

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040519\
 Data File : VU030689.D
 Acq On : 04 Apr 2019 17:15
 Operator : JC/SP
 Sample : VSTD05048
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

Quant Time: Apr 05 01:45:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Apr 05 01:40:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	482727	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	471251	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	217911	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	213647	47.98	ug/L	0.00
7) Chloroethane-d5	1.68	69	163440	48.60	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	382748	48.09	ug/L	0.00
21) 2-Butanone-d5	4.17	46	353844	108.76	ug/L	0.00
24) Chloroform-d	4.64	84	330619	50.63	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.30	65	226081	49.43	ug/L	0.00
32) Benzene-d6	5.34	84	685800	49.96	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.32	67	235727	50.02	ug/L	0.00
41) Toluene-d8	7.56	98	625967	52.05	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	110681	54.71	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	230620	116.73	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	324941	51.46	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	213181	49.06	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	204455	45.847	ug/L	100
3) Chloromethane	1.32	50	264128	45.536	ug/L	100
5) Vinyl chloride	1.40	62	262199	46.952	ug/L	100
6) Bromomethane	1.62	94	136083	47.270	ug/L	100
8) Chloroethane	1.69	64	147386	46.235	ug/L	100
9) Trichlorofluoromethane	1.88	101	302404	46.804	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	164876	45.467	ug/L	100
12) 1,1-Dichloroethene	2.28	96	165007	47.961	ug/L	100
13) Acetone	2.32	43	345964	91.697	ug/L	100
14) Carbon disulfide	2.47	76	509761	47.543	ug/L	100
15) Methyl Acetate	2.61	43	272913	50.150	ug/L	100
16) Methylene chloride	2.69	84	199593	46.700	ug/L	100
17) trans-1,2-Dichloroethene	2.98	96	173268	46.602	ug/L	100
18) Methyl tert-butyl Ether	2.99	73	585302	48.382	ug/L	100
19) 1,1-Dichloroethane	3.44	63	361398	47.785	ug/L	100
20) cis-1,2-Dichloroethene	4.22	96	191346	47.757	ug/L	100
22) 2-Butanone	4.26	43	436879	109.282	ug/L	100
23) Bromochloromethane	4.55	128	92134	48.925	ug/L	100
25) Chloroform	4.67	83	358839	46.366	ug/L	100
27) 1,2-Dichloroethane	5.40	62	274253	47.289	ug/L	100
29) Cyclohexane	4.99	56	334229	49.929	ug/L	100
30) 1,1,1-Trichloroethane	4.91	97	281132	47.872	ug/L	100
31) Carbon tetrachloride	5.13	117	242565	48.049	ug/L	100
33) Benzene	5.39	78	764239	48.924	ug/L	100
34) Trichloroethene	6.18	95	184529	47.994	ug/L	100
35) Methylcyclohexane	6.41	83	288765	50.129	ug/L	100
37) 1,2-Dichloropropane	6.43	63	213177	47.842	ug/L	100
38) Bromodichloromethane	6.75	83	257132	48.116	ug/L	100
39) cis-1,3-Dichloropropene	7.27	75	316707	53.425	ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	720913	106.222	ug/L	100

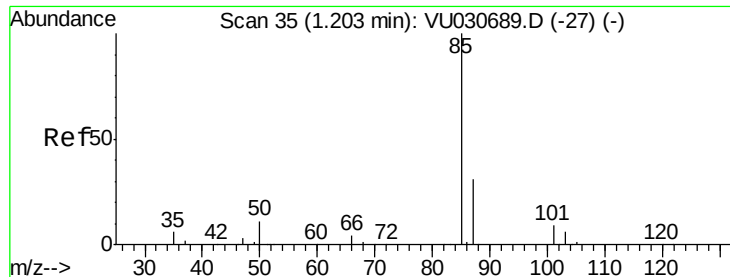
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040519\
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 QLast Update : Fri Apr 05 01:40:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.63	91	796105	50.536	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	278339	53.042	ug/L	100
45) 1,1,2-Trichloroethane	8.06	97	179088	47.683	ug/L	100
46) Tetrachloroethene	8.22	164	132414	46.854	ug/L	100
48) 2-Hexanone	8.36	43	587527	112.627	ug/L	100
49) Dibromochloromethane	8.47	129	192356	48.770	ug/L	100
50) 1,2-Dibromoethane	8.58	107	197523	48.915	ug/L	100
51) Chlorobenzene	9.12	112	472606	48.152	ug/L	100
52) Ethylbenzene	9.25	91	852047	49.869	ug/L	100
53) m,p-Xylene	9.37	106	300286	51.496	ug/L	100
54) o-xylene	9.77	106	298716	50.974	ug/L	100
55) Styrene	9.79	104	529554	53.641	ug/L	100
56) Isopropylbenzene	10.16	105	796275	51.731	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	331134	48.787	ug/L	100
59) 1,2,3-Trichloropropane	10.49	75	263475	49.933	ug/L	100
61) Bromoform	9.95	173	140085	47.916	ug/L	100
62) 1,3-Dichlorobenzene	11.41	146	338186	48.054	ug/L	100
63) 1,4-Dichlorobenzene	11.50	146	338758	47.190	ug/L	100
65) 1,2-Dichlorobenzene	11.87	146	341765	48.005	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.65	75	73388	50.055	ug/L	100
67) 1,3,5-Trichlorobenzene	12.88	180	250132	49.303	ug/L	100
68) 1,2,4-trichlorobenzene	13.50	180	220770	53.530	ug/L	100
69) Naphthalene	13.74	128	737883	58.267	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	226156	51.441	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 45.847 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU030689.D

Acq: 04 Apr 2019 17:15

Instrument :

MSVOA_U

ClientSampleId :

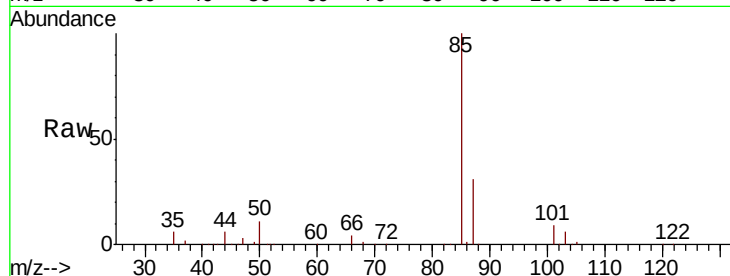
VSTD05048

Tot Ion: 85 Resp: 204455

Ion Ratio Lower Upper

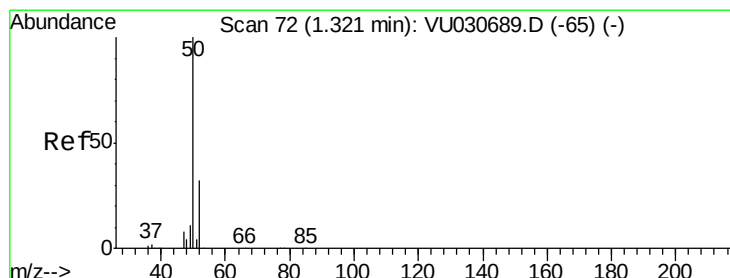
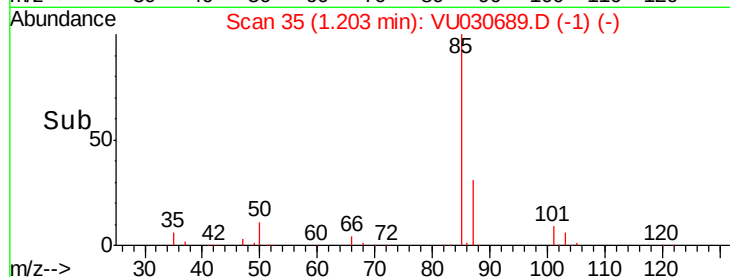
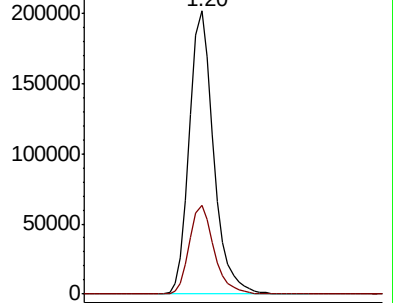
85 100

87 32.1 25.7 38.5



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

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



#3

Chloromethane

Concen: 45.536 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU030689.D

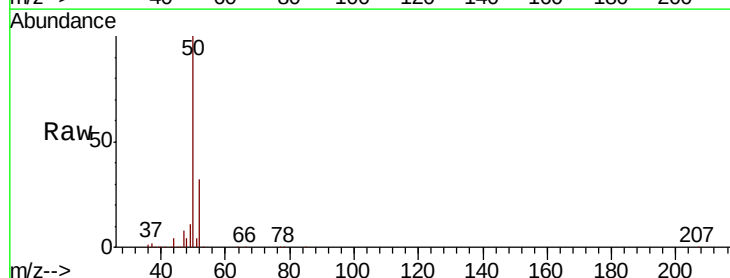
Acq: 04 Apr 2019 17:15

Tgt Ion: 50 Resp: 264128

Ion Ratio Lower Upper

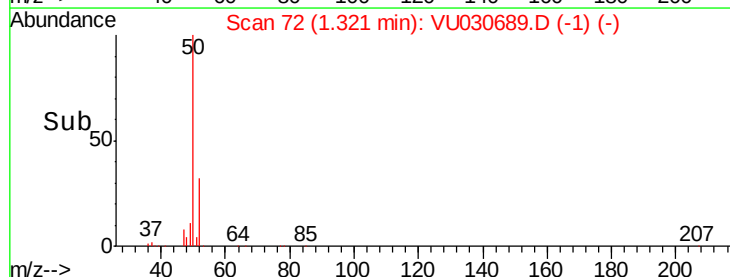
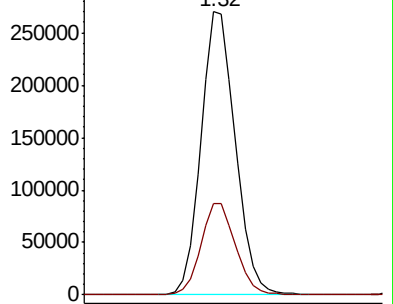
50 100

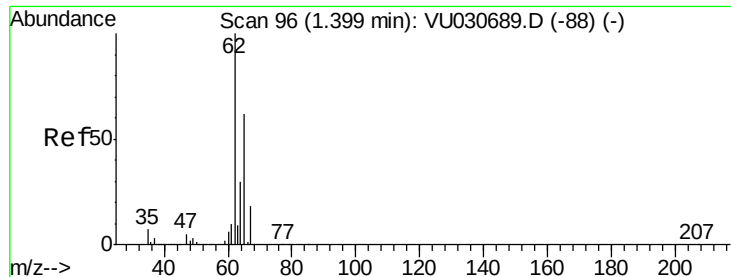
52 32.4 22.7 42.1



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

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





#5

Vinyl chloride

Concen: 46.952 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU030689.D

Acq: 04 Apr 2019 17:15

Instrument :

MSVOA_U

ClientSampleID :

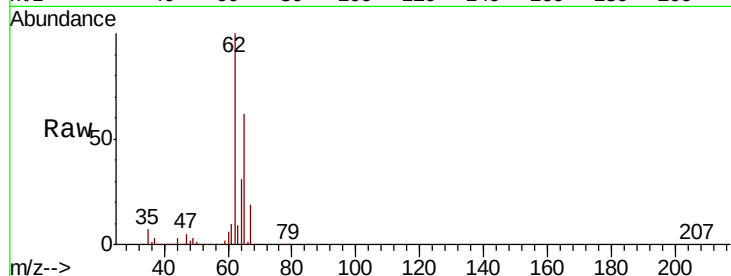
VSTD05048

Tot Ion: 62 Resp: 262199

Ion Ratio Lower Upper

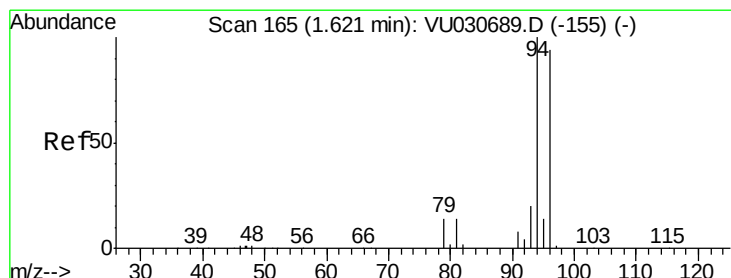
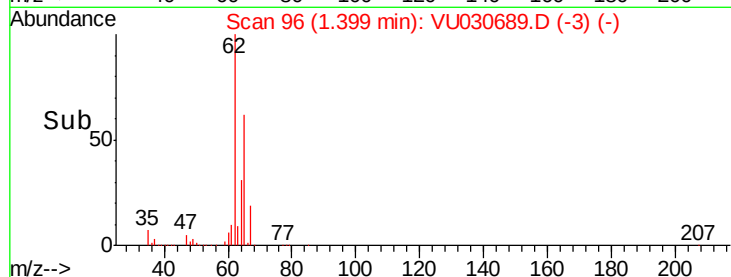
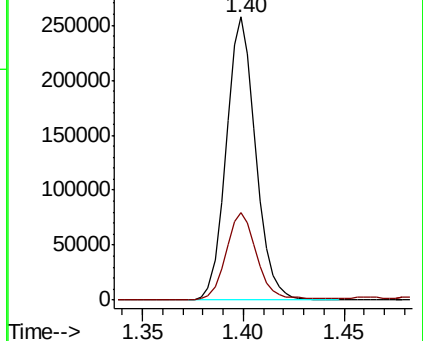
62 100

64 30.7 21.5 39.9



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

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



#6

Bromomethane

Concen: 47.270 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU030689.D

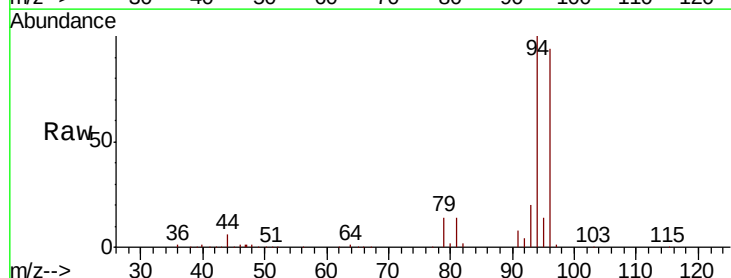
Acq: 04 Apr 2019 17:15

Tgt Ion: 94 Resp: 136083

Ion Ratio Lower Upper

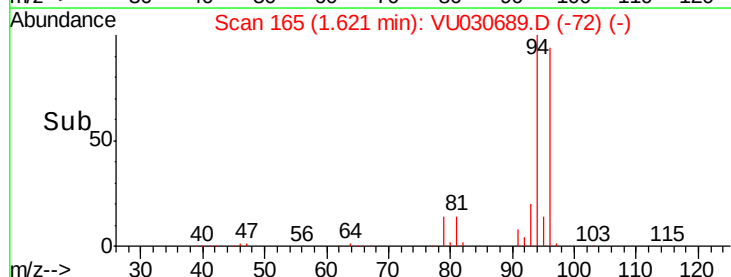
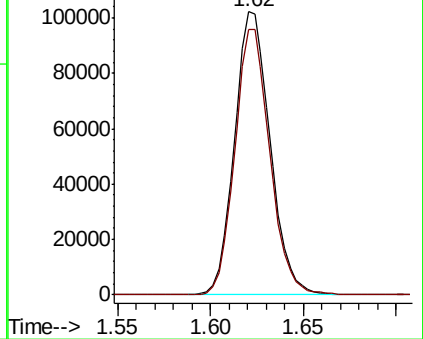
94 100

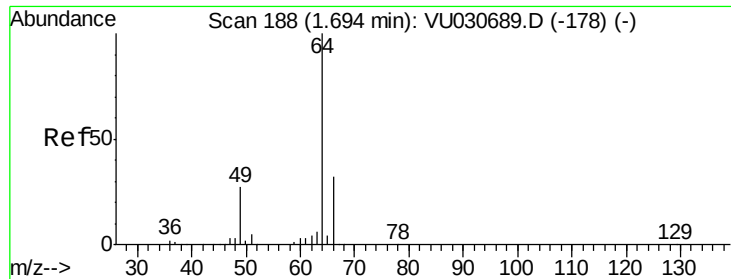
96 93.6 65.5 121.7



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

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

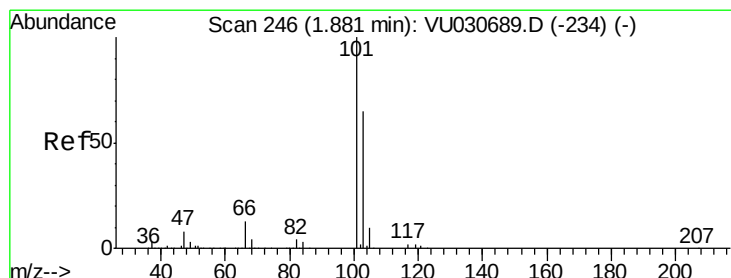
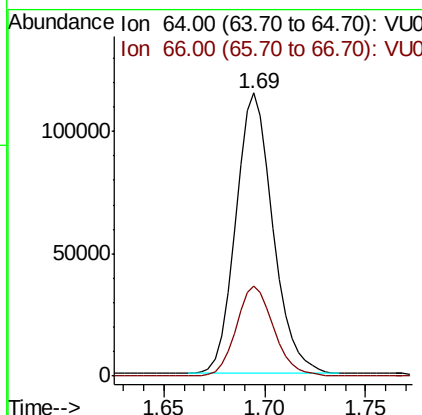
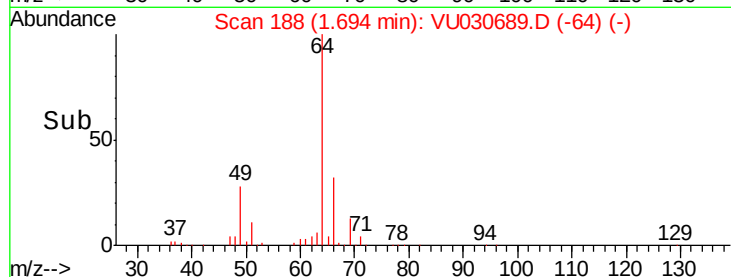
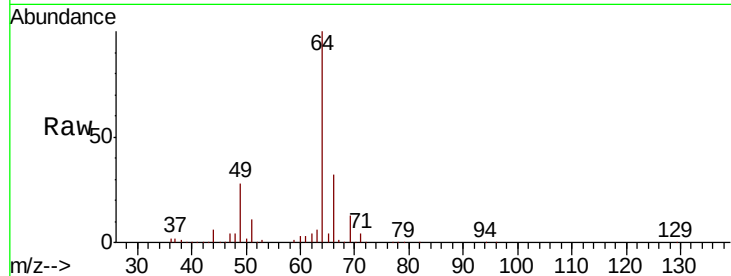




#8
Chloroethane
Concen: 46.235 ug/L
RT: 1.69 min Scan# 188
Delta R.T. 0.00 min
Lab File: VU030689.D
Acq: 04 Apr 2019 17:15

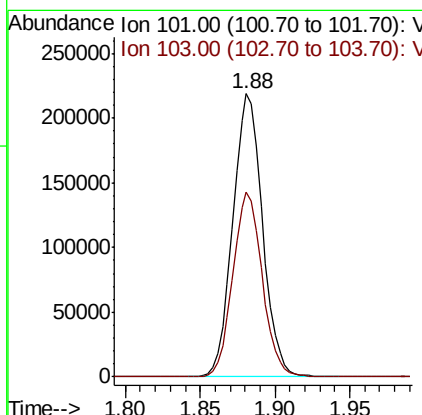
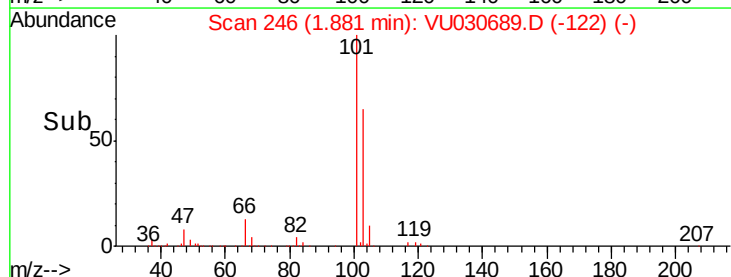
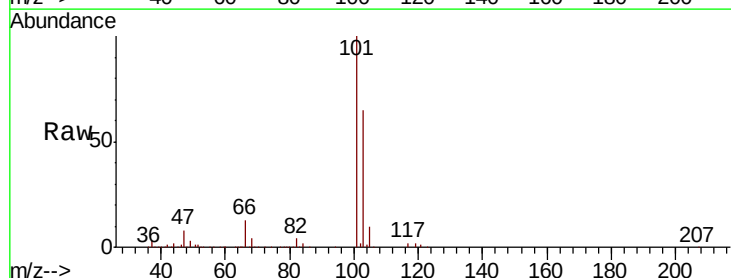
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

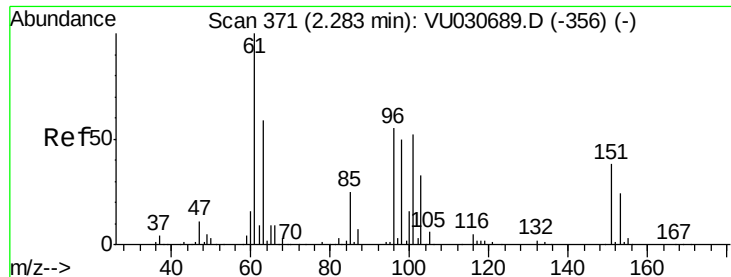
Tot Ion: 64 Resp: 147386
Ion Ratio Lower Upper
64 100
66 32.0 22.4 41.6



#9
Trichlorofluoromethane
Concen: 46.804 ug/L
RT: 1.88 min Scan# 246
Delta R.T. 0.00 min
Lab File: VU030689.D
Acq: 04 Apr 2019 17:15

Tgt Ion:101 Resp: 302404
Ion Ratio Lower Upper
101 100
103 64.8 51.8 77.8





#10

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

Concen: 45.467 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU030689.D

Acq: 04 Apr 2019 17:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

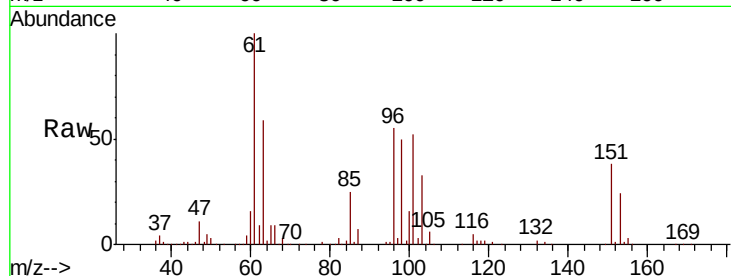
Tot Ion:101 Resp: 164876

Ion Ratio Lower Upper

101 100

85 46.0 36.8 55.2

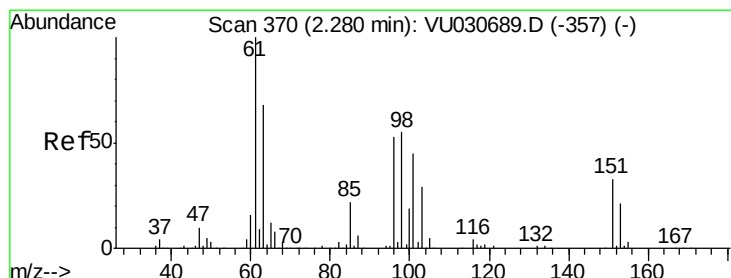
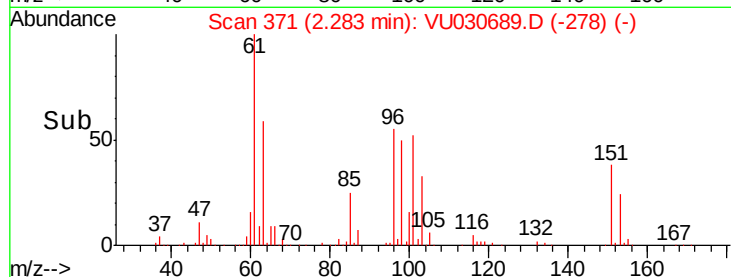
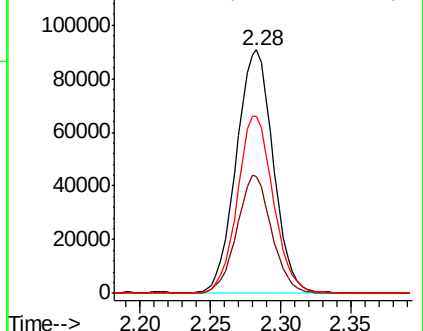
151 71.7 57.4 86.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 47.961 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU030689.D

Acq: 04 Apr 2019 17:15

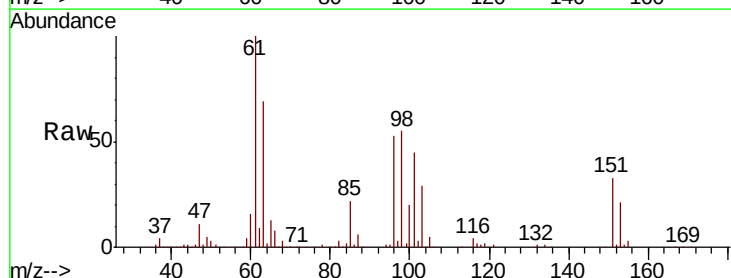
Tgt Ion: 96 Resp: 165007

Ion Ratio Lower Upper

96 100

61 188.6 132.0 245.2

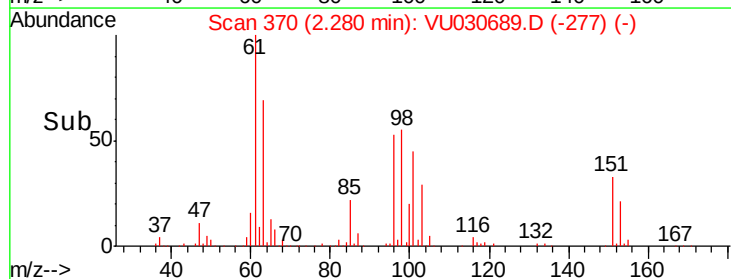
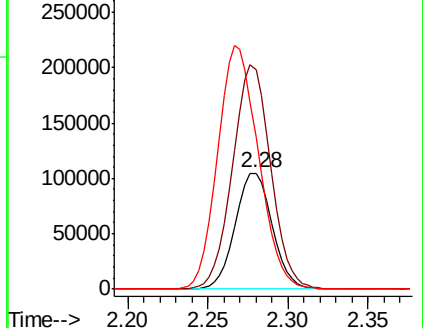
63 129.9 90.9 168.9

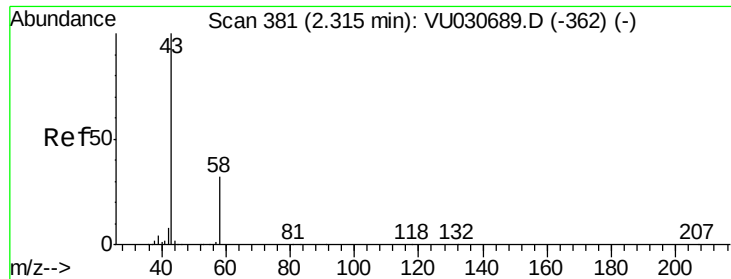


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 91.697 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VU030689.D

Acq: 04 Apr 2019 17:15

Instrument :

MSVOA_U

ClientSampleId :

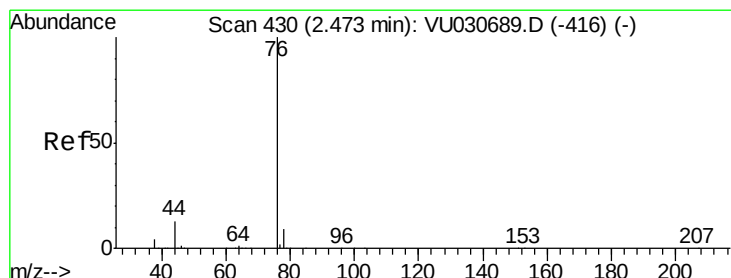
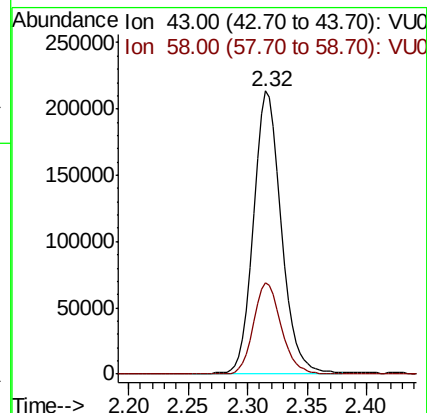
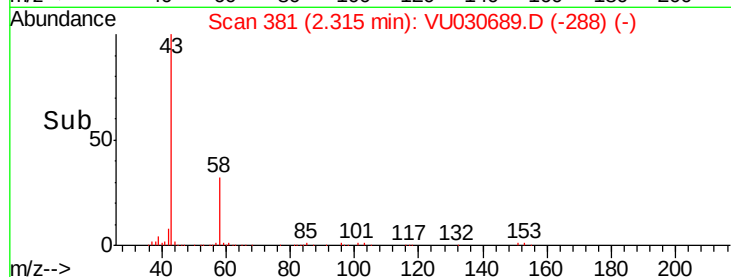
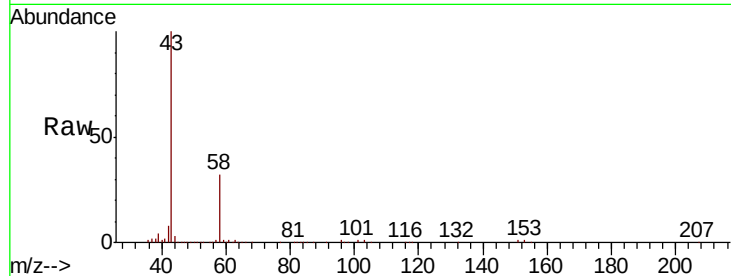
VSTD05048

Tot Ion: 43 Resp: 345964

Ion Ratio Lower Upper

43 100

58 32.0 0.0 64.0



#14

Carbon disulfide

Concen: 47.543 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU030689.D

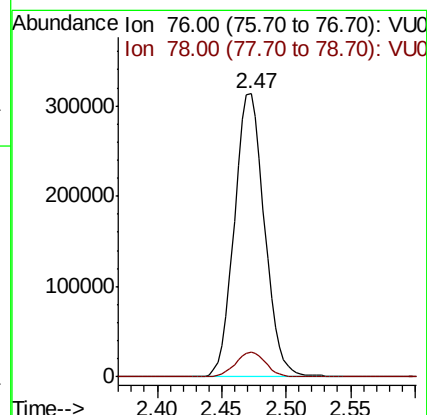
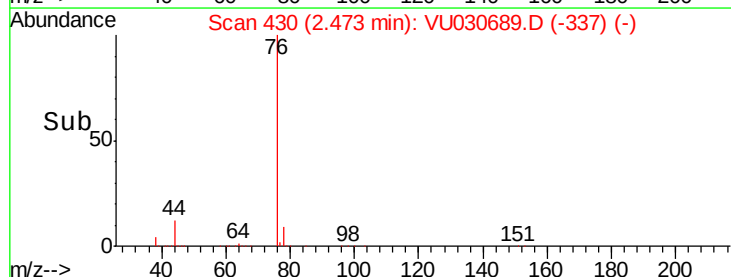
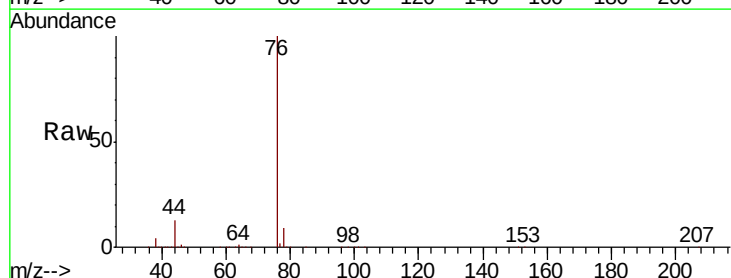
Acq: 04 Apr 2019 17:15

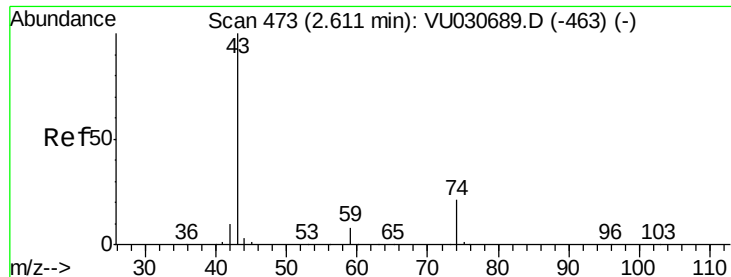
Tgt Ion: 76 Resp: 509761

Ion Ratio Lower Upper

76 100

78 8.7 7.0 10.4

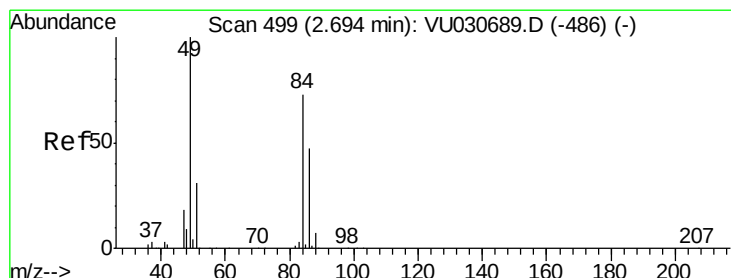
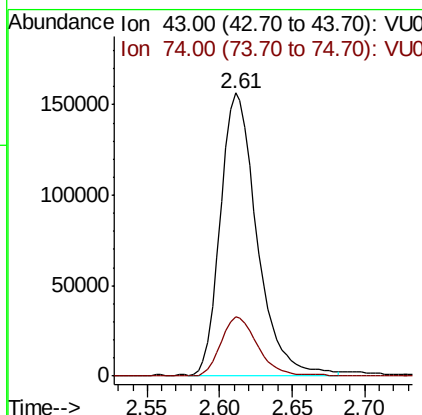
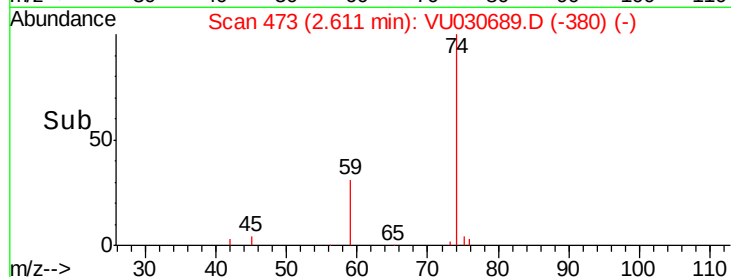
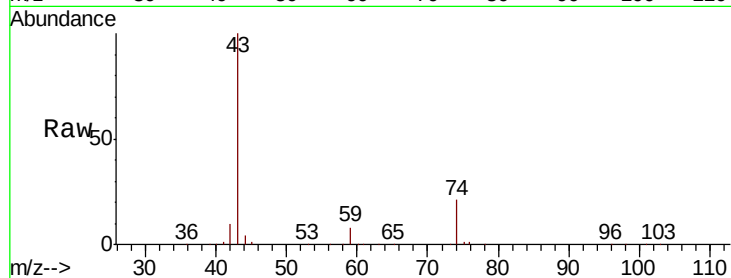




#15
Methyl Acetate
Concen: 50.150 ug/L
RT: 2.61 min Scan# 473
Delta R.T. 0.00 min
Lab File: VU030689.D
Acq: 04 Apr 2019 17:15

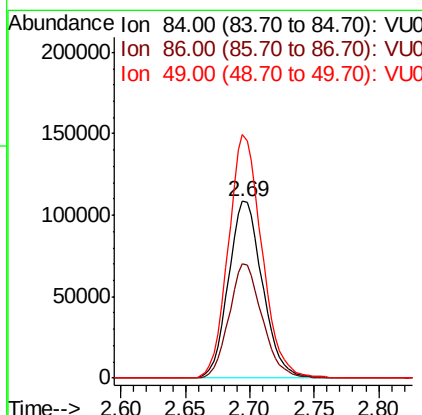
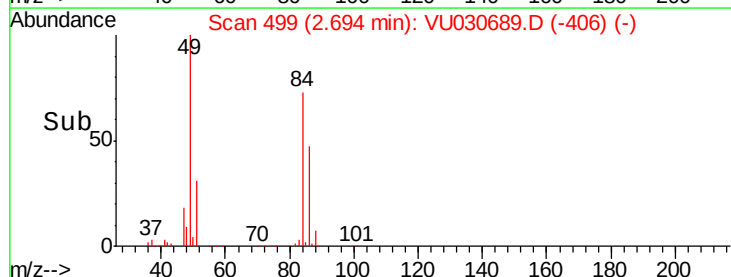
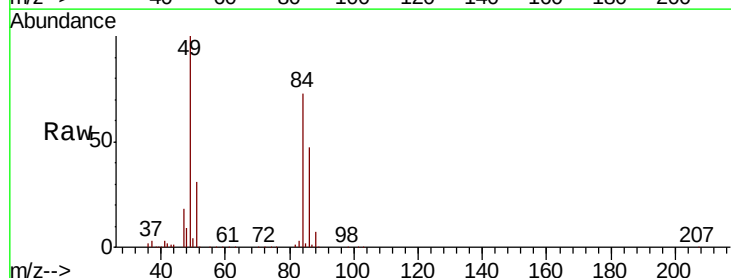
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

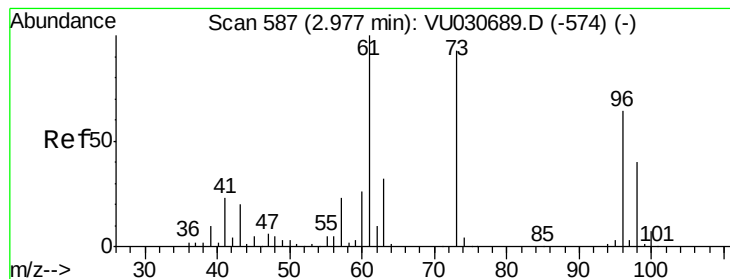
Tot Ion: 43 Resp: 272913
Ion Ratio Lower Upper
43 100
74 21.4 17.1 25.7



#16
Methylene chloride
Concen: 46.700 ug/L
RT: 2.69 min Scan# 499
Delta R.T. 0.00 min
Lab File: VU030689.D
Acq: 04 Apr 2019 17:15

Tgt Ion: 84 Resp: 199593
Ion Ratio Lower Upper
84 100
86 64.4 45.1 83.7
49 137.8 96.5 179.1





#17

trans-1,2-Dichloroethene

Concen: 46.602 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU030689.D

Acq: 04 Apr 2019 17:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

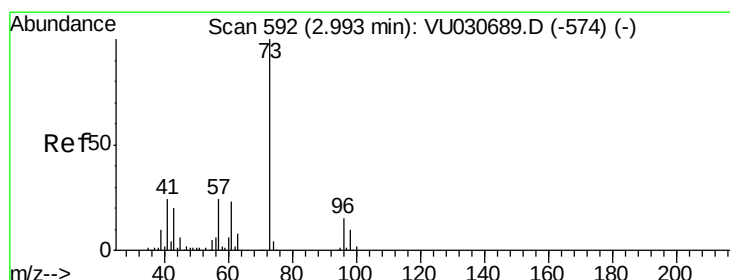
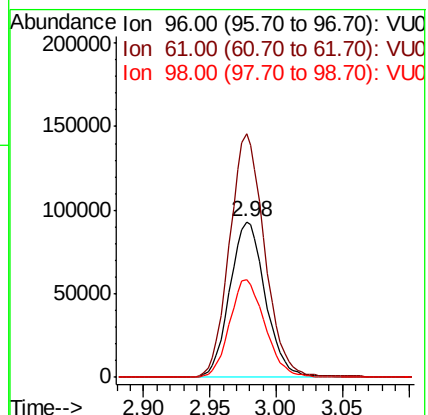
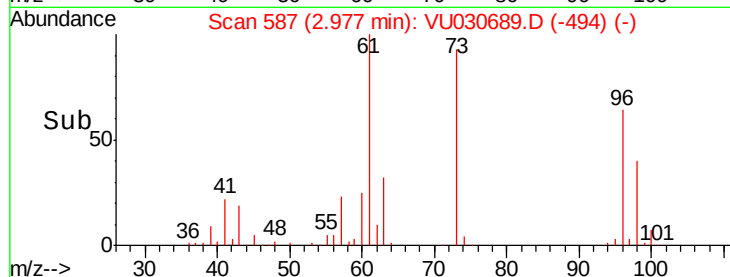
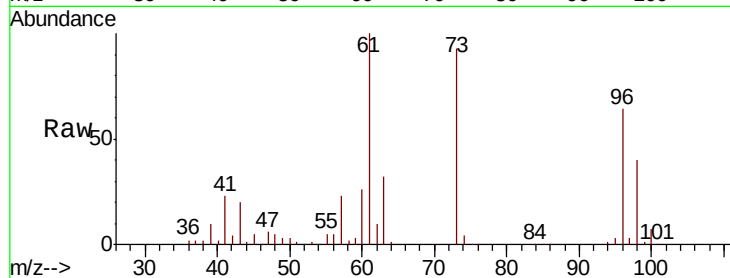
Tot Ion: 96 Resp: 173268

Ion Ratio Lower Upper

96 100

61 156.4 109.5 203.3

98 62.8 44.0 81.6



#18

Methyl tert-butyl Ether

Concen: 48.382 ug/L

RT: 2.99 min Scan# 592

Delta R.T. 0.00 min

Lab File: VU030689.D

Acq: 04 Apr 2019 17:15

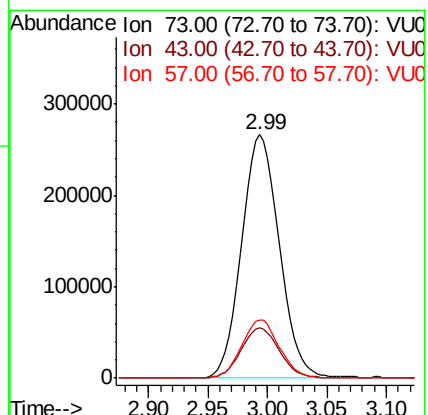
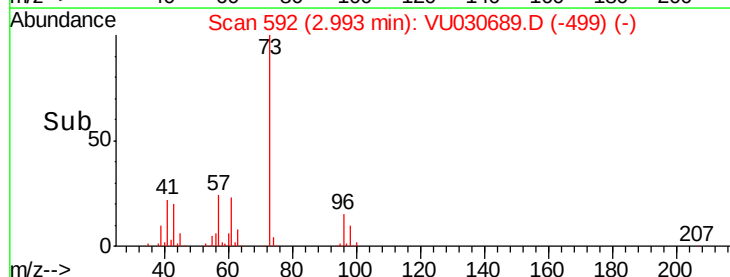
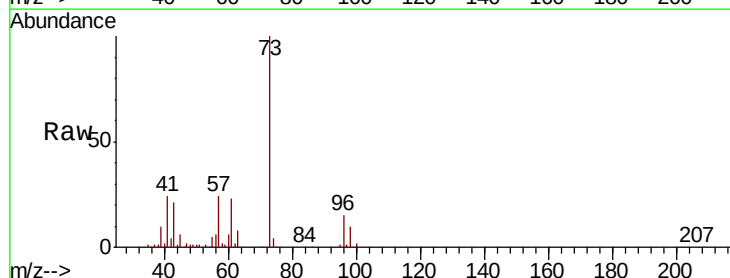
Tgt Ion: 73 Resp: 585302

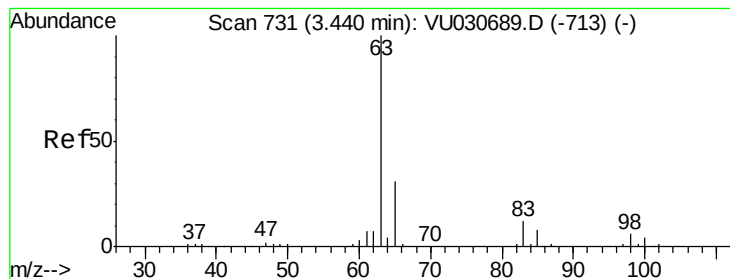
Ion Ratio Lower Upper

73 100

43 20.5 16.4 24.6

57 23.7 19.0 28.4





#19

1,1-Dichloroethane

Concen: 47.785 ug/L

RT: 3.44 min Scan# 731

Delta R.T. 0.00 min

Lab File: VU030689.D

Acq: 04 Apr 2019 17:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

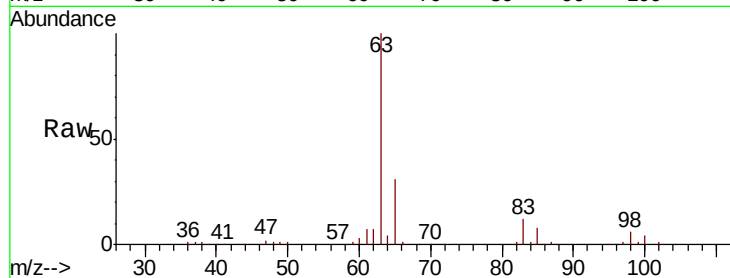
Tot Ion: 63 Resp: 361398

Ion Ratio Lower Upper

63 100

65 30.6 21.4 39.8

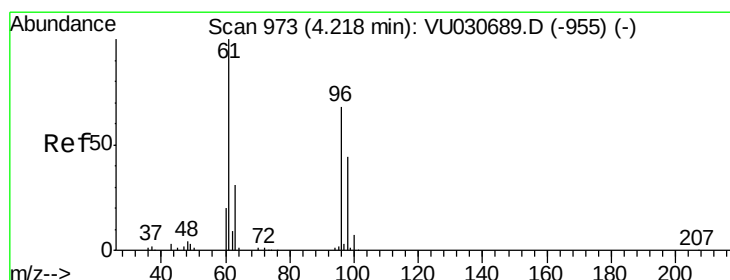
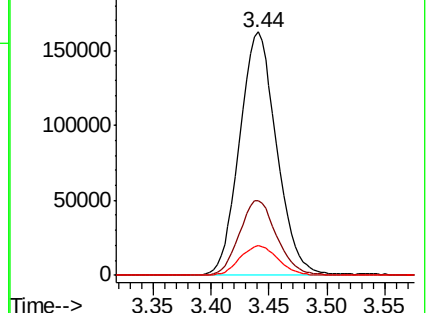
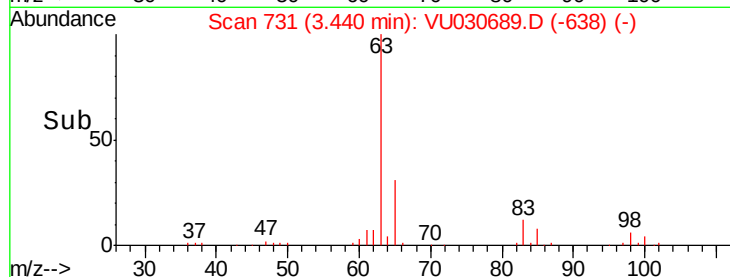
83 12.1 8.5 15.7



Abundance Ion 63.00 (62.70 to 63.70): VU030689.D (-713) (-)

Ion 65.00 (64.70 to 65.70): VU030689.D (-713) (-)

Ion 83.00 (82.70 to 83.70): VU030689.D (-713) (-)



#20

cis-1,2-Dichloroethene

Concen: 47.757 ug/L

RT: 4.22 min Scan# 973

Delta R.T. 0.00 min

Lab File: VU030689.D

Acq: 04 Apr 2019 17:15

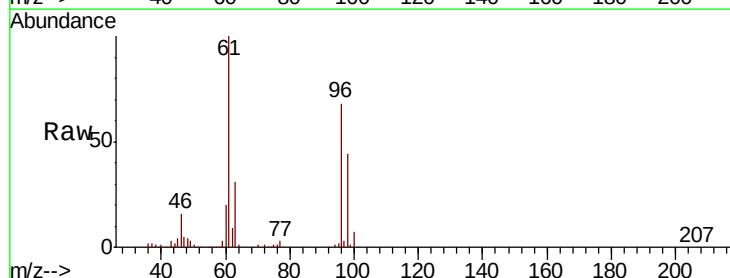
Tgt Ion: 96 Resp: 191346

Ion Ratio Lower Upper

96 100

61 147.0 102.9 191.1

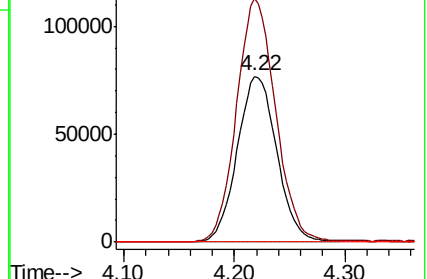
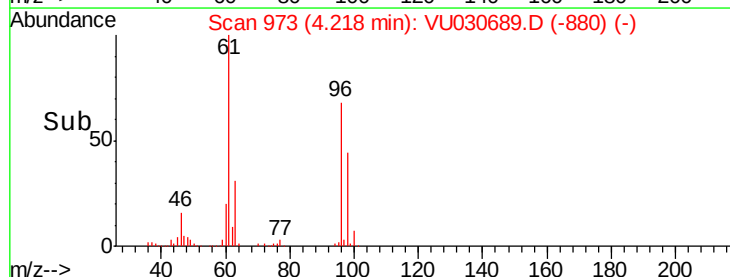
68 0.0 0.0 0.0

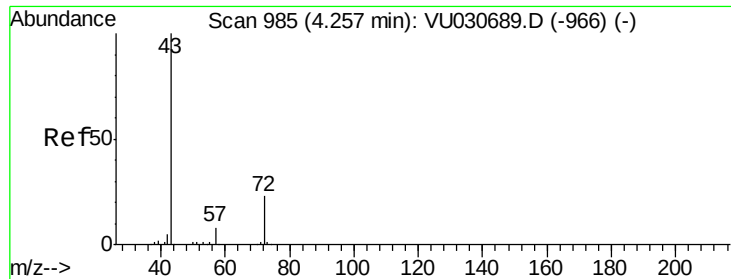


Abundance Ion 96.00 (95.70 to 96.70): VU030689.D (-955) (-)

Ion 61.00 (60.70 to 61.70): VU030689.D (-955) (-)

Ion 68.00 (67.70 to 68.70): VU030689.D (-955) (-)





#22

2-Butanone

Concen: 109.282 ug/L

RT: 4.26 min Scan# 985

Delta R.T. 0.00 min

Lab File: VU030689.D

Acq: 04 Apr 2019 17:15

Instrument :

MSVOA_U

ClientSampleId :

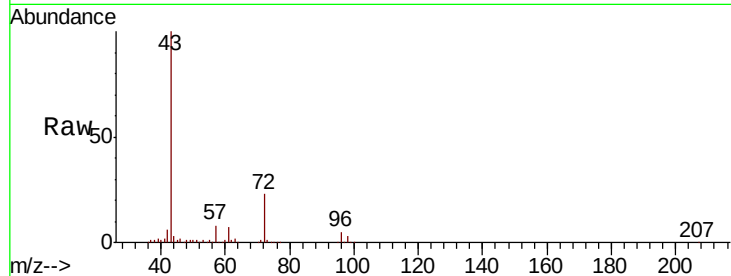
VSTD05048

Tot Ion: 43 Resp: 436879

Ion Ratio Lower Upper

43 100

72 21.6 10.8 32.4



Abundance Ion 43.00 (42.70 to 43.70): VU030689.D (-966) (-)

Ion 72.00 (71.70 to 72.70): VU030689.D (-966) (-)

4.26

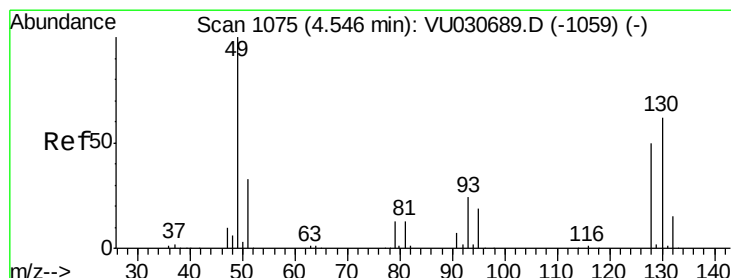
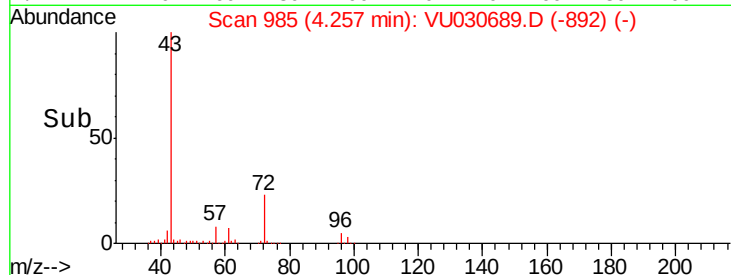
150000

100000

50000

0

Time--> 4.10 4.20 4.30 4.40



#23

Bromochloromethane

Concen: 48.925 ug/L

RT: 4.55 min Scan# 1075

Delta R.T. 0.00 min

Lab File: VU030689.D

Acq: 04 Apr 2019 17:15

Tgt Ion: 128 Resp: 92134

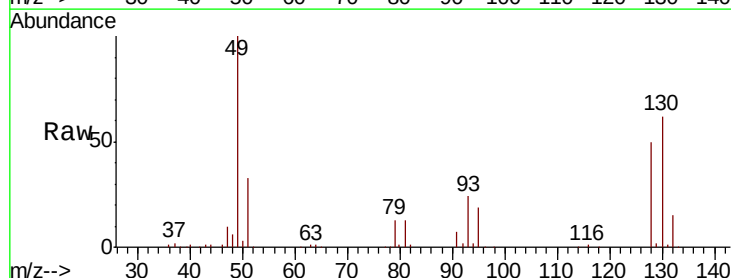
Ion Ratio Lower Upper

128 100

49 199.8 139.9 259.7

130 123.7 86.6 160.8

51 65.3 52.2 78.4



Abundance Ion 128.00 (127.70 to 128.70): VU030689.D (-1059) (-)

Ion 49.00 (48.70 to 49.70): VU030689.D (-1059) (-)

Ion 130.00 (129.70 to 130.70): VU030689.D (-1059) (-)

Ion 51.00 (50.70 to 51.70): VU030689.D (-1059) (-)

120000

100000

80000

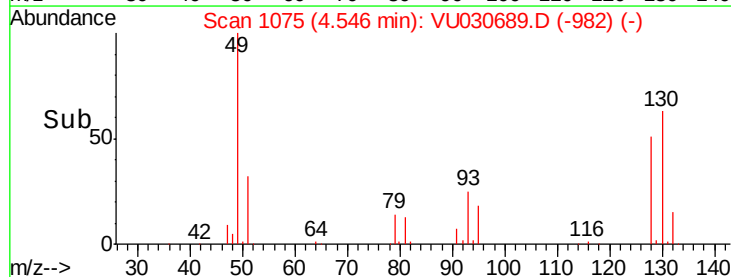
60000

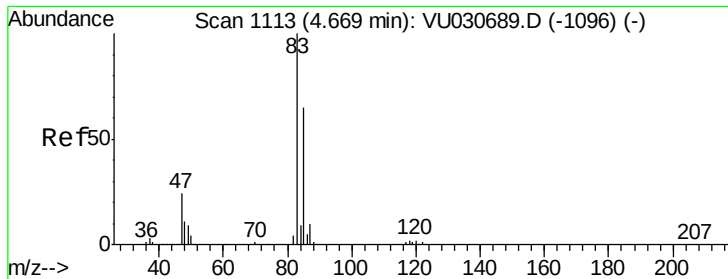
40000

20000

0

Time--> 4.45 4.50 4.55 4.60 4.65

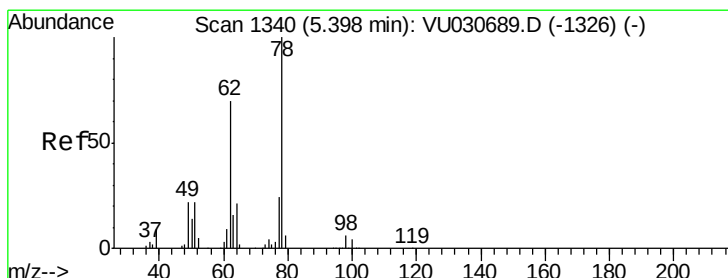
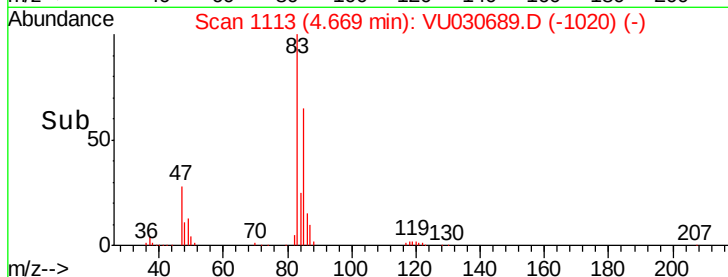
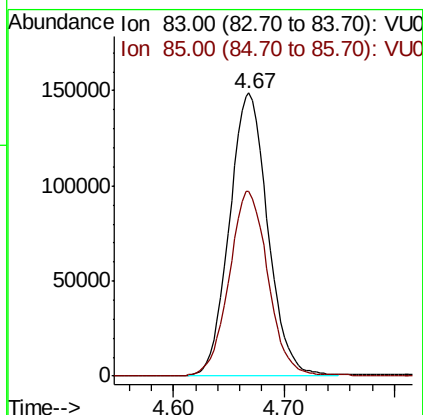
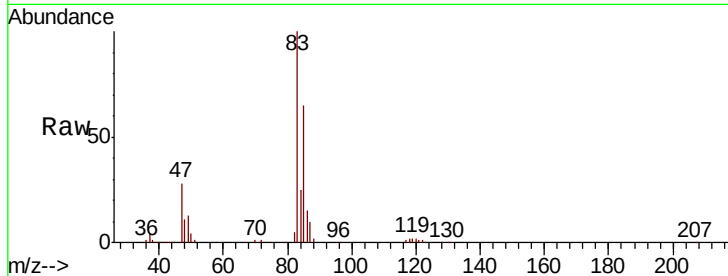




#25
Chloroform
Concen: 46.366 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VU030689.D
Acq: 04 Apr 2019 17:15

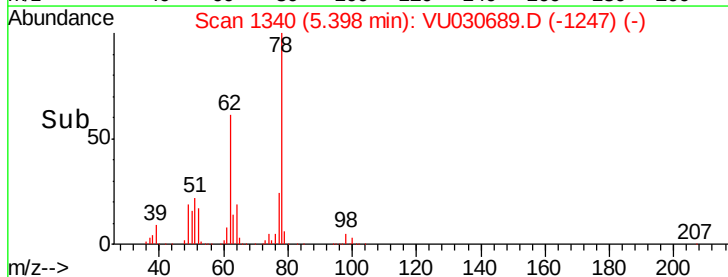
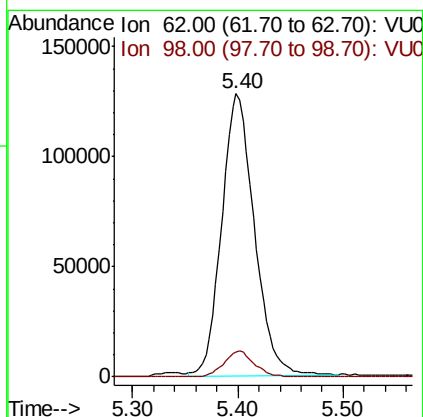
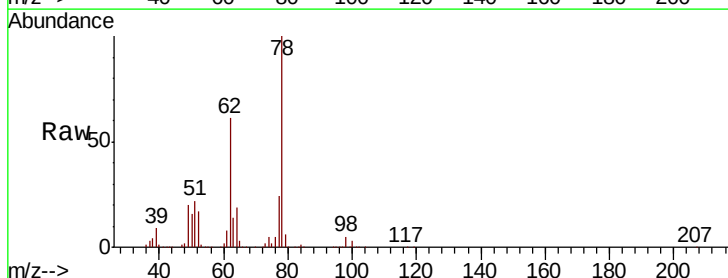
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

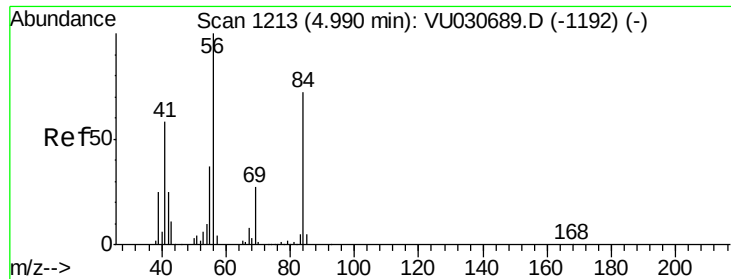
Tot Ion: 83 Resp: 358839
Ion Ratio Lower Upper
83 100
85 65.4 45.8 85.0



#27
1,2-Dichloroethane
Concen: 47.289 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VU030689.D
Acq: 04 Apr 2019 17:15

Tgt Ion: 62 Resp: 274253
Ion Ratio Lower Upper
62 100
98 9.0 7.2 10.8

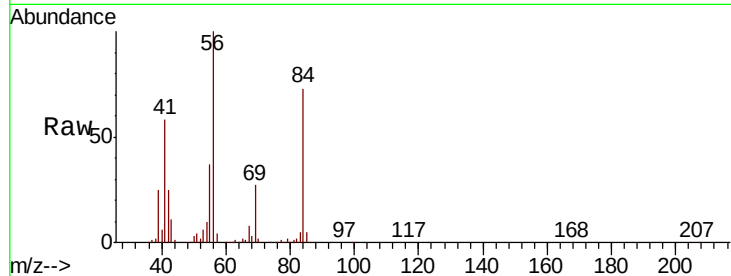




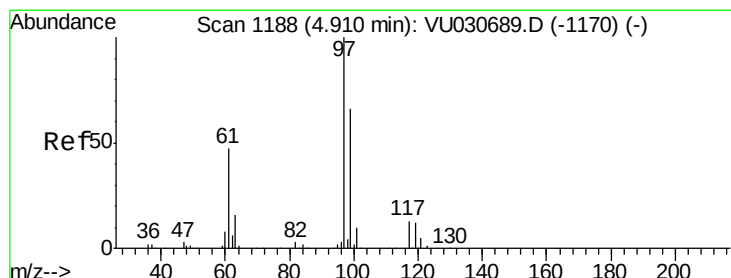
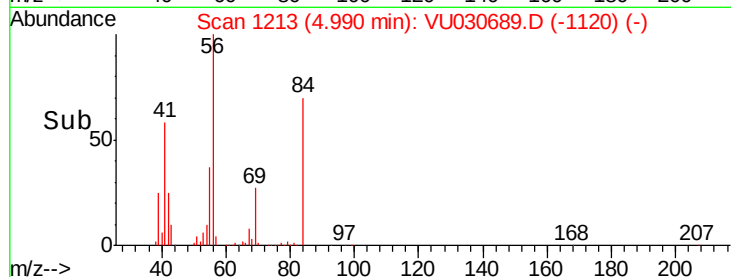
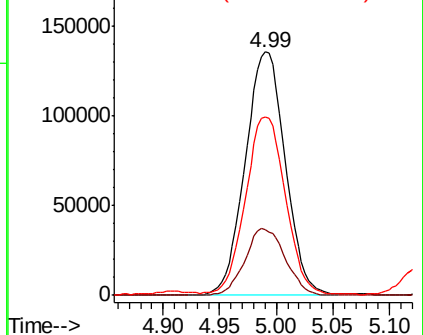
#29
Cyclohexane
Concen: 49.929 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. 0.00 min
Lab File: VU030689.D
Acq: 04 Apr 2019 17:15

Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

Tot Ion: 56 Resp: 334229
Ion Ratio Lower Upper
56 100
69 27.5 22.0 33.0
84 72.7 58.2 87.2

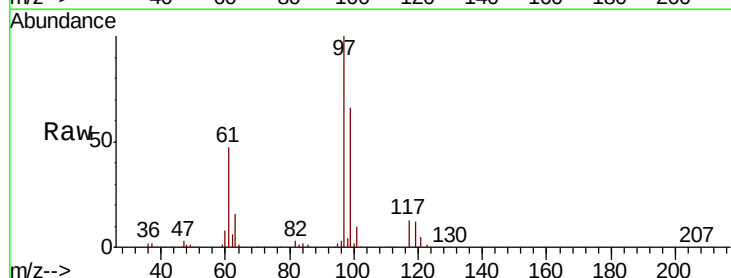


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

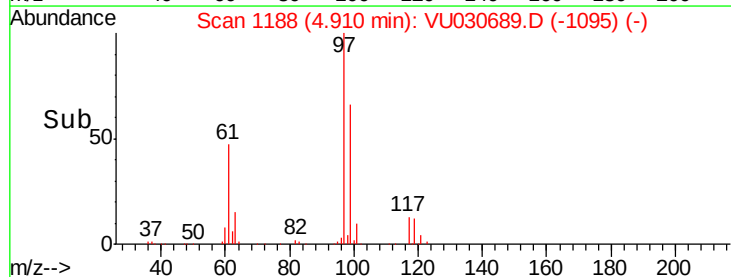
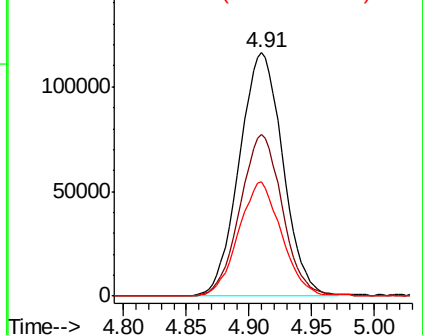


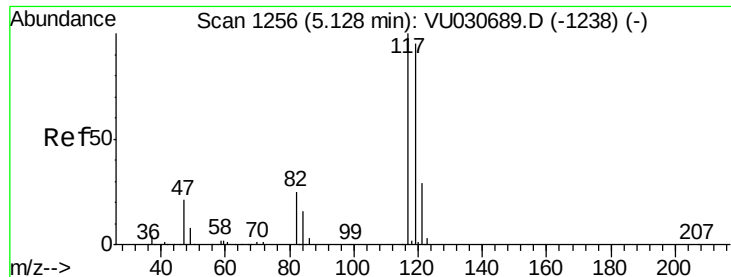
#30
1,1,1-Trichloroethane
Concen: 47.872 ug/L
RT: 4.91 min Scan# 1188
Delta R.T. 0.00 min
Lab File: VU030689.D
Acq: 04 Apr 2019 17:15

Tgt Ion: 97 Resp: 281132
Ion Ratio Lower Upper
97 100
99 64.3 51.4 77.2
61 46.4 37.1 55.7



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





#31

Carbon tetrachloride

Concen: 48.049 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VU030689.D

Acq: 04 Apr 2019 17:15

Instrument :

MSVOA_U

ClientSampleId :

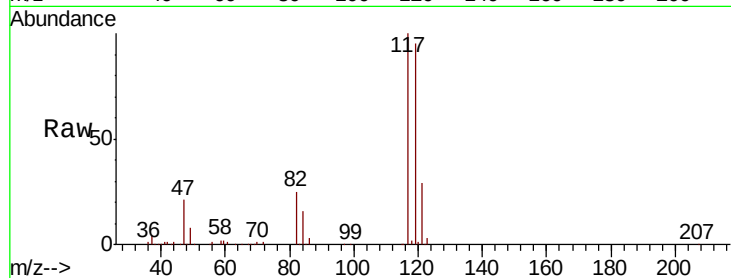
VSTD05048

Tot Ion:117 Resp: 242565

Ion Ratio Lower Upper

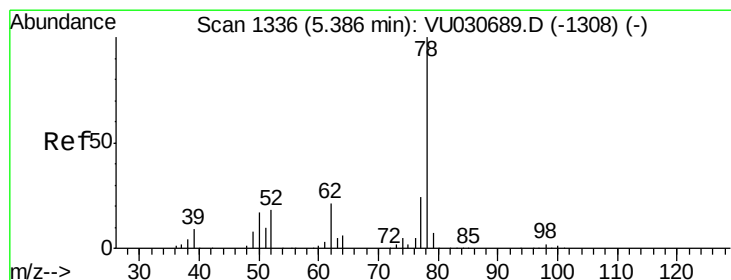
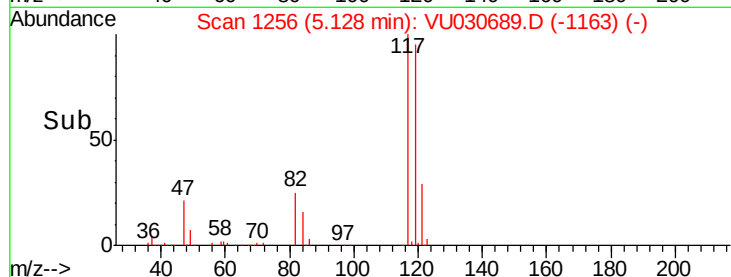
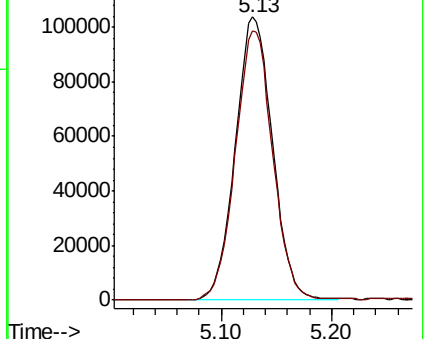
117 100

119 95.2 76.2 114.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 48.924 ug/L

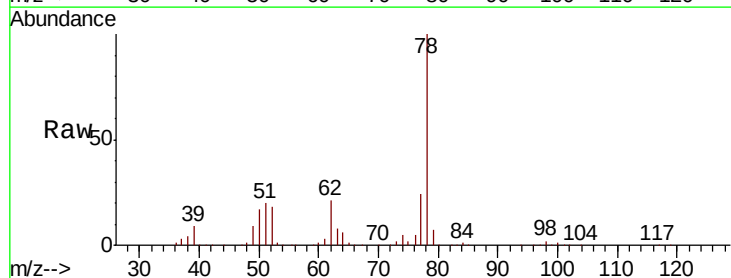
RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

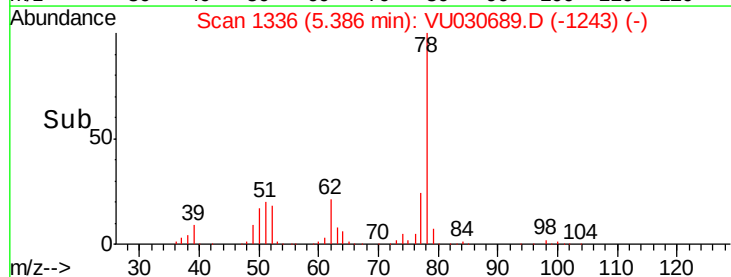
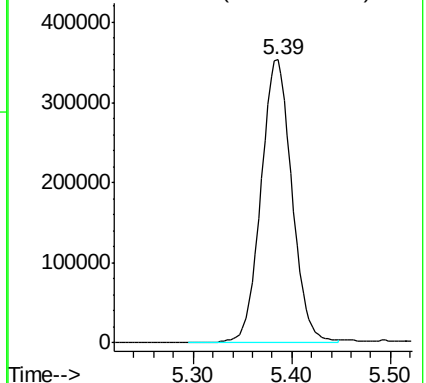
Lab File: VU030689.D

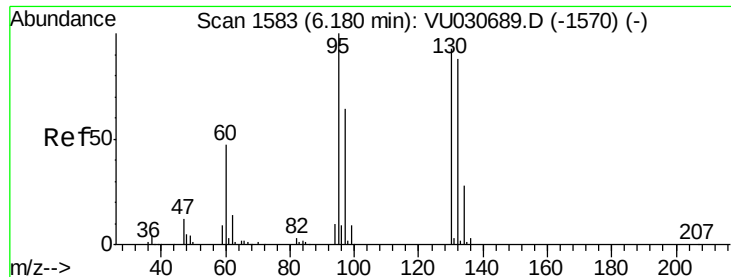
Acq: 04 Apr 2019 17:15

Tgt Ion: 78 Resp: 764239



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 47.994 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU030689.D

Acq: 04 Apr 2019 17:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

Tot Ion: 95 Resp: 184529

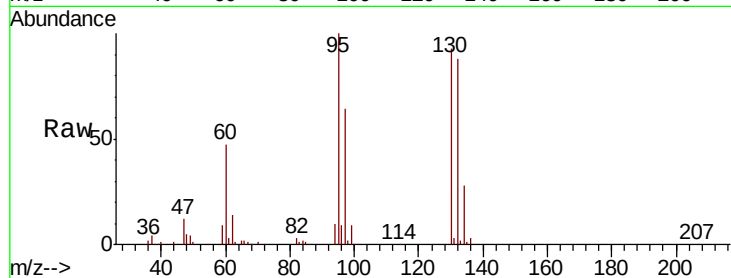
Ion Ratio Lower Upper

95 100

97 63.6 44.5 82.7

132 87.8 61.5 114.1

130 92.7 64.9 120.5



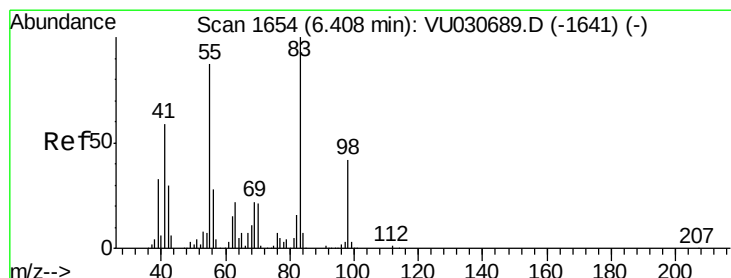
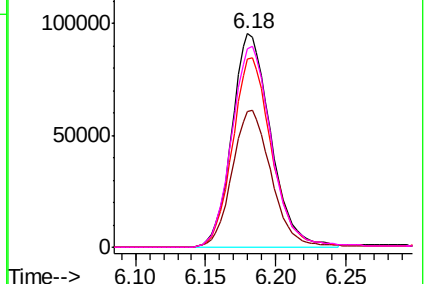
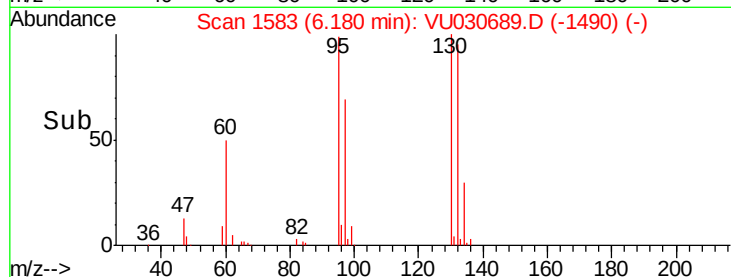
Abundance

Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 50.129 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VU030689.D

Acq: 04 Apr 2019 17:15

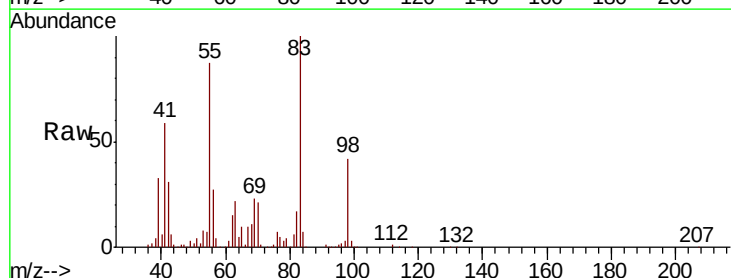
Tgt Ion: 83 Resp: 288765

Ion Ratio Lower Upper

83 100

55 89.5 71.6 107.4

98 44.2 35.4 53.0

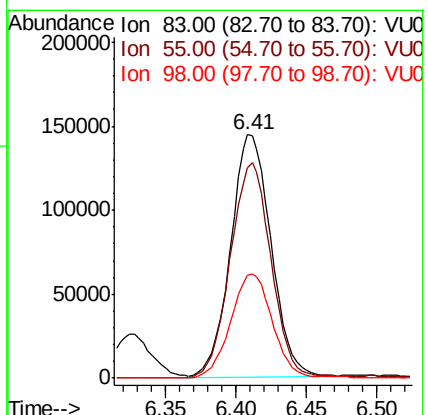
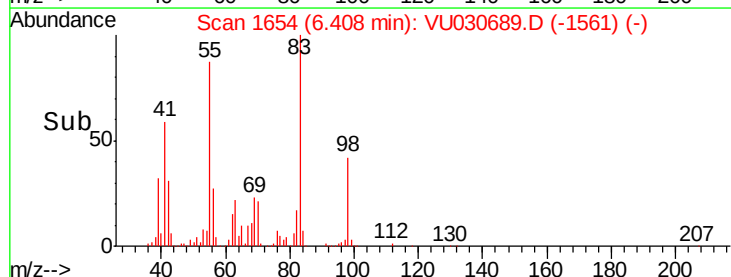


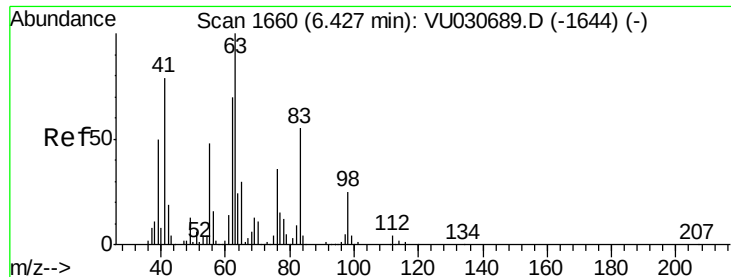
Abundance

Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

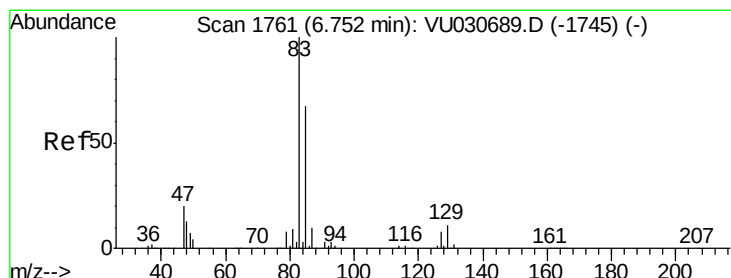
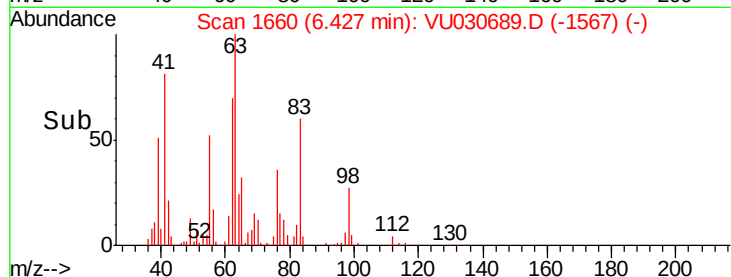
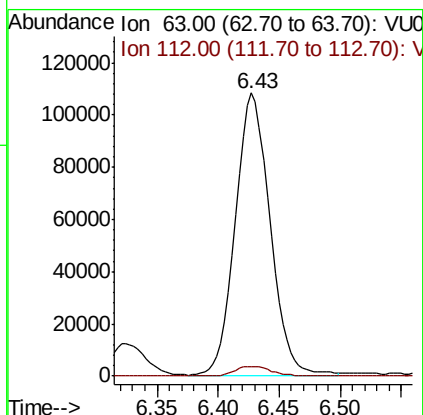
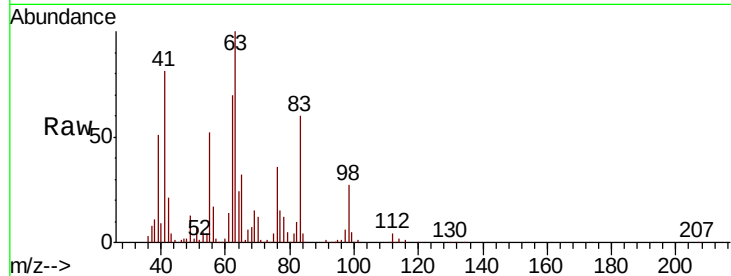




#37
 1,2-Dichloropropane
 Concen: 47.842 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU030689.D
 Acq: 04 Apr 2019 17:15

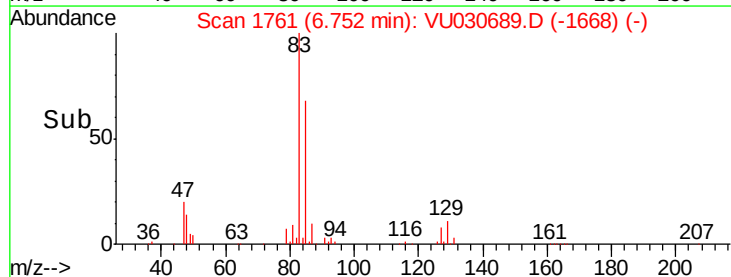
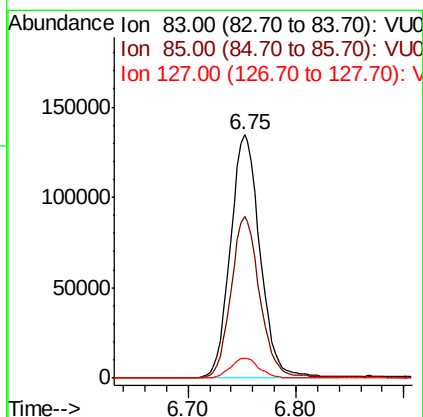
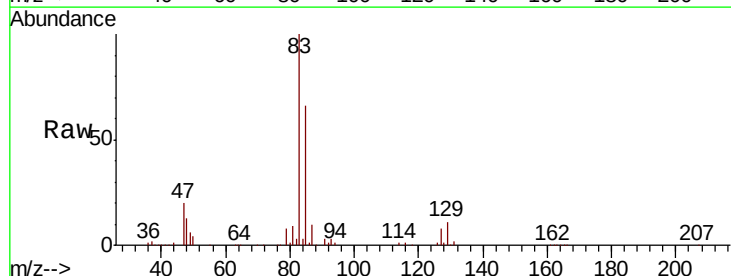
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

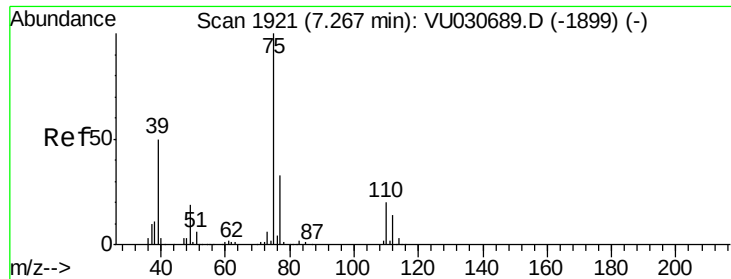
Tot Ion: 63 Resp: 213177
 Ion Ratio Lower Upper
 63 100
 112 3.7 3.0 4.4



#38
 Bromodichloromethane
 Concen: 48.116 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. 0.00 min
 Lab File: VU030689.D
 Acq: 04 Apr 2019 17:15

Tgt Ion: 83 Resp: 257132
 Ion Ratio Lower Upper
 83 100
 85 66.4 46.5 86.3
 127 8.3 6.6 10.0

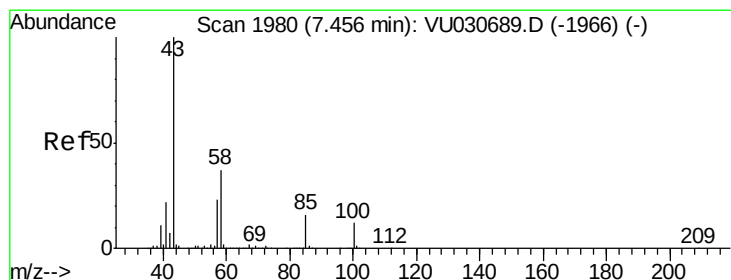
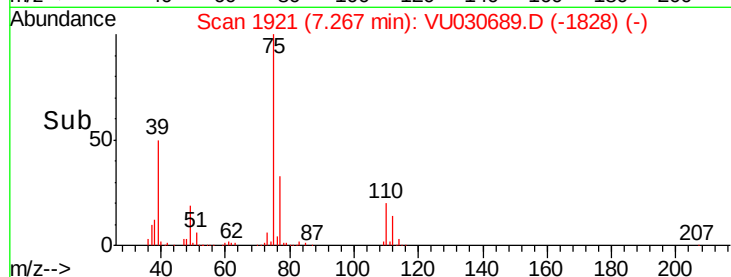
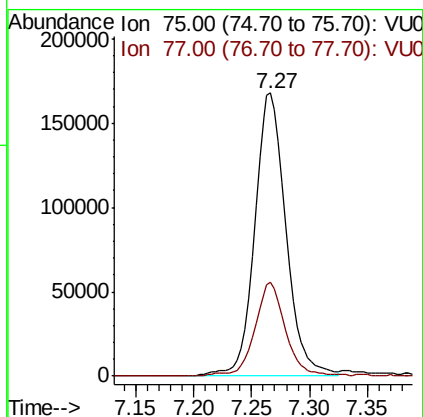
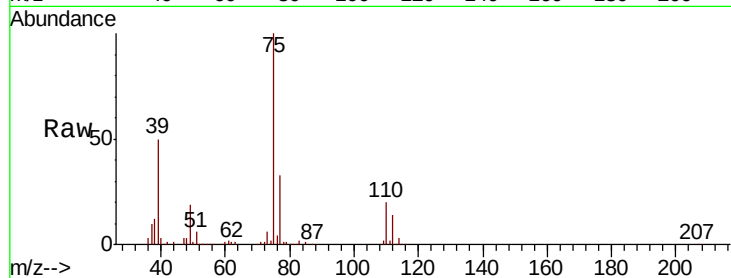




#39
 cis-1,3-Dichloropropene
 Concen: 53.425 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU030689.D
 Acq: 04 Apr 2019 17:15

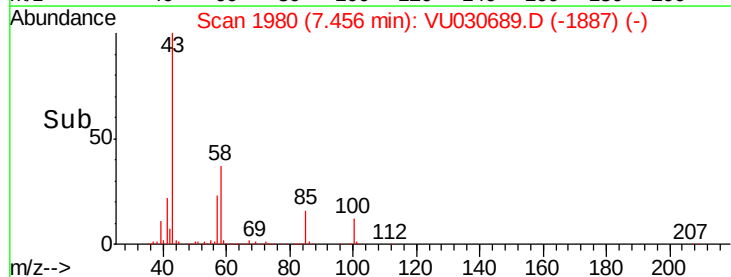
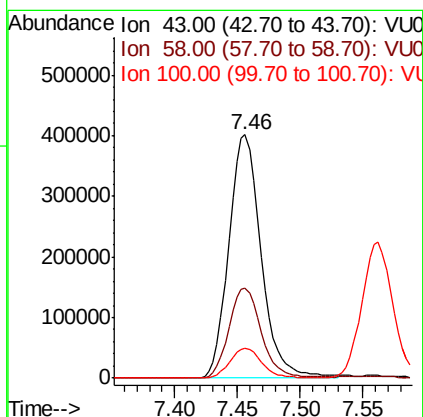
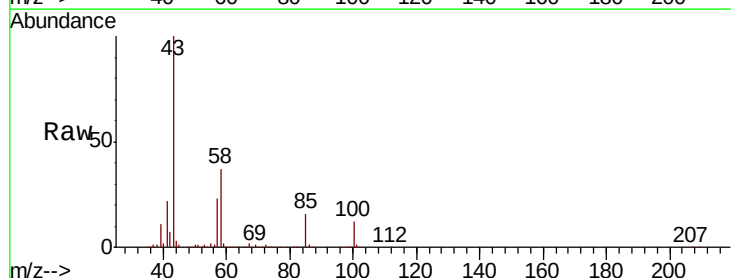
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

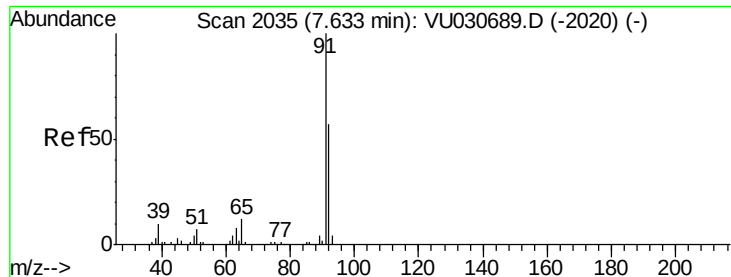
Tot Ion: 75 Resp: 316707
 Ion Ratio Lower Upper
 75 100
 77 33.0 23.1 42.9



#40
 4-Methyl-2-pentanone
 Concen: 106.222 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VU030689.D
 Acq: 04 Apr 2019 17:15

Tgt Ion: 43 Resp: 720913
 Ion Ratio Lower Upper
 43 100
 58 37.1 29.7 44.5
 100 12.2 9.8 14.6





#42

Toluene

Concen: 50.536 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU030689.D

Acq: 04 Apr 2019 17:15

Instrument :

MSVOA_U

ClientSampleId :

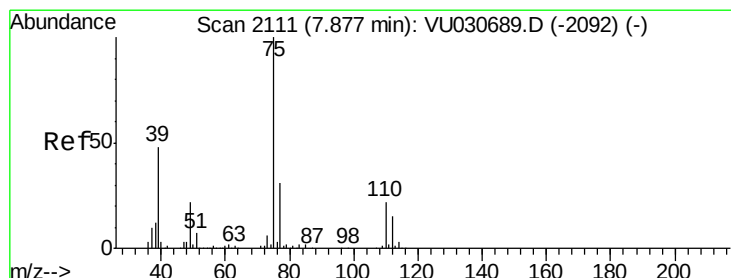
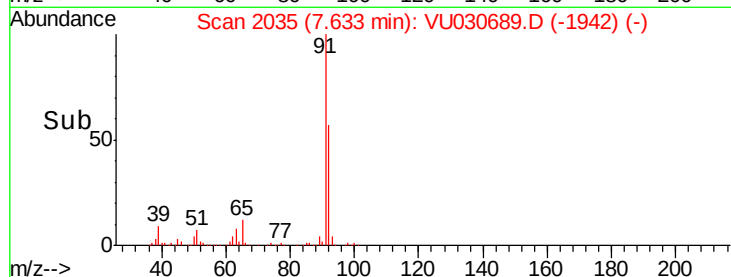
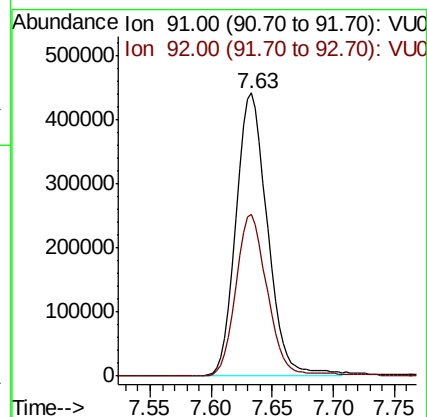
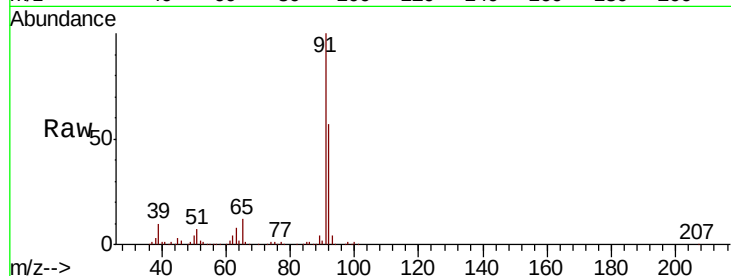
VSTD05048

Tot Ion: 91 Resp: 796105

Ion Ratio Lower Upper

91 100

92 57.2 40.0 74.4



#44

trans-1,3-Dichloropropene

Concen: 53.042 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU030689.D

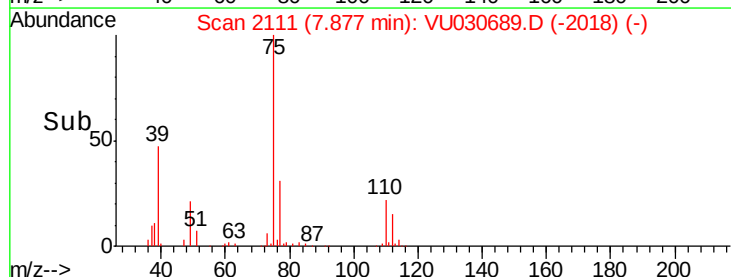
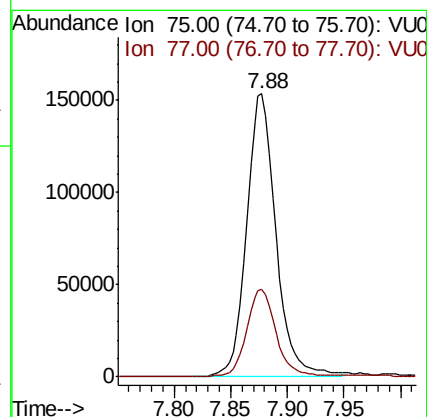
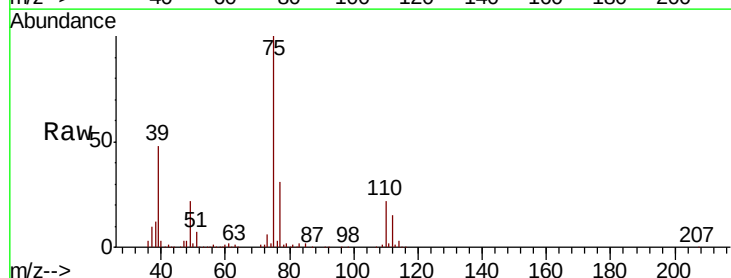
Acq: 04 Apr 2019 17:15

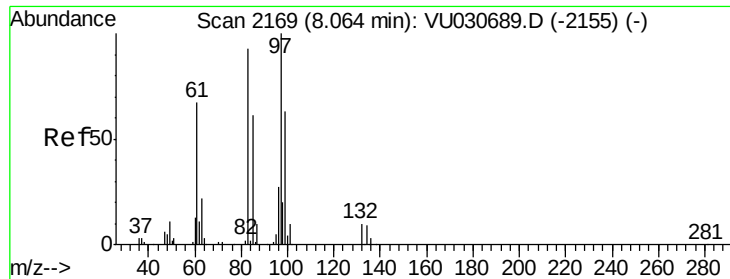
Tgt Ion: 75 Resp: 278339

Ion Ratio Lower Upper

75 100

77 30.8 21.6 40.0

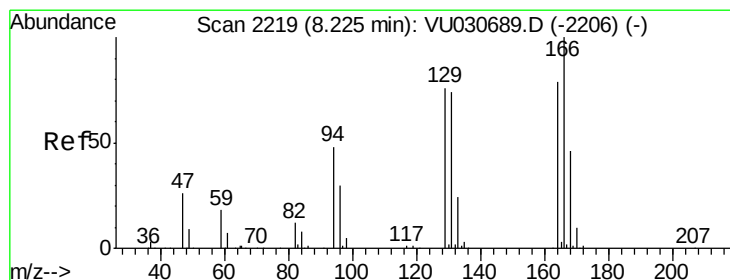
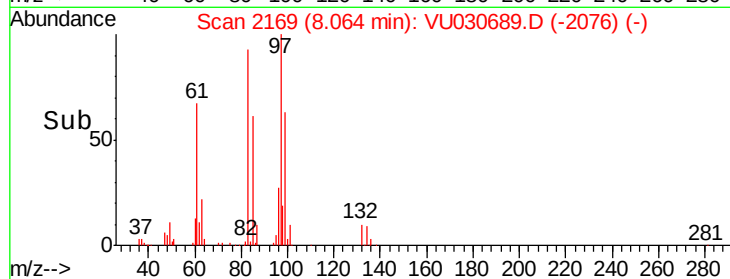
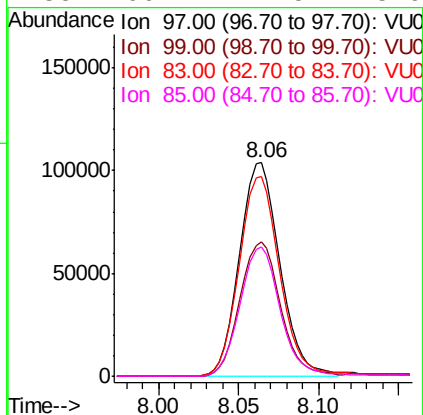
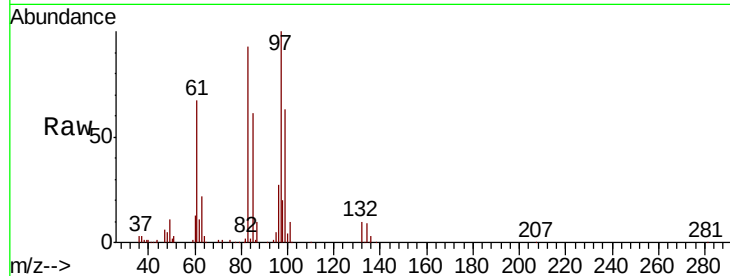




#45
 1,1,2-Trichloroethane
 Concen: 47.683 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU030689.D
 Acq: 04 Apr 2019 17:15

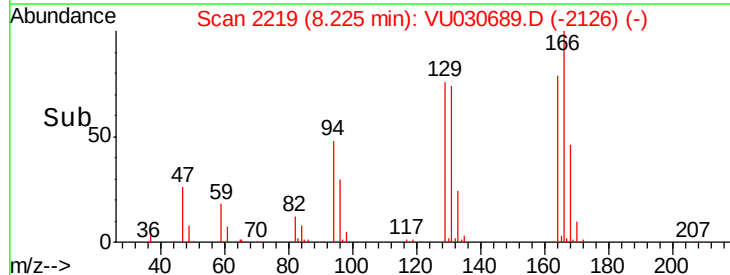
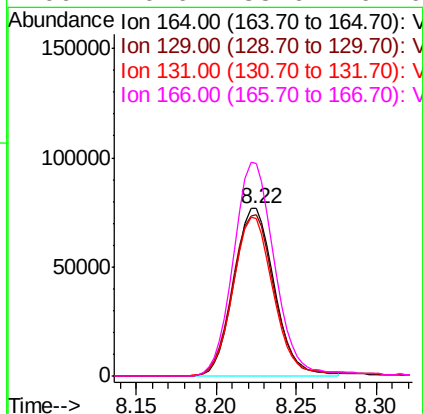
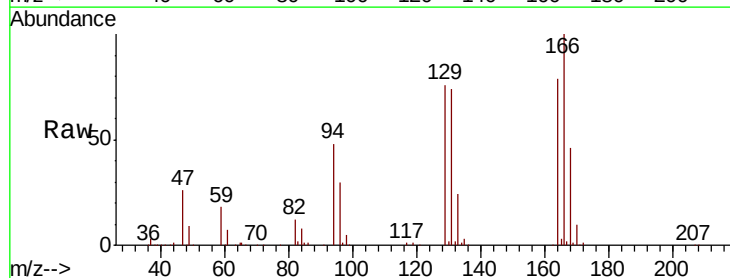
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

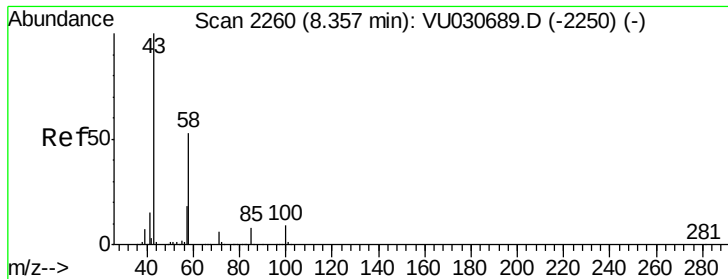
Tot Ion:	97	Resp:	179088
Ion	Ratio	Lower	Upper
97	100		
99	62.9	44.0	81.8
83	93.3	65.3	121.3
85	60.7	42.5	78.9



#46
 Tetrachloroethene
 Concen: 46.854 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU030689.D
 Acq: 04 Apr 2019 17:15

Tgt Ion:	164	Resp:	132414
Ion	Ratio	Lower	Upper
164	100		
129	96.3	67.4	125.2
131	94.2	65.9	122.5
166	126.6	88.6	164.6

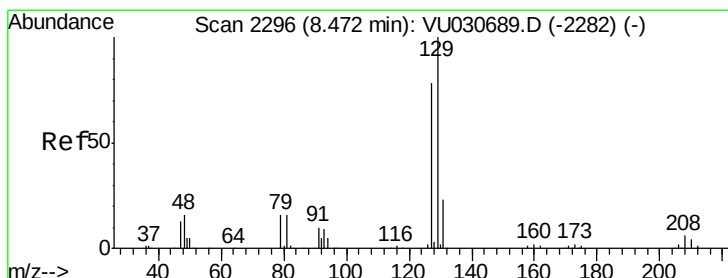
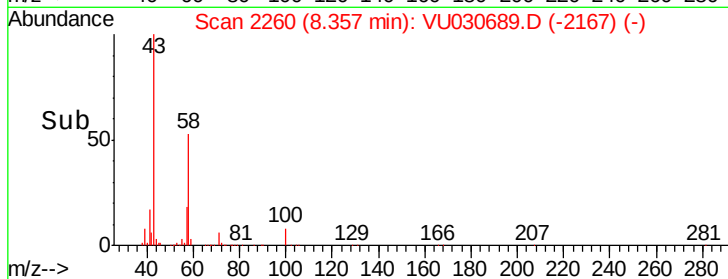
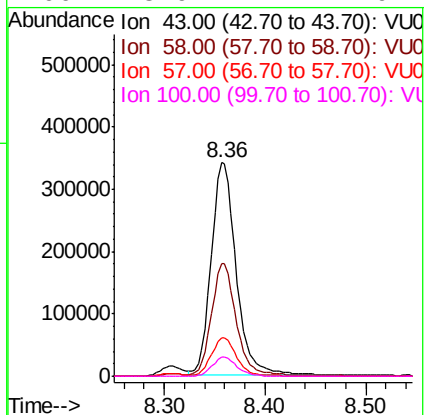
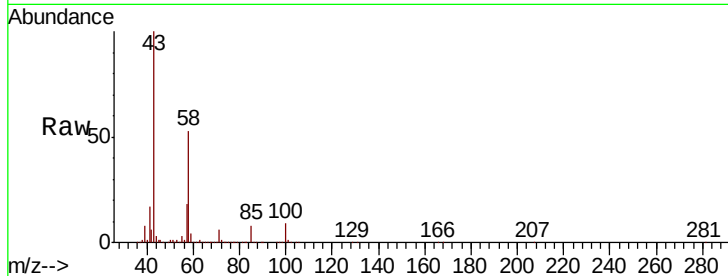




#48
2-Hexanone
Concen: 112.627 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. 0.00 min
Lab File: VU030689.D
Acq: 04 Apr 2019 17:15

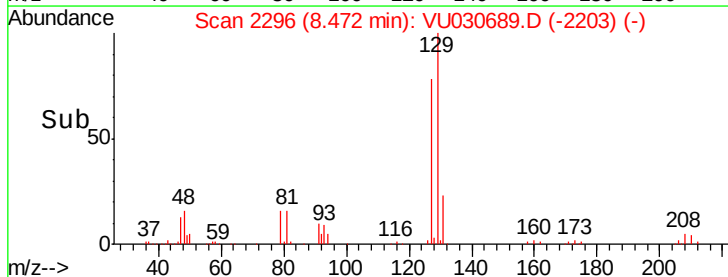
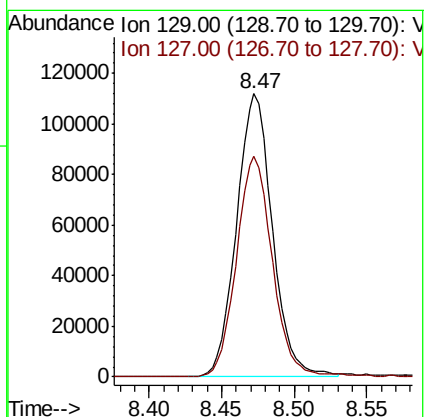
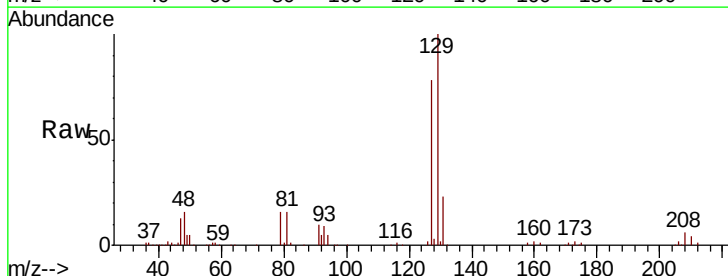
Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

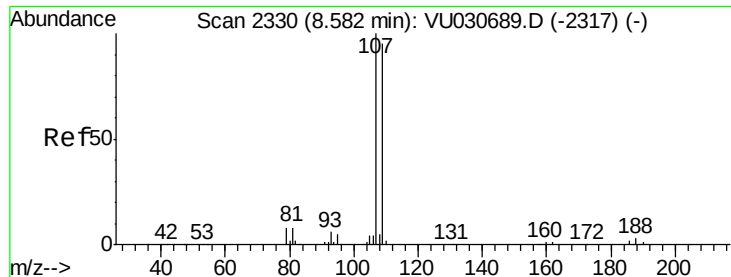
Tot Ion:	43	Resp:	587527
Ion	Ratio	Lower	Upper
43	100		
58	52.4	41.9	62.9
57	17.9	14.3	21.5
100	8.9	7.1	10.7



#49
Dibromochloromethane
Concen: 48.770 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU030689.D
Acq: 04 Apr 2019 17:15

Tgt Ion:	129	Resp:	192356
Ion	Ratio	Lower	Upper
129	100		
127	77.9	54.5	101.3

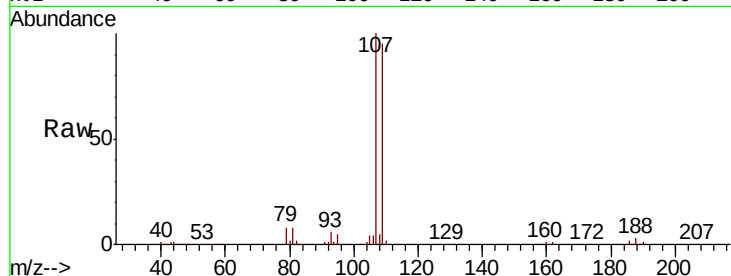




#50
1,2-Dibromoethane
Concen: 48.915 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU030689.D
Acq: 04 Apr 2019 17:15

Instrument :
MSVOA_U
ClientSampleId :
VSTD05048

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.8	66.4	123.2
188	3.3	2.6	4.0

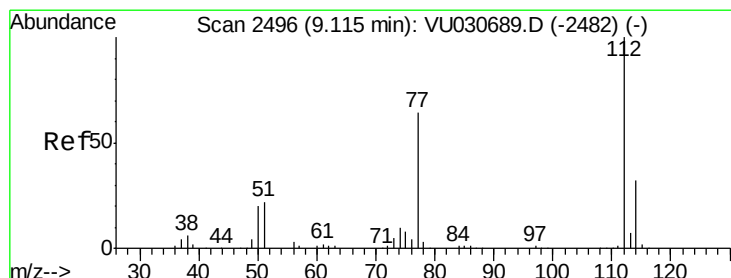
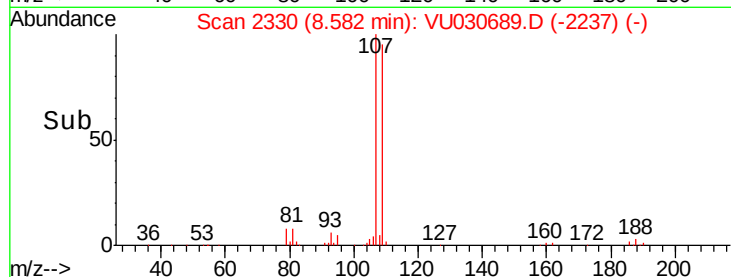
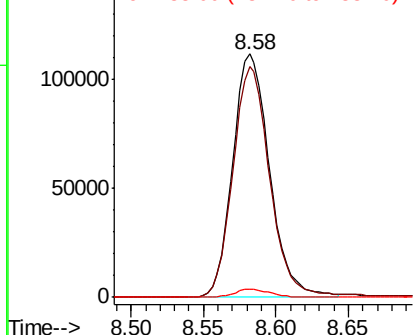


Abundance

Ion 107.00 (106.70 to 107.70): V

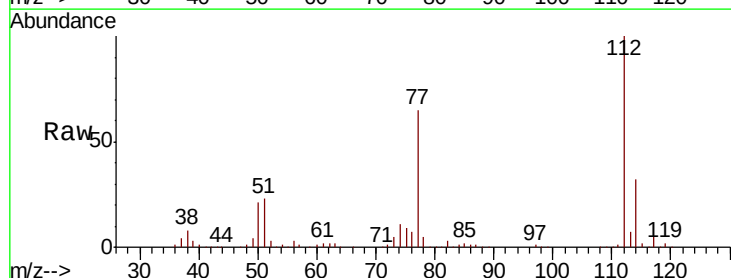
Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51
Chlorobenzene
Concen: 48.152 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. 0.00 min
Lab File: VU030689.D
Acq: 04 Apr 2019 17:15

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.7	22.2	41.2
77	64.6	51.7	77.5

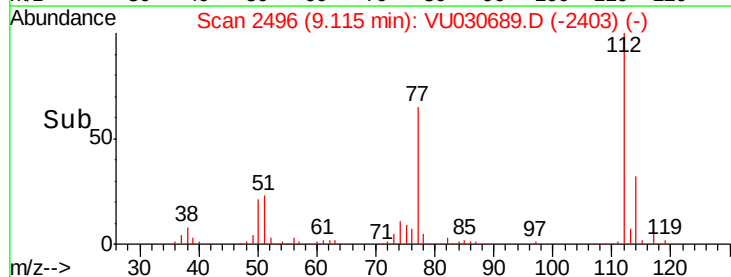
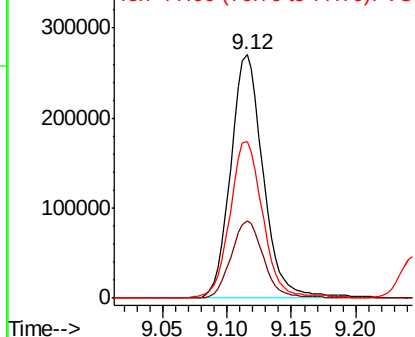


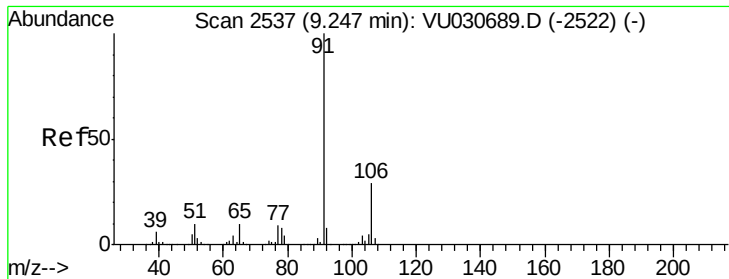
Abundance

Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU0





#52

Ethylbenzene

Concen: 49.869 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU030689.D

Acq: 04 Apr 2019 17:15

Instrument :

MSVOA_U

ClientSampleId :

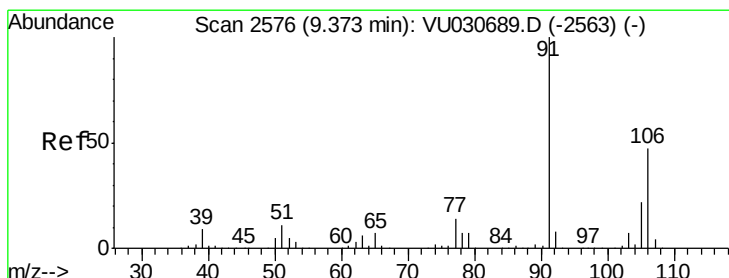
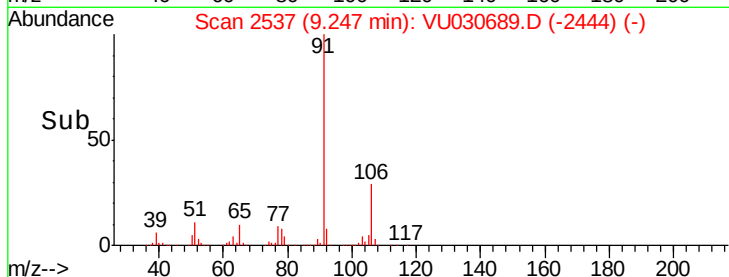
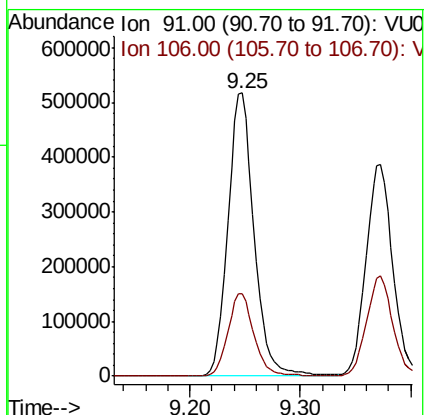
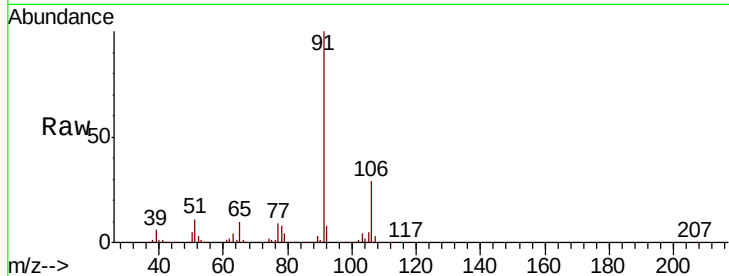
VSTD05048

Tot Ion: 91 Resp: 852047

Ion Ratio Lower Upper

91 100

106 29.1 20.4 37.8



#53

m,p-Xylene

Concen: 51.496 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU030689.D

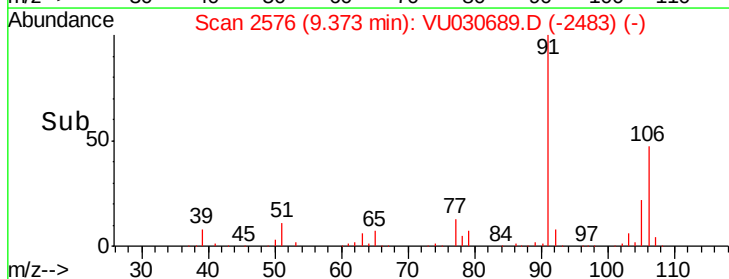
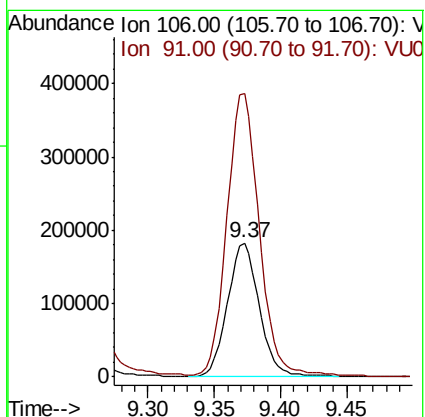
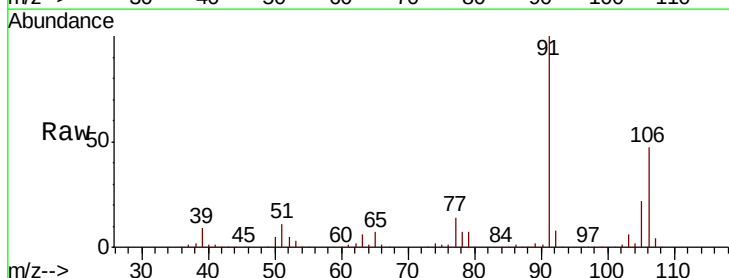
Acq: 04 Apr 2019 17:15

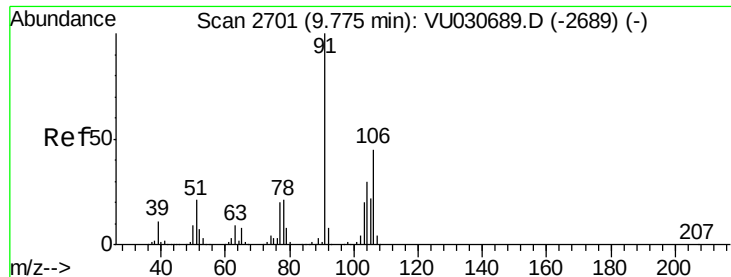
Tgt Ion: 106 Resp: 300286

Ion Ratio Lower Upper

106 100

91 211.4 148.0 274.8





#54

o-xylene

Concen: 50.974 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU030689.D

Acq: 04 Apr 2019 17:15

Instrument :

MSVOA_U

ClientSampleId :

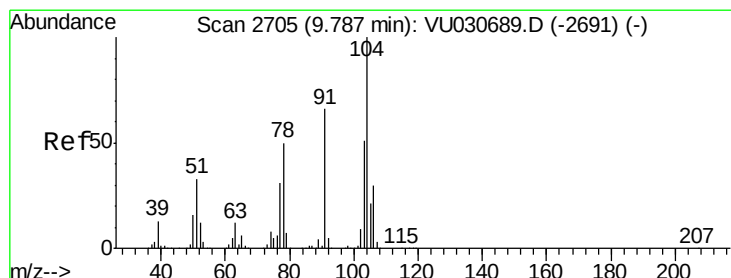
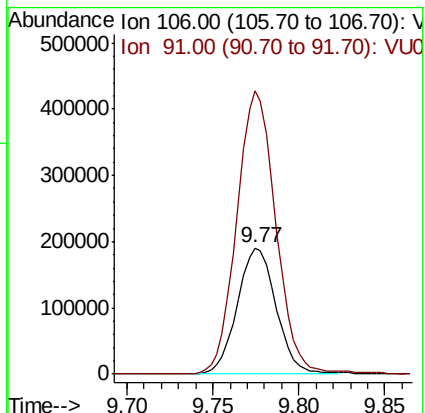
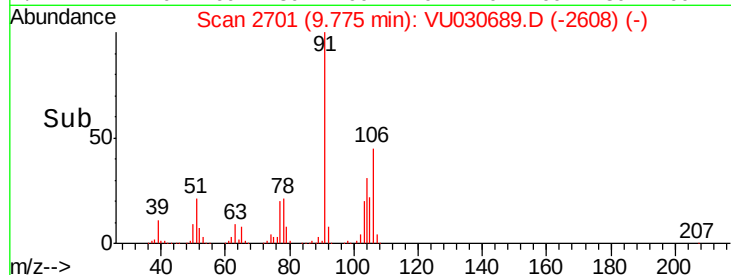
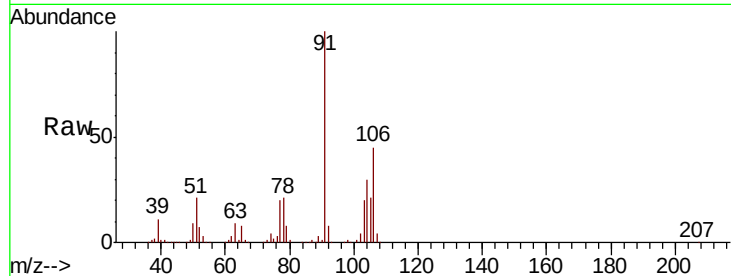
VSTD05048

Tot Ion:106 Resp: 298716

Ion Ratio Lower Upper

106 100

91 223.8 156.7 290.9



#55

Styrene

Concen: 53.641 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU030689.D

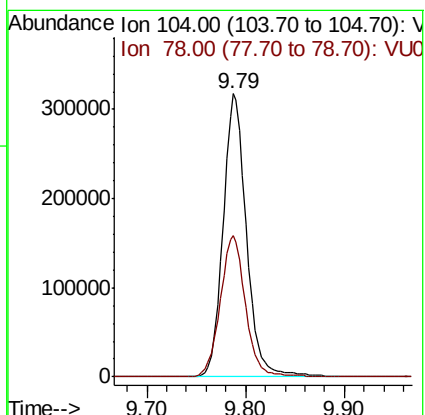
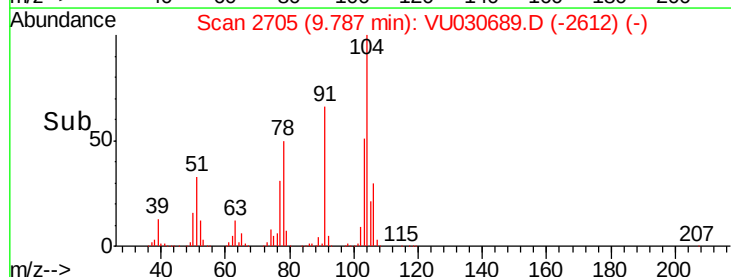
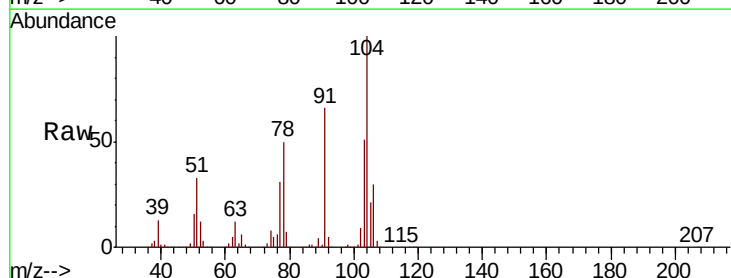
Acq: 04 Apr 2019 17:15

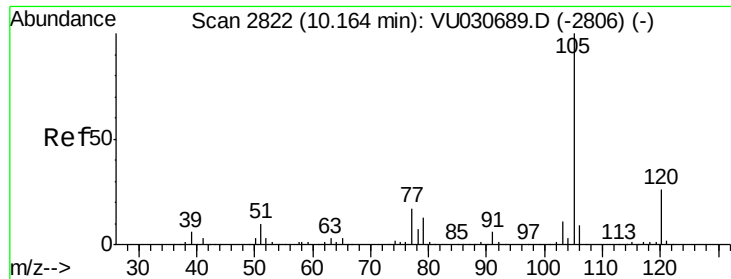
Tgt Ion:104 Resp: 529554

Ion Ratio Lower Upper

104 100

78 50.1 35.1 65.1





#56

Isopropylbenzene

Concen: 51.731 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU030689.D

Acq: 04 Apr 2019 17:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

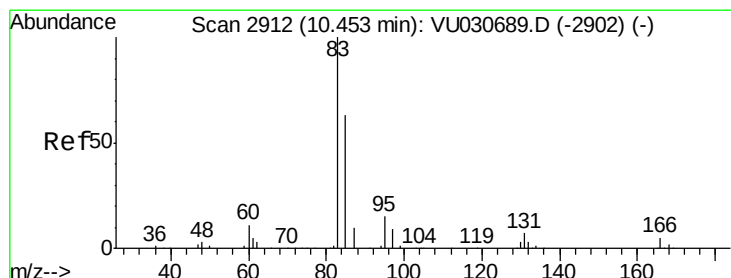
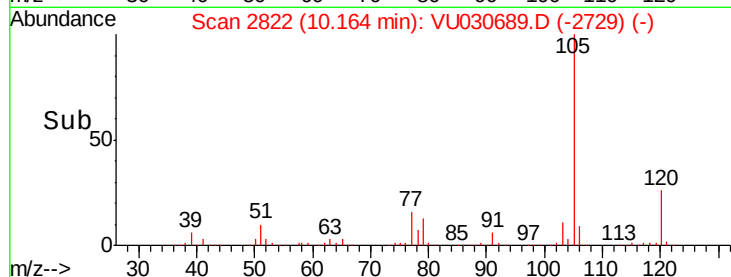
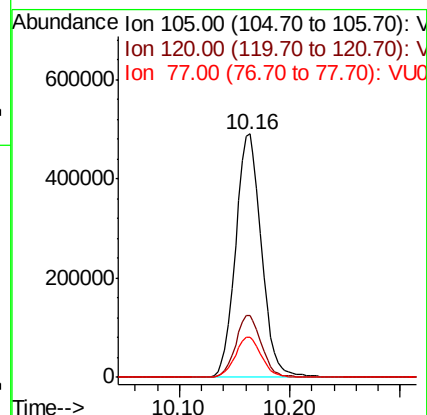
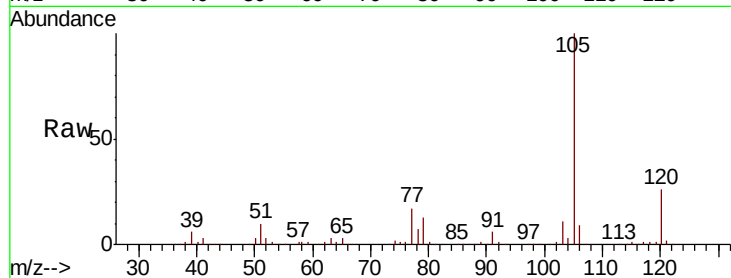
Tot Ion:105 Resp: 796275

Ion Ratio Lower Upper

105 100

120 25.5 20.4 30.6

77 16.8 13.4 20.2



#58

1,1,2,2-Tetrachloroethane

Concen: 48.787 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU030689.D

Acq: 04 Apr 2019 17:15

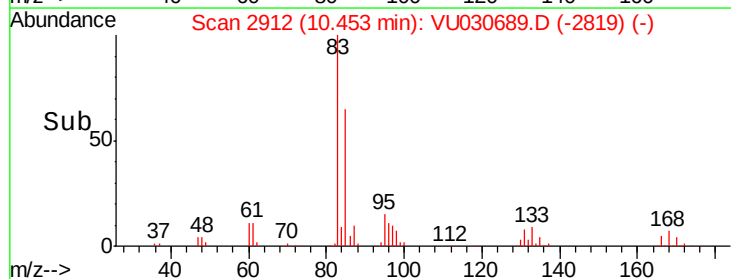
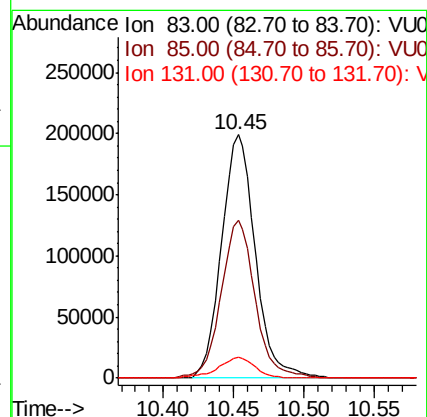
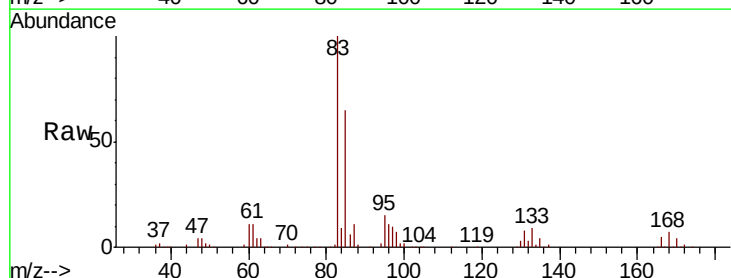
Tgt Ion: 83 Resp: 331134

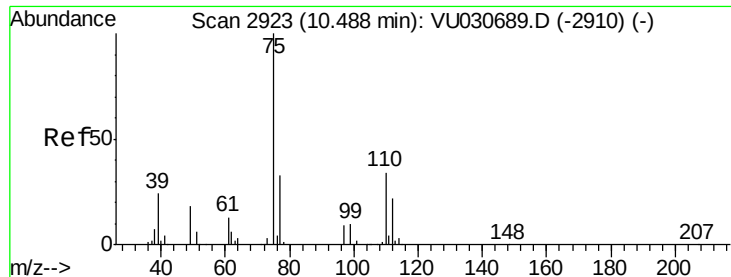
Ion Ratio Lower Upper

83 100

85 64.7 45.3 84.1

131 8.4 6.7 10.1

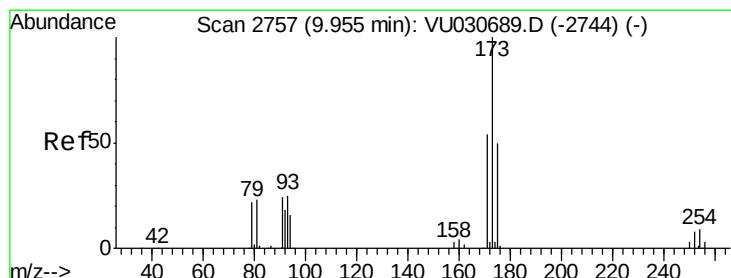
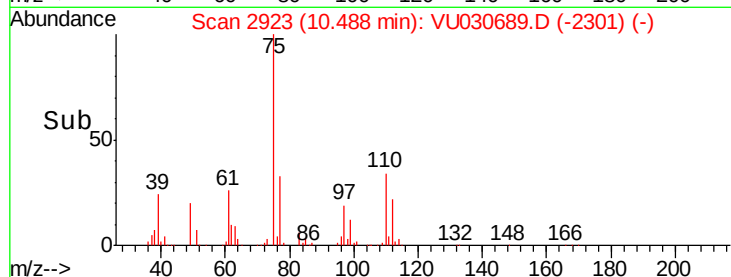
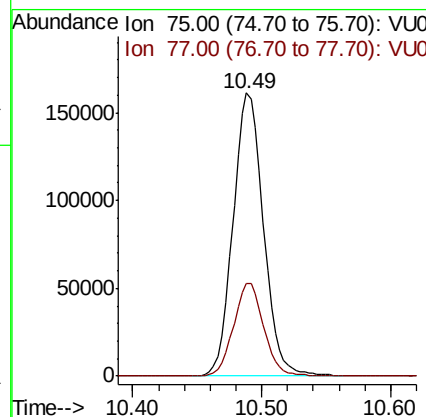
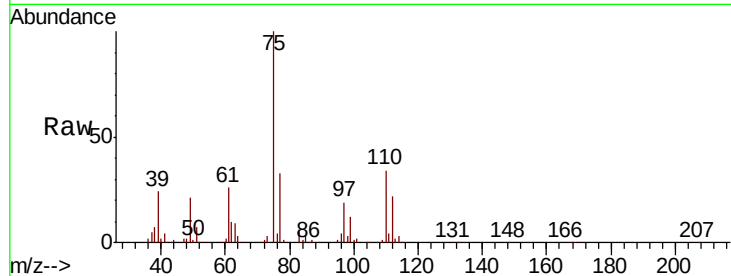




#59
 1,2,3-Trichloropropane
 Concen: 49.933 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. 0.00 min
 Lab File: VU030689.D
 Acq: 04 Apr 2019 17:15

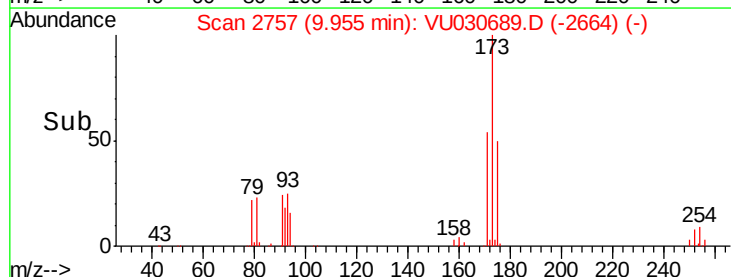
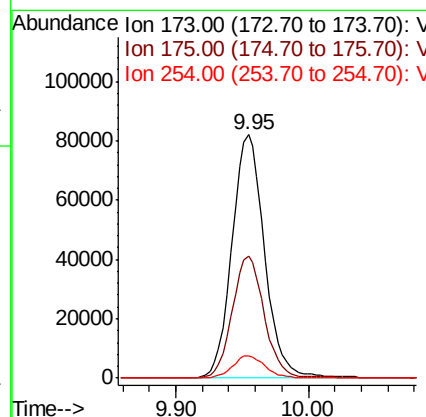
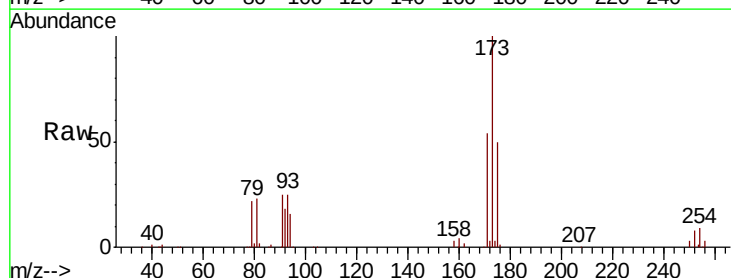
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

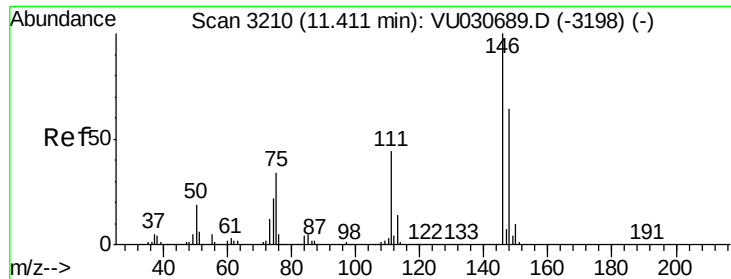
Tot Ion: 75 Resp: 263475
 Ion Ratio Lower Upper
 75 100
 77 32.6 26.1 39.1



#61
 Bromoform
 Concen: 47.916 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. 0.00 min
 Lab File: VU030689.D
 Acq: 04 Apr 2019 17:15

Tgt Ion: 173 Resp: 140085
 Ion Ratio Lower Upper
 173 100
 175 48.9 39.1 58.7
 254 9.1 7.3 10.9





#62

1,3-Dichlorobenzene

Concen: 48.054 ug/L

RT: 11.41 min Scan# 3210

Delta R.T. 0.00 min

Lab File: VU030689.D

Acq: 04 Apr 2019 17:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

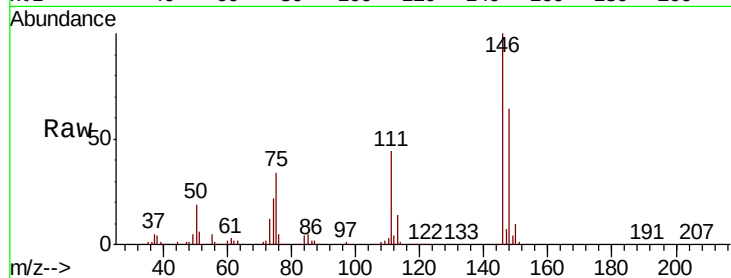
Tot Ion:146 Resp: 338186

Ion Ratio Lower Upper

146 100

111 44.2 30.9 57.5

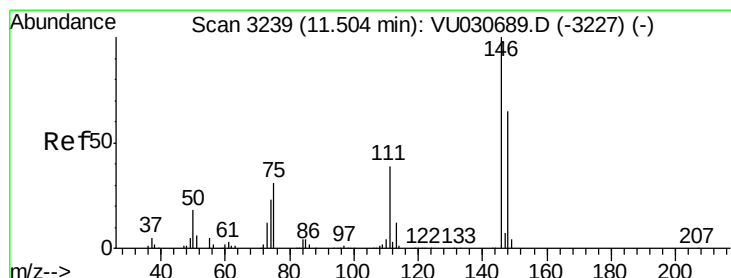
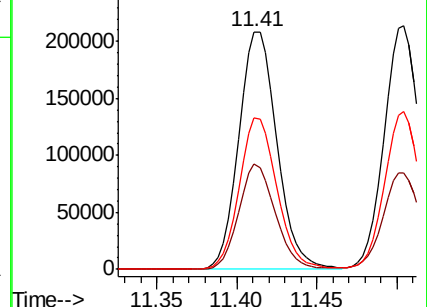
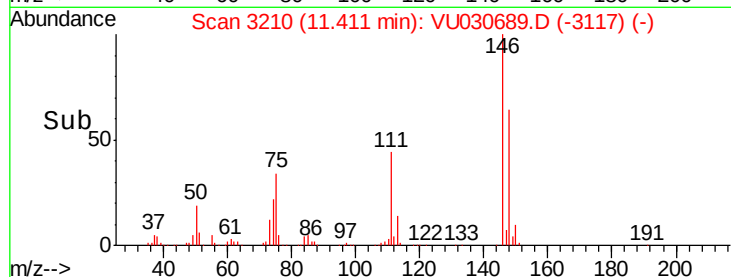
148 63.8 44.7 82.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 47.190 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU030689.D

Acq: 04 Apr 2019 17:15

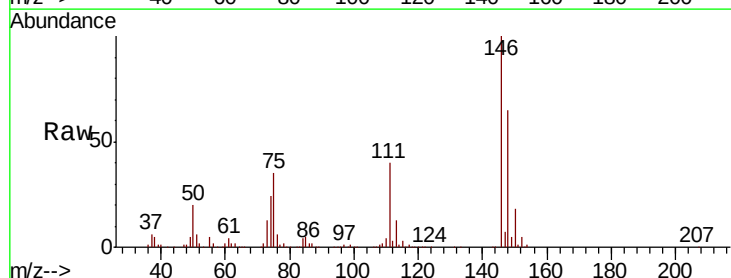
Tgt Ion:146 Resp: 338758

Ion Ratio Lower Upper

146 100

111 39.6 27.7 51.5

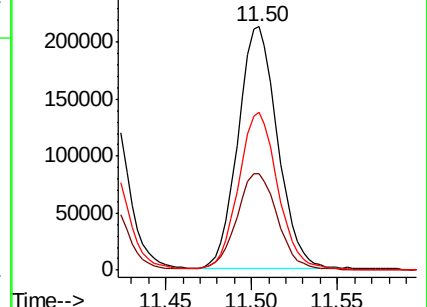
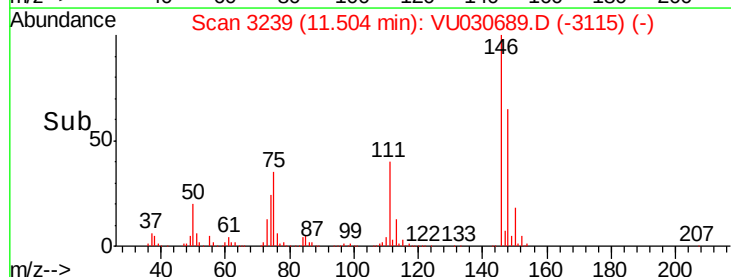
148 64.9 45.4 84.4

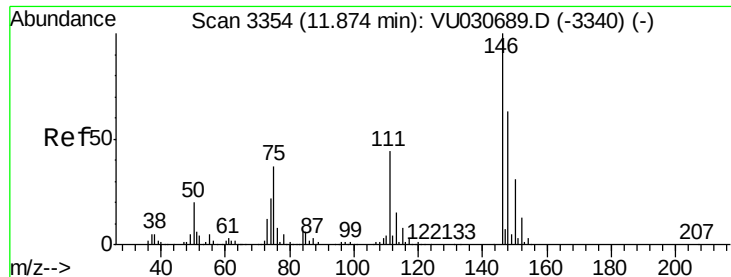


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

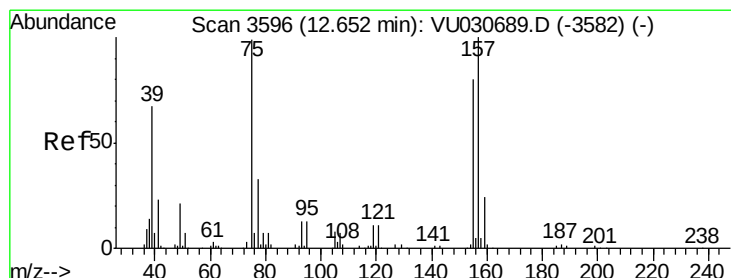
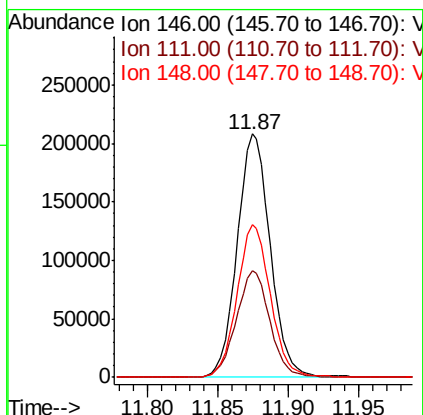
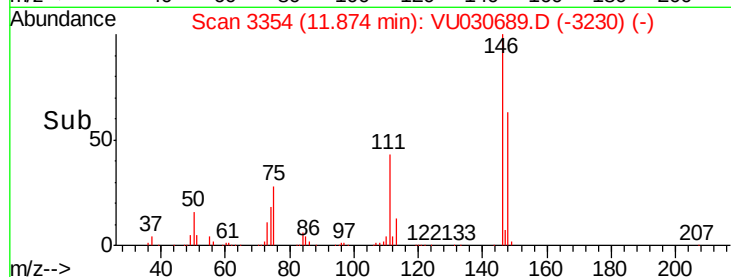
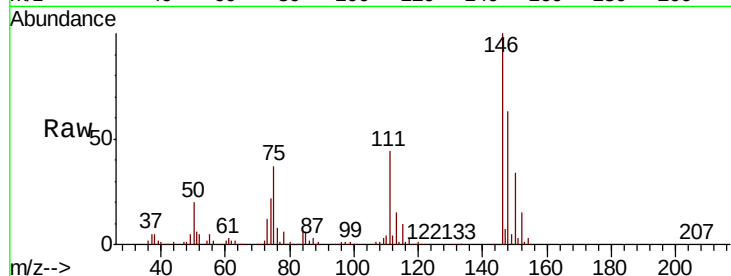




#65
 1,2-Dichlorobenzene
 Concen: 48.005 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU030689.D
 Acq: 04 Apr 2019 17:15

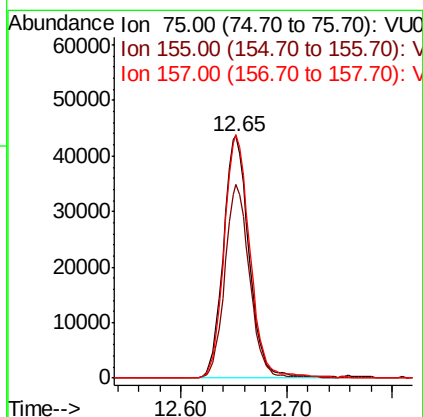
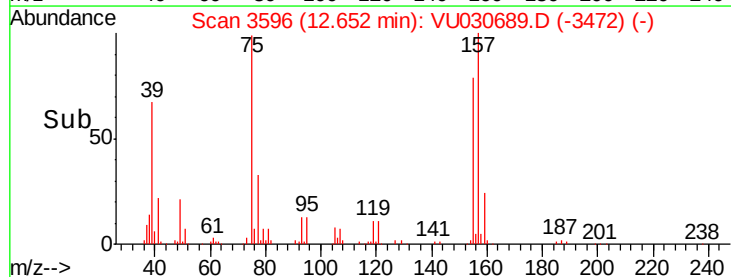
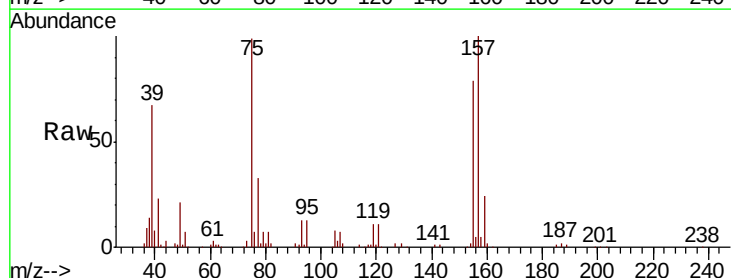
Instrument :
 MSVOA_U
 ClientSampleID :
 VSTD05048

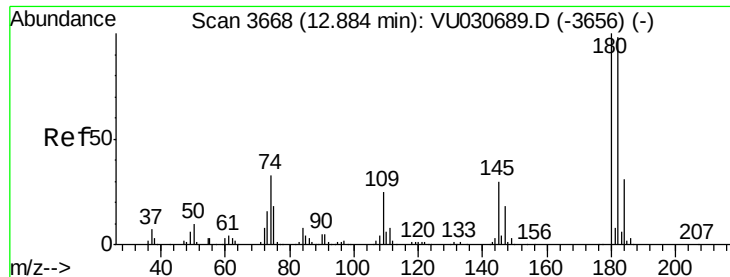
Tot Ion:146 Resp: 341765
 Ion Ratio Lower Upper
 146 100
 111 43.6 34.9 52.3
 148 63.0 50.4 75.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 50.055 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU030689.D
 Acq: 04 Apr 2019 17:15

Tgt Ion: 75 Resp: 73388
 Ion Ratio Lower Upper
 75 100
 155 80.1 64.1 96.1
 157 100.7 80.6 120.8

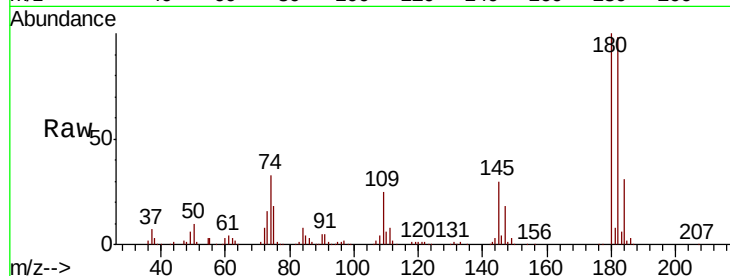




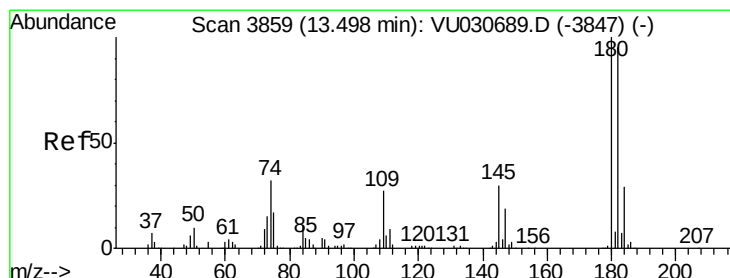
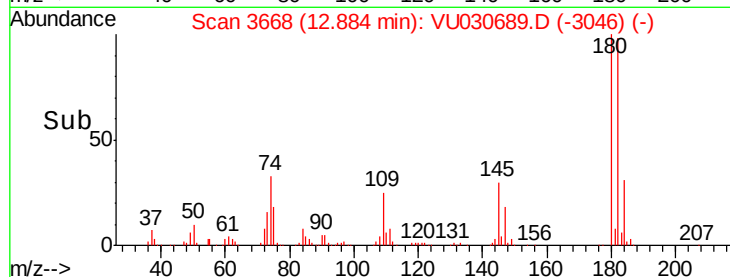
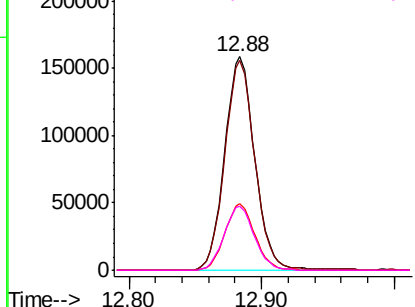
#67
 1,3,5-Trichlorobenzene
 Concen: 49.303 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU030689.D
 Acq: 04 Apr 2019 17:15

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05048

Tot Ion:180	Resp:	250132
Ion	Ratio	Lower Upper
180	100	
182	97.9	78.3 117.5
184	30.9	24.7 37.1
145	30.3	24.2 36.4

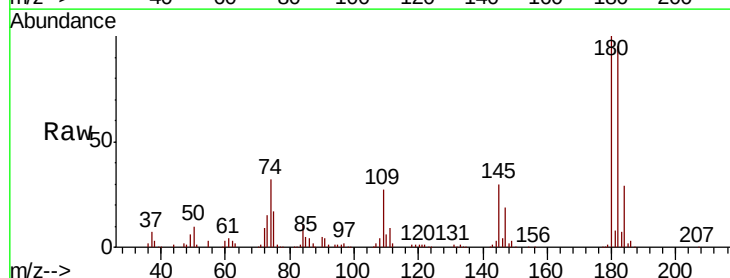


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

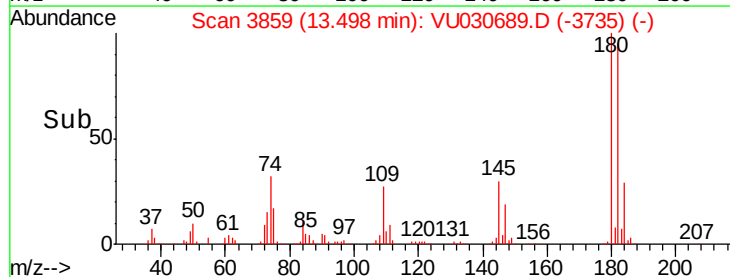
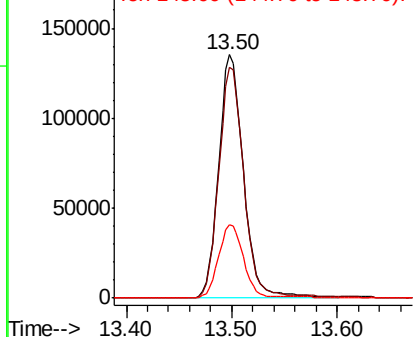


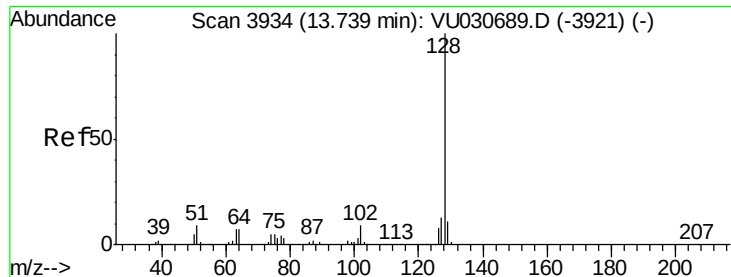
#68
 1,2,4-trichlorobenzene
 Concen: 53.530 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU030689.D
 Acq: 04 Apr 2019 17:15

Tgt Ion:180	Resp:	220770
Ion	Ratio	Lower Upper
180	100	
182	95.9	76.7 115.1
145	30.5	24.4 36.6



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





#69

Naphthalene

Concen: 58.267 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU030689.D

Acq: 04 Apr 2019 17:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05048

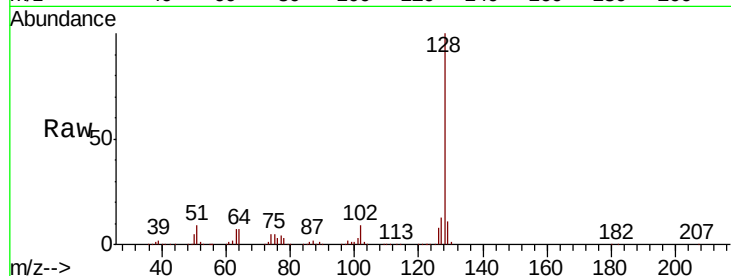
Tot Ion:128 Resp: 737883

Ion Ratio Lower Upper

128 100

127 13.0 10.4 15.6

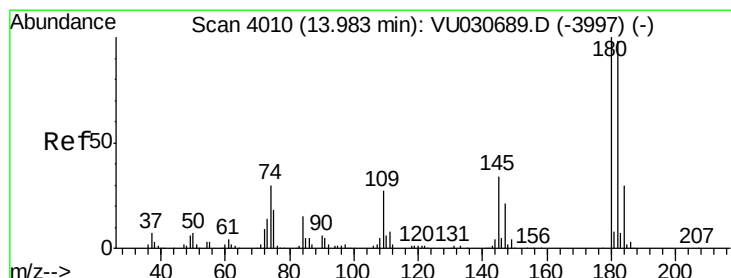
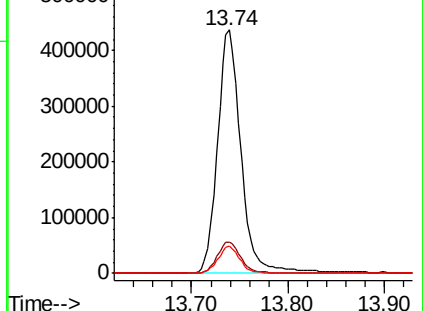
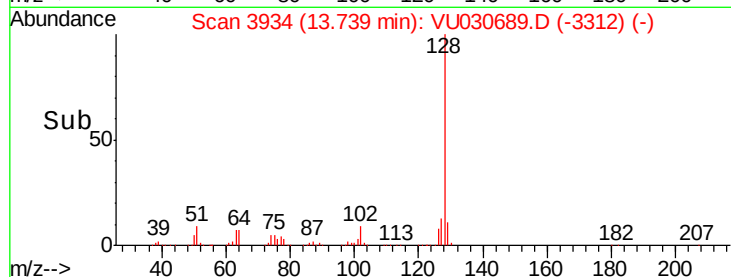
129 10.7 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 51.441 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU030689.D

Acq: 04 Apr 2019 17:15

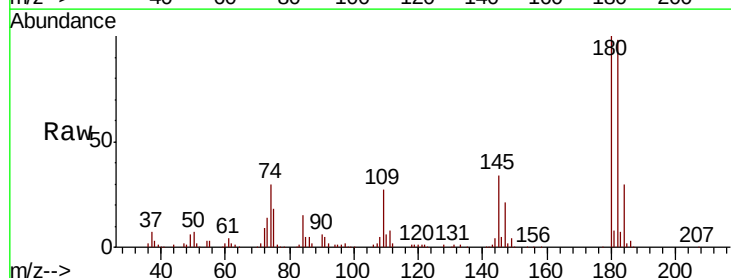
Tgt Ion:180 Resp: 226156

Ion Ratio Lower Upper

180 100

182 97.6 78.1 117.1

145 33.3 26.6 40.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

