

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD122319\
 Data File : VD064562.D
 Acq On : 23 Dec 2019 12:14
 Operator : VA/SY
 Sample : VD1223SBS01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1223SBS01

Quant Time: Dec 24 05:52:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 29 07:18:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	394616	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	578473	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	516445	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	267057	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	182317	51.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.08%	
35) Dibromofluoromethane	7.92	113	188924	51.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.68%	
50) Toluene-d8	10.34	98	701190	51.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.14%	
62) 4-Bromofluorobenzene	12.64	95	224761	50.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.88%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	73336	20.510	ug/l	99
3) Chloromethane	2.21	50	94578	20.972	ug/l	99
4) Vinyl Chloride	2.35	62	111415	21.397	ug/l	100
5) Bromomethane	2.76	94	76775	19.938	ug/l	92
6) Chloroethane	2.92	64	76306	21.924	ug/l	100
7) Trichlorofluoromethane	3.27	101	192644	22.255	ug/l	95
8) Diethyl Ether	3.71	74	37786	21.006	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	4.09	101	79949	21.540	ug/l	100
10) Methyl Iodide	4.29	142	80666	20.580	ug/l	98
11) Tert butyl alcohol	5.26	59	20573	90.484	ug/l #	100
12) 1,1-Dichloroethene	4.06	96	73397	20.635	ug/l	98
13) Acrolein	3.93	56	23790	76.711	ug/l	92
14) Allyl chloride	4.71	41	117814	21.224	ug/l	99
15) Acrylonitrile	5.43	53	77946	99.093	ug/l	99
16) Acetone	4.17	43	69883	96.818	ug/l	95
17) Carbon Disulfide	4.40	76	225248	19.995	ug/l	99
18) Methyl Acetate	4.73	43	42059	19.976	ug/l	99
19) Methyl tert-butyl Ether	5.49	73	170591	20.908	ug/l	99
20) Methylene Chloride	4.96	84	92326	22.751	ug/l	98
21) trans-1,2-Dichloroethene	5.47	96	84282	20.948	ug/l	95
22) Diisopropyl ether	6.37	45	233652	21.322	ug/l	95
23) Vinyl Acetate	6.31	43	656836	101.673	ug/l	99
24) 1,1-Dichloroethane	6.27	63	143305	21.745	ug/l	97
25) 2-Butanone	7.22	43	99390	97.367	ug/l	99
26) 2,2-Dichloropropane	7.21	77	130760	22.816	ug/l	98
27) cis-1,2-Dichloroethene	7.22	96	91569	20.876	ug/l	98
28) Bromochloromethane	7.55	49	38184	16.954	ug/l	99
29) Tetrahydrofuran	7.57	42	64938	99.991	ug/l	95
30) Chloroform	7.71	83	146851	21.516	ug/l	93
31) Cyclohexane	7.98	56	135395	20.858	ug/l	98
32) 1,1,1-Trichloroethane	7.90	97	141428	22.351	ug/l	98
36) 1,1-Dichloropropene	8.11	75	114590	20.943	ug/l	99
37) Ethyl Acetate	7.30	43	43204	18.609	ug/l	96
38) Carbon Tetrachloride	8.10	117	127797	22.130	ug/l	96

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Quant Time: Dec 24 05:52:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 29 07:18:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	144024	21.220	ug/l	92
40) Benzene	8.35	78	317247	20.876	ug/l	100
41) Methacrylonitrile	7.53	41	30235	22.708	ug/l	97
42) 1,2-Dichloroethane	8.43	62	96048	21.673	ug/l	98
43) Isopropyl Acetate	8.46	43	93682	20.522	ug/l	99
44) Trichloroethene	9.11	130	95258	20.809	ug/l	97
45) 1,2-Dichloropropane	9.39	63	78291	21.541	ug/l	93
46) Dibromomethane	9.47	93	42361	20.651	ug/l	98
47) Bromodichloromethane	9.67	83	113232	21.483	ug/l	98
48) Methyl methacrylate	9.46	41	41420	19.829	ug/l	97
49) 1,4-Dioxane	9.47	88	9609	379.350	ug/l #	90
51) 4-Methyl-2-Pentanone	10.23	43	224510	99.399	ug/l	99
52) Toluene	10.40	92	211660	21.371	ug/l	98
53) t-1,3-Dichloropropene	10.62	75	106707	21.243	ug/l	99
54) cis-1,3-Dichloropropene	10.09	75	128350	21.509	ug/l	97
55) 1,1,2-Trichloroethane	10.80	97	58757	20.919	ug/l	96
56) Ethyl methacrylate	10.67	69	71316	19.907	ug/l	97
57) 1,3-Dichloropropane	10.95	76	101734	21.277	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.94	63	153935	107.791	ug/l	99
59) 2-Hexanone	10.99	43	153697	98.067	ug/l	98
60) Dibromochloromethane	11.14	129	79310	20.826	ug/l	97
61) 1,2-Dibromoethane	11.25	107	55439	19.768	ug/l	100
64) Tetrachloroethene	10.88	164	82762	21.015	ug/l	94
65) Chlorobenzene	11.67	112	220910	20.509	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.74	131	85451	21.430	ug/l	98
67) Ethyl Benzene	11.75	91	393614	20.538	ug/l	99
68) m/p-Xylenes	11.86	106	308513	42.220	ug/l	99
69) o-Xylene	12.18	106	138599	20.537	ug/l	99
70) Styrene	12.20	104	240623	20.518	ug/l	99
71) Bromoform	12.36	173	47114	19.749	ug/l #	98
73) Isopropylbenzene	12.48	105	383211	19.952	ug/l	99
74) N-amyl acetate	12.30	43	85033	19.506	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.74	83	58197	18.323	ug/l	92
76) 1,2,3-Trichloropropane	12.78	75	80722	36.755	ug/l #	100
77) Bromobenzene	12.77	156	93976	19.813	ug/l	100
78) n-propylbenzene	12.83	91	447948	20.213	ug/l	99
79) 2-Chlorotoluene	12.91	91	245396	20.124	ug/l	99
80) 1,3,5-Trimethylbenzene	12.97	105	314290	20.024	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.53	75	19377	19.239	ug/l	98
82) 4-Chlorotoluene	13.01	91	257009	19.906	ug/l	100
83) tert-Butylbenzene	13.23	119	275691	20.204	ug/l	98
84) 1,2,4-Trimethylbenzene	13.27	105	308487	19.546	ug/l	100
85) sec-Butylbenzene	13.41	105	375680	20.059	ug/l	99
86) p-Isopropyltoluene	13.53	119	353262	19.979	ug/l	99
87) 1,3-Dichlorobenzene	13.53	146	177484	19.715	ug/l	99
88) 1,4-Dichlorobenzene	13.60	146	177398	19.959	ug/l	99
89) n-Butylbenzene	13.85	91	327610	20.403	ug/l	99
90) Hexachloroethane	14.12	117	68416	20.688	ug/l	99
91) 1,2-Dichlorobenzene	13.90	146	149185	19.391	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.52	75	10113	18.553	ug/l	85

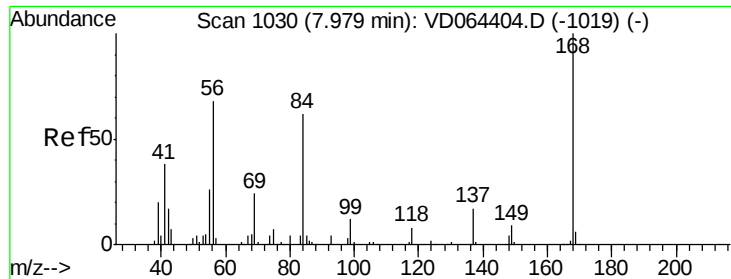
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD122319\
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ClientSampleId :
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D112719S.M
Quant Title : SW846 8260
QLast Update : Fri Nov 29 07:18:03 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	117691	19.974	ug/l	97
94) Hexachlorobutadiene	15.28	225	71940	19.778	ug/l	98
95) Naphthalene	15.41	128	181973	18.506	ug/l	99
96) 1,2,3-Trichlorobenzene	15.61	180	97840	19.453	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD064562.D

Acq: 23 Dec 2019 12:14

Instrument :

MSVOA_D

ClientSampleId :

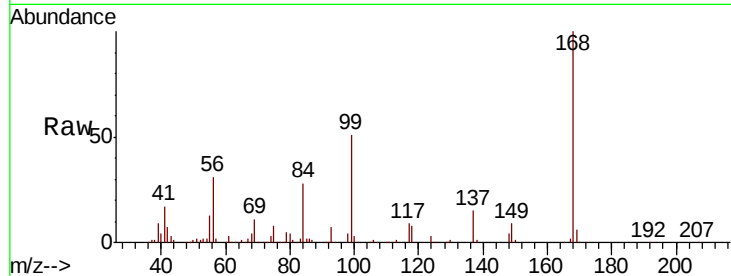
VD1223SBSD01

Tot Ion:168 Resp: 394616

Ion Ratio Lower Upper

168 100

99 50.4 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

200000

150000

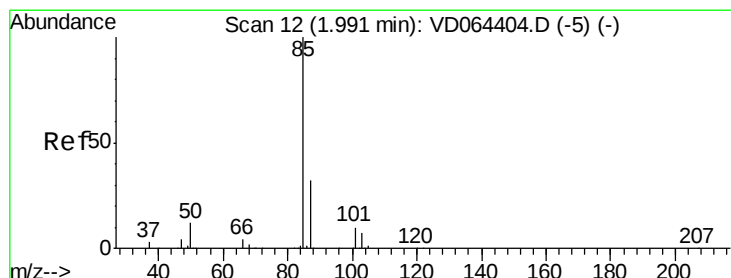
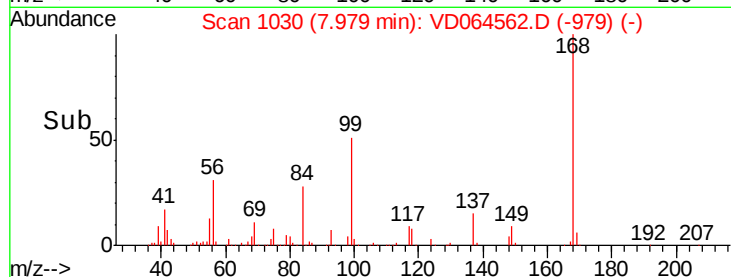
100000

50000

0

7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 20.510 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD064562.D

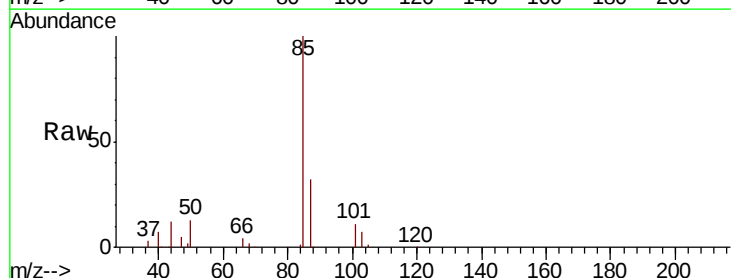
Acq: 23 Dec 2019 12:14

Tgt Ion: 85 Resp: 73336

Ion Ratio Lower Upper

85 100

87 32.4 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

50000

40000

30000

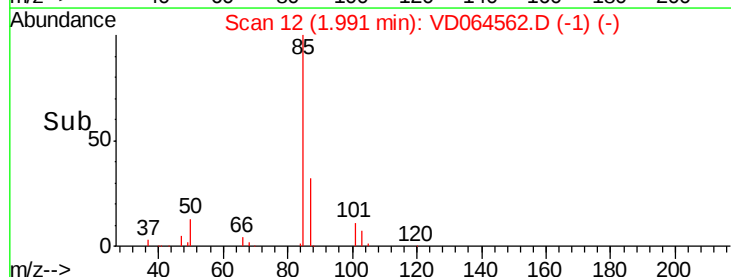
20000

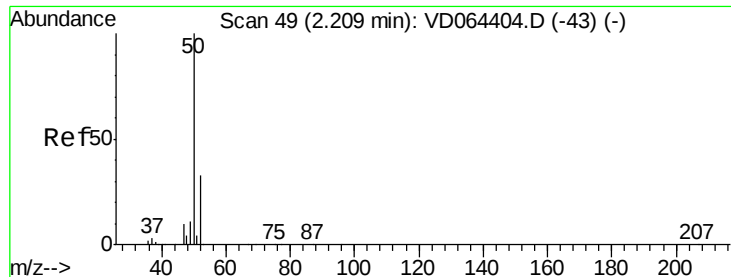
10000

0

1.90 1.95 2.00 2.05 2.10

Time-->





#3

Chloromethane

Concen: 20.972 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD064562.D

Acq: 23 Dec 2019 12:14

Instrument :

MSVOA_D

ClientSampleId :

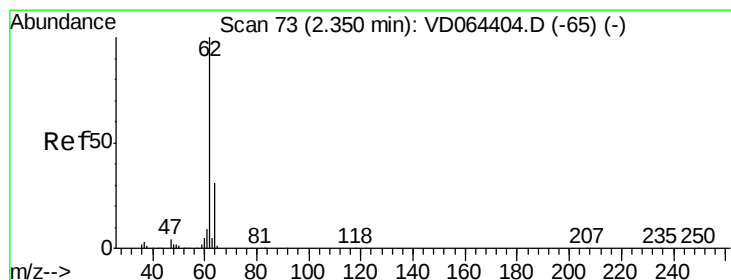
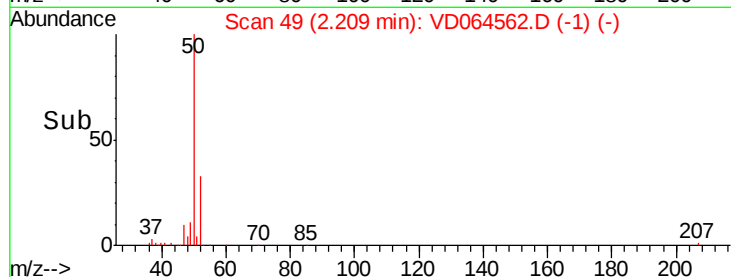
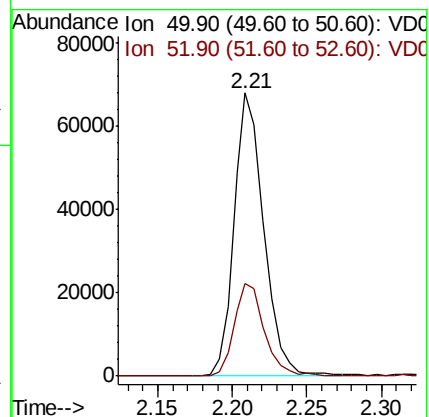
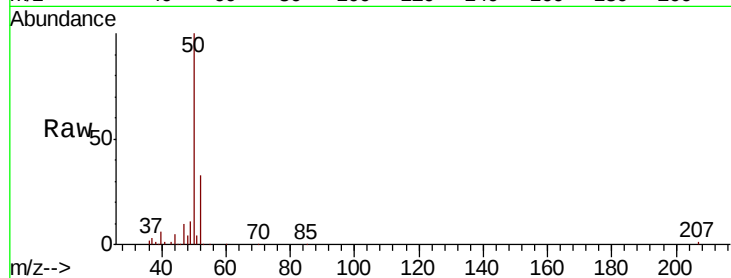
VD1223SBS01

Tot Ion: 50 Resp: 94578

Ion Ratio Lower Upper

50 100

52 32.8 26.7 40.1



#4

Vinyl Chloride

Concen: 21.397 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD064562.D

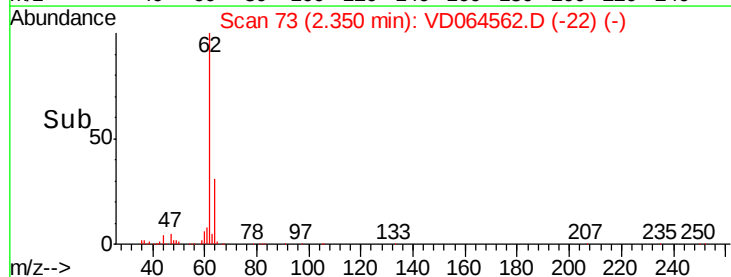
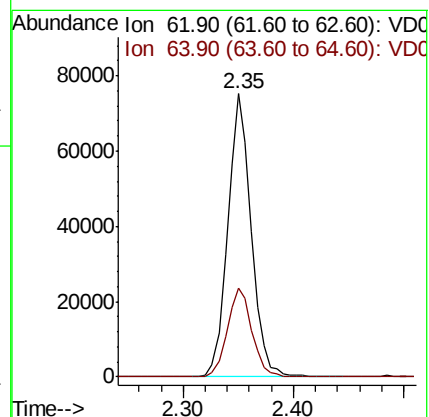
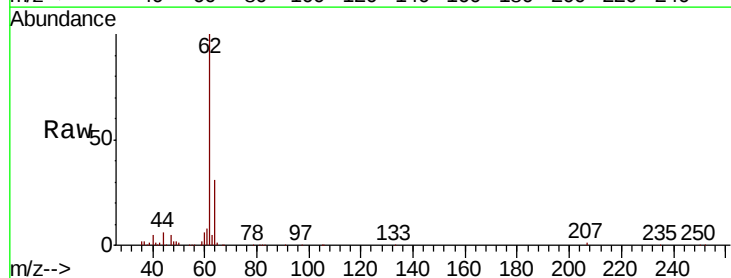
Acq: 23 Dec 2019 12:14

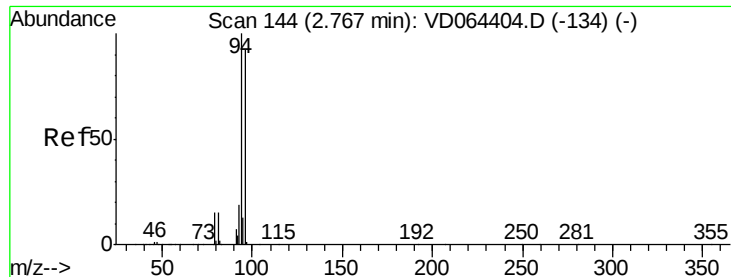
Tgt Ion: 62 Resp: 111415

Ion Ratio Lower Upper

62 100

64 31.4 25.0 37.4





#5

Bromomethane

Concen: 19.938 ug/l

RT: 2.76 min Scan# 143

Delta R.T. -0.01 min

Lab File: VD064562.D

Acq: 23 Dec 2019 12:14

Instrument :

MSVOA_D

ClientSampleId :

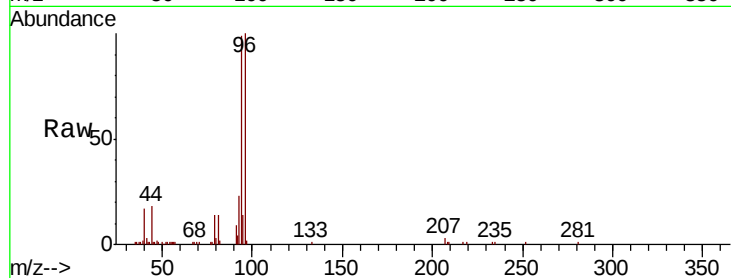
VD1223SBSD01

Tot Ion: 94 Resp: 76775

Ion Ratio Lower Upper

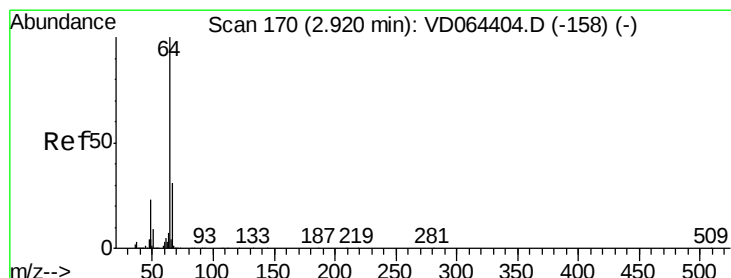
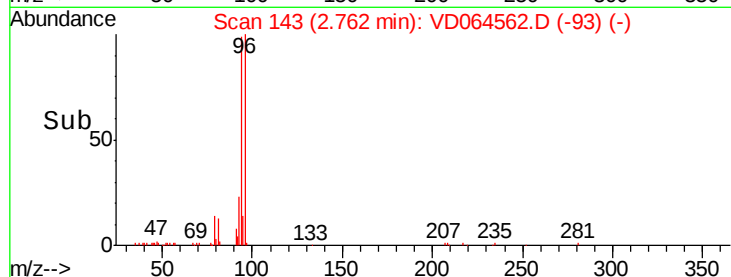
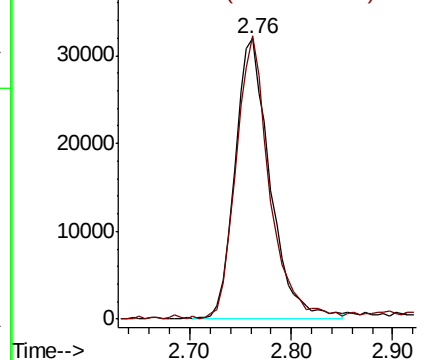
94 100

96 100.1 73.6 110.4



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 21.924 ug/l

RT: 2.92 min Scan# 170

Delta R.T. 0.00 min

Lab File: VD064562.D

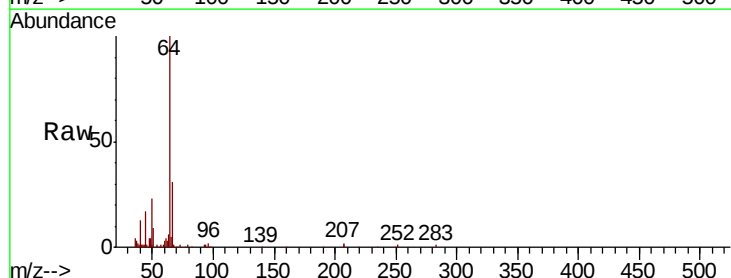
Acq: 23 Dec 2019 12:14

Tgt Ion: 64 Resp: 76306

Ion Ratio Lower Upper

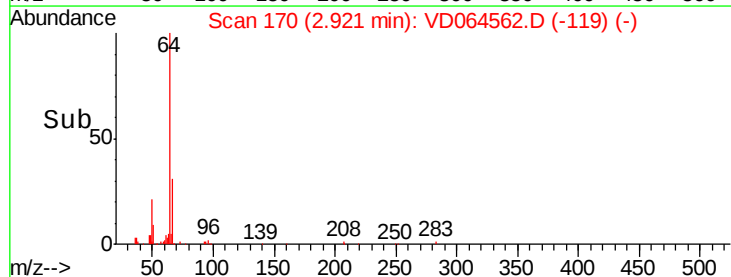
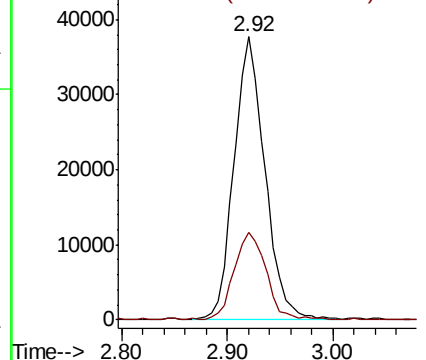
64 100

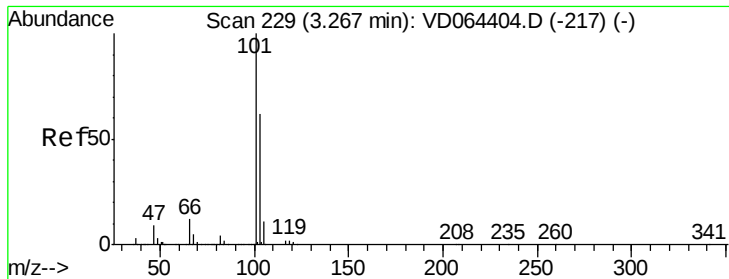
66 30.9 24.6 37.0



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC



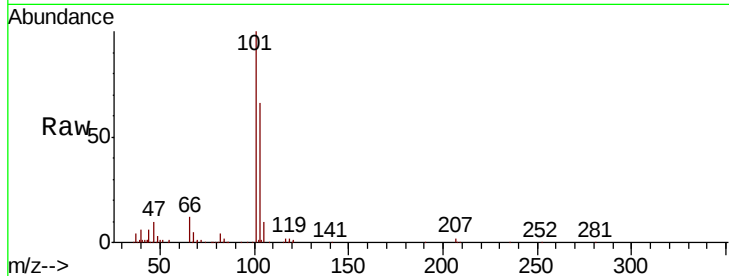


#7

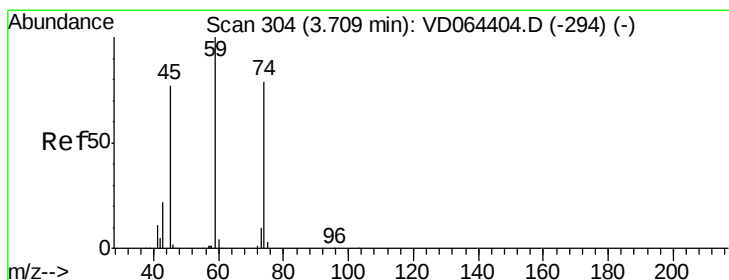
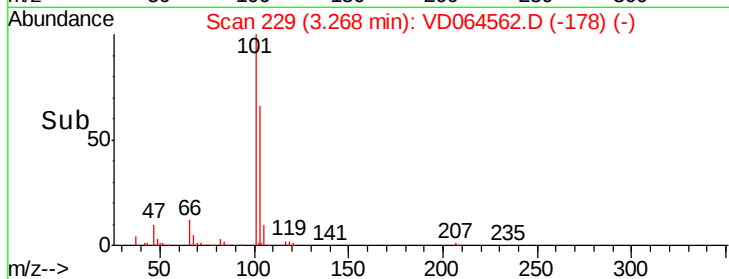
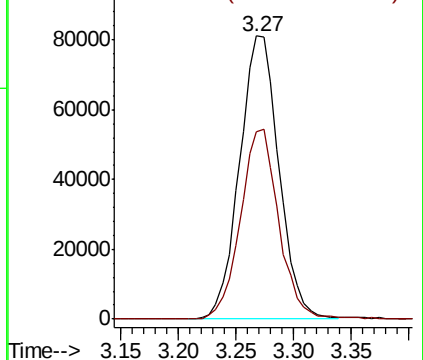
Trichlorofluoromethane
 Concen: 22.255 ug/l
 RT: 3.27 min Scan# 229
 Delta R.T. 0.00 min
 Lab File: VD064562.D
 Acq: 23 Dec 2019 12:14

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1223SBSD01

Tot Ion:101 Resp: 192644
 Ion Ratio Lower Upper
 101 100
 103 66.2 49.8 74.6



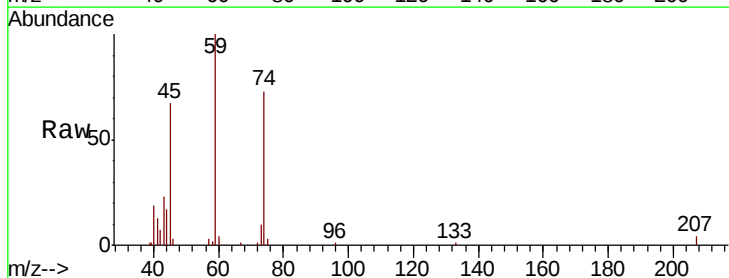
Abundance Ion 100.90 (100.60 to 101.60): V
 Ion 102.80 (102.50 to 103.50): V



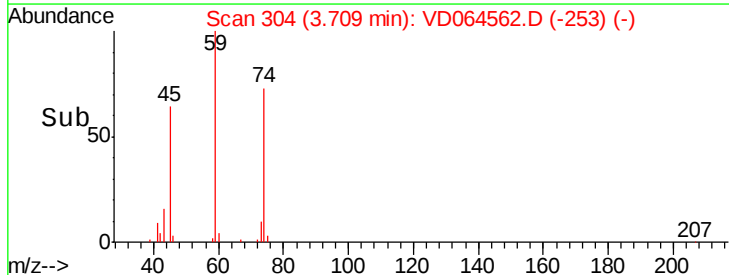
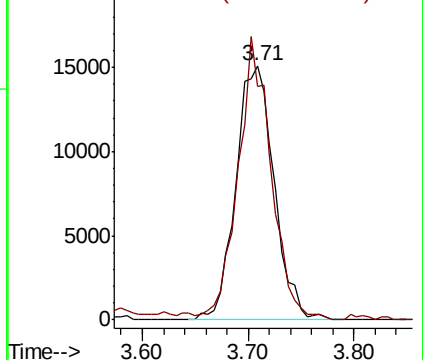
#8

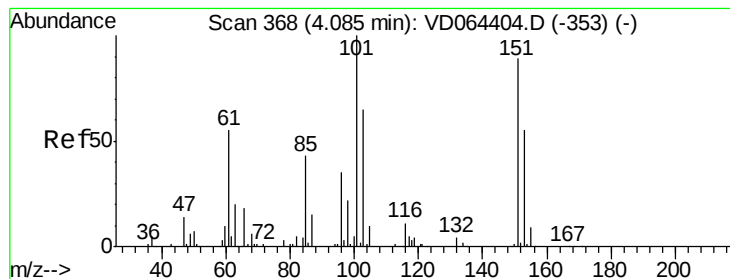
Diethyl Ether
 Concen: 21.006 ug/l
 RT: 3.71 min Scan# 304
 Delta R.T. 0.00 min
 Lab File: VD064562.D
 Acq: 23 Dec 2019 12:14

Tgt Ion: 74 Resp: 37786
 Ion Ratio Lower Upper
 74 100
 45 97.0 48.6 145.9



Abundance Ion 74.00 (73.70 to 74.70): VDC
 Ion 45.00 (44.70 to 45.70): VDC





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.540 ug/l

RT: 4.09 min Scan# 368

Delta R.T. 0.00 min

Lab File: VD064562.D

Acq: 23 Dec 2019 12:14

Instrument :

MSVOA_D

ClientSampleId :

VD1223SBSD01

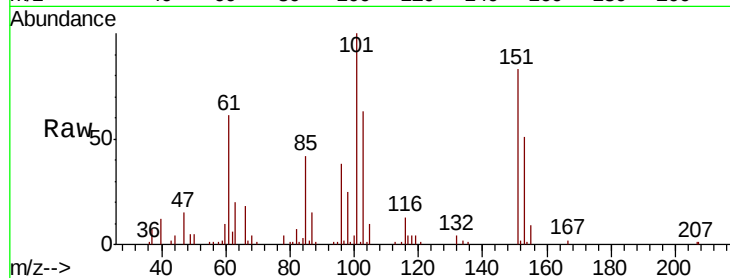
Tot Ion:101 Resp: 79949

Ion Ratio Lower Upper

101 100

85 43.9 34.8 52.2

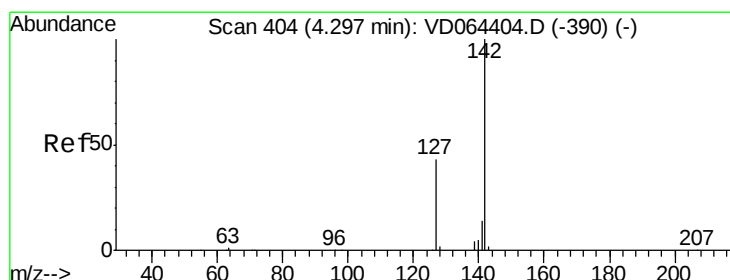
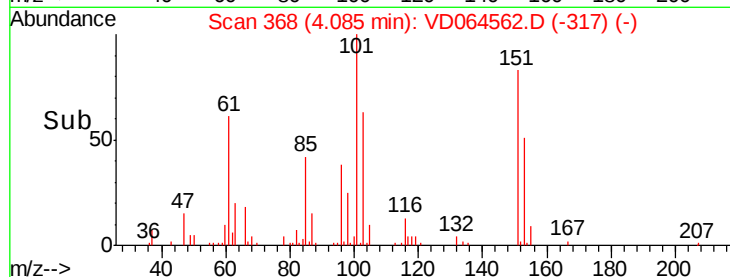
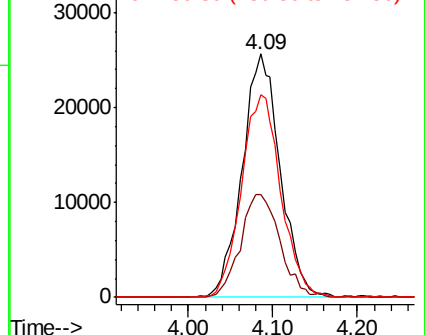
151 86.4 68.8 103.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 20.580 ug/l

RT: 4.29 min Scan# 403

Delta R.T. -0.01 min

Lab File: VD064562.D

Acq: 23 Dec 2019 12:14

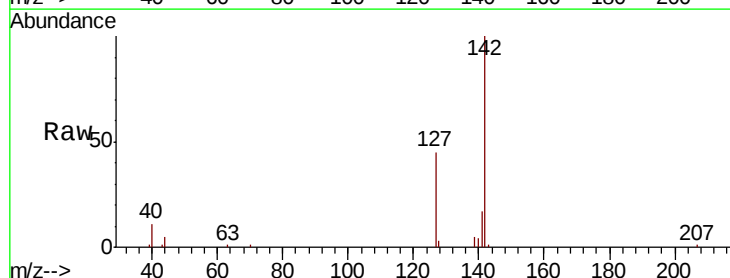
Tgt Ion:142 Resp: 80666

Ion Ratio Lower Upper

142 100

127 45.5 35.3 52.9

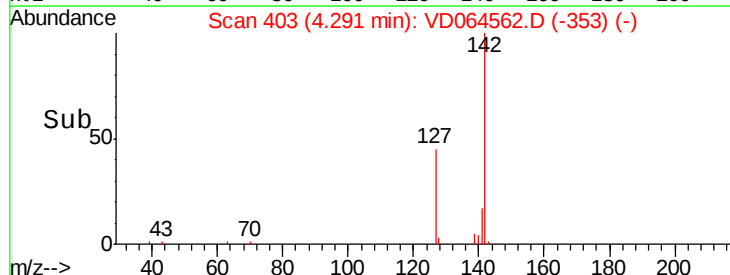
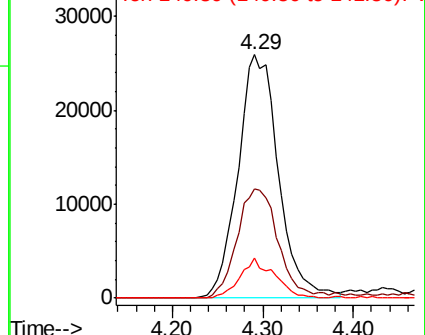
141 14.2 11.6 17.4

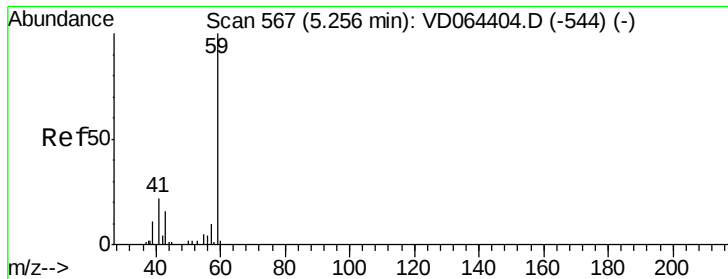


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



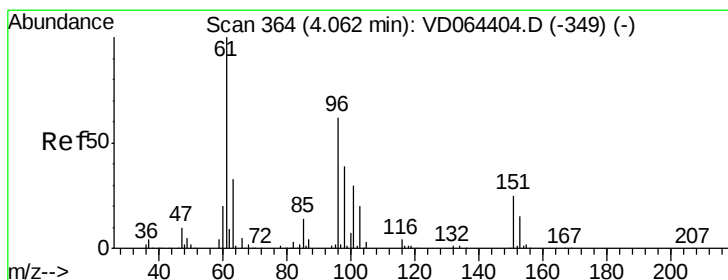
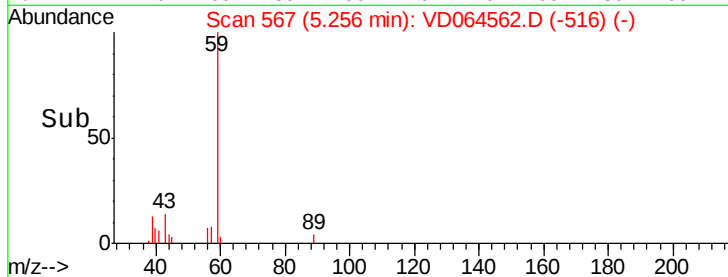
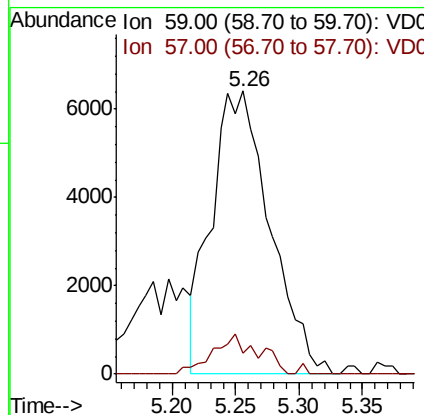
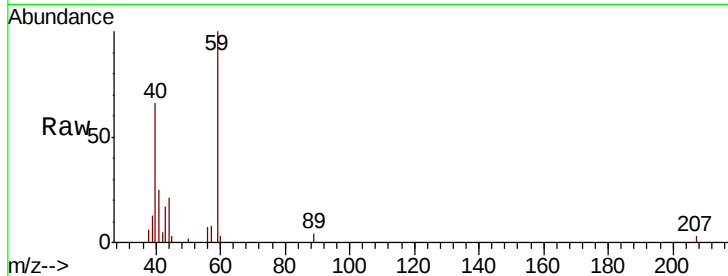


#11

Tert butyl alcohol
Concen: 90.484 ug/l
RT: 5.26 min Scan# 567
Delta R.T. 0.00 min
Lab File: VD064562.D
Acq: 23 Dec 2019 12:14

Instrument :
MSVOA_D
ClientSampleId :
VD1223SBS01

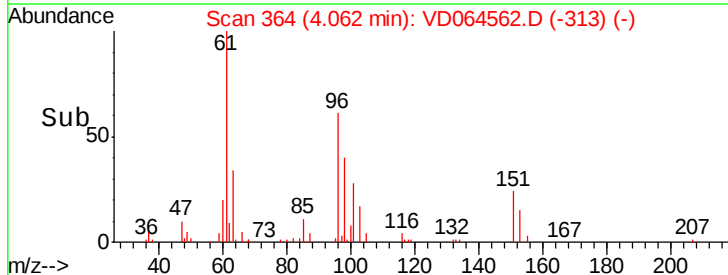
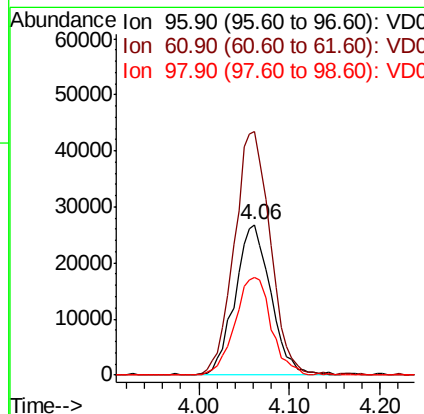
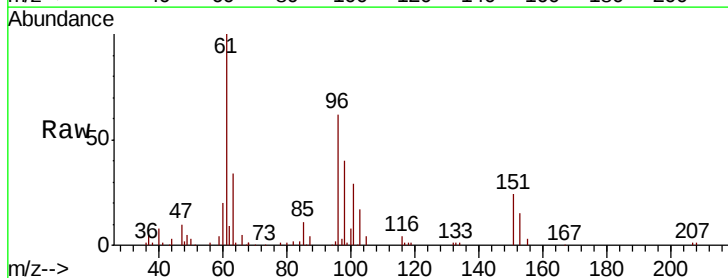
Tot Ion: 59 Resp: 20573
Ion Ratio Lower Upper
59 100
57 11.0 0.0 0.0#

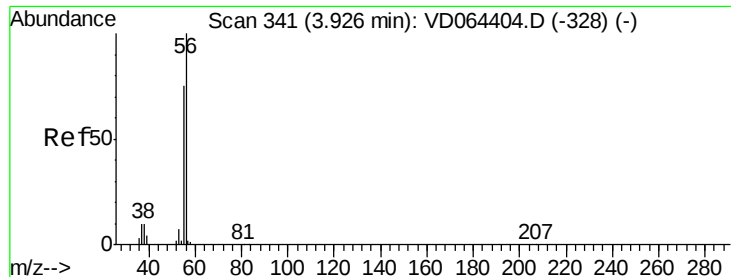


#12

1,1-Dichloroethene
Concen: 20.635 ug/l
RT: 4.06 min Scan# 364
Delta R.T. 0.00 min
Lab File: VD064562.D
Acq: 23 Dec 2019 12:14

Tgt Ion: 96 Resp: 73397
Ion Ratio Lower Upper
96 100
61 162.0 128.2 192.4
98 65.1 50.4 75.6





#13

Acrolein

Concen: 76.711 ug/l

RT: 3.93 min Scan# 341

Delta R.T. 0.00 min

Lab File: VD064562.D

Acq: 23 Dec 2019 12:14

Instrument :

MSVOA_D

ClientSampleId :

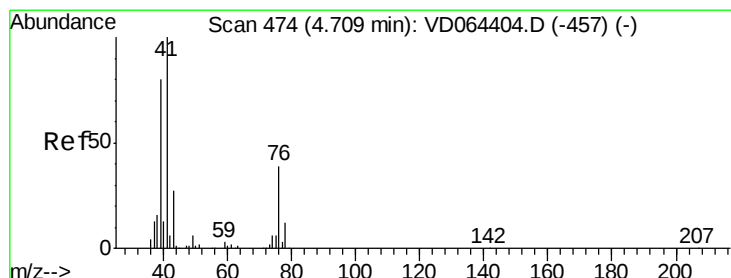
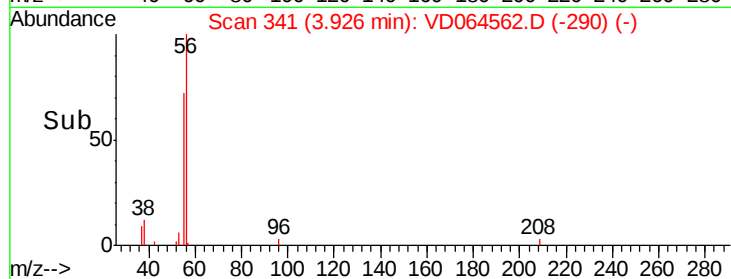
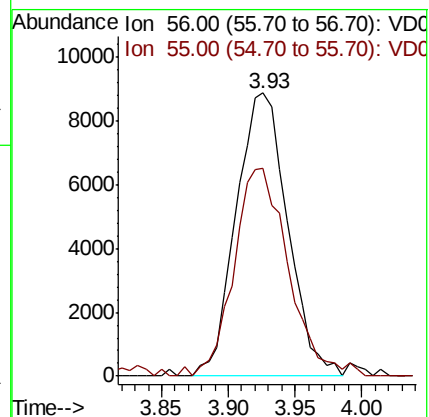
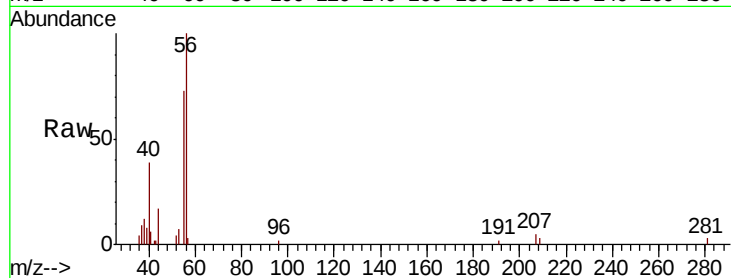
VD1223SBSD01

Tot Ion: 56 Resp: 23790

Ion Ratio Lower Upper

56 100

55 77.8 56.9 85.3



#14

Allyl chloride

Concen: 21.224 ug/l

RT: 4.71 min Scan# 474

Delta R.T. 0.00 min

Lab File: VD064562.D

Acq: 23 Dec 2019 12:14

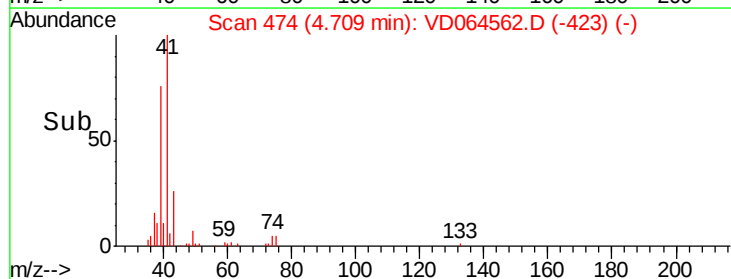
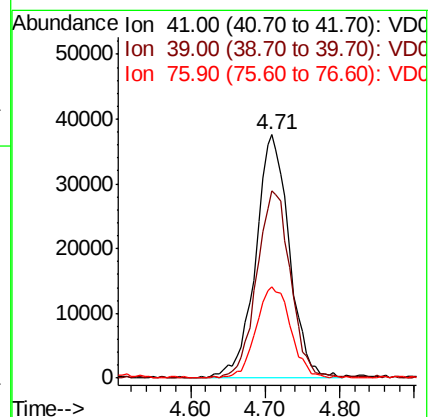
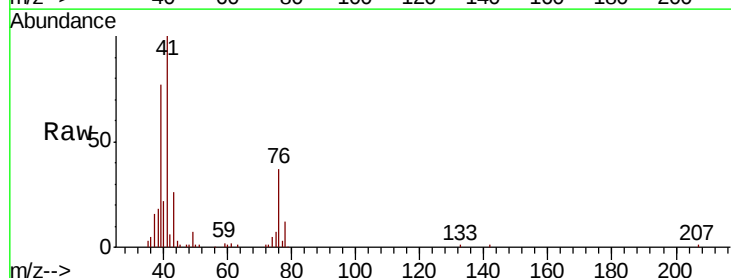
Tgt Ion: 41 Resp: 117814

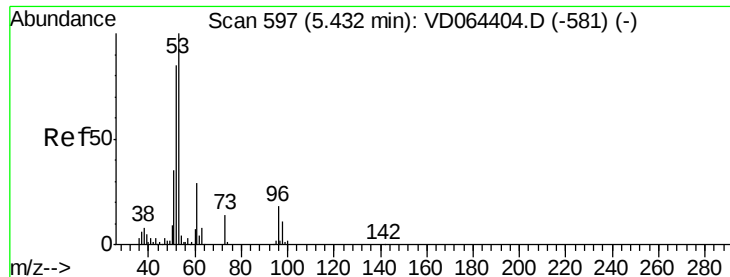
Ion Ratio Lower Upper

41 100

39 76.9 62.1 93.1

76 38.5 29.8 44.8





#15

Acrylonitrile

Concen: 99.093 ug/l

RT: 5.43 min Scan# 597

Delta R.T. 0.00 min

Lab File: VD064562.D

Acq: 23 Dec 2019 12:14

Instrument :

MSVOA_D

ClientSampleId :

VD1223SBS01

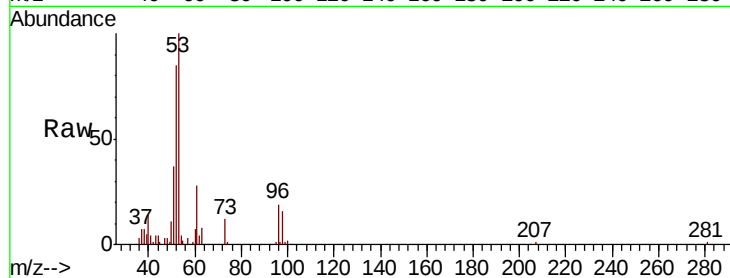
Tot Ion: 53 Resp: 77946

Ion Ratio Lower Upper

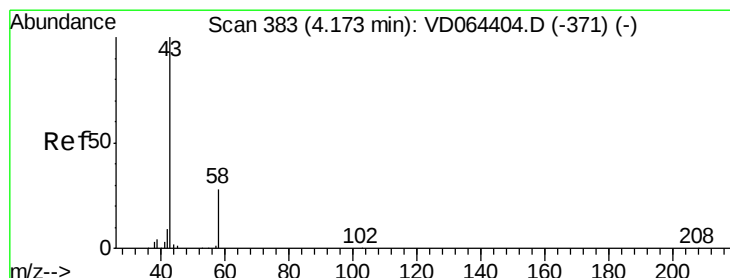
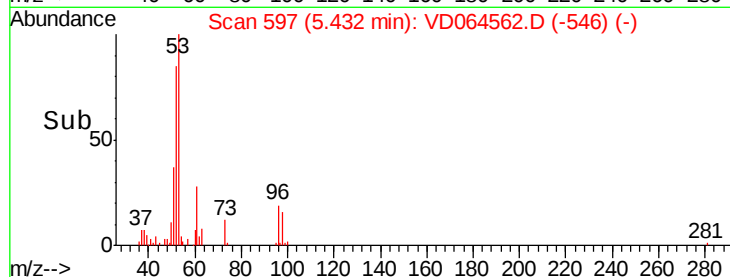
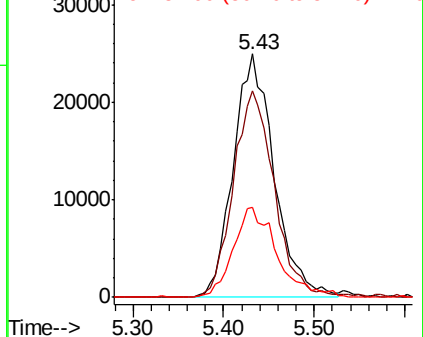
53 100

52 85.7 67.9 101.9

51 39.6 30.6 45.8



Abundance Ion 53.00 (52.70 to 53.70): VDC
Ion 52.00 (51.70 to 52.70): VDC
Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 96.818 ug/l

RT: 4.17 min Scan# 382

Delta R.T. -0.01 min

Lab File: VD064562.D

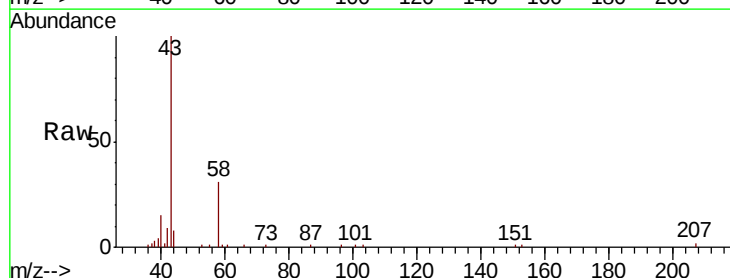
Acq: 23 Dec 2019 12:14

Tgt Ion: 43 Resp: 69883

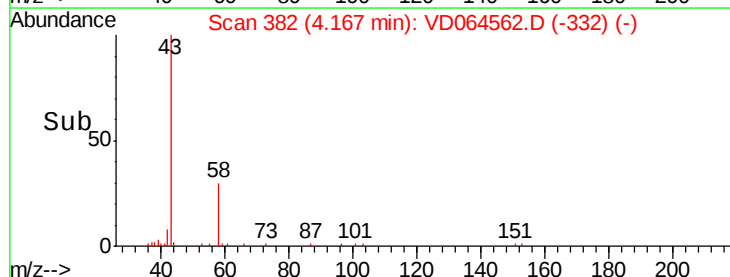
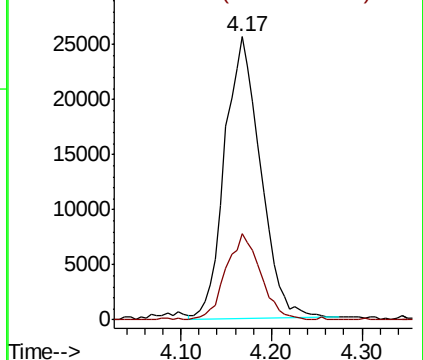
Ion Ratio Lower Upper

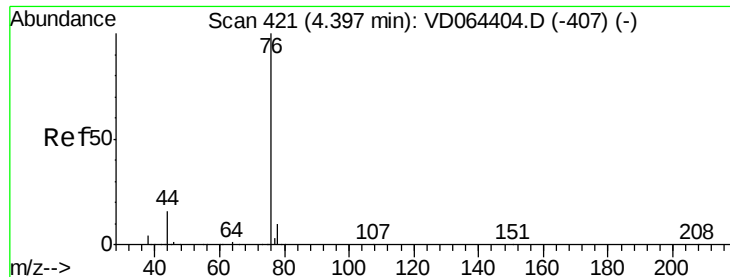
43 100

58 30.9 22.6 33.8



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 58.00 (57.70 to 58.70): VDC

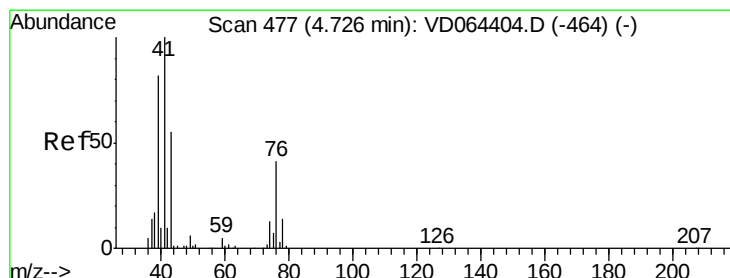
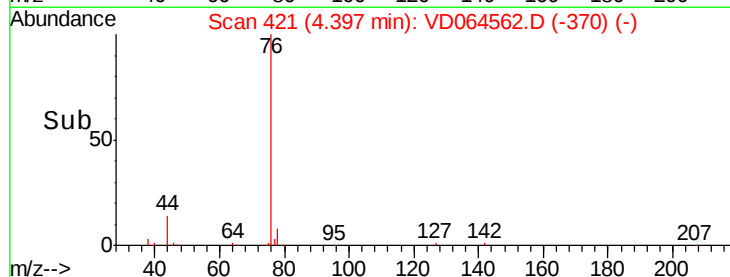
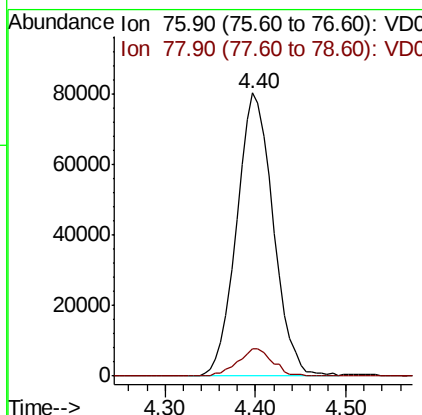
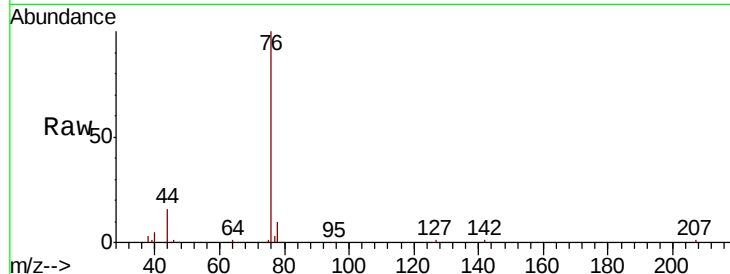




#17
Carbon Disulfide
Concen: 19.995 ug/l
RT: 4.40 min Scan# 421
Delta R.T. 0.00 min
Lab File: VD064562.D
Acq: 23 Dec 2019 12:14

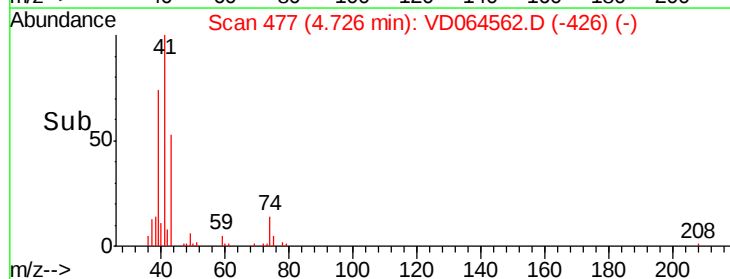
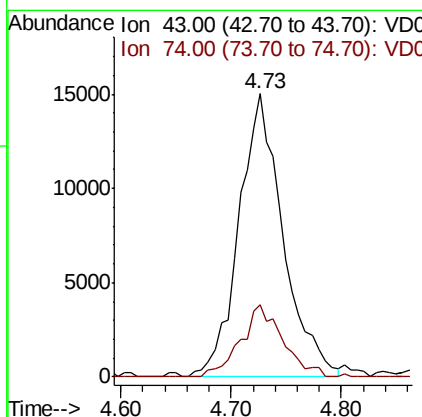
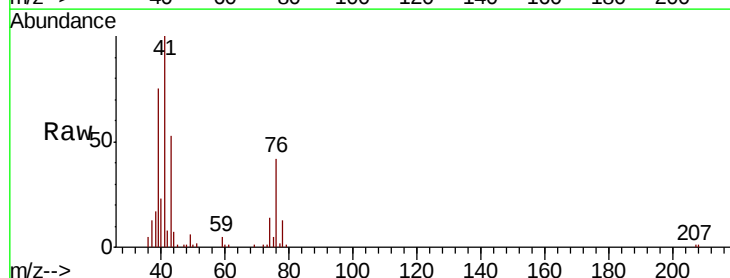
Instrument :
MSVOA_D
ClientSampleId :
VD1223SBS01

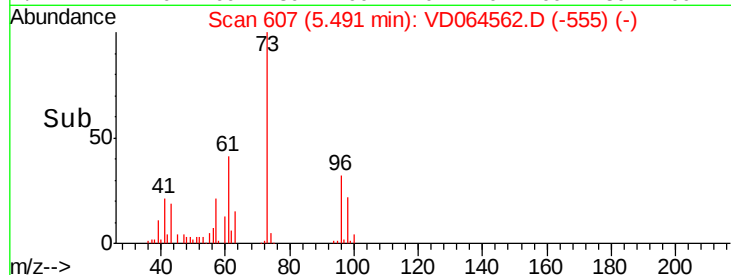
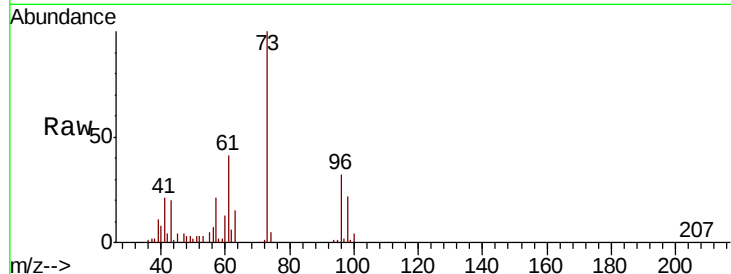
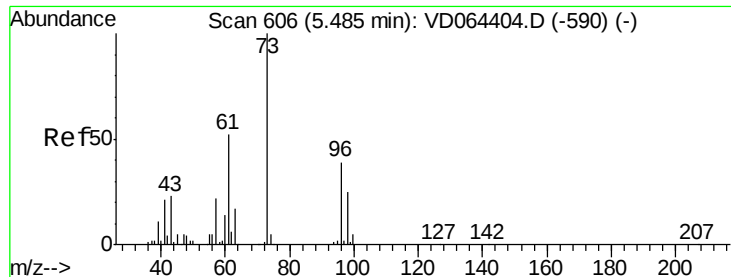
Tot Ion: 76 Resp: 225248
Ion Ratio Lower Upper
76 100
78 9.5 7.8 11.8



#18
Methyl Acetate
Concen: 19.976 ug/l
RT: 4.73 min Scan# 477
Delta R.T. 0.00 min
Lab File: VD064562.D
Acq: 23 Dec 2019 12:14

Tgt Ion: 43 Resp: 42059
Ion Ratio Lower Upper
43 100
74 24.3 19.7 29.5

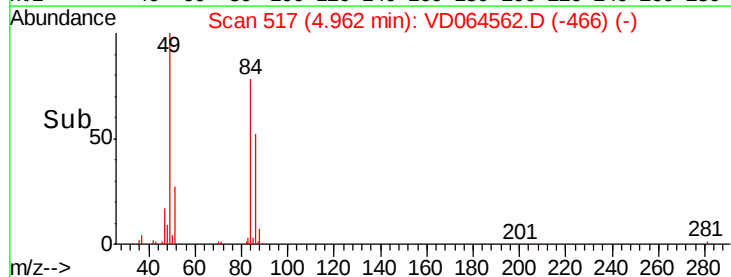
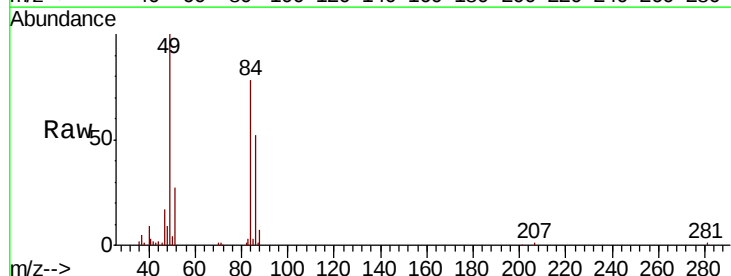
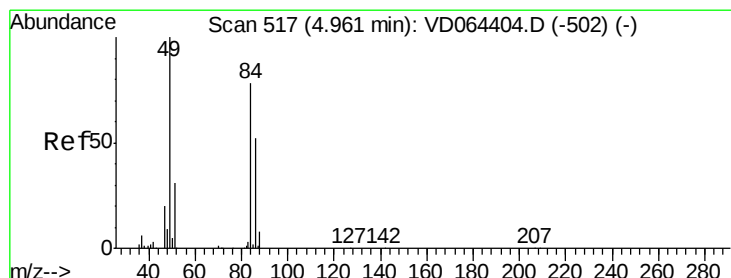
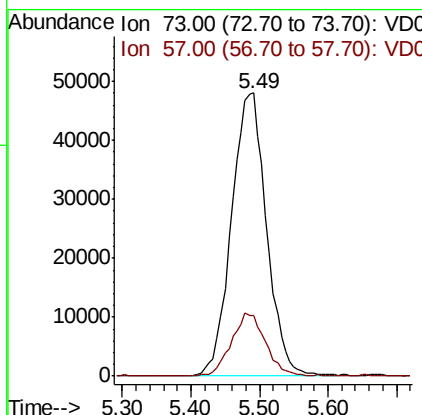




#19
Methvl tert-butvl Ether
Concen: 20.908 ug/l
RT: 5.49 min Scan# 607
Delta R.T. 0.01 min
Lab File: VD064562.D
Acq: 23 Dec 2019 12:14

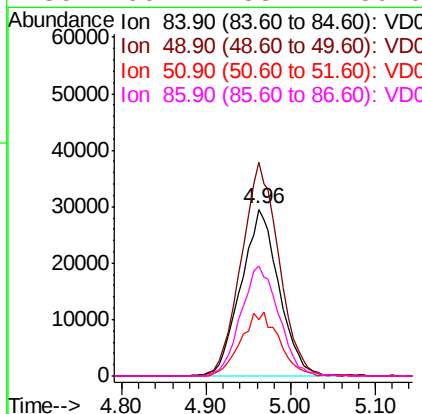
Instrument :
MSVOA_D
ClientSampleId :
VD1223SBS01

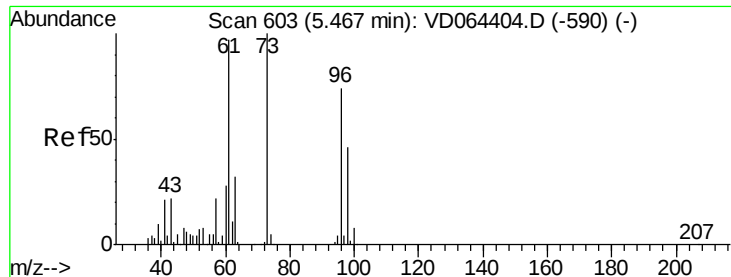
Tot Ion: 73 Resp: 170591
Ion Ratio Lower Upper
73 100
57 21.3 17.6 26.4



#20
Methylene Chloride
Concen: 22.751 ug/l
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD064562.D
Acq: 23 Dec 2019 12:14

Tgt Ion: 84 Resp: 92326
Ion Ratio Lower Upper
84 100
49 128.2 102.6 153.8
51 34.1 32.0 48.0
86 66.4 53.4 80.0





#21

trans-1,2-Dichloroethene

Concen: 20.948 ug/l

RT: 5.47 min Scan# 603

Delta R.T. 0.00 min

Lab File: VD064562.D

Acq: 23 Dec 2019 12:14

Instrument :

MSVOA_D

ClientSampleId :

VD1223SBS01

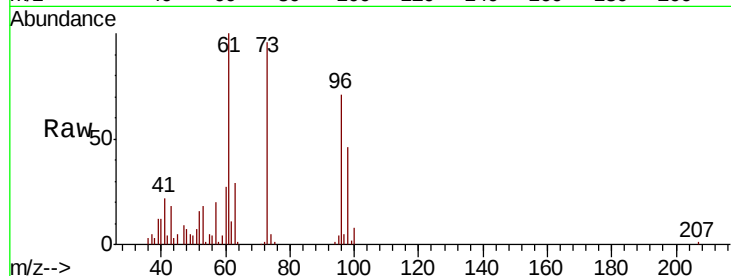
Tot Ion: 96 Resp: 84282

Ion Ratio Lower Upper

96 100

61 139.6 105.8 158.6

98 63.8 50.1 75.1

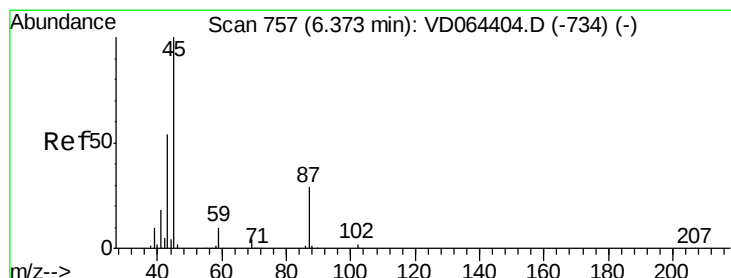
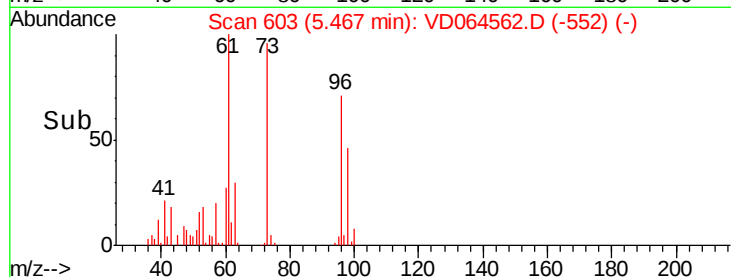
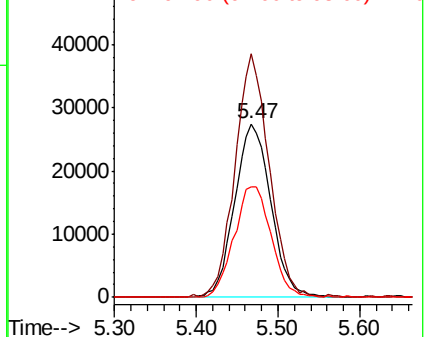


Abundance

Ion 95.90 (95.60 to 96.60): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 97.90 (97.60 to 98.60): VDC



#22

Diisopropyl ether

Concen: 21.322 ug/l

RT: 6.37 min Scan# 756

Delta R.T. -0.01 min

Lab File: VD064562.D

Acq: 23 Dec 2019 12:14

Tgt Ion: 45 Resp: 233652

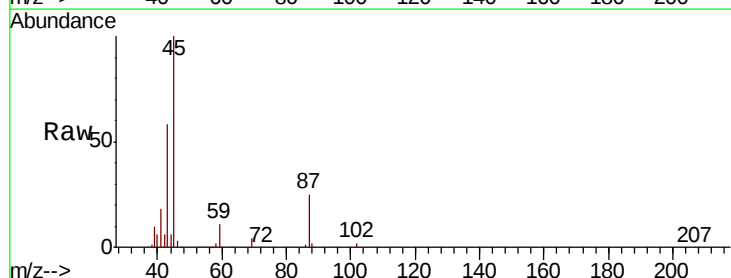
Ion Ratio Lower Upper

45 100

43 57.3 43.1 64.7

87 25.3 23.5 35.3

59 11.2 8.2 12.2



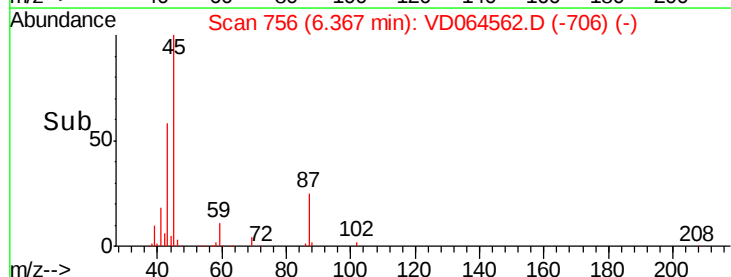
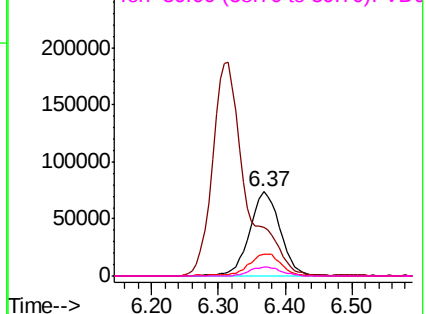
Abundance

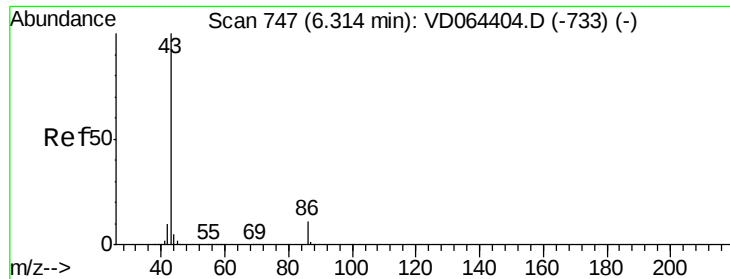
Ion 45.00 (44.70 to 45.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 87.00 (86.70 to 87.70): VDC

Ion 59.00 (58.70 to 59.70): VDC





#23

Vinyl Acetate

Concen: 101.673 ug/l

RT: 6.31 min Scan# 747

Delta R.T. 0.00 min

Lab File: VD064562.D

Acq: 23 Dec 2019 12:14

Instrument :

MSVOA_D

ClientSampleId :

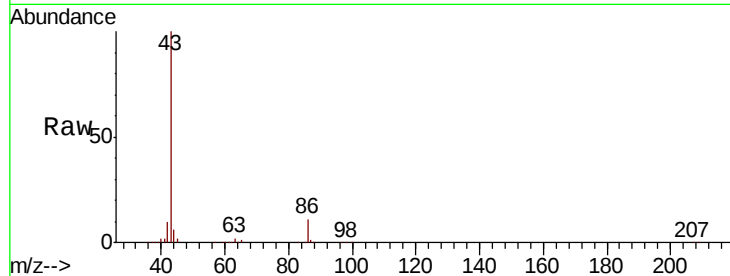
VD1223SBS01

Tot Ion: 43 Resp: 656836

Ion Ratio Lower Upper

43 100

86 10.6 8.9 13.3



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC

6.31

200000

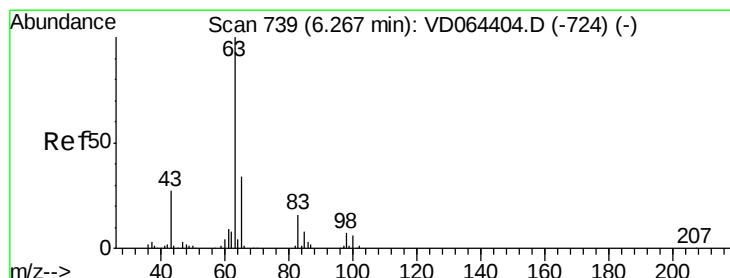
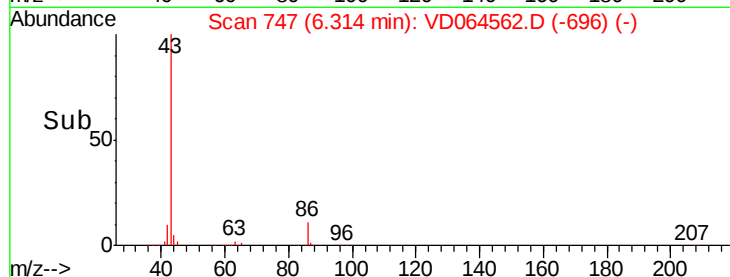
150000

100000

50000

0

Time-->



#24

1,1-Dichloroethane

Concen: 21.745 ug/l

RT: 6.27 min Scan# 739

Delta R.T. 0.00 min

Lab File: VD064562.D

Acq: 23 Dec 2019 12:14

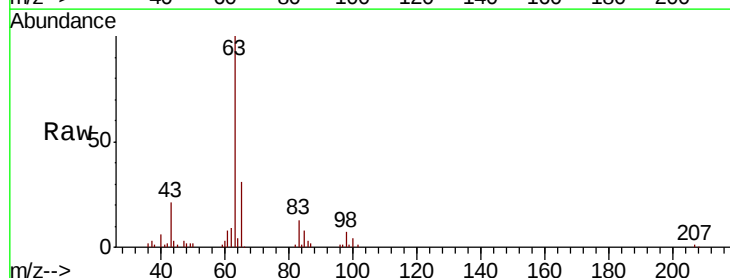
Tgt Ion: 63 Resp: 143305

Ion Ratio Lower Upper

63 100

98 6.9 3.6 10.9

100 4.2 2.9 8.6



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC

6.27

60000

50000

40000

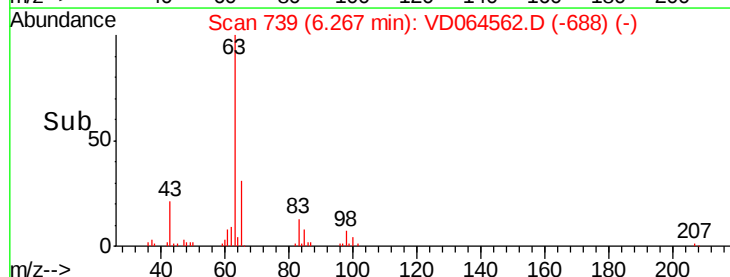
30000

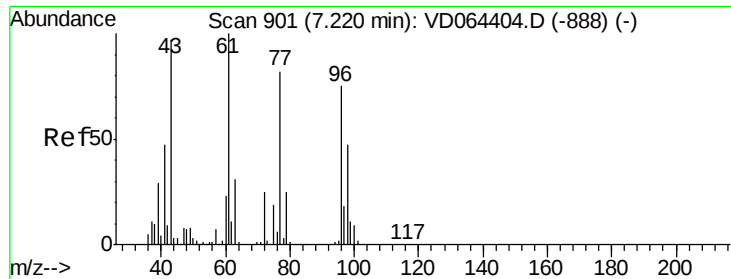
20000

10000

0

Time-->





#25

2-Butanone

Concen: 97.367 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.00 min

Lab File: VD064562.D

Acq: 23 Dec 2019 12:14

Instrument :

MSVOA_D

ClientSampleId :

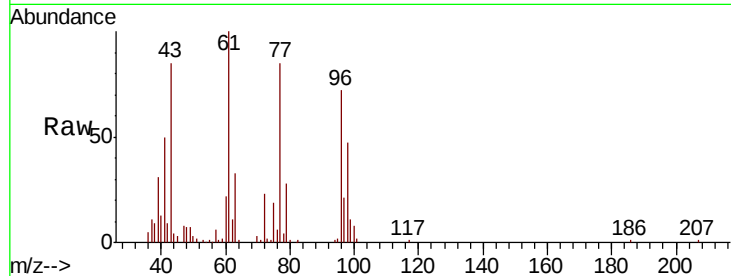
VD1223SBSD01

Tot Ion: 43 Resp: 99390

Ion Ratio Lower Upper

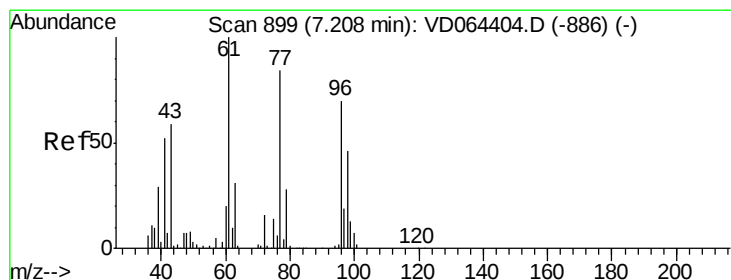
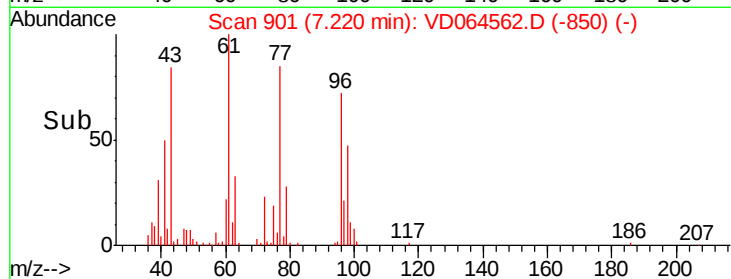
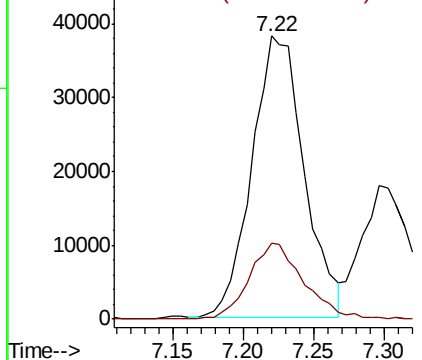
43 100

72 26.8 21.0 31.4



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 22.816 ug/l

RT: 7.21 min Scan# 900

Delta R.T. 0.01 min

Lab File: VD064562.D

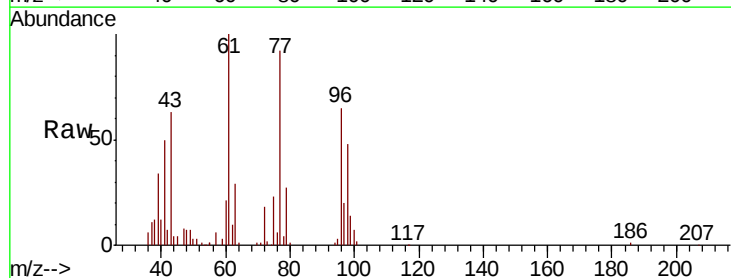
Acq: 23 Dec 2019 12:14

Tgt Ion: 77 Resp: 130760

Ion Ratio Lower Upper

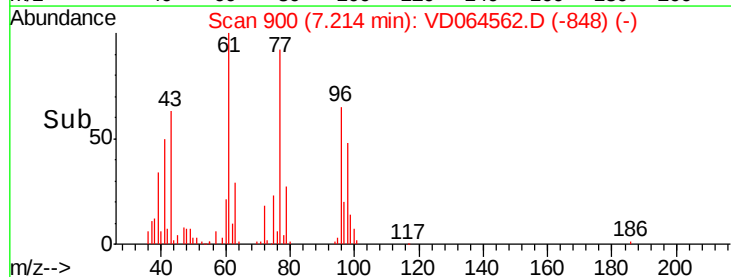
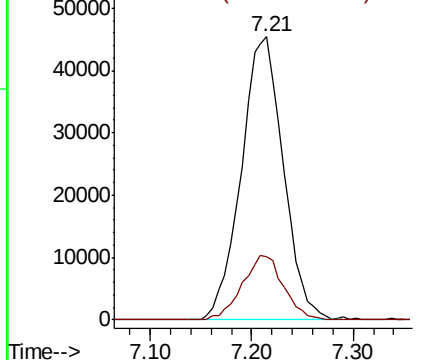
77 100

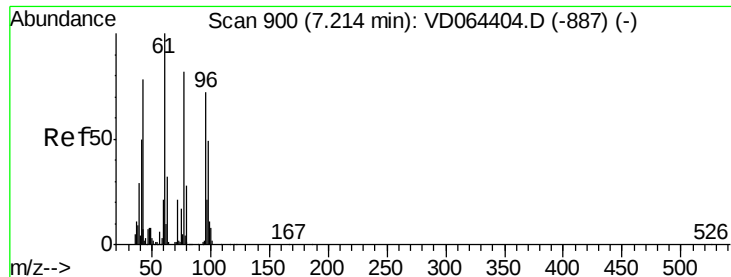
97 22.3 11.6 34.7



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC



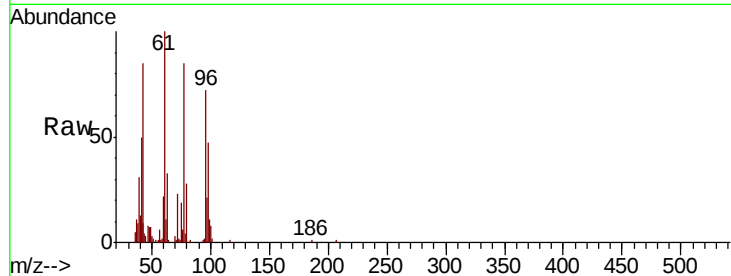


#27

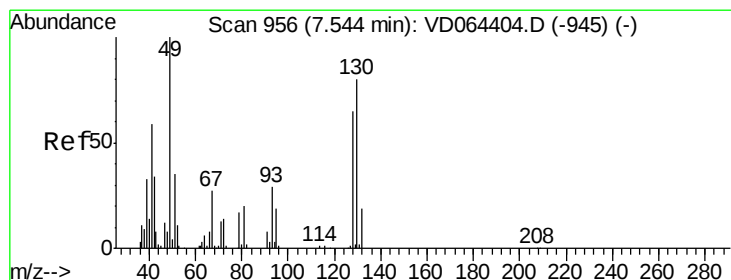
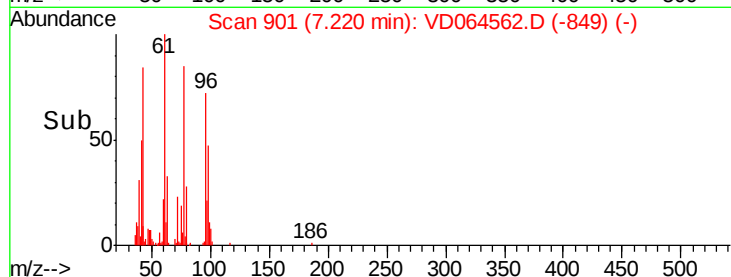
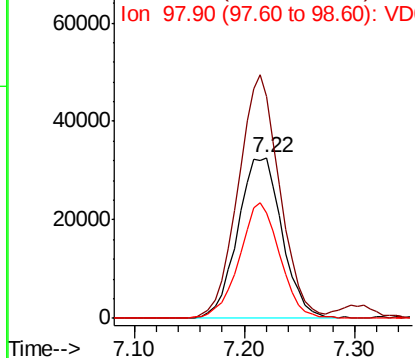
cis-1,2-Dichloroethene
 Concen: 20.876 ug/l
 RT: 7.22 min Scan# 901
 Delta R.T. 0.01 min
 Lab File: VD064562.D
 Acq: 23 Dec 2019 12:14

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1223SBSD01

Tot Ion: 96 Resp: 91569
 Ion Ratio Lower Upper
 96 100
 61 142.4 0.0 279.6
 98 65.9 0.0 129.2



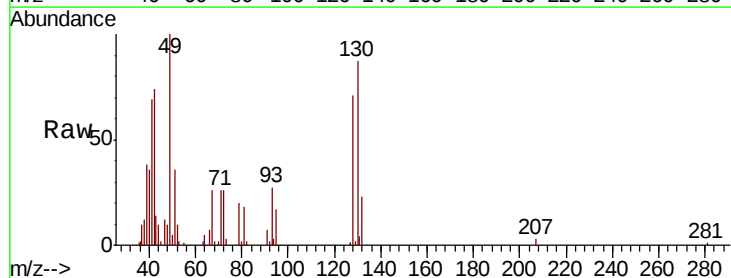
Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.90 (60.60 to 61.60): VDC
 Ion 97.90 (97.60 to 98.60): VDC



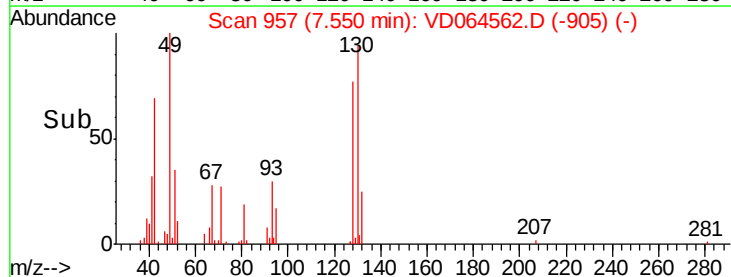
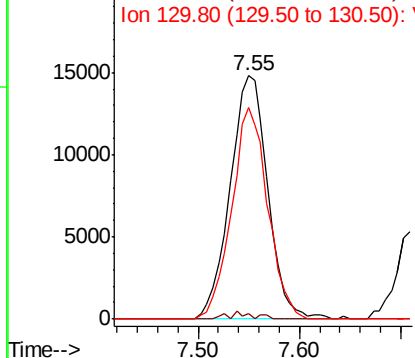
#28

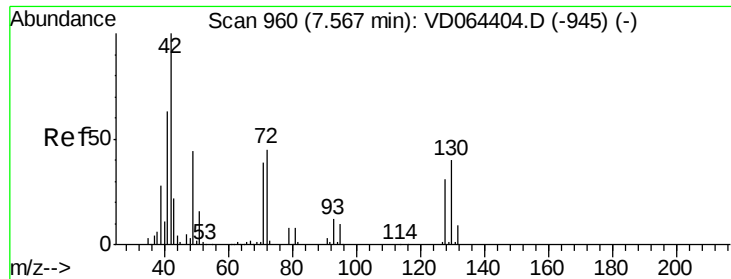
Bromochloromethane
 Concen: 16.954 ug/l
 RT: 7.55 min Scan# 957
 Delta R.T. 0.01 min
 Lab File: VD064562.D
 Acq: 23 Dec 2019 12:14

Tgt Ion: 49 Resp: 38184
 Ion Ratio Lower Upper
 49 100
 129 1.0 0.0 4.4
 130 82.9 67.4 101.0



Abundance Ion 48.90 (48.60 to 49.60): VDC
 Ion 128.80 (128.50 to 129.50): VDC
 Ion 129.80 (129.50 to 130.50): VDC

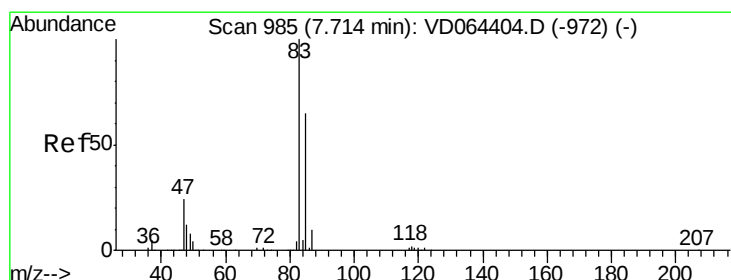
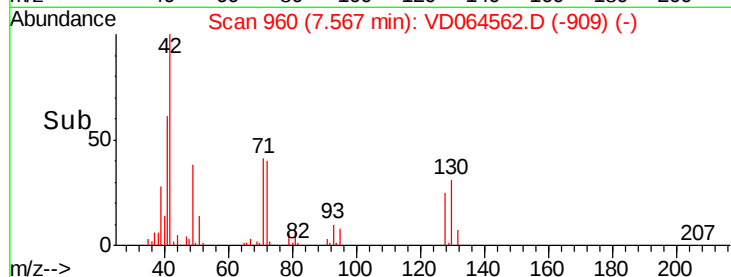
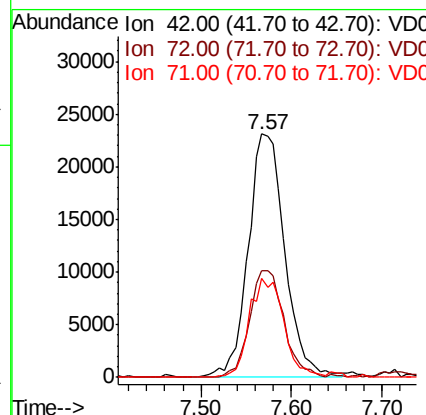
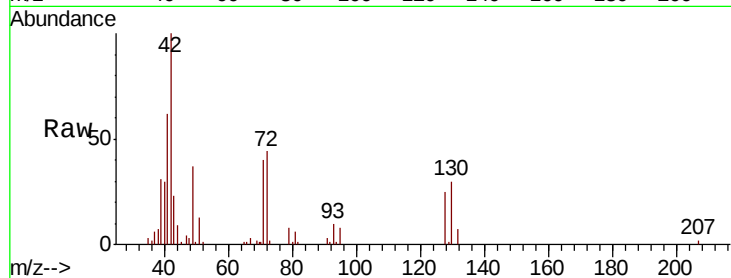




#29
Tetrahydrofuran
Concen: 99.991 ug/l
RT: 7.57 min Scan# 960
Delta R.T. 0.00 min
Lab File: VD064562.D
Acq: 23 Dec 2019 12:14

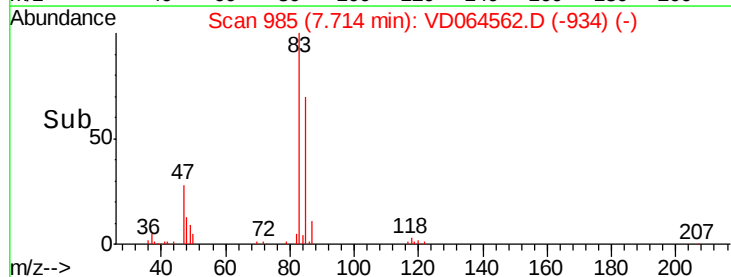
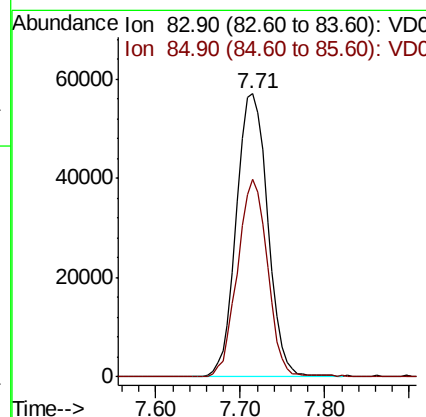
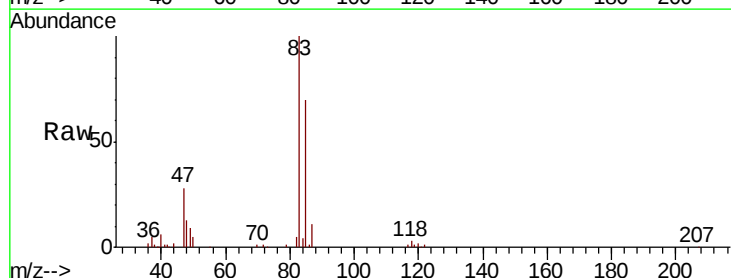
Instrument :
MSVOA_D
ClientSampleId :
VD1223SBSD01

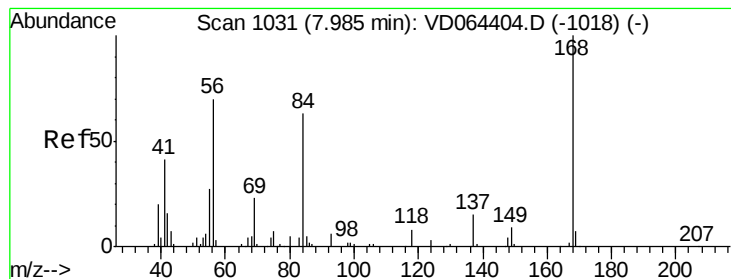
Tot Ion: 42 Resp: 64938
Ion Ratio Lower Upper
42 100
72 41.0 35.8 53.8
71 38.3 32.7 49.1



#30
Chloroform
Concen: 21.516 ug/l
RT: 7.71 min Scan# 985
Delta R.T. 0.00 min
Lab File: VD064562.D
Acq: 23 Dec 2019 12:14

Tgt Ion: 83 Resp: 146851
Ion Ratio Lower Upper
83 100
85 69.8 51.8 77.6





#31

Cyclohexane

Concen: 20.858 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VD064562.D

Acq: 23 Dec 2019 12:14

Instrument :

MSVOA_D

ClientSampleId :

VD1223SBS01

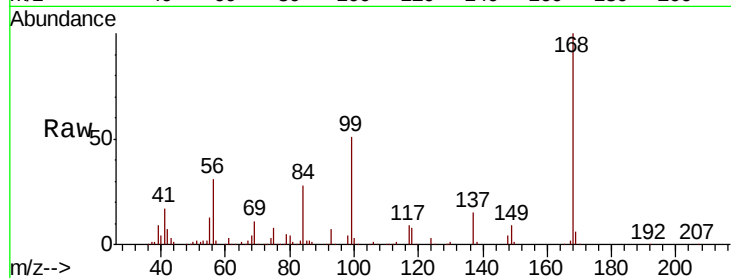
Tot Ion: 56 Resp: 135395

Ion Ratio Lower Upper

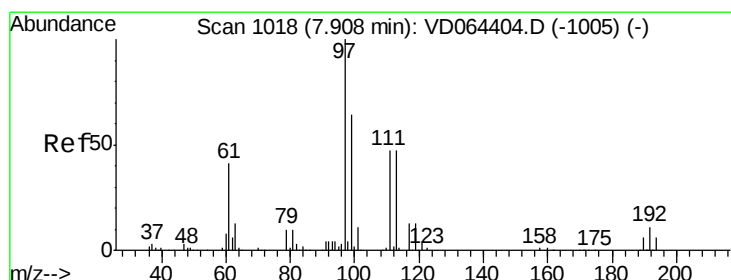
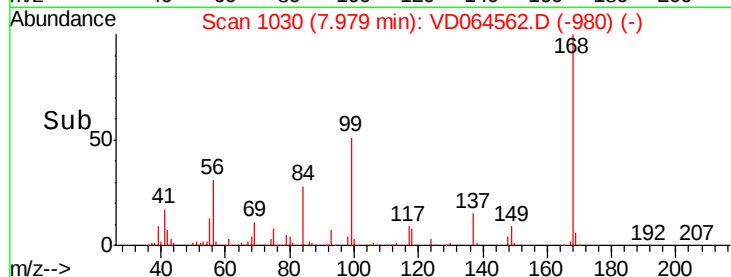
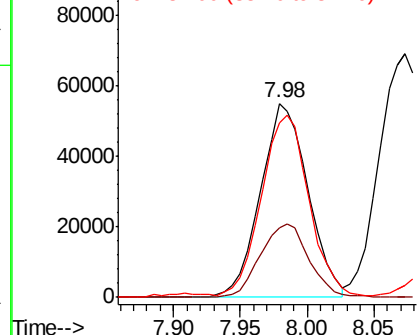
56 100

69 35.7 26.2 39.4

84 88.6 70.3 105.5



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



#32

1,1,1-Trichloroethane

Concen: 22.351 ug/l

RT: 7.90 min Scan# 1017

Delta R.T. -0.01 min

Lab File: VD064562.D

Acq: 23 Dec 2019 12:14

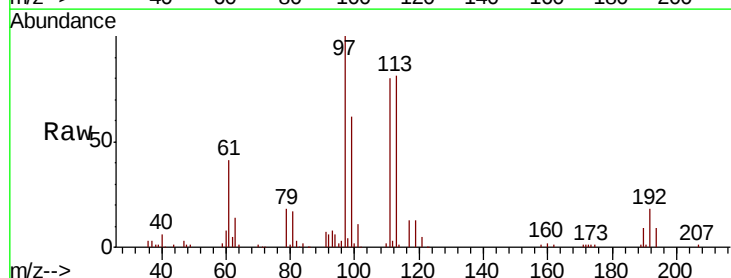
Tgt Ion: 97 Resp: 141428

Ion Ratio Lower Upper

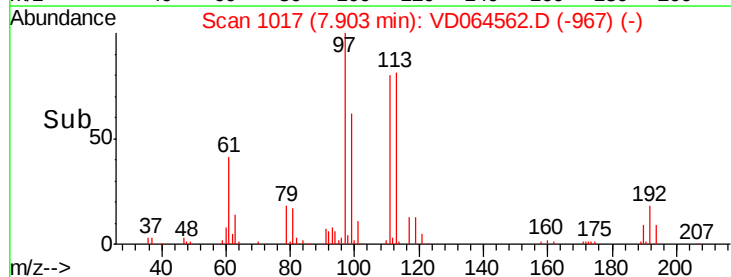
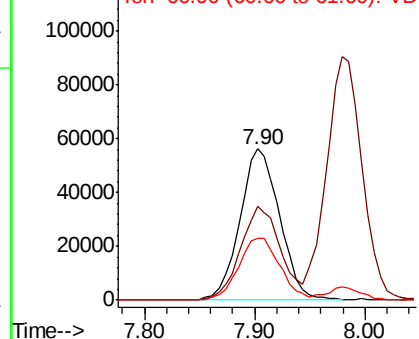
97 100

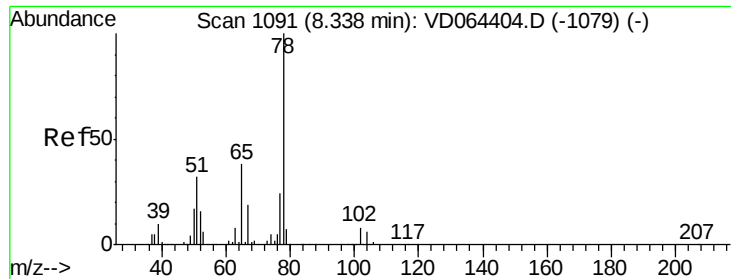
99 62.7 51.4 77.2

61 42.9 35.0 52.4



Abundance Ion 96.90 (96.60 to 97.60): VDC
Ion 98.90 (98.60 to 99.60): VDC
Ion 60.90 (60.60 to 61.60): VDC

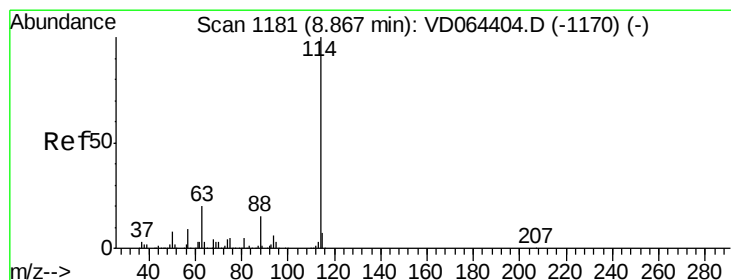
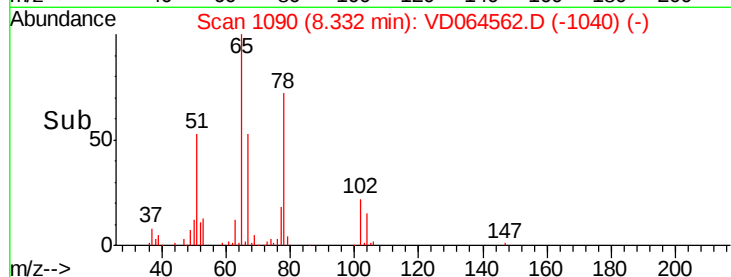
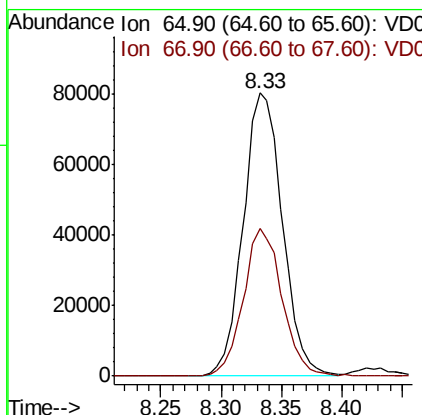
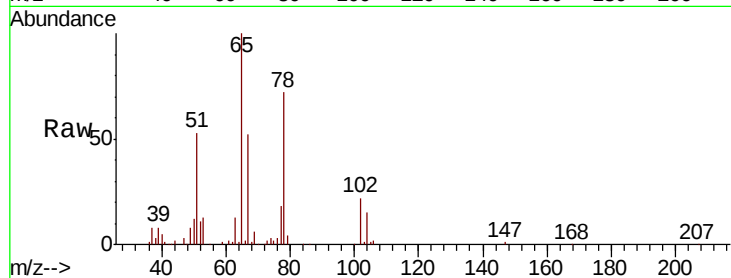




#33
 1,2-Dichloroethane-d4
 Concen: 51.043 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. -0.01 min
 Lab File: VD064562.D
 Acq: 23 Dec 2019 12:14

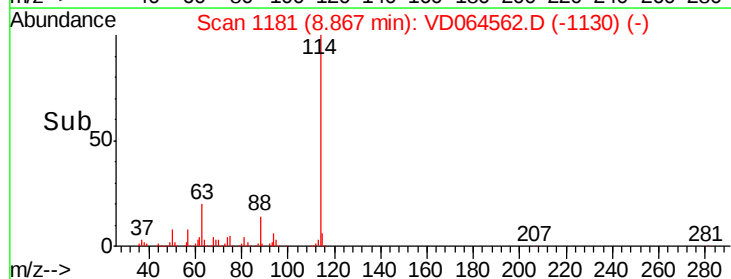
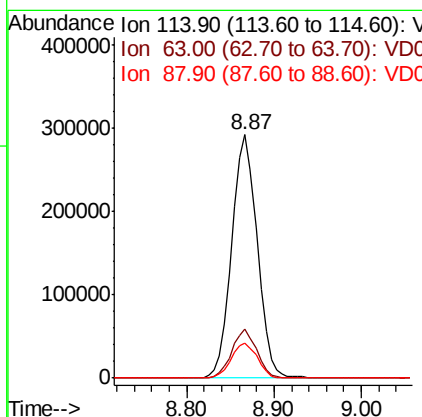
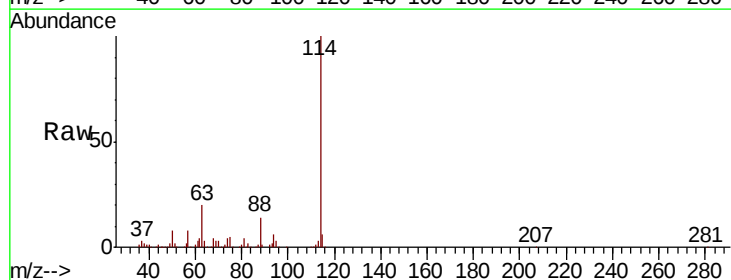
Instrument :
 MSVOA_D
 ClientSampleId :
 VD1223SBSD01

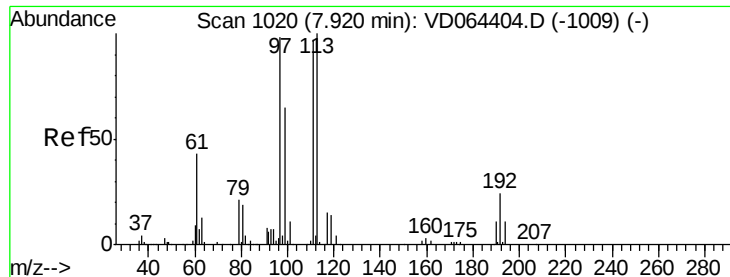
Tot Ion: 65 Resp: 182317
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 102.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064562.D
 Acq: 23 Dec 2019 12:14

Tgt Ion: 114 Resp: 578473
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 40.0
 88 14.5 0.0 29.2



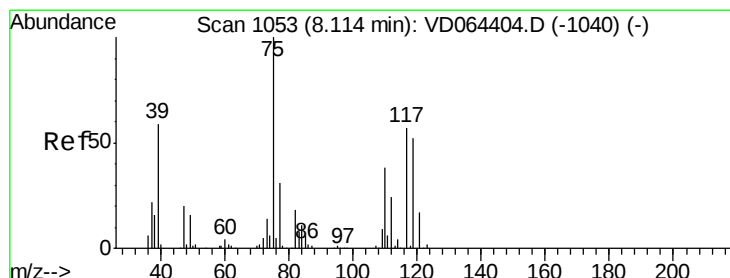
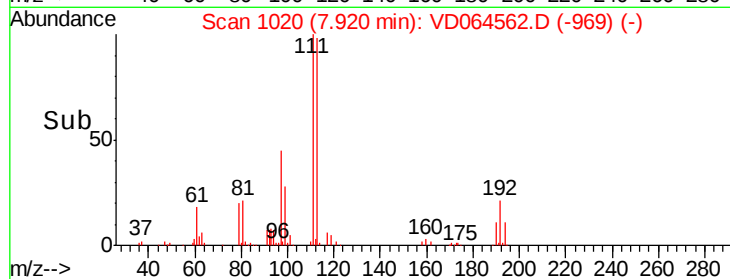
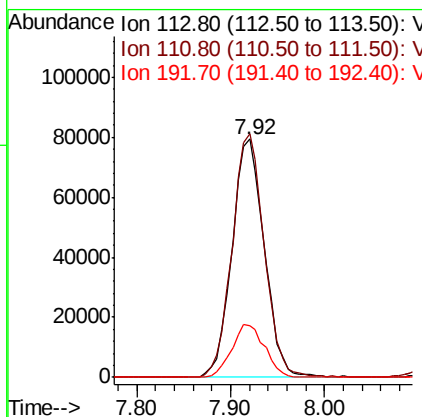
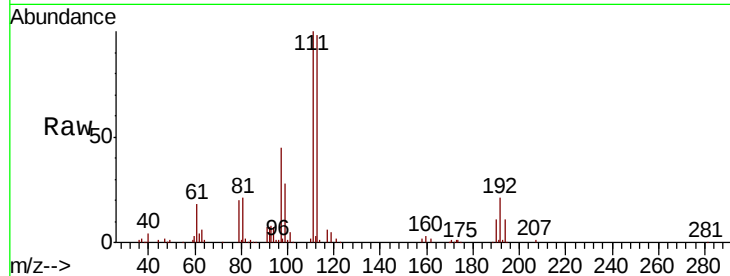


#35
Dibromofluoromethane
Concen: 51.836 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. 0.00 min
Lab File: VD064562.D
Acq: 23 Dec 2019 12:14

Instrument :
MSVOA_D
ClientSampleId :
VD1223SBSD01

Tot Ion:113 Resp: 188924

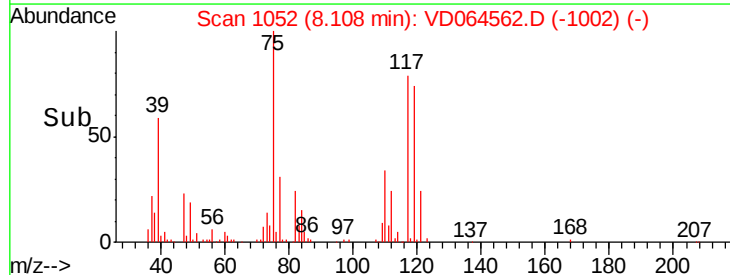
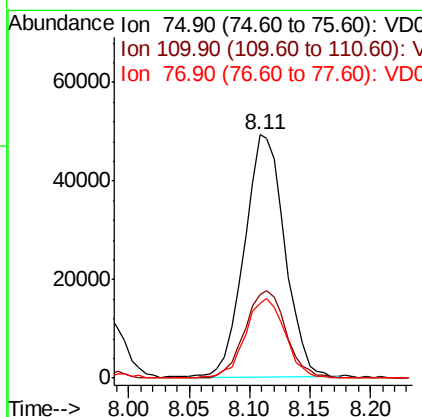
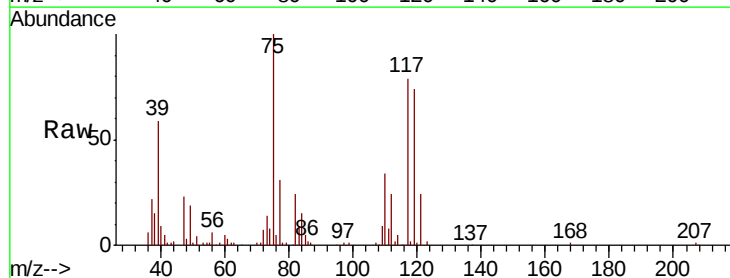
Ion	Ratio	Lower	Upper
113	100		
111	101.9	79.4	119.2
192	22.6	18.6	28.0

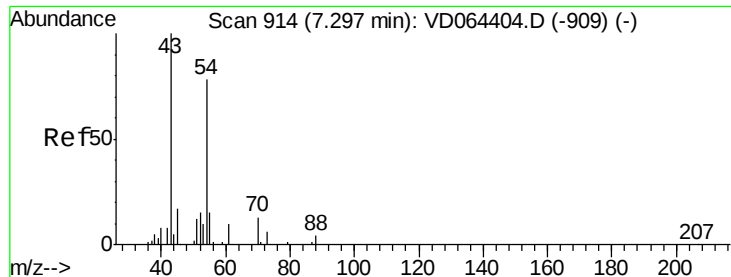


#36
1,1-Dichloropropene
Concen: 20.943 ug/l
RT: 8.11 min Scan# 1052
Delta R.T. -0.01 min
Lab File: VD064562.D
Acq: 23 Dec 2019 12:14

Tgt Ion: 75 Resp: 114590

Ion	Ratio	Lower	Upper
75	100		
110	36.9	18.6	55.8
77	32.6	25.0	37.4

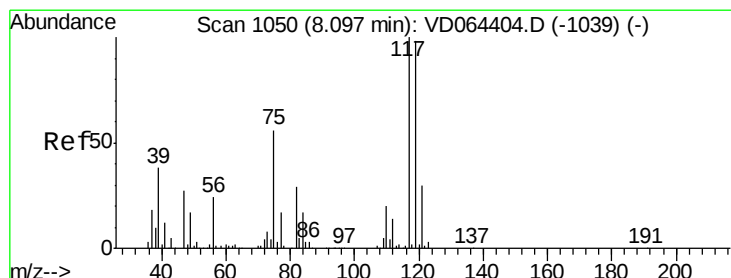
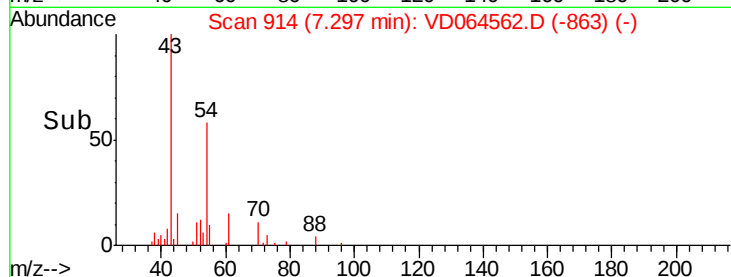
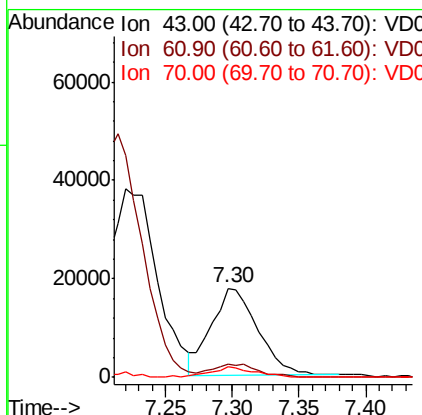
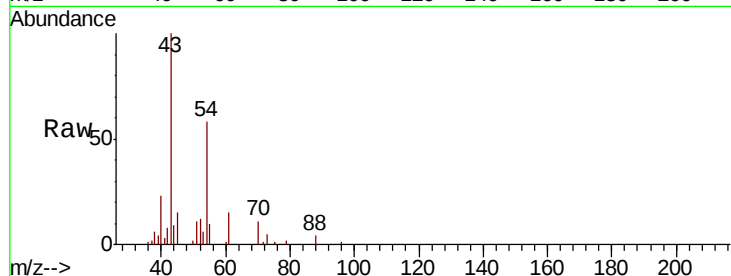




#37
Ethyl Acetate
Concen: 18.609 ug/l
RT: 7.30 min Scan# 914
Delta R.T. 0.00 min
Lab File: VD064562.D
Acq: 23 Dec 2019 12:14

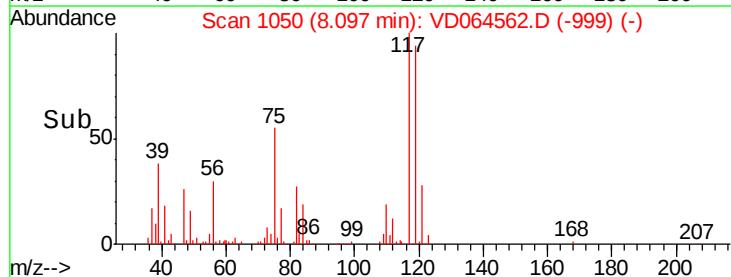
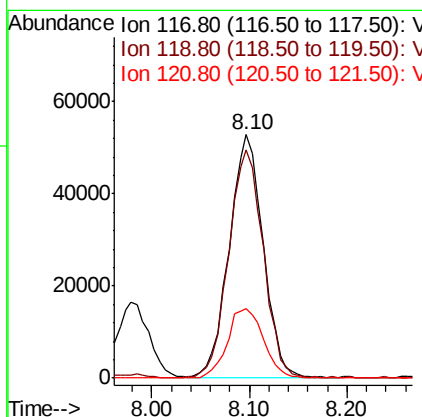
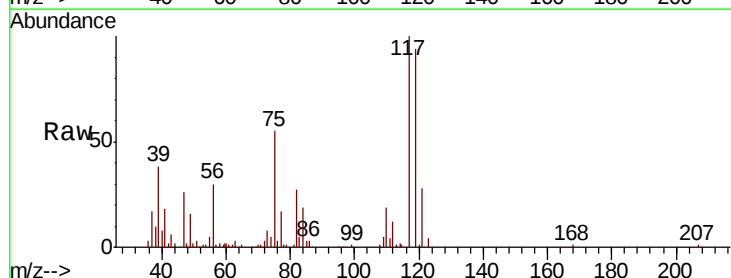
Instrument :
MSVOA_D
ClientSampleId :
VD1223SBS01

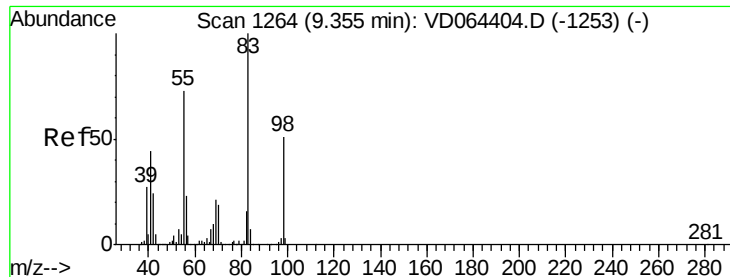
Tot Ion: 43 Resp: 43204
Ion Ratio Lower Upper
43 100
61 15.5 10.9 16.3
70 11.4 8.3 12.5



#38
Carbon Tetrachloride
Concen: 22.130 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. 0.00 min
Lab File: VD064562.D
Acq: 23 Dec 2019 12:14

Tgt Ion: 117 Resp: 127797
Ion Ratio Lower Upper
117 100
119 94.0 78.8 118.2
121 28.4 24.2 36.2

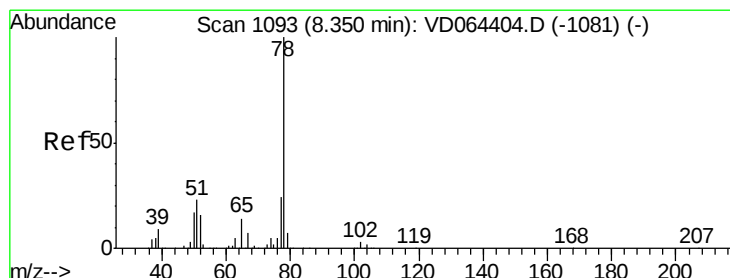
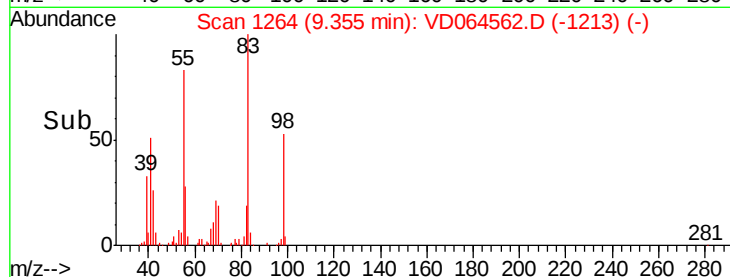
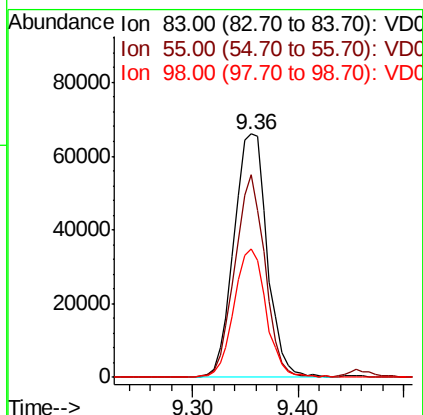
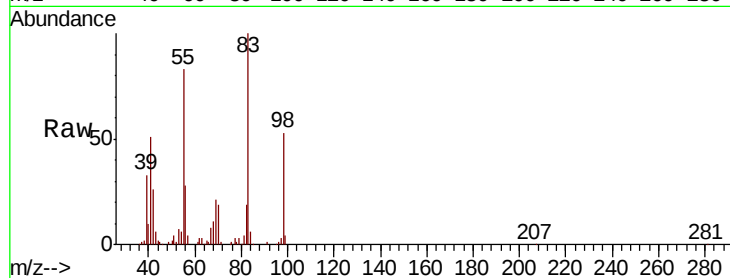




#39
Methvlcvclohexane
Concen: 21.220 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VD064562.D
Acq: 23 Dec 2019 12:14

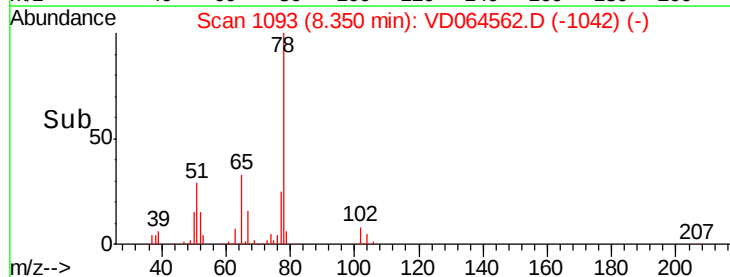
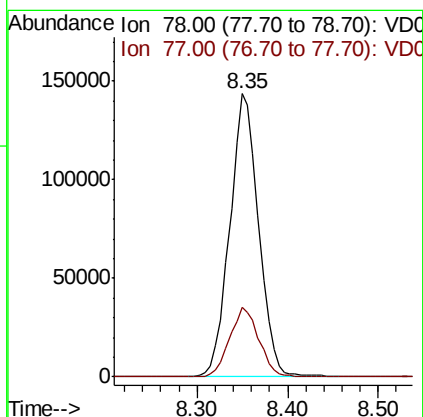
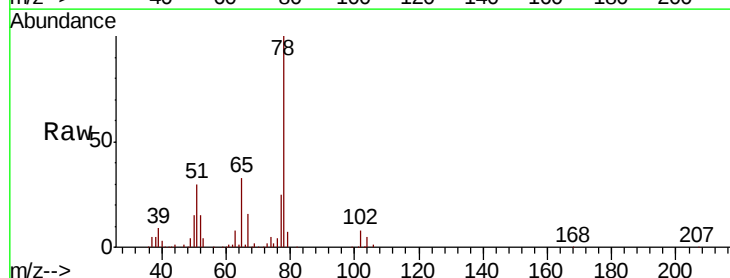
Instrument :
MSVOA_D
ClientSampleId :
VD1223SBSD01

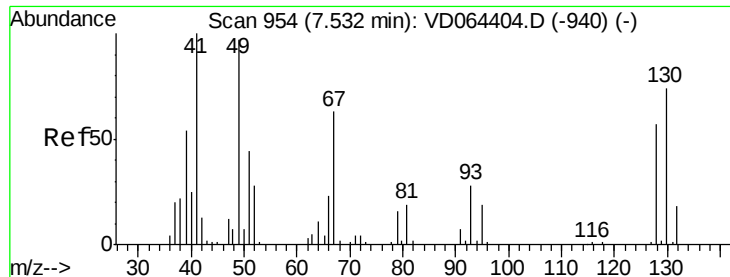
Tot Ion: 83 Resp: 144024
Ion Ratio Lower Upper
83 100
55 83.1 58.6 87.8
98 52.8 40.9 61.3



#40
Benzene
Concen: 20.876 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. 0.00 min
Lab File: VD064562.D
Acq: 23 Dec 2019 12:14

Tgt Ion: 78 Resp: 317247
Ion Ratio Lower Upper
78 100
77 24.7 19.6 29.4

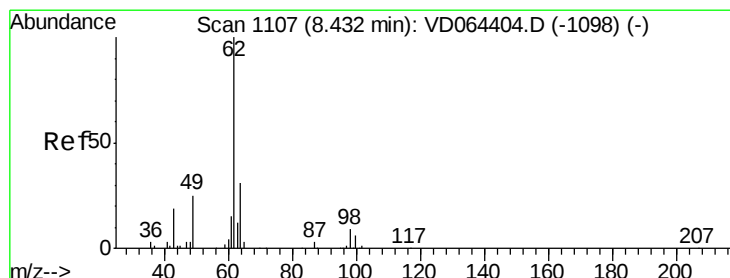
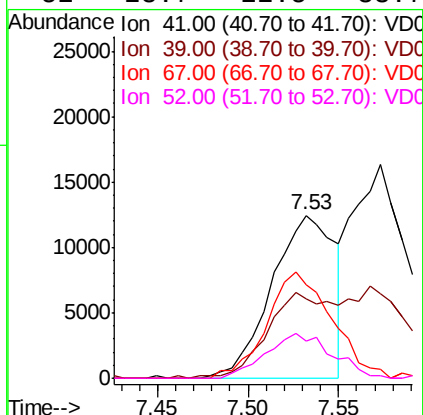
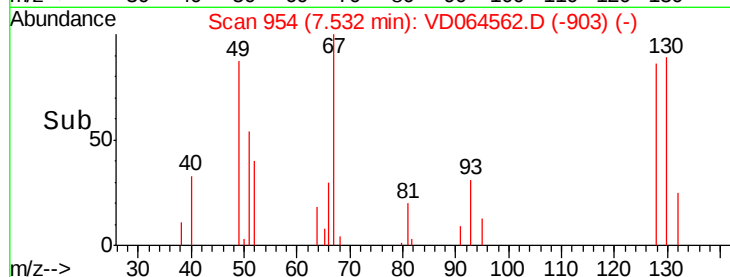
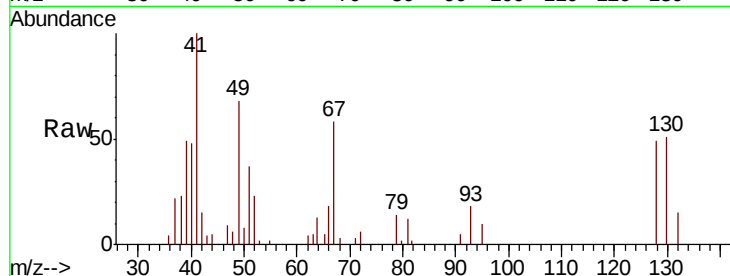




#41
Methacrylonitrile
Concen: 22.708 ug/l
RT: 7.53 min Scan# 954
Delta R.T. 0.00 min
Lab File: VD064562.D
Acq: 23 Dec 2019 12:14

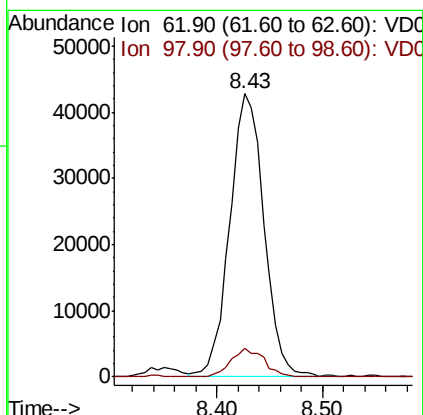
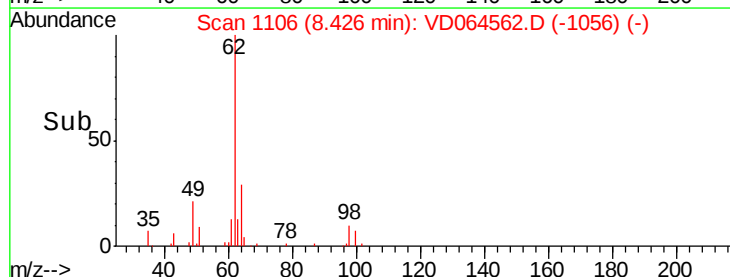
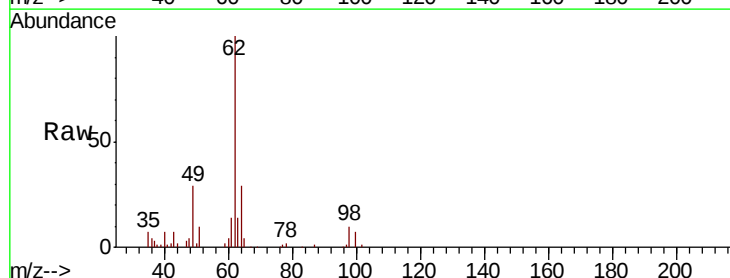
Instrument :
MSVOA_D
ClientSampleId :
VD1223SBS01

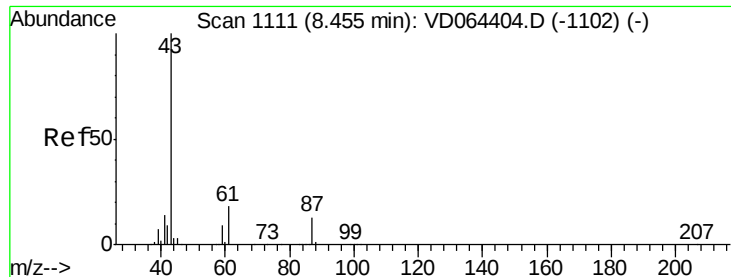
Tot Ion:	41	Resp:	30235
Ion	Ratio	Lower	Upper
41	100		
39	55.5	44.6	67.0
67	67.6	50.9	76.3
52	28.7	22.5	33.7



#42
1,2-Dichloroethane
Concen: 21.673 ug/l
RT: 8.43 min Scan# 1106
Delta R.T. -0.01 min
Lab File: VD064562.D
Acq: 23 Dec 2019 12:14

Tgt Ion:	62	Resp:	96048
Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	20.6





#43

Isopropyl Acetate

Concen: 20.522 ug/l

RT: 8.46 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VD064562.D

Acq: 23 Dec 2019 12:14

Instrument :

MSVOA_D

ClientSampleId :

VD1223SBS01

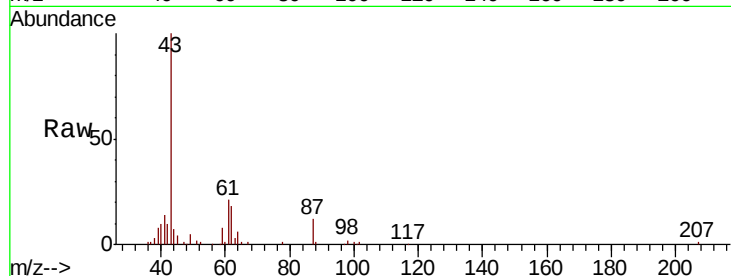
Tot Ion: 43 Resp: 93682

Ion Ratio Lower Upper

43 100

61 29.9 24.0 36.0

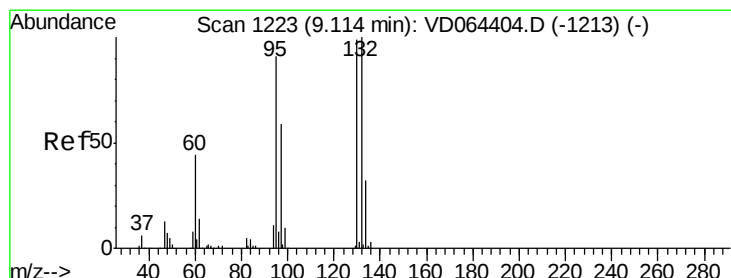
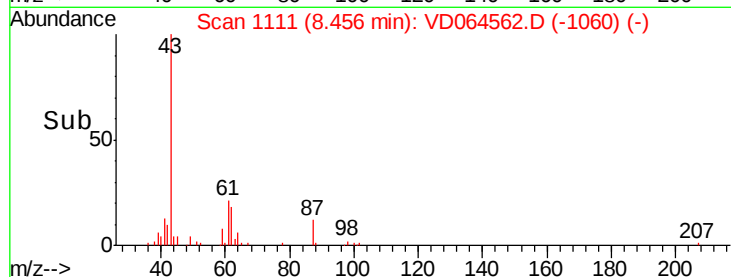
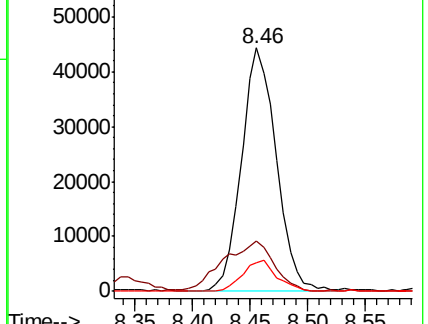
87 12.5 10.6 15.8



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 61.00 (60.70 to 61.70): VDC

Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 20.809 ug/l

RT: 9.11 min Scan# 1223

Delta R.T. 0.00 min

Lab File: VD064562.D

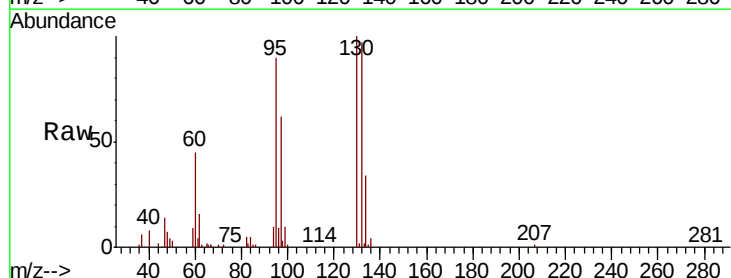
Acq: 23 Dec 2019 12:14

Tgt Ion:130 Resp: 95258

Ion Ratio Lower Upper

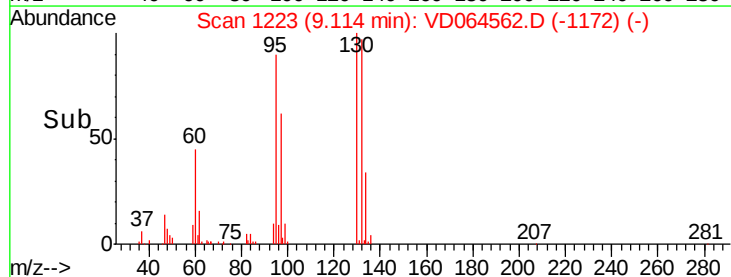
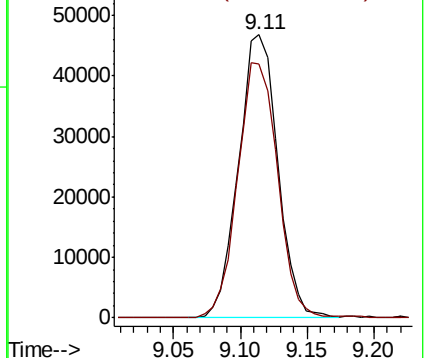
130 100

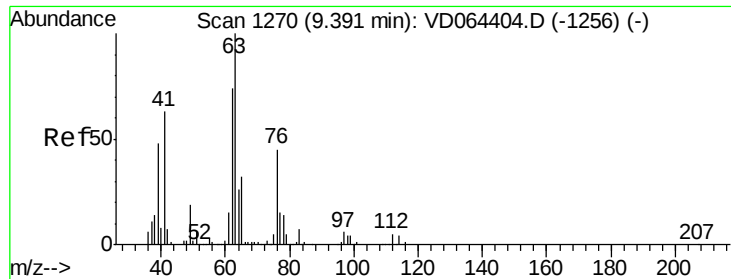
95 89.8 0.0 184.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC

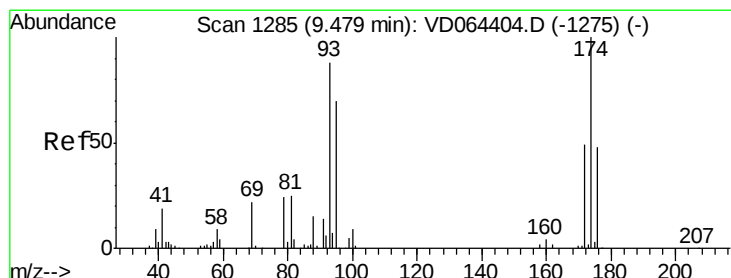
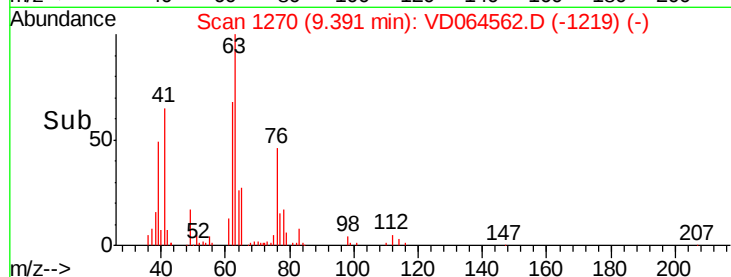
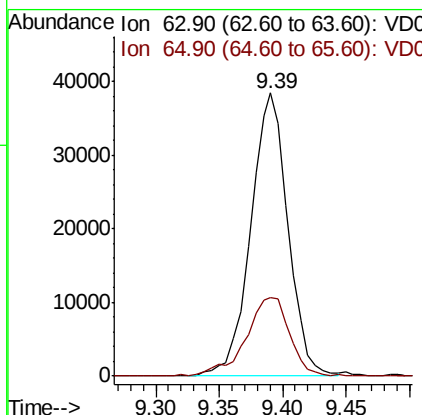
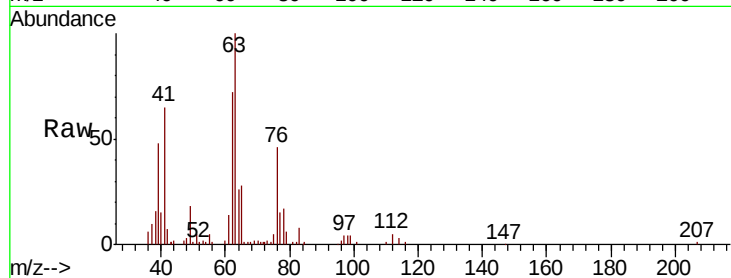




#45
 1,2-Dichloropropane
 Concen: 21.541 ug/l
 RT: 9.39 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VD064562.D
 Acq: 23 Dec 2019 12:14

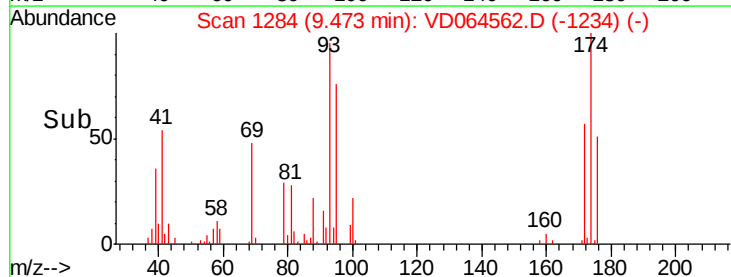
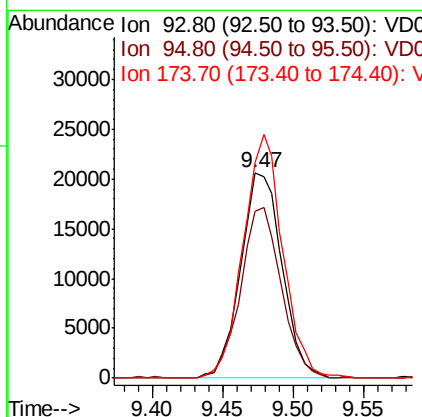
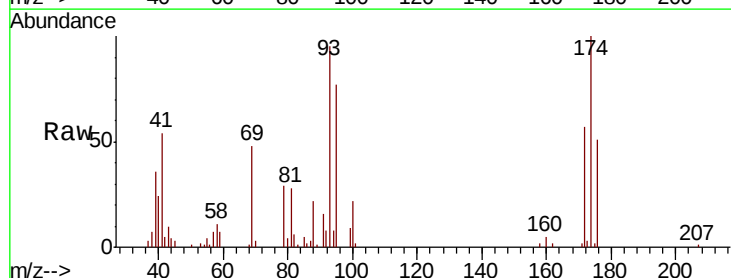
Instrument :
 MSVOA_D
 ClientSampleId :
 VD1223SBSD01

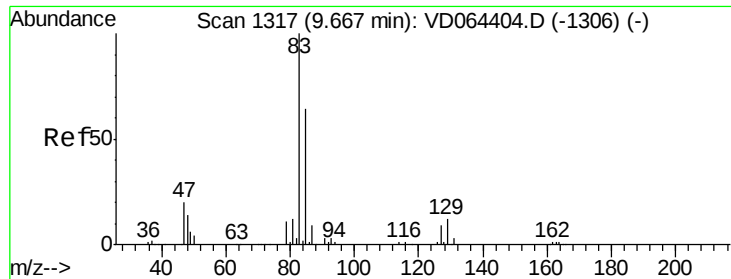
Tot Ion: 63 Resp: 78291
 Ion Ratio Lower Upper
 63 100
 65 27.8 25.4 38.0



#46
 Dibromomethane
 Concen: 20.651 ug/l
 RT: 9.47 min Scan# 1284
 Delta R.T. -0.01 min
 Lab File: VD064562.D
 Acq: 23 Dec 2019 12:14

Tgt Ion: 93 Resp: 42361
 Ion Ratio Lower Upper
 93 100
 95 81.5 66.7 100.1
 174 113.7 92.3 138.5

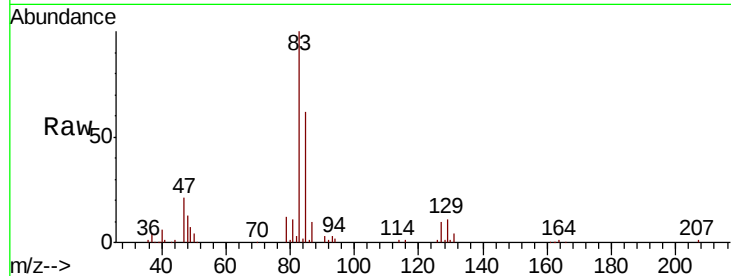




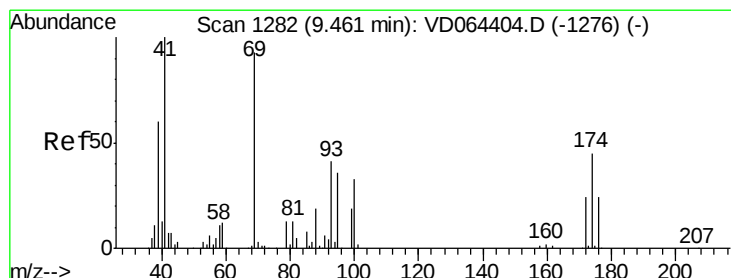
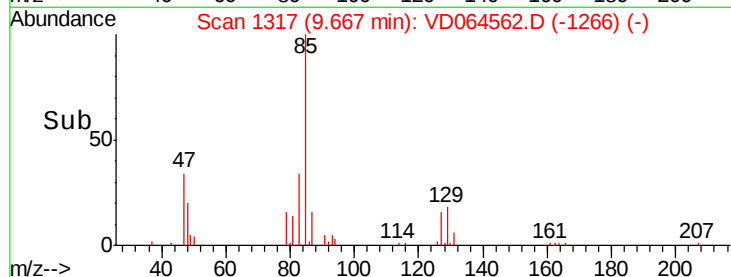
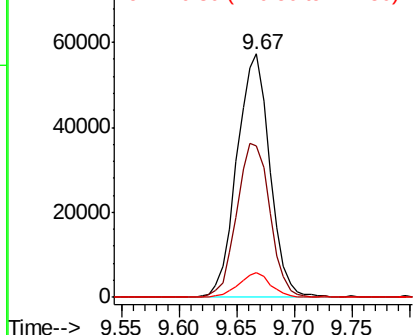
#47
Bromodichloromethane
Concen: 21.483 ug/l
RT: 9.67 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VD064562.D
Acq: 23 Dec 2019 12:14

Instrument :
MSVOA_D
ClientSampleId :
VD1223SBS01

Tot Ion: 83 Resp: 113232
Ion Ratio Lower Upper
83 100
85 62.3 51.1 76.7
127 10.0 7.4 11.0

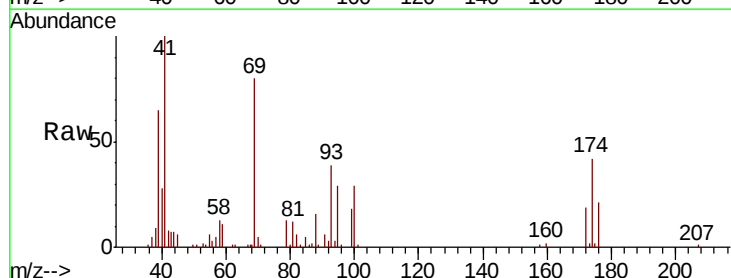


Abundance Ion 82.90 (82.60 to 83.60): VDC
Ion 84.90 (84.60 to 85.60): VDC
Ion 126.80 (126.50 to 127.50): V

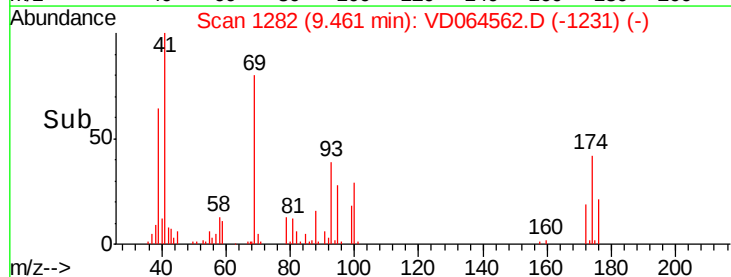
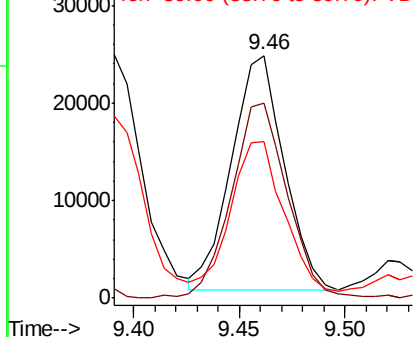


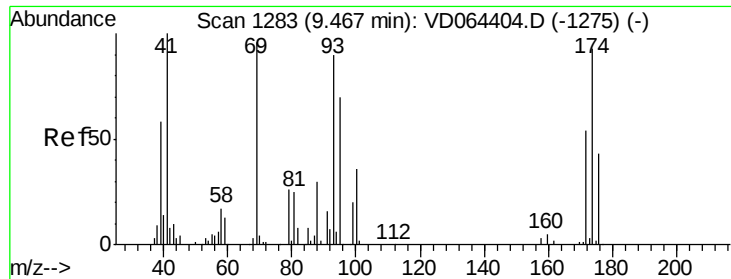
#48
Methyl methacrylate
Concen: 19.829 ug/l
RT: 9.46 min Scan# 1282
Delta R.T. 0.00 min
Lab File: VD064562.D
Acq: 23 Dec 2019 12:14

Tgt Ion: 41 Resp: 41420
Ion Ratio Lower Upper
41 100
69 89.3 72.0 108.0
39 64.1 55.2 82.8



Abundance Ion 41.00 (40.70 to 41.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 39.00 (38.70 to 39.70): VDC





#49

1,4-Dioxane

Concen: 379.350 ug/l

RT: 9.47 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VD064562.D

Acq: 23 Dec 2019 12:14

Instrument :

MSVOA_D

ClientSampleId :

VD1223SBS01

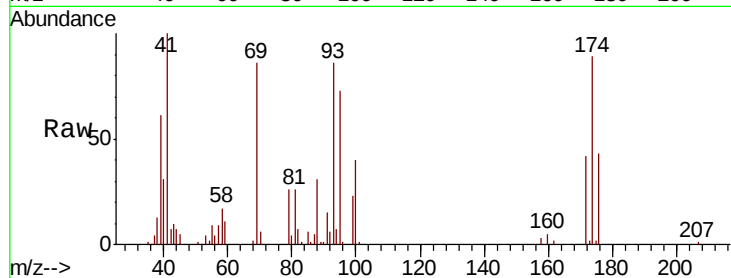
Tot Ion: 88 Resp: 9609

Ion Ratio Lower Upper

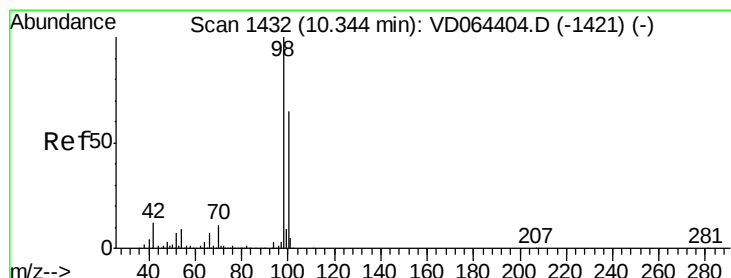
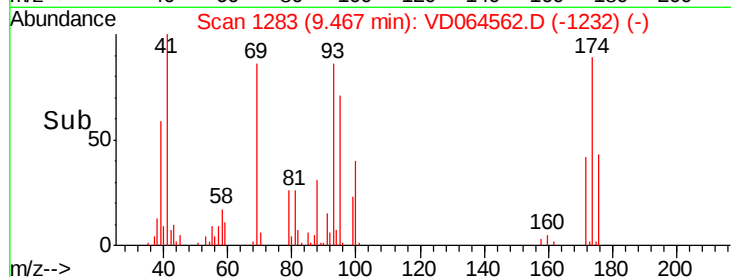
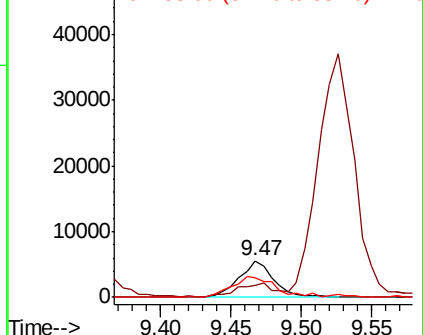
88 100

43 43.8 26.7 40.1#

58 69.6 52.3 78.5



Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.00 (42.70 to 43.70): VDC
Ion 58.00 (57.70 to 58.70): VDC



#50

Toluene-d8

Concen: 51.073 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.01 min

Lab File: VD064562.D

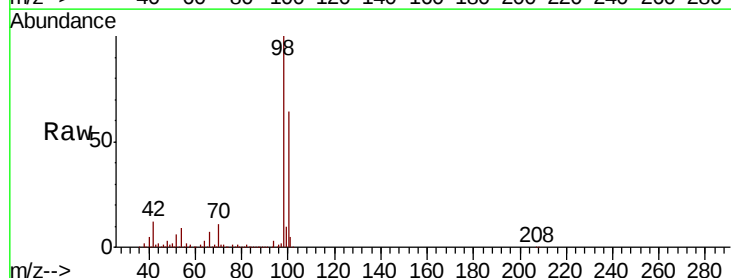
Acq: 23 Dec 2019 12:14

Tgt Ion: 98 Resp: 701190

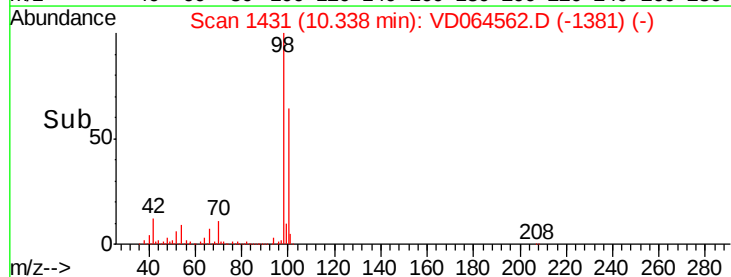
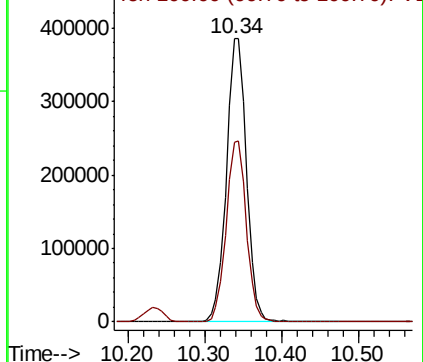
Ion Ratio Lower Upper

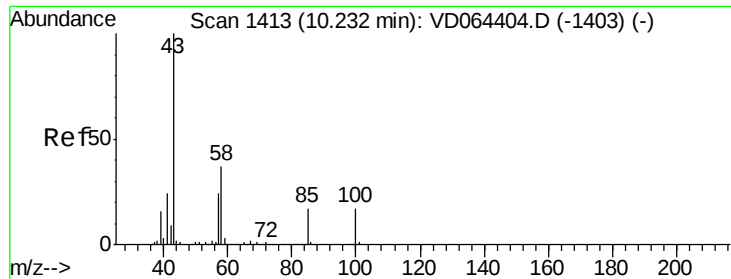
98 100

100 64.6 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VDC
Ion 100.00 (99.70 to 100.70): VDC





#51

4-Methyl-2-Pentanone

Concen: 99.399 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. 0.00 min

Lab File: VD064562.D

Acq: 23 Dec 2019 12:14

Instrument :

MSVOA_D

ClientSampleId :

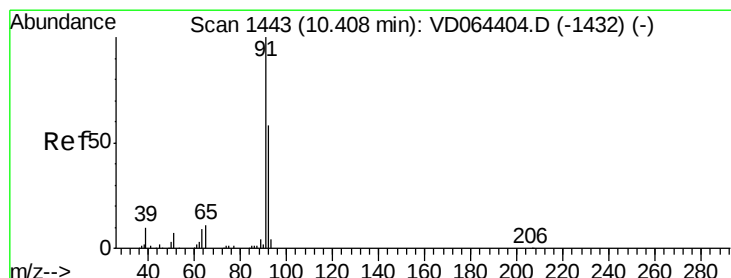
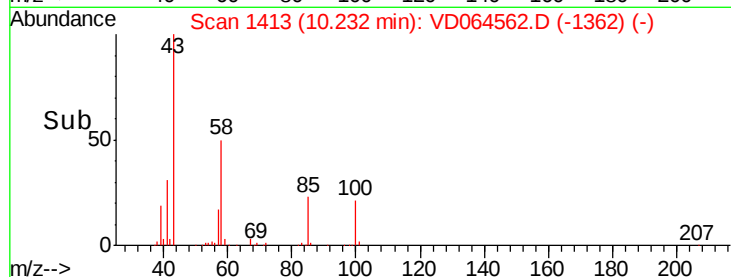
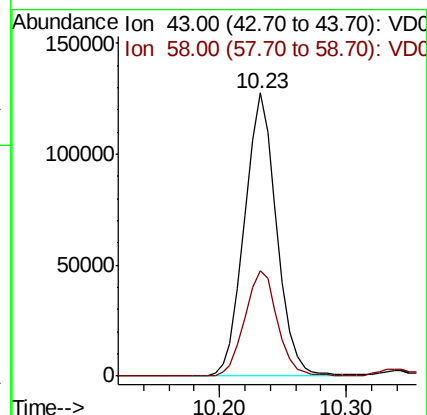
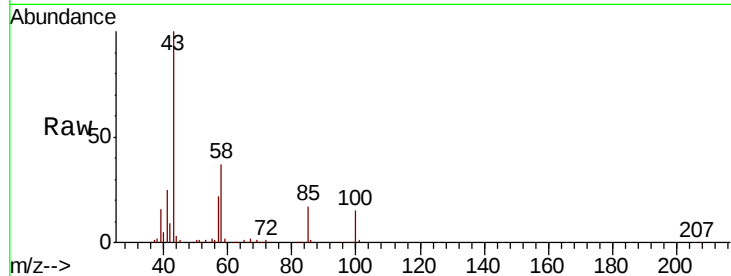
VD1223SBS01

Tot Ion: 43 Resp: 224510

Ion Ratio Lower Upper

43 100

58 38.0 30.6 46.0



#52

Toluene

Concen: 21.371 ug/l

RT: 10.40 min Scan# 1442

Delta R.T. -0.01 min

Lab File: VD064562.D

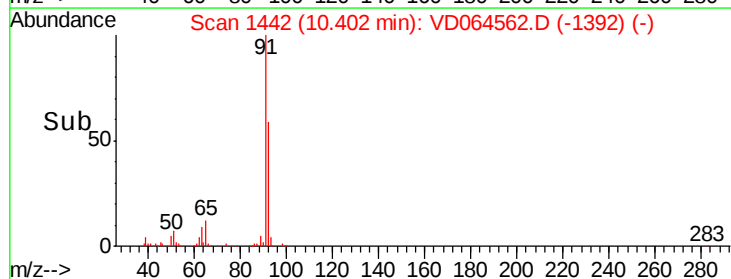
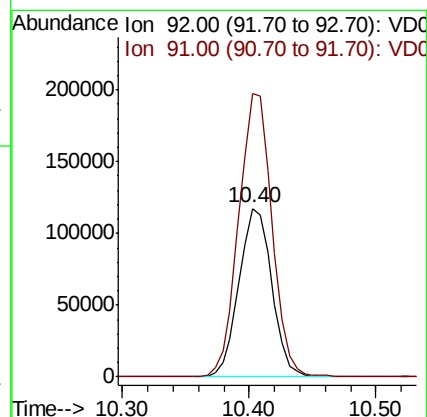
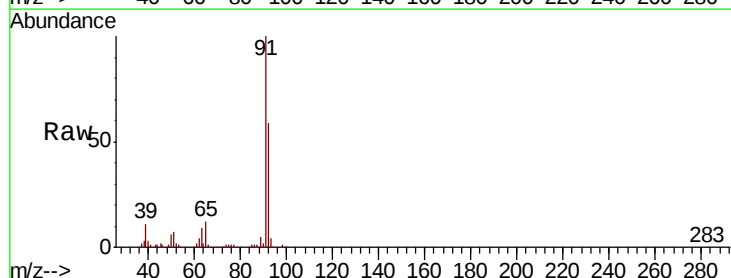
Acq: 23 Dec 2019 12:14

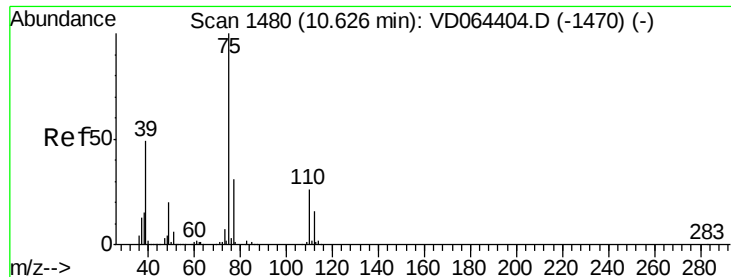
Tgt Ion: 92 Resp: 211660

Ion Ratio Lower Upper

92 100

91 169.9 137.8 206.6





#53

t-1,3-Dichloropropene

Concen: 21.243 ug/l

RT: 10.62 min Scan# 1479

Delta R.T. -0.01 min

Lab File: VD064562.D

Acq: 23 Dec 2019 12:14

Instrument :

MSVOA_D

ClientSampleId :

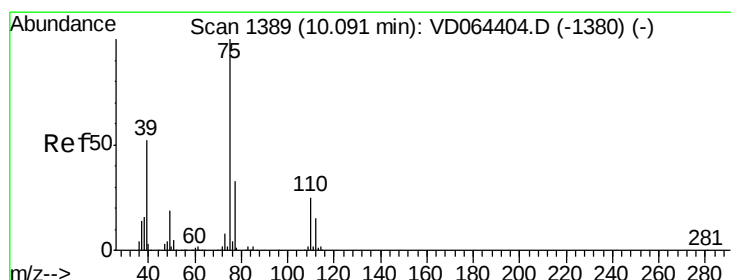
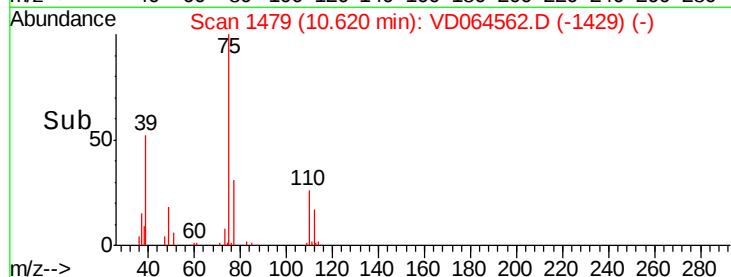
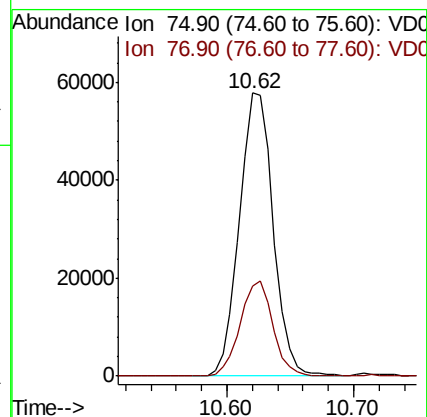
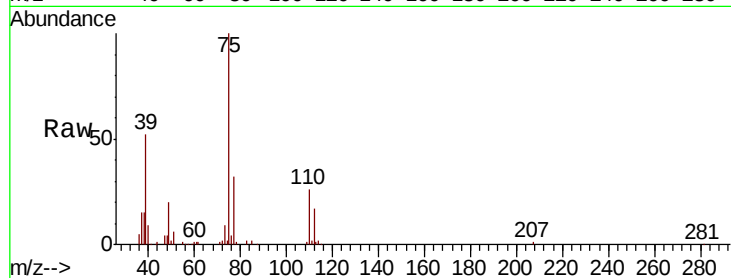
VD1223SBS01

Tot Ion: 75 Resp: 106707

Ion Ratio Lower Upper

75 100

77 31.9 25.0 37.4



#54

cis-1,3-Dichloropropene

Concen: 21.509 ug/l

RT: 10.09 min Scan# 1389

Delta R.T. 0.00 min

Lab File: VD064562.D

Acq: 23 Dec 2019 12:14

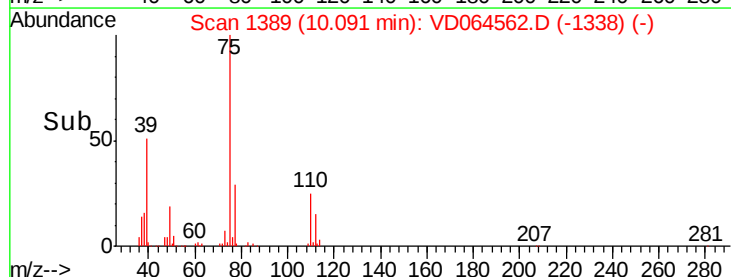
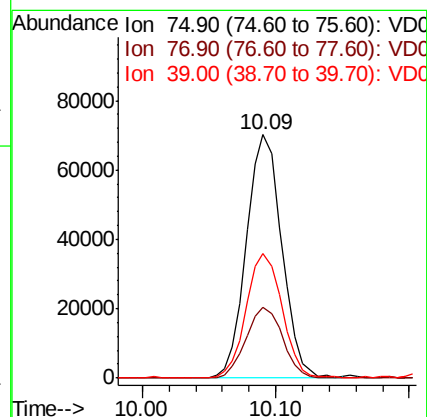
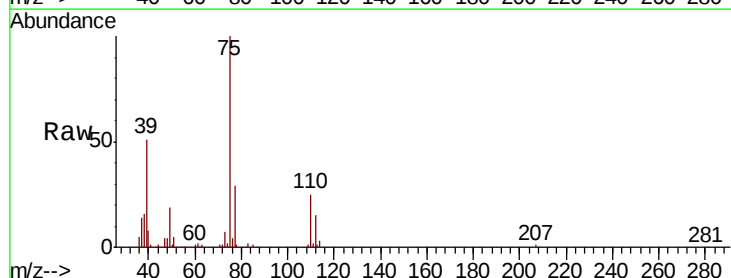
Tgt Ion: 75 Resp: 128350

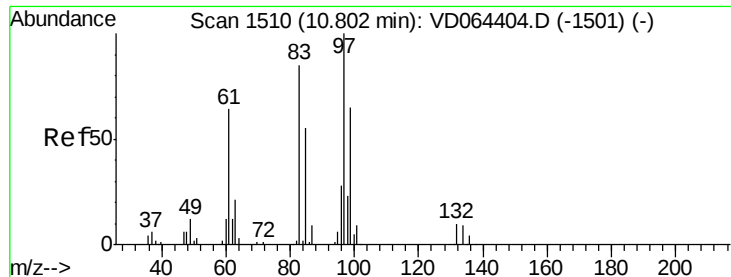
Ion Ratio Lower Upper

75 100

77 28.8 26.1 39.1

39 51.1 41.5 62.3

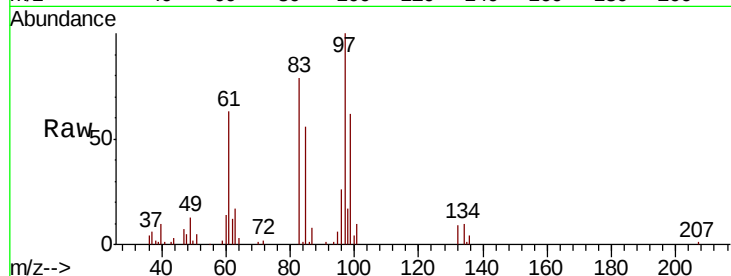




#55
 1,1,2-Trichloroethane
 Concen: 20.919 ug/l
 RT: 10.80 min Scan# 1510
 Delta R.T. 0.00 min
 Lab File: VD064562.D
 Acq: 23 Dec 2019 12:14

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1223SBSD01

Tot Ion	97	Resp	58757
Ion	Ratio	Lower	Upper
97	100		
83	78.7	67.8	101.8
85	56.1	43.7	65.5
99	62.0	51.7	77.5



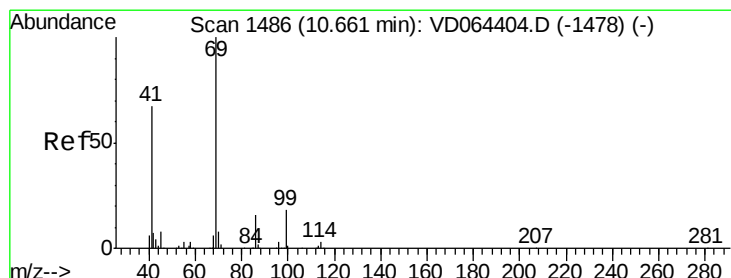
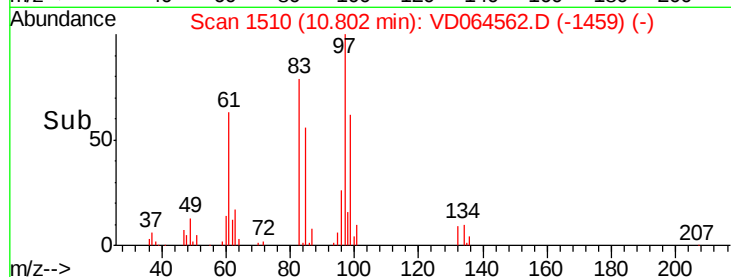
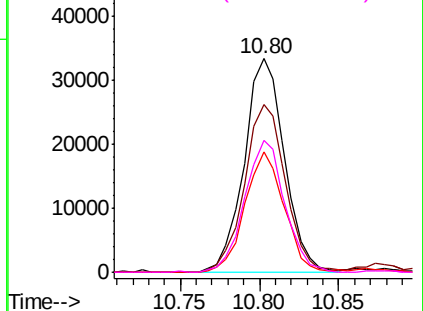
Abundance

Ion 96.90 (96.60 to 97.60): VDC

Ion 82.90 (82.60 to 83.60): VDC

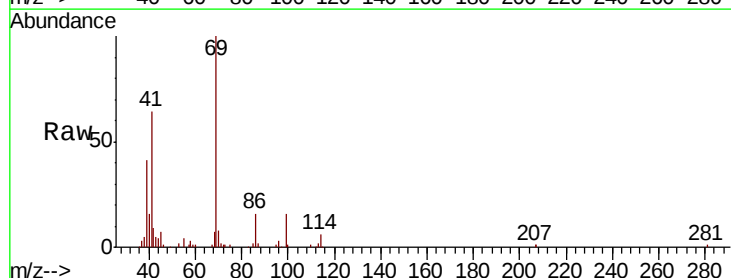
Ion 84.90 (84.60 to 85.60): VDC

Ion 98.90 (98.60 to 99.60): VDC



#56
 Ethyl methacrylate
 Concen: 19.907 ug/l
 RT: 10.67 min Scan# 1487
 Delta R.T. 0.01 min
 Lab File: VD064562.D
 Acq: 23 Dec 2019 12:14

Tgt Ion	69	Resp	71316
Ion	Ratio	Lower	Upper
69	100		
41	68.2	55.0	82.4
39	45.1	33.0	49.6

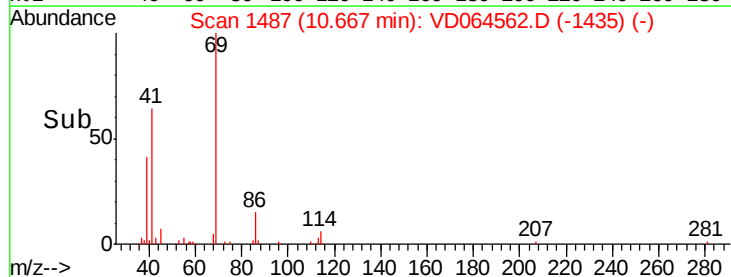
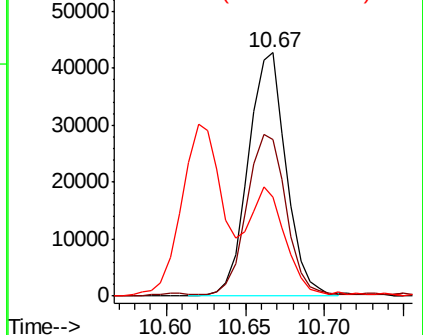


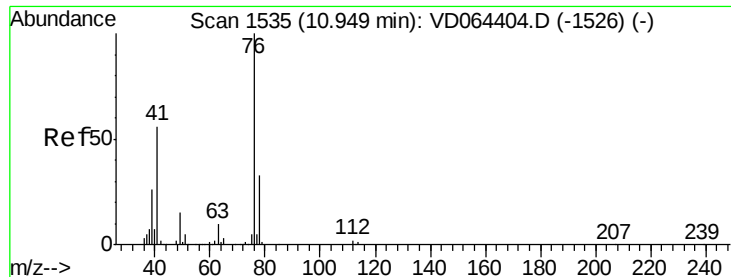
Abundance

Ion 69.00 (68.70 to 69.70): VDC

Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

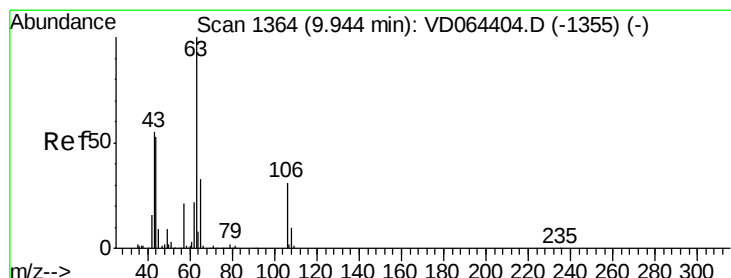
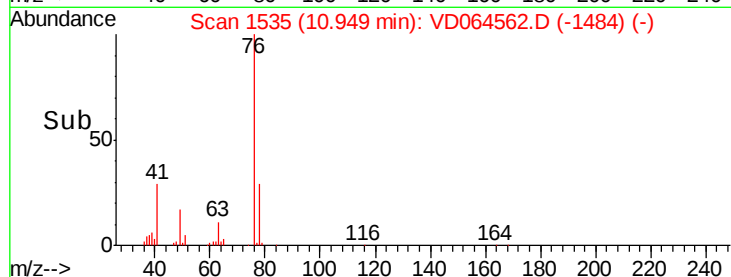
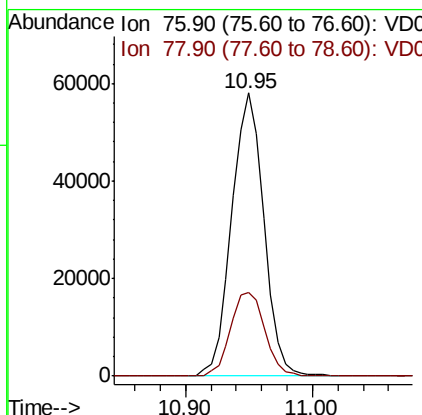
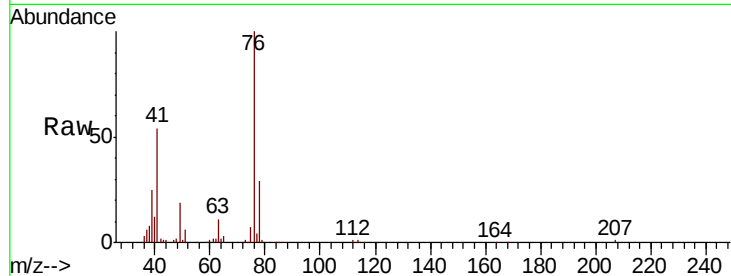




#57
 1,3-Dichloropropane
 Concen: 21.277 ug/l
 RT: 10.95 min Scan# 1535
 Delta R.T. 0.00 min
 Lab File: VD064562.D
 Acq: 23 Dec 2019 12:14

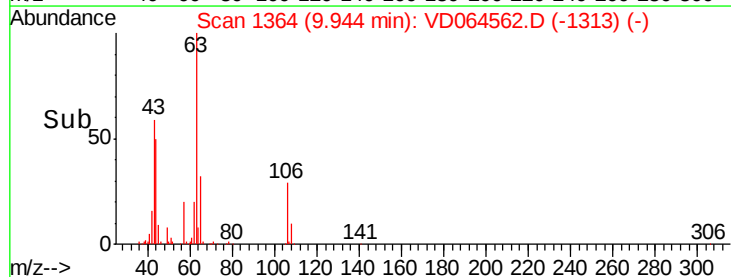
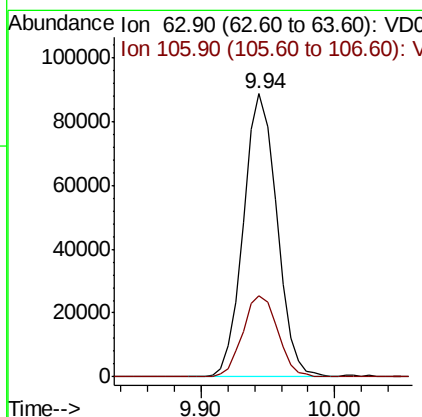
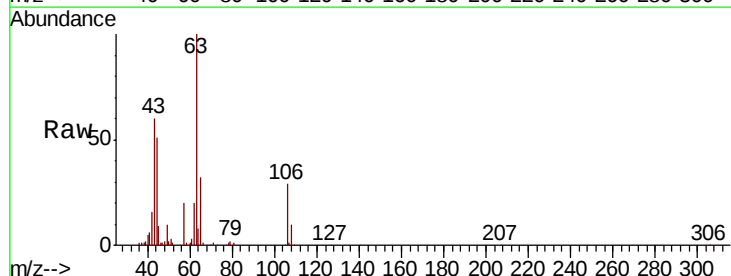
Instrument :
 MSVOA_D
 ClientSampleId :
 VD1223SBSD01

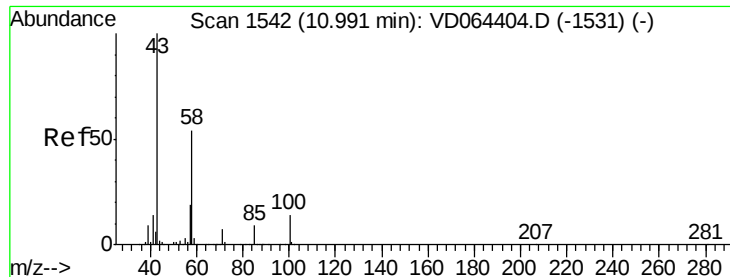
Tot Ion: 76 Resp: 101734
 Ion Ratio Lower Upper
 76 100
 78 31.4 26.0 39.0



#58
 2-Chloroethyl Vinyl ether
 Concen: 107.791 ug/l
 RT: 9.94 min Scan# 1364
 Delta R.T. 0.00 min
 Lab File: VD064562.D
 Acq: 23 Dec 2019 12:14

Tgt Ion: 63 Resp: 153935
 Ion Ratio Lower Upper
 63 100
 106 29.8 24.2 36.4

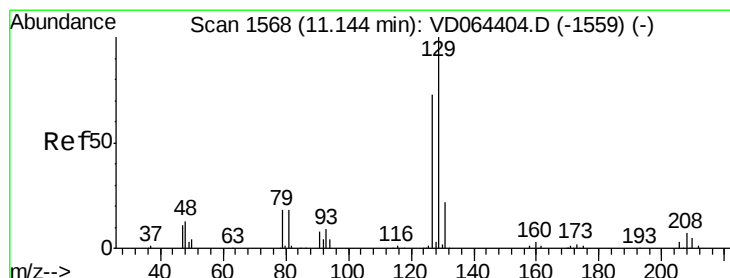
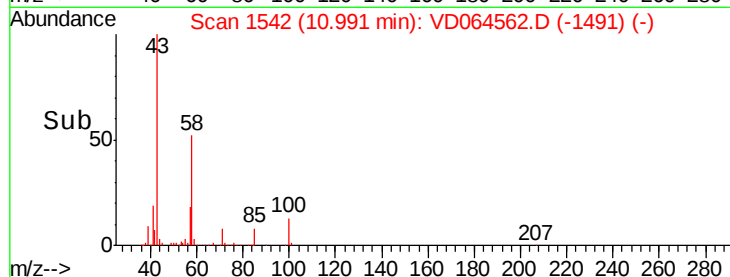
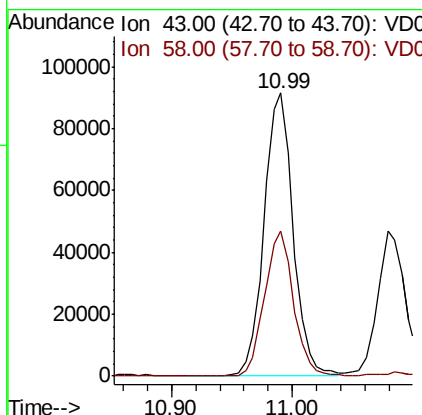
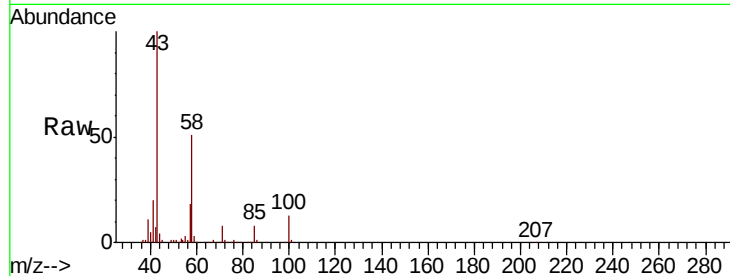




#59
2-Hexanone
Concen: 98.067 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.00 min
Lab File: VD064562.D
Acq: 23 Dec 2019 12:14

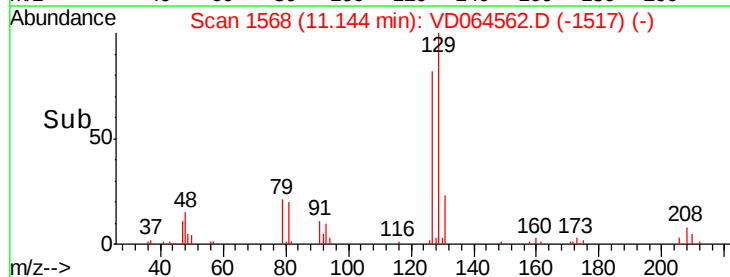
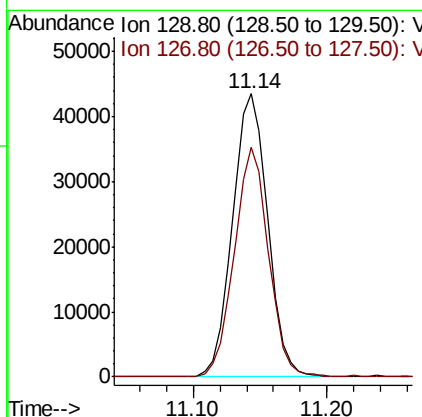
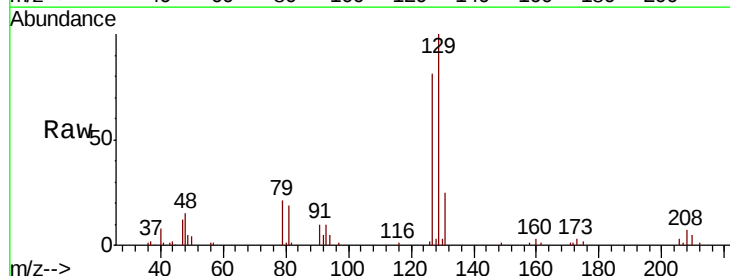
Instrument :
MSVOA_D
ClientSampleId :
VD1223SBS01

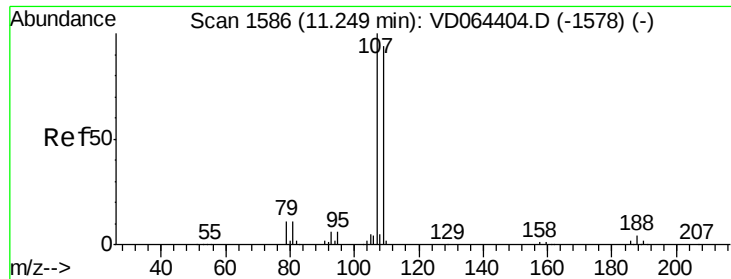
Tot Ion: 43 Resp: 153697
Ion Ratio Lower Upper
43 100
58 51.2 26.3 78.8



#60
Dibromochloromethane
Concen: 20.826 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VD064562.D
Acq: 23 Dec 2019 12:14

Tgt Ion: 129 Resp: 79310
Ion Ratio Lower Upper
129 100
127 78.7 38.1 114.3

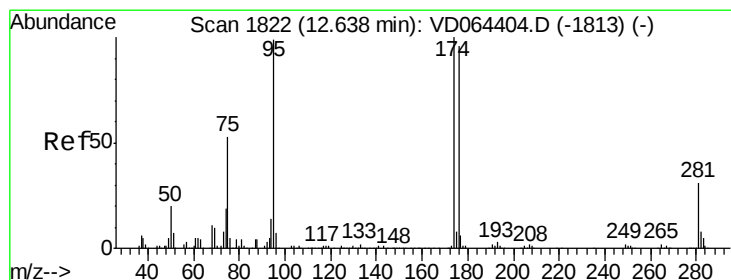
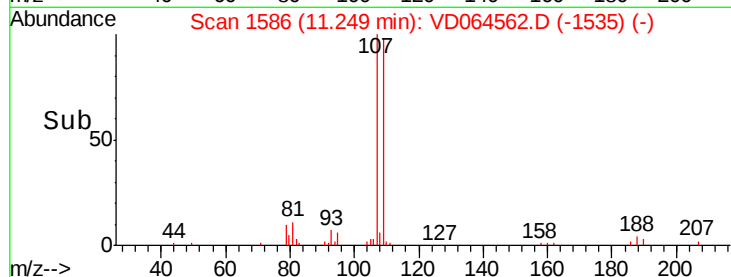
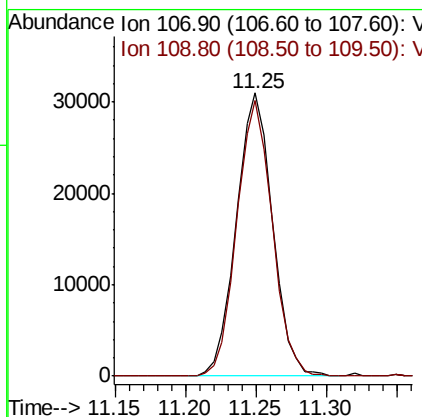
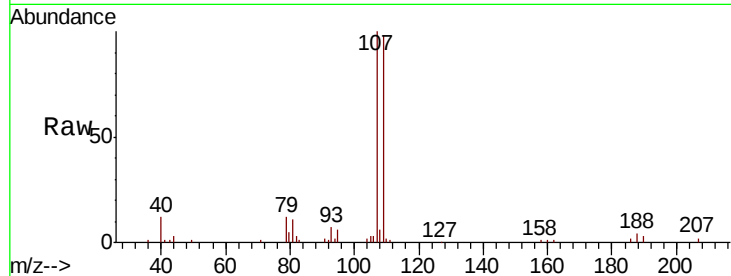




#61
 1,2-Dibromoethane
 Concen: 19.768 ug/l
 RT: 11.25 min Scan# 1586
 Delta R.T. 0.00 min
 Lab File: VD064562.D
 Acq: 23 Dec 2019 12:14

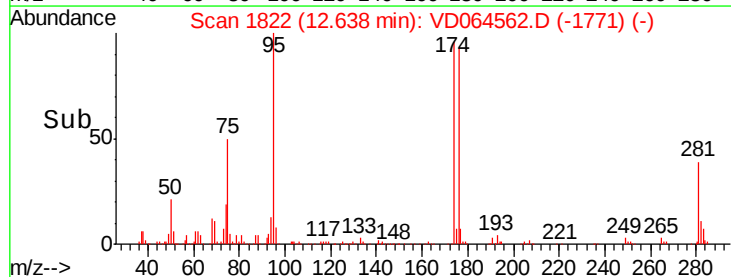
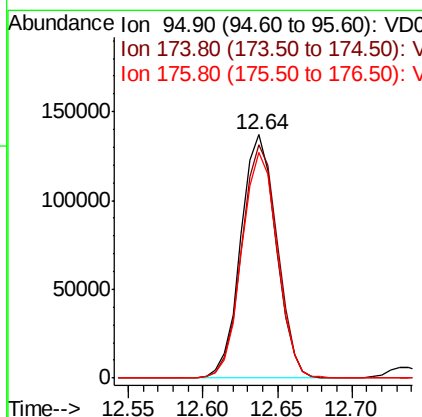
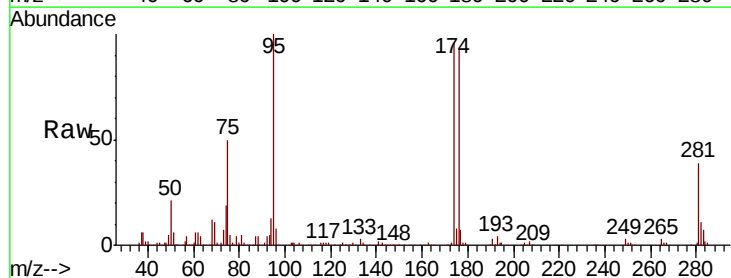
Instrument :
 MSVOA_D
 ClientSampleId :
 VD1223SBSD01

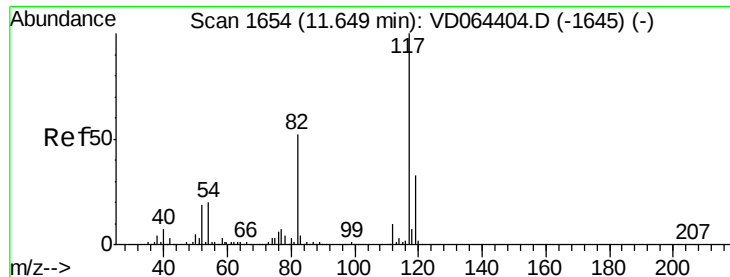
Tot Ion:107 Resp: 55439
 Ion Ratio Lower Upper
 107 100
 109 95.5 76.2 114.2



#62
 4-Bromofluorobenzene
 Concen: 50.941 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.00 min
 Lab File: VD064562.D
 Acq: 23 Dec 2019 12:14

Tgt Ion: 95 Resp: 224761
 Ion Ratio Lower Upper
 95 100
 174 97.4 0.0 197.2
 176 93.1 0.0 189.6

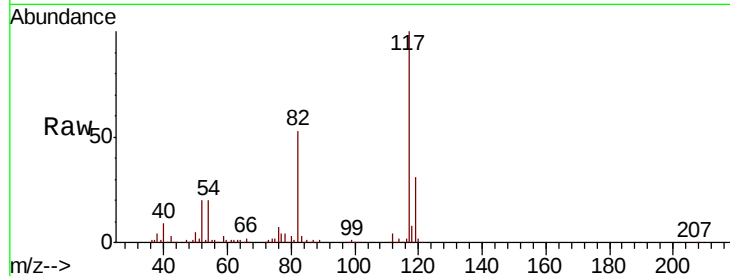




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064562.D
Acq: 23 Dec 2019 12:14

Instrument :
MSVOA_D
ClientSampleId :
VD1223SBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.0	41.4	62.2
119	31.4	26.2	39.2

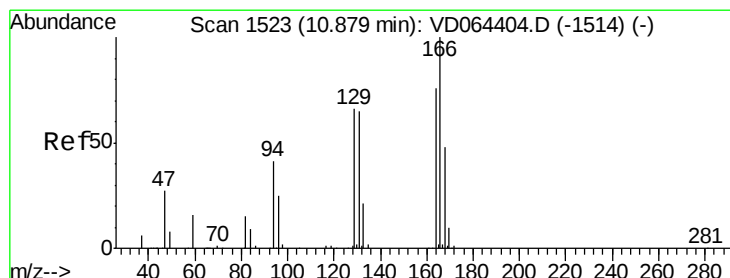
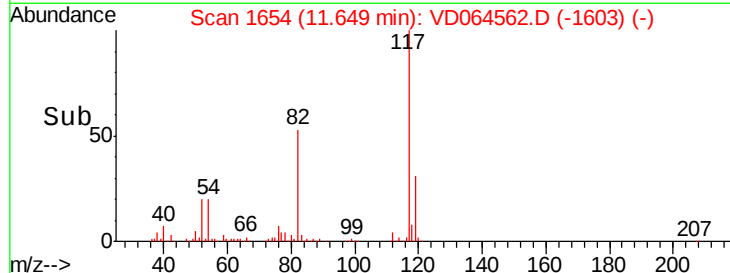
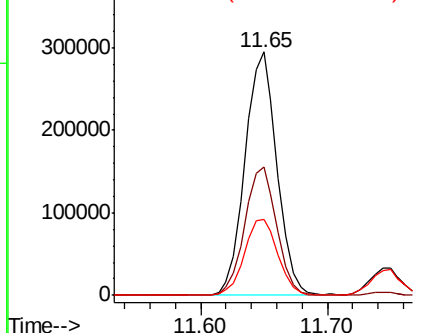


Abundance

Ion 116.90 (116.60 to 117.60): V

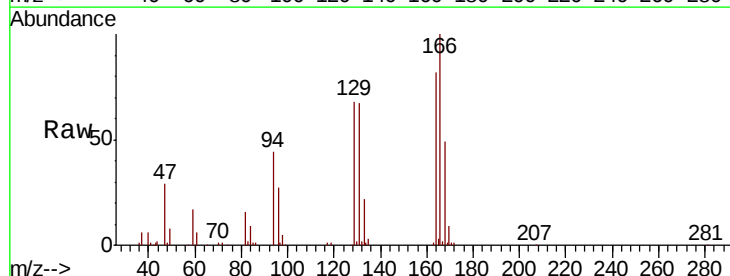
Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 21.015 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.00 min
Lab File: VD064562.D
Acq: 23 Dec 2019 12:14

Tgt Ion	Ratio	Lower	Upper
164	100		
166	121.4	104.8	157.2
129	83.1	68.7	103.1
131	81.4	67.9	101.9



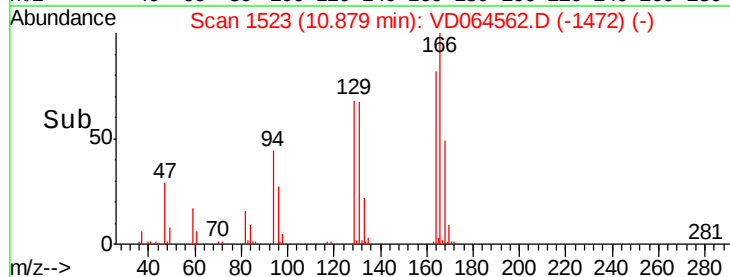
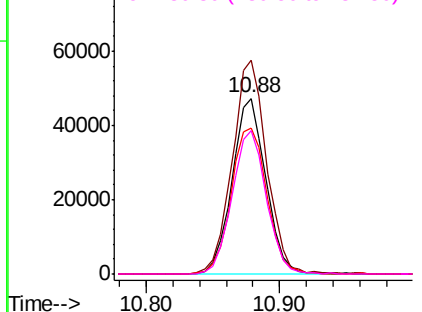
Abundance

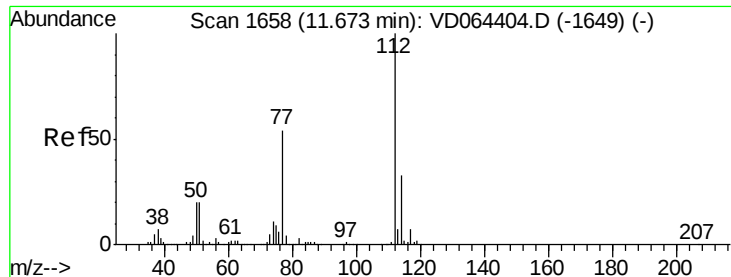
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V

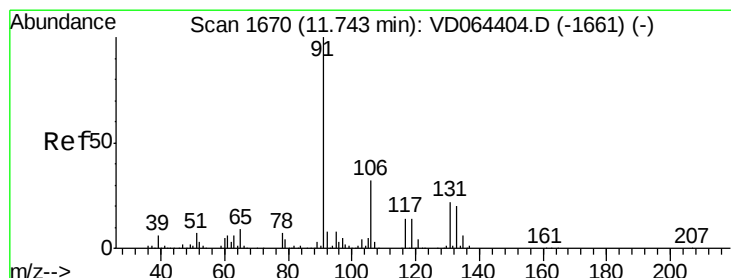
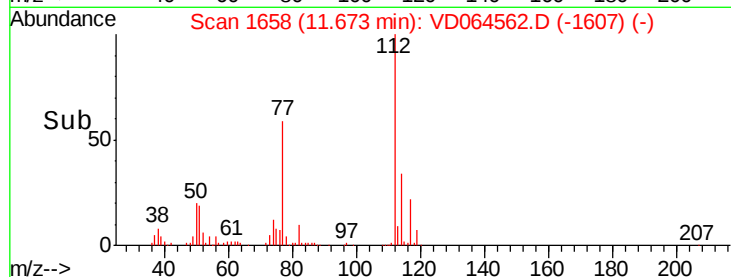
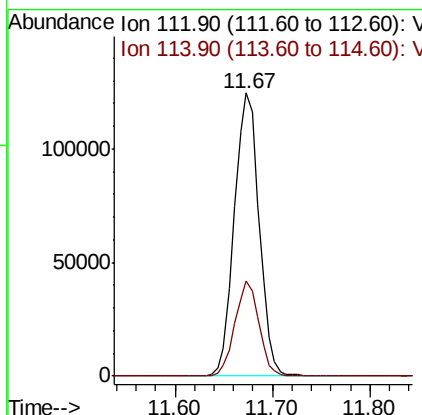
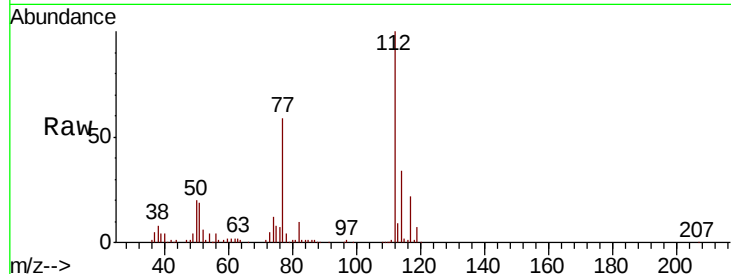




#65
Chlorobenzene
Concen: 20.509 ug/l
RT: 11.67 min Scan# 1658
Delta R.T. 0.00 min
Lab File: VD064562.D
Acq: 23 Dec 2019 12:14

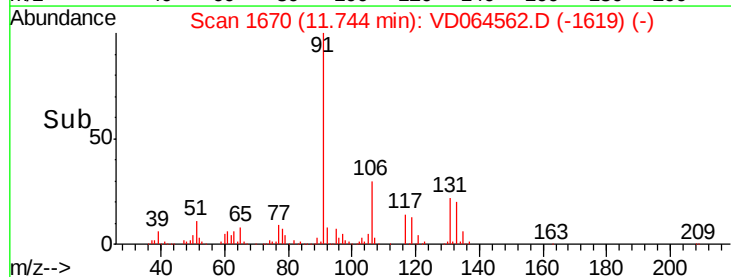
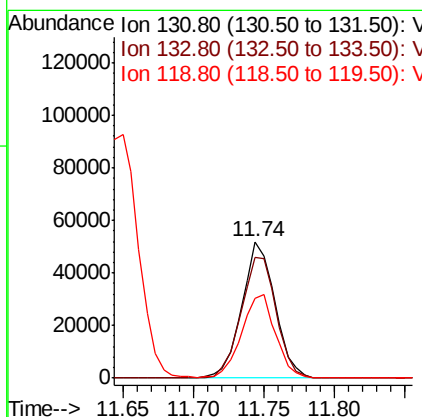
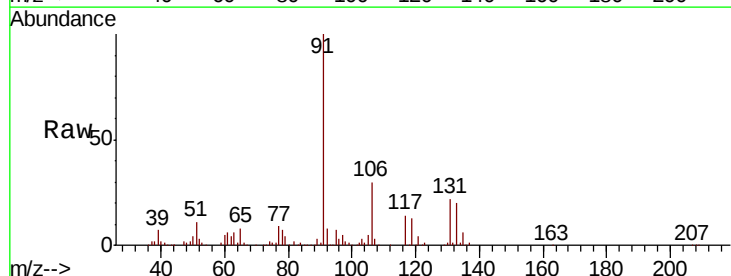
Instrument :
MSVOA_D
ClientSampleId :
VD1223SBSD01

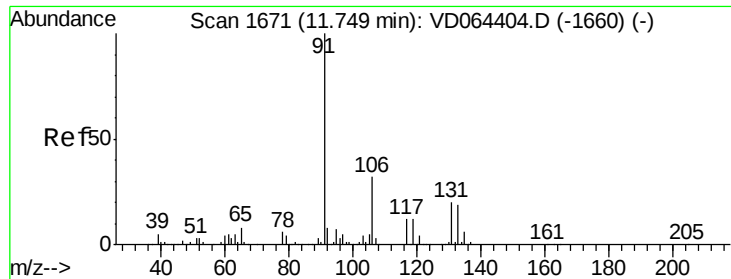
Tot Ion:112 Resp: 220910
Ion Ratio Lower Upper
112 100
114 33.8 26.5 39.7



#66
1,1,1,2-Tetrachloroethane
Concen: 21.430 ug/l
RT: 11.74 min Scan# 1670
Delta R.T. 0.00 min
Lab File: VD064562.D
Acq: 23 Dec 2019 12:14

Tgt Ion:131 Resp: 85451
Ion Ratio Lower Upper
131 100
133 94.1 48.3 144.9
119 62.9 31.9 95.9

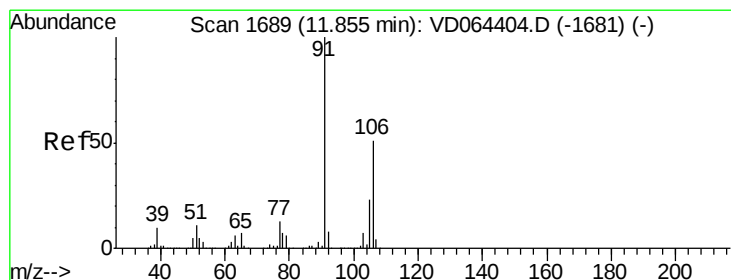
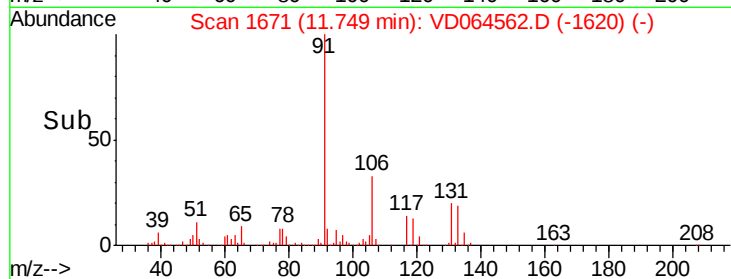
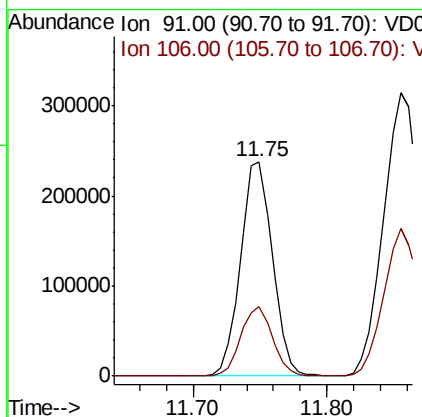
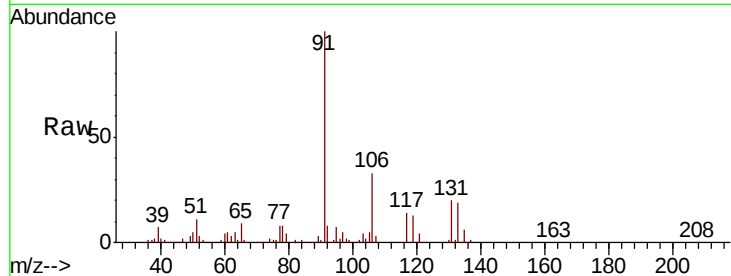




#67
Ethyl Benzene
Concen: 20.538 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VD064562.D
Acq: 23 Dec 2019 12:14

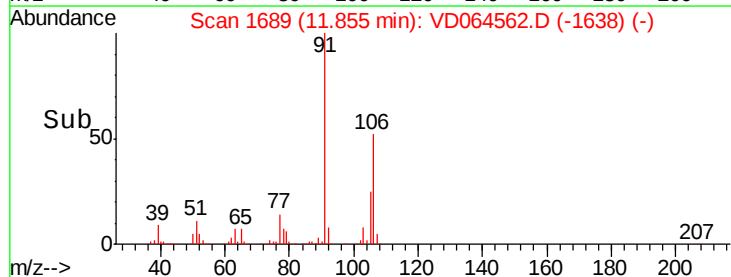
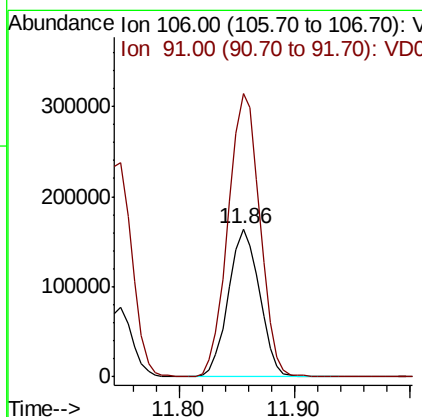
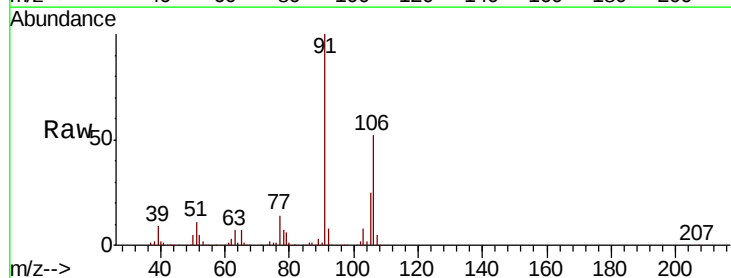
Instrument :
MSVOA_D
ClientSampleId :
VD1223SBS01

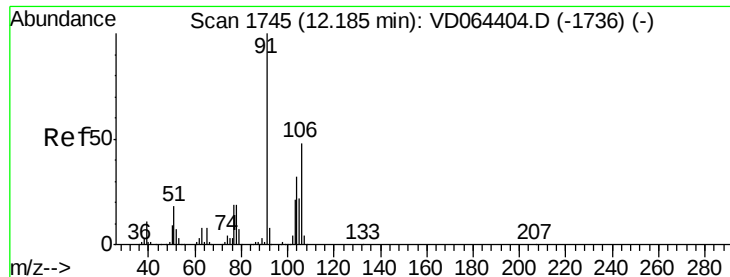
Tot Ion: 91 Resp: 393614
Ion Ratio Lower Upper
91 100
106 32.6 25.8 38.8



#68
m/p-Xylenes
Concen: 42.220 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. 0.00 min
Lab File: VD064562.D
Acq: 23 Dec 2019 12:14

Tgt Ion: 106 Resp: 308513
Ion Ratio Lower Upper
106 100
91 194.6 157.4 236.2

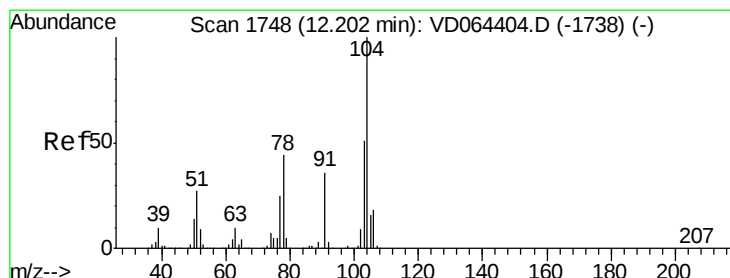
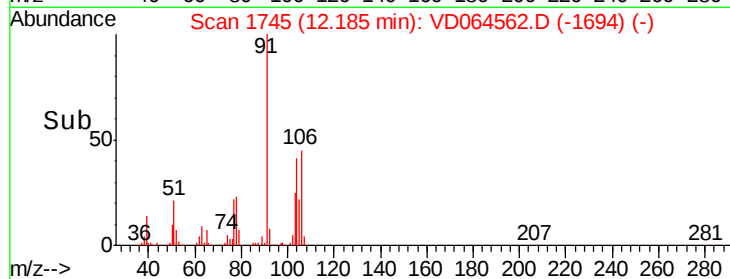
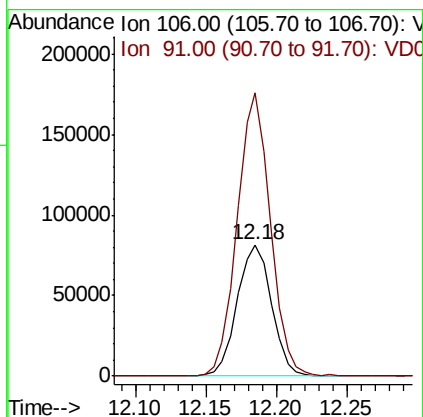
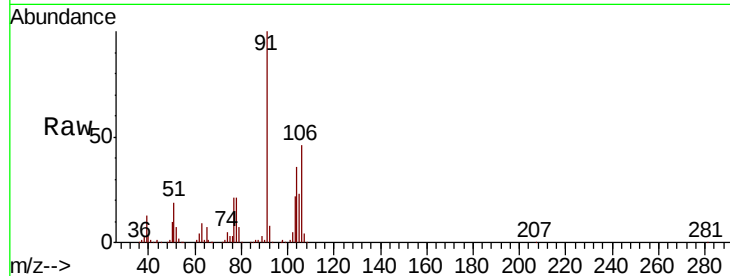




#69
o-Xylene
Concen: 20.537 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VD064562.D
Acq: 23 Dec 2019 12:14

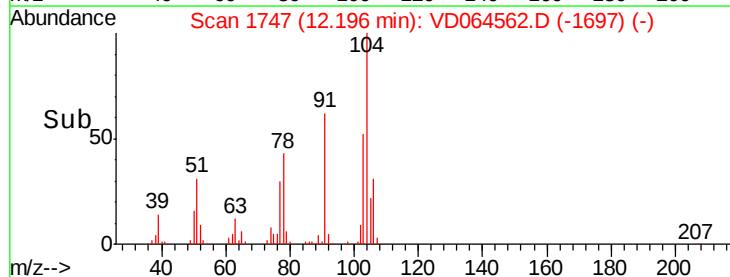
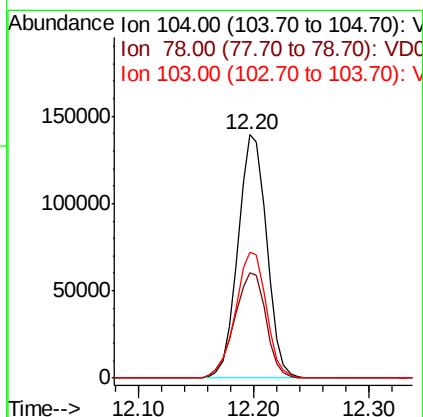
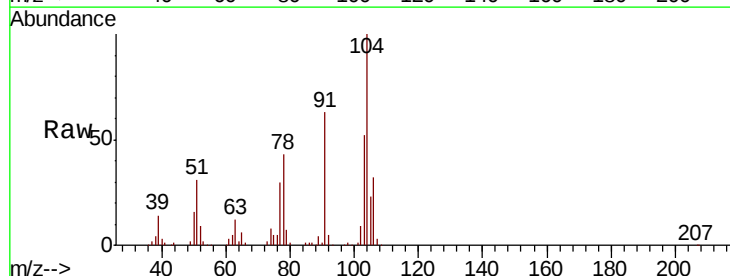
Instrument :
MSVOA_D
ClientSampleId :
VD1223SBSD01

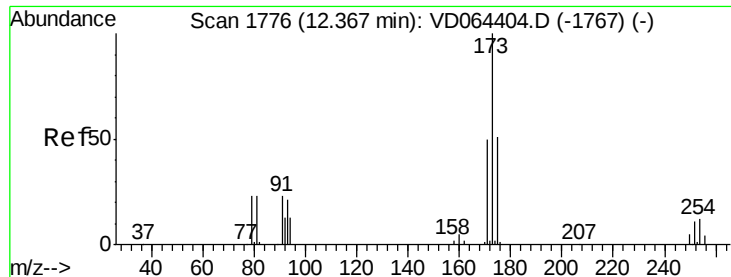
Tot Ion:106 Resp: 138599
Ion Ratio Lower Upper
106 100
91 208.8 103.8 311.4



#70
Styrene
Concen: 20.518 ug/l
RT: 12.20 min Scan# 1747
Delta R.T. -0.01 min
Lab File: VD064562.D
Acq: 23 Dec 2019 12:14

Tgt Ion:104 Resp: 240623
Ion Ratio Lower Upper
104 100
78 47.4 38.8 58.2
103 55.5 44.2 66.4





#71

Bromoform

Concen: 19.749 ug/l

RT: 12.36 min Scan# 1775

Delta R.T. -0.01 min

Lab File: VD064562.D

Acq: 23 Dec 2019 12:14

Instrument :

MSVOA_D

ClientSampleId :

VD1223SBSD01

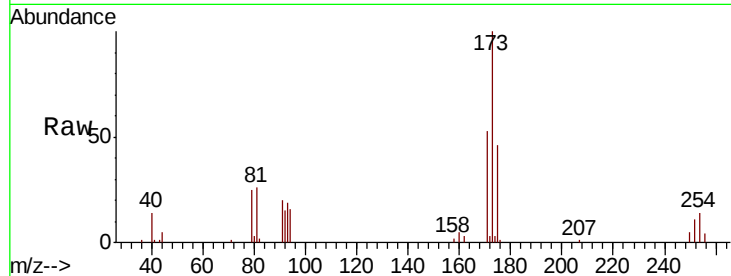
Tot Ion:173 Resp: 47114

Ion Ratio Lower Upper

173 100

175 49.0 25.3 75.8

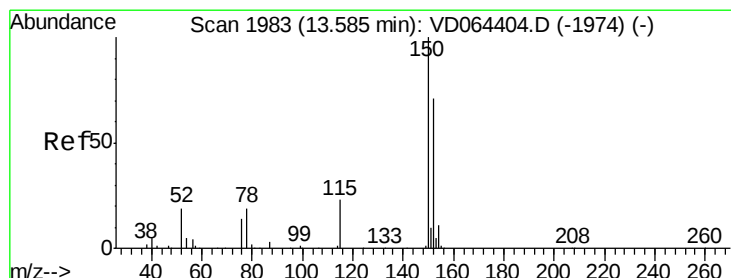
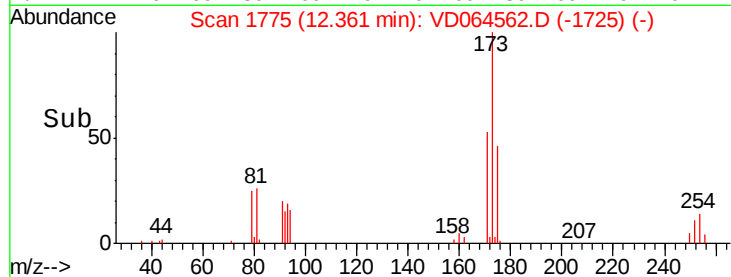
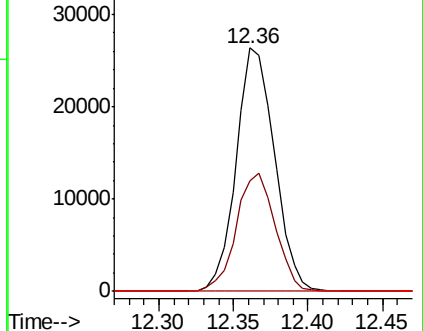
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VD064562.D

Acq: 23 Dec 2019 12:14

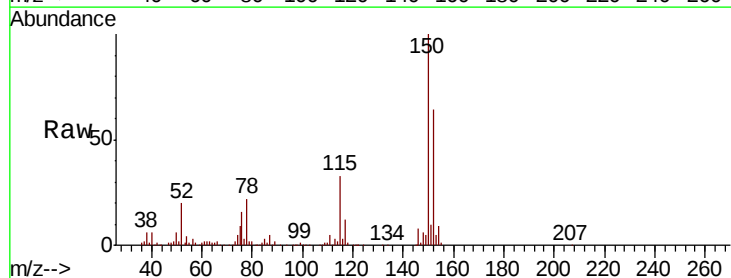
Tgt Ion:152 Resp: 267057

Ion Ratio Lower Upper

152 100

115 52.5 26.7 80.1

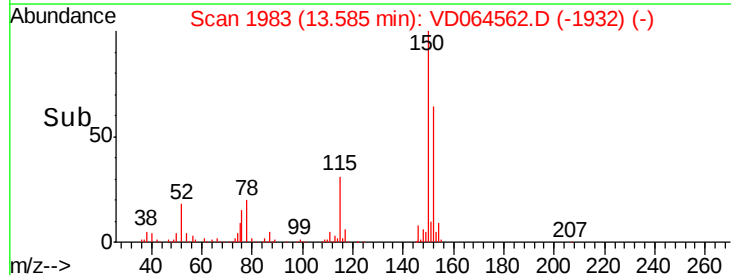
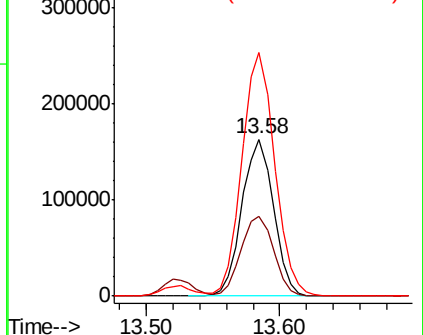
150 160.9 0.0 347.2

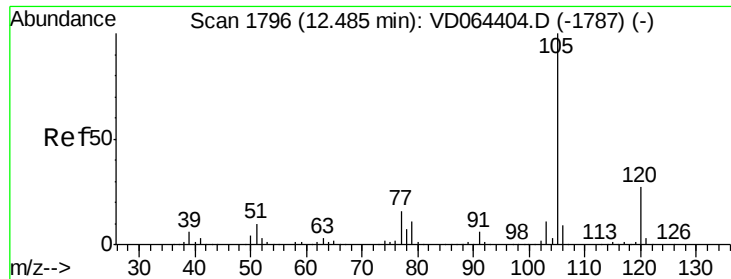


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 19.952 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VD064562.D

Acq: 23 Dec 2019 12:14

Instrument :

MSVOA_D

ClientSampleId :

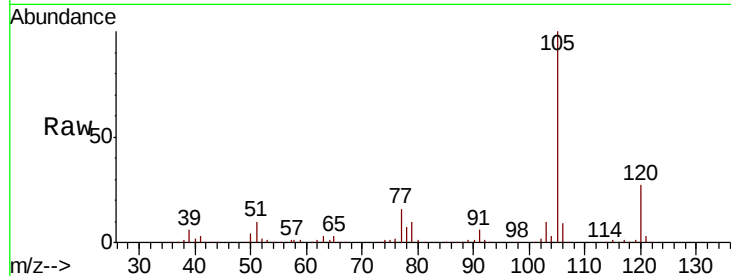
VD1223SBS01

Tot Ion:105 Resp: 383211

Ion Ratio Lower Upper

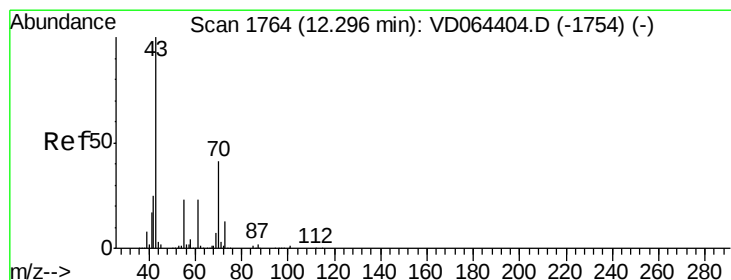
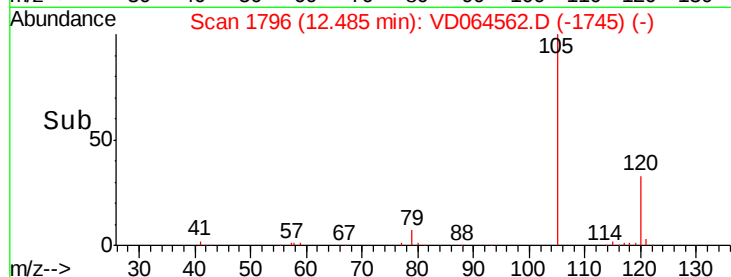
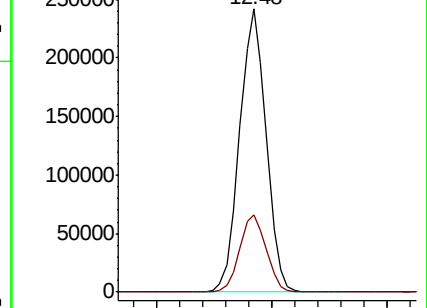
105 100

120 27.3 13.4 40.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 19.506 ug/l

RT: 12.30 min Scan# 1764

Delta R.T. 0.00 min

Lab File: VD064562.D

Acq: 23 Dec 2019 12:14

Tgt Ion: 43 Resp: 85033

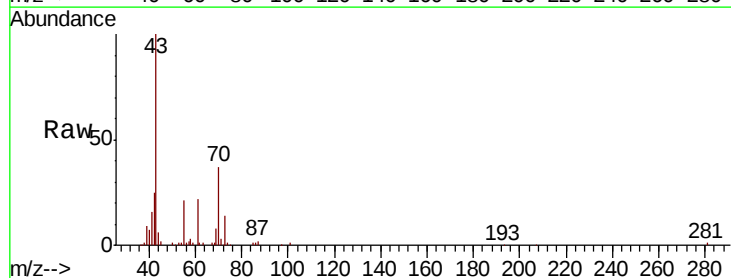
Ion Ratio Lower Upper

43 100

70 40.7 33.4 50.2

55 23.7 18.9 28.3

61 21.5 18.5 27.7

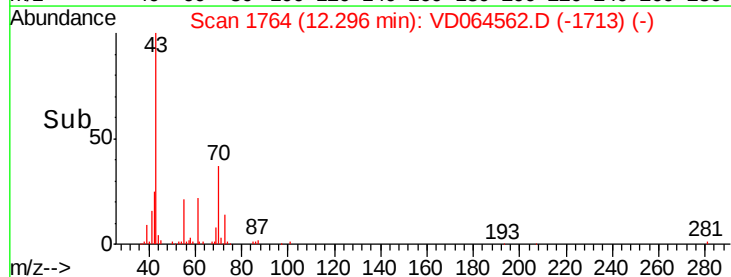
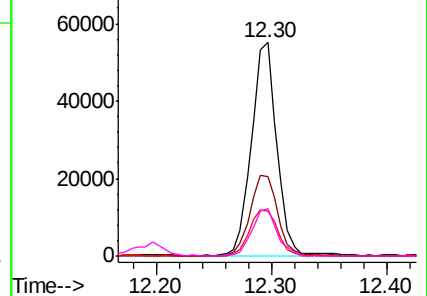


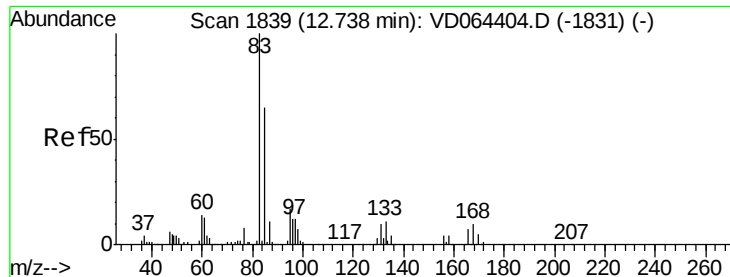
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 18.323 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. 0.00 min

Lab File: VD064562.D

Acq: 23 Dec 2019 12:14

Instrument :

MSVOA_D

ClientSampleId :

VD1223SBSD01

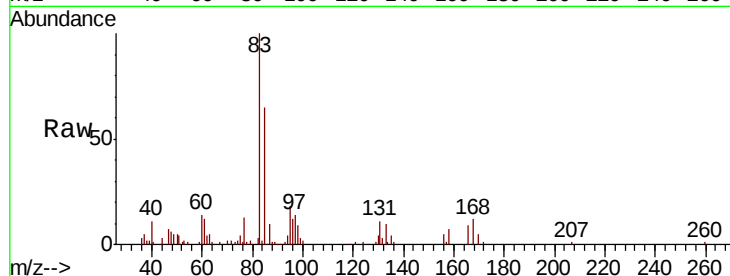
Tot Ion: 83 Resp: 58197

Ion Ratio Lower Upper

83 100

131 10.9 5.7 17.0

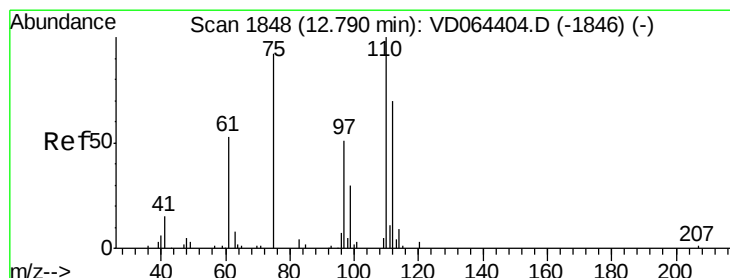
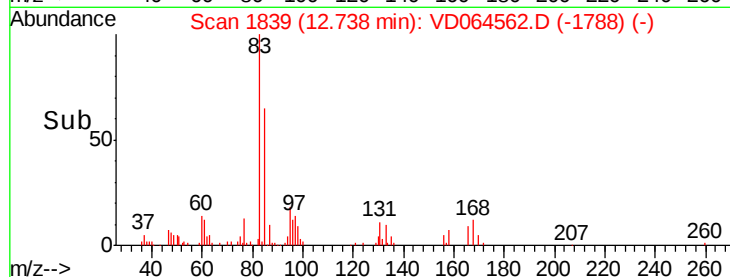
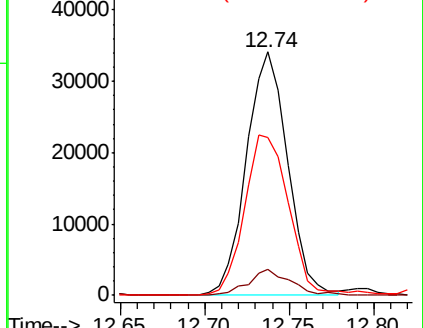
85 69.9 31.3 93.9



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 130.80 (130.50 to 131.50): VDC

Ion 84.90 (84.60 to 85.60): VDC



#76

1,2,3-Trichloropropane

Concen: 36.755 ug/l

RT: 12.78 min Scan# 1847

Delta R.T. -0.01 min

Lab File: VD064562.D

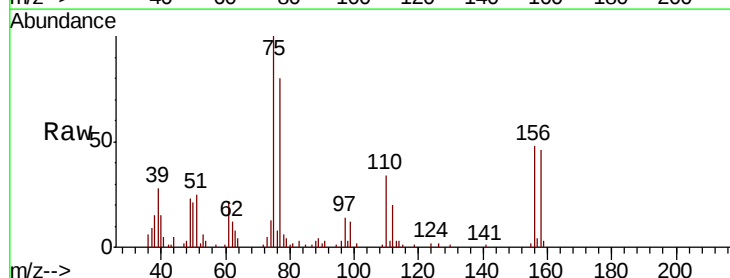
Acq: 23 Dec 2019 12:14

Tgt Ion: 75 Resp: 80722

Ion Ratio Lower Upper

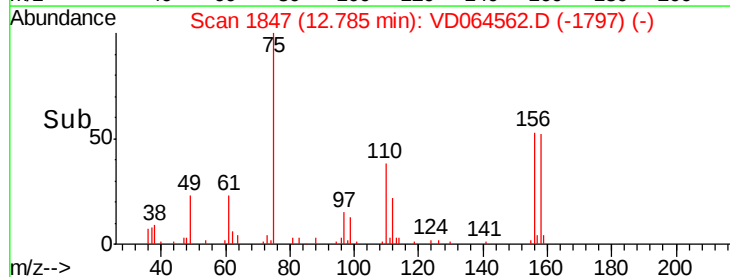
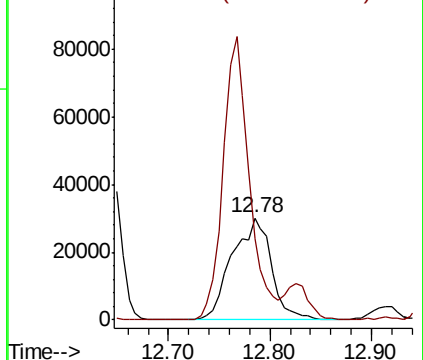
75 100

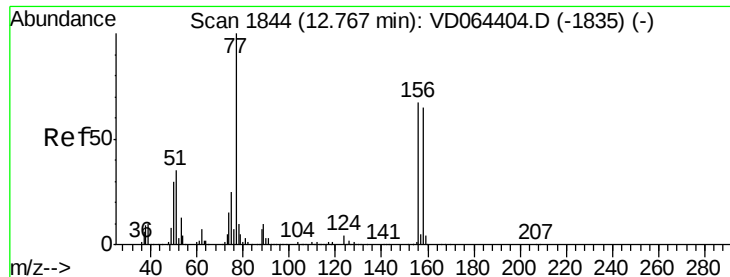
77 186.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#77

Bromobenzene

Concen: 19.813 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. 0.00 min

Lab File: VD064562.D

Acq: 23 Dec 2019 12:14

Instrument :

MSVOA_D

ClientSampleId :

VD1223SBSD01

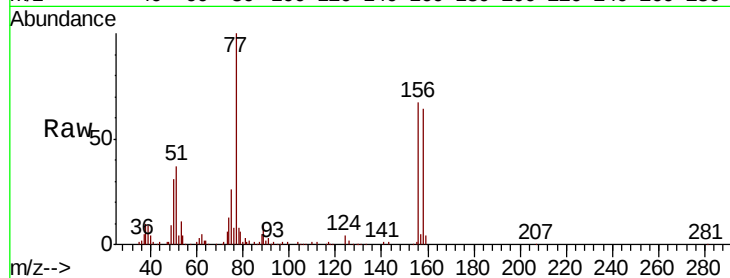
Tot Ion:156 Resp: 93976

Ion Ratio Lower Upper

156 100

77 160.5 80.0 240.2

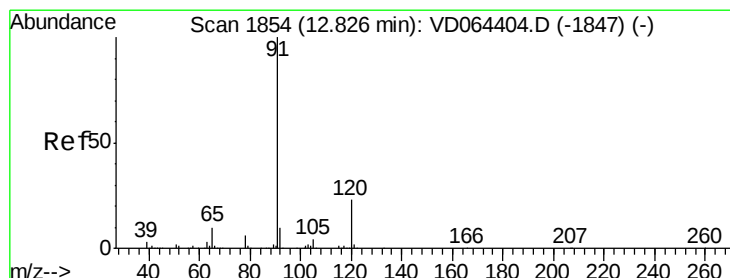
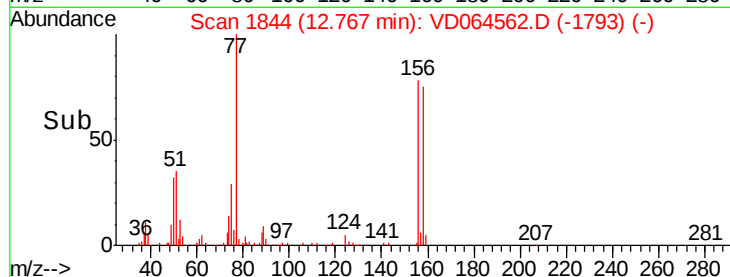
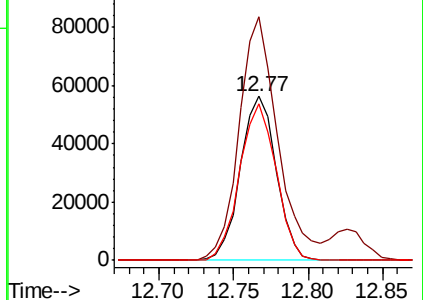
158 97.0 48.9 146.6



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VDC

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 20.213 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VD064562.D

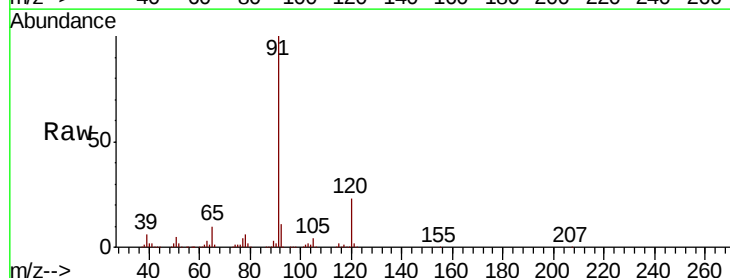
Acq: 23 Dec 2019 12:14

Tgt Ion: 91 Resp: 447948

Ion Ratio Lower Upper

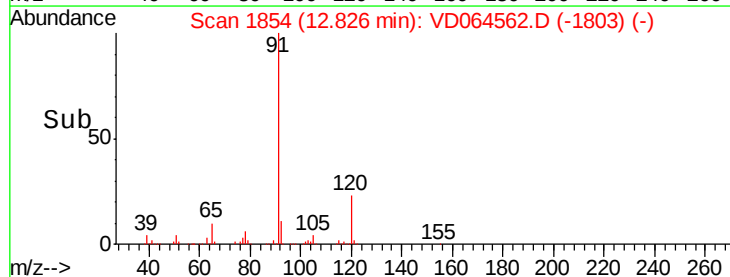
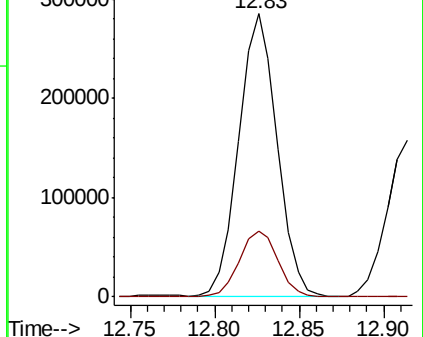
91 100

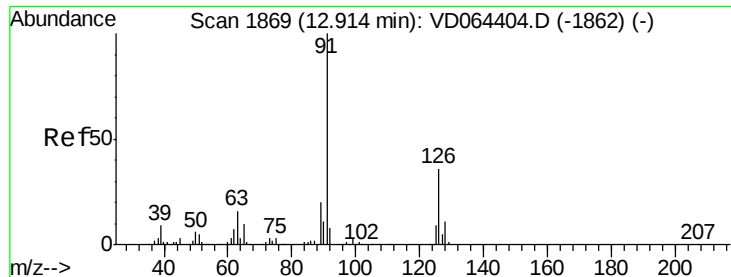
120 23.6 11.9 35.9



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.124 ug/l

RT: 12.91 min Scan# 1869

Delta R.T. 0.00 min

Lab File: VD064562.D

Acq: 23 Dec 2019 12:14

Instrument :

MSVOA_D

ClientSampleId :

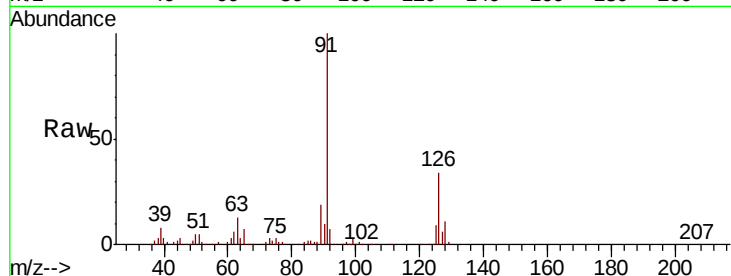
VD1223SBS01

Tot Ion: 91 Resp: 245396

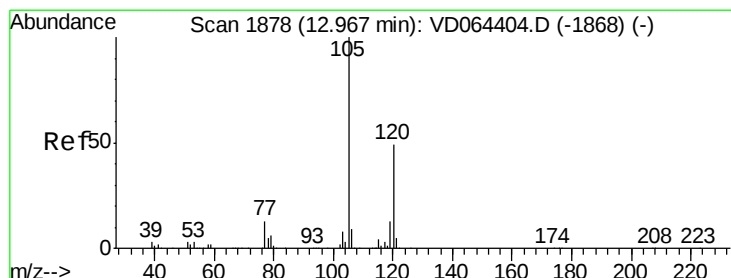
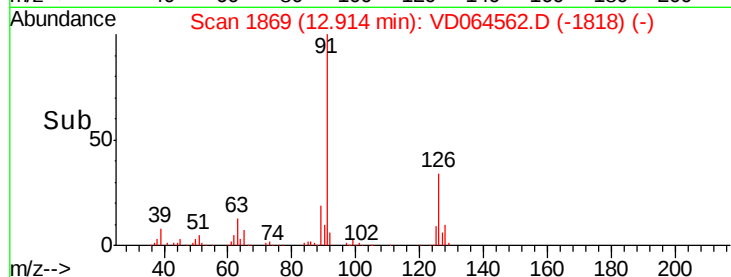
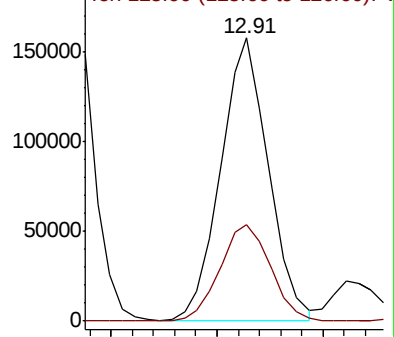
Ion Ratio Lower Upper

91 100

126 36.6 18.0 54.0



Abundance Ion 91.00 (90.70 to 91.70): VD064404.D (-1862) (-)



#80

1,3,5-Trimethylbenzene

Concen: 20.024 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. 0.00 min

Lab File: VD064562.D

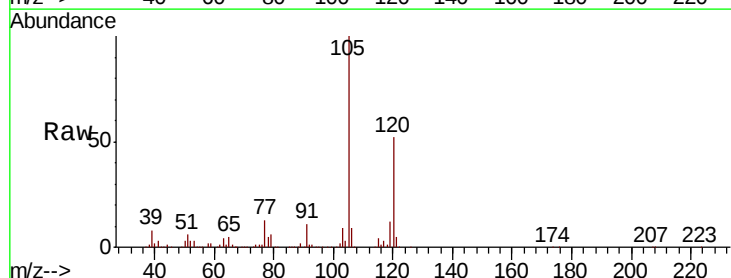
Acq: 23 Dec 2019 12:14

Tgt Ion:105 Resp: 314290

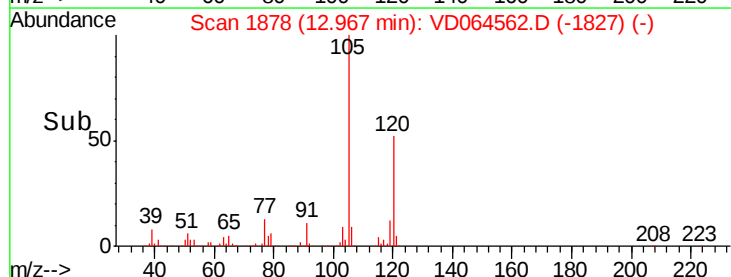
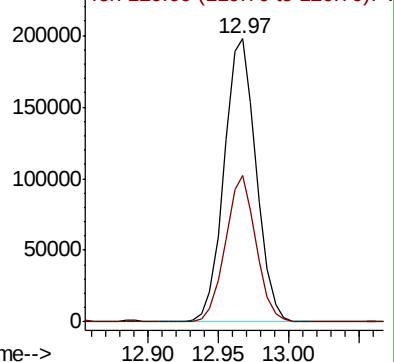
Ion Ratio Lower Upper

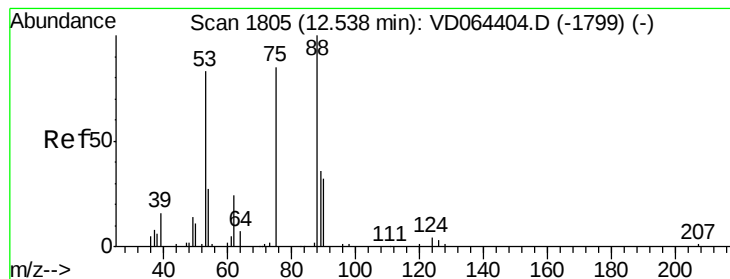
105 100

120 49.5 25.1 75.3



Abundance Ion 105.00 (104.70 to 105.70): VD064404.D (-1868) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 19.239 ug/l

RT: 12.53 min Scan# 1804

Delta R.T. -0.01 min

Lab File: VD064562.D

Acq: 23 Dec 2019 12:14

Instrument :

MSVOA_D

ClientSampleId :

VD1223SBSD01

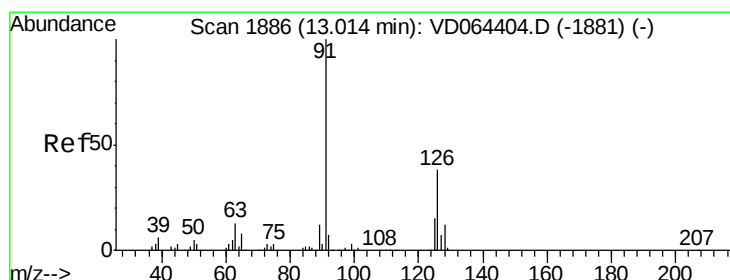
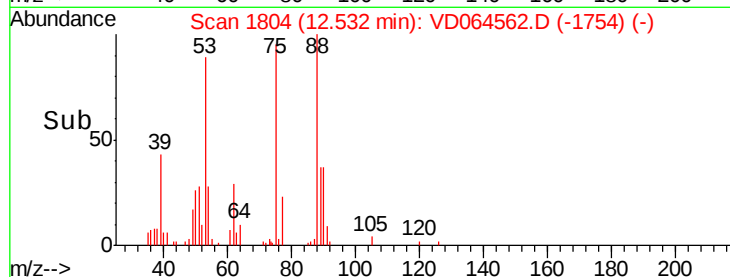
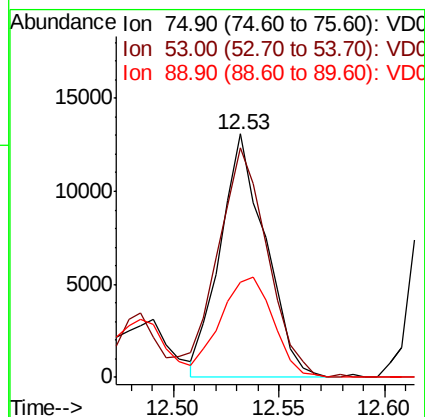
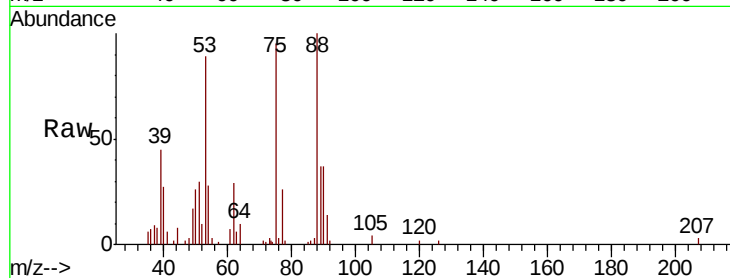
Tot Ion: 75 Resp: 19377

Ion Ratio Lower Upper

75 100

53 104.2 81.0 121.6

89 48.4 38.5 57.7



#82

4-Chlorotoluene

Concen: 19.906 ug/l

RT: 13.01 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VD064562.D

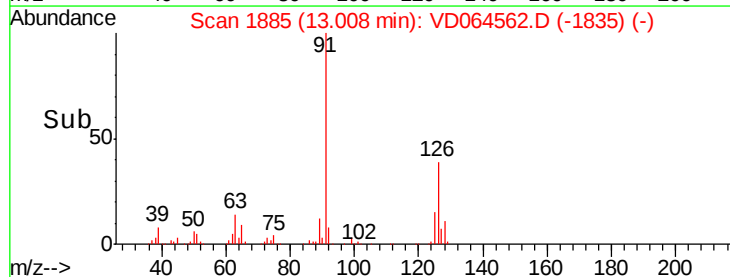
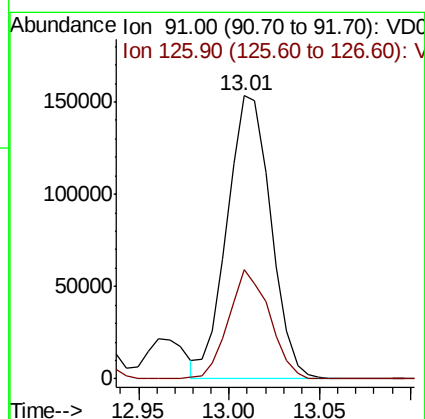
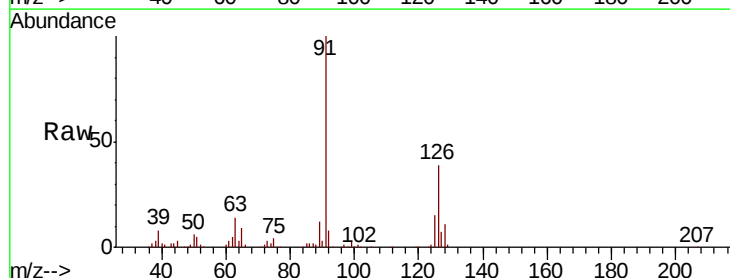
Acq: 23 Dec 2019 12:14

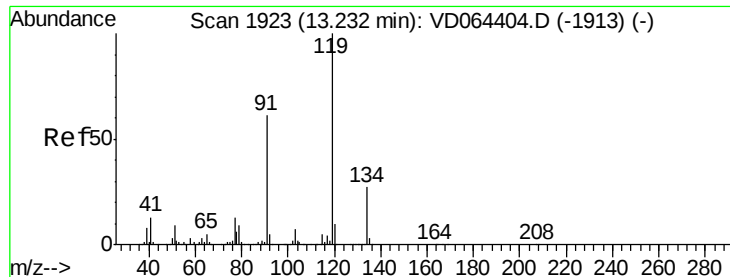
Tgt Ion: 91 Resp: 257009

Ion Ratio Lower Upper

91 100

126 36.3 18.2 54.6





#83

tert-Butylbenzene

Concen: 20.204 ug/l

RT: 13.23 min Scan# 1923

Delta R.T. 0.00 min

Lab File: VD064562.D

Acq: 23 Dec 2019 12:14

Instrument :

MSVOA_D

ClientSampleId :

VD1223SBS01

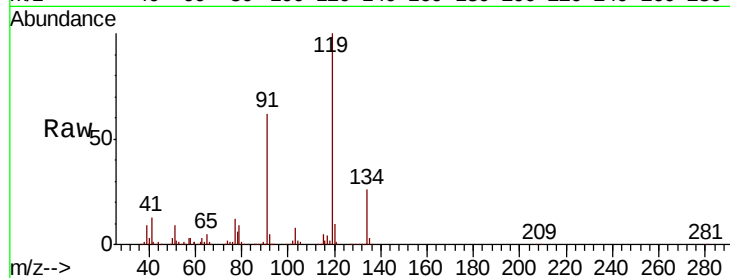
Tot Ion:119 Resp: 275691

Ion Ratio Lower Upper

119 100

91 61.5 31.2 93.6

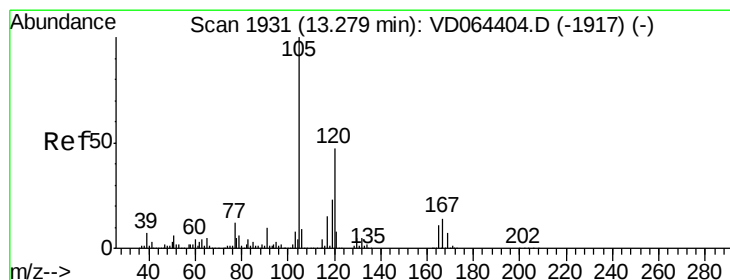
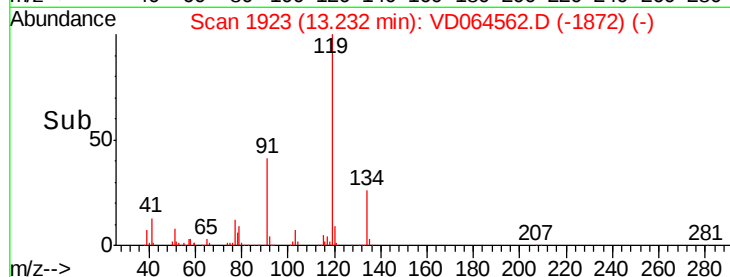
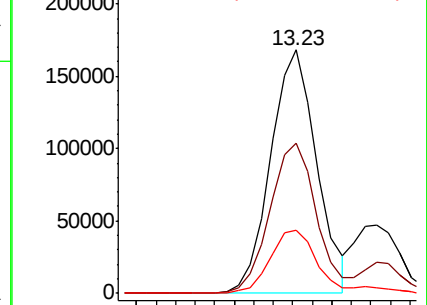
134 26.2 13.9 41.7



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 19.546 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. -0.01 min

Lab File: VD064562.D

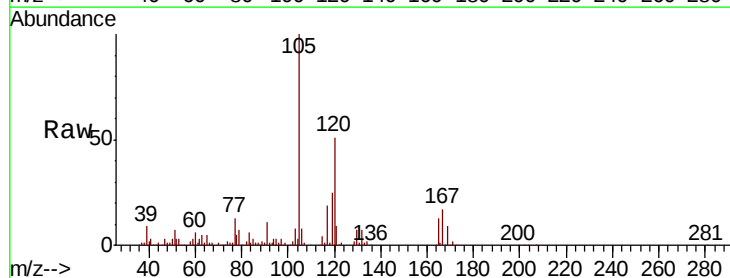
Acq: 23 Dec 2019 12:14

Tgt Ion:105 Resp: 308487

Ion Ratio Lower Upper

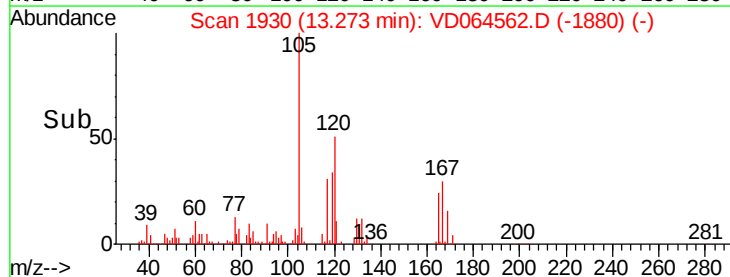
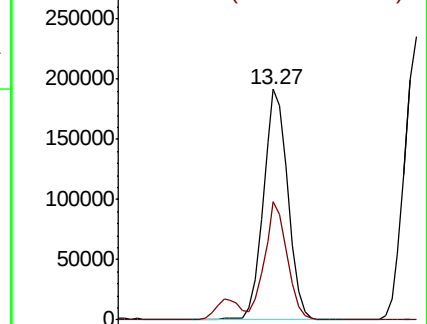
105 100

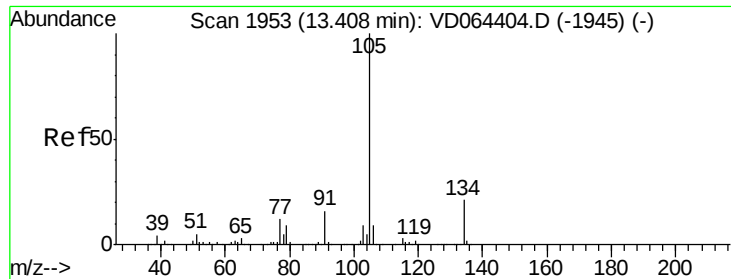
120 47.0 23.6 70.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

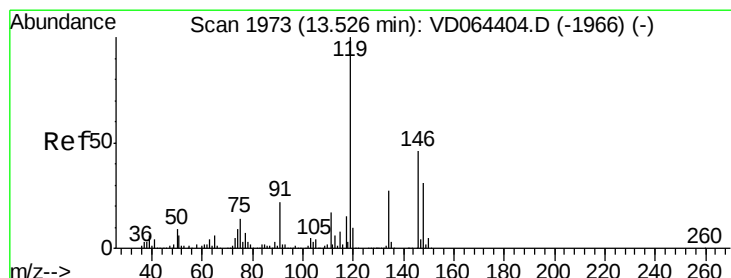
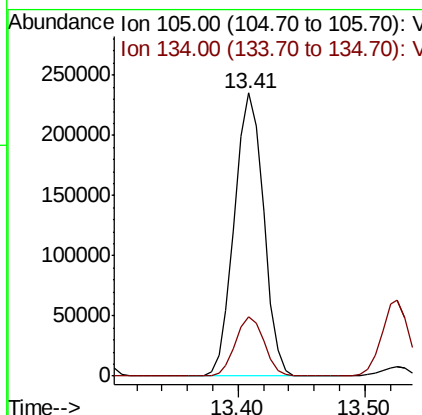
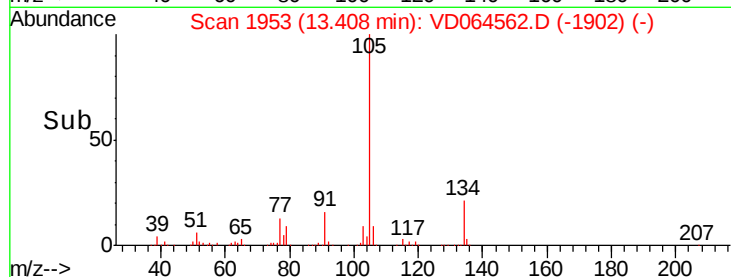
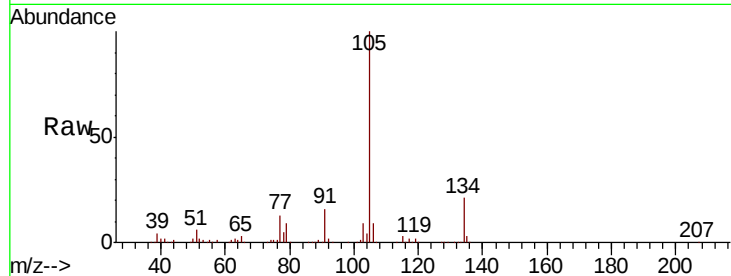




#85
 sec-Butylbenzene
 Concen: 20.059 ug/l
 RT: 13.41 min Scan# 1953
 Delta R.T. 0.00 min
 Lab File: VD064562.D
 Acq: 23 Dec 2019 12:14

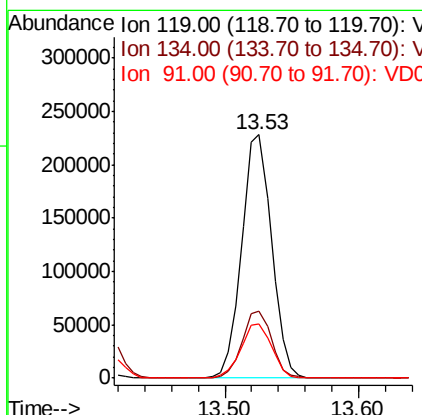
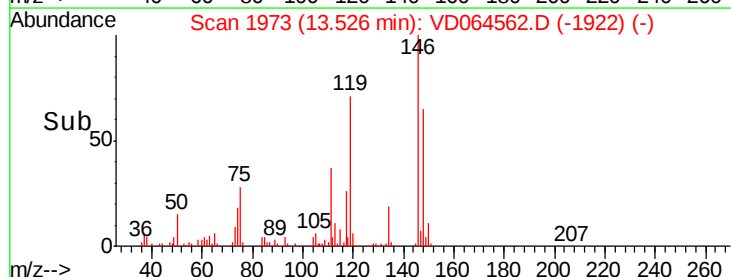
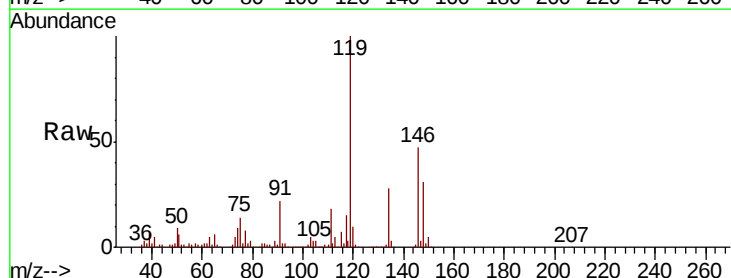
Instrument :
 MSVOA_D
 ClientSampleID :
 VD1223SBS01

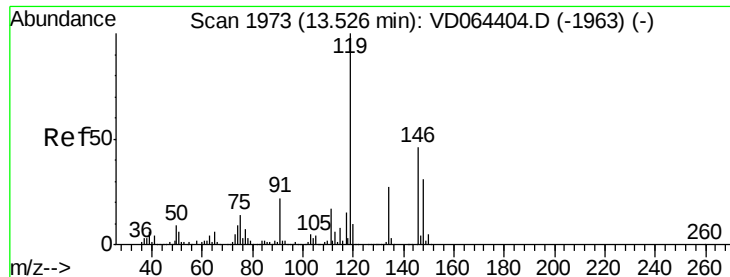
Tot Ion:105 Resp: 375680
 Ion Ratio Lower Upper
 105 100
 134 20.6 10.5 31.5



#86
 p-Isopropyltoluene
 Concen: 19.979 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. 0.00 min
 Lab File: VD064562.D
 Acq: 23 Dec 2019 12:14

Tgt Ion:119 Resp: 353262
 Ion Ratio Lower Upper
 119 100
 134 27.0 13.5 40.4
 91 22.7 11.2 33.5

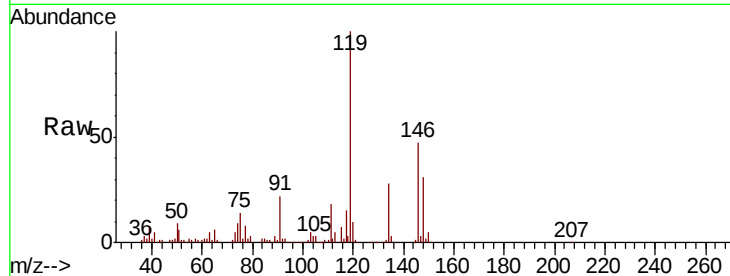




#87
 1,3-Dichlorobenzene
 Concen: 19.715 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. 0.00 min
 Lab File: VD064562.D
 Acq: 23 Dec 2019 12:14

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1223SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.3	18.8	56.4
148	64.2	32.6	97.8

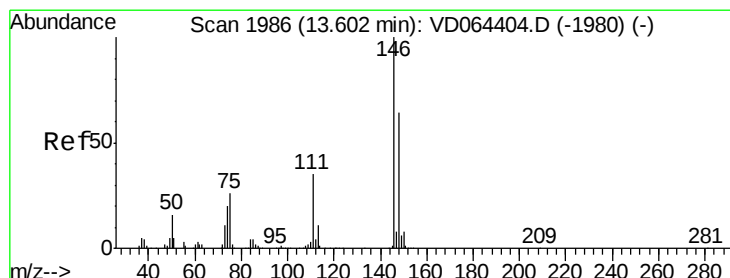
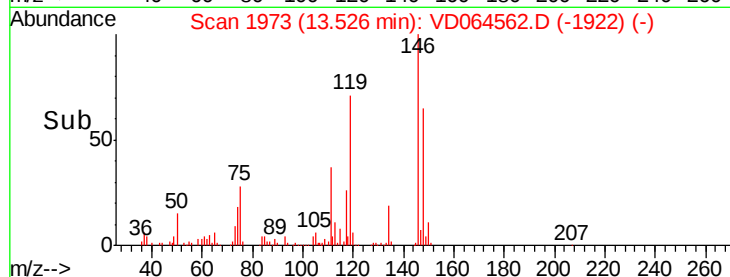
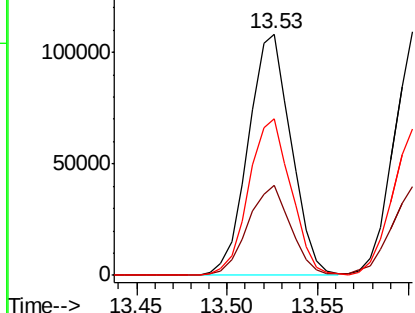


Abundance

Ion 145.90 (145.60 to 146.60): V

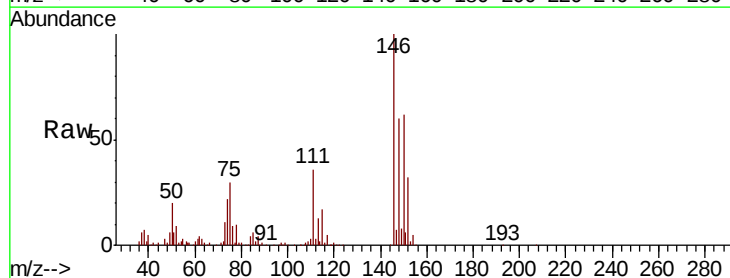
Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88
 1,4-Dichlorobenzene
 Concen: 19.959 ug/l
 RT: 13.60 min Scan# 1986
 Delta R.T. 0.00 min
 Lab File: VD064562.D
 Acq: 23 Dec 2019 12:14

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.2	18.2	54.6
148	63.9	31.8	95.4

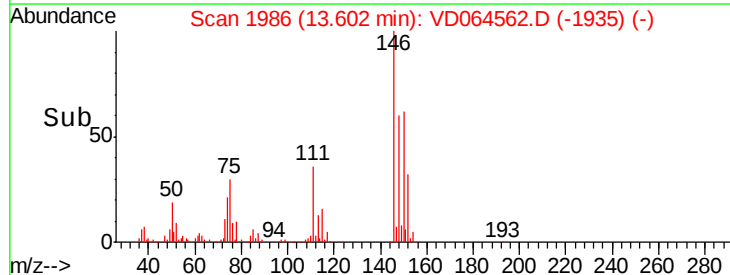
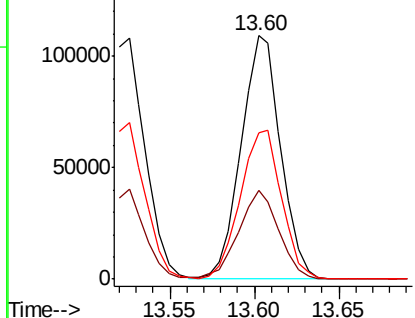


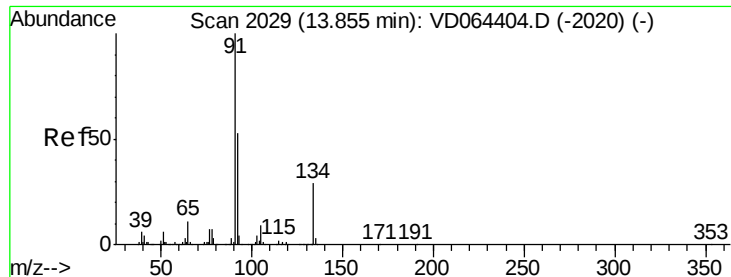
Abundance

Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

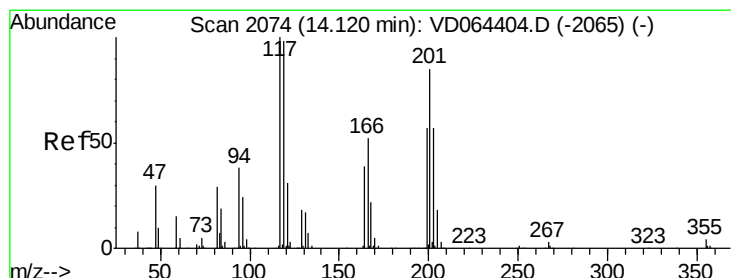
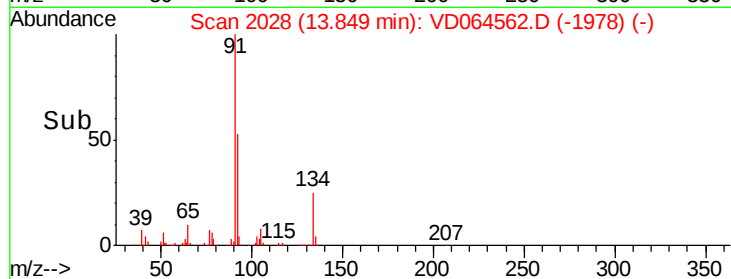
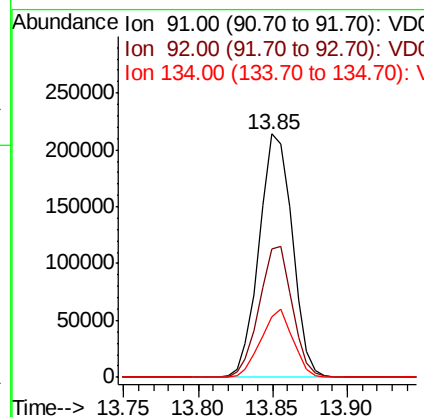
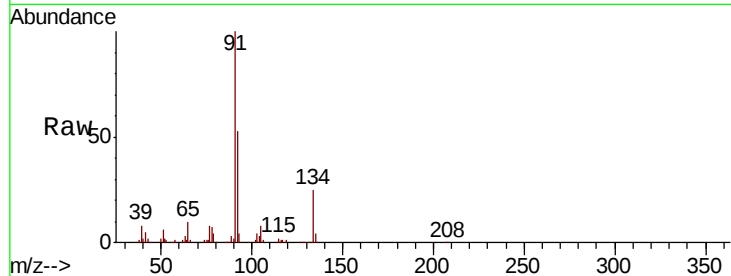




#89
n-Butylbenzene
Concen: 20.403 ug/l
RT: 13.85 min Scan# 2028
Delta R.T. -0.01 min
Lab File: VD064562.D
Acq: 23 Dec 2019 12:14

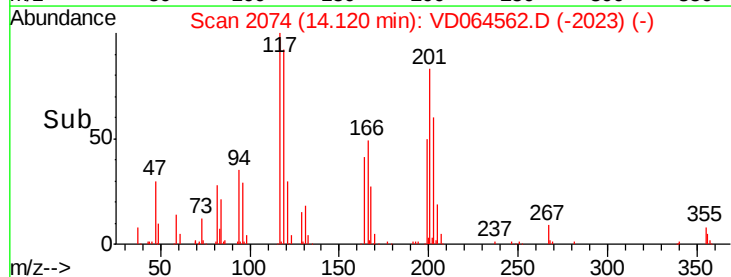
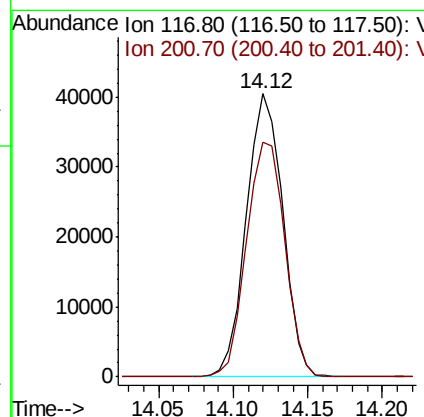
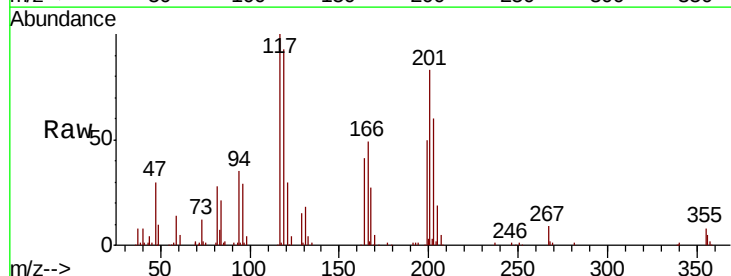
Instrument :
MSVOA_D
ClientSampleId :
VD1223SBSD01

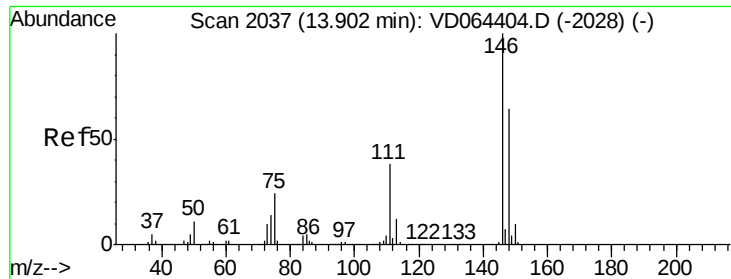
Tot Ion: 91 Resp: 327610
Ion Ratio Lower Upper
91 100
92 53.7 26.5 79.4
134 27.1 13.9 41.7



#90
Hexachloroethane
Concen: 20.688 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. 0.00 min
Lab File: VD064562.D
Acq: 23 Dec 2019 12:14

Tgt Ion: 117 Resp: 68416
Ion Ratio Lower Upper
117 100
201 87.4 44.3 132.8





#91

1,2-Dichlorobenzene

Concen: 19.391 ug/l

RT: 13.90 min Scan# 2036

Delta R.T. -0.01 min

Lab File: VD064562.D

Acq: 23 Dec 2019 12:14

Instrument :

MSVOA_D

ClientSampleId :

VD1223SBS01

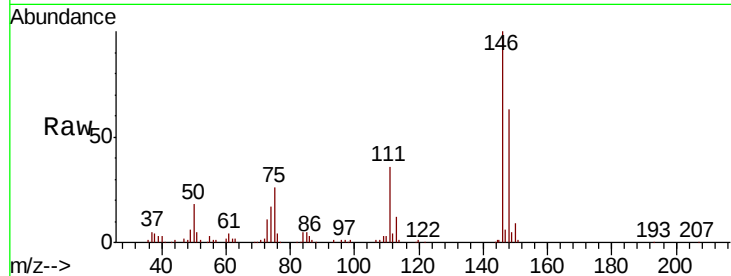
Tot Ion:146 Resp: 149185

Ion Ratio Lower Upper

146 100

111 38.2 19.1 57.3

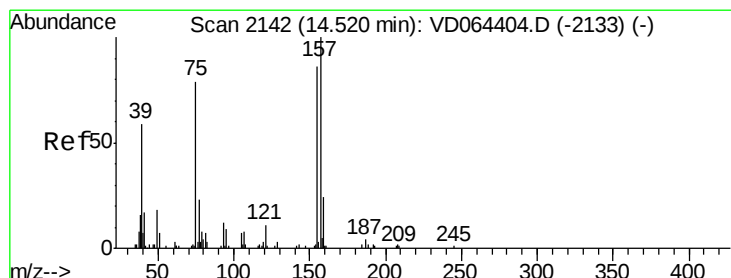
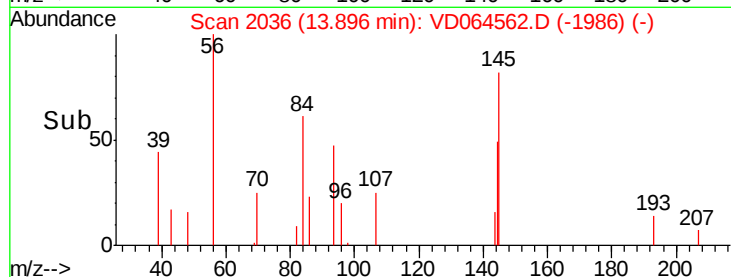
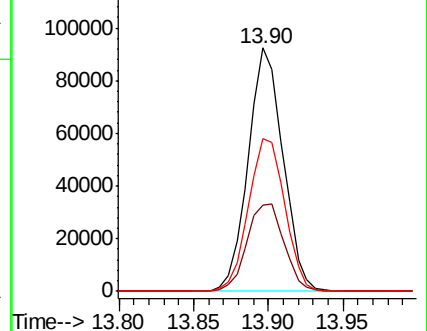
148 65.2 32.0 96.0



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 18.553 ug/l

RT: 14.52 min Scan# 2142

Delta R.T. 0.00 min

Lab File: VD064562.D

Acq: 23 Dec 2019 12:14

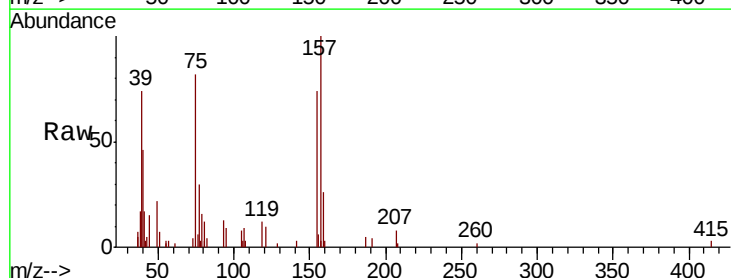
Tgt Ion: 75 Resp: 10113

Ion Ratio Lower Upper

75 100

155 85.0 51.9 155.7

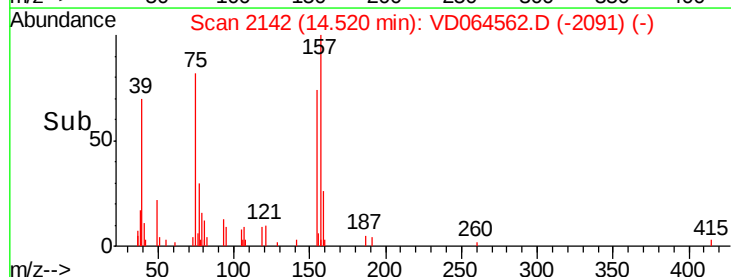
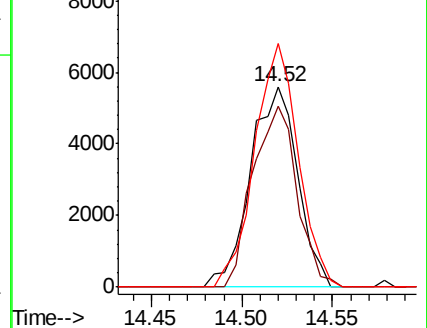
157 112.4 63.2 189.8

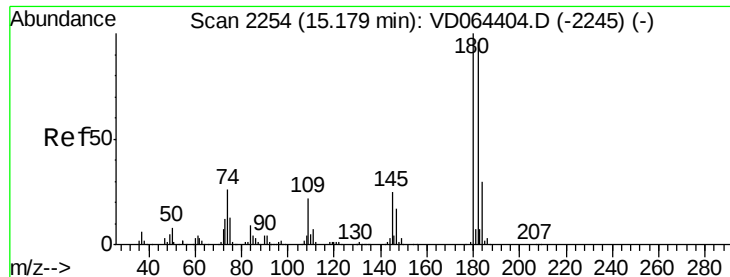


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

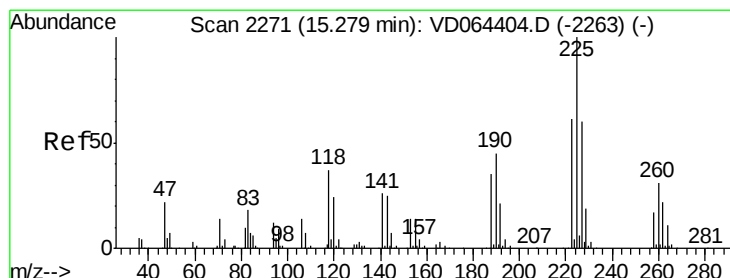
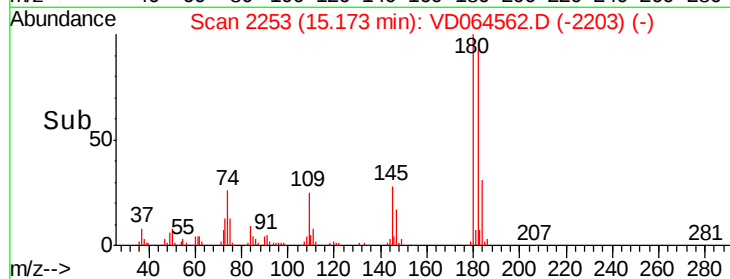
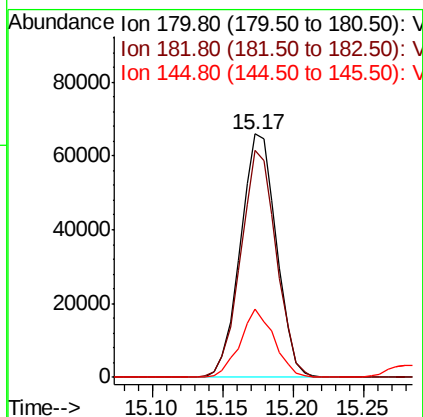
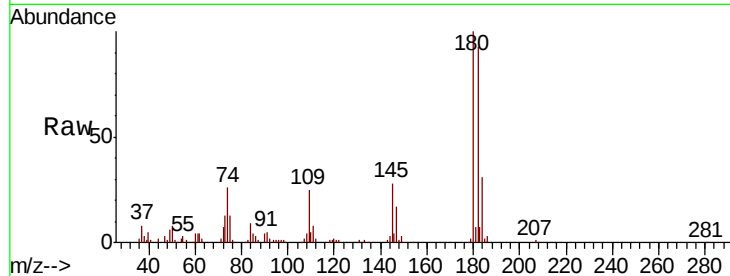




#93
 1,2,4-Trichlorobenzene
 Concen: 19.974 ug/l
 RT: 15.17 min Scan# 2253
 Delta R.T. -0.01 min
 Lab File: VD064562.D
 Acq: 23 Dec 2019 12:14

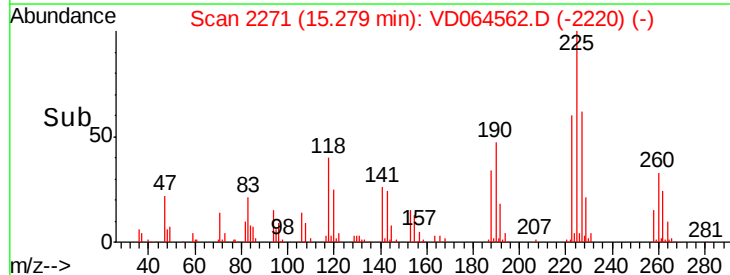
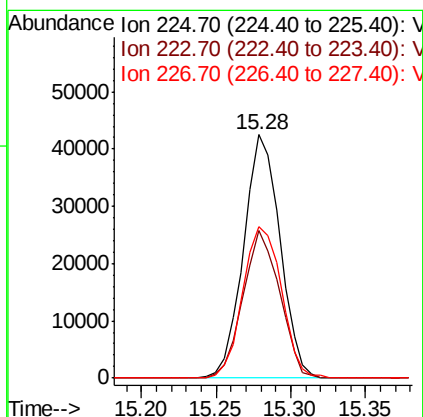
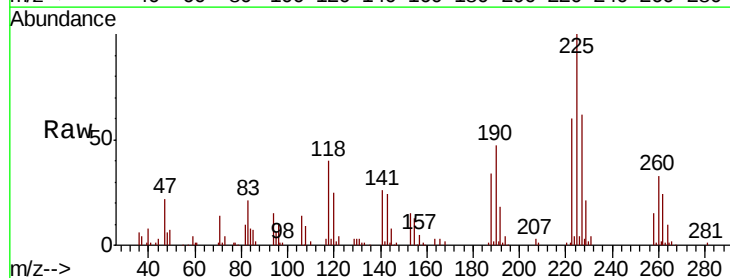
Instrument :
 MSVOA_D
 ClientSampleId :
 VD1223SBSD01

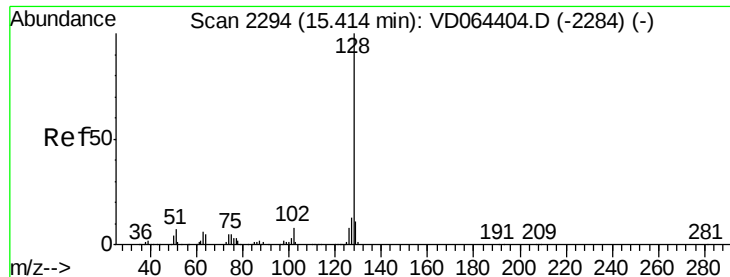
Tot Ion:180 Resp: 117691
 Ion Ratio Lower Upper
 180 100
 182 92.1 47.4 142.3
 145 26.5 14.0 41.9



#94
 Hexachlorobutadiene
 Concen: 19.778 ug/l
 RT: 15.28 min Scan# 2271
 Delta R.T. 0.00 min
 Lab File: VD064562.D
 Acq: 23 Dec 2019 12:14

Tgt Ion:225 Resp: 71940
 Ion Ratio Lower Upper
 225 100
 223 60.8 31.1 93.3
 227 66.0 31.8 95.4





#95

Naphthalene

Concen: 18.506 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. 0.00 min

Lab File: VD064562.D

Acq: 23 Dec 2019 12:14

Instrument :

MSVOA_D

ClientSampleId :

VD1223SBS01

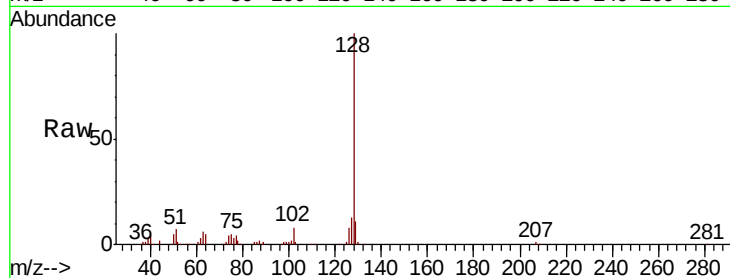
Tot Ion:128 Resp: 181973

Ion Ratio Lower Upper

128 100

127 13.5 10.5 15.7

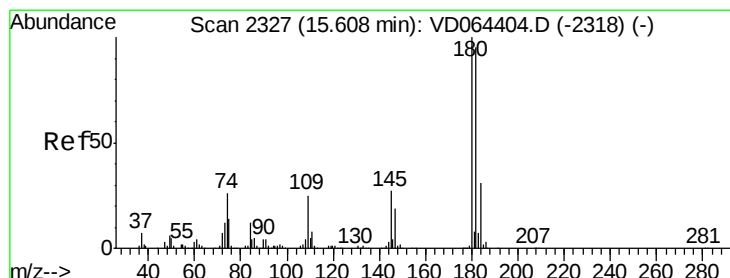
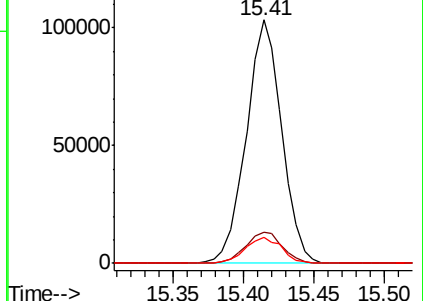
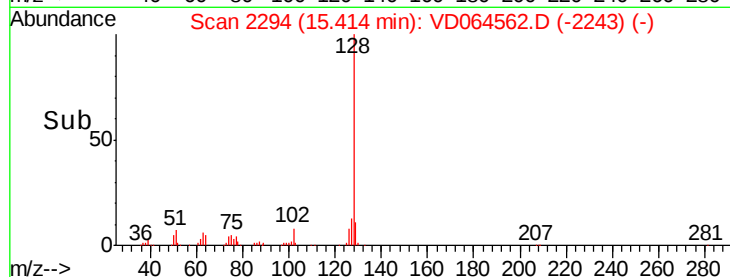
129 10.9 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 19.453 ug/l

RT: 15.61 min Scan# 2327

Delta R.T. 0.00 min

Lab File: VD064562.D

Acq: 23 Dec 2019 12:14

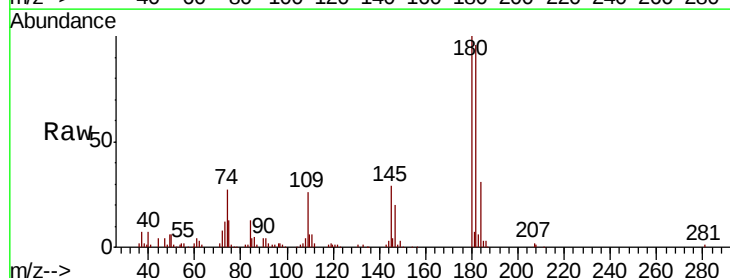
Tgt Ion:180 Resp: 97840

Ion Ratio Lower Upper

180 100

182 94.2 47.6 142.9

145 29.1 14.6 43.8



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

