

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW011620\
 Data File : VW014677.D
 Acq On : 16 Jan 2020 18:23
 Operator : SY/VA
 Sample : VSTDCCC025EC
 Misc : 5.03G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02517

Quant Time: Jan 17 01:22:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jan 17 01:19:13 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	1109113	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	988117	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	477855	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	331799	21.22	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	84.88%
7) Chloroethane-d5	2.89	69	283696	24.63	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	98.52%
10) 1,1-Dichloroethene-d2	4.03	63	679147	23.75	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	95.00%
20) 2-Butanone-d5	7.07	46	185451	49.85	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	99.70%
24) Chloroform-d	7.65	84	648962	25.43	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	101.72%
26) 1,2-Dichloroethane-d4	8.31	65	319200	24.11	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	96.44%
29) Benzene-d6	8.27	84	1379357	26.25	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	105.00%
33) 1,2-Dichloropropane-d6	9.27	67	422013	26.71	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	106.84%
37) Toluene-d8	10.32	98	1269255	26.65	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	106.60%
38) trans-1,3-Dichloropropene-	10.57	79	166931	25.58	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	102.32%
39) 2-Hexanone-d5	10.92	63	152629	56.50	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	113.00%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	307236	25.90	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	103.60%
61) 1,2-Dichlorobenzene-d4	13.85	152	429431	27.27	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	109.08%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	2.01	85	217273	21.898	ug/L	97
3) Chloromethane	2.21	50	238096	21.226	ug/L	97
5) Vinyl chloride	2.36	62	385819	24.174	ug/L	99
6) Bromomethane	2.78	94	228859	24.556	ug/L	100
8) Chloroethane	2.92	64	223151	25.003	ug/L	100
9) Trichlorofluoromethane	3.25	101	193253	22.892	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	353528	24.394	ug/L	100
12) 1,1-Dichloroethene	4.04	96	359548	25.335	ug/L	97
13) Acetone	4.12	43	154347	29.964	ug/L	97
14) Carbon disulfide	4.39	76	1018343	23.242	ug/L	100
15) Methyl Acetate	4.67	43	157319	22.633	ug/L	98
16) Methylene chloride	4.92	84	382735	21.162	ug/L	100
17) Methyl tert-butyl Ether	5.42	73	481616	26.366	ug/L	99
18) trans-1,2-Dichloroethene	5.42	96	368582	24.655	ug/L	99
19) 1,1-Dichloroethane	6.21	63	659283	24.397	ug/L	99
21) 2-Butanone	7.17	43	223744	40.484	ug/L	100
22) cis-1,2-Dichloroethene	7.17	96	398958	25.354	ug/L	97

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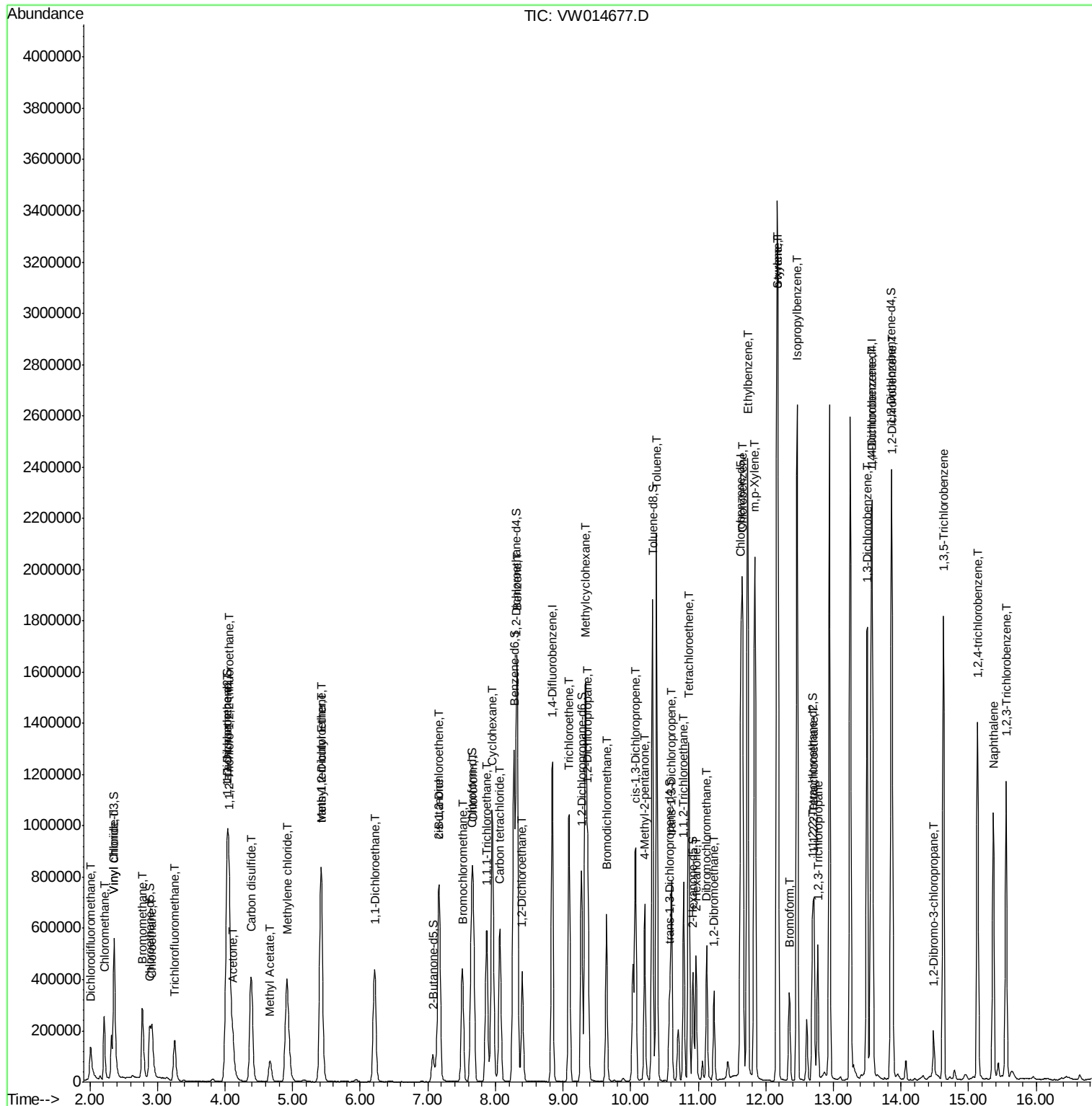
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	167498	24.589	uq/L	98
25) Chloroform	7.67	83	628604	24.320	uq/L	100
27) 1,2-Dichloroethane	8.40	62	384910	22.940	uq/L	100
30) Cyclohexane	7.95	56	652534	25.816	uq/L	100
31) 1,1,1-Trichloroethane	7.87	97	491500	24.248	uq/L	99
32) Carbon tetrachloride	8.07	117	457438	24.222	uq/L	99
34) Benzene	8.32	78	1504270	25.297	uq/L	100
35) Trichloroethene	9.09	95	379958	24.758	uq/L	97
36) Methylcyclohexane	9.33	83	681290	25.304	uq/L	98
40) 1,2-Dichloropropane	9.37	63	373455	24.813	uq/L	100
41) Bromodichloromethane	9.64	83	439465	24.275	uq/L	99
42) cis-1,3-Dichloropropene	10.07	75	571353	25.413	uq/L	95
43) 4-Methyl-2-pentanone	10.21	43	455028	47.096	uq/L	99
44) Toluene	10.38	91	1595563	25.677	uq/L	97
45) trans-1,3-Dichloropropene	10.60	75	438116	24.371	uq/L	97
46) 1,1,2-Trichloroethane	10.79	97	258572	24.255	uq/L	99
47) Tetrachloroethene	10.86	164	315116	24.454	uq/L	93
49) 2-Hexanone	10.96	43	319393	48.410	uq/L	99
50) Dibromochloromethane	11.13	129	295175	24.385	uq/L	94
51) 1,2-Dibromoethane	11.23	107	245710	24.417	uq/L	95
52) Chlorobenzene	11.65	112	1001443	25.494	uq/L	97
53) Ethylbenzene	11.73	91	1779808	26.050	uq/L	99
54) m,p-Xylene	11.84	106	679952	26.298	uq/L	98
55) o-xylene	12.16	106	642431	26.306	uq/L	100
56) Styrene	12.18	104	1093197	26.595	uq/L	99
57) Isopropylbenzene	12.46	105	1734268	26.697	uq/L	99
58) 1,1,1,2,2-Tetrachloroethane	12.71	83	309643	23.923	uq/L	97
59) 1,2,3-Trichloropropane	12.77	75	224944	23.199	uq/L	98
62) Bromoform	12.35	173	168169	23.551	uq/L	98
63) 1,3-Dichlorobenzene	13.50	146	783741	25.906	uq/L	98
64) 1,4-Dichlorobenzene	13.58	146	762787	25.005	uq/L	99
65) 1,2-Dichlorobenzene	13.87	146	703280	25.931	uq/L	95
66) 1,2-Dibromo-3-chloropropan	14.48	75	46499	23.153	uq/L	89
67) 1,3,5-Trichlorobenzene	14.63	180	607960	27.128	uq/L	99
68) 1,2,4-trichlorobenzene	15.13	180	489121	29.115	uq/L	99
69) Naphthalene	15.36	128	911369	31.423	uq/L	99
70) 1,2,3-Trichlorobenzene	15.55	180	434313	28.529	uq/L	99

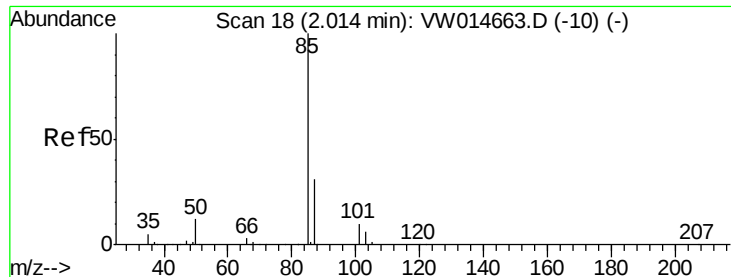
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#2

Dichlorodifluoromethane

Concen: 21.898 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW014677.D

Acq: 16 Jan 2020 18:23

Instrument :

MSVOA_W

ClientSampleId :

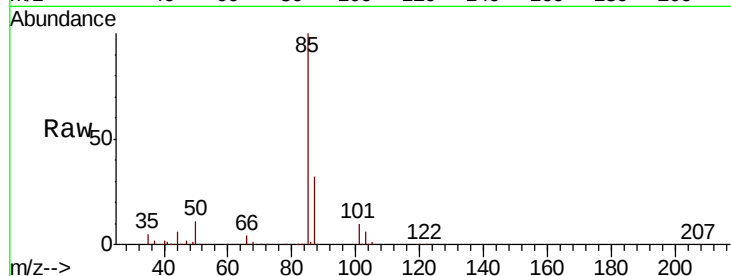
VSTD02517

Tot Ion: 85 Resp: 217273

Ion Ratio Lower Upper

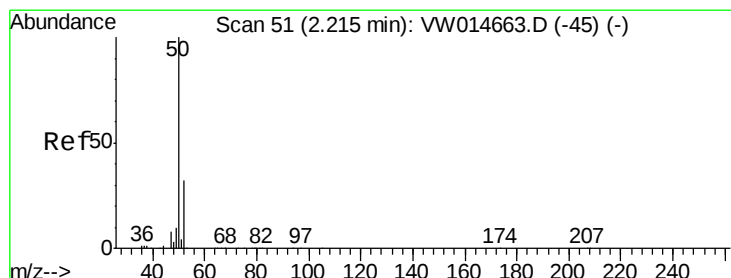
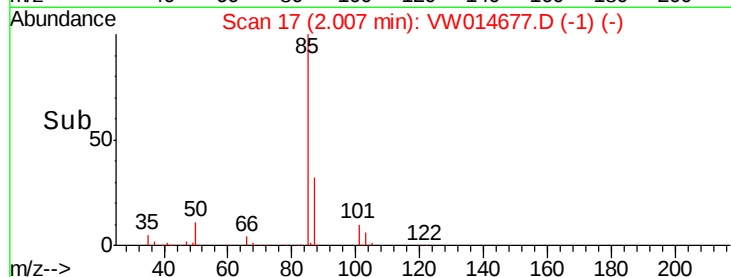
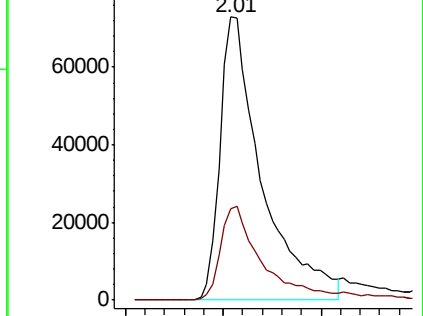
85 100

87 32.3 21.5 39.9



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 21.226 ug/L

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW014677.D

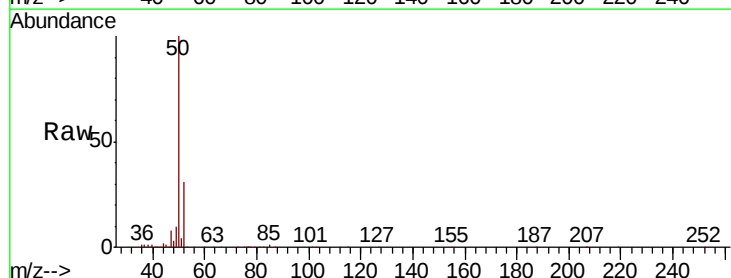
Acq: 16 Jan 2020 18:23

Tgt Ion: 50 Resp: 238096

Ion Ratio Lower Upper

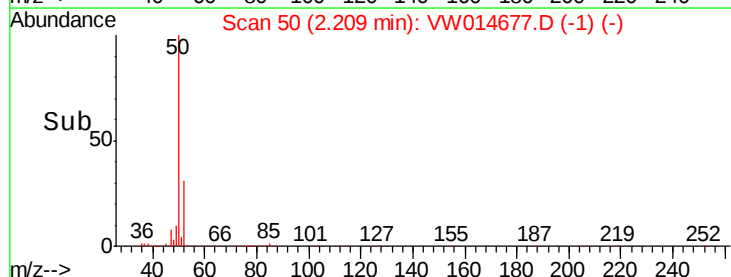
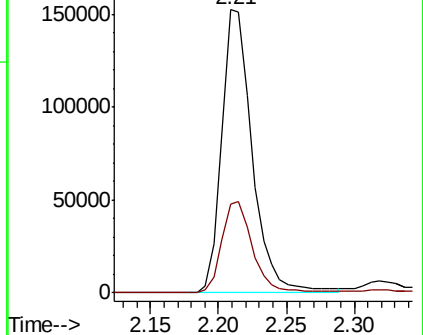
50 100

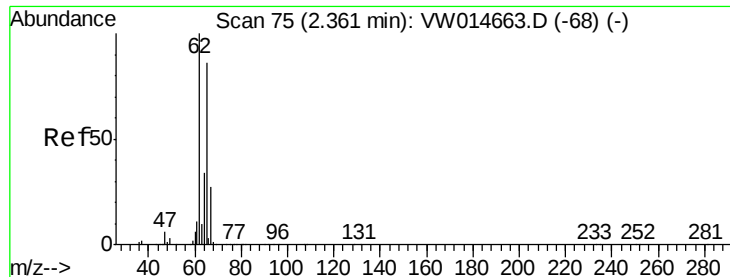
52 31.4 23.0 42.8



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 24.174 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.00 min

Lab File: VW014677.D

Acq: 16 Jan 2020 18:23

Instrument :

MSVOA_W

ClientSampleId :

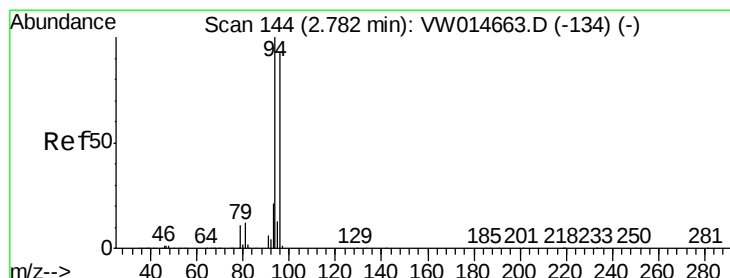
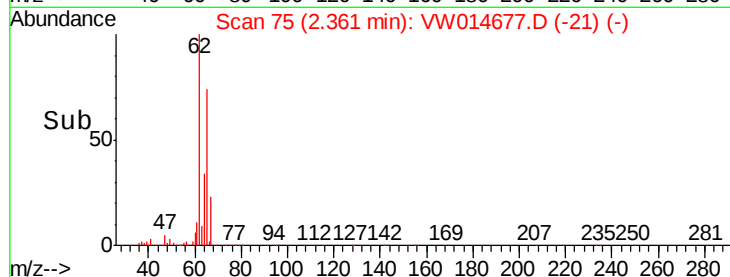
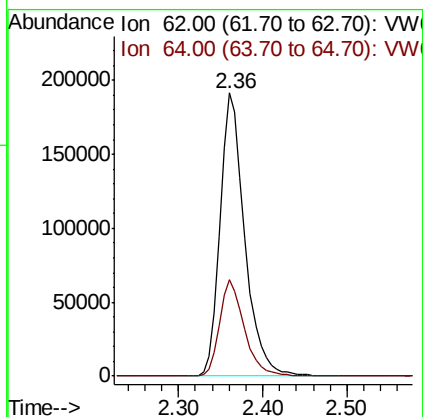
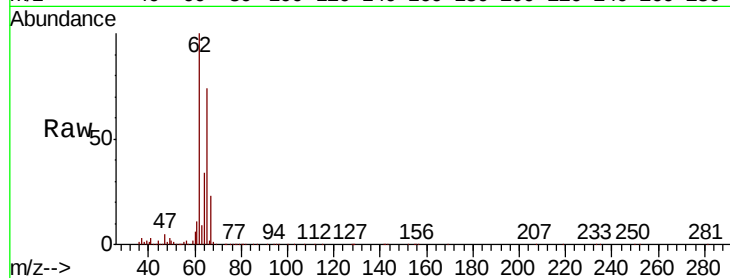
VSTD02517

Tot Ion: 62 Resp: 385819

Ion Ratio Lower Upper

62 100

64 34.2 24.1 44.8



#6

Bromomethane

Concen: 24.556 ug/L

RT: 2.78 min Scan# 143

Delta R.T. -0.01 min

Lab File: VW014677.D

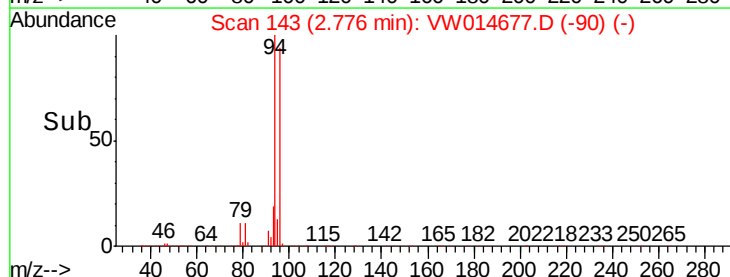
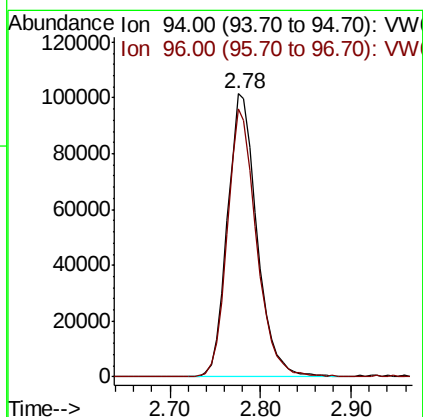
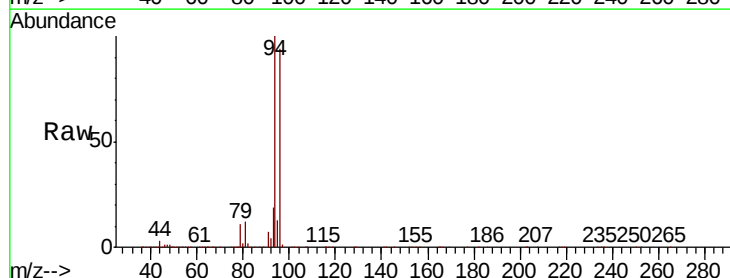
Acq: 16 Jan 2020 18:23

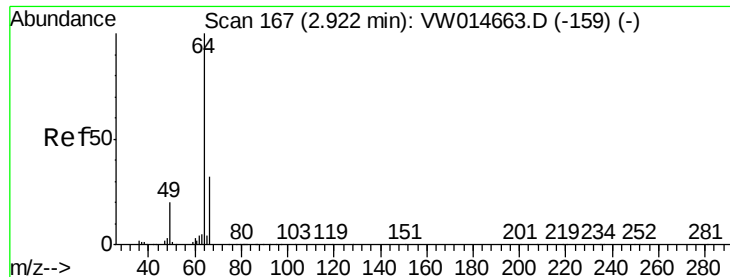
Tgt Ion: 94 Resp: 228859

Ion Ratio Lower Upper

94 100

96 93.6 9.4 178.8





#8

Chloroethane

Concen: 25.003 ug/L

RT: 2.92 min Scan# 167

Delta R.T. -0.00 min

Lab File: VW014677.D

Acq: 16 Jan 2020 18:23

Instrument :

MSVOA_W

ClientSampleId :

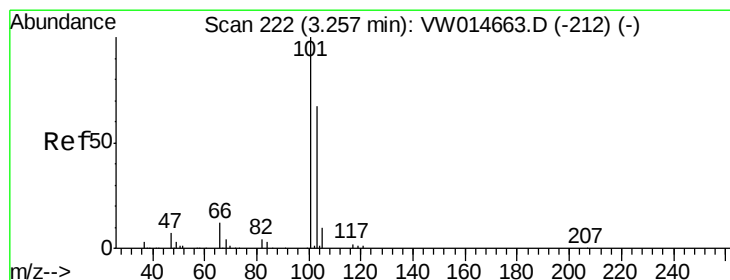
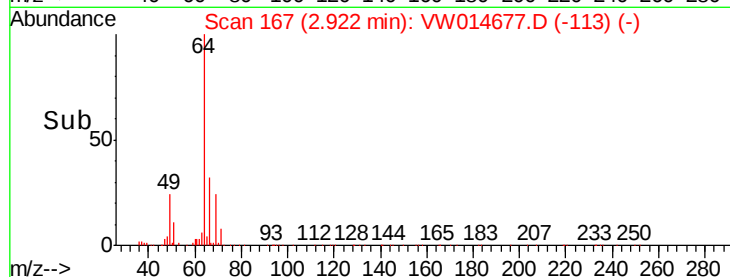
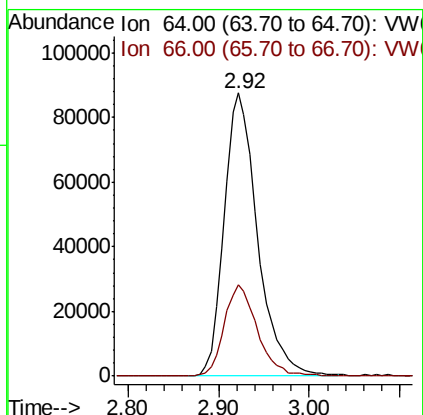
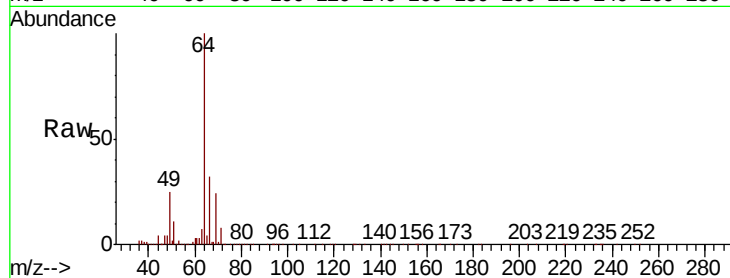
VSTD02517

Tot Ion: 64 Resp: 223151

Ion Ratio Lower Upper

64 100

66 32.3 22.5 41.7



#9

Trichlorofluoromethane

Concen: 22.892 ug/L

RT: 3.25 min Scan# 221

Delta R.T. -0.01 min

Lab File: VW014677.D

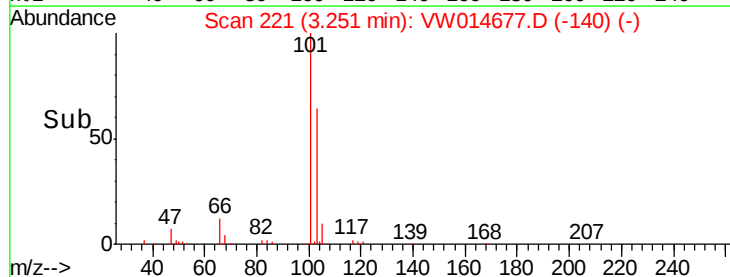
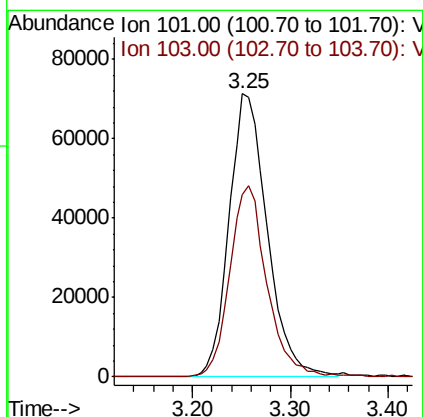
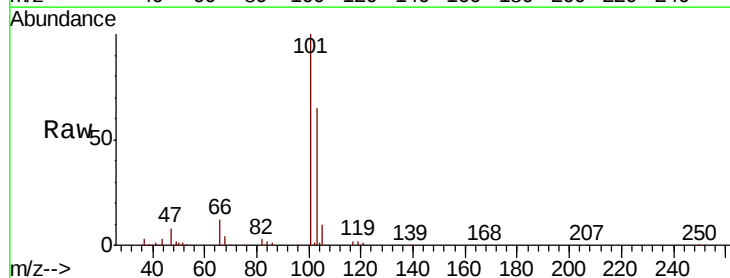
Acq: 16 Jan 2020 18:23

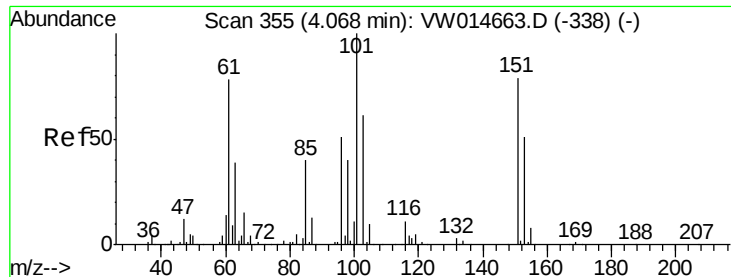
Tgt Ion: 101 Resp: 193253

Ion Ratio Lower Upper

101 100

103 65.4 45.5 84.5





#11

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

Concen: 24.394 ug/L

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW014677.D

Acq: 16 Jan 2020 18:23

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ClientSampleId :

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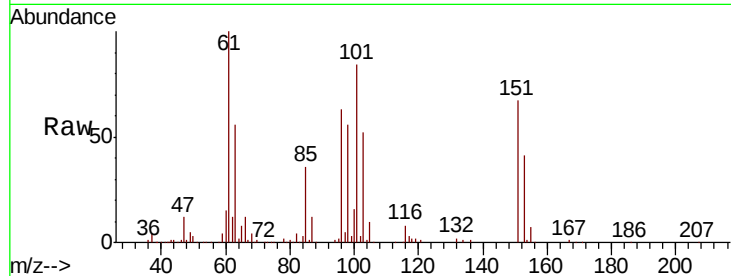
Tot Ion:101 Resp: 353528

Ion Ratio Lower Upper

101 100

85 41.5 33.3 49.9

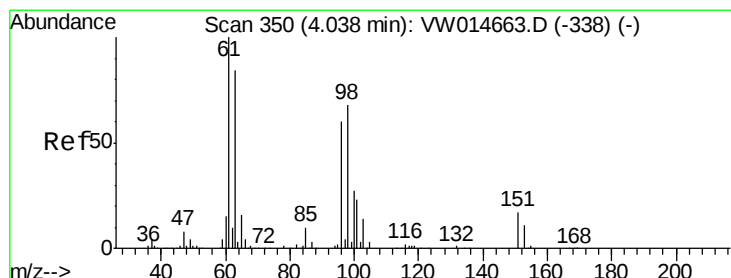
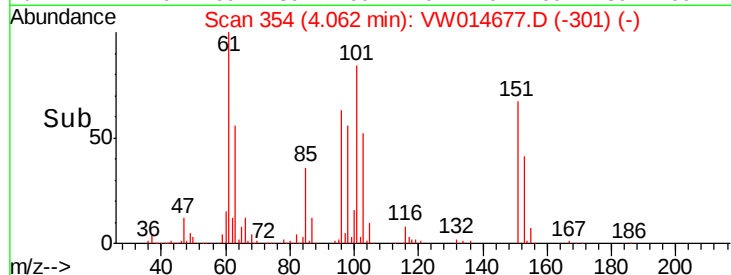
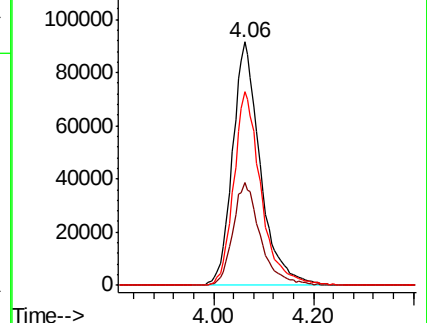
151 77.6 62.5 93.7



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: 25.335 ug/L

RT: 4.04 min Scan# 351

Delta R.T. 0.01 min

Lab File: VW014677.D

Acq: 16 Jan 2020 18:23

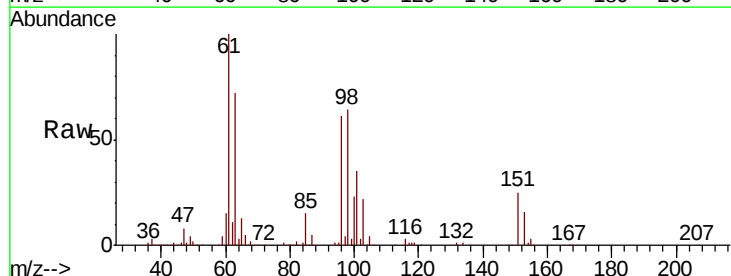
Tgt Ion: 96 Resp: 359548

Ion Ratio Lower Upper

96 100

61 164.5 114.2 212.0

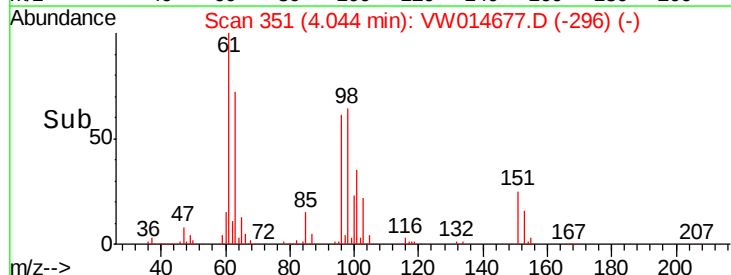
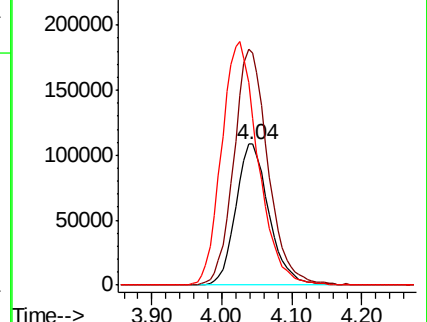
63 118.4 78.6 146.0

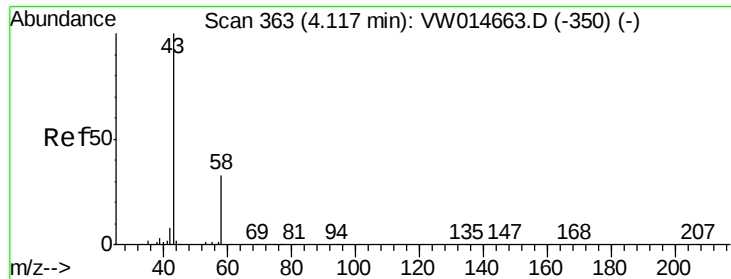


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 29.964 ug/L

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

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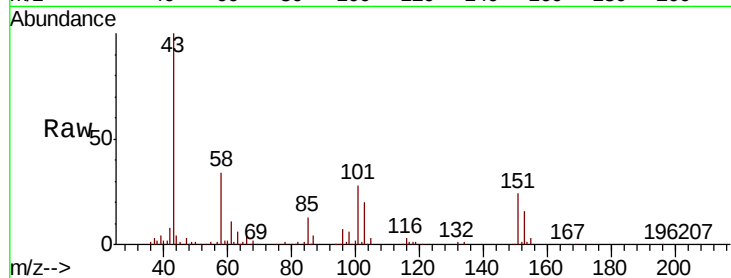
VSTD02517

Tot Ion: 43 Resp: 154347

Ion Ratio Lower Upper

43 100

58 33.4 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.12

60000

50000

40000

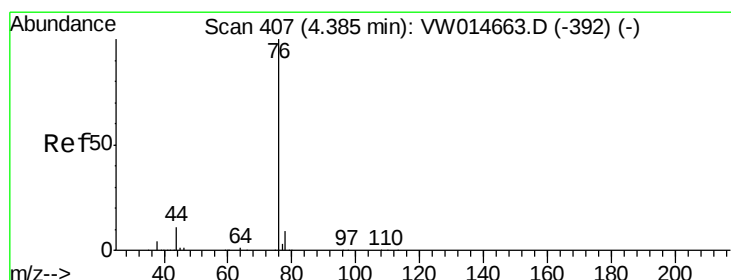
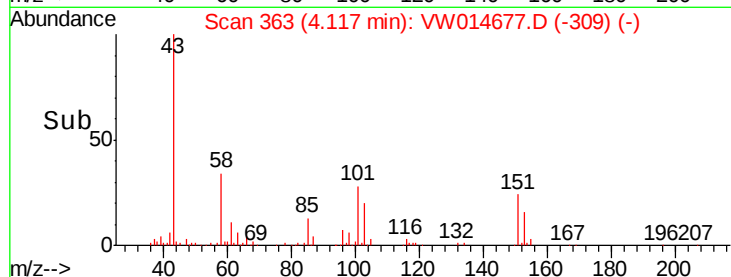
30000

20000

10000

0

Time-->



#14

Carbon disulfide

Concen: 23.242 ug/L

RT: 4.39 min Scan# 407

Delta R.T. -0.00 min

Lab File: VW014677.D

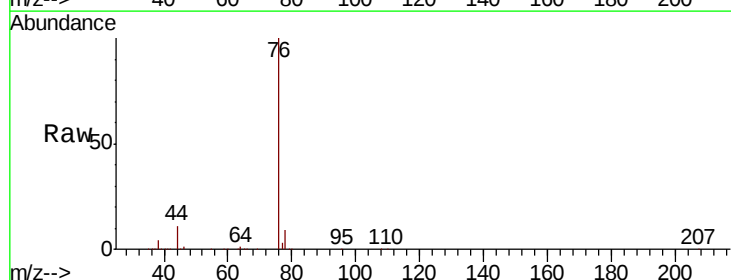
Acq: 16 Jan 2020 18:23

Tgt Ion: 76 Resp: 1018343

Ion Ratio Lower Upper

76 100

78 8.7 6.9 10.3



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

4.39

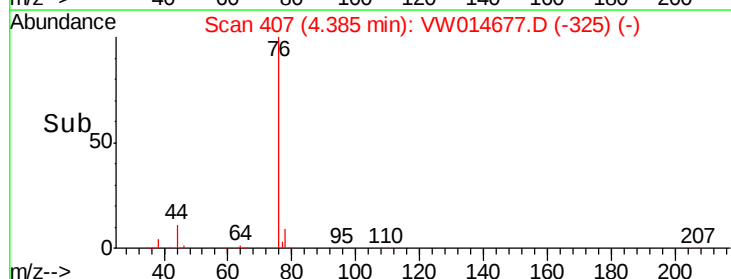
300000

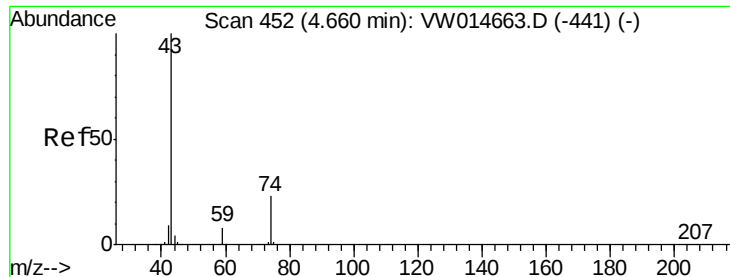
200000

100000

0

Time-->

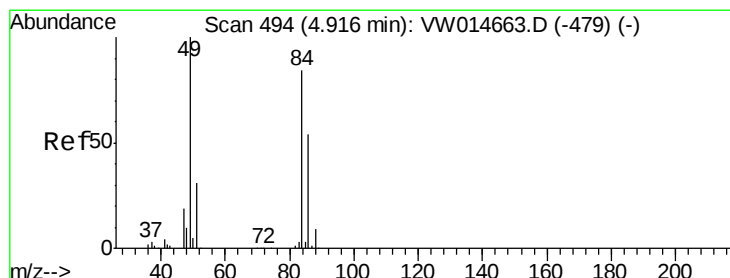
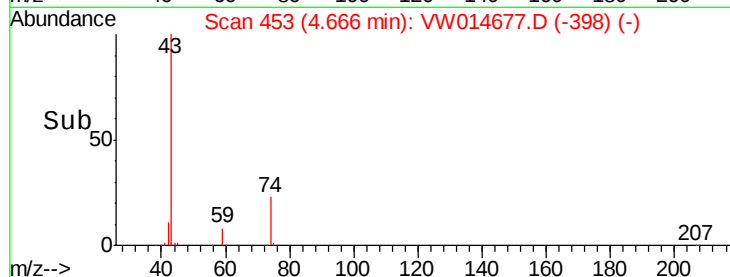
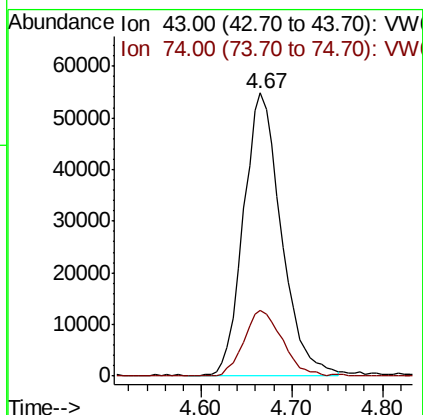
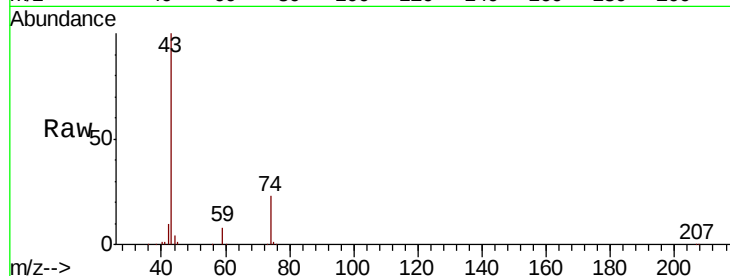




#15
Methvl Acetate
Concen: 22.633 ug/L
RT: 4.67 min Scan# 453
Delta R.T. 0.01 min
Lab File: VW014677.D
Acq: 16 Jan 2020 18:23

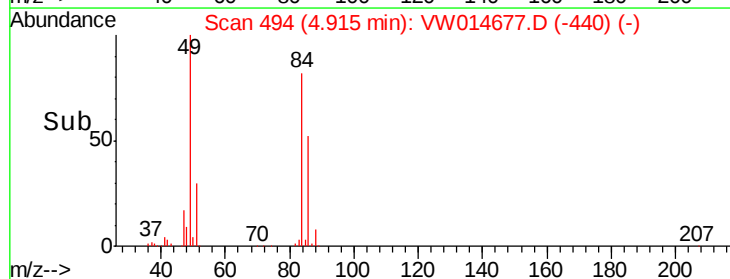
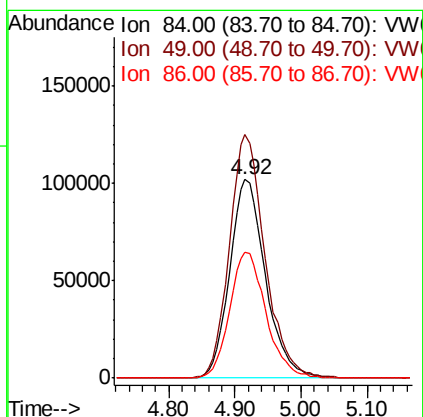
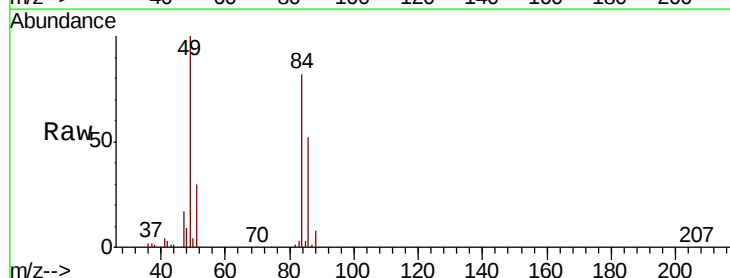
Instrument :
MSVOA_W
ClientSampleId :
VSTD02517

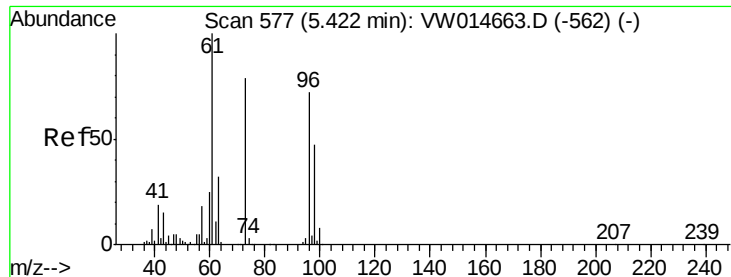
Tot Ion: 43 Resp: 157319
Ion Ratio Lower Upper
43 100
74 23.8 18.3 27.5



#16
Methylene chloride
Concen: 21.162 ug/L
RT: 4.92 min Scan# 494
Delta R.T. -0.00 min
Lab File: VW014677.D
Acq: 16 Jan 2020 18:23

Tgt Ion: 84 Resp: 382735
Ion Ratio Lower Upper
84 100
49 122.5 85.8 159.4
86 63.2 44.5 82.7

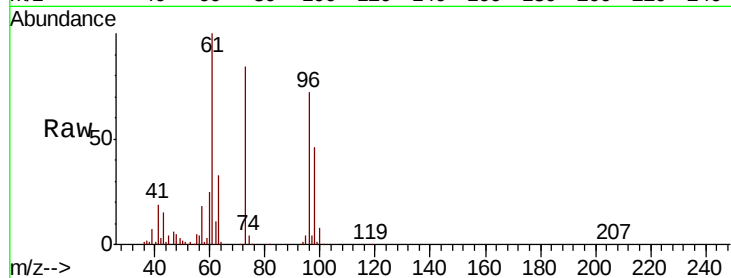




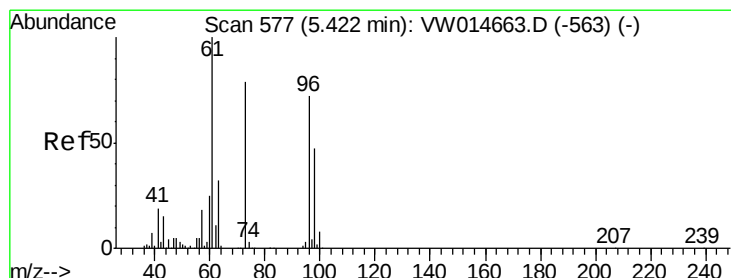
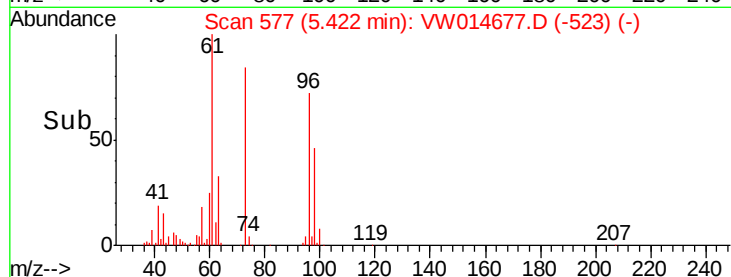
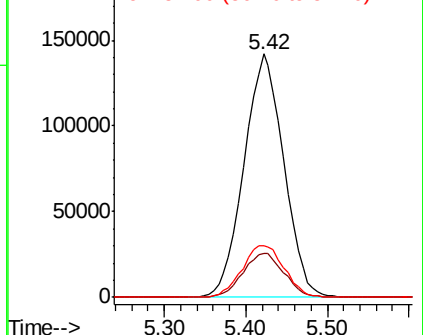
#17
Methvl tert-butvl Ether
Concen: 26.366 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW014677.D
Acq: 16 Jan 2020 18:23

Instrument :
MSVOA_W
ClientSampleId :
VSTD02517

Tot Ion: 73 Resp: 481616
Ion Ratio Lower Upper
73 100
43 18.6 15.7 23.5
57 22.6 18.3 27.5

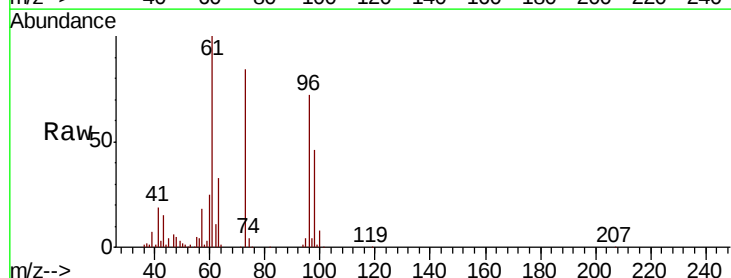


Abundance Ion 73.00 (72.70 to 73.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 57.00 (56.70 to 57.70): VW

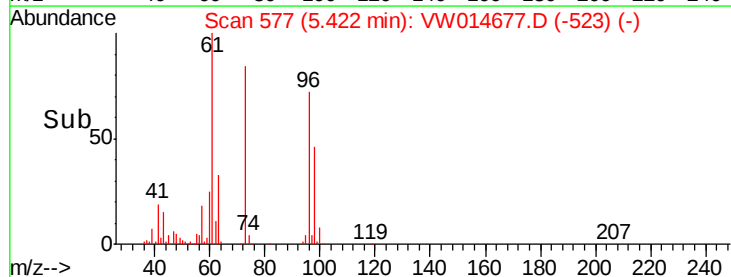
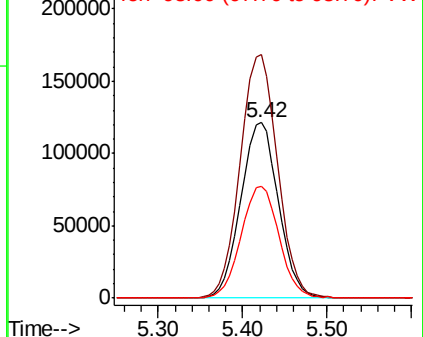


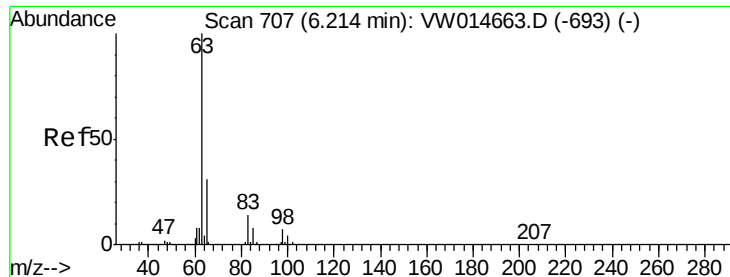
#18
trans-1,2-Dichloroethene
Concen: 24.655 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW014677.D
Acq: 16 Jan 2020 18:23

Tgt Ion: 96 Resp: 368582
Ion Ratio Lower Upper
96 100
61 138.9 98.2 182.4
98 64.1 44.1 81.9



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

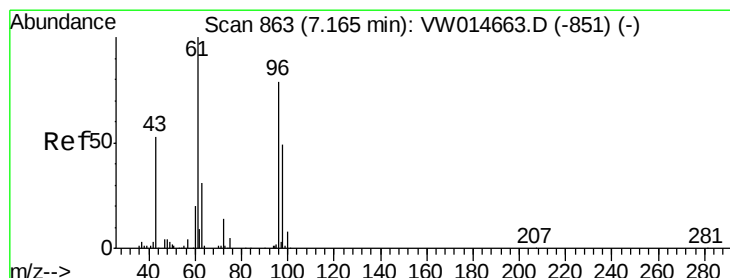
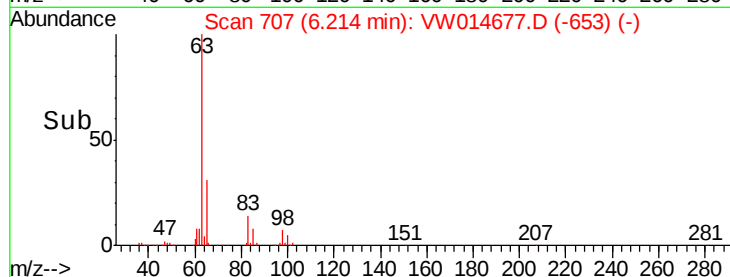
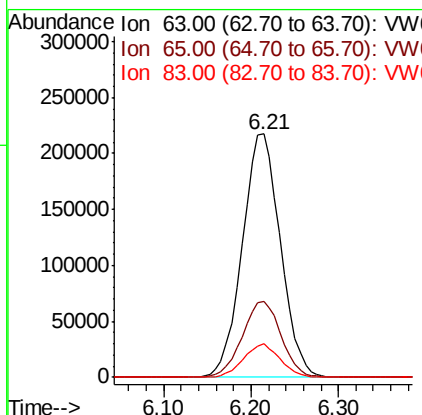
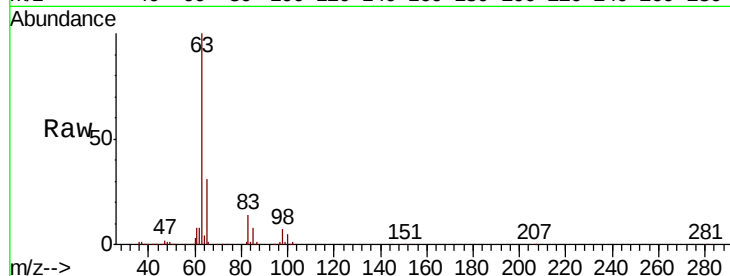




#19
 1,1-Dichloroethane
 Concen: 24.397 ug/L
 RT: 6.21 min Scan# 707
 Delta R.T. -0.00 min
 Lab File: VW014677.D
 Acq: 16 Jan 2020 18:23

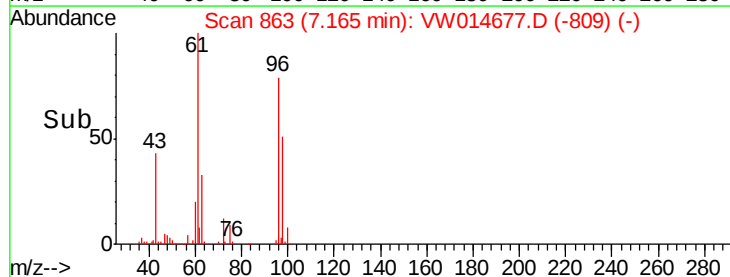
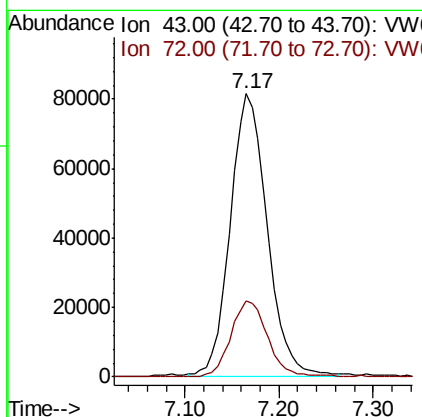
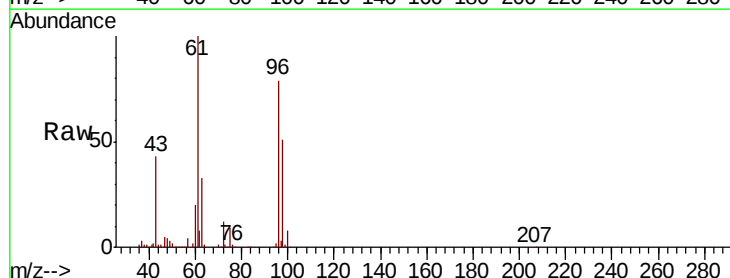
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02517

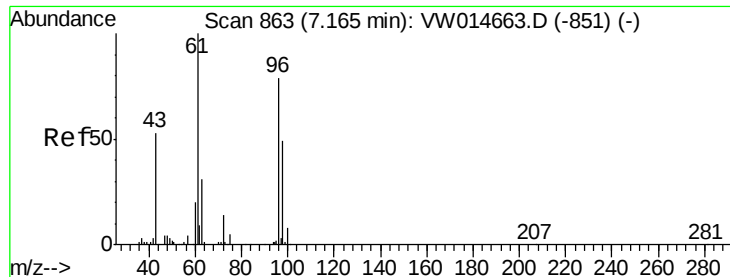
Tot Ion	63	Resp	659283
Ion Ratio	Lower	Upper	
63	100		
65	31.3	21.7	40.3
83	13.7	9.0	16.8



#21
 2-Butanone
 Concen: 40.484 ug/L
 RT: 7.17 min Scan# 863
 Delta R.T. -0.00 min
 Lab File: VW014677.D
 Acq: 16 Jan 2020 18:23

Tgt Ion	43	Resp	223744
Ion Ratio	Lower	Upper	
43	100		
72	26.6	13.3	39.8



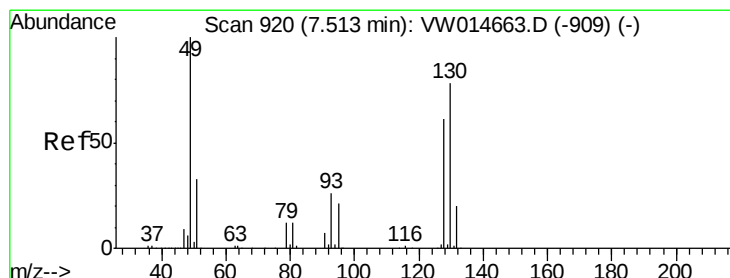
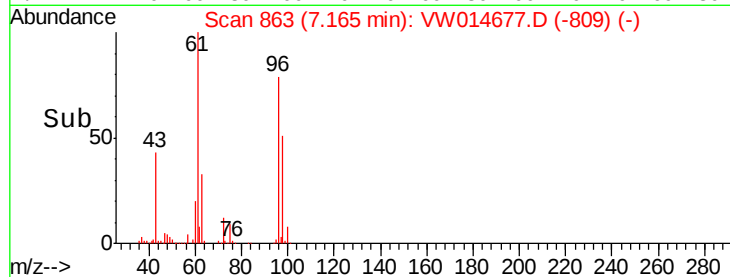
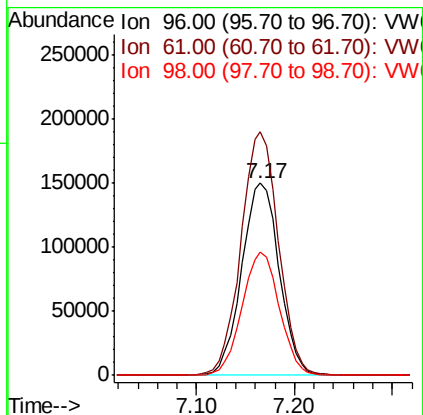
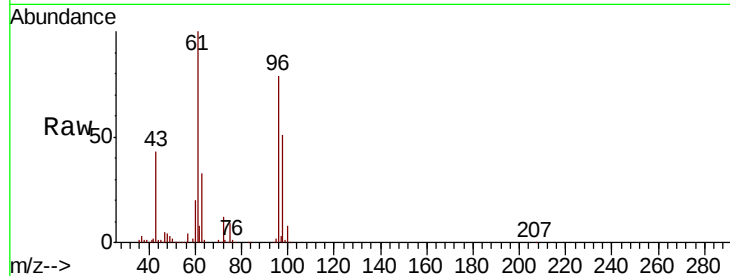


#22

cis-1,2-Dichloroethene
Concen: 25.354 ug/L
RT: 7.17 min Scan# 863
Delta R.T. -0.00 min
Lab File: VW014677.D
Acq: 16 Jan 2020 18:23

Instrument :
MSVOA_W
ClientSampleId :
VSTD02517

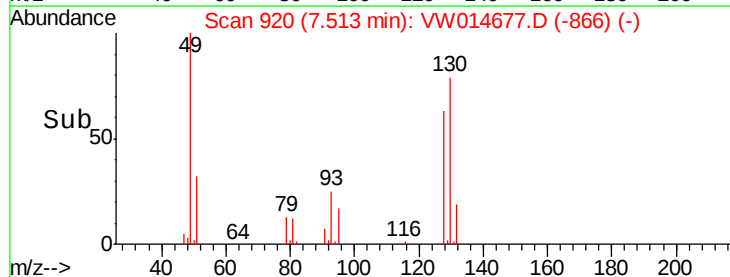
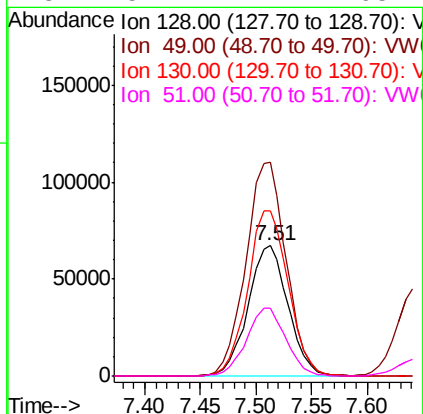
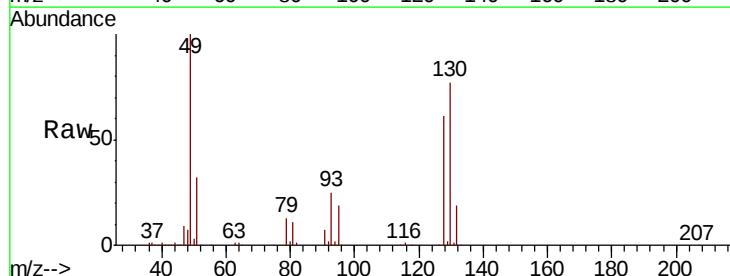
Tot Ion	Ratio	Lower	Upper
96	100		
61	126.8	91.5	169.9
98	64.4	46.9	87.1

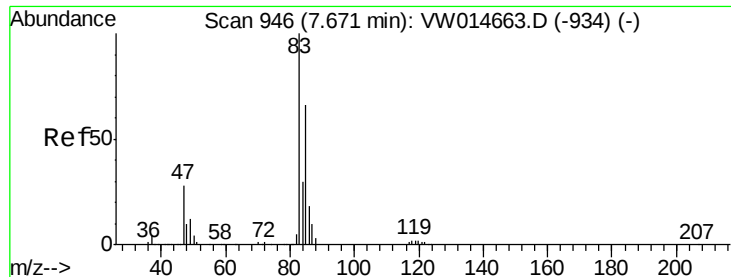


#23

Bromochloromethane
Concen: 24.589 ug/L
RT: 7.51 min Scan# 920
Delta R.T. -0.00 min
Lab File: VW014677.D
Acq: 16 Jan 2020 18:23

Tgt Ion	Ratio	Lower	Upper
128	100		
49	163.7	118.3	219.7
130	126.3	89.5	166.1
51	52.2	42.1	63.1





#25

Chloroform

Concen: 24.320 ug/L

RT: 7.67 min Scan# 946

Delta R.T. -0.00 min

Lab File: VW014677.D

Acq: 16 Jan 2020 18:23

Instrument :

MSVOA_W

ClientSampleId :

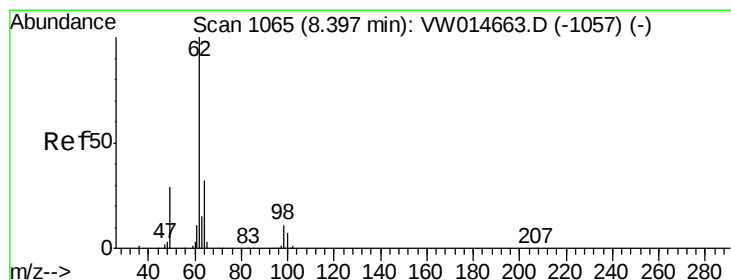
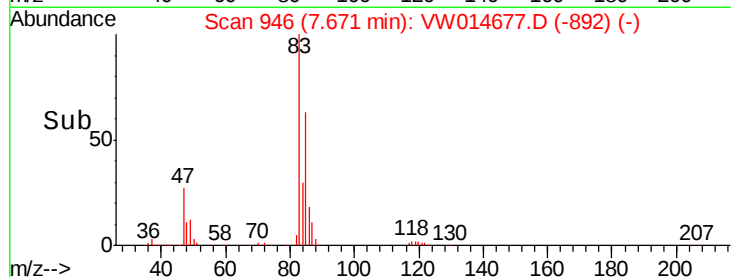
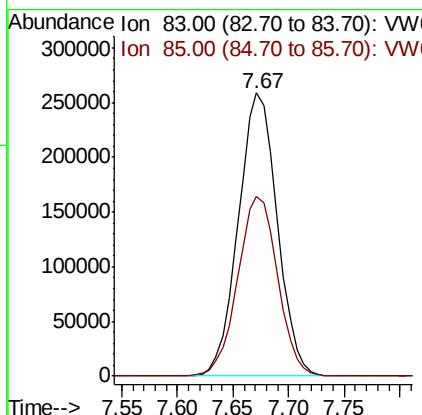
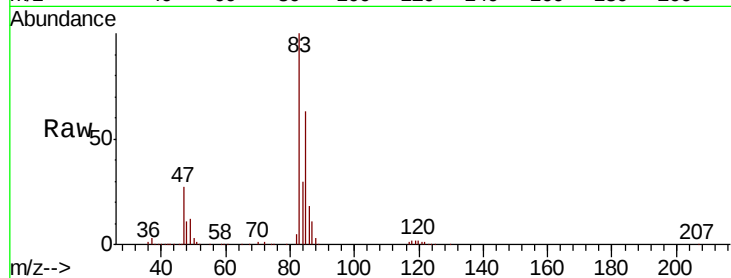
VSTD02517

Tot Ion: 83 Resp: 628604

Ion Ratio Lower Upper

83 100

85 65.2 45.8 85.2



#27

1,2-Dichloroethane

Concen: 22.940 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VW014677.D

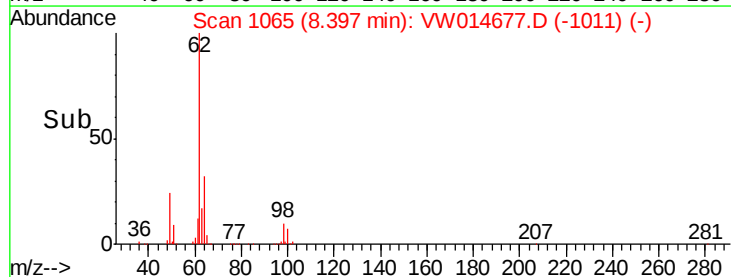
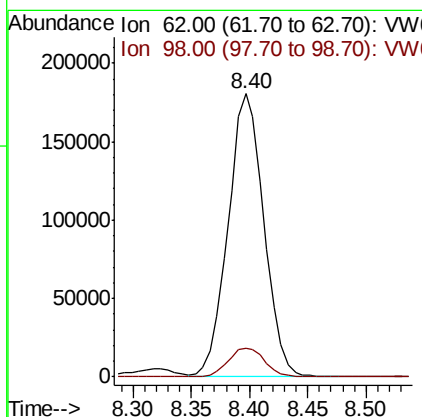
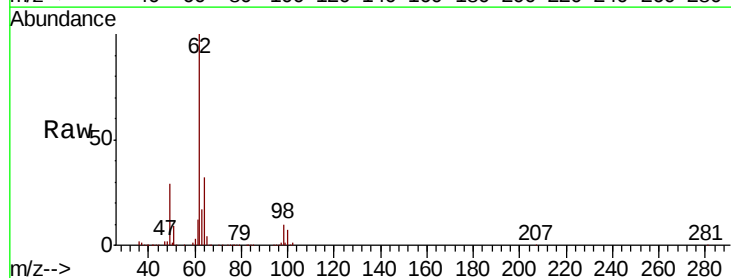
Acq: 16 Jan 2020 18:23

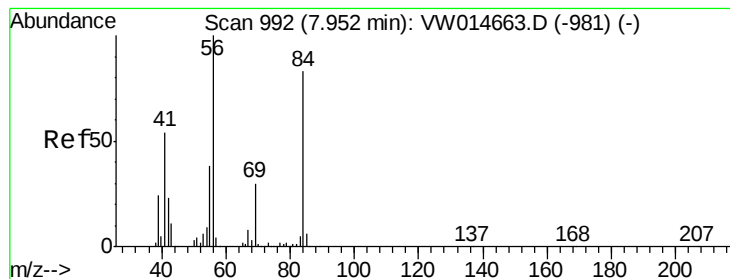
Tgt Ion: 62 Resp: 384910

Ion Ratio Lower Upper

62 100

98 10.2 8.3 12.5





#30

Cyclohexane

Concen: 25.816 ug/L

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW014677.D

Acq: 16 Jan 2020 18:23

Instrument :

MSVOA_W

ClientSampleId :

VSTD02517

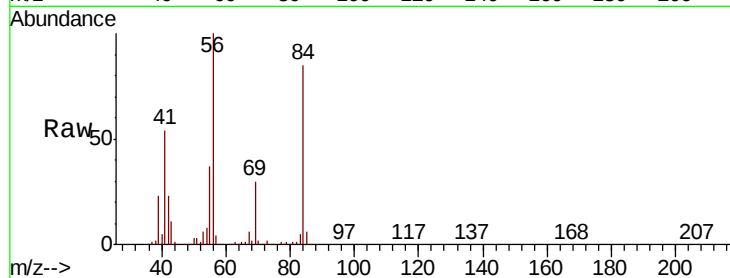
Tot Ion: 56 Resp: 652534

Ion Ratio Lower Upper

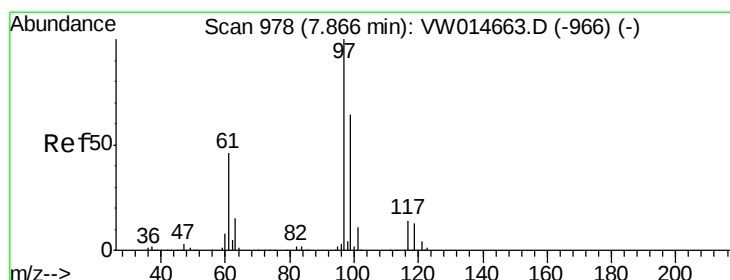
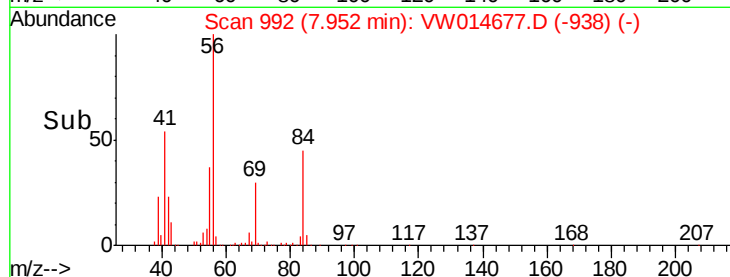
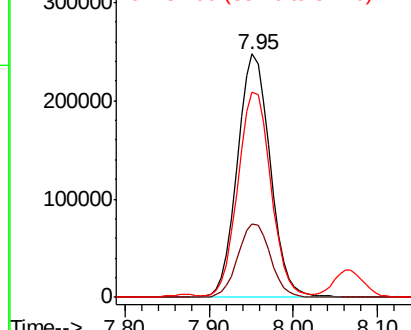
56 100

69 30.0 23.8 35.8

84 85.2 68.2 102.2



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: 24.248 ug/L

RT: 7.87 min Scan# 979

Delta R.T. 0.01 min

Lab File: VW014677.D

Acq: 16 Jan 2020 18:23

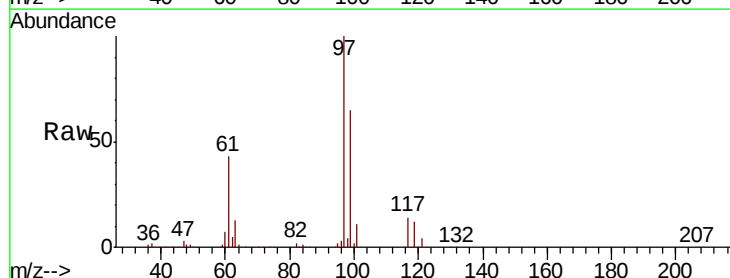
Tgt Ion: 97 Resp: 491500

Ion Ratio Lower Upper

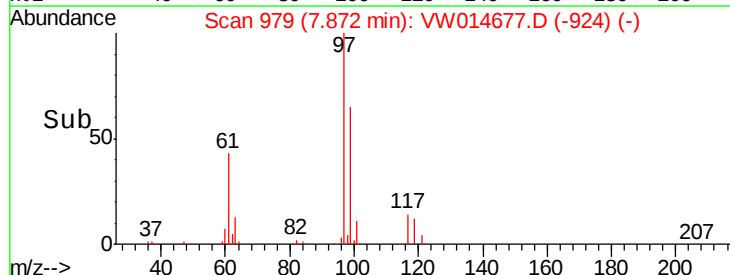
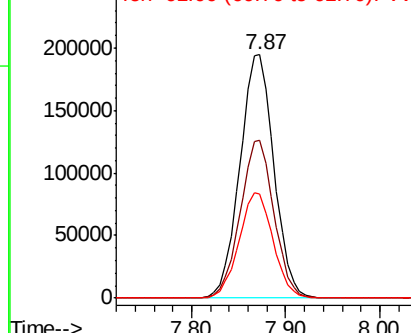
97 100

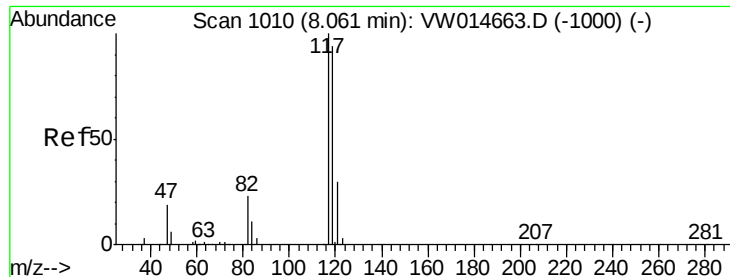
99 64.2 51.6 77.4

61 43.2 35.3 52.9



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: 24.222 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.01 min

Lab File: VW014677.D

Acq: 16 Jan 2020 18:23

Instrument :

MSVOA_W

ClientSampleId :

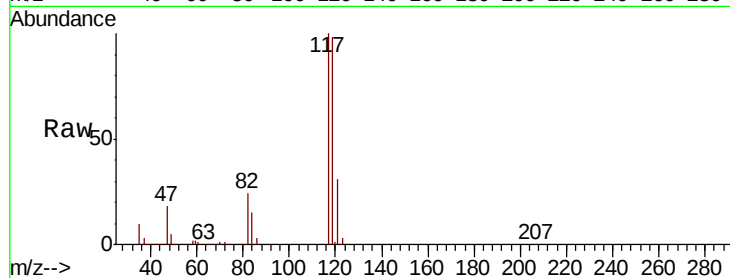
VSTD02517

Tot Ion:117 Resp: 457438

Ion Ratio Lower Upper

117 100

119 96.3 77.6 116.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

8.07

200000

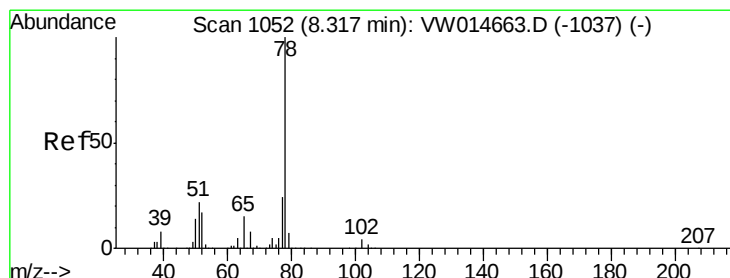
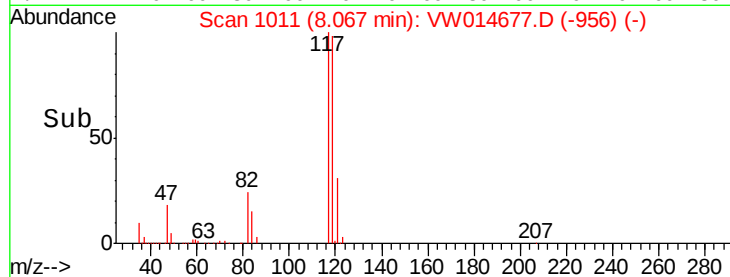
150000

100000

50000

0

Time-->



#34

Benzene

Concen: 25.297 ug/L

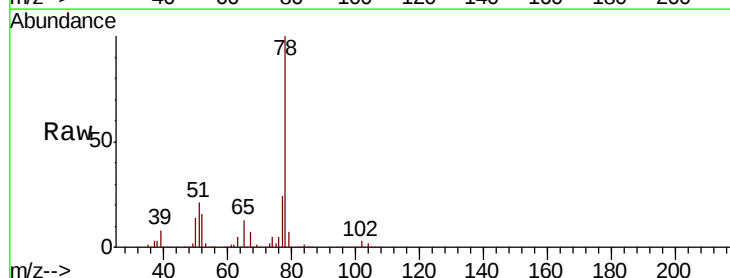
RT: 8.32 min Scan# 1052

Delta R.T. -0.00 min

Lab File: VW014677.D

Acq: 16 Jan 2020 18:23

Tgt Ion: 78 Resp: 1504270



Abundance Ion 78.00 (77.70 to 78.70): VW

8.32

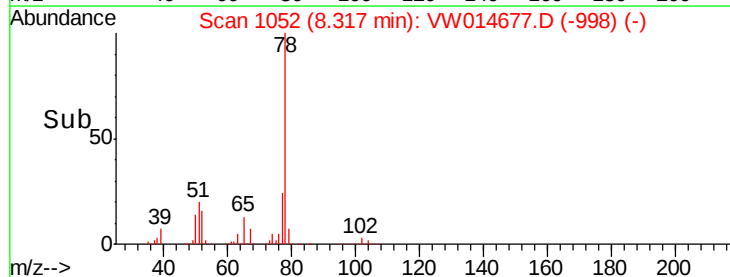
600000

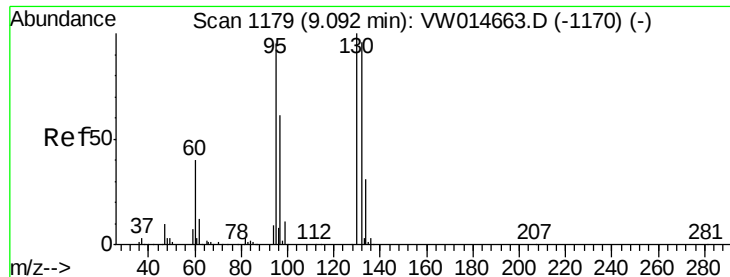
400000

200000

0

Time-->





#35

Trichloroethene

Concen: 24.758 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW014677.D

Acq: 16 Jan 2020 18:23

Instrument :

MSVOA_W

ClientSampleId :

VSTD02517

Tot Ion: 95 Resp: 379958

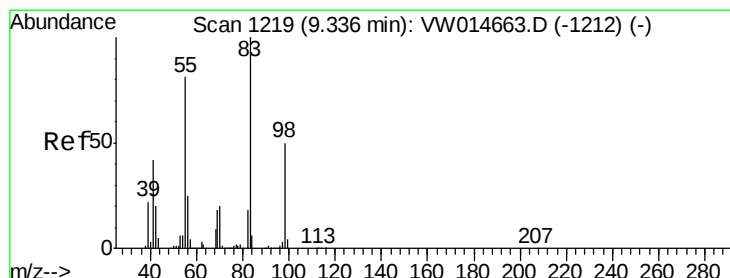
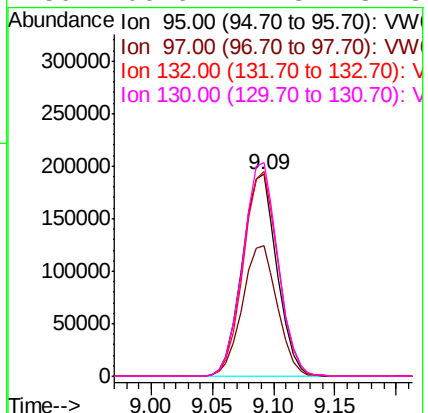
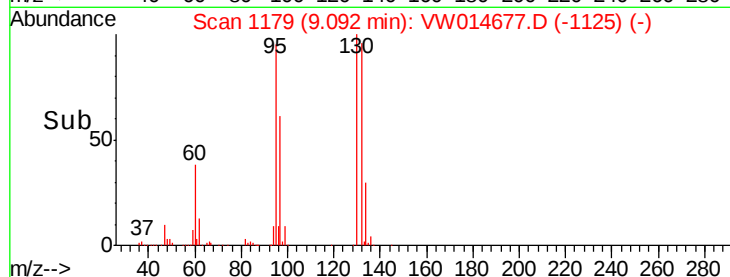
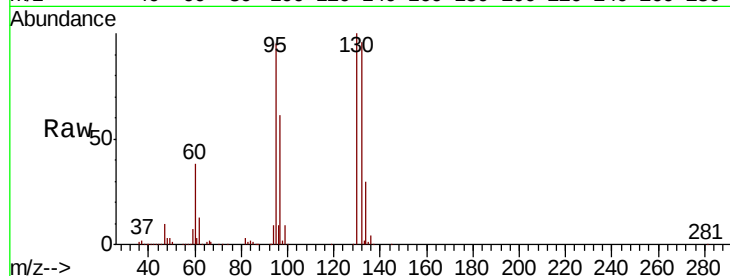
Ion Ratio Lower Upper

95 100

97 65.4 44.3 82.3

132 101.6 69.2 128.6

130 106.6 72.3 134.3



#36

Methylcyclohexane

Concen: 25.304 ug/L

RT: 9.33 min Scan# 1218

Delta R.T. -0.01 min

Lab File: VW014677.D

Acq: 16 Jan 2020 18:23

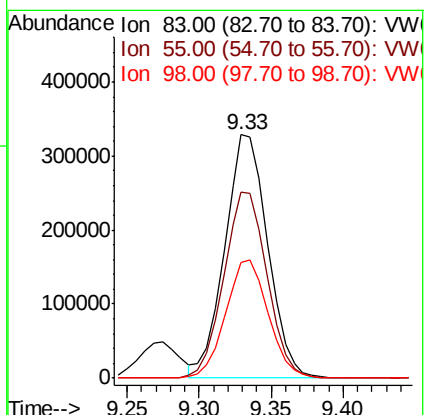
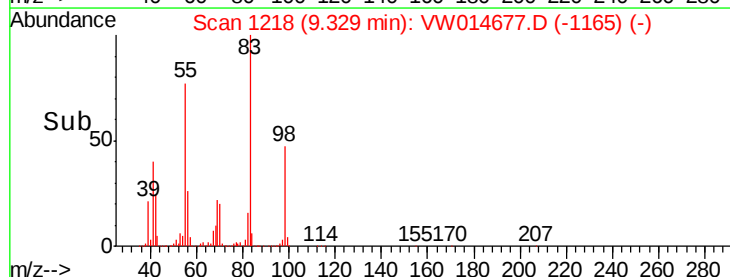
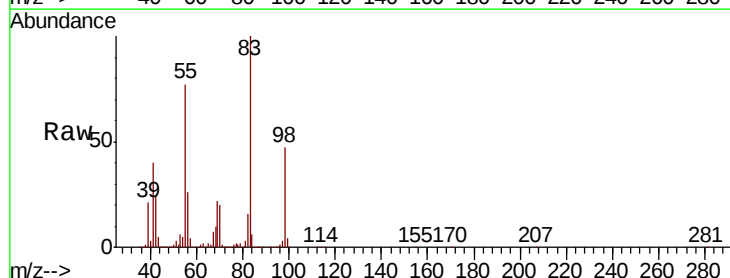
Tgt Ion: 83 Resp: 681290

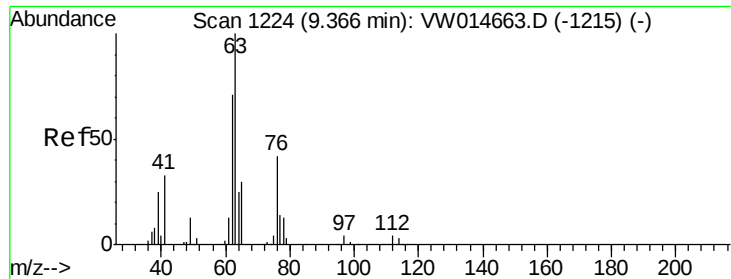
Ion Ratio Lower Upper

83 100

55 77.1 63.7 95.5

98 48.5 39.4 59.2

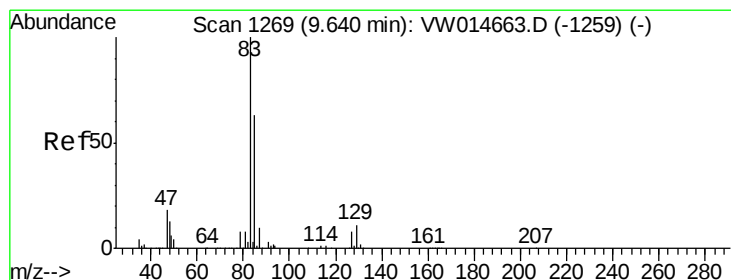
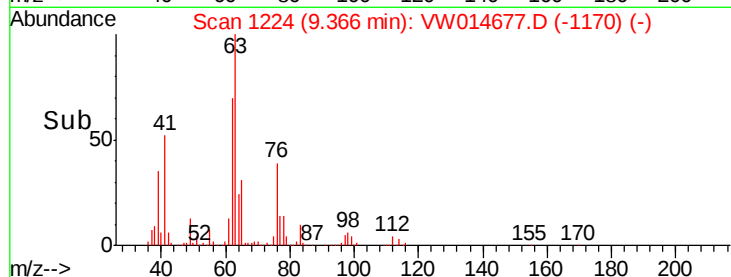
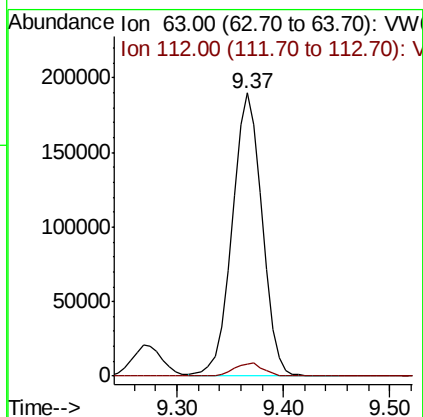
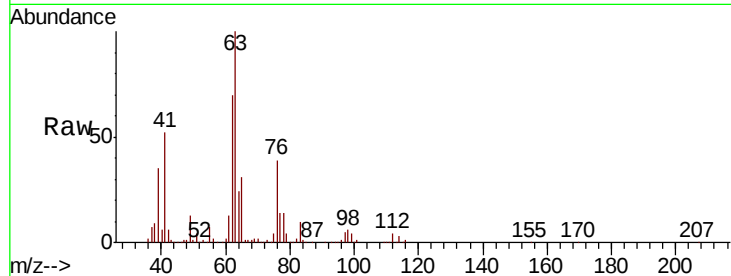




#40
 1,2-Dichloropropane
 Concen: 24.813 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. -0.00 min
 Lab File: VW014677.D
 Acq: 16 Jan 2020 18:23

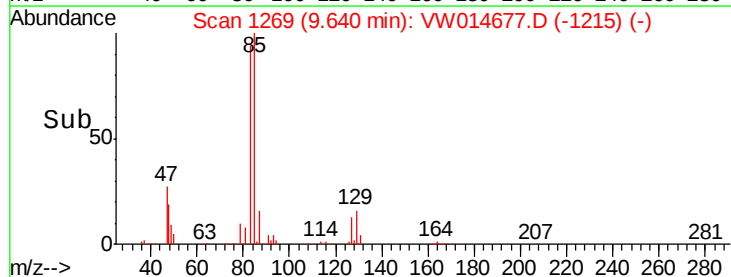
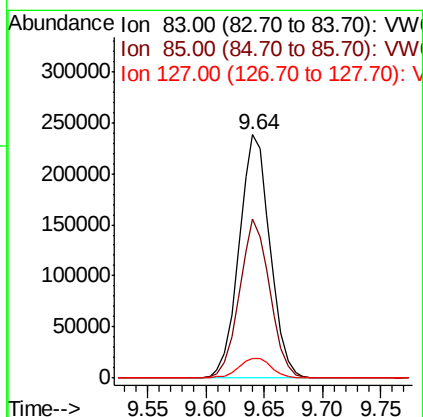
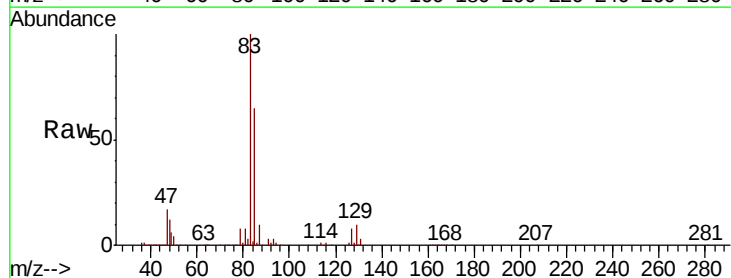
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02517

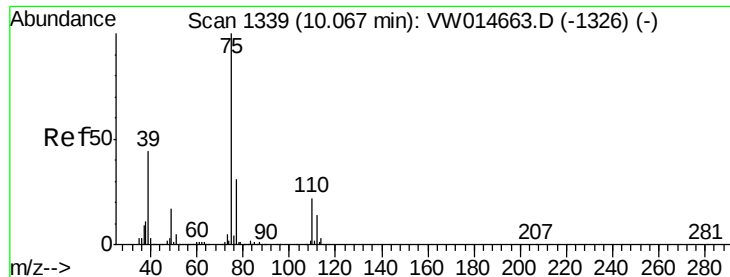
Tot Ion: 63 Resp: 373455
 Ion Ratio Lower Upper
 63 100
 112 4.5 3.7 5.5



#41
 Bromodichloromethane
 Concen: 24.275 ug/L
 RT: 9.64 min Scan# 1269
 Delta R.T. -0.00 min
 Lab File: VW014677.D
 Acq: 16 Jan 2020 18:23

Tgt Ion: 83 Resp: 439465
 Ion Ratio Lower Upper
 83 100
 85 65.1 44.7 83.1
 127 8.2 6.3 9.5





#42

cis-1,3-Dichloropropene

Concen: 25.413 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.01 min

Lab File: VW014677.D

Acq: 16 Jan 2020 18:23

Instrument :

MSVOA_W

ClientSampleId :

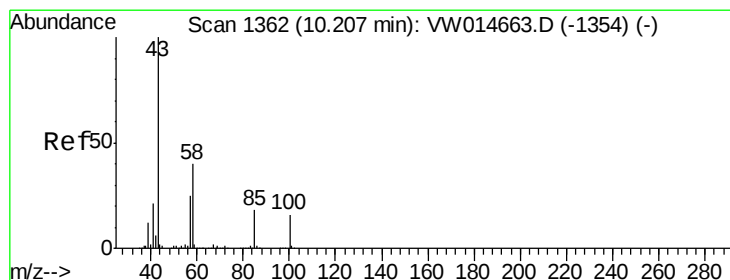
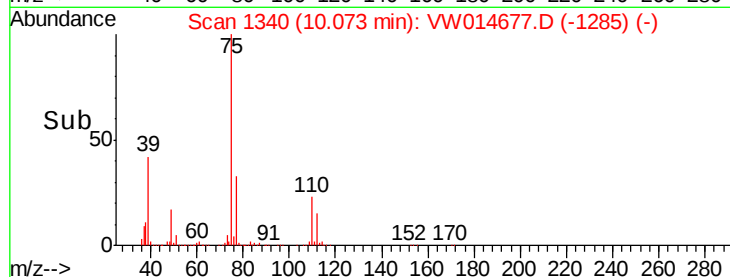
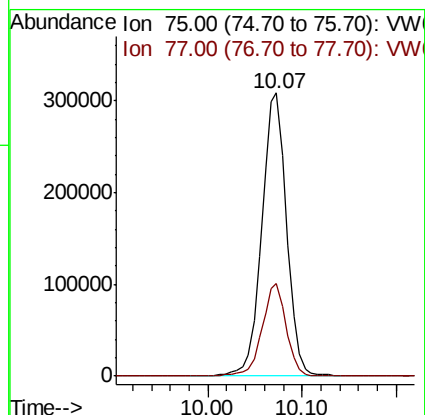
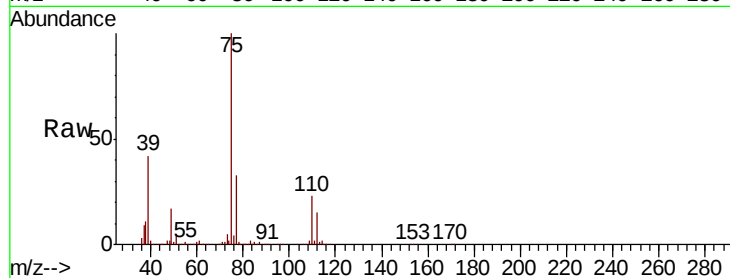
VSTD02517

Tot Ion: 75 Resp: 571353

Ion Ratio Lower Upper

75 100

77 32.9 21.0 39.0



#43

4-Methyl-2-pentanone

Concen: 47.096 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW014677.D

Acq: 16 Jan 2020 18:23

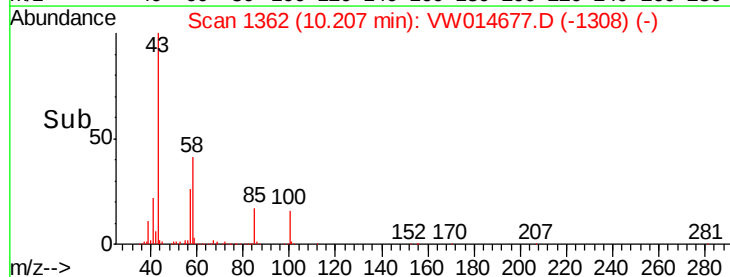
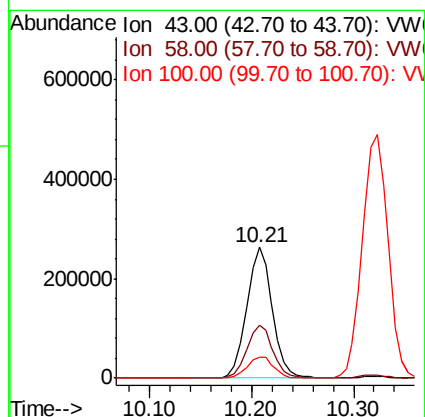
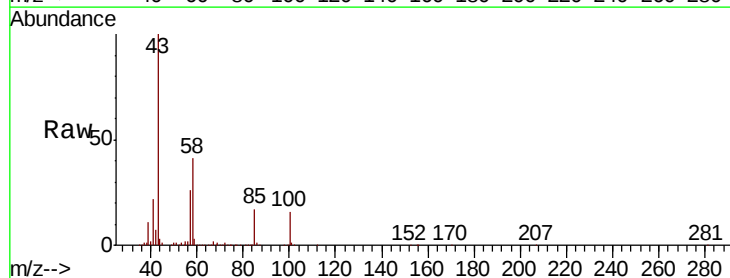
Tgt Ion: 43 Resp: 455028

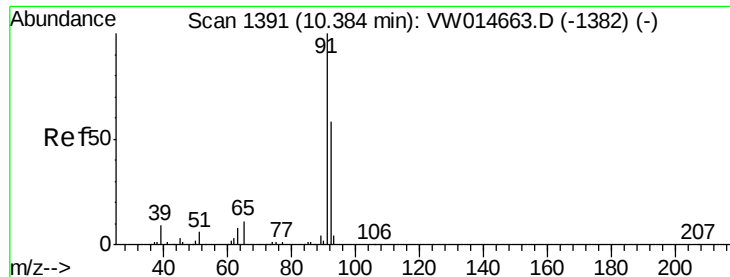
Ion Ratio Lower Upper

43 100

58 41.0 32.6 48.8

100 16.7 12.6 19.0





#44

Toluene

Concen: 25.677 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW014677.D

Acq: 16 Jan 2020 18:23

Instrument :

MSVOA_W

ClientSampled :

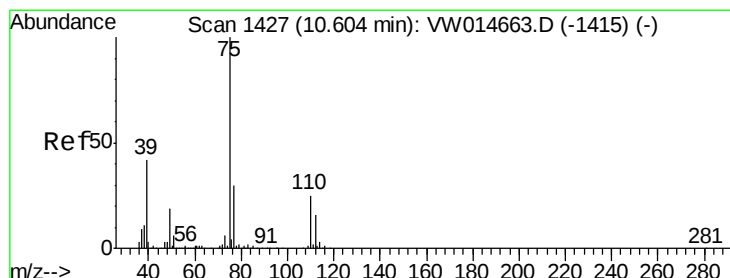
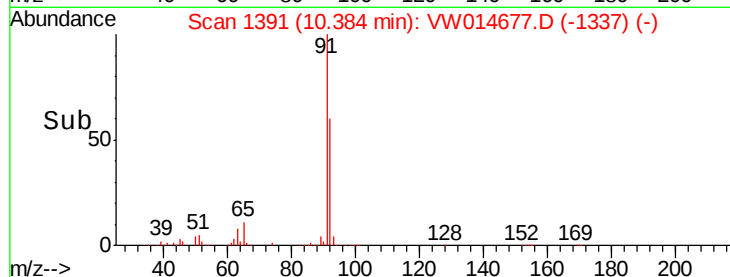
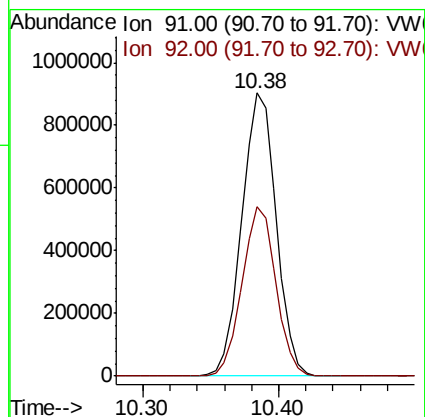
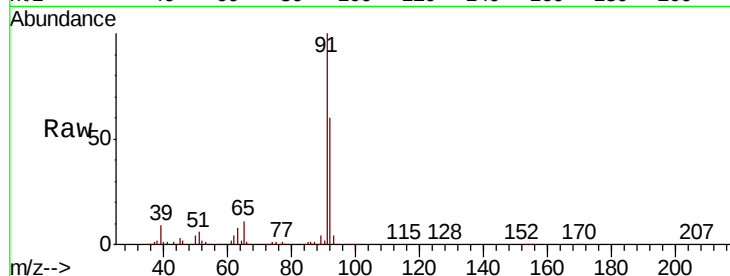
VSTD02517

Tot Ion: 91 Resp: 1595563

Ion Ratio Lower Upper

91 100

92 59.7 40.2 74.6



#45

trans-1,3-Dichloropropene

Concen: 24.371 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW014677.D

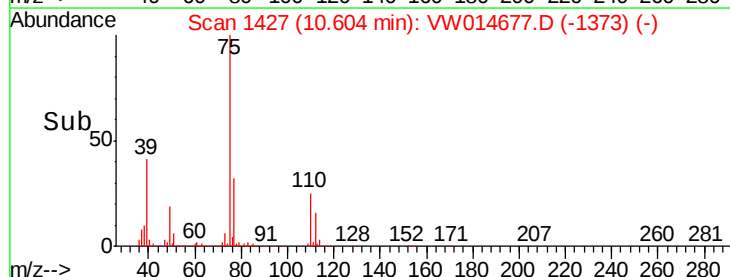
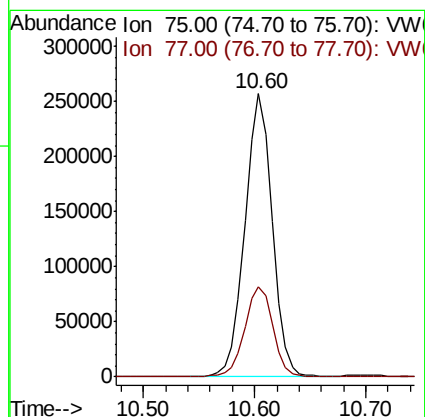
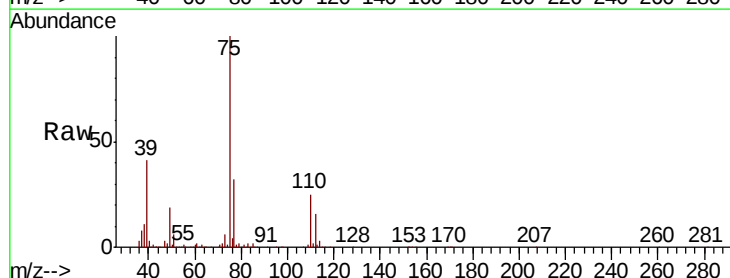
Acq: 16 Jan 2020 18:23

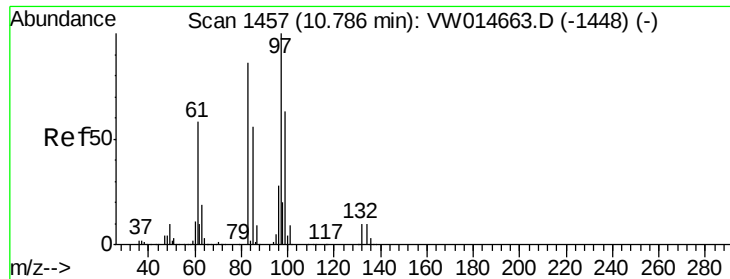
Tgt Ion: 75 Resp: 438116

Ion Ratio Lower Upper

75 100

77 31.9 21.1 39.3





#46

1,1,2-Trichloroethane

Concen: 24.255 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW014677.D

Acq: 16 Jan 2020 18:23

Instrument :

MSVOA_W

ClientSampleId :

VSTD02517

Tot Ion: 97 Resp: 258572

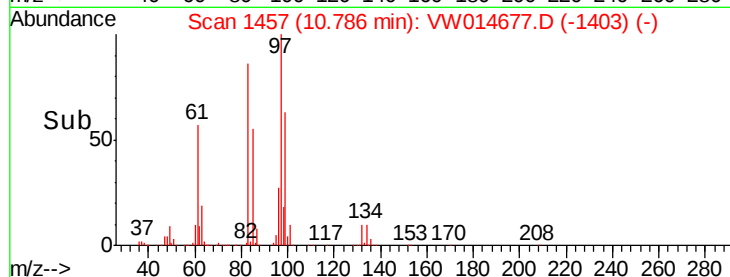
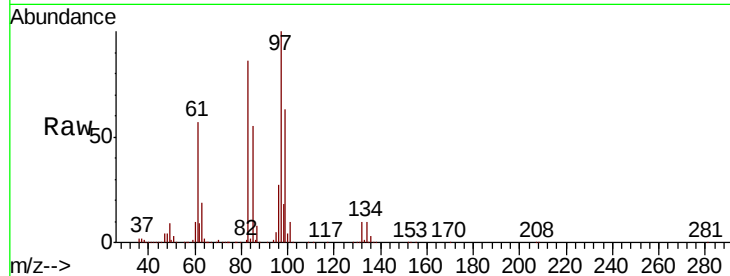
Ion Ratio Lower Upper

97 100

83 86.2 60.1 111.5

85 55.4 38.1 70.9

99 63.4 43.4 80.6

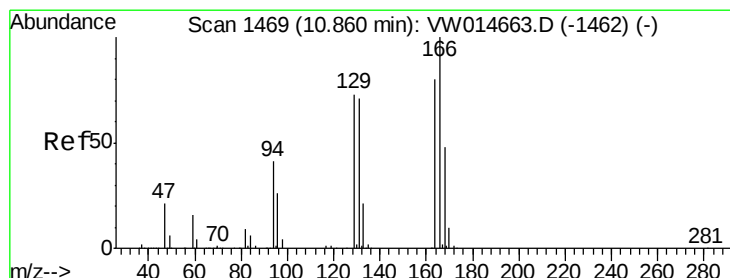
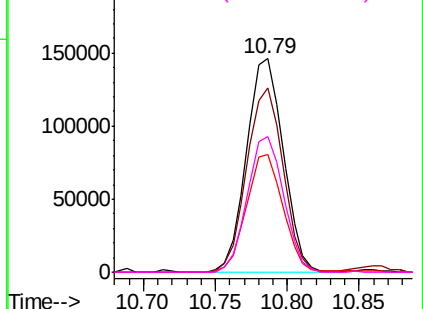


Abundance Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47

Tetrachloroethene

Concen: 24.454 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW014677.D

Acq: 16 Jan 2020 18:23

Tgt Ion: 164 Resp: 315116

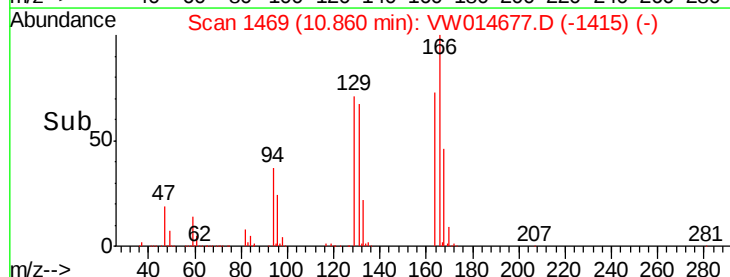
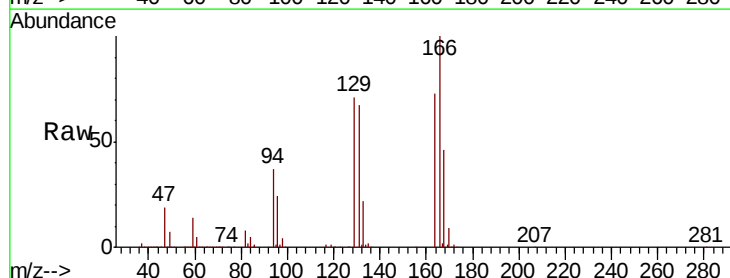
Ion Ratio Lower Upper

164 100

129 96.7 64.0 118.8

131 91.5 60.2 111.8

166 136.8 88.2 163.8

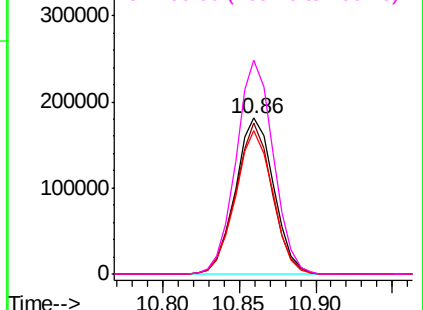


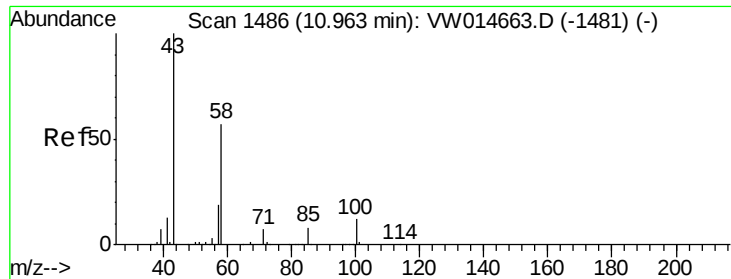
Abundance Ion 164.00 (163.70 to 164.70): V

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





#49

2-Hexanone

Concen: 48.410 ug/L

RT: 10.96 min Scan# 1486

Delta R.T. -0.00 min

Lab File: VW014677.D

Acq: 16 Jan 2020 18:23

Instrument :

MSVOA_W

ClientSampleId :

VSTD02517

Tot Ion: 43 Resp: 319393

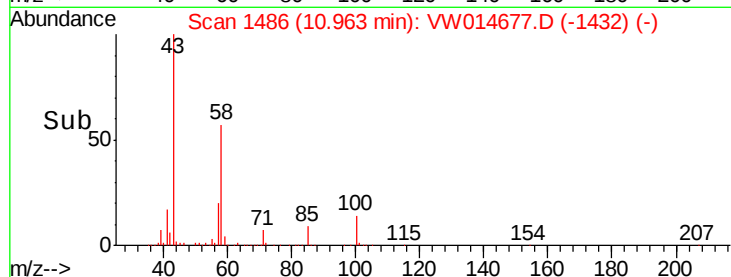
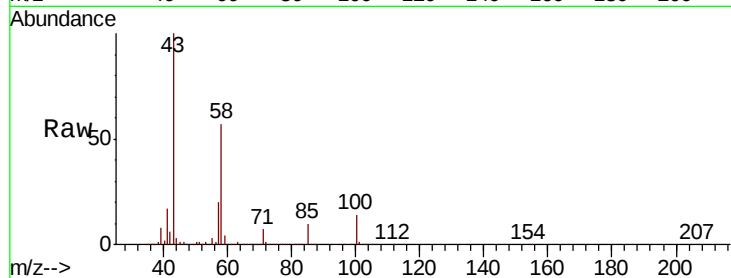
Ion Ratio Lower Upper

43 100

58 56.4 44.9 67.3

57 18.8 15.3 22.9

100 13.6 10.0 15.0

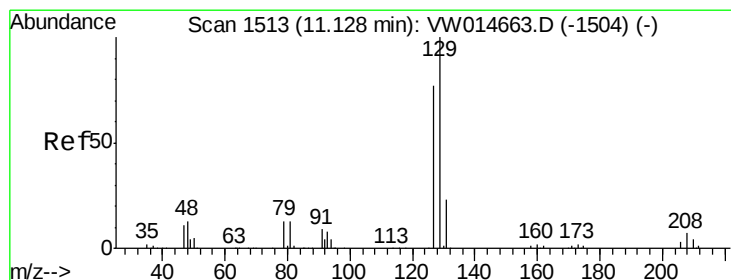
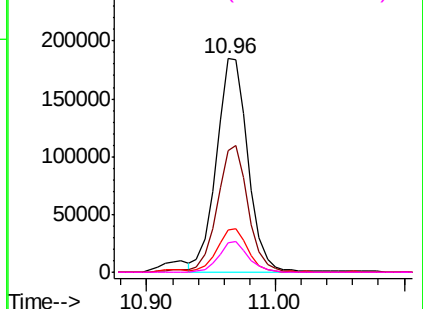


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 57.00 (56.70 to 57.70): VW

Ion 100.00 (99.70 to 100.70): VW



#50

Dibromochloromethane

Concen: 24.385 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW014677.D

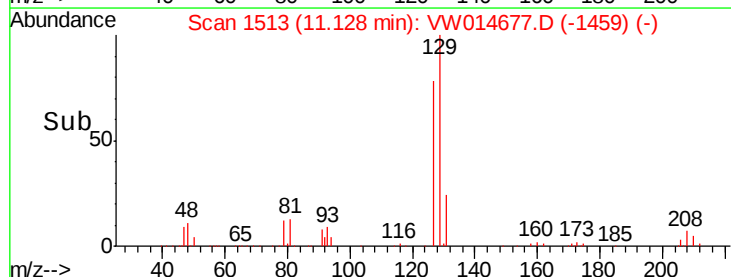
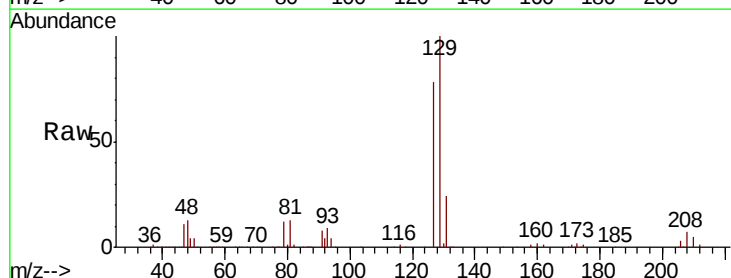
Acq: 16 Jan 2020 18:23

Tgt Ion:129 Resp: 295175

Ion Ratio Lower Upper

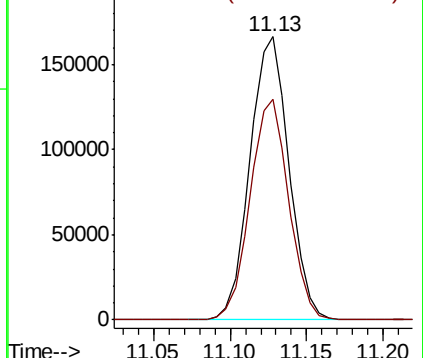
129 100

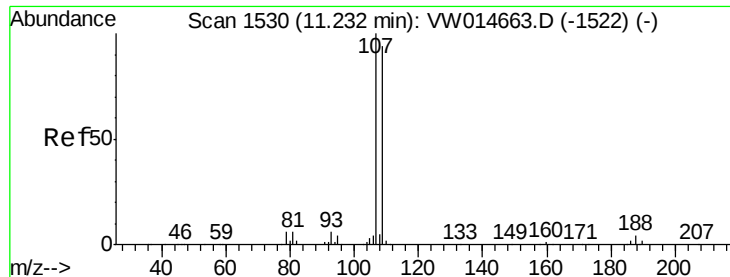
127 78.1 51.1 94.9



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

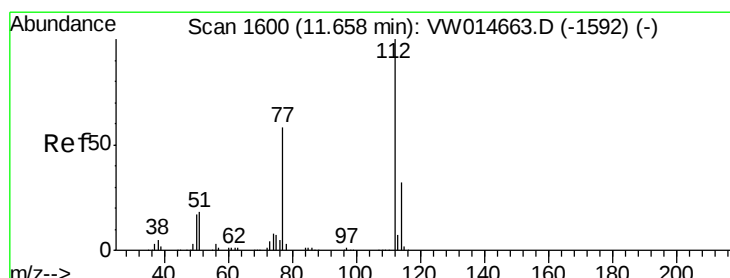
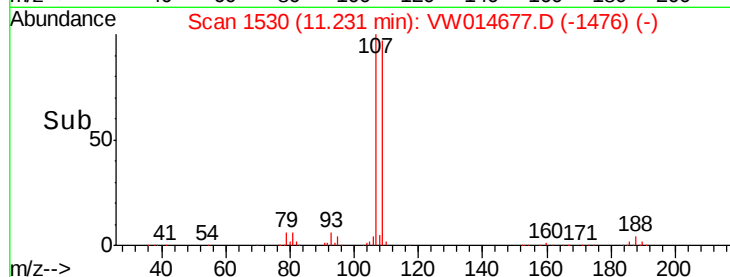
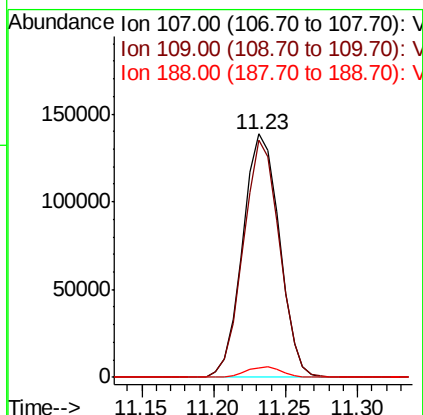
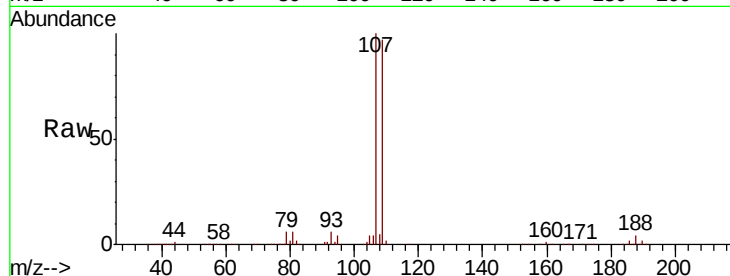




#51
1,2-Dibromoethane
Concen: 24.417 ug/L
RT: 11.23 min Scan# 1530
Delta R.T. -0.00 min
Lab File: VW014677.D
Acq: 16 Jan 2020 18:23

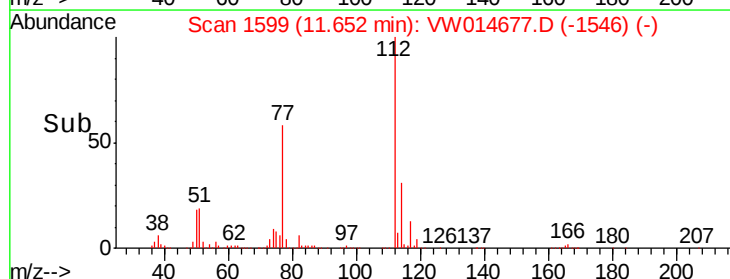
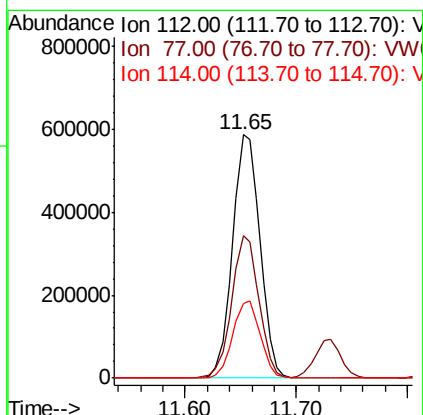
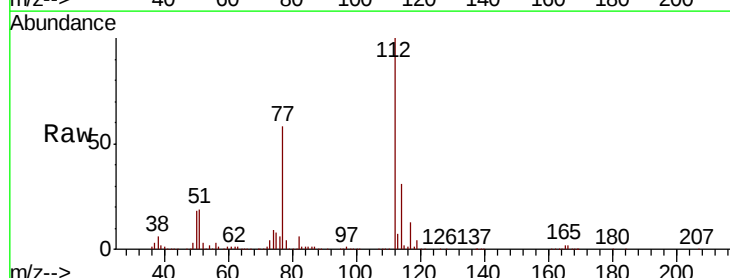
Instrument :
MSVOA_W
ClientSampleId :
VSTD02517

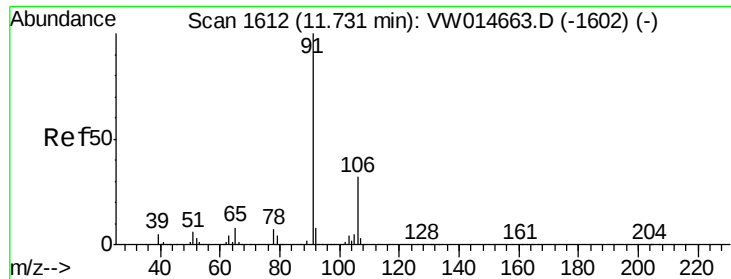
Tot Ion:107 Resp: 245710
Ion Ratio Lower Upper
107 100
109 97.2 64.7 120.1
188 4.0 3.0 4.6



#52
Chlorobenzene
Concen: 25.494 ug/L
RT: 11.65 min Scan# 1599
Delta R.T. -0.01 min
Lab File: VW014677.D
Acq: 16 Jan 2020 18:23

Tgt Ion:112 Resp: 1001443
Ion Ratio Lower Upper
112 100
77 58.3 48.2 72.2
114 30.9 22.9 42.5

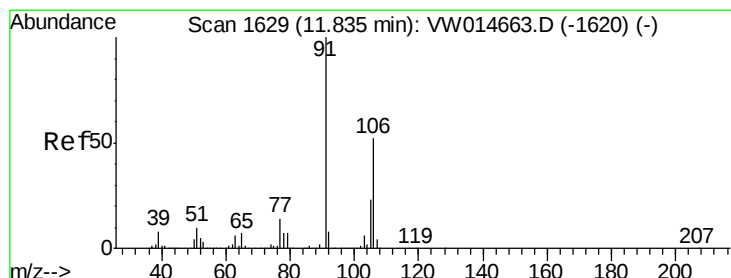
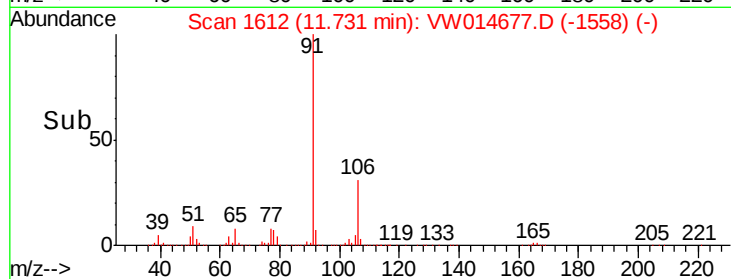
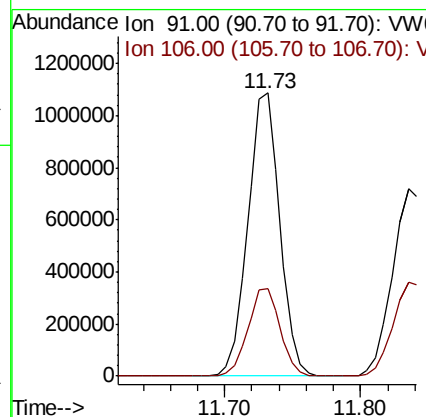
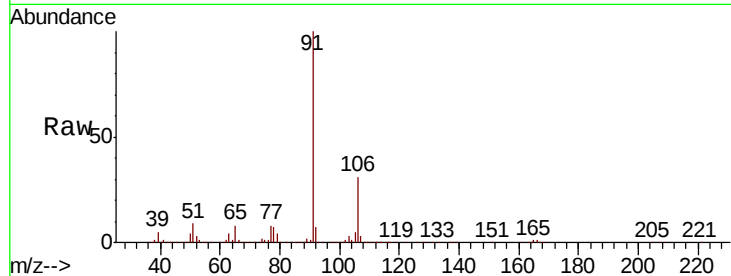




#53
Ethylbenzene
Concen: 26.050 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW014677.D
Acq: 16 Jan 2020 18:23

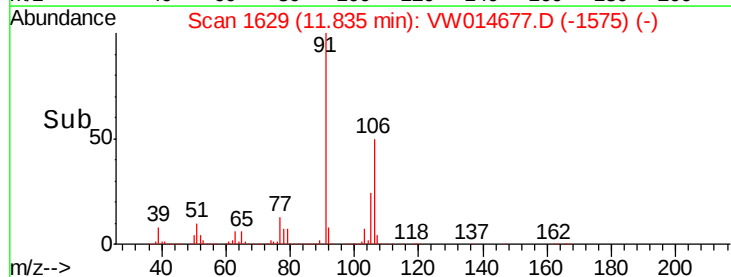
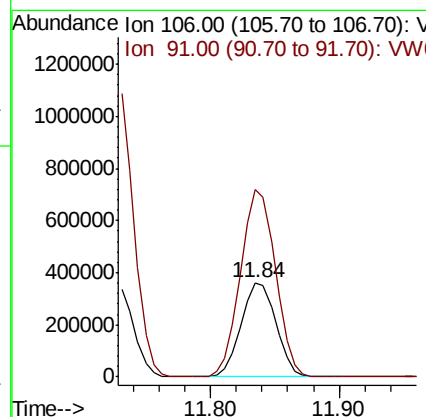
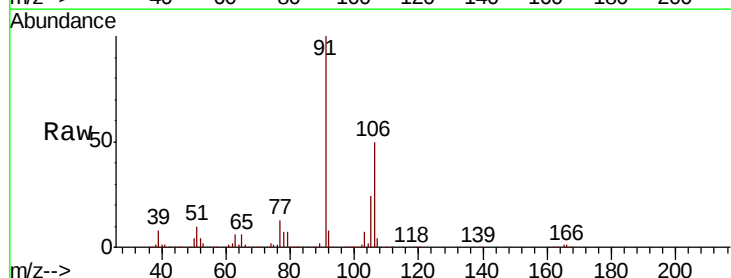
Instrument :
MSVOA_W
ClientSampleId :
VSTD02517

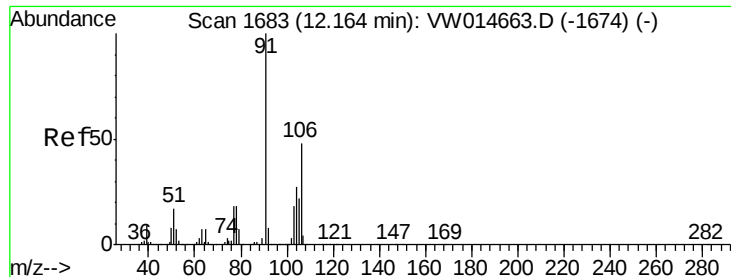
Tot Ion: 91 Resp: 1779808
Ion Ratio Lower Upper
91 100
106 30.9 21.8 40.6



#54
m,p-Xylene
Concen: 26.298 ug/L
RT: 11.84 min Scan# 1629
Delta R.T. -0.00 min
Lab File: VW014677.D
Acq: 16 Jan 2020 18:23

Tgt Ion: 106 Resp: 679952
Ion Ratio Lower Upper
106 100
91 199.5 142.2 264.0





#55

o-xylene

Concen: 26.306 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW014677.D

Acq: 16 Jan 2020 18:23

Instrument :

MSVOA_W

ClientSampleId :

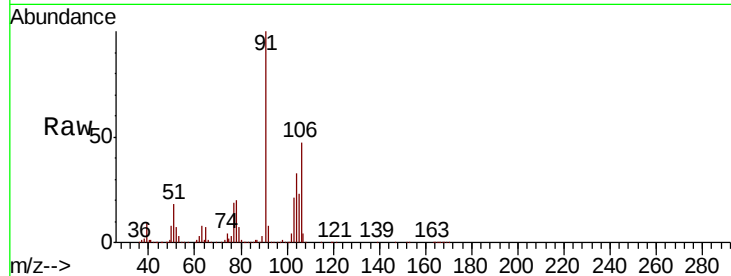
VSTD02517

Tot Ion:106 Resp: 642431

Ion Ratio Lower Upper

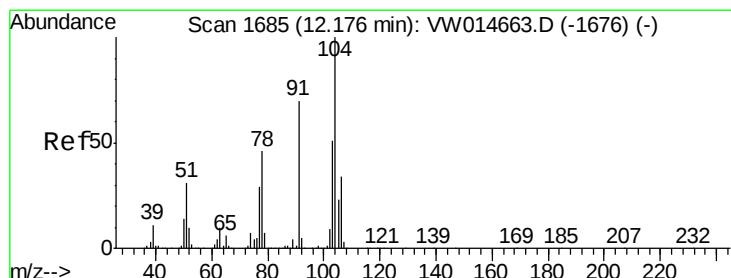
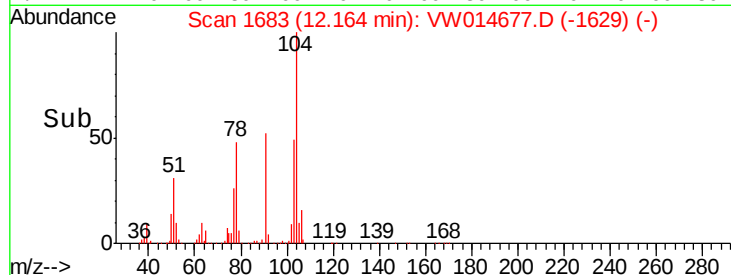
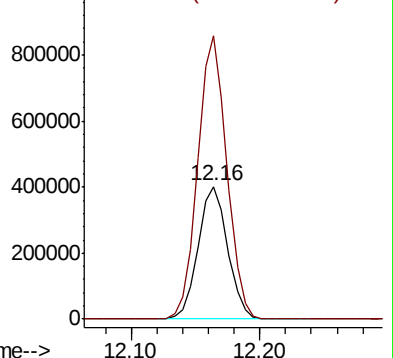
106 100

91 213.0 148.7 276.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 26.595 ug/L

RT: 12.18 min Scan# 1685

Delta R.T. -0.00 min

Lab File: VW014677.D

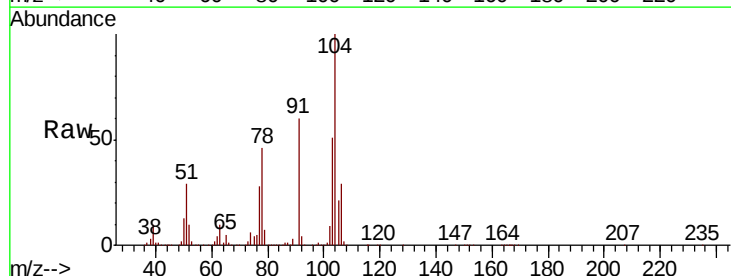
Acq: 16 Jan 2020 18:23

Tgt Ion:104 Resp: 1093197

Ion Ratio Lower Upper

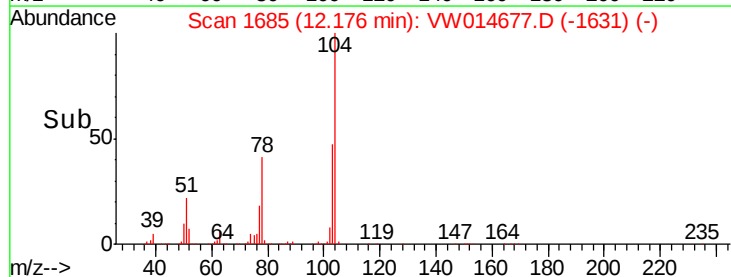
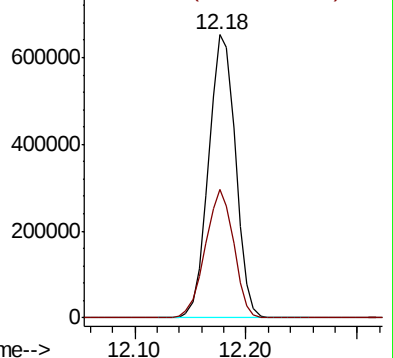
104 100

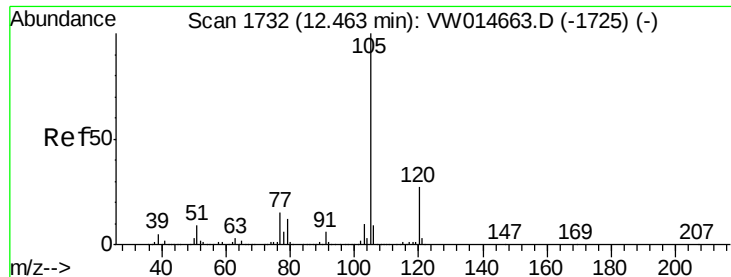
78 45.6 32.3 60.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 26.697 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW014677.D

Acq: 16 Jan 2020 18:23

Instrument :

MSVOA_W

ClientSampleId :

VSTD02517

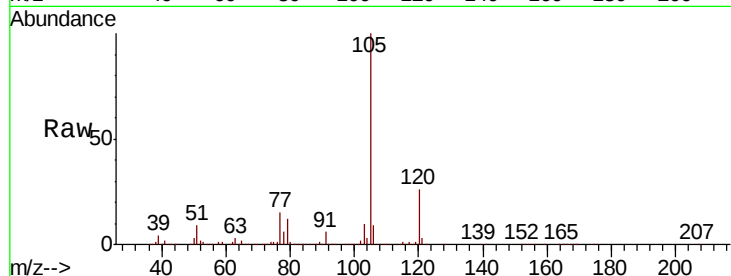
Tot Ion:105 Resp: 1734268

Ion Ratio Lower Upper

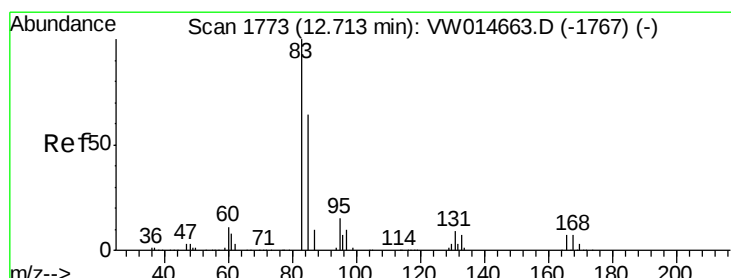
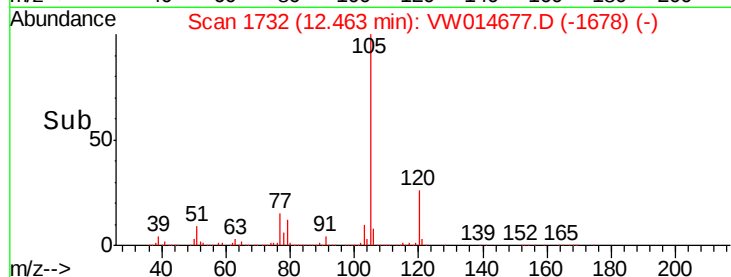
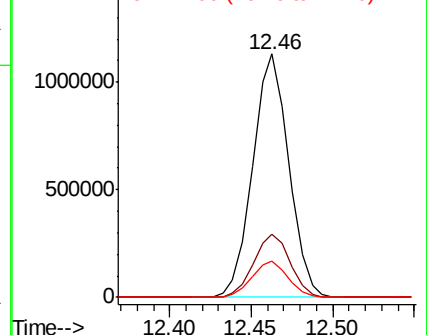
105 100

120 26.5 21.0 31.6

77 14.8 12.2 18.2



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: 23.923 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW014677.D

Acq: 16 Jan 2020 18:23

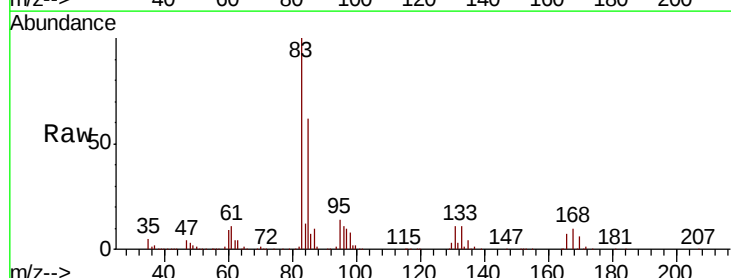
Tgt Ion: 83 Resp: 309643

Ion Ratio Lower Upper

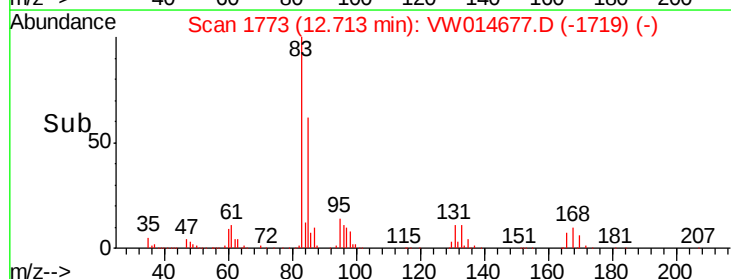
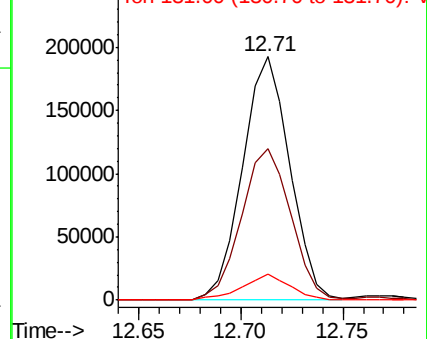
83 100

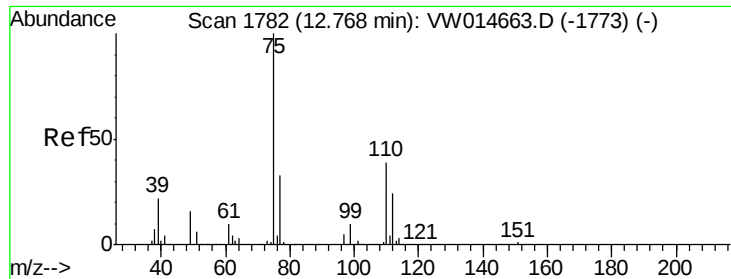
85 62.4 45.3 84.1

131 10.5 8.0 12.0



Abundance Ion 83.00 (82.70 to 83.70): V
Ion 85.00 (84.70 to 85.70): V
Ion 131.00 (130.70 to 131.70): V

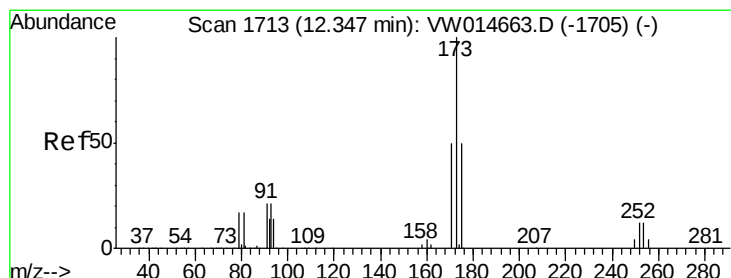
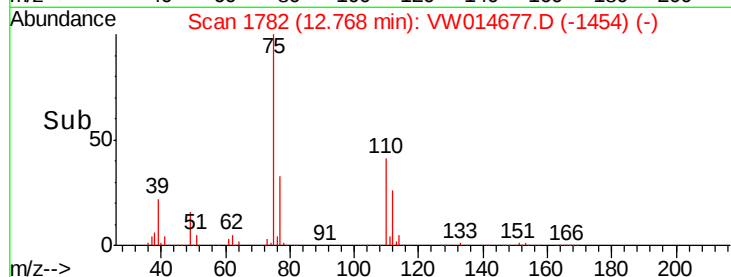
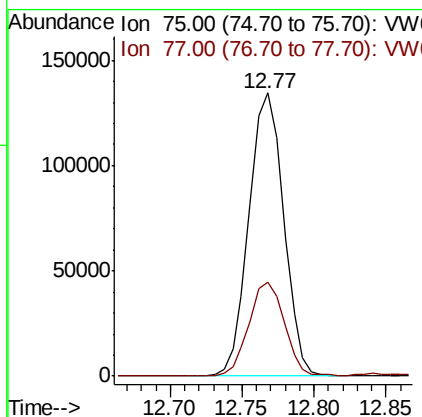
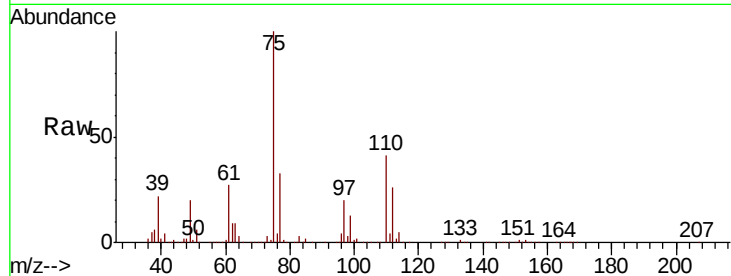




#59
 1,2,3-Trichloropropane
 Concen: 23.199 ug/L
 RT: 12.77 min Scan# 1782
 Delta R.T. -0.00 min
 Lab File: VW014677.D
 Acq: 16 Jan 2020 18:23

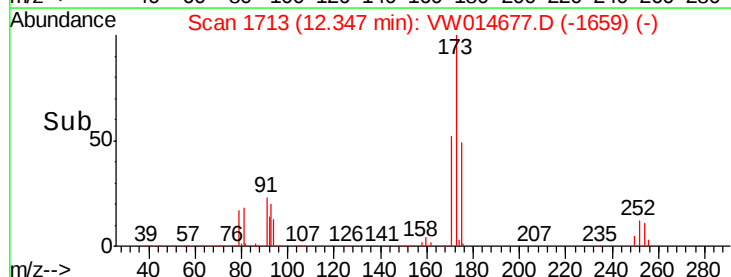
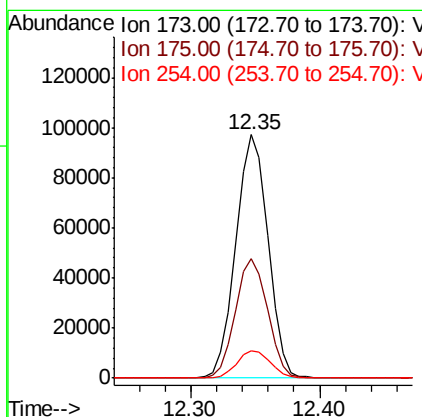
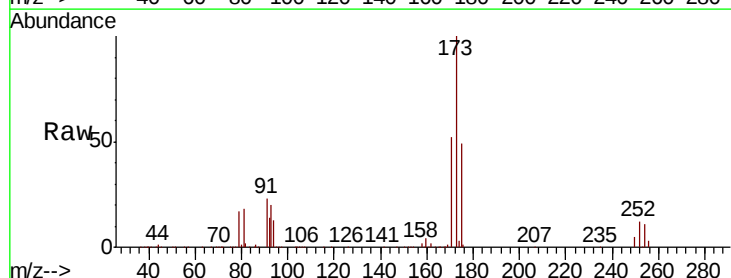
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02517

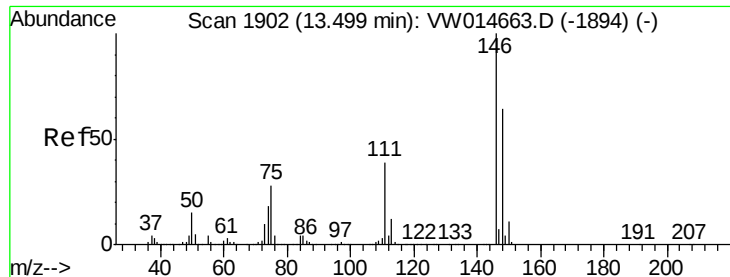
Tot Ion: 75 Resp: 224944
 Ion Ratio Lower Upper
 75 100
 77 34.0 26.2 39.2



#62
 Bromoform
 Concen: 23.551 ug/L
 RT: 12.35 min Scan# 1713
 Delta R.T. -0.00 min
 Lab File: VW014677.D
 Acq: 16 Jan 2020 18:23

Tgt Ion: 173 Resp: 168169
 Ion Ratio Lower Upper
 173 100
 175 49.3 40.5 60.7
 254 11.6 9.3 13.9





#63

1,3-Dichlorobenzene

Concen: 25.906 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW014677.D

Acq: 16 Jan 2020 18:23

Instrument :

MSVOA_W

ClientSampleId :

VSTD02517

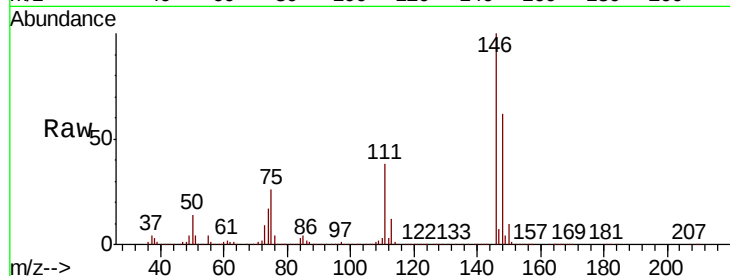
Tot Ion:146 Resp: 783741

Ion Ratio Lower Upper

146 100

111 37.7 26.9 50.1

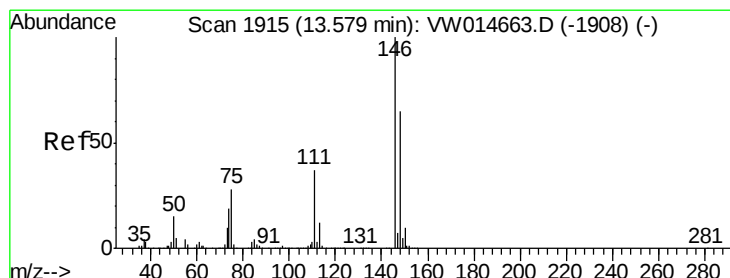
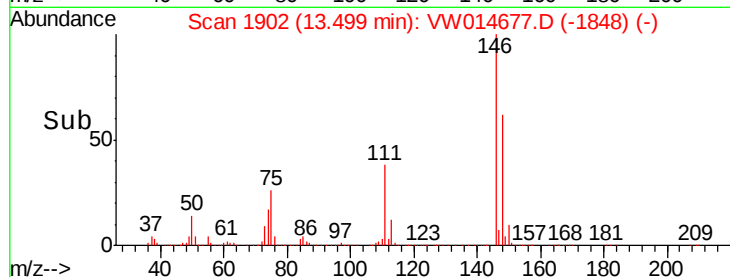
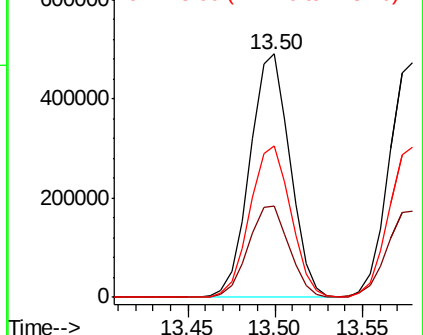
148 62.4 45.1 83.7



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: 25.005 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW014677.D

Acq: 16 Jan 2020 18:23

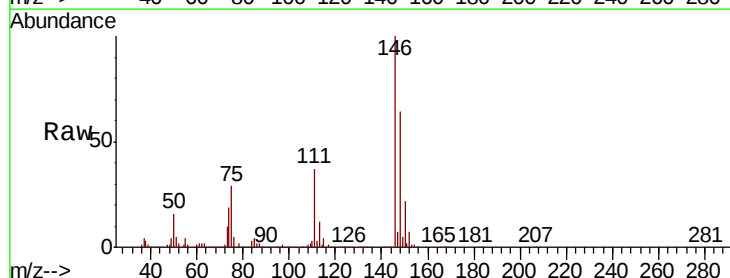
Tgt Ion:146 Resp: 762787

Ion Ratio Lower Upper

146 100

111 36.9 24.5 45.5

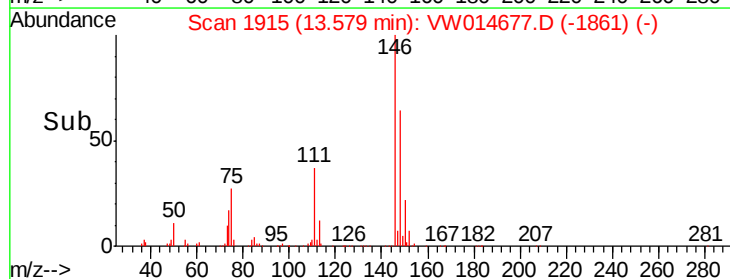
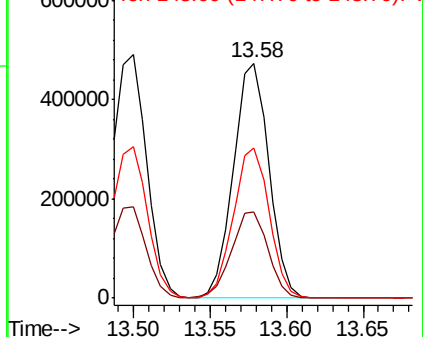
148 63.7 44.4 82.4

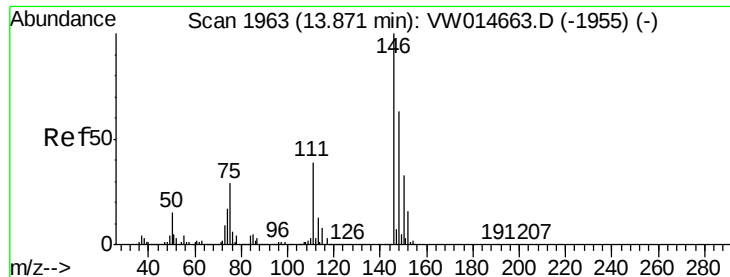


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

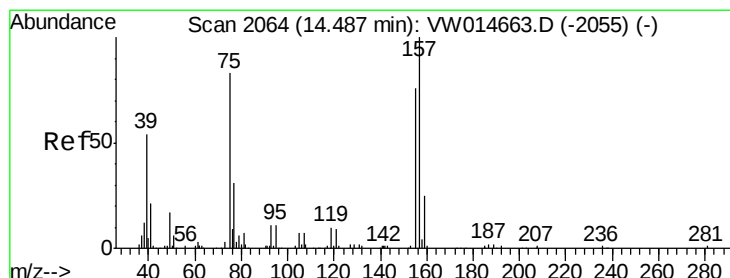
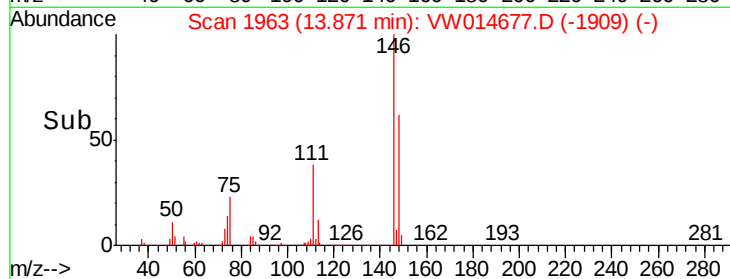
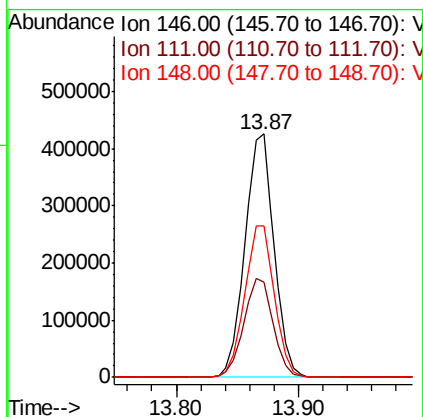
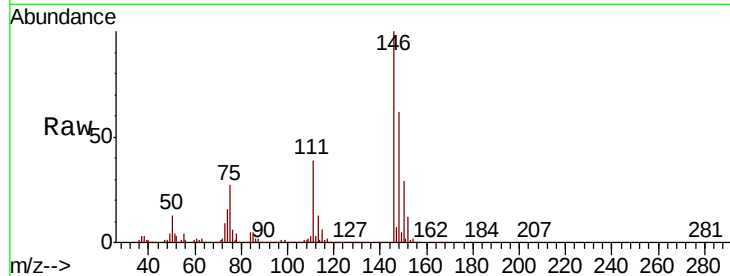




#65
 1,2-Dichlorobenzene
 Concen: 25.931 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. -0.00 min
 Lab File: VW014677.D
 Acq: 16 Jan 2020 18:23

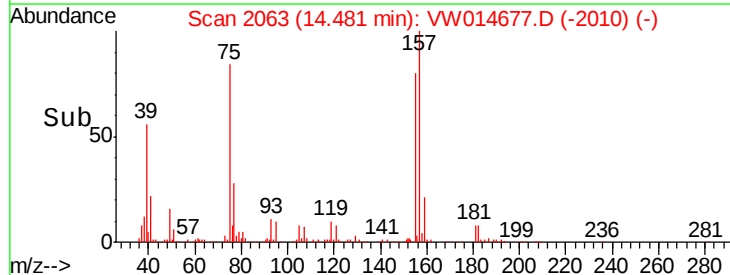
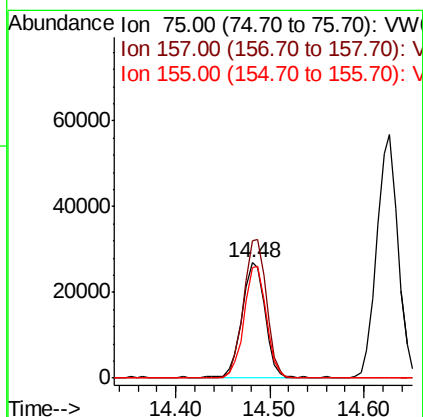
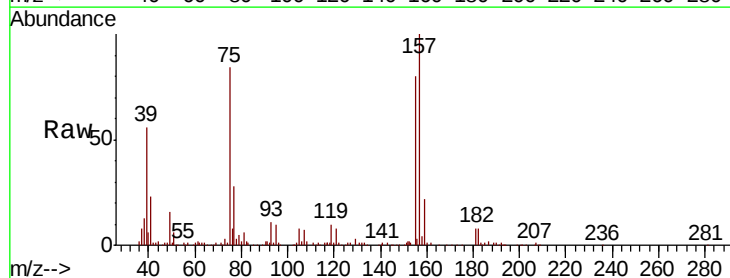
Instrument :
 MSVOA_W
 ClientSampled :
 VSTD02517

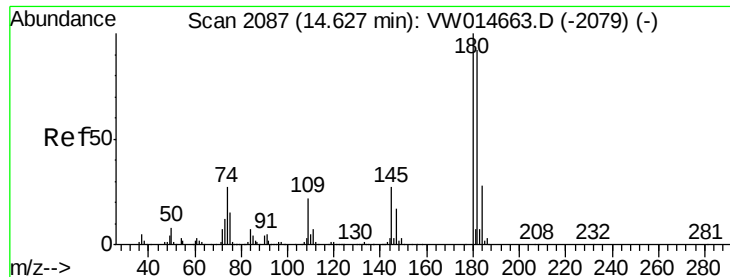
Tot Ion:146 Resp: 703280
 Ion Ratio Lower Upper
 146 100
 111 38.8 34.2 51.2
 148 62.1 51.8 77.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 23.153 ug/L
 RT: 14.48 min Scan# 2063
 Delta R.T. -0.01 min
 Lab File: VW014677.D
 Acq: 16 Jan 2020 18:23

Tgt Ion: 75 Resp: 46499
 Ion Ratio Lower Upper
 75 100
 157 119.5 87.2 130.8
 155 95.8 67.8 101.8

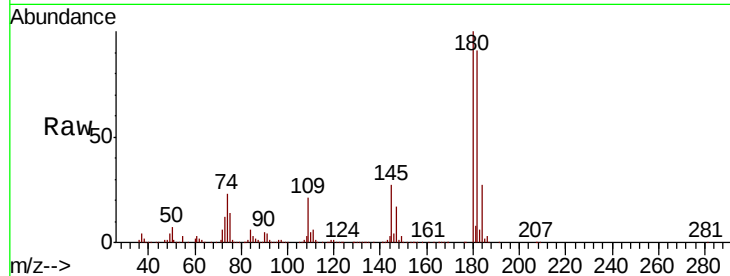




#67
 1,3,5-Trichlorobenzene
 Concen: 27.128 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VW014677.D
 Acq: 16 Jan 2020 18:23

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02517

Tot Ion:180	Resp:	607960
Ion	Ratio	Lower Upper
180	100	
182	93.8	75.8 113.6
184	29.9	24.0 36.0
145	27.4	22.6 33.8



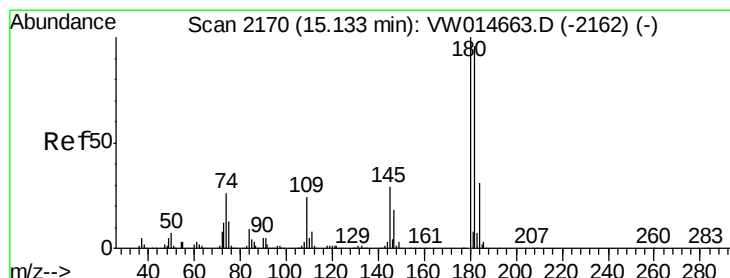
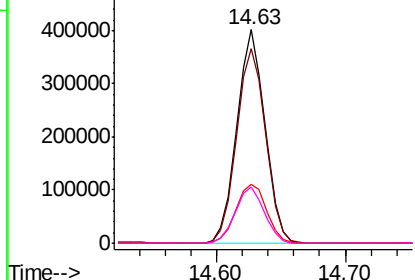
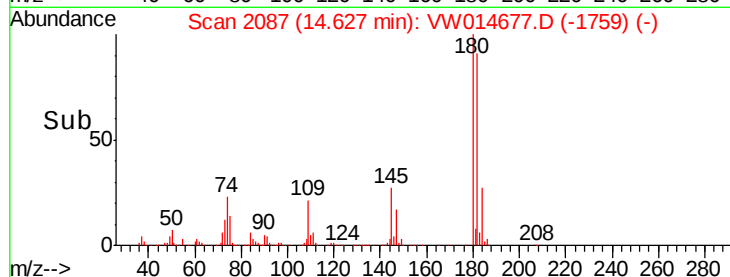
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

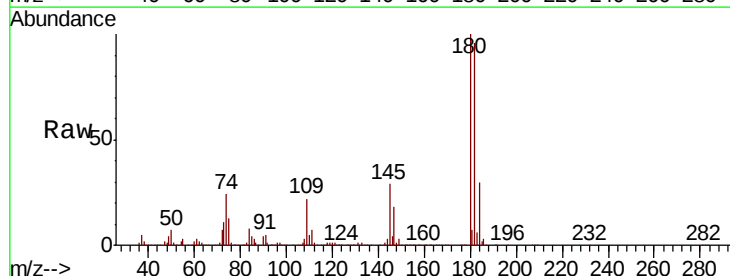
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 29.115 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW014677.D
 Acq: 16 Jan 2020 18:23

Tgt Ion:180	Resp:	489121
Ion	Ratio	Lower Upper
180	100	
182	96.2	76.2 114.4
145	29.2	23.1 34.7

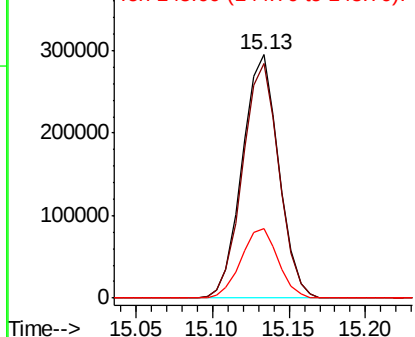
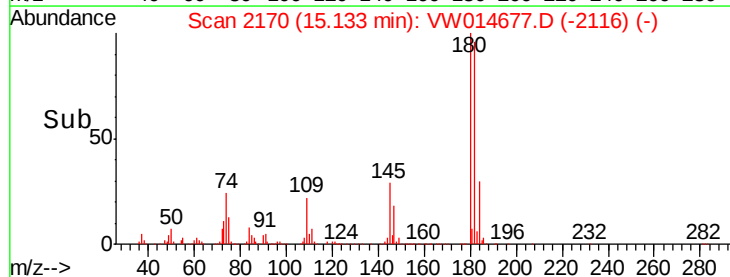


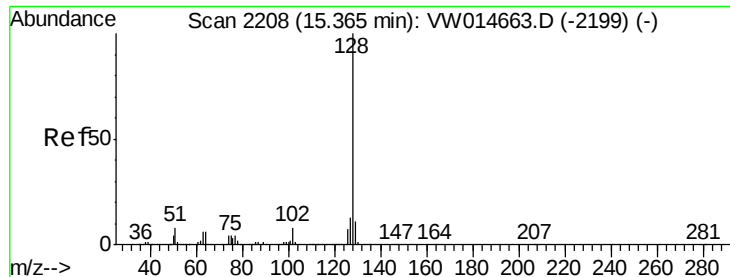
Abundance

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: 31.423 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW014677.D

Acq: 16 Jan 2020 18:23

Instrument :

MSVOA_W

ClientSampleId :

VSTD02517

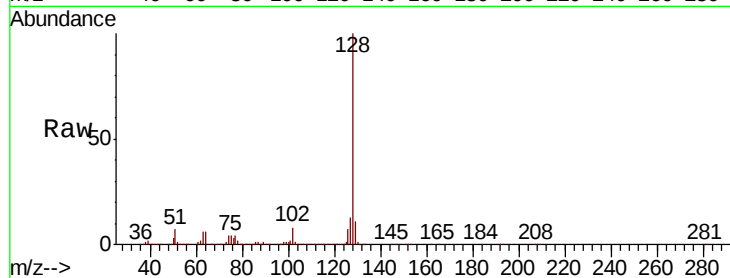
Tot Ion:128 Resp: 911369

Ion Ratio Lower Upper

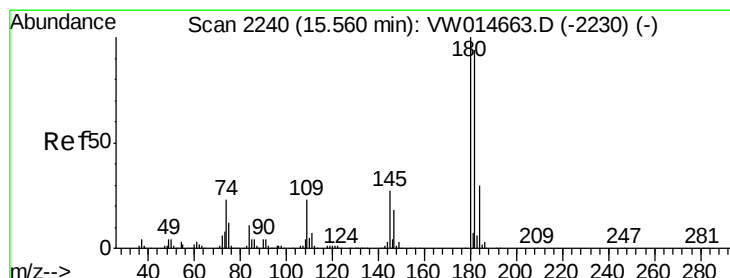
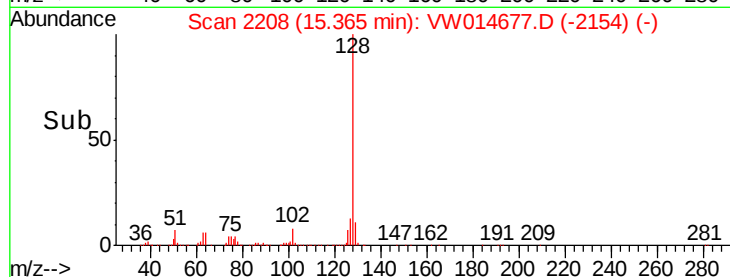
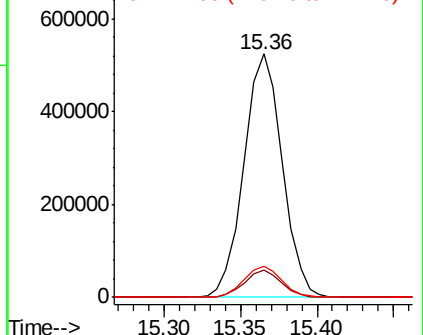
128 100

129 11.0 8.8 13.2

127 12.7 10.6 16.0



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: 28.529 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. -0.01 min

Lab File: VW014677.D

Acq: 16 Jan 2020 18:23

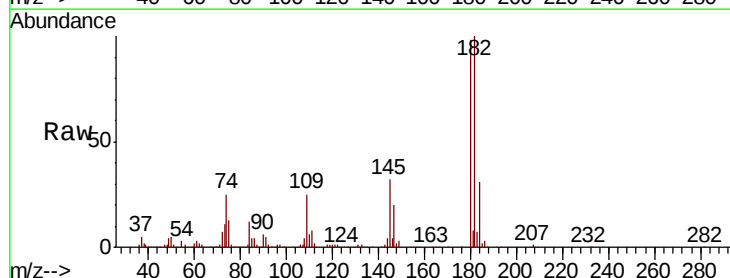
Tgt Ion:180 Resp: 434313

Ion Ratio Lower Upper

180 100

182 95.5 77.0 115.6

145 30.7 24.9 37.3



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

