

Data File : VU030909.D
Acq On : 08 Apr 2019 16:34
Operator : JC/SP
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05057

Quant Time: Apr 09 02:22:04 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Apr 09 02:16:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	558217	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	533351	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	255245	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	229538	46.06	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	92.12%
7) Chloroethane-d5	1.67	69	188438	49.82	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	99.64%
11) 1,1-Dichloroethene-d2	2.26	63	441665	49.00	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	98.00%
21) 2-Butanone-d5	4.17	46	440838	111.62	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	111.62%
24) Chloroform-d	4.64	84	398252	52.32	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.64%
26) 1,2-Dichloroethane-d4	5.31	65	266138	51.24	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.48%
32) Benzene-d6	5.33	84	784068	50.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.72%
36) 1,2-Dichloropropane-d6	6.32	67	271178	50.82	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	101.64%
41) Toluene-d8	7.56	98	685670	49.68	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.36%
43) trans-1,3-Dichloropropene-	7.85	79	126116	51.83	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	103.66%
47) 2-Hexanone-d5	8.31	63	271895	111.49	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	111.49%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	381193	52.96	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	105.92%
64) 1,2-Dichlorobenzene-d4	11.85	152	249063	49.62	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.24%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	234487	47.822 ug/L	99
3) Chloromethane	1.32	50	303439	47.843 ug/L	99
5) Vinyl chloride	1.40	62	298111	48.556 ug/L	94
6) Bromomethane	1.62	94	153821	48.359 ug/L	96
8) Chloroethane	1.69	64	176567	50.423 ug/L	97
9) Trichlorofluoromethane	1.88	101	365287	51.062 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	198568	49.678 ug/L	99
12) 1,1-Dichloroethene	2.28	96	192683	49.935 ug/L	98
13) Acetone	2.32	43	415028	102.697 ug/L	99
14) Carbon disulfide	2.47	76	552262	46.071 ug/L	97
15) Methyl Acetate	2.61	43	328902	52.490 ug/L	98
16) Methylene chloride	2.69	84	229186	48.893 ug/L	97
17) trans-1,2-Dichloroethene	2.97	96	196644	47.996 ug/L	97
18) Methyl tert-butyl Ether	2.99	73	694583	50.610 ug/L	100
19) 1,1-Dichloroethane	3.44	63	424229	50.174 ug/L	97
20) cis-1,2-Dichloroethene	4.22	96	223655	49.439 ug/L	97
22) 2-Butanone	4.26	43	523116	110.402 ug/L	95

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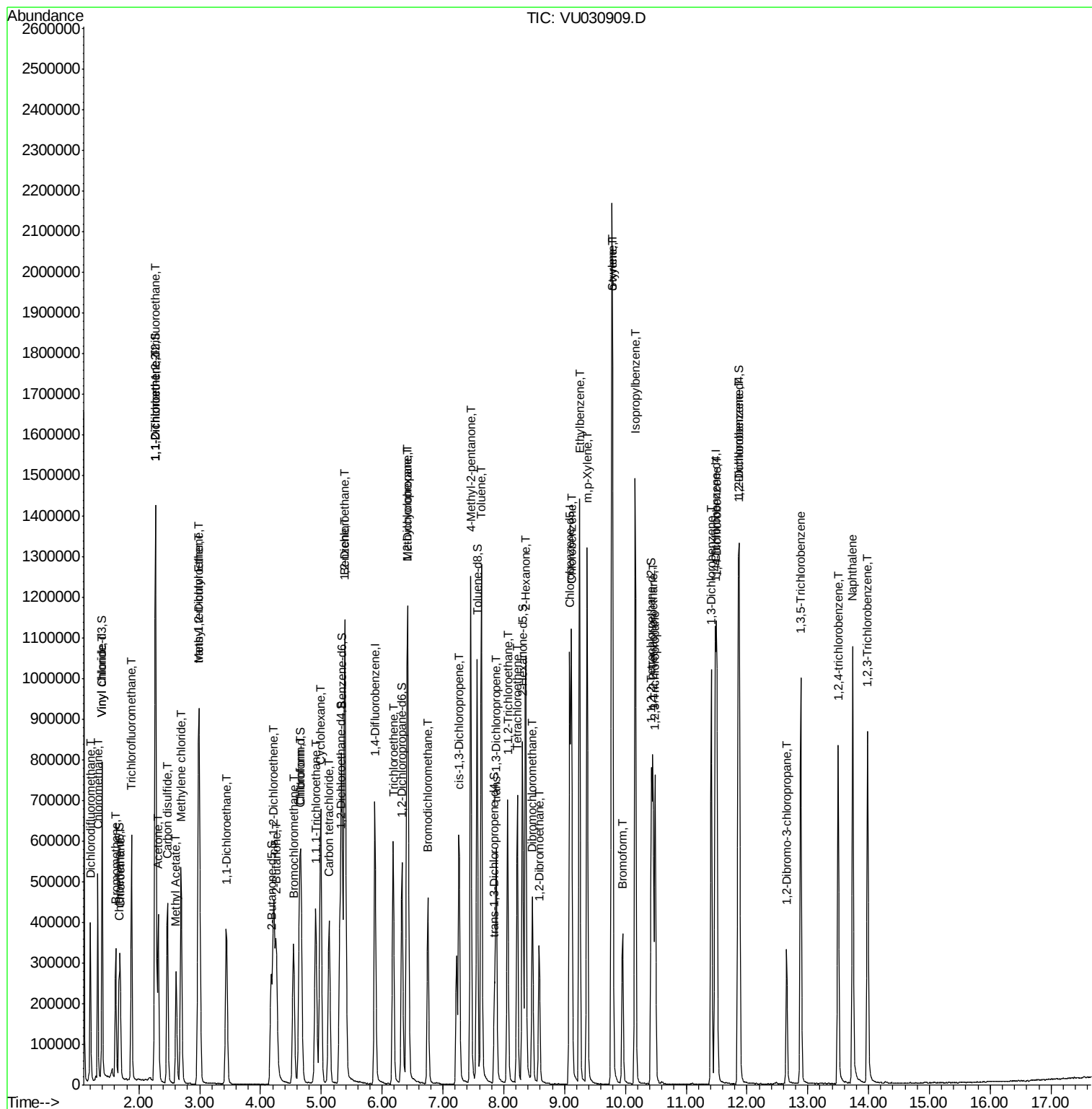
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	108845	50.893	ug/L	94
25) Chloroform	4.67	83	421551	49.606	ug/L	99
27) 1,2-Dichloroethane	5.40	62	329277	50.768	ug/L	99
29) Cyclohexane	4.99	56	369908	48.661	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	338515	52.080	ug/L	100
31) Carbon tetrachloride	5.13	117	286110	51.080	ug/L	98
33) Benzene	5.38	78	902434	51.705	ug/L	100
34) Trichloroethene	6.18	95	217677	50.850	ug/L	97
35) Methylcyclohexane	6.41	83	328667	49.750	ug/L	99
37) 1,2-Dichloropropane	6.43	63	255318	51.661	ug/L	99
38) Bromodichloromethane	6.75	83	307508	51.577	ug/L	98
39) cis-1,3-Dichloropropene	7.27	75	366426	52.090	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	854396	107.506	ug/L	100
42) Toluene	7.63	91	931389	52.278	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	328498	52.990	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	217224	51.825	ug/L	98
46) Tetrachloroethene	8.22	164	157411	50.578	ug/L	99
48) 2-Hexanone	8.36	43	690895	111.426	ug/L	98
49) Dibromochloromethane	8.47	129	231602	52.074	ug/L	98
50) 1,2-Dibromoethane	8.58	107	228349	50.347	ug/L	100
51) Chlorobenzene	9.12	112	554272	50.725	ug/L	99
52) Ethylbenzene	9.25	91	1002887	51.642	ug/L	100
53) m,p-Xylene	9.37	106	353752	52.230	ug/L	99
54) o-xylene	9.77	106	351662	52.198	ug/L	98
55) Styrene	9.79	104	623108	53.922	ug/L	100
56) Isopropylbenzene	10.16	105	930539	52.461	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	392753	51.805	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	319865	54.040	ug/L	98
61) Bromoform	9.95	173	169373	50.231	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	392158	48.612	ug/L	97
63) 1,4-Dichlorobenzene	11.50	146	405632	49.433	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	406511	50.237	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	90175	52.421	ug/L	89
67) 1,3,5-Trichlorobenzene	12.88	180	298081	50.561	ug/L	98
68) 1,2,4-trichlorobenzene	13.50	180	254655	50.803	ug/L	98
69) Naphthalene	13.74	128	847370	52.147	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	273480	52.219	ug/L	97

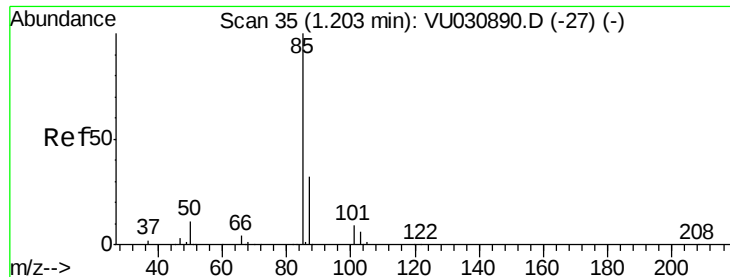
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 47.822 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU030909.D

Acq: 08 Apr 2019 16:34

Instrument :

MSVOA_U

ClientSampleId :

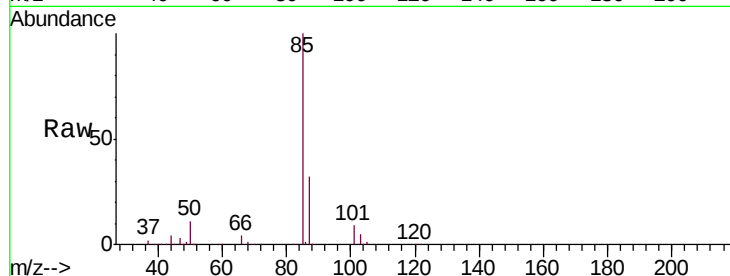
VSTD05057

Tgt Ion: 85 Resp: 234487

Ion Ratio Lower Upper

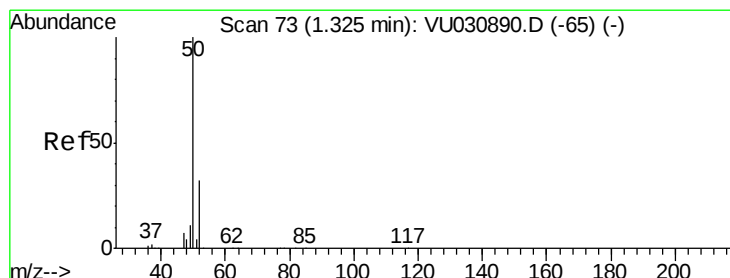
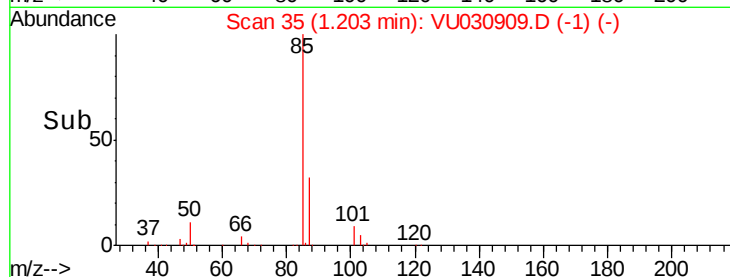
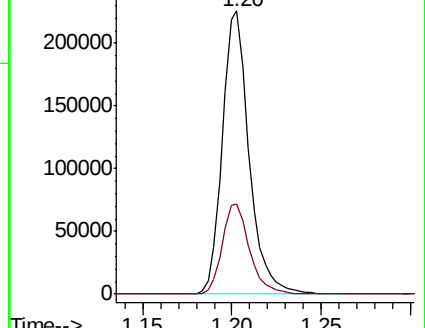
85 100

87 32.7 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VU030890.D (-27) (-)

Ion 87.00 (86.70 to 87.70): VU030890.D (-27) (-)



#3

Chloromethane

Concen: 47.843 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU030909.D

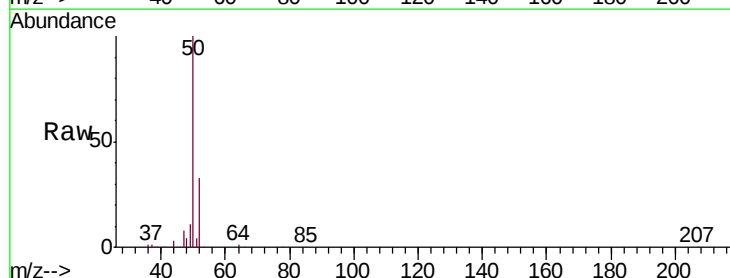
Acq: 08 Apr 2019 16:34

Tgt Ion: 50 Resp: 303439

Ion Ratio Lower Upper

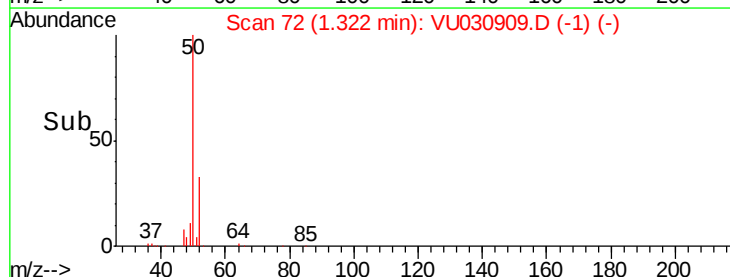
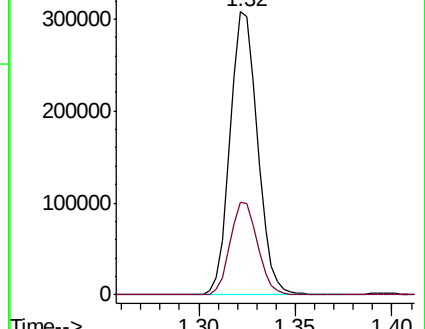
50 100

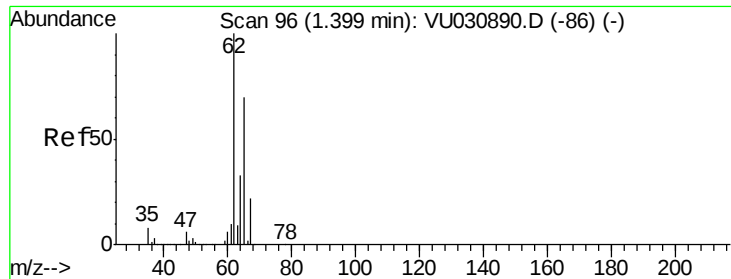
52 32.8 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VU030890.D (-65) (-)

Ion 52.00 (51.70 to 52.70): VU030890.D (-65) (-)





#5

Vinyl chloride

Concen: 48.556 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU030909.D

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Instrument :

MSVOA_U

ClientSampleId :

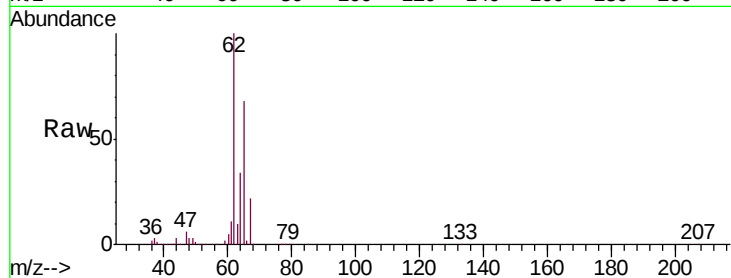
VSTD05057

Tgt Ion: 62 Resp: 298111

Ion Ratio Lower Upper

62 100

64 34.1 21.5 39.9



Abundance Ion 62.00 (61.70 to 62.70): VU030890.D (-86) (-)

Ion 64.00 (63.70 to 64.70): VU030890.D (-86) (-)

1.40

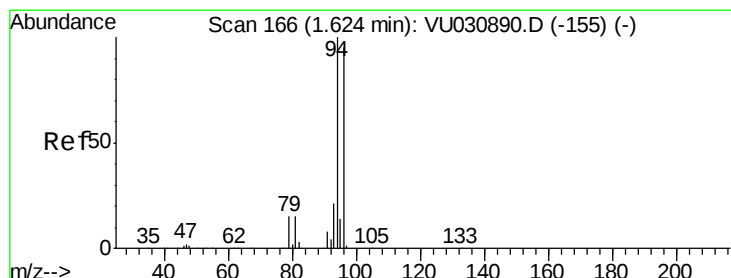
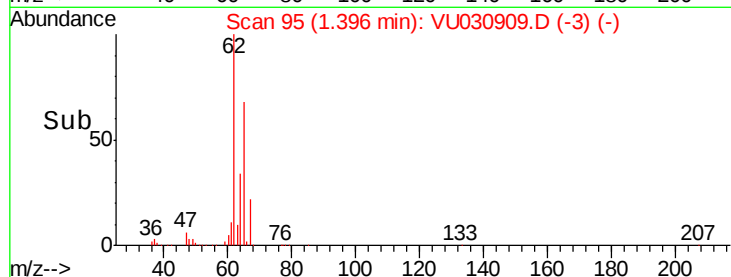
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 48.359 ug/L

RT: 1.62 min Scan# 164

Delta R.T. -0.01 min

Lab File: VU030909.D

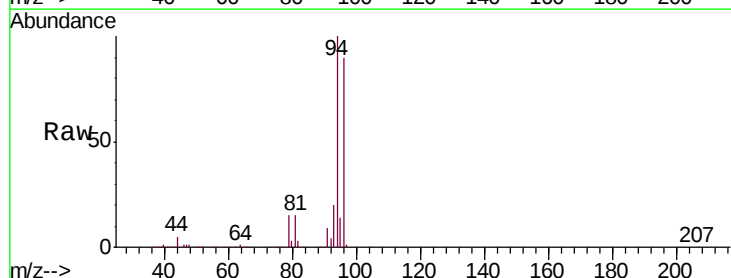
Acq: 08 Apr 2019 16:34

Tgt Ion: 94 Resp: 153821

Ion Ratio Lower Upper

94 100

96 90.1 65.5 121.7



Abundance Ion 94.00 (93.70 to 94.70): VU030890.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU030890.D (-155) (-)

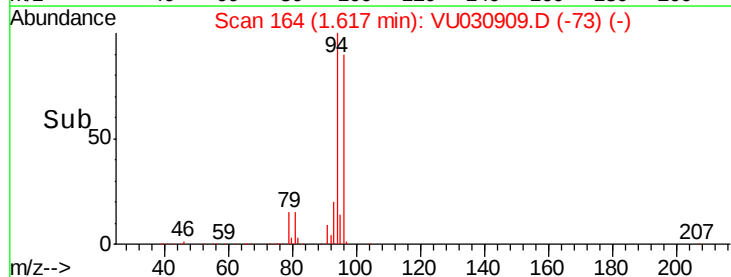
1.62

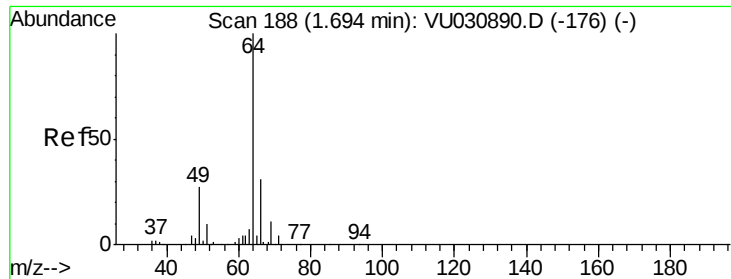
100000

50000

0

Time-->





#8

Chloroethane

Concen: 50.423 ug/L

RT: 1.69 min Scan# 187

Delta R.T. -0.00 min

Lab File: VU030909.D

Acq: 08 Apr 2019 16:34

Instrument :

MSVOA_U

ClientSampleId :

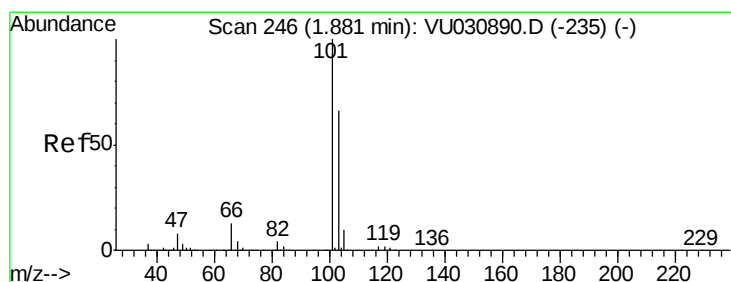
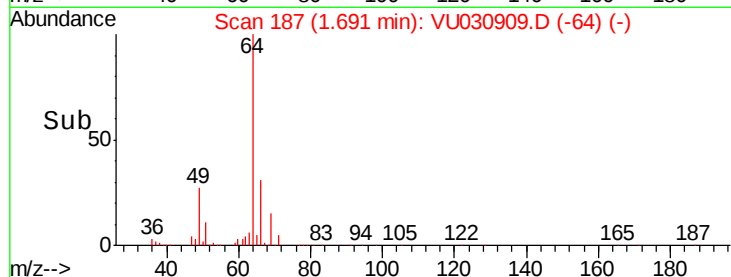
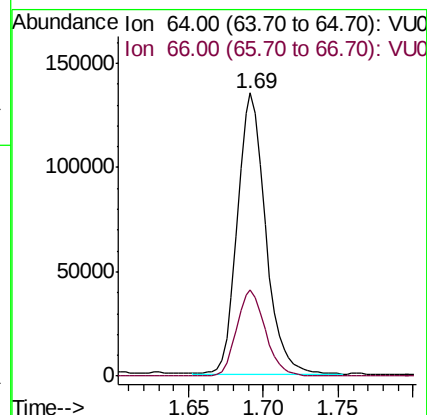
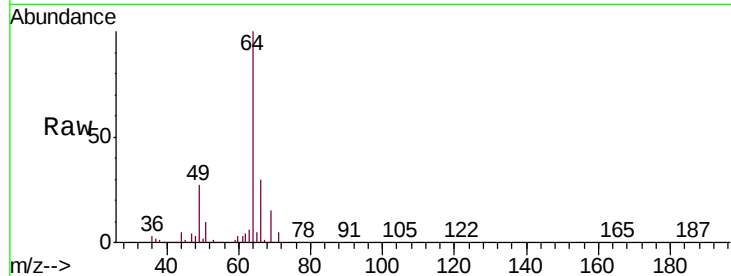
VSTD05057

Tgt Ion: 64 Resp: 176567

Ion Ratio Lower Upper

64 100

66 30.4 22.4 41.6



#9

Trichlorofluoromethane

Concen: 51.062 ug/L

RT: 1.88 min Scan# 245

Delta R.T. -0.00 min

Lab File: VU030909.D

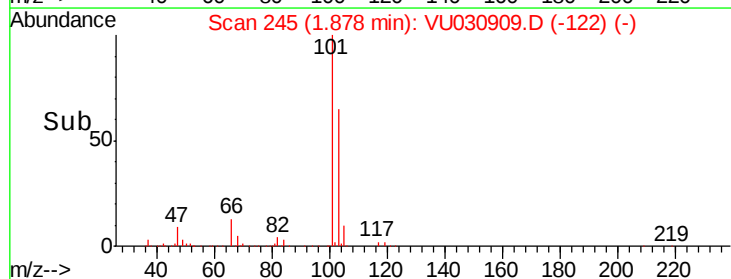
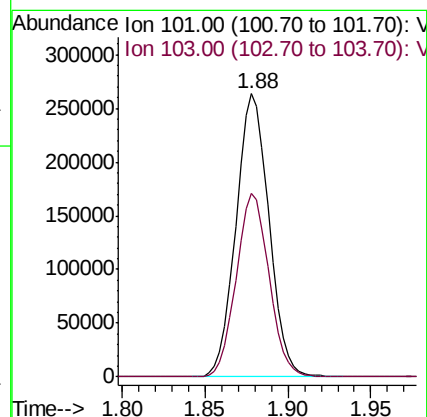
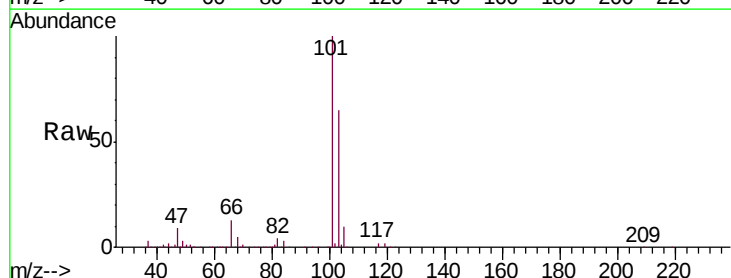
Acq: 08 Apr 2019 16:34

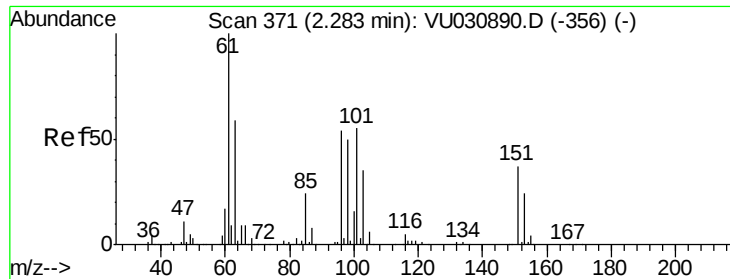
Tgt Ion: 101 Resp: 365287

Ion Ratio Lower Upper

101 100

103 64.5 51.8 77.8





#10

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

Concen: 49.678 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.01 min

Lab File: VU030909.D

Acq: 08 Apr 2019 16:34

Instrument :

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ClientSampleId :

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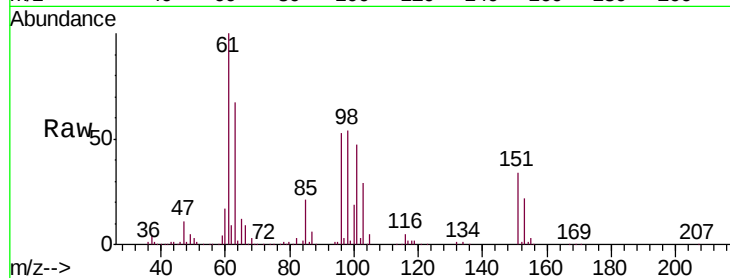
Tgt Ion:101 Resp: 198568

Ion Ratio Lower Upper

101 100

85 45.0 36.8 55.2

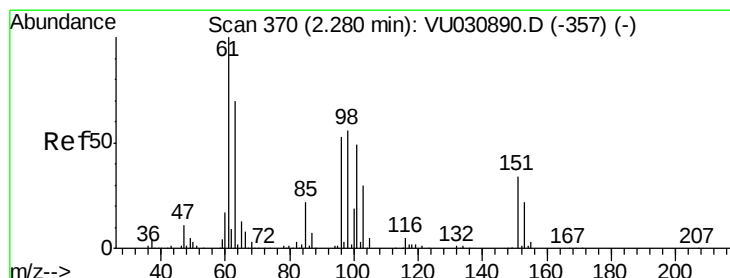
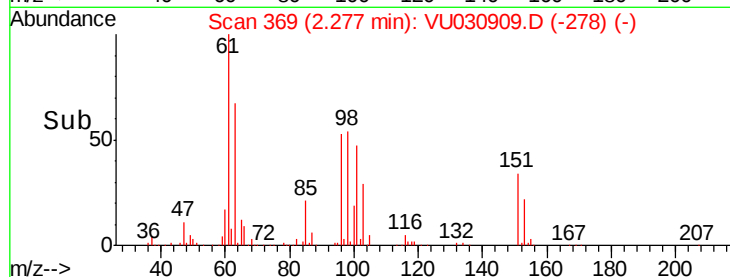
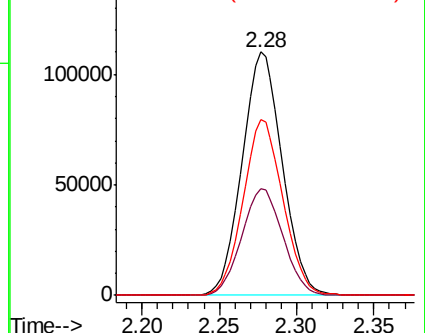
151 71.8 57.4 86.0



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: 49.935 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.00 min

Lab File: VU030909.D

Acq: 08 Apr 2019 16:34

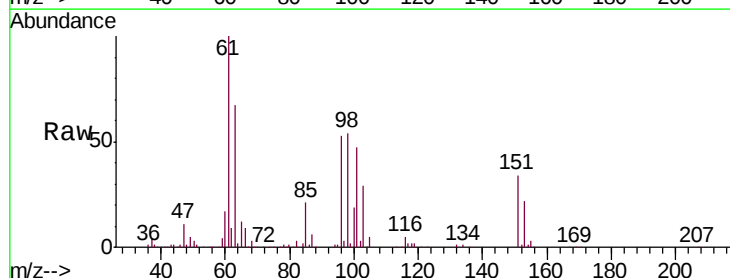
Tgt Ion: 96 Resp: 192683

Ion Ratio Lower Upper

96 100

61 187.3 132.0 245.2

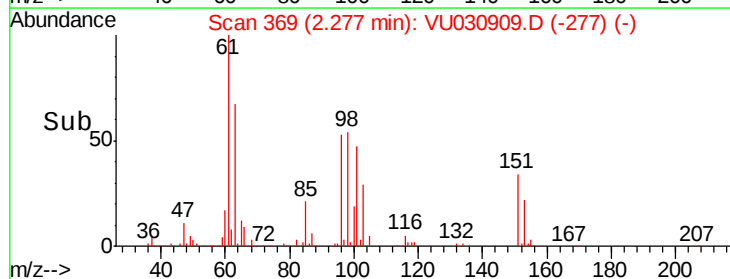
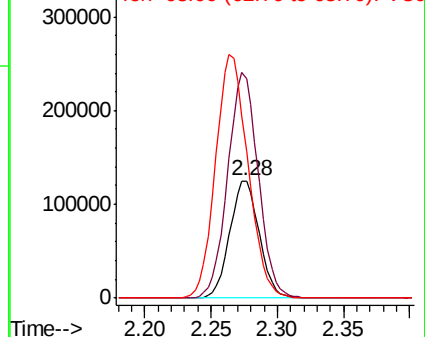
63 125.0 90.9 168.9

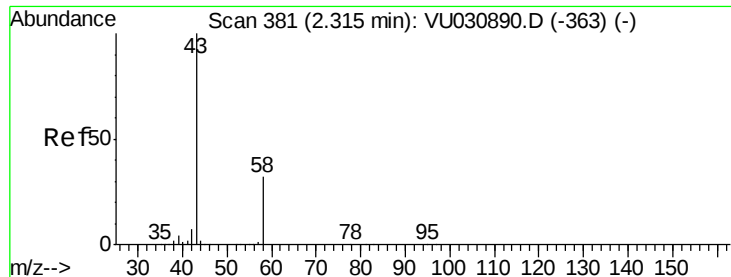


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 102.697 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

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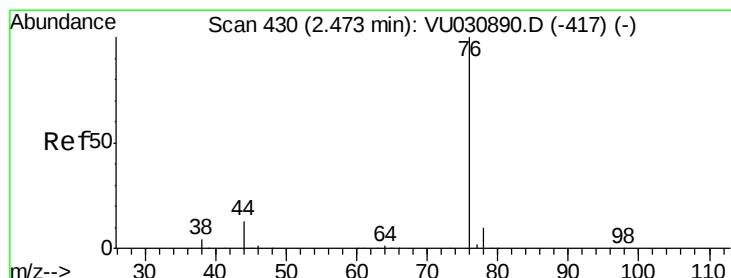
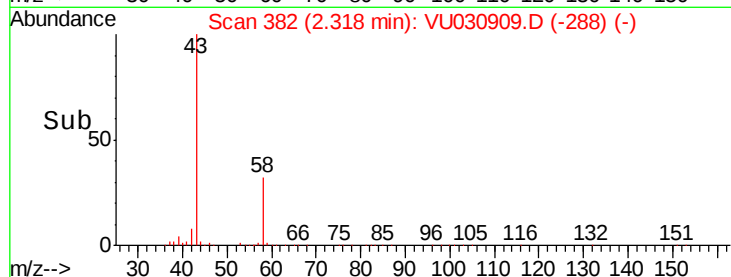
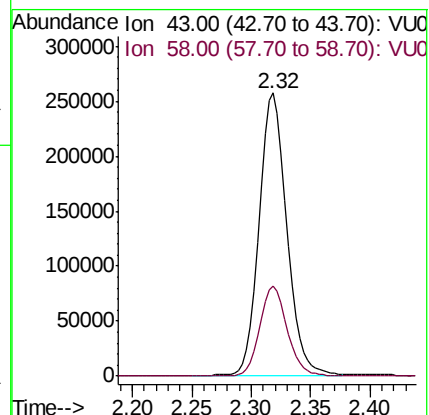
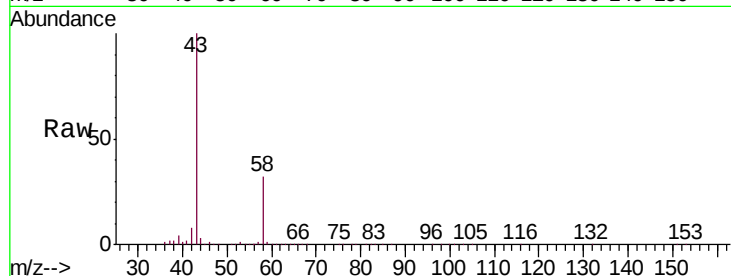
VSTD05057

Tgt Ion: 43 Resp: 415028

Ion Ratio Lower Upper

43 100

58 31.3 0.0 64.0



#14

Carbon disulfide

Concen: 46.071 ug/L

RT: 2.47 min Scan# 429

Delta R.T. -0.00 min

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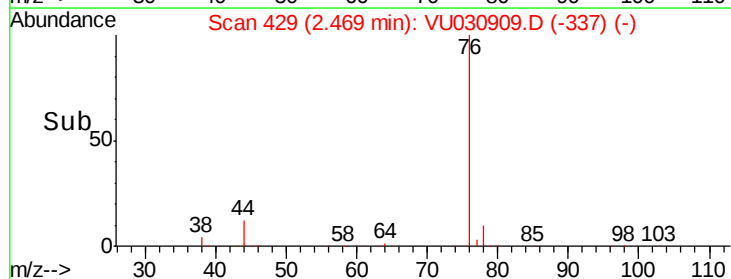
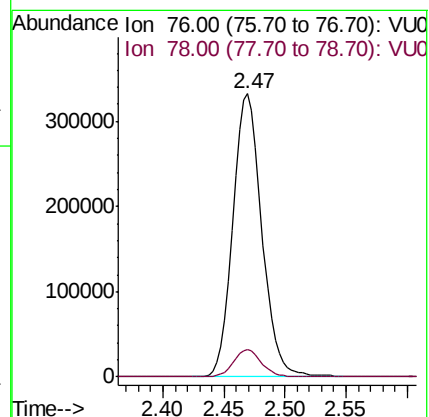
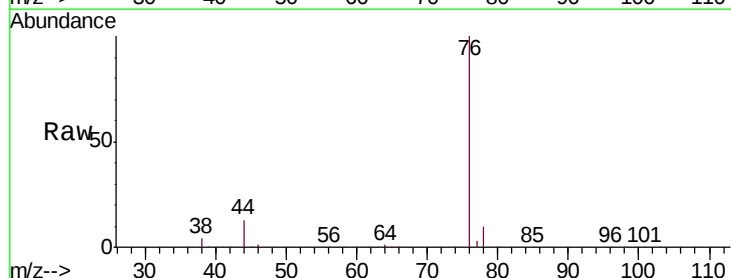
Acq: 08 Apr 2019 16:34

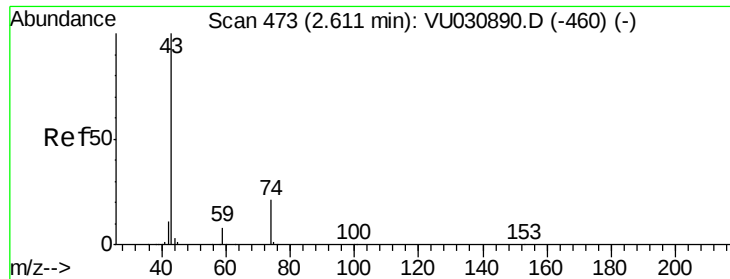
Tgt Ion: 76 Resp: 552262

Ion Ratio Lower Upper

76 100

78 9.7 7.0 10.4

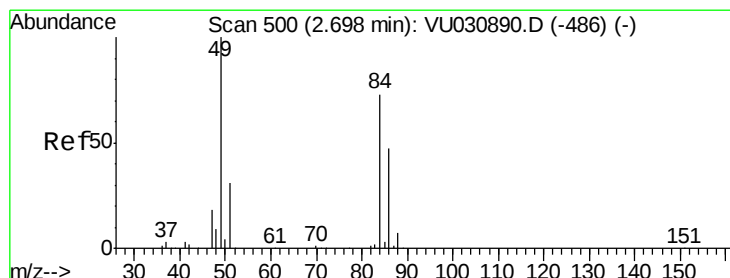
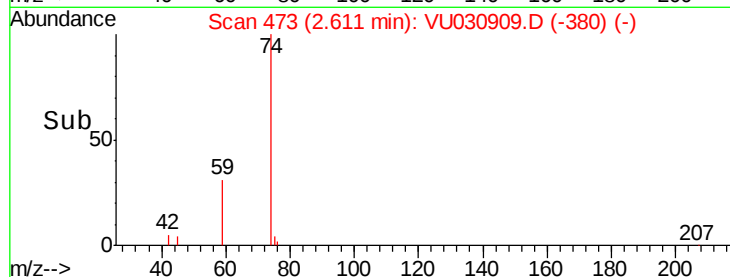
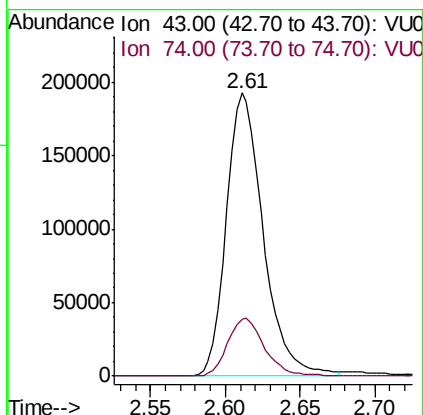
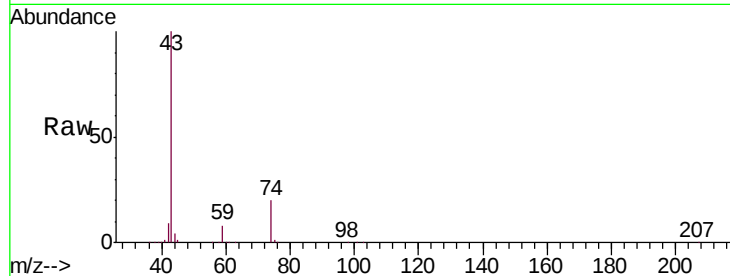




#15
Methyl Acetate
Concen: 52.490 ug/L
RT: 2.61 min Scan# 473
Delta R.T. 0.00 min
Lab File: VU030909.D
Acq: 08 Apr 2019 16:34

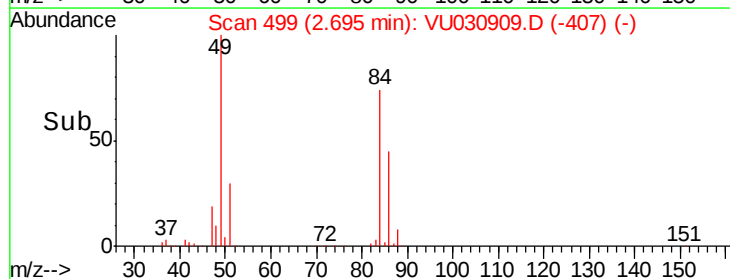
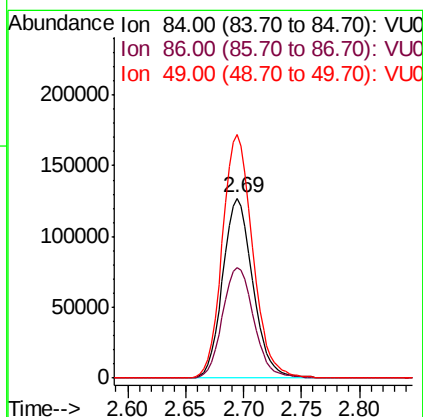
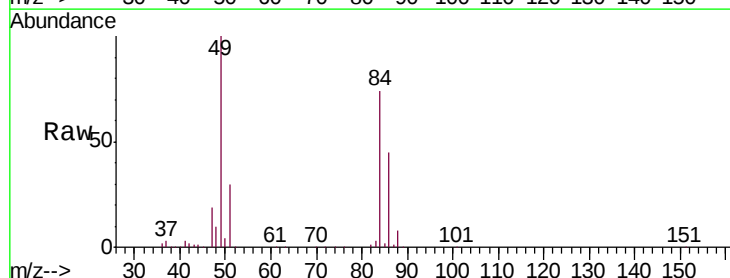
Instrument :
MSVOA_U
ClientSampleId :
VSTD05057

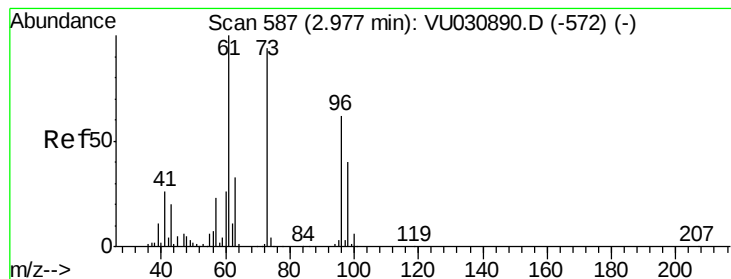
Tgt Ion: 43 Resp: 328902
Ion Ratio Lower Upper
43 100
74 20.6 17.1 25.7



#16
Methylene chloride
Concen: 48.893 ug/L
RT: 2.69 min Scan# 499
Delta R.T. -0.00 min
Lab File: VU030909.D
Acq: 08 Apr 2019 16:34

Tgt Ion: 84 Resp: 229186
Ion Ratio Lower Upper
84 100
86 61.3 45.1 83.7
49 135.4 96.5 179.1





#17

trans-1,2-Dichloroethene

Concen: 47.996 ug/L

RT: 2.97 min Scan# 586

Delta R.T. -0.00 min

Lab File: VU030909.D

Acq: 08 Apr 2019 16:34

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

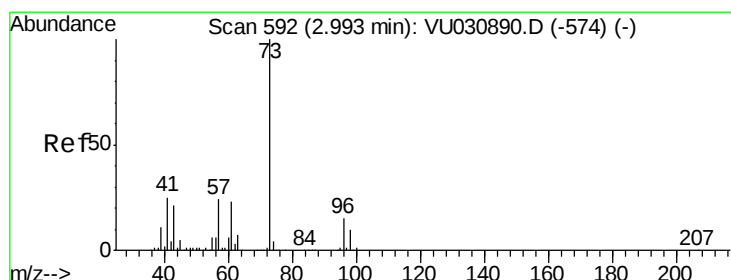
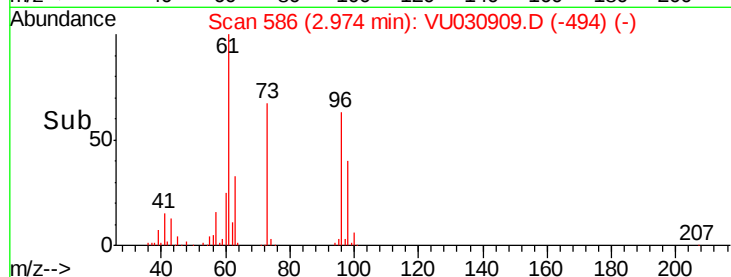
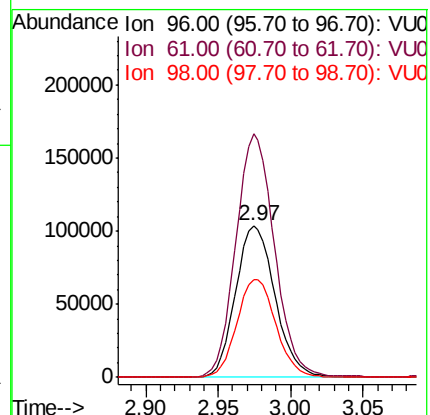
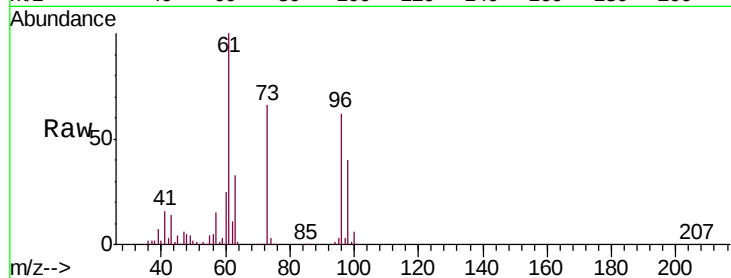
Tgt Ion: 96 Resp: 196644

Ion Ratio Lower Upper

96 100

61 160.2 109.5 203.3

98 64.6 44.0 81.6



#18

Methyl tert-butyl Ether

Concen: 50.610 ug/L

RT: 2.99 min Scan# 592

Delta R.T. 0.00 min

Lab File: VU030909.D

Acq: 08 Apr 2019 16:34

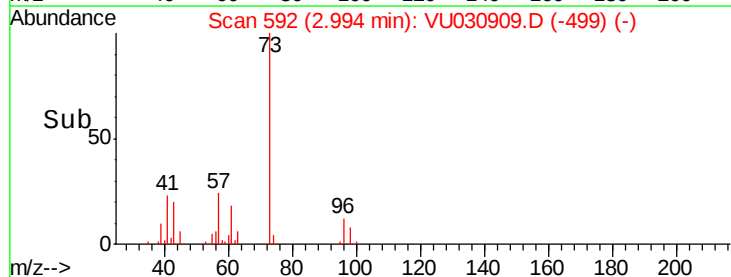
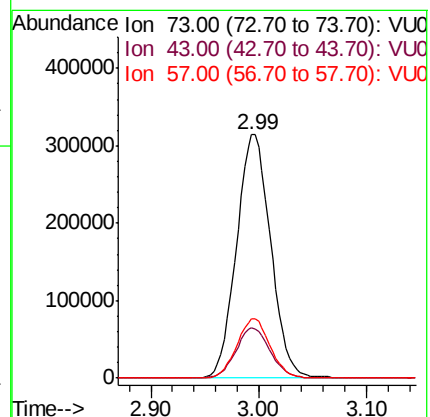
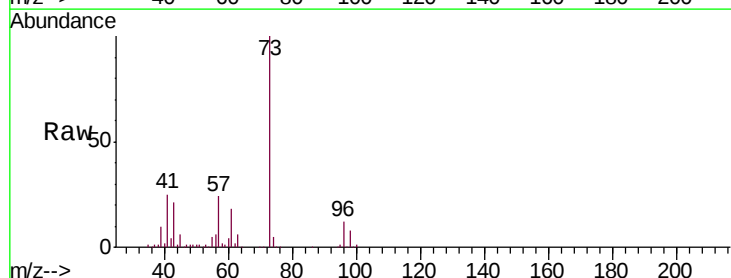
Tgt Ion: 73 Resp: 694583

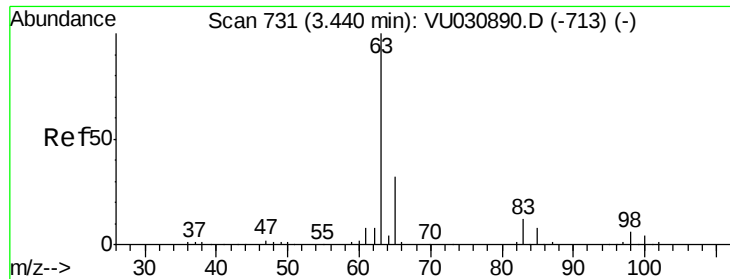
Ion Ratio Lower Upper

73 100

43 20.3 16.4 24.6

57 23.7 19.0 28.4

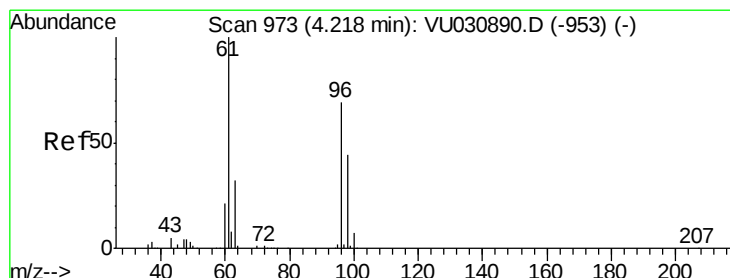
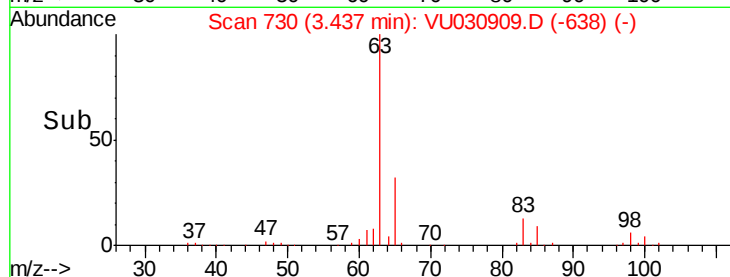
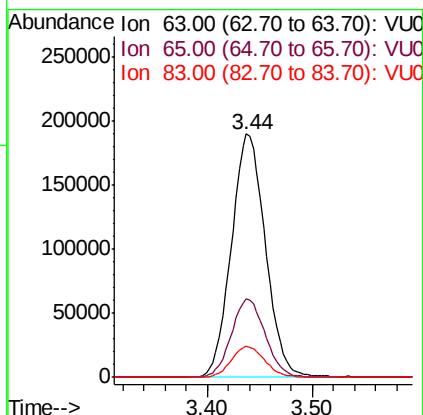
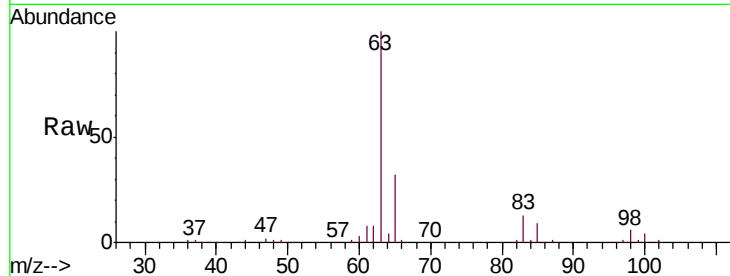




#19
 1,1-Dichloroethane
 Concen: 50.174 ug/L
 RT: 3.44 min Scan# 730
 Delta R.T. -0.00 min
 Lab File: VU030909.D
 Acq: 08 Apr 2019 16:34

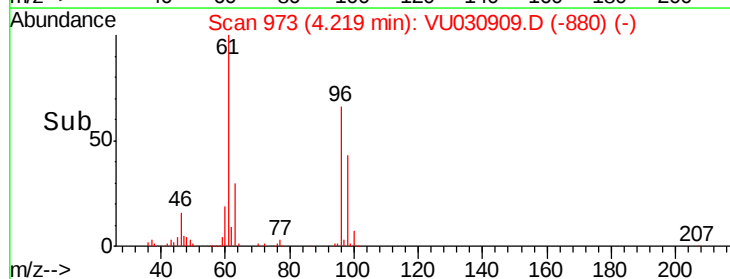
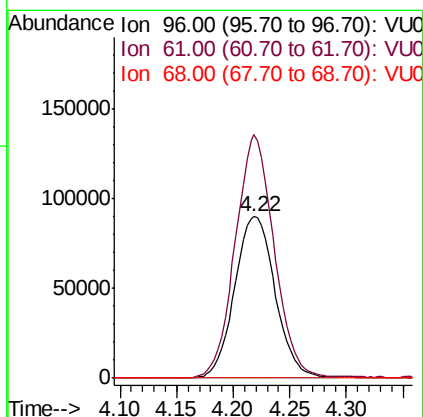
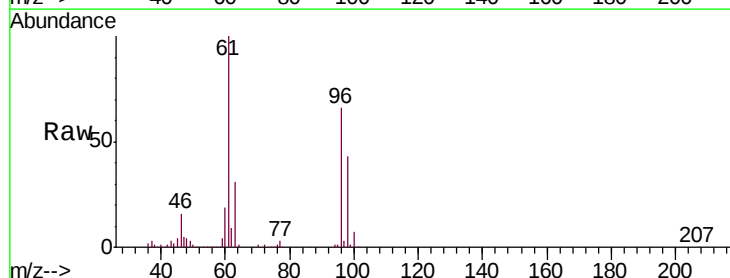
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

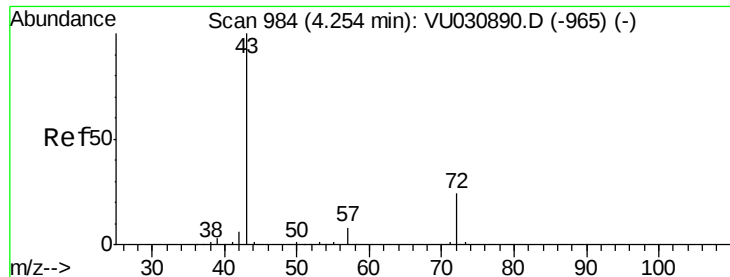
Tgt Ion: 63 Resp: 424229
 Ion Ratio Lower Upper
 63 100
 65 32.3 21.4 39.8
 83 12.8 8.5 15.7



#20
 cis-1,2-Dichloroethene
 Concen: 49.439 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. 0.00 min
 Lab File: VU030909.D
 Acq: 08 Apr 2019 16:34

Tgt Ion: 96 Resp: 223655
 Ion Ratio Lower Upper
 96 100
 61 150.6 102.9 191.1
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 110.402 ug/L

RT: 4.26 min Scan# 985

Delta R.T. 0.00 min

Lab File: VU030909.D

Acq: 08 Apr 2019 16:34

Instrument :

MSVOA_U

ClientSampleId :

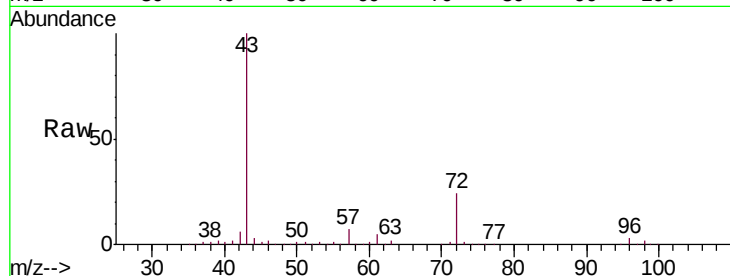
VSTD05057

Tgt Ion: 43 Resp: 523116

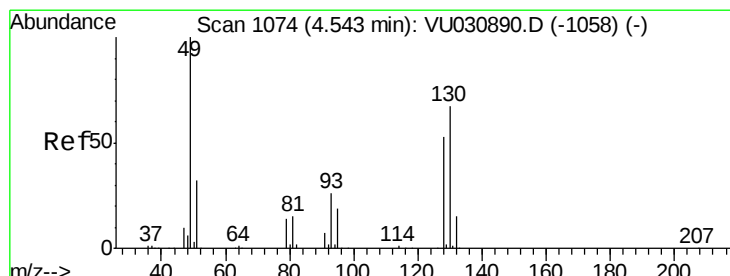
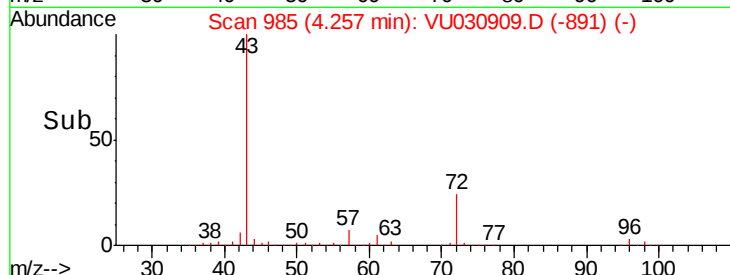
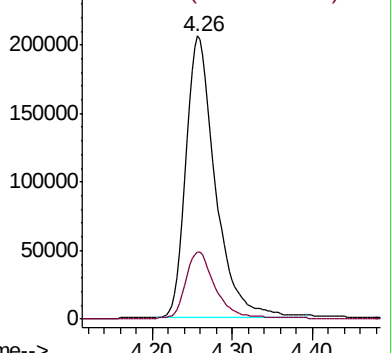
Ion Ratio Lower Upper

43 100

72 24.0 10.8 32.4



Abundance Ion 43.00 (42.70 to 43.70): VU030909.D (-985) (-)



#23

Bromochloromethane

Concen: 50.893 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VU030909.D

Acq: 08 Apr 2019 16:34

Tgt Ion: 128 Resp: 108845

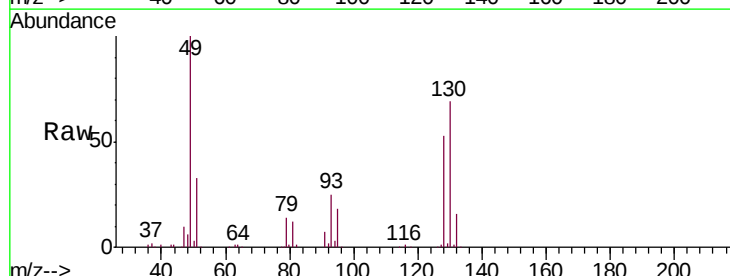
Ion Ratio Lower Upper

128 100

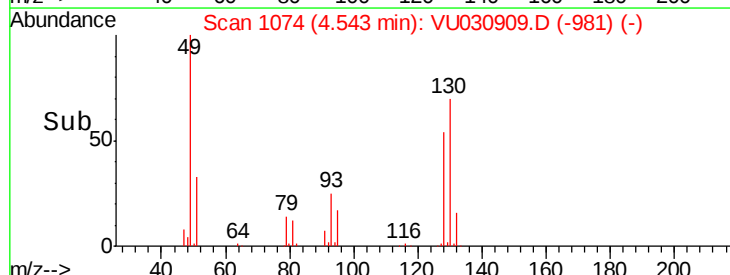
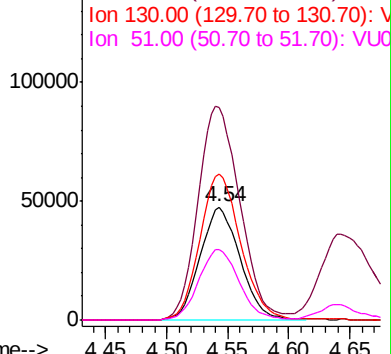
49 188.5 139.9 259.7

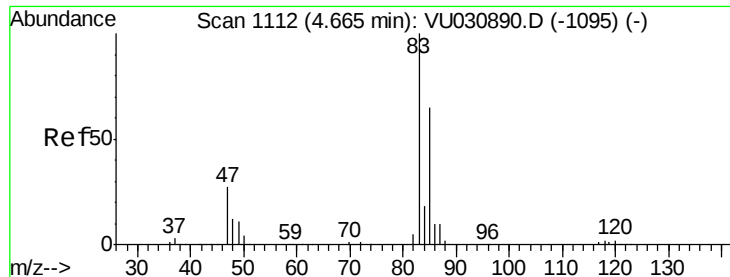
130 129.3 86.6 160.8

51 62.5 52.2 78.4



Abundance Ion 128.00 (127.70 to 128.70): VU030909.D (-1074) (-)





#25

Chloroform

Concen: 49.606 ug/L

RT: 4.67 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VU030909.D

Acq: 08 Apr 2019 16:34

Instrument :

MSVOA_U

ClientSampleId :

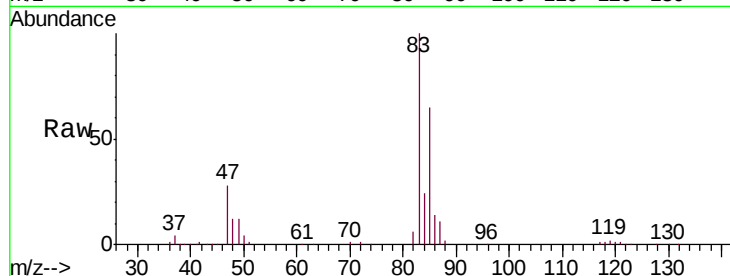
VSTD05057

Tgt Ion: 83 Resp: 421551

Ion Ratio Lower Upper

83 100

85 65.0 45.8 85.0



Abundance Ion 83.00 (82.70 to 83.70): VU030890.D (-1095) (-)

Ion 85.00 (84.70 to 85.70): VU030890.D (-1095) (-)

4.67

200000

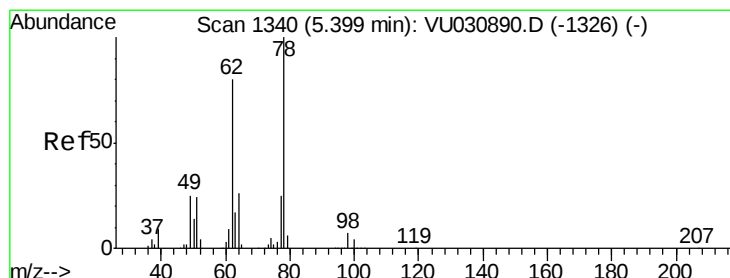
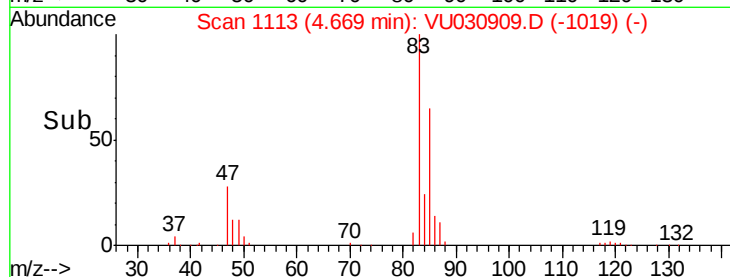
150000

100000

50000

0

Time-->



#27

1,2-Dichloroethane

Concen: 50.768 ug/L

RT: 5.40 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VU030909.D

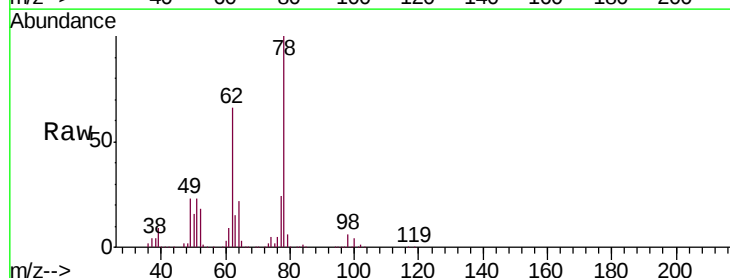
Acq: 08 Apr 2019 16:34

Tgt Ion: 62 Resp: 329277

Ion Ratio Lower Upper

62 100

98 8.5 7.2 10.8



Abundance Ion 62.00 (61.70 to 62.70): VU030890.D (-1326) (-)

Ion 98.00 (97.70 to 98.70): VU030890.D (-1326) (-)

5.40

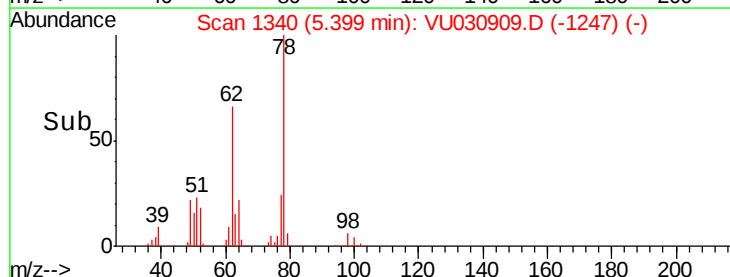
150000

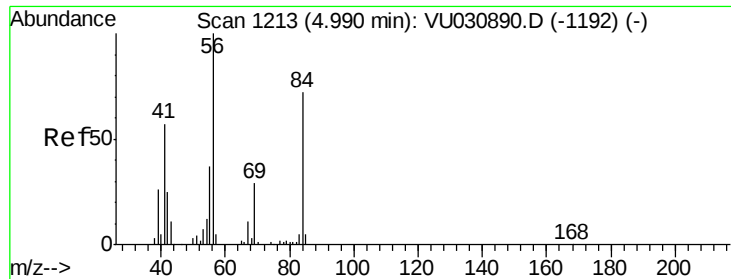
100000

50000

0

Time-->

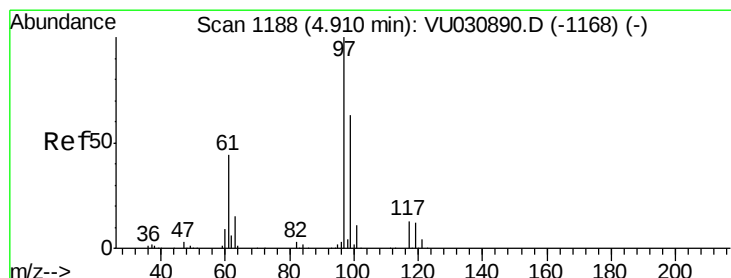
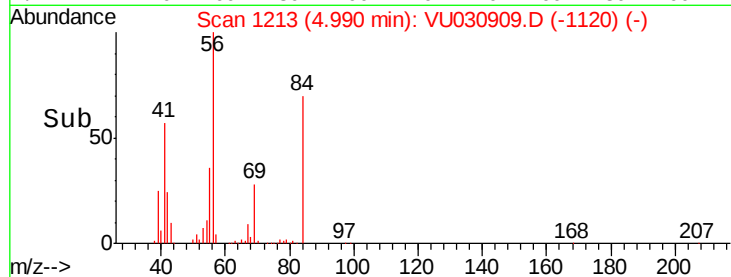
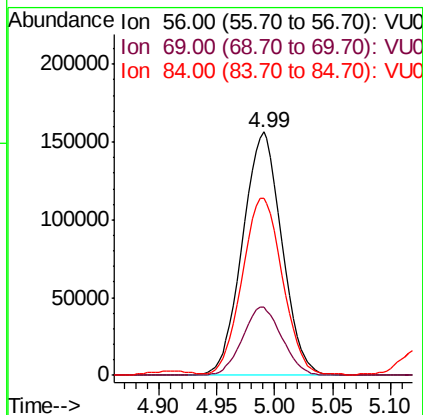
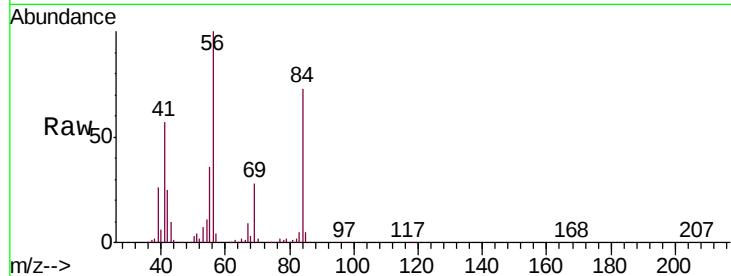




#29
Cyclohexane
Concen: 48.661 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. 0.00 min
Lab File: VU030909.D
Acq: 08 Apr 2019 16:34

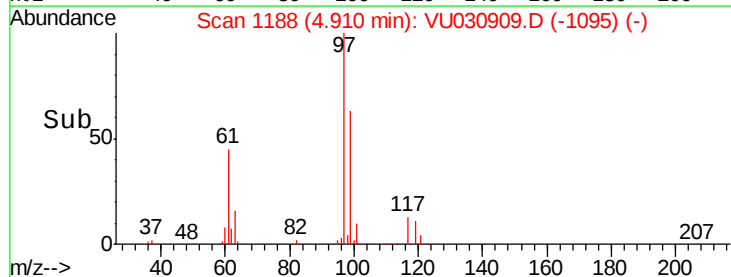
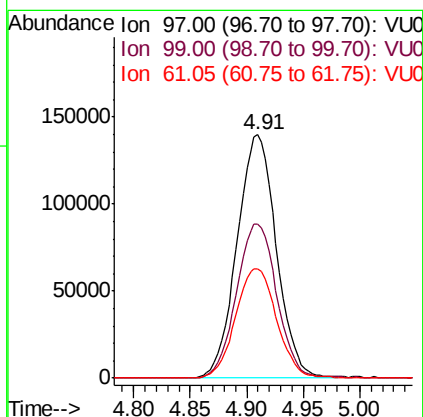
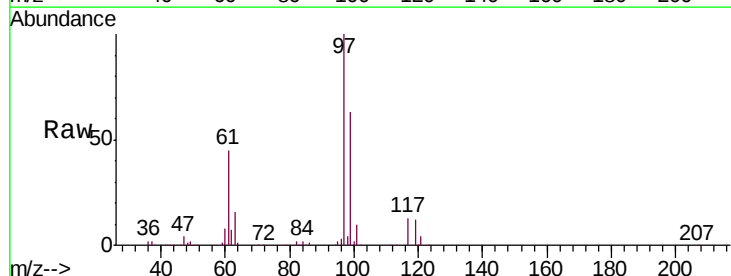
Instrument :
MSVOA_U
ClientSampleId :
VSTD05057

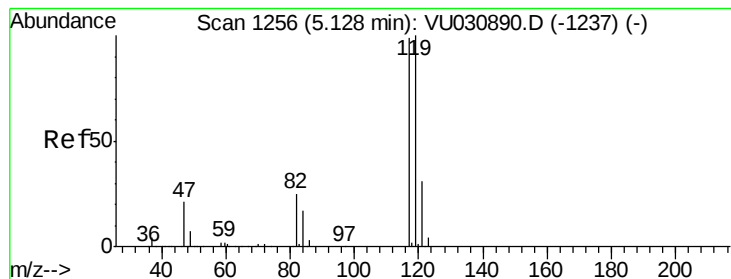
Tgt Ion: 56 Resp: 369908
Ion Ratio Lower Upper
56 100
69 28.2 22.0 33.0
84 73.4 58.2 87.2



#30
1,1,1-Trichloroethane
Concen: 52.080 ug/L
RT: 4.91 min Scan# 1188
Delta R.T. 0.00 min
Lab File: VU030909.D
Acq: 08 Apr 2019 16:34

Tgt Ion: 97 Resp: 338515
Ion Ratio Lower Upper
97 100
99 64.6 51.4 77.2
61 46.7 37.1 55.7





#31

Carbon tetrachloride

Concen: 51.080 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VU030909.D

Acq: 08 Apr 2019 16:34

Instrument :

MSVOA_U

ClientSampleId :

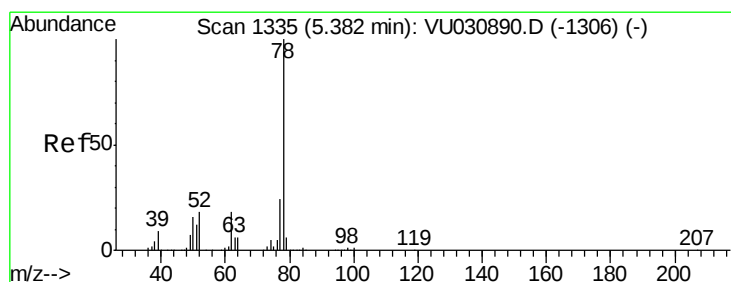
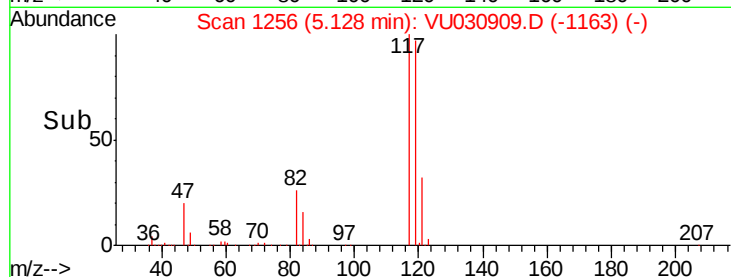
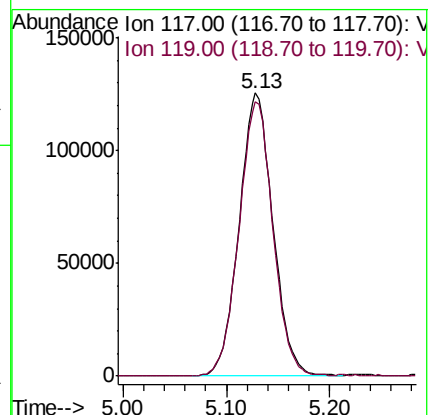
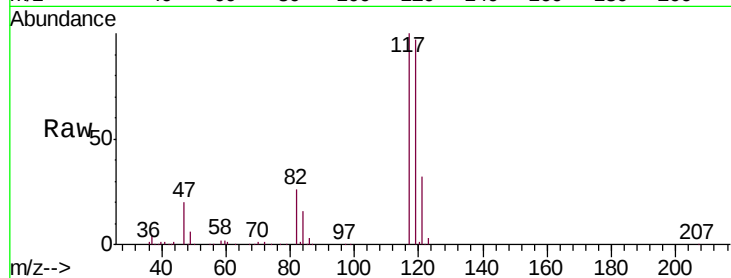
VSTD05057

Tgt Ion:117 Resp: 286110

Ion Ratio Lower Upper

117 100

119 97.2 76.2 114.2



#33

Benzene

Concen: 51.705 ug/L

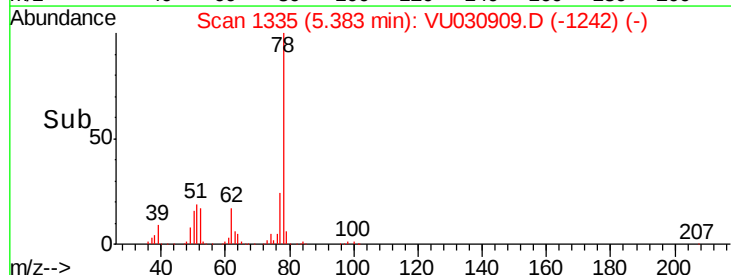
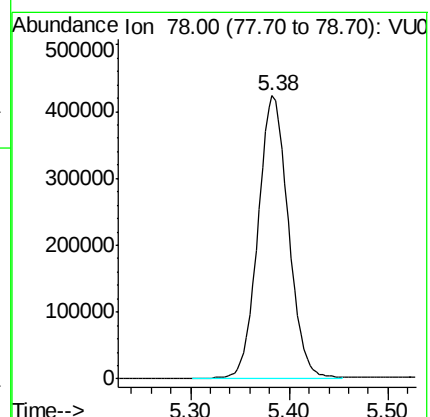
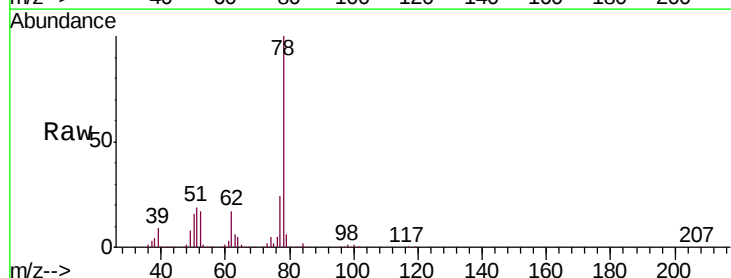
RT: 5.38 min Scan# 1335

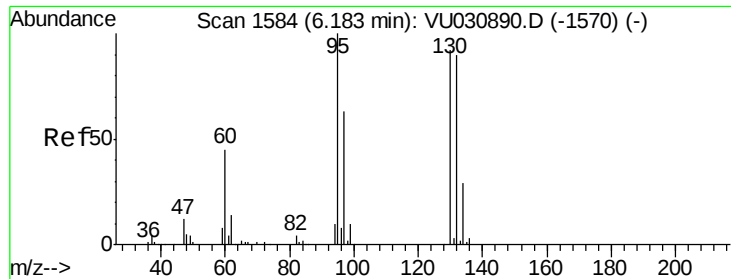
Delta R.T. 0.00 min

Lab File: VU030909.D

Acq: 08 Apr 2019 16:34

Tgt Ion: 78 Resp: 902434

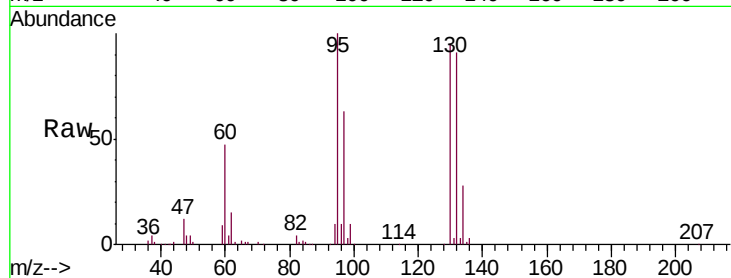




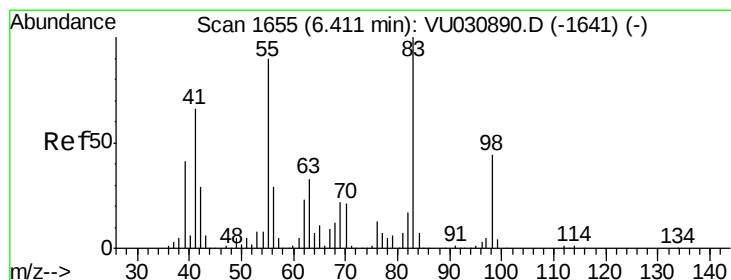
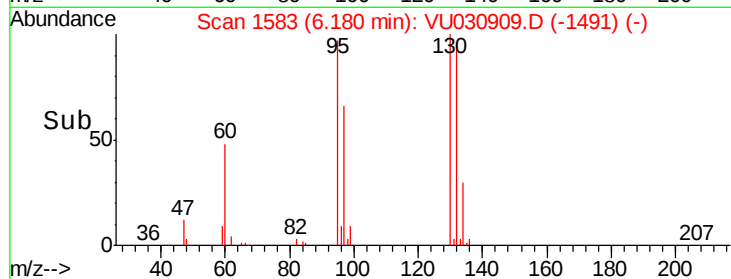
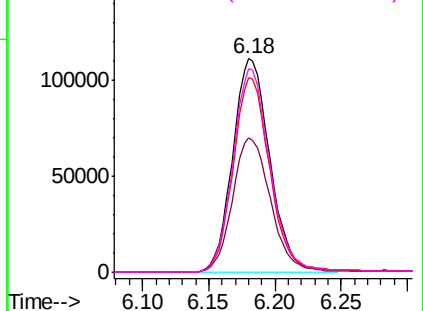
#34
 Trichloroethene
 Concen: 50.850 ug/L
 RT: 6.18 min Scan# 1583
 Delta R.T. -0.00 min
 Lab File: VU030909.D
 Acq: 08 Apr 2019 16:34

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

Tgt Ion: 95 Resp: 217677
 Ion Ratio Lower Upper
 95 100
 97 62.8 44.5 82.7
 132 91.2 61.5 114.1
 130 95.2 64.9 120.5

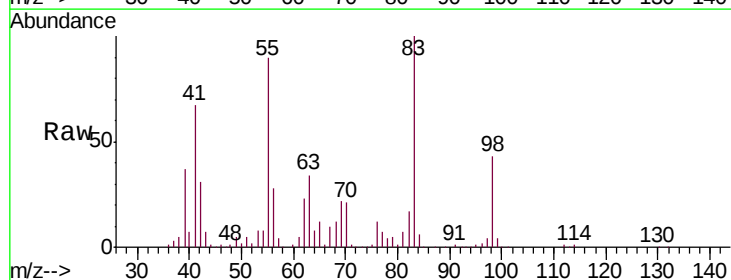


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

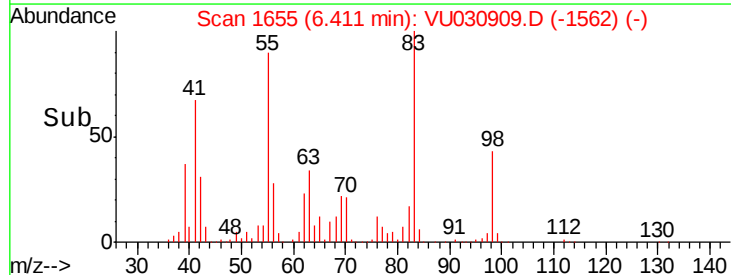
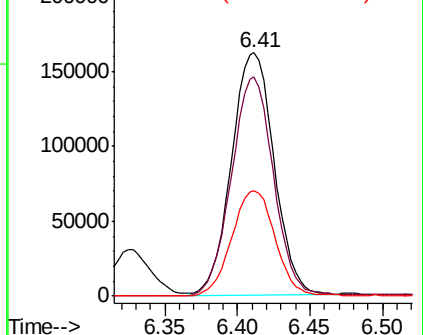


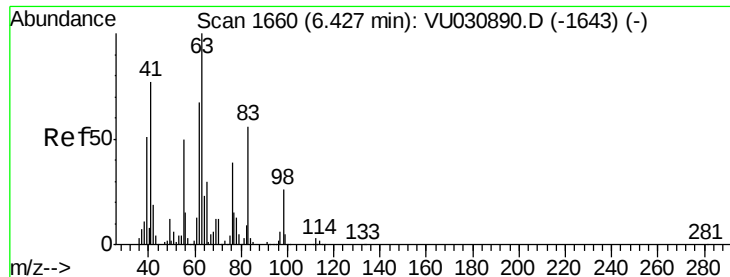
#35
 Methylcyclohexane
 Concen: 49.750 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU030909.D
 Acq: 08 Apr 2019 16:34

Tgt Ion: 83 Resp: 328667
 Ion Ratio Lower Upper
 83 100
 55 90.4 71.6 107.4
 98 44.4 35.4 53.0



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 55.00 (54.70 to 55.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0

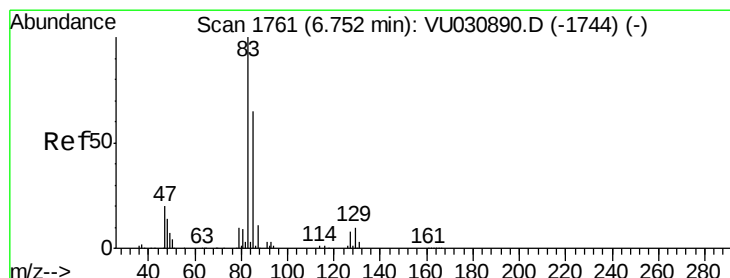
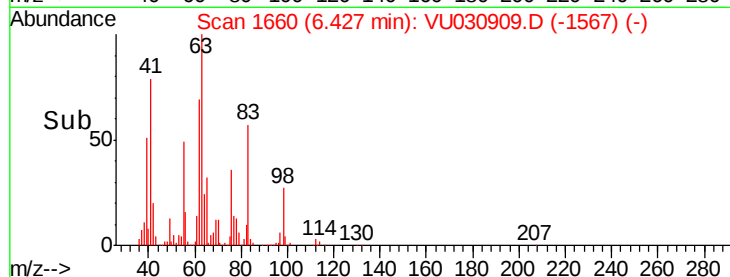
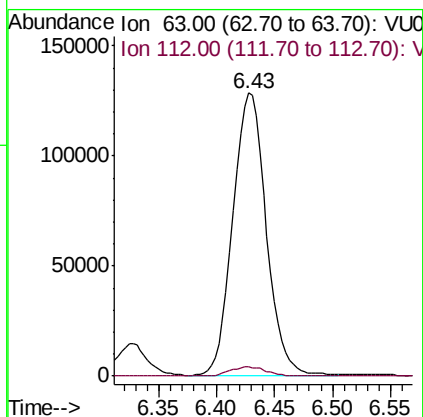
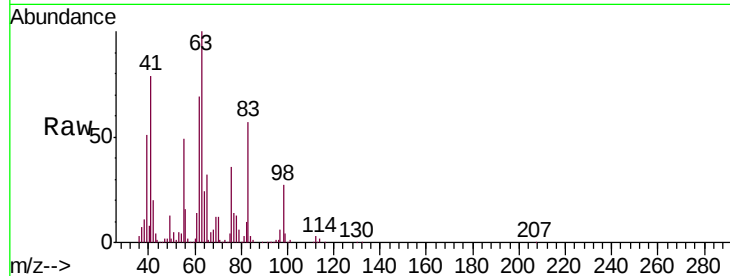




#37
 1,2-Dichloropropane
 Concen: 51.661 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU030909.D
 Acq: 08 Apr 2019 16:34

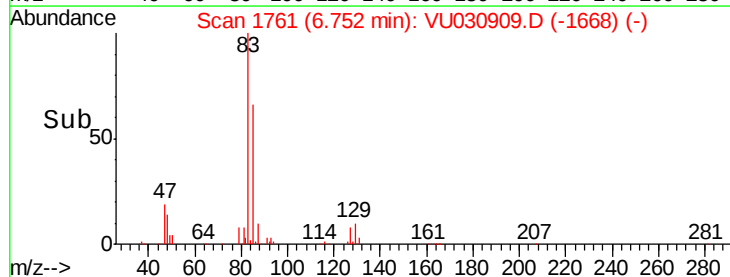
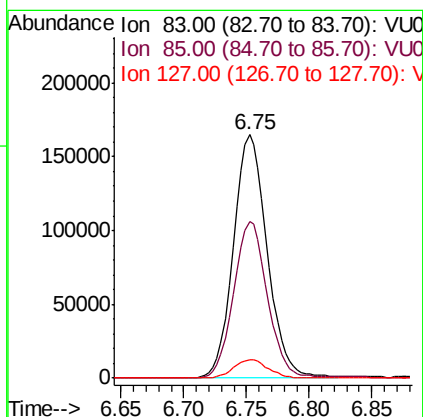
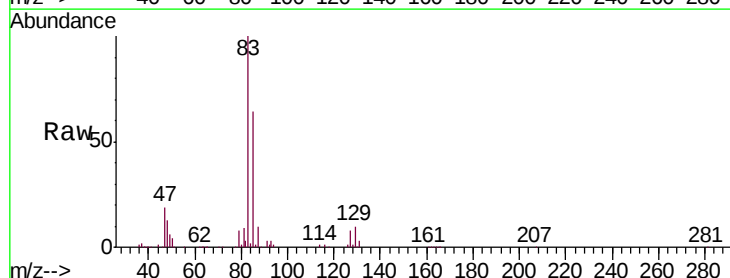
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05057

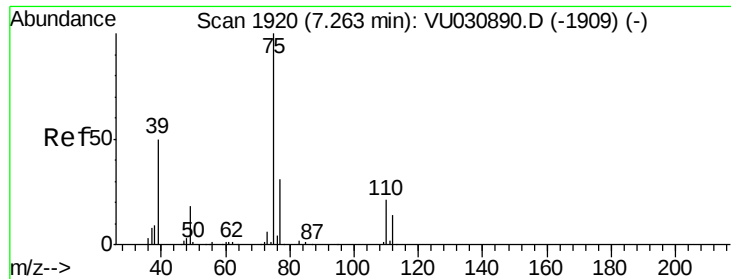
Tgt Ion: 63 Resp: 255318
 Ion Ratio Lower Upper
 63 100
 112 3.5 3.0 4.4



#38
 Bromodichloromethane
 Concen: 51.577 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. 0.00 min
 Lab File: VU030909.D
 Acq: 08 Apr 2019 16:34

Tgt Ion: 83 Resp: 307508
 Ion Ratio Lower Upper
 83 100
 85 64.4 46.5 86.3
 127 7.7 6.6 10.0

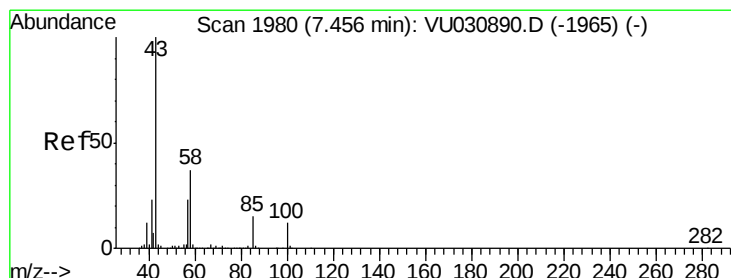
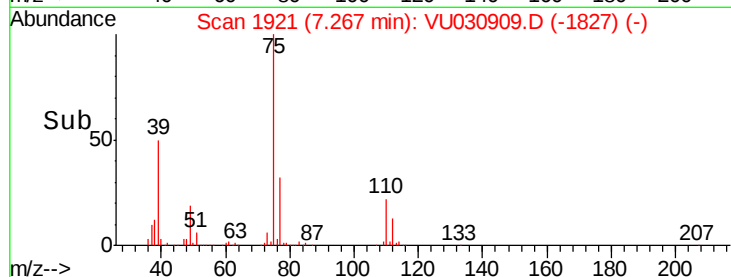
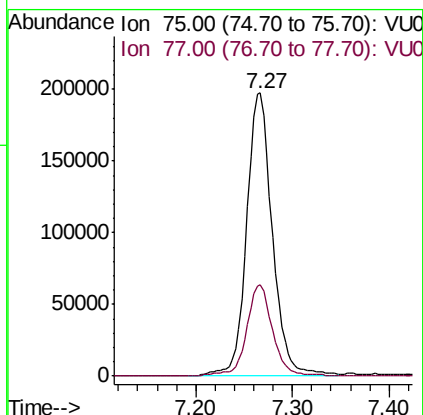
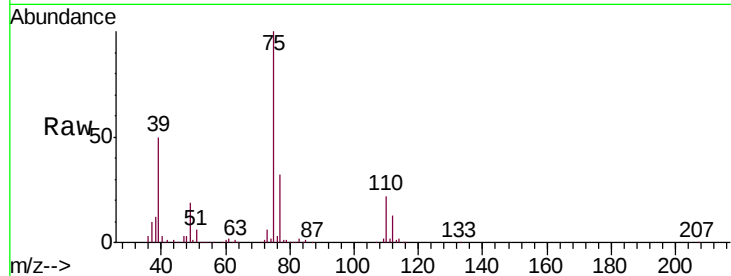




#39
 cis-1,3-Dichloropropene
 Concen: 52.090 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU030909.D
 Acq: 08 Apr 2019 16:34

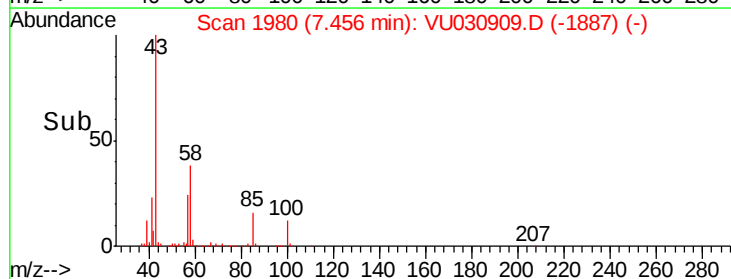
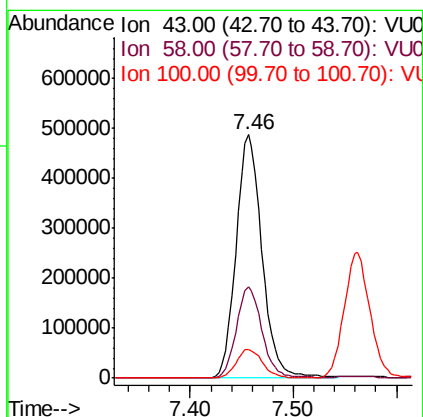
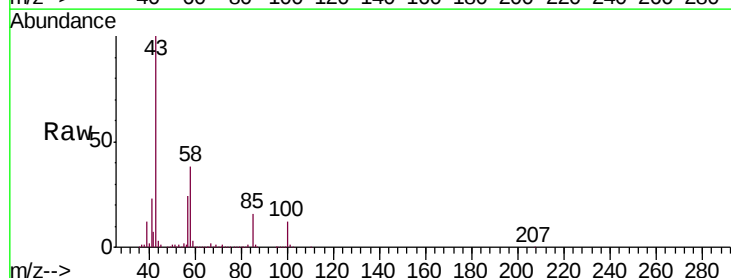
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

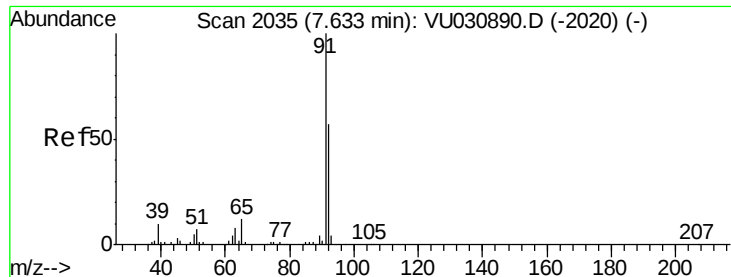
Tgt Ion: 75 Resp: 366426
 Ion Ratio Lower Upper
 75 100
 77 32.5 23.1 42.9



#40
 4-Methyl-2-pentanone
 Concen: 107.506 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VU030909.D
 Acq: 08 Apr 2019 16:34

Tgt Ion: 43 Resp: 854396
 Ion Ratio Lower Upper
 43 100
 58 37.2 29.7 44.5
 100 12.2 9.8 14.6





#42

Toluene

Concen: 52.278 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU030909.D

Acq: 08 Apr 2019 16:34

Instrument :

MSVOA_U

ClientSampleId :

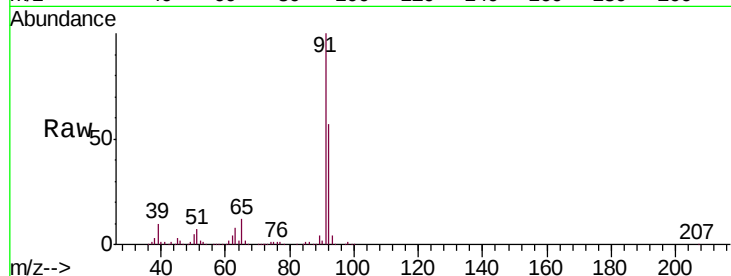
VSTD05057

Tgt Ion: 91 Resp: 931389

Ion Ratio Lower Upper

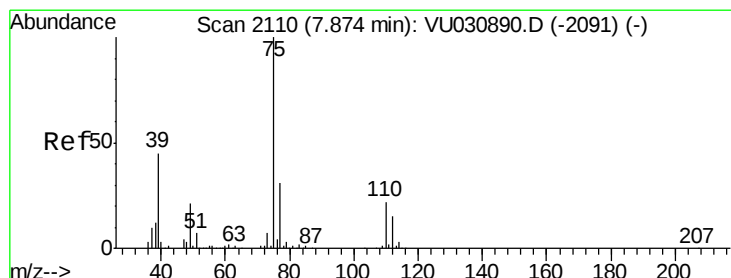
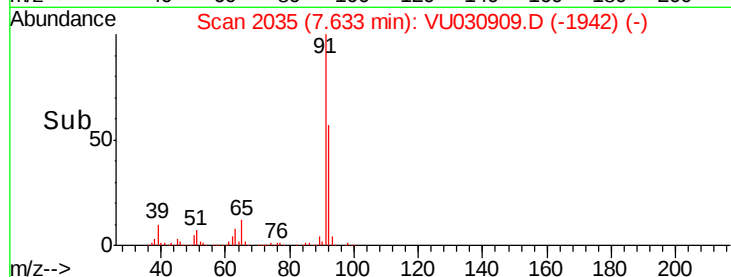
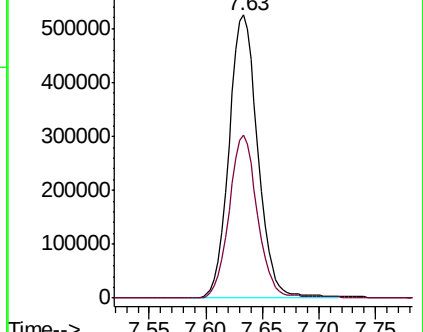
91 100

92 57.4 40.0 74.4



Abundance Ion 91.00 (90.70 to 91.70): VU030909.D (-1942) (-)

Ion 92.00 (91.70 to 92.70): VU030909.D (-1942) (-)



#44

trans-1,3-Dichloropropene

Concen: 52.990 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU030909.D

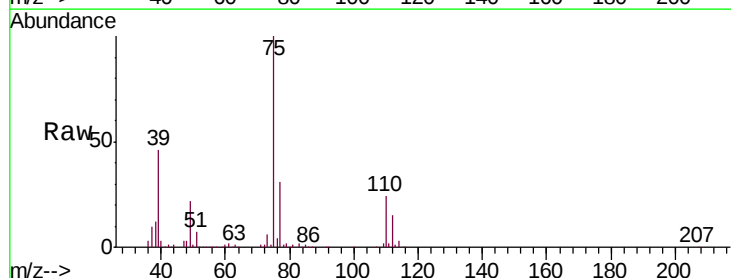
Acq: 08 Apr 2019 16:34

Tgt Ion: 75 Resp: 328498

Ion Ratio Lower Upper

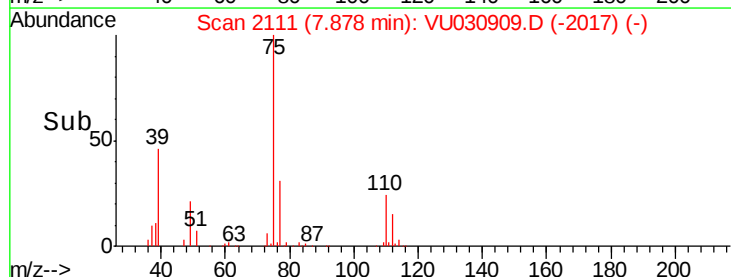
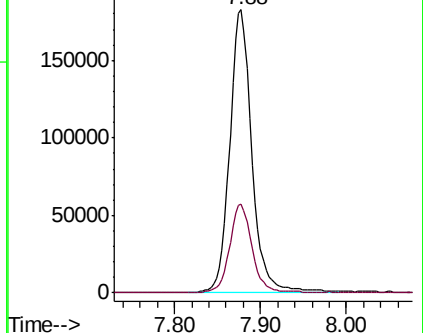
75 100

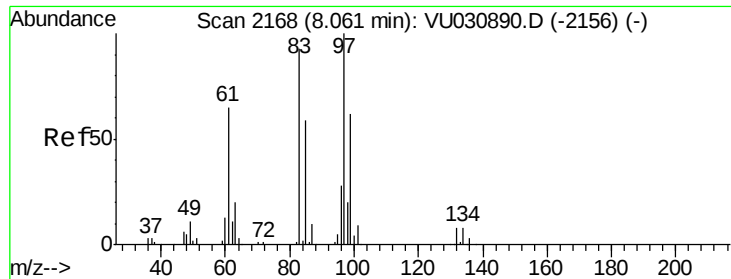
77 31.3 21.6 40.0



Abundance Ion 75.00 (74.70 to 75.70): VU030909.D (-217) (-)

Ion 77.00 (76.70 to 77.70): VU030909.D (-217) (-)

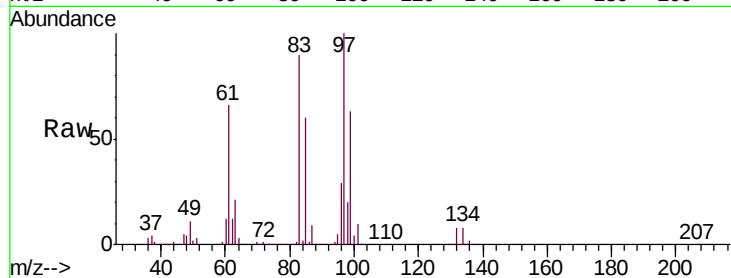




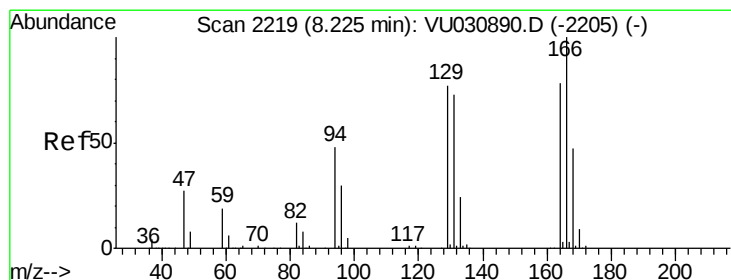
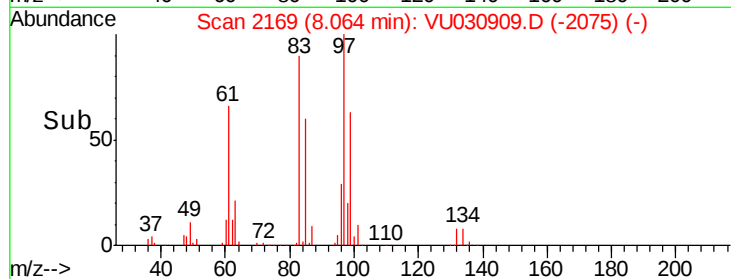
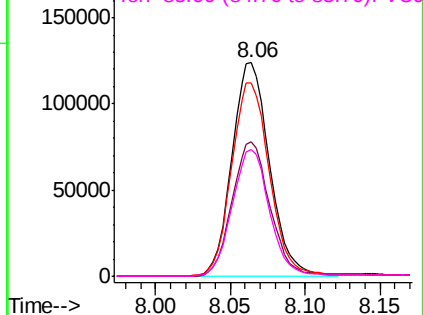
#45
 1,1,2-Trichloroethane
 Concen: 51.825 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU030909.D
 Acq: 08 Apr 2019 16:34

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

Tgt Ion:	97	Resp:	217224
Ion	Ratio	Lower	Upper
97	100		
99	63.2	44.0	81.8
83	90.4	65.3	121.3
85	59.6	42.5	78.9

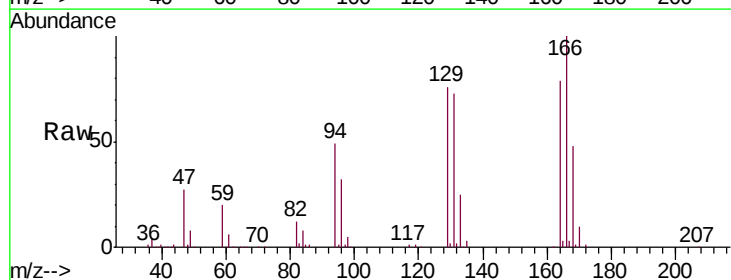


Abundance Ion 97.00 (96.70 to 97.70): VU030909.D (-2168) (-)

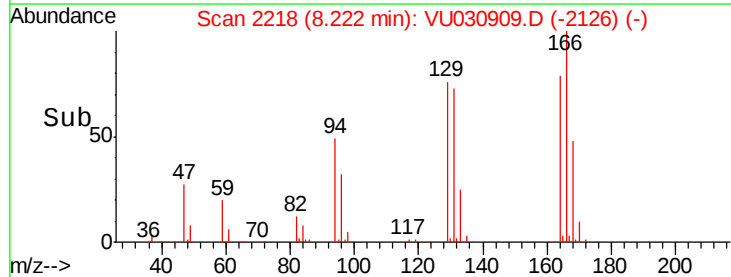
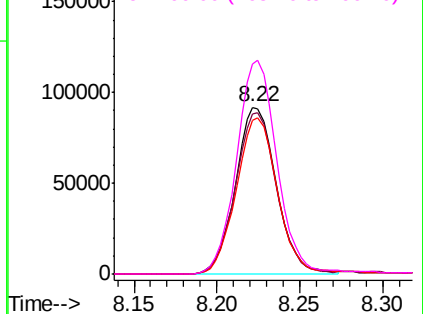


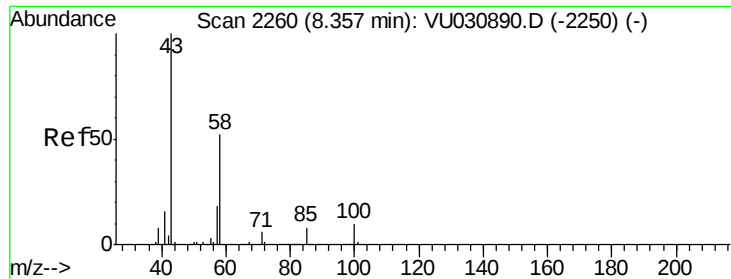
#46
 Tetrachloroethene
 Concen: 50.578 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. -0.00 min
 Lab File: VU030909.D
 Acq: 08 Apr 2019 16:34

Tgt Ion:	164	Resp:	157411
Ion	Ratio	Lower	Upper
164	100		
129	96.0	67.4	125.2
131	92.0	65.9	122.5
166	126.2	88.6	164.6



Abundance Ion 164.00 (163.70 to 164.70): VU030909.D (-2219) (-)

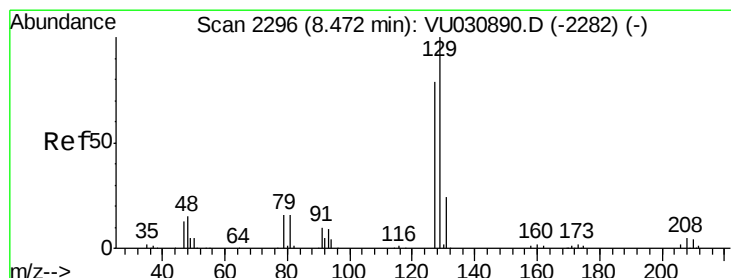
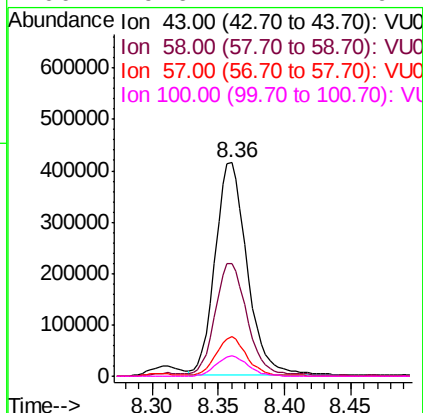
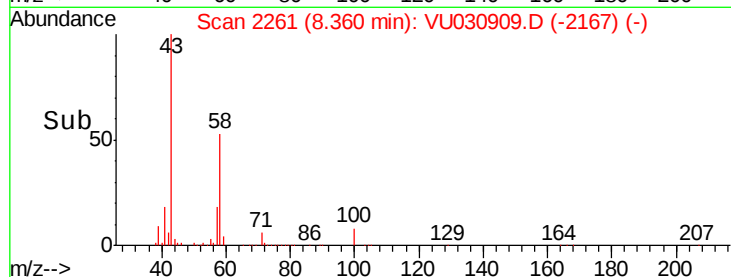
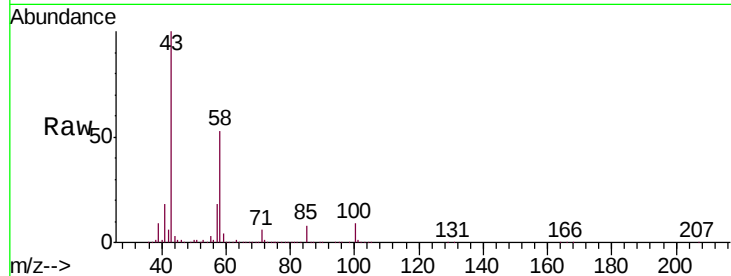




#48
2-Hexanone
Concen: 111.426 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. 0.00 min
Lab File: VU030909.D
Acq: 08 Apr 2019 16:34

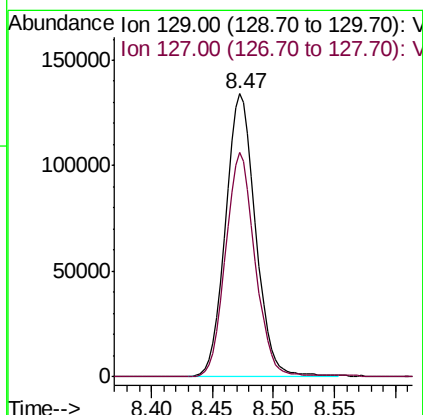
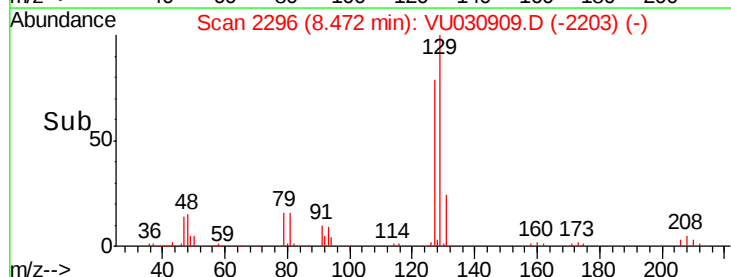
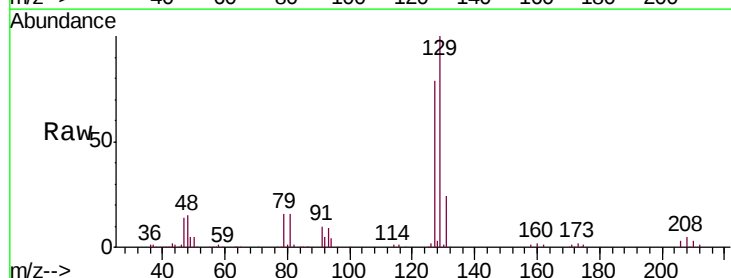
Instrument :
MSVOA_U
ClientSampleId :
VSTD05057

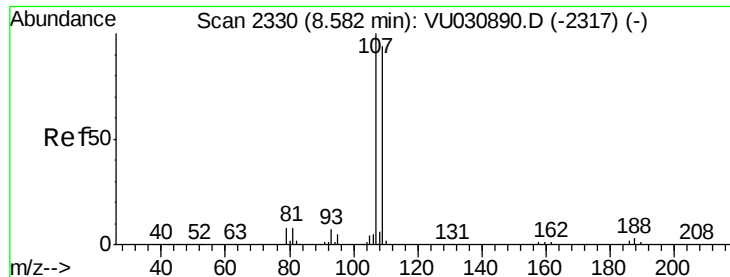
Tgt Ion: 43 Resp: 690895
Ion Ratio Lower Upper
43 100
58 53.6 41.9 62.9
57 17.4 14.3 21.5
100 9.6 7.1 10.7



#49
Dibromochloromethane
Concen: 52.074 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU030909.D
Acq: 08 Apr 2019 16:34

Tgt Ion: 129 Resp: 231602
Ion Ratio Lower Upper
129 100
127 79.3 54.5 101.3

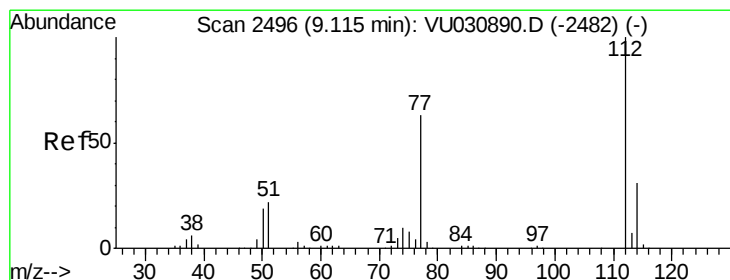
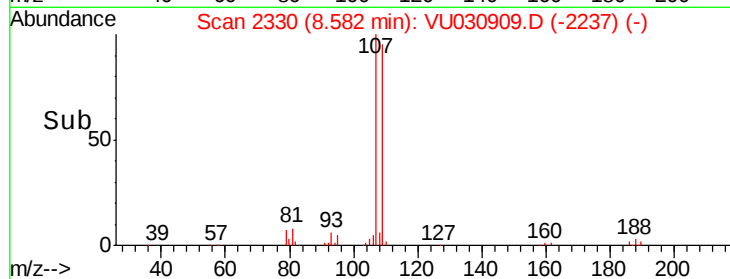
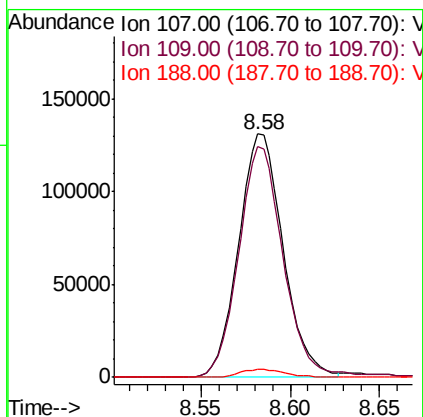
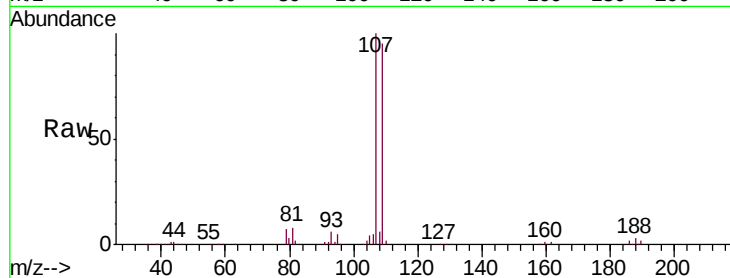




#50
 1,2-Dibromoethane
 Concen: 50.347 ug/L
 RT: 8.58 min Scan# 2330
 Delta R.T. 0.00 min
 Lab File: VU030909.D
 Acq: 08 Apr 2019 16:34

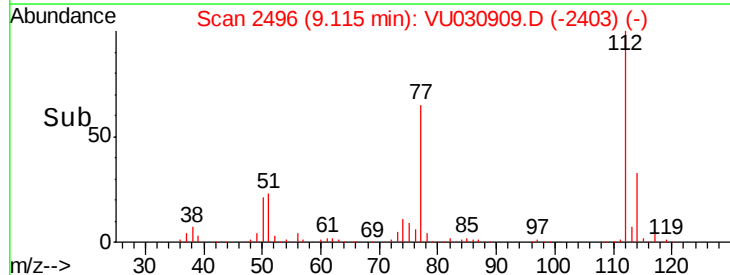
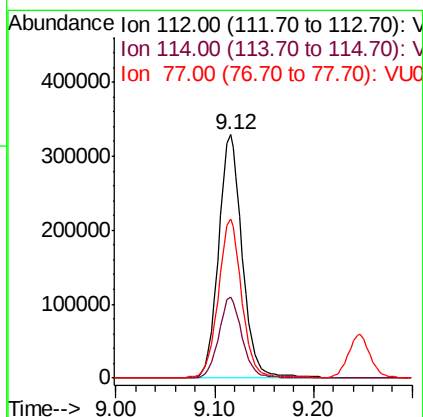
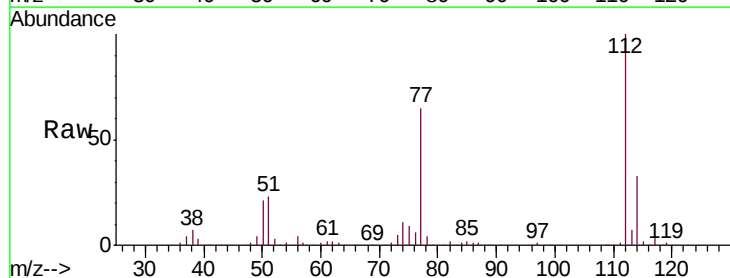
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

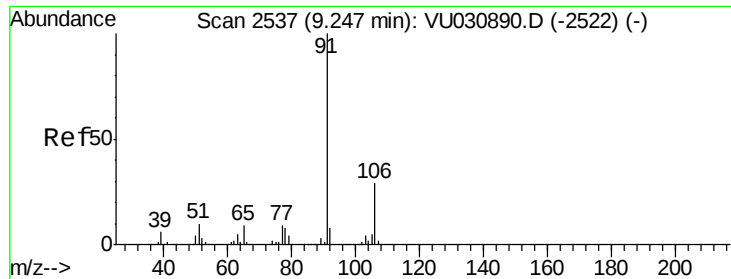
Tgt Ion:107 Resp: 228349
 Ion Ratio Lower Upper
 107 100
 109 94.9 66.4 123.2
 188 3.2 2.6 4.0



#51
 Chlorobenzene
 Concen: 50.725 ug/L
 RT: 9.12 min Scan# 2496
 Delta R.T. 0.00 min
 Lab File: VU030909.D
 Acq: 08 Apr 2019 16:34

Tgt Ion:112 Resp: 554272
 Ion Ratio Lower Upper
 112 100
 114 33.2 22.2 41.2
 77 65.3 51.7 77.5





#52

Ethylbenzene

Concen: 51.642 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU030909.D

Acq: 08 Apr 2019 16:34

Instrument :

MSVOA_U

ClientSampleId :

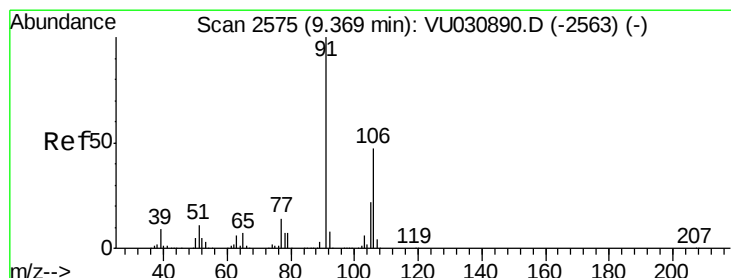
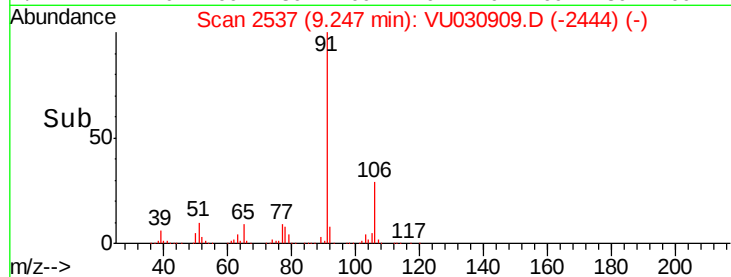
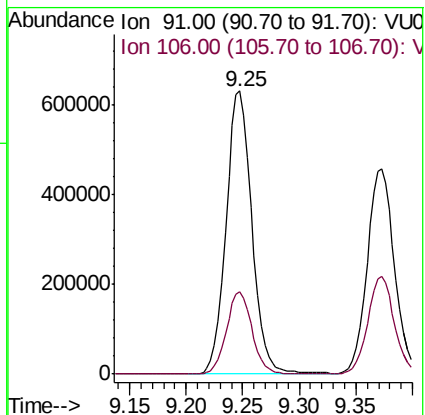
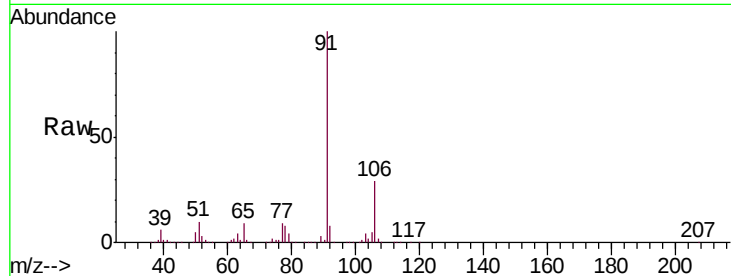
VSTD05057

Tgt Ion: 91 Resp: 1002887

Ion Ratio Lower Upper

91 100

106 28.9 20.4 37.8



#53

m,p-Xylene

Concen: 52.230 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU030909.D

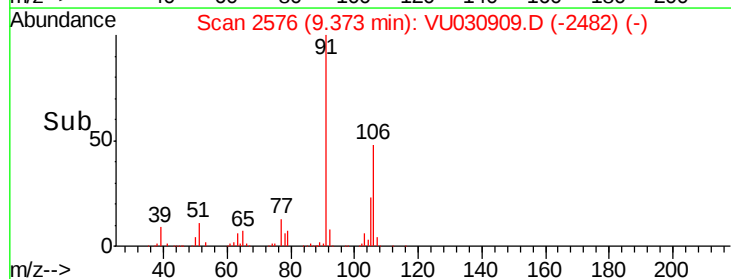
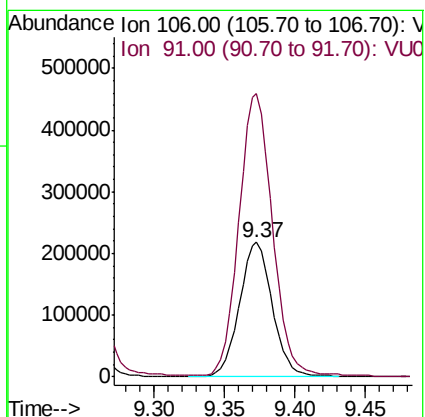
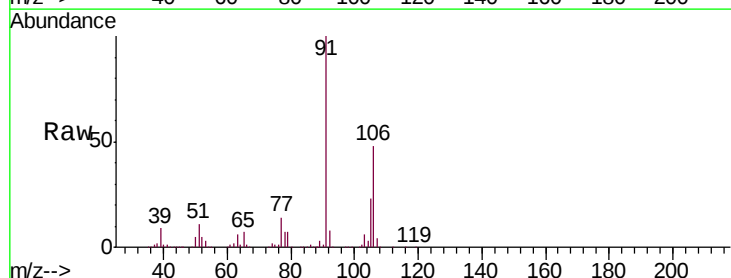
Acq: 08 Apr 2019 16:34

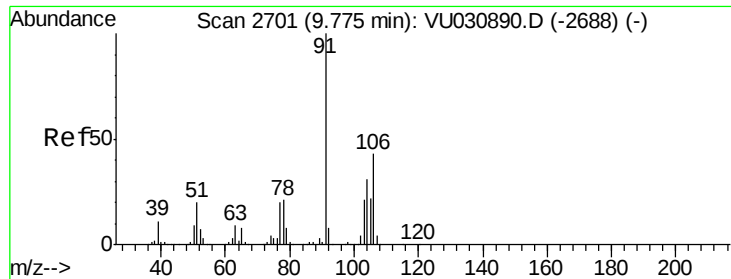
Tgt Ion: 106 Resp: 353752

Ion Ratio Lower Upper

106 100

91 210.4 148.0 274.8





#54

o-xylene

Concen: 52.198 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU030909.D

Acq: 08 Apr 2019 16:34

Instrument :

MSVOA_U

ClientSampleId :

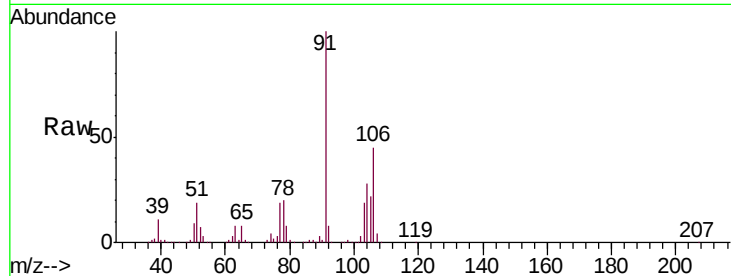
VSTD05057

Tgt Ion:106 Resp: 351662

Ion Ratio Lower Upper

106 100

91 221.0 156.7 290.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

600000

500000

400000

300000

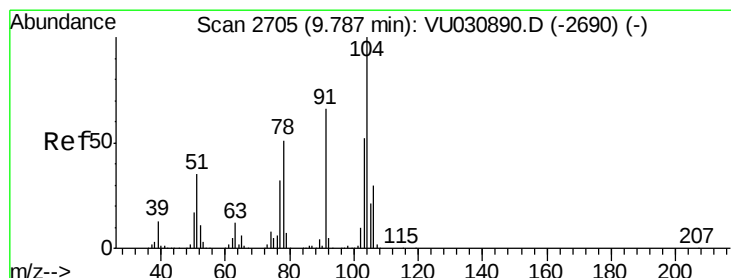
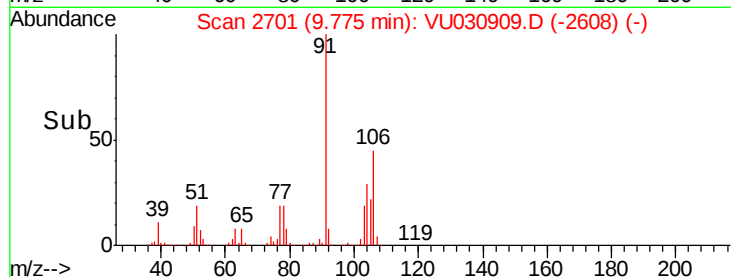
200000

100000

0

9.70 9.75 9.80 9.85

Time-->



#55

Styrene

Concen: 53.922 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU030909.D

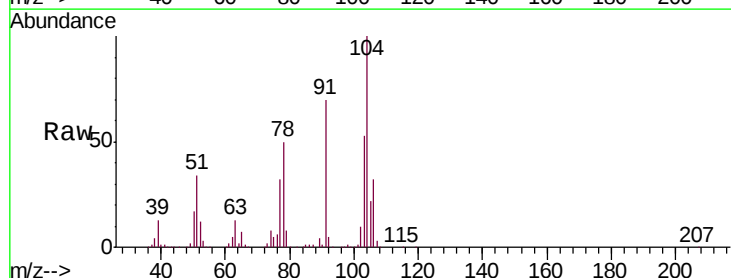
Acq: 08 Apr 2019 16:34

Tgt Ion:104 Resp: 623108

Ion Ratio Lower Upper

104 100

78 49.8 35.1 65.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0

400000

300000

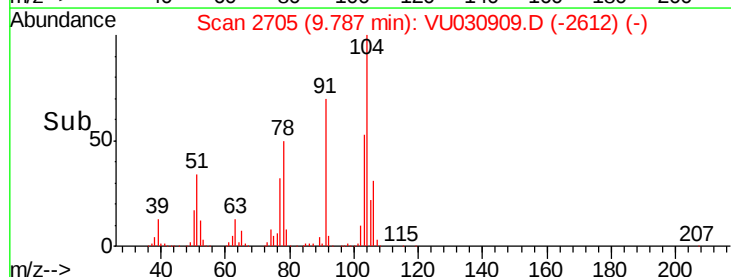
200000

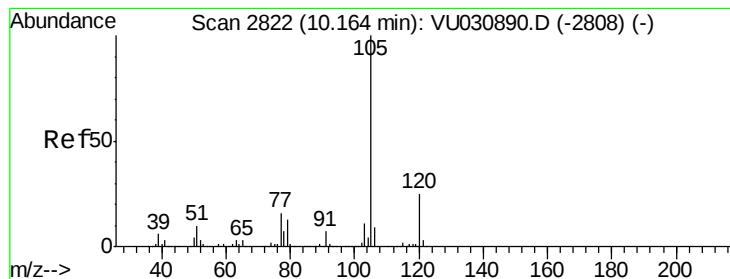
100000

0

9.70 9.75 9.80 9.85 9.90

Time-->





#56

Isopropylbenzene

Concen: 52.461 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU030909.D

Acq: 08 Apr 2019 16:34

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

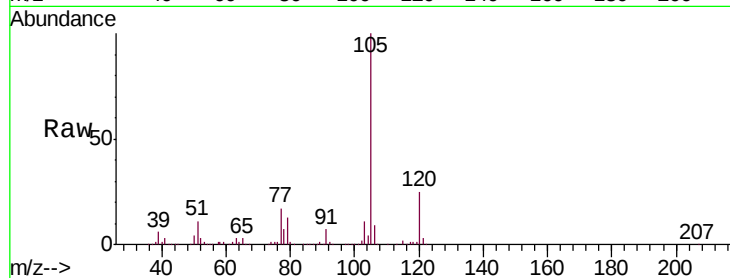
Tgt Ion: 105 Resp: 930539

Ion Ratio Lower Upper

105 100

120 25.0 20.4 30.6

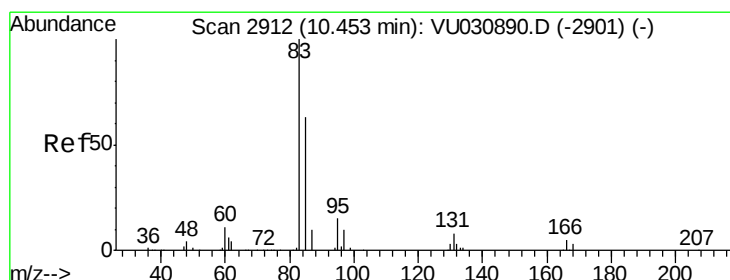
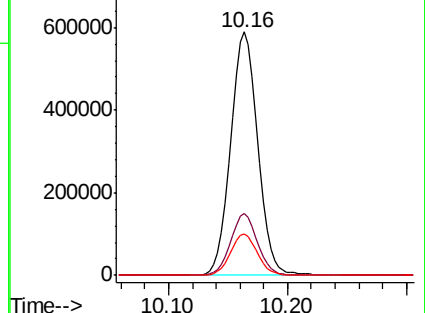
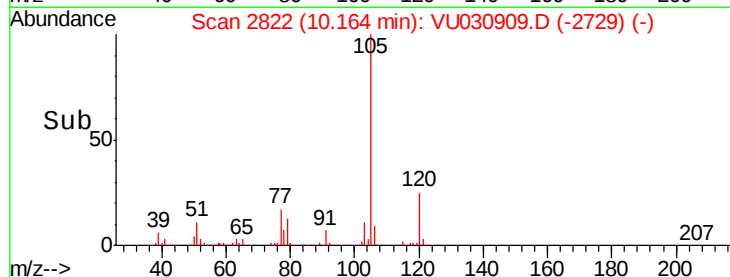
77 16.9 13.4 20.2



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: 51.805 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU030909.D

Acq: 08 Apr 2019 16:34

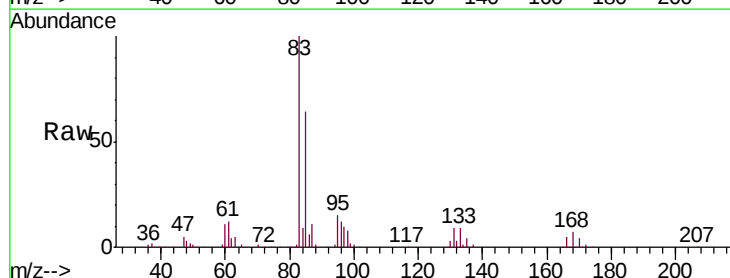
Tgt Ion: 83 Resp: 392753

Ion Ratio Lower Upper

83 100

85 63.7 45.3 84.1

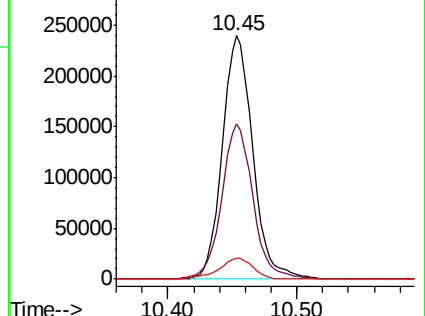
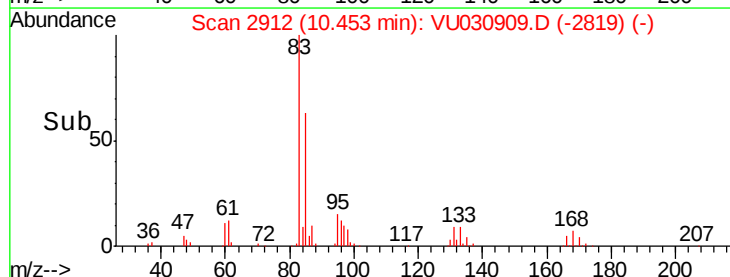
131 8.6 6.7 10.1

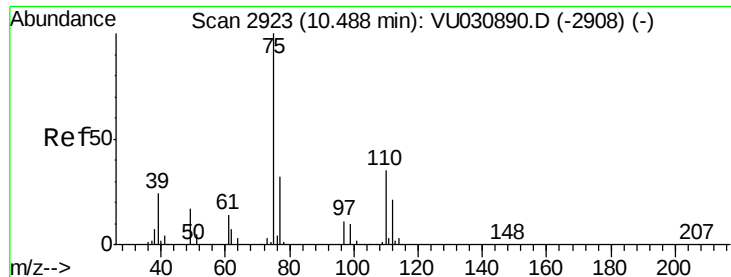


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 54.040 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. 0.00 min

Lab File: VU030909.D

Acq: 08 Apr 2019 16:34

Instrument :

MSVOA_U

ClientSampleId :

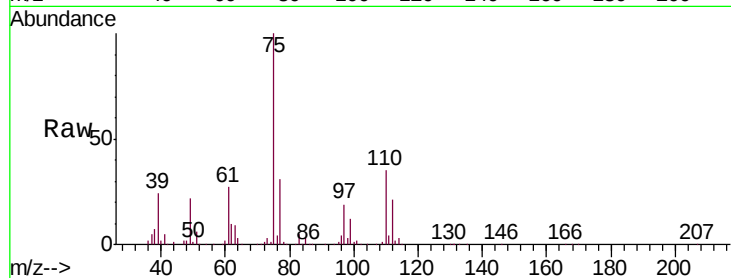
VSTD05057

Tgt Ion: 75 Resp: 319865

Ion Ratio Lower Upper

75 100

77 31.4 26.1 39.1



Abundance Ion 75.00 (74.70 to 75.70): VU030890.D (-2908) (-)

Ion 77.00 (76.70 to 77.70): VU030890.D (-2908) (-)

10.49

200000

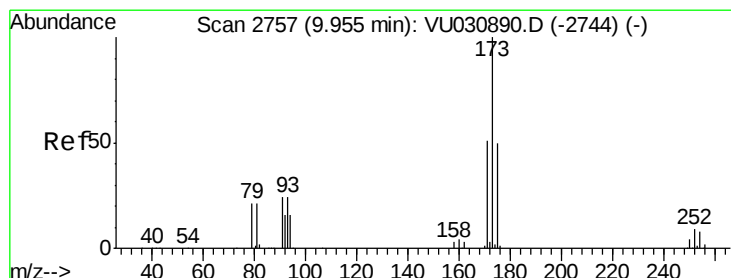
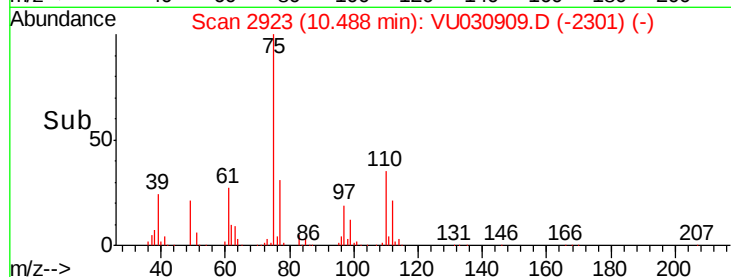
150000

100000

50000

0

Time--> 10.40 10.50



#61

Bromoform

Concen: 50.231 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU030909.D

Acq: 08 Apr 2019 16:34

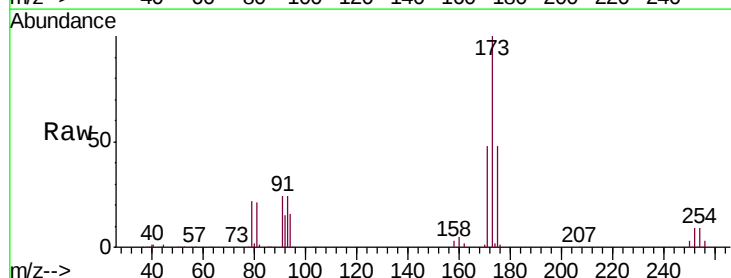
Tgt Ion: 173 Resp: 169373

Ion Ratio Lower Upper

173 100

175 48.4 39.1 58.7

254 8.4 7.3 10.9



Abundance Ion 173.00 (172.70 to 173.70): VU030890.D (-2744) (-)

Ion 175.00 (174.70 to 175.70): VU030890.D (-2744) (-)

Ion 254.00 (253.70 to 254.70): VU030890.D (-2744) (-)

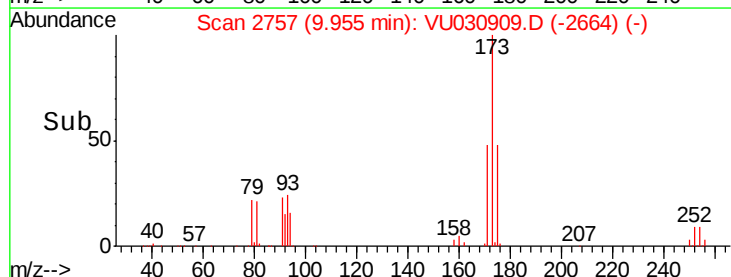
9.95

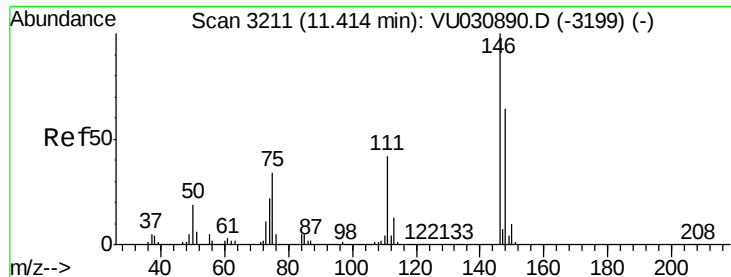
100000

50000

0

Time--> 9.90 10.00





#62

1,3-Dichlorobenzene

Concen: 48.612 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU030909.D

Acq: 08 Apr 2019 16:34

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

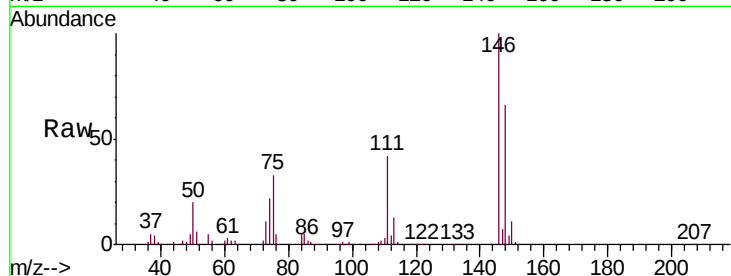
Tgt Ion:146 Resp: 392158

Ion Ratio Lower Upper

146 100

111 42.4 30.9 57.5

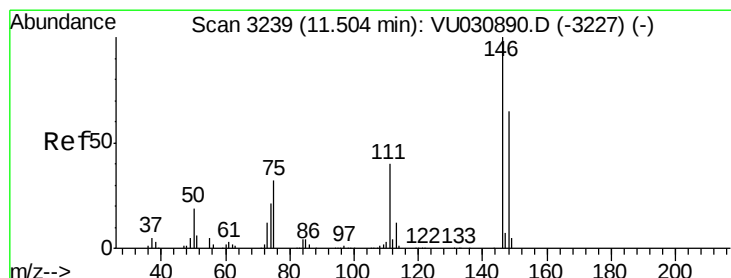
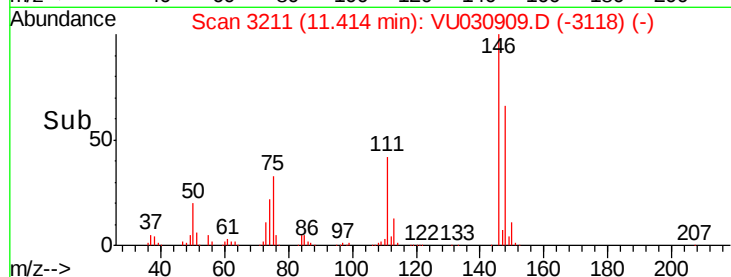
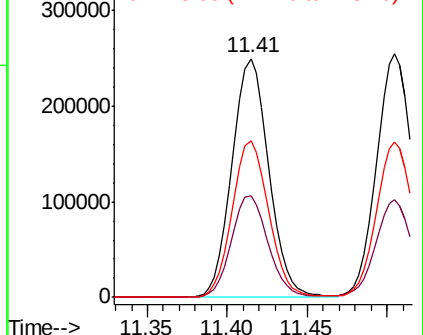
148 65.6 44.7 82.9



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: 49.433 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU030909.D

Acq: 08 Apr 2019 16:34

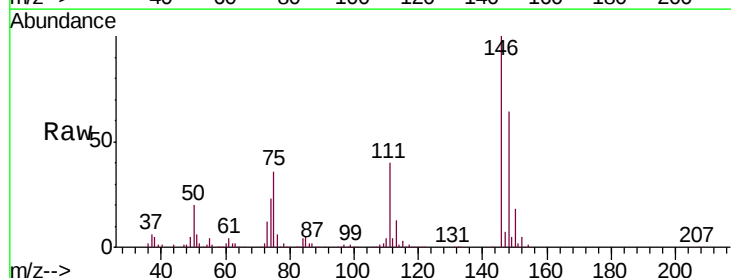
Tgt Ion:146 Resp: 405632

Ion Ratio Lower Upper

146 100

111 39.9 27.7 51.5

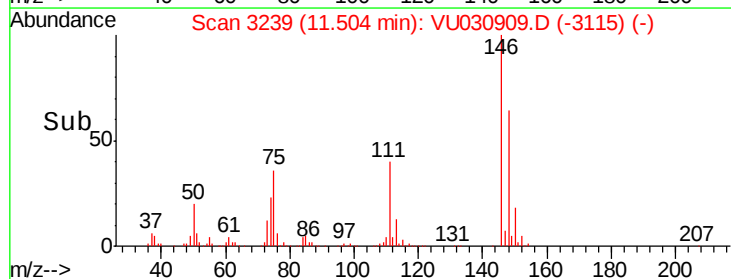
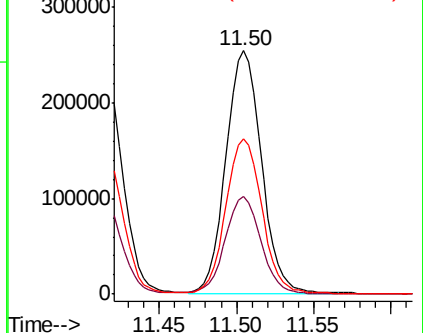
148 64.0 45.4 84.4

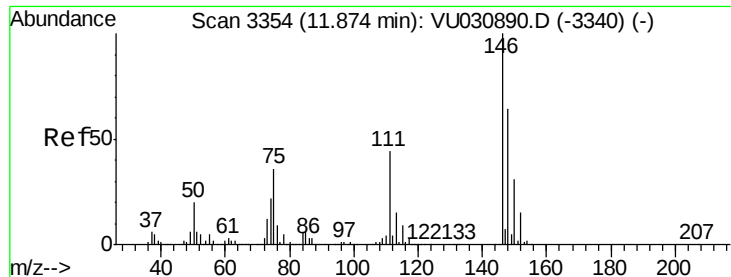


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

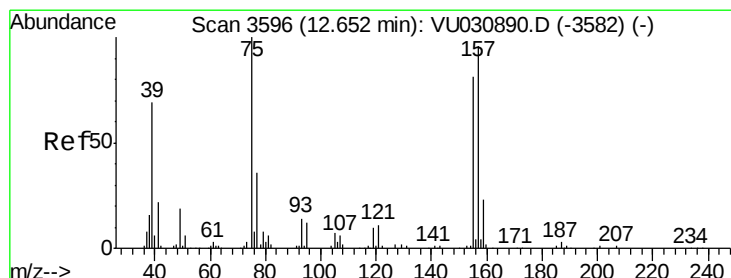
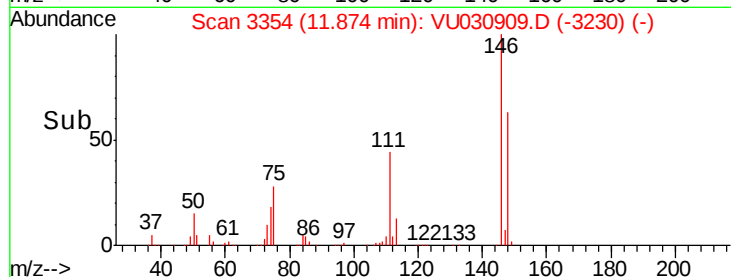
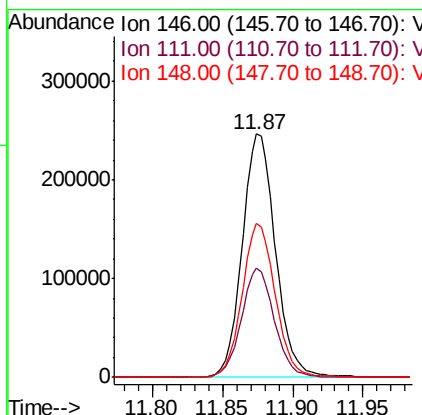
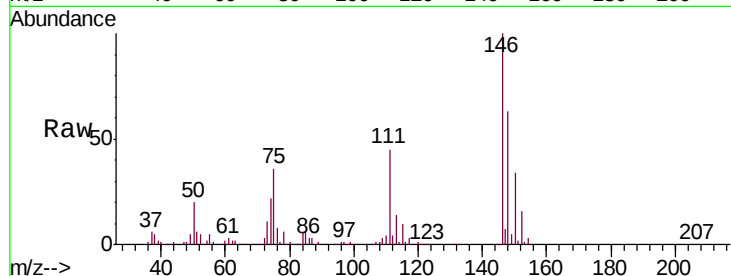




#65
 1,2-Dichlorobenzene
 Concen: 50.237 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU030909.D
 Acq: 08 Apr 2019 16:34

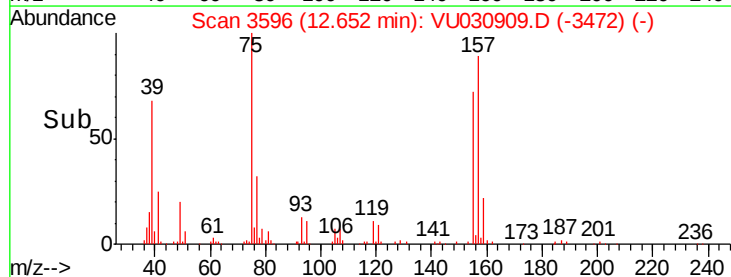
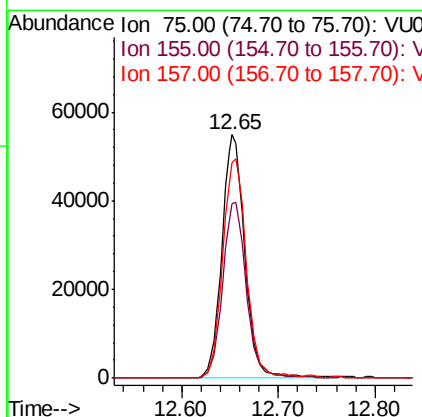
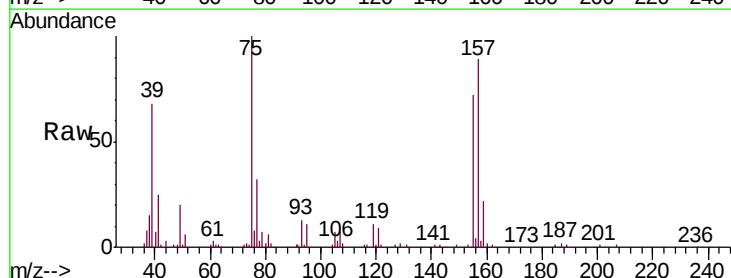
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

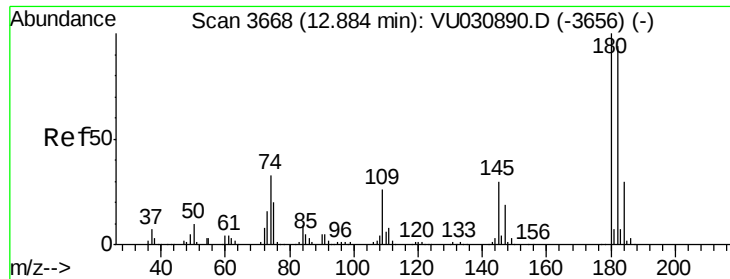
Tgt Ion:146 Resp: 406511
 Ion Ratio Lower Upper
 146 100
 111 44.9 34.9 52.3
 148 63.0 50.4 75.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 52.421 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU030909.D
 Acq: 08 Apr 2019 16:34

Tgt Ion: 75 Resp: 90175
 Ion Ratio Lower Upper
 75 100
 155 71.9 64.1 96.1
 157 88.6 80.6 120.8

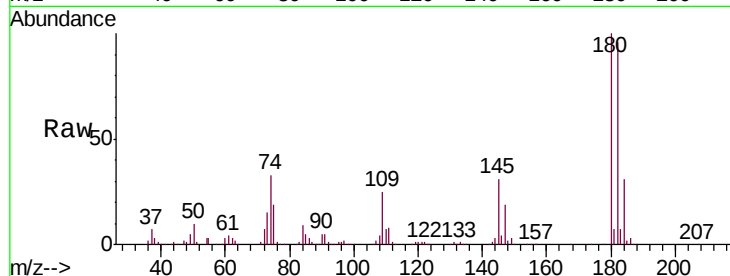




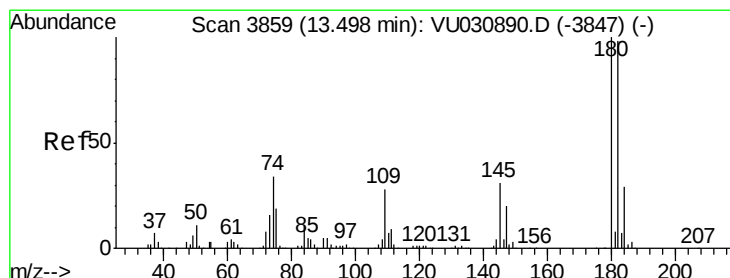
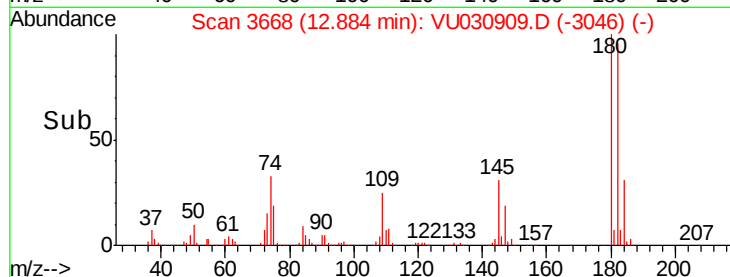
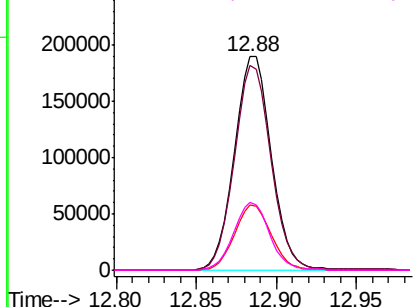
#67
 1,3,5-Trichlorobenzene
 Concen: 50.561 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU030909.D
 Acq: 08 Apr 2019 16:34

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

Tgt Ion:	180	Resp:	298081
Ion	Ratio	Lower	Upper
180	100		
182	95.2	78.3	117.5
184	30.5	24.7	37.1
145	30.9	24.2	36.4

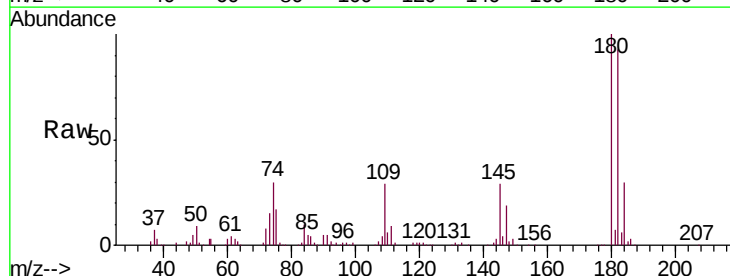


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

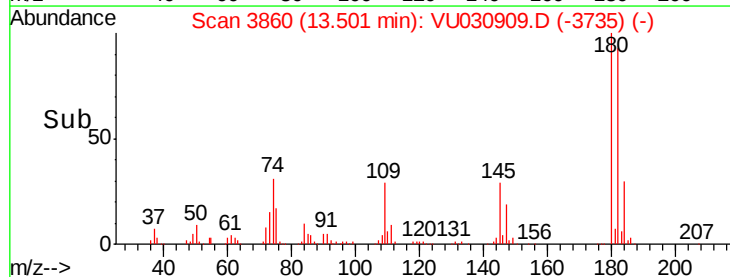
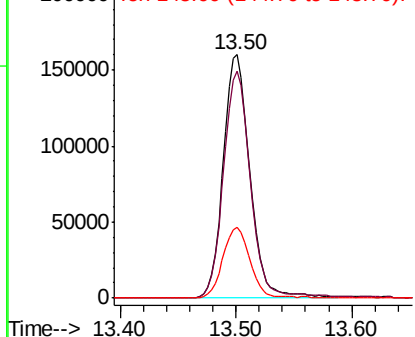


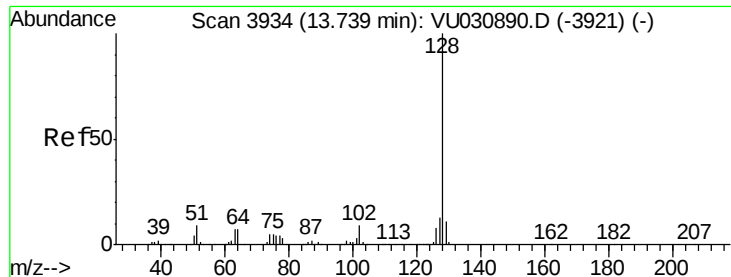
#68
 1,2,4-trichlorobenzene
 Concen: 50.803 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. 0.00 min
 Lab File: VU030909.D
 Acq: 08 Apr 2019 16:34

Tgt Ion:	180	Resp:	254655
Ion	Ratio	Lower	Upper
180	100		
182	93.9	76.7	115.1
145	29.2	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: 52.147 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU030909.D

Acq: 08 Apr 2019 16:34

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

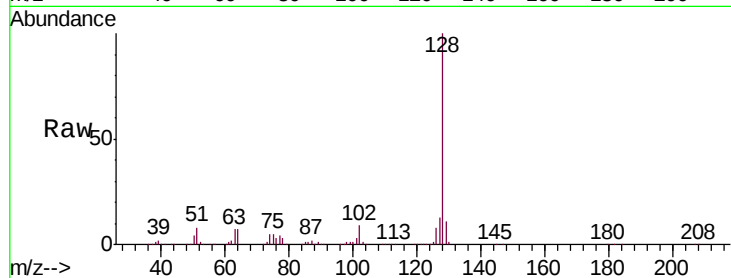
Tgt Ion:128 Resp: 847370

Ion Ratio Lower Upper

128 100

127 12.9 10.4 15.6

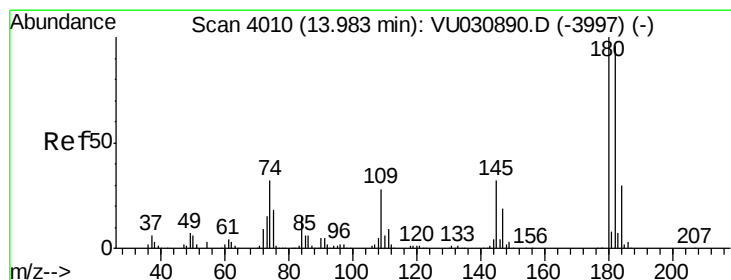
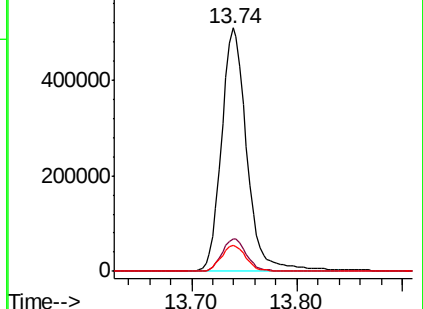
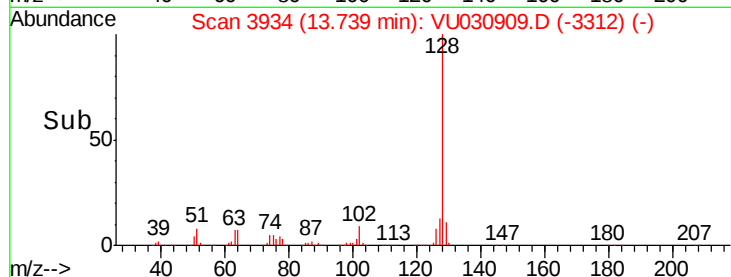
129 10.5 8.6 12.8



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: 52.219 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU030909.D

Acq: 08 Apr 2019 16:34

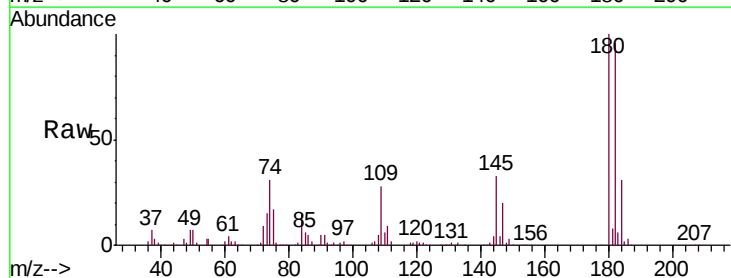
Tgt Ion:180 Resp: 273480

Ion Ratio Lower Upper

180 100

182 94.5 78.1 117.1

145 32.4 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

