

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU041719\
 Data File : VU031216.D
 Acq On : 16 Apr 2019 17:17
 Operator : JC/SP
 Sample : VSTD10050
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10050

Quant Time: Apr 17 02:39:30 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	536794	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	507435	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	226771	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	488232	102.41	ug/L	0.00
7) Chloroethane-d5	1.68	69	419787	111.33	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	981128	111.85	ug/L	0.00
21) 2-Butanone-d5	4.18	46	722604	191.66	ug/L	0.00
24) Chloroform-d	4.64	84	796680	105.80	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	492765	98.08	ug/L	0.00
32) Benzene-d6	5.34	84	1576417	104.53	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.32	67	515955	101.50	ug/L	0.00
41) Toluene-d8	7.56	98	1454404	109.46	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	254624	109.09	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	535689	230.43	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	693368	101.28	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	563051	124.04	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	470276	99.156 ug/L	99
3) Chloromethane	1.32	50	547081	90.973 ug/L	99
5) Vinyl chloride	1.40	62	552109	95.122 ug/L	96
6) Bromomethane	1.63	94	353831	111.141 ug/L	99
8) Chloroethane	1.70	64	349257	101.811 ug/L	99
9) Trichlorofluoromethane	1.88	101	758992	107.416 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	424171	108.734 ug/L	97
12) 1,1-Dichloroethene	2.28	96	412868	110.254 ug/L	99
13) Acetone	2.34	43	582650	160.475 ug/L	99
14) Carbon disulfide	2.48	76	1103431	97.047 ug/L	100
15) Methyl Acetate	2.62	43	467165	81.615 ug/L	98
16) Methylene chloride	2.70	84	382300	86.926 ug/L	99
17) trans-1,2-Dichloroethene	2.98	96	374869	97.251 ug/L	95
18) Methyl tert-butyl Ether	2.99	73	1217031	94.807 ug/L	100
19) 1,1-Dichloroethane	3.44	63	731087	92.237 ug/L	98
20) cis-1,2-Dichloroethene	4.22	96	420808	95.902 ug/L	95
22) 2-Butanone	4.27	43	728030	165.945 ug/L	98
23) Bromochloromethane	4.54	128	207849	99.691 ug/L	97
25) Chloroform	4.67	83	728665	89.319 ug/L	97
27) 1,2-Dichloroethane	5.40	62	557715	90.077 ug/L	100
29) Cyclohexane	4.99	56	690786	95.001 ug/L	98
30) 1,1,1-Trichloroethane	4.91	97	615712	97.998 ug/L	100
31) Carbon tetrachloride	5.13	117	545182	100.603 ug/L	98
33) Benzene	5.39	78	1612591	96.663 ug/L	100
34) Trichloroethene	6.18	95	406086	99.214 ug/L	99
35) Methylcyclohexane	6.41	83	638053	102.049 ug/L	99
37) 1,2-Dichloropropane	6.43	63	432294	93.106 ug/L	99
38) Bromodichloromethane	6.75	83	545475	96.159 ug/L	99
39) cis-1,3-Dichloropropene	7.26	75	681506	102.838 ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	1281742	175.935 ug/L	98

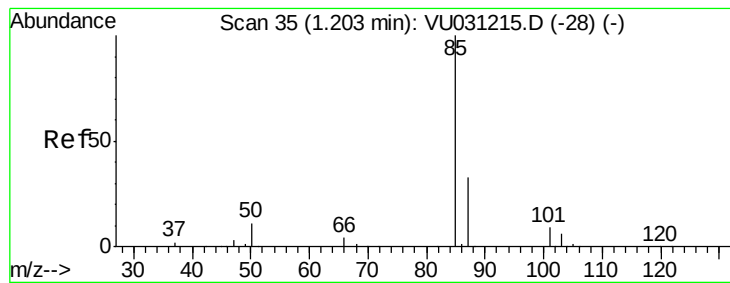
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU041719\
 Data File : VU031216.D
 Acq On : 16 Apr 2019 17:17
 Operator : JC/SP
 Sample : VSTD10050
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10050

Quant Time: Apr 17 02:39:30 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)
42) Toluene	7.63	91	1700859	100.940	ug/L	100
44) trans-1,3-Dichloropropene	7.87	75	592708	101.135	ug/L	98
45) 1,1,2-Trichloroethane	8.06	97	389037	97.146	ug/L	97
46) Tetrachloroethene	8.22	164	309631	102.899	ug/L	98
48) 2-Hexanone	8.36	43	1024988	181.052	ug/L	99
49) Dibromochloromethane	8.47	129	433002	101.718	ug/L	99
50) 1,2-Dibromoethane	8.58	107	420064	97.658	ug/L	99
51) Chlorobenzene	9.12	112	1022332	98.109	ug/L	99
52) Ethylbenzene	9.25	91	1816969	98.813	ug/L	99
53) m,p-Xylene	9.37	106	664682	103.016	ug/L	94
54) o-xylene	9.77	106	651508	101.399	ug/L	100
55) Styrene	9.79	104	1138123	103.762	ug/L	98
56) Isopropylbenzene	10.16	105	1643897	97.694	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	650581	91.122	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	491523	88.680	ug/L	99
61) Bromoform	9.95	173	295115	97.896	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	757792	105.913	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	723838	99.003	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	821304	113.671	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	164840	110.154	ug/L	95
67) 1,3,5-Trichlorobenzene	12.88	180	585346	111.145	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	491738	110.672	ug/L	99
69) Naphthalene	13.74	128	1617304	112.776	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	509875	109.005	ug/L	97

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



#2

Dichlorodifluoromethane

Concen: 99.156 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU031216.D

Acq: 16 Apr 2019 17:17

Instrument :

MSVOA_U

ClientSampleId :

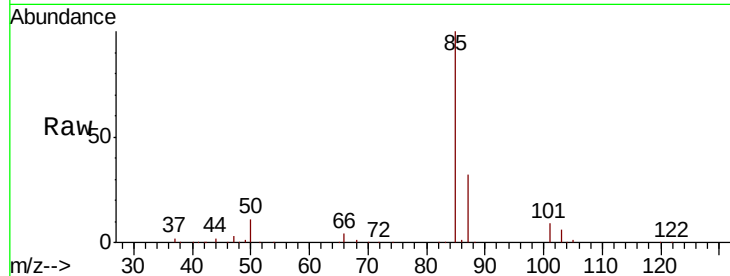
VSTD10050

Tgt Ion: 85 Resp: 470276

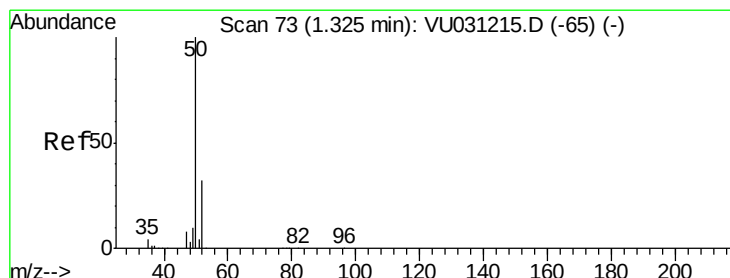
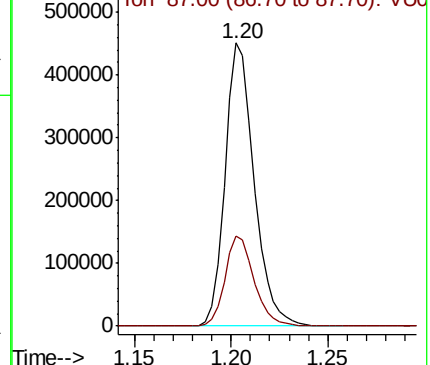
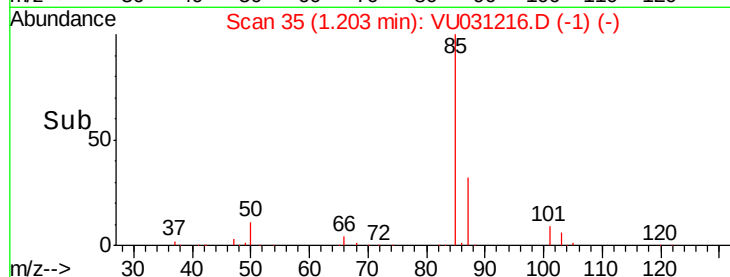
Ion Ratio Lower Upper

85 100

87 32.0 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VU031216.D (-1) (-)



#3

Chloromethane

Concen: 90.973 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU031216.D

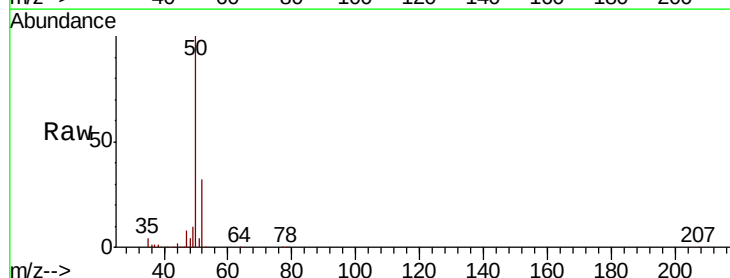
Acq: 16 Apr 2019 17:17

Tgt Ion: 50 Resp: 547081

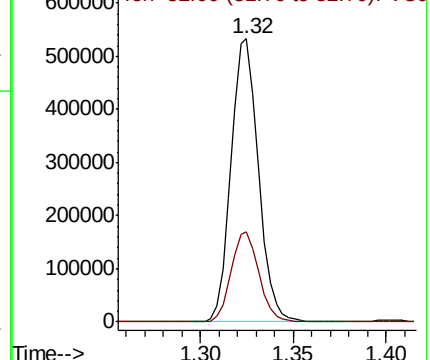
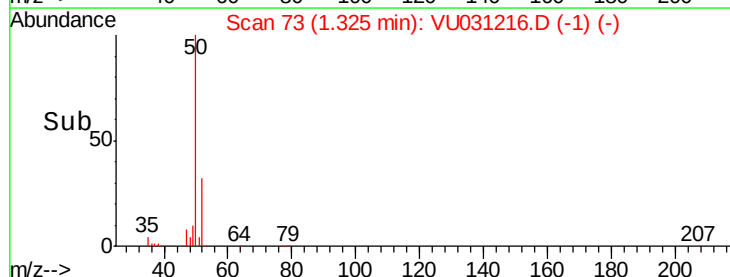
Ion Ratio Lower Upper

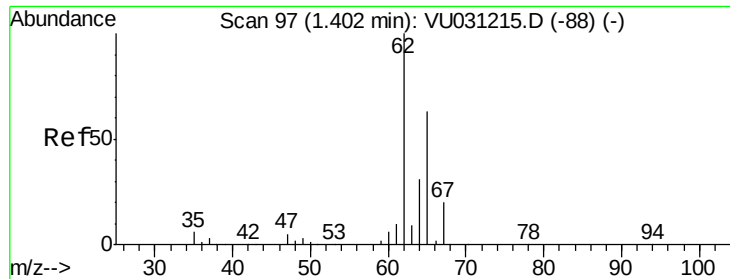
50 100

52 31.9 22.7 42.3



Abundance Ion 50.00 (49.70 to 50.70): VU031216.D (-1) (-)





#5

Vinyl chloride

Concen: 95.122 ug/L

RT: 1.40 min Scan# 97

Delta R.T. -0.00 min

Lab File: VU031216.D

Acq: 16 Apr 2019 17:17

Instrument :

MSVOA_U

ClientSampleId :

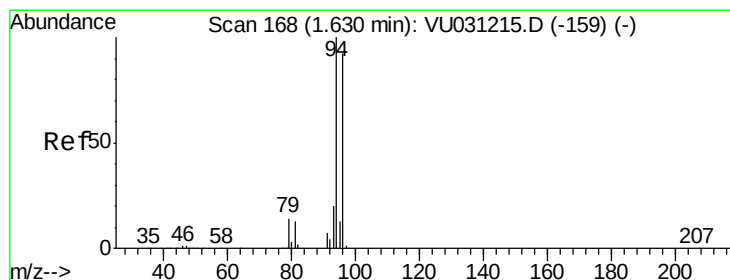
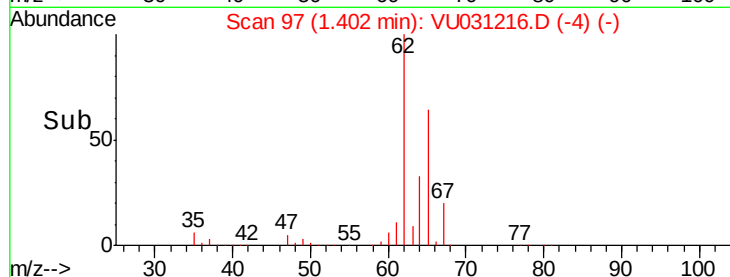
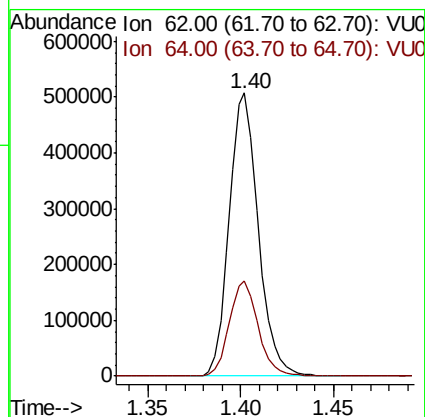
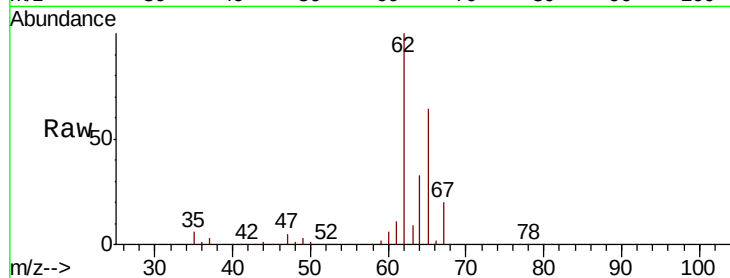
VSTD10050

Tgt Ion: 62 Resp: 552109

Ion Ratio Lower Upper

62 100

64 33.5 21.8 40.6



#6

Bromomethane

Concen: 111.141 ug/L

RT: 1.63 min Scan# 168

Delta R.T. -0.00 min

Lab File: VU031216.D

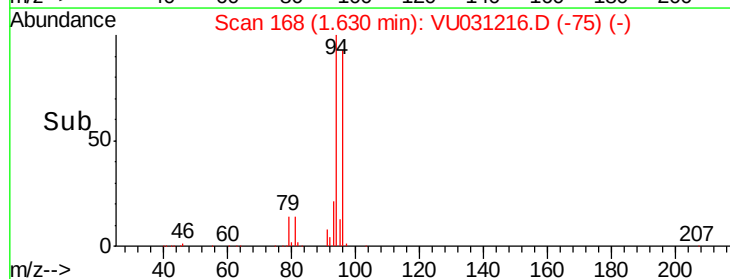
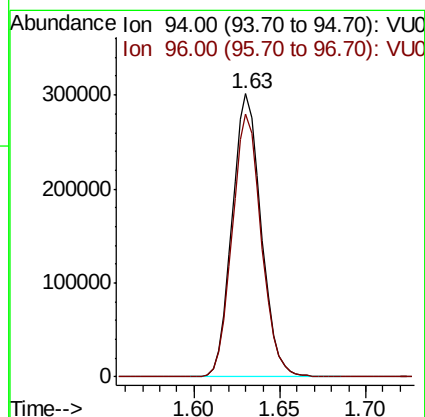
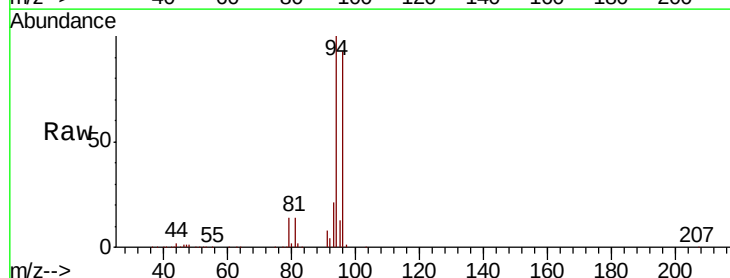
Acq: 16 Apr 2019 17:17

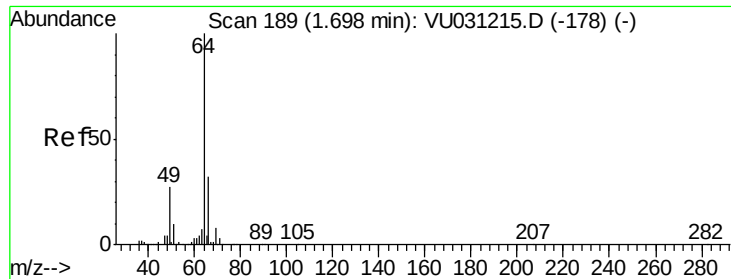
Tgt Ion: 94 Resp: 353831

Ion Ratio Lower Upper

94 100

96 92.8 64.6 120.0

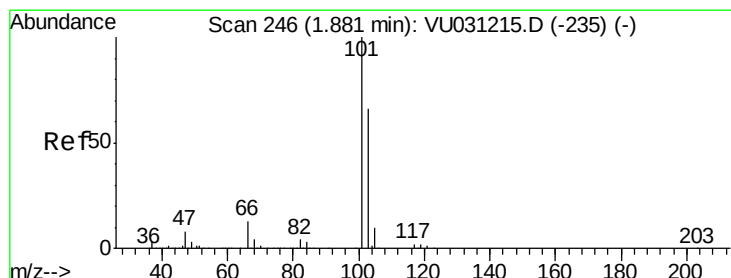
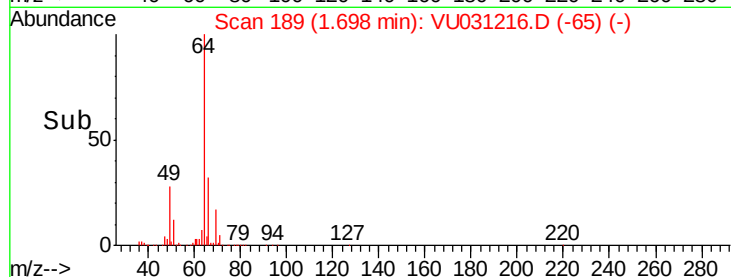
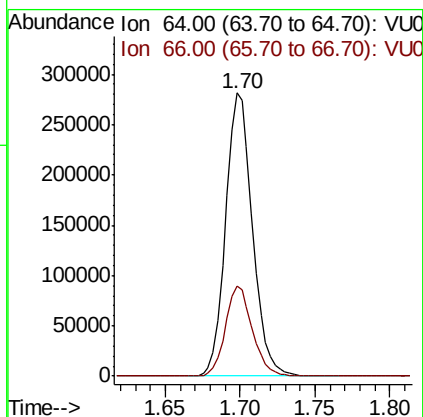
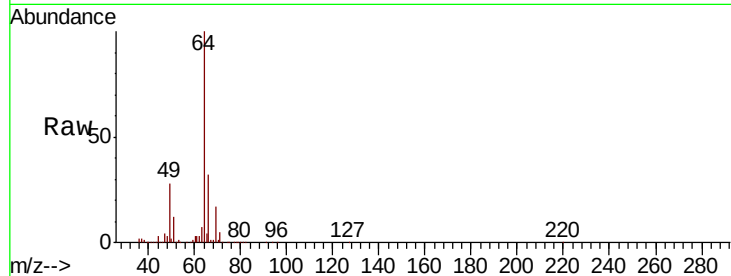




#8
Chloroethane
Concen: 101.811 ug/L
RT: 1.70 min Scan# 189
Delta R.T. -0.00 min
Lab File: VU031216.D
Acq: 16 Apr 2019 17:17

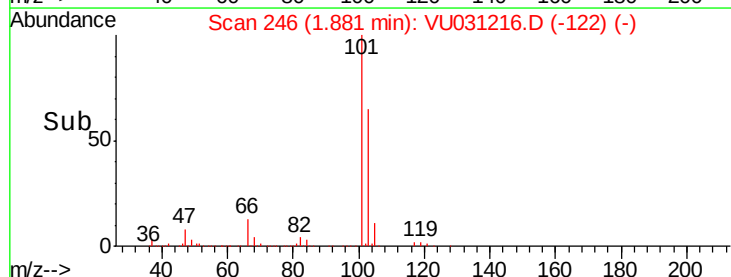
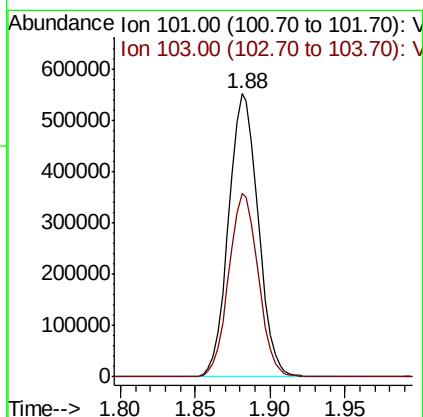
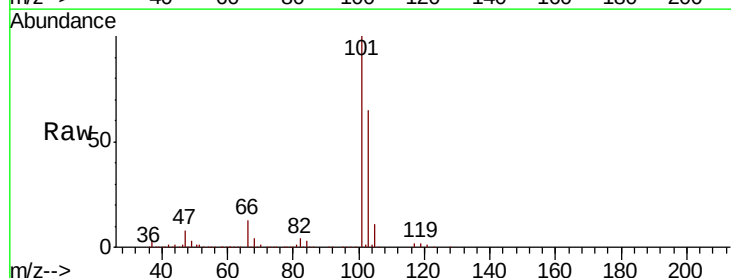
Instrument :
MSVOA_U
ClientSampleId :
VSTD10050

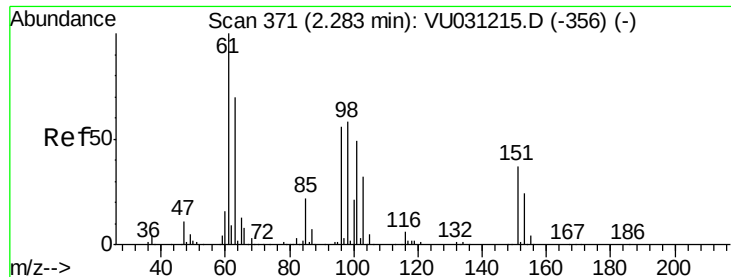
Tgt Ion: 64 Resp: 349257
Ion Ratio Lower Upper
64 100
66 31.8 22.6 42.0



#9
Trichlorofluoromethane
Concen: 107.416 ug/L
RT: 1.88 min Scan# 246
Delta R.T. -0.00 min
Lab File: VU031216.D
Acq: 16 Apr 2019 17:17

Tgt Ion: 101 Resp: 758992
Ion Ratio Lower Upper
101 100
103 64.7 53.0 79.6





#10

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

Concen: 108.734 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU031216.D

Acq: 16 Apr 2019 17:17

Instrument :

MSVOA_U

ClientSampleId :

VSTD10050

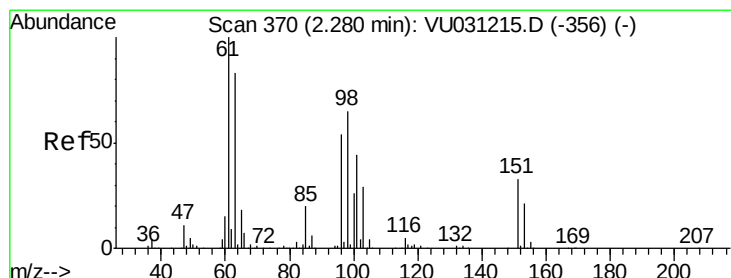
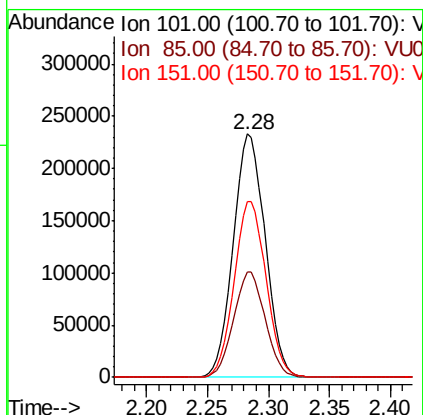
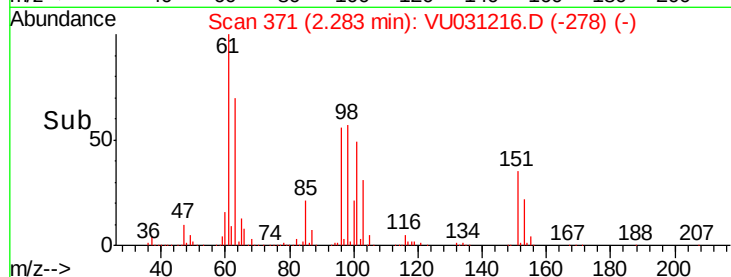
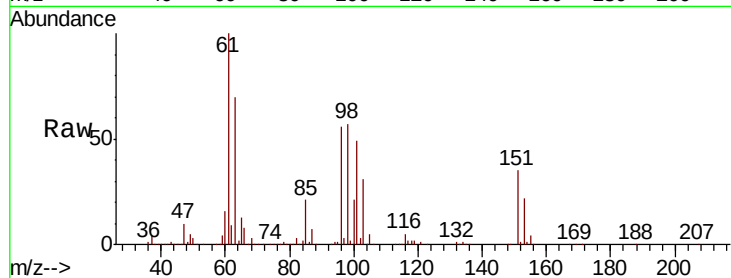
Tgt Ion:101 Resp: 424171

Ion Ratio Lower Upper

101 100

85 42.7 35.4 53.0

151 71.9 59.8 89.8



#12

1,1-Dichloroethene

Concen: 110.254 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU031216.D

Acq: 16 Apr 2019 17:17

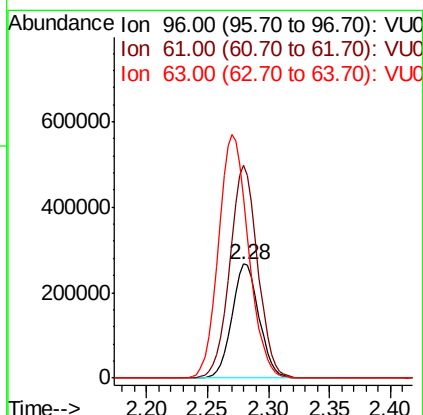
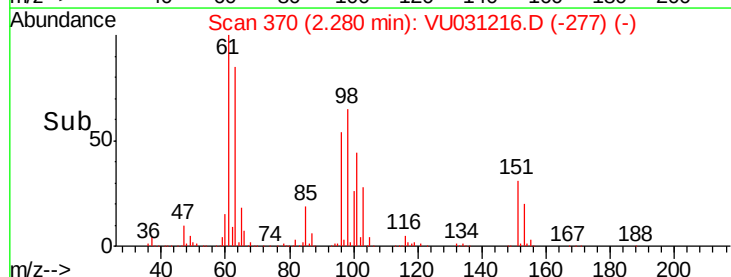
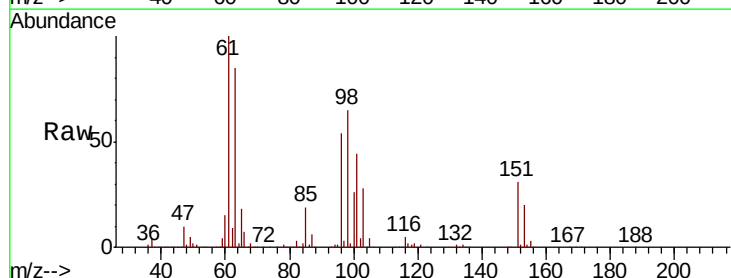
Tgt Ion: 96 Resp: 412868

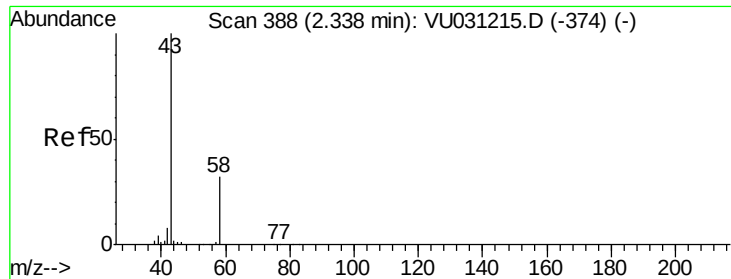
Ion Ratio Lower Upper

96 100

61 186.5 130.4 242.2

63 158.3 108.9 202.3





#13

Acetone

Concen: 160.475 ug/L

RT: 2.34 min Scan# 389

Delta R.T. 0.00 min

Lab File: VU031216.D

Acq: 16 Apr 2019 17:17

Instrument :

MSVOA_U

ClientSampleId :

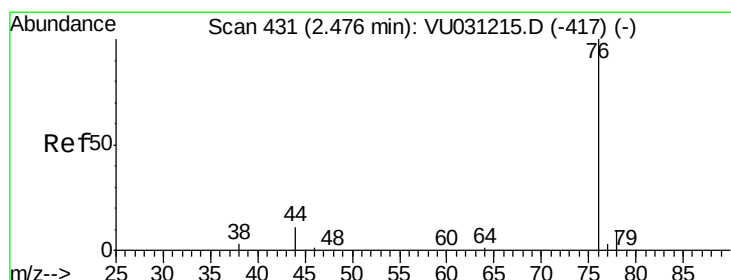
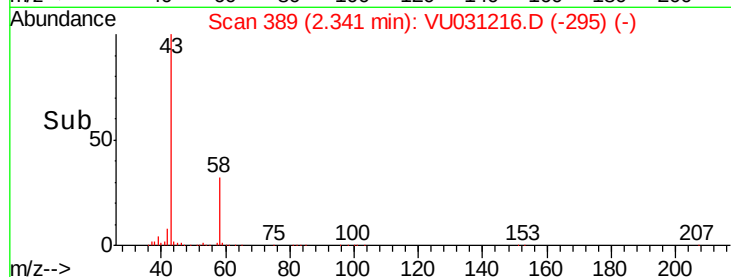
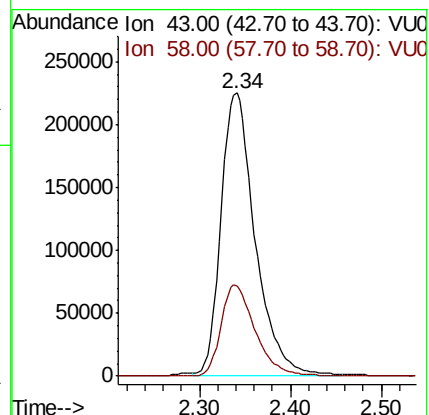
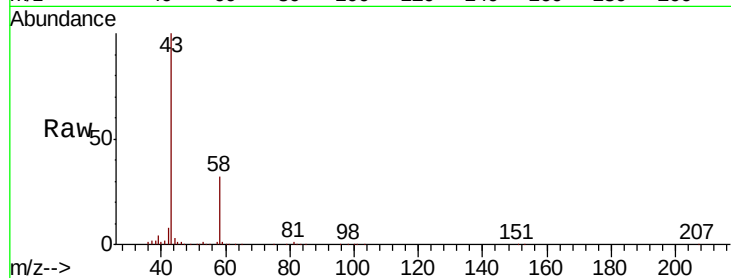
VSTD10050

Tgt Ion: 43 Resp: 582650

Ion Ratio Lower Upper

43 100

58 32.0 0.0 65.0



#14

Carbon disulfide

Concen: 97.047 ug/L

RT: 2.48 min Scan# 431

Delta R.T. -0.00 min

Lab File: VU031216.D

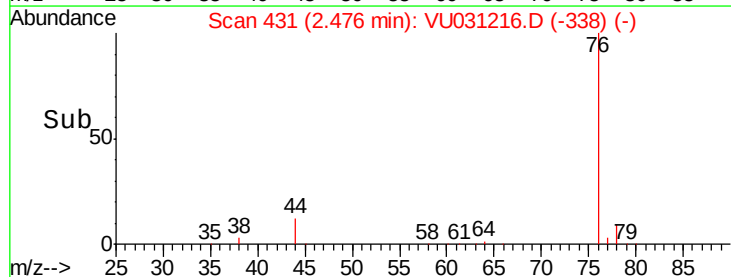
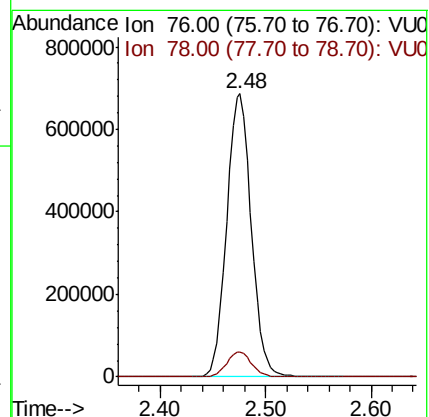
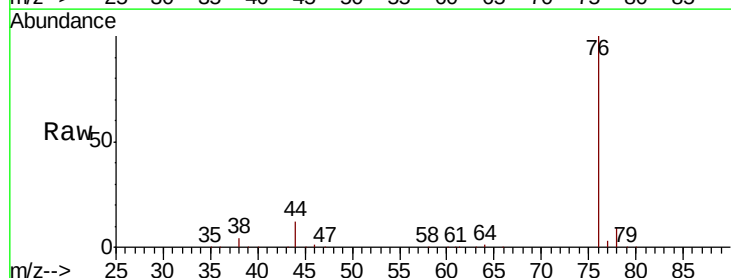
Acq: 16 Apr 2019 17:17

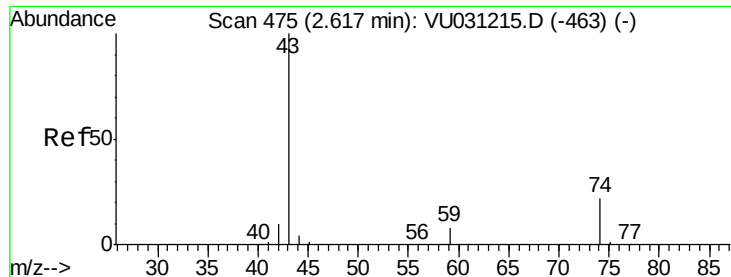
Tgt Ion: 76 Resp: 1103431

Ion Ratio Lower Upper

76 100

78 9.0 7.2 10.8





#15

Methyl Acetate

Concen: 81.615 ug/L

RT: 2.62 min Scan# 475

Delta R.T. -0.00 min

Lab File: VU031216.D

Acq: 16 Apr 2019 17:17

Instrument :

MSVOA_U

ClientSampleId :

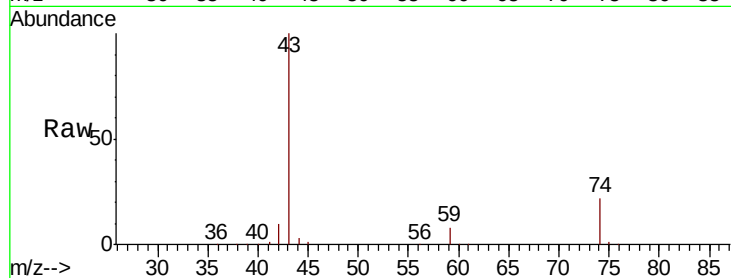
VSTD10050

Tgt Ion: 43 Resp: 467165

Ion Ratio Lower Upper

43 100

74 22.0 18.3 27.5



Abundance Ion 43.00 (42.70 to 43.70): VU031216.D (-382) (-)

Ion 74.00 (73.70 to 74.70): VU031216.D (-382) (-)

2.62

250000

200000

150000

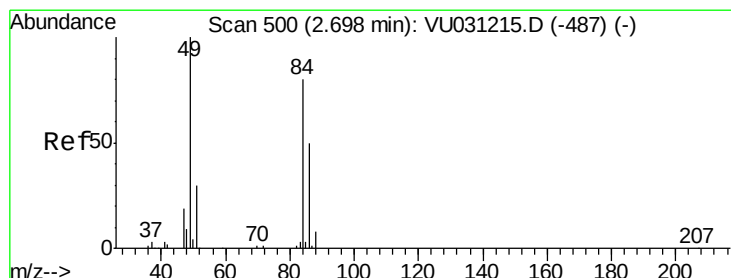
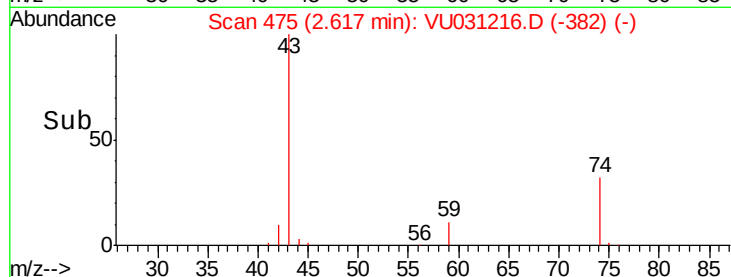
100000

50000

0

Time-->

2.60 2.70



#16

Methylene chloride

Concen: 86.926 ug/L

RT: 2.70 min Scan# 500

Delta R.T. -0.00 min

Lab File: VU031216.D

Acq: 16 Apr 2019 17:17

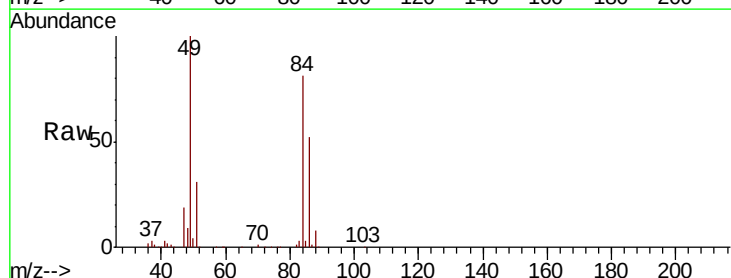
Tgt Ion: 84 Resp: 382300

Ion Ratio Lower Upper

84 100

86 64.2 44.0 81.8

49 124.1 88.0 163.4



Abundance Ion 84.00 (83.70 to 84.70): VU031216.D (-407) (-)

Ion 86.00 (85.70 to 86.70): VU031216.D (-407) (-)

Ion 49.00 (48.70 to 49.70): VU031216.D (-407) (-)

2.70

300000

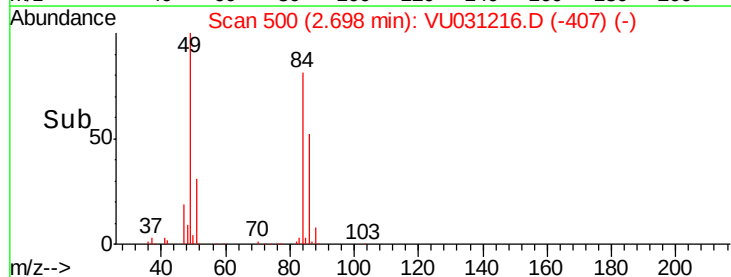
200000

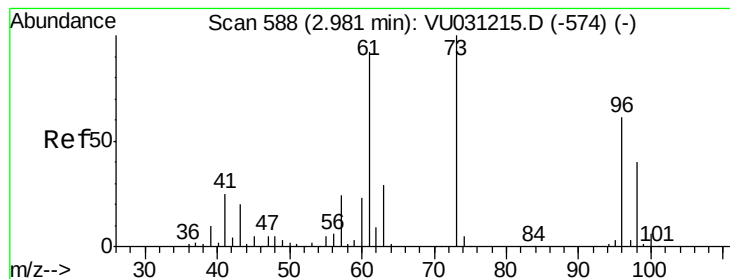
100000

0

Time-->

2.60 2.70 2.80





#17

trans-1,2-Dichloroethene

Concen: 97.251 ug/L

RT: 2.98 min Scan# 588

Delta R.T. -0.00 min

Lab File: VU031216.D

Acq: 16 Apr 2019 17:17

Instrument :

MSVOA_U

ClientSampleId :

VSTD10050

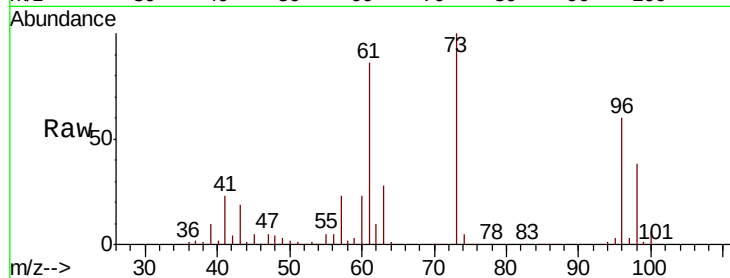
Tgt Ion: 96 Resp: 374869

Ion Ratio Lower Upper

96 100

61 143.1 105.5 195.9

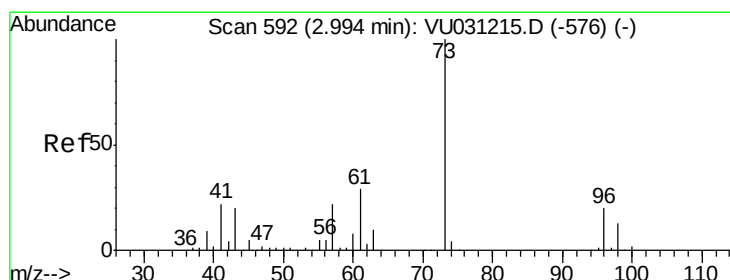
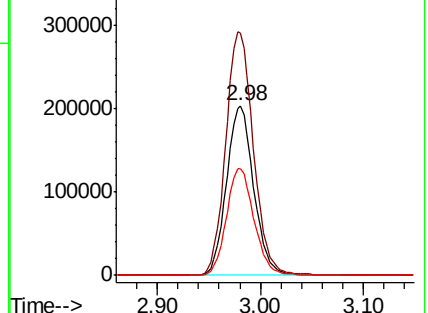
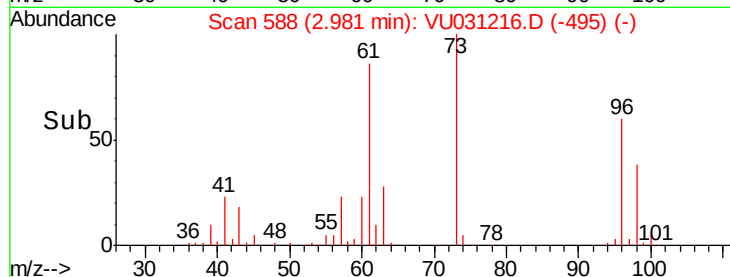
98 63.0 45.4 84.4



Abundance Ion 96.00 (95.70 to 96.70): VU031216.D (-495) (-)

Ion 61.00 (60.70 to 61.70): VU031216.D (-495) (-)

Ion 98.00 (97.70 to 98.70): VU031216.D (-495) (-)



#18

Methyl tert-butyl Ether

Concen: 94.807 ug/L

RT: 2.99 min Scan# 592

Delta R.T. -0.00 min

Lab File: VU031216.D

Acq: 16 Apr 2019 17:17

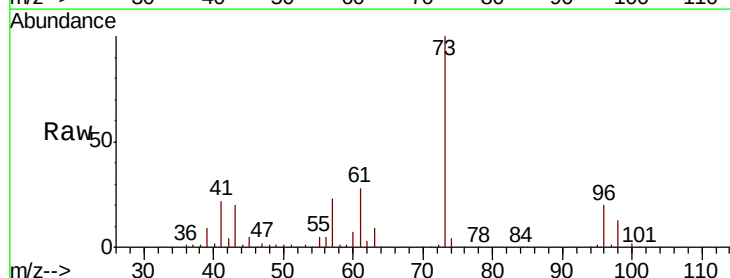
Tgt Ion: 73 Resp: 1217031

Ion Ratio Lower Upper

73 100

43 19.2 15.6 23.4

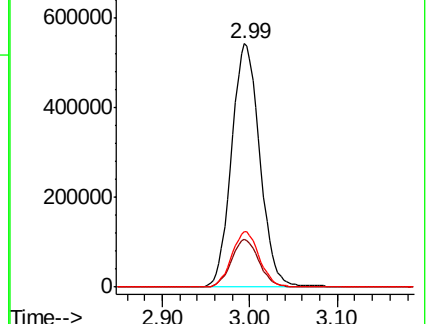
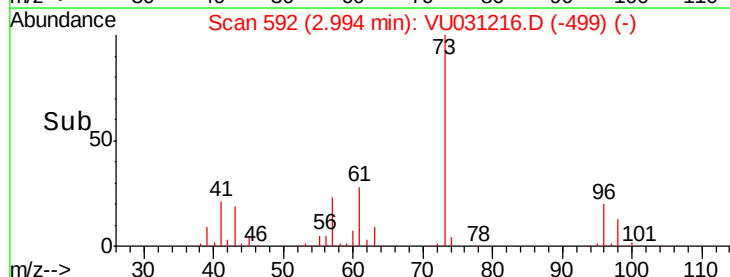
57 22.3 18.0 27.0

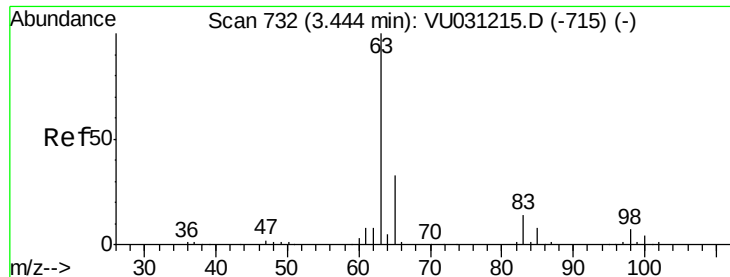


Abundance Ion 73.00 (72.70 to 73.70): VU031216.D (-499) (-)

Ion 43.00 (42.70 to 43.70): VU031216.D (-499) (-)

Ion 57.00 (56.70 to 57.70): VU031216.D (-499) (-)

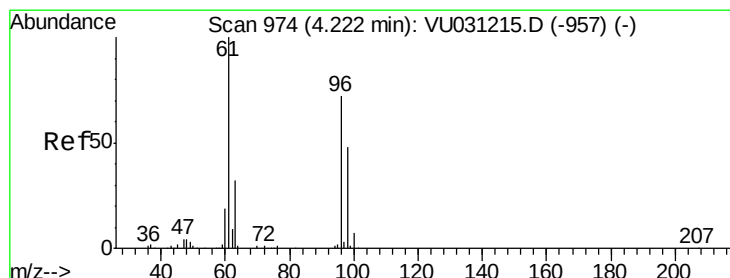
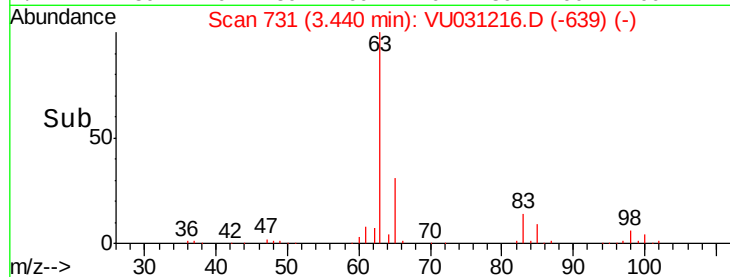
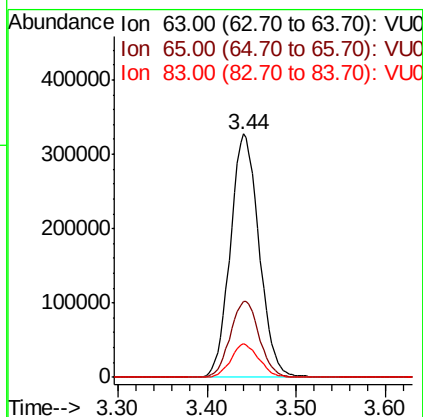
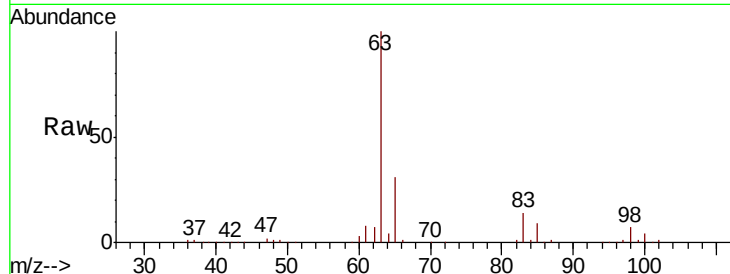




#19
 1,1-Dichloroethane
 Concen: 92.237 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. -0.00 min
 Lab File: VU031216.D
 Acq: 16 Apr 2019 17:17

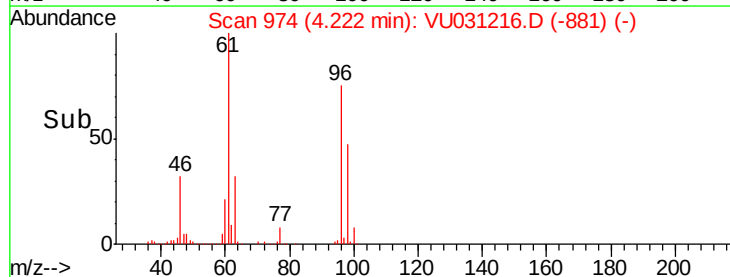
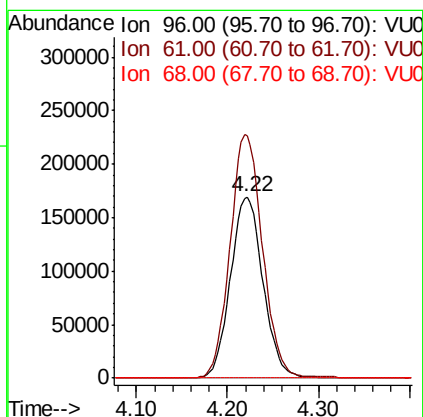
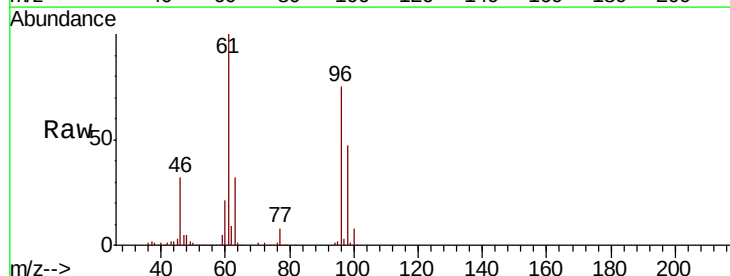
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10050

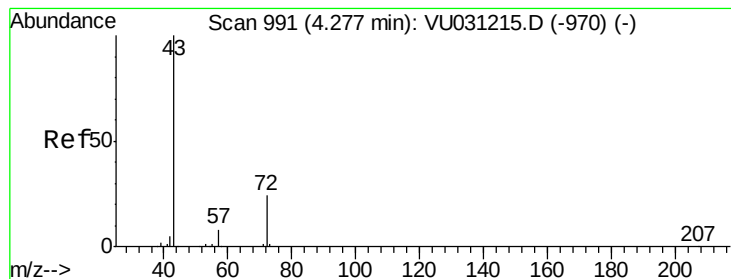
Tgt Ion: 63 Resp: 731087
 Ion Ratio Lower Upper
 63 100
 65 31.0 22.8 42.4
 83 13.6 9.7 17.9



#20
 cis-1,2-Dichloroethene
 Concen: 95.902 ug/L
 RT: 4.22 min Scan# 974
 Delta R.T. -0.00 min
 Lab File: VU031216.D
 Acq: 16 Apr 2019 17:17

Tgt Ion: 96 Resp: 420808
 Ion Ratio Lower Upper
 96 100
 61 134.0 98.2 182.4
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 165.945 ug/L

RT: 4.27 min Scan# 989

Delta R.T. -0.01 min

Lab File: VU031216.D

Acq: 16 Apr 2019 17:17

Instrument :

MSVOA_U

ClientSampleId :

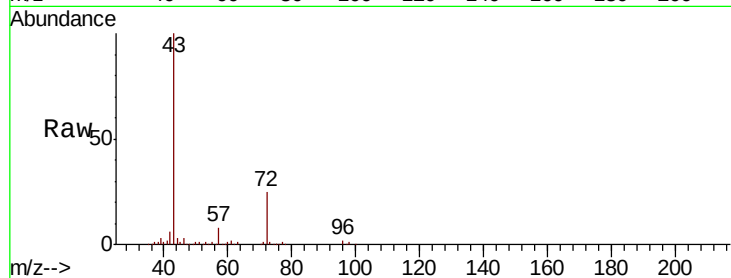
VSTD10050

Tgt Ion: 43 Resp: 728030

Ion Ratio Lower Upper

43 100

72 26.2 12.6 37.8



Abundance Ion 43.00 (42.70 to 43.70): VU031216.D (-989) (-)

Ion 72.00 (71.70 to 72.70): VU031216.D (-989) (-)

4.27

250000

200000

150000

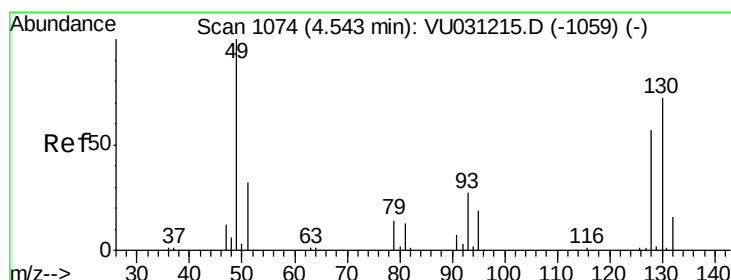
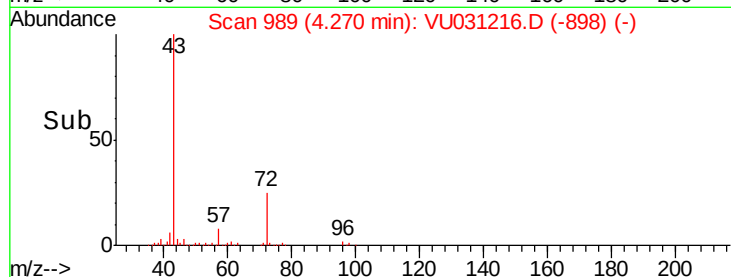
100000

50000

0

4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 99.691 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. -0.00 min

Lab File: VU031216.D

Acq: 16 Apr 2019 17:17

Tgt Ion: 128 Resp: 207849

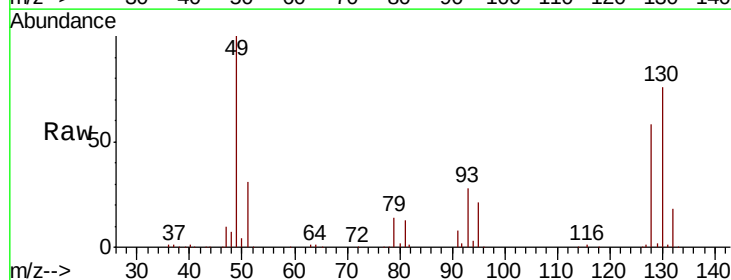
Ion Ratio Lower Upper

128 100

49 172.4 124.0 230.4

130 130.7 89.7 166.5

51 53.9 45.2 67.8



Abundance Ion 128.00 (127.70 to 128.70): VU031216.D (-981) (-)

Ion 49.00 (48.70 to 49.70): VU031216.D (-981) (-)

Ion 130.00 (129.70 to 130.70): VU031216.D (-981) (-)

Ion 51.00 (50.70 to 51.70): VU031216.D (-981) (-)

200000

150000

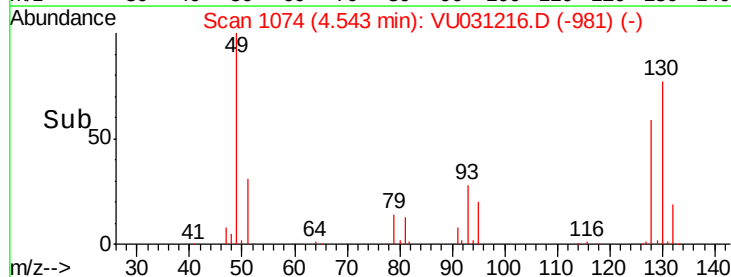
100000

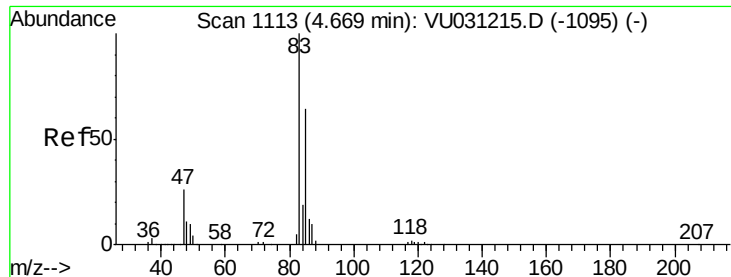
50000

0

4.45 4.50 4.55 4.60 4.65

Time-->





#25

Chloroform

Concen: 89.319 ug/L

RT: 4.67 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VU031216.D

Acq: 16 Apr 2019 17:17

Instrument :

MSVOA_U

ClientSampleId :

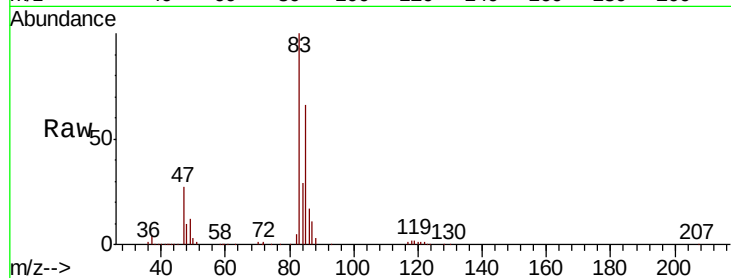
VSTD10050

Tgt Ion: 83 Resp: 728665

Ion Ratio Lower Upper

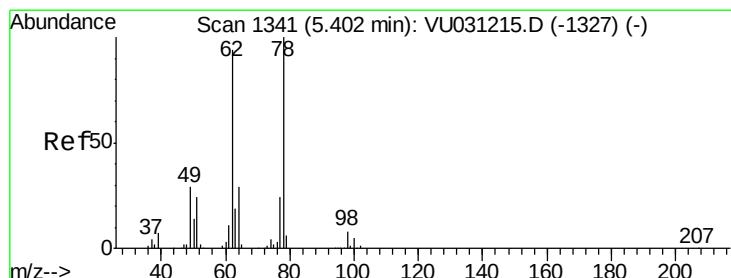
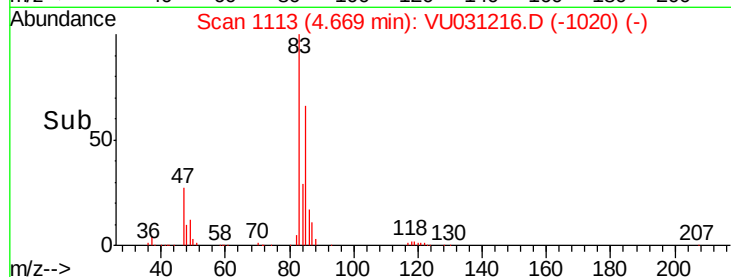
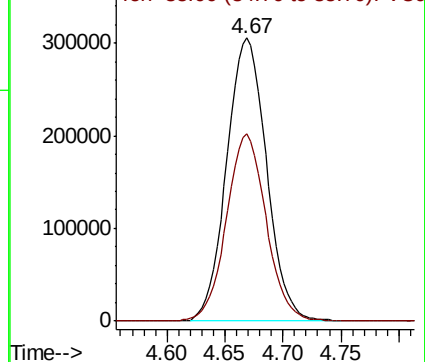
83 100

85 66.0 44.8 83.2



Abundance Ion 83.00 (82.70 to 83.70): VU031216.D (-1020) (-)

Ion 85.00 (84.70 to 85.70): VU031216.D (-1020) (-)



#27

1,2-Dichloroethane

Concen: 90.077 ug/L

RT: 5.40 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VU031216.D

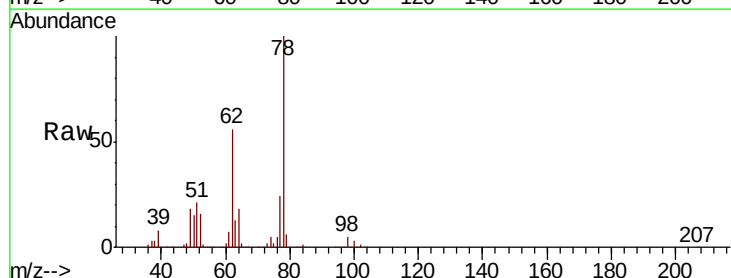
Acq: 16 Apr 2019 17:17

Tgt Ion: 62 Resp: 557715

Ion Ratio Lower Upper

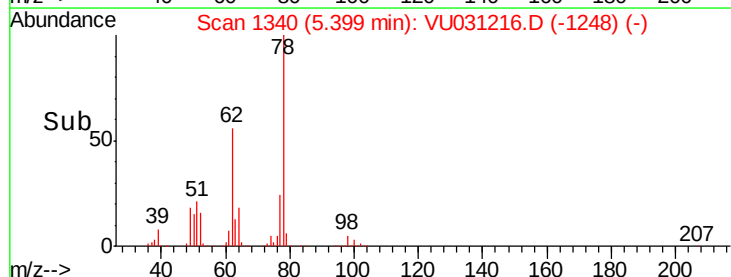
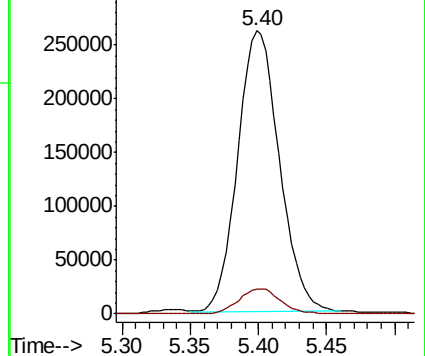
62 100

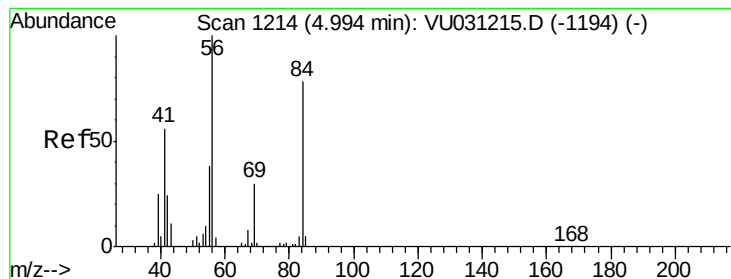
98 8.8 7.0 10.6



Abundance Ion 62.00 (61.70 to 62.70): VU031216.D (-1248) (-)

Ion 98.00 (97.70 to 98.70): VU031216.D (-1248) (-)





#29

Cyclohexane

Concen: 95.001 ug/L

RT: 4.99 min Scan# 1213

Delta R.T. -0.00 min

Lab File: VU031216.D

Acq: 16 Apr 2019 17:17

Instrument :

MSVOA_U

ClientSampleId :

VSTD10050

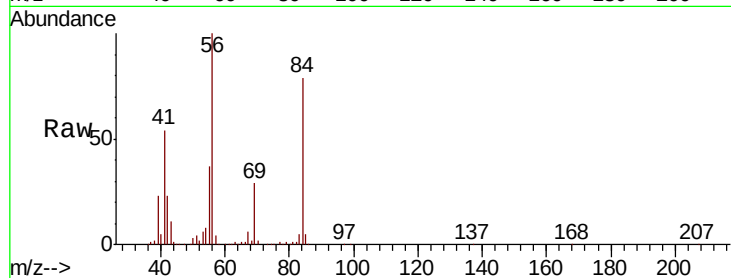
Tgt Ion: 56 Resp: 690786

Ion Ratio Lower Upper

56 100

69 29.5 23.0 34.6

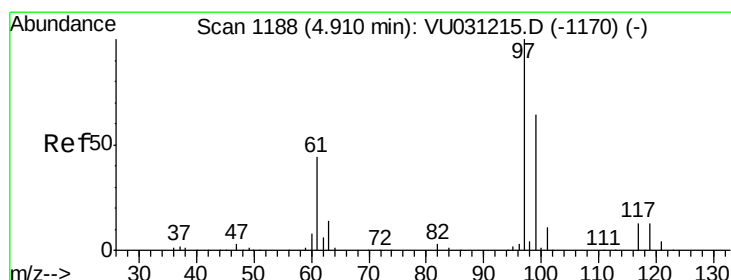
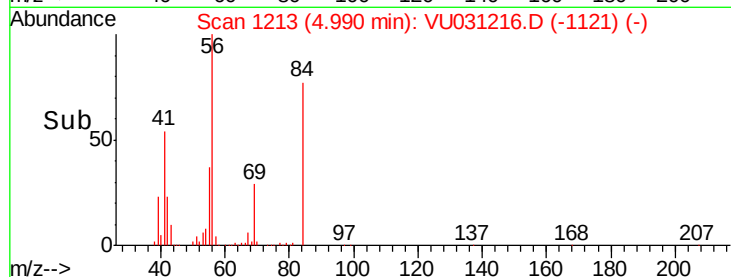
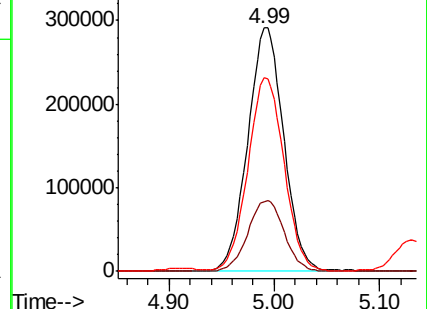
84 79.6 61.8 92.6



Abundance Ion 56.00 (55.70 to 56.70): VU031215.D (-1194) (-)

Ion 69.00 (68.70 to 69.70): VU031215.D (-1194) (-)

Ion 84.00 (83.70 to 84.70): VU031215.D (-1194) (-)



#30

1,1,1-Trichloroethane

Concen: 97.998 ug/L

RT: 4.91 min Scan# 1188

Delta R.T. -0.00 min

Lab File: VU031216.D

Acq: 16 Apr 2019 17:17

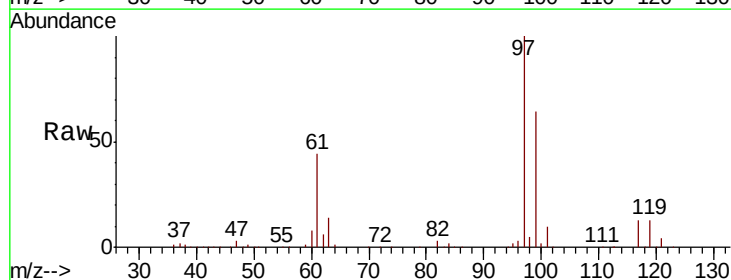
Tgt Ion: 97 Resp: 615712

Ion Ratio Lower Upper

97 100

99 64.7 51.4 77.2

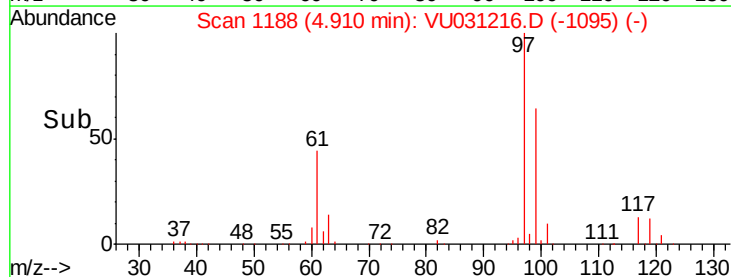
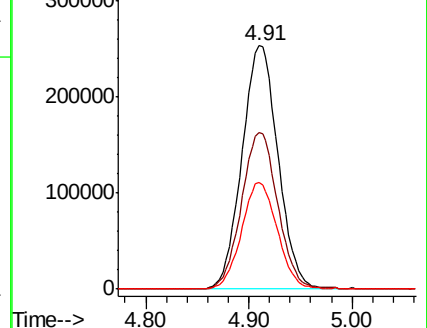
61 43.6 35.0 52.4

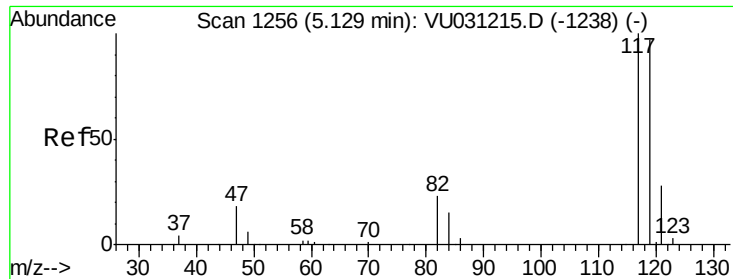


Abundance Ion 97.00 (96.70 to 97.70): VU031215.D (-1170) (-)

Ion 99.00 (98.70 to 99.70): VU031215.D (-1170) (-)

Ion 61.05 (60.75 to 61.75): VU031215.D (-1170) (-)





#31

Carbon tetrachloride

Concen: 100.603 ug/L

RT: 5.13 min Scan# 1257

Delta R.T. 0.00 min

Lab File: VU031216.D

Acq: 16 Apr 2019 17:17

Instrument :

MSVOA_U

ClientSampleId :

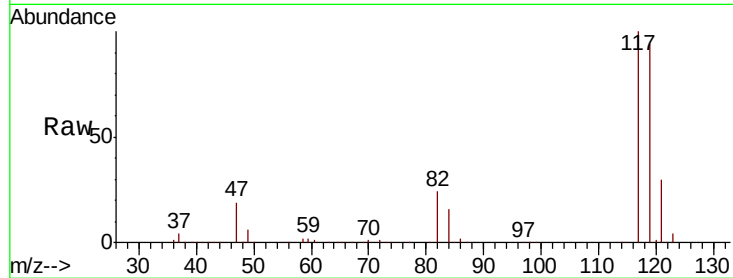
VSTD10050

Tgt Ion:117 Resp: 545182

Ion Ratio Lower Upper

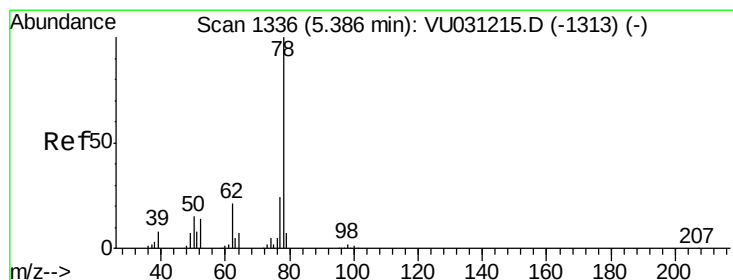
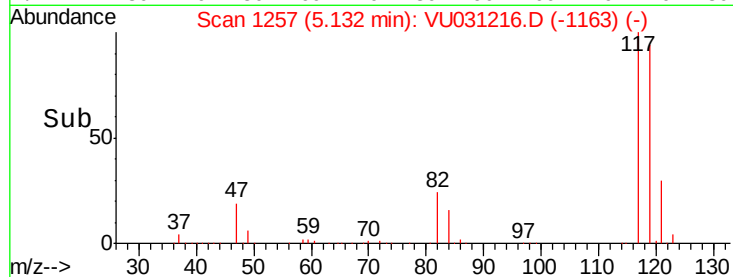
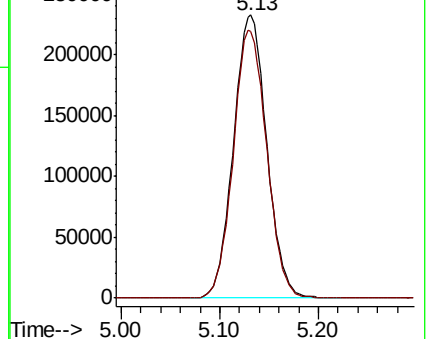
117 100

119 95.2 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: 96.663 ug/L

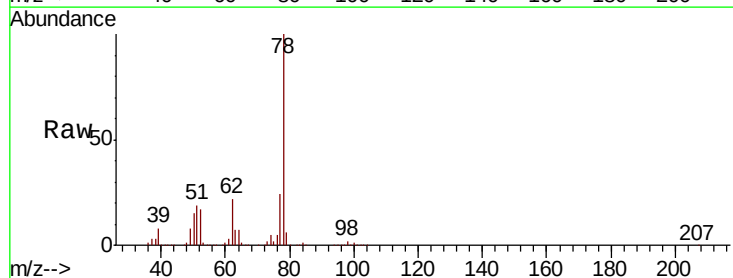
RT: 5.39 min Scan# 1336

Delta R.T. -0.00 min

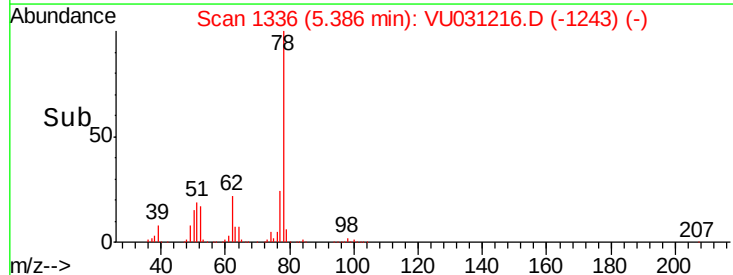
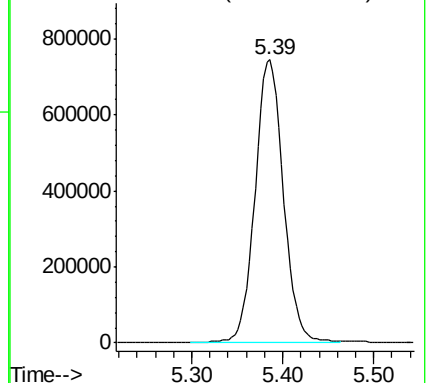
Lab File: VU031216.D

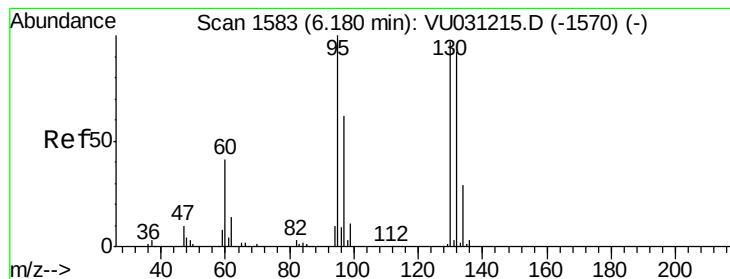
Acq: 16 Apr 2019 17:17

Tgt Ion: 78 Resp: 1612591



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 99.214 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VU031216.D

Acq: 16 Apr 2019 17:17

Instrument :

MSVOA_U

ClientSampleId :

VSTD10050

Tgt Ion: 95 Resp: 406086

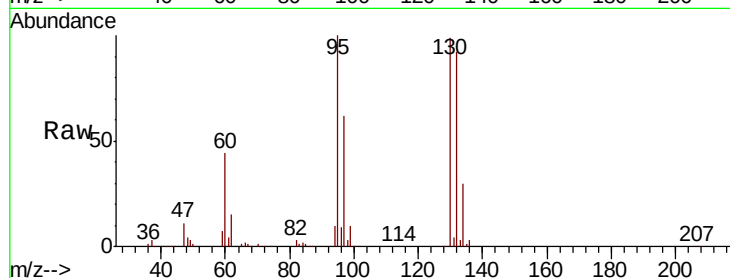
Ion Ratio Lower Upper

95 100

97 62.0 43.6 81.0

132 92.5 64.5 119.7

130 98.7 68.0 126.2

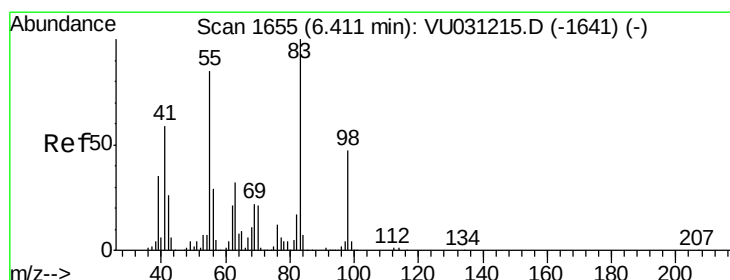
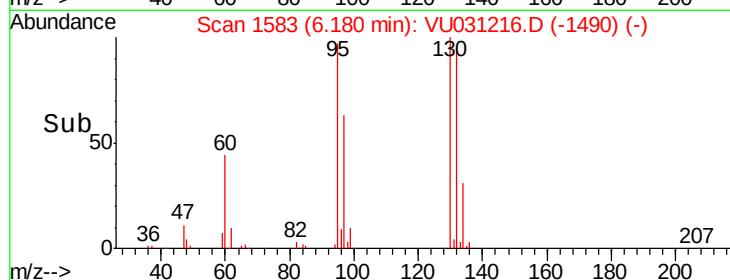
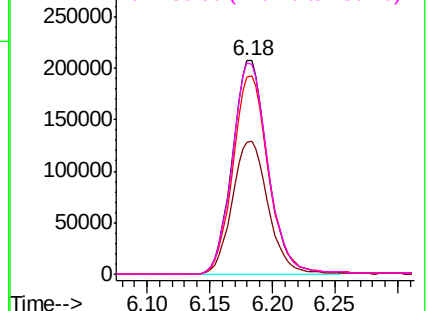


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 102.049 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VU031216.D

Acq: 16 Apr 2019 17:17

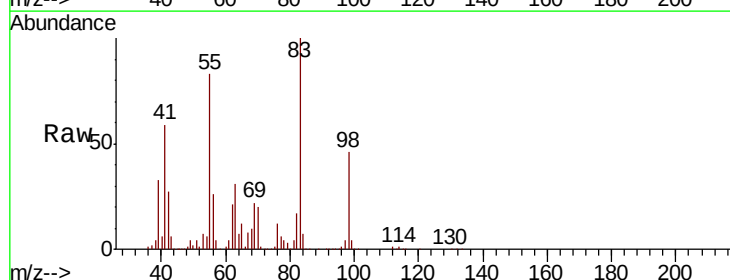
Tgt Ion: 83 Resp: 638053

Ion Ratio Lower Upper

83 100

55 82.6 67.0 100.4

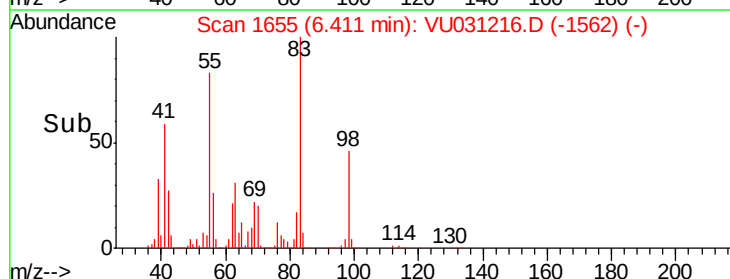
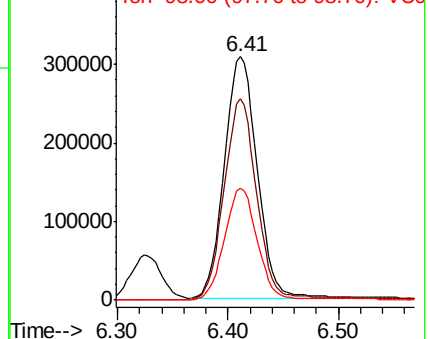
98 45.7 36.9 55.3

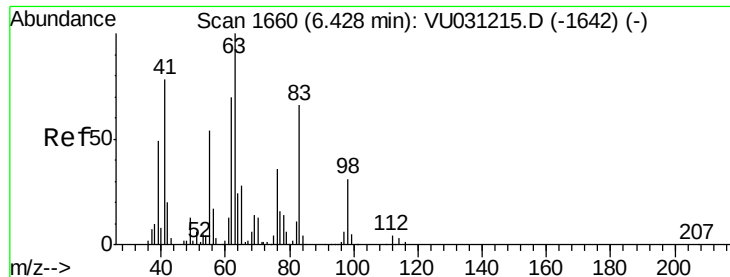


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

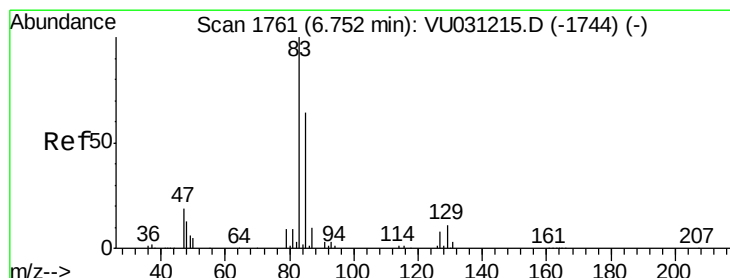
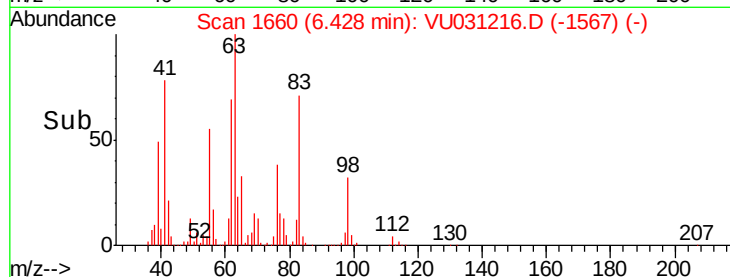
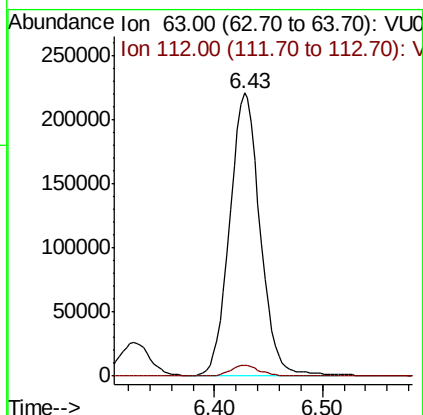
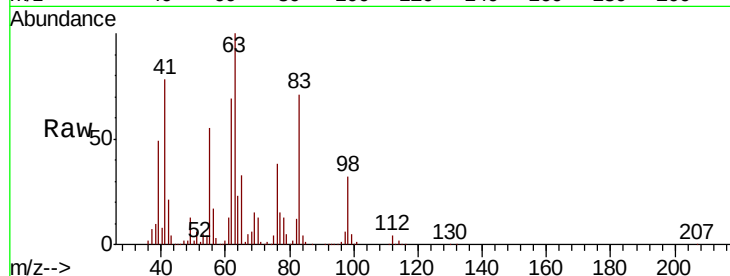




#37
 1,2-Dichloropropane
 Concen: 93.106 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. -0.00 min
 Lab File: VU031216.D
 Acq: 16 Apr 2019 17:17

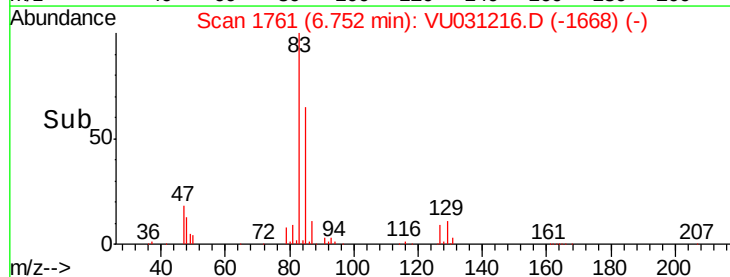
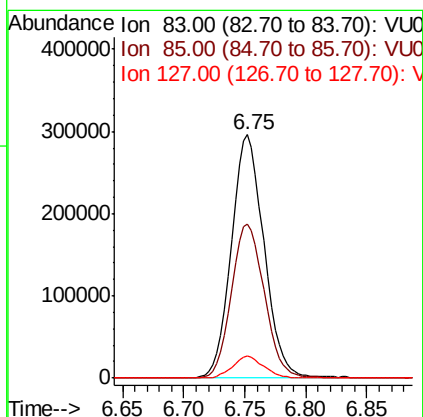
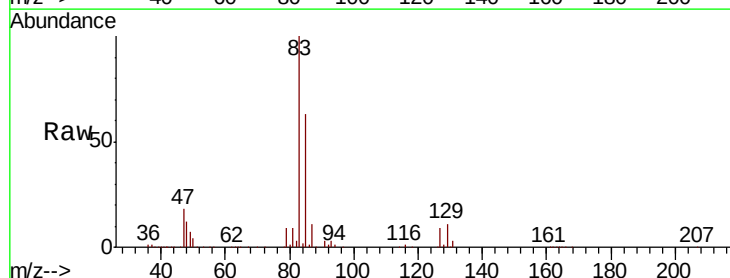
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10050

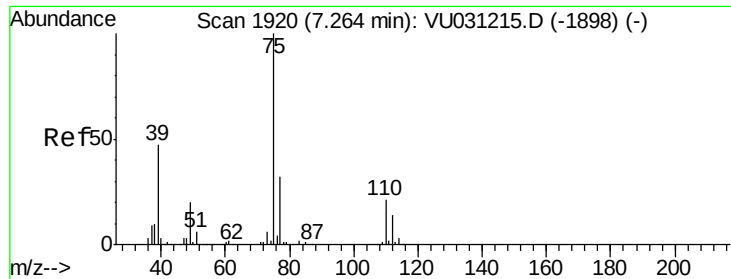
Tgt Ion: 63 Resp: 432294
 Ion Ratio Lower Upper
 63 100
 112 3.8 3.3 4.9



#38
 Bromodichloromethane
 Concen: 96.159 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. -0.00 min
 Lab File: VU031216.D
 Acq: 16 Apr 2019 17:17

Tgt Ion: 83 Resp: 545475
 Ion Ratio Lower Upper
 83 100
 85 63.3 44.5 82.7
 127 9.0 6.6 9.8



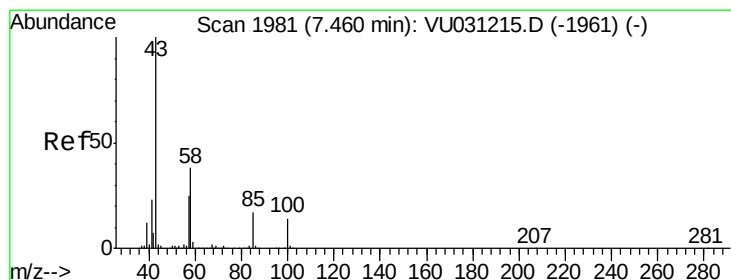
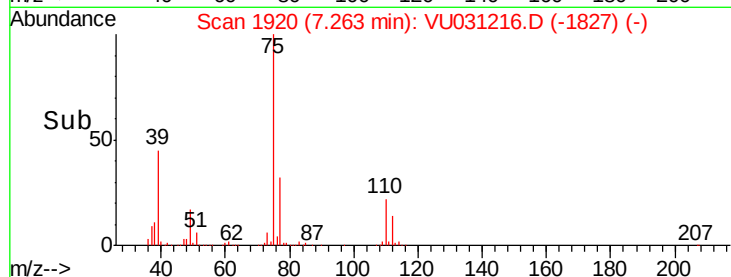
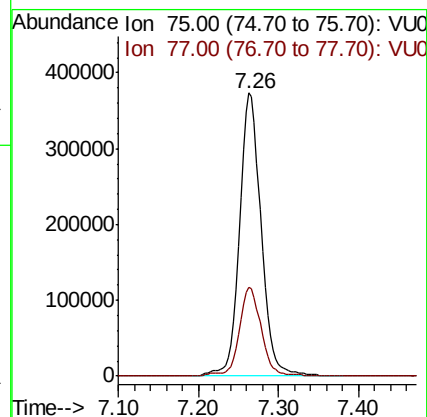
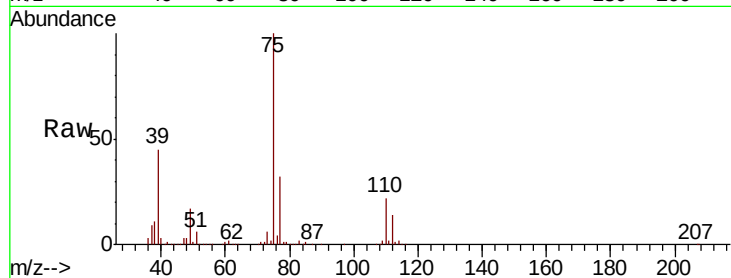


#39

cis-1,3-Dichloropropene
 Concen: 102.838 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. -0.00 min
 Lab File: VU031216.D
 Acq: 16 Apr 2019 17:17

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10050

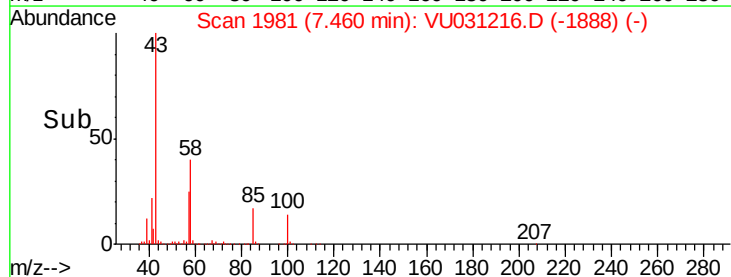
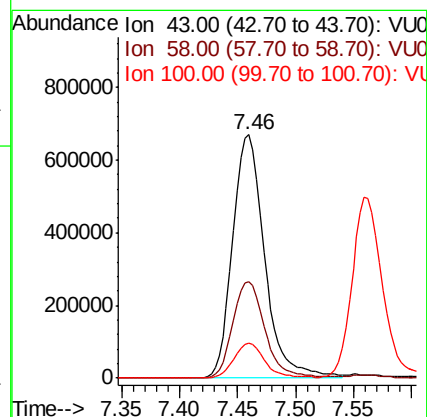
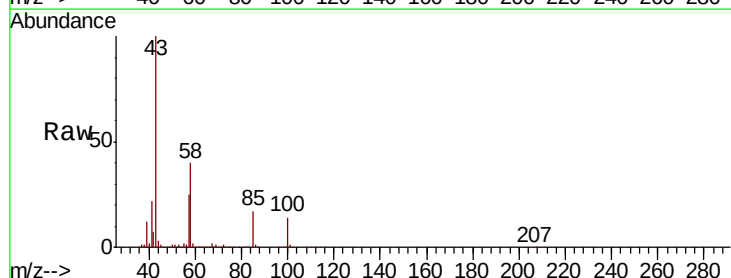
Tgt Ion: 75 Resp: 681506
 Ion Ratio Lower Upper
 75 100
 77 31.5 22.7 42.1

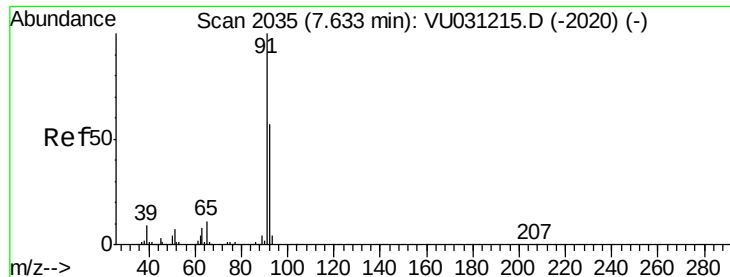


#40

4-Methyl-2-pentanone
 Concen: 175.935 ug/L
 RT: 7.46 min Scan# 1981
 Delta R.T. -0.00 min
 Lab File: VU031216.D
 Acq: 16 Apr 2019 17:17

Tgt Ion: 43 Resp: 1281742
 Ion Ratio Lower Upper
 43 100
 58 40.0 31.0 46.4
 100 13.8 10.6 16.0





#42

Toluene

Concen: 100.940 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU031216.D

Acq: 16 Apr 2019 17:17

Instrument :

MSVOA_U

ClientSampleId :

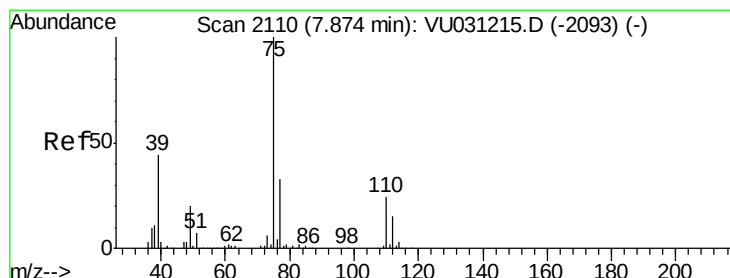
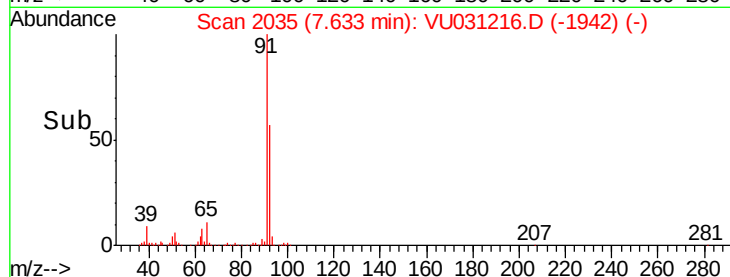
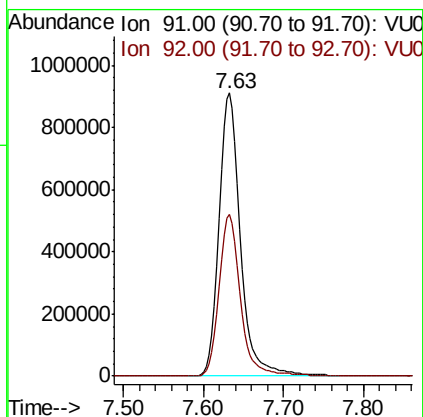
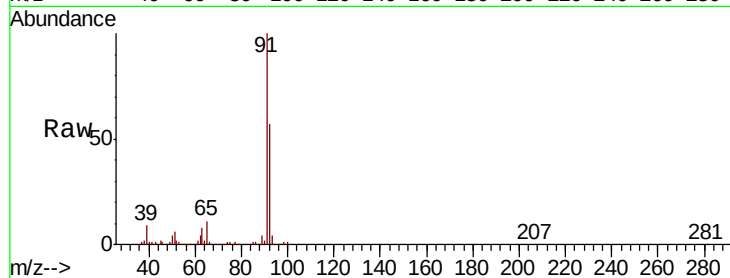
VSTD10050

Tgt Ion: 91 Resp: 1700859

Ion Ratio Lower Upper

91 100

92 57.0 40.1 74.5



#44

trans-1,3-Dichloropropene

Concen: 101.135 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VU031216.D

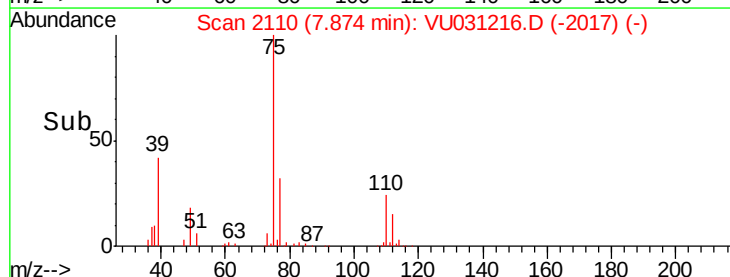
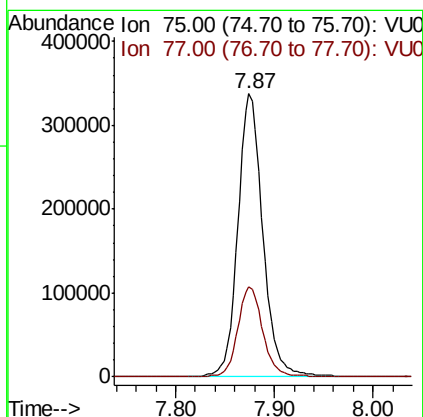
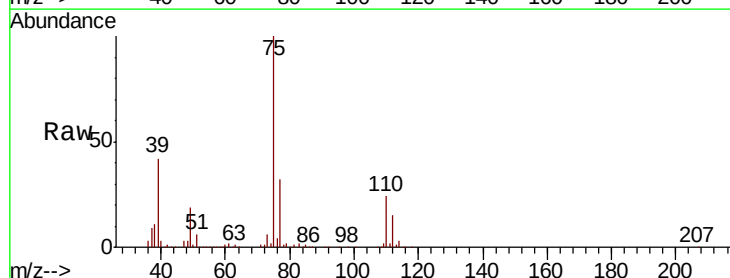
Acq: 16 Apr 2019 17:17

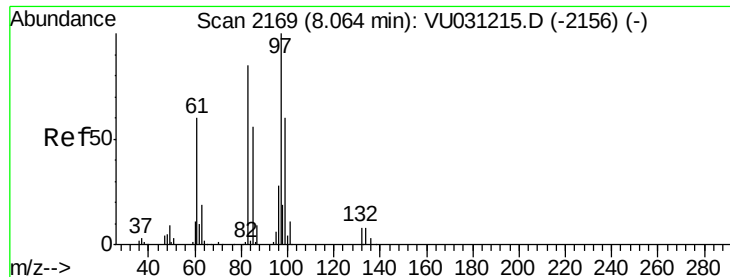
Tgt Ion: 75 Resp: 592708

Ion Ratio Lower Upper

75 100

77 31.7 22.8 42.4

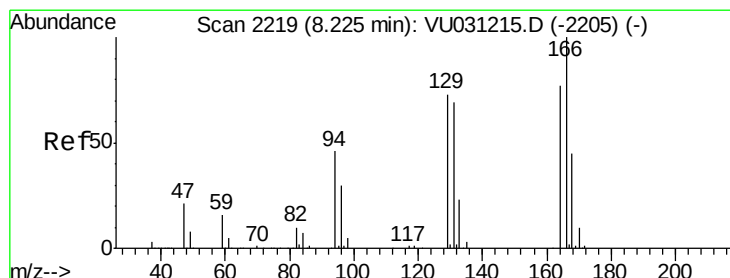
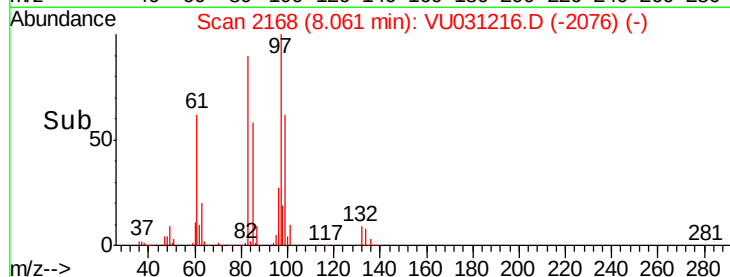
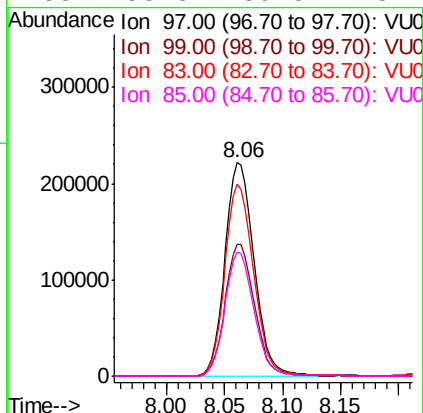
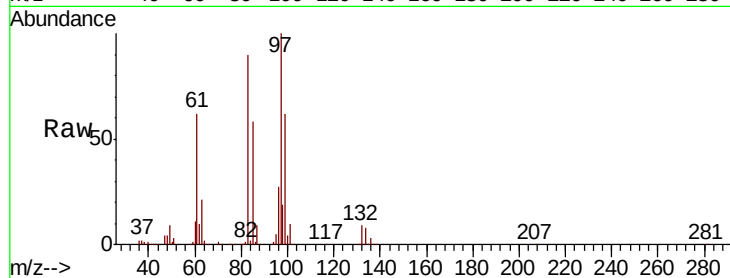




#45
 1,1,2-Trichloroethane
 Concen: 97.146 ug/L
 RT: 8.06 min Scan# 2168
 Delta R.T. -0.00 min
 Lab File: VU031216.D
 Acq: 16 Apr 2019 17:17

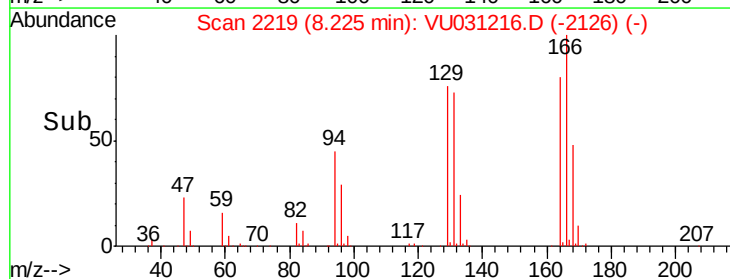
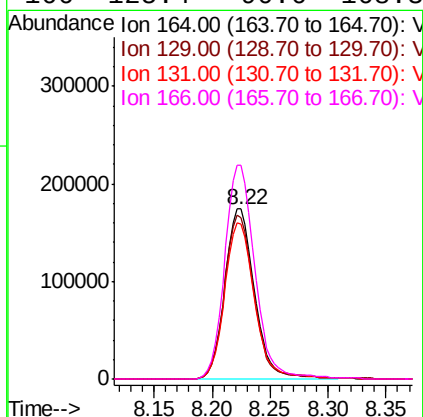
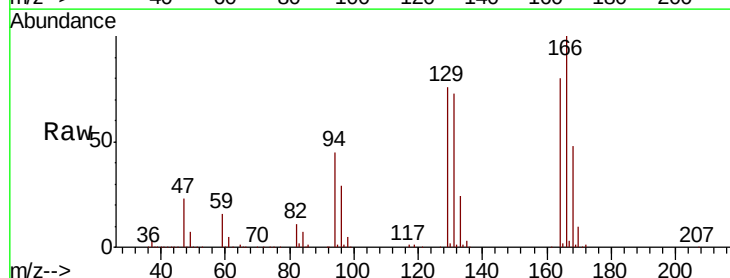
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10050

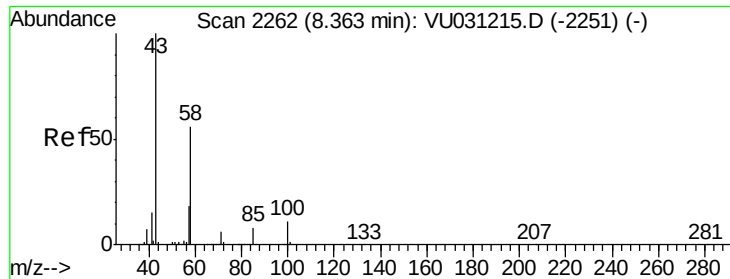
Tgt Ion:	97	Resp:	389037
Ion	Ratio	Lower	Upper
97	100		
99	62.0	42.2	78.4
83	90.1	59.8	111.1
85	58.3	39.5	73.4



#46
 Tetrachloroethene
 Concen: 102.899 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. -0.00 min
 Lab File: VU031216.D
 Acq: 16 Apr 2019 17:17

Tgt Ion:	164	Resp:	309631
Ion	Ratio	Lower	Upper
164	100		
129	95.2	66.5	123.5
131	91.2	62.3	115.7
166	125.4	90.6	168.3



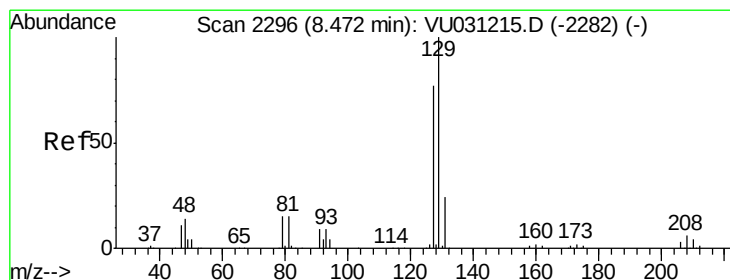
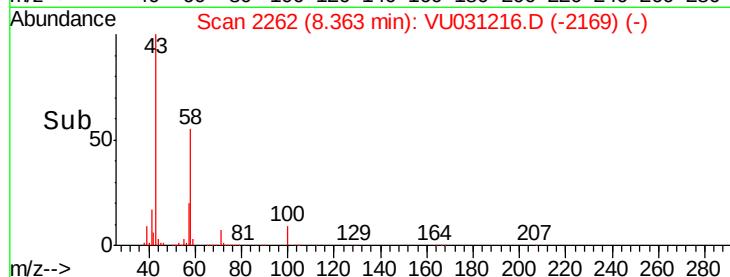
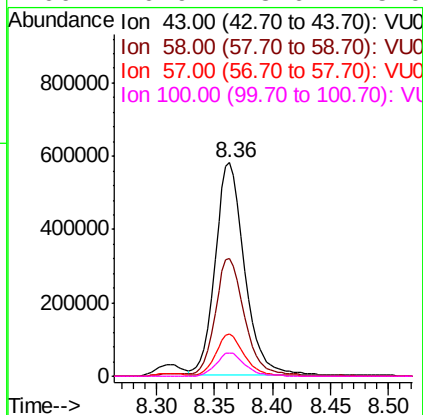
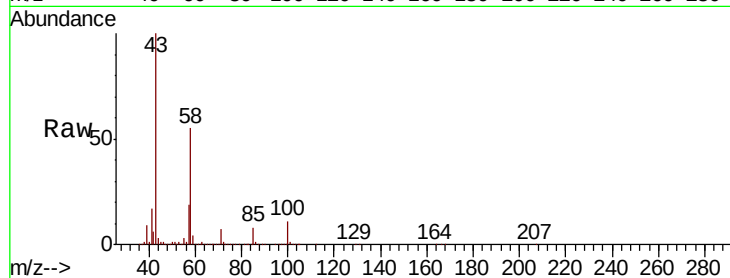


#48
2-Hexanone
Concen: 181.052 ug/L
RT: 8.36 min Scan# 2262
Delta R.T. -0.00 min
Lab File: VU031216.D
Acq: 16 Apr 2019 17:17

Instrument :
MSVOA_U
ClientSampleId :
VSTD10050

Tgt Ion: 43 Resp: 1024988

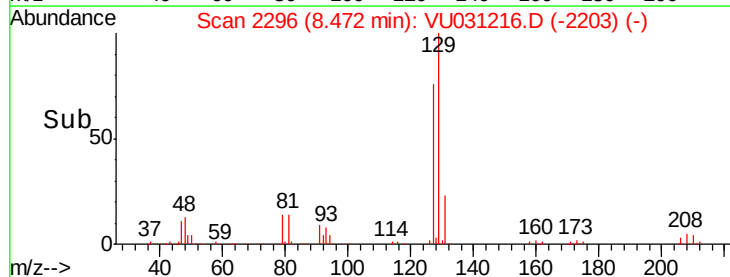
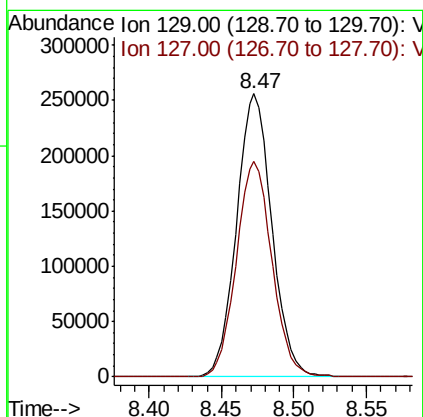
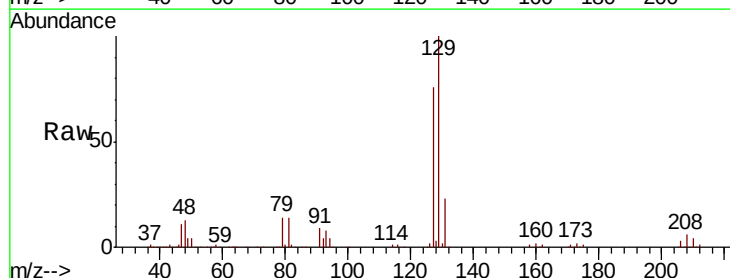
Ion	Ratio	Lower	Upper
43	100		
58	55.5	44.9	67.3
57	19.5	15.1	22.7
100	10.9	8.6	13.0

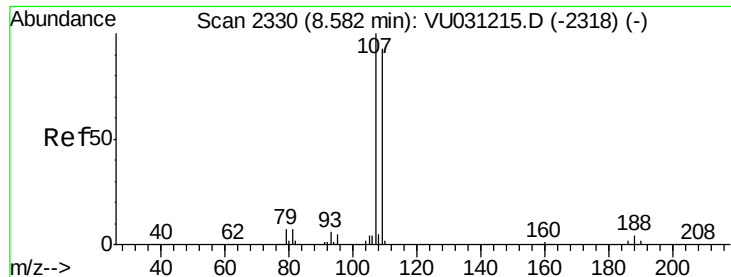


#49
Dibromochloromethane
Concen: 101.718 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU031216.D
Acq: 16 Apr 2019 17:17

Tgt Ion: 129 Resp: 433002

Ion	Ratio	Lower	Upper
129	100		
127	76.2	53.6	99.6

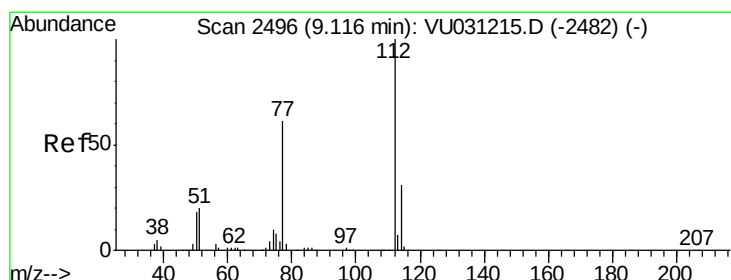
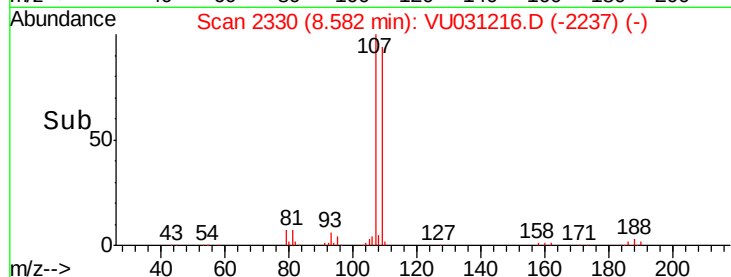
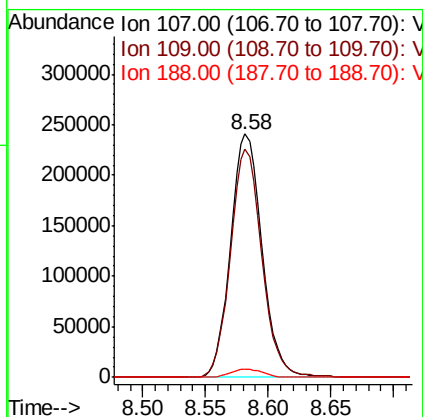
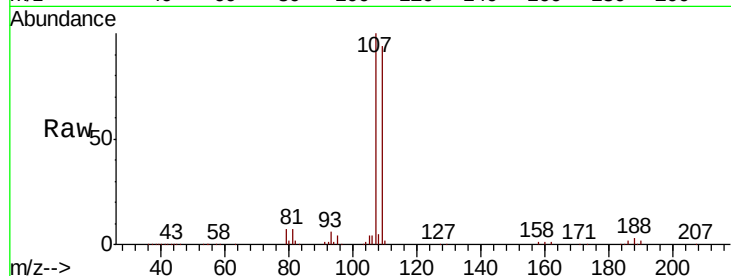




#50
1,2-Dibromoethane
Concen: 97.658 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VU031216.D
Acq: 16 Apr 2019 17:17

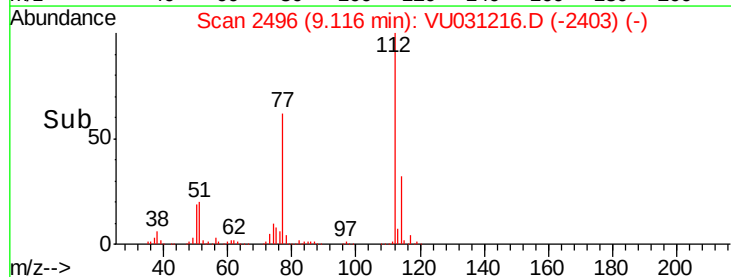
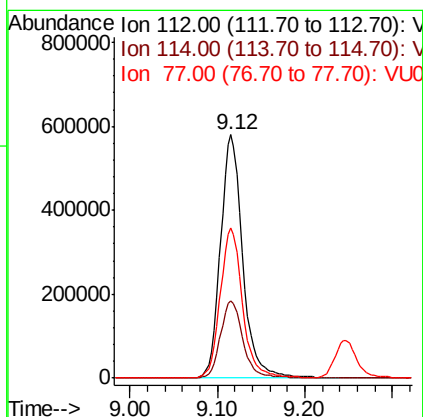
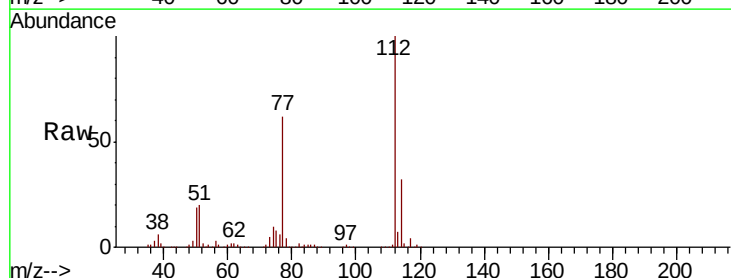
Instrument :
MSVOA_U
ClientSampleId :
VSTD10050

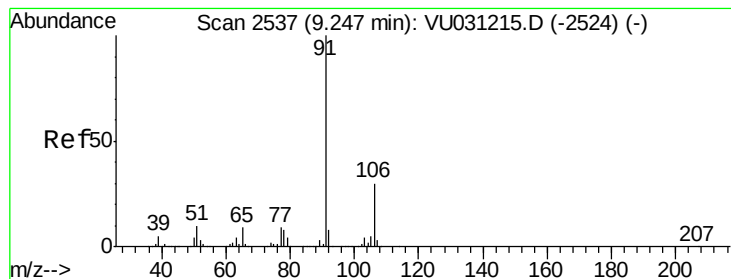
Tgt Ion:107 Resp: 420064
Ion Ratio Lower Upper
107 100
109 93.9 65.0 120.8
188 3.4 2.9 4.3



#51
Chlorobenzene
Concen: 98.109 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. -0.00 min
Lab File: VU031216.D
Acq: 16 Apr 2019 17:17

Tgt Ion:112 Resp: 1022332
Ion Ratio Lower Upper
112 100
114 31.9 21.6 40.0
77 61.5 49.0 73.4





#52

Ethylbenzene

Concen: 98.813 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. -0.00 min

Lab File: VU031216.D

Acq: 16 Apr 2019 17:17

Instrument :

MSVOA_U

ClientSampleId :

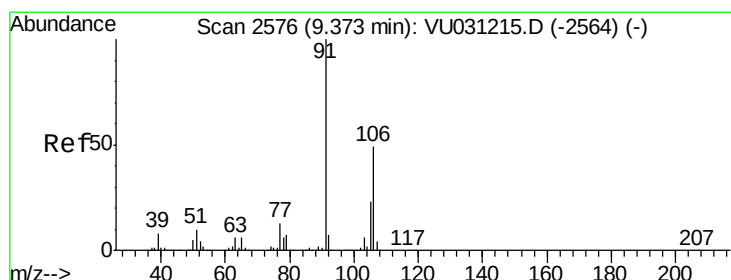
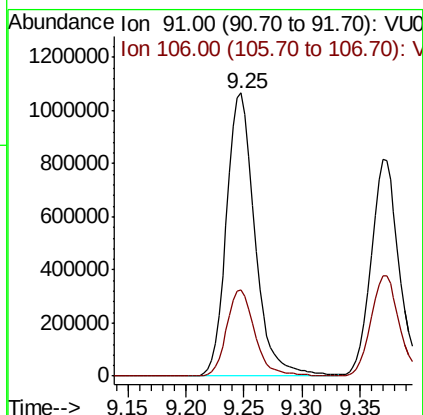
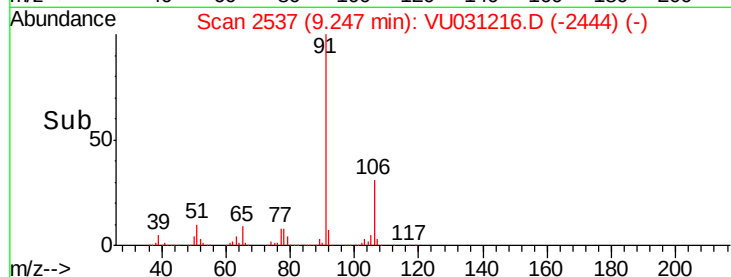
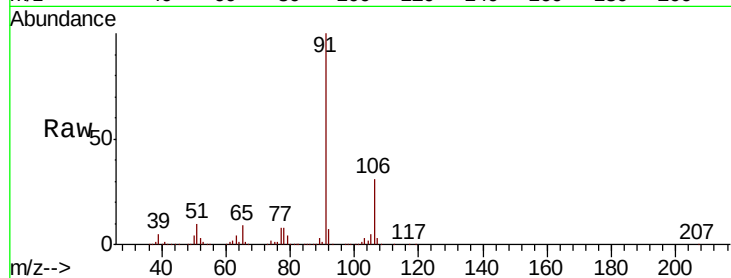
VSTD10050

Tgt Ion: 91 Resp: 1816969

Ion Ratio Lower Upper

91 100

106 30.5 20.9 38.7



#53

m,p-Xylene

Concen: 103.016 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. -0.00 min

Lab File: VU031216.D

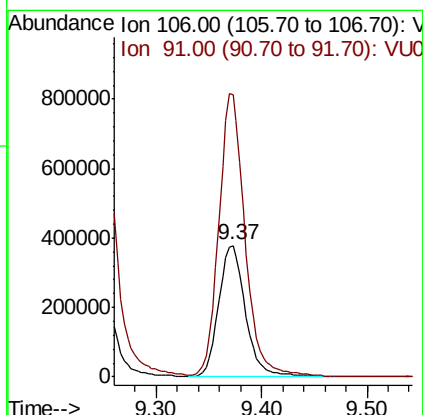
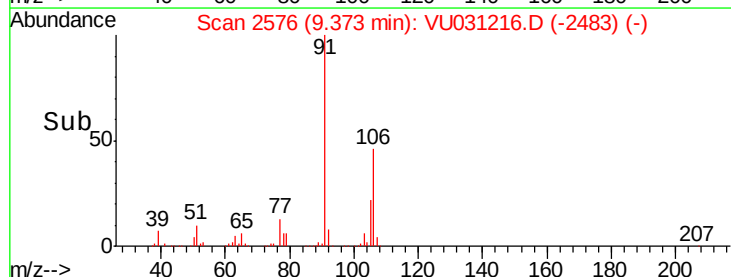
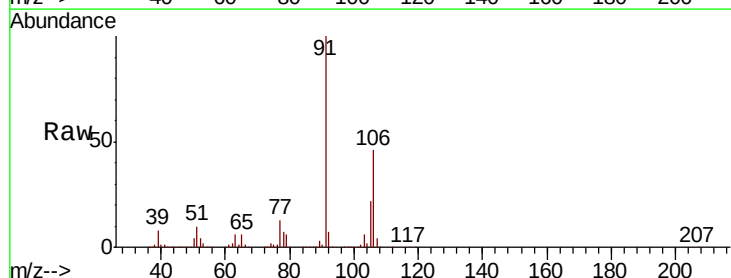
Acq: 16 Apr 2019 17:17

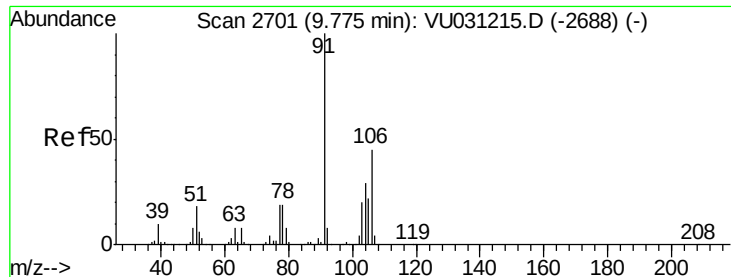
Tgt Ion: 106 Resp: 664682

Ion Ratio Lower Upper

106 100

91 215.5 144.5 268.4

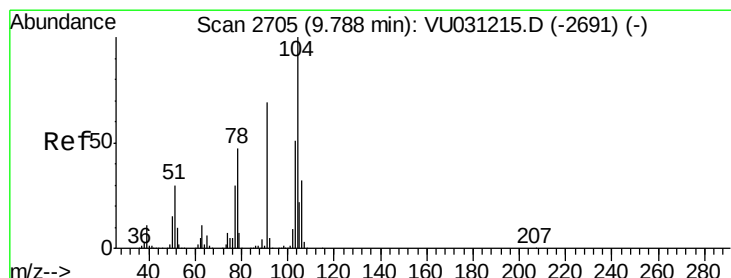
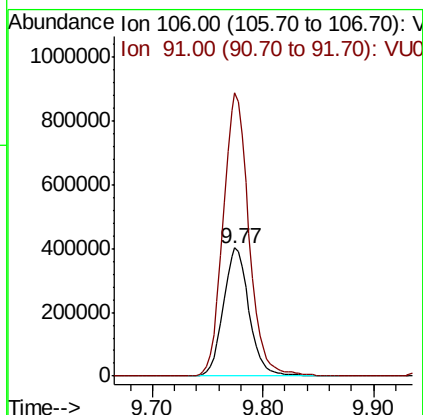
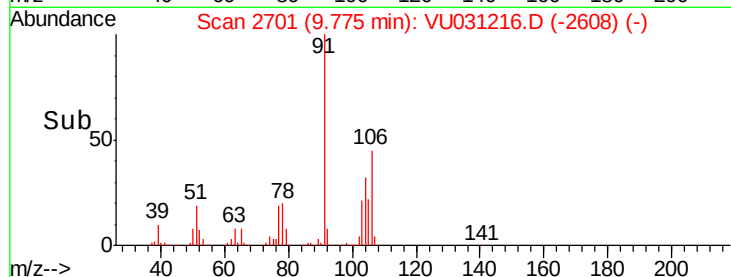
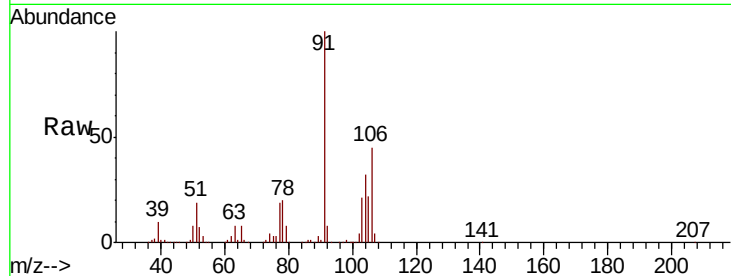




#54
o-xylene
Concen: 101.399 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. -0.00 min
Lab File: VU031216.D
Acq: 16 Apr 2019 17:17

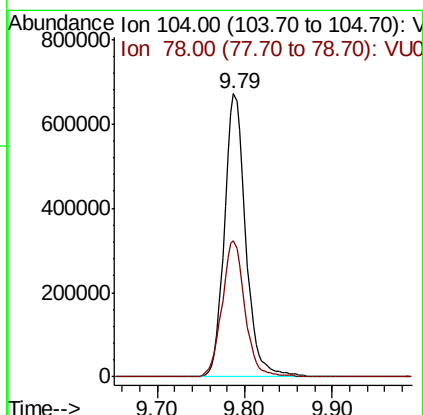
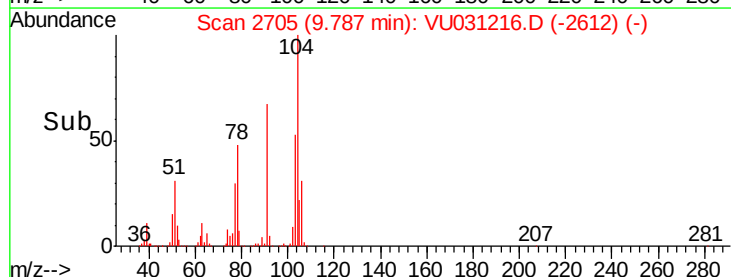
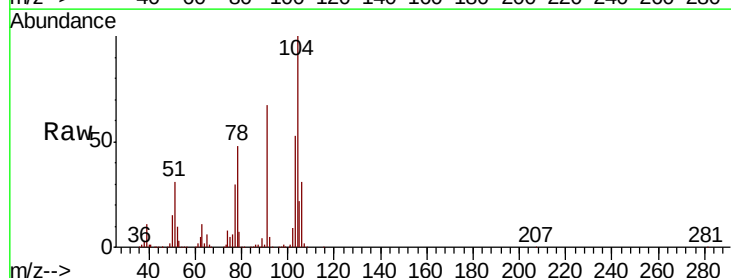
Instrument :
MSVOA_U
ClientSampleId :
VSTD10050

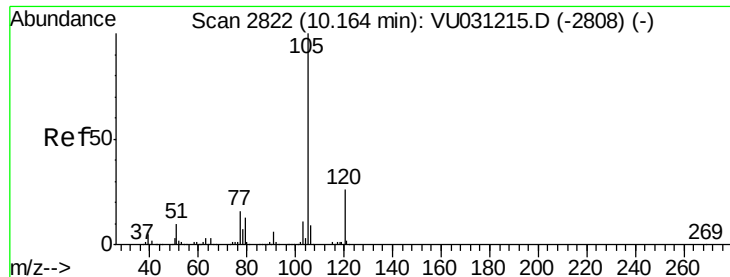
Tgt Ion:106 Resp: 651508
Ion Ratio Lower Upper
106 100
91 220.6 154.3 286.5



#55
Styrene
Concen: 103.762 ug/L
RT: 9.79 min Scan# 2705
Delta R.T. -0.00 min
Lab File: VU031216.D
Acq: 16 Apr 2019 17:17

Tgt Ion:104 Resp: 1138123
Ion Ratio Lower Upper
104 100
78 48.2 32.8 61.0





#56

Isopropylbenzene

Concen: 97.694 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. -0.00 min

Lab File: VU031216.D

Acq: 16 Apr 2019 17:17

Instrument :

MSVOA_U

ClientSampled :

VSTD10050

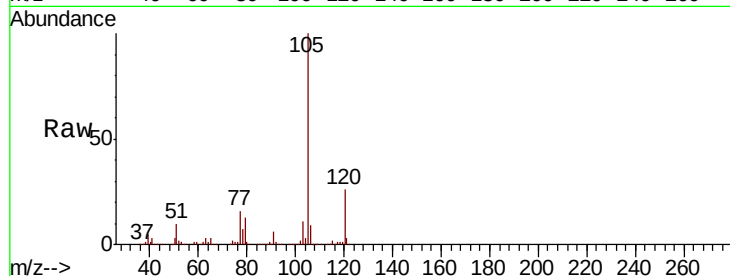
Tgt Ion: 105 Resp: 1643897

Ion Ratio Lower Upper

105 100

120 25.8 20.6 31.0

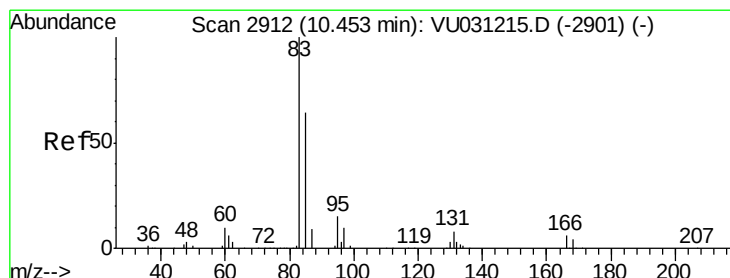
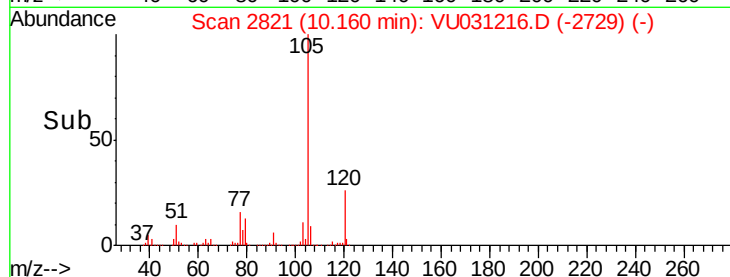
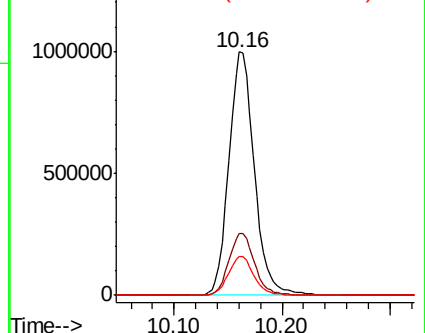
77 16.1 13.0 19.4



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: 91.122 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU031216.D

Acq: 16 Apr 2019 17:17

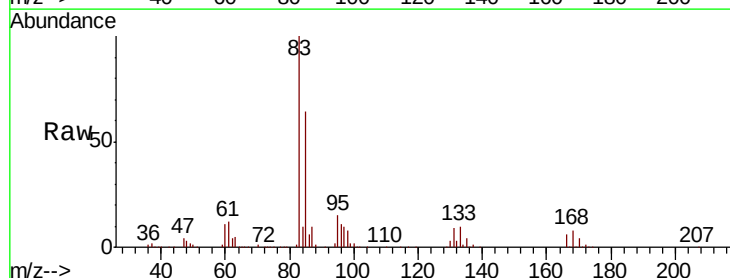
Tgt Ion: 83 Resp: 650581

Ion Ratio Lower Upper

83 100

85 64.1 45.4 84.4

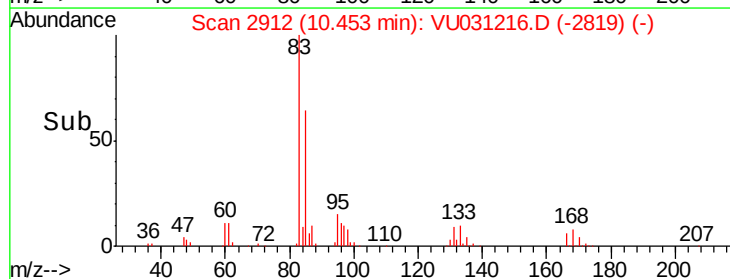
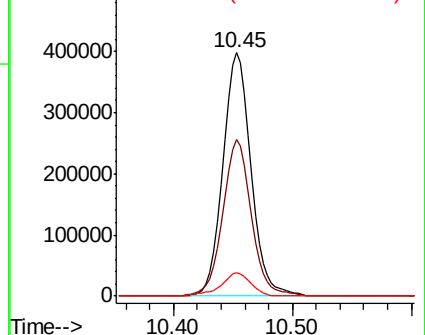
131 9.5 7.4 11.0

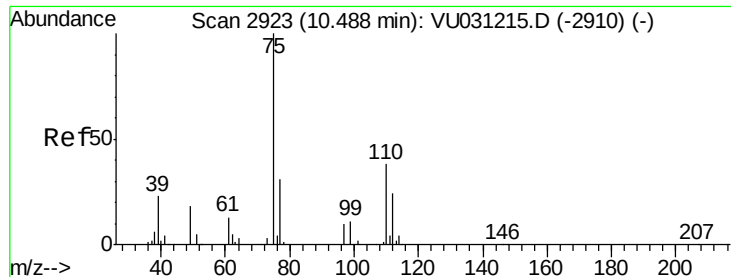


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

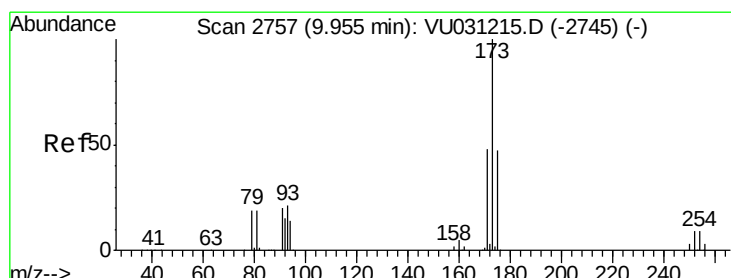
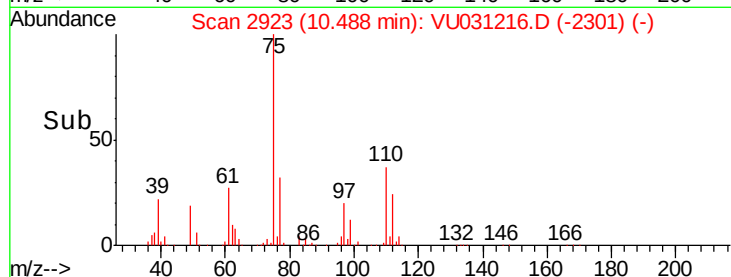
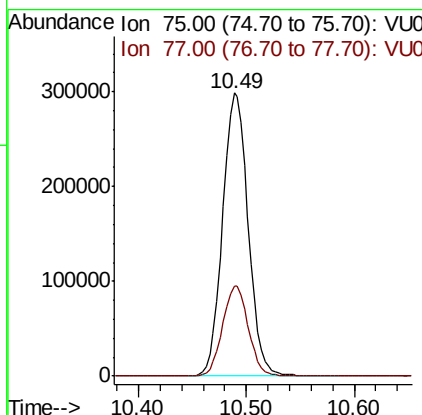
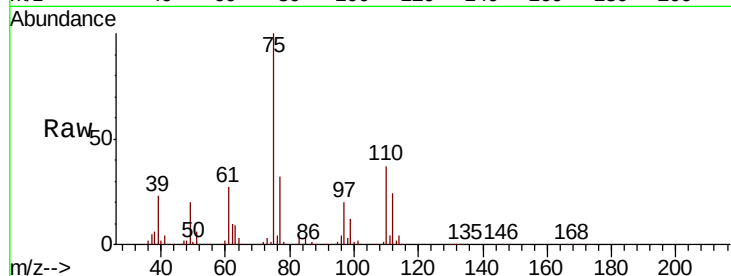




#59
 1,2,3-Trichloropropane
 Concen: 88.680 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. -0.00 min
 Lab File: VU031216.D
 Acq: 16 Apr 2019 17:17

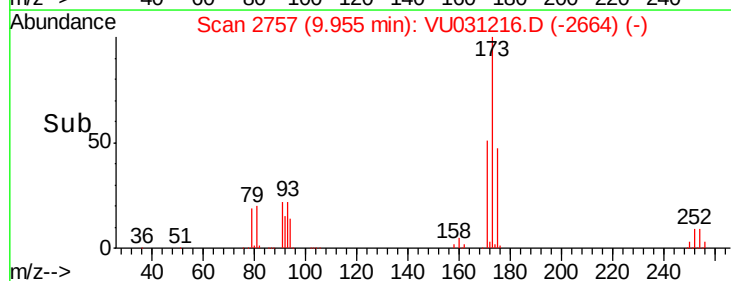
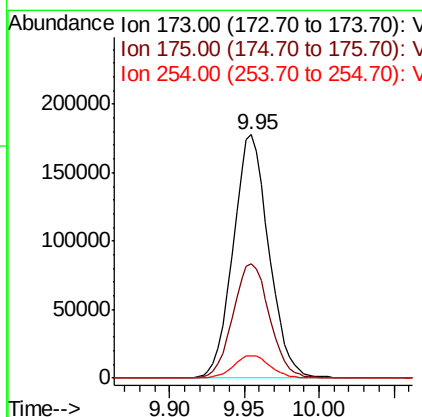
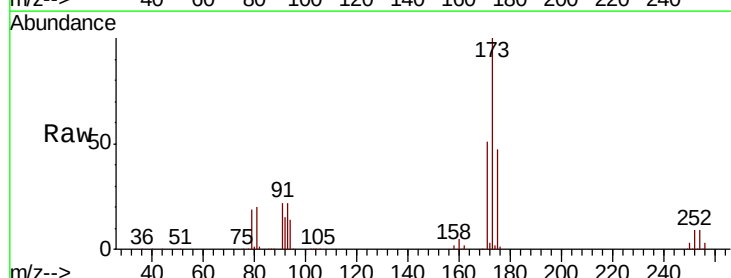
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10050

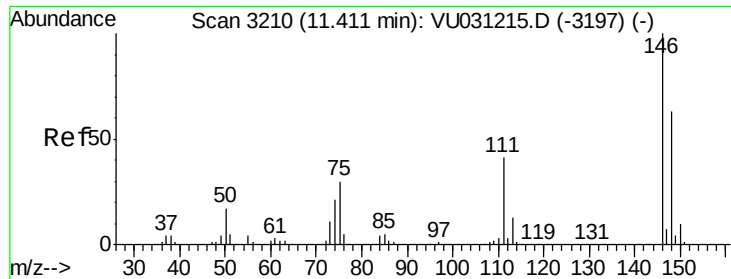
Tgt Ion: 75 Resp: 491523
 Ion Ratio Lower Upper
 75 100
 77 32.3 25.4 38.2



#61
 Bromoform
 Concen: 97.896 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. -0.00 min
 Lab File: VU031216.D
 Acq: 16 Apr 2019 17:17

Tgt Ion: 173 Resp: 295115
 Ion Ratio Lower Upper
 173 100
 175 48.3 37.8 56.8
 254 9.4 7.2 10.8

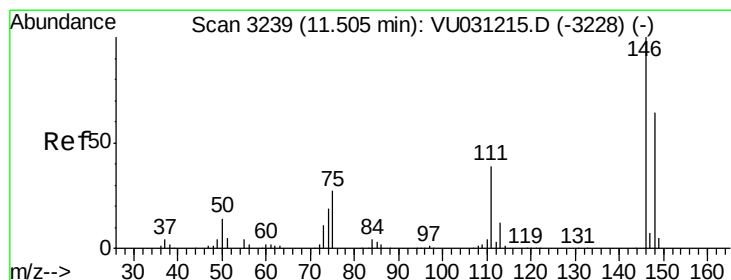
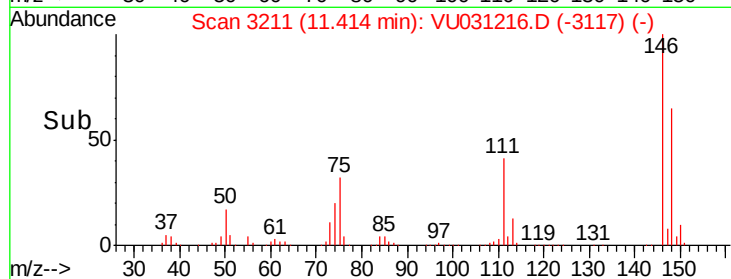
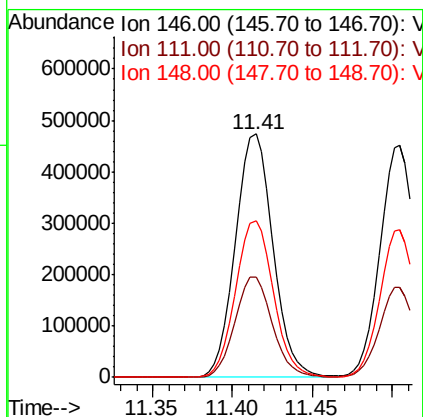
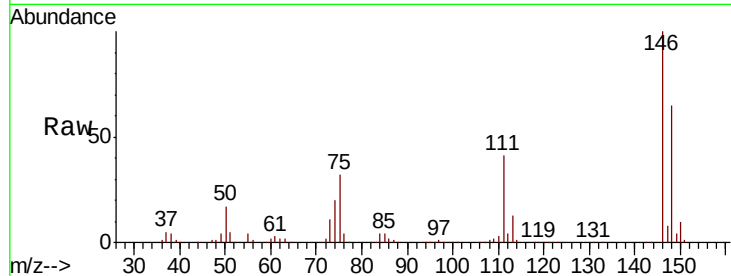




#62
 1,3-Dichlorobenzene
 Concen: 105.913 ug/L
 RT: 11.41 min Scan# 3211
 Delta R.T. 0.00 min
 Lab File: VU031216.D
 Acq: 16 Apr 2019 17:17

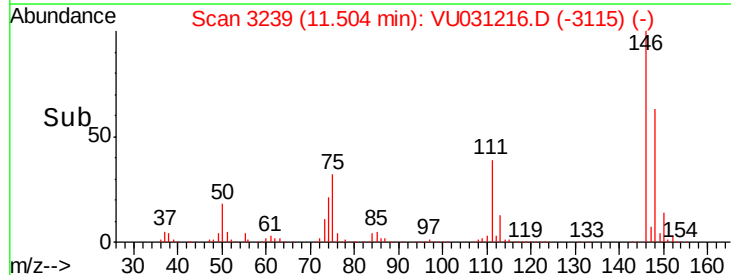
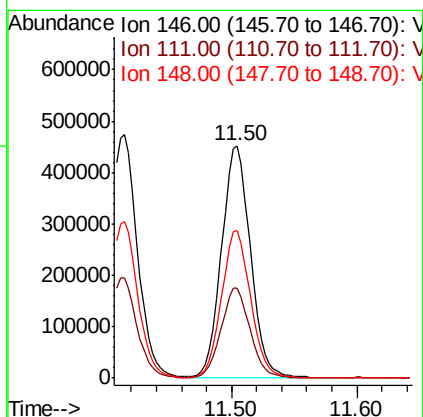
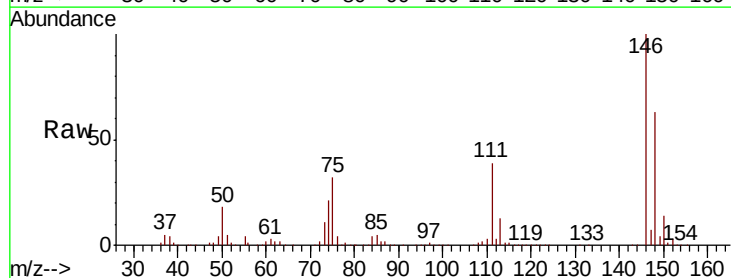
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10050

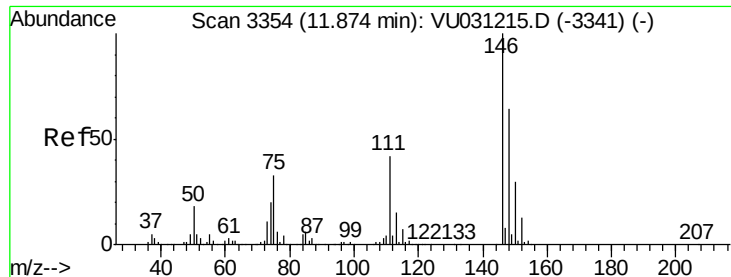
Tgt Ion:146 Resp: 757792
 Ion Ratio Lower Upper
 146 100
 111 41.1 28.7 53.3
 148 64.5 44.0 81.6



#63
 1,4-Dichlorobenzene
 Concen: 99.003 ug/L
 RT: 11.50 min Scan# 3239
 Delta R.T. -0.00 min
 Lab File: VU031216.D
 Acq: 16 Apr 2019 17:17

Tgt Ion:146 Resp: 723838
 Ion Ratio Lower Upper
 146 100
 111 38.6 27.4 50.8
 148 63.4 44.5 82.7





#65

1,2-Dichlorobenzene

Concen: 113.671 ug/L

RT: 11.87 min Scan# 3354

Delta R.T. -0.00 min

Lab File: VU031216.D

Acq: 16 Apr 2019 17:17

Instrument :

MSVOA_U

ClientSampleId :

VSTD10050

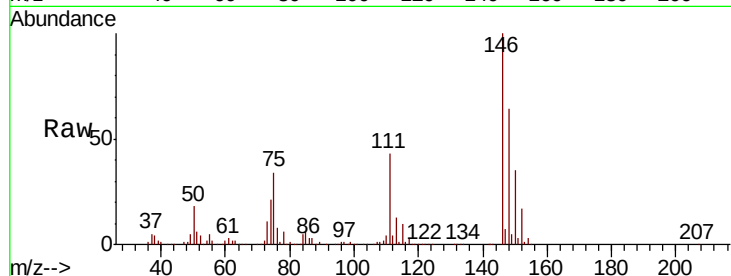
Tgt Ion:146 Resp: 821304

Ion Ratio Lower Upper

146 100

111 43.4 33.4 50.2

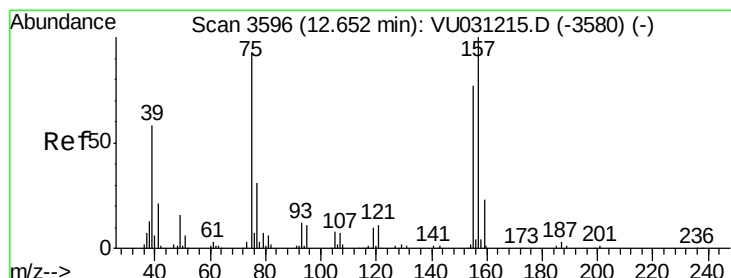
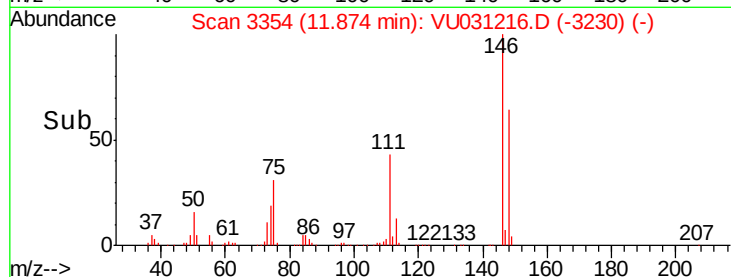
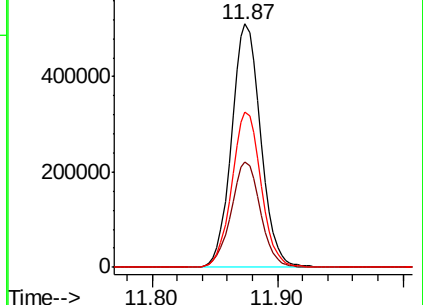
148 63.9 51.3 76.9



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: 110.154 ug/L

RT: 12.65 min Scan# 3596

Delta R.T. -0.00 min

Lab File: VU031216.D

Acq: 16 Apr 2019 17:17

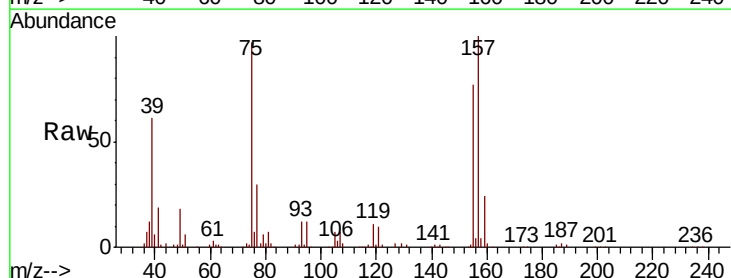
Tgt Ion: 75 Resp: 164840

Ion Ratio Lower Upper

75 100

155 79.2 66.7 100.1

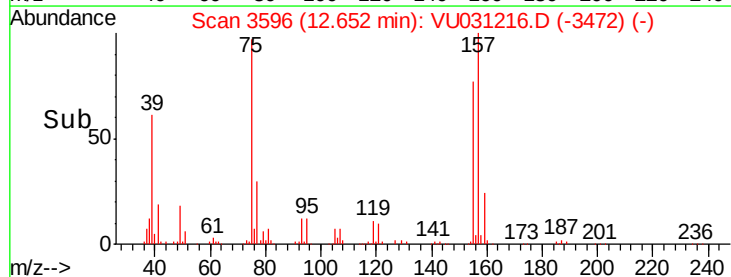
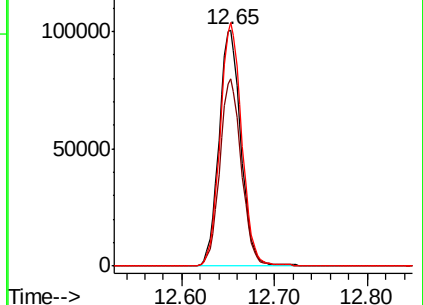
157 103.1 86.5 129.7

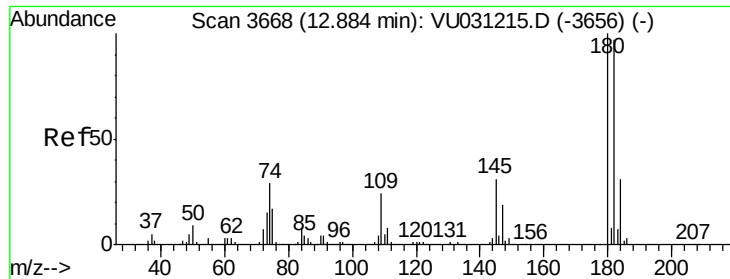


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

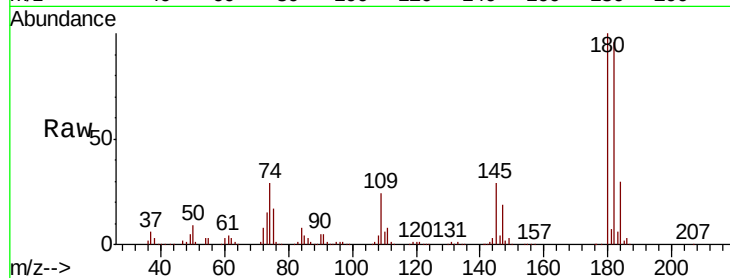




#67
 1,3,5-Trichlorobenzene
 Concen: 111.145 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. -0.00 min
 Lab File: VU031216.D
 Acq: 16 Apr 2019 17:17

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD10050

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.7	115.1
184	30.9	24.2	36.4
145	29.5	23.9	35.9



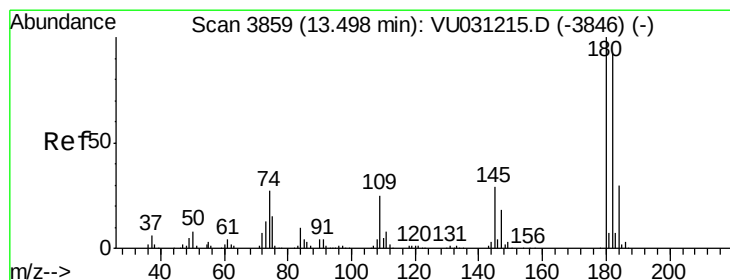
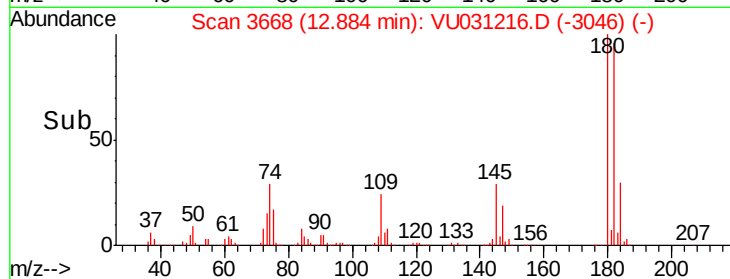
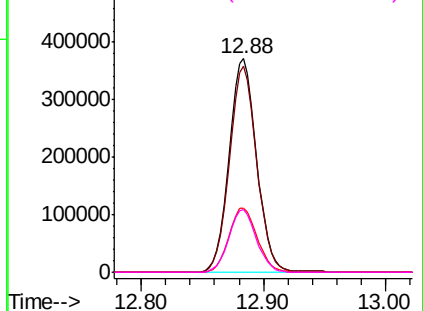
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

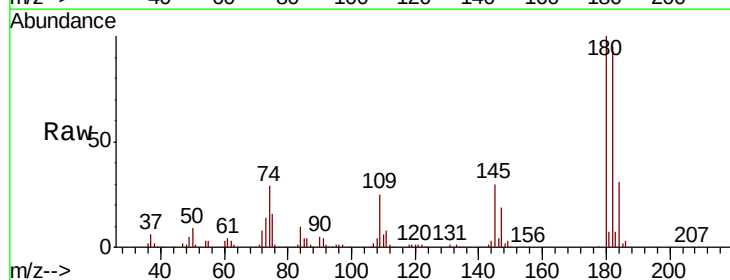
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 110.672 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. -0.00 min
 Lab File: VU031216.D
 Acq: 16 Apr 2019 17:17

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.1	75.5	113.3
145	29.6	23.1	34.7

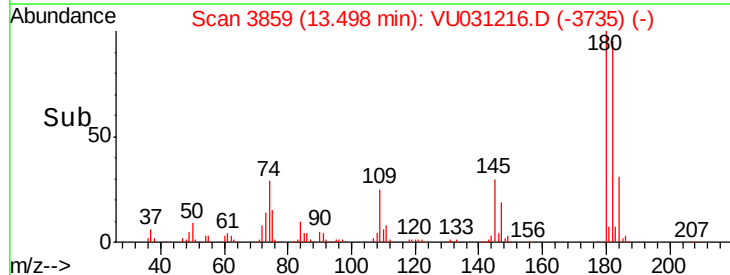
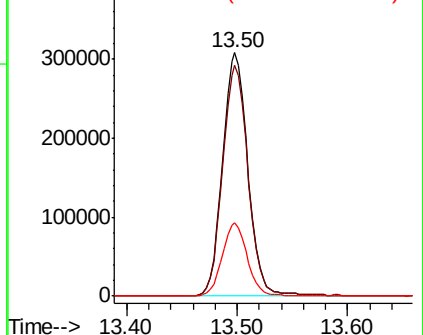


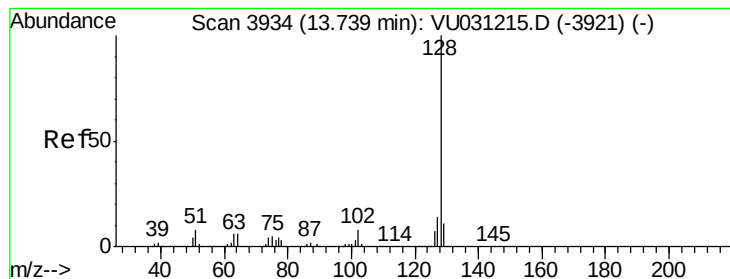
Abundance

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: 112.776 ug/L

RT: 13.74 min Scan# 3933

Delta R.T. -0.00 min

Lab File: VU031216.D

Acq: 16 Apr 2019 17:17

Instrument :

MSVOA_U

ClientSampleId :

VSTD10050

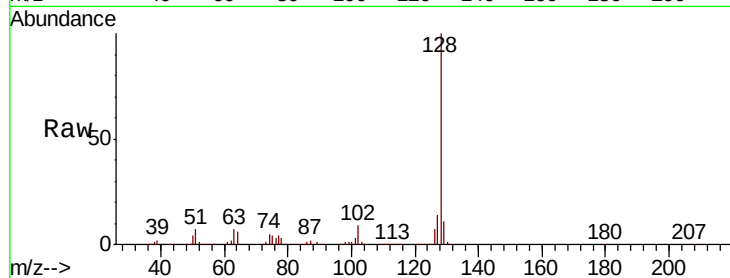
Tgt Ion:128 Resp: 1617304

Ion Ratio Lower Upper

128 100

127 13.2 10.3 15.5

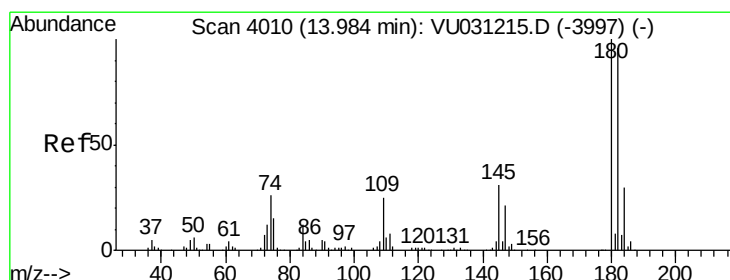
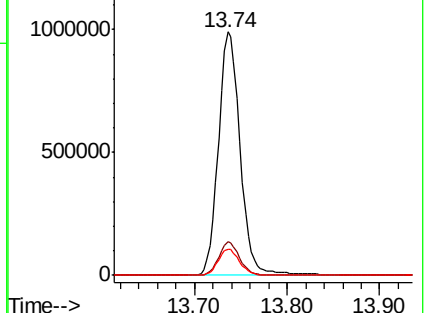
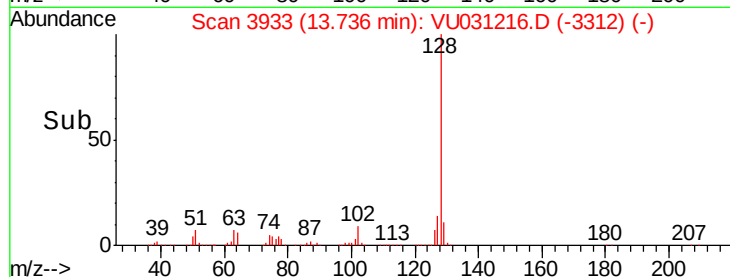
129 10.7 8.2 12.2



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: 109.005 ug/L

RT: 13.98 min Scan# 4009

Delta R.T. -0.00 min

Lab File: VU031216.D

Acq: 16 Apr 2019 17:17

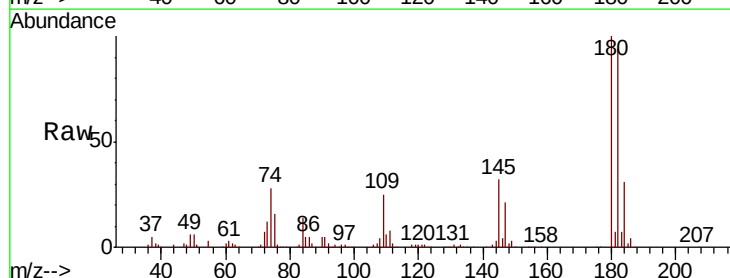
Tgt Ion:180 Resp: 509875

Ion Ratio Lower Upper

180 100

182 94.6 78.2 117.4

145 31.7 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

