

Data File : VW009662.D
Acq On : 03 Apr 2019 13:48
Operator : SY/VA
Sample : VSTD05013
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD05013

Quant Time: Apr 03 14:22:39 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM040319S.M
Quant Title : VOC Analysis
QLast Update : Wed Apr 03 14:19:43 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	520515	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	505438	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	262919	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	317351	51.02	ug/L	0.00
7) Chloroethane-d5	2.89	69	298540	41.02	ug/L	0.00
10) 1,1-Dichloroethene-d2	4.03	63	694350	51.65	ug/L	0.01
20) 2-Butanone-d5	7.07	46	236501	91.94	ug/L	0.00
24) Chloroform-d	7.65	84	680785	47.93	ug/L	0.00
26) 1,2-Dichloroethane-d4	8.31	65	421258	49.23	ug/L	0.00
29) Benzene-d6	8.27	84	1283901	46.06	ug/L	0.00
33) 1,2-Dichloropropane-d6	9.27	67	394927	47.17	ug/L	0.00
37) Toluene-d8	10.32	98	1222912	47.45	ug/L	0.00
38) trans-1,3-Dichloropropene-	10.58	79	200082	47.59	ug/L	0.00
39) 2-Hexanone-d5	10.93	63	185838	91.65	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	12.69	84	386793	46.91	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	13.86	152	443712	44.01	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	352466	51.403 ug/L	96
3) Chloromethane	2.22	50	363790	50.006 ug/L	97
5) Vinyl chloride	2.37	62	439565	58.702 ug/L	97
6) Bromomethane	2.78	94	304623	48.558 ug/L	100
8) Chloroethane	2.92	64	297445	48.012 ug/L	89
9) Trichlorofluoromethane	3.26	101	296118	50.063 ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	353584	51.763 ug/L	93
12) 1,1-Dichloroethene	4.03	96	335111	52.282 ug/L	92
13) Acetone	4.12	43	222380	105.418 ug/L	96
14) Carbon disulfide	4.38	76	1047881	60.745 ug/L	98
15) Methyl Acetate	4.67	43	215457	51.990 ug/L	99
16) Methylene chloride	4.92	84	361056	47.567 ug/L	94
17) Methyl tert-butyl Ether	5.42	73	519738	57.307 ug/L	98
18) trans-1,2-Dichloroethene	5.42	96	356175	52.853 ug/L	93
19) 1,1-Dichloroethane	6.21	63	682936	55.580 ug/L	100
21) 2-Butanone	7.17	43	322082	110.577 ug/L	96
22) cis-1,2-Dichloroethene	7.17	96	399482	54.722 ug/L	97
23) Bromochloromethane	7.51	128	180234	51.475 ug/L	93
25) Chloroform	7.67	83	707098	54.950 ug/L	99
27) 1,2-Dichloroethane	8.40	62	547948	57.113 ug/L	98
30) Cyclohexane	7.95	56	639975	55.752 ug/L	98
31) 1,1,1-Trichloroethane	7.87	97	553026	54.783 ug/L	99
32) Carbon tetrachloride	8.06	117	567485	55.717 ug/L	97
34) Benzene	8.32	78	1501146	54.262 ug/L	100
35) Trichloroethene	9.09	95	393442	53.372 ug/L	96
36) Methylcyclohexane	9.34	83	683743	53.612 ug/L	98
40) 1,2-Dichloropropane	9.37	63	383582	54.033 ug/L	97
41) Bromodichloromethane	9.64	83	540864	54.987 ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	641426	55.475 ug/L	98
43) 4-Methyl-2-pentanone	10.21	43	670557	104.240 ug/L	99

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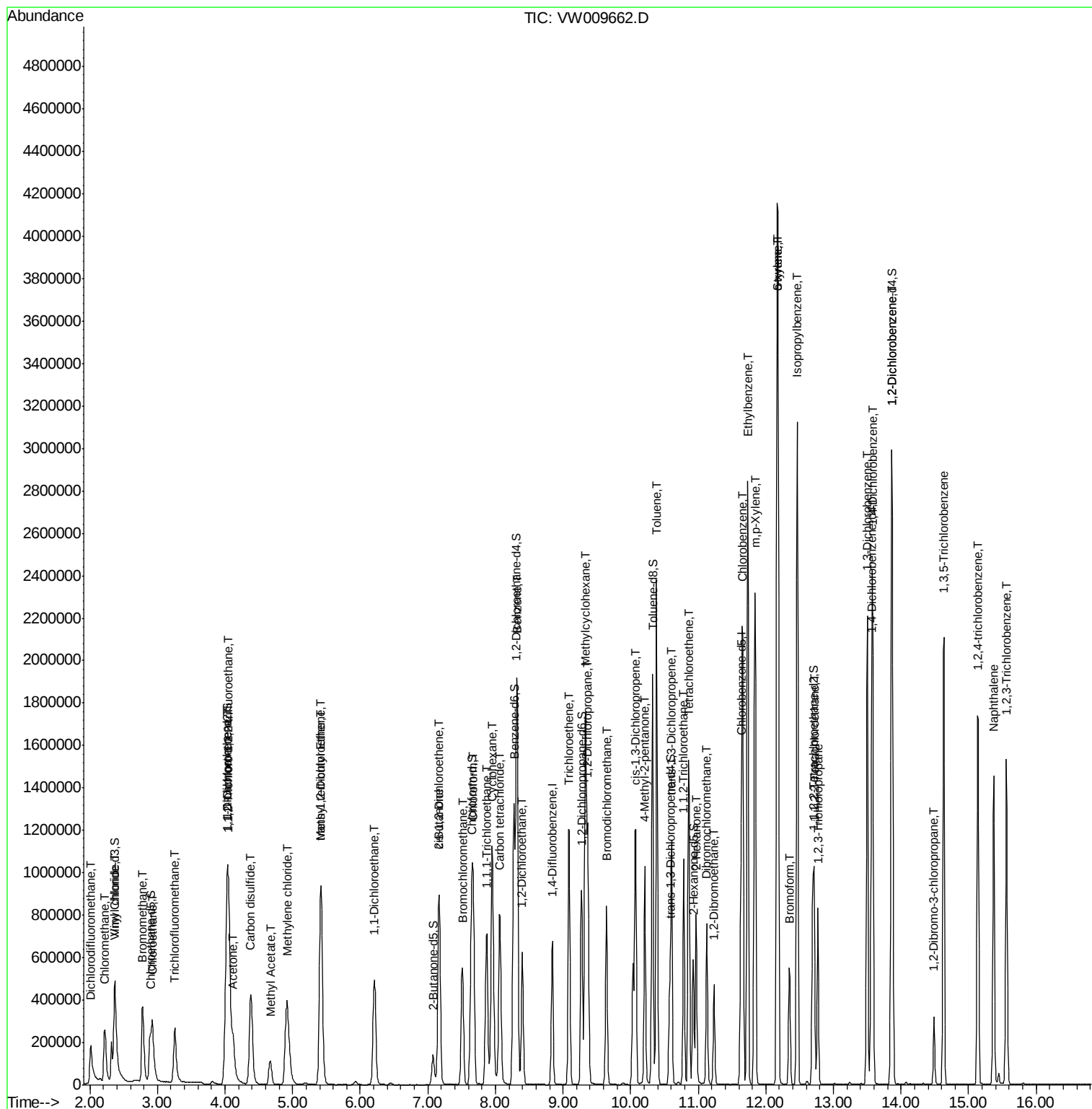
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	10.38	91	1647626	54.471	ug/L	98
45) trans-1,3-Dichloropropene	10.60	75	560294	55.706	ug/L	100
46) 1,1,2-Trichloroethane	10.79	97	296481	52.349	ug/L	99
47) Tetrachloroethene	10.86	164	310199	49.802	ug/L	97
49) 2-Hexanone	10.97	43	503469	111.124	ug/L	98
50) Dibromochloromethane	11.13	129	374447	53.558	ug/L	93
51) 1,2-Dibromoethane	11.23	107	299546	52.172	ug/L	97
52) Chlorobenzene	11.66	112	1029264	53.054	ug/L	96
53) Ethylbenzene	11.73	91	1915723	56.334	ug/L	99
54) m,p-Xylene	11.84	106	717344	55.523	ug/L	96
55) o-xylene	12.16	106	698193	55.394	ug/L	100
56) Styrene	12.18	104	1228906	57.145	ug/L	95
57) Isopropylbenzene	12.46	105	1919212	56.842	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.71	83	410668	53.749	ug/L	99
59) 1,2,3-Trichloropropane	12.77	75	308952	54.487	ug/L	99
62) Bromoform	12.35	173	236458	53.228	ug/L	98
63) 1,3-Dichlorobenzene	13.50	146	824390	52.611	ug/L	98
64) 1,4-Dichlorobenzene	13.58	146	835592	51.578	ug/L	98
65) 1,2-Dichlorobenzene	13.87	146	774983	51.861	ug/L	98
66) 1,2-Dibromo-3-chloropropan	14.49	75	76636	52.327	ug/L	87
67) 1,3,5-Trichlorobenzene	14.63	180	607866	49.735	ug/L	99
68) 1,2,4-trichlorobenzene	15.14	180	517706	50.427	ug/L	100
69) Naphthalene	15.37	128	1157078	54.362	ug/L	99
70) 1,2,3-Trichlorobenzene	15.56	180	483382	50.270	ug/L	99

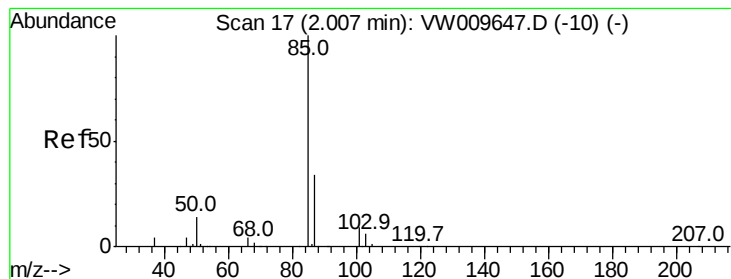
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 51.403 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

Lab File: VW009662.D

Acq: 03 Apr 2019 13:48

Instrument :

MSVOA_W

ClientSampleId :

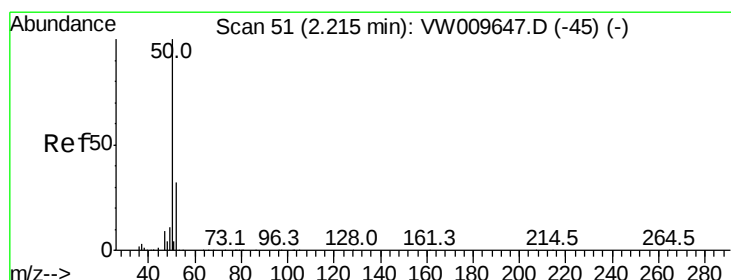
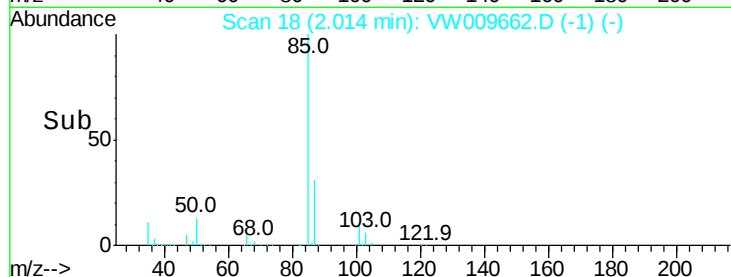
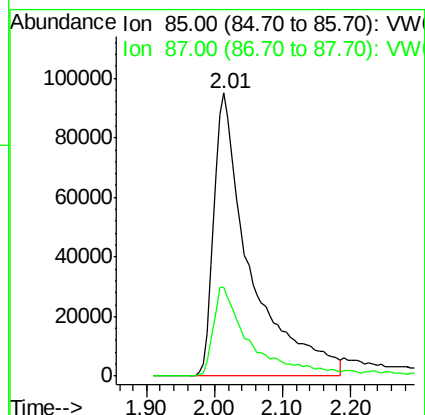
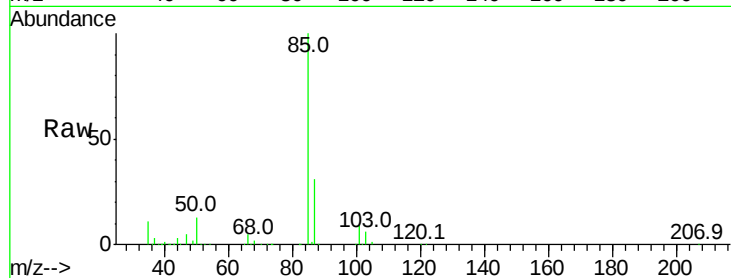
VSTD05013

Tgt Ion: 85 Resp: 352466

Ion Ratio Lower Upper

85 100

87 25.7 19.5 36.3



#3

Chloromethane

Concen: 50.006 ug/L

RT: 2.22 min Scan# 52

Delta R.T. 0.01 min

Lab File: VW009662.D

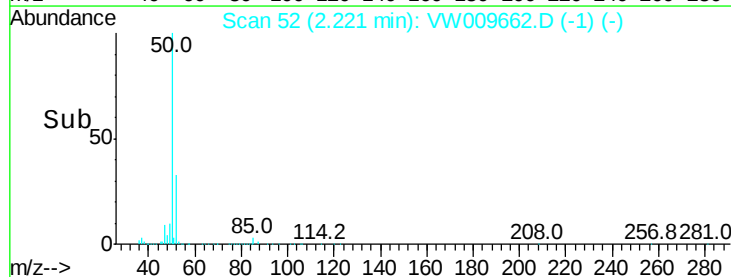
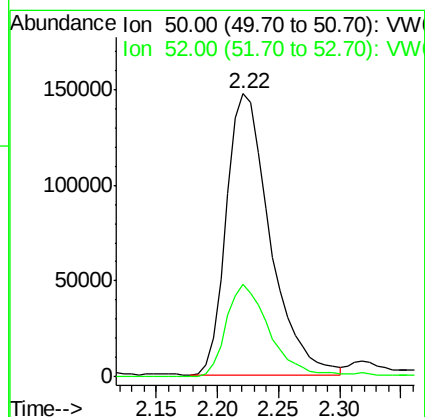
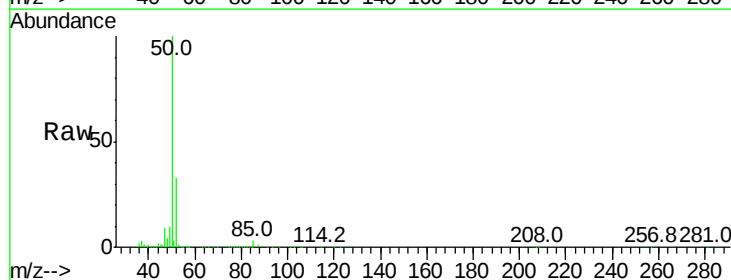
Acq: 03 Apr 2019 13:48

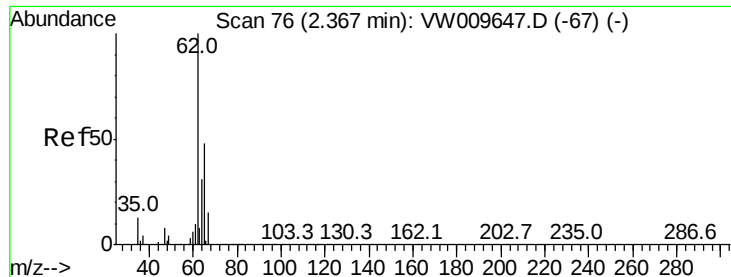
Tgt Ion: 50 Resp: 363790

Ion Ratio Lower Upper

50 100

52 32.6 21.6 40.2





#5

Vinyl chloride

Concen: 58.702 ug/L

RT: 2.37 min Scan# 77

Delta R.T. 0.01 min

Lab File: VW009662.D

Acq: 03 Apr 2019 13:48

Instrument :

MSVOA_W

ClientSampleId :

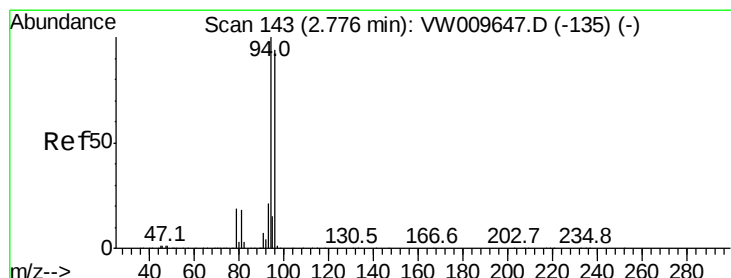
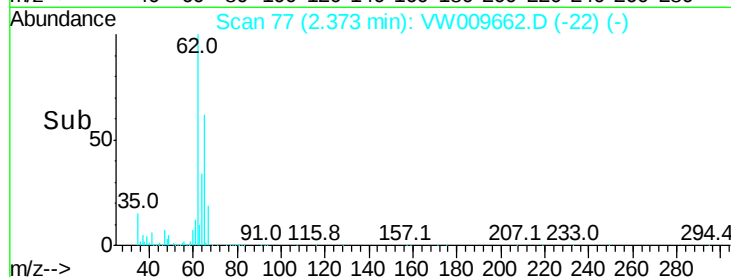
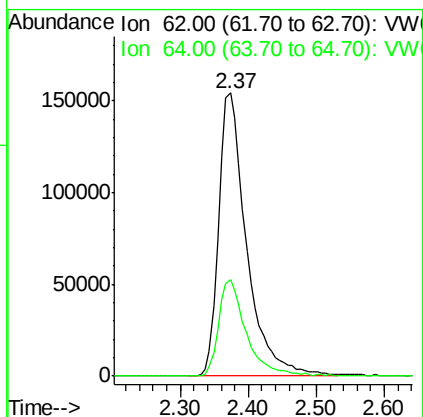
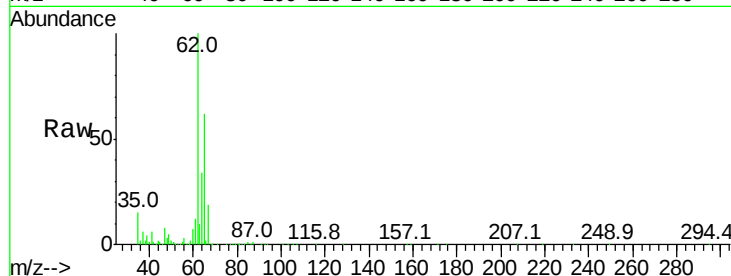
VSTD05013

Tgt Ion: 62 Resp: 439565

Ion Ratio Lower Upper

62 100

64 34.3 23.0 42.6



#6

Bromomethane

Concen: 48.558 ug/L

RT: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW009662.D

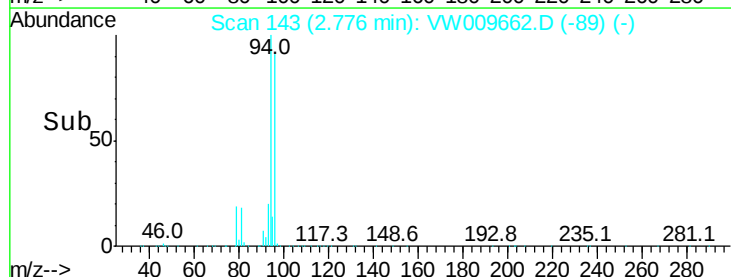
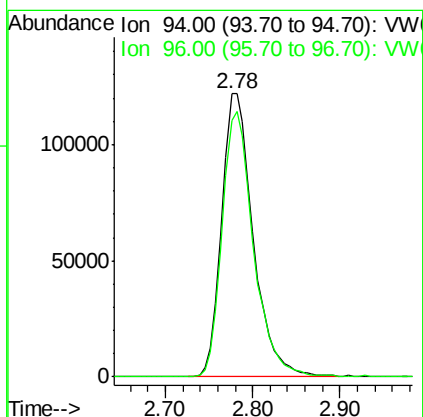
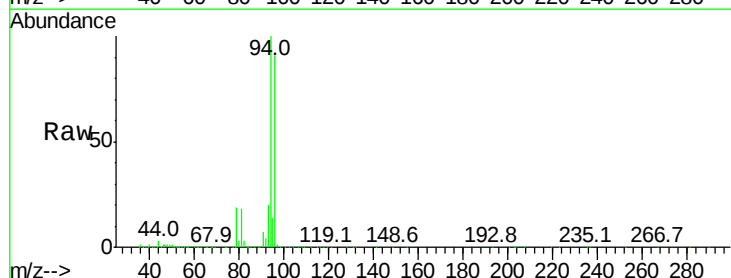
Acq: 03 Apr 2019 13:48

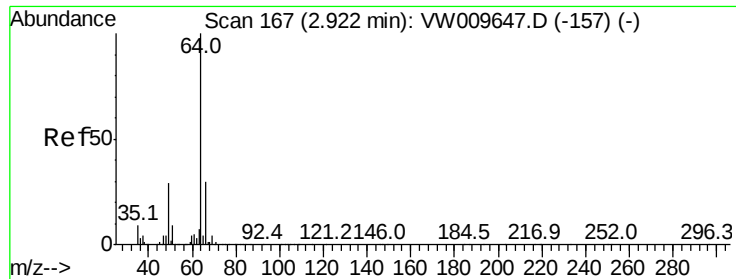
Tgt Ion: 94 Resp: 304623

Ion Ratio Lower Upper

94 100

96 93.7 9.4 178.4





#8

Chloroethane

Concen: 48.012 ug/L

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW009662.D

Acq: 03 Apr 2019 13:48

Instrument :

MSVOA_W

ClientSampleId :

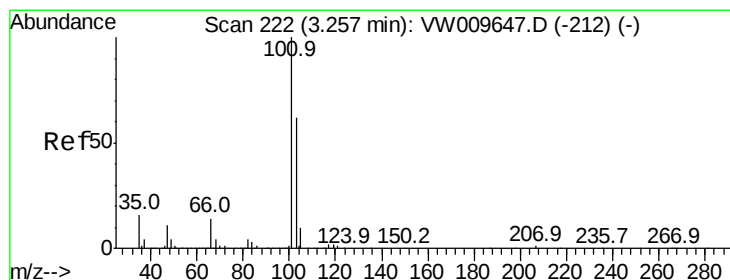
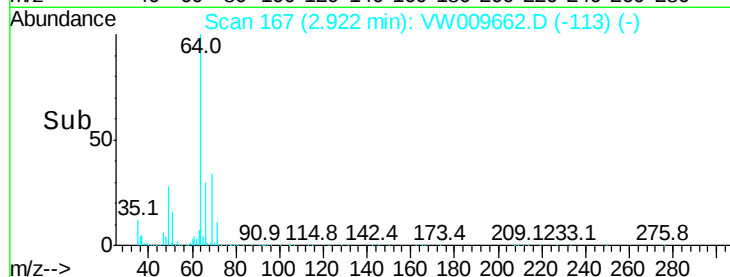
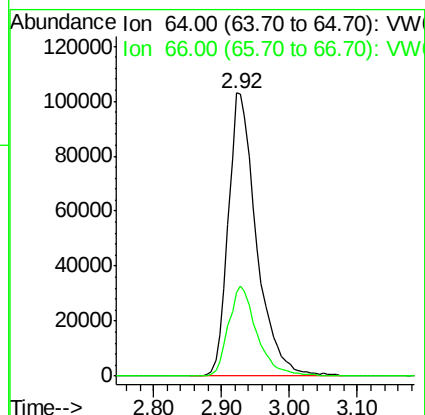
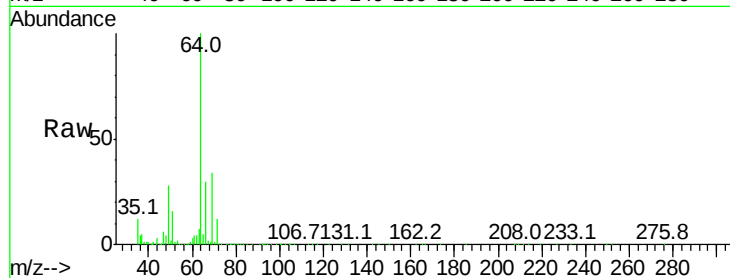
VSTD05013

Tgt Ion: 64 Resp: 297445

Ion Ratio Lower Upper

64 100

66 29.7 25.1 46.7



#9

Trichlorofluoromethane

Concen: 50.063 ug/L

RT: 3.26 min Scan# 222

Delta R.T. 0.00 min

Lab File: VW009662.D

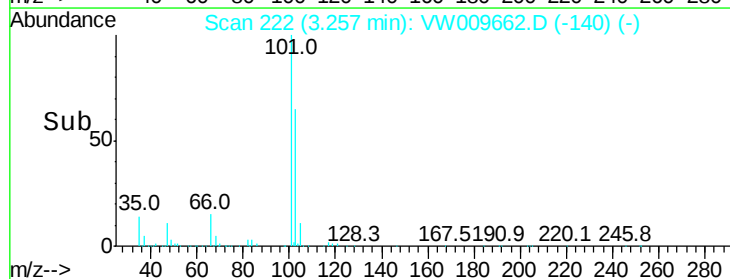
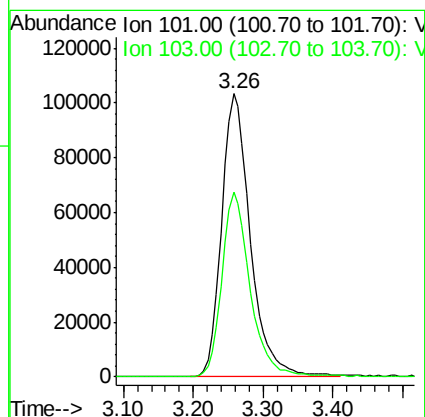
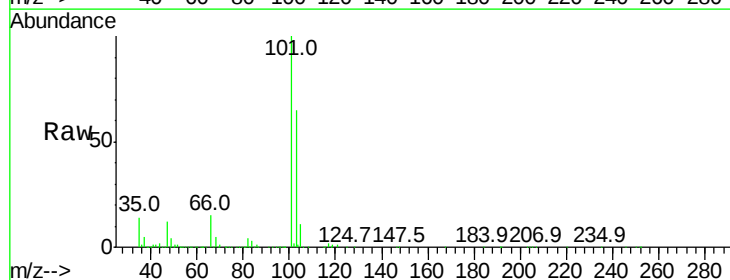
Acq: 03 Apr 2019 13:48

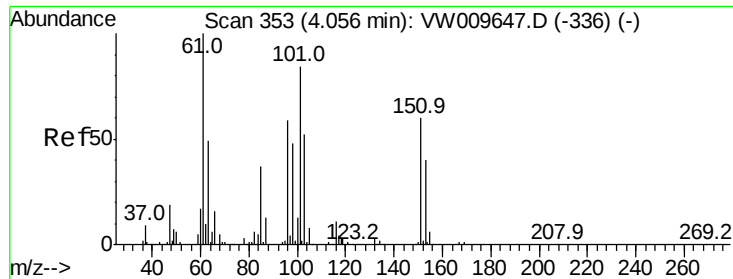
Tgt Ion: 101 Resp: 296118

Ion Ratio Lower Upper

101 100

103 63.2 45.0 83.6





#11

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

Concen: 51.763 ug/L

RT: 4.06 min Scan# 353

Delta R.T. 0.00 min

Lab File: VW009662.D

Acq: 03 Apr 2019 13:48

Instrument :

MSVOA_W

ClientSampled :

VSTD05013

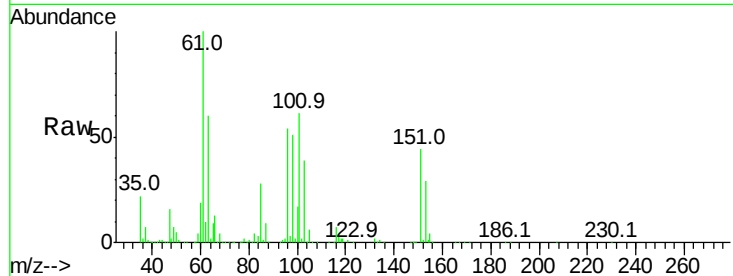
Tgt Ion:101 Resp: 353584

Ion Ratio Lower Upper

101 100

85 44.0 32.6 48.8

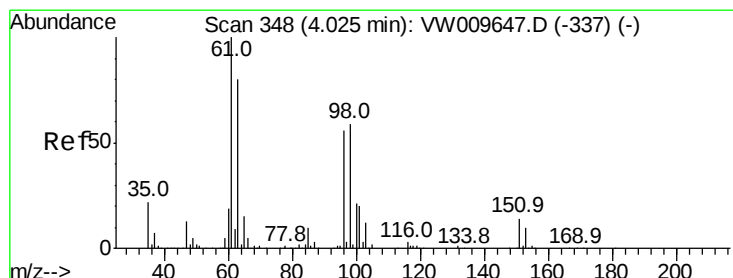
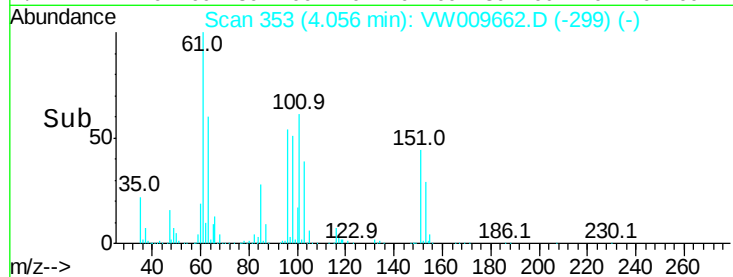
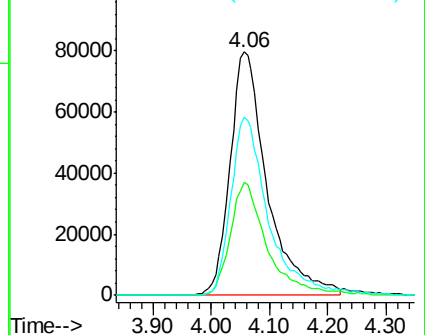
151 72.0 63.3 94.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 52.282 ug/L

RT: 4.03 min Scan# 349

Delta R.T. 0.01 min

Lab File: VW009662.D

Acq: 03 Apr 2019 13:48

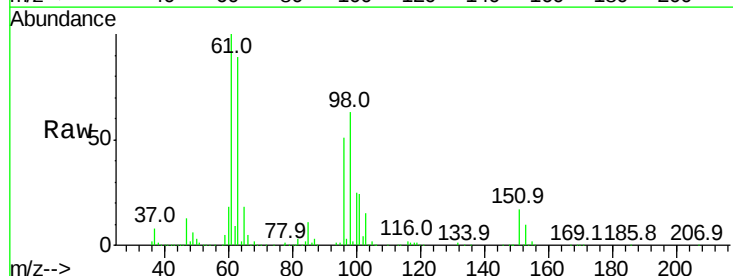
Tgt Ion: 96 Resp: 335111

Ion Ratio Lower Upper

96 100

61 197.6 129.4 240.2

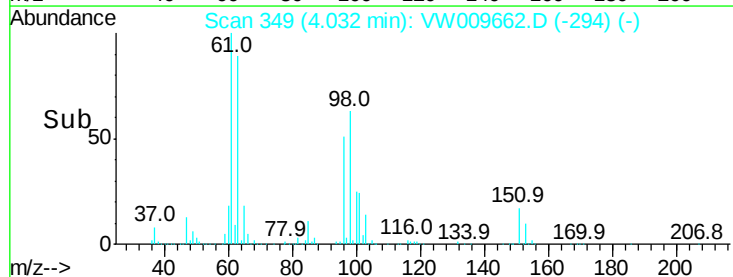
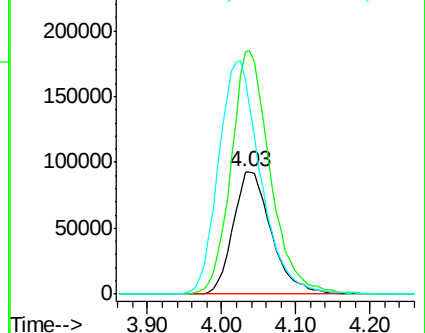
63 175.2 116.8 217.0

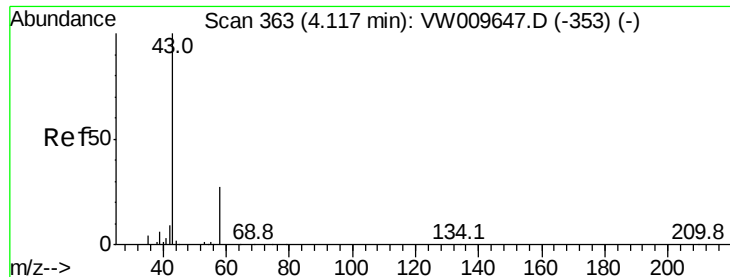


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 105.418 ug/L

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

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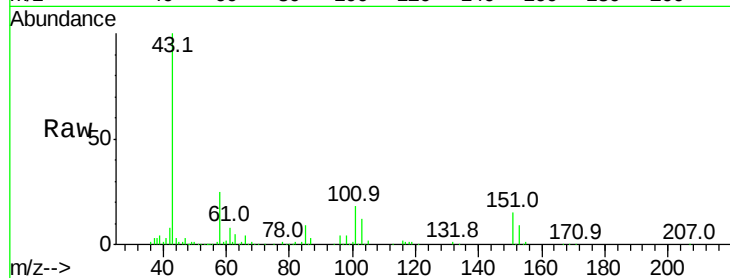
VSTD05013

Tgt Ion: 43 Resp: 222380

Ion Ratio Lower Upper

43 100

58 26.2 0.0 56.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

80000

60000

40000

20000

0

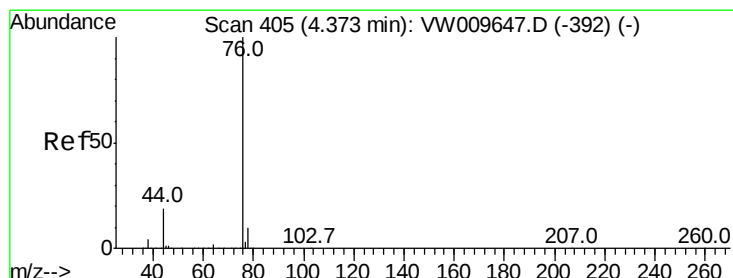
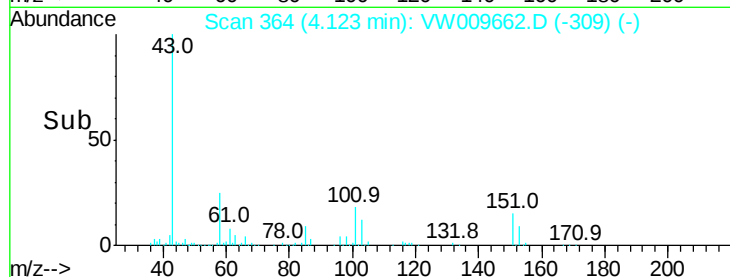
4.12

4.00

4.10

4.20

Time-->



#14

Carbon disulfide

Concen: 60.745 ug/L

RT: 4.38 min Scan# 406

Delta R.T. 0.01 min

Lab File: VW009662.D

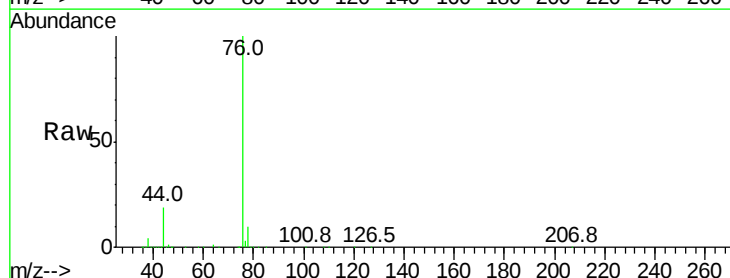
Acq: 03 Apr 2019 13:48

Tgt Ion: 76 Resp: 1047881

Ion Ratio Lower Upper

76 100

78 9.7 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

300000

200000

100000

0

4.38

4.20

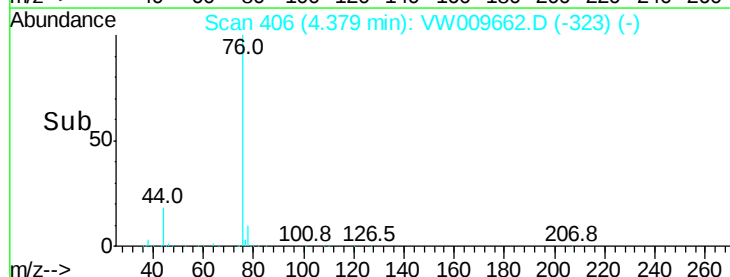
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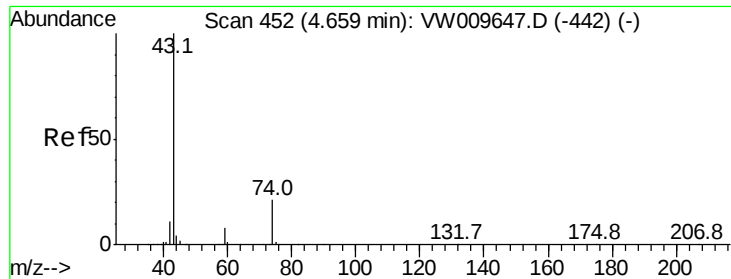
4.40

4.50

4.60

Time-->

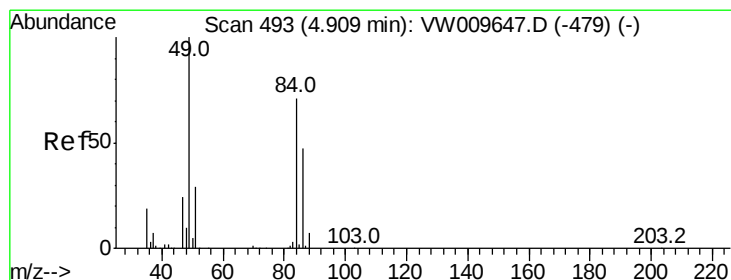
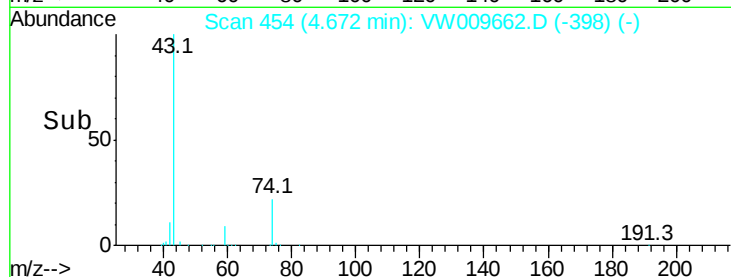
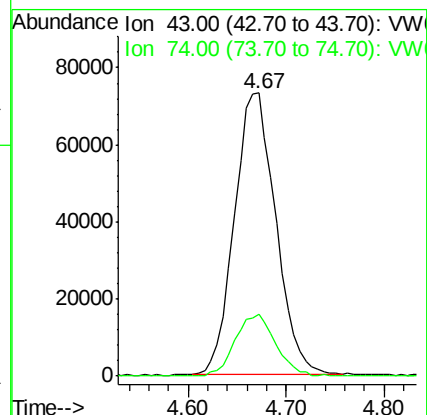
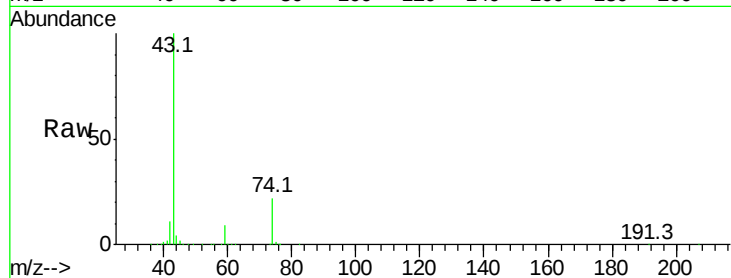




#15
Methyl Acetate
Concen: 51.990 ug/L
RT: 4.67 min Scan# 454
Delta R.T. 0.01 min
Lab File: VW009662.D
Acq: 03 Apr 2019 13:48

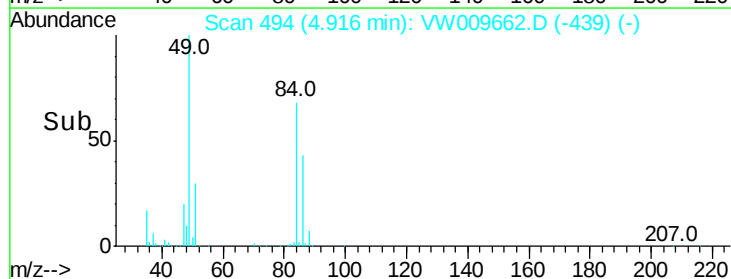
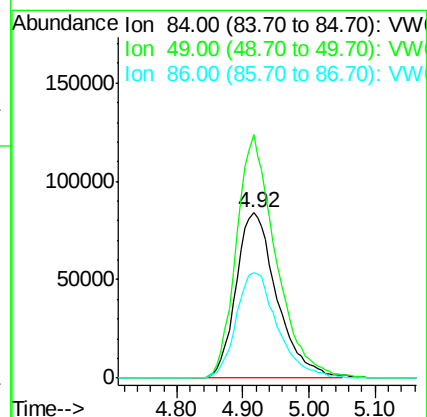
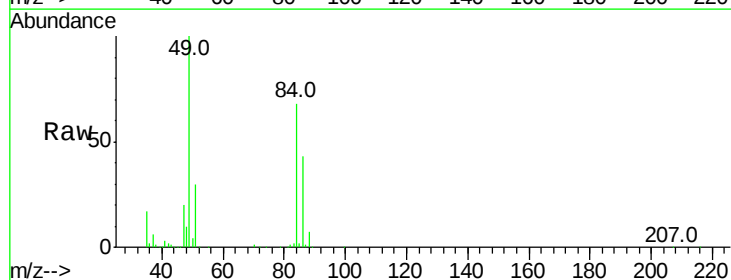
Instrument :
MSVOA_W
ClientSampleId :
VSTD05013

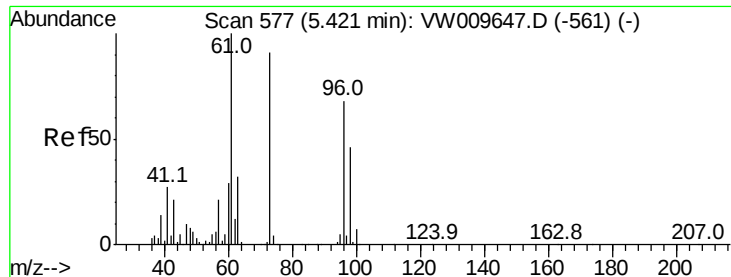
Tgt Ion: 43 Resp: 215457
Ion Ratio Lower Upper
43 100
74 21.2 16.7 25.1



#16
Methylene chloride
Concen: 47.567 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW009662.D
Acq: 03 Apr 2019 13:48

Tgt Ion: 84 Resp: 361056
Ion Ratio Lower Upper
84 100
49 147.3 96.0 178.2
86 63.6 44.4 82.5

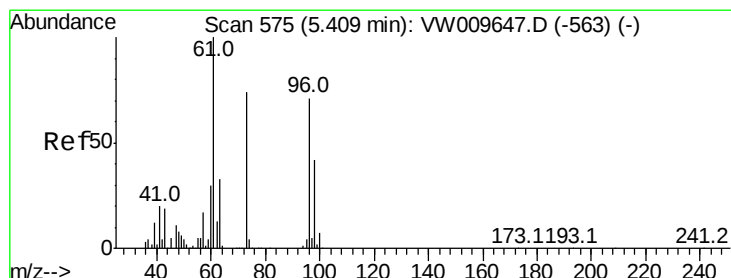
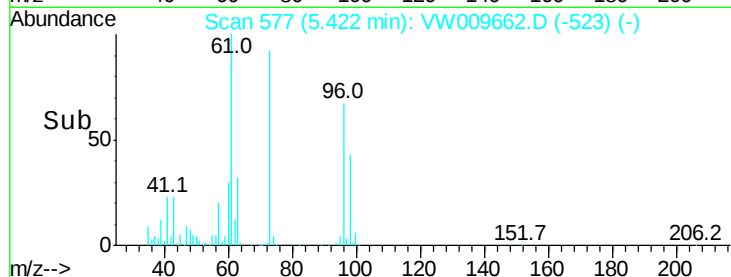
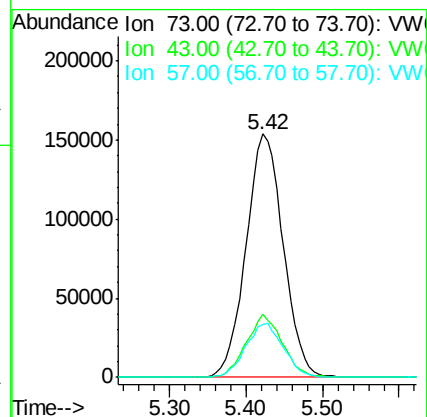
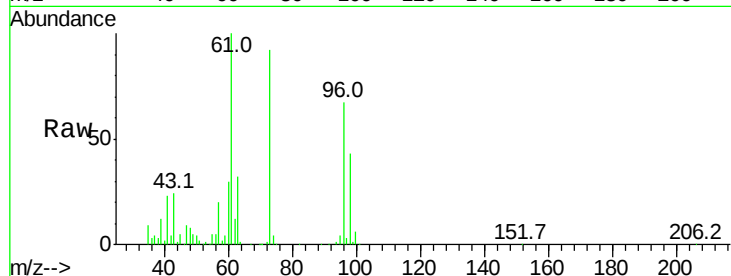




#17
Methyl tert-butyl Ether
Concen: 57.307 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW009662.D
Acq: 03 Apr 2019 13:48

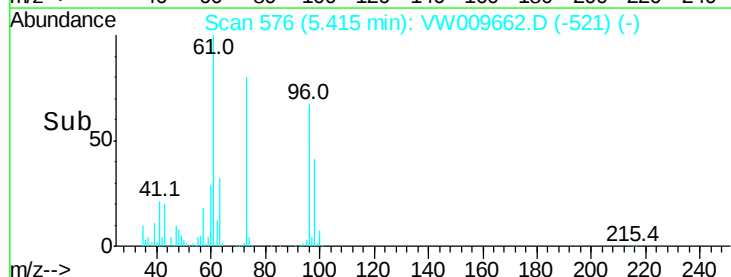
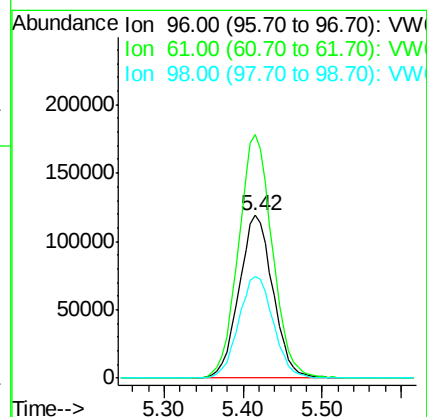
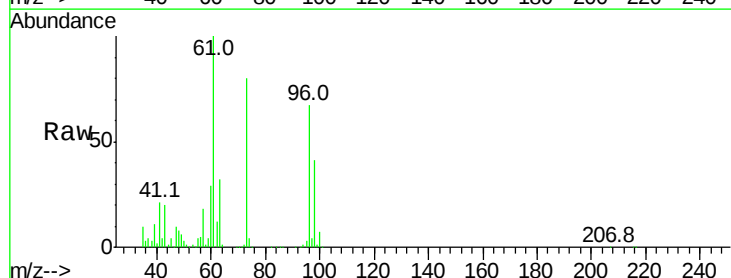
Instrument :
MSVOA_W
ClientSampleId :
VSTD05013

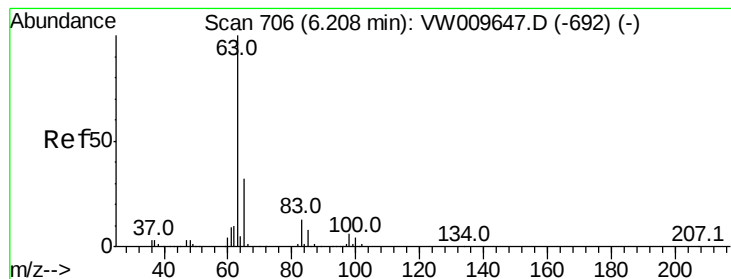
Tgt Ion: 73 Resp: 519738
Ion Ratio Lower Upper
73 100
43 25.0 18.2 27.4
57 22.4 17.8 26.8



#18
trans-1,2-Dichloroethene
Concen: 52.853 ug/L
RT: 5.42 min Scan# 576
Delta R.T. 0.01 min
Lab File: VW009662.D
Acq: 03 Apr 2019 13:48

Tgt Ion: 96 Resp: 356175
Ion Ratio Lower Upper
96 100
61 149.6 96.7 179.5
98 62.1 43.8 81.4





#19

1,1-Dichloroethane

Concen: 55.580 ug/L

RT: 6.21 min Scan# 706

Delta R.T. 0.00 min

Lab File: VW009662.D

Acq: 03 Apr 2019 13:48

Instrument :

MSVOA_W

ClientSampleId :

VSTD05013

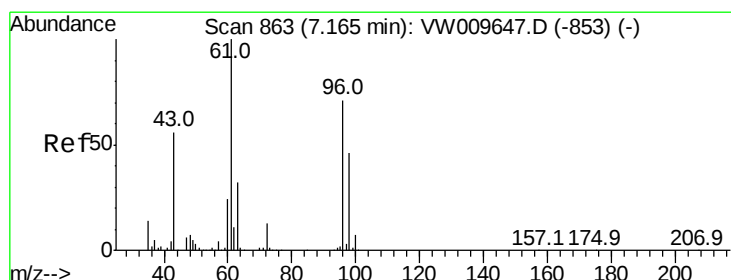
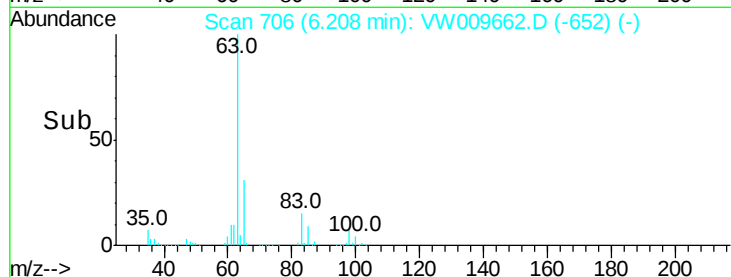
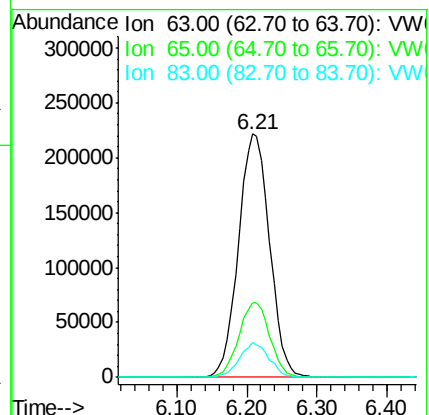
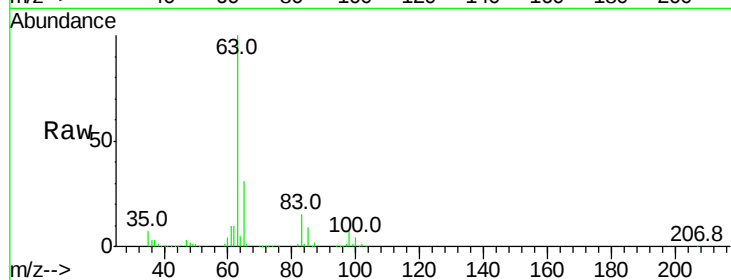
Tgt Ion: 63 Resp: 682936

Ion Ratio Lower Upper

63 100

65 30.8 21.6 40.0

83 14.6 10.1 18.7



#21

2-Butanone

Concen: 110.577 ug/L

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW009662.D

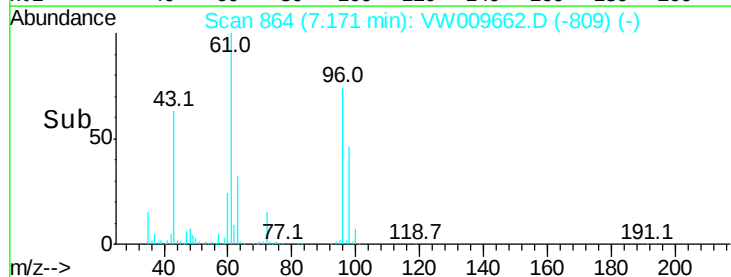
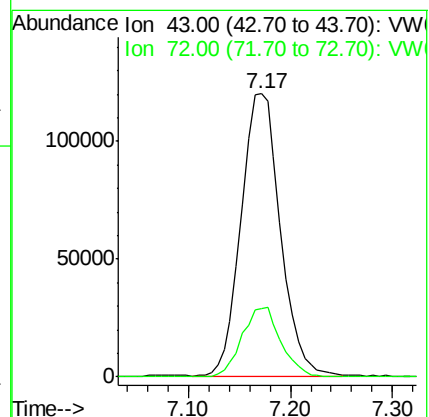
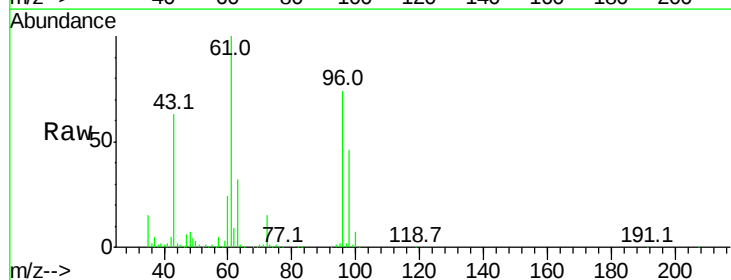
Acq: 03 Apr 2019 13:48

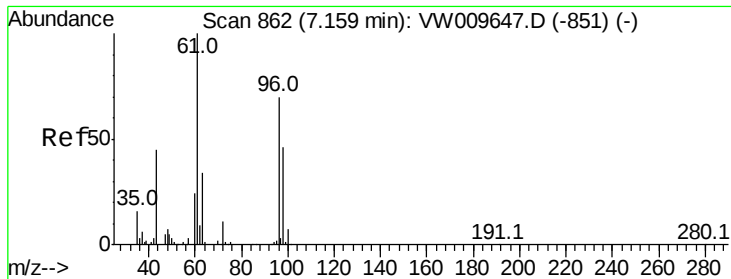
Tgt Ion: 43 Resp: 322082

Ion Ratio Lower Upper

43 100

72 24.3 13.1 39.1



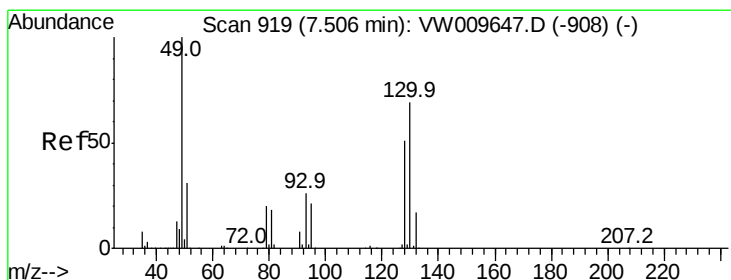
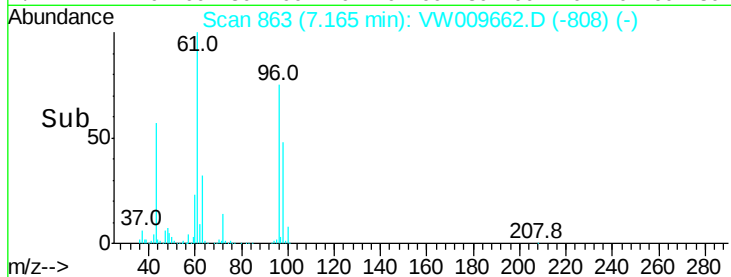
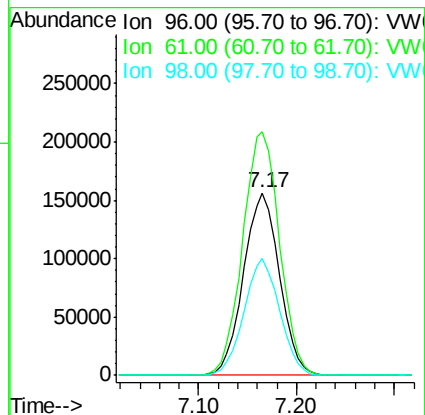
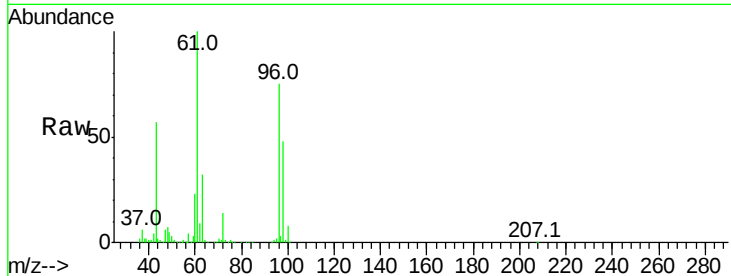


#22

cis-1,2-Dichloroethene
Concen: 54.722 ug/L
RT: 7.17 min Scan# 863
Delta R.T. 0.01 min
Lab File: VW009662.D
Acq: 03 Apr 2019 13:48

Instrument :
MSVOA_W
ClientSampled :
VSTD05013

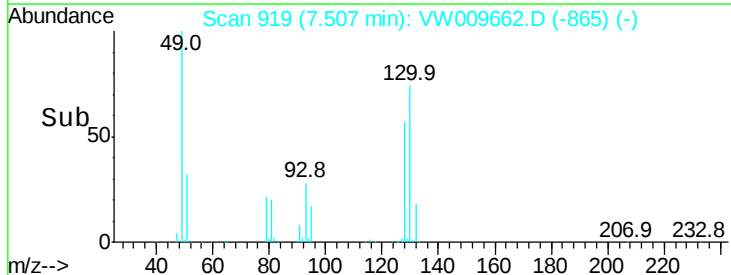
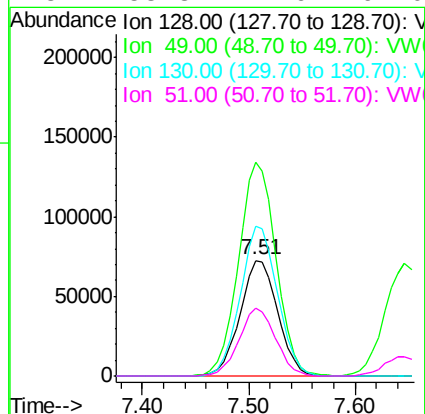
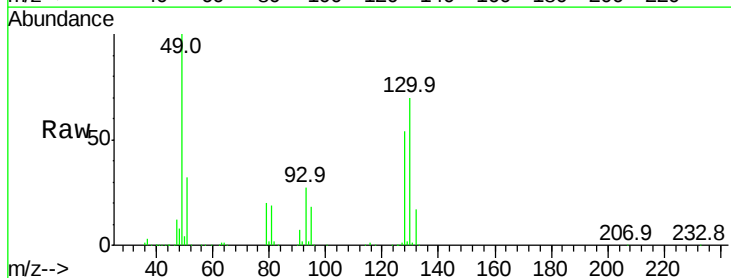
Tgt Ion: 96 Resp: 399482
Ion Ratio Lower Upper
96 100
61 133.6 90.6 168.3
98 64.4 44.0 81.8

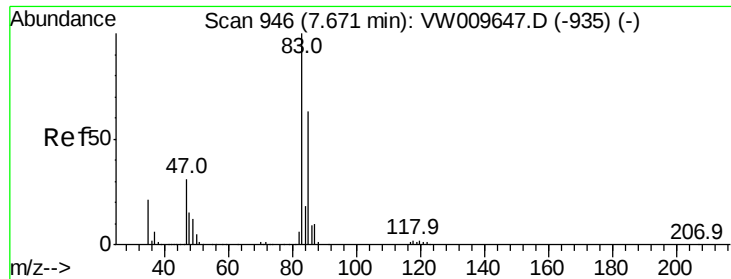


#23

Bromochloromethane
Concen: 51.475 ug/L
RT: 7.51 min Scan# 919
Delta R.T. 0.00 min
Lab File: VW009662.D
Acq: 03 Apr 2019 13:48

Tgt Ion: 128 Resp: 180234
Ion Ratio Lower Upper
128 100
49 184.6 118.4 219.8
130 129.4 87.8 163.2
51 58.3 44.6 67.0





#25

Chloroform

Concen: 54.950 ug/L

RT: 7.67 min Scan# 946

Delta R.T. 0.00 min

Lab File: VW009662.D

Acq: 03 Apr 2019 13:48

Instrument :

MSVOA_W

ClientSampleId :

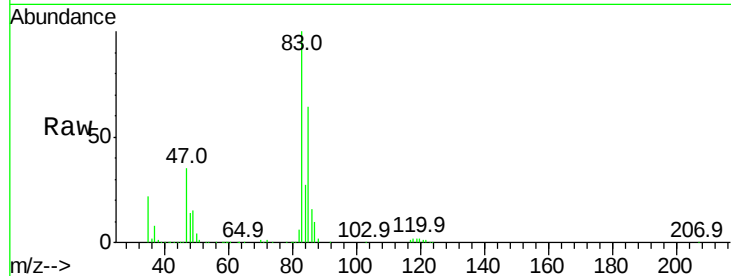
VSTD05013

Tgt Ion: 83 Resp: 707098

Ion Ratio Lower Upper

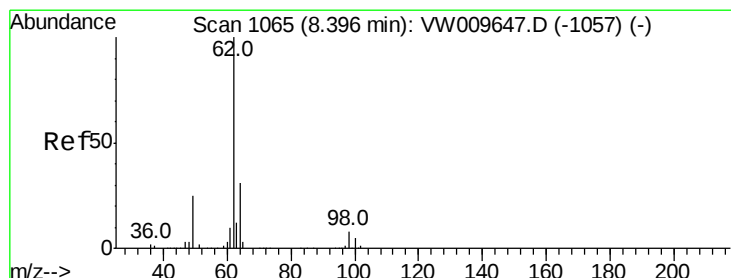
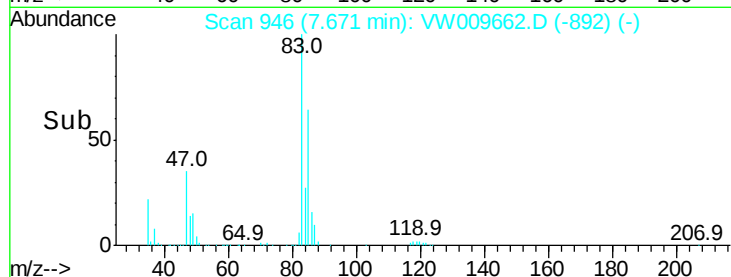
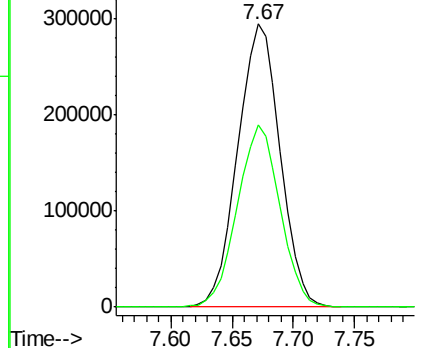
83 100

85 64.9 46.0 85.4



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW



#27

1,2-Dichloroethane

Concen: 57.113 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VW009662.D

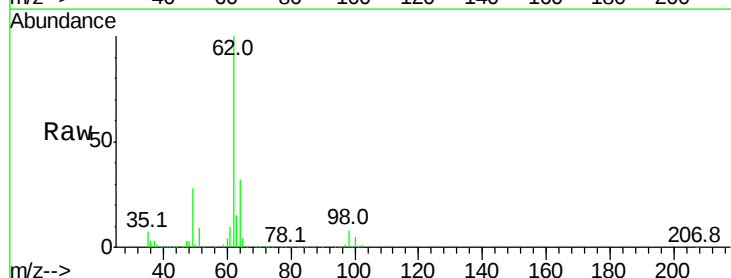
Acq: 03 Apr 2019 13:48

Tgt Ion: 62 Resp: 547948

Ion Ratio Lower Upper

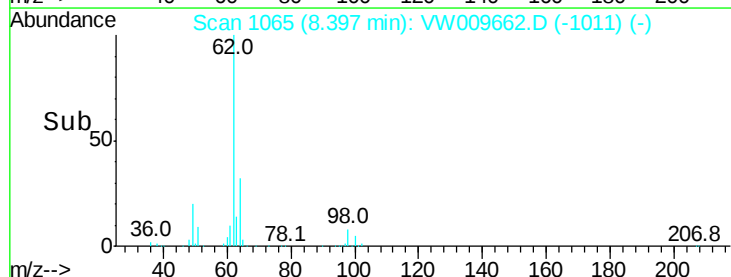
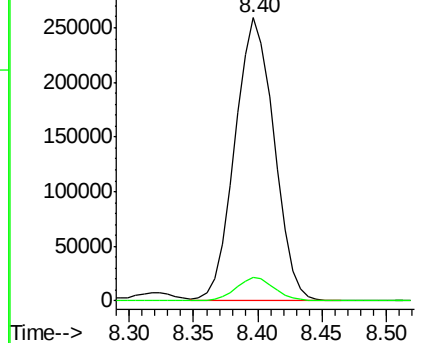
62 100

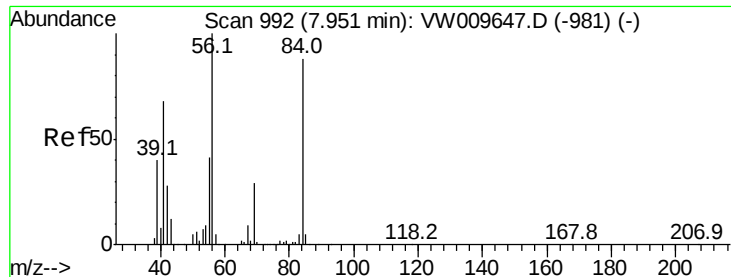
98 8.2 7.3 10.9



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 98.00 (97.70 to 98.70): VW

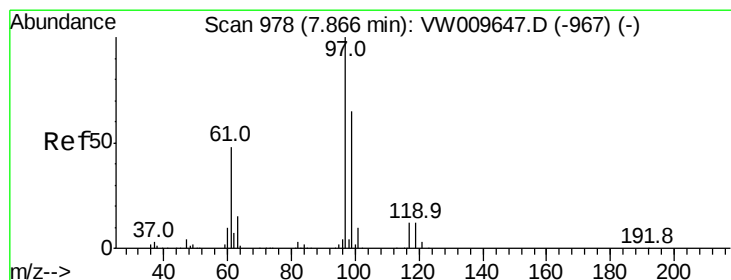
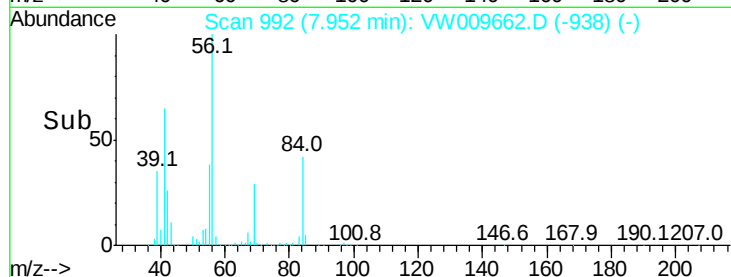
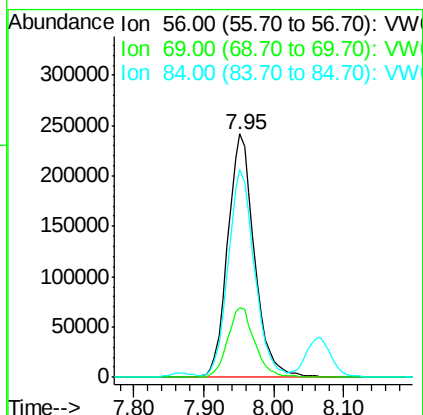
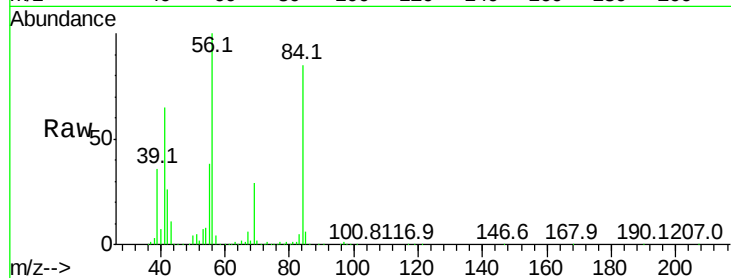




#30
Cyclohexane
Concen: 55.752 ug/L
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW009662.D
Acq: 03 Apr 2019 13:48

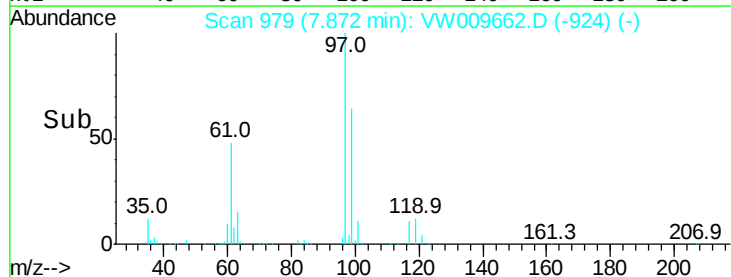
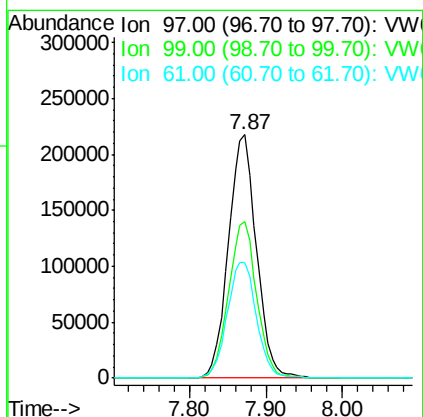
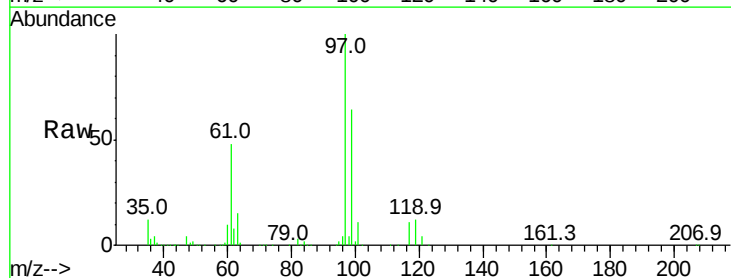
Instrument :
MSVOA_W
ClientSampleId :
VSTD05013

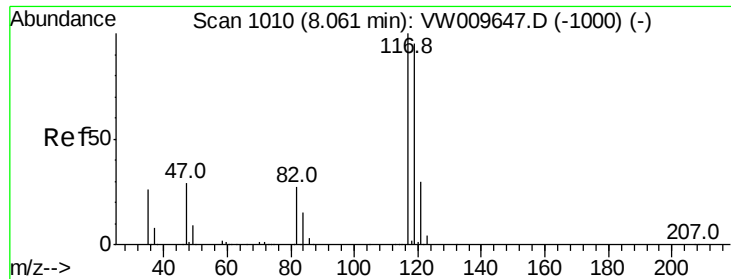
Tgt Ion: 56 Resp: 639975
Ion Ratio Lower Upper
56 100
69 28.9 24.0 36.0
84 84.1 69.2 103.8



#31
1,1,1-Trichloroethane
Concen: 54.783 ug/L
RT: 7.87 min Scan# 979
Delta R.T. 0.01 min
Lab File: VW009662.D
Acq: 03 Apr 2019 13:48

Tgt Ion: 97 Resp: 553026
Ion Ratio Lower Upper
97 100
99 64.4 51.2 76.8
61 49.7 38.4 57.6





#32

Carbon tetrachloride

Concen: 55.717 ug/L

RT: 8.06 min Scan# 1010

Delta R.T. 0.00 min

Lab File: VW009662.D

Acq: 03 Apr 2019 13:48

Instrument :

MSVOA_W

ClientSampleId :

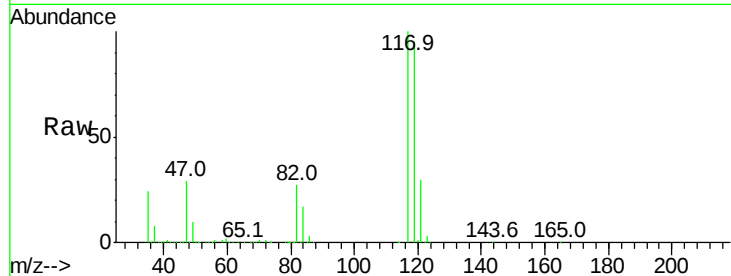
VSTD05013

Tgt Ion:117 Resp: 567485

Ion Ratio Lower Upper

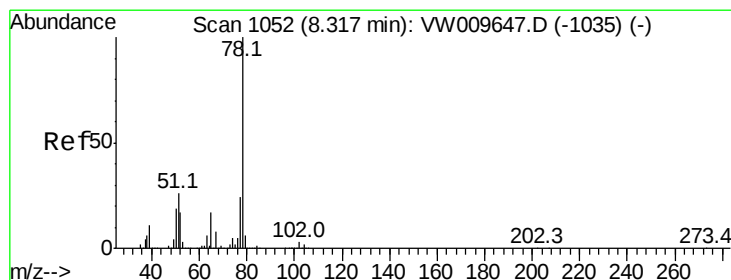
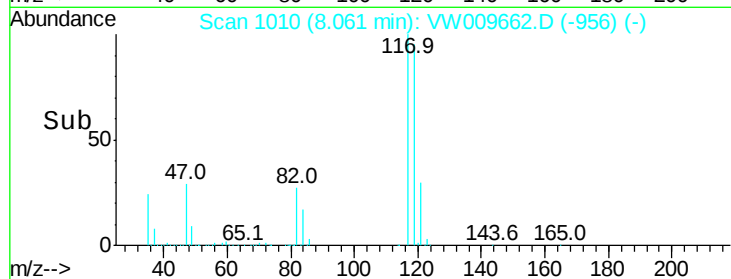
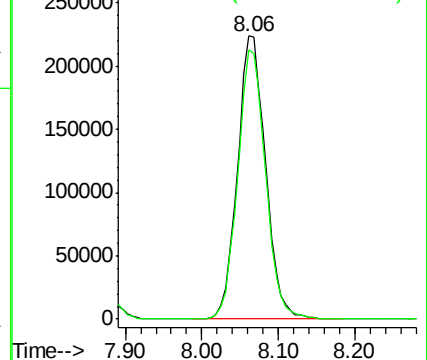
117 100

119 94.4 78.0 117.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 54.262 ug/L

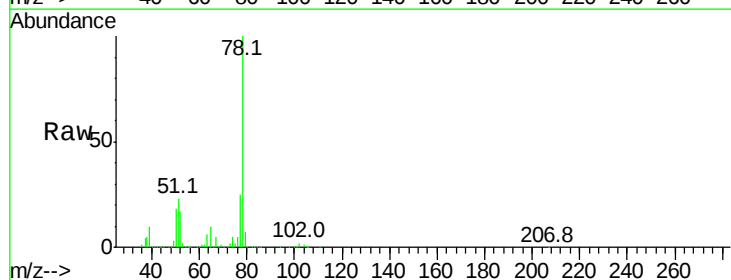
RT: 8.32 min Scan# 1053

Delta R.T. 0.01 min

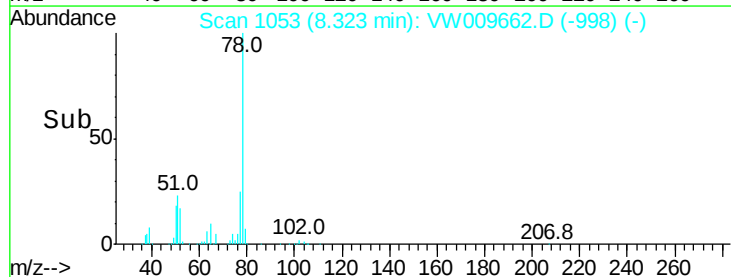
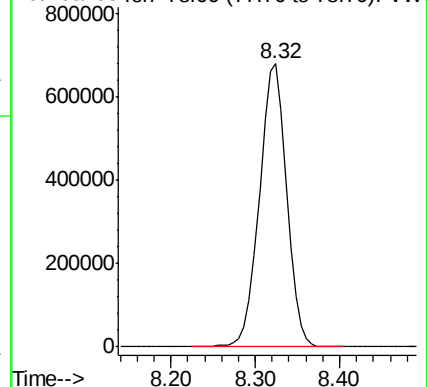
Lab File: VW009662.D

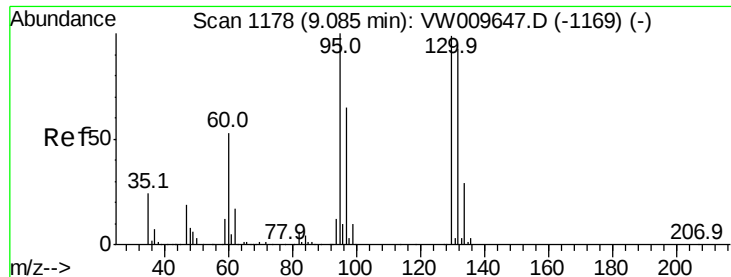
Acq: 03 Apr 2019 13:48

Tgt Ion: 78 Resp: 1501146



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 53.372 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VW009662.D

Acq: 03 Apr 2019 13:48

Instrument :

MSVOA_W

ClientSampleId :

VSTD05013

Tgt Ion: 95 Resp: 393442

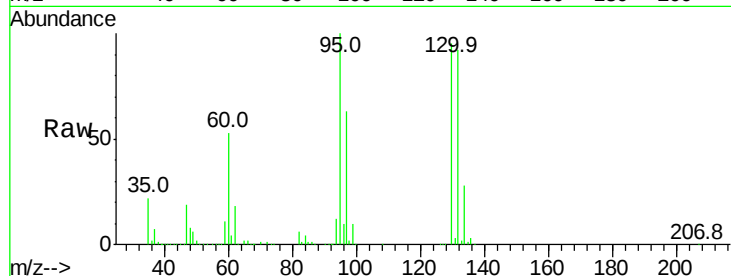
Ion Ratio Lower Upper

95 100

97 64.3 44.7 82.9

132 94.5 69.0 128.2

130 98.9 72.7 134.9

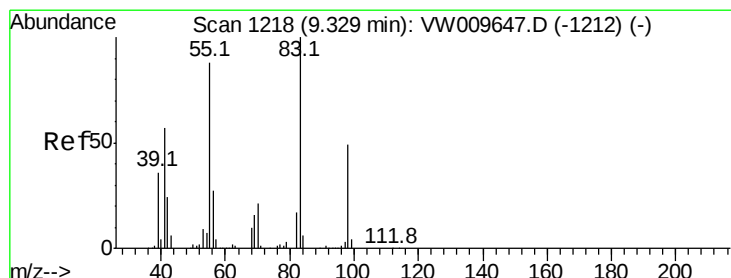
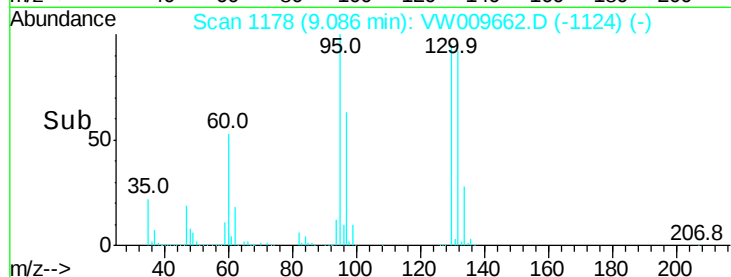
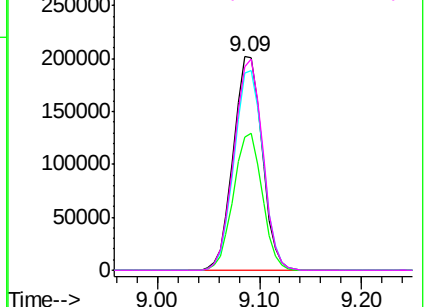


Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#36

Methylcyclohexane

Concen: 53.612 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. 0.01 min

Lab File: VW009662.D

Acq: 03 Apr 2019 13:48

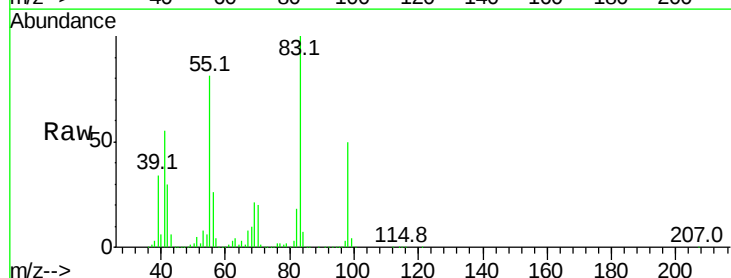
Tgt Ion: 83 Resp: 683743

Ion Ratio Lower Upper

83 100

55 81.5 63.5 95.3

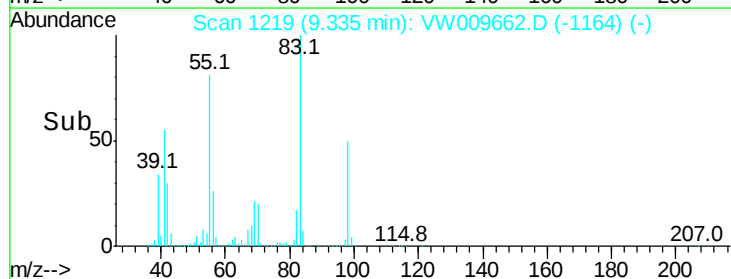
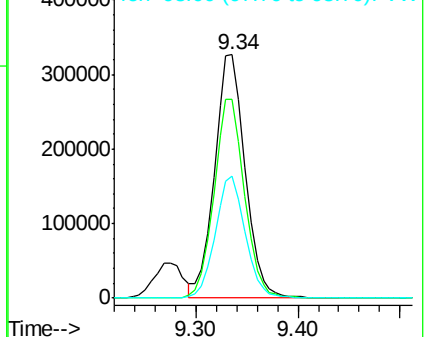
98 49.1 39.8 59.8

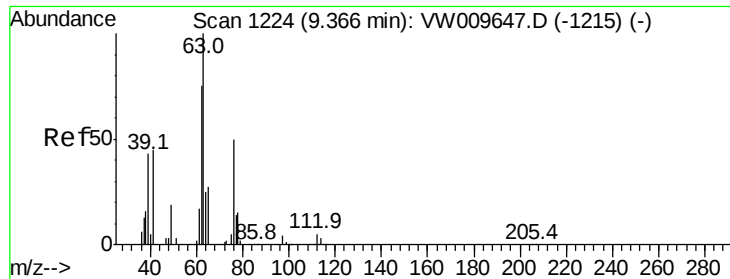


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#40

1,2-Dichloropropane

Concen: 54.033 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW009662.D

Acq: 03 Apr 2019 13:48

Instrument :

MSVOA_W

ClientSampleId :

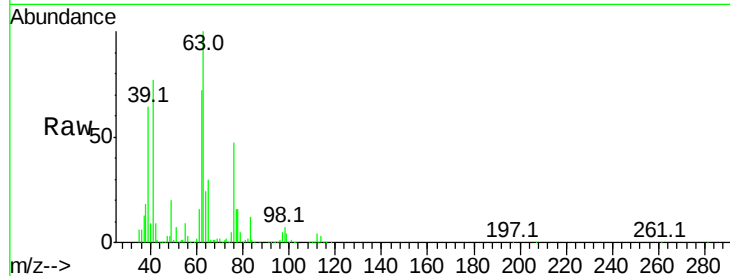
VSTD05013

Tgt Ion: 63 Resp: 383582

Ion Ratio Lower Upper

63 100

112 4.1 4.0 6.0



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V

200000

150000

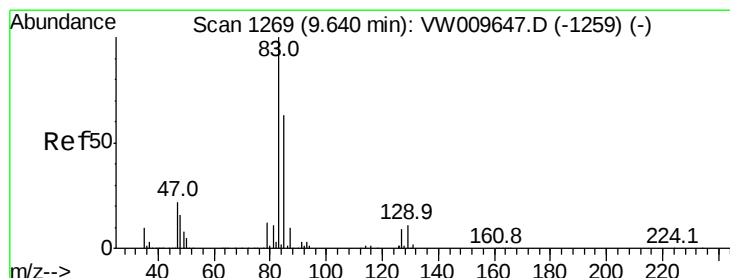
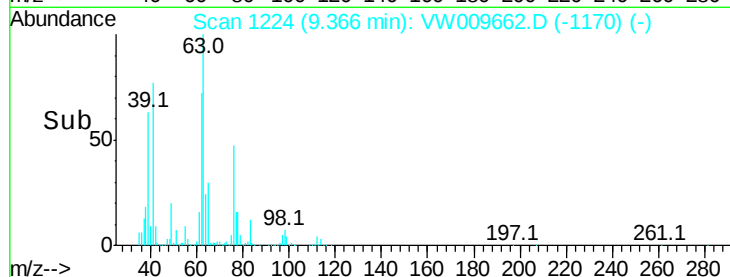
100000

50000

0

9.25 9.30 9.35 9.40 9.45

Time-->



#41

Bromodichloromethane

Concen: 54.987 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VW009662.D

Acq: 03 Apr 2019 13:48

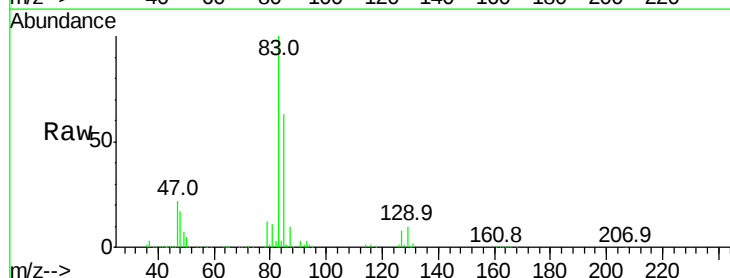
Tgt Ion: 83 Resp: 540864

Ion Ratio Lower Upper

83 100

85 62.9 43.5 80.7

127 7.8 6.2 9.4



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V

300000

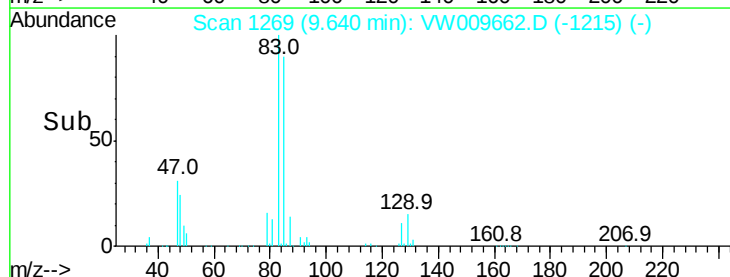
200000

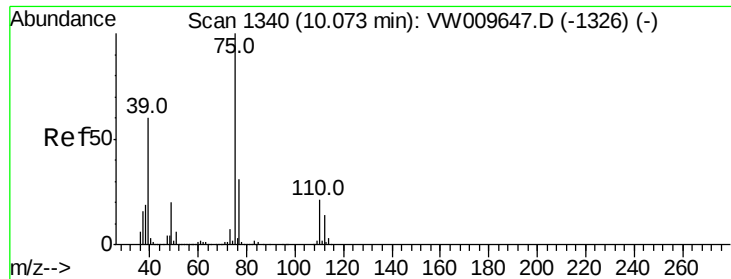
100000

0

9.55 9.60 9.65 9.70

Time-->





#42

cis-1,3-Dichloropropene

Concen: 55.475 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW009662.D

Acq: 03 Apr 2019 13:48

Instrument :

MSVOA_W

ClientSampleId :

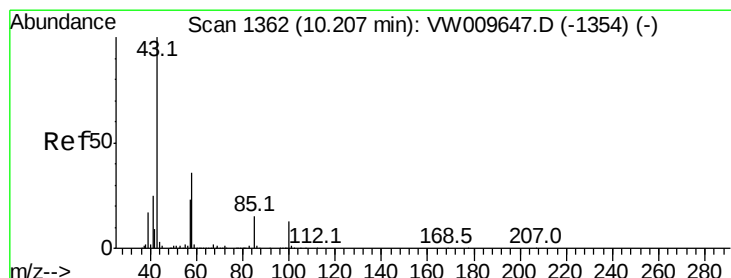
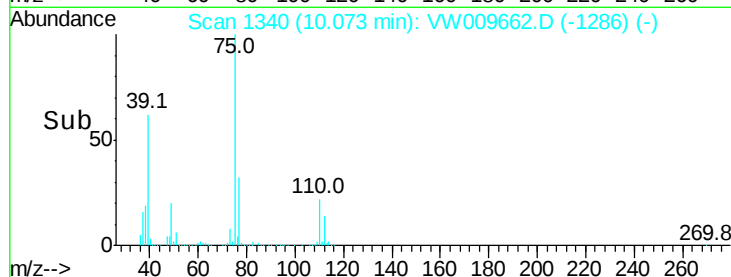
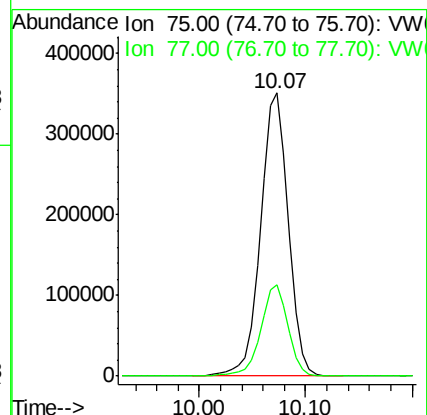
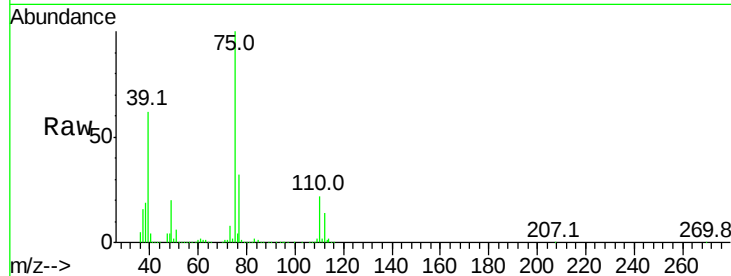
VSTD05013

Tgt Ion: 75 Resp: 641426

Ion Ratio Lower Upper

75 100

77 32.2 21.6 40.2



#43

4-Methyl-2-pentanone

Concen: 104.240 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW009662.D

Acq: 03 Apr 2019 13:48

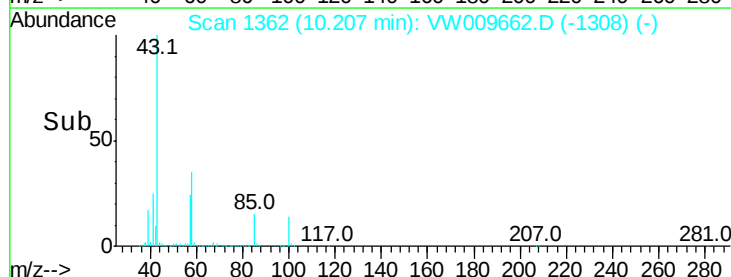
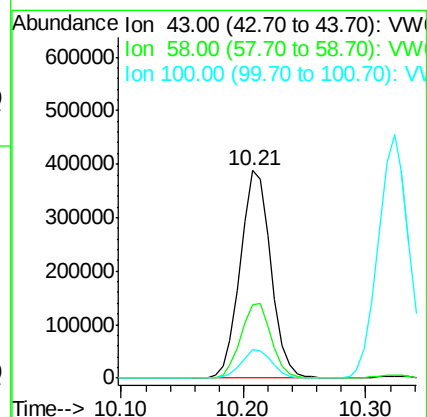
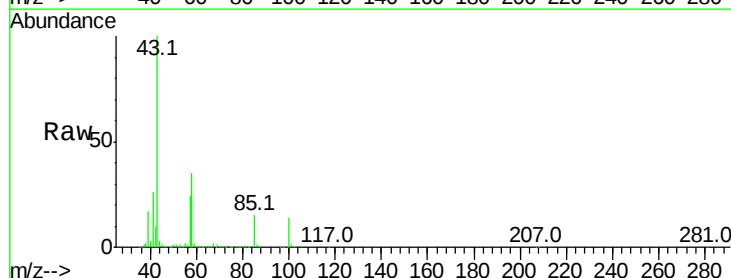
Tgt Ion: 43 Resp: 670557

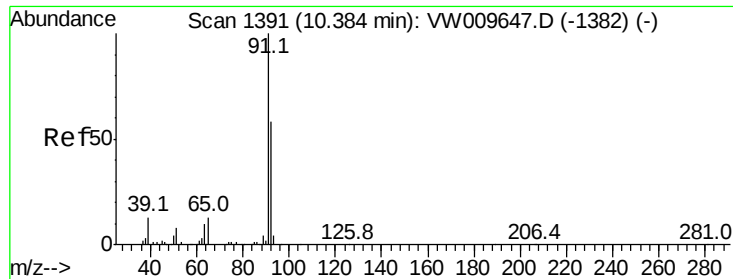
Ion Ratio Lower Upper

43 100

58 35.9 28.2 42.2

100 13.6 11.4 17.2





#44

Toluene

Concen: 54.471 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW009662.D

Acq: 03 Apr 2019 13:48

Instrument :

MSVOA_W

ClientSampled :

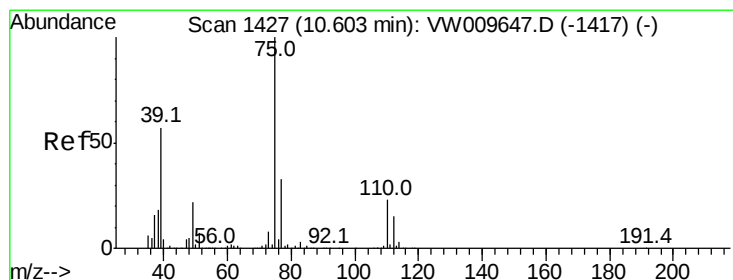
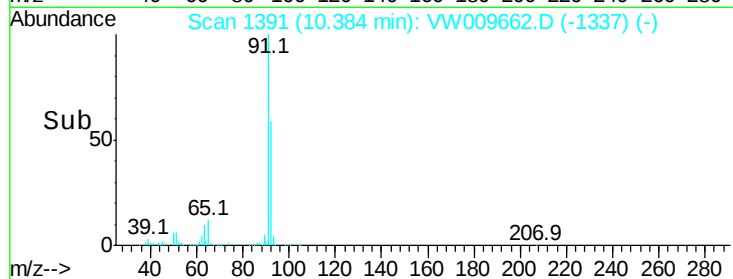
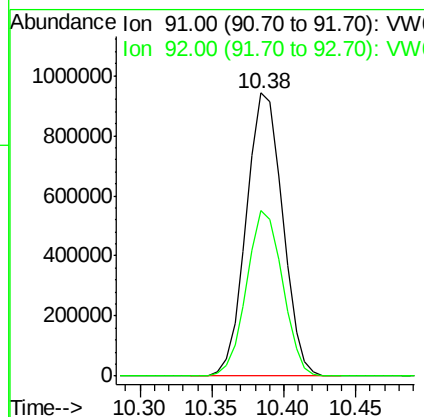
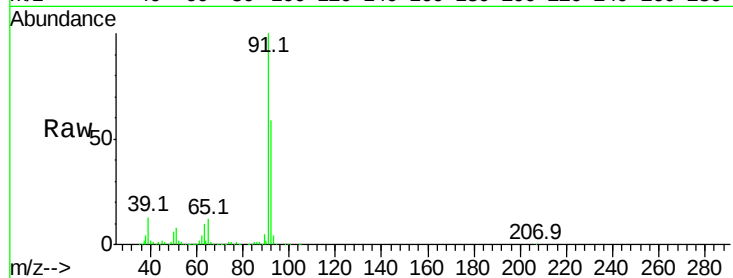
VSTD05013

Tgt Ion: 91 Resp: 1647626

Ion Ratio Lower Upper

91 100

92 58.6 39.8 73.8



#45

trans-1,3-Dichloropropene

Concen: 55.706 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW009662.D

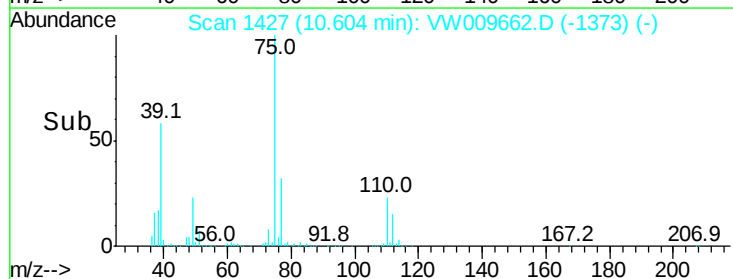
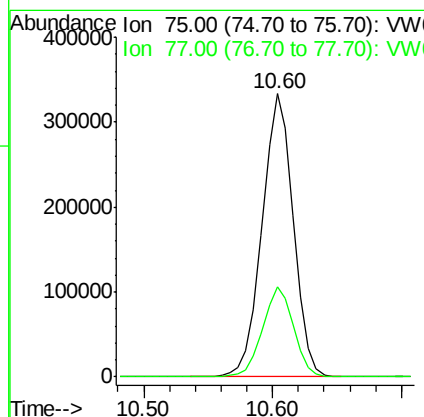
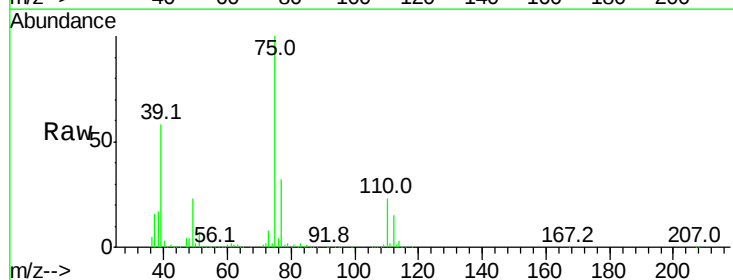
Acq: 03 Apr 2019 13:48

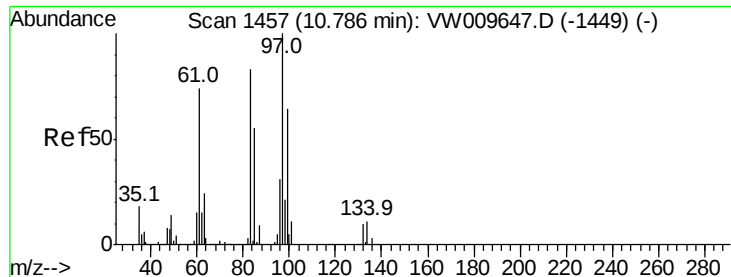
Tgt Ion: 75 Resp: 560294

Ion Ratio Lower Upper

75 100

77 32.0 22.5 41.7





#46

1,1,2-Trichloroethane

Concen: 52.349 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW009662.D

Acq: 03 Apr 2019 13:48

Instrument :

MSVOA_W

ClientSampleId :

VSTD05013

Tgt Ion: 97 Resp: 296481

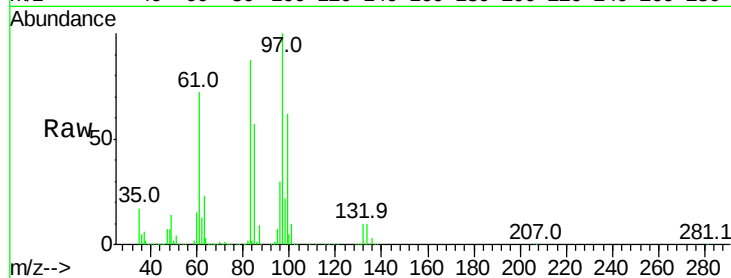
Ion Ratio Lower Upper

97 100

83 87.1 60.7 112.7

85 56.6 40.1 74.5

99 62.0 43.8 81.3

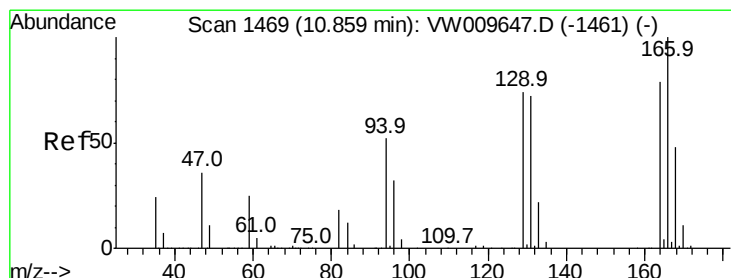
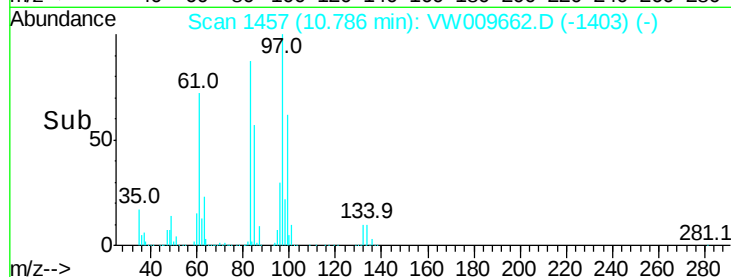
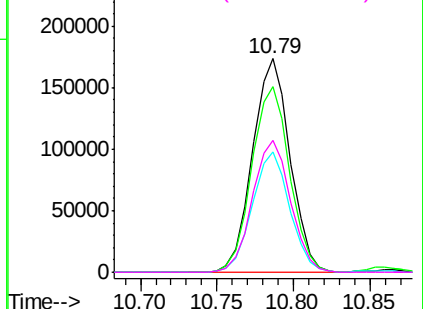


Abundance Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47

Tetrachloroethene

Concen: 49.802 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW009662.D

Acq: 03 Apr 2019 13:48

Tgt Ion: 164 Resp: 310199

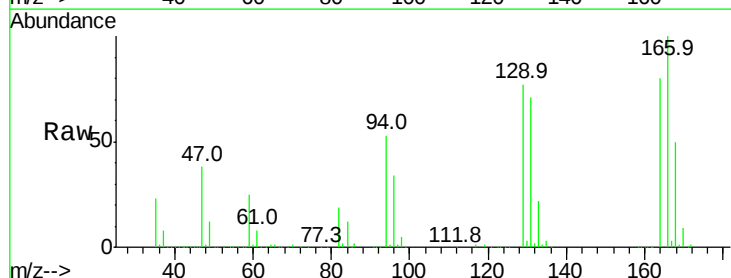
Ion Ratio Lower Upper

164 100

129 95.6 66.5 123.5

131 88.4 62.6 116.3

166 124.7 91.6 170.0

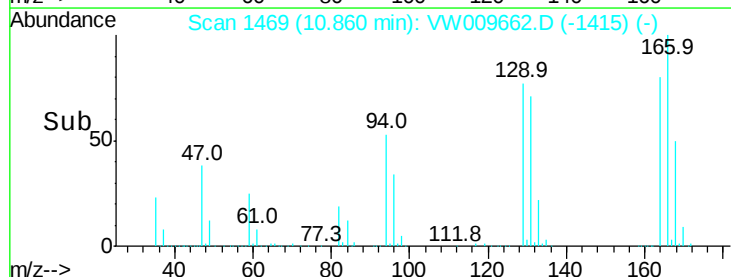
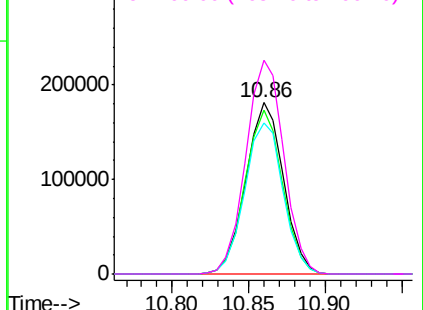


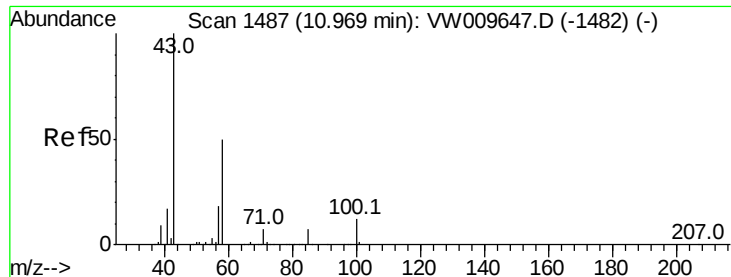
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V





#49

2-Hexanone

Concen: 111.124 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW009662.D

Acq: 03 Apr 2019 13:48

Instrument :

MSVOA_W

ClientSampleId :

VSTD05013

Tgt Ion: 43 Resp: 503469

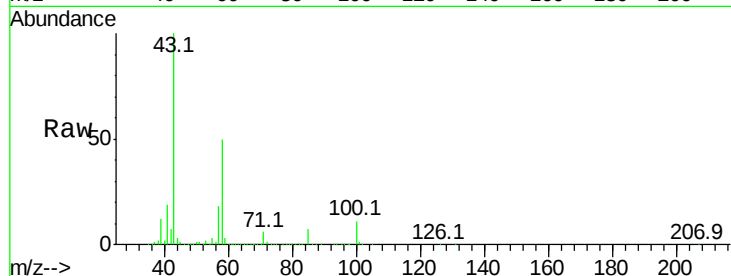
Ion Ratio Lower Upper

43 100

58 50.5 39.2 58.8

57 17.8 14.2 21.2

100 10.7 8.9 13.3

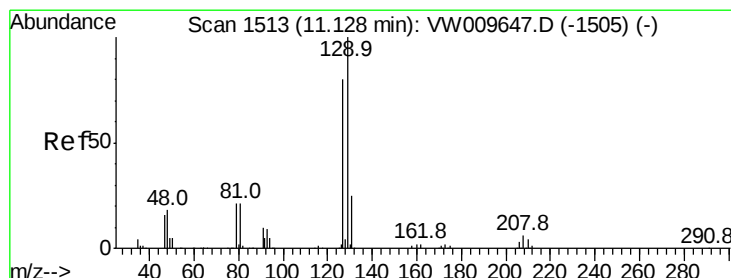
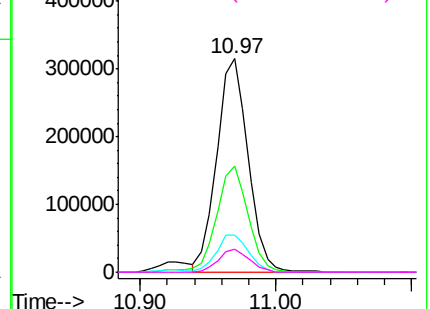
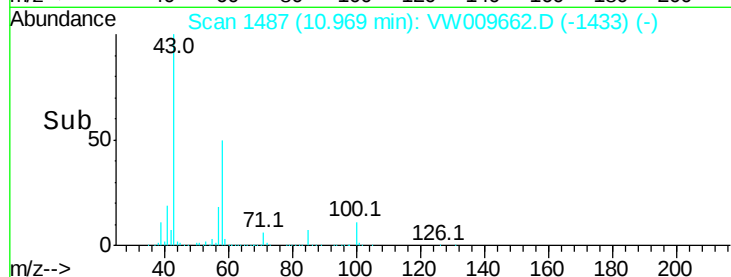


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 57.00 (56.70 to 57.70): VW

Ion 100.00 (99.70 to 100.70): VW



#50

Dibromochloromethane

Concen: 53.558 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW009662.D

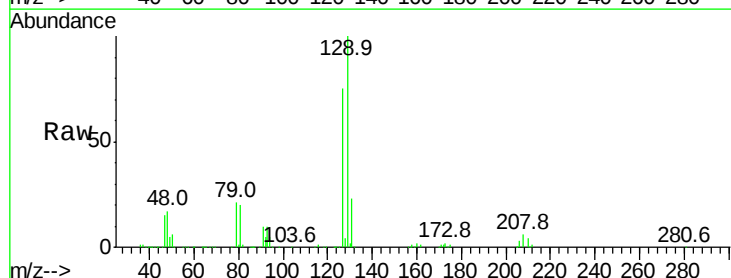
Acq: 03 Apr 2019 13:48

Tgt Ion: 129 Resp: 374447

Ion Ratio Lower Upper

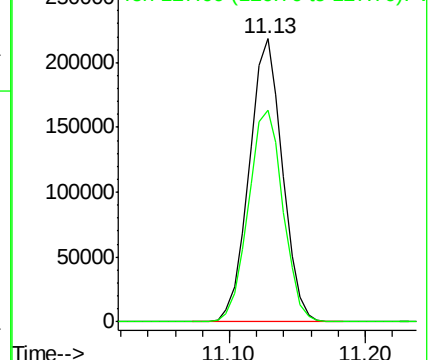
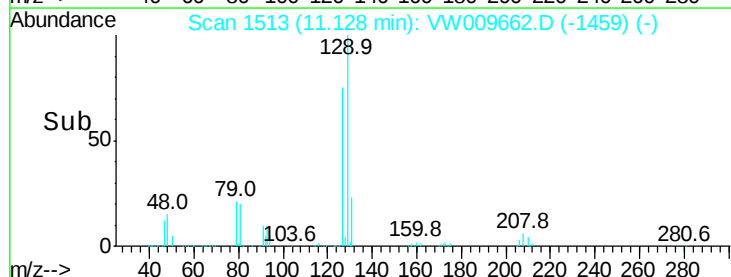
129 100

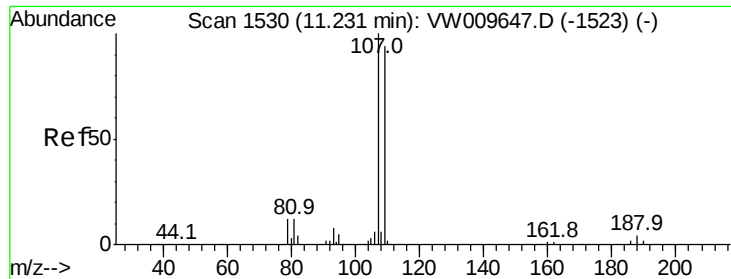
127 74.8 56.8 105.6



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

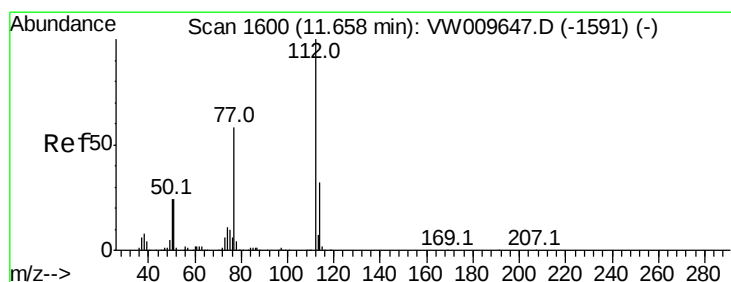
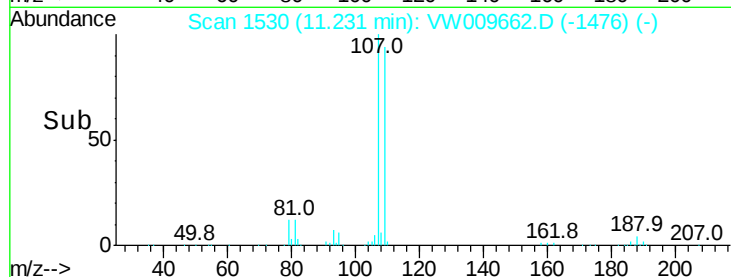
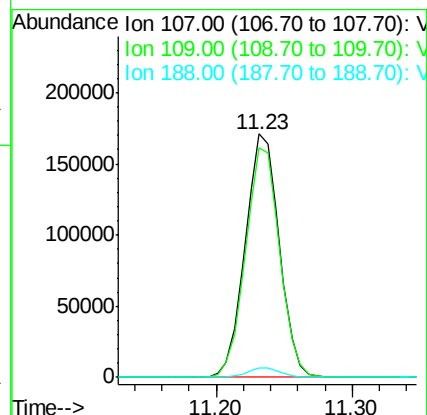
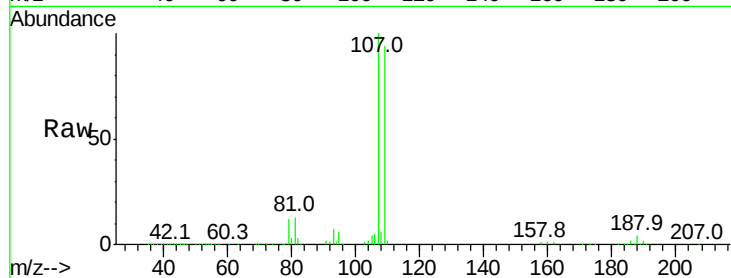




#51
 1,2-Dibromoethane
 Concen: 52.172 ug/L
 RT: 11.23 min Scan# 1530
 Delta R.T. 0.00 min
 Lab File: VW009662.D
 Acq: 03 Apr 2019 13:48

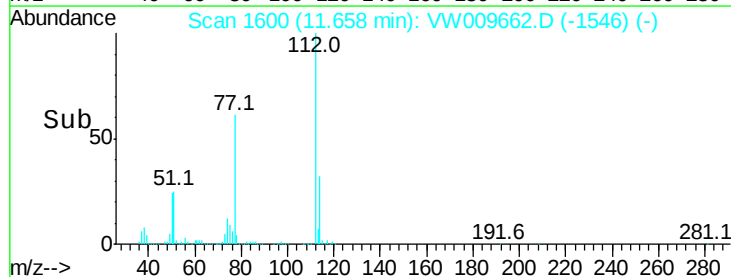
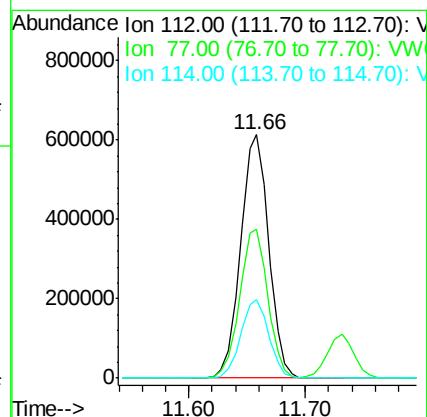
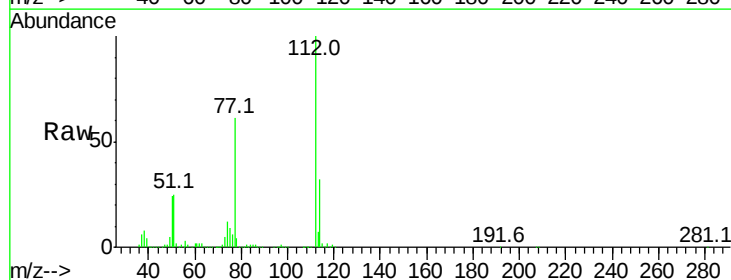
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD05013

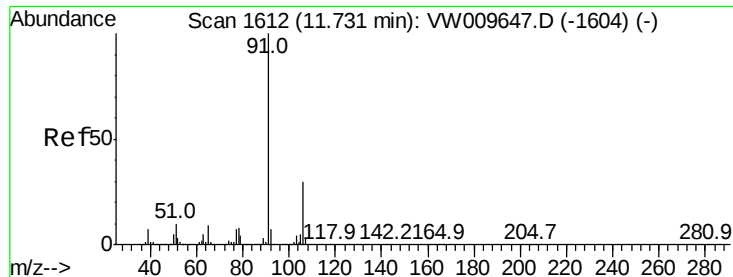
Tgt Ion:107 Resp: 299546
 Ion Ratio Lower Upper
 107 100
 109 94.2 68.0 126.4
 188 3.7 3.5 5.3



#52
 Chlorobenzene
 Concen: 53.054 ug/L
 RT: 11.66 min Scan# 1600
 Delta R.T. 0.00 min
 Lab File: VW009662.D
 Acq: 03 Apr 2019 13:48

Tgt Ion:112 Resp: 1029264
 Ion Ratio Lower Upper
 112 100
 77 61.1 45.7 68.5
 114 32.2 22.8 42.4





#53

Ethylbenzene

Concen: 56.334 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW009662.D

Acq: 03 Apr 2019 13:48

Instrument :

MSVOA_W

ClientSampleId :

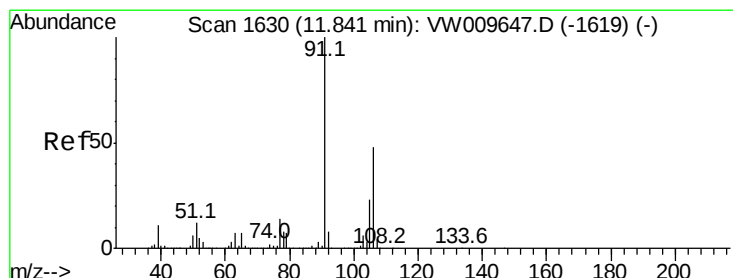
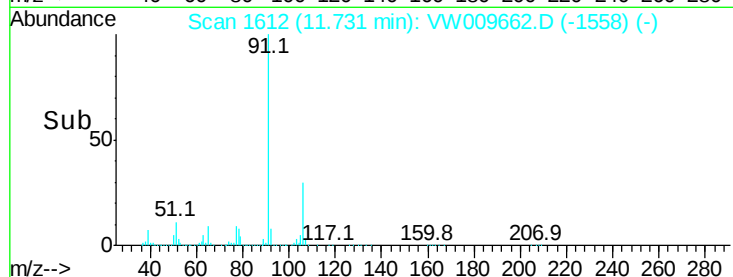
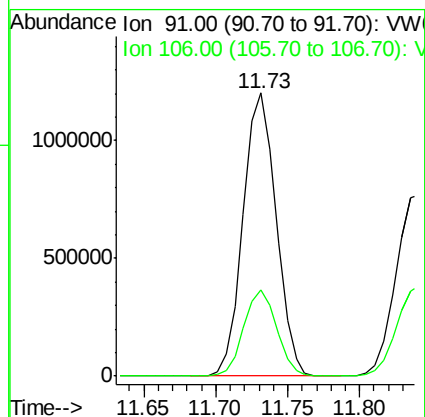
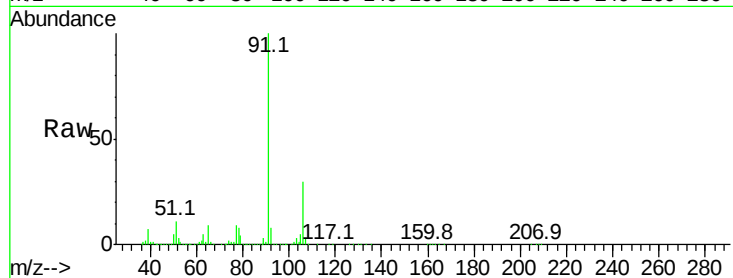
VSTD05013

Tgt Ion: 91 Resp: 1915723

Ion Ratio Lower Upper

91 100

106 30.4 21.0 39.0



#54

m,p-Xylene

Concen: 55.523 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW009662.D

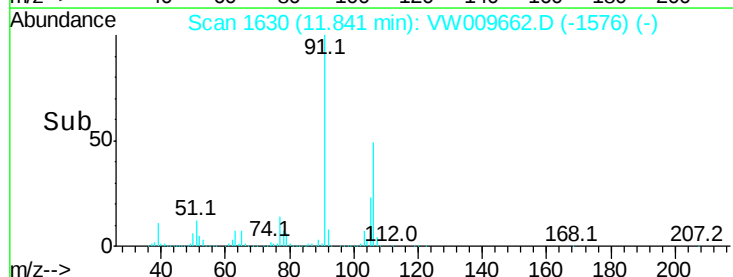
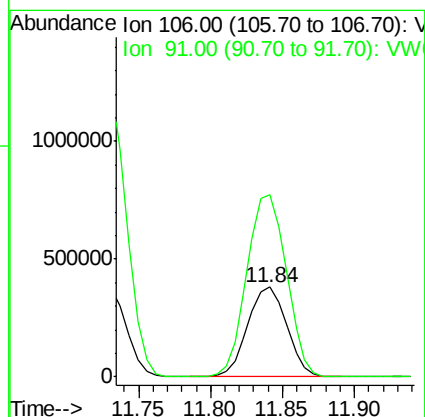
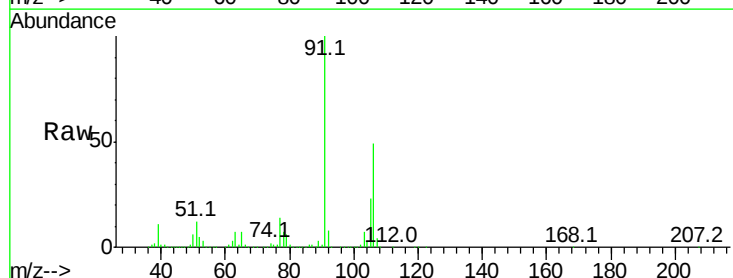
Acq: 03 Apr 2019 13:48

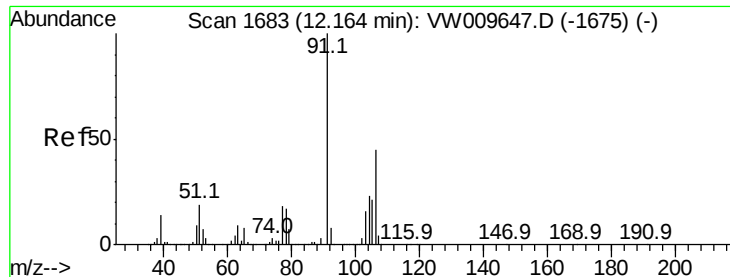
Tgt Ion: 106 Resp: 717344

Ion Ratio Lower Upper

106 100

91 203.5 138.4 257.0





#55

o-xylene

Concen: 55.394 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW009662.D

Acq: 03 Apr 2019 13:48

Instrument :

MSVOA_W

ClientSampleId :

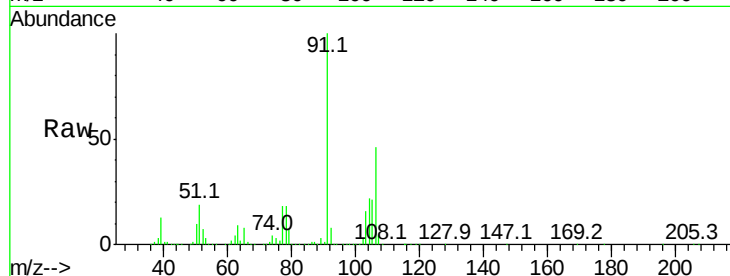
VSTD05013

Tgt Ion:106 Resp: 698193

Ion Ratio Lower Upper

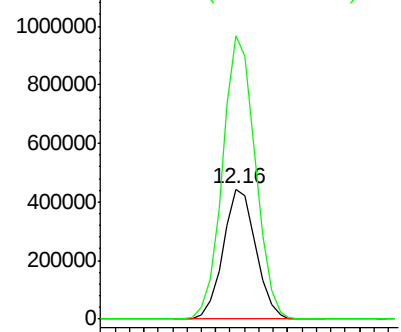
106 100

91 218.1 153.2 284.4

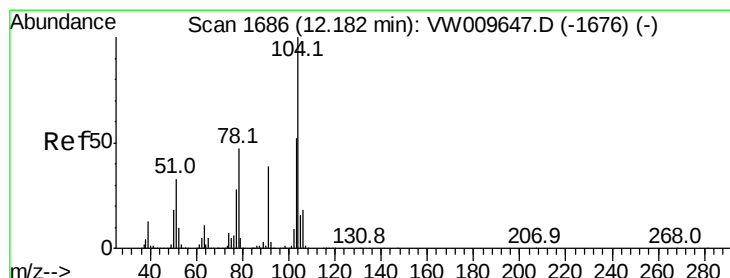
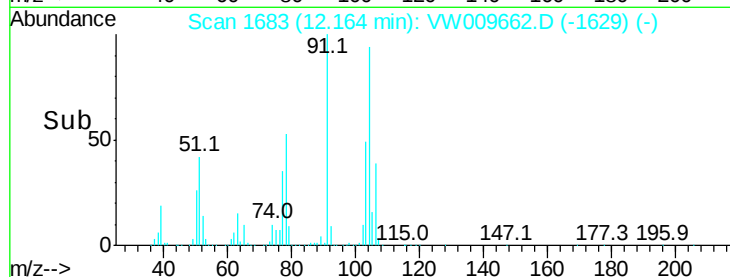


Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



Time-->



#56

Styrene

Concen: 57.145 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VW009662.D

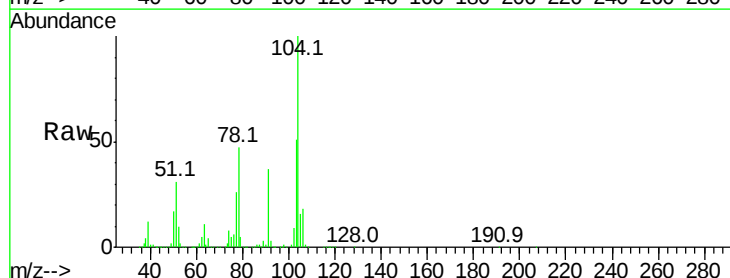
Acq: 03 Apr 2019 13:48

Tgt Ion:104 Resp: 1228906

Ion Ratio Lower Upper

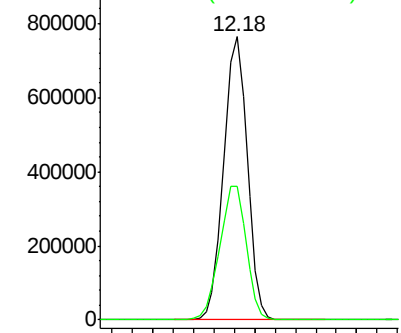
104 100

78 47.1 30.9 57.3

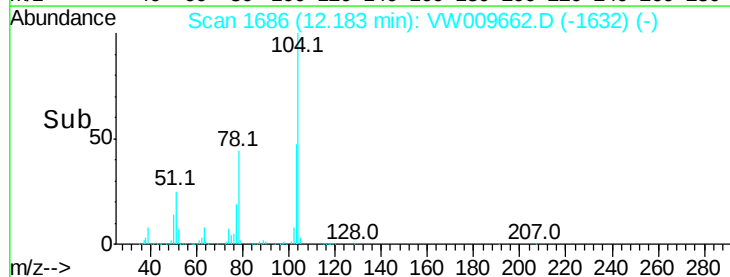


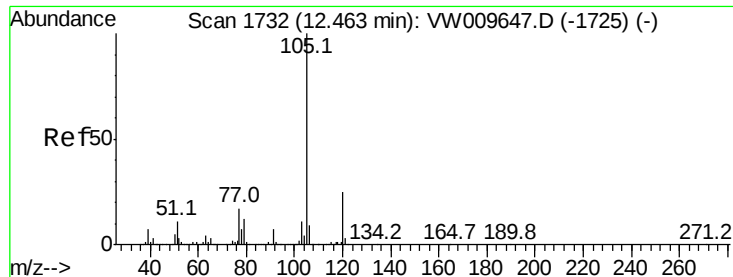
Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW



Time-->





#57

Isopropylbenzene

Concen: 56.842 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW009662.D

Acq: 03 Apr 2019 13:48

Instrument :

MSVOA_W

ClientSampleId :

VSTD05013

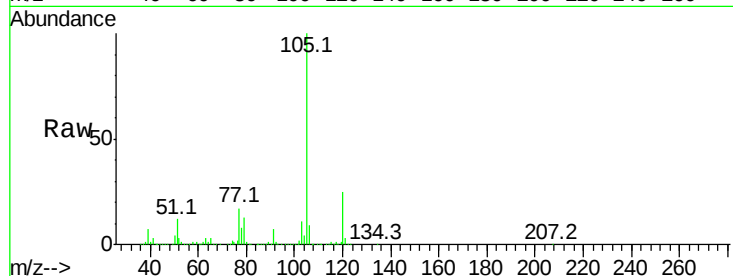
Tgt Ion:105 Resp: 1919212

Ion Ratio Lower Upper

105 100

120 25.8 21.3 31.9

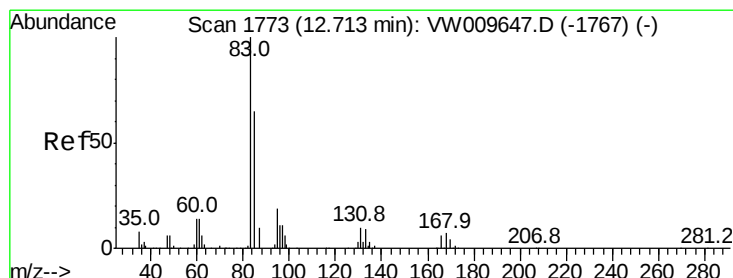
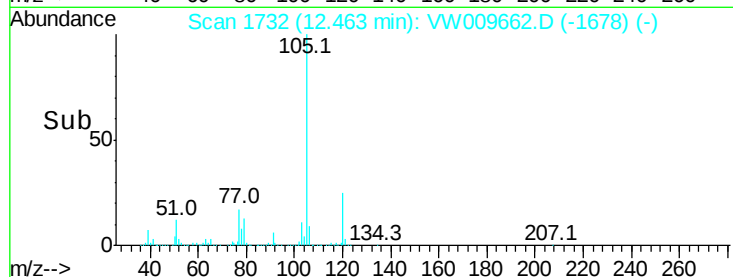
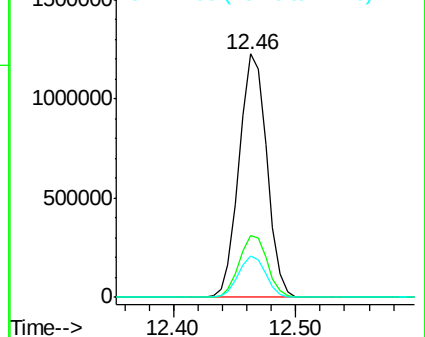
77 16.8 13.1 19.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 53.749 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW009662.D

Acq: 03 Apr 2019 13:48

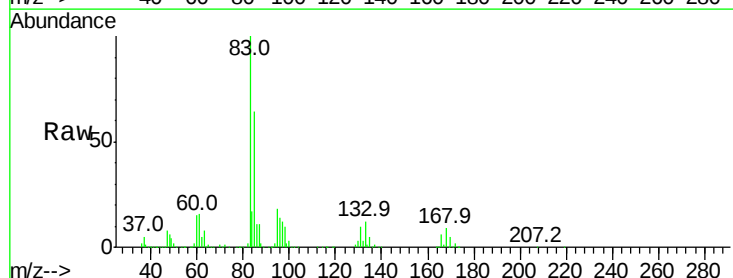
Tgt Ion: 83 Resp: 410668

Ion Ratio Lower Upper

83 100

85 64.4 45.6 84.8

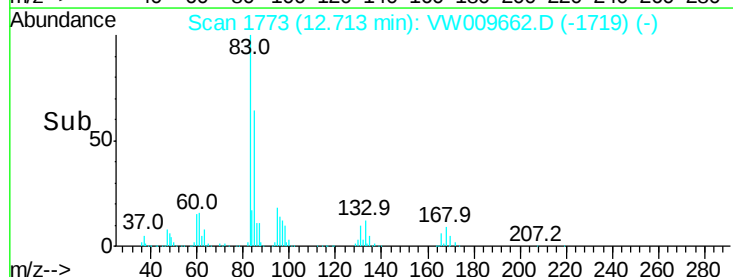
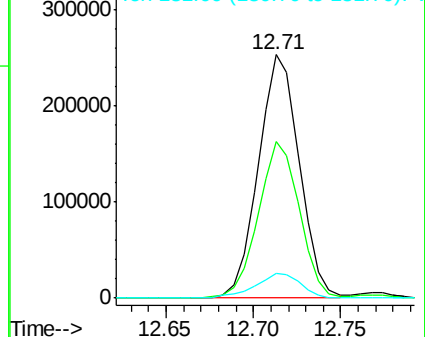
131 10.0 9.2 13.8

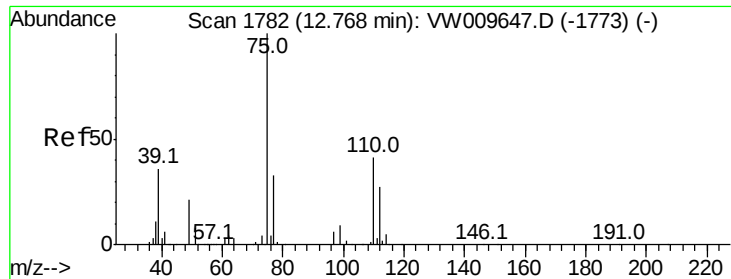


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 54.487 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW009662.D

Acq: 03 Apr 2019 13:48

Instrument :

MSVOA_W

ClientSampleId :

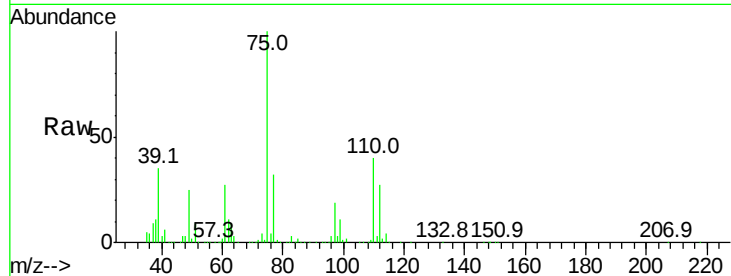
VSTD05013

Tgt Ion: 75 Resp: 308952

Ion Ratio Lower Upper

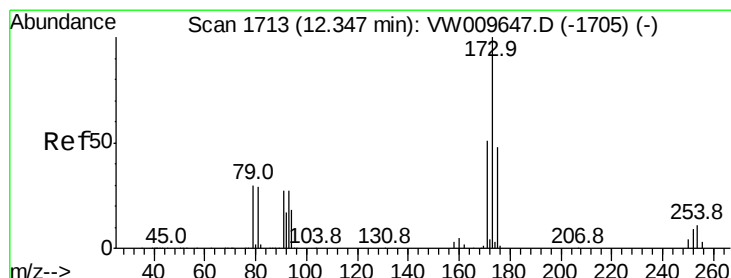
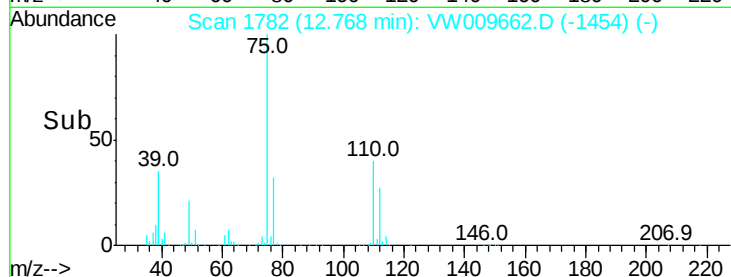
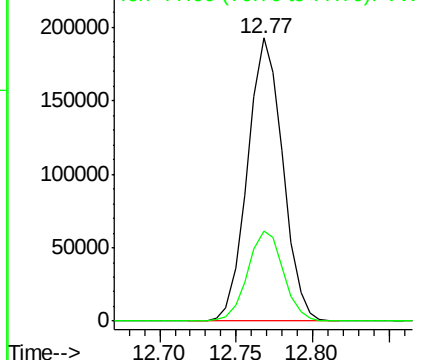
75 100

77 32.3 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW



#62

Bromoform

Concen: 53.228 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW009662.D

Acq: 03 Apr 2019 13:48

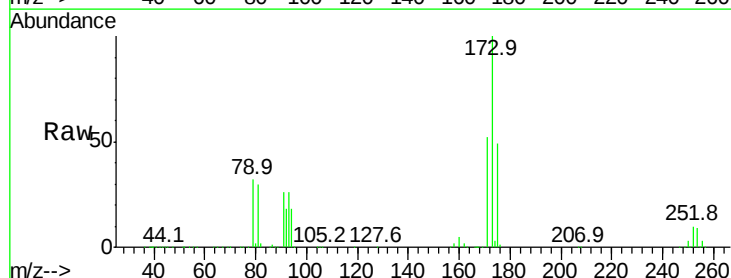
Tgt Ion: 173 Resp: 236458

Ion Ratio Lower Upper

173 100

175 48.1 39.7 59.5

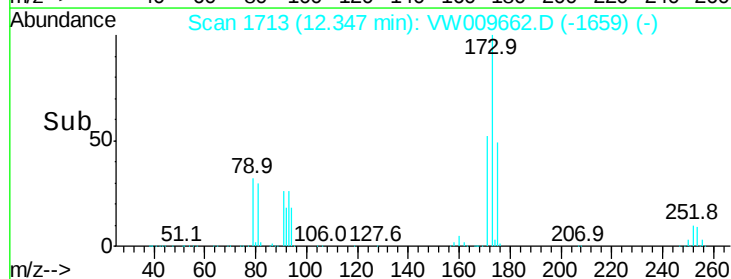
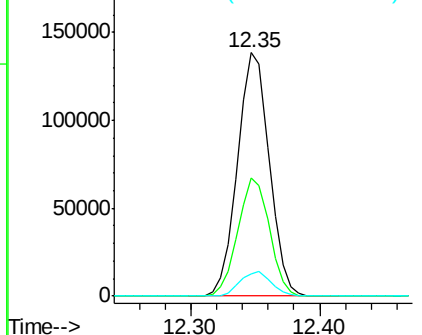
254 10.0 8.5 12.7

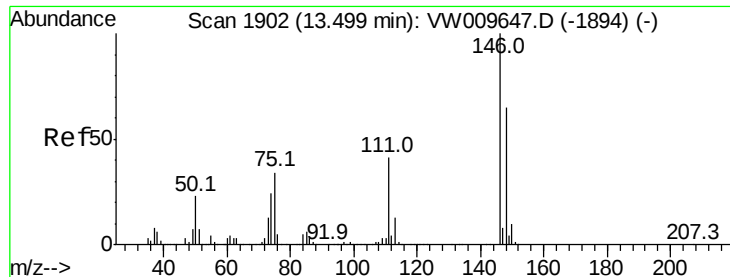


Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V





#63

1,3-Dichlorobenzene

Concen: 52.611 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW009662.D

Acq: 03 Apr 2019 13:48

Instrument :

MSVOA_W

ClientSampleId :

VSTD05013

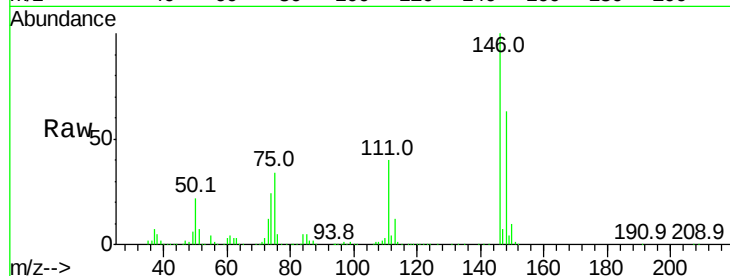
Tgt Ion:146 Resp: 824390

Ion Ratio Lower Upper

146 100

111 40.2 26.9 49.9

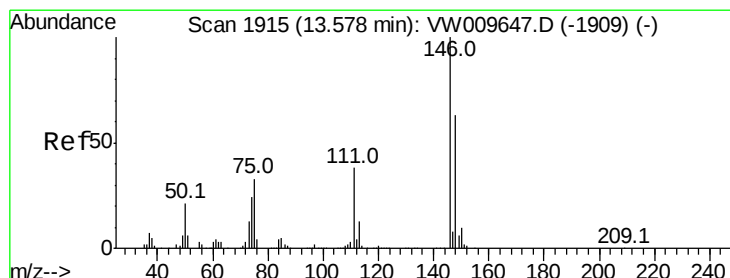
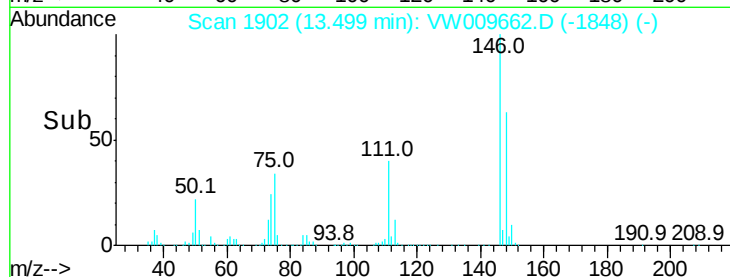
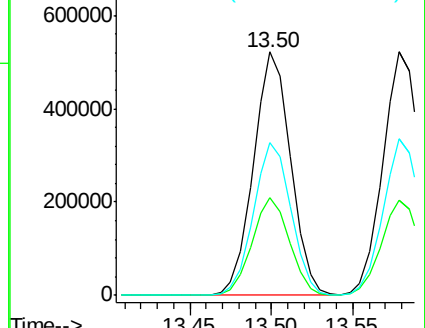
148 63.0 45.1 83.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#64

1,4-Dichlorobenzene

Concen: 51.578 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. 0.00 min

Lab File: VW009662.D

Acq: 03 Apr 2019 13:48

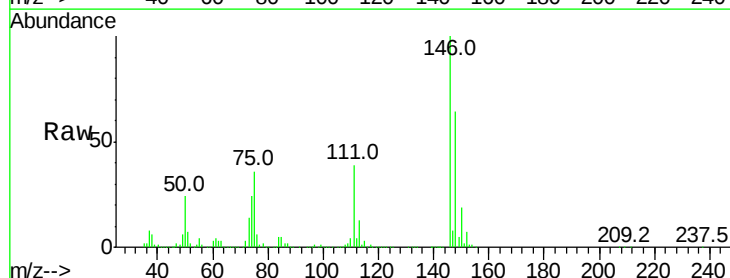
Tgt Ion:146 Resp: 835592

Ion Ratio Lower Upper

146 100

111 39.2 27.8 51.6

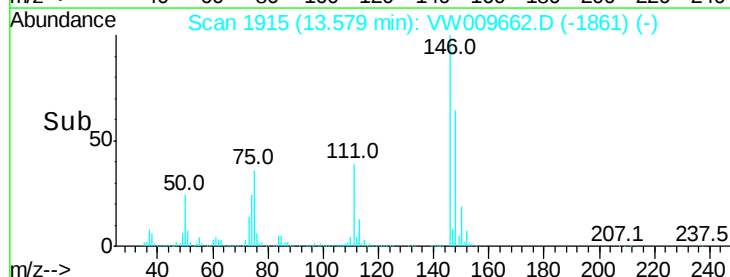
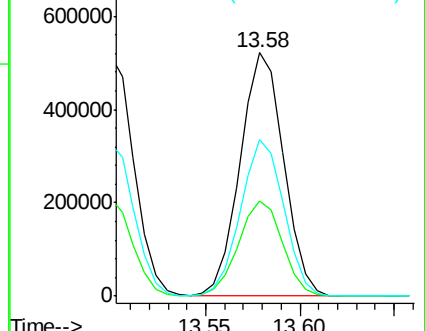
148 64.3 46.3 86.1

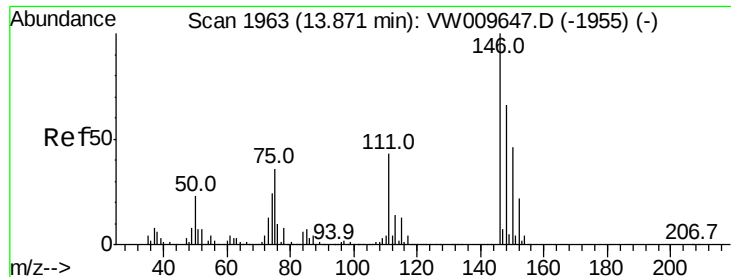


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 51.861 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VW009662.D

Acq: 03 Apr 2019 13:48

Instrument :

MSVOA_W

ClientSampleId :

VSTD05013

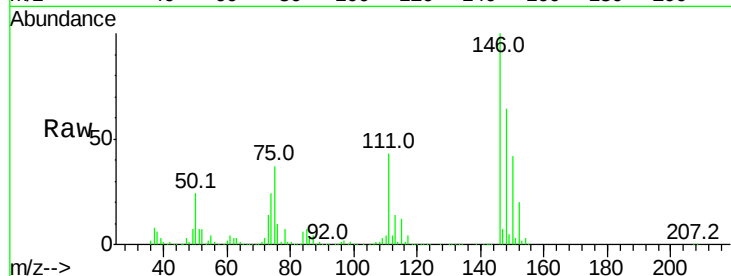
Tgt Ion:146 Resp: 774983

Ion Ratio Lower Upper

146 100

111 43.5 33.5 50.3

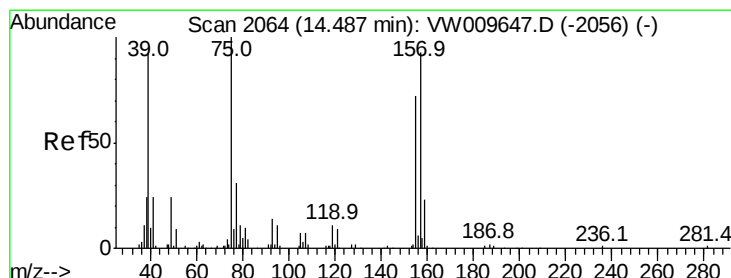
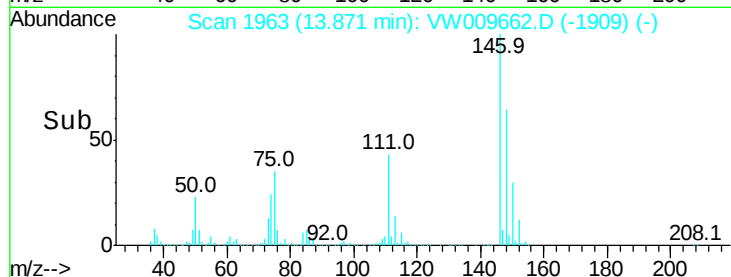
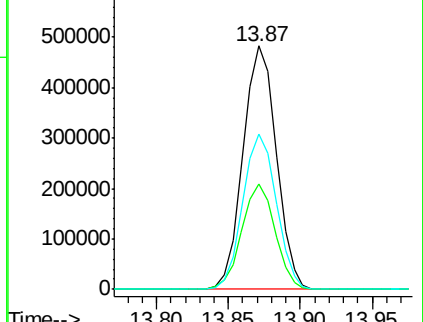
148 64.0 50.2 75.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 52.327 ug/L

RT: 14.49 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VW009662.D

Acq: 03 Apr 2019 13:48

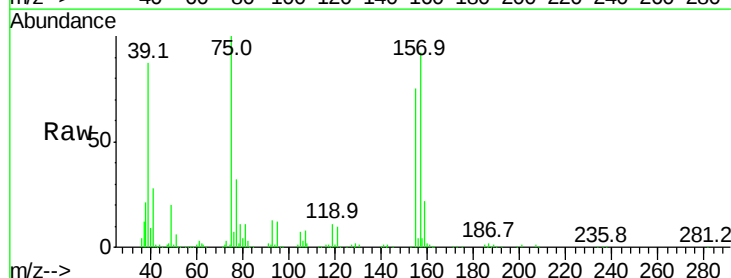
Tgt Ion: 75 Resp: 76636

Ion Ratio Lower Upper

75 100

157 92.3 89.0 133.4

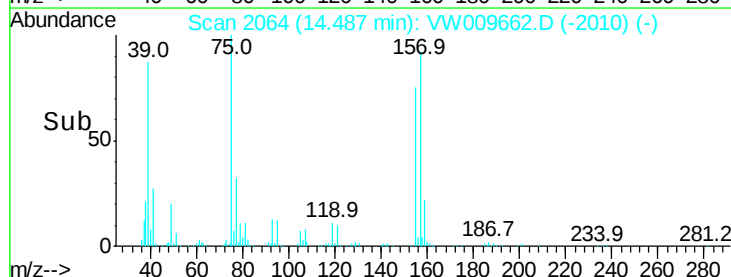
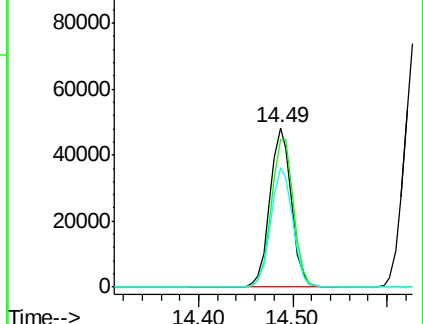
155 74.9 64.2 96.2

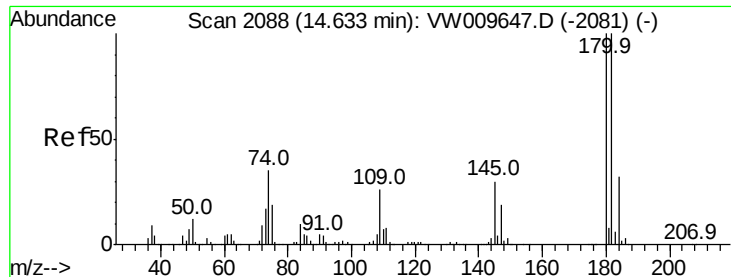


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

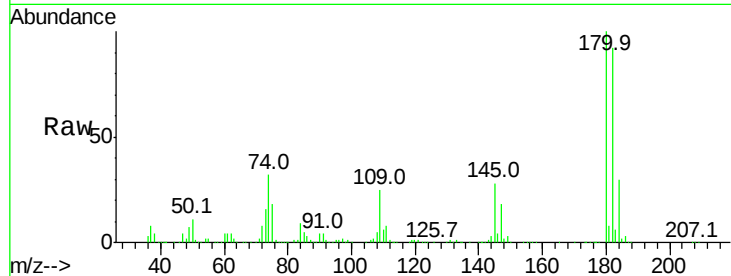




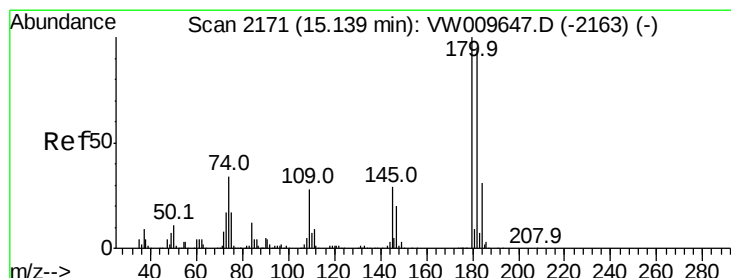
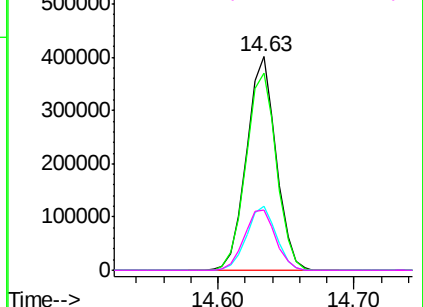
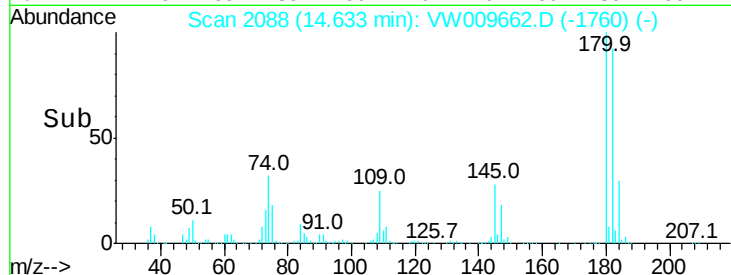
#67
 1,3,5-Trichlorobenzene
 Concen: 49.735 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. 0.00 min
 Lab File: VW009662.D
 Acq: 03 Apr 2019 13:48

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD05013

Tgt Ion:180 Resp: 607866
 Ion Ratio Lower Upper
 180 100
 182 95.5 76.1 114.1
 184 30.1 23.8 35.6
 145 29.9 23.4 35.2

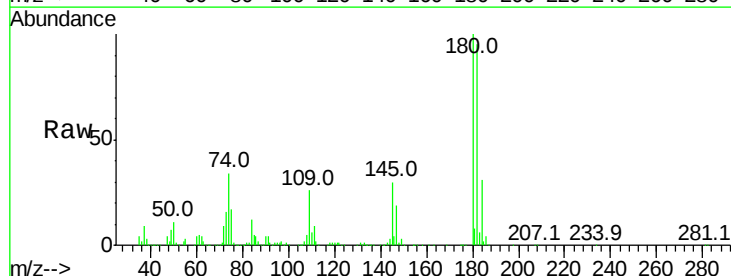


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

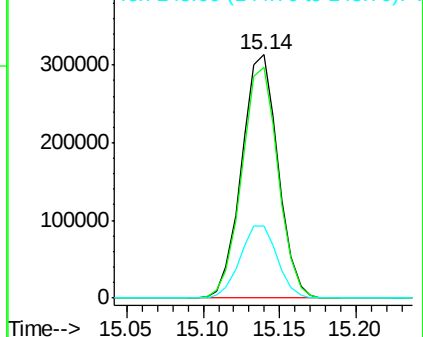
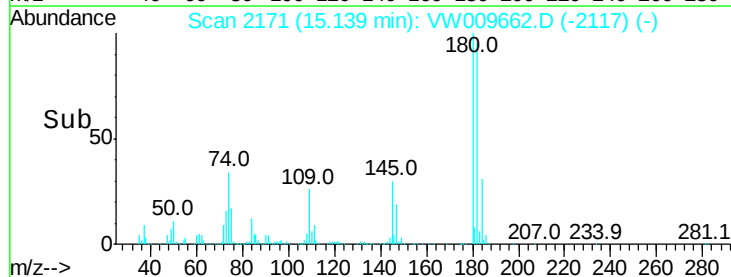


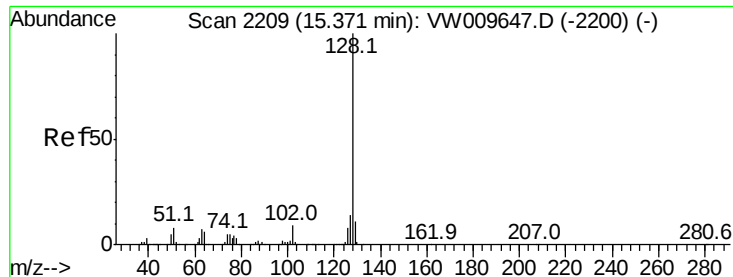
#68
 1,2,4-trichlorobenzene
 Concen: 50.427 ug/L
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.00 min
 Lab File: VW009662.D
 Acq: 03 Apr 2019 13:48

Tgt Ion:180 Resp: 517706
 Ion Ratio Lower Upper
 180 100
 182 94.7 75.5 113.3
 145 30.4 24.1 36.1



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: 54.362 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW009662.D

Acq: 03 Apr 2019 13:48

Instrument :

MSVOA_W

ClientSampleId :

VSTD05013

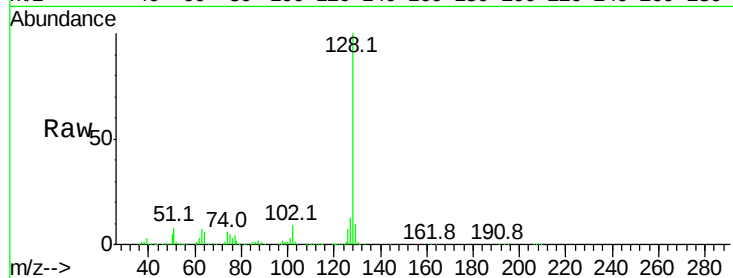
Tgt Ion:128 Resp: 1157078

Ion Ratio Lower Upper

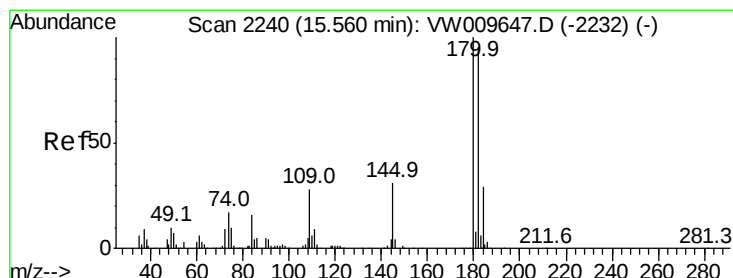
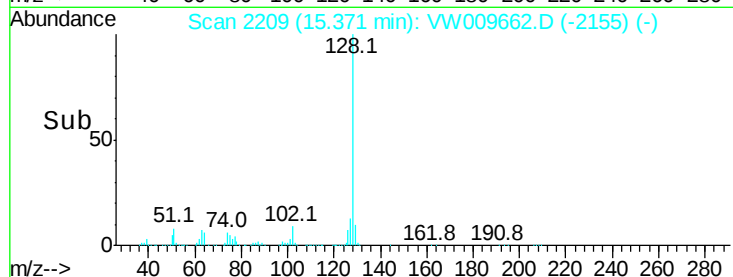
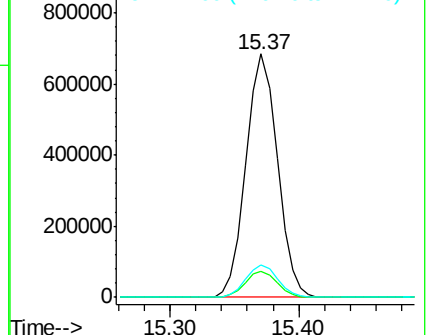
128 100

129 10.8 8.7 13.1

127 13.5 11.1 16.7



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



#70

1,2,3-Trichlorobenzene

Concen: 50.270 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. 0.00 min

Lab File: VW009662.D

Acq: 03 Apr 2019 13:48

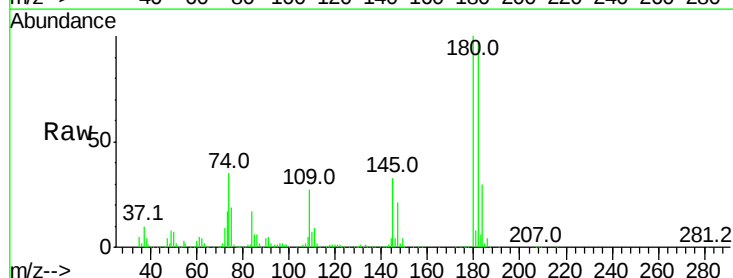
Tgt Ion:180 Resp: 483382

Ion Ratio Lower Upper

180 100

182 95.0 77.2 115.8

145 32.1 25.8 38.6



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

