

Data File : VU031401.D
Acq On : 22 Apr 2019 18:37
Operator : JC/SP
Sample : VSTD10051
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD10051

Quant Time: Apr 23 02:59:48 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042319WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Apr 23 02:55:51 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	710254	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	665009	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	321497	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	575155	88.68	ug/L	0.00
7) Chloroethane-d5	1.68	69	440292	81.08	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	997566	79.03	ug/L	0.00
21) 2-Butanone-d5	4.19	46	921926	198.11	ug/L	0.00
24) Chloroform-d	4.64	84	910764	86.29	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	538736	83.08	ug/L	0.00
32) Benzene-d6	5.34	84	1888495	91.00	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.32	67	617532	91.36	ug/L	0.00
41) Toluene-d8	7.56	98	1721193	94.07	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	296602	92.71	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	643032	198.97	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	850849	90.58	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	639534	87.32	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	503520	79.139	ug/L	97
3) Chloromethane	1.32	50	620648	81.023	ug/L	100
5) Vinyl chloride	1.40	62	629744	82.076	ug/L	100
6) Bromomethane	1.63	94	369280	75.279	ug/L	100
8) Chloroethane	1.70	64	358345	74.715	ug/L	100
9) Trichlorofluoromethane	1.88	101	761590	73.263	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	445786	80.339	ug/L	99
12) 1,1-Dichloroethene	2.28	96	436862	80.100	ug/L	99
13) Acetone	2.34	43	651585	177.010	ug/L	98
14) Carbon disulfide	2.47	76	1296626	86.913	ug/L	99
15) Methyl Acetate	2.62	43	626598	97.558	ug/L	100
16) Methylene chloride	2.70	84	486939	89.901	ug/L	99
17) trans-1,2-Dichloroethene	2.98	96	448410	88.015	ug/L	99
18) Methyl tert-butyl Ether	3.00	73	1491630	92.991	ug/L	100
19) 1,1-Dichloroethane	3.44	63	873324	87.144	ug/L	98
20) cis-1,2-Dichloroethene	4.22	96	509578	88.394	ug/L	98
22) 2-Butanone	4.27	43	936582	190.490	ug/L	97
23) Bromochloromethane	4.54	128	255737	89.479	ug/L	96
25) Chloroform	4.67	83	845645	84.490	ug/L	95
27) 1,2-Dichloroethane	5.40	62	631616	83.123	ug/L	96
29) Cyclohexane	4.99	56	824022	89.856	ug/L	100
30) 1,1,1-Trichloroethane	4.91	97	707924	82.374	ug/L	99
31) Carbon tetrachloride	5.13	117	606039	81.602	ug/L	99
33) Benzene	5.39	78	1908525	86.708	ug/L	100
34) Trichloroethene	6.18	95	493379	88.661	ug/L	98
35) Methylcyclohexane	6.41	83	750397	90.350	ug/L	99
37) 1,2-Dichloropropane	6.43	63	522808	89.016	ug/L	100
38) Bromodichloromethane	6.75	83	636809	85.923	ug/L	98
39) cis-1,3-Dichloropropene	7.26	75	825139	93.210	ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	1589379	190.428	ug/L	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.63	91	2035233	91.717	ug/L	100
44) trans-1,3-Dichloropropene	7.87	75	697753	91.750	ug/L	98
45) 1,1,2-Trichloroethane	8.06	97	478911	90.648	ug/L	98
46) Tetrachloroethene	8.22	164	371743	89.136	ug/L	99
48) 2-Hexanone	8.36	43	1263236	190.568	ug/L	99
49) Dibromochloromethane	8.47	129	515577	90.400	ug/L	99
50) 1,2-Dibromoethane	8.58	107	508322	90.714	ug/L	98
51) Chlorobenzene	9.12	112	1244430	89.984	ug/L	98
52) Ethylbenzene	9.24	91	2194317	91.075	ug/L	99
53) m,p-Xylene	9.37	106	824349	96.580	ug/L	99
54) o-xylene	9.77	106	822183	94.992	ug/L	97
55) Styrene	9.79	104	1414364	97.558	ug/L	100
56) Isopropylbenzene	10.16	105	2141343	96.554	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	816644	89.576	ug/L	100
59) 1,2,3-Trichloropropane	10.49	75	632751	90.132	ug/L	99
61) Bromoform	9.95	173	391576	88.936	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	962026	90.839	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	957888	90.516	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	969471	87.302	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	187742	88.335	ug/L	96
67) 1,3,5-Trichlorobenzene	12.88	180	723983	91.499	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	648874	101.732	ug/L	99
69) Naphthalene	13.74	128	2216736	109.345	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	674596	97.100	ug/L	99

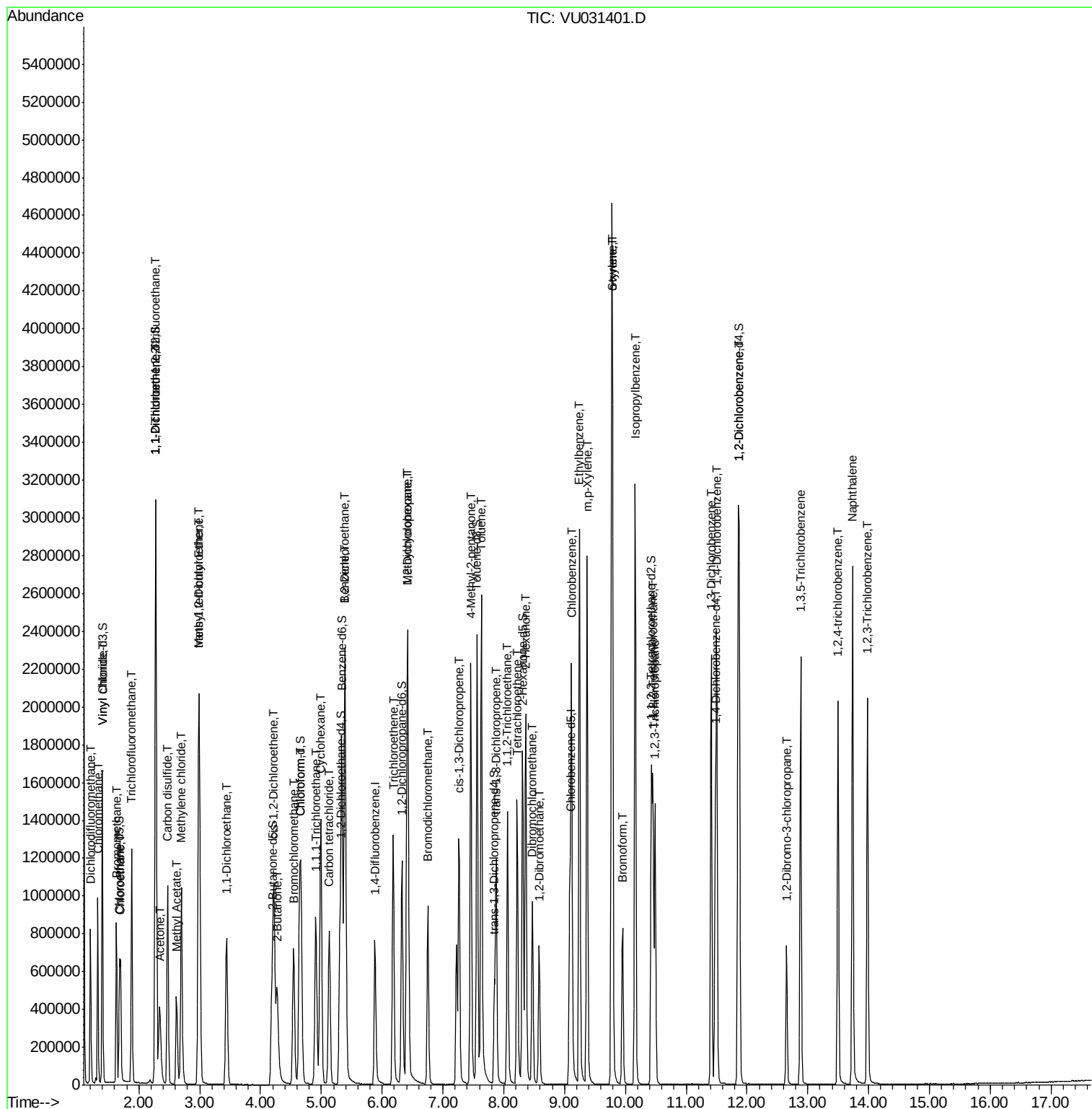
(#) = qualifier out of range (m) = manual integration (+) = signals summed

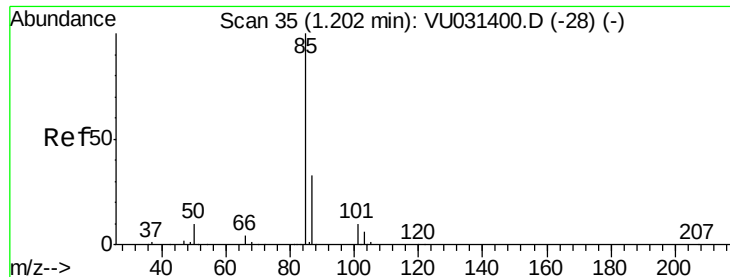
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#2

Dichlorodifluoromethane

Concen: 79.139 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU031401.D

Acq: 22 Apr 2019 18:37

Instrument :

MSVOA_U

ClientSampleId :

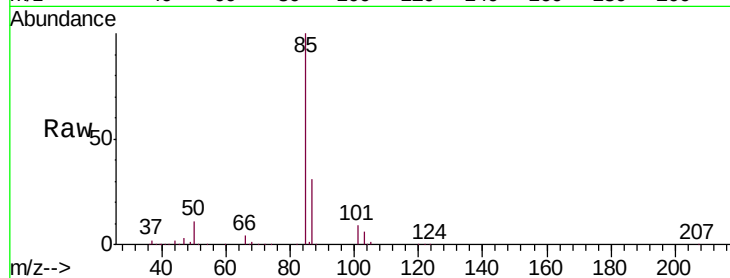
VSTD10051

Tgt Ion: 85 Resp: 503520

Ion Ratio Lower Upper

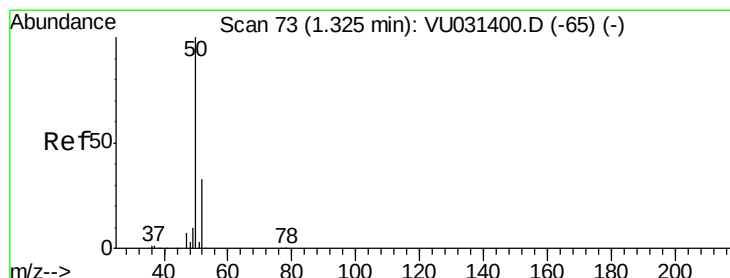
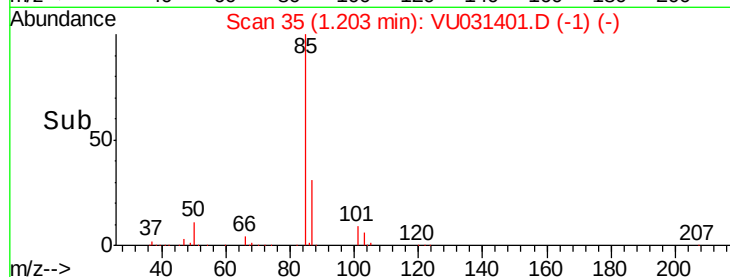
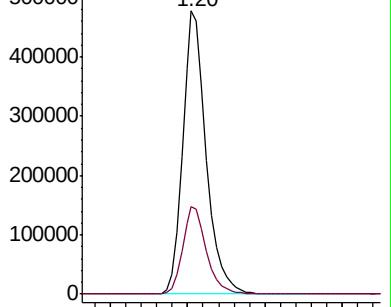
85 100

87 31.4 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VU031401.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU031401.D (-1) (-)



#3

Chloromethane

Concen: 81.023 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU031401.D

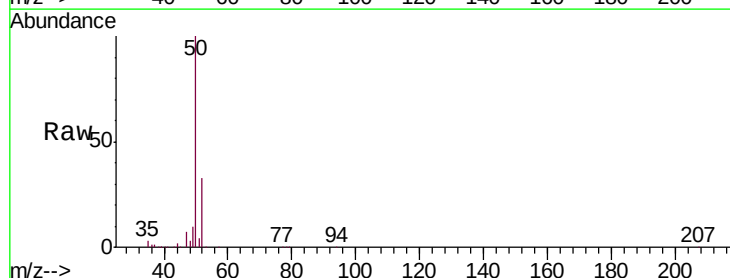
Acq: 22 Apr 2019 18:37

Tgt Ion: 50 Resp: 620648

Ion Ratio Lower Upper

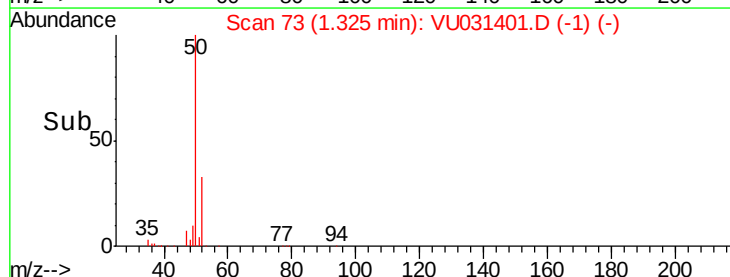
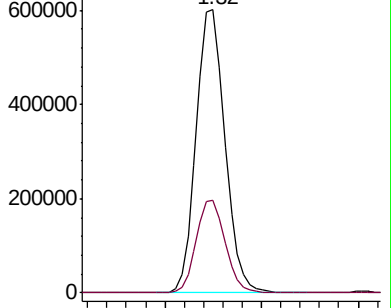
50 100

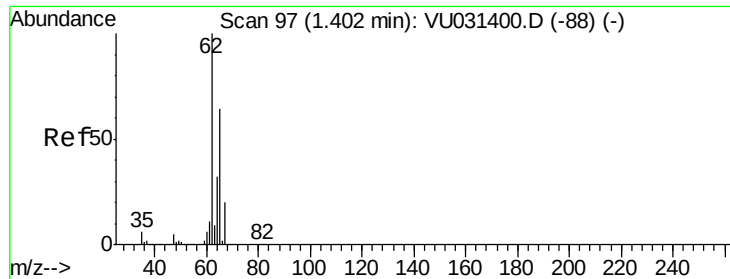
52 32.9 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VU031401.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU031401.D (-1) (-)





#5

Vinyl chloride

Concen: 82.076 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU031401.D

Acq: 22 Apr 2019 18:37

Instrument :

MSVOA_U

ClientSampleId :

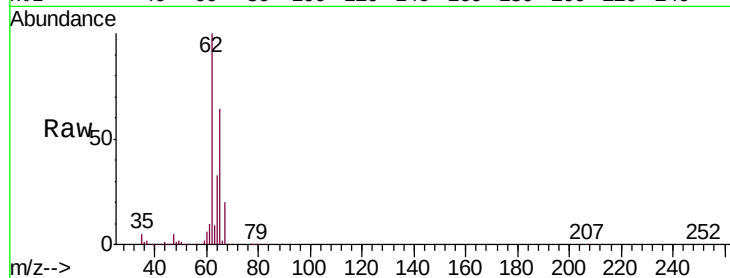
VSTD10051

Tgt Ion: 62 Resp: 629744

Ion Ratio Lower Upper

62 100

64 32.5 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU031401.D (-88) (-)

Ion 64.00 (63.70 to 64.70): VU031401.D (-88) (-)

1.40

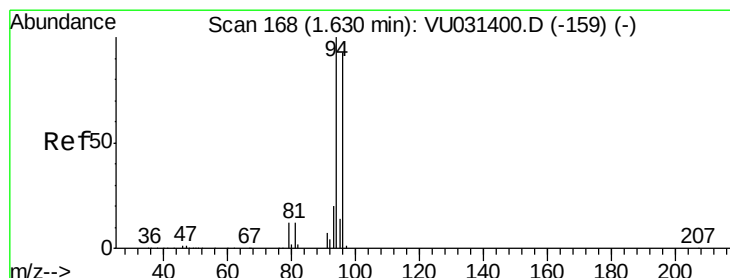
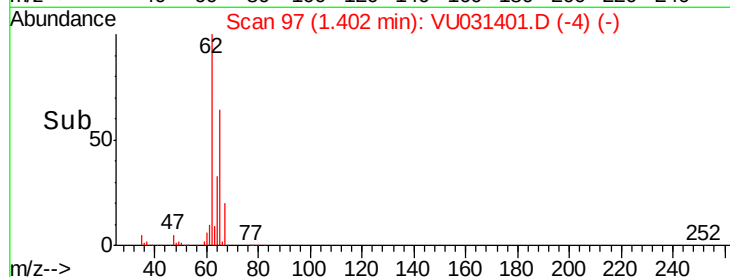
600000

400000

200000

0

Time-->



#6

Bromomethane

Concen: 75.279 ug/L

RT: 1.63 min Scan# 168

Delta R.T. 0.00 min

Lab File: VU031401.D

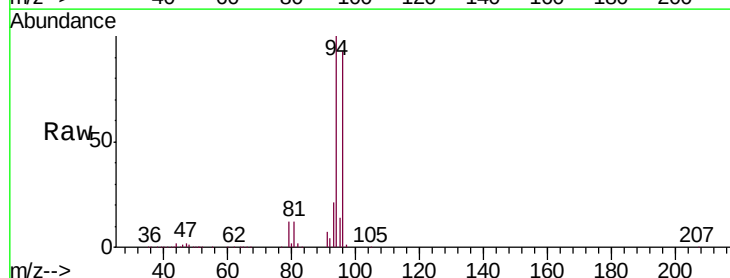
Acq: 22 Apr 2019 18:37

Tgt Ion: 94 Resp: 369280

Ion Ratio Lower Upper

94 100

96 93.0 65.1 120.9



Abundance Ion 94.00 (93.70 to 94.70): VU031401.D (-159) (-)

Ion 96.00 (95.70 to 96.70): VU031401.D (-159) (-)

1.63

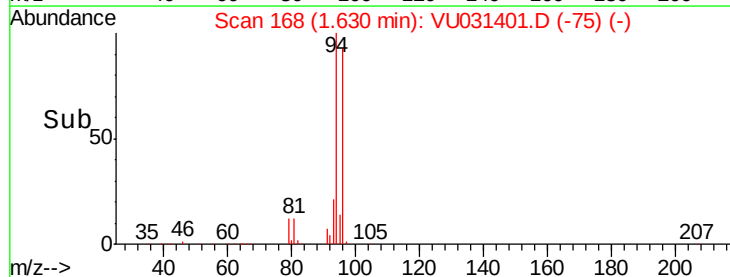
300000

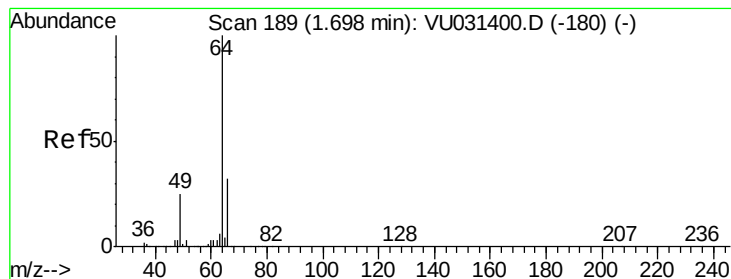
200000

100000

0

Time-->





#8

Chloroethane

Concen: 74.715 ug/L

RT: 1.70 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU031401.D

Acq: 22 Apr 2019 18:37

Instrument :

MSVOA_U

ClientSampleId :

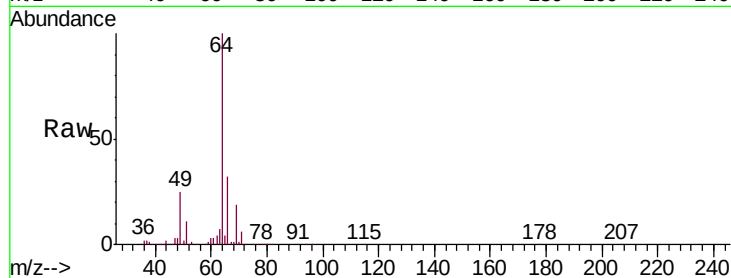
VSTD10051

Tgt Ion: 64 Resp: 358345

Ion Ratio Lower Upper

64 100

66 31.9 22.1 41.1



Abundance Ion 64.00 (63.70 to 64.70): VU031401.D (-180) (-)

Ion 66.00 (65.70 to 66.70): VU031401.D (-180) (-)

1.70

300000

250000

200000

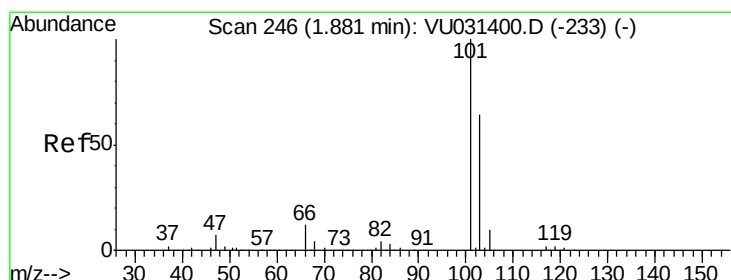
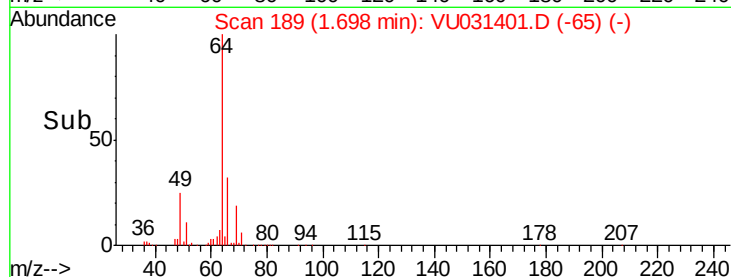
150000

100000

50000

0

Time-->



#9

Trichlorofluoromethane

Concen: 73.263 ug/L

RT: 1.88 min Scan# 246

Delta R.T. 0.00 min

Lab File: VU031401.D

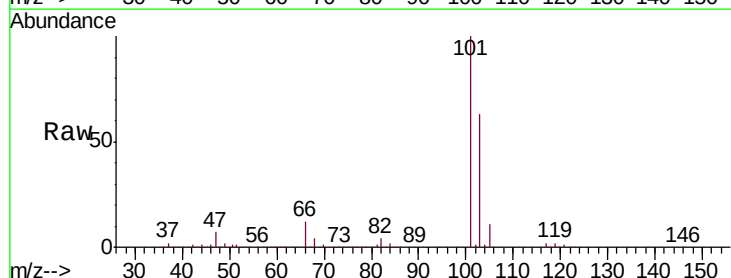
Acq: 22 Apr 2019 18:37

Tgt Ion: 101 Resp: 761590

Ion Ratio Lower Upper

101 100

103 63.5 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): VU031401.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU031401.D (-233) (-)

1.88

600000

500000

400000

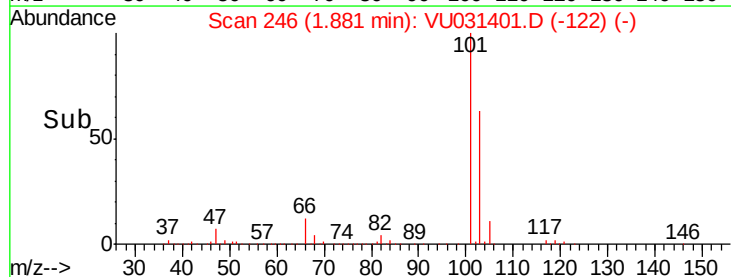
300000

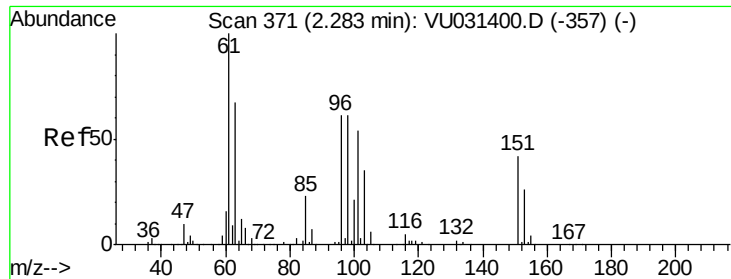
200000

100000

0

Time-->





#10

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

Concen: 80.339 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU031401.D

Acq: 22 Apr 2019 18:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD10051

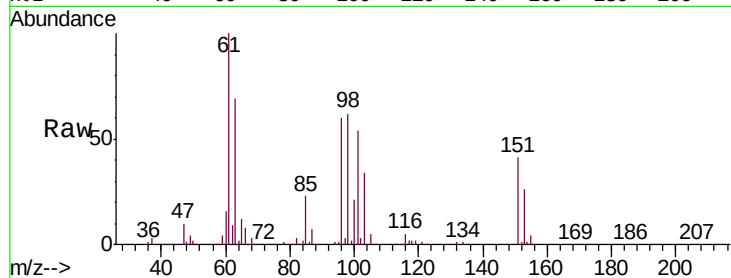
Tgt Ion: 101 Resp: 445786

Ion Ratio Lower Upper

101 100

85 41.0 33.1 49.7

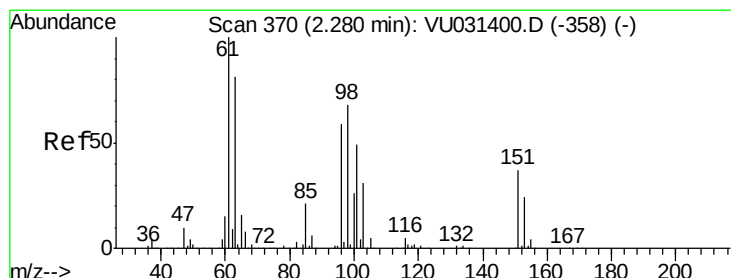
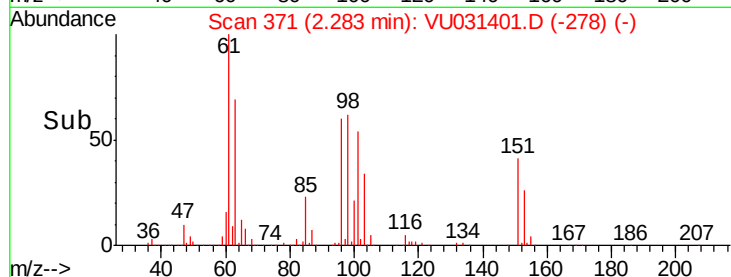
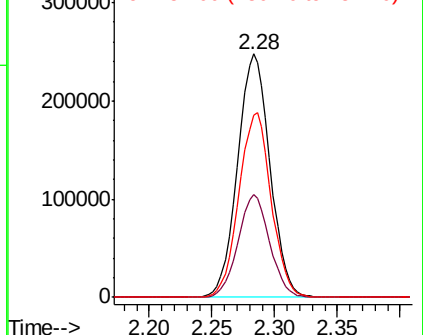
151 75.6 61.4 92.0



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: 80.100 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU031401.D

Acq: 22 Apr 2019 18:37

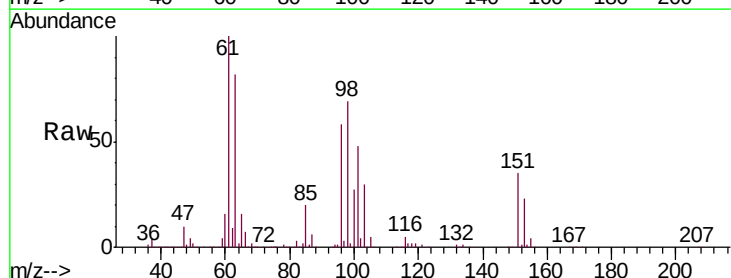
Tgt Ion: 96 Resp: 436862

Ion Ratio Lower Upper

96 100

61 171.7 118.9 220.9

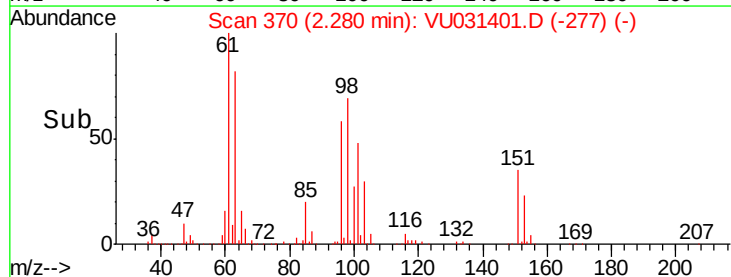
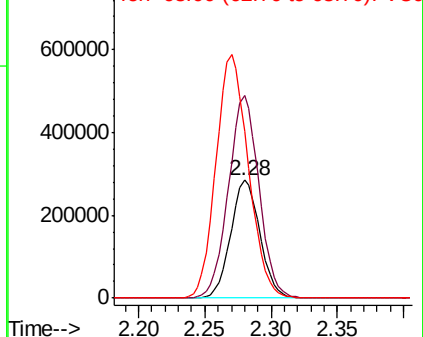
63 141.2 99.3 184.3

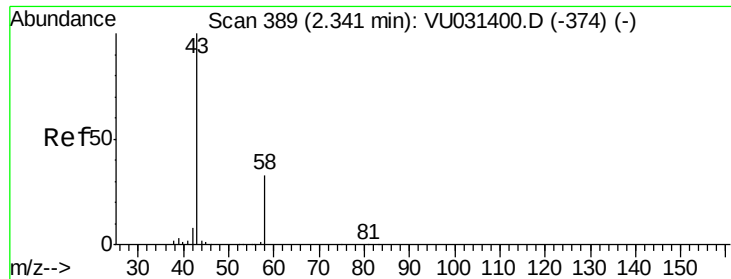


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 177.010 ug/L

RT: 2.34 min Scan# 389

Delta R.T. 0.00 min

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MSVOA_U

ClientSampleId :

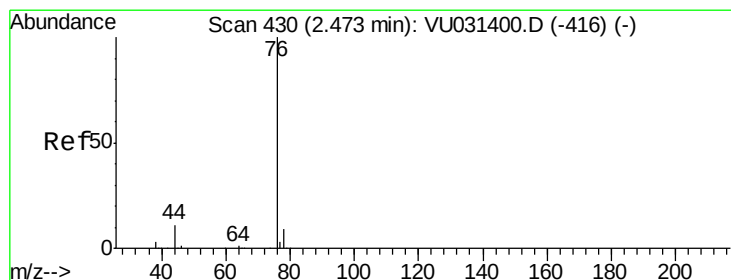
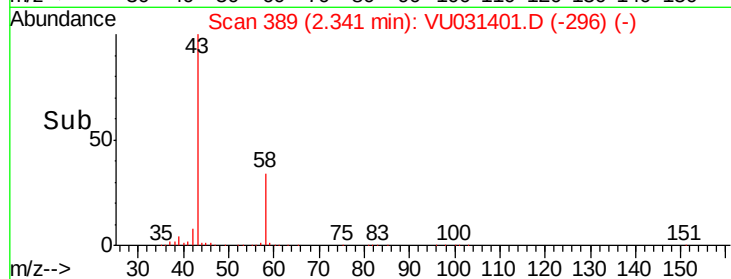
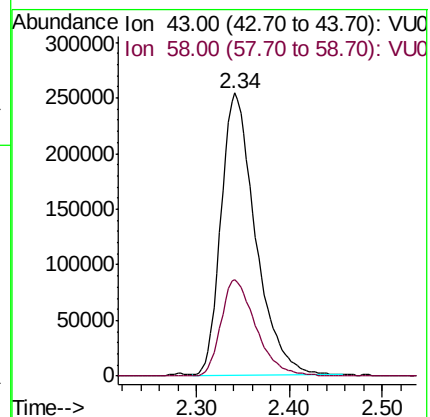
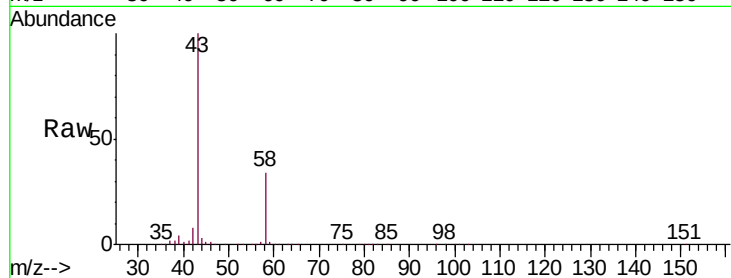
VSTD10051

Tgt Ion: 43 Resp: 651585

Ion Ratio Lower Upper

43 100

58 34.6 0.0 66.4



#14

Carbon disulfide

Concen: 86.913 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU031401.D

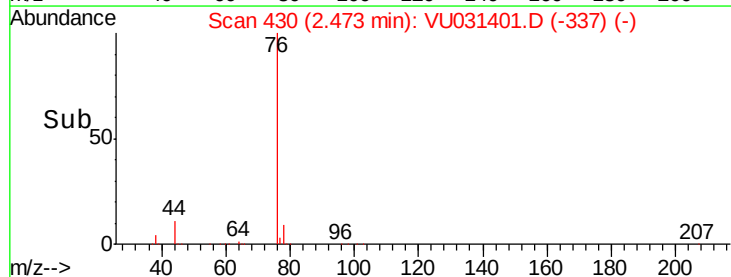
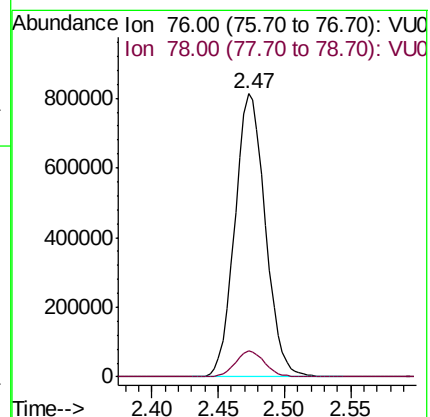
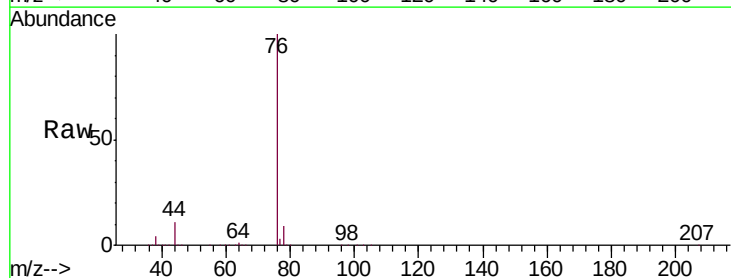
Acq: 22 Apr 2019 18:37

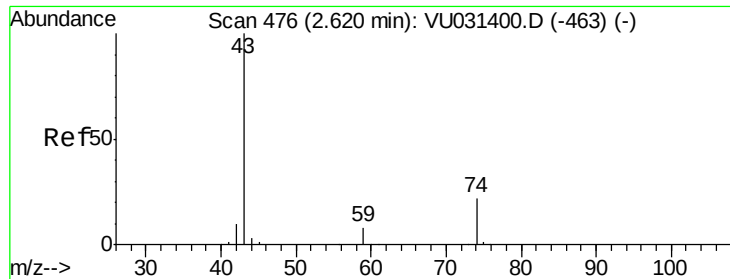
Tgt Ion: 76 Resp: 1296626

Ion Ratio Lower Upper

76 100

78 9.0 7.4 11.2

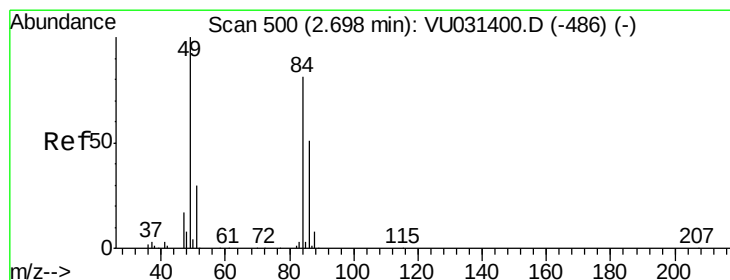
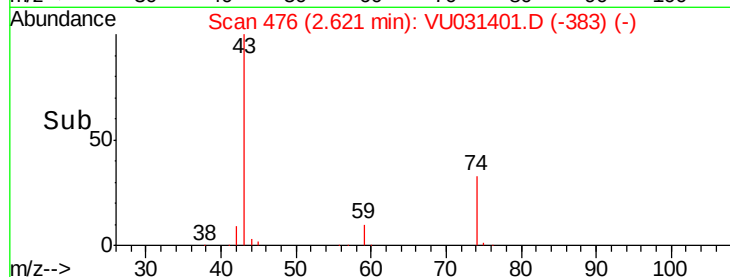
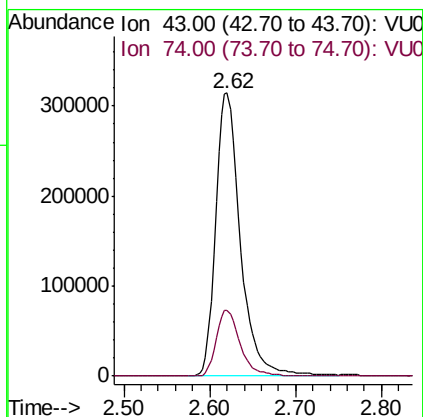
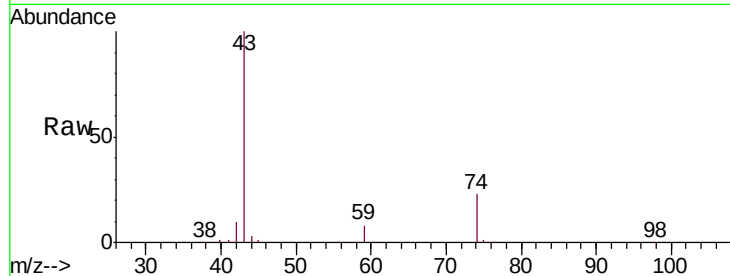




#15
Methyl Acetate
Concen: 97.558 ug/L
RT: 2.62 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU031401.D
Acq: 22 Apr 2019 18:37

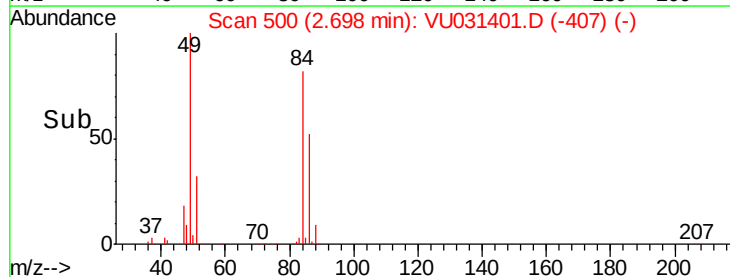
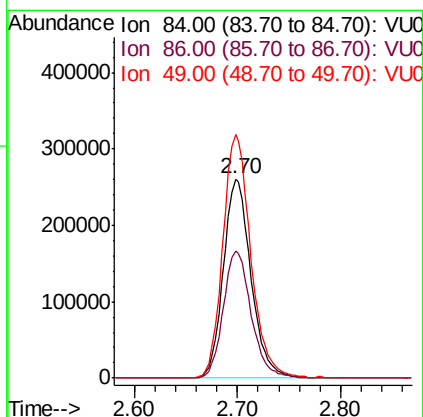
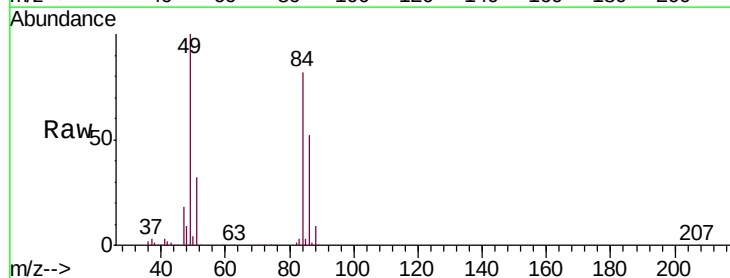
Instrument :
MSVOA_U
ClientSampleId :
VSTD10051

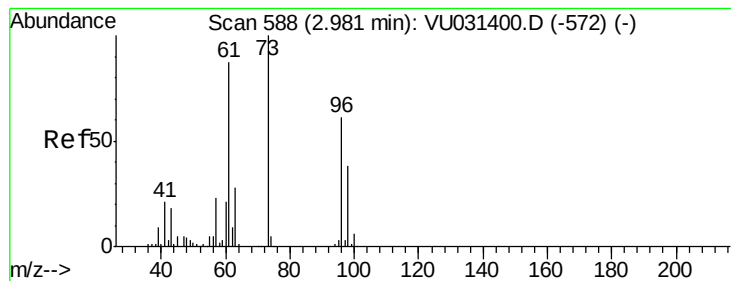
Tgt Ion: 43 Resp: 626598
Ion Ratio Lower Upper
43 100
74 22.7 18.1 27.1



#16
Methylene chloride
Concen: 89.901 ug/L
RT: 2.70 min Scan# 500
Delta R.T. 0.00 min
Lab File: VU031401.D
Acq: 22 Apr 2019 18:37

Tgt Ion: 84 Resp: 486939
Ion Ratio Lower Upper
84 100
86 64.0 44.4 82.5
49 122.3 86.7 161.1





#17

trans-1,2-Dichloroethene

Concen: 88.015 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU031401.D

Acq: 22 Apr 2019 18:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD10051

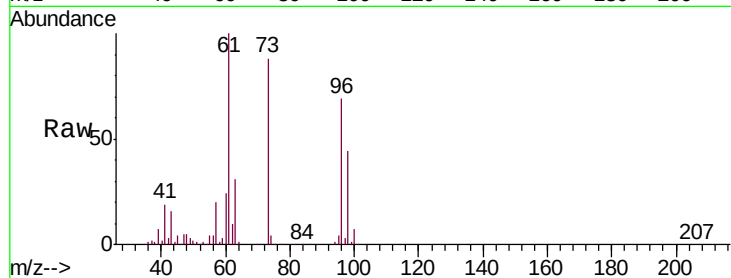
Tgt Ion: 96 Resp: 448410

Ion Ratio Lower Upper

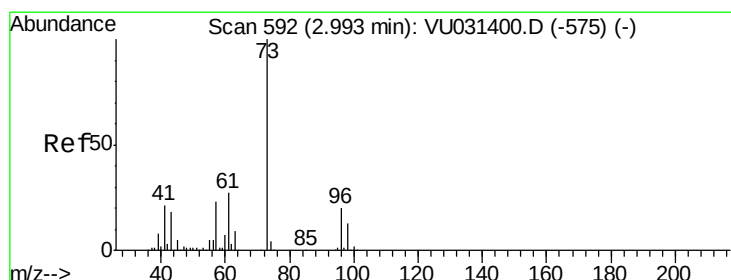
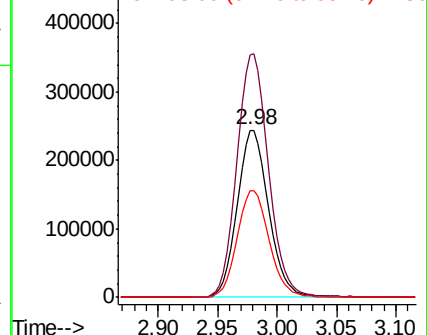
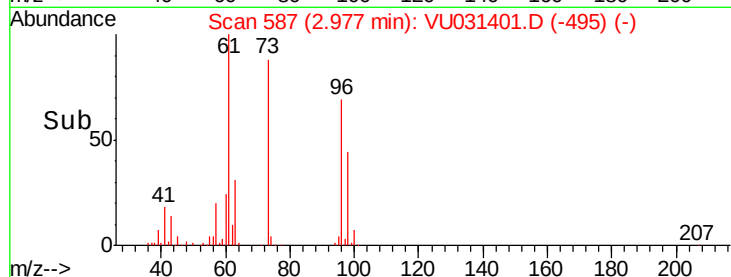
96 100

61 145.3 100.3 186.3

98 63.7 44.0 81.6



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



#18

Methyl tert-butyl Ether

Concen: 92.991 ug/L

RT: 3.00 min Scan# 593

Delta R.T. 0.00 min

Lab File: VU031401.D

Acq: 22 Apr 2019 18:37

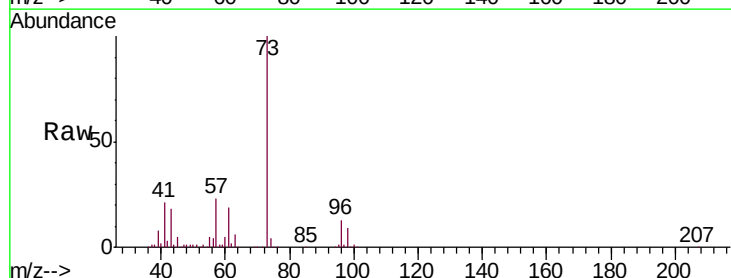
Tgt Ion: 73 Resp: 1491630

Ion Ratio Lower Upper

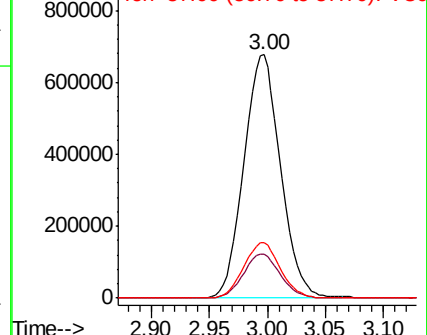
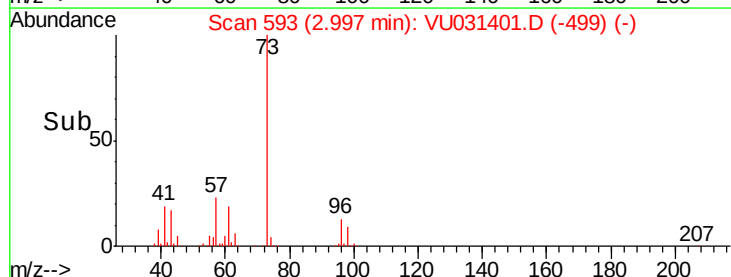
73 100

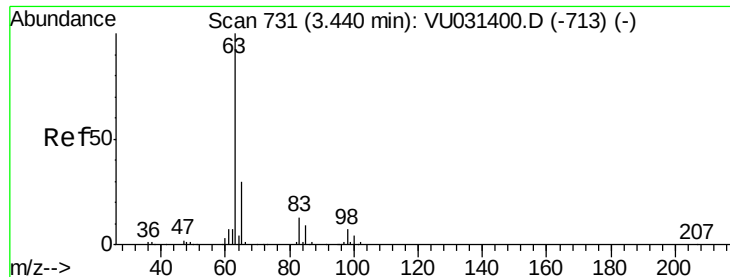
43 18.1 14.6 21.8

57 22.8 18.5 27.7



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

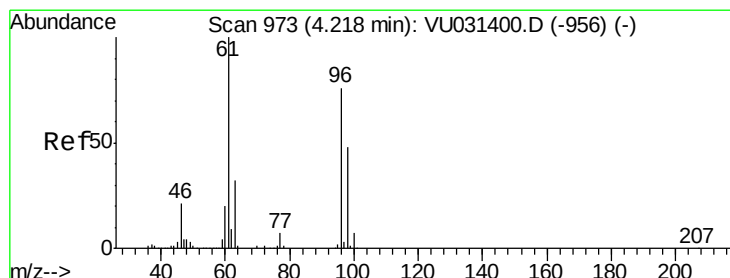
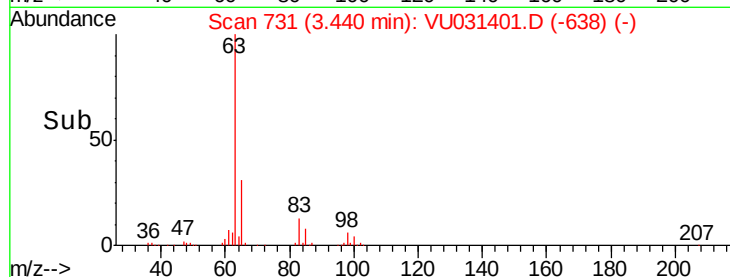
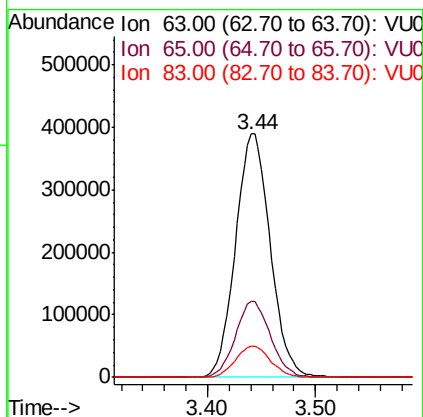
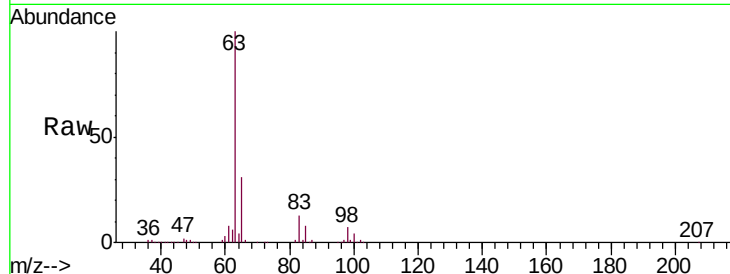




#19
 1,1-Dichloroethane
 Concen: 87.144 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VU031401.D
 Acq: 22 Apr 2019 18:37

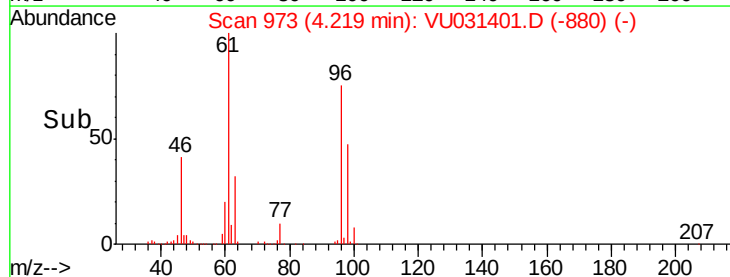
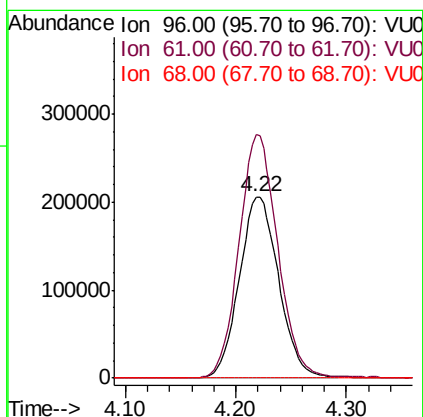
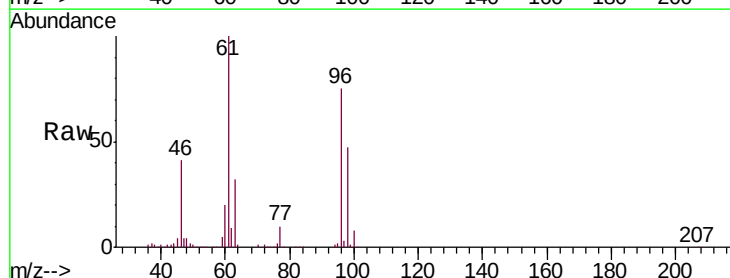
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10051

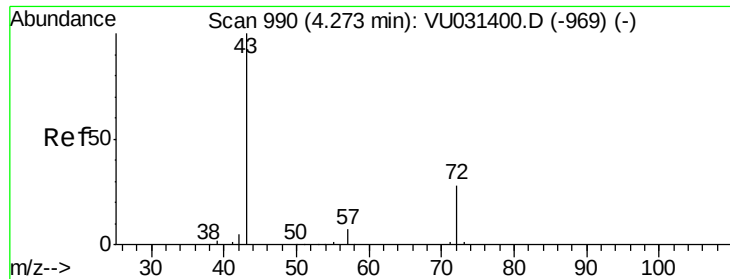
Tgt Ion	Ratio	Lower	Upper
63	100		
65	31.4	21.2	39.4
83	12.9	9.2	17.2



#20
 cis-1,2-Dichloroethene
 Concen: 88.394 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. 0.00 min
 Lab File: VU031401.D
 Acq: 22 Apr 2019 18:37

Tgt Ion	Ratio	Lower	Upper
96	100		
61	134.1	91.9	170.7
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 190.490 ug/L

RT: 4.27 min Scan# 990

Delta R.T. 0.00 min

Lab File: VU031401.D

Acq: 22 Apr 2019 18:37

Instrument :

MSVOA_U

ClientSampleId :

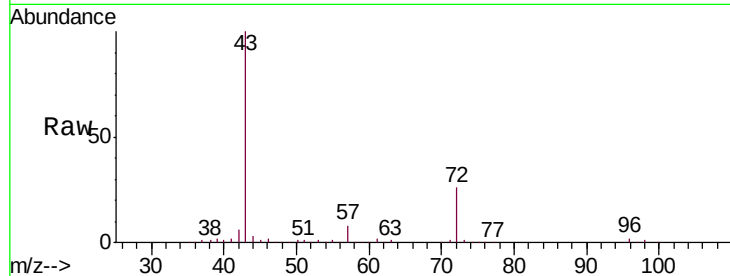
VSTD10051

Tgt Ion: 43 Resp: 936582

Ion Ratio Lower Upper

43 100

72 26.6 12.6 37.8



Abundance Ion 43.00 (42.70 to 43.70): VU031401.D (-897) (-)

Ion 72.00 (71.70 to 72.70): VU031401.D (-897) (-)

4.27

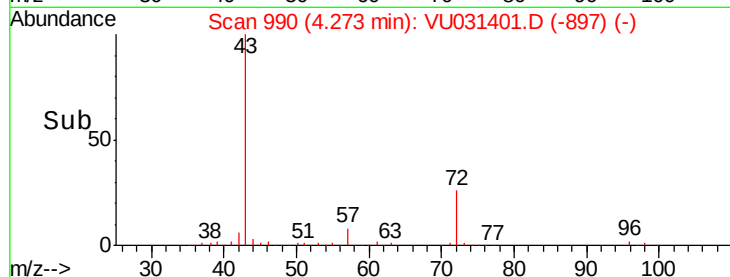
300000

200000

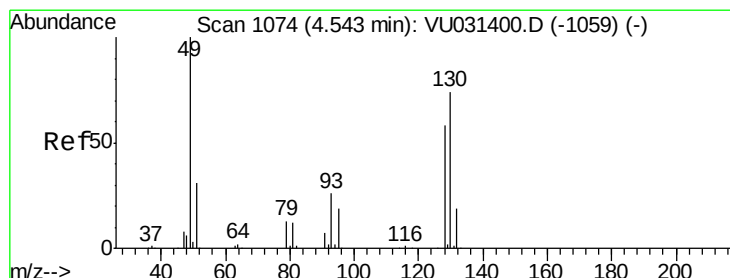
100000

0

Time-->



Time-->



#23

Bromochloromethane

Concen: 89.479 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VU031401.D

Acq: 22 Apr 2019 18:37

Tgt Ion: 128 Resp: 255737

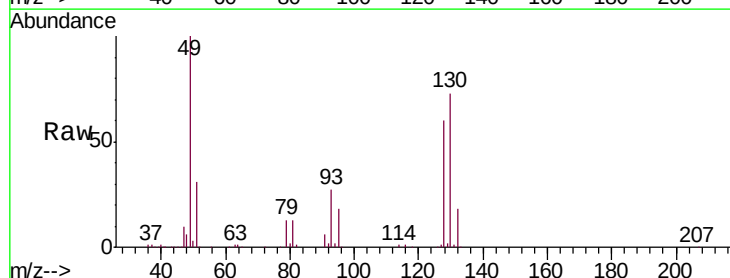
Ion Ratio Lower Upper

128 100

49 166.2 120.1 223.1

130 121.5 88.5 164.3

51 51.7 43.0 64.4



Abundance Ion 128.00 (127.70 to 128.70): VU031401.D (-981) (-)

Ion 49.00 (48.70 to 49.70): VU031401.D (-981) (-)

Ion 130.00 (129.70 to 130.70): VU031401.D (-981) (-)

Ion 51.00 (50.70 to 51.70): VU031401.D (-981) (-)

4.54

250000

200000

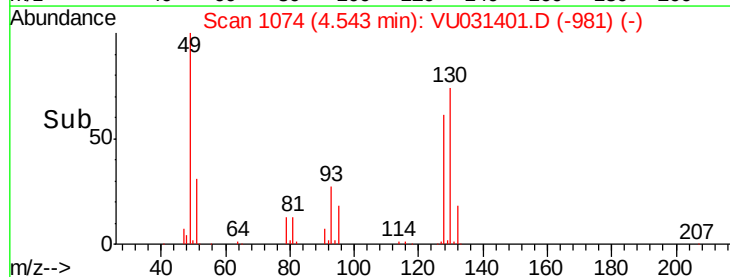
150000

100000

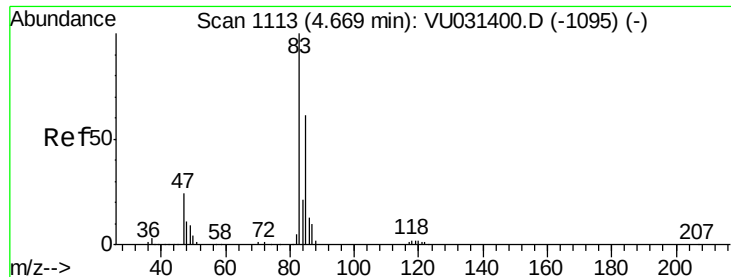
50000

0

Time-->



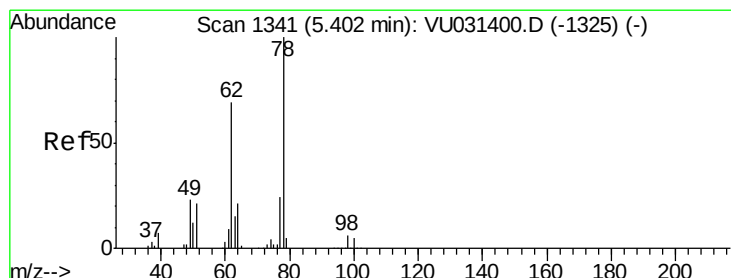
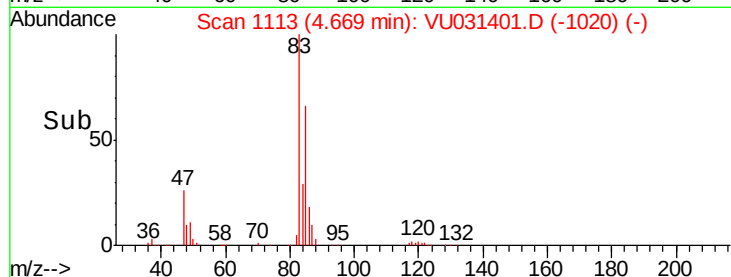
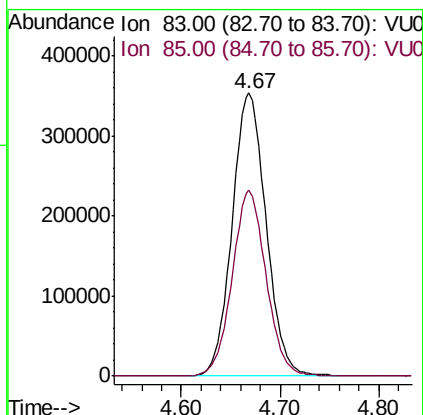
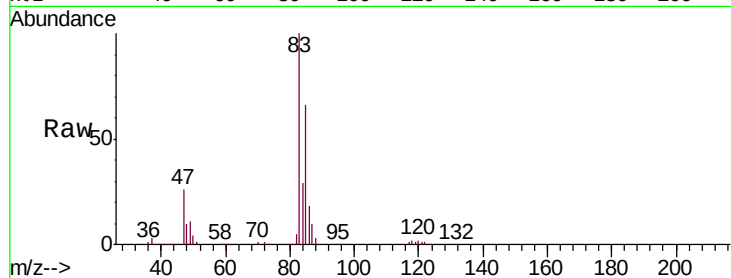
Time-->



#25
Chloroform
Concen: 84.490 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VU031401.D
Acq: 22 Apr 2019 18:37

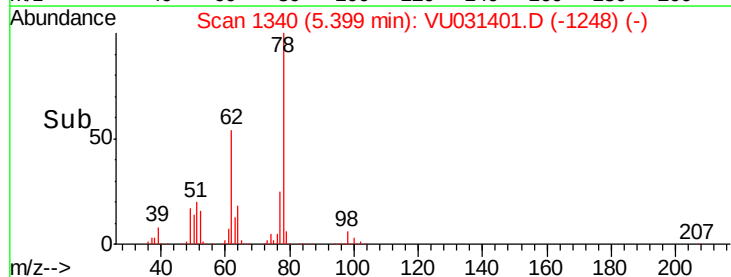
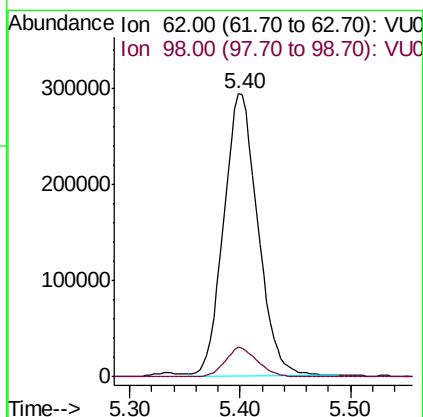
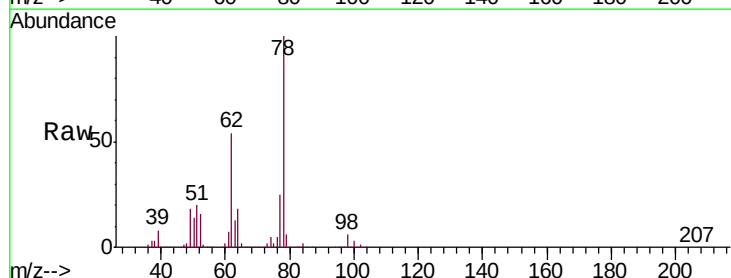
Instrument :
MSVOA_U
ClientSampleId :
VSTD10051

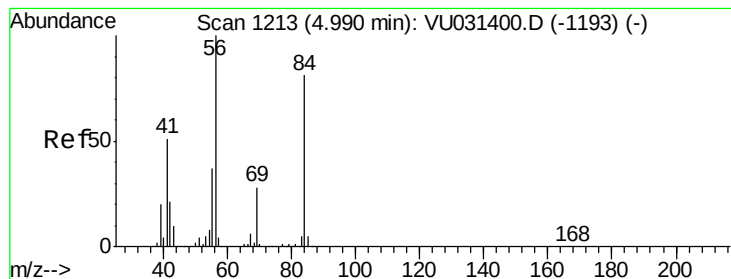
Tgt Ion: 83 Resp: 845645
Ion Ratio Lower Upper
83 100
85 65.6 43.0 79.8



#27
1,2-Dichloroethane
Concen: 83.123 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VU031401.D
Acq: 22 Apr 2019 18:37

Tgt Ion: 62 Resp: 631616
Ion Ratio Lower Upper
62 100
98 10.4 7.3 10.9





#29

Cyclohexane

Concen: 89.856 ug/L

RT: 4.99 min Scan# 1213

Delta R.T. 0.00 min

Lab File: VU031401.D

Acq: 22 Apr 2019 18:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD10051

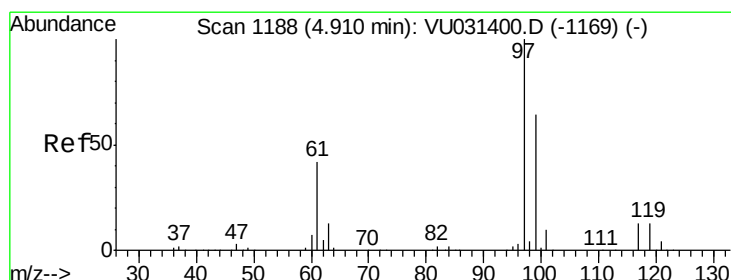
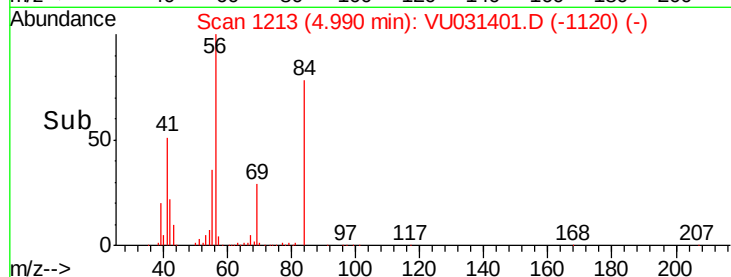
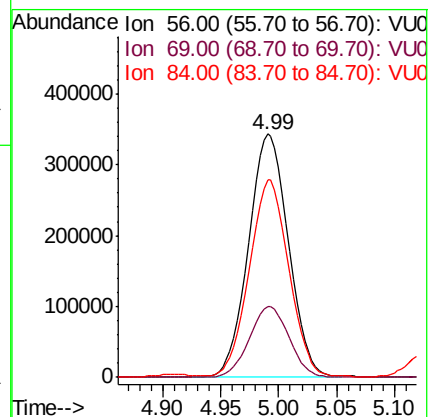
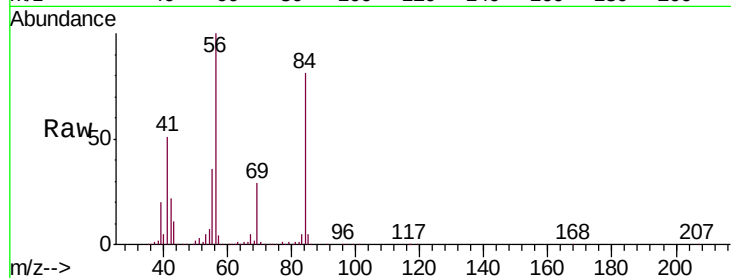
Tgt Ion: 56 Resp: 824022

Ion Ratio Lower Upper

56 100

69 29.1 23.3 34.9

84 80.2 64.6 96.8



#30

1,1,1-Trichloroethane

Concen: 82.374 ug/L

RT: 4.91 min Scan# 1188

Delta R.T. 0.00 min

Lab File: VU031401.D

Acq: 22 Apr 2019 18:37

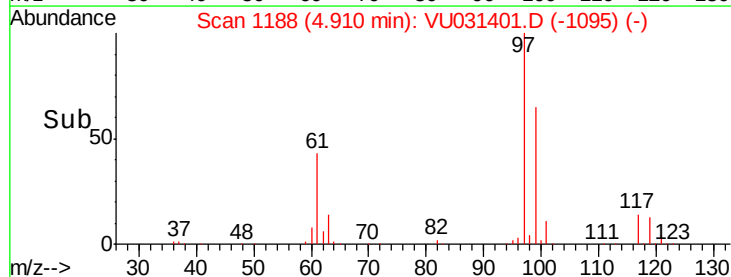
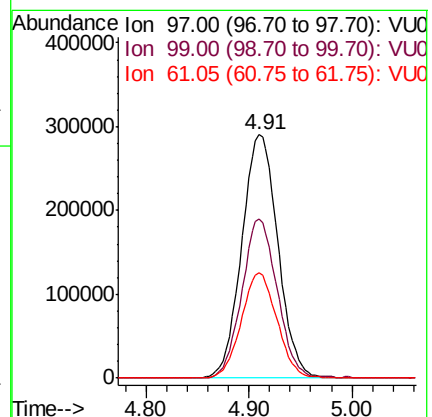
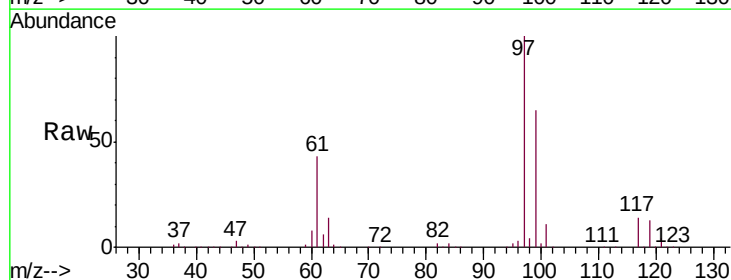
Tgt Ion: 97 Resp: 707924

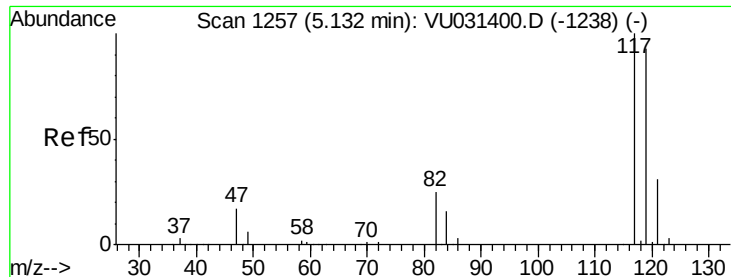
Ion Ratio Lower Upper

97 100

99 63.9 52.0 78.0

61 42.8 33.9 50.9





#31

Carbon tetrachloride

Concen: 81.602 ug/L

RT: 5.13 min Scan# 1257

Delta R.T. 0.00 min

Lab File: VU031401.D

Acq: 22 Apr 2019 18:37

Instrument :

MSVOA_U

ClientSampleId :

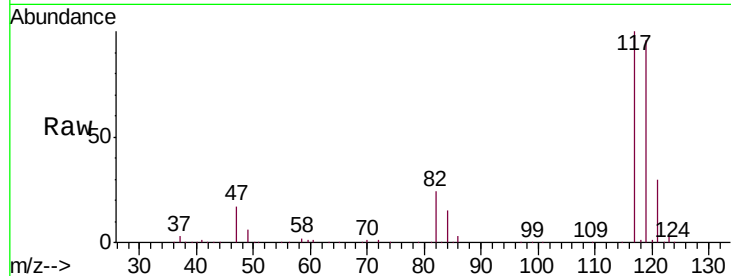
VSTD10051

Tgt Ion:117 Resp: 606039

Ion Ratio Lower Upper

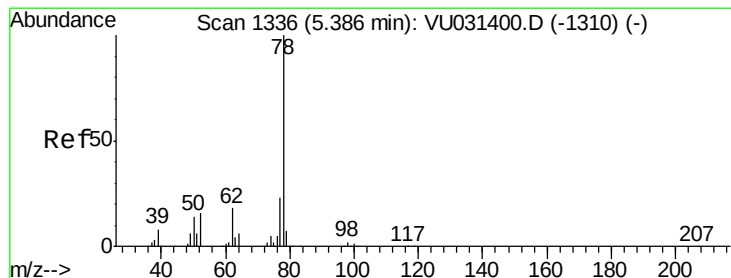
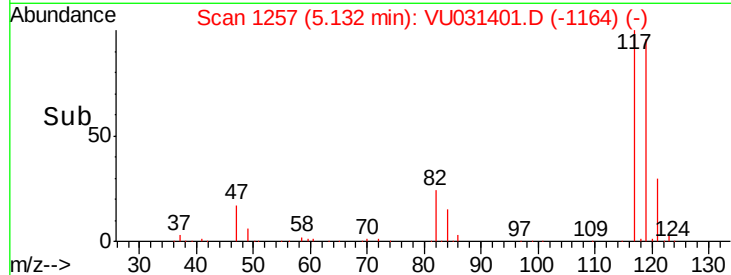
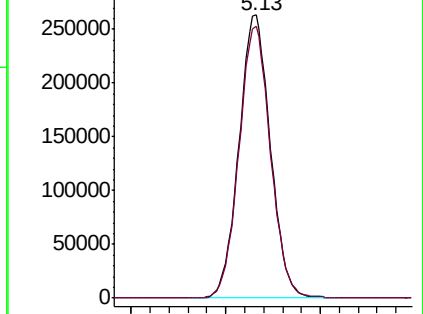
117 100

119 96.6 76.2 114.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 86.708 ug/L

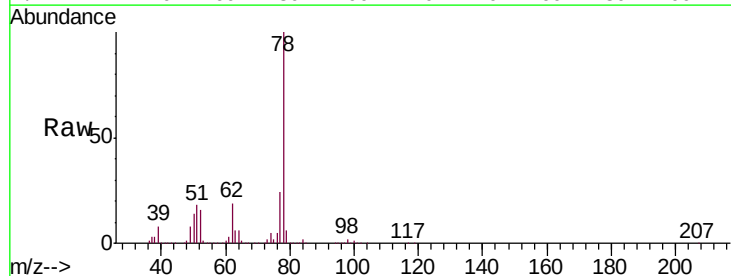
RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU031401.D

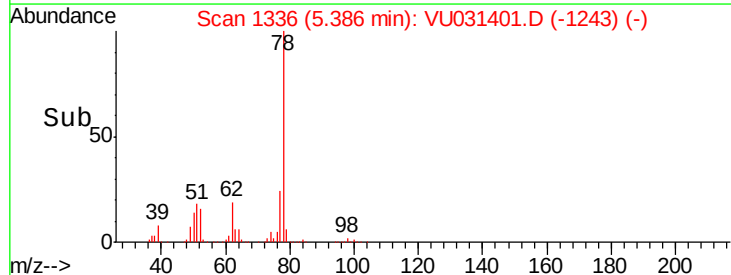
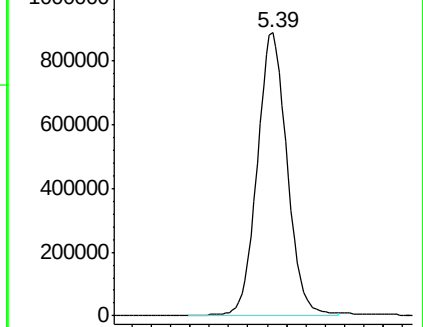
Acq: 22 Apr 2019 18:37

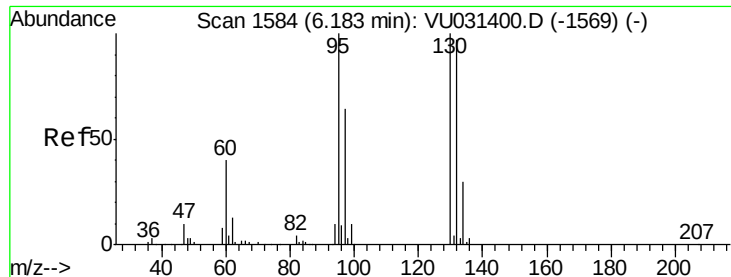
Tgt Ion: 78 Resp: 1908525



Abundance Ion 78.00 (77.70 to 78.70): VU0

Ion 77.00 (76.70 to 77.70): VU0





#34

Trichloroethene

Concen: 88.661 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VU031401.D

Acq: 22 Apr 2019 18:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD10051

Tgt Ion: 95 Resp: 493379

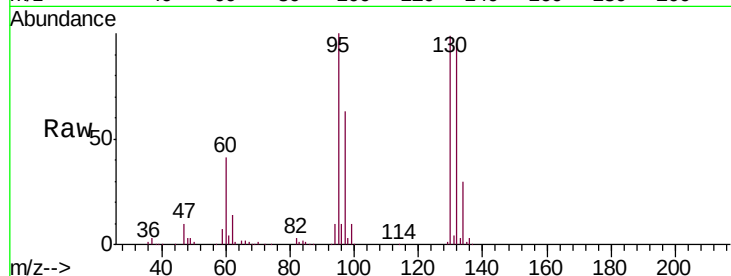
Ion Ratio Lower Upper

95 100

97 62.8 44.9 83.5

132 95.2 68.0 126.2

130 98.7 70.1 130.1



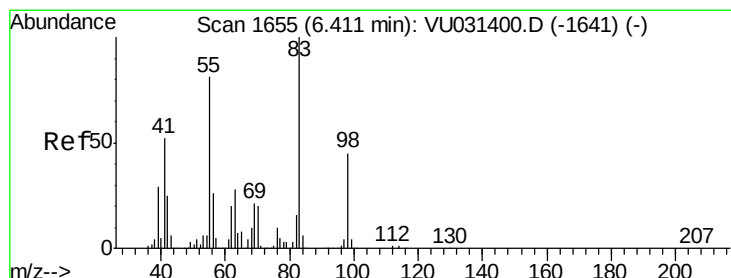
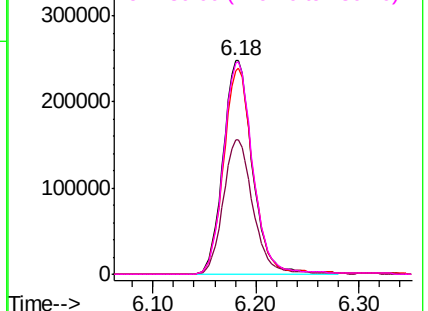
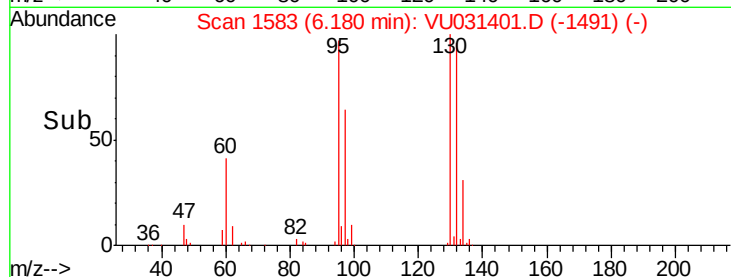
Abundance Ion 95.00 (94.70 to 95.70): VU031401.D (-1569) (-)

Ion 97.00 (96.70 to 97.70): VU031401.D (-1569) (-)

Ion 132.00 (131.70 to 132.70): VU031401.D (-1569) (-)

Ion 130.00 (129.70 to 130.70): VU031401.D (-1569) (-)

Time-->



#35

Methylcyclohexane

Concen: 90.350 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU031401.D

Acq: 22 Apr 2019 18:37

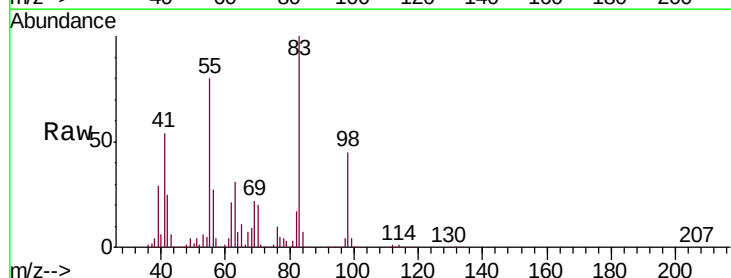
Tgt Ion: 83 Resp: 750397

Ion Ratio Lower Upper

83 100

55 80.3 65.4 98.0

98 45.4 36.8 55.2

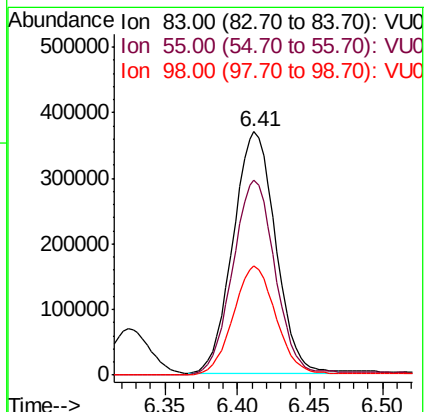
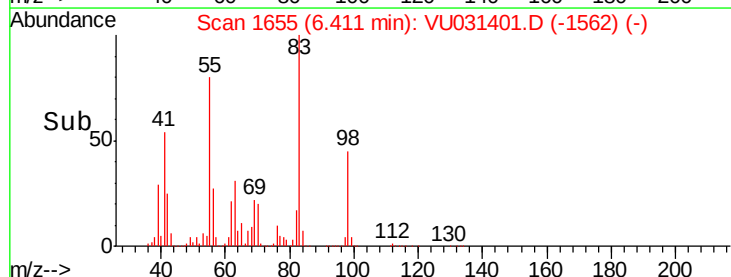


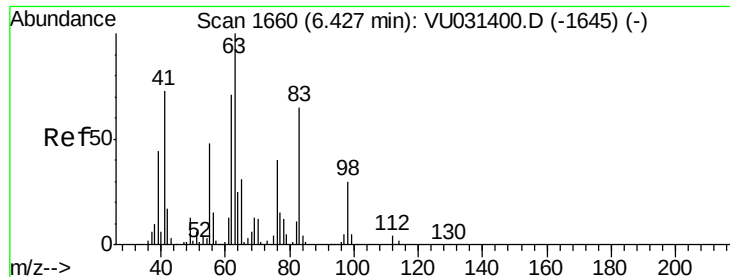
Abundance Ion 83.00 (82.70 to 83.70): VU031401.D (-1562) (-)

Ion 55.00 (54.70 to 55.70): VU031401.D (-1562) (-)

Ion 98.00 (97.70 to 98.70): VU031401.D (-1562) (-)

Time-->

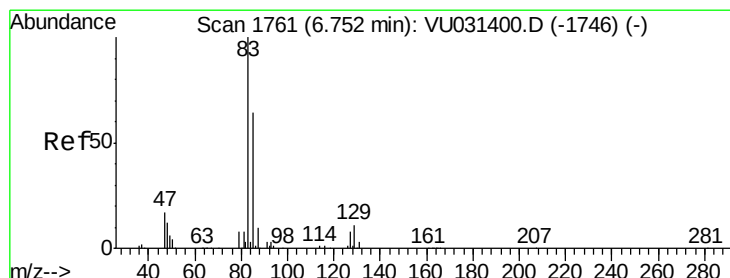
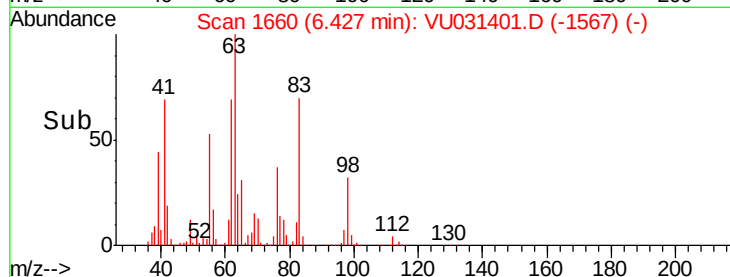
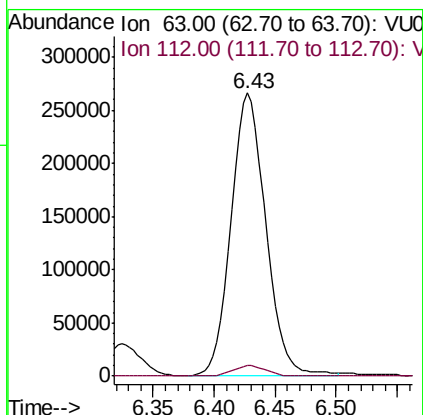
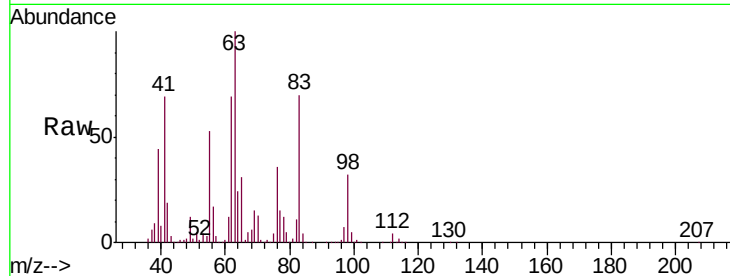




#37
 1,2-Dichloropropane
 Concen: 89.016 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU031401.D
 Acq: 22 Apr 2019 18:37

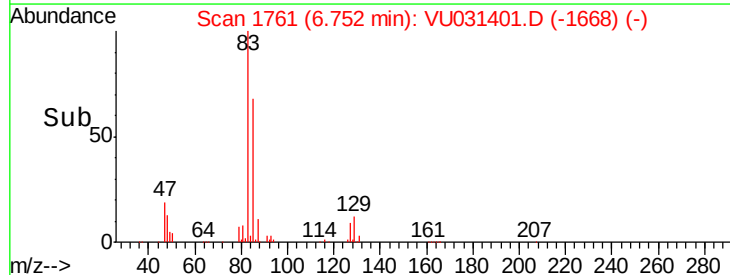
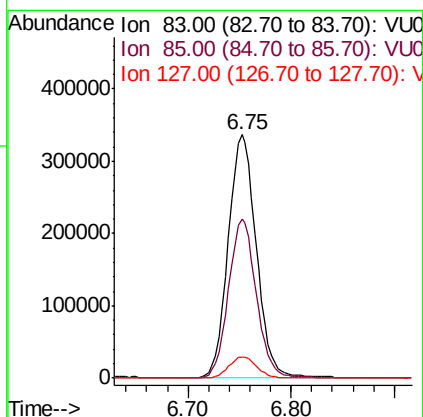
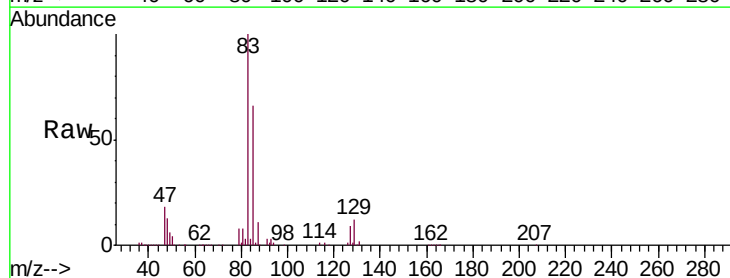
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10051

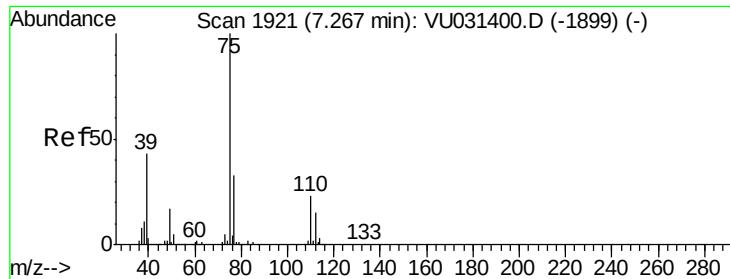
Tgt Ion: 63 Resp: 522808
 Ion Ratio Lower Upper
 63 100
 112 3.7 3.0 4.4



#38
 Bromodichloromethane
 Concen: 85.923 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. 0.00 min
 Lab File: VU031401.D
 Acq: 22 Apr 2019 18:37

Tgt Ion: 83 Resp: 636809
 Ion Ratio Lower Upper
 83 100
 85 65.6 45.0 83.6
 127 8.8 6.7 10.1





#39

cis-1,3-Dichloropropene

Concen: 93.210 ug/L

RT: 7.26 min Scan# 1920

Delta R.T. -0.00 min

Lab File: VU031401.D

Acq: 22 Apr 2019 18:37

Instrument :

MSVOA_U

ClientSampleId :

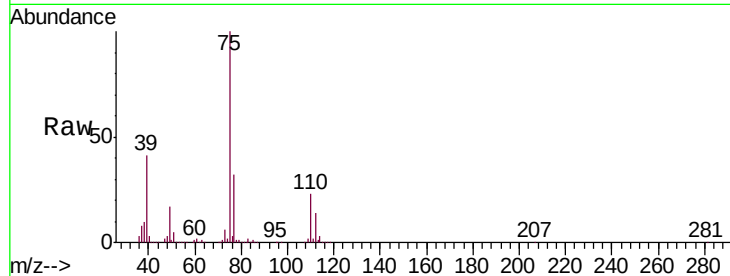
VSTD10051

Tgt Ion: 75 Resp: 825139

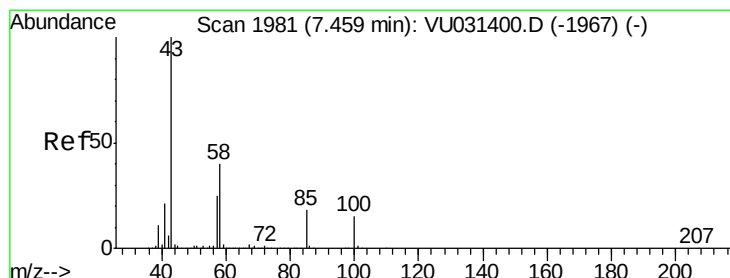
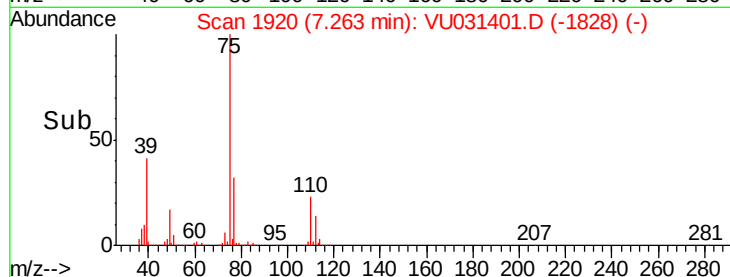
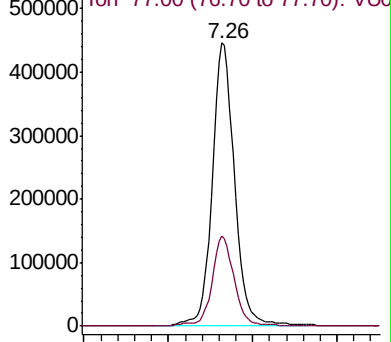
Ion Ratio Lower Upper

75 100

77 31.7 23.0 42.8



Abundance Ion 75.00 (74.70 to 75.70): VU031401.D (-1899) (-)



#40

4-Methyl-2-pentanone

Concen: 190.428 ug/L

RT: 7.46 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VU031401.D

Acq: 22 Apr 2019 18:37

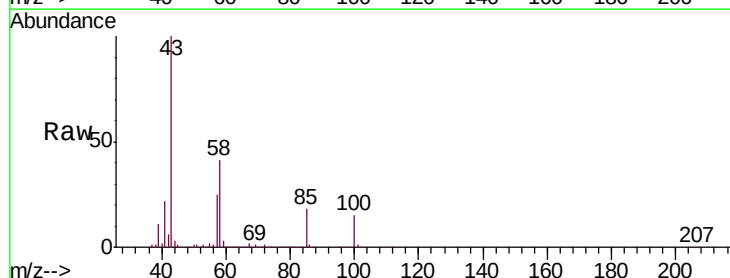
Tgt Ion: 43 Resp: 1589379

Ion Ratio Lower Upper

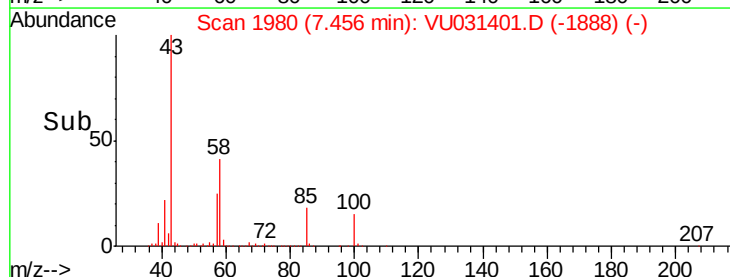
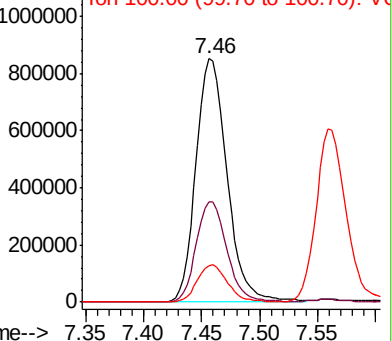
43 100

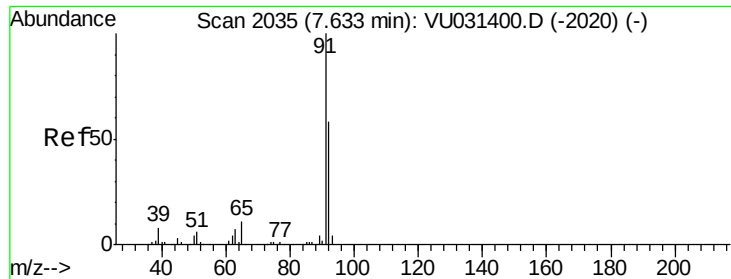
58 40.7 32.3 48.5

100 14.9 11.8 17.8



Abundance Ion 43.00 (42.70 to 43.70): VU031401.D (-1899) (-)





#42

Toluene

Concen: 91.717 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU031401.D

Acq: 22 Apr 2019 18:37

Instrument :

MSVOA_U

ClientSampleId :

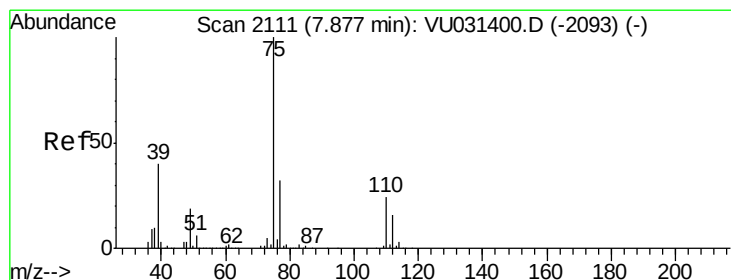
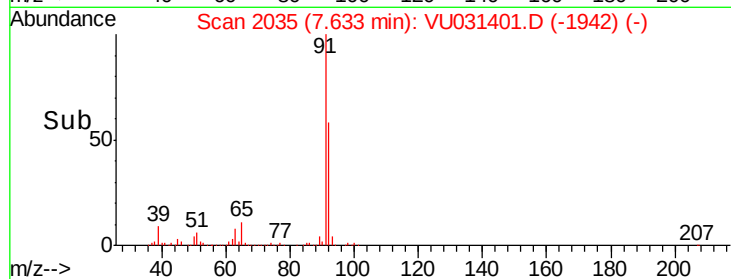
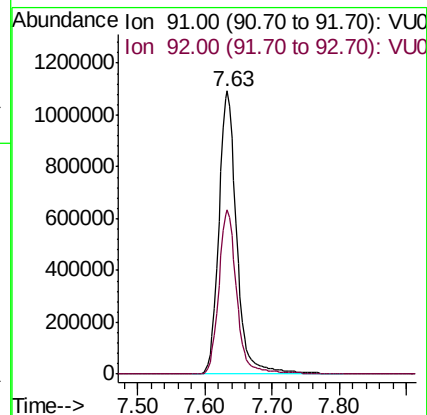
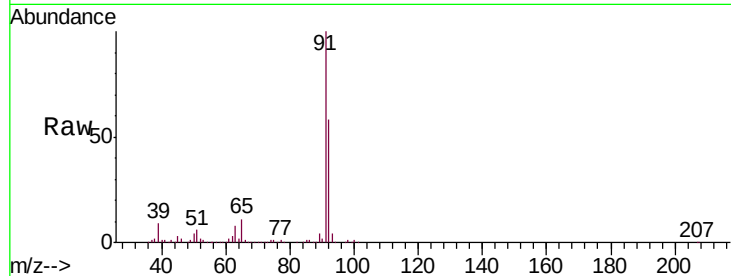
VSTD10051

Tgt Ion: 91 Resp: 2035233

Ion Ratio Lower Upper

91 100

92 58.2 40.6 75.4



#44

trans-1,3-Dichloropropene

Concen: 91.750 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VU031401.D

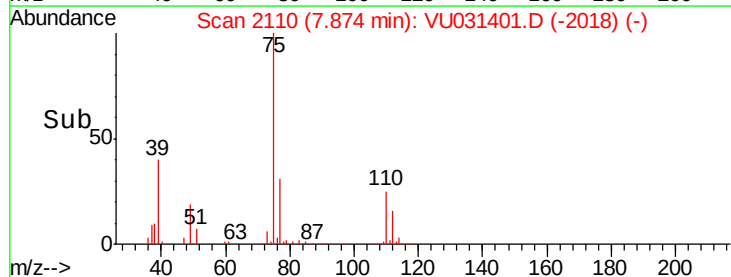
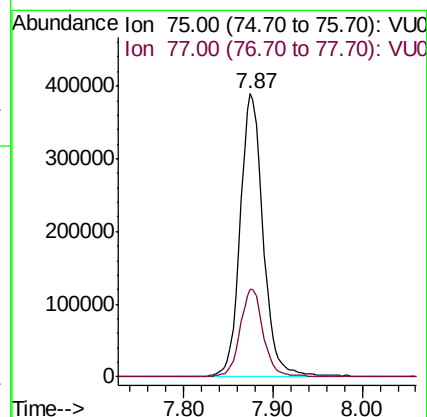
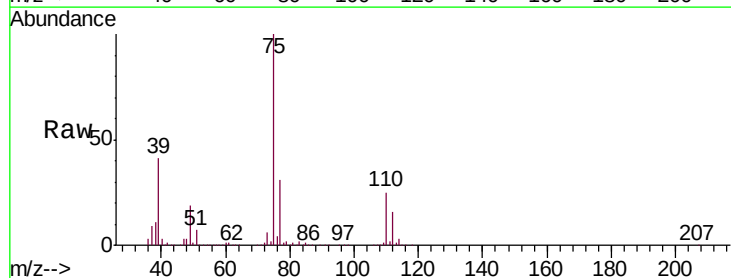
Acq: 22 Apr 2019 18:37

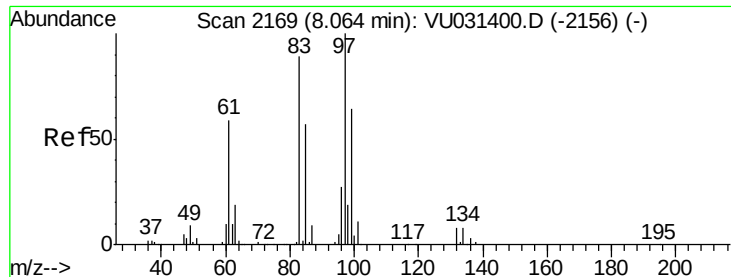
Tgt Ion: 75 Resp: 697753

Ion Ratio Lower Upper

75 100

77 30.8 22.3 41.3

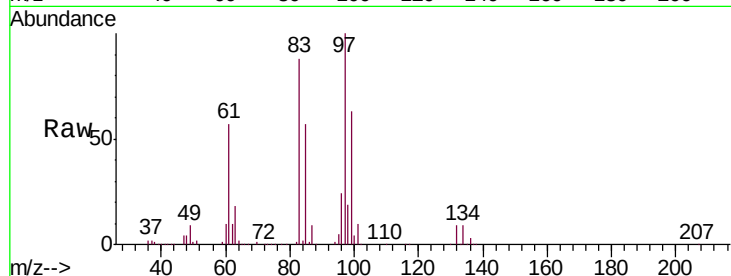




#45
 1,1,2-Trichloroethane
 Concen: 90.648 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU031401.D
 Acq: 22 Apr 2019 18:37

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10051

Tgt Ion:	97	Resp:	478911
Ion	Ratio	Lower	Upper
97	100		
99	62.8	44.9	83.3
83	87.7	62.5	116.1
85	57.4	39.6	73.6



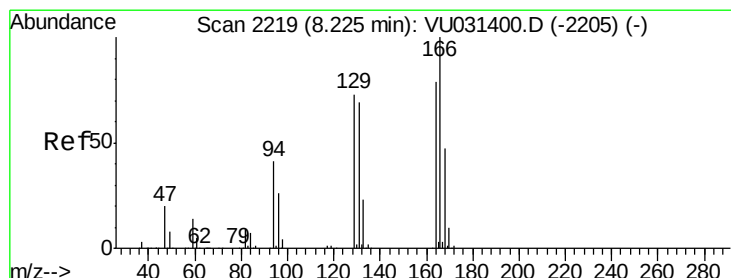
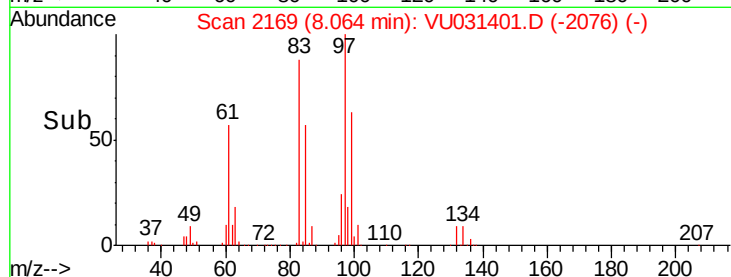
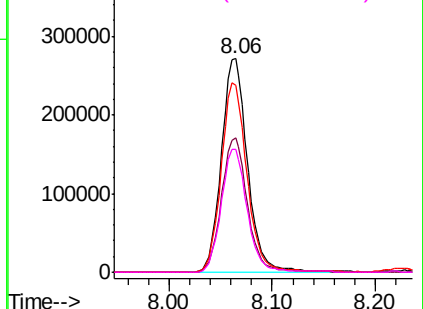
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

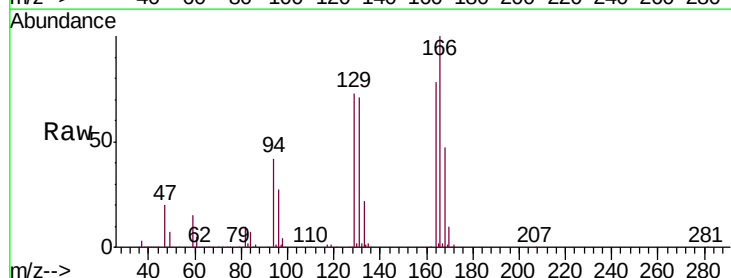
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 89.136 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. -0.00 min
 Lab File: VU031401.D
 Acq: 22 Apr 2019 18:37

Tgt Ion:	164	Resp:	371743
Ion	Ratio	Lower	Upper
164	100		
129	93.0	65.2	121.0
131	90.3	61.4	114.0
166	128.0	89.2	165.6



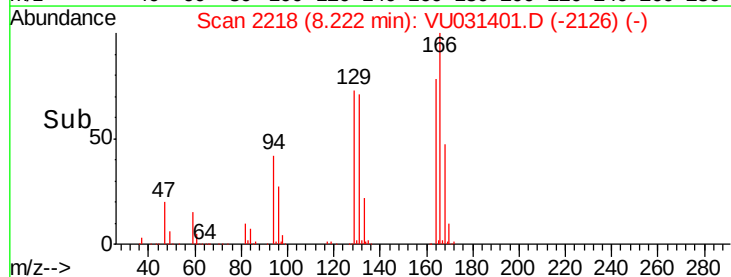
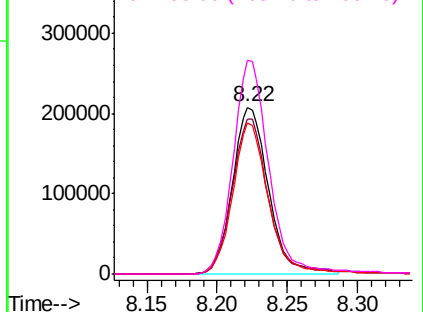
Abundance

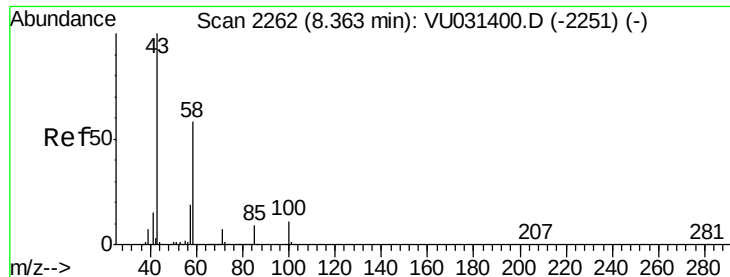
Ion 164.00 (163.70 to 164.70): V

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

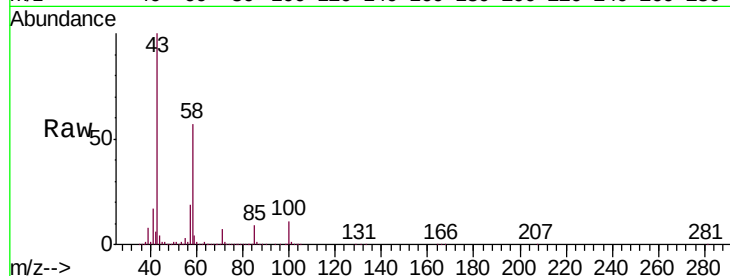




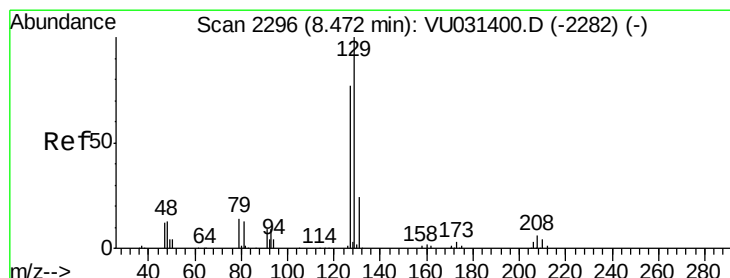
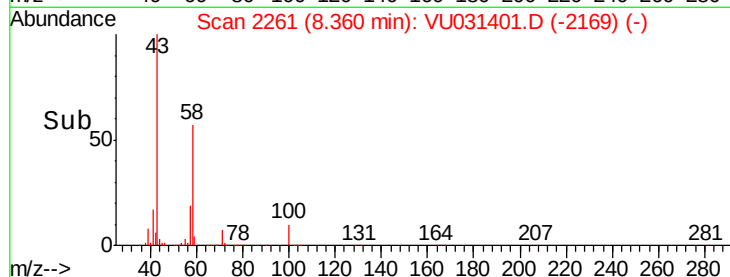
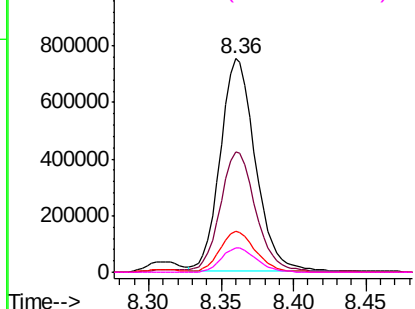
#48
2-Hexanone
Concen: 190.568 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. -0.00 min
Lab File: VU031401.D
Acq: 22 Apr 2019 18:37

Instrument :
MSVOA_U
ClientSampleId :
VSTD10051

Tgt Ion: 43 Resp: 1263236
Ion Ratio Lower Upper
43 100
58 58.1 45.5 68.3
57 19.6 15.2 22.8
100 11.7 9.1 13.7

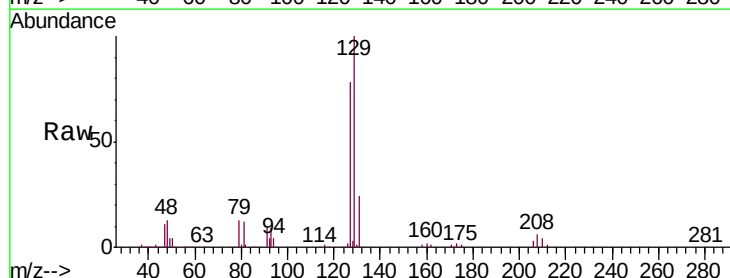


Abundance Ion 43.00 (42.70 to 43.70): VU031401.D (-2262) (-)
Ion 58.00 (57.70 to 58.70): VU031401.D (-2262) (-)
Ion 57.00 (56.70 to 57.70): VU031401.D (-2262) (-)
Ion 100.00 (99.70 to 100.70): VU031401.D (-2262) (-)

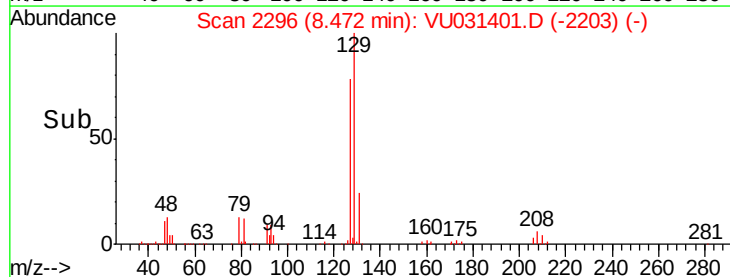
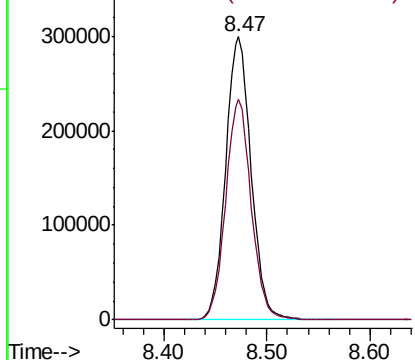


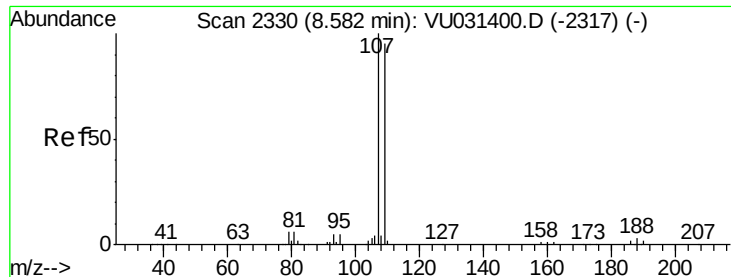
#49
Dibromochloromethane
Concen: 90.400 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU031401.D
Acq: 22 Apr 2019 18:37

Tgt Ion: 129 Resp: 515577
Ion Ratio Lower Upper
129 100
127 77.9 54.2 100.6



Abundance Ion 129.00 (128.70 to 129.70): VU031401.D (-2297) (-)
Ion 127.00 (126.70 to 127.70): VU031401.D (-2297) (-)

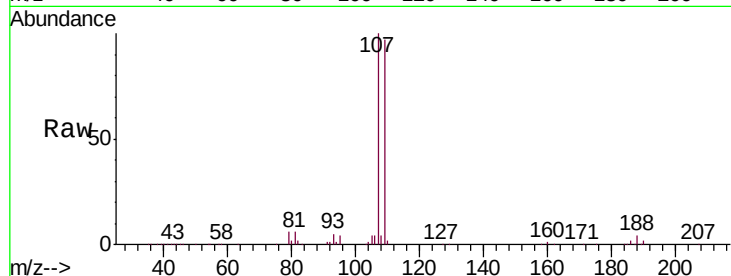




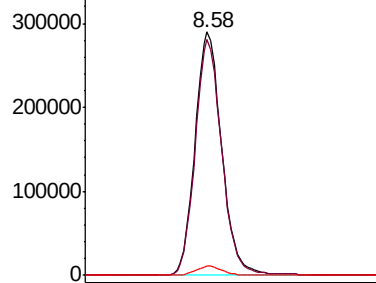
#50
1,2-Dibromoethane
Concen: 90.714 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU031401.D
Acq: 22 Apr 2019 18:37

Instrument :
MSVOA_U
ClientSampleId :
VSTD10051

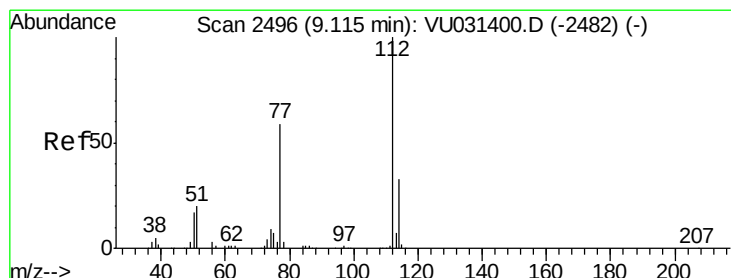
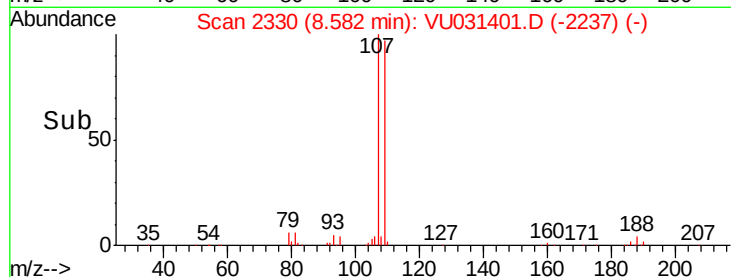
Tgt Ion:107 Resp: 508322
Ion Ratio Lower Upper
107 100
109 96.8 66.6 123.8
188 3.8 2.6 4.0



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

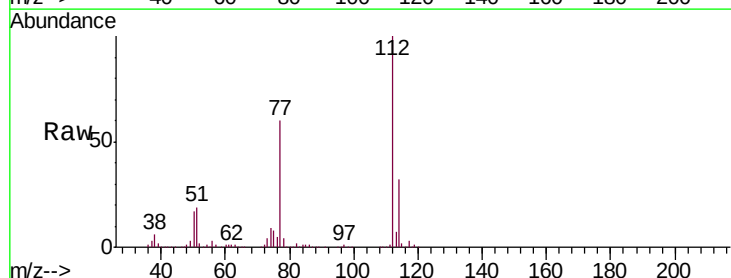


Time-->

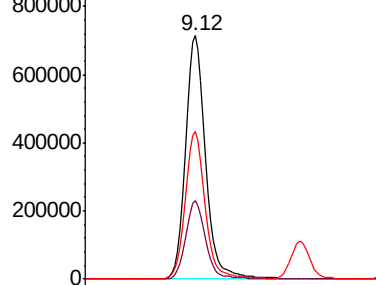


#51
Chlorobenzene
Concen: 89.984 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. 0.00 min
Lab File: VU031401.D
Acq: 22 Apr 2019 18:37

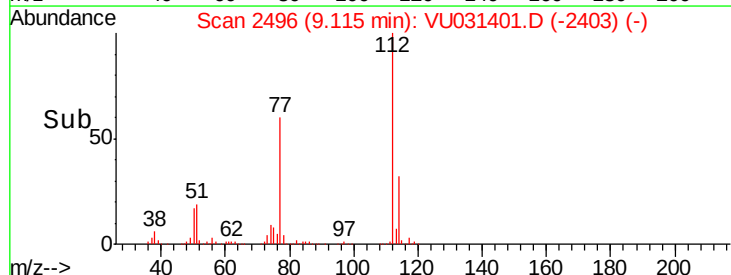
Tgt Ion:112 Resp: 1244430
Ion Ratio Lower Upper
112 100
114 32.3 23.0 42.8
77 60.4 47.1 70.7

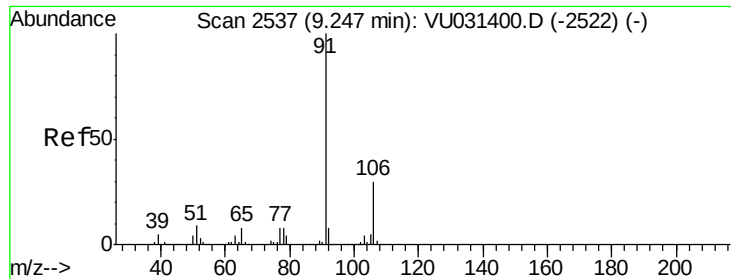


Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V



Time-->





#52

Ethylbenzene

Concen: 91.075 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. -0.00 min

Lab File: VU031401.D

Acq: 22 Apr 2019 18:37

Instrument :

MSVOA_U

ClientSampleId :

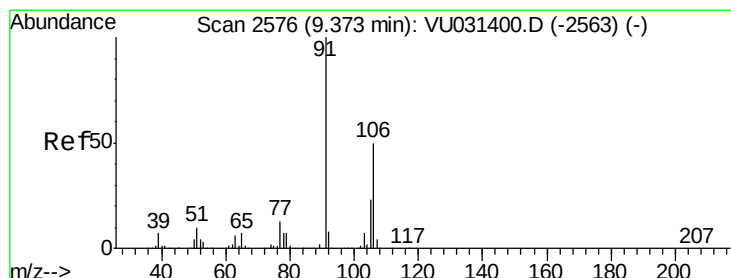
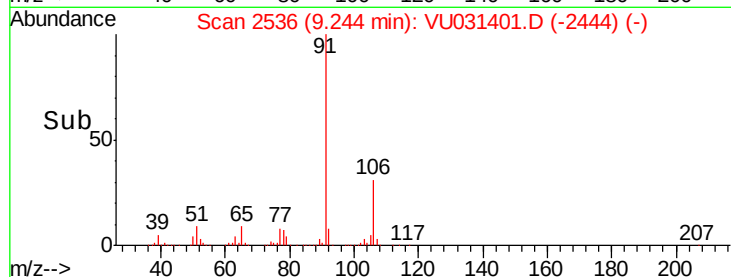
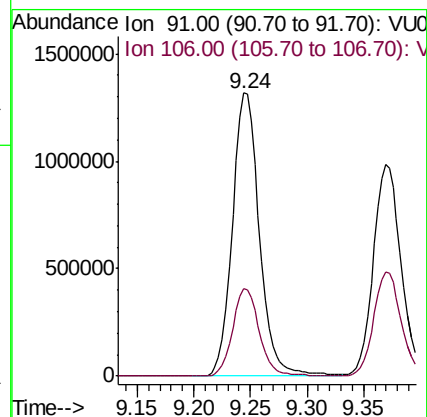
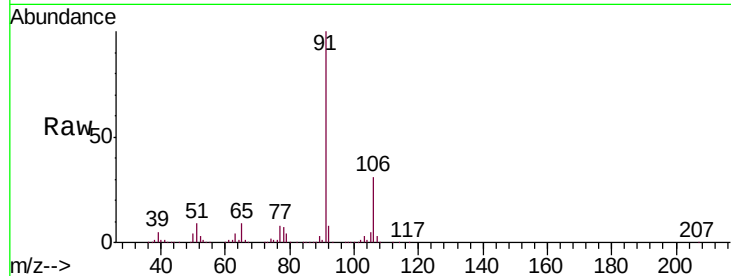
VSTD10051

Tgt Ion: 91 Resp: 2194317

Ion Ratio Lower Upper

91 100

106 30.9 21.3 39.5



#53

m,p-Xylene

Concen: 96.580 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. -0.00 min

Lab File: VU031401.D

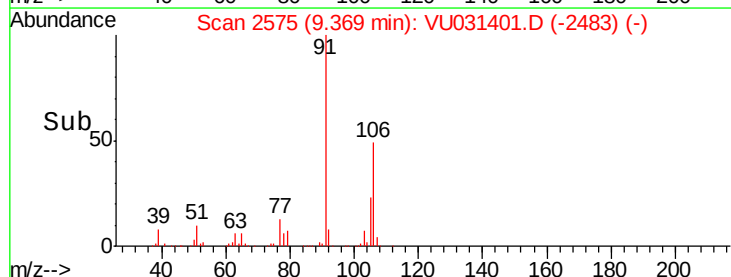
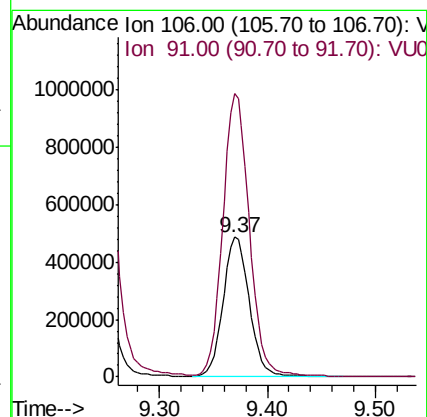
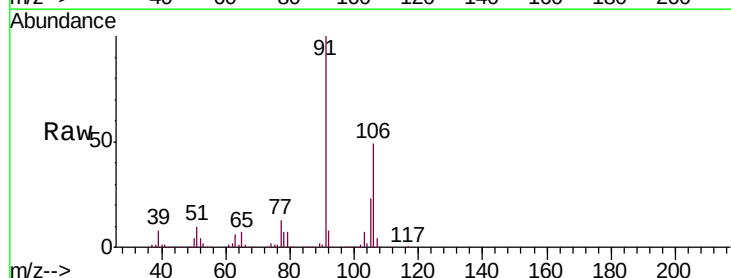
Acq: 22 Apr 2019 18:37

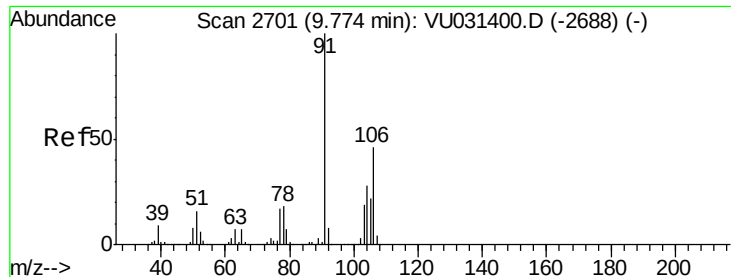
Tgt Ion: 106 Resp: 824349

Ion Ratio Lower Upper

106 100

91 203.0 141.5 262.7





#54

o-xylene

Concen: 94.992 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU031401.D

Acq: 22 Apr 2019 18:37

Instrument :

MSVOA_U

ClientSampleId :

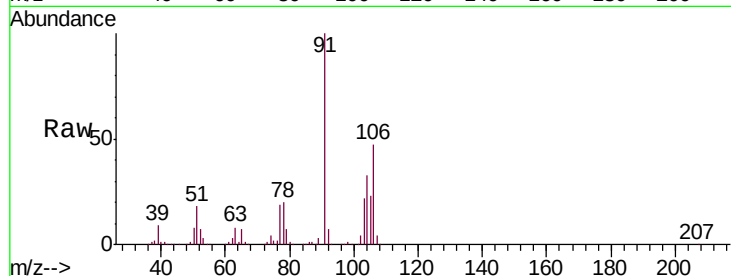
VSTD10051

Tgt Ion:106 Resp: 822183

Ion Ratio Lower Upper

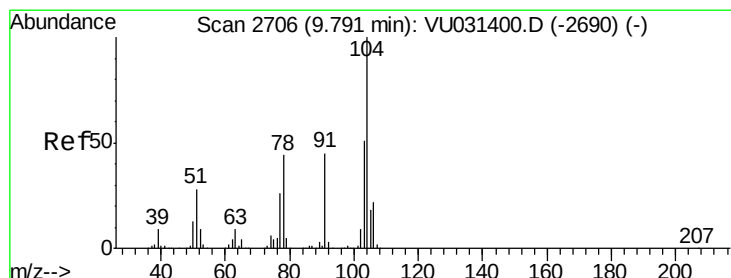
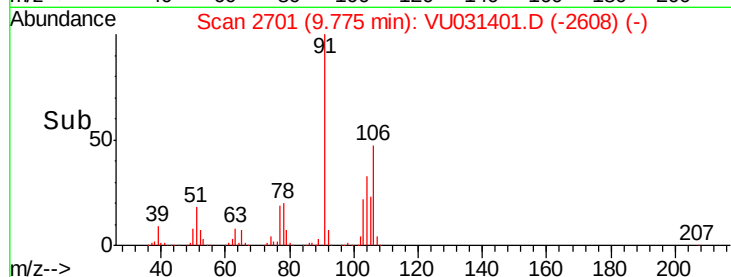
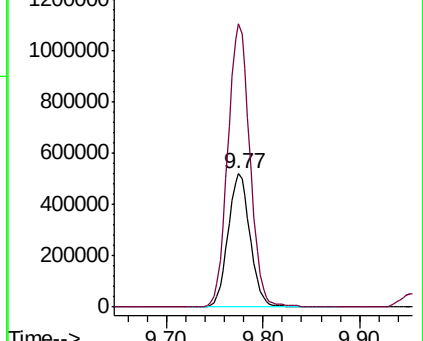
106 100

91 212.4 152.4 283.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 97.558 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. -0.00 min

Lab File: VU031401.D

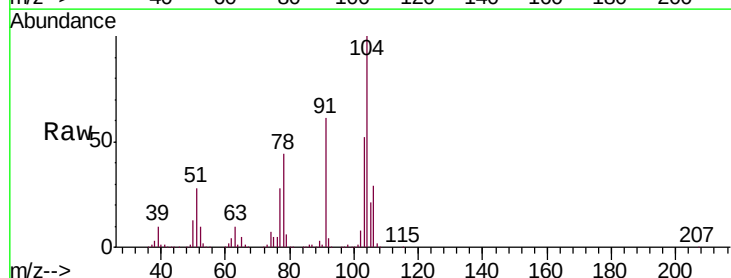
Acq: 22 Apr 2019 18:37

Tgt Ion:104 Resp: 1414364

Ion Ratio Lower Upper

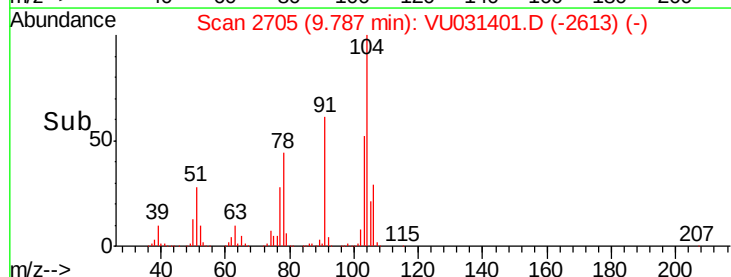
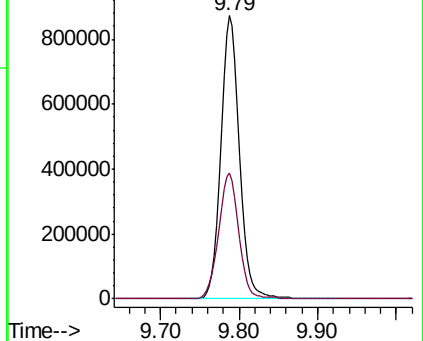
104 100

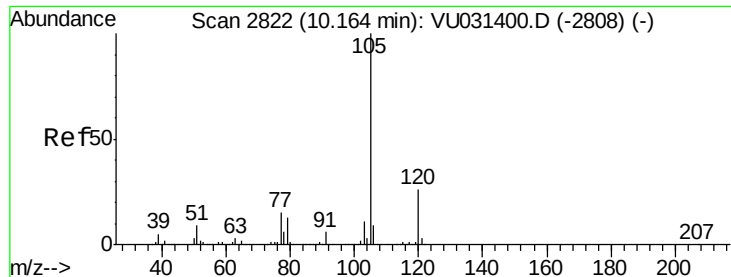
78 44.3 31.1 57.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 96.554 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. -0.00 min

Lab File: VU031401.D

Acq: 22 Apr 2019 18:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD10051

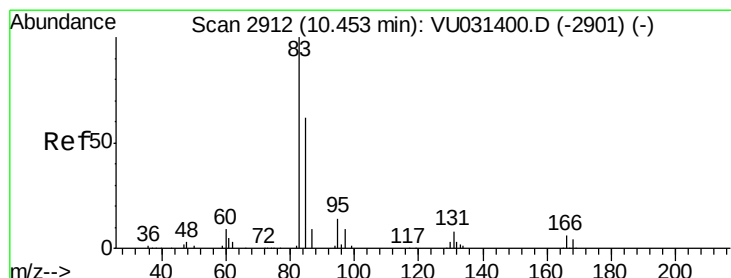
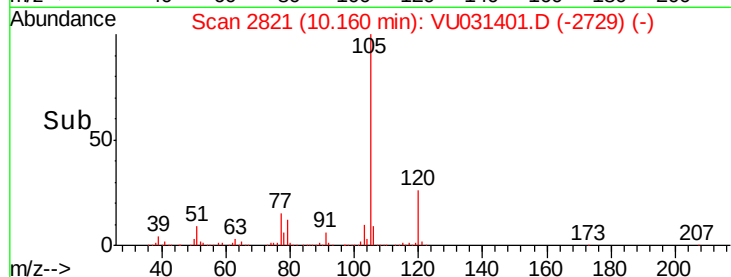
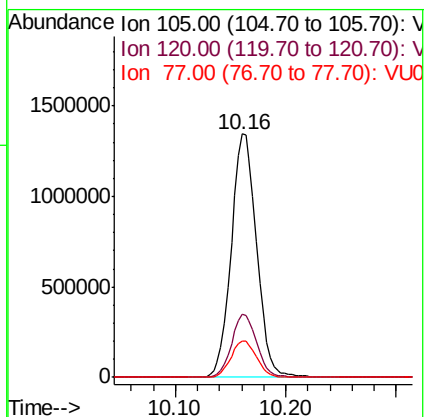
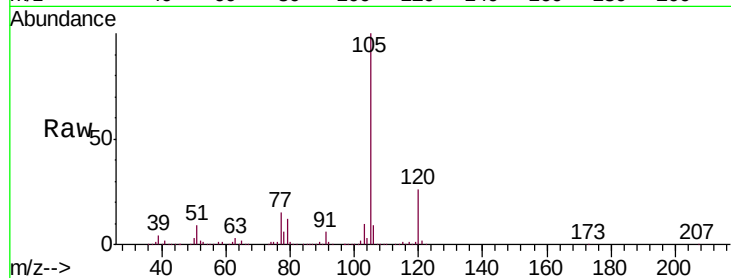
Tgt Ion:105 Resp: 2141343

Ion Ratio Lower Upper

105 100

120 25.7 20.7 31.1

77 15.1 12.2 18.2



#58

1,1,2,2-Tetrachloroethane

Concen: 89.576 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU031401.D

Acq: 22 Apr 2019 18:37

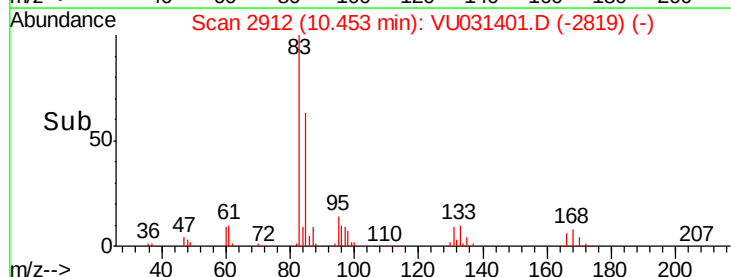
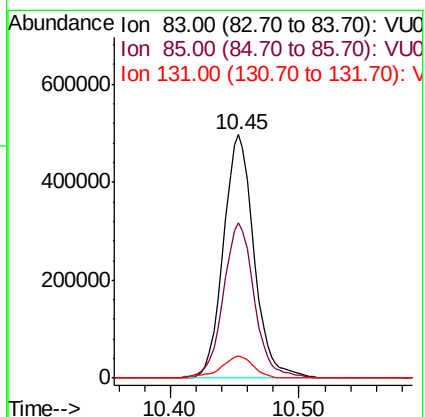
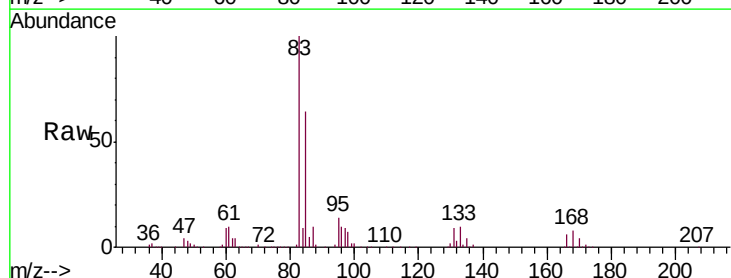
Tgt Ion: 83 Resp: 816644

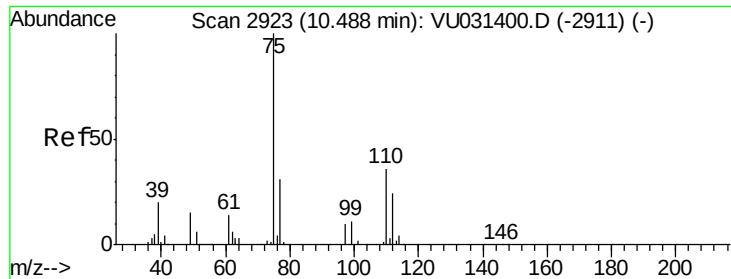
Ion Ratio Lower Upper

83 100

85 63.5 44.5 82.7

131 9.2 7.0 10.6

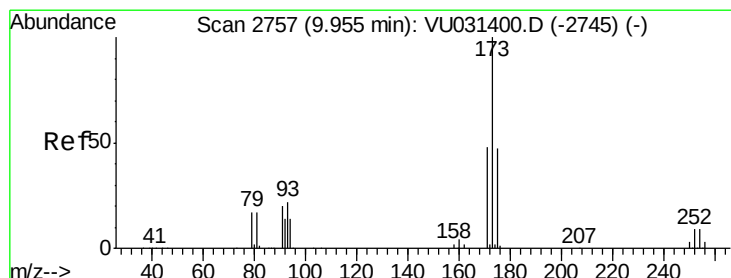
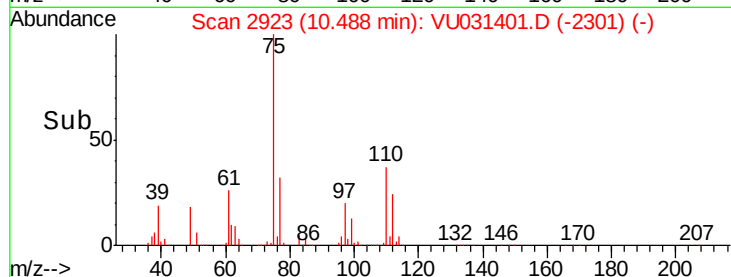
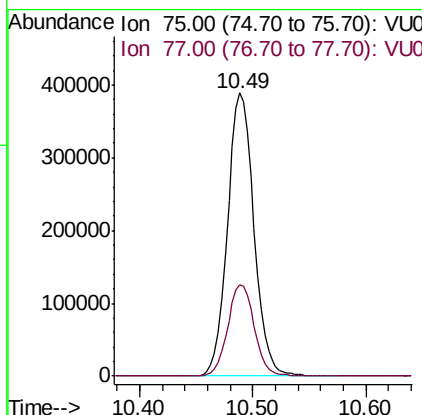
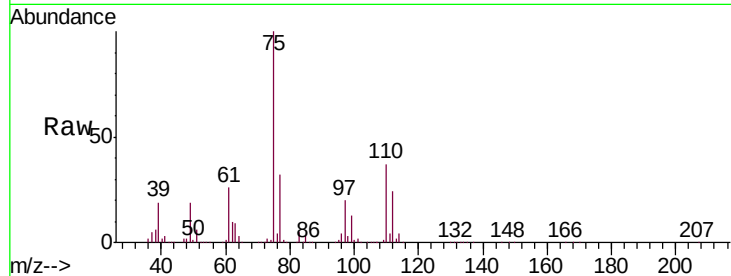




#59
 1,2,3-Trichloropropane
 Concen: 90.132 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. 0.00 min
 Lab File: VU031401.D
 Acq: 22 Apr 2019 18:37

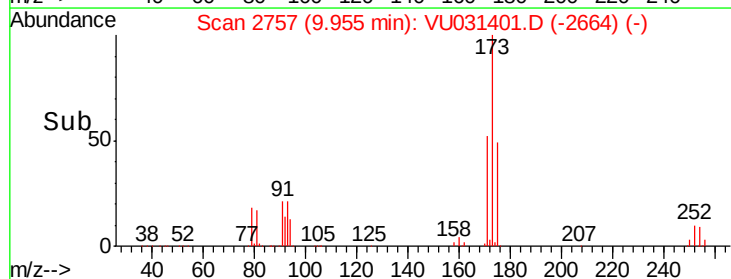
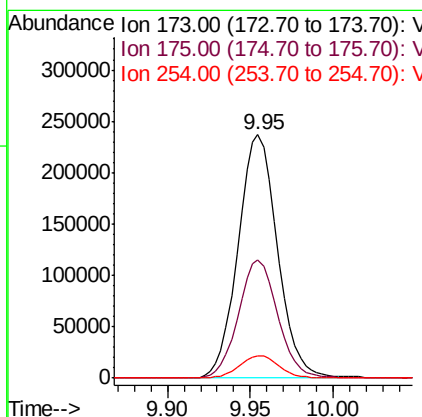
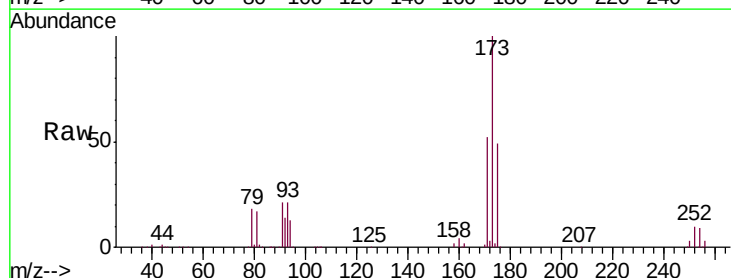
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10051

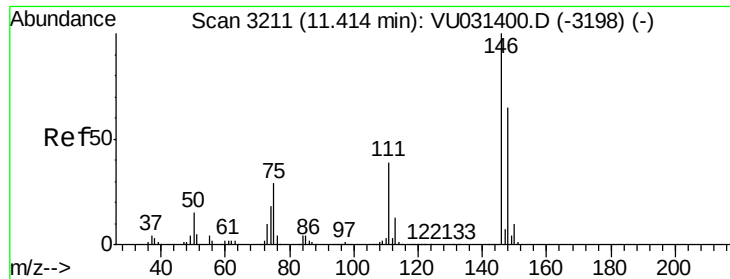
Tgt Ion: 75 Resp: 632751
 Ion Ratio Lower Upper
 75 100
 77 32.5 25.6 38.4



#61
 Bromoform
 Concen: 88.936 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. 0.00 min
 Lab File: VU031401.D
 Acq: 22 Apr 2019 18:37

Tgt Ion: 173 Resp: 391576
 Ion Ratio Lower Upper
 173 100
 175 48.8 38.6 57.8
 254 9.4 7.7 11.5





#62

1,3-Dichlorobenzene

Concen: 90.839 ug/L

RT: 11.41 min Scan# 3210

Delta R.T. -0.00 min

Lab File: VU031401.D

Acq: 22 Apr 2019 18:37

Instrument :

MSVOA_U

ClientSampled :

VSTD10051

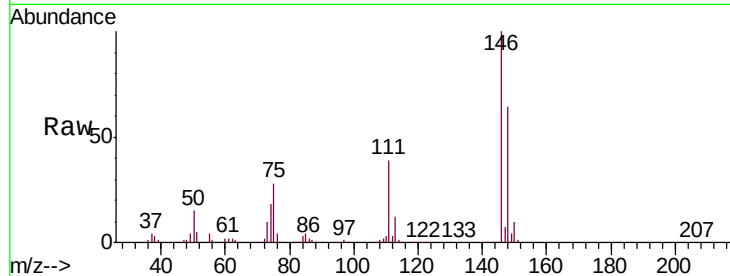
Tgt Ion:146 Resp: 962026

Ion Ratio Lower Upper

146 100

111 38.8 27.4 50.8

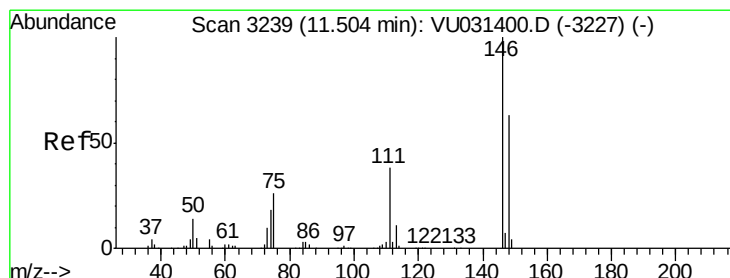
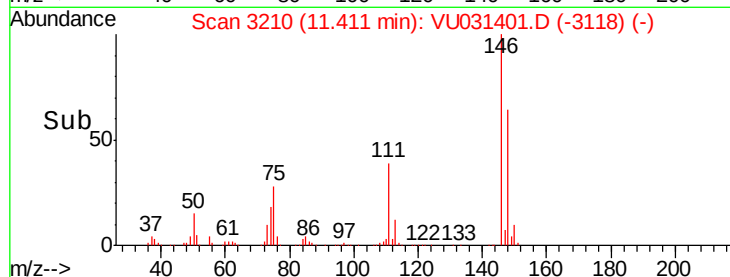
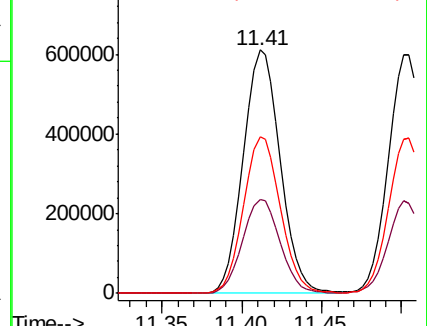
148 64.4 45.4 84.4



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



#63

1,4-Dichlorobenzene

Concen: 90.516 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU031401.D

Acq: 22 Apr 2019 18:37

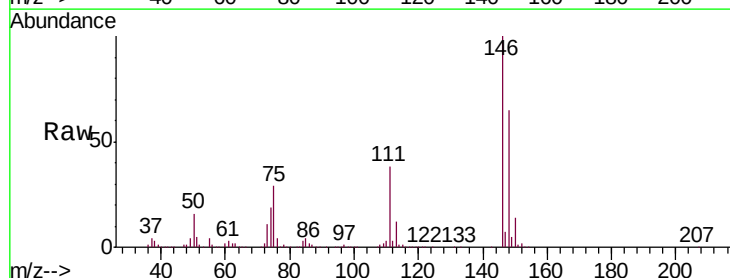
Tgt Ion:146 Resp: 957888

Ion Ratio Lower Upper

146 100

111 37.7 26.6 49.4

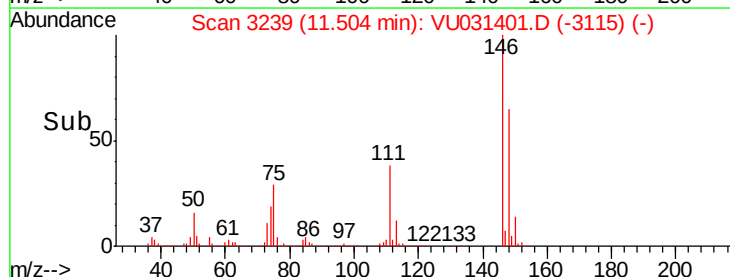
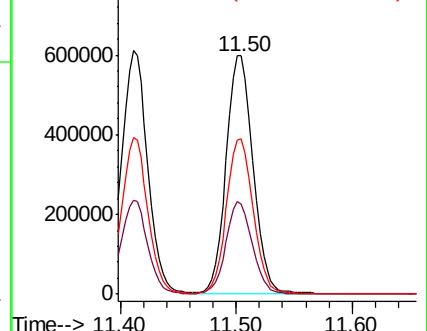
148 65.0 44.4 82.5

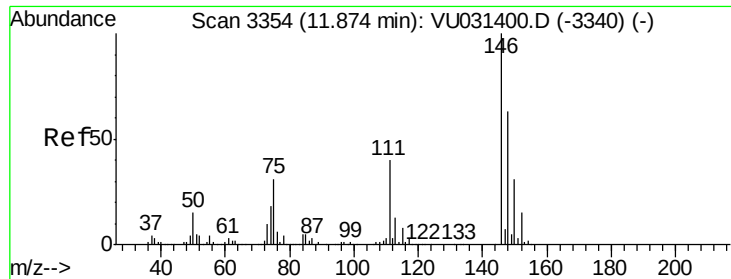


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

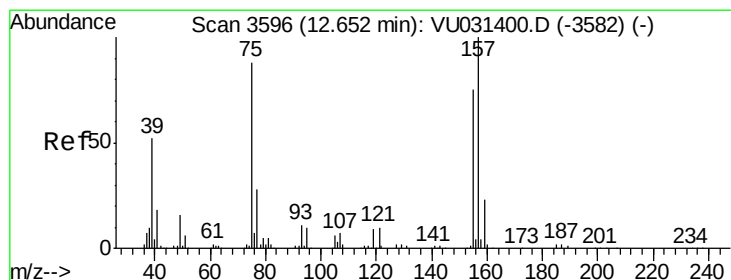
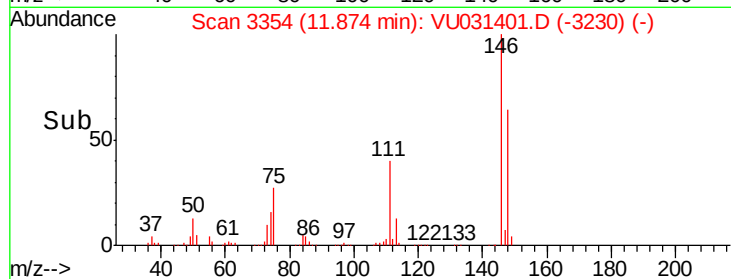
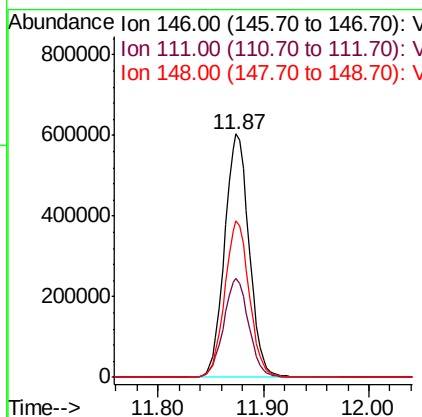
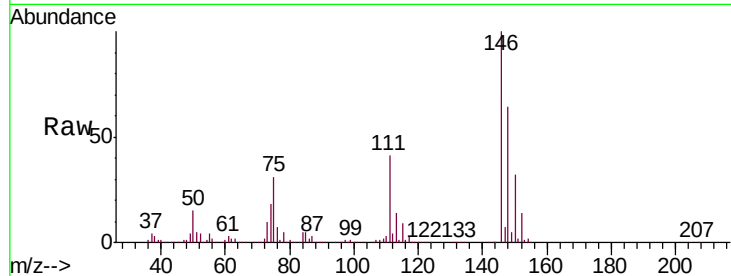




#65
 1,2-Dichlorobenzene
 Concen: 87.302 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU031401.D
 Acq: 22 Apr 2019 18:37

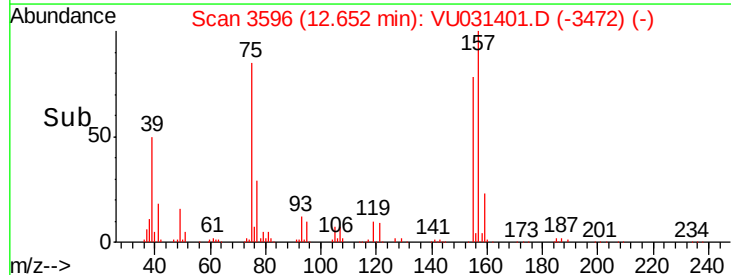
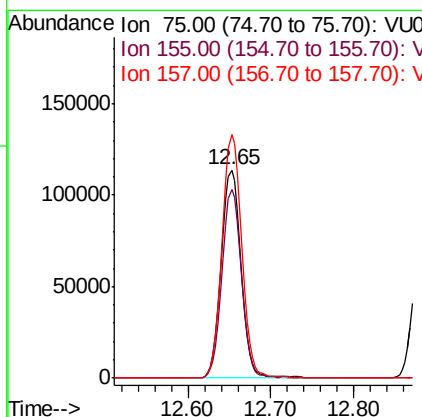
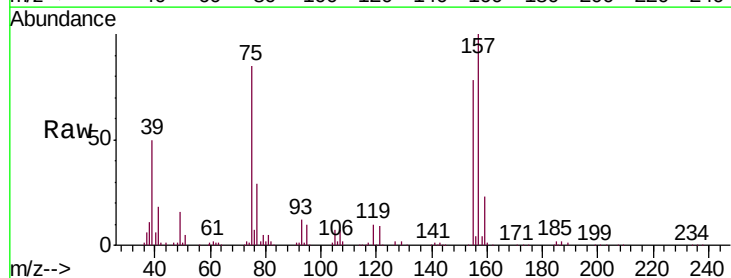
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10051

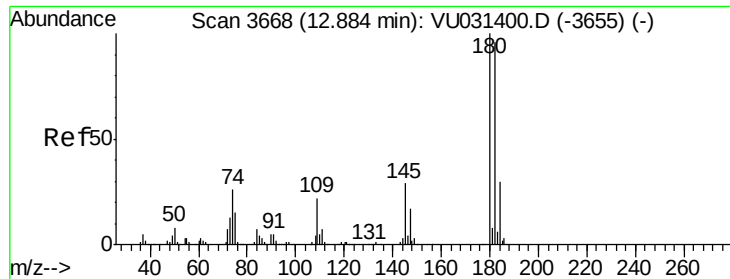
Tgt Ion: 146 Resp: 969471
 Ion Ratio Lower Upper
 146 100
 111 40.6 32.4 48.6
 148 64.3 50.7 76.1



#66
 1,2-Dibromo-3-chloropropane
 Concen: 88.335 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU031401.D
 Acq: 22 Apr 2019 18:37

Tgt Ion: 75 Resp: 187742
 Ion Ratio Lower Upper
 75 100
 155 91.0 68.8 103.2
 157 117.1 91.4 137.2

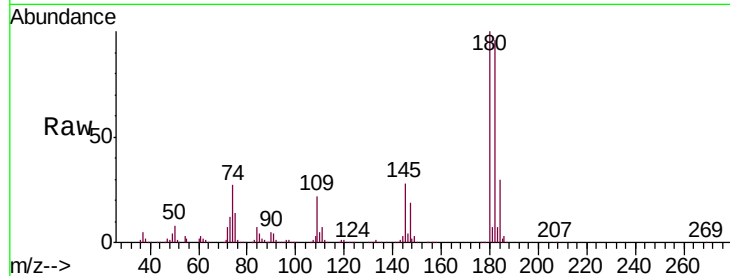




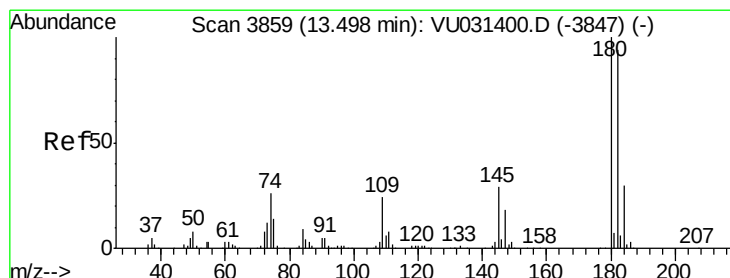
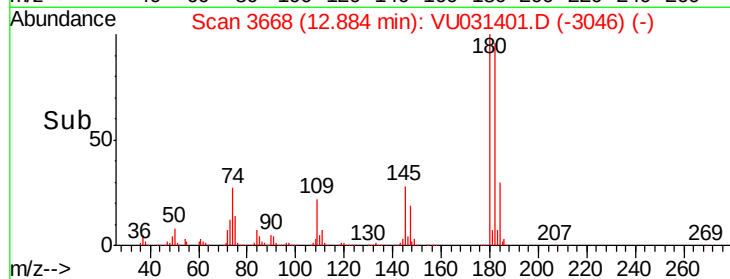
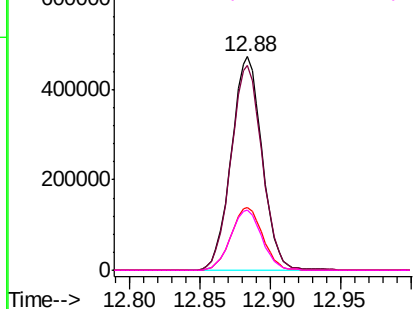
#67
 1,3,5-Trichlorobenzene
 Concen: 91.499 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU031401.D
 Acq: 22 Apr 2019 18:37

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10051

Tgt Ion:	180	Resp:	723983
Ion	Ratio	Lower	Upper
180	100		
182	97.2	76.5	114.7
184	30.3	23.7	35.5
145	28.6	22.9	34.3

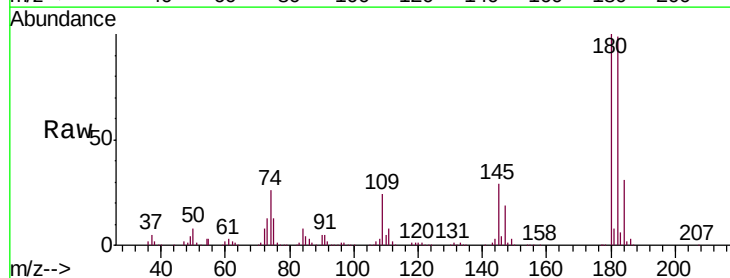


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

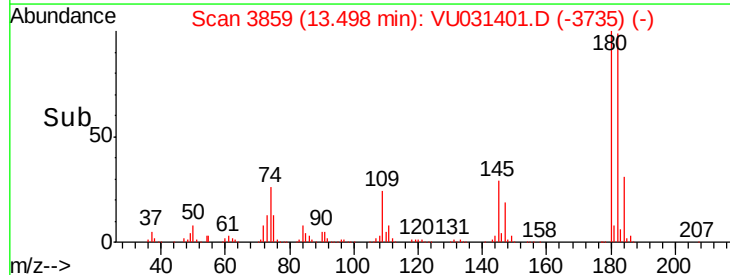
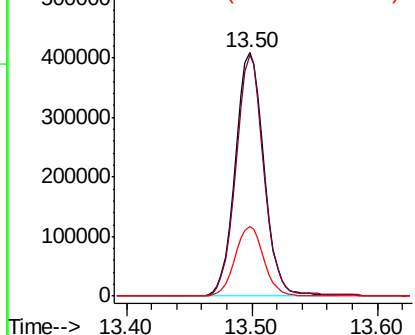


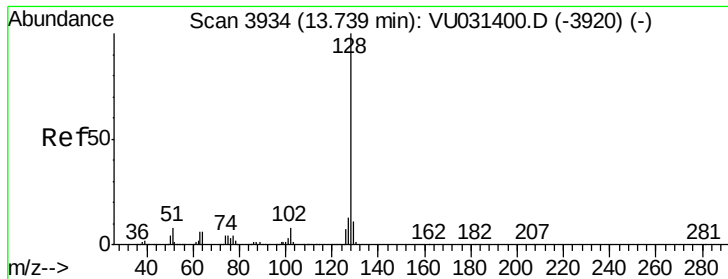
#68
 1,2,4-trichlorobenzene
 Concen: 101.732 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU031401.D
 Acq: 22 Apr 2019 18:37

Tgt Ion:	180	Resp:	648874
Ion	Ratio	Lower	Upper
180	100		
182	95.5	77.5	116.3
145	28.6	23.3	34.9



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: 109.345 ug/L

RT: 13.74 min Scan# 3933

Delta R.T. -0.00 min

Lab File: VU031401.D

Acq: 22 Apr 2019 18:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD10051

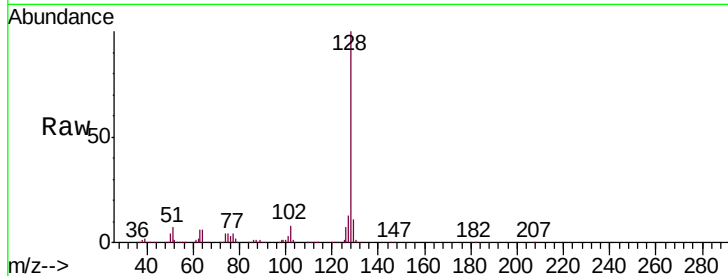
Tgt Ion:128 Resp: 2216736

Ion Ratio Lower Upper

128 100

127 13.0 10.2 15.4

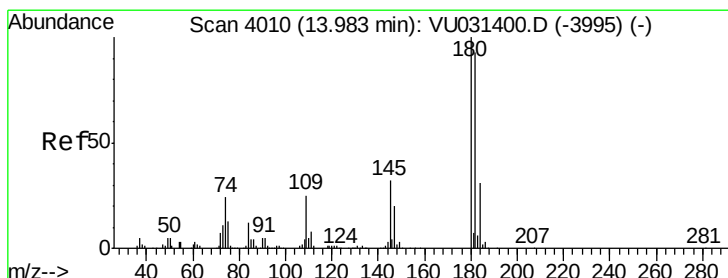
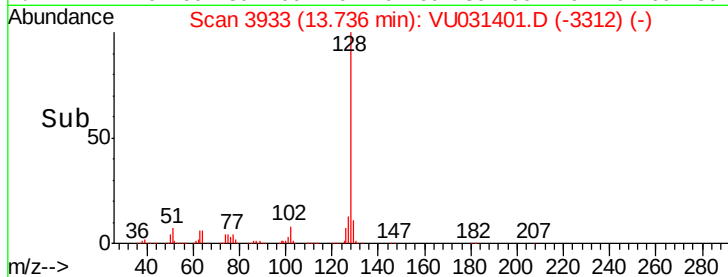
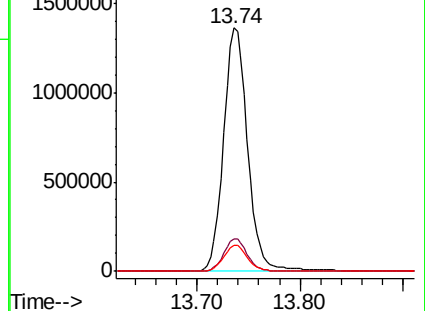
129 10.6 8.6 13.0



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: 97.100 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU031401.D

Acq: 22 Apr 2019 18:37

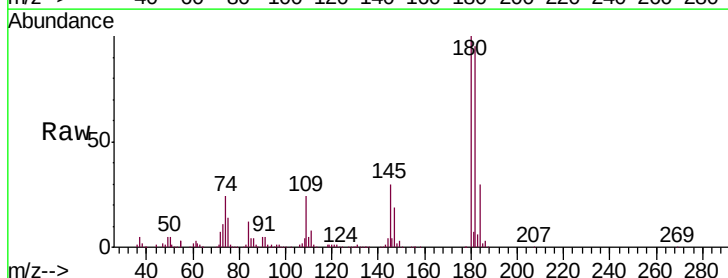
Tgt Ion:180 Resp: 674596

Ion Ratio Lower Upper

180 100

182 95.3 75.8 113.8

145 30.9 25.2 37.8



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

