

Data File : VV013447.D
Acq On : 31 Oct 2019 14:47
Operator : SY/MD
Sample : VSTD01036
Misc : 25.0ML/MSVOA_V/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD01036

Quant Time: Nov 01 04:54:08 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR103119WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Nov 01 04:50:11 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	397700	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	402874	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	254355	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	273134	7.56	ug/L	0.00
7) Chloroethane-d5	1.58	69	220850	7.69	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.13	63	492124	8.27	ug/L	0.00
20) 2-Butanone-d5	3.96	46	968402	114.48	ug/L	0.02
24) Chloroform-d	4.40	84	659627	9.10	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	340197	9.28	ug/L	0.00
32) Benzene-d6	5.09	84	1300149	9.42	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.11	67	397873	9.25	ug/L	0.00
41) Toluene-d8	7.36	98	1215831	9.64	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.66	79	159866	10.02	ug/L	0.00
46) 2-Hexanone-d5	8.13	63	702967	132.27	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.26	84	308982	10.74	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.67	152	469924	9.33	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	459165	8.732 ug/L	99
3) Chloromethane	1.25	50	377238	8.531 ug/L	99
5) Vinyl chloride	1.32	62	376094	8.730 ug/L	100
6) Bromomethane	1.53	94	180810	8.053 ug/L	100
8) Chloroethane	1.60	64	209617	8.593 ug/L	99
9) Trichlorofluoromethane	1.77	101	503446	8.894 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	280395	8.915 ug/L	99
12) 1,1-Dichloroethene	2.14	96	266212	8.812 ug/L	95
13) Acetone	2.23	43	105259	24.335 ug/L	# 1
14) Carbon disulfide	2.31	76	817465	8.980 ug/L	100
15) Methyl Acetate	2.47	43	136997	8.658 ug/L	98
16) Methylene chloride	2.53	84	356116	8.139 ug/L	99
17) Methyl tert-butyl Ether	2.81	73	840851	10.313 ug/L	99
18) trans-1,2-Dichloroethene	2.78	96	362459	9.079 ug/L	96
19) 1,1-Dichloroethane	3.23	63	668735	9.133 ug/L	99
21) 2-Butanone	4.05	43	1048299	111.484 ug/L	96
22) cis-1,2-Dichloroethene	3.96	96	383465	9.504 ug/L	# 96
23) Bromochloromethane	4.30	128	169693	9.295 ug/L	97
25) Chloroform	4.42	83	671079	8.629 ug/L	98
27) 1,2-Dichloroethane	5.18	62	415925	9.684 ug/L	99
29) 1,1,1-Trichloroethane	4.65	97	571992	9.690 ug/L	99
30) Cyclohexane	4.72	56	655642	10.517 ug/L	100
31) Carbon tetrachloride	4.87	117	508776	9.501 ug/L	100
33) Benzene	5.14	78	1464858	9.856 ug/L	100
34) Trichloroethene	5.96	95	380589	9.286 ug/L	97
35) Methylcyclohexane	6.17	83	637436	10.451 ug/L	99
37) 1,2-Dichloropropane	6.22	63	367962	9.800 ug/L	99
38) Bromodichloromethane	6.55	83	456282	9.626 ug/L	99
39) cis-1,3-Dichloropropene	7.07	75	529926	10.379 ug/L	98
40) 4-Methyl-2-pentanone	7.27	43	2473740	114.988 ug/L	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.43	91	1519856	9.840	ug/L	100
44) trans-1,3-Dichloropropene	7.69	75	408170	10.054	ug/L	100
45) 1,1,2-Trichloroethane	7.88	97	247343	9.806	ug/L	98
47) Tetrachloroethene	8.02	164	323144	9.358	ug/L	99
48) 2-Hexanone	8.18	43	1758457	113.603	ug/L	98
49) Dibromochloromethane	8.29	129	307407	9.792	ug/L	97
50) 1,2-Dibromoethane	8.40	107	236116	10.154	ug/L	97
51) Chlorobenzene	8.92	112	949024	9.481	ug/L	100
52) Ethylbenzene	9.05	91	1654002	10.053	ug/L	100
53) m,p-xylene	9.18	106	636018	10.428	ug/L	99
54) o-xylene	9.58	106	606840	10.230	ug/L	98
55) Styrene	9.60	104	1056185	10.620	ug/L	99
56) Isopropylbenzene	9.97	105	1665047	10.481	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.28	83	292865	10.709	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	225412	10.116	ug/L	97
61) Bromoform	9.77	173	186303	9.886	ug/L	100
62) 1,3-Dichlorobenzene	11.22	146	803857	9.503	ug/L	99
63) 1,4-Dichlorobenzene	11.32	146	795525	9.356	ug/L	99
65) 1,2-Dichlorobenzene	11.68	146	738227	9.377	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.47	75	45413	11.073	ug/L	94
67) 1,3,5-Trichlorobenzene	12.69	180	655370	9.682	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	541495	10.288	ug/L	100
69) Naphthalene	13.55	128	882285	11.971	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	515598	10.692	ug/L	99

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

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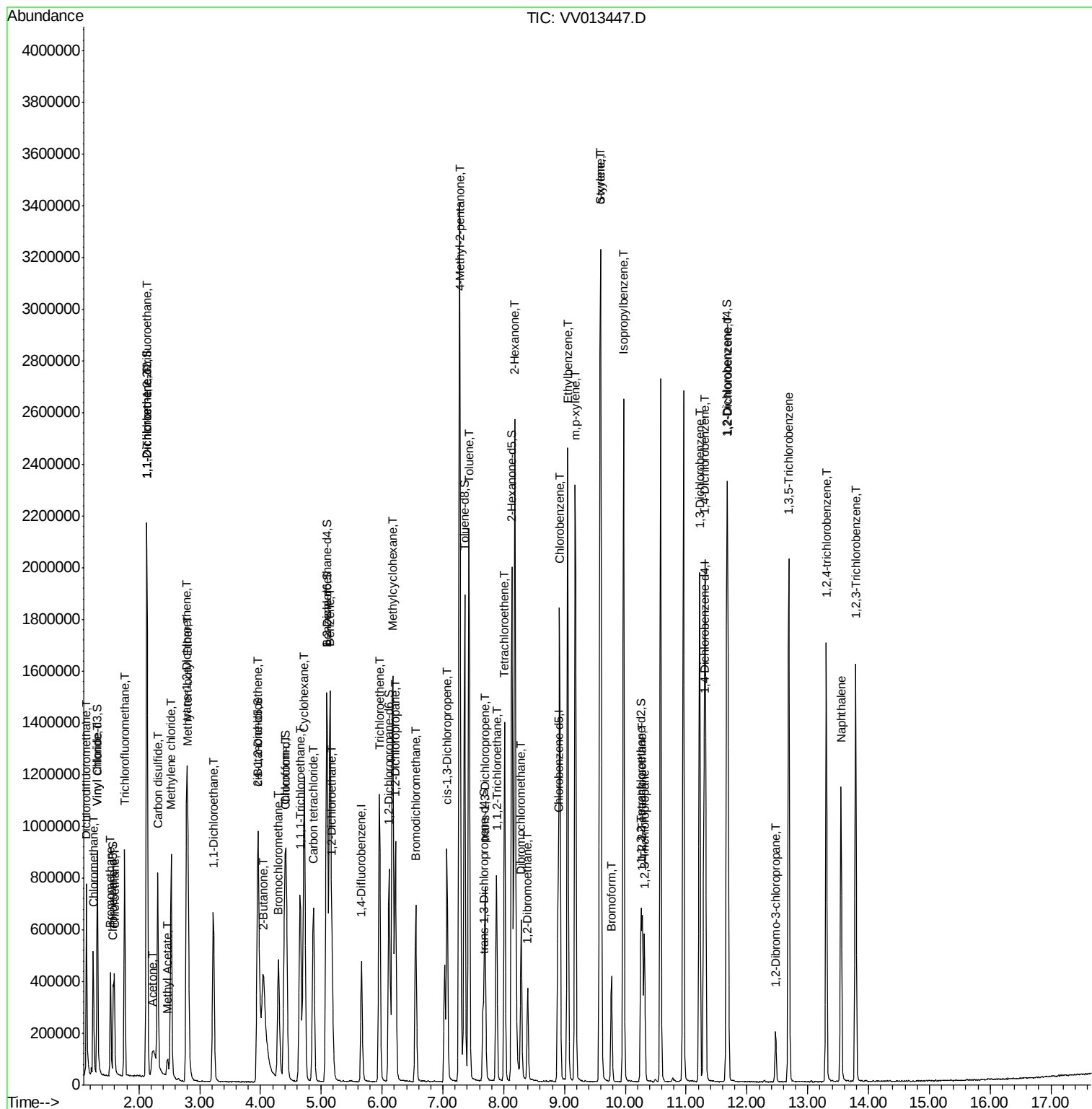
Quant Time: Nov 01 04:54:08 2019

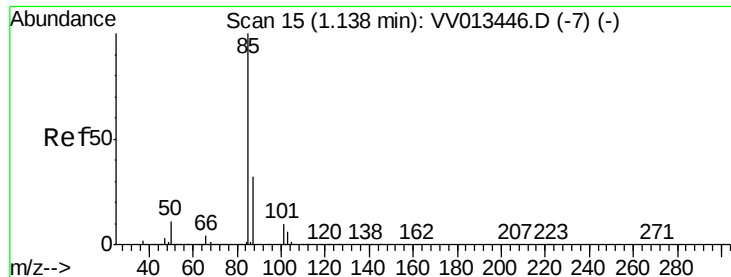
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\SOMVTR103119WMA.M

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#2

Dichlorodifluoromethane

Concen: 8.732 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

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Acq: 31 Oct 2019 14:47

Instrument :

MSVOA_V

ClientSampleId :

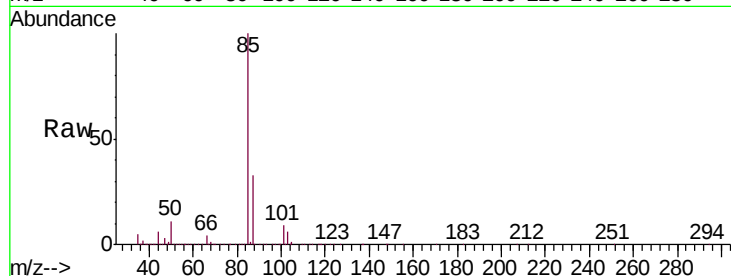
VSTD01036

Tgt Ion: 85 Resp: 459165

Ion Ratio Lower Upper

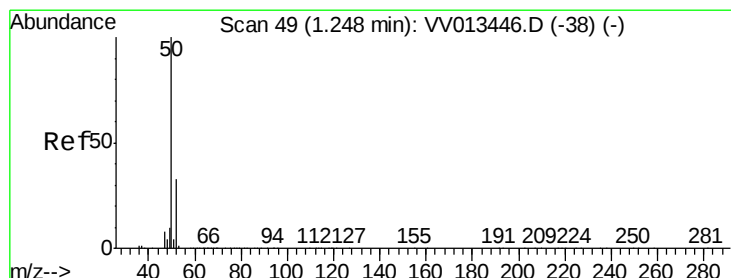
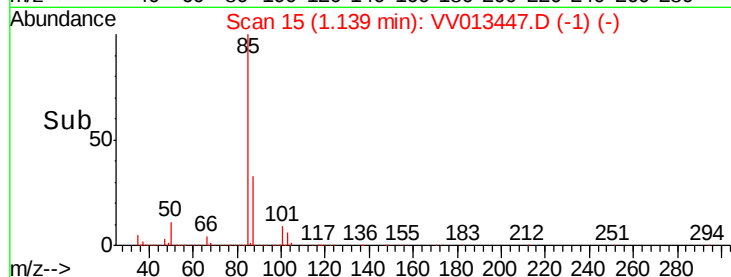
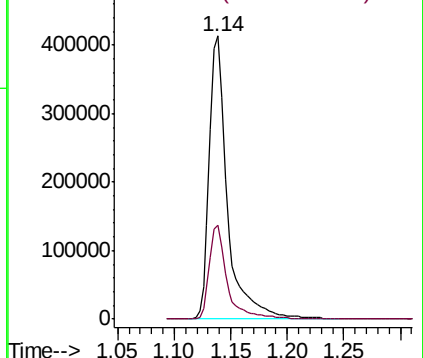
85 100

87 32.7 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 8.531 ug/L

RT: 1.25 min Scan# 49

Delta R.T. 0.00 min

Lab File: VV013447.D

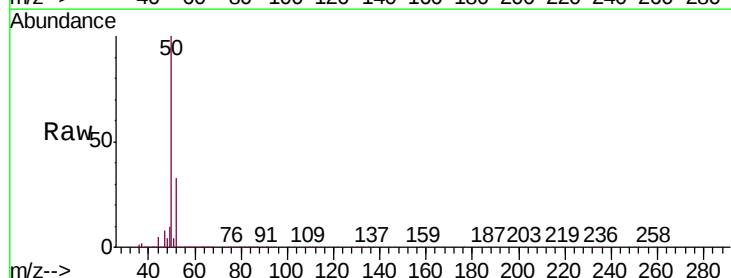
Acq: 31 Oct 2019 14:47

Tgt Ion: 50 Resp: 377238

Ion Ratio Lower Upper

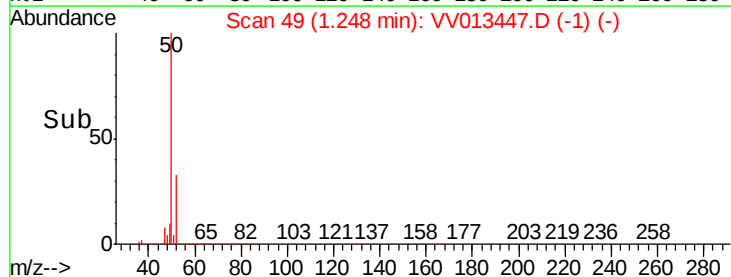
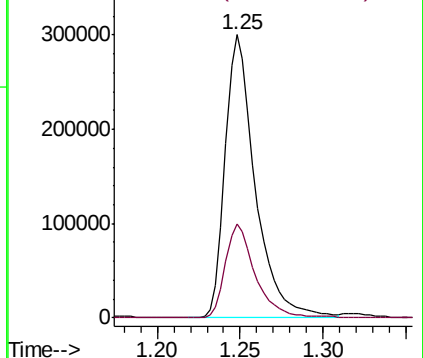
50 100

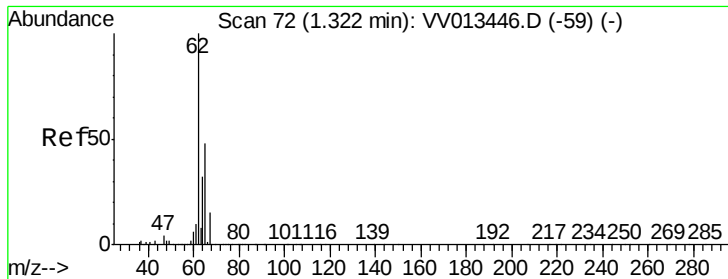
52 33.1 23.4 43.6



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0





#5

Vinyl chloride

Concen: 8.730 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

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Acq: 31 Oct 2019 14:47

Instrument :

MSVOA_V

ClientSampleId :

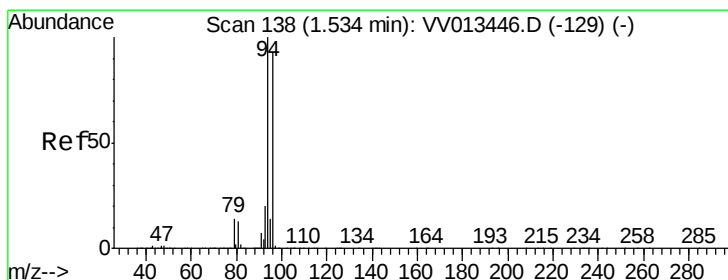
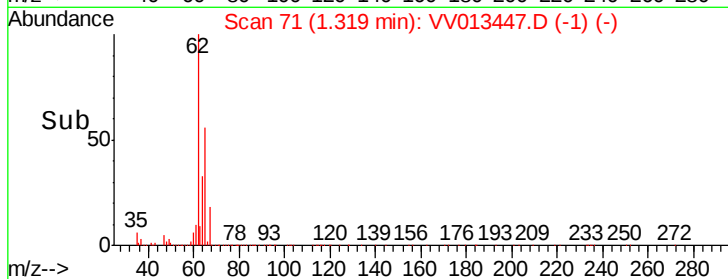
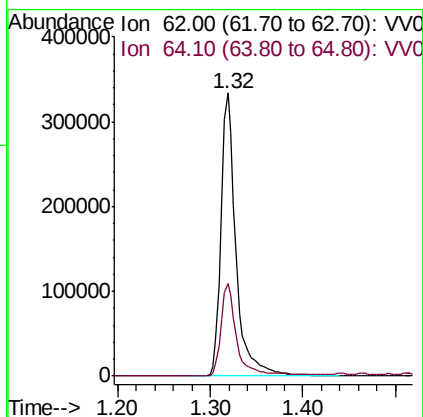
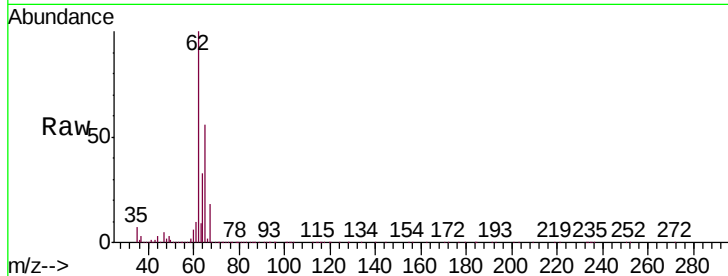
VSTD01036

Tgt Ion: 62 Resp: 376094

Ion Ratio Lower Upper

62 100

64 32.7 23.1 42.9



#6

Bromomethane

Concen: 8.053 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV013447.D

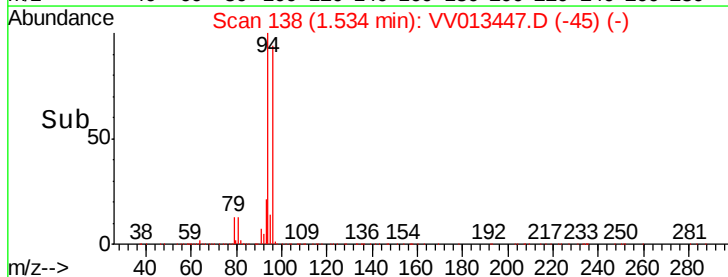
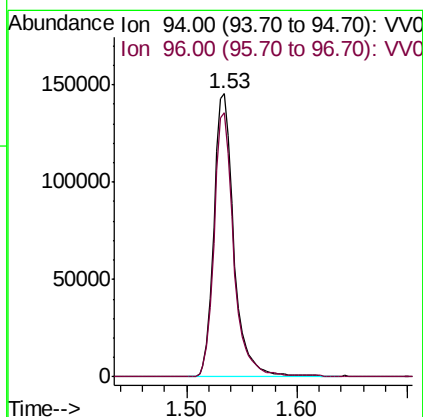
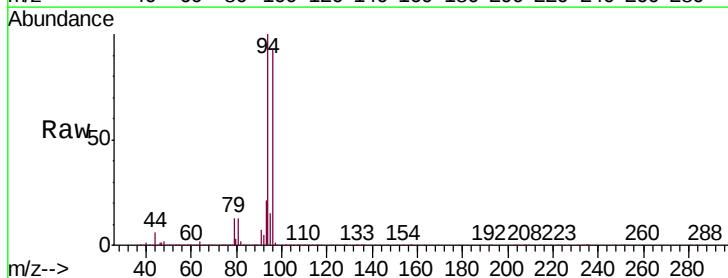
Acq: 31 Oct 2019 14:47

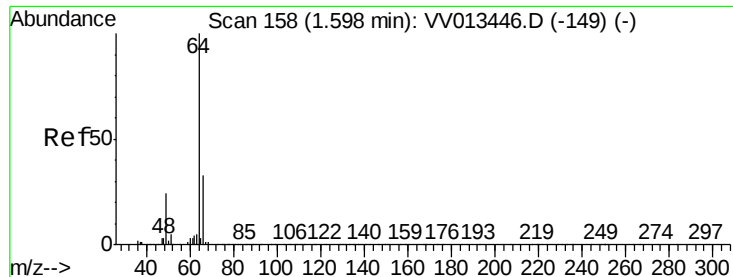
Tgt Ion: 94 Resp: 180810

Ion Ratio Lower Upper

94 100

96 93.4 65.2 121.2





#8

Chloroethane

Concen: 8.593 ug/L

RT: 1.60 min Scan# 157

Delta R.T. -0.00 min

Lab File: VV013447.D

Acq: 31 Oct 2019 14:47

Instrument :

MSVOA_V

ClientSampleId :

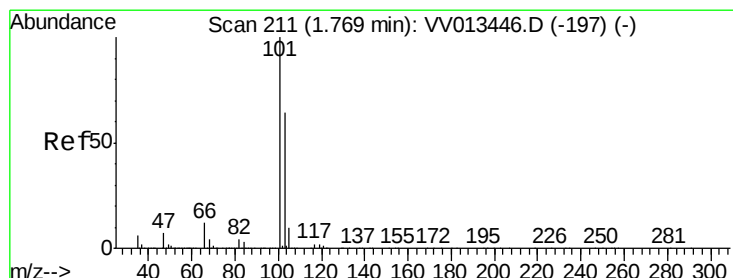
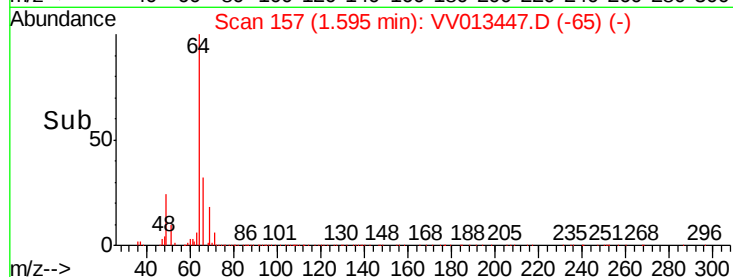
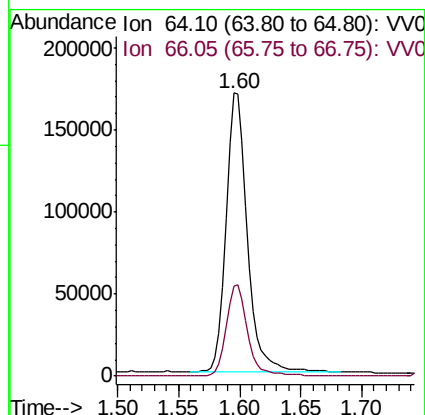
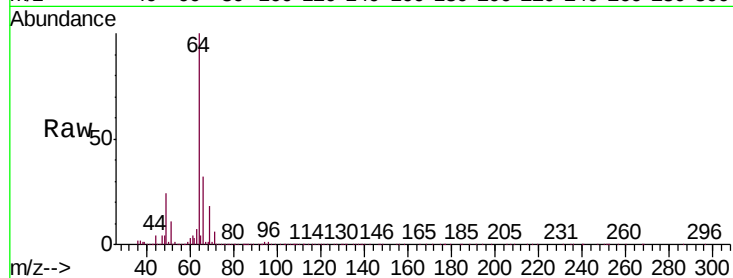
VSTD01036

Tgt Ion: 64 Resp: 209617

Ion Ratio Lower Upper

64 100

66 31.9 22.8 42.4



#9

Trichlorofluoromethane

Concen: 8.894 ug/L

RT: 1.77 min Scan# 210

Delta R.T. -0.00 min

Lab File: VV013447.D

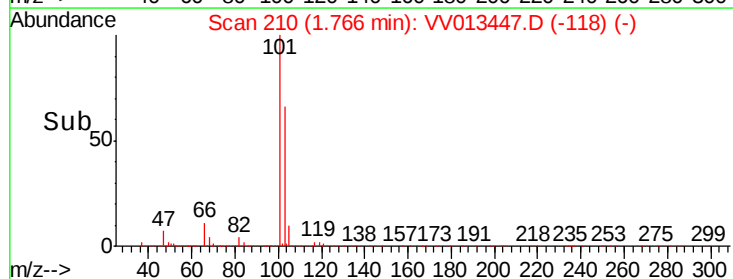
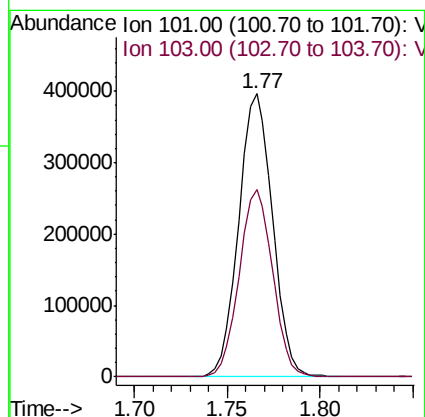
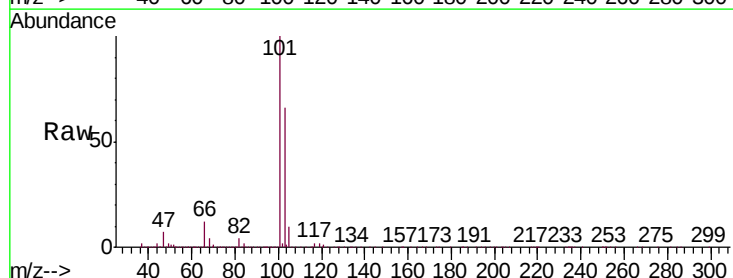
Acq: 31 Oct 2019 14:47

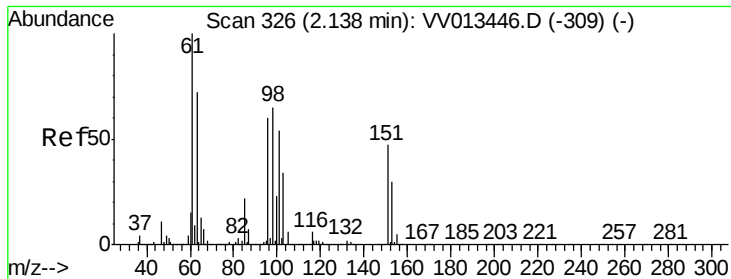
Tgt Ion: 101 Resp: 503446

Ion Ratio Lower Upper

101 100

103 65.6 52.1 78.1





#10

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

Concen: 8.915 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.01 min

Lab File: VV013447.D

Acq: 31 Oct 2019 14:47

Instrument :

MSVOA_V

ClientSampleId :

VSTD01036

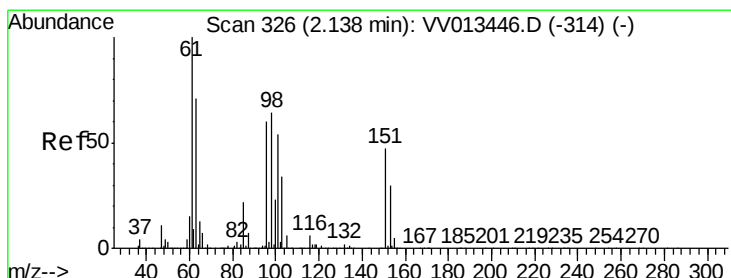
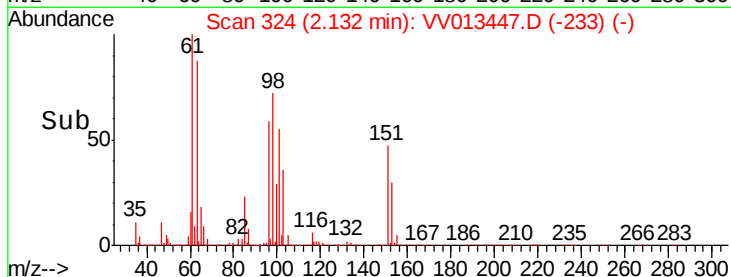
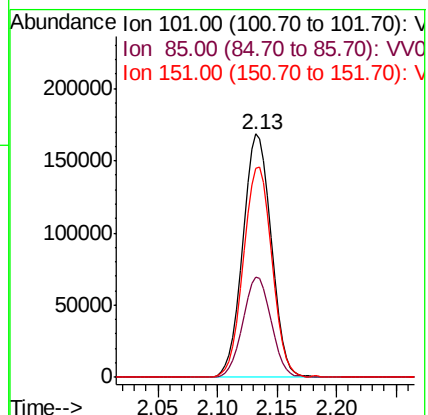
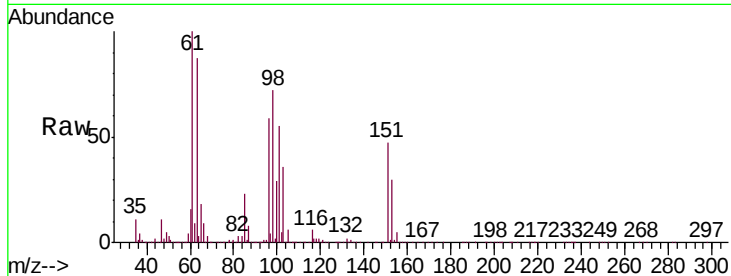
Tgt Ion: 101 Resp: 280395

Ion Ratio Lower Upper

101 100

85 41.0 33.1 49.7

151 86.4 68.8 103.2



#12

1,1-Dichloroethene

Concen: 8.812 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV013447.D

Acq: 31 Oct 2019 14:47

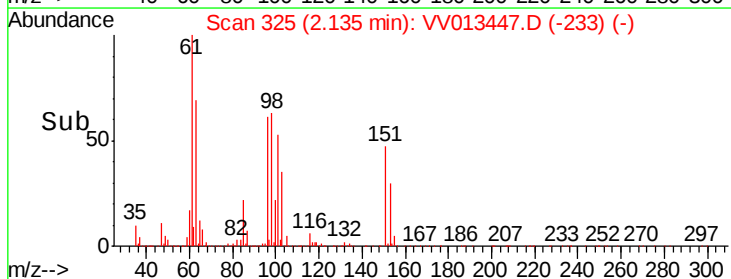
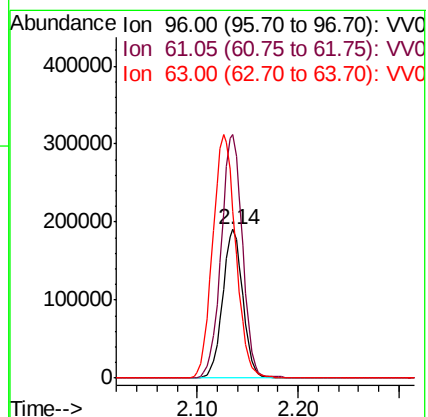
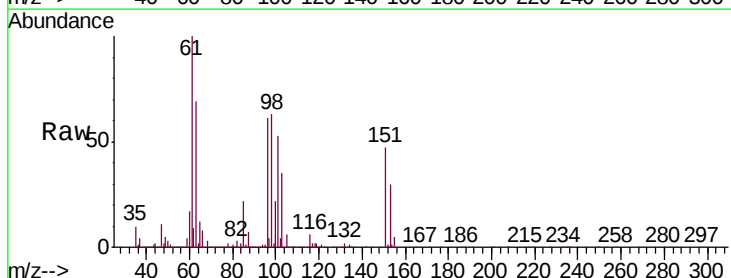
Tgt Ion: 96 Resp: 266212

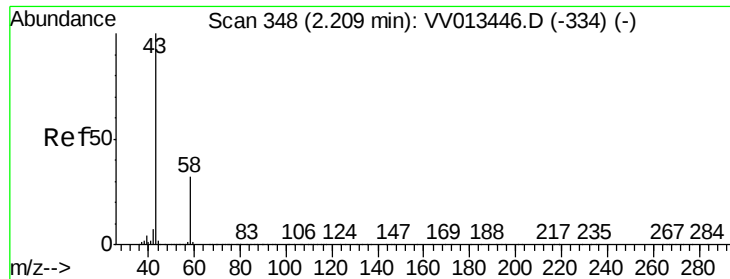
Ion Ratio Lower Upper

96 100

61 163.4 117.1 217.5

63 112.6 84.1 156.3





#13

Acetone

Concen: 24.335 ug/L

RT: 2.23 min Scan# 353

Delta R.T. 0.02 min

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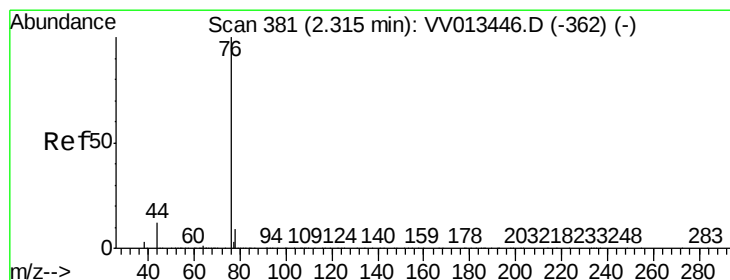
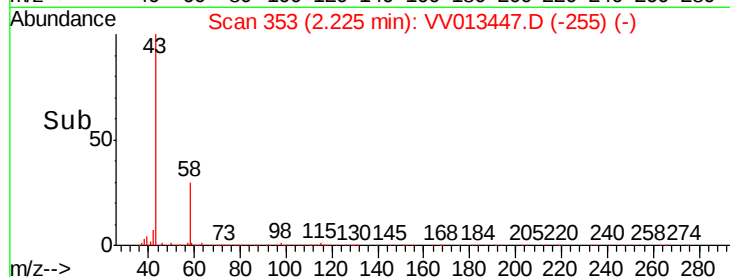
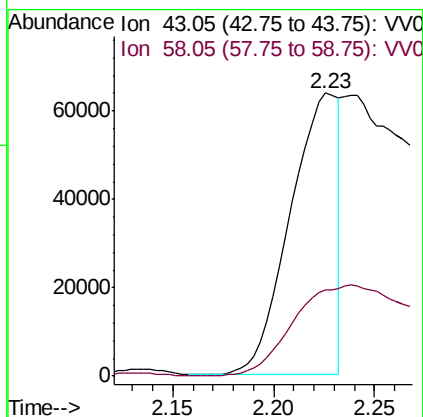
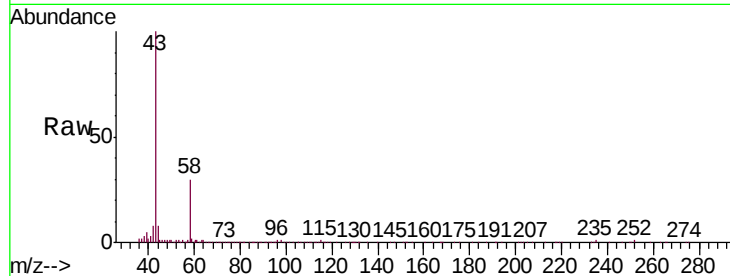
VSTD01036

Tgt Ion: 43 Resp: 105259

Ion Ratio Lower Upper

43 100

58 93.7 0.0 58.0#



#14

Carbon disulfide

Concen: 8.980 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.01 min

Lab File: VV013447.D

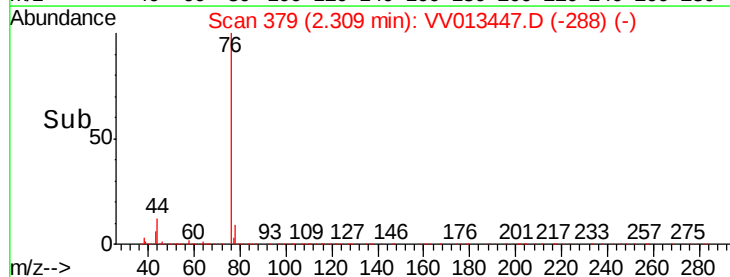
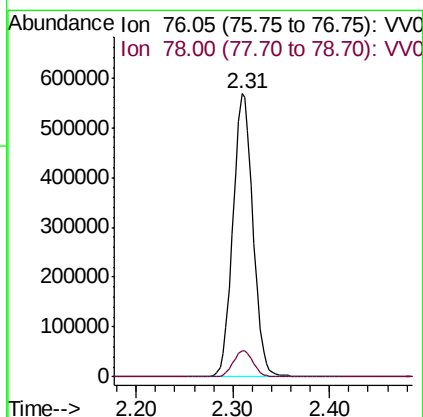
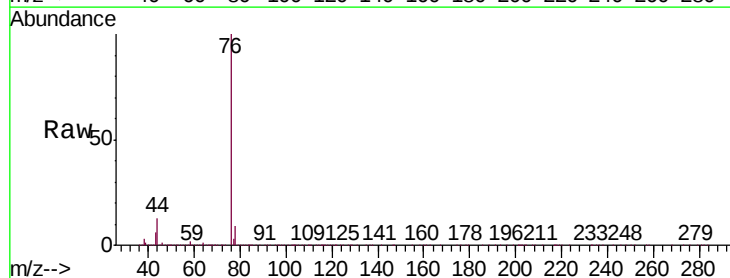
Acq: 31 Oct 2019 14:47

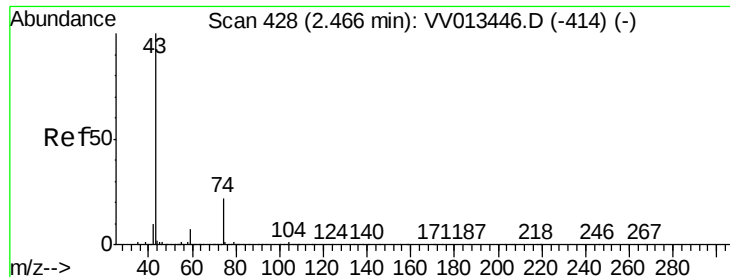
Tgt Ion: 76 Resp: 817465

Ion Ratio Lower Upper

76 100

78 9.1 7.4 11.0

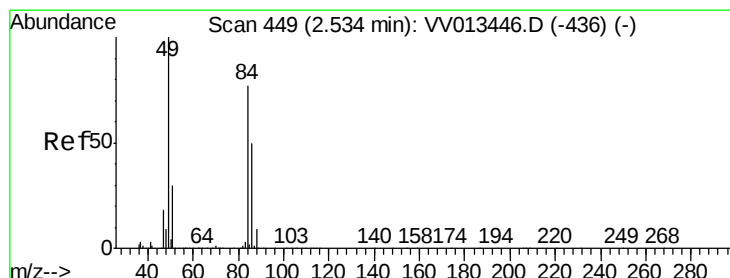
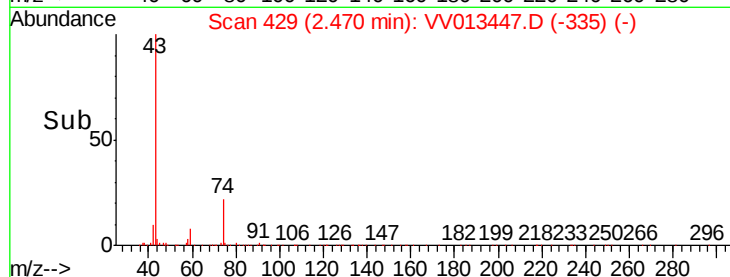
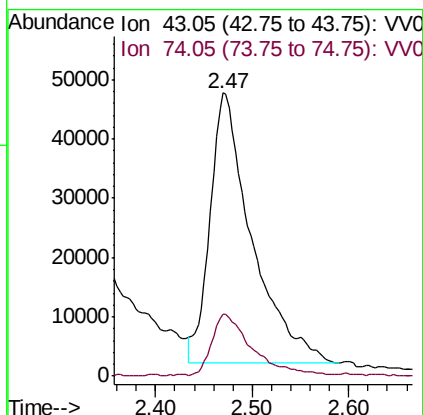
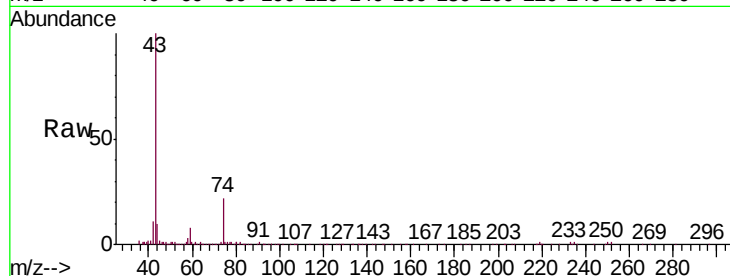




#15
Methyl Acetate
Concen: 8.658 ug/L
RT: 2.47 min Scan# 429
Delta R.T. 0.00 min
Lab File: VV013447.D
Acq: 31 Oct 2019 14:47

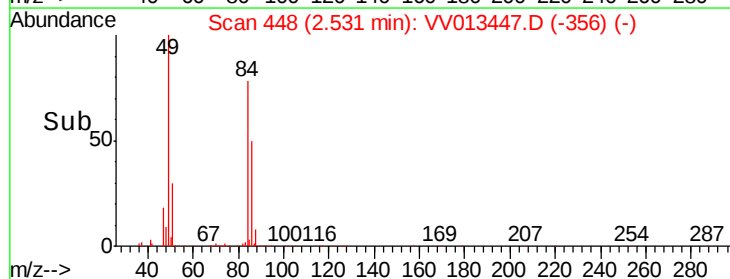
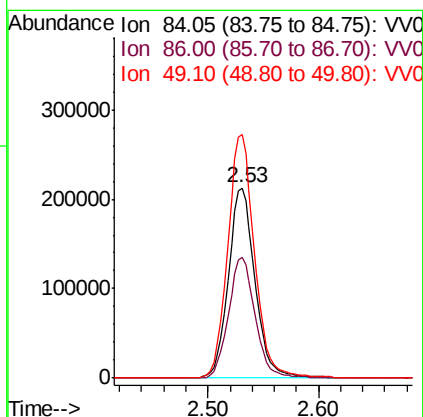
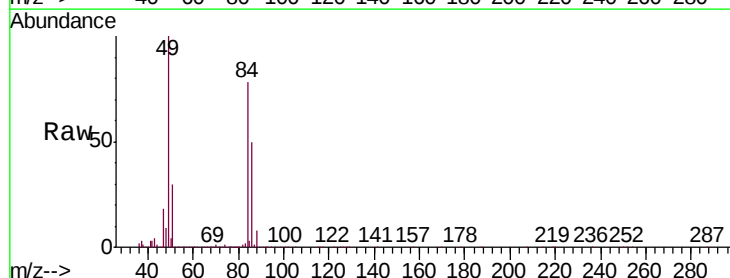
Instrument :
MSVOA_V
ClientSampleId :
VSTD01036

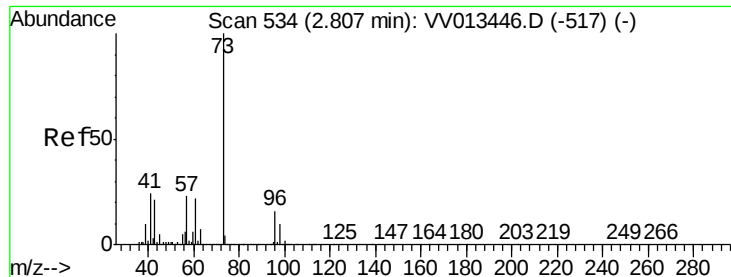
Tgt Ion: 43 Resp: 136997
Ion Ratio Lower Upper
43 100
74 21.3 17.8 26.8



#16
Methylene chloride
Concen: 8.139 ug/L
RT: 2.53 min Scan# 448
Delta R.T. -0.00 min
Lab File: VV013447.D
Acq: 31 Oct 2019 14:47

Tgt Ion: 84 Resp: 356116
Ion Ratio Lower Upper
84 100
86 63.7 45.3 84.1
49 127.9 90.4 168.0



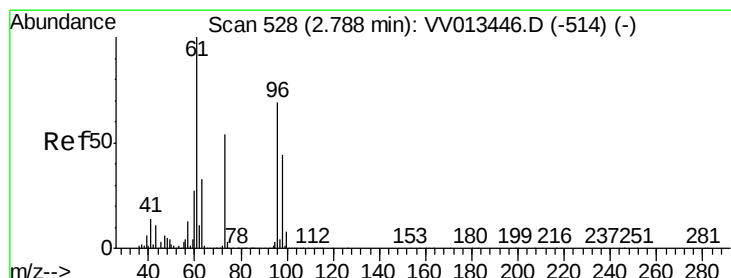
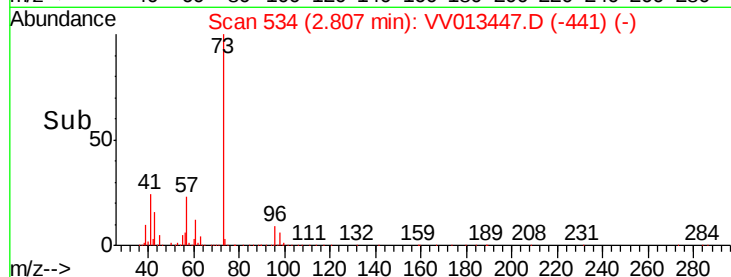
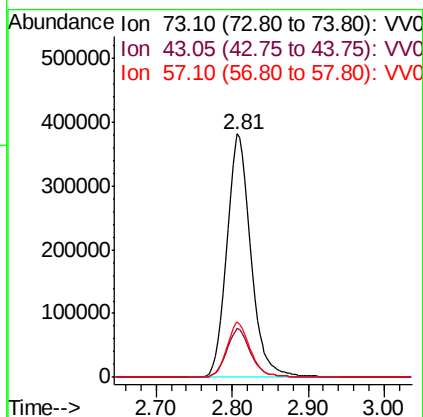
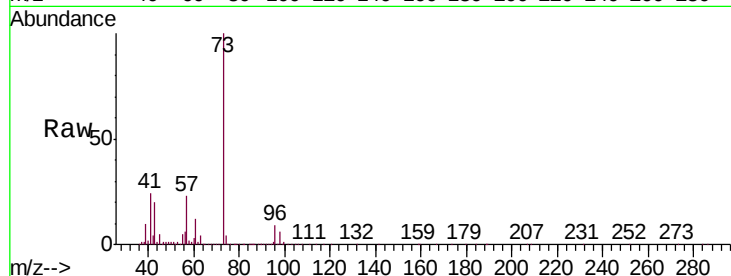


#17

Methyl tert-butyl Ether
Concen: 10.313 ug/L
RT: 2.81 min Scan# 534
Delta R.T. 0.00 min
Lab File: VV013447.D
Acq: 31 Oct 2019 14:47

Instrument :
MSVOA_V
ClientSampleId :
VSTD01036

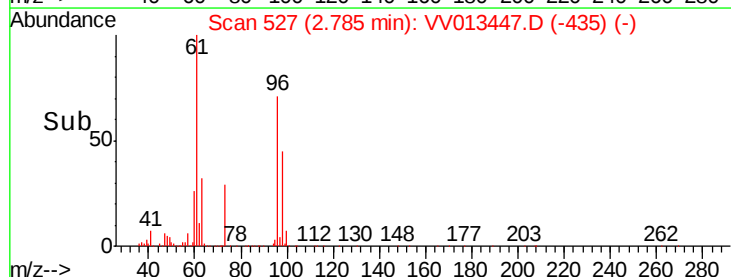
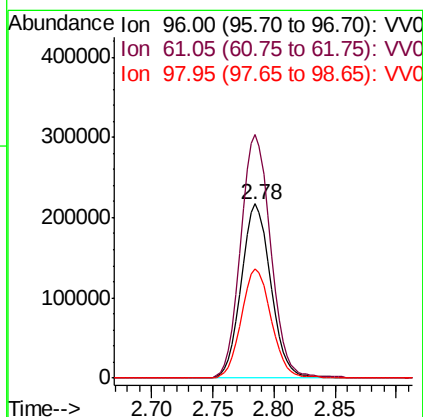
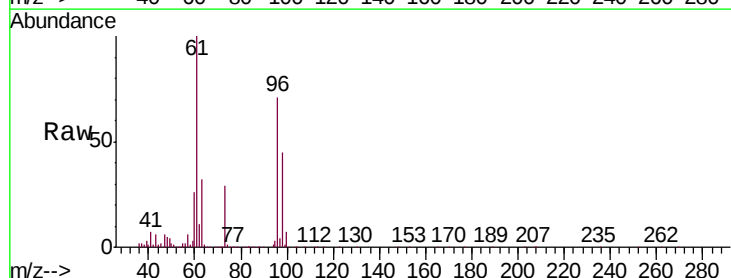
Tgt Ion:	73	Resp:	840851
Ion	Ratio	Lower	Upper
73	100		
43	19.8	15.9	23.9
57	22.3	18.5	27.7

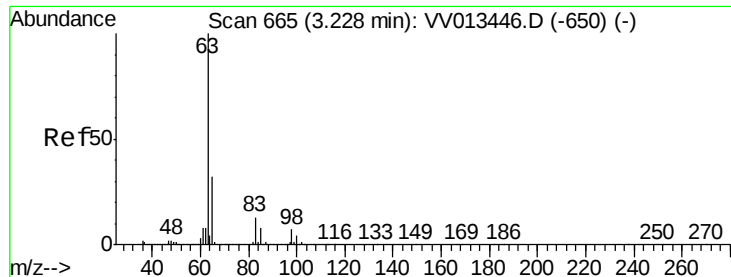


#18

trans-1,2-Dichloroethene
Concen: 9.079 ug/L
RT: 2.78 min Scan# 527
Delta R.T. -0.00 min
Lab File: VV013447.D
Acq: 31 Oct 2019 14:47

Tgt Ion:	96	Resp:	362459
Ion	Ratio	Lower	Upper
96	100		
61	139.9	102.2	189.8
98	62.8	44.9	83.5





#19

1,1-Dichloroethane

Concen: 9.133 ug/L

RT: 3.23 min Scan# 664

Delta R.T. -0.00 min

Lab File: VV013447.D

Acq: 31 Oct 2019 14:47

Instrument :

MSVOA_V

ClientSampleId :

VSTD01036

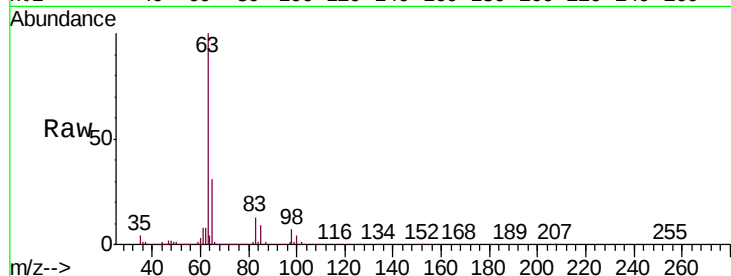
Tgt Ion: 63 Resp: 668735

Ion Ratio Lower Upper

63 100

65 31.3 22.5 41.7

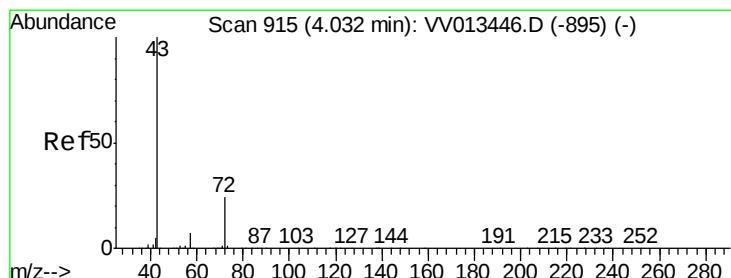
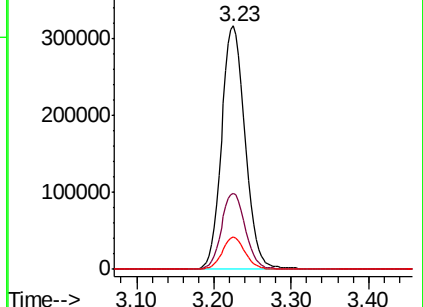
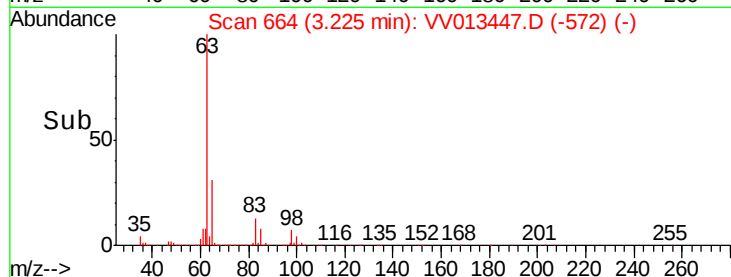
83 13.2 9.1 16.9



Abundance Ion 63.10 (62.80 to 63.80): VV0

Ion 65.10 (64.80 to 65.80): VV0

Ion 83.05 (82.75 to 83.75): VV0



#21

2-Butanone

Concen: 111.484 ug/L

RT: 4.05 min Scan# 920

Delta R.T. 0.02 min

Lab File: VV013447.D

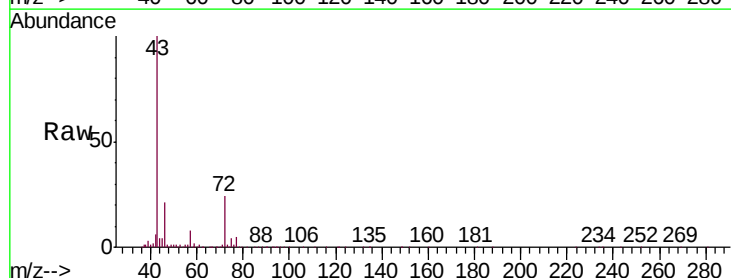
Acq: 31 Oct 2019 14:47

Tgt Ion: 43 Resp: 1048299

Ion Ratio Lower Upper

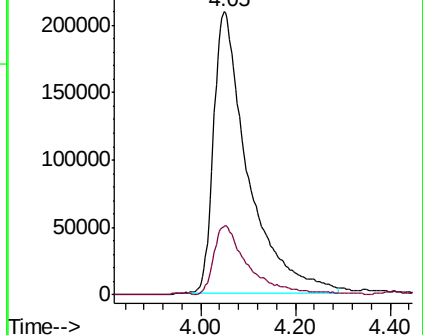
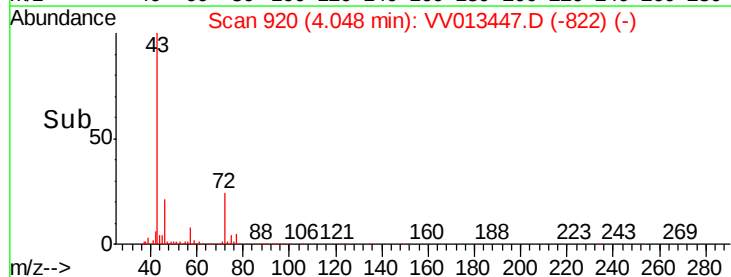
43 100

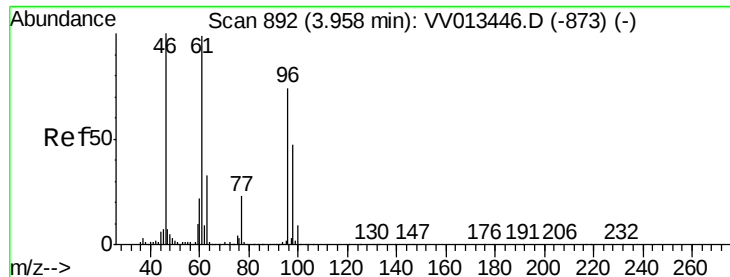
72 23.7 10.9 32.7



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 72.10 (71.80 to 72.80): VV0



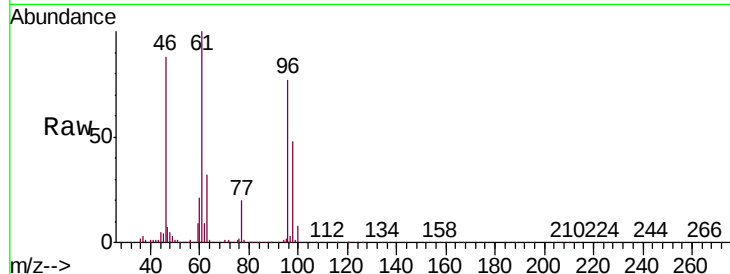


#22

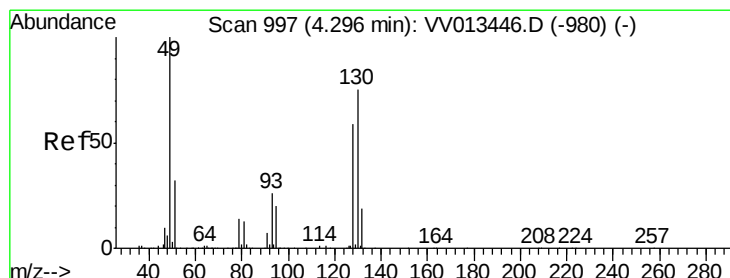
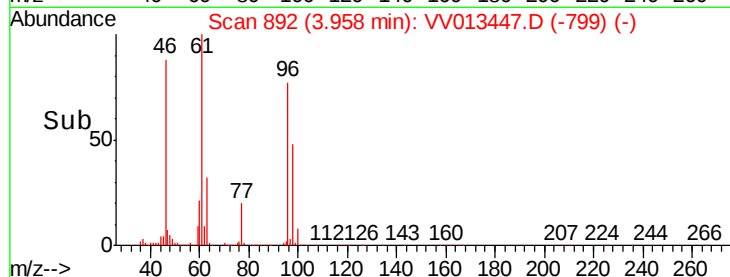
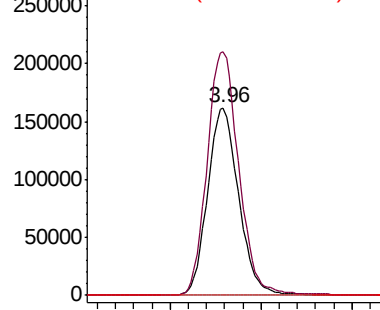
cis-1,2-Dichloroethene
Concen: 9.504 ug/L
RT: 3.96 min Scan# 892
Delta R.T. 0.00 min
Lab File: VV013447.D
Acq: 31 Oct 2019 14:47

Instrument :
MSVOA_V
ClientSampled :
VSTD01036

Tgt Ion: 96 Resp: 383465
Ion Ratio Lower Upper
96 100
61 129.9 94.2 175.0
68 0.0 0.1 0.3#



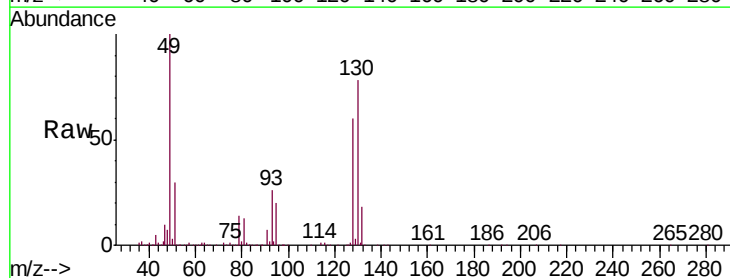
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 68.15 (67.85 to 68.85): VV0



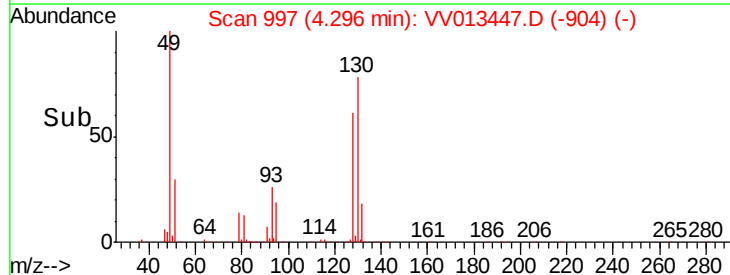
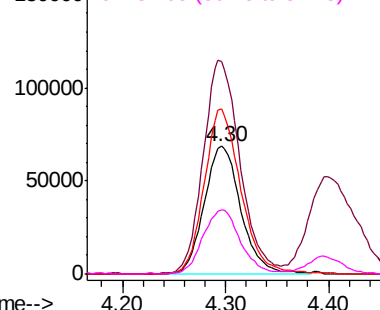
#23

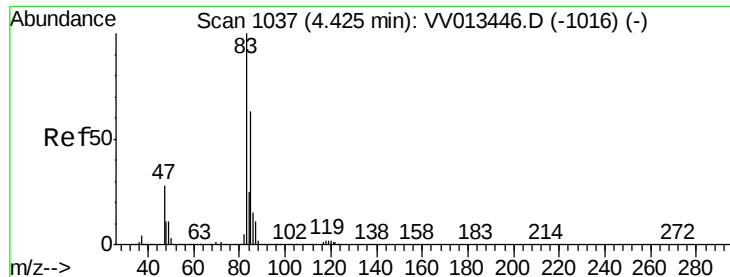
Bromochloromethane
Concen: 9.295 ug/L
RT: 4.30 min Scan# 997
Delta R.T. 0.00 min
Lab File: VV013447.D
Acq: 31 Oct 2019 14:47

Tgt Ion: 128 Resp: 169693
Ion Ratio Lower Upper
128 100
49 166.3 118.8 220.6
130 129.4 89.0 165.4
51 50.3 44.2 66.2



Abundance Ion 127.90 (127.60 to 128.60): V
Ion 49.10 (48.80 to 49.80): VV0
Ion 129.95 (129.65 to 130.65): V
Ion 51.05 (50.75 to 51.75): VV0





#25

Chloroform

Concen: 8.629 ug/L

RT: 4.42 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VV013447.D

Acq: 31 Oct 2019 14:47

Instrument :

MSVOA_V

ClientSampleId :

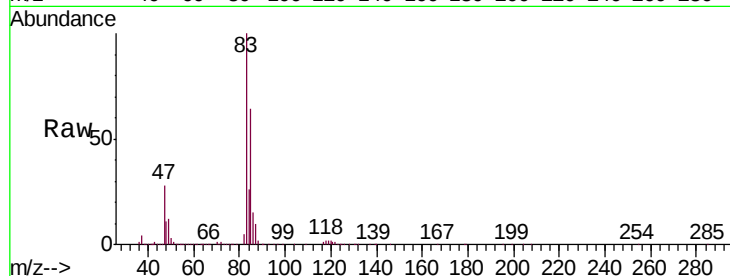
VSTD01036

Tgt Ion: 83 Resp: 671079

Ion Ratio Lower Upper

83 100

85 64.2 44.1 81.9



Abundance Ion 83.05 (82.75 to 83.75): VV013447.D (-1016) (-)

Ion 85.00 (84.70 to 85.70): VV013447.D (-1016) (-)

4.42

300000

250000

200000

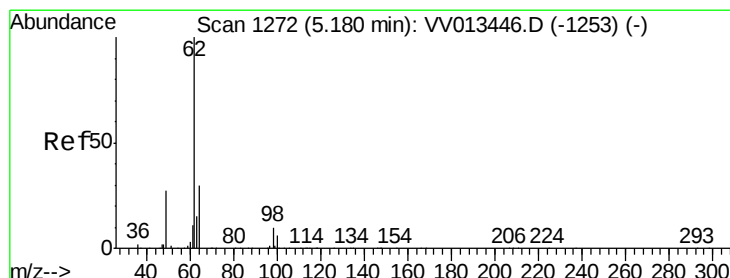
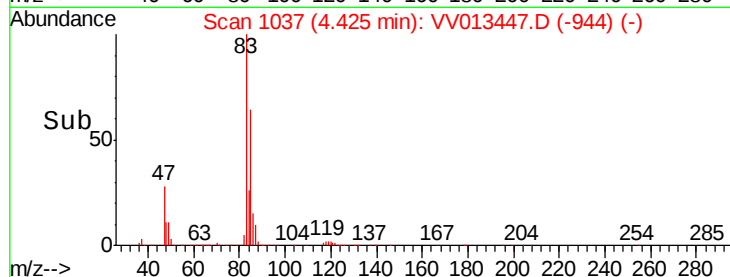
150000

100000

50000

0

Time-->



#27

1,2-Dichloroethane

Concen: 9.684 ug/L

RT: 5.18 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VV013447.D

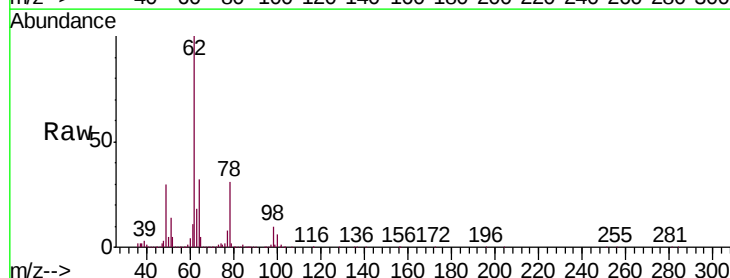
Acq: 31 Oct 2019 14:47

Tgt Ion: 62 Resp: 415925

Ion Ratio Lower Upper

62 100

98 10.1 7.7 11.5



Abundance Ion 62.00 (61.70 to 62.70): VV013447.D (-1253) (-)

Ion 98.05 (97.75 to 98.75): VV013447.D (-1253) (-)

5.18

200000

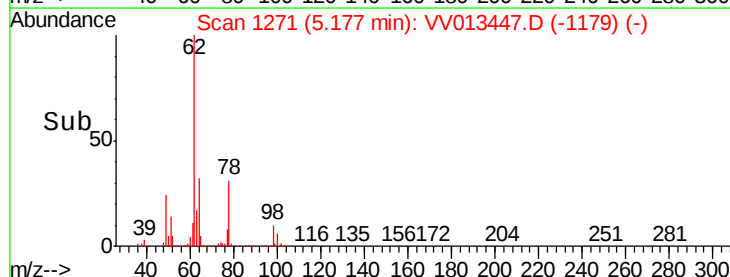
150000

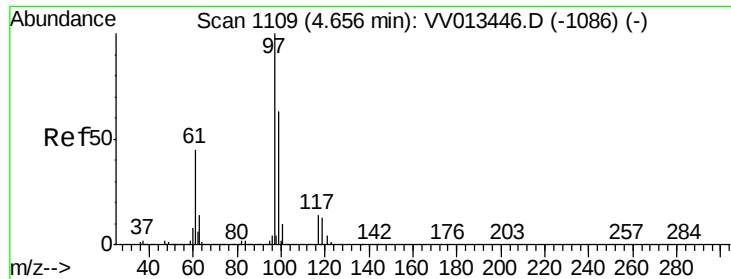
100000

50000

0

Time-->

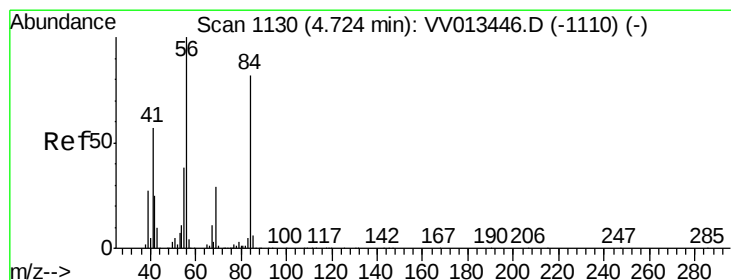
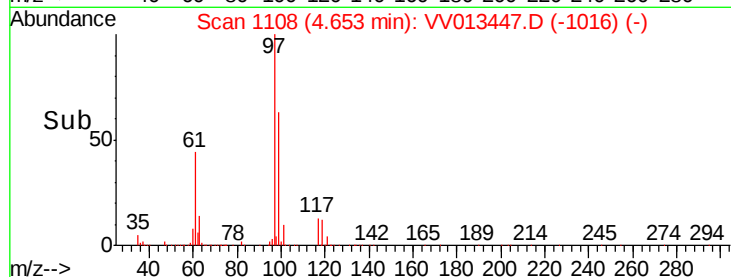
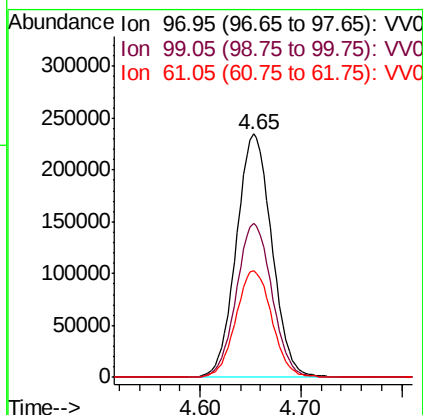
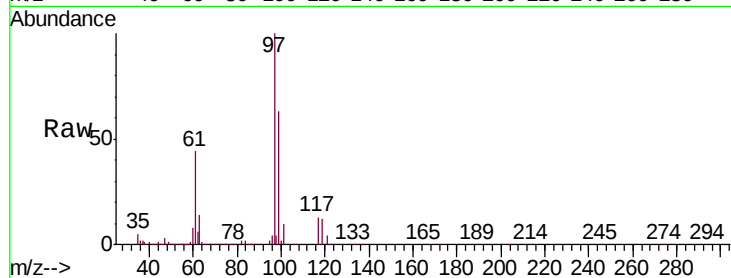




#29
 1,1,1-Trichloroethane
 Concen: 9.690 ug/L
 RT: 4.65 min Scan# 1108
 Delta R.T. -0.00 min
 Lab File: VV013447.D
 Acq: 31 Oct 2019 14:47

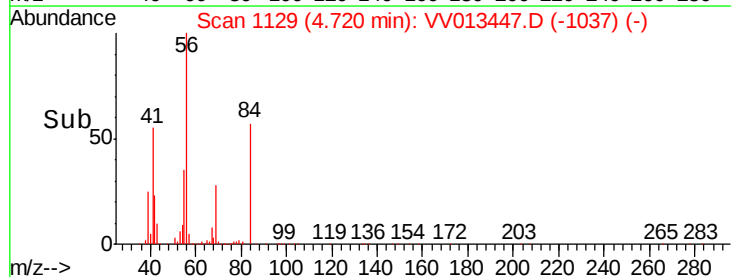
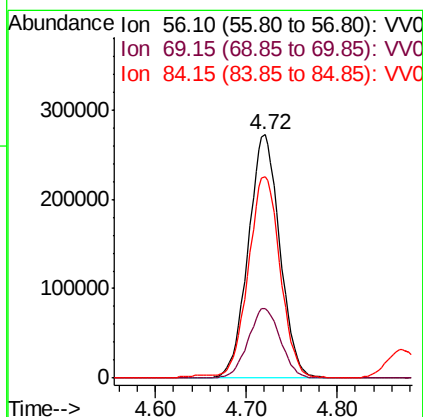
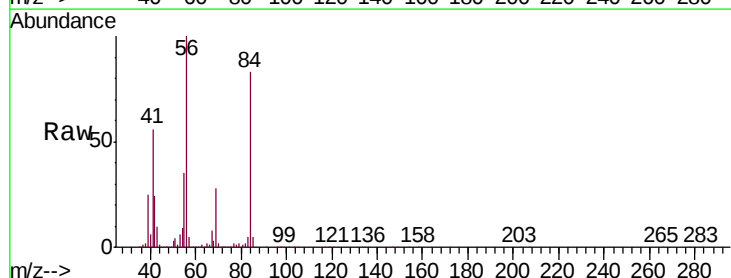
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD01036

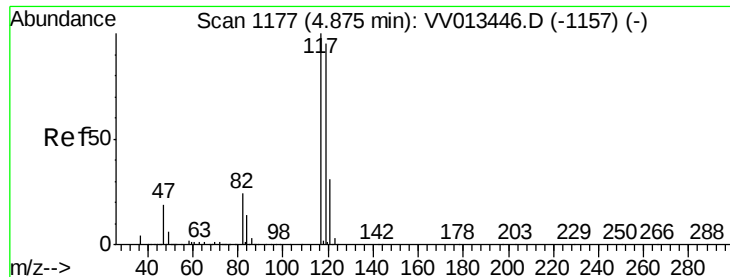
Tgt Ion: 97 Resp: 571992
 Ion Ratio Lower Upper
 97 100
 99 63.5 51.5 77.3
 61 44.6 35.8 53.8



#30
 Cyclohexane
 Concen: 10.517 ug/L
 RT: 4.72 min Scan# 1129
 Delta R.T. -0.00 min
 Lab File: VV013447.D
 Acq: 31 Oct 2019 14:47

Tgt Ion: 56 Resp: 655642
 Ion Ratio Lower Upper
 56 100
 69 29.1 23.0 34.6
 84 83.3 66.6 100.0





#31

Carbon tetrachloride

Concen: 9.501 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. -0.00 min

Lab File: VV013447.D

Acq: 31 Oct 2019 14:47

Instrument :

MSVOA_V

ClientSampleId :

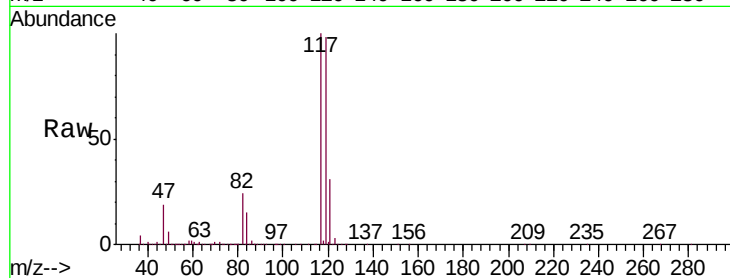
VSTD01036

Tgt Ion:117 Resp: 508776

Ion Ratio Lower Upper

117 100

119 96.2 76.8 115.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

250000

200000

150000

100000

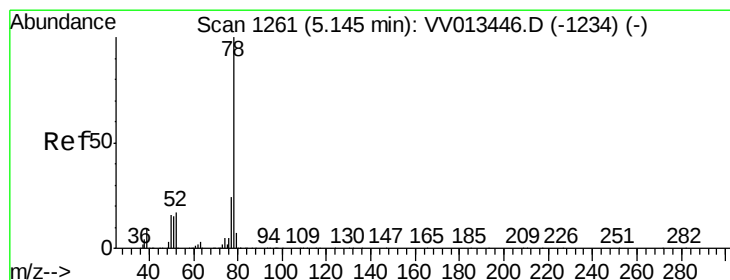
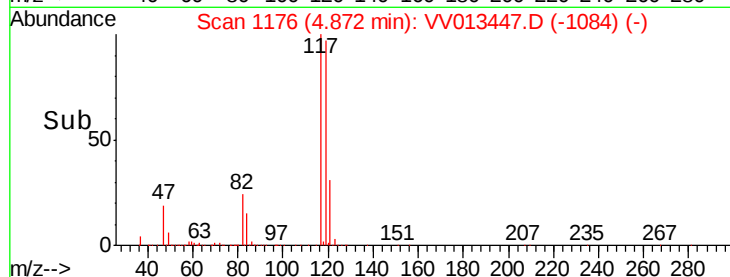
50000

0

4.87

4.80 4.90 5.00

Time-->



#33

Benzene

Concen: 9.856 ug/L

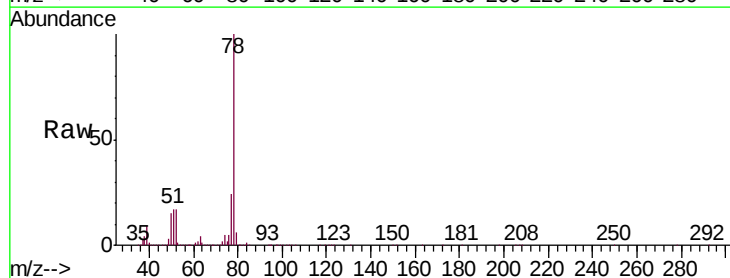
RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

Lab File: VV013447.D

Acq: 31 Oct 2019 14:47

Tgt Ion: 78 Resp: 1464858



Abundance Ion 78.10 (77.80 to 78.80): VV0

800000

600000

400000

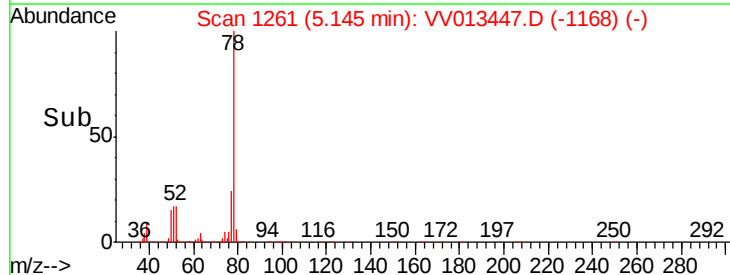
200000

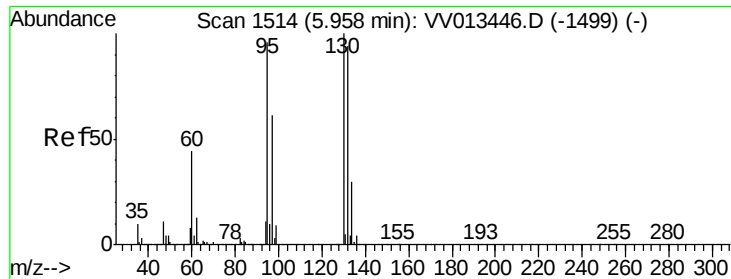
0

5.14

5.00 5.10 5.20

Time-->





#34

Trichloroethene

Concen: 9.286 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VV013447.D

Acq: 31 Oct 2019 14:47

Instrument :

MSVOA_V

ClientSampleId :

VSTD01036

Tgt Ion: 95 Resp: 380589

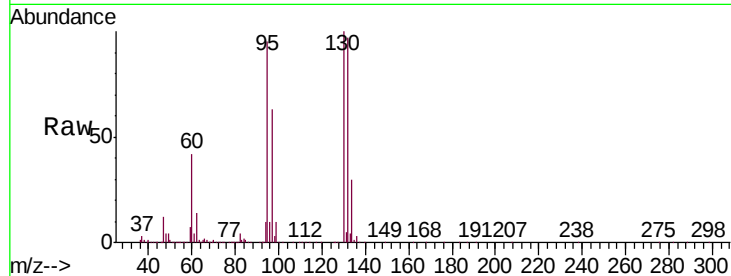
Ion Ratio Lower Upper

95 100

97 66.4 44.2 82.2

132 102.2 68.4 127.0

130 105.4 72.9 135.5

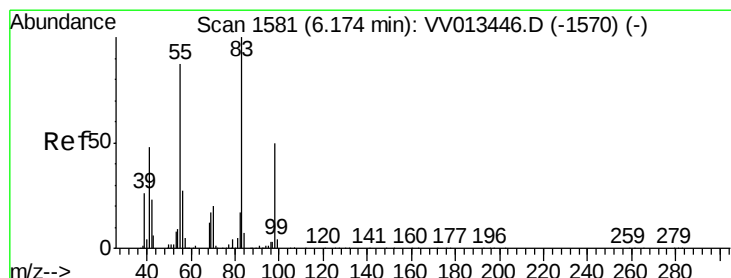
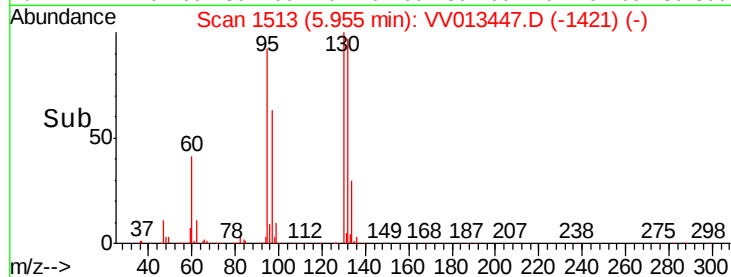
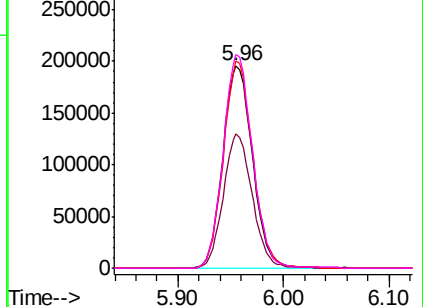


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0



#35

Methylcyclohexane

Concen: 10.451 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. 0.00 min

Lab File: VV013447.D

Acq: 31 Oct 2019 14:47

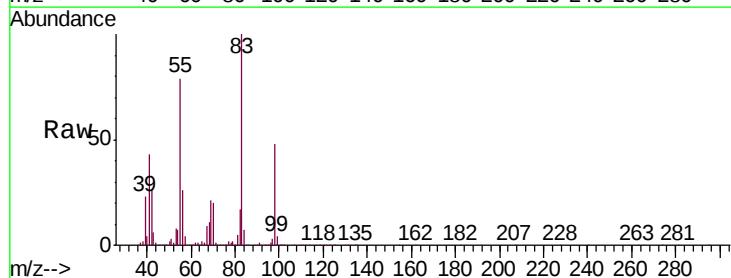
Tgt Ion: 83 Resp: 637436

Ion Ratio Lower Upper

83 100

55 80.1 64.6 96.8

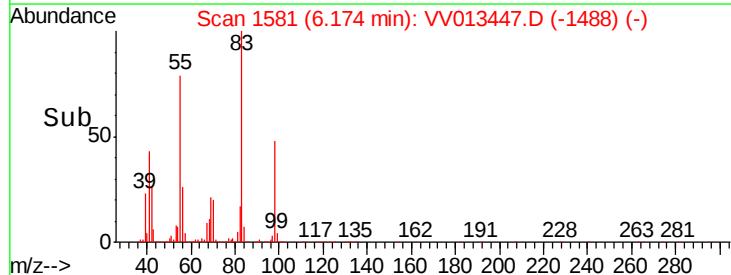
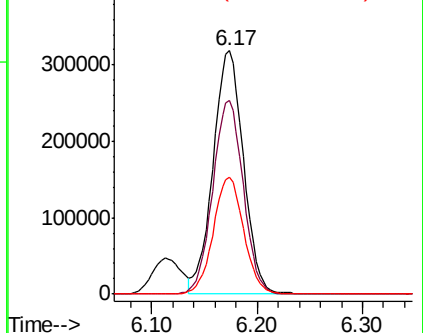
98 47.8 39.1 58.7

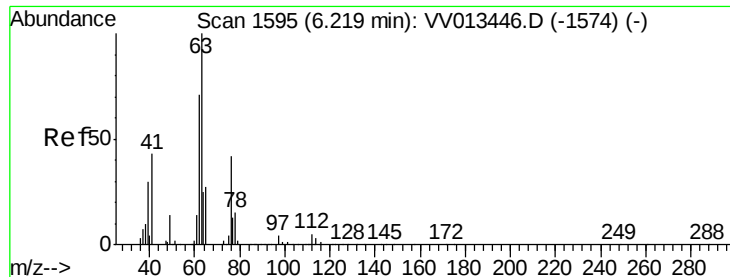


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0





#37

1,2-Dichloropropane

Concen: 9.800 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. 0.00 min

Lab File: VV013447.D

Acq: 31 Oct 2019 14:47

Instrument :

MSVOA_V

ClientSampleId :

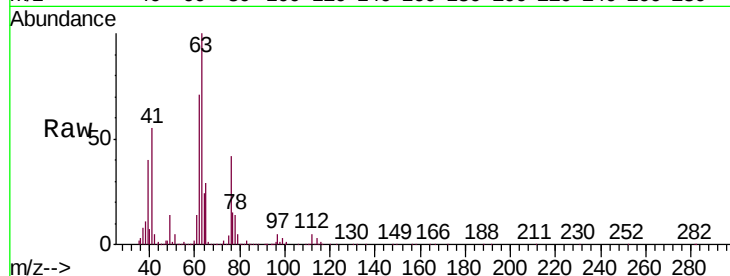
VSTD01036

Tgt Ion: 63 Resp: 367962

Ion Ratio Lower Upper

63 100

112 4.6 3.8 5.8



Abundance Ion 63.10 (62.80 to 63.80): VV013447.D (-1574) (-)

Ion 112.10 (111.80 to 112.80): VV013447.D (-1574) (-)

6.22

200000

150000

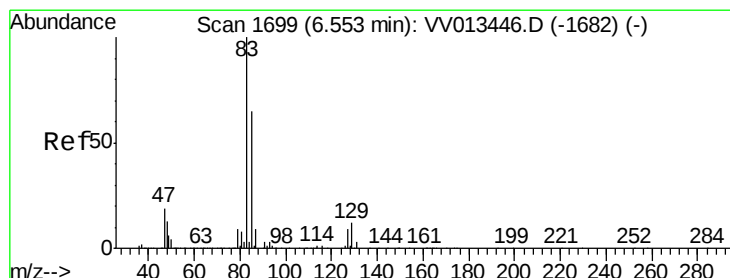
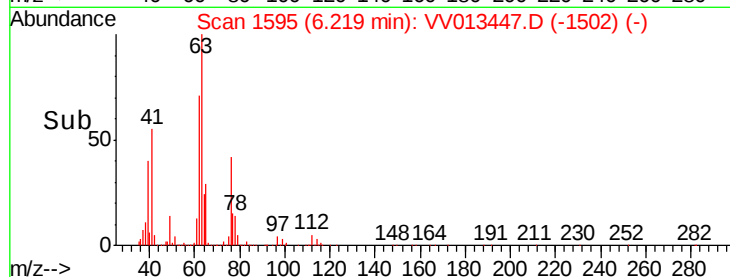
100000

50000

0

Time-->

6.10 6.20 6.30



#38

Bromodichloromethane

Concen: 9.626 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VV013447.D

Acq: 31 Oct 2019 14:47

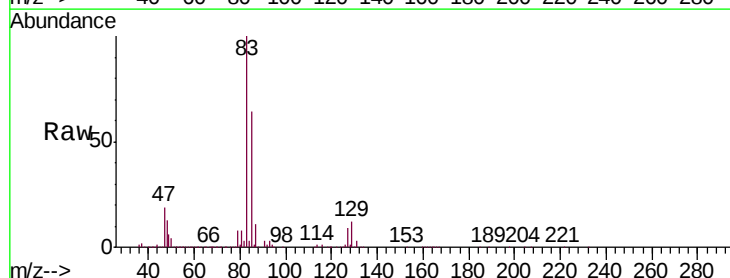
Tgt Ion: 83 Resp: 456282

Ion Ratio Lower Upper

83 100

85 63.7 45.1 83.9

127 8.6 7.0 10.4



Abundance Ion 82.95 (82.65 to 83.65): VV013447.D (-1606) (-)

Ion 85.00 (84.70 to 85.70): VV013447.D (-1606) (-)

Ion 126.90 (126.60 to 127.60): VV013447.D (-1606) (-)

6.55

300000

250000

200000

150000

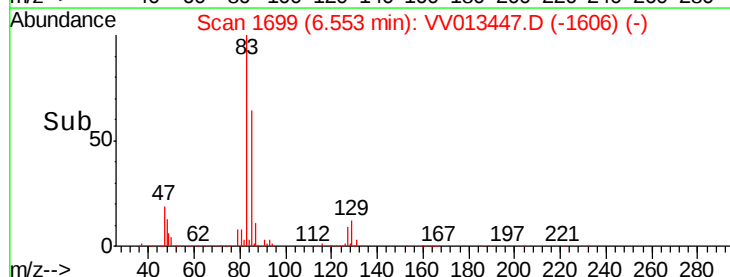
100000

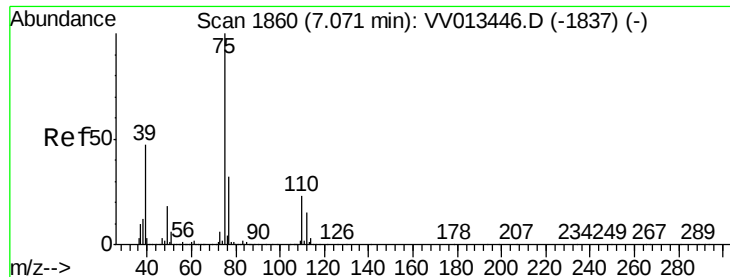
50000

0

Time-->

6.45 6.50 6.55 6.60 6.65

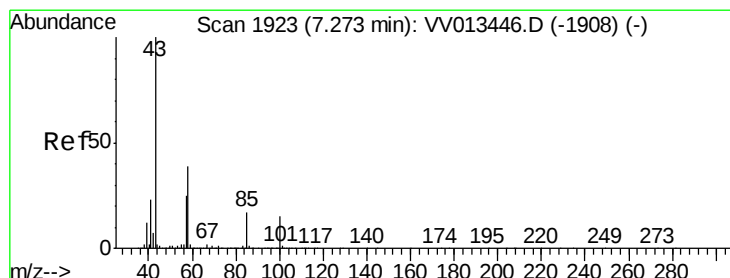
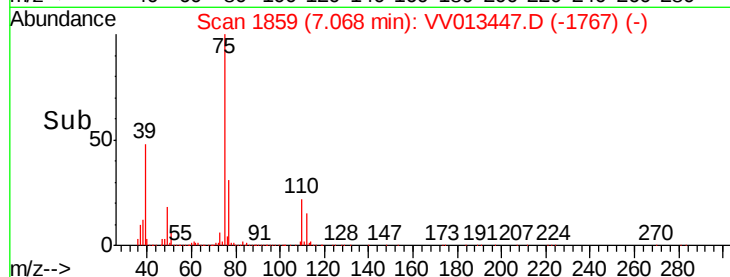
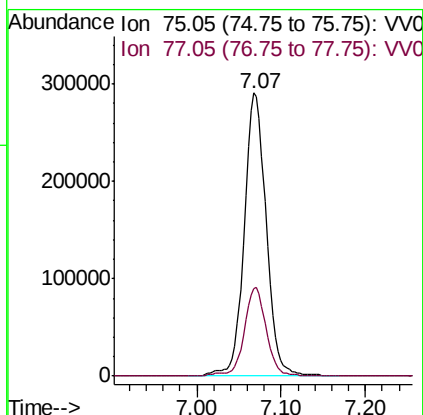
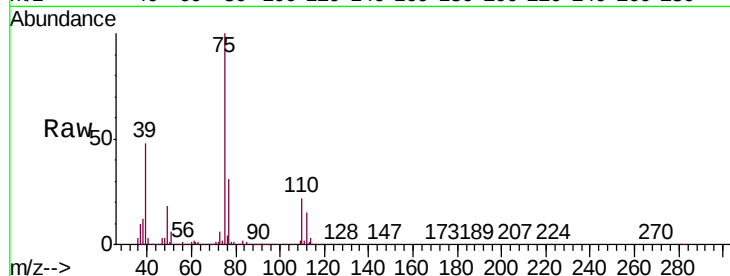




#39
 cis-1,3-Dichloropropene
 Concen: 10.379 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. -0.00 min
 Lab File: VV013447.D
 Acq: 31 Oct 2019 14:47

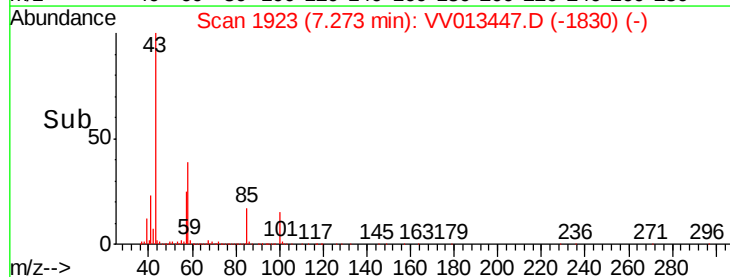
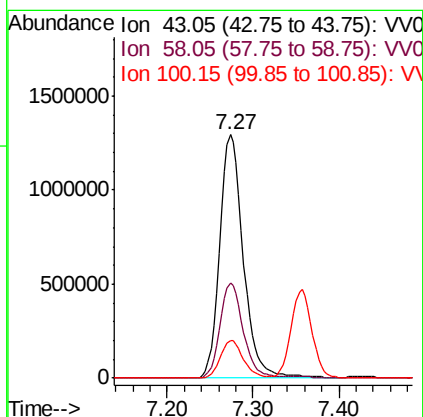
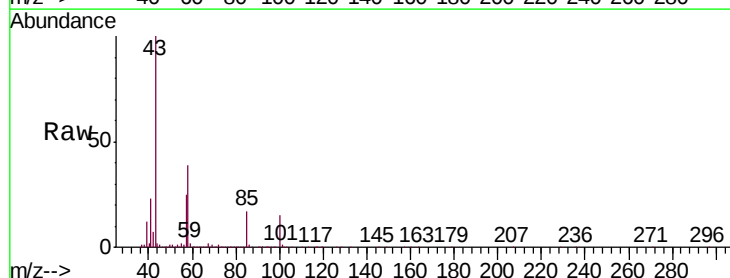
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD01036

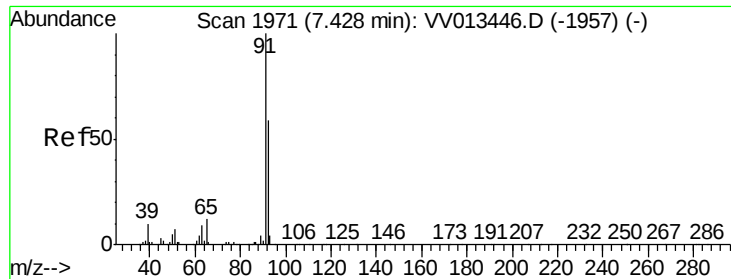
Tgt Ion: 75 Resp: 529926
 Ion Ratio Lower Upper
 75 100
 77 31.1 22.7 42.1



#40
 4-Methyl-2-pentanone
 Concen: 114.988 ug/L
 RT: 7.27 min Scan# 1923
 Delta R.T. 0.00 min
 Lab File: VV013447.D
 Acq: 31 Oct 2019 14:47

Tgt Ion: 43 Resp: 2473740
 Ion Ratio Lower Upper
 43 100
 58 38.4 30.9 46.3
 100 15.0 11.7 17.5





#42

Toluene

Concen: 9.840 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV013447.D

Acq: 31 Oct 2019 14:47

Instrument :

MSVOA_V

ClientSampleId :

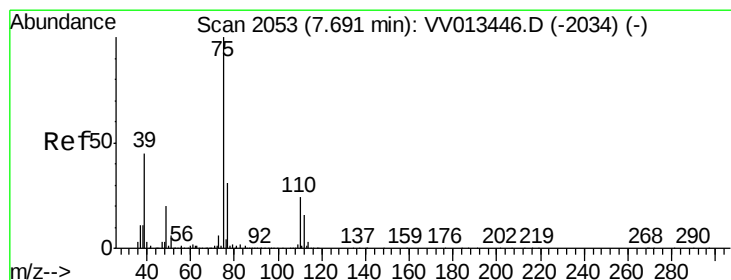
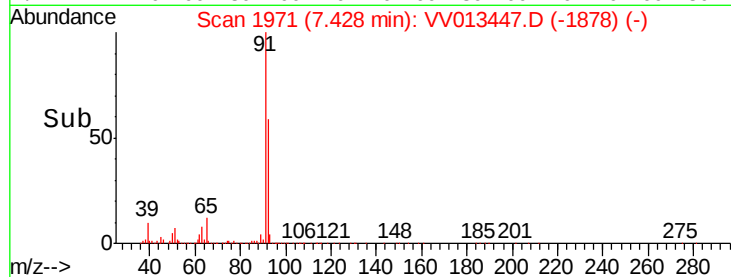
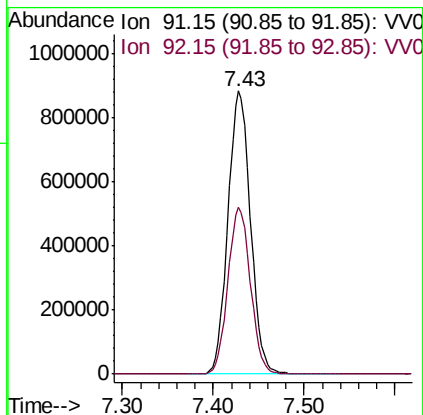
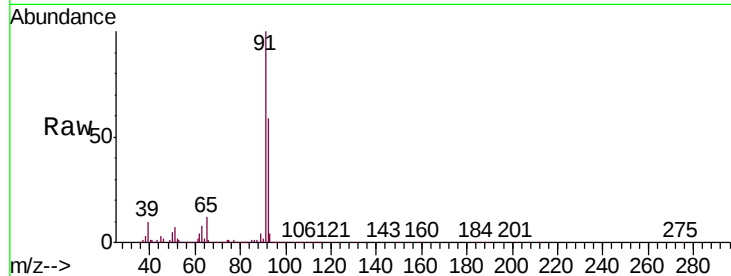
VSTD01036

Tgt Ion: 91 Resp: 1519856

Ion Ratio Lower Upper

91 100

92 59.0 41.5 77.1



#44

trans-1,3-Dichloropropene

Concen: 10.054 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV013447.D

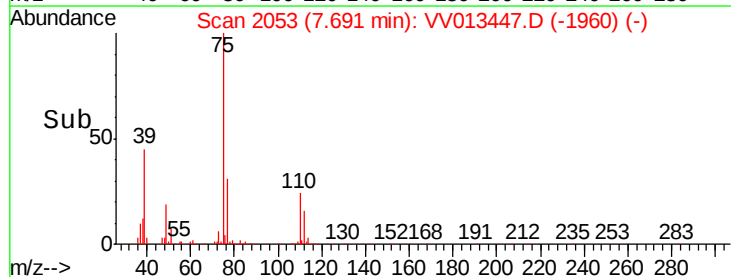
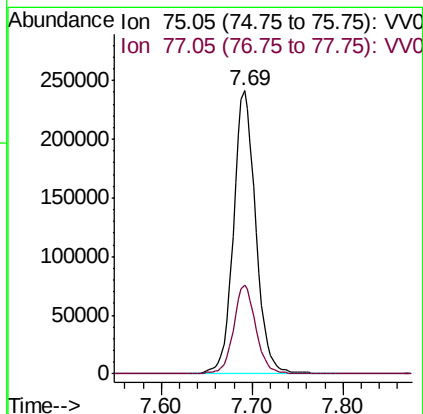
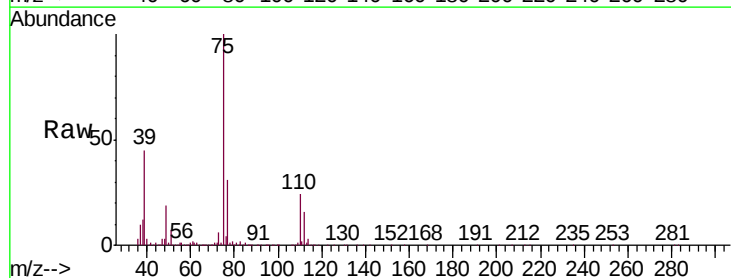
Acq: 31 Oct 2019 14:47

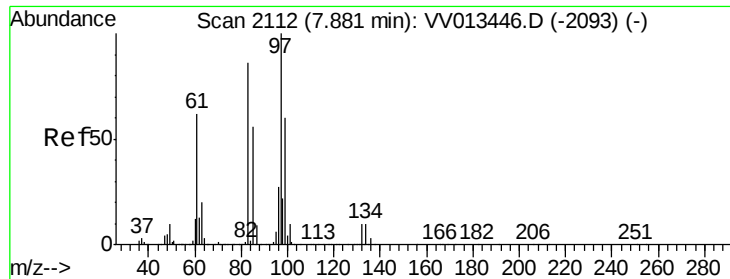
Tgt Ion: 75 Resp: 408170

Ion Ratio Lower Upper

75 100

77 31.4 21.9 40.7

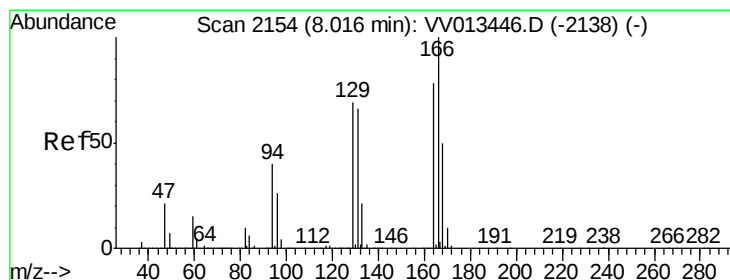
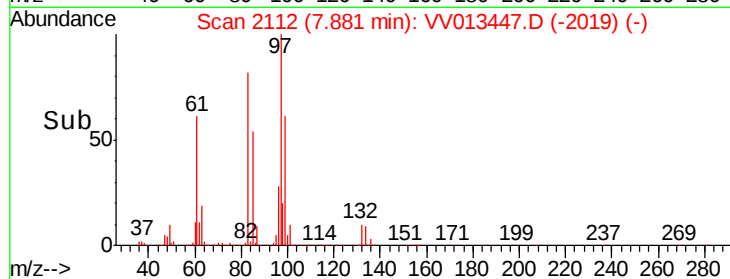
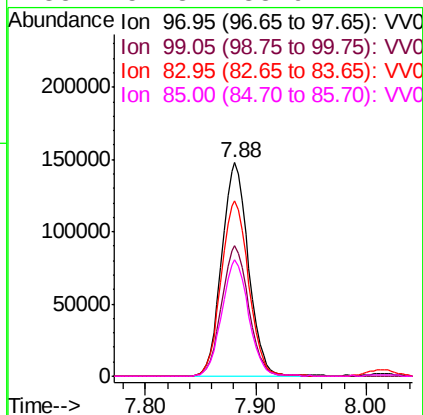
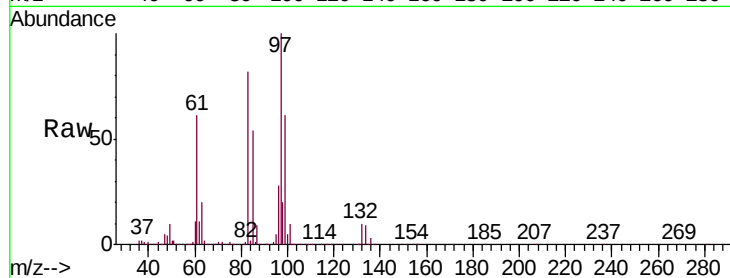




#45
 1,1,2-Trichloroethane
 Concen: 9.806 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VV013447.D
 Acq: 31 Oct 2019 14:47

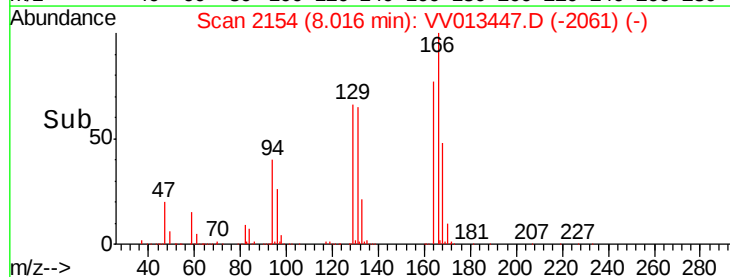
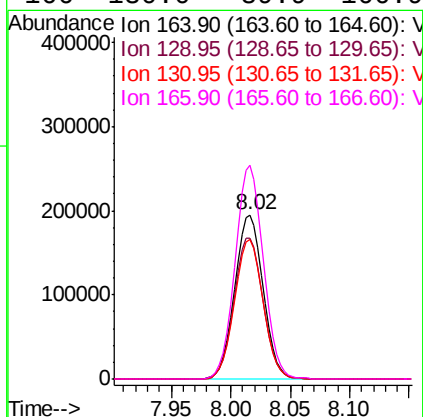
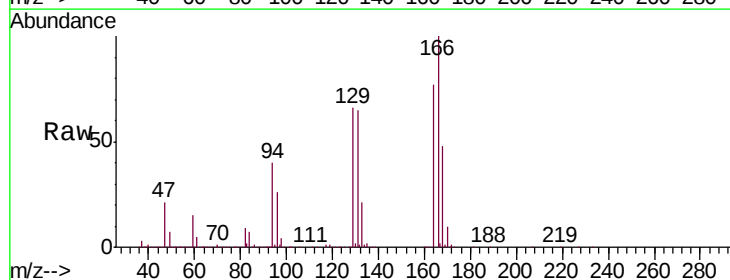
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD01036

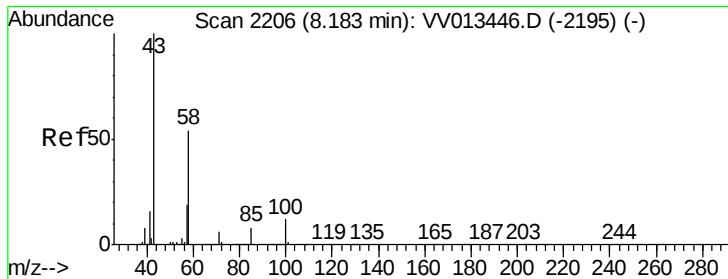
Tgt Ion:	97	Resp:	247343
Ion	Ratio	Lower	Upper
97	100		
99	60.9	42.3	78.5
83	82.2	60.0	111.4
85	54.3	38.9	72.2



#47
 Tetrachloroethene
 Concen: 9.358 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. 0.00 min
 Lab File: VV013447.D
 Acq: 31 Oct 2019 14:47

Tgt Ion:	164	Resp:	323144
Ion	Ratio	Lower	Upper
164	100		
129	86.0	61.7	114.5
131	84.7	59.4	110.2
166	130.0	89.9	166.9





#48

2-Hexanone

Concen: 113.603 ug/L

RT: 8.18 min Scan# 2206

Delta R.T. 0.00 min

Lab File: VV013447.D

Acq: 31 Oct 2019 14:47

Instrument :

MSVOA_V

ClientSampleId :

VSTD01036

Tgt Ion: 43 Resp: 1758457

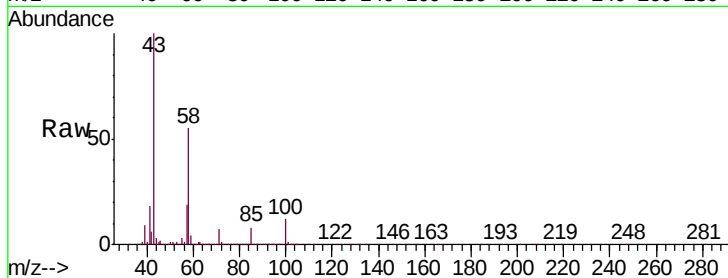
Ion Ratio Lower Upper

43 100

58 54.9 42.2 63.4

57 18.9 14.9 22.3

100 12.0 9.0 13.6

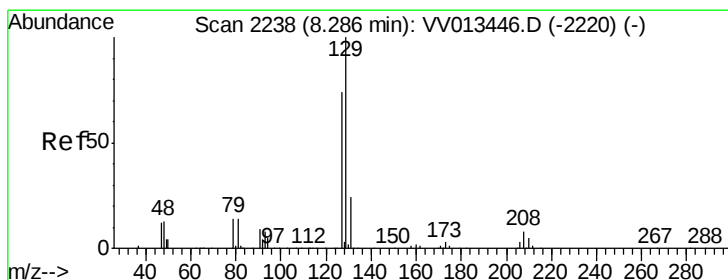
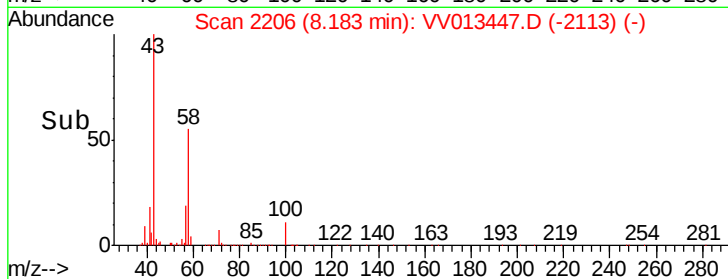
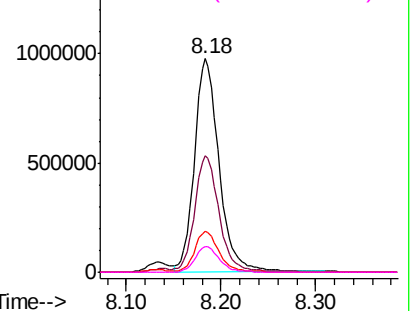


Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

Ion 57.20 (56.90 to 57.90): VV0

Ion 100.15 (99.85 to 100.85): VV0



#49

Dibromochloromethane

Concen: 9.792 ug/L

RT: 8.29 min Scan# 2238

Delta R.T. 0.00 min

Lab File: VV013447.D

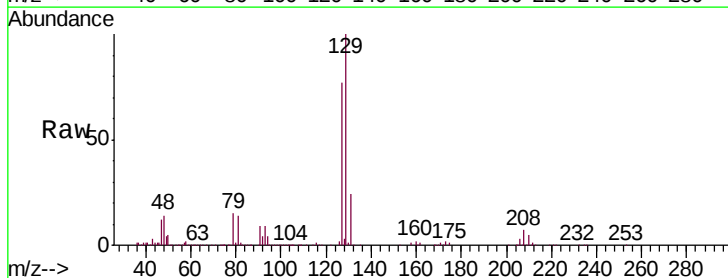
Acq: 31 Oct 2019 14:47

Tgt Ion: 129 Resp: 307407

Ion Ratio Lower Upper

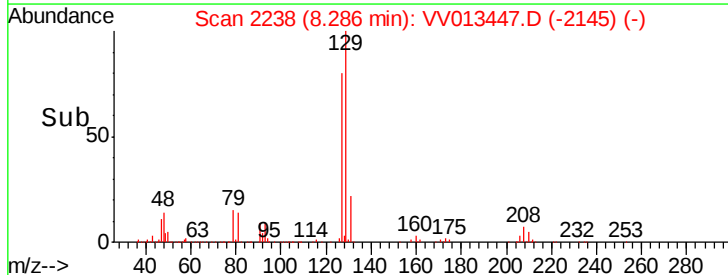
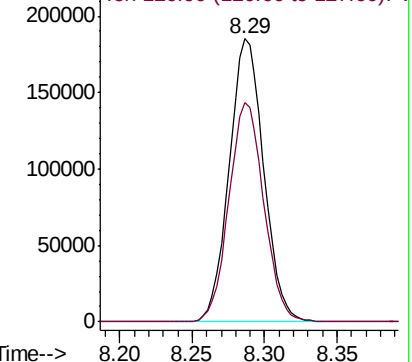
129 100

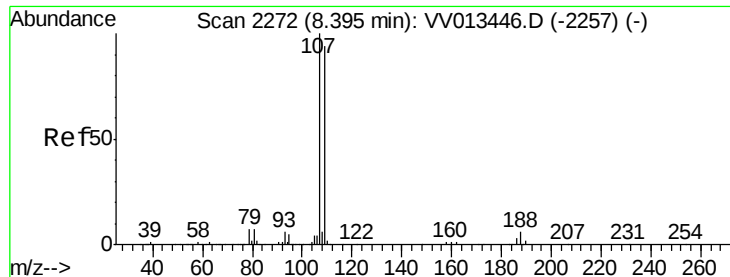
127 77.3 52.1 96.7



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

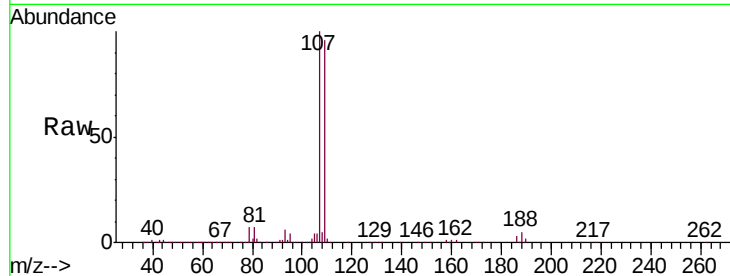




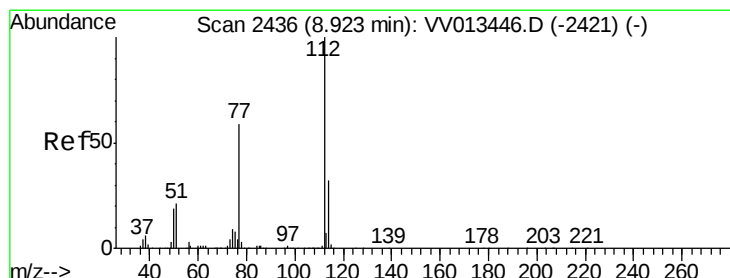
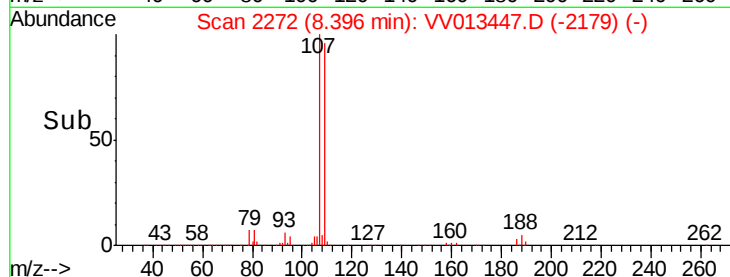
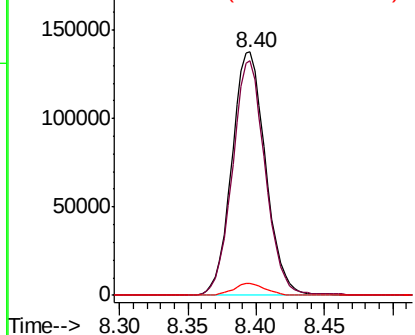
#50
 1,2-Dibromoethane
 Concen: 10.154 ug/L
 RT: 8.40 min Scan# 2272
 Delta R.T. 0.00 min
 Lab File: VV013447.D
 Acq: 31 Oct 2019 14:47

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD01036

Tgt Ion	Ratio	Lower	Upper
107	100		
109	96.4	65.5	121.7
188	5.1	4.5	6.7

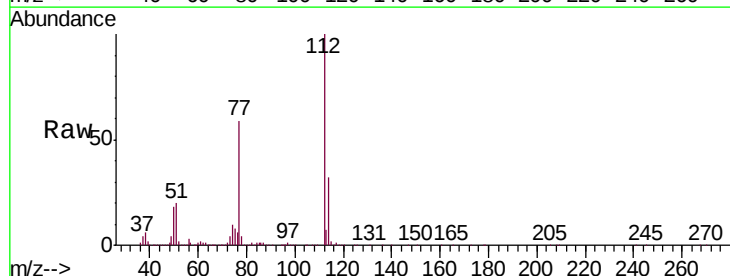


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

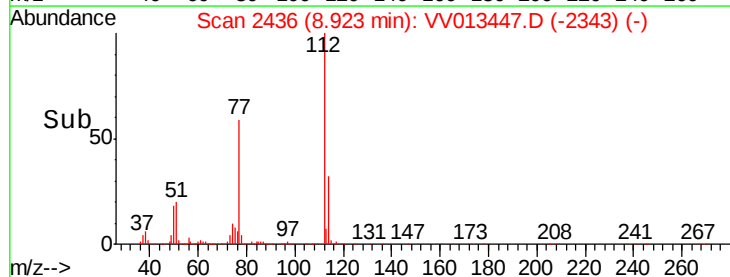
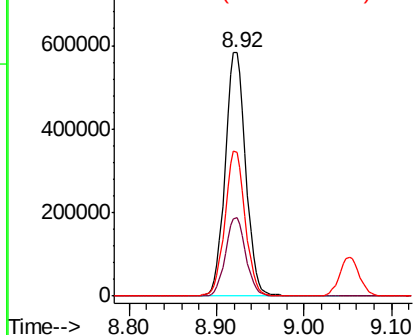


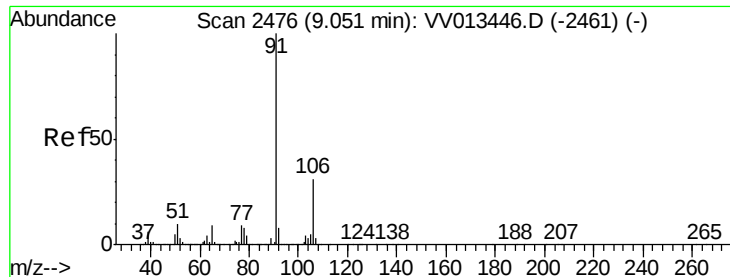
#51
 Chlorobenzene
 Concen: 9.481 ug/L
 RT: 8.92 min Scan# 2436
 Delta R.T. 0.00 min
 Lab File: VV013447.D
 Acq: 31 Oct 2019 14:47

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.2	22.5	41.7
77	59.0	47.3	70.9



Abundance Ion 112.10 (111.80 to 112.80): V
 Ion 114.05 (113.75 to 114.75): V
 Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 10.053 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. 0.00 min

Lab File: VV013447.D

Acq: 31 Oct 2019 14:47

Instrument :

MSVOA_V

ClientSampleId :

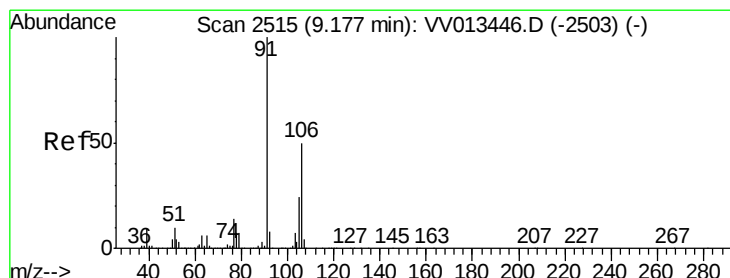
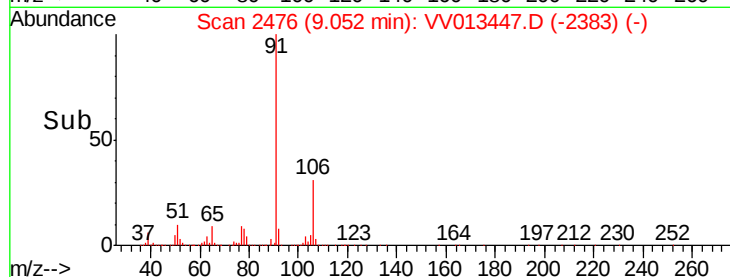
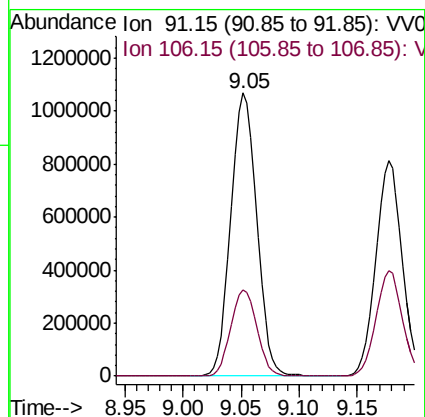
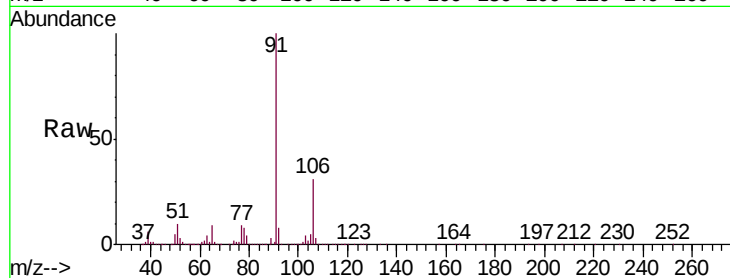
VSTD01036

Tgt Ion: 91 Resp: 1654002

Ion Ratio Lower Upper

91 100

106 30.6 21.5 39.9



#53

m,p-xylene

Concen: 10.428 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. 0.00 min

Lab File: VV013447.D

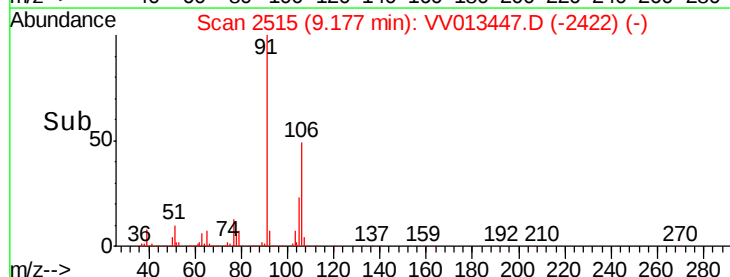
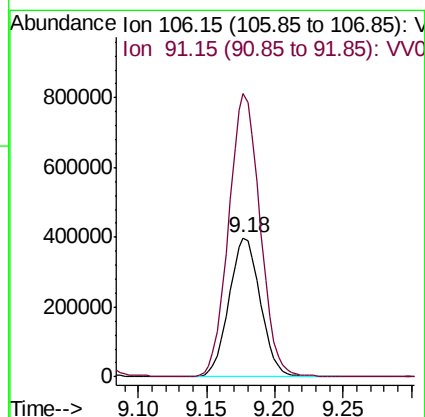
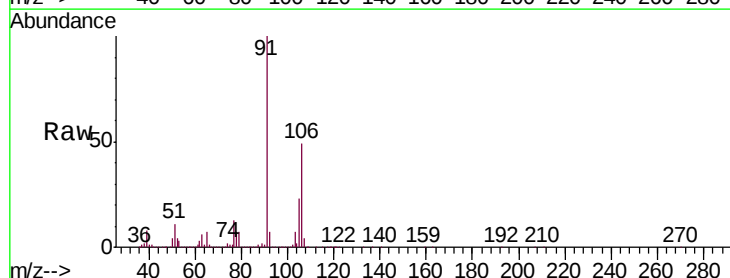
Acq: 31 Oct 2019 14:47

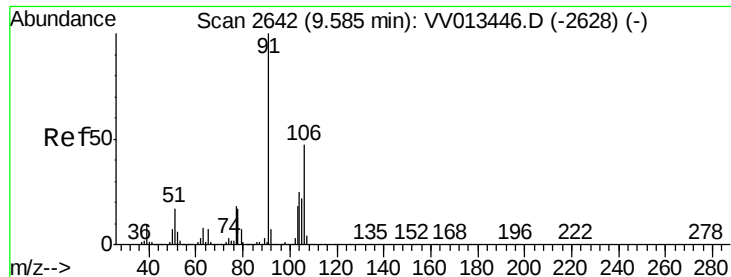
Tgt Ion: 106 Resp: 636018

Ion Ratio Lower Upper

106 100

91 203.3 141.5 262.7





#54

o-xylene

Concen: 10.230 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. -0.00 min

Lab File: VV013447.D

Acq: 31 Oct 2019 14:47

Instrument :

MSVOA_V

ClientSampleId :

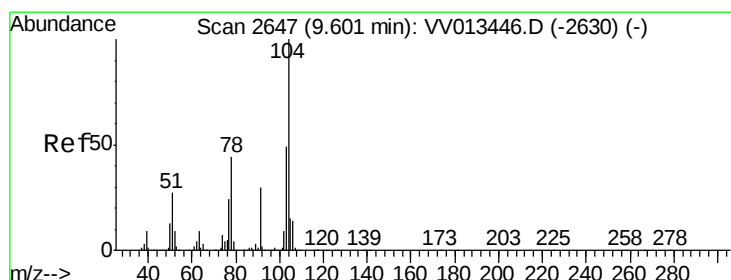
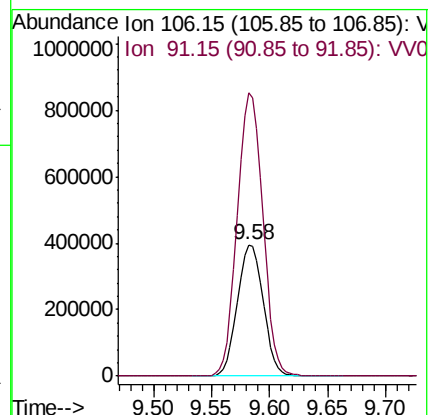
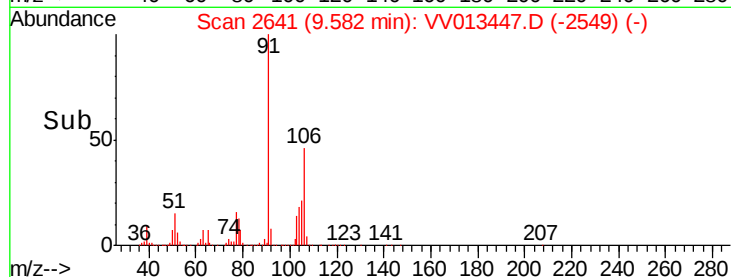
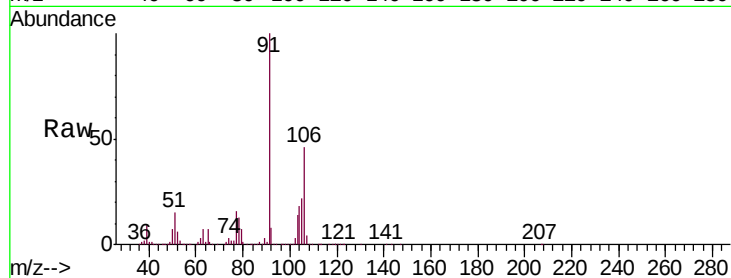
VSTD01036

Tgt Ion:106 Resp: 606840

Ion Ratio Lower Upper

106 100

91 215.7 148.3 275.5



#55

Styrene

Concen: 10.620 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. 0.00 min

Lab File: VV013447.D

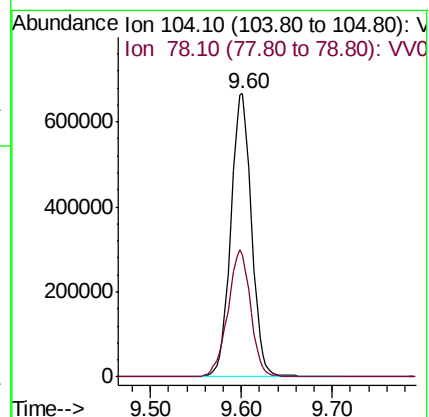
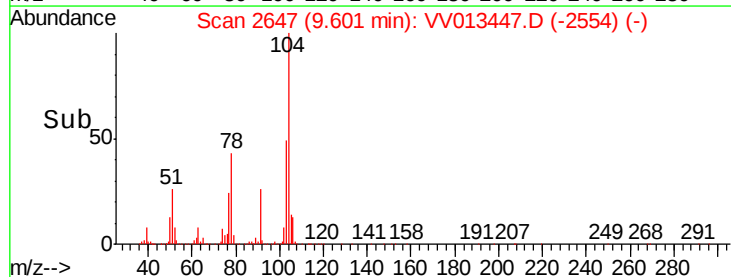
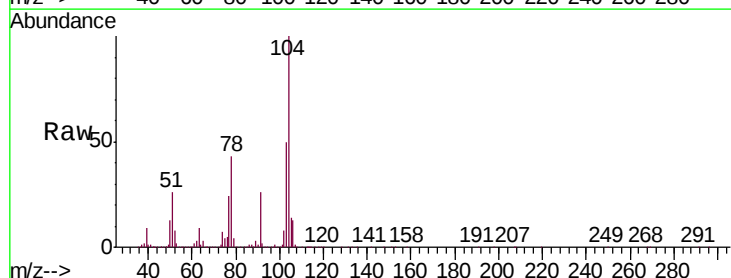
Acq: 31 Oct 2019 14:47

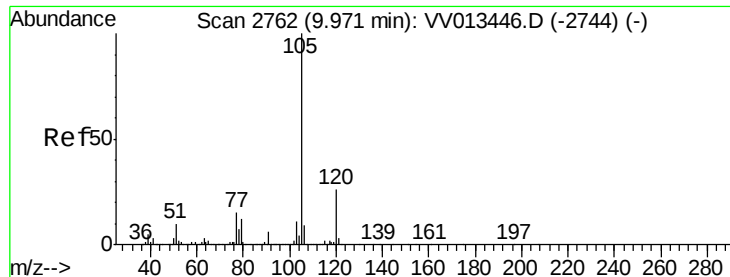
Tgt Ion:104 Resp: 1056185

Ion Ratio Lower Upper

104 100

78 43.1 30.6 56.8





#56

Isopropylbenzene

Concen: 10.481 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV013447.D

Acq: 31 Oct 2019 14:47

Instrument :

MSVOA_V

ClientSampleId :

VSTD01036

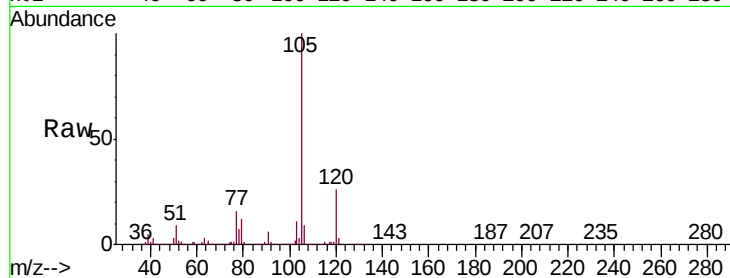
Tgt Ion:105 Resp: 1665047

Ion Ratio Lower Upper

105 100

120 26.2 21.1 31.7

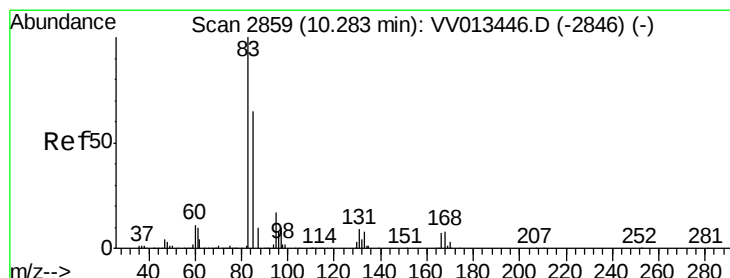
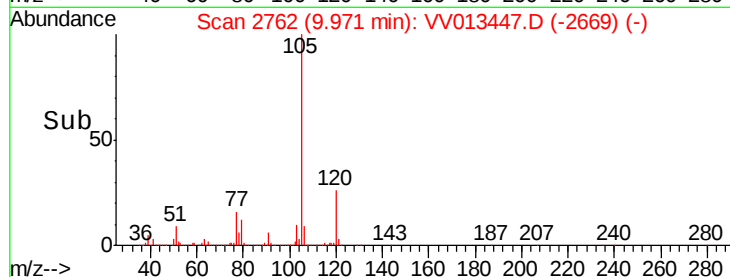
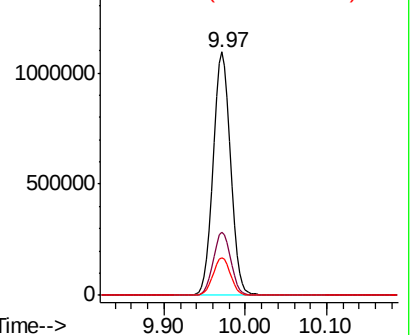
77 15.4 12.2 18.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 10.709 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VV013447.D

Acq: 31 Oct 2019 14:47

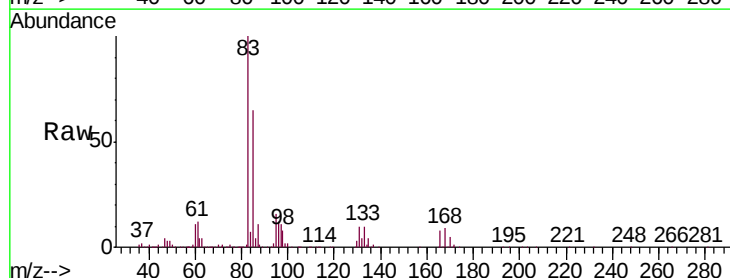
Tgt Ion: 83 Resp: 292865

Ion Ratio Lower Upper

83 100

85 65.2 45.8 85.0

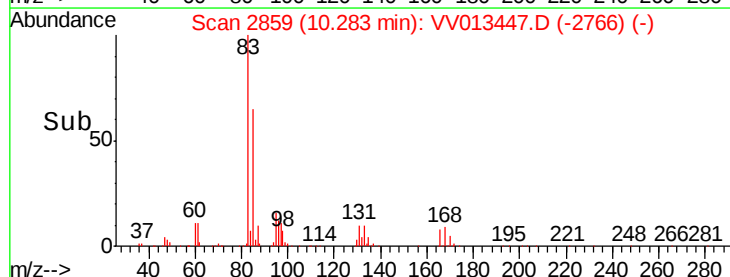
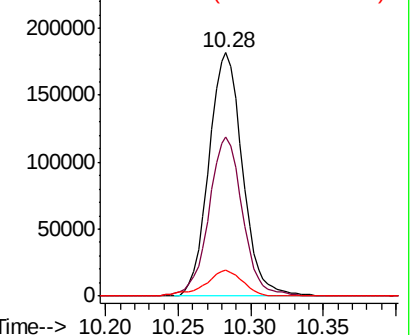
131 10.5 7.6 11.4

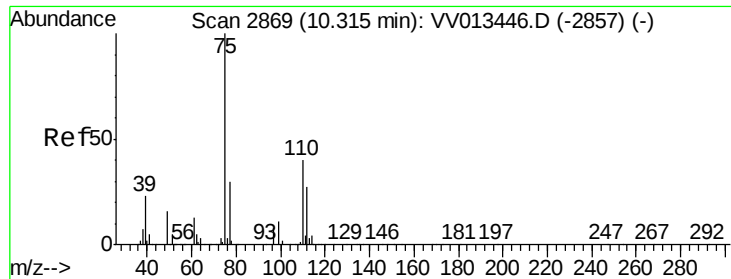


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 10.116 ug/L

RT: 10.32 min Scan# 2869

Delta R.T. 0.00 min

Lab File: VV013447.D

Acq: 31 Oct 2019 14:47

Instrument :

MSVOA_V

ClientSampleId :

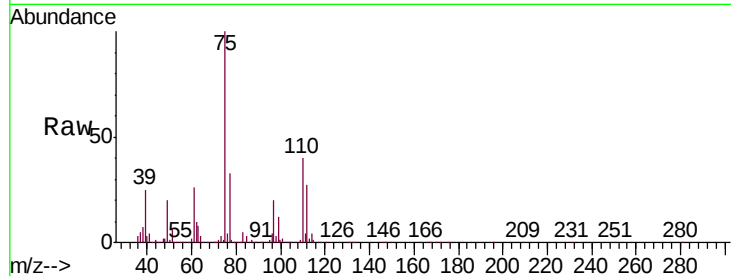
VSTD01036

Tgt Ion: 75 Resp: 225412

Ion Ratio Lower Upper

75 100

77 32.1 24.4 36.6



Abundance Ion 75.00 (74.70 to 75.70): VV013447.D (-2857) (-)

Ion 77.00 (76.70 to 77.70): VV013447.D (-2857) (-)

10.32

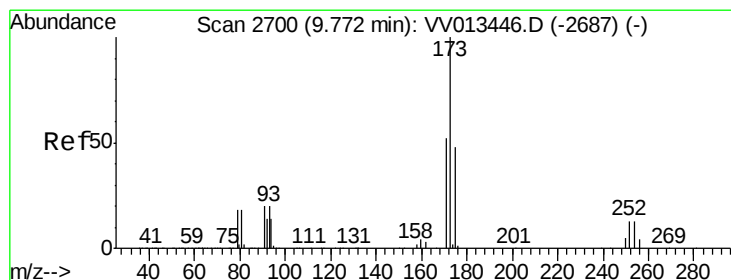
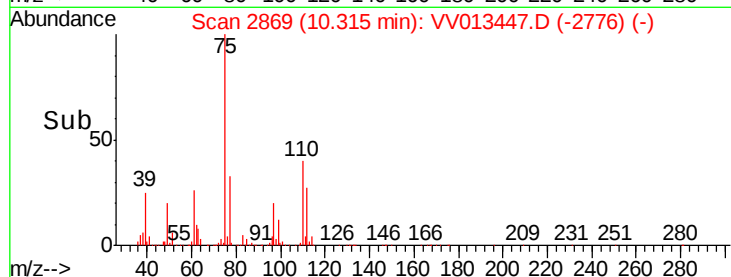
150000

100000

50000

0

Time--> 10.20 10.30 10.40



#61

Bromoform

Concen: 9.886 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. 0.00 min

Lab File: VV013447.D

Acq: 31 Oct 2019 14:47

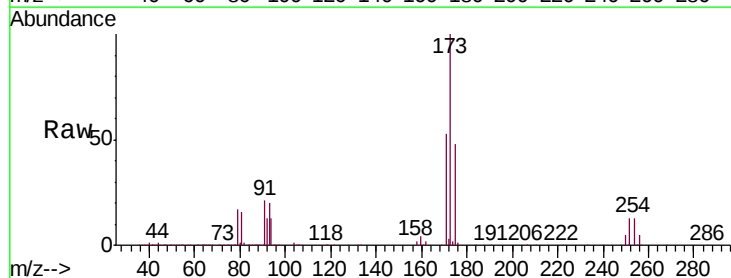
Tgt Ion: 173 Resp: 186303

Ion Ratio Lower Upper

173 100

175 48.6 38.6 58.0

254 12.7 10.1 15.1



Abundance Ion 172.90 (172.60 to 173.60): VV013447.D (-2687) (-)

Ion 174.90 (174.60 to 175.60): VV013447.D (-2687) (-)

Ion 253.75 (253.45 to 254.45): VV013447.D (-2687) (-)

9.77

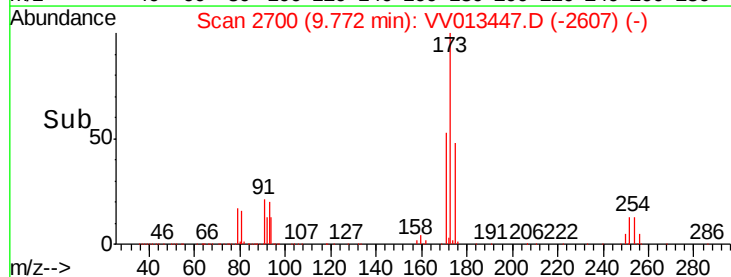
150000

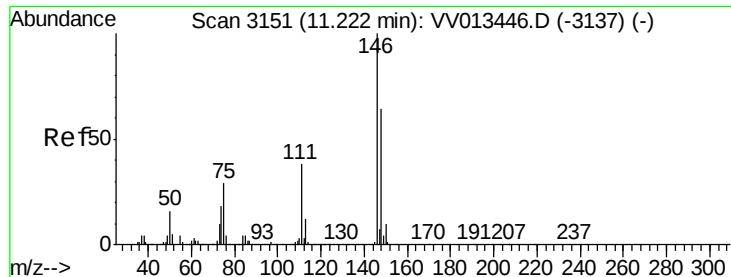
100000

50000

0

Time--> 9.70 9.75 9.80 9.85

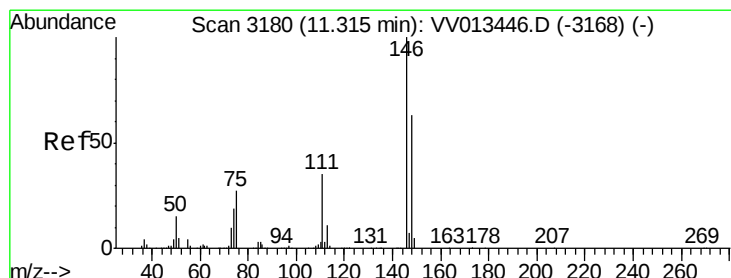
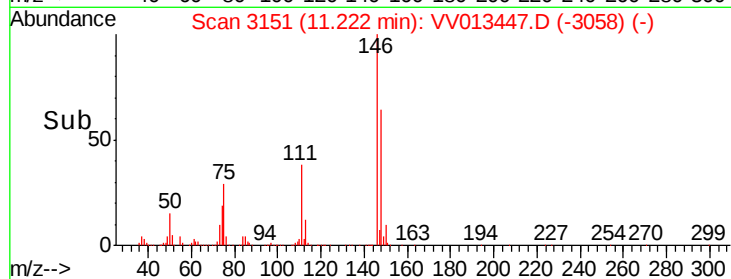
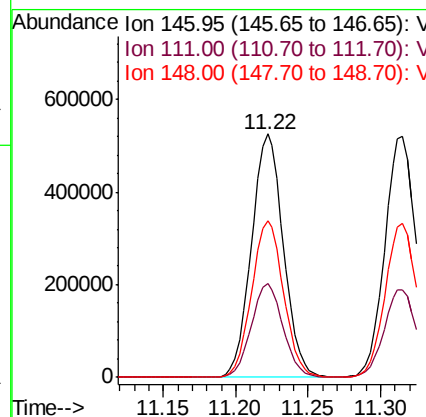
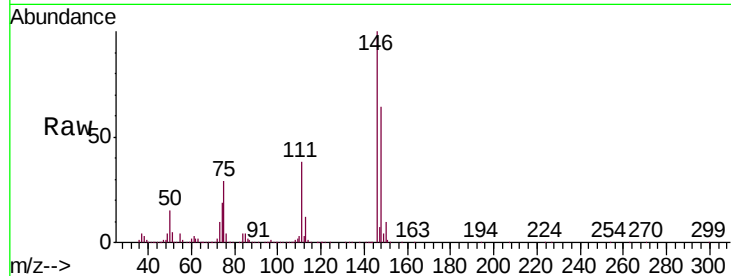




#62
 1,3-Dichlorobenzene
 Concen: 9.503 ug/L
 RT: 11.22 min Scan# 3151
 Delta R.T. 0.00 min
 Lab File: VV013447.D
 Acq: 31 Oct 2019 14:47

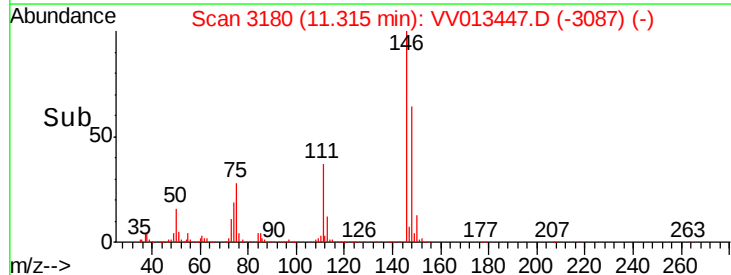
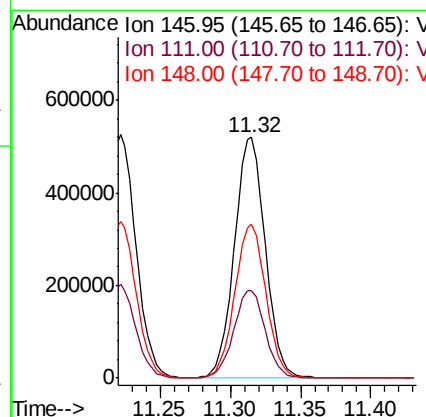
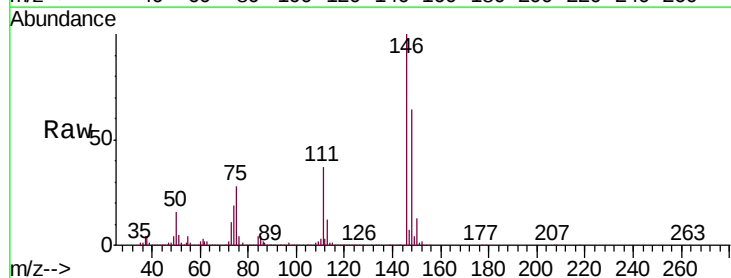
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD01036

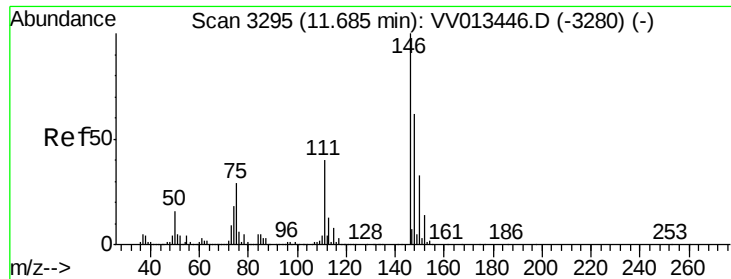
Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.4	26.2	48.8
148	64.5	44.9	83.5



#63
 1,4-Dichlorobenzene
 Concen: 9.356 ug/L
 RT: 11.32 min Scan# 3180
 Delta R.T. 0.00 min
 Lab File: VV013447.D
 Acq: 31 Oct 2019 14:47

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.5	24.7	45.9
148	63.8	44.2	82.0

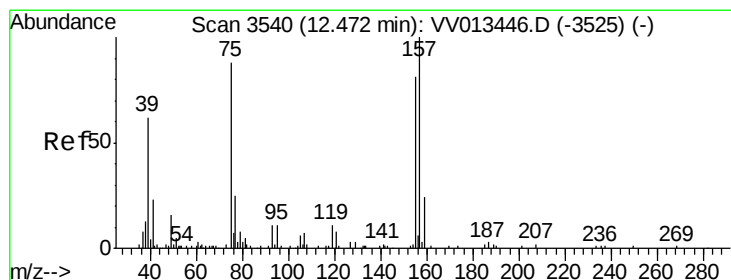
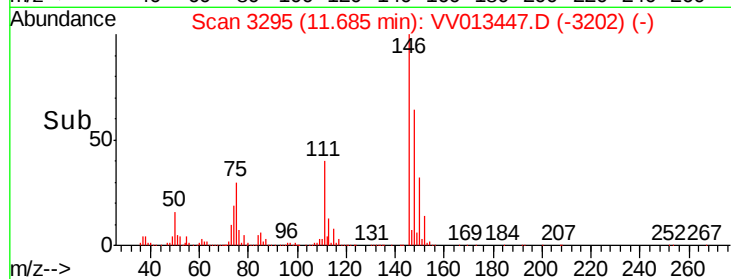
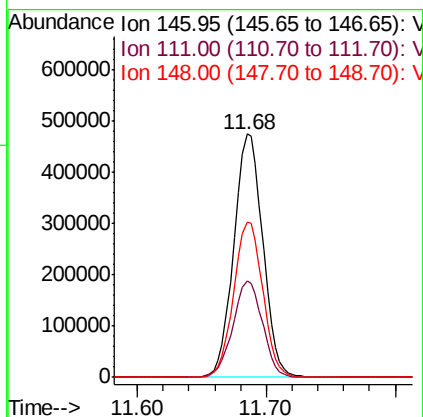
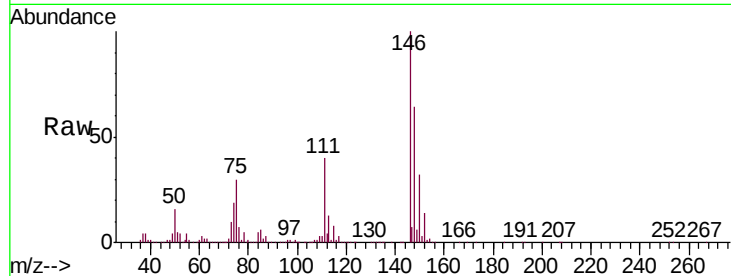




#65
 1,2-Dichlorobenzene
 Concen: 9.377 ug/L
 RT: 11.68 min Scan# 3295
 Delta R.T. 0.00 min
 Lab File: VV013447.D
 Acq: 31 Oct 2019 14:47

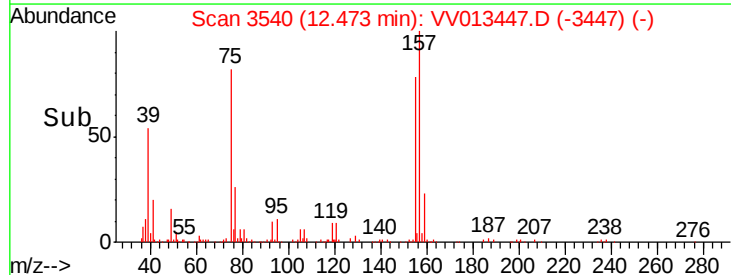
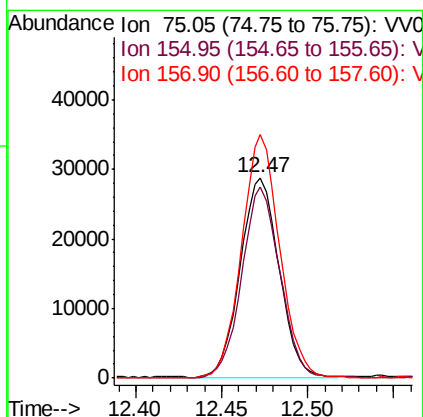
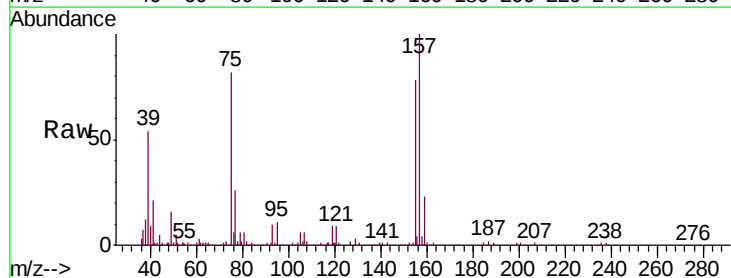
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD01036

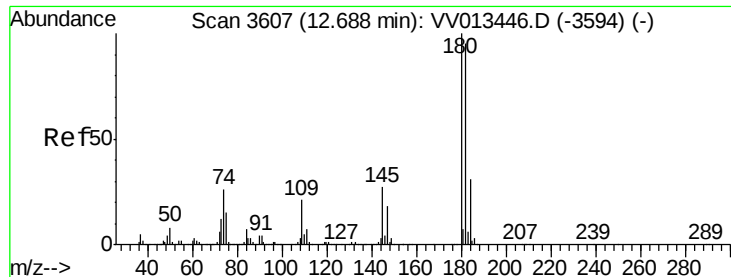
Tgt Ion: 146 Resp: 738227
 Ion Ratio Lower Upper
 146 100
 111 39.6 31.8 47.6
 148 63.9 49.5 74.3



#66
 1,2-Dibromo-3-chloropropane
 Concen: 11.073 ug/L
 RT: 12.47 min Scan# 3540
 Delta R.T. 0.00 min
 Lab File: VV013447.D
 Acq: 31 Oct 2019 14:47

Tgt Ion: 75 Resp: 45413
 Ion Ratio Lower Upper
 75 100
 155 95.3 73.5 110.3
 157 121.6 90.4 135.6

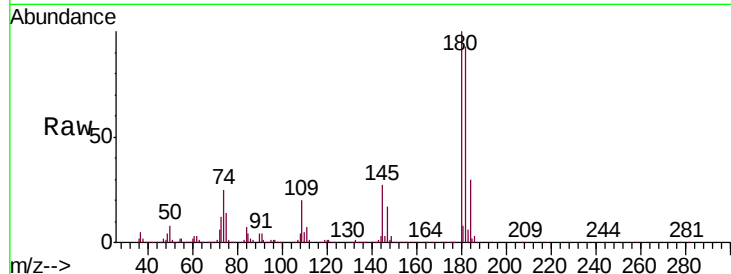




#67
 1,3,5-Trichlorobenzene
 Concen: 9.682 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VV013447.D
 Acq: 31 Oct 2019 14:47

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD01036

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.2	76.1	114.1
184	30.3	24.5	36.7
145	26.9	21.4	32.2



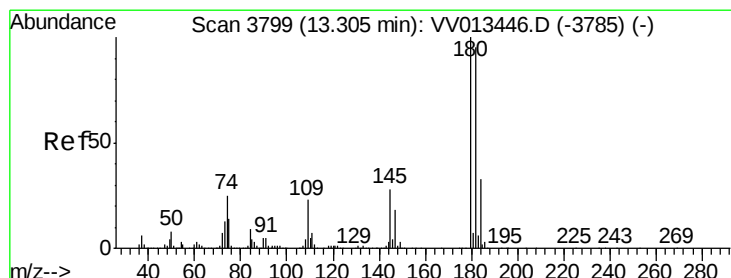
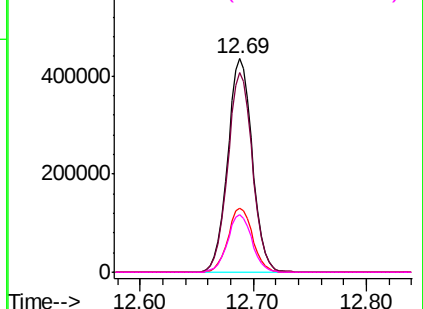
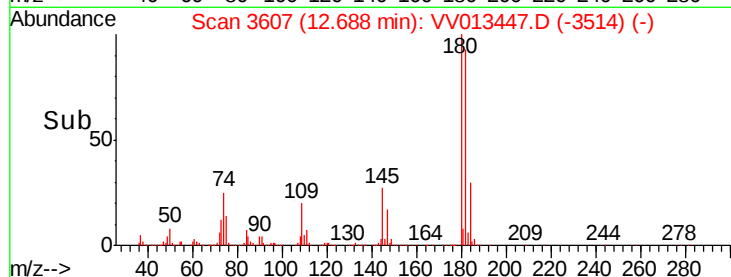
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

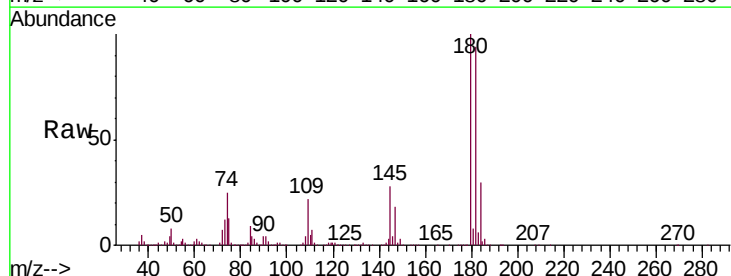
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 10.288 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. 0.00 min
 Lab File: VV013447.D
 Acq: 31 Oct 2019 14:47

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.1	114.1
145	28.1	22.1	33.1

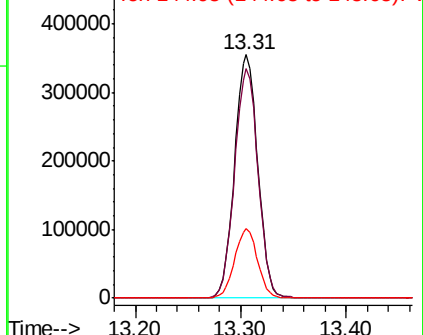
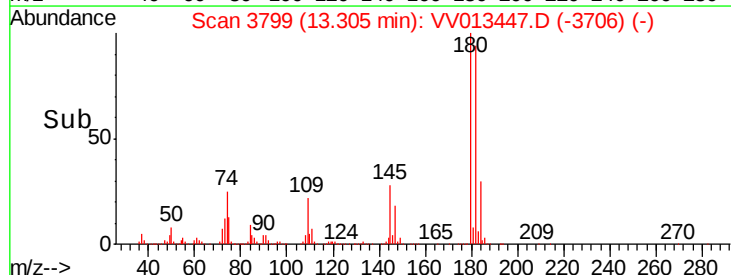


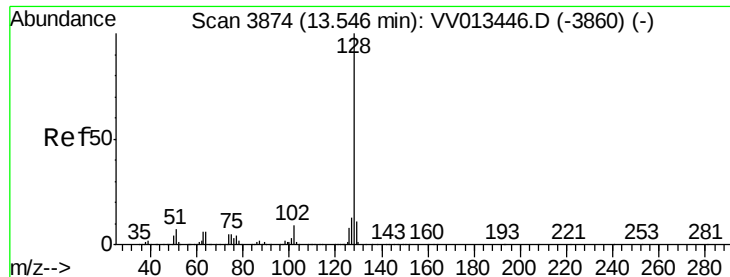
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 11.971 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. 0.00 min

Lab File: VV013447.D

Acq: 31 Oct 2019 14:47

Instrument :

MSVOA_V

ClientSampleId :

VSTD01036

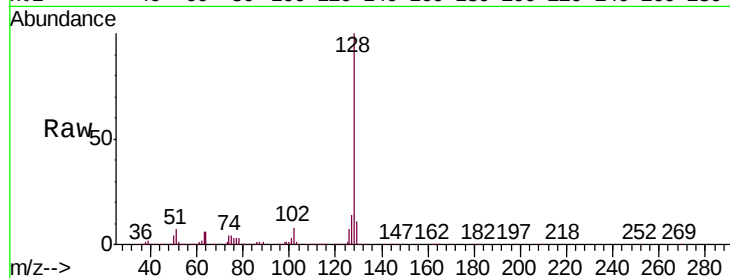
Tgt Ion:128 Resp: 882285

Ion Ratio Lower Upper

128 100

129 10.7 8.4 12.6

127 13.4 10.7 16.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

600000

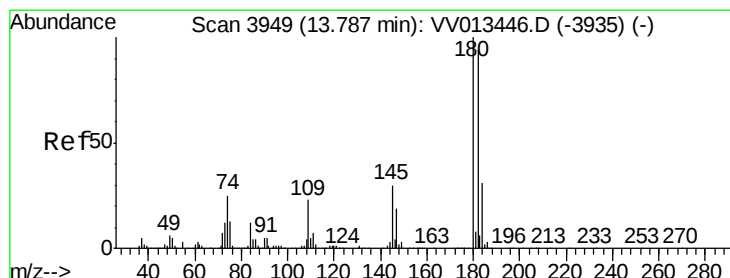
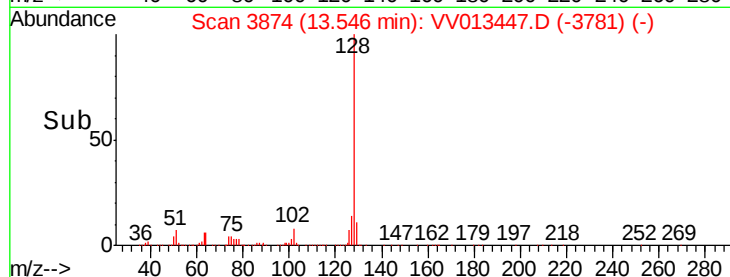
400000

200000

0

13.55

Time-->



#70

1,2,3-Trichlorobenzene

Concen: 10.692 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. 0.00 min

Lab File: VV013447.D

Acq: 31 Oct 2019 14:47

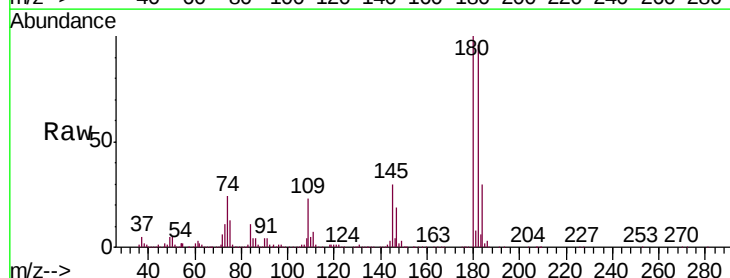
Tgt Ion:180 Resp: 515598

Ion Ratio Lower Upper

180 100

182 95.7 77.4 116.2

145 29.0 24.1 36.1



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

400000

300000

200000

100000

0

13.79

Time-->

