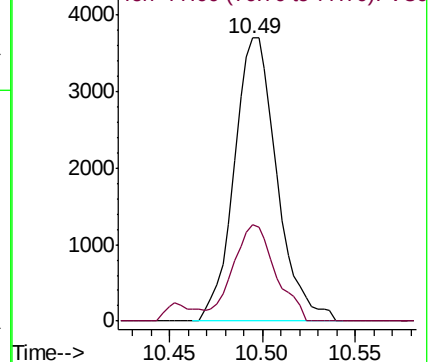
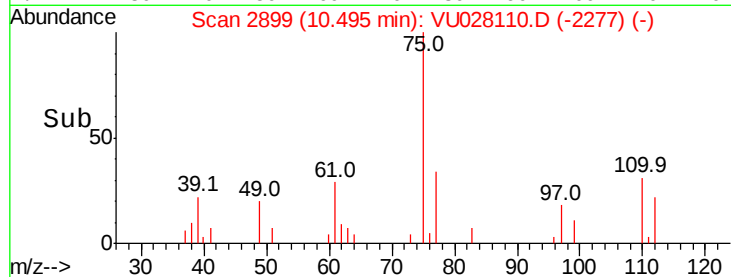
75 100

77 34.1 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VU028110.D (-2277) (-)

Ion 77.00 (76.70 to 77.70): VU028110.D (-2277) (-)



#61

Bromoform

Concen: 0.529 ug/L

RT: 9.96 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VU028110.D

Acq: 14 Nov 2018 10:04

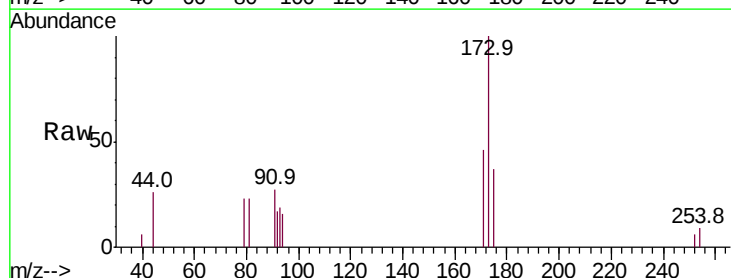
Tgt Ion:173 Resp: 3543

Ion Ratio Lower Upper

173 100

175 36.5 38.2 57.2#

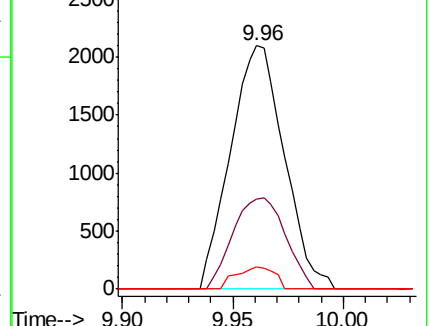
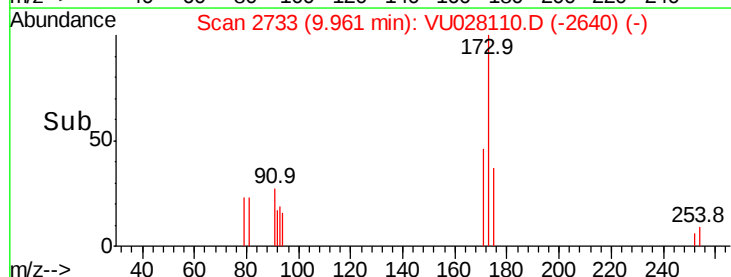
254 6.5 7.1 10.7#

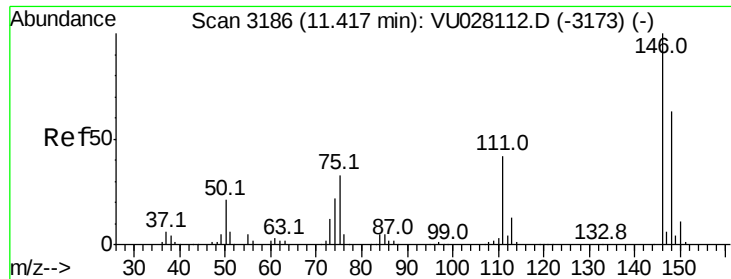


Abundance Ion 172.90 (172.60 to 173.60): VU028110.D (-2640) (-)

Ion 174.90 (174.60 to 175.60): VU028110.D (-2640) (-)

Ion 253.75 (253.45 to 254.45): VU028110.D (-2640) (-)





#62

1,3-Dichlorobenzene

Concen: 0.512 ug/L

RT: 11.42 min Scan# 3187

Delta R.T. 0.00 min

Lab File: VU028110.D

Acq: 14 Nov 2018 10:04

Instrument :

MSVOA_U

ClientSampleId :

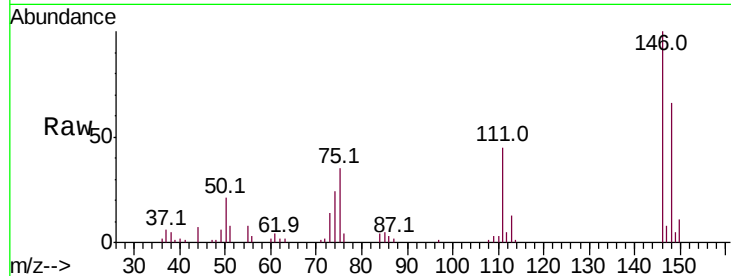
Tot Ion:146 Resp: 16032

Ion Ratio Lower Upper

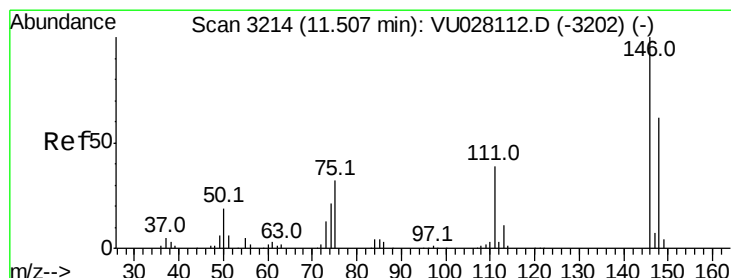
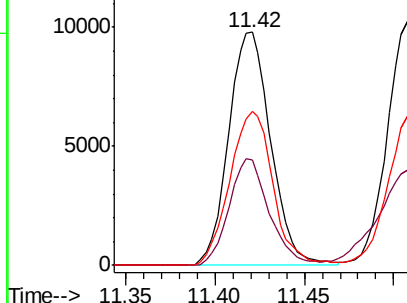
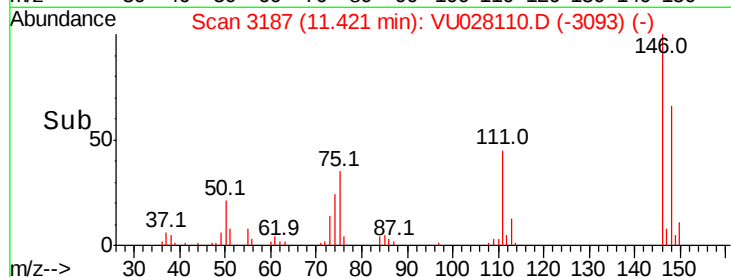
146 100

111 45.1 29.3 54.3

148 65.8 44.1 81.9



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: 0.524 ug/L

RT: 11.51 min Scan# 3214

Delta R.T. -0.00 min

Lab File: VU028110.D

Acq: 14 Nov 2018 10:04

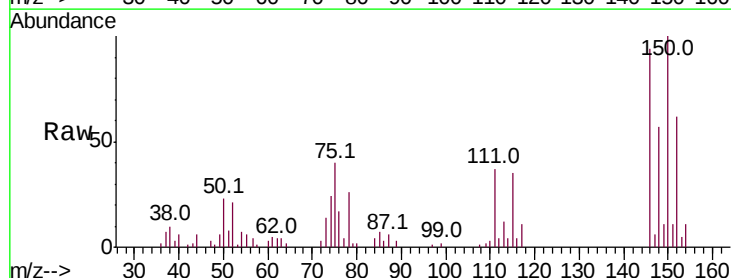
Tgt Ion:146 Resp: 16610

Ion Ratio Lower Upper

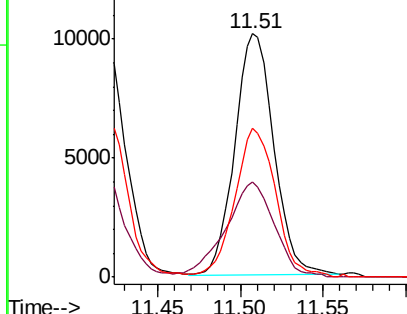
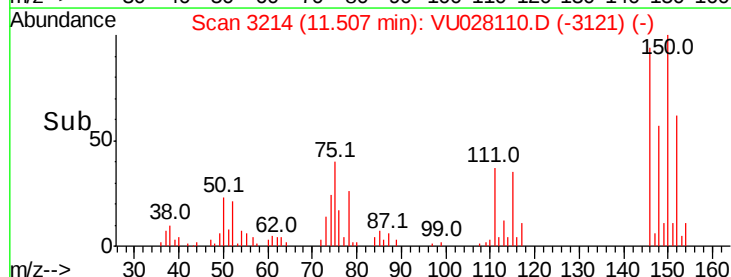
146 100

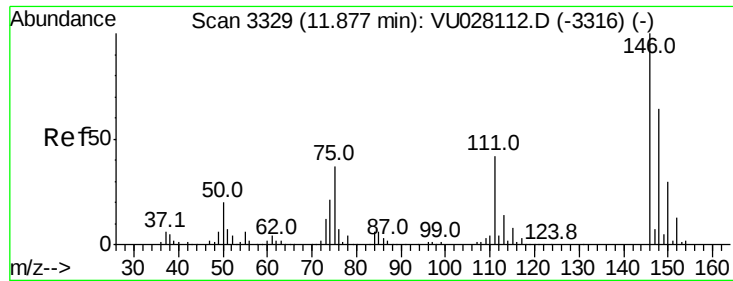
111 39.0 27.4 51.0

148 61.2 43.8 81.3



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: 0.524 ug/L

RT: 11.88 min Scan# 3330

Delta R.T. 0.00 min

Lab File: VU028110.D

Acq: 14 Nov 2018 10:04

Instrument :

MSVOA_U

ClientSampled :

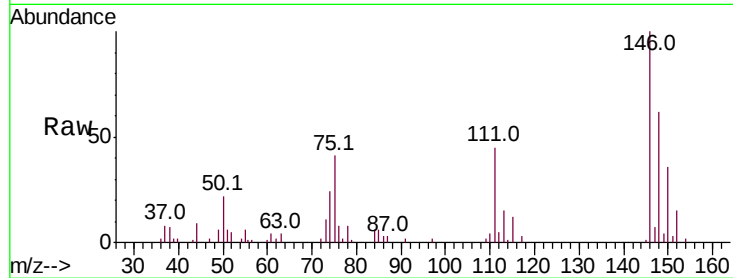
Tot Ion:146 Resp: 15699

Ion Ratio Lower Upper

146 100

111 45.2 33.9 50.9

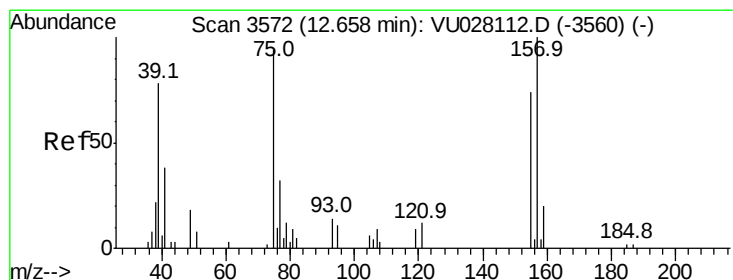
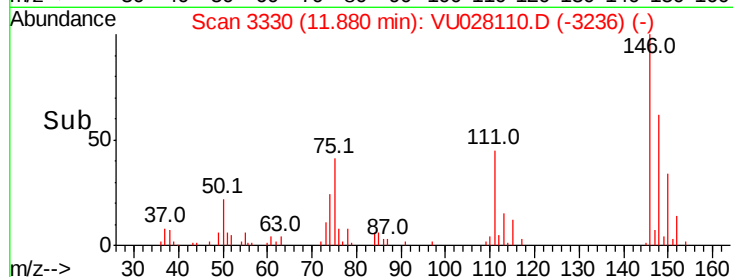
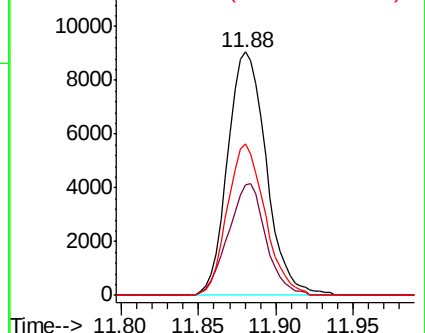
148 62.2 50.9 76.3



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: 0.466 ug/L

RT: 12.66 min Scan# 3572

Delta R.T. -0.00 min

Lab File: VU028110.D

Acq: 14 Nov 2018 10:04

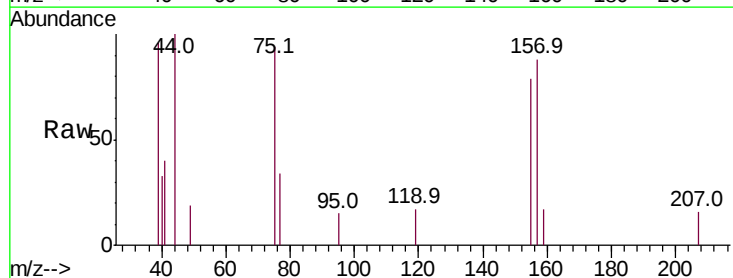
Tgt Ion: 75 Resp: 1014

Ion Ratio Lower Upper

75 100

155 83.4 62.8 94.2

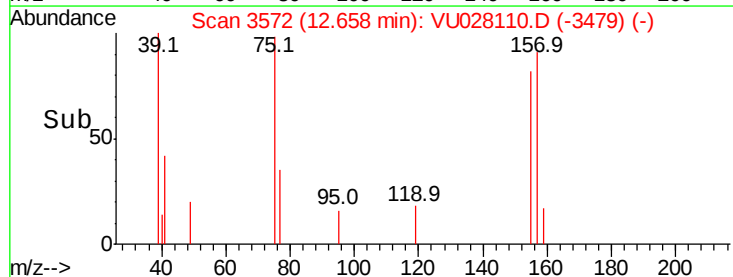
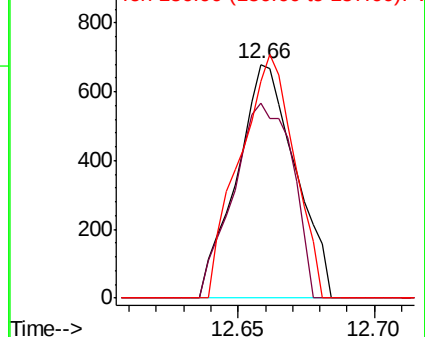
157 92.8 85.3 127.9

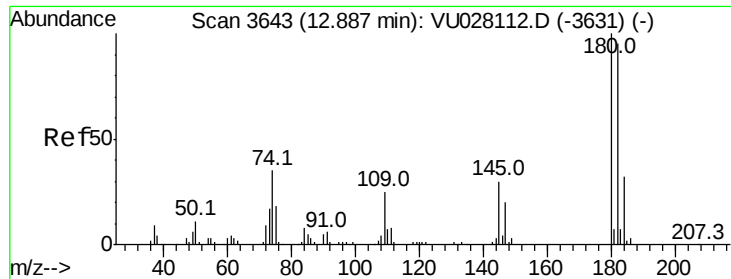


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

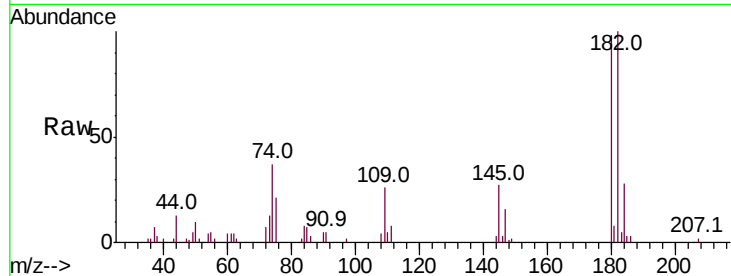




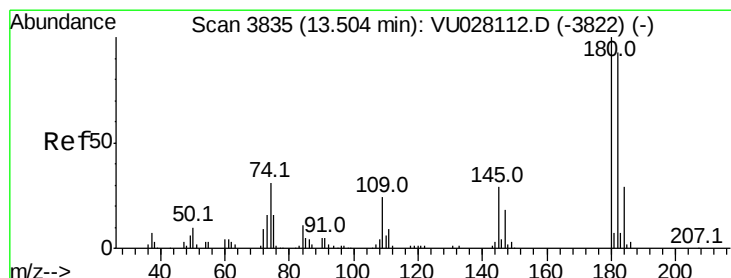
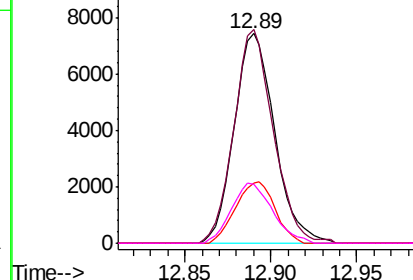
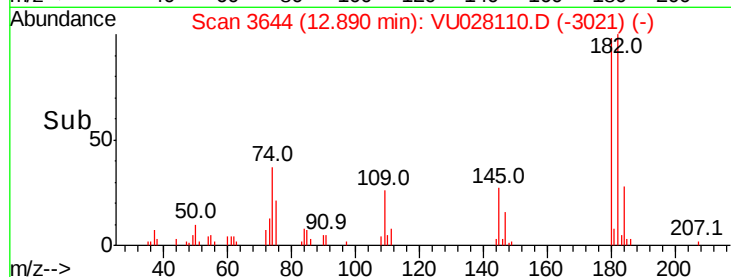
#67
 1,3,5-Trichlorobenzene
 Concen: 0.506 ug/L
 RT: 12.89 min Scan# 3644
 Delta R.T. 0.00 min
 Lab File: VU028110.D
 Acq: 14 Nov 2018 10:04

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180	Resp:	12172
Ion Ratio	Lower	Upper
180	100	
182	99.0	76.6 114.8
184	28.4	24.7 37.1
145	29.1	24.0 36.0

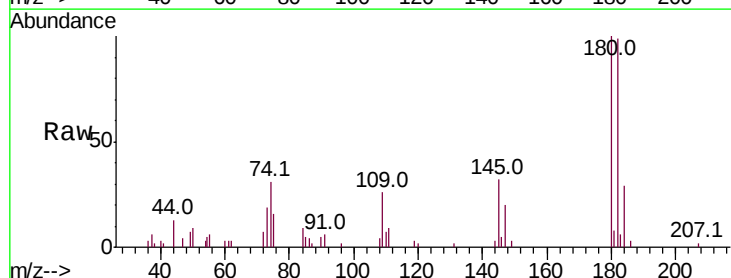


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

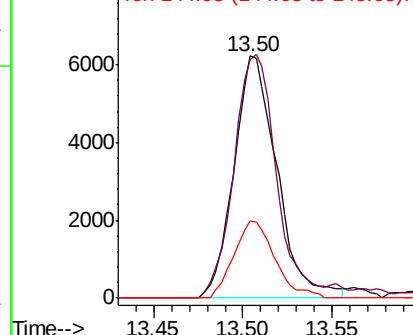
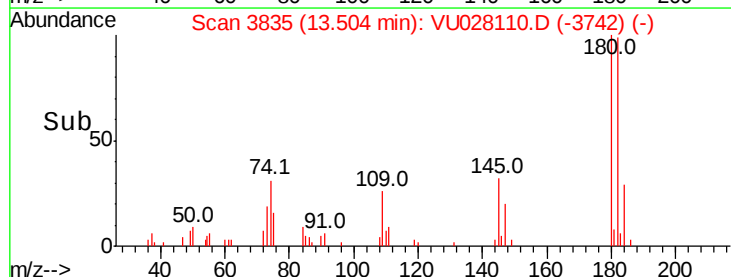


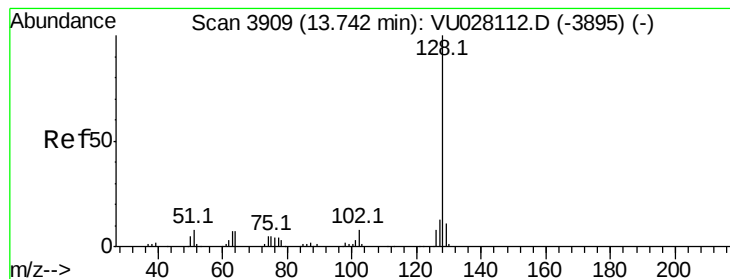
#68
 1,2,4-trichlorobenzene
 Concen: 0.497 ug/L
 RT: 13.50 min Scan# 3835
 Delta R.T. -0.00 min
 Lab File: VU028110.D
 Acq: 14 Nov 2018 10:04

Tgt Ion:180	Resp:	10404
Ion Ratio	Lower	Upper
180	100	
182	99.2	75.1 112.7
145	30.3	23.4 35.0



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: 0.489 ug/L

RT: 13.75 min Scan# 3911

Delta R.T. 0.01 min

Lab File: VU028110.D

Acq: 14 Nov 2018 10:04

Instrument :

MSVOA_U

ClientSampled :

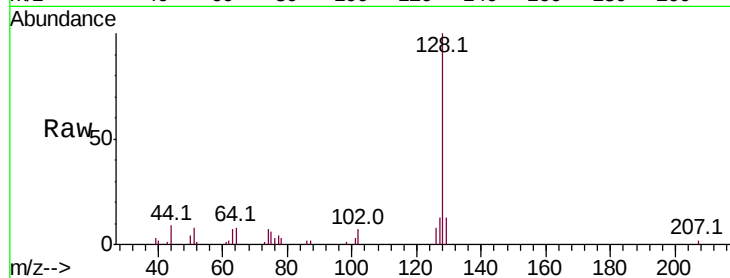
Tot Ion:128 Resp: 19090

Ion Ratio Lower Upper

128 100

129 10.7 8.5 12.7

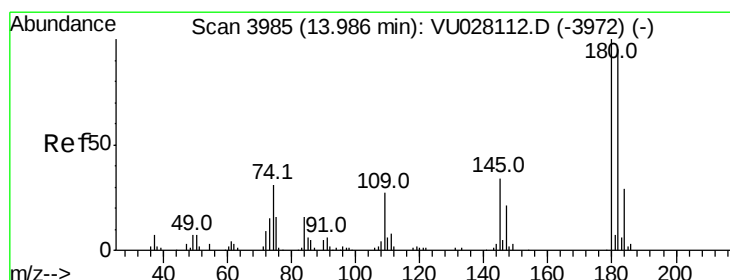
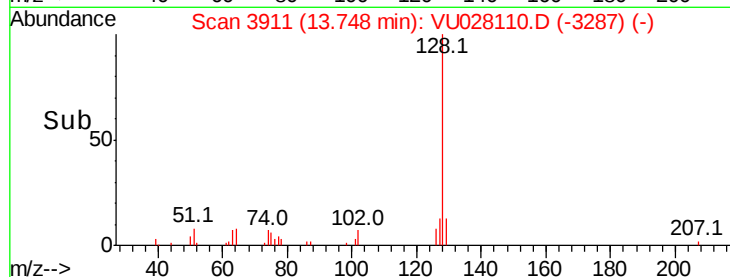
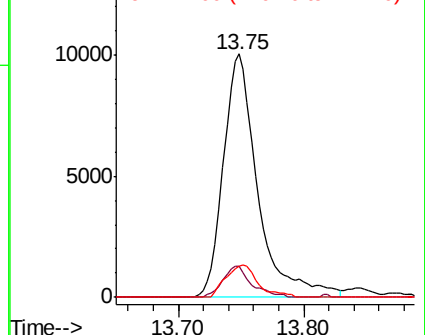
127 12.3 10.2 15.4



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: 0.485 ug/L

RT: 13.99 min Scan# 3986

Delta R.T. 0.00 min

Lab File: VU028110.D

Acq: 14 Nov 2018 10:04

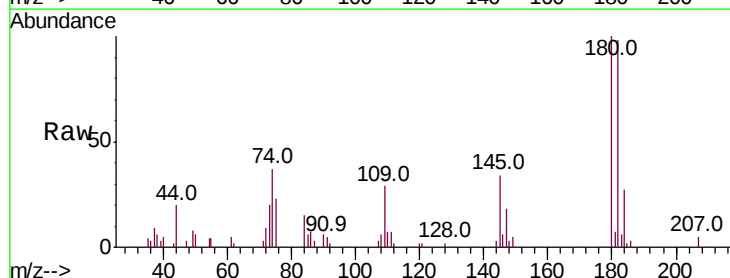
Tgt Ion:180 Resp: 9357

Ion Ratio Lower Upper

180 100

182 99.3 77.6 116.4

145 34.6 26.2 39.4



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

