

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD072919\
 Data File : VD063192.D
 Acq On : 29 Jul 2019 11:42
 Operator : VA/AP
 Sample : VSTDIC010
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC010

Quant Time: Jul 30 02:21:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 30 02:15:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	891211	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	1187175	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	1008883	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	571112	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	93940	9.50	ug/l	0.00
Spiked Amount			Recovery	=	19.00%	
35) Dibromofluoromethane	6.91	113	102545	10.12	ug/l	0.00
Spiked Amount			Recovery	=	20.24%	
50) Toluene-d8	10.40	98	224739	9.91	ug/l	0.00
Spiked Amount			Recovery	=	19.82%	
62) 4-Bromofluorobenzene	13.55	95	109291	10.57	ug/l	0.00
Spiked Amount			Recovery	=	21.14%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.56	85	126937	11.644	ug/l	98
3) Chloromethane	1.73	50	99624	11.767	ug/l	99
4) Vinyl Chloride	1.83	62	94124	10.742	ug/l	98
5) Bromomethane	2.14	94	51725	11.705	ug/l	97
6) Chloroethane	2.25	64	41880	10.353	ug/l	93
7) Trichlorofluoromethane	2.52	101	176352	10.375	ug/l	94
8) Diethyl Ether	2.85	74	24301	10.215	ug/l	87
9) 1,1,2-Trichlorotrifluoroet	3.14	101	104670	11.116	ug/l	94
10) Methyl Iodide	3.29	142	124596	9.160	ug/l	98
11) Tert butyl alcohol	4.05	59	22977	52.648	ug/l #	92
12) 1,1-Dichloroethene	3.11	96	71204	10.301	ug/l	88
13) Acrolein	3.01	56	23376	55.970	ug/l	99
14) Allyl chloride	3.60	41	112599	10.221	ug/l	99
15) Acrylonitrile	4.18	53	57529	51.132	ug/l	98
16) Acetone	3.21	43	90471	46.956	ug/l	98
17) Carbon Disulfide	3.36	76	235795	10.191	ug/l	98
18) Methyl Acetate	3.62	43	43183	11.668	ug/l	98
19) Methyl tert-butyl Ether	4.22	73	152394	9.760	ug/l	99
20) Methylene Chloride	3.79	84	90011	11.558	ug/l	89
21) trans-1,2-Dichloroethene	4.19	96	75175	9.692	ug/l	90
22) Diisopropyl ether	5.10	45	214129	9.723	ug/l	98
23) Vinyl Acetate	5.03	43	681794	50.414	ug/l	97
24) 1,1-Dichloroethane	4.95	63	149065	10.607	ug/l	96
25) 2-Butanone	6.05	43	96251	49.777	ug/l	98
26) 2,2-Dichloropropane	6.00	77	141308	9.757	ug/l	93
27) cis-1,2-Dichloroethene	6.02	96	85938	10.334	ug/l	86
28) Bromochloromethane	6.42	49	60444	10.776	ug/l	82
29) Tetrahydrofuran	6.45	42	49978	54.592	ug/l	96
30) Chloroform	6.64	83	183013	10.494	ug/l	91
31) Cyclohexane	6.94	56	90841	10.313	ug/l	96
32) 1,1,1-Trichloroethane	6.86	97	182633	10.827	ug/l	96
36) 1,1-Dichloropropene	7.13	75	116815	10.782	ug/l	95
37) Ethyl Acetate	6.17	43	53031	10.917	ug/l #	95
38) Carbon Tetrachloride	7.10	117	172010	10.546	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.86	83	101781	11.275	ug/l	91
40) Benzene	7.44	78	238250	10.492	ug/l	98
41) Methacrylonitrile	6.44	41	60792	10.441	ug/l #	59
42) 1,2-Dichloroethane	7.57	62	132892	11.043	ug/l	92
43) Isopropyl Acetate	9.23	43	65237	10.492	ug/l #	96
44) Trichloroethene	8.53	130	100492	10.922	ug/l	100
45) 1,2-Dichloropropane	8.94	63	66300	11.487	ug/l #	85
46) Dibromomethane	9.06	93	50940	10.615	ug/l #	79
47) Bromodichloromethane	9.37	83	128346	10.492	ug/l	96
48) Methyl methacrylate	9.12	41	39688	9.842	ug/l	94
49) 1,4-Dioxane	9.08	88	8066	241.766	ug/l #	85
51) 4-Methyl-2-Pentanone	10.30	43	224509	53.093	ug/l	98
52) Toluene	10.50	92	159141	10.537	ug/l	95
53) t-1,3-Dichloropropene	10.91	75	107435	10.187	ug/l	96
54) cis-1,3-Dichloropropene	10.03	75	124331	11.217	ug/l #	96
55) 1,1,2-Trichloroethane	11.18	97	53136	10.418	ug/l	98
56) Ethyl methacrylate	11.04	69	56747	10.160	ug/l	93
57) 1,3-Dichloropropane	11.41	76	88372	10.996	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.85	63	166864	57.415	ug/l	100
59) 2-Hexanone	11.53	43	162927	53.466	ug/l	94
60) Dibromochloromethane	11.68	129	101233	10.513	ug/l	99
61) 1,2-Dibromoethane	11.80	107	62787	9.976	ug/l	95
64) Tetrachloroethene	11.25	164	89665	11.156	ug/l	98
65) Chlorobenzene	12.40	112	205944	10.613	ug/l	98
66) 1,1,1,2-Tetrachloroethane	12.51	131	92218	10.788	ug/l	96
67) Ethyl Benzene	12.52	91	364609	11.060	ug/l	100
68) m/p-Xylenes	12.67	106	262428	21.707	ug/l	89
69) o-Xylene	13.05	106	115125	10.370	ug/l	97
70) Styrene	13.07	104	207627	10.546	ug/l	97
71) Bromoform	13.24	173	60849	9.789	ug/l	99
73) Isopropylbenzene	13.41	105	385734	10.761	ug/l	99
74) N-amyl acetate	13.27	43	92908	9.805	ug/l #	94
75) 1,1,2,2-Tetrachloroethane	13.70	83	58597	9.624	ug/l	96
76) 1,2,3-Trichloropropane	13.74	75	71421	10.412	ug/l	92
77) Bromobenzene	13.67	156	100932	9.885	ug/l	90
78) n-propylbenzene	13.78	91	440688	10.331	ug/l	99
79) 2-Chlorotoluene	13.84	91	265095	10.725	ug/l	90
80) 1,3,5-Trimethylbenzene	13.94	105	323155	10.453	ug/l	97
81) trans-1,4-Dichloro-2-buten	13.48	75	19598	10.289	ug/l #	93
82) 4-Chlorotoluene	13.95	91	314262	10.804	ug/l	93
83) tert-Butylbenzene	14.19	119	361297	10.235	ug/l	90
84) 1,2,4-Trimethylbenzene	14.24	105	328935	10.286	ug/l	97
85) sec-Butylbenzene	14.37	105	402841	10.831	ug/l	98
86) p-Isopropyltoluene	14.49	119	370221	10.430	ug/l	96
87) 1,3-Dichlorobenzene	14.46	146	185183	10.241	ug/l	97
88) 1,4-Dichlorobenzene	14.54	146	193709	10.593	ug/l	93
89) n-Butylbenzene	14.80	91	328253	10.707	ug/l	99
90) Hexachloroethane	15.01	117	91891	9.936	ug/l	93
91) 1,2-Dichlorobenzene	14.81	146	164492	10.440	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	15.39	75	12604	10.163	ug/l	86

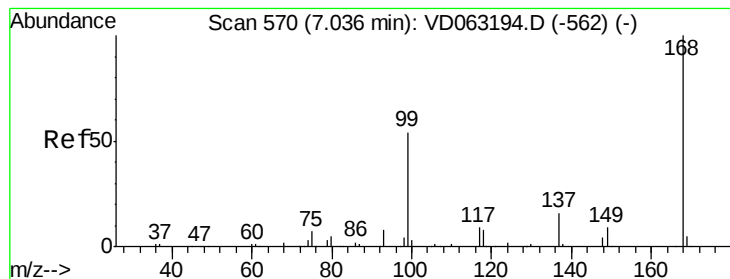
Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD072919\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.95	180	126854	10.149	ug/l	98
94) Hexachlorobutadiene	16.05	225	94862	10.473	ug/l	94
95) Naphthalene	16.12	128	165590	9.373	ug/l	99
96) 1,2,3-Trichlorobenzene	16.27	180	93006	9.419	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.00 min

Lab File: VD063192.D

Acq: 29 Jul 2019 11:42

Instrument :

MSVOA_D

ClientSampleId :

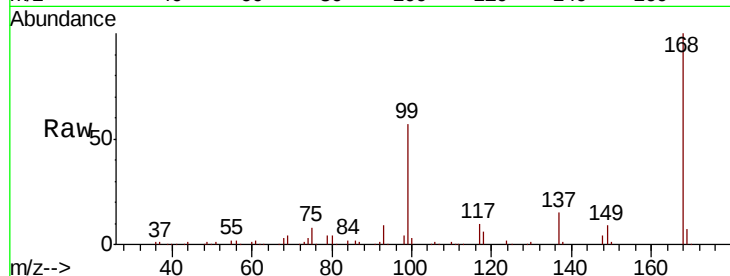
VSTDIC010

Tot Ion:168 Resp: 891211

Ion Ratio Lower Upper

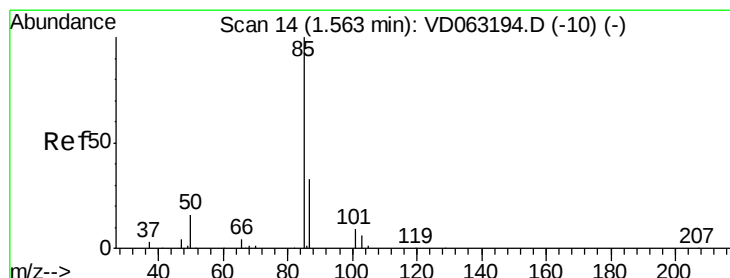
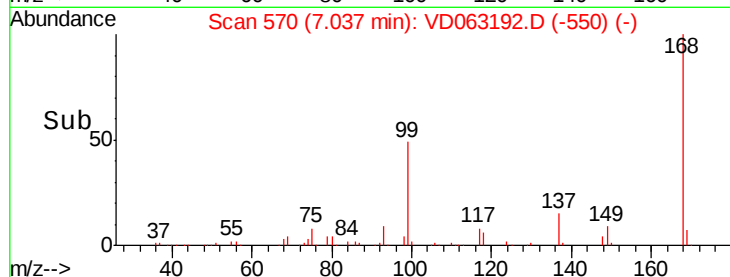
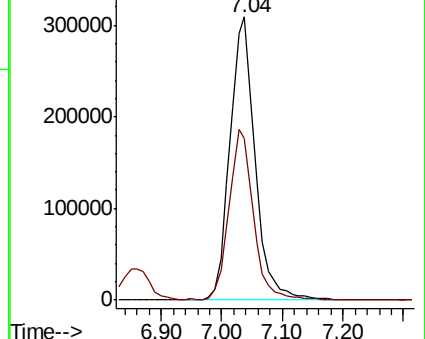
168 100

99 57.2 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 11.644 ug/l

RT: 1.56 min Scan# 14

Delta R.T. 0.00 min

Lab File: VD063192.D

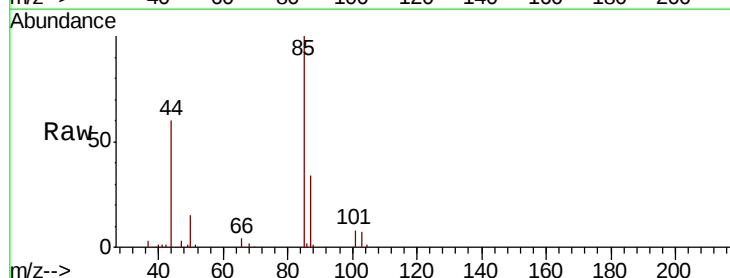
Acq: 29 Jul 2019 11:42

Tgt Ion: 85 Resp: 126937

Ion Ratio Lower Upper

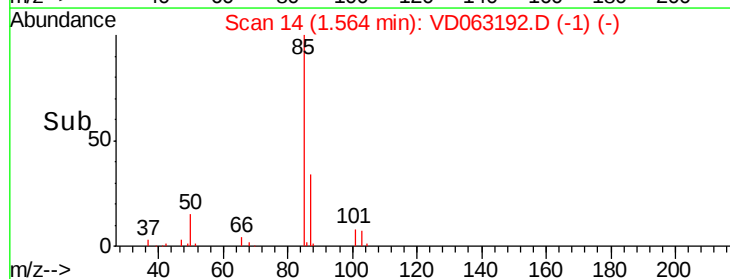
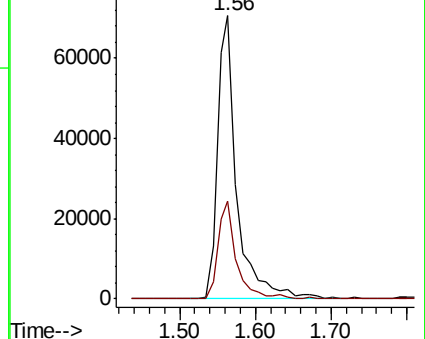
85 100

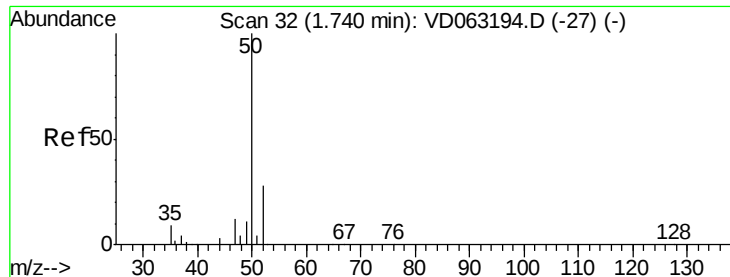
87 34.3 16.6 49.7



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 11.767 ug/l

RT: 1.73 min Scan# 31

Delta R.T. -0.01 min

Lab File: VD063192.D

Acq: 29 Jul 2019 11:42

Instrument :

MSVOA_D

ClientSampleId :

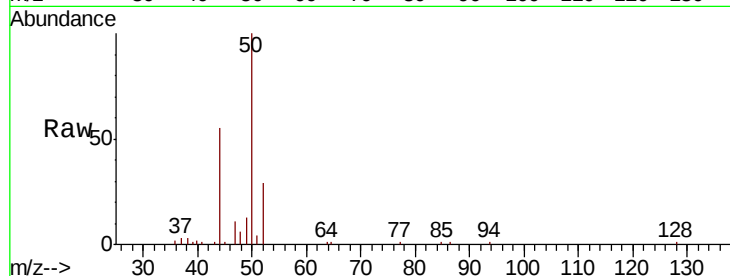
VSTDIC010

Tot Ion: 50 Resp: 99624

Ion Ratio Lower Upper

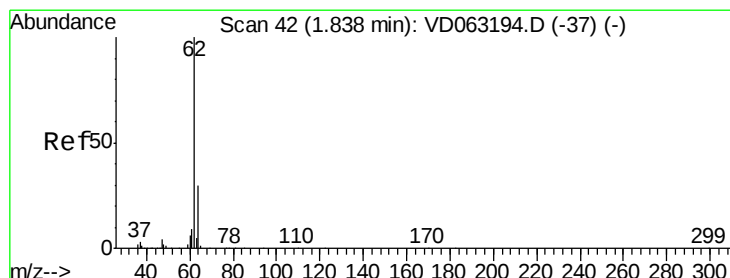
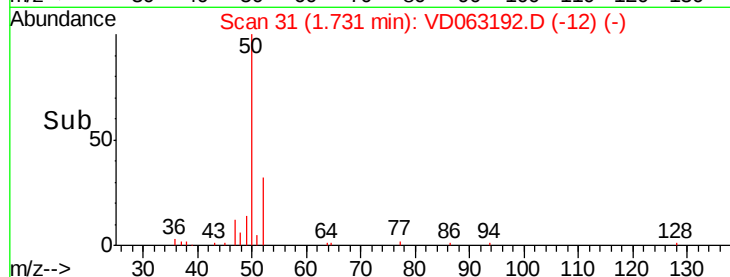
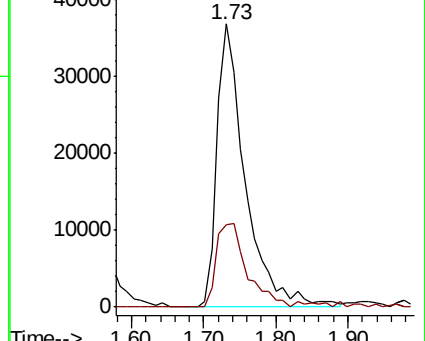
50 100

52 29.0 22.6 34.0



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 10.742 ug/l

RT: 1.83 min Scan# 41

Delta R.T. -0.01 min

Lab File: VD063192.D

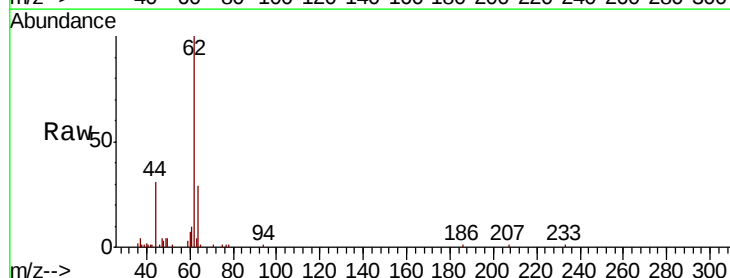
Acq: 29 Jul 2019 11:42

Tgt Ion: 62 Resp: 94124

Ion Ratio Lower Upper

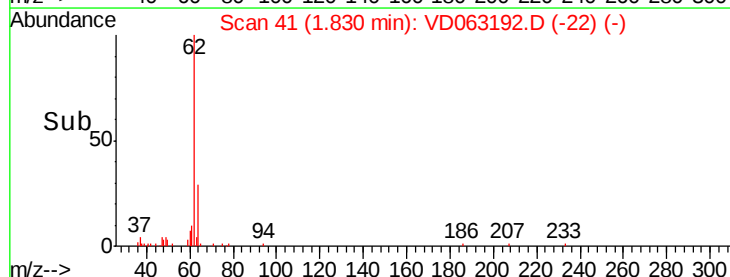
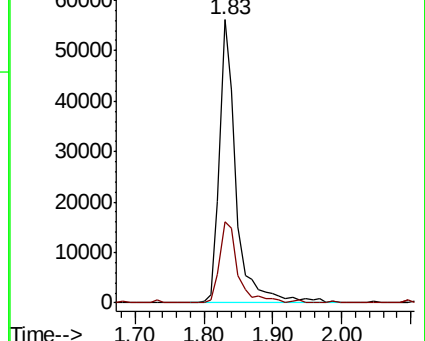
62 100

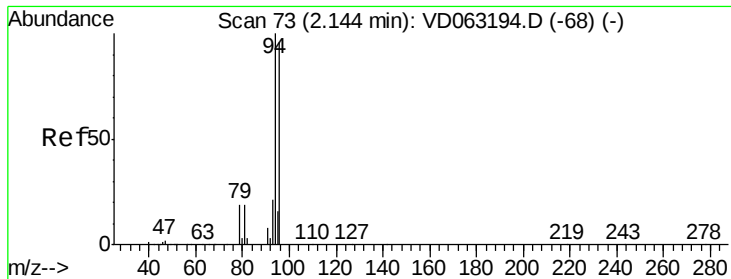
64 28.9 24.1 36.1



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 11.705 ug/l

RT: 2.14 min Scan# 72

Delta R.T. -0.01 min

Lab File: VD063192.D

Acq: 29 Jul 2019 11:42

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC010

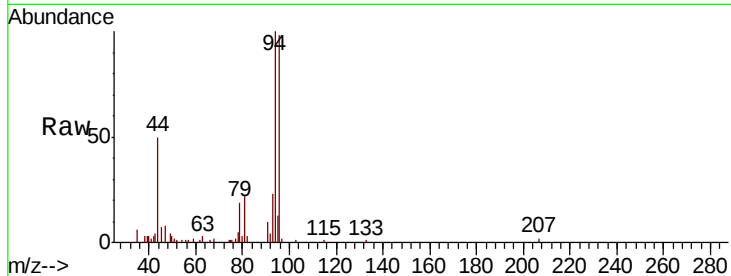
Tot Ion: 94 Resp: 51725

Ion Ratio Lower Upper

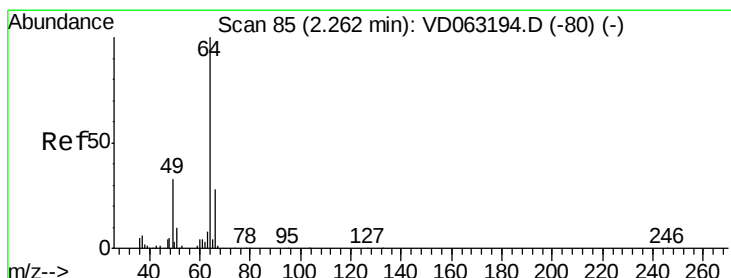
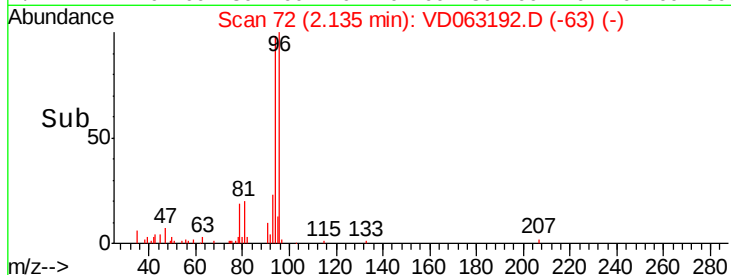
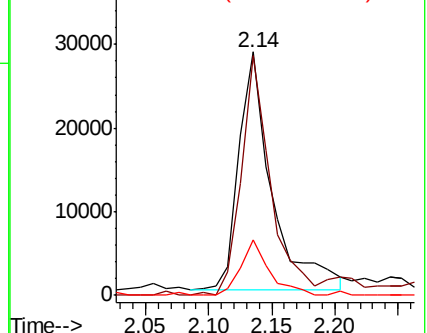
94 100

96 98.3 76.4 114.6

93 22.8 17.3 25.9



Abundance Ion 94.00 (93.70 to 94.70): VDC
Ion 96.00 (95.70 to 96.70): VDC
Ion 93.00 (92.70 to 93.70): VDC



#6

Chloroethane

Concen: 10.353 ug/l

RT: 2.25 min Scan# 84

Delta R.T. -0.01 min

Lab File: VD063192.D

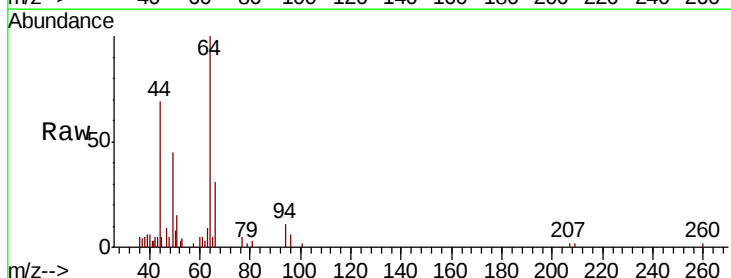
Acq: 29 Jul 2019 11:42

Tgt Ion: 64 Resp: 41880

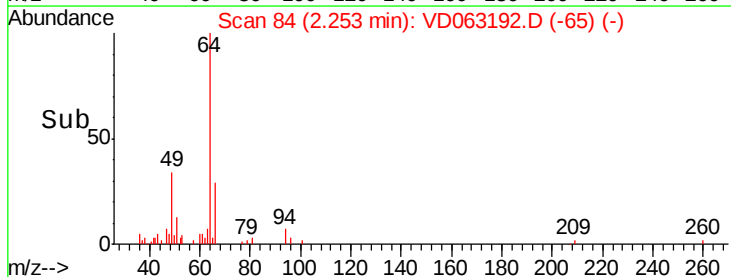
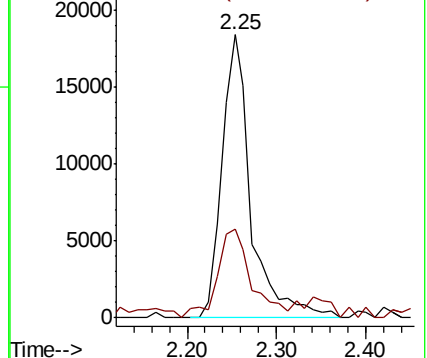
Ion Ratio Lower Upper

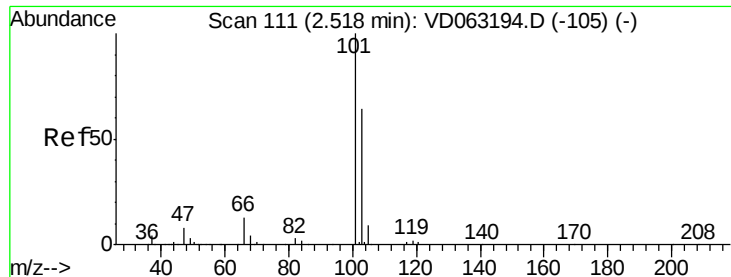
64 100

66 31.2 22.2 33.2



Abundance Ion 63.95 (63.65 to 64.65): VDC
Ion 65.90 (65.60 to 66.60): VDC



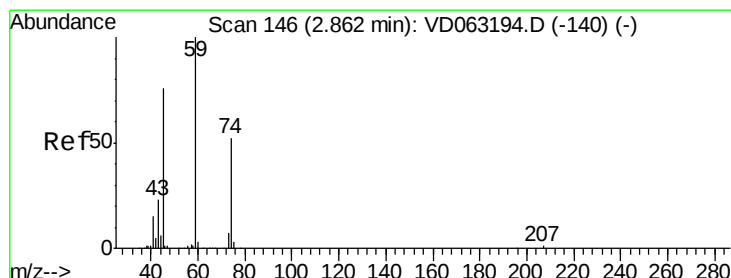
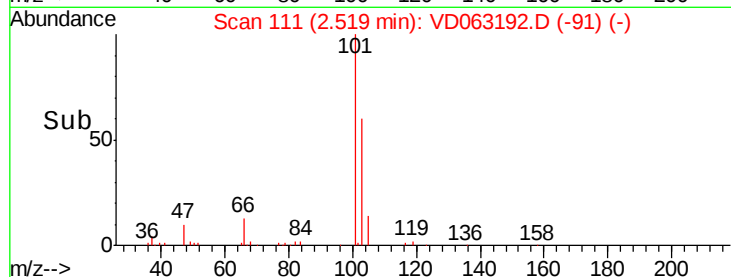
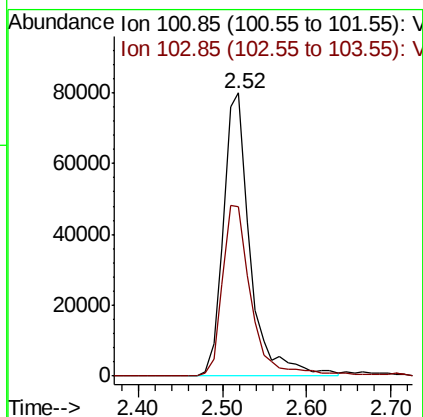
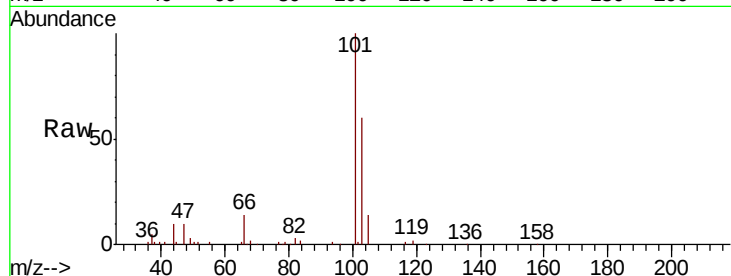


#7

Trichlorofluoromethane
Concen: 10.375 ug/l
RT: 2.52 min Scan# 111
Delta R.T. 0.00 min
Lab File: VD063192.D
Acq: 29 Jul 2019 11:42

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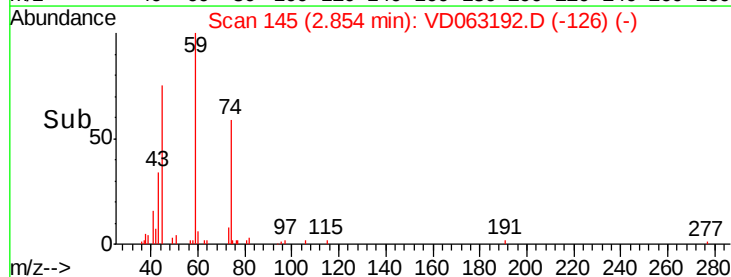
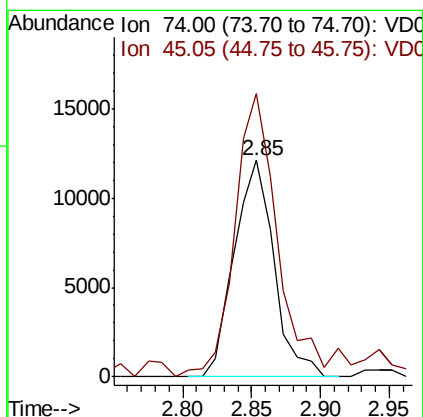
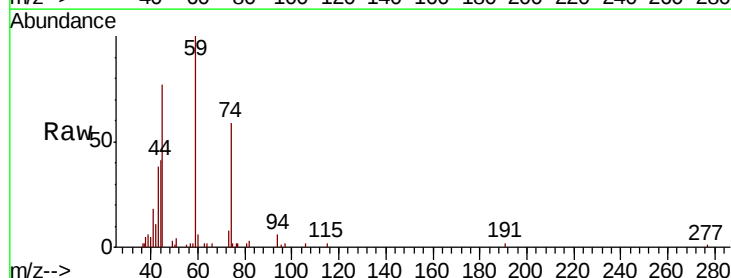
Tot Ion:101 Resp: 176352
Ion Ratio Lower Upper
101 100
103 60.1 51.5 77.3

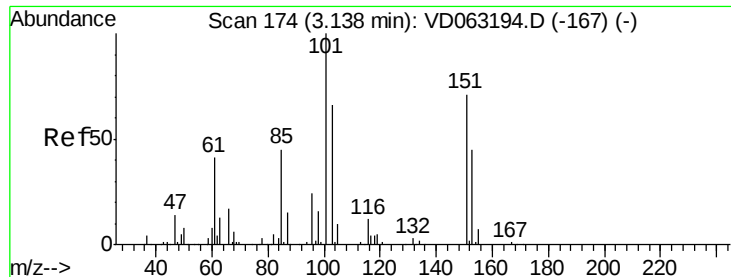


#8

Diethyl Ether
Concen: 10.215 ug/l
RT: 2.85 min Scan# 145
Delta R.T. -0.01 min
Lab File: VD063192.D
Acq: 29 Jul 2019 11:42

Tgt Ion: 74 Resp: 24301
Ion Ratio Lower Upper
74 100
45 130.6 73.6 220.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 11.116 ug/l

RT: 3.14 min Scan# 174

Delta R.T. 0.00 min

Lab File: VD063192.D

Acq: 29 Jul 2019 11:42

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC010

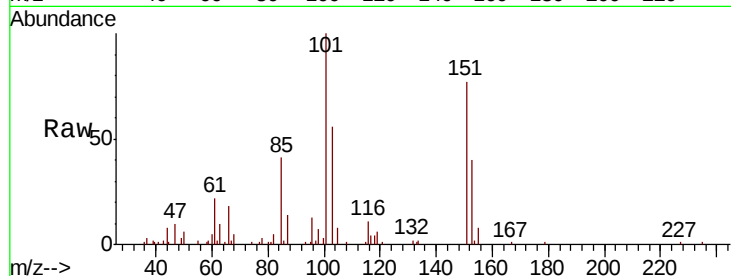
Tot Ion:101 Resp: 104670

Ion Ratio Lower Upper

101 100

85 40.8 36.1 54.1

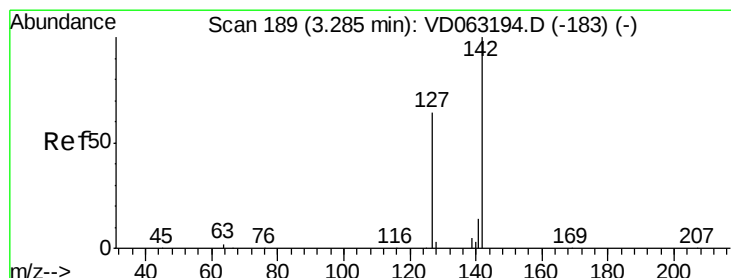
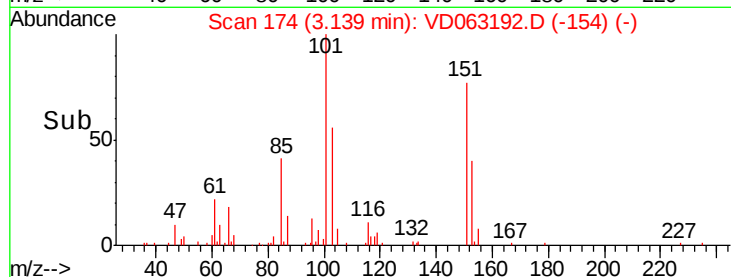
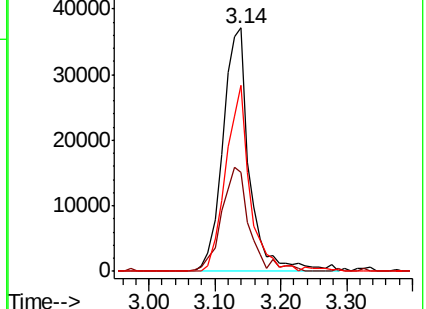
151 76.5 57.1 85.7



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 9.160 ug/l

RT: 3.29 min Scan# 189

Delta R.T. 0.00 min

Lab File: VD063192.D

Acq: 29 Jul 2019 11:42

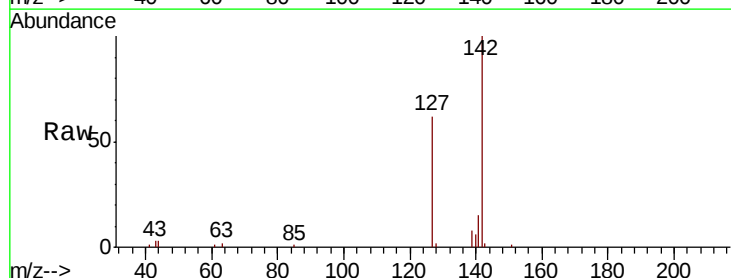
Tgt Ion:142 Resp: 124596

Ion Ratio Lower Upper

142 100

127 61.7 50.8 76.2

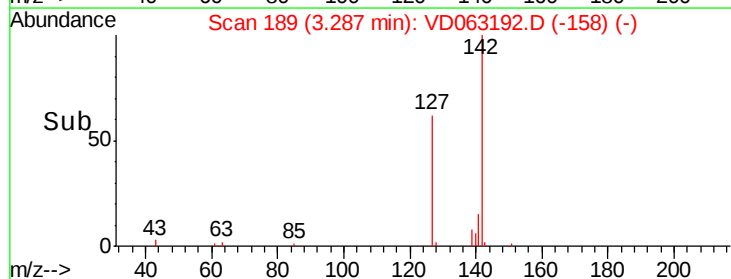
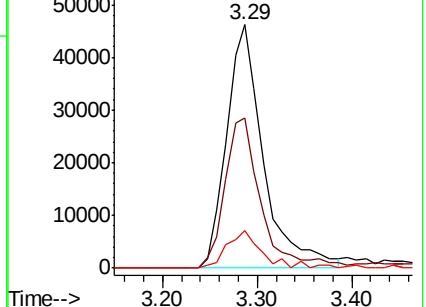
141 15.2 11.4 17.2

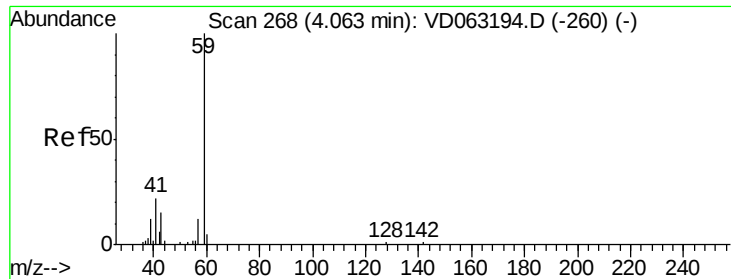


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

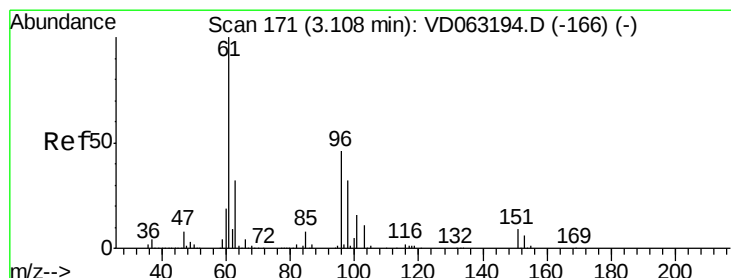
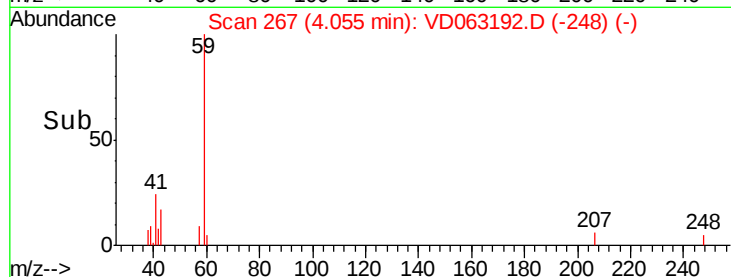
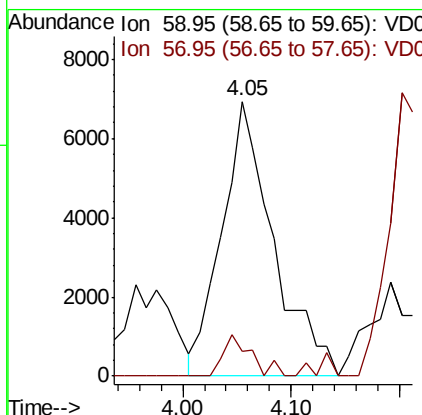
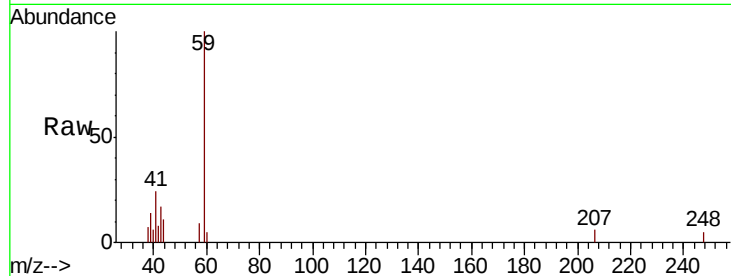




#11
Tert butyl alcohol
Concen: 52.648 ug/l
RT: 4.05 min Scan# 267
Delta R.T. -0.01 min
Lab File: VD063192.D
Acq: 29 Jul 2019 11:42

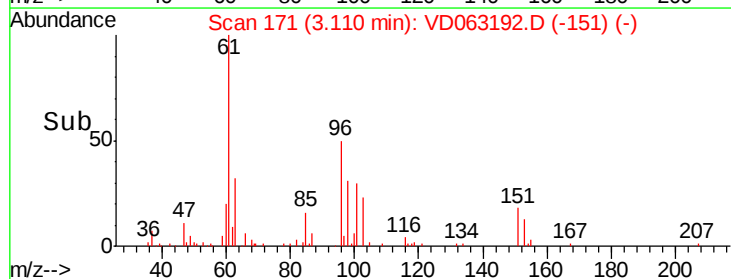
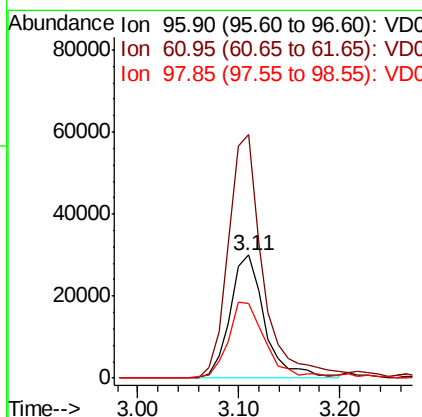
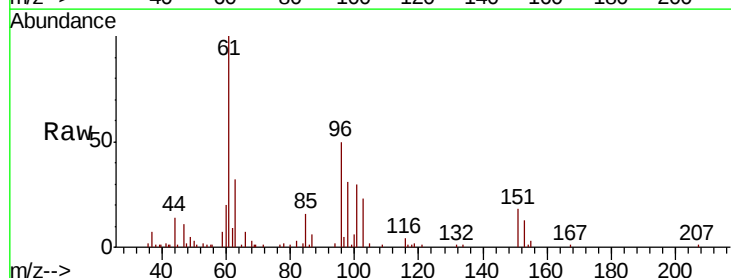
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

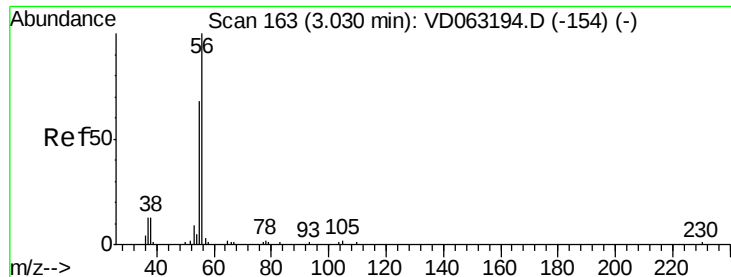
Tot Ion: 59 Resp: 22977
Ion Ratio Lower Upper
59 100
57 9.0 9.6 14.4#



#12
1,1-Dichloroethene
Concen: 10.301 ug/l
RT: 3.11 min Scan# 171
Delta R.T. 0.00 min
Lab File: VD063192.D
Acq: 29 Jul 2019 11:42

Tgt Ion: 96 Resp: 71204
Ion Ratio Lower Upper
96 100
61 198.4 173.7 260.5
98 60.8 55.8 83.8





#13

Acrolein

Concen: 55.970 ug/l

RT: 3.01 min Scan# 161

Delta R.T. -0.02 min

Lab File: VD063192.D

Acq: 29 Jul 2019 11:42

Instrument :

MSVOA_D

ClientSampleId :

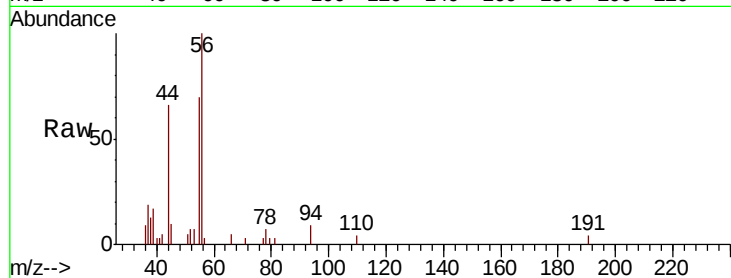
VSTDIC010

Tot Ion: 56 Resp: 23376

Ion Ratio Lower Upper

56 100

55 70.3 55.3 82.9



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

12000

10000

8000

6000

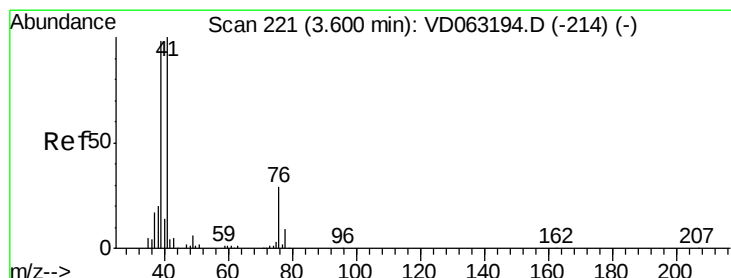
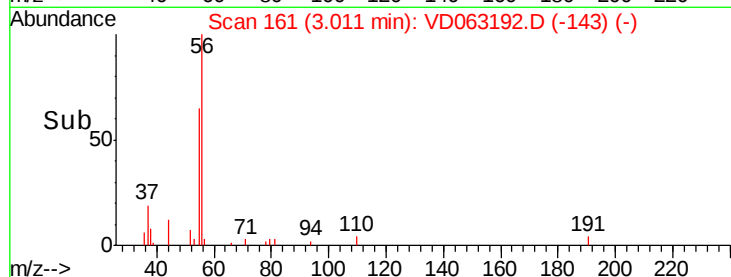
4000

2000

0

Time--> 2.90 3.00 3.10

3.01



#14

Allyl chloride

Concen: 10.221 ug/l

RT: 3.60 min Scan# 221

Delta R.T. 0.00 min

Lab File: VD063192.D

Acq: 29 Jul 2019 11:42

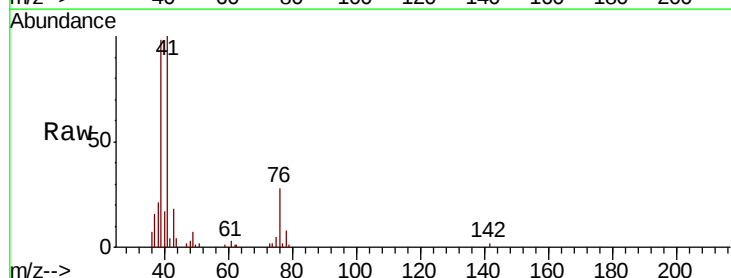
Tgt Ion: 41 Resp: 112599

Ion Ratio Lower Upper

41 100

39 98.4 78.6 117.8

76 27.7 24.5 36.7



Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC

60000

50000

40000

30000

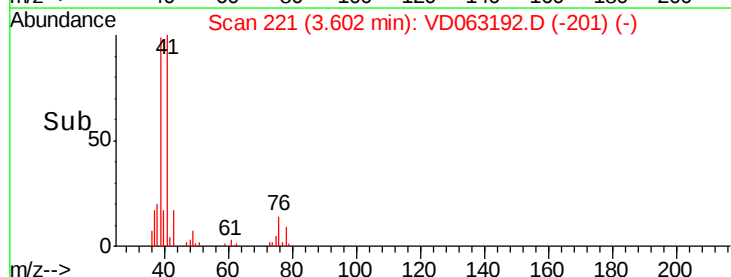
20000

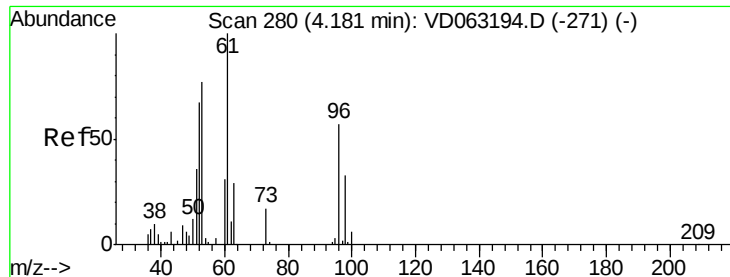
10000

0

Time--> 3.50 3.60 3.70 3.80

3.60





#15

Acrylonitrile

Concen: 51.132 ug/l

RT: 4.18 min Scan# 280

Delta R.T. 0.00 min

Lab File: VD063192.D

Acq: 29 Jul 2019 11:42

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC010

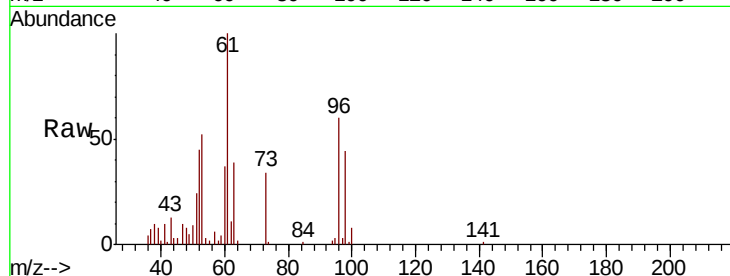
Tot Ion: 53 Resp: 57529

Ion Ratio Lower Upper

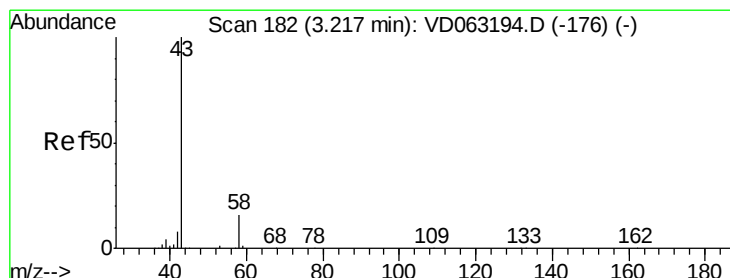
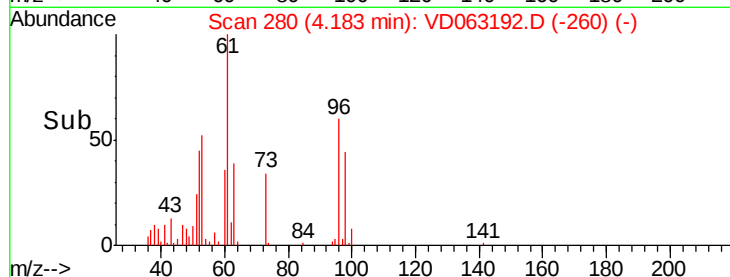
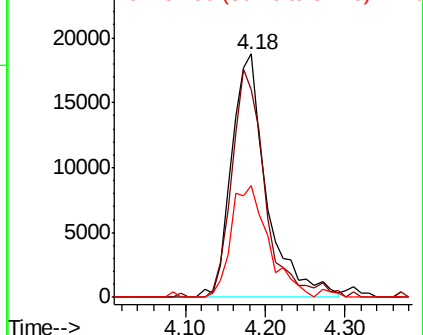
53 100

52 85.5 69.7 104.5

51 46.0 37.4 56.0



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: 46.956 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.01 min

Lab File: VD063192.D

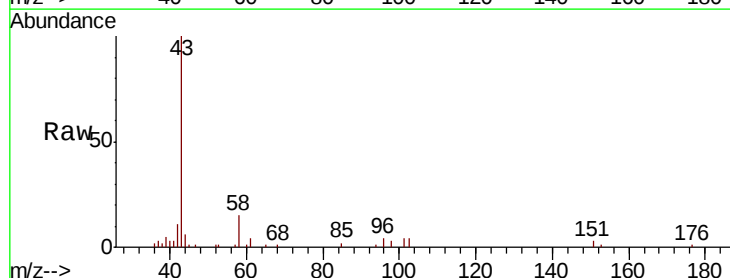
Acq: 29 Jul 2019 11:42

Tgt Ion: 43 Resp: 90471

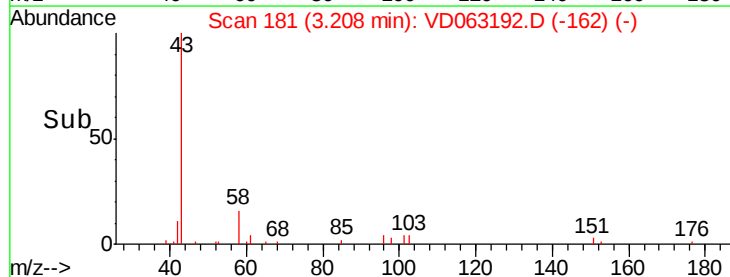
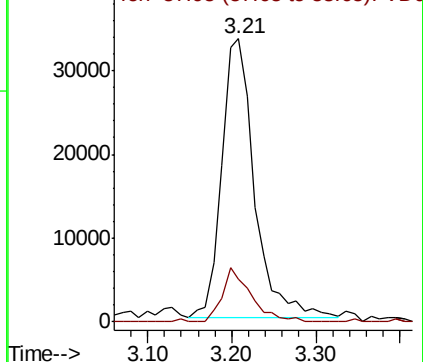
Ion Ratio Lower Upper

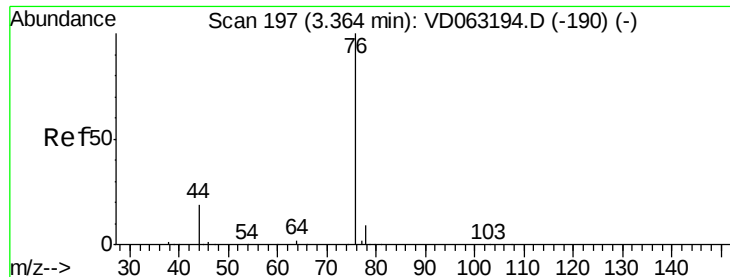
43 100

58 15.3 13.0 19.4



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

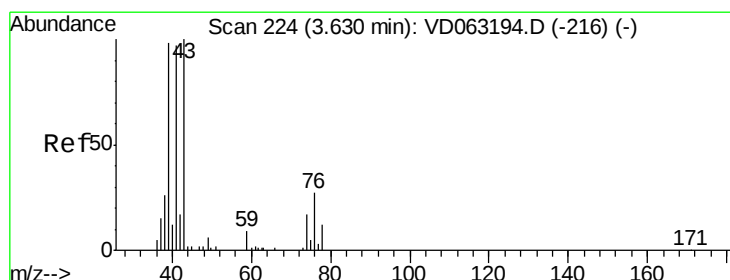
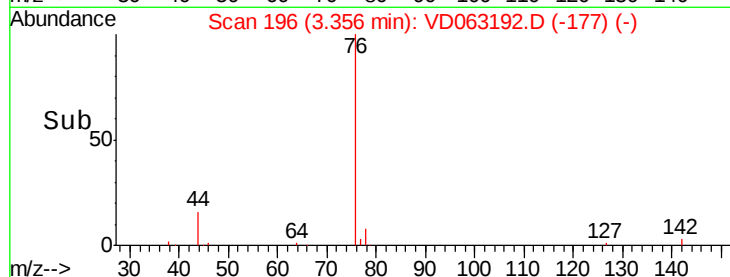
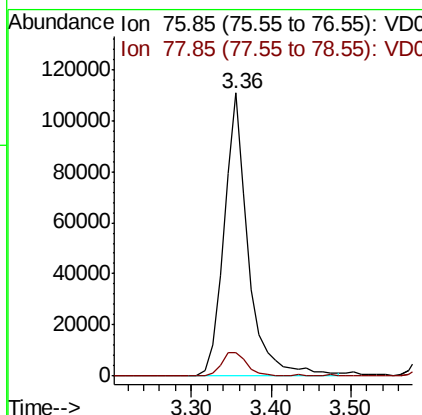
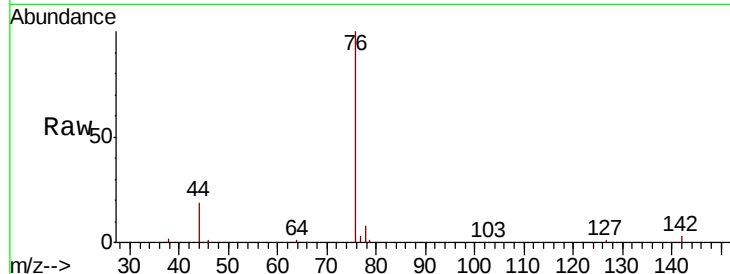




#17
Carbon Disulfide
Concen: 10.191 ug/l
RT: 3.36 min Scan# 196
Delta R.T. -0.01 min
Lab File: VD063192.D
Acq: 29 Jul 2019 11:42

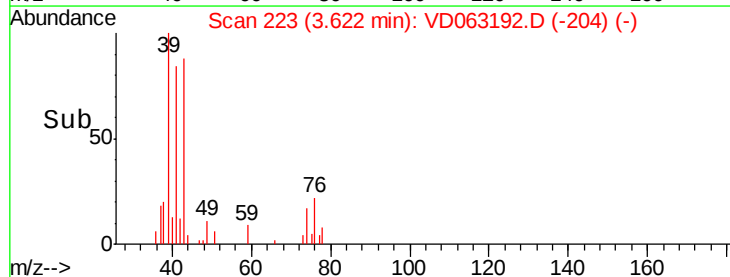
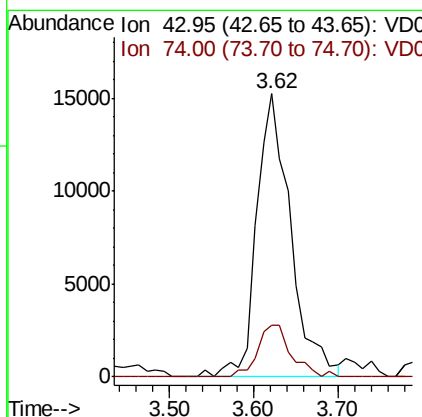
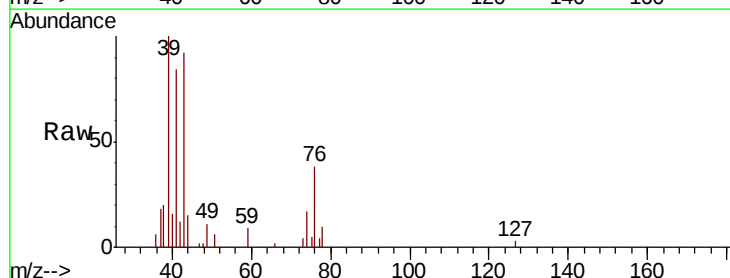
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

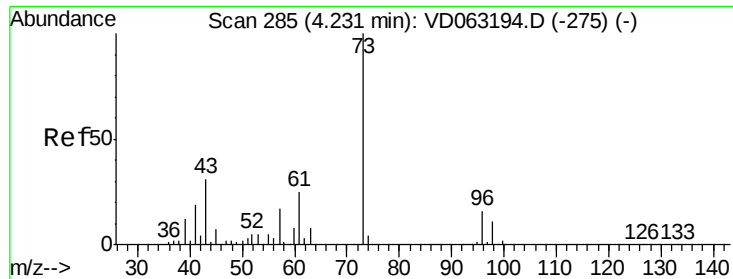
Tot Ion: 76 Resp: 235795
Ion Ratio Lower Upper
76 100
78 8.4 7.4 11.2



#18
Methyl Acetate
Concen: 11.668 ug/l
RT: 3.62 min Scan# 223
Delta R.T. -0.01 min
Lab File: VD063192.D
Acq: 29 Jul 2019 11:42

Tgt Ion: 43 Resp: 43183
Ion Ratio Lower Upper
43 100
74 18.2 13.8 20.8

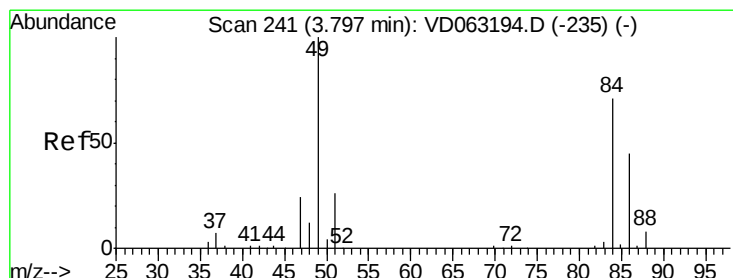
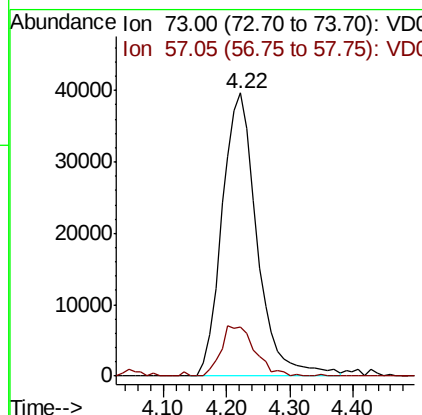
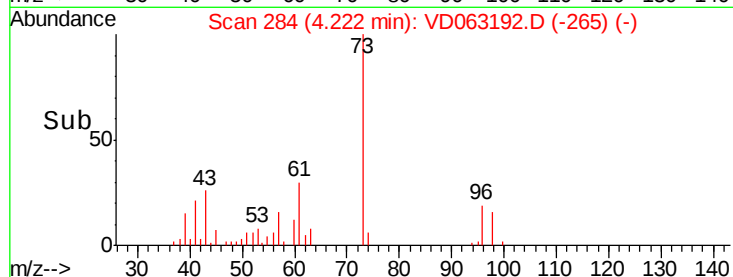
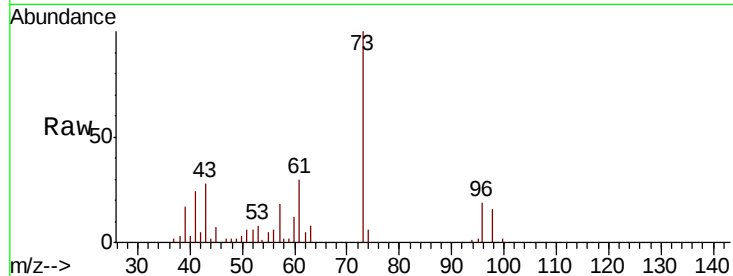




#19
Methyl tert-butyl Ether
Concen: 9.760 ug/l
RT: 4.22 min Scan# 284
Delta R.T. -0.01 min
Lab File: VD063192.D
Acq: 29 Jul 2019 11:42

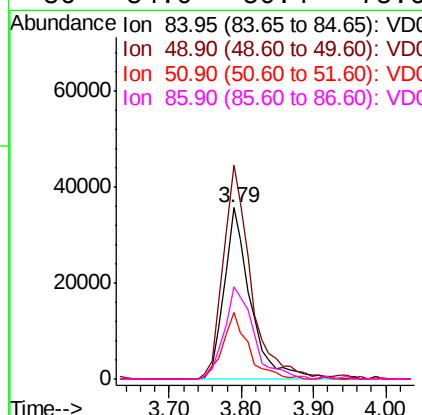
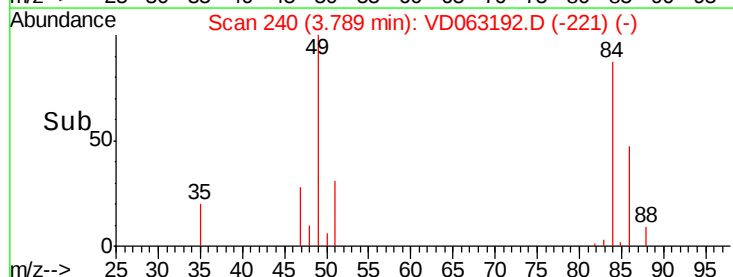
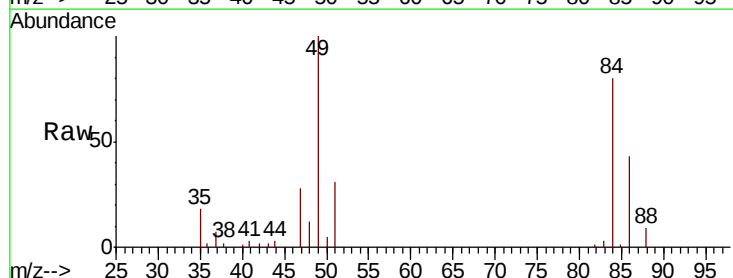
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

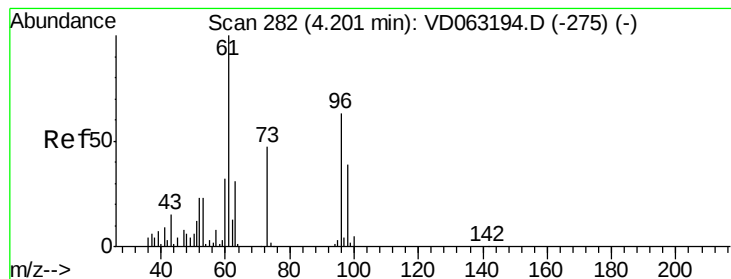
Tot Ion: 73 Resp: 152394
Ion Ratio Lower Upper
73 100
57 17.5 13.8 20.6



#20
Methylene Chloride
Concen: 11.558 ug/l
RT: 3.79 min Scan# 240
Delta R.T. -0.01 min
Lab File: VD063192.D
Acq: 29 Jul 2019 11:42

Tgt Ion: 84 Resp: 90011
Ion Ratio Lower Upper
84 100
49 124.6 112.5 168.7
51 38.7 29.6 44.4
86 54.0 50.4 75.6





#21

trans-1,2-Dichloroethene

Concen: 9.692 ug/l

RT: 4.19 min Scan# 281

Delta R.T. -0.01 min

Lab File: VD063192.D

Acq: 29 Jul 2019 11:42

Instrument :

MSVOA_D

ClientSampleID :

VSTDIC010

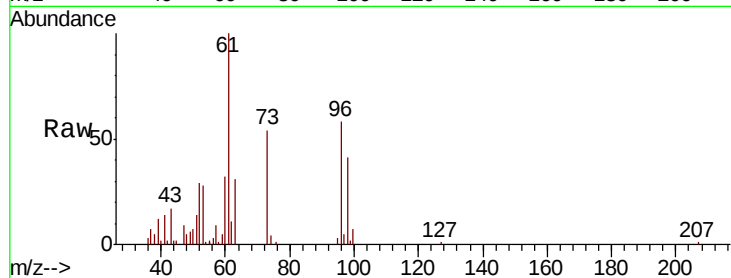
Tot Ion: 96 Resp: 75175

Ion Ratio Lower Upper

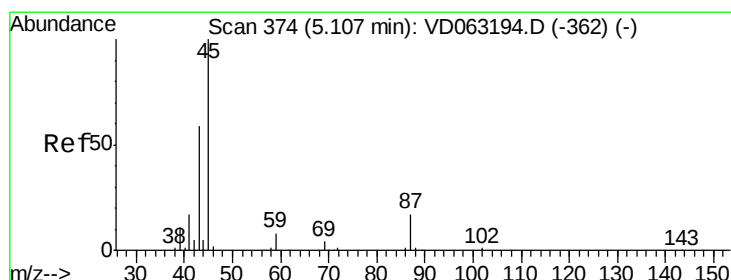
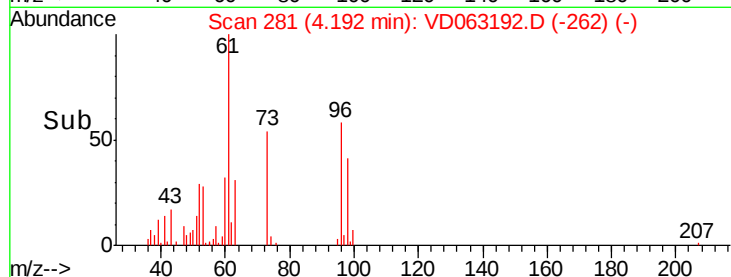
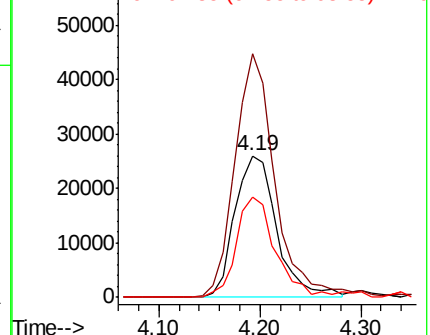
96 100

61 172.0 127.4 191.2

98 70.8 49.3 73.9



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 9.723 ug/l

RT: 5.10 min Scan# 373

Delta R.T. -0.01 min

Lab File: VD063192.D

Acq: 29 Jul 2019 11:42

Tgt Ion: 45 Resp: 214129

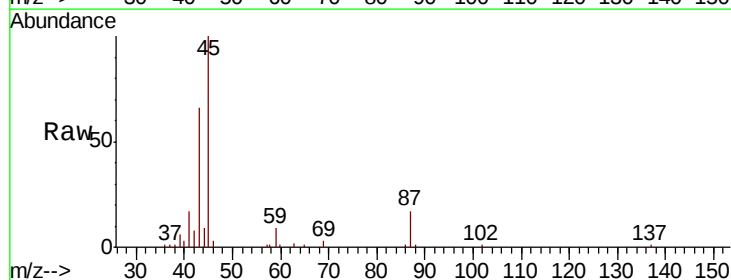
Ion Ratio Lower Upper

45 100

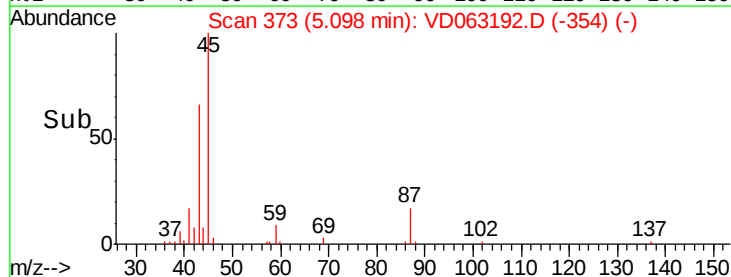
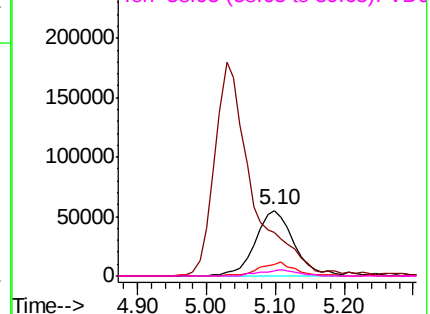
43 65.6 51.7 77.5

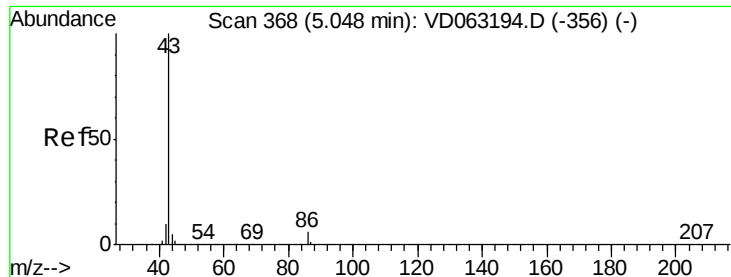
87 17.1 14.6 21.8

59 8.7 6.6 10.0



Abundance Ion 45.05 (44.75 to 45.75): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 87.00 (86.70 to 87.70): VDC
Ion 58.95 (58.65 to 59.65): VDC





#23

Vinyl Acetate

Concen: 50.414 ug/l

RT: 5.03 min Scan# 366

Delta R.T. -0.02 min

Lab File: VD063192.D

Acq: 29 Jul 2019 11:42

Instrument :

MSVOA_D

ClientSampleId :

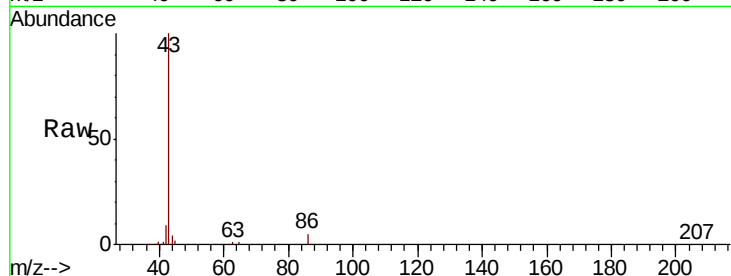
VSTDIC010

Tot Ion: 43 Resp: 681794

Ion Ratio Lower Upper

43 100

86 5.0 4.9 7.3



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC

5.03

200000

150000

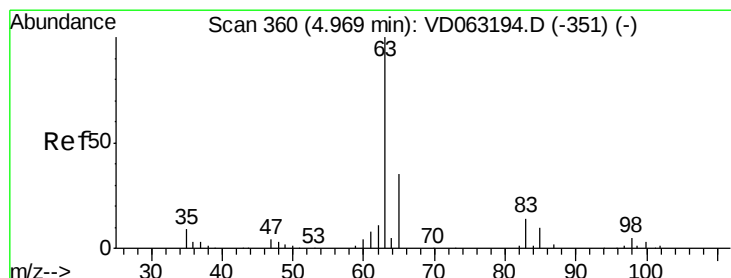
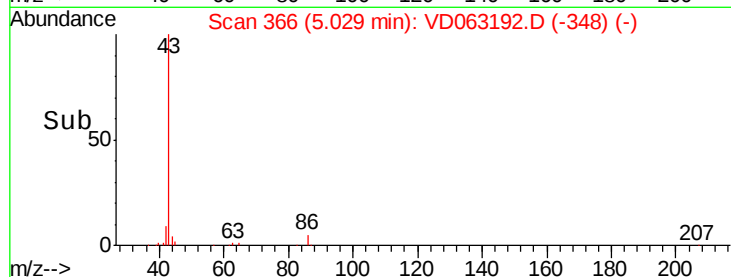
100000

50000

0

Time-->

4.90 5.00 5.10 5.20



#24

1,1-Dichloroethane

Concen: 10.607 ug/l

RT: 4.95 min Scan# 358

Delta R.T. -0.02 min

Lab File: VD063192.D

Acq: 29 Jul 2019 11:42

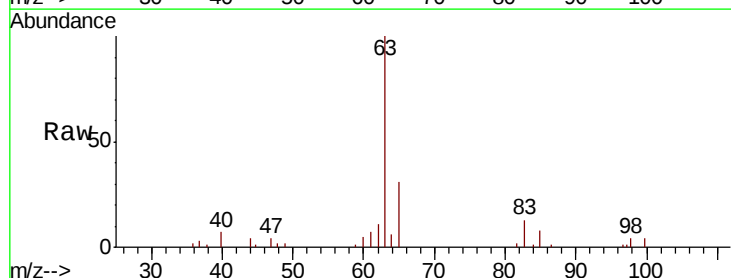
Tgt Ion: 63 Resp: 149065

Ion Ratio Lower Upper

63 100

98 4.3 2.8 8.4

100 3.6 1.3 3.9



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC

4.95

50000

40000

30000

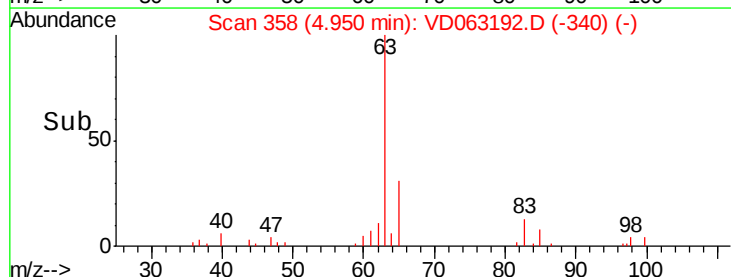
20000

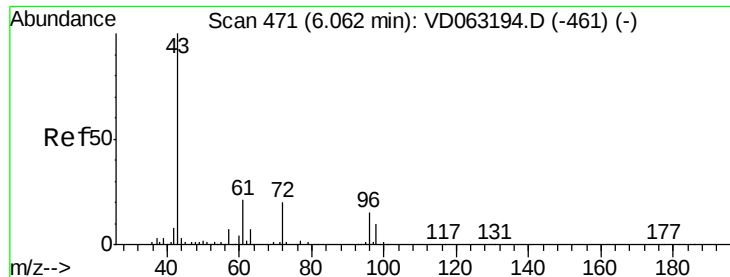
10000

0

Time-->

4.80 4.90 5.00 5.10





#25

2-Butanone

Concen: 49.777 ug/l

RT: 6.05 min Scan# 470

Delta R.T. -0.01 min

Lab File: VD063192.D

Acq: 29 Jul 2019 11:42

Instrument :

MSVOA_D

ClientSampleId :

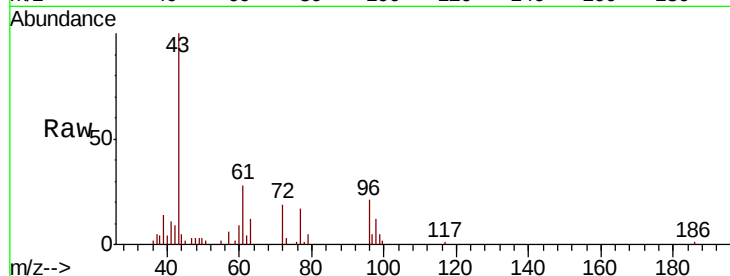
VSTDIC010

Tot Ion: 43 Resp: 96251

Ion Ratio Lower Upper

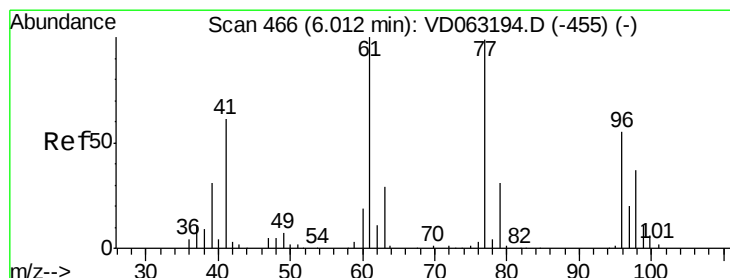
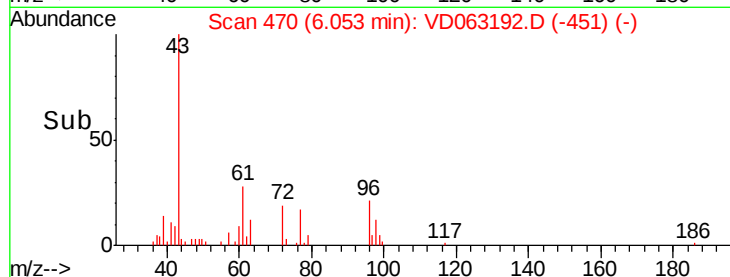
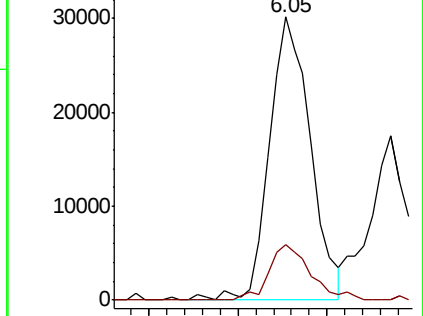
43 100

72 19.4 16.3 24.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 9.757 ug/l

RT: 6.00 min Scan# 465

Delta R.T. -0.01 min

Lab File: VD063192.D

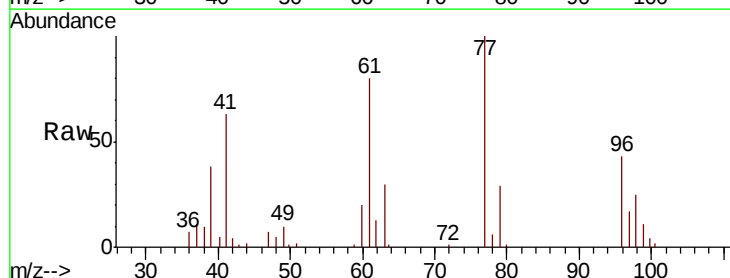
Acq: 29 Jul 2019 11:42

Tgt Ion: 77 Resp: 141308

Ion Ratio Lower Upper

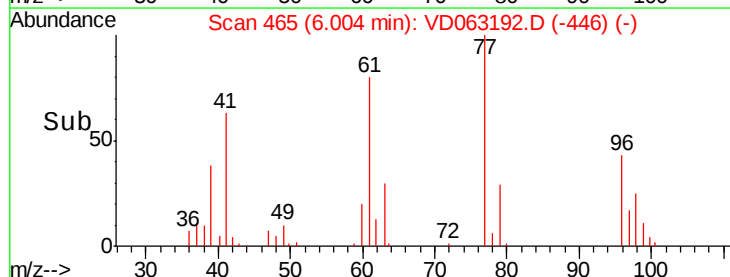
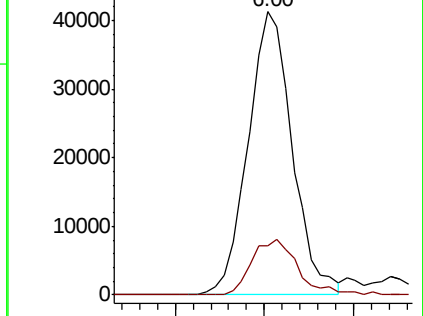
77 100

97 17.2 10.2 30.6



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



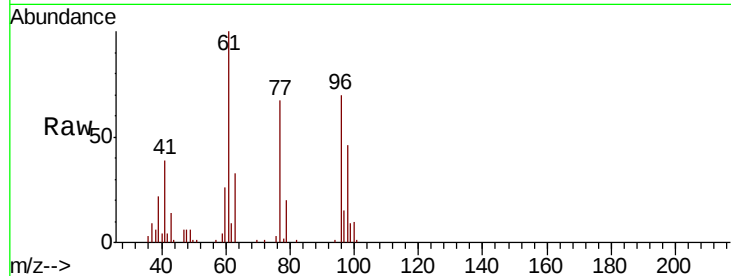


#27

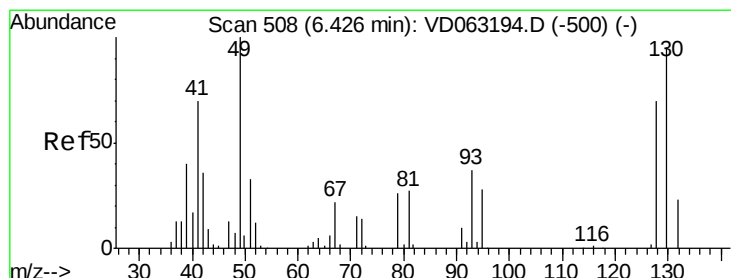
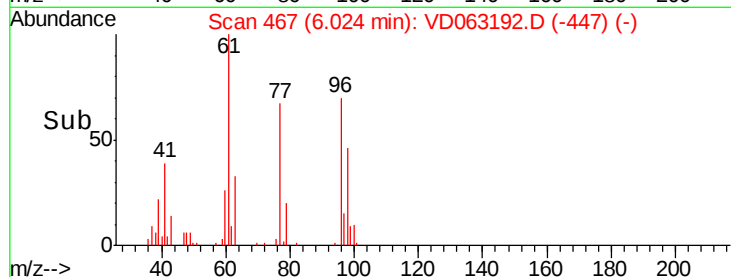
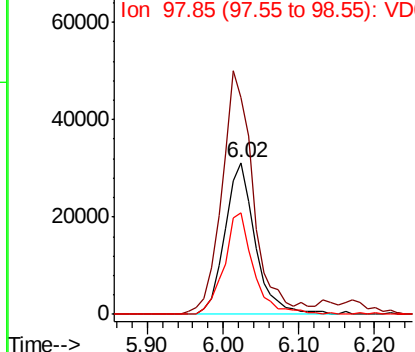
cis-1,2-Dichloroethene
 Concen: 10.334 ug/l
 RT: 6.02 min Scan# 467
 Delta R.T. 0.00 min
 Lab File: VD063192.D
 Acq: 29 Jul 2019 11:42

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC010

Tot Ion: 96 Resp: 85938
 Ion Ratio Lower Upper
 96 100
 61 143.3 0.0 337.2
 98 66.6 0.0 130.6



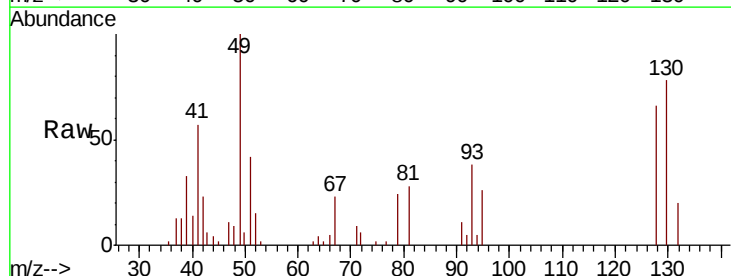
Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 97.85 (97.55 to 98.55): VDC



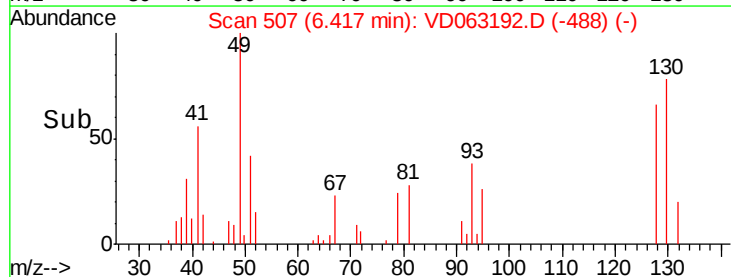
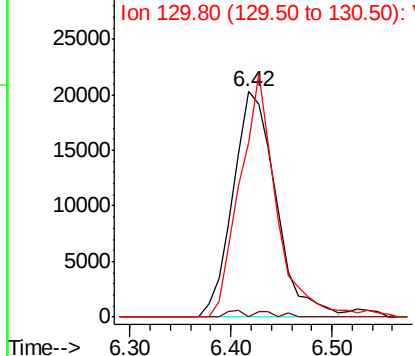
#28

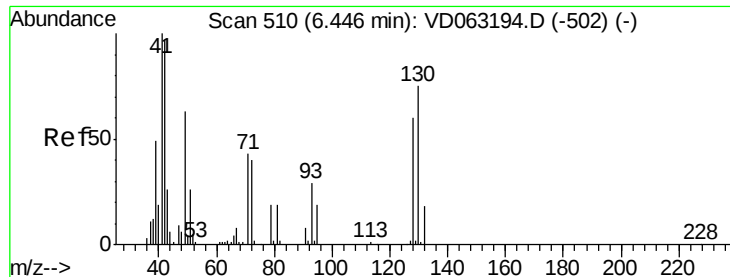
Bromochloromethane
 Concen: 10.776 ug/l
 RT: 6.42 min Scan# 507
 Delta R.T. -0.01 min
 Lab File: VD063192.D
 Acq: 29 Jul 2019 11:42

Tgt Ion: 49 Resp: 60444
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 0.0
 130 77.6 75.7 113.5



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: 54.592 ug/l

RT: 6.45 min Scan# 510

Delta R.T. 0.00 min

Lab File: VD063192.D

Acq: 29 Jul 2019 11:42

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC010

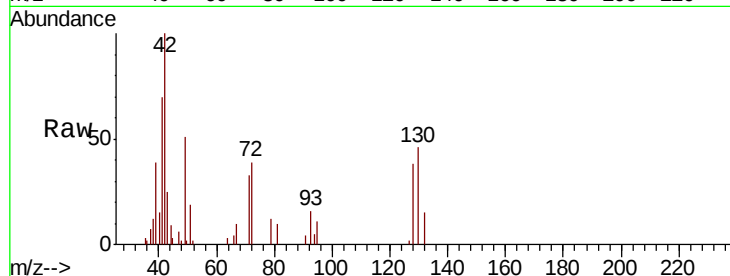
Tot Ion: 42 Resp: 49978

Ion Ratio Lower Upper

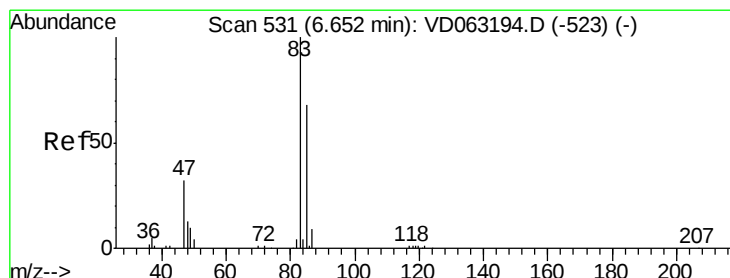
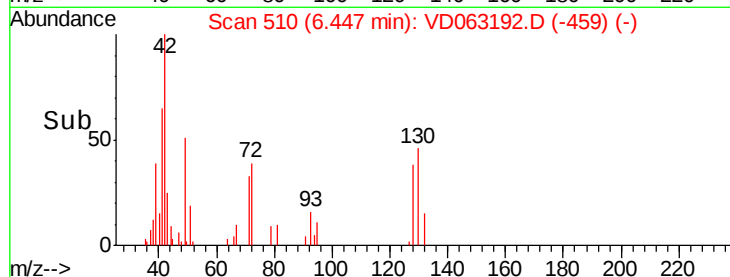
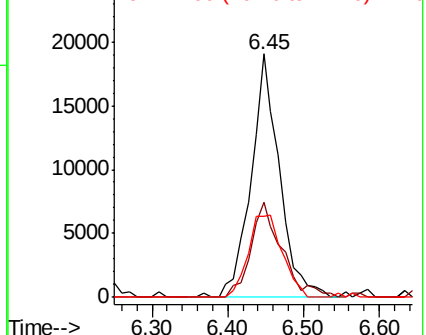
42 100

72 42.6 33.4 50.2

71 40.6 35.7 53.5



Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC



#30

Chloroform

Concen: 10.494 ug/l

RT: 6.64 min Scan# 530

Delta R.T. -0.01 min

Lab File: VD063192.D

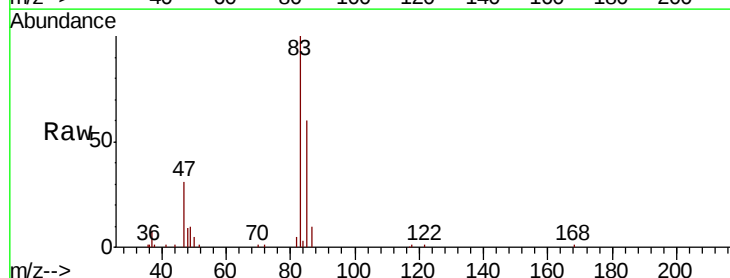
Acq: 29 Jul 2019 11:42

Tgt Ion: 83 Resp: 183013

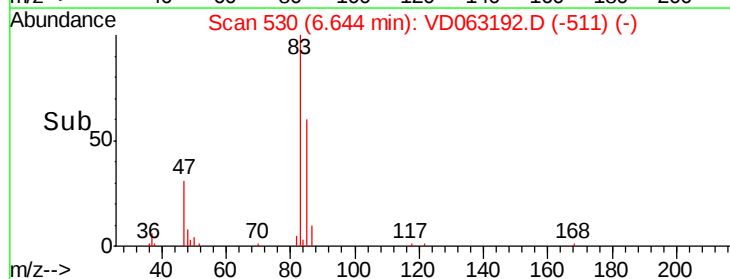
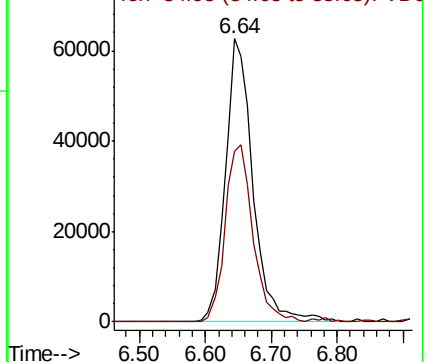
Ion Ratio Lower Upper

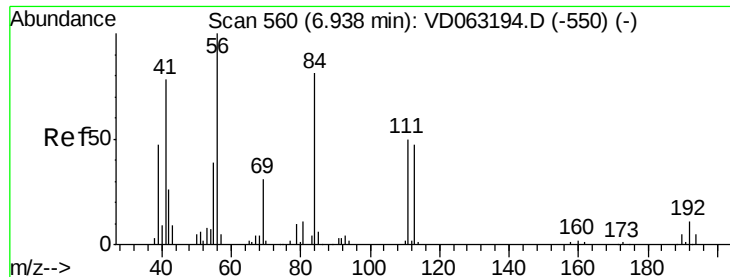
83 100

85 60.3 54.2 81.4



Abundance Ion 82.95 (82.65 to 83.65): VDC
Ion 84.95 (84.65 to 85.65): VDC

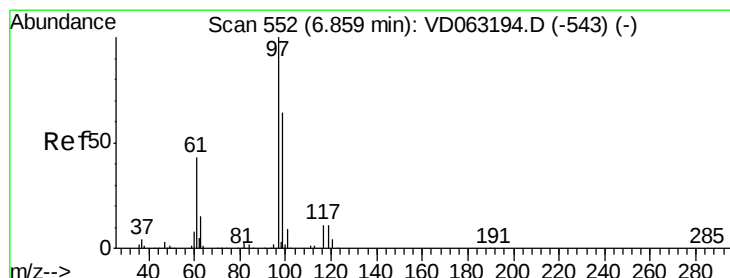
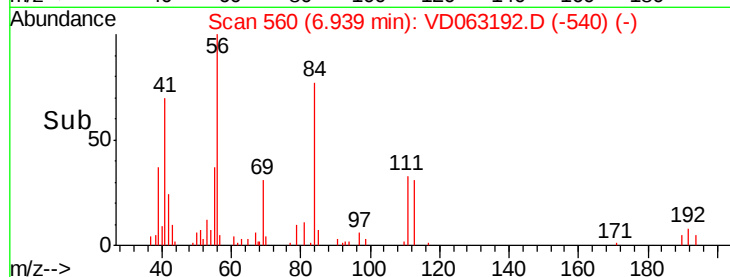
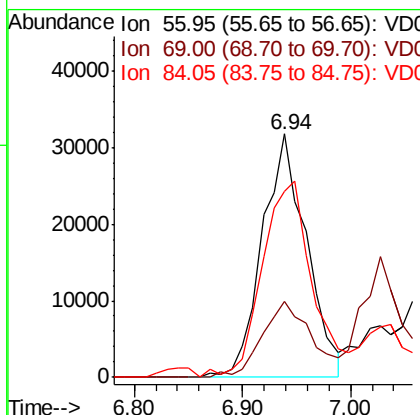
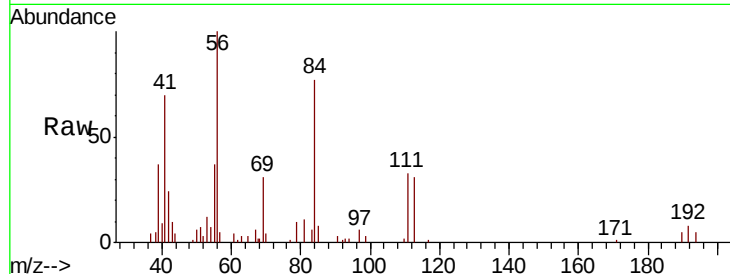




#31
Cyclohexane
Concen: 10.313 ug/l
RT: 6.94 min Scan# 560
Delta R.T. 0.00 min
Lab File: VD063192.D
Acq: 29 Jul 2019 11:42

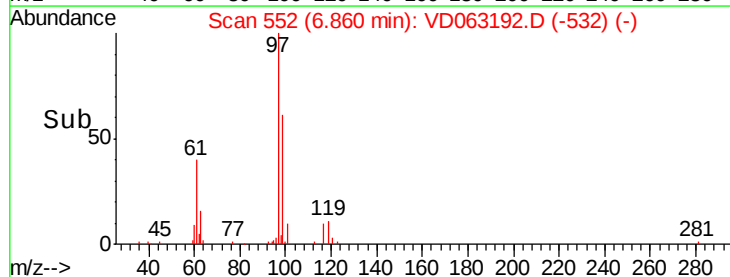
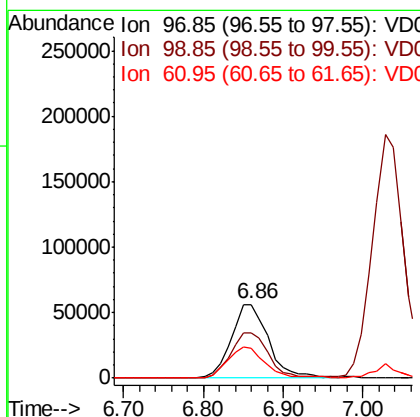
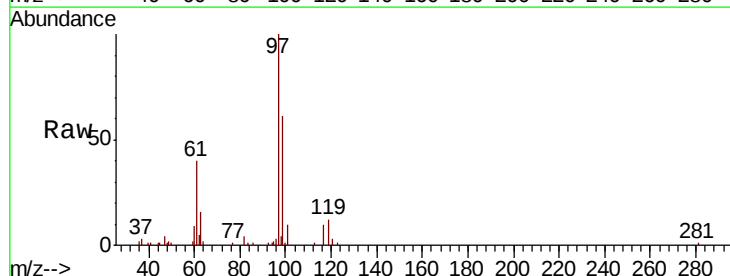
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

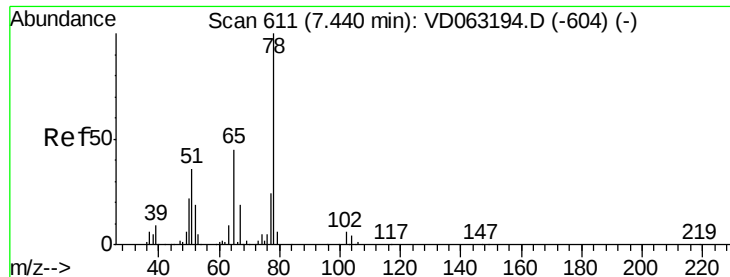
Tot Ion: 56 Resp: 90841
Ion Ratio Lower Upper
56 100
69 31.1 24.5 36.7
84 76.5 64.9 97.3



#32
1,1,1-Trichloroethane
Concen: 10.827 ug/l
RT: 6.86 min Scan# 552
Delta R.T. 0.00 min
Lab File: VD063192.D
Acq: 29 Jul 2019 11:42

Tgt Ion: 97 Resp: 182633
Ion Ratio Lower Upper
97 100
99 61.4 51.2 76.8
61 39.8 34.2 51.2





#33

1,2-Dichloroethane-d4

Concen: 9.500 ug/l

RT: 7.44 min Scan# 611

Delta R.T. 0.00 min

Lab File: VD063192.D

Acq: 29 Jul 2019 11:42

Instrument :

MSVOA_D

ClientSampleId :

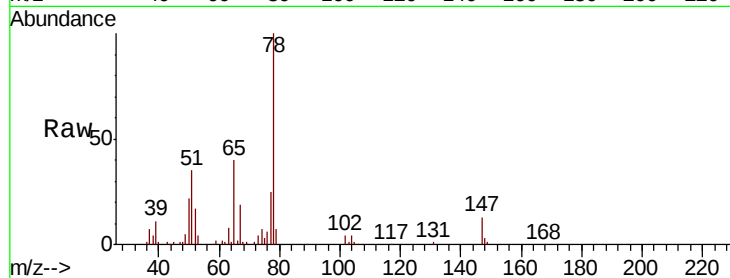
VSTDIC010

Tot Ion: 65 Resp: 93940

Ion Ratio Lower Upper

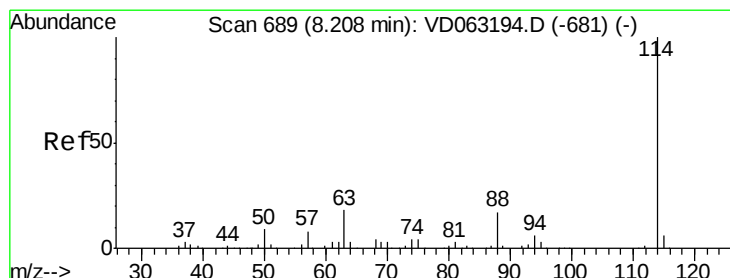
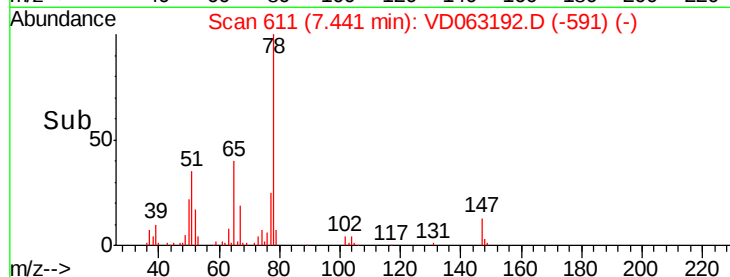
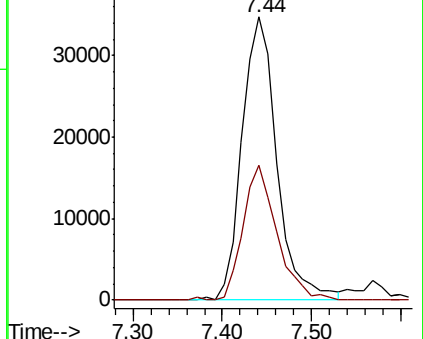
65 100

67 47.7 0.0 85.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 689

Delta R.T. 0.00 min

Lab File: VD063192.D

Acq: 29 Jul 2019 11:42

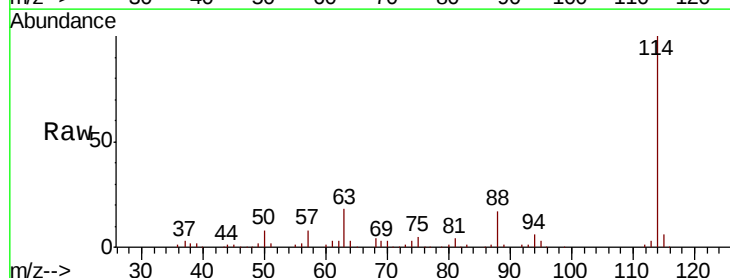
Tgt Ion: 114 Resp: 1187175

Ion Ratio Lower Upper

114 100

63 17.5 0.0 35.2

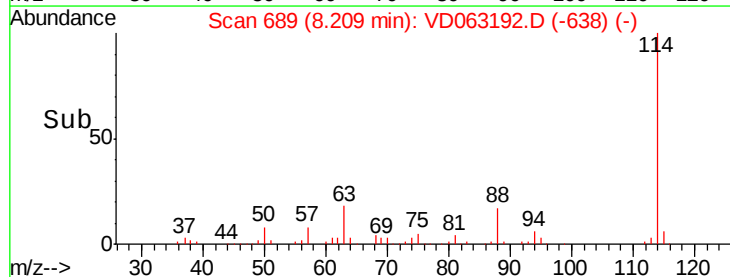
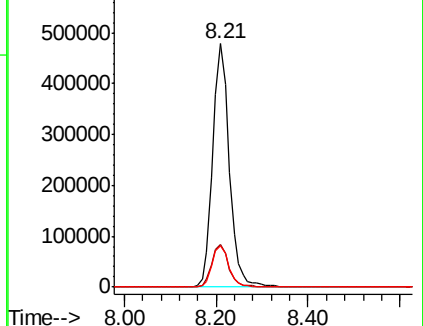
88 16.8 0.0 34.6

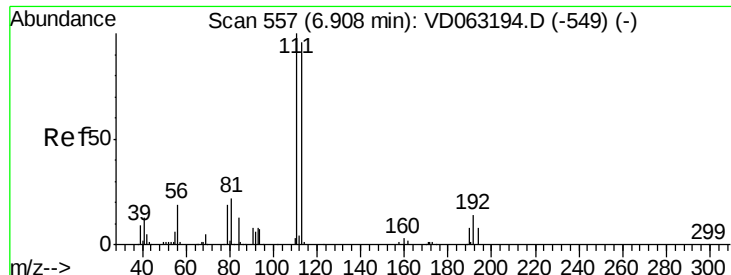


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 10.117 ug/l

RT: 6.91 min Scan# 557

Delta R.T. 0.00 min

Lab File: VD063192.D

Acq: 29 Jul 2019 11:42

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC010

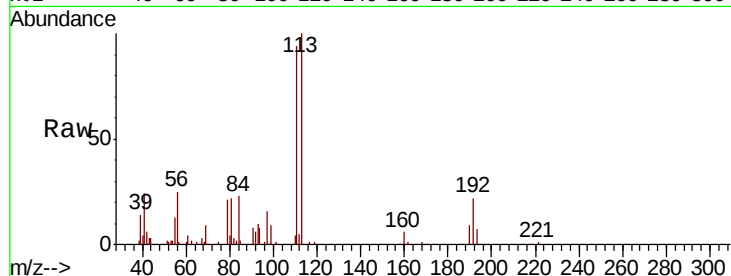
Tot Ion:113 Resp: 102545

Ion Ratio Lower Upper

113 100

111 93.6 83.2 124.8

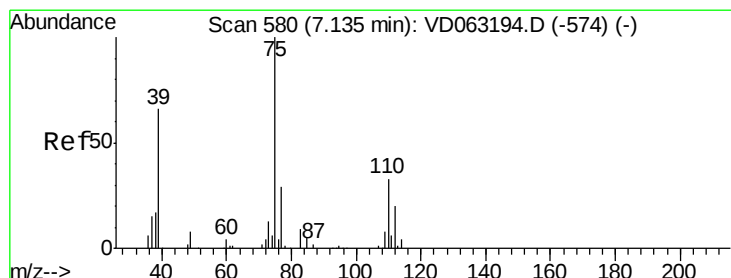
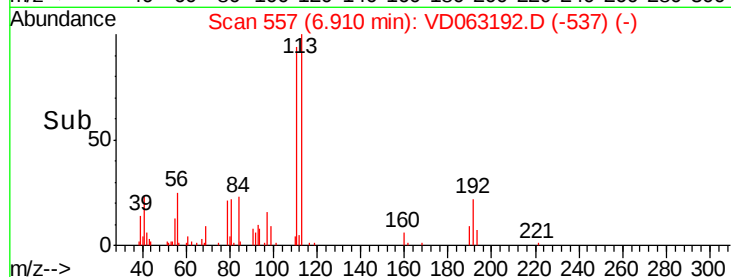
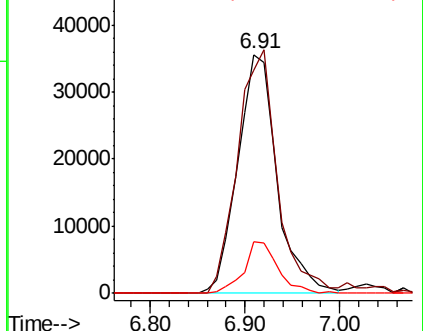
192 21.8 11.8 17.8#



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 10.782 ug/l

RT: 7.13 min Scan# 579

Delta R.T. -0.01 min

Lab File: VD063192.D

Acq: 29 Jul 2019 11:42

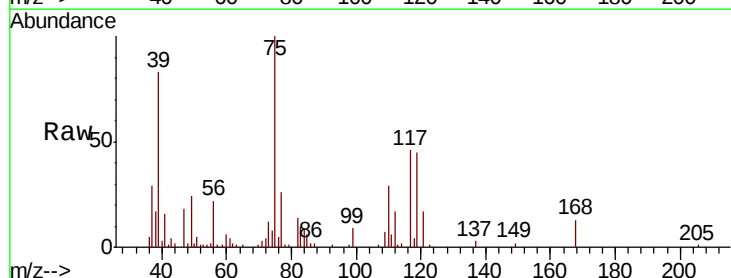
Tgt Ion: 75 Resp: 116815

Ion Ratio Lower Upper

75 100

110 28.9 16.1 48.2

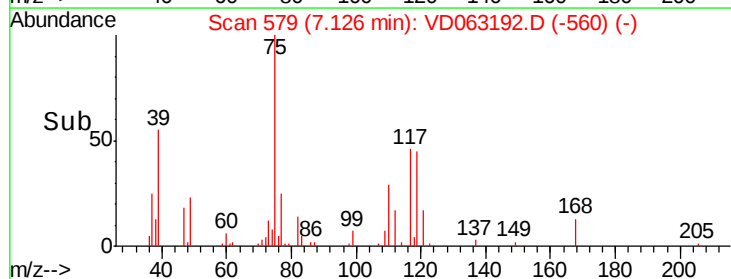
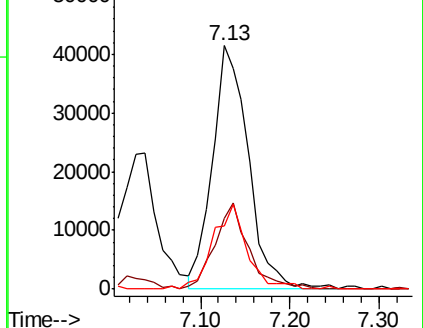
77 26.1 22.7 34.1

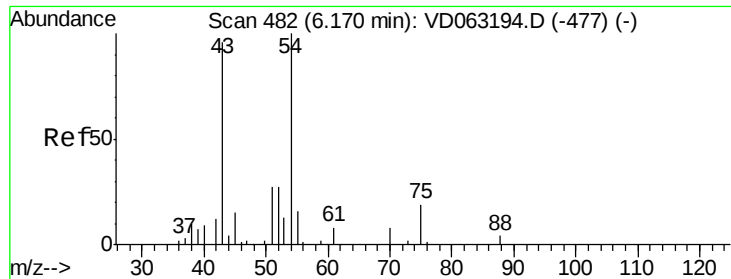


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

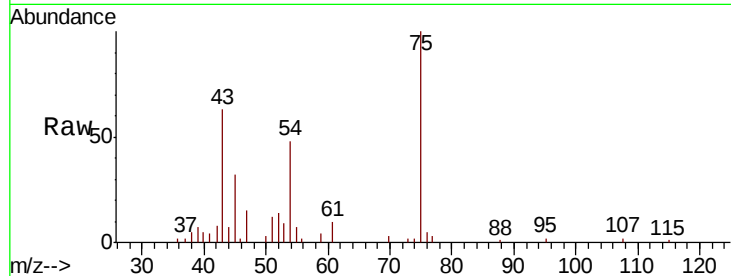




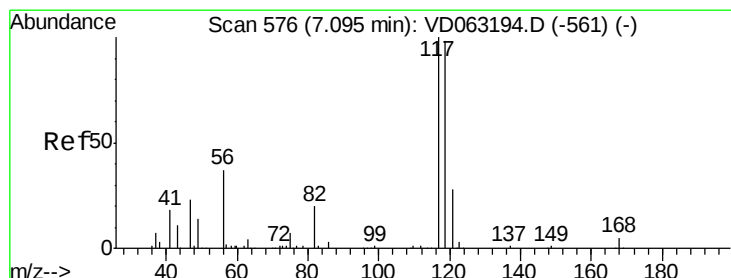
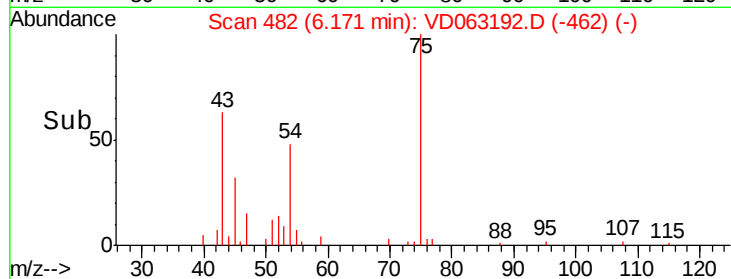
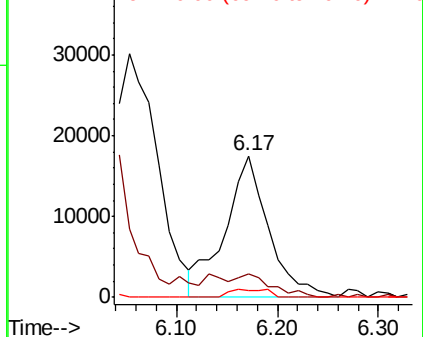
#37
Ethyl Acetate
Concen: 10.917 ug/l
RT: 6.17 min Scan# 482
Delta R.T. 0.00 min
Lab File: VD063192.D
Acq: 29 Jul 2019 11:42

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

Tot Ion: 43 Resp: 53031
Ion Ratio Lower Upper
43 100
61 16.4 11.3 16.9
70 4.9 5.1 7.7#

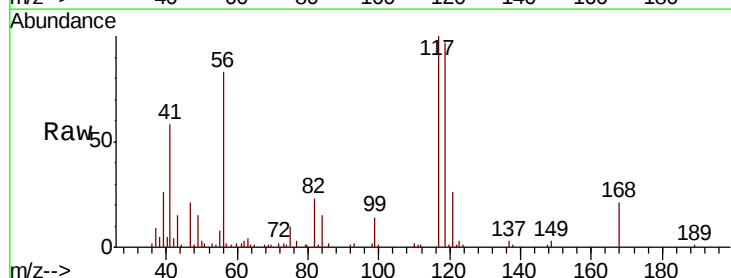


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

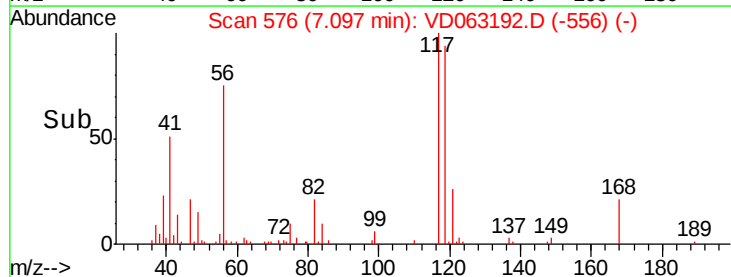
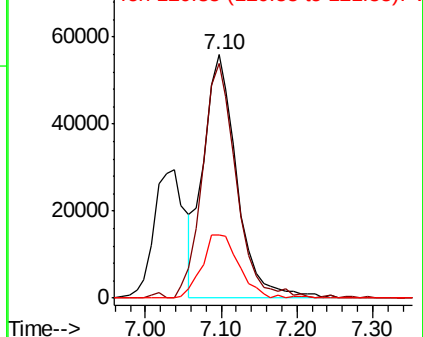


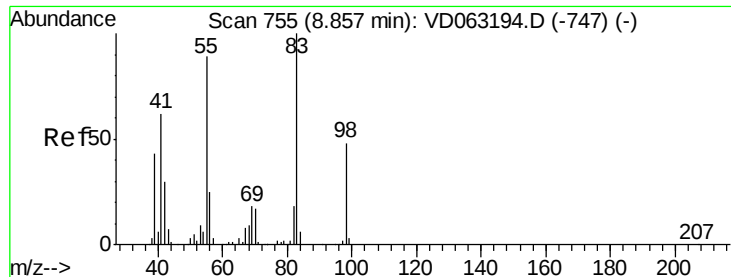
#38
Carbon Tetrachloride
Concen: 10.546 ug/l
RT: 7.10 min Scan# 576
Delta R.T. 0.00 min
Lab File: VD063192.D
Acq: 29 Jul 2019 11:42

Tgt Ion: 117 Resp: 172010
Ion Ratio Lower Upper
117 100
119 96.6 78.2 117.2
121 26.1 22.1 33.1



Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

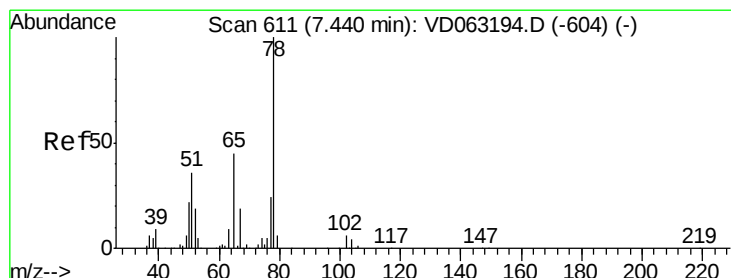
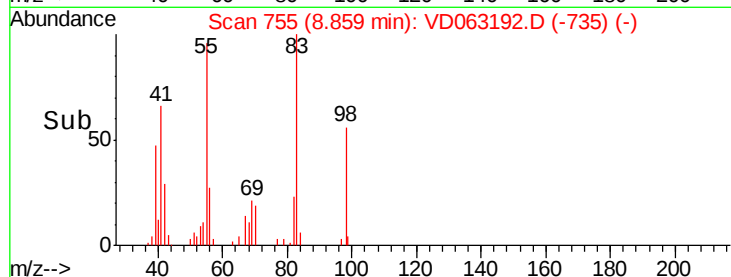
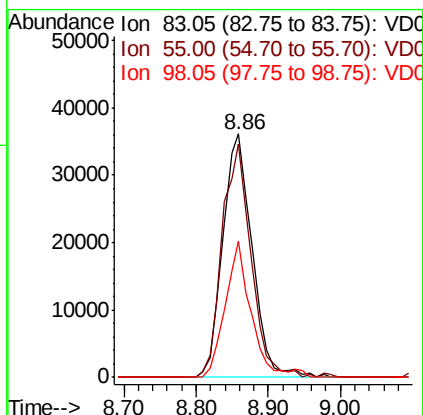
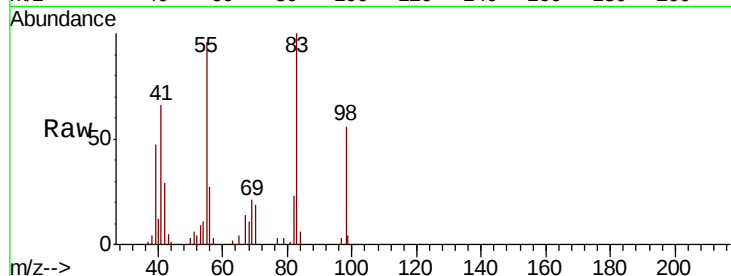




#39
Methvlcvclohexane
Concen: 11.275 ug/l
RT: 8.86 min Scan# 755
Delta R.T. 0.00 min
Lab File: VD063192.D
Acq: 29 Jul 2019 11:42

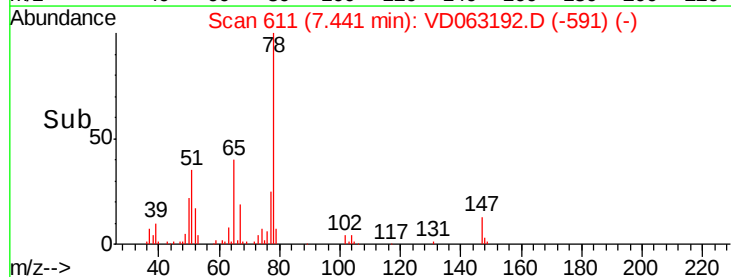
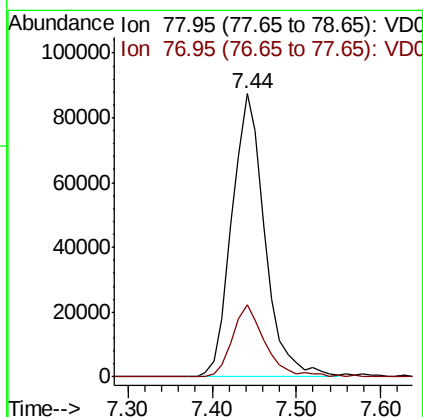
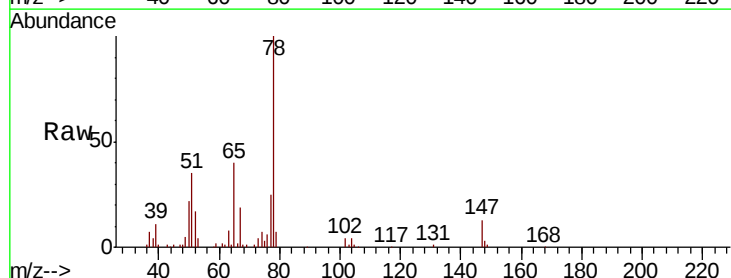
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

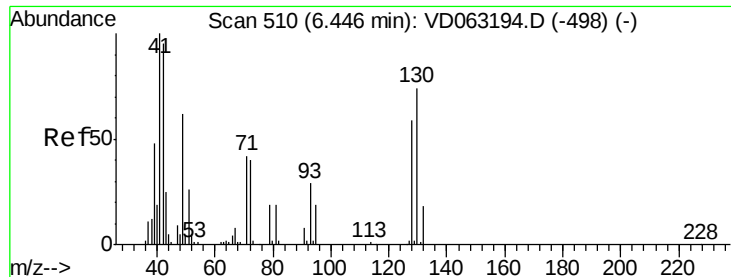
Tot Ion: 83 Resp: 101781
Ion Ratio Lower Upper
83 100
55 96.1 71.1 106.7
98 55.9 38.5 57.7



#40
Benzene
Concen: 10.492 ug/l
RT: 7.44 min Scan# 611
Delta R.T. 0.00 min
Lab File: VD063192.D
Acq: 29 Jul 2019 11:42

Tgt Ion: 78 Resp: 238250
Ion Ratio Lower Upper
78 100
77 25.3 19.4 29.2

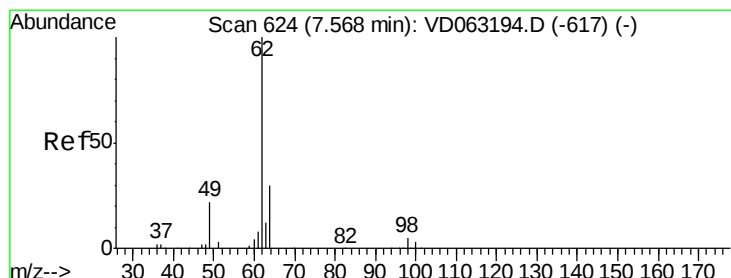
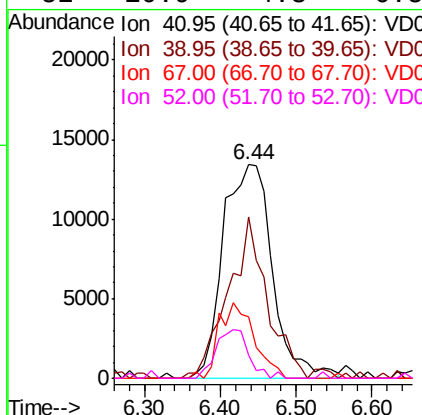
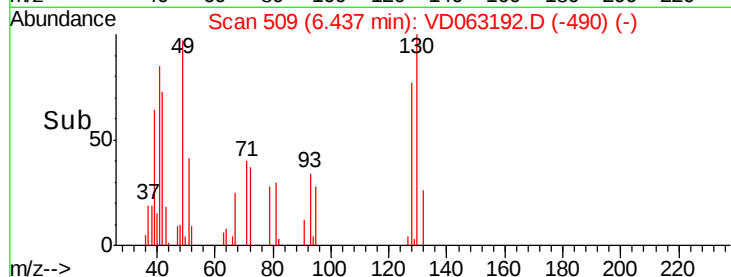
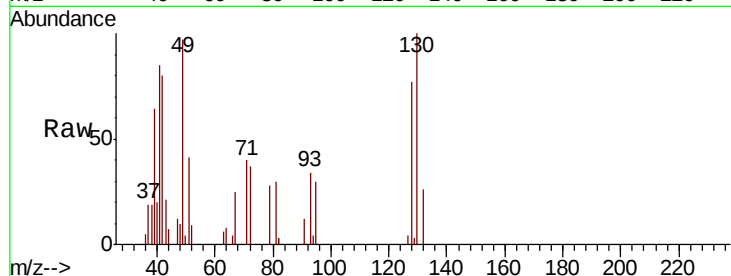




#41
Methacrylonitrile
Concen: 10.441 ug/l
RT: 6.44 min Scan# 509
Delta R.T. -0.01 min
Lab File: VD063192.D
Acq: 29 Jul 2019 11:42

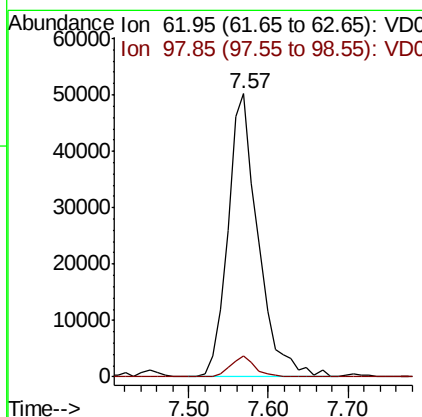
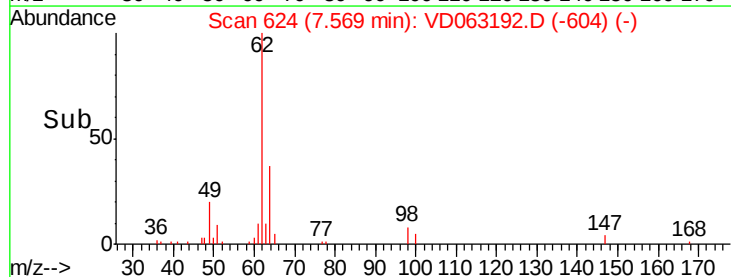
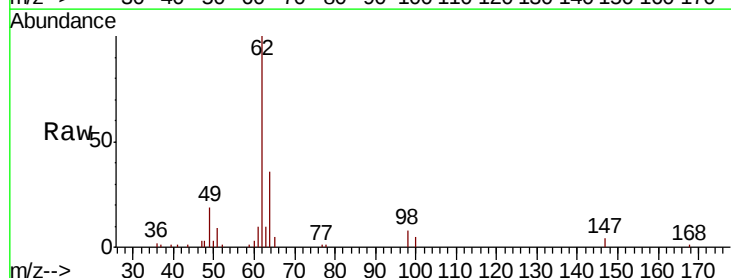
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

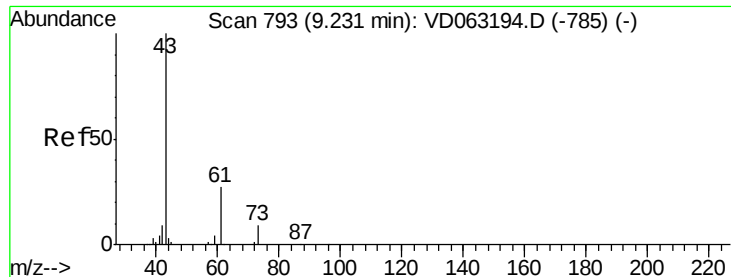
Tot Ion: 41 Resp: 60792
Ion Ratio Lower Upper
41 100
39 75.7 38.4 57.6#
67 29.1 6.7 10.1#
52 10.9 4.3 6.5#



#42
1,2-Dichloroethane
Concen: 11.043 ug/l
RT: 7.57 min Scan# 624
Delta R.T. 0.00 min
Lab File: VD063192.D
Acq: 29 Jul 2019 11:42

Tgt Ion: 62 Resp: 132892
Ion Ratio Lower Upper
62 100
98 7.5 0.0 9.8



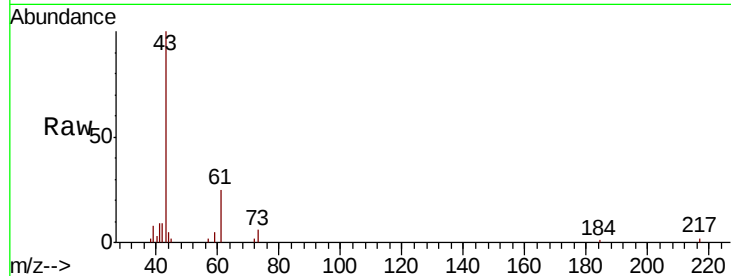


#43

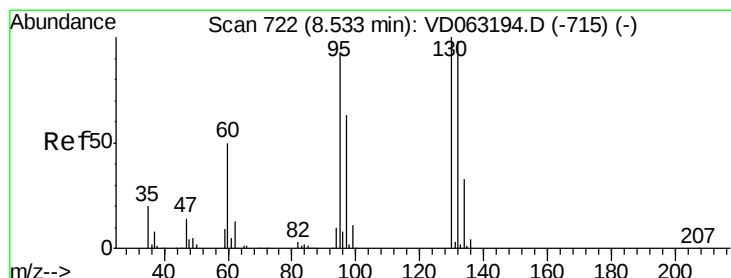
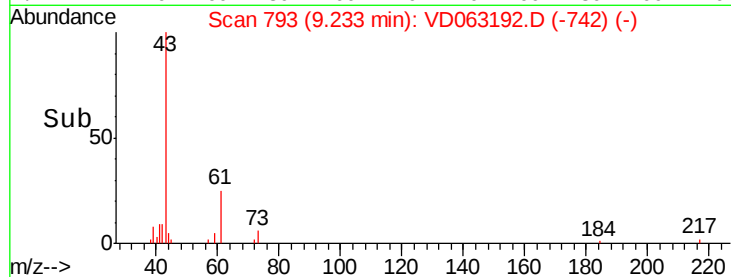
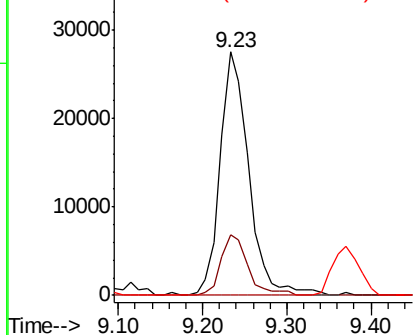
Isopropyl Acetate
 Concen: 10.492 ug/l
 RT: 9.23 min Scan# 793
 Delta R.T. 0.00 min
 Lab File: VD063192.D
 Acq: 29 Jul 2019 11:42

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC010

Tot Ion: 43 Resp: 65237
 Ion Ratio Lower Upper
 43 100
 61 24.8 21.4 32.0
 87 0.0 0.2 0.4#



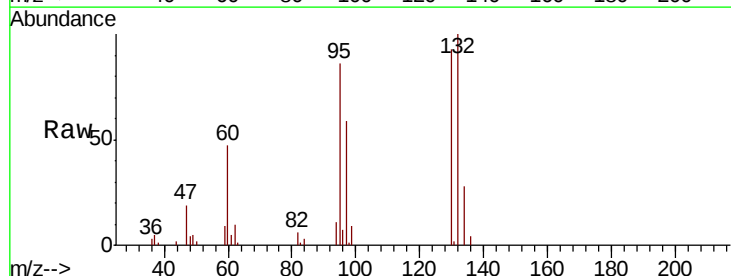
Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 87.00 (86.70 to 87.70): VDC



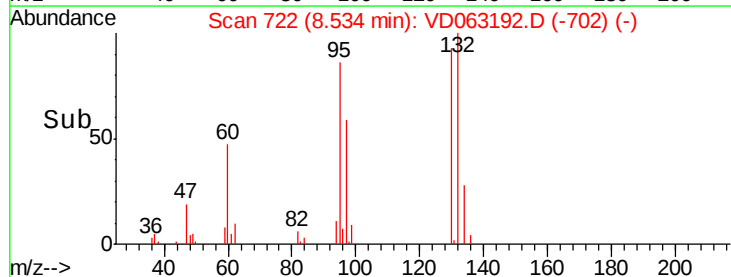
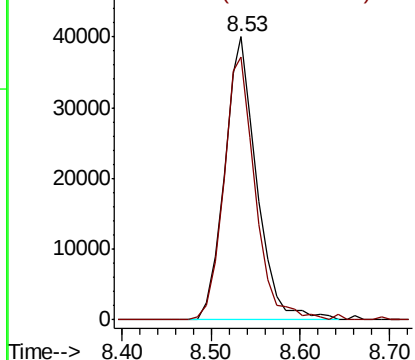
#44

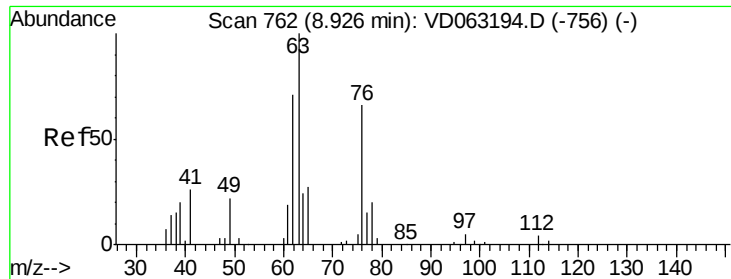
Trichloroethene
 Concen: 10.922 ug/l
 RT: 8.53 min Scan# 722
 Delta R.T. 0.00 min
 Lab File: VD063192.D
 Acq: 29 Jul 2019 11:42

Tgt Ion: 130 Resp: 100492
 Ion Ratio Lower Upper
 130 100
 95 92.8 0.0 185.4



Abundance Ion 129.80 (129.50 to 130.50): VDC
 Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 11.487 ug/l

RT: 8.94 min Scan# 763

Delta R.T. 0.01 min

Lab File: VD063192.D

Acq: 29 Jul 2019 11:42

Instrument :

MSVOA_D

ClientSampleId :

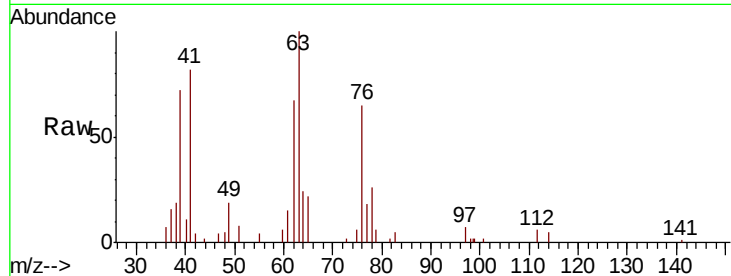
VSTDIC010

Tot Ion: 63 Resp: 66300

Ion Ratio Lower Upper

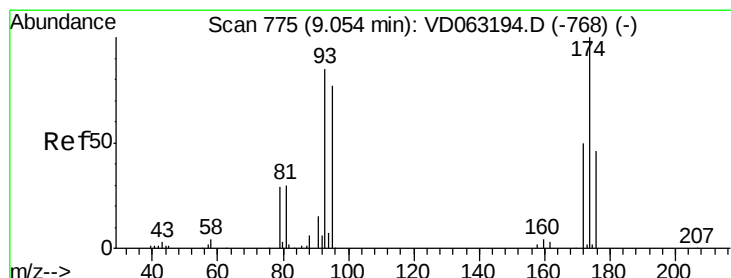
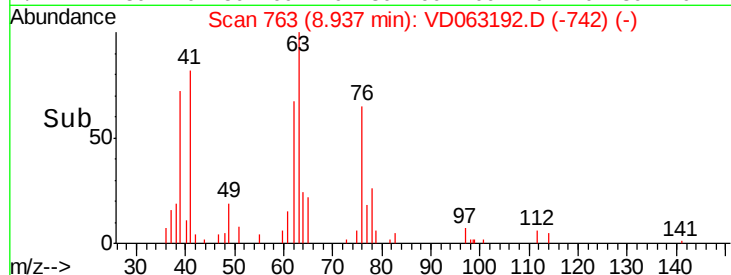
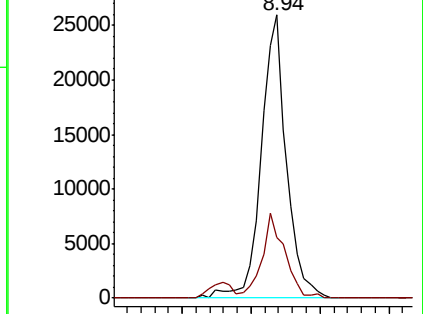
63 100

65 21.5 23.6 35.4#



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 10.615 ug/l

RT: 9.06 min Scan# 775

Delta R.T. 0.00 min

Lab File: VD063192.D

Acq: 29 Jul 2019 11:42

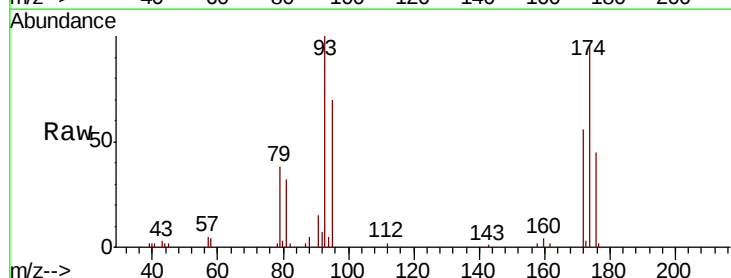
Tgt Ion: 93 Resp: 50940

Ion Ratio Lower Upper

93 100

95 69.7 72.8 109.2#

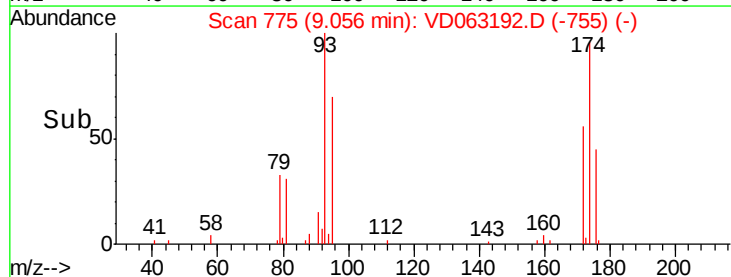
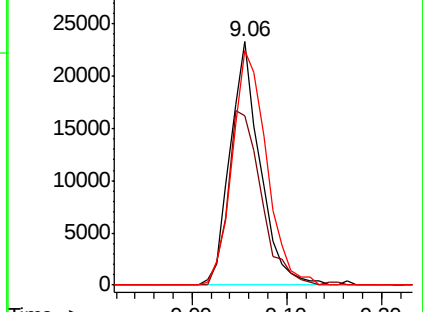
174 96.5 94.4 141.6

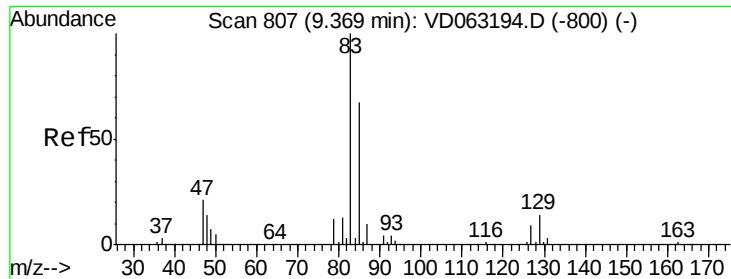


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V





#47

Bromodichloromethane

Concen: 10.492 ug/l

RT: 9.37 min Scan# 807

Delta R.T. 0.00 min

Lab File: VD063192.D

Acq: 29 Jul 2019 11:42

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC010

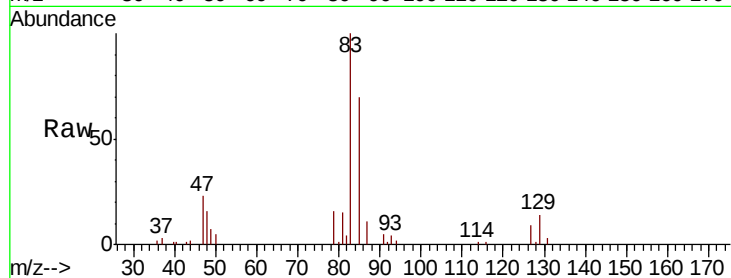
Tot Ion: 83 Resp: 128346

Ion Ratio Lower Upper

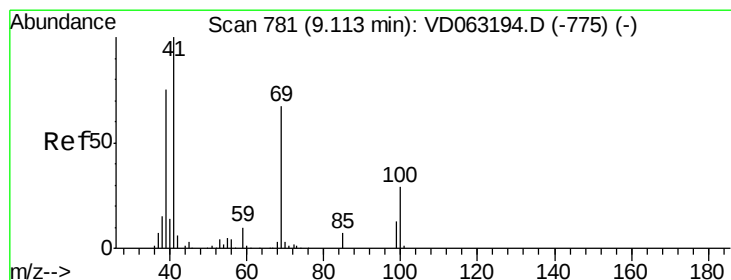
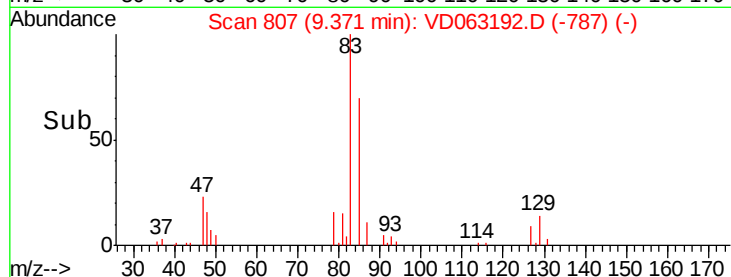
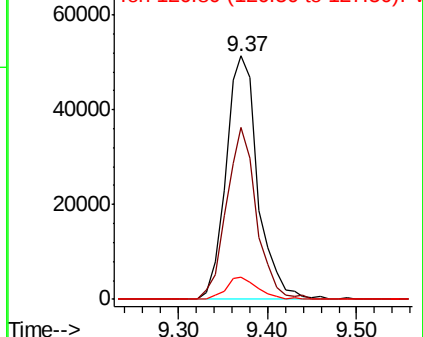
83 100

85 70.5 53.6 80.4

127 9.1 7.2 10.8



Abundance Ion 82.85 (82.55 to 83.55): VDC
Ion 84.95 (84.65 to 85.65): VDC
Ion 126.80 (126.50 to 127.50): VDC



#48

Methyl methacrylate

Concen: 9.842 ug/l

RT: 9.12 min Scan# 782

Delta R.T. 0.01 min

Lab File: VD063192.D

Acq: 29 Jul 2019 11:42

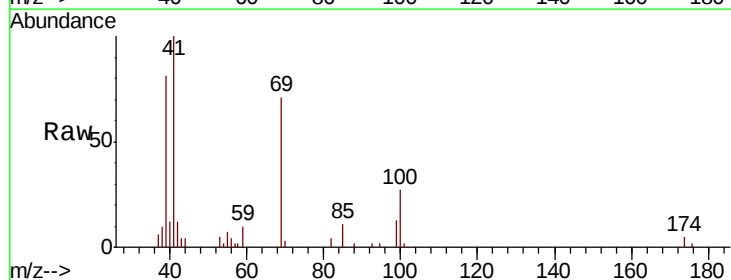
Tgt Ion: 41 Resp: 39688

Ion Ratio Lower Upper

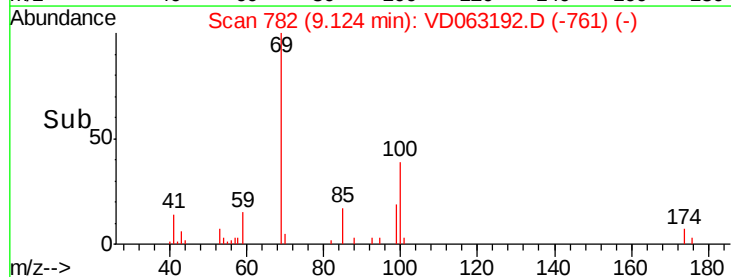
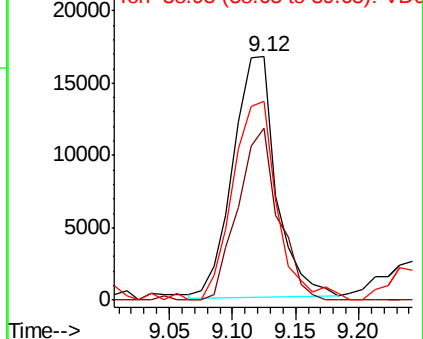
41 100

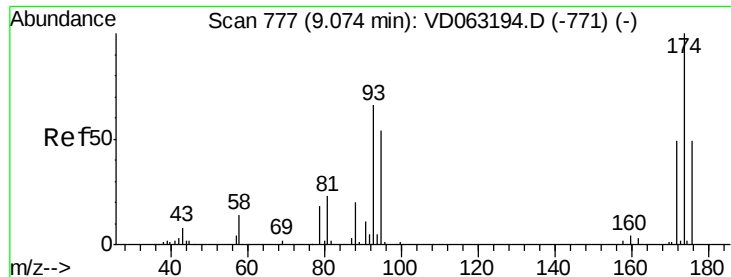
69 70.6 53.4 80.0

39 81.5 60.3 90.5



Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 38.95 (38.65 to 39.65): VDC

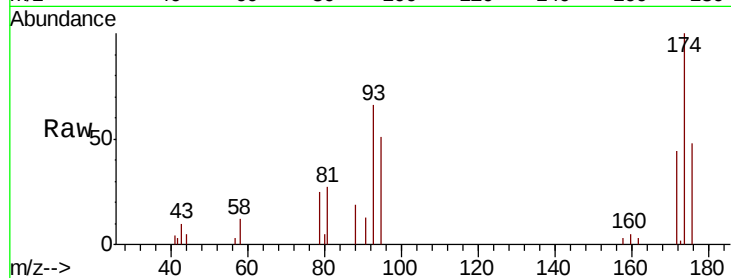




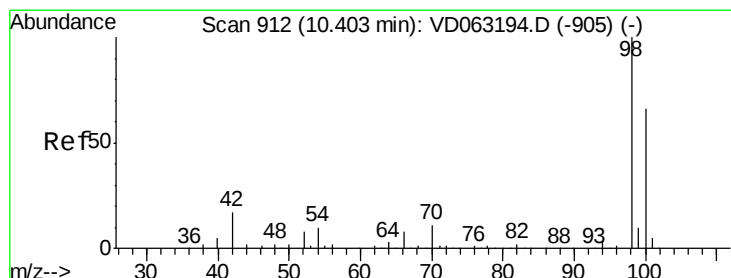
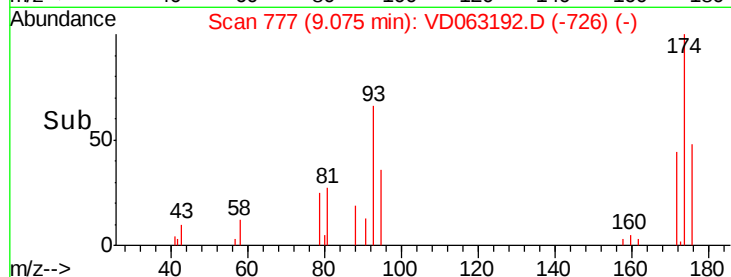
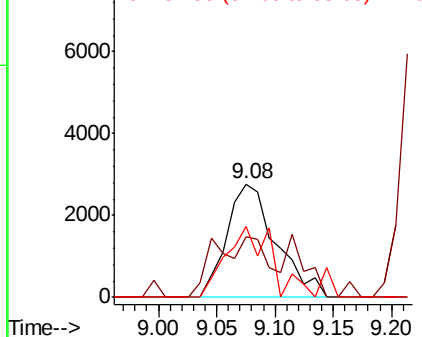
#49
1,4-Dioxane
Concen: 241.766 ug/l
RT: 9.08 min Scan# 777
Delta R.T. 0.00 min
Lab File: VD063192.D
Acq: 29 Jul 2019 11:42

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

Tot Ion: 88 Resp: 8066
Ion Ratio Lower Upper
88 100
43 53.8 30.7 46.1#
58 63.1 56.5 84.7

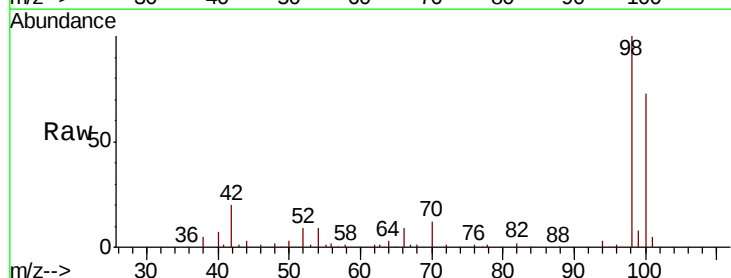


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

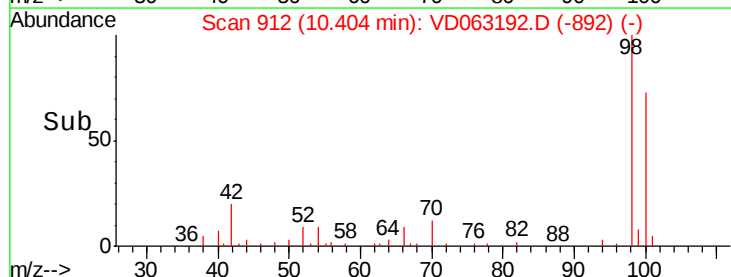
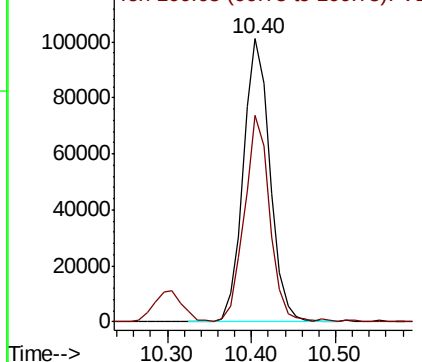


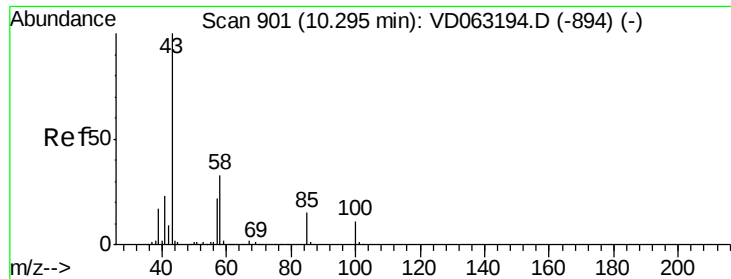
#50
Toluene-d8
Concen: 9.907 ug/l
RT: 10.40 min Scan# 912
Delta R.T. 0.00 min
Lab File: VD063192.D
Acq: 29 Jul 2019 11:42

Tgt Ion: 98 Resp: 224739
Ion Ratio Lower Upper
98 100
100 72.9 53.2 79.8



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

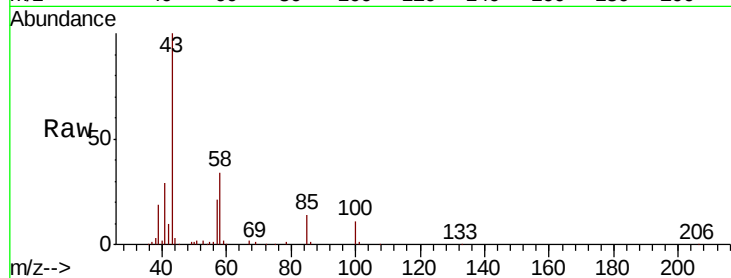




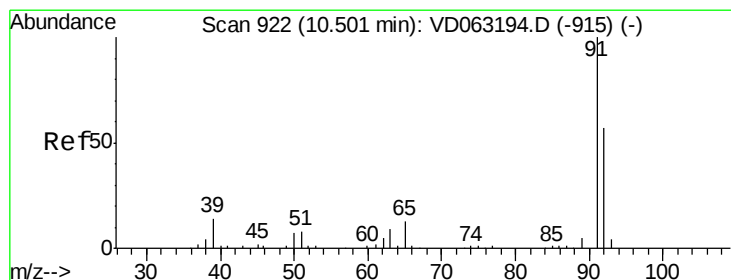
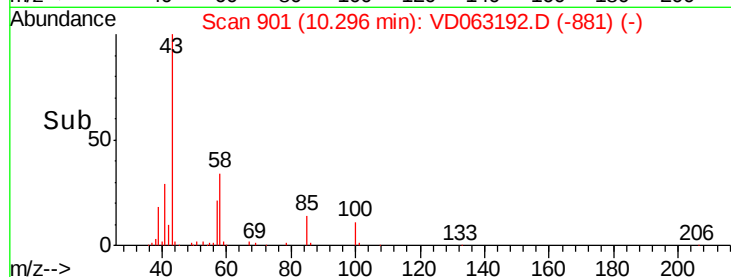
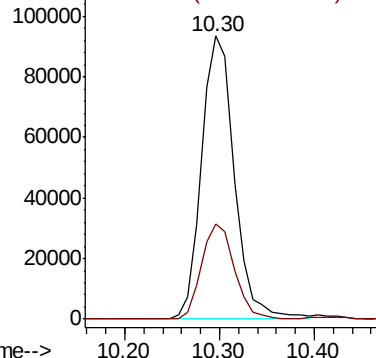
#51
4-Methyl-2-Pentanone
Concen: 53.093 ug/l
RT: 10.30 min Scan# 901
Delta R.T. 0.00 min
Lab File: VD063192.D
Acq: 29 Jul 2019 11:42

Instrument :
MSVOA_D
ClientSampleID :
VSTDIC010

Tot Ion: 43 Resp: 224509
Ion Ratio Lower Upper
43 100
58 33.7 26.2 39.2

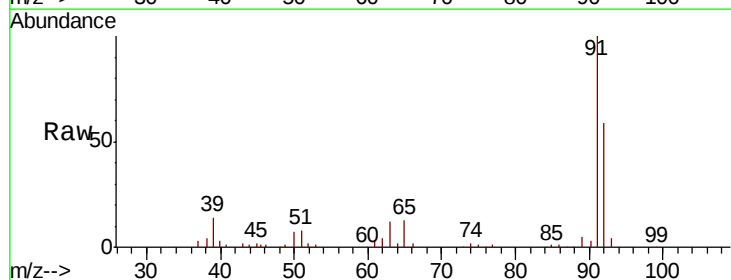


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

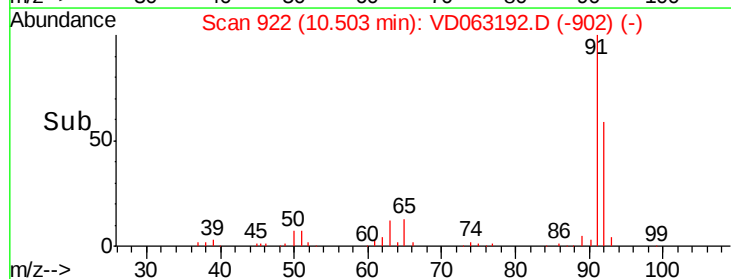
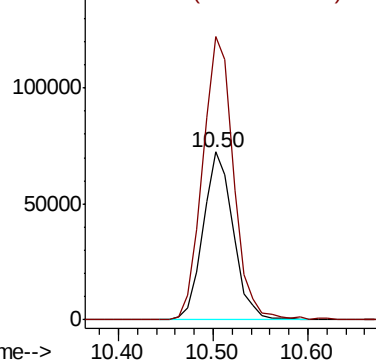


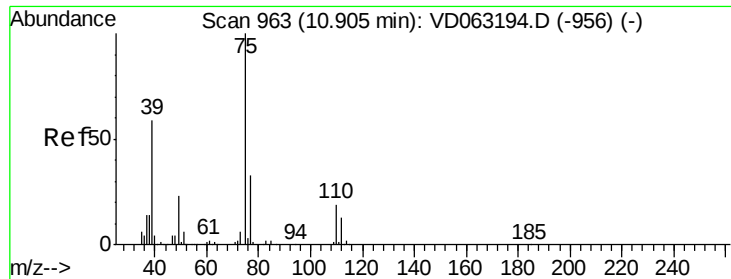
#52
Toluene
Concen: 10.537 ug/l
RT: 10.50 min Scan# 922
Delta R.T. 0.00 min
Lab File: VD063192.D
Acq: 29 Jul 2019 11:42

Tgt Ion: 92 Resp: 159141
Ion Ratio Lower Upper
92 100
91 168.6 140.8 211.2



Abundance Ion 92.00 (91.70 to 92.70): VDC
Ion 91.00 (90.70 to 91.70): VDC





#53

t-1,3-Dichloropropene

Concen: 10.187 ug/l

RT: 10.91 min Scan# 963

Delta R.T. 0.00 min

Lab File: VD063192.D

Acq: 29 Jul 2019 11:42

Instrument :

MSVOA_D

ClientSampleId :

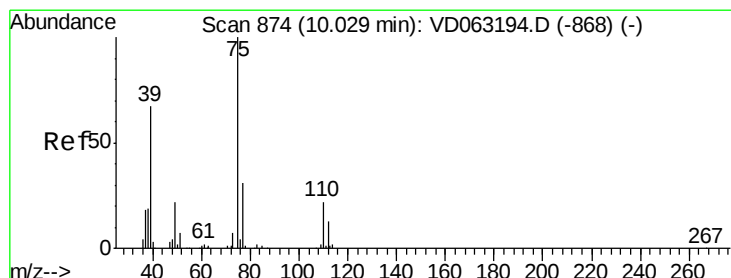
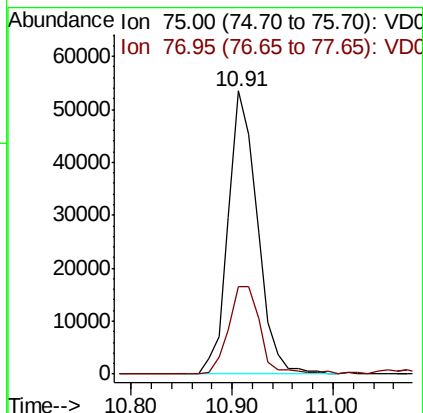
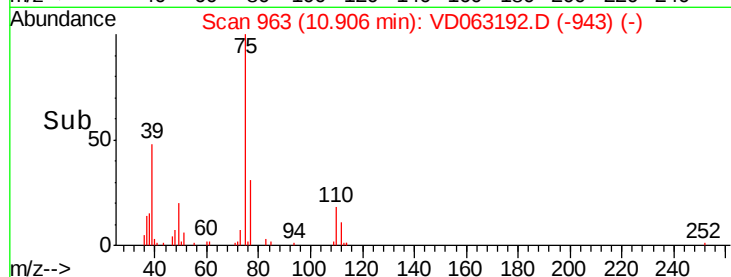
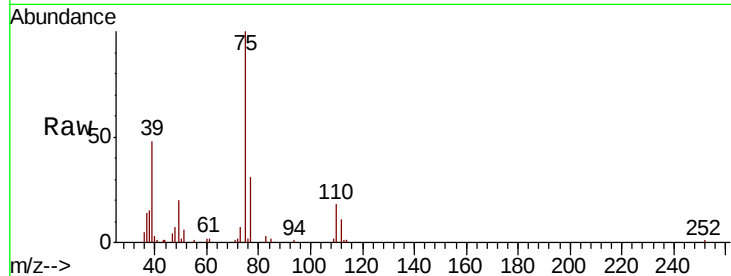
VSTDIC010

Tot Ion: 75 Resp: 107435

Ion Ratio Lower Upper

75 100

77 31.1 26.6 40.0



#54

cis-1,3-Dichloropropene

Concen: 11.217 ug/l

RT: 10.03 min Scan# 874

Delta R.T. 0.00 min

Lab File: VD063192.D

Acq: 29 Jul 2019 11:42

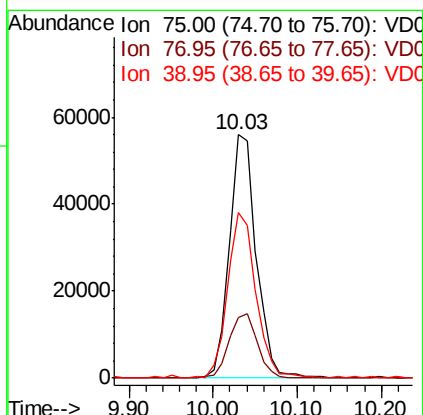
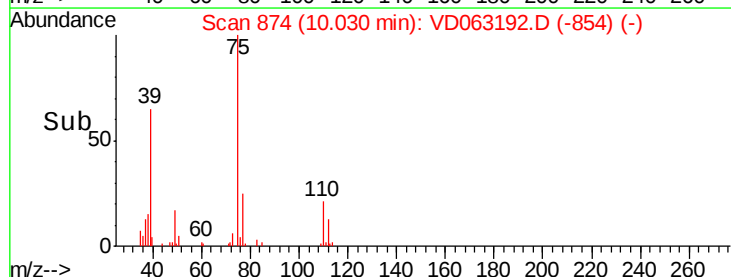
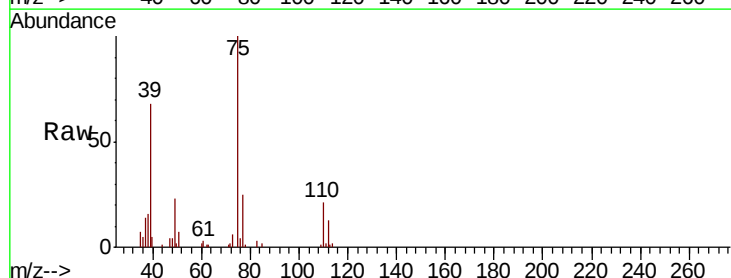
Tgt Ion: 75 Resp: 124331

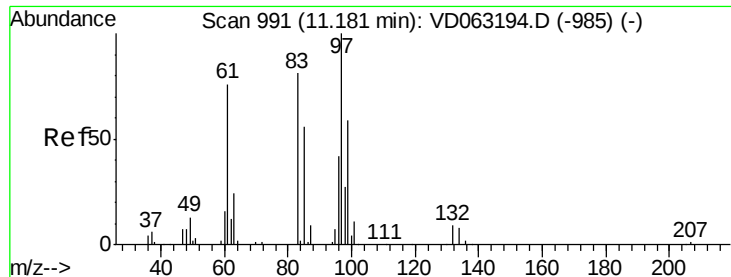
Ion Ratio Lower Upper

75 100

77 24.9 24.9 37.3#

39 68.0 53.9 80.9

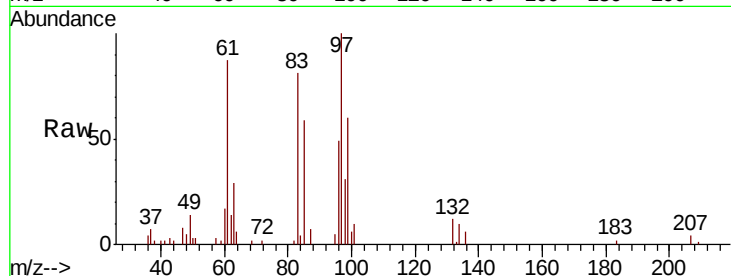




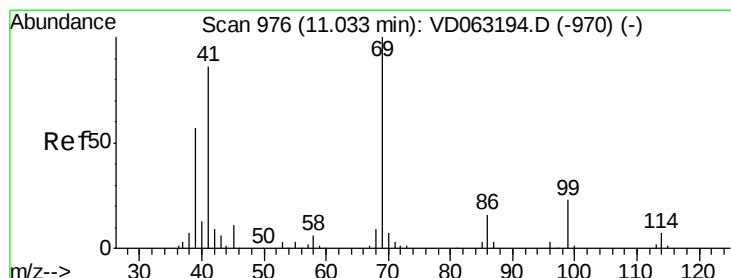
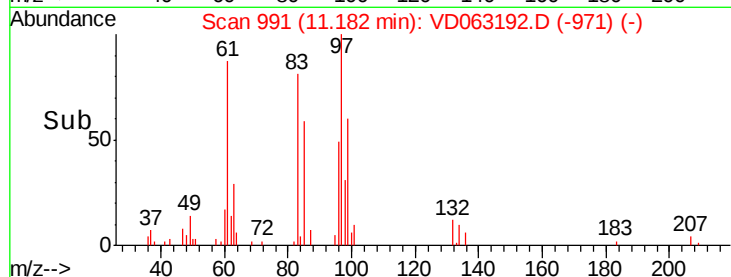
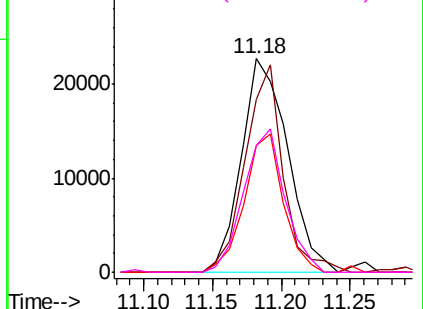
#55
1,1,2-Trichloroethane
Concen: 10.418 ug/l
RT: 11.18 min Scan# 991
Delta R.T. 0.00 min
Lab File: VD063192.D
Acq: 29 Jul 2019 11:42

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

Tot Ion:	97	Resp:	53136
Ion	Ratio	Lower	Upper
97	100		
83	81.2	64.8	97.2
85	59.1	44.9	67.3
99	59.6	47.2	70.8

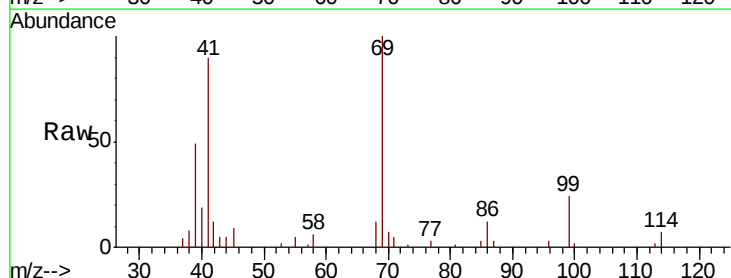


Abundance Ion 96.85 (96.55 to 97.55): VDC
Ion 82.95 (82.65 to 83.65): VDC
Ion 84.95 (84.65 to 85.65): VDC
Ion 98.85 (98.55 to 99.55): VDC

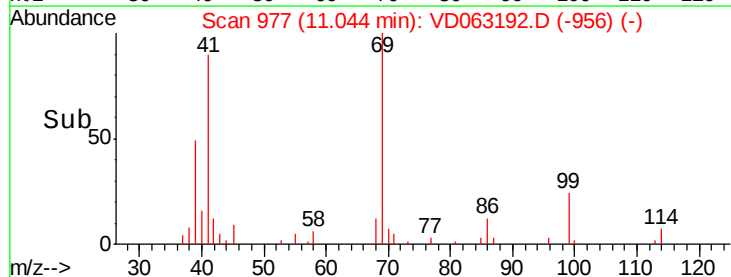
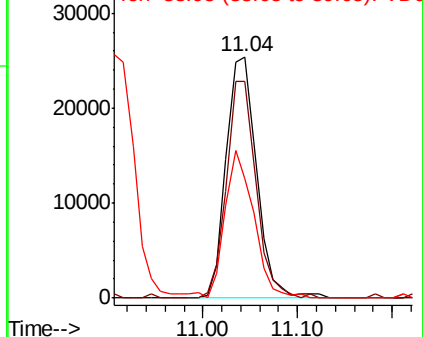


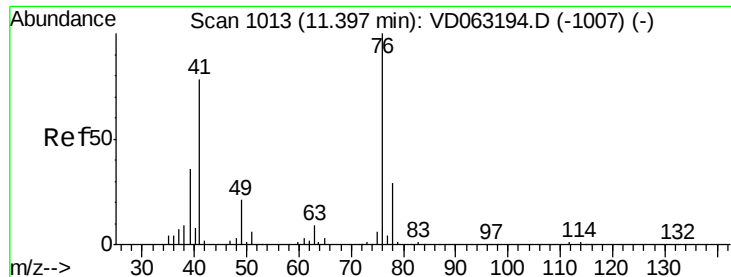
#56
Ethyl methacrylate
Concen: 10.160 ug/l
RT: 11.04 min Scan# 977
Delta R.T. 0.01 min
Lab File: VD063192.D
Acq: 29 Jul 2019 11:42

Tgt Ion:	69	Resp:	56747
Ion	Ratio	Lower	Upper
69	100		
41	89.9	68.8	103.2
39	49.5	45.8	68.8



Abundance Ion 69.00 (68.70 to 69.70): VDC
Ion 41.05 (40.75 to 41.75): VDC
Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 10.996 ug/l

RT: 11.41 min Scan# 1014

Delta R.T. 0.01 min

Lab File: VD063192.D

Acq: 29 Jul 2019 11:42

Instrument :

MSVOA_D

ClientSampleId :

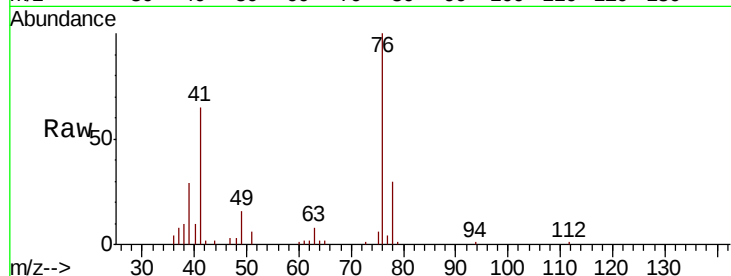
VSTDIC010

Tot Ion: 76 Resp: 88372

Ion Ratio Lower Upper

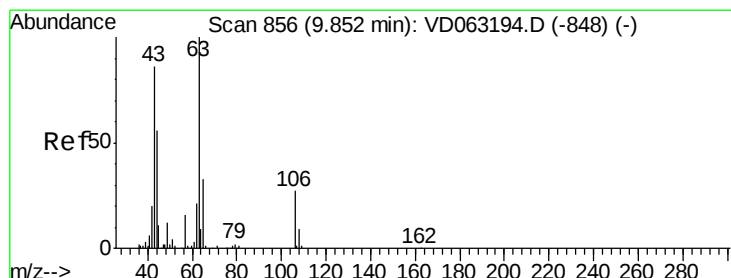
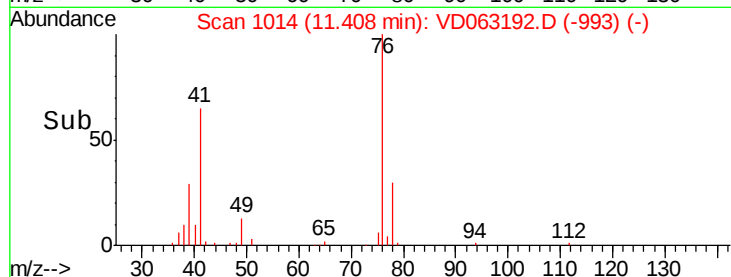
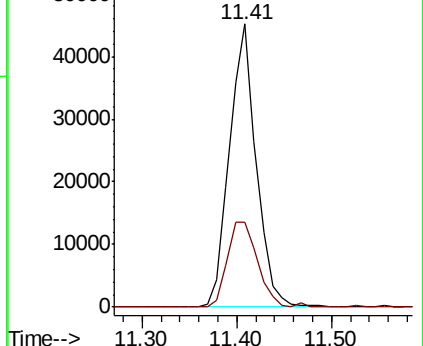
76 100

78 30.0 23.4 35.0



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 57.415 ug/l

RT: 9.85 min Scan# 856

Delta R.T. 0.00 min

Lab File: VD063192.D

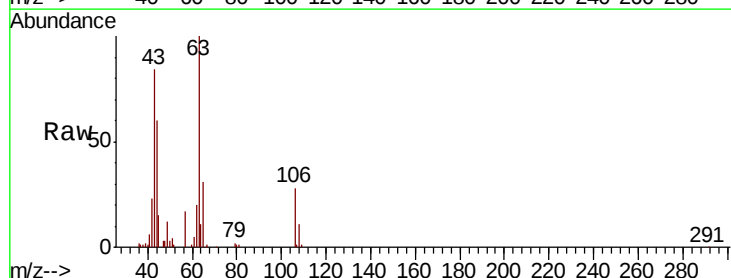
Acq: 29 Jul 2019 11:42

Tgt Ion: 63 Resp: 166864

Ion Ratio Lower Upper

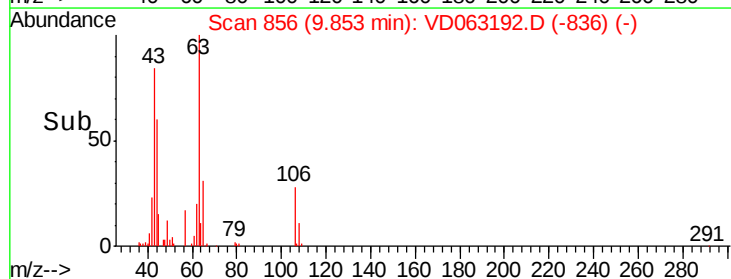
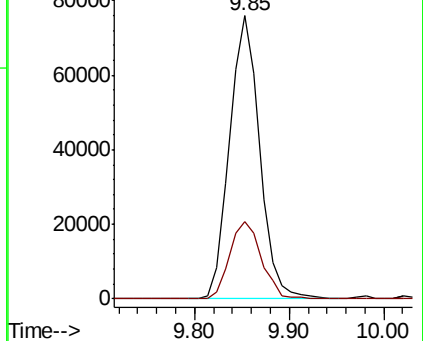
63 100

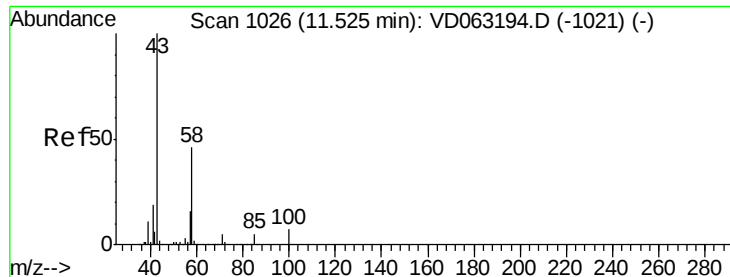
106 27.5 22.0 33.0



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): VDC

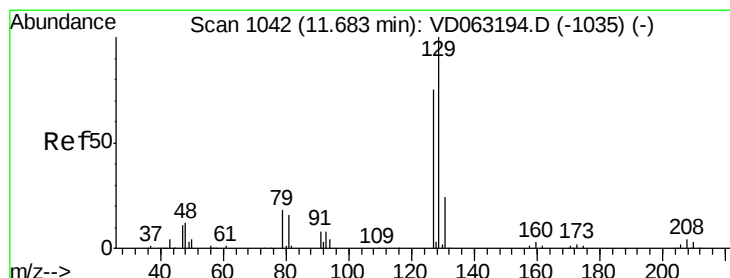
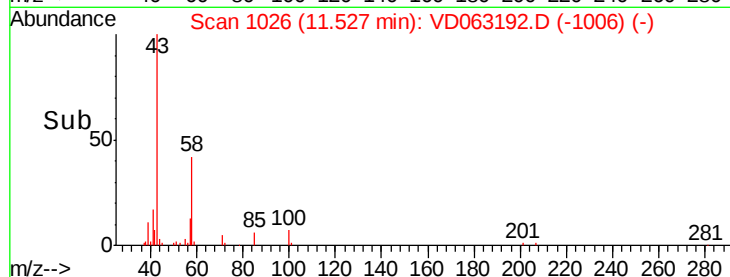
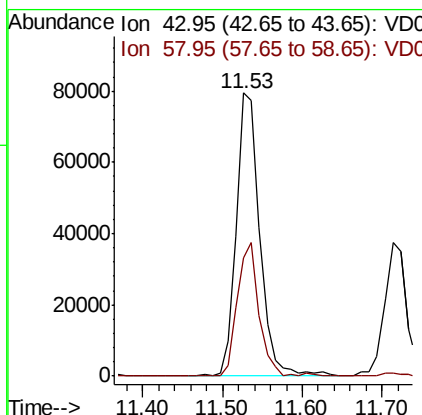
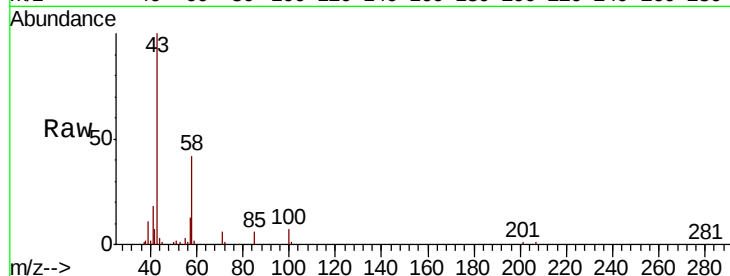




#59
2-Hexanone
Concen: 53.466 ug/l
RT: 11.53 min Scan# 1026
Delta R.T. 0.00 min
Lab File: VD063192.D
Acq: 29 Jul 2019 11:42

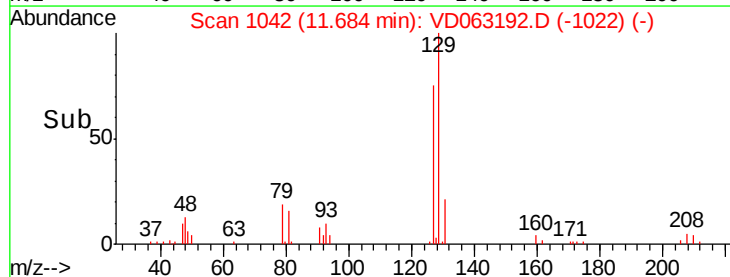
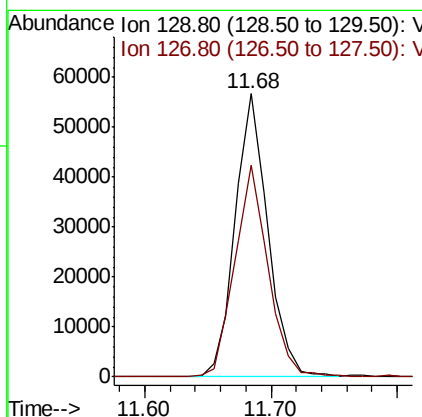
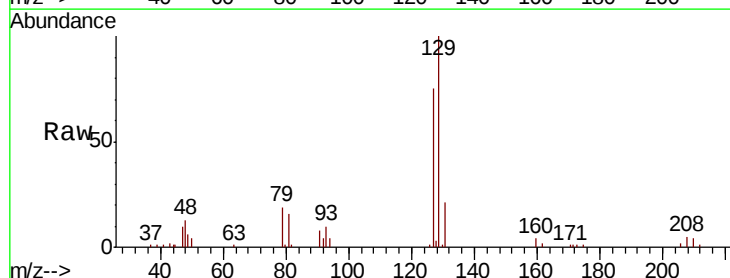
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

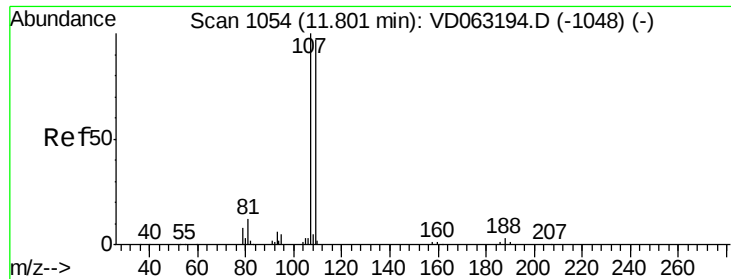
Tot Ion: 43 Resp: 162927
Ion Ratio Lower Upper
43 100
58 41.9 22.9 68.5



#60
Dibromochloromethane
Concen: 10.513 ug/l
RT: 11.68 min Scan# 1042
Delta R.T. 0.00 min
Lab File: VD063192.D
Acq: 29 Jul 2019 11:42

Tgt Ion: 129 Resp: 101233
Ion Ratio Lower Upper
129 100
127 74.6 37.6 112.8





#61

1,2-Dibromoethane

Concen: 9.976 ug/l

RT: 11.80 min Scan# 1054

Delta R.T. 0.00 min

Lab File: VD063192.D

Acq: 29 Jul 2019 11:42

Instrument :

MSVOA_D

ClientSampleId :

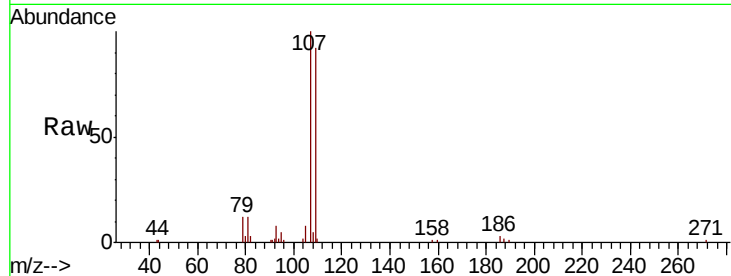
VSTDIC010

Tot Ion:107 Resp: 62787

Ion Ratio Lower Upper

107 100

109 91.6 77.5 116.3



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V

11.80

40000

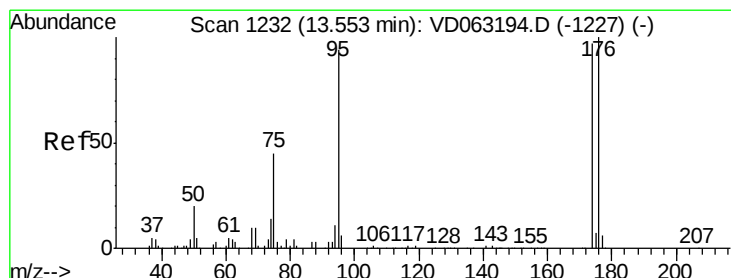
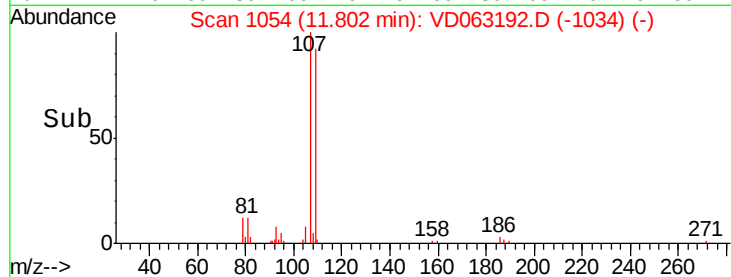
30000

20000

10000

0

Time--> 11.70 11.80 11.90



#62

4-Bromofluorobenzene

Concen: 10.573 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD063192.D

Acq: 29 Jul 2019 11:42

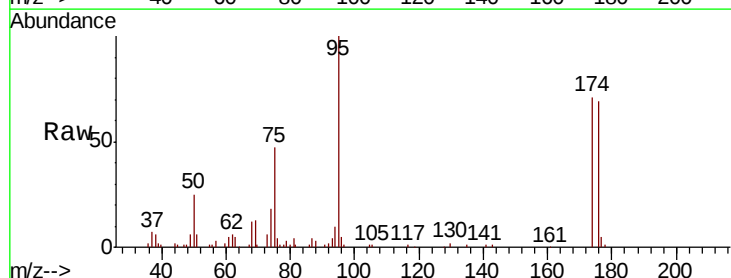
Tgt Ion: 95 Resp: 109291

Ion Ratio Lower Upper

95 100

174 70.6 0.0 205.4

176 68.6 0.0 211.8



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

13.55

100000

80000

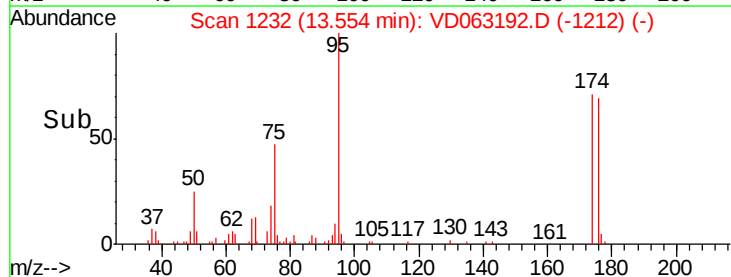
60000

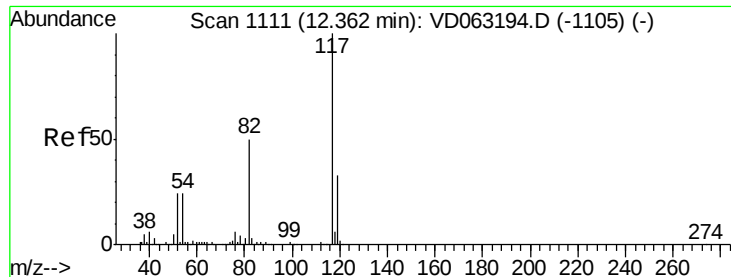
40000

20000

0

Time--> 13.50 13.55 13.60

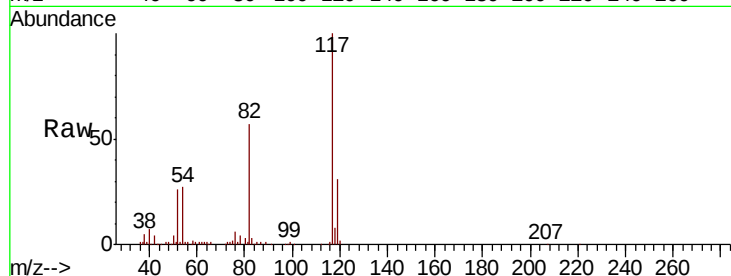




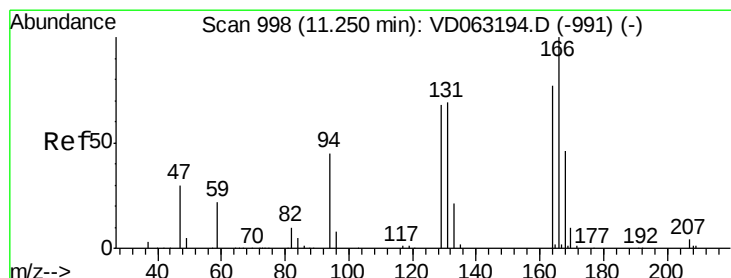
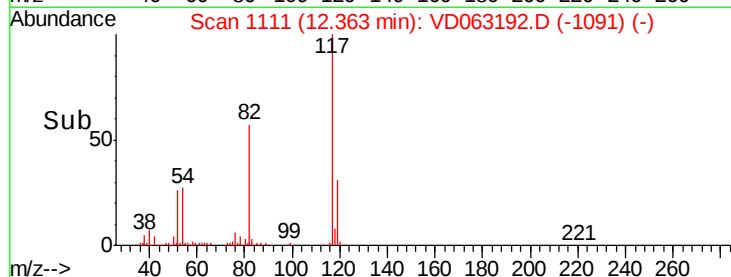
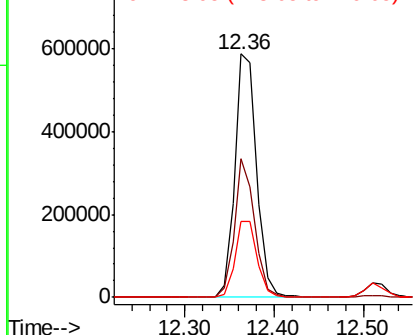
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD063192.D
Acq: 29 Jul 2019 11:42

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

Tot Ion:117 Resp: 1008883
Ion Ratio Lower Upper
117 100
82 57.2 40.1 60.1
119 31.2 26.5 39.7

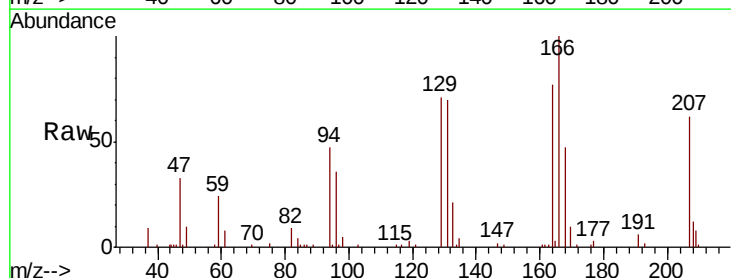


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

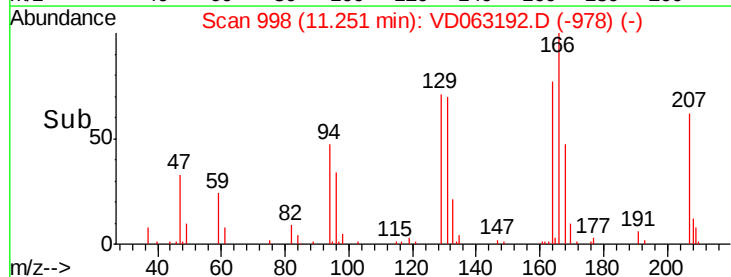
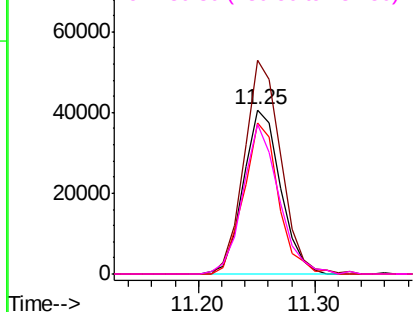


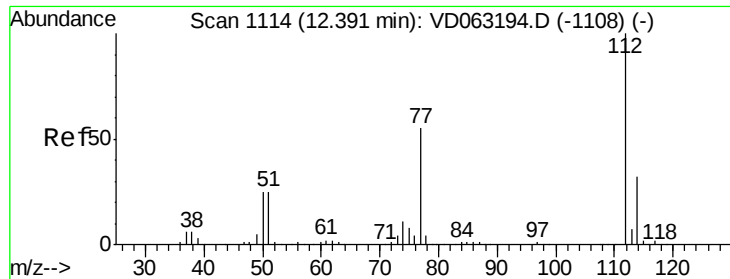
#64
Tetrachloroethene
Concen: 11.156 ug/l
RT: 11.25 min Scan# 998
Delta R.T. 0.00 min
Lab File: VD063192.D
Acq: 29 Jul 2019 11:42

Tgt Ion:164 Resp: 89665
Ion Ratio Lower Upper
164 100
166 130.3 104.3 156.5
129 92.3 70.9 106.3
131 91.2 71.6 107.4



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.85 (165.55 to 166.55): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

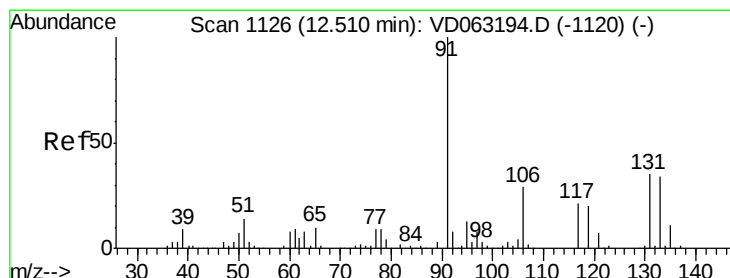
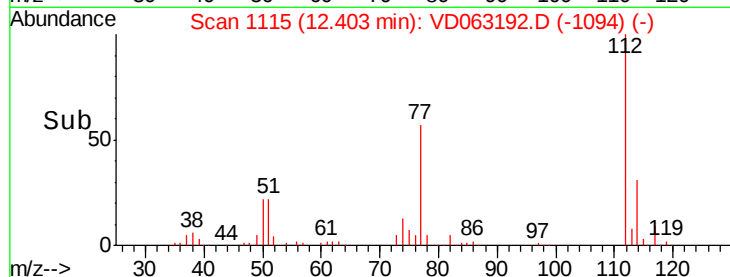
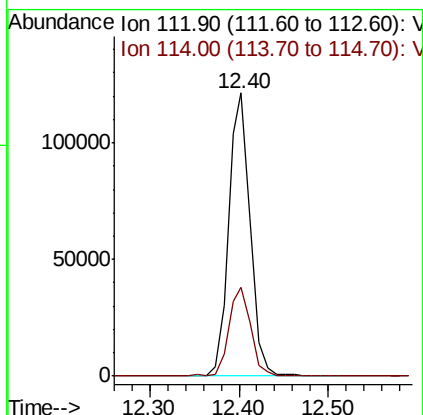
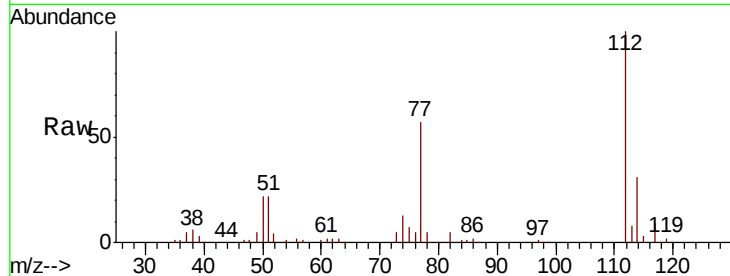




#65
Chlorobenzene
Concen: 10.613 ug/l
RT: 12.40 min Scan# 1115
Delta R.T. 0.01 min
Lab File: VD063192.D
Acq: 29 Jul 2019 11:42

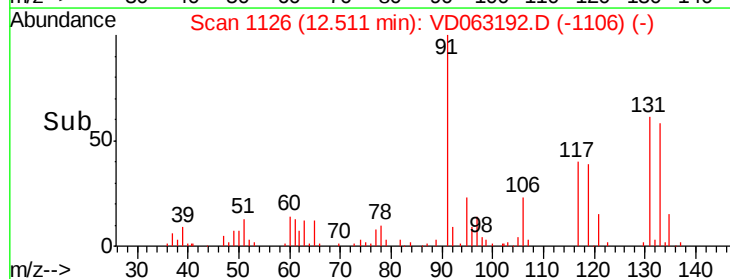
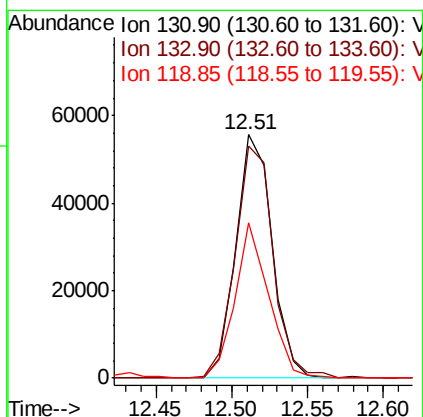
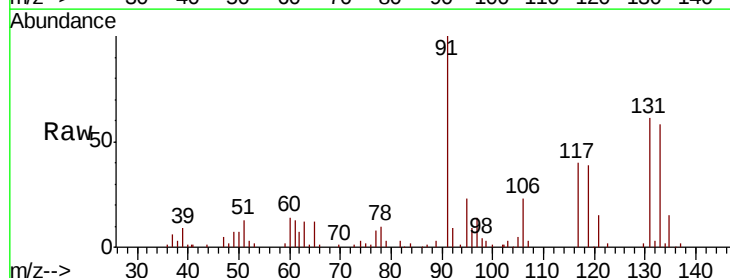
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

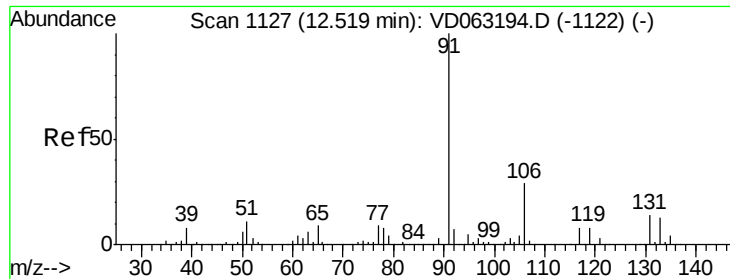
Tot Ion:112 Resp: 205944
Ion Ratio Lower Upper
112 100
114 31.2 25.8 38.8



#66
1,1,1,2-Tetrachloroethane
Concen: 10.788 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. 0.00 min
Lab File: VD063192.D
Acq: 29 Jul 2019 11:42

Tgt Ion:131 Resp: 92218
Ion Ratio Lower Upper
131 100
133 95.1 48.4 145.2
119 63.8 29.1 87.3

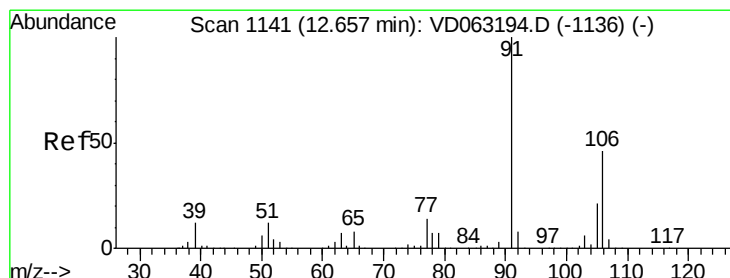
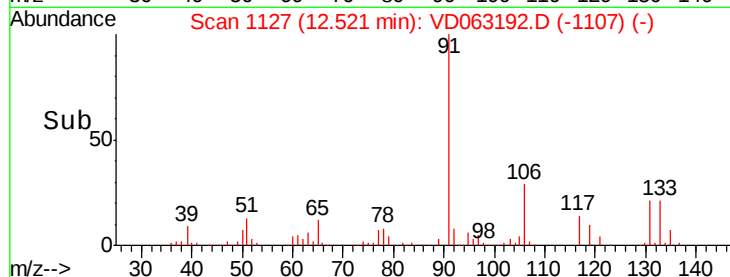
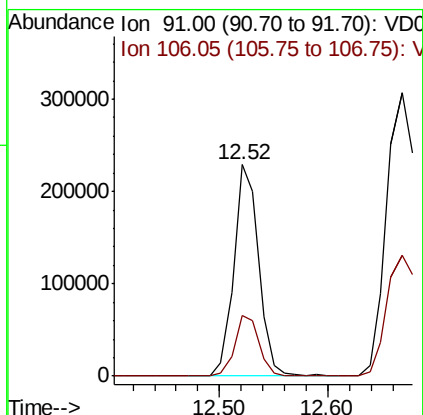
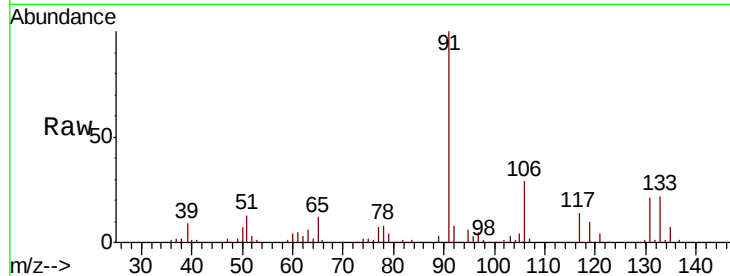




#67
Ethyl Benzene
Concen: 11.060 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. 0.00 min
Lab File: VD063192.D
Acq: 29 Jul 2019 11:42

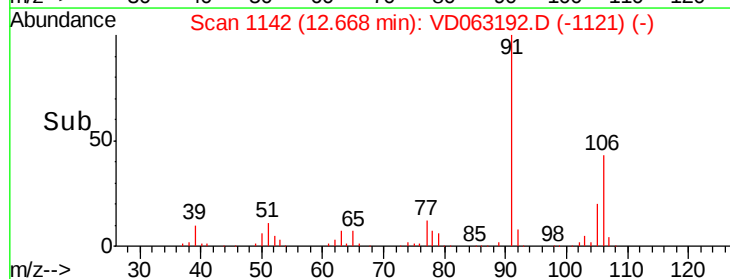
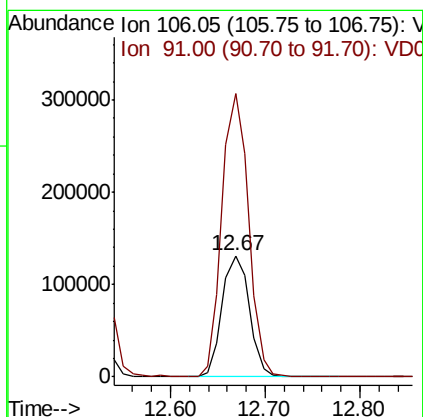
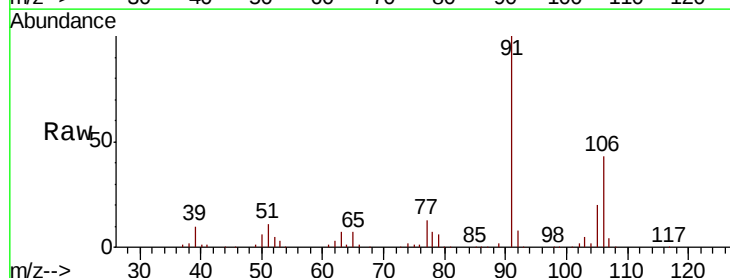
Instrument :
MSVOA_D
ClientSampleID :
VSTDIC010

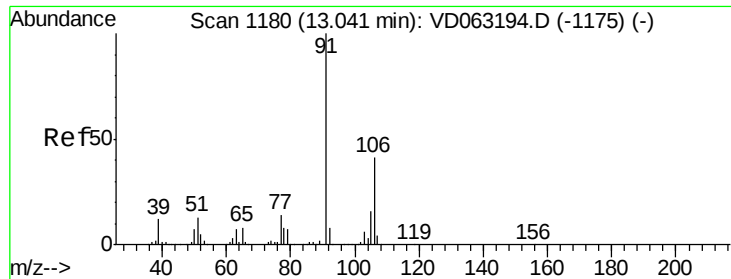
Tot Ion: 91 Resp: 364609
Ion Ratio Lower Upper
91 100
106 28.6 22.9 34.3



#68
m/p-Xylenes
Concen: 21.707 ug/l
RT: 12.67 min Scan# 1142
Delta R.T. 0.01 min
Lab File: VD063192.D
Acq: 29 Jul 2019 11:42

Tgt Ion: 106 Resp: 262428
Ion Ratio Lower Upper
106 100
91 233.3 172.6 259.0

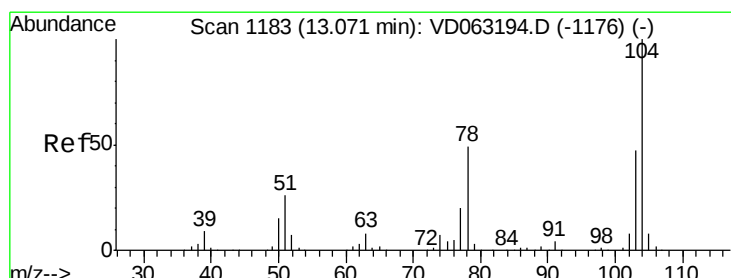
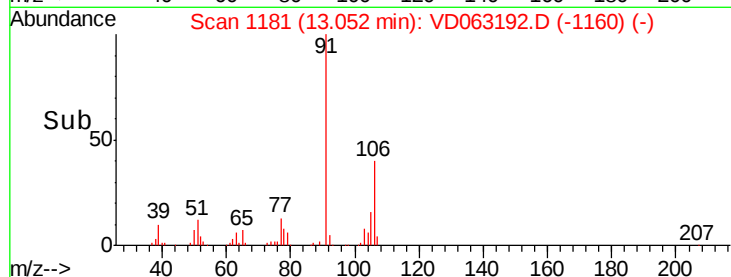
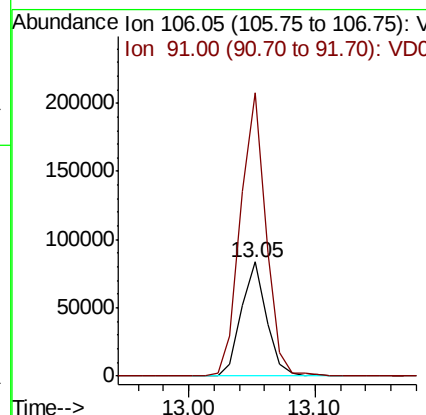
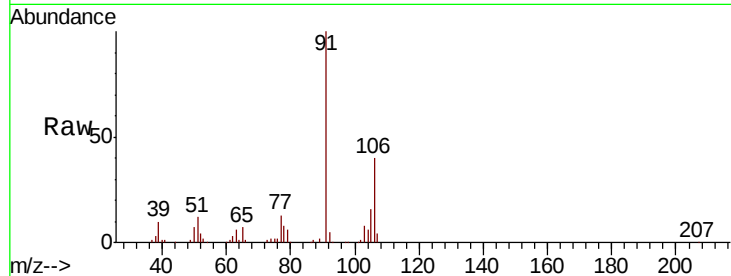




#69
o-Xylene
Concen: 10.370 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. 0.01 min
Lab File: VD063192.D
Acq: 29 Jul 2019 11:42

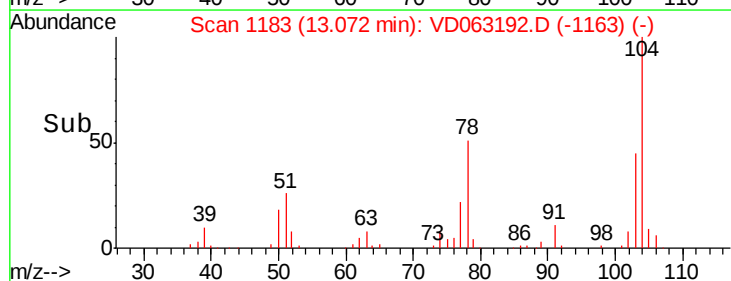
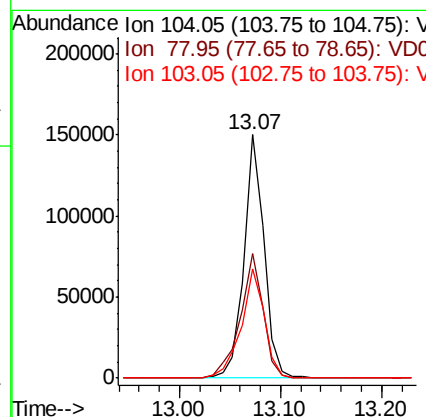
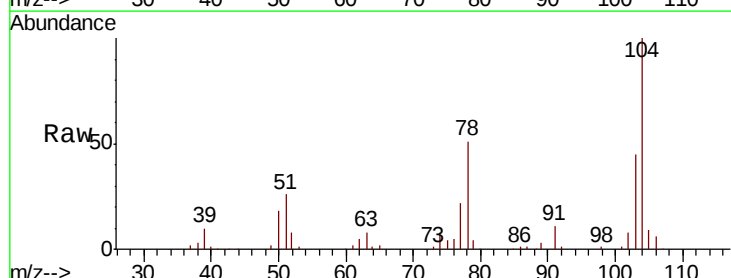
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

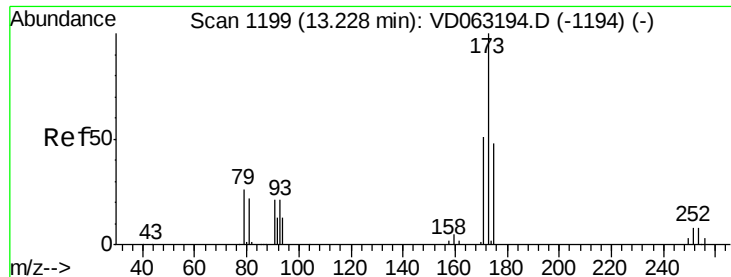
Tot Ion:106 Resp: 115125
Ion Ratio Lower Upper
106 100
91 248.0 121.3 363.9



#70
Styrene
Concen: 10.546 ug/l
RT: 13.07 min Scan# 1183
Delta R.T. 0.00 min
Lab File: VD063192.D
Acq: 29 Jul 2019 11:42

Tgt Ion:104 Resp: 207627
Ion Ratio Lower Upper
104 100
78 51.3 39.4 59.0
103 44.7 37.4 56.2

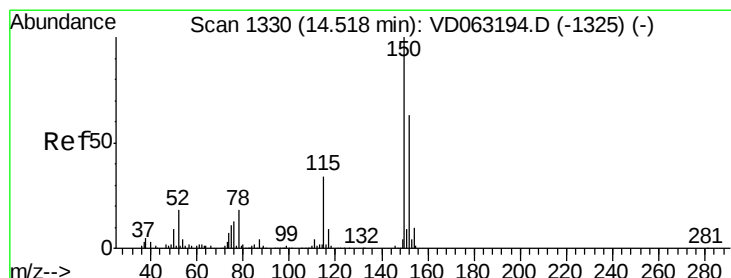
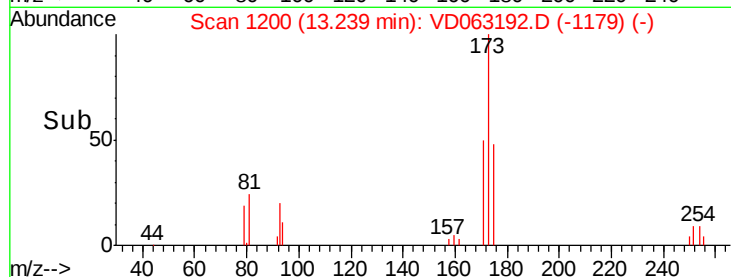
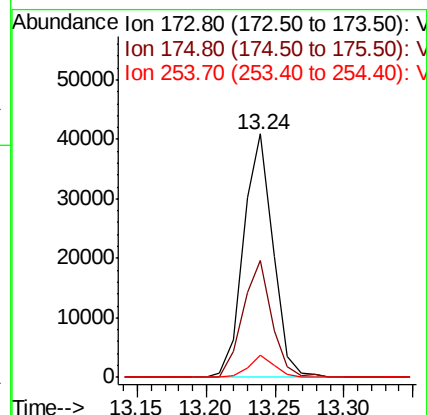
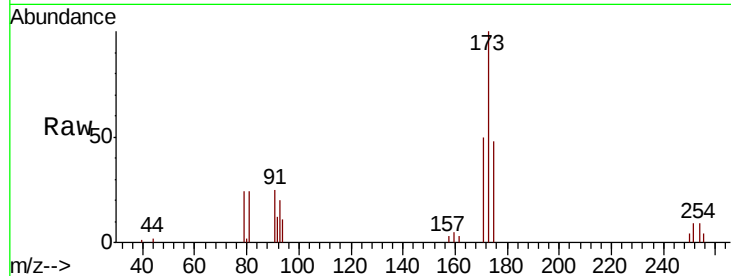




#71
Bromoform
Concen: 9.789 ug/l
RT: 13.24 min Scan# 1200
Delta R.T. 0.01 min
Lab File: VD063192.D
Acq: 29 Jul 2019 11:42

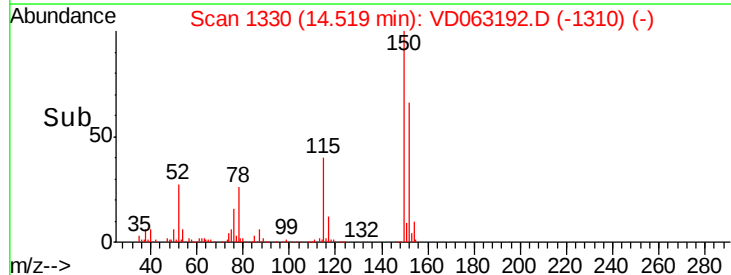
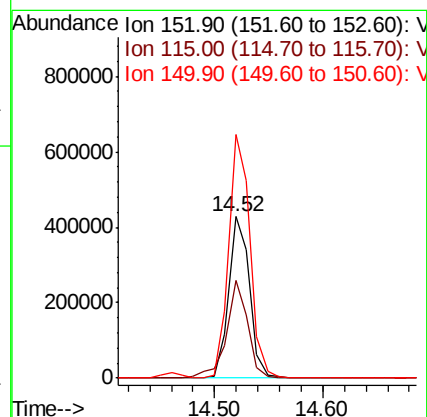
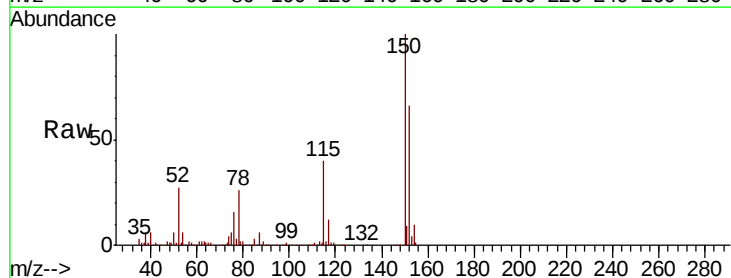
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

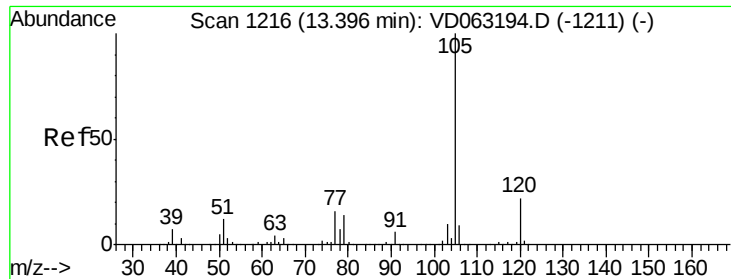
Tot Ion:173 Resp: 60849
Ion Ratio Lower Upper
173 100
175 47.9 23.8 71.5
254 9.4 6.6 10.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD063192.D
Acq: 29 Jul 2019 11:42

Tgt Ion:152 Resp: 571112
Ion Ratio Lower Upper
152 100
115 60.5 27.5 82.4
150 150.8 0.0 320.6





#73

Isopropylbenzene

Concen: 10.761 ug/l

RT: 13.41 min Scan# 1217

Delta R.T. 0.01 min

Lab File: VD063192.D

Acq: 29 Jul 2019 11:42

Instrument :

MSVOA_D

ClientSampleId :

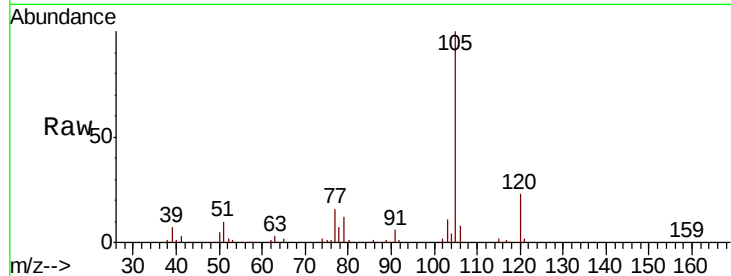
VSTDIC010

Tot Ion: 105 Resp: 385734

Ion Ratio Lower Upper

105 100

120 22.7 11.1 33.3



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

13.41

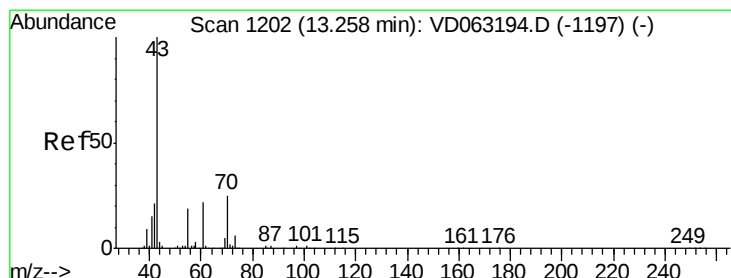
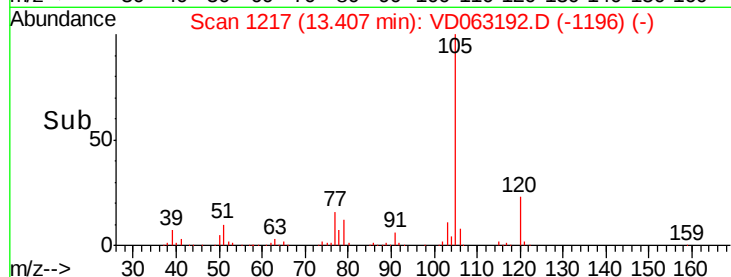
300000

200000

100000

0

Time-->



#74

N-ethyl acetate

Concen: 9.805 ug/l

RT: 13.27 min Scan# 1203

Delta R.T. 0.01 min

Lab File: VD063192.D

Acq: 29 Jul 2019 11:42

Tgt Ion: 43 Resp: 92908

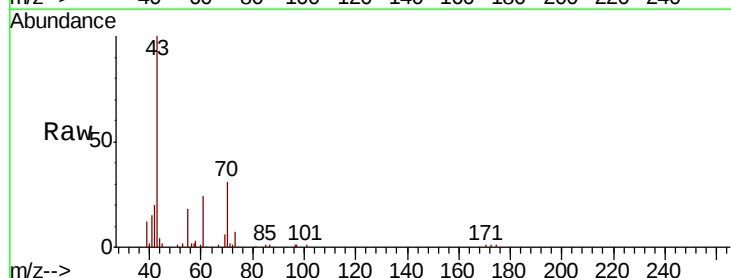
Ion Ratio Lower Upper

43 100

70 30.8 20.2 30.4#

55 18.0 14.9 22.3

61 23.7 17.9 26.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC

100000

80000

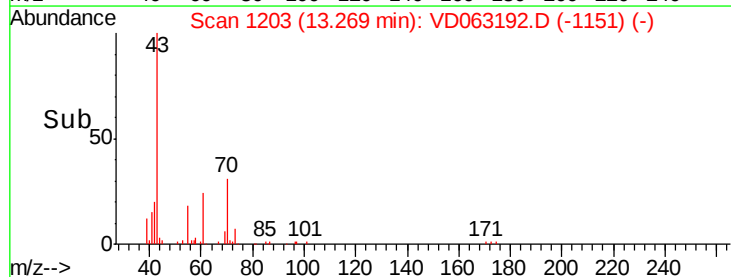
60000

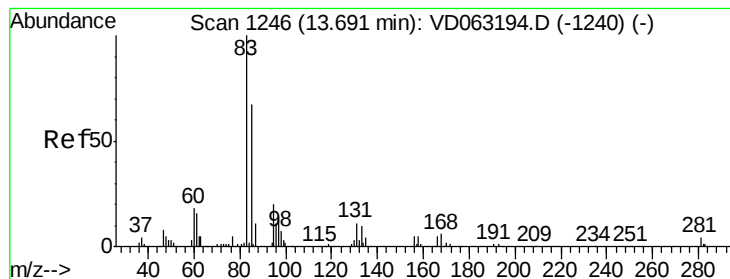
40000

20000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 9.624 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. 0.01 min

Lab File: VD063192.D

Acq: 29 Jul 2019 11:42

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC010

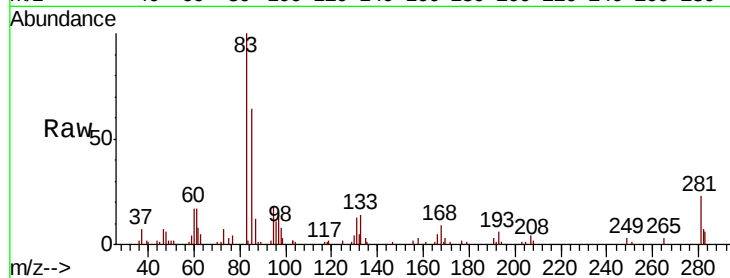
Tot Ion: 83 Resp: 58597

Ion Ratio Lower Upper

83 100

131 12.7 5.5 16.7

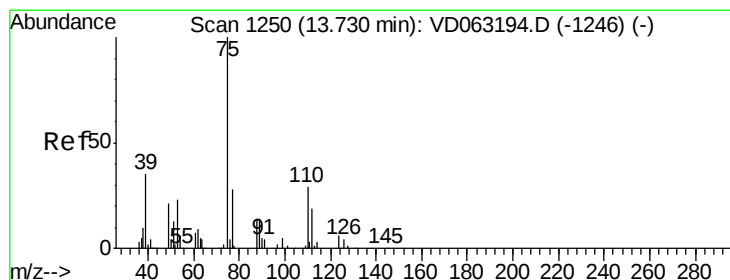
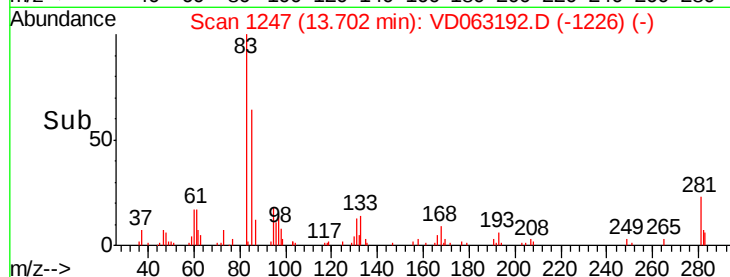
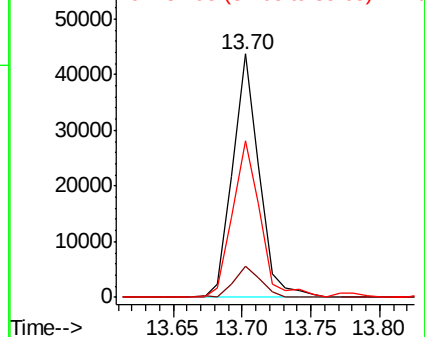
85 64.2 33.7 101.1



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 10.412 ug/l

RT: 13.74 min Scan# 1251

Delta R.T. 0.01 min

Lab File: VD063192.D

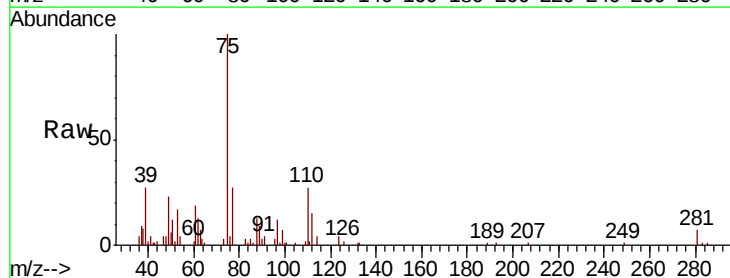
Acq: 29 Jul 2019 11:42

Tgt Ion: 75 Resp: 71421

Ion Ratio Lower Upper

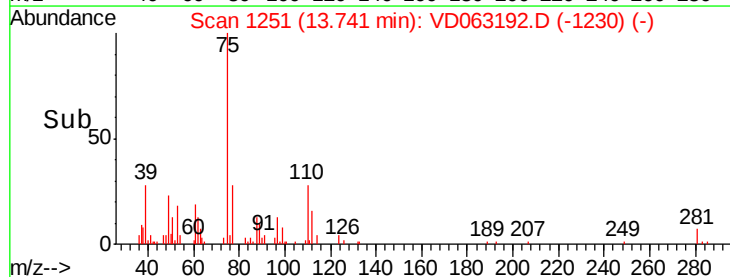
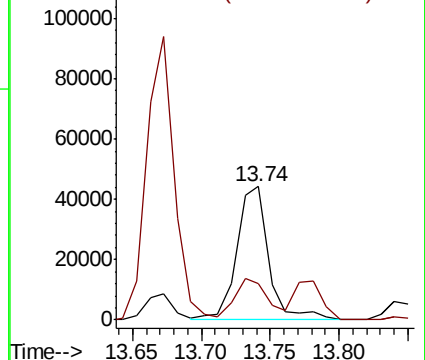
75 100

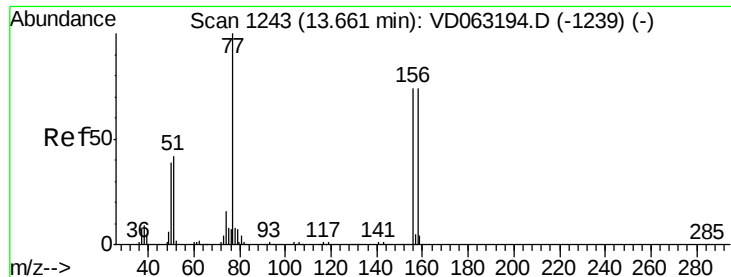
77 27.4 16.0 48.0



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 9.885 ug/l

RT: 13.67 min Scan# 1244

Delta R.T. 0.01 min

Lab File: VD063192.D

Acq: 29 Jul 2019 11:42

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC010

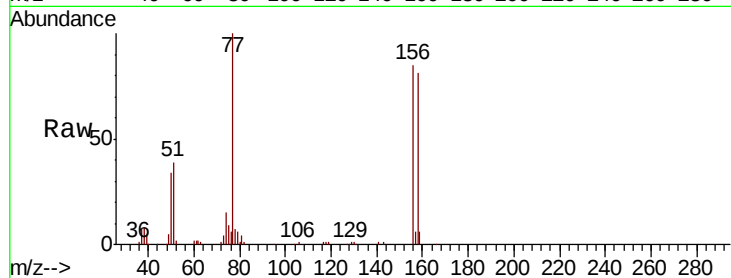
Tot Ion:156 Resp: 100932

Ion Ratio Lower Upper

156 100

77 117.6 67.6 202.8

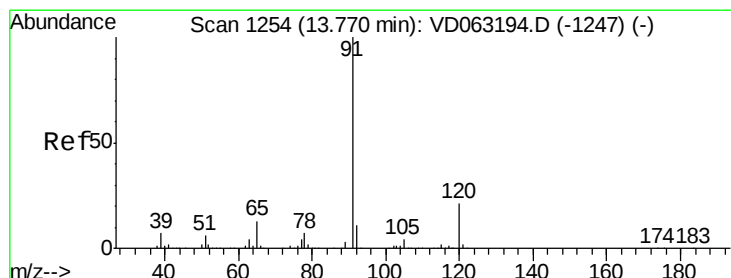
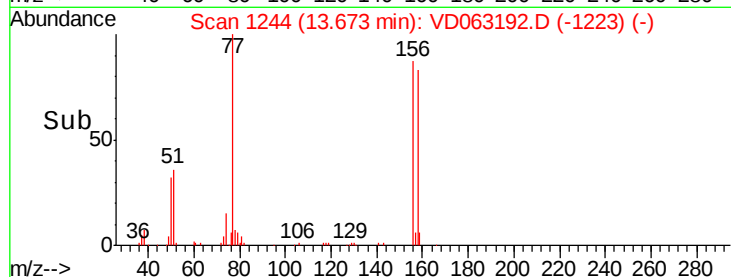
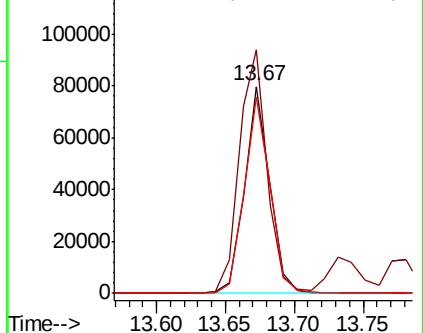
158 95.1 49.8 149.4



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 10.331 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. 0.01 min

Lab File: VD063192.D

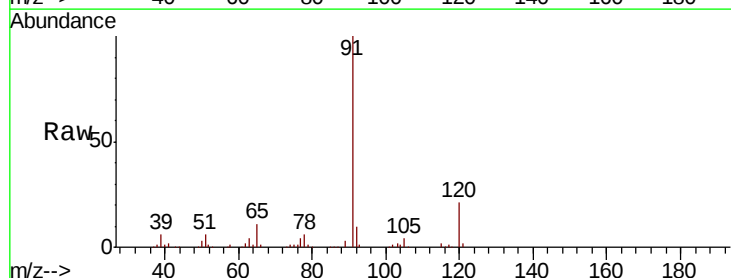
Acq: 29 Jul 2019 11:42

Tgt Ion: 91 Resp: 440688

Ion Ratio Lower Upper

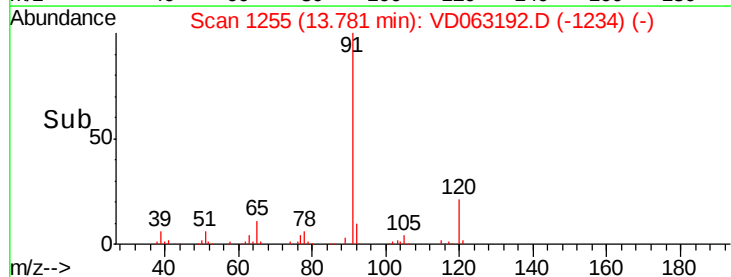
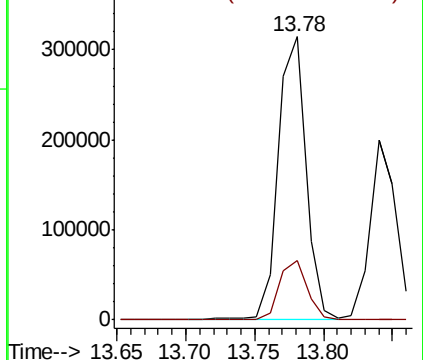
91 100

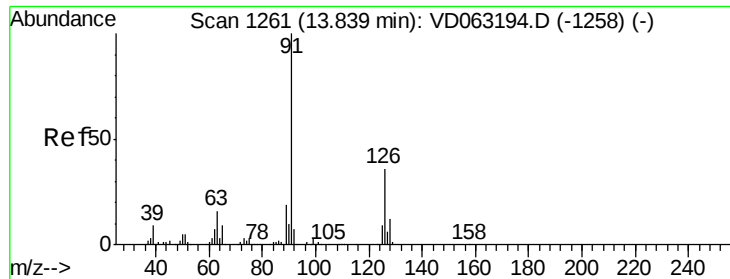
120 21.0 10.7 32.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

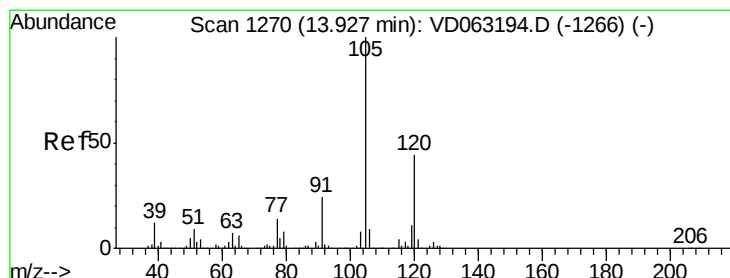
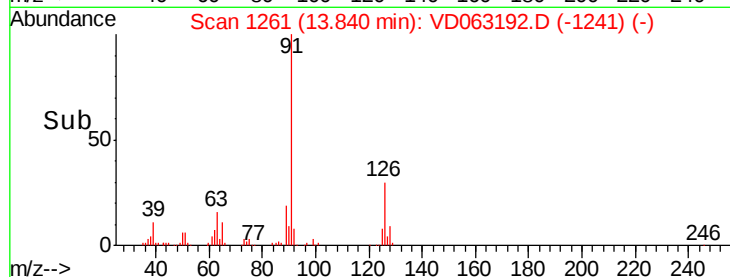
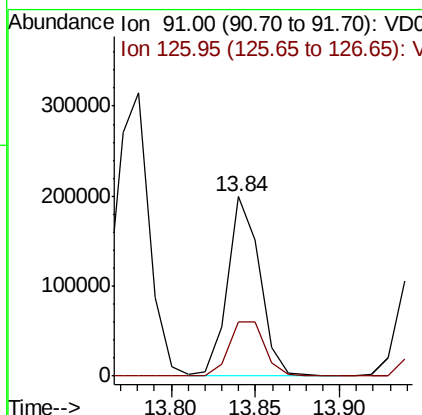
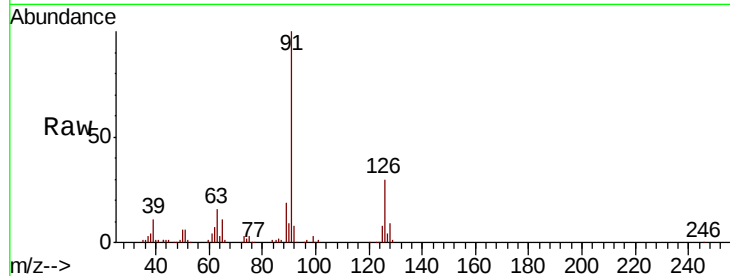




#79
 2-Chlorotoluene
 Concen: 10.725 ug/l
 RT: 13.84 min Scan# 1261
 Delta R.T. 0.00 min
 Lab File: VD063192.D
 Acq: 29 Jul 2019 11:42

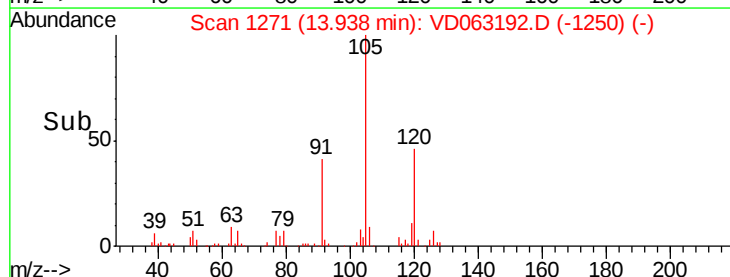
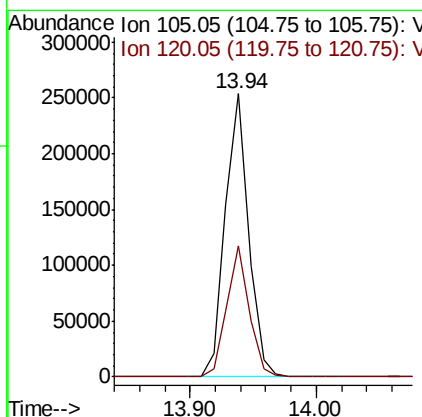
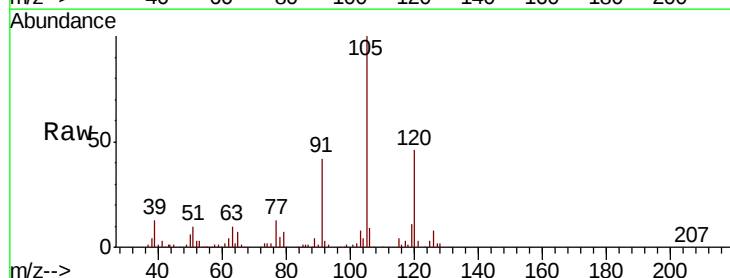
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC010

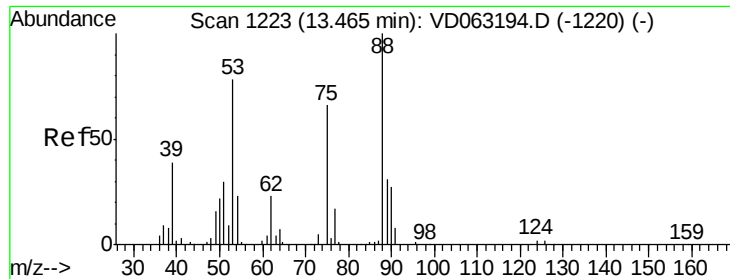
Tot Ion: 91 Resp: 265095
 Ion Ratio Lower Upper
 91 100
 126 30.0 17.8 53.5



#80
 1,3,5-Trimethylbenzene
 Concen: 10.453 ug/l
 RT: 13.94 min Scan# 1271
 Delta R.T. 0.01 min
 Lab File: VD063192.D
 Acq: 29 Jul 2019 11:42

Tgt Ion: 105 Resp: 323155
 Ion Ratio Lower Upper
 105 100
 120 46.3 22.1 66.1





#81

trans-1,4-Dichloro-2-butene

Concen: 10.289 ug/l

RT: 13.48 min Scan# 1224

Delta R.T. 0.01 min

Lab File: VD063192.D

Acq: 29 Jul 2019 11:42

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC010

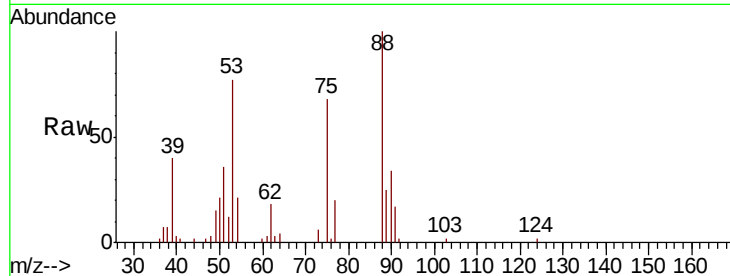
Tot Ion: 75 Resp: 19598

Ion Ratio Lower Upper

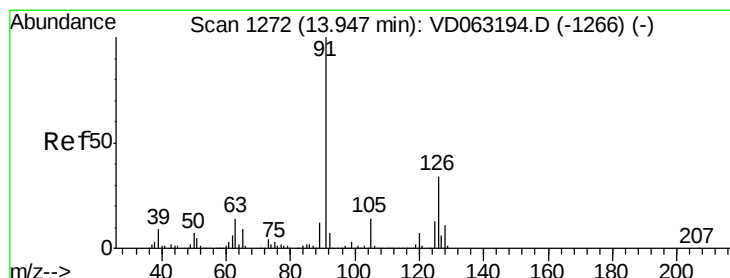
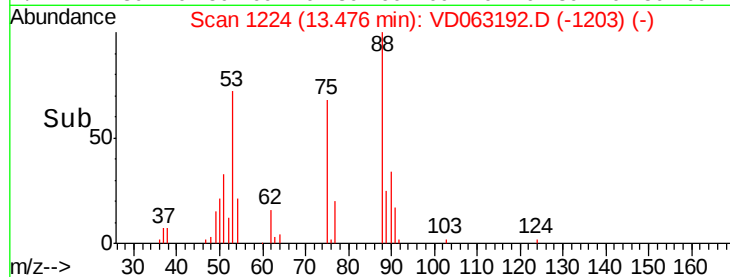
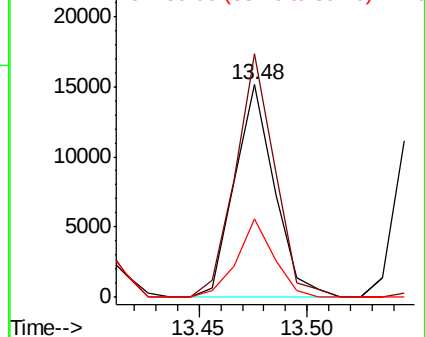
75 100

53 114.7 94.9 142.3

89 37.0 37.4 56.0#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC



#82

4-Chlorotoluene

Concen: 10.804 ug/l

RT: 13.95 min Scan# 1272

Delta R.T. 0.00 min

Lab File: VD063192.D

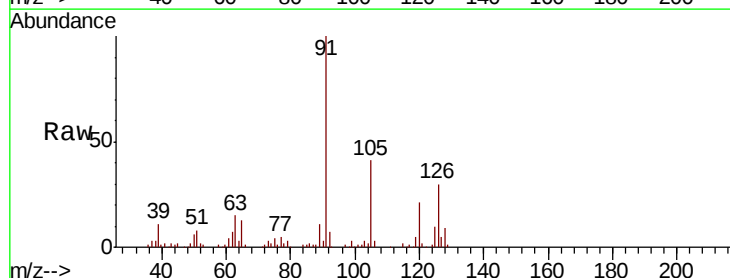
Acq: 29 Jul 2019 11:42

Tgt Ion: 91 Resp: 314262

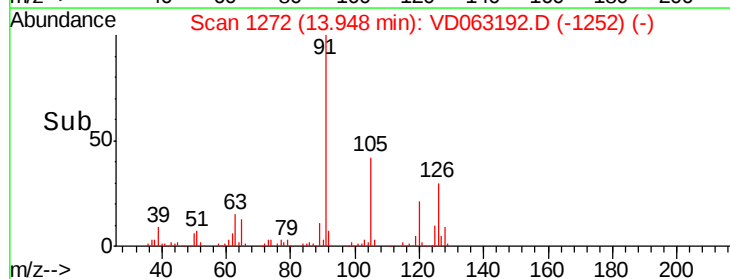
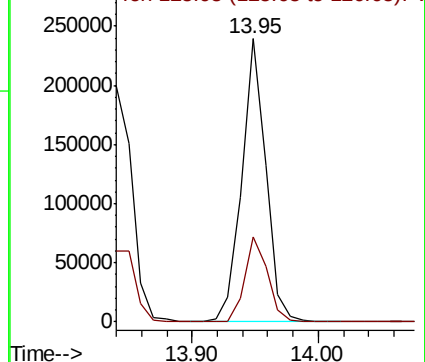
Ion Ratio Lower Upper

91 100

126 30.0 17.1 51.2



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V





#83

tert-Butylbenzene

Concen: 10.235 ug/l

RT: 14.19 min Scan# 1297

Delta R.T. 0.01 min

Lab File: VD063192.D

Acq: 29 Jul 2019 11:42

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC010

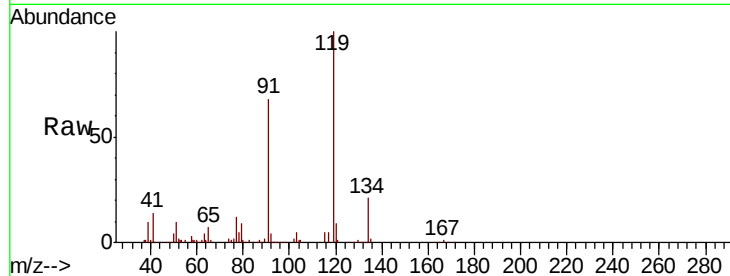
Tot Ion:119 Resp: 361297

Ion Ratio Lower Upper

119 100

91 67.7 39.1 117.5

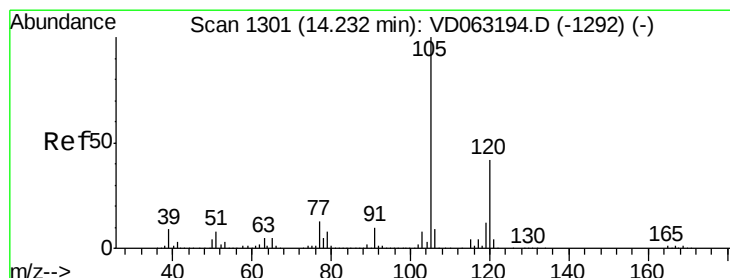
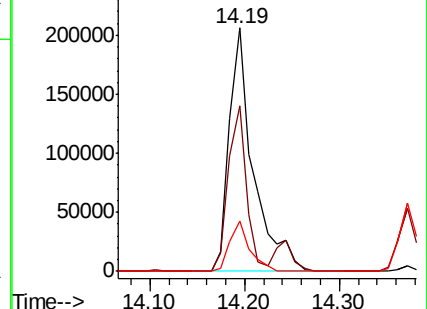
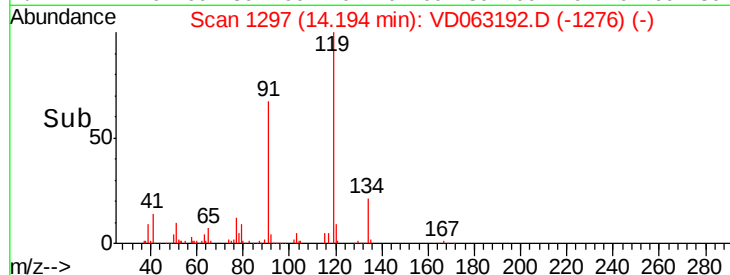
134 20.7 10.9 32.6



Abundance Ion 119.05 (118.75 to 119.75): 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: 10.286 ug/l

RT: 14.24 min Scan# 1302

Delta R.T. 0.01 min

Lab File: VD063192.D

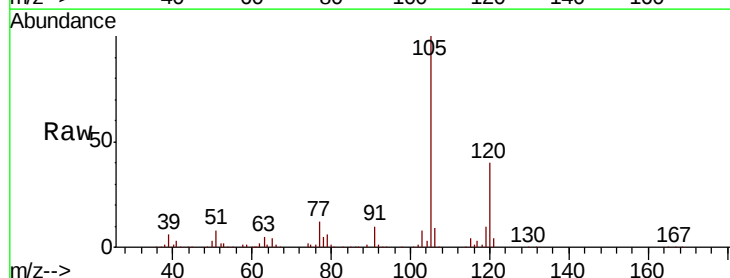
Acq: 29 Jul 2019 11:42

Tgt Ion:105 Resp: 328935

Ion Ratio Lower Upper

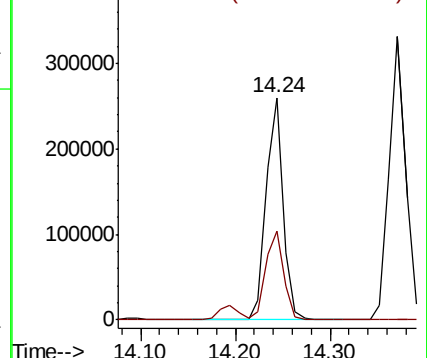
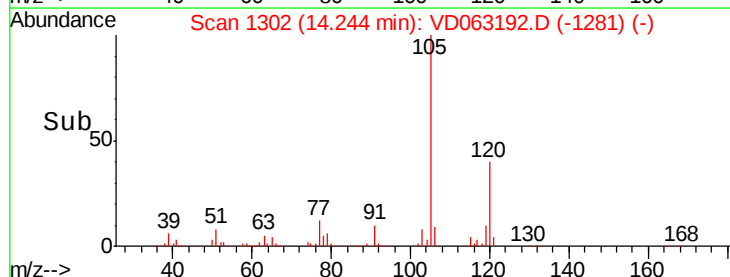
105 100

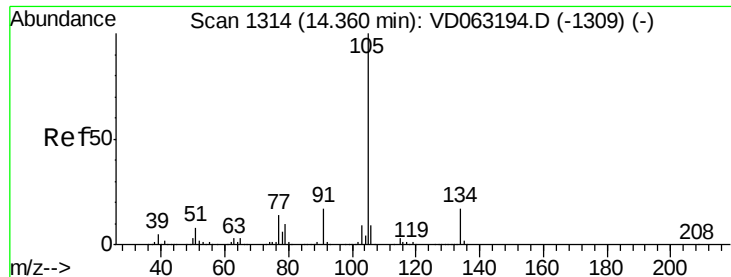
120 40.2 20.9 62.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#85

sec-Butylbenzene

Concen: 10.831 ug/l

RT: 14.37 min Scan# 1315

Delta R.T. 0.01 min

Lab File: VD063192.D

Acq: 29 Jul 2019 11:42

Instrument :

MSVOA_D

ClientSampleId :

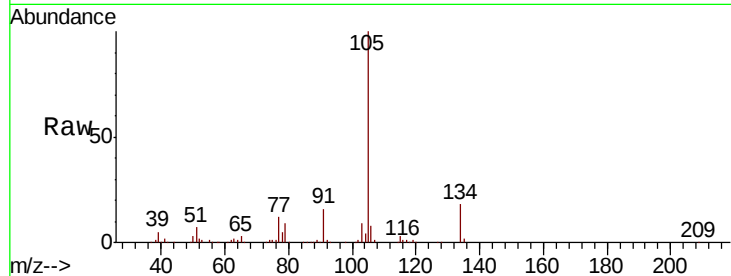
VSTDIC010

Tot Ion:105 Resp: 402841

Ion Ratio Lower Upper

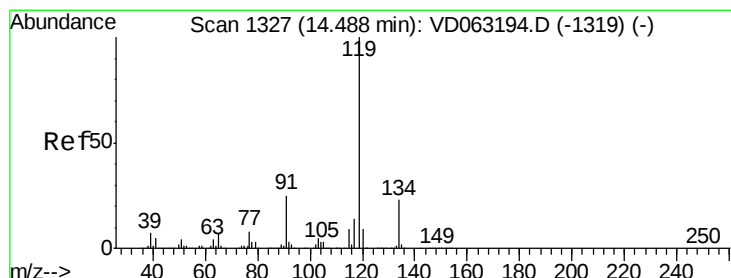
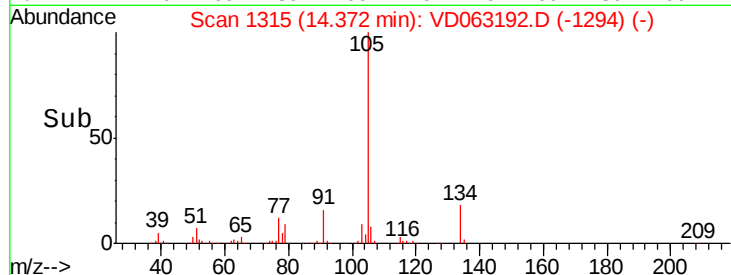
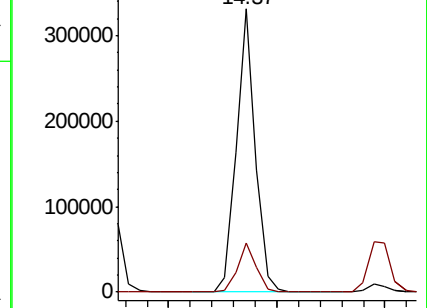
105 100

134 17.5 8.3 24.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#86

p-Isopropyltoluene

Concen: 10.430 ug/l

RT: 14.49 min Scan# 1327

Delta R.T. 0.00 min

Lab File: VD063192.D

Acq: 29 Jul 2019 11:42

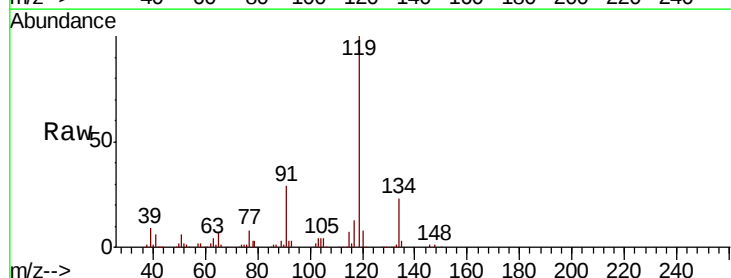
Tgt Ion:119 Resp: 370221

Ion Ratio Lower Upper

119 100

134 22.7 11.5 34.5

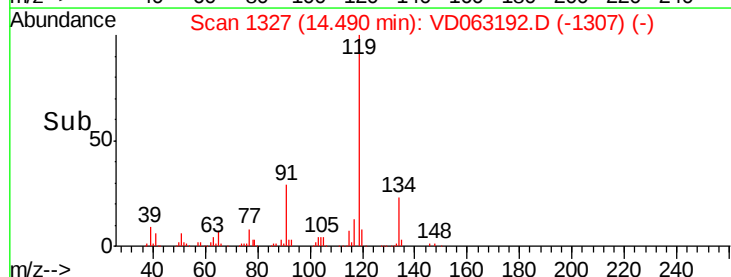
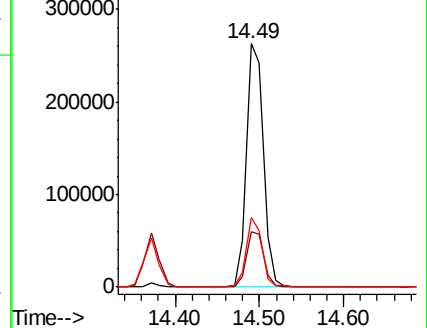
91 28.8 12.6 37.6

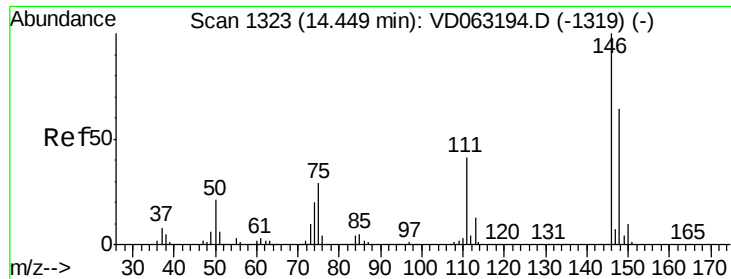


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

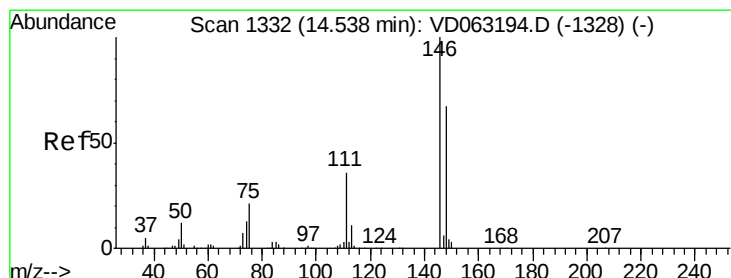
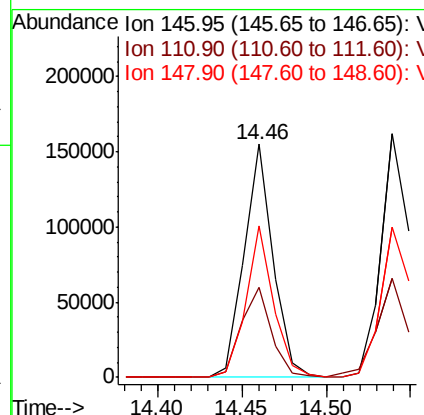
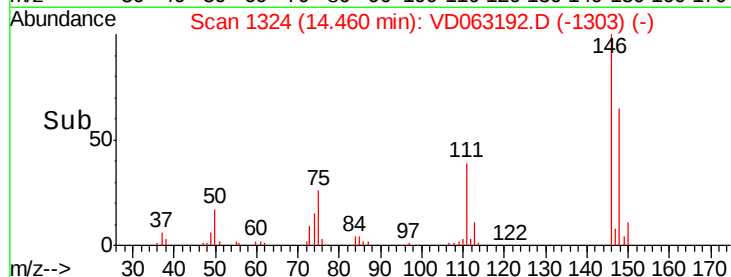
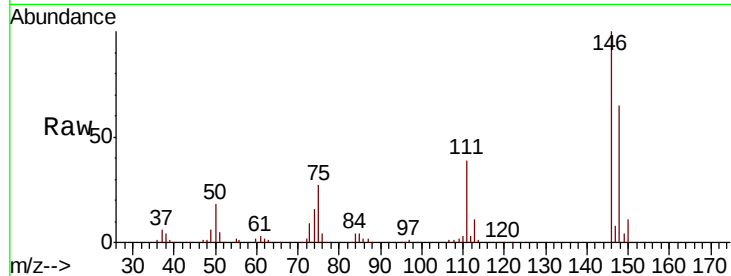




#87
 1,3-Dichlorobenzene
 Concen: 10.241 ug/l
 RT: 14.46 min Scan# 1324
 Delta R.T. 0.01 min
 Lab File: VD063192.D
 Acq: 29 Jul 2019 11:42

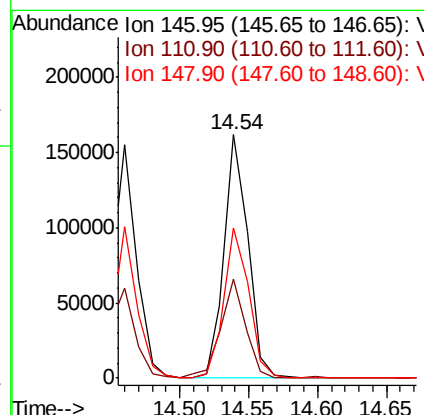
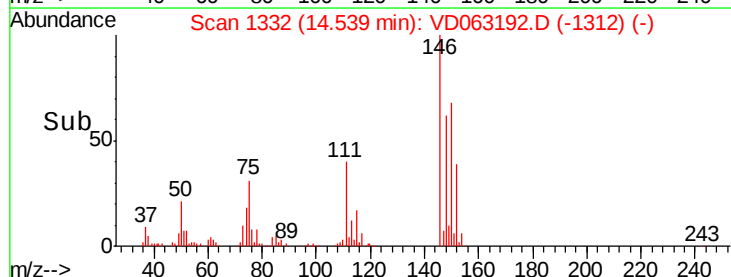
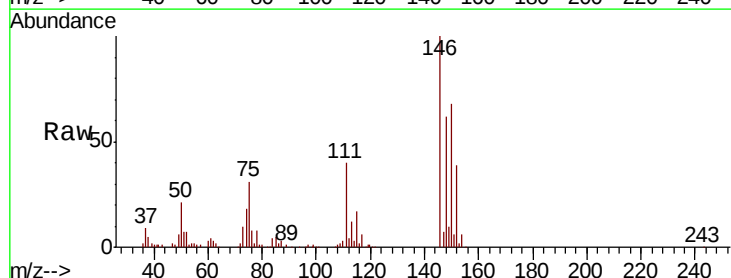
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC010

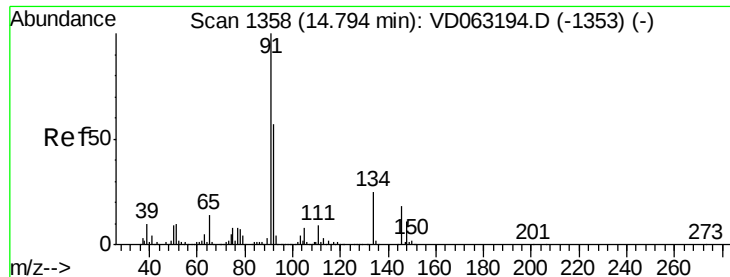
Tot Ion:146 Resp: 185183
 Ion Ratio Lower Upper
 146 100
 111 38.6 20.4 61.3
 148 64.9 31.8 95.4



#88
 1,4-Dichlorobenzene
 Concen: 10.593 ug/l
 RT: 14.54 min Scan# 1332
 Delta R.T. 0.00 min
 Lab File: VD063192.D
 Acq: 29 Jul 2019 11:42

Tgt Ion:146 Resp: 193709
 Ion Ratio Lower Upper
 146 100
 111 40.5 18.1 54.3
 148 61.8 33.4 100.1





#89

n-Butylbenzene

Concen: 10.707 ug/l

RT: 14.80 min Scan# 1359

Delta R.T. 0.01 min

Lab File: VD063192.D

Acq: 29 Jul 2019 11:42

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC010

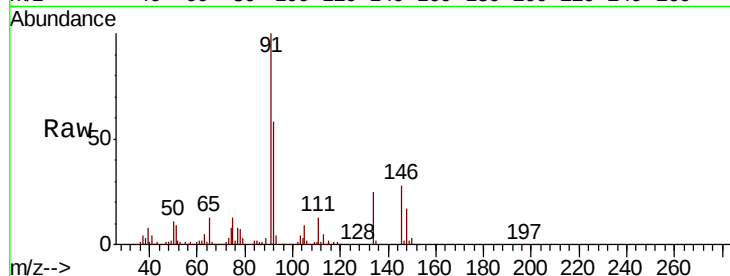
Tot Ion: 91 Resp: 328253

Ion Ratio Lower Upper

91 100

92 57.9 28.3 85.0

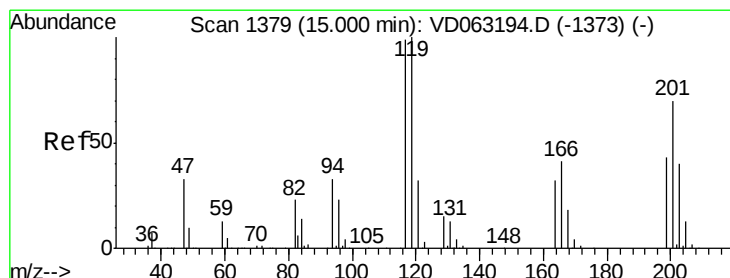
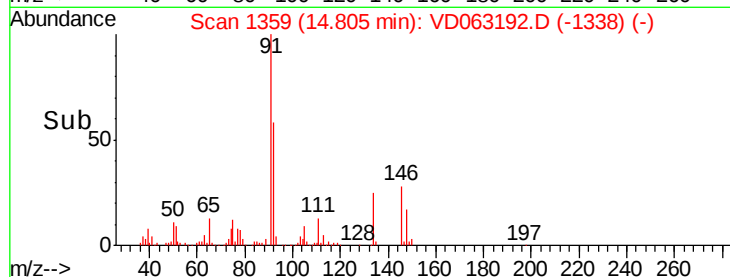
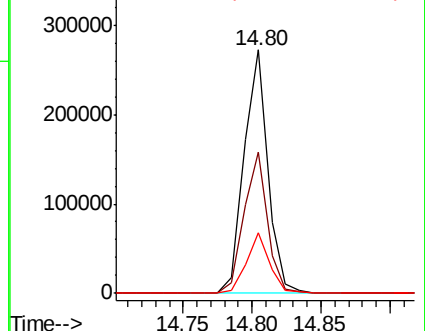
134 24.7 12.3 36.8



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 92.00 (91.70 to 92.70): VDC

Ion 134.10 (133.80 to 134.80): VDC



#90

Hexachloroethane

Concen: 9.936 ug/l

RT: 15.01 min Scan# 1380

Delta R.T. 0.01 min

Lab File: VD063192.D

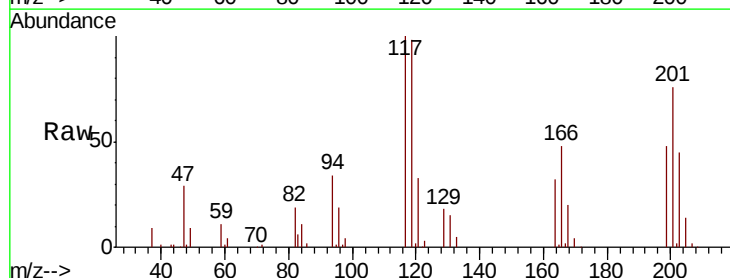
Acq: 29 Jul 2019 11:42

Tgt Ion: 117 Resp: 91891

Ion Ratio Lower Upper

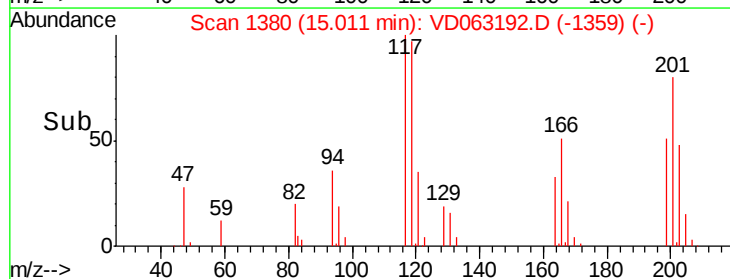
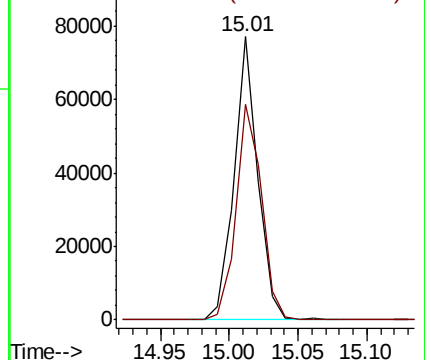
117 100

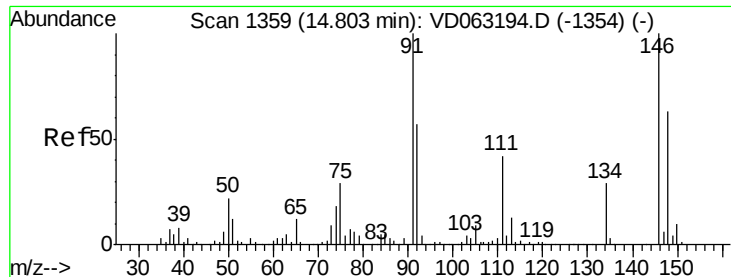
201 76.0 35.2 105.6



Abundance Ion 116.85 (116.55 to 117.55): VDC

Ion 200.75 (200.45 to 201.45): VDC

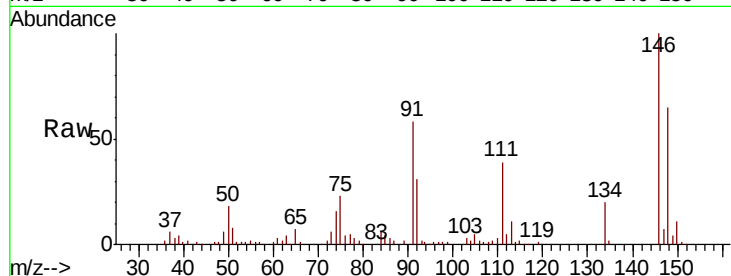




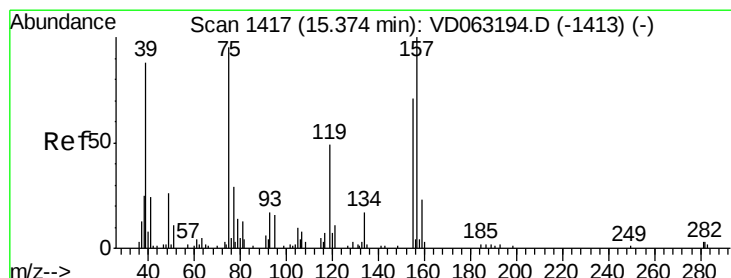
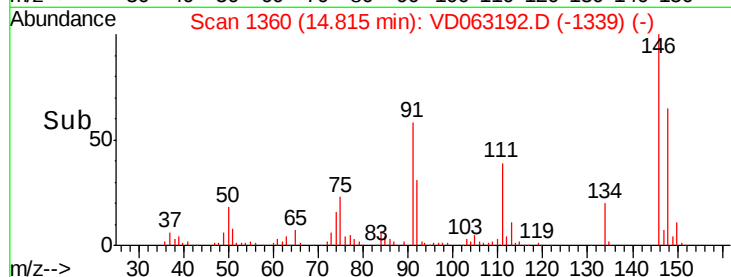
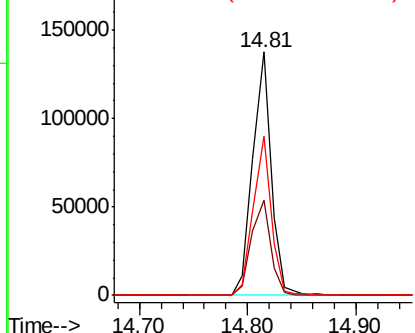
#91
 1,2-Dichlorobenzene
 Concen: 10.440 ug/l
 RT: 14.81 min Scan# 1360
 Delta R.T. 0.01 min
 Lab File: VD063192.D
 Acq: 29 Jul 2019 11:42

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC010

Tot Ion:146 Resp: 164492
 Ion Ratio Lower Upper
 146 100
 111 39.2 21.1 63.3
 148 65.4 31.6 94.8

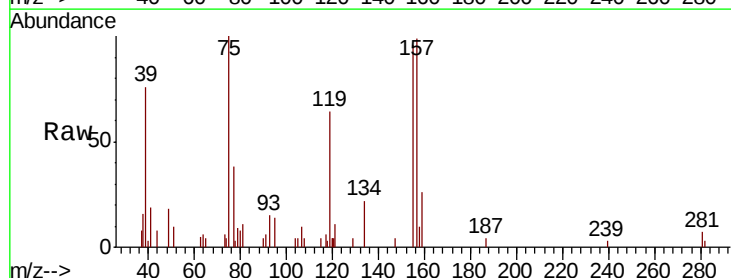


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

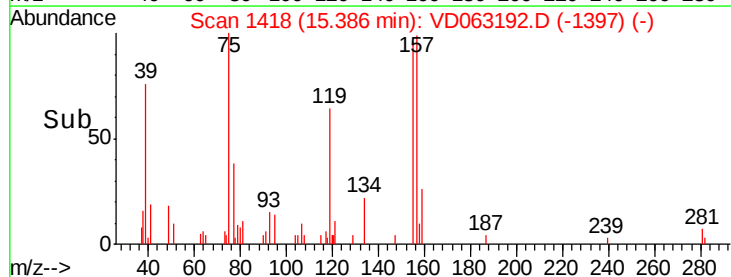
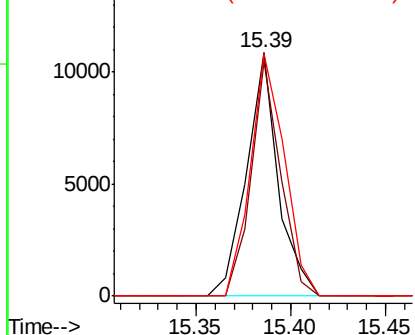


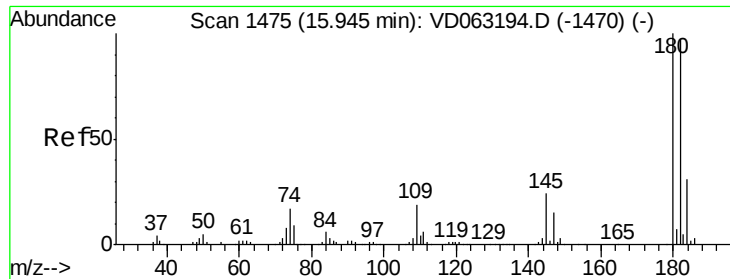
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 10.163 ug/l
 RT: 15.39 min Scan# 1418
 Delta R.T. 0.01 min
 Lab File: VD063192.D
 Acq: 29 Jul 2019 11:42

Tgt Ion: 75 Resp: 12604
 Ion Ratio Lower Upper
 75 100
 155 96.3 37.0 111.0
 157 99.4 52.4 157.2



Abundance Ion 75.00 (74.70 to 75.70): V
 Ion 154.90 (154.60 to 155.60): V
 Ion 156.85 (156.55 to 157.55): V

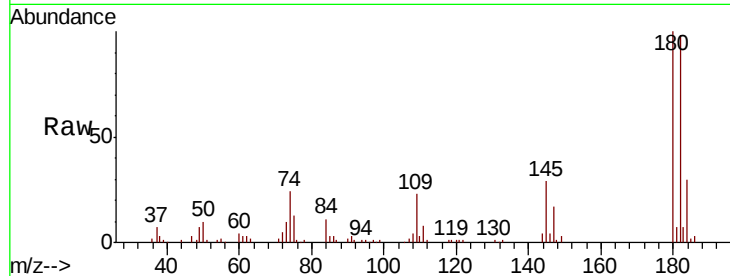




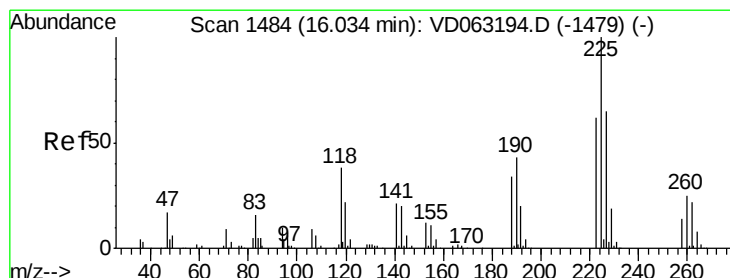
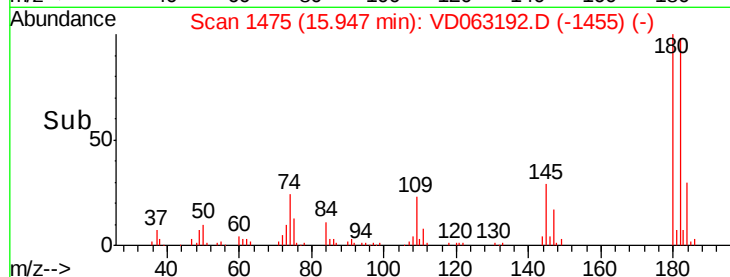
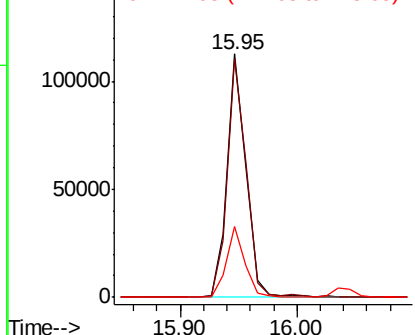
#93
 1,2,4-Trichlorobenzene
 Concen: 10.149 ug/l
 RT: 15.95 min Scan# 1475
 Delta R.T. 0.00 min
 Lab File: VD063192.D
 Acq: 29 Jul 2019 11:42

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC010

Tot Ion:180 Resp: 126854
 Ion Ratio Lower Upper
 180 100
 182 97.9 48.6 145.8
 145 29.0 12.2 36.6

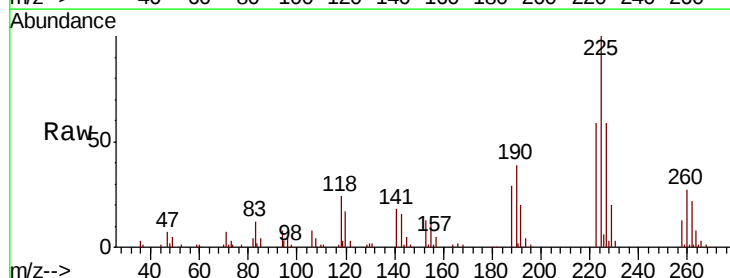


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

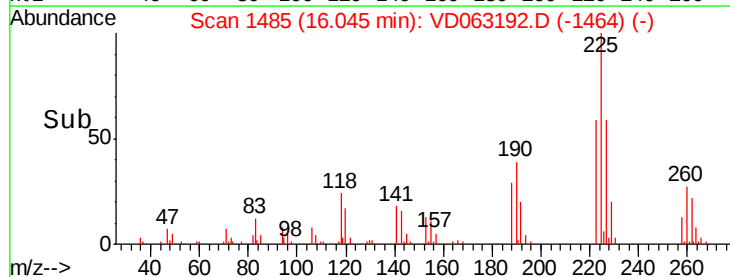
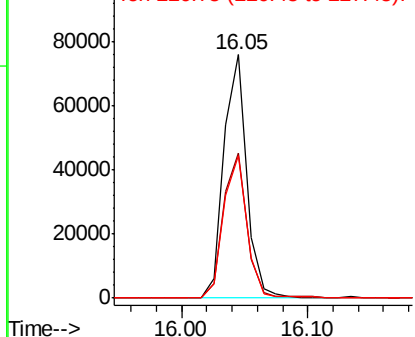


#94
 Hexachlorobutadiene
 Concen: 10.473 ug/l
 RT: 16.05 min Scan# 1485
 Delta R.T. 0.01 min
 Lab File: VD063192.D
 Acq: 29 Jul 2019 11:42

Tgt Ion:225 Resp: 94862
 Ion Ratio Lower Upper
 225 100
 223 59.4 30.9 92.5
 227 58.7 32.6 97.7



Abundance Ion 224.75 (224.45 to 225.45): V
 Ion 222.75 (222.45 to 223.45): V
 Ion 226.75 (226.45 to 227.45): V

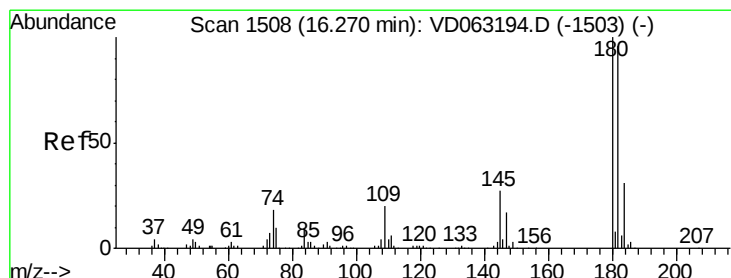
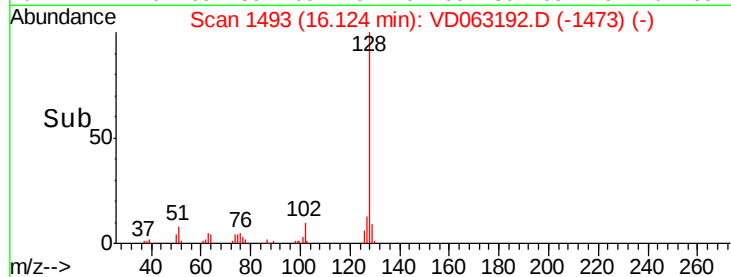
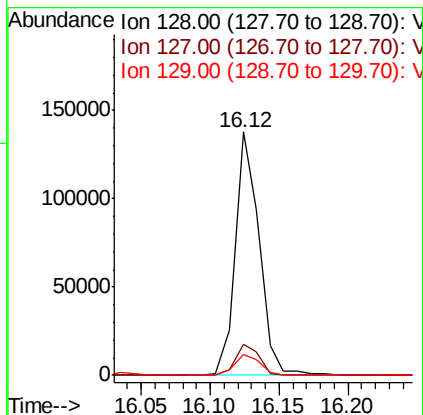
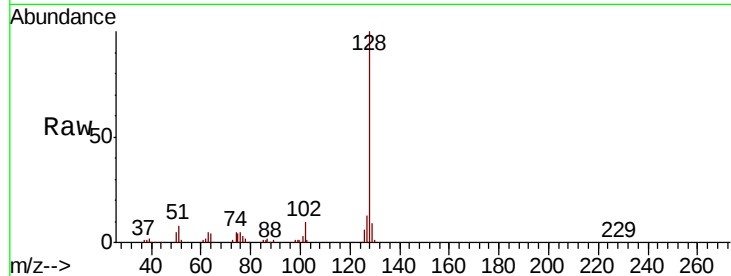




#95
Naphthalene
Concen: 9.373 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. 0.00 min
Lab File: VD063192.D
Acq: 29 Jul 2019 11:42

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

Tot Ion:128 Resp: 165590
Ion Ratio Lower Upper
128 100
127 13.0 10.2 15.4
129 8.8 7.8 11.8



#96
1,2,3-Trichlorobenzene
Concen: 9.419 ug/l
RT: 16.27 min Scan# 1508
Delta R.T. 0.00 min
Lab File: VD063192.D
Acq: 29 Jul 2019 11:42

Tgt Ion:180 Resp: 93006
Ion Ratio Lower Upper
180 100
182 92.6 48.3 144.9
145 28.4 13.6 40.7

