

Data File : VW014421.D
Acq On : 18 Dec 2019 04:50
Operator : SY/VA
Sample : VSTDCCC025EC
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD02524

Quant Time: Dec 18 05:48:52 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM120519S.M
Quant Title : VOC Analysis
QLast Update : Wed Dec 18 03:31:53 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	1037920	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	951441	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	455692	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	311626	19.83	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	79.32%
7) Chloroethane-d5	2.89	69	284018	24.30	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	97.20%
10) 1,1-Dichloroethene-d2	4.02	63	641600	23.11	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	92.44%
20) 2-Butanone-d5	7.07	46	221914	54.18	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	108.36%
24) Chloroform-d	7.64	84	729928	27.62	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	110.48%
26) 1,2-Dichloroethane-d4	8.30	65	379832	27.41	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	109.64%
29) Benzene-d6	8.27	84	1452440	26.05	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	104.20%
33) 1,2-Dichloropropane-d6	9.27	67	466931	27.22	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	108.88%
37) Toluene-d8	10.32	98	1306602	25.91	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	103.64%
38) trans-1,3-Dichloropropene-	10.57	79	175178	24.34	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	97.36%
39) 2-Hexanone-d5	10.92	63	177539	52.05	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	104.10%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	358763	25.66	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	102.64%
61) 1,2-Dichlorobenzene-d4	13.85	152	447613	25.71	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	102.84%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	220015	22.287	ug/L 100
3) Chloromethane	2.21	50	233140	23.493	ug/L 95
5) Vinyl chloride	2.36	62	361935	24.632	ug/L 93
6) Bromomethane	2.78	94	226712	25.014	ug/L 98
8) Chloroethane	2.92	64	218714	26.054	ug/L 100
9) Trichlorofluoromethane	3.26	101	158771	21.826	ug/L 99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	332396	24.280	ug/L 94
12) 1,1-Dichloroethene	4.04	96	334368	24.124	ug/L 84
13) Acetone	4.12	43	136648	34.605	ug/L 99
14) Carbon disulfide	4.39	76	970850	22.839	ug/L 100
15) Methyl Acetate	4.66	43	167399	22.412	ug/L 98
16) Methylene chloride	4.92	84	395256	24.842	ug/L 92
17) Methyl tert-butyl Ether	5.42	73	449793	24.609	ug/L 99
18) trans-1,2-Dichloroethene	5.42	96	358212	24.133	ug/L 92
19) 1,1-Dichloroethane	6.21	63	687860	25.794	ug/L 99
21) 2-Butanone	7.17	43	223021	42.067	ug/L 96
22) cis-1,2-Dichloroethene	7.17	96	397088	25.142	ug/L 96

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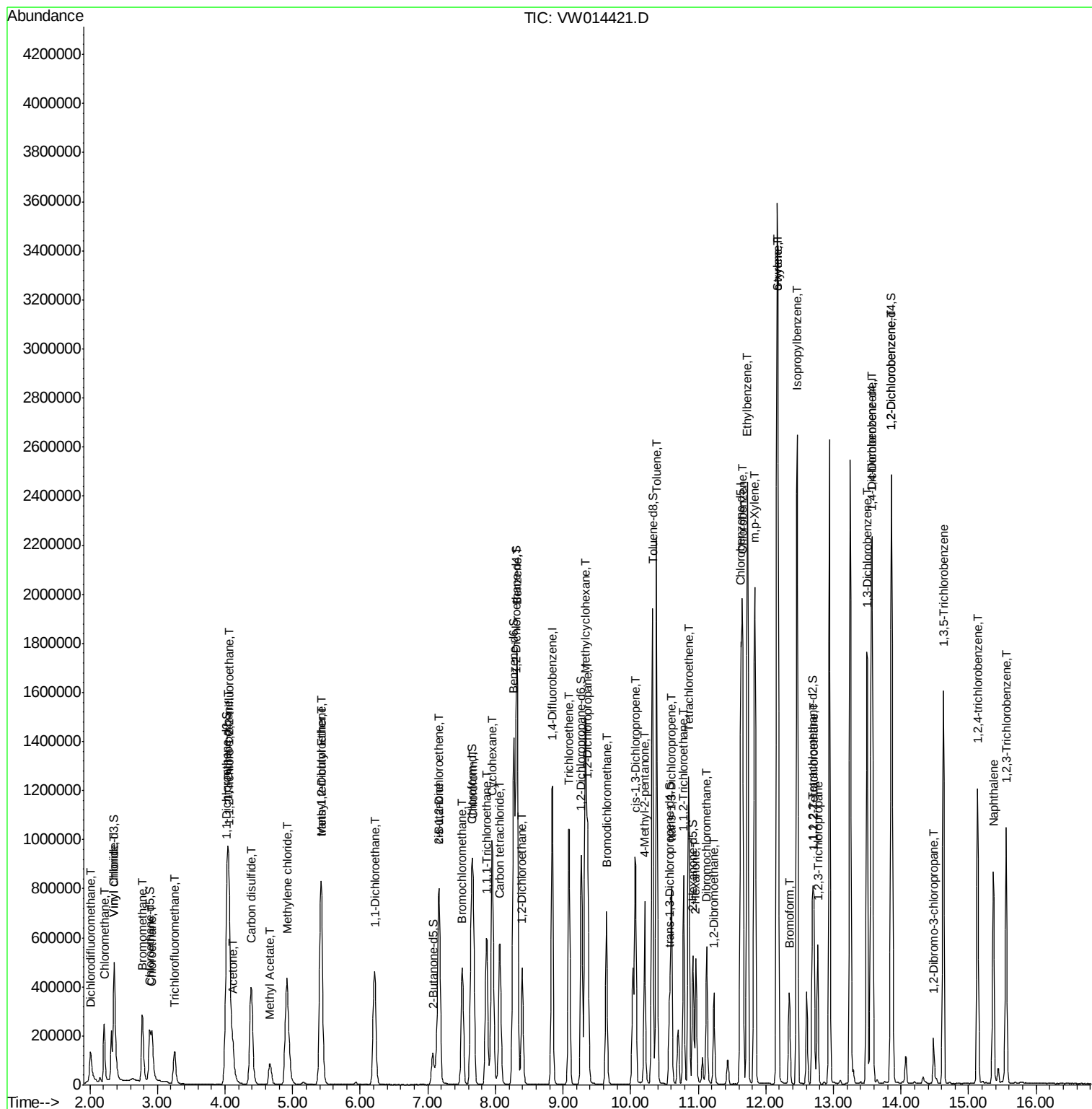
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	171216	23.567	ug/L #	79
25) Chloroform	7.67	83	672473	25.950	ug/L	99
27) 1,2-Dichloroethane	8.40	62	431660	25.438	ug/L	96
30) Cyclohexane	7.95	56	582873	24.544	ug/L	96
31) 1,1,1-Trichloroethane	7.87	97	497857	26.055	ug/L	97
32) Carbon tetrachloride	8.07	117	454043	25.043	ug/L	100
34) Benzene	8.32	78	1547861	25.694	ug/L	100
35) Trichloroethene	9.09	95	377455	24.488	ug/L	95
36) Methylcyclohexane	9.33	83	614881	23.739	ug/L	96
40) 1,2-Dichloropropane	9.37	63	398285	25.734	ug/L	98
41) Bromodichloromethane	9.64	83	478034	25.416	ug/L	98
42) cis-1,3-Dichloropropene	10.07	75	562740	24.280	ug/L	100
43) 4-Methyl-2-pentanone	10.21	43	480701	47.101	ug/L	97
44) Toluene	10.38	91	1623374	25.703	ug/L	99
45) trans-1,3-Dichloropropene	10.60	75	440453	23.476	ug/L	98
46) 1,1,2-Trichloroethane	10.79	97	270665	23.338	ug/L	98
47) Tetrachloroethene	10.86	164	297588	23.164	ug/L	98
49) 2-Hexanone	10.96	43	327561	45.083	ug/L	98
50) Dibromochloromethane	11.13	129	311906	23.963	ug/L	100
51) 1,2-Dibromoethane	11.23	107	253508	23.077	ug/L #	98
52) Chlorobenzene	11.65	112	1000558	24.512	ug/L	93
53) Ethylbenzene	11.73	91	1757726	25.648	ug/L	98
54) m,p-Xylene	11.84	106	664249	25.197	ug/L	96
55) o-xylene	12.16	106	633791	25.347	ug/L	97
56) Styrene	12.18	104	1109826	25.945	ug/L	97
57) Isopropylbenzene	12.46	105	1676033	25.819	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.71	83	325152	22.589	ug/L	96
59) 1,2,3-Trichloropropane	12.77	75	239442	22.386	ug/L	100
62) Bromoform	12.35	173	174576	22.572	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	747912	24.419	ug/L	98
64) 1,4-Dichlorobenzene	13.58	146	754656	24.251	ug/L	99
65) 1,2-Dichlorobenzene	13.87	146	692028	24.296	ug/L	95
66) 1,2-Dibromo-3-chloropropan	14.48	75	48352	22.006	ug/L	82
67) 1,3,5-Trichlorobenzene	14.63	180	518861	23.546	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	409305	23.826	ug/L	99
69) Naphthalene	15.36	128	740987	22.937	ug/L	100
70) 1,2,3-Trichlorobenzene	15.55	180	372066	23.096	ug/L	98

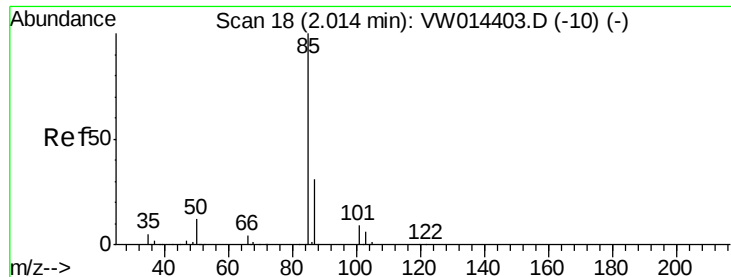
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 22.287 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW014421.D

Acq: 18 Dec 2019 04:50

Instrument :

MSVOA_W

ClientSampleId :

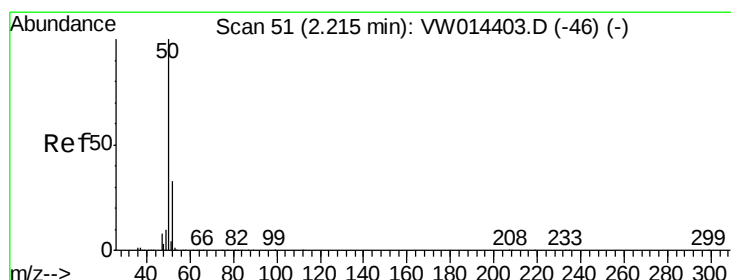
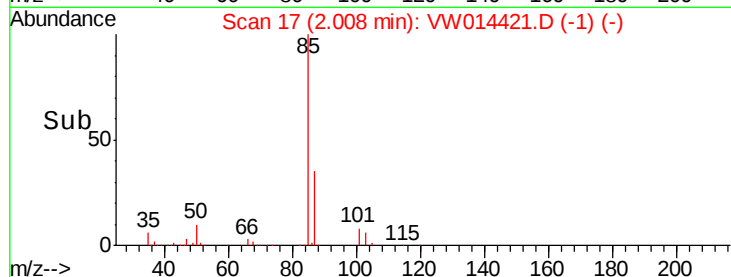
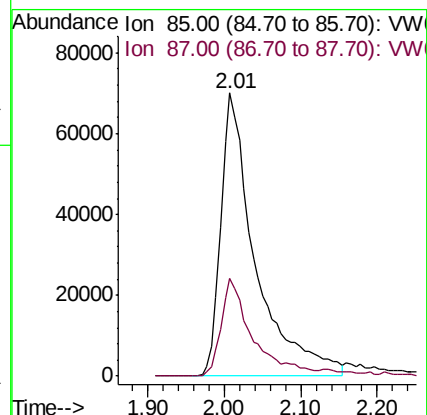
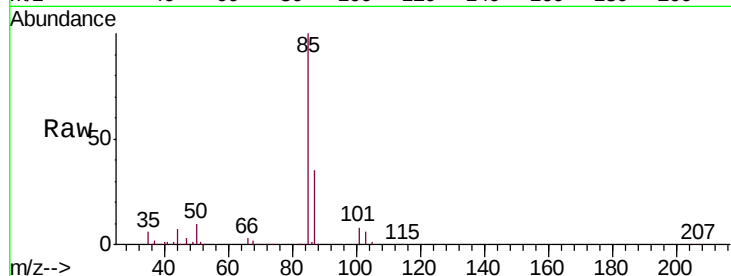
VSTD02524

Tgt Ion: 85 Resp: 220015

Ion Ratio Lower Upper

85 100

87 31.3 22.1 41.1



#3

Chloromethane

Concen: 23.493 ug/L

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW014421.D

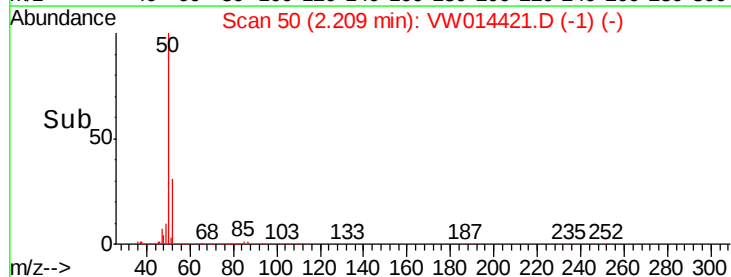
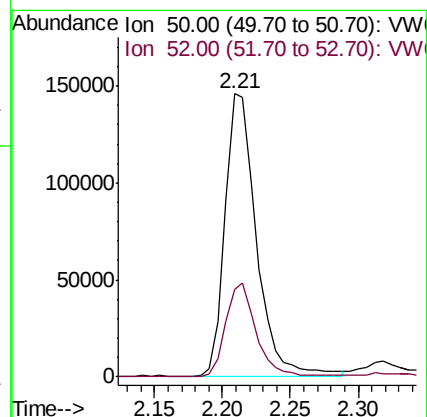
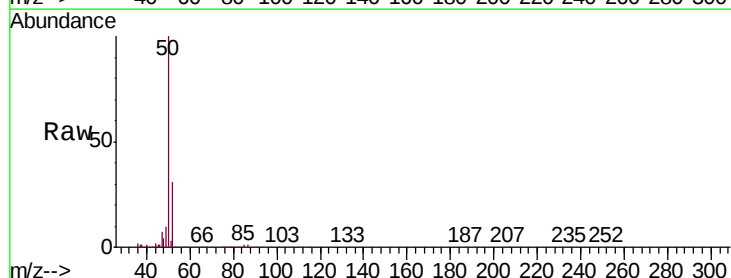
Acq: 18 Dec 2019 04:50

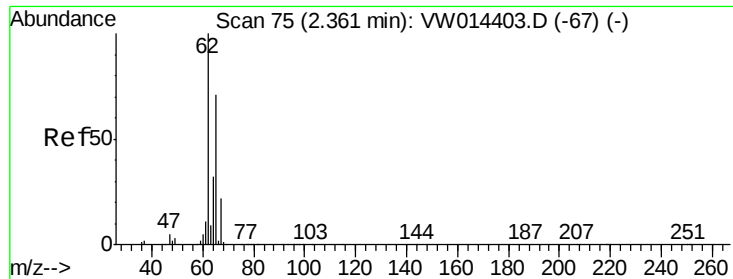
Tgt Ion: 50 Resp: 233140

Ion Ratio Lower Upper

50 100

52 31.1 23.8 44.2





#5

Vinyl chloride

Concen: 24.632 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.00 min

Lab File: VW014421.D

Acq: 18 Dec 2019 04:50

Instrument :

MSVOA_W

ClientSampleId :

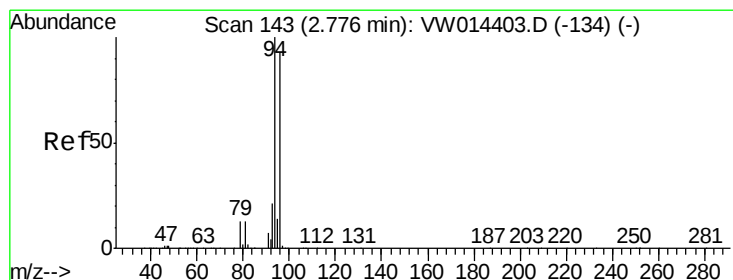
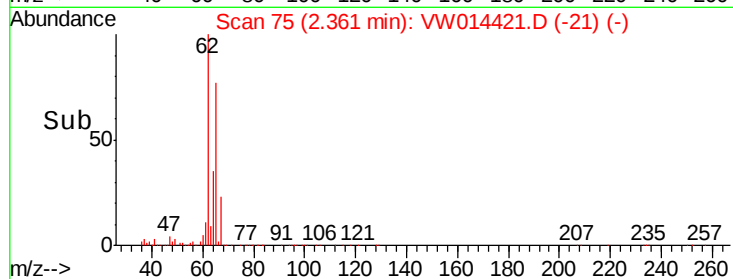
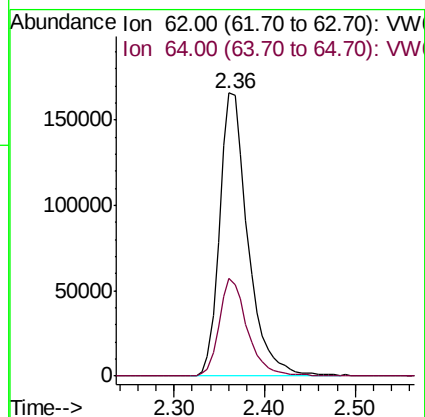
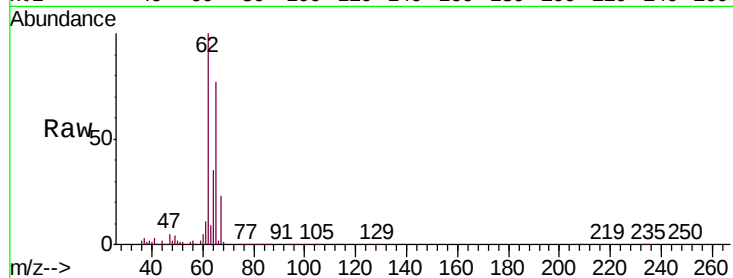
VSTD02524

Tgt Ion: 62 Resp: 361935

Ion Ratio Lower Upper

62 100

64 34.7 21.8 40.4



#6

Bromomethane

Concen: 25.014 ug/L

RT: 2.78 min Scan# 143

Delta R.T. -0.00 min

Lab File: VW014421.D

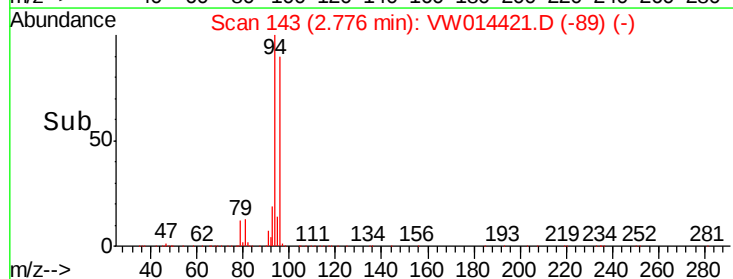
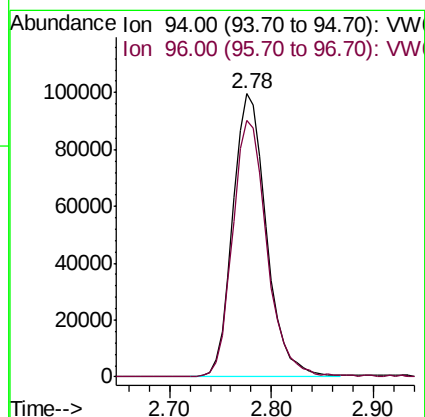
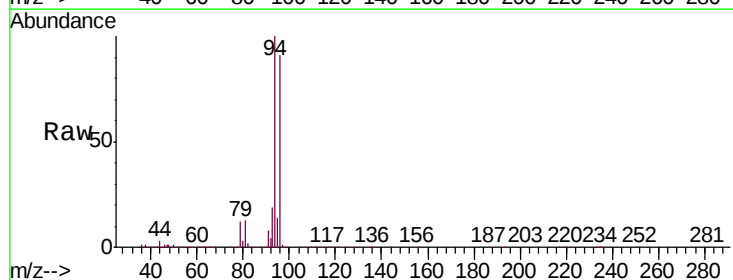
Acq: 18 Dec 2019 04:50

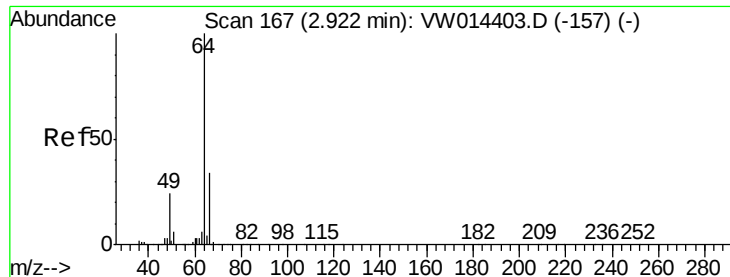
Tgt Ion: 94 Resp: 226712

Ion Ratio Lower Upper

94 100

96 92.0 9.4 178.8





#8

Chloroethane

Concen: 26.054 ug/L

RT: 2.92 min Scan# 167

Delta R.T. -0.00 min

Lab File: VW014421.D

Acq: 18 Dec 2019 04:50

Instrument :

MSVOA_W

ClientSampleId :

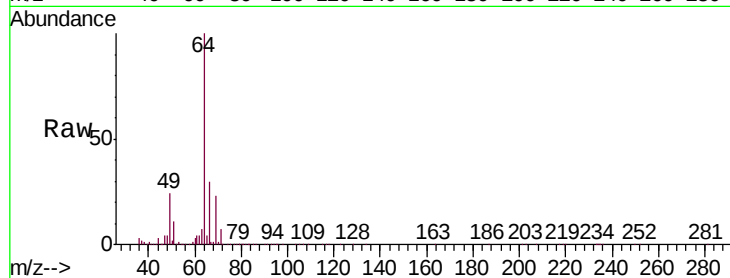
VSTD02524

Tgt Ion: 64 Resp: 218714

Ion Ratio Lower Upper

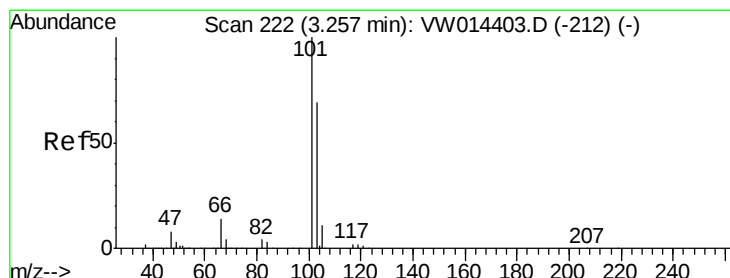
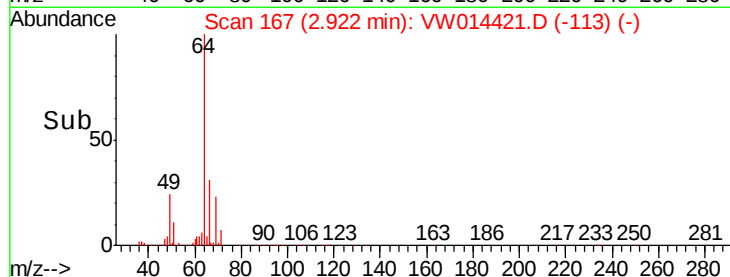
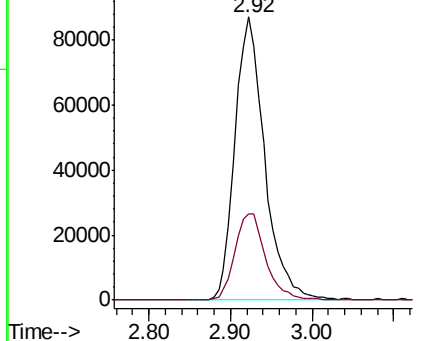
64 100

66 30.5 21.2 39.4



Abundance Ion 64.00 (63.70 to 64.70): VW

Ion 66.00 (65.70 to 66.70): VW



#9

Trichlorofluoromethane

Concen: 21.826 ug/L

RT: 3.26 min Scan# 222

Delta R.T. -0.00 min

Lab File: VW014421.D

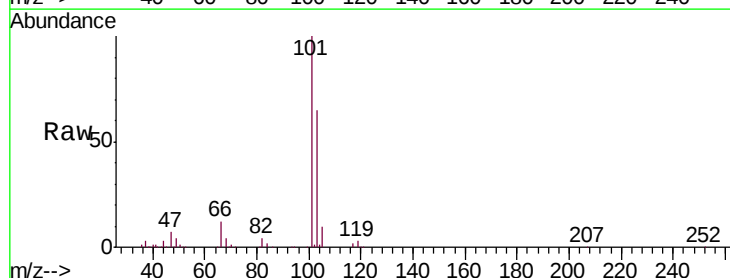
Acq: 18 Dec 2019 04:50

Tgt Ion: 101 Resp: 158771

Ion Ratio Lower Upper

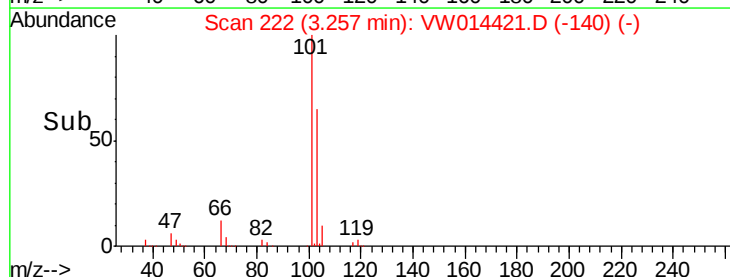
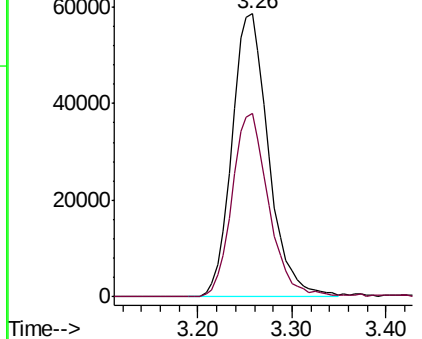
101 100

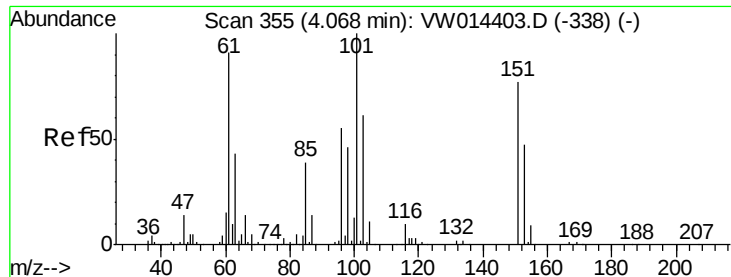
103 64.0 45.4 84.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#11

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

Concen: 24.280 ug/L

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

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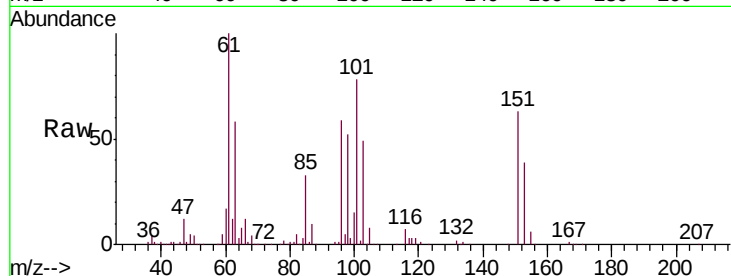
Tgt Ion:101 Resp: 332396

Ion Ratio Lower Upper

101 100

85 40.6 31.4 47.2

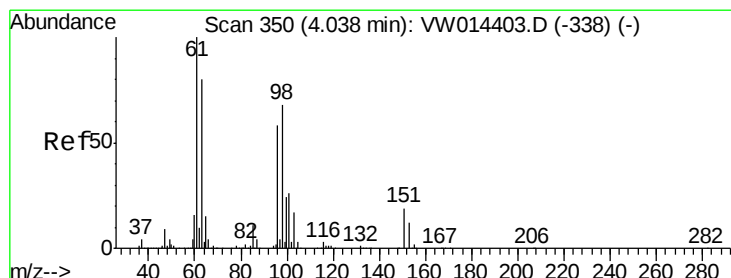
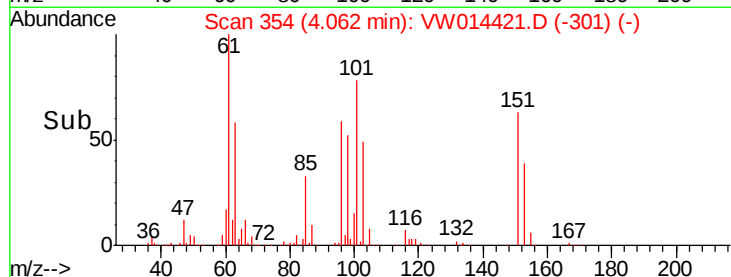
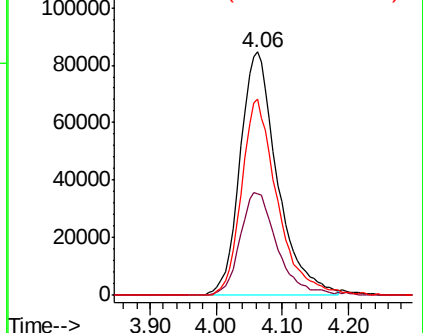
151 76.3 66.9 100.3



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: 24.124 ug/L

RT: 4.04 min Scan# 350

Delta R.T. -0.00 min

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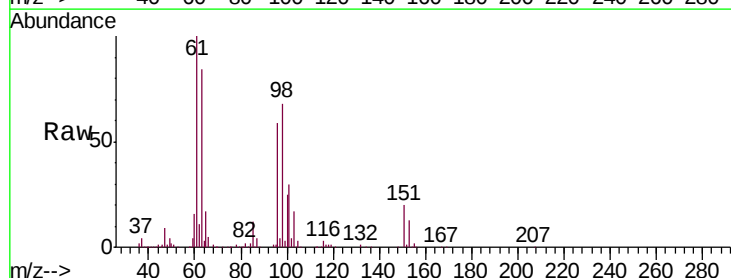
Tgt Ion: 96 Resp: 334368

Ion Ratio Lower Upper

96 100

61 169.6 109.8 204.0

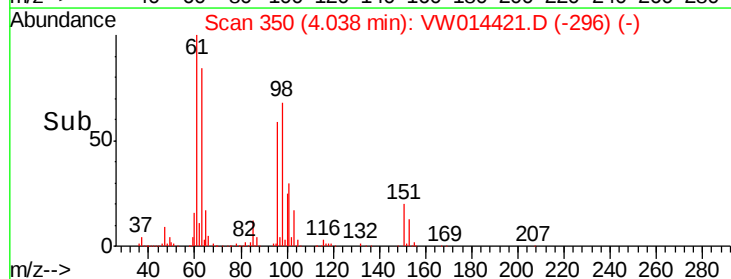
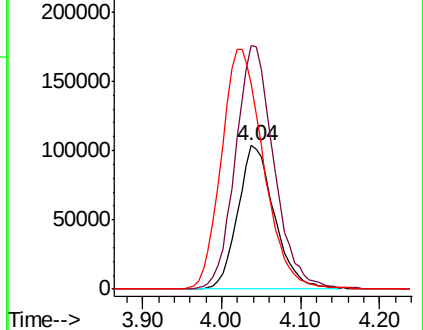
63 143.1 80.7 149.9

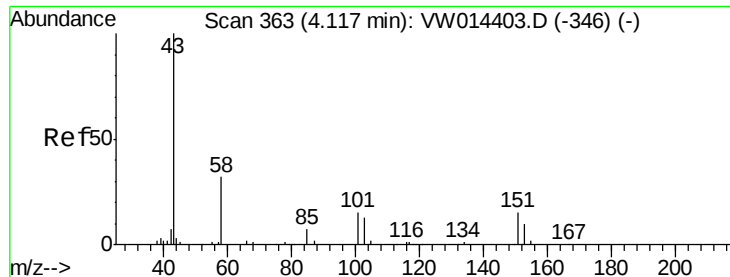


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 34.605 ug/L

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

Lab File: VW014421.D

Acq: 18 Dec 2019 04:50

Instrument :

MSVOA_W

ClientSampled :

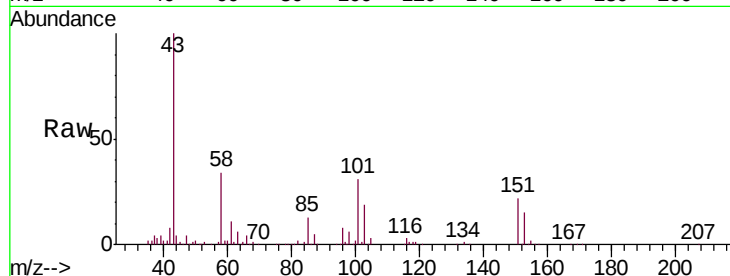
VSTD02524

Tgt Ion: 43 Resp: 136648

Ion Ratio Lower Upper

43 100

58 33.2 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.12

50000

40000

30000

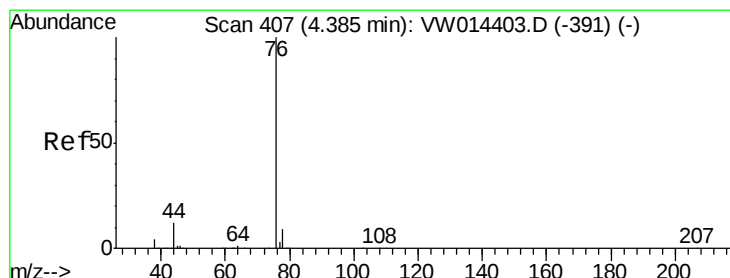
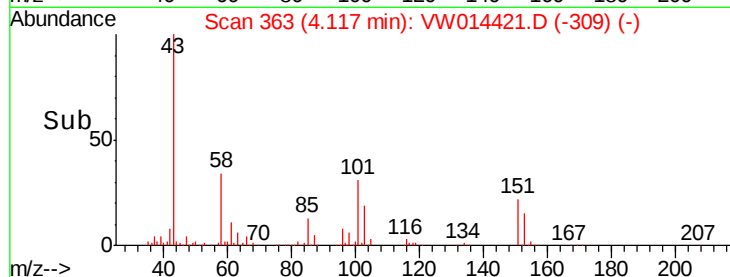
20000

10000

0

Time-->

4.00 4.10 4.20 4.30



#14

Carbon disulfide

Concen: 22.839 ug/L

RT: 4.39 min Scan# 407

Delta R.T. -0.00 min

Lab File: VW014421.D

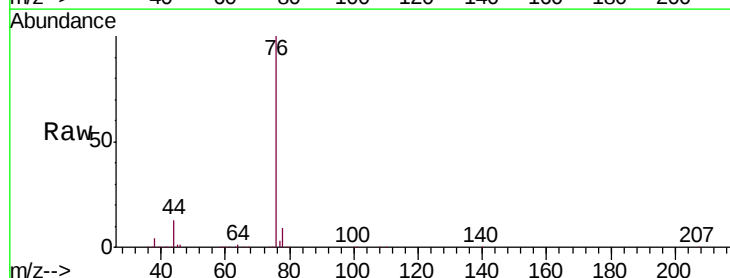
Acq: 18 Dec 2019 04:50

Tgt Ion: 76 Resp: 970850

Ion Ratio Lower Upper

76 100

78 9.1 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

4.39

300000

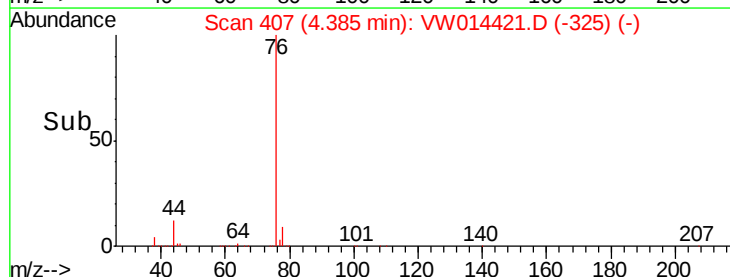
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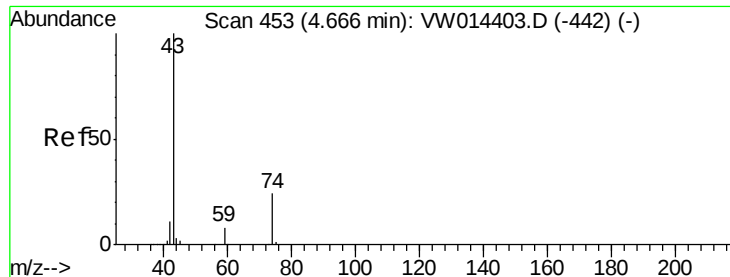
100000

0

Time-->

4.20 4.30 4.40 4.50 4.60

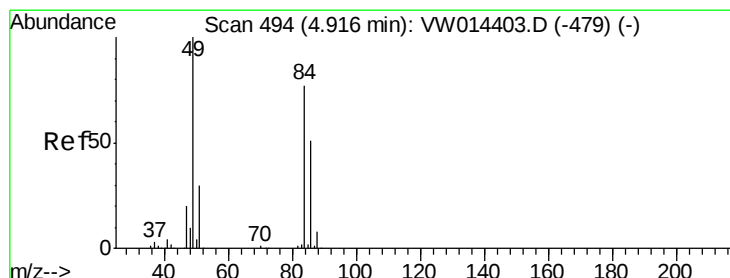
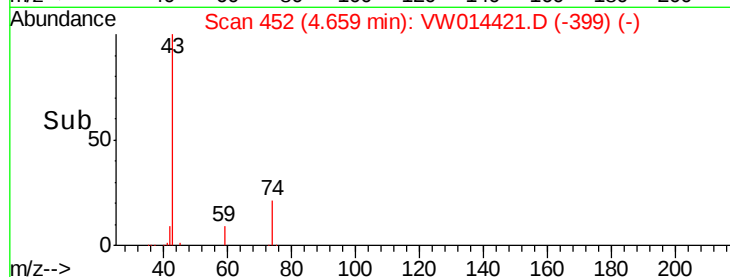
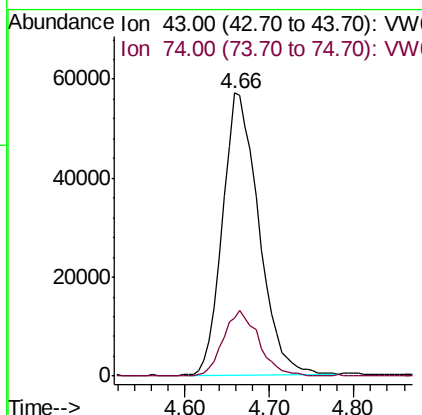
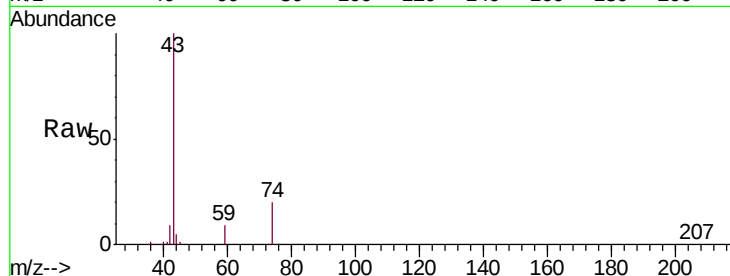




#15
Methyl Acetate
Concen: 22.412 ug/L
RT: 4.66 min Scan# 452
Delta R.T. -0.01 min
Lab File: VW014421.D
Acq: 18 Dec 2019 04:50

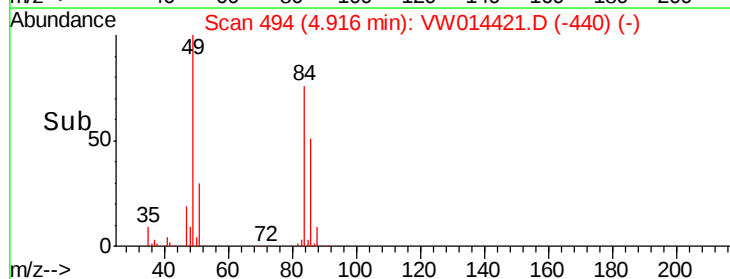
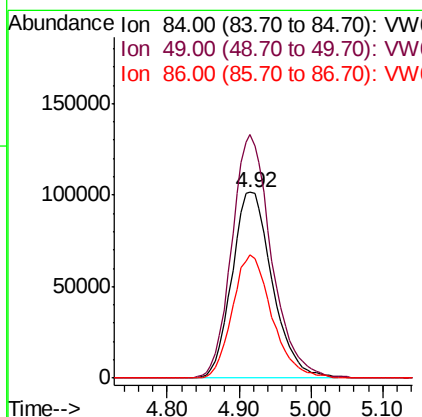
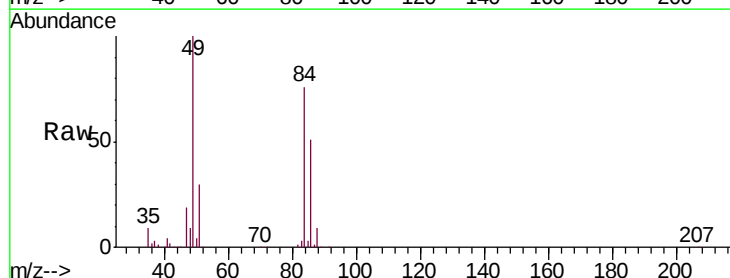
Instrument :
MSVOA_W
ClientSampleId :
VSTD02524

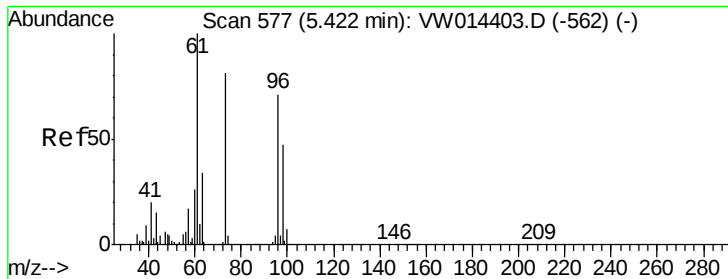
Tgt Ion: 43 Resp: 167399
Ion Ratio Lower Upper
43 100
74 22.9 19.3 28.9



#16
Methylene chloride
Concen: 24.842 ug/L
RT: 4.92 min Scan# 494
Delta R.T. -0.00 min
Lab File: VW014421.D
Acq: 18 Dec 2019 04:50

Tgt Ion: 84 Resp: 395256
Ion Ratio Lower Upper
84 100
49 131.3 84.2 156.4
86 66.5 43.7 81.1

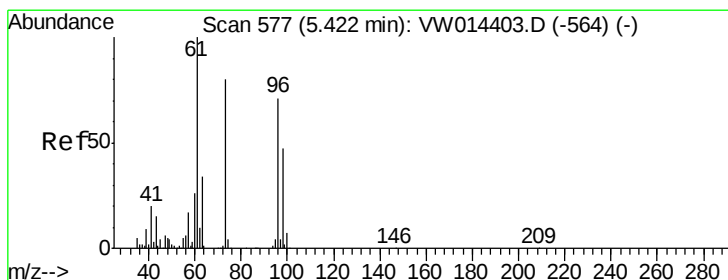
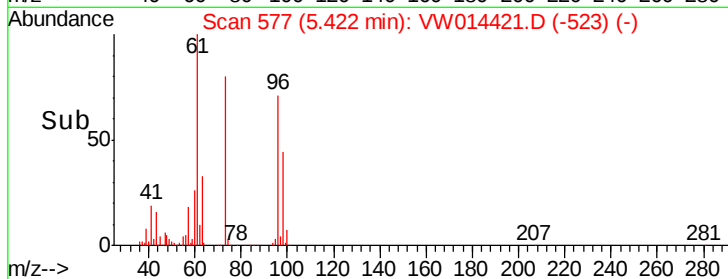
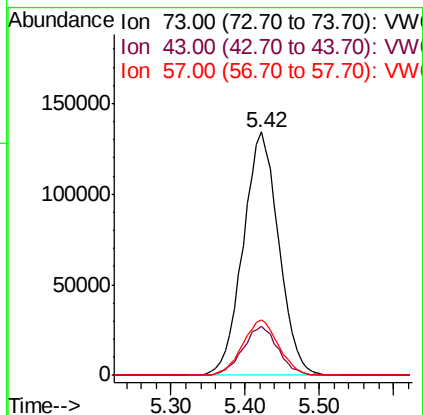
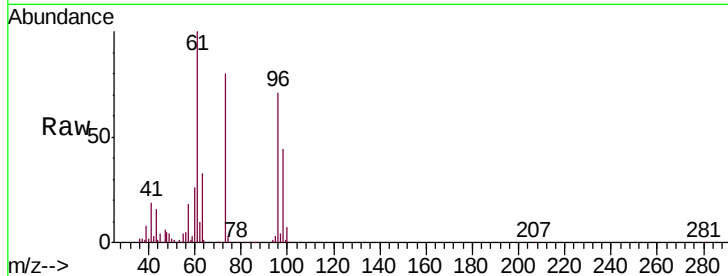




#17
Methyl tert-butyl Ether
Concen: 24.609 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW014421.D
Acq: 18 Dec 2019 04:50

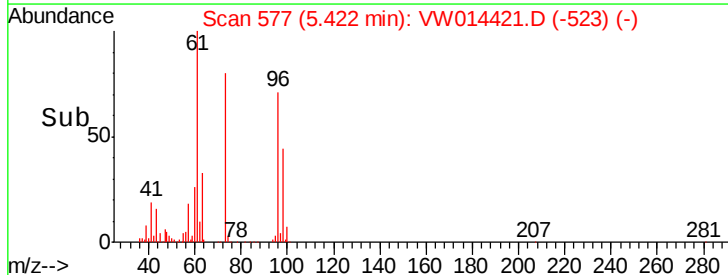
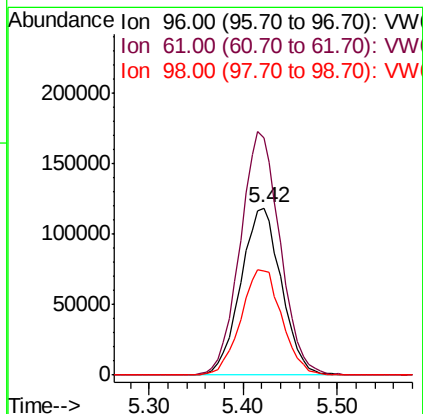
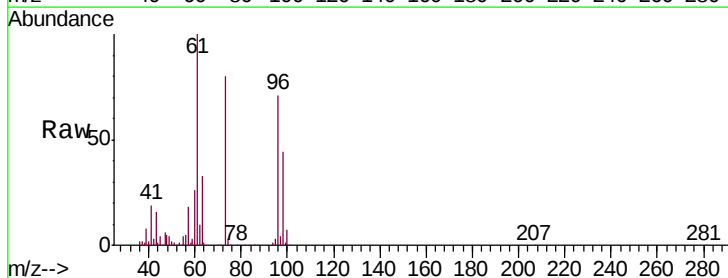
Instrument :
MSVOA_W
ClientSampleId :
VSTD02524

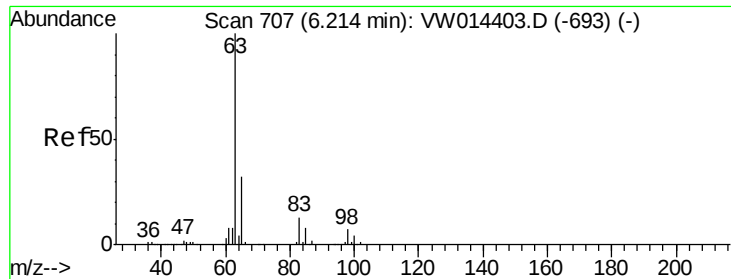
Tgt Ion: 73 Resp: 449793
Ion Ratio Lower Upper
73 100
43 19.9 15.5 23.3
57 23.2 18.2 27.4



#18
trans-1,2-Dichloroethene
Concen: 24.133 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW014421.D
Acq: 18 Dec 2019 04:50

Tgt Ion: 96 Resp: 358212
Ion Ratio Lower Upper
96 100
61 141.6 90.6 168.2
98 62.6 42.9 79.7

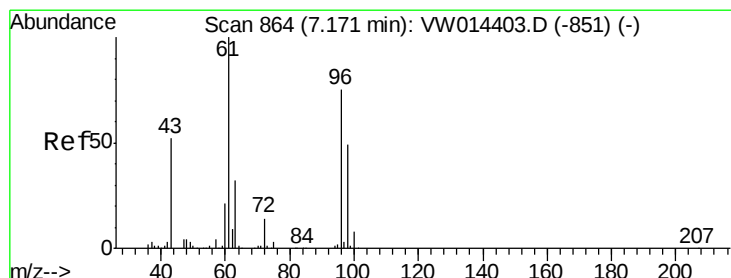
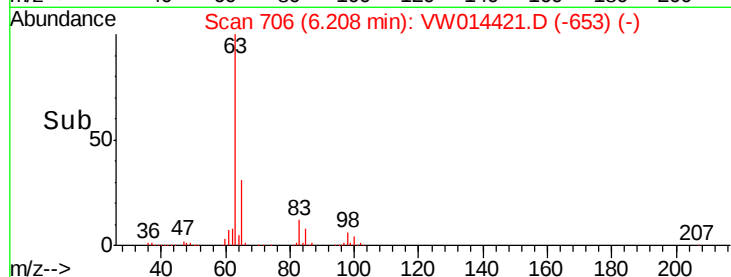
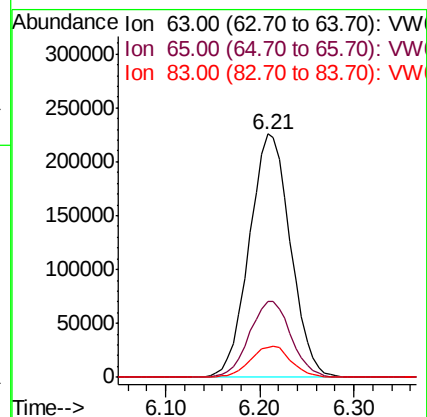
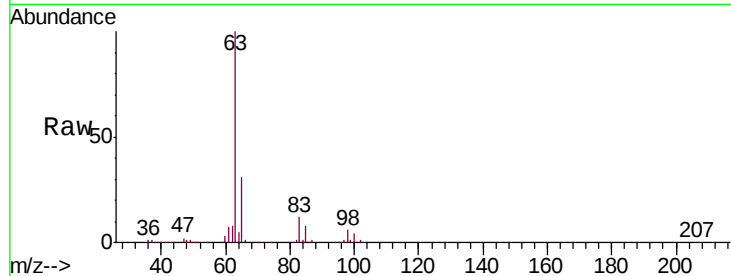




#19
 1,1-Dichloroethane
 Concen: 25.794 ug/L
 RT: 6.21 min Scan# 706
 Delta R.T. -0.01 min
 Lab File: VW014421.D
 Acq: 18 Dec 2019 04:50

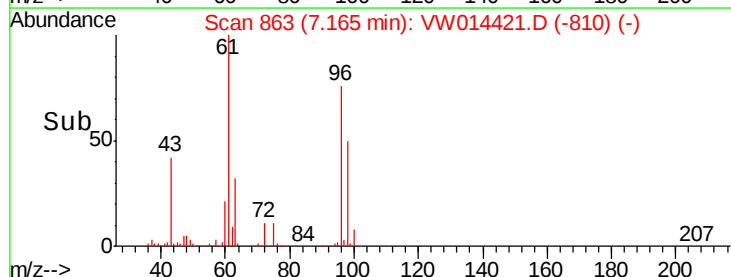
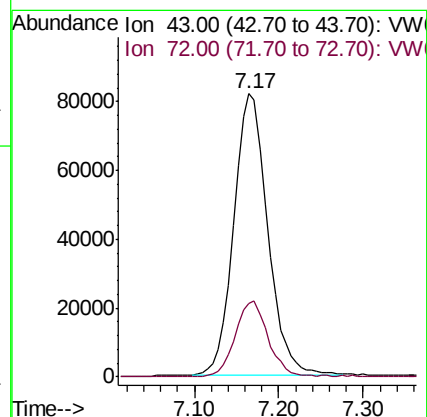
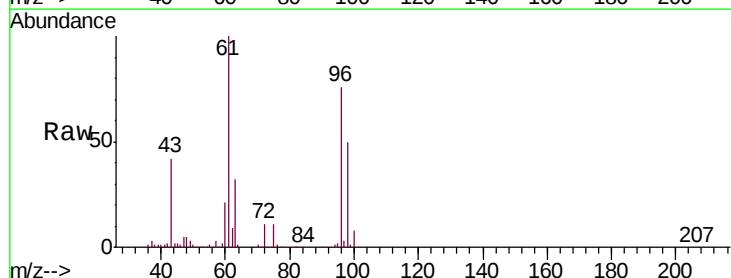
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02524

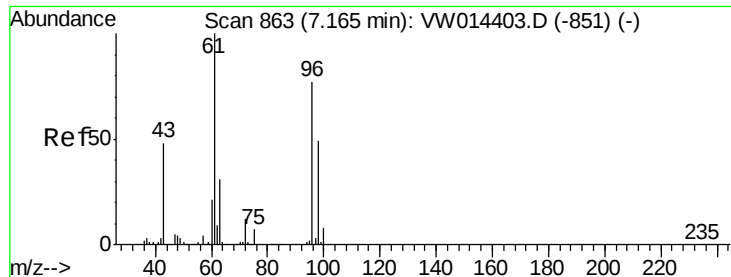
Tgt Ion: 63 Resp: 687860
 Ion Ratio Lower Upper
 63 100
 65 30.9 22.1 41.1
 83 12.5 9.0 16.6



#21
 2-Butanone
 Concen: 42.067 ug/L
 RT: 7.17 min Scan# 863
 Delta R.T. -0.01 min
 Lab File: VW014421.D
 Acq: 18 Dec 2019 04:50

Tgt Ion: 43 Resp: 223021
 Ion Ratio Lower Upper
 43 100
 72 26.0 14.1 42.2



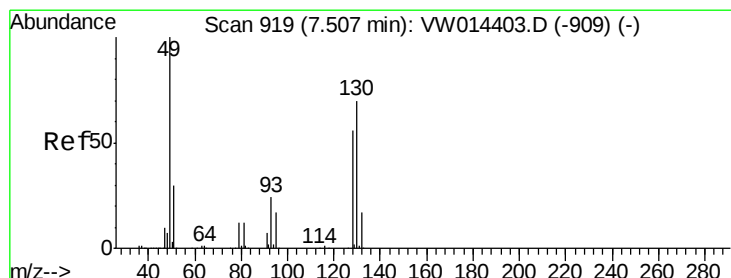
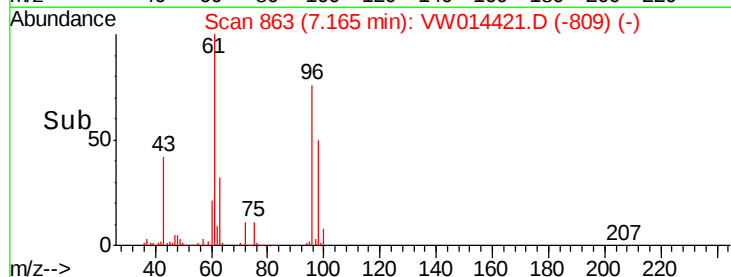
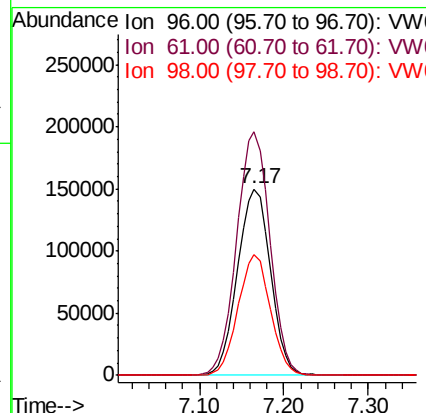
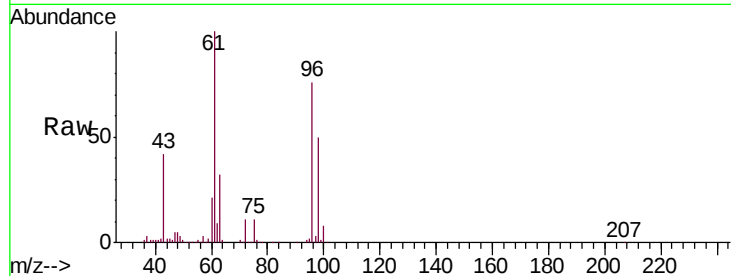


#22

cis-1,2-Dichloroethene
Concen: 25.142 ug/L
RT: 7.17 min Scan# 863
Delta R.T. -0.00 min
Lab File: VW014421.D
Acq: 18 Dec 2019 04:50

Instrument :
MSVOA_W
ClientSampleId :
VSTD02524

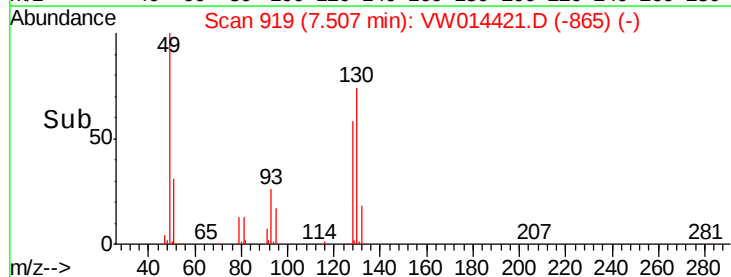
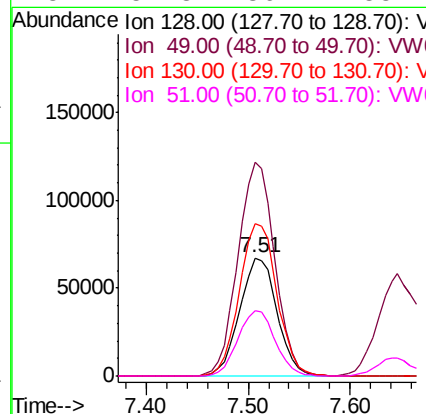
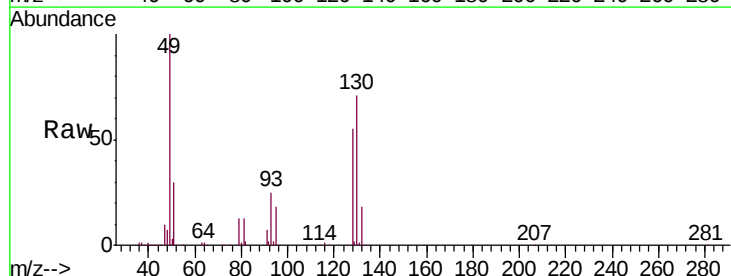
Tgt Ion: 96 Resp: 397088
Ion Ratio Lower Upper
96 100
61 130.8 86.9 161.5
98 65.0 45.5 84.5

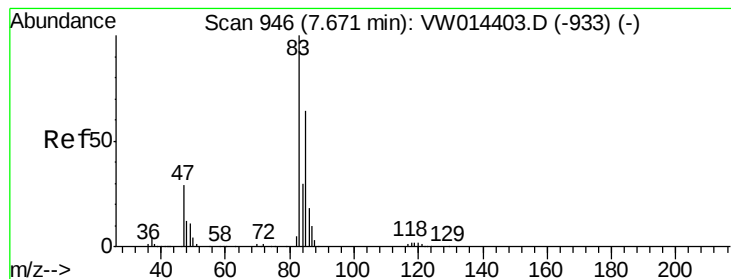


#23

Bromochloromethane
Concen: 23.567 ug/L
RT: 7.51 min Scan# 919
Delta R.T. -0.00 min
Lab File: VW014421.D
Acq: 18 Dec 2019 04:50

Tgt Ion: 128 Resp: 171216
Ion Ratio Lower Upper
128 100
49 180.4 95.1 176.5#
130 129.0 85.0 158.0
51 54.8 36.7 55.1





#25

Chloroform

Concen: 25.950 ug/L

RT: 7.67 min Scan# 946

Delta R.T. -0.00 min

Lab File: VW014421.D

Acq: 18 Dec 2019 04:50

Instrument :

MSVOA_W

ClientSampleId :

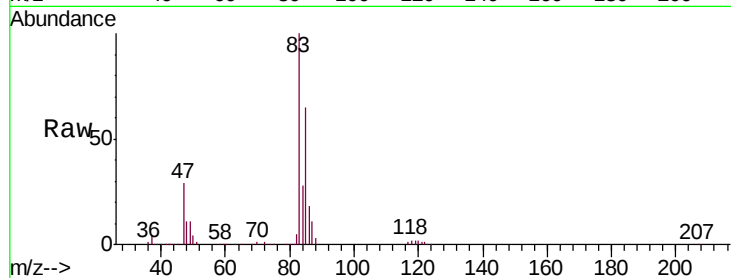
VSTD02524

Tgt Ion: 83 Resp: 672473

Ion Ratio Lower Upper

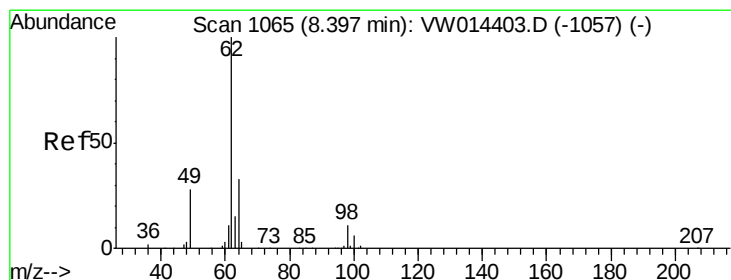
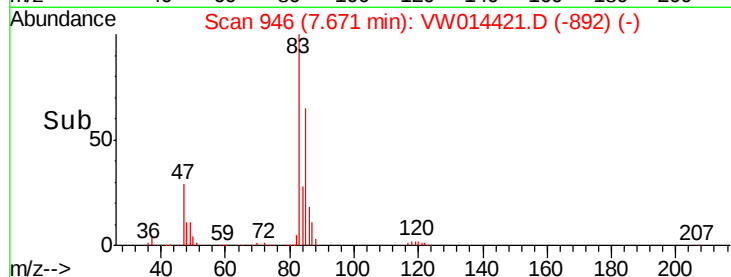
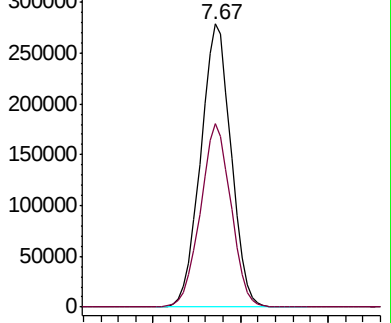
83 100

85 65.2 46.1 85.7



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW



#27

1,2-Dichloroethane

Concen: 25.438 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VW014421.D

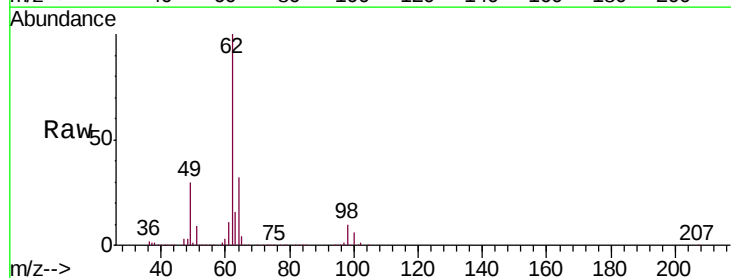
Acq: 18 Dec 2019 04:50

Tgt Ion: 62 Resp: 431660

Ion Ratio Lower Upper

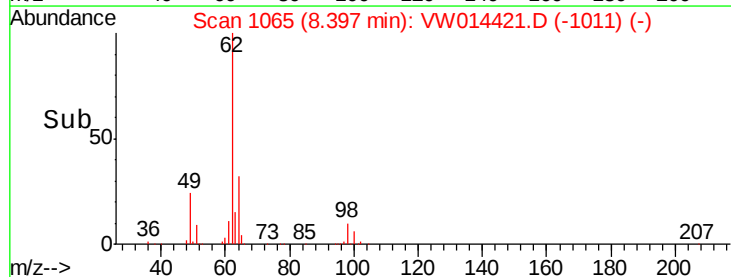
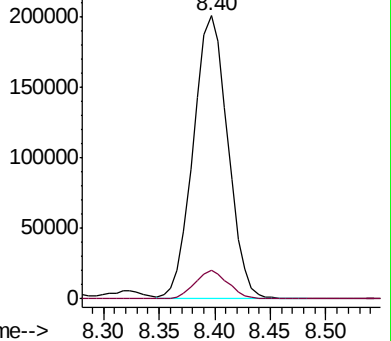
62 100

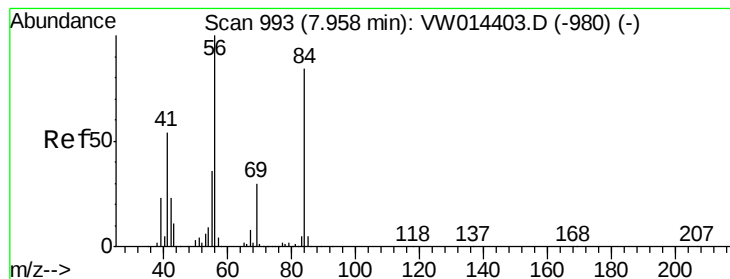
98 10.1 9.3 13.9



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 98.00 (97.70 to 98.70): VW





#30

Cyclohexane

Concen: 24.544 ug/L

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW014421.D

Acq: 18 Dec 2019 04:50

Instrument :

MSVOA_W

ClientSampleID :

VSTD02524

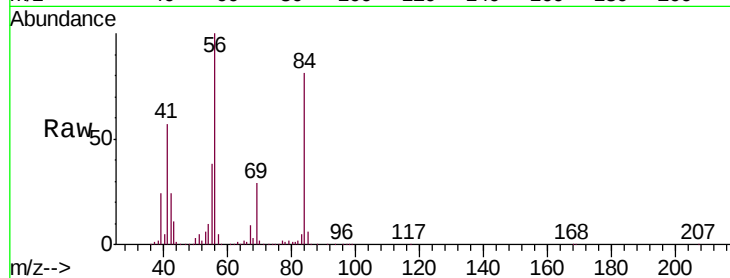
Tgt Ion: 56 Resp: 582873

Ion Ratio Lower Upper

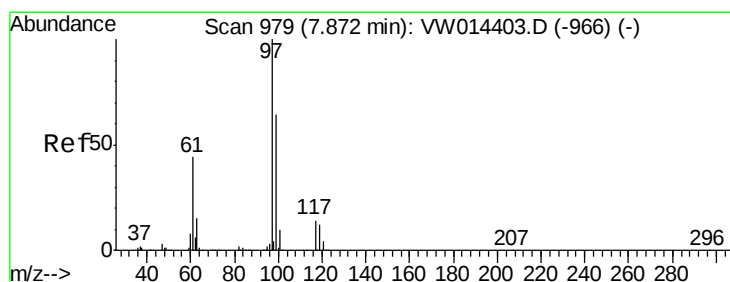
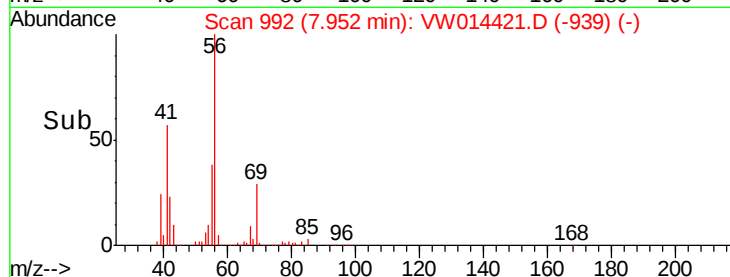
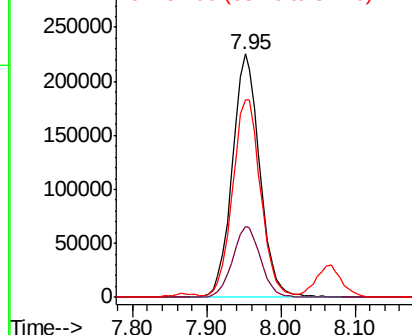
56 100

69 29.7 24.6 37.0

84 83.5 70.2 105.2



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: 26.055 ug/L

RT: 7.87 min Scan# 978

Delta R.T. -0.01 min

Lab File: VW014421.D

Acq: 18 Dec 2019 04:50

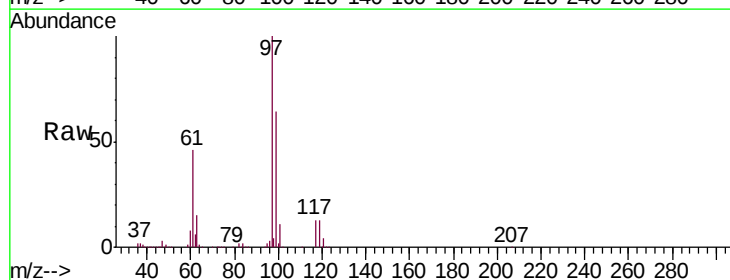
Tgt Ion: 97 Resp: 497857

Ion Ratio Lower Upper

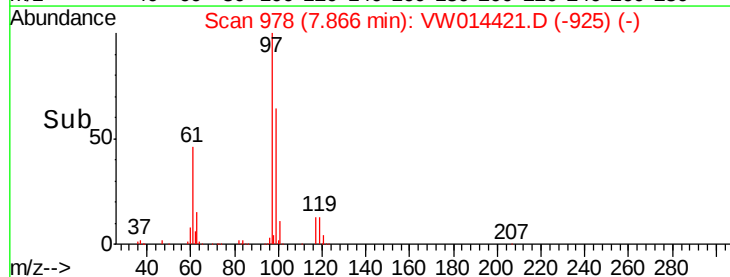
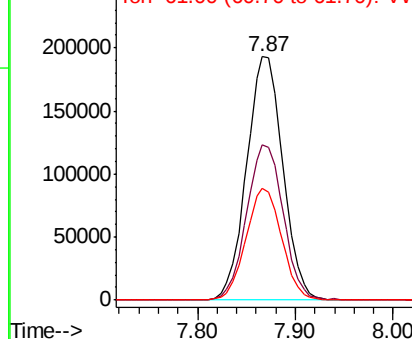
97 100

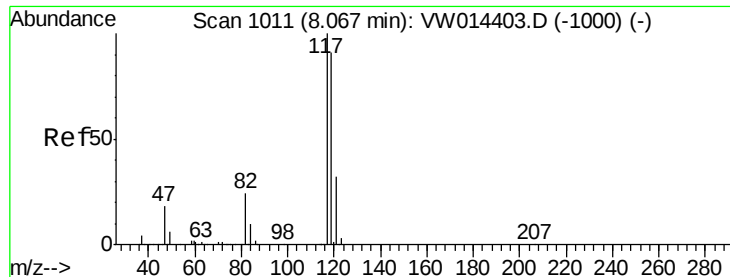
99 64.5 51.1 76.7

61 45.4 32.8 49.2



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: 25.043 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VW014421.D

Acq: 18 Dec 2019 04:50

Instrument :

MSVOA_W

ClientSampleId :

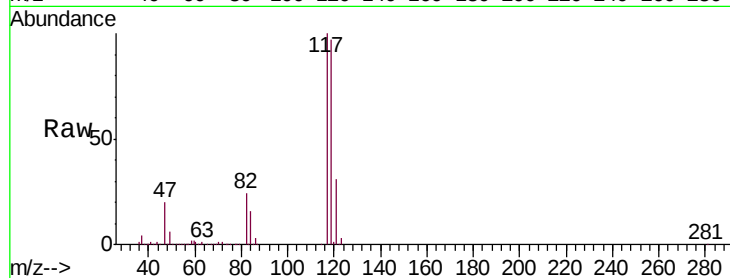
VSTD02524

Tgt Ion:117 Resp: 454043

Ion Ratio Lower Upper

117 100

119 96.0 76.7 115.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

8.07

200000

150000

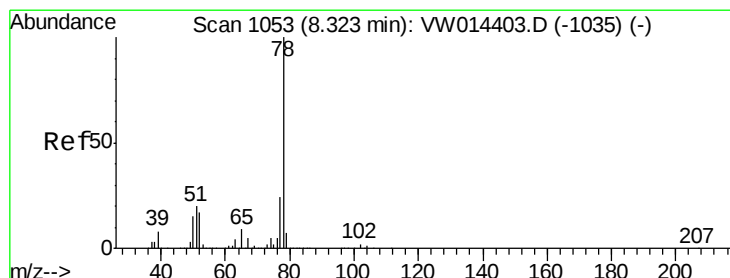
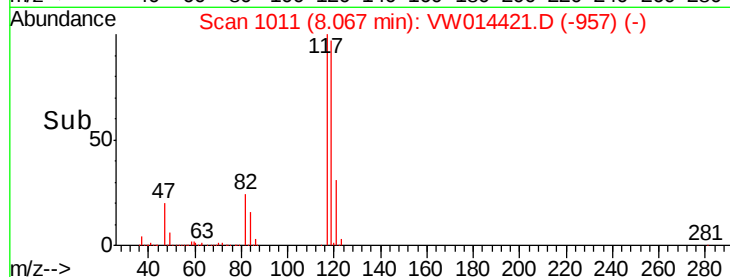
100000

50000

0

8.00 8.10 8.20

Time-->



#34

Benzene

Concen: 25.694 ug/L

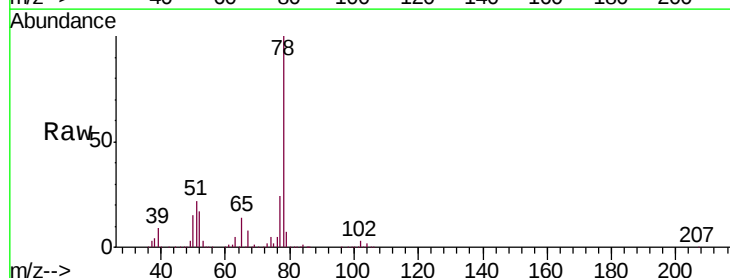
RT: 8.32 min Scan# 1052

Delta R.T. -0.01 min

Lab File: VW014421.D

Acq: 18 Dec 2019 04:50

Tgt Ion: 78 Resp: 1547861



Abundance Ion 78.00 (77.70 to 78.70): VW

800000

600000

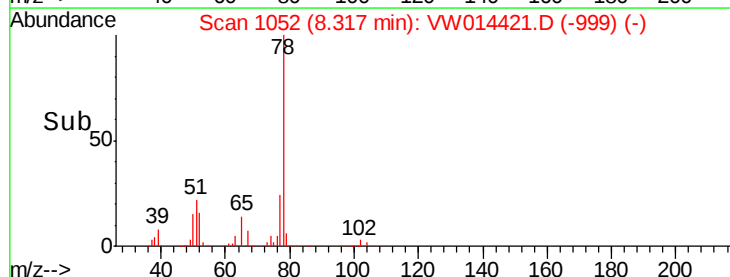
400000

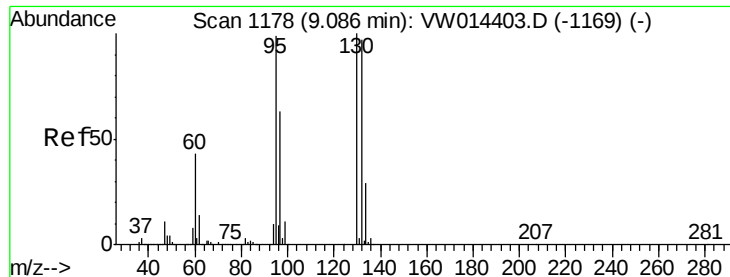
200000

0

8.20 8.30 8.40

Time-->





#35

Trichloroethene

Concen: 24.488 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. -0.00 min

Lab File: VW014421.D

Acq: 18 Dec 2019 04:50

Instrument :

MSVOA_W

ClientSampleId :

VSTD02524

Tgt Ion: 95 Resp: 377455

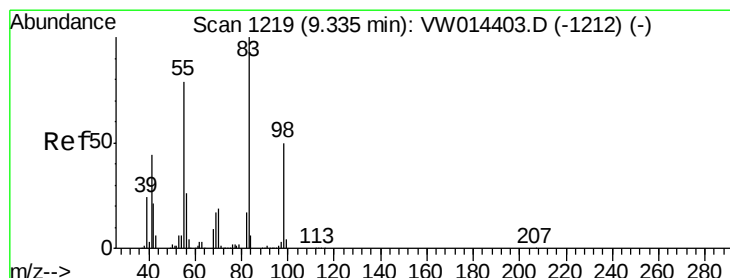
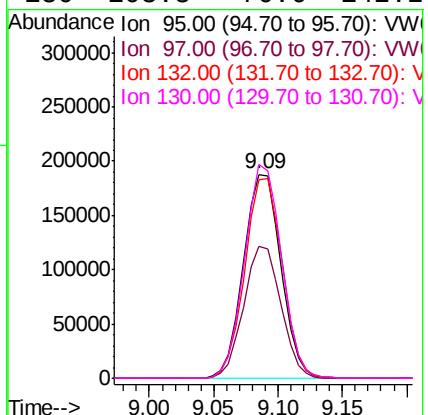
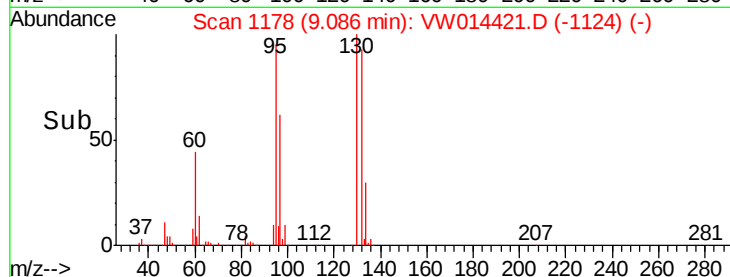
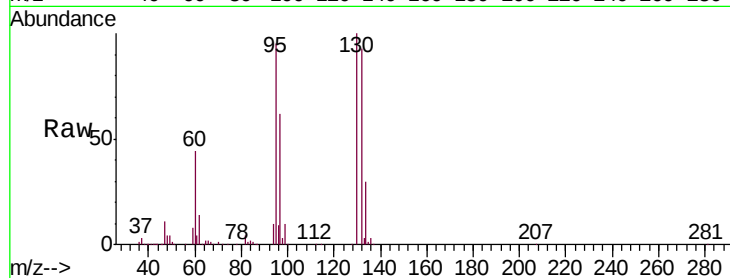
Ion Ratio Lower Upper

95 100

97 64.5 45.1 83.9

132 98.5 73.7 136.9

130 103.3 76.6 142.2



#36

Methylcyclohexane

Concen: 23.739 ug/L

RT: 9.33 min Scan# 1218

Delta R.T. -0.01 min

Lab File: VW014421.D

Acq: 18 Dec 2019 04:50

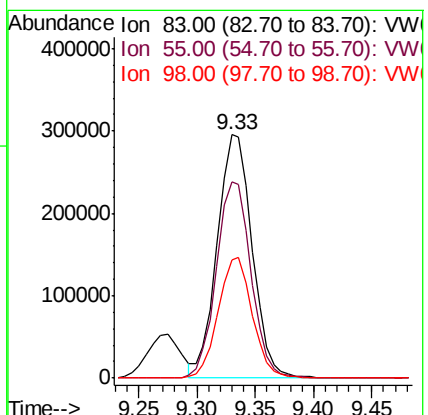
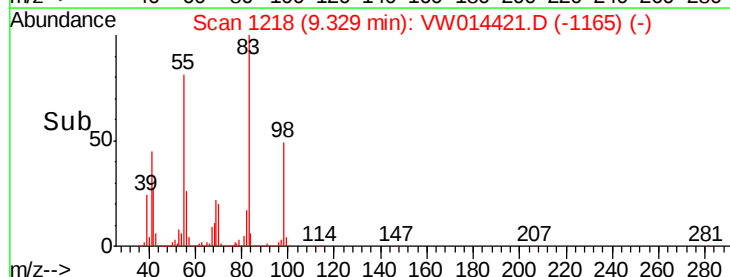
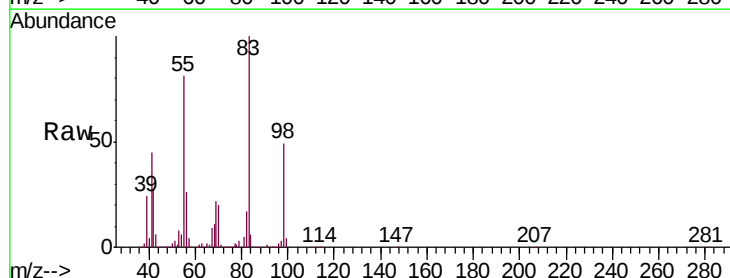
Tgt Ion: 83 Resp: 614881

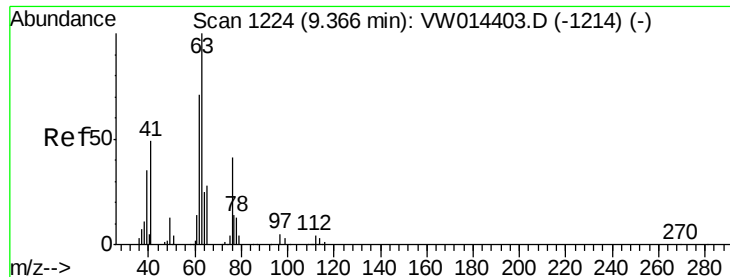
Ion Ratio Lower Upper

83 100

55 80.0 59.8 89.8

98 48.3 39.5 59.3

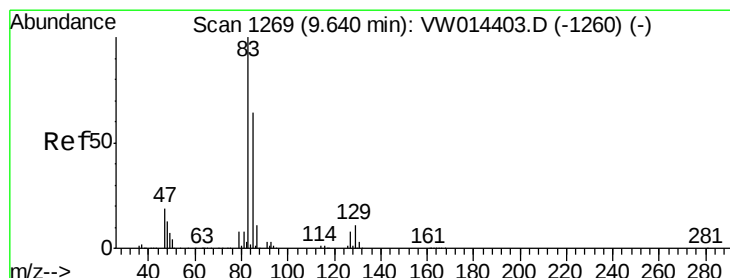
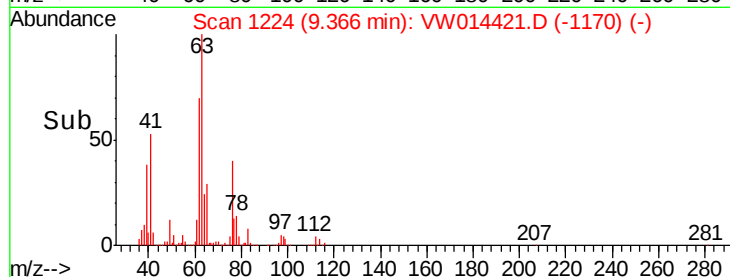
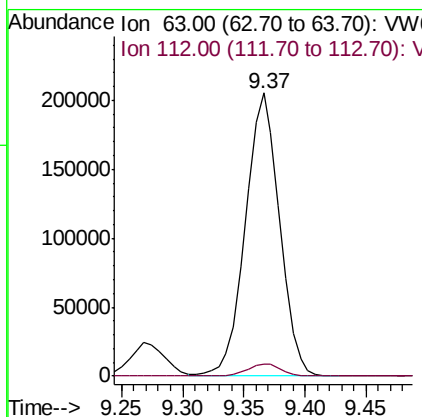
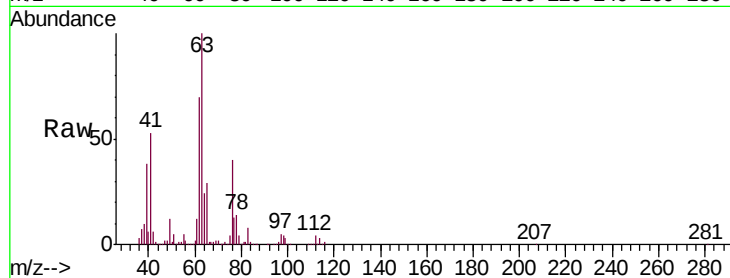




#40
 1,2-Dichloropropane
 Concen: 25.734 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. -0.00 min
 Lab File: VW014421.D
 Acq: 18 Dec 2019 04:50

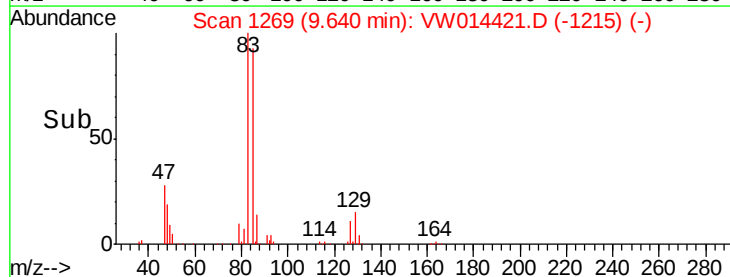
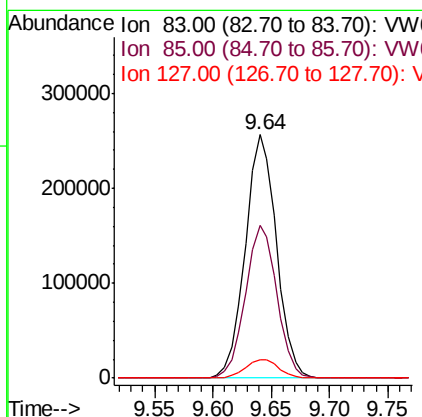
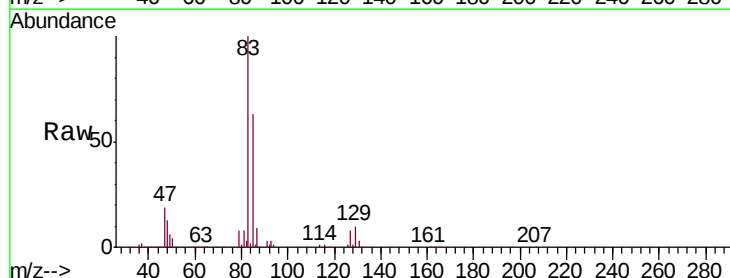
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02524

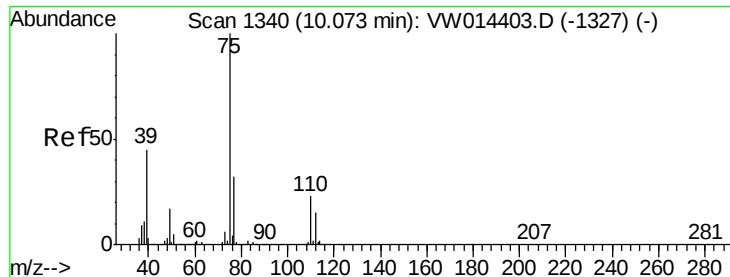
Tgt Ion: 63 Resp: 398285
 Ion Ratio Lower Upper
 63 100
 112 4.4 3.9 5.9



#41
 Bromodichloromethane
 Concen: 25.416 ug/L
 RT: 9.64 min Scan# 1269
 Delta R.T. -0.00 min
 Lab File: VW014421.D
 Acq: 18 Dec 2019 04:50

Tgt Ion: 83 Resp: 478034
 Ion Ratio Lower Upper
 83 100
 85 63.0 45.1 83.7
 127 7.8 7.4 11.0





#42

cis-1,3-Dichloropropene

Concen: 24.280 ug/L

RT: 10.07 min Scan# 1339

Delta R.T. -0.01 min

Lab File: VW014421.D

Acq: 18 Dec 2019 04:50

Instrument :

MSVOA_W

ClientSampleId :

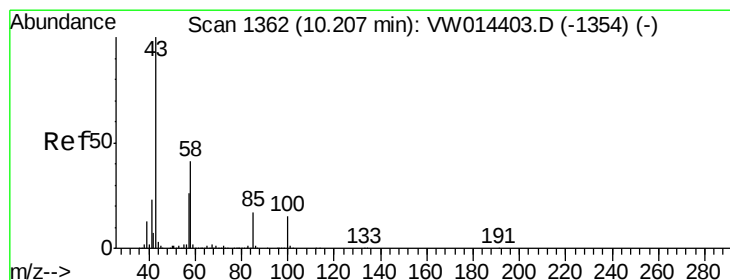
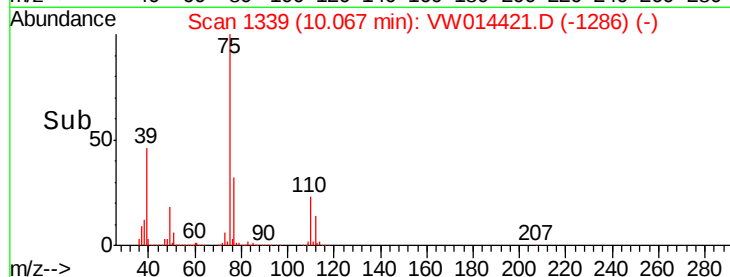
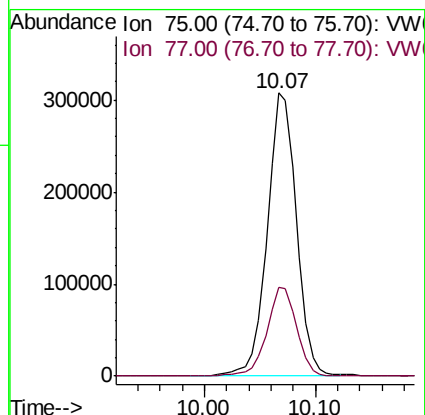
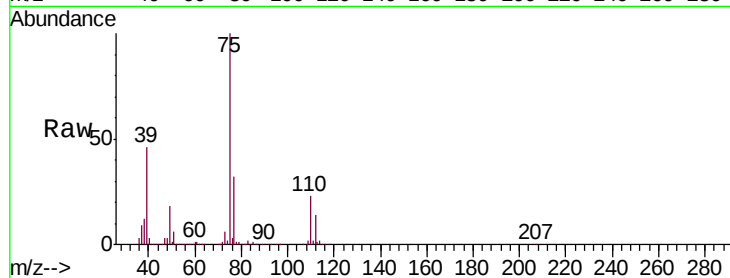
VSTD02524

Tgt Ion: 75 Resp: 562740

Ion Ratio Lower Upper

75 100

77 31.6 22.1 41.1



#43

4-Methyl-2-pentanone

Concen: 47.101 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW014421.D

Acq: 18 Dec 2019 04:50

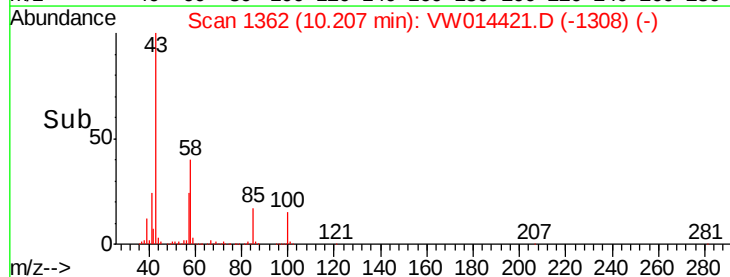
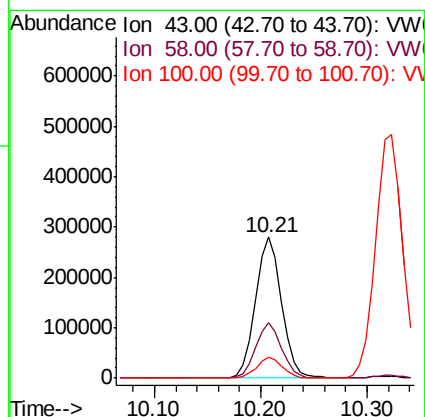
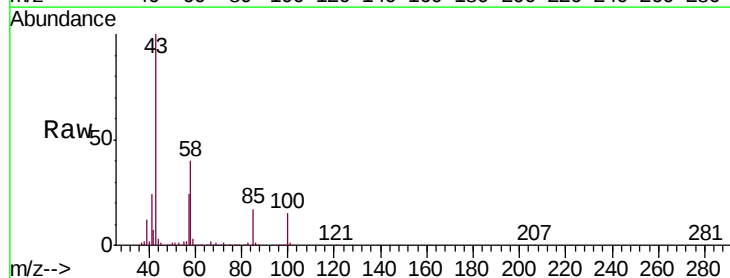
Tgt Ion: 43 Resp: 480701

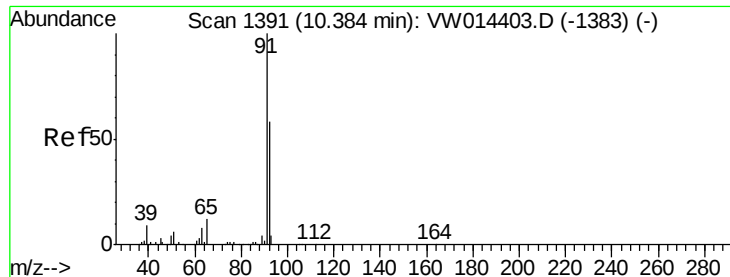
Ion Ratio Lower Upper

43 100

58 39.2 32.6 49.0

100 14.9 13.8 20.8





#44

Toluene

Concen: 25.703 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW014421.D

Acq: 18 Dec 2019 04:50

Instrument :

MSVOA_W

ClientSampleId :

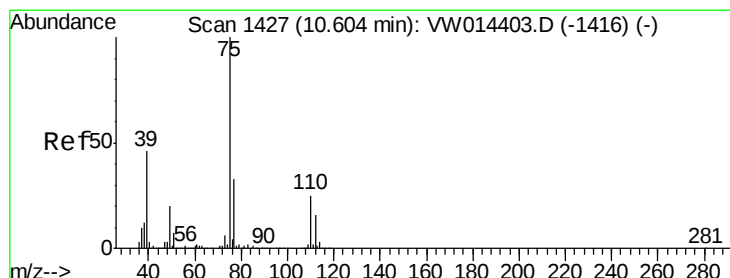
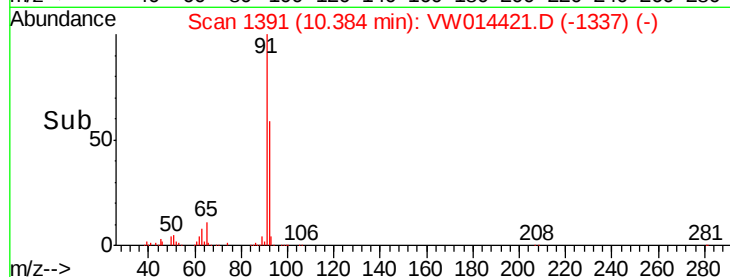
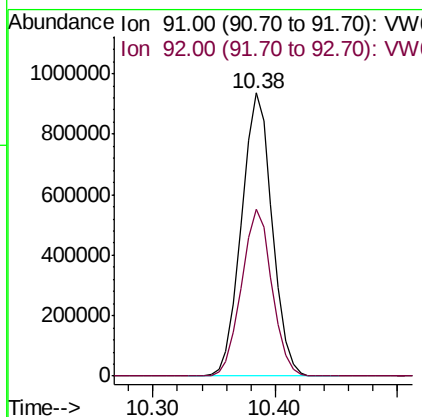
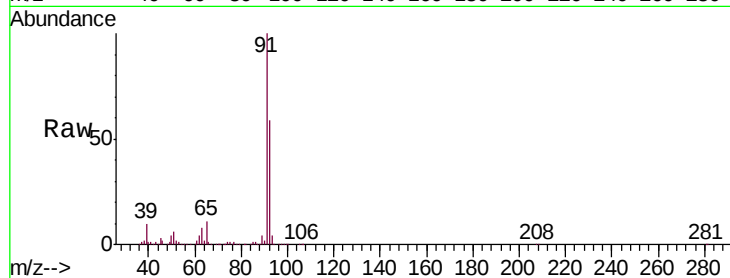
VSTD02524

Tgt Ion: 91 Resp: 1623374

Ion Ratio Lower Upper

91 100

92 58.9 40.7 75.7



#45

trans-1,3-Dichloropropene

Concen: 23.476 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW014421.D

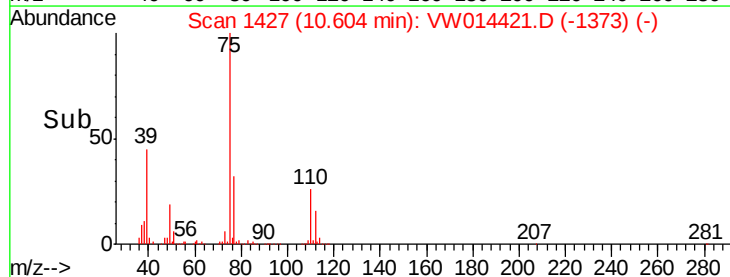
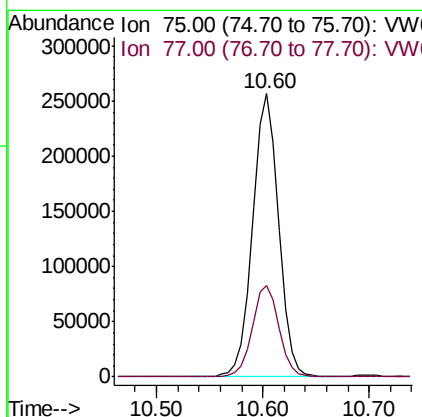
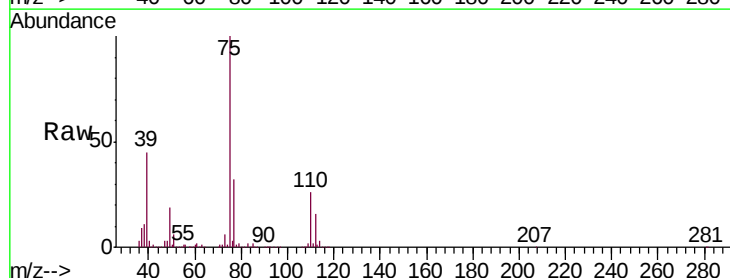
Acq: 18 Dec 2019 04:50

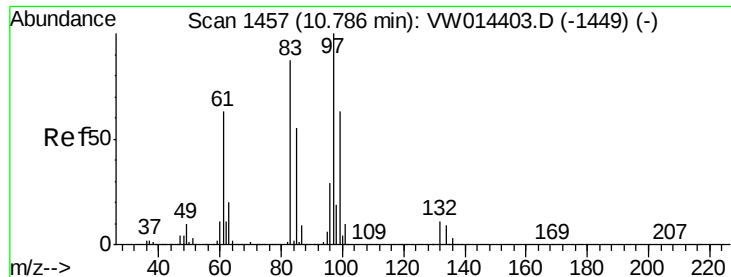
Tgt Ion: 75 Resp: 440453

Ion Ratio Lower Upper

75 100

77 32.1 21.8 40.6





#46

1,1,2-Trichloroethane

Concen: 23.338 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW014421.D

Acq: 18 Dec 2019 04:50

Instrument :

MSVOA_W

ClientSampleId :

VSTD02524

Tgt Ion: 97 Resp: 270665

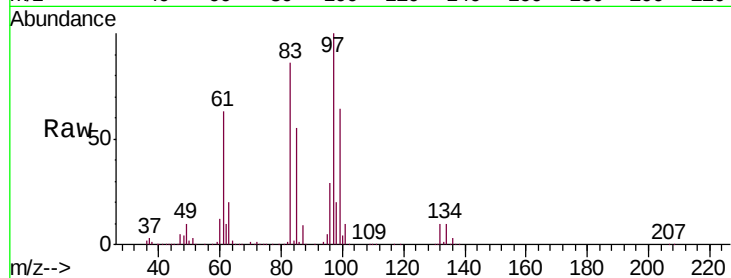
Ion Ratio Lower Upper

97 100

83 85.9 58.9 109.5

85 54.7 38.1 70.9

99 63.6 46.5 86.3



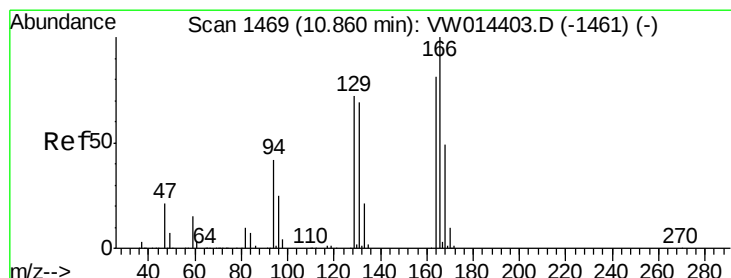
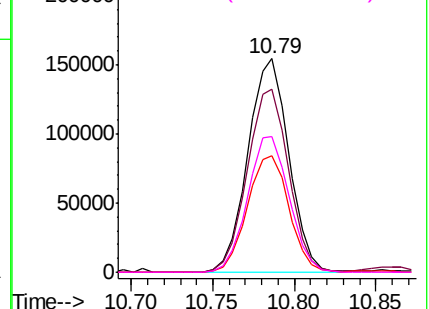
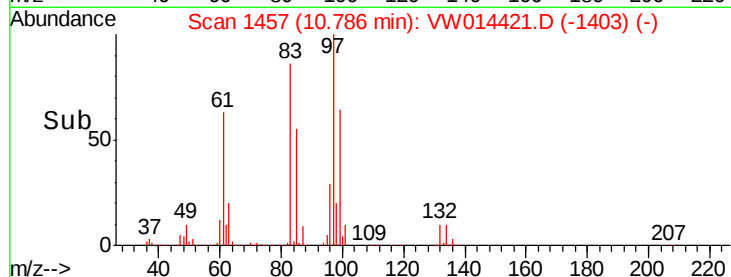
Abundance

Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47

Tetrachloroethene

Concen: 23.164 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW014421.D

Acq: 18 Dec 2019 04:50

Tgt Ion: 164 Resp: 297588

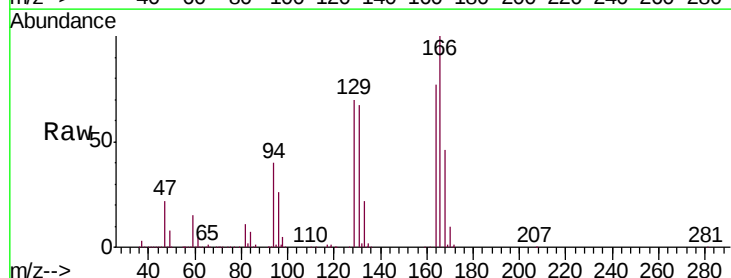
Ion Ratio Lower Upper

164 100

129 91.1 60.6 112.6

131 87.6 59.1 109.7

166 130.0 90.8 168.6



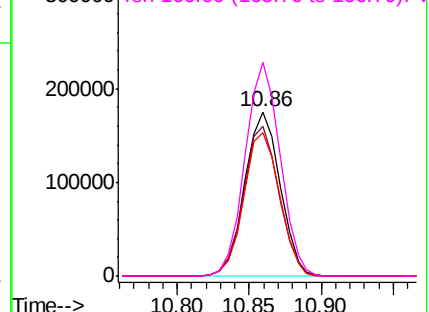
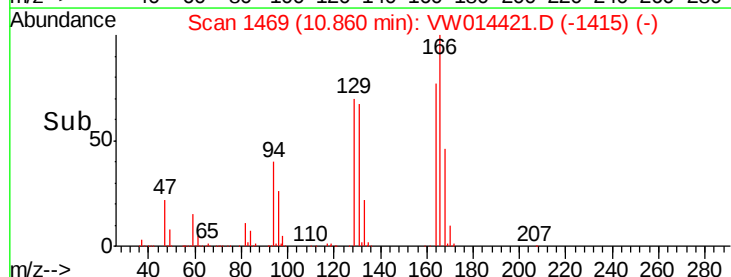
Abundance

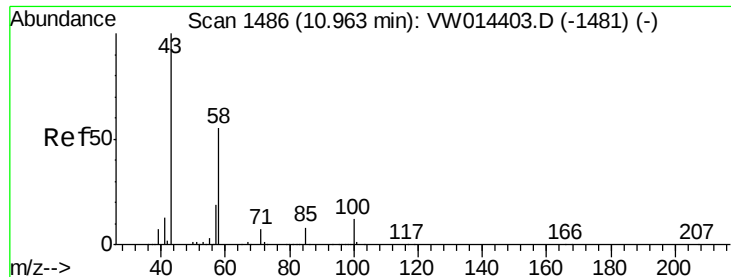
Ion 164.00 (163.70 to 164.70): V

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

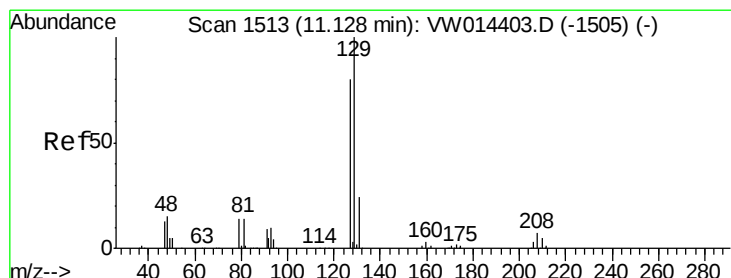
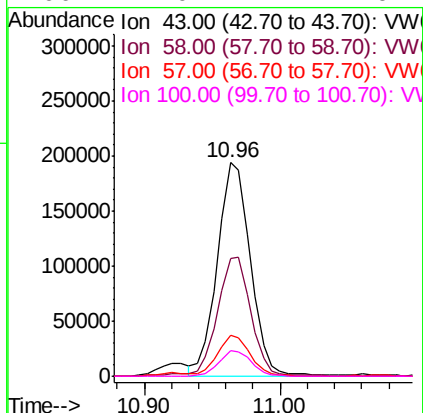
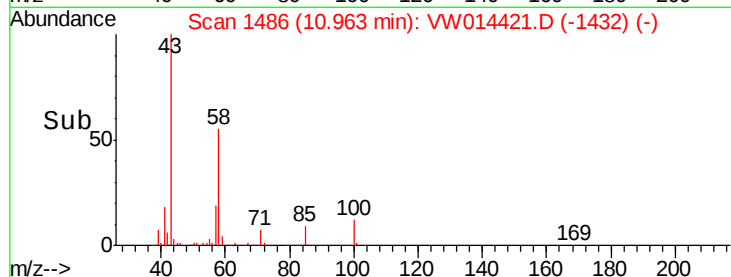
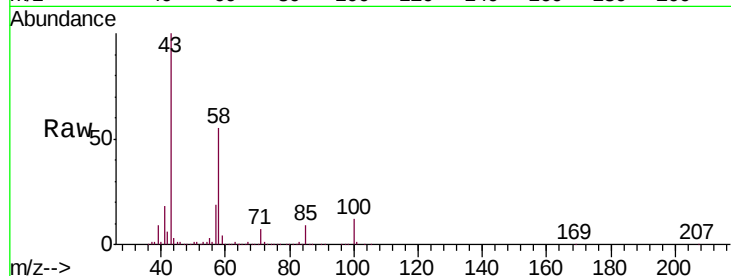




#49
2-Hexanone
Concen: 45.083 ug/L
RT: 10.96 min Scan# 1486
Delta R.T. -0.00 min
Lab File: VW014421.D
Acq: 18 Dec 2019 04:50

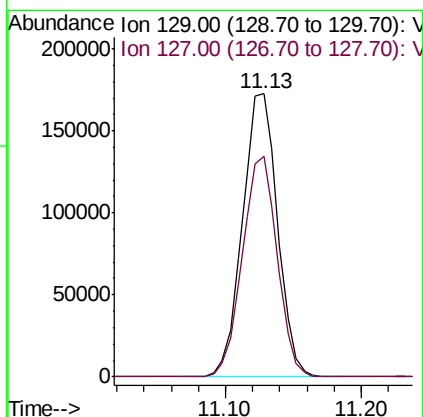
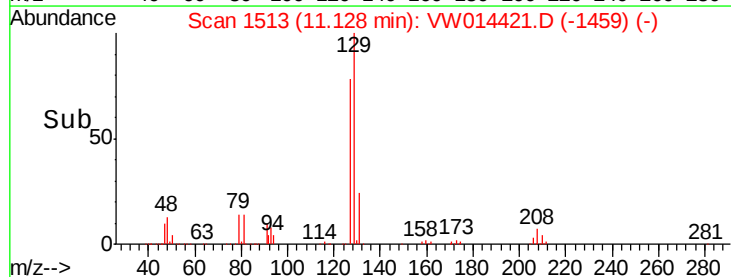
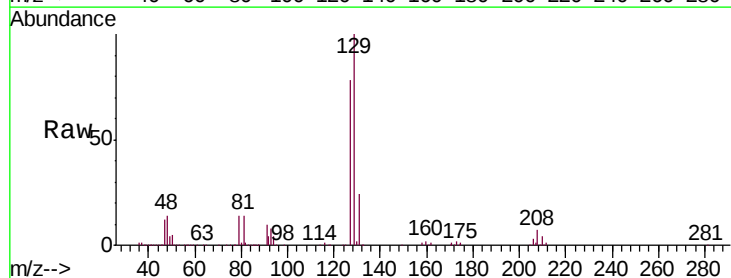
Instrument :
MSVOA_W
ClientSampleId :
VSTD02524

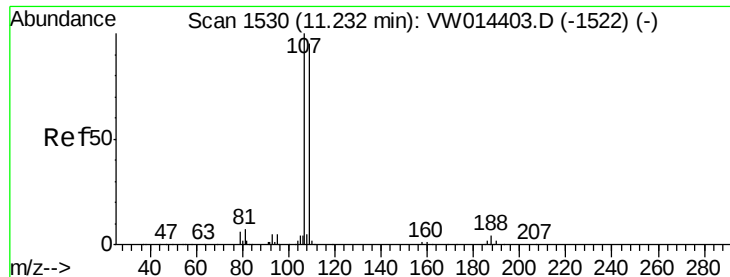
Tgt Ion: 43 Resp: 327561
Ion Ratio Lower Upper
43 100
58 55.9 44.4 66.6
57 18.8 16.5 24.7
100 12.0 11.1 16.7



#50
Dibromochloromethane
Concen: 23.963 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW014421.D
Acq: 18 Dec 2019 04:50

Tgt Ion: 129 Resp: 311906
Ion Ratio Lower Upper
129 100
127 78.1 54.9 102.1

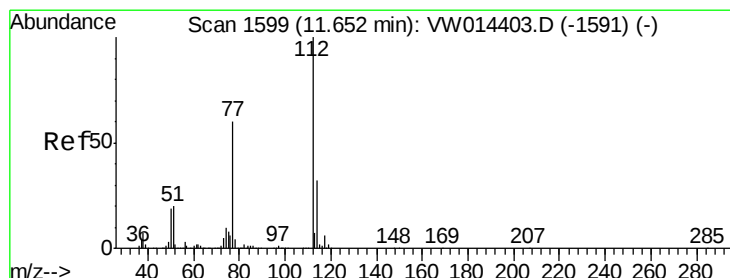
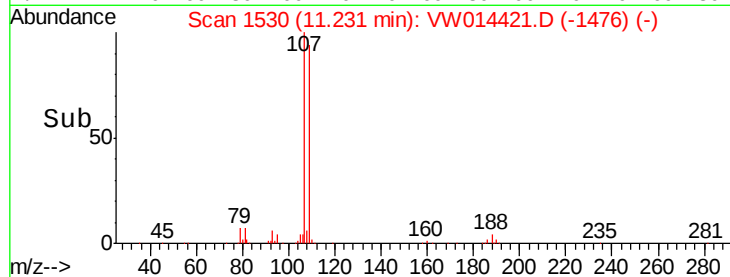
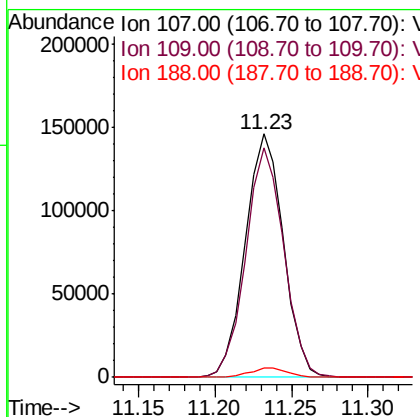
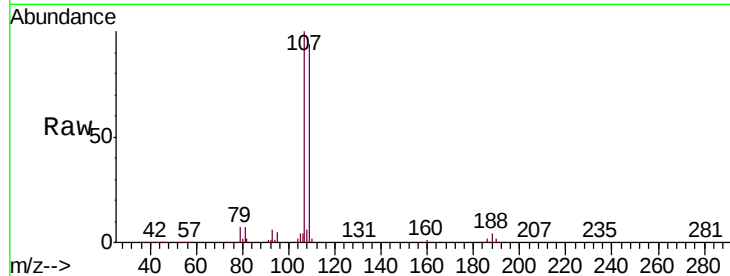




#51
1,2-Dibromoethane
Concen: 23.077 ug/L
RT: 11.23 min Scan# 1530
Delta R.T. -0.00 min
Lab File: VW014421.D
Acq: 18 Dec 2019 04:50

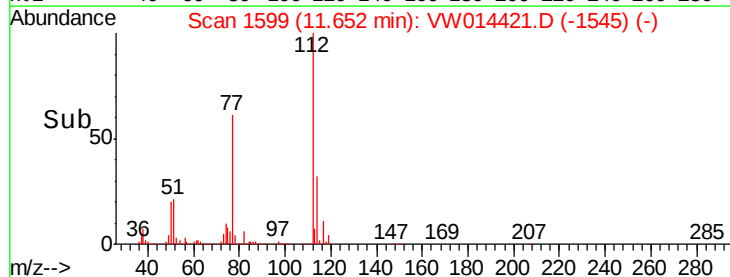
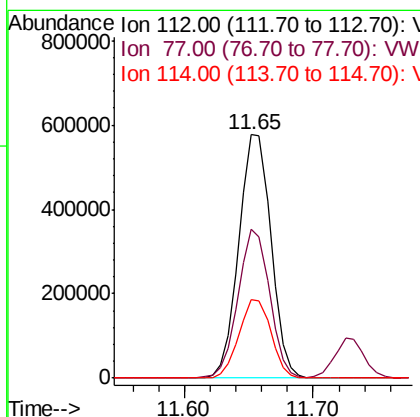
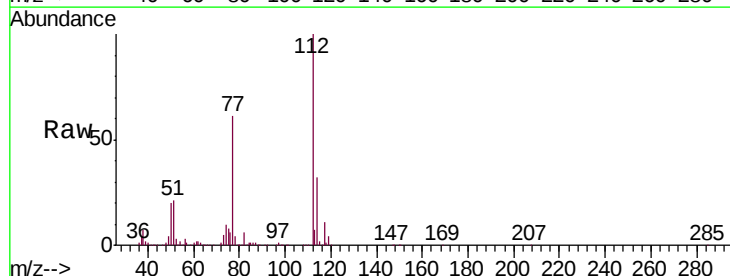
Instrument :
MSVOA_W
ClientSampleId :
VSTD02524

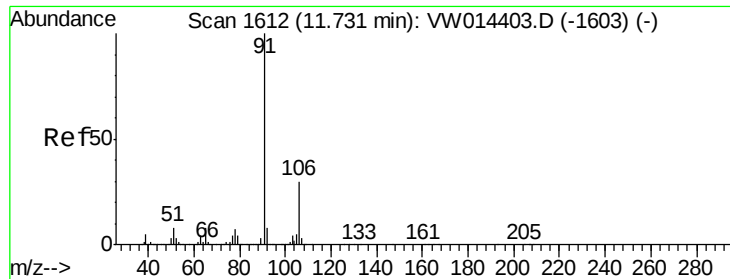
Tgt Ion	Ratio	Lower	Upper
107	100		
109	94.4	64.6	120.0
188	3.7	3.9	5.9#



#52
Chlorobenzene
Concen: 24.512 ug/L
RT: 11.65 min Scan# 1599
Delta R.T. -0.00 min
Lab File: VW014421.D
Acq: 18 Dec 2019 04:50

Tgt Ion	Ratio	Lower	Upper
112	100		
77	61.0	42.2	63.4
114	32.1	22.5	41.9





#53

Ethylbenzene

Concen: 25.648 ug/L

RT: 11.73 min Scan# 1611

Delta R.T. -0.01 min

Lab File: VW014421.D

Acq: 18 Dec 2019 04:50

Instrument :

MSVOA_W

ClientSampleId :

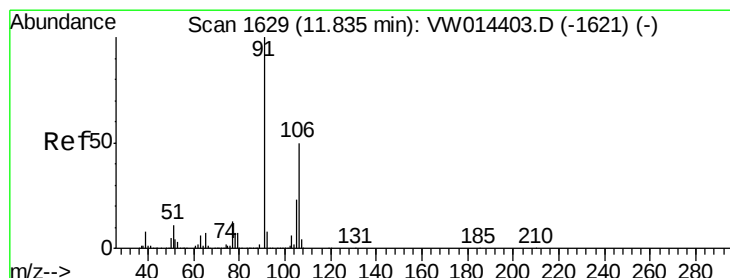
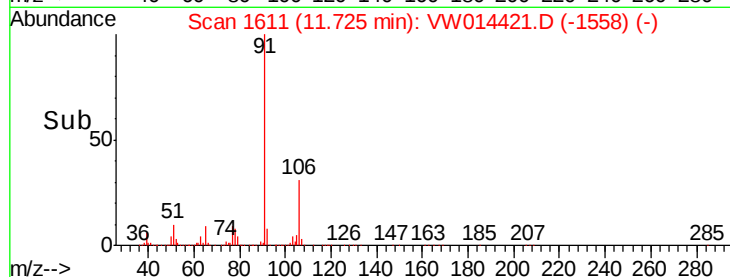
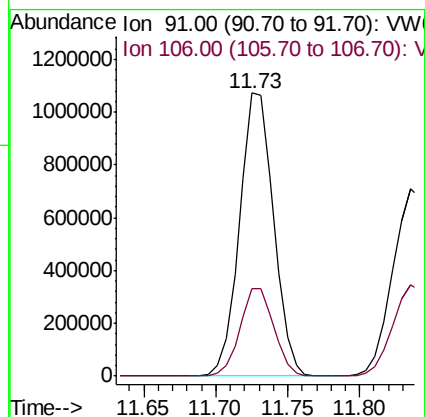
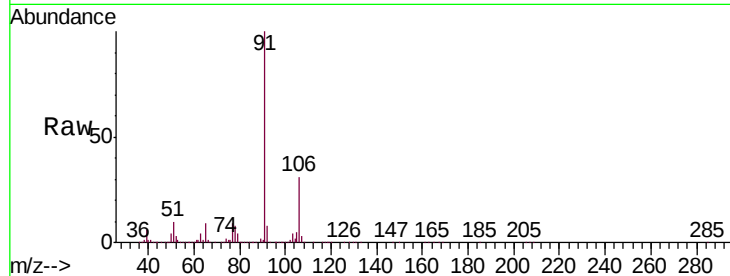
VSTD02524

Tgt Ion: 91 Resp: 1757726

Ion Ratio Lower Upper

91 100

106 30.8 22.3 41.5



#54

m,p-Xylene

Concen: 25.197 ug/L

RT: 11.84 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VW014421.D

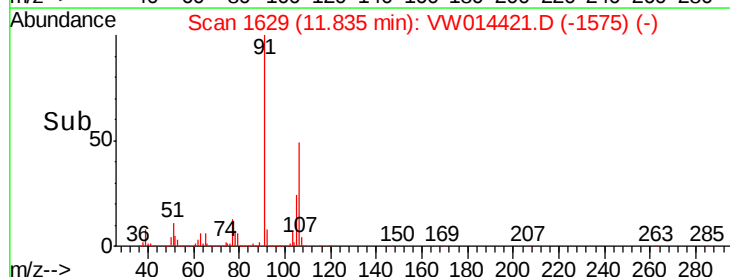
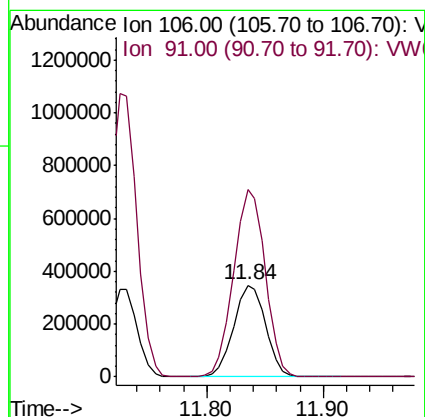
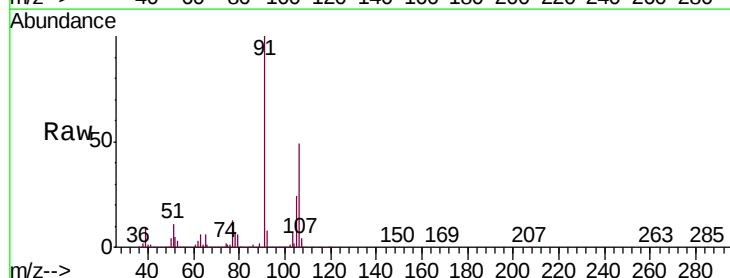
Acq: 18 Dec 2019 04:50

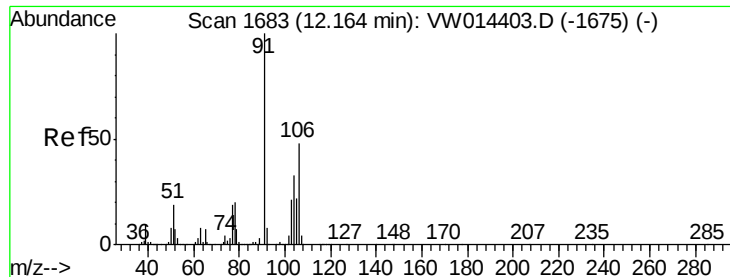
Tgt Ion: 106 Resp: 664249

Ion Ratio Lower Upper

106 100

91 203.8 138.7 257.5





#55

o-xylene

Concen: 25.347 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW014421.D

Acq: 18 Dec 2019 04:50

Instrument :

MSVOA_W

ClientSampleId :

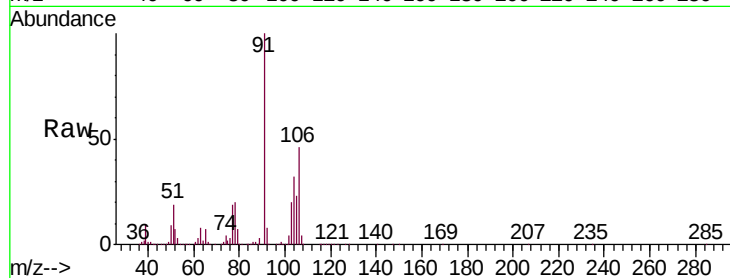
VSTD02524

Tgt Ion:106 Resp: 633791

Ion Ratio Lower Upper

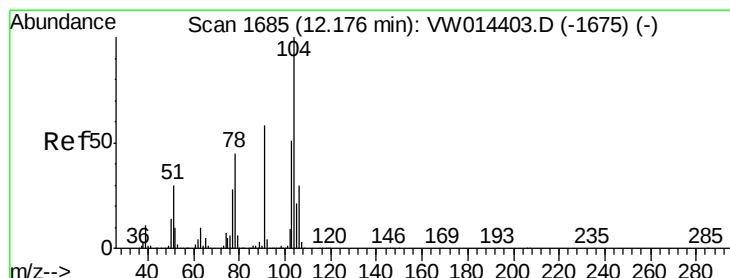
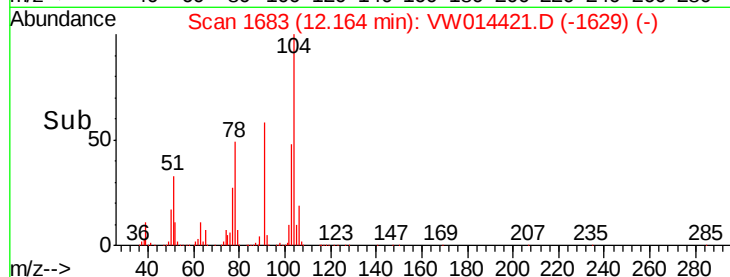
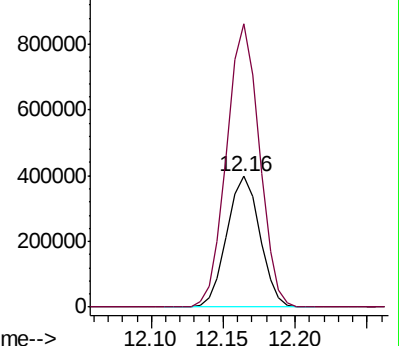
106 100

91 216.7 148.3 275.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 25.945 ug/L

RT: 12.18 min Scan# 1685

Delta R.T. -0.00 min

Lab File: VW014421.D

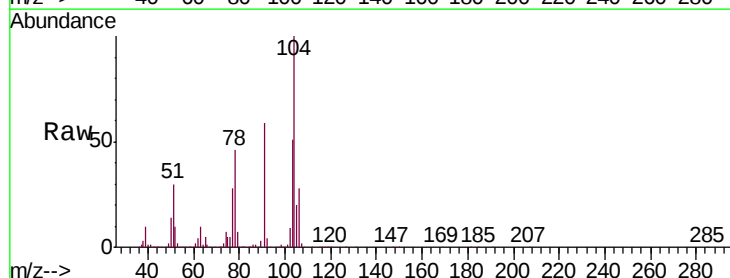
Acq: 18 Dec 2019 04:50

Tgt Ion:104 Resp: 1109826

Ion Ratio Lower Upper

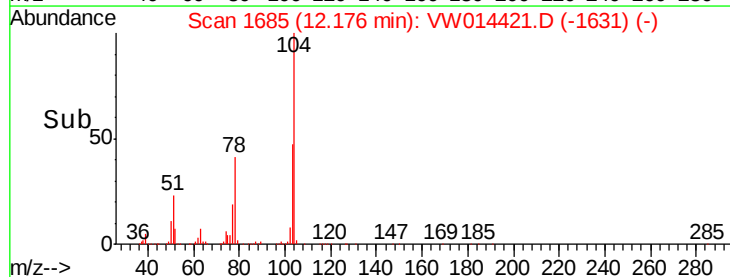
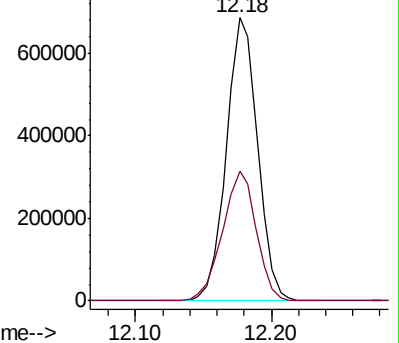
104 100

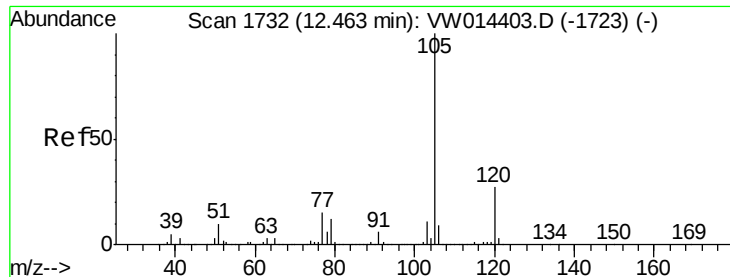
78 45.7 30.6 56.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 25.819 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW014421.D

Acq: 18 Dec 2019 04:50

Instrument :

MSVOA_W

ClientSampleId :

VSTD02524

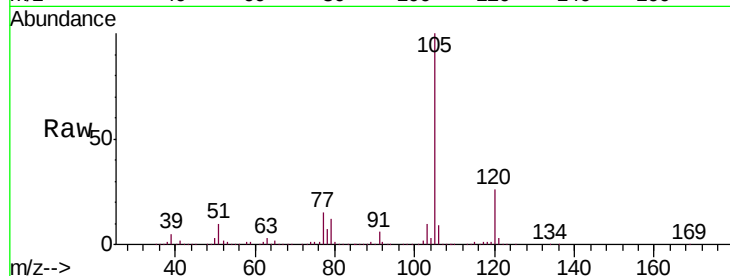
Tgt Ion: 105 Resp: 1676033

Ion Ratio Lower Upper

105 100

120 26.6 21.6 32.4

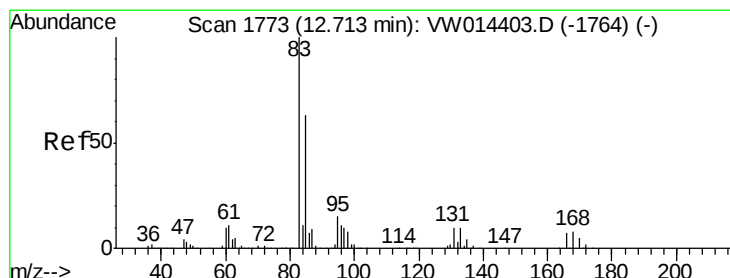
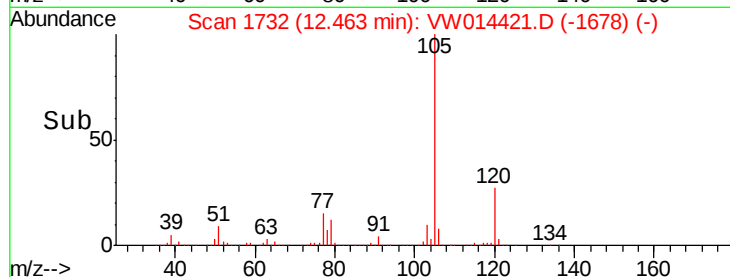
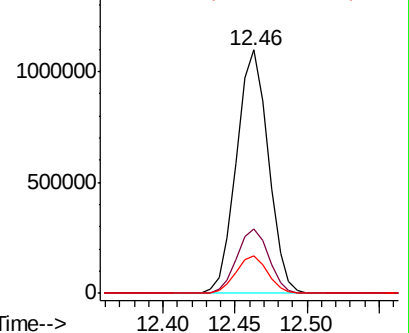
77 15.3 11.6 17.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 22.589 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW014421.D

Acq: 18 Dec 2019 04:50

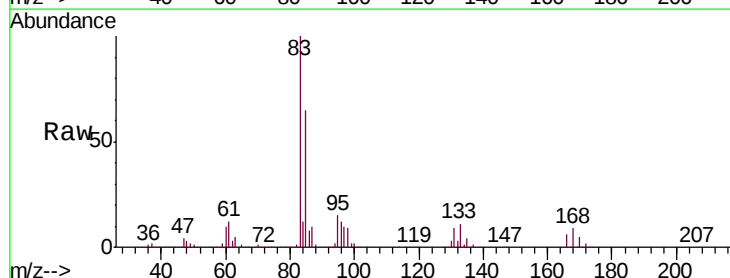
Tgt Ion: 83 Resp: 325152

Ion Ratio Lower Upper

83 100

85 65.4 43.7 81.1

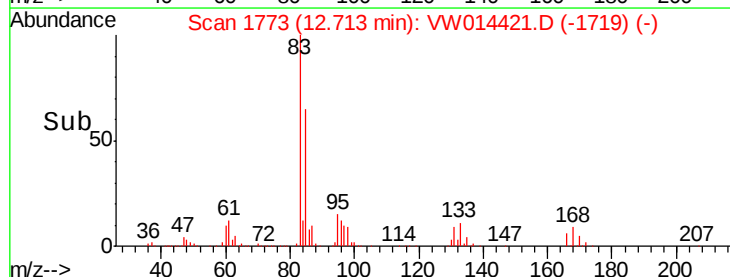
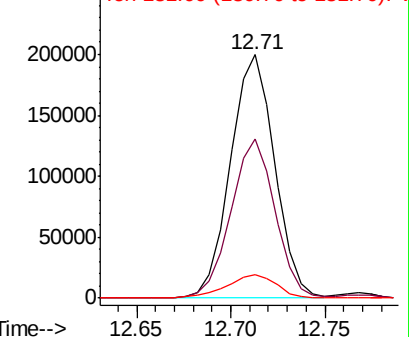
131 9.5 8.2 12.2

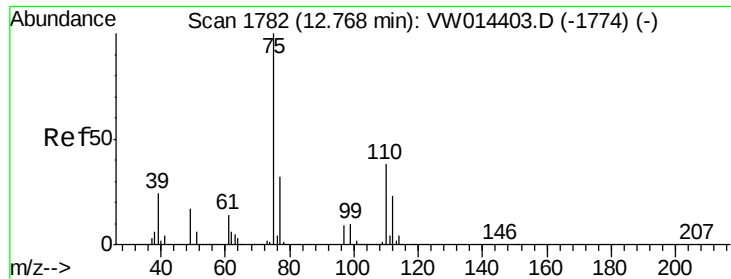


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 22.386 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW014421.D

Acq: 18 Dec 2019 04:50

Instrument :

MSVOA_W

ClientSampleId :

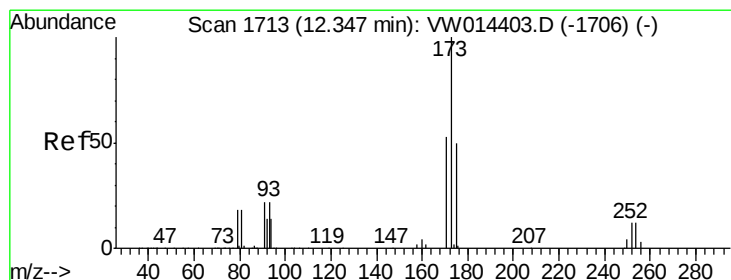
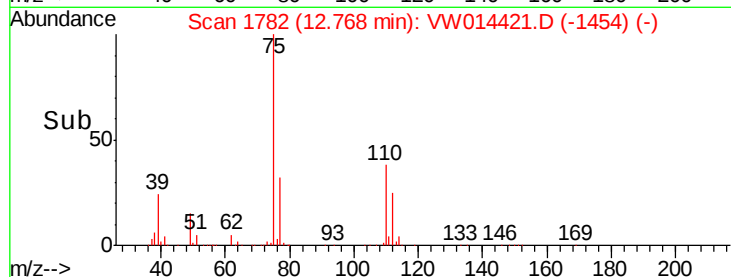
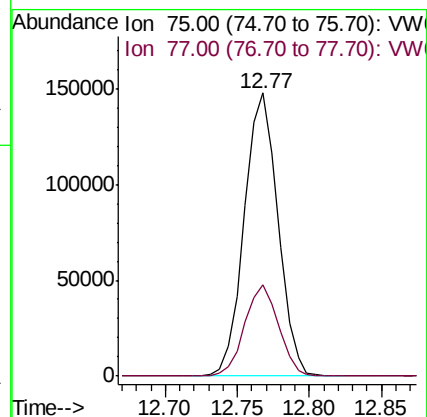
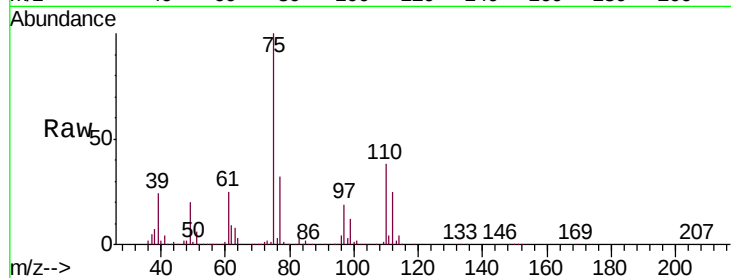
VSTD02524

Tgt Ion: 75 Resp: 239442

Ion Ratio Lower Upper

75 100

77 32.3 25.9 38.9



#62

Bromoform

Concen: 22.572 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW014421.D

Acq: 18 Dec 2019 04:50

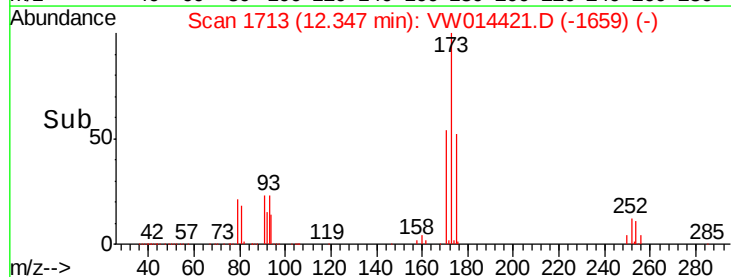
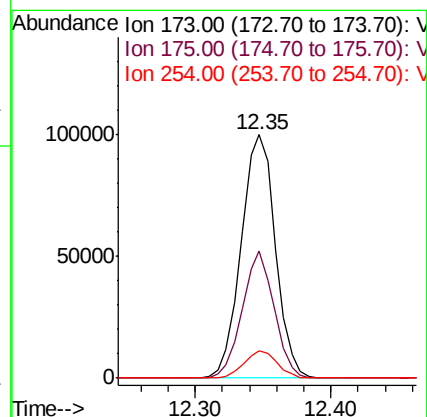
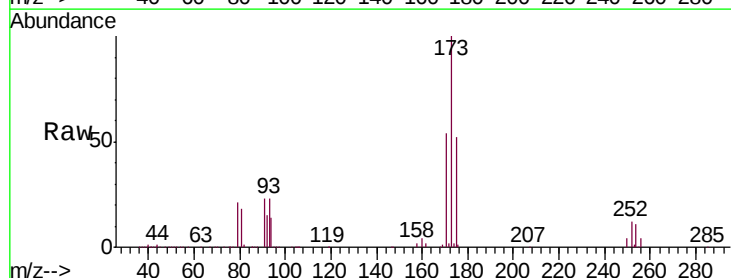
Tgt Ion: 173 Resp: 174576

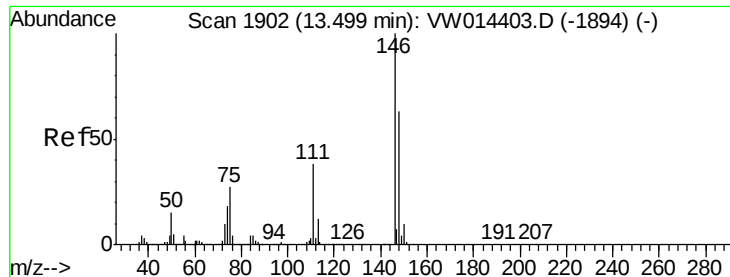
Ion Ratio Lower Upper

173 100

175 48.8 38.8 58.2

254 10.9 9.4 14.0

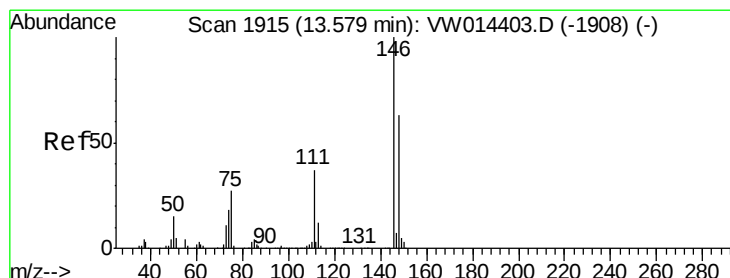
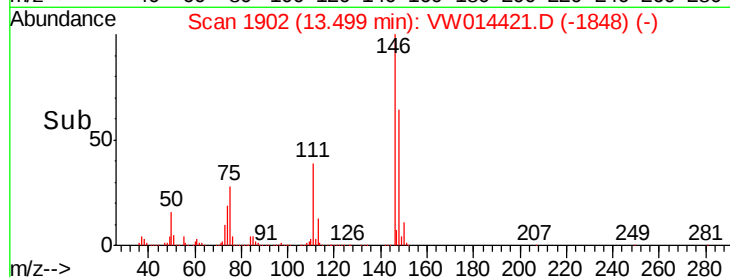
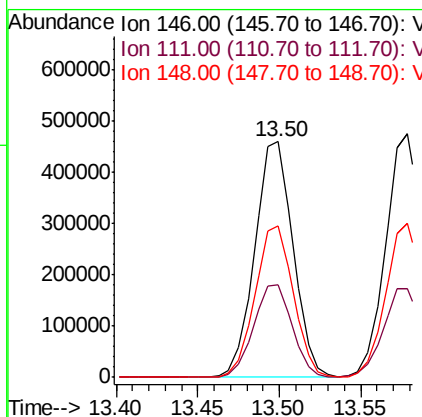
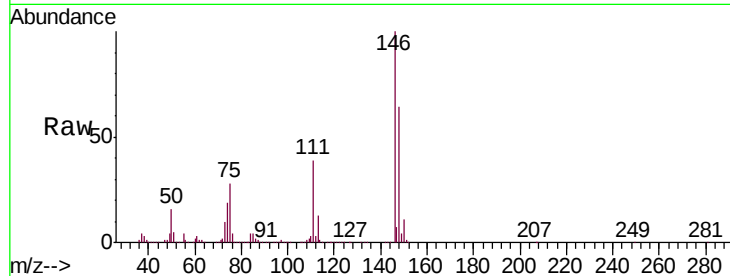




#63
 1,3-Dichlorobenzene
 Concen: 24.419 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW014421.D
 Acq: 18 Dec 2019 04:50

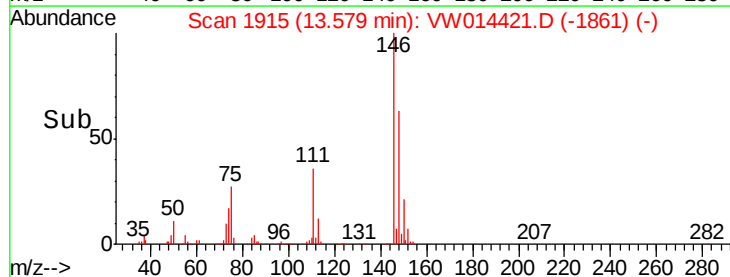
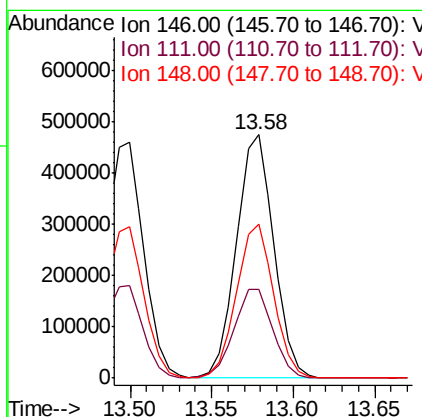
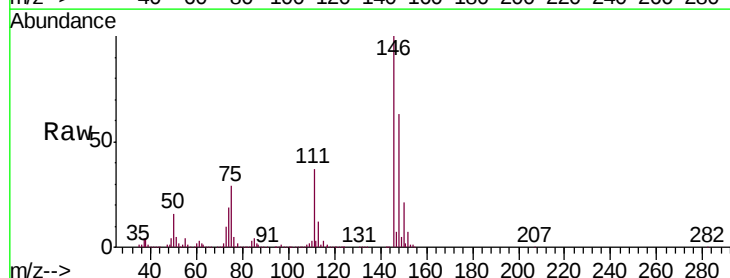
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02524

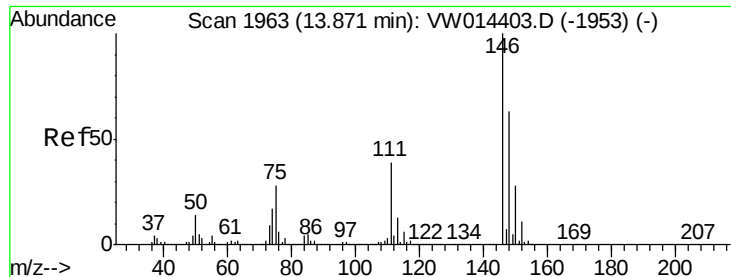
Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.5	26.0	48.2
148	64.4	44.7	82.9



#64
 1,4-Dichlorobenzene
 Concen: 24.251 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW014421.D
 Acq: 18 Dec 2019 04:50

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.5	24.9	46.3
148	63.4	43.9	81.5





#65

1,2-Dichlorobenzene

Concen: 24.296 ug/L

RT: 13.87 min Scan# 1962

Delta R.T. -0.01 min

Lab File: VW014421.D

Acq: 18 Dec 2019 04:50

Instrument :

MSVOA_W

ClientSampleId :

VSTD02524

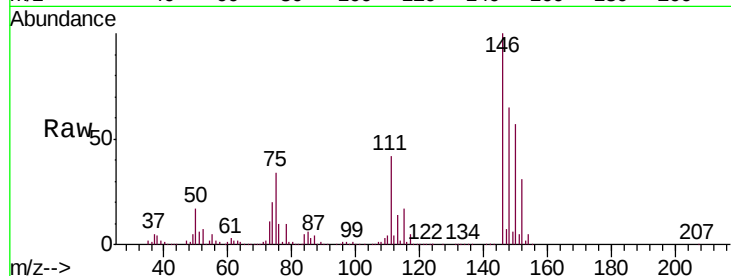
Tgt Ion:146 Resp: 692028

Ion Ratio Lower Upper

146 100

111 42.3 30.5 45.7

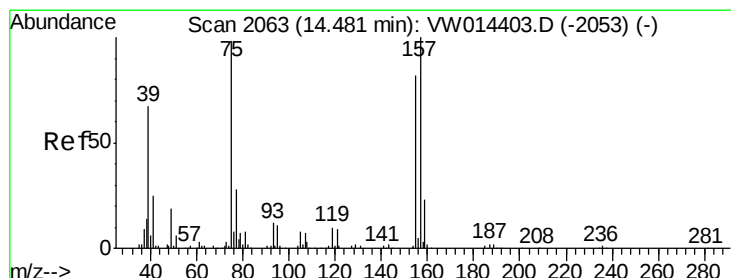
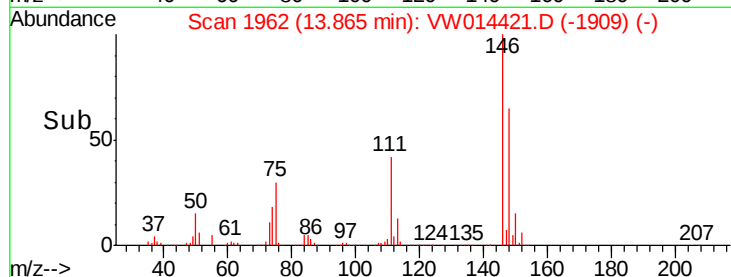
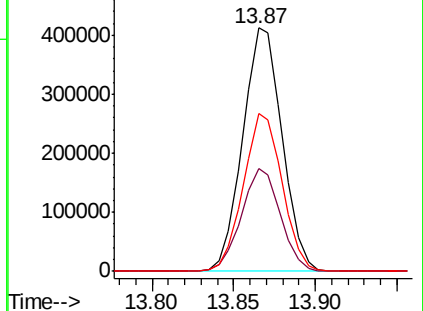
148 65.0 49.4 74.2



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: 22.006 ug/L

RT: 14.48 min Scan# 2063

Delta R.T. -0.00 min

Lab File: VW014421.D

Acq: 18 Dec 2019 04:50

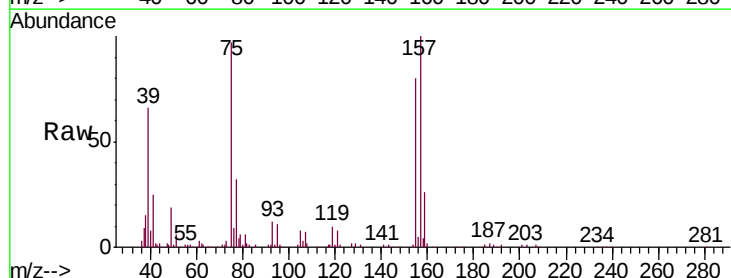
Tgt Ion: 75 Resp: 48352

Ion Ratio Lower Upper

75 100

157 103.6 96.9 145.3

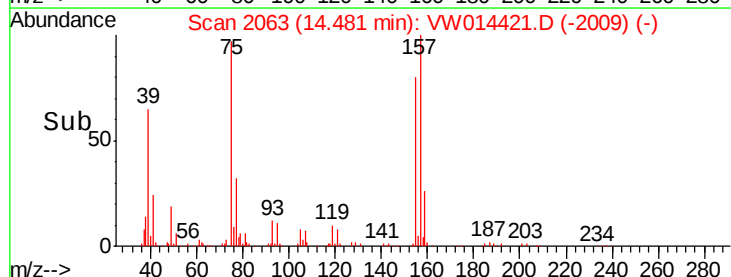
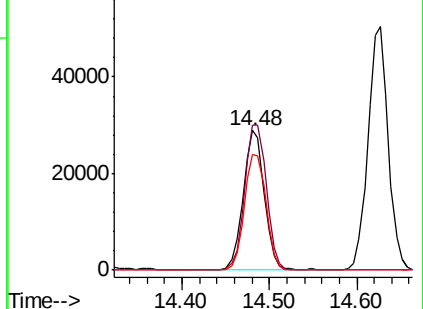
155 83.1 82.9 124.3

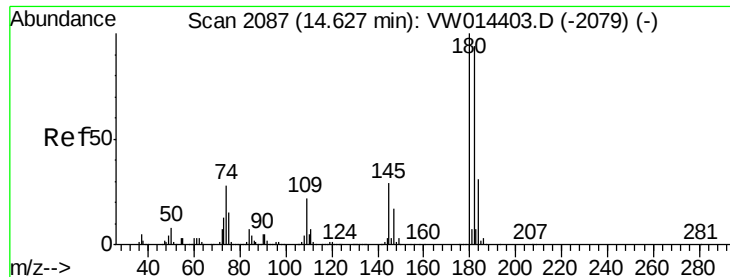


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

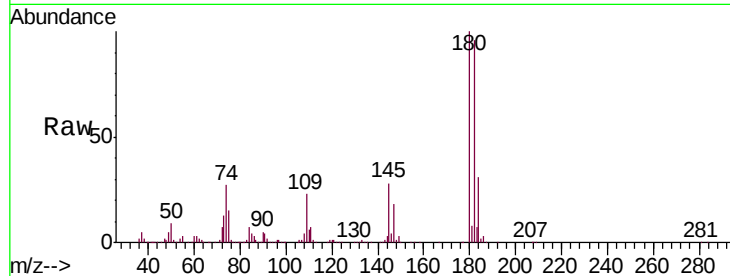




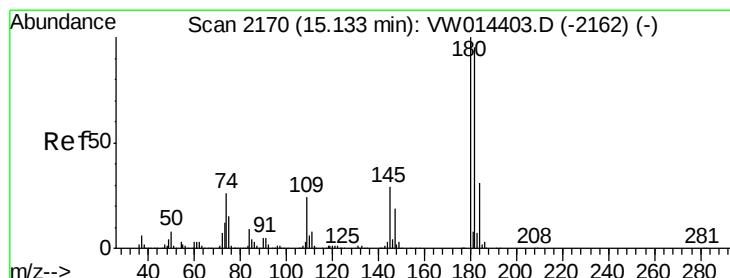
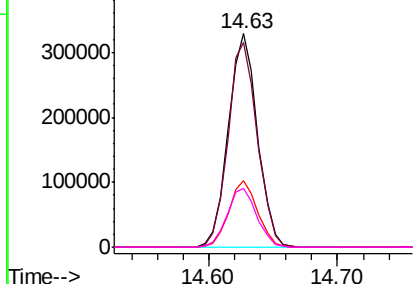
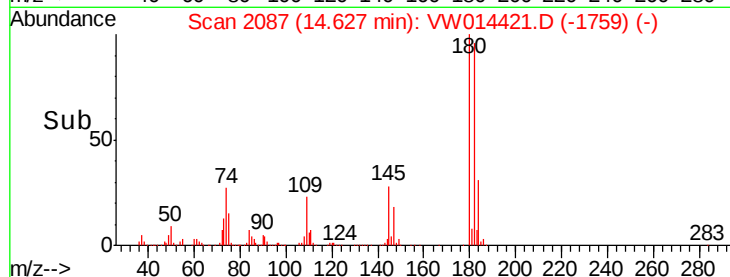
#67
 1,3,5-Trichlorobenzene
 Concen: 23.546 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VW014421.D
 Acq: 18 Dec 2019 04:50

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02524

Tgt Ion:	180	Resp:	518861
Ion	Ratio	Lower	Upper
180	100		
182	96.6	76.2	114.2
184	30.7	24.3	36.5
145	28.2	21.9	32.9

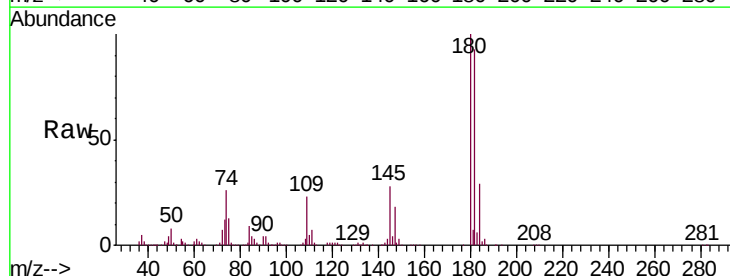


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

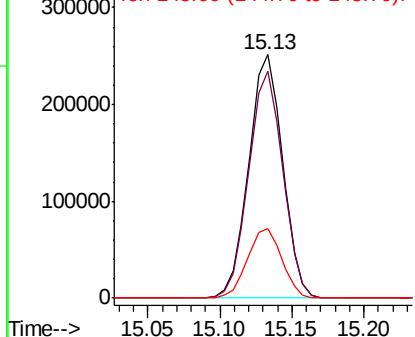
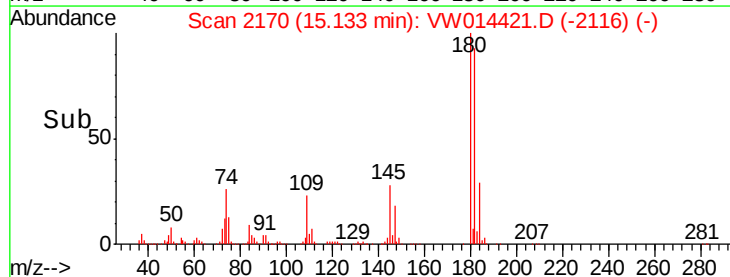


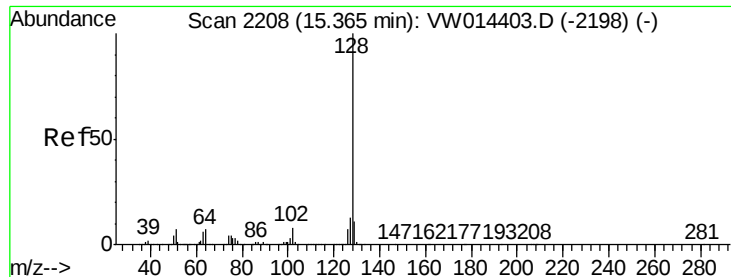
#68
 1,2,4-trichlorobenzene
 Concen: 23.826 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW014421.D
 Acq: 18 Dec 2019 04:50

Tgt Ion:	180	Resp:	409305
Ion	Ratio	Lower	Upper
180	100		
182	93.7	75.8	113.8
145	28.9	22.4	33.6



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





#69

Naphthalene

Concen: 22.937 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW014421.D

Acq: 18 Dec 2019 04:50

Instrument :

MSVOA_W

ClientSampleId :

VSTD02524

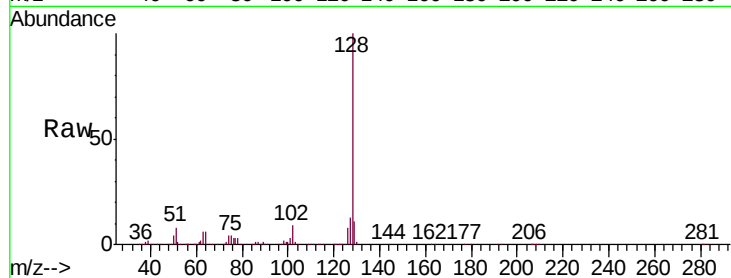
Tgt Ion:128 Resp: 740987

Ion Ratio Lower Upper

128 100

129 11.0 8.8 13.2

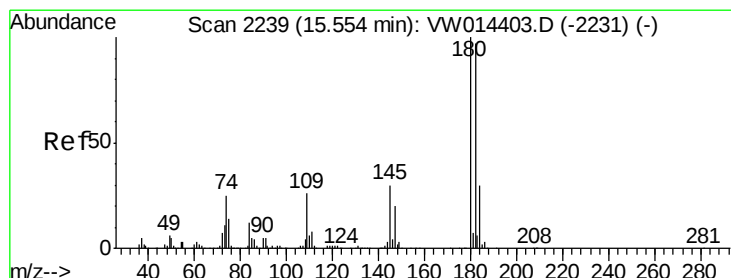
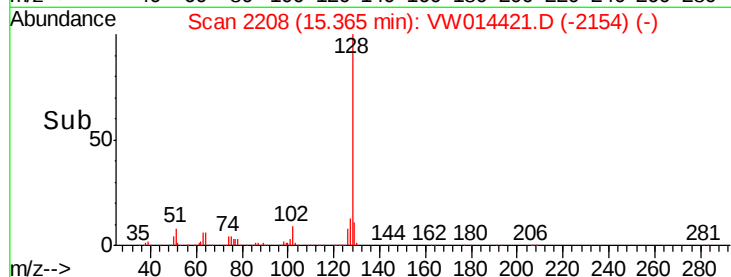
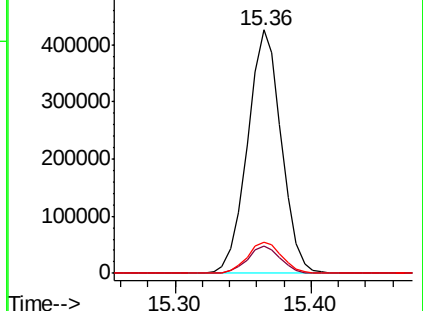
127 13.1 10.4 15.6



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: 23.096 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. -0.00 min

Lab File: VW014421.D

Acq: 18 Dec 2019 04:50

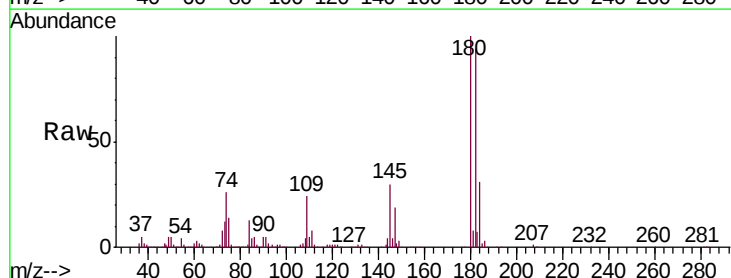
Tgt Ion:180 Resp: 372066

Ion Ratio Lower Upper

180 100

182 96.9 75.8 113.6

145 31.1 24.0 36.0



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

