

Data File : VW015037.D
Acq On : 25 Feb 2020 16:47
Operator : SY/VA
Sample : VSTDCCC025EC
Misc : 5.002G/10ML/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD02528

Quant Time: Feb 26 03:55:14 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM022420S.M
Quant Title : VOC Analysis
QLast Update : Wed Feb 26 03:52:23 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	744425	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	688139	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	300986	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	406220	21.81	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	87.24%
7) Chloroethane-d5	2.89	69	293658	21.88	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	87.52%
10) 1,1-Dichloroethene-d2	4.02	63	671347	23.17	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	92.68%
20) 2-Butanone-d5	7.07	46	169246	54.38	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	108.76%
24) Chloroform-d	7.65	84	589029	24.08	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	96.32%
26) 1,2-Dichloroethane-d4	8.31	65	336566	24.59	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	98.36%
29) Benzene-d6	8.27	84	1173137	24.81	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	99.24%
33) 1,2-Dichloropropane-d6	9.27	67	397597	25.12	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	100.48%
37) Toluene-d8	10.32	98	1010742	25.62	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	102.48%
38) trans-1,3-Dichloropropene-	10.57	79	148102	25.31	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	101.24%
39) 2-Hexanone-d5	10.92	63	122019	58.22	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	116.44%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	267483	26.15	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	104.60%
61) 1,2-Dichlorobenzene-d4	13.85	152	275497	24.98	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	99.92%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	129621	20.406	ug/L	98
3) Chloromethane	2.21	50	296979	20.395	ug/L	99
5) Vinyl chloride	2.36	62	413495	21.948	ug/L	100
6) Bromomethane	2.78	94	183977	21.753	ug/L	98
8) Chloroethane	2.93	64	229021	22.341	ug/L	97
9) Trichlorofluoromethane	3.26	101	180315	21.237	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	275769	23.582	ug/L	99
12) 1,1-Dichloroethene	4.04	96	265127	23.814	ug/L	94
13) Acetone	4.12	43	176699	48.000	ug/L	98
14) Carbon disulfide	4.39	76	950487	22.814	ug/L	99
15) Methyl Acetate	4.67	43	162561	26.225	ug/L	99
16) Methylene chloride	4.92	84	317728	23.059	ug/L	100
17) Methyl tert-butyl Ether	5.42	73	355247	26.361	ug/L	100
18) trans-1,2-Dichloroethene	5.42	96	273207	23.752	ug/L	92
19) 1,1-Dichloroethane	6.21	63	618780	24.120	ug/L	99
21) 2-Butanone	7.17	43	227180	52.481	ug/L	99
22) cis-1,2-Dichloroethene	7.17	96	289779	24.755	ug/L	97

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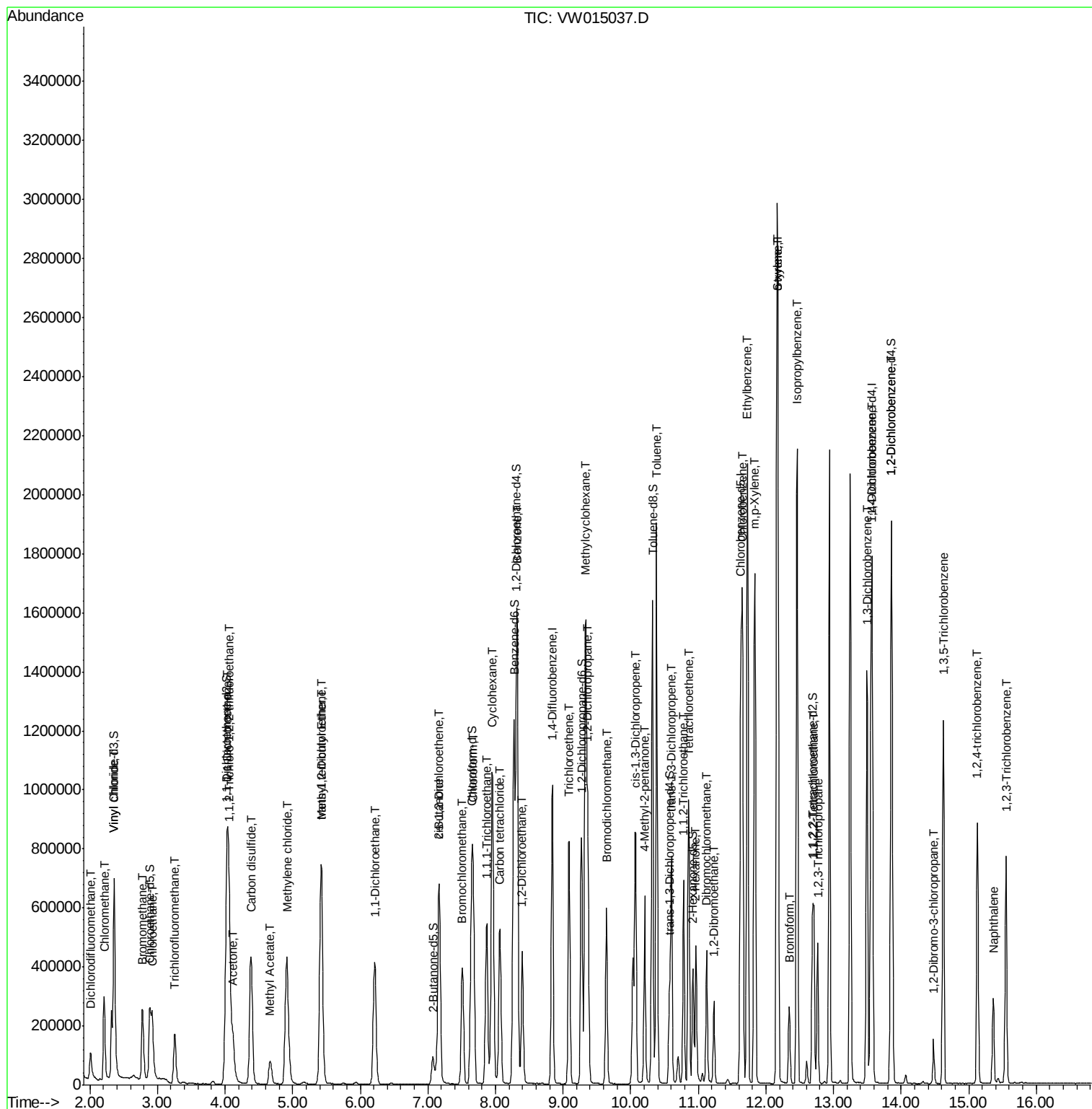
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	112288	24.659	ug/L	96
25) Chloroform	7.67	83	552427	23.728	ug/L	99
27) 1,2-Dichloroethane	8.40	62	399955	25.108	ug/L	99
30) Cyclohexane	7.95	56	596481	25.926	ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	414730	23.369	ug/L	99
32) Carbon tetrachloride	8.07	117	374740	23.564	ug/L	99
34) Benzene	8.32	78	1285382	25.111	ug/L	100
35) Trichloroethene	9.09	95	298194	24.082	ug/L	99
36) Methylcyclohexane	9.34	83	552388	25.979	ug/L	98
40) 1,2-Dichloropropane	9.37	63	356441	25.071	ug/L	100
41) Bromodichloromethane	9.64	83	395013	24.770	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	487701	26.325	ug/L	99
43) 4-Methyl-2-pentanone	10.21	43	441978	55.582	ug/L	100
44) Toluene	10.38	91	1281919	25.786	ug/L	99
45) trans-1,3-Dichloropropene	10.60	75	390195	26.059	ug/L	99
46) 1,1,2-Trichloroethane	10.79	97	200412	25.050	ug/L	98
47) Tetrachloroethene	10.86	164	187820	23.535	ug/L	98
49) 2-Hexanone	10.96	43	324095	56.219	ug/L	99
50) Dibromochloromethane	11.13	129	214057	25.141	ug/L	94
51) 1,2-Dibromoethane	11.23	107	181070	25.969	ug/L	93
52) Chlorobenzene	11.65	112	711102	24.319	ug/L	99
53) Ethylbenzene	11.73	91	1406175	25.892	ug/L	100
54) m,p-Xylene	11.83	106	493857	25.991	ug/L	99
55) o-xylene	12.16	106	462218	26.107	ug/L	100
56) Styrene	12.18	104	808702	26.669	ug/L	96
57) Isopropylbenzene	12.46	105	1261193	26.157	ug/L	100
58) 1,1,2,2-Tetrachloroethane	12.71	83	259278	25.685	ug/L	100
59) 1,2,3-Trichloropropane	12.77	75	200956	25.901	ug/L	100
62) Bromoform	12.35	173	104801	24.772	ug/L	100
63) 1,3-Dichlorobenzene	13.49	146	485491	24.725	ug/L	98
64) 1,4-Dichlorobenzene	13.58	146	495197	24.494	ug/L	95
65) 1,2-Dichlorobenzene	13.87	146	445699	25.063	ug/L	99
66) 1,2-Dibromo-3-chloropropan	14.48	75	39605	25.227	ug/L	96
67) 1,3,5-Trichlorobenzene	14.63	180	325906	24.751	ug/L	100
68) 1,2,4-trichlorobenzene	15.13	180	246096	25.573	ug/L	98
69) Naphthalene	15.36	128	226421	26.504	ug/L	100
70) 1,2,3-Trichlorobenzene	15.55	180	220869	25.571	ug/L	99

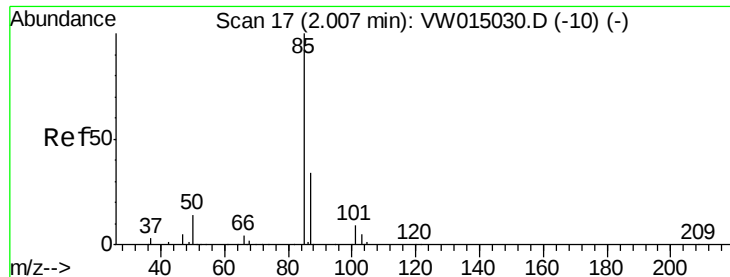
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 20.406 ug/L

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW015037.D

Acq: 25 Feb 2020 16:47

Instrument :

MSVOA_W

ClientSampleId :

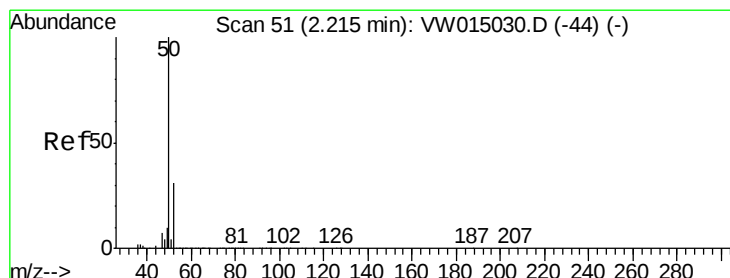
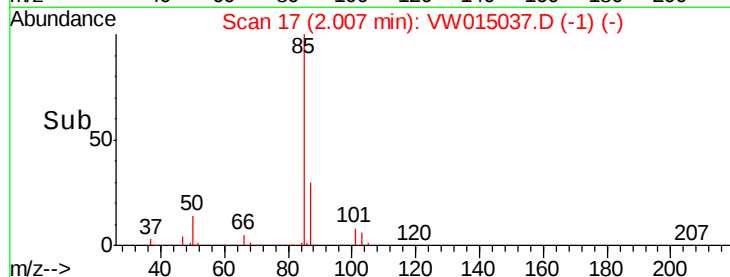
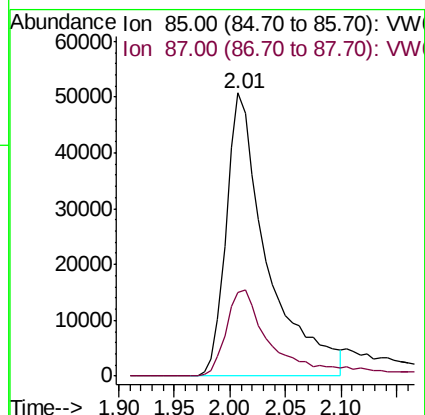
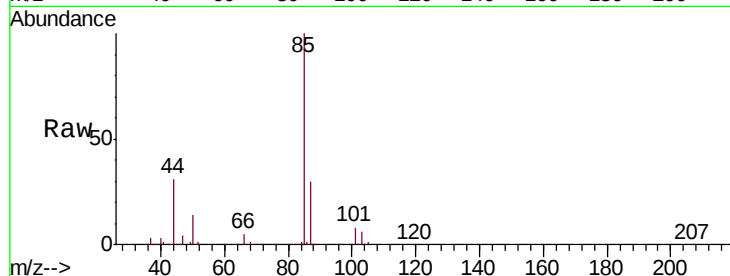
VSTD02528

Tgt Ion: 85 Resp: 129621

Ion Ratio Lower Upper

85 100

87 30.1 22.0 41.0



#3

Chloromethane

Concen: 20.395 ug/L

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW015037.D

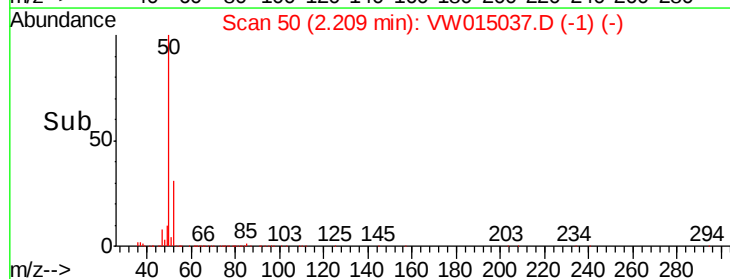
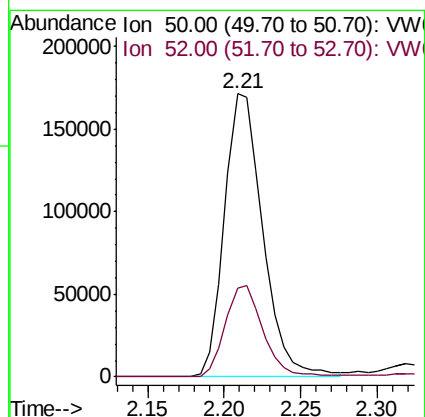
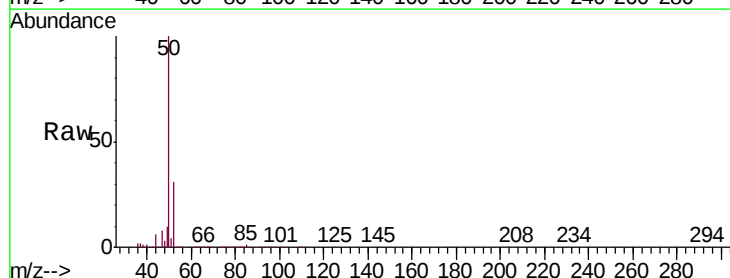
Acq: 25 Feb 2020 16:47

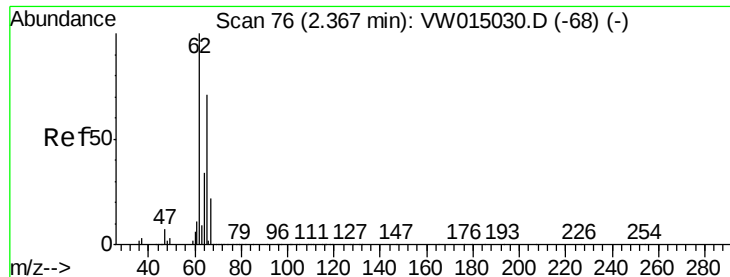
Tgt Ion: 50 Resp: 296979

Ion Ratio Lower Upper

50 100

52 31.3 22.3 41.5





#5

Vinyl chloride

Concen: 21.948 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW015037.D

Acq: 25 Feb 2020 16:47

Instrument :

MSVOA_W

ClientSampleId :

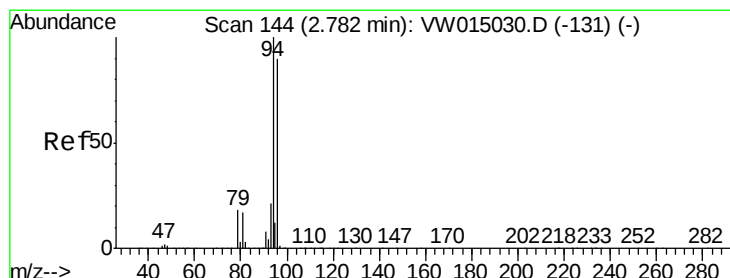
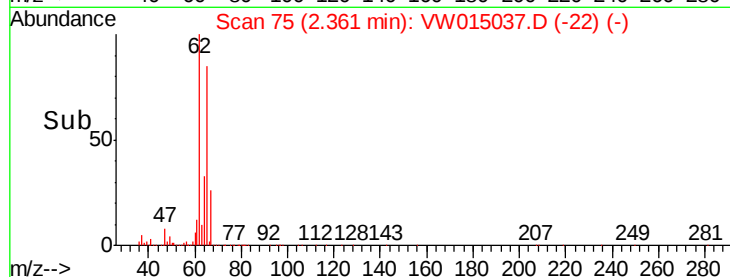
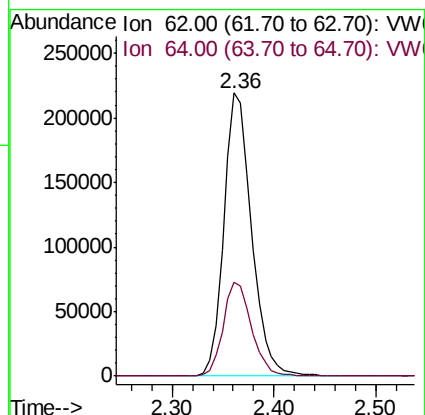
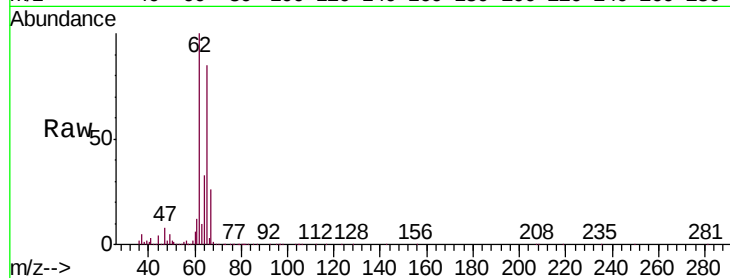
VSTD02528

Tgt Ion: 62 Resp: 413495

Ion Ratio Lower Upper

62 100

64 33.0 23.0 42.8



#6

Bromomethane

Concen: 21.753 ug/L

RT: 2.78 min Scan# 143

Delta R.T. -0.01 min

Lab File: VW015037.D

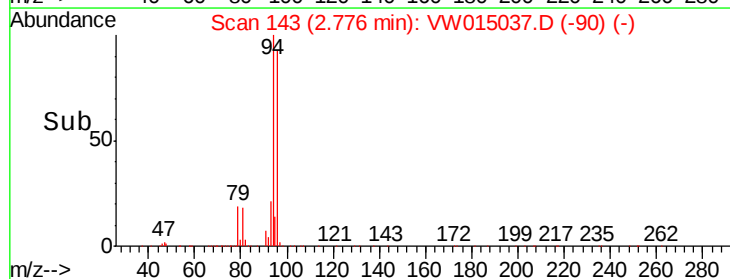
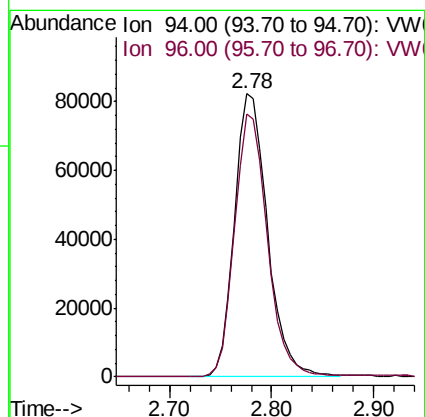
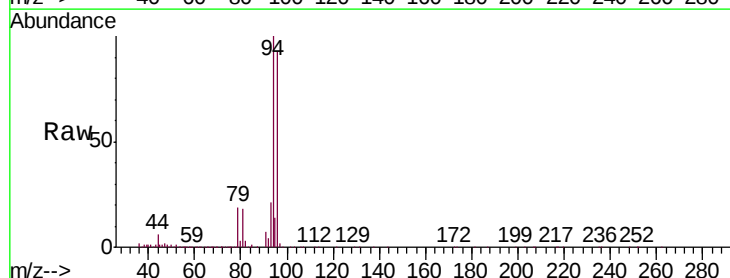
Acq: 25 Feb 2020 16:47

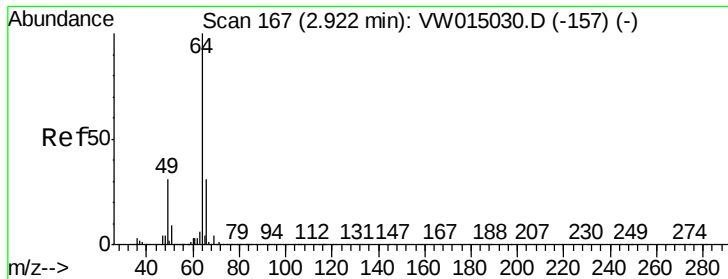
Tgt Ion: 94 Resp: 183977

Ion Ratio Lower Upper

94 100

96 92.7 9.5 179.7





#8

Chloroethane

Concen: 22.341 ug/L

RT: 2.93 min Scan# 168

Delta R.T. 0.01 min

Lab File: VW015037.D

Acq: 25 Feb 2020 16:47

Instrument :

MSVOA_W

ClientSampleId :

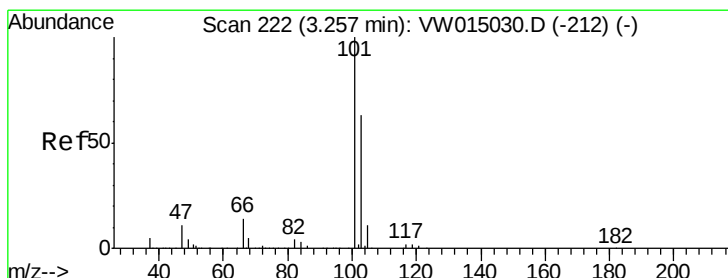
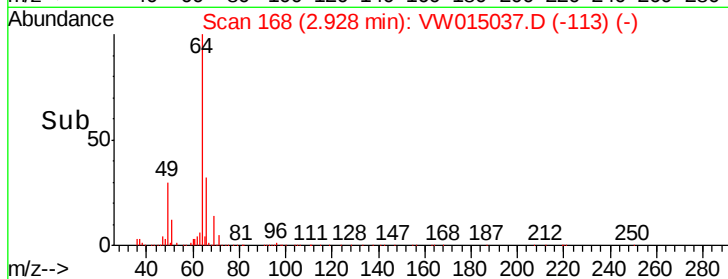
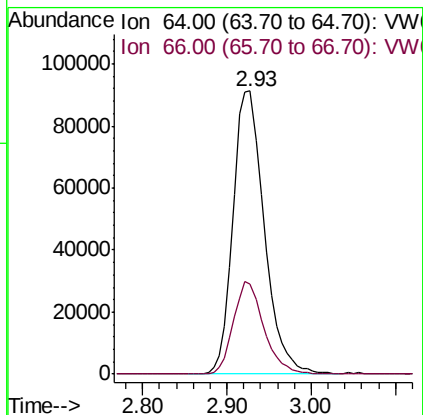
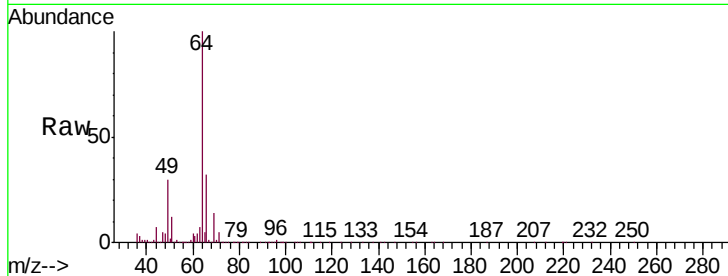
VSTD02528

Tgt Ion: 64 Resp: 229021

Ion Ratio Lower Upper

64 100

66 31.8 21.2 39.4



#9

Trichlorofluoromethane

Concen: 21.237 ug/L

RT: 3.26 min Scan# 222

Delta R.T. 0.00 min

Lab File: VW015037.D

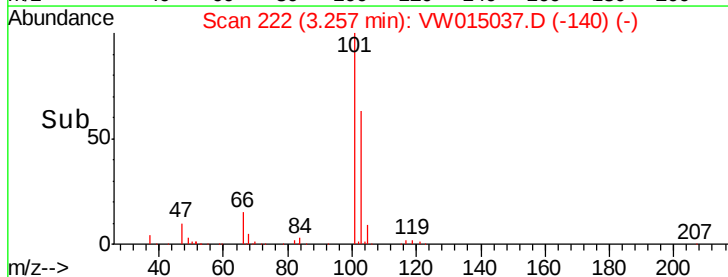
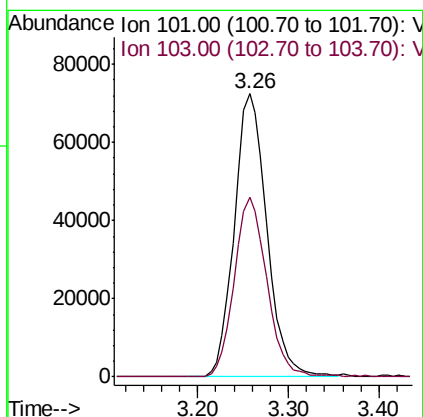
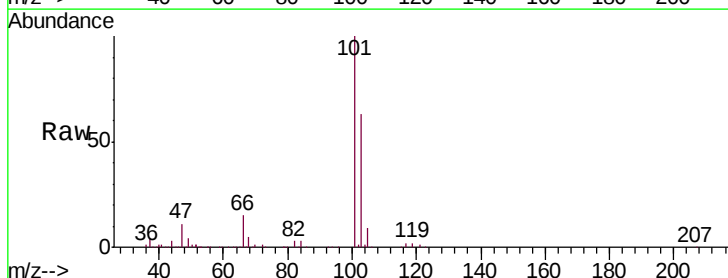
Acq: 25 Feb 2020 16:47

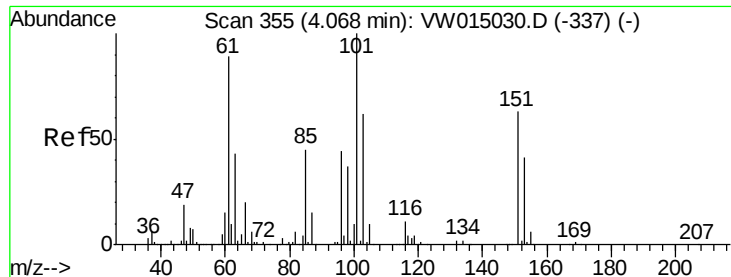
Tgt Ion: 101 Resp: 180315

Ion Ratio Lower Upper

101 100

103 63.0 44.9 83.5





#11

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

Concen: 23.582 ug/L

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

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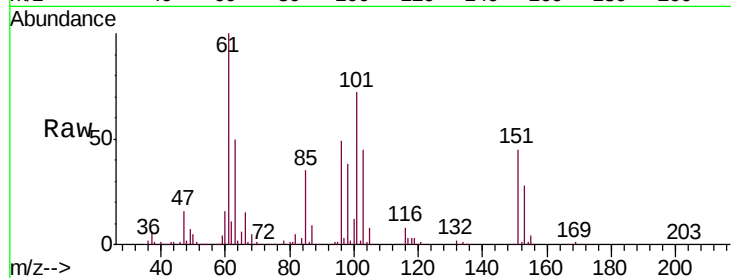
Tgt Ion:101 Resp: 275769

Ion Ratio Lower Upper

101 100

85 46.5 37.8 56.8

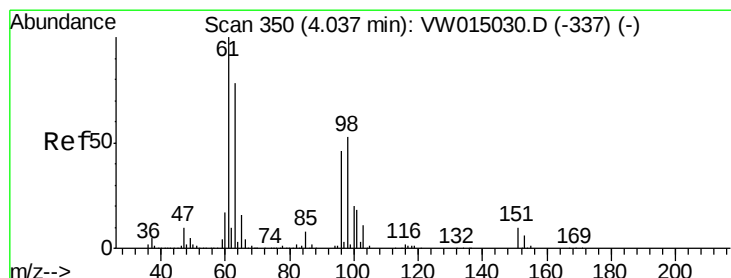
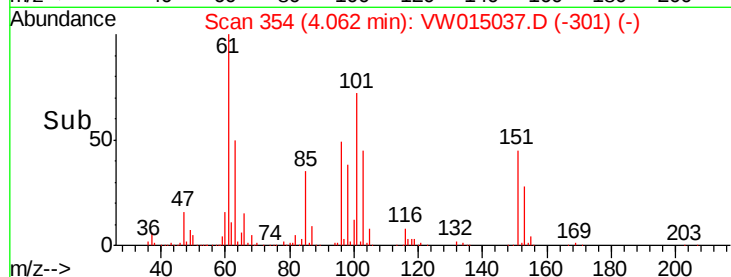
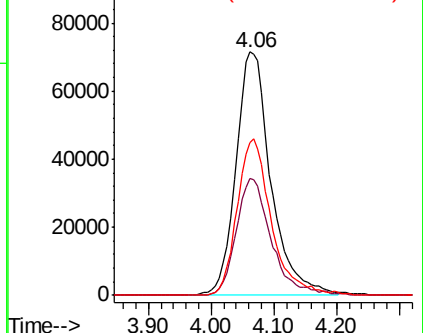
151 62.4 50.3 75.5



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: 23.814 ug/L

RT: 4.04 min Scan# 351

Delta R.T. 0.01 min

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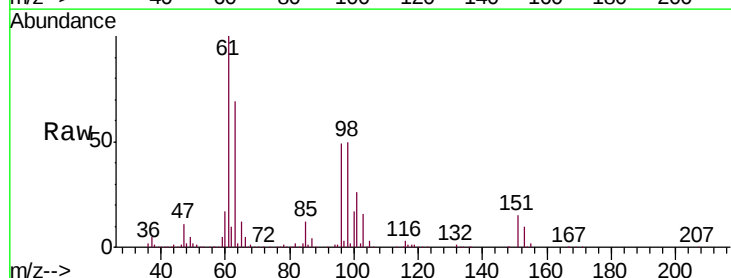
Tgt Ion: 96 Resp: 265127

Ion Ratio Lower Upper

96 100

61 206.0 138.5 257.1

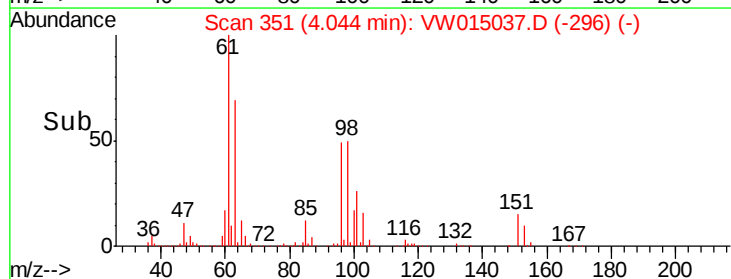
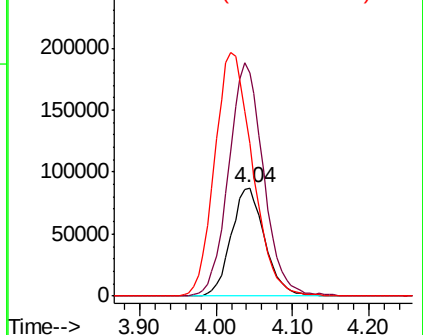
63 141.6 93.4 173.6

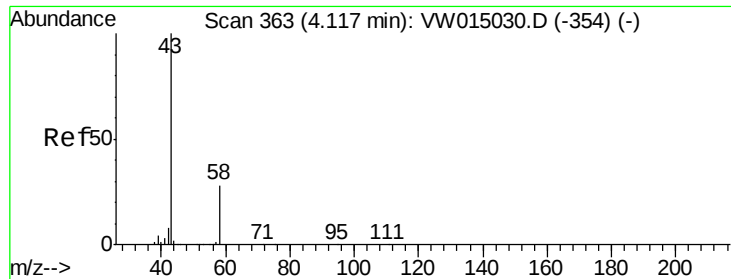


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 48.000 ug/L

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

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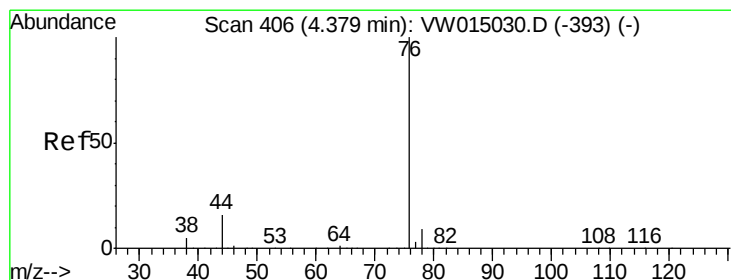
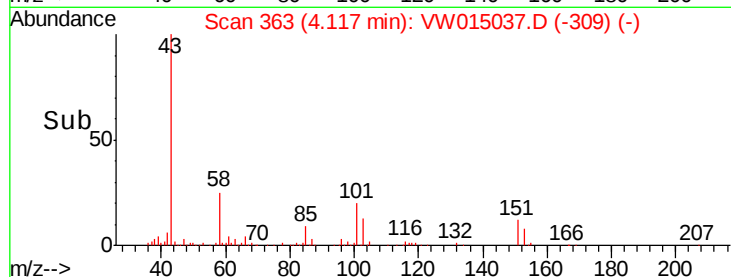
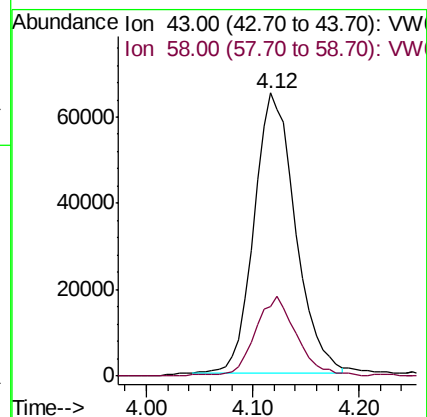
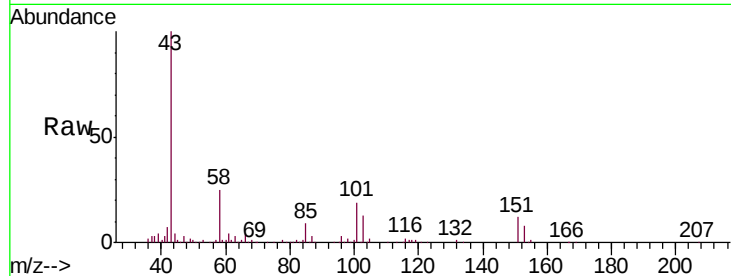
VSTD02528

Tgt Ion: 43 Resp: 176699

Ion Ratio Lower Upper

43 100

58 28.0 0.0 54.0



#14

Carbon disulfide

Concen: 22.814 ug/L

RT: 4.39 min Scan# 407

Delta R.T. 0.01 min

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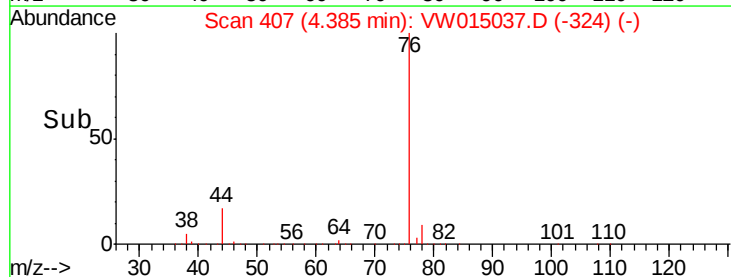
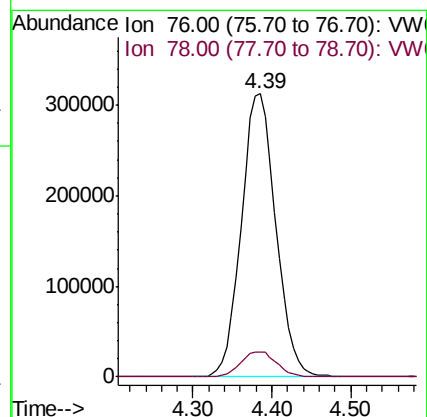
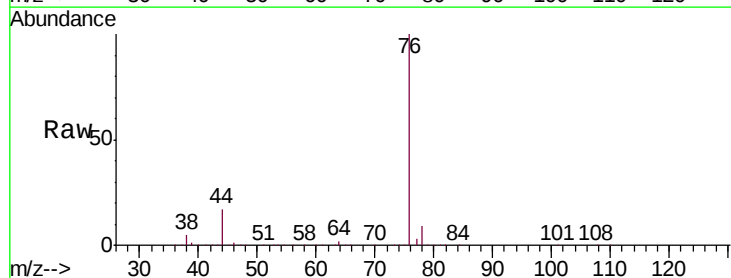
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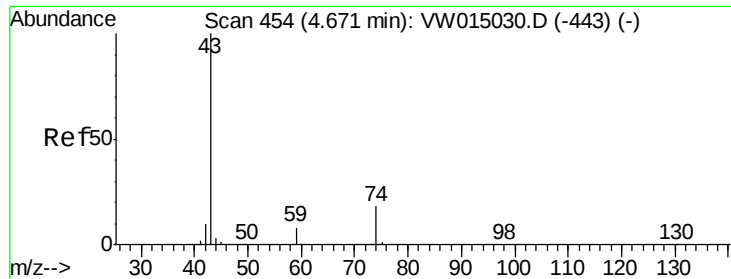
Tgt Ion: 76 Resp: 950487

Ion Ratio Lower Upper

76 100

78 8.8 7.2 10.8

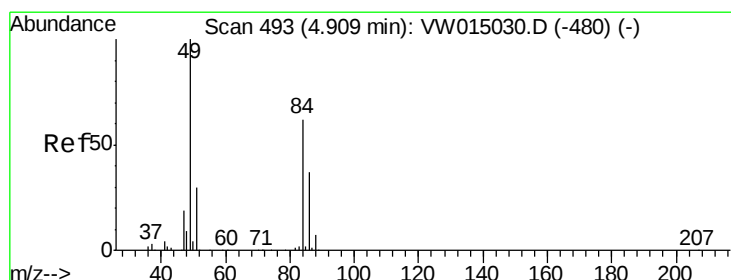
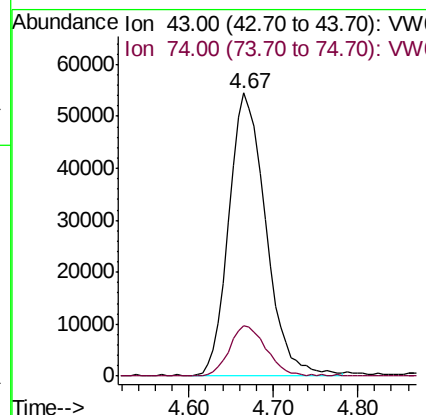
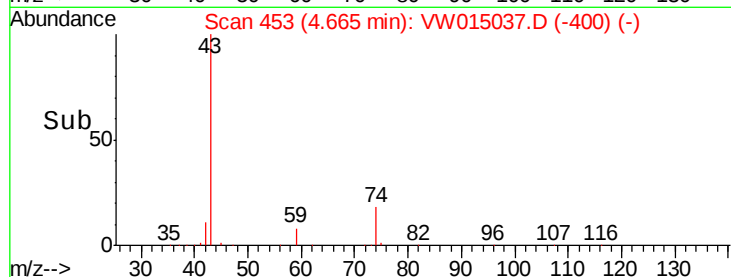
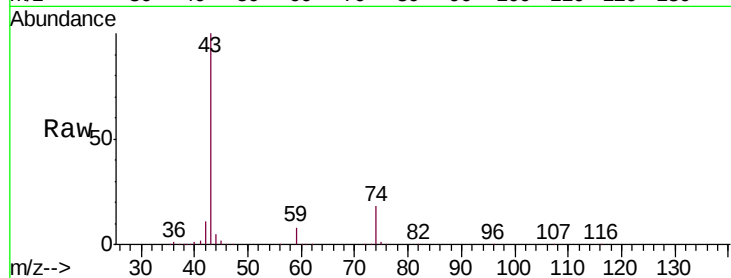




#15
Methyl Acetate
Concen: 26.225 ug/L
RT: 4.67 min Scan# 453
Delta R.T. -0.01 min
Lab File: VW015037.D
Acq: 25 Feb 2020 16:47

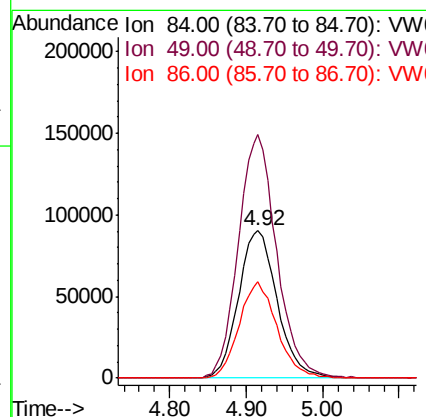
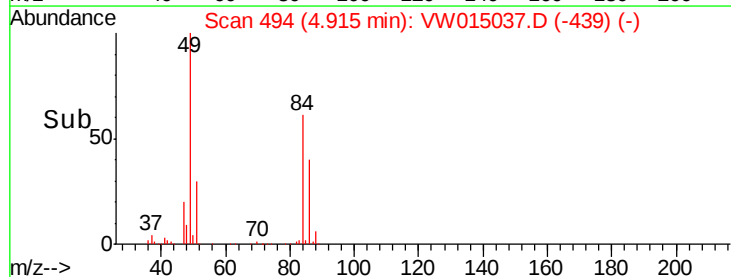
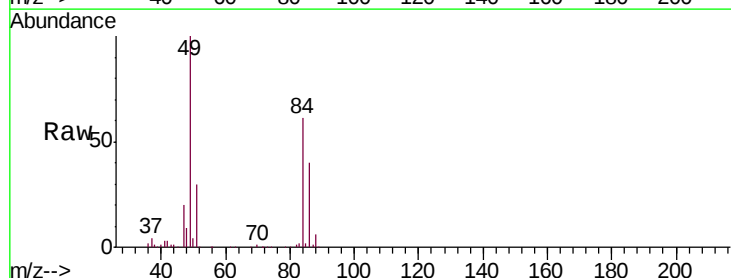
Instrument :
MSVOA_W
ClientSampleId :
VSTD02528

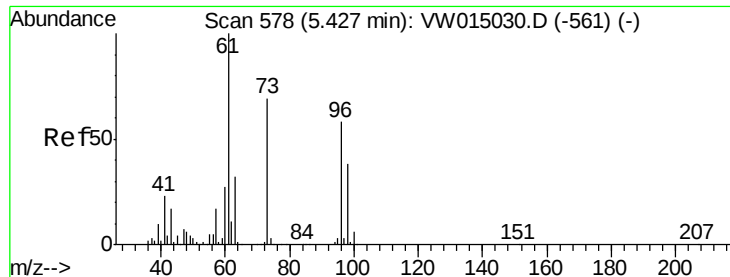
Tgt Ion: 43 Resp: 162561
Ion Ratio Lower Upper
43 100
74 17.8 14.5 21.7



#16
Methylene chloride
Concen: 23.059 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW015037.D
Acq: 25 Feb 2020 16:47

Tgt Ion: 84 Resp: 317728
Ion Ratio Lower Upper
84 100
49 165.0 115.6 214.8
86 65.5 45.9 85.3

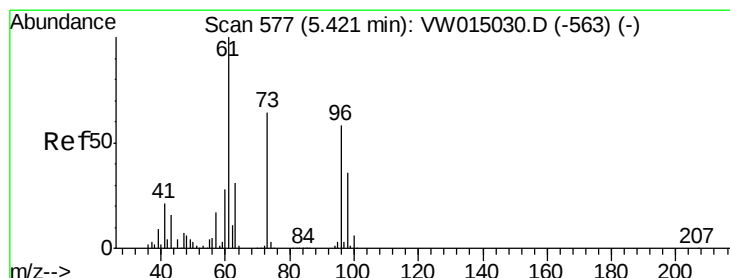
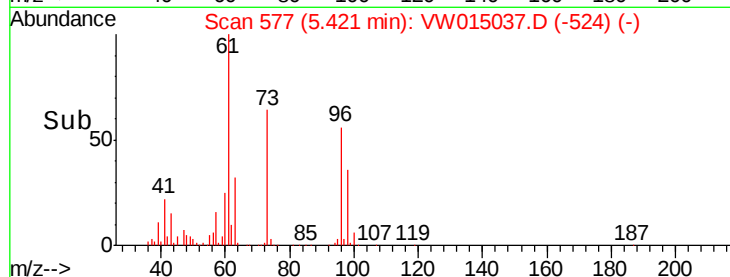
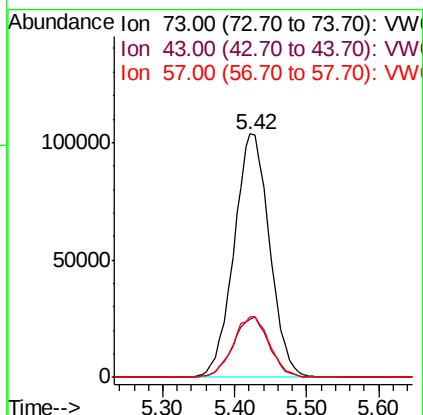
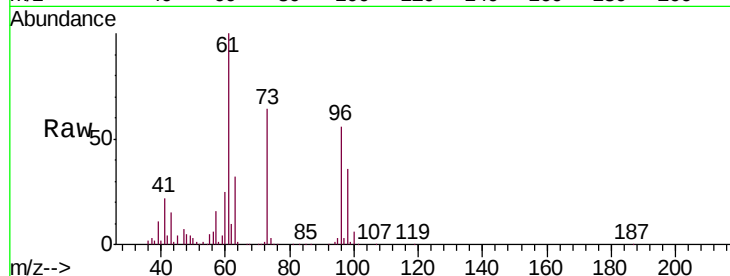




#17
Methyl tert-butyl Ether
Concen: 26.361 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.01 min
Lab File: VW015037.D
Acq: 25 Feb 2020 16:47

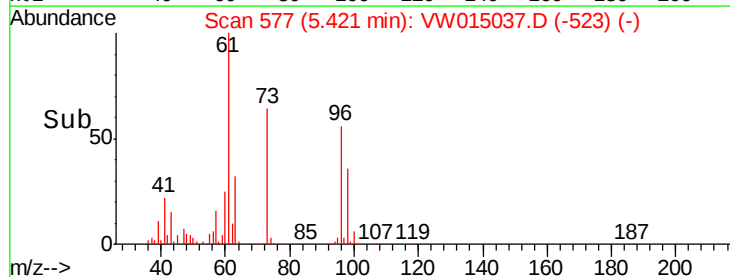
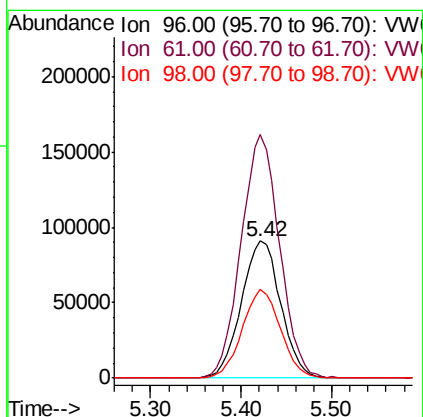
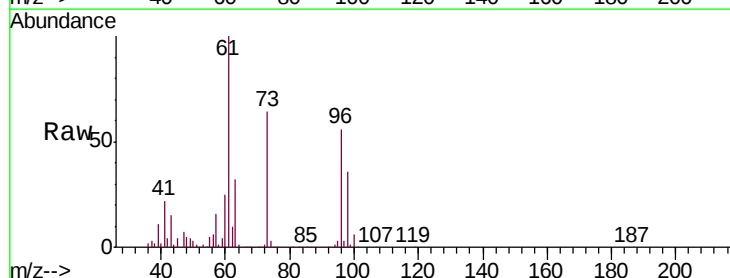
Instrument :
MSVOA_W
ClientSampled :
VSTD02528

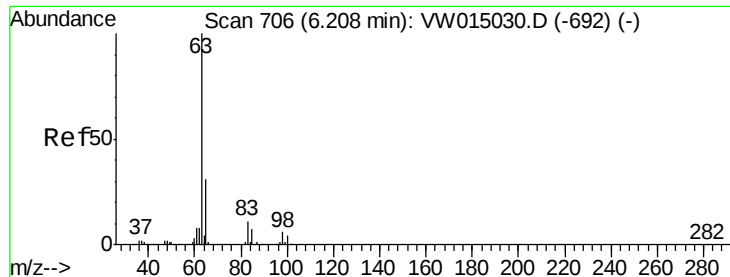
Tgt Ion: 73 Resp: 355247
Ion Ratio Lower Upper
73 100
43 24.4 19.7 29.5
57 25.7 20.4 30.6



#18
trans-1,2-Dichloroethene
Concen: 23.752 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW015037.D
Acq: 25 Feb 2020 16:47

Tgt Ion: 96 Resp: 273207
Ion Ratio Lower Upper
96 100
61 177.6 115.1 213.8
98 64.8 44.0 81.6





#19

1,1-Dichloroethane

Concen: 24.120 ug/L

RT: 6.21 min Scan# 707

Delta R.T. 0.01 min

Lab File: VW015037.D

Acq: 25 Feb 2020 16:47

Instrument :

MSVOA_W

ClientSampleId :

VSTD02528

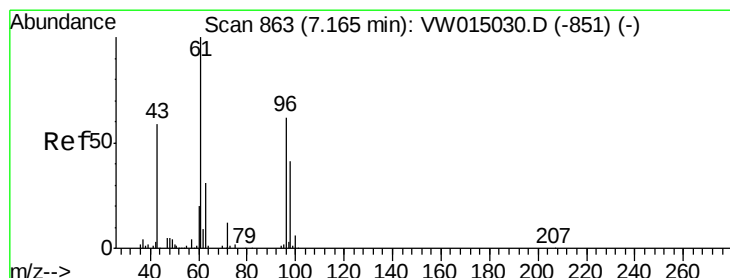
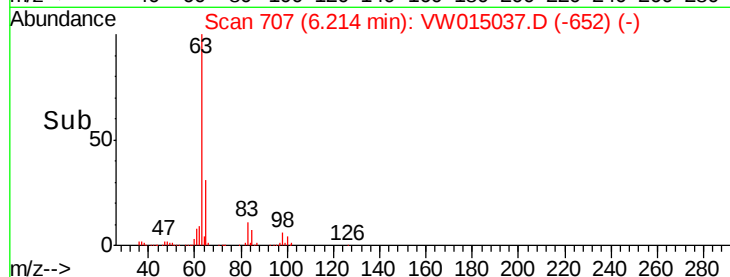
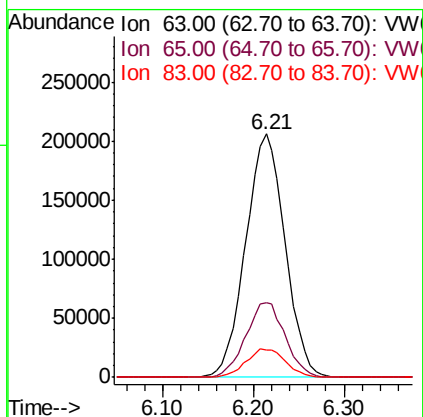
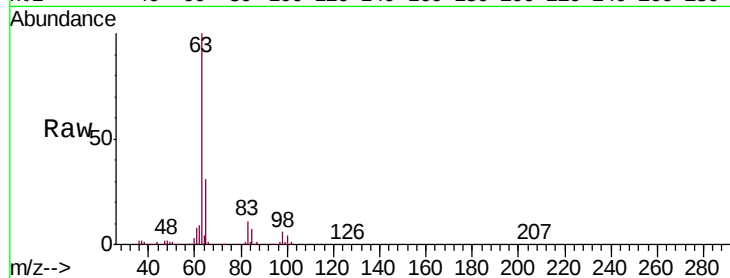
Tgt Ion: 63 Resp: 618780

Ion Ratio Lower Upper

63 100

65 30.9 21.9 40.7

83 11.3 7.8 14.6



#21

2-Butanone

Concen: 52.481 ug/L

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW015037.D

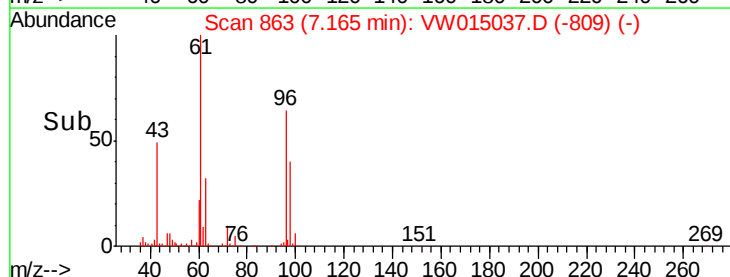
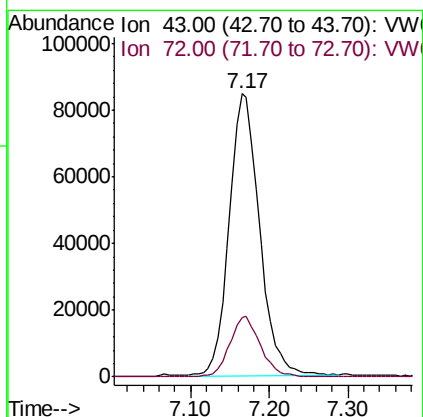
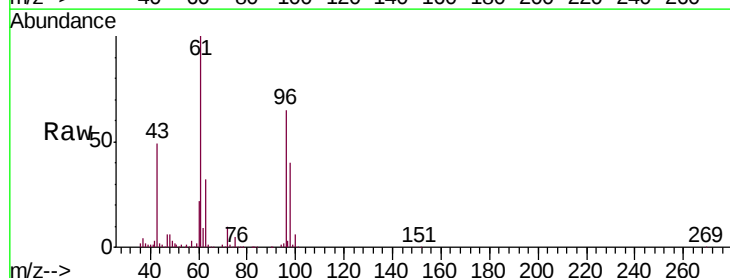
Acq: 25 Feb 2020 16:47

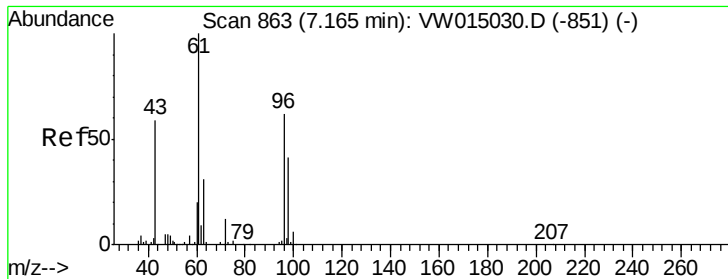
Tgt Ion: 43 Resp: 227180

Ion Ratio Lower Upper

43 100

72 21.6 10.4 31.4



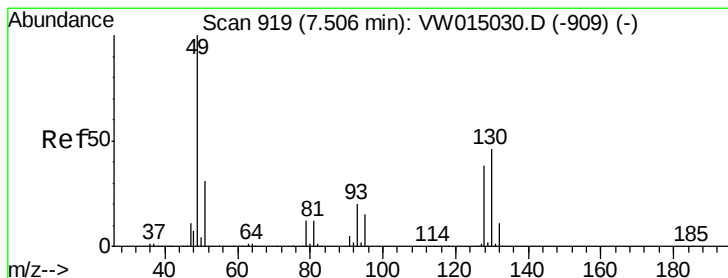
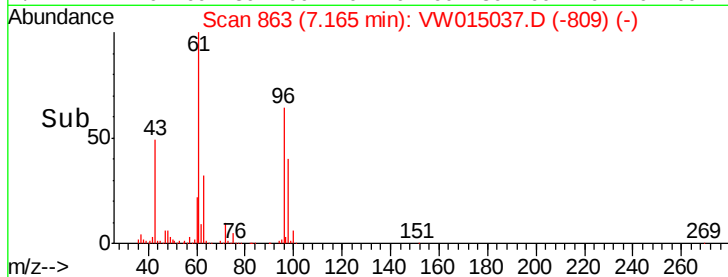
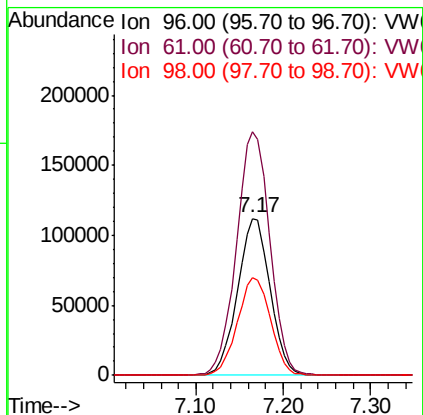
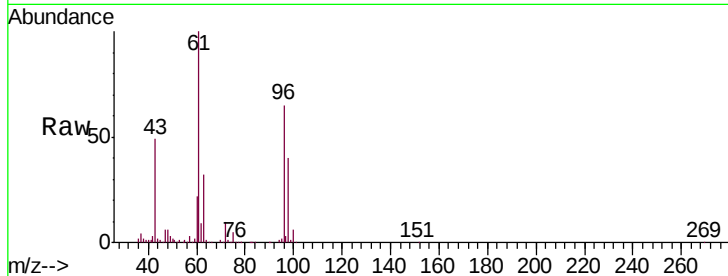


#22

cis-1,2-Dichloroethene
 Concen: 24.755 ug/L
 RT: 7.17 min Scan# 863
 Delta R.T. 0.00 min
 Lab File: VW015037.D
 Acq: 25 Feb 2020 16:47

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02528

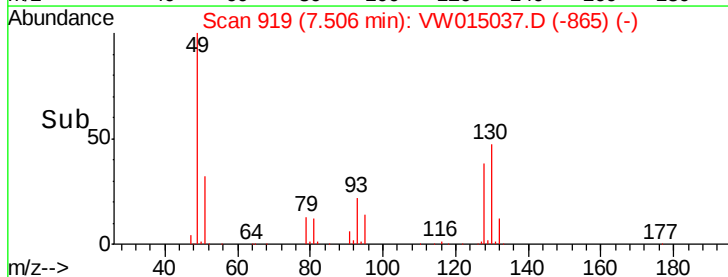
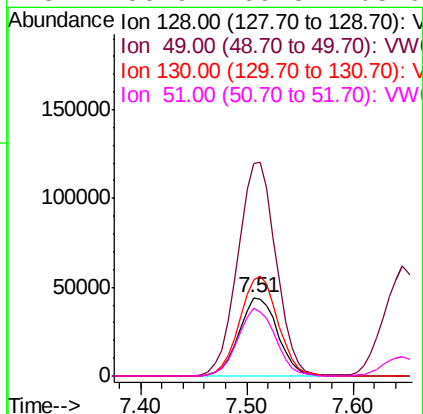
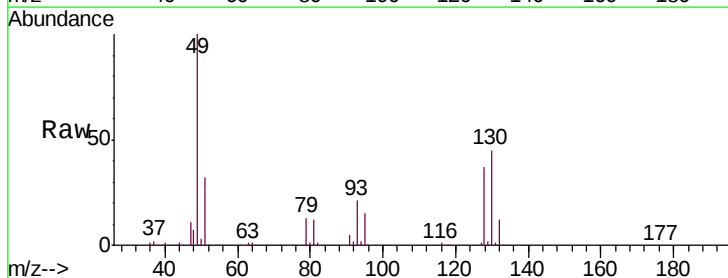
Tgt Ion	Resp	Lower	Upper
96	289779		
61	100		
61	155.0	105.2	195.4
98	62.3	42.6	79.2

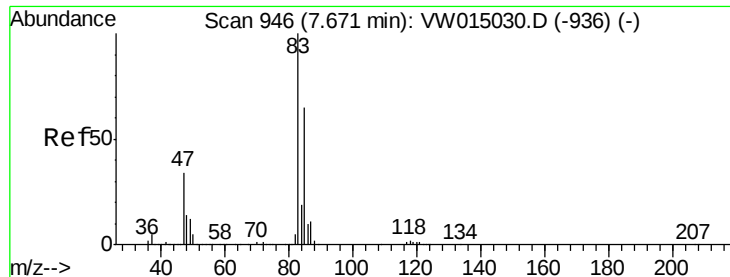


#23

Bromochloromethane
 Concen: 24.659 ug/L
 RT: 7.51 min Scan# 919
 Delta R.T. 0.00 min
 Lab File: VW015037.D
 Acq: 25 Feb 2020 16:47

Tgt Ion	Resp	Lower	Upper
128	112288		
128	100		
49	270.9	192.7	357.9
130	122.1	92.7	172.1
51	86.9	69.3	103.9





#25

Chloroform

Concen: 23.728 ug/L

RT: 7.67 min Scan# 946

Delta R.T. 0.00 min

Lab File: VW015037.D

Acq: 25 Feb 2020 16:47

Instrument :

MSVOA_W

ClientSampleId :

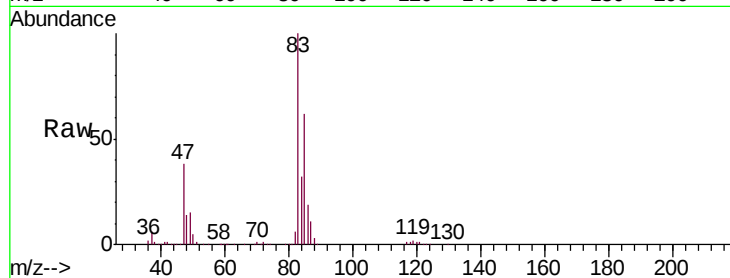
VSTD02528

Tgt Ion: 83 Resp: 552427

Ion Ratio Lower Upper

83 100

85 65.1 44.9 83.5



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

7.67

250000

200000

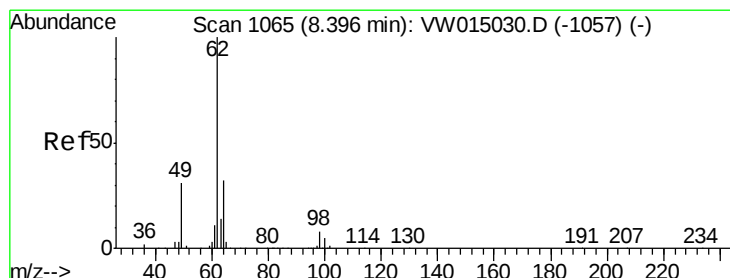
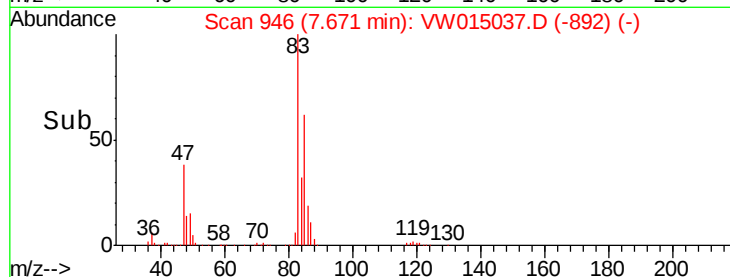
150000

100000

50000

0

Time-->



#27

1,2-Dichloroethane

Concen: 25.108 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VW015037.D

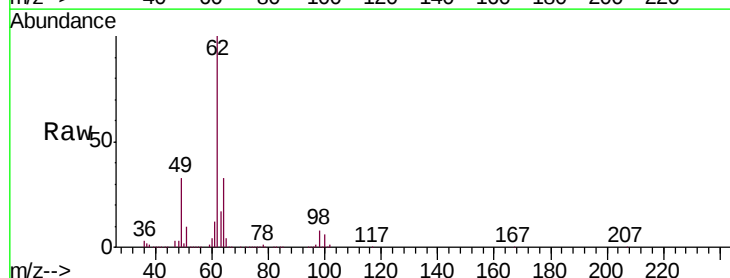
Acq: 25 Feb 2020 16:47

Tgt Ion: 62 Resp: 399955

Ion Ratio Lower Upper

62 100

98 8.4 6.5 9.7



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 98.00 (97.70 to 98.70): VW

8.40

200000

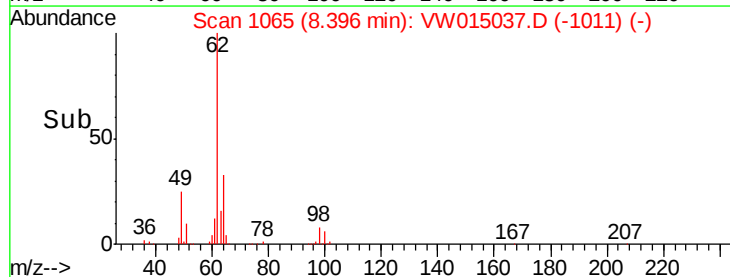
150000

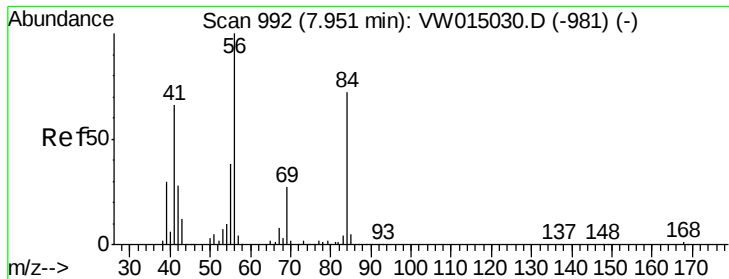
100000

50000

0

Time-->

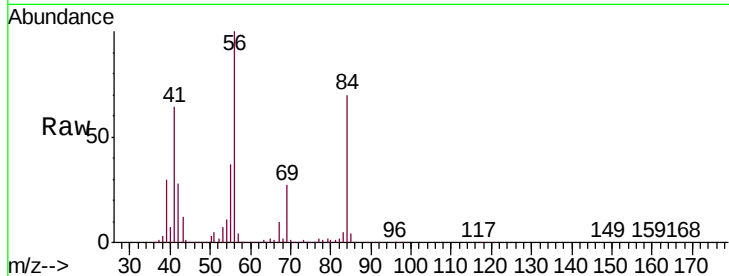




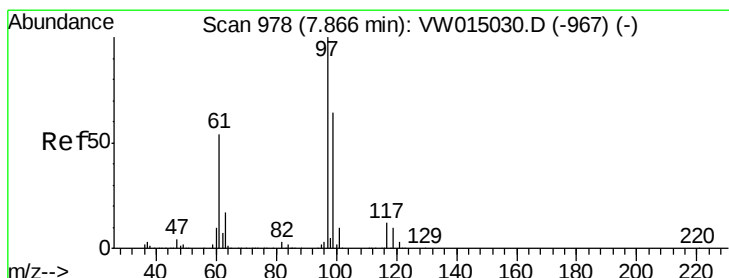
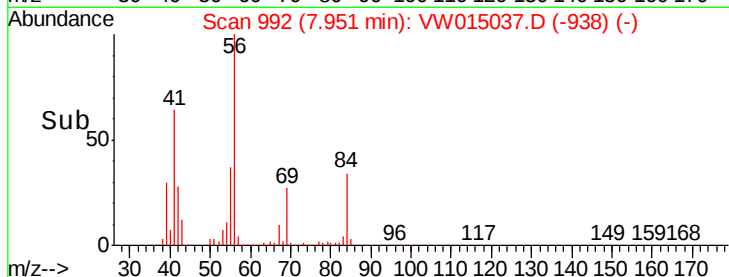
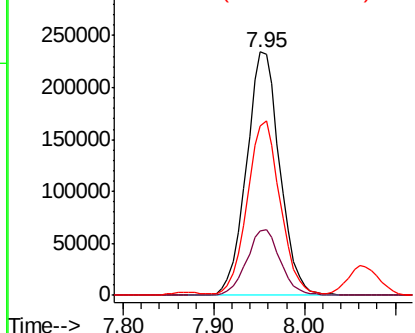
#30
Cyclohexane
Concen: 25.926 ug/L
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW015037.D
Acq: 25 Feb 2020 16:47

Instrument :
MSVOA_W
ClientSampleId :
VSTD02528

Tgt Ion: 56 Resp: 596481
Ion Ratio Lower Upper
56 100
69 27.1 21.8 32.6
84 70.7 57.3 85.9

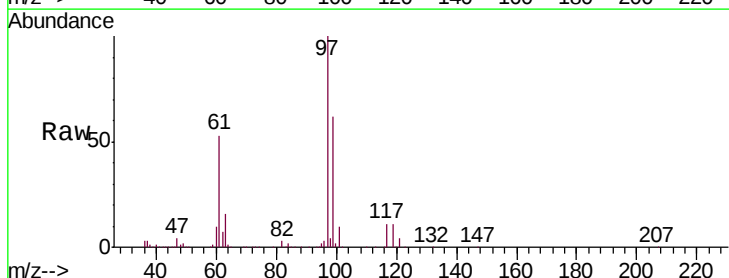


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

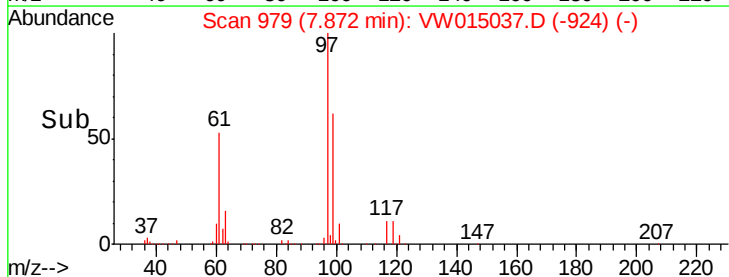
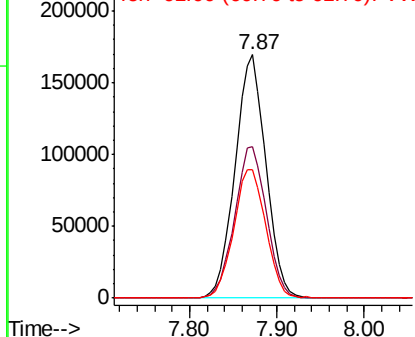


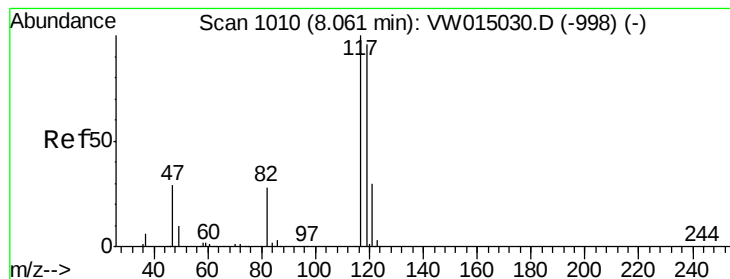
#31
1,1,1-Trichloroethane
Concen: 23.369 ug/L
RT: 7.87 min Scan# 979
Delta R.T. 0.01 min
Lab File: VW015037.D
Acq: 25 Feb 2020 16:47

Tgt Ion: 97 Resp: 414730
Ion Ratio Lower Upper
97 100
99 64.3 50.6 76.0
61 55.1 43.1 64.7



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: 23.564 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.01 min

Lab File: VW015037.D

Acq: 25 Feb 2020 16:47

Instrument :

MSVOA_W

ClientSampleId :

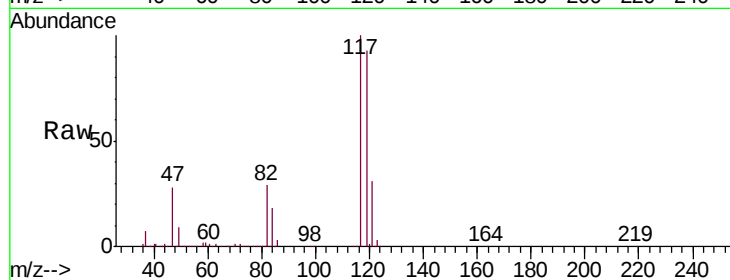
VSTD02528

Tgt Ion:117 Resp: 374740

Ion Ratio Lower Upper

117 100

119 94.3 76.3 114.5



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

8.07

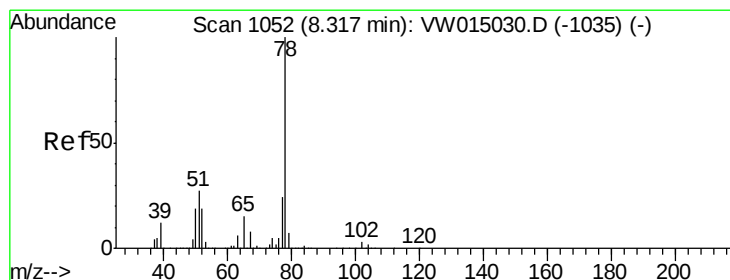
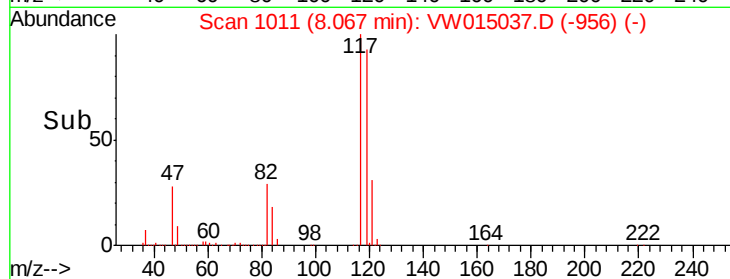
150000

100000

50000

0

Time-->



#34

Benzene

Concen: 25.111 ug/L

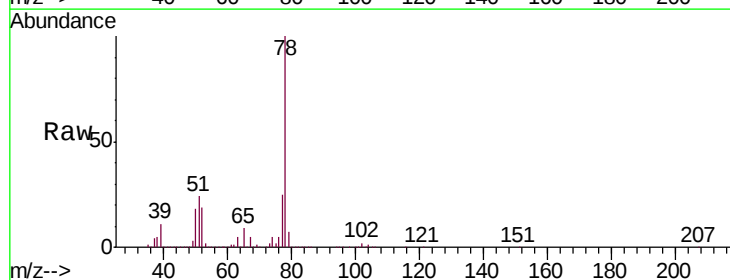
RT: 8.32 min Scan# 1053

Delta R.T. 0.01 min

Lab File: VW015037.D

Acq: 25 Feb 2020 16:47

Tgt Ion: 78 Resp: 1285382



Abundance Ion 78.00 (77.70 to 78.70): VW

8.32

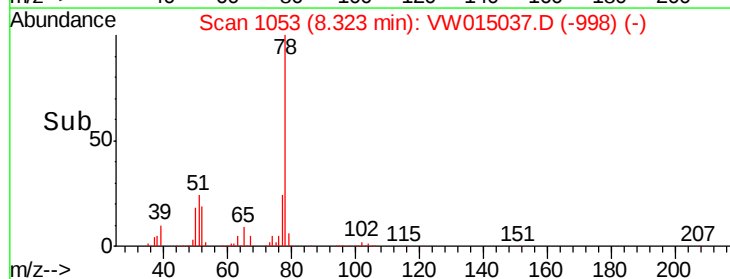
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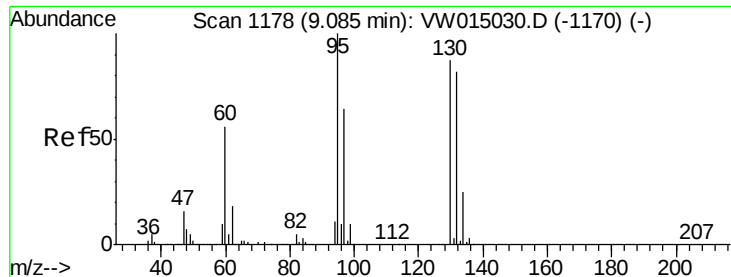
400000

200000

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Time-->

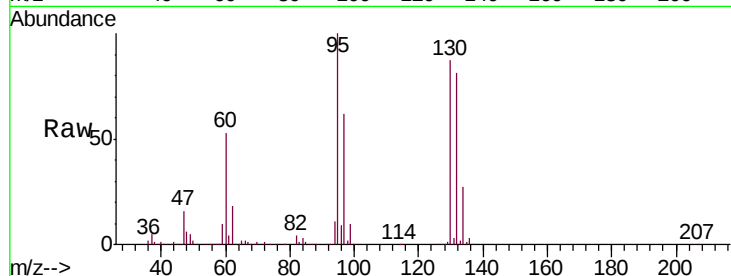




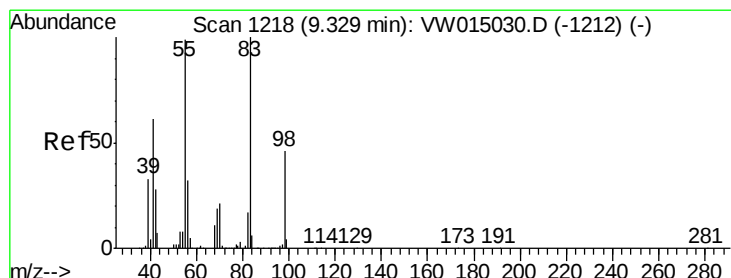
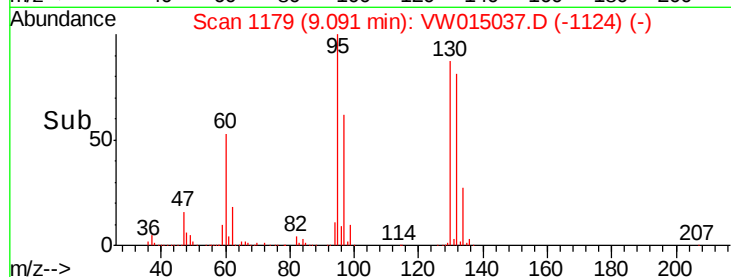
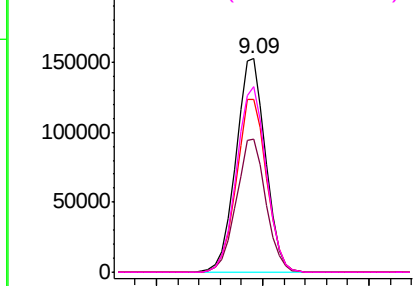
#35
Trichloroethene
Concen: 24.082 ug/L
RT: 9.09 min Scan# 1179
Delta R.T. 0.01 min
Lab File: VW015037.D
Acq: 25 Feb 2020 16:47

Instrument :
MSVOA_W
ClientSampleId :
VSTD02528

Tgt Ion:	95	Resp:	298194
Ion	Ratio	Lower	Upper
95	100		
97	62.4	44.7	83.1
132	82.5	58.1	107.9
130	87.1	62.0	115.2

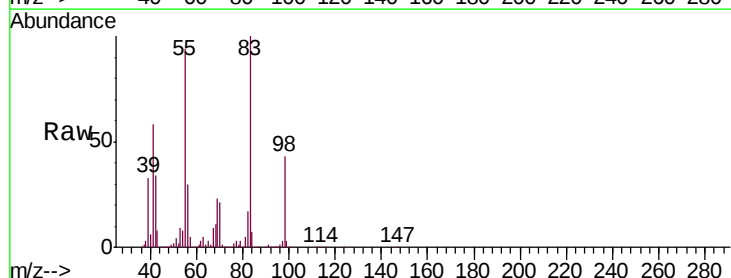


Abundance Ion 95.00 (94.70 to 95.70): VW
Ion 97.00 (96.70 to 97.70): VW
Ion 132.00 (131.70 to 132.70): V
Ion 130.00 (129.70 to 130.70): V

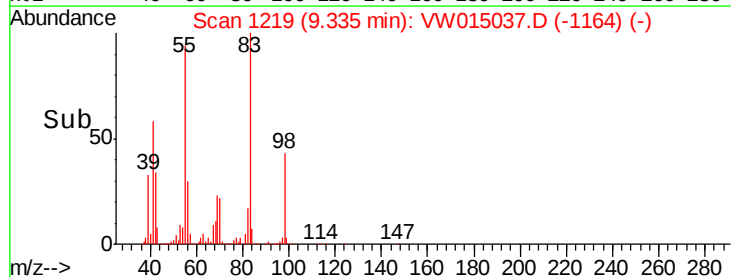
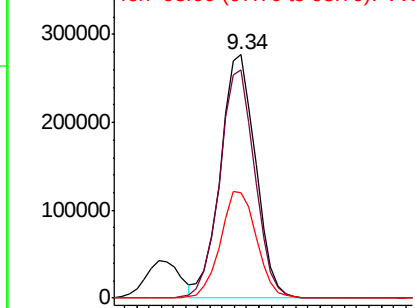


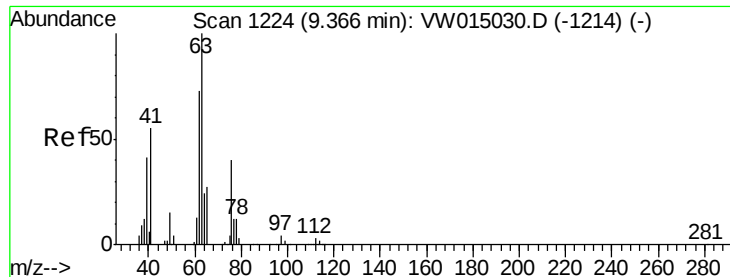
#36
Methylcyclohexane
Concen: 25.979 ug/L
RT: 9.34 min Scan# 1219
Delta R.T. 0.01 min
Lab File: VW015037.D
Acq: 25 Feb 2020 16:47

Tgt Ion:	83	Resp:	552388
Ion	Ratio	Lower	Upper
83	100		
55	93.6	76.6	115.0
98	44.8	36.6	54.8



Abundance Ion 83.00 (82.70 to 83.70): VW
Ion 55.00 (54.70 to 55.70): VW
Ion 98.00 (97.70 to 98.70): VW

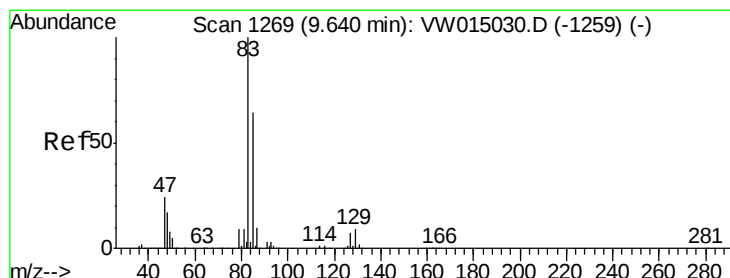
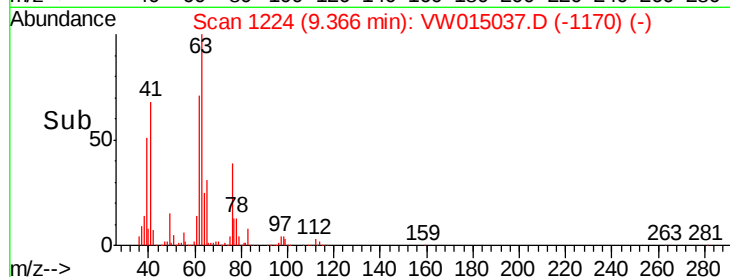
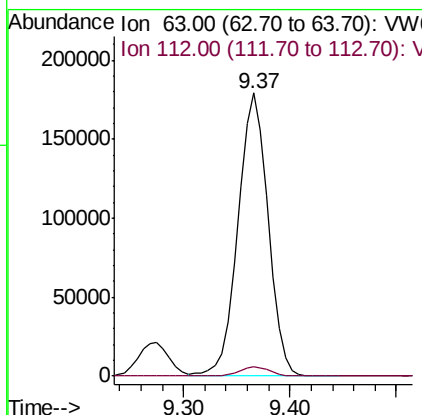
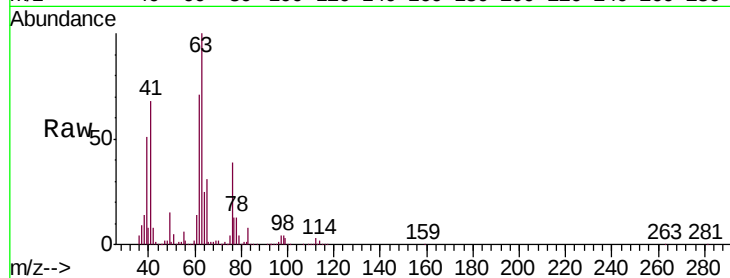




#40
 1,2-Dichloropropane
 Concen: 25.071 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. 0.00 min
 Lab File: VW015037.D
 Acq: 25 Feb 2020 16:47

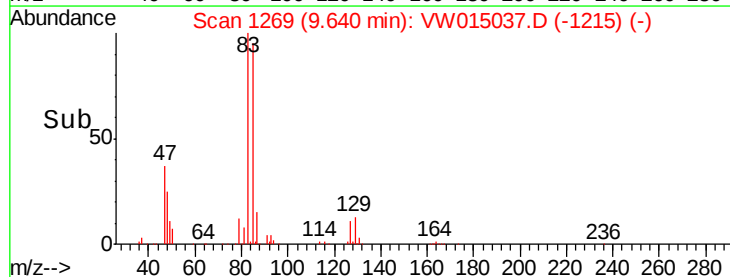
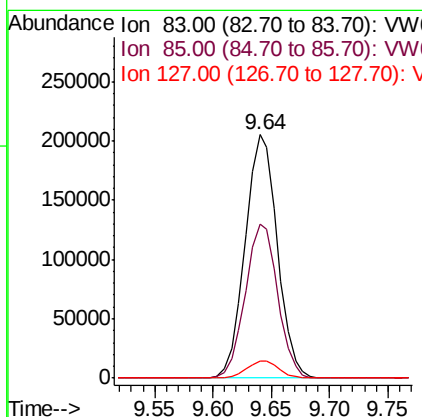
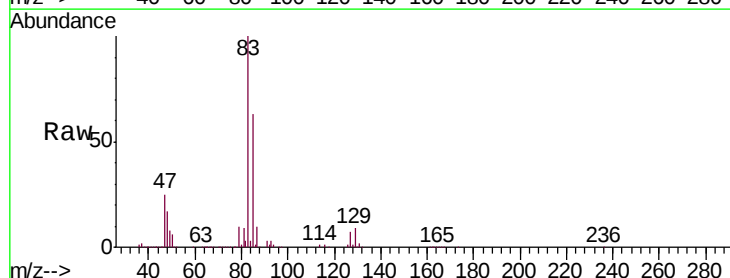
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02528

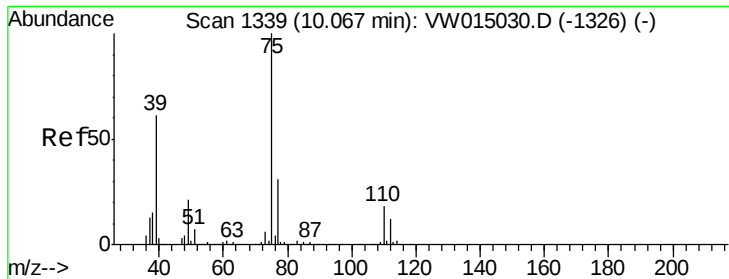
Tgt Ion: 63 Resp: 356441
 Ion Ratio Lower Upper
 63 100
 112 3.4 2.8 4.2



#41
 Bromodichloromethane
 Concen: 24.770 ug/L
 RT: 9.64 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VW015037.D
 Acq: 25 Feb 2020 16:47

Tgt Ion: 83 Resp: 395013
 Ion Ratio Lower Upper
 83 100
 85 63.2 44.7 83.1
 127 7.2 5.4 8.0





#42

cis-1,3-Dichloropropene

Concen: 26.325 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.01 min

Lab File: VW015037.D

Acq: 25 Feb 2020 16:47

Instrument :

MSVOA_W

ClientSampleId :

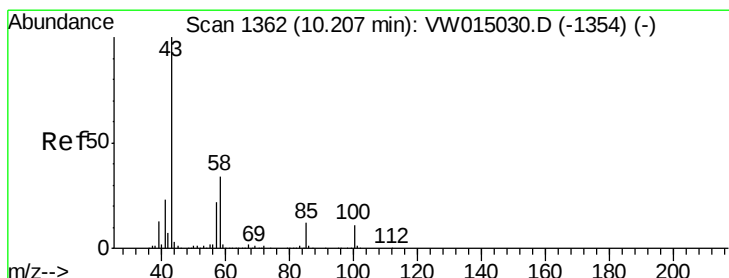
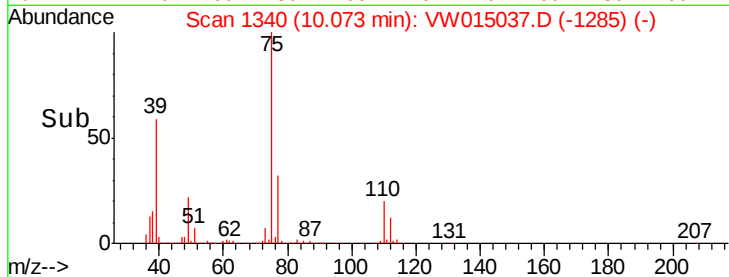
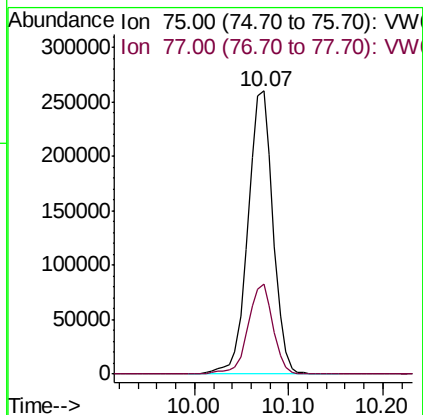
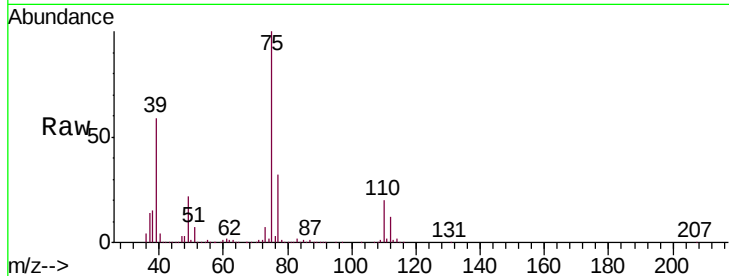
VSTD02528

Tgt Ion: 75 Resp: 487701

Ion Ratio Lower Upper

75 100

77 31.7 21.9 40.7



#43

4-Methyl-2-pentanone

Concen: 55.582 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW015037.D

Acq: 25 Feb 2020 16:47

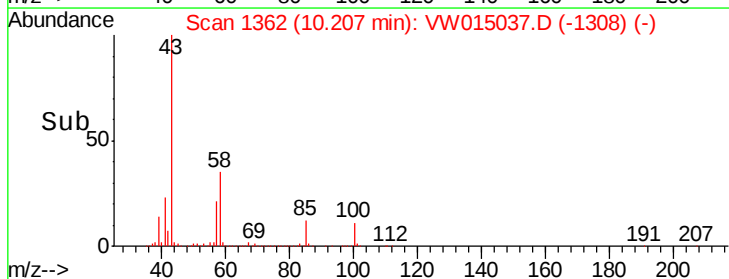
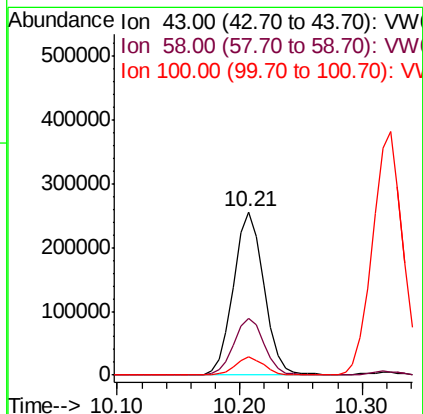
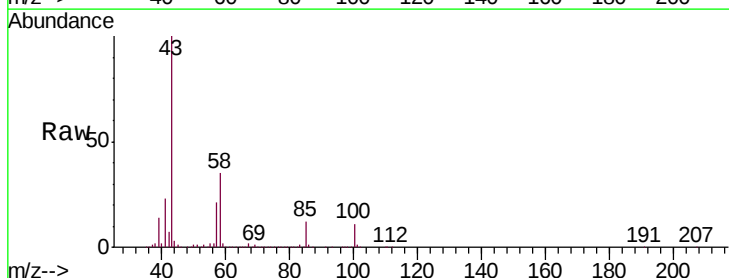
Tgt Ion: 43 Resp: 441978

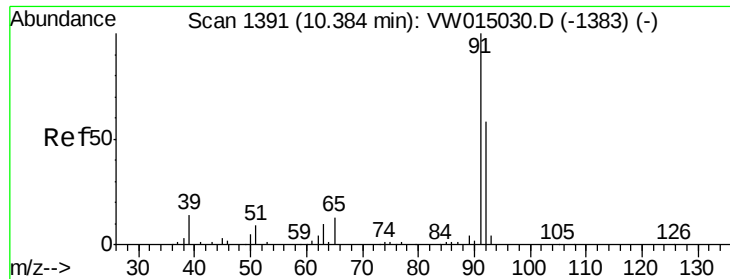
Ion Ratio Lower Upper

43 100

58 34.6 27.6 41.4

100 10.4 8.6 13.0





#44

Toluene

Concen: 25.786 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW015037.D

Acq: 25 Feb 2020 16:47

Instrument :

MSVOA_W

ClientSampleId :

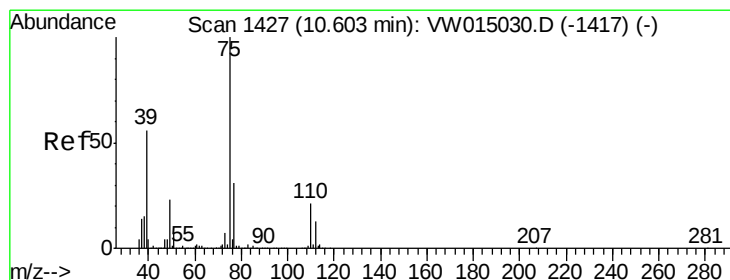
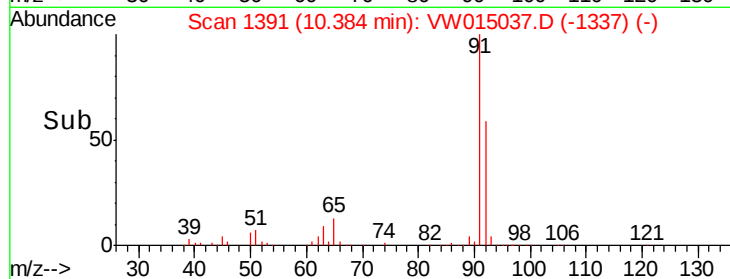
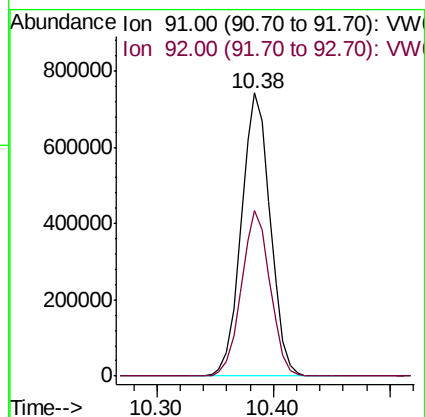
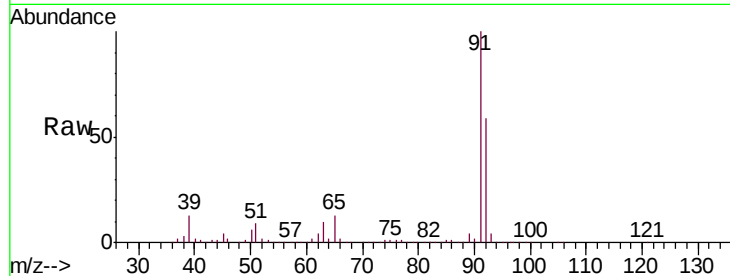
VSTD02528

Tgt Ion: 91 Resp: 1281919

Ion Ratio Lower Upper

91 100

92 58.7 40.5 75.1



#45

trans-1,3-Dichloropropene

Concen: 26.059 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW015037.D

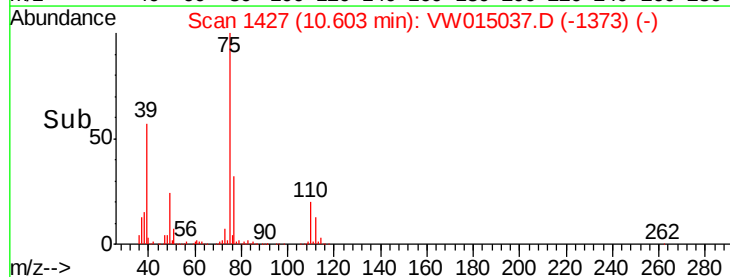
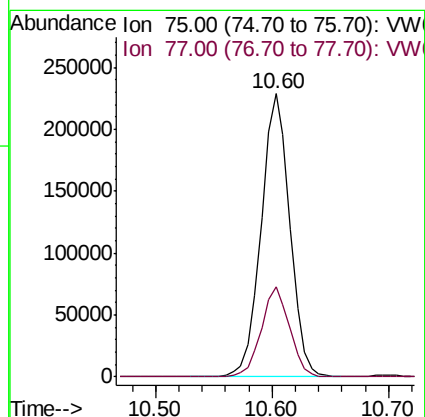
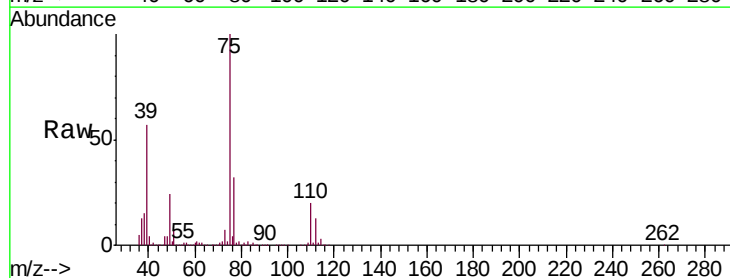
Acq: 25 Feb 2020 16:47

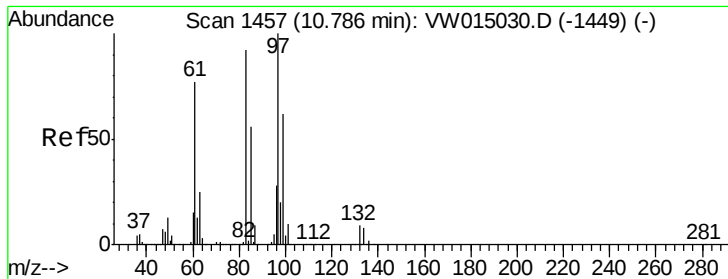
Tgt Ion: 75 Resp: 390195

Ion Ratio Lower Upper

75 100

77 31.7 21.6 40.2





#46

1,1,2-Trichloroethane

Concen: 25.050 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW015037.D

Acq: 25 Feb 2020 16:47

Instrument :

MSVOA_W

ClientSampleId :

VSTD02528

Tgt Ion: 97 Resp: 200412

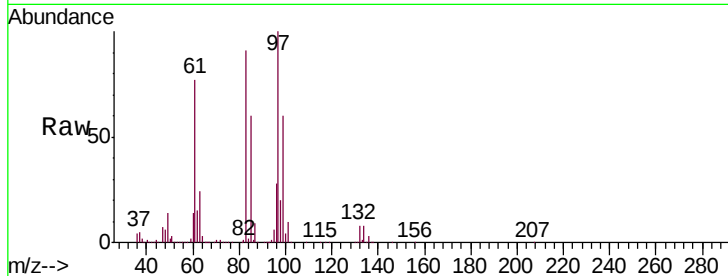
Ion Ratio Lower Upper

97 100

83 91.3 64.4 119.6

85 59.8 40.9 75.9

99 59.8 44.1 81.9

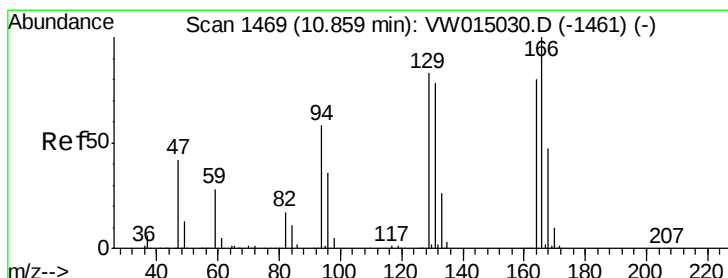
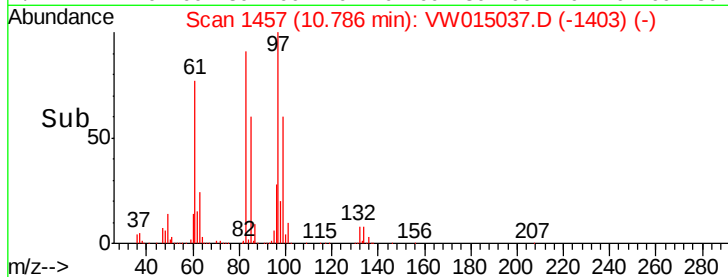
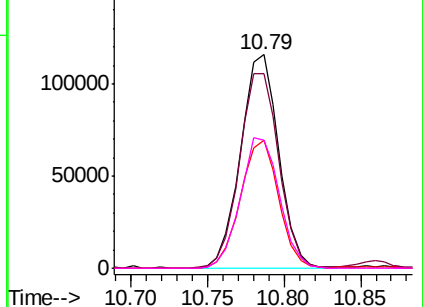


Abundance Ion 97.00 (96.70 to 97.70): VW

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



#47

Tetrachloroethene

Concen: 23.535 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW015037.D

Acq: 25 Feb 2020 16:47

Tgt Ion: 164 Resp: 187820

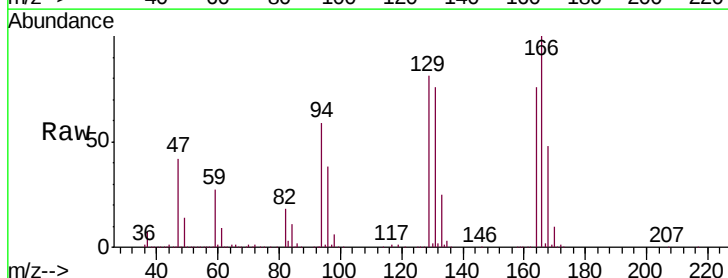
Ion Ratio Lower Upper

164 100

129 106.3 71.7 133.1

131 100.6 70.1 130.3

166 132.0 91.3 169.6

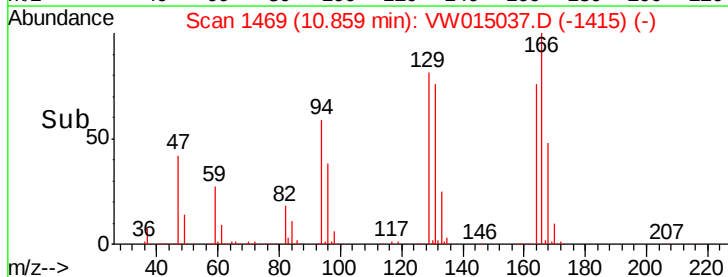
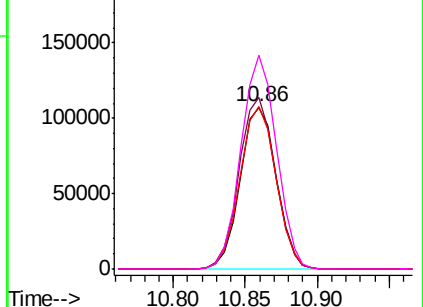


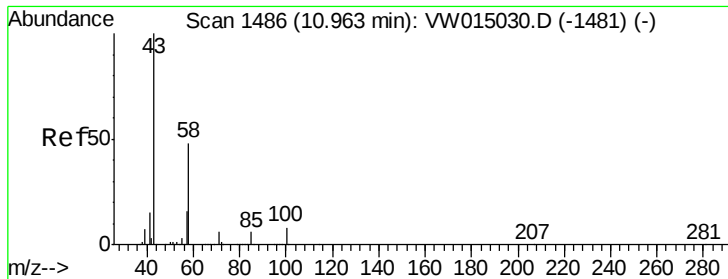
Abundance Ion 164.00 (163.70 to 164.70): V

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: 56.219 ug/L

RT: 10.96 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VW015037.D

Acq: 25 Feb 2020 16:47

Instrument :

MSVOA_W

ClientSampleId :

VSTD02528

Tgt Ion: 43 Resp: 324095

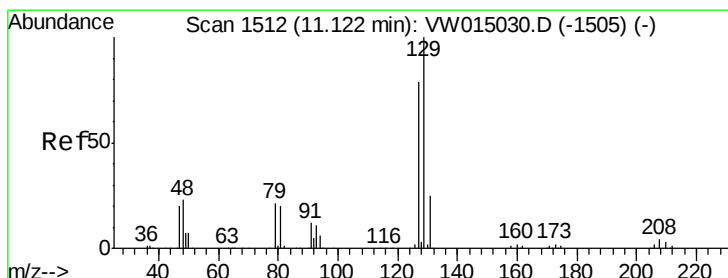
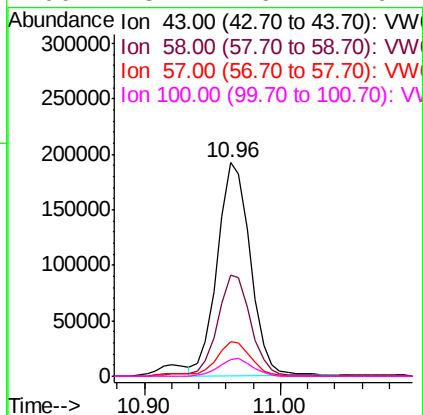
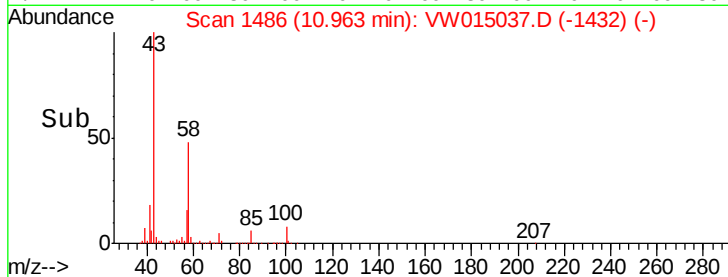
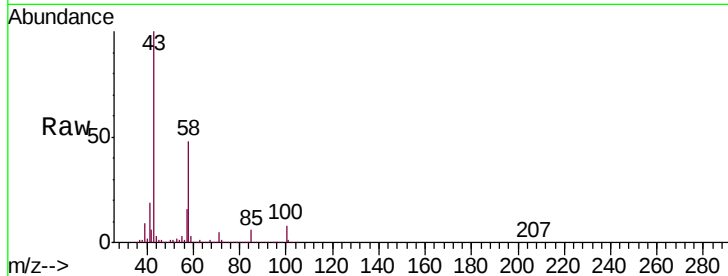
Ion Ratio Lower Upper

43 100

58 47.4 38.9 58.3

57 16.8 13.4 20.2

100 8.4 6.7 10.1



#50

Dibromochloromethane

Concen: 25.141 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. 0.01 min

Lab File: VW015037.D

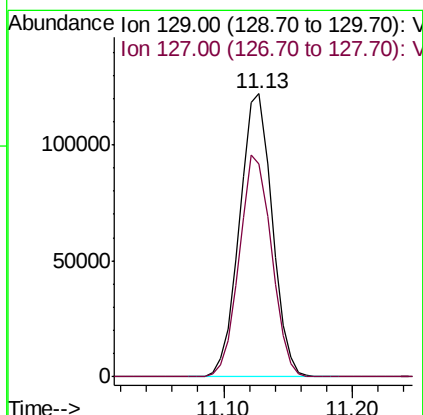
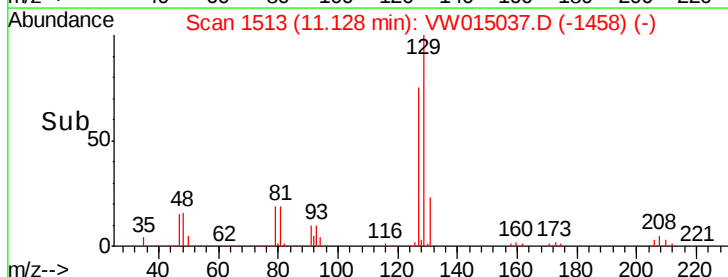
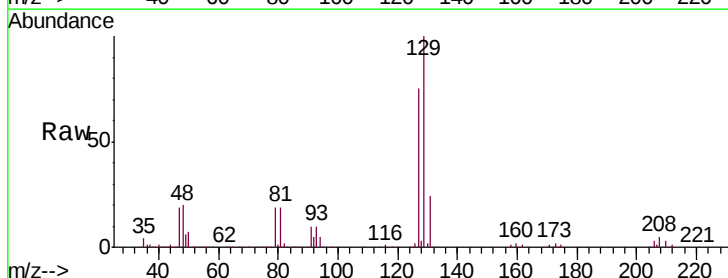
Acq: 25 Feb 2020 16:47

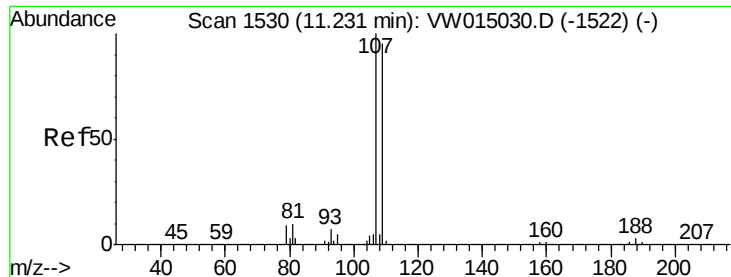
Tgt Ion: 129 Resp: 214057

Ion Ratio Lower Upper

129 100

127 75.1 56.4 104.7





#51

1,2-Dibromoethane

Concen: 25.969 ug/L

RT: 11.23 min Scan# 1530

Delta R.T. 0.00 min

Lab File: VW015037.D

Acq: 25 Feb 2020 16:47

Instrument :

MSVOA_W

ClientSampleId :

VSTD02528

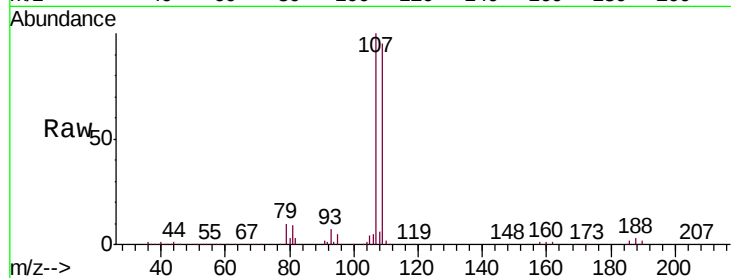
Tgt Ion:107 Resp: 181070

Ion Ratio Lower Upper

107 100

109 95.5 61.9 114.9

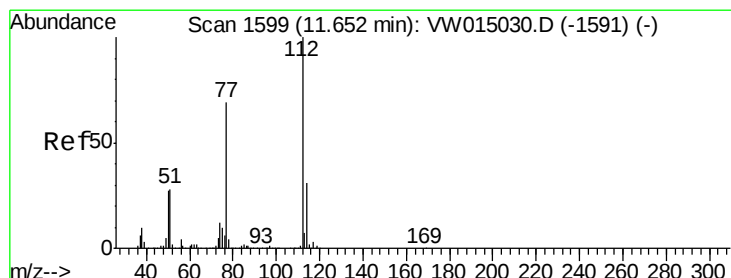
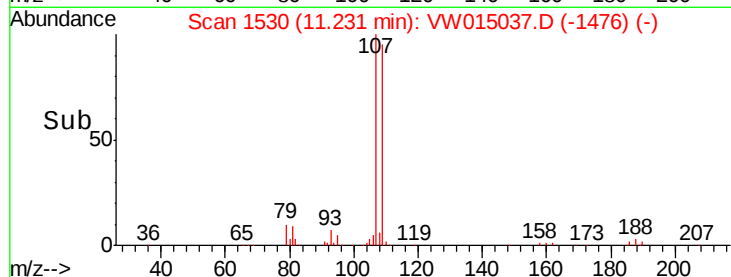
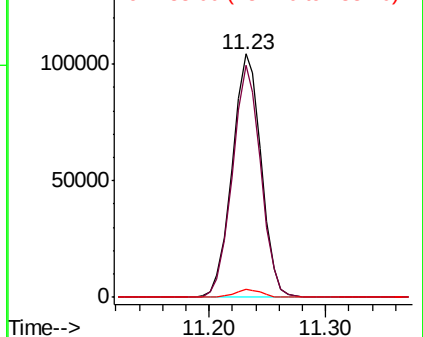
188 3.1 2.5 3.7



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 24.319 ug/L

RT: 11.65 min Scan# 1599

Delta R.T. 0.00 min

Lab File: VW015037.D

Acq: 25 Feb 2020 16:47

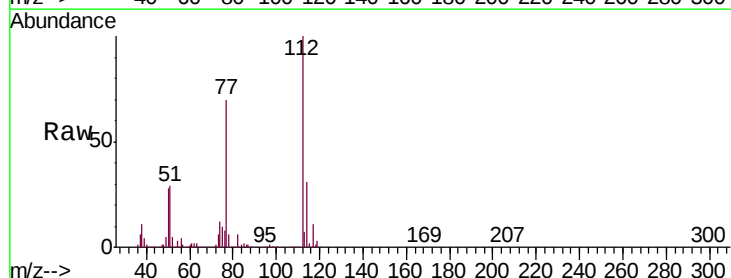
Tgt Ion:112 Resp: 711102

Ion Ratio Lower Upper

112 100

77 70.2 57.0 85.6

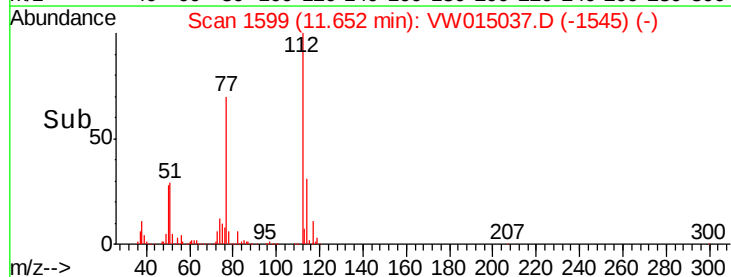
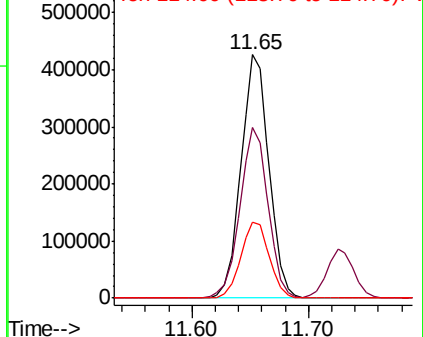
114 31.3 22.5 41.9

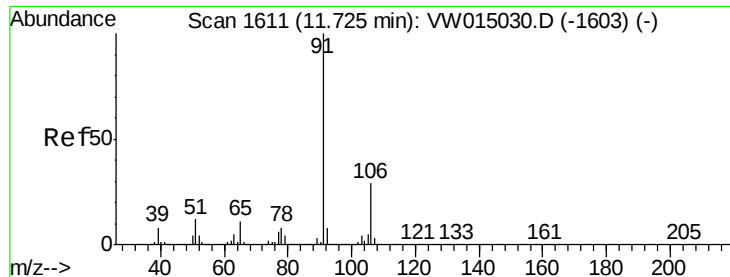


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): V

Ion 114.00 (113.70 to 114.70): V

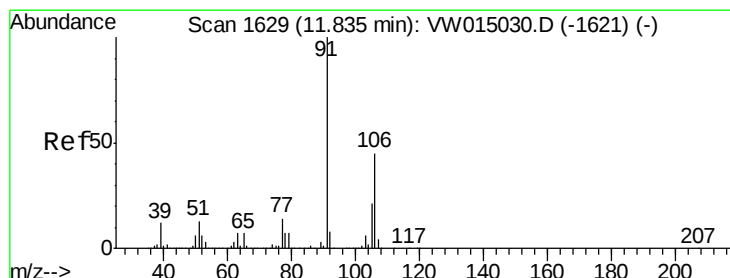
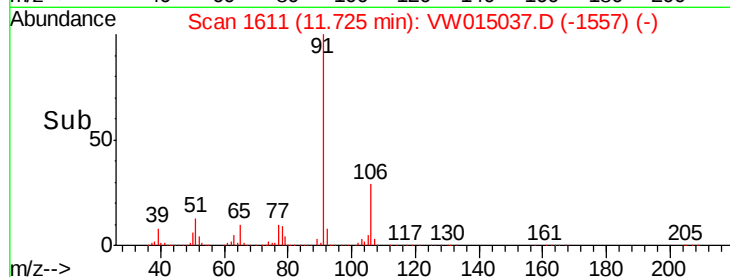
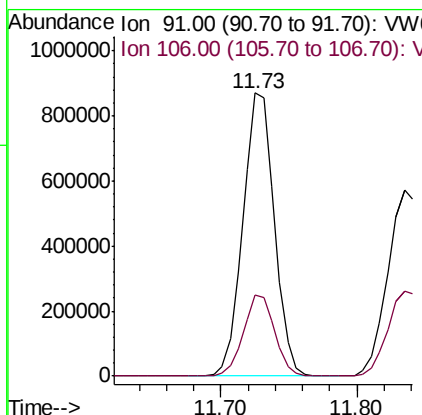
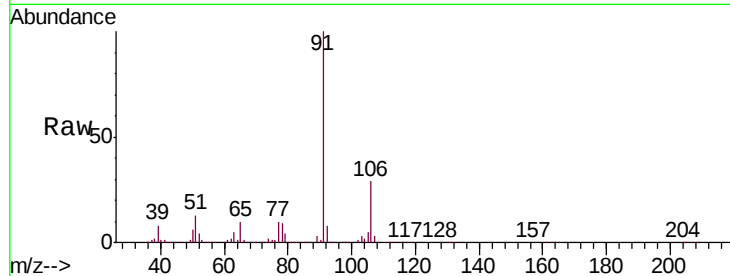




#53
Ethylbenzene
Concen: 25.892 ug/L
RT: 11.73 min Scan# 1611
Delta R.T. 0.00 min
Lab File: VW015037.D
Acq: 25 Feb 2020 16:47

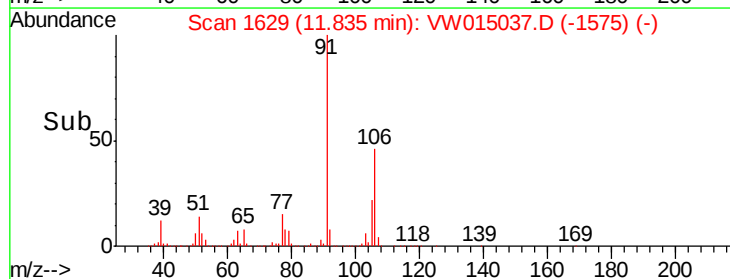
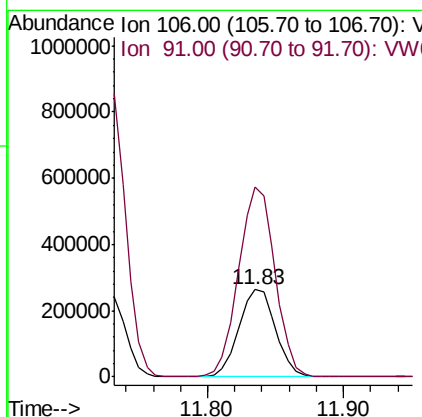
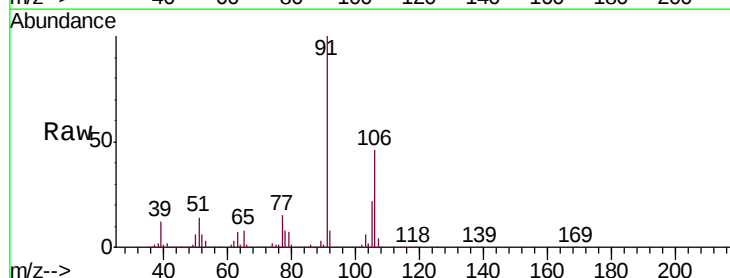
Instrument :
MSVOA_W
ClientSampleId :
VSTD02528

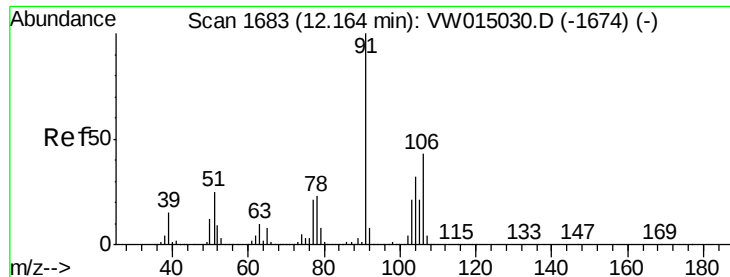
Tgt Ion: 91 Resp: 1406175
Ion Ratio Lower Upper
91 100
106 28.5 20.1 37.3



#54
m,p-Xylene
Concen: 25.991 ug/L
RT: 11.83 min Scan# 1629
Delta R.T. 0.00 min
Lab File: VW015037.D
Acq: 25 Feb 2020 16:47

Tgt Ion: 106 Resp: 493857
Ion Ratio Lower Upper
106 100
91 218.5 151.4 281.2

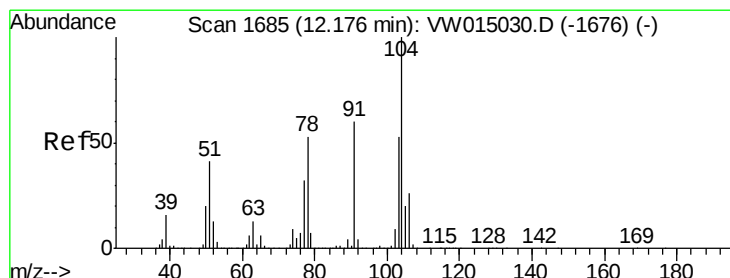
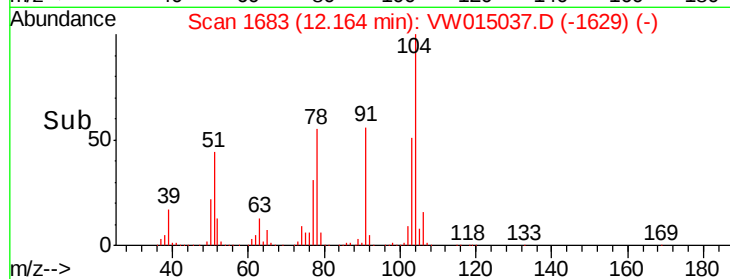
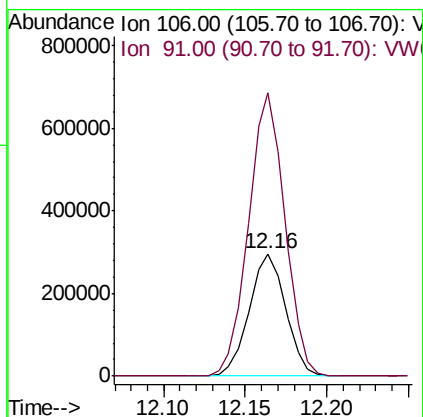
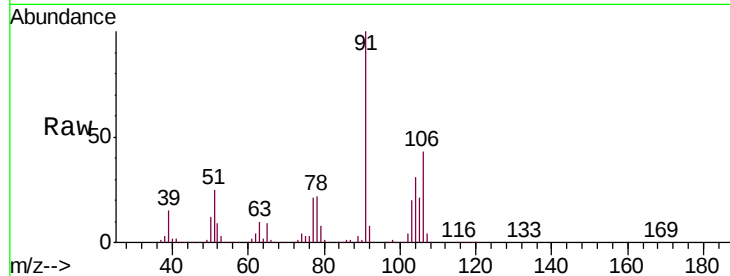




#55
o-xylene
Concen: 26.107 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW015037.D
Acq: 25 Feb 2020 16:47

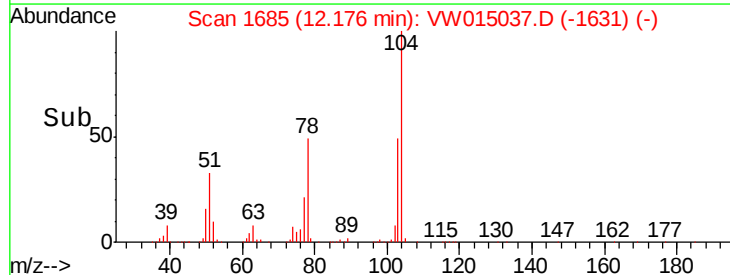
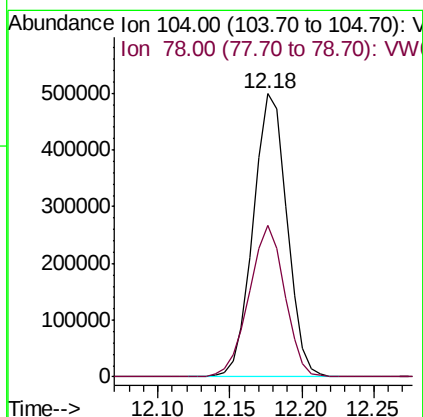
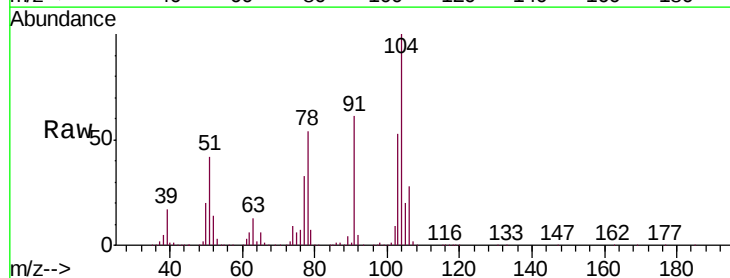
Instrument :
MSVOA_W
ClientSampled :
VSTD02528

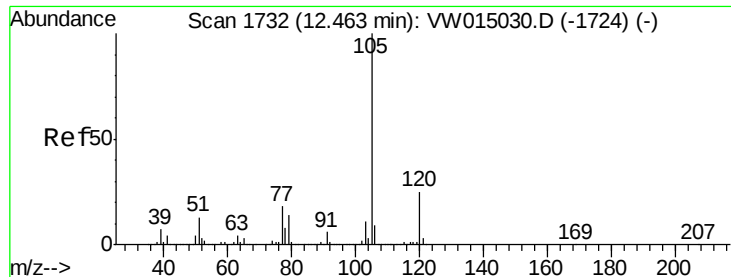
Tgt Ion:106 Resp: 462218
Ion Ratio Lower Upper
106 100
91 231.9 162.5 301.9



#56
Styrene
Concen: 26.669 ug/L
RT: 12.18 min Scan# 1685
Delta R.T. 0.00 min
Lab File: VW015037.D
Acq: 25 Feb 2020 16:47

Tgt Ion:104 Resp: 808702
Ion Ratio Lower Upper
104 100
78 53.7 35.6 66.0





#57

Isopropylbenzene

Concen: 26.157 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW015037.D

Acq: 25 Feb 2020 16:47

Instrument :

MSVOA_W

ClientSampleId :

VSTD02528

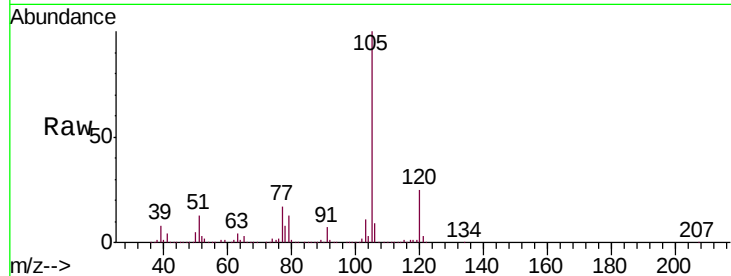
Tgt Ion: 105 Resp: 1261193

Ion Ratio Lower Upper

105 100

120 25.1 19.8 29.8

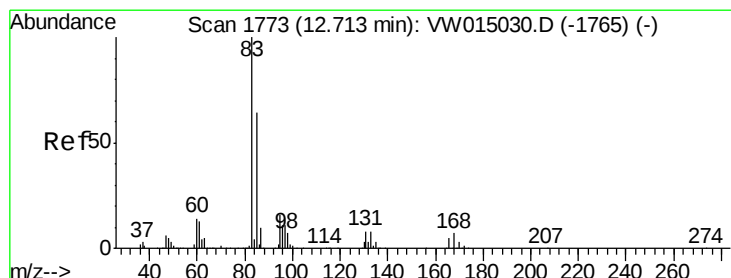
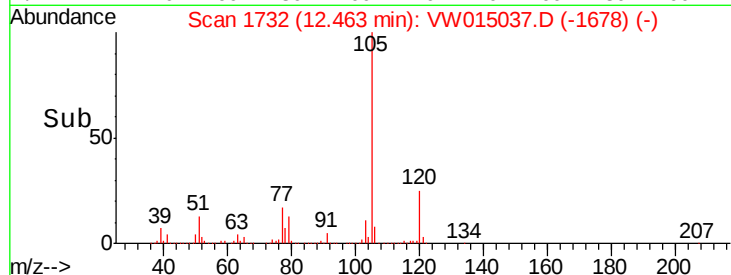
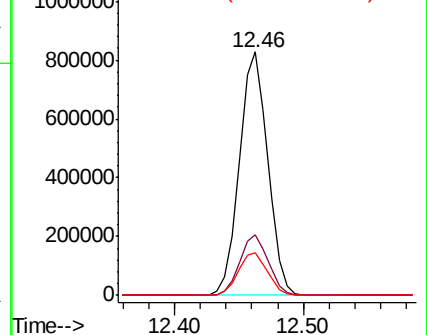
77 18.0 14.4 21.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 25.685 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW015037.D

Acq: 25 Feb 2020 16:47

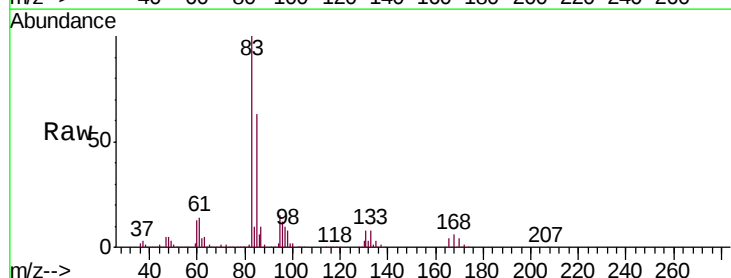
Tgt Ion: 83 Resp: 259278

Ion Ratio Lower Upper

83 100

85 63.1 44.2 82.0

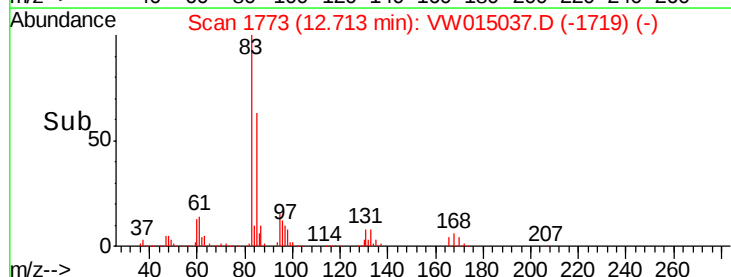
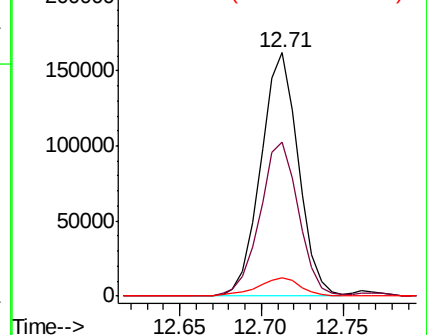
131 7.7 6.3 9.5

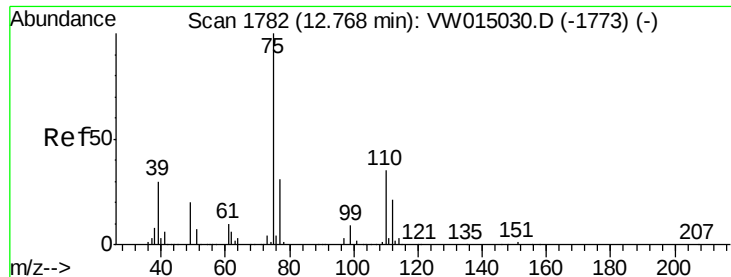


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 25.901 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW015037.D

Acq: 25 Feb 2020 16:47

Instrument :

MSVOA_W

ClientSampleId :

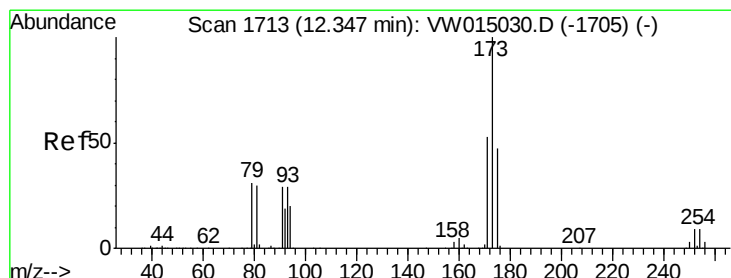
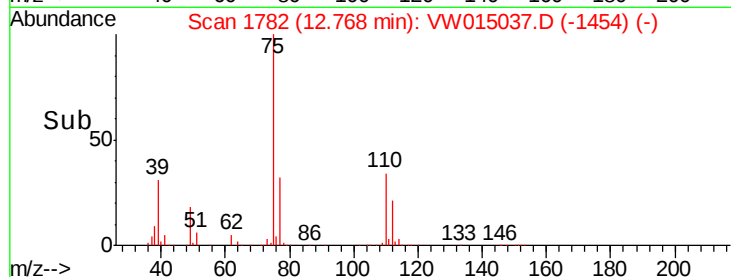
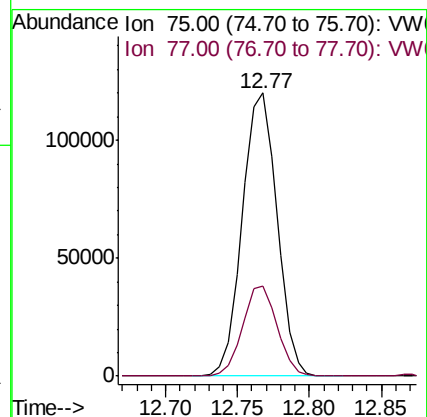
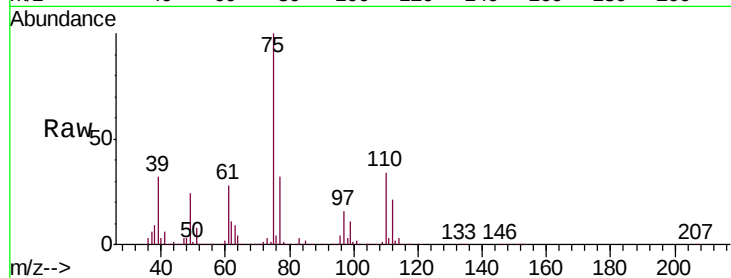
VSTD02528

Tgt Ion: 75 Resp: 200956

Ion Ratio Lower Upper

75 100

77 31.6 25.4 38.0



#62

Bromoform

Concen: 24.772 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW015037.D

Acq: 25 Feb 2020 16:47

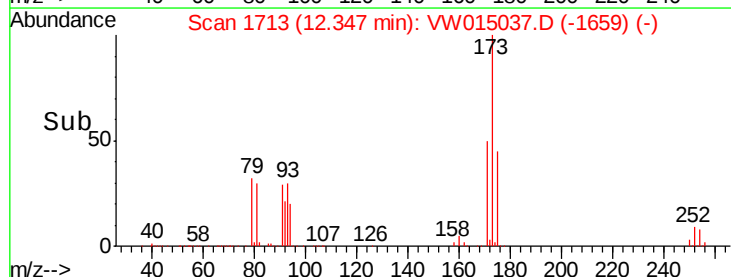
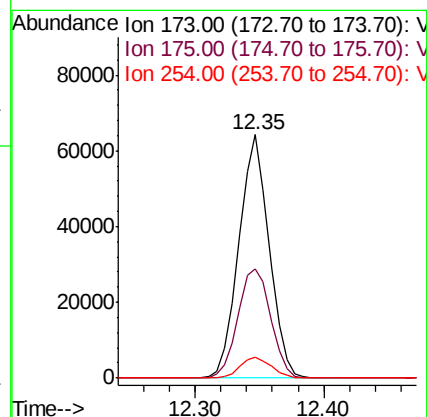
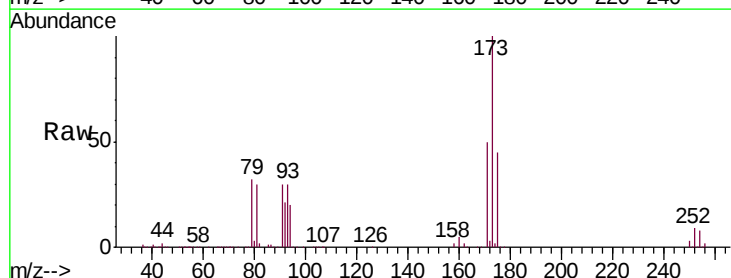
Tgt Ion: 173 Resp: 104801

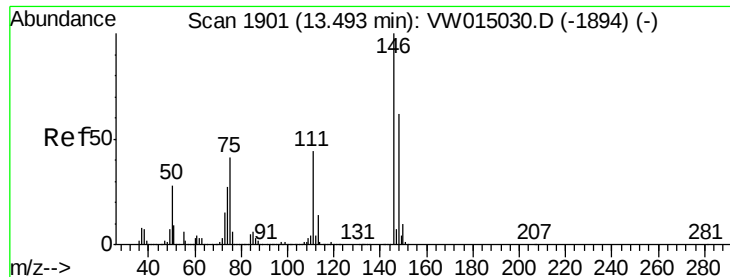
Ion Ratio Lower Upper

173 100

175 48.5 38.7 58.1

254 8.8 7.0 10.4

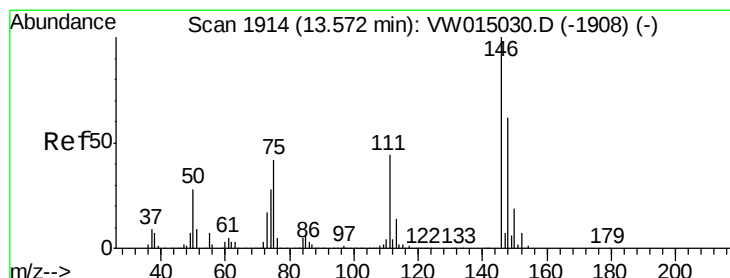
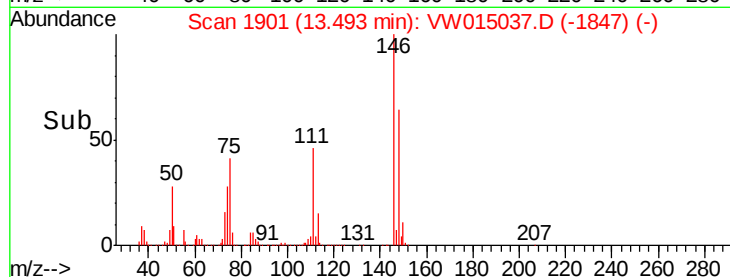
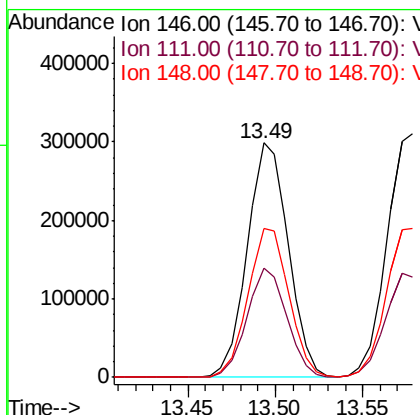
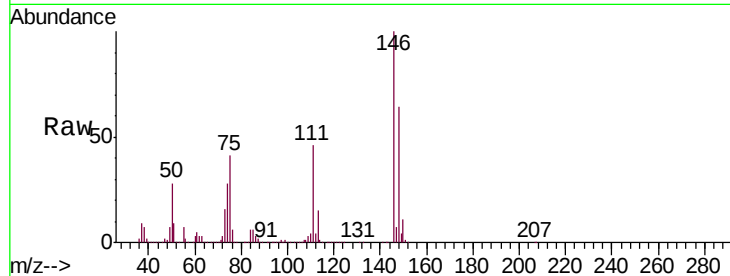




#63
 1,3-Dichlorobenzene
 Concen: 24.725 ug/L
 RT: 13.49 min Scan# 1901
 Delta R.T. 0.00 min
 Lab File: VW015037.D
 Acq: 25 Feb 2020 16:47

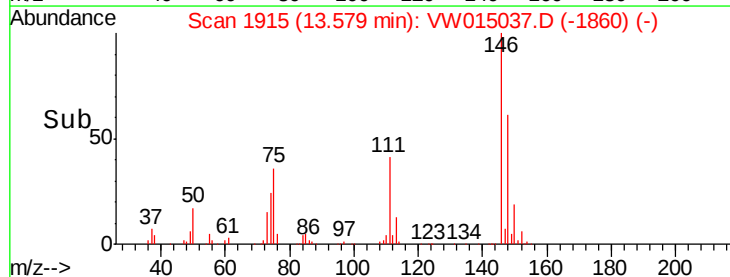
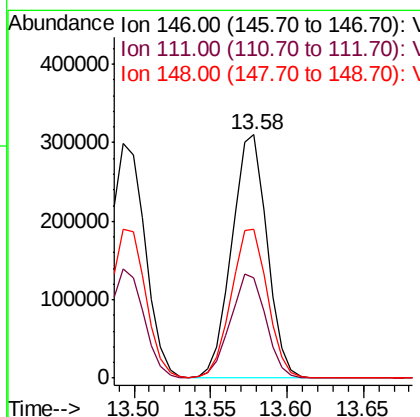
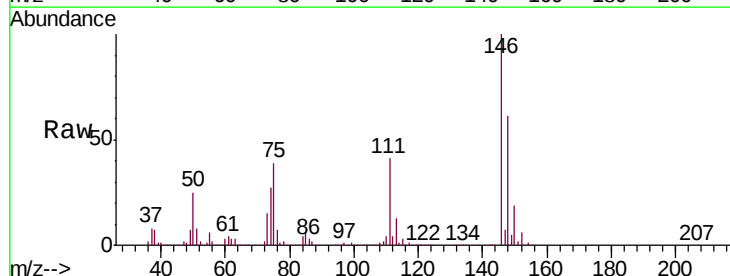
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02528

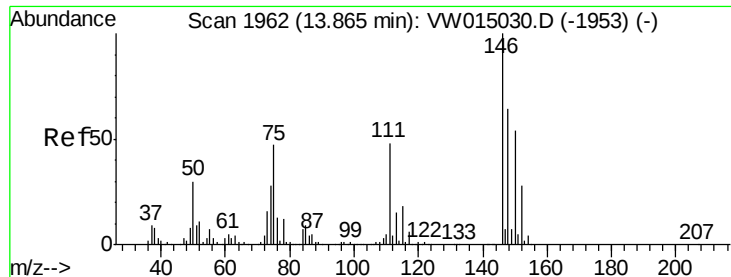
Tgt Ion:146 Resp: 485491
 Ion Ratio Lower Upper
 146 100
 111 46.5 30.9 57.3
 148 63.6 44.6 82.8



#64
 1,4-Dichlorobenzene
 Concen: 24.494 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.01 min
 Lab File: VW015037.D
 Acq: 25 Feb 2020 16:47

Tgt Ion:146 Resp: 495197
 Ion Ratio Lower Upper
 146 100
 111 41.1 29.9 55.5
 148 61.1 46.1 85.5





#65

1,2-Dichlorobenzene

Concen: 25.063 ug/L

RT: 13.87 min Scan# 1962

Delta R.T. 0.00 min

Lab File: VW015037.D

Acq: 25 Feb 2020 16:47

Instrument :

MSVOA_W

ClientSampleId :

VSTD02528

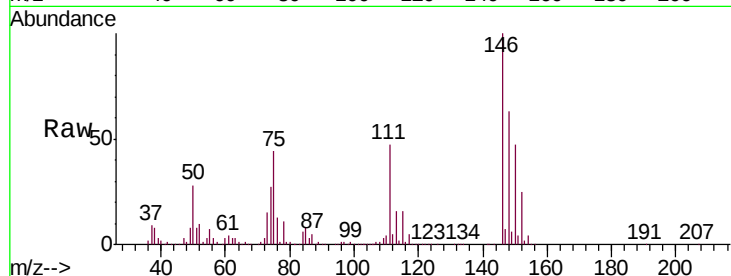
Tgt Ion:146 Resp: 445699

Ion Ratio Lower Upper

146 100

111 46.9 37.7 56.5

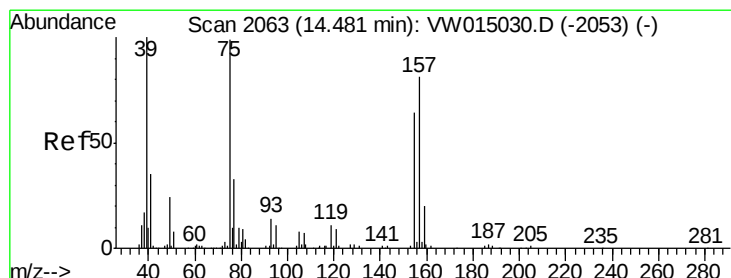
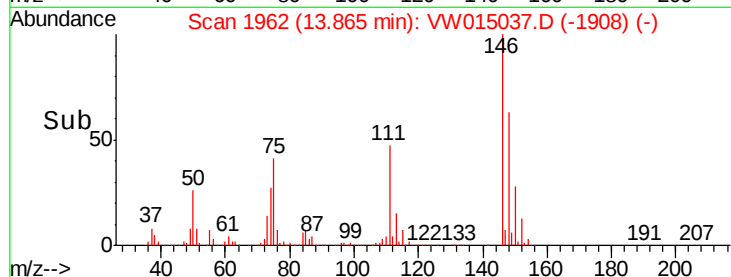
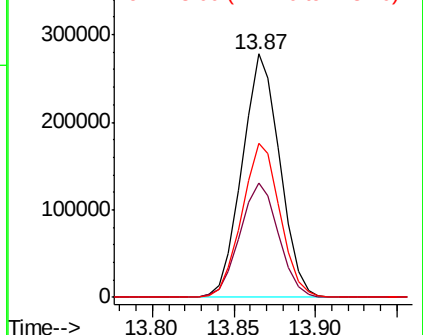
148 63.5 50.0 75.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 25.227 ug/L

RT: 14.48 min Scan# 2063

Delta R.T. 0.00 min

Lab File: VW015037.D

Acq: 25 Feb 2020 16:47

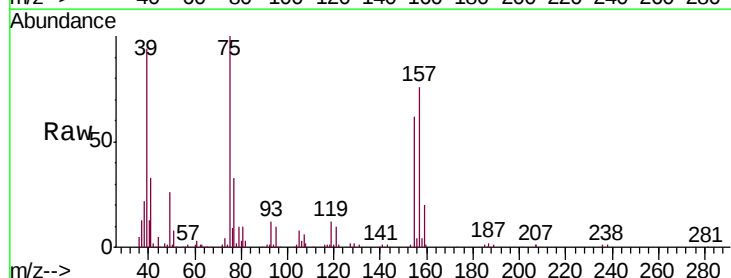
Tgt Ion: 75 Resp: 39605

Ion Ratio Lower Upper

75 100

157 76.3 61.4 92.0

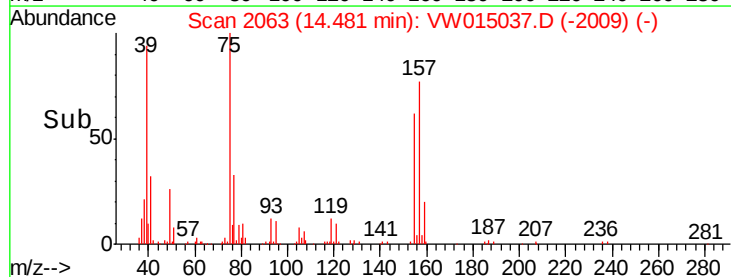
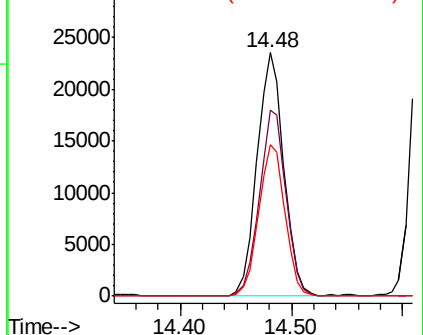
155 62.2 45.0 67.6

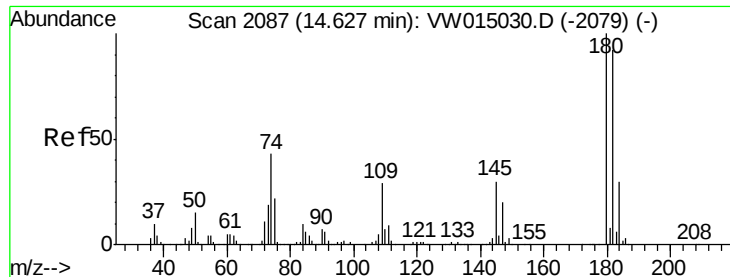


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

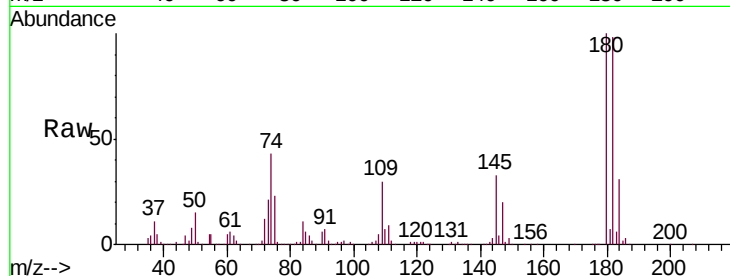




#67
 1,3,5-Trichlorobenzene
 Concen: 24.751 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VW015037.D
 Acq: 25 Feb 2020 16:47

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02528

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.3	75.4	113.0
184	29.8	23.9	35.9
145	31.9	25.4	38.2



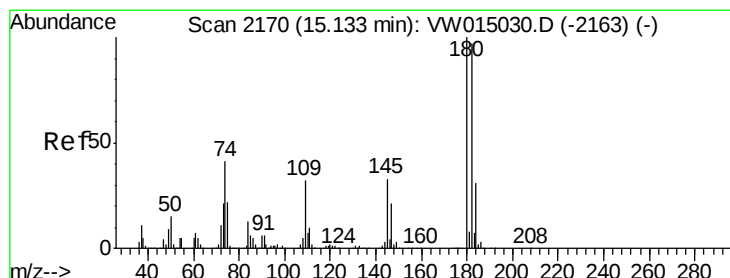
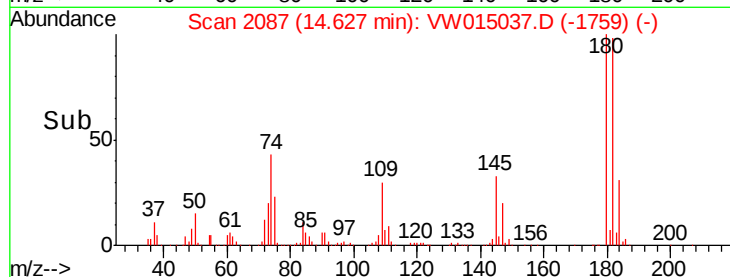
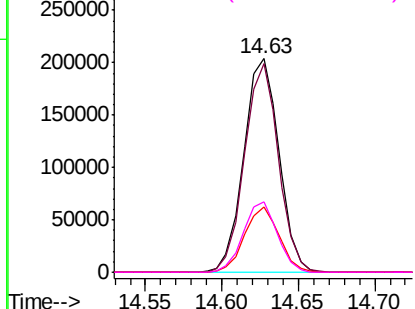
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

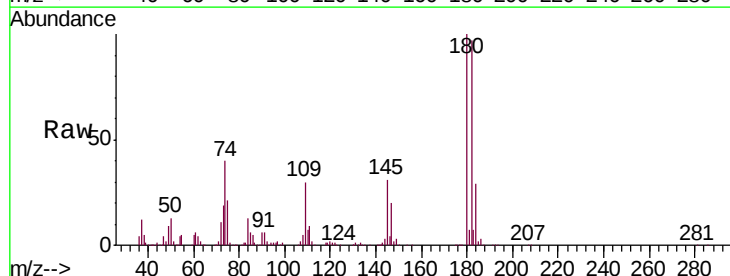
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 25.573 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW015037.D
 Acq: 25 Feb 2020 16:47

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.8	75.7	113.5
145	31.8	25.9	38.9

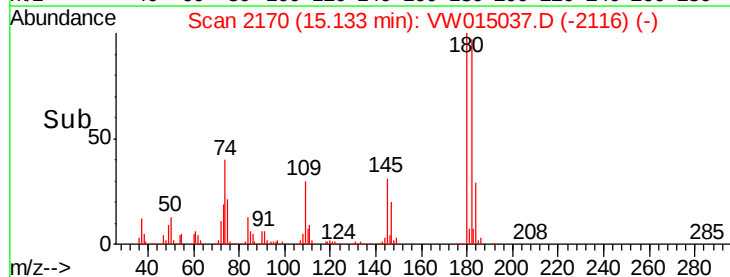
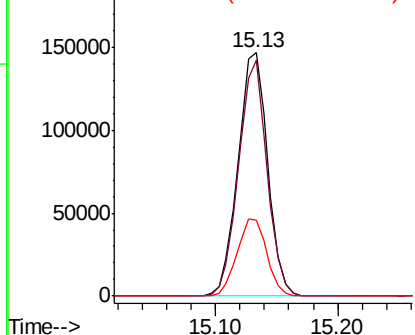


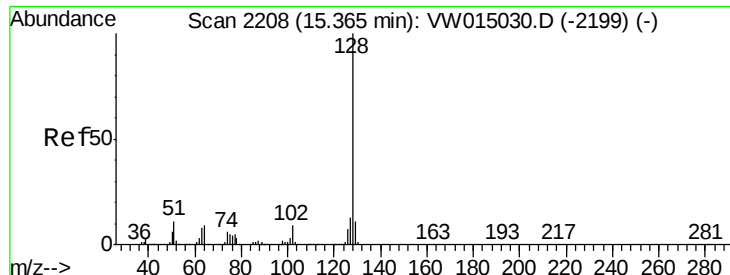
Abundance

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: 26.504 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW015037.D

Acq: 25 Feb 2020 16:47

Instrument :

MSVOA_W

ClientSampleId :

VSTD02528

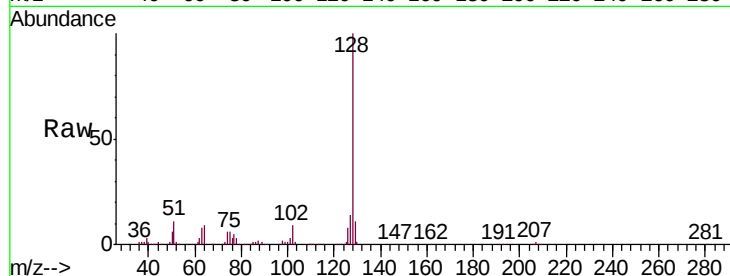
Tgt Ion:128 Resp: 226421

Ion Ratio Lower Upper

128 100

129 10.8 8.9 13.3

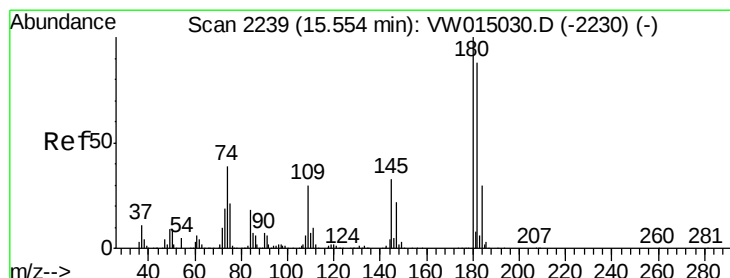
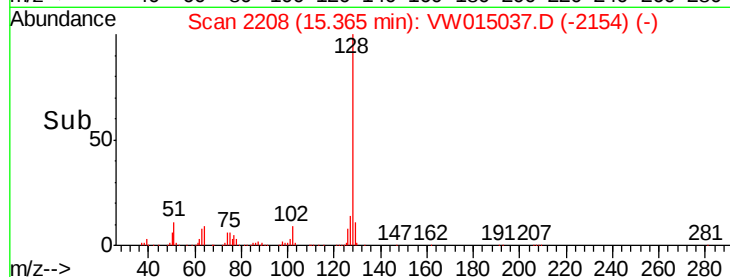
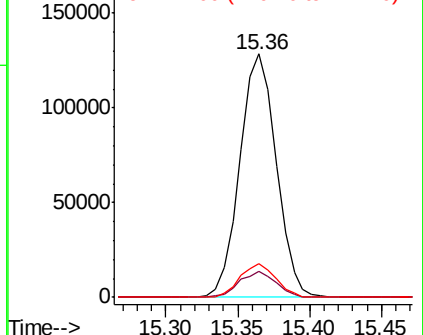
127 13.8 11.1 16.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 25.571 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VW015037.D

Acq: 25 Feb 2020 16:47

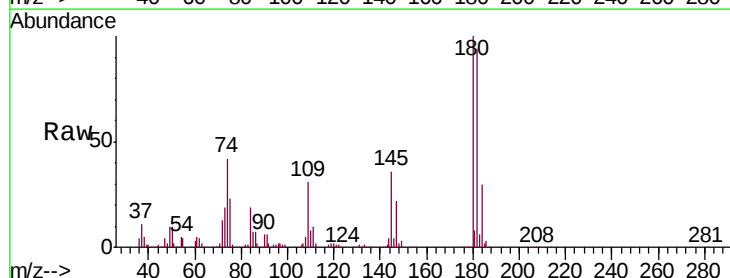
Tgt Ion:180 Resp: 220869

Ion Ratio Lower Upper

180 100

182 95.2 75.8 113.6

145 35.1 27.1 40.7



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

