

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU041719\
 Data File : VU031217.D
 Acq On : 16 Apr 2019 17:41
 Operator : JC/SP
 Sample : VSTD20051
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20051

Quant Time: Apr 17 02:39:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM041719WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Apr 17 02:35:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	528794	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	478575	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	256365	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	924511	196.86	ug/L	0.00
7) Chloroethane-d5	1.68	69	817101	219.98	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	1869495	216.36	ug/L	0.00
21) 2-Butanone-d5	4.18	46	1462796	393.86	ug/L	0.00
24) Chloroform-d	4.64	84	1580276	213.04	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.30	65	986530	199.32	ug/L	0.00
32) Benzene-d6	5.34	84	3174456	223.18	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.32	67	1017945	212.33	ug/L	0.00
41) Toluene-d8	7.56	98	2901472	231.53	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	524430	238.23	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	1101013	502.17	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	1397806	216.48	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	1110989	216.49	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	918080	196.502	ug/L 99
3) Chloromethane	1.32	50	1079599	182.240	ug/L 99
5) Vinyl chloride	1.40	62	1035142	181.041	ug/L 97
6) Bromomethane	1.63	94	705644	225.002	ug/L 99
8) Chloroethane	1.70	64	699470	206.986	ug/L 99
9) Trichlorofluoromethane	1.88	101	1483735	213.162	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	785350	204.367	ug/L 99
12) 1,1-Dichloroethene	2.28	96	777148	210.673	ug/L 94
13) Acetone	2.34	43	921308	257.587	ug/L 98
14) Carbon disulfide	2.47	76	2225143	198.662	ug/L 99
15) Methyl Acetate	2.61	43	986976	175.035	ug/L 99
16) Methylene chloride	2.70	84	804110	185.602	ug/L 99
17) trans-1,2-Dichloroethene	2.98	96	748475	197.111	ug/L 98
18) Methyl tert-butyl Ether	2.99	73	2458330	194.402	ug/L 100
19) 1,1-Dichloroethane	3.44	63	1454915	186.334	ug/L 99
20) cis-1,2-Dichloroethene	4.22	96	838507	193.986	ug/L 95
22) 2-Butanone	4.27	43	1453543	336.328	ug/L 99
23) Bromochloromethane	4.54	128	412417	200.802	ug/L 99
25) Chloroform	4.67	83	1435513	178.626	ug/L 100
27) 1,2-Dichloroethane	5.40	62	1115149	182.834	ug/L 99
29) Cyclohexane	4.99	56	1404101	204.745	ug/L 98
30) 1,1,1-Trichloroethane	4.91	97	1234211	208.286	ug/L 100
31) Carbon tetrachloride	5.13	117	1086092	212.504	ug/L 98
33) Benzene	5.39	78	3208462	203.922	ug/L 100
34) Trichloroethene	6.18	95	763823	197.870	ug/L 99
35) Methylcyclohexane	6.41	83	1271083	215.553	ug/L 99
37) 1,2-Dichloropropane	6.43	63	849147	193.915	ug/L 99
38) Bromodichloromethane	6.75	83	1080142	201.895	ug/L 98
39) cis-1,3-Dichloropropene	7.26	75	1394107	223.054	ug/L 99
40) 4-Methyl-2-pentanone	7.46	43	2563779	373.133	ug/L 98

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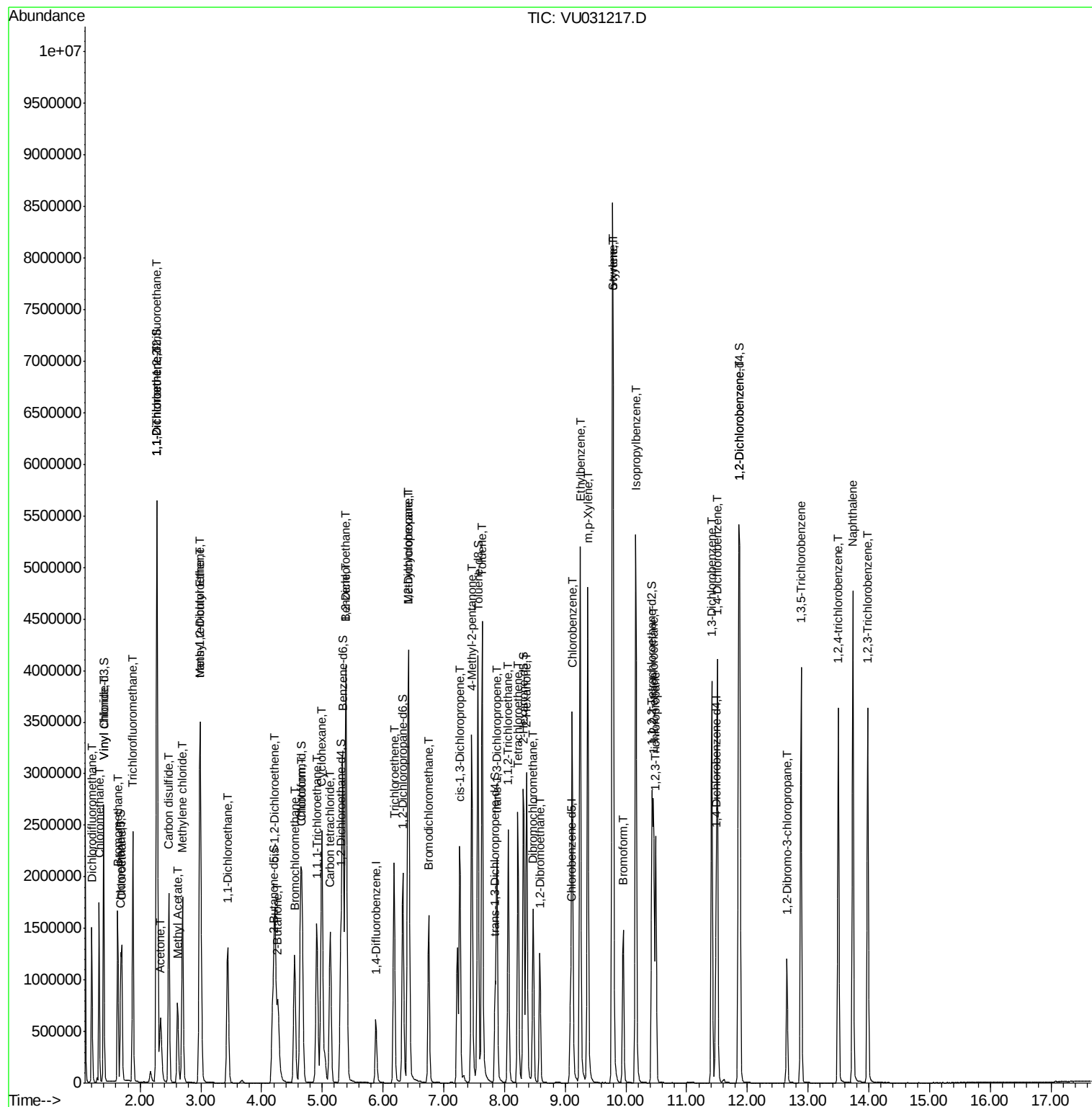
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.63	91	3391861	213.435	ug/L	100
44) trans-1,3-Dichloropropene	7.87	75	1220547	220.824	ug/L	98
45) 1,1,2-Trichloroethane	8.06	97	772056	204.416	ug/L	97
46) Tetrachloroethene	8.22	164	618773	218.037	ug/L	98
48) 2-Hexanone	8.36	43	2031917	380.558	ug/L	99
49) Dibromochloromethane	8.47	129	871814	217.151	ug/L	97
50) 1,2-Dibromoethane	8.58	107	835995	206.076	ug/L	99
51) Chlorobenzene	9.12	112	2004159	203.930	ug/L	99
52) Ethylbenzene	9.25	91	3826843	220.667	ug/L	99
53) m,p-Xylene	9.37	106	1385228	227.638	ug/L	97
54) o-xylene	9.77	106	1429208	235.852	ug/L	99
55) Styrene	9.79	104	2485390	240.256	ug/L	97
56) Isopropylbenzene	10.16	105	3617867	227.970	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	1320910	196.166	ug/L	100
59) 1,2,3-Trichloropropane	10.49	75	1018357	194.811	ug/L	99
61) Bromoform	9.95	173	686620	201.474	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	1606850	198.657	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	1614350	195.314	ug/L	100
65) 1,2-Dichlorobenzene	11.87	146	1611044	197.234	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	311885	184.358	ug/L	98
67) 1,3,5-Trichlorobenzene	12.88	180	1251402	210.185	ug/L	100
68) 1,2,4-trichlorobenzene	13.50	180	1126672	224.300	ug/L	99
69) Naphthalene	13.74	128	3690098	227.609	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	1148217	217.137	ug/L	98

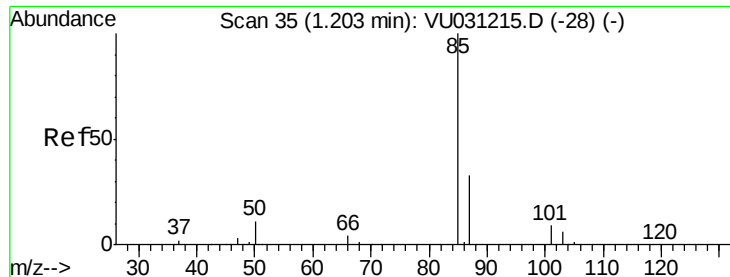
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 196.502 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU031217.D

Acq: 16 Apr 2019 17:41

Instrument :

MSVOA_U

ClientSampleId :

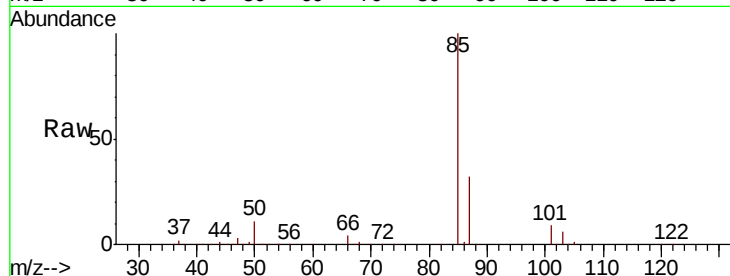
VSTD20051

Tgt Ion: 85 Resp: 918080

Ion Ratio Lower Upper

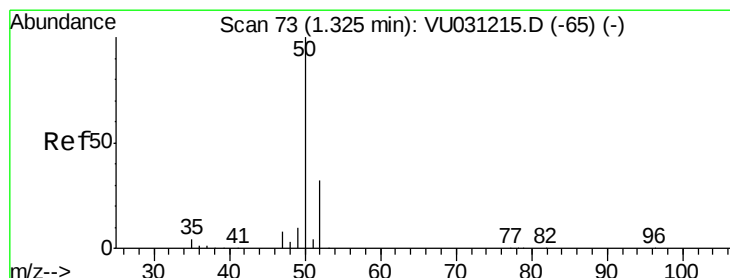
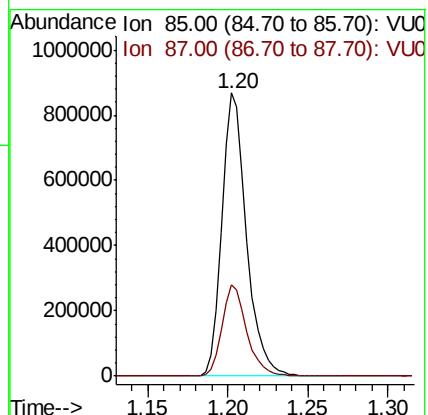
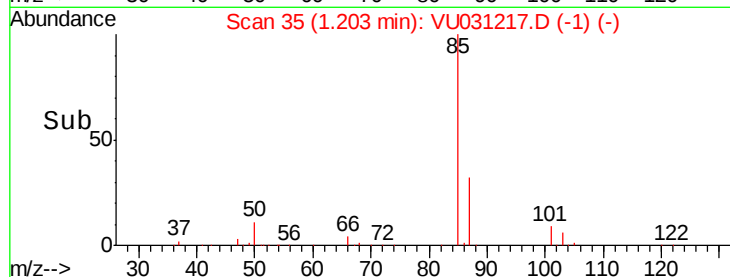
85 100

87 32.3 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VU031217.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU031217.D (-1) (-)



#3

Chloromethane

Concen: 182.240 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU031217.D

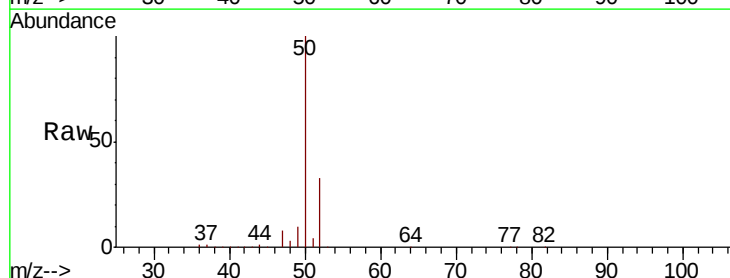
Acq: 16 Apr 2019 17:41

Tgt Ion: 50 Resp: 1079599

Ion Ratio Lower Upper

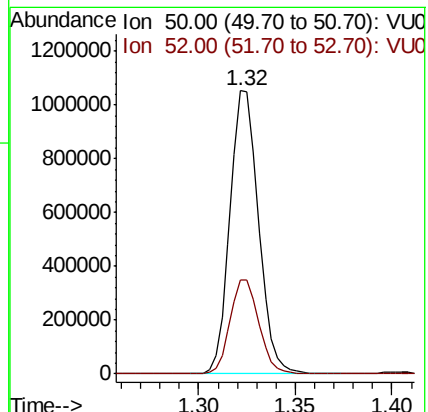
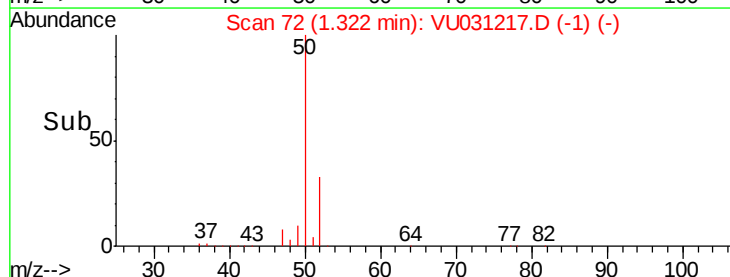
50 100

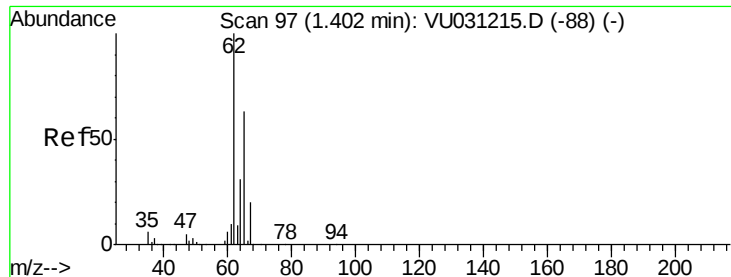
52 33.2 22.7 42.3



Abundance Ion 50.00 (49.70 to 50.70): VU031217.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU031217.D (-1) (-)





#5

Vinyl chloride

Concen: 181.041 ug/L

RT: 1.40 min Scan# 97

Delta R.T. -0.00 min

Lab File: VU031217.D

Acq: 16 Apr 2019 17:41

Instrument :

MSVOA_U

ClientSampleId :

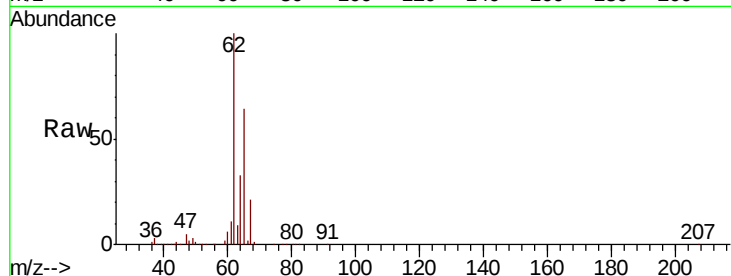
VSTD20051

Tgt Ion: 62 Resp: 1035142

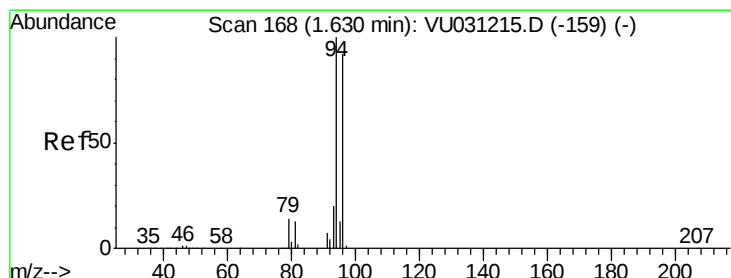
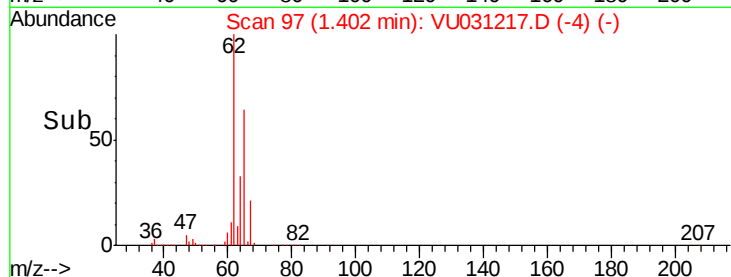
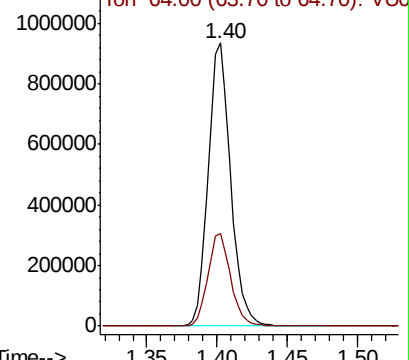
Ion Ratio Lower Upper

62 100

64 32.6 21.8 40.6



Abundance Ion 62.00 (61.70 to 62.70): VU031217.D (-88) (-)



#6

Bromomethane

Concen: 225.002 ug/L

RT: 1.63 min Scan# 168

Delta R.T. -0.00 min

Lab File: VU031217.D

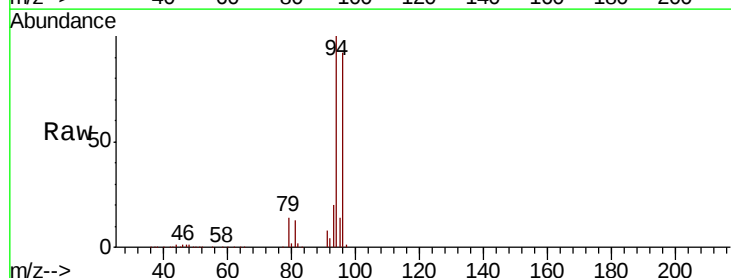
Acq: 16 Apr 2019 17:41

Tgt Ion: 94 Resp: 705644

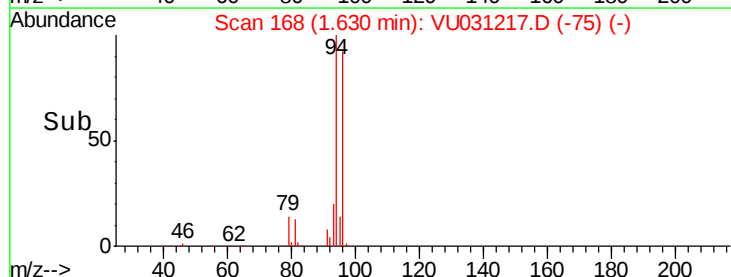
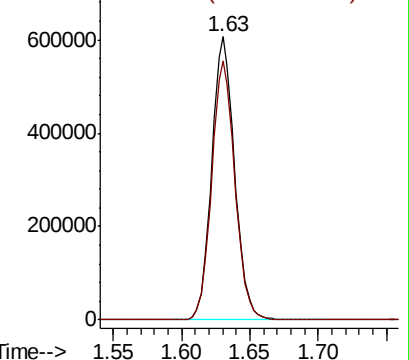
Ion Ratio Lower Upper

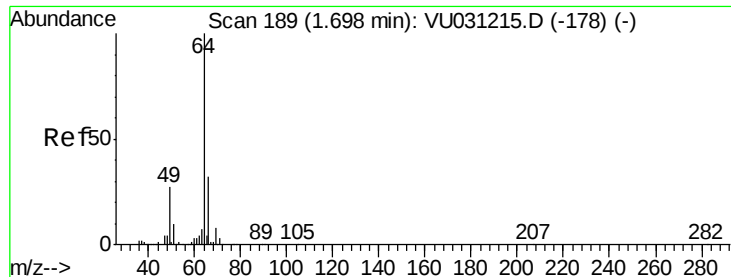
94 100

96 91.6 64.6 120.0



Abundance Ion 94.00 (93.70 to 94.70): VU031217.D (-159) (-)

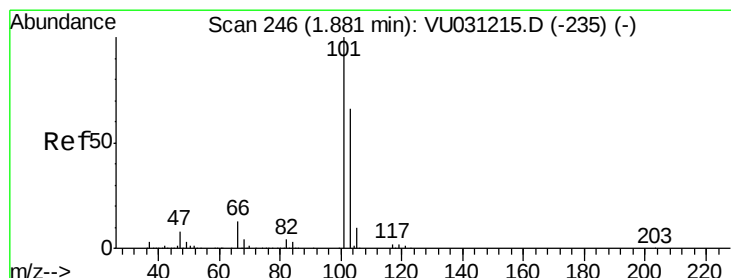
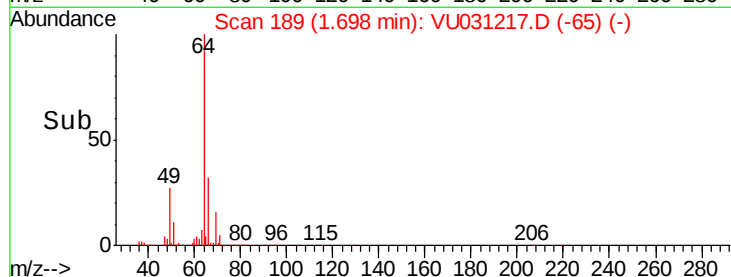
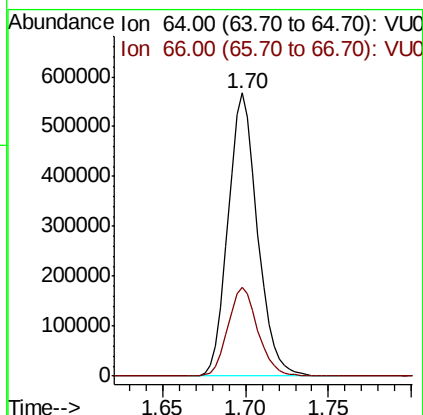
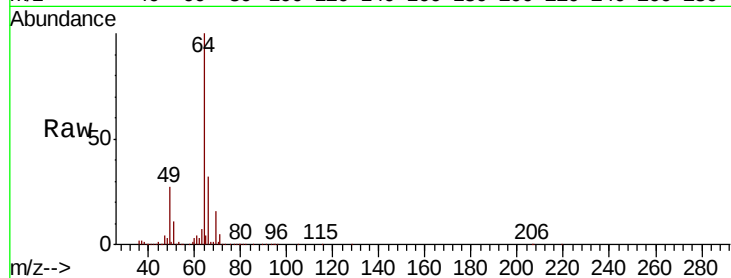




#8
Chloroethane
Concen: 206.986 ug/L
RT: 1.70 min Scan# 189
Delta R.T. -0.00 min
Lab File: VU031217.D
Acq: 16 Apr 2019 17:41

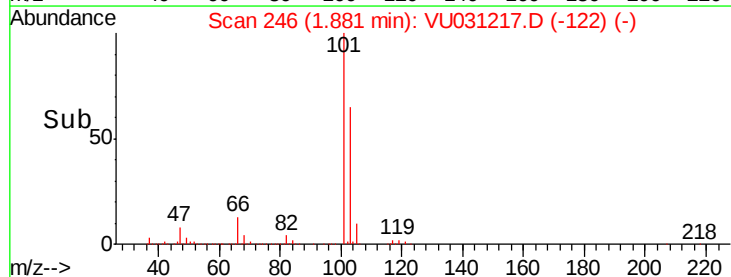
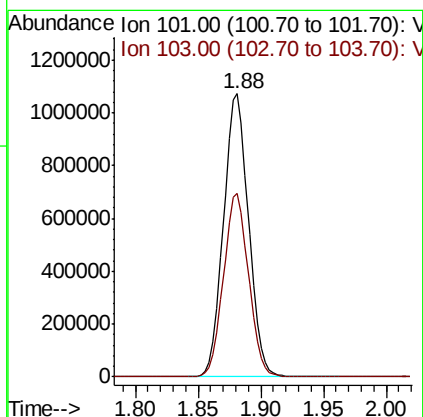
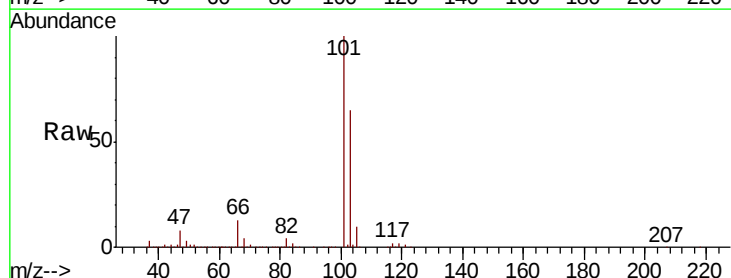
Instrument :
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VSTD20051

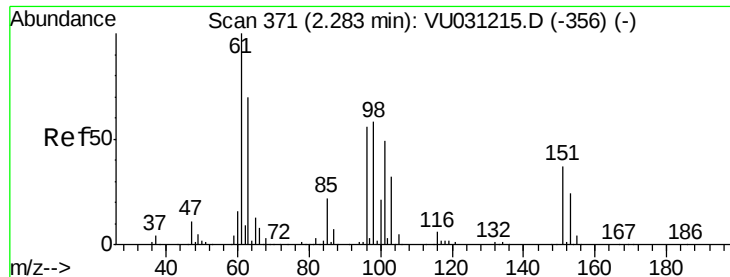
Tgt Ion: 64 Resp: 699470
Ion Ratio Lower Upper
64 100
66 31.5 22.6 42.0



#9
Trichlorofluoromethane
Concen: 213.162 ug/L
RT: 1.88 min Scan# 246
Delta R.T. -0.00 min
Lab File: VU031217.D
Acq: 16 Apr 2019 17:41

Tgt Ion: 101 Resp: 1483735
Ion Ratio Lower Upper
101 100
103 64.7 53.0 79.6





#10

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

Concen: 204.367 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU031217.D

Acq: 16 Apr 2019 17:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD20051

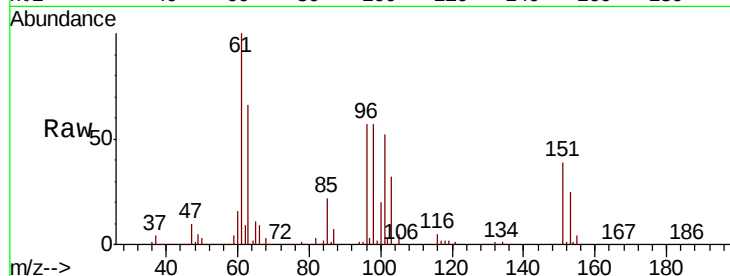
Tgt Ion: 101 Resp: 785350

Ion Ratio Lower Upper

101 100

85 43.6 35.4 53.0

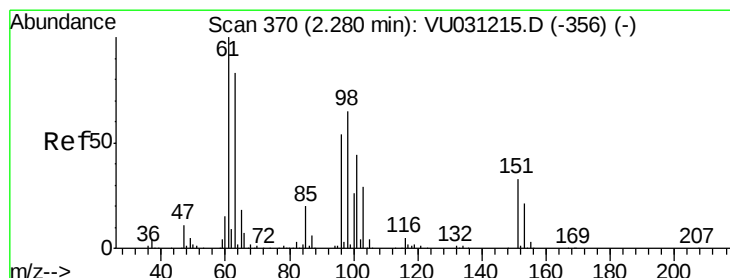
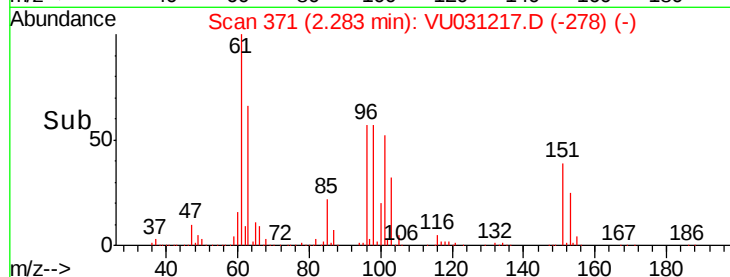
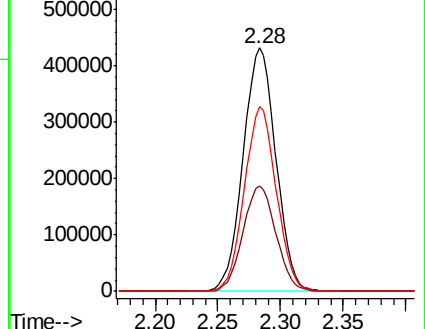
151 73.9 59.8 89.8



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: 210.673 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU031217.D

Acq: 16 Apr 2019 17:41

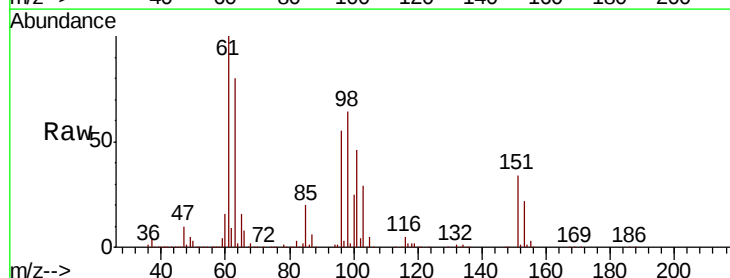
Tgt Ion: 96 Resp: 777148

Ion Ratio Lower Upper

96 100

61 180.5 130.4 242.2

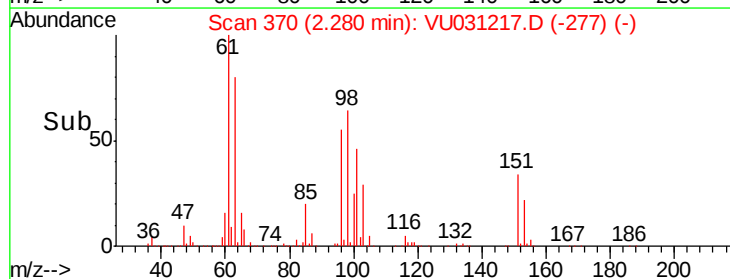
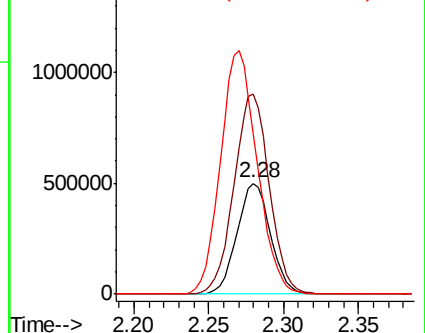
63 144.1 108.9 202.3

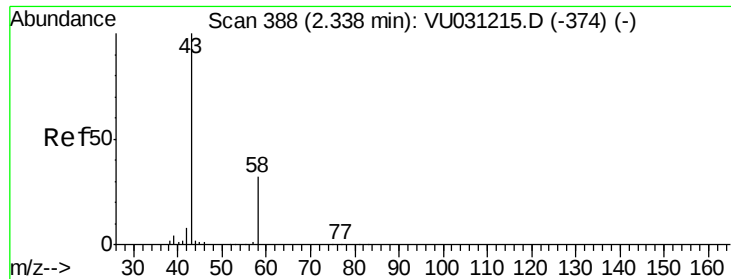


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 257.587 ug/L

RT: 2.34 min Scan# 388

Delta R.T. -0.00 min

Lab File: VU031217.D

Acq: 16 Apr 2019 17:41

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ClientSampleId :

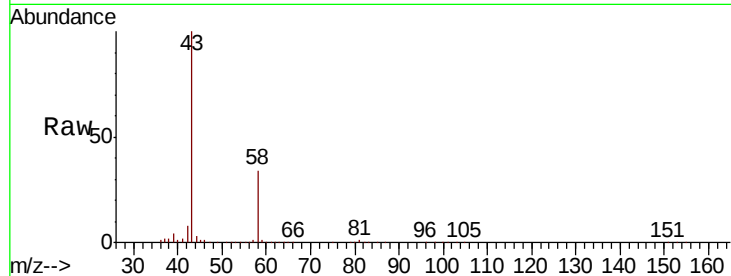
VSTD20051

Tgt Ion: 43 Resp: 921308

Ion Ratio Lower Upper

43 100

58 33.5 0.0 65.0



Abundance Ion 43.00 (42.70 to 43.70): VU031217.D (-374) (-)

Ion 58.00 (57.70 to 58.70): VU031217.D (-374) (-)

2.34

400000

300000

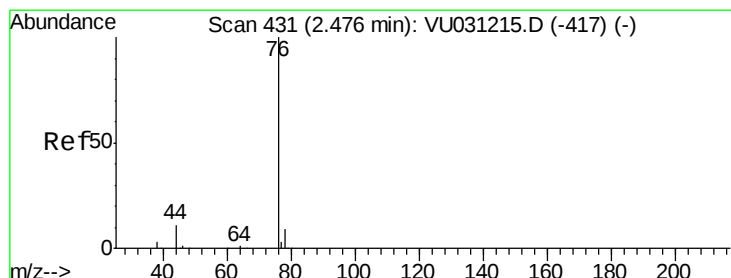
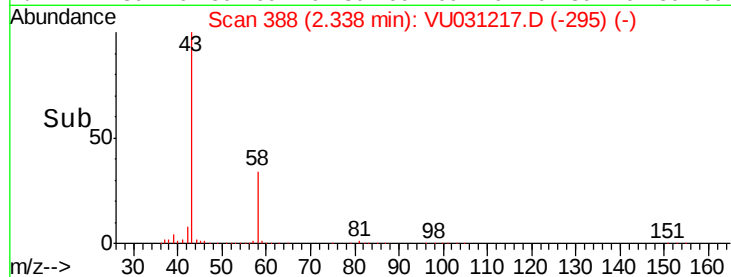
200000

100000

0

2.30 2.40

Time-->



#14

Carbon disulfide

Concen: 198.662 ug/L

RT: 2.47 min Scan# 430

Delta R.T. -0.00 min

Lab File: VU031217.D

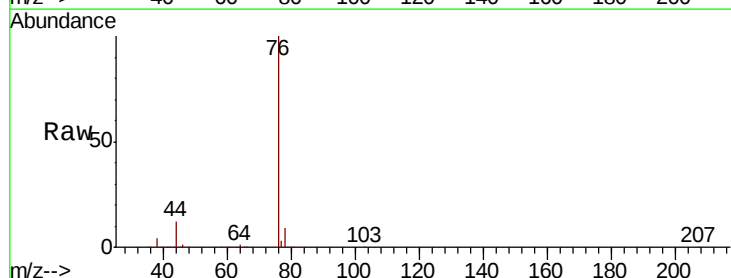
Acq: 16 Apr 2019 17:41

Tgt Ion: 76 Resp: 2225143

Ion Ratio Lower Upper

76 100

78 8.8 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VU031217.D (-338) (-)

Ion 78.00 (77.70 to 78.70): VU031217.D (-338) (-)

2.47

1500000

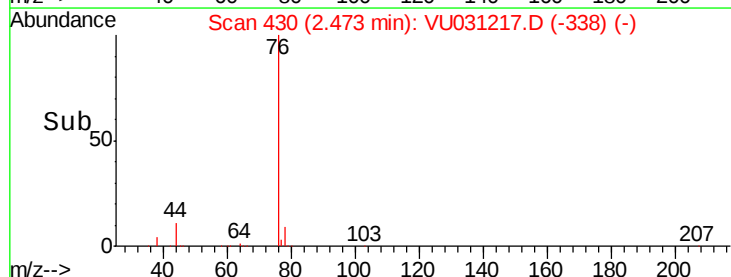
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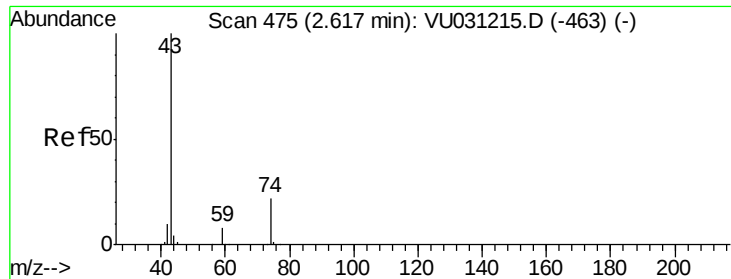
500000

0

2.40 2.45 2.50 2.55

Time-->





#15

Methyl Acetate

Concen: 175.035 ug/L

RT: 2.61 min Scan# 474

Delta R.T. -0.00 min

Lab File: VU031217.D

Acq: 16 Apr 2019 17:41

Instrument :

MSVOA_U

ClientSampled :

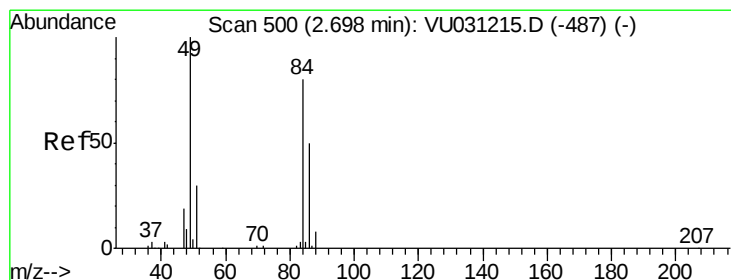
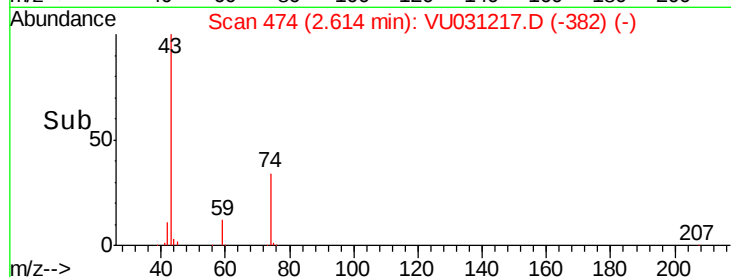
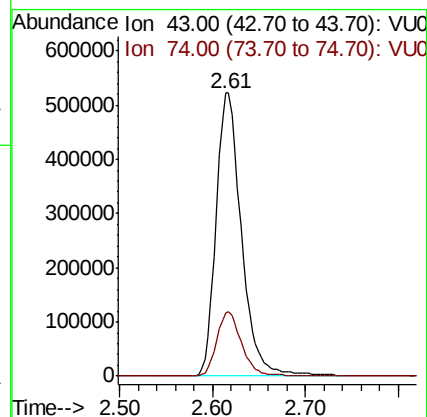
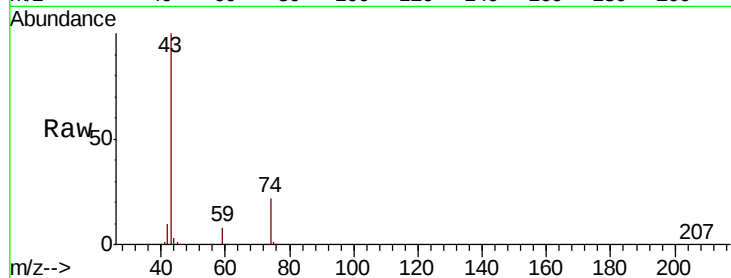
VSTD20051

Tgt Ion: 43 Resp: 986976

Ion Ratio Lower Upper

43 100

74 22.5 18.3 27.5



#16

Methylene chloride

Concen: 185.602 ug/L

RT: 2.70 min Scan# 500

Delta R.T. -0.00 min

Lab File: VU031217.D

Acq: 16 Apr 2019 17:41

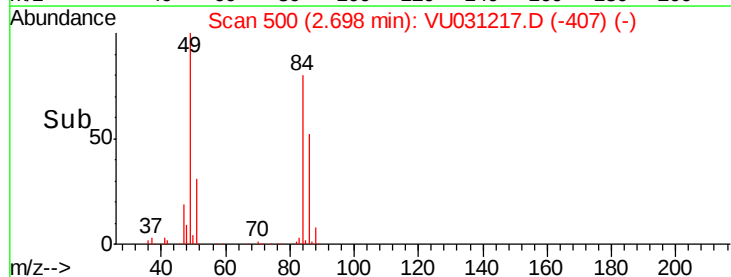
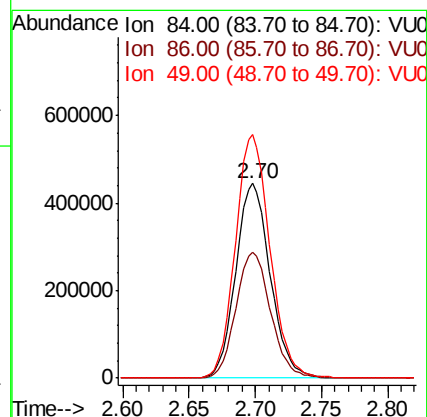
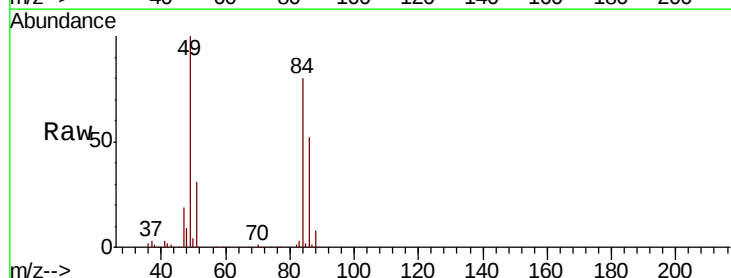
Tgt Ion: 84 Resp: 804110

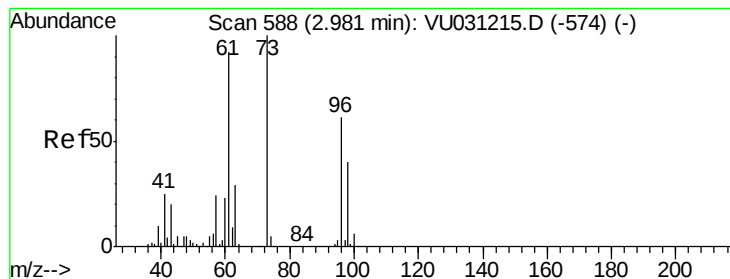
Ion Ratio Lower Upper

84 100

86 64.6 44.0 81.8

49 125.2 88.0 163.4





#17

trans-1,2-Dichloroethene

Concen: 197.111 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU031217.D

Acq: 16 Apr 2019 17:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD20051

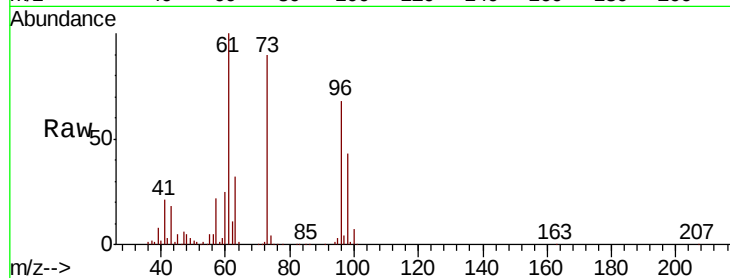
Tgt Ion: 96 Resp: 748475

Ion Ratio Lower Upper

96 100

61 147.7 105.5 195.9

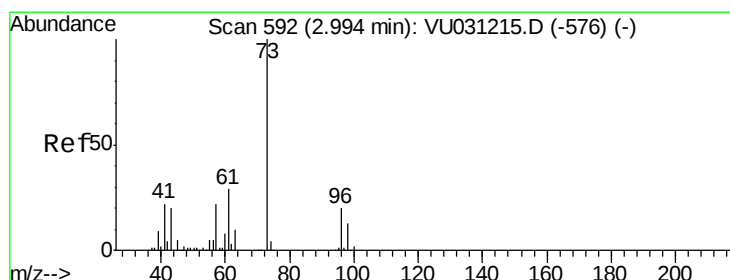
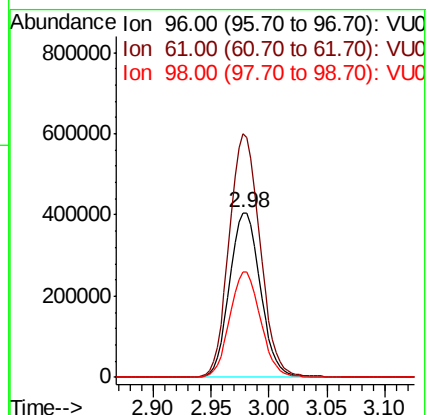
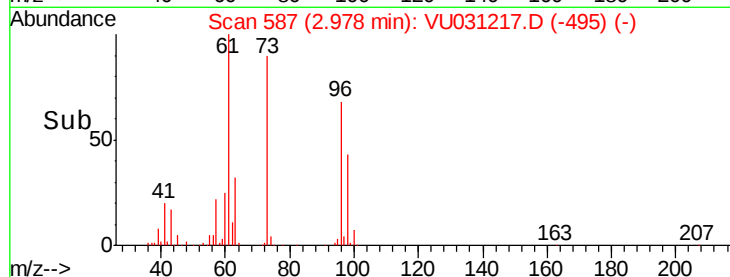
98 63.8 45.4 84.4



Abundance Ion 96.00 (95.70 to 96.70): VU031217.D (-495) (-)

Ion 61.00 (60.70 to 61.70): VU031217.D (-495) (-)

Ion 98.00 (97.70 to 98.70): VU031217.D (-495) (-)



#18

Methyl tert-butyl Ether

Concen: 194.402 ug/L

RT: 2.99 min Scan# 592

Delta R.T. -0.00 min

Lab File: VU031217.D

Acq: 16 Apr 2019 17:41

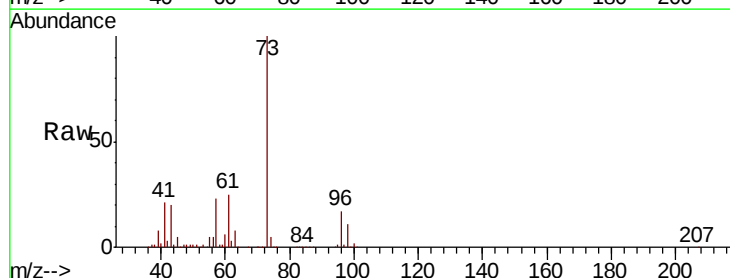
Tgt Ion: 73 Resp: 2458330

Ion Ratio Lower Upper

73 100

43 19.4 15.6 23.4

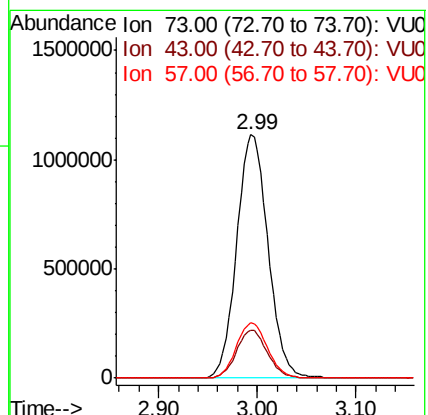
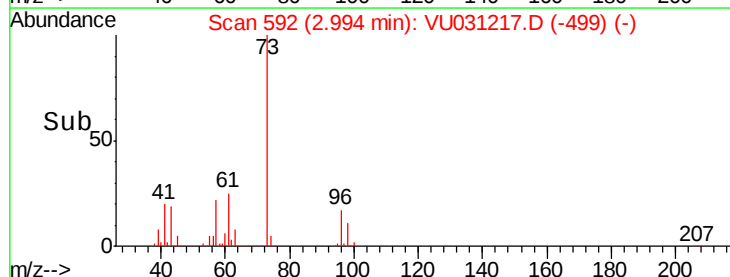
57 22.8 18.0 27.0

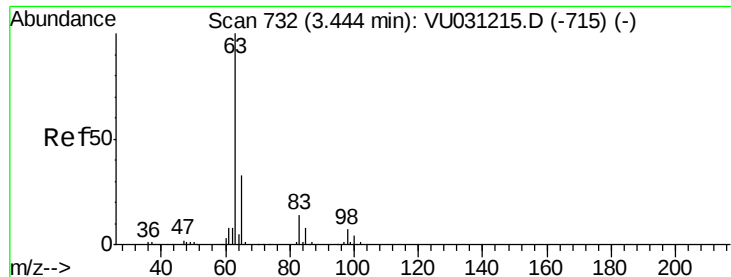


Abundance Ion 73.00 (72.70 to 73.70): VU031217.D (-499) (-)

Ion 43.00 (42.70 to 43.70): VU031217.D (-499) (-)

Ion 57.00 (56.70 to 57.70): VU031217.D (-499) (-)

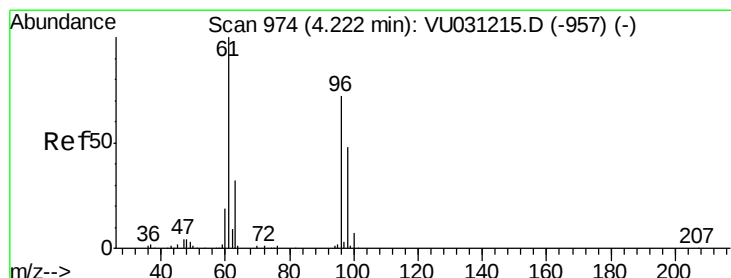
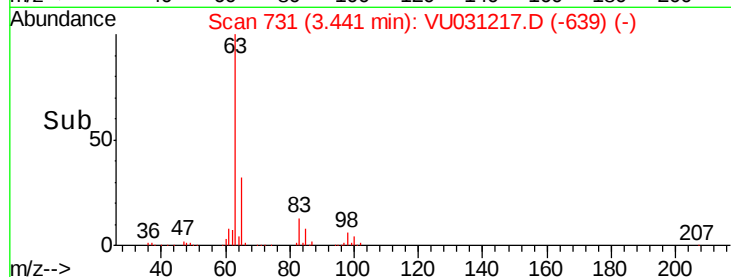
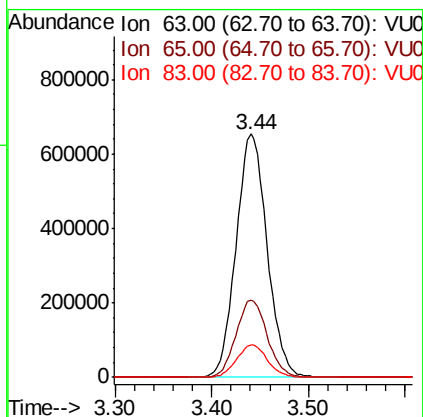
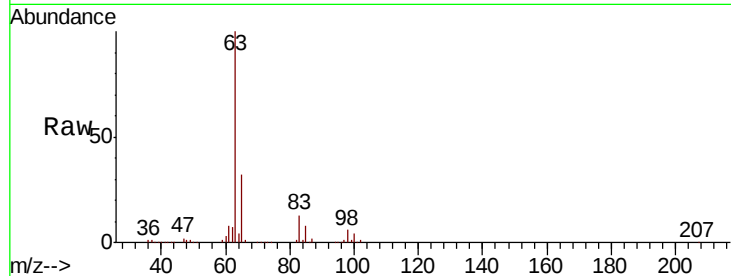




#19
 1,1-Dichloroethane
 Concen: 186.334 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. -0.00 min
 Lab File: VU031217.D
 Acq: 16 Apr 2019 17:41

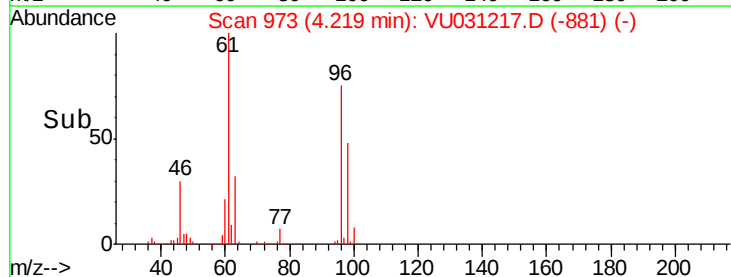
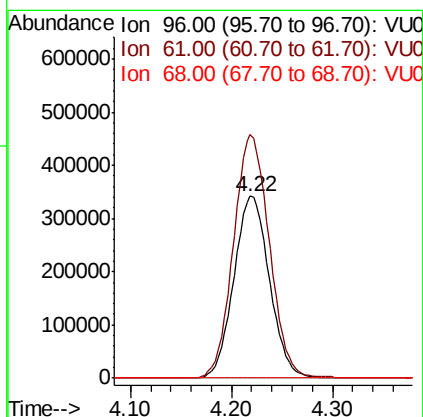
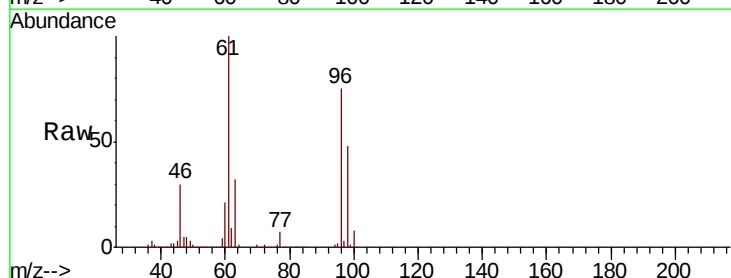
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD20051

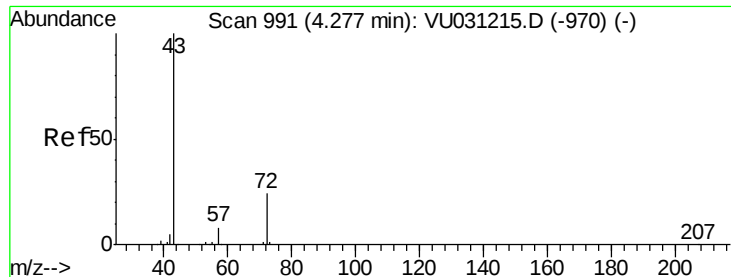
Tgt Ion: 63 Resp: 1454915
 Ion Ratio Lower Upper
 63 100
 65 31.8 22.8 42.4
 83 13.2 9.7 17.9



#20
 cis-1,2-Dichloroethene
 Concen: 193.986 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. -0.00 min
 Lab File: VU031217.D
 Acq: 16 Apr 2019 17:41

Tgt Ion: 96 Resp: 838507
 Ion Ratio Lower Upper
 96 100
 61 133.8 98.2 182.4
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 336.328 ug/L

RT: 4.27 min Scan# 988

Delta R.T. -0.01 min

Lab File: VU031217.D

Acq: 16 Apr 2019 17:41

Instrument :

MSVOA_U

ClientSampled :

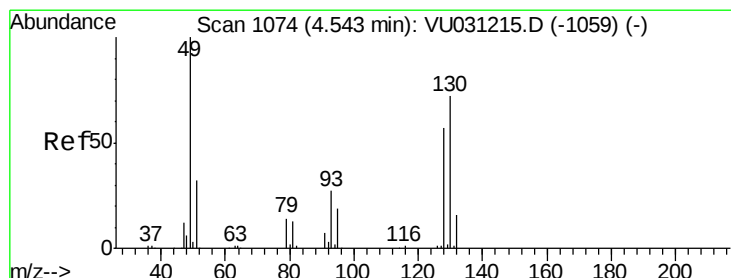
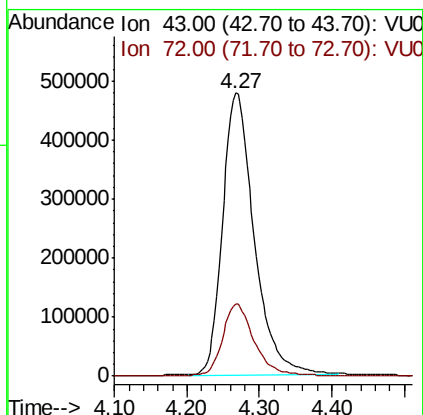
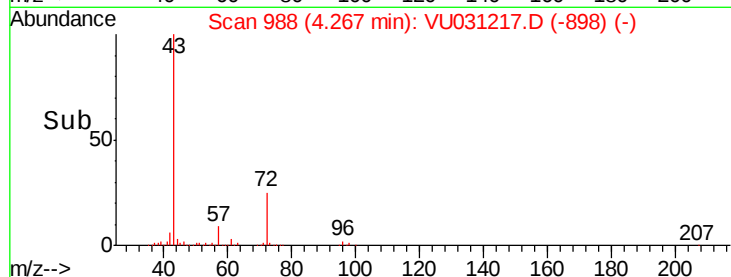
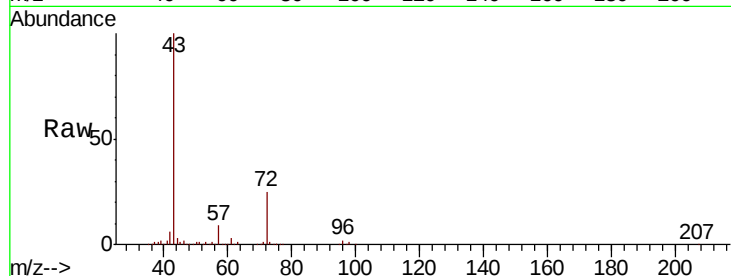
VSTD20051

Tgt Ion: 43 Resp: 1453543

Ion Ratio Lower Upper

43 100

72 25.9 12.6 37.8



#23

Bromochloromethane

Concen: 200.802 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. -0.00 min

Lab File: VU031217.D

Acq: 16 Apr 2019 17:41

Tgt Ion: 128 Resp: 412417

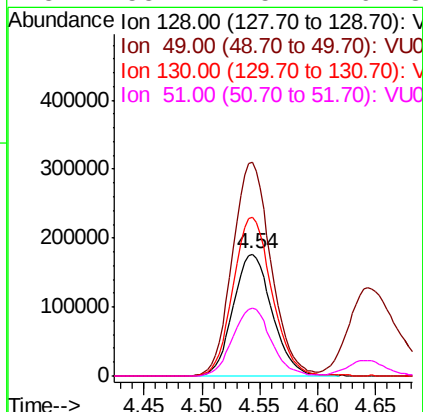
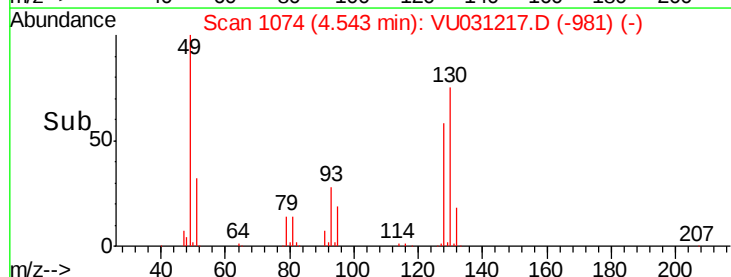
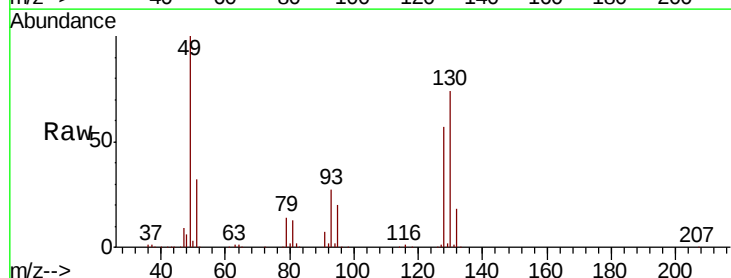
Ion Ratio Lower Upper

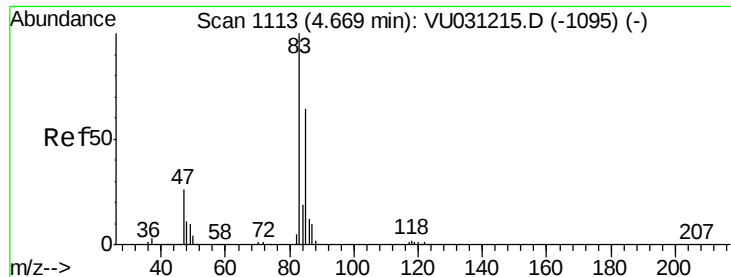
128 100

49 175.5 124.0 230.4

130 130.5 89.7 166.5

51 55.7 45.2 67.8

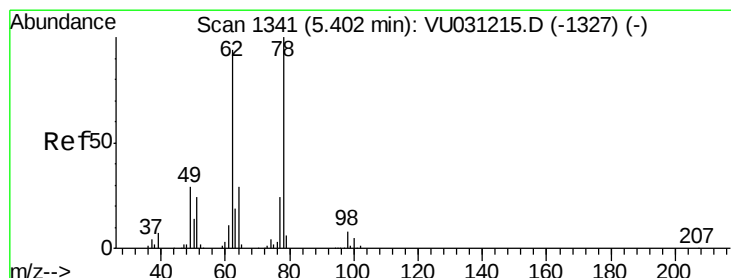
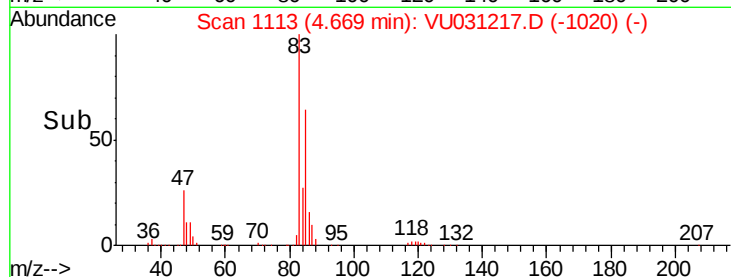
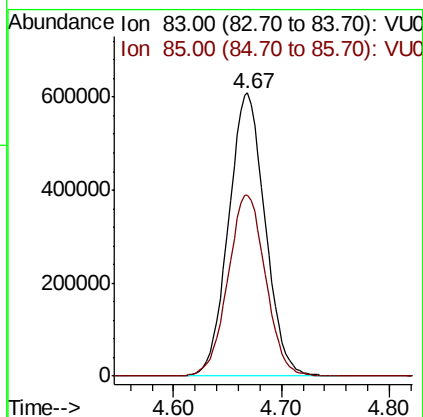
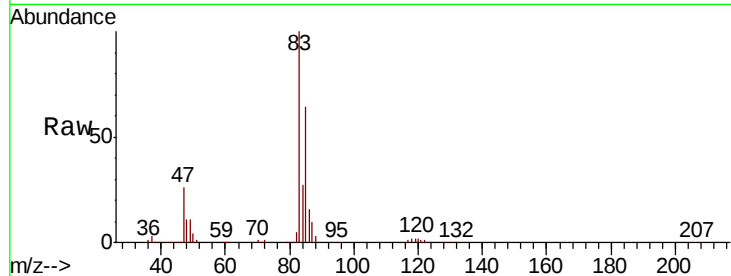




#25
Chloroform
Concen: 178.626 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VU031217.D
Acq: 16 Apr 2019 17:41

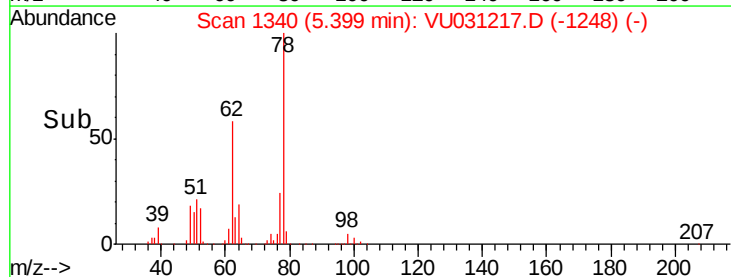
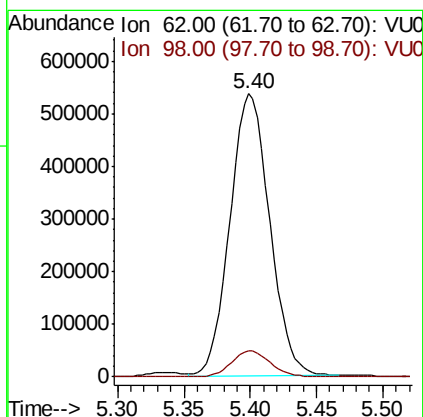
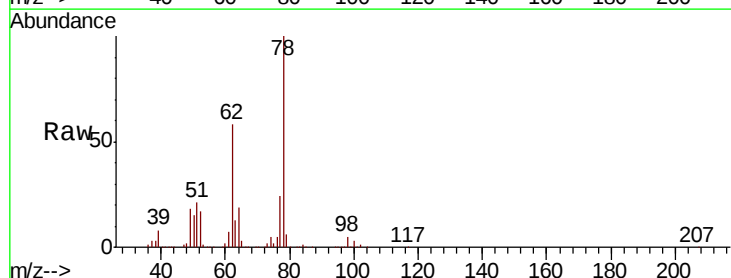
Instrument :
MSVOA_U
ClientSampleId :
VSTD20051

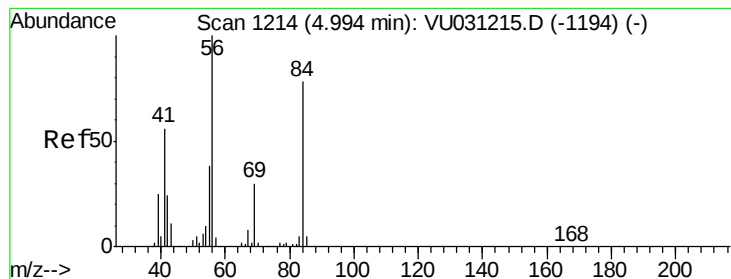
Tgt Ion: 83 Resp: 143513
Ion Ratio Lower Upper
83 100
85 64.1 44.8 83.2



#27
1,2-Dichloroethane
Concen: 182.834 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VU031217.D
Acq: 16 Apr 2019 17:41

Tgt Ion: 62 Resp: 1115149
Ion Ratio Lower Upper
62 100
98 9.2 7.0 10.6





#29

Cyclohexane

Concen: 204.745 ug/L

RT: 4.99 min Scan# 1213

Delta R.T. -0.00 min

Lab File: VU031217.D

Acq: 16 Apr 2019 17:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD20051

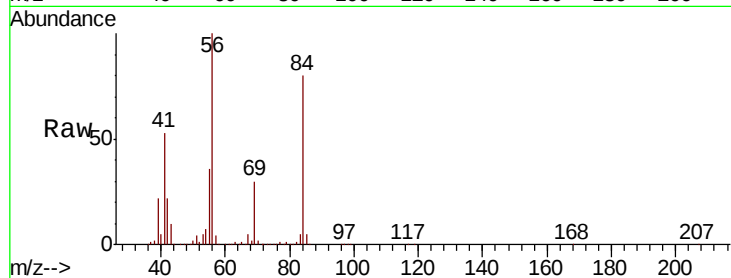
Tgt Ion: 56 Resp: 1404101

Ion Ratio Lower Upper

56 100

69 29.5 23.0 34.6

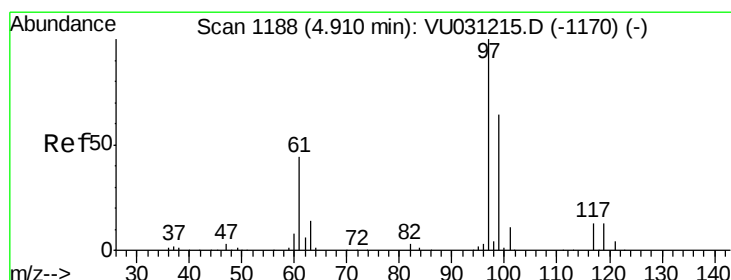
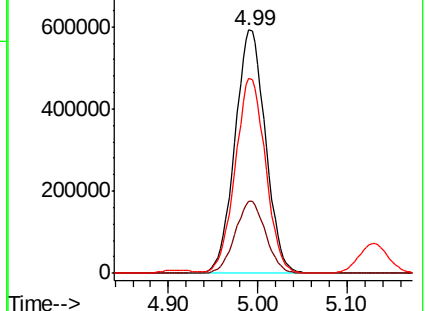
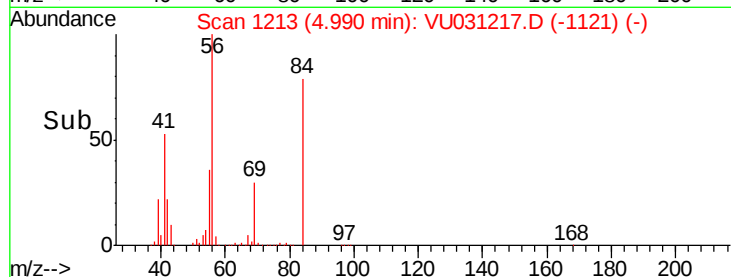
84 79.4 61.8 92.6



Abundance Ion 56.00 (55.70 to 56.70): VU031217.D (-1121) (-)

Ion 69.00 (68.70 to 69.70): VU031217.D (-1121) (-)

Ion 84.00 (83.70 to 84.70): VU031217.D (-1121) (-)



#30

1,1,1-Trichloroethane

Concen: 208.286 ug/L

RT: 4.91 min Scan# 1188

Delta R.T. -0.00 min

Lab File: VU031217.D

Acq: 16 Apr 2019 17:41

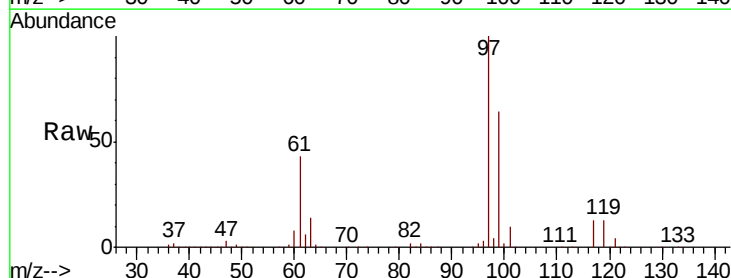
Tgt Ion: 97 Resp: 1234211

Ion Ratio Lower Upper

97 100

99 64.2 51.4 77.2

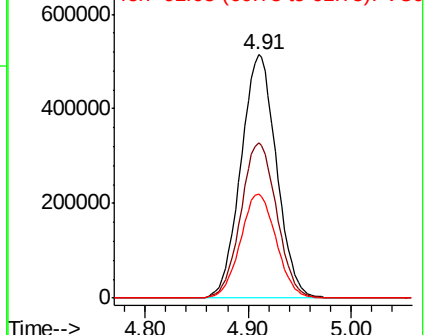
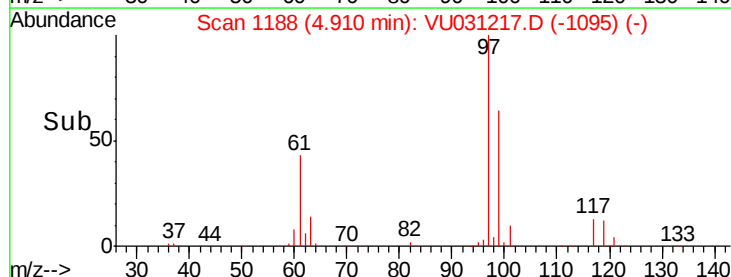
61 43.2 35.0 52.4

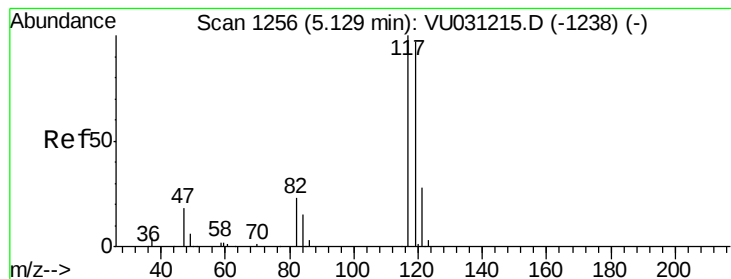


Abundance Ion 97.00 (96.70 to 97.70): VU031217.D (-1095) (-)

Ion 99.00 (98.70 to 99.70): VU031217.D (-1095) (-)

Ion 61.05 (60.75 to 61.75): VU031217.D (-1095) (-)





#31

Carbon tetrachloride

Concen: 212.504 ug/L

RT: 5.13 min Scan# 1257

Delta R.T. 0.00 min

Lab File: VU031217.D

Acq: 16 Apr 2019 17:41

Instrument :

MSVOA_U

ClientSampleId :

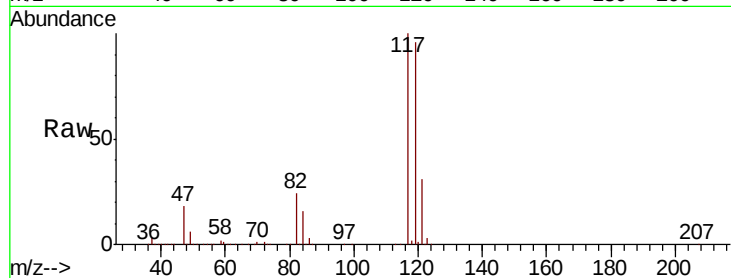
VSTD20051

Tgt Ion:117 Resp: 1086092

Ion Ratio Lower Upper

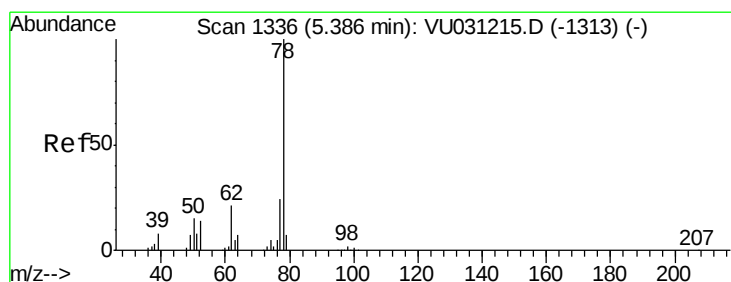
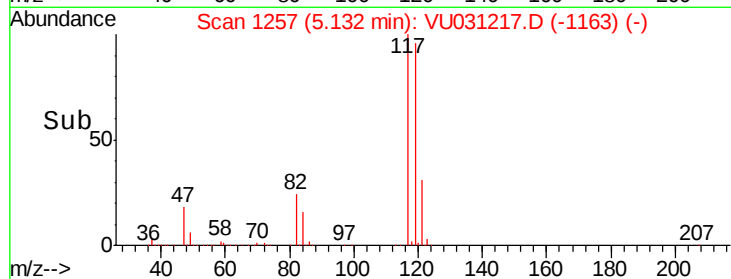
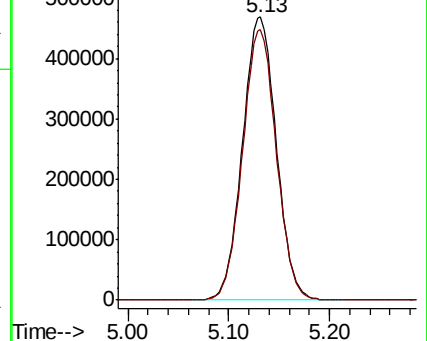
117 100

119 95.3 78.0 117.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 203.922 ug/L

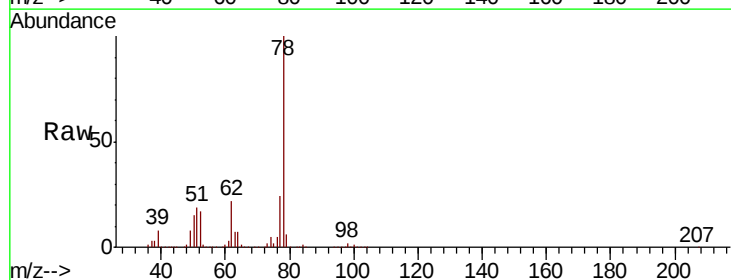
RT: 5.39 min Scan# 1336

Delta R.T. -0.00 min

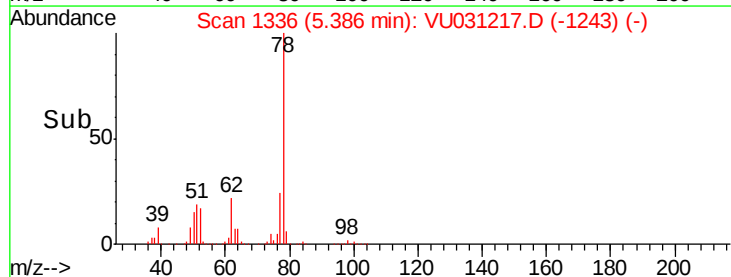
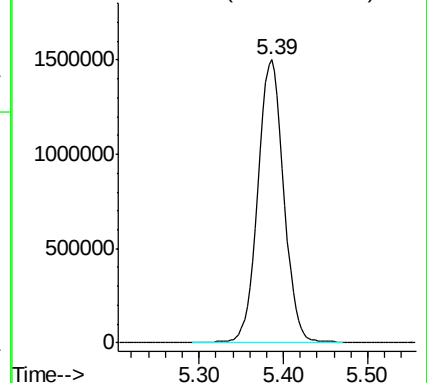
Lab File: VU031217.D

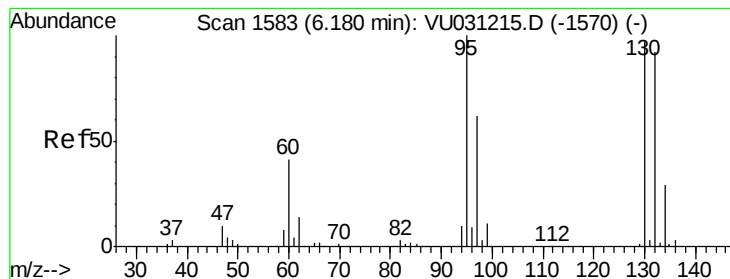
Acq: 16 Apr 2019 17:41

Tgt Ion: 78 Resp: 3208462



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 197.870 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VU031217.D

Acq: 16 Apr 2019 17:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD20051

Tgt Ion: 95 Resp: 763823

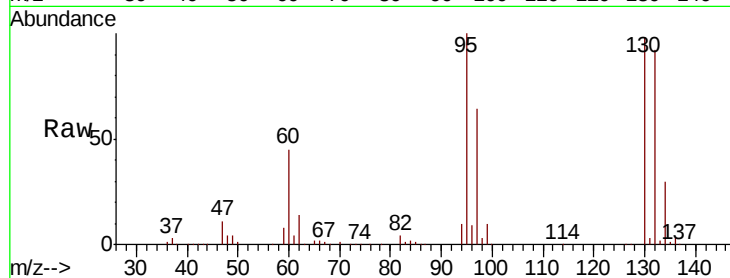
Ion Ratio Lower Upper

95 100

97 64.2 43.6 81.0

132 92.3 64.5 119.7

130 98.3 68.0 126.2

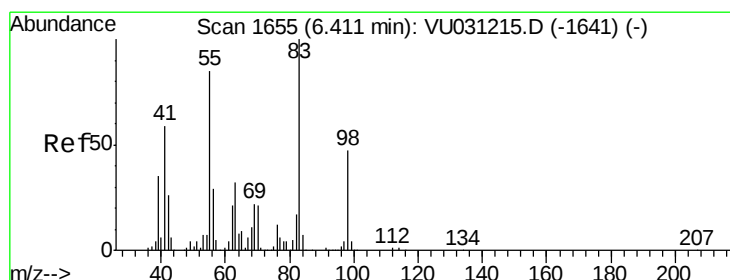
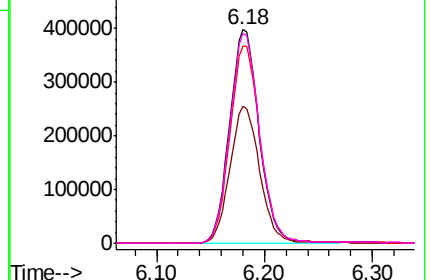
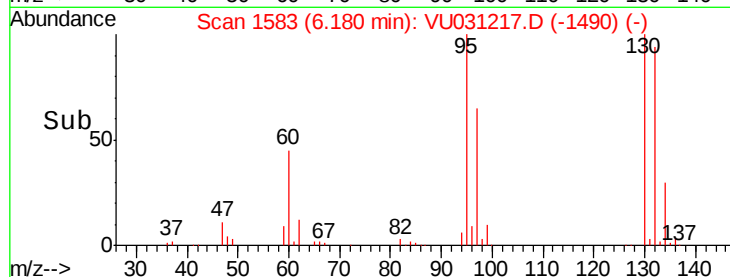


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 215.553 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VU031217.D

Acq: 16 Apr 2019 17:41

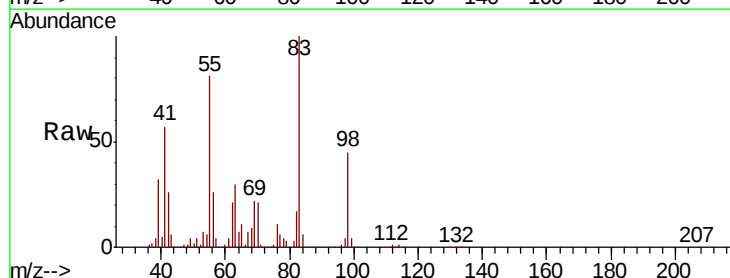
Tgt Ion: 83 Resp: 1271083

Ion Ratio Lower Upper

83 100

55 82.5 67.0 100.4

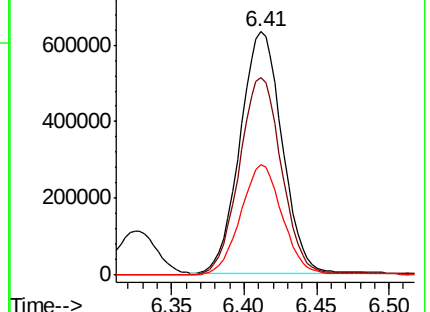
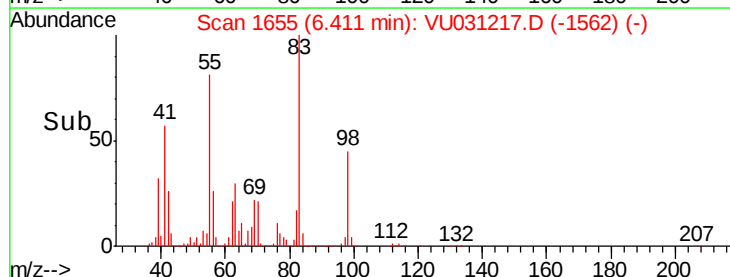
98 45.4 36.9 55.3

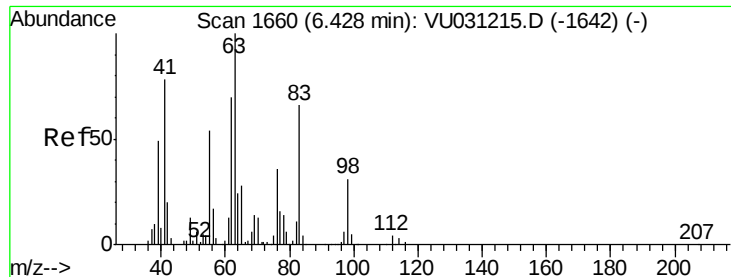


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

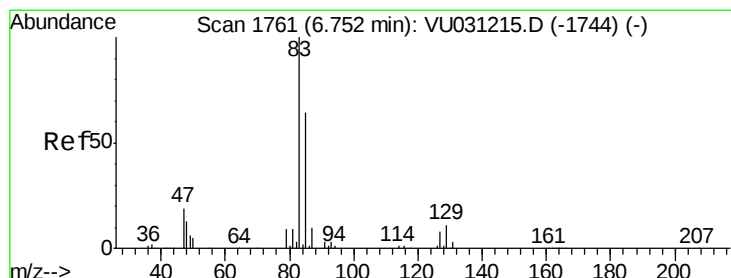
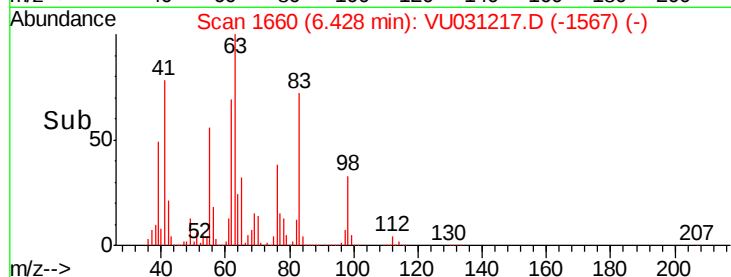
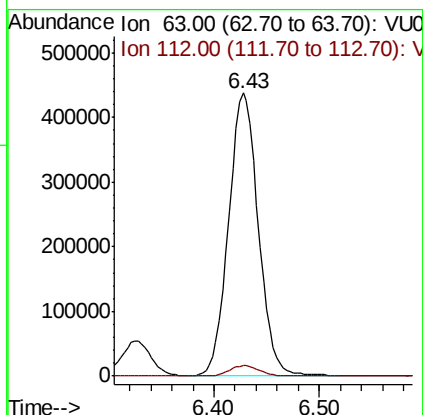
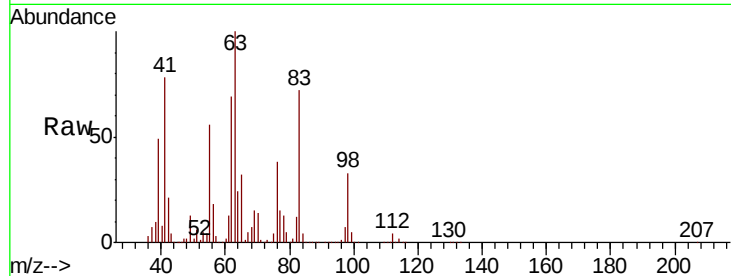




#37
 1,2-Dichloropropane
 Concen: 193.915 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. -0.00 min
 Lab File: VU031217.D
 Acq: 16 Apr 2019 17:41

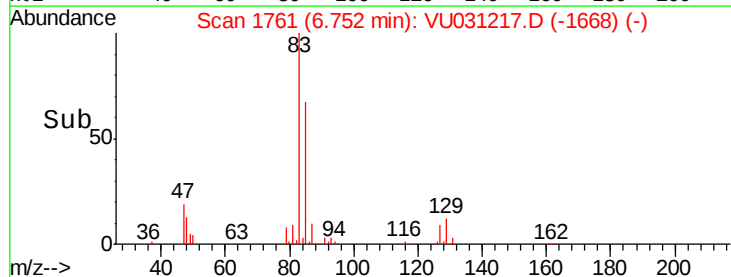
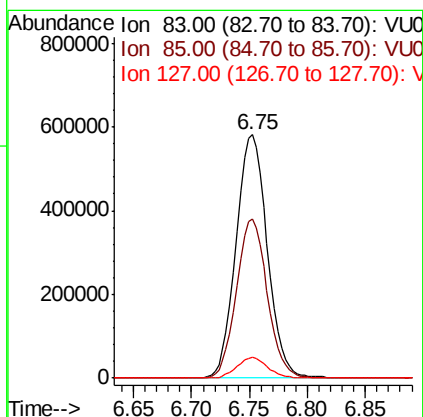
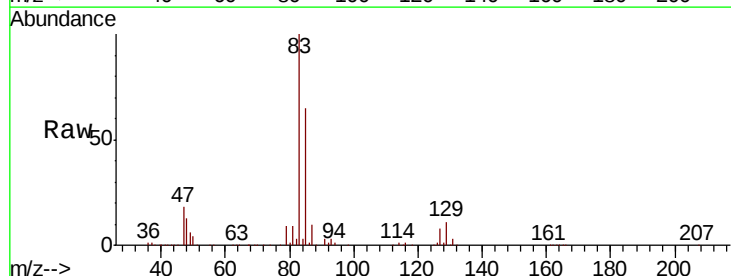
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20051

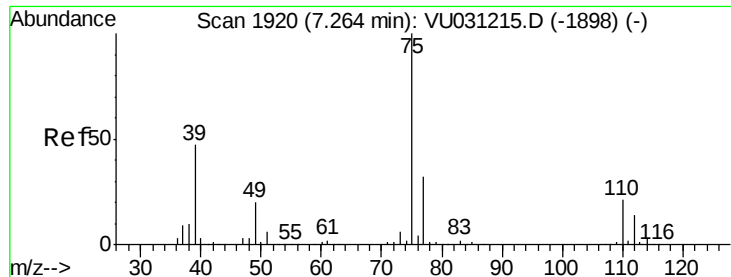
Tgt Ion: 63 Resp: 849147
 Ion Ratio Lower Upper
 63 100
 112 3.8 3.3 4.9



#38
 Bromodichloromethane
 Concen: 201.895 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. -0.00 min
 Lab File: VU031217.D
 Acq: 16 Apr 2019 17:41

Tgt Ion: 83 Resp: 1080142
 Ion Ratio Lower Upper
 83 100
 85 65.1 44.5 82.7
 127 8.4 6.6 9.8

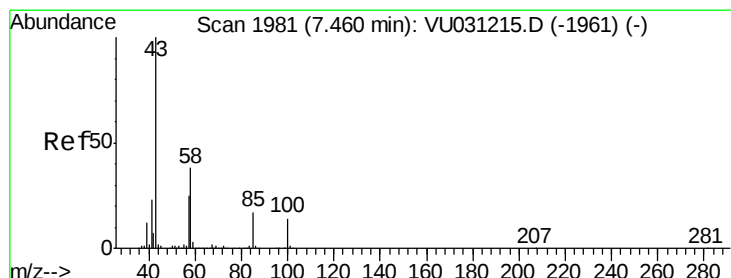
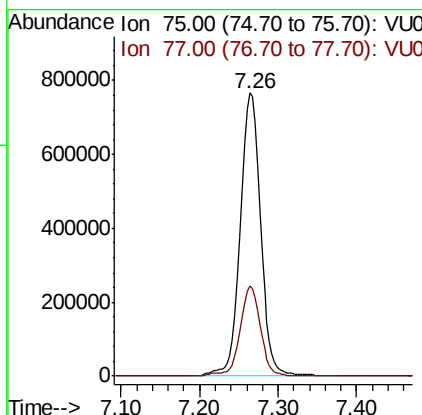
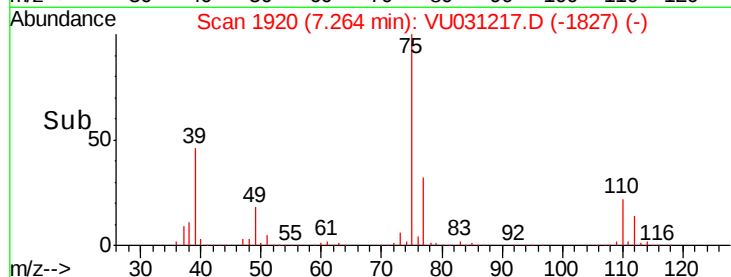
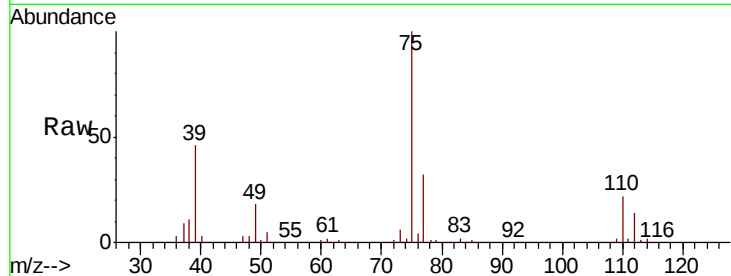




#39
 cis-1,3-Dichloropropene
 Concen: 223.054 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. -0.00 min
 Lab File: VU031217.D
 Acq: 16 Apr 2019 17:41

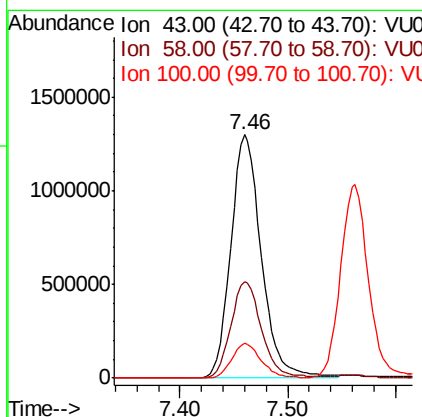
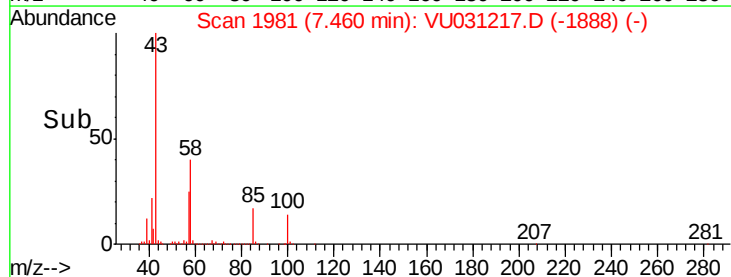
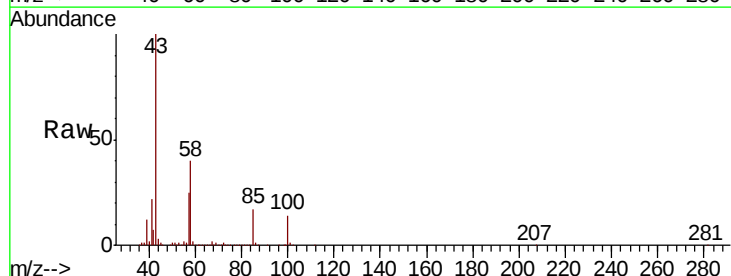
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20051

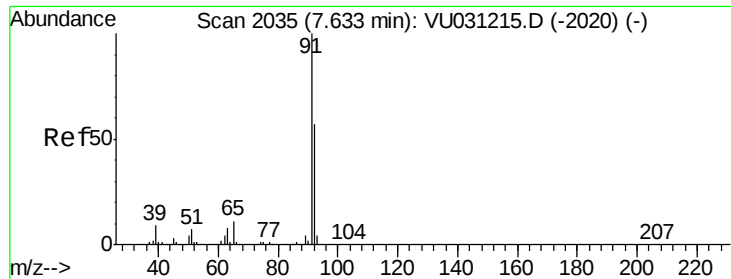
Tgt Ion: 75 Resp: 1394107
 Ion Ratio Lower Upper
 75 100
 77 31.7 22.7 42.1



#40
 4-Methyl-2-pentanone
 Concen: 373.133 ug/L
 RT: 7.46 min Scan# 1981
 Delta R.T. -0.00 min
 Lab File: VU031217.D
 Acq: 16 Apr 2019 17:41

Tgt Ion: 43 Resp: 2563779
 Ion Ratio Lower Upper
 43 100
 58 39.9 31.0 46.4
 100 13.9 10.6 16.0





#42

Toluene

Concen: 213.435 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU031217.D

Acq: 16 Apr 2019 17:41

Instrument :

MSVOA_U

ClientSampleId :

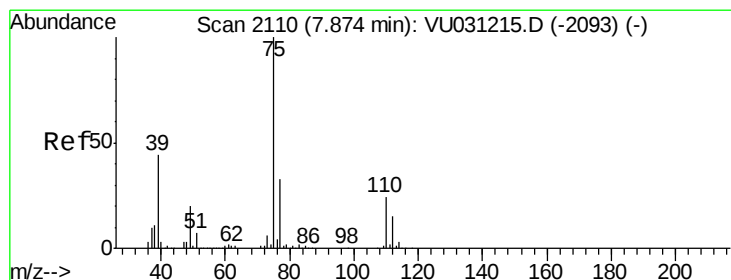
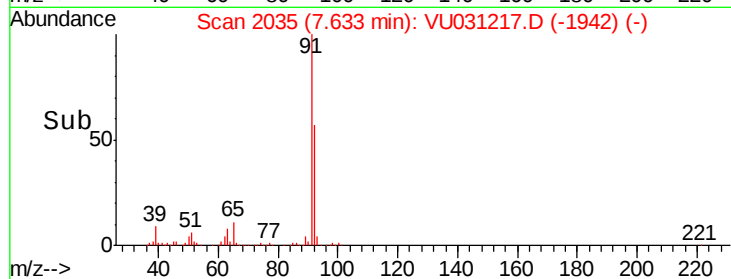
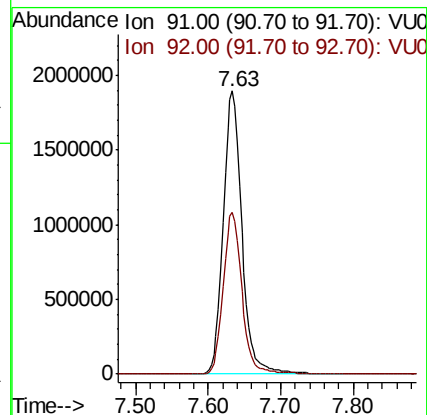
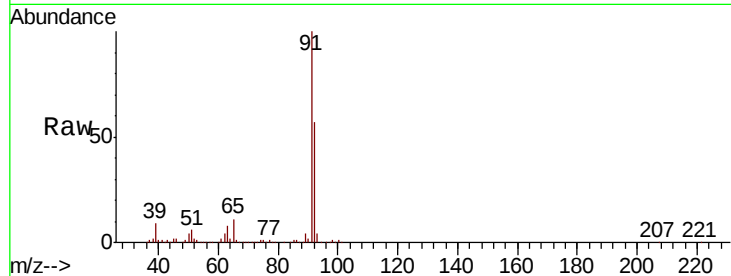
VSTD20051

Tgt Ion: 91 Resp: 3391861

Ion Ratio Lower Upper

91 100

92 57.1 40.1 74.5



#44

trans-1,3-Dichloropropene

Concen: 220.824 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VU031217.D

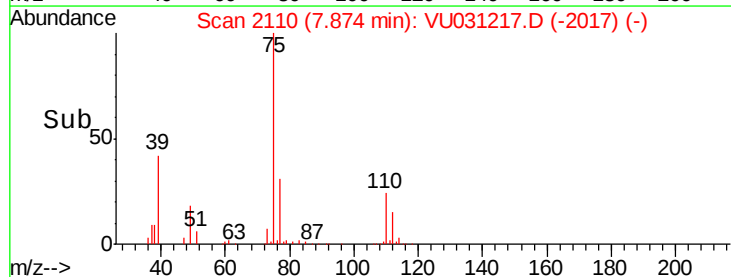
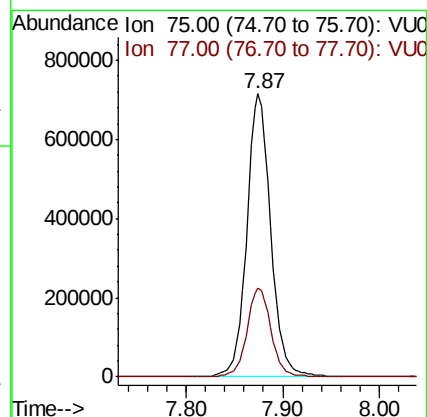
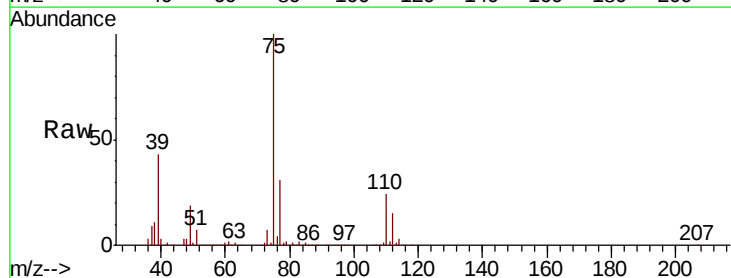
Acq: 16 Apr 2019 17:41

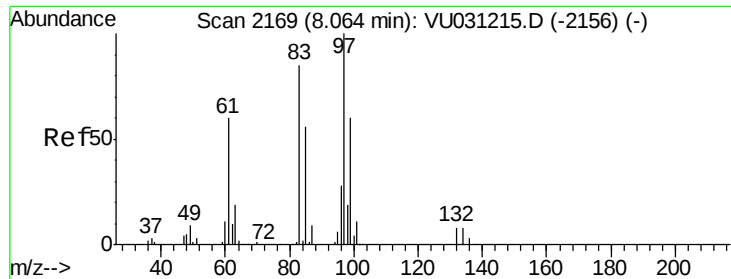
Tgt Ion: 75 Resp: 1220547

Ion Ratio Lower Upper

75 100

77 31.3 22.8 42.4

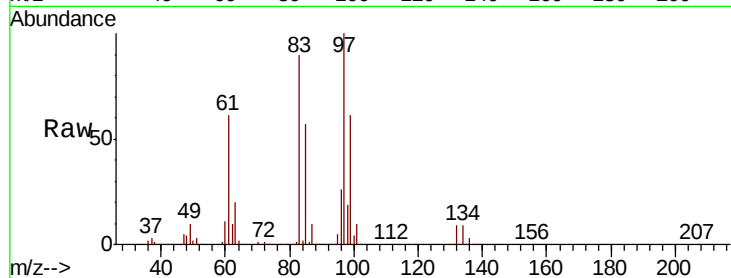




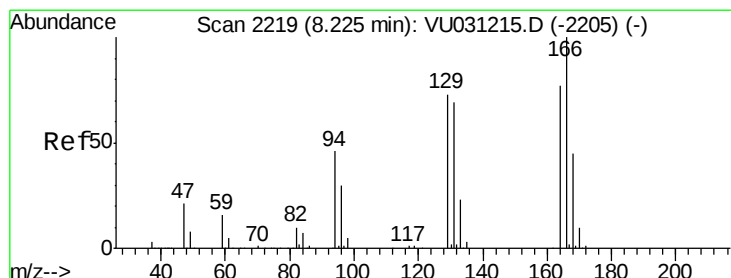
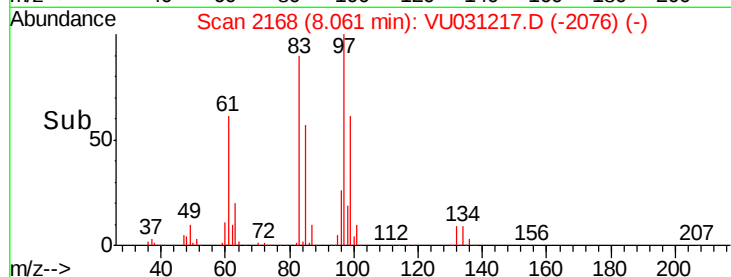
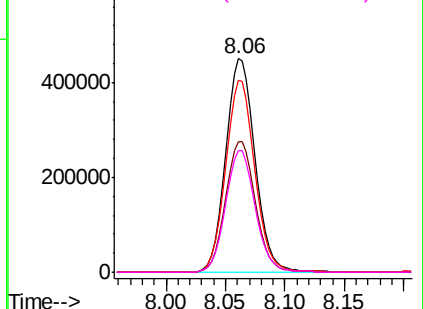
#45
 1,1,2-Trichloroethane
 Concen: 204.416 ug/L
 RT: 8.06 min Scan# 2168
 Delta R.T. -0.00 min
 Lab File: VU031217.D
 Acq: 16 Apr 2019 17:41

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20051

Tgt Ion:	97.00	Resp:	772056
Ion	Ratio	Lower	Upper
97	100		
99	61.3	42.2	78.4
83	89.8	59.8	111.1
85	57.0	39.5	73.4

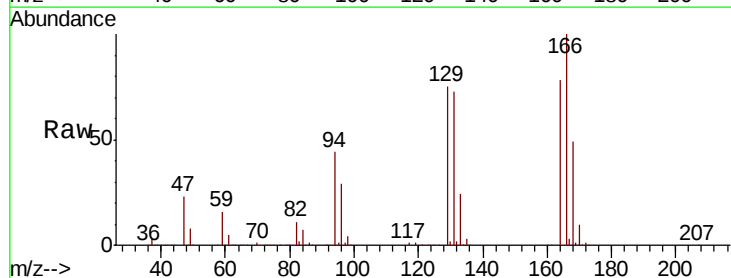


Abundance Ion 97.00 (96.70 to 97.70): VU031217.D (-2169) (-)

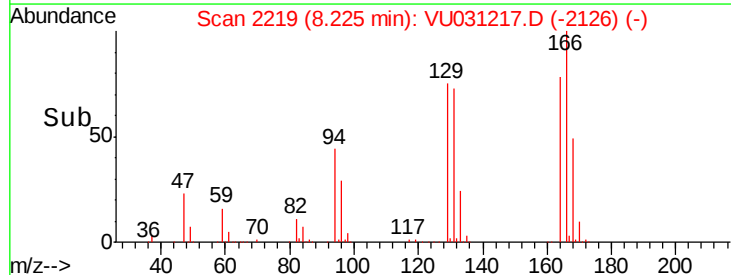
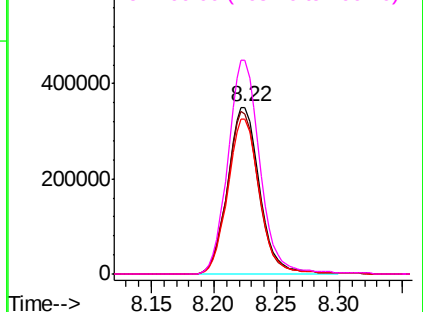


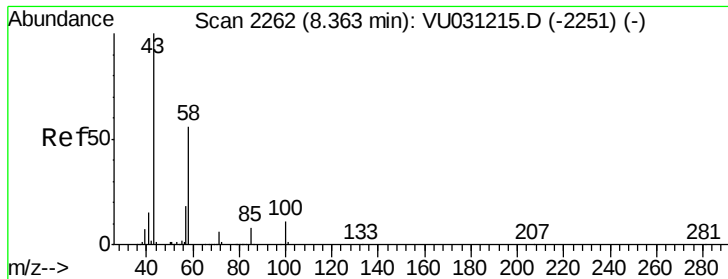
#46
 Tetrachloroethene
 Concen: 218.037 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. -0.00 min
 Lab File: VU031217.D
 Acq: 16 Apr 2019 17:41

Tgt Ion:	164	Resp:	618773
Ion	Ratio	Lower	Upper
164	100		
129	96.0	66.5	123.5
131	93.1	62.3	115.7
166	128.1	90.6	168.3



Abundance Ion 164.00 (163.70 to 164.70): VU031217.D (-2219) (-)

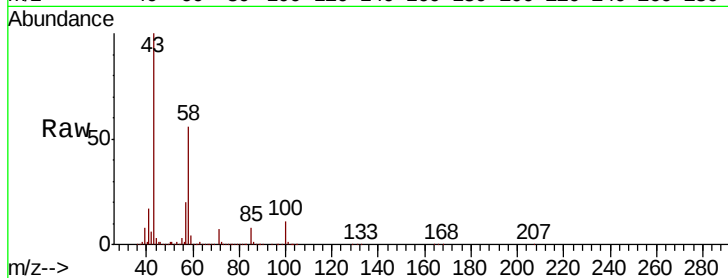




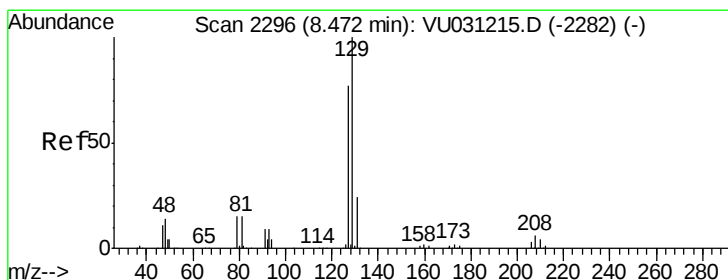
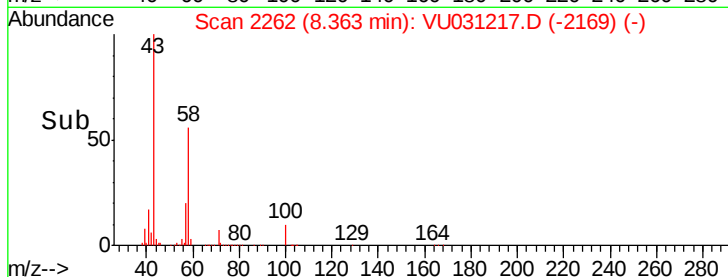
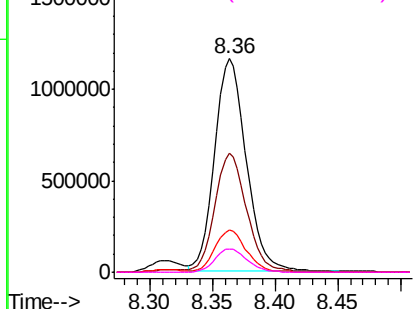
#48
2-Hexanone
Concen: 380.558 ug/L
RT: 8.36 min Scan# 2262
Delta R.T. -0.00 min
Lab File: VU031217.D
Acq: 16 Apr 2019 17:41

Instrument :
MSVOA_U
ClientSampleId :
VSTD20051

Tgt Ion: 43 Resp: 2031917
Ion Ratio Lower Upper
43 100
58 56.9 44.9 67.3
57 19.6 15.1 22.7
100 11.2 8.6 13.0

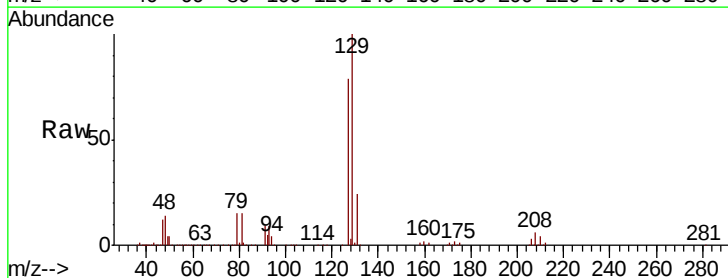


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

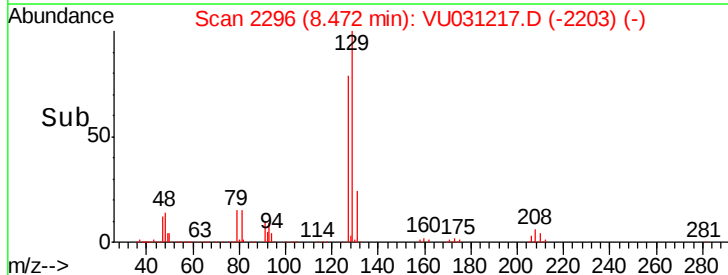
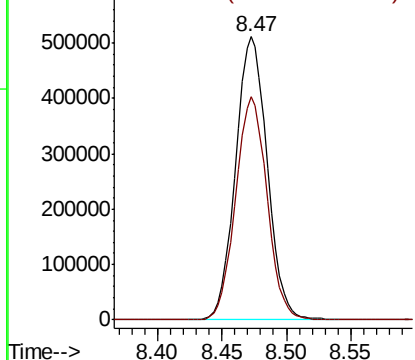


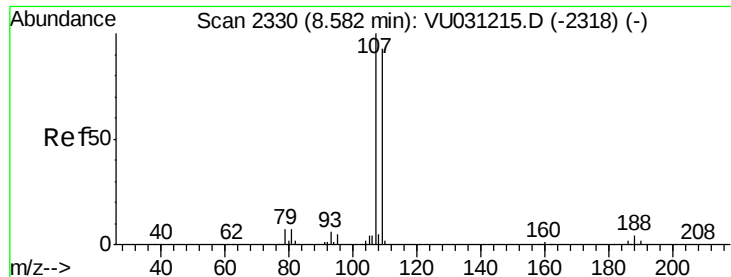
#49
Dibromochloromethane
Concen: 217.151 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU031217.D
Acq: 16 Apr 2019 17:41

Tgt Ion: 129 Resp: 871814
Ion Ratio Lower Upper
129 100
127 78.8 53.6 99.6



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

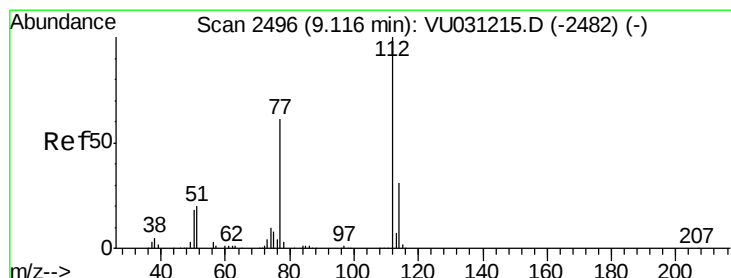
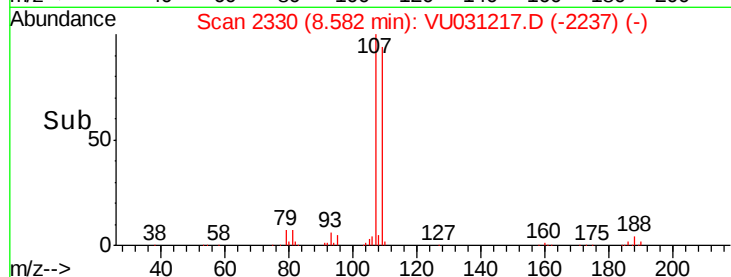
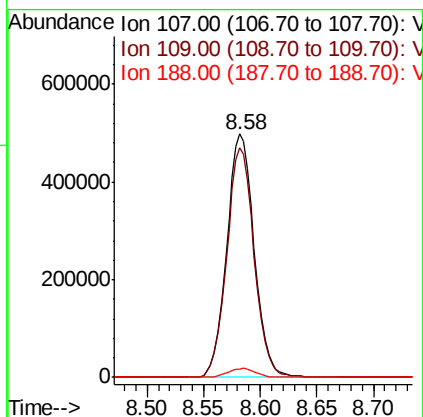
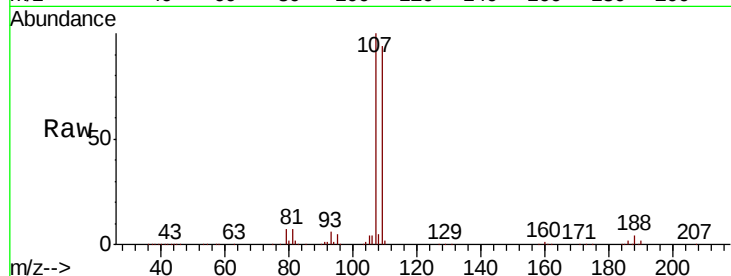




#50
1,2-Dibromoethane
Concen: 206.076 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VU031217.D
Acq: 16 Apr 2019 17:41

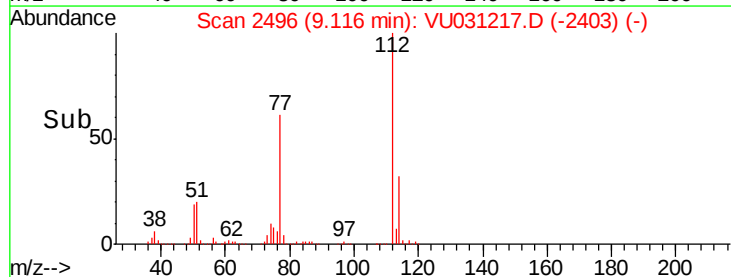
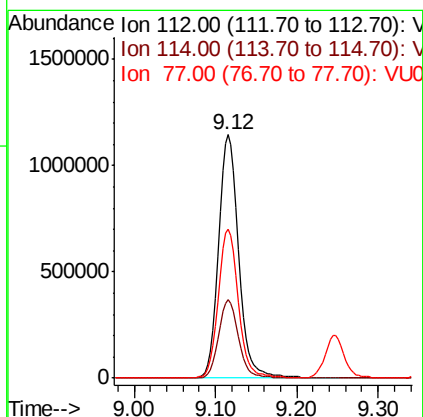
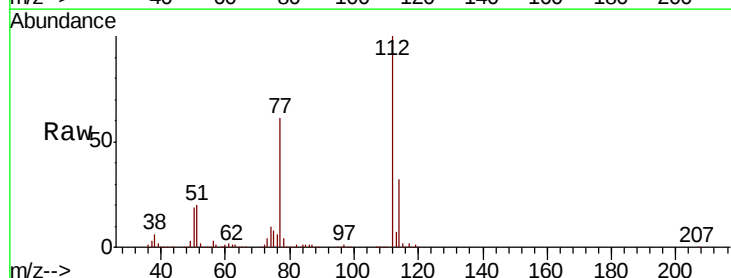
Instrument :
MSVOA_U
ClientSampleId :
VSTD20051

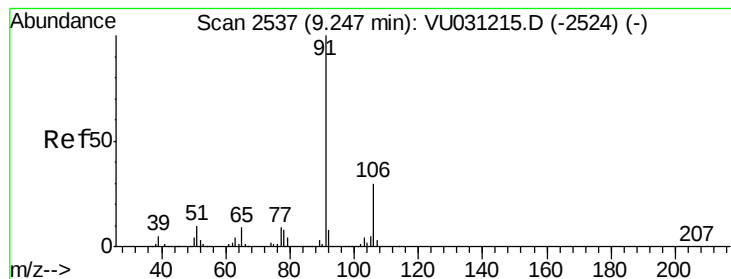
Tgt Ion	Ratio	Lower	Upper
107	100		
109	94.4	65.0	120.8
188	3.6	2.9	4.3



#51
Chlorobenzene
Concen: 203.930 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. -0.00 min
Lab File: VU031217.D
Acq: 16 Apr 2019 17:41

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.1	21.6	40.0
77	61.0	49.0	73.4





#52

Ethylbenzene

Concen: 220.667 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. -0.00 min

Lab File: VU031217.D

Acq: 16 Apr 2019 17:41

Instrument :

MSVOA_U

ClientSampleId :

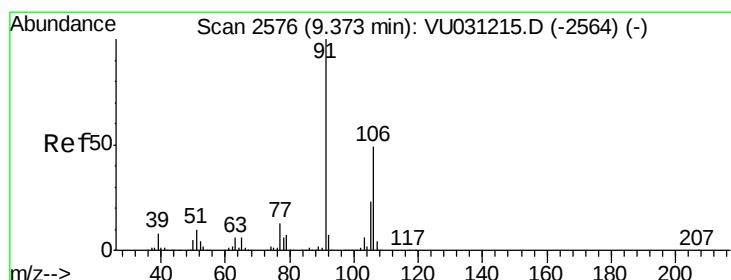
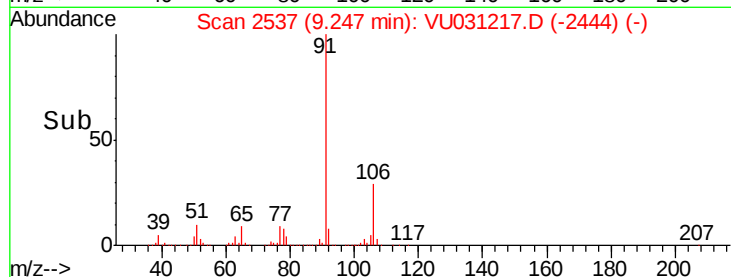
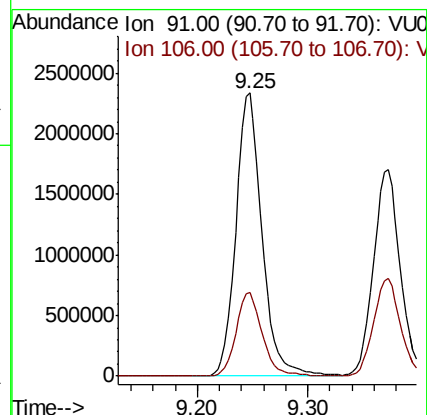
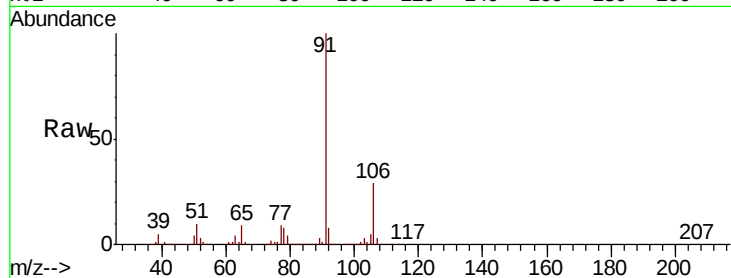
VSTD20051

Tgt Ion: 91 Resp: 3826843

Ion Ratio Lower Upper

91 100

106 29.5 20.9 38.7



#53

m,p-Xylene

Concen: 227.638 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. -0.00 min

Lab File: VU031217.D

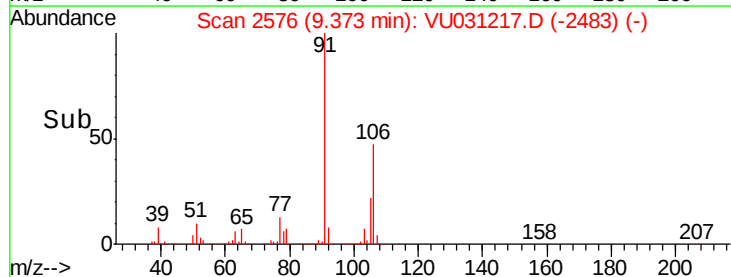
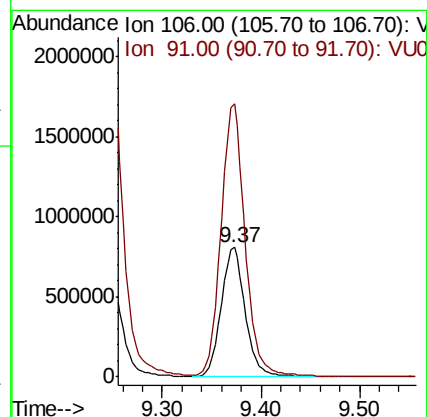
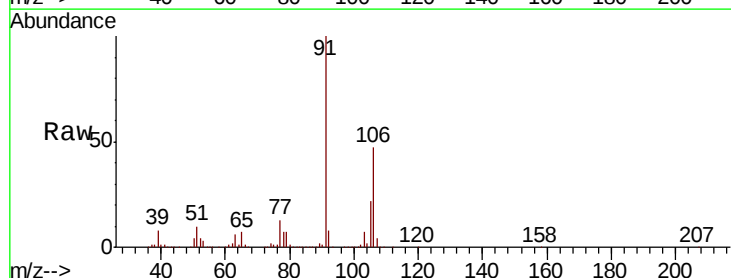
Acq: 16 Apr 2019 17:41

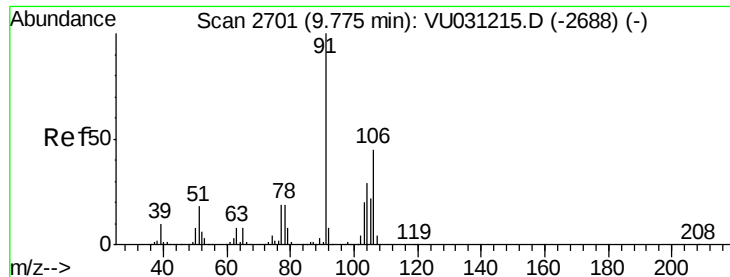
Tgt Ion: 106 Resp: 1385228

Ion Ratio Lower Upper

106 100

91 211.3 144.5 268.4





#54

o-xylene

Concen: 235.852 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU031217.D

Acq: 16 Apr 2019 17:41

Instrument :

MSVOA_U

ClientSampleId :

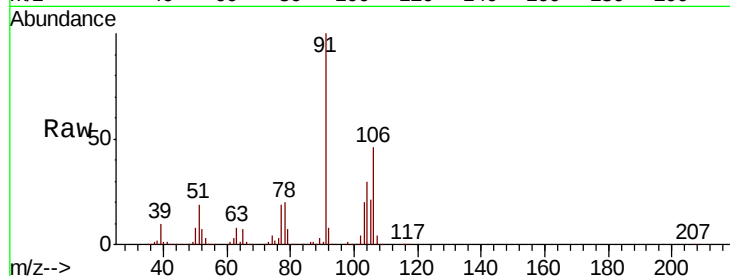
VSTD20051

Tgt Ion:106 Resp: 1429208

Ion Ratio Lower Upper

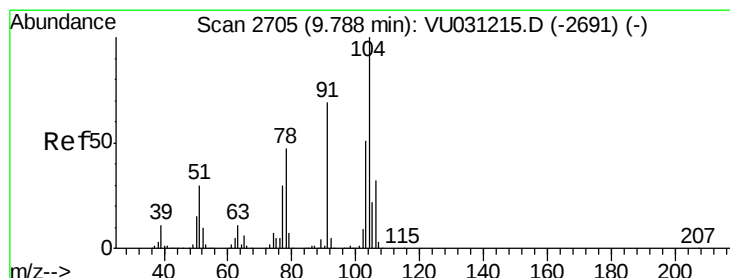
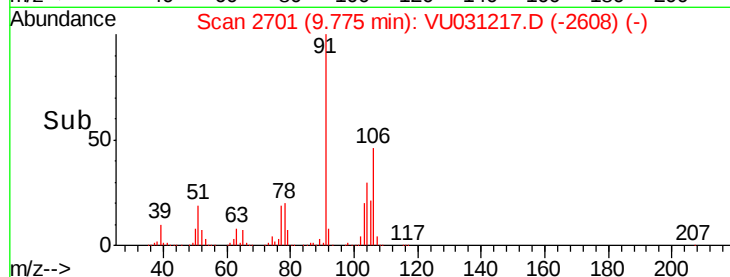
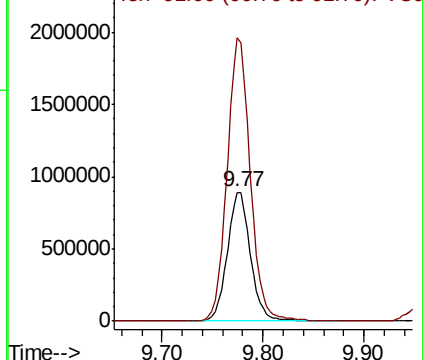
106 100

91 219.3 154.3 286.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 240.256 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. -0.00 min

Lab File: VU031217.D

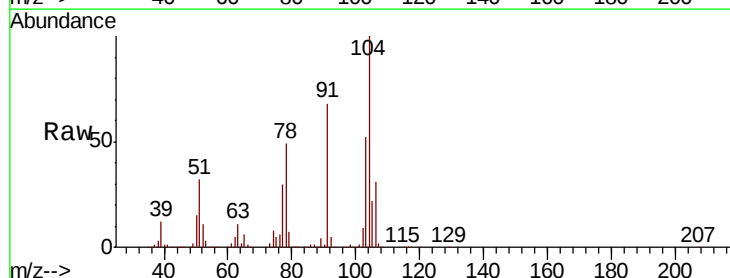
Acq: 16 Apr 2019 17:41

Tgt Ion:104 Resp: 2485390

Ion Ratio Lower Upper

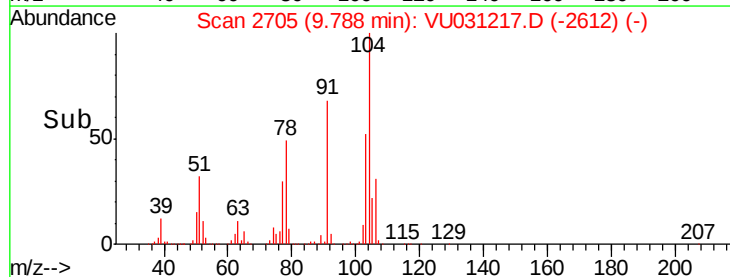
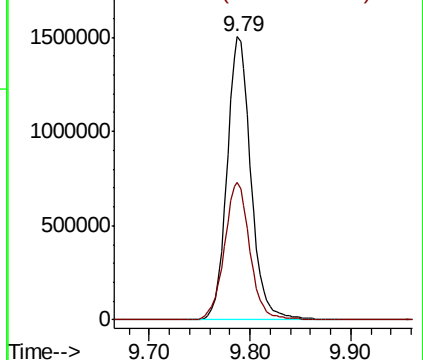
104 100

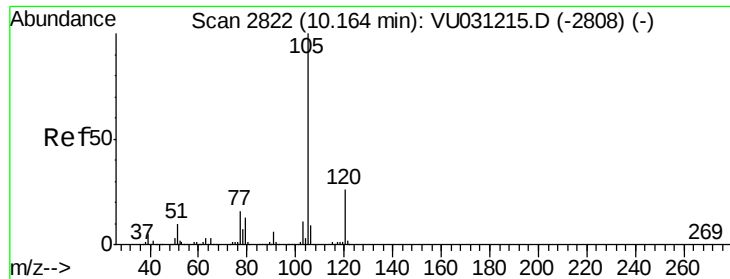
78 48.7 32.8 61.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 227.970 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU031217.D

Acq: 16 Apr 2019 17:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD20051

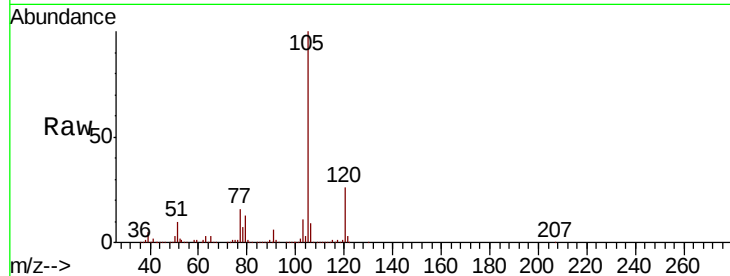
Tgt Ion:105 Resp: 3617867

Ion Ratio Lower Upper

105 100

120 25.7 20.6 31.0

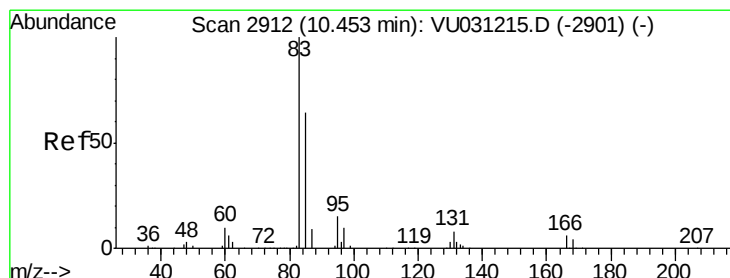
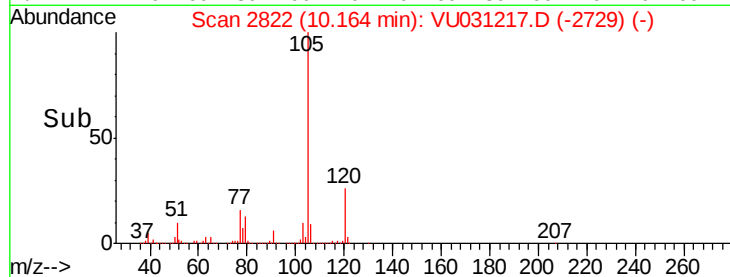
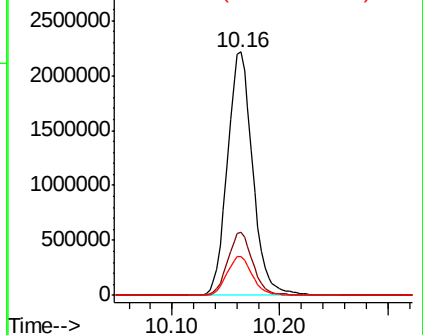
77 16.0 13.0 19.4



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: 196.166 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU031217.D

Acq: 16 Apr 2019 17:41

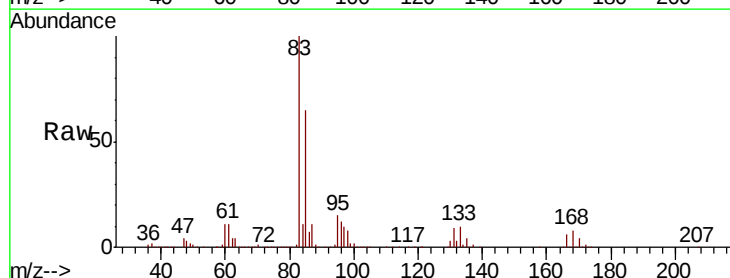
Tgt Ion: 83 Resp: 1320910

Ion Ratio Lower Upper

83 100

85 64.7 45.4 84.4

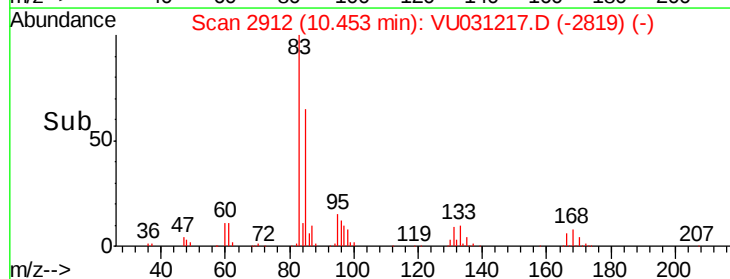
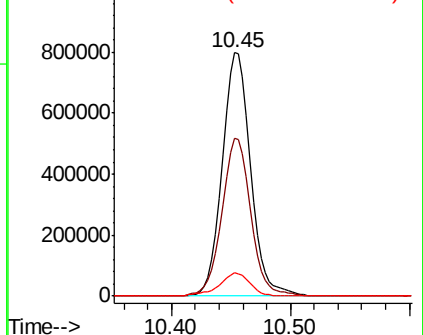
131 9.4 7.4 11.0

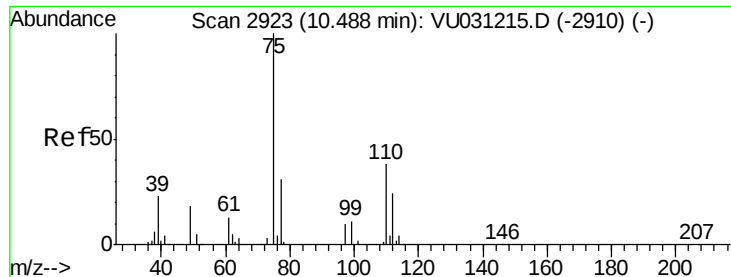


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 194.811 ug/L

RT: 10.49 min Scan# 2924

Delta R.T. 0.00 min

Lab File: VU031217.D

Acq: 16 Apr 2019 17:41

Instrument :

MSVOA_U

ClientSampleId :

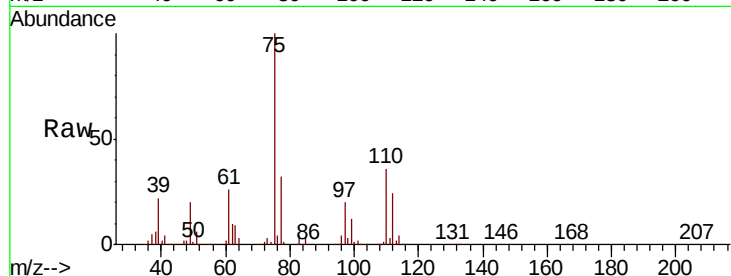
VSTD20051

Tgt Ion: 75 Resp: 1018357

Ion Ratio Lower Upper

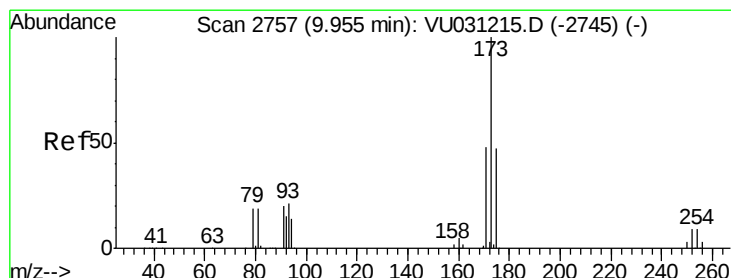
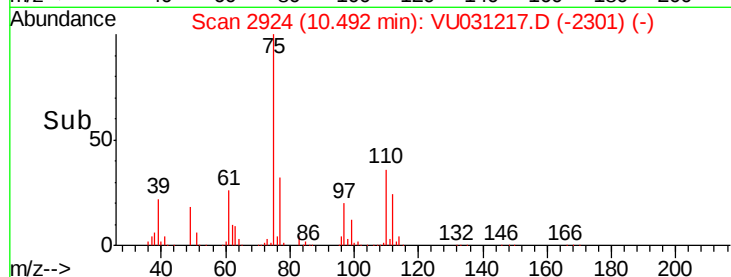
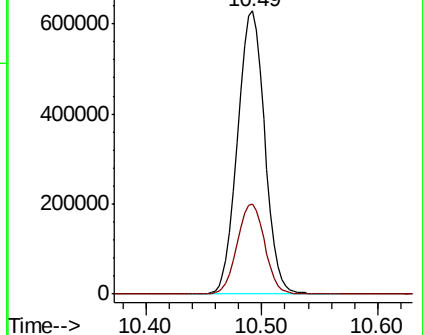
75 100

77 32.1 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VU031215.D (-2910) (-)

Ion 77.00 (76.70 to 77.70): VU031215.D (-2910) (-)



#61

Bromoform

Concen: 201.474 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. -0.00 min

Lab File: VU031217.D

Acq: 16 Apr 2019 17:41

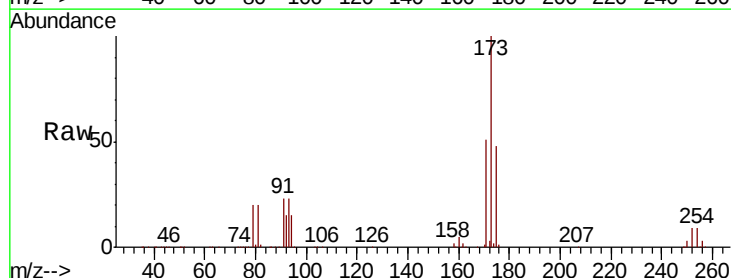
Tgt Ion: 173 Resp: 686620

Ion Ratio Lower Upper

173 100

175 48.3 37.8 56.8

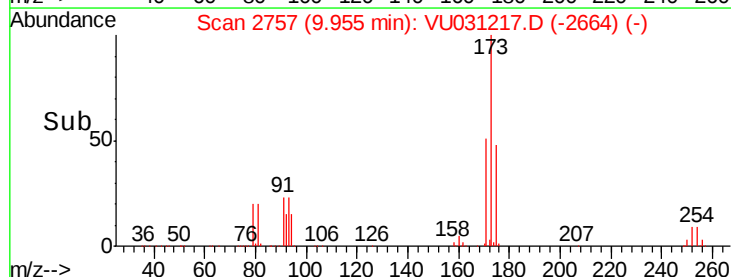
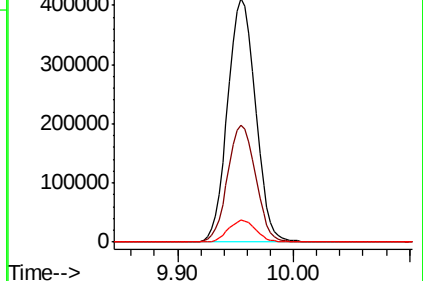
254 8.9 7.2 10.8

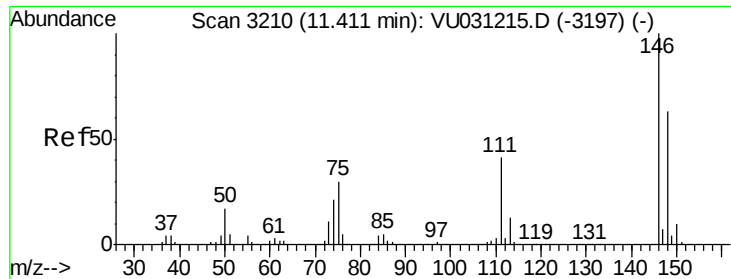


Abundance Ion 173.00 (172.70 to 173.70): VU031215.D (-2745) (-)

Ion 175.00 (174.70 to 175.70): VU031215.D (-2745) (-)

Ion 254.00 (253.70 to 254.70): VU031215.D (-2745) (-)





#62

1,3-Dichlorobenzene

Concen: 198.657 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU031217.D

Acq: 16 Apr 2019 17:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD20051

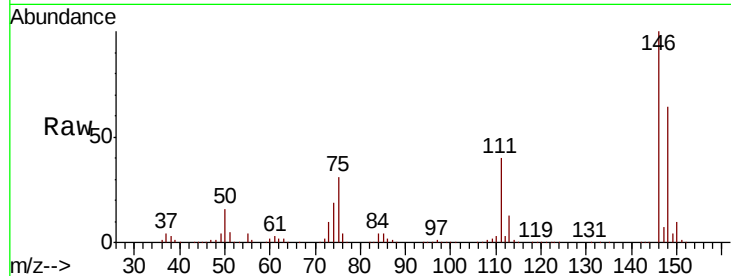
Tgt Ion:146 Resp: 1606850

Ion Ratio Lower Upper

146 100

111 40.0 28.7 53.3

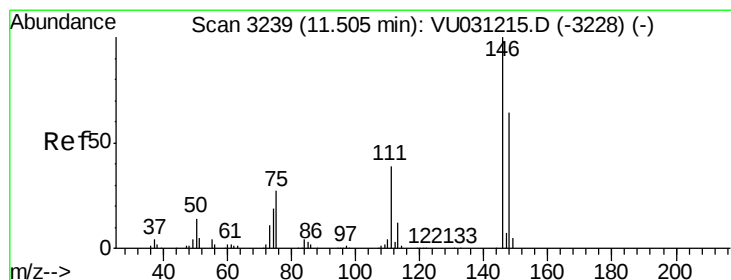
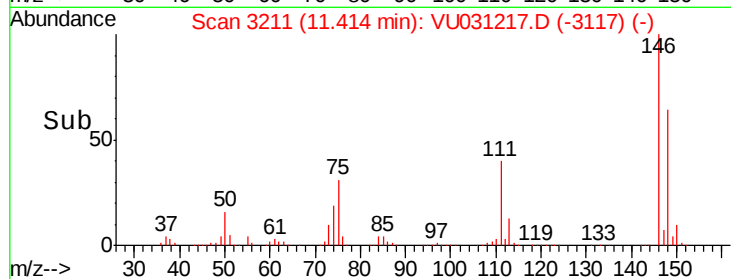
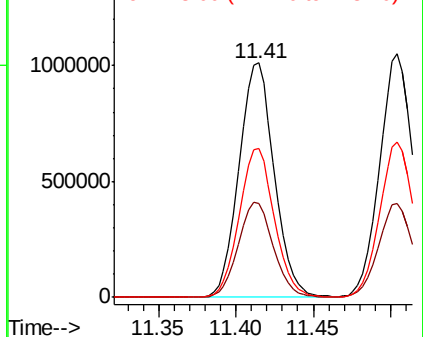
148 63.6 44.0 81.6



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



#63

1,4-Dichlorobenzene

Concen: 195.314 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. -0.00 min

Lab File: VU031217.D

Acq: 16 Apr 2019 17:41

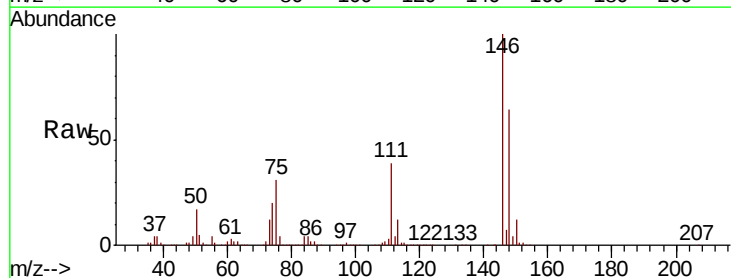
Tgt Ion:146 Resp: 1614350

Ion Ratio Lower Upper

146 100

111 38.8 27.4 50.8

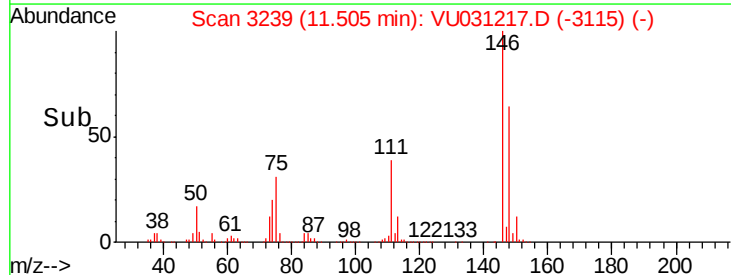
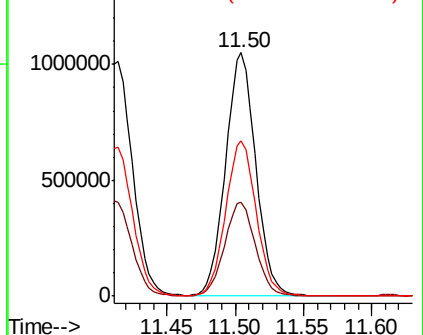
148 63.9 44.5 82.7

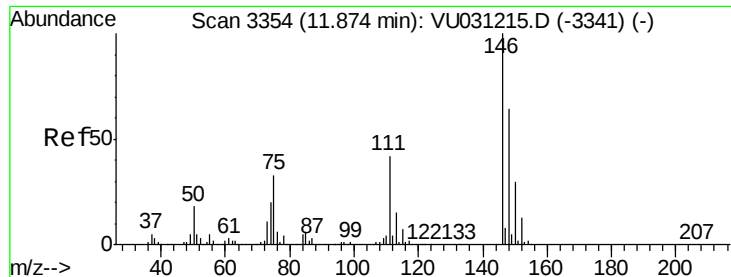


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

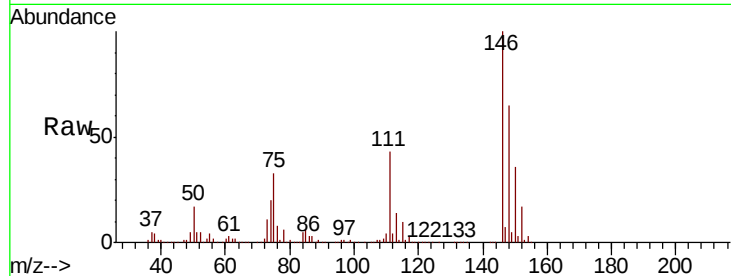




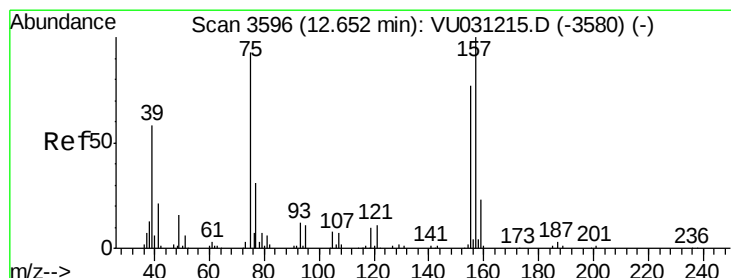
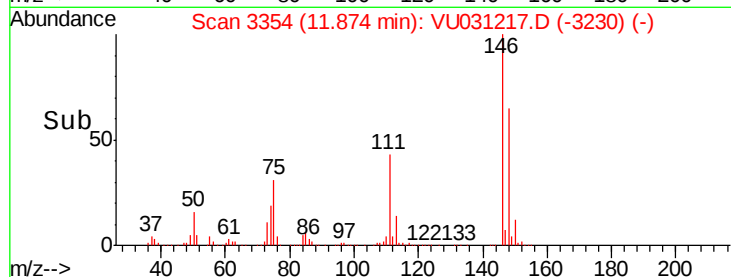
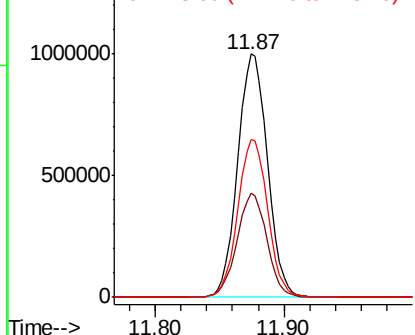
#65
 1,2-Dichlorobenzene
 Concen: 197.234 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. -0.00 min
 Lab File: VU031217.D
 Acq: 16 Apr 2019 17:41

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20051

Tgt Ion:146 Resp: 1611044
 Ion Ratio Lower Upper
 146 100
 111 42.7 33.4 50.2
 148 65.1 51.3 76.9

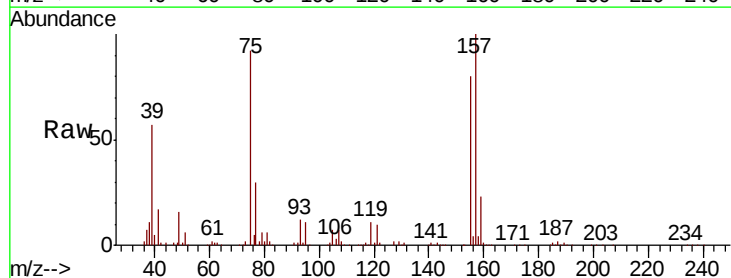


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

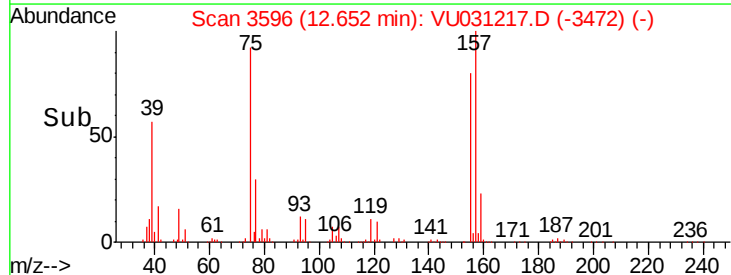
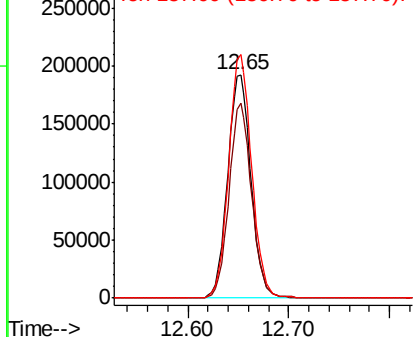


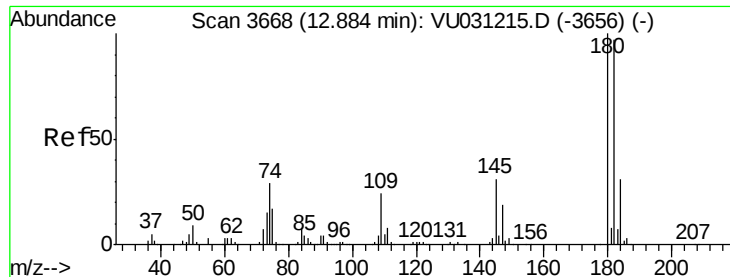
#66
 1,2-Dibromo-3-chloropropane
 Concen: 184.358 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. -0.00 min
 Lab File: VU031217.D
 Acq: 16 Apr 2019 17:41

Tgt Ion: 75 Resp: 311885
 Ion Ratio Lower Upper
 75 100
 155 87.2 66.7 100.1
 157 108.9 86.5 129.7



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

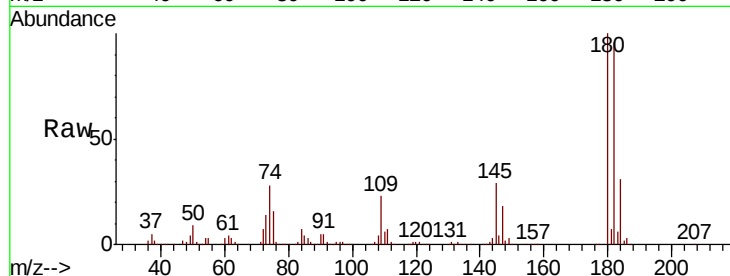




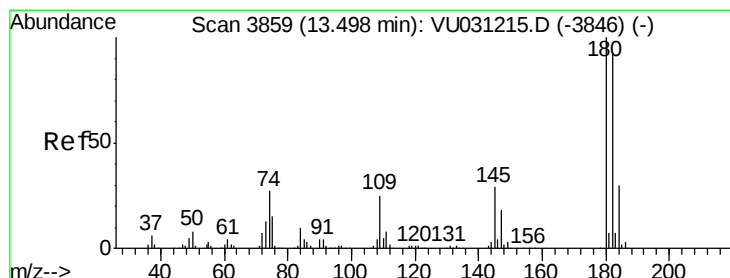
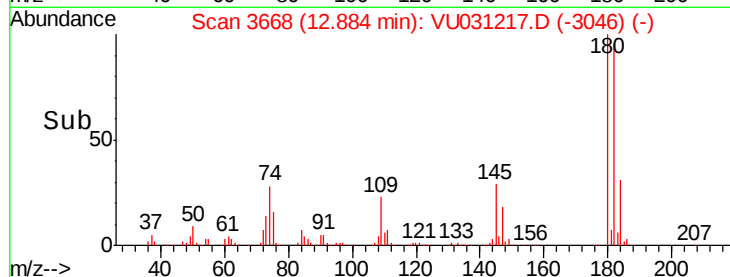
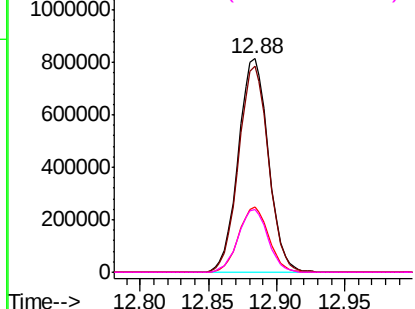
#67
 1,3,5-Trichlorobenzene
 Concen: 210.185 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. -0.00 min
 Lab File: VU031217.D
 Acq: 16 Apr 2019 17:41

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20051

Tgt Ion:180 Resp: 1251402
 Ion Ratio Lower Upper
 180 100
 182 95.7 76.7 115.1
 184 30.4 24.2 36.4
 145 29.1 23.9 35.9

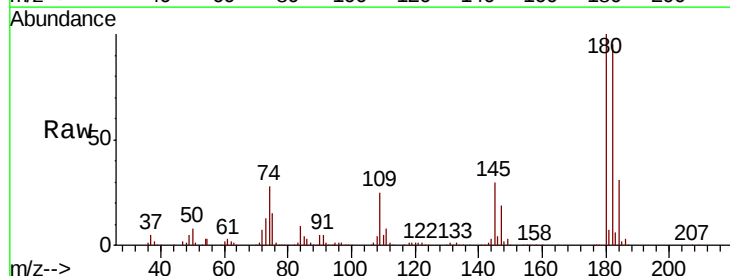


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

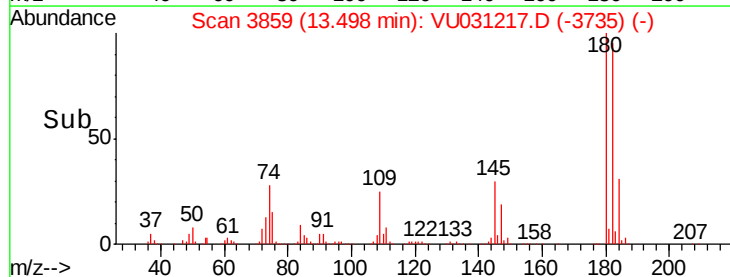
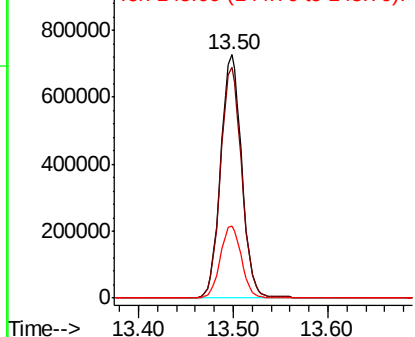


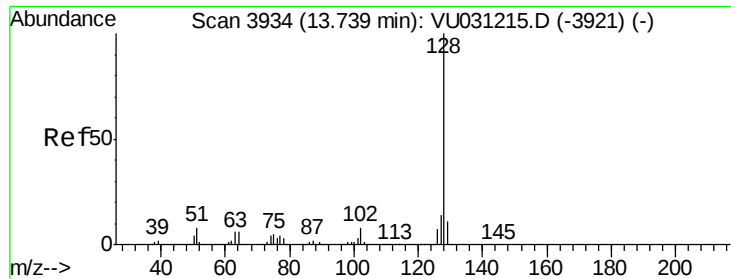
#68
 1,2,4-trichlorobenzene
 Concen: 224.300 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. -0.00 min
 Lab File: VU031217.D
 Acq: 16 Apr 2019 17:41

Tgt Ion:180 Resp: 1126672
 Ion Ratio Lower Upper
 180 100
 182 95.3 75.5 113.3
 145 29.8 23.1 34.7



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: 227.609 ug/L

RT: 13.74 min Scan# 3933

Delta R.T. -0.00 min

Lab File: VU031217.D

Acq: 16 Apr 2019 17:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD20051

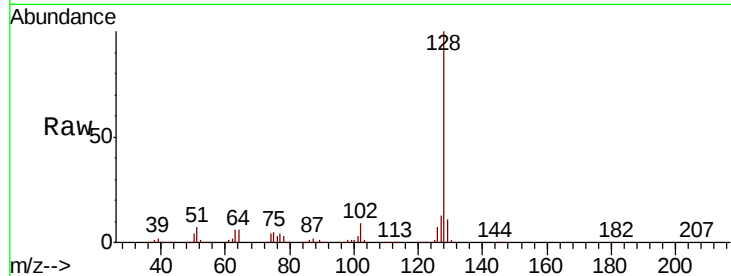
Tgt Ion:128 Resp: 3690098

Ion Ratio Lower Upper

128 100

127 13.1 10.3 15.5

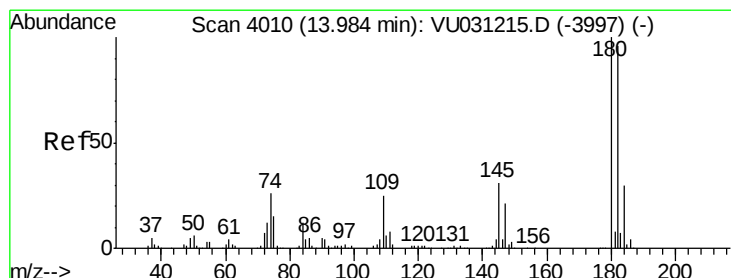
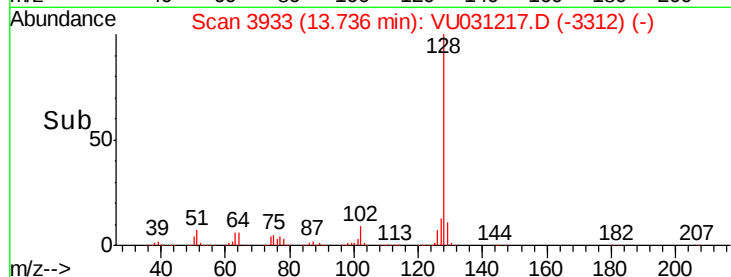
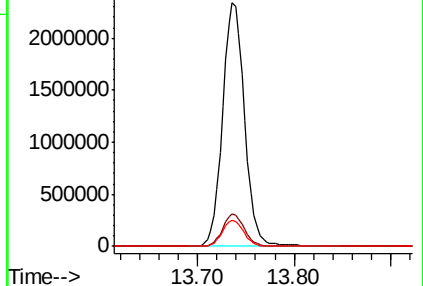
129 10.7 8.2 12.2



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: 217.137 ug/L

RT: 13.98 min Scan# 4009

Delta R.T. -0.00 min

Lab File: VU031217.D

Acq: 16 Apr 2019 17:41

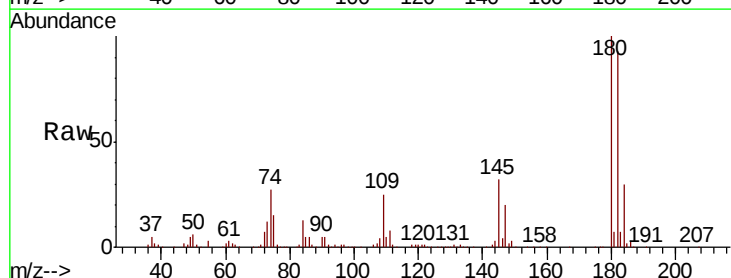
Tgt Ion:180 Resp: 1148217

Ion Ratio Lower Upper

180 100

182 94.7 78.2 117.4

145 31.4 25.0 37.6



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

