

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091018\
 Data File : VU026636.D
 Acq On : 10 Sep 2018 08:55
 Operator : MD/SY
 Sample : VSTD05050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 11 04:12:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091018WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Sep 11 04:12:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	194319	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	186560	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	93454	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	74395	51.37	ug/L	0.00
7) Chloroethane-d5	1.68	69	60314	51.69	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	132737	51.22	ug/L	0.00
21) 2-Butanone-d5	4.18	46	91992	102.08	ug/L	0.00
24) Chloroform-d	4.65	84	123624	51.34	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	79560	50.49	ug/L	0.00
32) Benzene-d6	5.34	84	247777	51.32	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.33	67	83156	51.32	ug/L	0.00
41) Toluene-d8	7.57	98	235887	52.07	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	38798	51.50	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	68402	103.47	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	110532	49.82	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	93013	49.93	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	60233	49.242	ug/L 100
3) Chloromethane	1.33	50	81738	50.835	ug/L 100
5) Vinyl chloride	1.40	62	84551	50.889	ug/L 100
6) Bromomethane	1.62	94	48299	49.884	ug/L 100
8) Chloroethane	1.70	64	50958	49.453	ug/L 100
9) Trichlorofluoromethane	1.89	101	106028	50.608	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	59600	49.953	ug/L 100
12) 1,1-Dichloroethene	2.29	96	57521	50.202	ug/L 100
13) Acetone	2.32	43	105860	103.142	ug/L 100
14) Carbon disulfide	2.48	76	181062	48.655	ug/L 100
15) Methyl Acetate	2.61	43	72278	49.363	ug/L 100
16) Methylene chloride	2.70	84	68494	50.653	ug/L 100
17) trans-1,2-Dichloroethene	2.98	96	60946	50.200	ug/L 100
18) Methyl tert-butyl Ether	3.00	73	190113	50.819	ug/L 100
19) 1,1-Dichloroethane	3.45	63	119728	50.849	ug/L 100
20) cis-1,2-Dichloroethene	4.23	96	68511	50.100	ug/L 100
22) 2-Butanone	4.26	43	121684	103.549	ug/L 100
23) Bromochloromethane	4.55	128	35963	51.418	ug/L 100
25) Chloroform	4.67	83	118868	50.227	ug/L 100
27) 1,2-Dichloroethane	5.40	62	95157	50.636	ug/L 100
29) Cyclohexane	5.00	56	103320	50.560	ug/L 100
30) 1,1,1-Trichloroethane	4.92	97	100031	50.613	ug/L 100
31) Carbon tetrachloride	5.14	117	89833	50.286	ug/L 100
33) Benzene	5.39	78	264681	50.663	ug/L 100
34) Trichloroethene	6.19	95	64405	49.598	ug/L 100
35) Methylcyclohexane	6.42	83	105328	50.674	ug/L 100
37) 1,2-Dichloropropane	6.43	63	74726	51.200	ug/L 100
38) Bromodichloromethane	6.76	83	90563	50.634	ug/L 100
39) cis-1,3-Dichloropropene	7.27	75	110324	51.083	ug/L 100
40) 4-Methyl-2-pentanone	7.46	43	187552	100.742	ug/L 100

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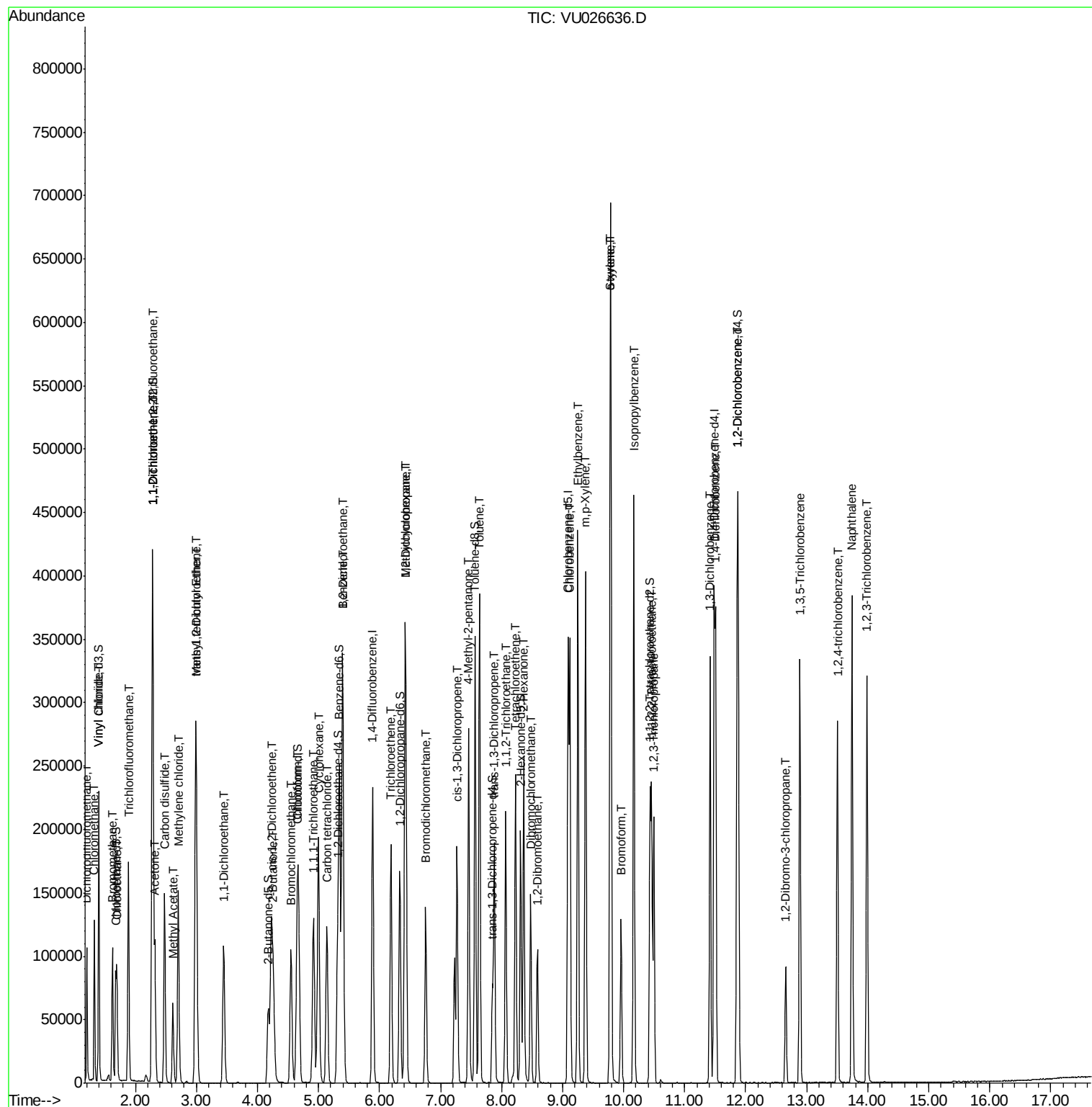
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.64	91	277985	51.337	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	102599	51.065	ug/L	100
45) 1,1,2-Trichloroethane	8.07	97	65354	50.482	ug/L	100
46) Tetrachloroethene	8.23	164	54220	49.683	ug/L	100
48) 2-Hexanone	8.36	43	163868	104.254	ug/L	100
49) Dibromochloromethane	8.48	129	75386	50.379	ug/L	100
50) 1,2-Dibromoethane	8.59	107	69580	50.242	ug/L	100
51) Chlorobenzene	9.12	112	177645	49.964	ug/L	100
52) Ethylbenzene	9.25	91	300074	51.241	ug/L	100
53) m,p-Xylene	9.38	106	114237	51.735	ug/L	100
54) o-xylene	9.78	106	113034	51.579	ug/L	100
55) Styrene	9.79	104	193529	52.206	ug/L	100
56) Isopropylbenzene	10.17	105	289770	51.906	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.46	83	111371	49.658	ug/L	100
59) 1,2,3-Trichloropropane	10.49	75	85110	49.286	ug/L	100
61) Bromoform	9.96	173	58288	50.631	ug/L	100
62) 1,3-Dichlorobenzene	11.42	146	134908	50.275	ug/L	100
63) 1,4-Dichlorobenzene	11.51	146	138333	48.663	ug/L	100
65) 1,2-Dichlorobenzene	11.88	146	144040	50.790	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.66	75	22753	49.661	ug/L	100
67) 1,3,5-Trichlorobenzene	12.89	180	106362	49.971	ug/L	100
68) 1,2,4-trichlorobenzene	13.50	180	91583	49.504	ug/L	100
69) Naphthalene	13.74	128	297461	52.472	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	101955	50.877	ug/L	100

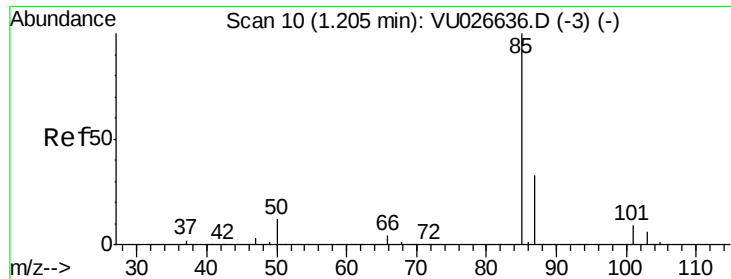
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 49.242 ug/L

RT: 1.21 min Scan# 10

Delta R.T. 0.00 min

Lab File: VU026636.D

Acq: 10 Sep 2018 08:55

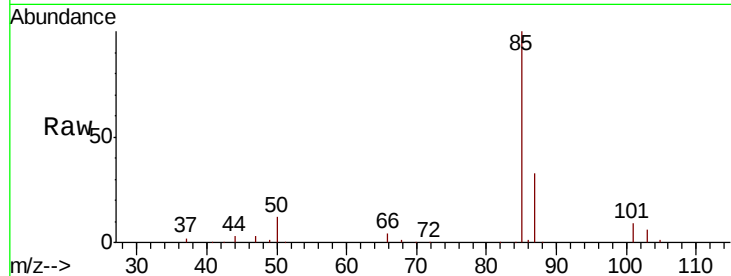
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 60233

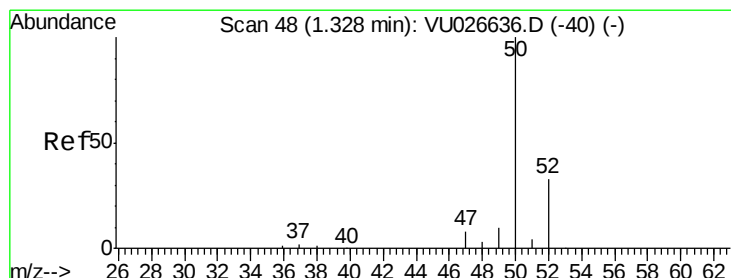
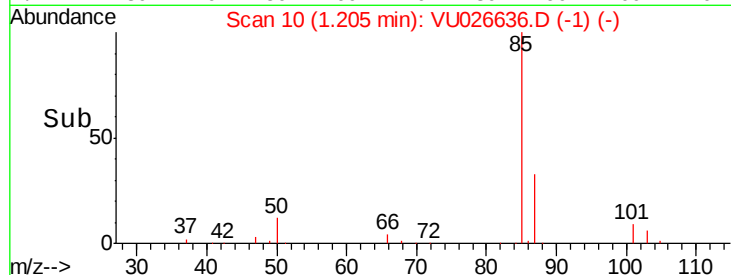
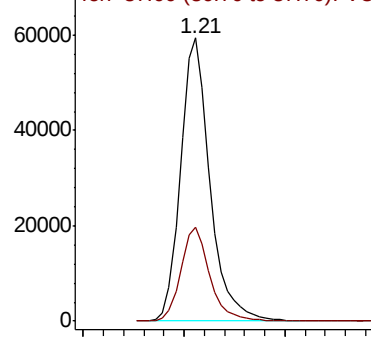
Ion Ratio Lower Upper

85 100

87 32.6 26.1 39.1



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



#3

Chloromethane

Concen: 50.835 ug/L

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU026636.D

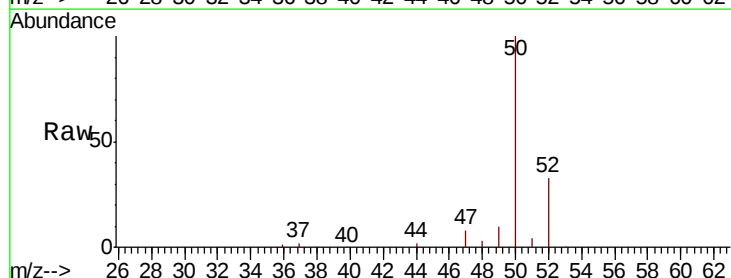
Acq: 10 Sep 2018 08:55

Tgt Ion: 50 Resp: 81738

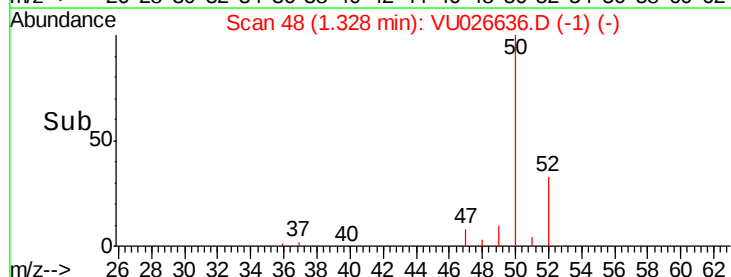
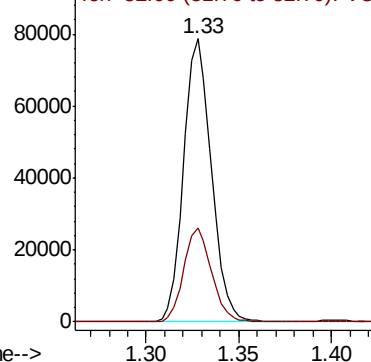
Ion Ratio Lower Upper

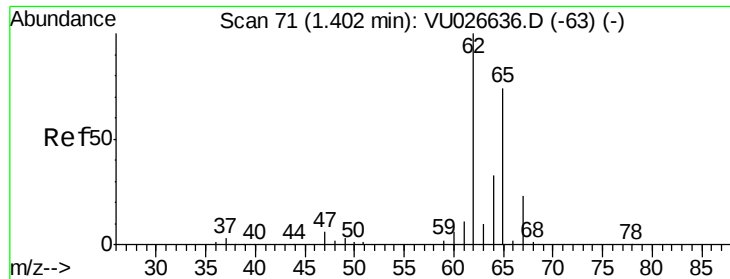
50 100

52 33.2 23.2 43.2



Abundance Ion 50.00 (49.70 to 50.70): VU0
Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 50.889 ug/L

RT: 1.40 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU026636.D

Acq: 10 Sep 2018 08:55

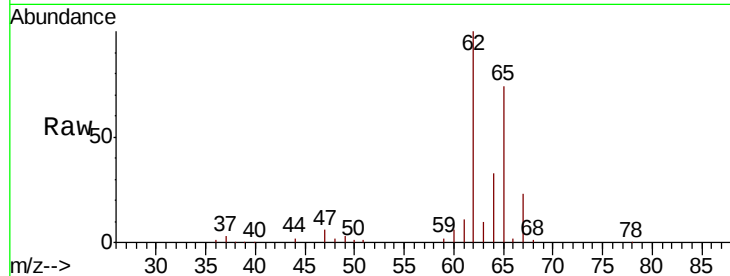
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 62 Resp: 84551

Ion Ratio Lower Upper

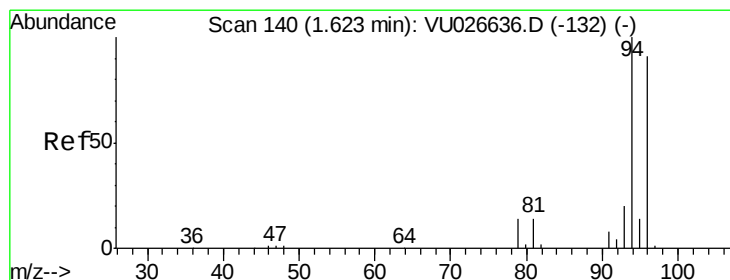
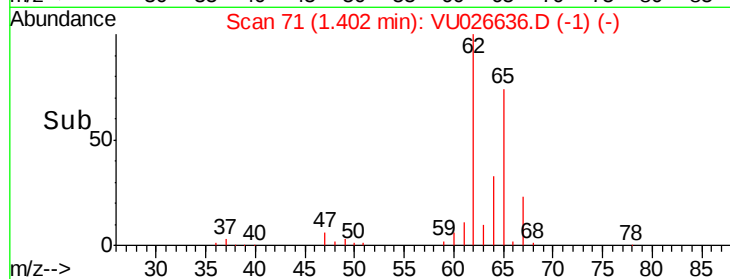
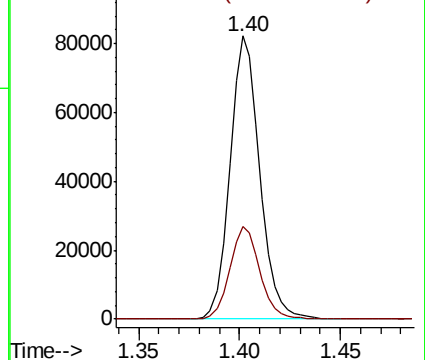
62 100

64 32.7 22.9 42.5



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 49.884 ug/L

RT: 1.62 min Scan# 140

Delta R.T. 0.00 min

Lab File: VU026636.D

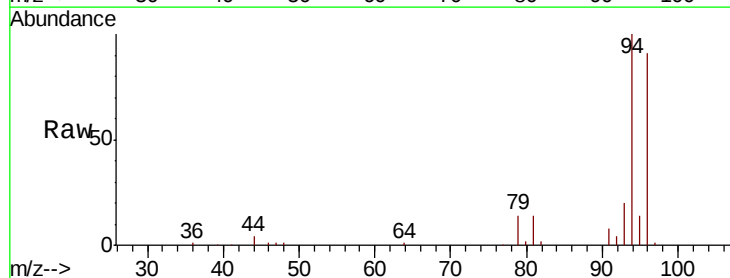
Acq: 10 Sep 2018 08:55

Tgt Ion: 94 Resp: 48299

Ion Ratio Lower Upper

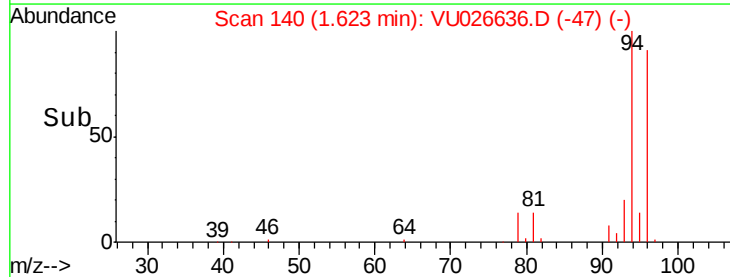
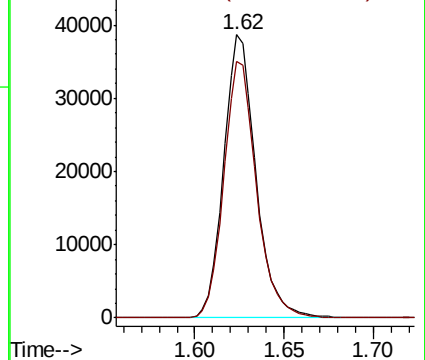
94 100

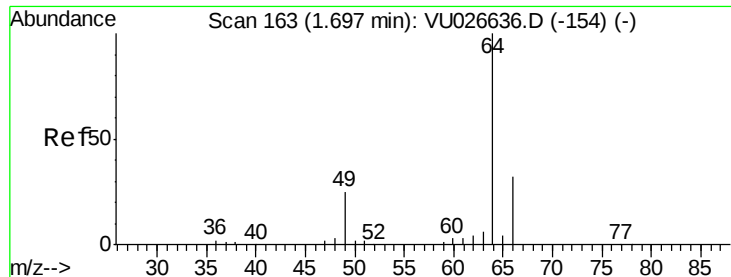
96 90.8 63.6 118.0



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 49.453 ug/L

RT: 1.70 min Scan# 163

Delta R.T. 0.00 min

Lab File: VU026636.D

Acq: 10 Sep 2018 08:55

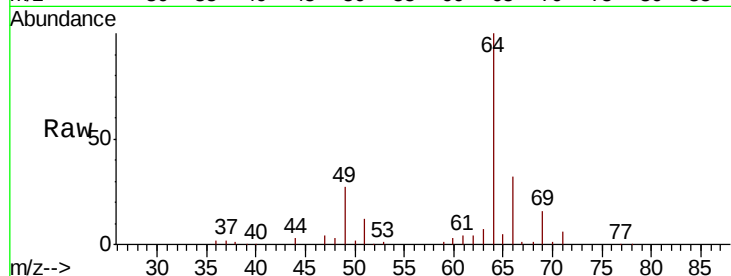
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 64 Resp: 50958

Ion Ratio Lower Upper

64 100

66 32.0 22.4 41.6



Abundance Ion 64.00 (63.70 to 64.70): VU026636.D (-154) (-)

Ion 66.00 (65.70 to 66.70): VU026636.D (-154) (-)

1.70

40000

30000

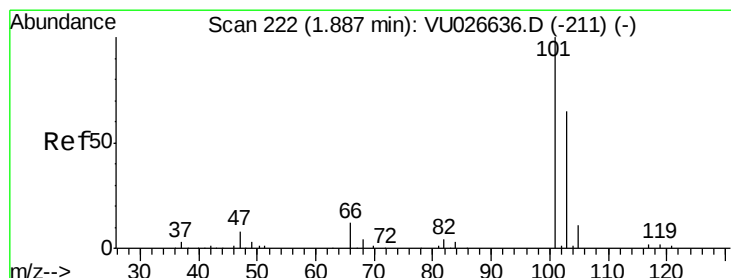
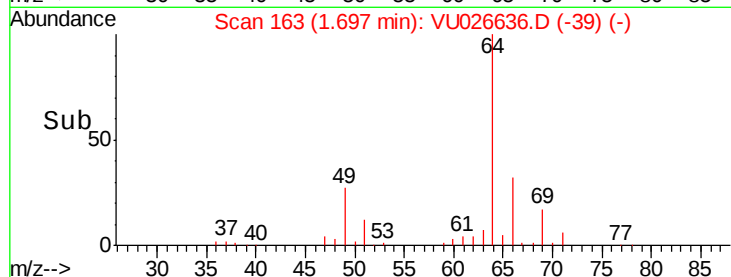
20000

10000

0

1.65 1.70 1.75

Time-->



#9

Trichlorofluoromethane

Concen: 50.608 ug/L

RT: 1.89 min Scan# 222

Delta R.T. 0.00 min

Lab File: VU026636.D

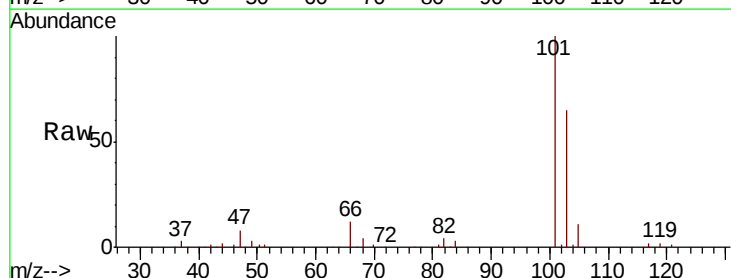
Acq: 10 Sep 2018 08:55

Tgt Ion:101 Resp: 106028

Ion Ratio Lower Upper

101 100

103 64.7 51.8 77.6



Abundance Ion 101.00 (100.70 to 101.70): VU026636.D (-211) (-)

Ion 103.00 (102.70 to 103.70): VU026636.D (-211) (-)

1.89

80000

60000

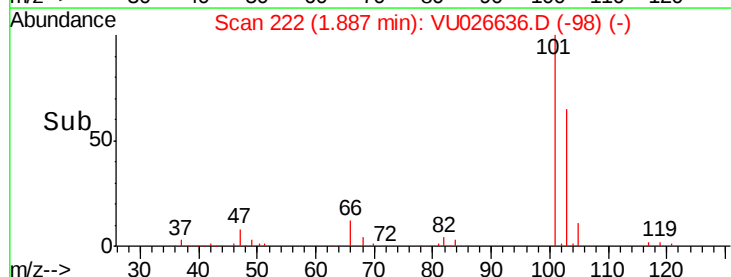
40000

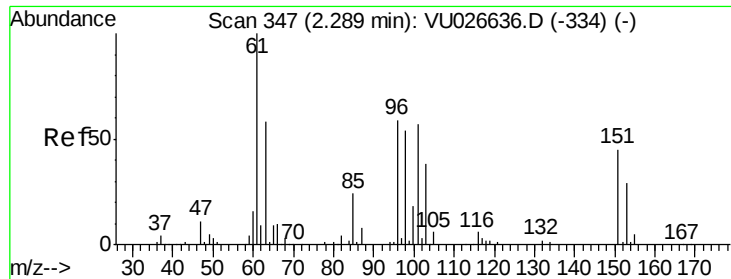
20000

0

1.85 1.90 1.95

Time-->





#10

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

Concen: 49.953 ug/L

RT: 2.29 min Scan# 347

Delta R.T. 0.00 min

Lab File: VU026636.D

Acq: 10 Sep 2018 08:55

Instrument :

MSVOA_U

ClientSampled :

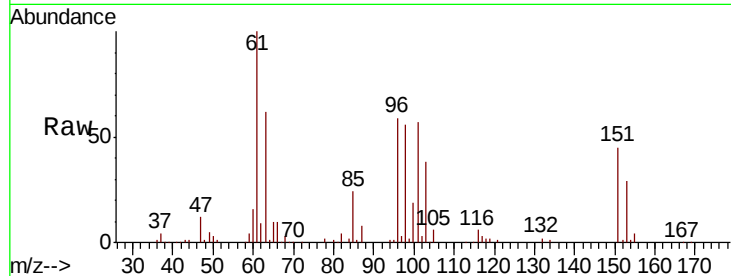
Tot Ion:101 Resp: 59600

Ion Ratio Lower Upper

101 100

85 42.6 34.1 51.1

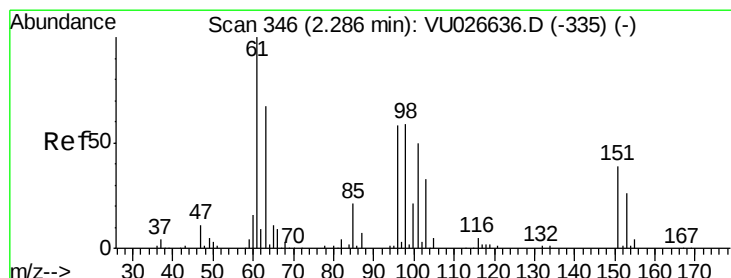
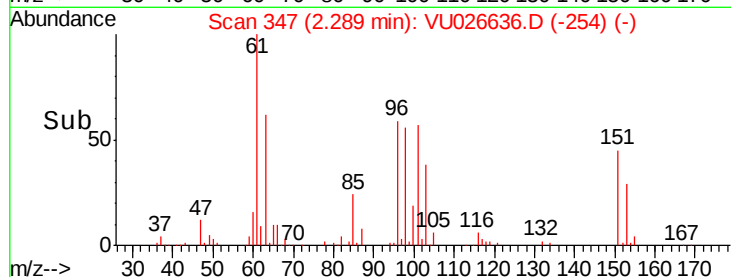
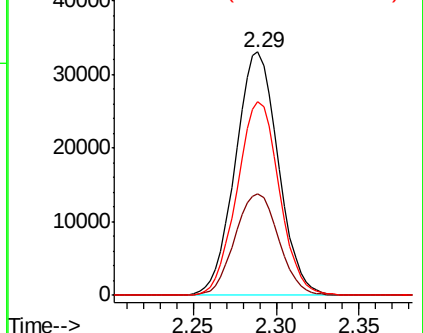
151 78.3 62.6 94.0



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: 50.202 ug/L

RT: 2.29 min Scan# 346

Delta R.T. 0.00 min

Lab File: VU026636.D

Acq: 10 Sep 2018 08:55

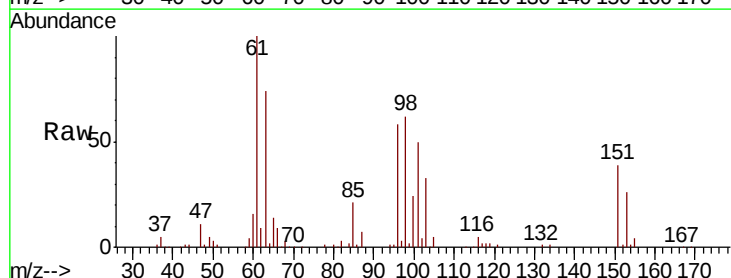
Tgt Ion: 96 Resp: 57521

Ion Ratio Lower Upper

96 100

61 172.9 121.0 224.8

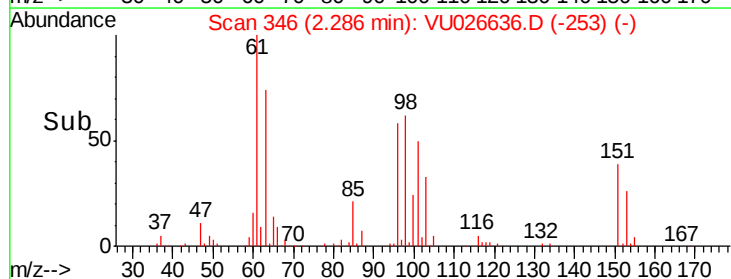
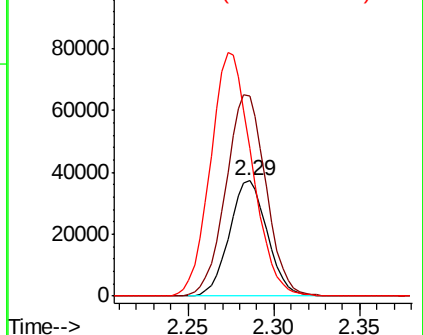
63 128.4 89.9 166.9

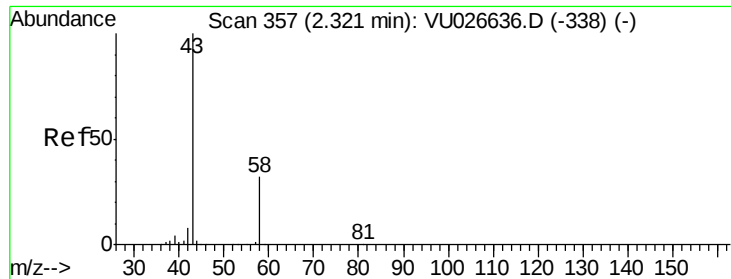


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 103.142 ug/L

RT: 2.32 min Scan# 357

Delta R.T. 0.00 min

Lab File: VU026636.D

Acq: 10 Sep 2018 08:55

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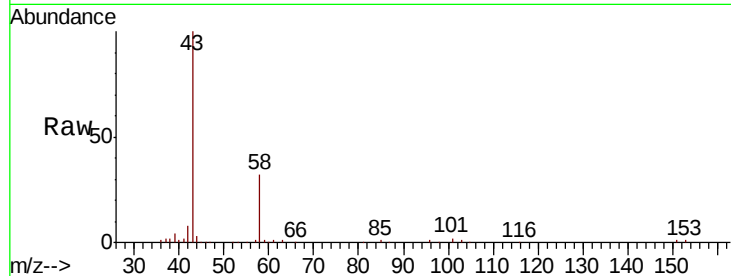
ClientSampleId :

Tot Ion: 43 Resp: 105860

Ion Ratio Lower Upper

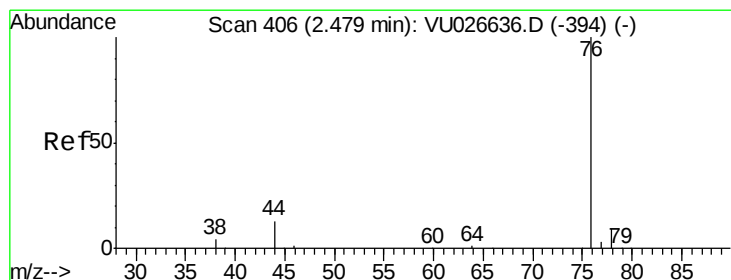
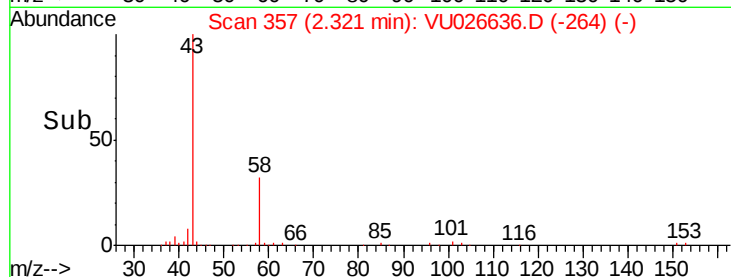
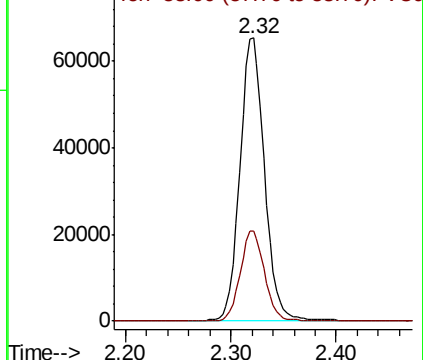
43 100

58 31.4 0.0 62.8



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#14

Carbon disulfide

Concen: 48.655 ug/L

RT: 2.48 min Scan# 406

Delta R.T. 0.00 min

Lab File: VU026636.D

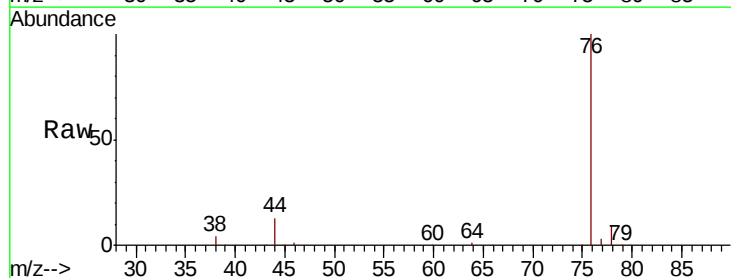
Acq: 10 Sep 2018 08:55

Tgt Ion: 76 Resp: 181062

Ion Ratio Lower Upper

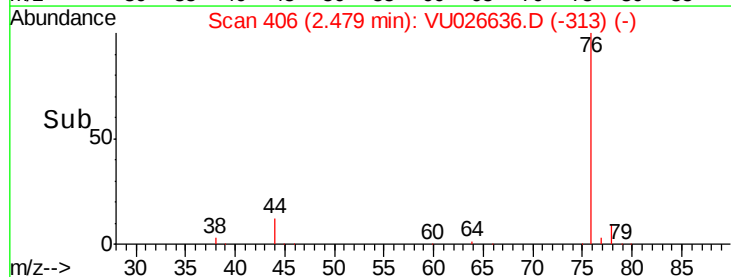
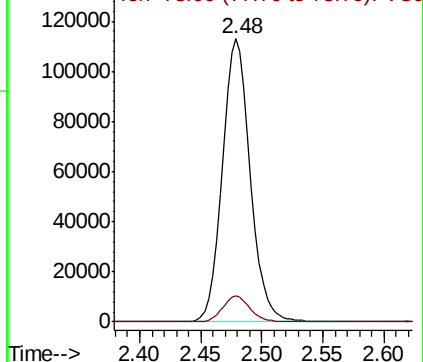
76 100

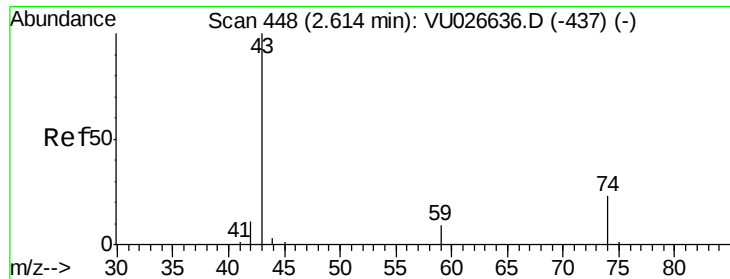
78 9.3 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0

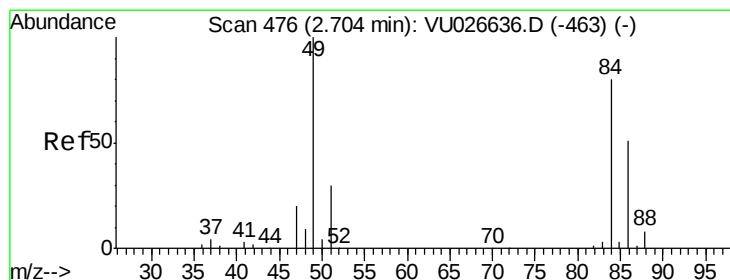
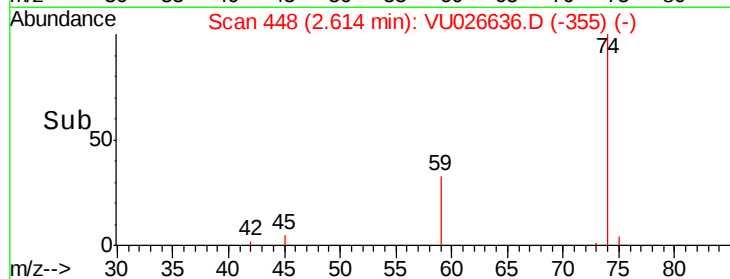
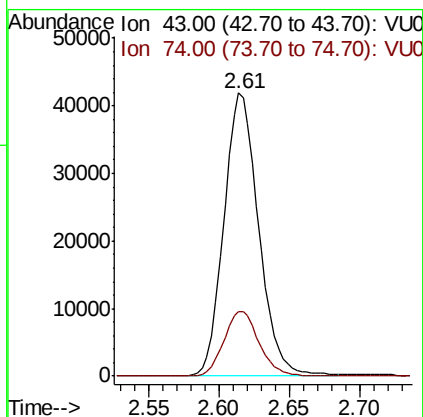
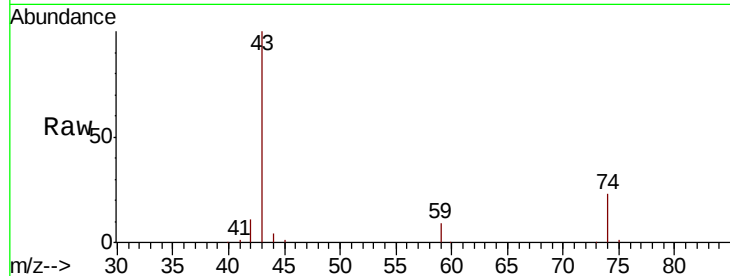




#15
Methyl Acetate
Concen: 49.363 ug/L
RT: 2.61 min Scan# 448
Delta R.T. 0.00 min
Lab File: VU026636.D
Acq: 10 Sep 2018 08:55

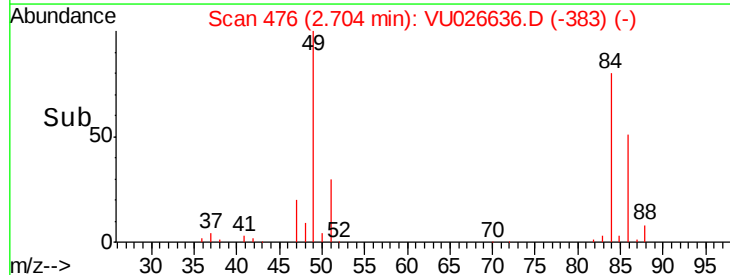
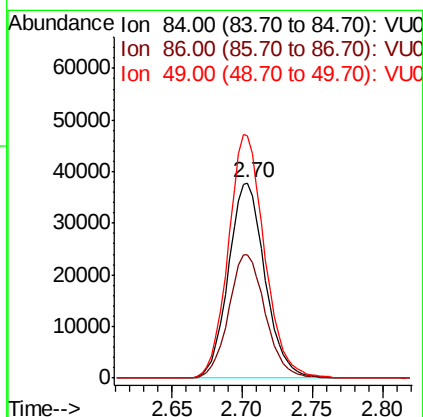
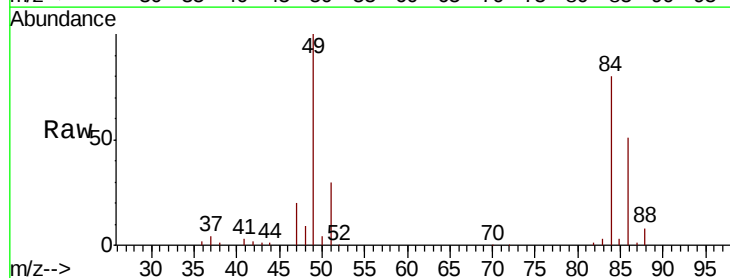
Instrument :
MSVOA_U
ClientSampleId :

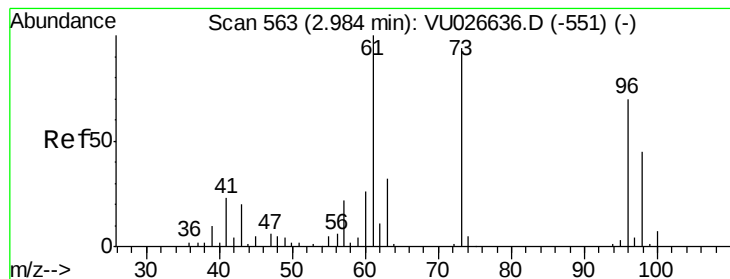
Tot Ion: 43 Resp: 72278
Ion Ratio Lower Upper
43 100
74 23.1 18.5 27.7



#16
Methylene chloride
Concen: 50.653 ug/L
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU026636.D
Acq: 10 Sep 2018 08:55

Tgt Ion: 84 Resp: 68494
Ion Ratio Lower Upper
84 100
86 63.0 44.1 81.9
49 124.5 87.2 161.9





#17

trans-1,2-Dichloroethene

Concen: 50.200 ug/L

RT: 2.98 min Scan# 563

Delta R.T. 0.00 min

Lab File: VU026636.D

Acq: 10 Sep 2018 08:55

Instrument :

MSVOA_U

ClientSampleId :

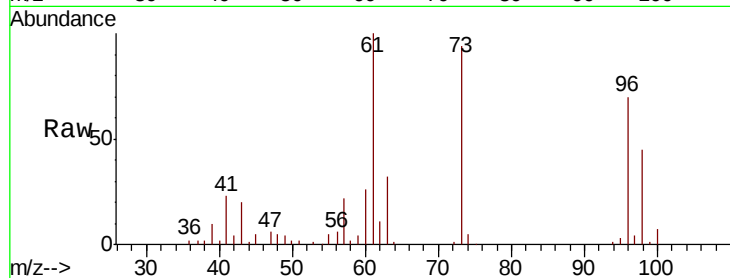
Tot Ion: 96 Resp: 60946

Ion Ratio Lower Upper

96 100

61 142.4 99.7 185.1

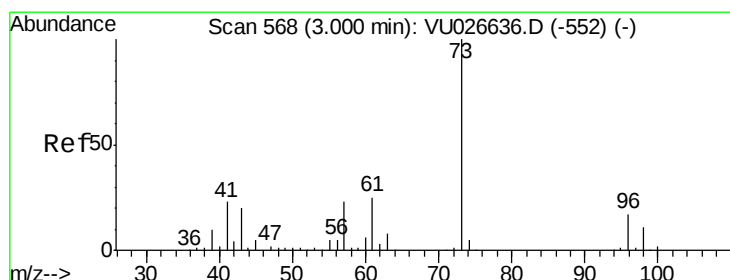
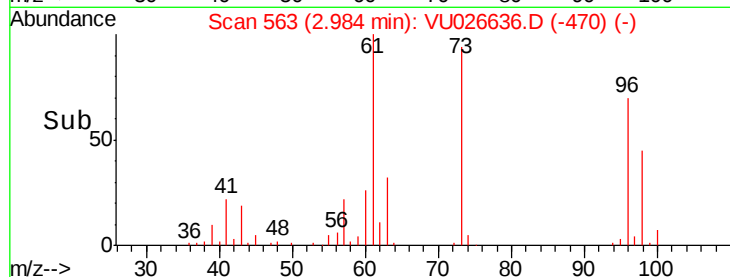
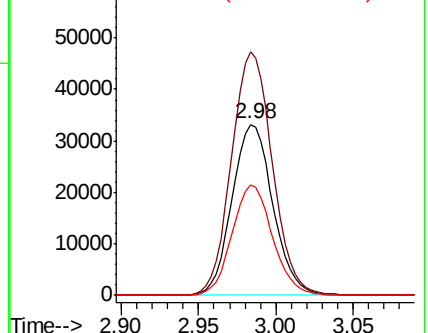
98 64.4 45.1 83.7



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: 50.819 ug/L

RT: 3.00 min Scan# 568

Delta R.T. 0.00 min

Lab File: VU026636.D

Acq: 10 Sep 2018 08:55

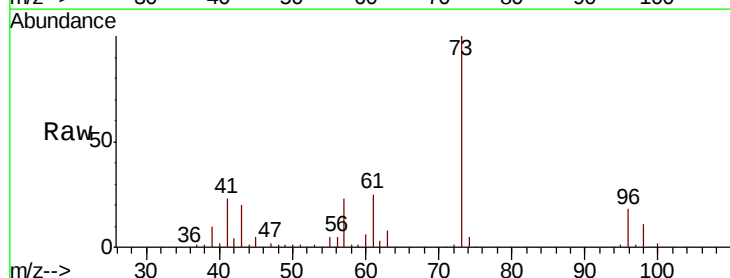
Tgt Ion: 73 Resp: 190113

Ion Ratio Lower Upper

73 100

43 20.0 16.0 24.0

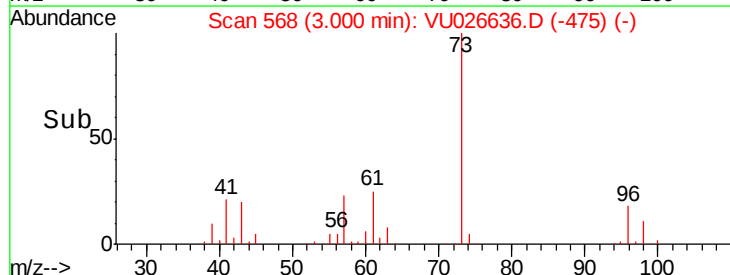
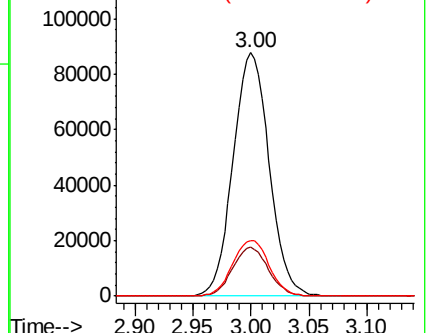
57 23.2 18.6 27.8

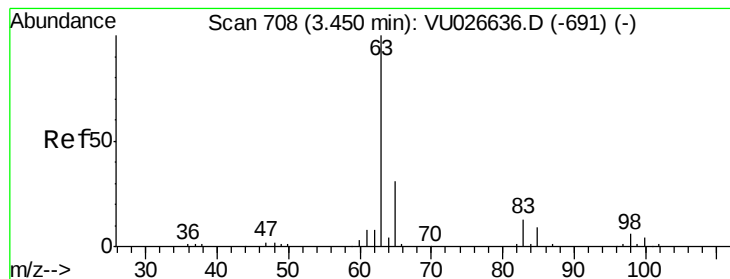


Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 50.849 ug/L

RT: 3.45 min Scan# 708

Delta R.T. 0.00 min

Lab File: VU026636.D

Acq: 10 Sep 2018 08:55

Instrument :

MSVOA_U

ClientSampleId :

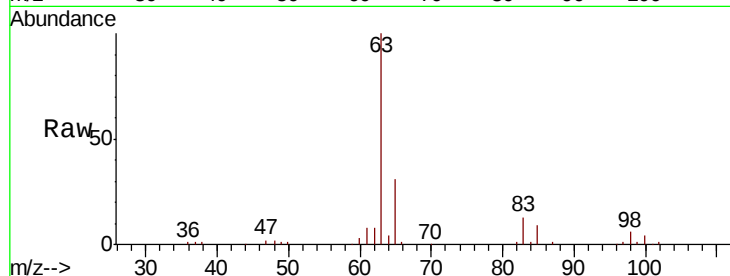
Tot Ion: 63 Resp: 119728

Ion Ratio Lower Upper

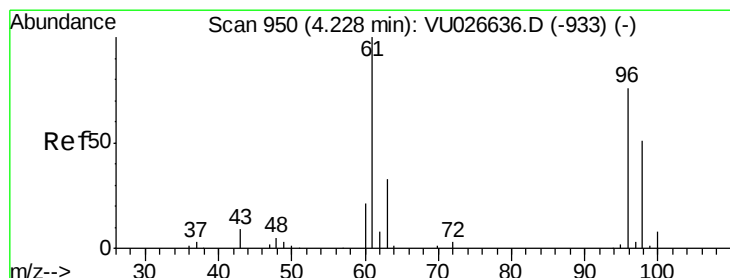
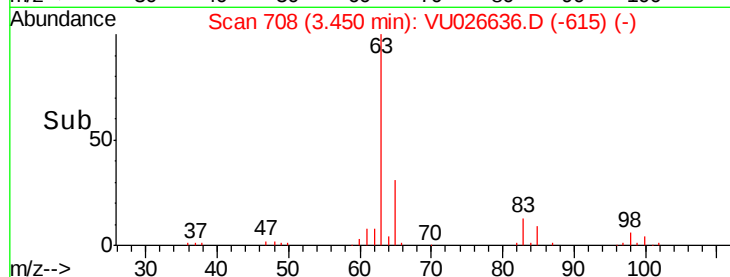
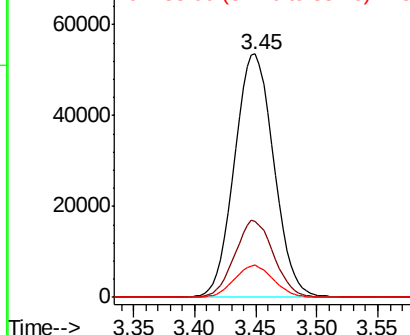
63 100

65 31.3 21.9 40.7

83 13.2 9.2 17.2



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: 50.100 ug/L

RT: 4.23 min Scan# 950

Delta R.T. 0.00 min

Lab File: VU026636.D

Acq: 10 Sep 2018 08:55

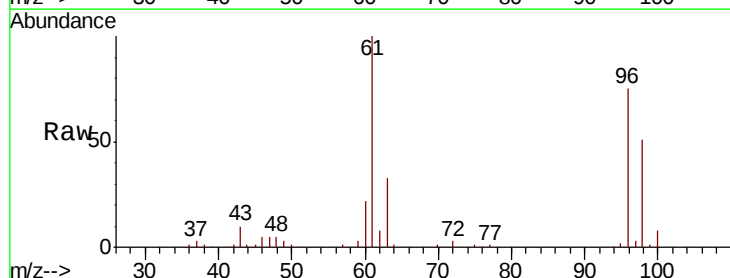
Tgt Ion: 96 Resp: 68511

Ion Ratio Lower Upper

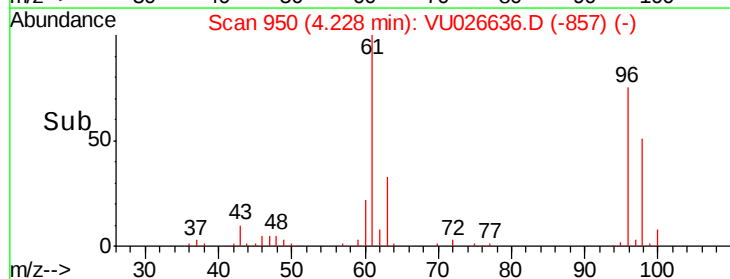
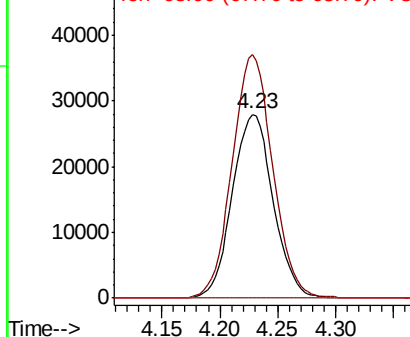
96 100

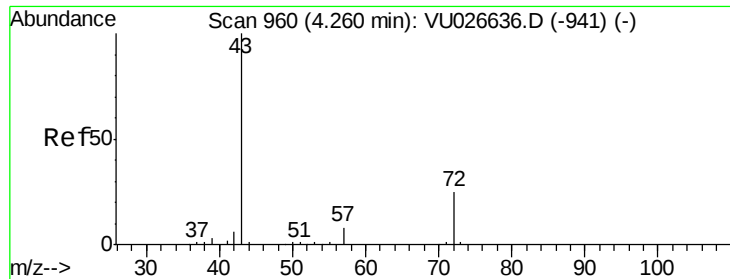
61 132.7 92.9 172.5

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: 103.549 ug/L

RT: 4.26 min Scan# 960

Delta R.T. 0.00 min

Lab File: VU026636.D

Acq: 10 Sep 2018 08:55

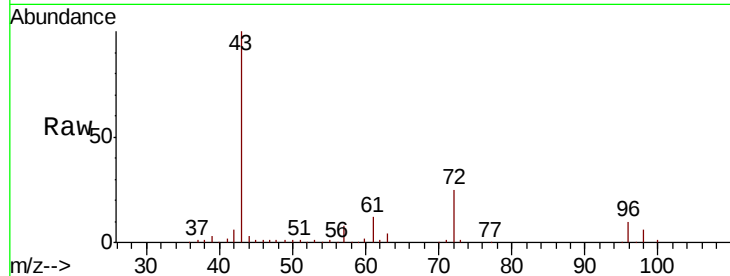
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 121684

Ion Ratio Lower Upper

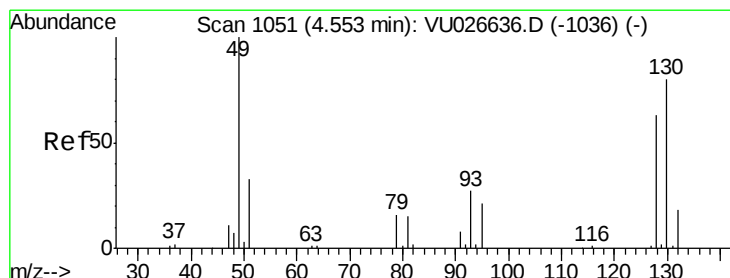
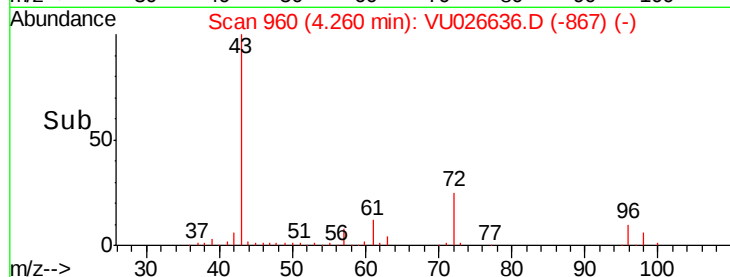
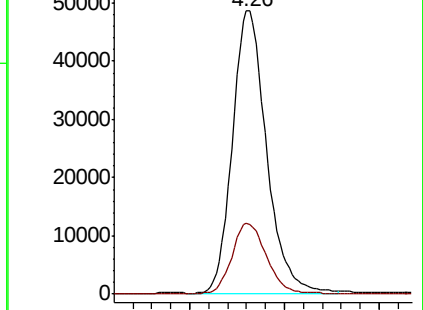
43 100

72 25.7 12.9 38.6



Abundance Ion 43.00 (42.70 to 43.70): VU026636.D (-941) (-)

Ion 72.00 (71.70 to 72.70): VU026636.D (-941) (-)



#23

Bromochloromethane

Concen: 51.418 ug/L

RT: 4.55 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VU026636.D

Acq: 10 Sep 2018 08:55

Tgt Ion:128 Resp: 35963

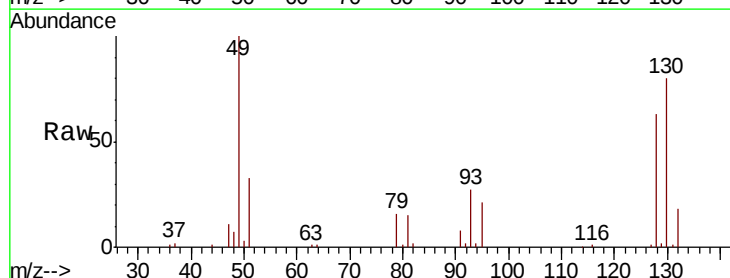
Ion Ratio Lower Upper

128 100

49 159.6 111.7 207.5

130 127.1 89.0 165.2

51 52.5 42.0 63.0

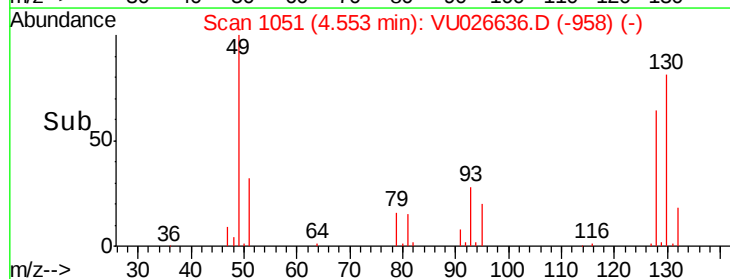
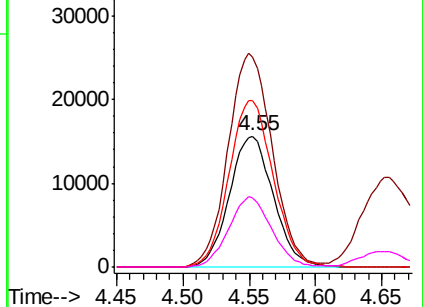


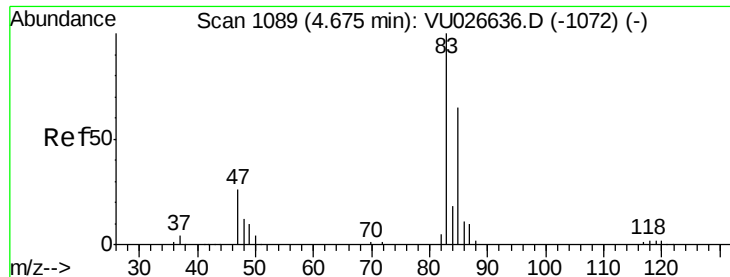
Abundance Ion 128.00 (127.70 to 128.70): VU026636.D (-1036) (-)

Ion 49.00 (48.70 to 49.70): VU026636.D (-1036) (-)

Ion 130.00 (129.70 to 130.70): VU026636.D (-1036) (-)

Ion 51.00 (50.70 to 51.70): VU026636.D (-1036) (-)

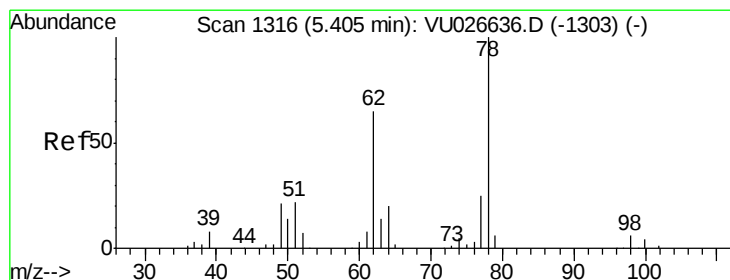
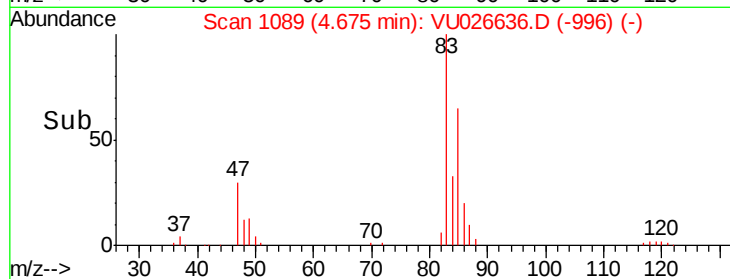
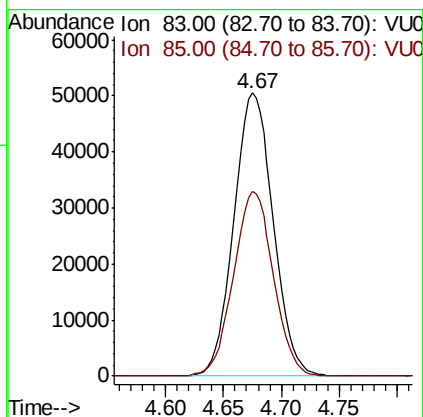
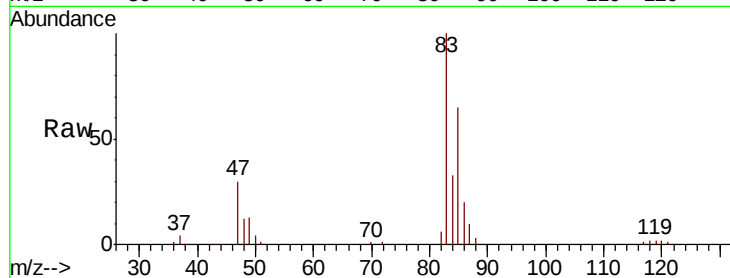




#25
Chloroform
Concen: 50.227 ug/L
RT: 4.67 min Scan# 1089
Delta R.T. 0.00 min
Lab File: VU026636.D
Acq: 10 Sep 2018 08:55

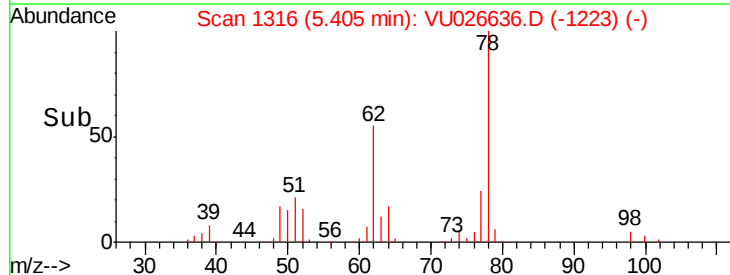
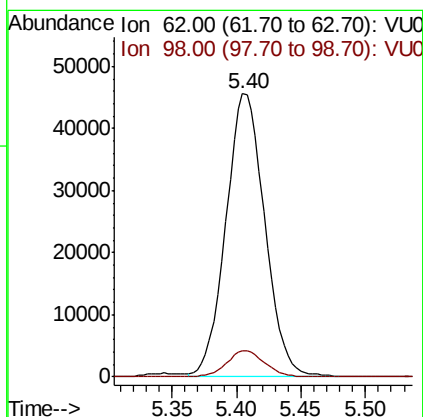
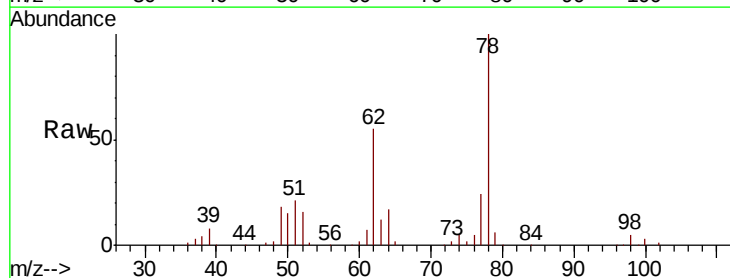
Instrument :
MSVOA_U
ClientSampleId :

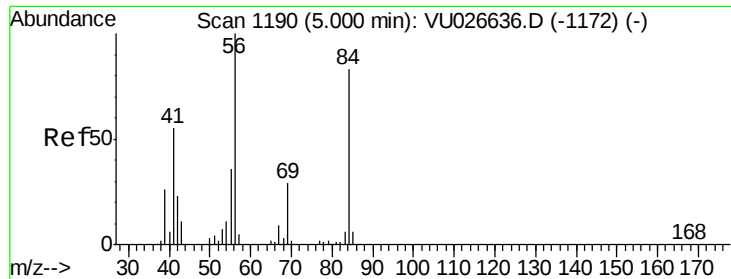
Tot Ion: 83 Resp: 118868
Ion Ratio Lower Upper
83 100
85 65.1 45.6 84.6



#27
1,2-Dichloroethane
Concen: 50.636 ug/L
RT: 5.40 min Scan# 1316
Delta R.T. 0.00 min
Lab File: VU026636.D
Acq: 10 Sep 2018 08:55

Tgt Ion: 62 Resp: 95157
Ion Ratio Lower Upper
62 100
98 9.2 7.4 11.0

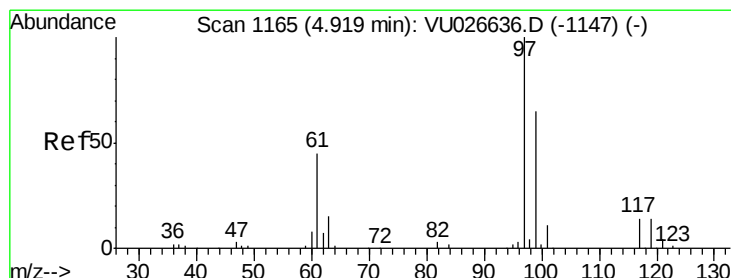
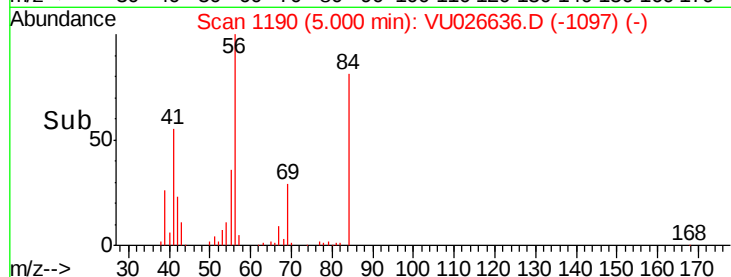
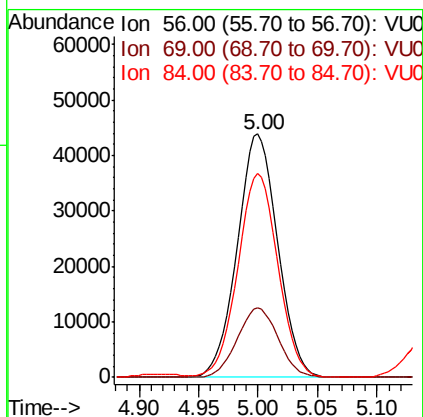
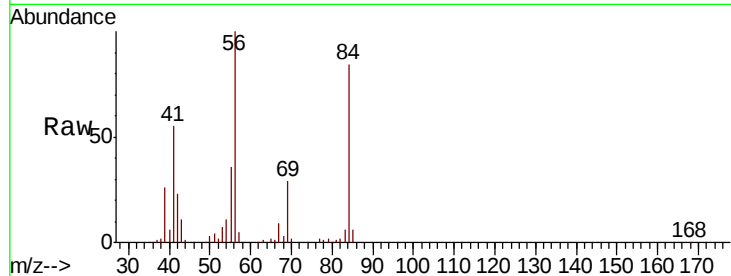




#29
Cyclohexane
Concen: 50.560 ug/L
RT: 5.00 min Scan# 1190
Delta R.T. 0.00 min
Lab File: VU026636.D
Acq: 10 Sep 2018 08:55

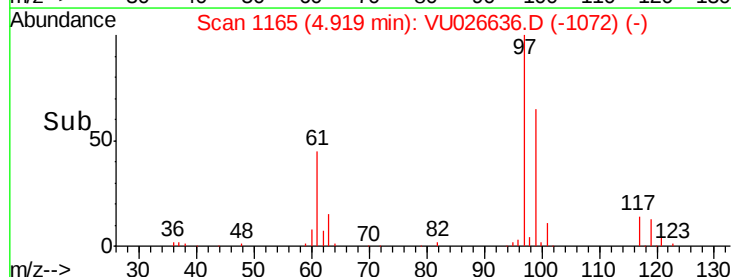
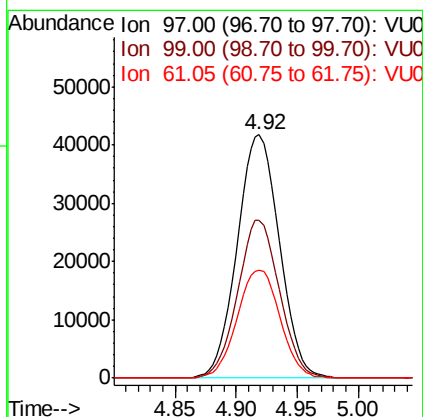
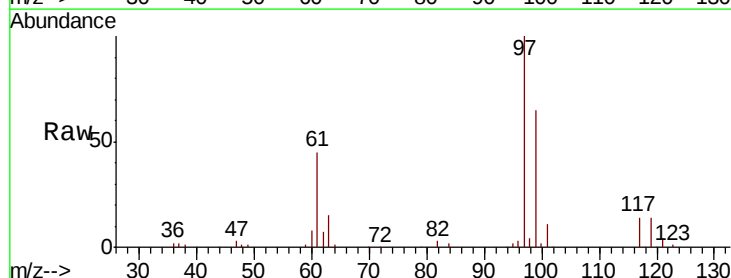
Instrument :
MSVOA_U
ClientSampled :

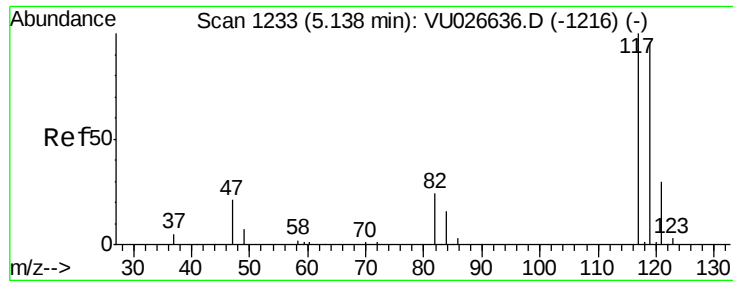
Tot Ion: 56 Resp: 103320
Ion Ratio Lower Upper
56 100
69 28.8 23.0 34.6
84 83.1 66.5 99.7



#30
1,1,1-Trichloroethane
Concen: 50.613 ug/L
RT: 4.92 min Scan# 1165
Delta R.T. 0.00 min
Lab File: VU026636.D
Acq: 10 Sep 2018 08:55

Tgt Ion: 97 Resp: 100031
Ion Ratio Lower Upper
97 100
99 64.4 51.5 77.3
61 45.2 36.2 54.2





#31

Carbon tetrachloride

Concen: 50.286 ug/L

RT: 5.14 min Scan# 1233

Delta R.T. 0.00 min

Lab File: VU026636.D

Acq: 10 Sep 2018 08:55

Instrument :

MSVOA_U

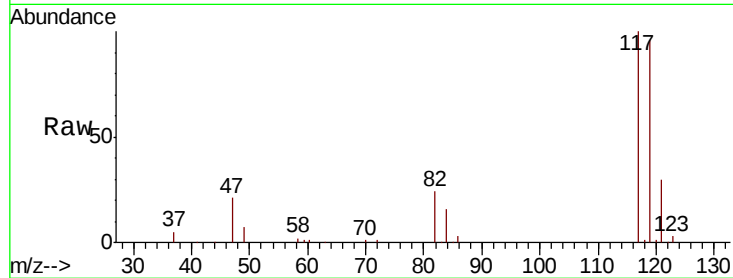
ClientSampleId :

Tot Ion:117 Resp: 89833

Ion Ratio Lower Upper

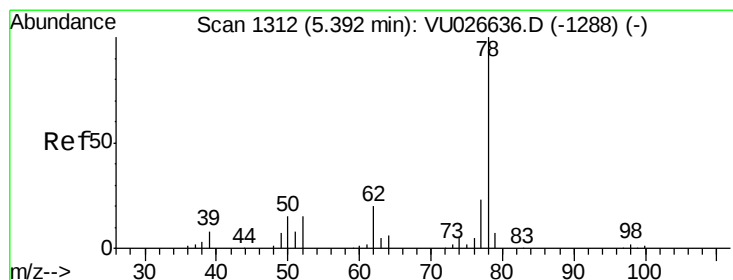
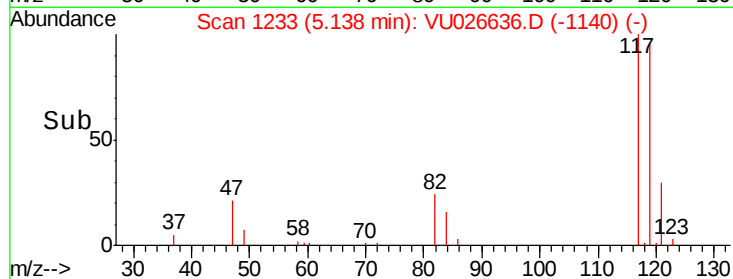
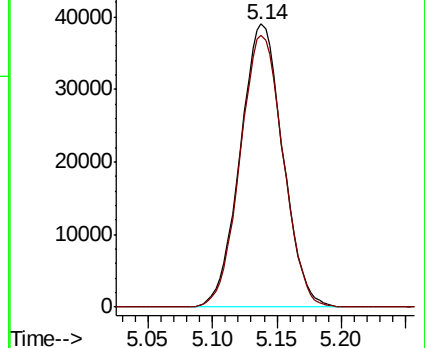
117 100

119 97.0 77.6 116.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 50.663 ug/L

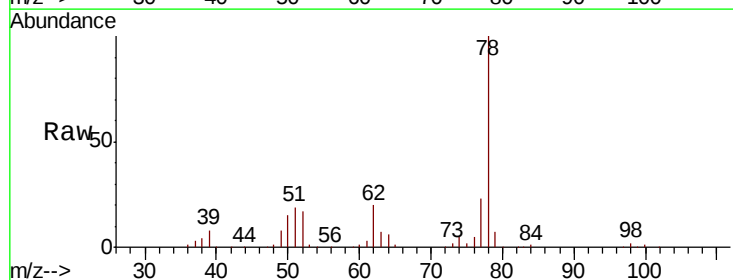
RT: 5.39 min Scan# 1312

Delta R.T. 0.00 min

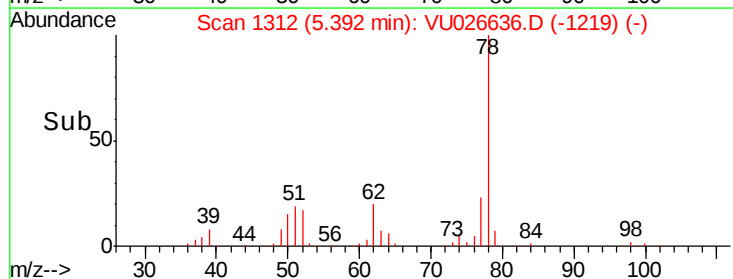
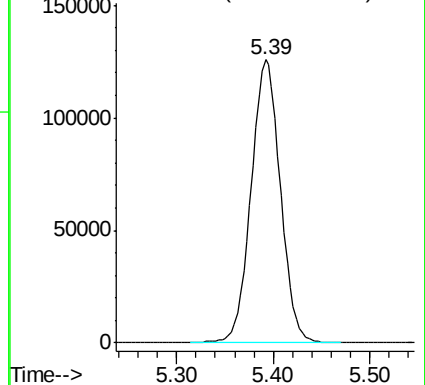
Lab File: VU026636.D

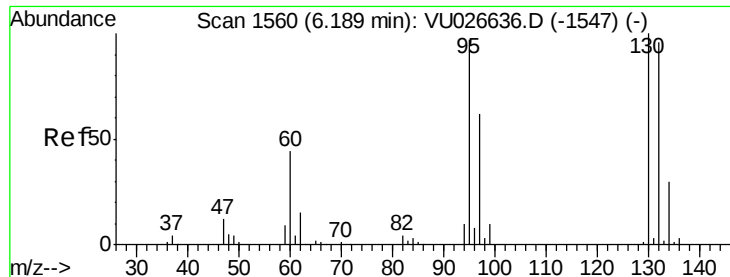
Acq: 10 Sep 2018 08:55

Tgt Ion: 78 Resp: 264681



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 49.598 ug/L

RT: 6.19 min Scan# 1560

Delta R.T. 0.00 min

Lab File: VU026636.D

Acq: 10 Sep 2018 08:55

Instrument :

MSVOA_U

ClientSampled :

Tot Ion: 95 Resp: 64405

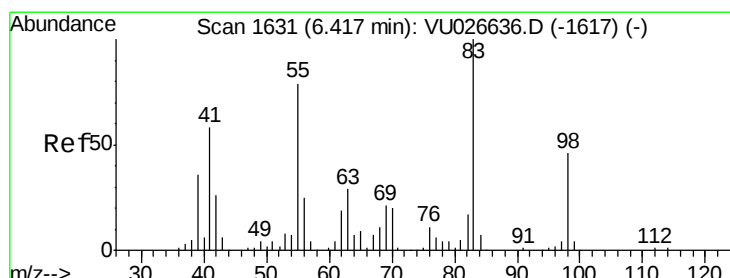
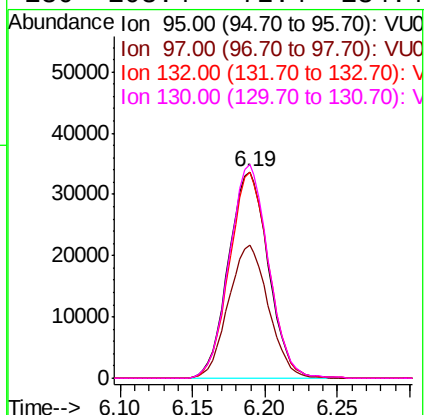
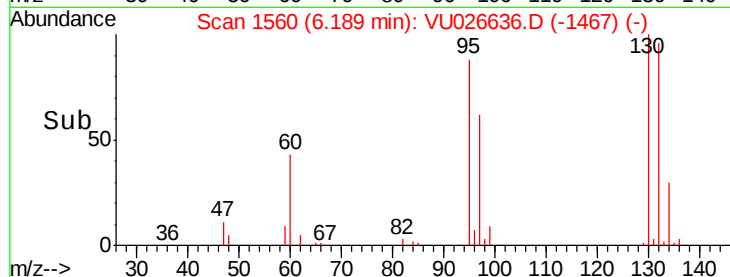
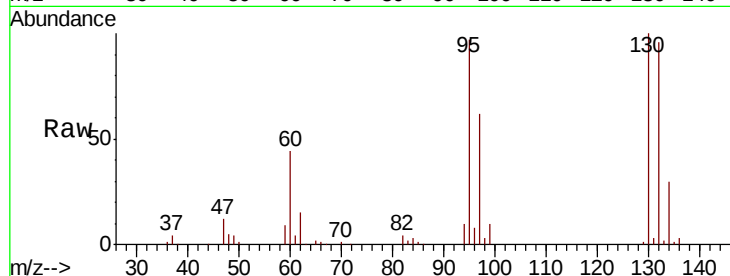
Ion Ratio Lower Upper

95 100

97 64.2 44.9 83.5

132 99.6 69.7 129.5

130 103.4 72.4 134.4



#35

Methylcyclohexane

Concen: 50.674 ug/L

RT: 6.42 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VU026636.D

Acq: 10 Sep 2018 08:55

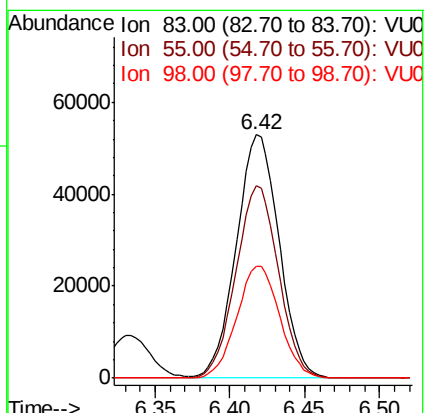
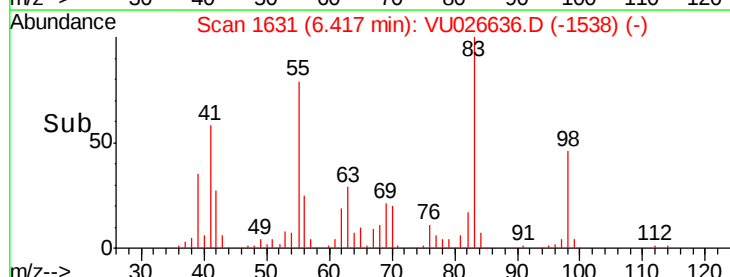
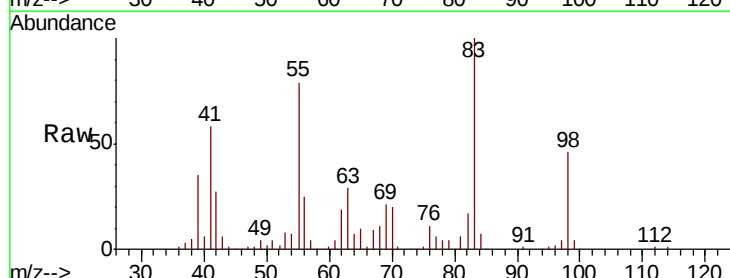
Tgt Ion: 83 Resp: 105328

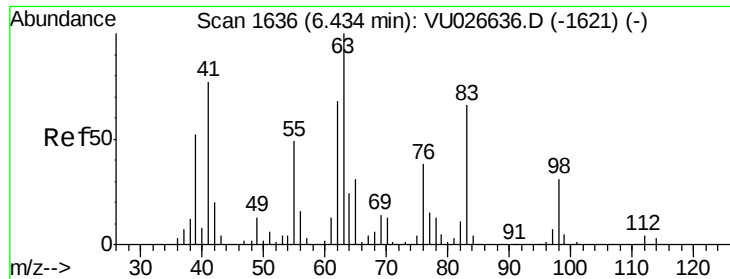
Ion Ratio Lower Upper

83 100

55 78.6 62.9 94.3

98 46.2 37.0 55.4

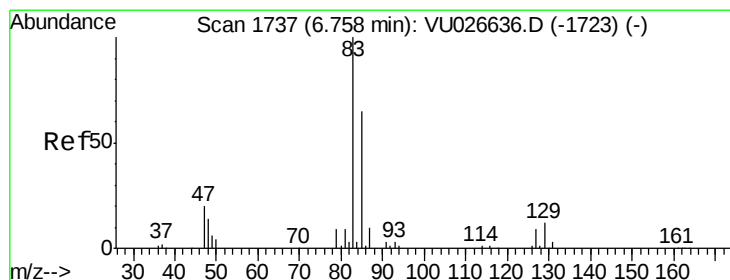
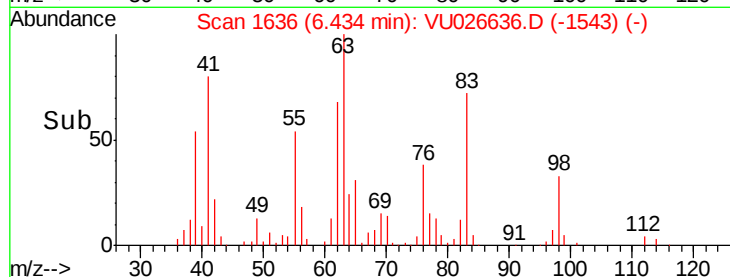
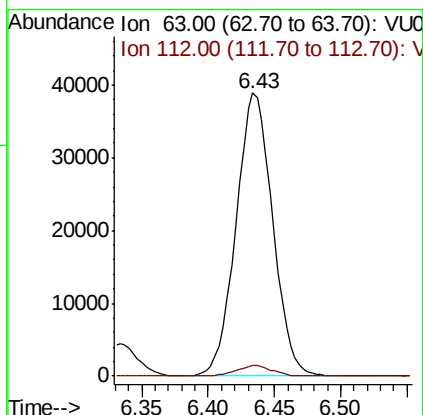
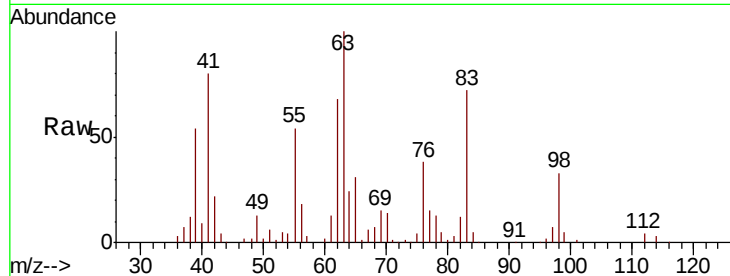




#37
 1,2-Dichloropropane
 Concen: 51.200 ug/L
 RT: 6.43 min Scan# 1636
 Delta R.T. 0.00 min
 Lab File: VU026636.D
 Acq: 10 Sep 2018 08:55

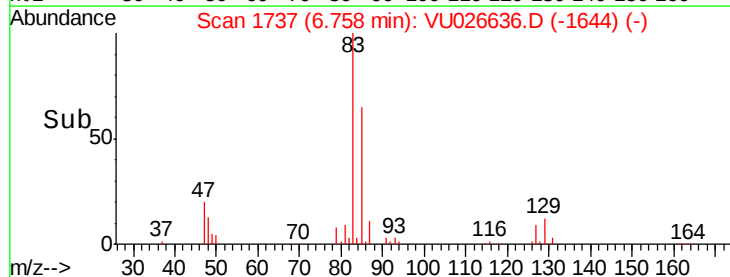
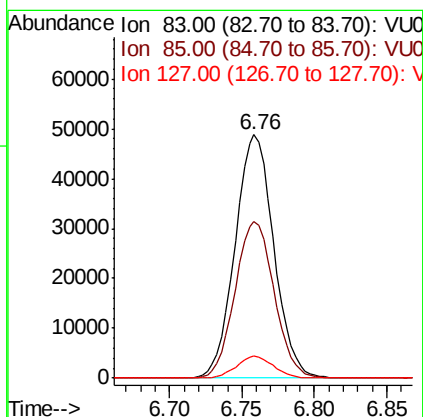
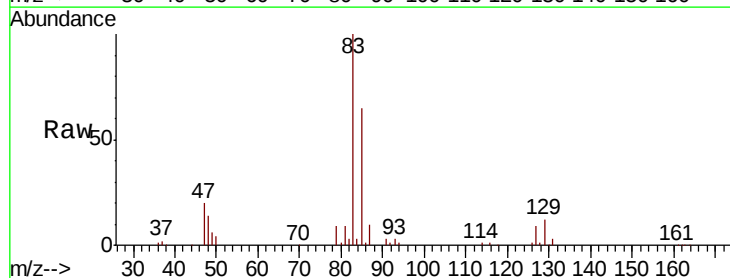
Instrument :
 MSVOA_U
 ClientSampleId :

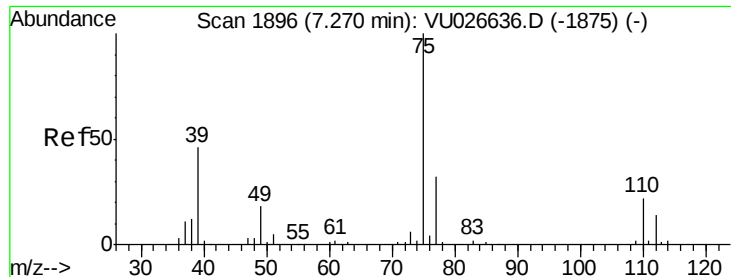
Tot Ion: 63 Resp: 74726
 Ion Ratio Lower Upper
 63 100
 112 3.6 2.9 4.3



#38
 Bromodichloromethane
 Concen: 50.634 ug/L
 RT: 6.76 min Scan# 1737
 Delta R.T. 0.00 min
 Lab File: VU026636.D
 Acq: 10 Sep 2018 08:55

Tgt Ion: 83 Resp: 90563
 Ion Ratio Lower Upper
 83 100
 85 64.5 45.1 83.9
 127 9.0 7.2 10.8

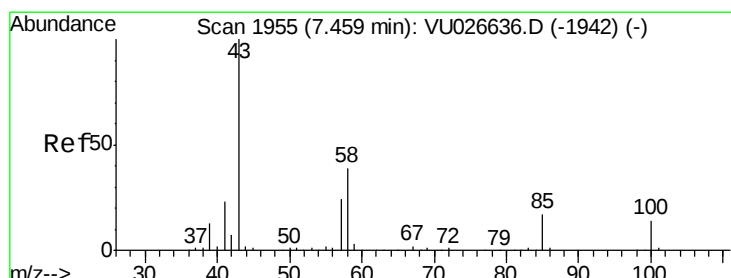
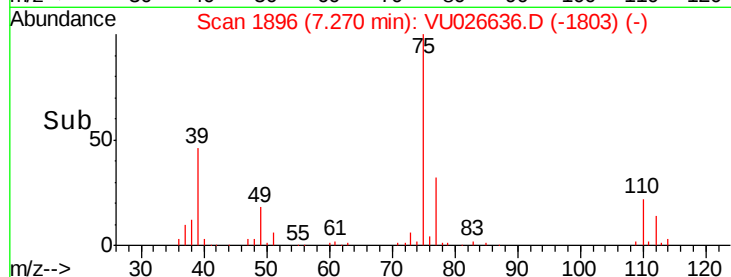
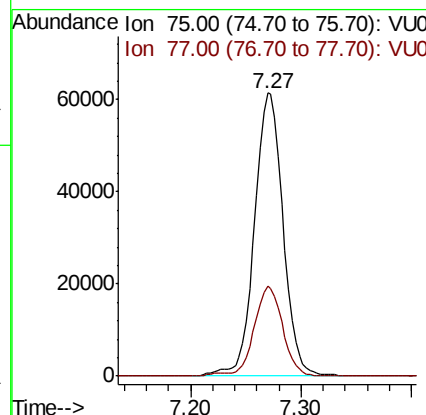
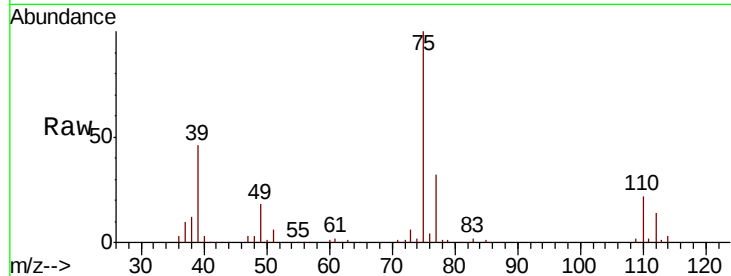




#39
 cis-1,3-Dichloropropene
 Concen: 51.083 ug/L
 RT: 7.27 min Scan# 1896
 Delta R.T. 0.00 min
 Lab File: VU026636.D
 Acq: 10 Sep 2018 08:55

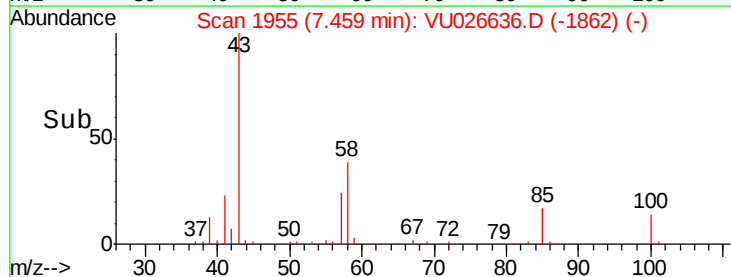
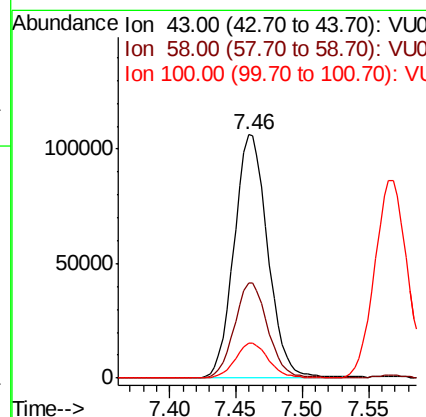
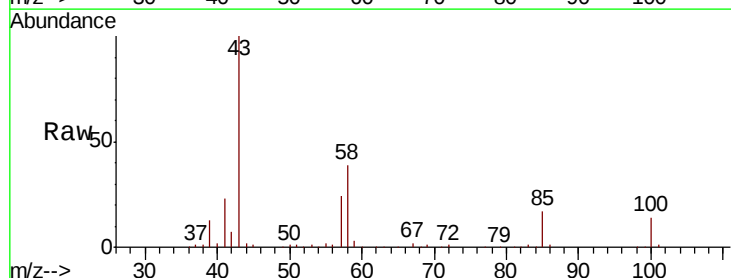
Instrument :
 MSVOA_U
 ClientSampleId :

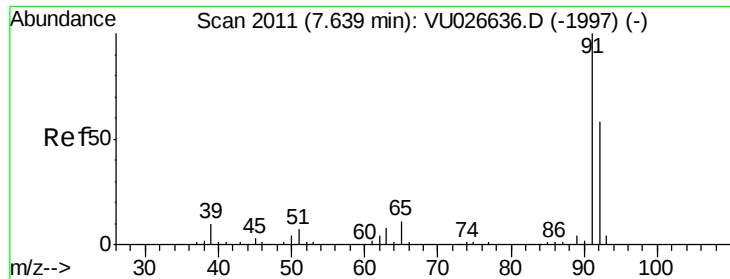
Tot Ion: 75 Resp: 110324
 Ion Ratio Lower Upper
 75 100
 77 31.8 22.3 41.3



#40
 4-Methyl-2-pentanone
 Concen: 100.742 ug/L
 RT: 7.46 min Scan# 1955
 Delta R.T. 0.00 min
 Lab File: VU026636.D
 Acq: 10 Sep 2018 08:55

Tgt Ion: 43 Resp: 187552
 Ion Ratio Lower Upper
 43 100
 58 38.9 31.1 46.7
 100 14.1 11.3 16.9





#42

Toluene

Concen: 51.337 ug/L

RT: 7.64 min Scan# 2011

Delta R.T. 0.00 min

Lab File: VU026636.D

Acq: 10 Sep 2018 08:55

Instrument :

MSVOA_U

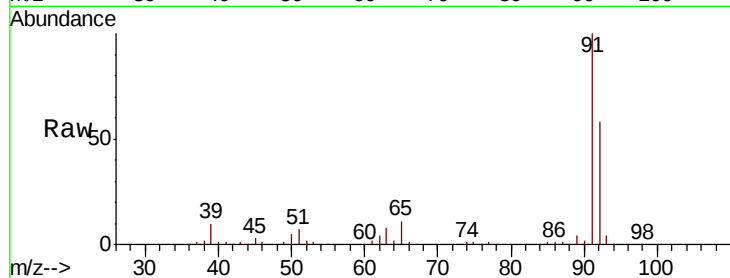
ClientSampleId :

Tot Ion: 91 Resp: 277985

Ion Ratio Lower Upper

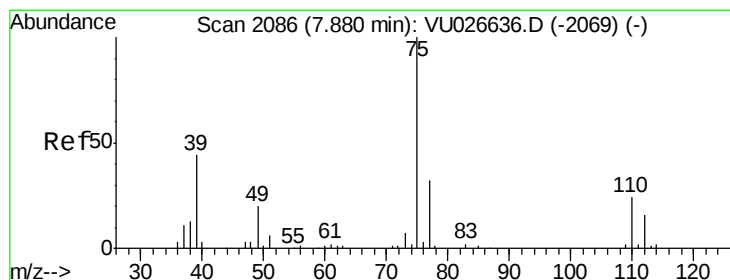
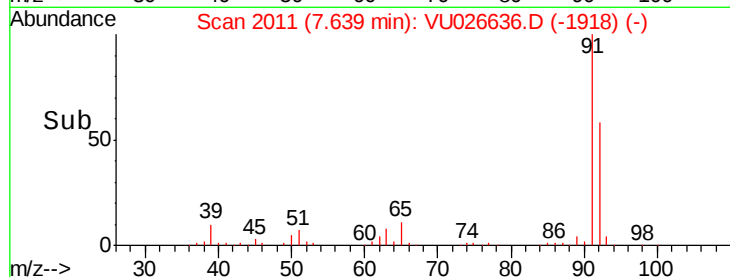
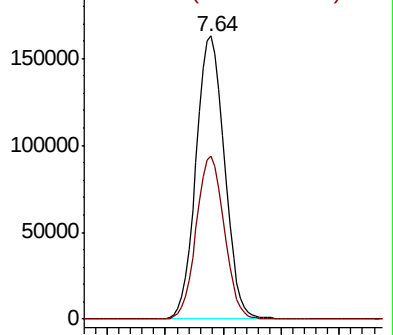
91 100

92 57.6 40.3 74.9



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0



#44

trans-1,3-Dichloropropene

Concen: 51.065 ug/L

RT: 7.88 min Scan# 2086

Delta R.T. 0.00 min

Lab File: VU026636.D

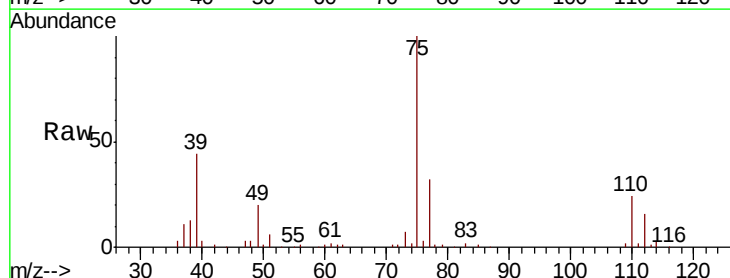
Acq: 10 Sep 2018 08:55

Tgt Ion: 75 Resp: 102599

Ion Ratio Lower Upper

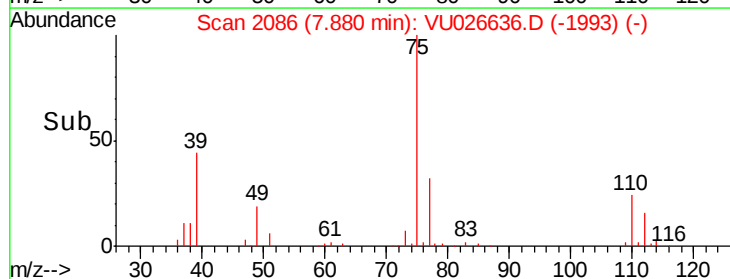
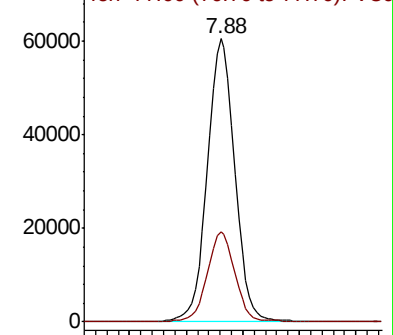
75 100

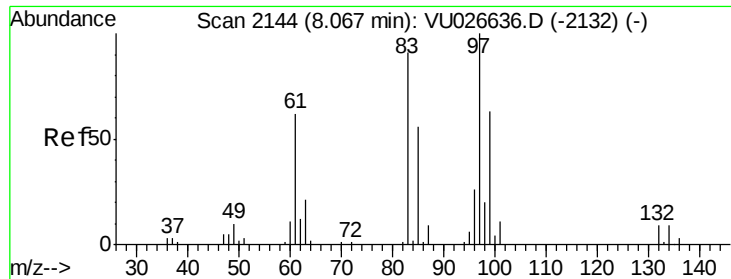
77 32.0 22.4 41.6



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

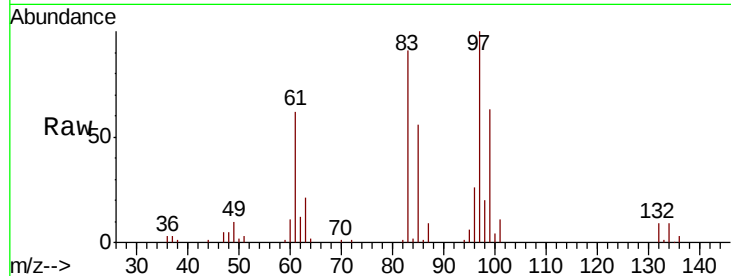




#45
1,1,2-Trichloroethane
Concen: 50.482 ug/L
RT: 8.07 min Scan# 2144
Delta R.T. 0.00 min
Lab File: VU026636.D
Acq: 10 Sep 2018 08:55

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:	97	Resp:	65354
Ion	Ratio	Lower	Upper
97	100		
99	63.2	44.2	82.2
83	91.2	63.8	118.6
85	56.3	39.4	73.2



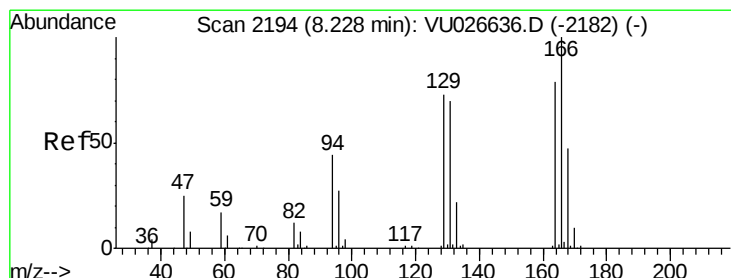
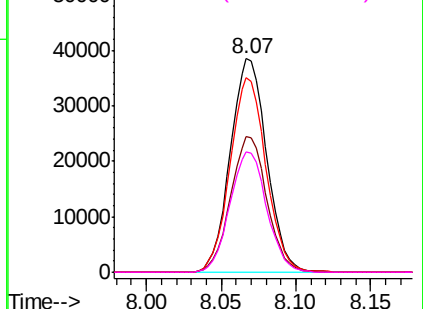
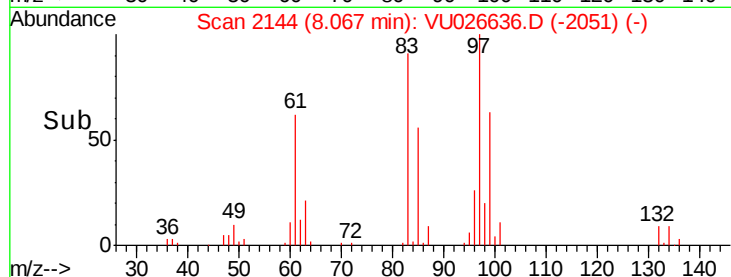
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

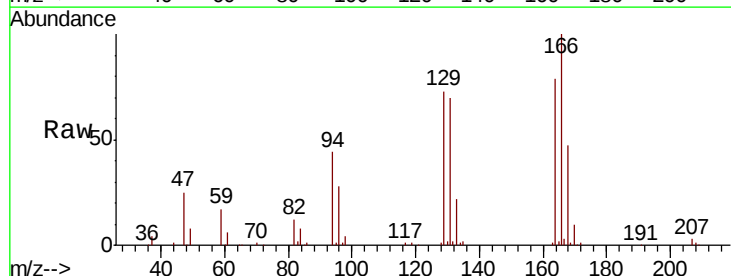
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
Tetrachloroethene
Concen: 49.683 ug/L
RT: 8.23 min Scan# 2194
Delta R.T. 0.00 min
Lab File: VU026636.D
Acq: 10 Sep 2018 08:55

Tgt Ion:	164	Resp:	54220
Ion	Ratio	Lower	Upper
164	100		
129	92.9	65.0	120.8
131	89.3	62.5	116.1
166	127.1	89.0	165.2



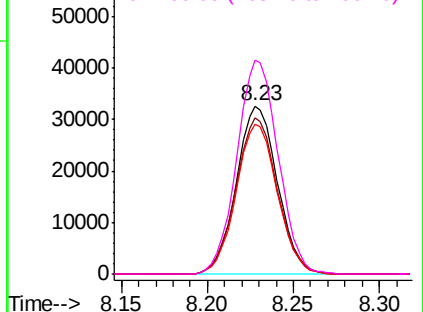
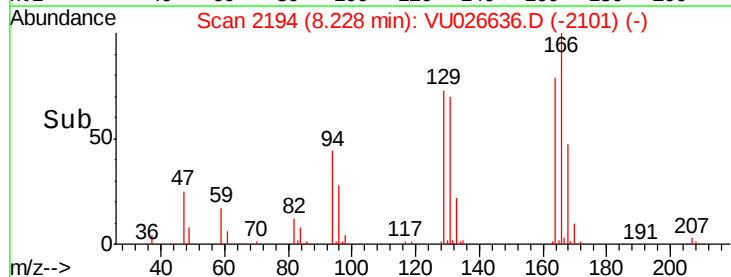
Abundance

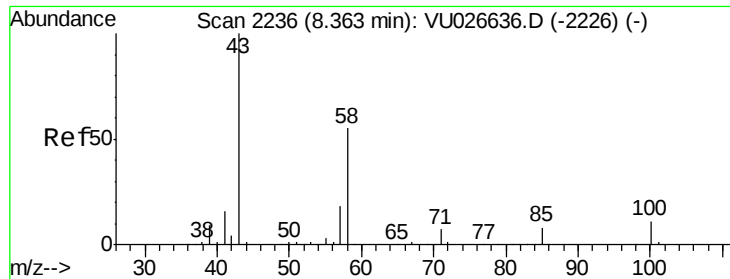
Ion 164.00 (163.70 to 164.70): V

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

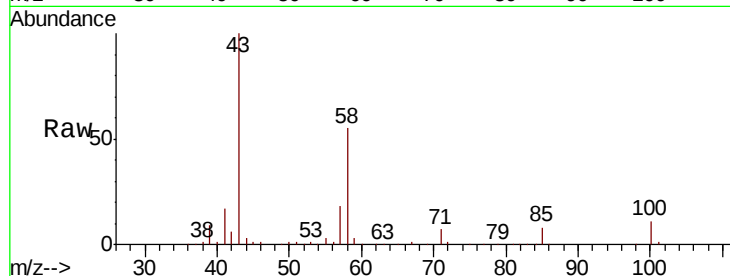




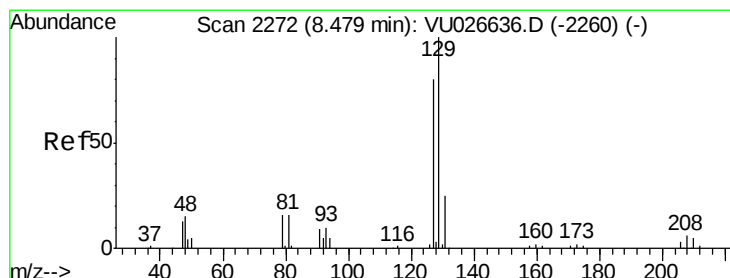
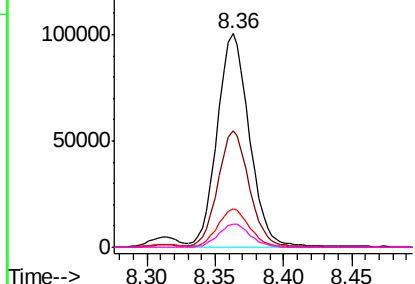
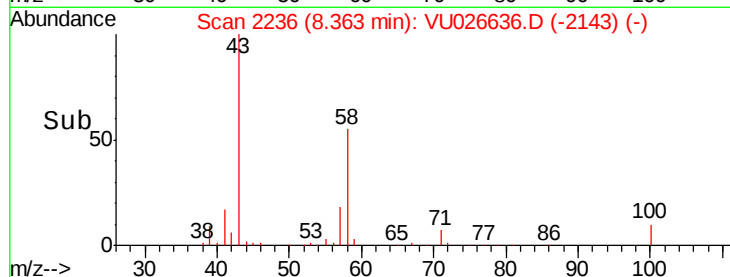
#48
2-Hexanone
Concen: 104.254 ug/L
RT: 8.36 min Scan# 2236
Delta R.T. 0.00 min
Lab File: VU026636.D
Acq: 10 Sep 2018 08:55

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 163868
Ion Ratio Lower Upper
43 100
58 52.8 42.2 63.4
57 18.0 14.4 21.6
100 10.9 8.7 13.1

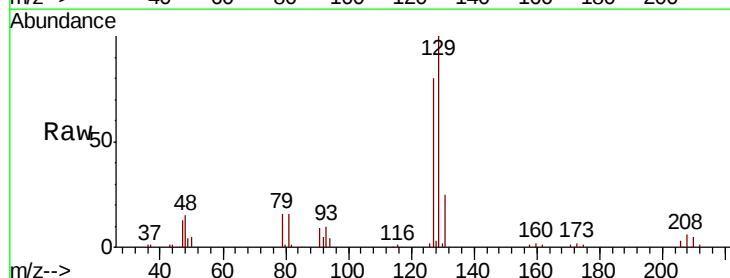


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

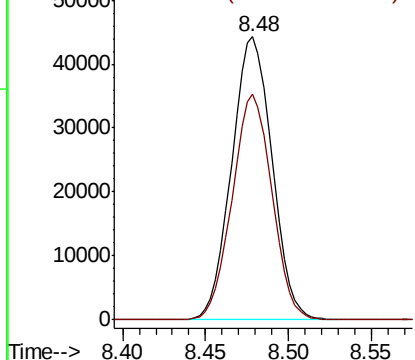
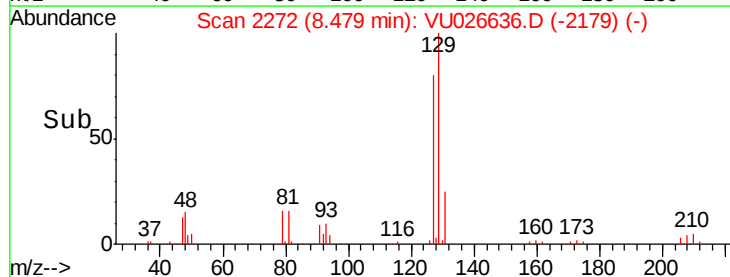


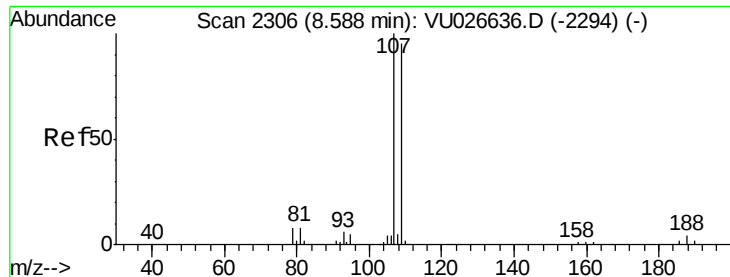
#49
Dibromochloromethane
Concen: 50.379 ug/L
RT: 8.48 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VU026636.D
Acq: 10 Sep 2018 08:55

Tgt Ion: 129 Resp: 75386
Ion Ratio Lower Upper
129 100
127 79.7 55.8 103.6



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





#50

1,2-Dibromoethane

Concen: 50.242 ug/L

RT: 8.59 min Scan# 2306

Delta R.T. 0.00 min

Lab File: VU026636.D

Acq: 10 Sep 2018 08:55

Instrument :
MSVOA_U
ClientSampled :

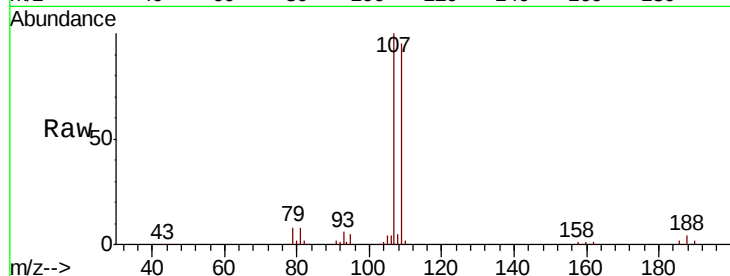
Tot Ion:107 Resp: 69580

Ion Ratio Lower Upper

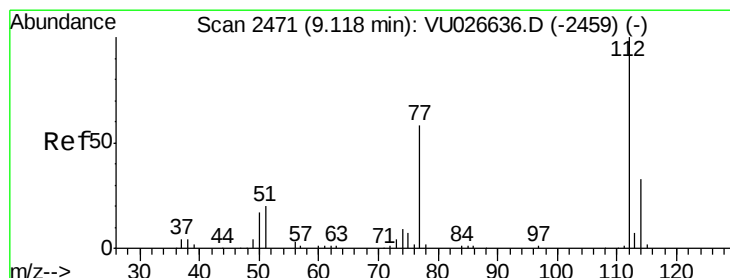
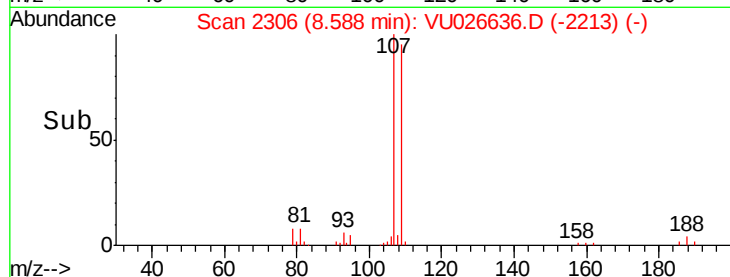
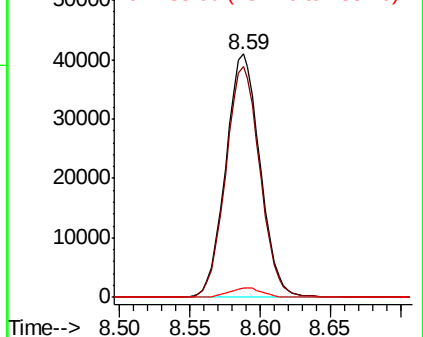
107 100

109 94.9 66.4 123.4

188 3.7 3.0 4.4



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: 49.964 ug/L

RT: 9.12 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VU026636.D

Acq: 10 Sep 2018 08:55

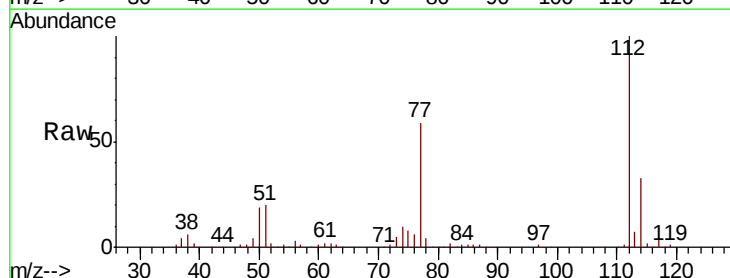
Tgt Ion:112 Resp: 177645

Ion Ratio Lower Upper

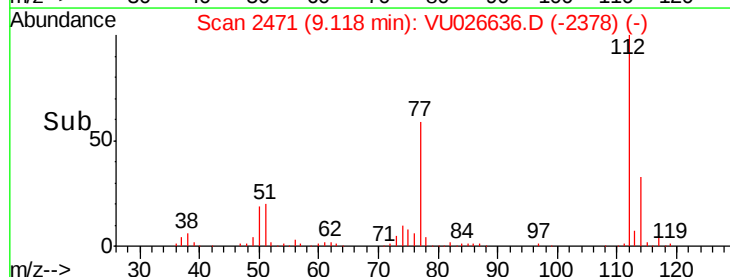
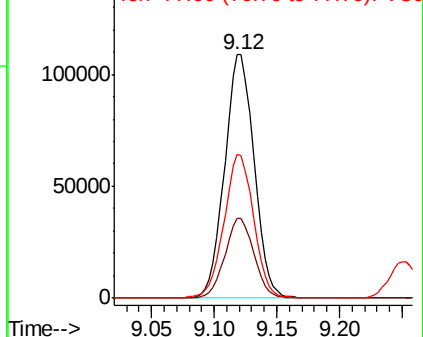
112 100

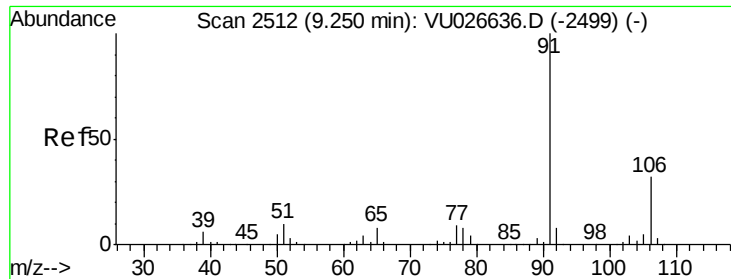
114 32.7 22.9 42.5

77 59.0 47.2 70.8



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): V





#52

Ethylbenzene

Concen: 51.241 ug/L

RT: 9.25 min Scan# 2512

Delta R.T. 0.00 min

Lab File: VU026636.D

Acq: 10 Sep 2018 08:55

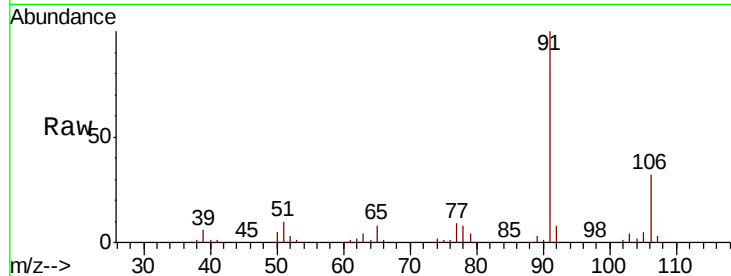
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 300074

Ion Ratio Lower Upper

91 100

106 31.6 22.1 41.1



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V

200000

150000

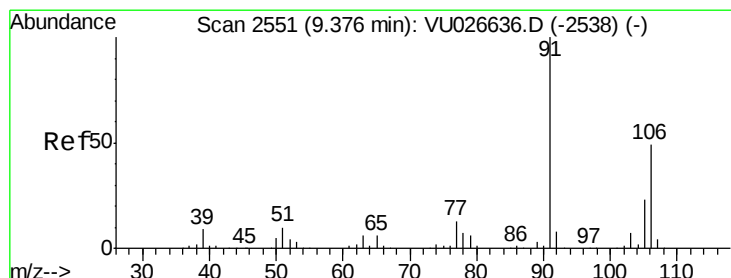
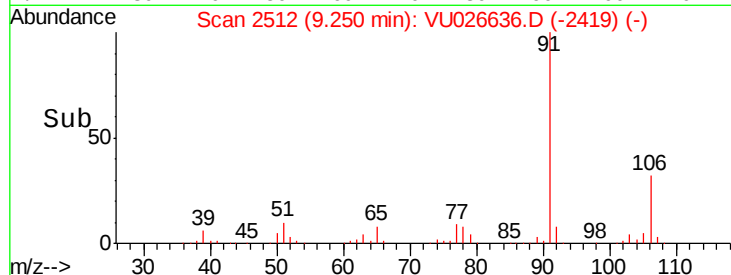
100000

50000

0

9.15 9.20 9.25 9.30 9.35

Time-->



#53

m,p-Xylene

Concen: 51.735 ug/L

RT: 9.38 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VU026636.D

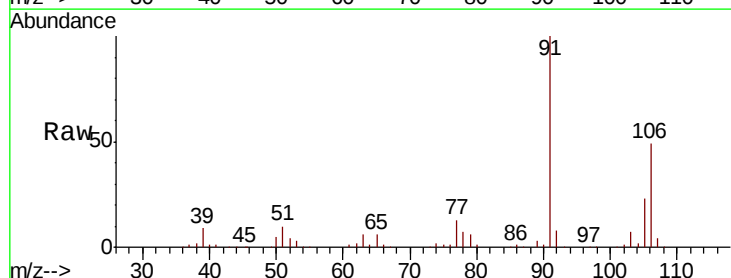
Acq: 10 Sep 2018 08:55

Tgt Ion: 106 Resp: 114237

Ion Ratio Lower Upper

106 100

91 204.2 142.9 265.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

150000

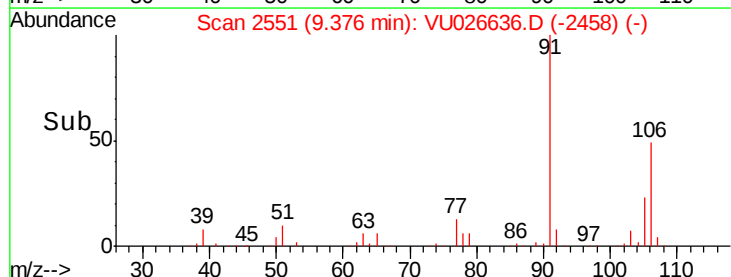
100000

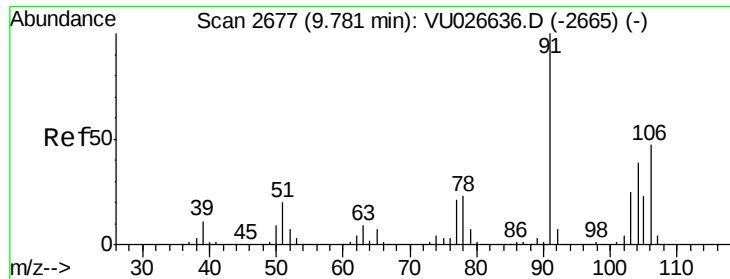
50000

0

9.30 9.35 9.40 9.45

Time-->





#54

o-xylene

Concen: 51.579 ug/L

RT: 9.78 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VU026636.D

Acq: 10 Sep 2018 08:55

Instrument :

MSVOA_U

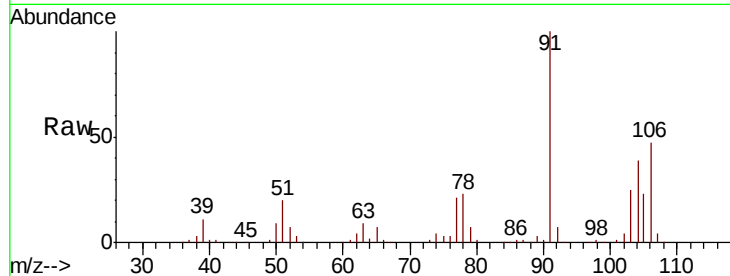
ClientSampled :

Tot Ion:106 Resp: 113034

Ion Ratio Lower Upper

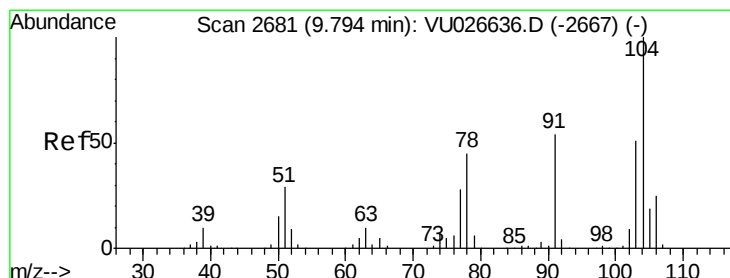
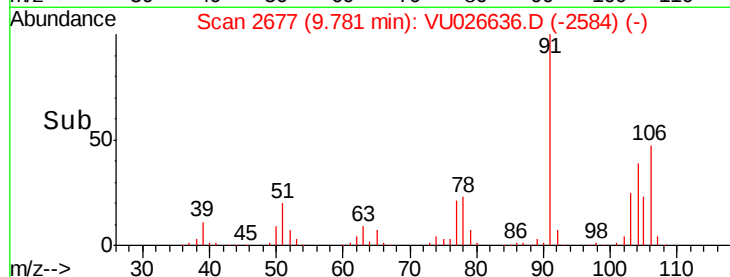
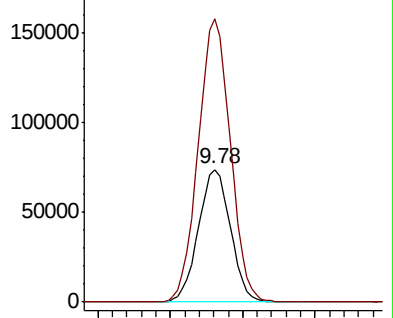
106 100

91 213.4 149.4 277.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 52.206 ug/L

RT: 9.79 min Scan# 2681

Delta R.T. 0.00 min

Lab File: VU026636.D

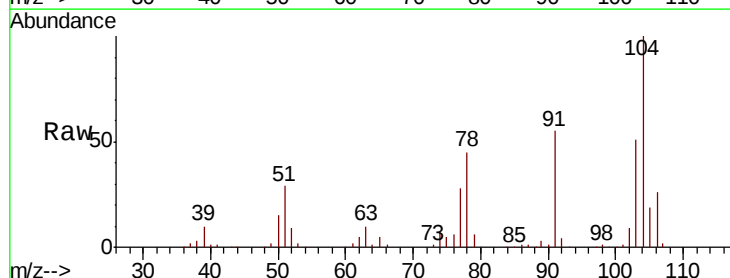
Acq: 10 Sep 2018 08:55

Tgt Ion:104 Resp: 193529

Ion Ratio Lower Upper

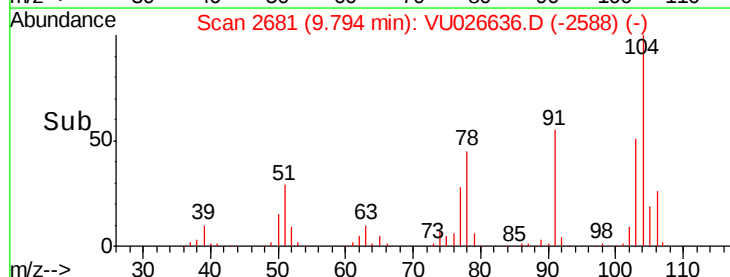
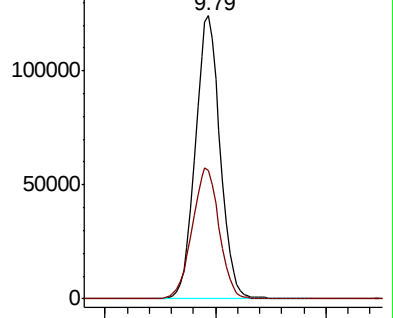
104 100

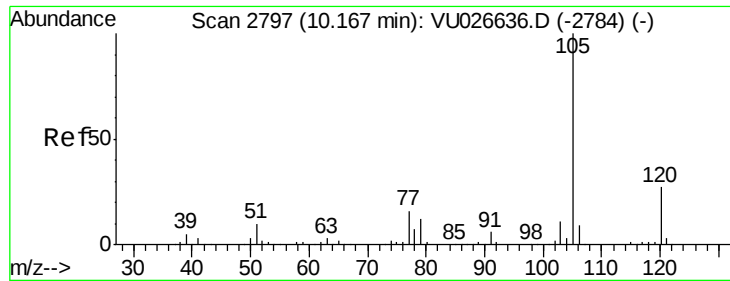
78 45.3 31.7 58.9



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 51.906 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU026636.D

Acq: 10 Sep 2018 08:55

Instrument :

MSVOA_U

ClientSampled :

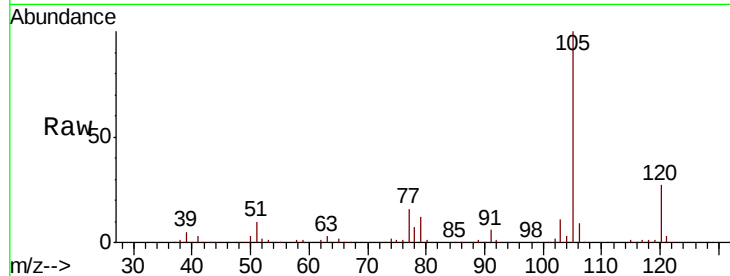
Tot Ion:105 Resp: 289770

Ion Ratio Lower Upper

105 100

120 26.9 21.5 32.3

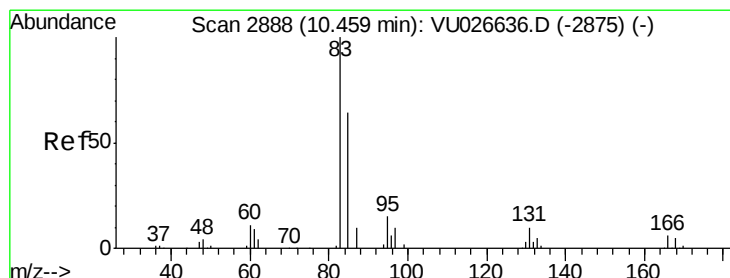
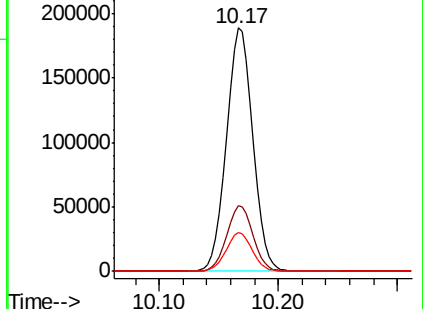
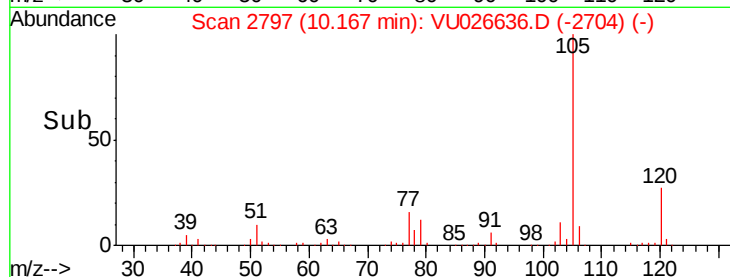
77 15.7 12.6 18.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 49.658 ug/L

RT: 10.46 min Scan# 2888

Delta R.T. 0.00 min

Lab File: VU026636.D

Acq: 10 Sep 2018 08:55

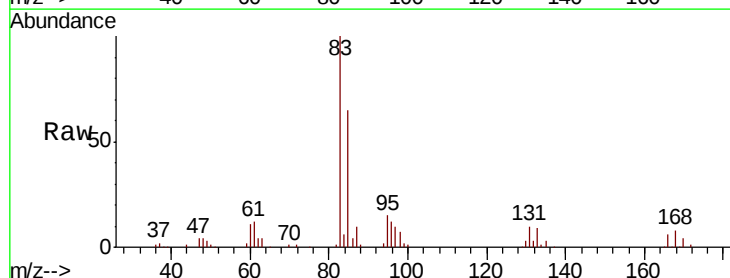
Tgt Ion: 83 Resp: 111371

Ion Ratio Lower Upper

83 100

85 64.8 45.4 84.2

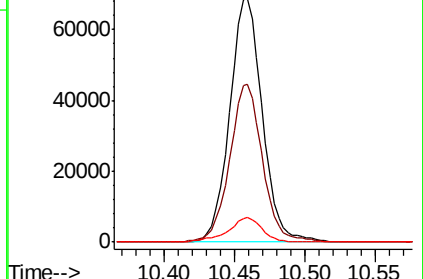
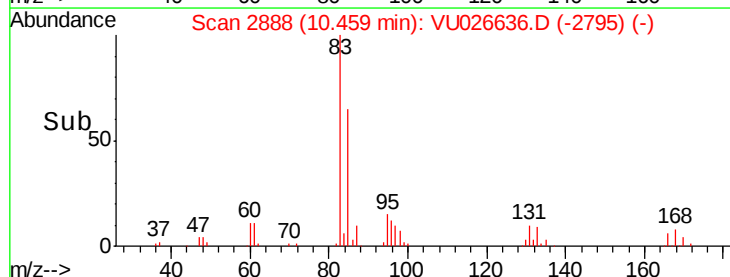
131 10.0 8.0 12.0

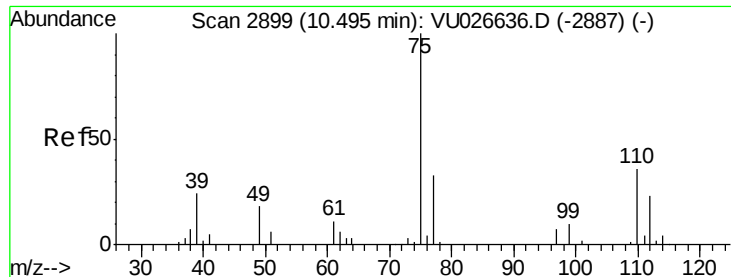


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 49.286 ug/L

RT: 10.49 min Scan# 2899

Delta R.T. 0.00 min

Lab File: VU026636.D

Acq: 10 Sep 2018 08:55

Instrument :

MSVOA_U

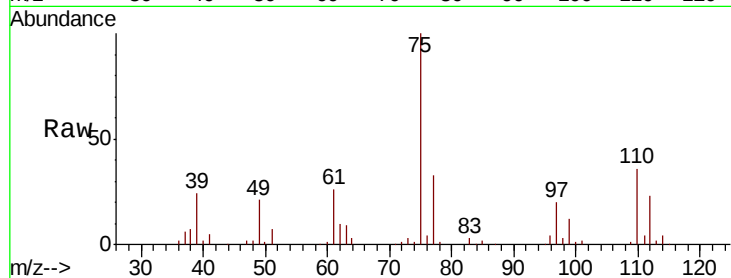
ClientSampleId :

Tot Ion: 75 Resp: 85110

Ion Ratio Lower Upper

75 100

77 32.2 25.8 38.6



Abundance Ion 75.00 (74.70 to 75.70): VU026636.D (-2887) (-)

Ion 77.00 (76.70 to 77.70): VU026636.D (-2887) (-)

10.49

60000

50000

40000

30000

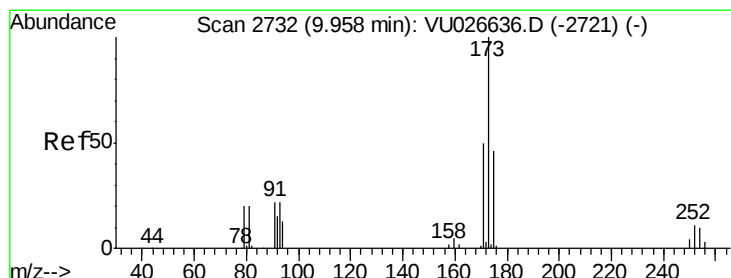
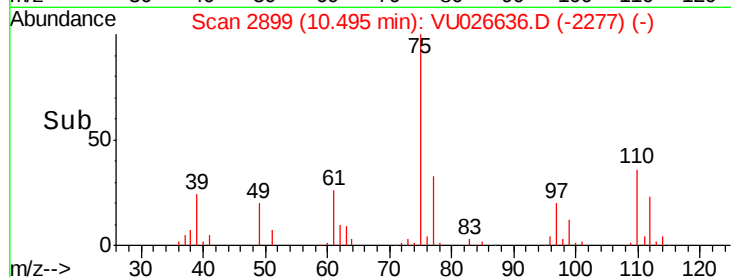
20000

10000

0

10.45 10.50 10.55

Time-->



#61

Bromoform

Concen: 50.631 ug/L

RT: 9.96 min Scan# 2732

Delta R.T. 0.00 min

Lab File: VU026636.D

Acq: 10 Sep 2018 08:55

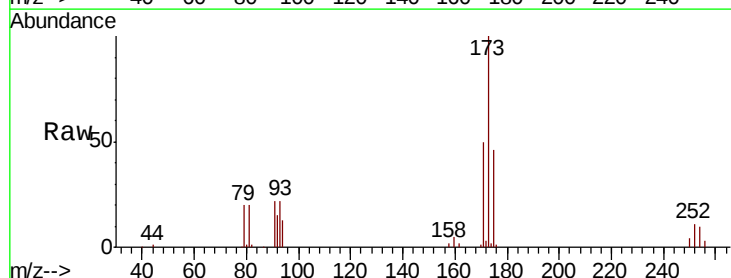
Tgt Ion:173 Resp: 58288

Ion Ratio Lower Upper

173 100

175 47.8 38.2 57.4

254 10.3 8.2 12.4



Abundance Ion 173.00 (172.70 to 173.70): VU026636.D (-2721) (-)

Ion 175.00 (174.70 to 175.70): VU026636.D (-2721) (-)

Ion 254.00 (253.70 to 254.70): VU026636.D (-2721) (-)

9.96

50000

40000

30000

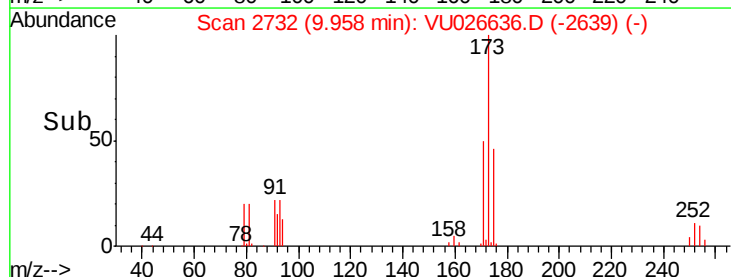
20000

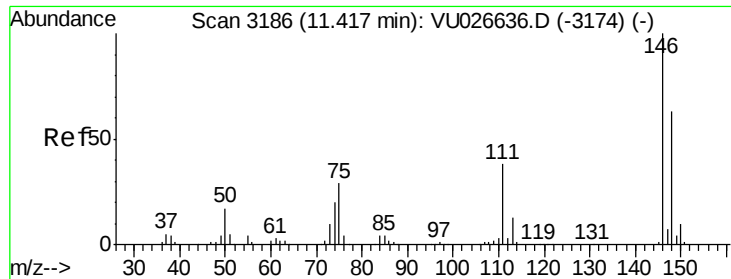
10000

0

9.90 9.95 10.00 10.05

Time-->





#62

1,3-Dichlorobenzene

Concen: 50.275 ug/L

RT: 11.42 min Scan# 3186

Delta R.T. 0.00 min

Lab File: VU026636.D

Acq: 10 Sep 2018 08:55

Instrument :

MSVOA_U

ClientSampleId :

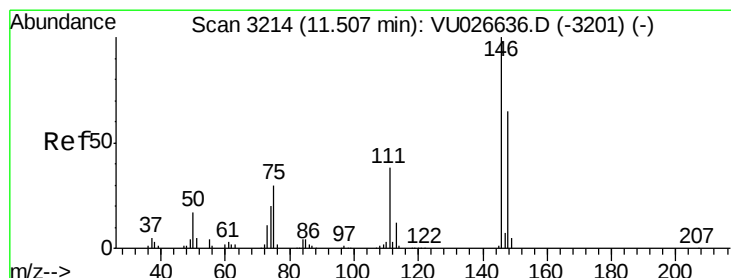
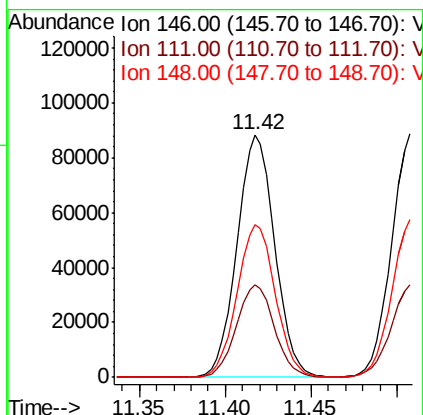
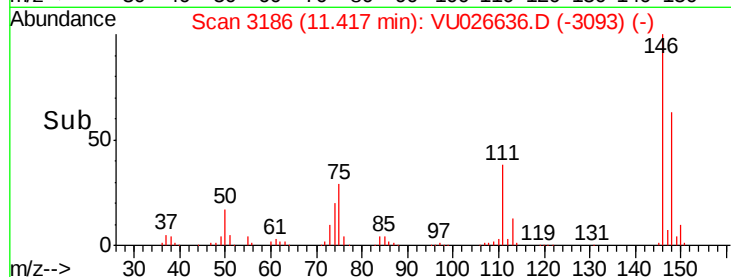
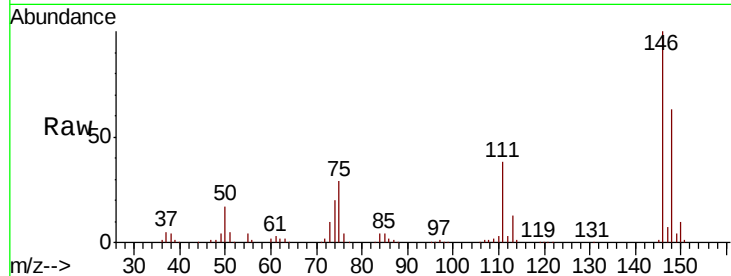
Tot Ion:146 Resp: 134908

Ion Ratio Lower Upper

146 100

111 38.1 26.7 49.5

148 63.2 44.2 82.2



#63

1,4-Dichlorobenzene

Concen: 48.663 ug/L

RT: 11.51 min Scan# 3214

Delta R.T. 0.00 min

Lab File: VU026636.D

Acq: 10 Sep 2018 08:55

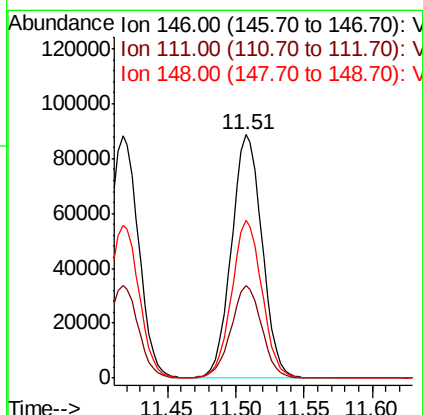
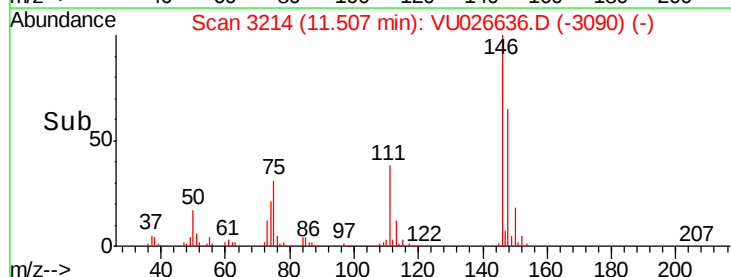
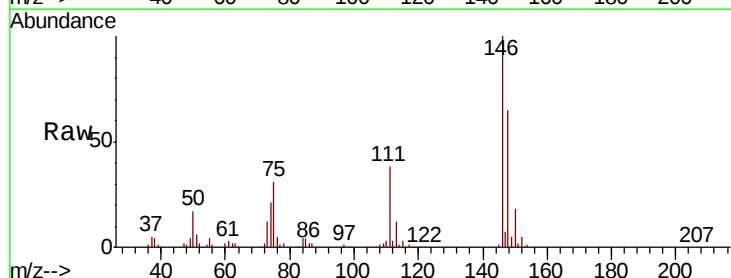
Tgt Ion:146 Resp: 138333

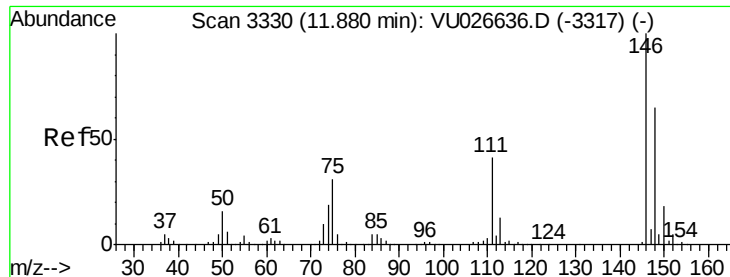
Ion Ratio Lower Upper

146 100

111 37.9 26.5 49.3

148 64.6 45.2 84.0





#65

1,2-Dichlorobenzene

Concen: 50.790 ug/L

RT: 11.88 min Scan# 3330

Delta R.T. 0.00 min

Lab File: VU026636.D

Acq: 10 Sep 2018 08:55

Instrument :

MSVOA_U

ClientSampleId :

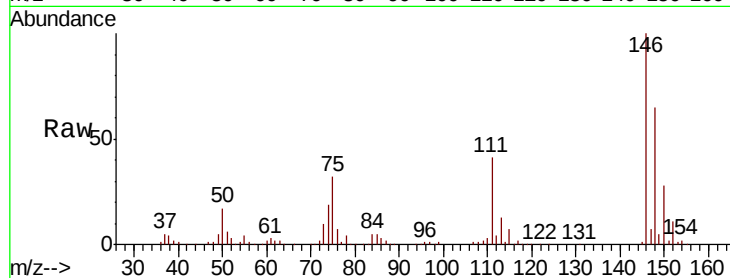
Tot Ion:146 Resp: 144040

Ion Ratio Lower Upper

146 100

111 41.0 32.8 49.2

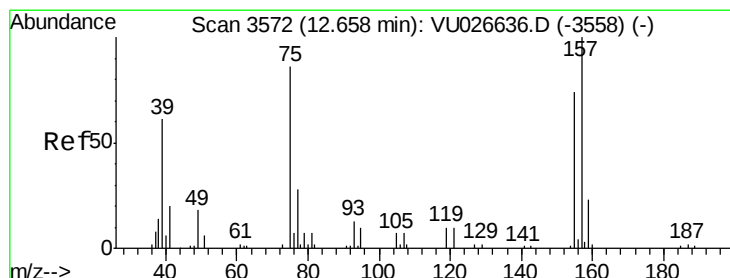
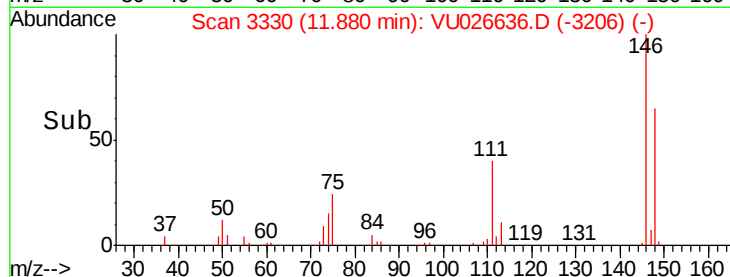
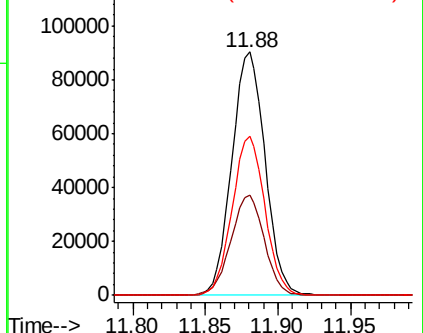
148 65.3 52.2 78.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 49.661 ug/L

RT: 12.66 min Scan# 3572

Delta R.T. 0.00 min

Lab File: VU026636.D

Acq: 10 Sep 2018 08:55

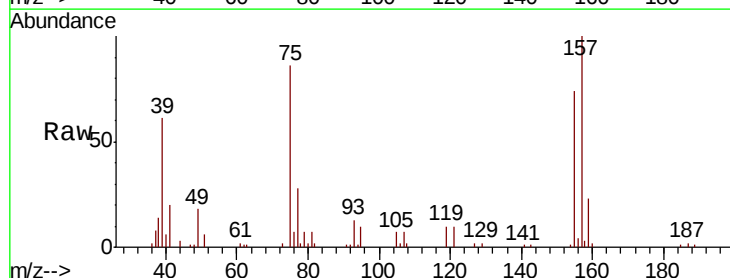
Tgt Ion: 75 Resp: 22753

Ion Ratio Lower Upper

75 100

155 86.6 69.3 103.9

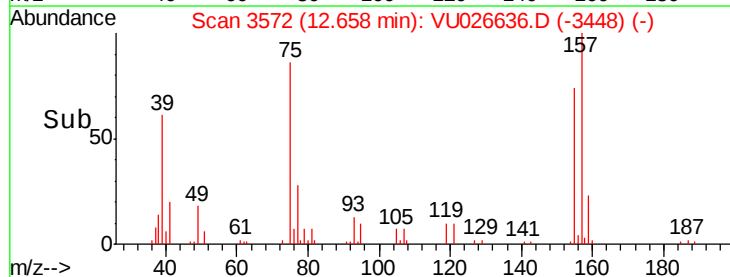
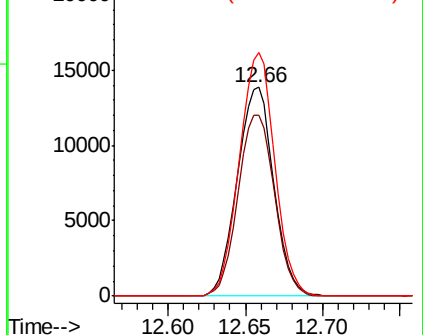
157 116.7 93.4 140.0

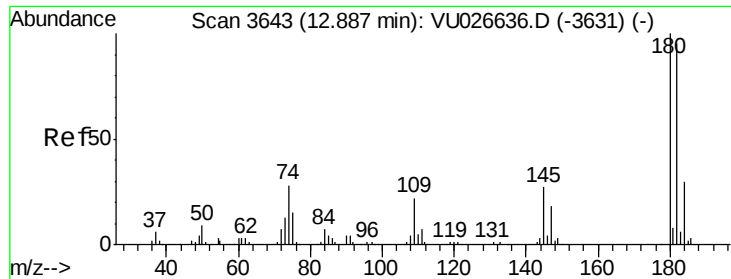


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

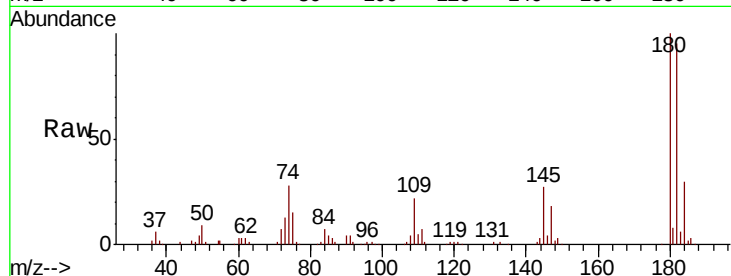




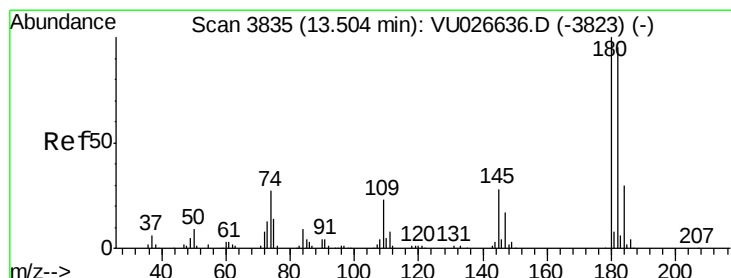
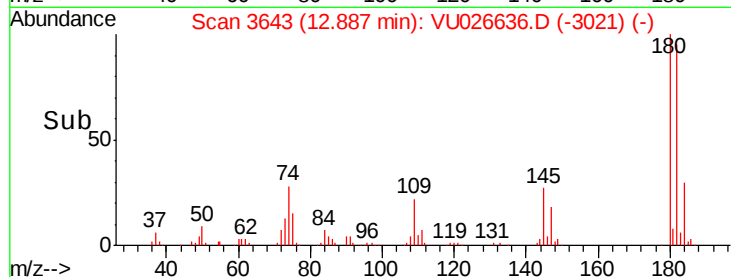
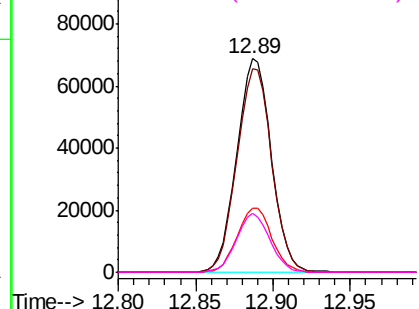
#67
 1,3,5-Trichlorobenzene
 Concen: 49.971 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. 0.00 min
 Lab File: VU026636.D
 Acq: 10 Sep 2018 08:55

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	180	Resp:	106362
Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.8	115.2
184	30.2	24.2	36.2
145	26.8	21.4	32.2

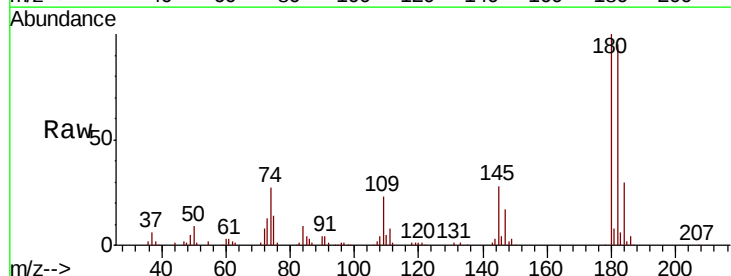


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

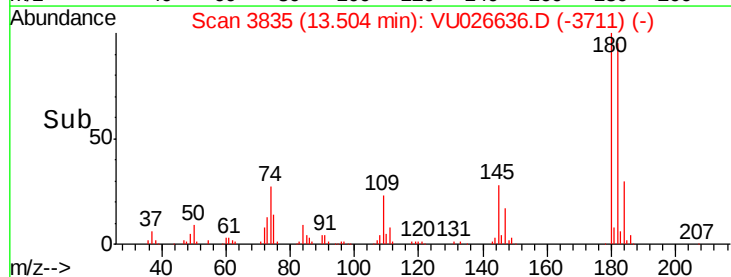
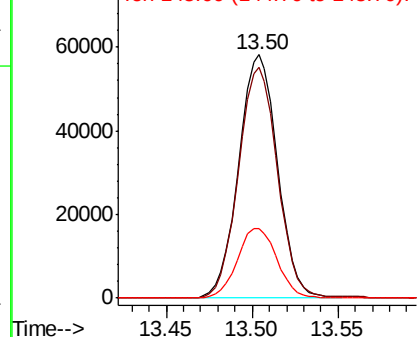


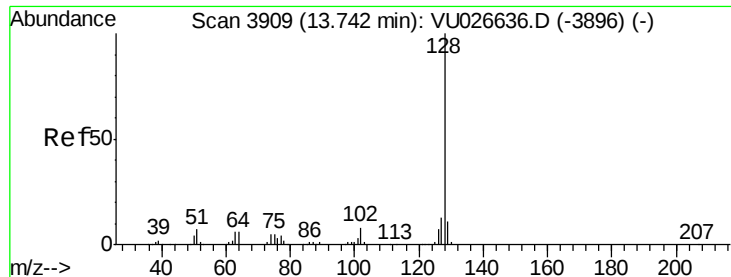
#68
 1,2,4-trichlorobenzene
 Concen: 49.504 ug/L
 RT: 13.50 min Scan# 3835
 Delta R.T. 0.00 min
 Lab File: VU026636.D
 Acq: 10 Sep 2018 08:55

Tgt Ion:	180	Resp:	91583
Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.0	114.0
145	29.2	23.4	35.0



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: 52.472 ug/L

RT: 13.74 min Scan# 3909

Delta R.T. 0.00 min

Lab File: VU026636.D

Acq: 10 Sep 2018 08:55

Instrument :

MSVOA_U

ClientSampleId :

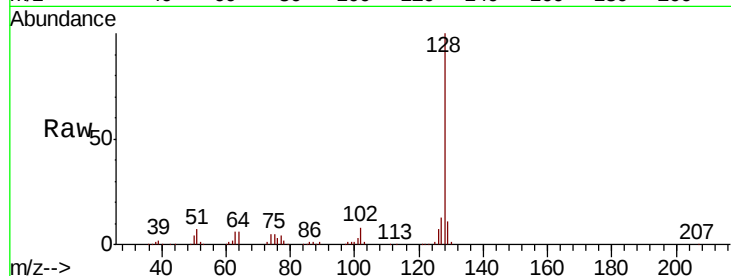
Tot Ion:128 Resp: 297461

Ion Ratio Lower Upper

128 100

127 12.9 10.3 15.5

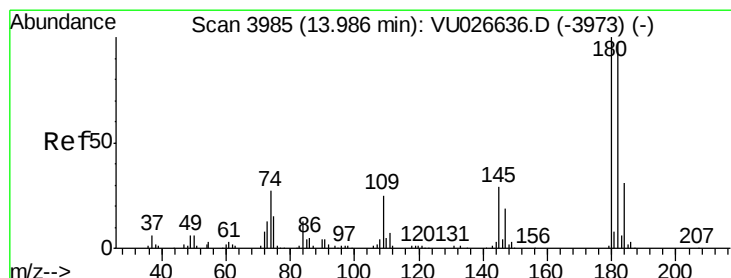
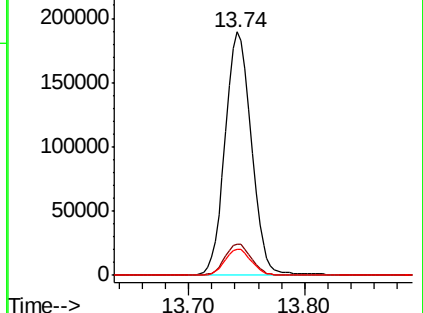
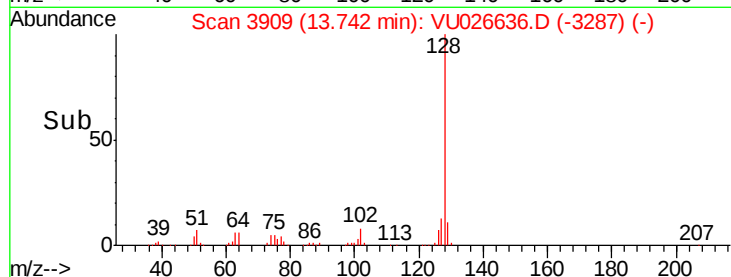
129 10.8 8.6 13.0



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: 50.877 ug/L

RT: 13.99 min Scan# 3985

Delta R.T. 0.00 min

Lab File: VU026636.D

Acq: 10 Sep 2018 08:55

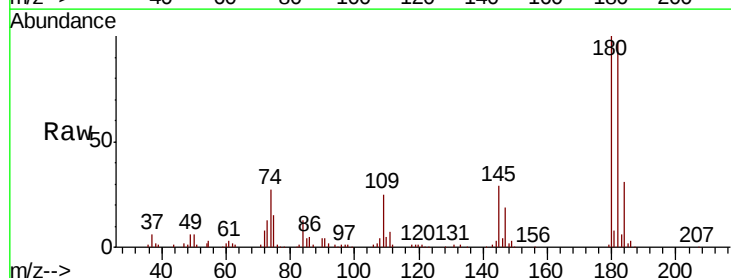
Tgt Ion:180 Resp: 101955

Ion Ratio Lower Upper

180 100

182 95.9 76.7 115.1

145 28.8 23.0 34.6



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

