

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW102519\
 Data File : VW013737.D
 Acq On : 25 Oct 2019 09:20
 Operator : SY/VA
 Sample : VSTDCCC025
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02528

Quant Time: Oct 26 03:29:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM101819S.M
 Quant Title : VOC Analysis
 QLast Update : Sat Oct 26 00:53:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	317060	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	303019	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	184551	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	93728	24.09	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	96.36%
7) Chloroethane-d5	2.89	69	82259	22.65	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	90.60%
10) 1,1-Dichloroethene-d2	4.02	63	207917	24.20	ug/L	-0.01
Spiked Amount	25.000	Range	45 - 110	Recovery	=	96.80%
20) 2-Butanone-d5	7.07	46	70419	50.61	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	101.22%
24) Chloroform-d	7.64	84	217288	24.49	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	97.96%
26) 1,2-Dichloroethane-d4	8.31	65	110762	23.87	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	95.48%
29) Benzene-d6	8.27	84	427717	23.49	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	93.96%
33) 1,2-Dichloropropane-d6	9.27	67	131426	24.17	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	96.68%
37) Toluene-d8	10.32	98	394579	23.50	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	94.00%
38) trans-1,3-Dichloropropene-	10.57	79	58720	23.94	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	95.76%
39) 2-Hexanone-d5	10.92	63	55964	53.84	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	107.68%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	115256	25.88	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	103.52%
61) 1,2-Dichlorobenzene-d4	13.85	152	152801	23.43	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	93.72%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	2.01	85	80867	22.676	ug/L 97
3) Chloromethane	2.21	50	78660	20.376	ug/L 96
5) Vinyl chloride	2.37	62	131417	27.241	ug/L 97
6) Bromomethane	2.78	94	84052	24.112	ug/L 99
8) Chloroethane	2.92	64	77013	23.622	ug/L 99
9) Trichlorofluoromethane	3.26	101	76361	23.484	ug/L 97
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	130325	25.453	ug/L 100
12) 1,1-Dichloroethene	4.04	96	131173	26.032	ug/L 95
13) Acetone	4.12	43	69333	44.899	ug/L 96
14) Carbon disulfide	4.38	76	378112	26.224	ug/L 99
15) Methyl Acetate	4.67	43	62195	24.649	ug/L 100
16) Methylene chloride	4.92	84	136033	22.406	ug/L 93
17) Methyl tert-butyl Ether	5.43	73	175136	25.119	ug/L 99
18) trans-1,2-Dichloroethene	5.42	96	138447	24.855	ug/L 92
19) 1,1-Dichloroethane	6.21	63	237851	25.226	ug/L 98
21) 2-Butanone	7.16	43	90592	46.205	ug/L 99
22) cis-1,2-Dichloroethene	7.16	96	149933	25.077	ug/L 98

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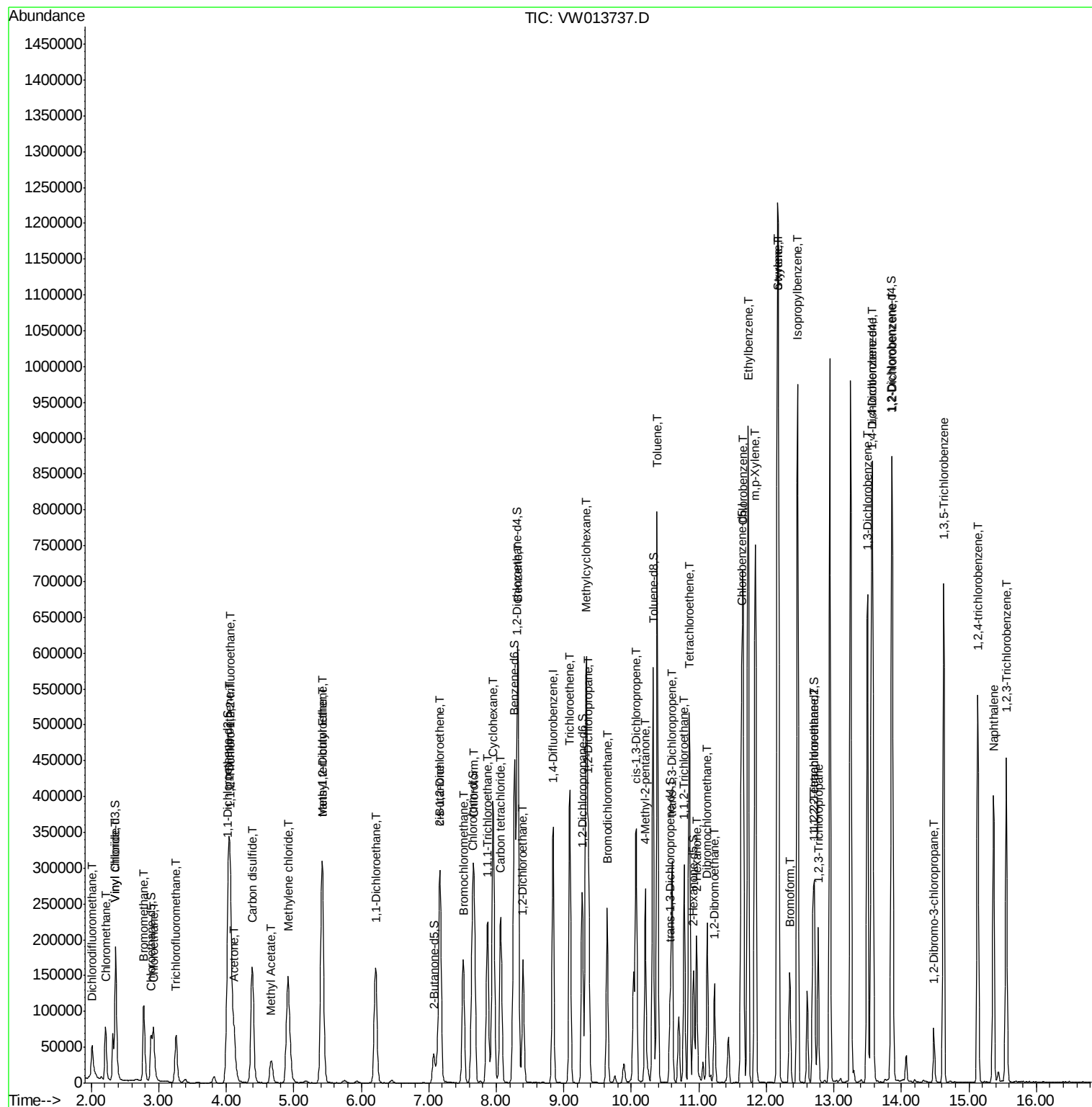
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	67526	24.987	ug/L	96
25) Chloroform	7.67	83	236486	24.969	ug/L	99
27) 1,2-Dichloroethane	8.40	62	150390	24.775	ug/L	96
30) Cyclohexane	7.95	56	227208	25.594	ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	187153	26.481	ug/L	99
32) Carbon tetrachloride	8.07	117	180729	26.261	ug/L	98
34) Benzene	8.32	78	553200	25.444	ug/L	100
35) Trichloroethene	9.09	95	143538	25.731	ug/L	99
36) Methylcyclohexane	9.34	83	251356	25.564	ug/L	99
40) 1,2-Dichloropropane	9.37	63	135035	25.401	ug/L	99
41) Bromodichloromethane	9.64	83	168935	25.935	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	213873	25.482	ug/L	98
43) 4-Methyl-2-pentanone	10.21	43	176684	48.714	ug/L	99
44) Toluene	10.38	91	597568	25.582	ug/L	100
45) trans-1,3-Dichloropropene	10.60	75	172871	25.516	ug/L	98
46) 1,1,2-Trichloroethane	10.79	97	100872	24.603	ug/L	99
47) Tetrachloroethene	10.86	164	130719	25.600	ug/L	98
49) 2-Hexanone	10.96	43	131877	51.252	ug/L	98
50) Dibromochloromethane	11.13	129	123337	25.490	ug/L	94
51) 1,2-Dibromoethane	11.23	107	98068	24.597	ug/L	97
52) Chlorobenzene	11.66	112	377773	25.276	ug/L	98
53) Ethylbenzene	11.73	91	662833	25.682	ug/L	98
54) m,p-Xylene	11.84	106	256931	25.761	ug/L	100
55) o-xylene	12.16	106	228880	24.182	ug/L	99
56) Styrene	12.18	104	408435	25.226	ug/L	96
57) Isopropylbenzene	12.46	105	644969	25.405	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	12.71	83	122223	25.435	ug/L	97
59) 1,2,3-Trichloropropane	12.77	75	89273	24.912	ug/L	99
62) Bromoform	12.35	173	75579	23.896	ug/L	98
63) 1,3-Dichlorobenzene	13.50	146	306940	24.511	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	308934	24.550	ug/L	98
65) 1,2-Dichlorobenzene	13.87	146	280313	24.706	ug/L	96
66) 1,2-Dibromo-3-chloropropan	14.48	75	18868	24.194	ug/L	89
67) 1,3,5-Trichlorobenzene	14.63	180	229889	24.694	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	193555	24.490	ug/L	99
69) Naphthalene	15.36	128	352117	24.587	ug/L	100
70) 1,2,3-Trichlorobenzene	15.55	180	172725	24.404	ug/L	99

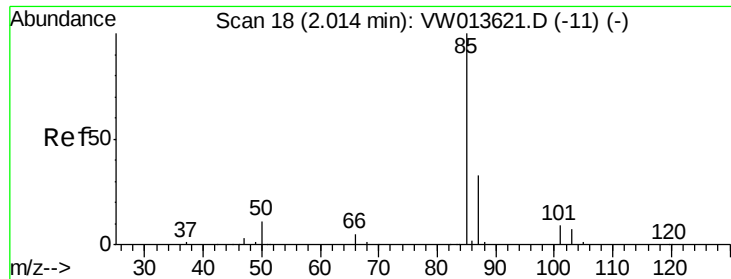
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 22.676 ug/L

RT: 2.01 min Scan# 18

Delta R.T. -0.00 min

Lab File: VW013737.D

Acq: 25 Oct 2019 09:20

Instrument :

MSVOA_W

ClientSampleId :

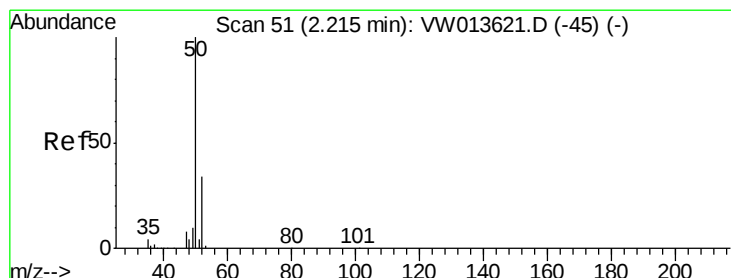
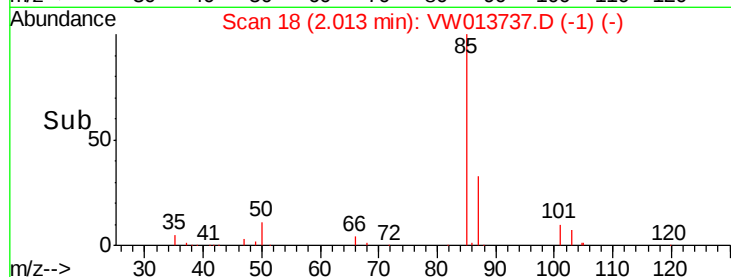
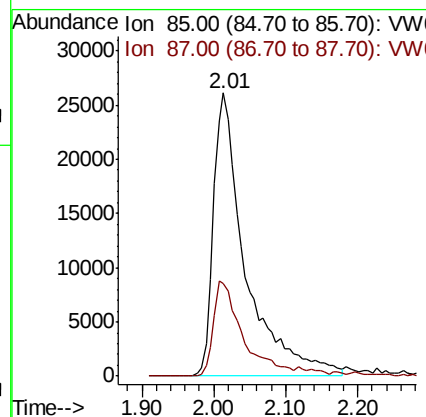
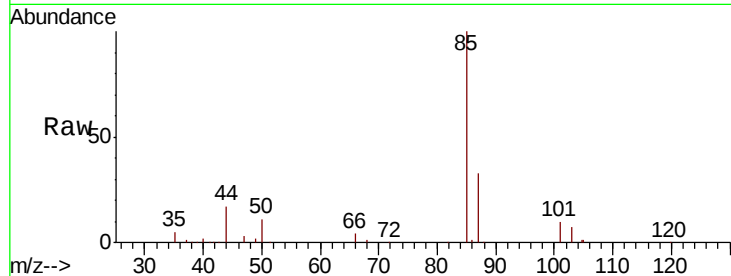
VSTD02528

Tot Ion: 85 Resp: 80867

Ion Ratio Lower Upper

85 100

87 30.6 20.2 37.4



#3

Chloromethane

Concen: 20.376 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW013737.D

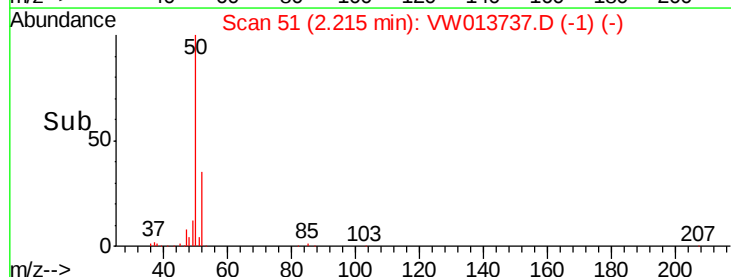
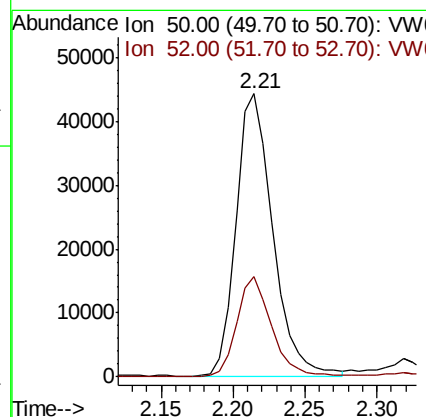
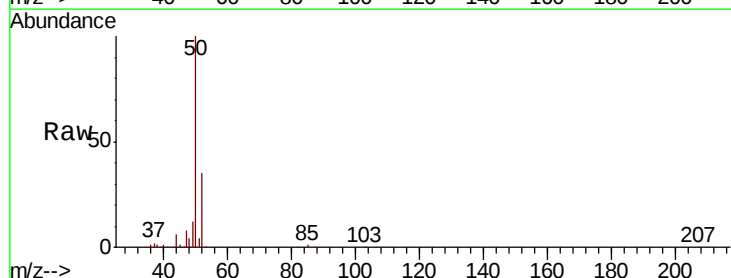
Acq: 25 Oct 2019 09:20

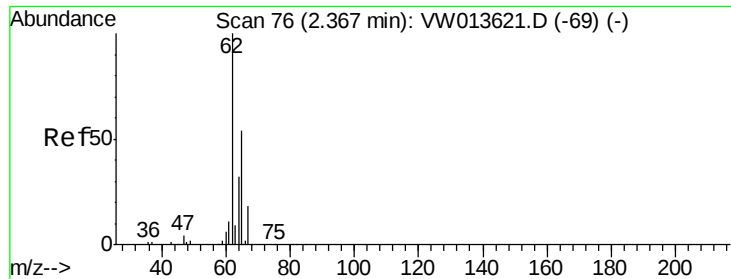
Tgt Ion: 50 Resp: 78660

Ion Ratio Lower Upper

50 100

52 35.5 23.3 43.3





#5

Vinyl chloride

Concen: 27.241 ug/L

RT: 2.37 min Scan# 76

Delta R.T. -0.00 min

Lab File: VW013737.D

Acq: 25 Oct 2019 09:20

Instrument :

MSVOA_W

ClientSampleId :

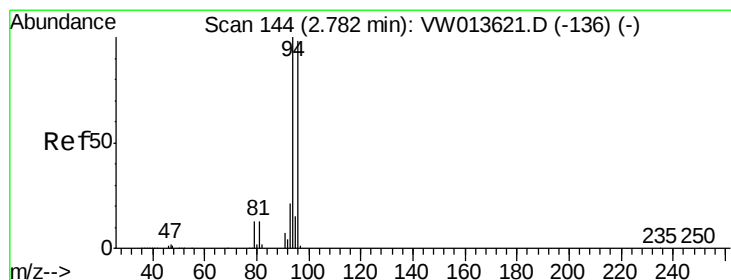
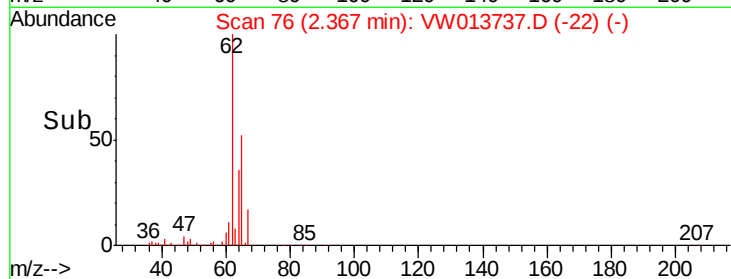
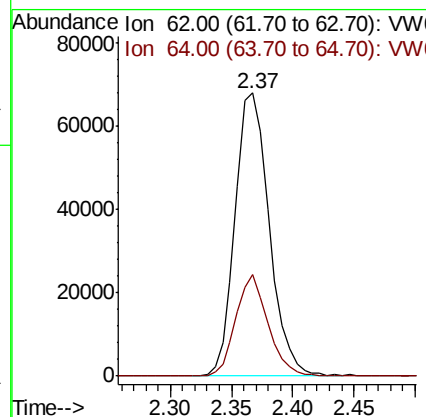
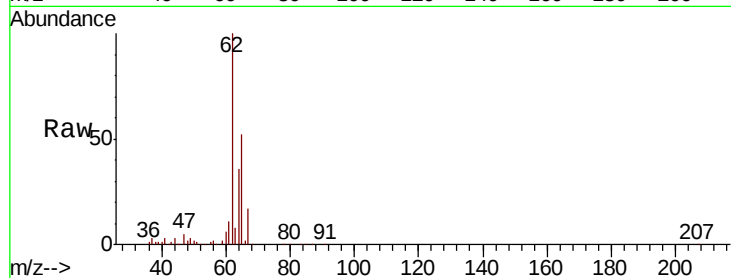
VSTD02528

Tot Ion: 62 Resp: 131417

Ion Ratio Lower Upper

62 100

64 36.1 23.9 44.5



#6

Bromomethane

Concen: 24.112 ug/L

RT: 2.78 min Scan# 143

Delta R.T. -0.01 min

Lab File: VW013737.D

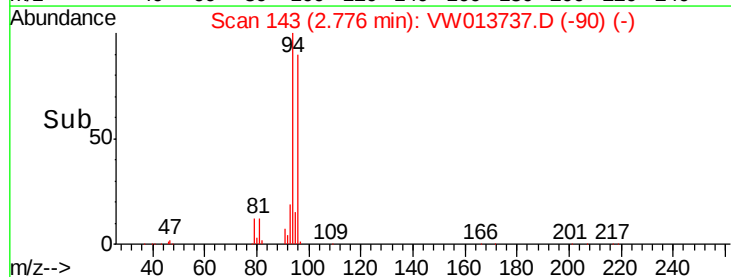
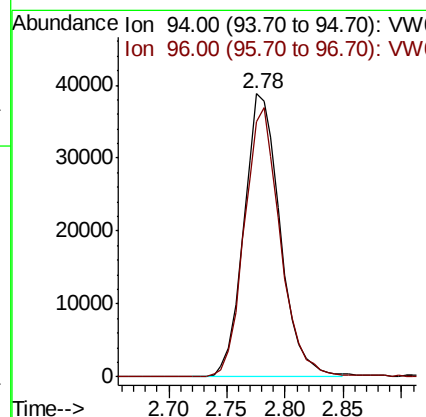
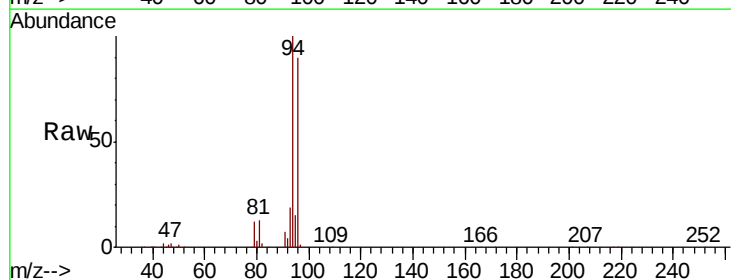
Acq: 25 Oct 2019 09:20

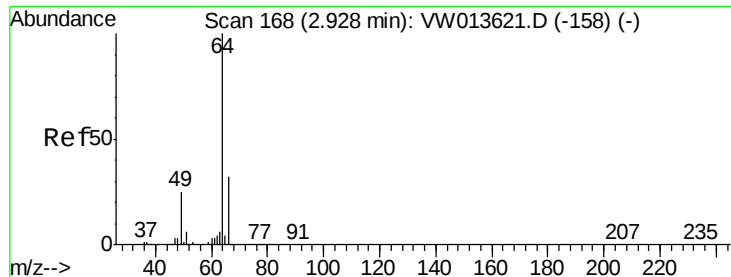
Tgt Ion: 94 Resp: 84052

Ion Ratio Lower Upper

94 100

96 94.5 9.3 176.9





#8

Chloroethane

Concen: 23.622 ug/L

RT: 2.92 min Scan# 167

Delta R.T. -0.01 min

Lab File: VW013737.D

Acq: 25 Oct 2019 09:20

Instrument :

MSVOA_W

ClientSampleId :

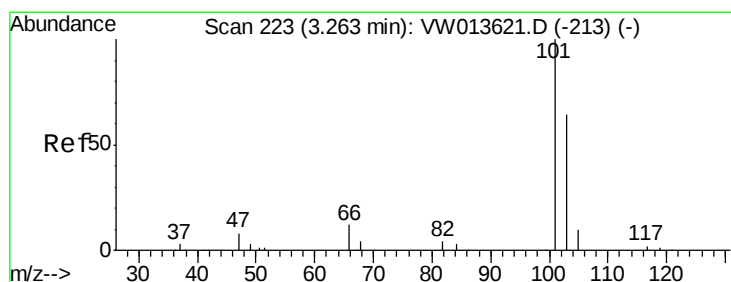
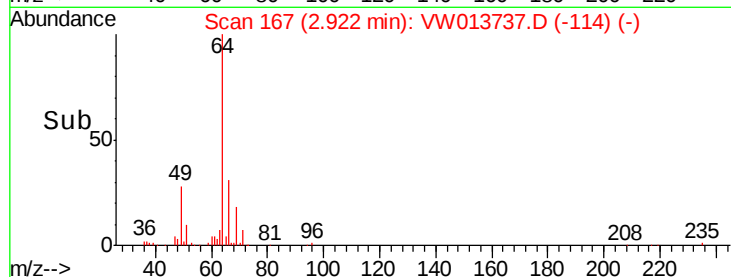
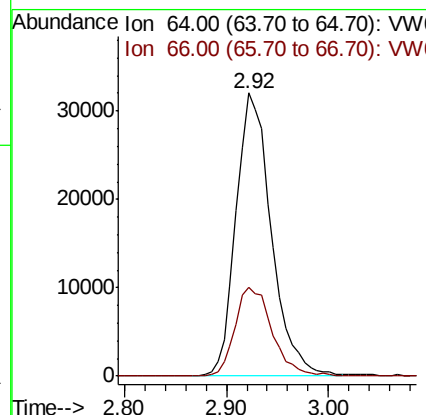
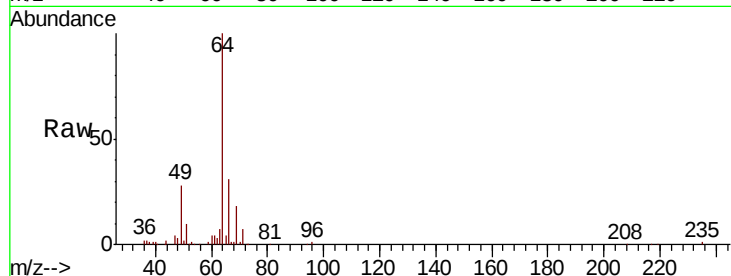
VSTD02528

Tot Ion: 64 Resp: 77013

Ion Ratio Lower Upper

64 100

66 31.3 22.2 41.2



#9

Trichlorofluoromethane

Concen: 23.484 ug/L

RT: 3.26 min Scan# 222

Delta R.T. -0.01 min

Lab File: VW013737.D

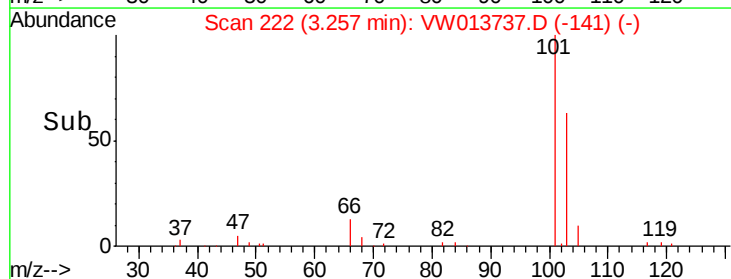
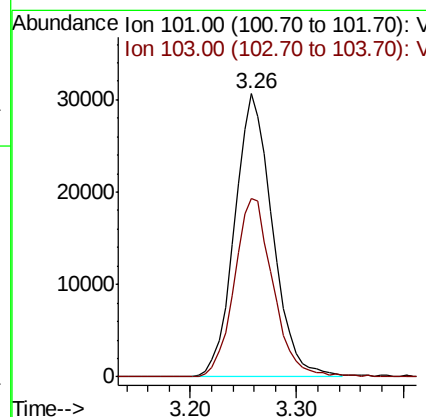
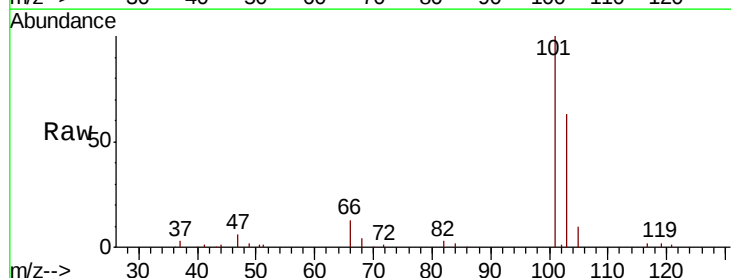
Acq: 25 Oct 2019 09:20

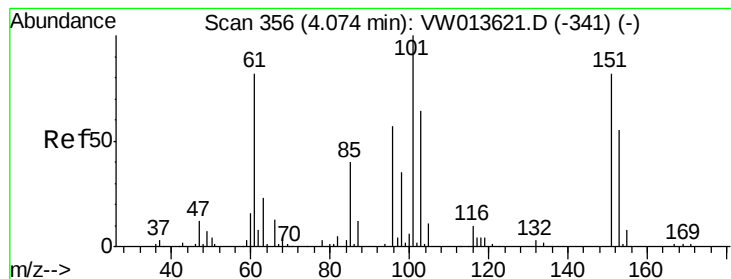
Tgt Ion: 101 Resp: 76361

Ion Ratio Lower Upper

101 100

103 63.8 46.5 86.5





#11

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

Concen: 25.453 ug/L

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW013737.D

Acq: 25 Oct 2019 09:20

Instrument :

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ClientSampleId :

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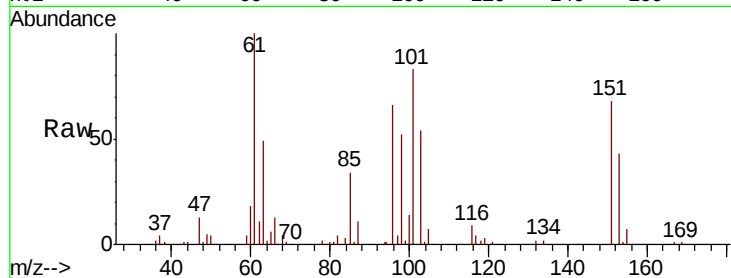
Tot Ion:101 Resp: 130325

Ion Ratio Lower Upper

101 100

85 39.4 32.0 48.0

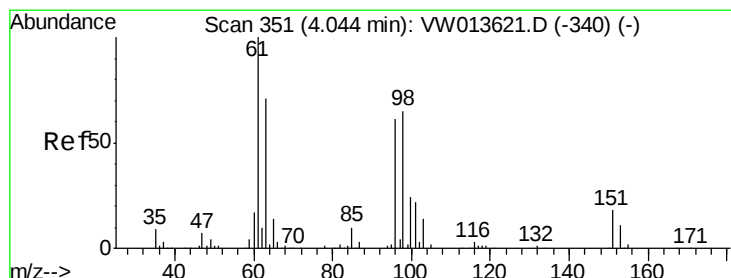
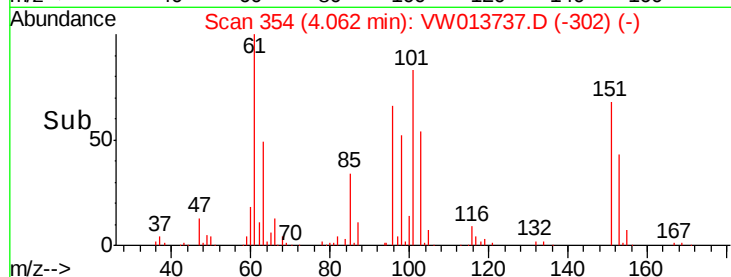
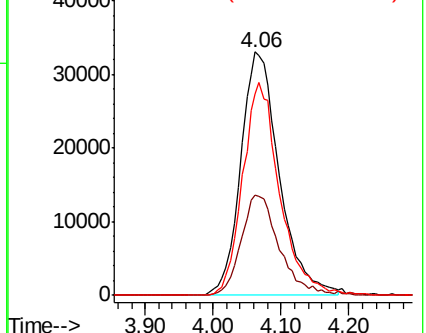
151 83.8 66.9 100.3



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: 26.032 ug/L

RT: 4.04 min Scan# 351

Delta R.T. -0.00 min

Lab File: VW013737.D

Acq: 25 Oct 2019 09:20

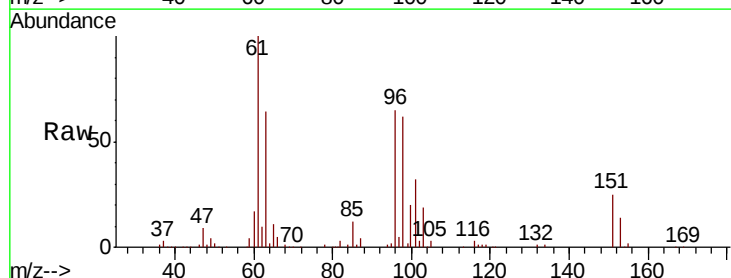
Tgt Ion: 96 Resp: 131173

Ion Ratio Lower Upper

96 100

61 153.7 112.7 209.3

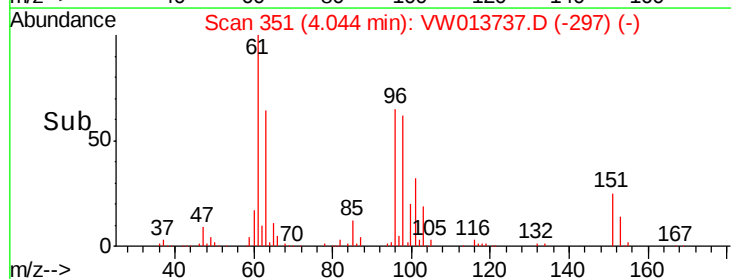
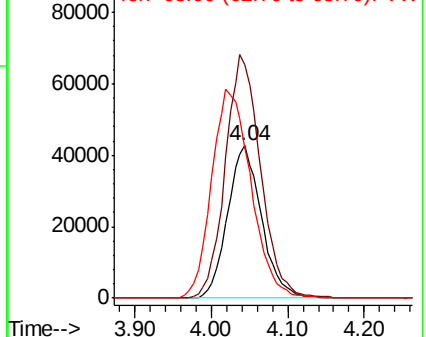
63 99.0 72.8 135.2

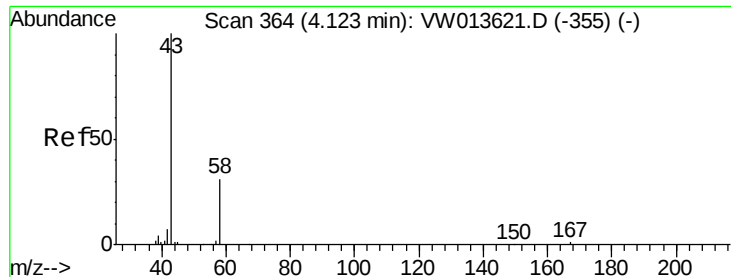


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 44.899 ug/L

RT: 4.12 min Scan# 364

Delta R.T. -0.00 min

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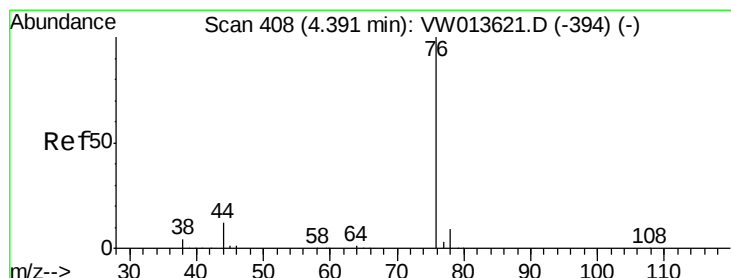
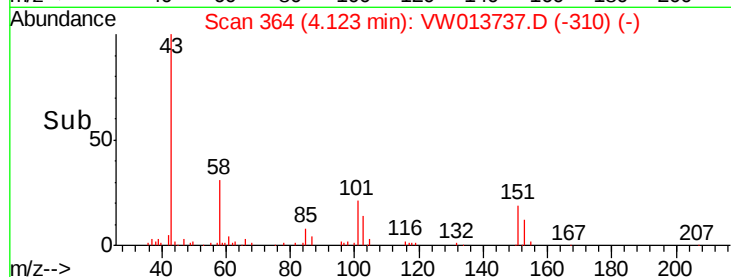
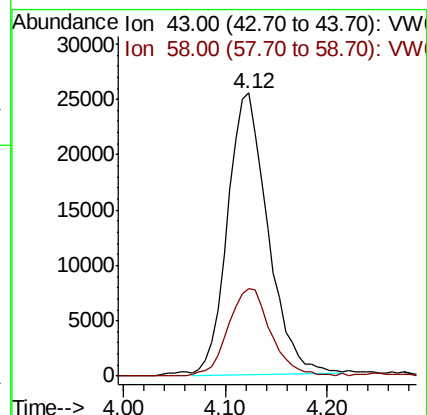
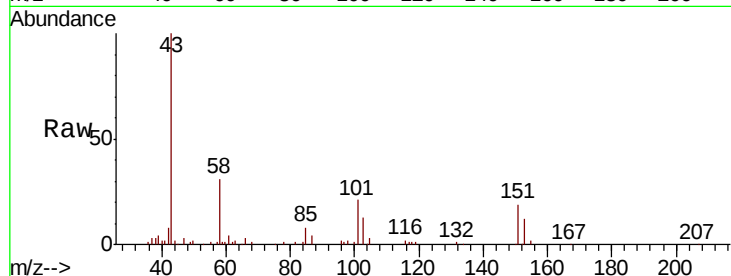
VSTD02528

Tot Ion: 43 Resp: 69333

Ion Ratio Lower Upper

43 100

58 33.0 0.0 70.4



#14

Carbon disulfide

Concen: 26.224 ug/L

RT: 4.38 min Scan# 407

Delta R.T. -0.01 min

Lab File: VW013737.D

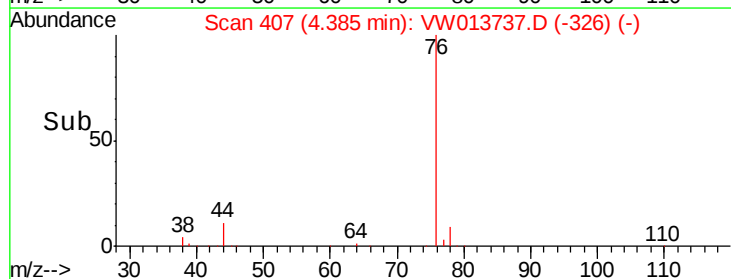
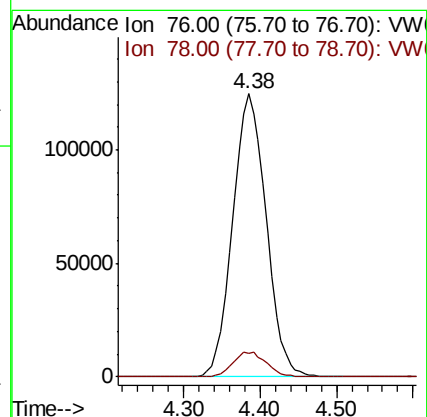
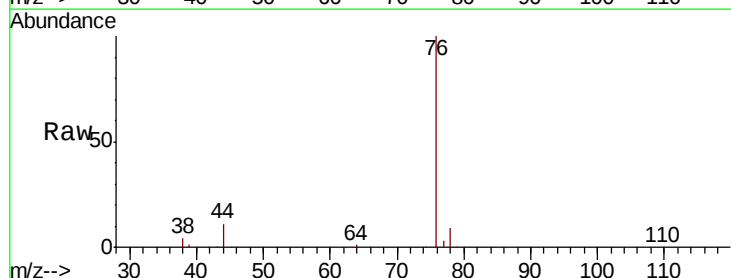
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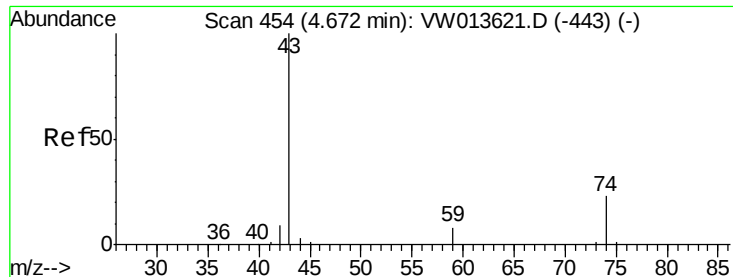
Tgt Ion: 76 Resp: 378112

Ion Ratio Lower Upper

76 100

78 8.5 7.1 10.7

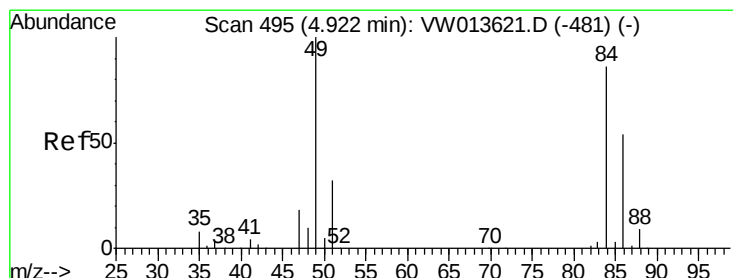
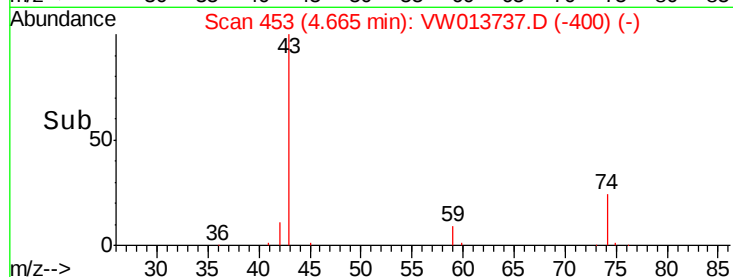
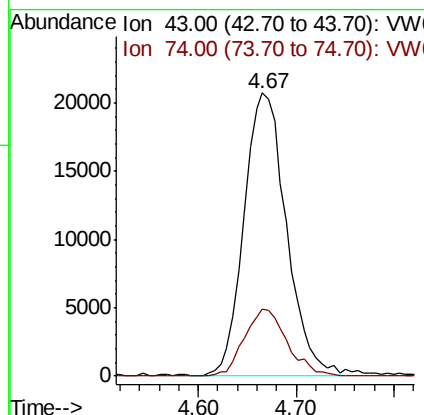
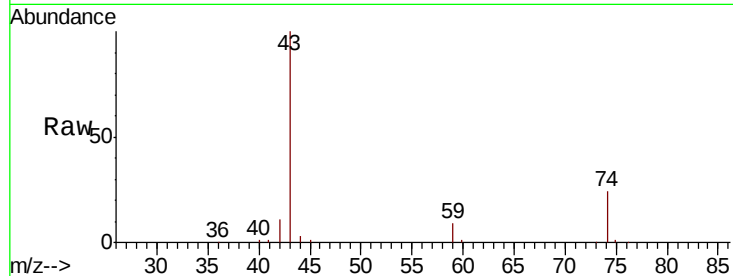




#15
Methvl Acetate
Concen: 24.649 ug/L
RT: 4.67 min Scan# 453
Delta R.T. -0.01 min
Lab File: VW013737.D
Acq: 25 Oct 2019 09:20

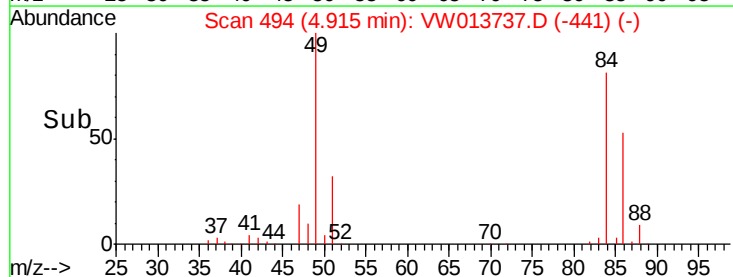
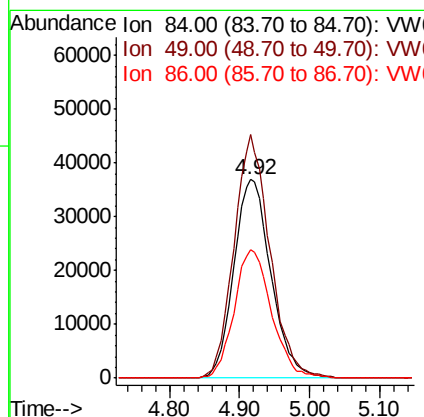
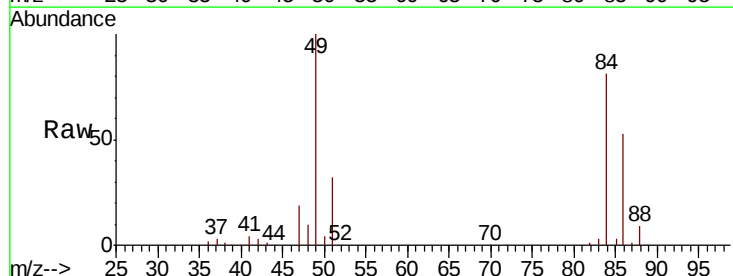
Instrument :
MSVOA_W
ClientSampleId :
VSTD02528

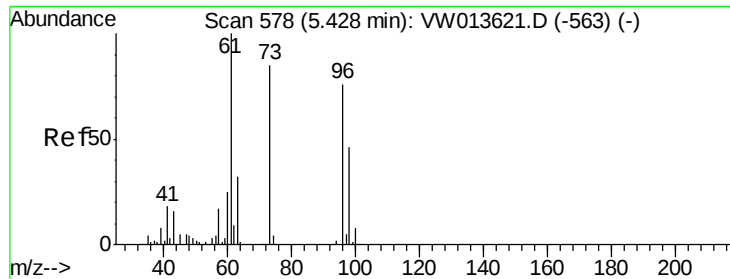
Tot Ion: 43 Resp: 62195
Ion Ratio Lower Upper
43 100
74 23.9 19.2 28.8



#16
Methylene chloride
Concen: 22.406 ug/L
RT: 4.92 min Scan# 494
Delta R.T. -0.01 min
Lab File: VW013737.D
Acq: 25 Oct 2019 09:20

Tgt Ion: 84 Resp: 136033
Ion Ratio Lower Upper
84 100
49 122.8 80.2 148.9
86 65.0 42.7 79.3

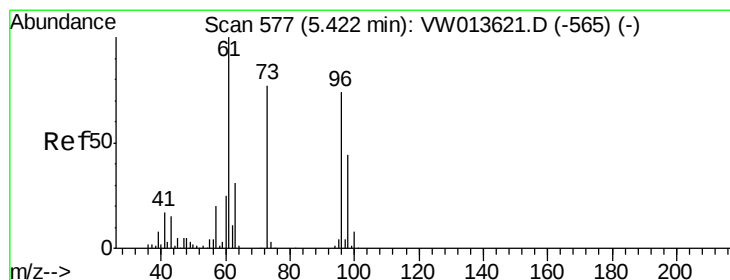
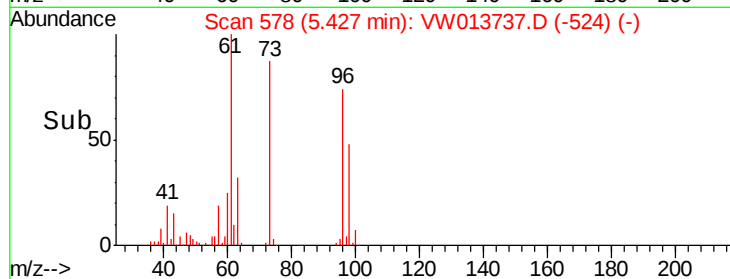
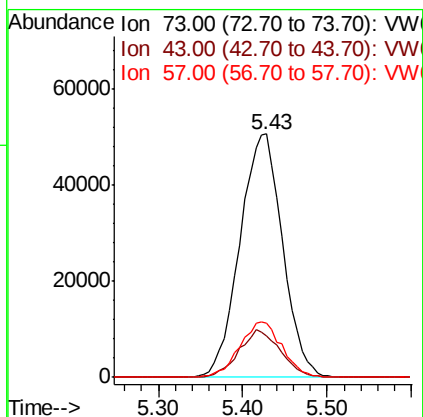
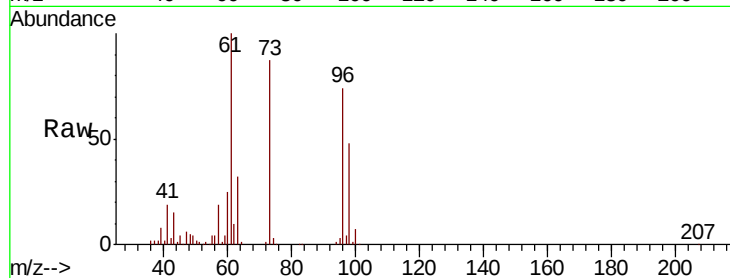




#17
Methvl tert-butvl Ether
Concen: 25.119 ug/L
RT: 5.43 min Scan# 578
Delta R.T. -0.00 min
Lab File: VW013737.D
Acq: 25 Oct 2019 09:20

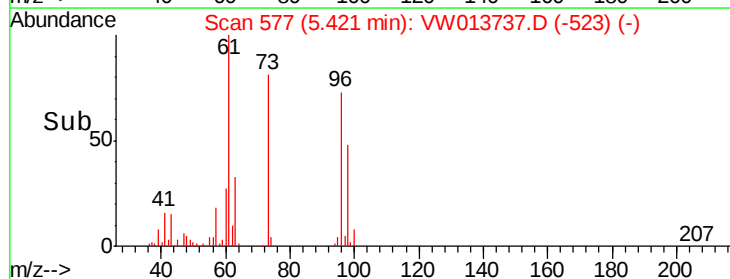
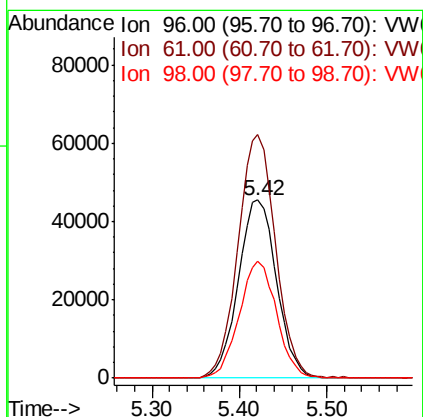
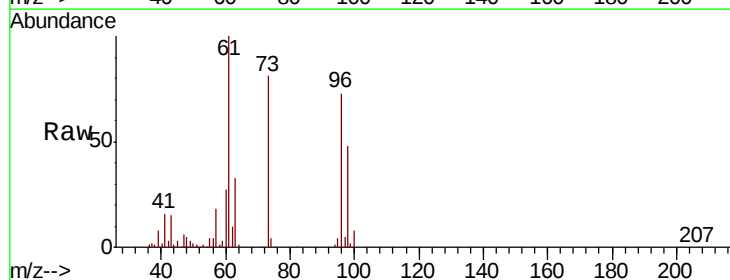
Instrument :
MSVOA_W
ClientSampleId :
VSTD02528

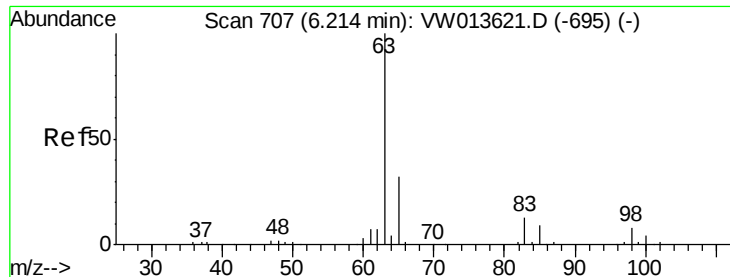
Tot Ion: 73 Resp: 175136
Ion Ratio Lower Upper
73 100
43 18.9 15.4 23.2
57 22.6 17.7 26.5



#18
trans-1,2-Dichloroethene
Concen: 24.855 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW013737.D
Acq: 25 Oct 2019 09:20

Tgt Ion: 96 Resp: 138447
Ion Ratio Lower Upper
96 100
61 136.9 88.4 164.2
98 65.4 43.0 79.8



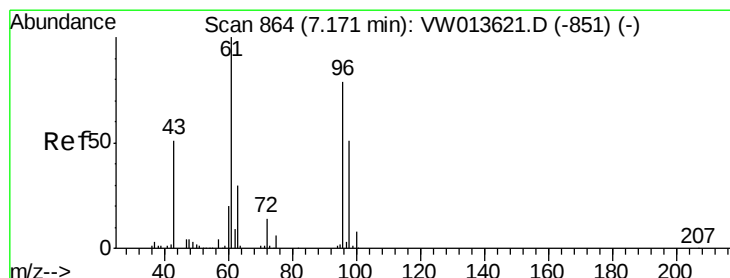
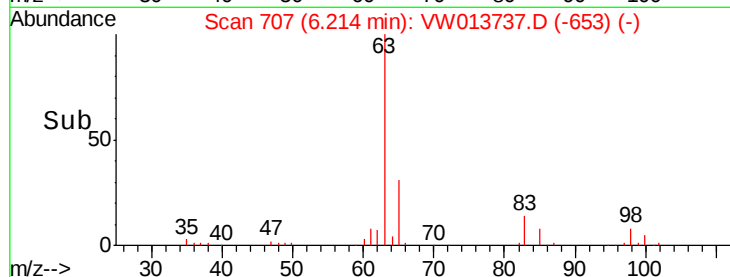
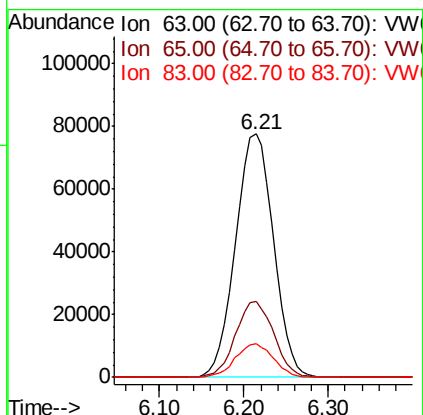
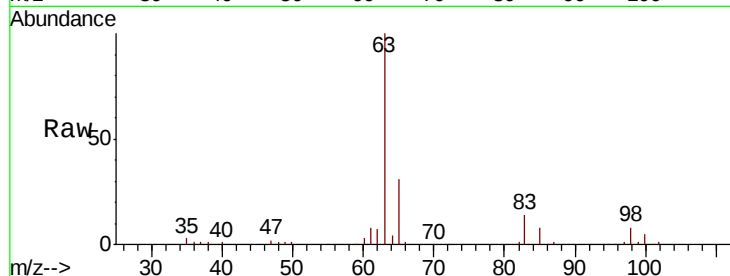


#19
 1,1-Dichloroethane
 Concen: 25.226 ug/L
 RT: 6.21 min Scan# 707
 Delta R.T. -0.00 min
 Lab File: VW013737.D
 Acq: 25 Oct 2019 09:20

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02528

Tot Ion: 63 Resp: 237851

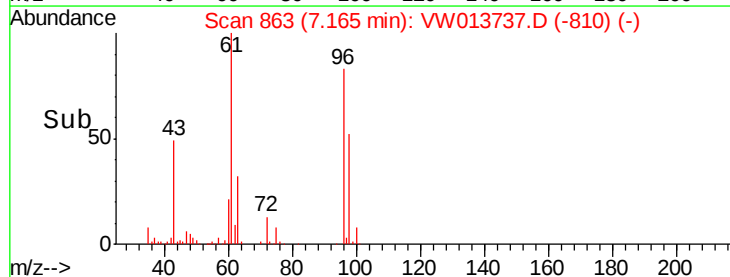
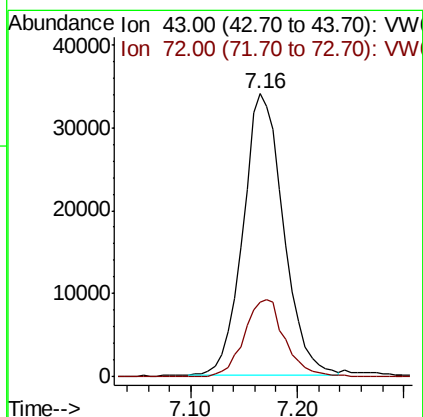
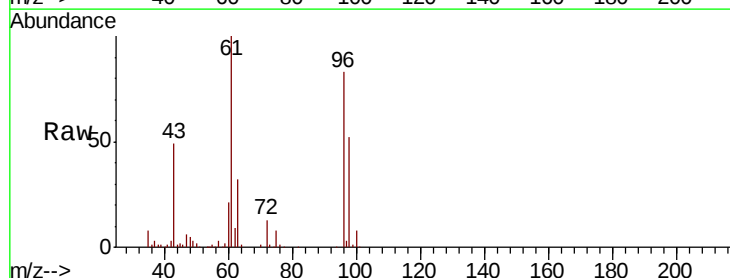
Ion	Ratio	Lower	Upper
63	100		
65	31.3	20.9	38.7
83	13.7	9.2	17.2

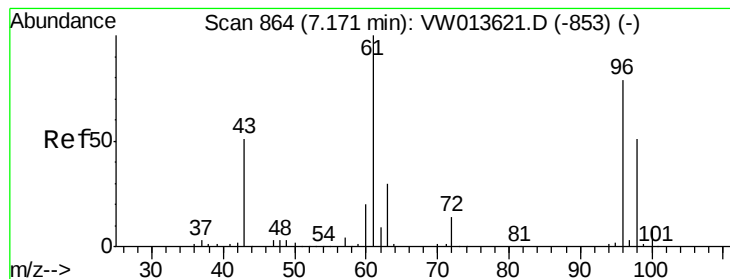


#21
 2-Butanone
 Concen: 46.205 ug/L
 RT: 7.16 min Scan# 863
 Delta R.T. -0.01 min
 Lab File: VW013737.D
 Acq: 25 Oct 2019 09:20

Tgt Ion: 43 Resp: 90592

Ion	Ratio	Lower	Upper
43	100		
72	27.8	13.7	41.1



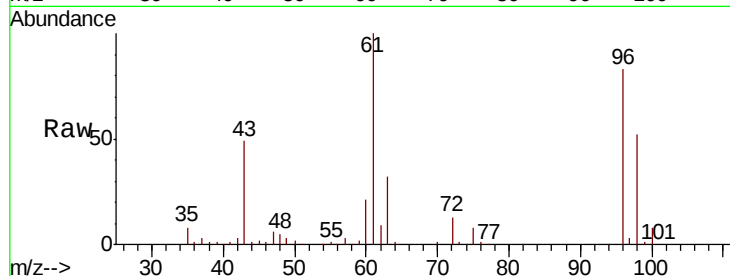


#22

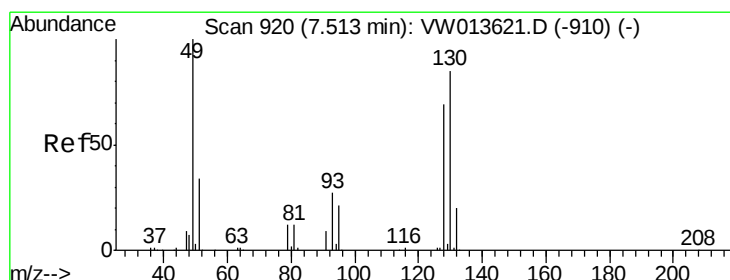
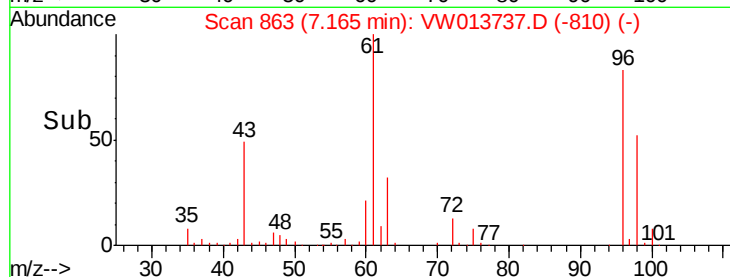
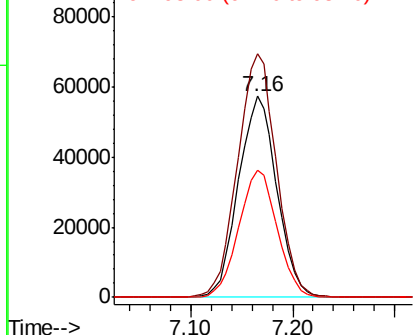
cis-1,2-Dichloroethene
Concen: 25.077 ug/L
RT: 7.16 min Scan# 863
Delta R.T. -0.01 min
Lab File: VW013737.D
Acq: 25 Oct 2019 09:20

Instrument :
MSVOA_W
ClientSampleId :
VSTD02528

Tot Ion: 96 Resp: 149933
Ion Ratio Lower Upper
96 100
61 121.0 86.2 160.0
98 62.9 43.0 79.8



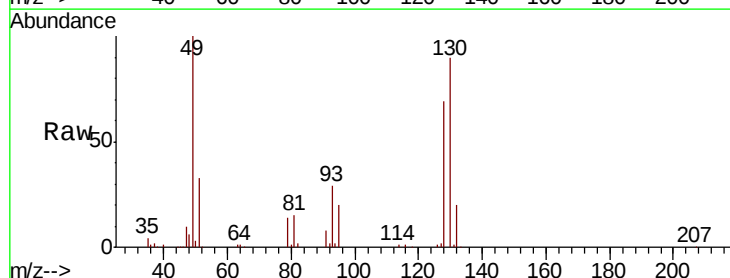
Abundance Ion 96.00 (95.70 to 96.70): VW
Ion 61.00 (60.70 to 61.70): VW
Ion 98.00 (97.70 to 98.70): VW



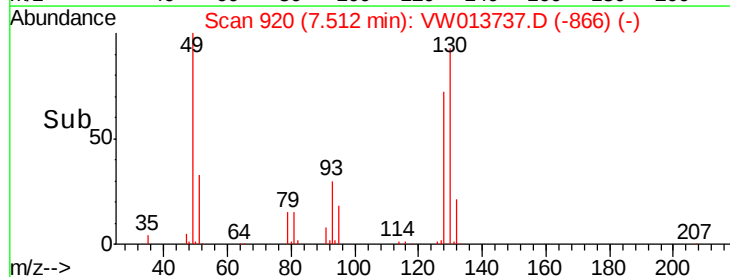
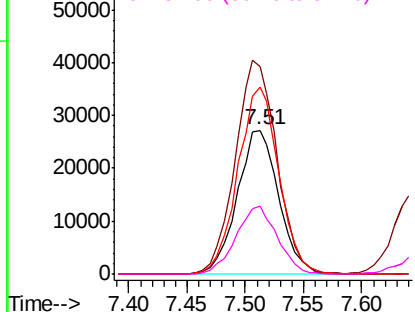
#23

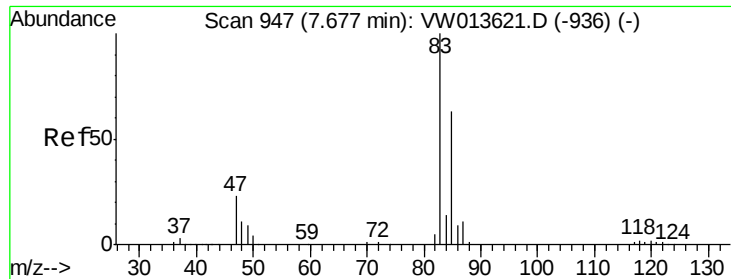
Bromochloromethane
Concen: 24.987 ug/L
RT: 7.51 min Scan# 920
Delta R.T. -0.00 min
Lab File: VW013737.D
Acq: 25 Oct 2019 09:20

Tgt Ion: 128 Resp: 67526
Ion Ratio Lower Upper
128 100
49 144.7 106.3 197.3
130 130.1 93.2 173.2
51 47.4 37.4 56.0



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

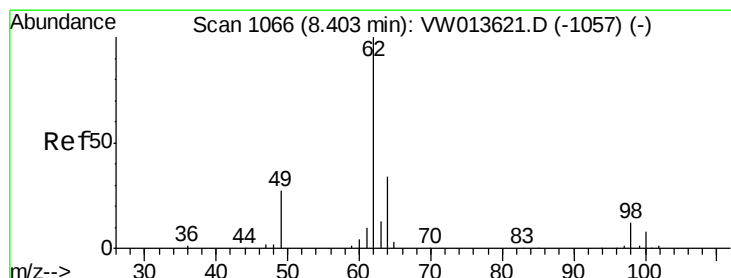
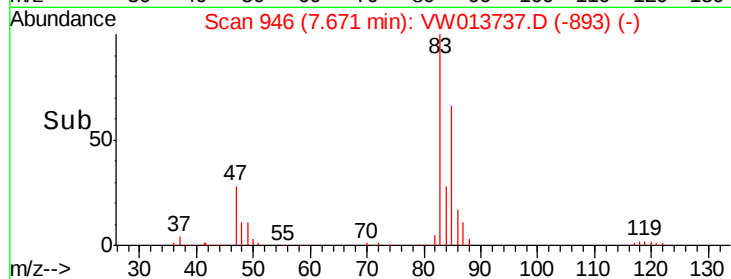
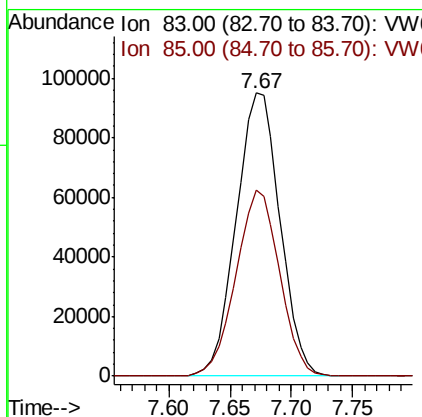
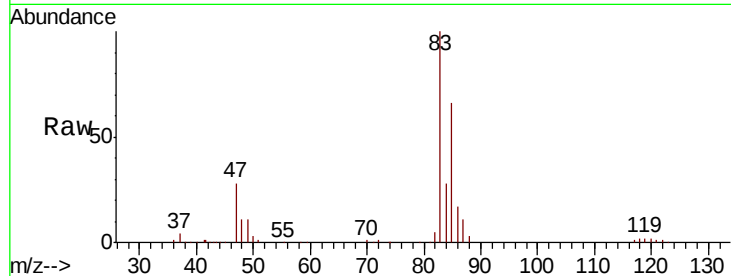




#25
Chloroform
Concen: 24.969 ug/L
RT: 7.67 min Scan# 946
Delta R.T. -0.01 min
Lab File: VW013737.D
Acq: 25 Oct 2019 09:20

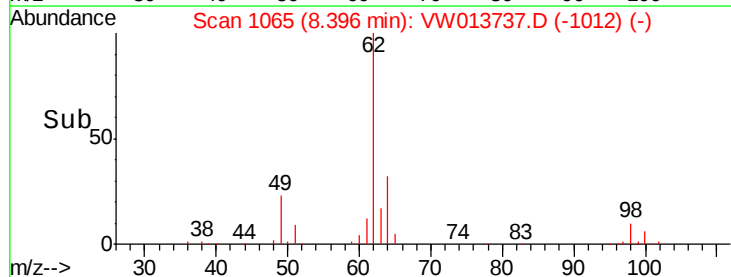
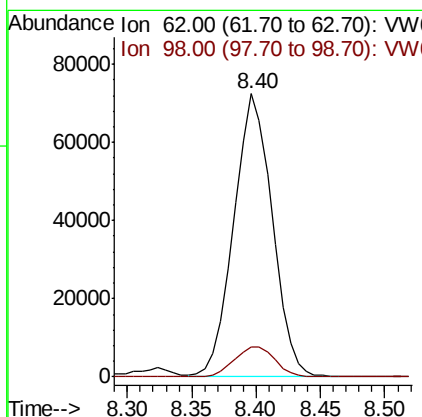
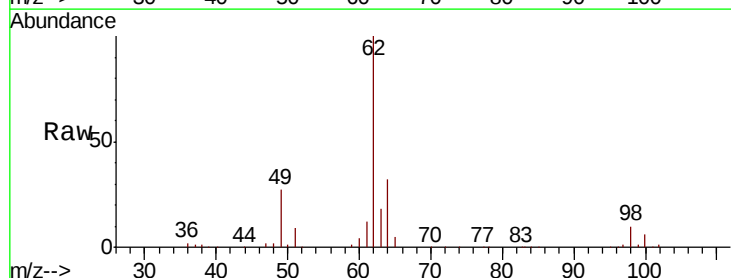
Instrument :
MSVOA_W
ClientSampleId :
VSTD02528

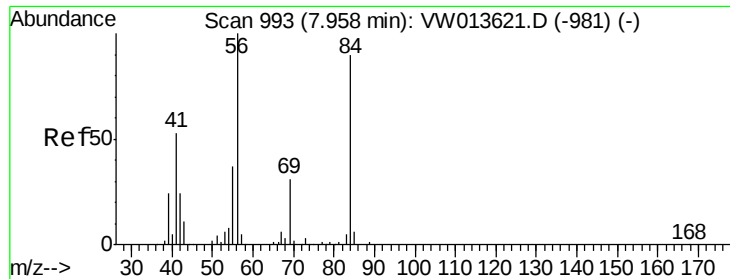
Tot Ion: 83 Resp: 236486
Ion Ratio Lower Upper
83 100
85 65.5 46.1 85.7



#27
1,2-Dichloroethane
Concen: 24.775 ug/L
RT: 8.40 min Scan# 1065
Delta R.T. -0.01 min
Lab File: VW013737.D
Acq: 25 Oct 2019 09:20

Tgt Ion: 62 Resp: 150390
Ion Ratio Lower Upper
62 100
98 10.5 9.6 14.4

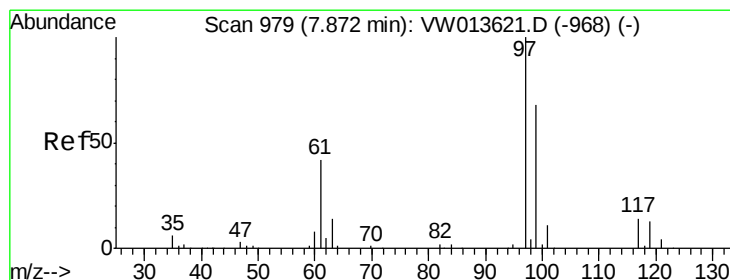
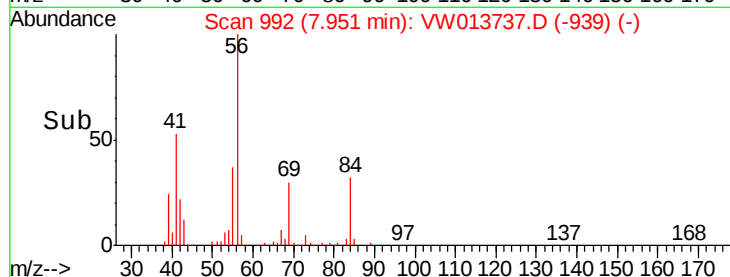
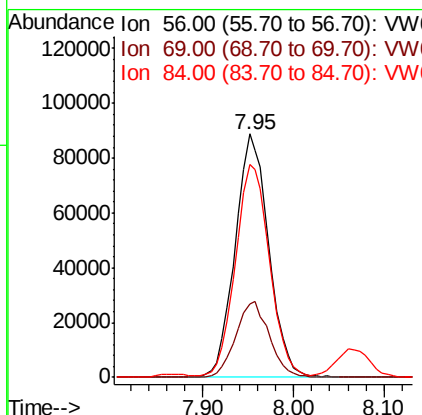
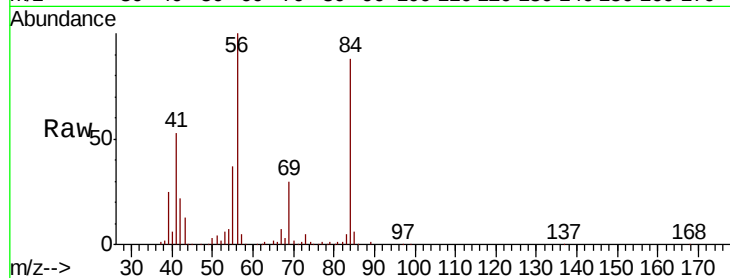




#30
Cyclohexane
Concen: 25.594 ug/L
RT: 7.95 min Scan# 992
Delta R.T. -0.01 min
Lab File: VW013737.D
Acq: 25 Oct 2019 09:20

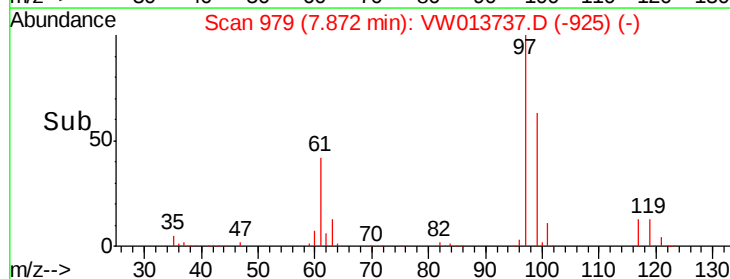
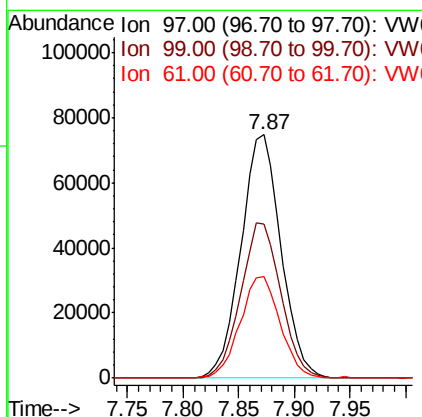
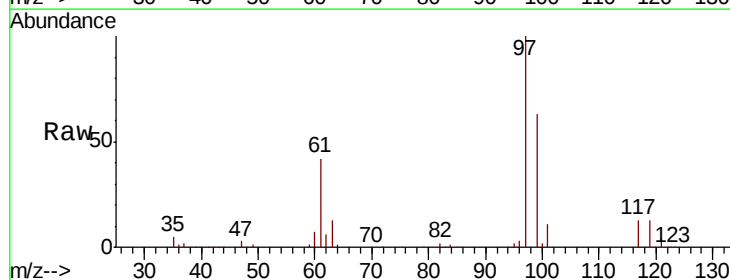
Instrument :
MSVOA_W
ClientSampleId :
VSTD02528

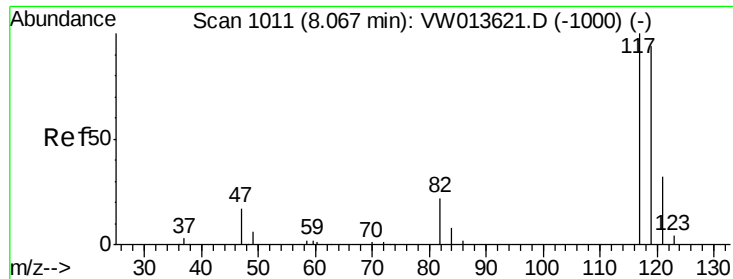
Tot Ion: 56 Resp: 227208
Ion Ratio Lower Upper
56 100
69 31.5 24.6 37.0
84 89.3 71.1 106.7



#31
1,1,1-Trichloroethane
Concen: 26.481 ug/L
RT: 7.87 min Scan# 979
Delta R.T. -0.00 min
Lab File: VW013737.D
Acq: 25 Oct 2019 09:20

Tgt Ion: 97 Resp: 187153
Ion Ratio Lower Upper
97 100
99 63.9 51.7 77.5
61 41.8 33.8 50.8





#32

Carbon tetrachloride

Concen: 26.261 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VW013737.D

Acq: 25 Oct 2019 09:20

Instrument :

MSVOA_W

ClientSampleId :

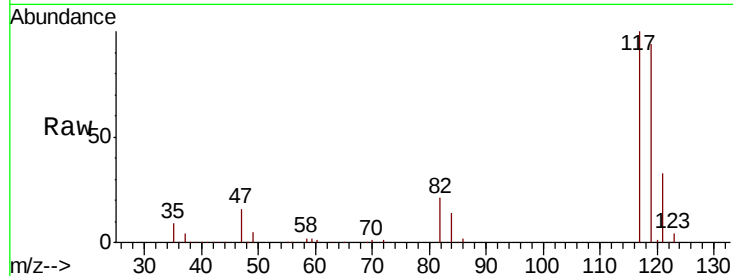
VSTD02528

Tot Ion:117 Resp: 180729

Ion Ratio Lower Upper

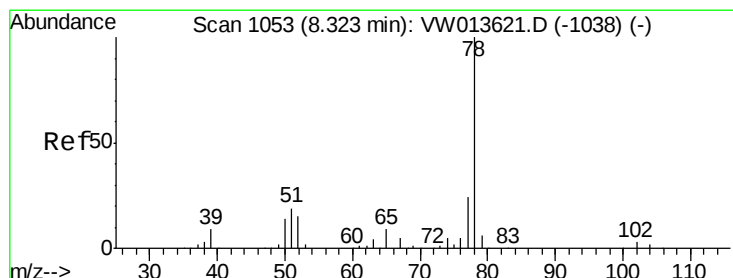
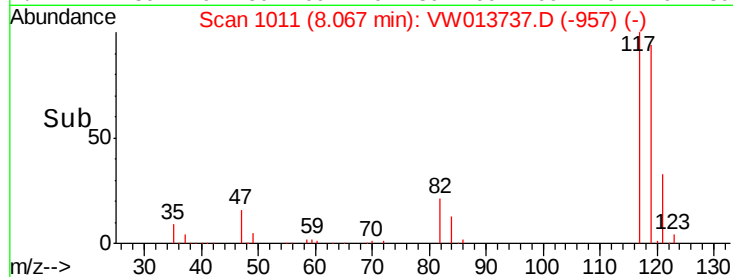
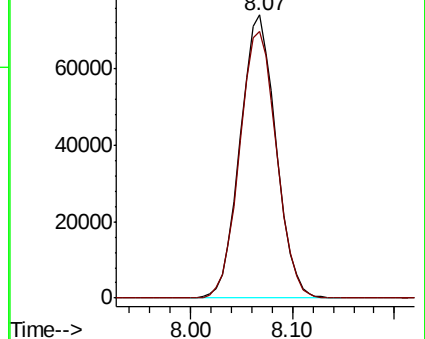
117 100

119 97.0 76.1 114.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 25.444 ug/L

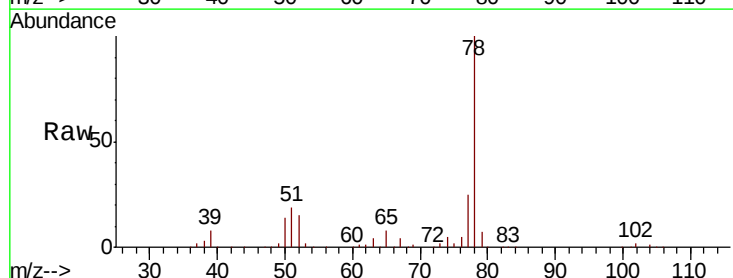
RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

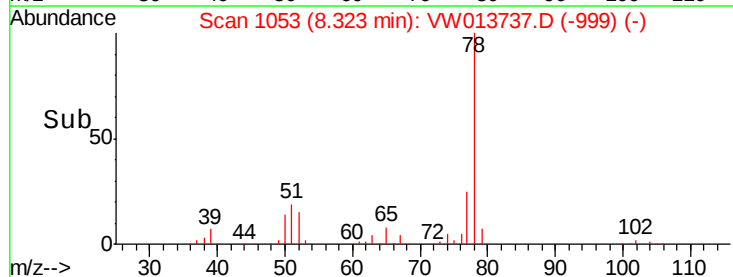
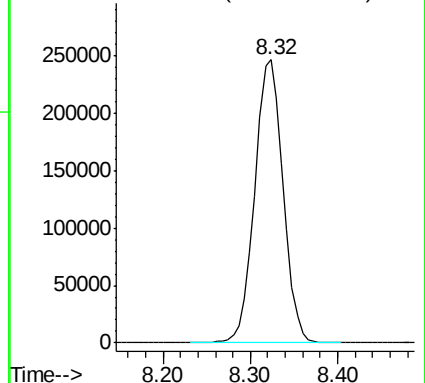
Lab File: VW013737.D

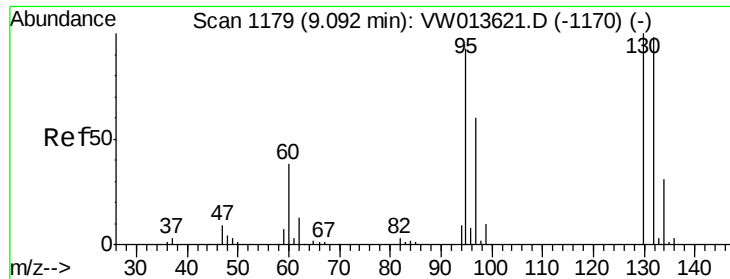
Acq: 25 Oct 2019 09:20

Tgt Ion: 78 Resp: 553200



Abundance Ion 78.00 (77.70 to 78.70): VW

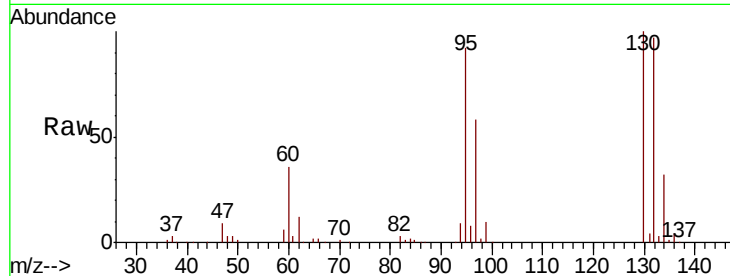




#35
 Trichloroethene
 Concen: 25.731 ug/L
 RT: 9.09 min Scan# 1179
 Delta R.T. -0.00 min
 Lab File: VW013737.D
 Acq: 25 Oct 2019 09:20

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02528

Tot Ion:	95	Resp:	143538
Ion	Ratio	Lower	Upper
95	100		
97	64.4	45.8	85.2
132	104.8	74.3	138.1
130	108.9	76.6	142.3



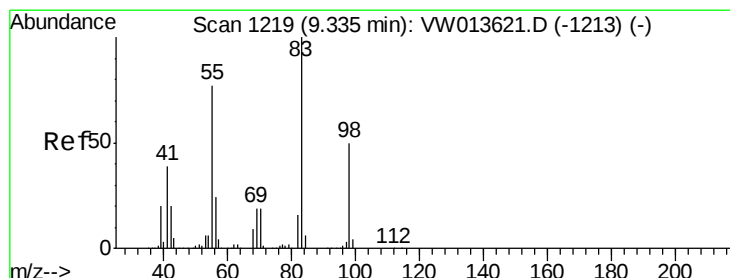
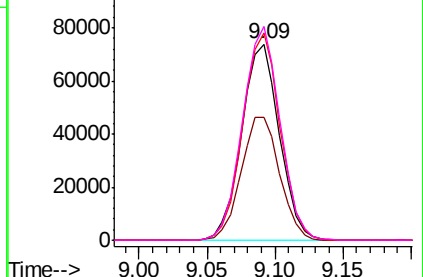
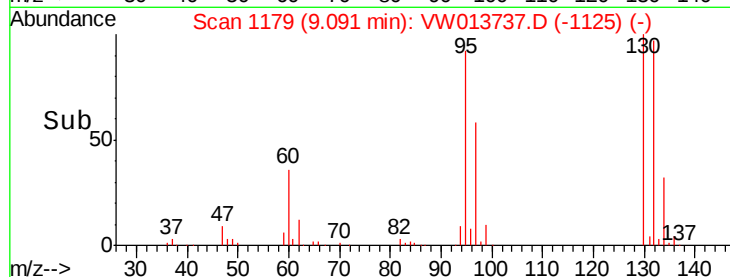
Abundance

Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

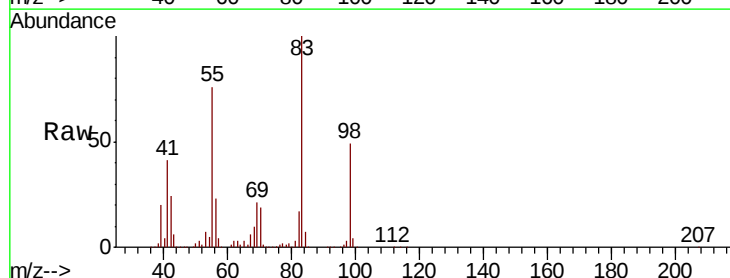
Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#36
 Methylcyclohexane
 Concen: 25.564 ug/L
 RT: 9.34 min Scan# 1219
 Delta R.T. -0.00 min
 Lab File: VW013737.D
 Acq: 25 Oct 2019 09:20

Tgt Ion:	83	Resp:	251356
Ion	Ratio	Lower	Upper
83	100		
55	76.4	60.2	90.4
98	49.1	39.1	58.7

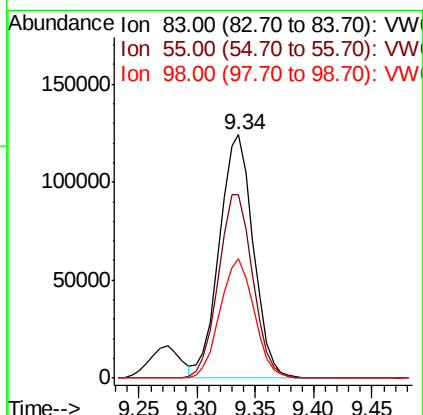
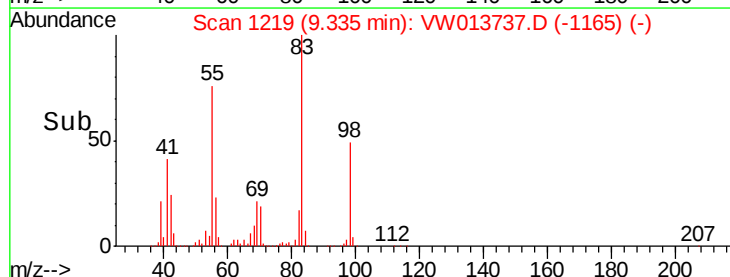


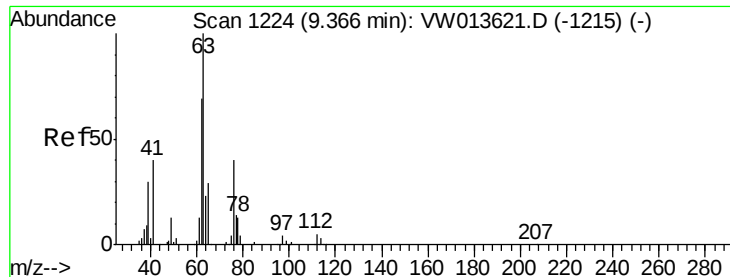
Abundance

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: 25.401 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. -0.00 min

Lab File: VW013737.D

Acq: 25 Oct 2019 09:20

Instrument :

MSVOA_W

ClientSampleId :

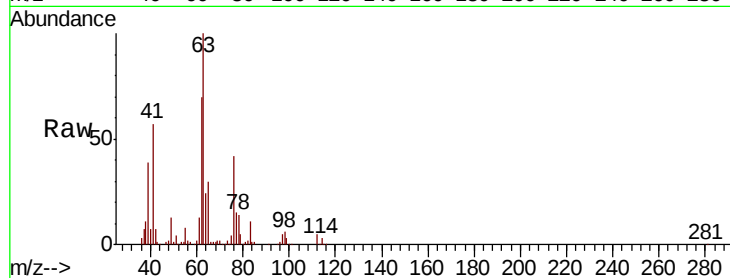
VSTD02528

Tot Ion: 63 Resp: 135035

Ion Ratio Lower Upper

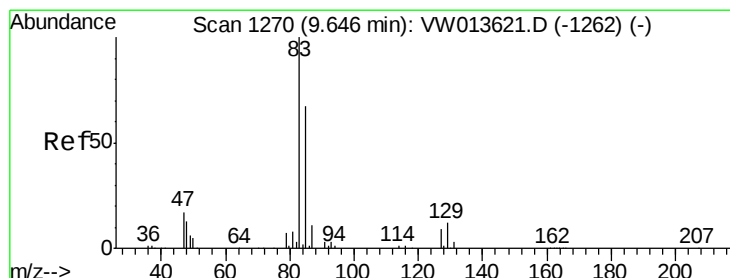
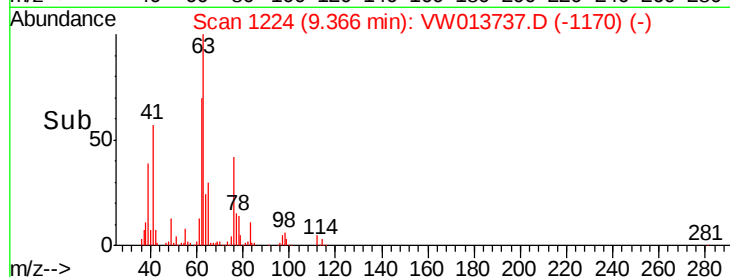
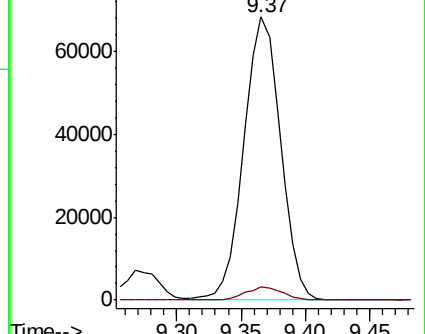
63 100

112 4.6 3.9 5.9



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V



#41

Bromodichloromethane

Concen: 25.935 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. -0.01 min

Lab File: VW013737.D

Acq: 25 Oct 2019 09:20

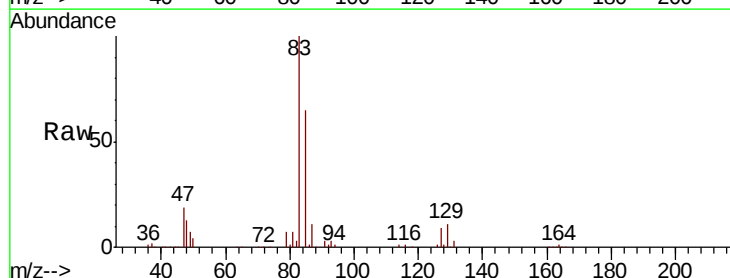
Tgt Ion: 83 Resp: 168935

Ion Ratio Lower Upper

83 100

85 64.6 45.8 85.0

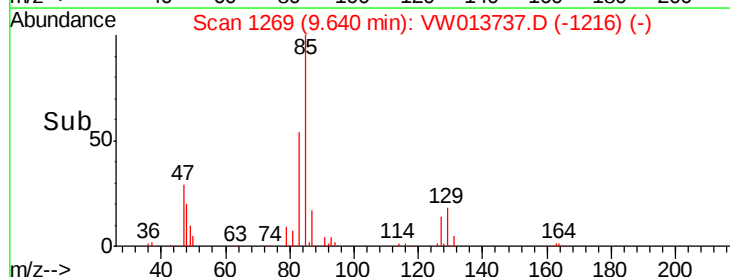
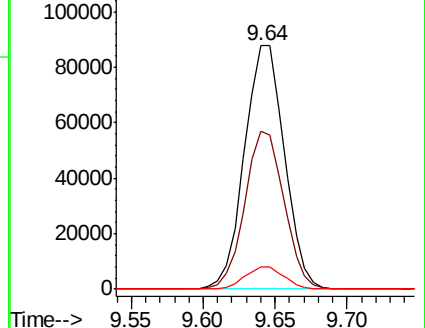
127 9.2 6.6 10.0

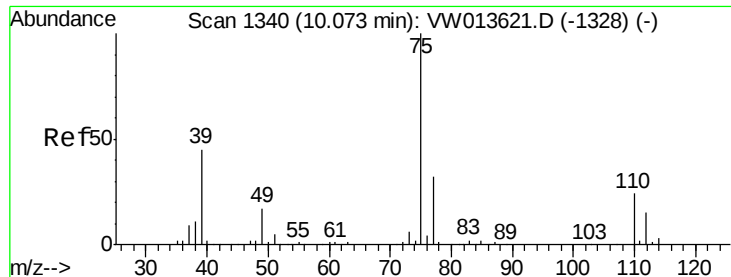


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V





#42

cis-1,3-Dichloropropene

Concen: 25.482 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW013737.D

Acq: 25 Oct 2019 09:20

Instrument :

MSVOA_W

ClientSampleId :

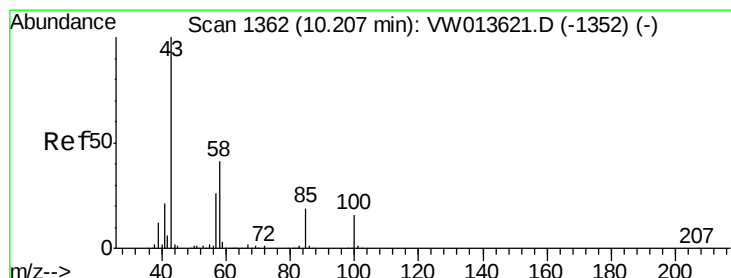
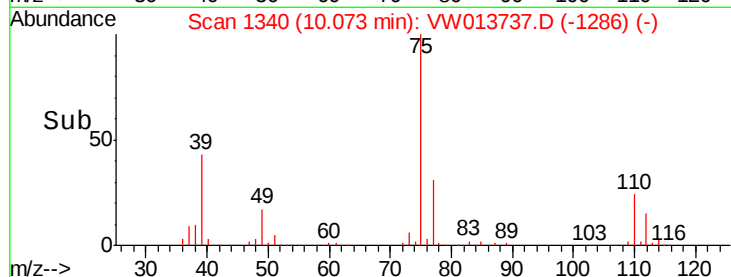
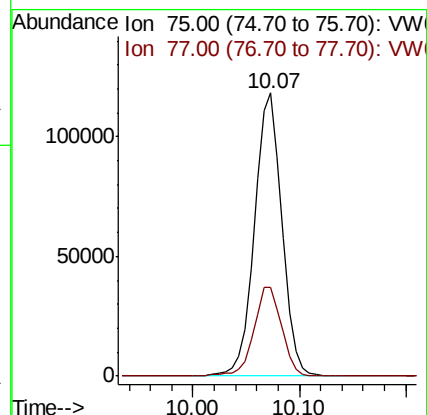
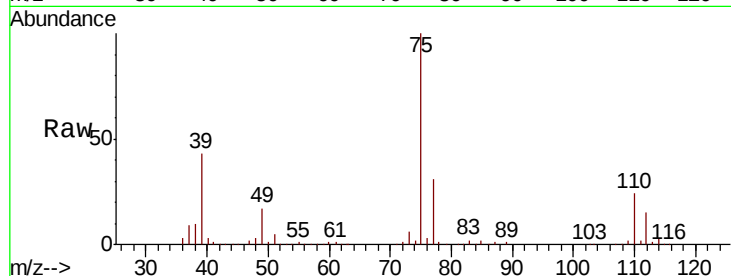
VSTD02528

Tot Ion: 75 Resp: 213873

Ion Ratio Lower Upper

75 100

77 31.3 22.5 41.9



#43

4-Methyl-2-pentanone

Concen: 48.714 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW013737.D

Acq: 25 Oct 2019 09:20

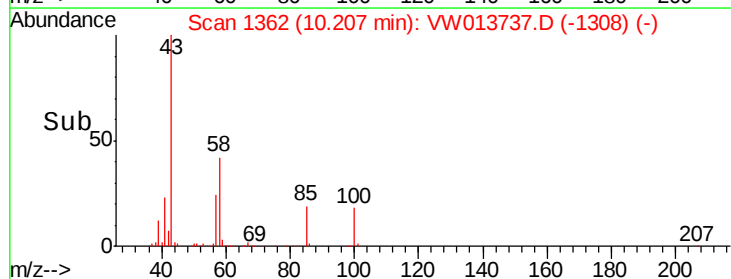
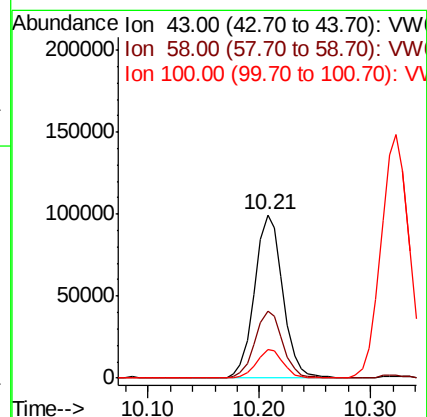
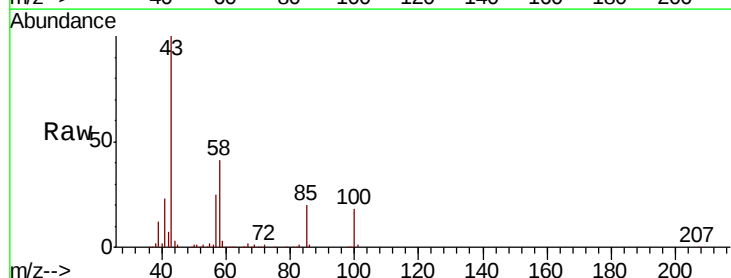
Tgt Ion: 43 Resp: 176684

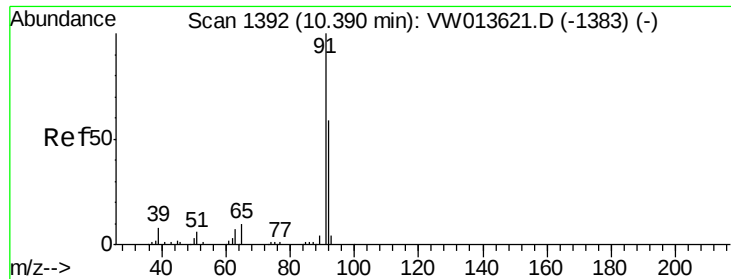
Ion Ratio Lower Upper

43 100

58 40.3 32.8 49.2

100 16.6 13.7 20.5





#44

Toluene

Concen: 25.582 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW013737.D

Acq: 25 Oct 2019 09:20

Instrument :

MSVOA_W

ClientSampleId :

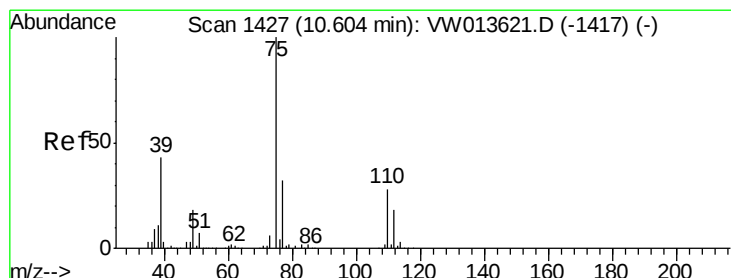
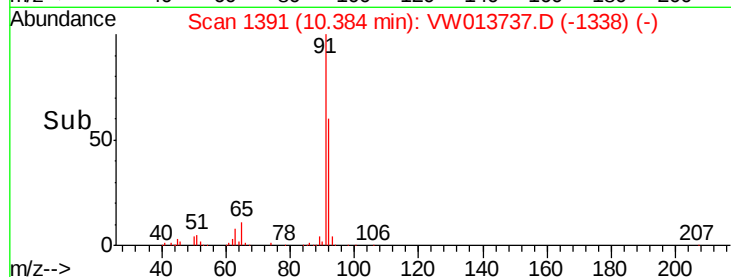
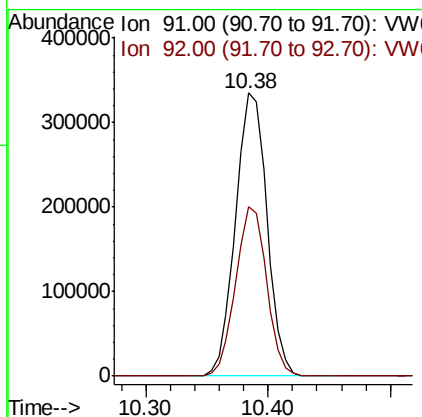
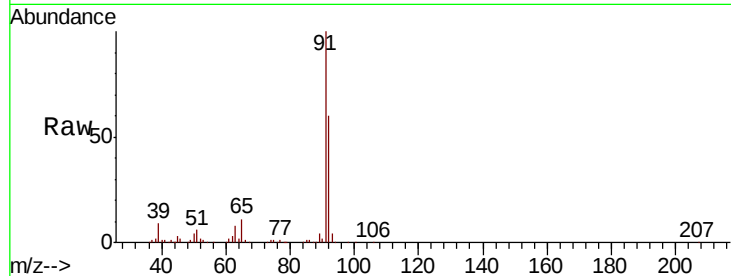
VSTD02528

Tot Ion: 91 Resp: 597568

Ion Ratio Lower Upper

91 100

92 60.1 42.0 78.0



#45

trans-1,3-Dichloropropene

Concen: 25.516 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW013737.D

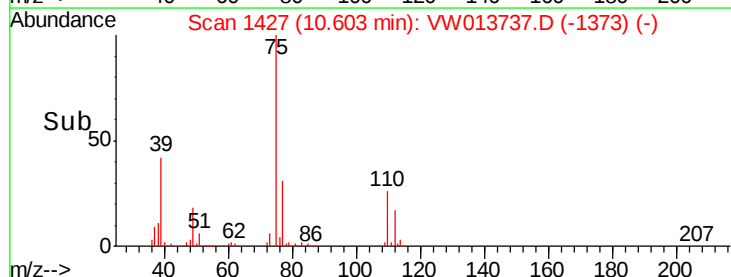
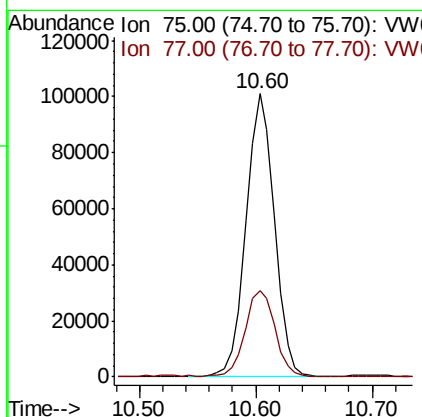
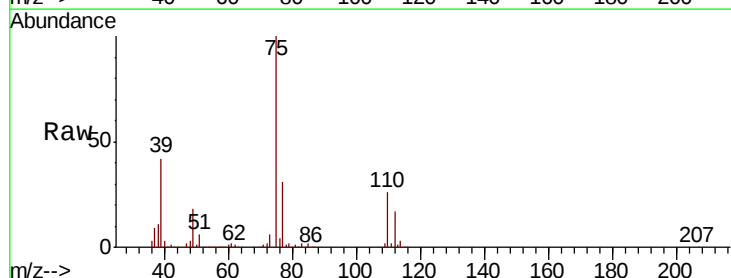
Acq: 25 Oct 2019 09:20

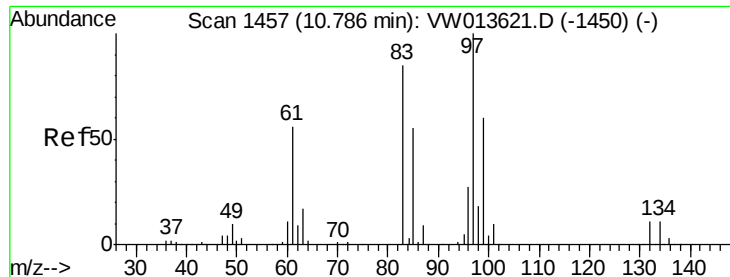
Tgt Ion: 75 Resp: 172871

Ion Ratio Lower Upper

75 100

77 30.6 22.0 41.0





#46

1,1,2-Trichloroethane

Concen: 24.603 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW013737.D

Acq: 25 Oct 2019 09:20

Instrument :

MSVOA_W

ClientSampleId :

VSTD02528

Tot Ion: 97 Resp: 100872

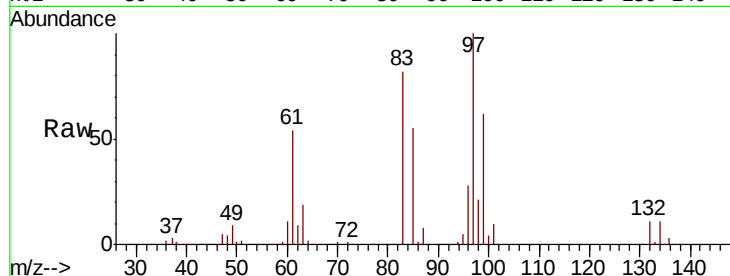
Ion Ratio Lower Upper

97 100

83 81.8 57.7 107.3

85 55.2 38.6 71.6

99 62.4 44.7 82.9

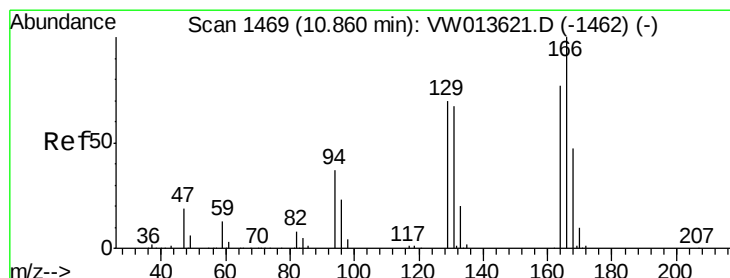
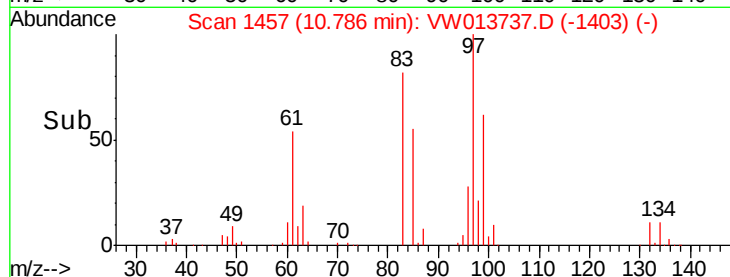
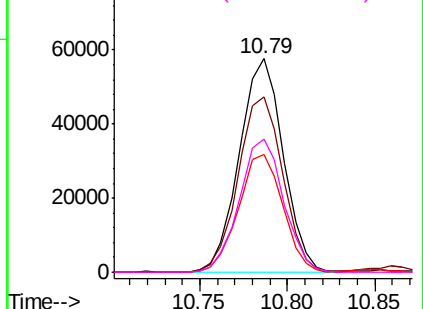


Abundance Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47

Tetrachloroethene

Concen: 25.600 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW013737.D

Acq: 25 Oct 2019 09:20

Tgt Ion:164 Resp: 130719

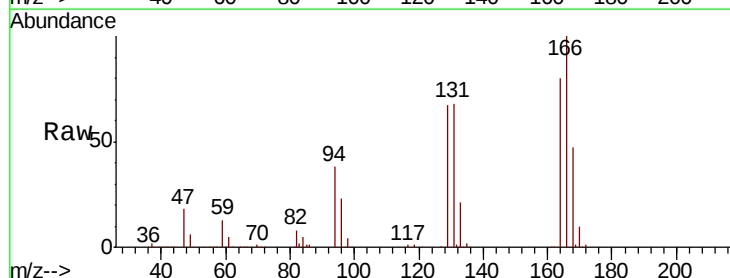
Ion Ratio Lower Upper

164 100

129 84.6 61.8 114.8

131 84.9 59.2 110.0

166 125.5 89.2 165.8

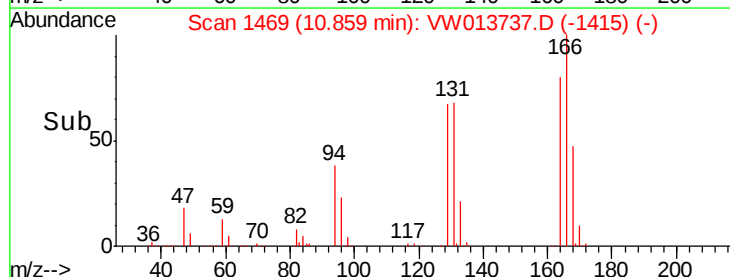
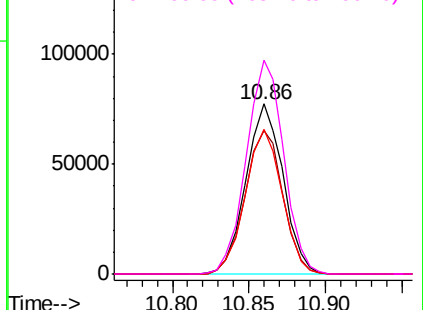


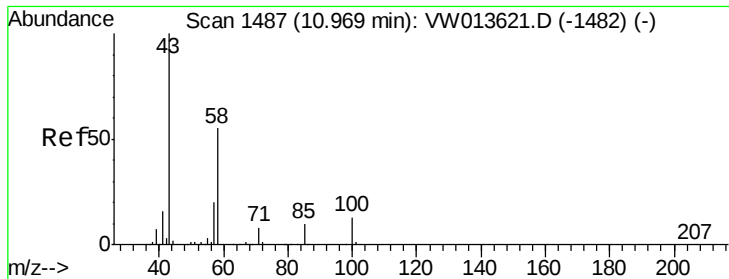
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V





#49

2-Hexanone

Concen: 51.252 ug/L

RT: 10.96 min Scan# 1486

Delta R.T. -0.01 min

Lab File: VW013737.D

Acq: 25 Oct 2019 09:20

Instrument :

MSVOA_W

ClientSampleId :

VSTD02528

Tot Ion: 43 Resp: 131877

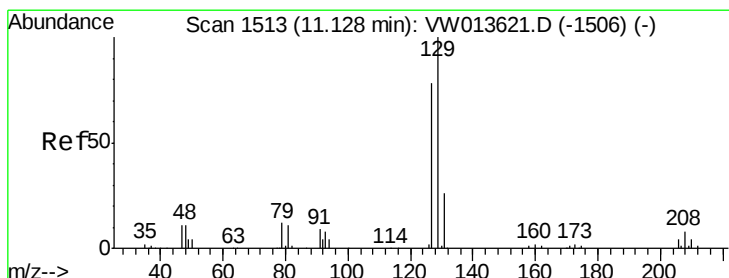
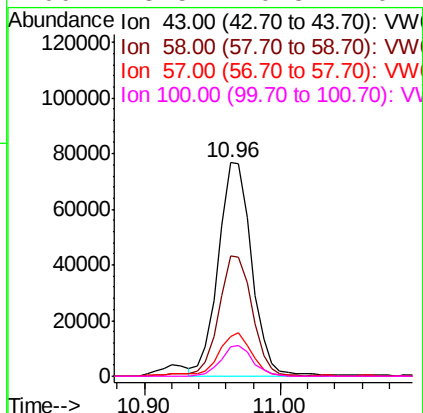
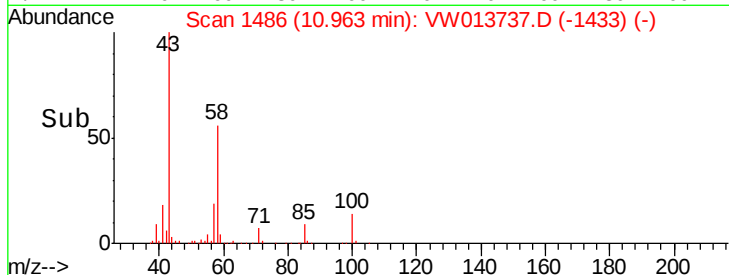
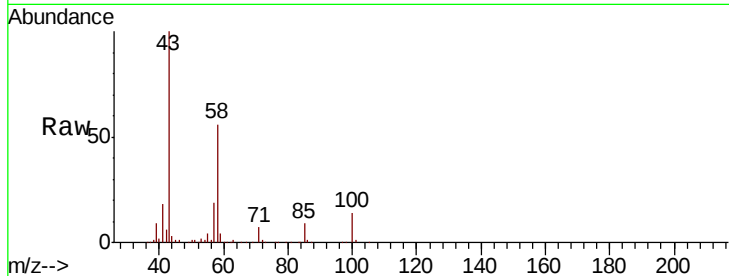
Ion Ratio Lower Upper

43 100

58 55.5 45.8 68.6

57 19.6 15.4 23.2

100 13.5 10.8 16.2



#50

Dibromochloromethane

Concen: 25.490 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW013737.D

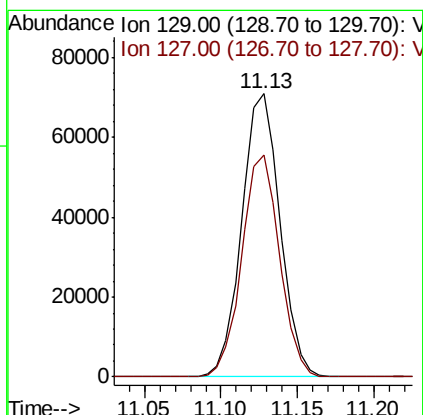
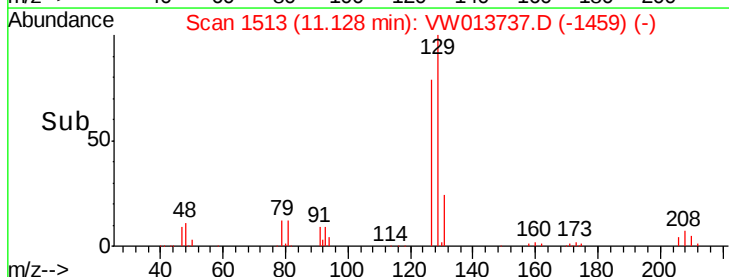
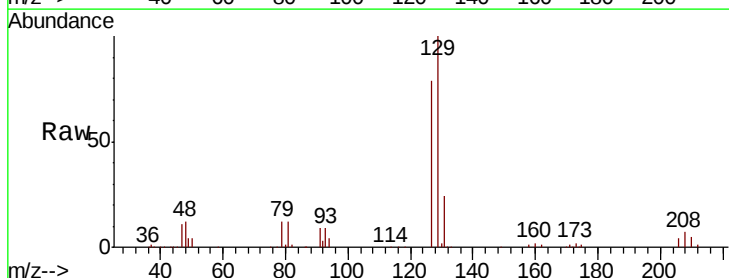
Acq: 25 Oct 2019 09:20

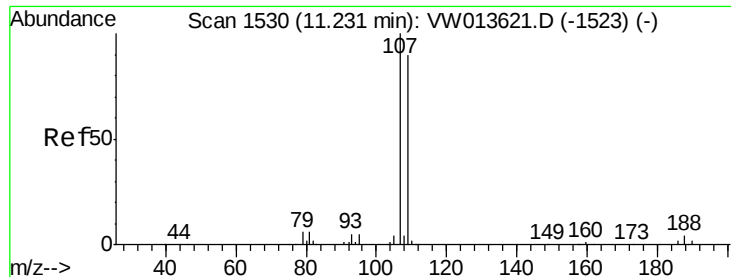
Tgt Ion: 129 Resp: 123337

Ion Ratio Lower Upper

129 100

127 78.5 51.4 95.5

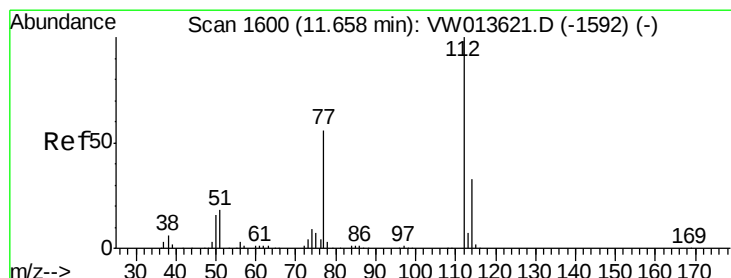
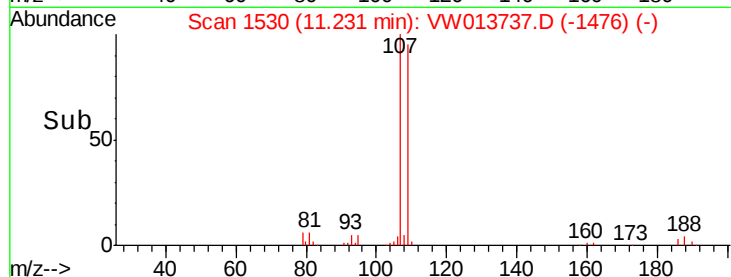
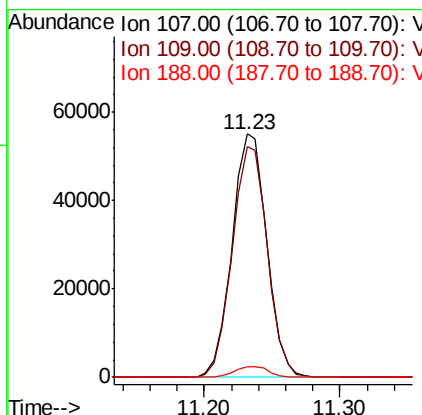
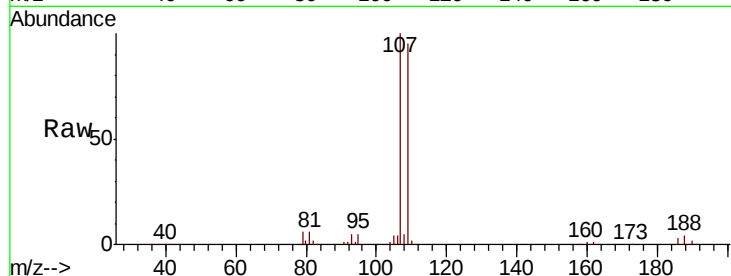




#51
 1,2-Dibromoethane
 Concen: 24.597 ug/L
 RT: 11.23 min Scan# 1530
 Delta R.T. -0.00 min
 Lab File: VW013737.D
 Acq: 25 Oct 2019 09:20

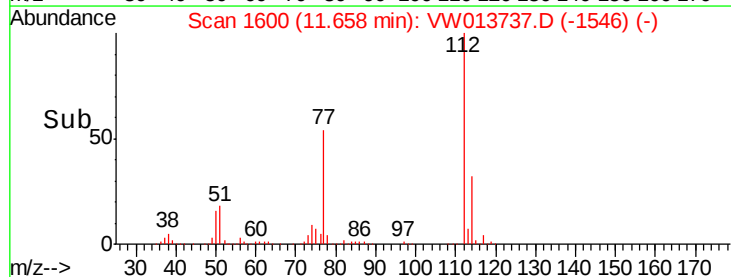
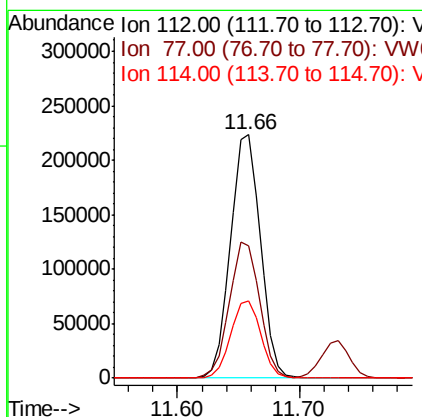
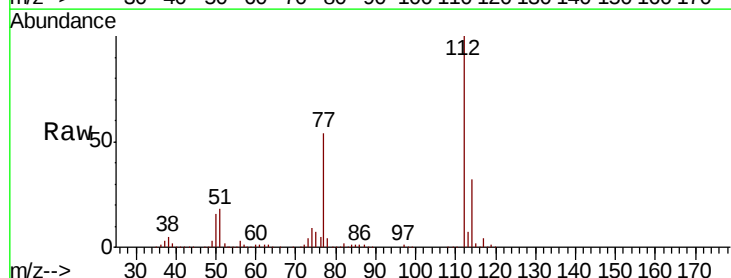
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02528

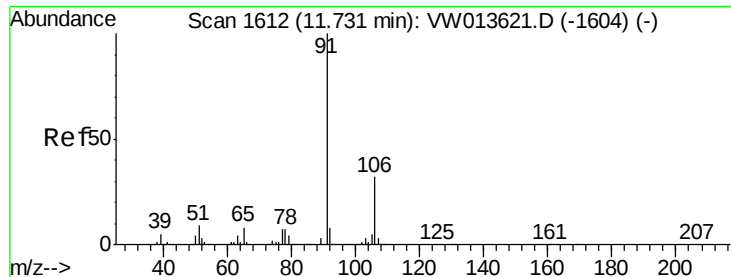
Tot Ion	107	Resp	98068
Ion Ratio	Lower	Upper	
107	100		
109	94.6	64.0	118.8
188	4.2	3.4	5.2



#52
 Chlorobenzene
 Concen: 25.276 ug/L
 RT: 11.66 min Scan# 1600
 Delta R.T. -0.00 min
 Lab File: VW013737.D
 Acq: 25 Oct 2019 09:20

Tgt Ion	112	Resp	377773
Ion Ratio	Lower	Upper	
112	100		
77	54.4	44.1	66.1
114	31.7	23.4	43.4

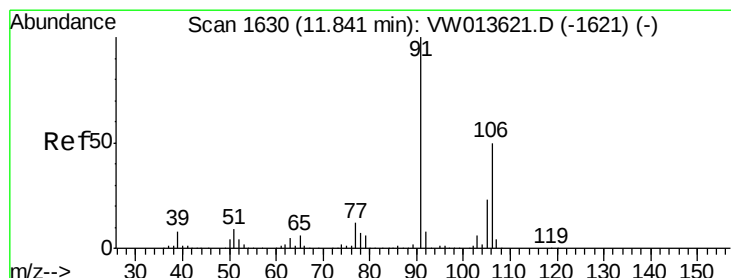
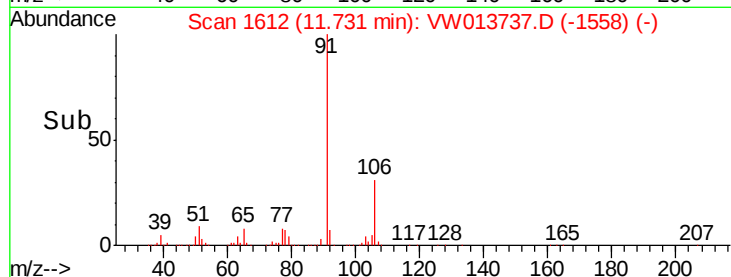
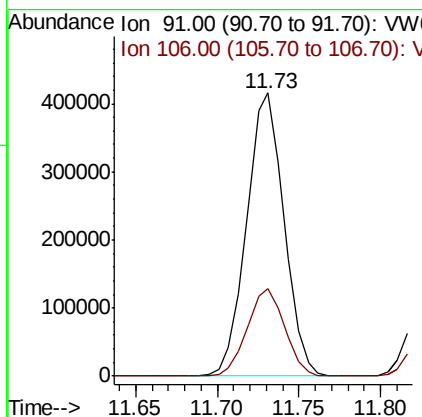
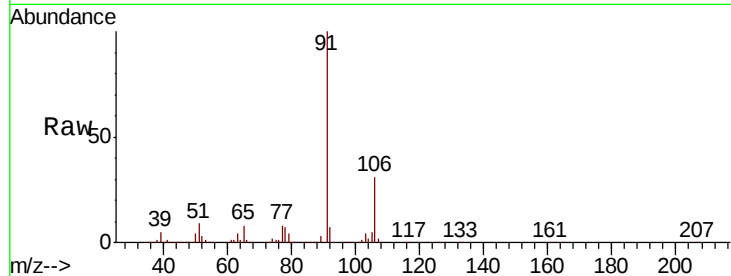




#53
Ethylbenzene
Concen: 25.682 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW013737.D
Acq: 25 Oct 2019 09:20

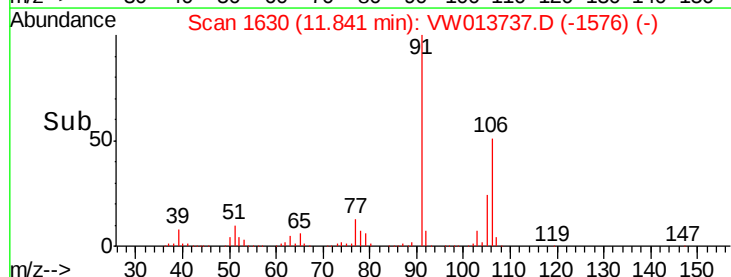
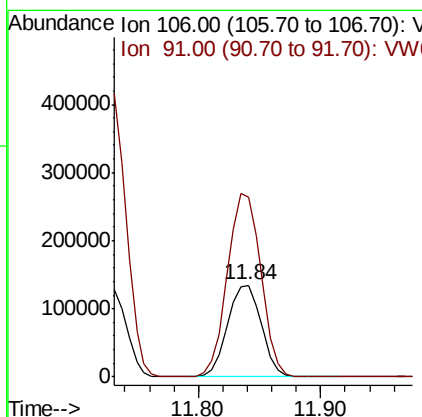
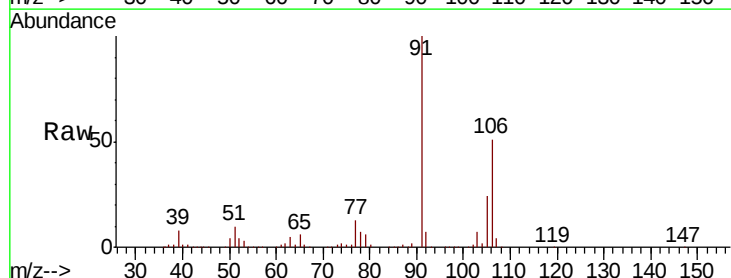
Instrument :
MSVOA_W
ClientSampleId :
VSTD02528

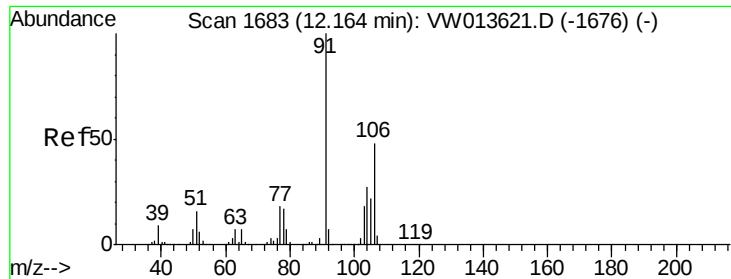
Tot Ion: 91 Resp: 662833
Ion Ratio Lower Upper
91 100
106 31.0 22.3 41.3



#54
m,p-Xylene
Concen: 25.761 ug/L
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW013737.D
Acq: 25 Oct 2019 09:20

Tgt Ion: 106 Resp: 256931
Ion Ratio Lower Upper
106 100
91 196.5 137.7 255.7





#55

o-xylene

Concen: 24.182 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW013737.D

Acq: 25 Oct 2019 09:20

Instrument :

MSVOA_W

ClientSampleId :

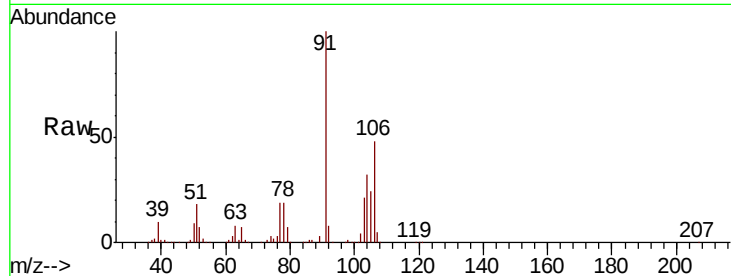
VSTD02528

Tot Ion:106 Resp: 228880

Ion Ratio Lower Upper

106 100

91 208.1 144.8 269.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

300000

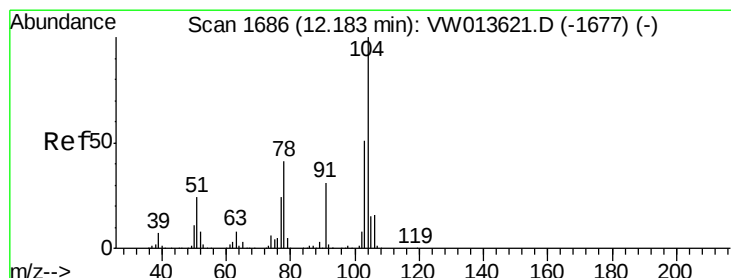
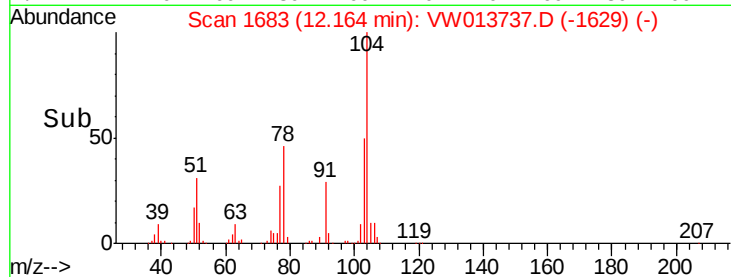
200000

100000

0

12.10 12.15 12.20

Time-->



#56

Styrene

Concen: 25.226 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VW013737.D

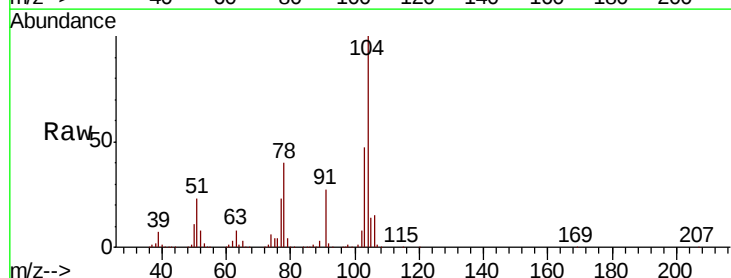
Acq: 25 Oct 2019 09:20

Tgt Ion:104 Resp: 408435

Ion Ratio Lower Upper

104 100

78 39.6 29.3 54.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW

250000

200000

150000

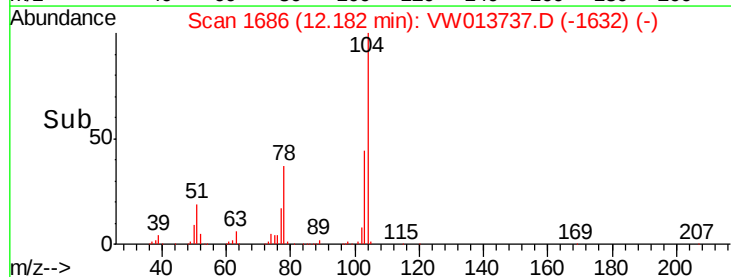
100000

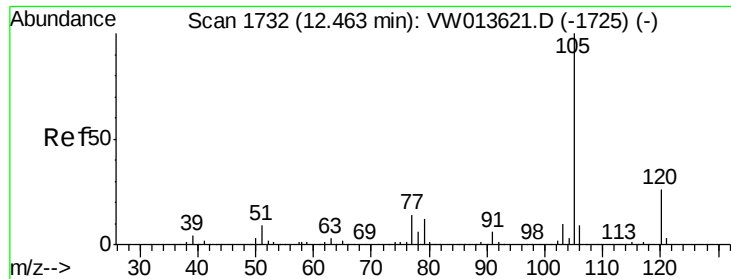
50000

0

12.10 12.20

Time-->





#57

Isopropylbenzene

Concen: 25.405 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW013737.D

Acq: 25 Oct 2019 09:20

Instrument :

MSVOA_W

ClientSampleID :

VSTD02528

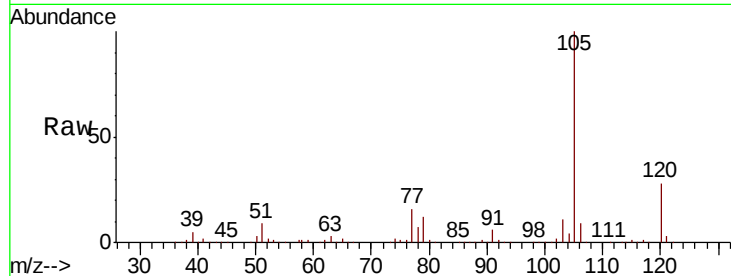
Tot Ion:105 Resp: 644969

Ion Ratio Lower Upper

105 100

120 26.9 21.4 32.2

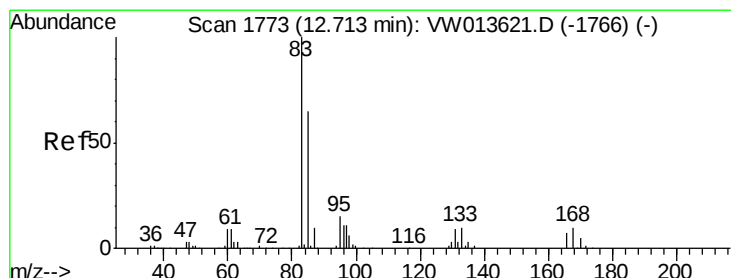
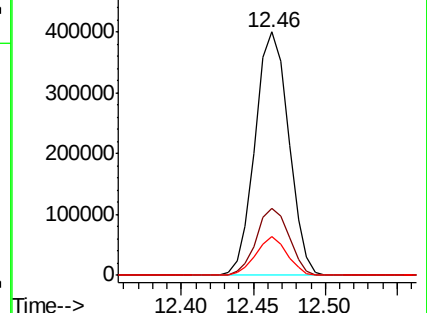
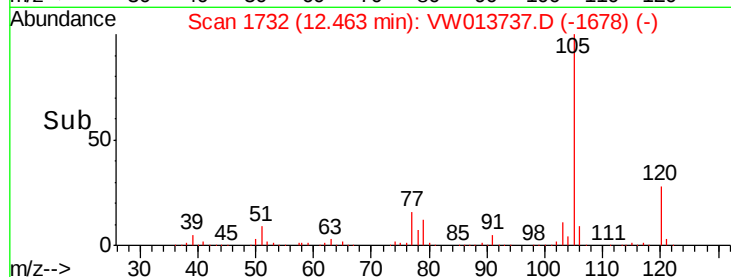
77 14.8 11.4 17.0



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: 25.435 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW013737.D

Acq: 25 Oct 2019 09:20

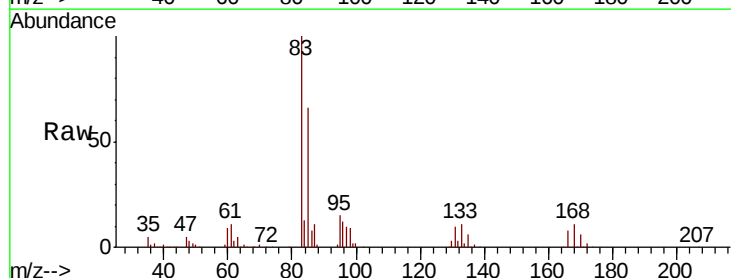
Tgt Ion: 83 Resp: 122223

Ion Ratio Lower Upper

83 100

85 66.3 44.9 83.3

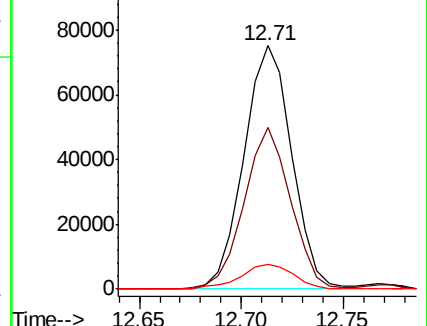
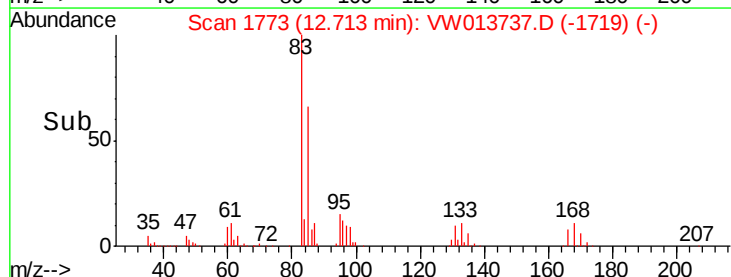
131 10.0 8.6 13.0

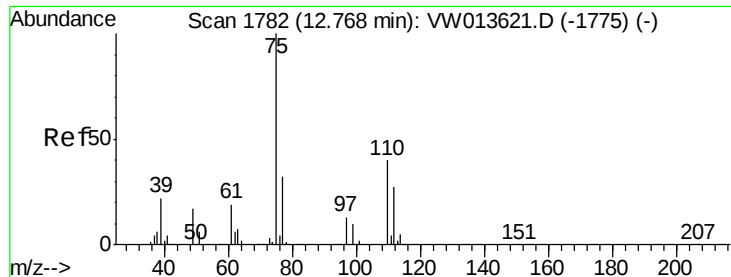


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 24.912 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW013737.D

Acq: 25 Oct 2019 09:20

Instrument :

MSVOA_W

ClientSampleId :

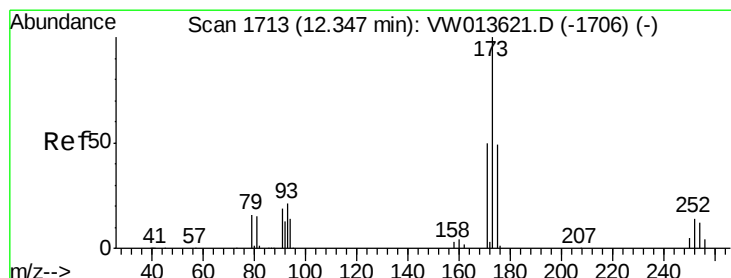
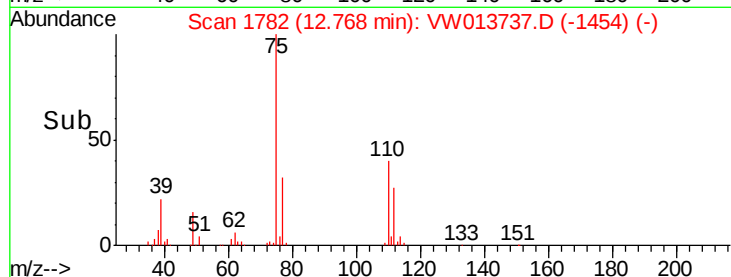
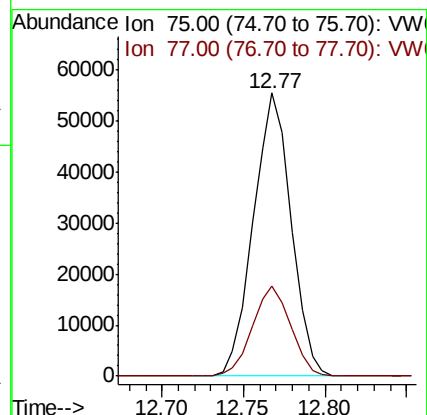
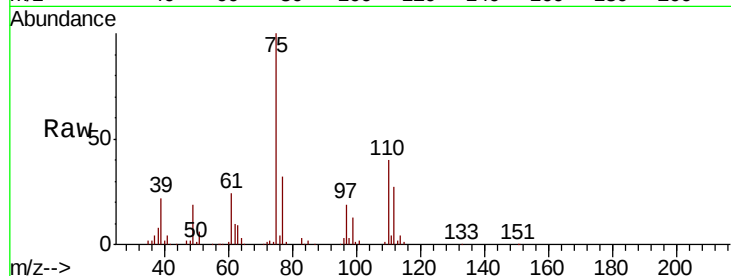
VSTD02528

Tot Ion: 75 Resp: 89273

Ion Ratio Lower Upper

75 100

77 32.4 26.4 39.6



#62

Bromoform

Concen: 23.896 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW013737.D

Acq: 25 Oct 2019 09:20

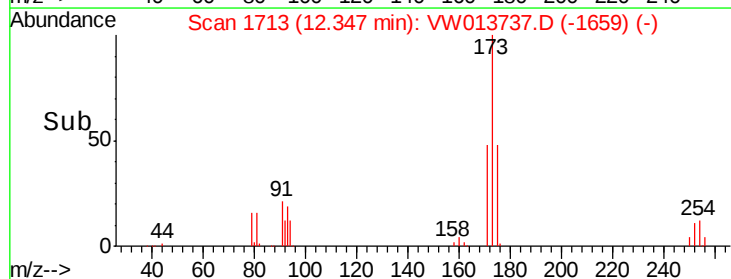
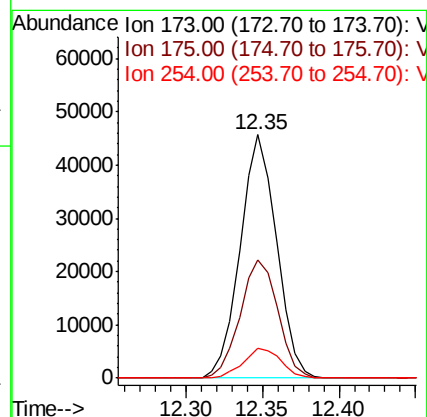
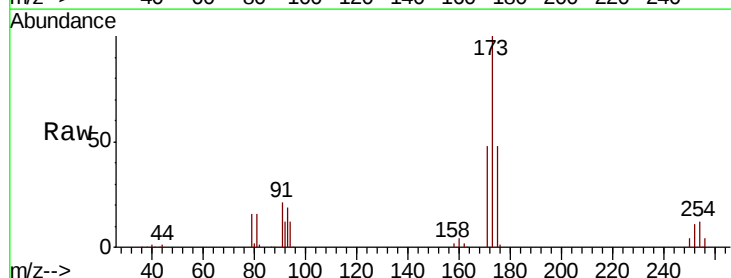
Tgt Ion: 173 Resp: 75579

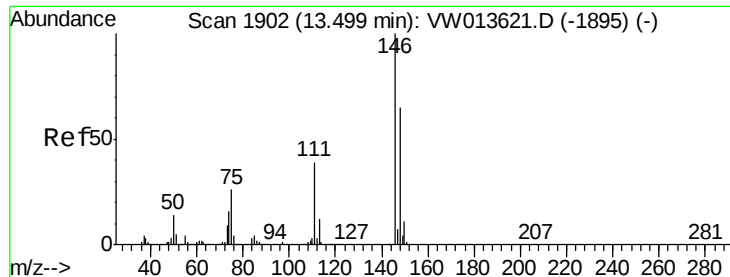
Ion Ratio Lower Upper

173 100

175 50.4 39.1 58.7

254 12.7 9.6 14.4





#63

1,3-Dichlorobenzene

Concen: 24.511 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW013737.D

Acq: 25 Oct 2019 09:20

Instrument :

MSVOA_W

ClientSampleId :

VSTD02528

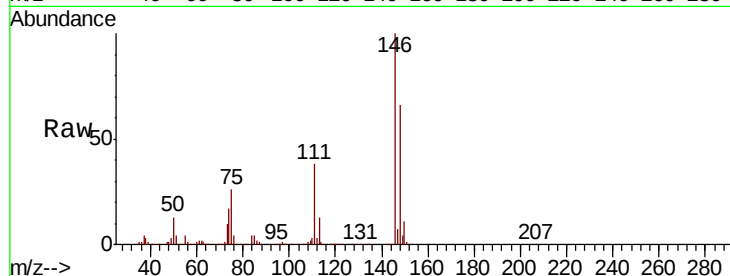
Tot Ion:146 Resp: 306940

Ion Ratio Lower Upper

146 100

111 37.8 26.1 48.5

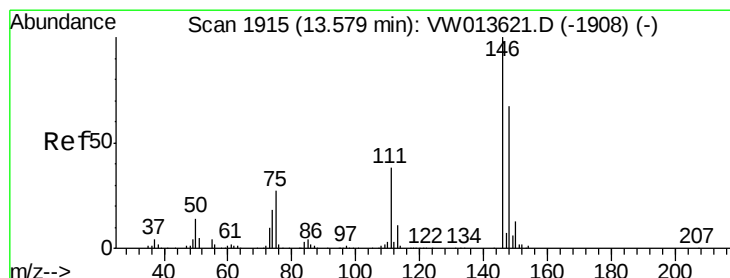
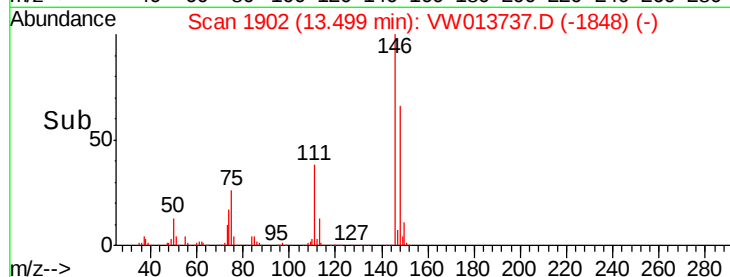
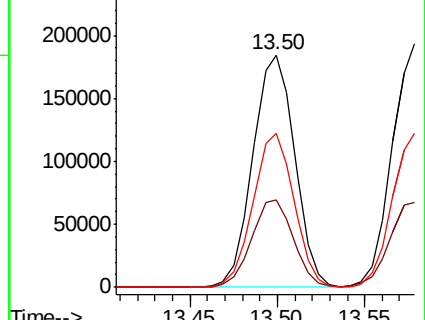
148 66.4 45.8 85.2



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



#64

1,4-Dichlorobenzene

Concen: 24.550 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW013737.D

Acq: 25 Oct 2019 09:20

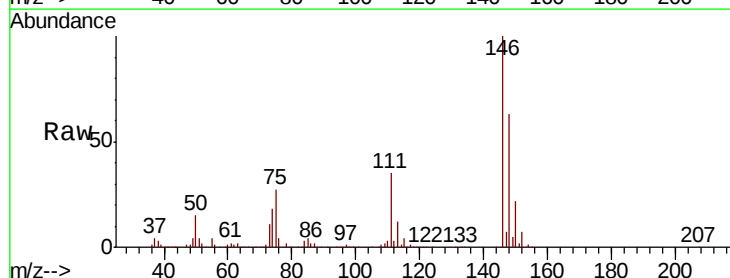
Tgt Ion:146 Resp: 308934

Ion Ratio Lower Upper

146 100

111 35.1 24.8 46.0

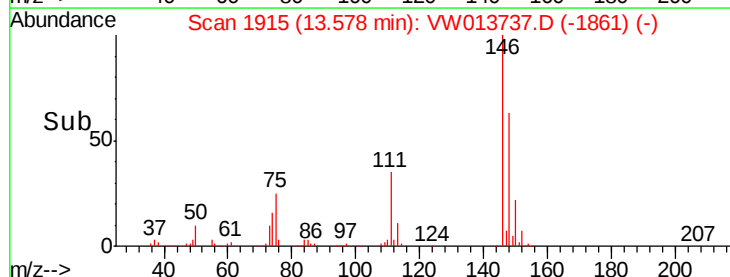
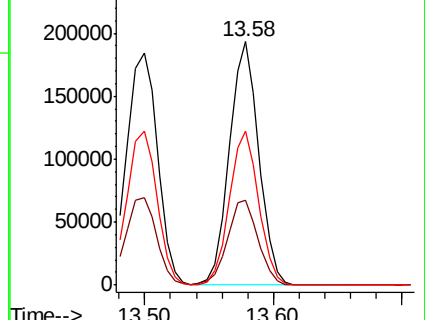
148 63.4 43.0 79.8

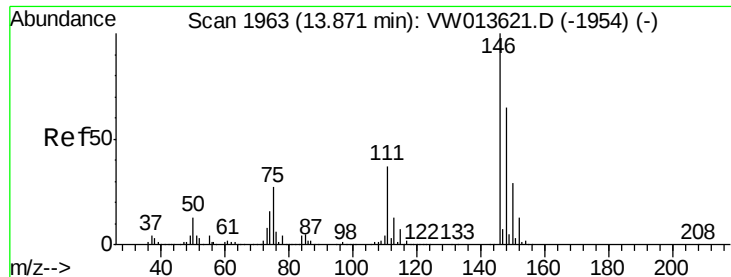


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 24.706 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. -0.00 min

Lab File: VW013737.D

Acq: 25 Oct 2019 09:20

Instrument :

MSVOA_W

ClientSampleId :

VSTD02528

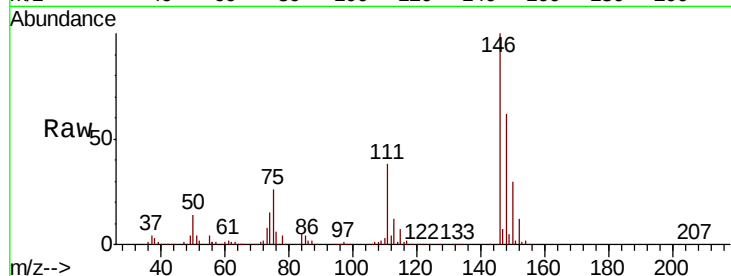
Tot Ion:146 Resp: 280313

Ion Ratio Lower Upper

146 100

111 38.2 30.7 46.1

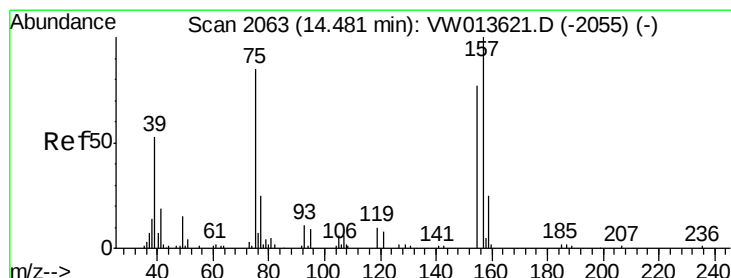
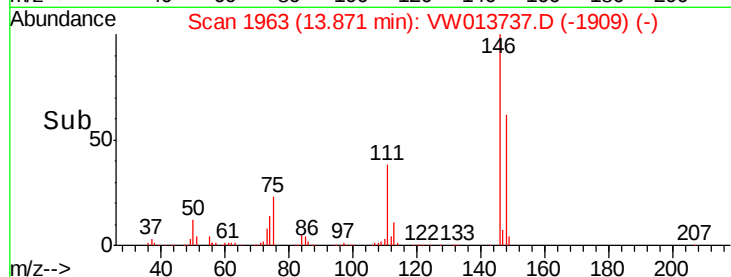
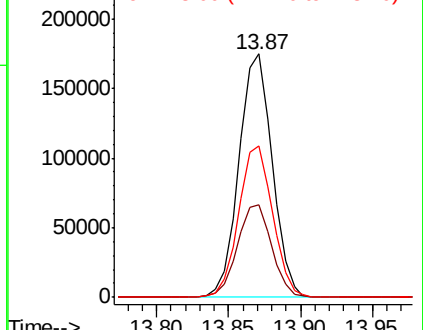
148 62.1 53.3 79.9



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: 24.194 ug/L

RT: 14.48 min Scan# 2063

Delta R.T. -0.00 min

Lab File: VW013737.D

Acq: 25 Oct 2019 09:20

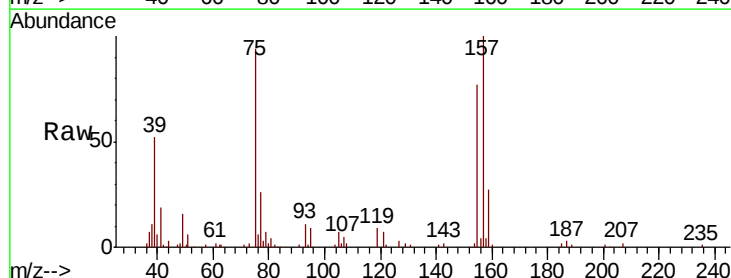
Tgt Ion: 75 Resp: 18868

Ion Ratio Lower Upper

75 100

157 106.9 99.4 149.0

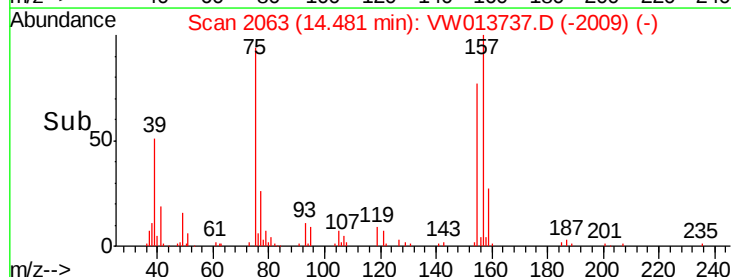
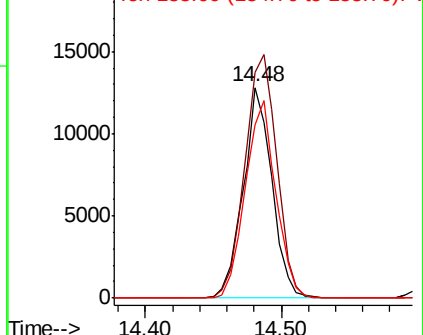
155 82.5 69.7 104.5

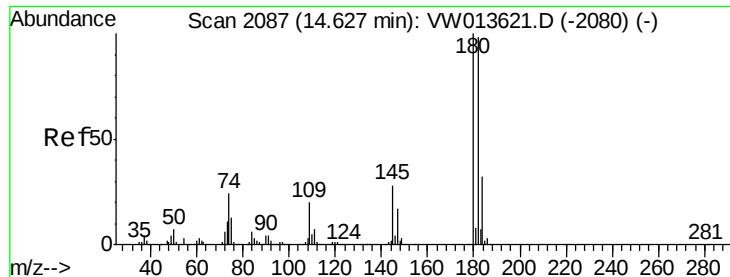


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

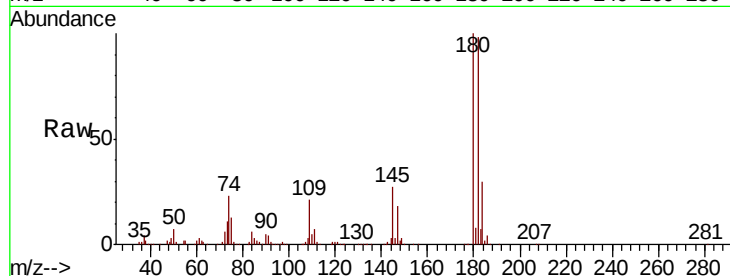




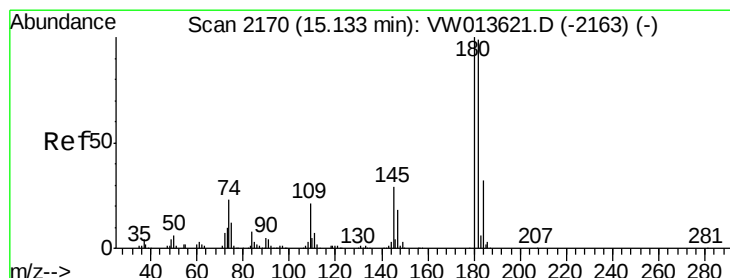
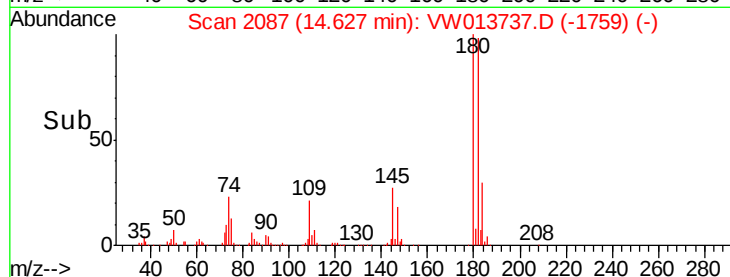
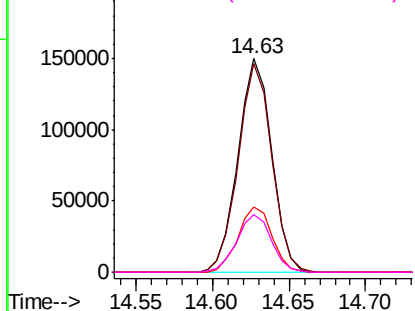
#67
 1,3,5-Trichlorobenzene
 Concen: 24.694 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VW013737.D
 Acq: 25 Oct 2019 09:20

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02528

Tot Ion:180	Resp:	229889
Ion Ratio	Lower	Upper
180	100	
182	96.7	76.2 114.4
184	30.6	24.1 36.1
145	27.4	21.8 32.8

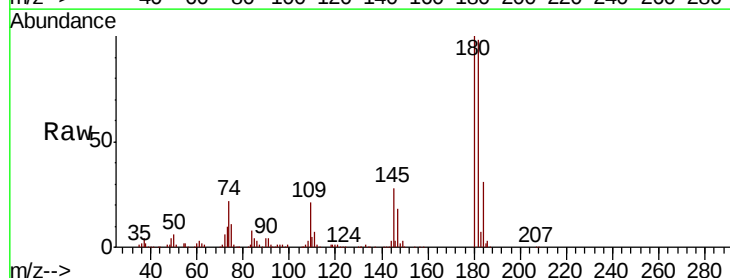


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

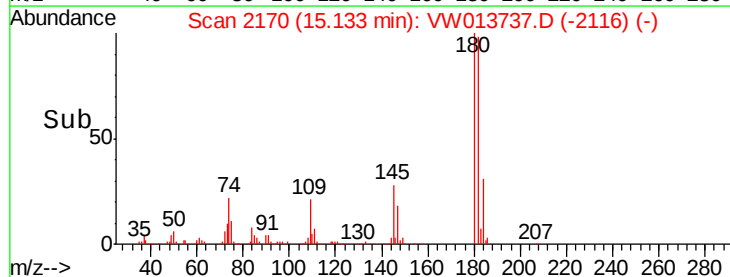
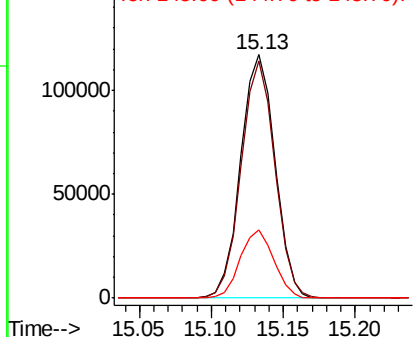


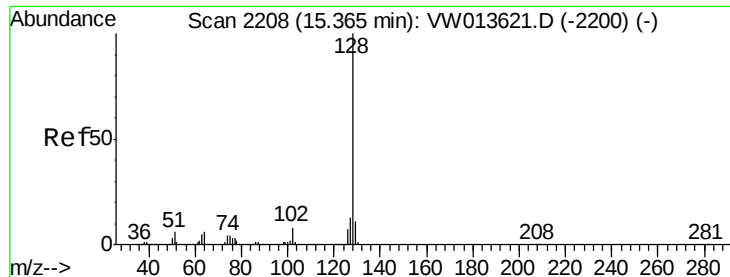
#68
 1,2,4-trichlorobenzene
 Concen: 24.490 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW013737.D
 Acq: 25 Oct 2019 09:20

Tgt Ion:180	Resp:	193555
Ion Ratio	Lower	Upper
180	100	
182	95.7	75.8 113.8
145	27.4	22.6 34.0



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





#69

Naphthalene

Concen: 24.587 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW013737.D

Acq: 25 Oct 2019 09:20

Instrument :

MSVOA_W

ClientSampleId :

VSTD02528

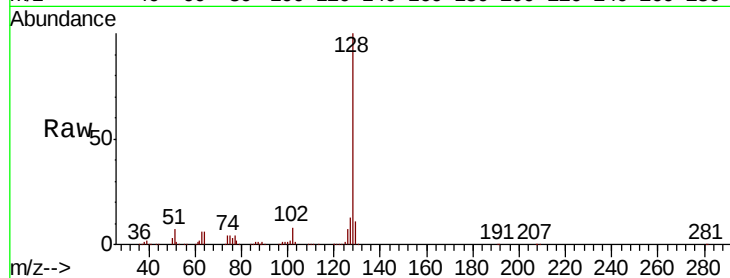
Tot Ion:128 Resp: 352117

Ion Ratio Lower Upper

128 100

129 10.9 8.6 13.0

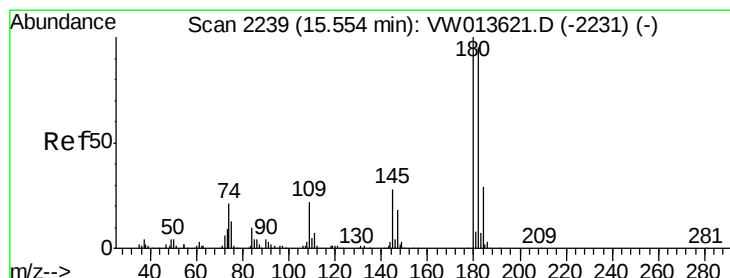
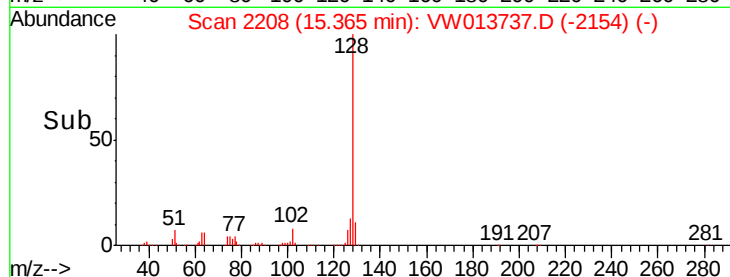
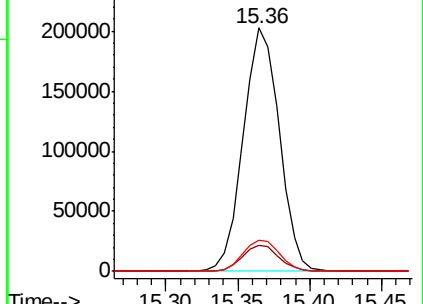
127 13.1 10.5 15.7



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: 24.404 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. -0.00 min

Lab File: VW013737.D

Acq: 25 Oct 2019 09:20

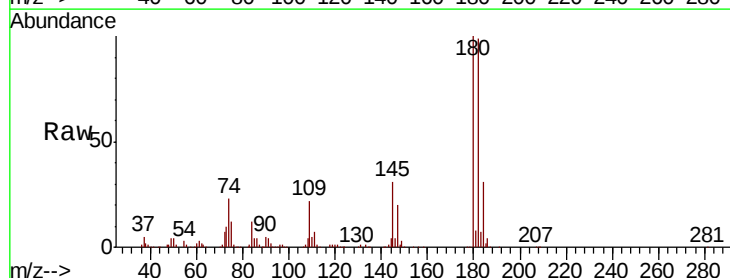
Tgt Ion:180 Resp: 172725

Ion Ratio Lower Upper

180 100

182 97.5 77.0 115.4

145 29.9 24.1 36.1



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

