

Data File : VW009297.D
Acq On : 20 Mar 2019 20:00
Operator : SY/VA
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD02515

Quant Time: Mar 21 10:34:50 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM031419S.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 21 10:17:44 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	438212	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	421172	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	224562	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	124772	23.83	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	95.32%
7) Chloroethane-d5	2.89	69	119430	19.49	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	77.96%
10) 1,1-Dichloroethene-d2	4.02	63	277926	24.56	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	98.24%
20) 2-Butanone-d5	7.07	46	111977	51.71	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	103.42%
24) Chloroform-d	7.64	84	284034	23.75	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	95.00%
26) 1,2-Dichloroethane-d4	8.30	65	171086	23.75	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	95.00%
29) Benzene-d6	8.27	84	528675	22.76	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	91.04%
33) 1,2-Dichloropropane-d6	9.27	67	159128	22.81	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	91.24%
37) Toluene-d8	10.32	98	495021	23.05	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	92.20%
38) trans-1,3-Dichloropropene-	10.57	79	79944	22.82	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	91.28%
39) 2-Hexanone-d5	10.93	63	91474	54.14	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	108.28%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	173758	25.29	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	101.16%
61) 1,2-Dichlorobenzene-d4	13.86	152	196837	22.86	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	91.44%

Target Compounds

					Qvalue
3) Chloromethane	2.21	50	146156	23.864 ug/L	97
5) Vinyl chloride	2.37	62	196877	31.230 ug/L	96
6) Bromomethane	2.78	94	134120	25.394 ug/L	100
8) Chloroethane	2.93	64	133108	25.521 ug/L	94
9) Trichlorofluoromethane	3.25	101	106235	21.334 ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	154278	26.828 ug/L	98
12) 1,1-Dichloroethene	4.04	96	159307	29.522 ug/L	80
13) Acetone	4.12	43	101471	57.136 ug/L	96
14) Carbon disulfide	4.38	76	448065	30.852 ug/L	98
15) Methyl Acetate	4.67	43	99915	28.638 ug/L	98
16) Methylene chloride	4.92	84	163151	25.531 ug/L	95
17) Methyl tert-butyl Ether	5.42	73	212189	27.790 ug/L	98
18) trans-1,2-Dichloroethene	5.41	96	158445	27.927 ug/L	98
19) 1,1-Dichloroethane	6.21	63	292903	28.314 ug/L	98
21) 2-Butanone	7.17	43	147188	60.024 ug/L	99
22) cis-1,2-Dichloroethene	7.16	96	175182	28.504 ug/L	97
23) Bromochloromethane	7.51	128	82106	27.854 ug/L	95

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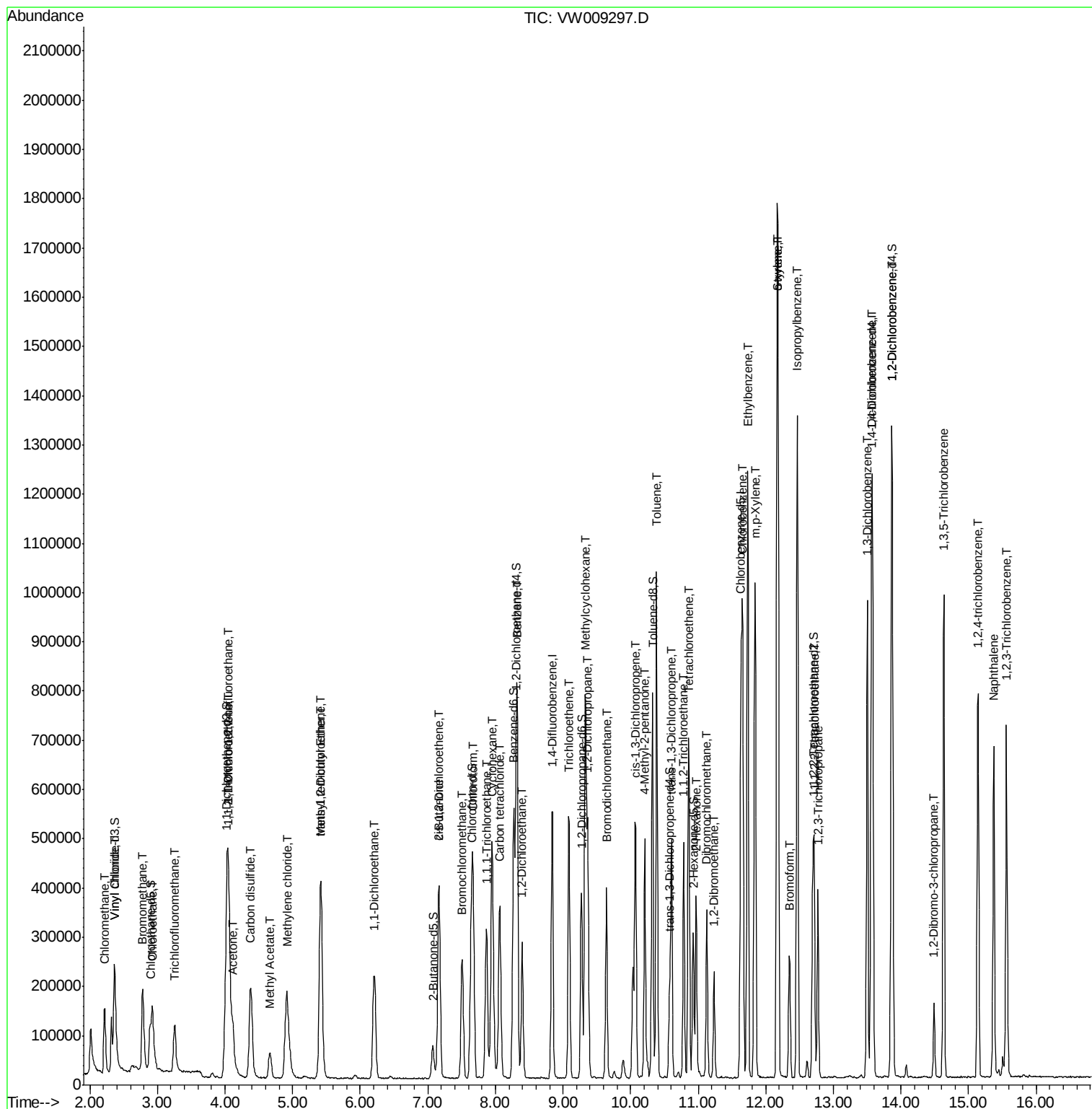
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Chloroform	7.67	83	310548	28.666	ug/L	99
27) 1,2-Dichloroethane	8.40	62	233026	28.850	ug/L	100
30) Cyclohexane	7.95	56	267921	28.010	ug/L	100
31) 1,1,1-Trichloroethane	7.87	97	235668	28.016	ug/L	98
32) Carbon tetrachloride	8.06	117	248119	29.235	ug/L	98
34) Benzene	8.32	78	654159	28.377	ug/L	100
35) Trichloroethene	9.09	95	172371	28.061	ug/L	98
36) Methylcyclohexane	9.33	83	298854	28.121	ug/L	99
40) 1,2-Dichloropropane	9.37	63	165567	27.989	ug/L	100
41) Bromodichloromethane	9.64	83	229877	28.046	ug/L	97
42) cis-1,3-Dichloropropene	10.07	75	267688	27.784	ug/L	100
43) 4-Methyl-2-pentanone	10.21	43	312986	58.389	ug/L	99
44) Toluene	10.38	91	711981	28.248	ug/L	97
45) trans-1,3-Dichloropropene	10.60	75	237101	28.290	ug/L	97
46) 1,1,2-Trichloroethane	10.79	97	134190	28.434	ug/L	98
47) Tetrachloroethene	10.86	164	144398	27.821	ug/L	97
49) 2-Hexanone	10.97	43	229777	60.863	ug/L	97
50) Dibromochloromethane	11.13	129	165252	28.366	ug/L	96
51) 1,2-Dibromoethane	11.23	107	136541	28.540	ug/L	94
52) Chlorobenzene	11.66	112	455124	28.153	ug/L	99
53) Ethylbenzene	11.73	91	816698	28.821	ug/L	100
54) m,p-Xylene	11.84	106	308142	28.622	ug/L	93
55) o-xylene	12.16	106	298197	28.392	ug/L	98
56) Styrene	12.18	104	521789	29.118	ug/L	98
57) Isopropylbenzene	12.46	105	815595	28.989	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.71	83	187020	29.375	ug/L	99
59) 1,2,3-Trichloropropane	12.77	75	141087	29.860	ug/L	99
62) Bromoform	12.35	173	108009	28.466	ug/L	98
63) 1,3-Dichlorobenzene	13.50	146	358523	26.788	ug/L	98
64) 1,4-Dichlorobenzene	13.58	146	380503	27.499	ug/L	96
65) 1,2-Dichlorobenzene	13.87	146	352245	27.598	ug/L	99
66) 1,2-Dibromo-3-chloropropan	14.49	75	34442	27.534	ug/L	94
67) 1,3,5-Trichlorobenzene	14.63	180	280187	26.840	ug/L	98
68) 1,2,4-trichlorobenzene	15.14	180	237073	27.037	ug/L	98
69) Naphthalene	15.37	128	534375	29.395	ug/L	100
70) 1,2,3-Trichlorobenzene	15.56	180	228303	27.798	ug/L	99

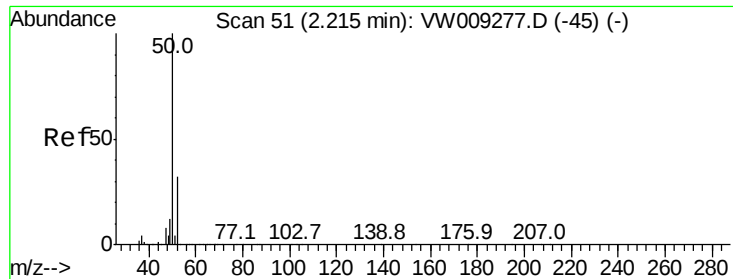
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 23.864 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.01 min

Lab File: VW009297.D

Acq: 20 Mar 2019 20:00

Instrument :

MSVOA_W

ClientSampleId :

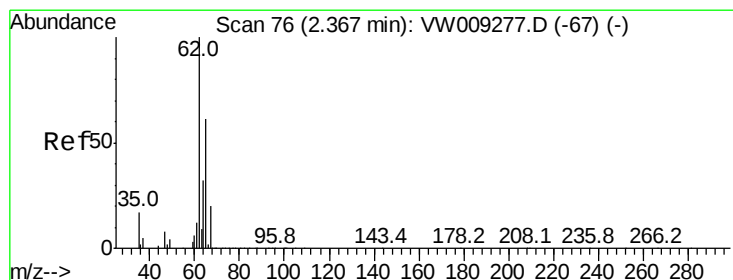
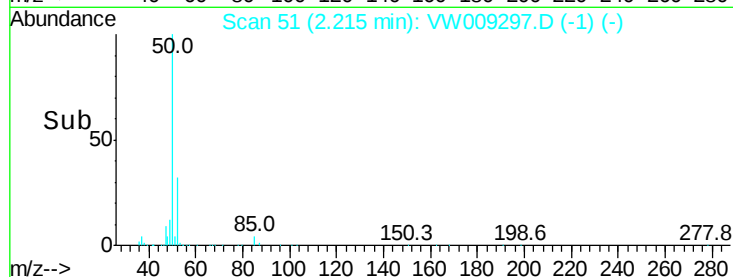
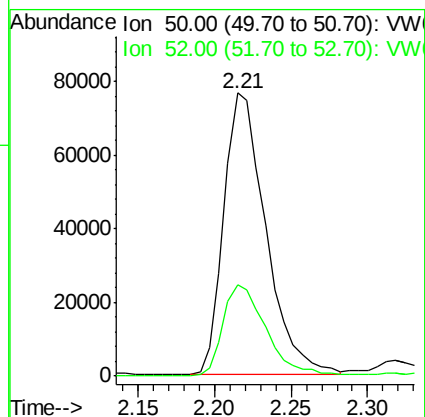
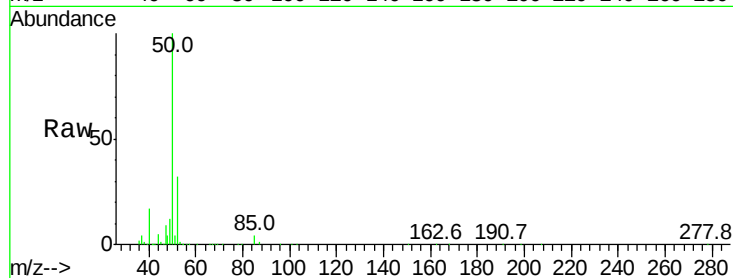
VSTD02515

Tgt Ion: 50 Resp: 146156

Ion Ratio Lower Upper

50 100

52 32.4 21.6 40.2



#5

Vinyl chloride

Concen: 31.230 ug/L

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW009297.D

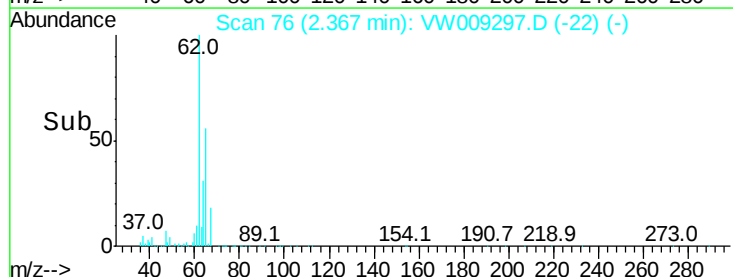
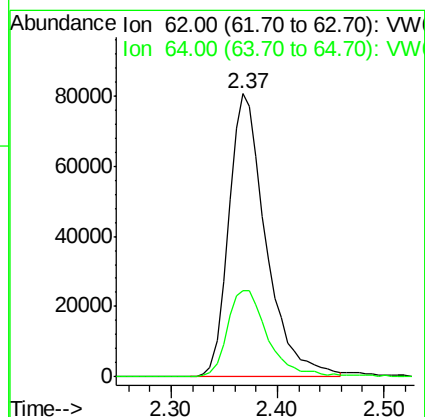
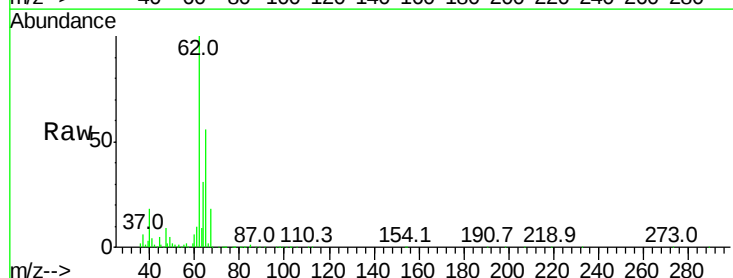
Acq: 20 Mar 2019 20:00

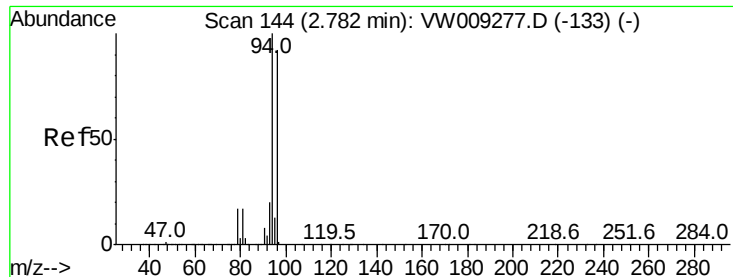
Tgt Ion: 62 Resp: 196877

Ion Ratio Lower Upper

62 100

64 30.7 23.0 42.6





#6

Bromomethane

Concen: 25.394 ug/L

RT: 2.78 min Scan# 144

Delta R.T. 0.00 min

Lab File: VW009297.D

Acq: 20 Mar 2019 20:00

Instrument :

MSVOA_W

ClientSampleId :

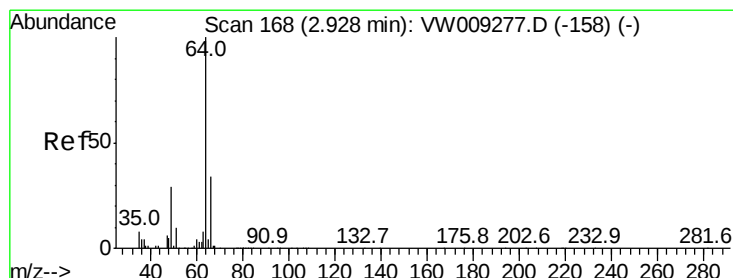
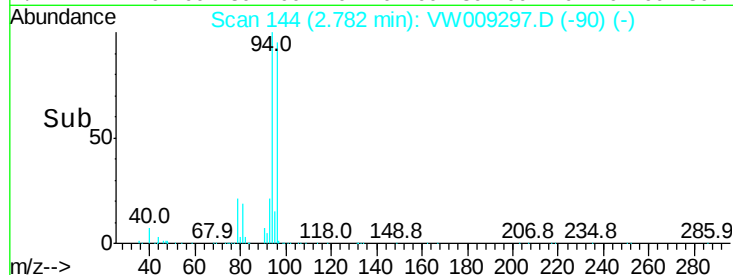
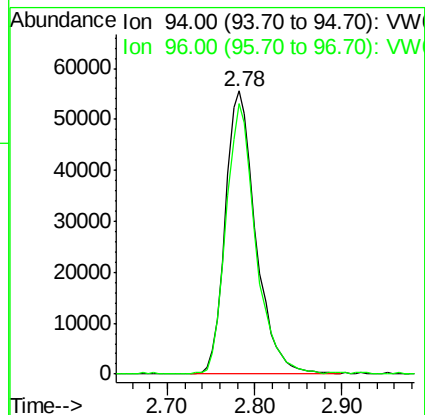
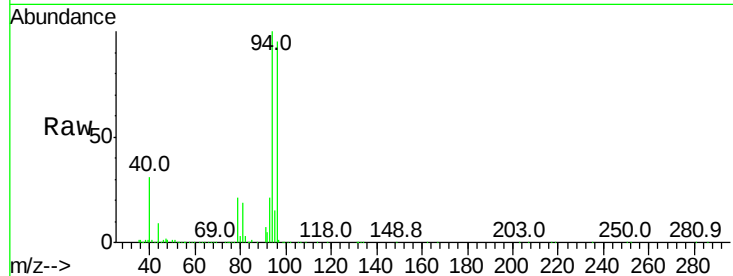
VSTD02515

Tgt Ion: 94 Resp: 134120

Ion Ratio Lower Upper

94 100

96 93.5 9.4 178.4



#8

Chloroethane

Concen: 25.521 ug/L

RT: 2.93 min Scan# 168

Delta R.T. 0.00 min

Lab File: VW009297.D

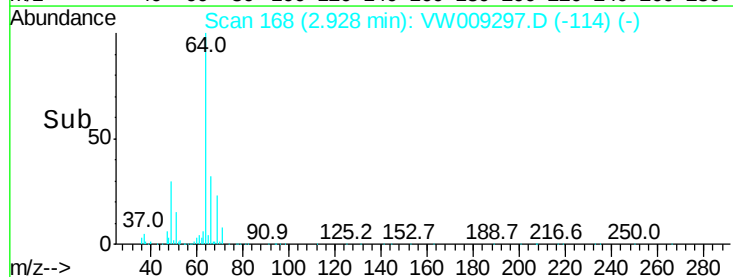
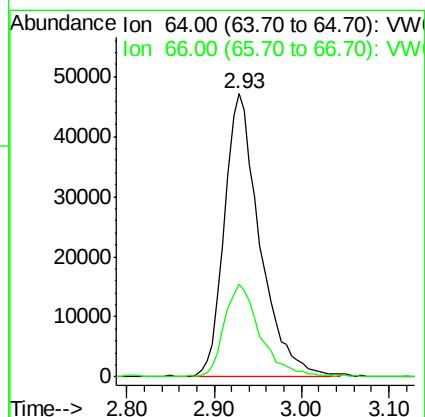
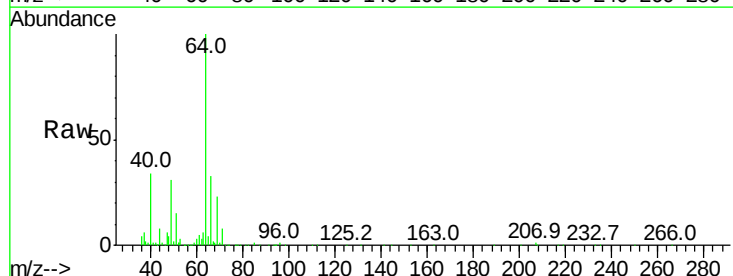
Acq: 20 Mar 2019 20:00

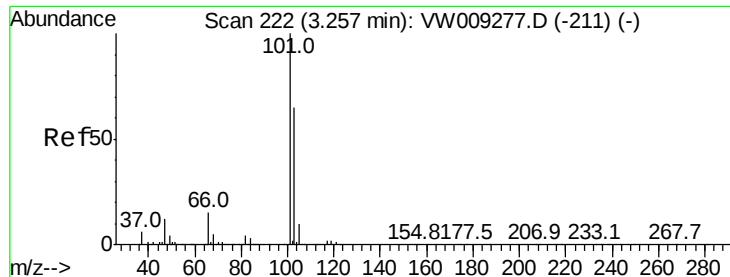
Tgt Ion: 64 Resp: 133108

Ion Ratio Lower Upper

64 100

66 32.6 25.1 46.7



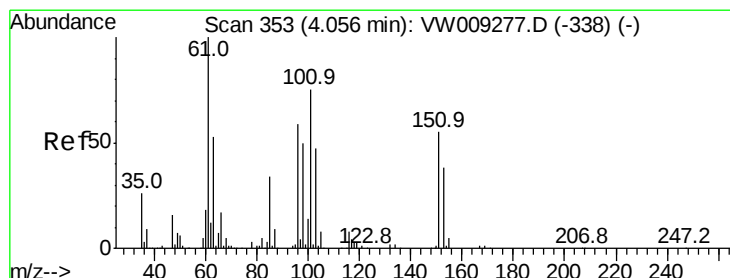
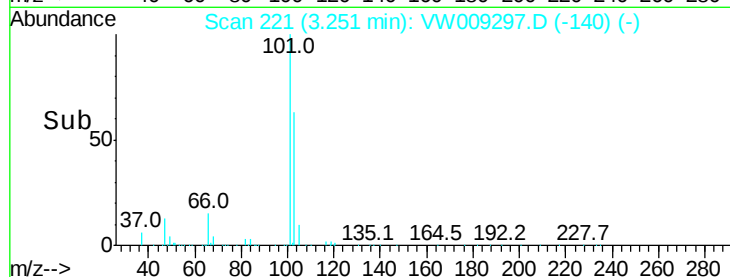
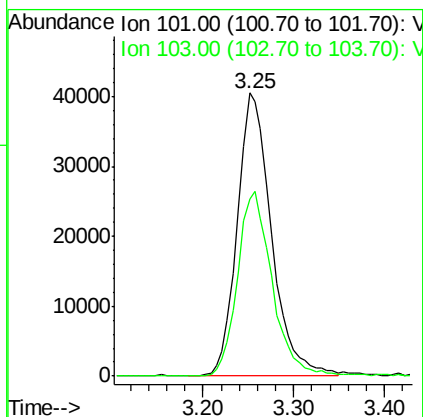
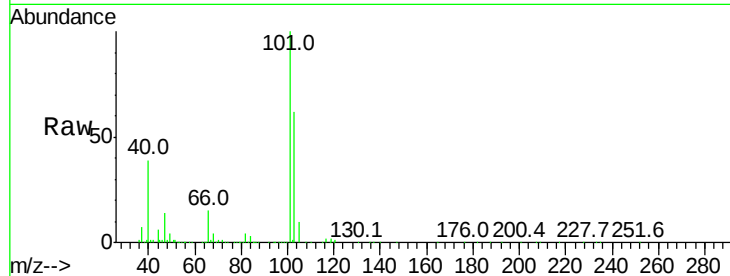


#9

Trichlorofluoromethane
 Concen: 21.334 ug/L
 RT: 3.25 min Scan# 221
 Delta R.T. -0.01 min
 Lab File: VW009297.D
 Acq: 20 Mar 2019 20:00

Instrument :
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 ClientSampleId :
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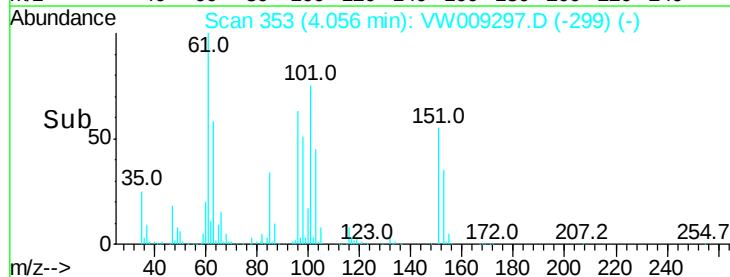
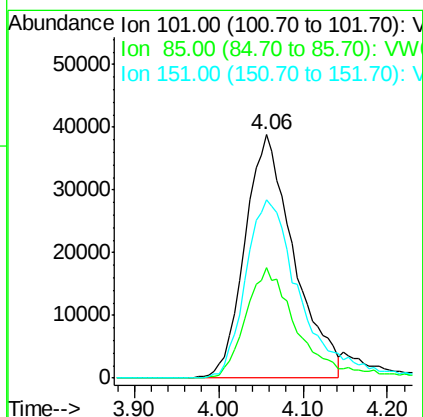
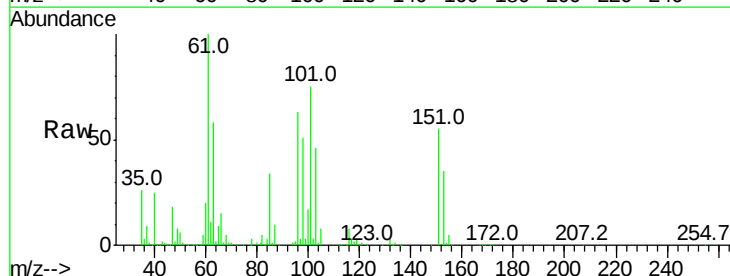
Tgt Ion:101 Resp: 106235
 Ion Ratio Lower Upper
 101 100
 103 66.1 45.0 83.6

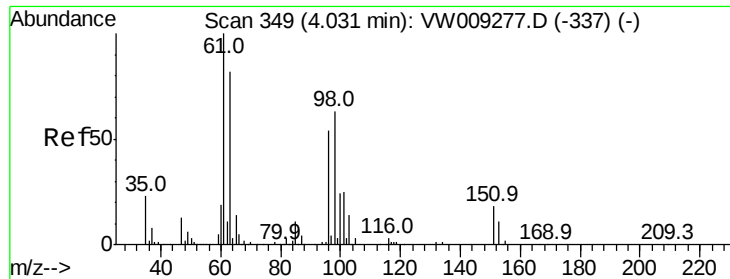


#11

1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 26.828 ug/L
 RT: 4.06 min Scan# 353
 Delta R.T. 0.00 min
 Lab File: VW009297.D
 Acq: 20 Mar 2019 20:00

Tgt Ion:101 Resp: 154278
 Ion Ratio Lower Upper
 101 100
 85 44.9 32.6 48.8
 151 79.2 63.3 94.9





#12

1,1-Dichloroethene

Concen: 29.522 ug/L

RT: 4.04 min Scan# 350

Delta R.T. 0.00 min

Lab File: VW009297.D

Acq: 20 Mar 2019 20:00

Instrument :

MSVOA_W

ClientSampleId :

VSTD02515

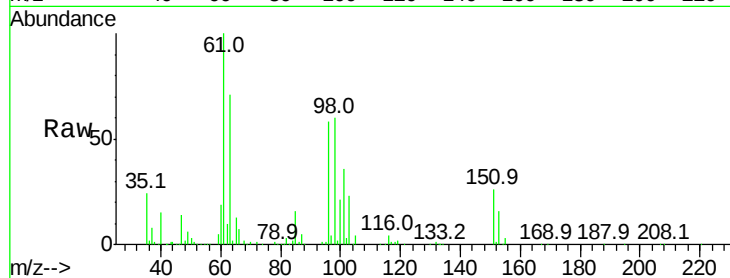
Tgt Ion: 96 Resp: 159307

Ion Ratio Lower Upper

96 100

61 172.2 129.4 240.2

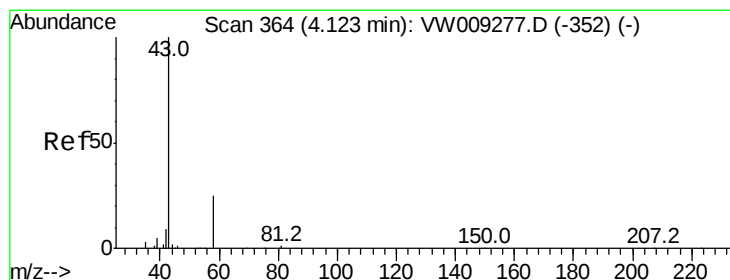
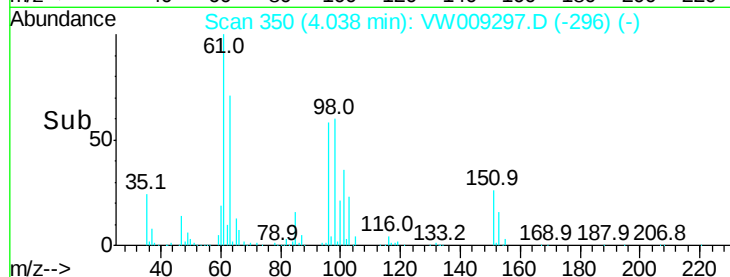
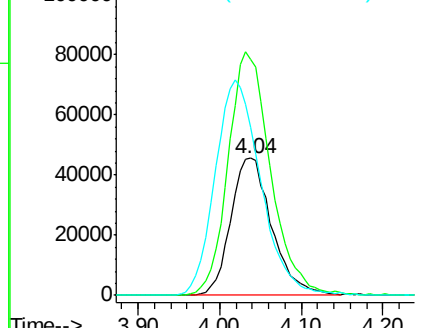
63 122.2 116.8 217.0



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: 57.136 ug/L

RT: 4.12 min Scan# 363

Delta R.T. -0.01 min

Lab File: VW009297.D

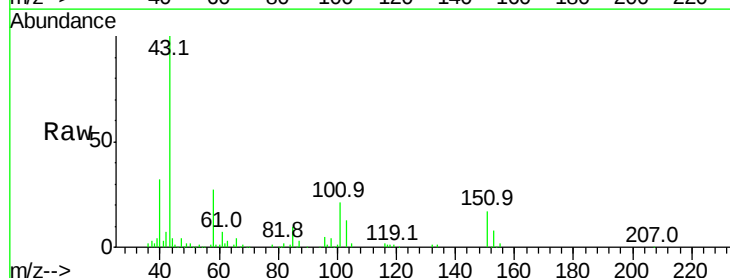
Acq: 20 Mar 2019 20:00

Tgt Ion: 43 Resp: 101471

Ion Ratio Lower Upper

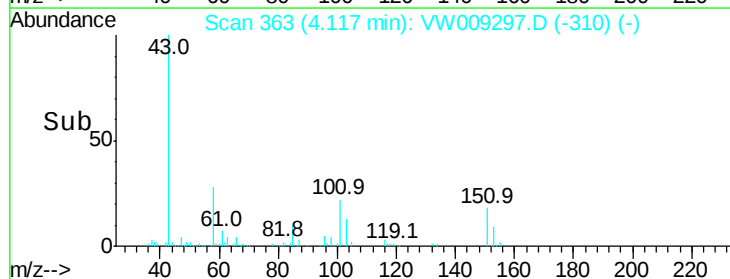
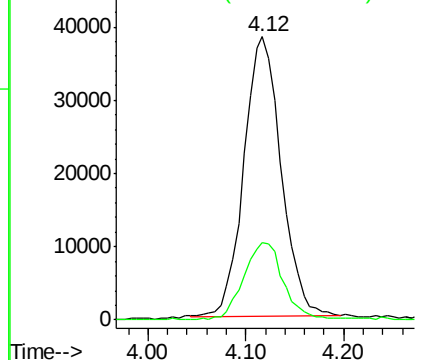
43 100

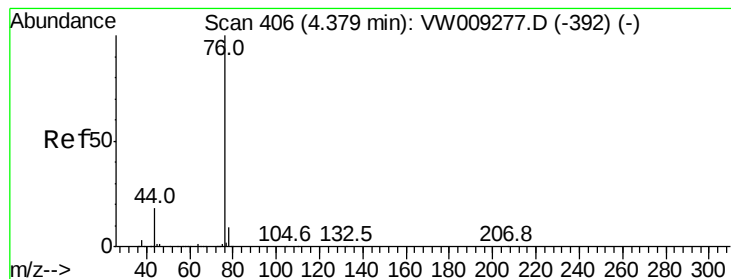
58 30.0 0.0 56.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#14

Carbon disulfide

Concen: 30.852 ug/L

RT: 4.38 min Scan# 406

Delta R.T. 0.00 min

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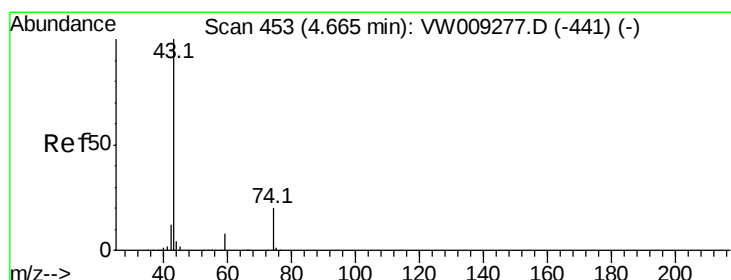
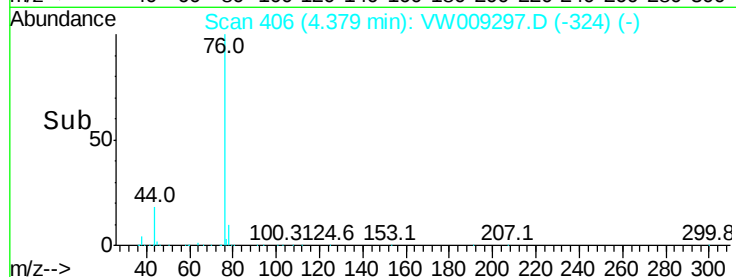
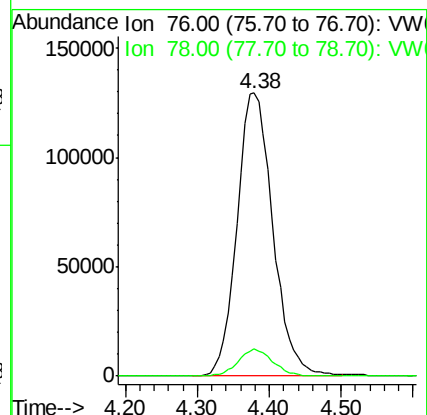
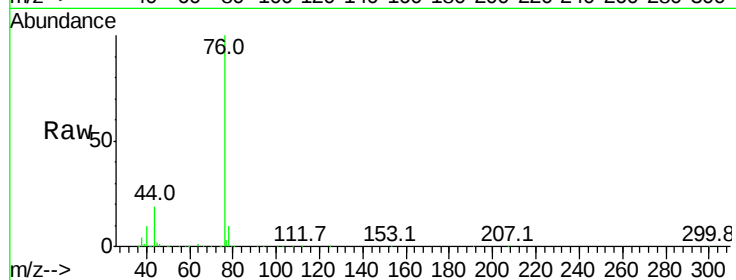
VSTD02515

Tgt Ion: 76 Resp: 448065

Ion Ratio Lower Upper

76 100

78 9.9 7.3 10.9



#15

Methyl Acetate

Concen: 28.638 ug/L

RT: 4.67 min Scan# 453

Delta R.T. 0.00 min

Lab File: VW009297.D

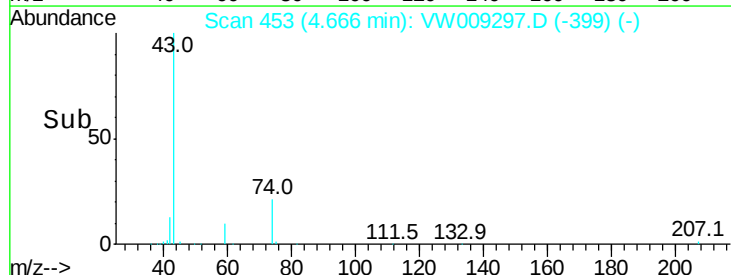
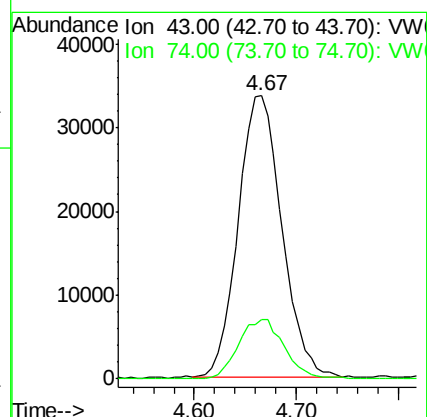
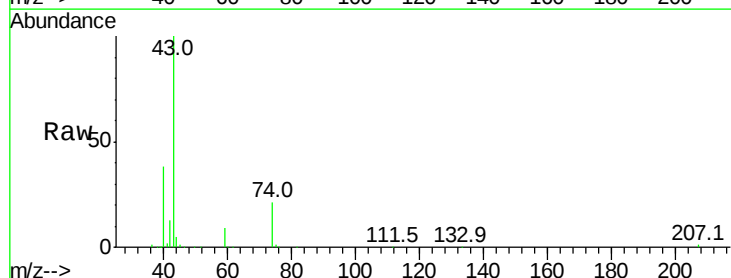
Acq: 20 Mar 2019 20:00

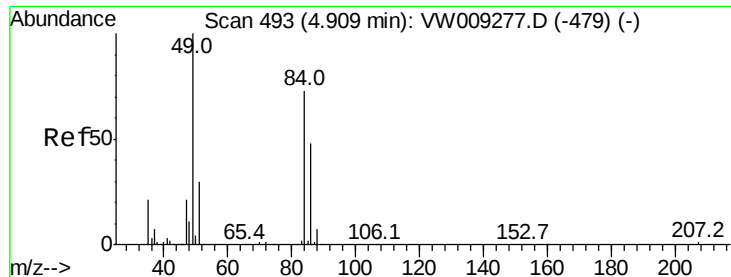
Tgt Ion: 43 Resp: 99915

Ion Ratio Lower Upper

43 100

74 21.9 16.7 25.1

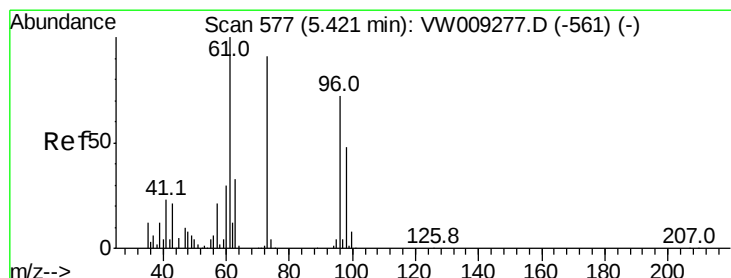
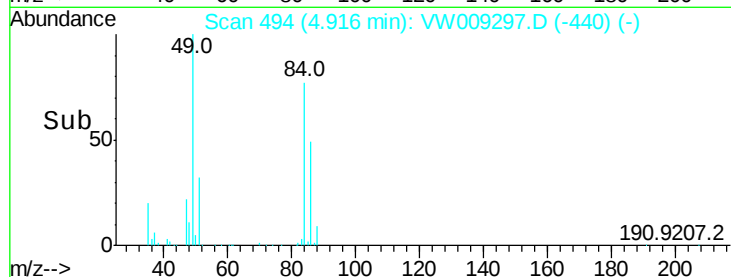
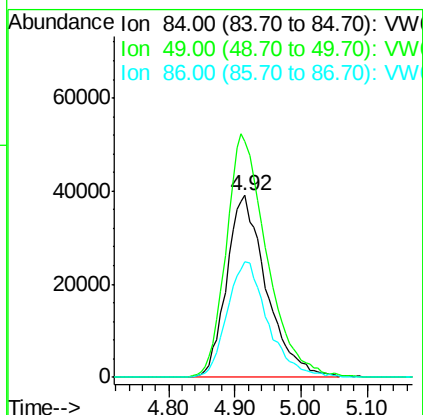
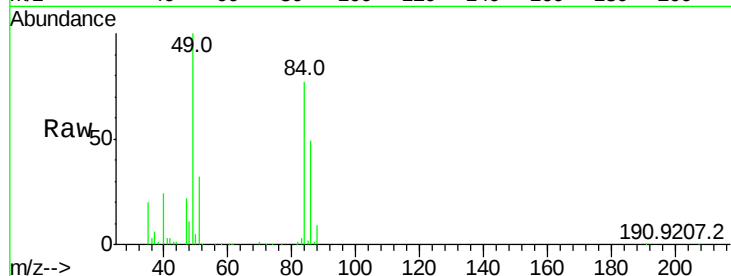




#16
Methylene chloride
Concen: 25.531 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW009297.D
Acq: 20 Mar 2019 20:00

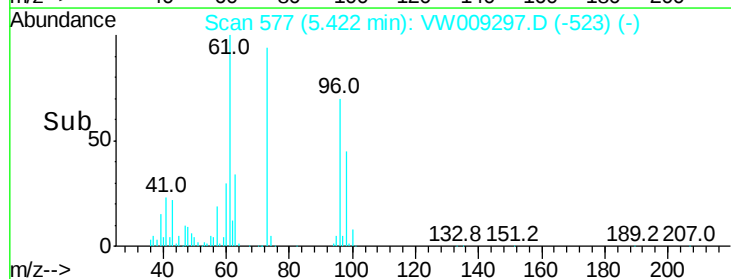
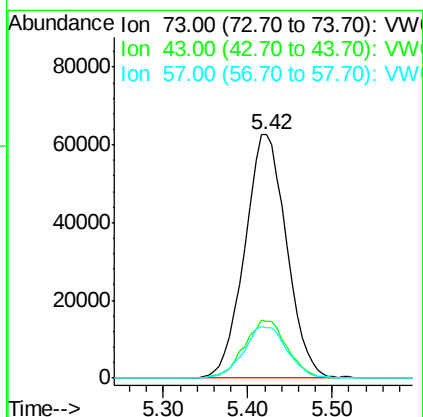
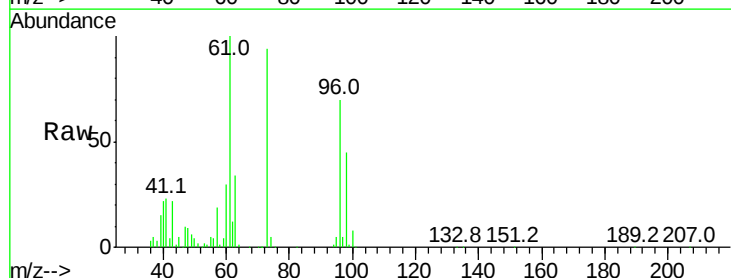
Instrument :
MSVOA_W
ClientSampleId :
VSTD02515

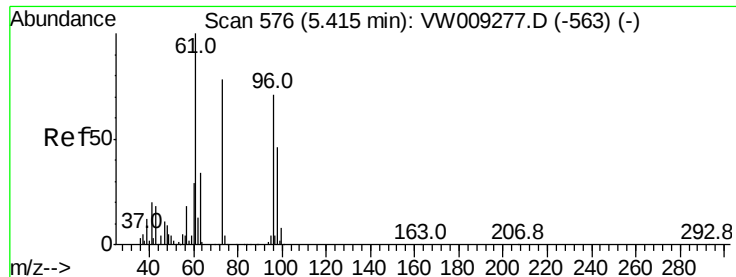
Tgt Ion: 84 Resp: 163151
Ion Ratio Lower Upper
84 100
49 129.3 96.0 178.2
86 63.1 44.4 82.5



#17
Methyl tert-butyl Ether
Concen: 27.790 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW009297.D
Acq: 20 Mar 2019 20:00

Tgt Ion: 73 Resp: 212189
Ion Ratio Lower Upper
73 100
43 24.4 18.2 27.4
57 22.0 17.8 26.8





#18

trans-1,2-Dichloroethene

Concen: 27.927 ug/L

RT: 5.41 min Scan# 575

Delta R.T. -0.01 min

Lab File: VW009297.D

Acq: 20 Mar 2019 20:00

Instrument :

MSVOA_W

ClientSampleId :

VSTD02515

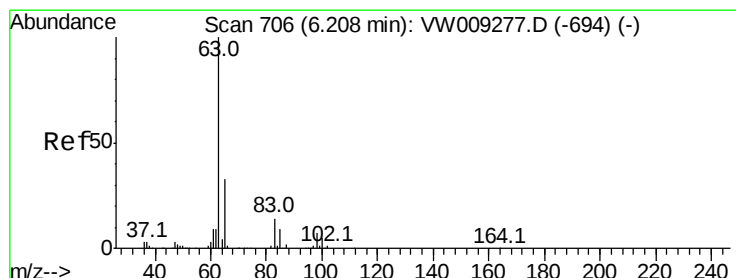
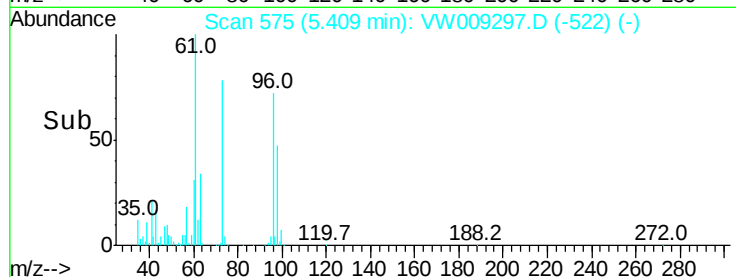
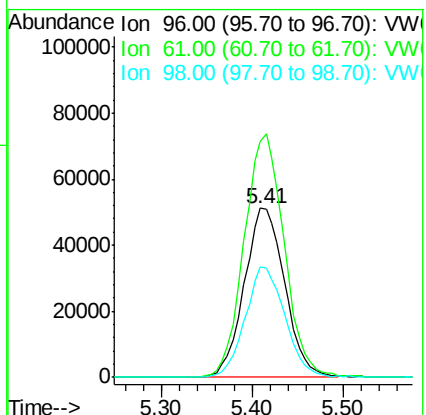
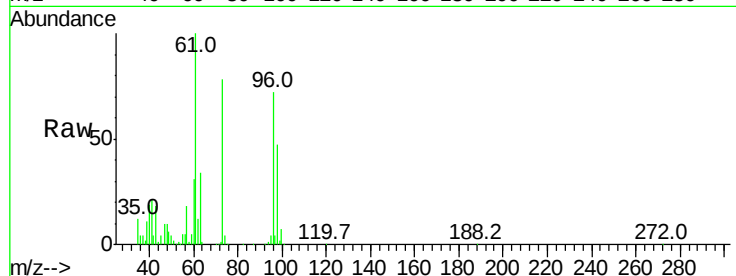
Tgt Ion: 96 Resp: 158445

Ion Ratio Lower Upper

96 100

61 139.5 96.7 179.5

98 65.1 43.8 81.4



#19

1,1-Dichloroethane

Concen: 28.314 ug/L

RT: 6.21 min Scan# 706

Delta R.T. 0.00 min

Lab File: VW009297.D

Acq: 20 Mar 2019 20:00

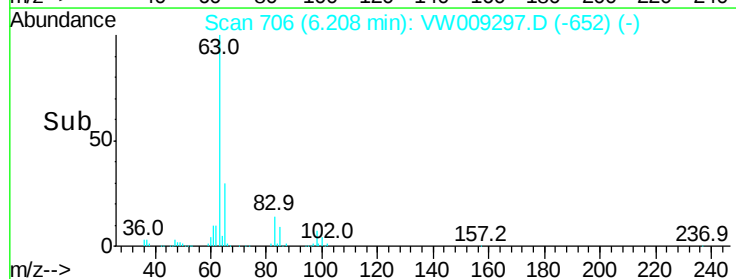
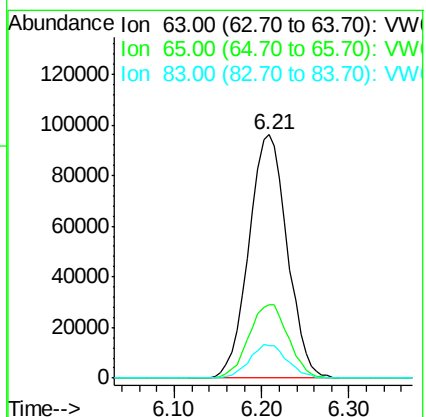
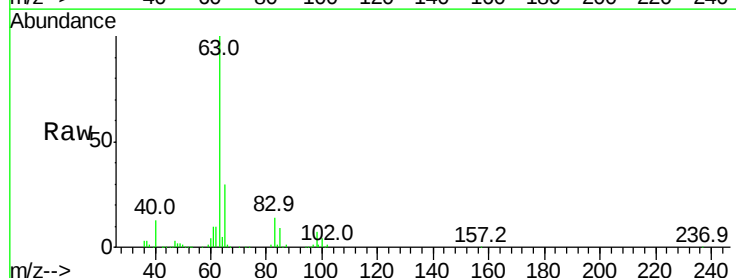
Tgt Ion: 63 Resp: 292903

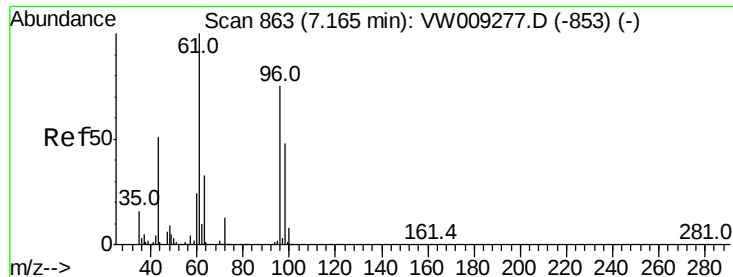
Ion Ratio Lower Upper

63 100

65 30.1 21.6 40.0

83 13.6 10.1 18.7





#21

2-Butanone

Concen: 60.024 ug/L

RT: 7.17 min Scan# 863

Delta R.T. -0.01 min

Lab File: VW009297.D

Acq: 20 Mar 2019 20:00

Instrument :

MSVOA_W

ClientSampleId :

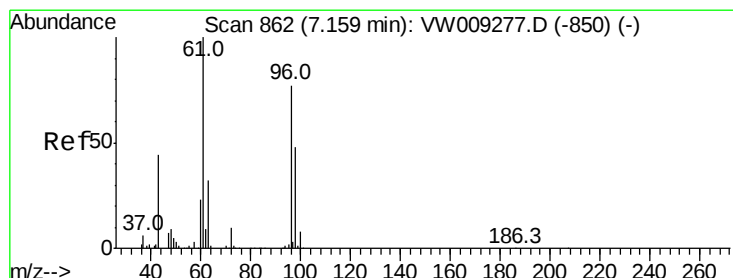
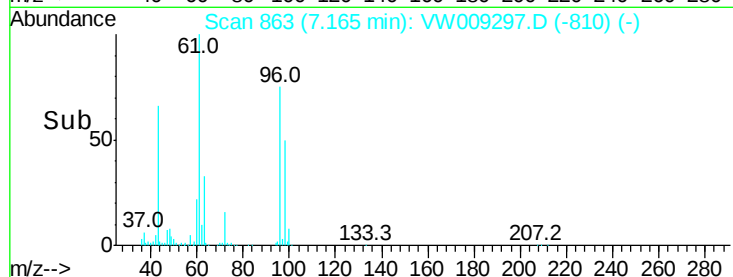
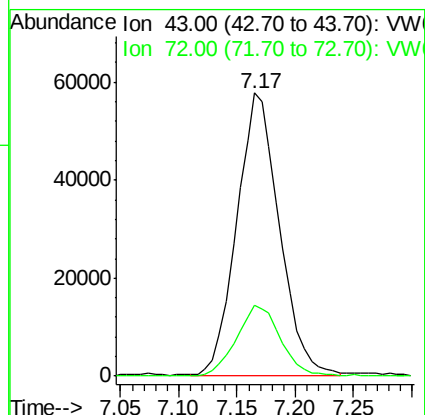
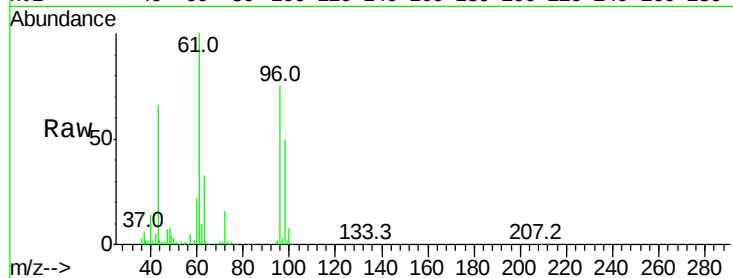
VSTD02515

Tgt Ion: 43 Resp: 147188

Ion Ratio Lower Upper

43 100

72 25.8 13.1 39.1



#22

cis-1,2-Dichloroethene

Concen: 28.504 ug/L

RT: 7.16 min Scan# 862

Delta R.T. 0.00 min

Lab File: VW009297.D

Acq: 20 Mar 2019 20:00

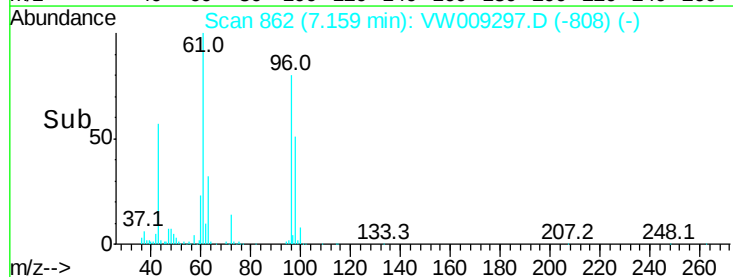
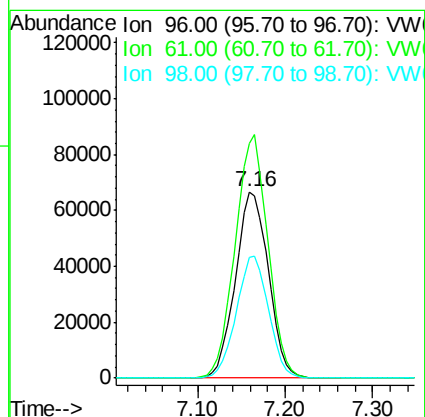
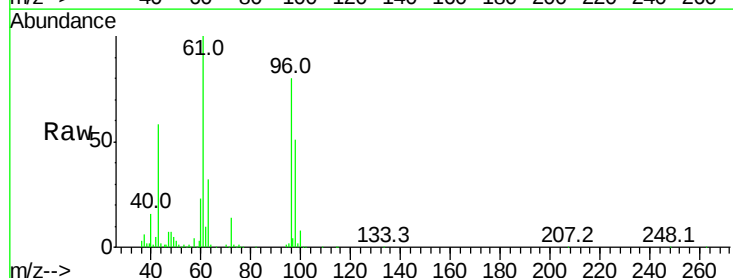
Tgt Ion: 96 Resp: 175182

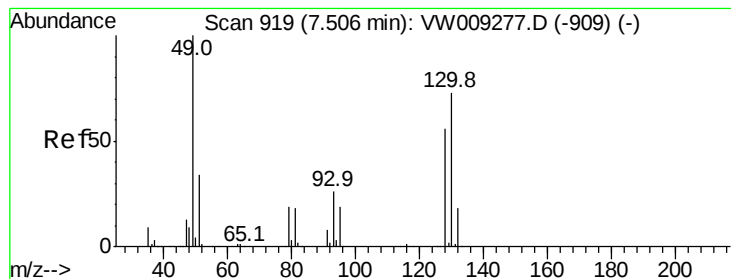
Ion Ratio Lower Upper

96 100

61 125.6 90.6 168.3

98 64.6 44.0 81.8





#23

Bromochloromethane

Concen: 27.854 ug/L

RT: 7.51 min Scan# 919

Delta R.T. 0.00 min

Lab File: VW009297.D

Acq: 20 Mar 2019 20:00

Instrument :

MSVOA_W

ClientSampled :

VSTD02515

Tgt Ion:128 Resp: 82106

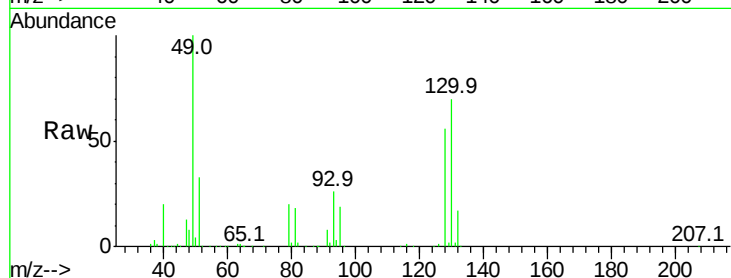
Ion Ratio Lower Upper

128 100

49 179.9 118.4 219.8

130 125.5 87.8 163.2

51 59.7 44.6 67.0

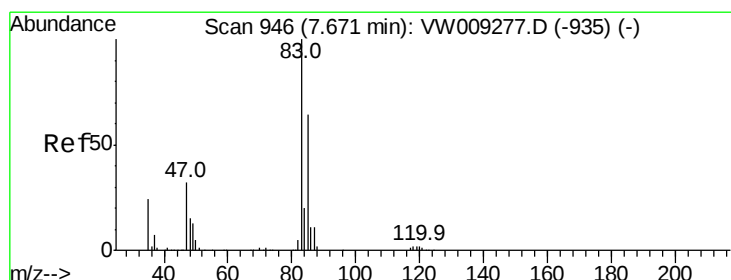
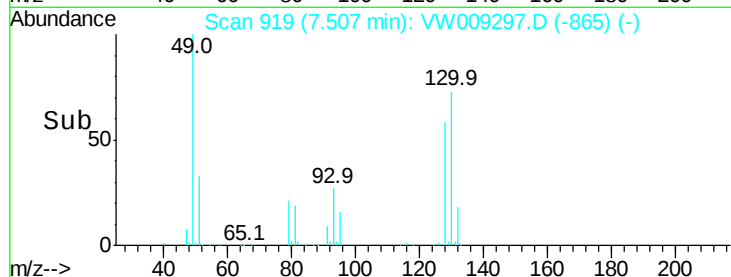
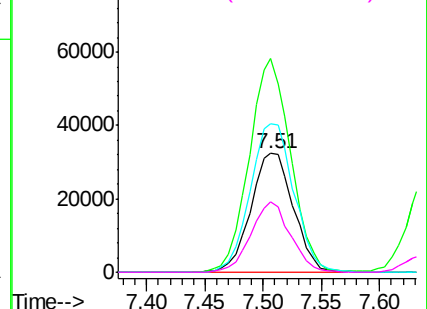


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VV

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VV



#25

Chloroform

Concen: 28.666 ug/L

RT: 7.67 min Scan# 946

Delta R.T. 0.00 min

Lab File: VW009297.D

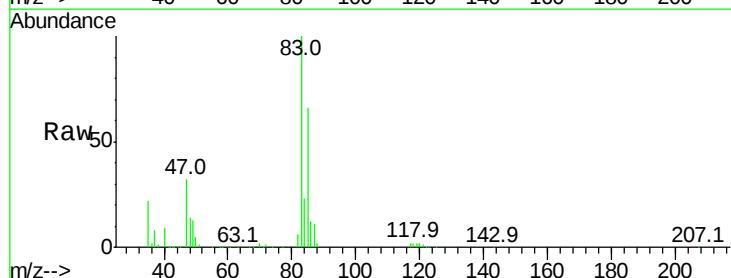
Acq: 20 Mar 2019 20:00

Tgt Ion: 83 Resp: 310548

Ion Ratio Lower Upper

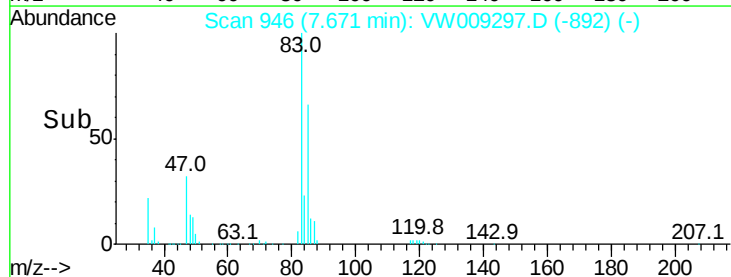
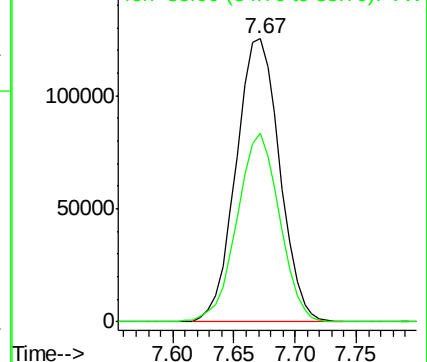
83 100

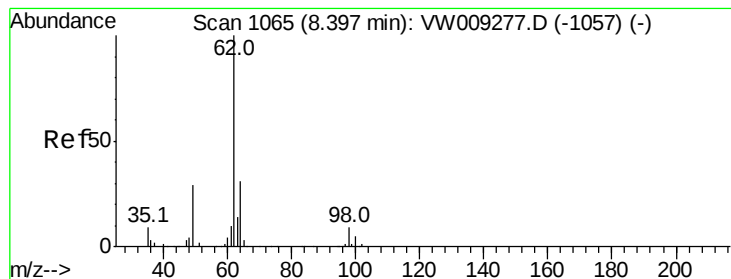
85 65.0 46.0 85.4



Abundance Ion 83.00 (82.70 to 83.70): VV

Ion 85.00 (84.70 to 85.70): VV





#27

1,2-Dichloroethane

Concen: 28.850 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VW009297.D

Acq: 20 Mar 2019 20:00

Instrument :

MSVOA_W

ClientSampleId :

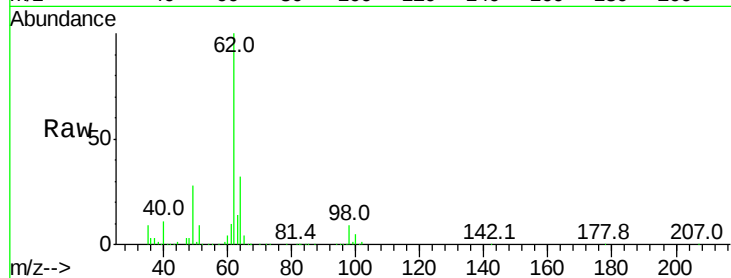
VSTD02515

Tgt Ion: 62 Resp: 233026

Ion Ratio Lower Upper

62 100

98 9.2 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

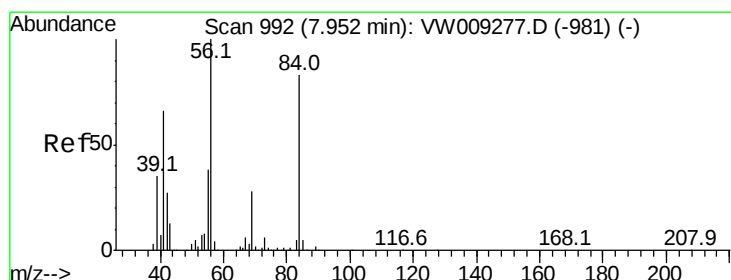
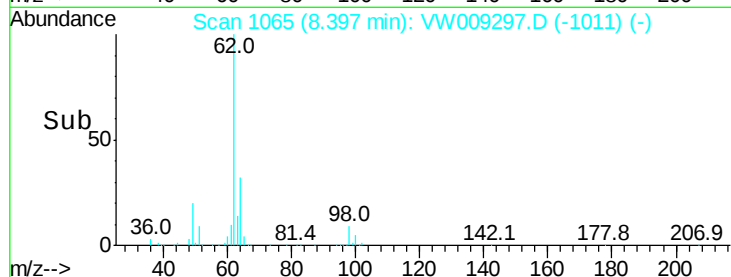
60000

40000

20000

0

Time--> 8.30 8.35 8.40 8.45 8.50



#30

Cyclohexane

Concen: 28.010 ug/L

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW009297.D

Acq: 20 Mar 2019 20:00

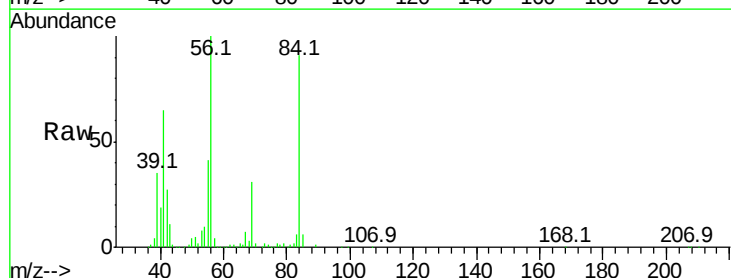
Tgt Ion: 56 Resp: 267921

Ion Ratio Lower Upper

56 100

69 30.3 24.0 36.0

84 86.2 69.2 103.8



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW

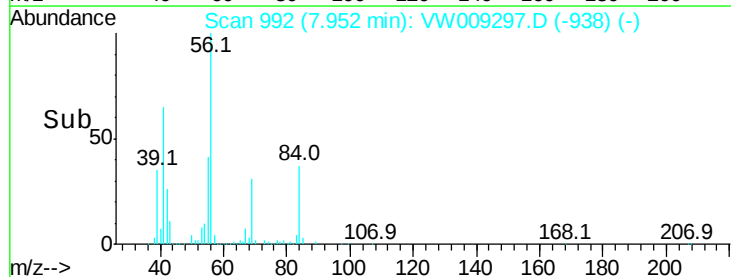
7.95

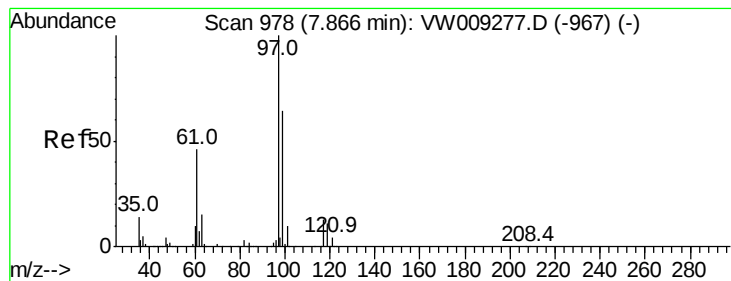
100000

50000

0

Time--> 7.80 7.90 8.00 8.10





#31

1,1,1-Trichloroethane

Concen: 28.016 ug/L

RT: 7.87 min Scan# 978

Delta R.T. 0.00 min

Lab File: VW009297.D

Acq: 20 Mar 2019 20:00

Instrument :

MSVOA_W

ClientSampleId :

VSTD02515

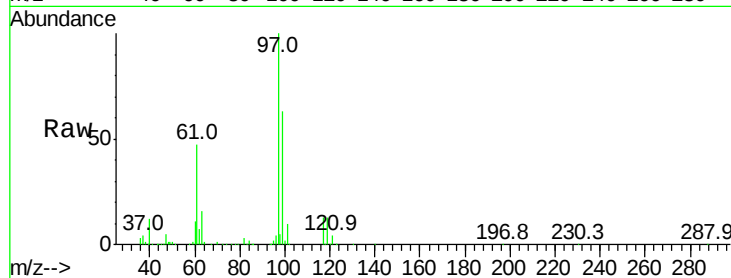
Tgt Ion: 97 Resp: 235668

Ion Ratio Lower Upper

97 100

99 65.6 51.2 76.8

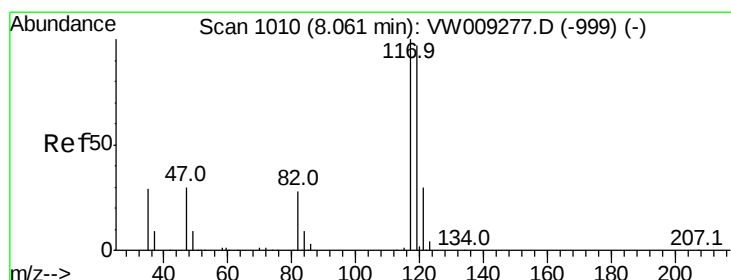
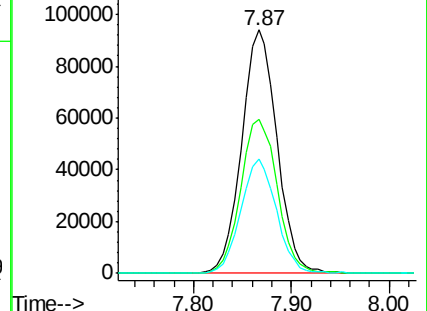
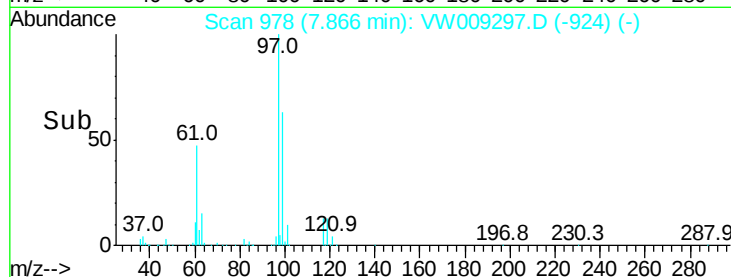
61 47.3 38.4 57.6



Abundance Ion 97.00 (96.70 to 97.70): VW

Ion 99.00 (98.70 to 99.70): VW

Ion 61.00 (60.70 to 61.70): VW



#32

Carbon tetrachloride

Concen: 29.235 ug/L

RT: 8.06 min Scan# 1010

Delta R.T. 0.00 min

Lab File: VW009297.D

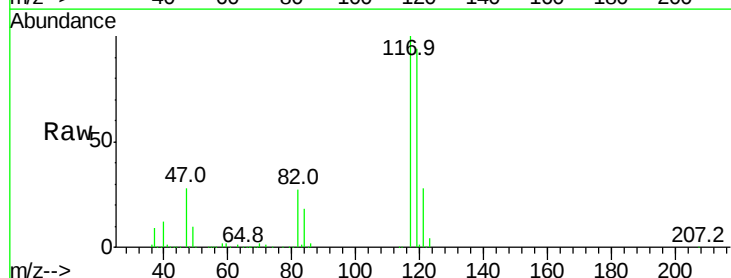
Acq: 20 Mar 2019 20:00

Tgt Ion: 117 Resp: 248119

Ion Ratio Lower Upper

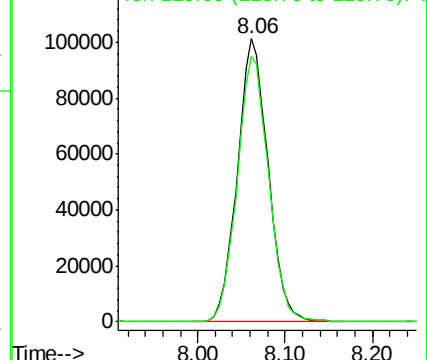
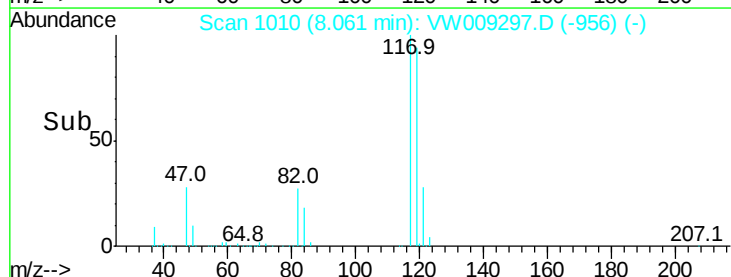
117 100

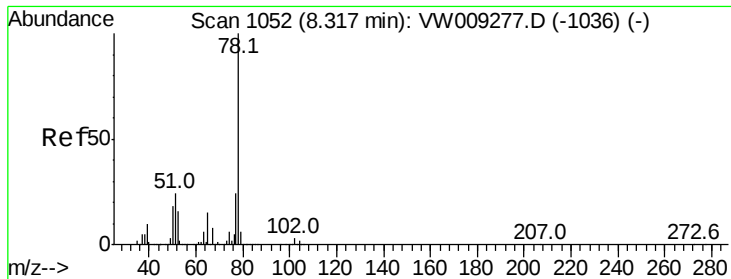
119 95.6 78.0 117.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V





#34

Benzene

Concen: 28.377 ug/L

RT: 8.32 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VW009297.D

Acq: 20 Mar 2019 20:00

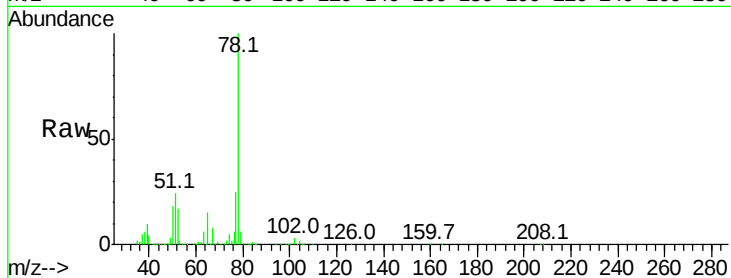
Instrument :

MSVOA_W

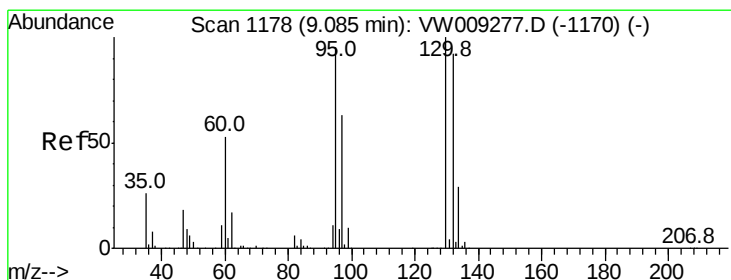
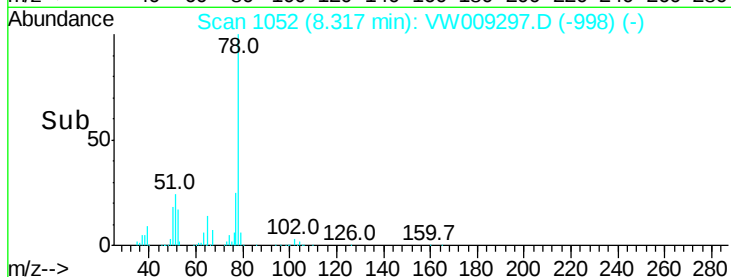
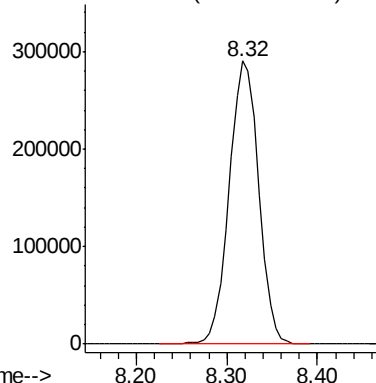
ClientSampleId :

VSTD02515

Tgt Ion: 78 Resp: 654159



Abundance Ion 78.00 (77.70 to 78.70): VW



#35

Trichloroethene

Concen: 28.061 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. -0.01 min

Lab File: VW009297.D

Acq: 20 Mar 2019 20:00

Tgt Ion: 95 Resp: 172371

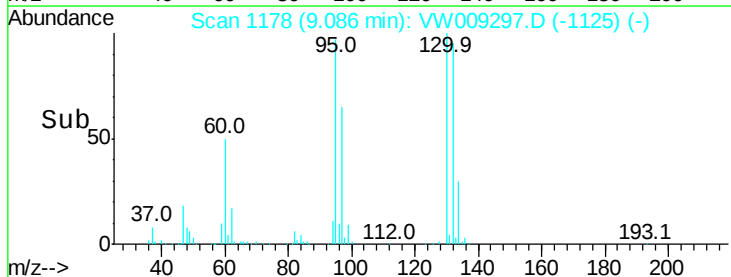
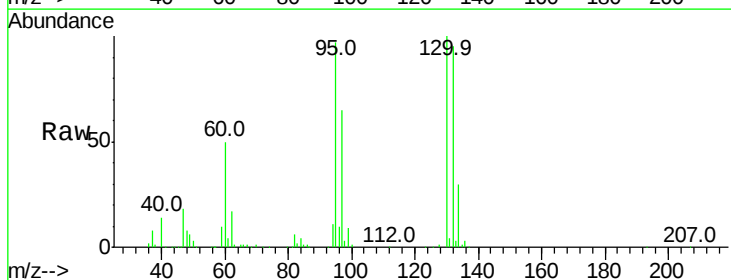
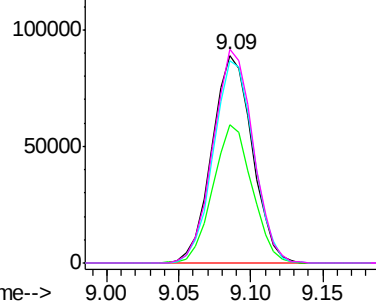
Ion	Ratio	Lower	Upper
95	100		
97	64.7	44.7	82.9
132	97.0	69.0	128.2
130	102.0	72.7	134.9

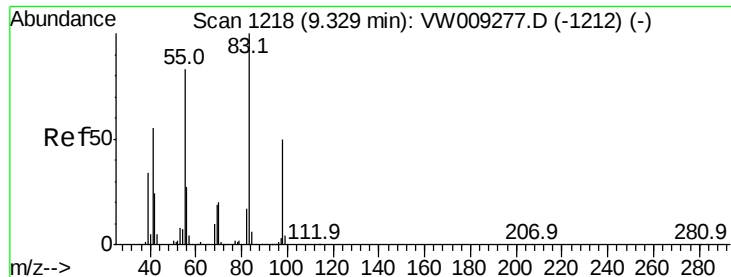
Abundance Ion 95.00 (94.70 to 95.70): VW

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

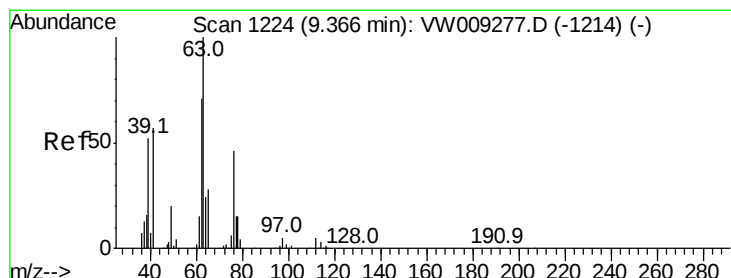
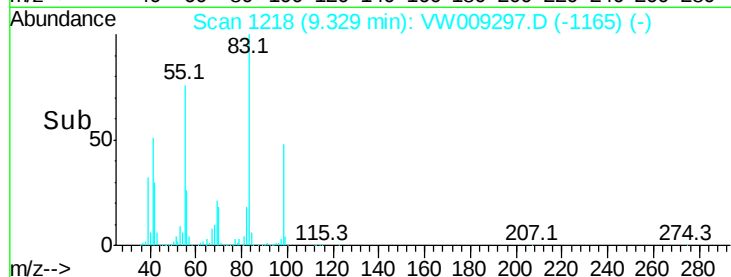
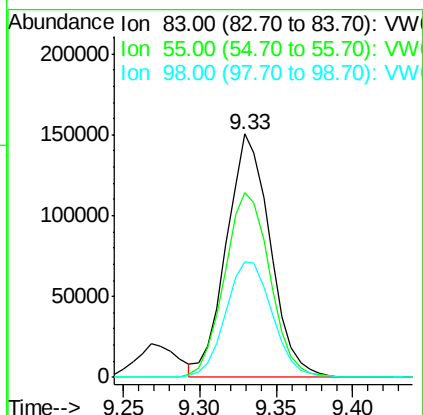
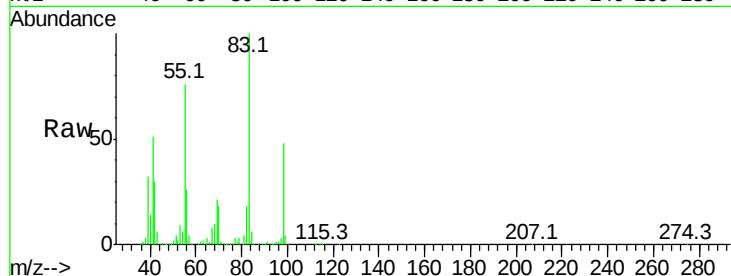




#36
Methylcyclohexane
Concen: 28.121 ug/L
RT: 9.33 min Scan# 1218
Delta R.T. -0.01 min
Lab File: VW009297.D
Acq: 20 Mar 2019 20:00

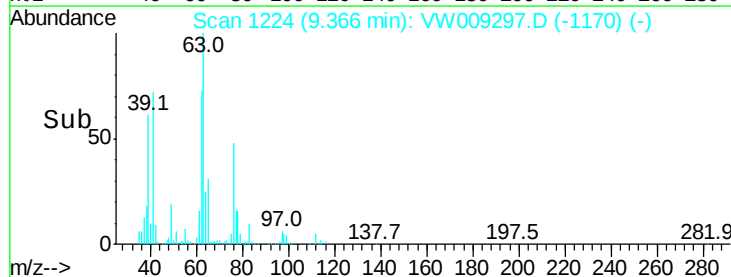
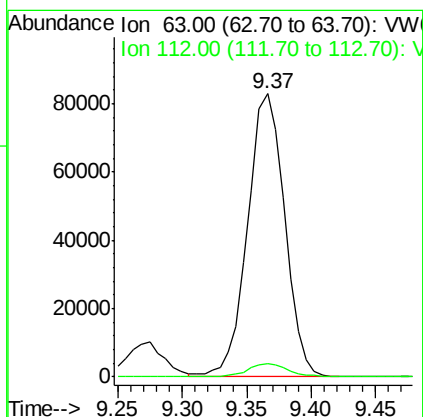
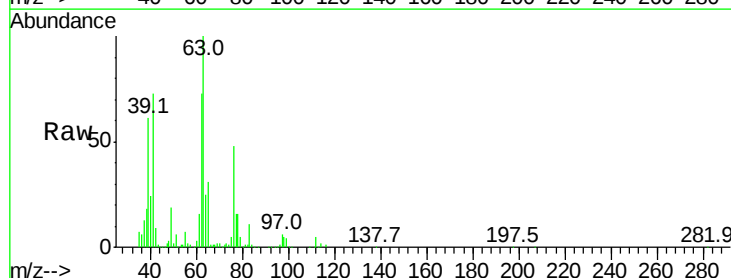
Instrument :
MSVOA_W
ClientSampleId :
VSTD02515

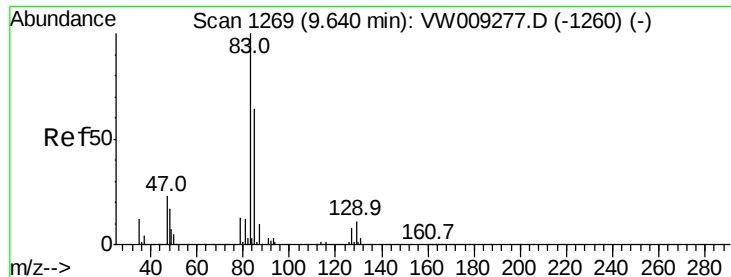
Tgt Ion	Ratio	Lower	Upper
83	100		
55	79.1	63.5	95.3
98	50.8	39.8	59.8



#40
1,2-Dichloropropane
Concen: 27.989 ug/L
RT: 9.37 min Scan# 1224
Delta R.T. 0.00 min
Lab File: VW009297.D
Acq: 20 Mar 2019 20:00

Tgt Ion	Ratio	Lower	Upper
63	100		
112	5.0	4.0	6.0





#41

Bromodichloromethane

Concen: 28.046 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VW009297.D

Acq: 20 Mar 2019 20:00

Instrument :

MSVOA_W

ClientSampleId :

VSTD02515

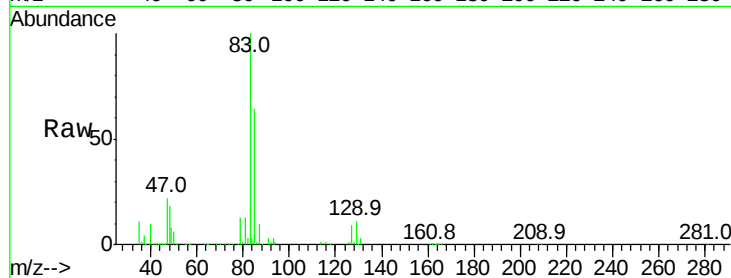
Tgt Ion: 83 Resp: 229877

Ion Ratio Lower Upper

83 100

85 64.3 43.5 80.7

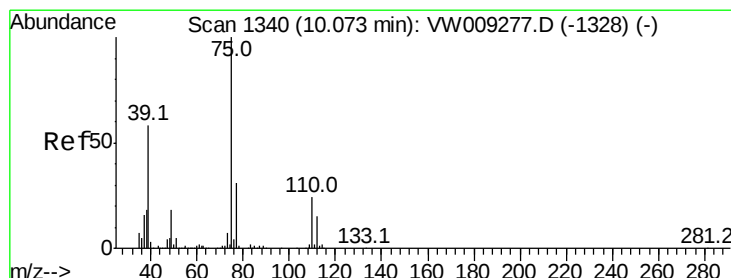
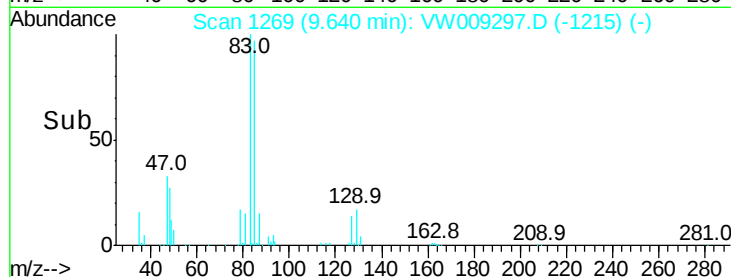
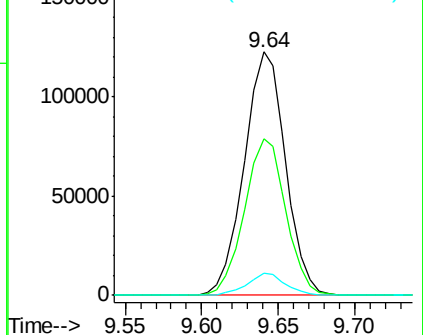
127 9.1 6.2 9.4



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): VW



#42

cis-1,3-Dichloropropene

Concen: 27.784 ug/L

RT: 10.07 min Scan# 1339

Delta R.T. -0.01 min

Lab File: VW009297.D

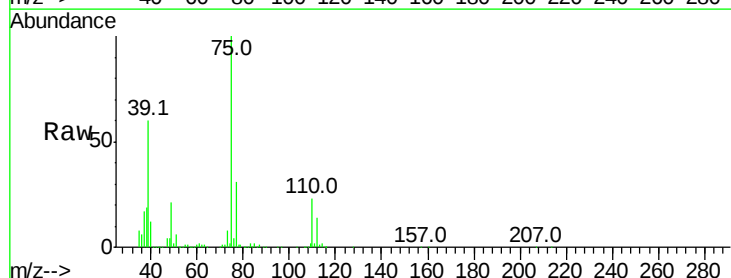
Acq: 20 Mar 2019 20:00

Tgt Ion: 75 Resp: 267688

Ion Ratio Lower Upper

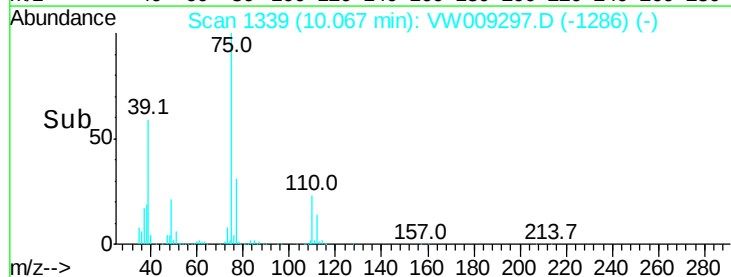
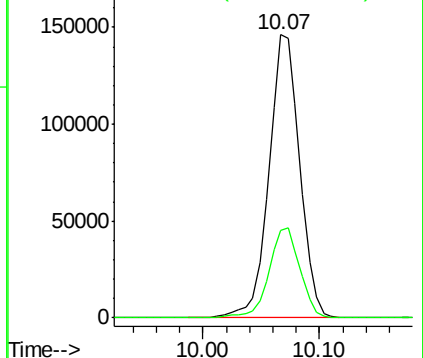
75 100

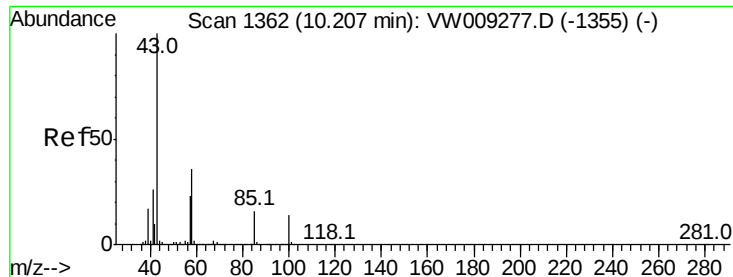
77 30.8 21.6 40.2



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

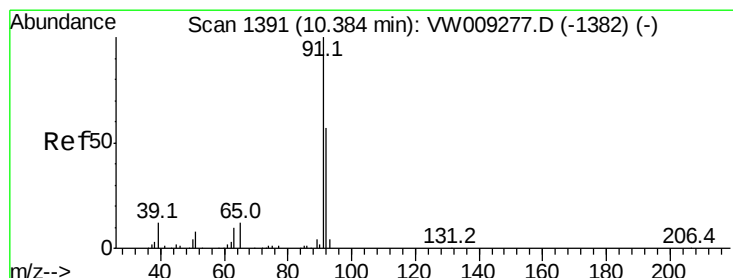
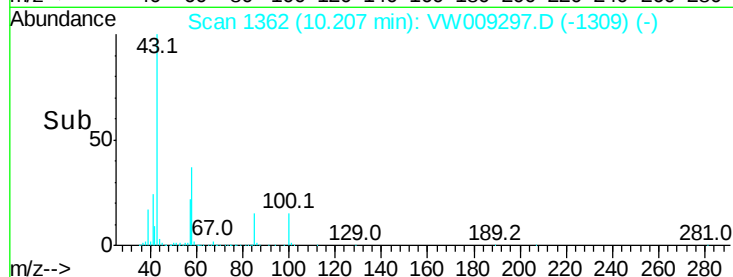
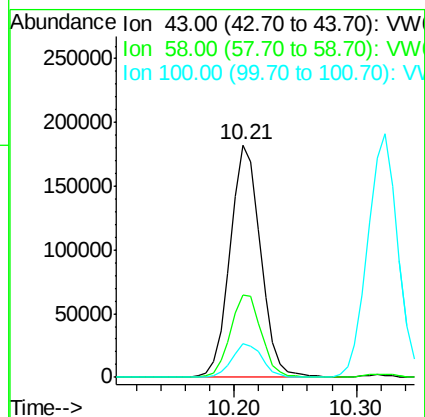
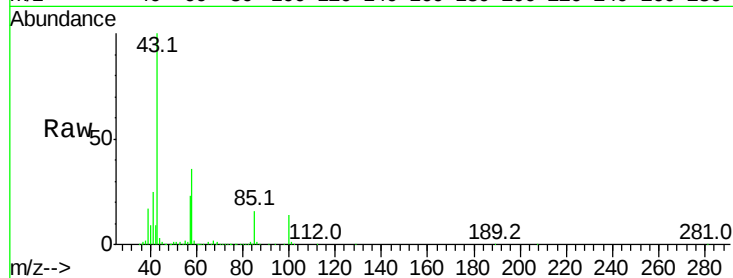




#43
4-Methyl-2-pentanone
Concen: 58.389 ug/L
RT: 10.21 min Scan# 1362
Delta R.T. -0.01 min
Lab File: VW009297.D
Acq: 20 Mar 2019 20:00

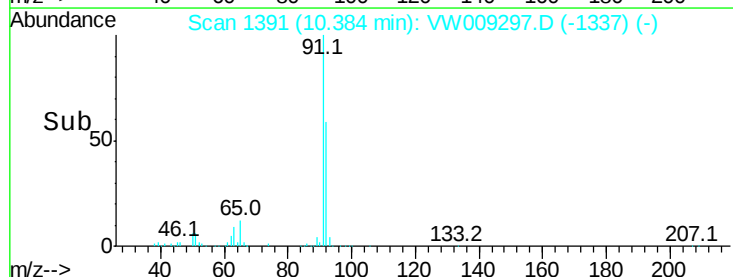
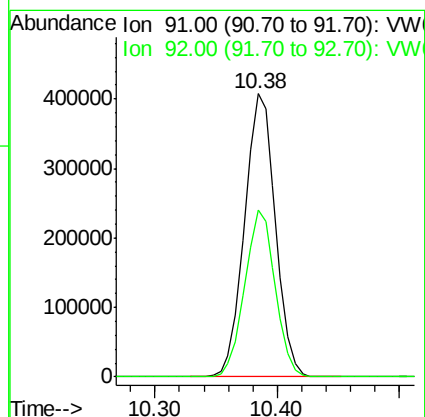
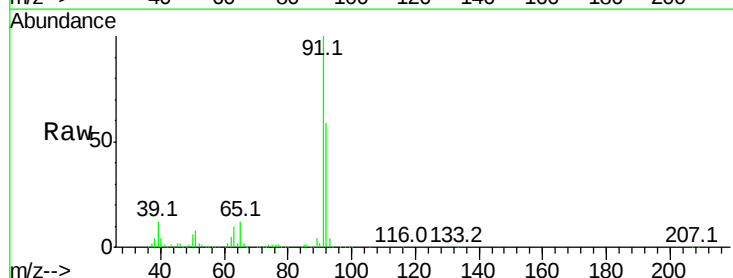
Instrument :
MSVOA_W
ClientSampleId :
VSTD02515

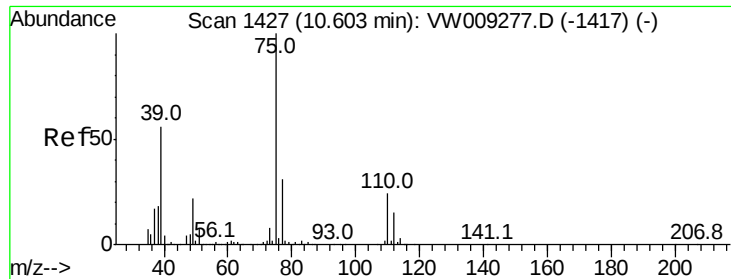
Tgt Ion: 43 Resp: 312986
Ion Ratio Lower Upper
43 100
58 36.3 28.2 42.2
100 14.5 11.4 17.2



#44
Toluene
Concen: 28.248 ug/L
RT: 10.38 min Scan# 1391
Delta R.T. 0.00 min
Lab File: VW009297.D
Acq: 20 Mar 2019 20:00

Tgt Ion: 91 Resp: 711981
Ion Ratio Lower Upper
91 100
92 59.1 39.8 73.8





#45

trans-1,3-Dichloropropene

Concen: 28.290 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW009297.D

Acq: 20 Mar 2019 20:00

Instrument :

MSVOA_W

ClientSampleId :

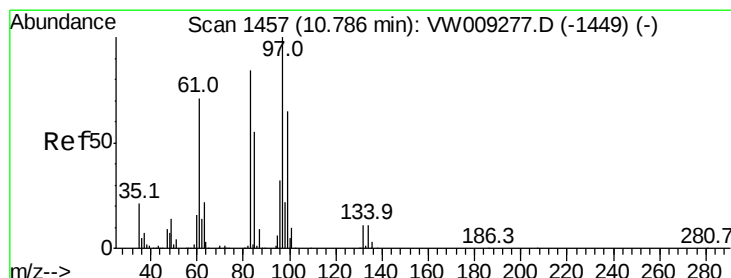
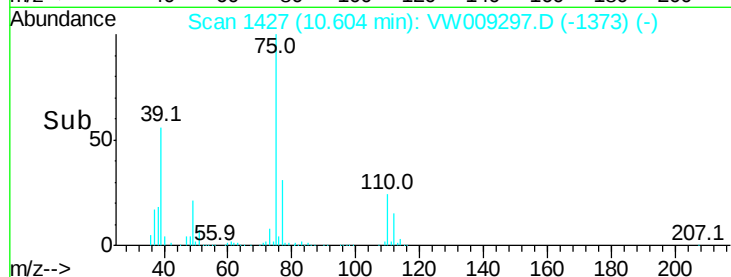
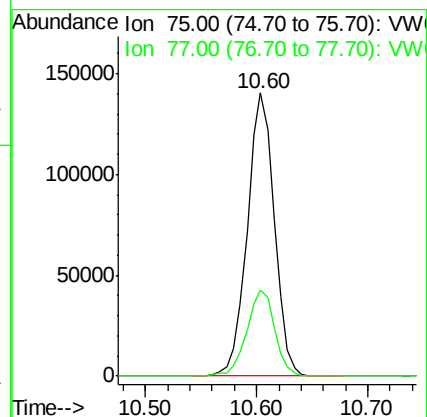
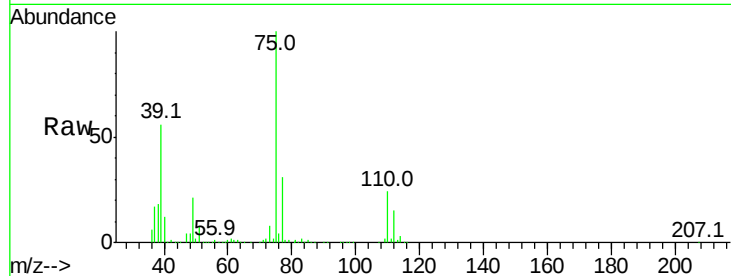
VSTD02515

Tgt Ion: 75 Resp: 237101

Ion Ratio Lower Upper

75 100

77 30.6 22.5 41.7



#46

1,1,2-Trichloroethane

Concen: 28.434 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW009297.D

Acq: 20 Mar 2019 20:00

Tgt Ion: 97 Resp: 134190

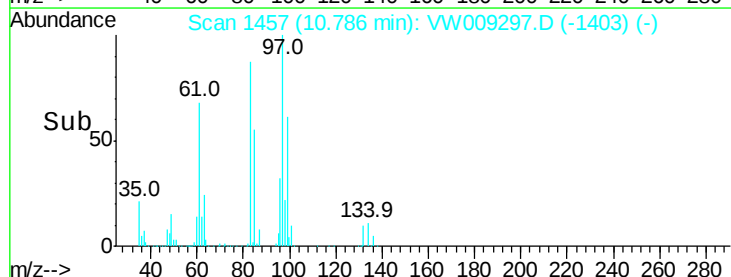
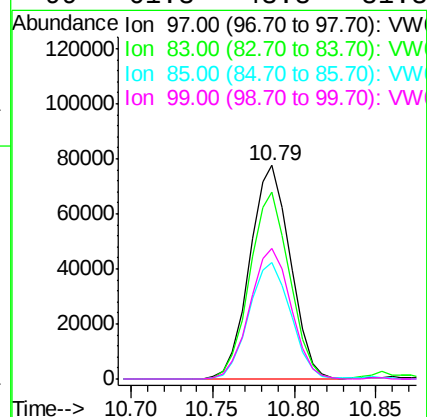
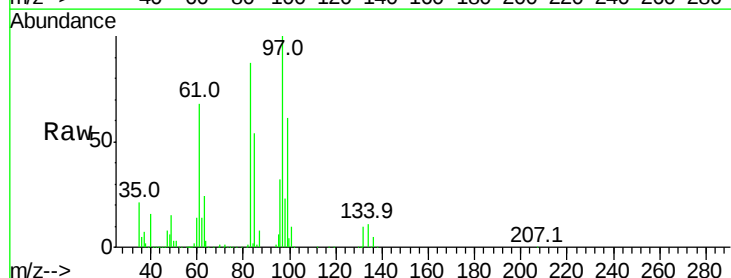
Ion Ratio Lower Upper

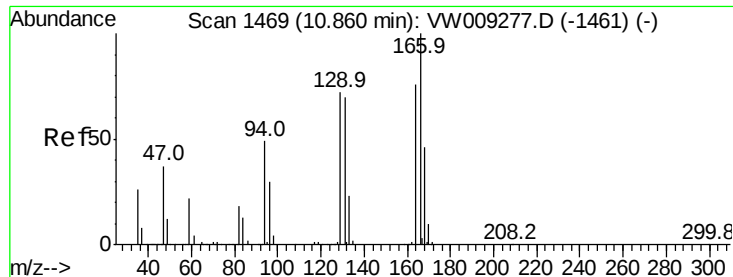
97 100

83 87.3 60.7 112.7

85 54.5 40.1 74.5

99 61.3 43.8 81.3





#47

Tetrachloroethene

Concen: 27.821 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW009297.D

Acq: 20 Mar 2019 20:00

Instrument :

MSVOA_W

ClientSampleId :

VSTD02515

Tgt Ion:164 Resp: 144398

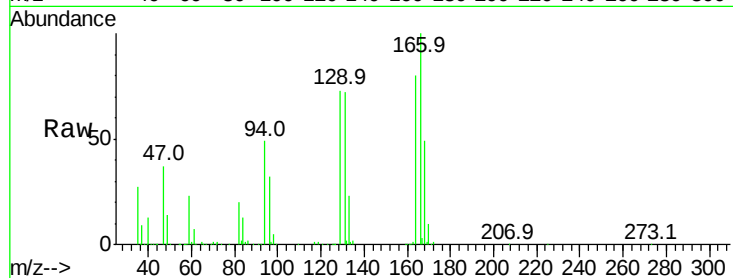
Ion Ratio Lower Upper

164 100

129 91.1 66.5 123.5

131 90.5 62.6 116.3

166 125.4 91.6 170.0

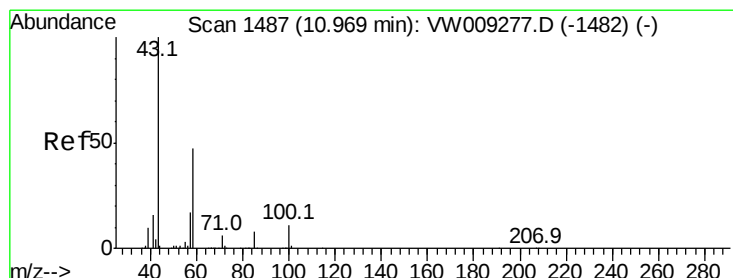
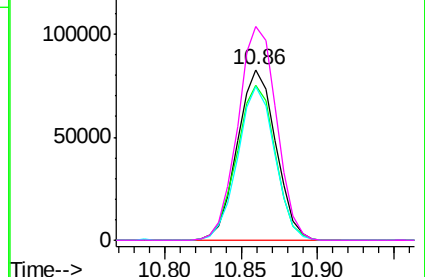
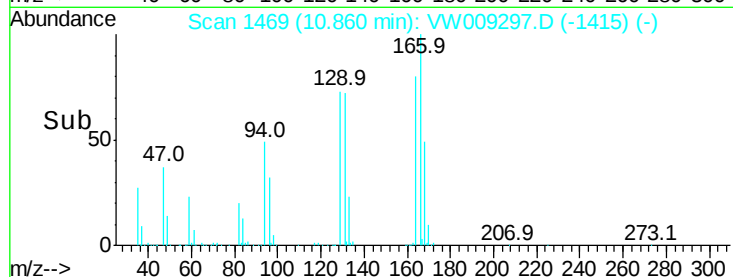


Abundance Ion 164.00 (163.70 to 164.70): V

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: 60.863 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW009297.D

Acq: 20 Mar 2019 20:00

Tgt Ion: 43 Resp: 229777

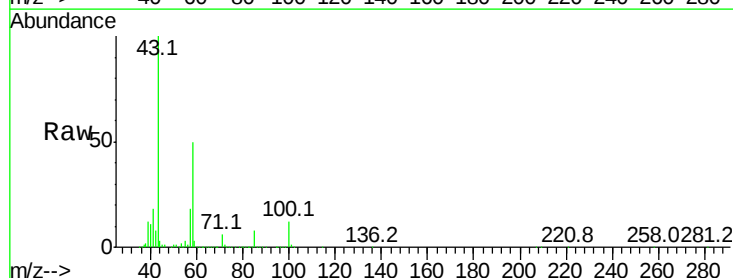
Ion Ratio Lower Upper

43 100

58 51.6 39.2 58.8

57 18.0 14.2 21.2

100 11.8 8.9 13.3

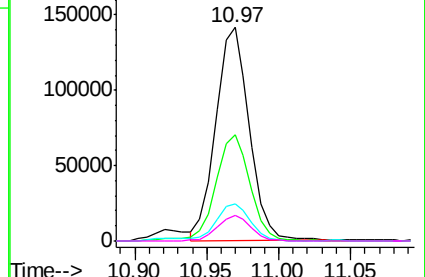
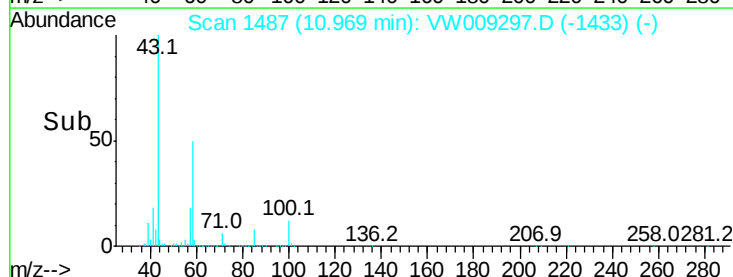


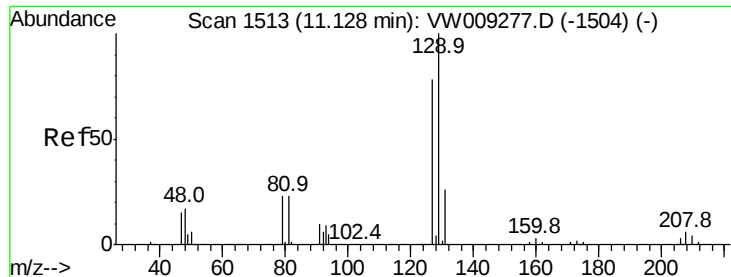
Abundance Ion 43.00 (42.70 to 43.70): VV

Ion 58.00 (57.70 to 58.70): VV

Ion 57.00 (56.70 to 57.70): VV

Ion 100.00 (99.70 to 100.70): VV





#50

Dibromochloromethane

Concen: 28.366 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW009297.D

Acq: 20 Mar 2019 20:00

Instrument :

MSVOA_W

ClientSampleId :

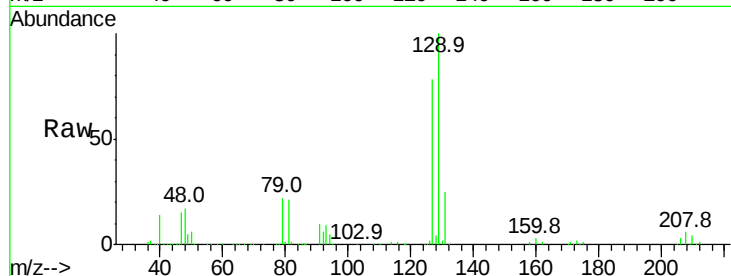
VSTD02515

Tgt Ion:129 Resp: 165252

Ion Ratio Lower Upper

129 100

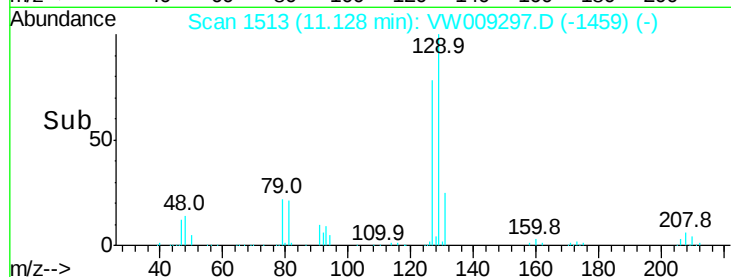
127 77.9 56.8 105.6



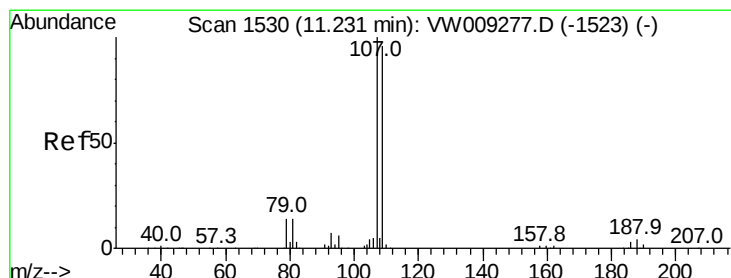
Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

11.13



Time-->



#51

1,2-Dibromoethane

Concen: 28.540 ug/L

RT: 11.23 min Scan# 1530

Delta R.T. 0.00 min

Lab File: VW009297.D

Acq: 20 Mar 2019 20:00

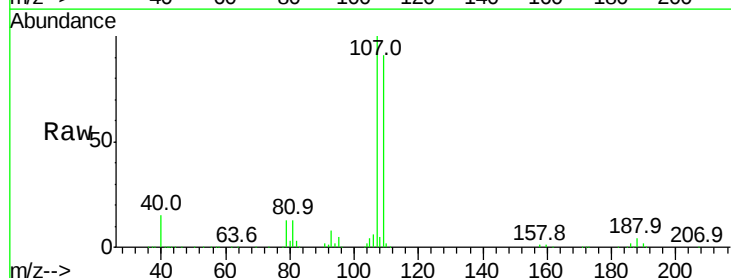
Tgt Ion:107 Resp: 136541

Ion Ratio Lower Upper

107 100

109 90.9 68.0 126.4

188 3.7 3.5 5.3

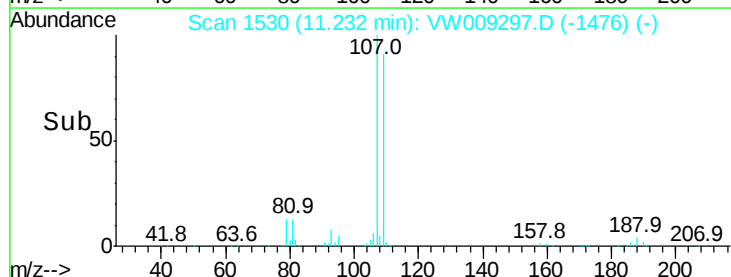


Abundance Ion 107.00 (106.70 to 107.70): V

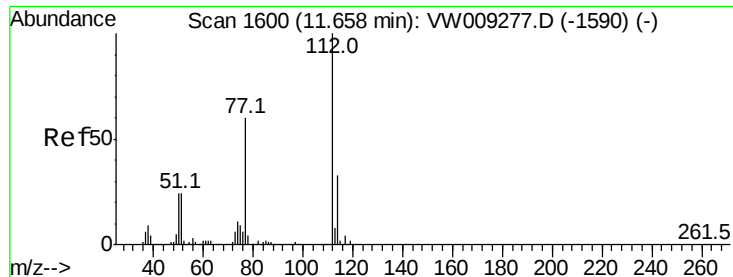
Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V

11.23



Time-->



#52

Chlorobenzene

Concen: 28.153 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VW009297.D

Acq: 20 Mar 2019 20:00

Instrument :

MSVOA_W

ClientSampleId :

VSTD02515

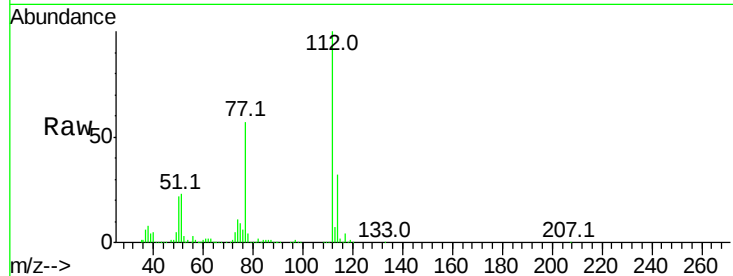
Tgt Ion: 112 Resp: 455124

Ion Ratio Lower Upper

112 100

77 57.4 45.7 68.5

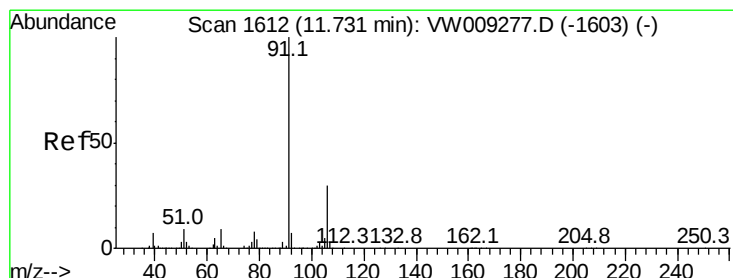
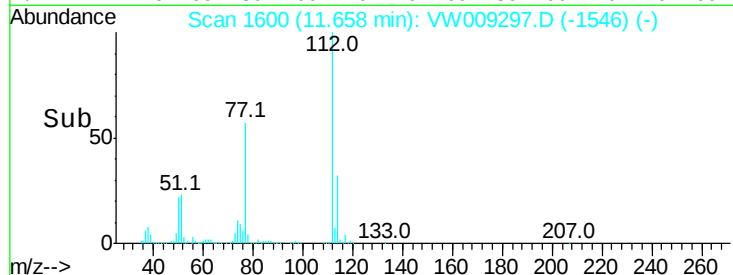
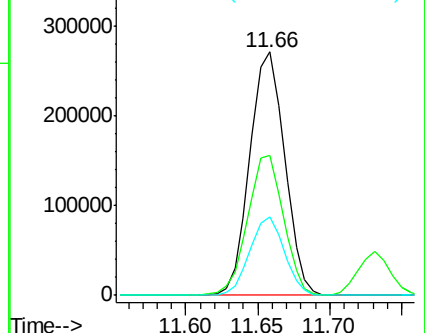
114 32.2 22.8 42.4



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VW

Ion 114.00 (113.70 to 114.70): V



#53

Ethylbenzene

Concen: 28.821 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW009297.D

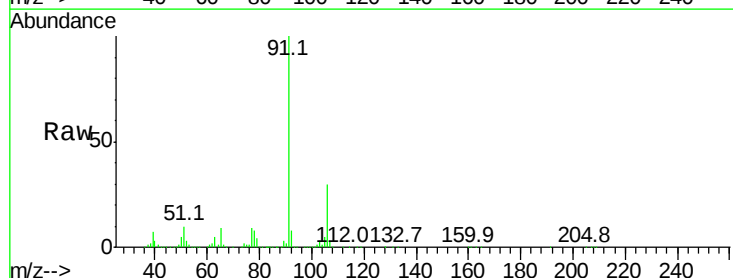
Acq: 20 Mar 2019 20:00

Tgt Ion: 91 Resp: 816698

Ion Ratio Lower Upper

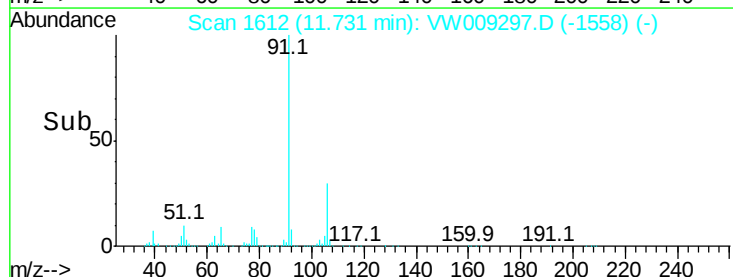
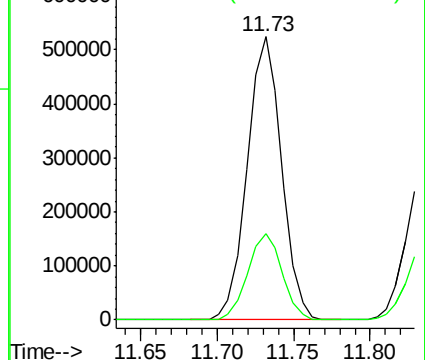
91 100

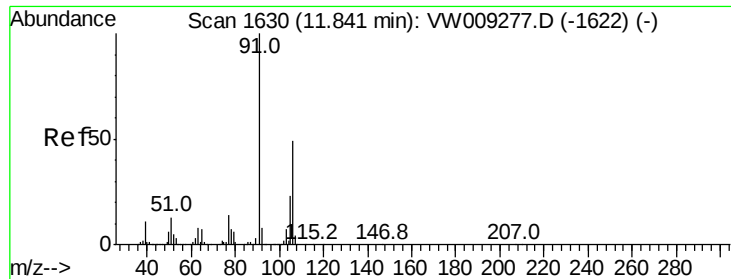
106 30.3 21.0 39.0



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V





#54

m,p-Xylene

Concen: 28.622 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW009297.D

Acq: 20 Mar 2019 20:00

Instrument :

MSVOA_W

ClientSampleId :

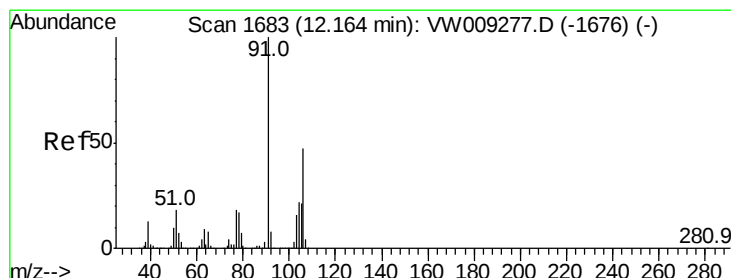
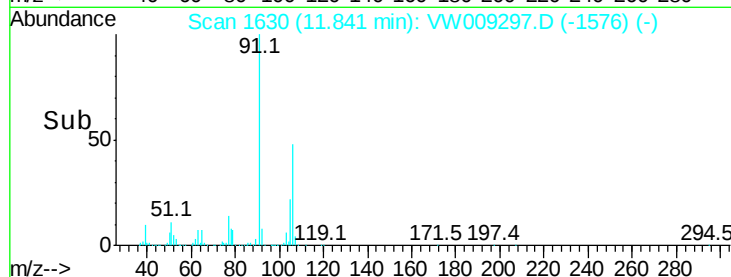
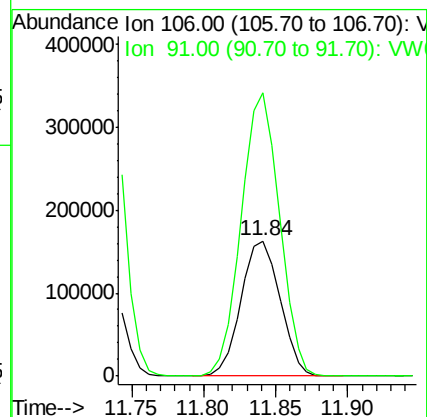
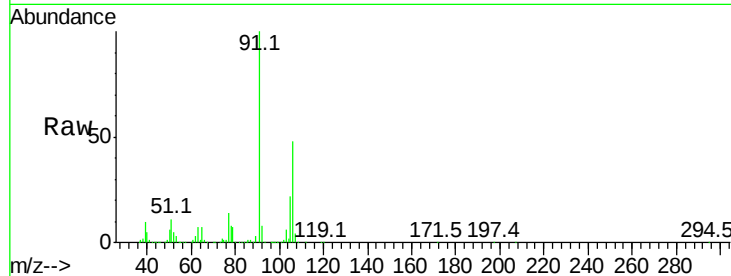
VSTD02515

Tgt Ion:106 Resp: 308142

Ion Ratio Lower Upper

106 100

91 208.9 138.4 257.0



#55

o-xylene

Concen: 28.392 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW009297.D

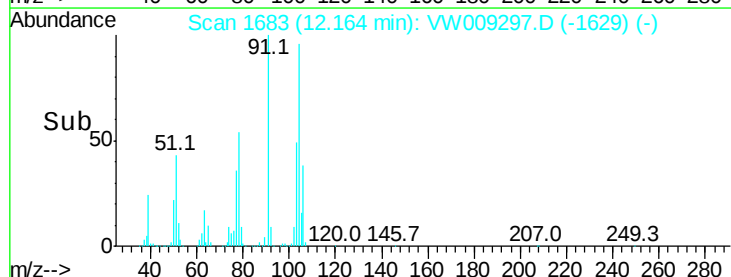
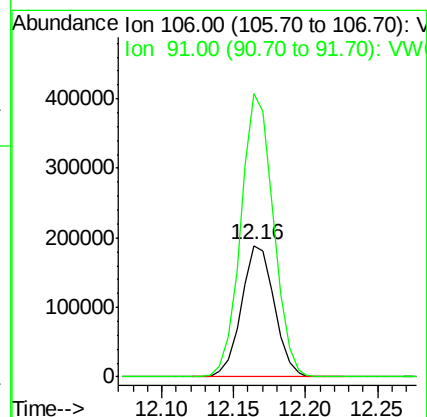
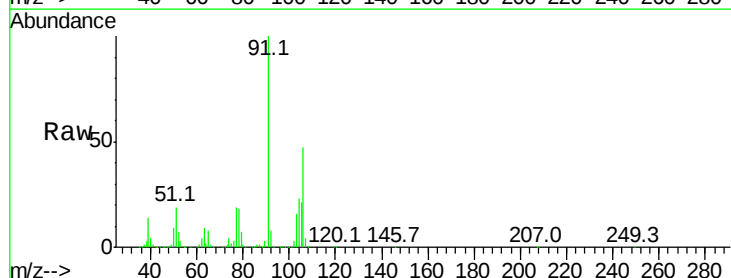
Acq: 20 Mar 2019 20:00

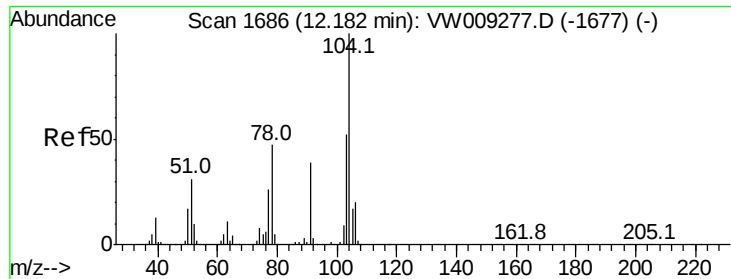
Tgt Ion:106 Resp: 298197

Ion Ratio Lower Upper

106 100

91 215.0 153.2 284.4





#56

Styrene

Concen: 29.118 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VW009297.D

Acq: 20 Mar 2019 20:00

Instrument :

MSVOA_W

ClientSampleId :

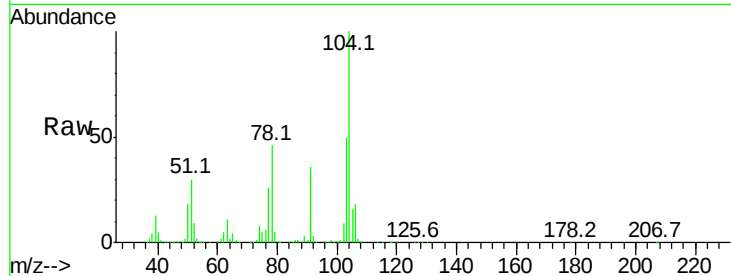
VSTD02515

Tgt Ion:104 Resp: 521789

Ion Ratio Lower Upper

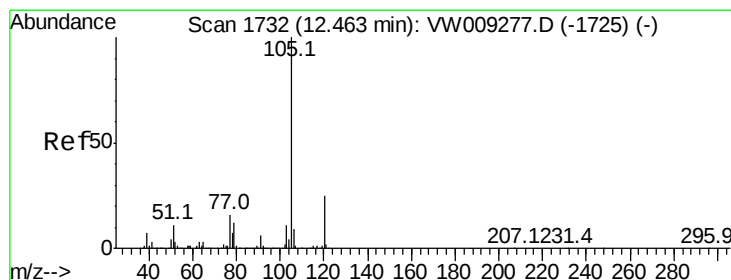
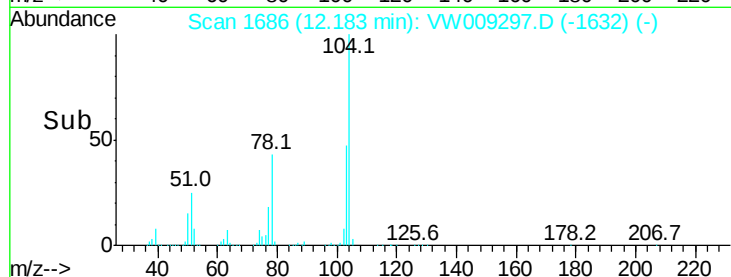
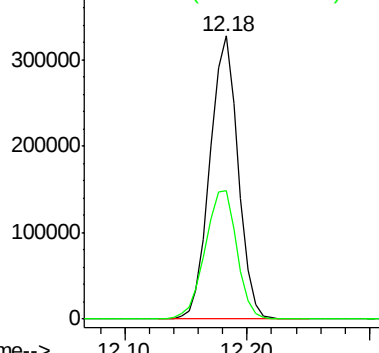
104 100

78 45.6 30.9 57.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW



#57

Isopropylbenzene

Concen: 28.989 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW009297.D

Acq: 20 Mar 2019 20:00

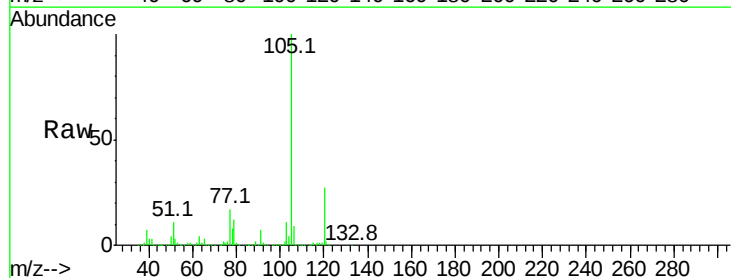
Tgt Ion:105 Resp: 815595

Ion Ratio Lower Upper

105 100

120 26.4 21.3 31.9

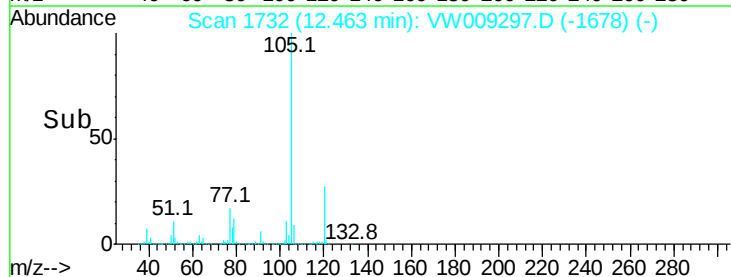
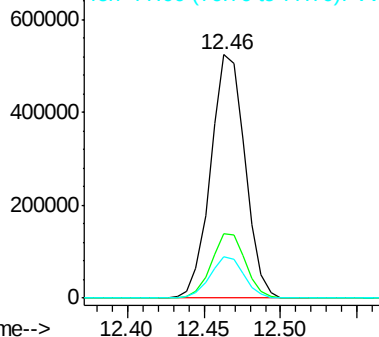
77 16.7 13.1 19.7

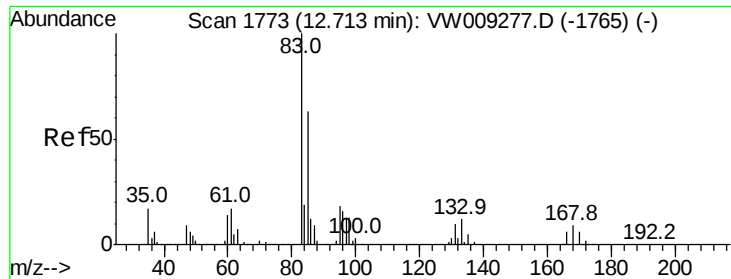


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VW





#58

1,1,2,2-Tetrachloroethane

Concen: 29.375 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW009297.D

Acq: 20 Mar 2019 20:00

Instrument :

MSVOA_W

ClientSampleId :

VSTD02515

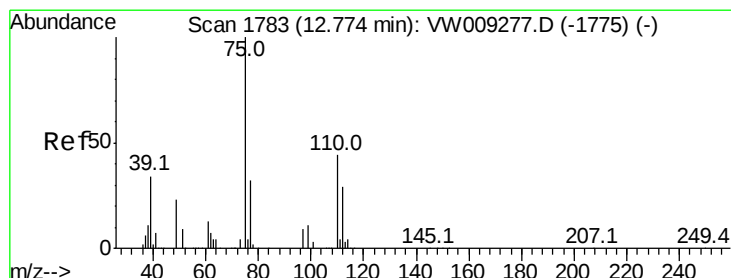
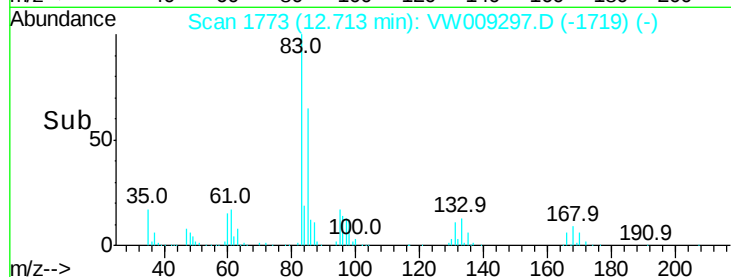
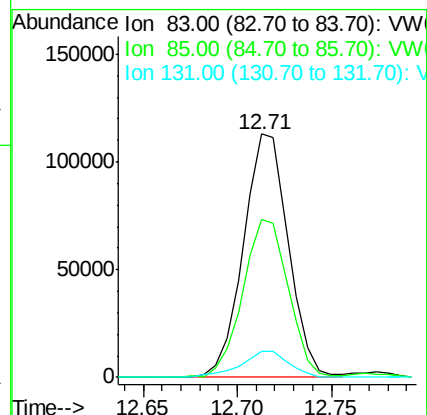
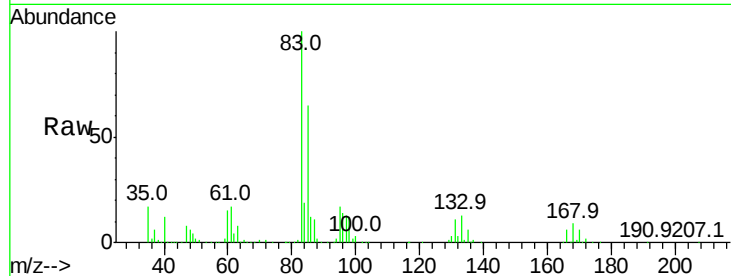
Tgt Ion: 83 Resp: 187020

Ion Ratio Lower Upper

83 100

85 64.8 45.6 84.8

131 10.7 9.2 13.8



#59

1,2,3-Trichloropropane

Concen: 29.860 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW009297.D

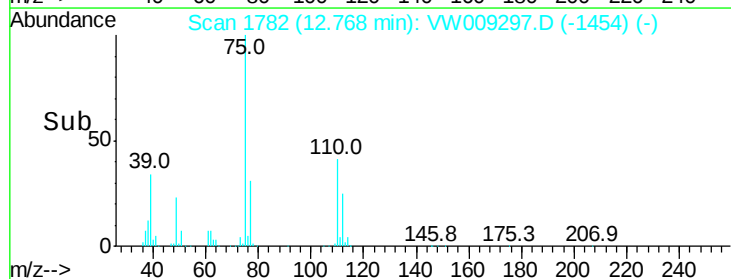
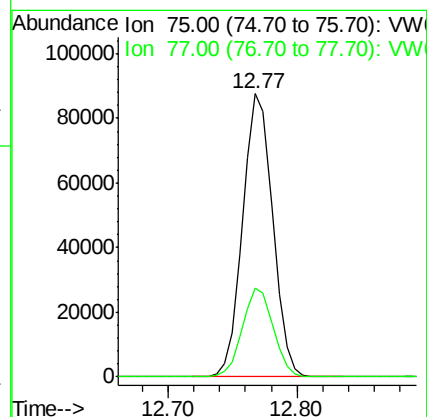
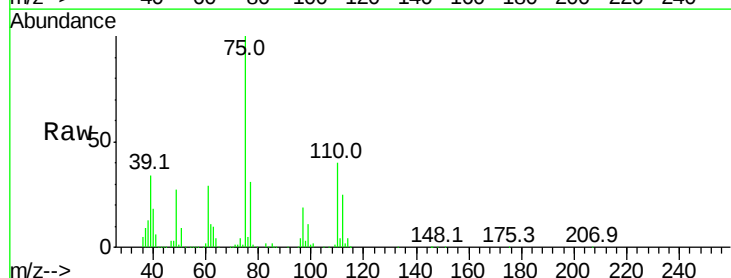
Acq: 20 Mar 2019 20:00

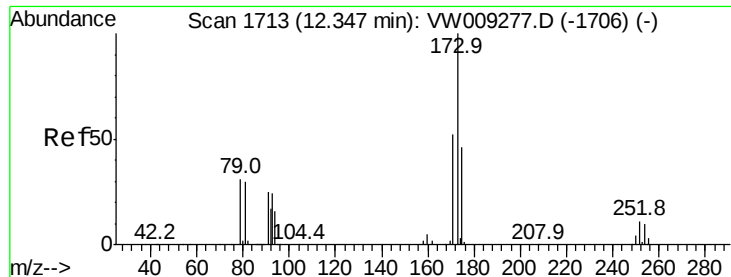
Tgt Ion: 75 Resp: 141087

Ion Ratio Lower Upper

75 100

77 32.3 26.2 39.2





#62

Bromoform

Concen: 28.466 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW009297.D

Acq: 20 Mar 2019 20:00

Instrument :

MSVOA_W

ClientSampleId :

VSTD02515

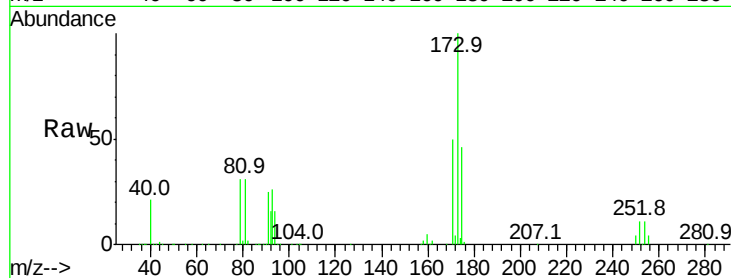
Tgt Ion:173 Resp: 108009

Ion Ratio Lower Upper

173 100

175 48.2 39.7 59.5

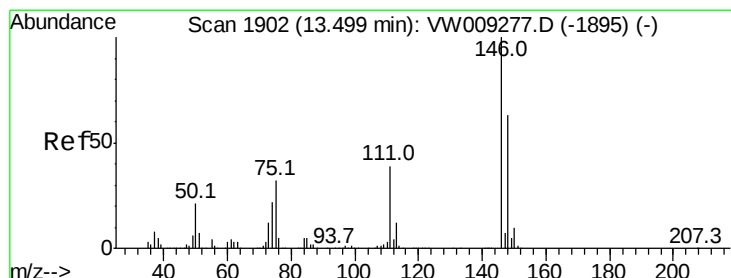
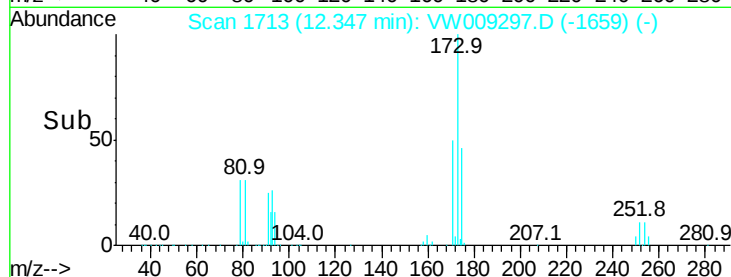
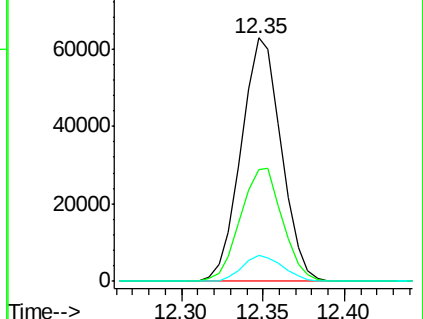
254 10.8 8.5 12.7



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: 26.788 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW009297.D

Acq: 20 Mar 2019 20:00

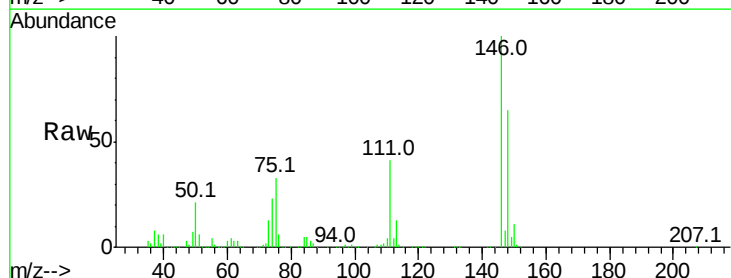
Tgt Ion:146 Resp: 358523

Ion Ratio Lower Upper

146 100

111 40.9 26.9 49.9

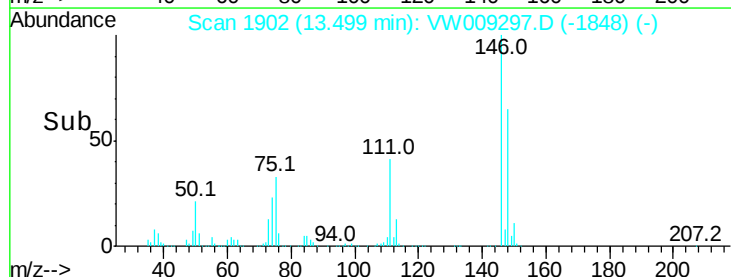
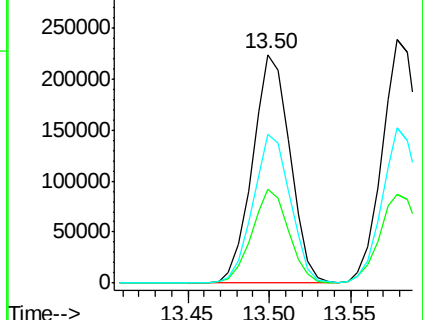
148 65.3 45.1 83.7

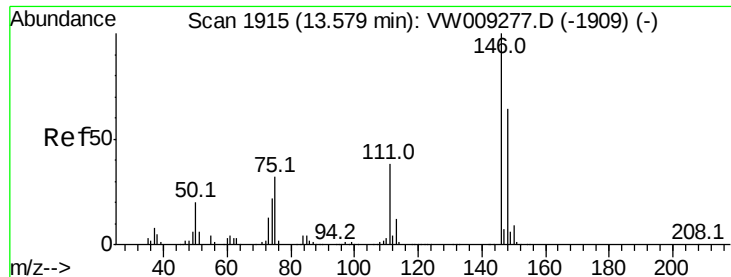


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

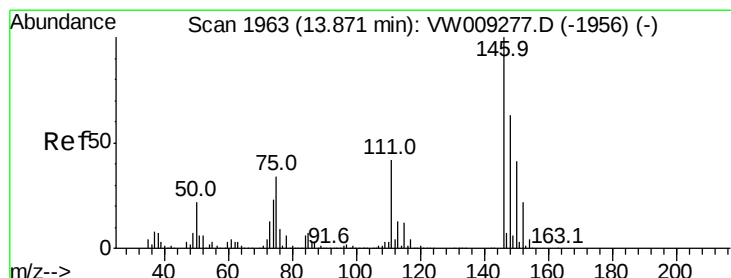
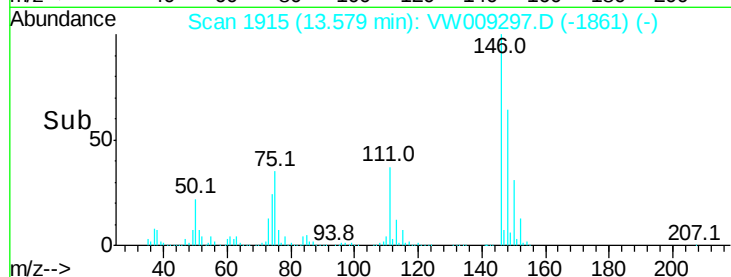
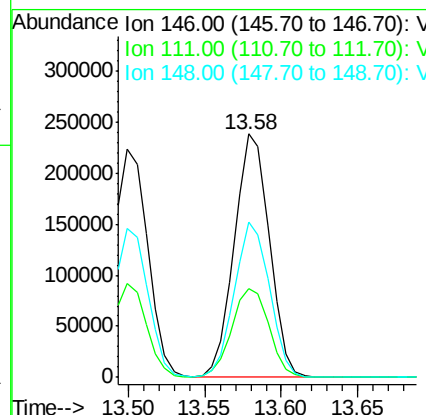
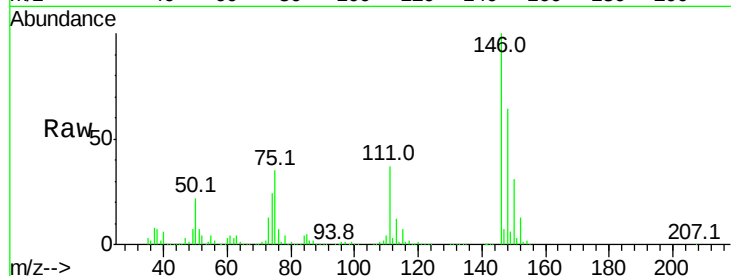




#64
1,4-Dichlorobenzene
Concen: 27.499 ug/L
RT: 13.58 min Scan# 1915
Delta R.T. 0.00 min
Lab File: VW009297.D
Acq: 20 Mar 2019 20:00

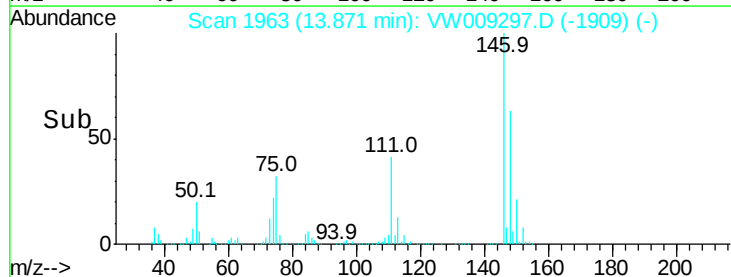
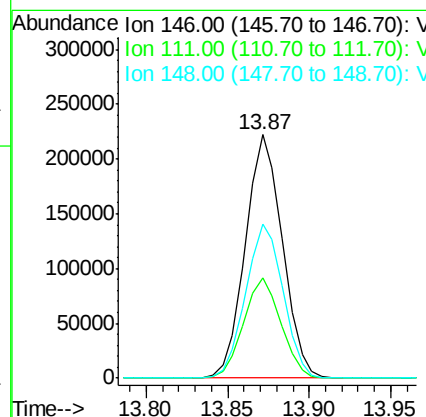
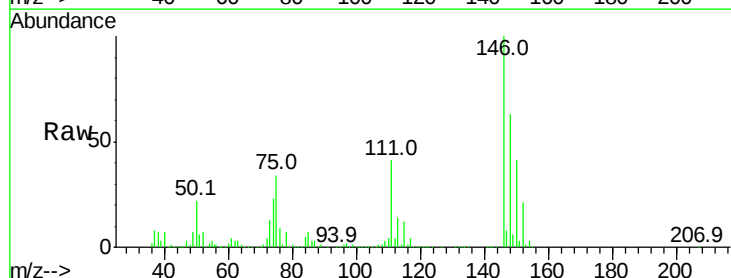
Instrument :
MSVOA_W
ClientSampleId :
VSTD02515

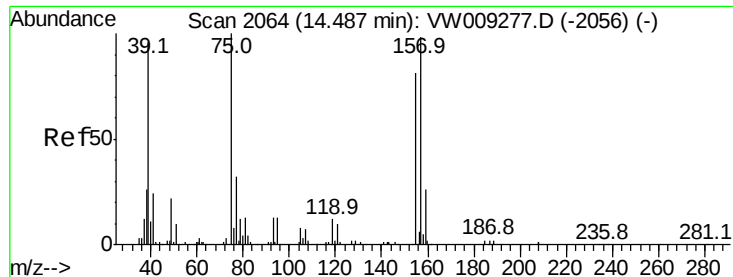
Tgt Ion:146 Resp: 380503
Ion Ratio Lower Upper
146 100
111 36.7 27.8 51.6
148 63.8 46.3 86.1



#65
1,2-Dichlorobenzene
Concen: 27.598 ug/L
RT: 13.87 min Scan# 1963
Delta R.T. 0.00 min
Lab File: VW009297.D
Acq: 20 Mar 2019 20:00

Tgt Ion:146 Resp: 352245
Ion Ratio Lower Upper
146 100
111 41.1 33.5 50.3
148 63.2 50.2 75.2

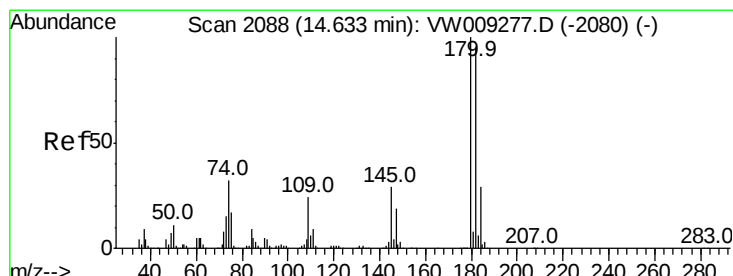
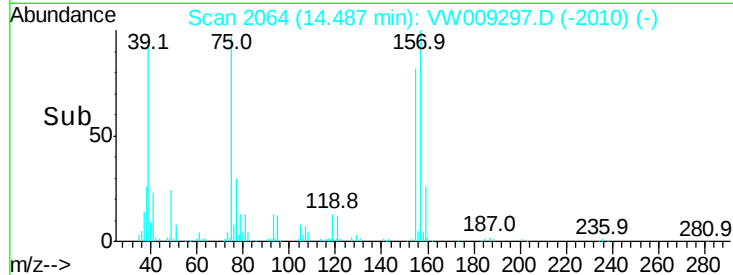
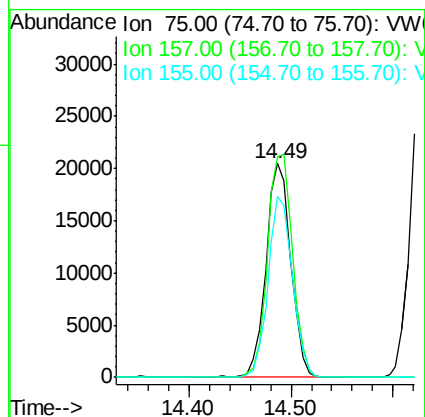
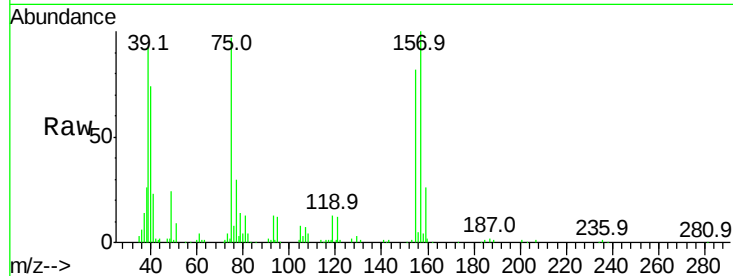




#66
 1,2-Dibromo-3-chloropropane
 Concen: 27.534 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VW009297.D
 Acq: 20 Mar 2019 20:00

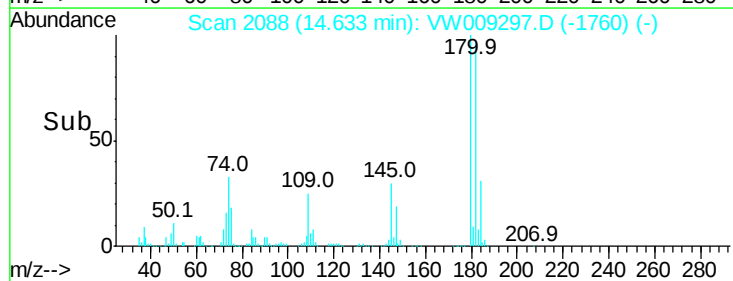
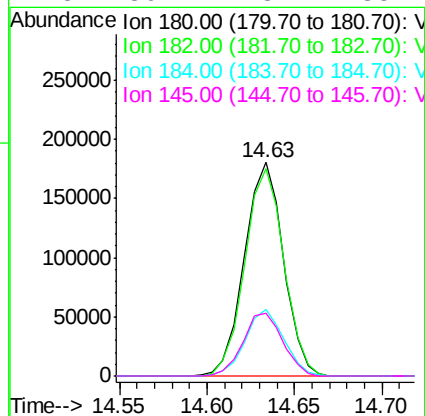
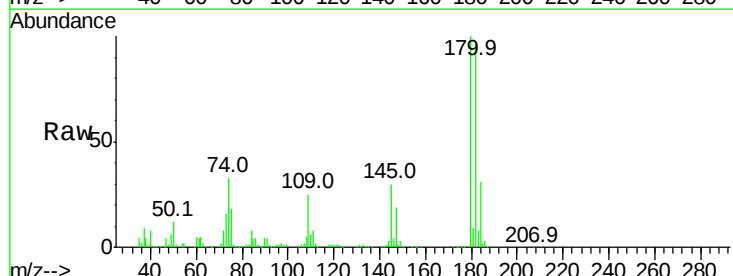
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02515

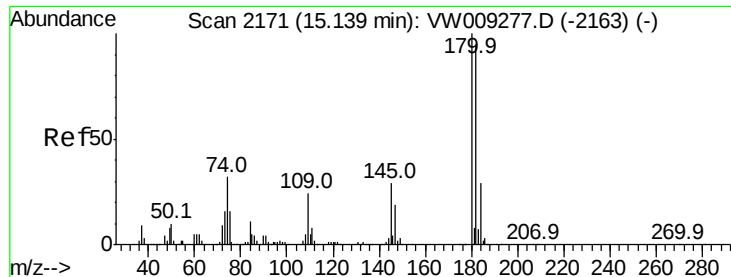
Tgt Ion: 75 Resp: 34442
 Ion Ratio Lower Upper
 75 100
 157 103.4 89.0 133.4
 155 84.4 64.2 96.2



#67
 1,3,5-Trichlorobenzene
 Concen: 26.840 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. 0.00 min
 Lab File: VW009297.D
 Acq: 20 Mar 2019 20:00

Tgt Ion: 180 Resp: 280187
 Ion Ratio Lower Upper
 180 100
 182 97.3 76.1 114.1
 184 30.9 23.8 35.6
 145 30.2 23.4 35.2

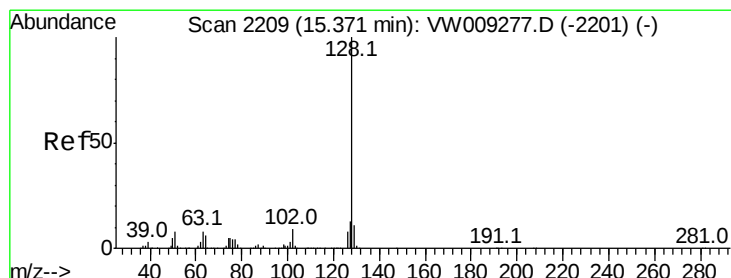
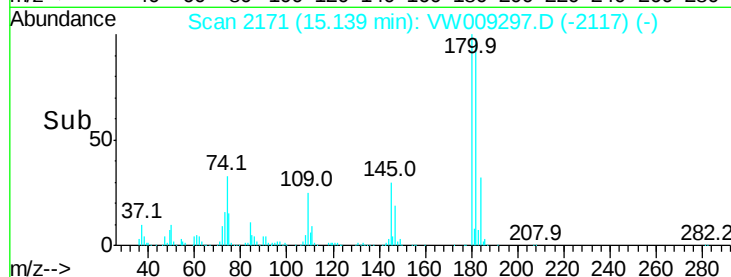
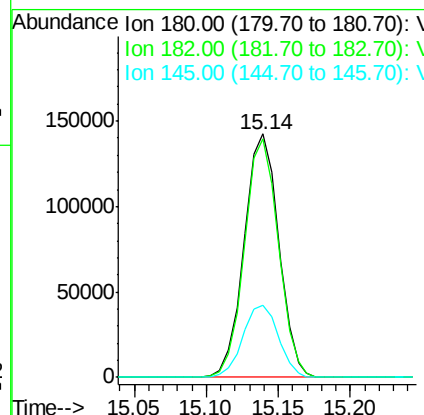
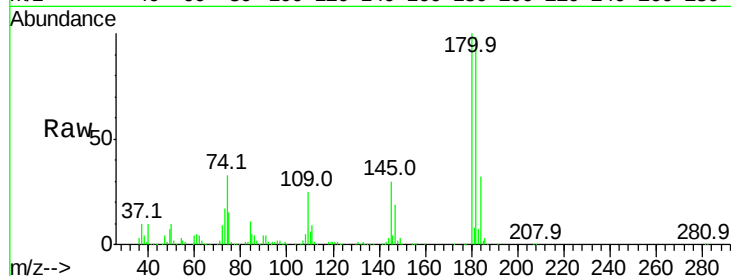




#68
 1,2,4-trichlorobenzene
 Concen: 27.037 ug/L
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.00 min
 Lab File: VW009297.D
 Acq: 20 Mar 2019 20:00

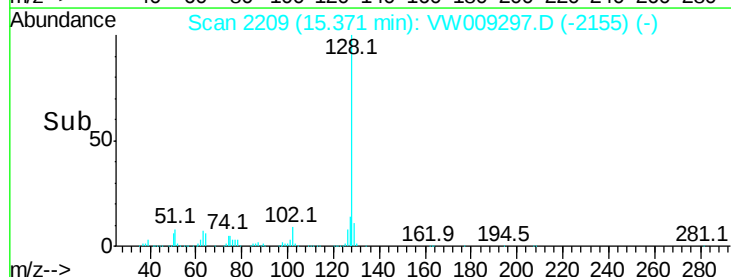
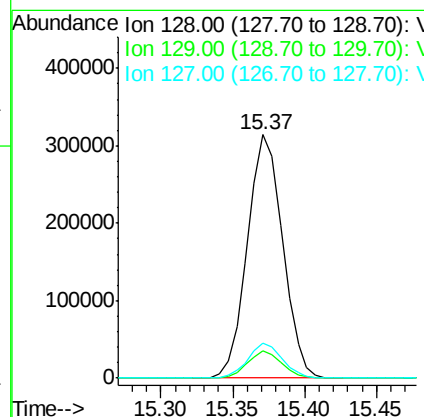
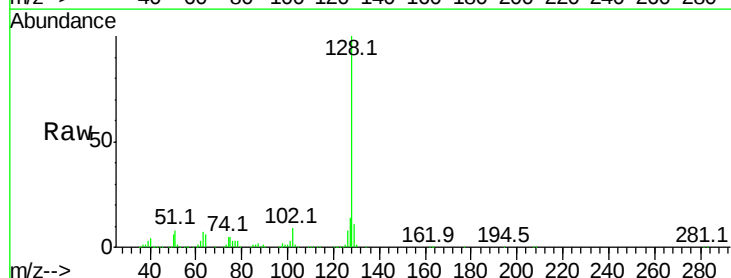
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02515

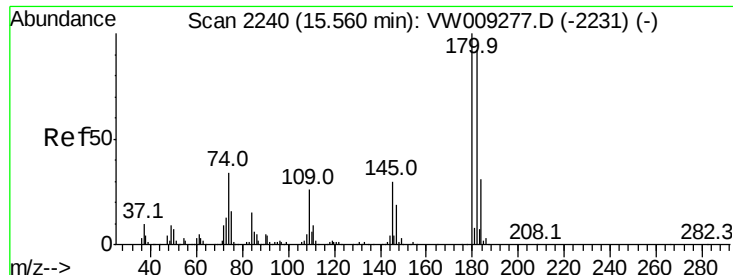
Tgt Ion:180 Resp: 237073
 Ion Ratio Lower Upper
 180 100
 182 96.1 75.5 113.3
 145 30.5 24.1 36.1



#69
 Naphthalene
 Concen: 29.395 ug/L
 RT: 15.37 min Scan# 2209
 Delta R.T. 0.00 min
 Lab File: VW009297.D
 Acq: 20 Mar 2019 20:00

Tgt Ion:128 Resp: 534375
 Ion Ratio Lower Upper
 128 100
 129 10.8 8.7 13.1
 127 13.9 11.1 16.7

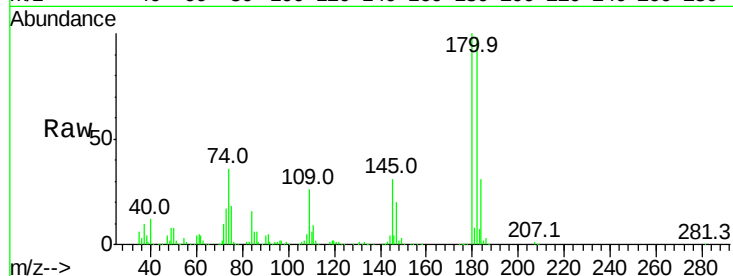




#70
 1,2,3-Trichlorobenzene
 Concen: 27.798 ug/L
 RT: 15.56 min Scan# 2240
 Delta R.T. 0.00 min
 Lab File: VW009297.D
 Acq: 20 Mar 2019 20:00

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02515

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.8	77.2	115.8
145	32.2	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

