

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW050719\
 Data File : VW010297.D
 Acq On : 07 May 2019 13:39
 Operator : SY/VA
 Sample : VSTDCCC025
 Misc : 5.00G/10ML/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02510

Quant Time: May 08 04:38:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM050719S.M
 Quant Title : VOC Analysis
 QLast Update : Wed May 08 02:05:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	586150	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	537208	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	253569	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	169362	24.82	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	99.28%
7) Chloroethane-d5	3.09	69	310	0.05	ug/L	0.21
Spiked Amount	25.000	Range	30 - 150	Recovery	=	0.20%#
10) 1,1-Dichloroethene-d2	4.01	63	405063	23.82	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	95.28%
20) 2-Butanone-d5	7.08	46	151966	48.06	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	96.12%
24) Chloroform-d	7.65	84	384332	24.62	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	98.48%
26) 1,2-Dichloroethane-d4	8.31	65	221131	23.93	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	95.72%
29) Benzene-d6	8.27	84	750493	25.72	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	102.88%
33) 1,2-Dichloropropane-d6	9.27	67	228732	25.64	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	102.56%
37) Toluene-d8	10.32	98	677548	26.04	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	104.16%
38) trans-1,3-Dichloropropene-	10.58	79	101250	24.83	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	99.32%
39) 2-Hexanone-d5	10.93	63	120297	52.77	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	105.54%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	208815	24.62	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	98.48%
61) 1,2-Dichlorobenzene-d4	13.86	152	223497	25.83	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	103.32%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	181440	23.157 ug/L	92
3) Chloromethane	2.22	50	175522	23.245 ug/L	99
5) Vinyl chloride	2.37	62	200995	22.733 ug/L	96
6) Bromomethane	2.78	94	114260	21.379 ug/L	99
8) Chloroethane	2.92	64	113369	21.299 ug/L	100
9) Trichlorofluoromethane	3.25	101	108495	19.011 ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	4.05	101	186082	23.689 ug/L	98
12) 1,1-Dichloroethene	4.03	96	184025	23.126 ug/L	95
13) Acetone	4.12	43	105501	38.993 ug/L	98
14) Carbon disulfide	4.38	76	559806	22.988 ug/L	99
15) Methyl Acetate	4.67	43	121139	20.987 ug/L	99
16) Methylene chloride	4.91	84	179998	22.684 ug/L	98
17) Methyl tert-butyl Ether	5.43	73	242718	23.272 ug/L	99
18) trans-1,2-Dichloroethene	5.41	96	189938	23.139 ug/L	98
19) 1,1-Dichloroethane	6.21	63	361168	22.954 ug/L	99
21) 2-Butanone	7.17	43	170882	44.151 ug/L	99
22) cis-1,2-Dichloroethene	7.17	96	198664	23.438 ug/L	99

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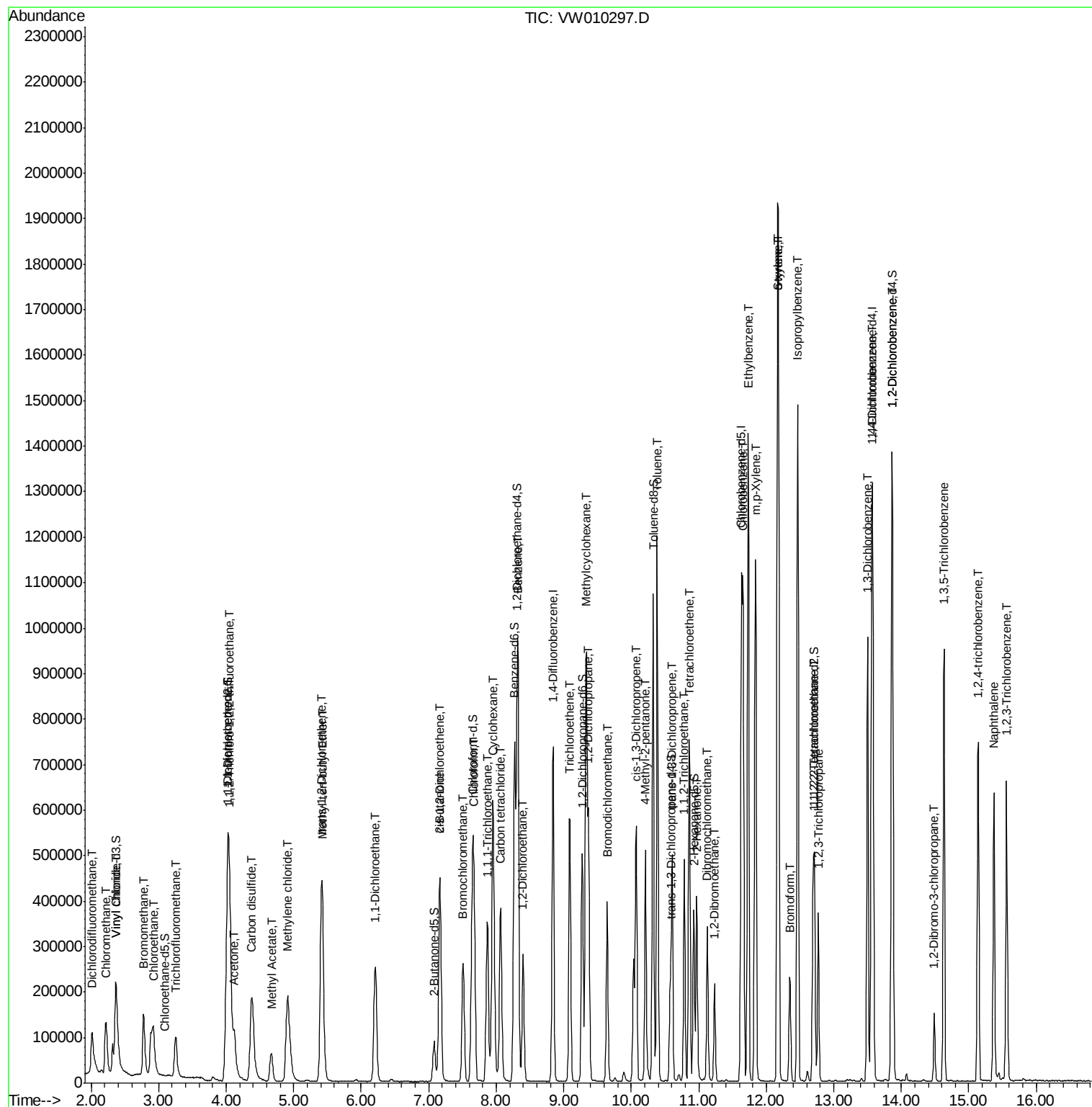
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	86431	22.728	ug/L	98
25) Chloroform	7.67	83	358755	23.089	ug/L	100
27) 1,2-Dichloroethane	8.40	62	255040	22.365	ug/L	97
30) Cyclohexane	7.95	56	349786	25.182	ug/L	100
31) 1,1,1-Trichloroethane	7.87	97	281394	23.001	ug/L	98
32) Carbon tetrachloride	8.07	117	280732	23.088	ug/L	100
34) Benzene	8.32	78	799371	24.243	ug/L	100
35) Trichloroethene	9.09	95	203719	23.383	ug/L	99
36) Methylcyclohexane	9.33	83	367609	24.980	ug/L	100
40) 1,2-Dichloropropane	9.37	63	200014	23.771	ug/L	99
41) Bromodichloromethane	9.64	83	253411	23.274	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	302103	23.994	ug/L	99
43) 4-Methyl-2-pentanone	10.21	43	342948	45.752	ug/L	99
44) Toluene	10.38	91	851435	24.655	ug/L	98
45) trans-1,3-Dichloropropene	10.60	75	260192	23.966	ug/L	98
46) 1,1,2-Trichloroethane	10.79	97	142499	22.674	ug/L	97
47) Tetrachloroethene	10.86	164	156904	23.819	ug/L	97
49) 2-Hexanone	10.97	43	260250	45.782	ug/L	99
50) Dibromochloromethane	11.13	129	167734	23.202	ug/L	100
51) 1,2-Dibromoethane	11.23	107	142545	23.027	ug/L	99
52) Chlorobenzene	11.66	112	506187	23.464	ug/L	99
53) Ethylbenzene	11.73	91	948826	24.616	ug/L	99
54) m,p-Xylene	11.84	106	351231	25.048	ug/L	99
55) o-xylene	12.17	106	325160	24.909	ug/L	97
56) Styrene	12.18	104	570596	25.331	ug/L	99
57) Isopropylbenzene	12.46	105	917045	25.563	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.71	83	195407	22.623	ug/L	98
59) 1,2,3-Trichloropropane	12.77	75	151049	22.781	ug/L	99
62) Bromoform	12.35	173	100448	23.033	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	370050	24.510	ug/L	98
64) 1,4-Dichlorobenzene	13.58	146	389015	23.792	ug/L	99
65) 1,2-Dichlorobenzene	13.87	146	351283	24.183	ug/L	98
66) 1,2-Dibromo-3-chloropropan	14.49	75	37351	21.578	ug/L	94
67) 1,3,5-Trichlorobenzene	14.63	180	275773	24.386	ug/L	99
68) 1,2,4-trichlorobenzene	15.14	180	221823	24.785	ug/L	99
69) Naphthalene	15.37	128	511695	25.352	ug/L	99
70) 1,2,3-Trichlorobenzene	15.57	180	211197	24.566	ug/L	99

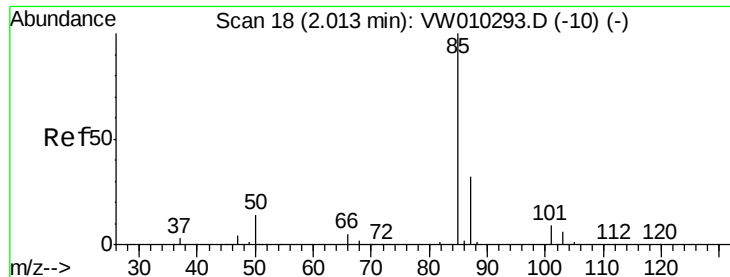
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 23.157 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW010297.D

Acq: 07 May 2019 13:39

Instrument :

MSVOA_W

ClientSampleId :

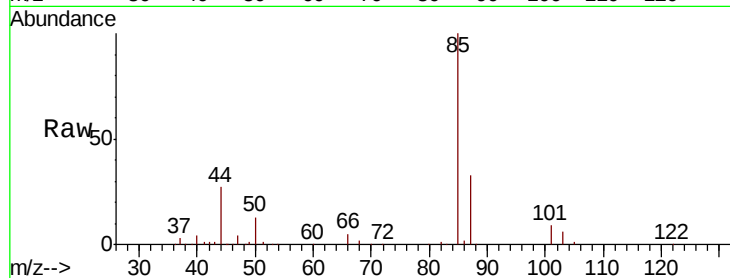
VSTD02510

Tgt Ion: 85 Resp: 181440

Ion Ratio Lower Upper

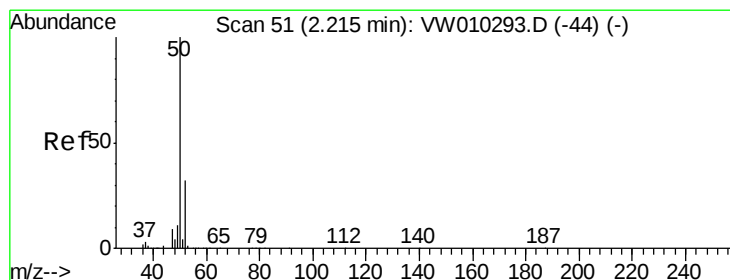
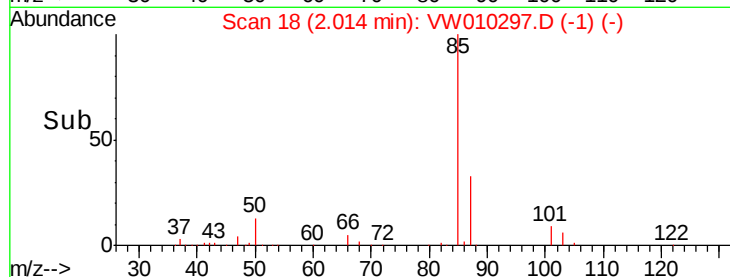
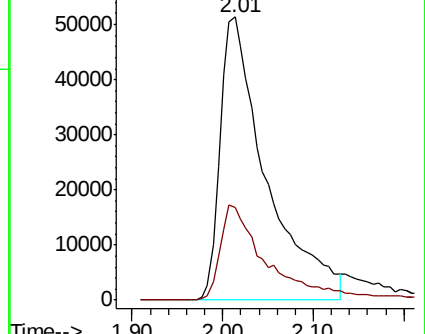
85 100

87 30.7 18.7 34.7



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 23.245 ug/L

RT: 2.22 min Scan# 52

Delta R.T. 0.01 min

Lab File: VW010297.D

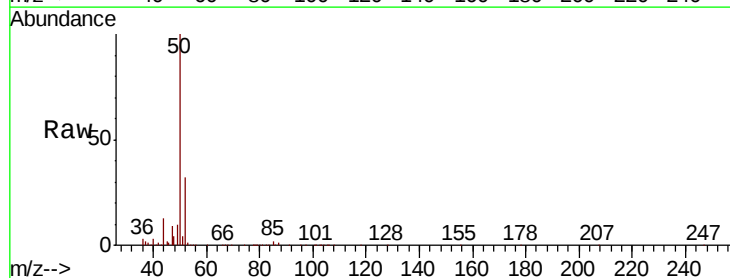
Acq: 07 May 2019 13:39

Tgt Ion: 50 Resp: 175522

Ion Ratio Lower Upper

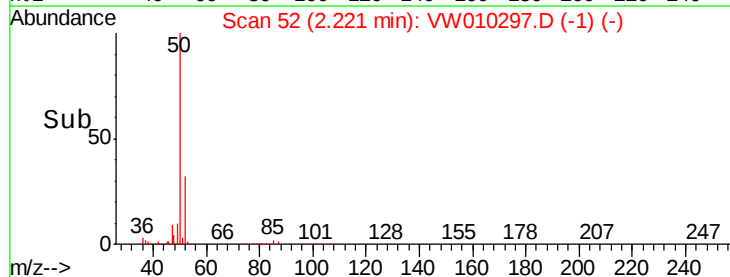
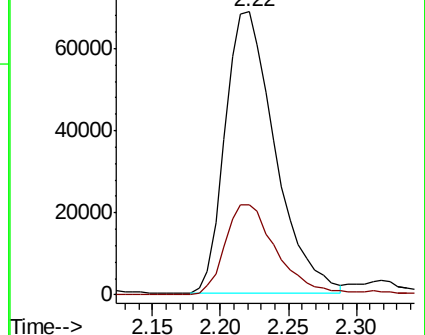
50 100

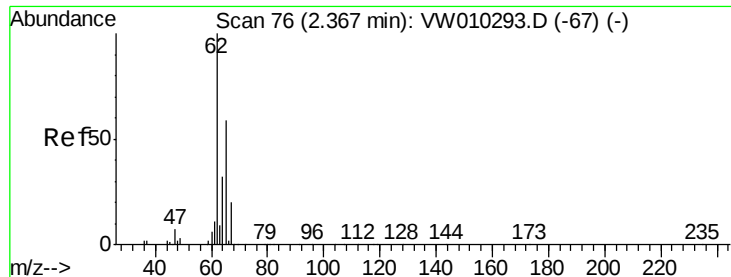
52 31.9 22.5 41.9



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 22.733 ug/L

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW010297.D

Acq: 07 May 2019 13:39

Instrument :

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ClientSampleId :

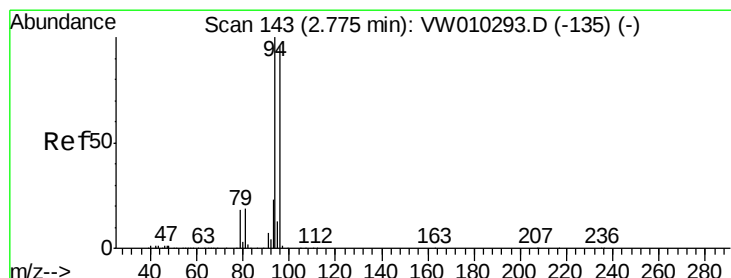
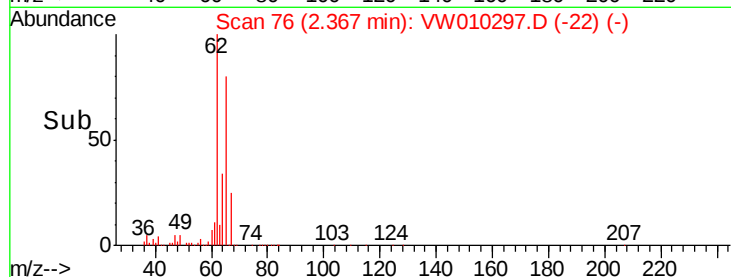
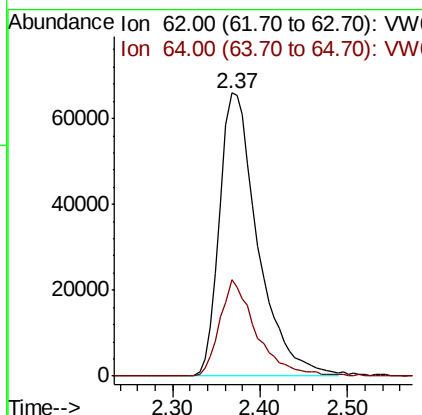
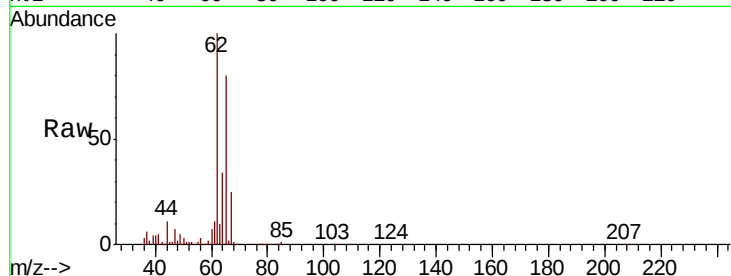
VSTD02510

Tgt Ion: 62 Resp: 200995

Ion Ratio Lower Upper

62 100

64 34.0 22.1 41.1



#6

Bromomethane

Concen: 21.379 ug/L

RT: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW010297.D

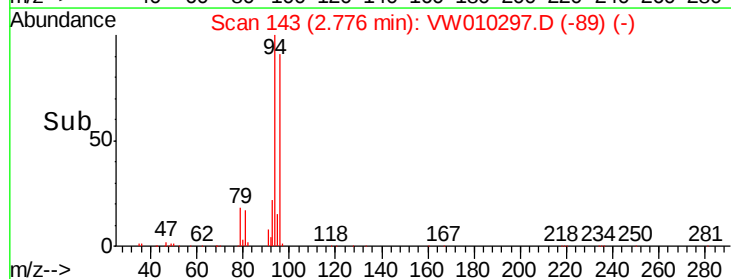
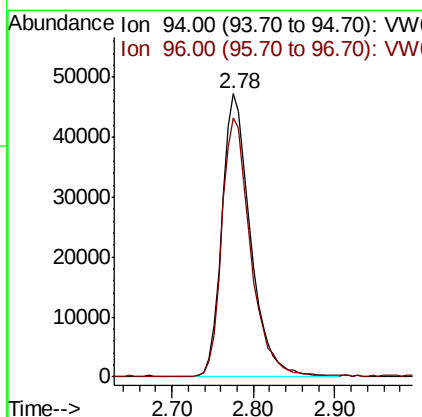
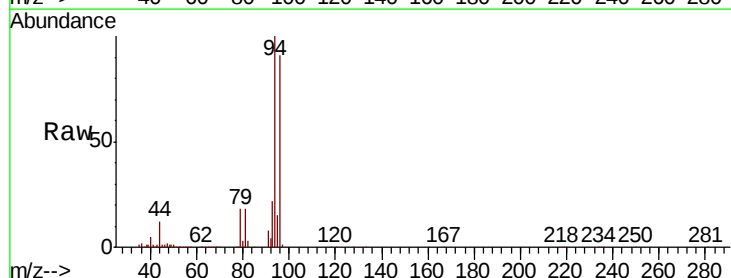
Acq: 07 May 2019 13:39

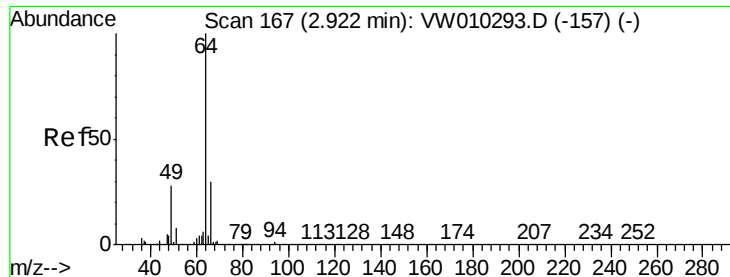
Tgt Ion: 94 Resp: 114260

Ion Ratio Lower Upper

94 100

96 92.6 9.3 177.1





#8

Chloroethane

Concen: 21.299 ug/L

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW010297.D

Acq: 07 May 2019 13:39

Instrument :

MSVOA_W

ClientSampleId :

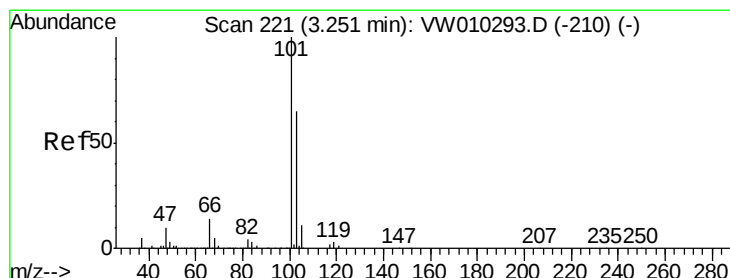
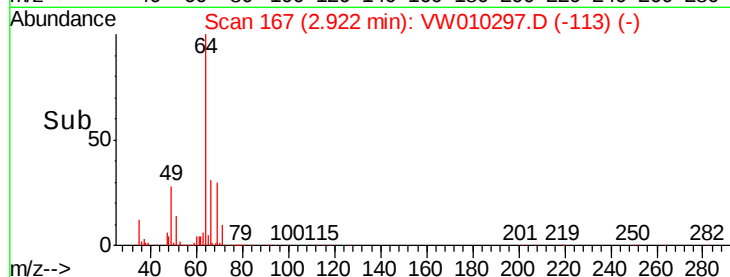
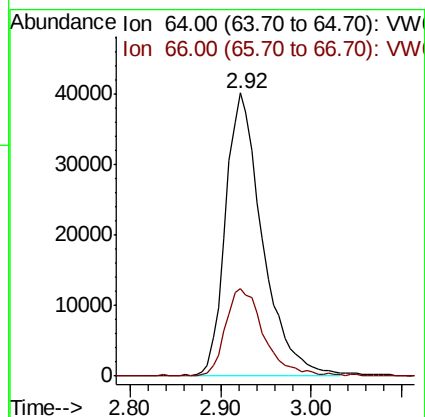
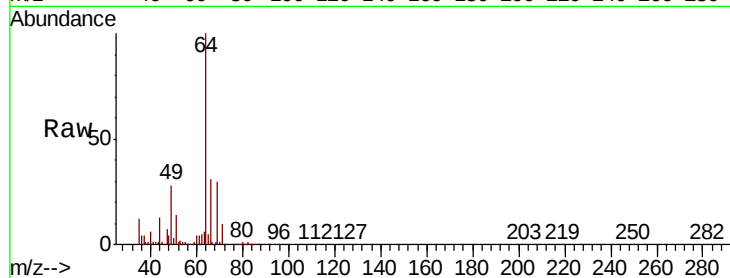
VSTD02510

Tgt Ion: 64 Resp: 113369

Ion Ratio Lower Upper

64 100

66 30.7 21.5 39.9



#9

Trichlorofluoromethane

Concen: 19.011 ug/L

RT: 3.25 min Scan# 221

Delta R.T. 0.00 min

Lab File: VW010297.D

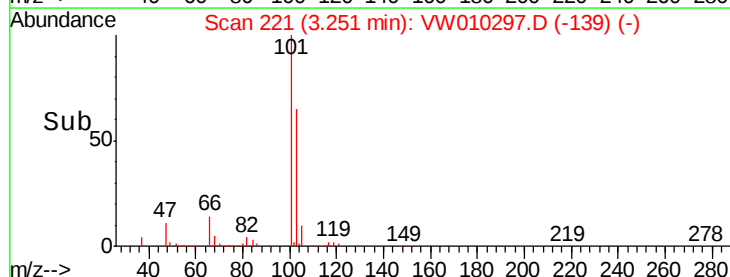
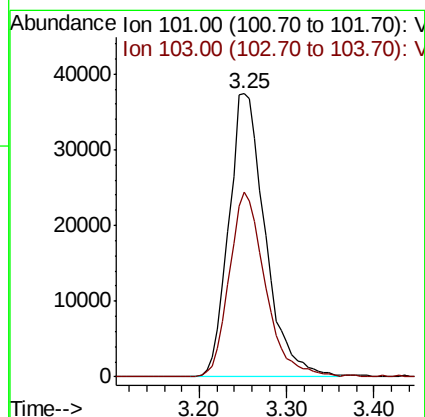
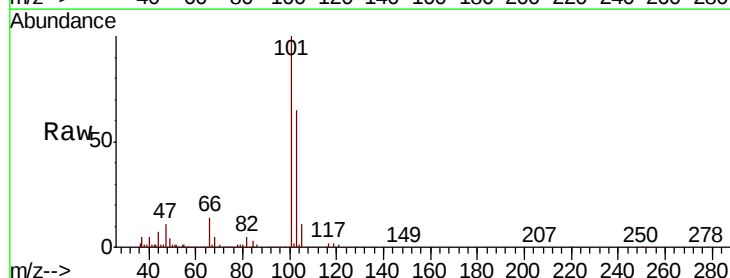
Acq: 07 May 2019 13:39

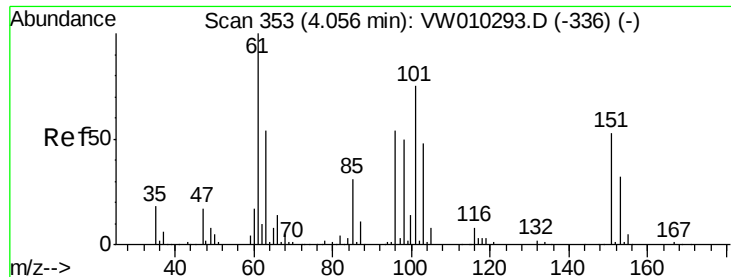
Tgt Ion: 101 Resp: 108495

Ion Ratio Lower Upper

101 100

103 64.3 45.1 83.7





#11

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

Concen: 23.689 ug/L

RT: 4.05 min Scan# 352

Delta R.T. -0.01 min

Lab File: VW010297.D

Acq: 07 May 2019 13:39

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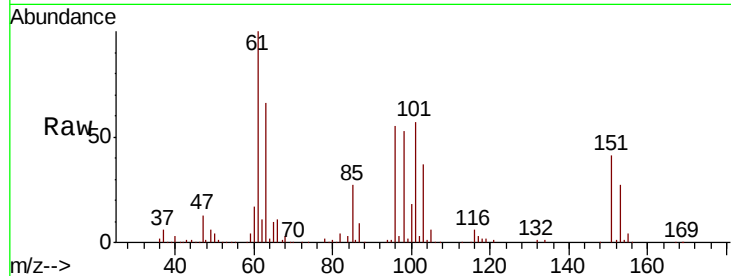
Tgt Ion: 101 Resp: 186082

Ion Ratio Lower Upper

101 100

85 43.9 33.7 50.5

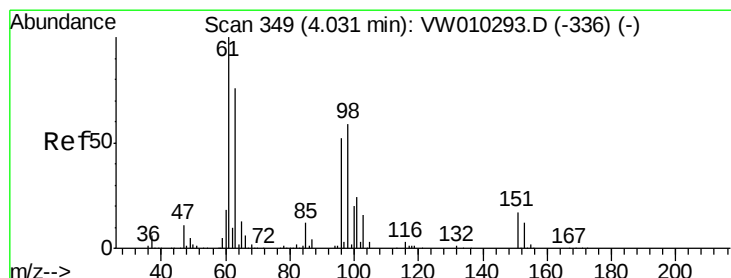
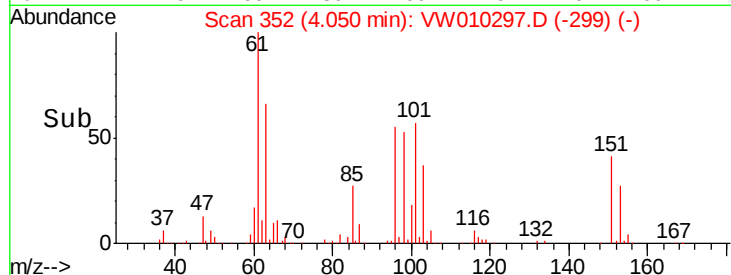
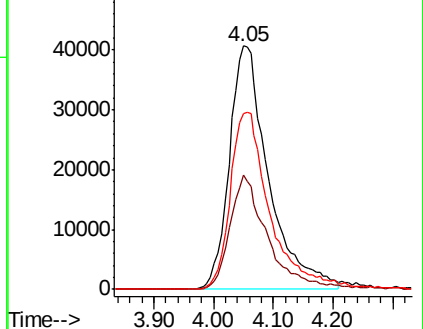
151 71.9 58.7 88.1



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: 23.126 ug/L

RT: 4.03 min Scan# 349

Delta R.T. 0.00 min

Lab File: VW010297.D

Acq: 07 May 2019 13:39

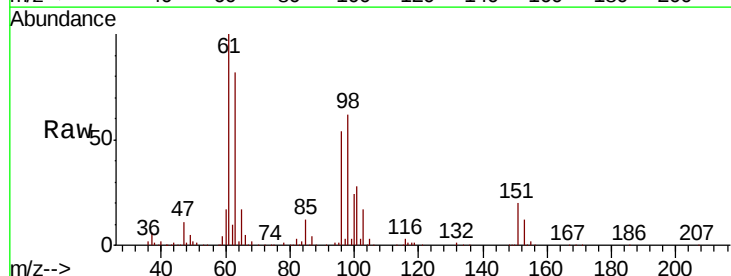
Tgt Ion: 96 Resp: 184025

Ion Ratio Lower Upper

96 100

61 184.2 135.1 250.9

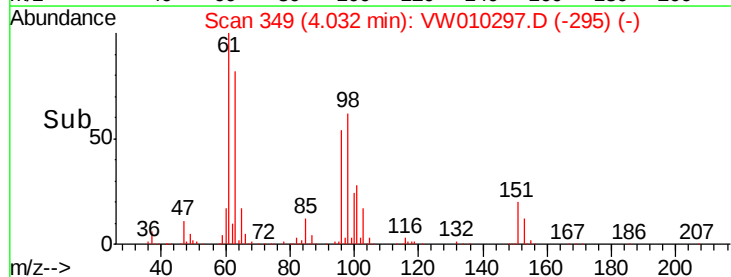
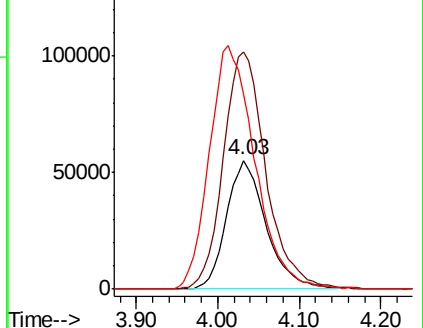
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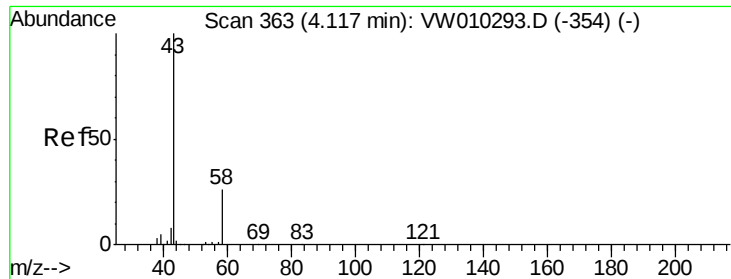


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW

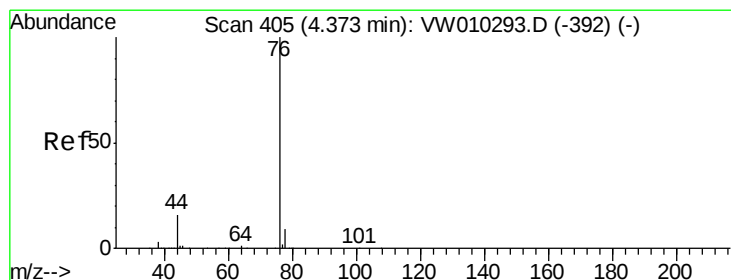
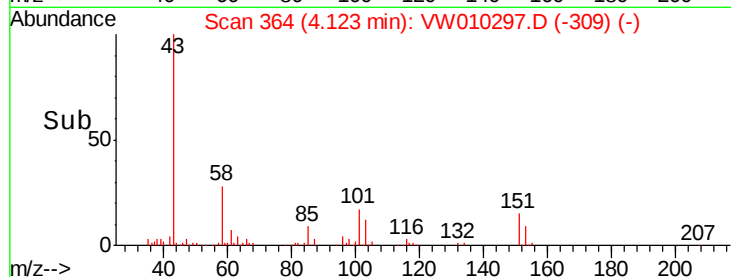
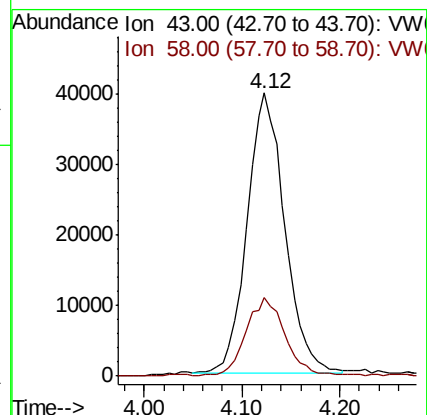
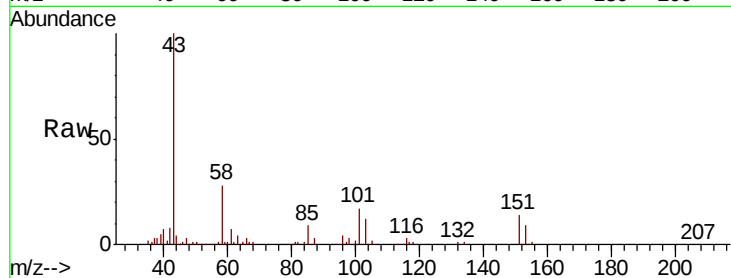




#13
Acetone
Concen: 38.993 ug/L
RT: 4.12 min Scan# 364
Delta R.T. 0.01 min
Lab File: VW010297.D
Acq: 07 May 2019 13:39

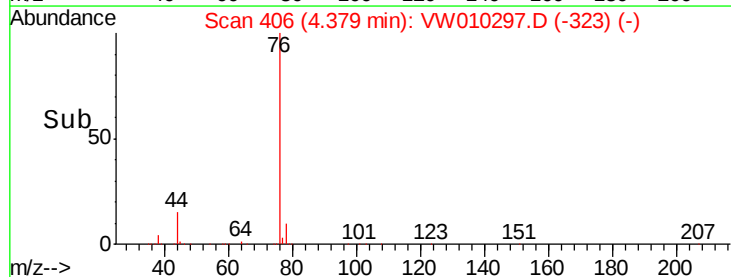
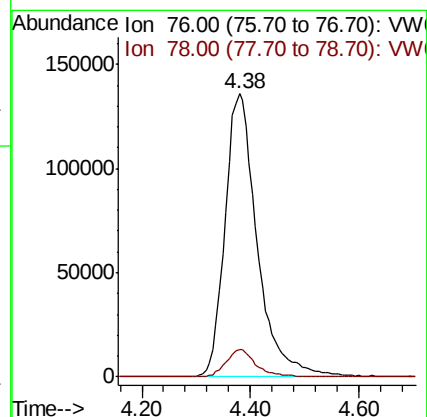
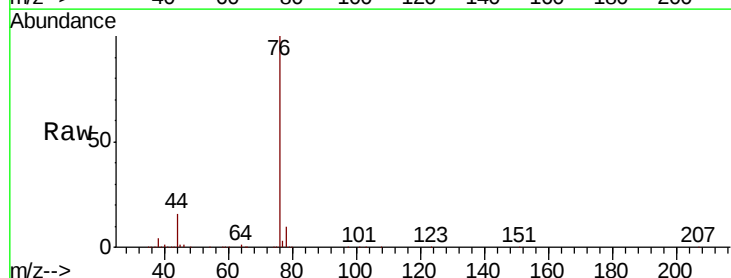
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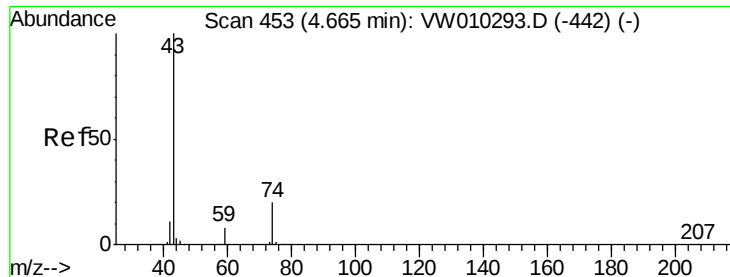
Tgt Ion: 43 Resp: 105501
Ion Ratio Lower Upper
43 100
58 28.9 0.0 55.2



#14
Carbon disulfide
Concen: 22.988 ug/L
RT: 4.38 min Scan# 406
Delta R.T. 0.01 min
Lab File: VW010297.D
Acq: 07 May 2019 13:39

Tgt Ion: 76 Resp: 559806
Ion Ratio Lower Upper
76 100
78 9.6 7.5 11.3

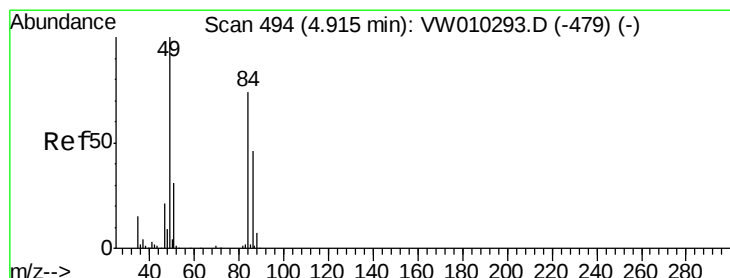
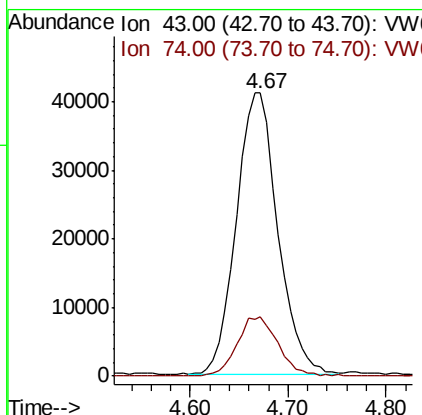
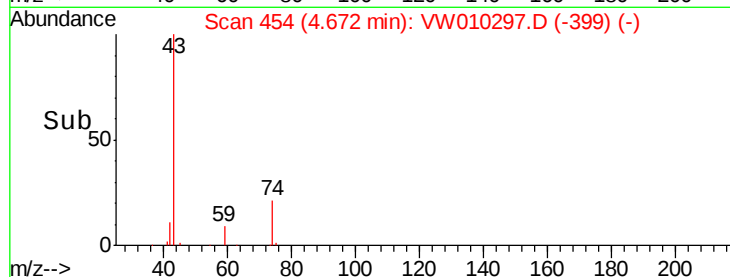
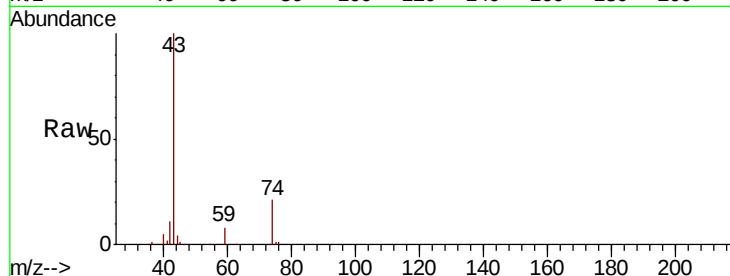




#15
Methyl Acetate
Concen: 20.987 ug/L
RT: 4.67 min Scan# 454
Delta R.T. 0.01 min
Lab File: VW010297.D
Acq: 07 May 2019 13:39

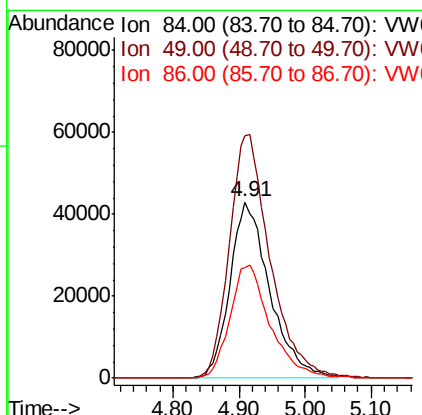
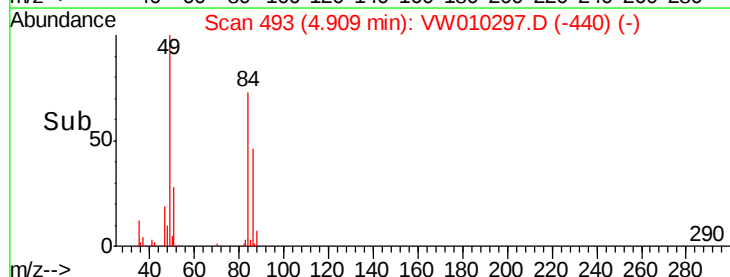
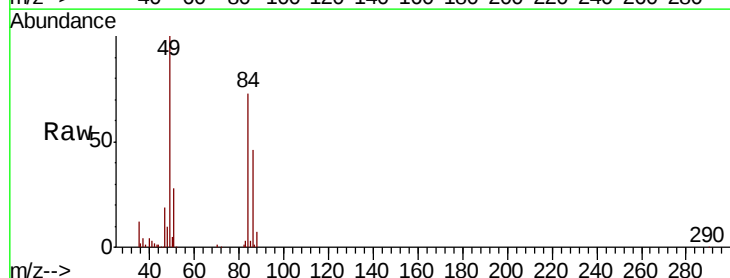
Instrument :
MSVOA_W
ClientSampleId :
VSTD02510

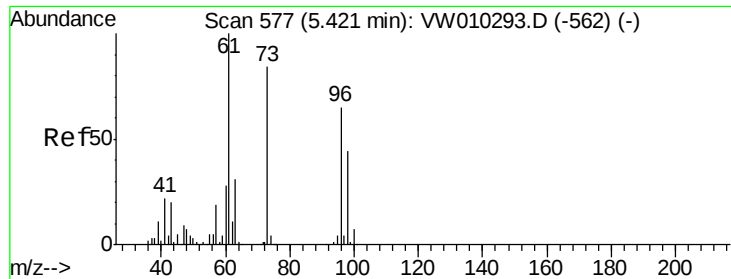
Tgt Ion: 43 Resp: 121139
Ion Ratio Lower Upper
43 100
74 20.6 16.1 24.1



#16
Methylene chloride
Concen: 22.684 ug/L
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW010297.D
Acq: 07 May 2019 13:39

Tgt Ion: 84 Resp: 179998
Ion Ratio Lower Upper
84 100
49 137.8 94.4 175.4
86 62.9 43.8 81.4

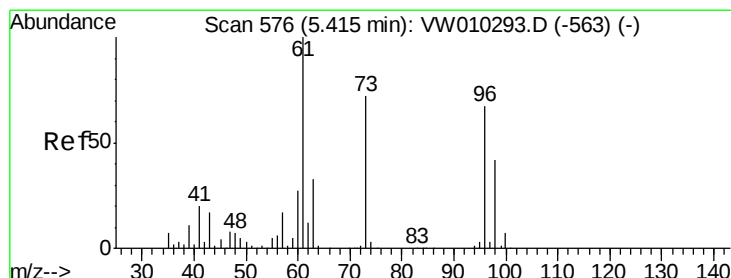
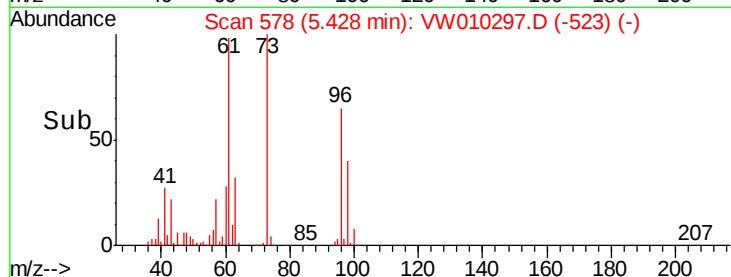
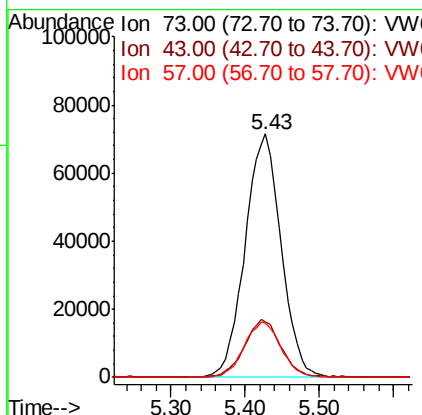
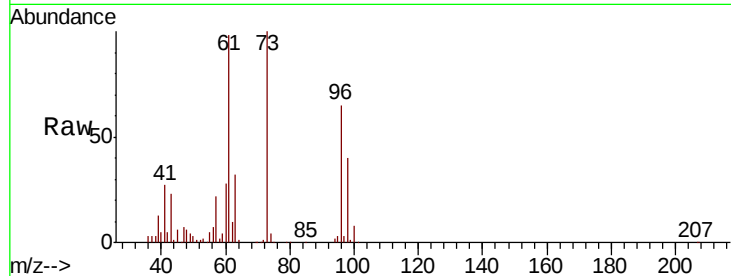




#17
Methyl tert-butyl Ether
Concen: 23.272 ug/L
RT: 5.43 min Scan# 578
Delta R.T. 0.01 min
Lab File: VW010297.D
Acq: 07 May 2019 13:39

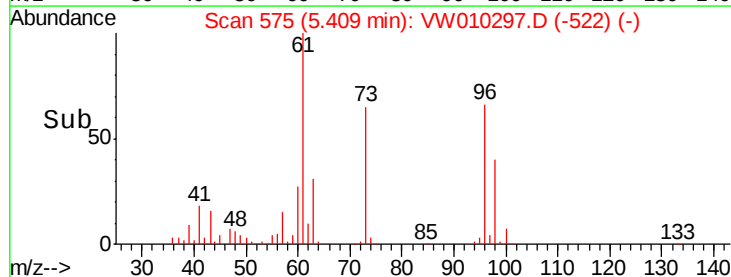
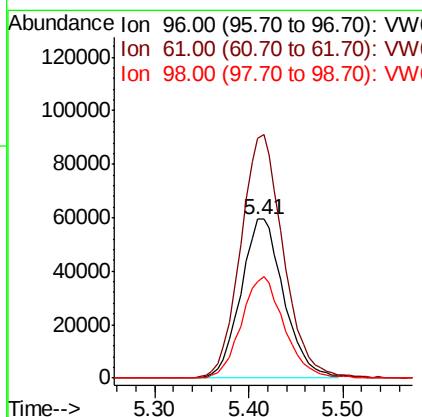
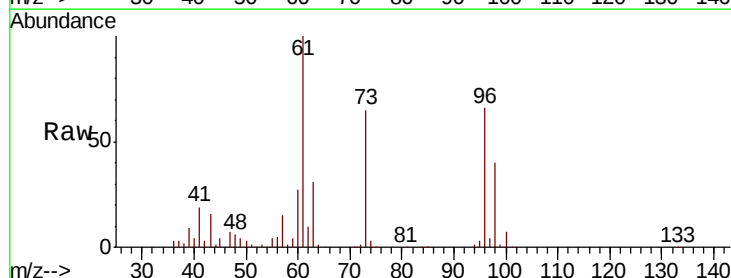
Instrument :
MSVOA_W
ClientSampleId :
VSTD02510

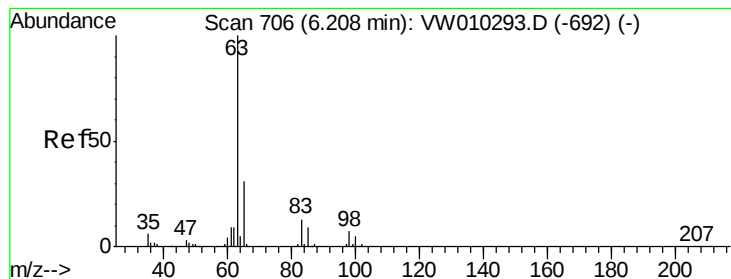
Tgt Ion: 73 Resp: 242718
Ion Ratio Lower Upper
73 100
43 24.1 19.5 29.3
57 23.2 18.9 28.3



#18
trans-1,2-Dichloroethene
Concen: 23.139 ug/L
RT: 5.41 min Scan# 575
Delta R.T. -0.01 min
Lab File: VW010297.D
Acq: 07 May 2019 13:39

Tgt Ion: 96 Resp: 189938
Ion Ratio Lower Upper
96 100
61 150.8 103.7 192.7
98 61.0 43.6 81.0





#19

1,1-Dichloroethane

Concen: 22.954 ug/L

RT: 6.21 min Scan# 706

Delta R.T. 0.00 min

Lab File: VW010297.D

Acq: 07 May 2019 13:39

Instrument :

MSVOA_W

ClientSampleId :

VSTD02510

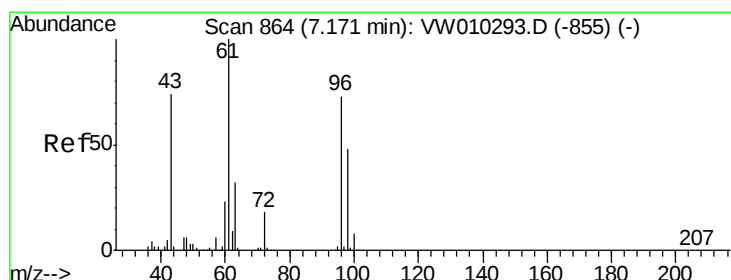
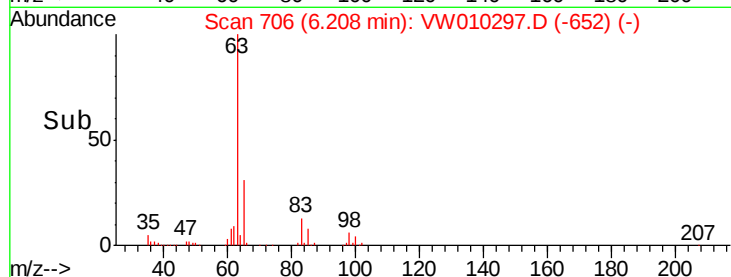
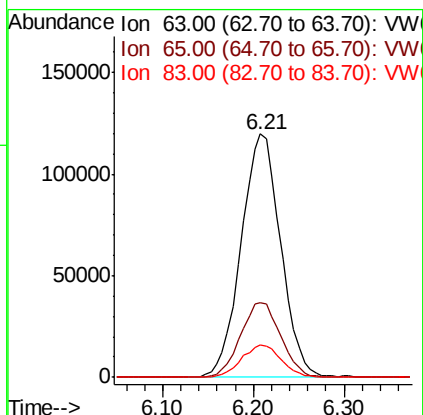
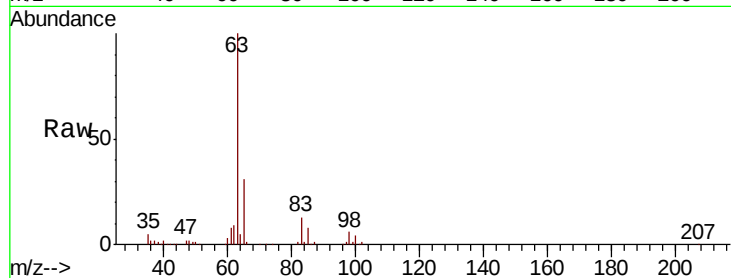
Tgt Ion: 63 Resp: 361168

Ion Ratio Lower Upper

63 100

65 30.8 21.8 40.4

83 13.1 9.2 17.2



#21

2-Butanone

Concen: 44.151 ug/L

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW010297.D

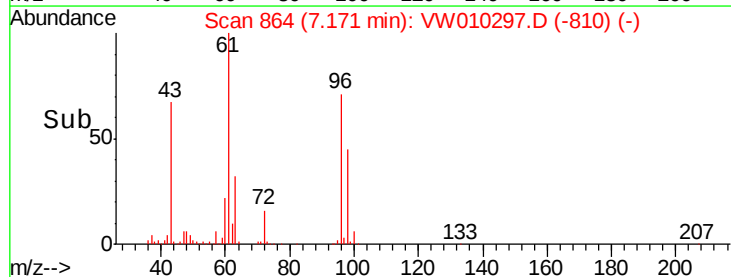
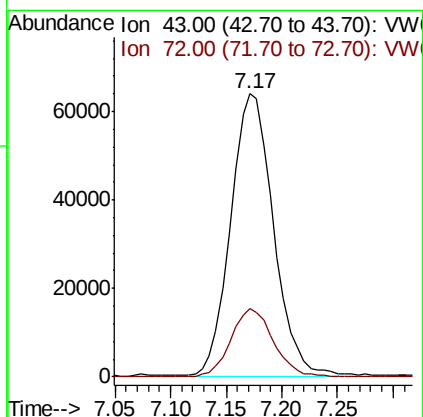
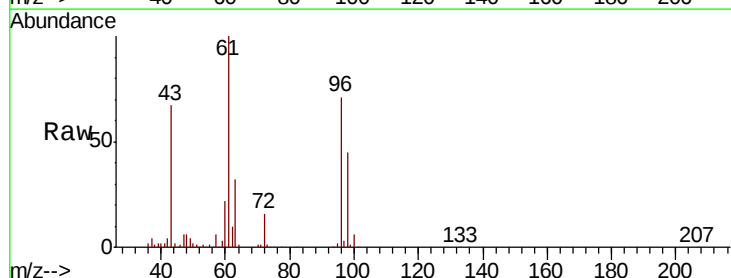
Acq: 07 May 2019 13:39

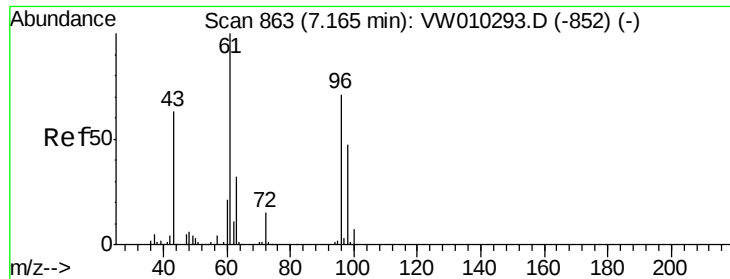
Tgt Ion: 43 Resp: 170882

Ion Ratio Lower Upper

43 100

72 23.8 11.7 35.1



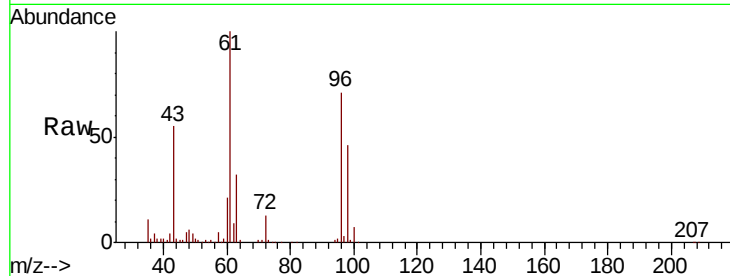


#22

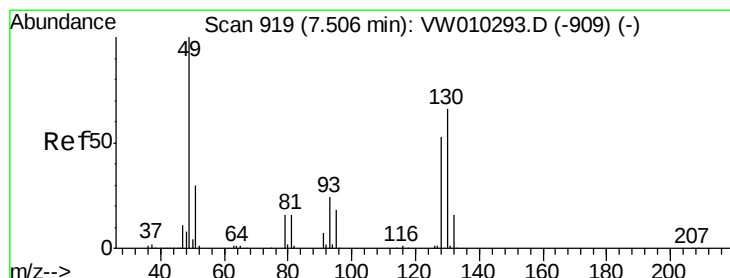
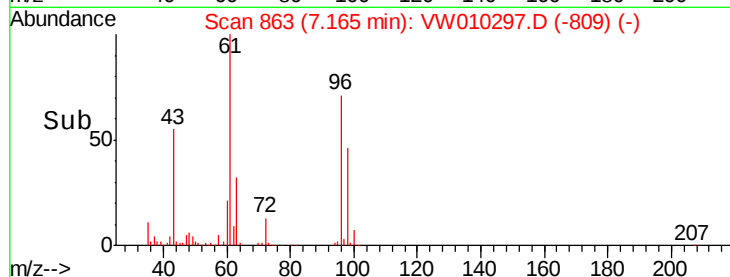
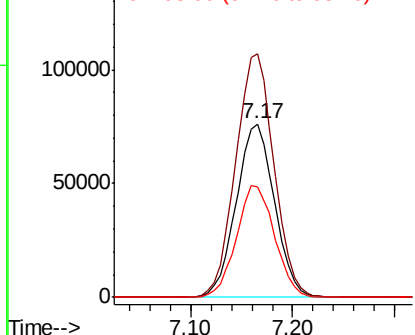
cis-1,2-Dichloroethene
Concen: 23.438 ug/L
RT: 7.17 min Scan# 863
Delta R.T. 0.00 min
Lab File: VW010297.D
Acq: 07 May 2019 13:39

Instrument :
MSVOA_W
ClientSampleId :
VSTD02510

Tgt Ion: 96 Resp: 198664
Ion Ratio Lower Upper
96 100
61 140.1 98.2 182.4
98 63.8 45.8 85.2



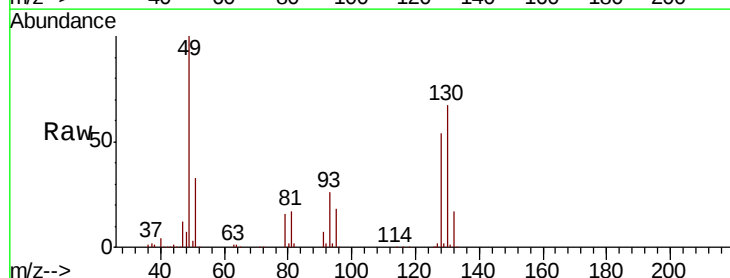
Abundance Ion 96.00 (95.70 to 96.70): VW
Ion 61.00 (60.70 to 61.70): VW
Ion 98.00 (97.70 to 98.70): VW



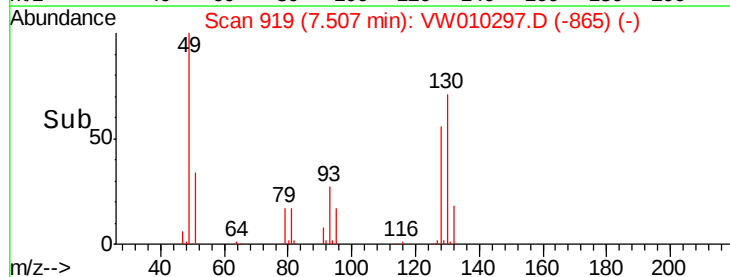
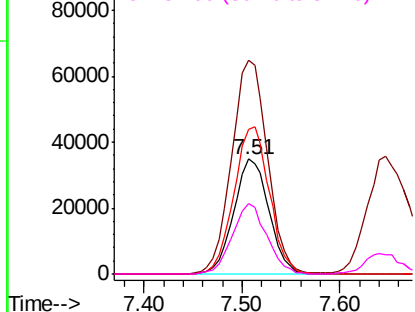
#23

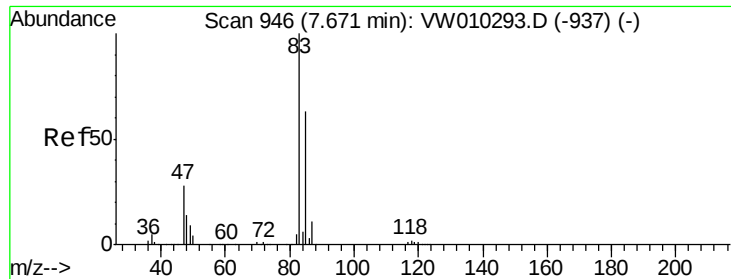
Bromochloromethane
Concen: 22.728 ug/L
RT: 7.51 min Scan# 919
Delta R.T. 0.00 min
Lab File: VW010297.D
Acq: 07 May 2019 13:39

Tgt Ion: 128 Resp: 86431
Ion Ratio Lower Upper
128 100
49 186.4 132.5 246.1
130 125.7 86.7 161.1
51 61.6 45.9 68.9



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VW
Ion 130.00 (129.70 to 130.70): V
Ion 51.00 (50.70 to 51.70): VW

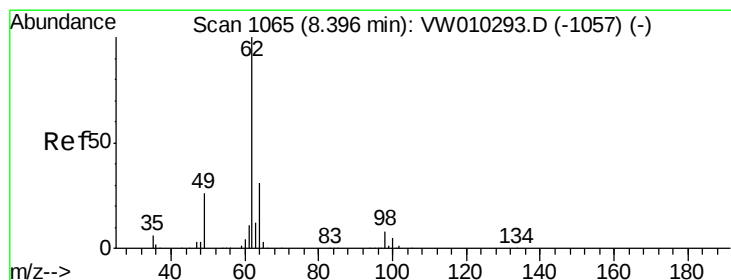
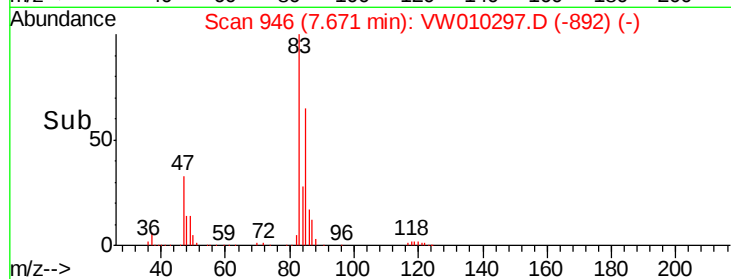
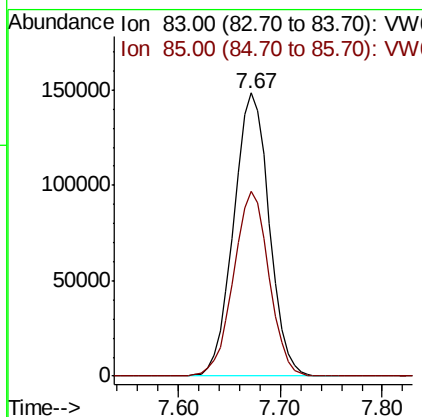
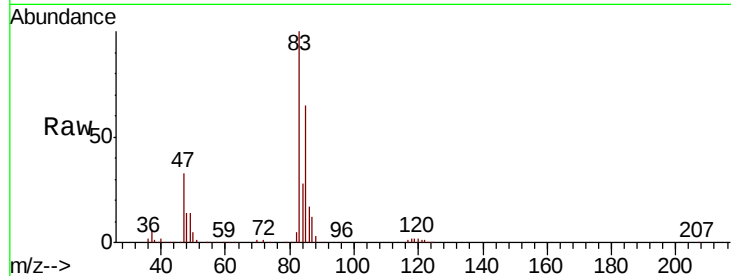




#25
Chloroform
Concen: 23.089 ug/L
RT: 7.67 min Scan# 946
Delta R.T. 0.00 min
Lab File: VW010297.D
Acq: 07 May 2019 13:39

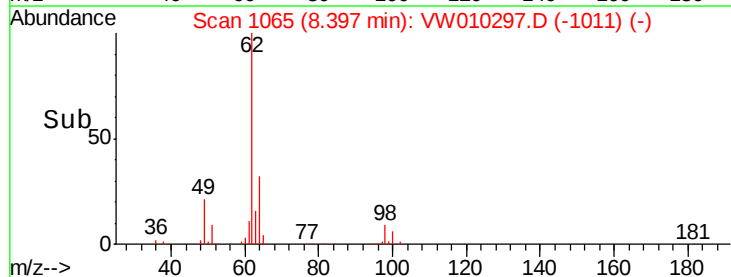
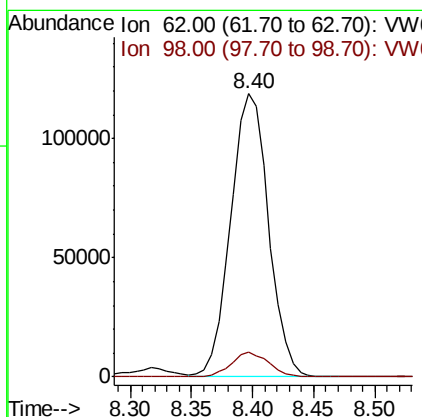
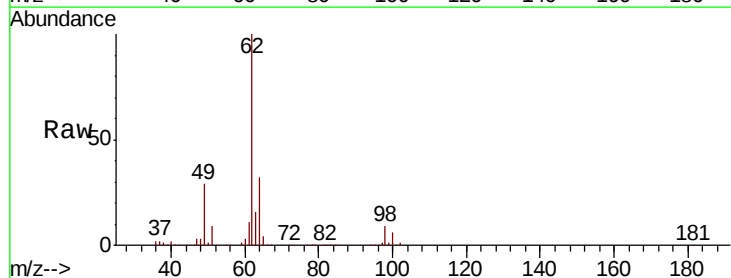
Instrument :
MSVOA_W
ClientSampleId :
VSTD02510

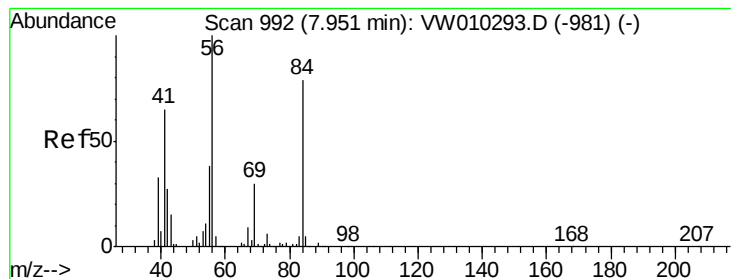
Tgt Ion: 83 Resp: 358755
Ion Ratio Lower Upper
83 100
85 65.3 45.8 85.0



#27
1,2-Dichloroethane
Concen: 22.365 ug/L
RT: 8.40 min Scan# 1065
Delta R.T. 0.00 min
Lab File: VW010297.D
Acq: 07 May 2019 13:39

Tgt Ion: 62 Resp: 255040
Ion Ratio Lower Upper
62 100
98 8.8 6.2 9.4





#30

Cyclohexane

Concen: 25.182 ug/L

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW010297.D

Acq: 07 May 2019 13:39

Instrument :

MSVOA_W

ClientSampleId :

VSTD02510

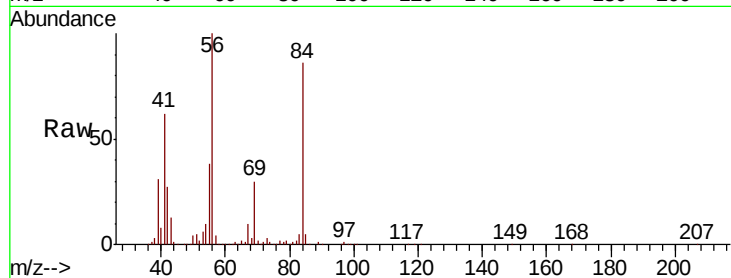
Tgt Ion: 56 Resp: 349786

Ion Ratio Lower Upper

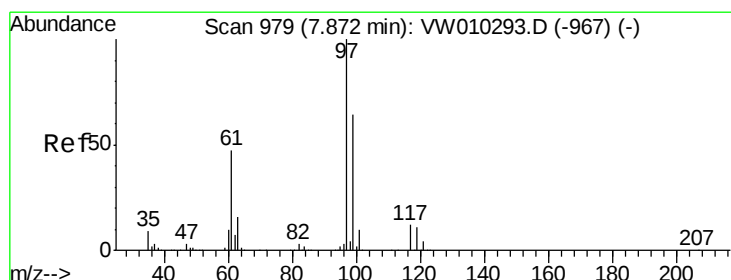
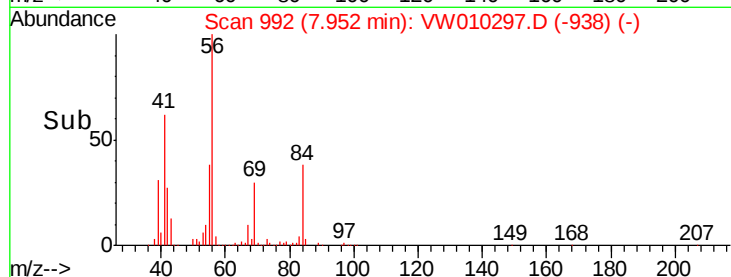
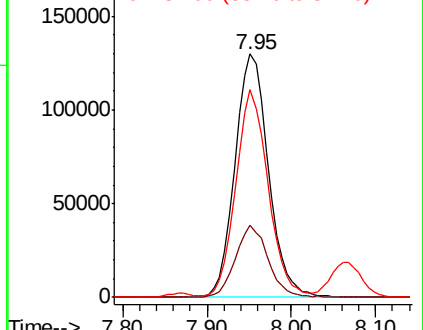
56 100

69 28.5 23.6 35.4

84 82.3 65.8 98.8



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



#31

1,1,1-Trichloroethane

Concen: 23.001 ug/L

RT: 7.87 min Scan# 978

Delta R.T. -0.01 min

Lab File: VW010297.D

Acq: 07 May 2019 13:39

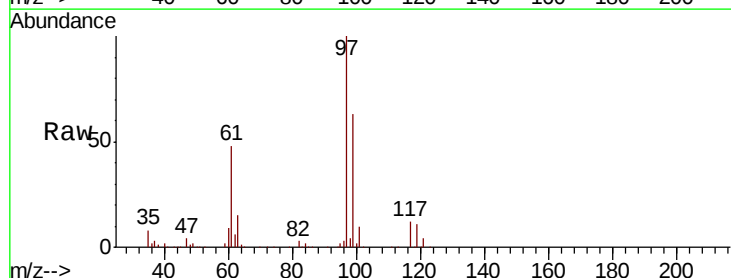
Tgt Ion: 97 Resp: 281394

Ion Ratio Lower Upper

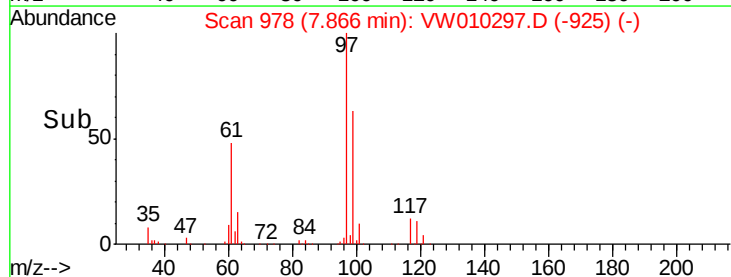
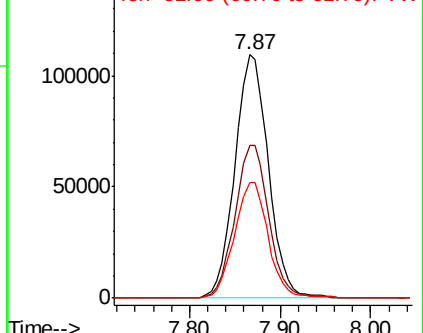
97 100

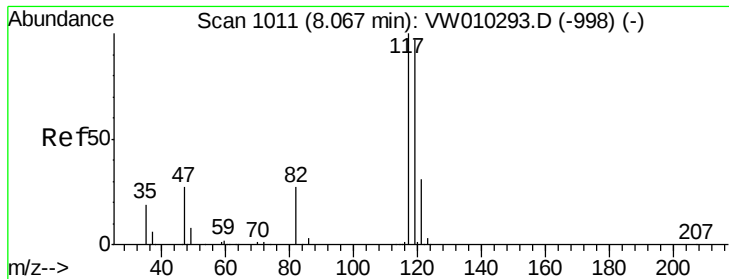
99 63.6 51.8 77.6

61 48.0 39.3 58.9



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: 23.088 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VW010297.D

Acq: 07 May 2019 13:39

Instrument :

MSVOA_W

ClientSampleId :

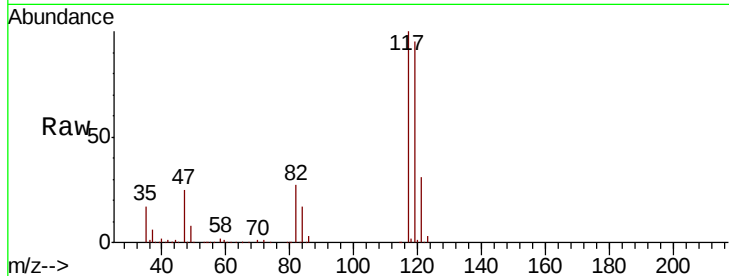
VSTD02510

Tgt Ion:117 Resp: 280732

Ion Ratio Lower Upper

117 100

119 95.9 76.6 114.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

8.07

120000

100000

80000

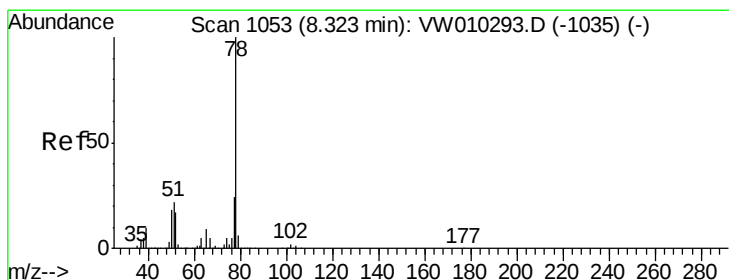
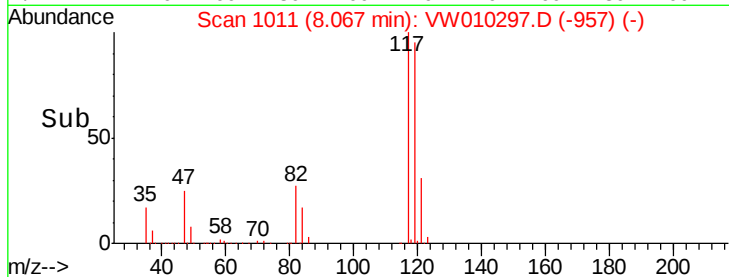
60000

40000

20000

0

Time-->



#34

Benzene

Concen: 24.243 ug/L

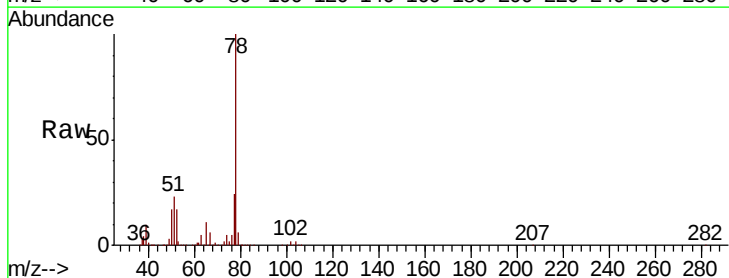
RT: 8.32 min Scan# 1053

Delta R.T. 0.00 min

Lab File: VW010297.D

Acq: 07 May 2019 13:39

Tgt Ion: 78 Resp: 799371



Abundance Ion 78.00 (77.70 to 78.70): VW

400000

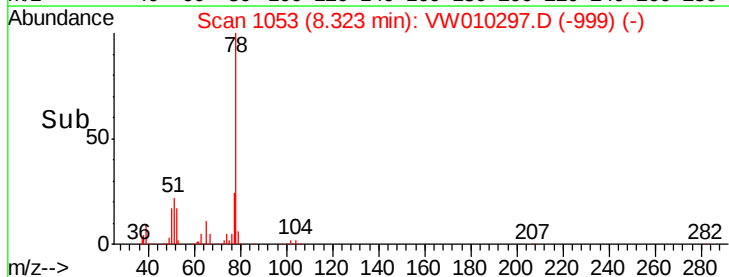
300000

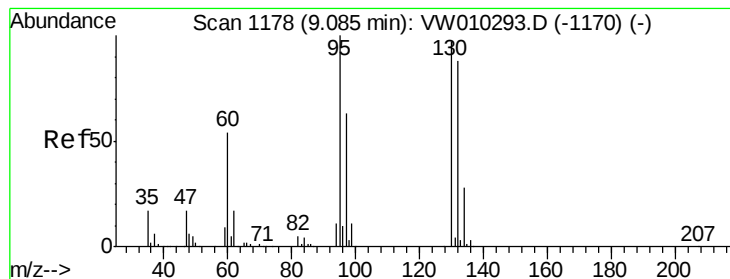
200000

100000

0

Time-->





#35

Trichloroethene

Concen: 23.383 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.01 min

Lab File: VW010297.D

Acq: 07 May 2019 13:39

Instrument :

MSVOA_W

ClientSampleId :

VSTD02510

Tgt Ion: 95 Resp: 203719

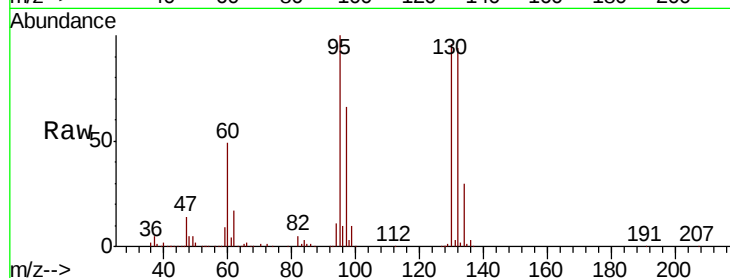
Ion Ratio Lower Upper

95 100

97 64.5 44.8 83.2

132 94.6 64.7 120.1

130 97.8 68.3 126.9



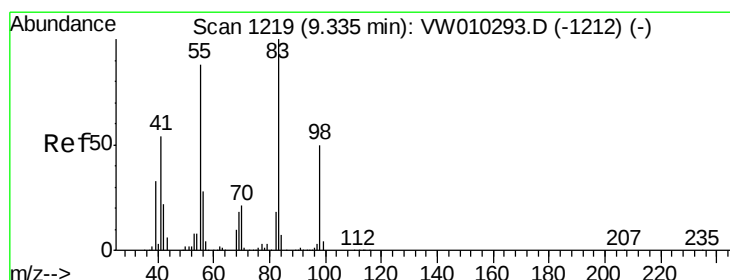
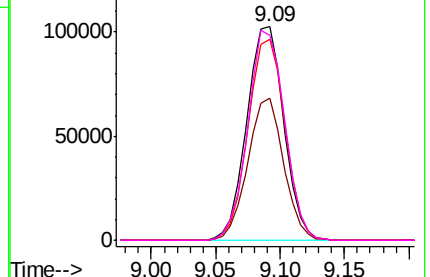
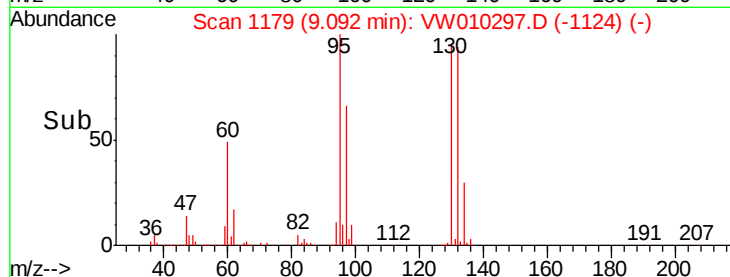
Abundance

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: 24.980 ug/L

RT: 9.33 min Scan# 1218

Delta R.T. -0.01 min

Lab File: VW010297.D

Acq: 07 May 2019 13:39

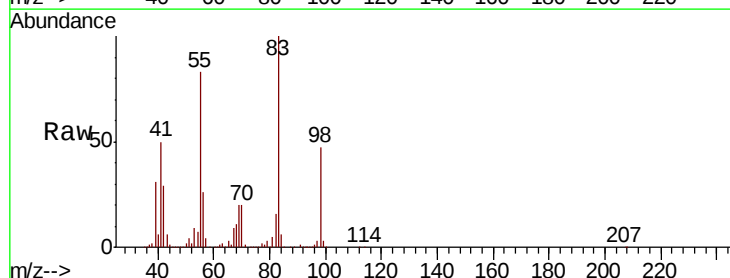
Tgt Ion: 83 Resp: 367609

Ion Ratio Lower Upper

83 100

55 84.1 67.2 100.8

98 48.7 38.7 58.1

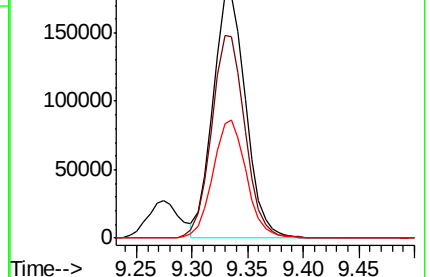
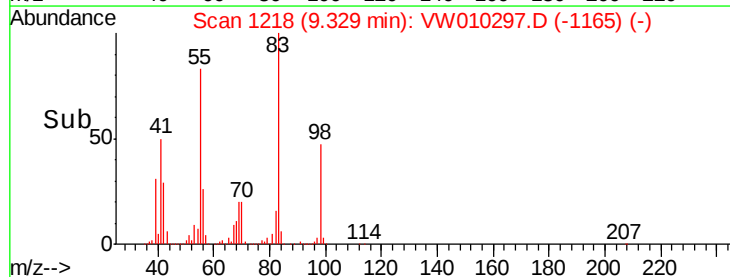


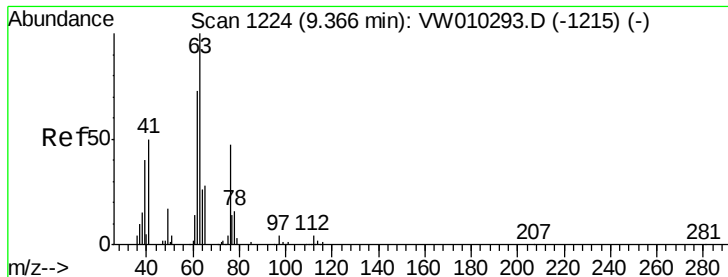
Abundance

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

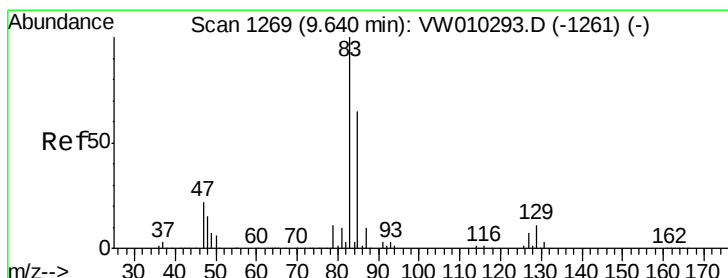
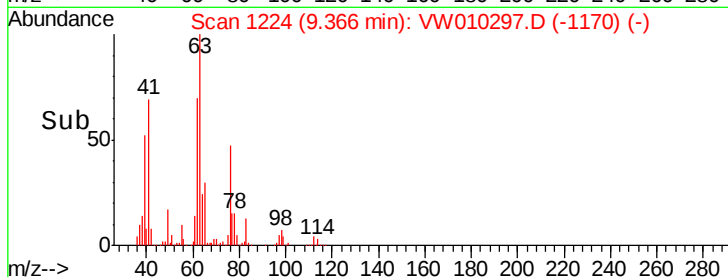
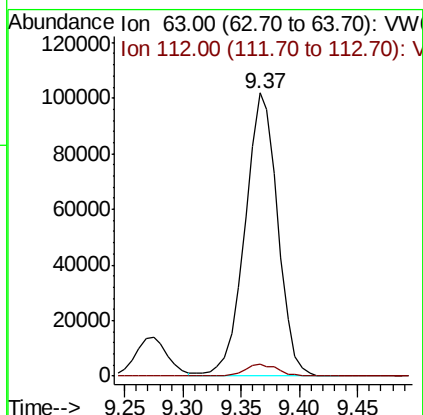
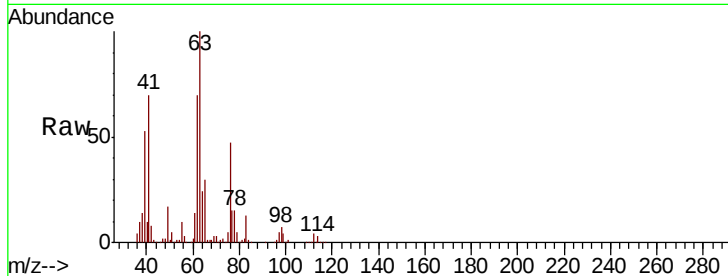




#40
 1,2-Dichloropropane
 Concen: 23.771 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. 0.00 min
 Lab File: VW010297.D
 Acq: 07 May 2019 13:39

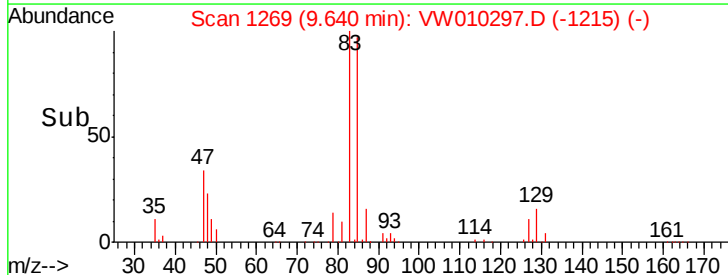
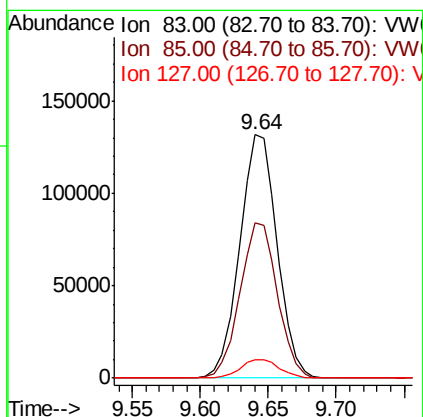
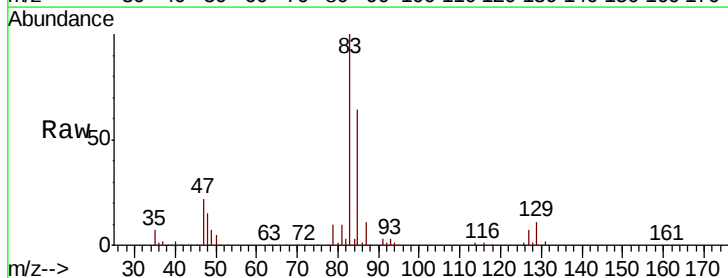
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02510

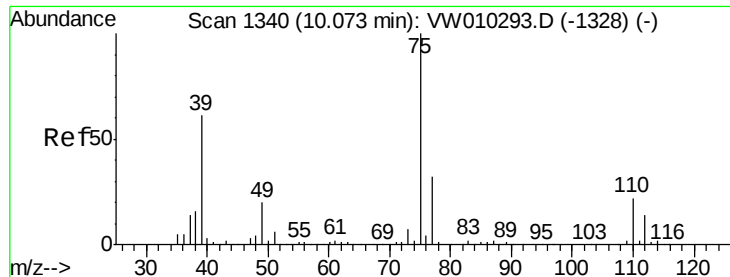
Tgt Ion: 63 Resp: 200014
 Ion Ratio Lower Upper
 63 100
 112 4.4 3.2 4.8



#41
 Bromodichloromethane
 Concen: 23.274 ug/L
 RT: 9.64 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VW010297.D
 Acq: 07 May 2019 13:39

Tgt Ion: 83 Resp: 253411
 Ion Ratio Lower Upper
 83 100
 85 63.9 45.5 84.5
 127 7.5 5.6 8.4





#42

cis-1,3-Dichloroprene

Concen: 23.994 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW010297.D

Acq: 07 May 2019 13:39

Instrument :

MSVOA_W

ClientSampleId :

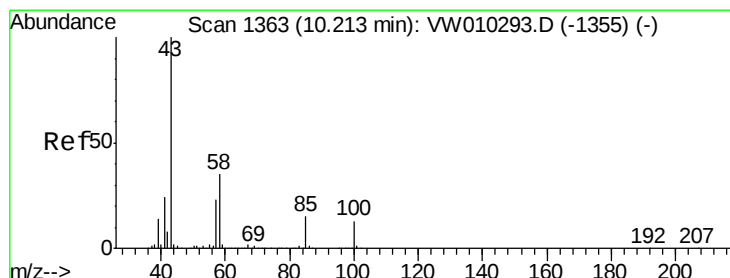
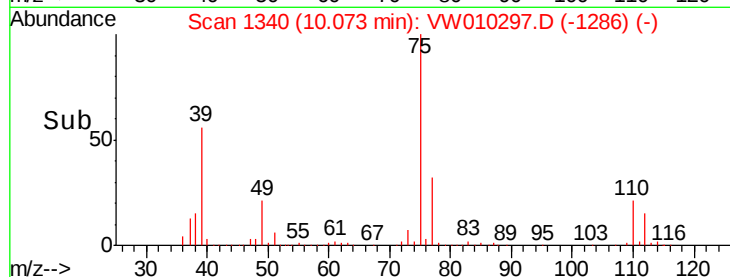
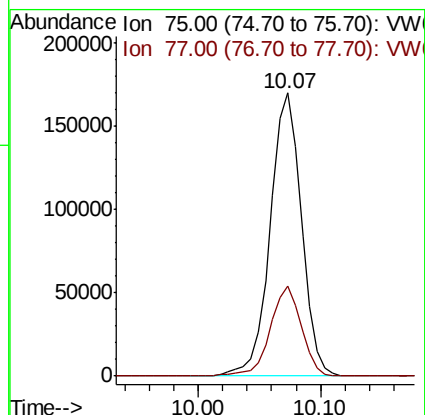
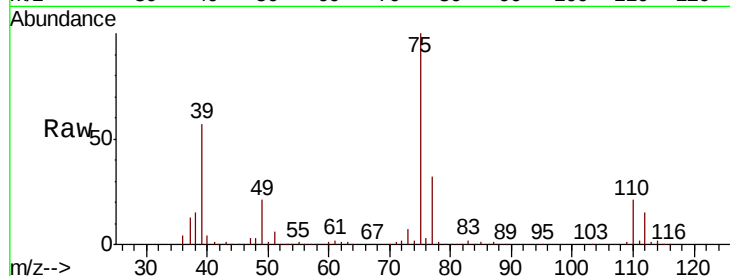
VSTD02510

Tgt Ion: 75 Resp: 302103

Ion Ratio Lower Upper

75 100

77 31.8 22.5 41.7



#43

4-Methyl-2-pentanone

Concen: 45.752 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. -0.01 min

Lab File: VW010297.D

Acq: 07 May 2019 13:39

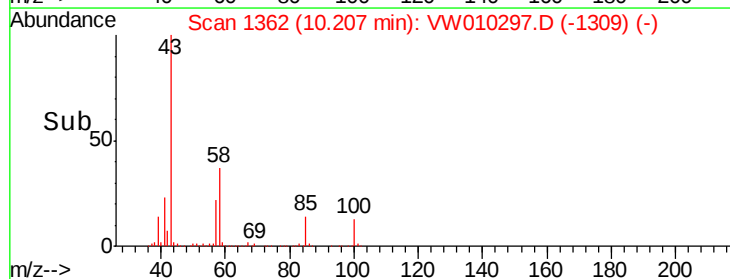
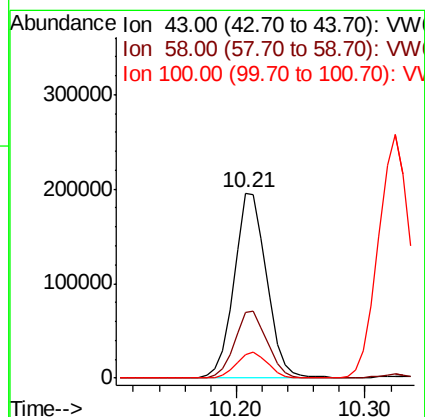
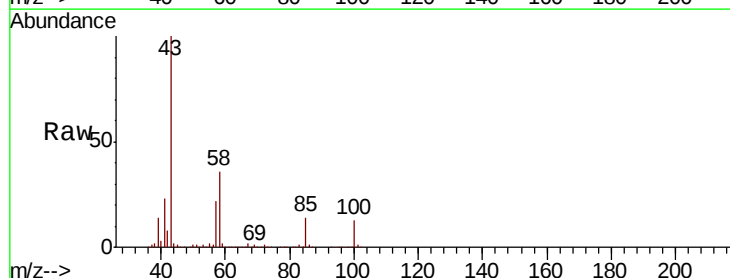
Tgt Ion: 43 Resp: 342948

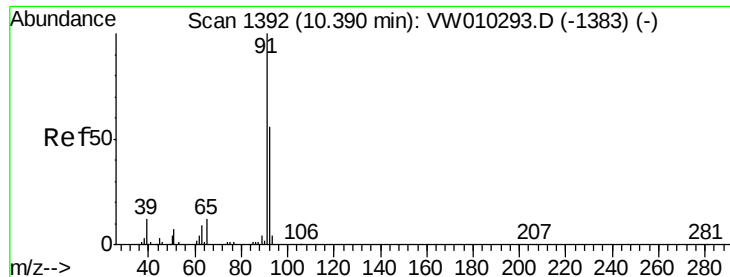
Ion Ratio Lower Upper

43 100

58 36.2 28.3 42.5

100 13.6 10.5 15.7





#44

Toluene

Concen: 24.655 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW010297.D

Acq: 07 May 2019 13:39

Instrument :

MSVOA_W

ClientSampleId :

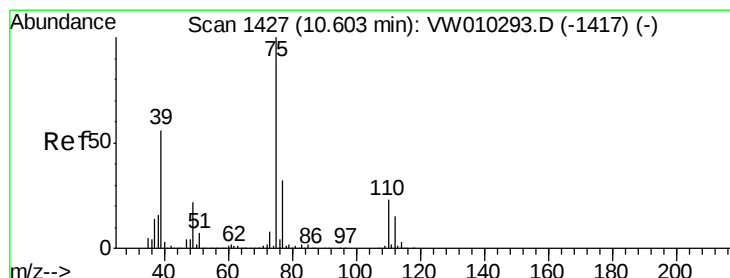
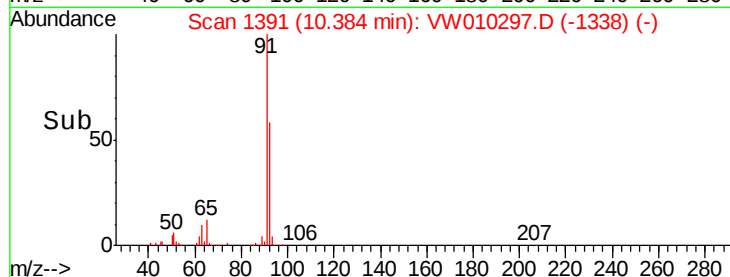
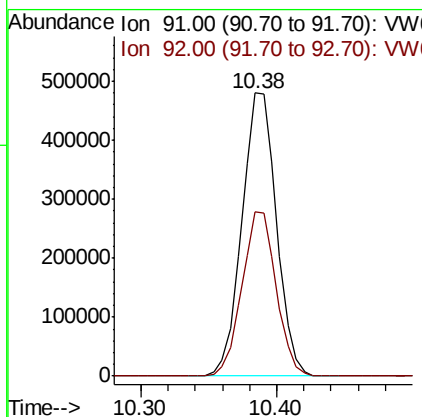
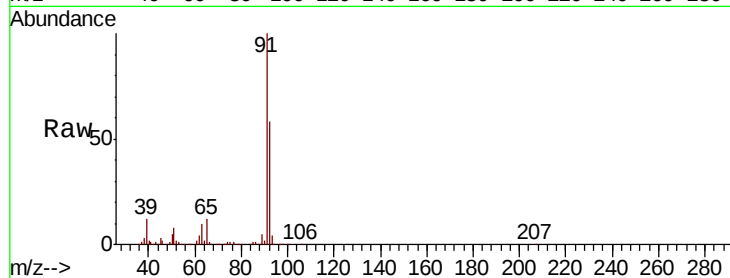
VSTD02510

Tgt Ion: 91 Resp: 851435

Ion Ratio Lower Upper

91 100

92 57.9 39.5 73.4



#45

trans-1,3-Dichloropropene

Concen: 23.966 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW010297.D

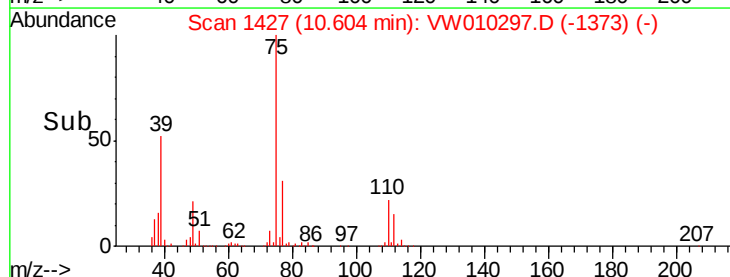
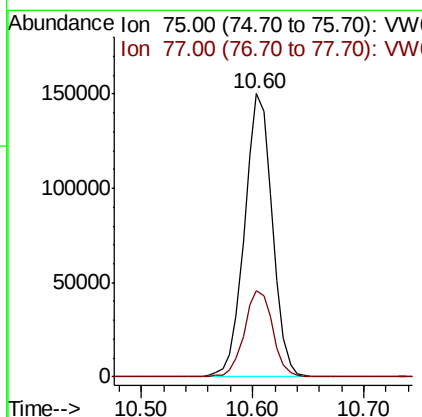
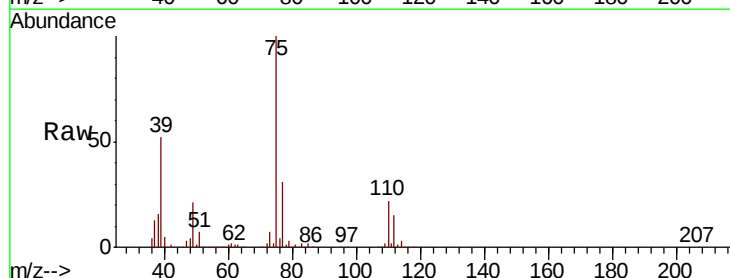
Acq: 07 May 2019 13:39

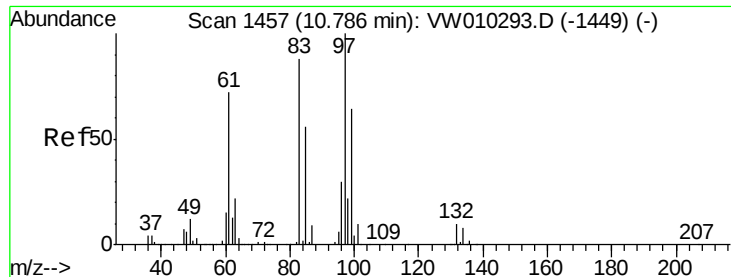
Tgt Ion: 75 Resp: 260192

Ion Ratio Lower Upper

75 100

77 30.6 22.1 41.1





#46

1,1,2-Trichloroethane

Concen: 22.674 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW010297.D

Acq: 07 May 2019 13:39

Instrument :

MSVOA_W

ClientSampleId :

VSTD02510

Tgt Ion: 97 Resp: 142499

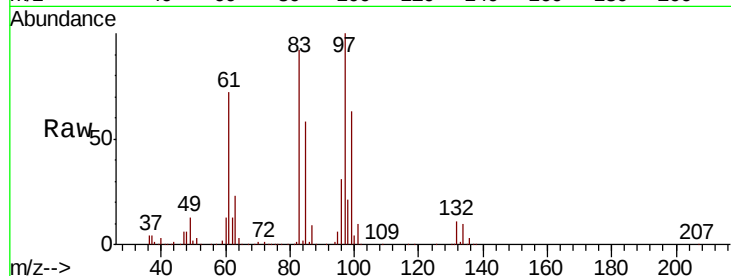
Ion Ratio Lower Upper

97 100

83 91.9 61.2 113.8

85 58.3 39.3 72.9

99 63.0 44.7 82.9



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

120000

100000

80000

60000

40000

20000

0

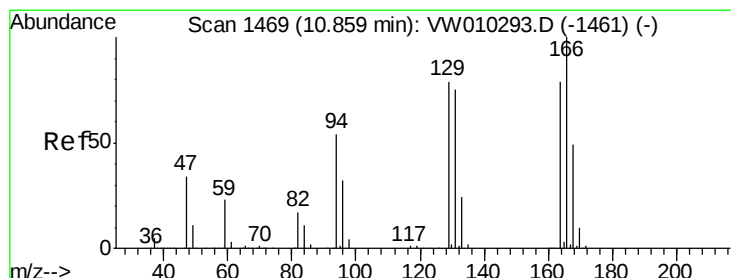
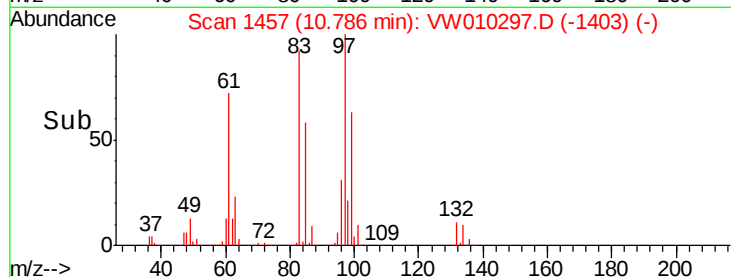
10.79

10.75

10.80

10.85

Time-->



#47

Tetrachloroethene

Concen: 23.819 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW010297.D

Acq: 07 May 2019 13:39

Tgt Ion: 164 Resp: 156904

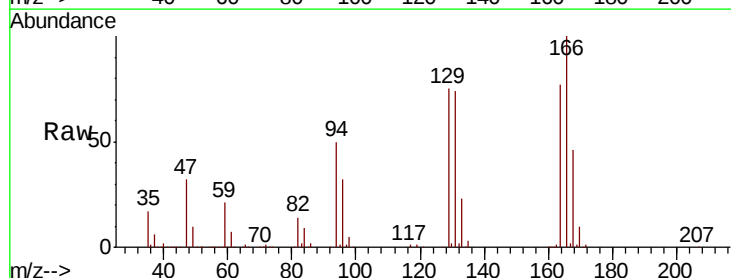
Ion Ratio Lower Upper

164 100

129 97.8 70.1 130.3

131 96.8 66.2 123.0

166 130.4 88.8 164.8



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

150000

100000

50000

0

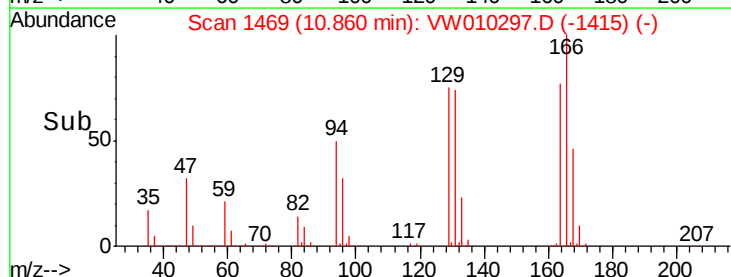
10.86

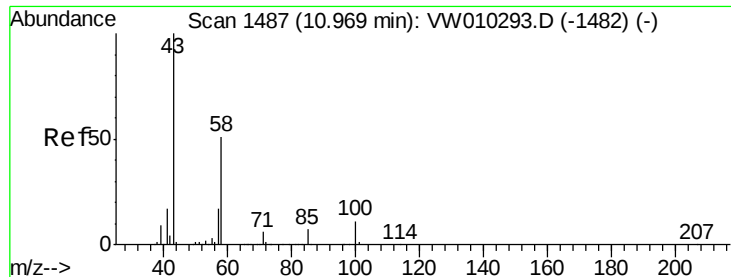
10.80

10.85

10.90

Time-->

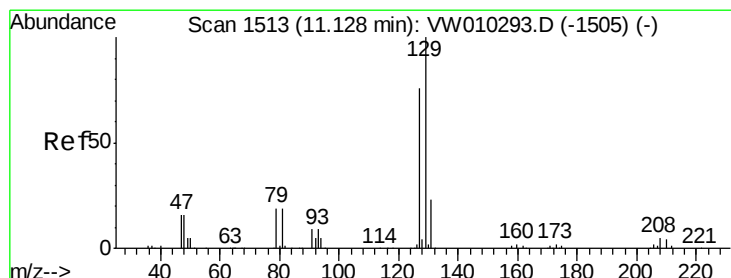
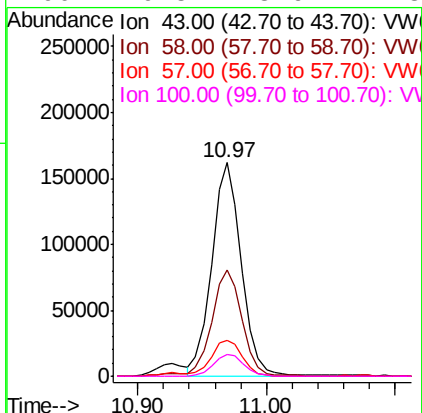
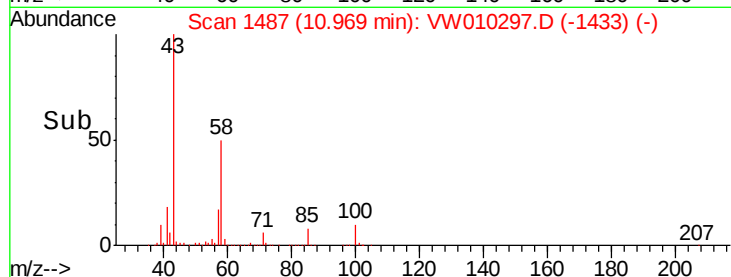
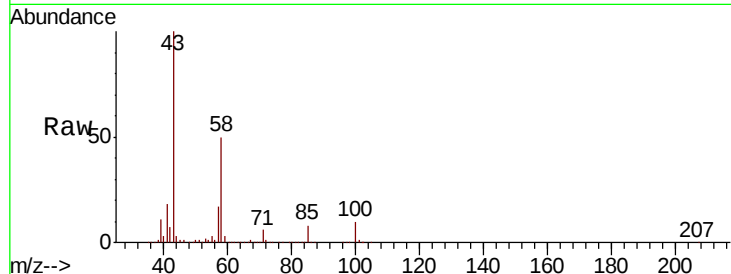




#49
2-Hexanone
Concen: 45.782 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW010297.D
Acq: 07 May 2019 13:39

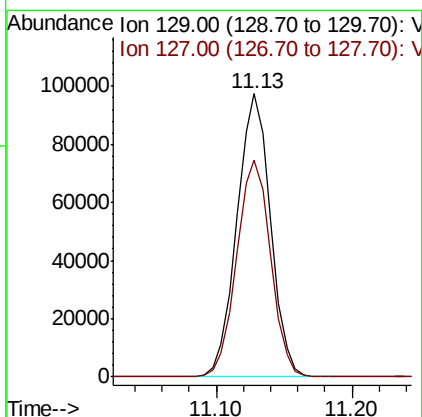
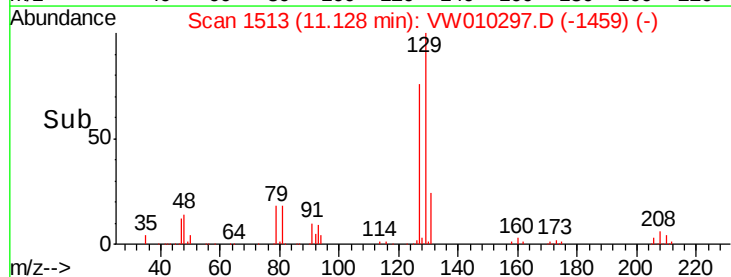
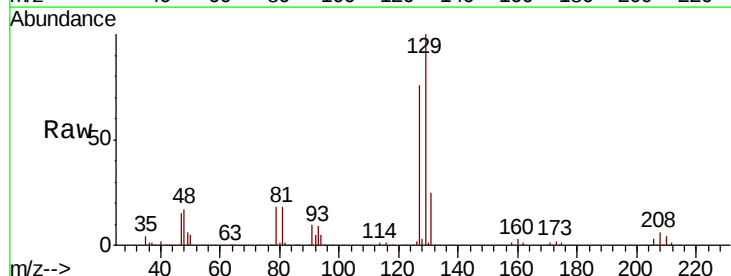
Instrument :
MSVOA_W
ClientSampleId :
VSTD02510

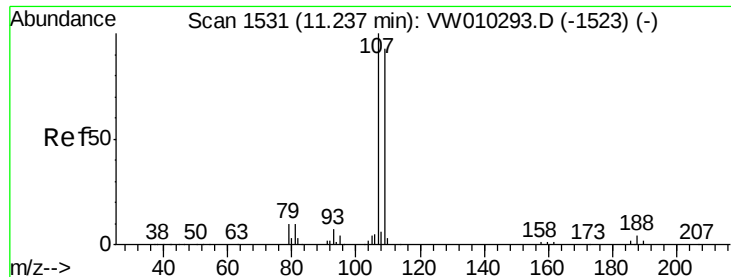
Tgt Ion:	43	Resp:	260250
Ion	Ratio	Lower	Upper
43	100		
58	49.2	39.2	58.8
57	17.2	14.1	21.1
100	10.5	8.6	12.8



#50
Dibromochloromethane
Concen: 23.202 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW010297.D
Acq: 07 May 2019 13:39

Tgt Ion:	129	Resp:	167734
Ion	Ratio	Lower	Upper
129	100		
127	76.4	53.3	99.1

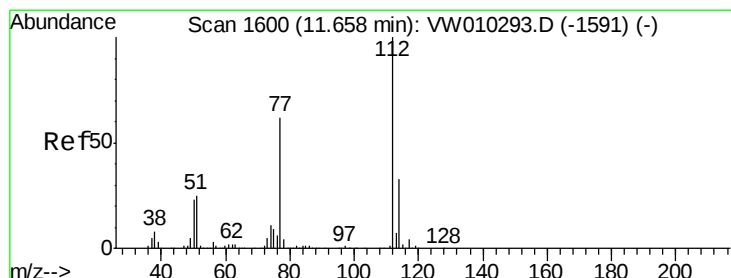
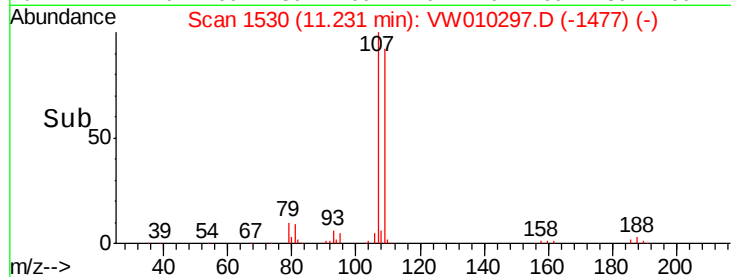
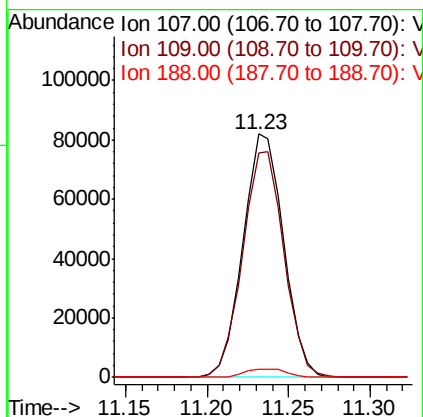
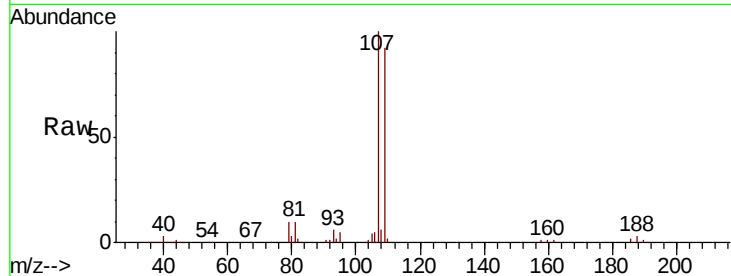




#51
 1,2-Dibromoethane
 Concen: 23.027 ug/L
 RT: 11.23 min Scan# 1530
 Delta R.T. -0.01 min
 Lab File: VW010297.D
 Acq: 07 May 2019 13:39

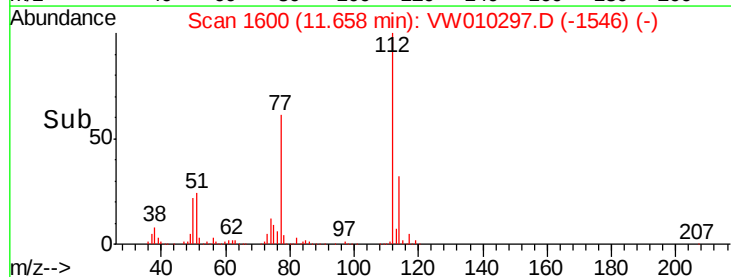
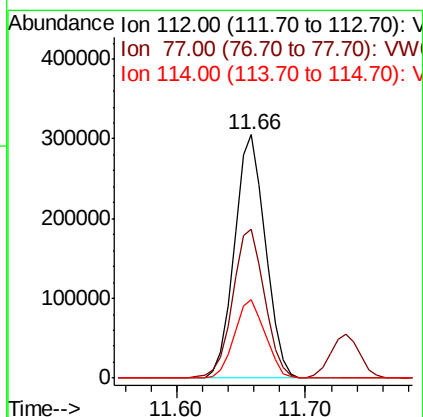
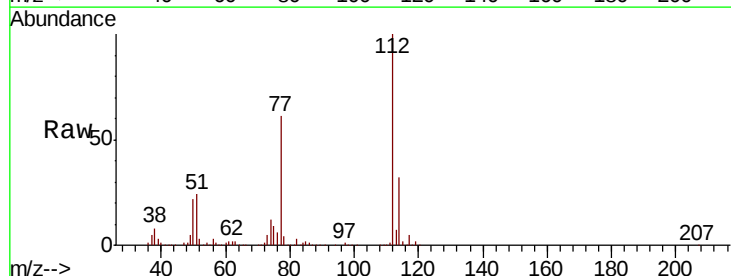
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02510

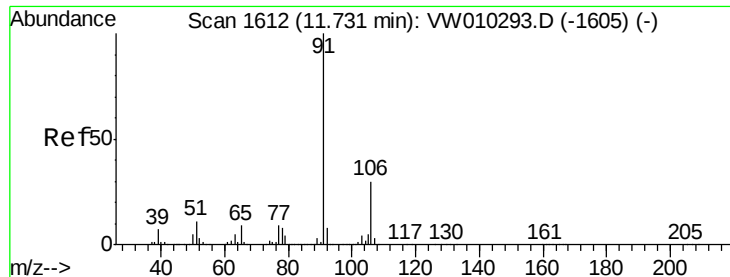
Tgt Ion	Ratio	Lower	Upper
107	100		
109	92.3	65.3	121.3
188	3.2	2.8	4.2



#52
 Chlorobenzene
 Concen: 23.464 ug/L
 RT: 11.66 min Scan# 1600
 Delta R.T. 0.00 min
 Lab File: VW010297.D
 Acq: 07 May 2019 13:39

Tgt Ion	Ratio	Lower	Upper
112	100		
77	61.4	49.3	73.9
114	32.1	22.9	42.5

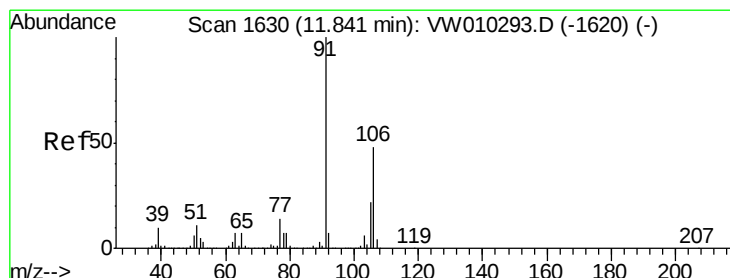
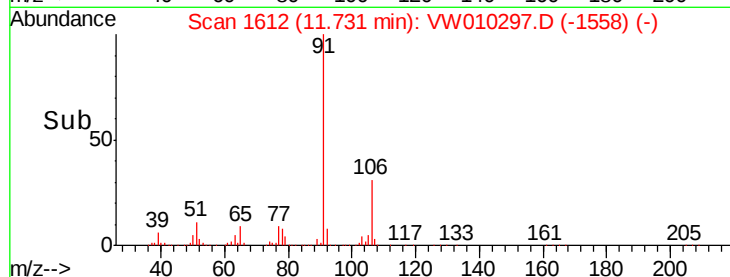
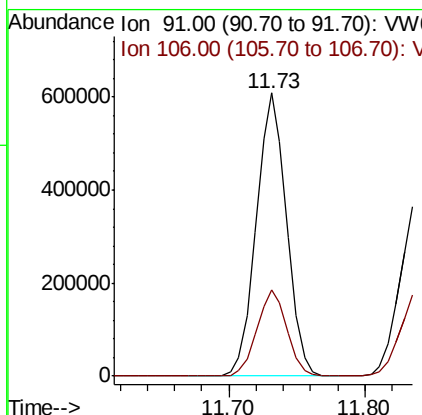
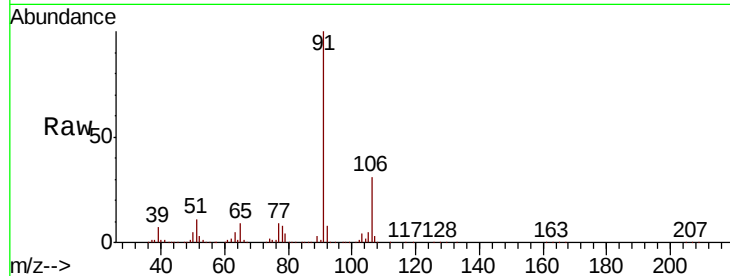




#53
Ethylbenzene
Concen: 24.616 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW010297.D
Acq: 07 May 2019 13:39

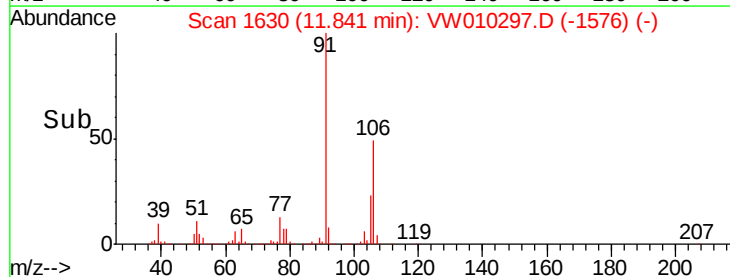
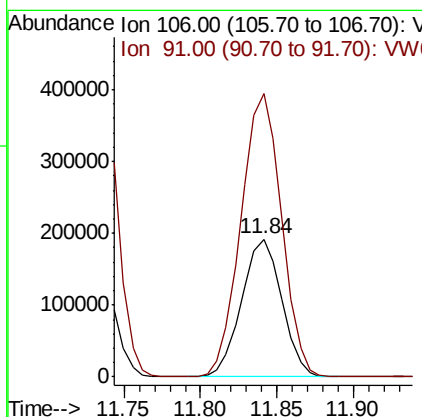
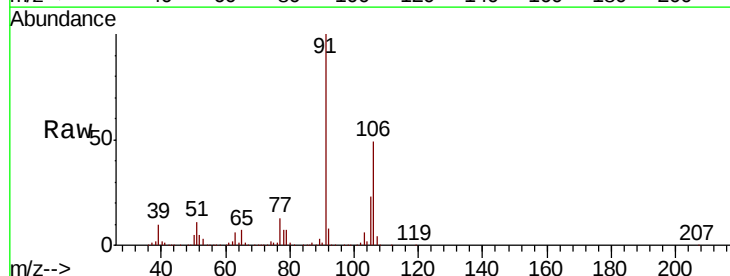
Instrument :
MSVOA_W
ClientSampleId :
VSTD02510

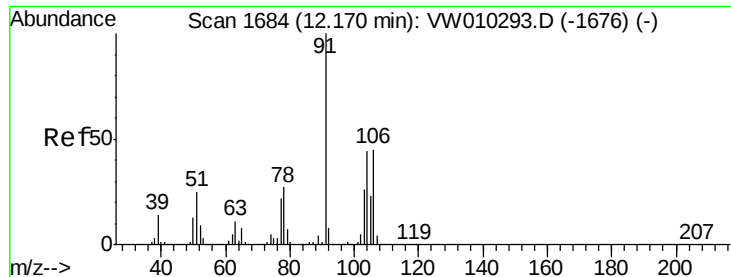
Tgt Ion: 91 Resp: 948826
Ion Ratio Lower Upper
91 100
106 30.6 21.0 39.0



#54
m,p-Xylene
Concen: 25.048 ug/L
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW010297.D
Acq: 07 May 2019 13:39

Tgt Ion: 106 Resp: 351231
Ion Ratio Lower Upper
106 100
91 205.7 145.5 270.1

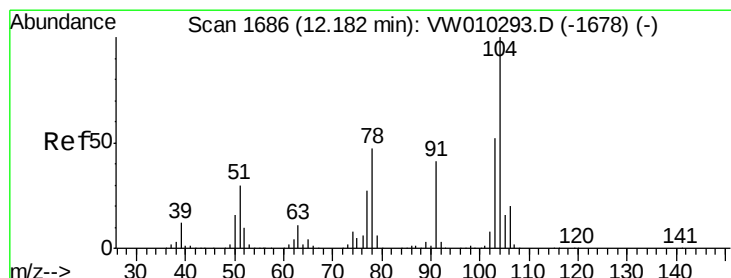
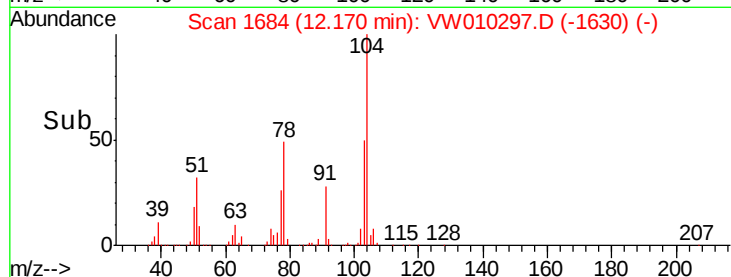
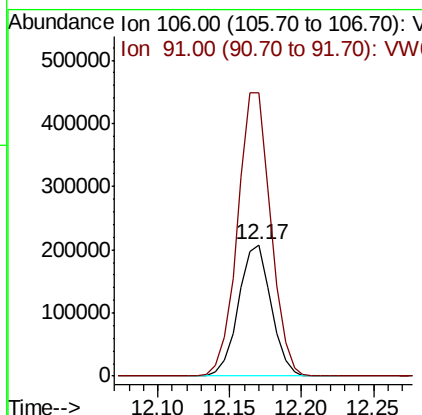
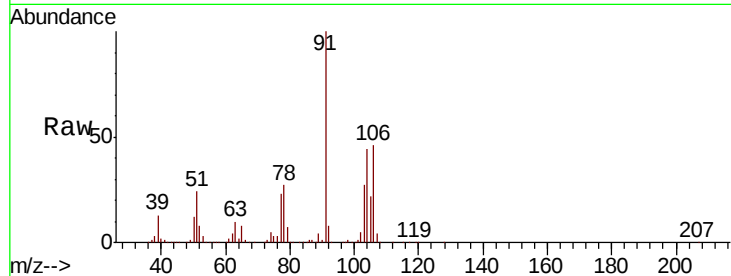




#55
o-xylene
Concen: 24.909 ug/L
RT: 12.17 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VW010297.D
Acq: 07 May 2019 13:39

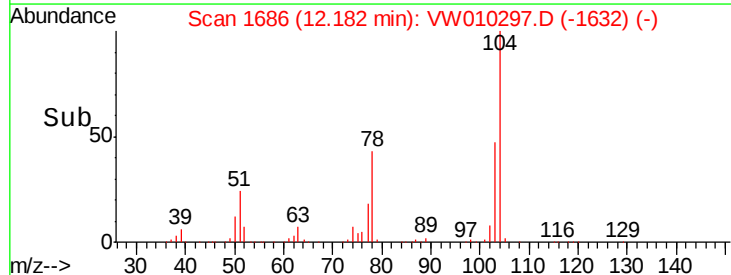
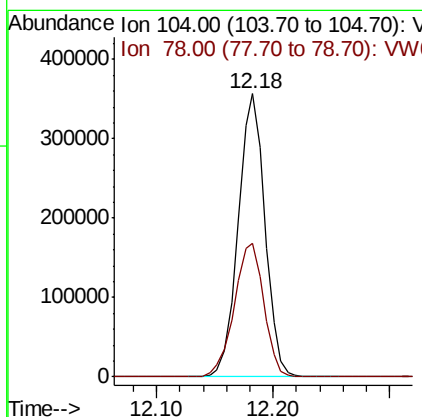
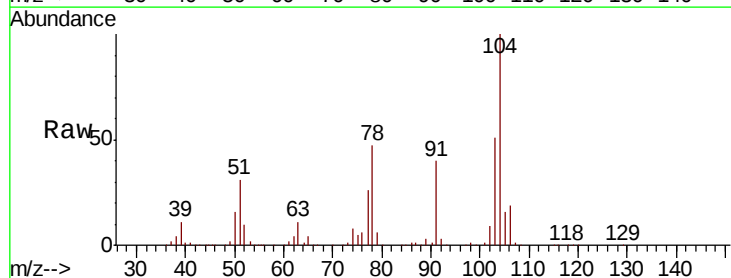
Instrument :
MSVOA_W
ClientSampled :
VSTD02510

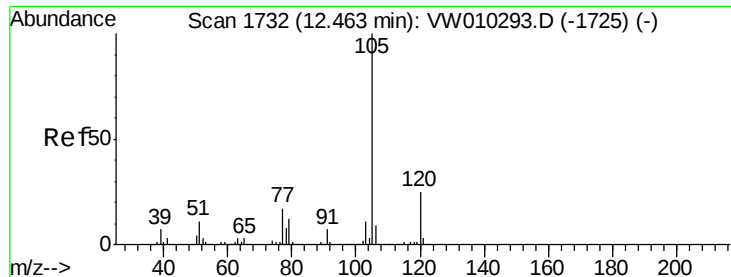
Tgt Ion:106 Resp: 325160
Ion Ratio Lower Upper
106 100
91 215.9 154.6 287.2



#56
Styrene
Concen: 25.331 ug/L
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW010297.D
Acq: 07 May 2019 13:39

Tgt Ion:104 Resp: 570596
Ion Ratio Lower Upper
104 100
78 47.2 33.3 61.9





#57

Isopropylbenzene

Concen: 25.563 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW010297.D

Acq: 07 May 2019 13:39

Instrument :

MSVOA_W

ClientSampleId :

VSTD02510

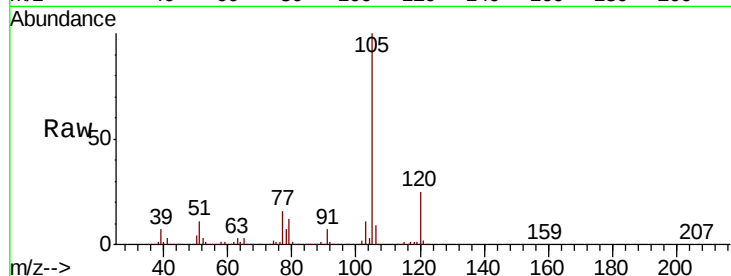
Tgt Ion: 105 Resp: 917045

Ion Ratio Lower Upper

105 100

120 25.8 20.5 30.7

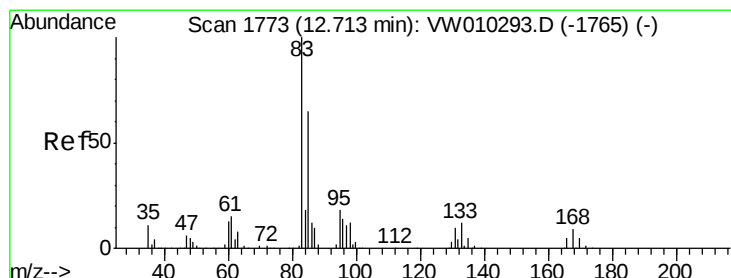
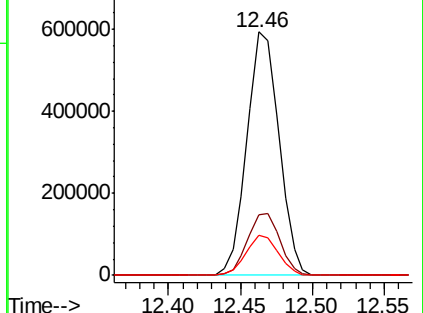
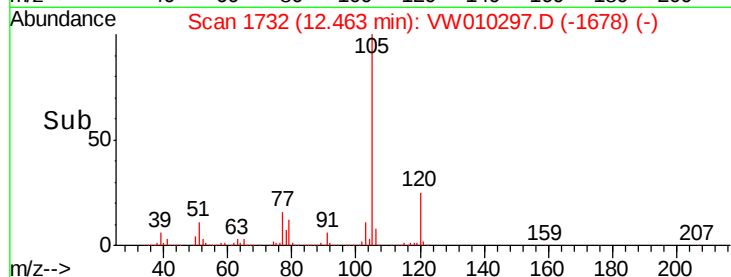
77 16.4 13.5 20.3



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: 22.623 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW010297.D

Acq: 07 May 2019 13:39

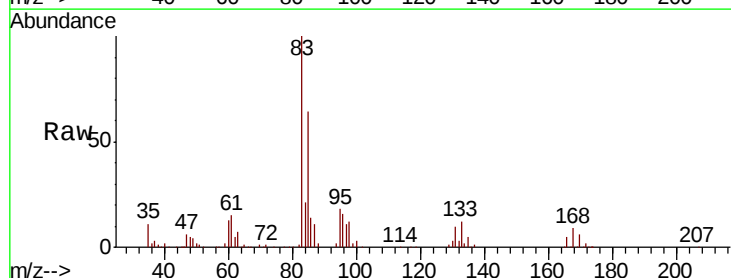
Tgt Ion: 83 Resp: 195407

Ion Ratio Lower Upper

83 100

85 63.7 45.6 84.8

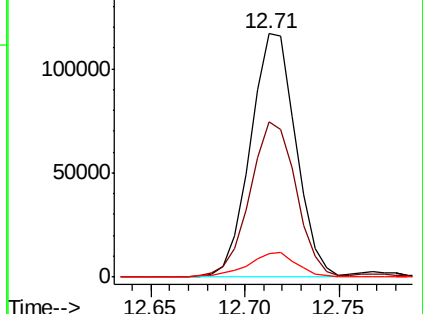
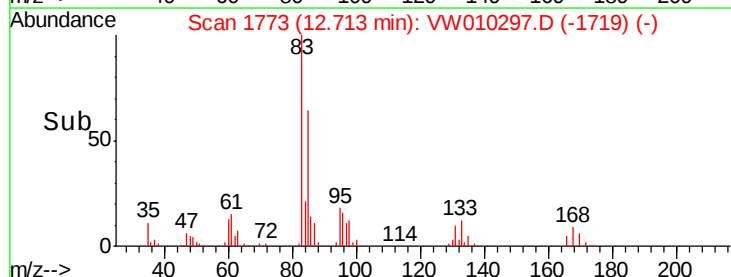
131 9.8 8.2 12.4

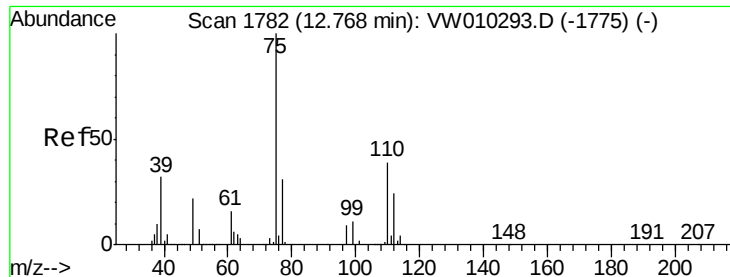


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 22.781 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW010297.D

Acq: 07 May 2019 13:39

Instrument :

MSVOA_W

ClientSampleId :

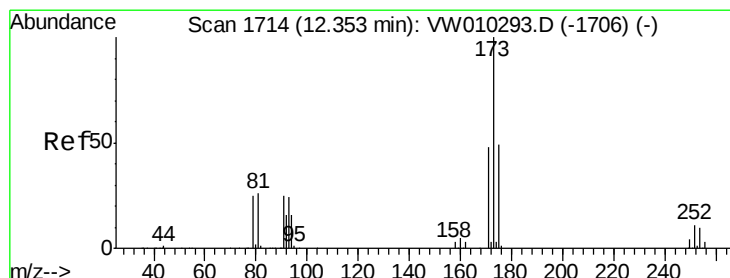
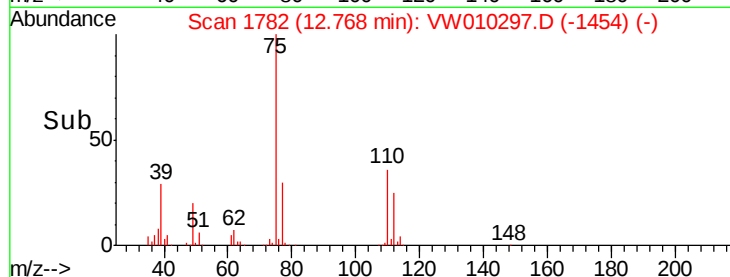
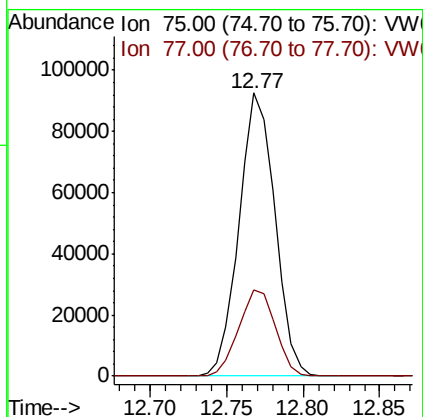
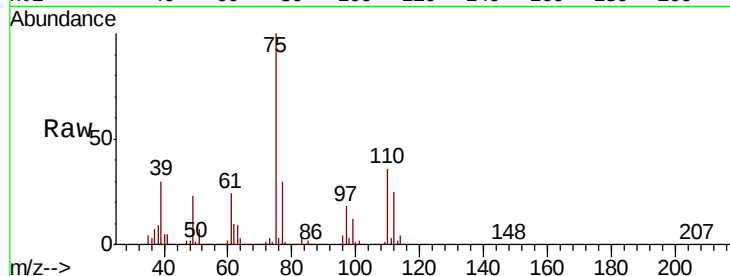
VSTD02510

Tgt Ion: 75 Resp: 151049

Ion Ratio Lower Upper

75 100

77 31.3 25.7 38.5



#62

Bromoform

Concen: 23.033 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.01 min

Lab File: VW010297.D

Acq: 07 May 2019 13:39

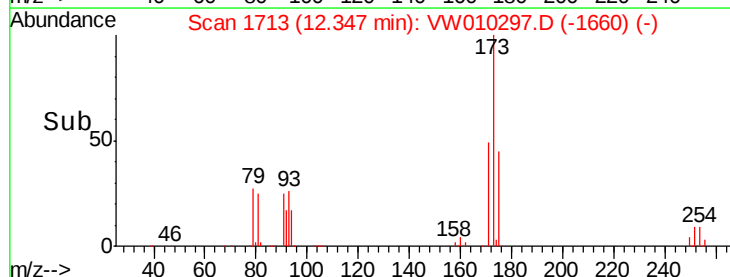
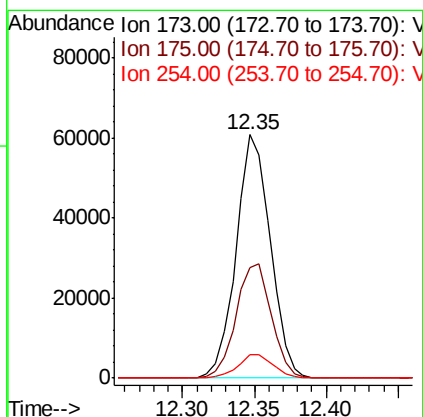
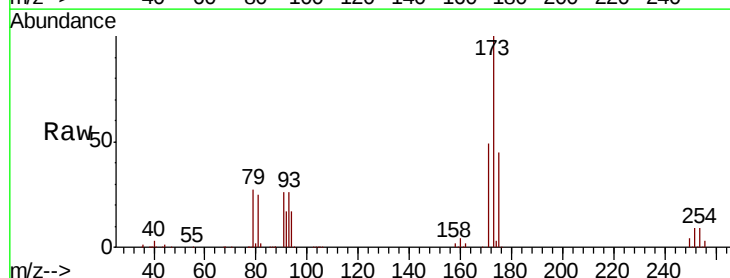
Tgt Ion: 173 Resp: 100448

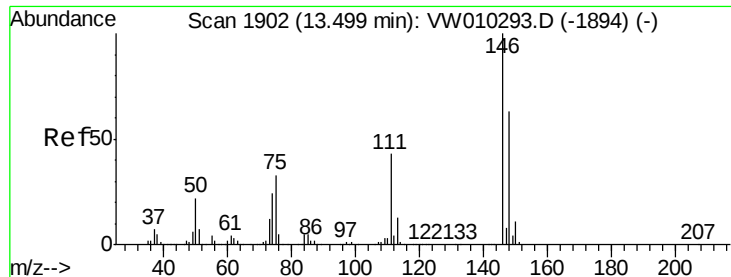
Ion Ratio Lower Upper

173 100

175 48.2 39.4 59.2

254 9.8 7.5 11.3

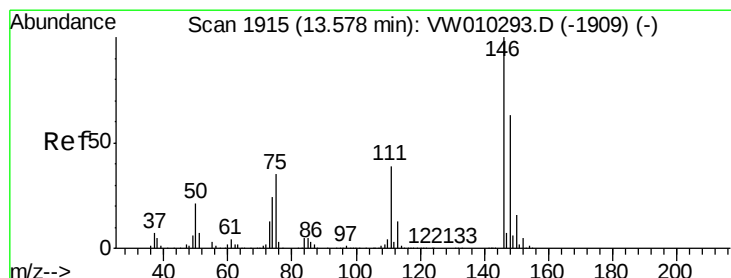
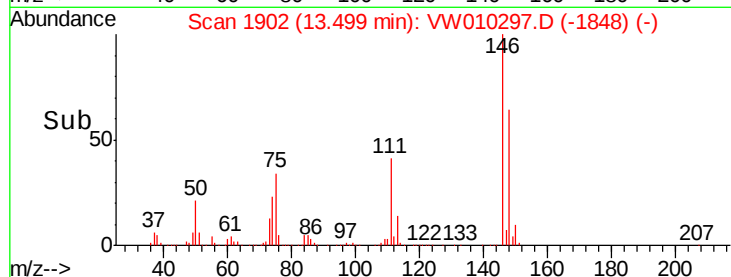
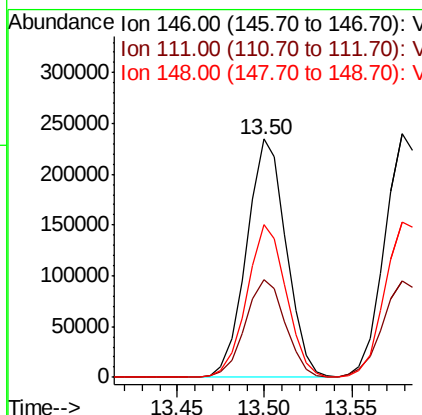
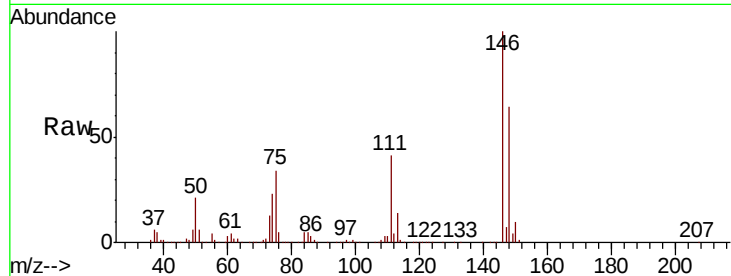




#63
 1,3-Dichlorobenzene
 Concen: 24.510 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW010297.D
 Acq: 07 May 2019 13:39

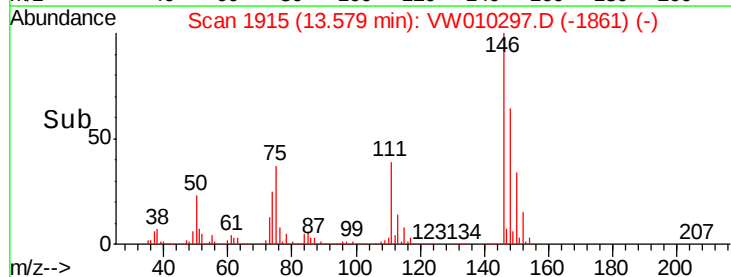
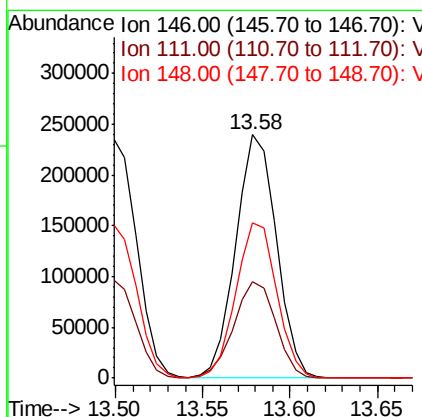
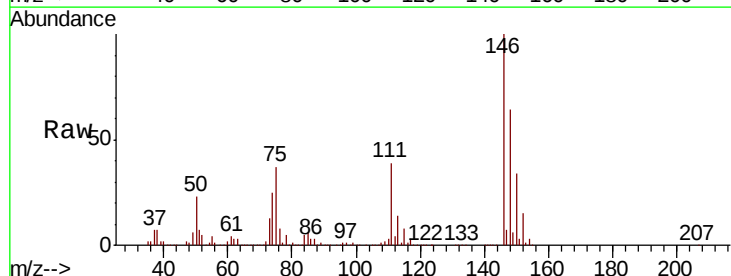
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02510

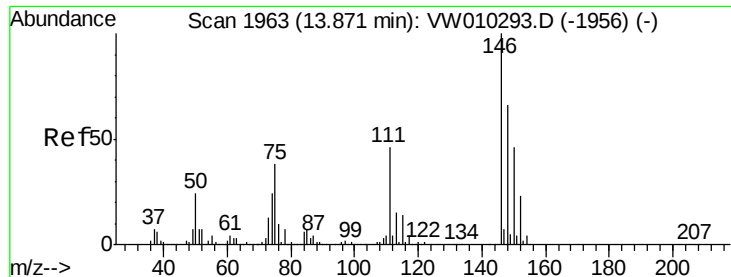
Tgt Ion:146 Resp: 370050
 Ion Ratio Lower Upper
 146 100
 111 40.8 30.0 55.8
 148 64.0 43.9 81.5



#64
 1,4-Dichlorobenzene
 Concen: 23.792 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW010297.D
 Acq: 07 May 2019 13:39

Tgt Ion:146 Resp: 389015
 Ion Ratio Lower Upper
 146 100
 111 39.4 27.4 51.0
 148 63.7 44.0 81.6

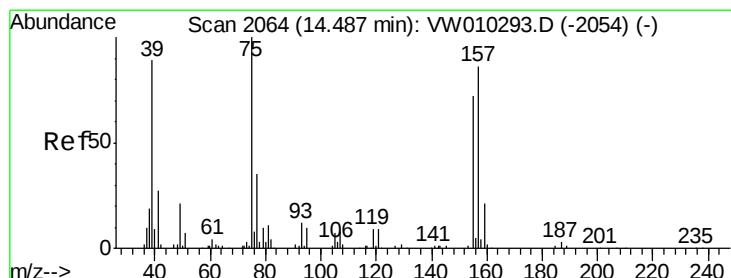
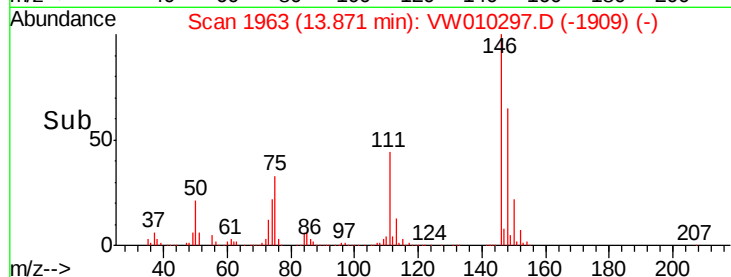
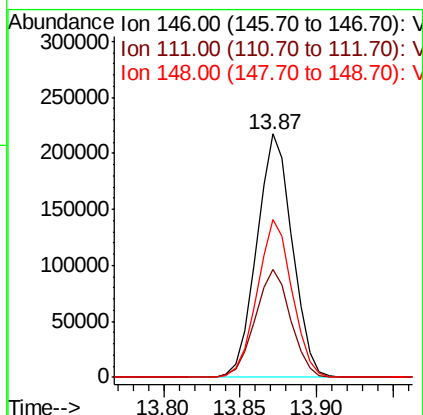
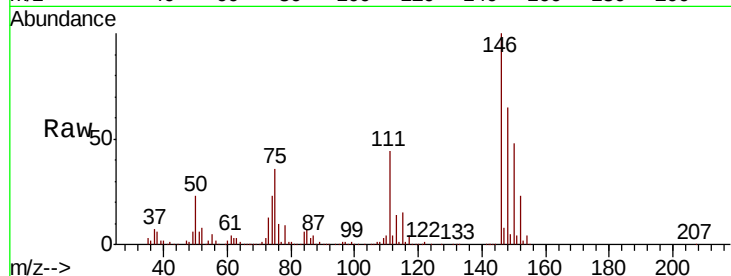




#65
 1,2-Dichlorobenzene
 Concen: 24.183 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW010297.D
 Acq: 07 May 2019 13:39

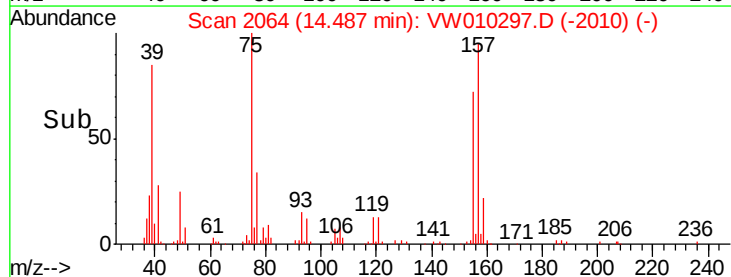
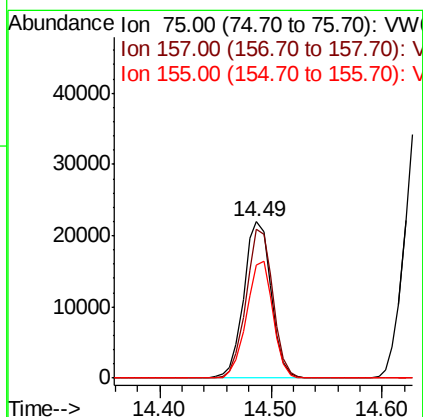
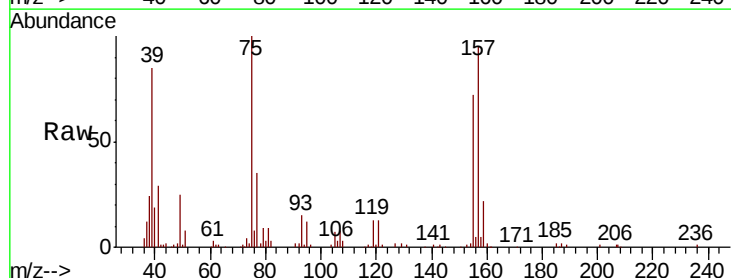
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02510

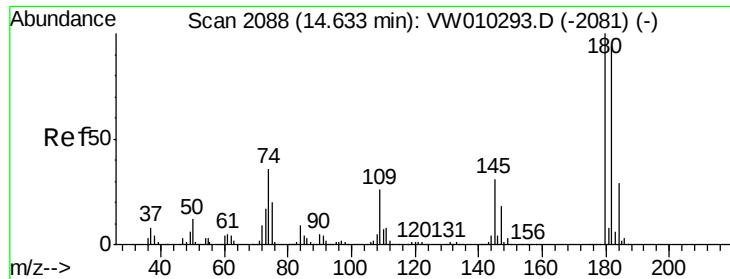
Tgt Ion: 146 Resp: 351283
 Ion Ratio Lower Upper
 146 100
 111 44.2 36.8 55.2
 148 64.7 52.9 79.3



#66
 1,2-Dibromo-3-chloropropane
 Concen: 21.578 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VW010297.D
 Acq: 07 May 2019 13:39

Tgt Ion: 75 Resp: 37351
 Ion Ratio Lower Upper
 75 100
 157 95.4 68.6 103.0
 155 72.3 57.3 85.9

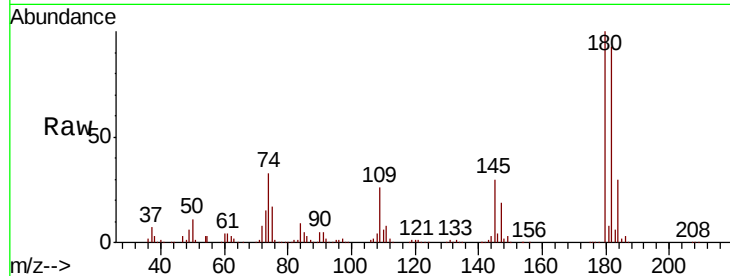




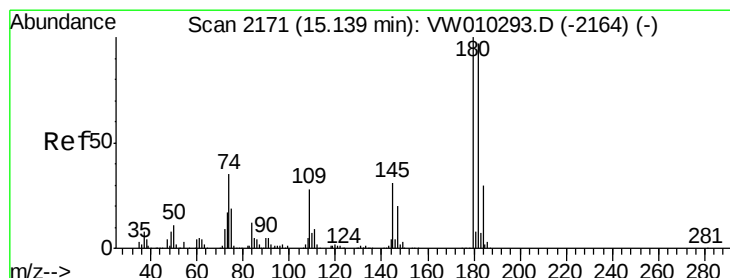
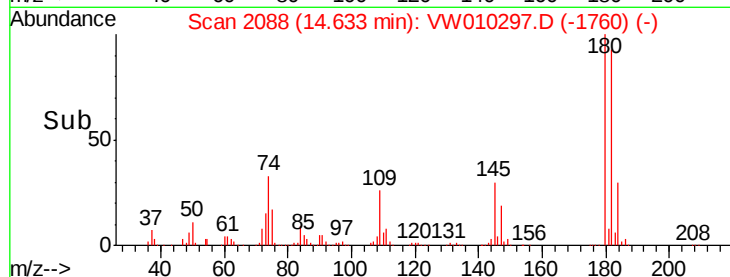
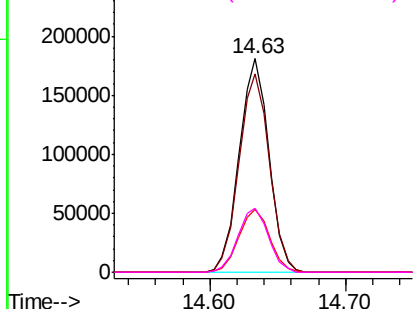
#67
 1,3,5-Trichlorobenzene
 Concen: 24.386 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. 0.00 min
 Lab File: VW010297.D
 Acq: 07 May 2019 13:39

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02510

Tgt Ion:180 Resp: 275773
 Ion Ratio Lower Upper
 180 100
 182 94.7 75.4 113.0
 184 30.3 23.8 35.8
 145 30.9 24.6 36.8

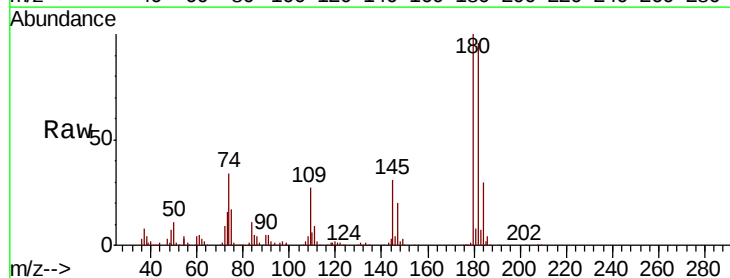


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

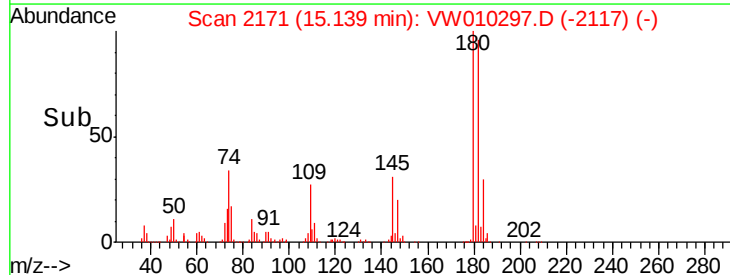
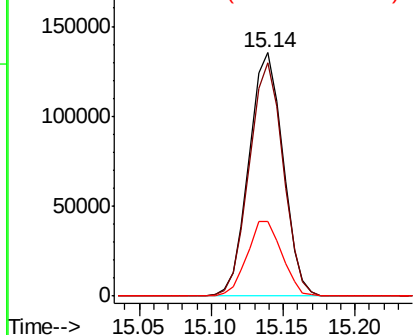


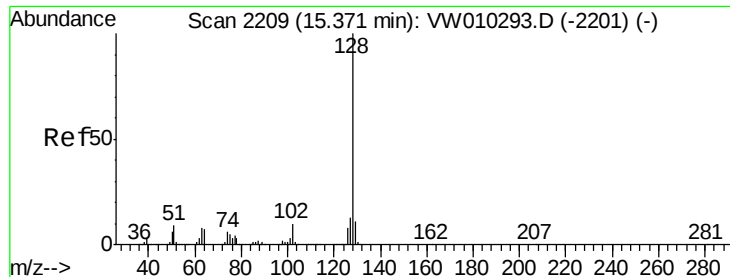
#68
 1,2,4-trichlorobenzene
 Concen: 24.785 ug/L
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.00 min
 Lab File: VW010297.D
 Acq: 07 May 2019 13:39

Tgt Ion:180 Resp: 221823
 Ion Ratio Lower Upper
 180 100
 182 95.3 77.0 115.6
 145 31.5 25.0 37.4



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: 25.352 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW010297.D

Acq: 07 May 2019 13:39

Instrument :

MSVOA_W

ClientSampleId :

VSTD02510

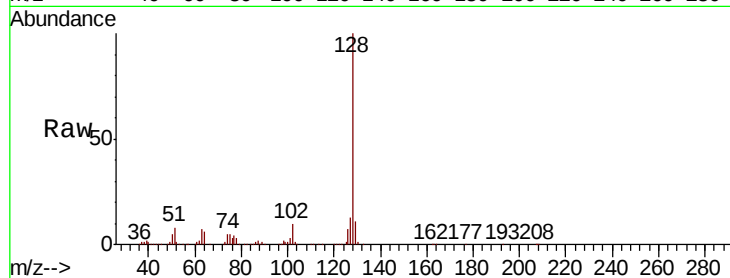
Tgt Ion:128 Resp: 511695

Ion Ratio Lower Upper

128 100

129 10.8 8.7 13.1

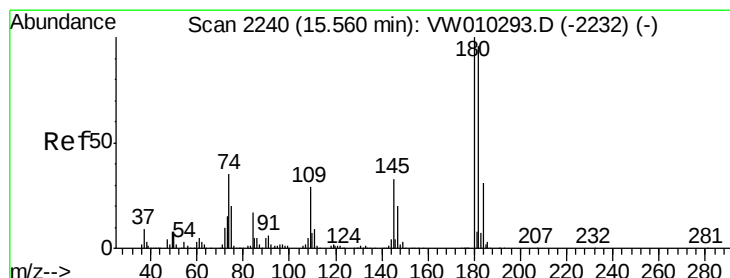
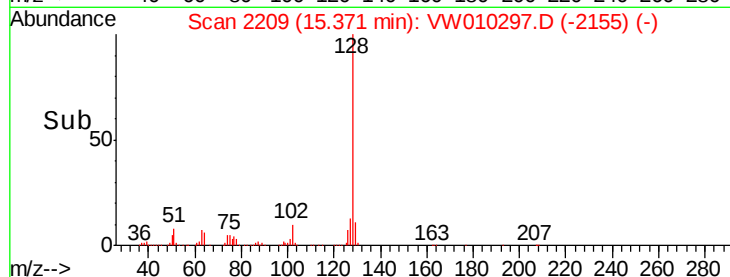
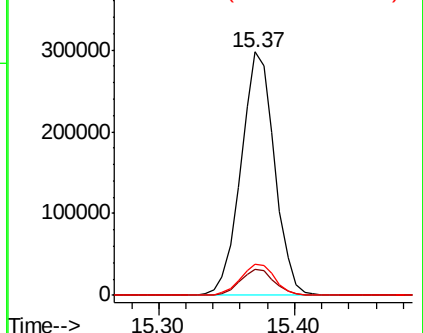
127 13.2 10.8 16.2



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: 24.566 ug/L

RT: 15.57 min Scan# 2241

Delta R.T. 0.01 min

Lab File: VW010297.D

Acq: 07 May 2019 13:39

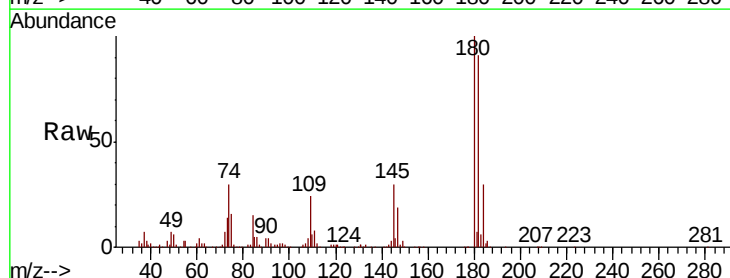
Tgt Ion:180 Resp: 211197

Ion Ratio Lower Upper

180 100

182 95.8 75.8 113.6

145 33.9 26.7 40.1



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

