

Data File : VW009277.D
Acq On : 20 Mar 2019 10:22
Operator : SY/VA
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD02514

Quant Time: Mar 21 10:17:59 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM031419S.M
Quant Title : VOC Analysis
QLast Update : Tue Mar 19 01:10:50 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	496802	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	459537	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	237426	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	154548	26.03	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	104.12%
7) Chloroethane-d5	2.89	69	147244	21.20	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	84.80%
10) 1,1-Dichloroethene-d2	4.01	63	329892	25.71	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	102.84%
20) 2-Butanone-d5	7.07	46	108346	44.13	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	88.26%
24) Chloroform-d	7.64	84	332248	24.51	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	98.04%
26) 1,2-Dichloroethane-d4	8.31	65	191103	23.40	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	93.60%
29) Benzene-d6	8.27	84	628424	24.80	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	99.20%
33) 1,2-Dichloropropane-d6	9.27	67	187626	24.65	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	98.60%
37) Toluene-d8	10.32	98	589309	25.15	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	100.60%
38) trans-1,3-Dichloropropene-	10.57	79	93298	24.41	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	97.64%
39) 2-Hexanone-d5	10.92	63	86775	47.07	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	94.14%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	177613	23.69	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	94.76%
61) 1,2-Dichlorobenzene-d4	13.86	152	224284	24.64	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	98.56%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	150918	23.060 ug/L	88
3) Chloromethane	2.21	50	158188	22.782 ug/L	98
5) Vinyl chloride	2.37	62	214923	30.072 ug/L	98
6) Bromomethane	2.78	94	148046	24.725 ug/L	99
8) Chloroethane	2.93	64	143108	24.202 ug/L	96
9) Trichlorofluoromethane	3.26	101	128931	22.838 ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	170335	26.127 ug/L	94
12) 1,1-Dichloroethene	4.03	96	169887	27.770 ug/L	96
13) Acetone	4.12	43	88939	44.173 ug/L	98
14) Carbon disulfide	4.38	76	486645	29.557 ug/L	99
15) Methyl Acetate	4.67	43	89913	22.732 ug/L	97
16) Methylene chloride	4.91	84	163731	22.600 ug/L	99
17) Methyl tert-butyl Ether	5.42	73	226551	26.172 ug/L	98
18) trans-1,2-Dichloroethene	5.42	96	171699	26.694 ug/L	98
19) 1,1-Dichloroethane	6.21	63	313964	26.771 ug/L	97
21) 2-Butanone	7.17	43	121989	43.880 ug/L	99
22) cis-1,2-Dichloroethene	7.16	96	185876	26.677 ug/L	99

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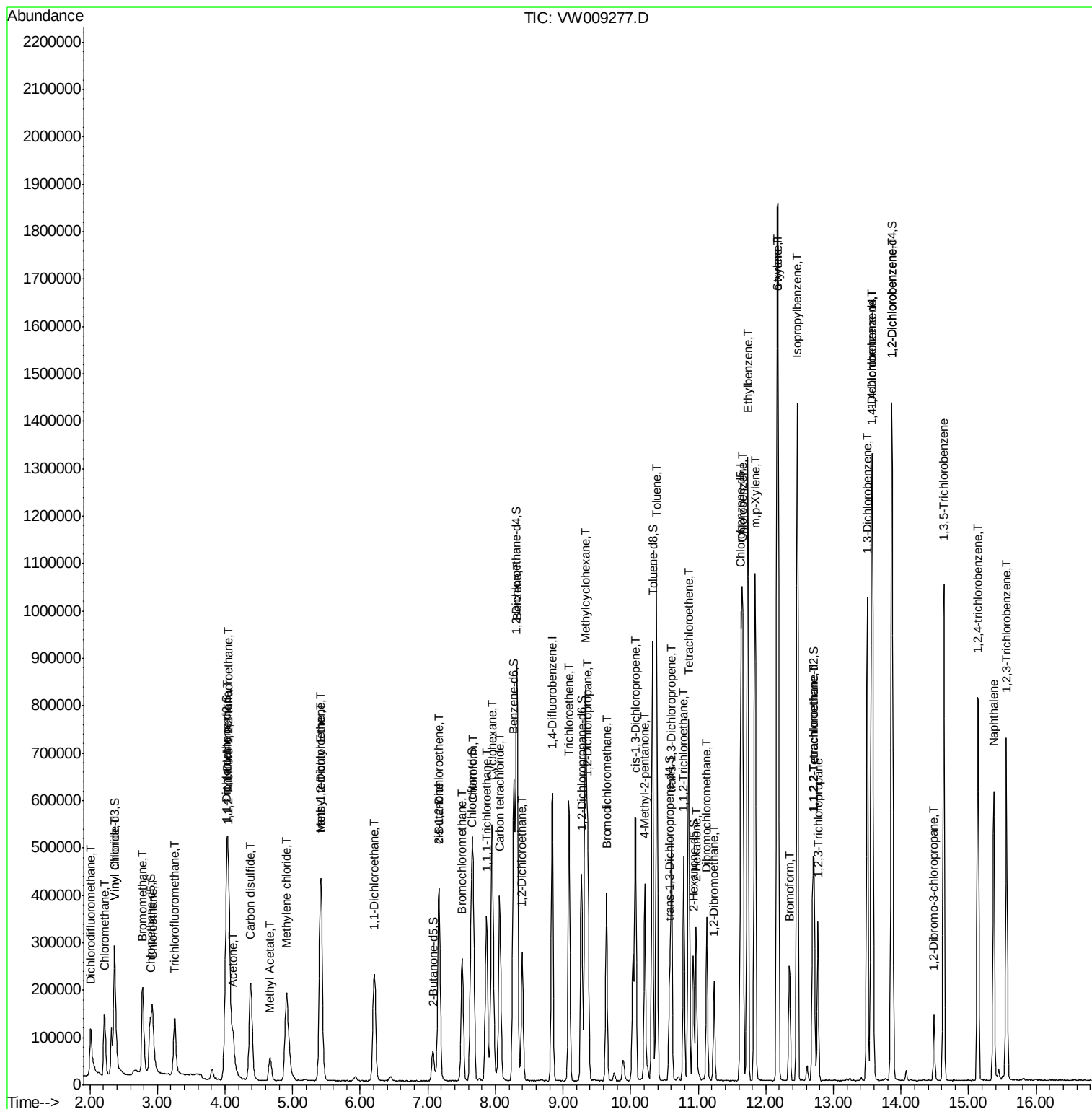
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	84844	25.388	ug/L	93
25) Chloroform	7.67	83	327712	26.683	ug/L	99
27) 1,2-Dichloroethane	8.40	62	233969	25.551	ug/L	100
30) Cyclohexane	7.95	56	300946	28.836	ug/L	100
31) 1,1,1-Trichloroethane	7.87	97	263129	28.669	ug/L	99
32) Carbon tetrachloride	8.06	117	267896	28.930	ug/L	98
34) Benzene	8.32	78	702071	27.912	ug/L	100
35) Trichloroethene	9.09	95	185967	27.747	ug/L	99
36) Methylcyclohexane	9.33	83	329148	28.386	ug/L	98
40) 1,2-Dichloropropane	9.37	63	174590	27.050	ug/L	99
41) Bromodichloromethane	9.64	83	240987	26.947	ug/L	98
42) cis-1,3-Dichloropropene	10.07	75	285775	27.185	ug/L	100
43) 4-Methyl-2-pentanone	10.21	43	276761	47.321	ug/L	99
44) Toluene	10.38	91	764127	27.786	ug/L	100
45) trans-1,3-Dichloropropene	10.60	75	243917	26.673	ug/L	97
46) 1,1,2-Trichloroethane	10.79	97	130750	25.392	ug/L	97
47) Tetrachloroethene	10.86	164	152754	26.974	ug/L	99
49) 2-Hexanone	10.97	43	207102	50.277	ug/L	100
50) Dibromochloromethane	11.13	129	166296	26.162	ug/L	97
51) 1,2-Dibromoethane	11.23	107	134578	25.781	ug/L	99
52) Chlorobenzene	11.66	112	477748	27.086	ug/L	97
53) Ethylbenzene	11.73	91	874602	28.287	ug/L	100
54) m,p-Xylene	11.84	106	329804	28.077	ug/L	95
55) o-xylene	12.16	106	316862	27.651	ug/L	98
56) Styrene	12.18	104	543587	27.802	ug/L	95
57) Isopropylbenzene	12.46	105	880283	28.676	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.71	83	173766	25.015	ug/L	97
59) 1,2,3-Trichloropropane	12.77	75	125808	24.404	ug/L	100
62) Bromoform	12.35	173	103404	25.776	ug/L	97
63) 1,3-Dichlorobenzene	13.50	146	386306	27.300	ug/L	98
64) 1,4-Dichlorobenzene	13.58	146	398076	27.210	ug/L	97
65) 1,2-Dichlorobenzene	13.87	146	362116	26.834	ug/L	99
66) 1,2-Dibromo-3-chloropropan	14.49	75	30823	23.306	ug/L	92
67) 1,3,5-Trichlorobenzene	14.63	180	298784	27.071	ug/L	99
68) 1,2,4-trichlorobenzene	15.14	180	251540	27.132	ug/L	100
69) Naphthalene	15.37	128	495485	25.779	ug/L	100
70) 1,2,3-Trichlorobenzene	15.56	180	230323	26.525	ug/L	98

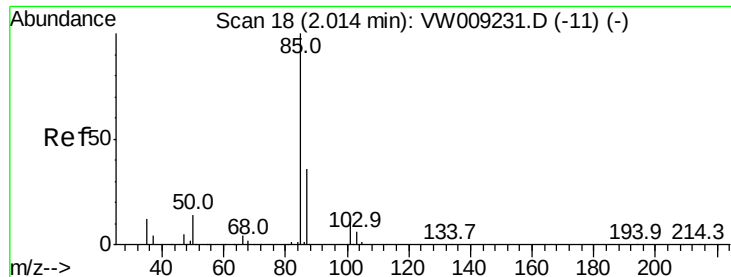
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 23.060 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW009277.D

Acq: 20 Mar 2019 10:22

Instrument :

MSVOA_W

ClientSampleId :

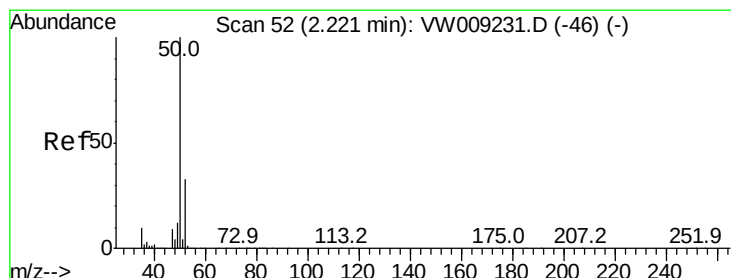
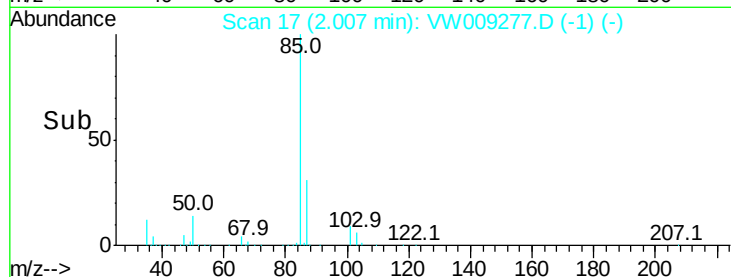
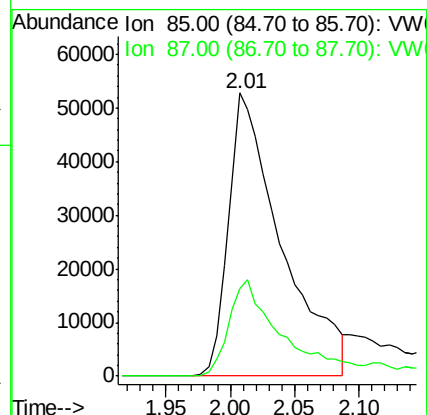
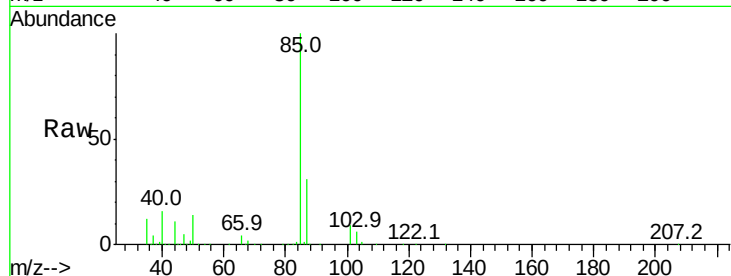
VSTD02514

Tgt Ion: 85 Resp: 150918

Ion Ratio Lower Upper

85 100

87 34.4 19.5 36.3



#3

Chloromethane

Concen: 22.782 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.01 min

Lab File: VW009277.D

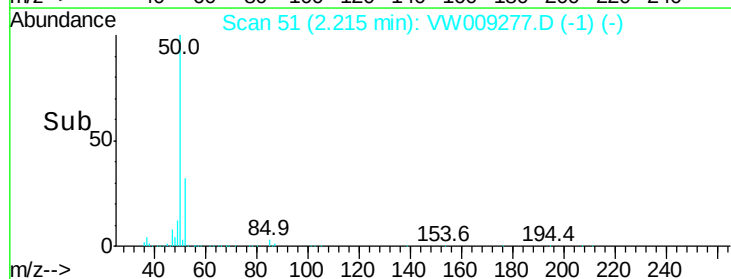
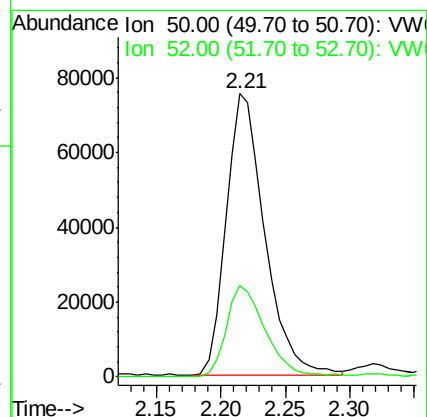
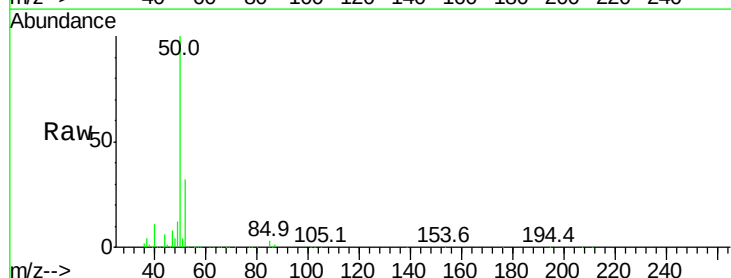
Acq: 20 Mar 2019 10:22

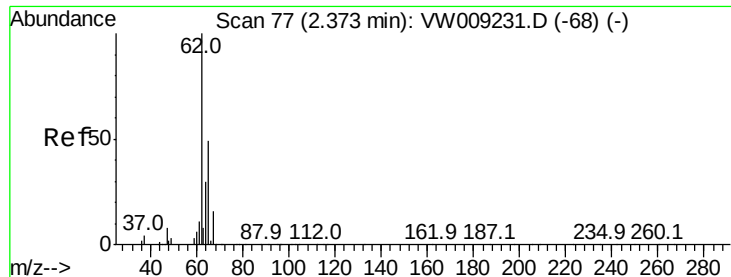
Tgt Ion: 50 Resp: 158188

Ion Ratio Lower Upper

50 100

52 32.2 21.6 40.2





#5

Vinyl chloride

Concen: 30.072 ug/L

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW009277.D

Acq: 20 Mar 2019 10:22

Instrument :

MSVOA_W

ClientSampleId :

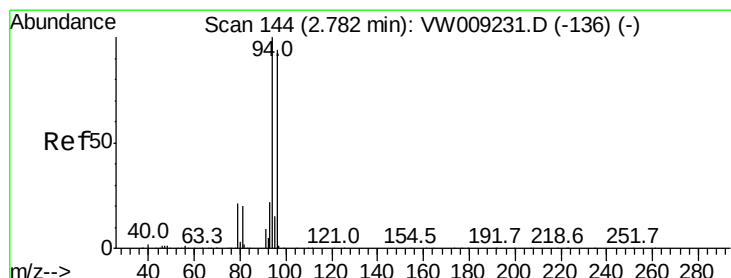
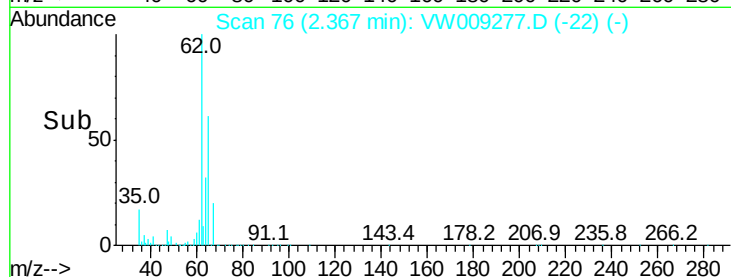
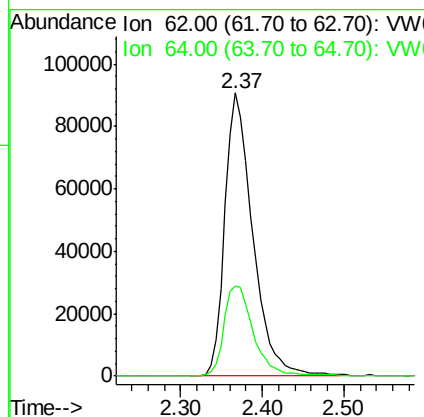
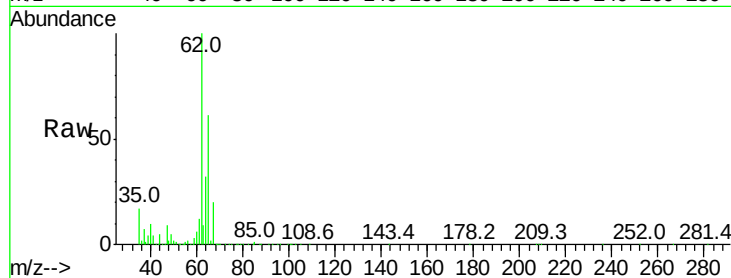
VSTD02514

Tgt Ion: 62 Resp: 214923

Ion Ratio Lower Upper

62 100

64 31.7 23.0 42.6



#6

Bromomethane

Concen: 24.725 ug/L

RT: 2.78 min Scan# 144

Delta R.T. 0.00 min

Lab File: VW009277.D

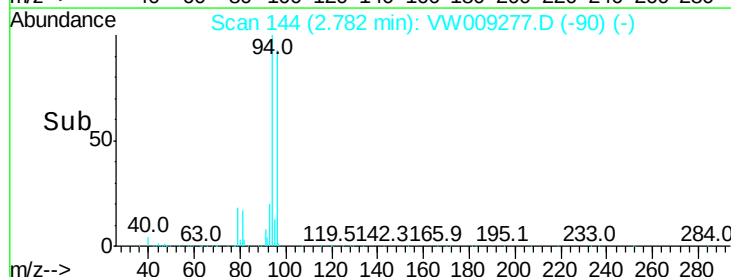
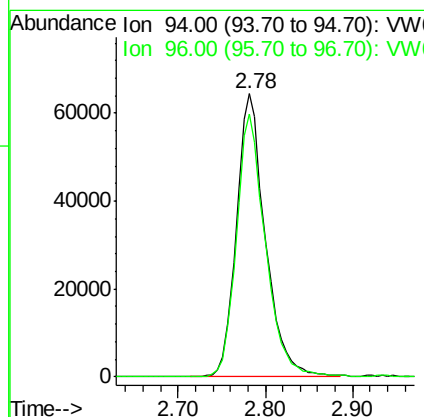
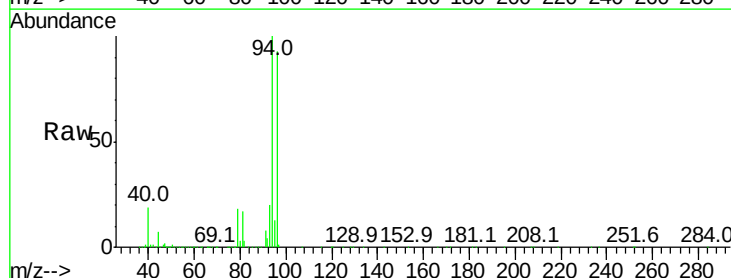
Acq: 20 Mar 2019 10:22

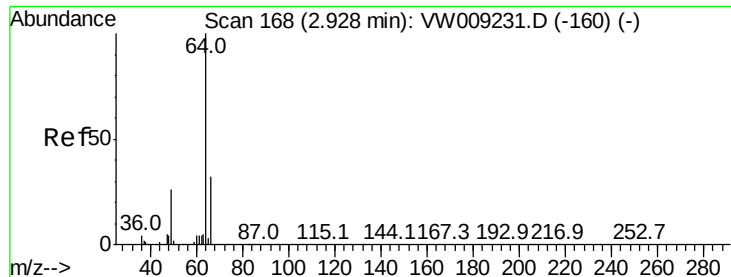
Tgt Ion: 94 Resp: 148046

Ion Ratio Lower Upper

94 100

96 92.9 9.4 178.4





#8

Chloroethane

Concen: 24.202 ug/L

RT: 2.93 min Scan# 168

Delta R.T. 0.00 min

Lab File: VW009277.D

Acq: 20 Mar 2019 10:22

Instrument :

MSVOA_W

ClientSampleId :

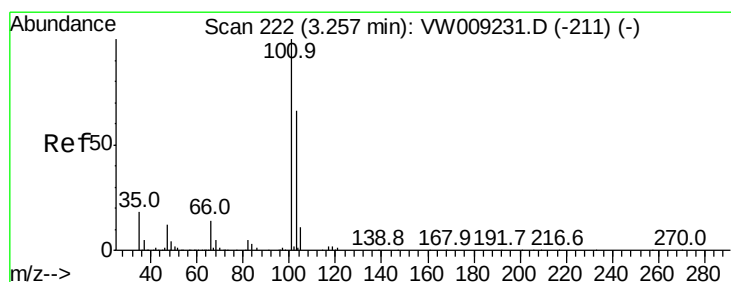
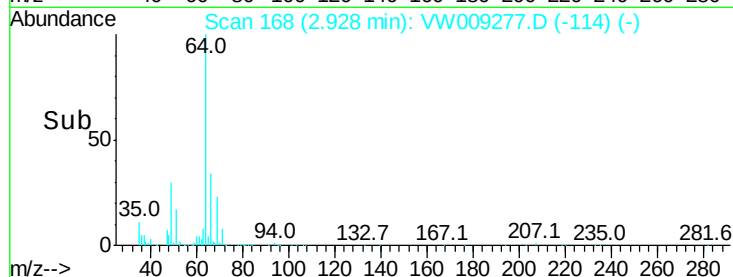
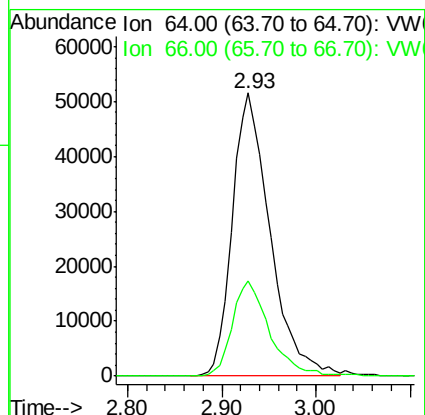
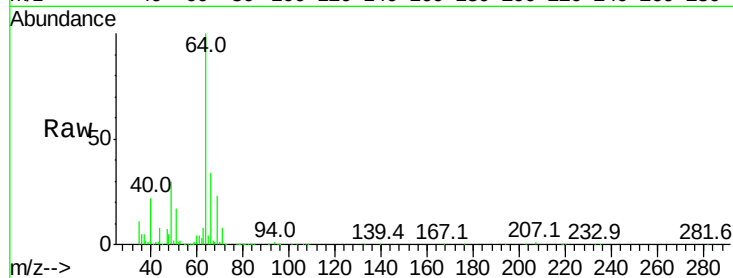
VSTD02514

Tgt Ion: 64 Resp: 143108

Ion Ratio Lower Upper

64 100

66 33.7 25.1 46.7



#9

Trichlorofluoromethane

Concen: 22.838 ug/L

RT: 3.26 min Scan# 222

Delta R.T. 0.00 min

Lab File: VW009277.D

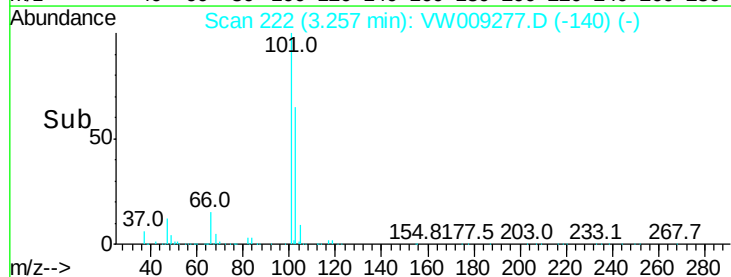
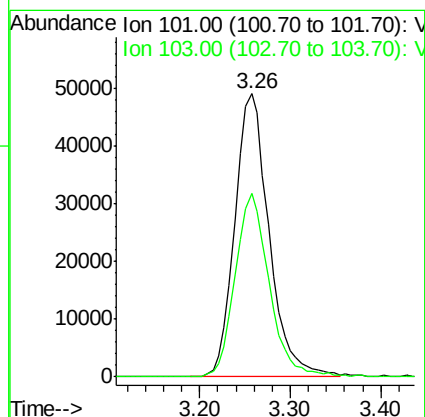
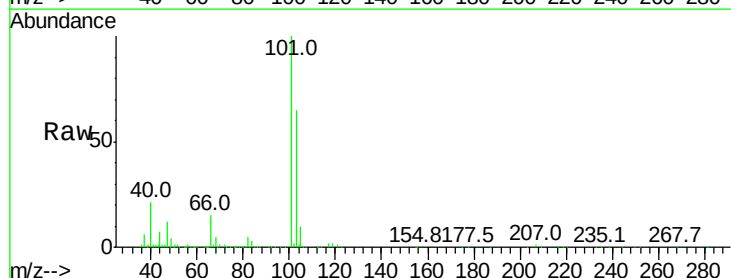
Acq: 20 Mar 2019 10:22

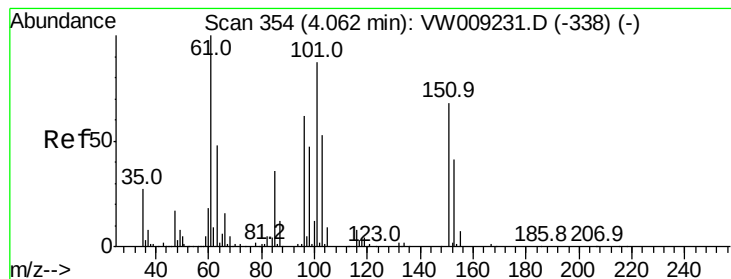
Tgt Ion: 101 Resp: 128931

Ion Ratio Lower Upper

101 100

103 63.8 45.0 83.6





#11

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

Concen: 26.127 ug/L

RT: 4.06 min Scan# 353

Delta R.T. -0.00 min

Lab File: VW009277.D

Acq: 20 Mar 2019 10:22

Instrument :

MSVOA_W

ClientSampled :

VSTD02514

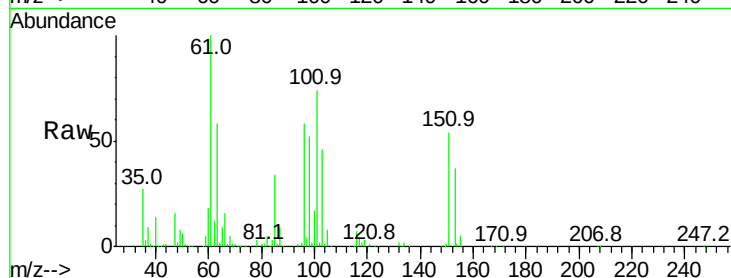
Tgt Ion: 101 Resp: 170335

Ion Ratio Lower Upper

101 100

85 45.5 32.6 48.8

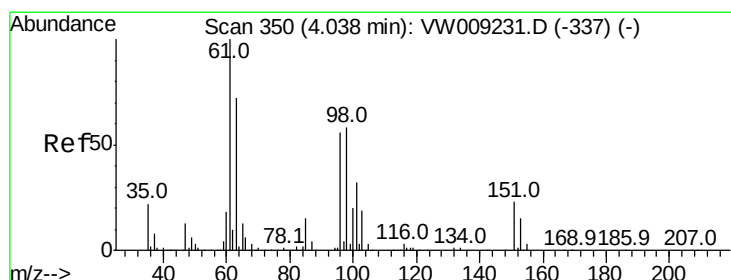
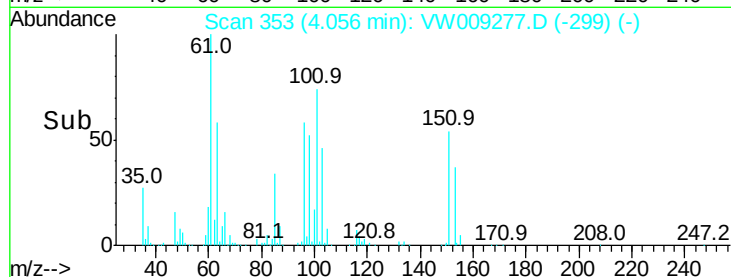
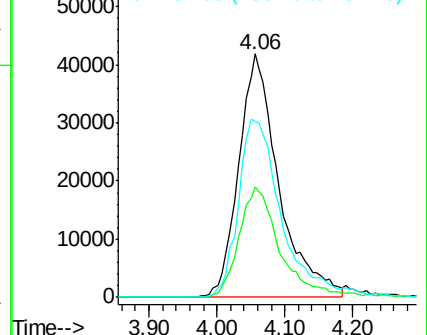
151 74.2 63.3 94.9



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: 27.770 ug/L

RT: 4.03 min Scan# 349

Delta R.T. -0.01 min

Lab File: VW009277.D

Acq: 20 Mar 2019 10:22

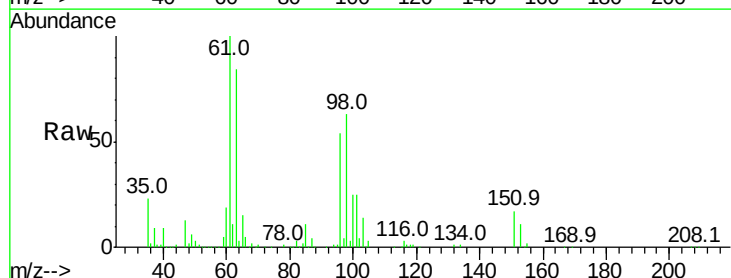
Tgt Ion: 96 Resp: 169887

Ion Ratio Lower Upper

96 100

61 184.7 129.4 240.2

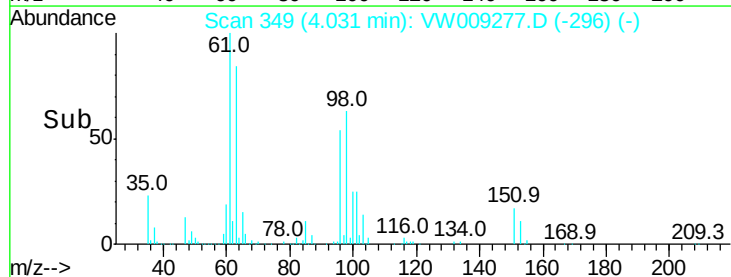
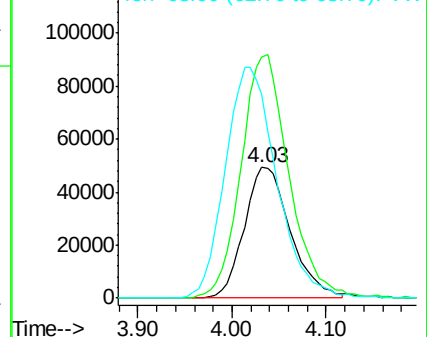
63 155.7 116.8 217.0

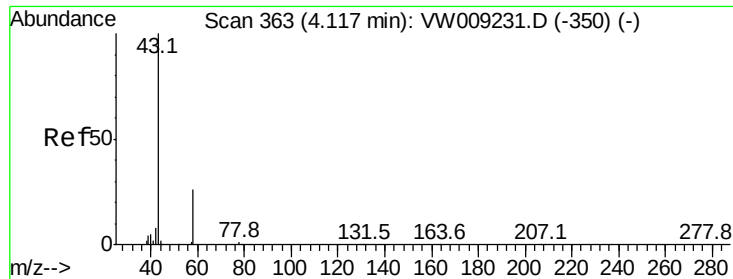


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 44.173 ug/L

RT: 4.12 min Scan# 364

Delta R.T. 0.00 min

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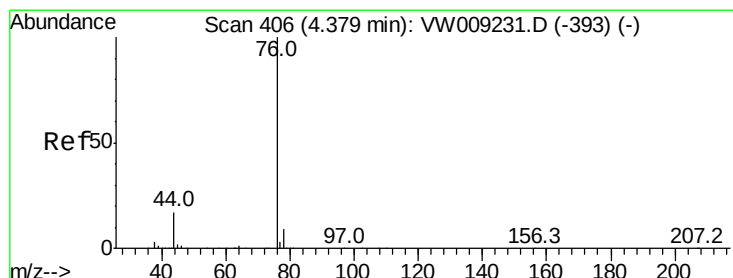
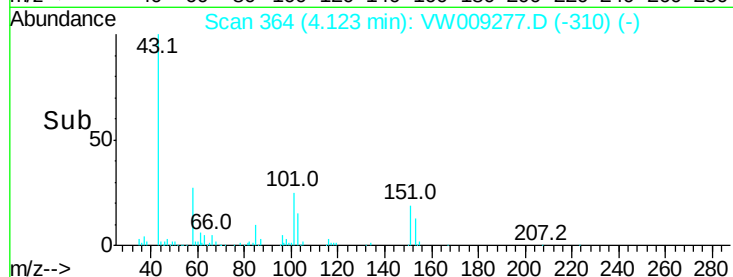
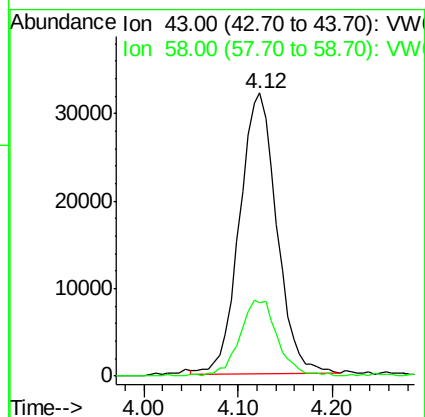
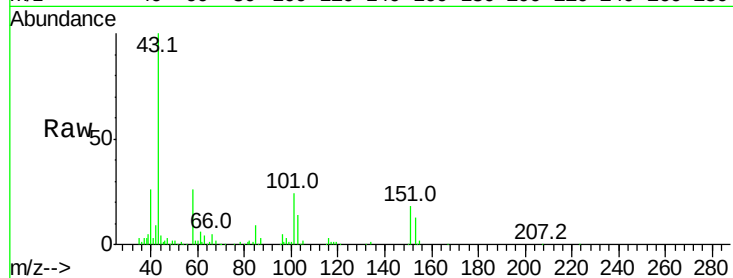
VSTD02514

Tgt Ion: 43 Resp: 88939

Ion Ratio Lower Upper

43 100

58 26.8 0.0 56.2



#14

Carbon disulfide

Concen: 29.557 ug/L

RT: 4.38 min Scan# 406

Delta R.T. 0.00 min

Lab File: VW009277.D

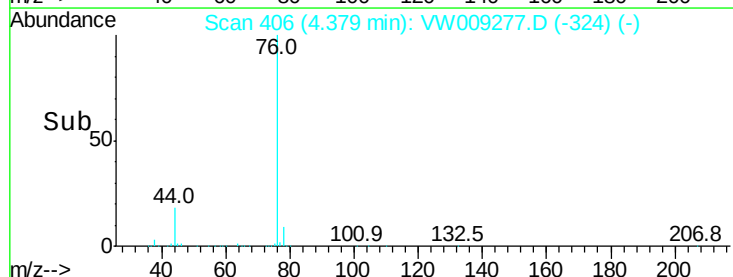
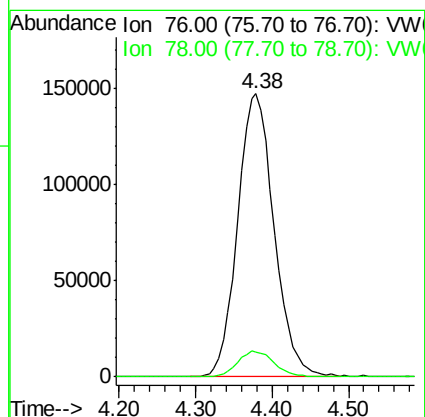
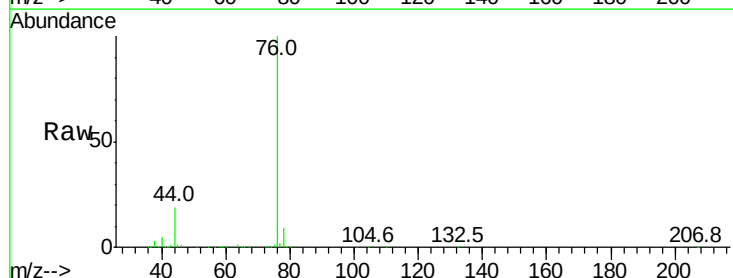
Acq: 20 Mar 2019 10:22

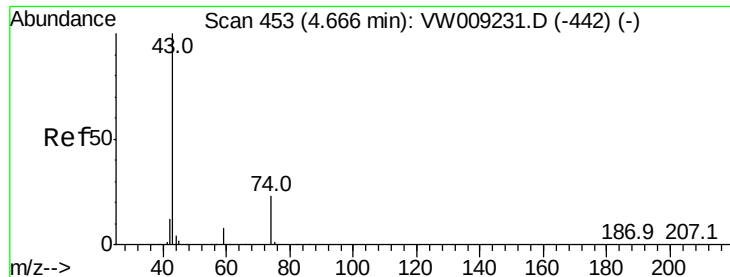
Tgt Ion: 76 Resp: 486645

Ion Ratio Lower Upper

76 100

78 8.8 7.3 10.9

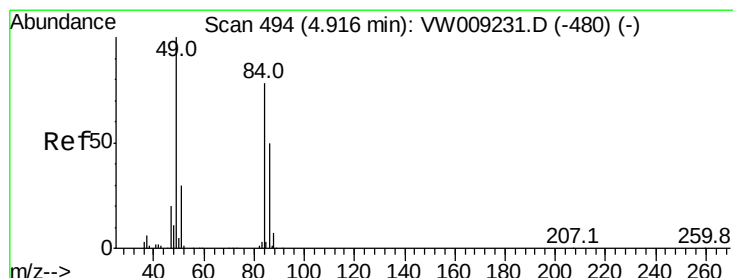
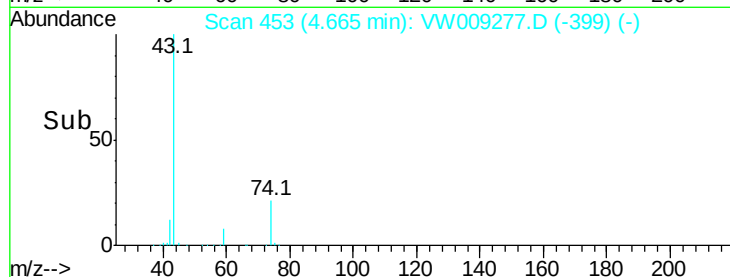
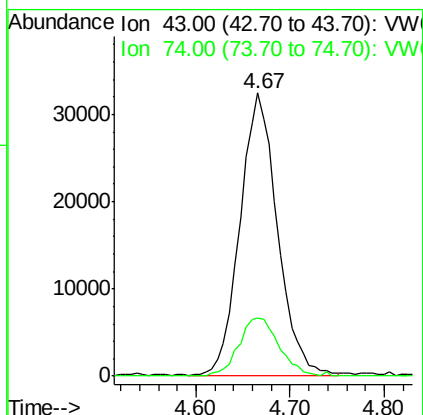
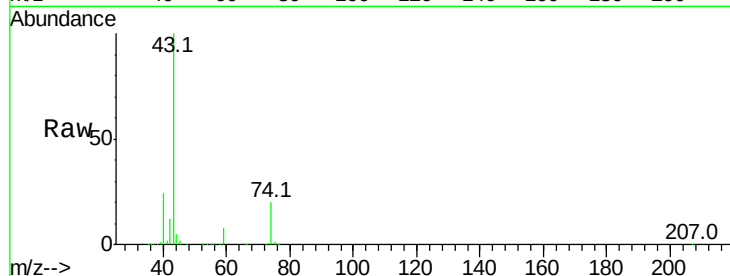




#15
Methyl Acetate
Concen: 22.732 ug/L
RT: 4.67 min Scan# 453
Delta R.T. 0.00 min
Lab File: VW009277.D
Acq: 20 Mar 2019 10:22

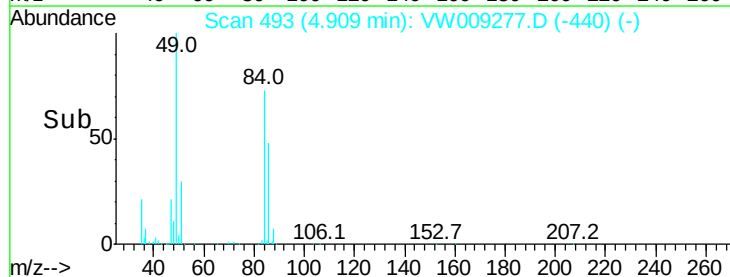
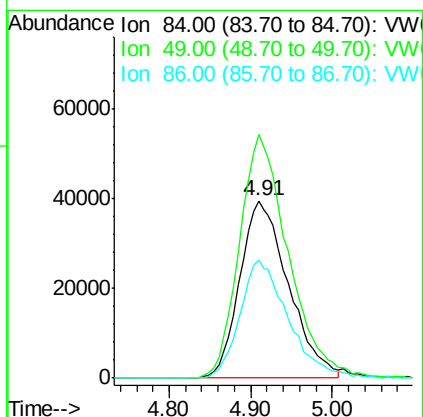
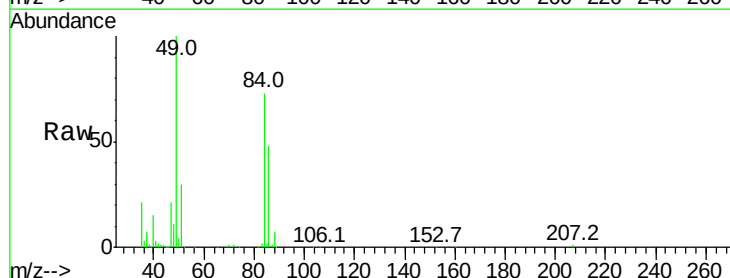
Instrument :
MSVOA_W
ClientSampleId :
VSTD02514

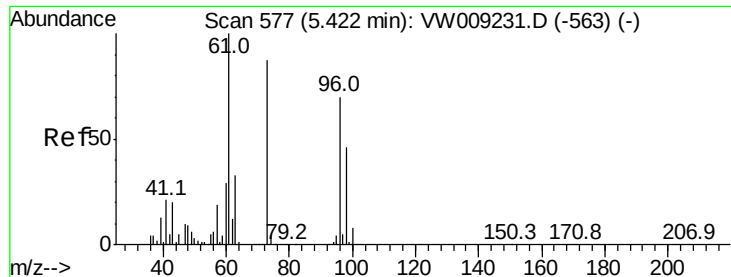
Tgt Ion: 43 Resp: 89913
Ion Ratio Lower Upper
43 100
74 22.2 16.7 25.1



#16
Methylene chloride
Concen: 22.600 ug/L
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW009277.D
Acq: 20 Mar 2019 10:22

Tgt Ion: 84 Resp: 163731
Ion Ratio Lower Upper
84 100
49 137.2 96.0 178.2
86 66.4 44.4 82.5

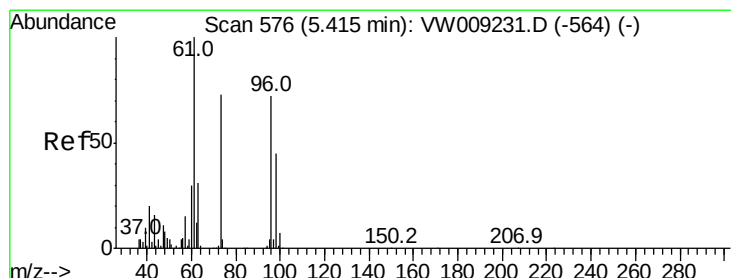
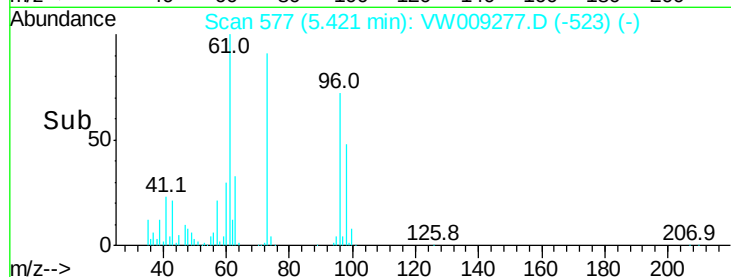
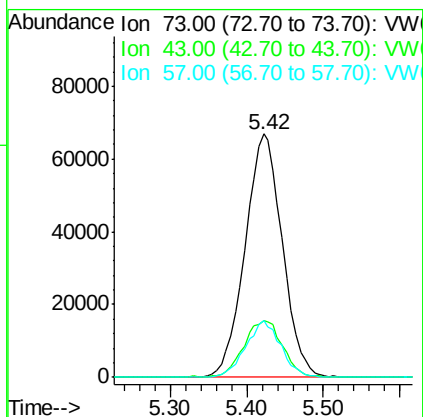
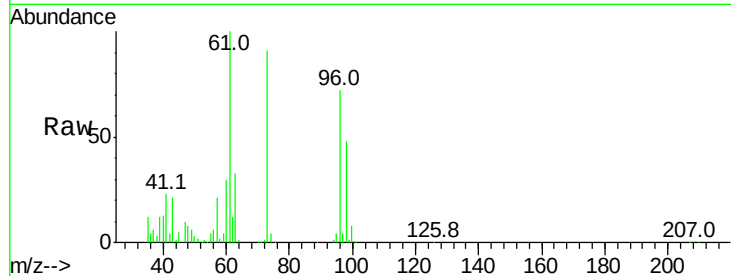




#17
Methyl tert-butyl Ether
Concen: 26.172 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW009277.D
Acq: 20 Mar 2019 10:22

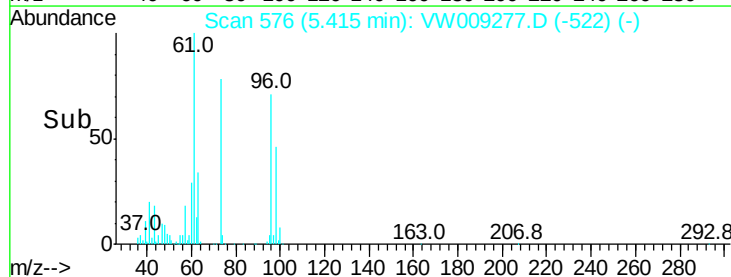
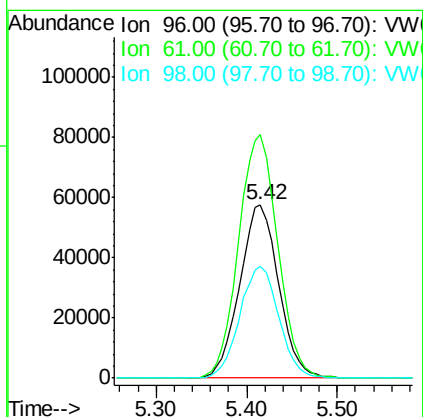
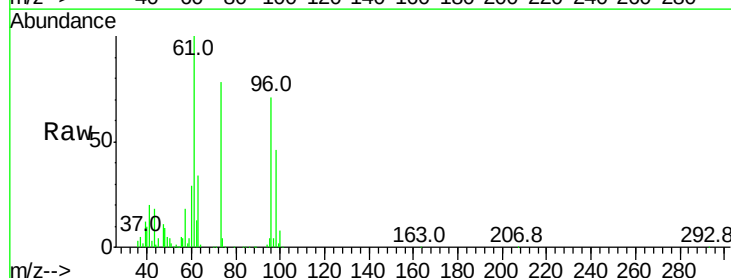
Instrument :
MSVOA_W
ClientSampleId :
VSTD02514

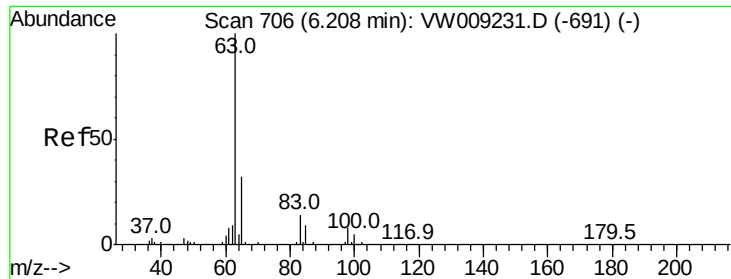
Tgt Ion: 73 Resp: 226551
Ion Ratio Lower Upper
73 100
43 24.4 18.2 27.4
57 21.9 17.8 26.8



#18
trans-1,2-Dichloroethene
Concen: 26.694 ug/L
RT: 5.42 min Scan# 576
Delta R.T. 0.00 min
Lab File: VW009277.D
Acq: 20 Mar 2019 10:22

Tgt Ion: 96 Resp: 171699
Ion Ratio Lower Upper
96 100
61 140.3 96.7 179.5
98 64.4 43.8 81.4

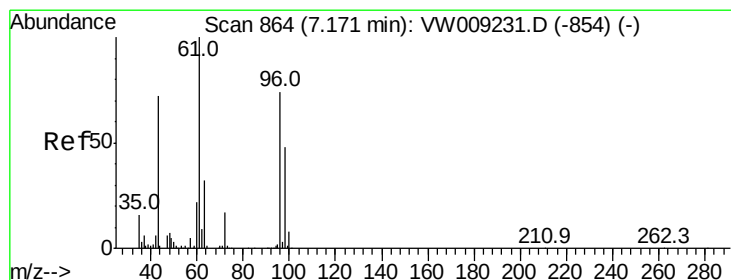
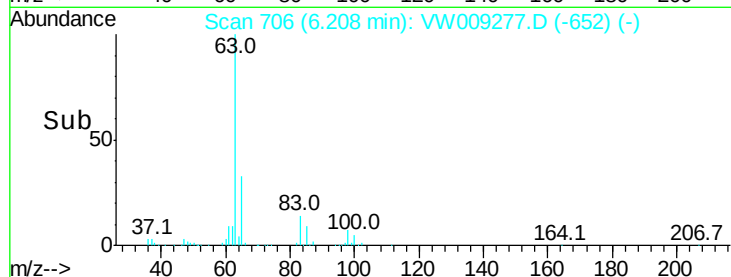
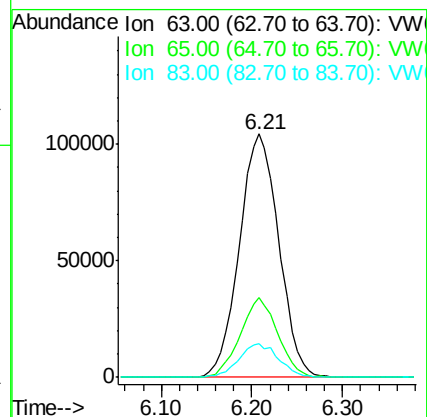
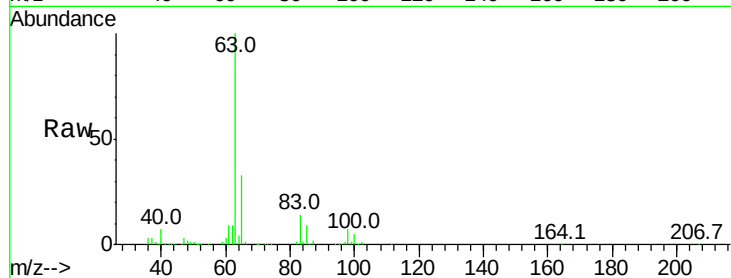




#19
 1,1-Dichloroethane
 Concen: 26.771 ug/L
 RT: 6.21 min Scan# 706
 Delta R.T. -0.00 min
 Lab File: VW009277.D
 Acq: 20 Mar 2019 10:22

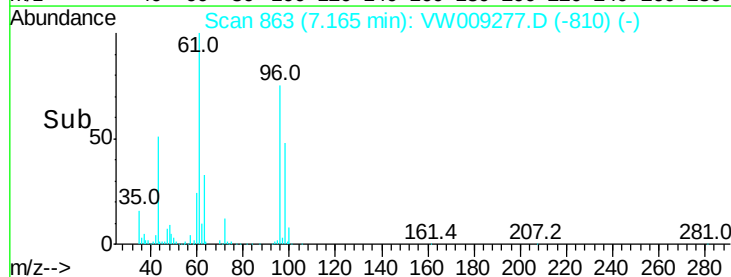
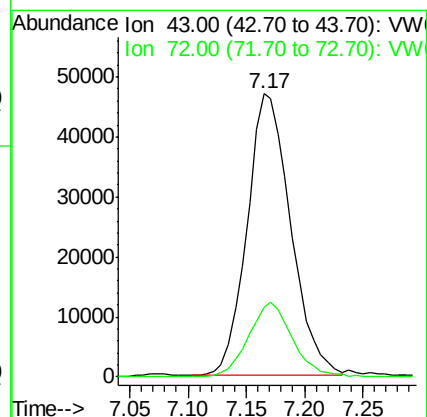
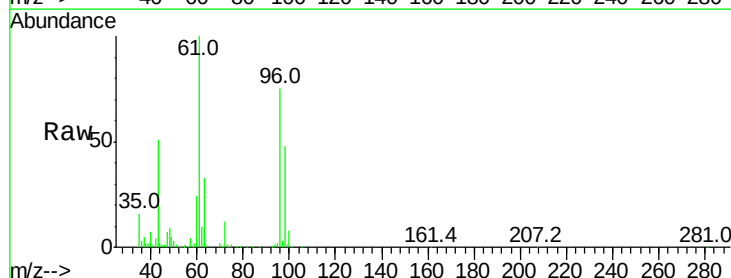
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02514

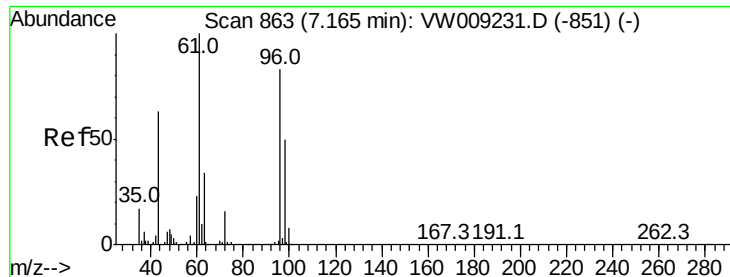
Tgt Ion: 63 Resp: 313964
 Ion Ratio Lower Upper
 63 100
 65 32.8 21.6 40.0
 83 13.7 10.1 18.7



#21
 2-Butanone
 Concen: 43.880 ug/L
 RT: 7.17 min Scan# 863
 Delta R.T. -0.01 min
 Lab File: VW009277.D
 Acq: 20 Mar 2019 10:22

Tgt Ion: 43 Resp: 121989
 Ion Ratio Lower Upper
 43 100
 72 26.6 13.1 39.1



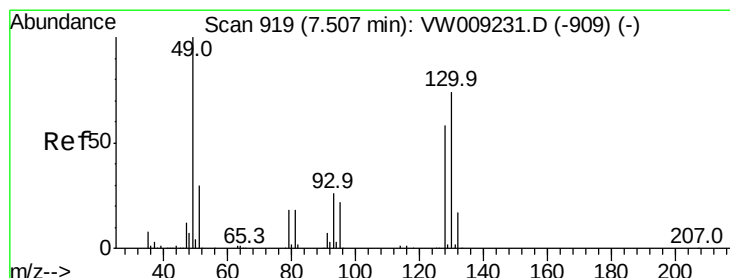
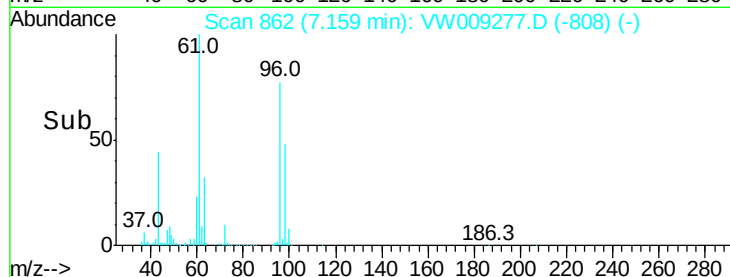
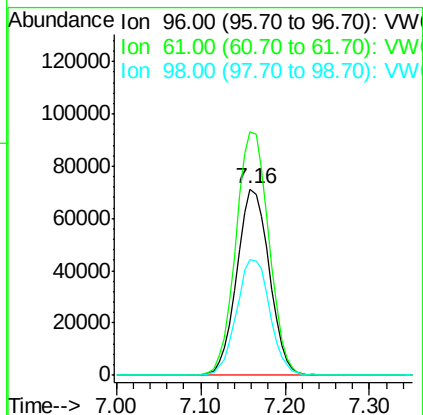
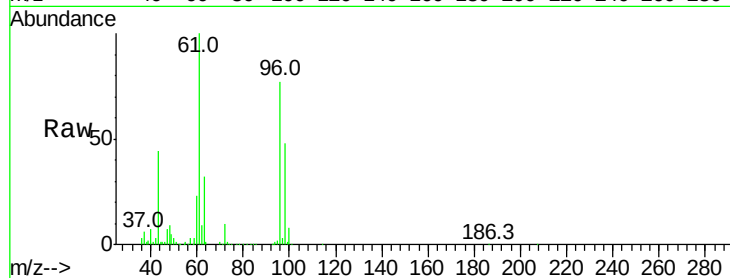


#22

cis-1,2-Dichloroethene
 Concen: 26.677 ug/L
 RT: 7.16 min Scan# 862
 Delta R.T. -0.00 min
 Lab File: VW009277.D
 Acq: 20 Mar 2019 10:22

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02514

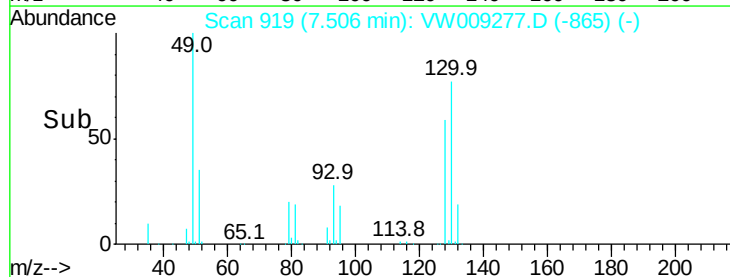
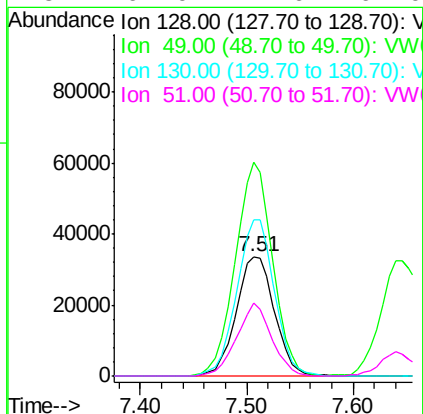
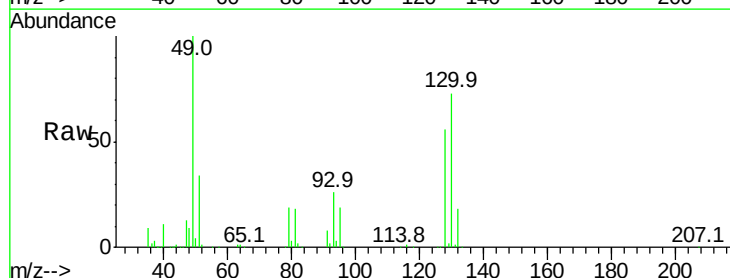
Tgt Ion: 96 Resp: 185876
 Ion Ratio Lower Upper
 96 100
 61 130.5 90.6 168.3
 98 62.2 44.0 81.8

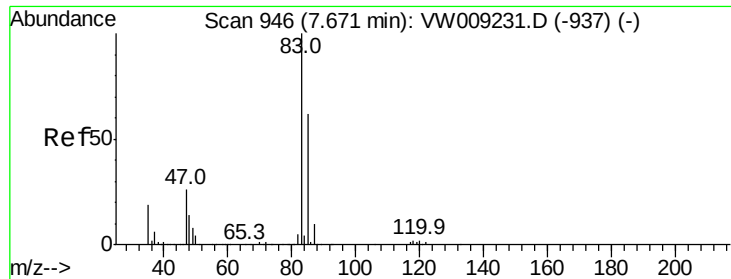


#23

Bromochloromethane
 Concen: 25.388 ug/L
 RT: 7.51 min Scan# 919
 Delta R.T. -0.00 min
 Lab File: VW009277.D
 Acq: 20 Mar 2019 10:22

Tgt Ion: 128 Resp: 84844
 Ion Ratio Lower Upper
 128 100
 49 179.2 118.4 219.8
 130 131.5 87.8 163.2
 51 61.0 44.6 67.0





#25

Chloroform

Concen: 26.683 ug/L

RT: 7.67 min Scan# 946

Delta R.T. 0.00 min

Lab File: VW009277.D

Acq: 20 Mar 2019 10:22

Instrument :

MSVOA_W

ClientSampleId :

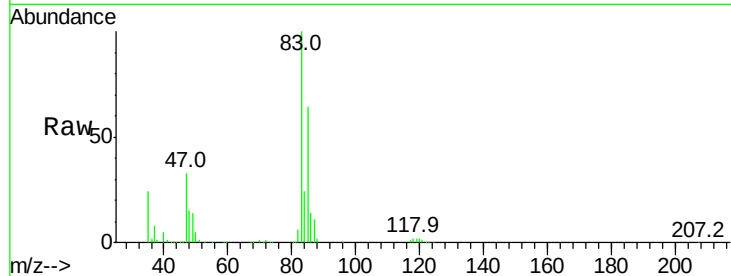
VSTD02514

Tgt Ion: 83 Resp: 327712

Ion Ratio Lower Upper

83 100

85 65.0 46.0 85.4



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

7.67

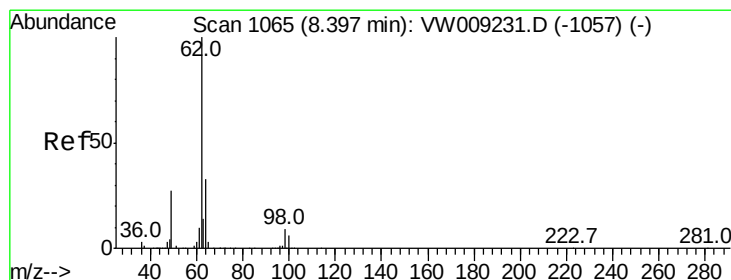
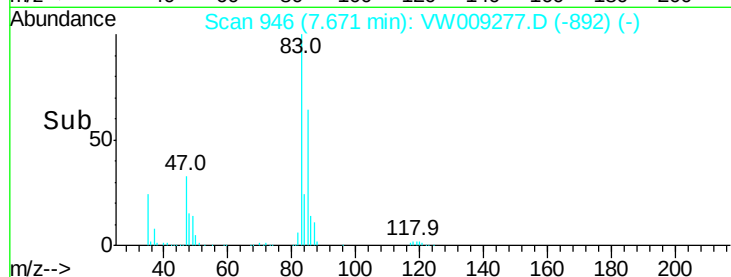
150000

100000

50000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#27

1,2-Dichloroethane

Concen: 25.551 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VW009277.D

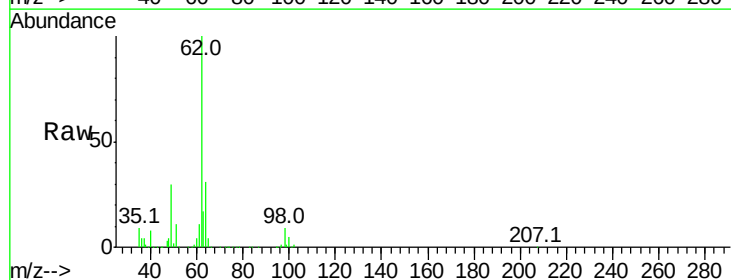
Acq: 20 Mar 2019 10:22

Tgt Ion: 62 Resp: 233969

Ion Ratio Lower Upper

62 100

98 8.9 7.3 10.9



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 98.00 (97.70 to 98.70): VW

8.40

120000

100000

80000

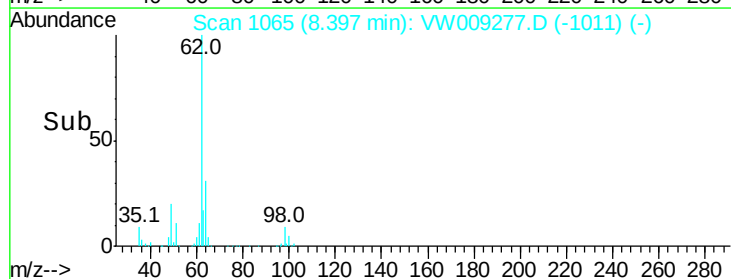
60000

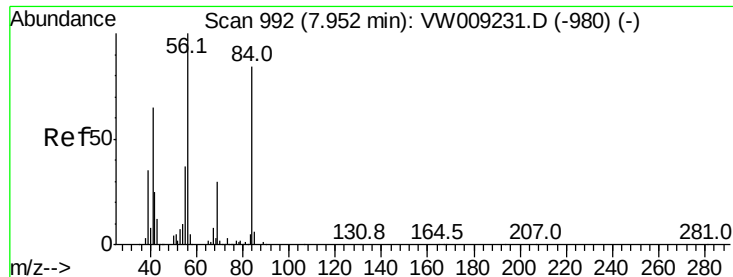
40000

20000

0

Time--> 8.30 8.35 8.40 8.45

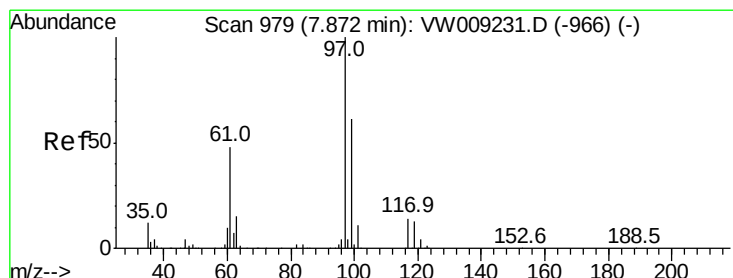
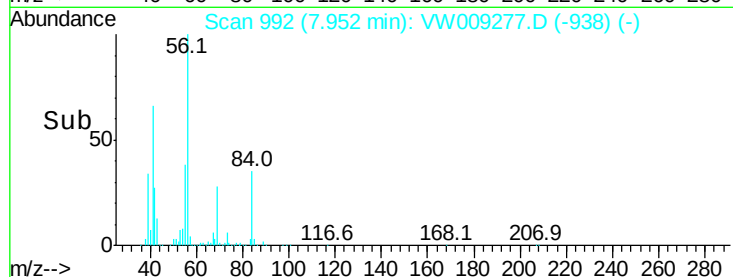
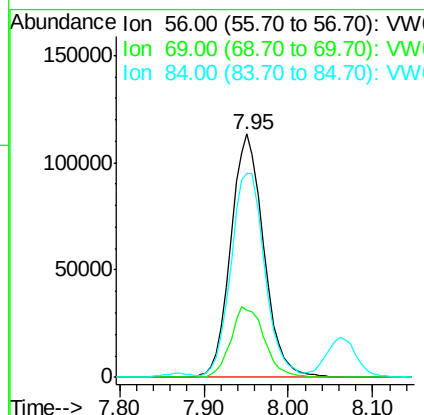
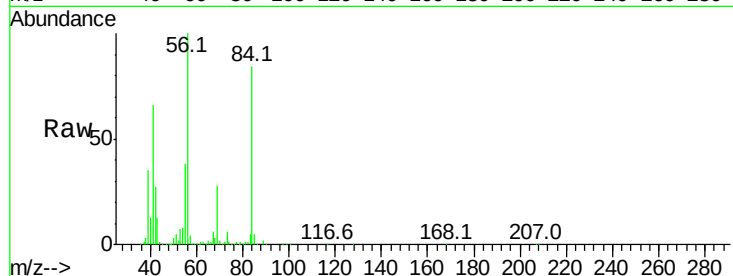




#30
Cyclohexane
Concen: 28.836 ug/L
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW009277.D
Acq: 20 Mar 2019 10:22

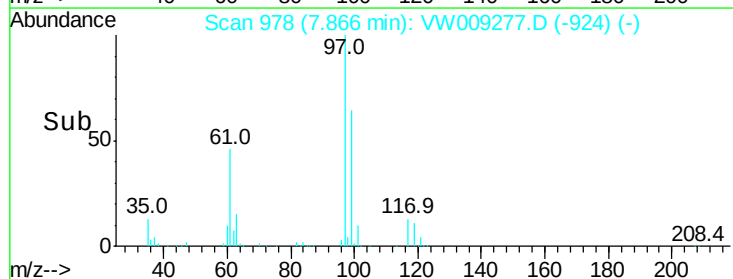
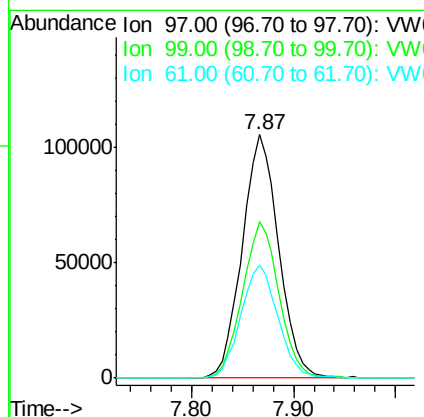
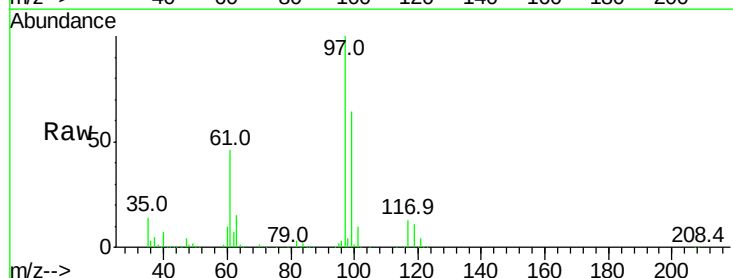
Instrument :
MSVOA_W
ClientSampled :
VSTD02514

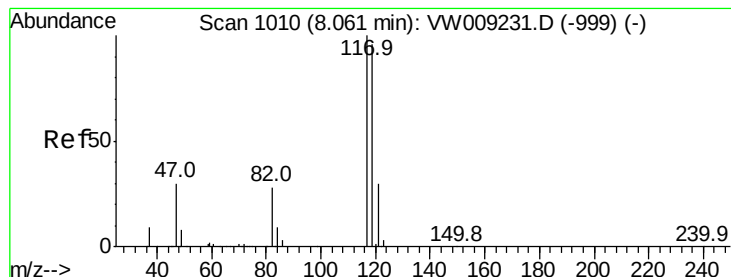
Tgt Ion	Ratio	Lower	Upper
56	100		
69	29.6	24.0	36.0
84	86.1	69.2	103.8



#31
1,1,1-Trichloroethane
Concen: 28.669 ug/L
RT: 7.87 min Scan# 978
Delta R.T. 0.00 min
Lab File: VW009277.D
Acq: 20 Mar 2019 10:22

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.2	76.8
61	47.2	38.4	57.6





#32

Carbon tetrachloride

Concen: 28.930 ug/L

RT: 8.06 min Scan# 1010

Delta R.T. 0.00 min

Lab File: VW009277.D

Acq: 20 Mar 2019 10:22

Instrument :

MSVOA_W

ClientSampleId :

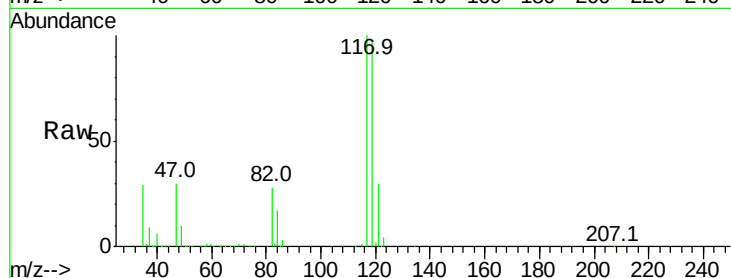
VSTD02514

Tgt Ion:117 Resp: 267896

Ion Ratio Lower Upper

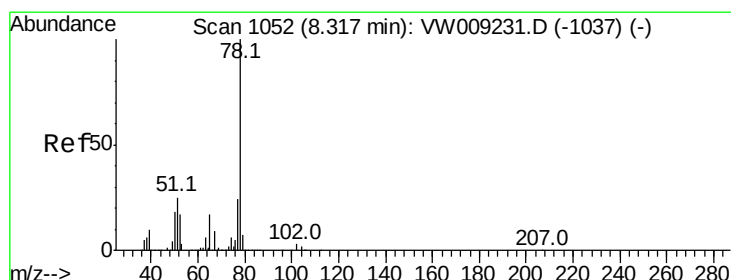
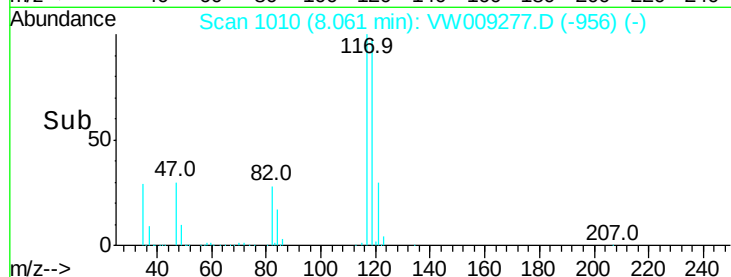
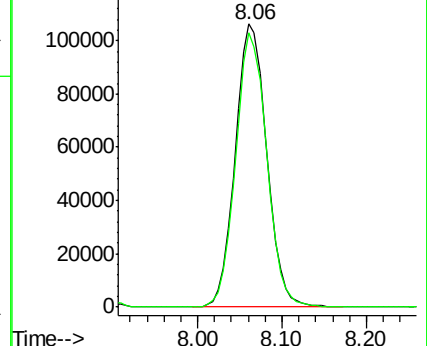
117 100

119 95.8 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: 27.912 ug/L

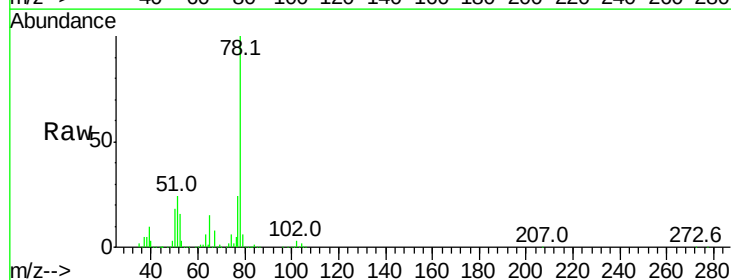
RT: 8.32 min Scan# 1052

Delta R.T. 0.00 min

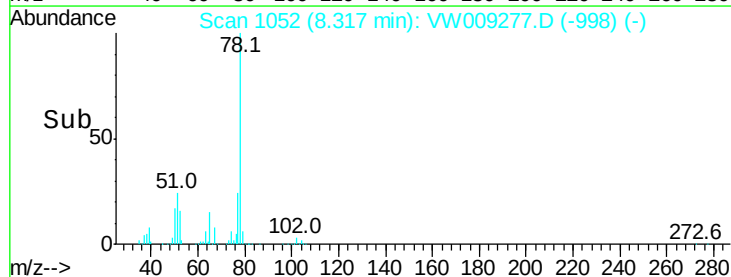
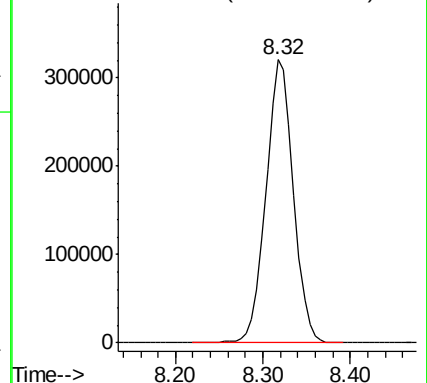
Lab File: VW009277.D

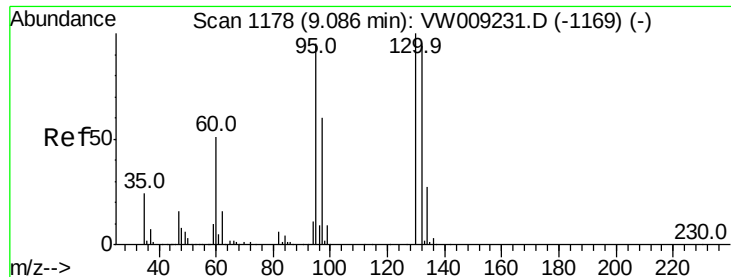
Acq: 20 Mar 2019 10:22

Tgt Ion: 78 Resp: 702071



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 27.747 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. -0.01 min

Lab File: VW009277.D

Acq: 20 Mar 2019 10:22

Instrument :

MSVOA_W

ClientSampleId :

VSTD02514

Tgt Ion: 95 Resp: 185967

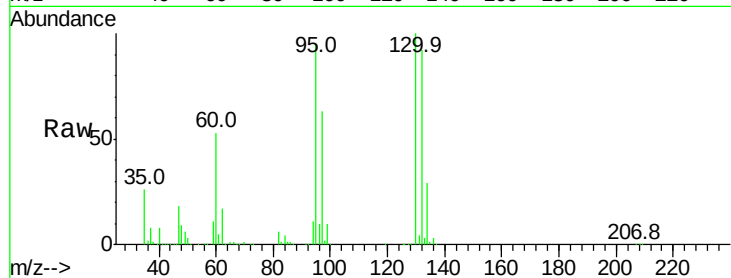
Ion Ratio Lower Upper

95 100

97 63.1 44.7 82.9

132 97.8 69.0 128.2

130 103.1 72.7 134.9

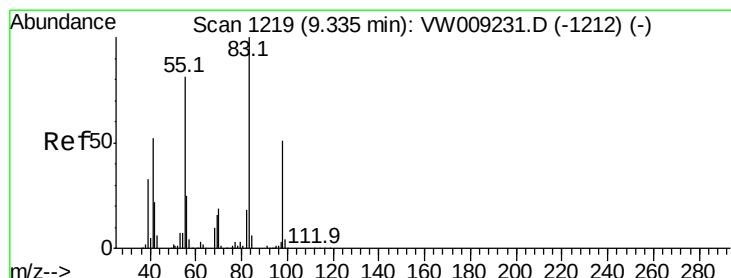
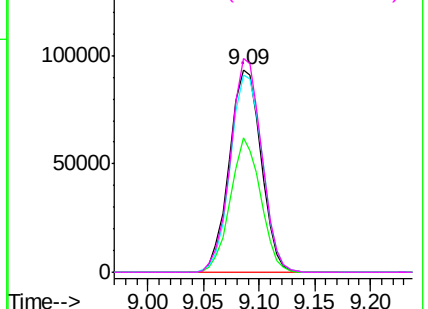
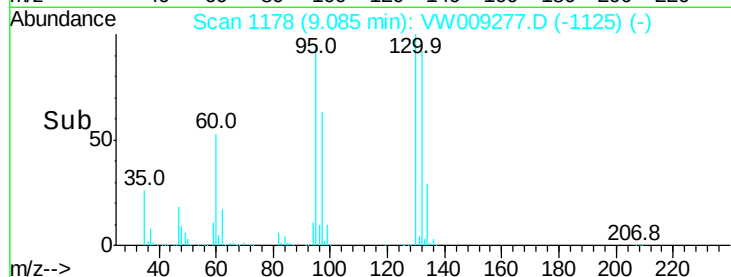


Abundance Ion 95.00 (94.70 to 95.70): VW

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: 28.386 ug/L

RT: 9.33 min Scan# 1218

Delta R.T. -0.01 min

Lab File: VW009277.D

Acq: 20 Mar 2019 10:22

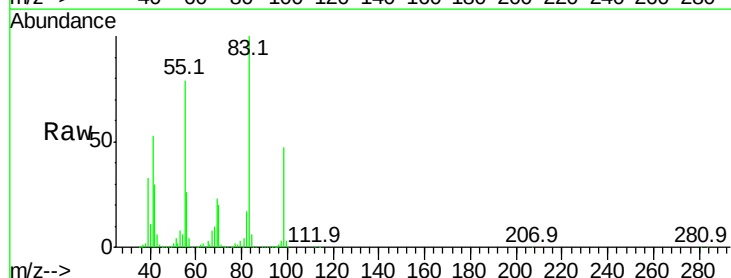
Tgt Ion: 83 Resp: 329148

Ion Ratio Lower Upper

83 100

55 77.9 63.5 95.3

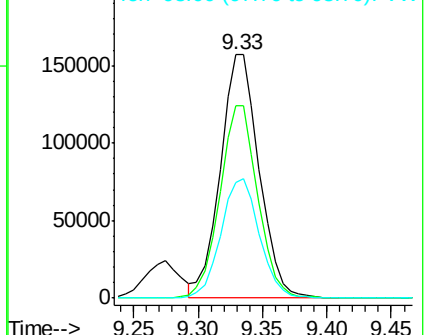
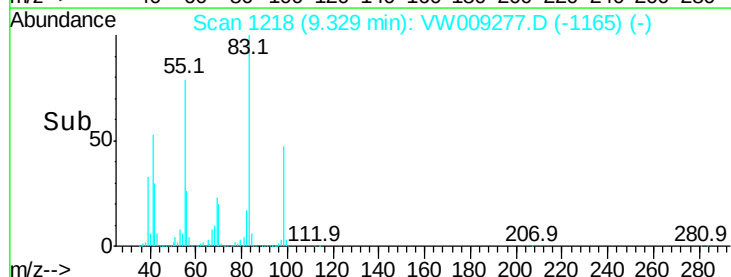
98 49.0 39.8 59.8

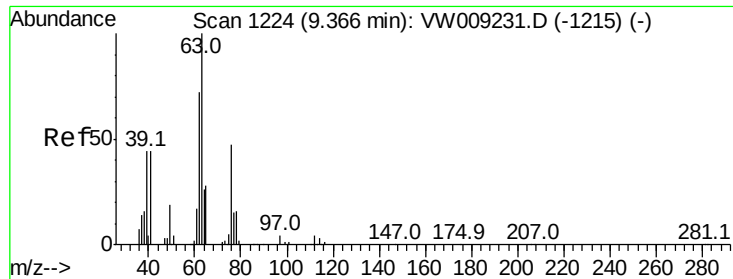


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#40

1,2-Dichloropropane

Concen: 27.050 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW009277.D

Acq: 20 Mar 2019 10:22

Instrument :

MSVOA_W

ClientSampleId :

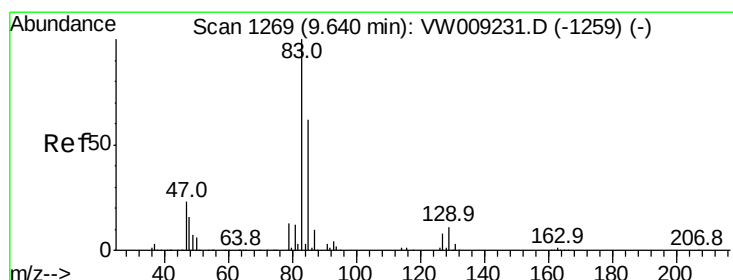
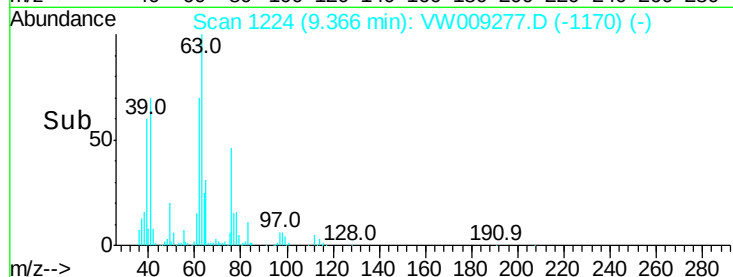
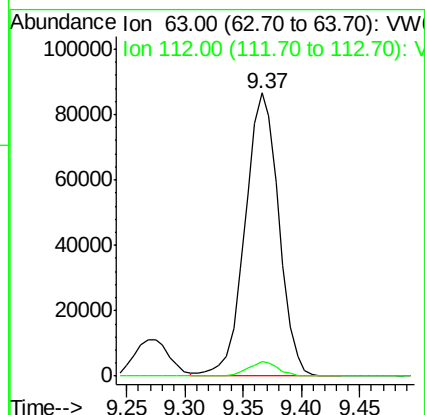
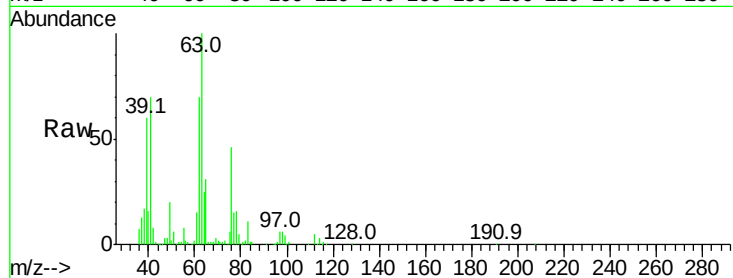
VSTD02514

Tgt Ion: 63 Resp: 174590

Ion Ratio Lower Upper

63 100

112 4.6 4.0 6.0



#41

Bromodichloromethane

Concen: 26.947 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VW009277.D

Acq: 20 Mar 2019 10:22

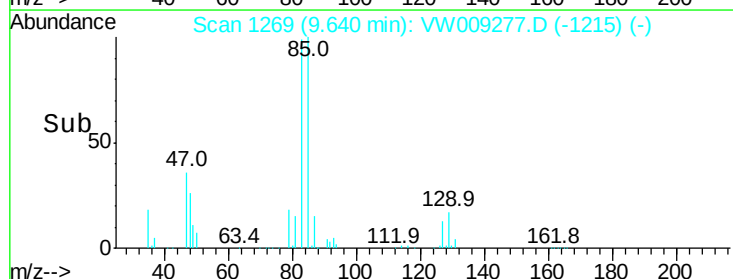
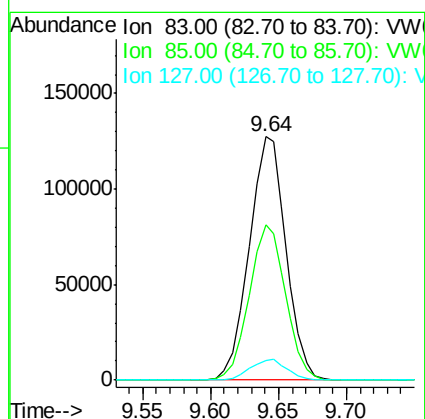
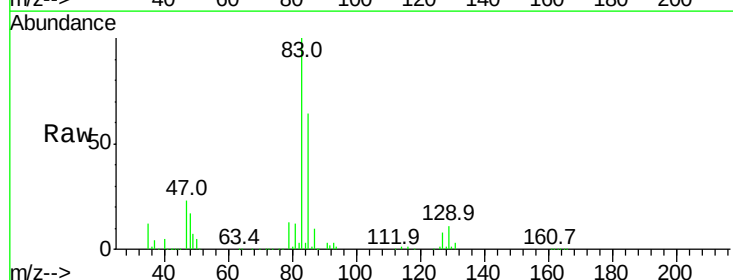
Tgt Ion: 83 Resp: 240987

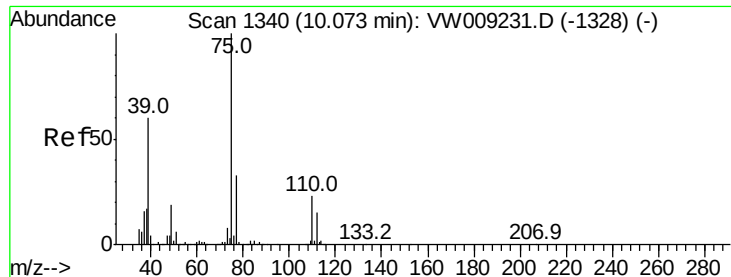
Ion Ratio Lower Upper

83 100

85 63.9 43.5 80.7

127 8.1 6.2 9.4





#42

cis-1,3-Dichloropropene

Concen: 27.185 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW009277.D

Acq: 20 Mar 2019 10:22

Instrument :

MSVOA_W

ClientSampleId :

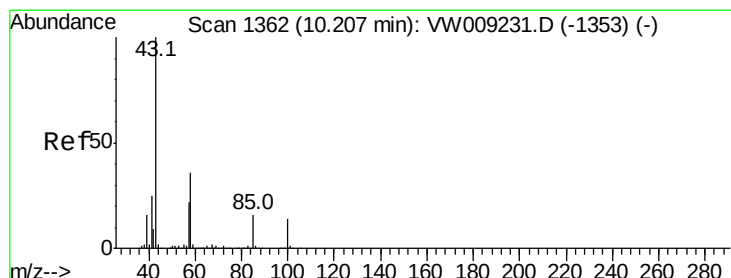
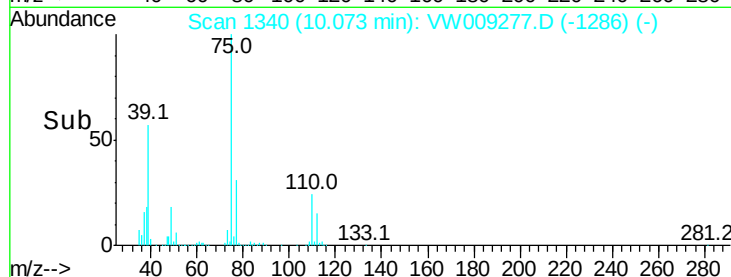
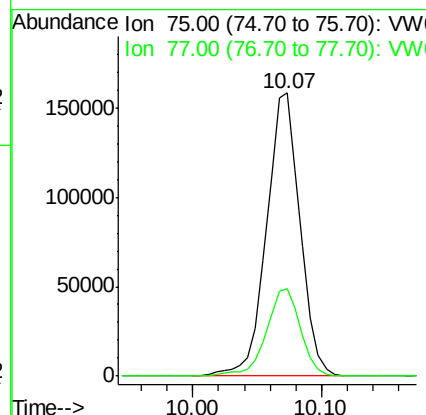
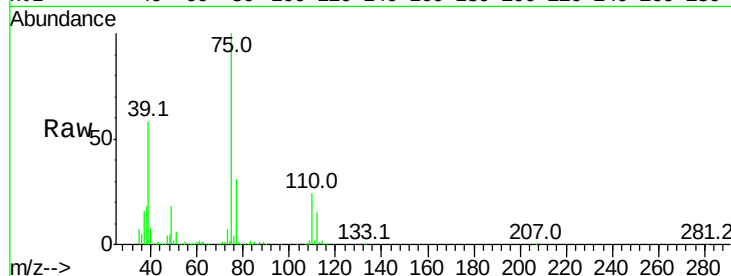
VSTD02514

Tgt Ion: 75 Resp: 285775

Ion Ratio Lower Upper

75 100

77 31.0 21.6 40.2



#43

4-Methyl-2-pentanone

Concen: 47.321 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. -0.01 min

Lab File: VW009277.D

Acq: 20 Mar 2019 10:22

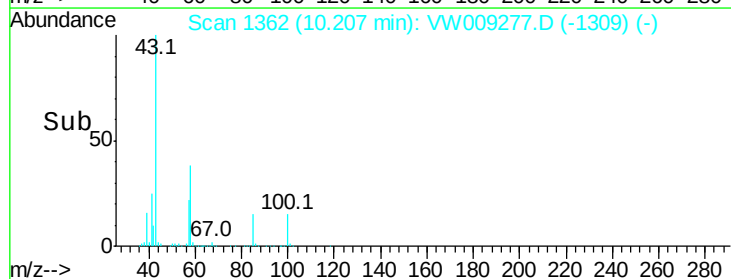
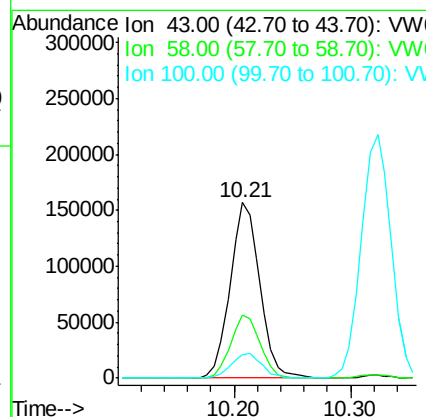
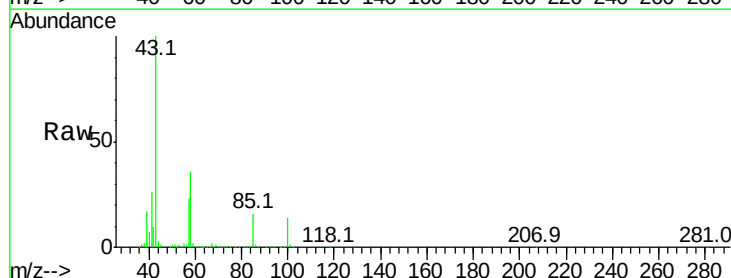
Tgt Ion: 43 Resp: 276761

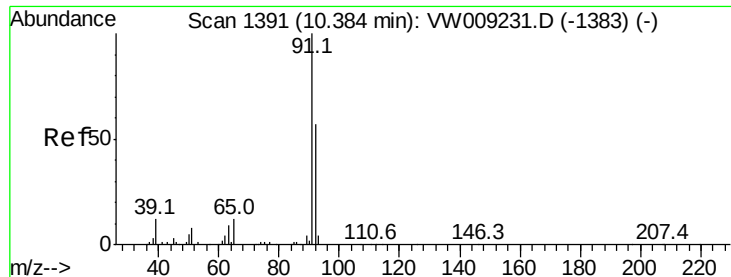
Ion Ratio Lower Upper

43 100

58 35.7 28.2 42.2

100 14.3 11.4 17.2





#44

Toluene

Concen: 27.786 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW009277.D

Acq: 20 Mar 2019 10:22

Instrument :

MSVOA_W

ClientSampleId :

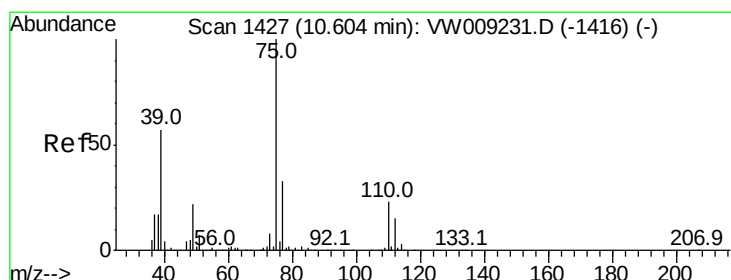
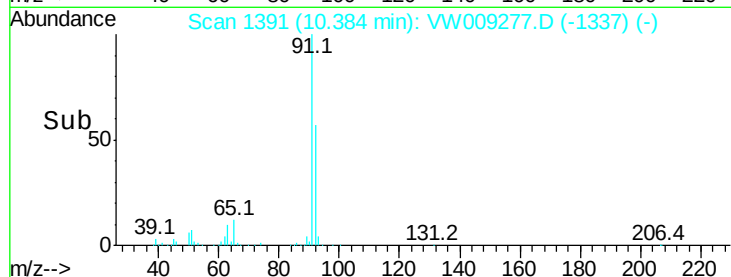
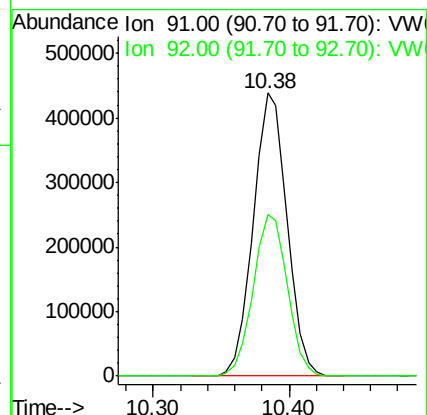
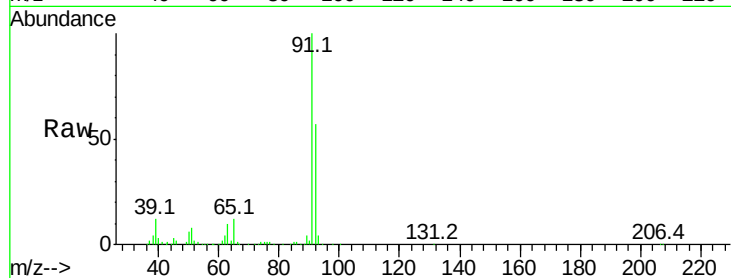
VSTD02514

Tgt Ion: 91 Resp: 764127

Ion Ratio Lower Upper

91 100

92 57.0 39.8 73.8



#45

trans-1,3-Dichloropropene

Concen: 26.673 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW009277.D

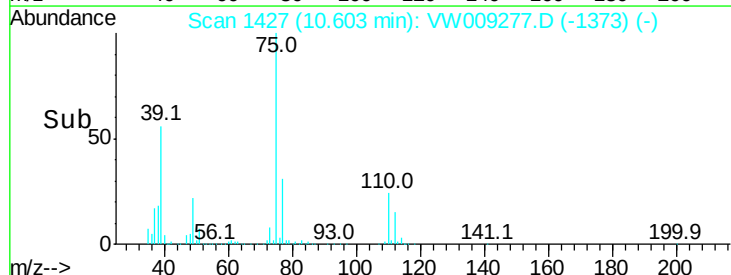
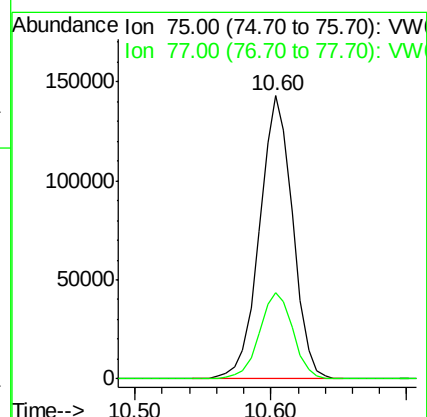
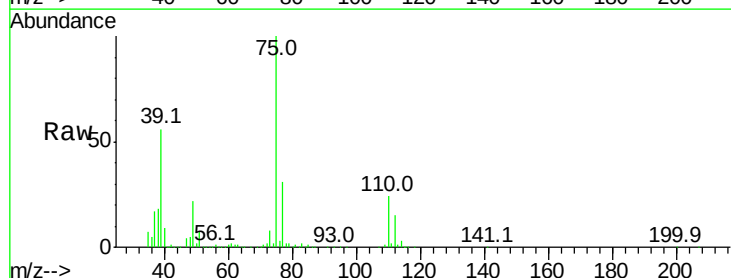
Acq: 20 Mar 2019 10:22

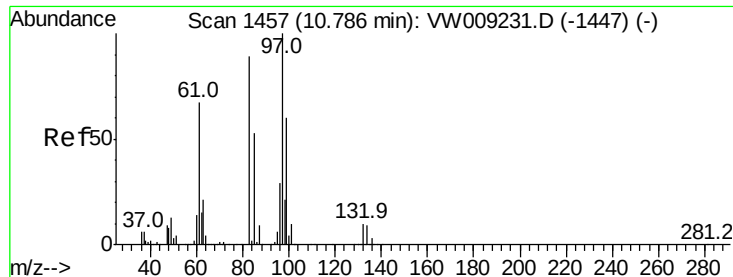
Tgt Ion: 75 Resp: 243917

Ion Ratio Lower Upper

75 100

77 30.6 22.5 41.7





#46

1,1,2-Trichloroethane

Concen: 25.392 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW009277.D

Acq: 20 Mar 2019 10:22

Instrument :

MSVOA_W

ClientSampleId :

VSTD02514

Tgt Ion: 97 Resp: 130750

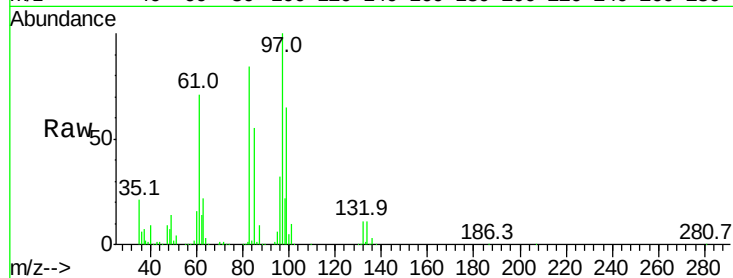
Ion Ratio Lower Upper

97 100

83 83.8 60.7 112.7

85 54.5 40.1 74.5

99 64.6 43.8 81.3



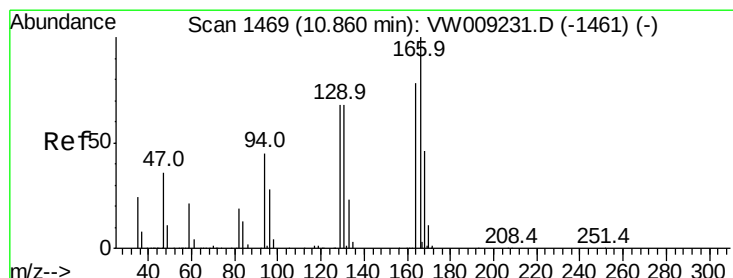
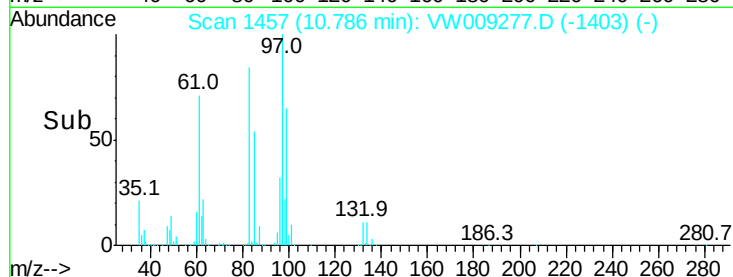
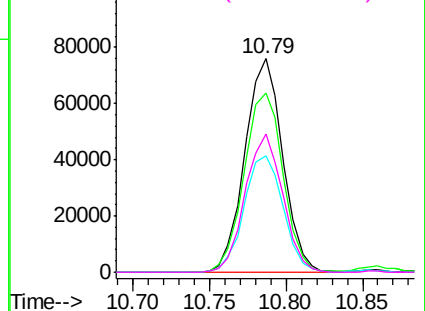
Abundance

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: 26.974 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW009277.D

Acq: 20 Mar 2019 10:22

Tgt Ion: 164 Resp: 152754

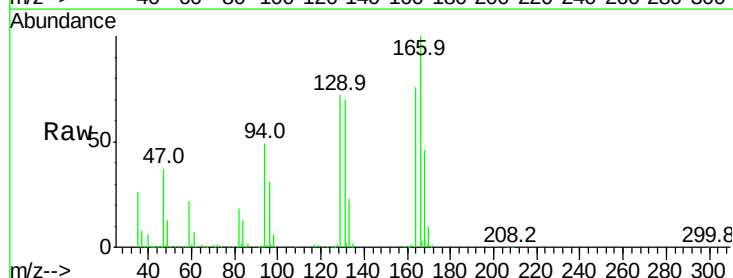
Ion Ratio Lower Upper

164 100

129 94.3 66.5 123.5

131 91.8 62.6 116.3

166 131.2 91.6 170.0



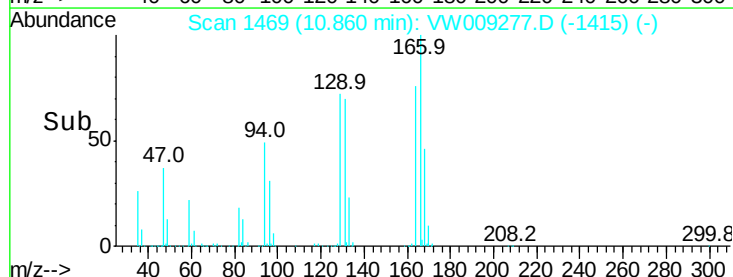
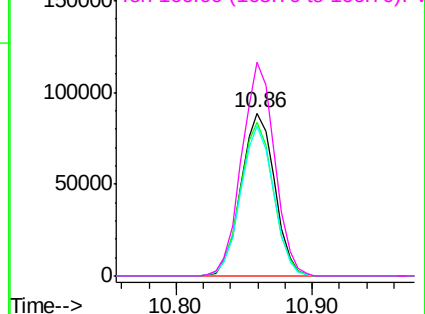
Abundance

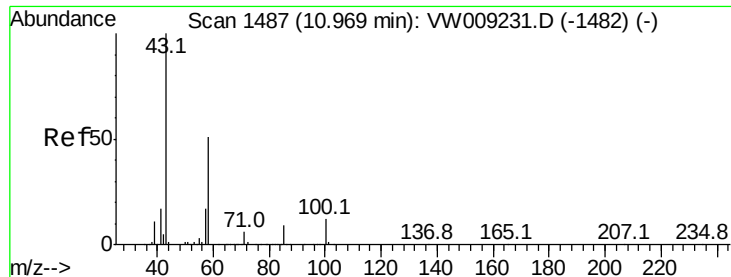
Ion 164.00 (163.70 to 164.70): V

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: 50.277 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW009277.D

Acq: 20 Mar 2019 10:22

Instrument :

MSVOA_W

ClientSampleId :

VSTD02514

Tgt Ion: 43 Resp: 207102

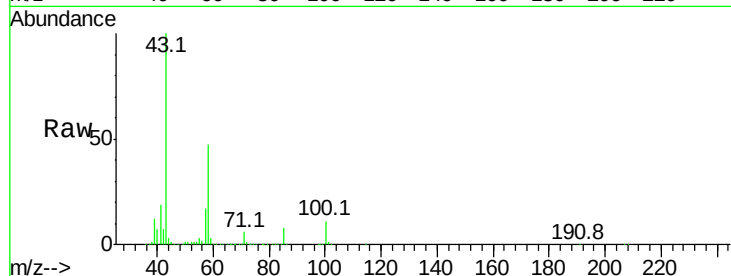
Ion Ratio Lower Upper

43 100

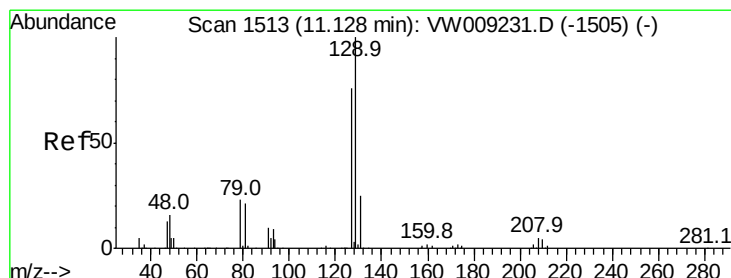
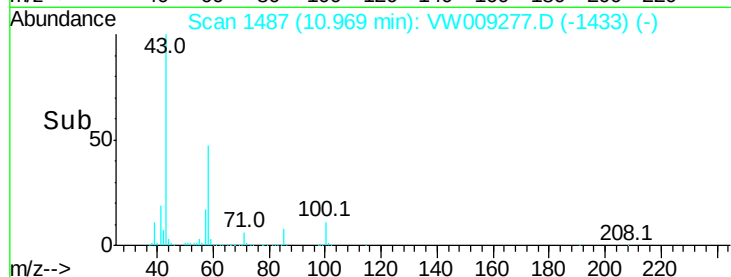
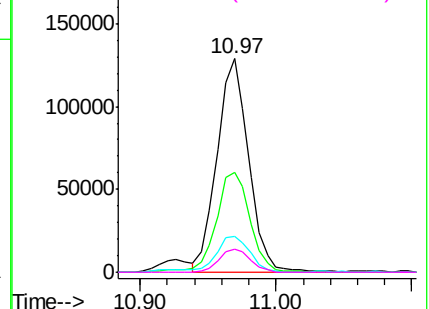
58 49.3 39.2 58.8

57 17.7 14.2 21.2

100 10.8 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: 26.162 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW009277.D

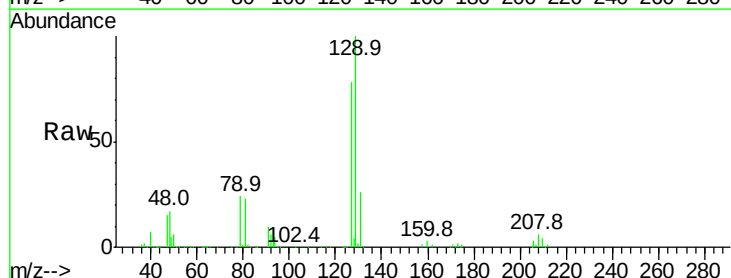
Acq: 20 Mar 2019 10:22

Tgt Ion: 129 Resp: 166296

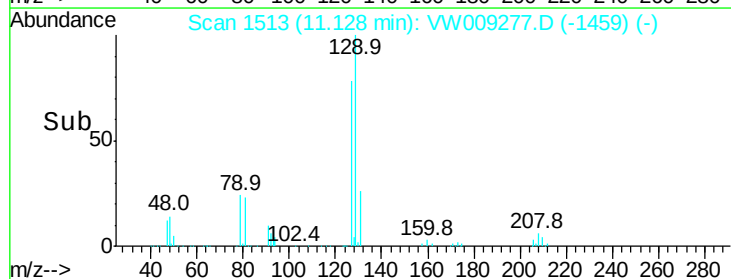
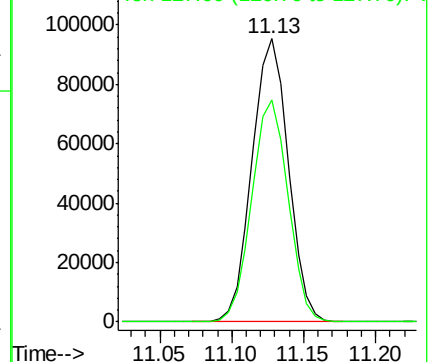
Ion Ratio Lower Upper

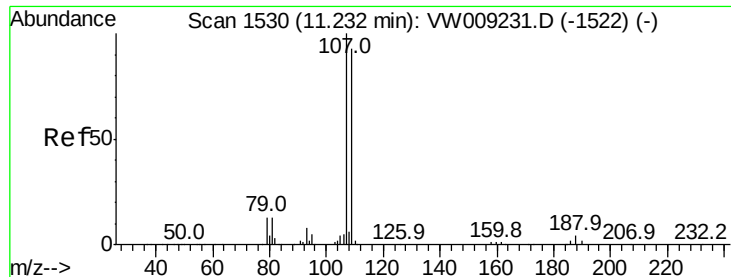
129 100

127 78.5 56.8 105.6



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

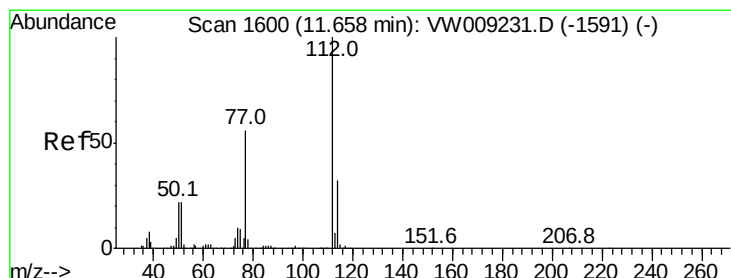
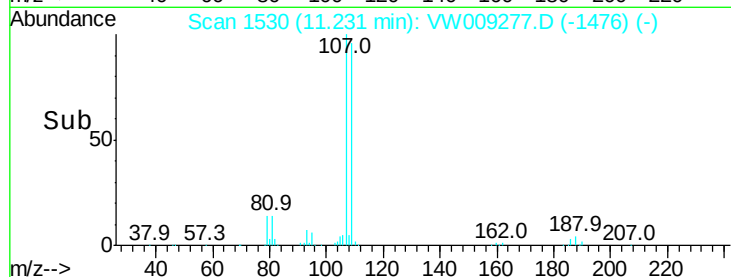
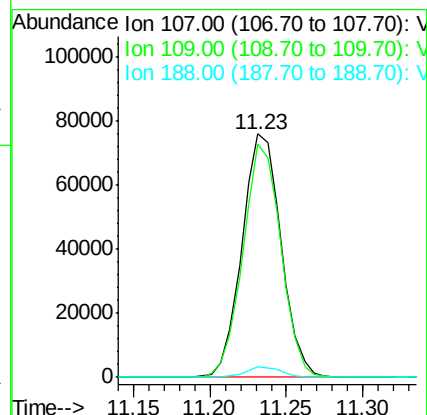
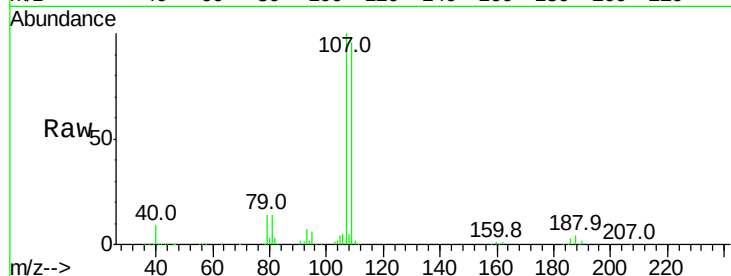




#51
1,2-Dibromoethane
Concen: 25.781 ug/L
RT: 11.23 min Scan# 1530
Delta R.T. 0.00 min
Lab File: VW009277.D
Acq: 20 Mar 2019 10:22

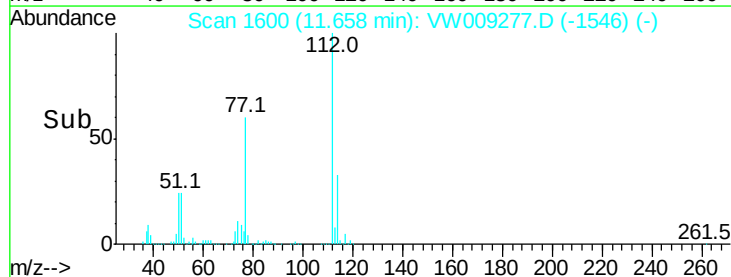
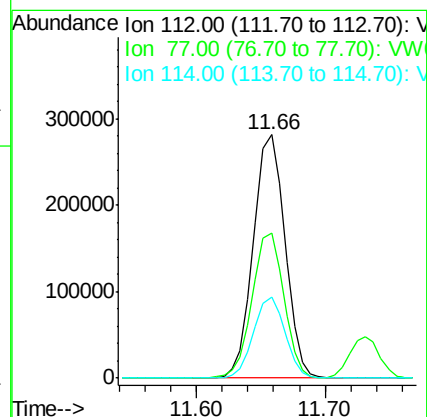
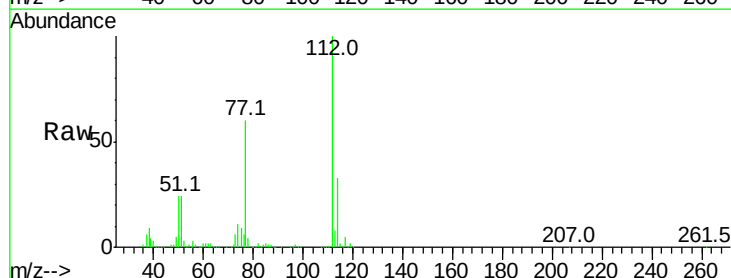
Instrument :
MSVOA_W
ClientSampleId :
VSTD02514

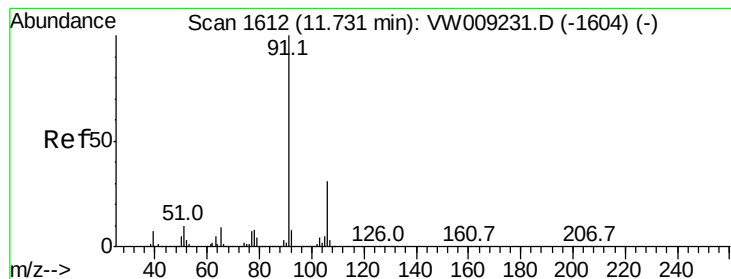
Tgt Ion:107 Resp: 134578
Ion Ratio Lower Upper
107 100
109 95.7 68.0 126.4
188 4.2 3.5 5.3



#52
Chlorobenzene
Concen: 27.086 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW009277.D
Acq: 20 Mar 2019 10:22

Tgt Ion:112 Resp: 477748
Ion Ratio Lower Upper
112 100
77 59.8 45.7 68.5
114 33.1 22.8 42.4





#53

Ethylbenzene

Concen: 28.287 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW009277.D

Acq: 20 Mar 2019 10:22

Instrument :

MSVOA_W

ClientSampleId :

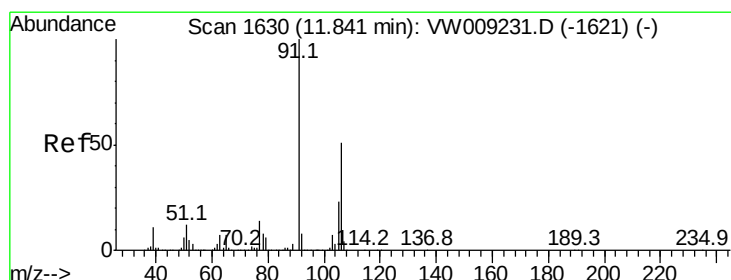
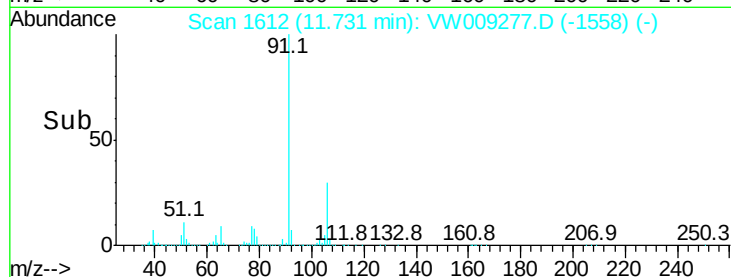
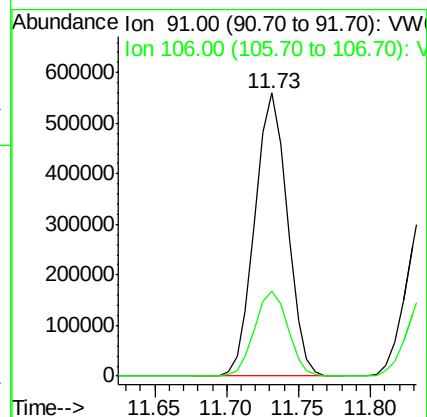
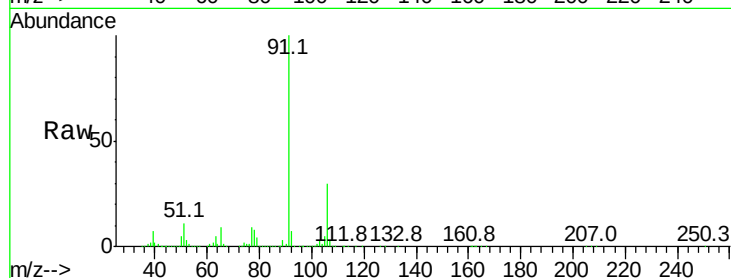
VSTD02514

Tgt Ion: 91 Resp: 874602

Ion Ratio Lower Upper

91 100

106 30.2 21.0 39.0



#54

m,p-Xylene

Concen: 28.077 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW009277.D

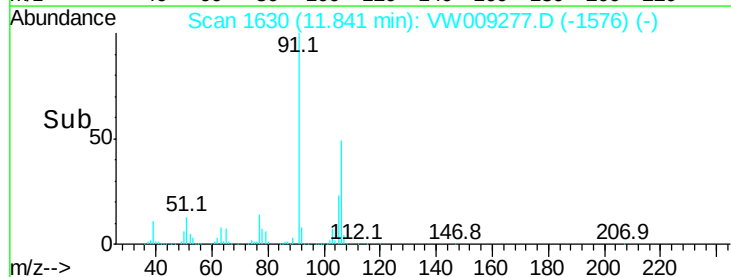
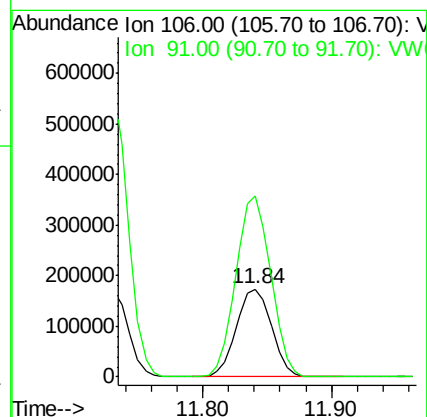
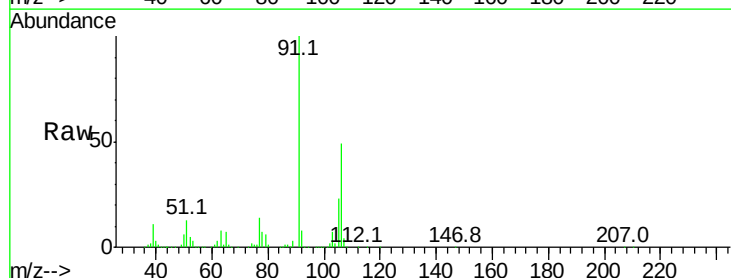
Acq: 20 Mar 2019 10:22

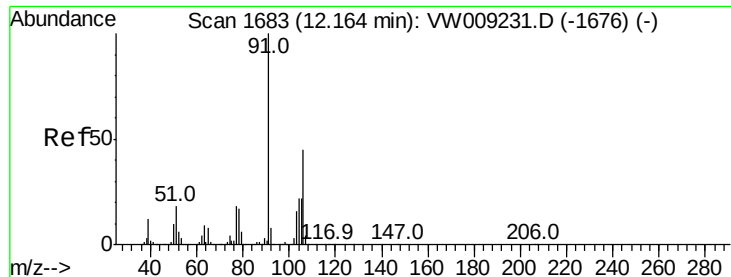
Tgt Ion: 106 Resp: 329804

Ion Ratio Lower Upper

106 100

91 204.9 138.4 257.0

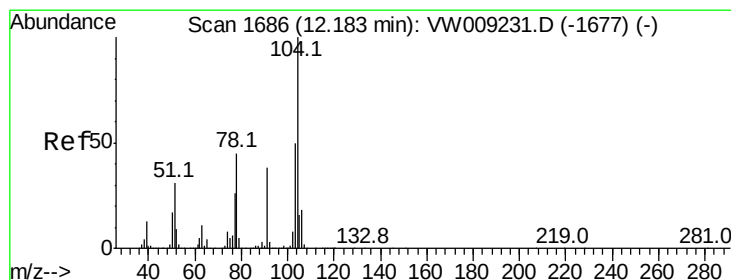
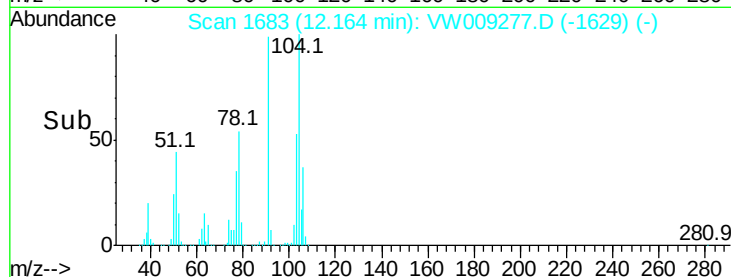
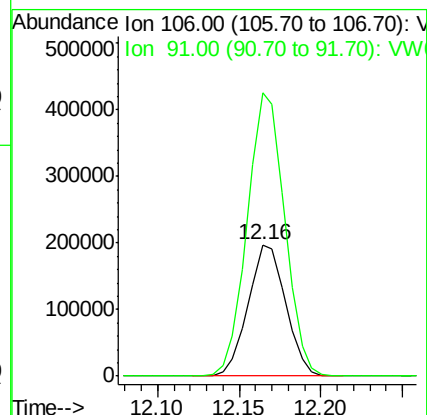
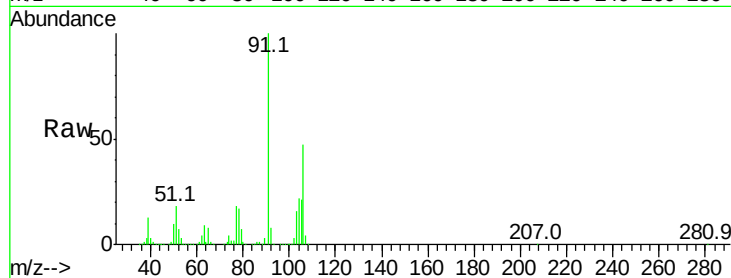




#55
o-xylene
Concen: 27.651 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW009277.D
Acq: 20 Mar 2019 10:22

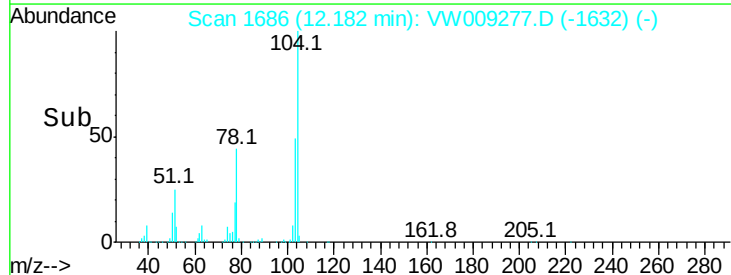
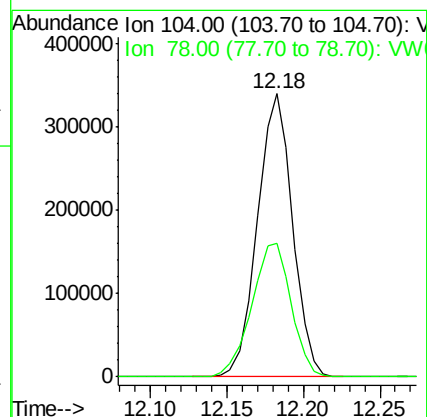
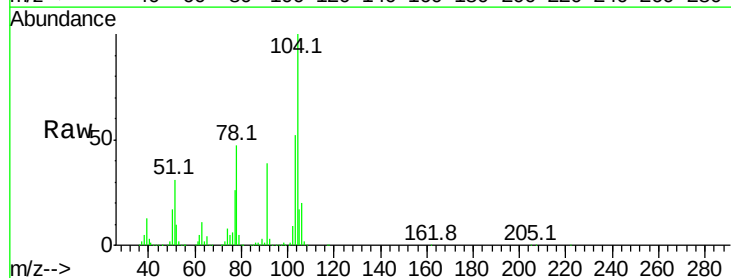
Instrument :
MSVOA_W
ClientSampleId :
VSTD02514

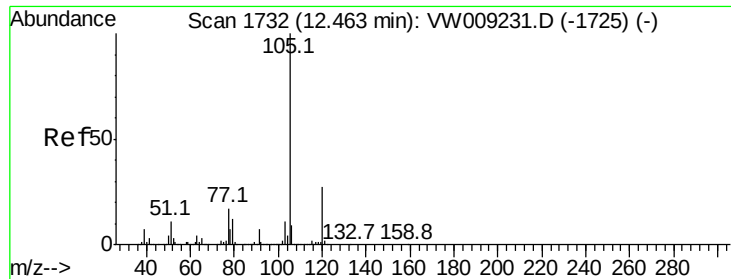
Tgt Ion:106 Resp: 316862
Ion Ratio Lower Upper
106 100
91 214.9 153.2 284.4



#56
Styrene
Concen: 27.802 ug/L
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW009277.D
Acq: 20 Mar 2019 10:22

Tgt Ion:104 Resp: 543587
Ion Ratio Lower Upper
104 100
78 47.1 30.9 57.3





#57

Isopropylbenzene

Concen: 28.676 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW009277.D

Acq: 20 Mar 2019 10:22

Instrument :

MSVOA_W

ClientSampleId :

VSTD02514

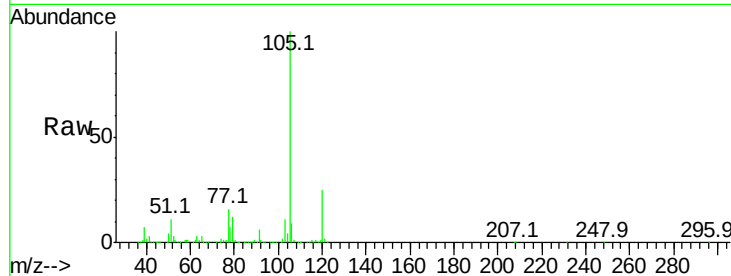
Tgt Ion:105 Resp: 880283

Ion Ratio Lower Upper

105 100

120 26.3 21.3 31.9

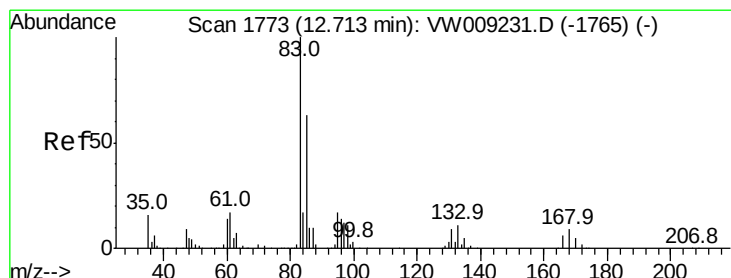
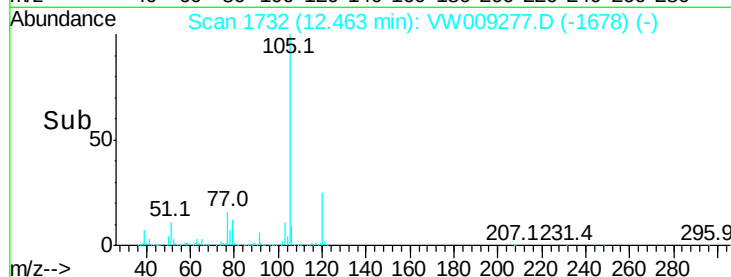
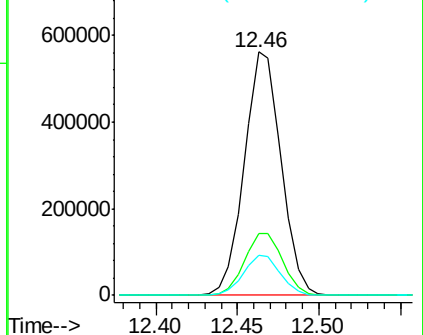
77 16.6 13.1 19.7



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: 25.015 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW009277.D

Acq: 20 Mar 2019 10:22

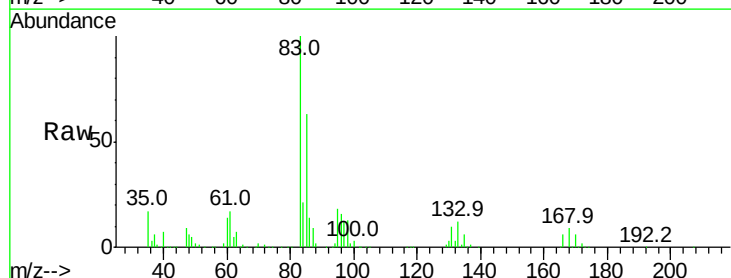
Tgt Ion: 83 Resp: 173766

Ion Ratio Lower Upper

83 100

85 63.1 45.6 84.8

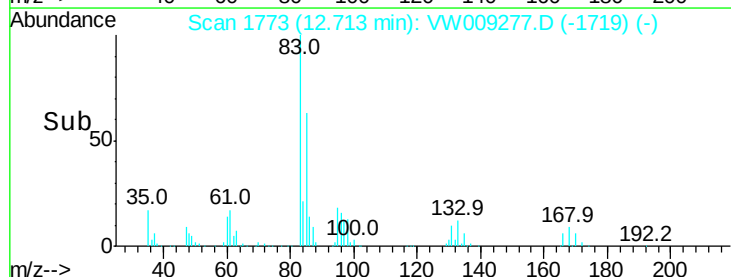
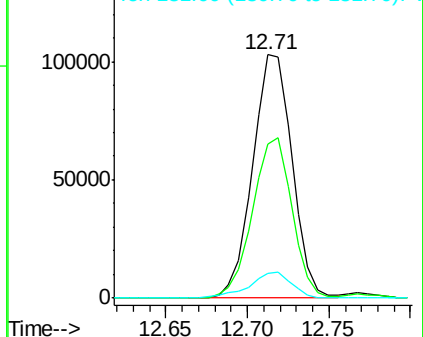
131 9.9 9.2 13.8

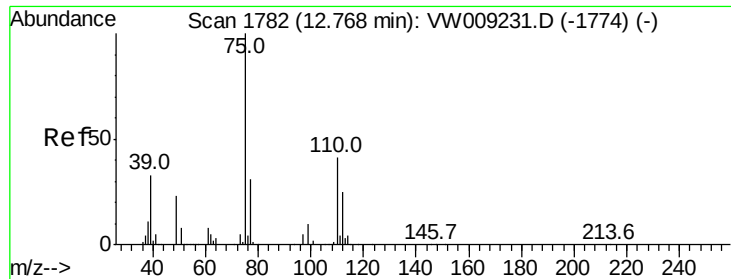


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 24.404 ug/L

RT: 12.77 min Scan# 1783

Delta R.T. 0.01 min

Lab File: VW009277.D

Acq: 20 Mar 2019 10:22

Instrument :

MSVOA_W

ClientSampleId :

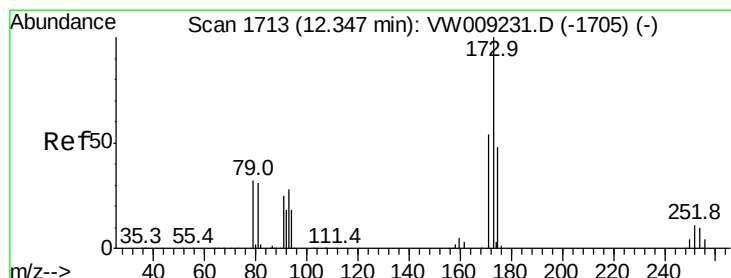
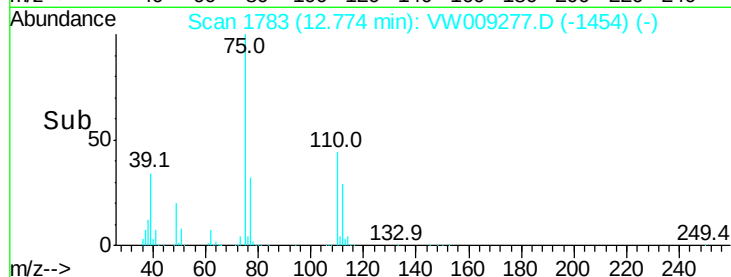
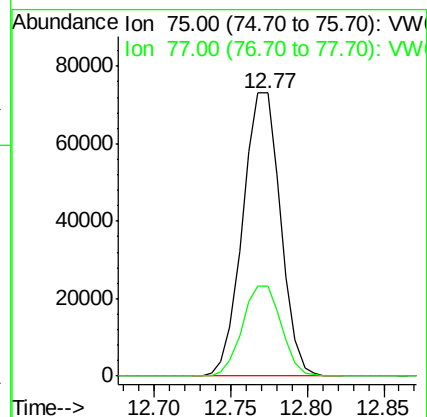
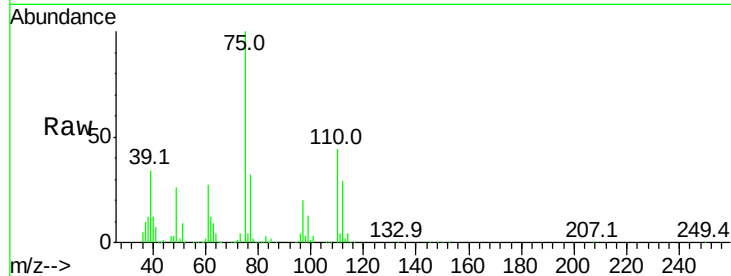
VSTD02514

Tgt Ion: 75 Resp: 125808

Ion Ratio Lower Upper

75 100

77 32.9 26.2 39.2



#62

Bromoform

Concen: 25.776 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW009277.D

Acq: 20 Mar 2019 10:22

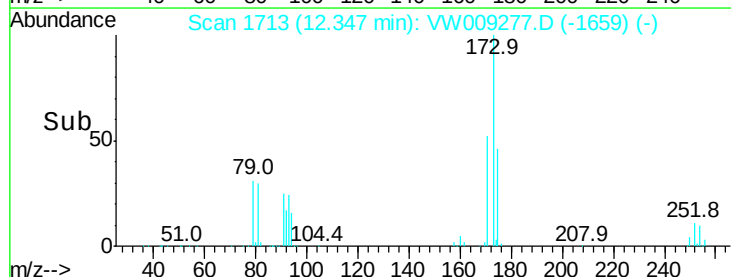
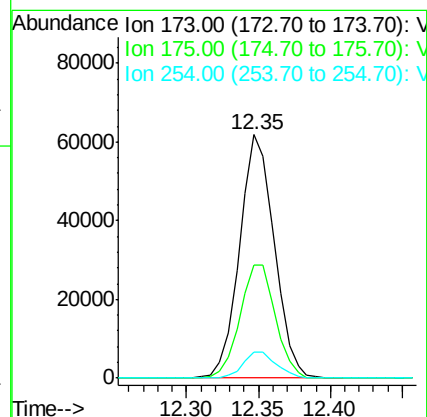
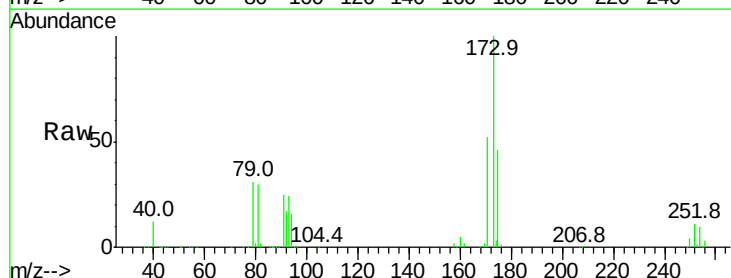
Tgt Ion: 173 Resp: 103404

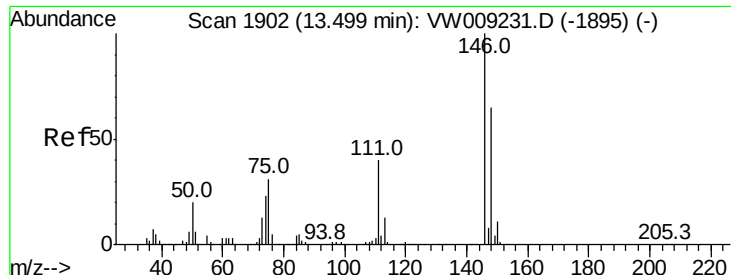
Ion Ratio Lower Upper

173 100

175 47.4 39.7 59.5

254 10.1 8.5 12.7

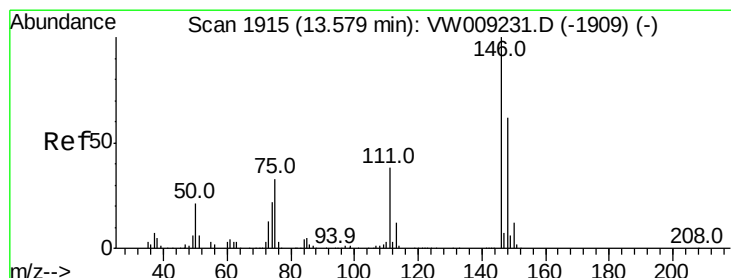
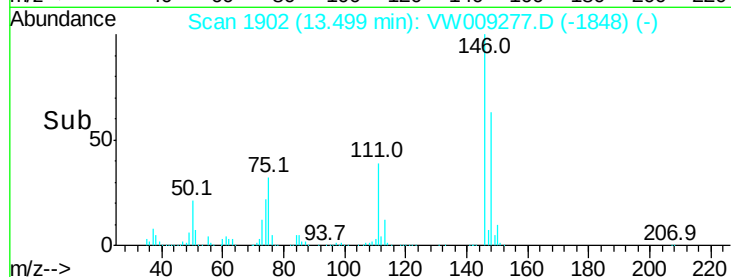
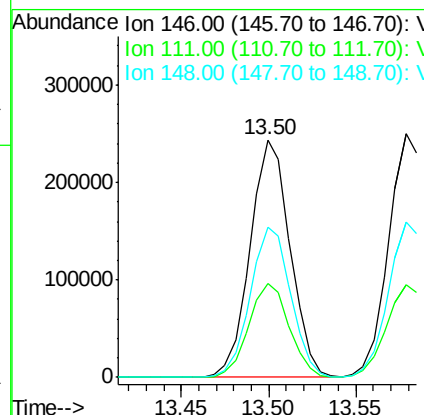
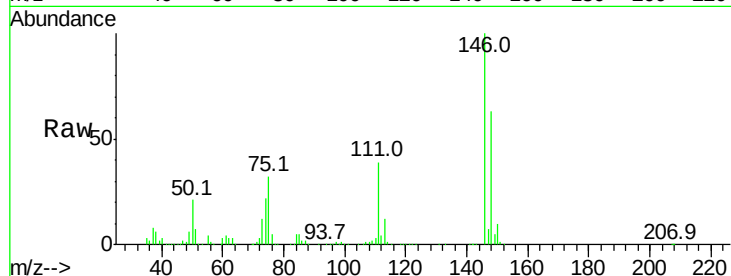




#63
 1,3-Dichlorobenzene
 Concen: 27.300 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW009277.D
 Acq: 20 Mar 2019 10:22

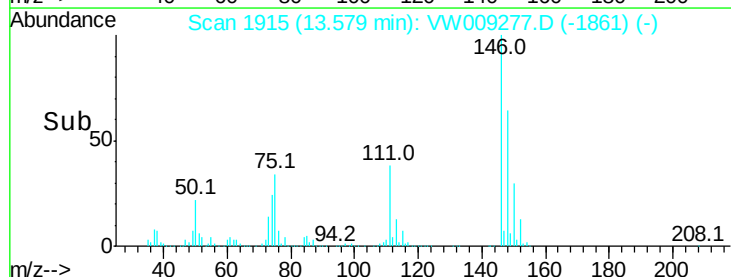
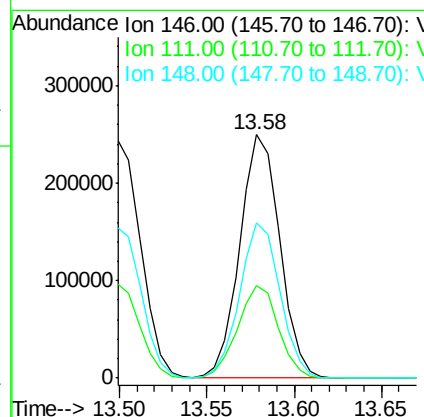
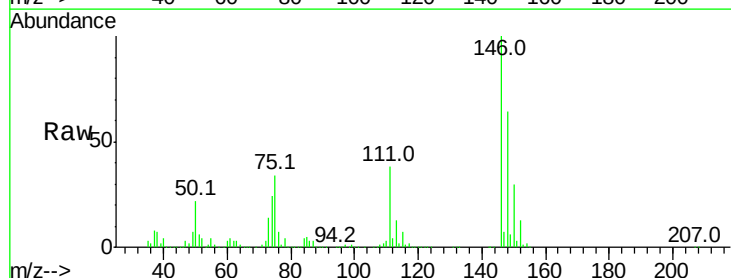
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02514

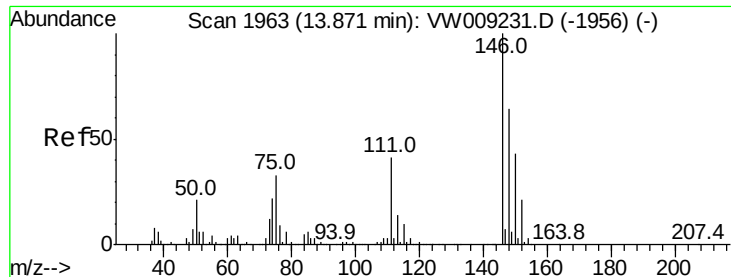
Tgt Ion:146 Resp: 386306
 Ion Ratio Lower Upper
 146 100
 111 39.3 26.9 49.9
 148 63.2 45.1 83.7



#64
 1,4-Dichlorobenzene
 Concen: 27.210 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW009277.D
 Acq: 20 Mar 2019 10:22

Tgt Ion:146 Resp: 398076
 Ion Ratio Lower Upper
 146 100
 111 38.0 27.8 51.6
 148 63.6 46.3 86.1

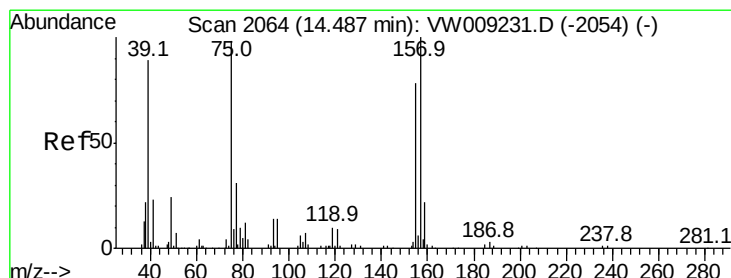
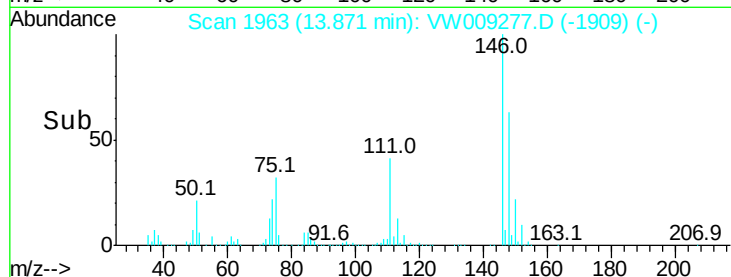
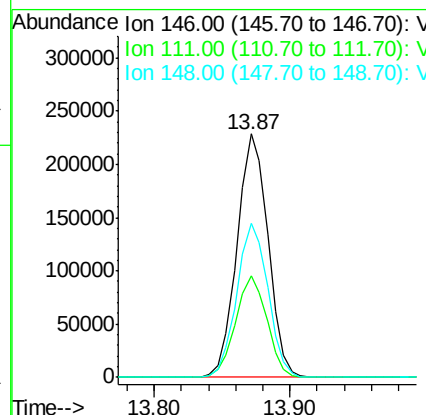
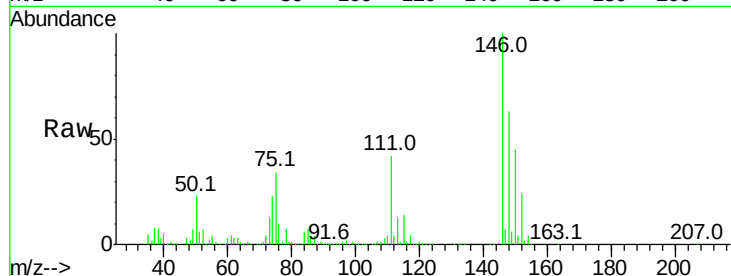




#65
 1,2-Dichlorobenzene
 Concen: 26.834 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW009277.D
 Acq: 20 Mar 2019 10:22

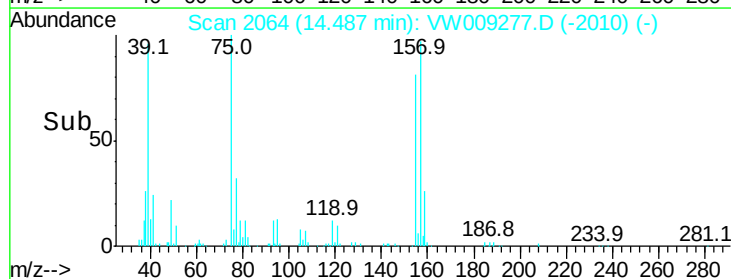
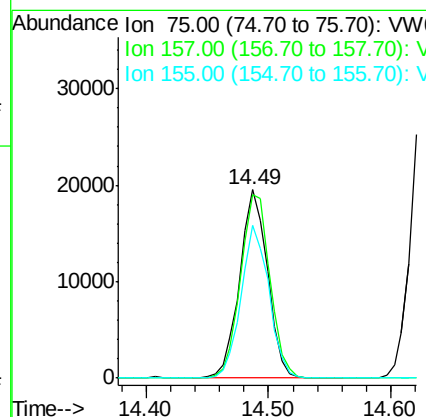
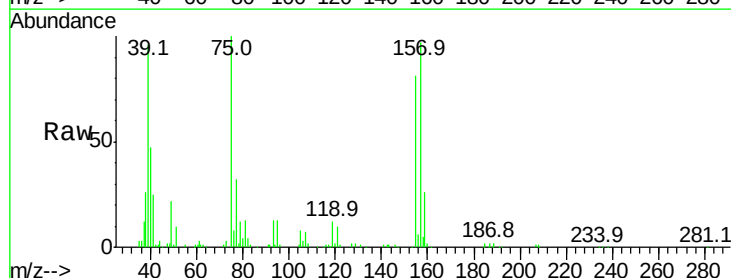
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02514

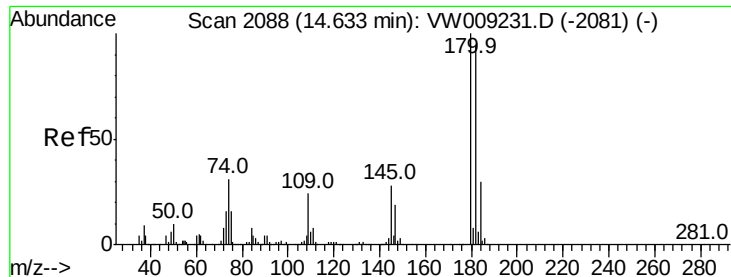
Tgt Ion:146 Resp: 362116
 Ion Ratio Lower Upper
 146 100
 111 41.6 33.5 50.3
 148 63.2 50.2 75.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 23.306 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. -0.00 min
 Lab File: VW009277.D
 Acq: 20 Mar 2019 10:22

Tgt Ion: 75 Resp: 30823
 Ion Ratio Lower Upper
 75 100
 157 97.5 89.0 133.4
 155 81.0 64.2 96.2

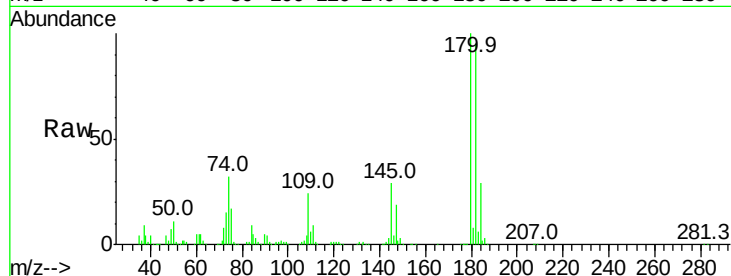




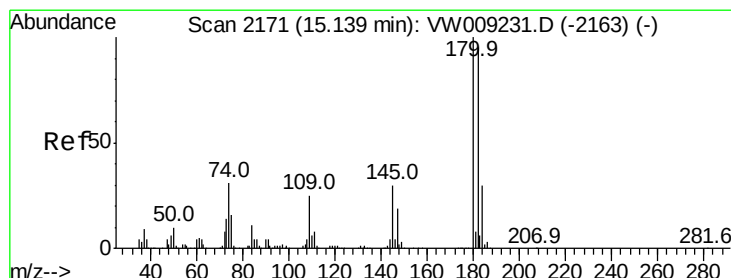
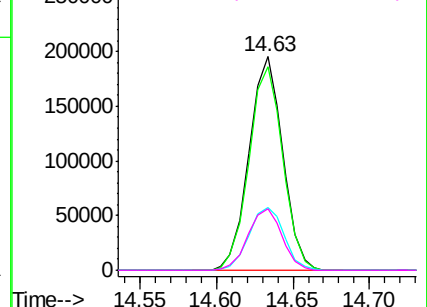
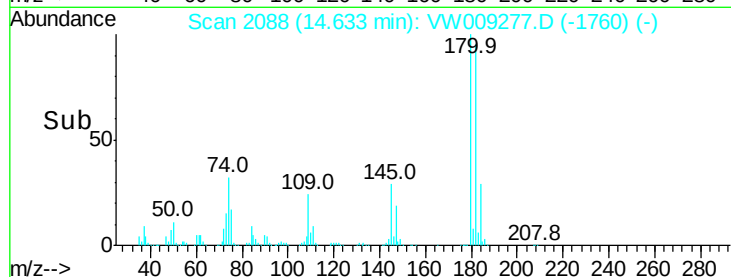
#67
 1,3,5-Trichlorobenzene
 Concen: 27.071 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. -0.00 min
 Lab File: VW009277.D
 Acq: 20 Mar 2019 10:22

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02514

Tgt Ion:180 Resp: 298784
 Ion Ratio Lower Upper
 180 100
 182 95.8 76.1 114.1
 184 30.4 23.8 35.6
 145 29.2 23.4 35.2

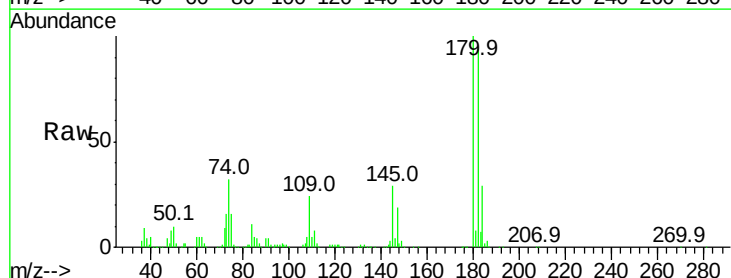


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

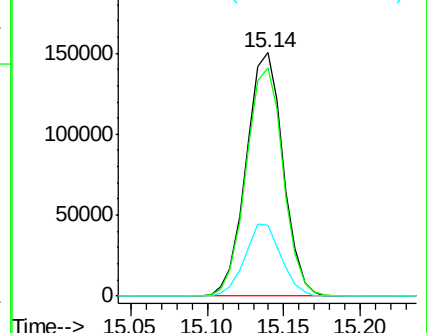
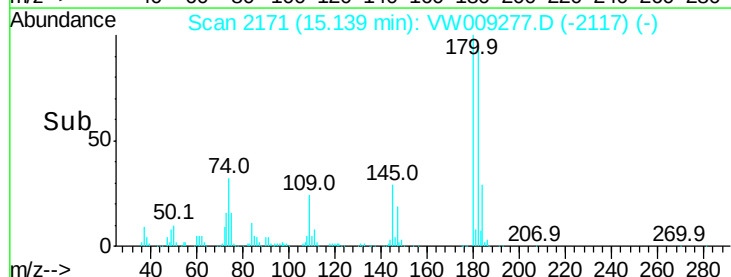


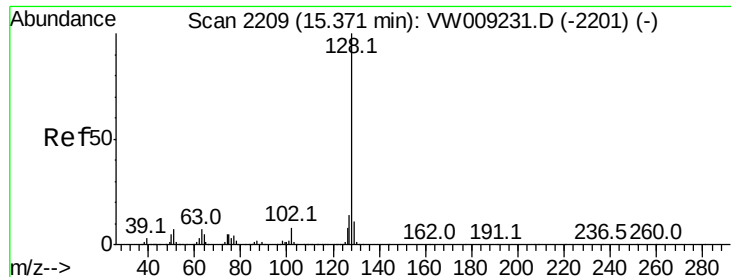
#68
 1,2,4-trichlorobenzene
 Concen: 27.132 ug/L
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.00 min
 Lab File: VW009277.D
 Acq: 20 Mar 2019 10:22

Tgt Ion:180 Resp: 251540
 Ion Ratio Lower Upper
 180 100
 182 94.3 75.5 113.3
 145 29.3 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: 25.779 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW009277.D

Acq: 20 Mar 2019 10:22

Instrument :

MSVOA_W

ClientSampleId :

VSTD02514

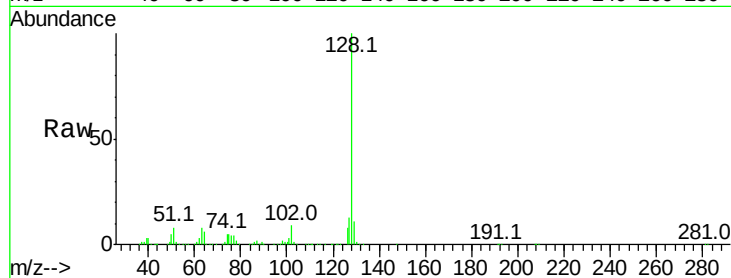
Tgt Ion:128 Resp: 495485

Ion Ratio Lower Upper

128 100

129 10.7 8.7 13.1

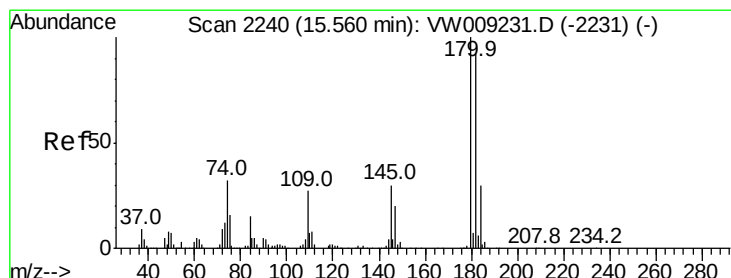
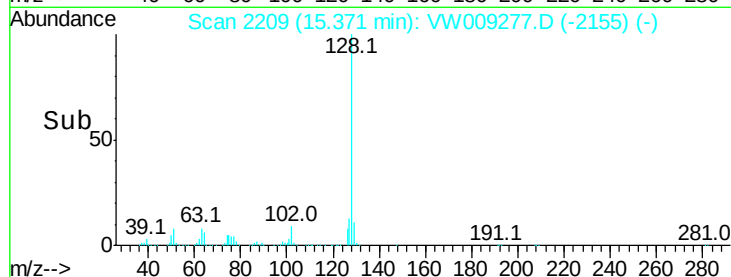
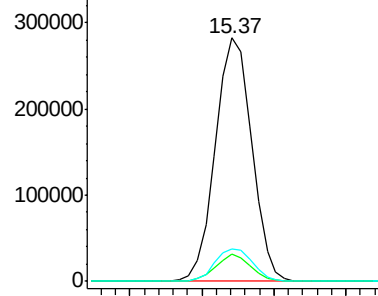
127 13.8 11.1 16.7



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: 26.525 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. 0.00 min

Lab File: VW009277.D

Acq: 20 Mar 2019 10:22

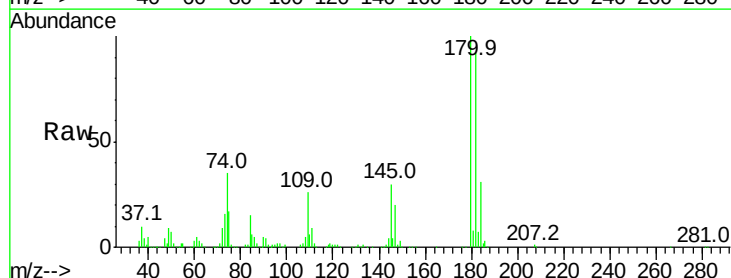
Tgt Ion:180 Resp: 230323

Ion Ratio Lower Upper

180 100

182 94.5 77.2 115.8

145 31.6 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

