

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040519\
 Data File : VU030691.D
 Acq On : 04 Apr 2019 18:01
 Operator : JC/SP
 Sample : VSTD20050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20050

Quant Time: Apr 05 01:46:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Apr 05 01:40:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	514821	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	490044	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	235638	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	862417	181.59	ug/L	0.00
7) Chloroethane-d5	1.66	69	653685	182.26	ug/L	-0.01
11) 1,1-Dichloroethene-d2	2.26	63	1586477	186.91	ug/L	0.00
21) 2-Butanone-d5	4.17	46	1572725	453.27	ug/L	0.00
24) Chloroform-d	4.64	84	1407154	202.04	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.30	65	917929	188.17	ug/L	0.00
32) Benzene-d6	5.33	84	2848464	199.57	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.32	67	980198	200.02	ug/L	0.00
41) Toluene-d8	7.56	98	2581427	206.43	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.84	79	490113	232.97	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	1024668	498.75	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	1332046	202.88	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	902932	192.16	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	818517	172.104	ug/L	100
3) Chloromethane	1.32	50	1045794	169.056	ug/L	100
5) Vinyl chloride	1.40	62	1027062	172.451	ug/L	97
6) Bromomethane	1.60	94	533549	173.780	ug/L	100
8) Chloroethane	1.68	64	579704	170.518	ug/L	99
9) Trichlorofluoromethane	1.87	101	1205052	174.883	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	662779	171.377	ug/L	98
12) 1,1-Dichloroethene	2.27	96	668345	182.153	ug/L	90
13) Acetone	2.32	43	1251134	310.938	ug/L	99
14) Carbon disulfide	2.47	76	2066299	180.700	ug/L	100
15) Methyl Acetate	2.61	43	1134364	195.455	ug/L	98
16) Methylene chloride	2.69	84	778271	170.744	ug/L	100
17) trans-1,2-Dichloroethene	2.97	96	686151	173.042	ug/L	98
18) Methyl tert-butyl Ether	2.99	73	2434144	188.666	ug/L	100
19) 1,1-Dichloroethane	3.44	63	1458111	180.777	ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	792807	185.538	ug/L	98
22) 2-Butanone	4.25	43	1788338	419.452	ug/L	95
23) Bromochloromethane	4.54	128	379629	189.023	ug/L	98
25) Chloroform	4.67	83	1401865	169.843	ug/L	98
27) 1,2-Dichloroethane	5.40	62	1123180	181.595	ug/L	99
29) Cyclohexane	4.99	56	1406693	202.079	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	1144759	187.459	ug/L	100
31) Carbon tetrachloride	5.13	117	982626	187.182	ug/L	99
33) Benzene	5.38	78	3104417	191.111	ug/L	100
34) Trichloroethene	6.18	95	768100	192.115	ug/L	99
35) Methylcyclohexane	6.41	83	1237011	206.509	ug/L	98
37) 1,2-Dichloropropane	6.43	63	877422	189.362	ug/L	99
38) Bromodichloromethane	6.75	83	1072279	192.958	ug/L	97
39) cis-1,3-Dichloropropene	7.26	75	1381487	224.103	ug/L	97
40) 4-Methyl-2-pentanone	7.46	43	3066716	434.532	ug/L	99

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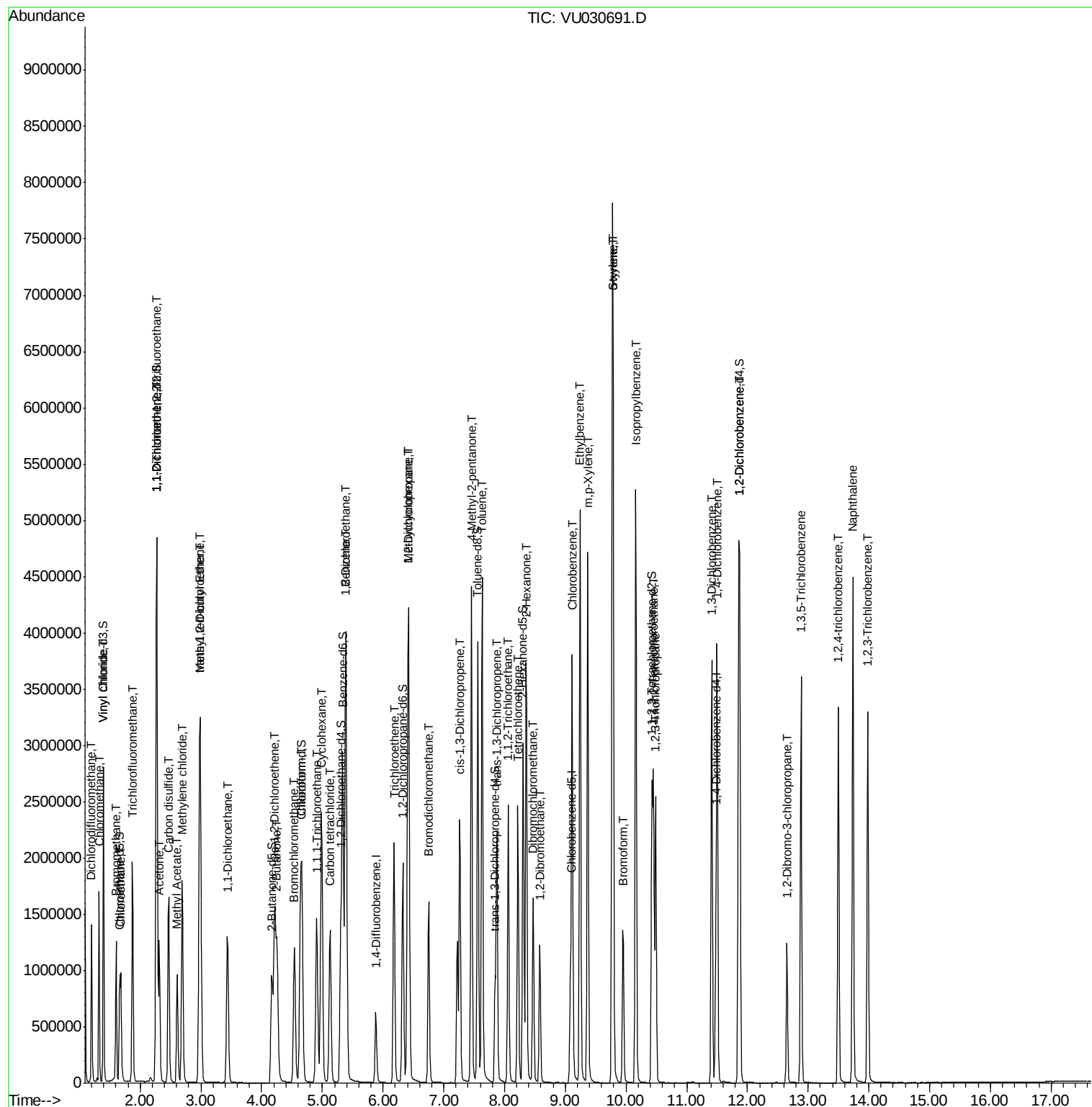
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.63	91	3262224	199.142	ug/L	99
44) trans-1,3-Dichloropropene	7.87	75	1226085	224.690	ug/L	98
45) 1,1,2-Trichloroethane	8.06	97	743075	190.260	ug/L	99
46) Tetrachloroethene	8.22	164	544067	185.134	ug/L	98
48) 2-Hexanone	8.36	43	2426293	447.275	ug/L	99
49) Dibromochloromethane	8.47	129	815842	198.916	ug/L	100
50) 1,2-Dibromoethane	8.58	107	826778	196.895	ug/L	97
51) Chlorobenzene	9.12	112	1956941	191.738	ug/L	100
52) Ethylbenzene	9.24	91	3601410	202.702	ug/L	100
53) m,p-Xylene	9.37	106	1293493	213.316	ug/L	99
54) o-xylene	9.77	106	1267434	207.984	ug/L	100
55) Styrene	9.79	104	2238667	218.070	ug/L	99
56) Isopropylbenzene	10.16	105	3348238	209.182	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	1361636	192.920	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	1061207	193.402	ug/L	99
61) Bromoform	9.95	173	615671	194.749	ug/L	98
62) 1,3-Dichlorobenzene	11.41	146	1442715	189.577	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	1460695	188.173	ug/L	98
65) 1,2-Dichlorobenzene	11.87	146	1415750	183.897	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	322452	203.385	ug/L	99
67) 1,3,5-Trichlorobenzene	12.88	180	1076758	196.272	ug/L	98
68) 1,2,4-trichlorobenzene	13.50	180	984482	220.749	ug/L	99
69) Naphthalene	13.74	128	3442046	251.354	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	997009	209.718	ug/L	98

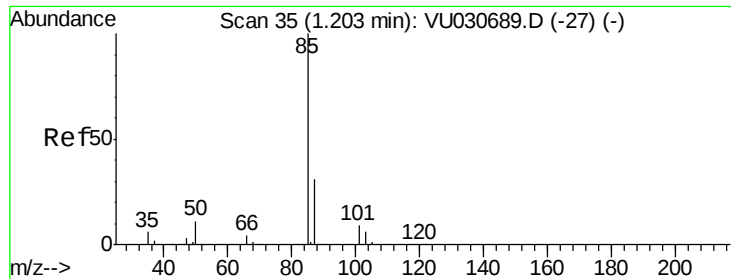
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 172.104 ug/L

RT: 1.20 min Scan# 34

Delta R.T. -0.00 min

Lab File: VU030691.D

Acq: 04 Apr 2019 18:01

Instrument :

MSVOA_U

ClientSampleId :

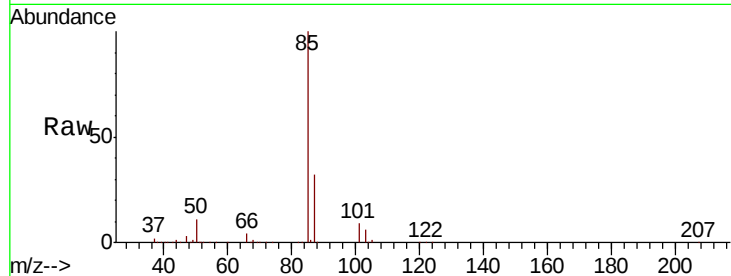
VSTD20050

Tot Ion: 85 Resp: 818517

Ion Ratio Lower Upper

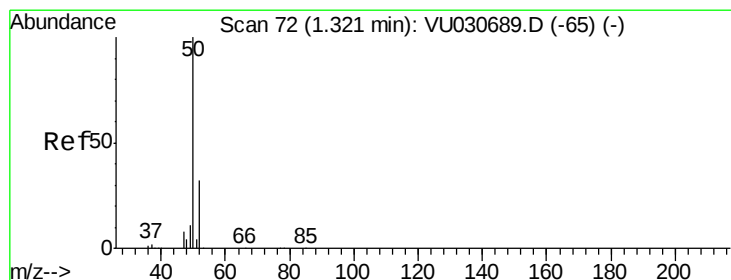
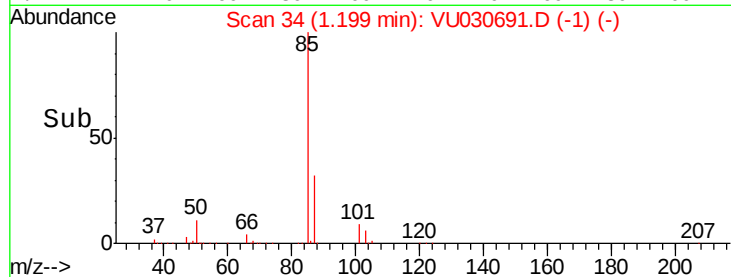
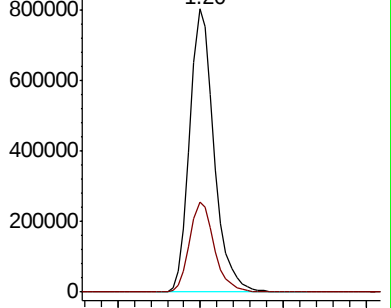
85 100

87 32.3 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VU030689.D (-27) (-)

Ion 87.00 (86.70 to 87.70): VU030689.D (-27) (-)



#3

Chloromethane

Concen: 169.056 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU030691.D

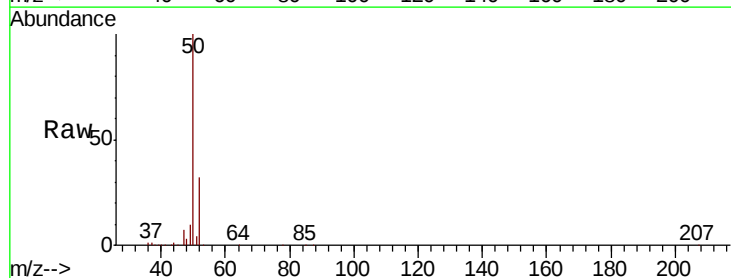
Acq: 04 Apr 2019 18:01

Tgt Ion: 50 Resp: 1045794

Ion Ratio Lower Upper

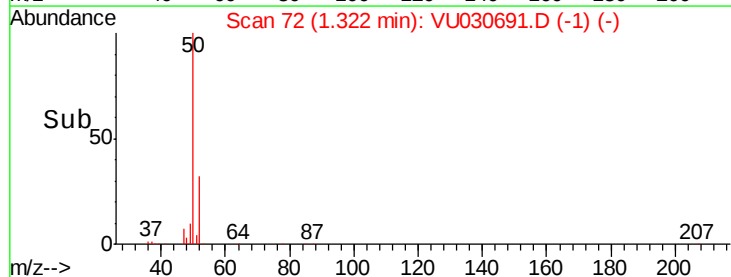
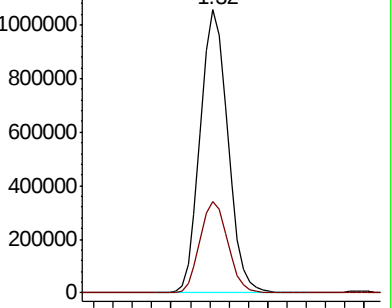
50 100

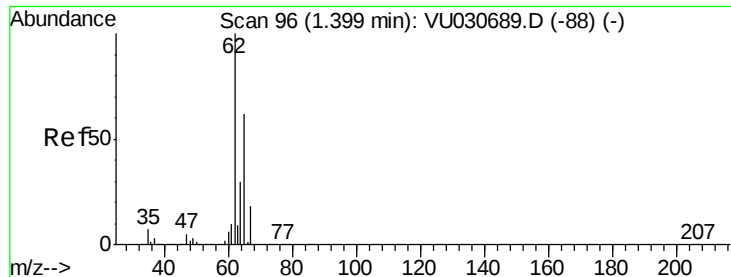
52 32.5 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VU030689.D (-65) (-)

Ion 52.00 (51.70 to 52.70): VU030689.D (-65) (-)





#5

Vinyl chloride

Concen: 172.451 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU030691.D

Acq: 04 Apr 2019 18:01

Instrument :

MSVOA_U

ClientSampleId :

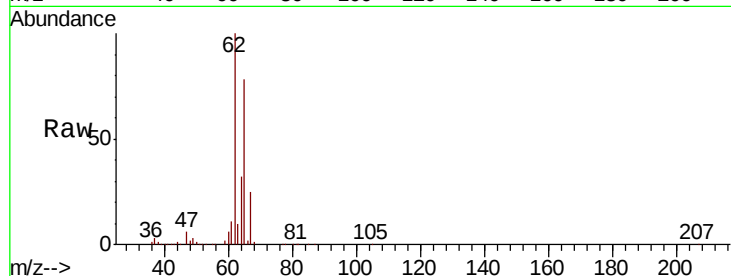
VSTD20050

Tot Ion: 62 Resp: 1027062

Ion Ratio Lower Upper

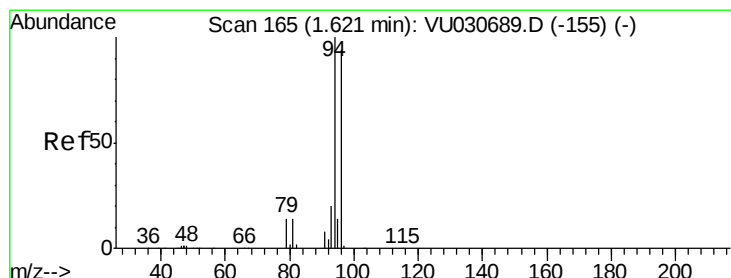
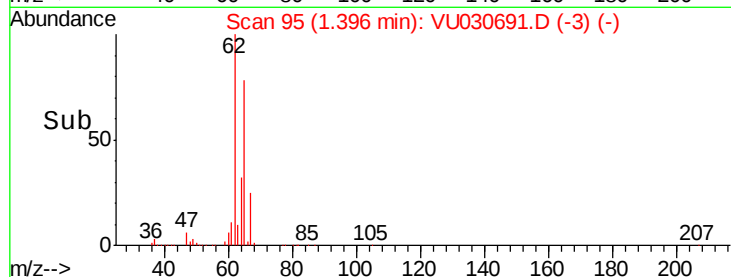
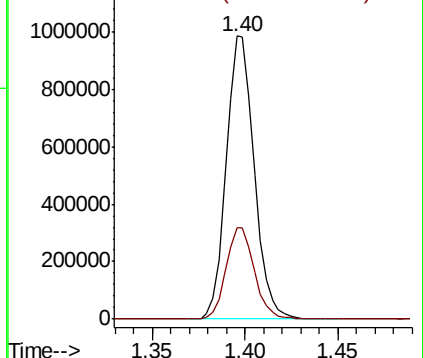
62 100

64 32.3 21.5 39.9



Abundance Ion 62.00 (61.70 to 62.70): VU030689.D (-88) (-)

Ion 64.00 (63.70 to 64.70): VU030689.D (-88) (-)



#6

Bromomethane

Concen: 173.780 ug/L

RT: 1.60 min Scan# 160

Delta R.T. -0.02 min

Lab File: VU030691.D

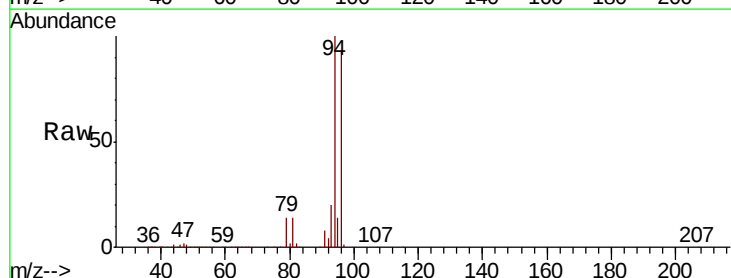
Acq: 04 Apr 2019 18:01

Tgt Ion: 94 Resp: 533549

Ion Ratio Lower Upper

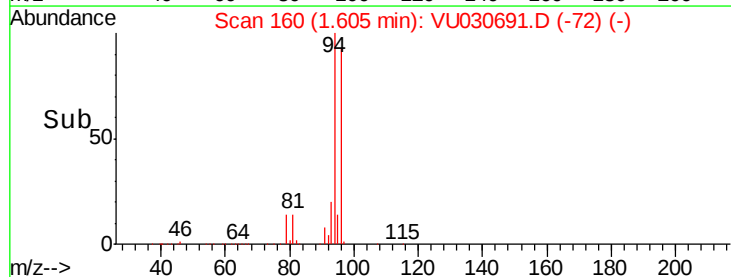
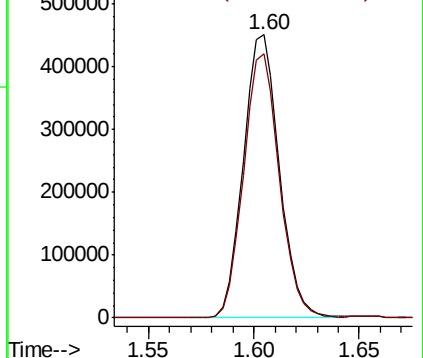
94 100

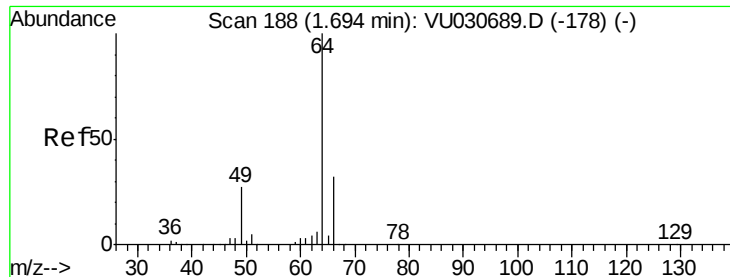
96 93.2 65.5 121.7



Abundance Ion 94.00 (93.70 to 94.70): VU030689.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU030689.D (-155) (-)





#8

Chloroethane

Concen: 170.518 ug/L

RT: 1.68 min Scan# 184

Delta R.T. -0.01 min

Lab File: VU030691.D

Acq: 04 Apr 2019 18:01

Instrument :

MSVOA_U

ClientSampleId :

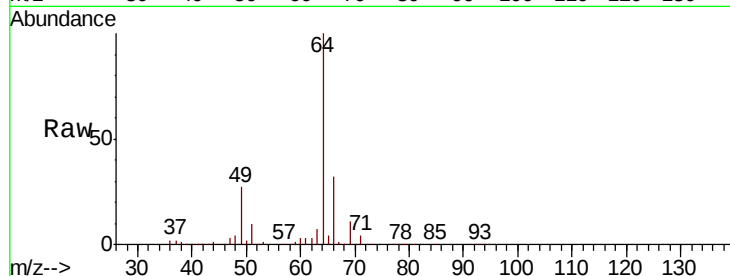
VSTD20050

Tot Ion: 64 Resp: 579704

Ion Ratio Lower Upper

64 100

66 31.7 22.4 41.6



Abundance Ion 64.00 (63.70 to 64.70): VU030691.D (-178) (-)

Ion 66.00 (65.70 to 66.70): VU030691.D (-178) (-)

1.68

400000

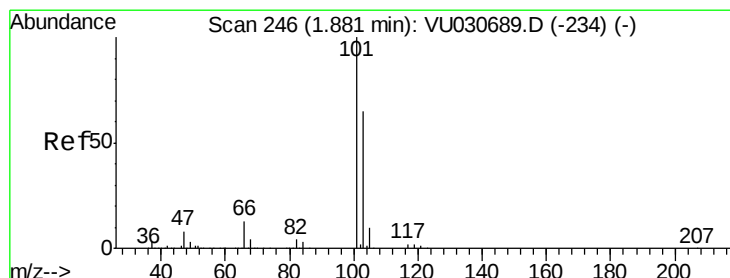
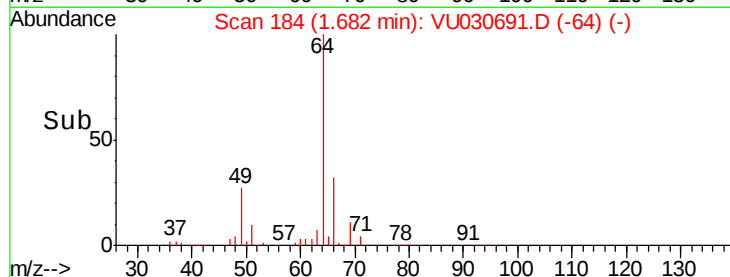
300000

200000

100000

0

Time-->



#9

Trichlorofluoromethane

Concen: 174.883 ug/L

RT: 1.87 min Scan# 244

Delta R.T. -0.01 min

Lab File: VU030691.D

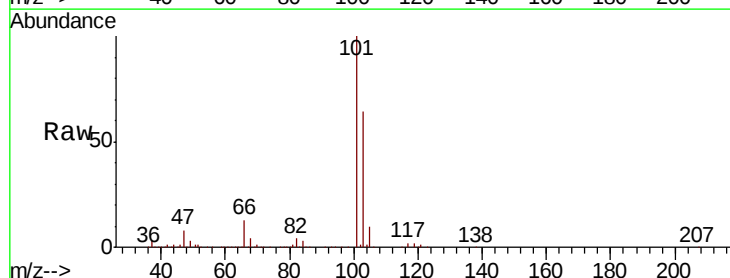
Acq: 04 Apr 2019 18:01

Tgt Ion:101 Resp: 1205052

Ion Ratio Lower Upper

101 100

103 64.1 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): VU030691.D (-234) (-)

Ion 103.00 (102.70 to 103.70): VU030691.D (-234) (-)

1.87

1000000

800000

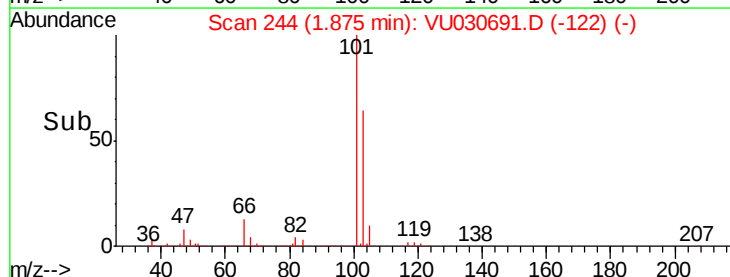
600000

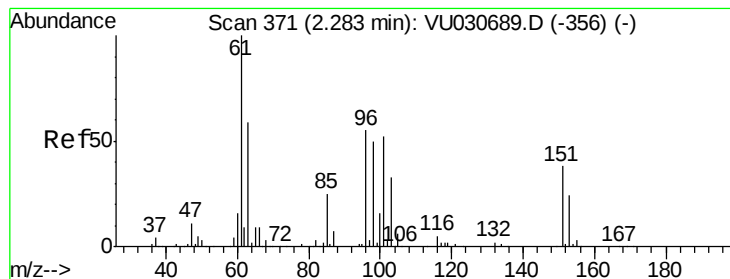
400000

200000

0

Time-->





#10

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

Concen: 171.377 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.01 min

Lab File: VU030691.D

Acq: 04 Apr 2019 18:01

Instrument :

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ClientSampleId :

VSTD20050

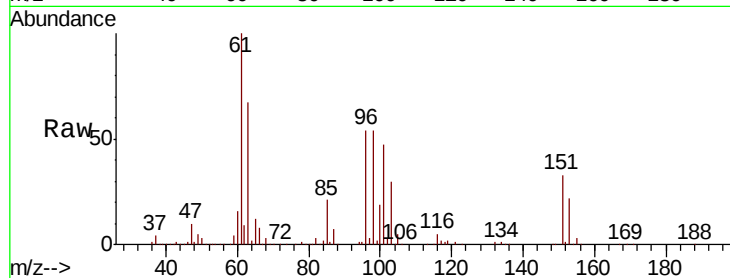
Tot Ion:101 Resp: 662779

Ion Ratio Lower Upper

101 100

85 43.9 36.8 55.2

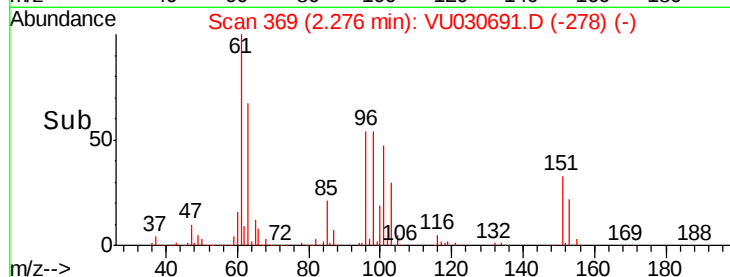
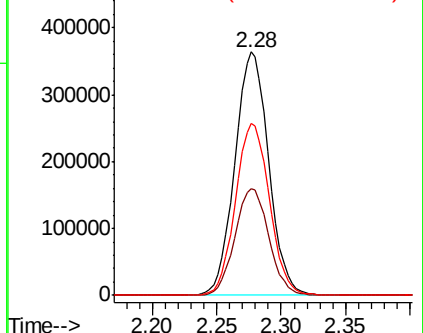
151 71.2 57.4 86.0



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: 182.153 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.01 min

Lab File: VU030691.D

Acq: 04 Apr 2019 18:01

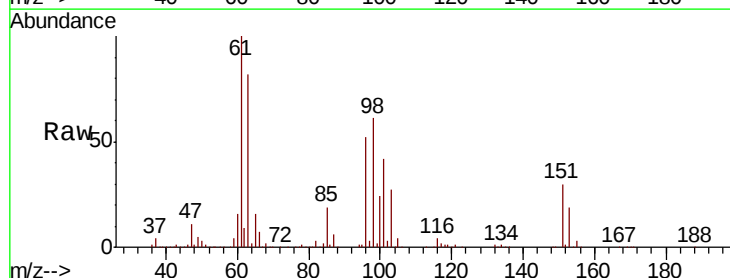
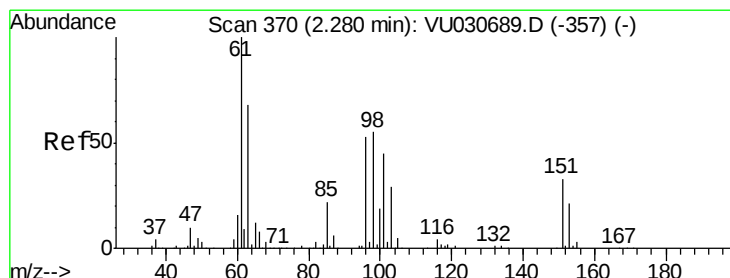
Tgt Ion: 96 Resp: 668345

Ion Ratio Lower Upper

96 100

61 191.0 132.0 245.2

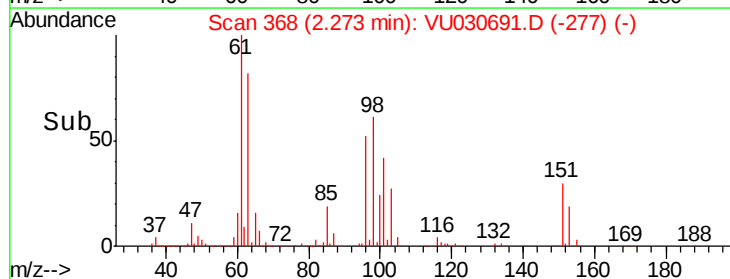
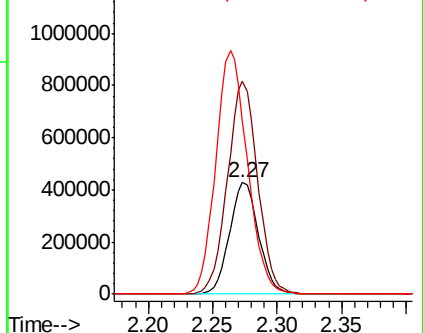
63 155.8 90.9 168.9

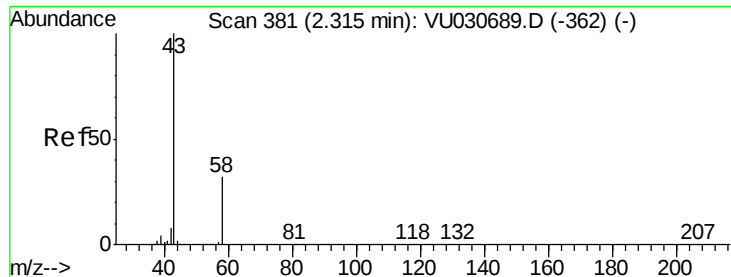


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 310.938 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

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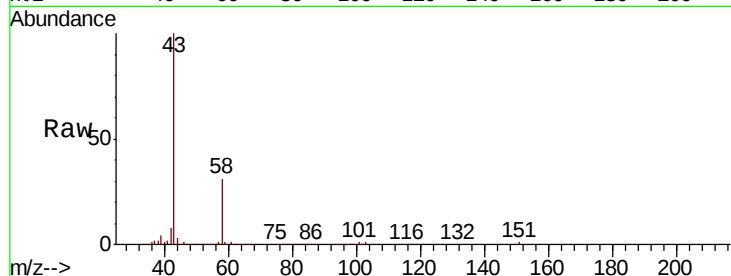
VSTD20050

Tot Ion: 43 Resp: 1251134

Ion Ratio Lower Upper

43 100

58 31.3 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VU030691.D (-362) (-)

Ion 58.00 (57.70 to 58.70): VU030691.D (-362) (-)

2.32

800000

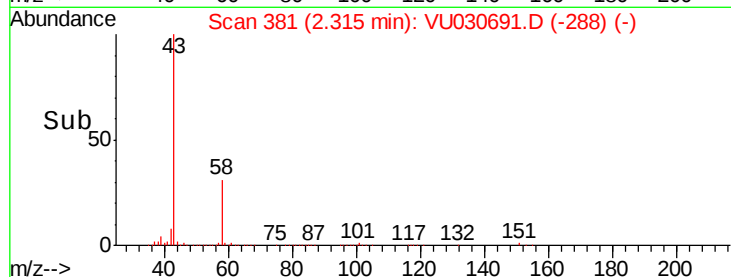
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400000

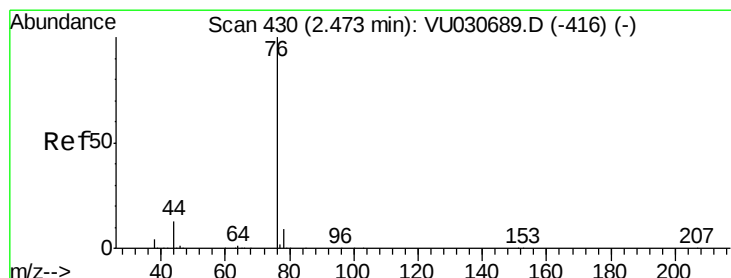
200000

0

Time-->



Time-->



#14

Carbon disulfide

Concen: 180.700 ug/L

RT: 2.47 min Scan# 429

Delta R.T. -0.00 min

Lab File: VU030691.D

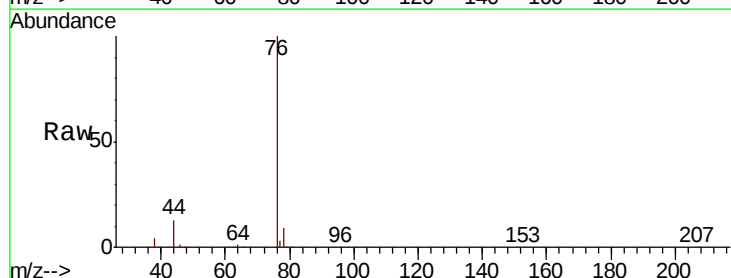
Acq: 04 Apr 2019 18:01

Tgt Ion: 76 Resp: 2066299

Ion Ratio Lower Upper

76 100

78 8.8 7.0 10.4



Abundance Ion 76.00 (75.70 to 76.70): VU030691.D (-337) (-)

Ion 78.00 (77.70 to 78.70): VU030691.D (-337) (-)

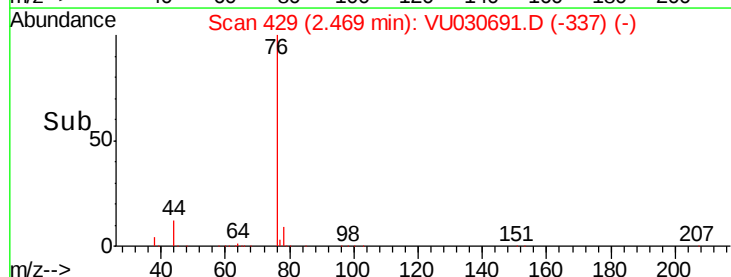
2.47

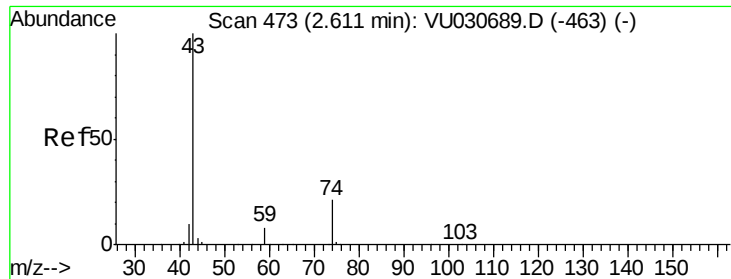
1000000

500000

0

Time-->





#15

Methyl Acetate

Concen: 195.455 ug/L

RT: 2.61 min Scan# 472

Delta R.T. -0.00 min

Lab File: VU030691.D

Acq: 04 Apr 2019 18:01

Instrument :

MSVOA_U

ClientSampled :

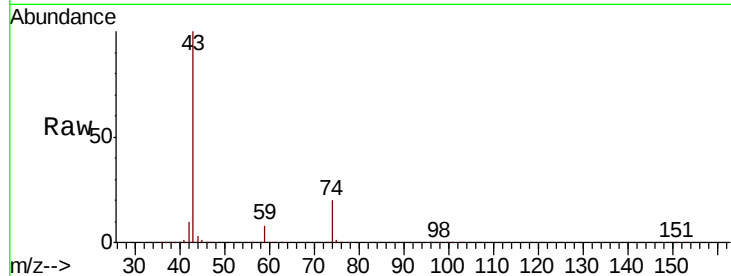
VSTD20050

Tot Ion: 43 Resp: 1134364

Ion Ratio Lower Upper

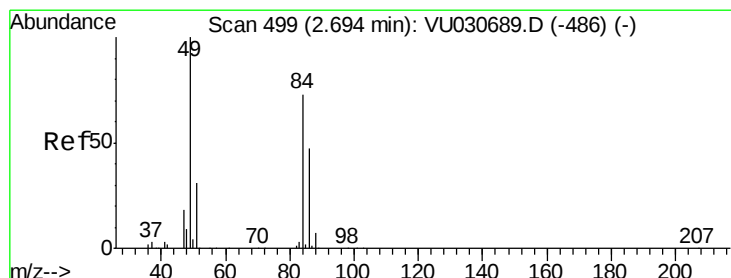
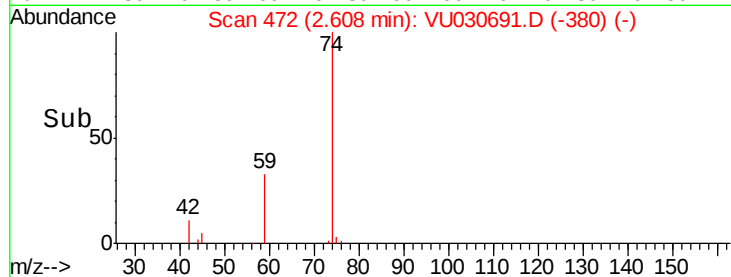
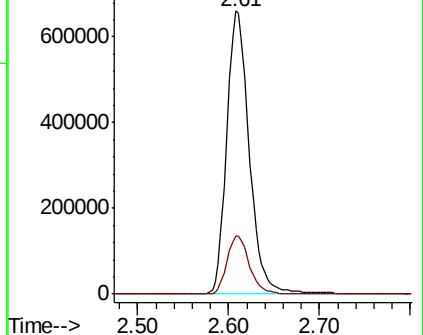
43 100

74 20.5 17.1 25.7



Abundance Ion 43.00 (42.70 to 43.70): VU030691.D (-463) (-)

Ion 74.00 (73.70 to 74.70): VU030691.D (-463) (-)



#16

Methylene chloride

Concen: 170.744 ug/L

RT: 2.69 min Scan# 499

Delta R.T. 0.00 min

Lab File: VU030691.D

Acq: 04 Apr 2019 18:01

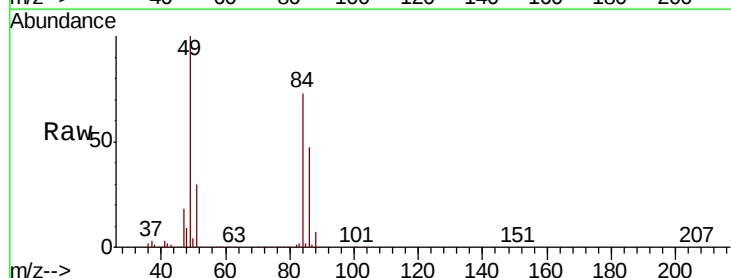
Tgt Ion: 84 Resp: 778271

Ion Ratio Lower Upper

84 100

86 64.6 45.1 83.7

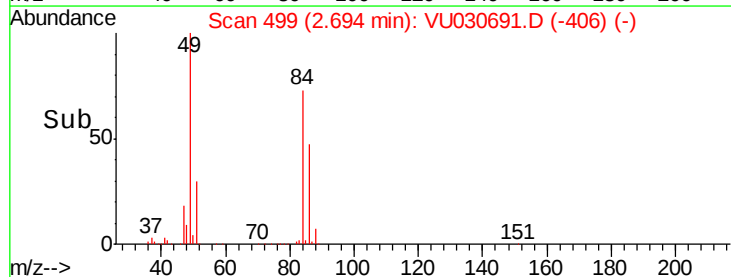
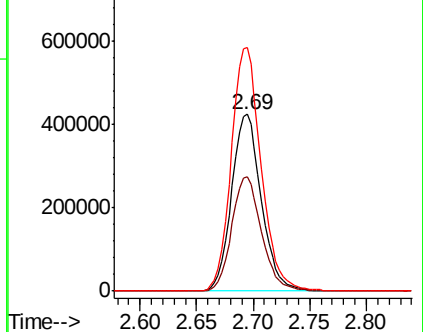
49 137.6 96.5 179.1

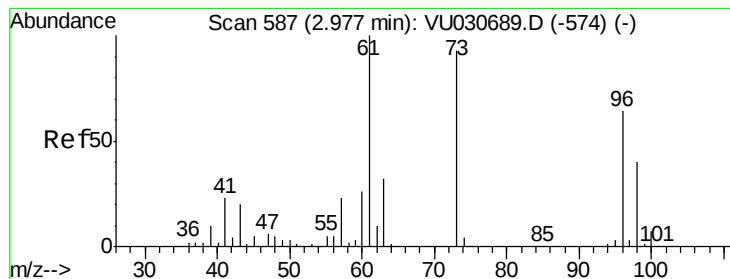


Abundance Ion 84.00 (83.70 to 84.70): VU030691.D (-486) (-)

Ion 86.00 (85.70 to 86.70): VU030691.D (-486) (-)

Ion 49.00 (48.70 to 49.70): VU030691.D (-486) (-)





#17

trans-1,2-Dichloroethene

Concen: 173.042 ug/L

RT: 2.97 min Scan# 586

Delta R.T. -0.00 min

Lab File: VU030691.D

Acq: 04 Apr 2019 18:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD20050

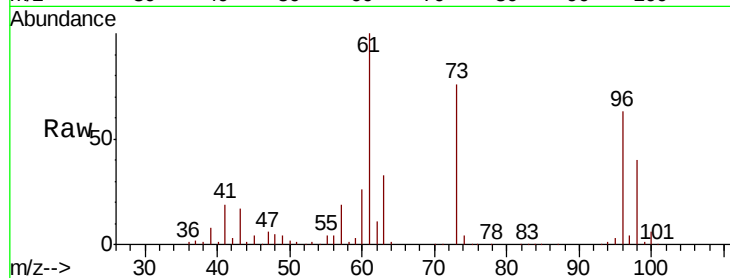
Tot Ion: 96 Resp: 686151

Ion Ratio Lower Upper

96 100

61 158.9 109.5 203.3

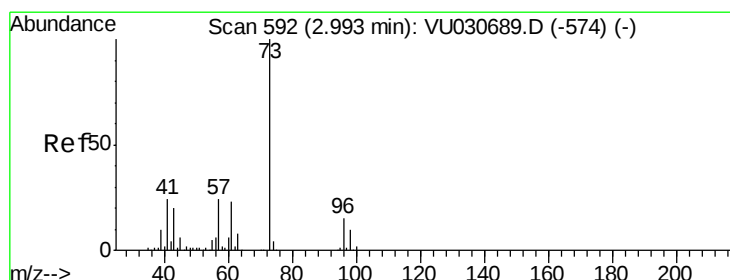
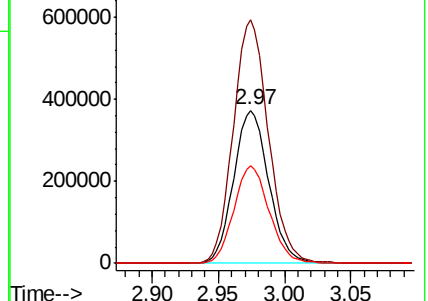
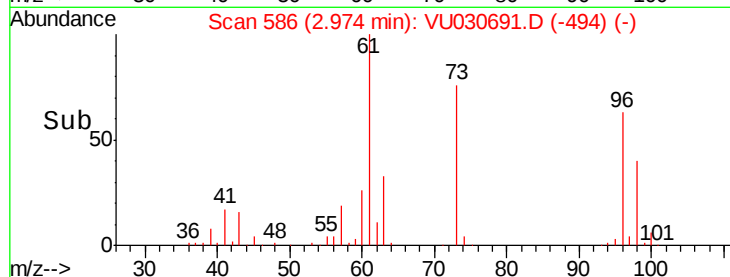
98 63.5 44.0 81.6



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: 188.666 ug/L

RT: 2.99 min Scan# 592

Delta R.T. 0.00 min

Lab File: VU030691.D

Acq: 04 Apr 2019 18:01

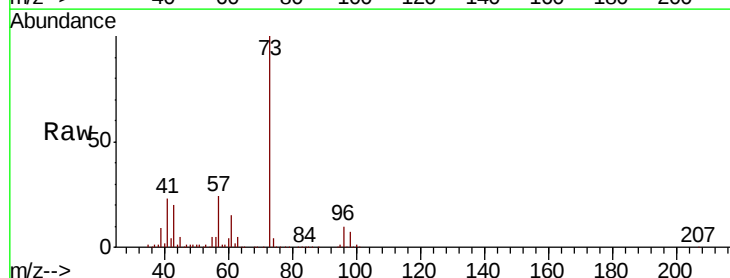
Tgt Ion: 73 Resp: 2434144

Ion Ratio Lower Upper

73 100

43 20.5 16.4 24.6

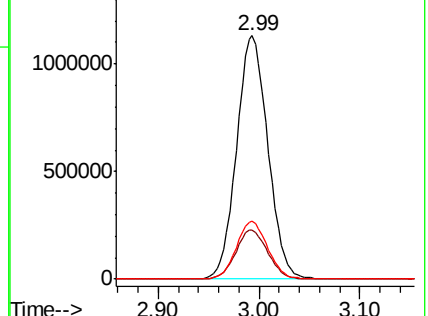
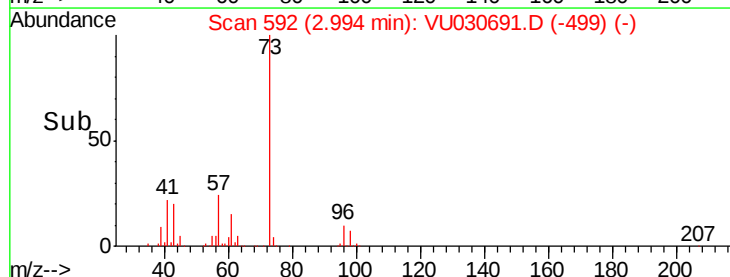
57 23.7 19.0 28.4

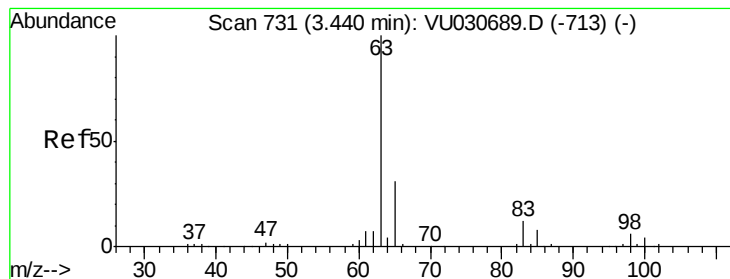


Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 180.777 ug/L

RT: 3.44 min Scan# 730

Delta R.T. -0.00 min

Lab File: VU030691.D

Acq: 04 Apr 2019 18:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD20050

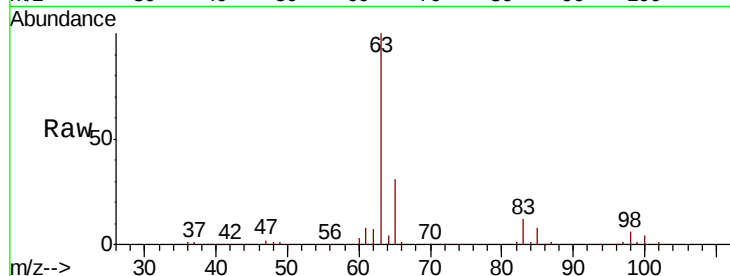
Tot Ion: 63 Resp: 1458111

Ion Ratio Lower Upper

63 100

65 30.9 21.4 39.8

83 12.5 8.5 15.7

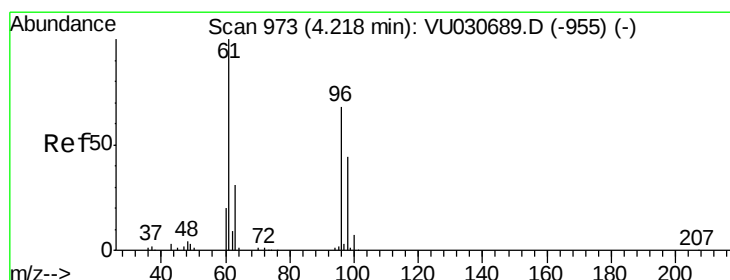
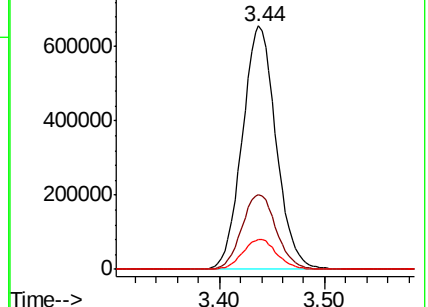
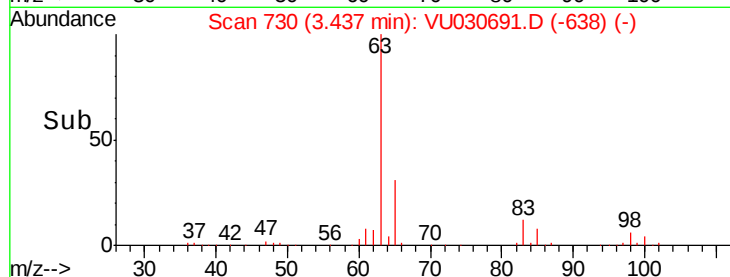


Abundance Ion 63.00 (62.70 to 63.70): VU030691.D (-713) (-)

Ion 65.00 (64.70 to 65.70): VU030691.D (-713) (-)

Ion 83.00 (82.70 to 83.70): VU030691.D (-713) (-)

Time-->



#20

cis-1,2-Dichloroethene

Concen: 185.538 ug/L

RT: 4.22 min Scan# 972

Delta R.T. -0.00 min

Lab File: VU030691.D

Acq: 04 Apr 2019 18:01

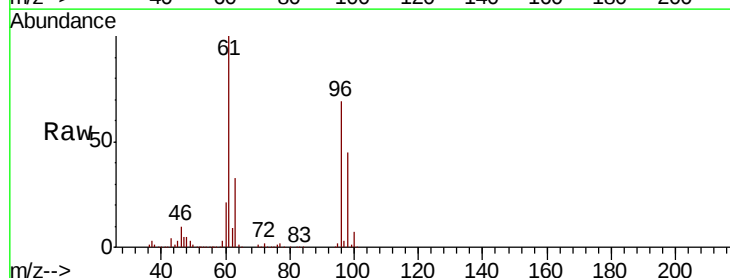
Tgt Ion: 96 Resp: 792807

Ion Ratio Lower Upper

96 100

61 144.0 102.9 191.1

68 0.0 0.0 0.0

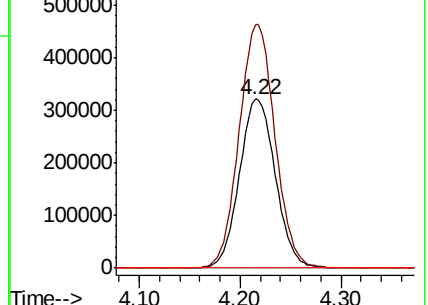
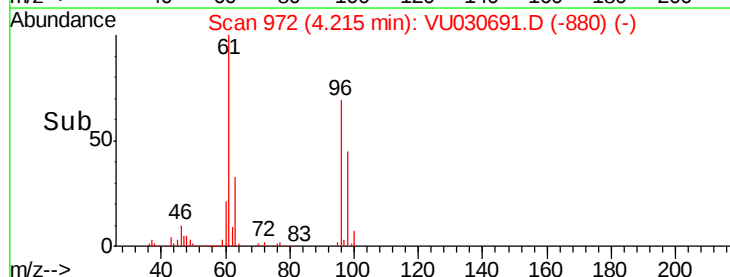


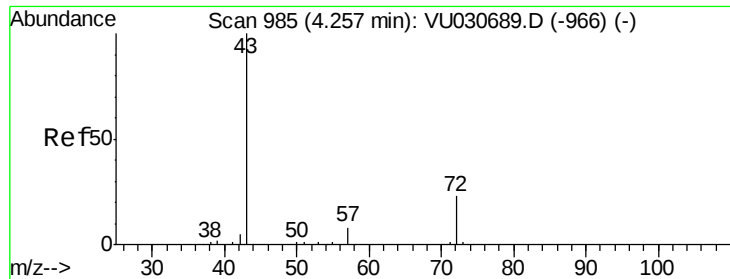
Abundance Ion 96.00 (95.70 to 96.70): VU030691.D (-880) (-)

Ion 61.00 (60.70 to 61.70): VU030691.D (-880) (-)

Ion 68.00 (67.70 to 68.70): VU030691.D (-880) (-)

Time-->





#22

2-Butanone

Concen: 419.452 ug/L

RT: 4.25 min Scan# 984

Delta R.T. -0.00 min

Lab File: VU030691.D

Acq: 04 Apr 2019 18:01

Instrument :

MSVOA_U

ClientSampleId :

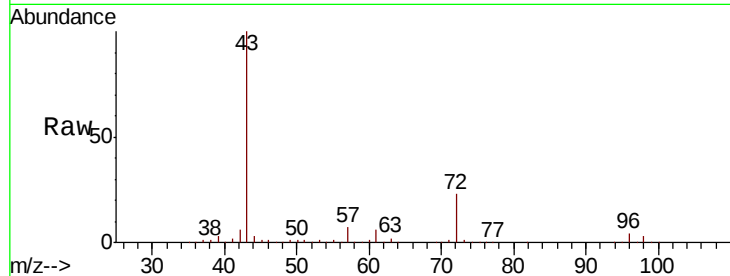
VSTD20050

Tot Ion: 43 Resp: 1788338

Ion Ratio Lower Upper

43 100

72 23.9 10.8 32.4



Abundance Ion 43.00 (42.70 to 43.70): VU030691.D (-892) (-)

Ion 72.00 (71.70 to 72.70): VU030691.D (-892) (-)

4.25

800000

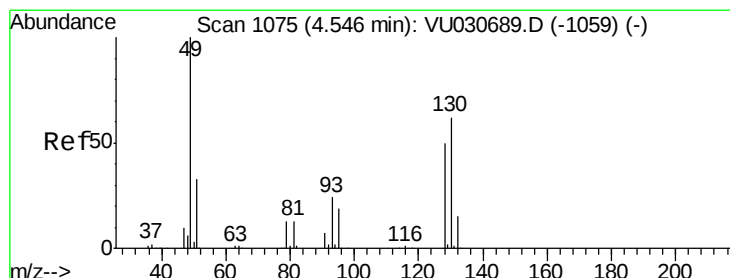
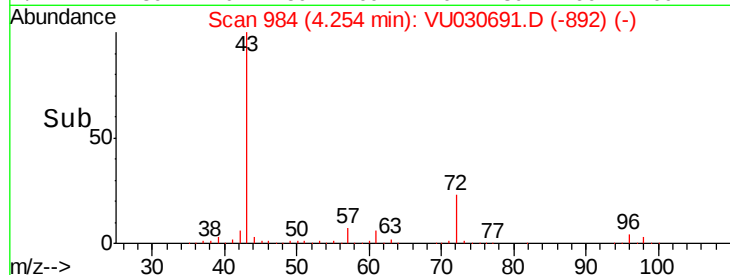
600000

400000

200000

0

Time-->



#23

Bromochloromethane

Concen: 189.023 ug/L

RT: 4.54 min Scan# 1073

Delta R.T. -0.01 min

Lab File: VU030691.D

Acq: 04 Apr 2019 18:01

Tgt Ion:128 Resp: 379629

Ion Ratio Lower Upper

128 100

49 199.8 139.9 259.7

130 129.7 86.6 160.8

51 63.7 52.2 78.4

Abundance Ion 128.00 (127.70 to 128.70): VU030691.D (-982) (-)

Ion 49.00 (48.70 to 49.70): VU030691.D (-982) (-)

Ion 130.00 (129.70 to 130.70): VU030691.D (-982) (-)

Ion 51.00 (50.70 to 51.70): VU030691.D (-982) (-)

500000

400000

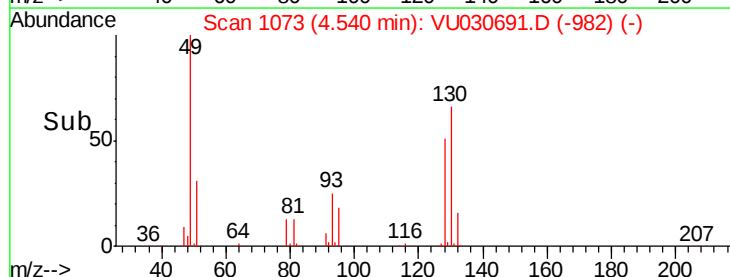
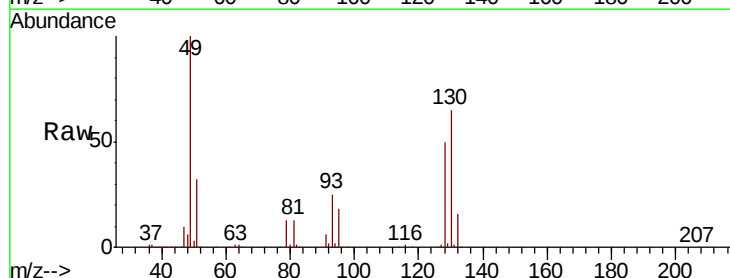
300000

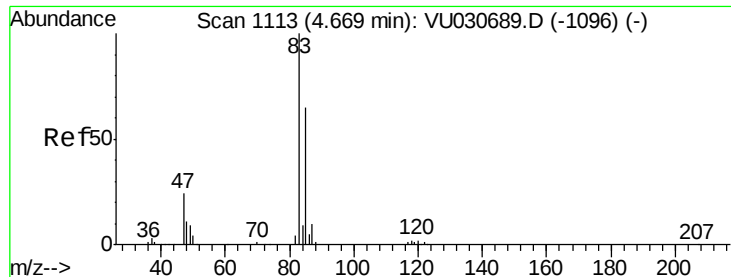
200000

100000

0

Time-->





#25

Chloroform

Concen: 169.843 ug/L

RT: 4.67 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VU030691.D

Acq: 04 Apr 2019 18:01

Instrument :

MSVOA_U

ClientSampleId :

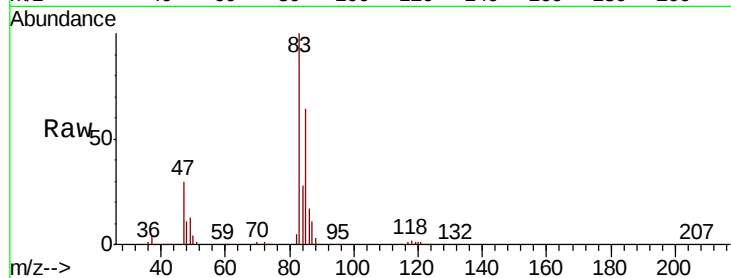
VSTD20050

Tot Ion: 83 Resp: 1401865

Ion Ratio Lower Upper

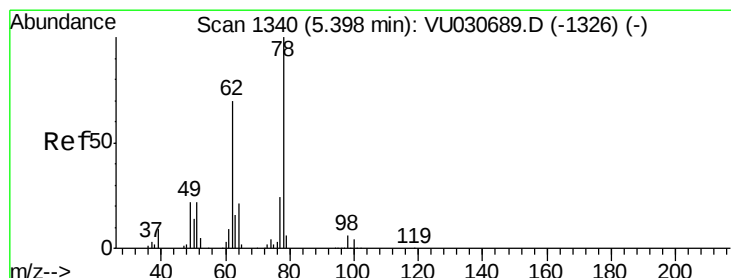
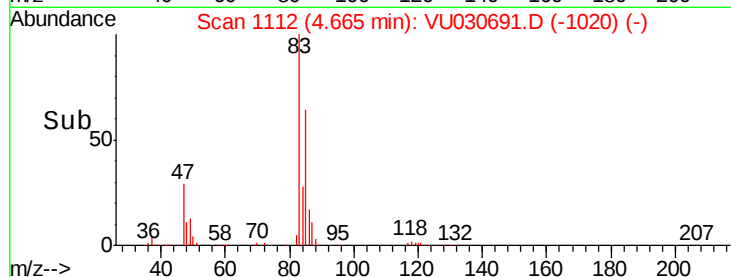
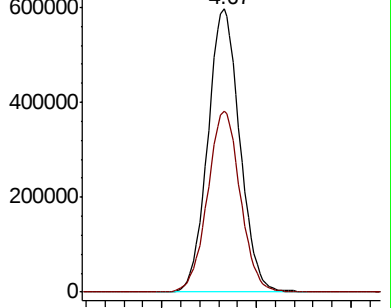
83 100

85 64.1 45.8 85.0



Abundance Ion 83.00 (82.70 to 83.70): VU030691.D (-1096) (-)

Ion 85.00 (84.70 to 85.70): VU030691.D (-1096) (-)



#27

1,2-Dichloroethane

Concen: 181.595 ug/L

RT: 5.40 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VU030691.D

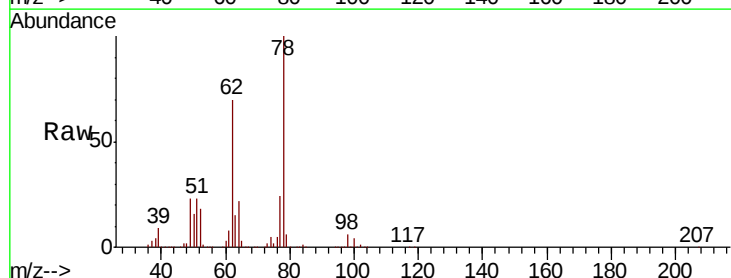
Acq: 04 Apr 2019 18:01

Tgt Ion: 62 Resp: 1123180

Ion Ratio Lower Upper

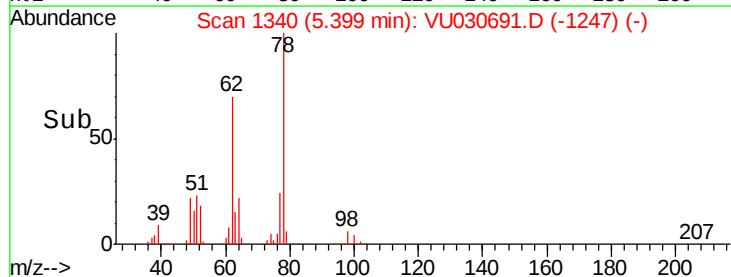
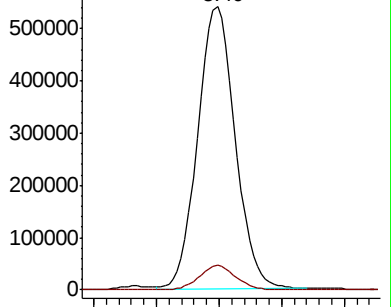
62 100

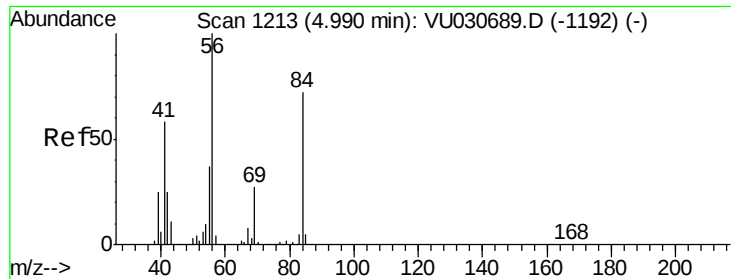
98 8.8 7.2 10.8



Abundance Ion 62.00 (61.70 to 62.70): VU030691.D (-1326) (-)

Ion 98.00 (97.70 to 98.70): VU030691.D (-1326) (-)

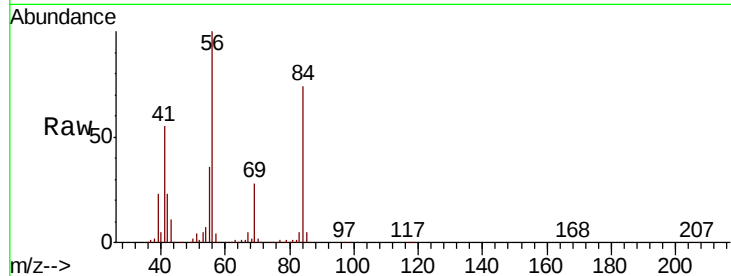




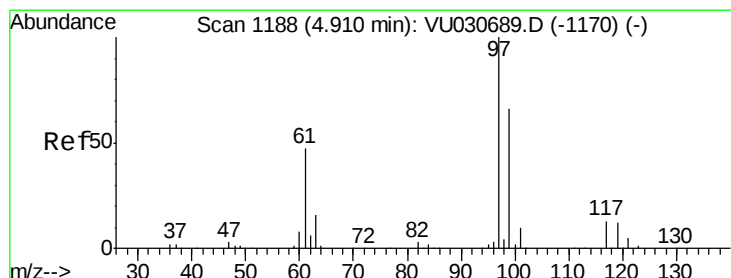
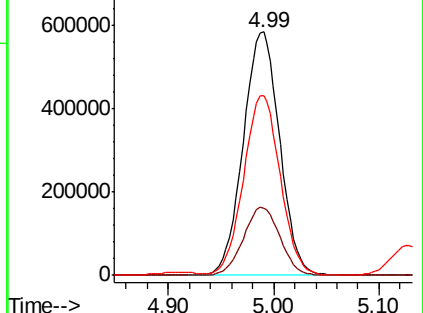
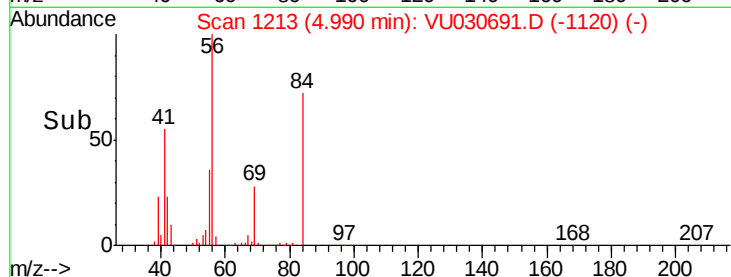
#29
Cyclohexane
Concen: 202.079 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. 0.00 min
Lab File: VU030691.D
Acq: 04 Apr 2019 18:01

Instrument :
MSVOA_U
ClientSampleId :
VSTD20050

Tot Ion: 56 Resp: 1406693
Ion Ratio Lower Upper
56 100
69 28.0 22.0 33.0
84 74.0 58.2 87.2

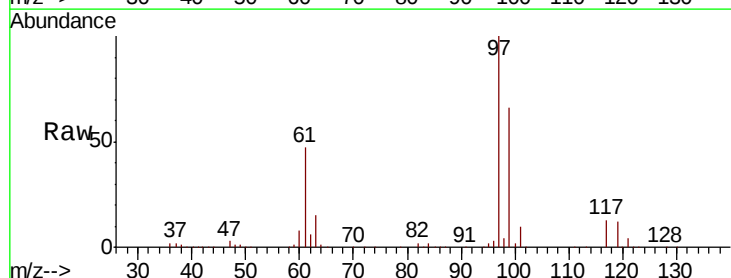


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

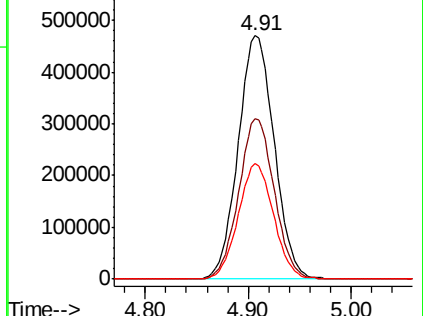
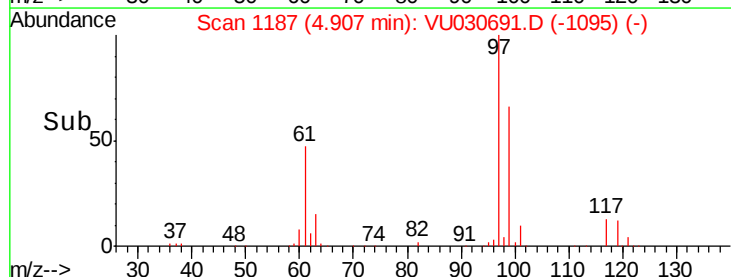


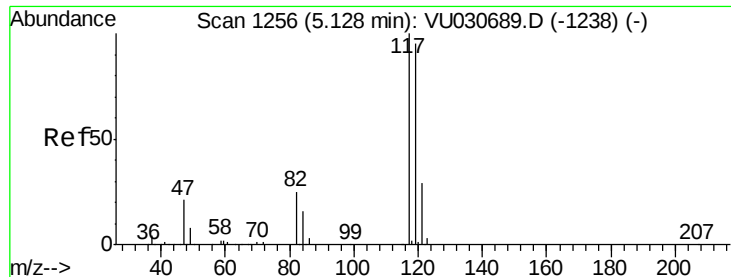
#30
1,1,1-Trichloroethane
Concen: 187.459 ug/L
RT: 4.91 min Scan# 1187
Delta R.T. -0.00 min
Lab File: VU030691.D
Acq: 04 Apr 2019 18:01

Tgt Ion: 97 Resp: 1144759
Ion Ratio Lower Upper
97 100
99 64.8 51.4 77.2
61 46.5 37.1 55.7



Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 61.05 (60.75 to 61.75): VU0

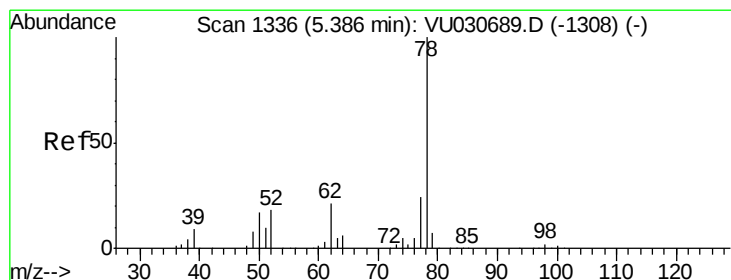
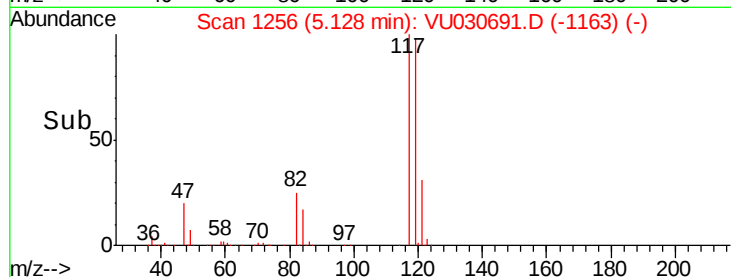
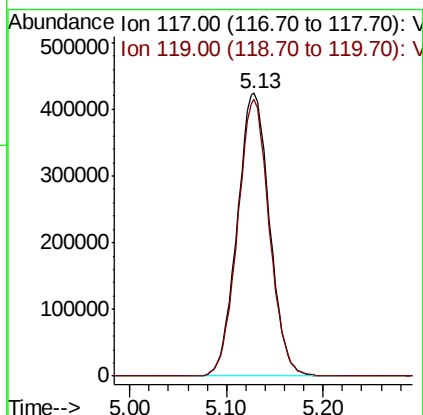
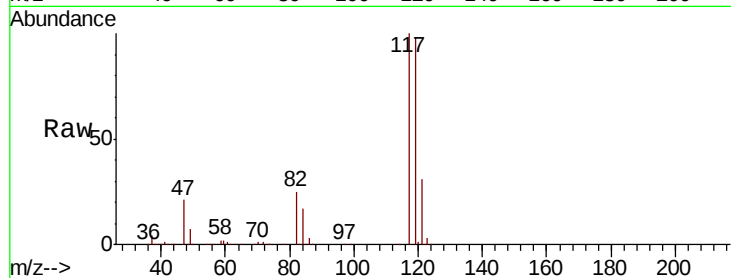




#31
Carbon tetrachloride
Concen: 187.182 ug/L
RT: 5.13 min Scan# 1256
Delta R.T. 0.00 min
Lab File: VU030691.D
Acq: 04 Apr 2019 18:01

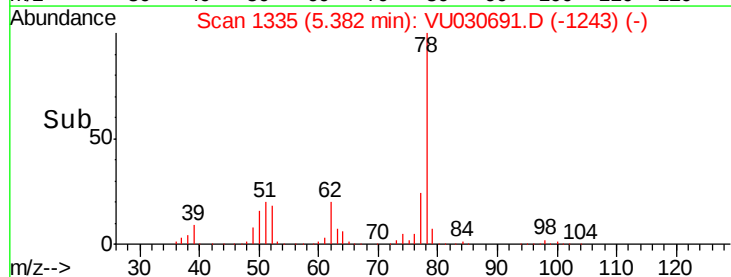
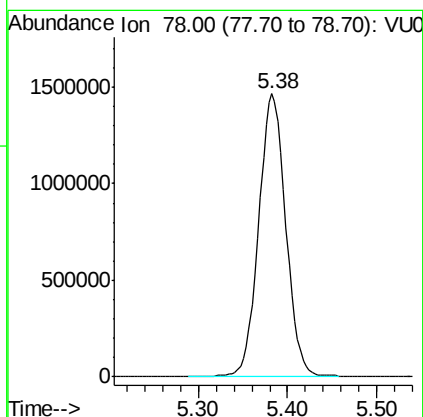
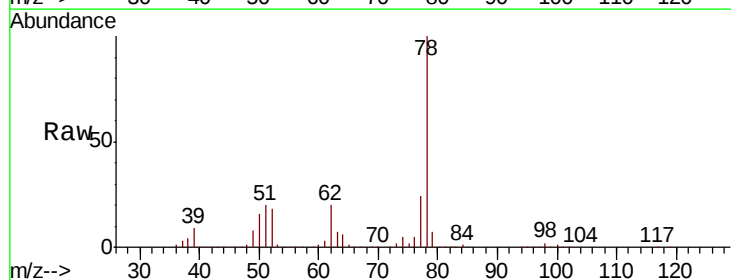
Instrument :
MSVOA_U
ClientSampleId :
VSTD20050

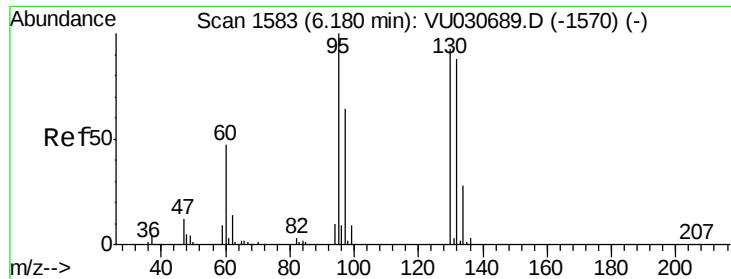
Tot Ion:117 Resp: 982626
Ion Ratio Lower Upper
117 100
119 96.1 76.2 114.2



#33
Benzene
Concen: 191.111 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. -0.00 min
Lab File: VU030691.D
Acq: 04 Apr 2019 18:01

Tgt Ion: 78 Resp: 3104417

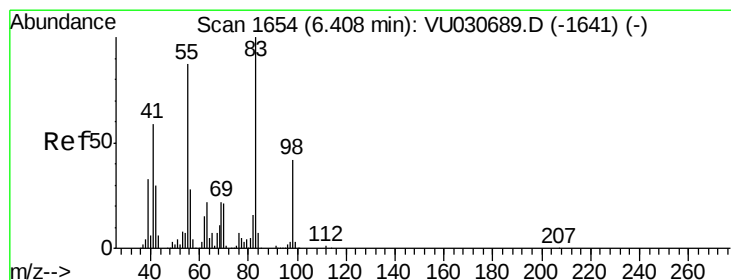
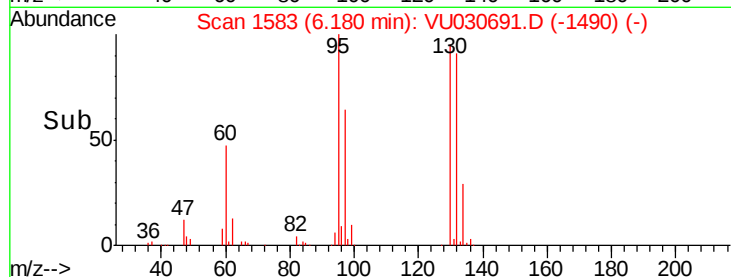
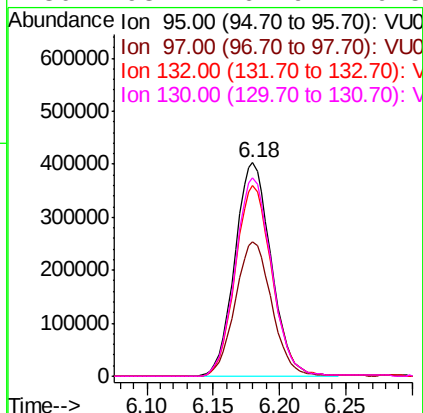
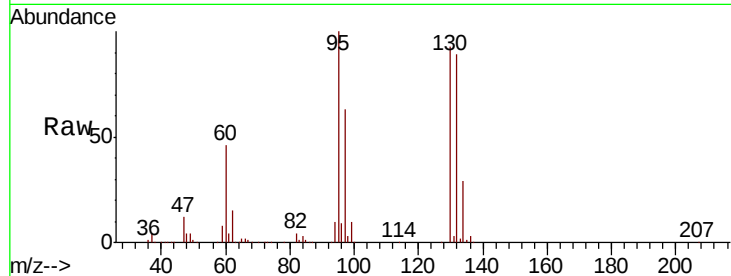




#34
 Trichloroethene
 Concen: 192.115 ug/L
 RT: 6.18 min Scan# 1583
 Delta R.T. 0.00 min
 Lab File: VU030691.D
 Acq: 04 Apr 2019 18:01

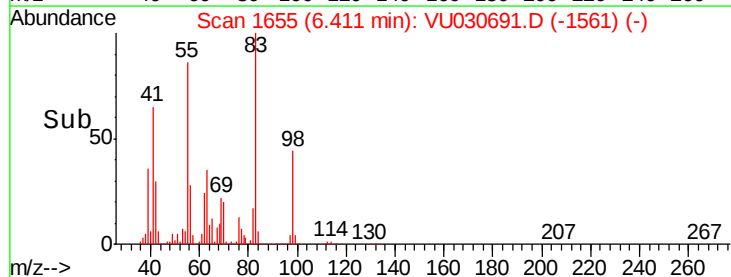
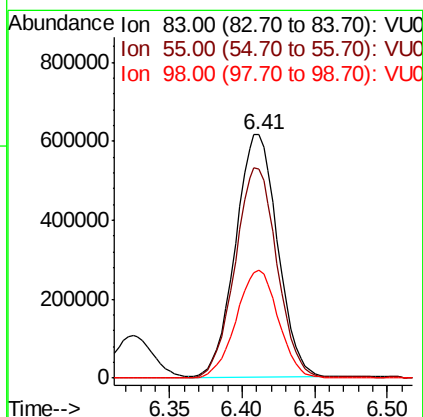
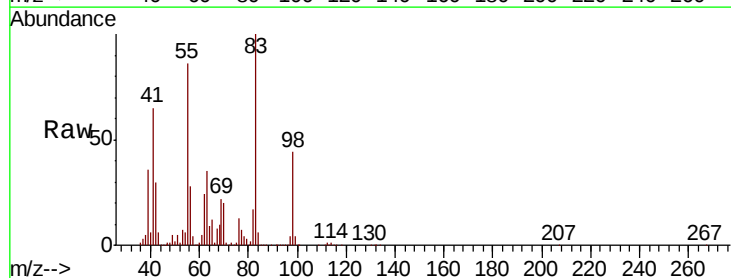
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20050

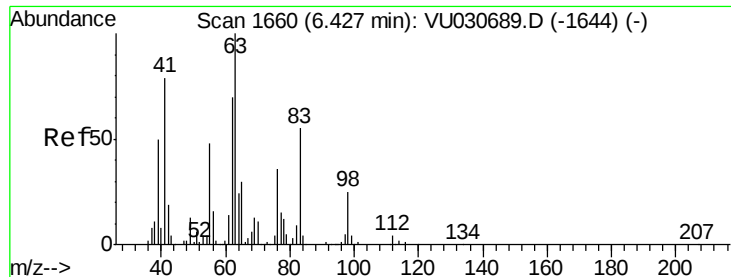
Tot Ion	95	Resp	768100
Ion	Ratio	Lower	Upper
95	100		
97	63.1	44.5	82.7
132	89.2	61.5	114.1
130	93.1	64.9	120.5



#35
 Methylcyclohexane
 Concen: 206.509 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU030691.D
 Acq: 04 Apr 2019 18:01

Tgt Ion	83	Resp	1237011
Ion	Ratio	Lower	Upper
83	100		
55	86.8	71.6	107.4
98	44.5	35.4	53.0

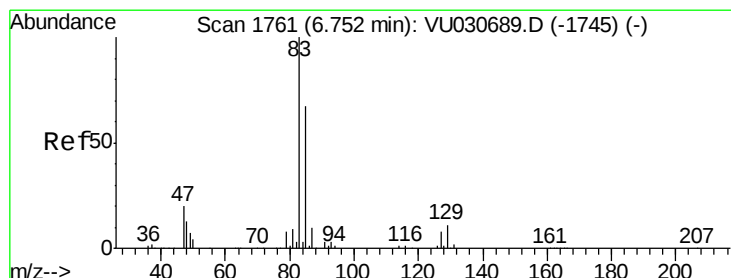
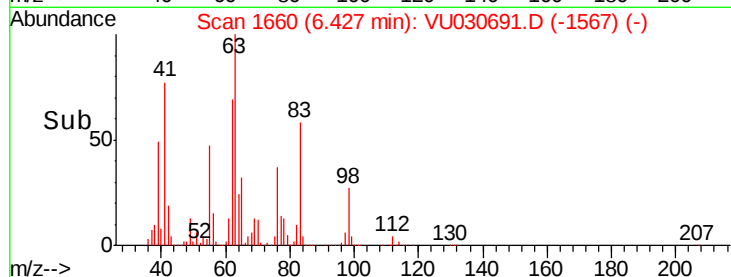
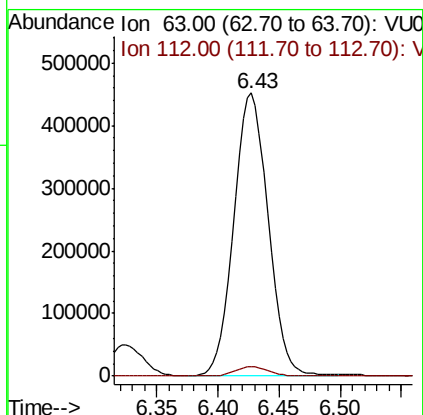
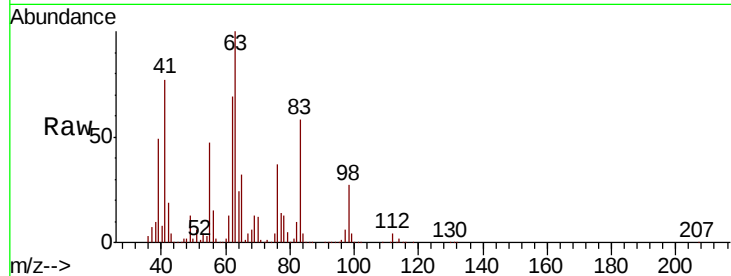




#37
 1,2-Dichloropropane
 Concen: 189.362 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU030691.D
 Acq: 04 Apr 2019 18:01

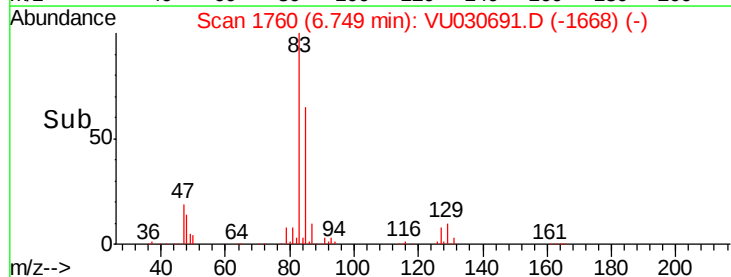
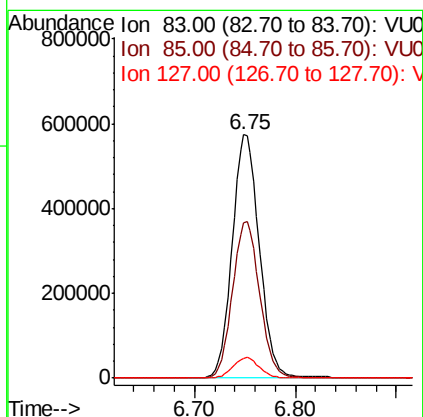
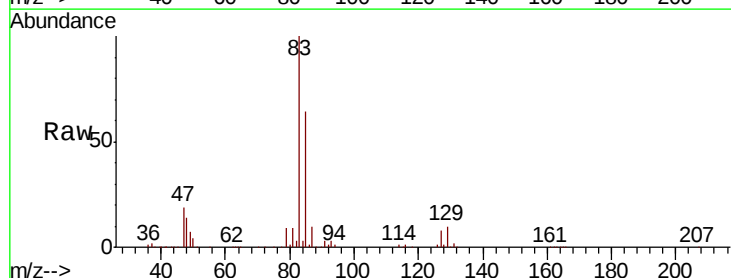
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20050

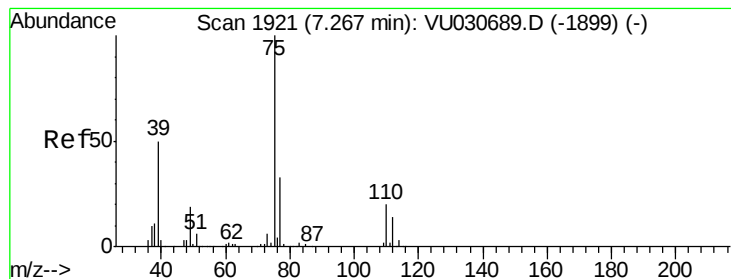
Tot Ion: 63 Resp: 877422
 Ion Ratio Lower Upper
 63 100
 112 3.4 3.0 4.4



#38
 Bromodichloromethane
 Concen: 192.958 ug/L
 RT: 6.75 min Scan# 1760
 Delta R.T. -0.00 min
 Lab File: VU030691.D
 Acq: 04 Apr 2019 18:01

Tgt Ion: 83 Resp: 1072279
 Ion Ratio Lower Upper
 83 100
 85 63.8 46.5 86.3
 127 8.3 6.6 10.0



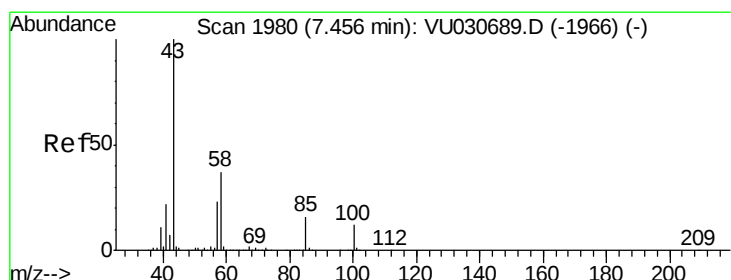
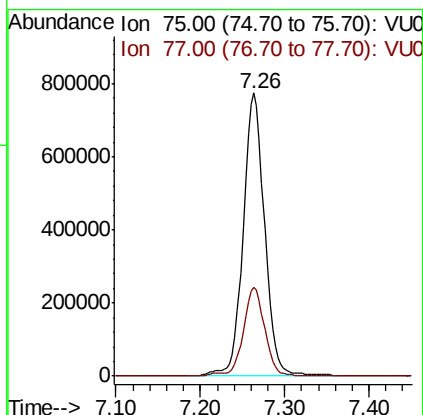
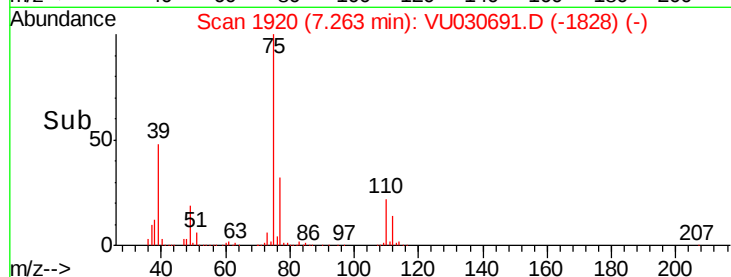
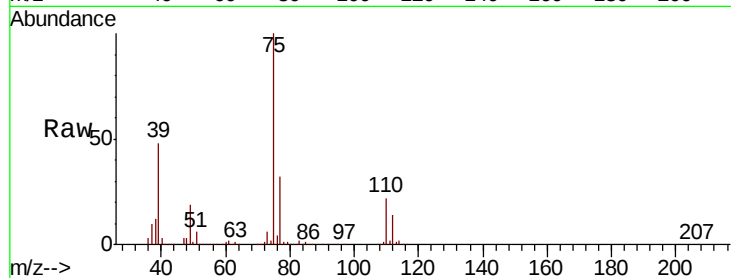


#39

cis-1,3-Dichloropropene
 Concen: 224.103 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. -0.00 min
 Lab File: VU030691.D
 Acq: 04 Apr 2019 18:01

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20050

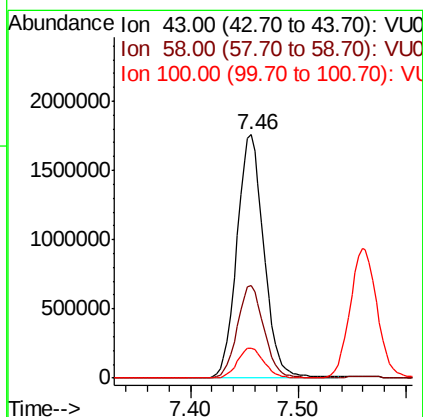
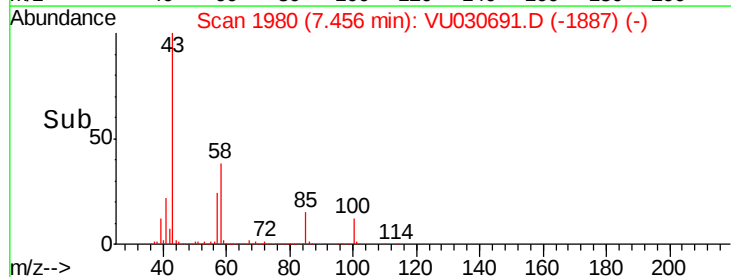
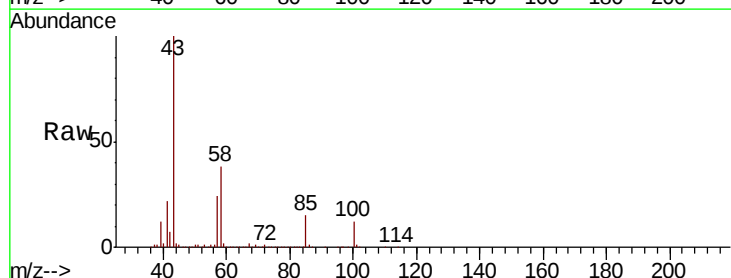
Tot Ion: 75 Resp: 1381487
 Ion Ratio Lower Upper
 75 100
 77 31.5 23.1 42.9

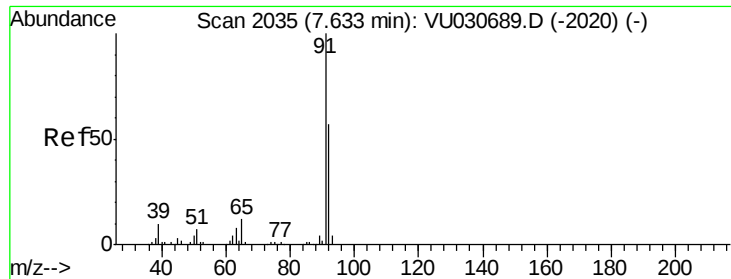


#40

4-Methyl-2-pentanone
 Concen: 434.532 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VU030691.D
 Acq: 04 Apr 2019 18:01

Tgt Ion: 43 Resp: 3066716
 Ion Ratio Lower Upper
 43 100
 58 37.8 29.7 44.5
 100 12.2 9.8 14.6





#42

Toluene

Concen: 199.142 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU030691.D

Acq: 04 Apr 2019 18:01

Instrument :

MSVOA_U

ClientSampleId :

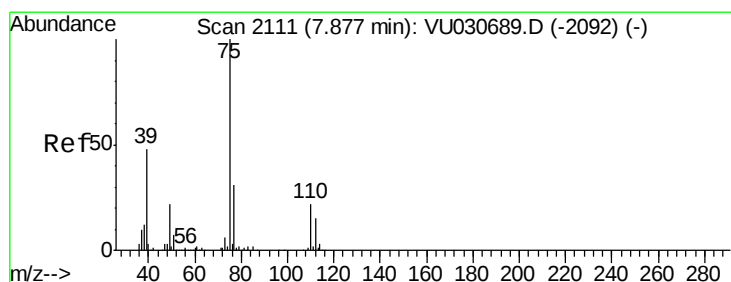
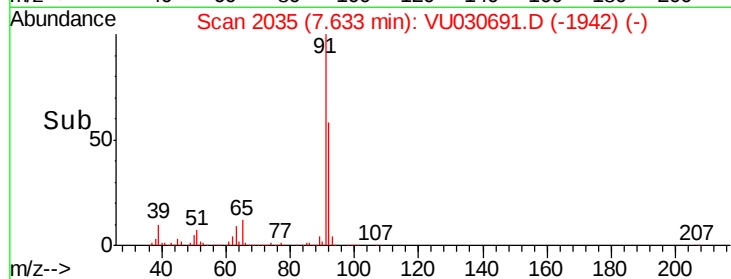
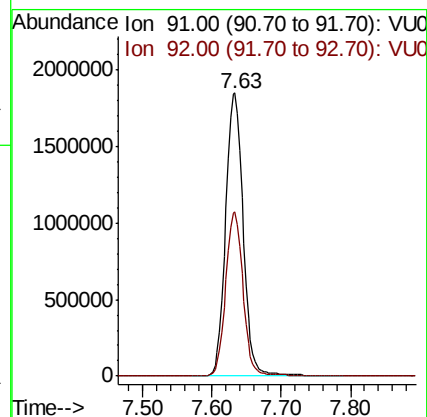
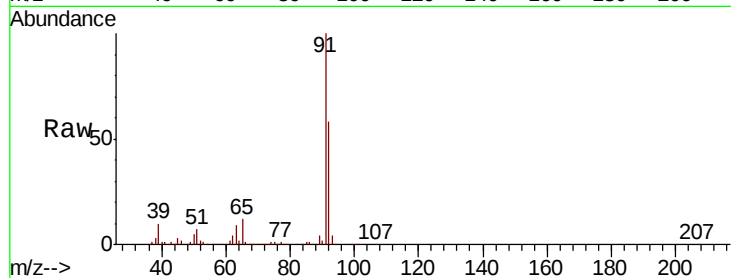
VSTD20050

Tot Ion: 91 Resp: 3262224

Ion Ratio Lower Upper

91 100

92 57.9 40.0 74.4



#44

trans-1,3-Dichloropropene

Concen: 224.690 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VU030691.D

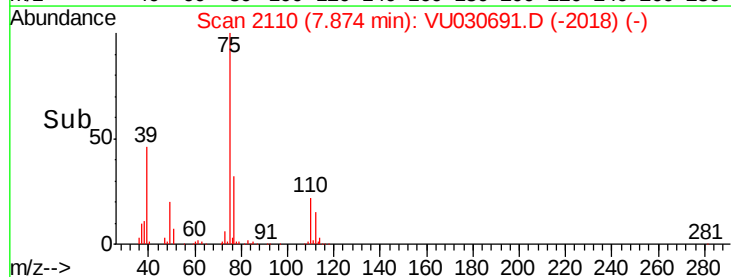
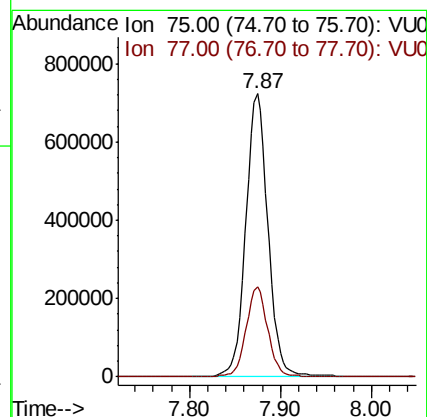
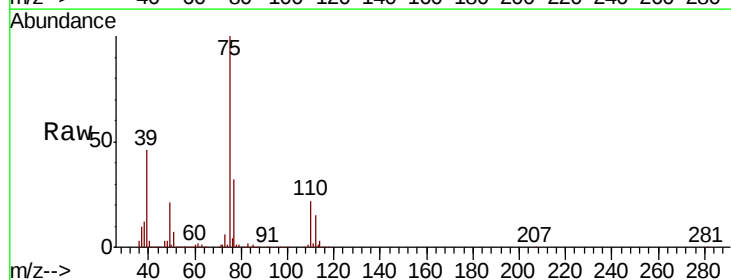
Acq: 04 Apr 2019 18:01

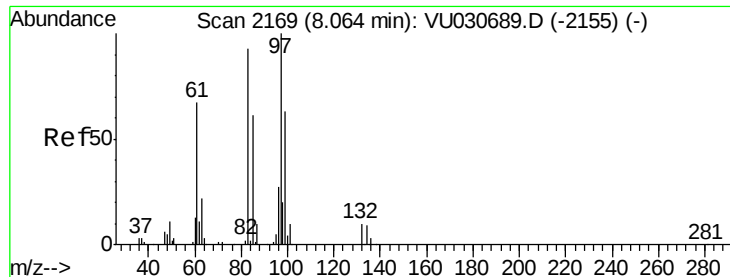
Tgt Ion: 75 Resp: 1226085

Ion Ratio Lower Upper

75 100

77 31.7 21.6 40.0

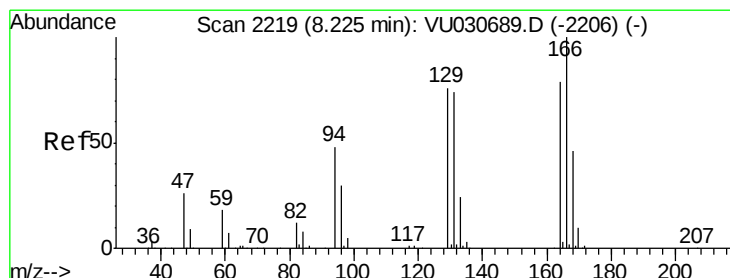
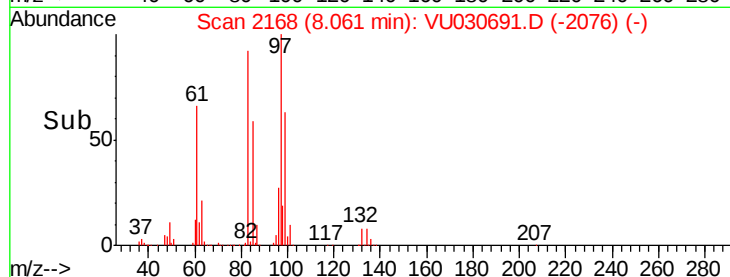
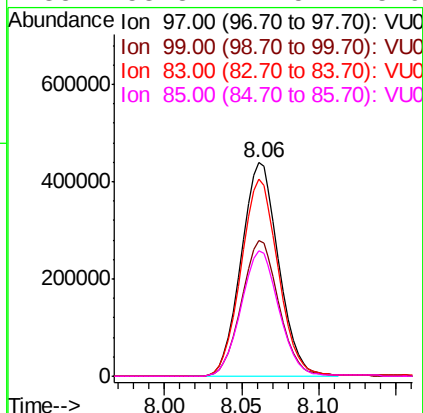
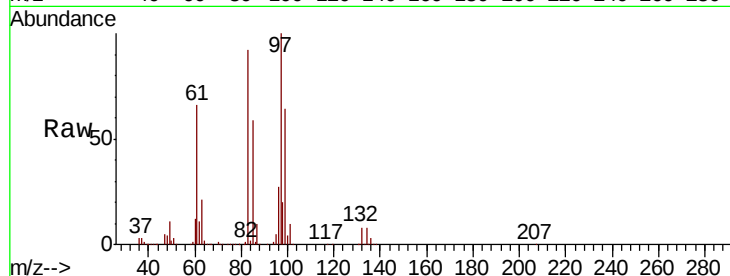




#45
 1,1,2-Trichloroethane
 Concen: 190.260 ug/L
 RT: 8.06 min Scan# 2168
 Delta R.T. -0.00 min
 Lab File: VU030691.D
 Acq: 04 Apr 2019 18:01

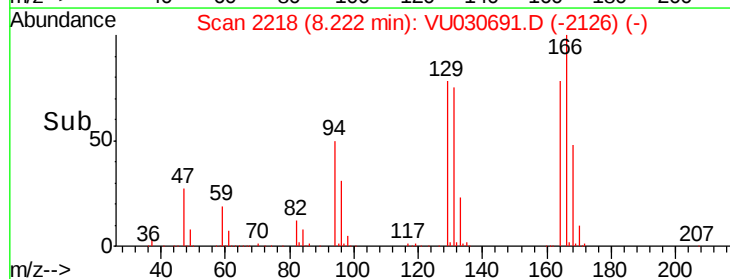
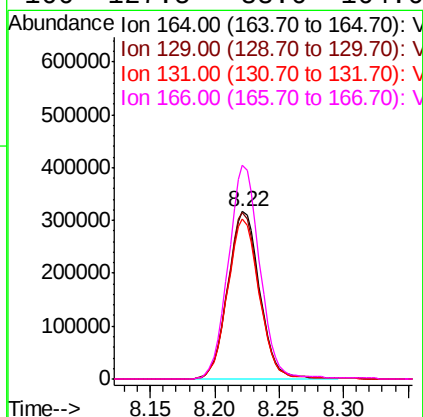
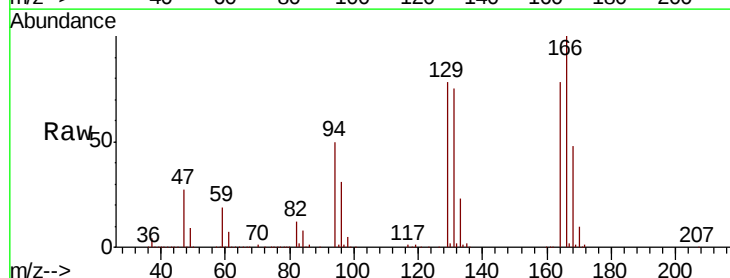
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20050

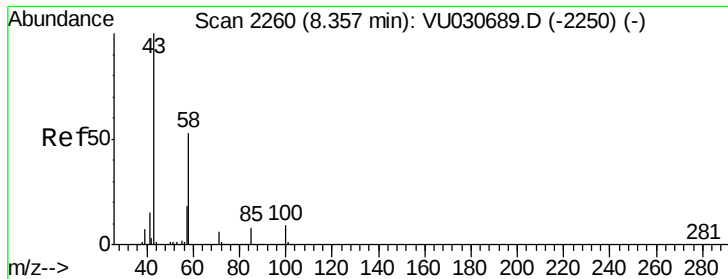
Tot Ion:	97	Resp:	743075
Ion	Ratio	Lower	Upper
97	100		
99	63.5	44.0	81.8
83	92.2	65.3	121.3
85	58.8	42.5	78.9



#46
 Tetrachloroethene
 Concen: 185.134 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. -0.00 min
 Lab File: VU030691.D
 Acq: 04 Apr 2019 18:01

Tgt Ion:	164	Resp:	544067
Ion	Ratio	Lower	Upper
164	100		
129	99.7	67.4	125.2
131	95.4	65.9	122.5
166	127.5	88.6	164.6

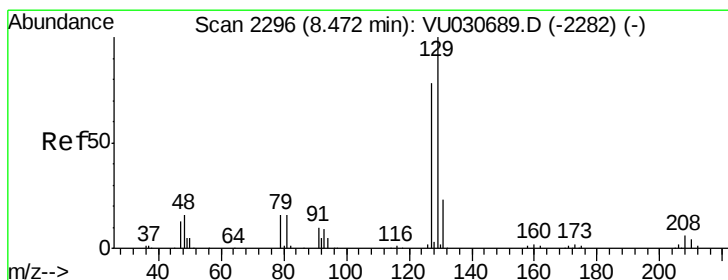
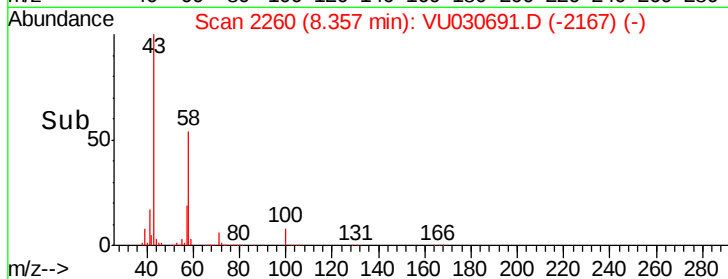
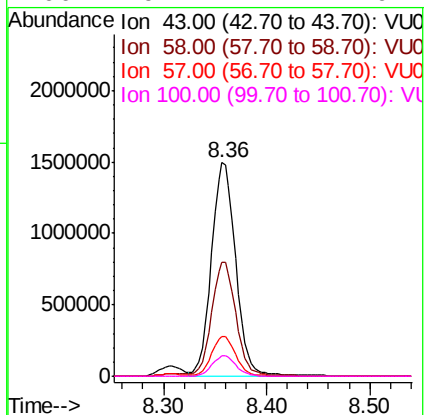
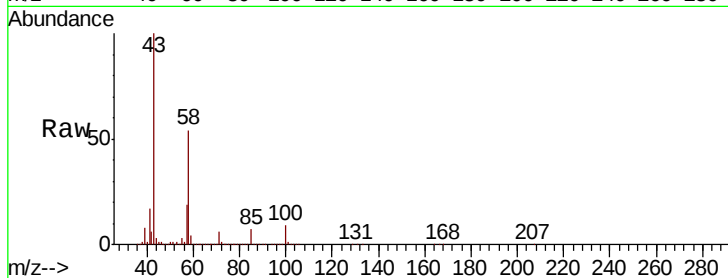




#48
2-Hexanone
Concen: 447.275 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. 0.00 min
Lab File: VU030691.D
Acq: 04 Apr 2019 18:01

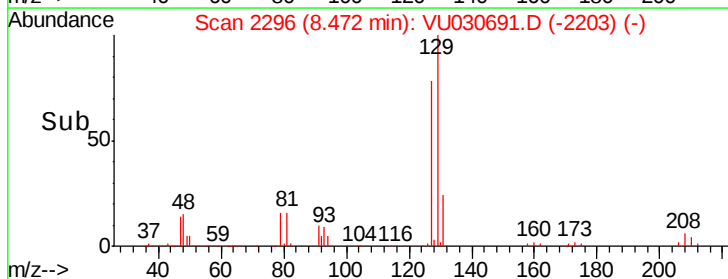
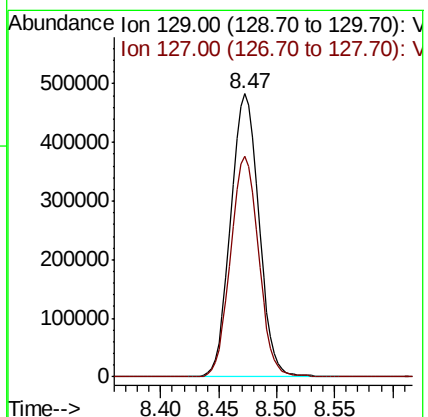
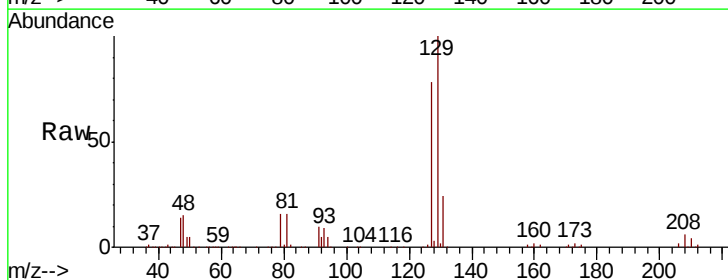
Instrument :
MSVOA_U
ClientSampleId :
VSTD20050

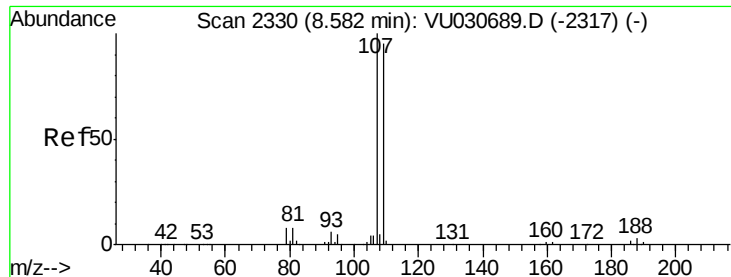
Tot Ion: 43 Resp: 2426293
Ion Ratio Lower Upper
43 100
58 53.3 41.9 62.9
57 18.5 14.3 21.5
100 9.4 7.1 10.7



#49
Dibromochloromethane
Concen: 198.916 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU030691.D
Acq: 04 Apr 2019 18:01

Tgt Ion: 129 Resp: 815842
Ion Ratio Lower Upper
129 100
127 78.2 54.5 101.3

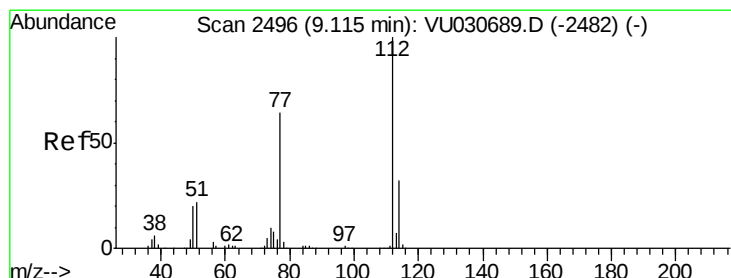
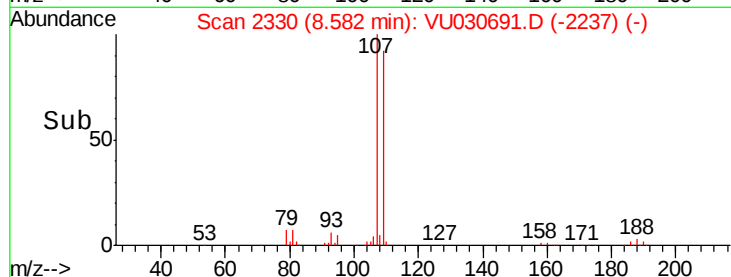
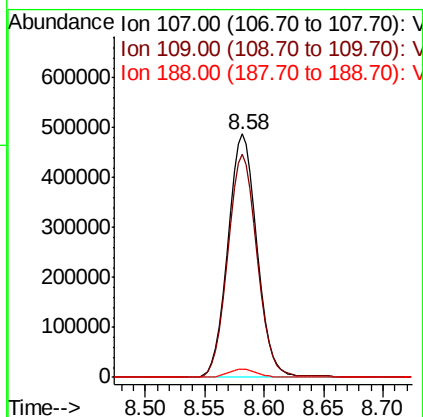
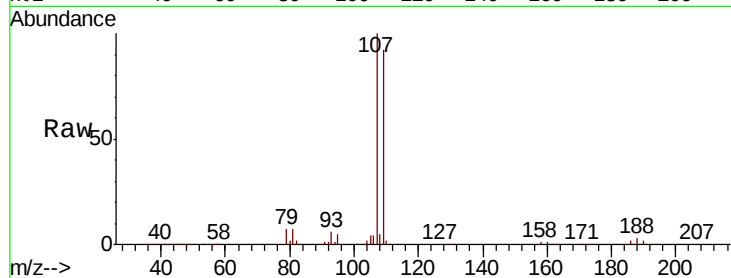




#50
1,2-Dibromoethane
Concen: 196.895 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU030691.D
Acq: 04 Apr 2019 18:01

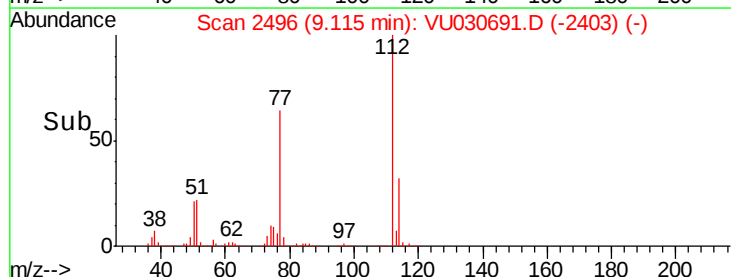
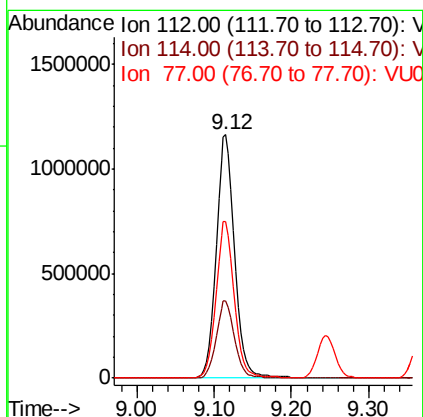
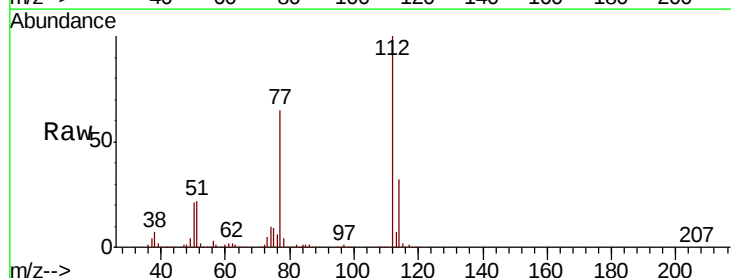
Instrument :
MSVOA_U
ClientSampleId :
VSTD20050

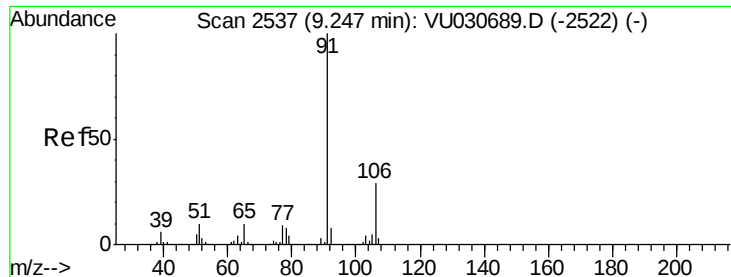
Tot Ion:107 Resp: 826778
Ion Ratio Lower Upper
107 100
109 91.6 66.4 123.2
188 3.4 2.6 4.0



#51
Chlorobenzene
Concen: 191.738 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. 0.00 min
Lab File: VU030691.D
Acq: 04 Apr 2019 18:01

Tgt Ion:112 Resp: 1956941
Ion Ratio Lower Upper
112 100
114 31.7 22.2 41.2
77 64.5 51.7 77.5





#52

Ethylbenzene

Concen: 202.702 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. -0.00 min

Lab File: VU030691.D

Acq: 04 Apr 2019 18:01

Instrument :

MSVOA_U

ClientSampleId :

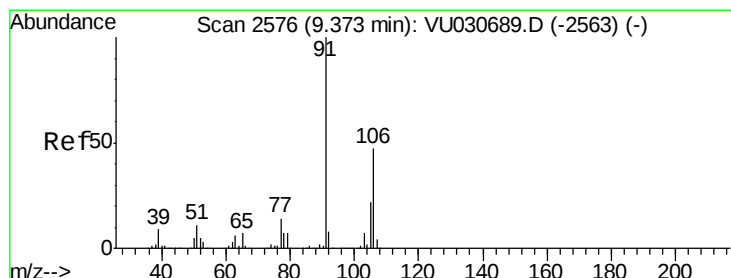
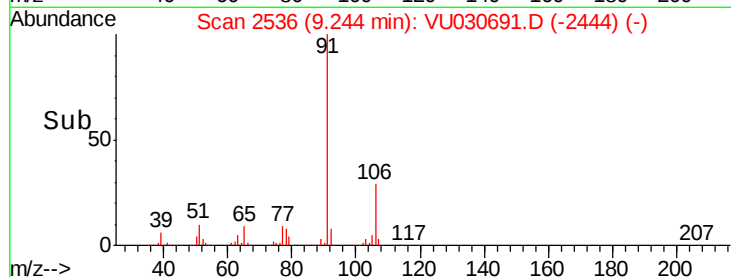
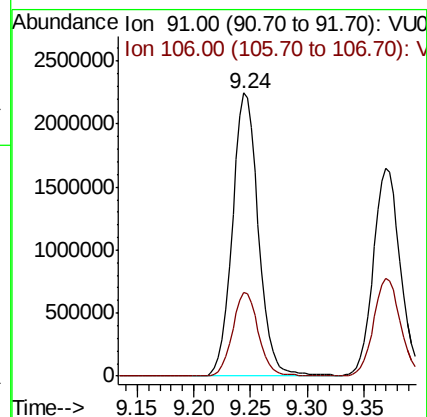
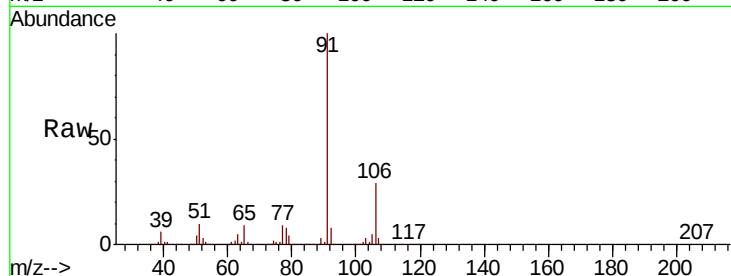
VSTD20050

Tot Ion: 91 Resp: 3601410

Ion Ratio Lower Upper

91 100

106 29.4 20.4 37.8



#53

m,p-Xylene

Concen: 213.316 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. -0.00 min

Lab File: VU030691.D

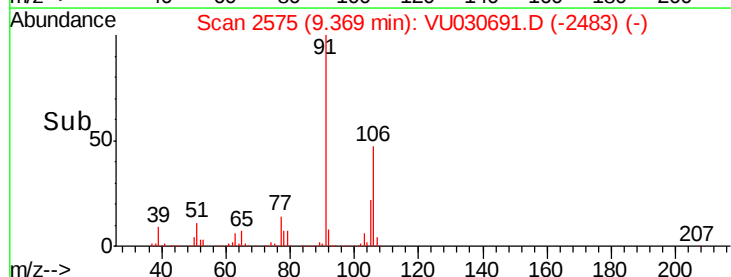
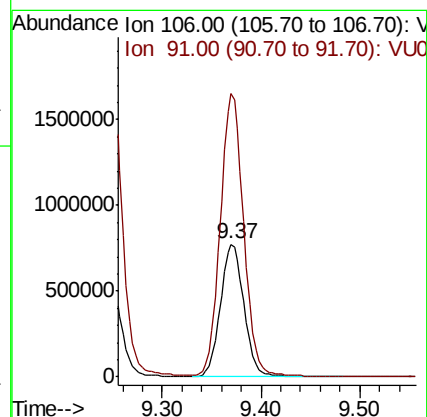
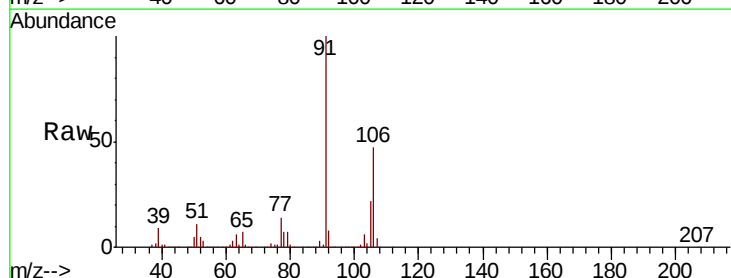
Acq: 04 Apr 2019 18:01

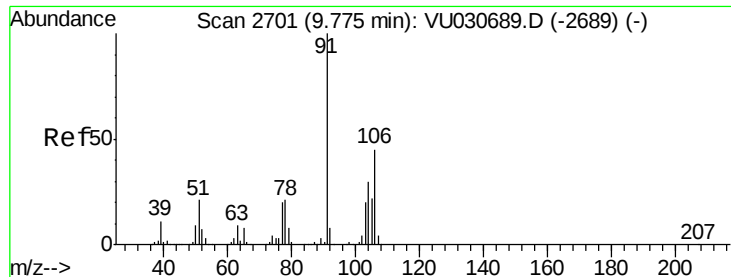
Tgt Ion: 106 Resp: 1293493

Ion Ratio Lower Upper

106 100

91 212.9 148.0 274.8





#54

o-xylene

Concen: 207.984 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU030691.D

Acq: 04 Apr 2019 18:01

Instrument :

MSVOA_U

ClientSampleId :

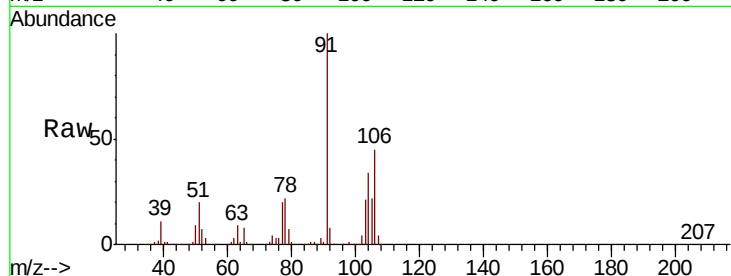
VSTD20050

Tot Ion:106 Resp: 1267434

Ion Ratio Lower Upper

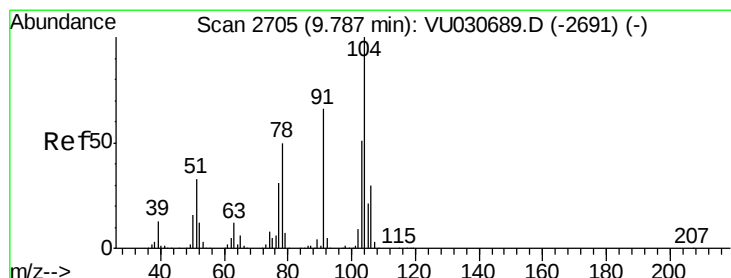
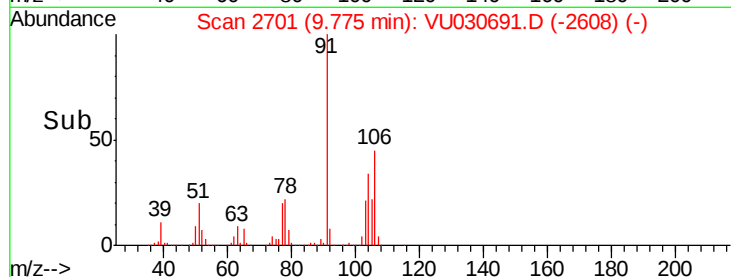
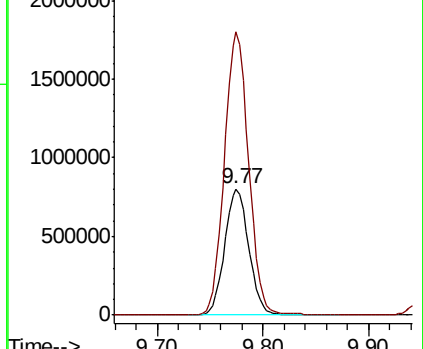
106 100

91 224.6 156.7 290.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 218.070 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU030691.D

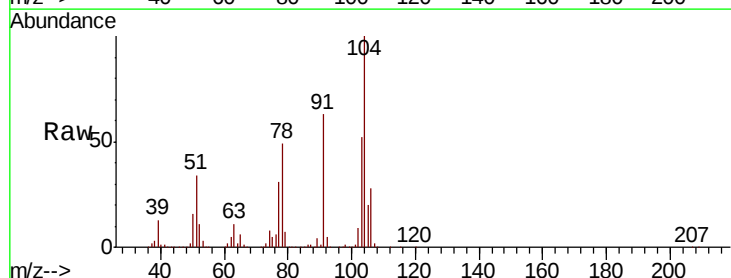
Acq: 04 Apr 2019 18:01

Tgt Ion:104 Resp: 2238667

Ion Ratio Lower Upper

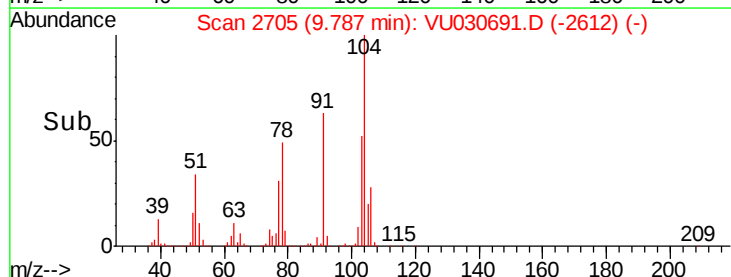
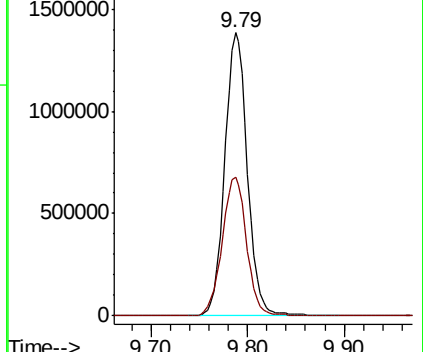
104 100

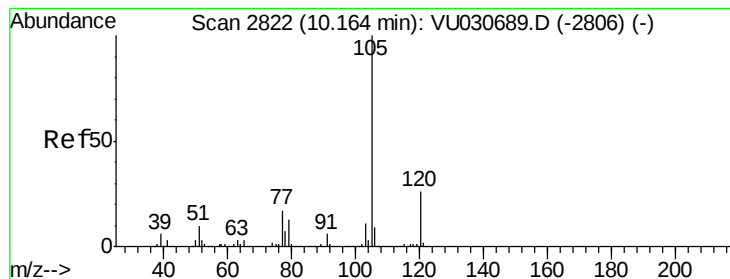
78 49.2 35.1 65.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 209.182 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. -0.00 min

Lab File: VU030691.D

Acq: 04 Apr 2019 18:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD20050

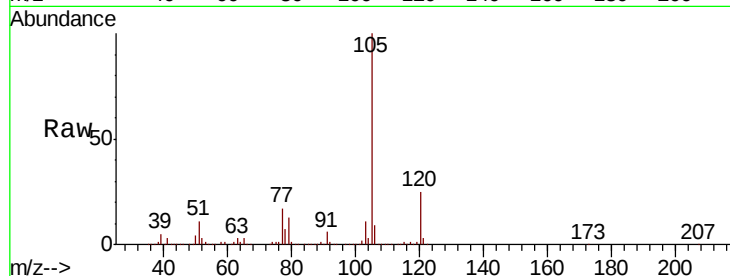
Tot Ion:105 Resp: 3348238

Ion Ratio Lower Upper

105 100

120 25.1 20.4 30.6

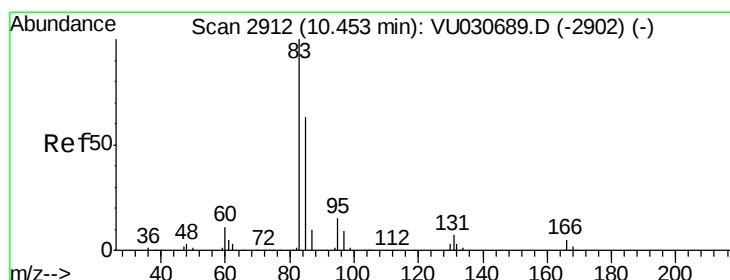
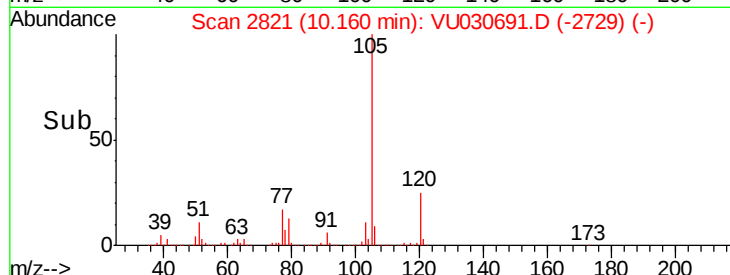
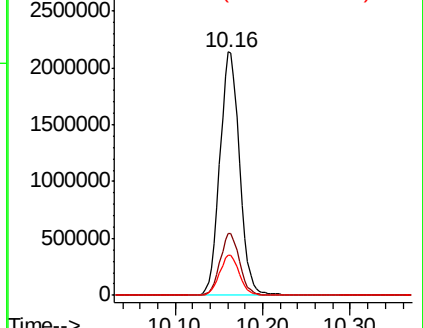
77 16.6 13.4 20.2



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: 192.920 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU030691.D

Acq: 04 Apr 2019 18:01

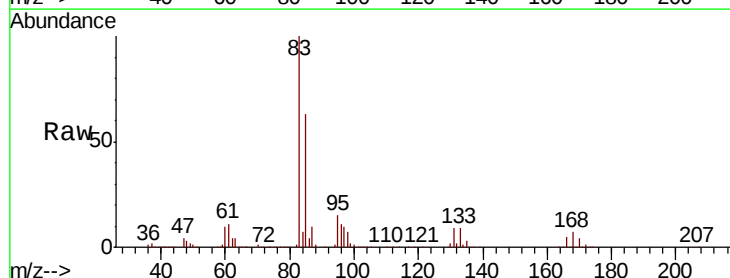
Tgt Ion: 83 Resp: 1361636

Ion Ratio Lower Upper

83 100

85 62.9 45.3 84.1

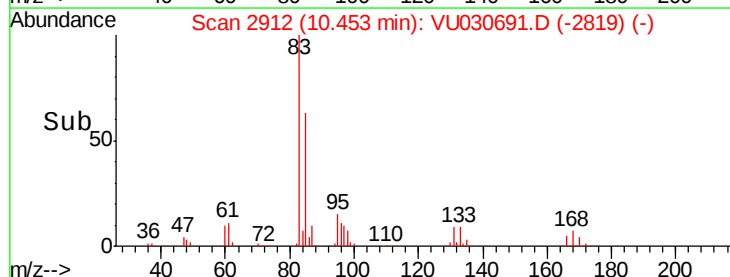
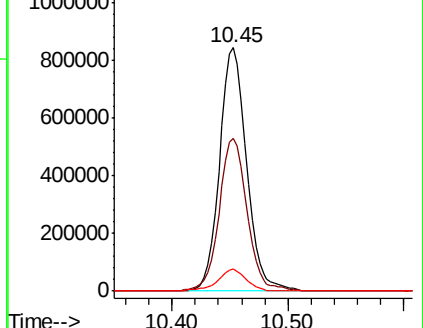
131 8.9 6.7 10.1

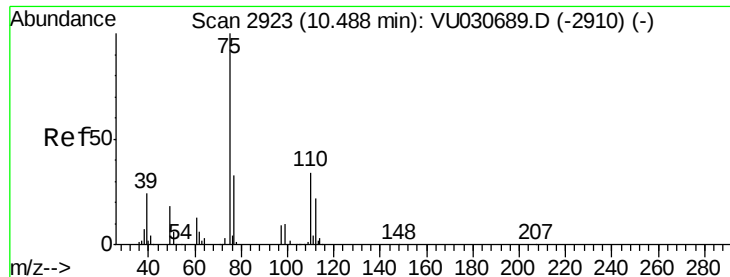


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 193.402 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. 0.00 min

Lab File: VU030691.D

Acq: 04 Apr 2019 18:01

Instrument :

MSVOA_U

ClientSampleId :

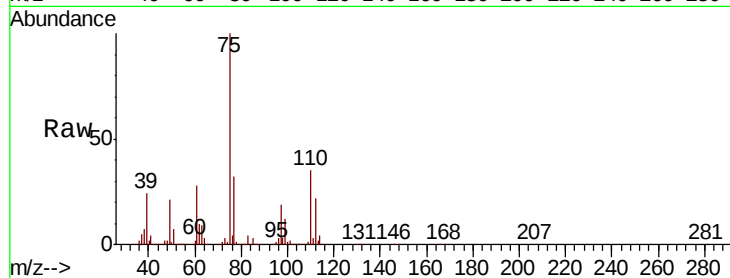
VSTD20050

Tot Ion: 75 Resp: 1061207

Ion Ratio Lower Upper

75 100

77 31.9 26.1 39.1



Abundance Ion 75.00 (74.70 to 75.70): VU030689.D (-2910) (-)

Ion 77.00 (76.70 to 77.70): VU030689.D (-2910) (-)

10.49

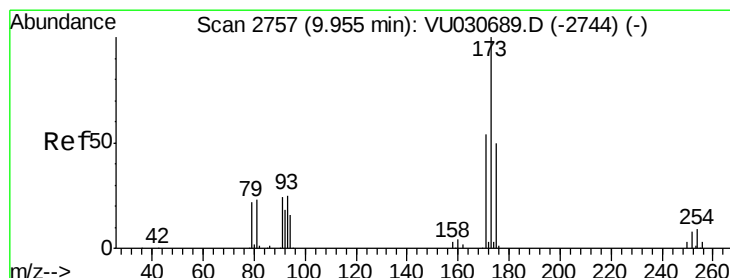
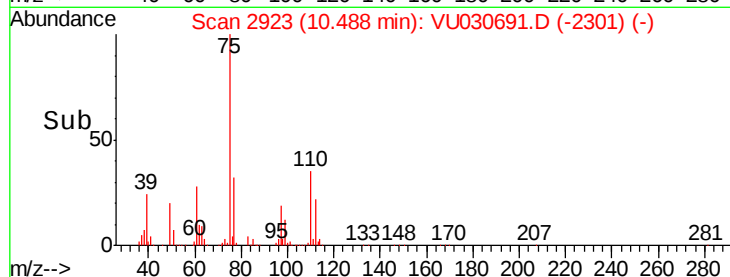
600000

400000

200000

0

Time-->



#61

Bromoform

Concen: 194.749 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU030691.D

Acq: 04 Apr 2019 18:01

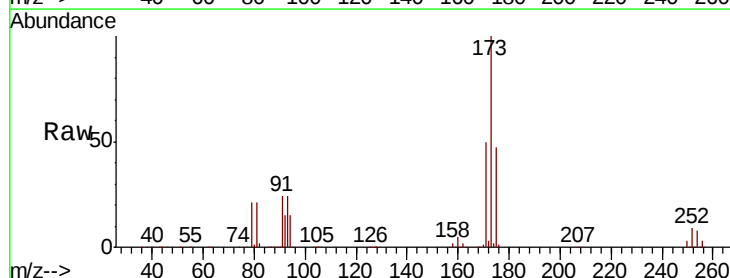
Tgt Ion: 173 Resp: 615671

Ion Ratio Lower Upper

173 100

175 47.8 39.1 58.7

254 8.3 7.3 10.9



Abundance Ion 173.00 (172.70 to 173.70): VU030689.D (-2744) (-)

Ion 175.00 (174.70 to 175.70): VU030689.D (-2744) (-)

Ion 254.00 (253.70 to 254.70): VU030689.D (-2744) (-)

9.95

500000

400000

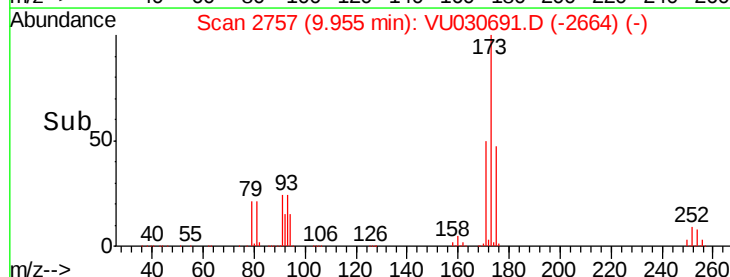
300000

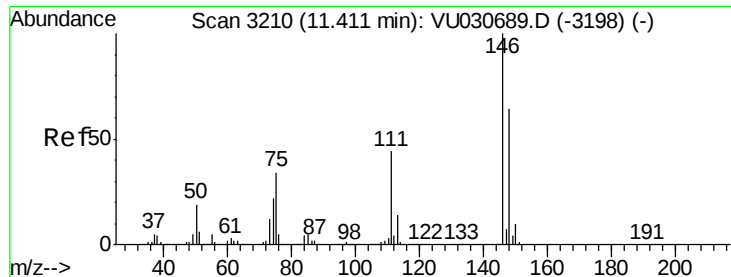
200000

100000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 189.577 ug/L

RT: 11.41 min Scan# 3210

Delta R.T. 0.00 min

Lab File: VU030691.D

Acq: 04 Apr 2019 18:01

Instrument :

MSVOA_U

ClientSampled :

VSTD20050

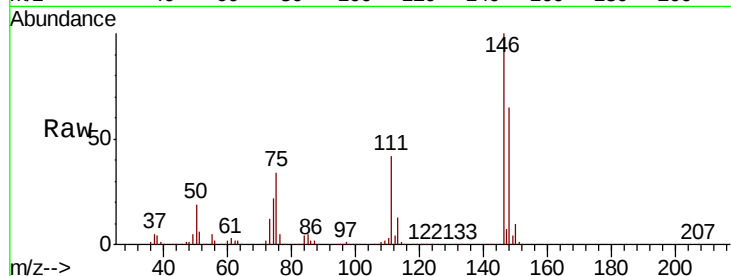
Tot Ion:146 Resp: 1442715

Ion Ratio Lower Upper

146 100

111 41.5 30.9 57.5

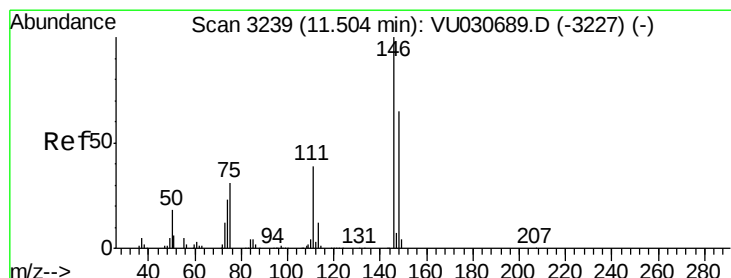
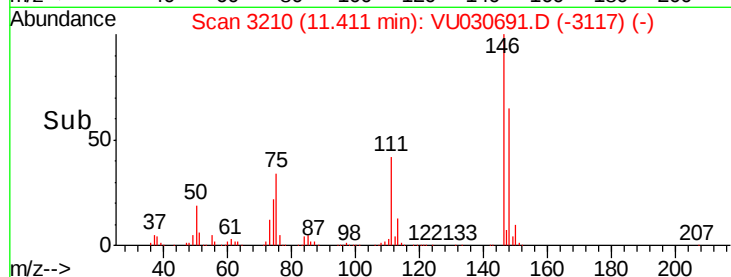
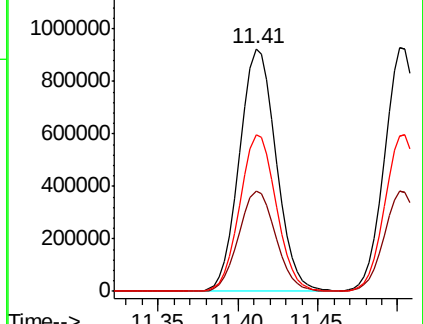
148 64.7 44.7 82.9



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: 188.173 ug/L

RT: 11.50 min Scan# 3238

Delta R.T. -0.00 min

Lab File: VU030691.D

Acq: 04 Apr 2019 18:01

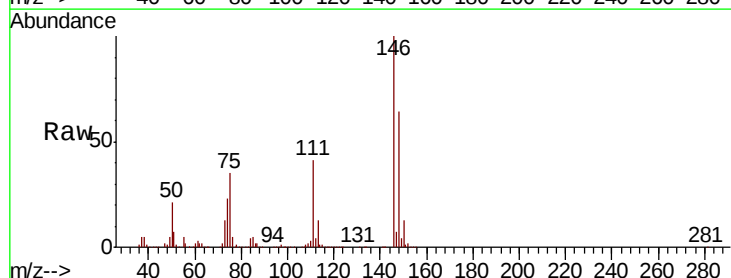
Tgt Ion:146 Resp: 1460695

Ion Ratio Lower Upper

146 100

111 41.2 27.7 51.5

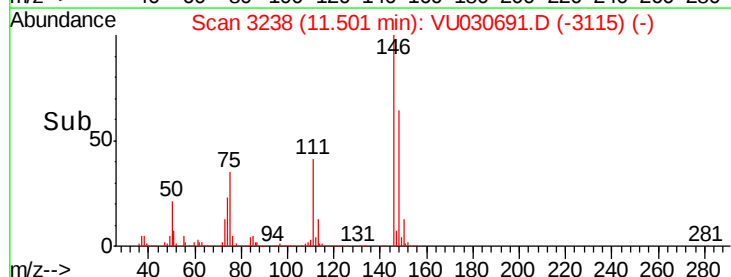
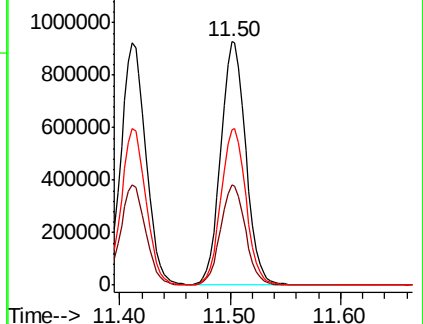
148 64.0 45.4 84.4

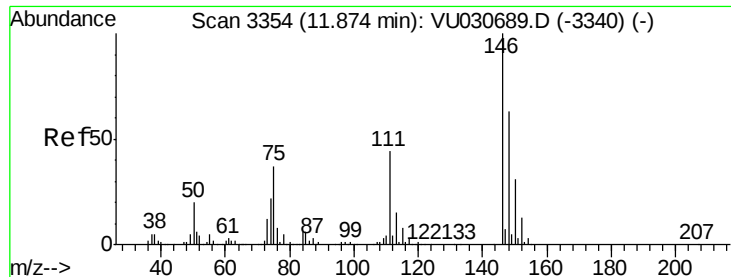


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 183.897 ug/L

RT: 11.87 min Scan# 3354

Delta R.T. 0.00 min

Lab File: VU030691.D

Acq: 04 Apr 2019 18:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD20050

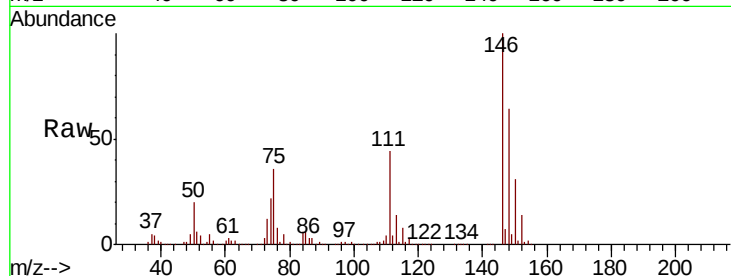
Tot Ion:146 Resp: 1415750

Ion Ratio Lower Upper

146 100

111 44.3 34.9 52.3

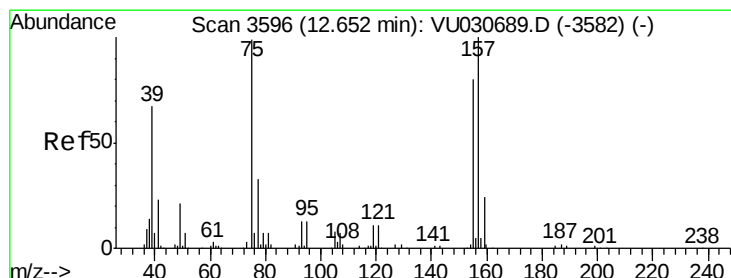
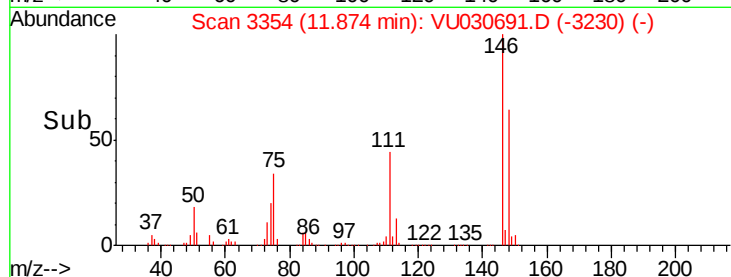
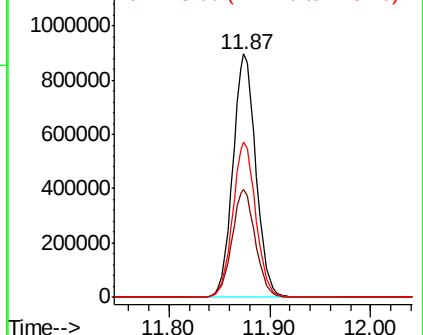
148 63.7 50.4 75.6



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: 203.385 ug/L

RT: 12.65 min Scan# 3596

Delta R.T. 0.00 min

Lab File: VU030691.D

Acq: 04 Apr 2019 18:01

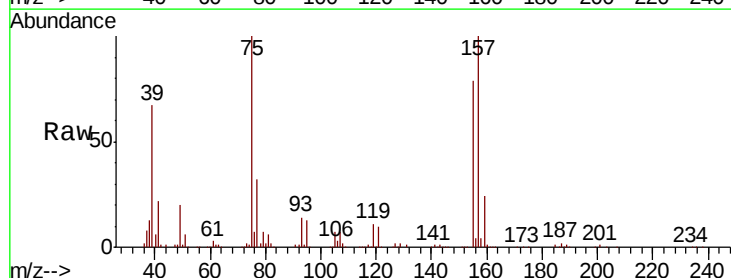
Tgt Ion: 75 Resp: 322452

Ion Ratio Lower Upper

75 100

155 78.9 64.1 96.1

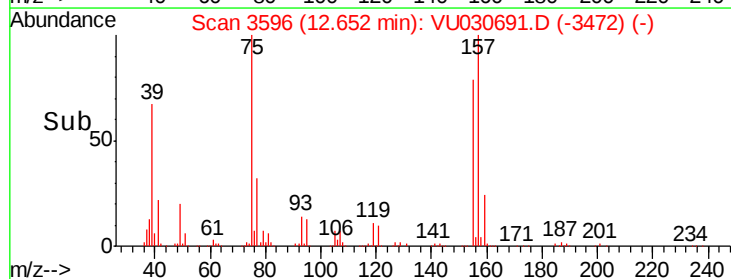
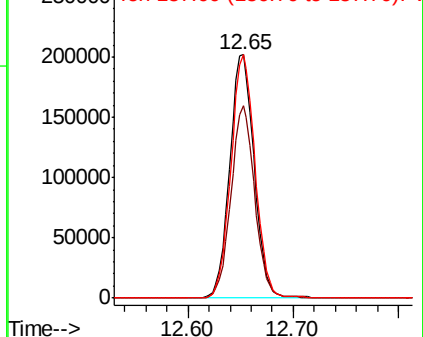
157 99.8 80.6 120.8

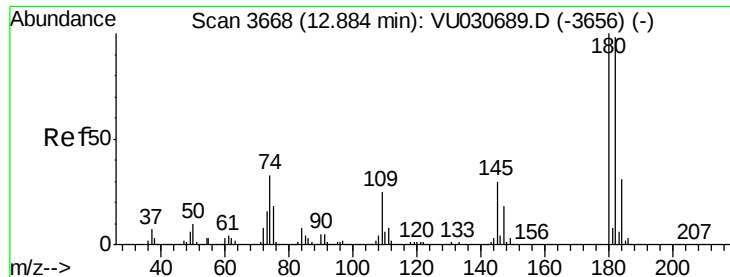


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

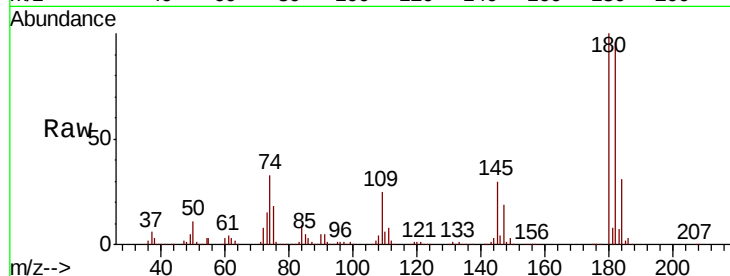




#67
 1,3,5-Trichlorobenzene
 Concen: 196.272 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU030691.D
 Acq: 04 Apr 2019 18:01

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20050

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.5	78.3	117.5
184	30.5	24.7	37.1
145	30.1	24.2	36.4



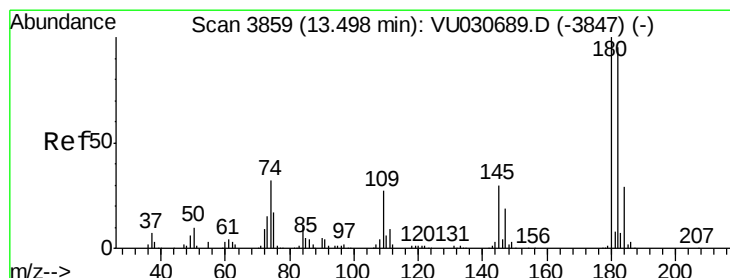
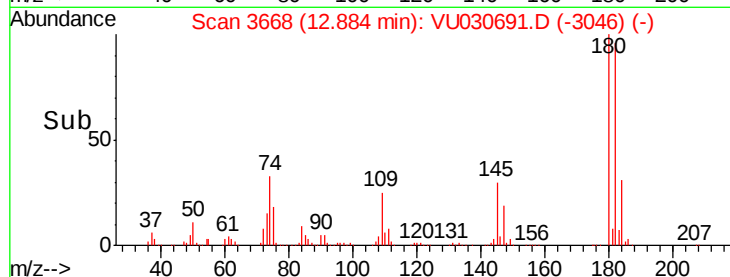
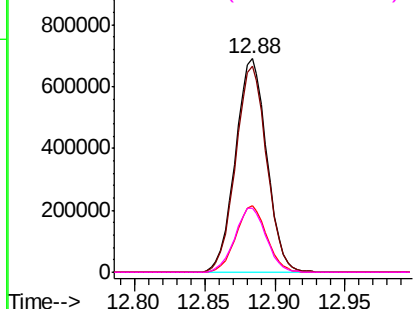
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

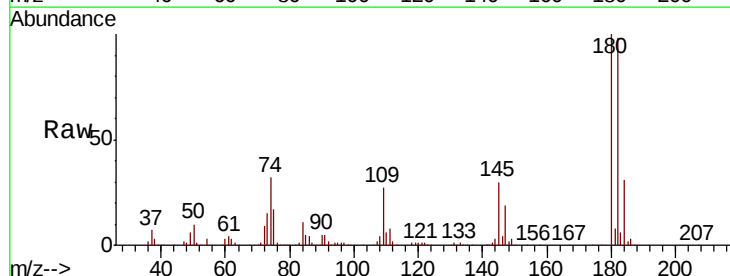
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 220.749 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU030691.D
 Acq: 04 Apr 2019 18:01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.7	76.7	115.1
145	30.2	24.4	36.6

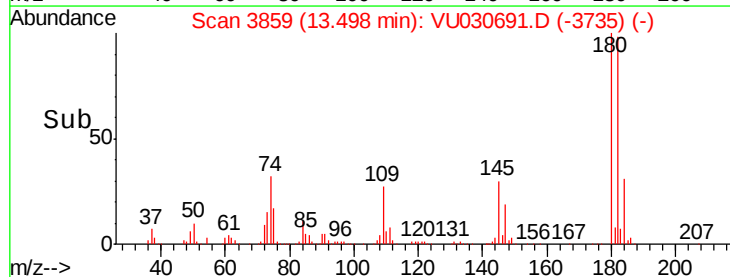
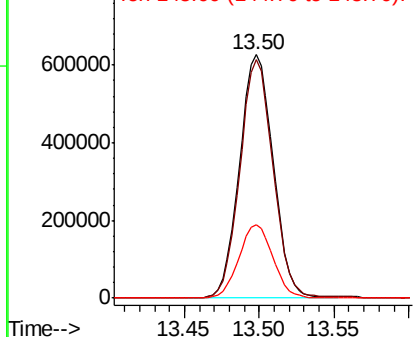


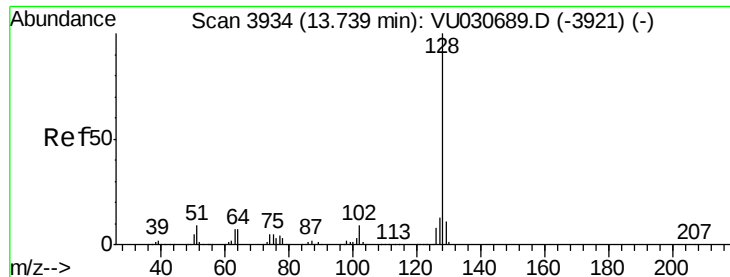
Abundance

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





#69

Naphthalene

Concen: 251.354 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU030691.D

Acq: 04 Apr 2019 18:01

Instrument :

MSVOA_U

ClientSampled :

VSTD20050

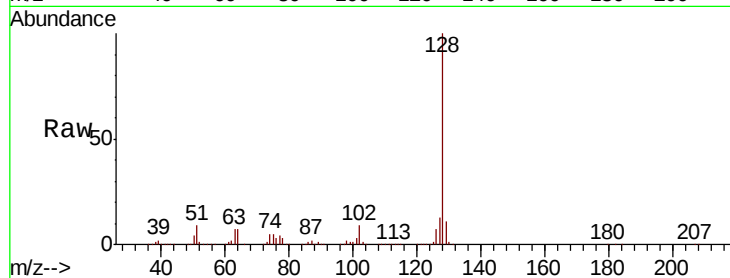
Tot Ion:128 Resp: 3442046

Ion Ratio Lower Upper

128 100

127 13.1 10.4 15.6

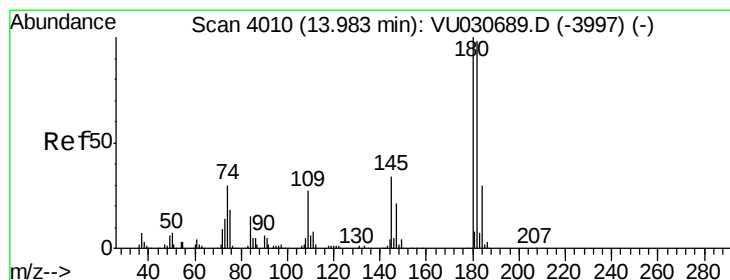
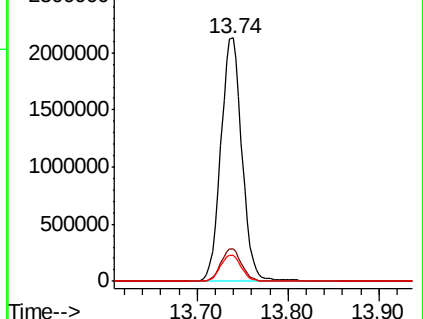
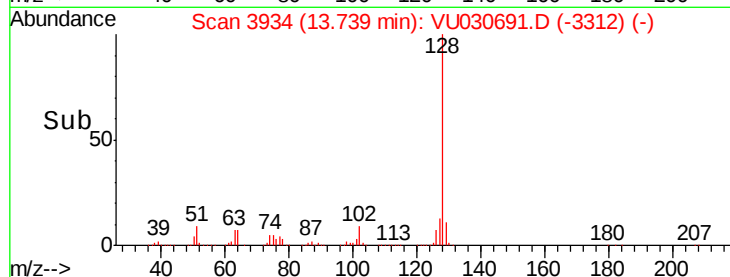
129 10.8 8.6 12.8



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: 209.718 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU030691.D

Acq: 04 Apr 2019 18:01

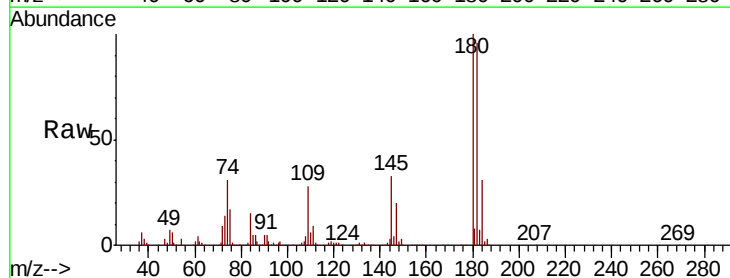
Tgt Ion:180 Resp: 997009

Ion Ratio Lower Upper

180 100

182 95.5 78.1 117.1

145 32.7 26.6 40.0



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

