

Data File : VW010971.D
Acq On : 25 Jun 2019 16:37
Operator : SY/VA
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD02530

Quant Time: Jun 26 03:00:21 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM062419S.M
Quant Title : VOC Analysis
QLast Update : Wed Jun 26 02:56:20 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	339393	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	315614	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	156016	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	98533	22.40	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	89.60%
7) Chloroethane-d5	2.88	69	76265	22.49	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	89.96%
10) 1,1-Dichloroethene-d2	4.02	63	236873	22.78	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	91.12%
20) 2-Butanone-d5	7.07	46	102688	49.71	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	99.42%
24) Chloroform-d	7.65	84	217988	23.82	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	95.28%
26) 1,2-Dichloroethane-d4	8.31	65	139078	24.51	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	98.04%
29) Benzene-d6	8.27	84	432180	22.81	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	91.24%
33) 1,2-Dichloropropane-d6	9.27	67	147619	23.58	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	94.32%
37) Toluene-d8	10.32	98	395597	23.14	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	92.56%
38) trans-1,3-Dichloropropene-	10.58	79	62291	22.48	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	89.92%
39) 2-Hexanone-d5	10.93	63	68462	48.65	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	97.30%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	128028	24.81	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	99.24%
61) 1,2-Dichlorobenzene-d4	13.86	152	138928	23.59	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	94.36%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	110862	23.238	ug/L 99
3) Chloromethane	2.21	50	113181	22.314	ug/L 99
5) Vinyl chloride	2.36	62	148728	24.524	ug/L 95
6) Bromomethane	2.77	94	71145	23.767	ug/L 99
8) Chloroethane	2.92	64	78195	24.346	ug/L 99
9) Trichlorofluoromethane	3.25	101	41006	20.022	ug/L 98
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	115038	24.169	ug/L 98
12) 1,1-Dichloroethene	4.04	96	113604	23.913	ug/L 96
13) Acetone	4.12	43	91340	46.169	ug/L 99
14) Carbon disulfide	4.39	76	320514	22.787	ug/L 99
15) Methyl Acetate	4.67	43	86753	25.332	ug/L 99
16) Methylene chloride	4.92	84	127523	25.370	ug/L 100
17) Methyl tert-butyl Ether	5.42	73	187151	25.161	ug/L 100
18) trans-1,2-Dichloroethene	5.42	96	114582	23.986	ug/L 100
19) 1,1-Dichloroethane	6.21	63	236884	24.278	ug/L 99
21) 2-Butanone	7.17	43	128347	49.330	ug/L 99
22) cis-1,2-Dichloroethene	7.17	96	126993	24.707	ug/L 97

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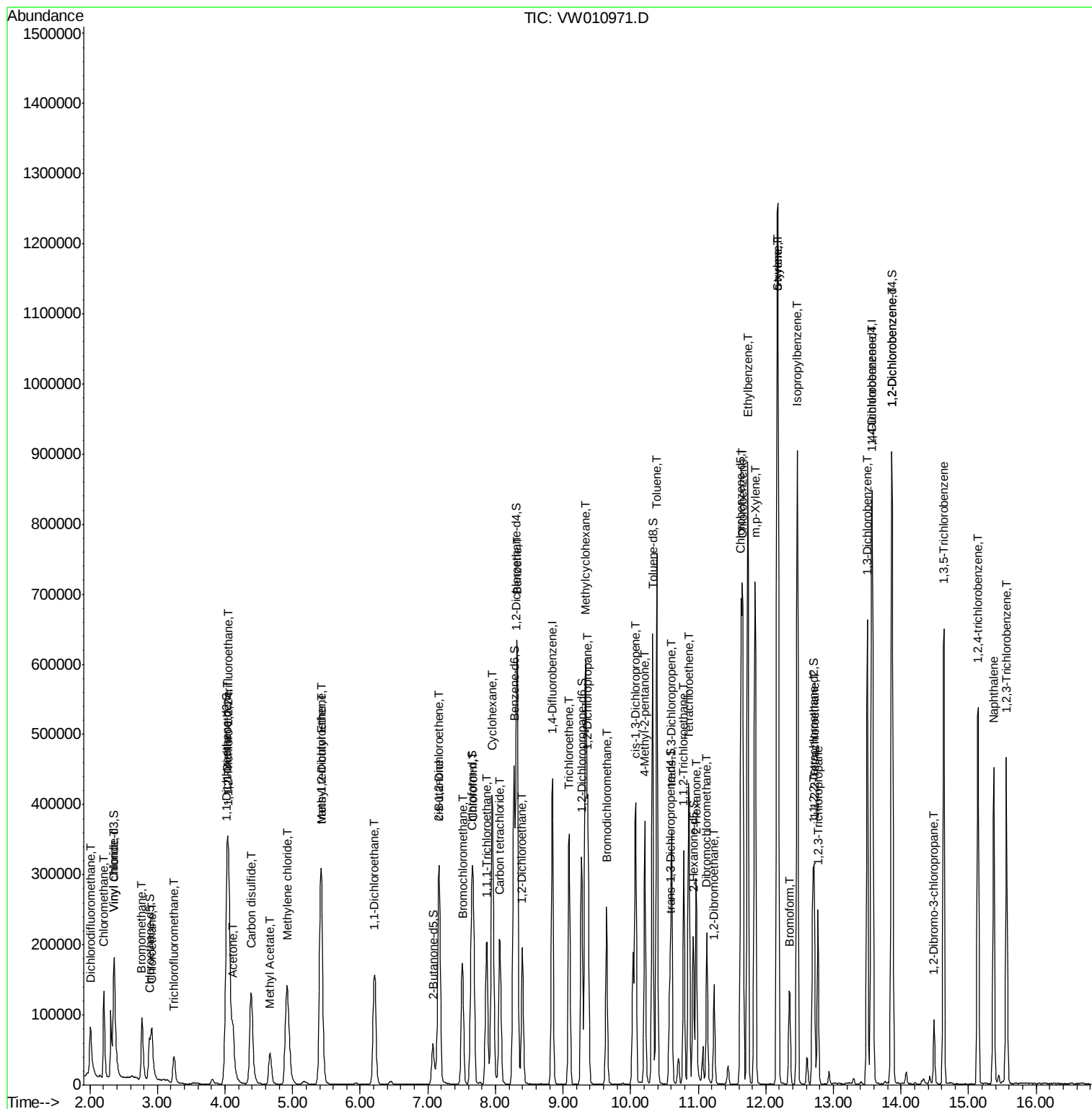
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	54307	24.842	ug/L	94
25) Chloroform	7.67	83	221324	24.723	ug/L	100
27) 1,2-Dichloroethane	8.40	62	177390	25.288	ug/L	98
30) Cyclohexane	7.95	56	240368	23.031	ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	159093	23.177	ug/L	99
32) Carbon tetrachloride	8.07	117	150674	23.239	ug/L	99
34) Benzene	8.32	78	498535	24.037	ug/L	100
35) Trichloroethene	9.09	95	124165	23.608	ug/L	99
36) Methylcyclohexane	9.34	83	225806	23.390	ug/L	99
40) 1,2-Dichloropropane	9.37	63	140439	24.602	ug/L	99
41) Bromodichloromethane	9.64	83	163195	24.361	ug/L	97
42) cis-1,3-Dichloropropene	10.07	75	211217	24.053	ug/L	98
43) 4-Methyl-2-pentanone	10.21	43	267276	50.454	ug/L	99
44) Toluene	10.39	91	526700	24.287	ug/L	99
45) trans-1,3-Dichloropropene	10.60	75	177830	24.498	ug/L	98
46) 1,1,2-Trichloroethane	10.79	97	98258	25.116	ug/L	99
47) Tetrachloroethene	10.86	164	94197	23.615	ug/L	94
49) 2-Hexanone	10.97	43	190958	50.668	ug/L	100
50) Dibromochloromethane	11.13	129	106070	24.623	ug/L	99
51) 1,2-Dibromoethane	11.24	107	94800	25.057	ug/L	99
52) Chlorobenzene	11.66	112	318247	24.386	ug/L	99
53) Ethylbenzene	11.73	91	591804	24.222	ug/L	99
54) m,p-Xylene	11.84	106	214740	24.220	ug/L	99
55) o-xylene	12.16	106	208772	24.539	ug/L	98
56) Styrene	12.18	104	362703	24.722	ug/L	98
57) Isopropylbenzene	12.46	105	561348	24.320	ug/L	100
58) 1,1,2,2-Tetrachloroethane	12.71	83	130534	25.518	ug/L	98
59) 1,2,3-Trichloropropane	12.77	75	100363	25.269	ug/L	99
62) Bromoform	12.35	173	60100	24.067	ug/L	97
63) 1,3-Dichlorobenzene	13.50	146	244282	24.050	ug/L	98
64) 1,4-Dichlorobenzene	13.58	146	249282	24.432	ug/L	98
65) 1,2-Dichlorobenzene	13.87	146	232990	24.801	ug/L	100
66) 1,2-Dibromo-3-chloropropan	14.49	75	21752	22.629	ug/L	94
67) 1,3,5-Trichlorobenzene	14.63	180	191475	24.767	ug/L	99
68) 1,2,4-trichlorobenzene	15.14	180	163293	24.922	ug/L	99
69) Naphthalene	15.37	128	354755	25.372	ug/L	99
70) 1,2,3-Trichlorobenzene	15.56	180	148865	25.012	ug/L	100

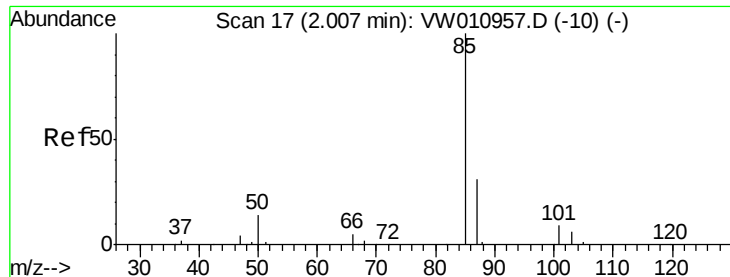
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 23.238 ug/L

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW010971.D

Acq: 25 Jun 2019 16:37

Instrument :

MSVOA_W

ClientSampleId :

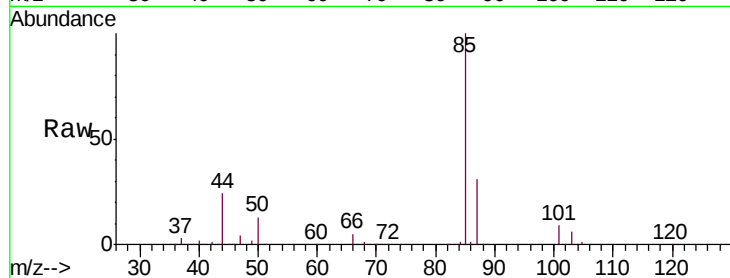
VSTD02530

Tgt Ion: 85 Resp: 110862

Ion Ratio Lower Upper

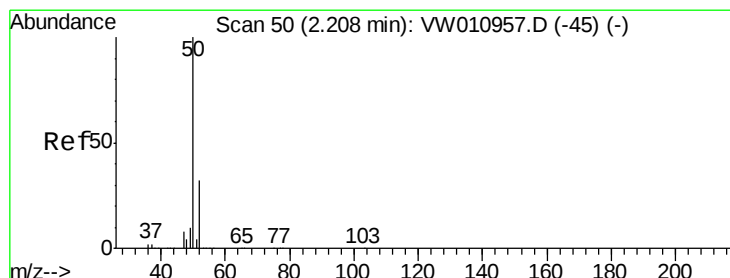
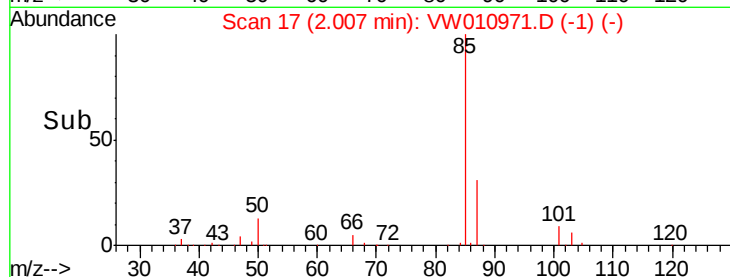
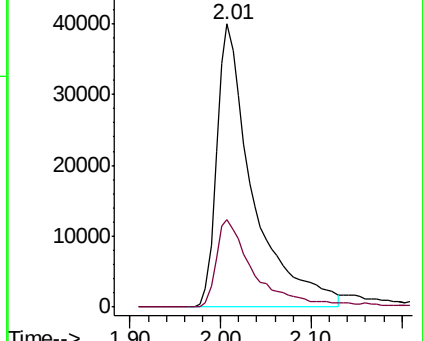
85 100

87 30.6 21.8 40.6



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 22.314 ug/L

RT: 2.21 min Scan# 50

Delta R.T. 0.00 min

Lab File: VW010971.D

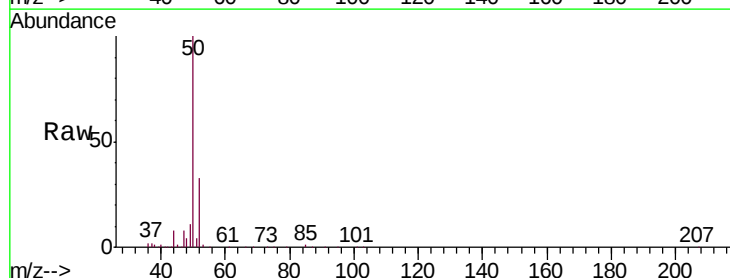
Acq: 25 Jun 2019 16:37

Tgt Ion: 50 Resp: 113181

Ion Ratio Lower Upper

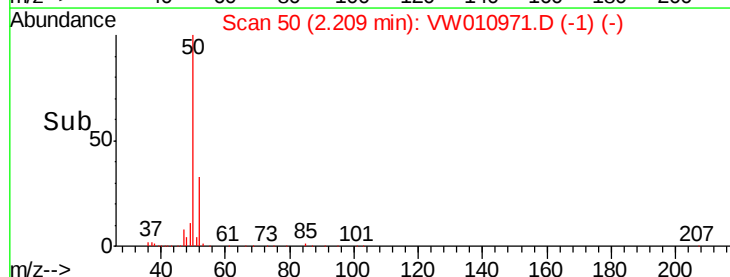
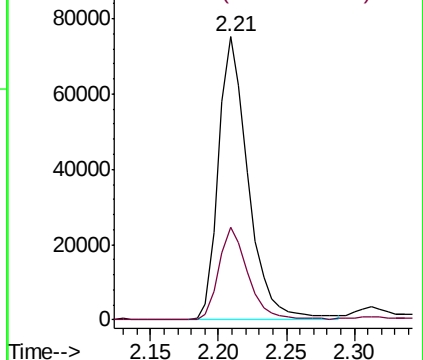
50 100

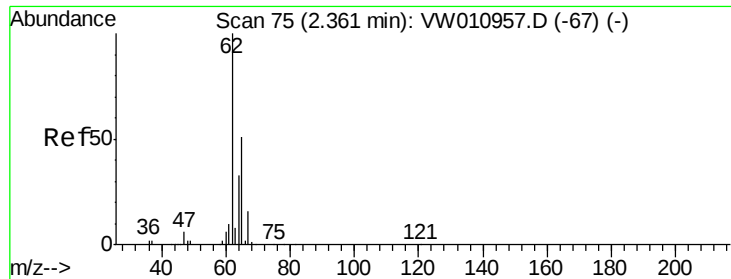
52 32.6 22.3 41.5



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 24.524 ug/L

RT: 2.36 min Scan# 75

Delta R.T. 0.00 min

Lab File: VW010971.D

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Instrument :

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ClientSampleId :

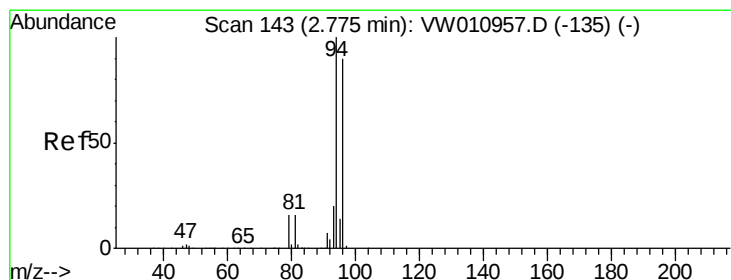
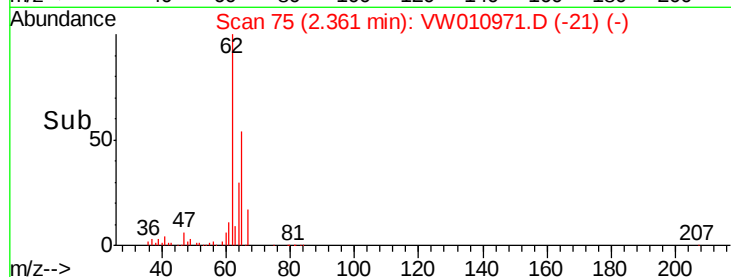
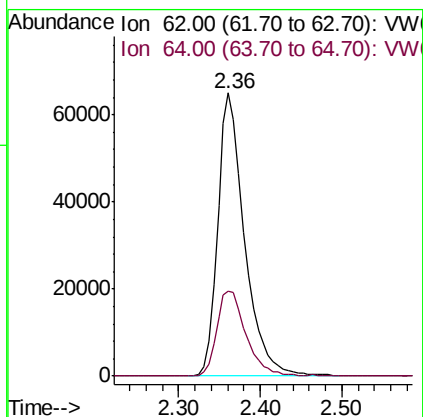
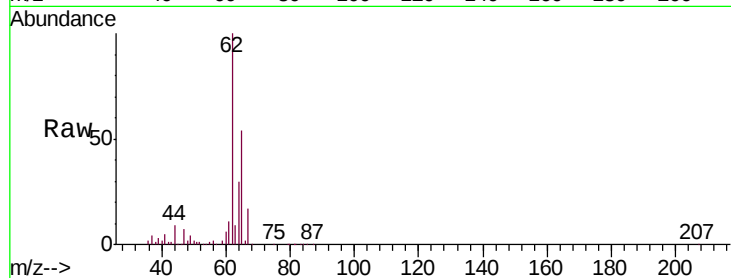
VSTD02530

Tgt Ion: 62 Resp: 148728

Ion Ratio Lower Upper

62 100

64 30.1 22.9 42.5



#6

Bromomethane

Concen: 23.767 ug/L

RT: 2.77 min Scan# 142

Delta R.T. -0.01 min

Lab File: VW010971.D

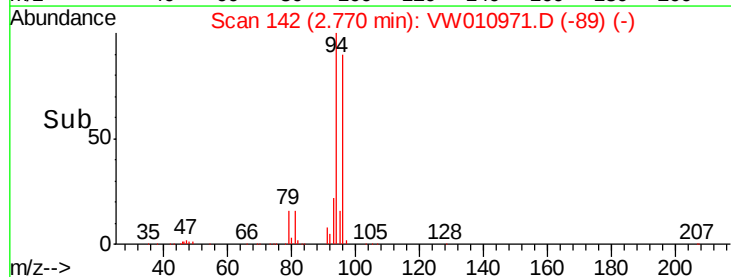
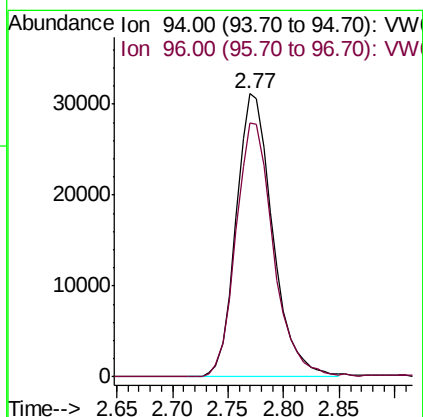
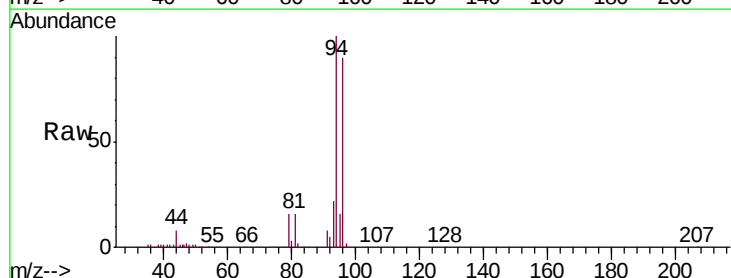
Acq: 25 Jun 2019 16:37

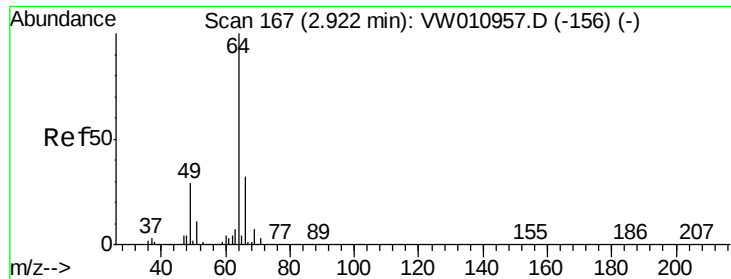
Tgt Ion: 94 Resp: 71145

Ion Ratio Lower Upper

94 100

96 91.6 9.2 175.8





#8

Chloroethane

Concen: 24.346 ug/L

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW010971.D

Acq: 25 Jun 2019 16:37

Instrument :

MSVOA_W

ClientSampleId :

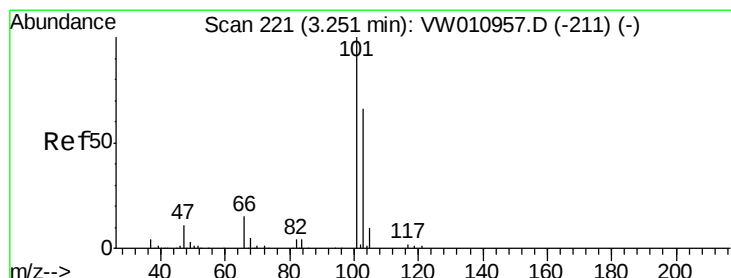
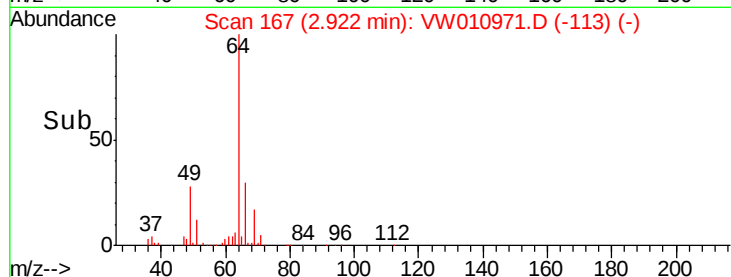
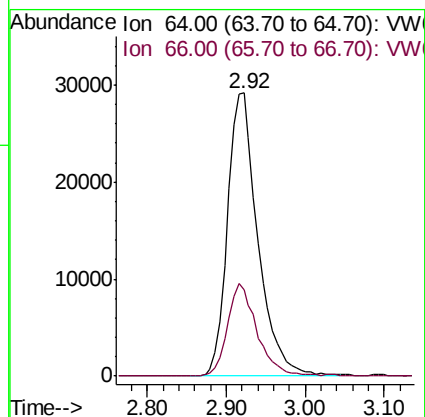
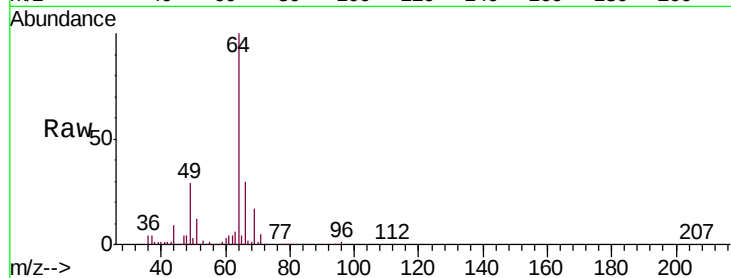
VSTD02530

Tgt Ion: 64 Resp: 78195

Ion Ratio Lower Upper

64 100

66 30.3 21.8 40.4



#9

Trichlorofluoromethane

Concen: 20.022 ug/L

RT: 3.25 min Scan# 220

Delta R.T. -0.01 min

Lab File: VW010971.D

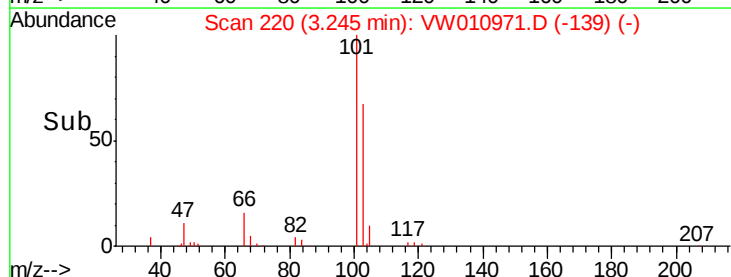
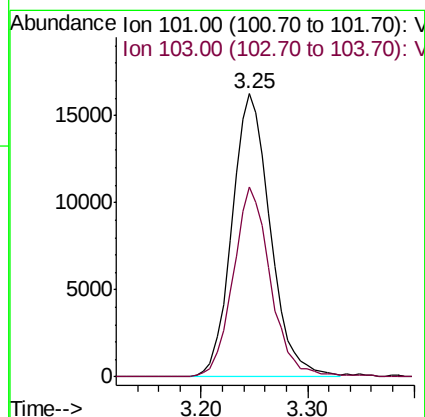
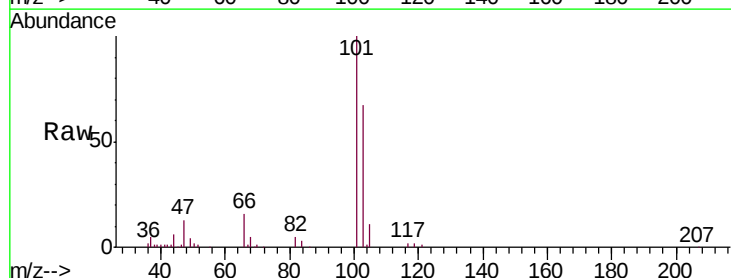
Acq: 25 Jun 2019 16:37

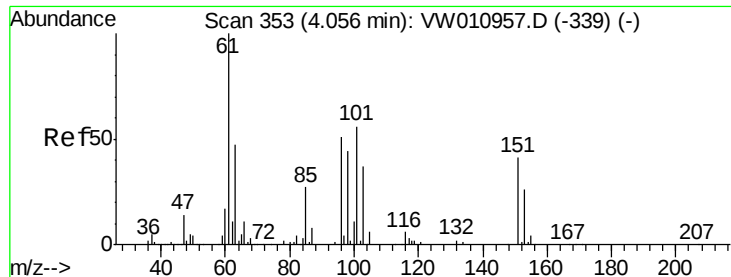
Tgt Ion: 101 Resp: 41006

Ion Ratio Lower Upper

101 100

103 64.6 46.4 86.2





#11

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

Concen: 24.169 ug/L

RT: 4.06 min Scan# 353

Delta R.T. 0.00 min

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Instrument :

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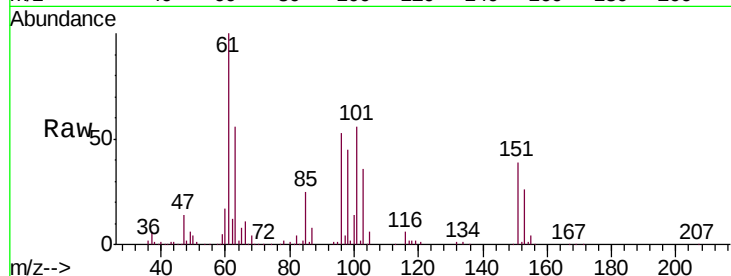
Tgt Ion:101 Resp: 115038

Ion Ratio Lower Upper

101 100

85 44.2 35.8 53.8

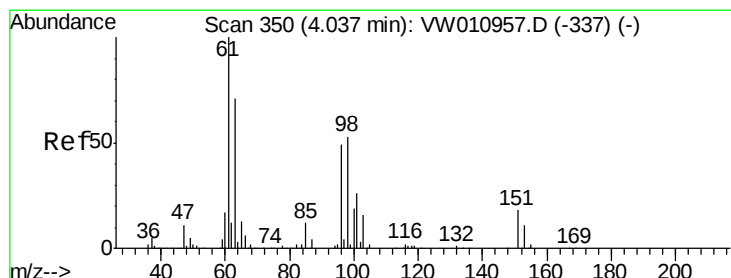
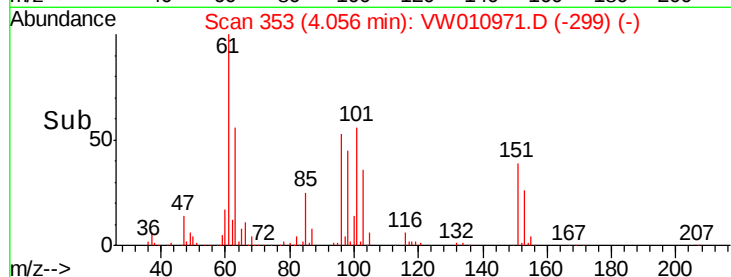
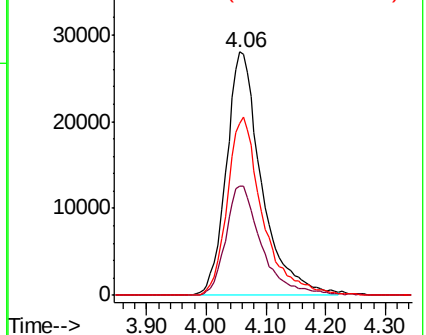
151 73.0 56.9 85.3



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: 23.913 ug/L

RT: 4.04 min Scan# 350

Delta R.T. 0.00 min

Lab File: VW010971.D

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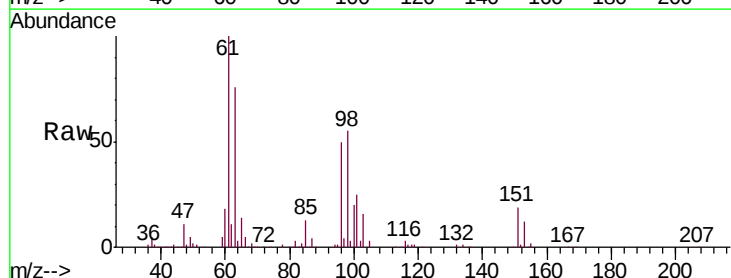
Tgt Ion: 96 Resp: 113604

Ion Ratio Lower Upper

96 100

61 198.9 144.5 268.3

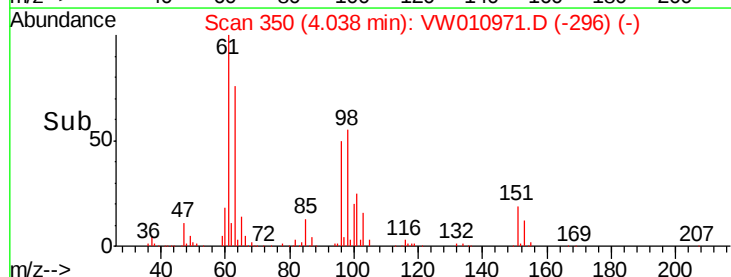
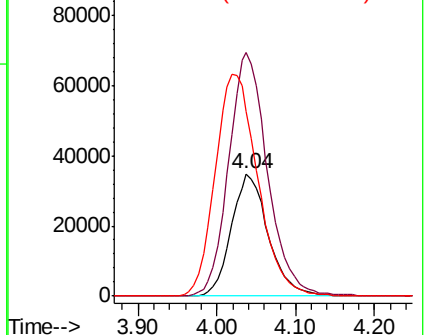
63 150.7 102.3 189.9

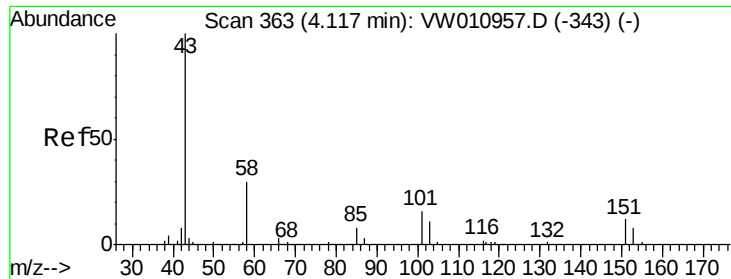


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 46.169 ug/L

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

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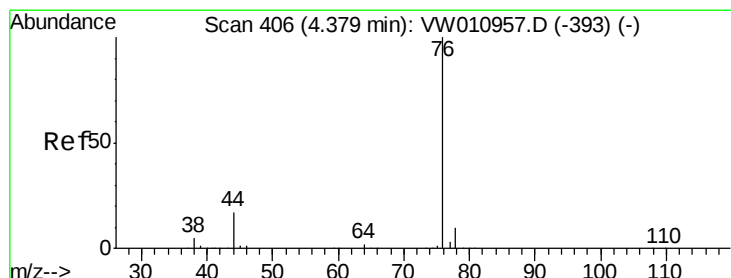
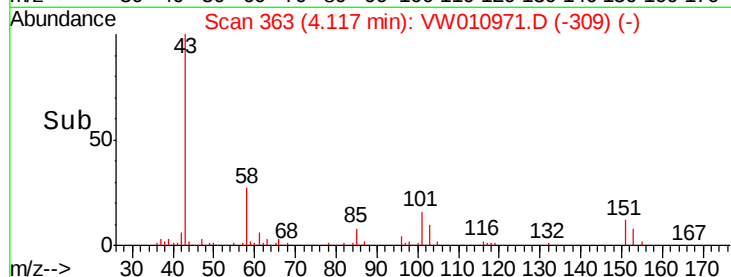
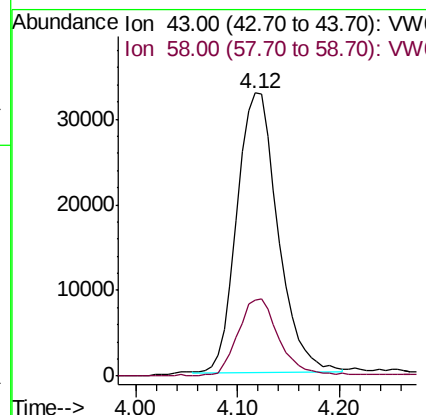
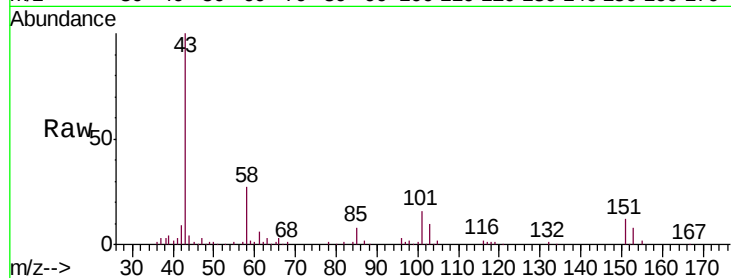
VSTD02530

Tgt Ion: 43 Resp: 91340

Ion Ratio Lower Upper

43 100

58 27.4 0.0 53.2



#14

Carbon disulfide

Concen: 22.787 ug/L

RT: 4.39 min Scan# 407

Delta R.T. 0.01 min

Lab File: VW010971.D

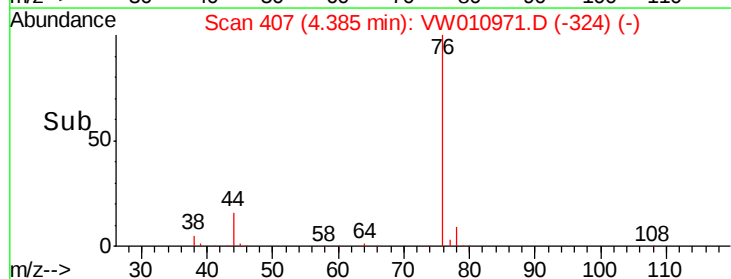
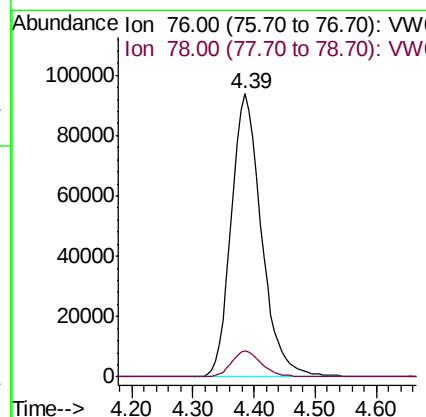
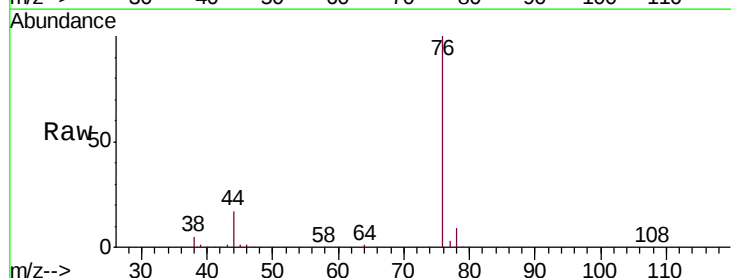
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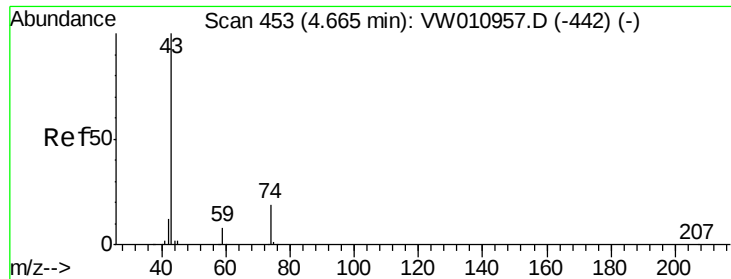
Tgt Ion: 76 Resp: 320514

Ion Ratio Lower Upper

76 100

78 9.4 7.2 10.8

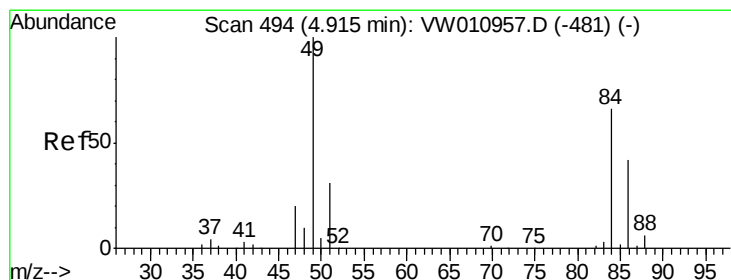
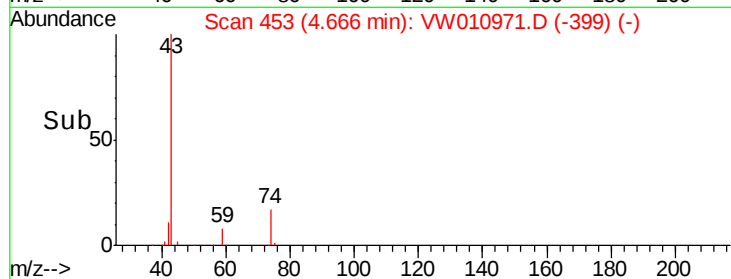
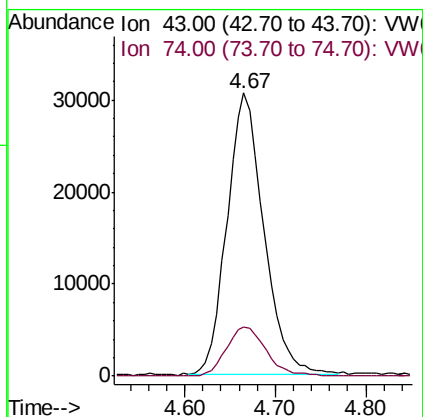
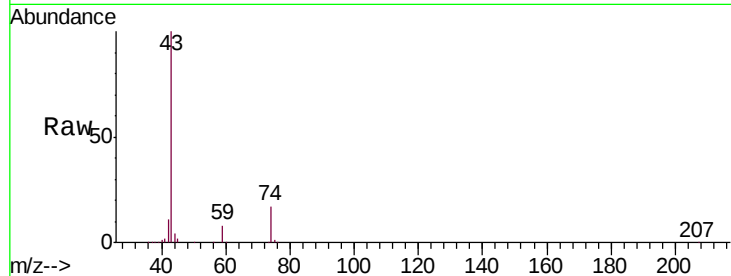




#15
Methyl Acetate
Concen: 25.332 ug/L
RT: 4.67 min Scan# 453
Delta R.T. 0.00 min
Lab File: VW010971.D
Acq: 25 Jun 2019 16:37

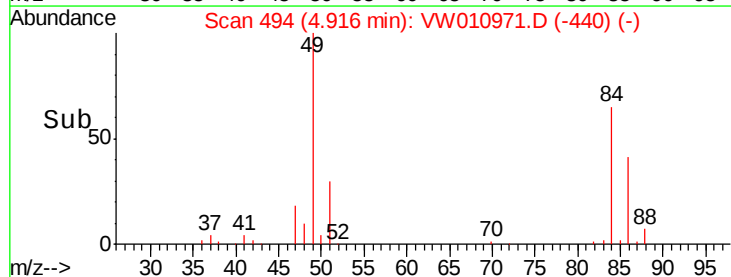
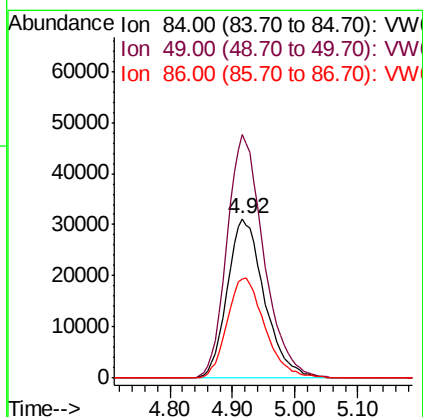
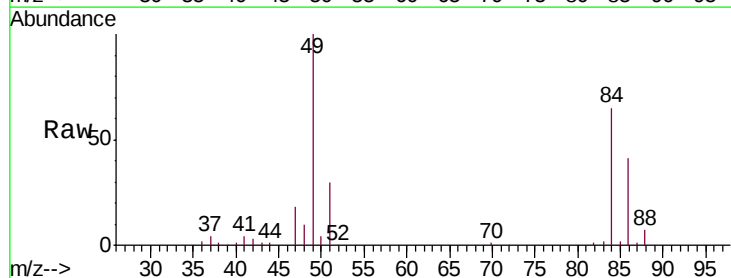
Instrument :
MSVOA_W
ClientSampleId :
VSTD02530

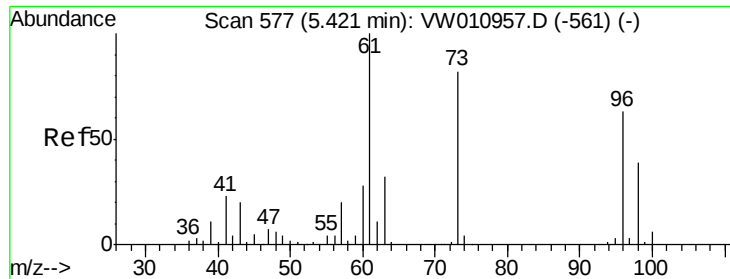
Tgt Ion: 43 Resp: 86753
Ion Ratio Lower Upper
43 100
74 18.5 15.3 22.9



#16
Methylene chloride
Concen: 25.370 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW010971.D
Acq: 25 Jun 2019 16:37

Tgt Ion: 84 Resp: 127523
Ion Ratio Lower Upper
84 100
49 153.0 107.0 198.8
86 62.4 44.4 82.5

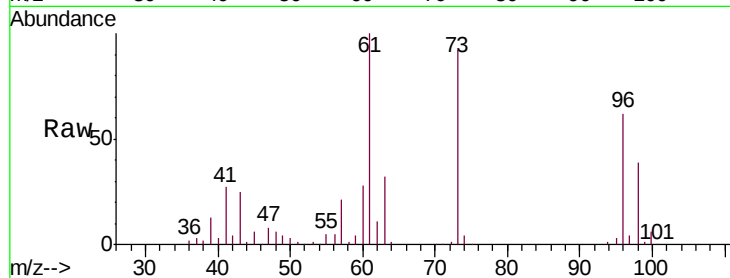




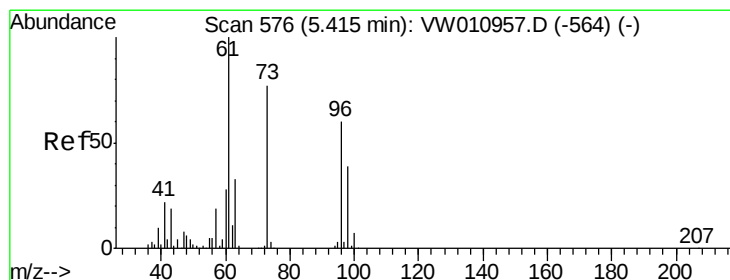
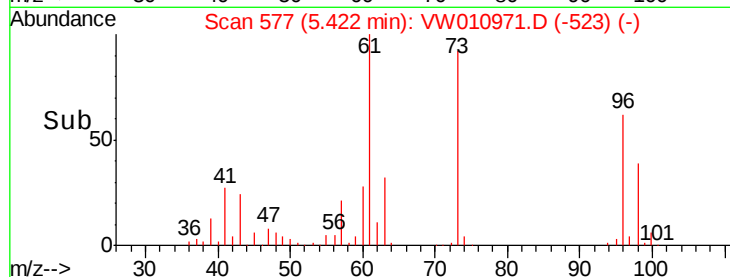
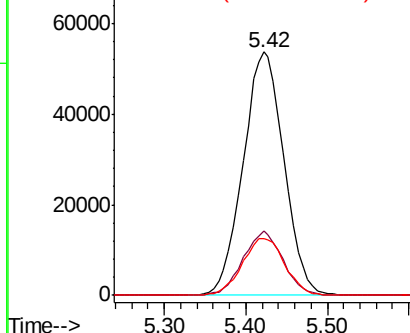
#17
Methyl tert-butyl Ether
Concen: 25.161 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW010971.D
Acq: 25 Jun 2019 16:37

Instrument :
MSVOA_W
ClientSampleId :
VSTD02530

Tgt Ion: 73 Resp: 187151
Ion Ratio Lower Upper
73 100
43 25.4 20.2 30.2
57 24.4 19.4 29.0

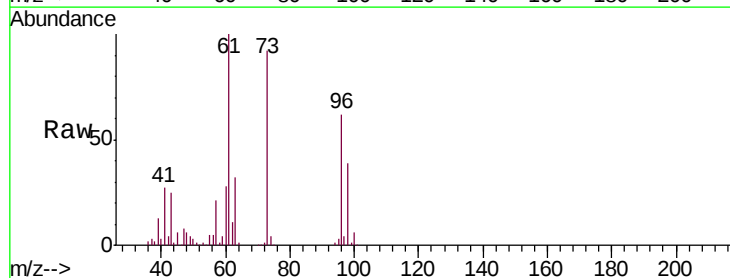


Abundance Ion 73.00 (72.70 to 73.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 57.00 (56.70 to 57.70): VW

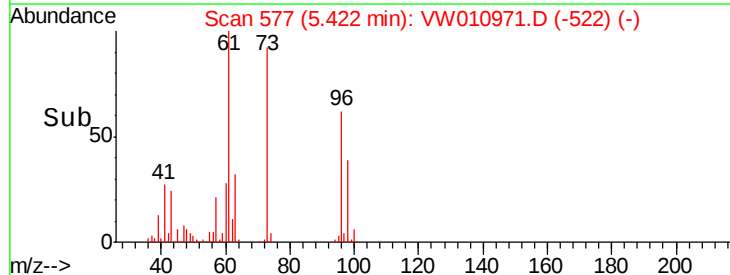
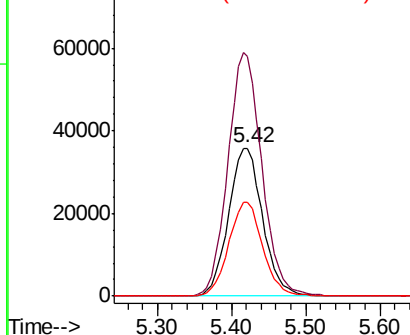


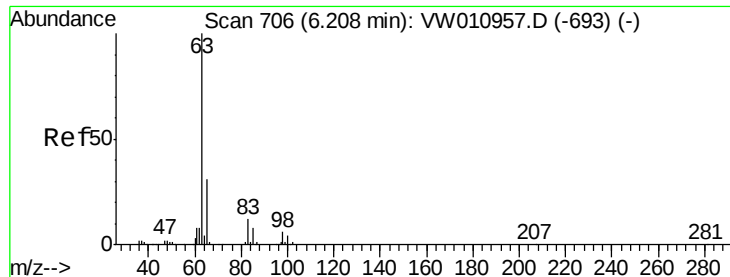
#18
trans-1,2-Dichloroethene
Concen: 23.986 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.01 min
Lab File: VW010971.D
Acq: 25 Jun 2019 16:37

Tgt Ion: 96 Resp: 114582
Ion Ratio Lower Upper
96 100
61 162.2 113.3 210.3
98 63.6 44.1 81.9



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

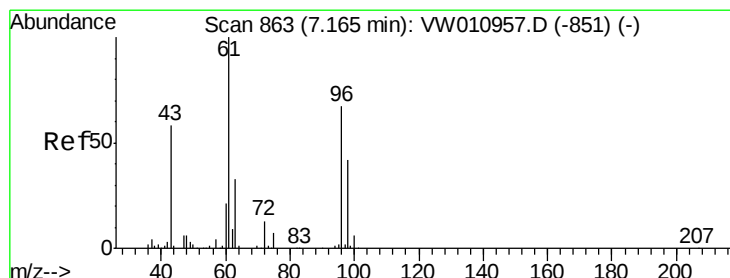
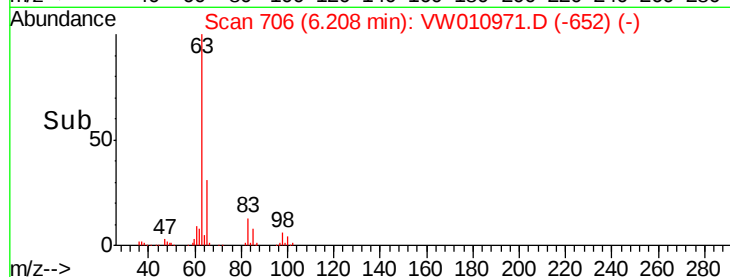
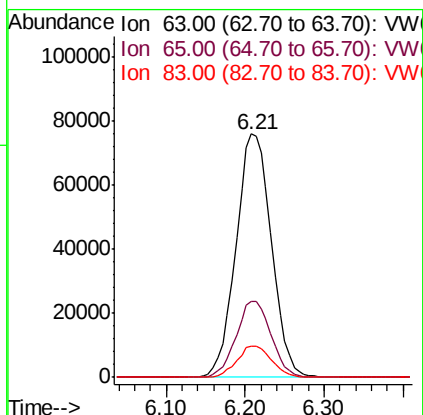
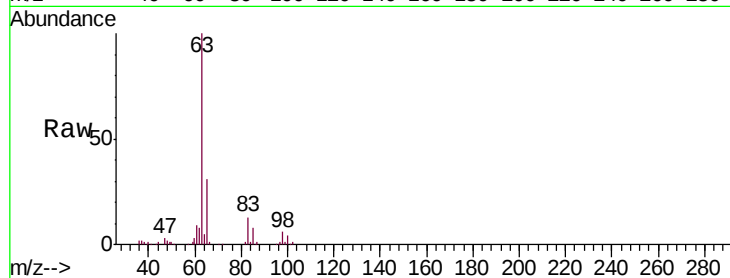




#19
 1,1-Dichloroethane
 Concen: 24.278 ug/L
 RT: 6.21 min Scan# 706
 Delta R.T. 0.00 min
 Lab File: VW010971.D
 Acq: 25 Jun 2019 16:37

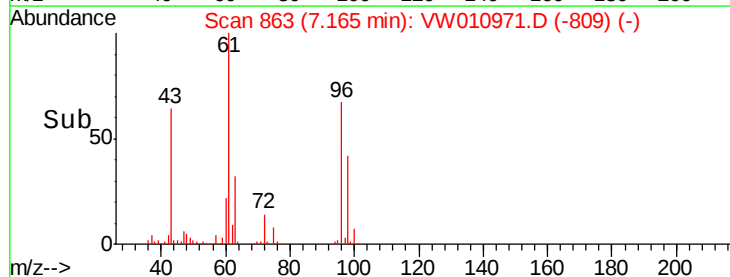
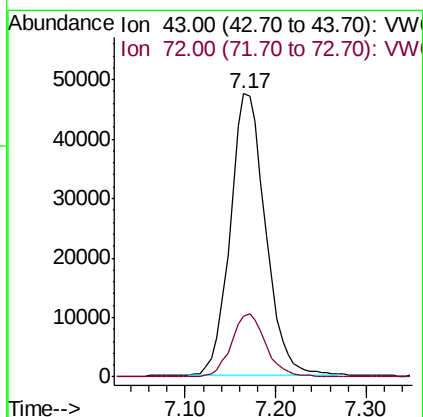
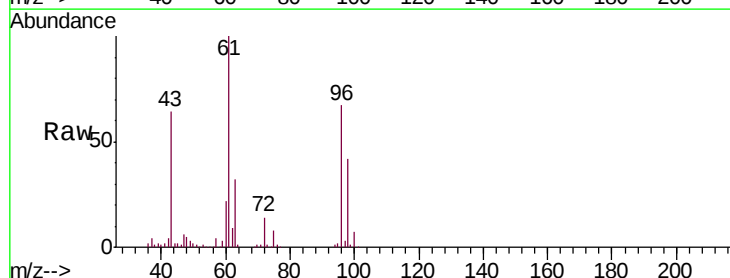
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02530

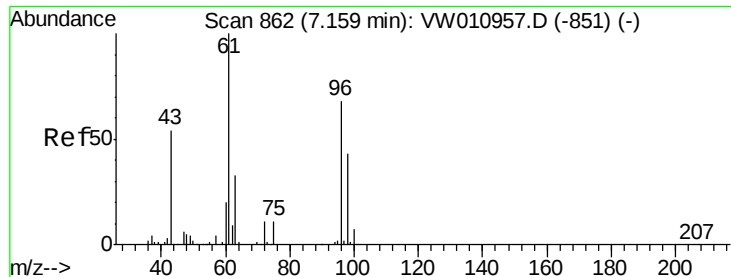
Tgt Ion: 63 Resp: 236884
 Ion Ratio Lower Upper
 63 100
 65 31.2 21.3 39.6
 83 12.6 8.5 15.9



#21
 2-Butanone
 Concen: 49.330 ug/L
 RT: 7.17 min Scan# 863
 Delta R.T. 0.00 min
 Lab File: VW010971.D
 Acq: 25 Jun 2019 16:37

Tgt Ion: 43 Resp: 128347
 Ion Ratio Lower Upper
 43 100
 72 22.1 10.9 32.6



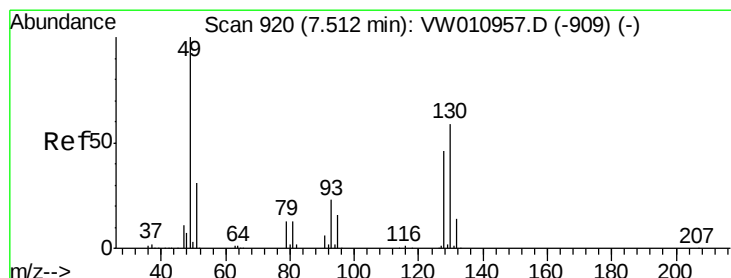
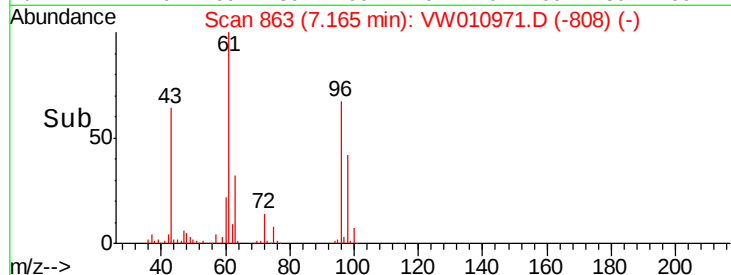
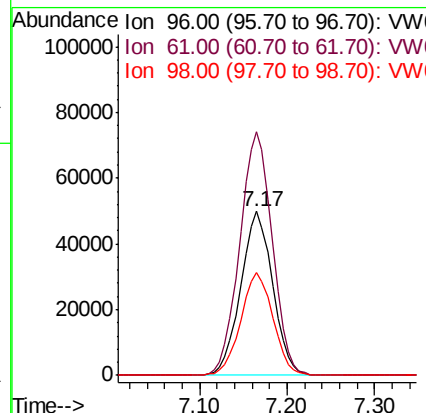
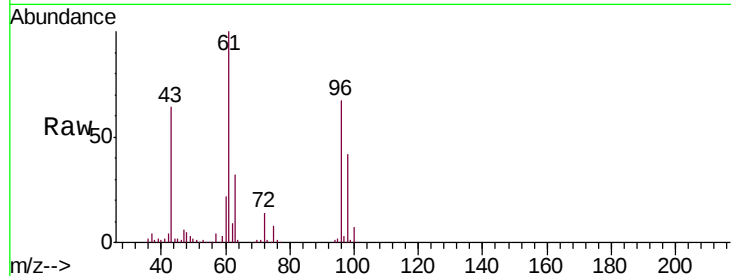


#22

cis-1,2-Dichloroethene
 Concen: 24.707 ug/L
 RT: 7.17 min Scan# 863
 Delta R.T. 0.01 min
 Lab File: VW010971.D
 Acq: 25 Jun 2019 16:37

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02530

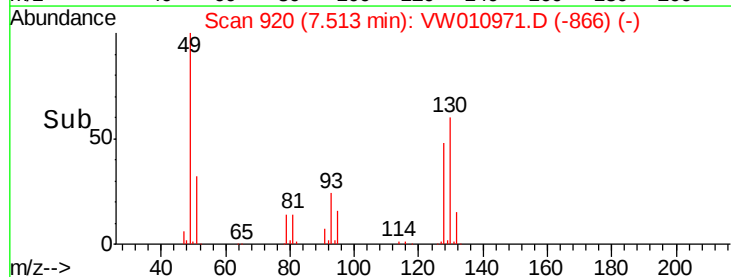
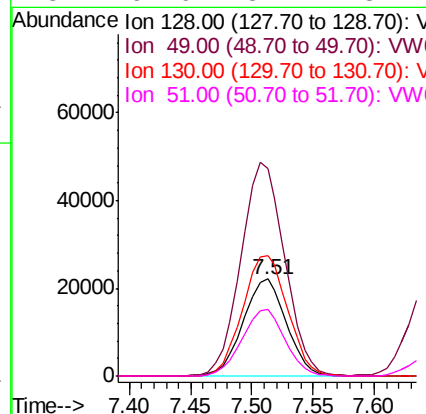
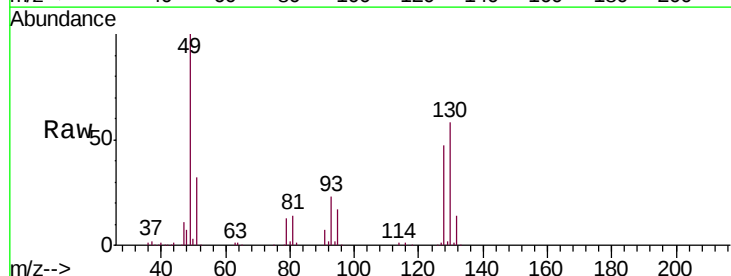
Tgt Ion: 96 Resp: 126993
 Ion Ratio Lower Upper
 96 100
 61 148.3 106.5 197.7
 98 62.4 45.5 84.5

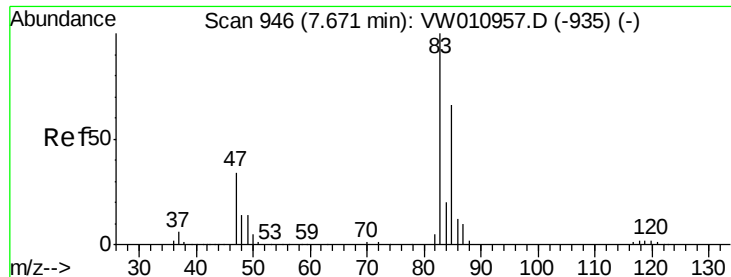


#23

Bromochloromethane
 Concen: 24.842 ug/L
 RT: 7.51 min Scan# 920
 Delta R.T. 0.00 min
 Lab File: VW010971.D
 Acq: 25 Jun 2019 16:37

Tgt Ion: 128 Resp: 54307
 Ion Ratio Lower Upper
 128 100
 49 213.9 157.7 292.9
 130 123.8 91.6 170.0
 51 67.9 54.2 81.2

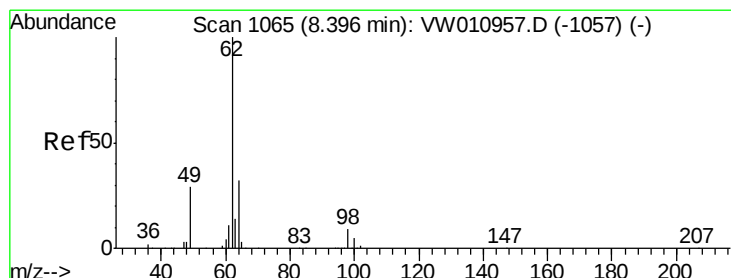
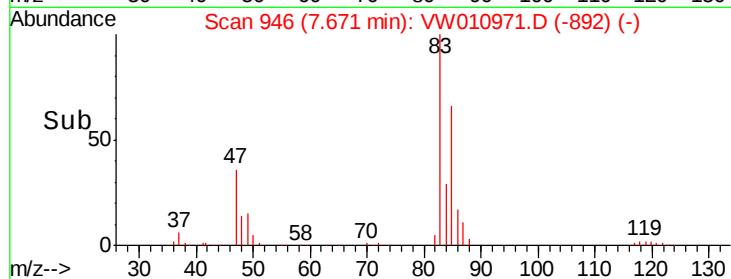
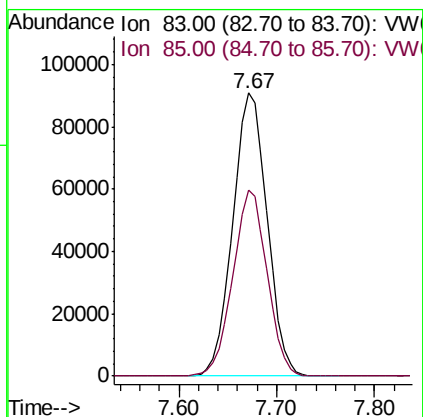
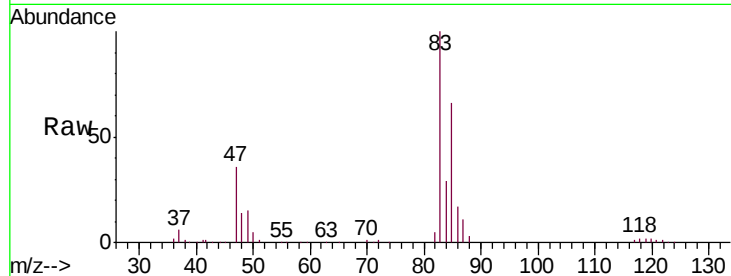




#25
Chloroform
Concen: 24.723 ug/L
RT: 7.67 min Scan# 946
Delta R.T. 0.00 min
Lab File: VW010971.D
Acq: 25 Jun 2019 16:37

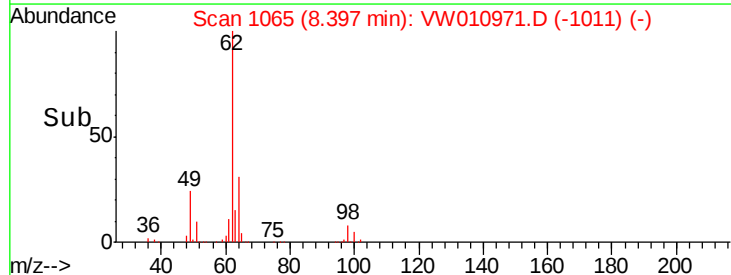
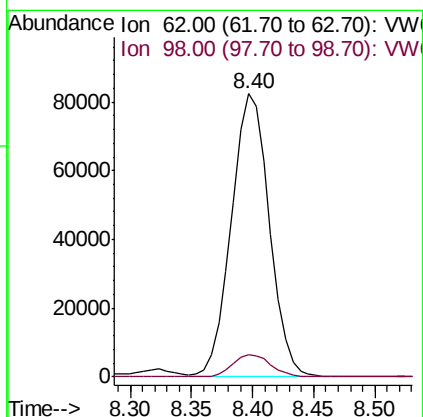
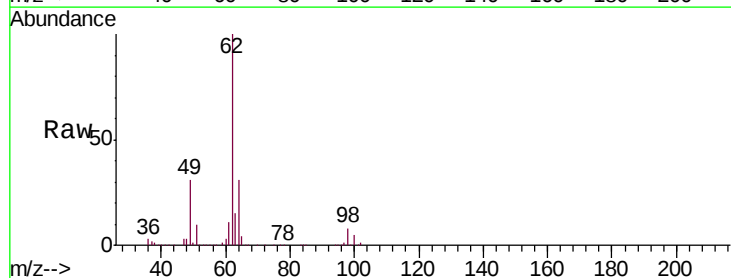
Instrument :
MSVOA_W
ClientSampleId :
VSTD02530

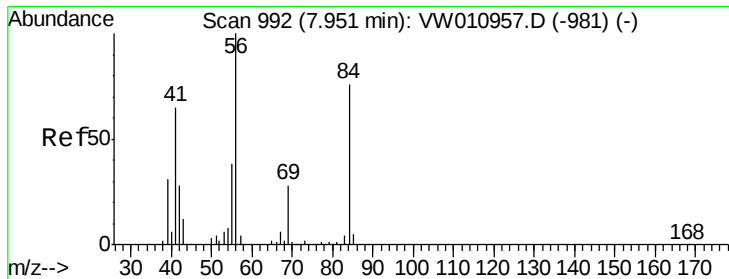
Tgt Ion: 83 Resp: 221324
Ion Ratio Lower Upper
83 100
85 65.6 45.6 84.8



#27
1,2-Dichloroethane
Concen: 25.288 ug/L
RT: 8.40 min Scan# 1065
Delta R.T. 0.00 min
Lab File: VW010971.D
Acq: 25 Jun 2019 16:37

Tgt Ion: 62 Resp: 177390
Ion Ratio Lower Upper
62 100
98 7.8 6.7 10.1

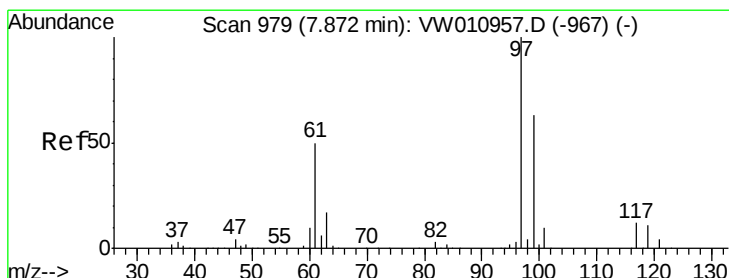
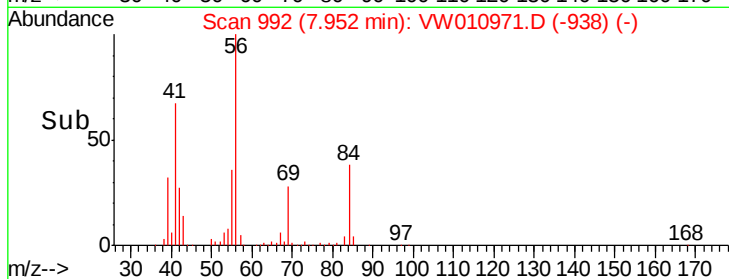
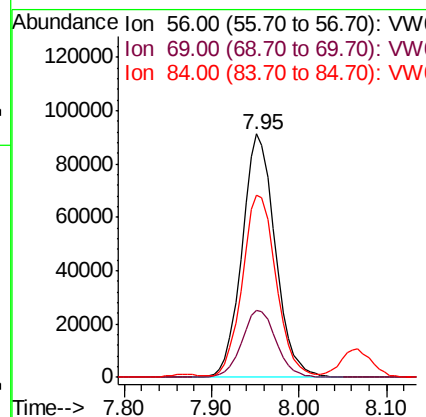
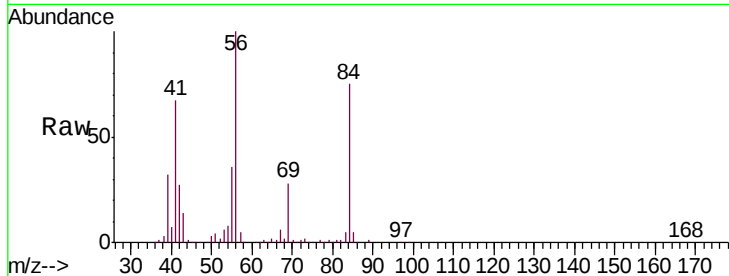




#30
Cyclohexane
Concen: 23.031 ug/L
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW010971.D
Acq: 25 Jun 2019 16:37

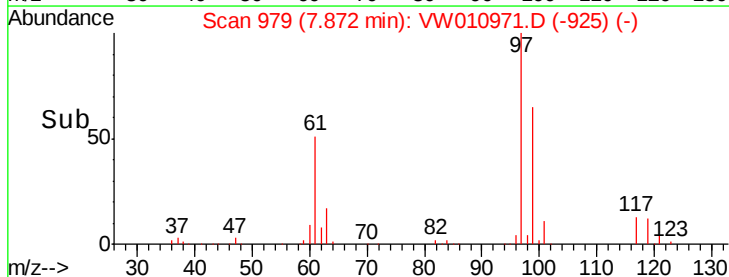
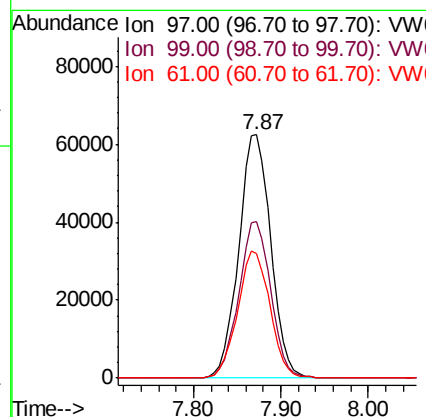
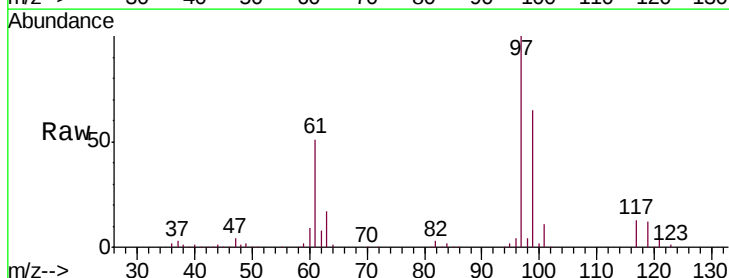
Instrument :
MSVOA_W
ClientSampleId :
VSTD02530

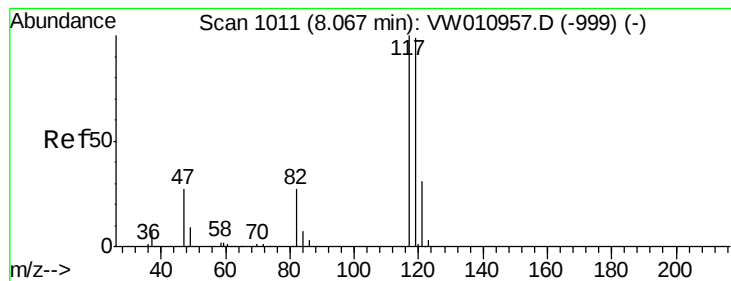
Tgt Ion: 56 Resp: 240368
Ion Ratio Lower Upper
56 100
69 28.5 22.2 33.4
84 76.4 60.3 90.5



#31
1,1,1-Trichloroethane
Concen: 23.177 ug/L
RT: 7.87 min Scan# 979
Delta R.T. 0.00 min
Lab File: VW010971.D
Acq: 25 Jun 2019 16:37

Tgt Ion: 97 Resp: 159093
Ion Ratio Lower Upper
97 100
99 64.2 50.7 76.1
61 52.7 41.2 61.8





#32

Carbon tetrachloride

Concen: 23.239 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VW010971.D

Acq: 25 Jun 2019 16:37

Instrument :

MSVOA_W

ClientSampleId :

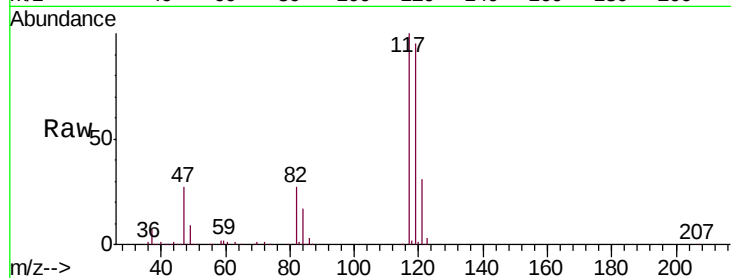
VSTD02530

Tgt Ion:117 Resp: 150674

Ion Ratio Lower Upper

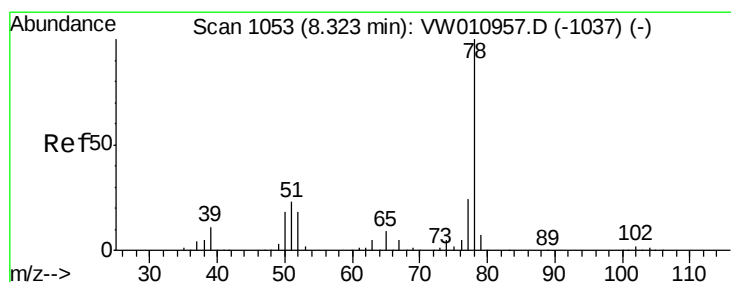
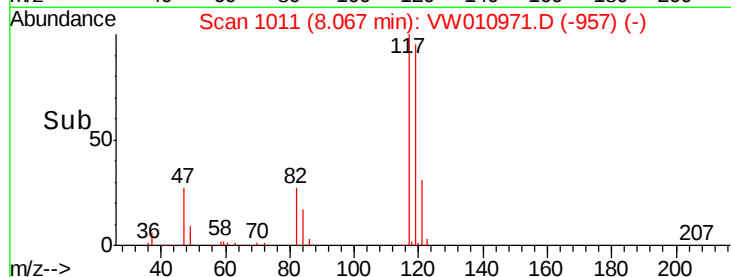
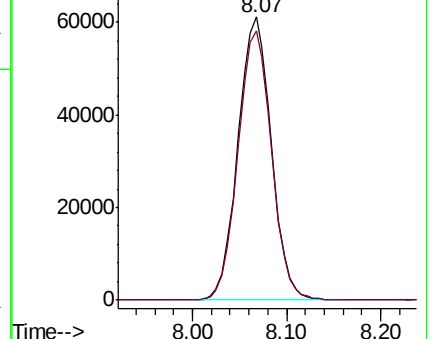
117 100

119 95.7 75.7 113.5



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 24.037 ug/L

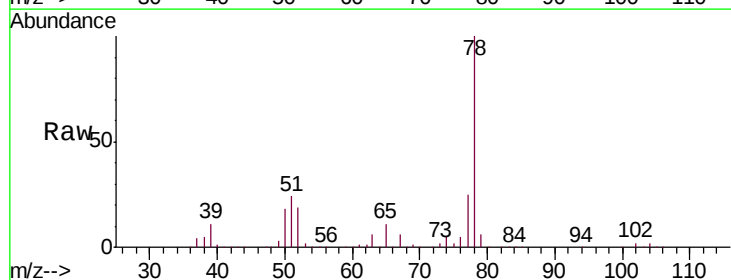
RT: 8.32 min Scan# 1053

Delta R.T. 0.00 min

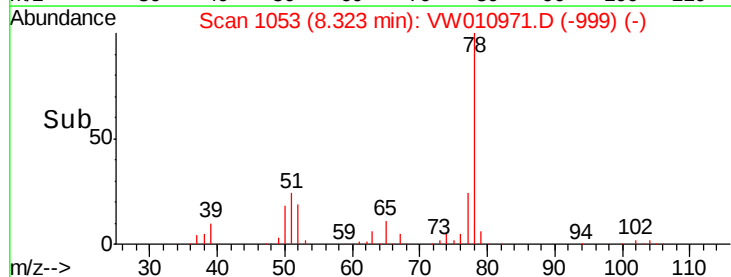
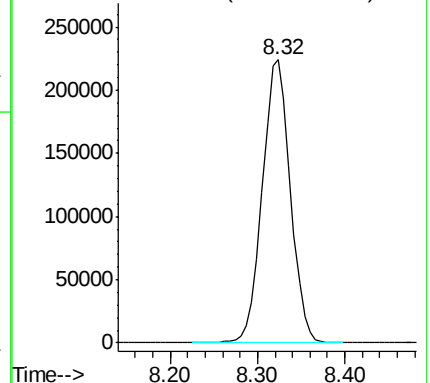
Lab File: VW010971.D

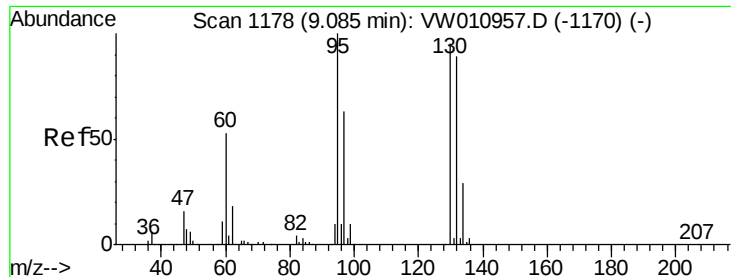
Acq: 25 Jun 2019 16:37

Tgt Ion: 78 Resp: 498535



Abundance Ion 78.00 (77.70 to 78.70): VW

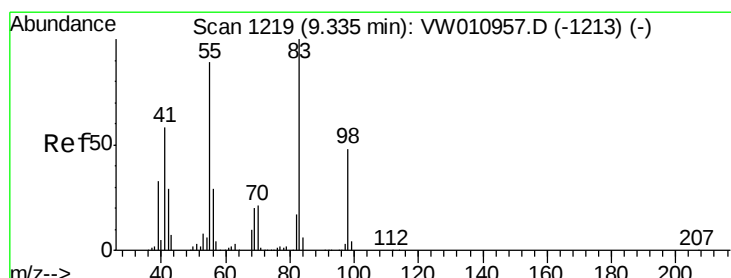
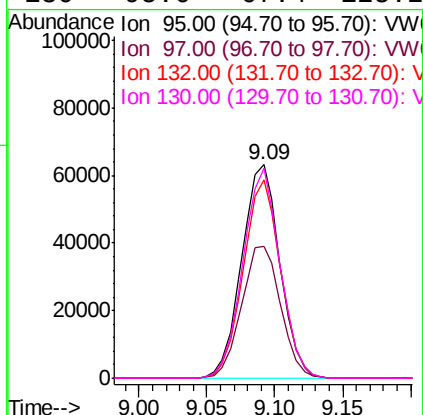
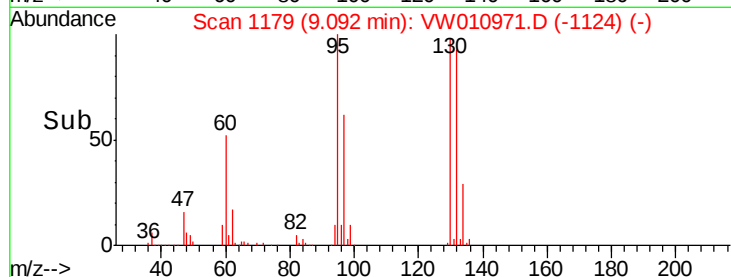
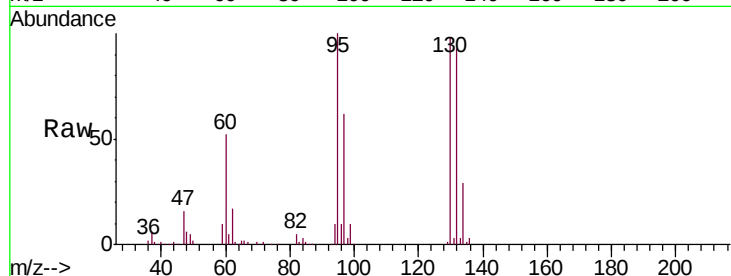




#35
 Trichloroethene
 Concen: 23.608 ug/L
 RT: 9.09 min Scan# 1179
 Delta R.T. 0.01 min
 Lab File: VW010971.D
 Acq: 25 Jun 2019 16:37

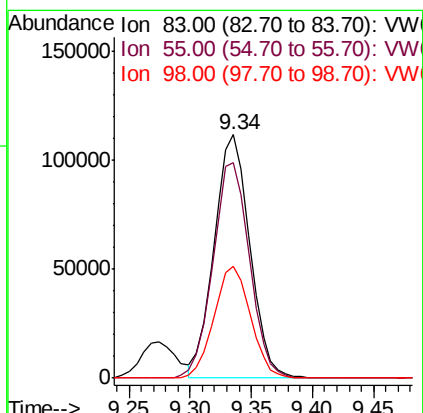
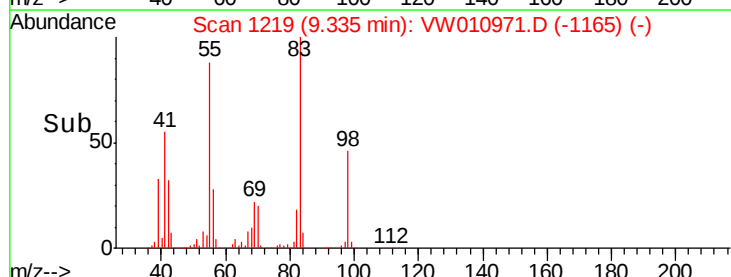
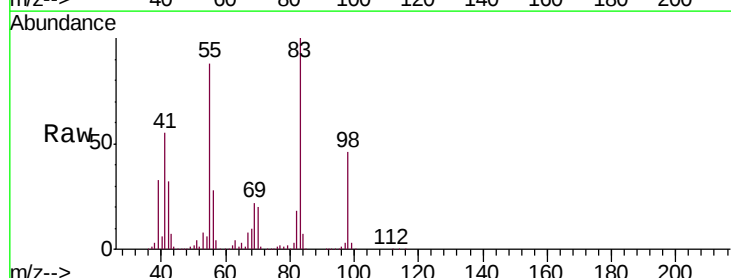
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02530

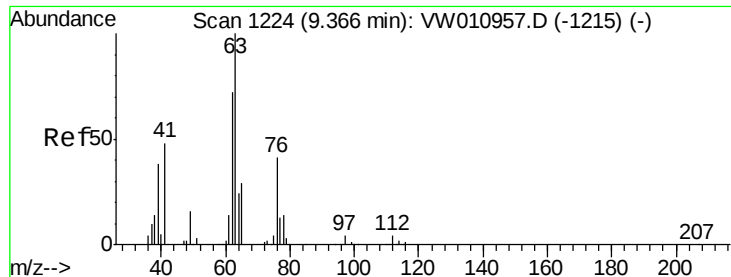
Tgt Ion:	95	Resp:	124165
Ion	Ratio	Lower	Upper
95	100		
97	63.4	44.9	83.3
132	91.3	64.0	119.0
130	95.6	67.4	125.2



#36
 Methylcyclohexane
 Concen: 23.390 ug/L
 RT: 9.34 min Scan# 1219
 Delta R.T. 0.00 min
 Lab File: VW010971.D
 Acq: 25 Jun 2019 16:37

Tgt Ion:	83	Resp:	225806
Ion	Ratio	Lower	Upper
83	100		
55	91.0	72.2	108.2
98	47.4	37.8	56.8





#40

1,2-Dichloropropane

Concen: 24.602 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW010971.D

Acq: 25 Jun 2019 16:37

Instrument :

MSVOA_W

ClientSampleId :

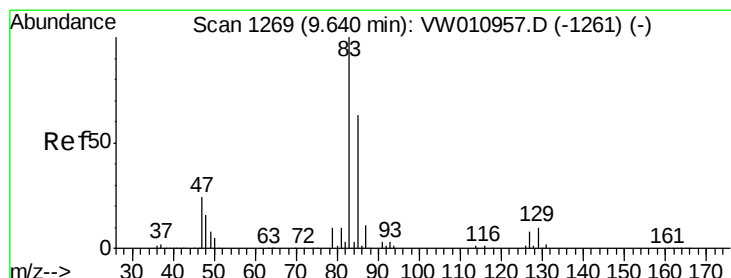
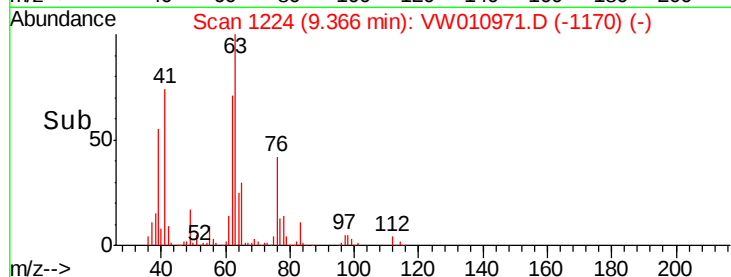
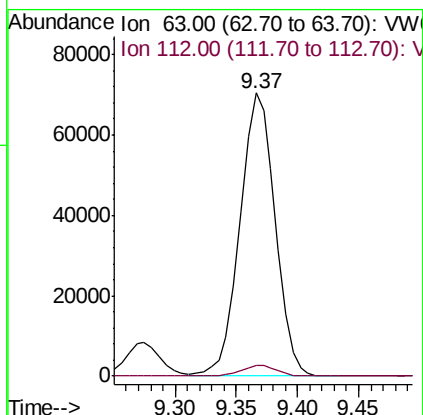
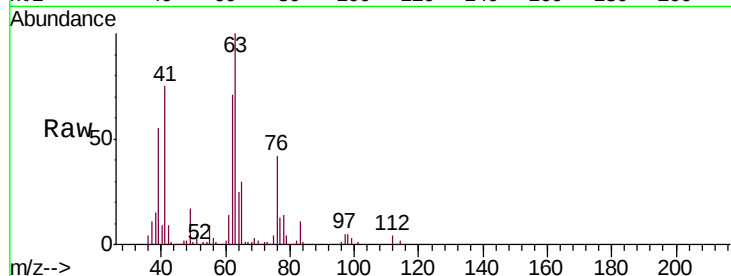
VSTD02530

Tgt Ion: 63 Resp: 140439

Ion Ratio Lower Upper

63 100

112 3.7 3.3 4.9



#41

Bromodichloromethane

Concen: 24.361 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VW010971.D

Acq: 25 Jun 2019 16:37

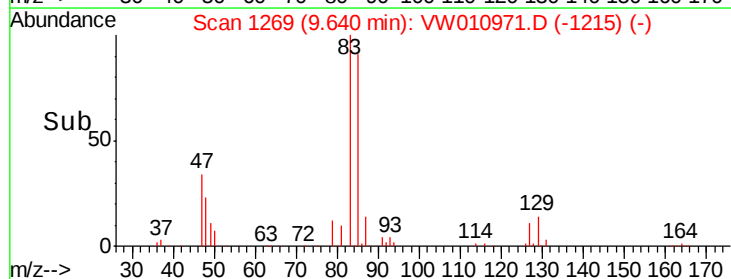
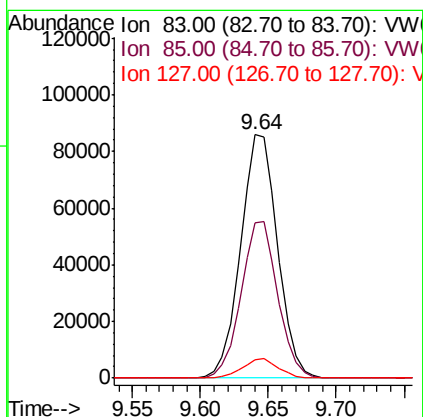
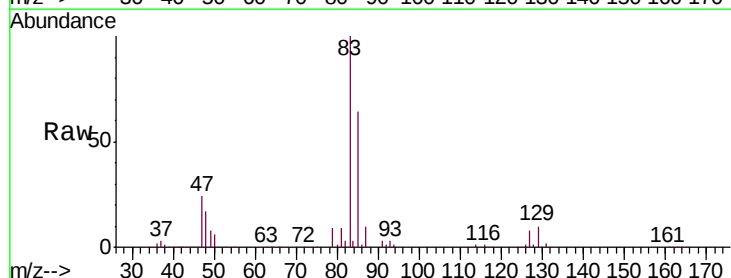
Tgt Ion: 83 Resp: 163195

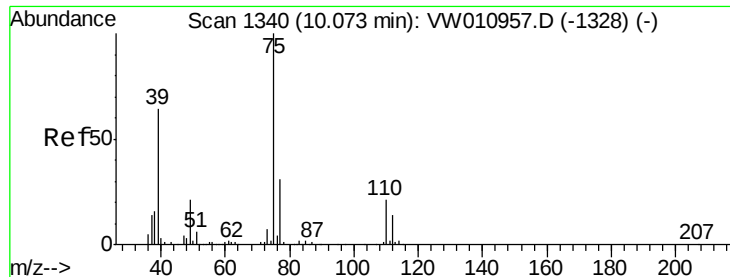
Ion Ratio Lower Upper

83 100

85 64.0 43.1 80.1

127 7.7 6.0 9.0





#42

cis-1,3-Dichloropropene

Concen: 24.053 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW010971.D

Acq: 25 Jun 2019 16:37

Instrument :

MSVOA_W

ClientSampleId :

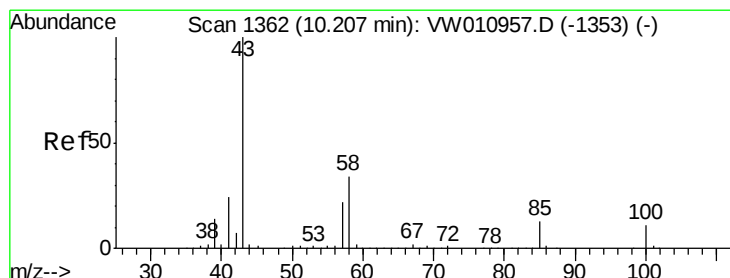
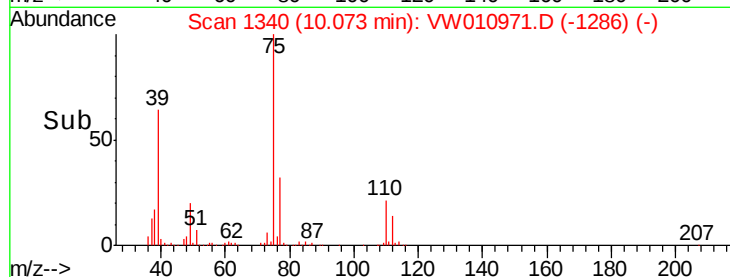
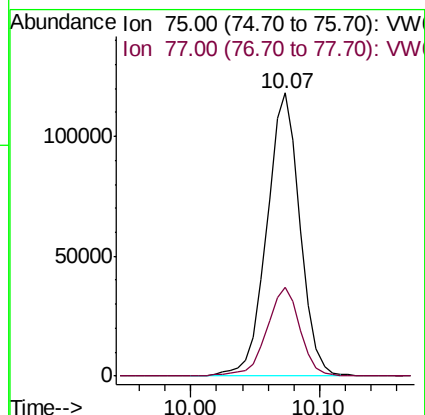
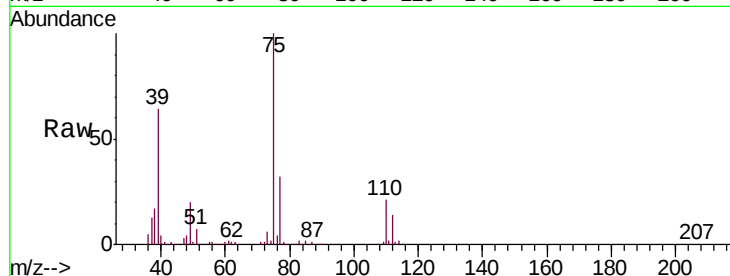
VSTD02530

Tgt Ion: 75 Resp: 211217

Ion Ratio Lower Upper

75 100

77 31.5 21.3 39.6



#43

4-Methyl-2-pentanone

Concen: 50.454 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW010971.D

Acq: 25 Jun 2019 16:37

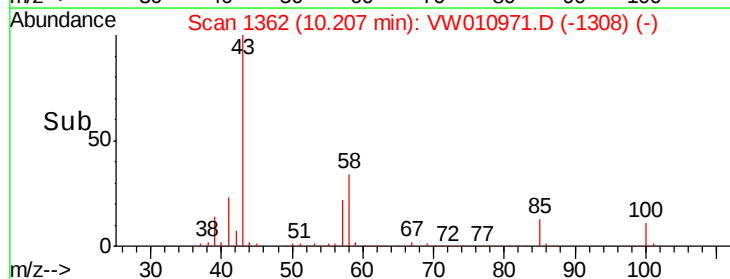
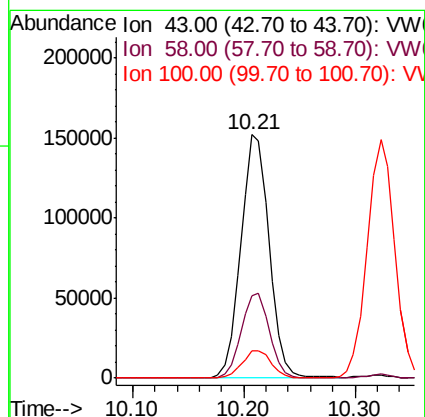
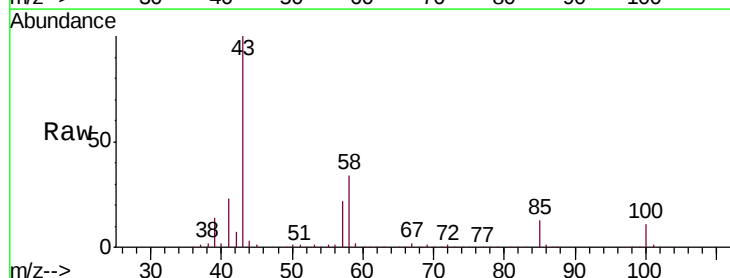
Tgt Ion: 43 Resp: 267276

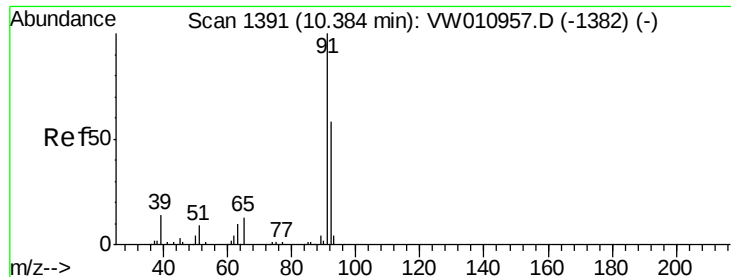
Ion Ratio Lower Upper

43 100

58 34.8 27.5 41.3

100 11.7 9.6 14.4





#44

Toluene

Concen: 24.287 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.01 min

Lab File: VW010971.D

Acq: 25 Jun 2019 16:37

Instrument :

MSVOA_W

ClientSampleId :

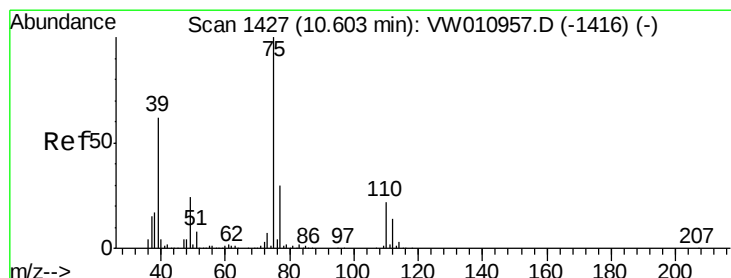
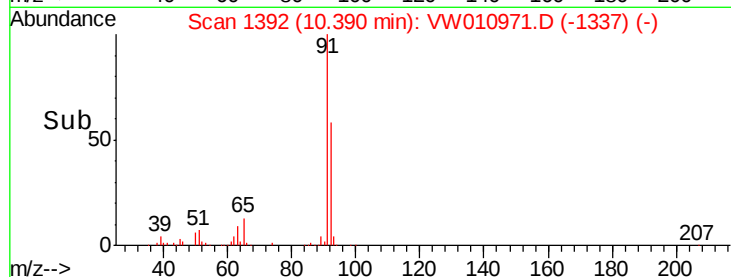
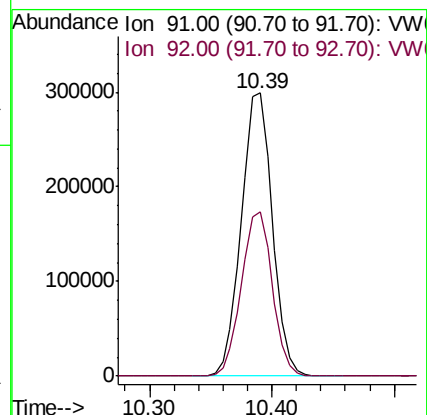
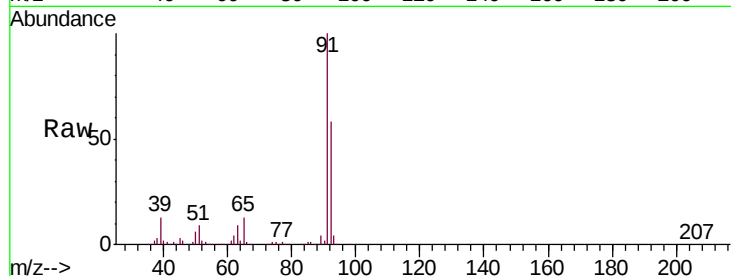
VSTD02530

Tgt Ion: 91 Resp: 526700

Ion Ratio Lower Upper

91 100

92 58.0 41.2 76.4



#45

trans-1,3-Dichloropropene

Concen: 24.498 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW010971.D

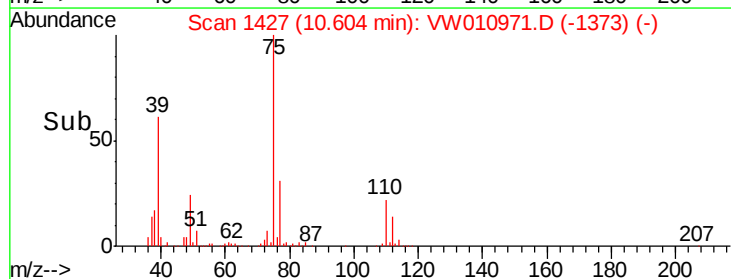
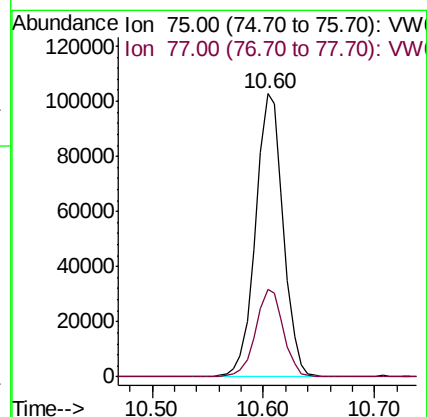
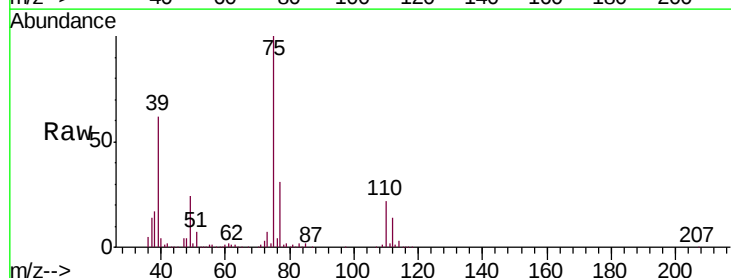
Acq: 25 Jun 2019 16:37

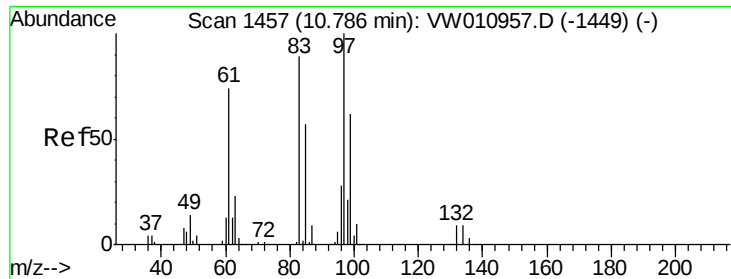
Tgt Ion: 75 Resp: 177830

Ion Ratio Lower Upper

75 100

77 31.1 22.6 42.0





#46

1,1,2-Trichloroethane

Concen: 25.116 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW010971.D

Acq: 25 Jun 2019 16:37

Instrument :

MSVOA_W

ClientSampleId :

VSTD02530

Tgt Ion: 97 Resp: 98258

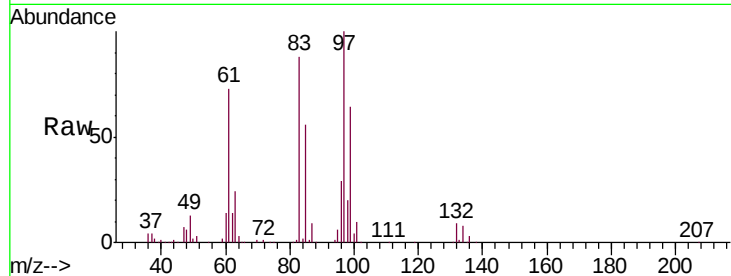
Ion Ratio Lower Upper

97 100

83 87.5 61.8 114.8

85 55.7 38.6 71.6

99 63.9 43.3 80.3



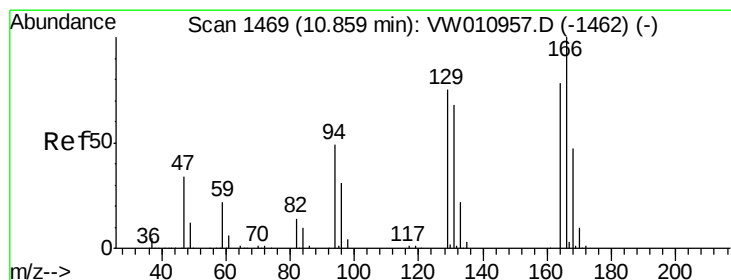
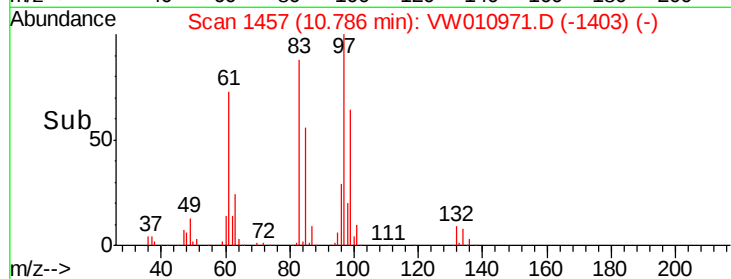
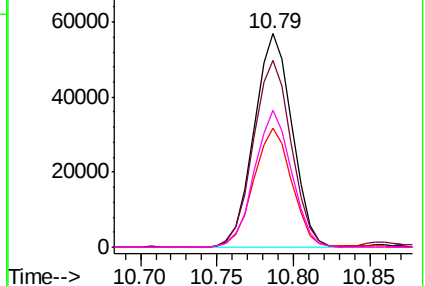
Abundance

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: 23.615 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW010971.D

Acq: 25 Jun 2019 16:37

Tgt Ion: 164 Resp: 94197

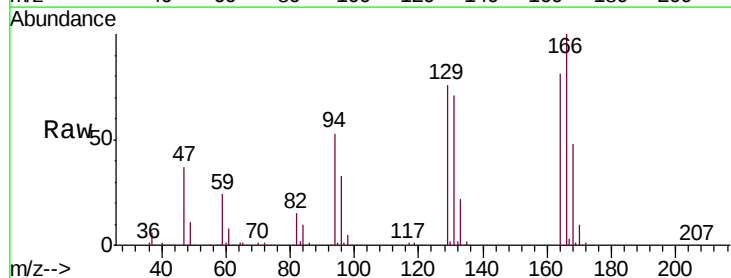
Ion Ratio Lower Upper

164 100

129 93.8 69.6 129.2

131 87.6 66.8 124.0

166 123.8 91.2 169.4



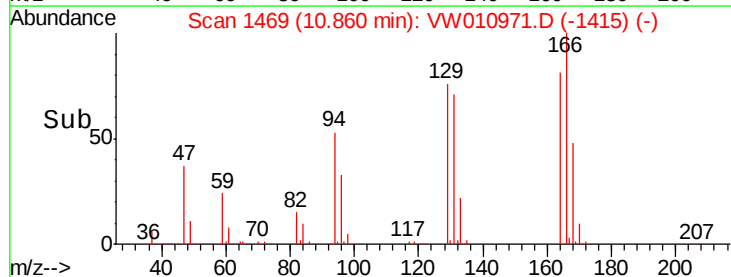
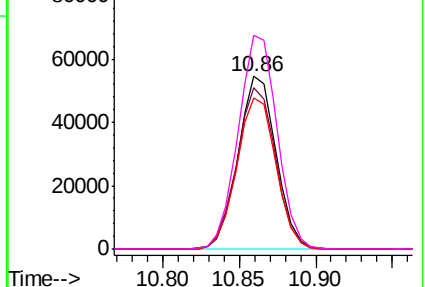
Abundance

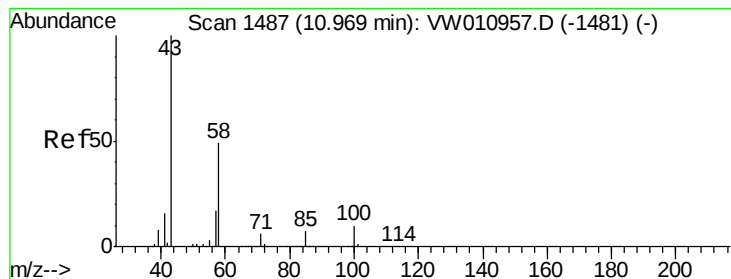
Ion 164.00 (163.70 to 164.70): V

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: 50.668 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW010971.D

Acq: 25 Jun 2019 16:37

Instrument :

MSVOA_W

ClientSampleId :

VSTD02530

Tgt Ion: 43 Resp: 190958

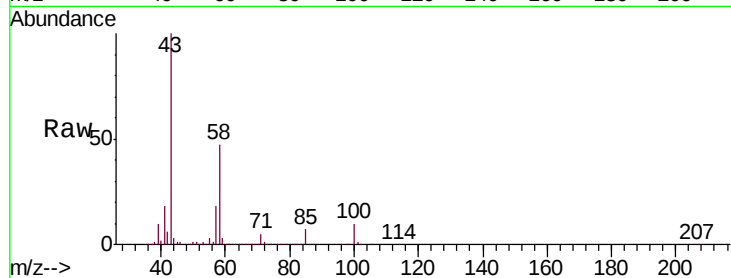
Ion Ratio Lower Upper

43 100

58 48.1 38.3 57.5

57 17.6 13.8 20.8

100 9.4 7.3 10.9

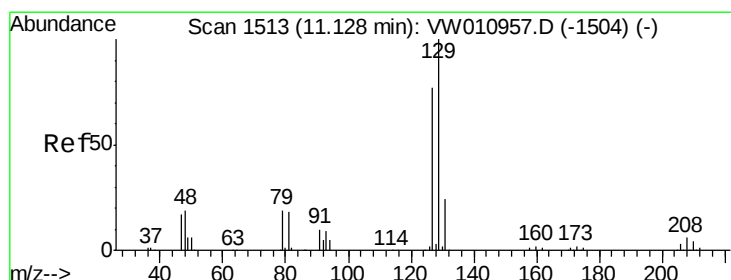
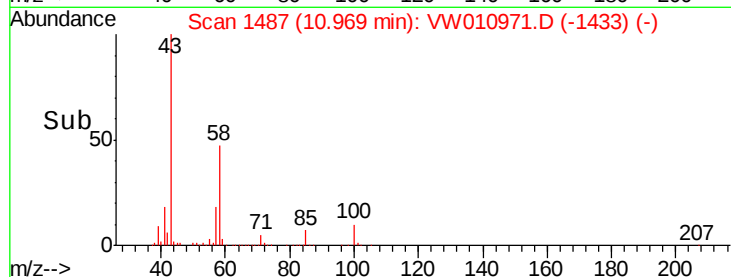
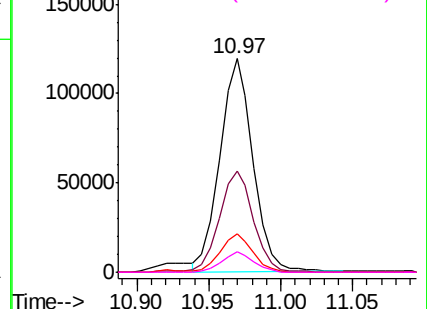


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 57.00 (56.70 to 57.70): VW

Ion 100.00 (99.70 to 100.70): VW



#50

Dibromochloromethane

Concen: 24.623 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW010971.D

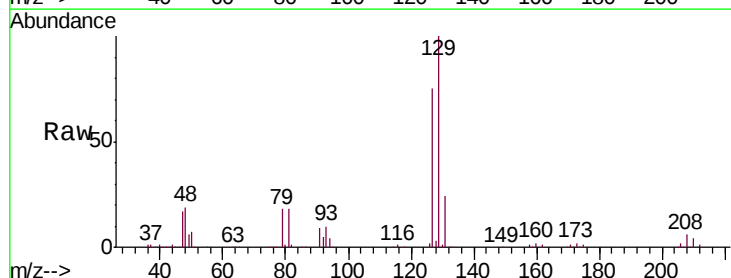
Acq: 25 Jun 2019 16:37

Tgt Ion: 129 Resp: 106070

Ion Ratio Lower Upper

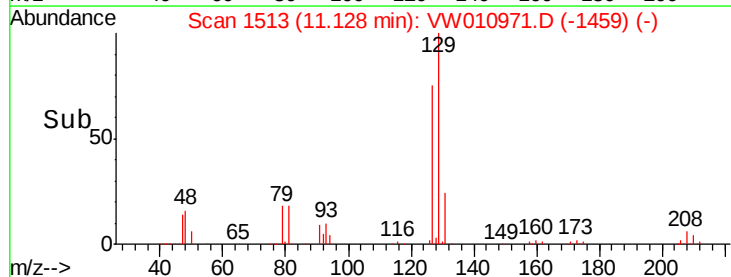
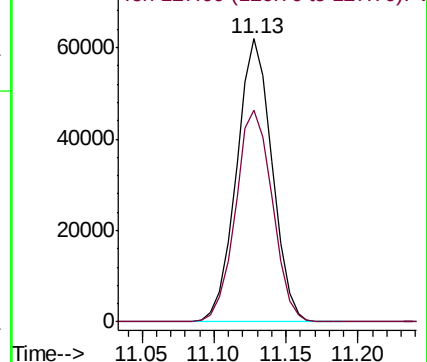
129 100

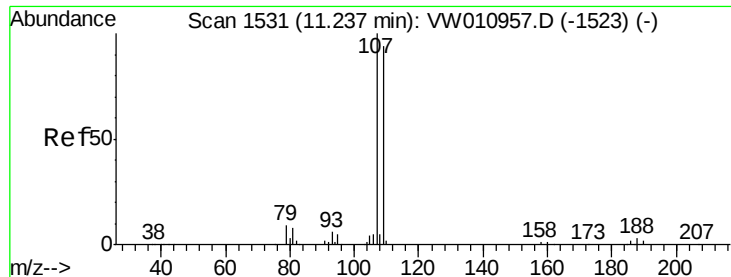
127 74.8 52.8 98.2



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

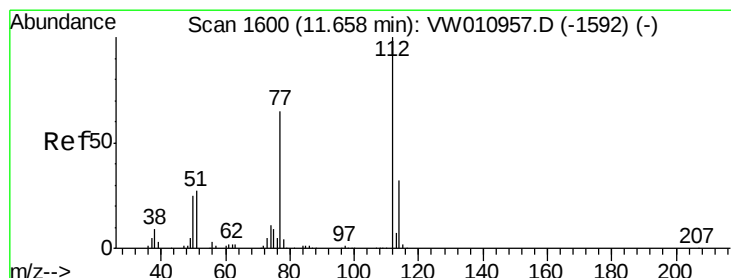
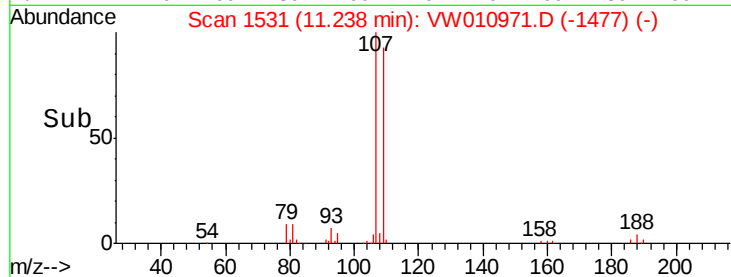
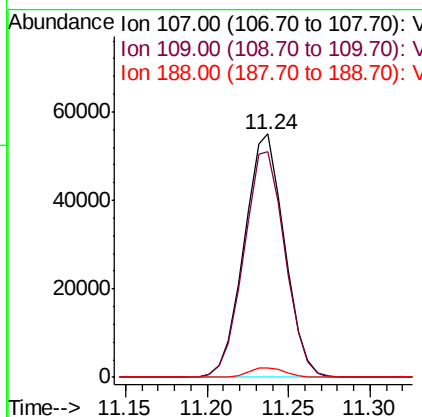
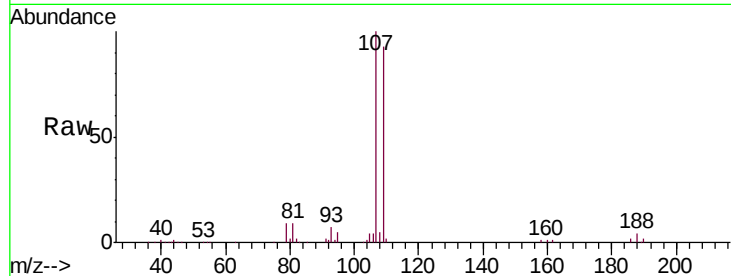




#51
 1,2-Dibromoethane
 Concen: 25.057 ug/L
 RT: 11.24 min Scan# 1531
 Delta R.T. 0.00 min
 Lab File: VW010971.D
 Acq: 25 Jun 2019 16:37

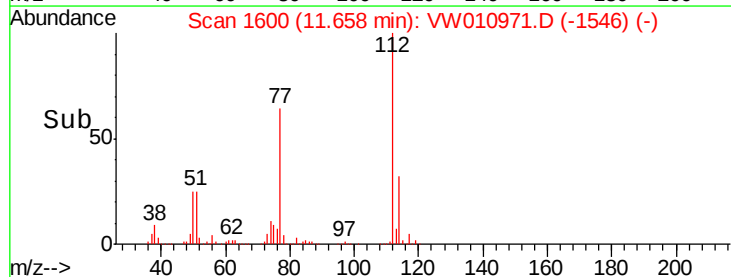
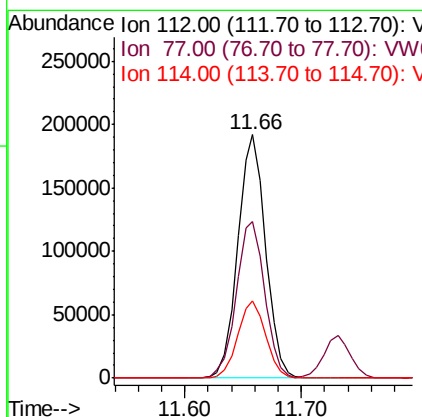
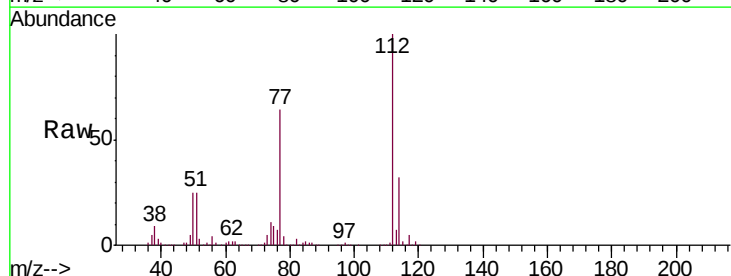
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02530

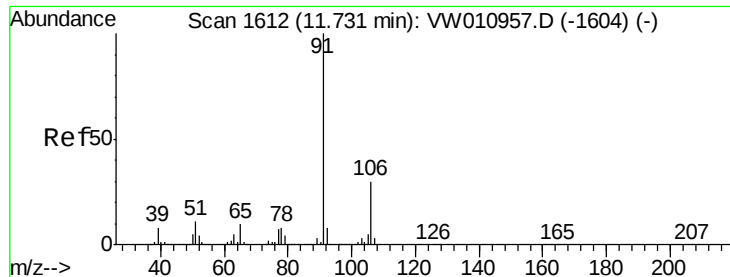
Tgt Ion:107 Resp: 94800
 Ion Ratio Lower Upper
 107 100
 109 92.9 65.5 121.7
 188 3.9 3.3 4.9



#52
 Chlorobenzene
 Concen: 24.386 ug/L
 RT: 11.66 min Scan# 1600
 Delta R.T. 0.00 min
 Lab File: VW010971.D
 Acq: 25 Jun 2019 16:37

Tgt Ion:112 Resp: 318247
 Ion Ratio Lower Upper
 112 100
 77 64.3 51.1 76.7
 114 31.6 22.7 42.1





#53

Ethylbenzene

Concen: 24.222 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW010971.D

Acq: 25 Jun 2019 16:37

Instrument :

MSVOA_W

ClientSampleId :

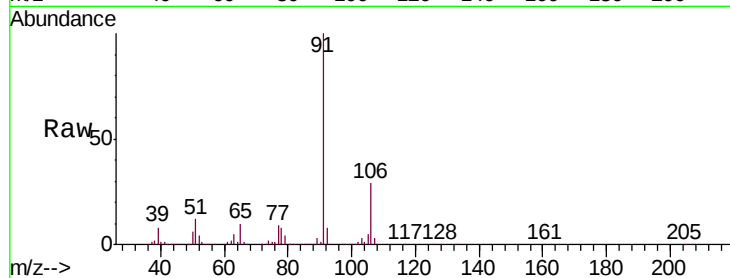
VSTD02530

Tgt Ion: 91 Resp: 591804

Ion Ratio Lower Upper

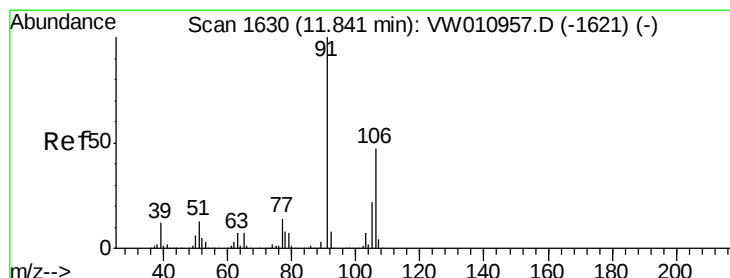
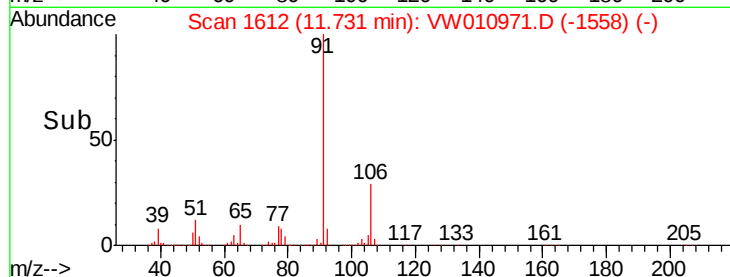
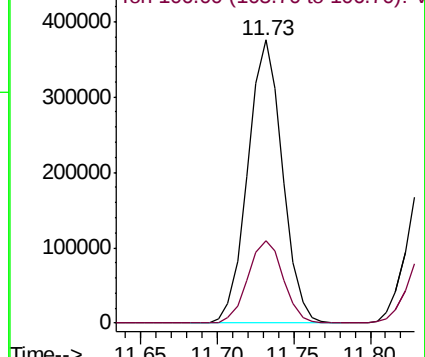
91 100

106 29.3 20.9 38.7



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V



#54

m,p-Xylene

Concen: 24.220 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW010971.D

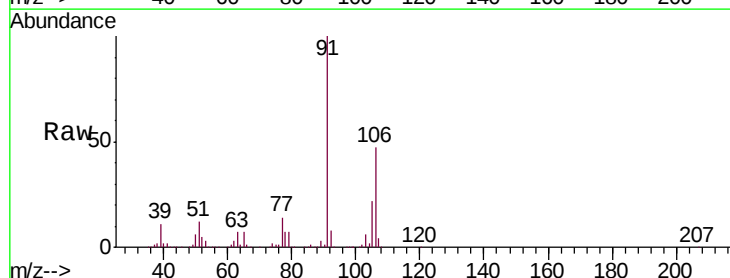
Acq: 25 Jun 2019 16:37

Tgt Ion: 106 Resp: 214740

Ion Ratio Lower Upper

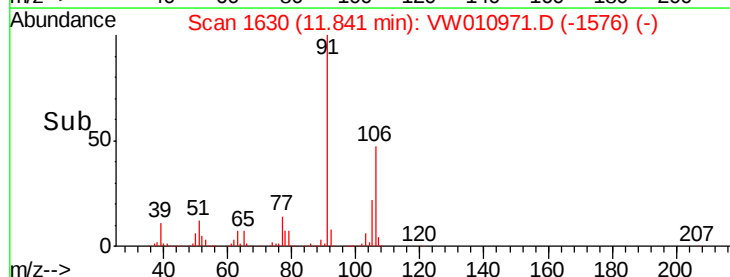
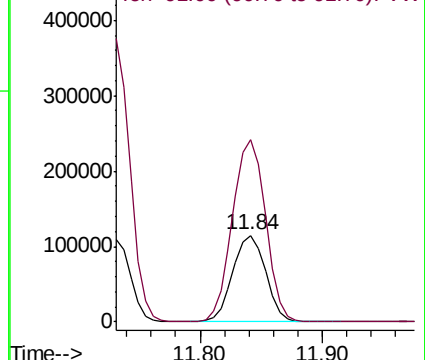
106 100

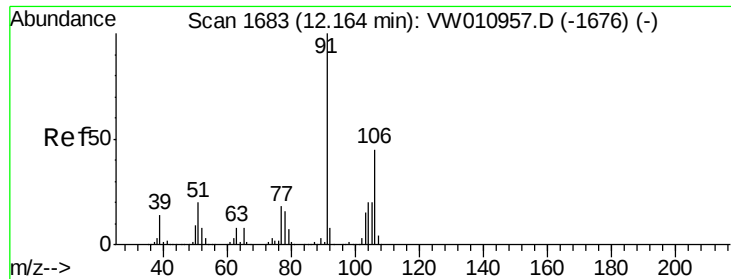
91 210.9 146.5 272.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#55

o-xylene

Concen: 24.539 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW010971.D

Acq: 25 Jun 2019 16:37

Instrument :

MSVOA_W

ClientSampleId :

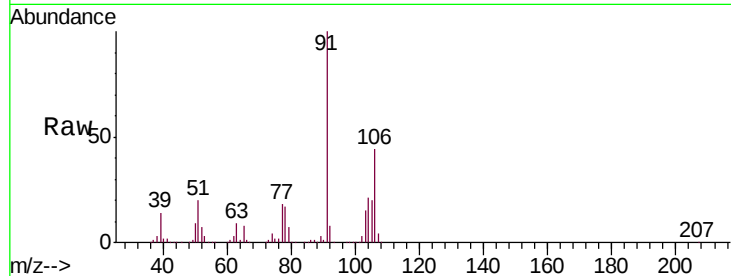
VSTD02530

Tgt Ion:106 Resp: 208772

Ion Ratio Lower Upper

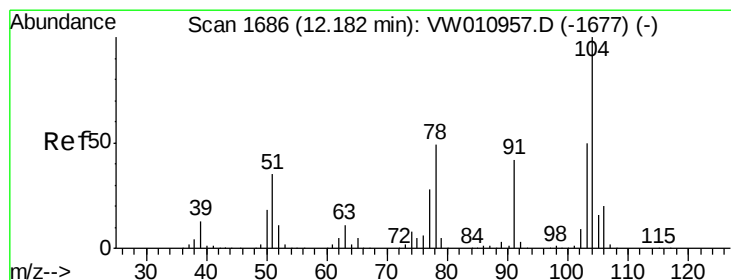
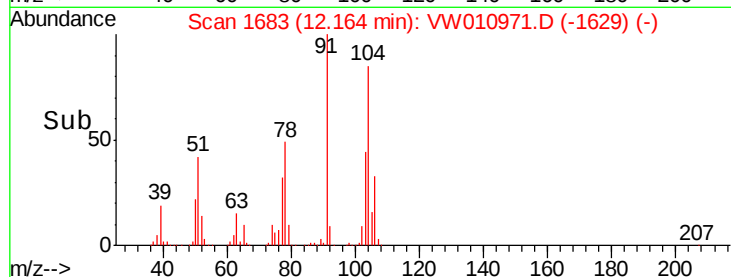
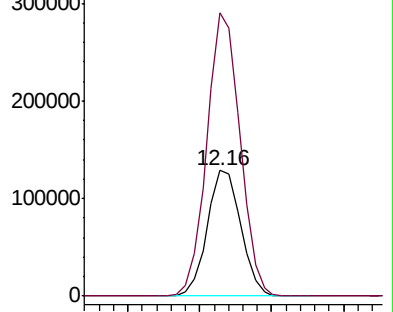
106 100

91 225.6 156.1 289.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 24.722 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VW010971.D

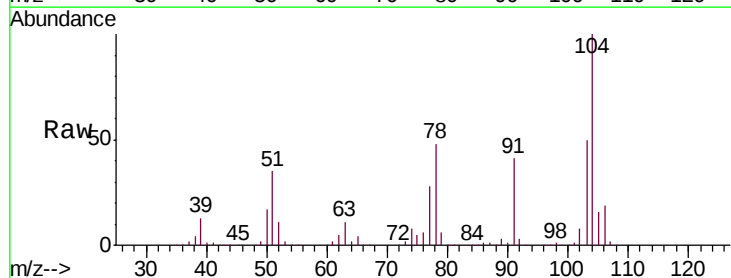
Acq: 25 Jun 2019 16:37

Tgt Ion:104 Resp: 362703

Ion Ratio Lower Upper

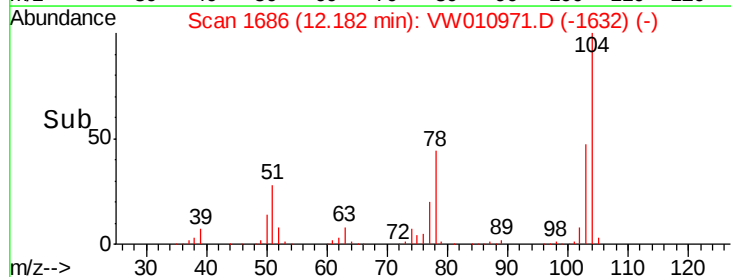
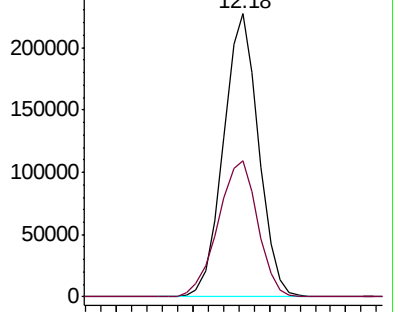
104 100

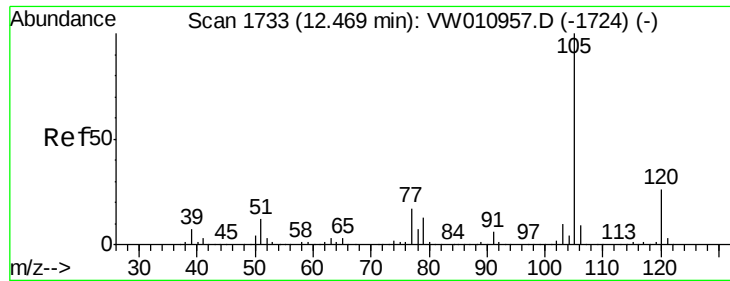
78 47.9 34.4 64.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 24.320 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.01 min

Lab File: VW010971.D

Acq: 25 Jun 2019 16:37

Instrument :

MSVOA_W

ClientSampleId :

VSTD02530

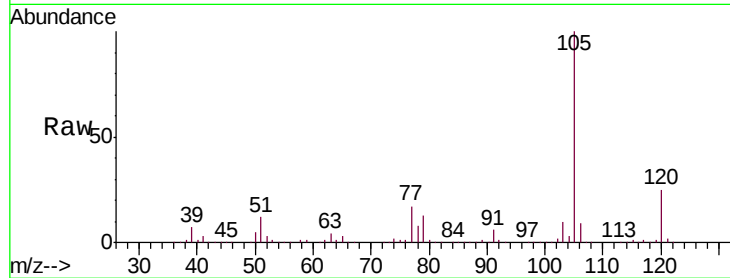
Tgt Ion: 105 Resp: 561348

Ion Ratio Lower Upper

105 100

120 25.8 20.7 31.1

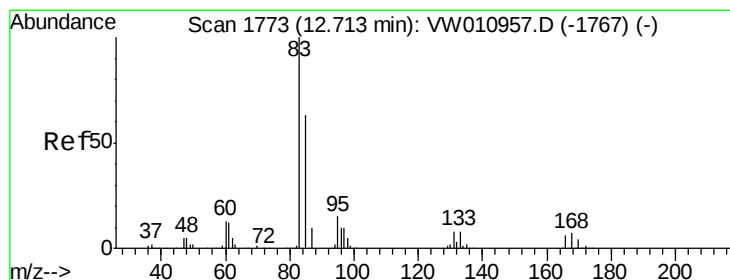
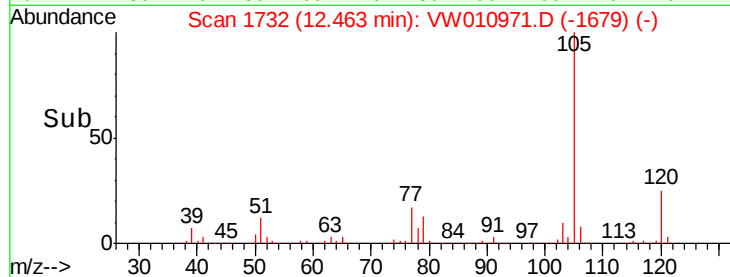
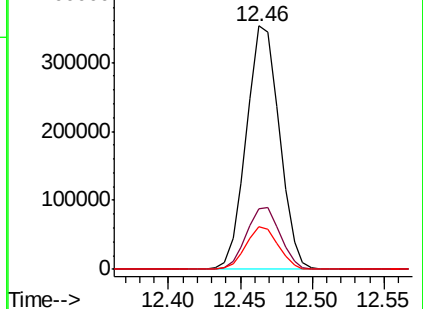
77 17.4 13.7 20.5



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: 25.518 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW010971.D

Acq: 25 Jun 2019 16:37

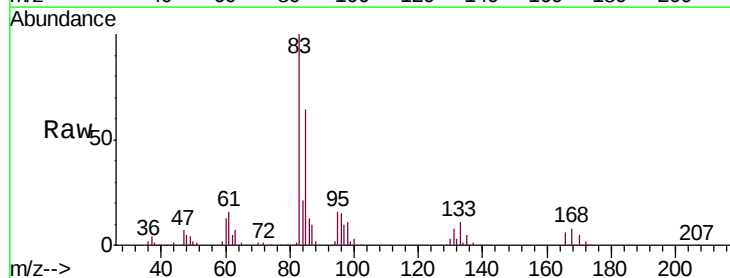
Tgt Ion: 83 Resp: 130534

Ion Ratio Lower Upper

83 100

85 64.1 44.0 81.6

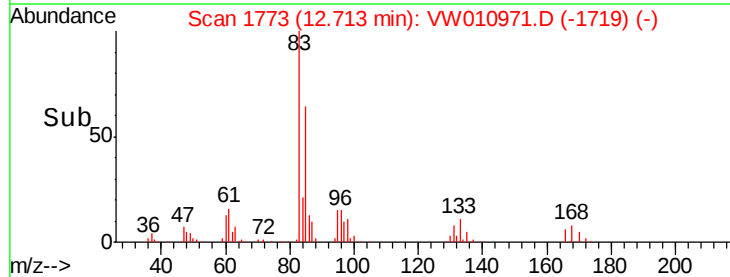
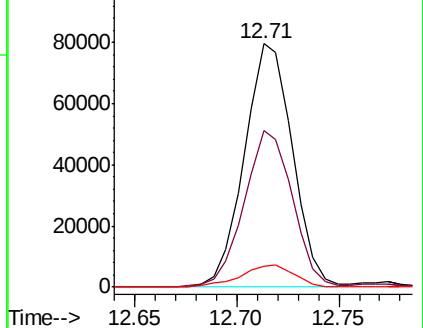
131 8.4 7.4 11.0

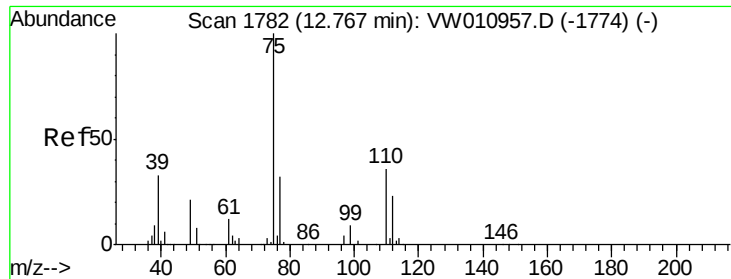


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 25.269 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW010971.D

Acq: 25 Jun 2019 16:37

Instrument :

MSVOA_W

ClientSampleId :

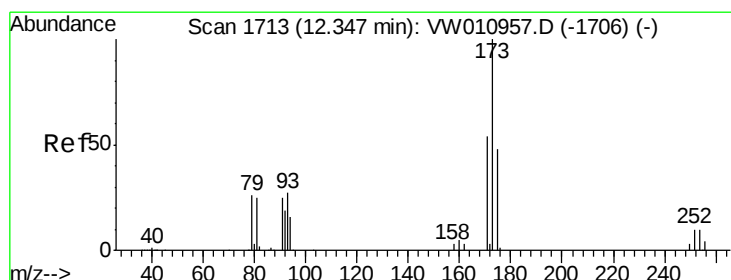
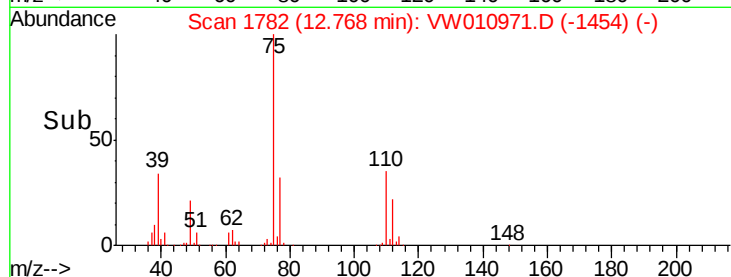
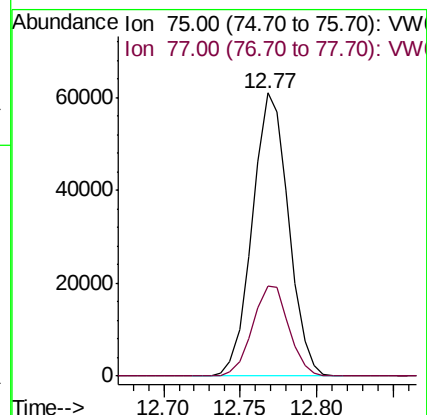
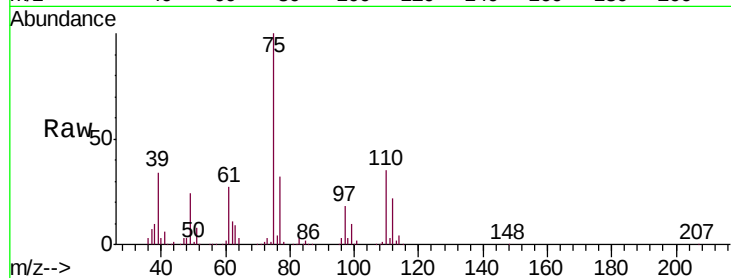
VSTD02530

Tgt Ion: 75 Resp: 100363

Ion Ratio Lower Upper

75 100

77 32.1 25.2 37.8



#62

Bromoform

Concen: 24.067 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW010971.D

Acq: 25 Jun 2019 16:37

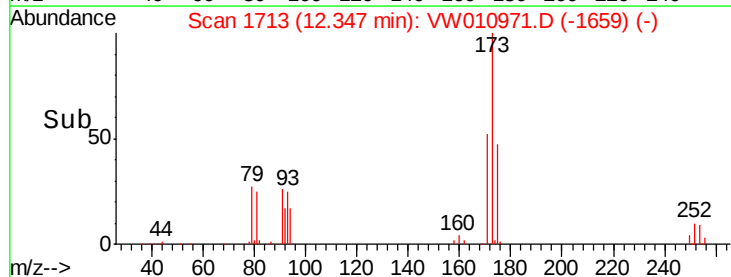
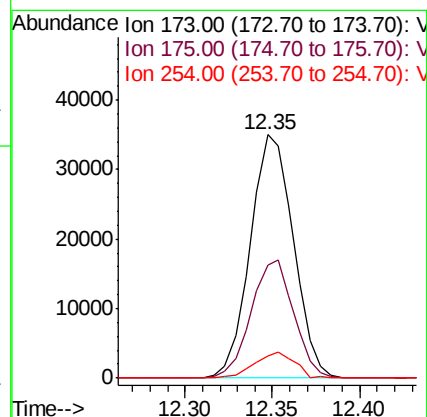
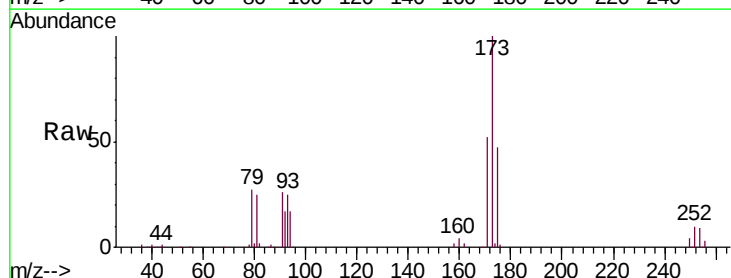
Tgt Ion: 173 Resp: 60100

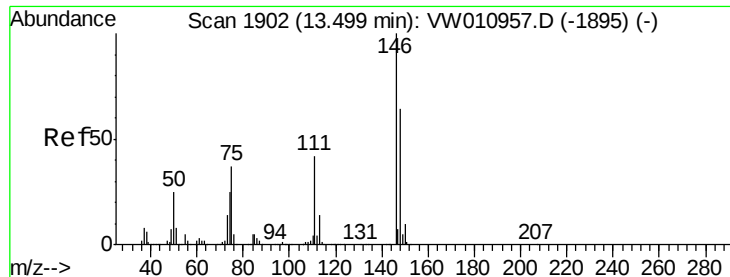
Ion Ratio Lower Upper

173 100

175 48.0 40.1 60.1

254 9.6 8.5 12.7





#63

1,3-Dichlorobenzene

Concen: 24.050 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW010971.D

Acq: 25 Jun 2019 16:37

Instrument :

MSVOA_W

ClientSampleId :

VSTD02530

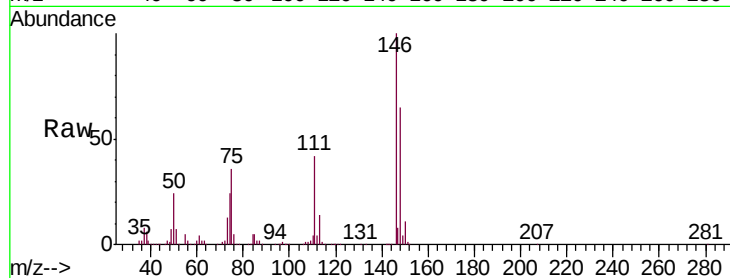
Tgt Ion:146 Resp: 244282

Ion Ratio Lower Upper

146 100

111 42.1 28.9 53.7

148 64.7 44.2 82.0

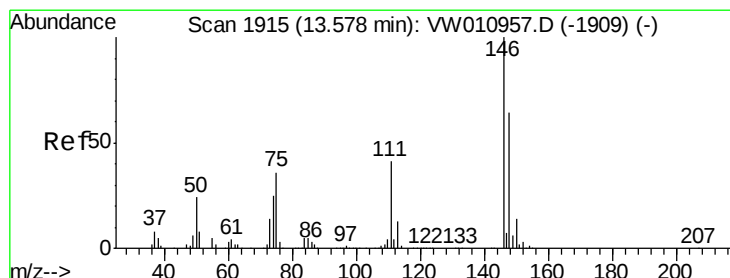
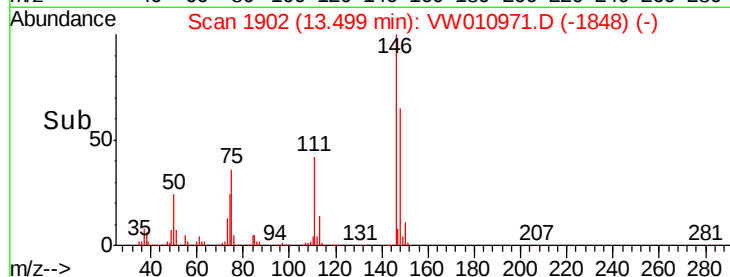
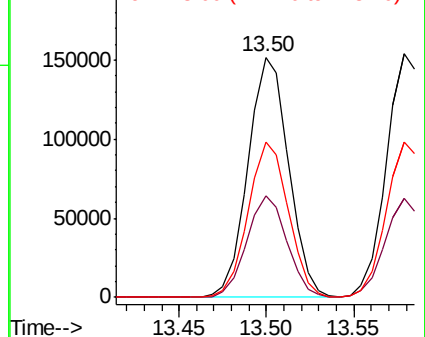


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#64

1,4-Dichlorobenzene

Concen: 24.432 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. 0.00 min

Lab File: VW010971.D

Acq: 25 Jun 2019 16:37

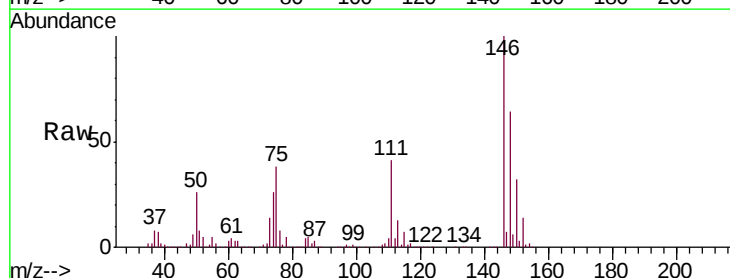
Tgt Ion:146 Resp: 249282

Ion Ratio Lower Upper

146 100

111 40.7 27.9 51.9

148 64.0 46.0 85.4

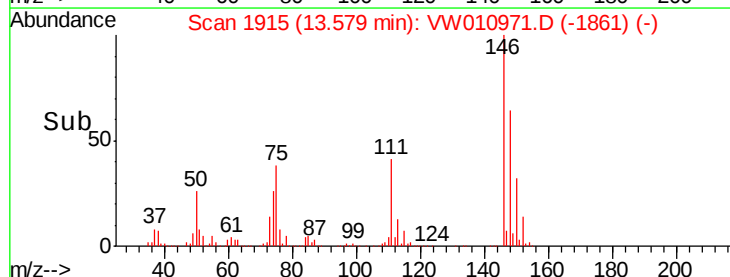
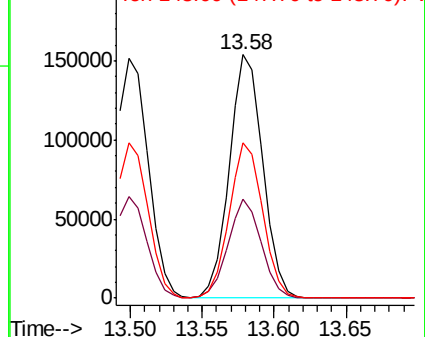


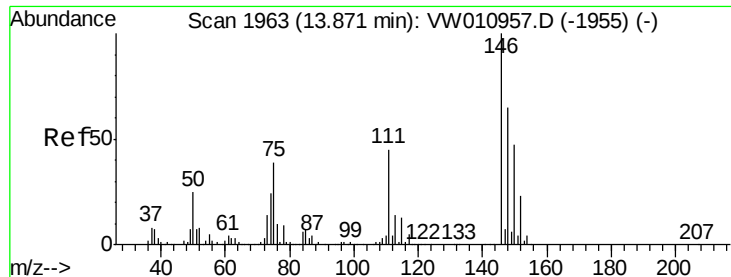
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

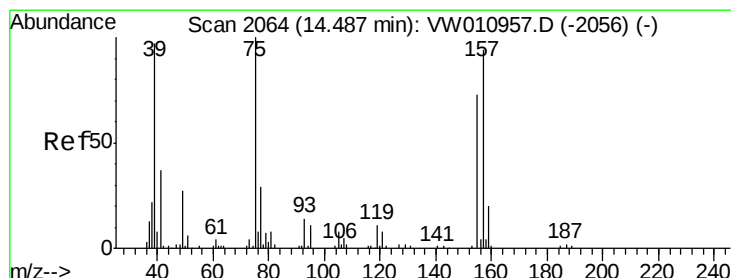
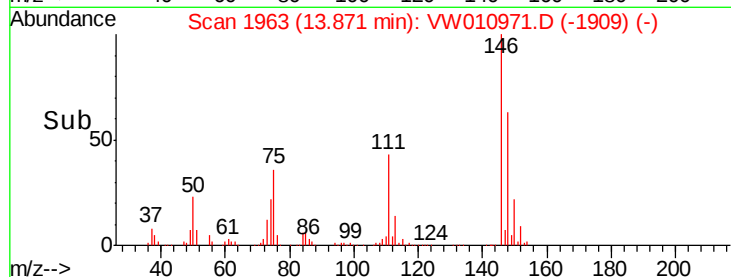
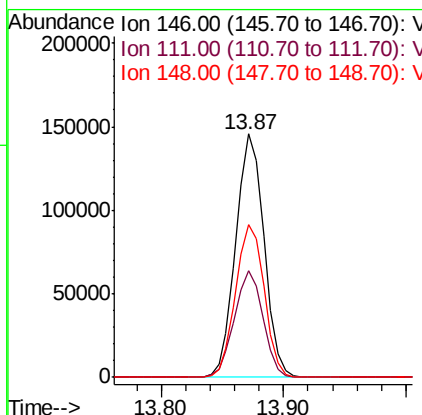
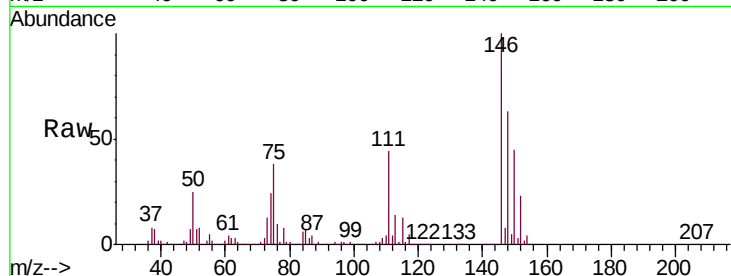




#65
 1,2-Dichlorobenzene
 Concen: 24.801 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW010971.D
 Acq: 25 Jun 2019 16:37

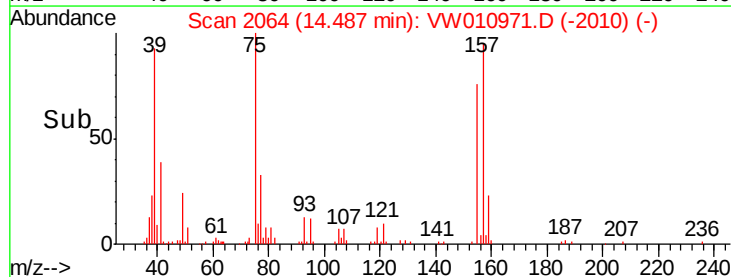
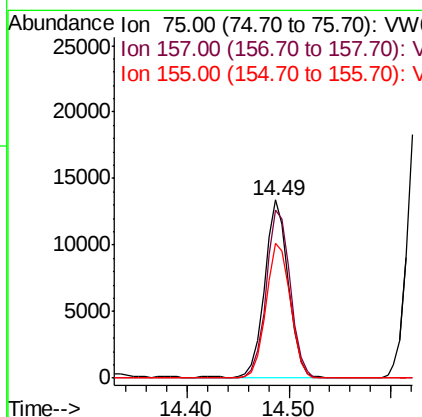
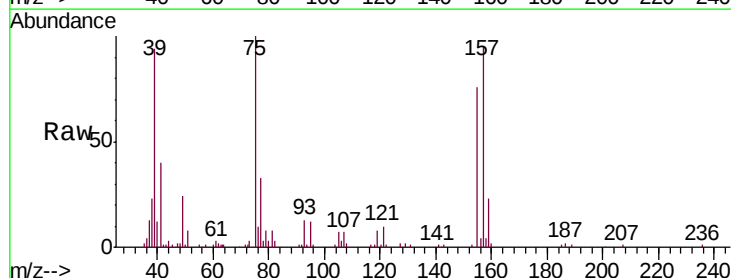
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02530

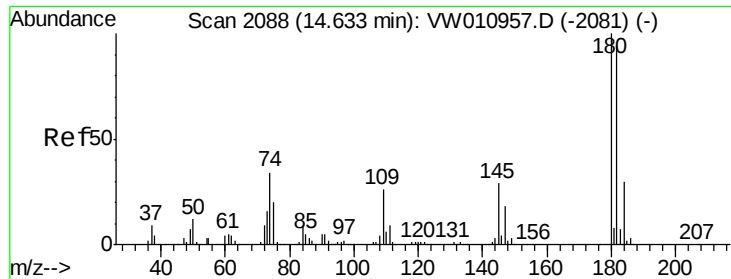
Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.6	34.6	51.8
148	62.9	50.5	75.7



#66
 1,2-Dibromo-3-chloropropane
 Concen: 22.629 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VW010971.D
 Acq: 25 Jun 2019 16:37

Tgt Ion	Ratio	Lower	Upper
75	100		
157	94.6	71.8	107.8
155	75.7	55.2	82.8

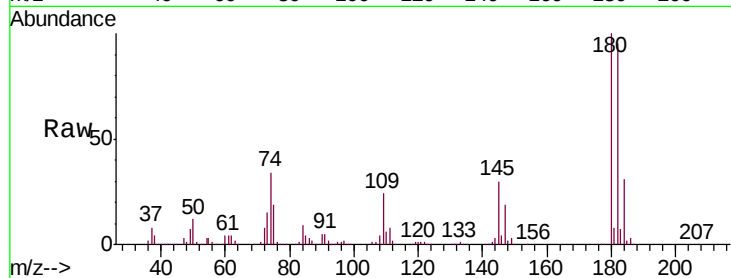




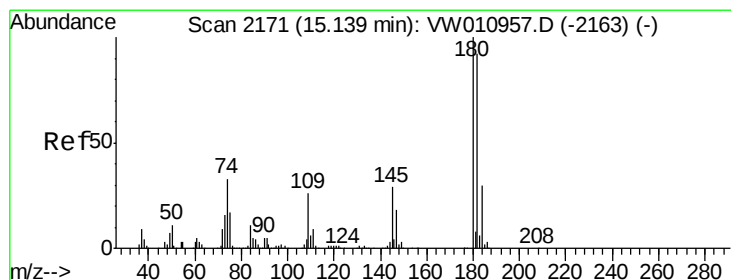
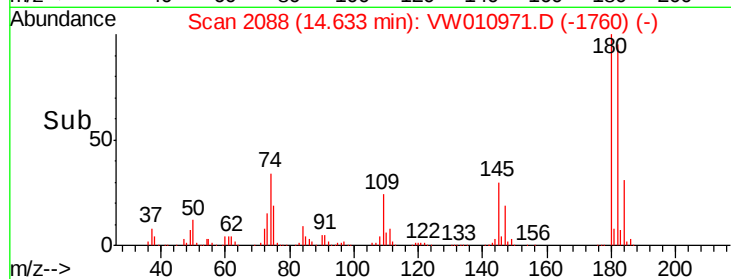
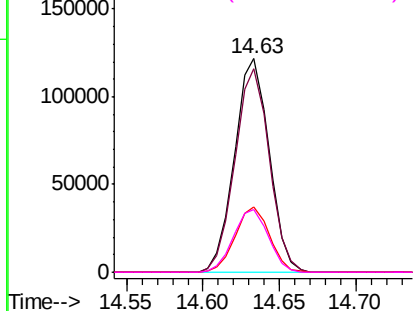
#67
 1,3,5-Trichlorobenzene
 Concen: 24.767 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. 0.00 min
 Lab File: VW010971.D
 Acq: 25 Jun 2019 16:37

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02530

Tgt Ion:	180	Resp:	191475
Ion	Ratio	Lower	Upper
180	100		
182	94.7	76.2	114.2
184	30.5	24.3	36.5
145	29.6	24.2	36.2

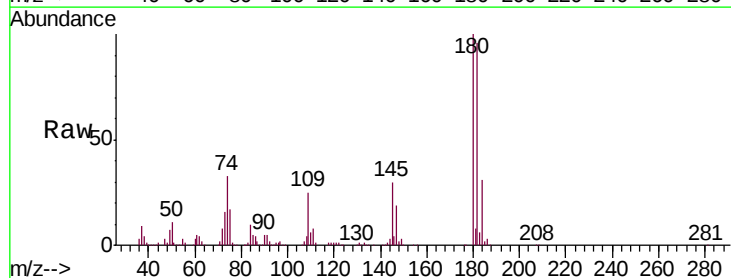


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

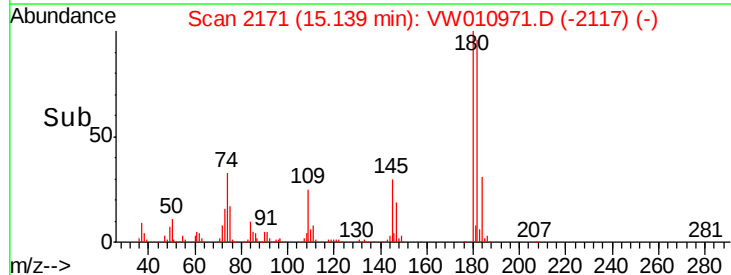
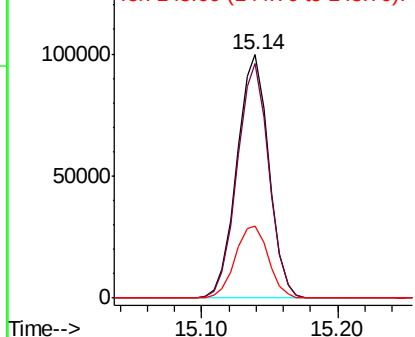


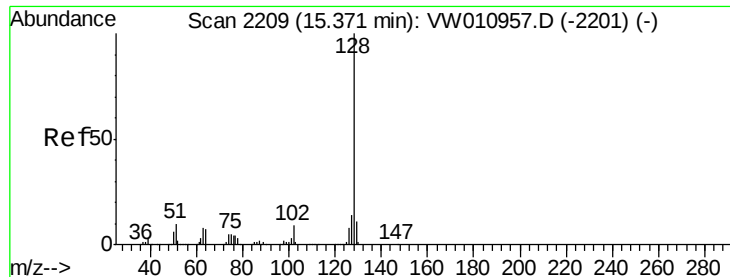
#68
 1,2,4-trichlorobenzene
 Concen: 24.922 ug/L
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.00 min
 Lab File: VW010971.D
 Acq: 25 Jun 2019 16:37

Tgt Ion:	180	Resp:	163293
Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.1	114.1
145	30.8	24.2	36.4



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





#69

Naphthalene

Concen: 25.372 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW010971.D

Acq: 25 Jun 2019 16:37

Instrument :

MSVOA_W

ClientSampled :

VSTD02530

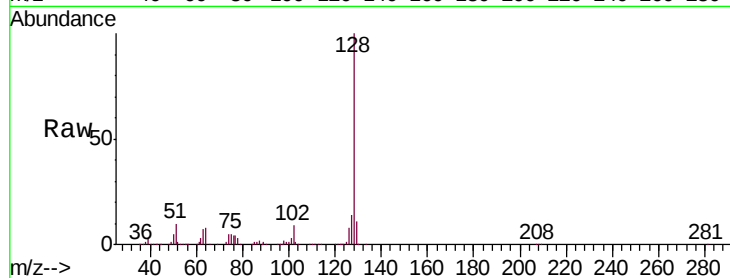
Tgt Ion:128 Resp: 354755

Ion Ratio Lower Upper

128 100

129 10.9 8.8 13.2

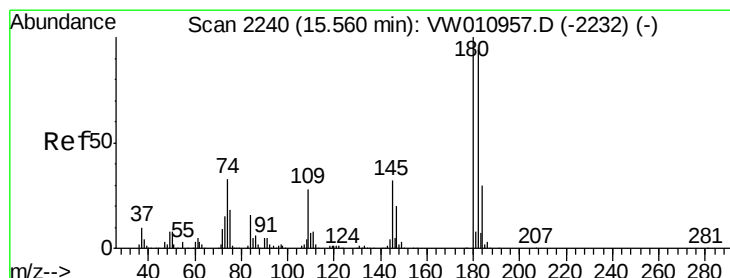
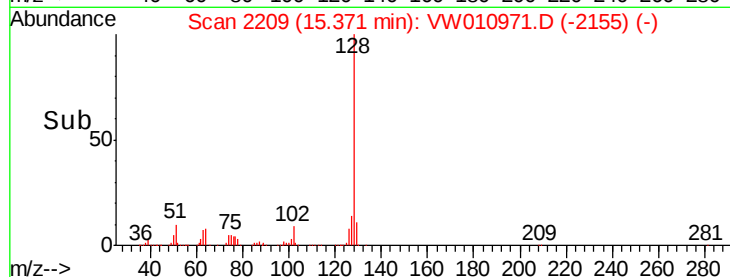
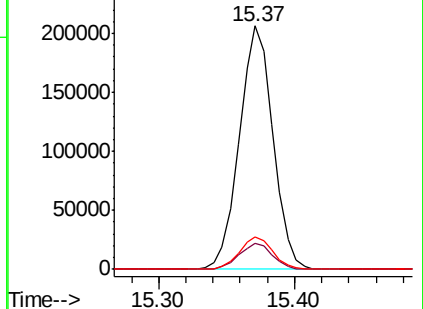
127 13.3 10.9 16.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 25.012 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. 0.00 min

Lab File: VW010971.D

Acq: 25 Jun 2019 16:37

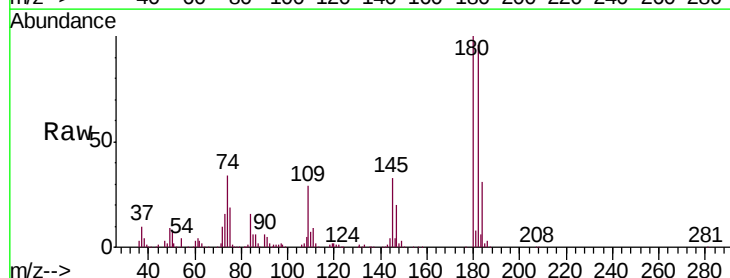
Tgt Ion:180 Resp: 148865

Ion Ratio Lower Upper

180 100

182 95.0 76.0 114.0

145 32.3 25.6 38.4



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

