

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061319\
 Data File : VD062688.D
 Acq On : 13 Jun 2019 12:29
 Operator : VA/AP
 Sample : VD0613SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0613SBS01

Quant Time: Jun 14 06:44:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 00:02:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	686786	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.23	114	948005	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	780744	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.53	152	456014	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.47	65	499692	50.42	ug/l	0.02
Spiked Amount			Recovery	=	100.84%	
35) Dibromofluoromethane	6.94	113	515131	51.52	ug/l	0.02
Spiked Amount			Recovery	=	103.04%	
50) Toluene-d8	10.42	98	1041569	49.52	ug/l	0.00
Spiked Amount			Recovery	=	99.04%	
62) 4-Bromofluorobenzene	13.56	95	481161	49.04	ug/l	0.00
Spiked Amount			Recovery	=	98.08%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	180031	21.055	ug/l	98
3) Chloromethane	1.75	50	153546	22.595	ug/l	96
4) Vinyl Chloride	1.85	62	141551	20.200	ug/l	98
5) Bromomethane	2.15	94	56964	16.105	ug/l #	83
6) Chloroethane	2.26	64	66608	19.253	ug/l	91
7) Trichlorofluoromethane	2.53	101	328629	20.953	ug/l	99
8) Diethyl Ether	2.88	74	42163	19.765	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	3.15	101	176860	20.909	ug/l	94
10) Methyl Iodide	3.30	142	192789	18.451	ug/l	95
11) Tert butyl alcohol	4.10	59	35417	86.942	ug/l #	82
12) 1,1-Dichloroethene	3.13	96	120425	19.839	ug/l	96
13) Acrolein	3.04	56	12204	93.135	ug/l #	76
14) Allyl chloride	3.62	41	182689	19.573	ug/l	98
15) Acrylonitrile	4.21	53	94662	102.261	ug/l	89
16) Acetone	3.23	43	173449	95.579	ug/l	98
17) Carbon Disulfide	3.37	76	325153	18.177	ug/l	98
18) Methyl Acetate	3.65	43	68470	22.958	ug/l	95
19) Methyl tert-butyl Ether	4.25	73	287765	19.437	ug/l	97
20) Methylene Chloride	3.82	84	127987	18.387	ug/l	99
21) trans-1,2-Dichloroethene	4.22	96	127790	19.192	ug/l	95
22) Diisopropyl ether	5.14	45	391568	20.205	ug/l	93
23) Vinyl Acetate	5.07	43	1220680	101.528	ug/l	98
24) 1,1-Dichloroethane	5.00	63	242302	19.435	ug/l	98
25) 2-Butanone	6.08	43	168890	95.395	ug/l	97
26) 2,2-Dichloropropane	6.03	77	282137	19.635	ug/l	99
27) cis-1,2-Dichloroethene	6.05	96	146747	20.330	ug/l	90
28) Bromochloromethane	6.45	49	91240	19.144	ug/l	97
29) Tetrahydrofuran	6.47	42	81405	102.104	ug/l	97
30) Chloroform	6.67	83	319955	20.002	ug/l	97
31) Cyclohexane	6.96	56	160380	20.507	ug/l	91
32) 1,1,1-Trichloroethane	6.88	97	340134	21.369	ug/l	99
36) 1,1-Dichloropropene	7.15	75	203213	18.729	ug/l	96
37) Ethyl Acetate	6.19	43	85787	19.299	ug/l #	92
38) Carbon Tetrachloride	7.12	117	323979	18.892	ug/l	97

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Quant Time: Jun 14 06:44:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 00:02:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.88	83	165914	18.923	ug/l #	92
40) Benzene	7.47	78	395989	18.689	ug/l	98
41) Methacrylonitrile	6.47	41	109399	19.262	ug/l #	80
42) 1,2-Dichloroethane	7.59	62	243248	19.261	ug/l	96
43) Isopropyl Acetate	9.25	43	112618	19.672	ug/l #	96
44) Trichloroethene	8.55	130	167910	19.520	ug/l	98
45) 1,2-Dichloropropane	8.95	63	97187	19.096	ug/l	100
46) Dibromomethane	9.07	93	85817	18.996	ug/l	96
47) Bromodichloromethane	9.39	83	250070	20.348	ug/l	91
48) Methyl methacrylate	9.13	41	79743	19.281	ug/l #	92
49) 1,4-Dioxane	9.08	88	13692	399.975	ug/l #	85
51) 4-Methyl-2-Pentanone	10.31	43	393194	98.156	ug/l	96
52) Toluene	10.52	92	270908	19.021	ug/l	89
53) t-1,3-Dichloropropene	10.92	75	205869	20.432	ug/l	99
54) cis-1,3-Dichloropropene	10.05	75	195511	18.774	ug/l	97
55) 1,1,2-Trichloroethane	11.20	97	94433	19.333	ug/l	95
56) Ethyl methacrylate	11.05	69	103014	20.064	ug/l	95
57) 1,3-Dichloropropane	11.42	76	143901	19.008	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.87	63	290201	111.162	ug/l	91
59) 2-Hexanone	11.54	43	299302	100.445	ug/l	100
60) Dibromochloromethane	11.69	129	185511	19.240	ug/l	97
61) 1,2-Dibromoethane	11.81	107	119346	20.415	ug/l	90
64) Tetrachloroethene	11.27	164	145507	19.909	ug/l	91
65) Chlorobenzene	12.41	112	329719	19.092	ug/l	95
66) 1,1,1,2-Tetrachloroethane	12.52	131	170272	20.673	ug/l	97
67) Ethyl Benzene	12.53	91	624034	20.380	ug/l	99
68) m/p-Xylenes	12.68	106	435722	40.478	ug/l	86
69) o-Xylene	13.06	106	199710	20.201	ug/l	98
70) Styrene	13.08	104	337635	19.141	ug/l	97
71) Bromoform	13.24	173	119036	20.604	ug/l	97
73) Isopropylbenzene	13.41	105	680594	21.175	ug/l	100
74) N-amyl acetate	13.27	43	172275	19.832	ug/l	99
75) 1,1,2,2-Tetrachloroethane	13.71	83	109025	19.824	ug/l	96
76) 1,2,3-Trichloropropane	13.74	75	123592	19.989	ug/l	97
77) Bromobenzene	13.68	156	169860	18.490	ug/l	96
78) n-propylbenzene	13.78	91	752915	19.137	ug/l	99
79) 2-Chlorotoluene	13.85	91	437280	18.982	ug/l	97
80) 1,3,5-Trimethylbenzene	13.94	105	596677	21.005	ug/l	94
81) trans-1,4-Dichloro-2-buten	13.48	75	27994	17.972	ug/l #	88
82) 4-Chlorotoluene	13.96	91	564800	20.502	ug/l	100
83) tert-Butylbenzene	14.19	119	640171	20.432	ug/l	93
84) 1,2,4-Trimethylbenzene	14.24	105	583040	20.730	ug/l	97
85) sec-Butylbenzene	14.37	105	635196	19.334	ug/l	92
86) p-Isopropyltoluene	14.50	119	611643	19.121	ug/l	98
87) 1,3-Dichlorobenzene	14.46	146	319783	19.215	ug/l	96
88) 1,4-Dichlorobenzene	14.55	146	314409	19.990	ug/l	98
89) n-Butylbenzene	14.80	91	593218	20.614	ug/l	98
90) Hexachloroethane	15.01	117	172061	20.375	ug/l	71
91) 1,2-Dichlorobenzene	14.81	146	282225	20.400	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	15.38	75	21784	18.543	ug/l	97

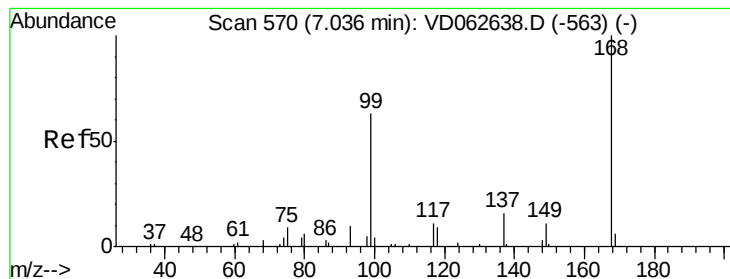
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD061319\
Data File : VD062688.D
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	211549	20.308	ug/l	97
94) Hexachlorobutadiene	16.04	225	152890	18.718	ug/l	98
95) Naphthalene	16.13	128	290093	19.772	ug/l	99
96) 1,2,3-Trichlorobenzene	16.28	180	160305	20.117	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.02 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

Instrument :

MSVOA_D

ClientSampleId :

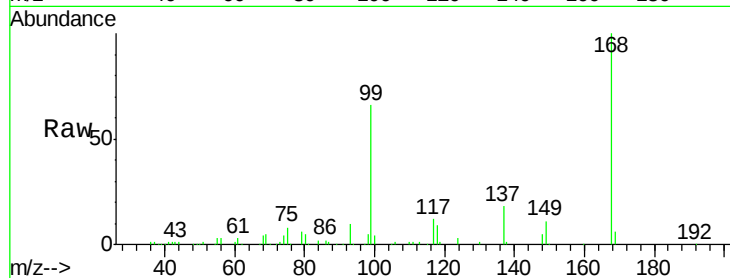
VD0613SBS01

Tot Ion:168 Resp: 686786

Ion Ratio Lower Upper

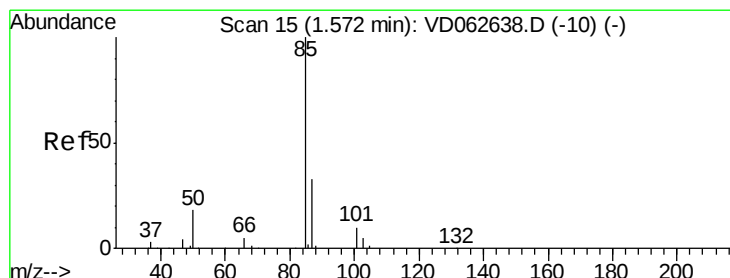
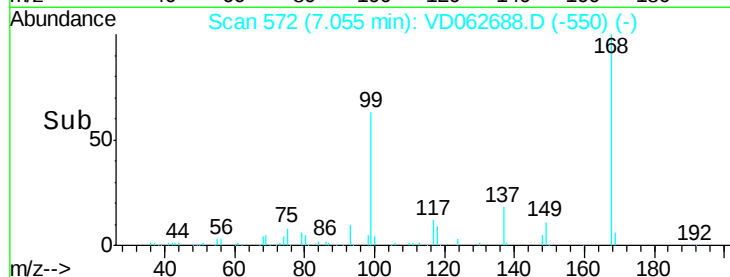
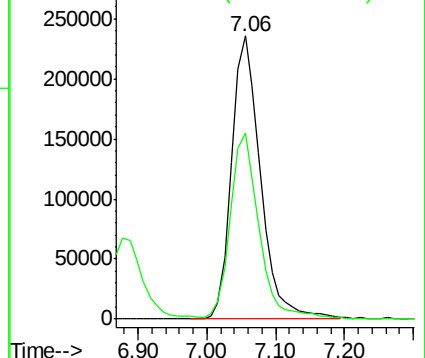
168 100

99 65.7 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 21.055 ug/l

RT: 1.57 min Scan# 15

Delta R.T. 0.00 min

Lab File: VD062688.D

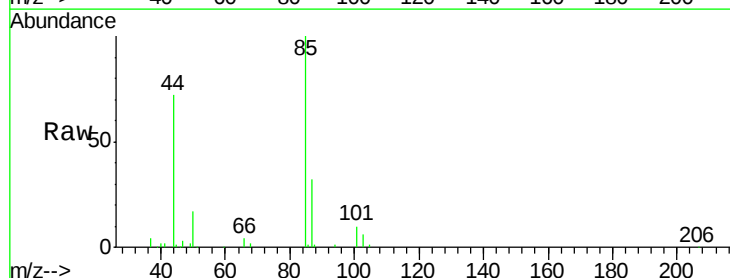
Acq: 13 Jun 2019 12:29

Tgt Ion: 85 Resp: 180031

Ion Ratio Lower Upper

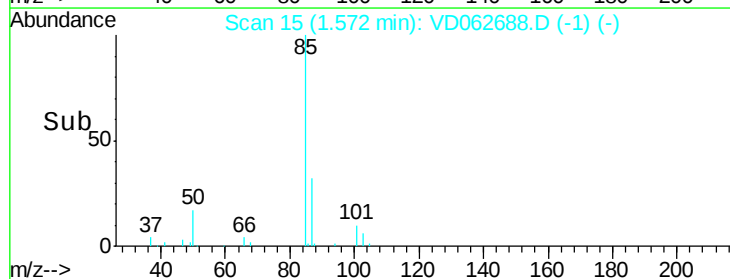
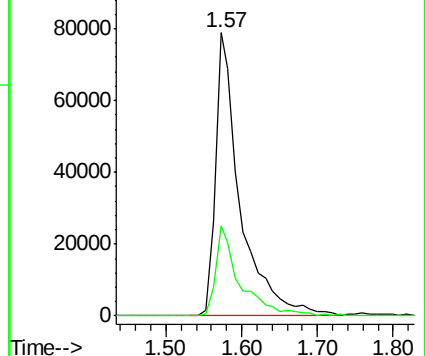
85 100

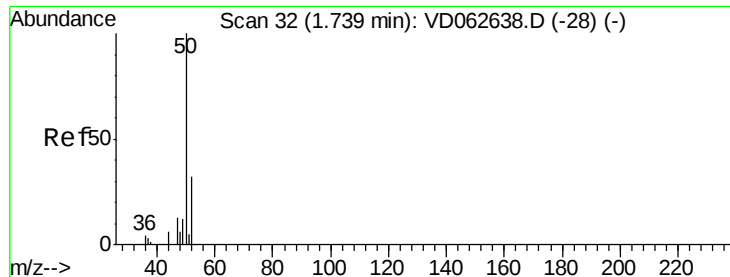
87 31.8 16.6 49.7



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 22.595 ug/l

RT: 1.75 min Scan# 33

Delta R.T. 0.01 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

Instrument :

MSVOA_D

ClientSampleId :

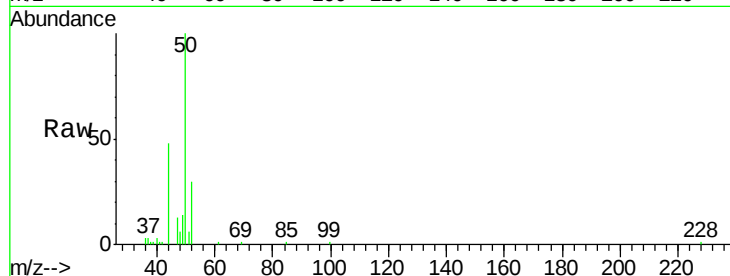
VD0613SBS01

Tot Ion: 50 Resp: 153546

Ion Ratio Lower Upper

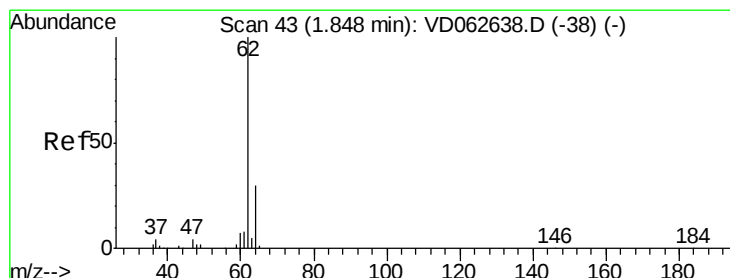
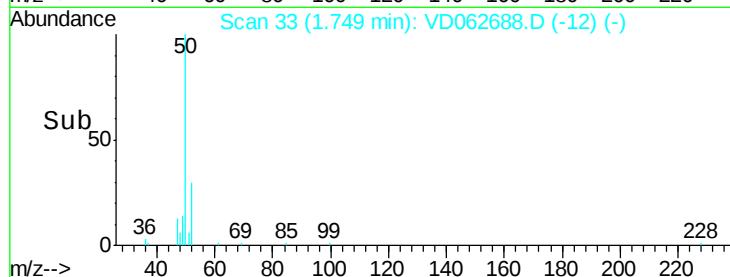
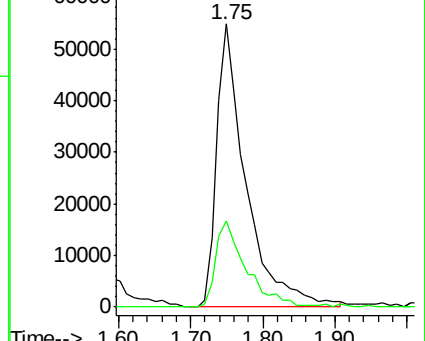
50 100

52 30.3 25.8 38.8



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 20.200 ug/l

RT: 1.85 min Scan# 43

Delta R.T. 0.00 min

Lab File: VD062688.D

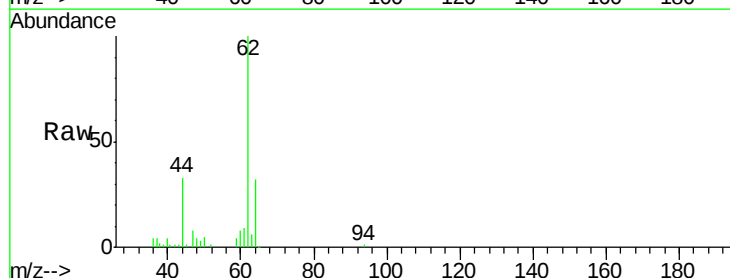
Acq: 13 Jun 2019 12:29

Tgt Ion: 62 Resp: 141551

Ion Ratio Lower Upper

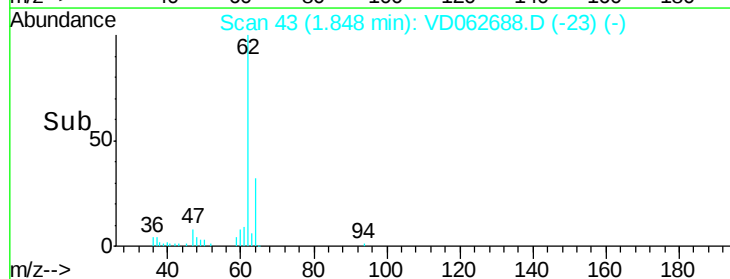
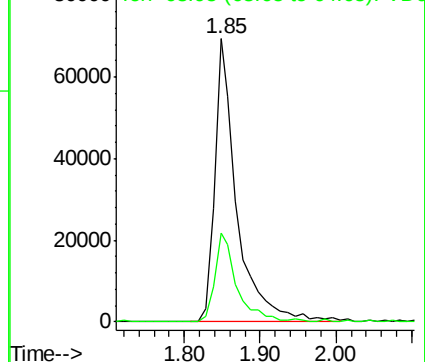
62 100

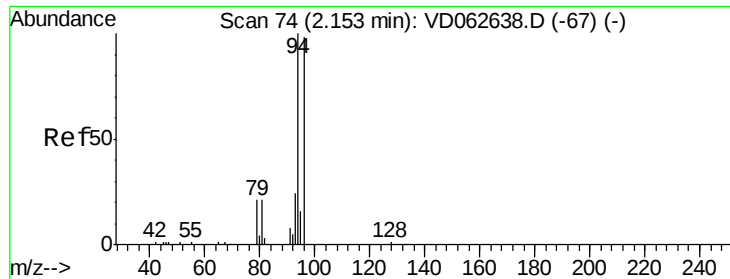
64 31.5 24.2 36.4



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 16.105 ug/l

RT: 2.15 min Scan# 74

Delta R.T. 0.00 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

Instrument :

MSVOA_D

ClientSampleId :

VD0613SBS01

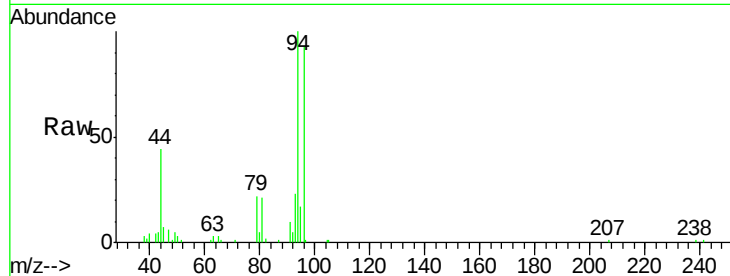
Tot Ion: 94 Resp: 56964

Ion Ratio Lower Upper

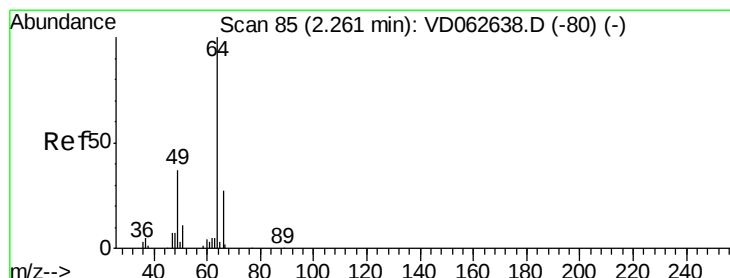
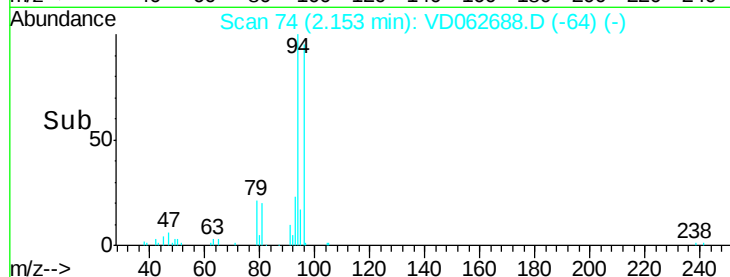
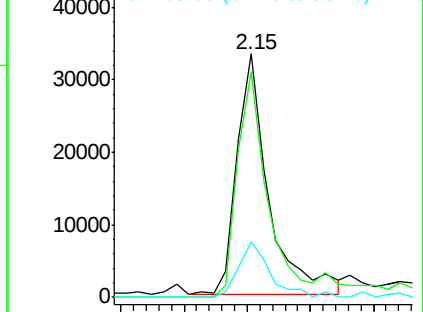
94 100

96 79.6 78.1 117.1

93 19.4 19.6 29.4#



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: 19.253 ug/l

RT: 2.26 min Scan# 85

Delta R.T. 0.00 min

Lab File: VD062688.D

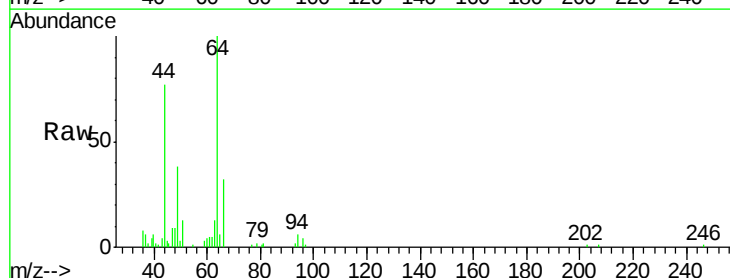
Acq: 13 Jun 2019 12:29

Tgt Ion: 64 Resp: 66608

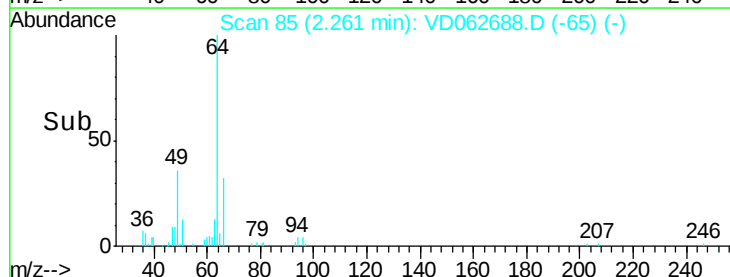
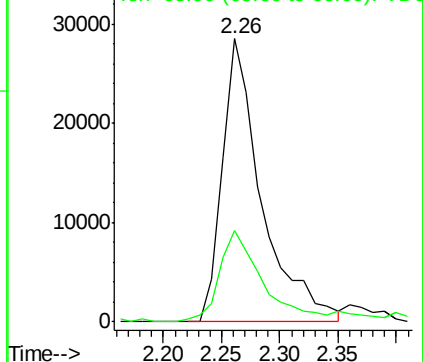
Ion Ratio Lower Upper

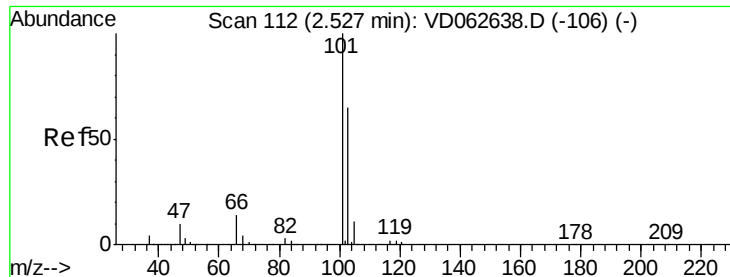
64 100

66 32.1 21.9 32.9



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



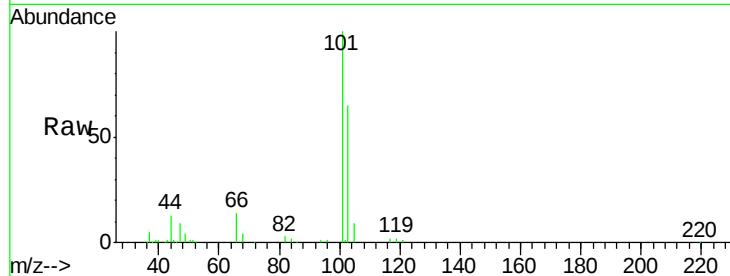


#7

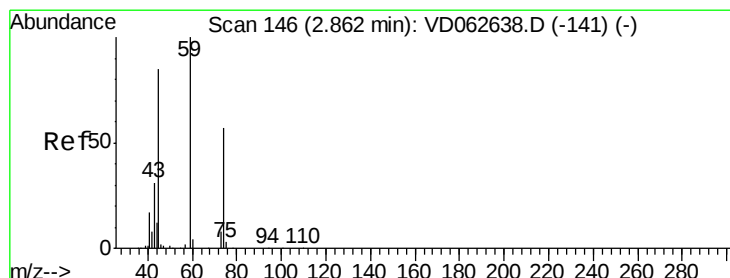
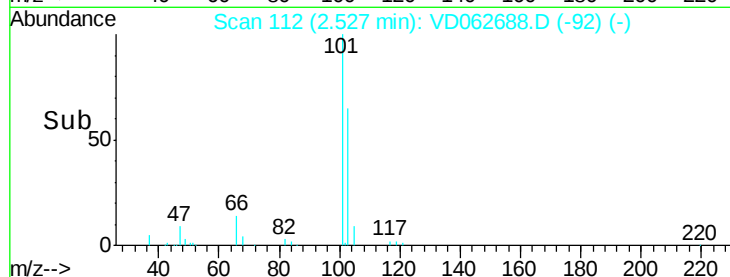
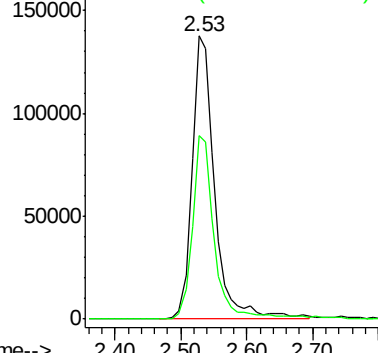
Trichlorofluoromethane
 Concen: 20.953 ug/l
 RT: 2.53 min Scan# 112
 Delta R.T. 0.00 min
 Lab File: VD062688.D
 Acq: 13 Jun 2019 12:29

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0613SBS01

Tot Ion:101 Resp: 328629
 Ion Ratio Lower Upper
 101 100
 103 64.8 52.2 78.2



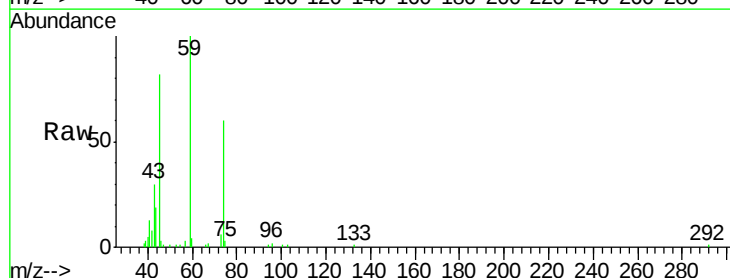
Abundance Ion 100.85 (100.55 to 101.55): V
 Ion 102.85 (102.55 to 103.55): V



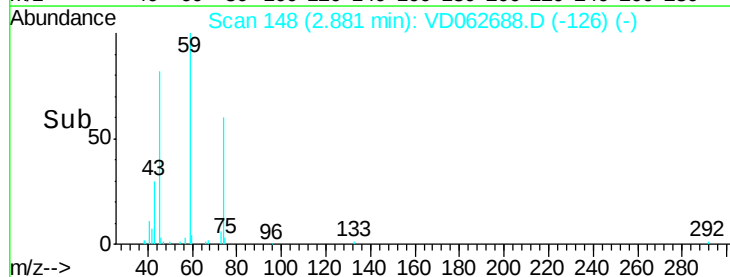
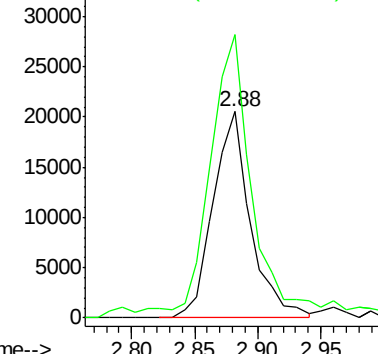
#8

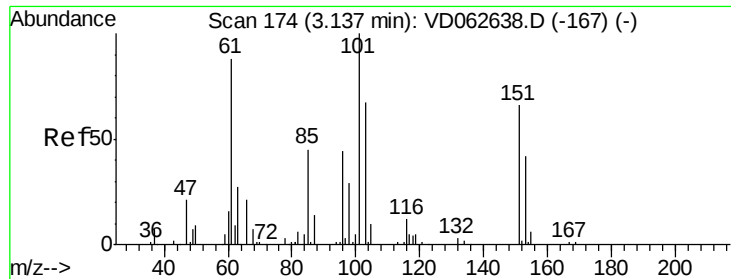
Diethyl Ether
 Concen: 19.765 ug/l
 RT: 2.88 min Scan# 148
 Delta R.T. 0.02 min
 Lab File: VD062688.D
 Acq: 13 Jun 2019 12:29

Tgt Ion: 74 Resp: 42163
 Ion Ratio Lower Upper
 74 100
 45 142.2 74.9 224.7



Abundance Ion 74.00 (73.70 to 74.70): VDC
 Ion 45.05 (44.75 to 45.75): VDC





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.909 ug/l

RT: 3.15 min Scan# 175

Delta R.T. 0.01 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

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VD0613SBS01

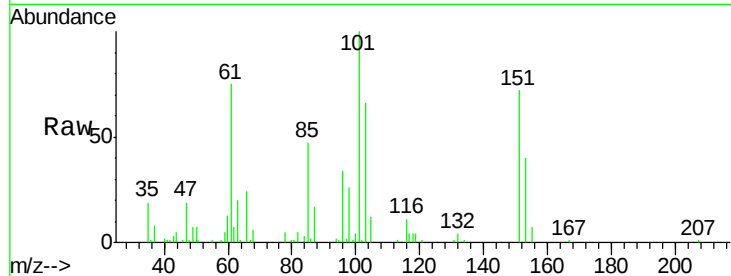
Tot Ion:101 Resp: 176860

Ion Ratio Lower Upper

101 100

85 47.2 36.0 54.0

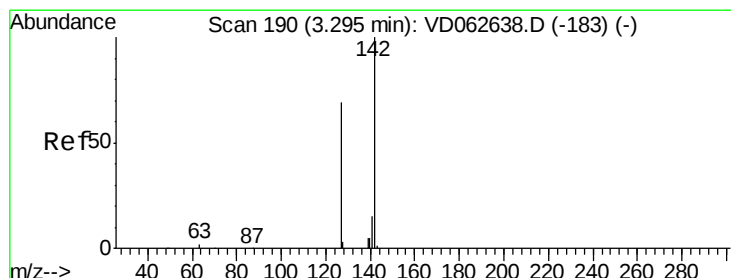
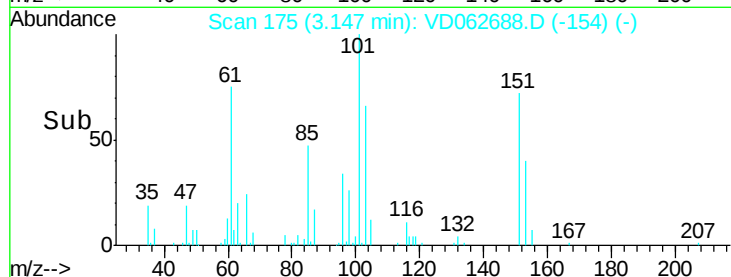
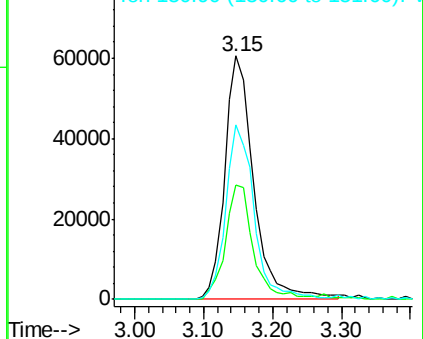
151 71.9 52.6 79.0



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: 18.451 ug/l

RT: 3.30 min Scan# 191

Delta R.T. 0.01 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

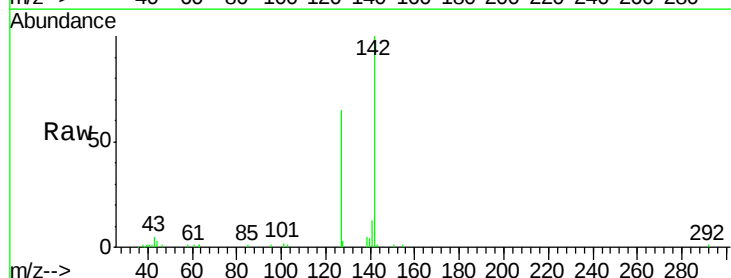
Tgt Ion:142 Resp: 192789

Ion Ratio Lower Upper

142 100

127 64.8 55.2 82.8

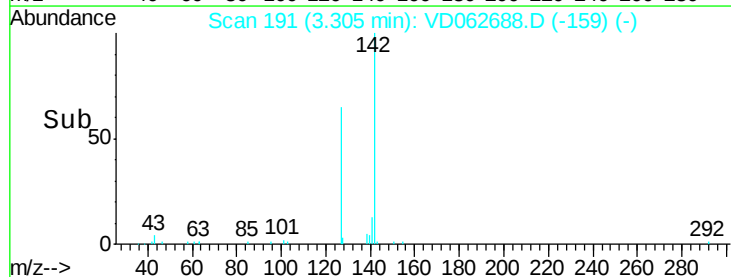
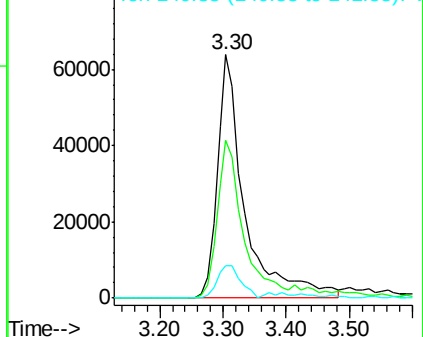
141 13.5 12.1 18.1

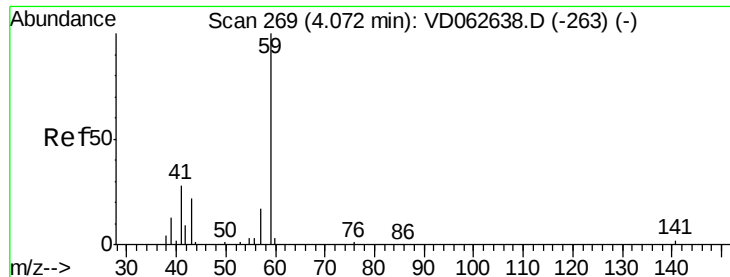


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

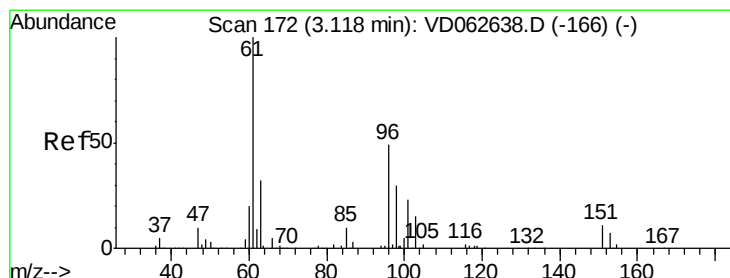
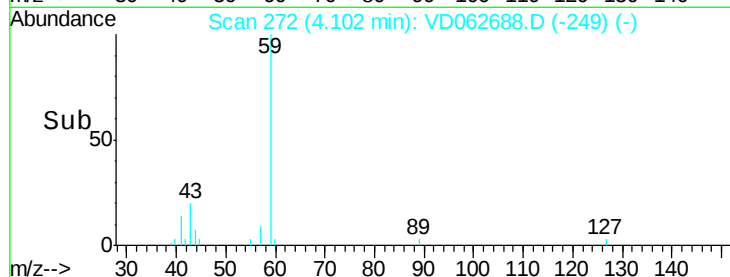
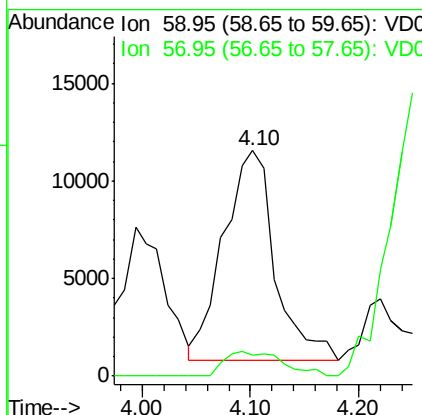
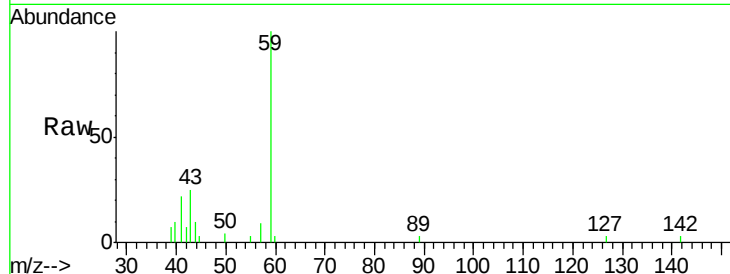




#11
Tert butyl alcohol
Concen: 86.942 ug/l
RT: 4.10 min Scan# 272
Delta R.T. 0.03 min
Lab File: VD062688.D
Acq: 13 Jun 2019 12:29

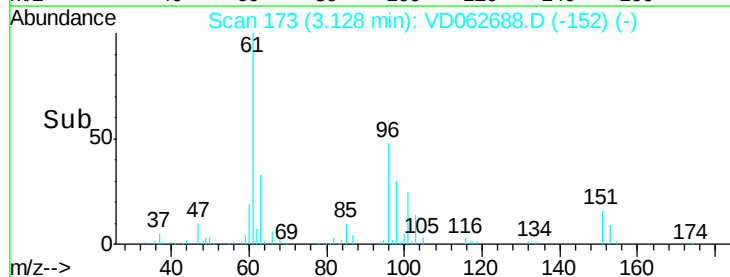
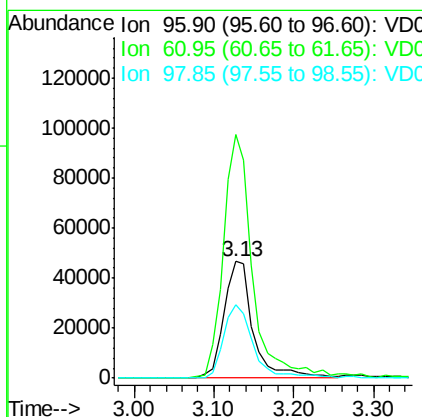
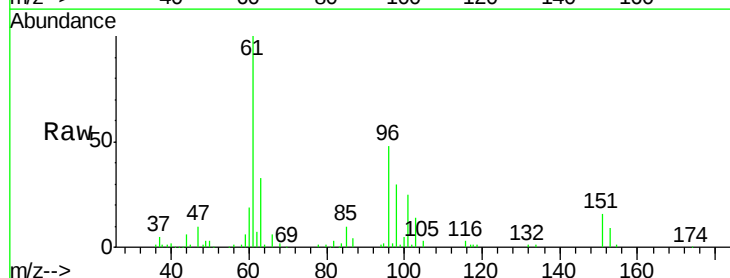
Instrument :
MSVOA_D
ClientSampleId :
VD0613SBS01

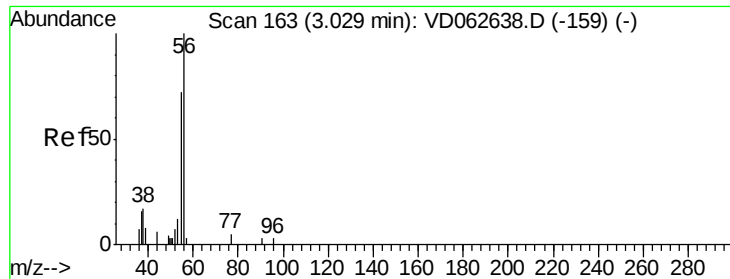
Tot Ion: 59 Resp: 35417
Ion Ratio Lower Upper
59 100
57 9.3 13.7 20.5#



#12
1,1-Dichloroethene
Concen: 19.839 ug/l
RT: 3.13 min Scan# 173
Delta R.T. 0.01 min
Lab File: VD062688.D
Acq: 13 Jun 2019 12:29

Tgt Ion: 96 Resp: 120425
Ion Ratio Lower Upper
96 100
61 209.2 161.8 242.8
98 63.0 48.2 72.4





#13

Acrolein

Concen: 93.135 ug/l

RT: 3.04 min Scan# 164

Delta R.T. 0.01 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

Instrument :

MSVOA_D

ClientSampleId :

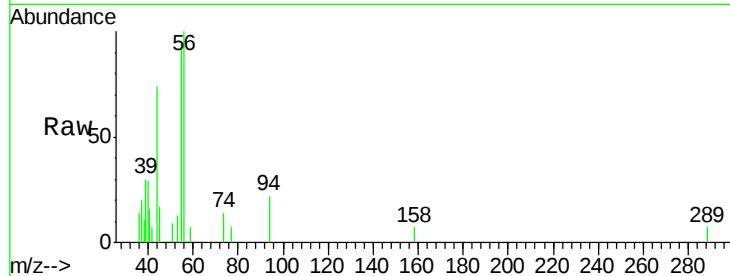
VD0613SBS01

Tot Ion: 56 Resp: 12204

Ion Ratio Lower Upper

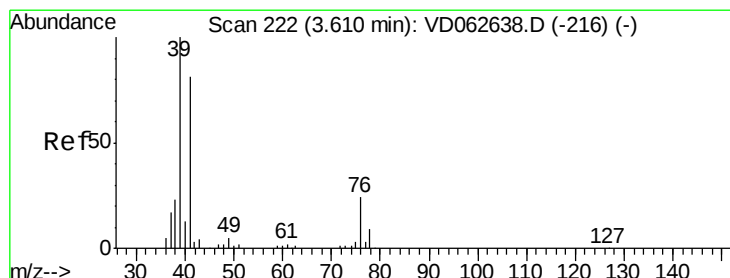
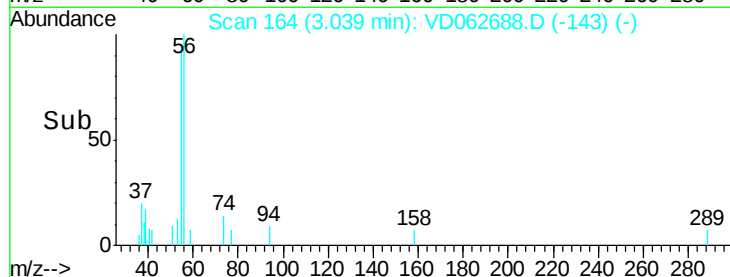
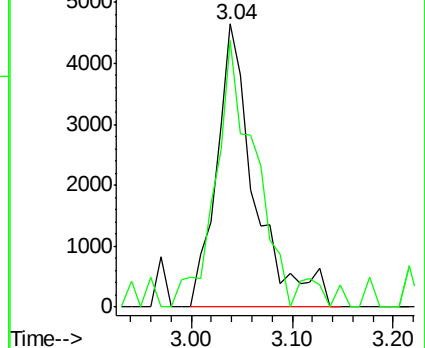
56 100

55 94.2 59.4 89.0#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 19.573 ug/l

RT: 3.62 min Scan# 223

Delta R.T. 0.01 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

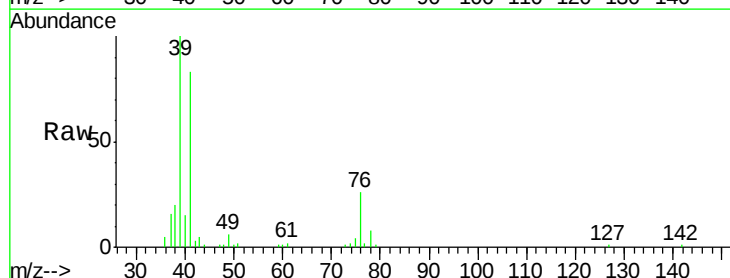
Tgt Ion: 41 Resp: 182689

Ion Ratio Lower Upper

41 100

39 120.9 99.1 148.7

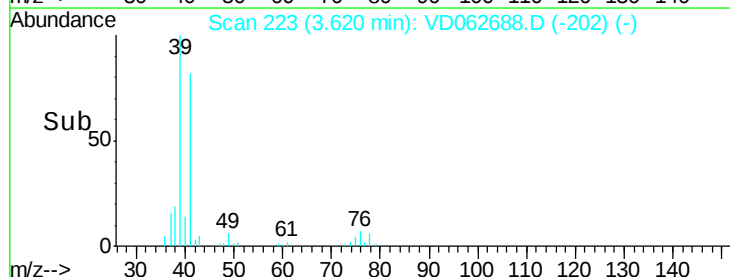
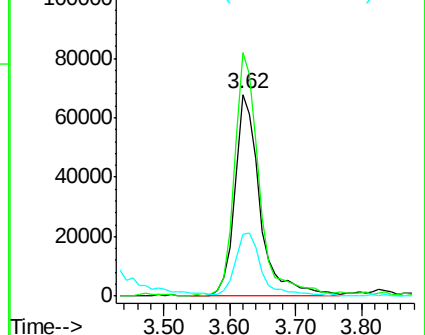
76 30.9 25.0 37.6

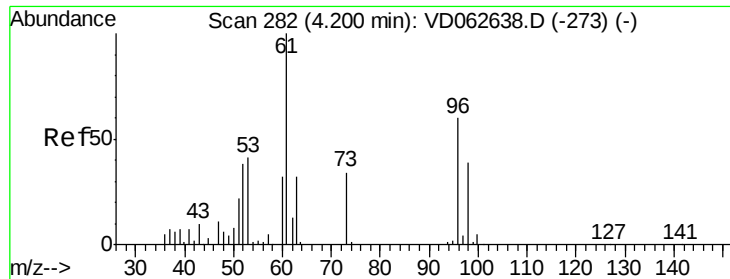


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 102.261 ug/l

RT: 4.21 min Scan# 283

Delta R.T. 0.01 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

Instrument :

MSVOA_D

ClientSampleId :

VD0613SBS01

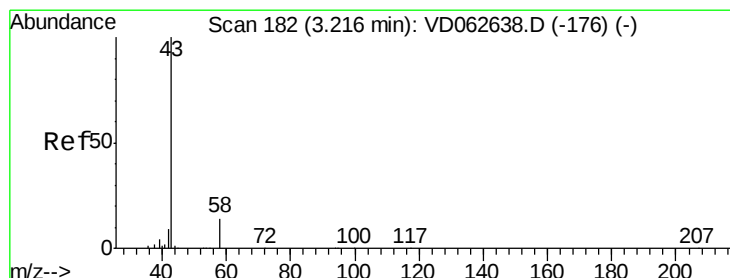
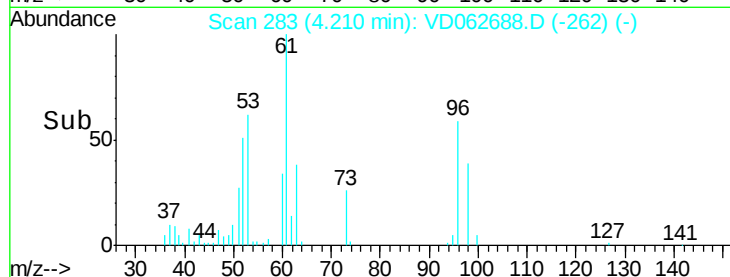
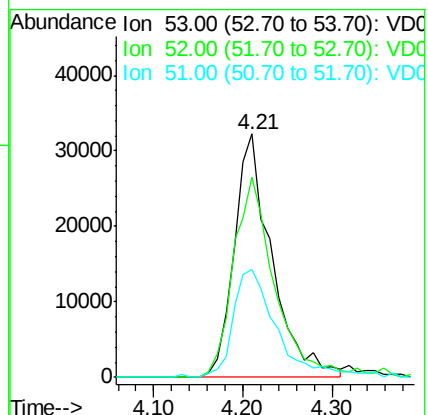
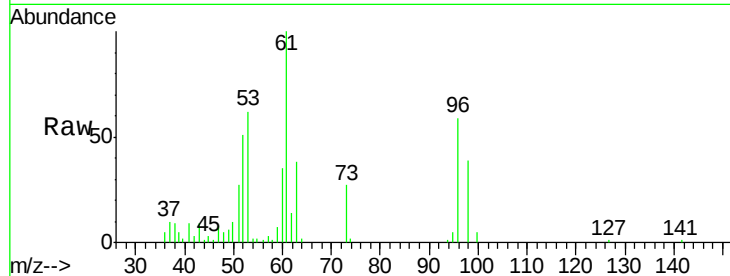
Tot Ion: 53 Resp: 94662

Ion Ratio Lower Upper

53 100

52 82.3 73.6 110.4

51 44.3 42.0 63.0



#16

Acetone

Concen: 95.579 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD062688.D

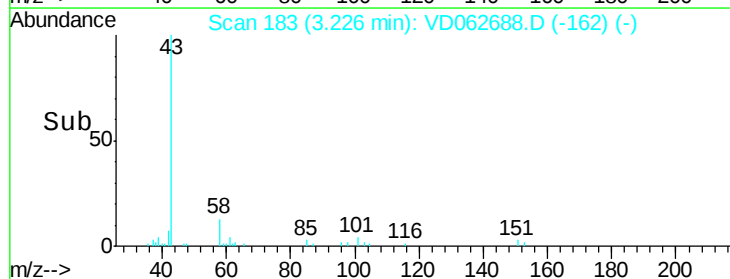
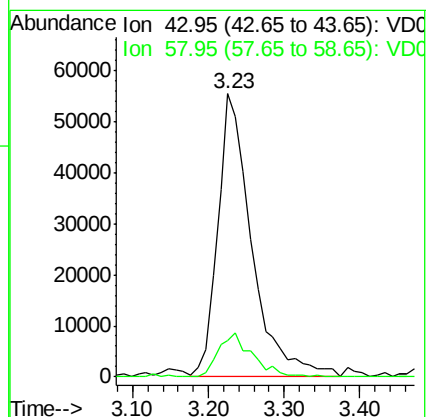
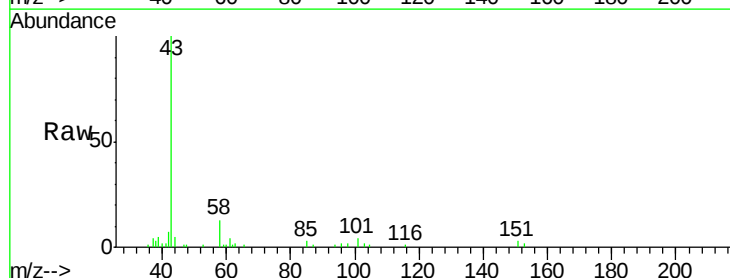
Acq: 13 Jun 2019 12:29

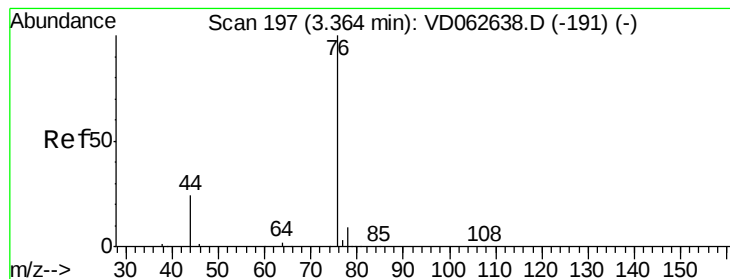
Tgt Ion: 43 Resp: 173449

Ion Ratio Lower Upper

43 100

58 12.7 10.8 16.2





#17

Carbon Disulfide

Concen: 18.177 ug/l

RT: 3.37 min Scan# 198

Delta R.T. 0.01 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

Instrument :

MSVOA_D

ClientSampleId :

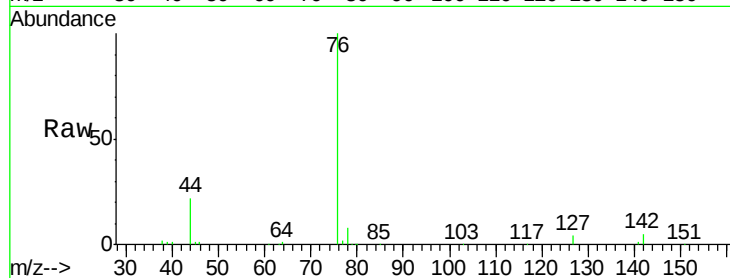
VD0613SBS01

Tot Ion: 76 Resp: 325153

Ion Ratio Lower Upper

76 100

78 8.0 7.0 10.4



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

3.37

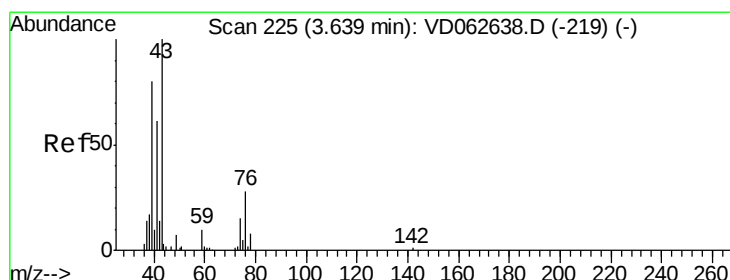
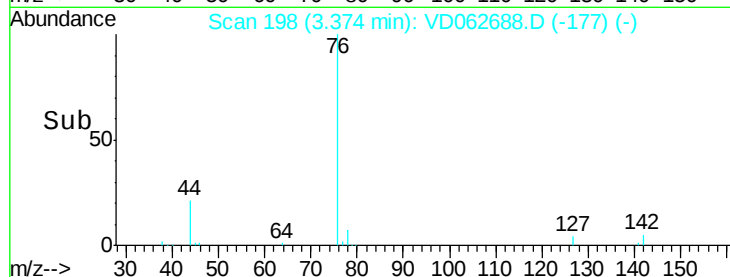
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 22.958 ug/l

RT: 3.65 min Scan# 226

Delta R.T. 0.01 min

Lab File: VD062688.D

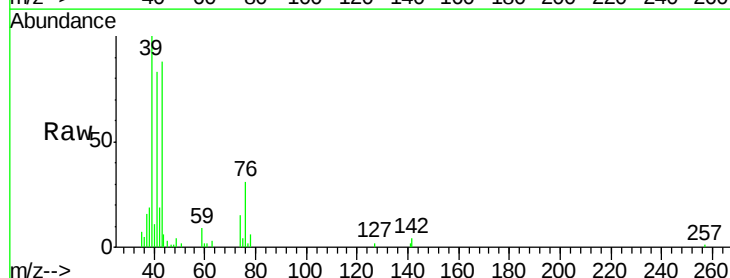
Acq: 13 Jun 2019 12:29

Tgt Ion: 43 Resp: 68470

Ion Ratio Lower Upper

43 100

74 17.1 12.1 18.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

3.65

25000

20000

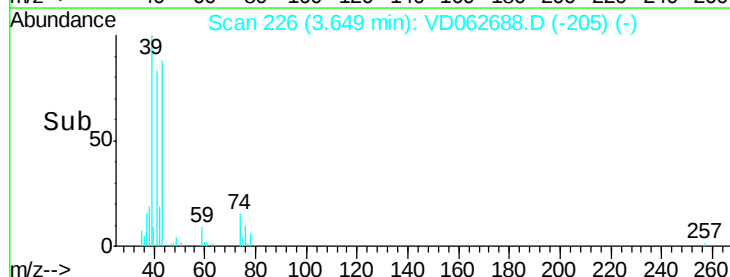
15000

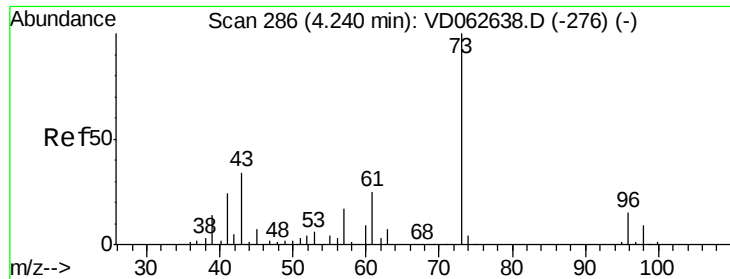
10000

5000

0

Time-->

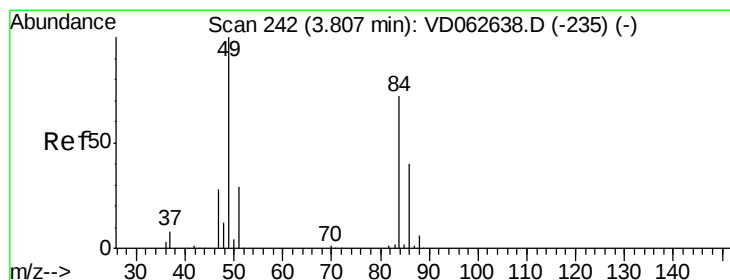
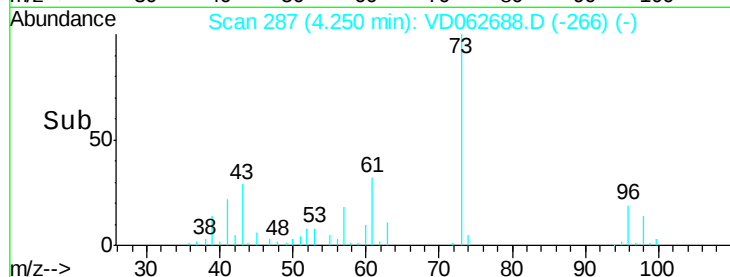
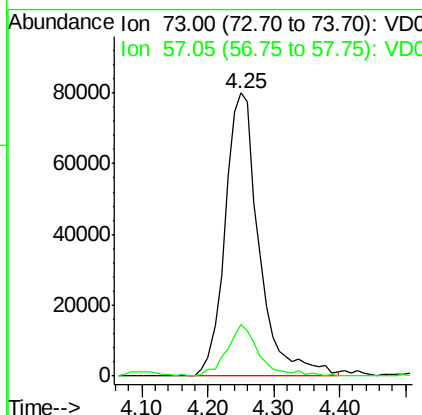
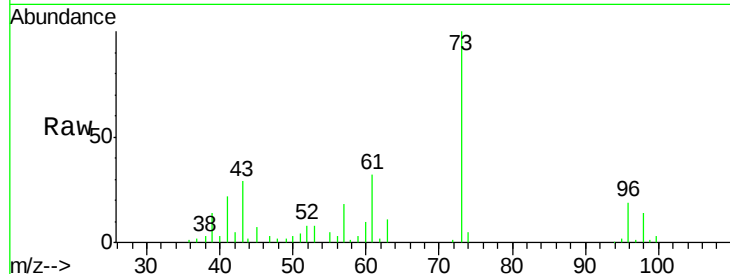




#19
Methyl tert-butyl Ether
Concen: 19.437 ug/l
RT: 4.25 min Scan# 287
Delta R.T. 0.01 min
Lab File: VD062688.D
Acq: 13 Jun 2019 12:29

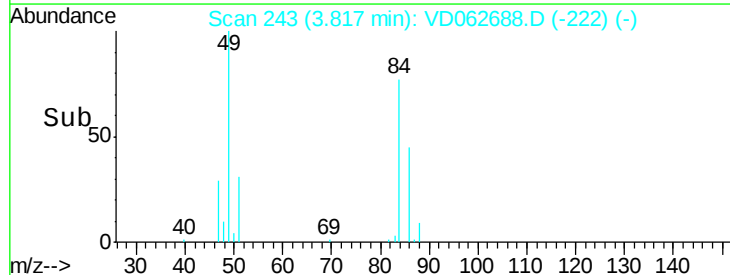
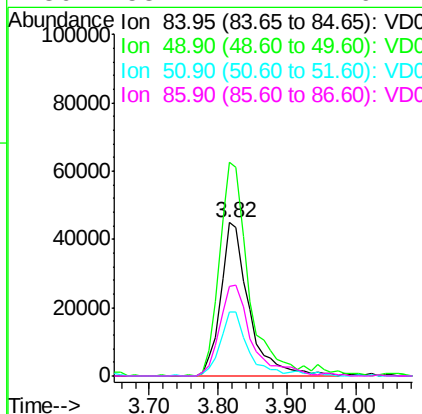
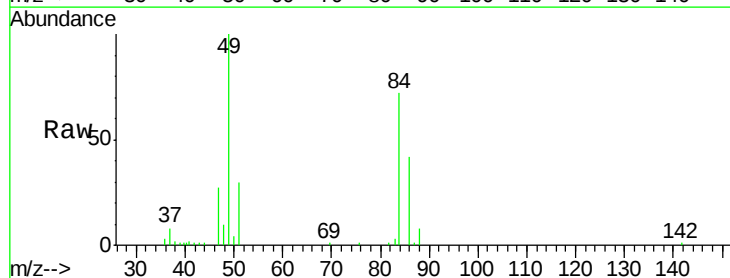
Instrument :
MSVOA_D
ClientSampleId :
VD0613SBS01

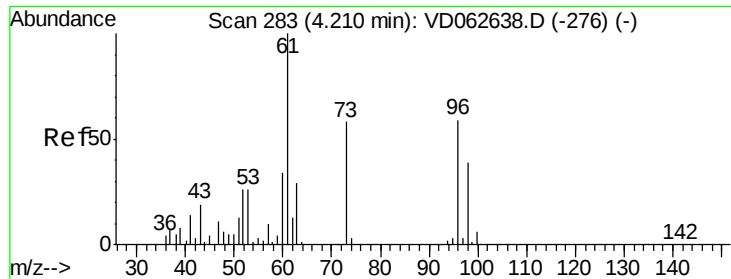
Tot Ion: 73 Resp: 287765
Ion Ratio Lower Upper
73 100
57 18.1 13.5 20.3



#20
Methylene Chloride
Concen: 18.387 ug/l
RT: 3.82 min Scan# 243
Delta R.T. 0.01 min
Lab File: VD062688.D
Acq: 13 Jun 2019 12:29

Tgt Ion: 84 Resp: 127987
Ion Ratio Lower Upper
84 100
49 139.3 111.2 166.8
51 41.4 31.9 47.9
86 58.4 44.7 67.1





#21

trans-1,2-Dichloroethene

Concen: 19.192 ug/l

RT: 4.22 min Scan# 284

Delta R.T. 0.01 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

Instrument :

MSVOA_D

ClientSampleId :

VD0613SBS01

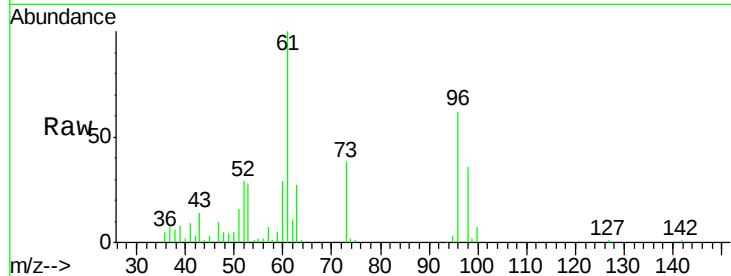
Tot Ion: 96 Resp: 127790

Ion Ratio Lower Upper

96 100

61 162.4 134.6 201.8

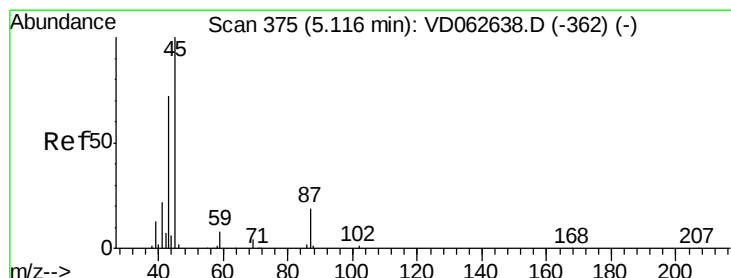
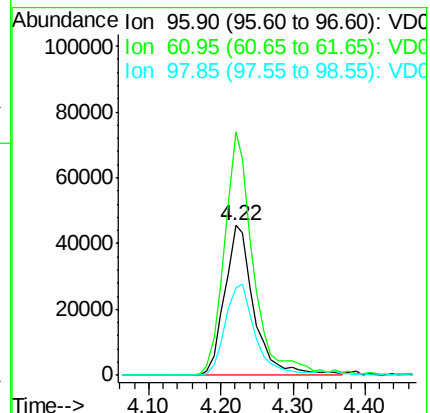
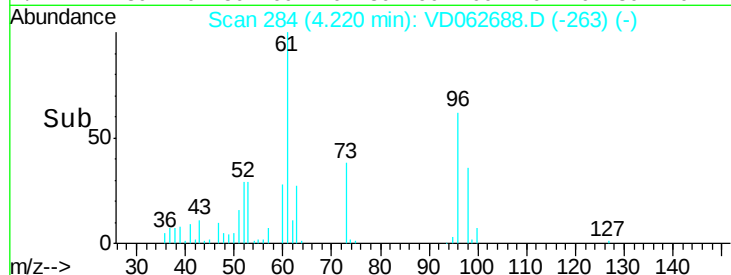
98 58.5 51.8 77.8



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: 20.205 ug/l

RT: 5.14 min Scan# 377

Delta R.T. 0.02 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

Tgt Ion: 45 Resp: 391568

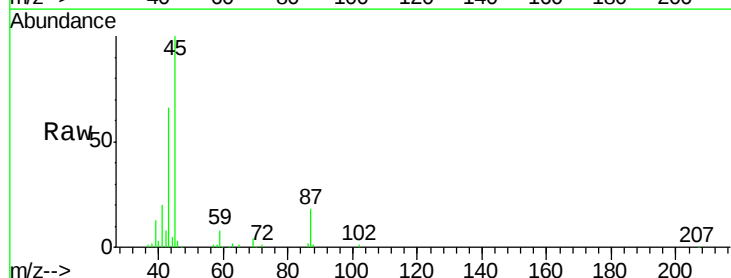
Ion Ratio Lower Upper

45 100

43 66.1 58.8 88.2

87 17.6 15.7 23.5

59 8.4 6.6 9.8

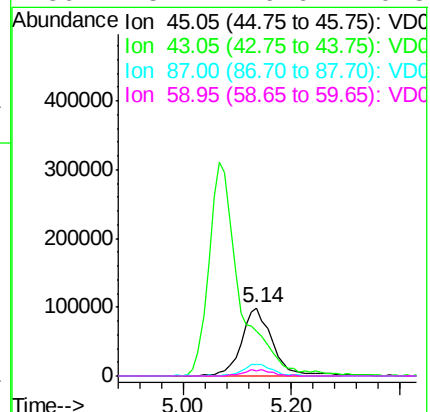
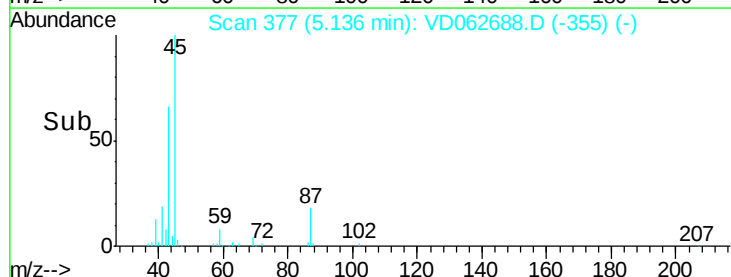


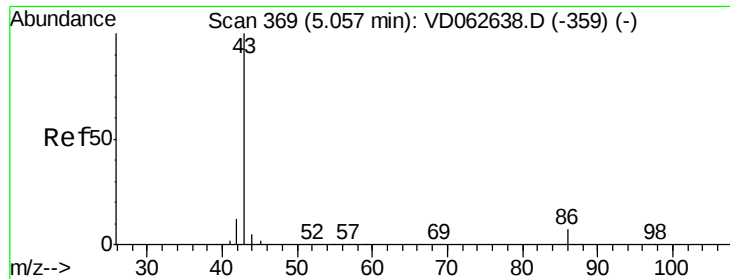
Abundance Ion 45.05 (44.75 to 45.75): VDC

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: 101.528 ug/l

RT: 5.07 min Scan# 370

Delta R.T. 0.01 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

Instrument :

MSVOA_D

ClientSampleId :

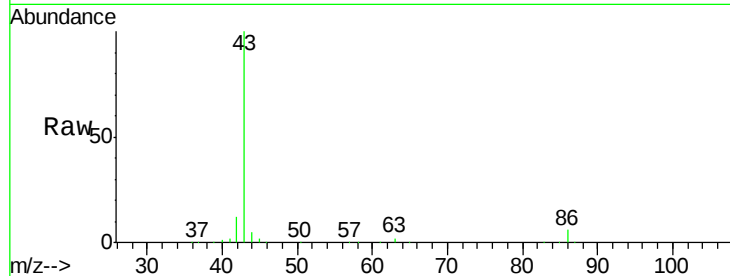
VD0613SBS01

Tot Ion: 43 Resp: 1220680

Ion Ratio Lower Upper

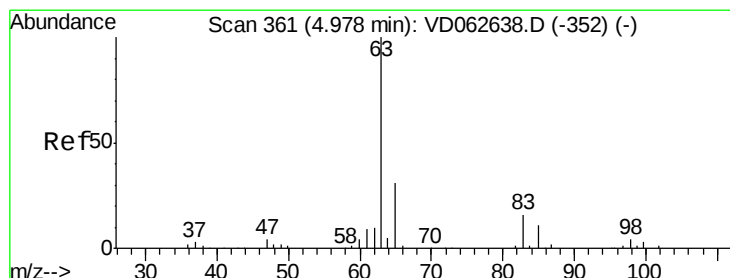
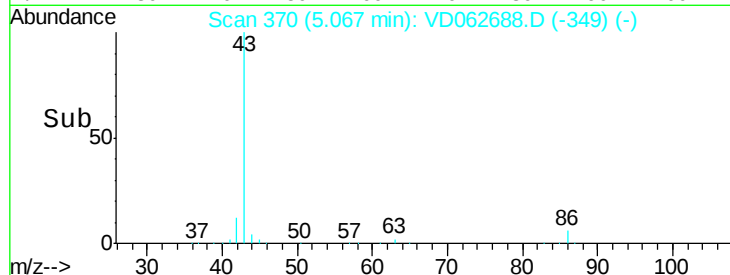
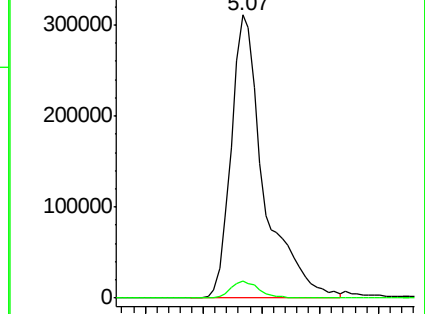
43 100

86 5.9 5.3 7.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 19.435 ug/l

RT: 5.00 min Scan# 363

Delta R.T. 0.02 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

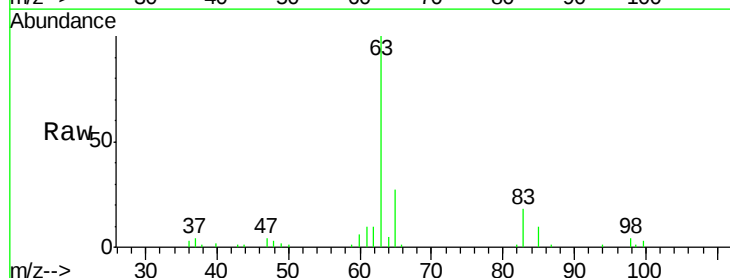
Tgt Ion: 63 Resp: 242302

Ion Ratio Lower Upper

63 100

98 4.6 1.8 5.4

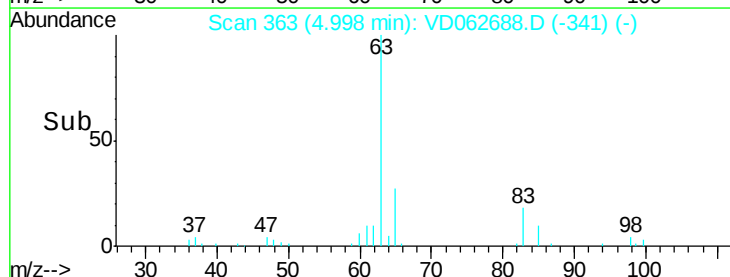
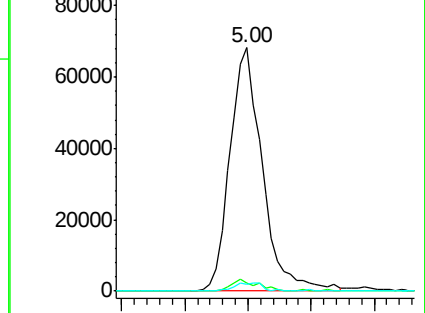
100 2.7 1.5 4.4



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





#25

2-Butanone

Concen: 95.395 ug/l

RT: 6.08 min Scan# 473

Delta R.T. 0.01 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

Instrument :

MSVOA_D

ClientSampleId :

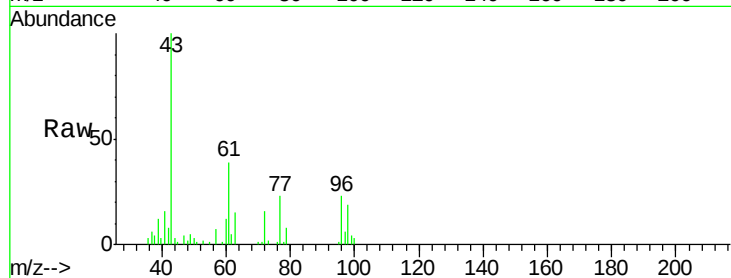
VD0613SBS01

Tot Ion: 43 Resp: 168890

Ion Ratio Lower Upper

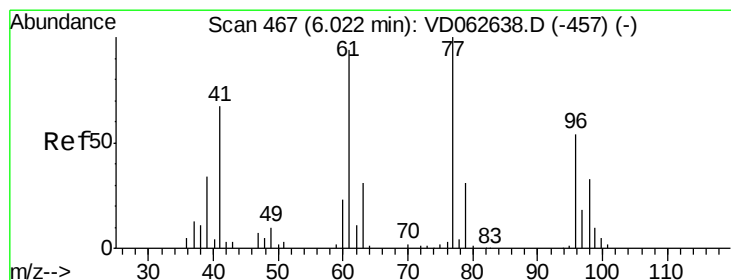
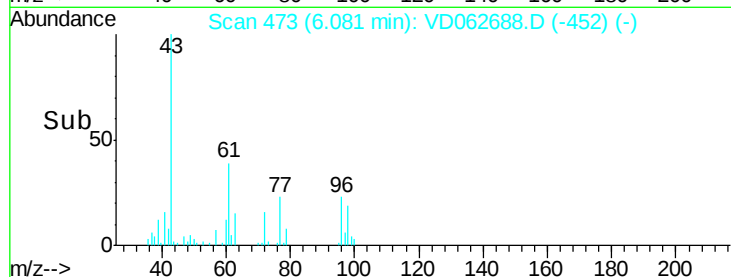
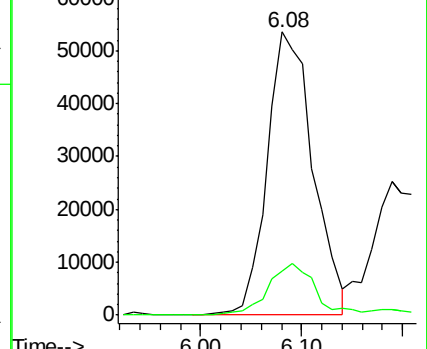
43 100

72 15.6 13.5 20.3



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 19.635 ug/l

RT: 6.03 min Scan# 468

Delta R.T. 0.01 min

Lab File: VD062688.D

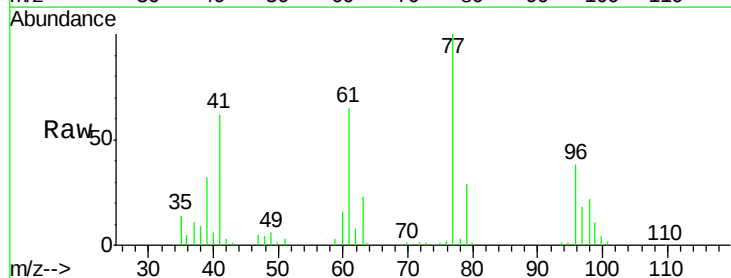
Acq: 13 Jun 2019 12:29

Tgt Ion: 77 Resp: 282137

Ion Ratio Lower Upper

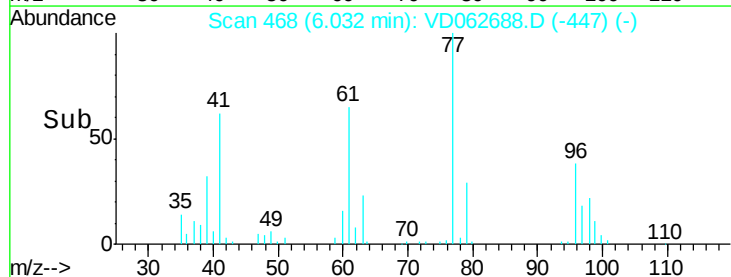
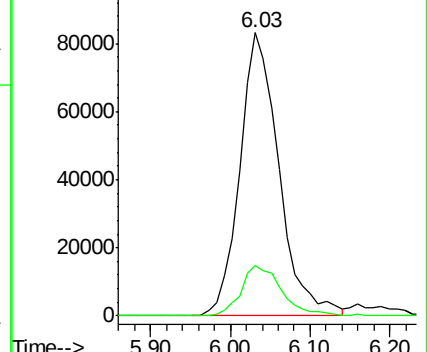
77 100

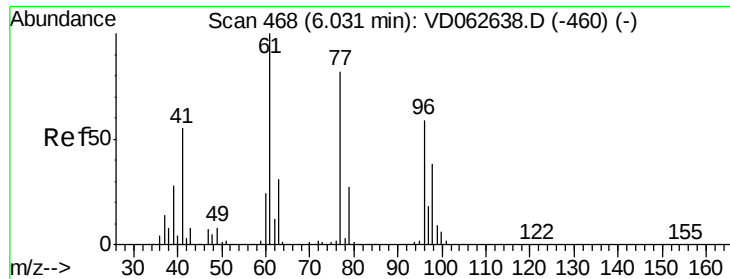
97 18.0 8.8 26.5



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



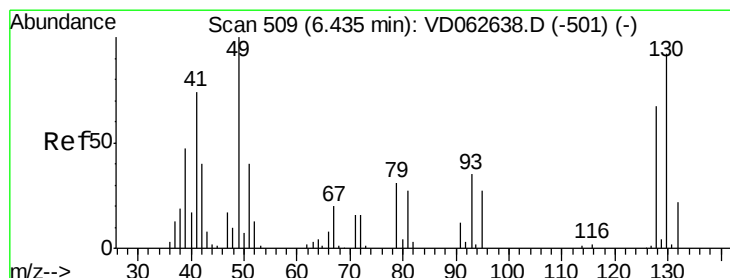
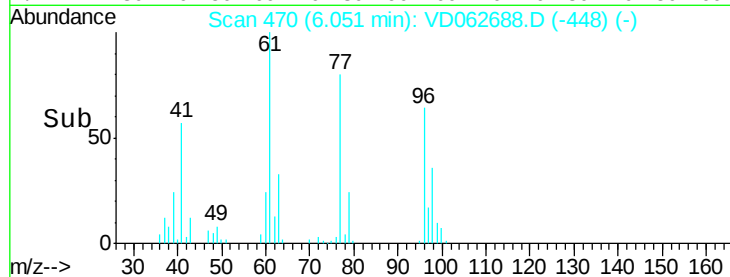
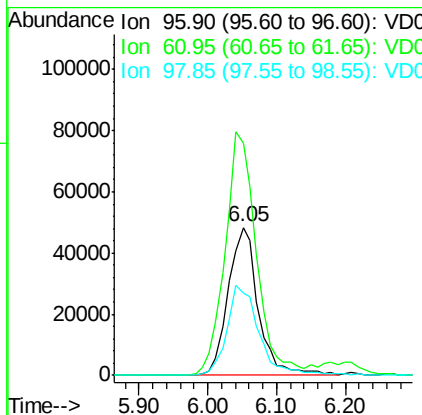
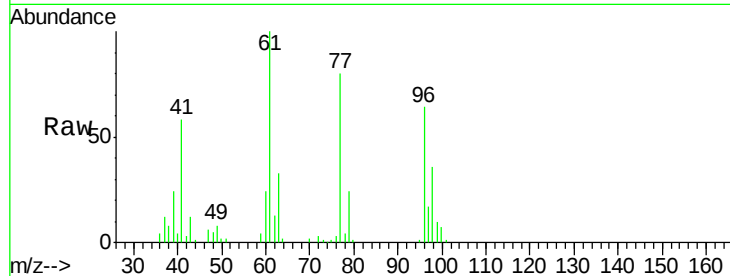


#27

cis-1,2-Dichloroethene
 Concen: 20.330 ug/l
 RT: 6.05 min Scan# 470
 Delta R.T. 0.02 min
 Lab File: VD062688.D
 Acq: 13 Jun 2019 12:29

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0613SBS01

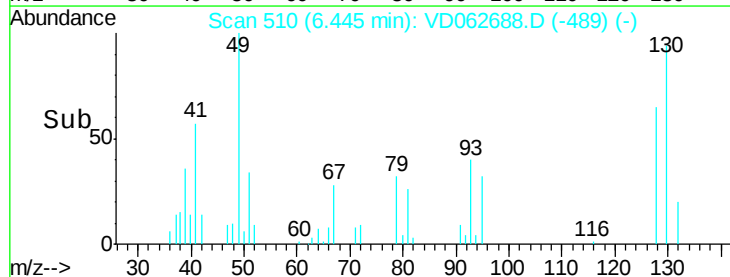
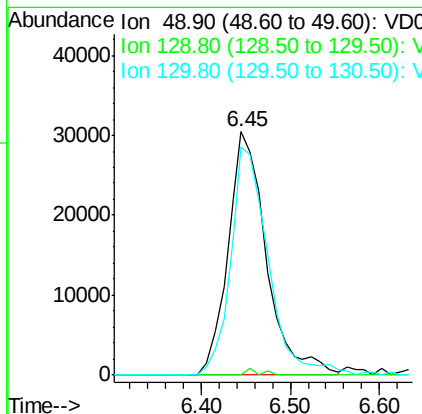
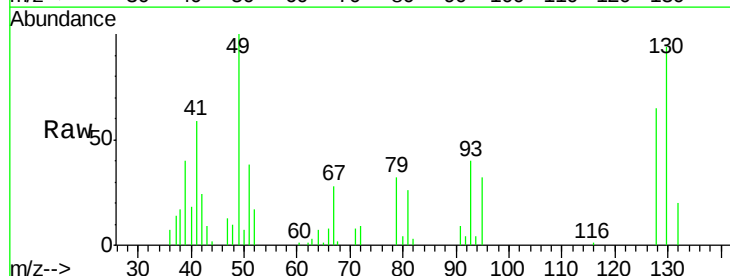
Tot Ion: 96 Resp: 146747
 Ion Ratio Lower Upper
 96 100
 61 156.8 0.0 340.0
 98 56.0 0.0 127.6



#28

Bromochloromethane
 Concen: 19.144 ug/l
 RT: 6.45 min Scan# 510
 Delta R.T. 0.01 min
 Lab File: VD062688.D
 Acq: 13 Jun 2019 12:29

Tgt Ion: 49 Resp: 91240
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 8.2
 130 93.9 73.4 110.0





#29

Tetrahydrofuran

Concen: 102.104 ug/l

RT: 6.47 min Scan# 513

Delta R.T. 0.02 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

Instrument :

MSVOA_D

ClientSampleId :

VD0613SBS01

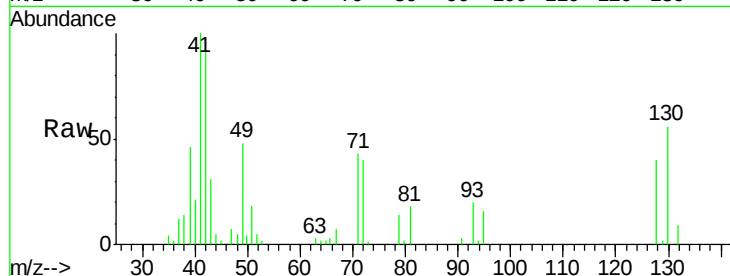
Tot Ion: 42 Resp: 81405

Ion Ratio Lower Upper

42 100

72 40.5 33.8 50.6

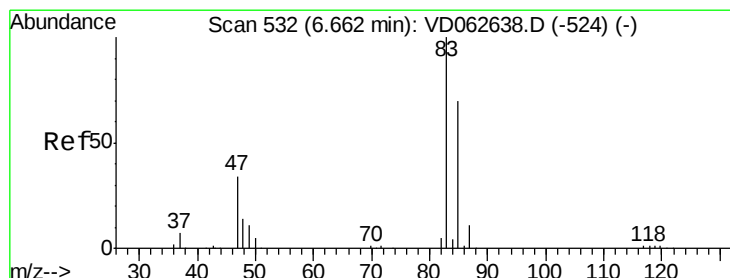
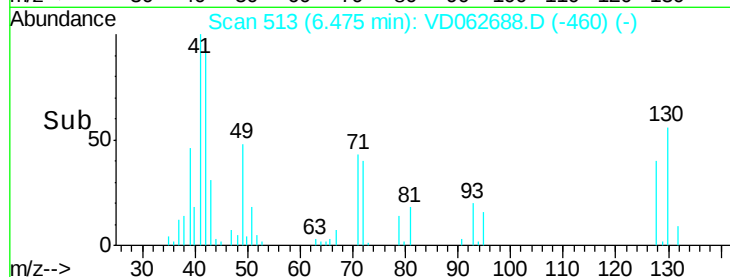
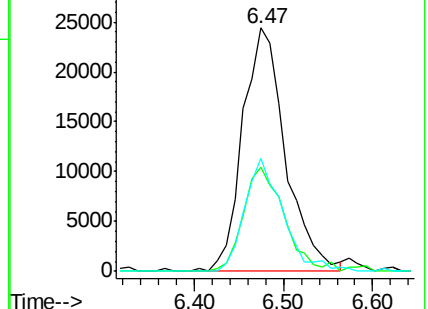
71 41.3 34.2 51.4



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: 20.002 ug/l

RT: 6.67 min Scan# 533

Delta R.T. 0.01 min

Lab File: VD062688.D

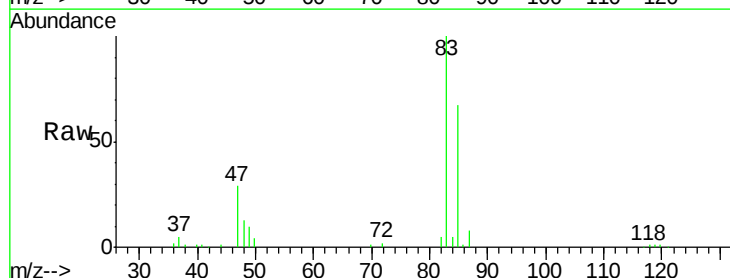
Acq: 13 Jun 2019 12:29

Tgt Ion: 83 Resp: 319955

Ion Ratio Lower Upper

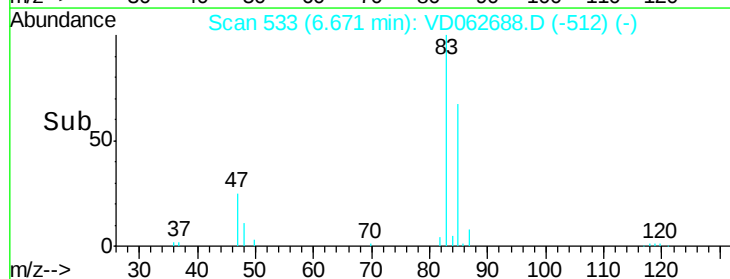
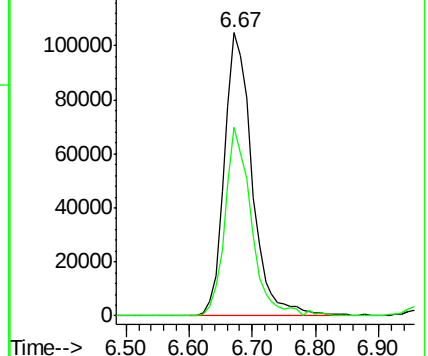
83 100

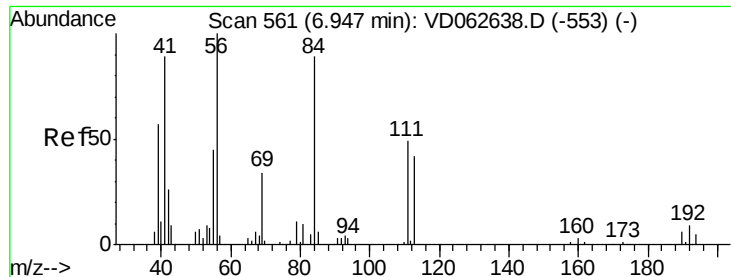
85 66.9 55.8 83.6



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

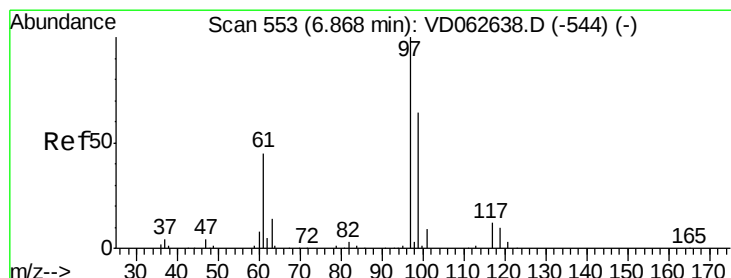
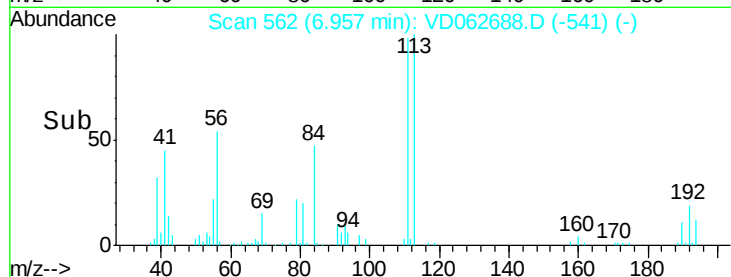
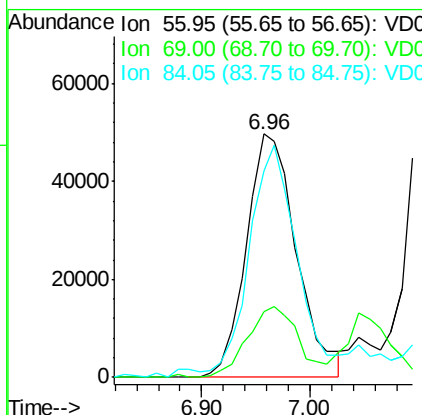
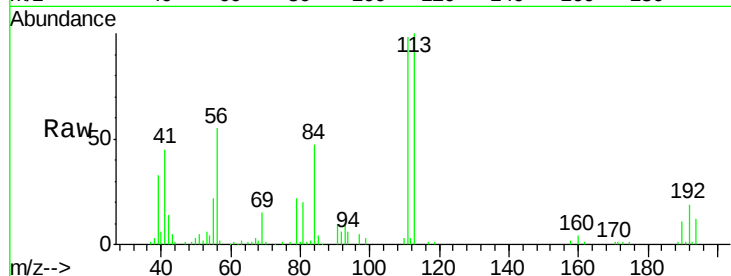




#31
Cyclohexane
Concen: 20.507 ug/l
RT: 6.96 min Scan# 562
Delta R.T. 0.01 min
Lab File: VD062688.D
Acq: 13 Jun 2019 12:29

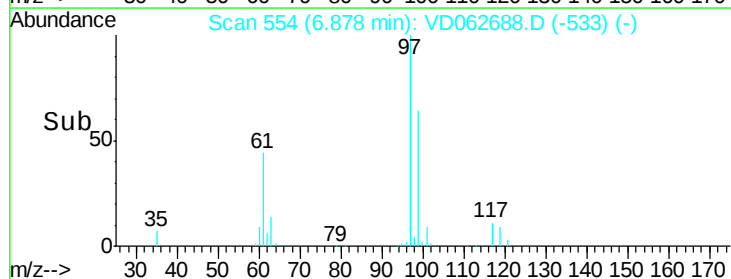
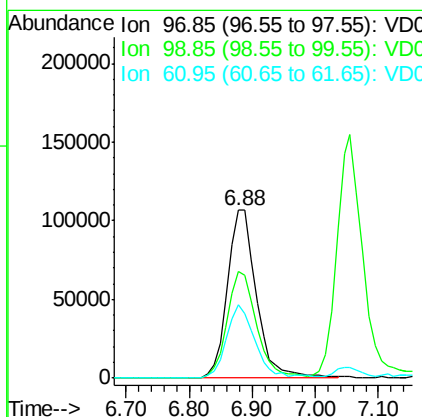
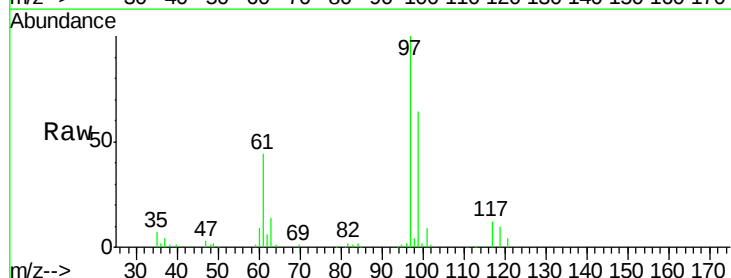
Instrument :
MSVOA_D
ClientSampleId :
VD0613SBS01

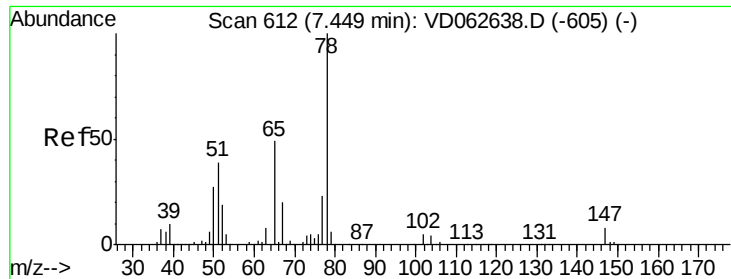
Tot Ion: 56 Resp: 160380
Ion Ratio Lower Upper
56 100
69 27.0 26.8 40.2
84 85.1 73.9 110.9



#32
1,1,1-Trichloroethane
Concen: 21.369 ug/l
RT: 6.88 min Scan# 554
Delta R.T. 0.01 min
Lab File: VD062688.D
Acq: 13 Jun 2019 12:29

Tgt Ion: 97 Resp: 340134
Ion Ratio Lower Upper
97 100
99 63.7 51.4 77.0
61 43.9 35.6 53.4





#33

1,2-Dichloroethane-d4

Concen: 50.422 ug/l

RT: 7.47 min Scan# 614

Delta R.T. 0.02 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

Instrument :

MSVOA_D

ClientSampleId :

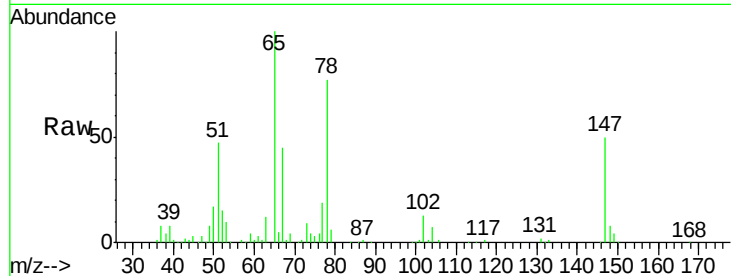
VD0613SBS01

Tot Ion: 65 Resp: 499692

Ion Ratio Lower Upper

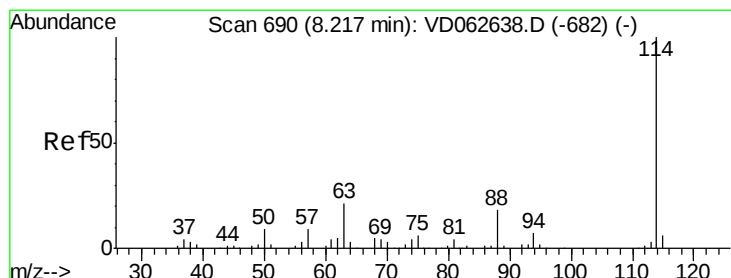
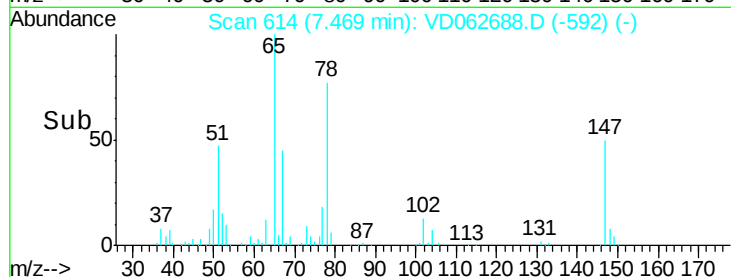
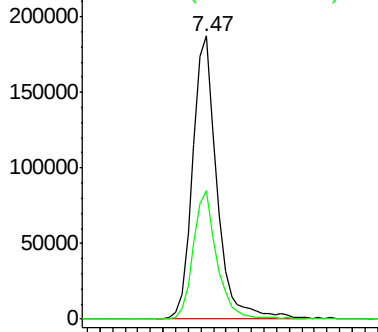
65 100

67 45.3 0.0 81.8



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: 8.23 min Scan# 691

Delta R.T. 0.01 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

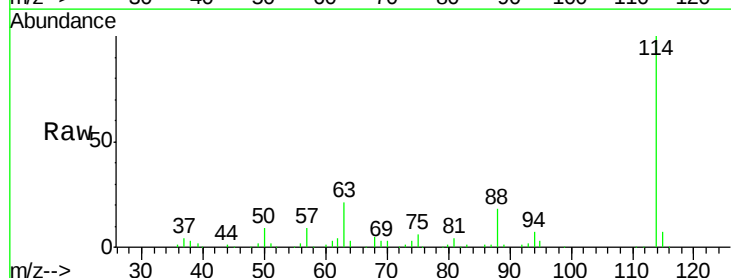
Tgt Ion: 114 Resp: 948005

Ion Ratio Lower Upper

114 100

63 21.1 0.0 42.4

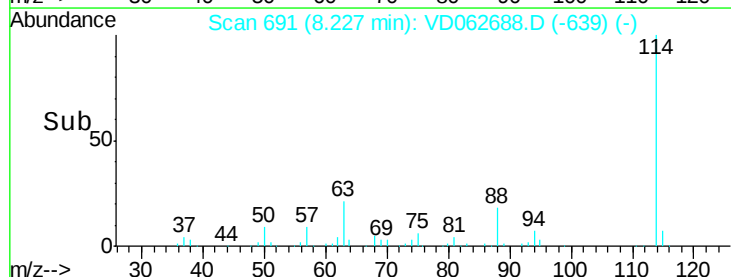
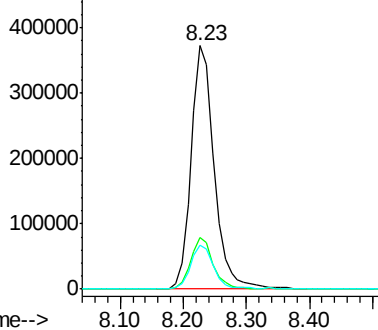
88 17.8 0.0 36.8

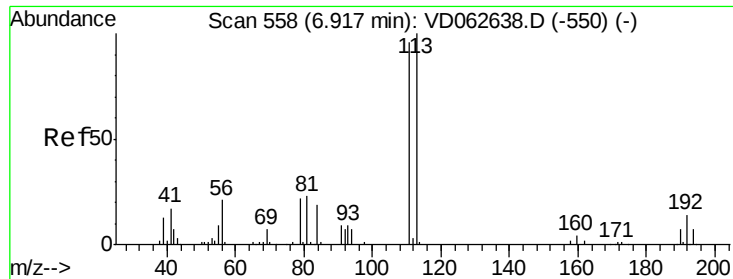


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 51.524 ug/l

RT: 6.94 min Scan# 560

Delta R.T. 0.02 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

Instrument :

MSVOA_D

ClientSampleId :

VD0613SBS01

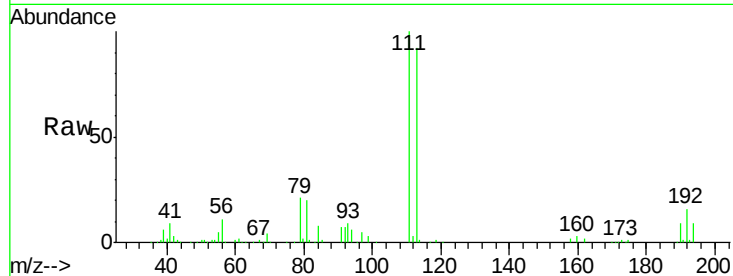
Tot Ion:113 Resp: 515131

Ion Ratio Lower Upper

113 100

111 109.0 76.4 114.6

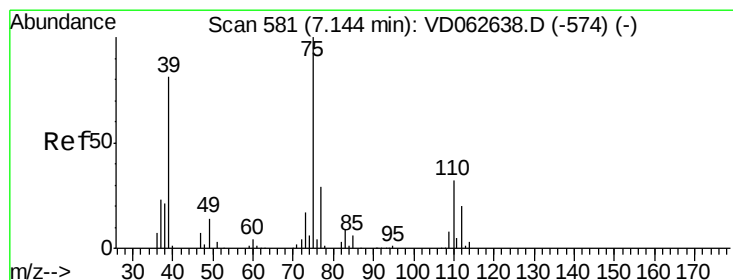
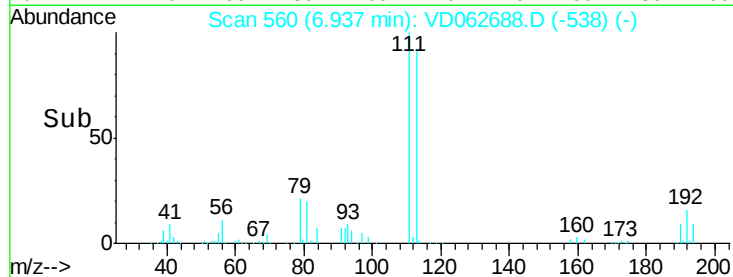
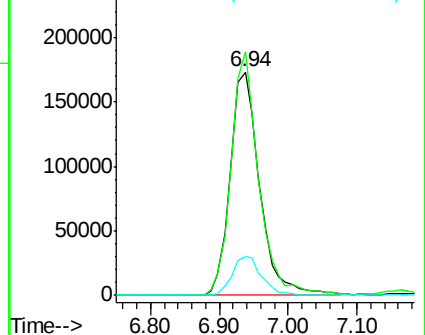
192 17.6 11.4 17.0#



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: 18.729 ug/l

RT: 7.15 min Scan# 582

Delta R.T. 0.01 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

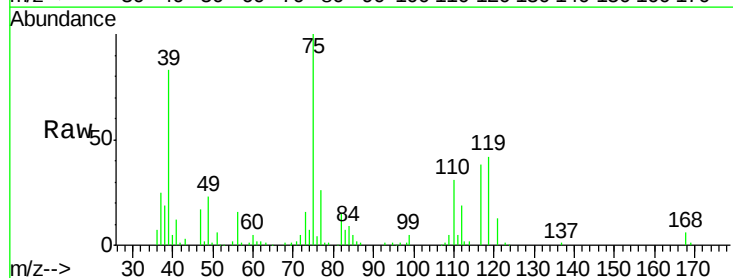
Tgt Ion: 75 Resp: 203213

Ion Ratio Lower Upper

75 100

110 31.2 15.9 47.7

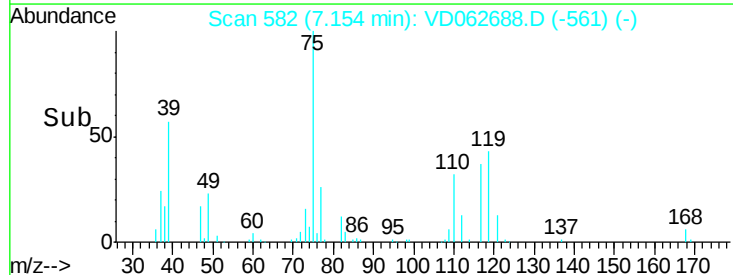
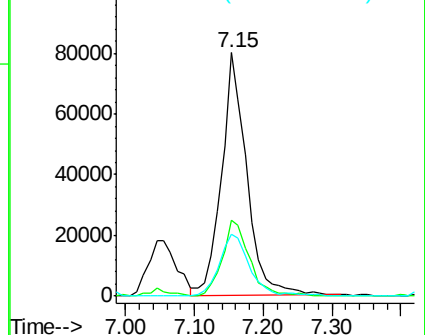
77 25.5 23.3 34.9

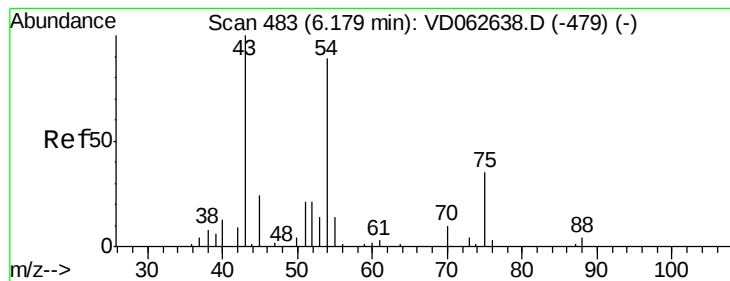


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC





#37

Ethyl Acetate

Concen: 19.299 ug/l

RT: 6.19 min Scan# 484

Delta R.T. 0.01 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

Instrument :

MSVOA_D

ClientSampleId :

VD0613SBS01

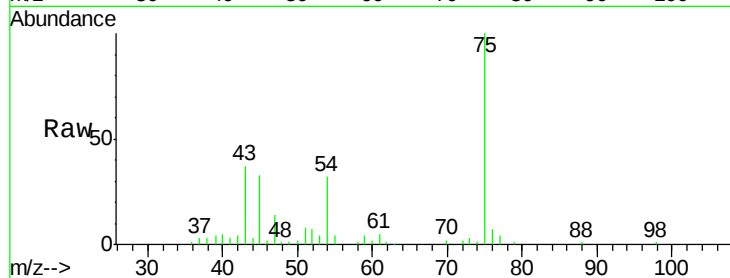
Tot Ion: 43 Resp: 85787

Ion Ratio Lower Upper

43 100

61 14.3 8.7 13.1#

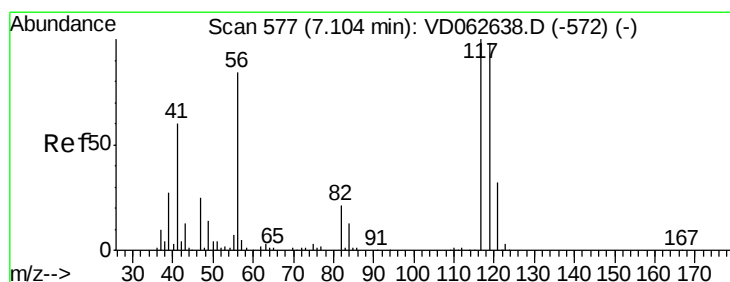
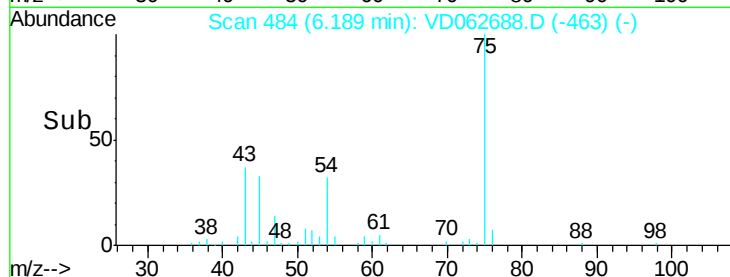
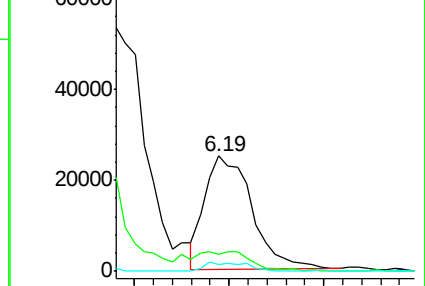
70 6.1 6.5 9.7#



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: 18.892 ug/l

RT: 7.12 min Scan# 579

Delta R.T. 0.02 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

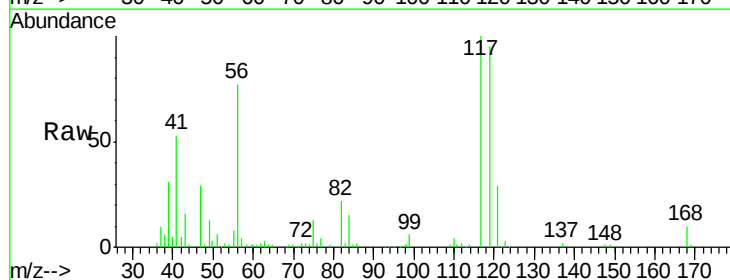
Tgt Ion: 117 Resp: 323979

Ion Ratio Lower Upper

117 100

119 94.8 73.5 110.3

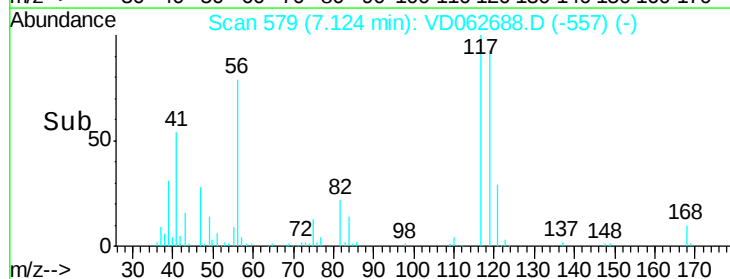
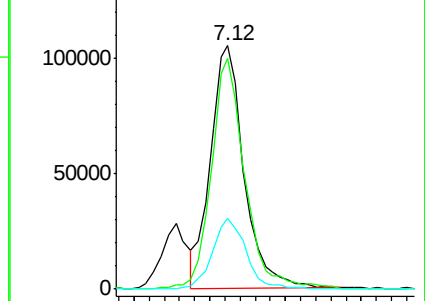
121 29.2 24.2 36.4

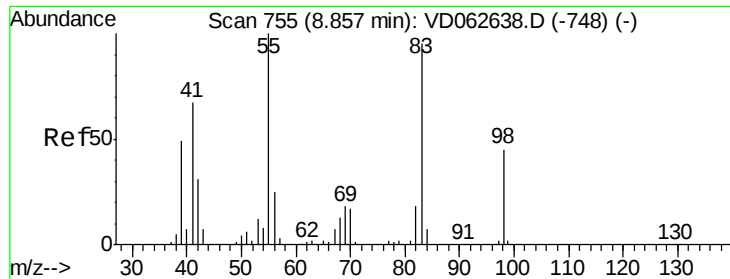


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

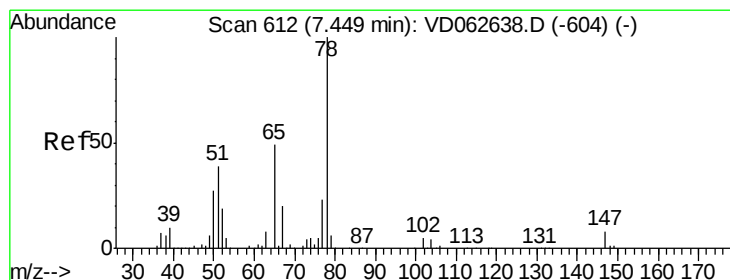
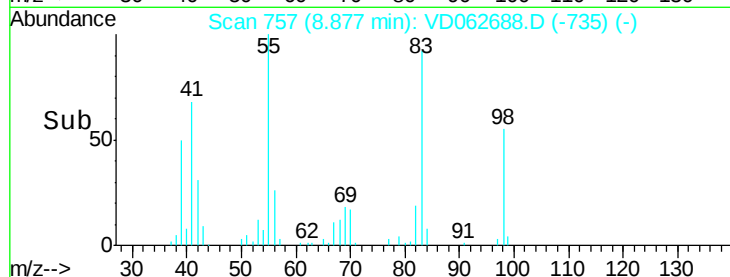
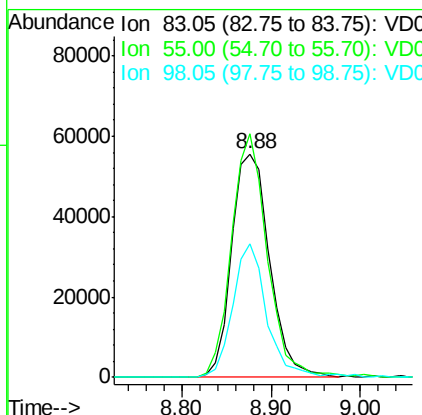
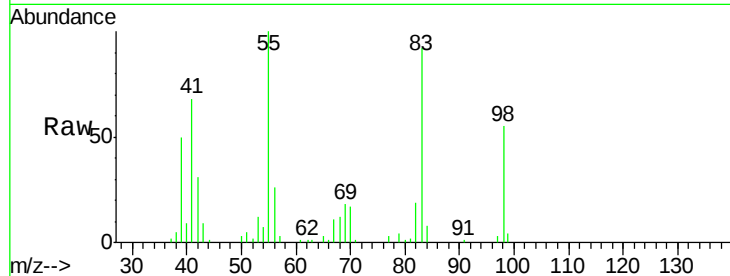




#39
Methvlcvclohexane
Concen: 18.923 ug/l
RT: 8.88 min Scan# 757
Delta R.T. 0.02 min
Lab File: VD062688.D
Acq: 13 Jun 2019 12:29

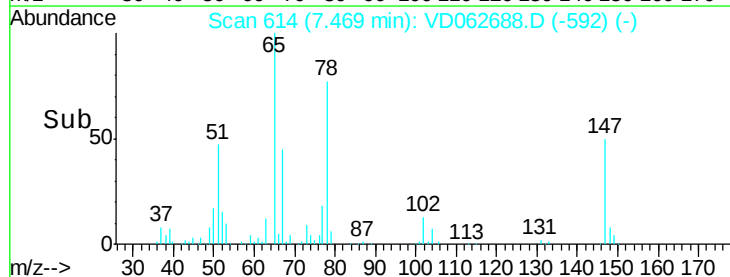
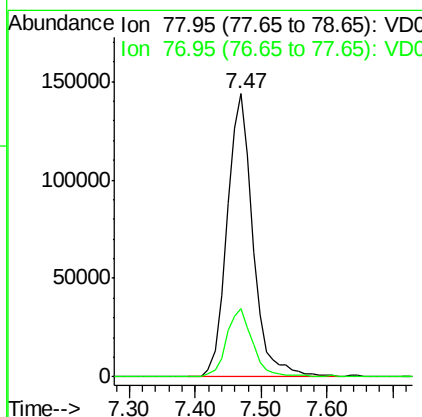
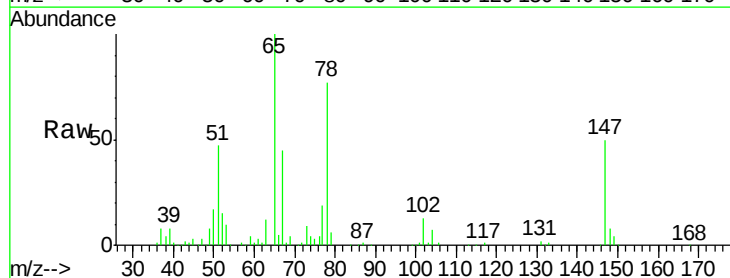
Instrument :
MSVOA_D
ClientSampleId :
VD0613SBS01

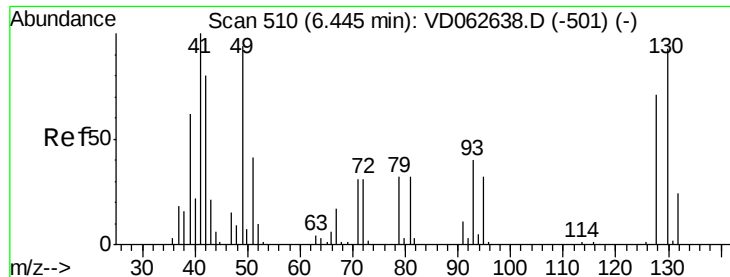
Tot Ion: 83 Resp: 165914
Ion Ratio Lower Upper
83 100
55 108.9 84.6 127.0
98 59.6 38.2 57.4#



#40
Benzene
Concen: 18.689 ug/l
RT: 7.47 min Scan# 614
Delta R.T. 0.02 min
Lab File: VD062688.D
Acq: 13 Jun 2019 12:29

Tgt Ion: 78 Resp: 395989
Ion Ratio Lower Upper
78 100
77 24.3 18.6 28.0





#41

Methacrylonitrile

Concen: 19.262 ug/l

RT: 6.47 min Scan# 513

Delta R.T. 0.03 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

Instrument :

MSVOA_D

ClientSampleId :

VD0613SBS01

Tot Ion: 41 Resp: 109399

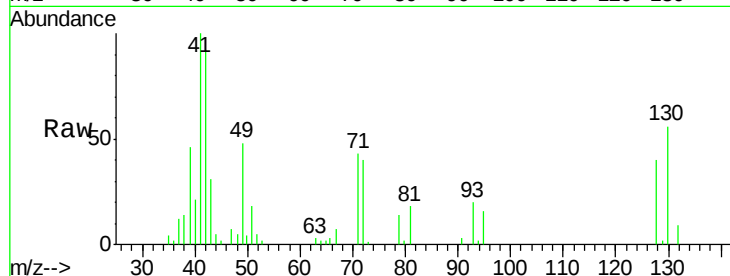
Ion Ratio Lower Upper

41 100

39 46.1 49.2 73.8#

67 6.8 13.9 20.9#

52 5.2 7.6 11.4#

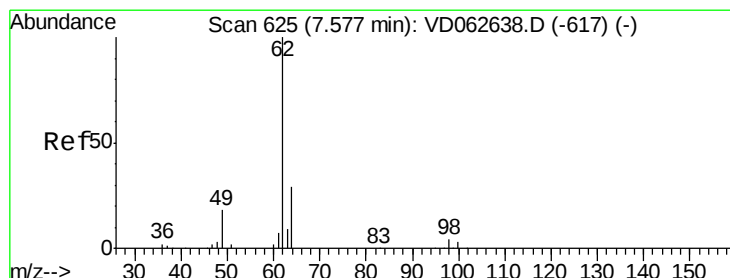
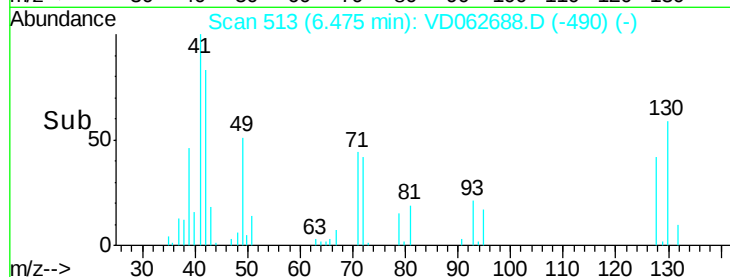
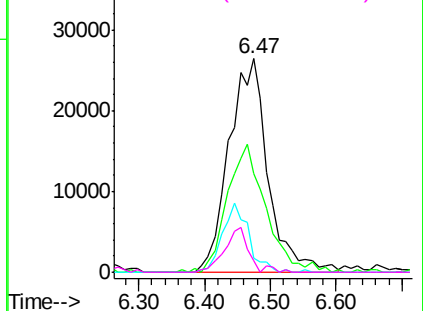


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 19.261 ug/l

RT: 7.59 min Scan# 626

Delta R.T. 0.01 min

Lab File: VD062688.D

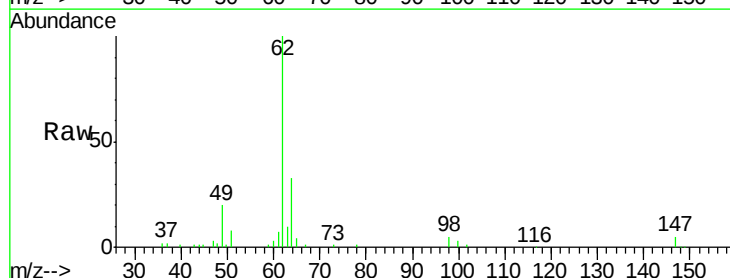
Acq: 13 Jun 2019 12:29

Tgt Ion: 62 Resp: 243248

Ion Ratio Lower Upper

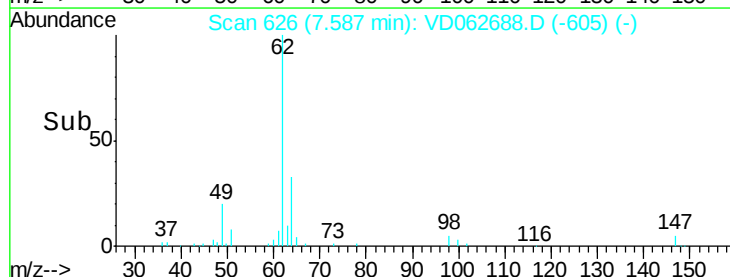
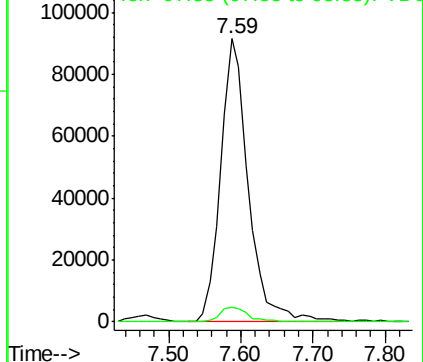
62 100

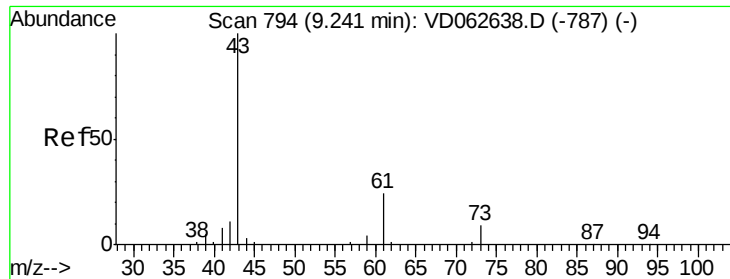
98 5.1 0.0 7.4



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



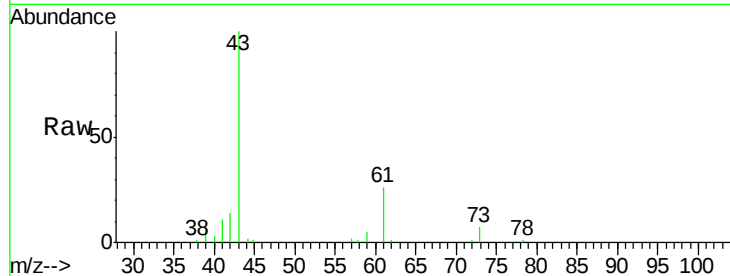


#43

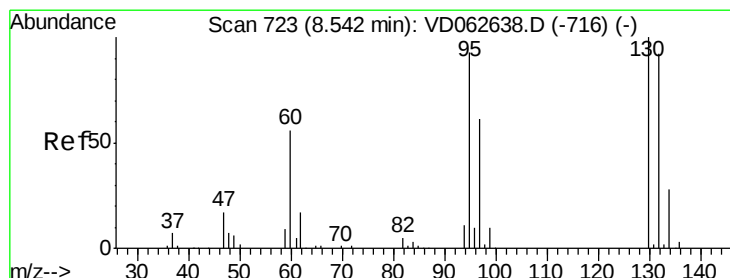
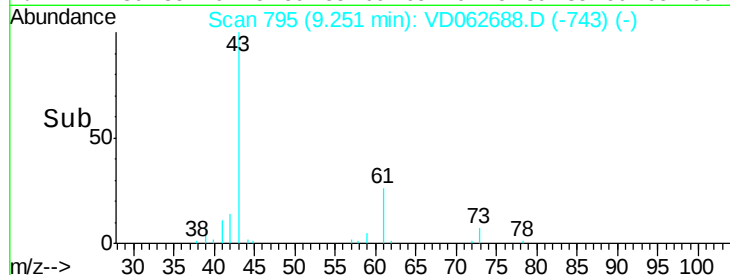
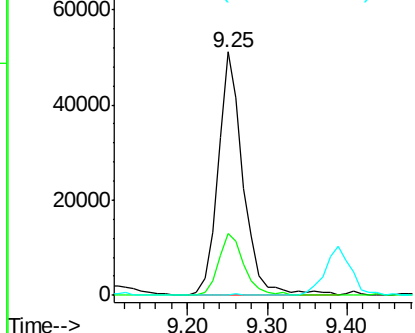
Isopropyl Acetate
 Concen: 19.672 ug/l
 RT: 9.25 min Scan# 795
 Delta R.T. 0.01 min
 Lab File: VD062688.D
 Acq: 13 Jun 2019 12:29

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0613SBS01

Tot Ion: 43 Resp: 112618
 Ion Ratio Lower Upper
 43 100
 61 25.7 19.0 28.6
 87 0.0 0.3 0.5#



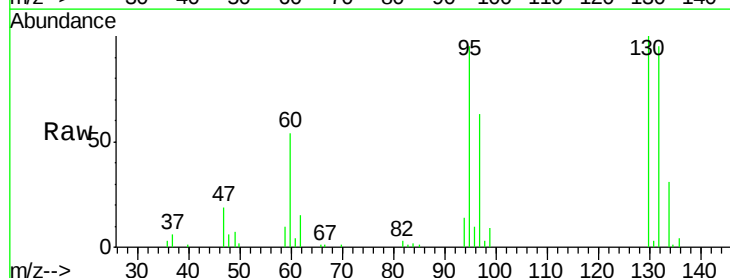
Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 87.00 (86.70 to 87.70): VDC



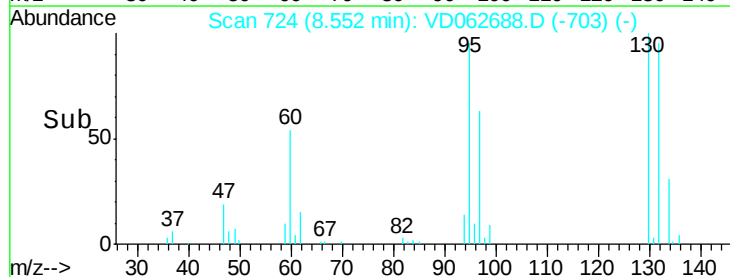
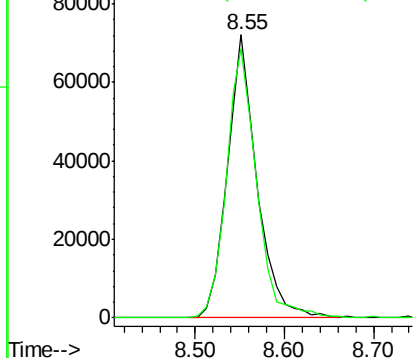
#44

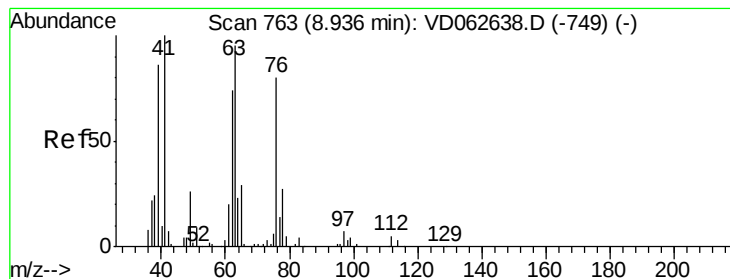
Trichloroethene
 Concen: 19.520 ug/l
 RT: 8.55 min Scan# 724
 Delta R.T. 0.01 min
 Lab File: VD062688.D
 Acq: 13 Jun 2019 12:29

Tgt Ion: 130 Resp: 167910
 Ion Ratio Lower Upper
 130 100
 95 95.1 0.0 185.6



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





#45

1,2-Dichloropropane

Concen: 19.096 ug/l

RT: 8.95 min Scan# 764

Delta R.T. 0.01 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

Instrument :

MSVOA_D

ClientSampleId :

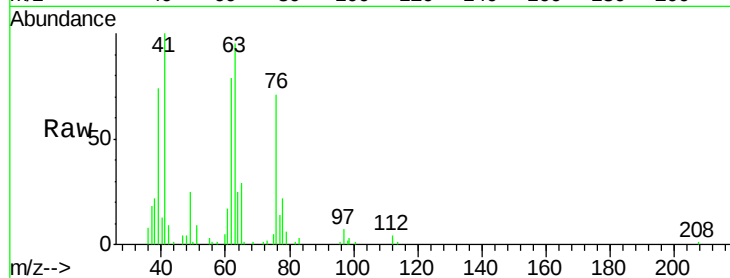
VD0613SBS01

Tot Ion: 63 Resp: 97187

Ion Ratio Lower Upper

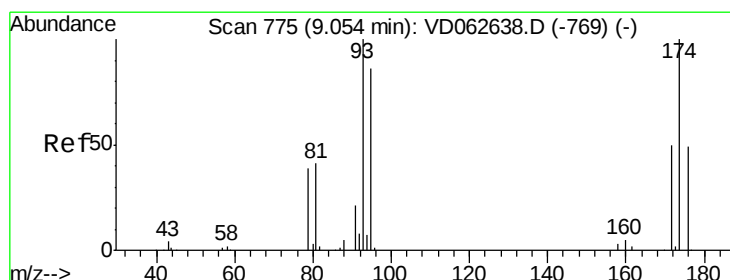
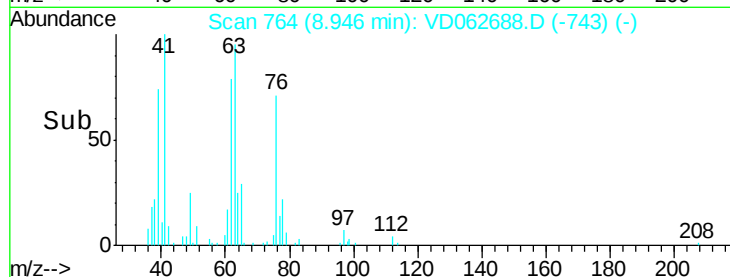
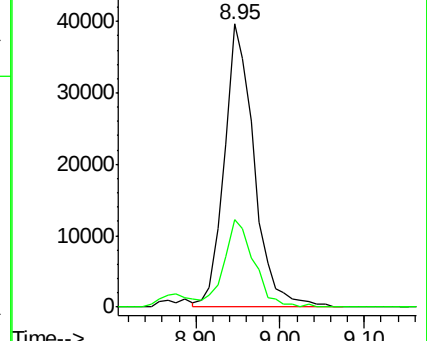
63 100

65 30.7 24.6 37.0



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 18.996 ug/l

RT: 9.07 min Scan# 777

Delta R.T. 0.02 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

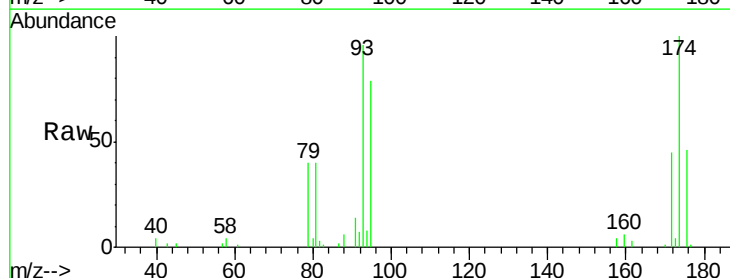
Tgt Ion: 93 Resp: 85817

Ion Ratio Lower Upper

93 100

95 83.1 68.7 103.1

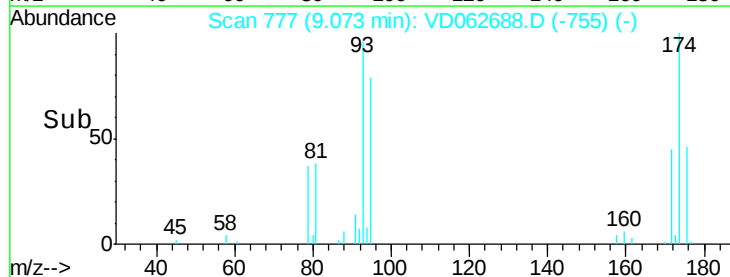
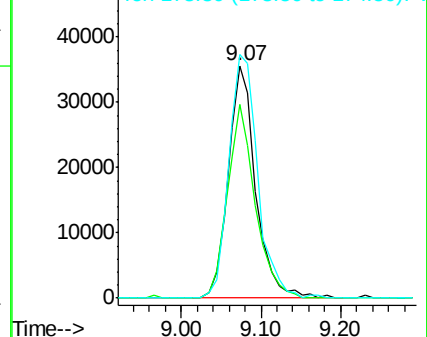
174 104.7 79.8 119.8

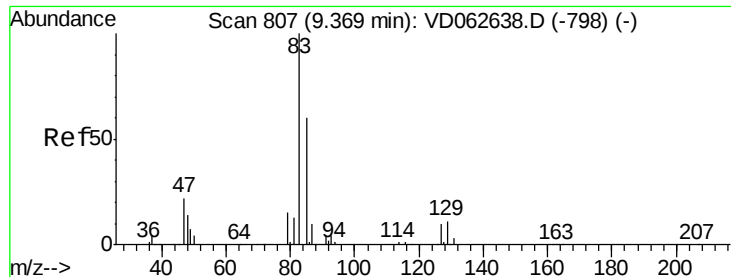


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V





#47

Bromodichloromethane

Concen: 20.348 ug/l

RT: 9.39 min Scan# 809

Delta R.T. 0.02 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

Instrument :

MSVOA_D

ClientSampleId :

VD0613SBS01

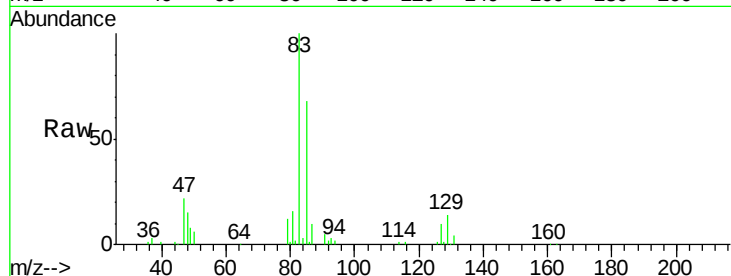
Tot Ion: 83 Resp: 250070

Ion Ratio Lower Upper

83 100

85 67.7 47.9 71.9

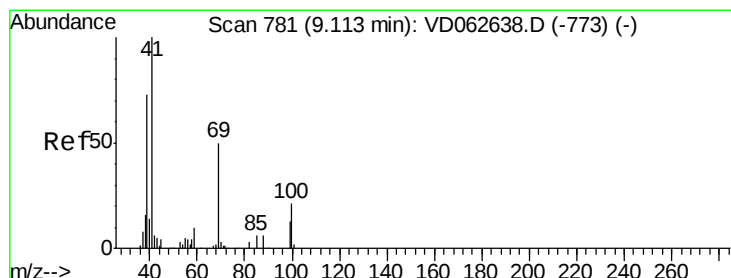
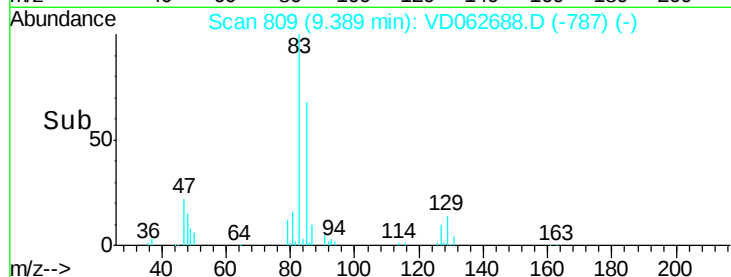
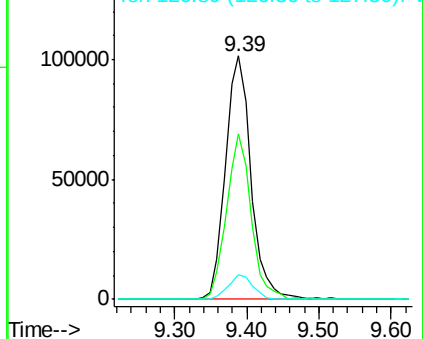
127 9.9 8.2 12.4



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: 19.281 ug/l

RT: 9.13 min Scan# 783

Delta R.T. 0.02 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

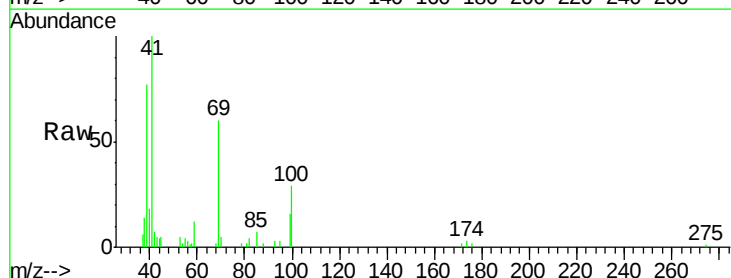
Tgt Ion: 41 Resp: 79743

Ion Ratio Lower Upper

41 100

69 60.0 39.8 59.6#

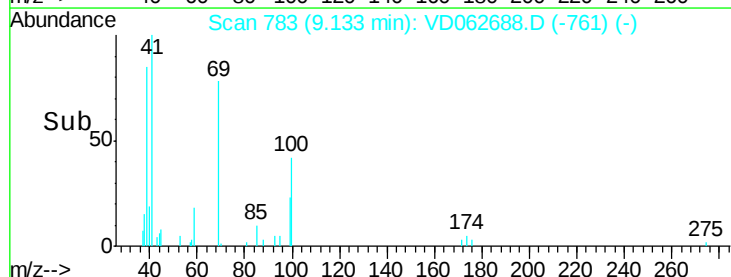
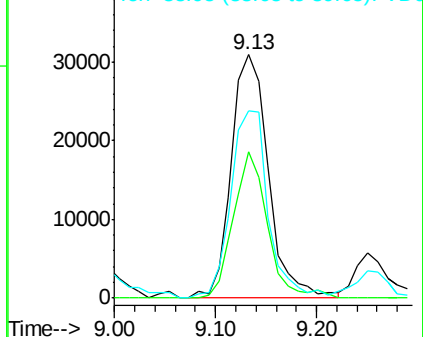
39 76.7 59.1 88.7

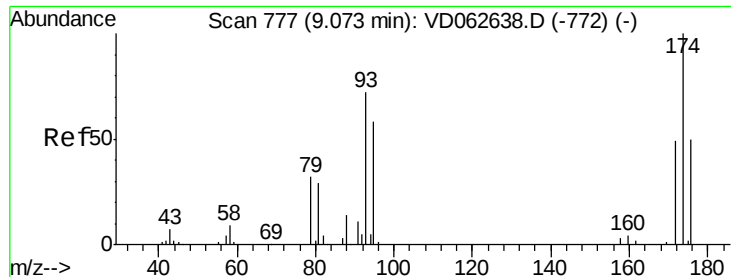


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 38.95 (38.65 to 39.65): VDC

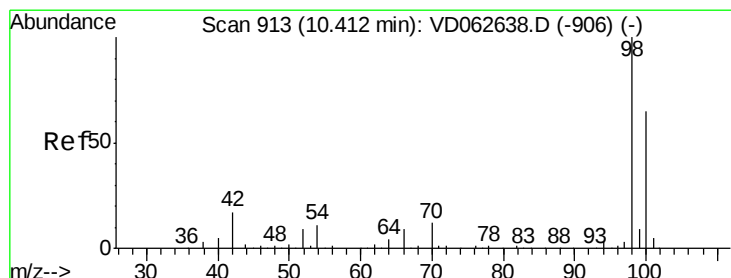
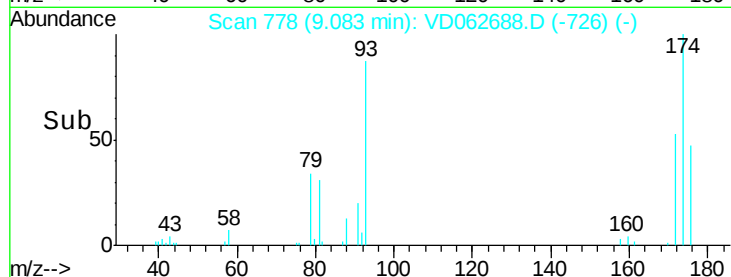
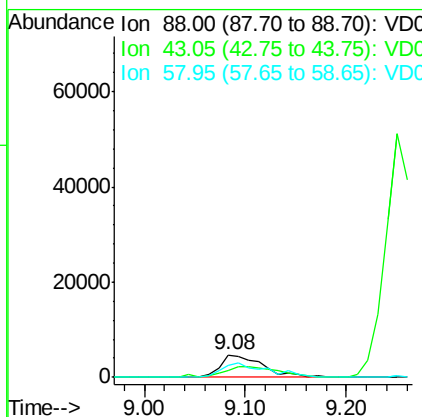
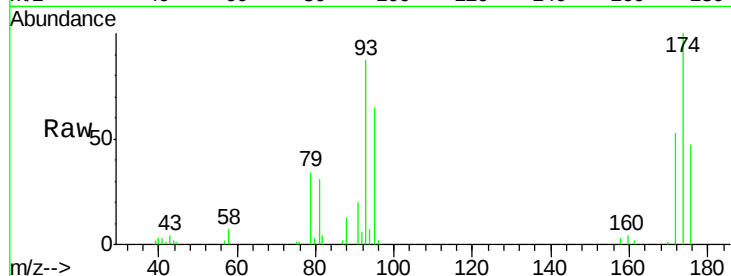




#49
1,4-Dioxane
Concen: 399.975 ug/l
RT: 9.08 min Scan# 778
Delta R.T. 0.01 min
Lab File: VD062688.D
Acq: 13 Jun 2019 12:29

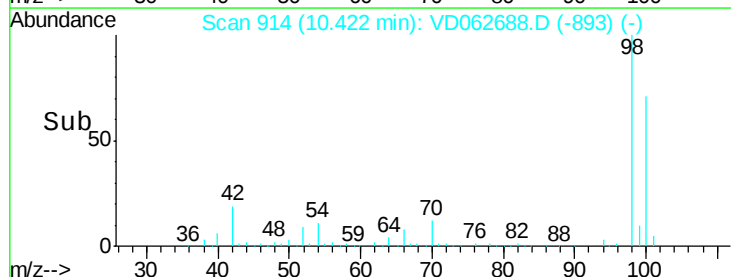
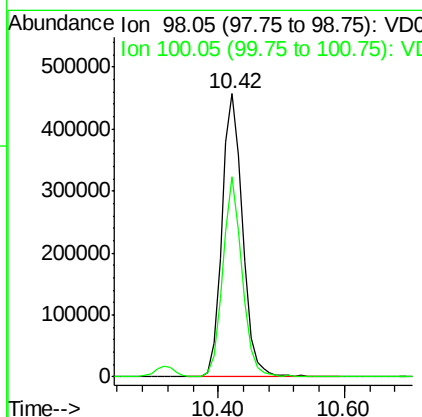
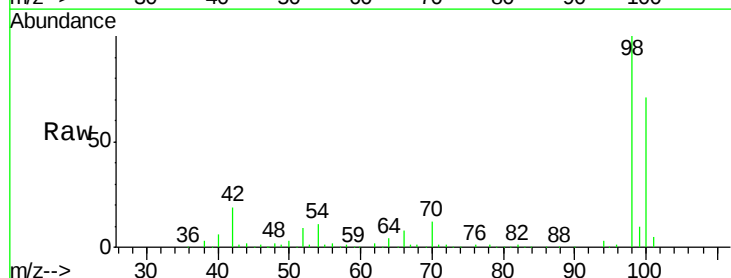
Instrument :
MSVOA_D
ClientSampleId :
VD0613SBS01

Tot Ion: 88 Resp: 13692
Ion Ratio Lower Upper
88 100
43 43.8 40.7 61.1
58 52.7 54.2 81.4#



#50
Toluene-d8
Concen: 49.523 ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.01 min
Lab File: VD062688.D
Acq: 13 Jun 2019 12:29

Tgt Ion: 98 Resp: 1041569
Ion Ratio Lower Upper
98 100
100 70.6 52.1 78.1





#51

4-Methyl-2-Pentanone

Concen: 98.156 ug/l

RT: 10.31 min Scan# 903

Delta R.T. 0.01 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

Instrument :

MSVOA_D

ClientSampleId :

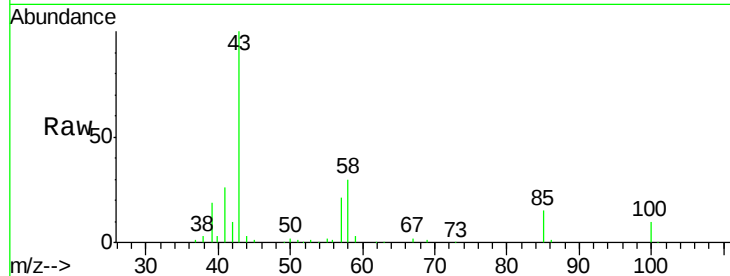
VD0613SBS01

Tot Ion: 43 Resp: 393194

Ion Ratio Lower Upper

43 100

58 30.4 26.1 39.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.31

150000

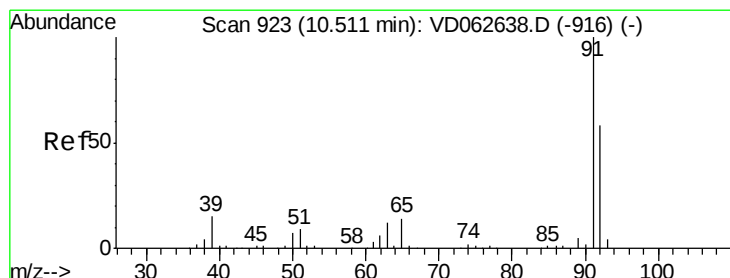
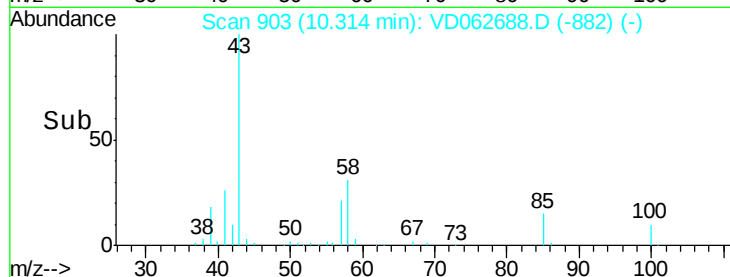
100000

50000

0

Time-->

10.20 10.30 10.40



#52

Toluene

Concen: 19.021 ug/l

RT: 10.52 min Scan# 924

Delta R.T. 0.01 min

Lab File: VD062688.D

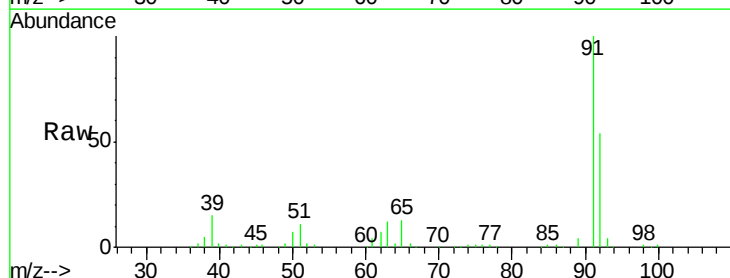
Acq: 13 Jun 2019 12:29

Tgt Ion: 92 Resp: 270908

Ion Ratio Lower Upper

92 100

91 186.3 137.0 205.6



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

250000

200000

150000

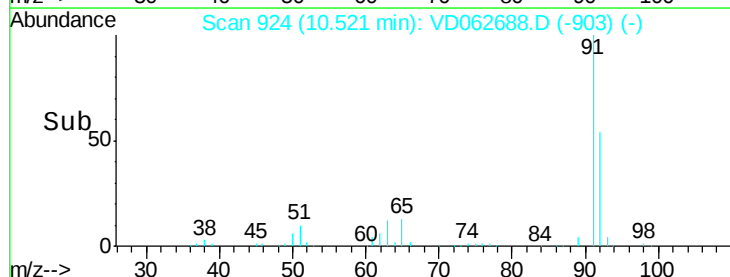
100000

50000

0

Time-->

10.40 10.50 10.60

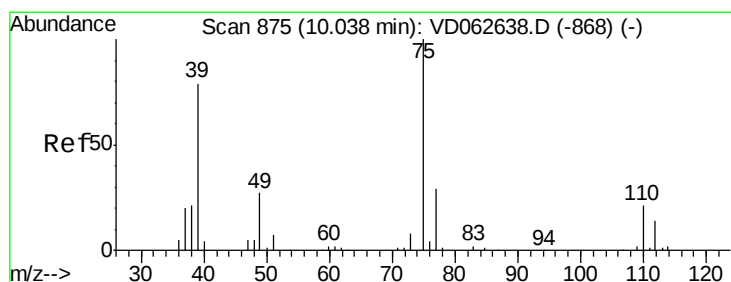
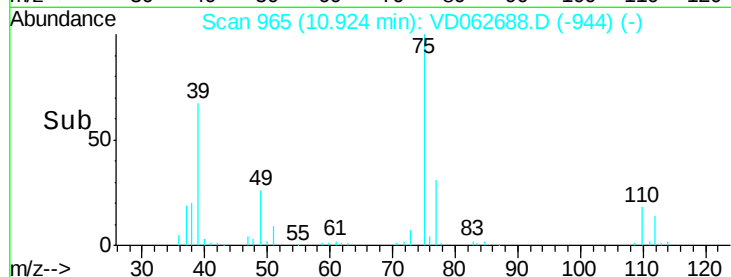
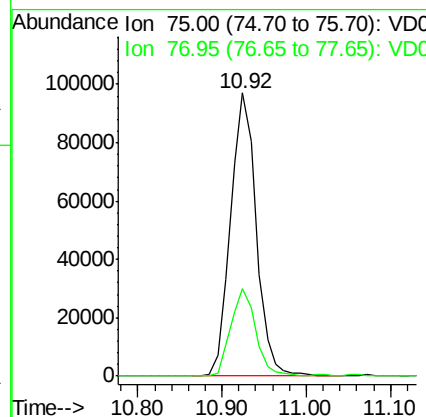
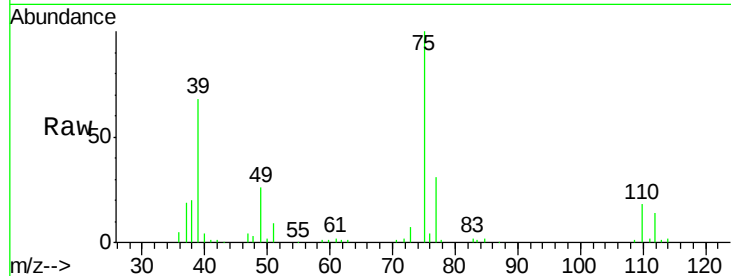




#53
 t-1,3-Dichloropropene
 Concen: 20.432 ug/l
 RT: 10.92 min Scan# 965
 Delta R.T. 0.01 min
 Lab File: VD062688.D
 Acq: 13 Jun 2019 12:29

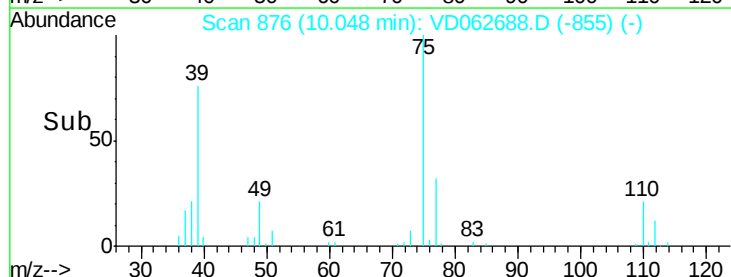
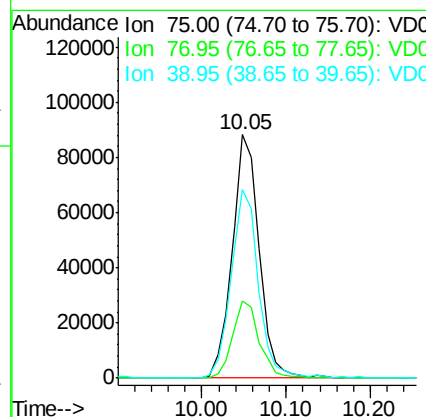
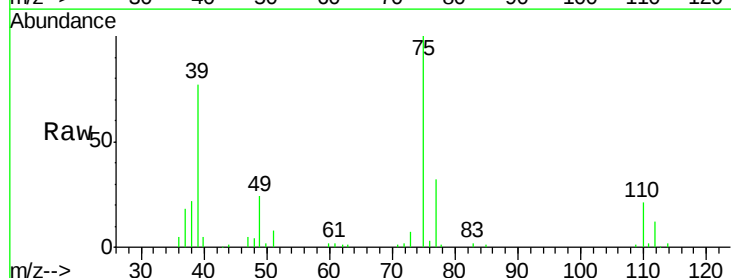
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0613SBS01

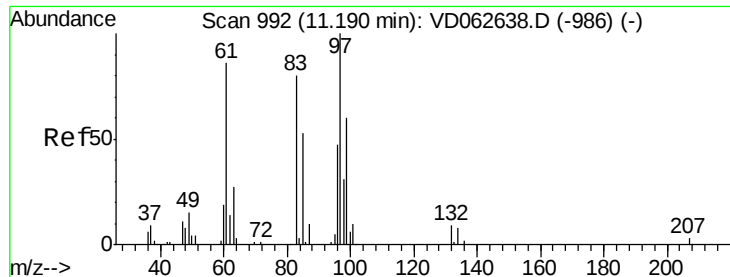
Tot Ion: 75 Resp: 205869
 Ion Ratio Lower Upper
 75 100
 77 30.9 24.1 36.1



#54
 cis-1,3-Dichloropropene
 Concen: 18.774 ug/l
 RT: 10.05 min Scan# 876
 Delta R.T. 0.01 min
 Lab File: VD062688.D
 Acq: 13 Jun 2019 12:29

Tgt Ion: 75 Resp: 195511
 Ion Ratio Lower Upper
 75 100
 77 31.8 23.1 34.7
 39 77.3 63.4 95.2





#55

1,1,2-Trichloroethane

Concen: 19.333 ug/l

RT: 11.20 min Scan# 993

Delta R.T. 0.01 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

Instrument :

MSVOA_D

ClientSampleId :

VD0613SBS01

Tot Ion: 97 Resp: 94433

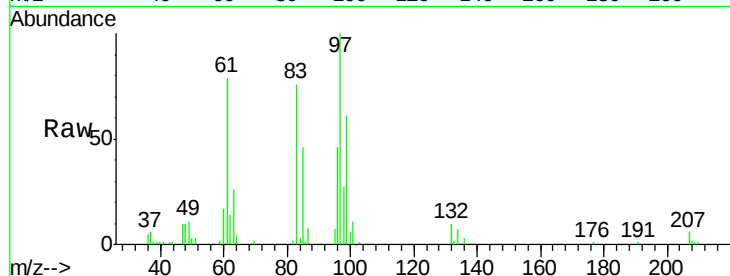
Ion Ratio Lower Upper

97 100

83 76.3 63.8 95.8

85 45.7 42.3 63.5

99 60.7 48.0 72.0

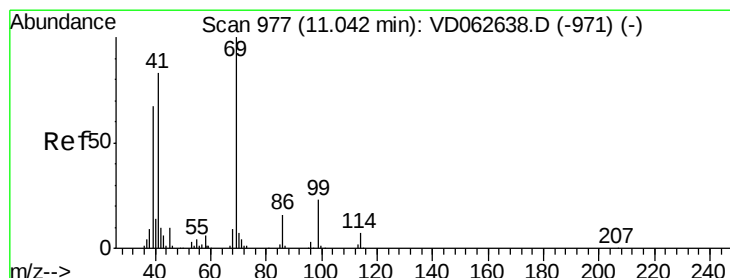
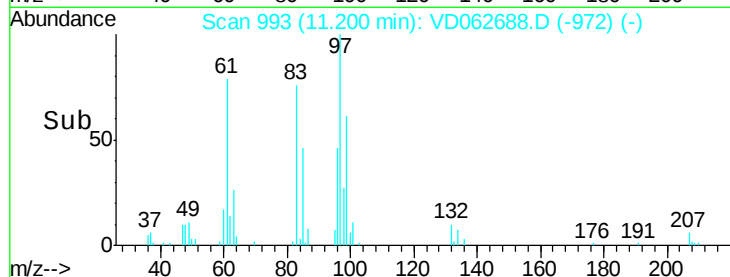
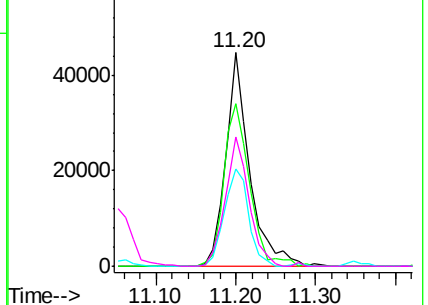


Abundance Ion 96.85 (96.55 to 97.55): VDC

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: 20.064 ug/l

RT: 11.05 min Scan# 978

Delta R.T. 0.01 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

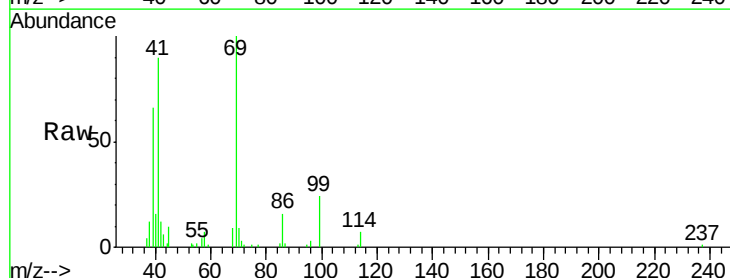
Tgt Ion: 69 Resp: 103014

Ion Ratio Lower Upper

69 100

41 90.2 66.2 99.4

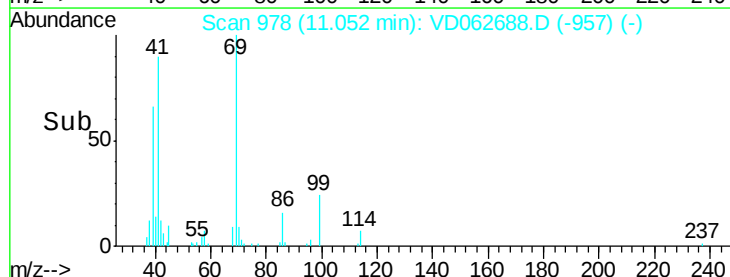
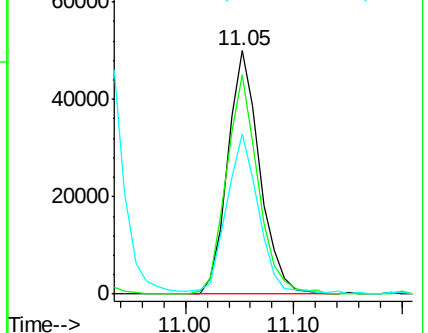
39 65.6 53.8 80.8

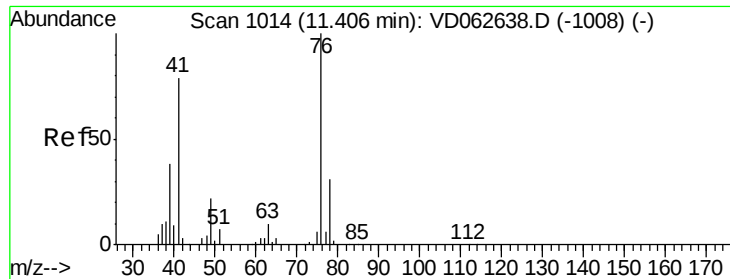


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 19.008 ug/l

RT: 11.42 min Scan# 1015

Delta R.T. 0.01 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

Instrument :

MSVOA_D

ClientSampleId :

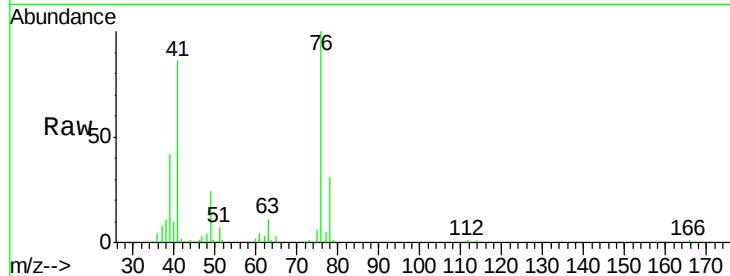
VD0613SBS01

Tot Ion: 76 Resp: 143901

Ion Ratio Lower Upper

76 100

78 31.3 24.9 37.3



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC

11.42

80000

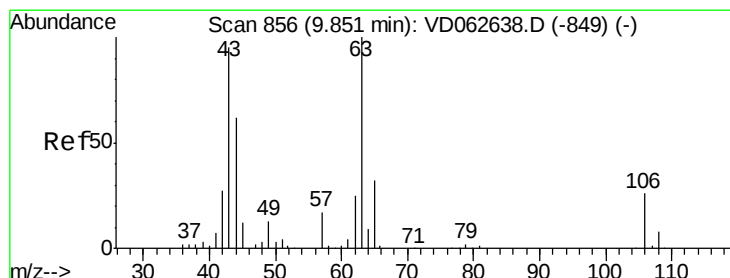
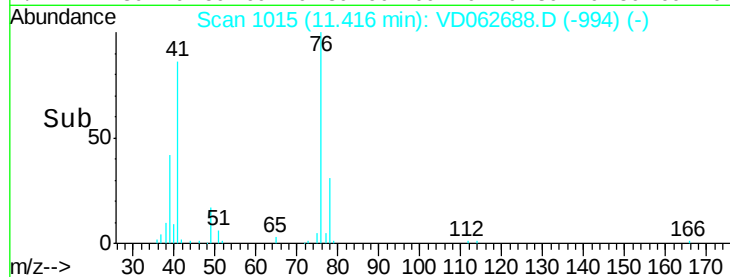
60000

40000

20000

0

Time--> 11.30 11.40 11.50



#58

2-Chloroethyl Vinyl ether

Concen: 111.162 ug/l

RT: 9.87 min Scan# 858

Delta R.T. 0.02 min

Lab File: VD062688.D

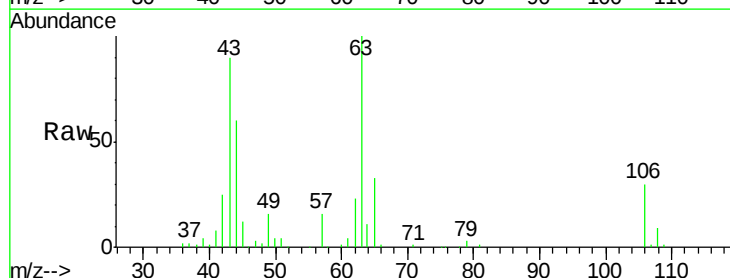
Acq: 13 Jun 2019 12:29

Tgt Ion: 63 Resp: 290201

Ion Ratio Lower Upper

63 100

106 30.0 20.5 30.7



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

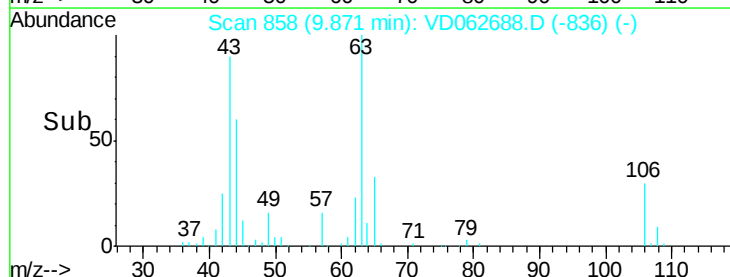
150000

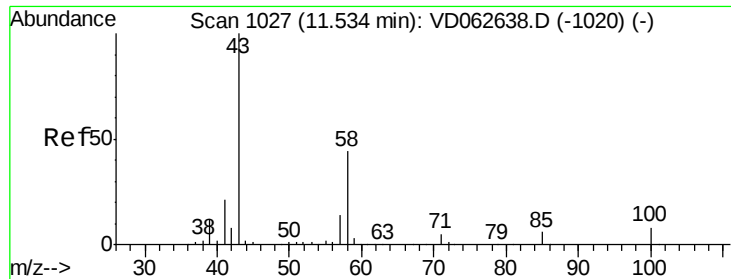
100000

50000

0

Time--> 9.80 9.90 10.00

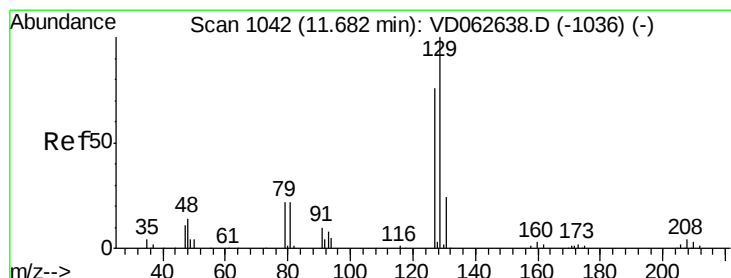
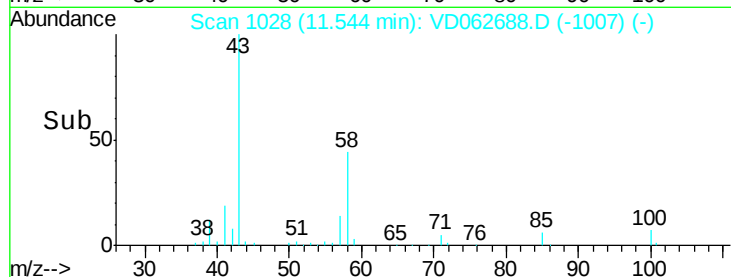
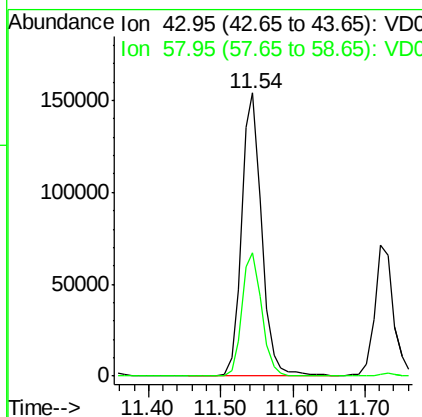
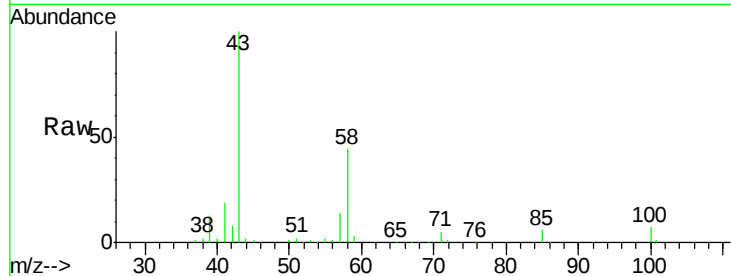




#59
2-Hexanone
Concen: 100.445 ug/l
RT: 11.54 min Scan# 1028
Delta R.T. 0.01 min
Lab File: VD062688.D
Acq: 13 Jun 2019 12:29

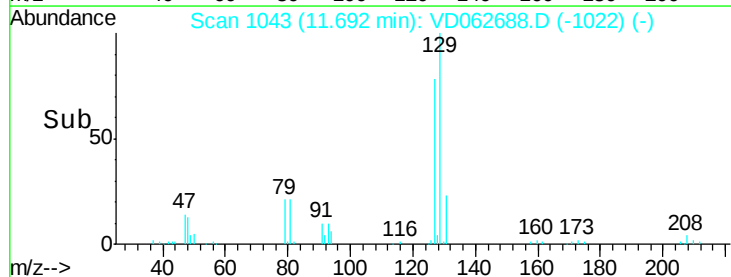
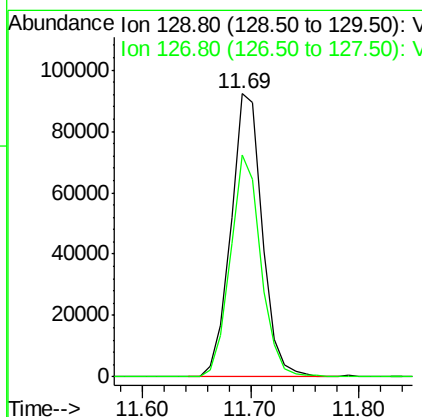
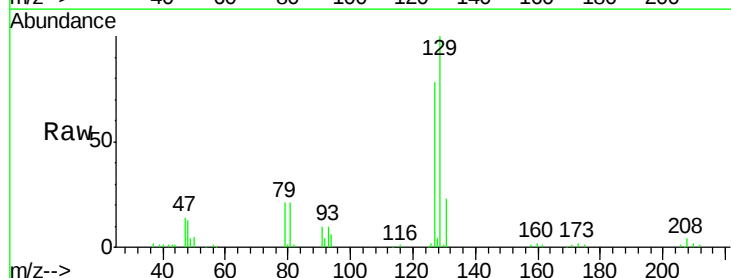
Instrument :
MSVOA_D
ClientSampleId :
VD0613SBS01

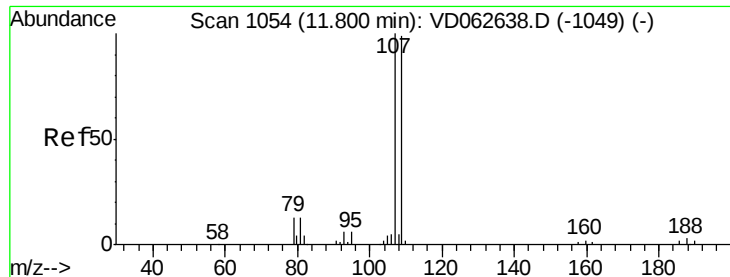
Tot Ion: 43 Resp: 299302
Ion Ratio Lower Upper
43 100
58 43.7 21.8 65.4



#60
Dibromochloromethane
Concen: 19.240 ug/l
RT: 11.69 min Scan# 1043
Delta R.T. 0.01 min
Lab File: VD062688.D
Acq: 13 Jun 2019 12:29

Tgt Ion: 129 Resp: 185511
Ion Ratio Lower Upper
129 100
127 78.4 38.0 114.1

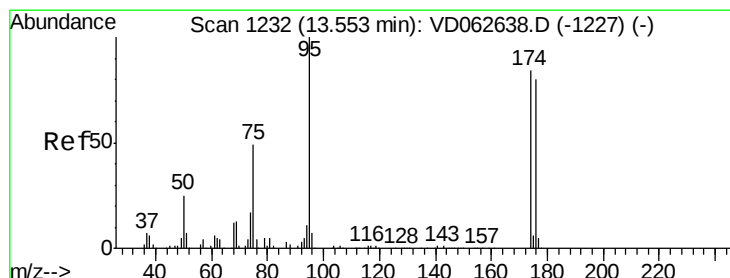
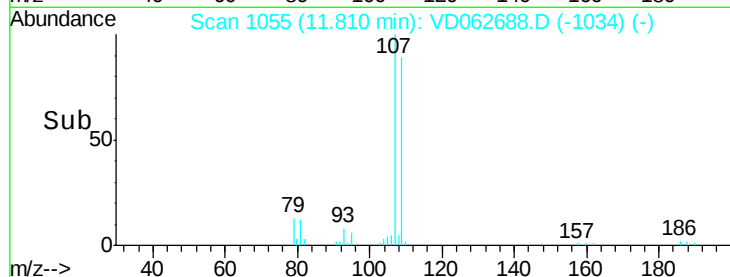
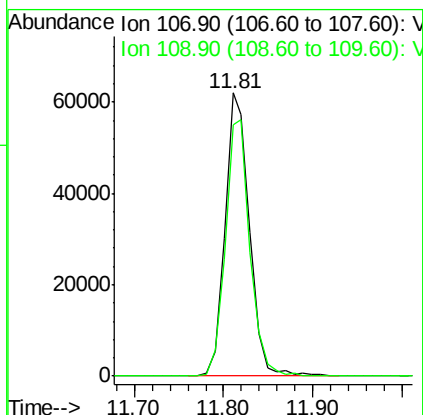
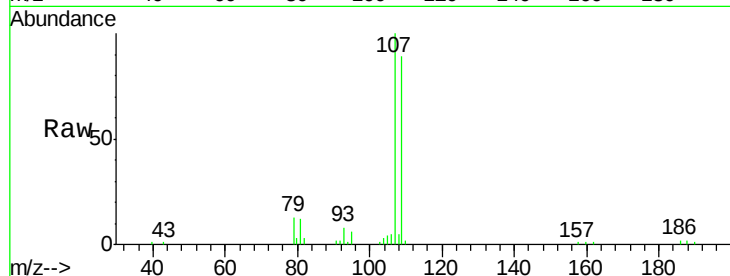




#61
1,2-Dibromoethane
Concen: 20.415 ug/l
RT: 11.81 min Scan# 1055
Delta R.T. 0.01 min
Lab File: VD062688.D
Acq: 13 Jun 2019 12:29

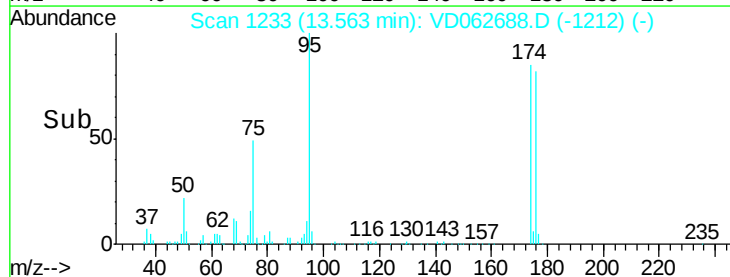
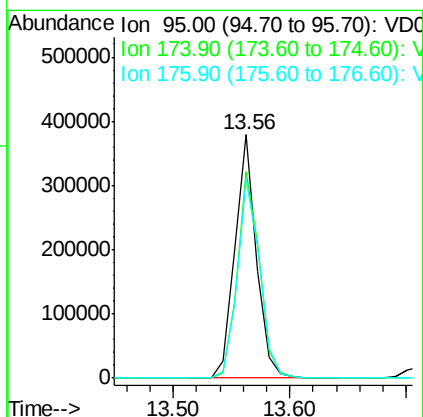
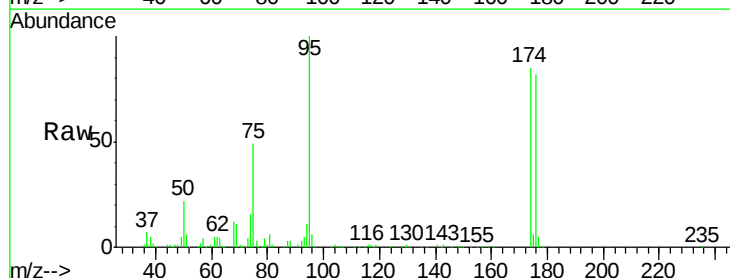
Instrument :
MSVOA_D
ClientSampleId :
VD0613SBS01

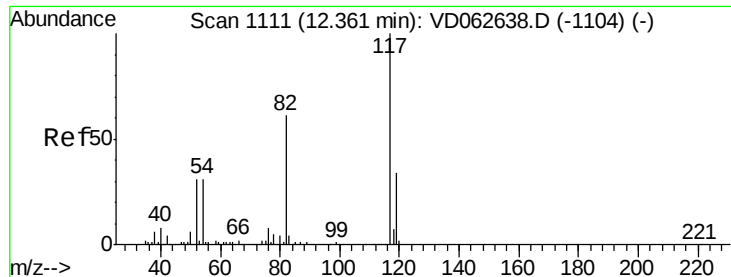
Tot Ion:107 Resp: 119346
Ion Ratio Lower Upper
107 100
109 88.9 79.2 118.8



#62
4-Bromofluorobenzene
Concen: 49.037 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.01 min
Lab File: VD062688.D
Acq: 13 Jun 2019 12:29

Tgt Ion: 95 Resp: 481161
Ion Ratio Lower Upper
95 100
174 84.9 0.0 167.0
176 81.9 0.0 159.2

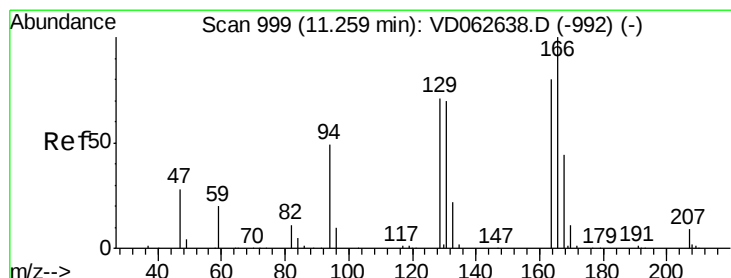
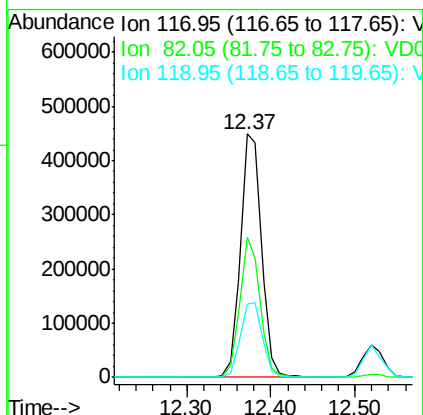
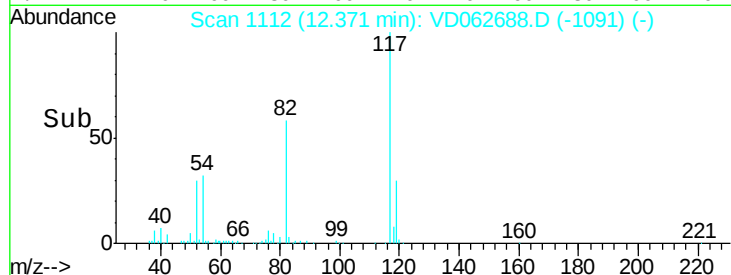
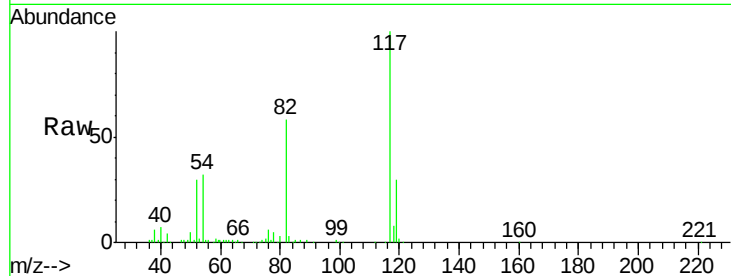




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD062688.D
Acq: 13 Jun 2019 12:29

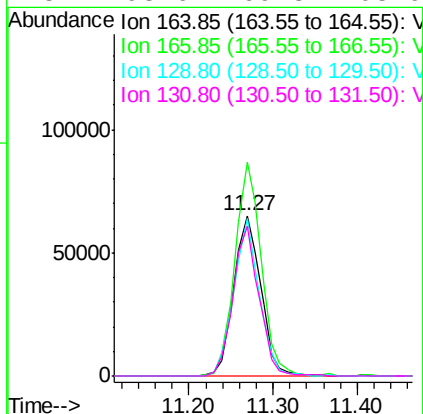
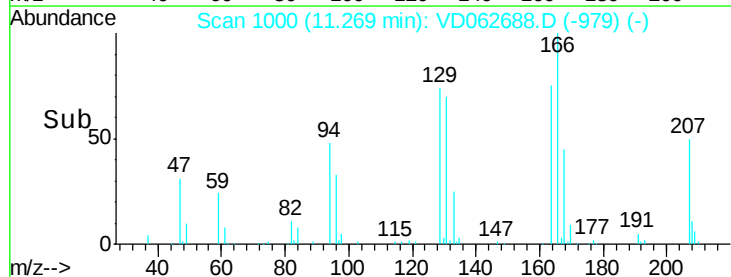
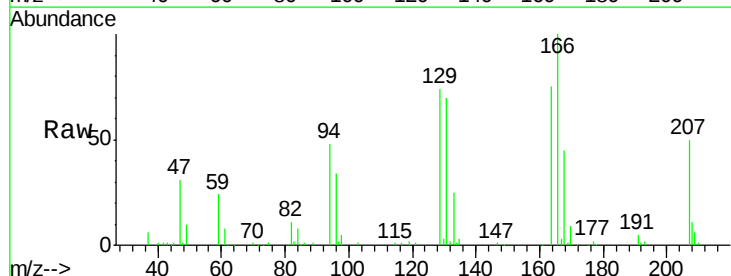
Instrument :
MSVOA_D
ClientSampleId :
VD0613SBS01

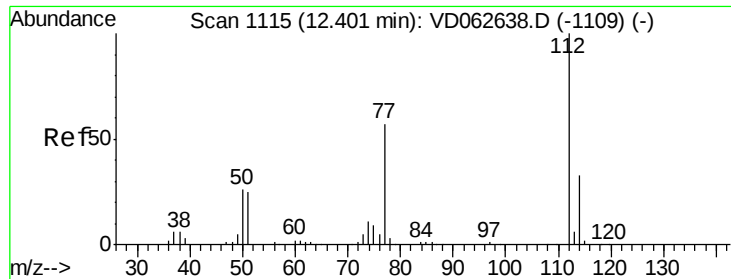
Tot Ion:117 Resp: 780744
Ion Ratio Lower Upper
117 100
82 57.6 48.7 73.1
119 30.3 27.0 40.6



#64
Tetrachloroethene
Concen: 19.909 ug/l
RT: 11.27 min Scan# 1000
Delta R.T. 0.01 min
Lab File: VD062688.D
Acq: 13 Jun 2019 12:29

Tgt Ion:164 Resp: 145507
Ion Ratio Lower Upper
164 100
166 133.3 99.4 149.2
129 98.0 70.2 105.4
131 93.6 69.3 103.9

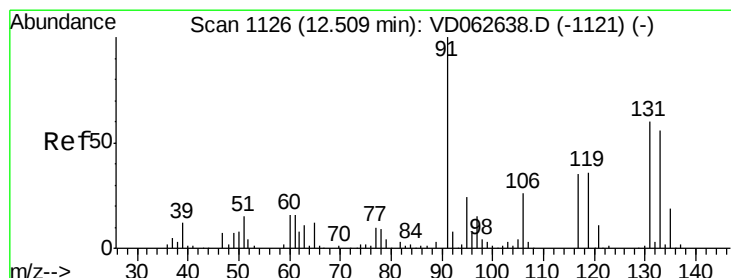
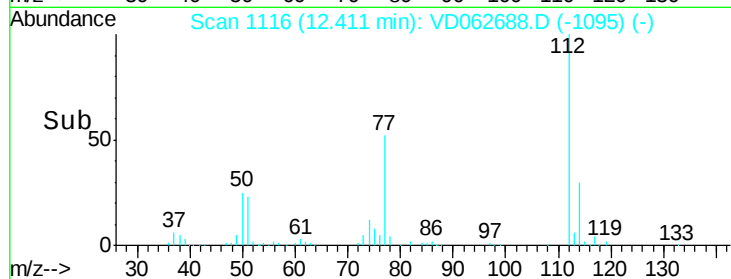
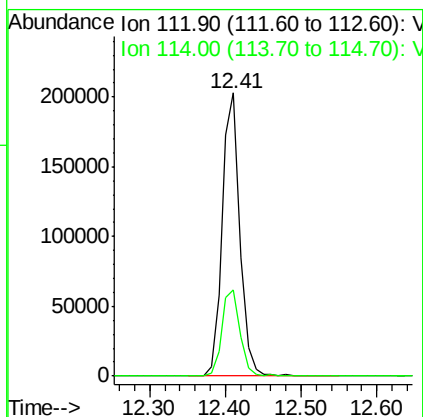
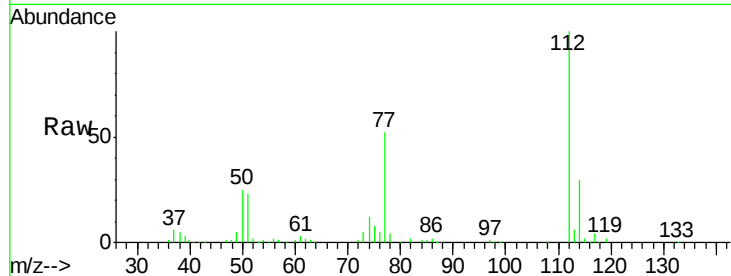




#65
Chlorobenzene
Concen: 19.092 ug/l
RT: 12.41 min Scan# 1116
Delta R.T. 0.01 min
Lab File: VD062688.D
Acq: 13 Jun 2019 12:29

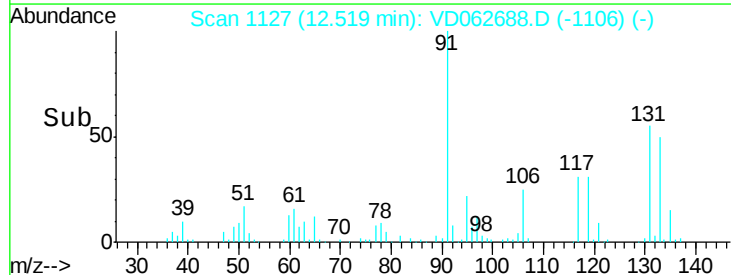
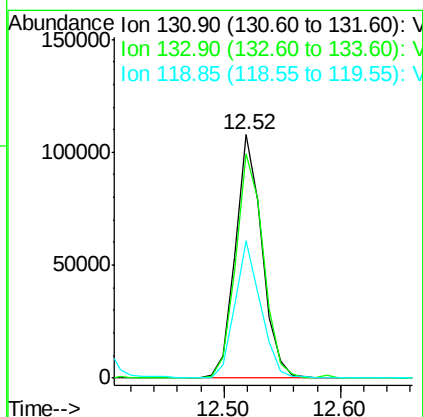
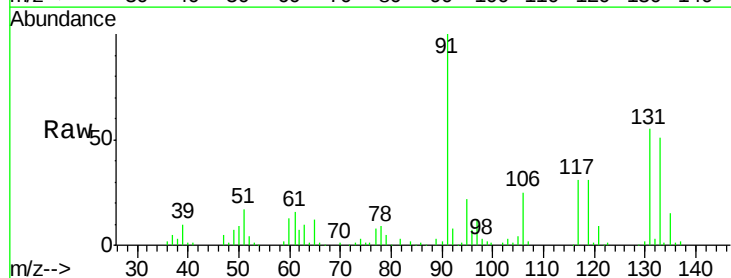
Instrument :
MSVOA_D
ClientSampleId :
VD0613SBS01

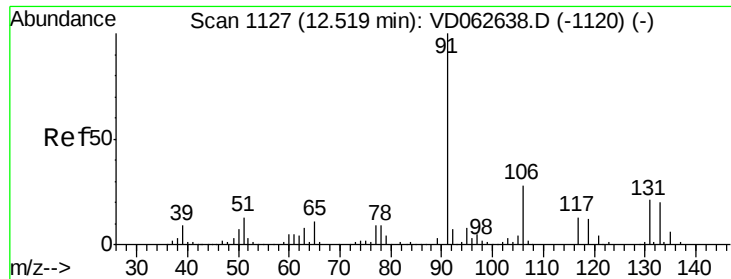
Tot Ion:112 Resp: 329719
Ion Ratio Lower Upper
112 100
114 30.3 26.3 39.5



#66
1,1,1,2-Tetrachloroethane
Concen: 20.673 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. 0.01 min
Lab File: VD062688.D
Acq: 13 Jun 2019 12:29

Tgt Ion:131 Resp: 170272
Ion Ratio Lower Upper
131 100
133 92.4 46.8 140.3
119 56.3 29.9 89.8

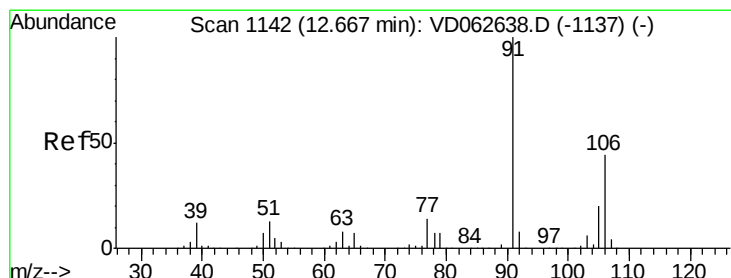
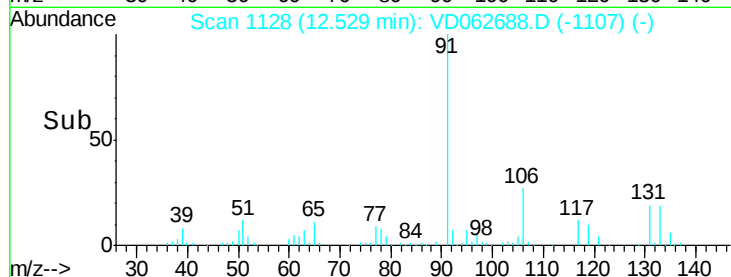
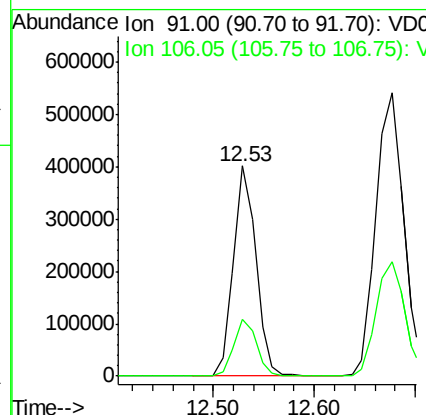
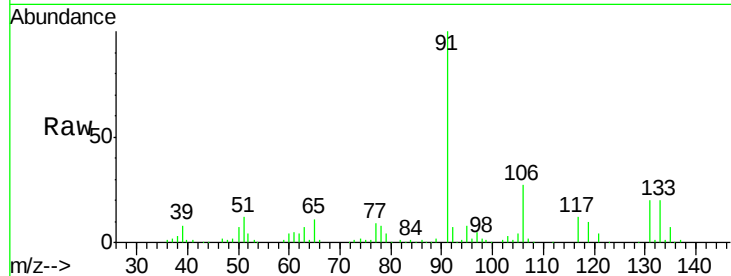




#67
Ethyl Benzene
Concen: 20.380 ug/l
RT: 12.53 min Scan# 1128
Delta R.T. 0.01 min
Lab File: VD062688.D
Acq: 13 Jun 2019 12:29

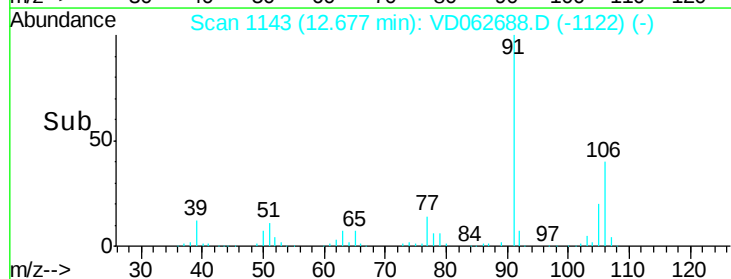
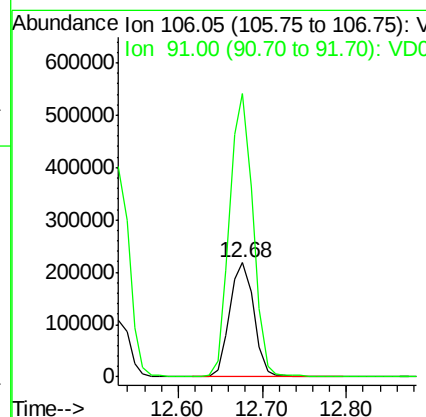
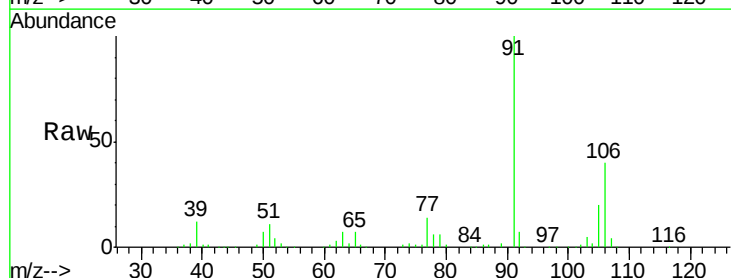
Instrument :
MSVOA_D
ClientSampleId :
VD0613SBS01

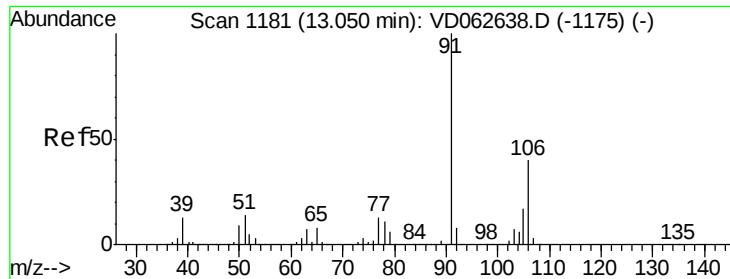
Tot Ion: 91 Resp: 624034
Ion Ratio Lower Upper
91 100
106 27.0 22.1 33.1



#68
m/p-Xylenes
Concen: 40.478 ug/l
RT: 12.68 min Scan# 1143
Delta R.T. 0.01 min
Lab File: VD062688.D
Acq: 13 Jun 2019 12:29

Tgt Ion: 106 Resp: 435722
Ion Ratio Lower Upper
106 100
91 247.6 180.2 270.4

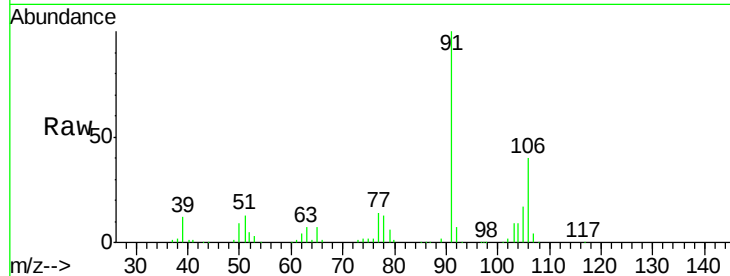




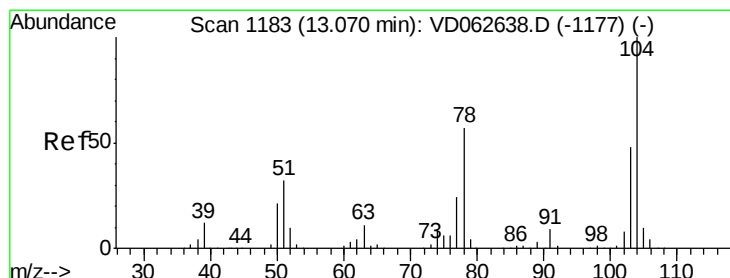
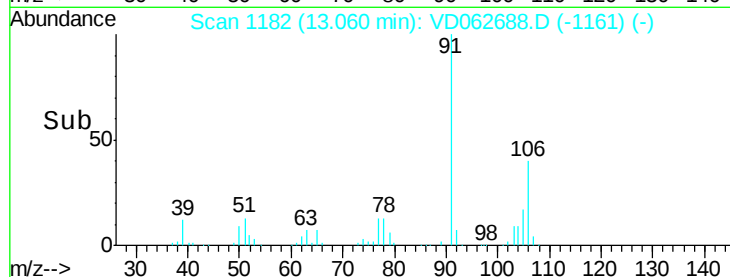
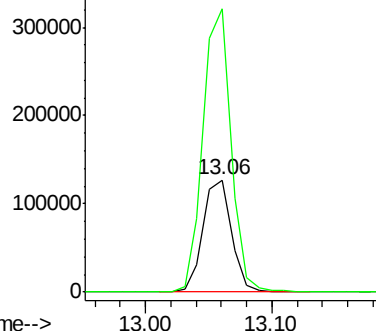
#69
o-Xylene
Concen: 20.201 ug/l
RT: 13.06 min Scan# 1182
Delta R.T. 0.01 min
Lab File: VD062688.D
Acq: 13 Jun 2019 12:29

Instrument :
MSVOA_D
ClientSampleId :
VD0613SBS01

Tot Ion:106 Resp: 199710
Ion Ratio Lower Upper
106 100
91 252.4 124.1 372.1

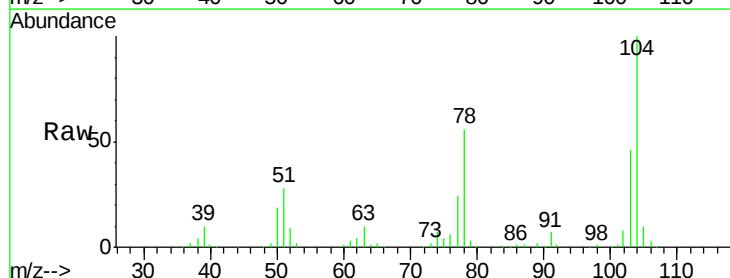


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

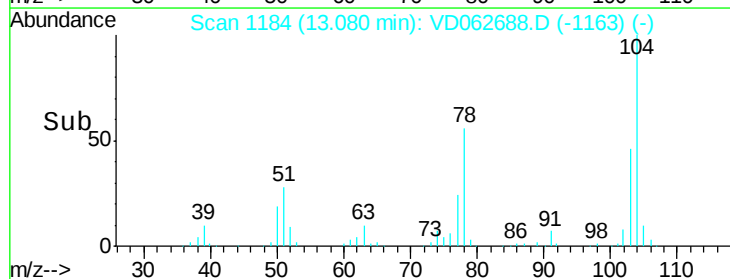
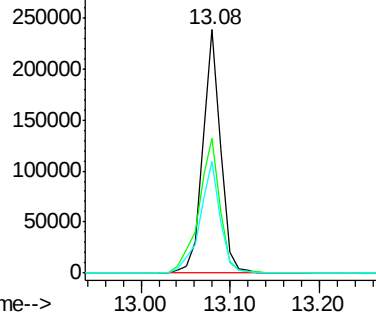


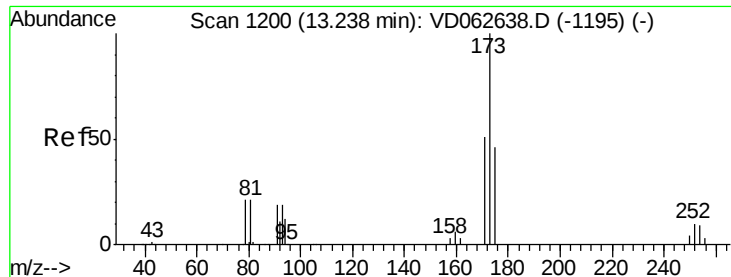
#70
Styrene
Concen: 19.141 ug/l
RT: 13.08 min Scan# 1184
Delta R.T. 0.01 min
Lab File: VD062688.D
Acq: 13 Jun 2019 12:29

Tgt Ion:104 Resp: 337635
Ion Ratio Lower Upper
104 100
78 55.6 45.9 68.9
103 45.9 38.4 57.6



Abundance Ion 104.05 (103.75 to 104.75): V
Ion 77.95 (77.65 to 78.65): VDC
Ion 103.05 (102.75 to 103.75): V





#71

Bromoform

Concen: 20.604 ug/l

RT: 13.24 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

Instrument :

MSVOA_D

ClientSampleId :

VD0613SBS01

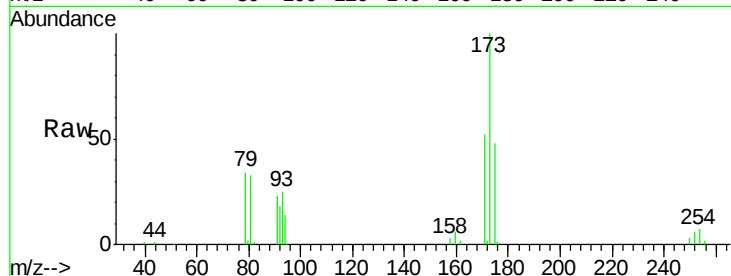
Tot Ion:173 Resp: 119036

Ion Ratio Lower Upper

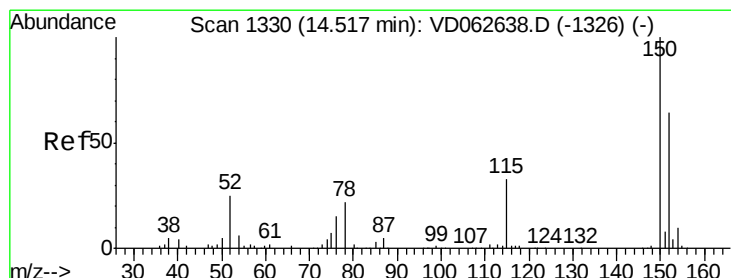
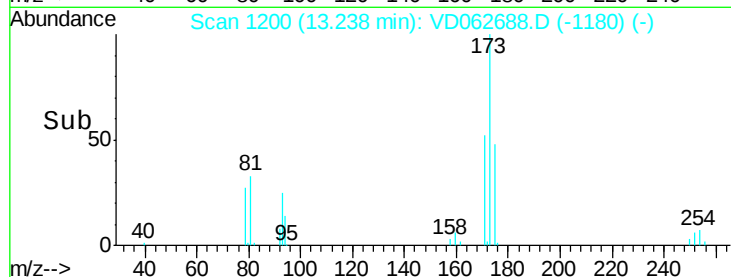
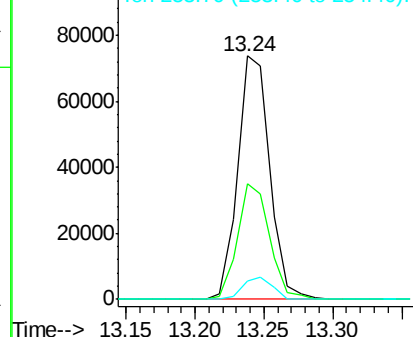
173 100

175 47.7 22.9 68.7

254 7.3 7.0 10.4



Abundance Ion 172.80 (172.50 to 173.50): V
Ion 174.80 (174.50 to 175.50): V
Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.53 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

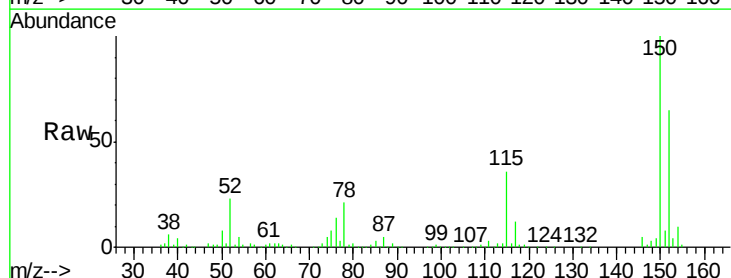
Tgt Ion:152 Resp: 456014

Ion Ratio Lower Upper

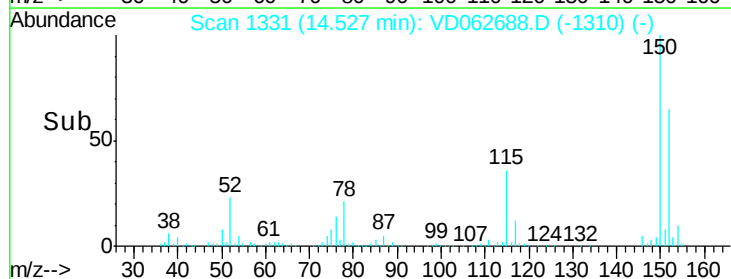
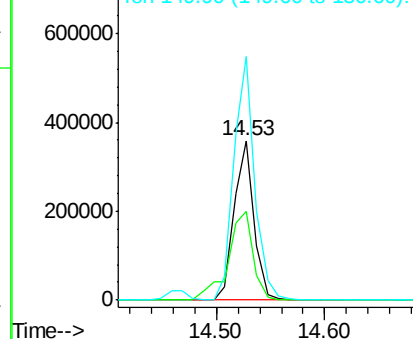
152 100

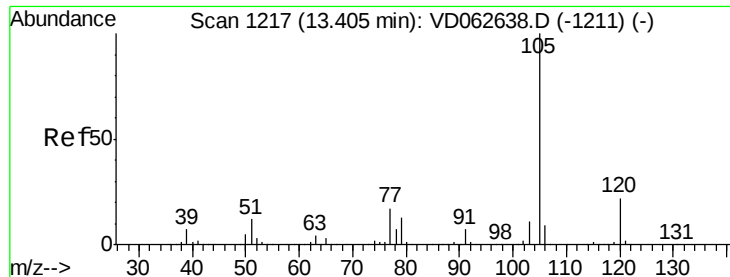
115 55.4 30.1 90.5

150 152.7 0.0 314.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.175 ug/l

RT: 13.41 min Scan# 1217

Delta R.T. 0.00 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

Instrument :

MSVOA_D

ClientSampleId :

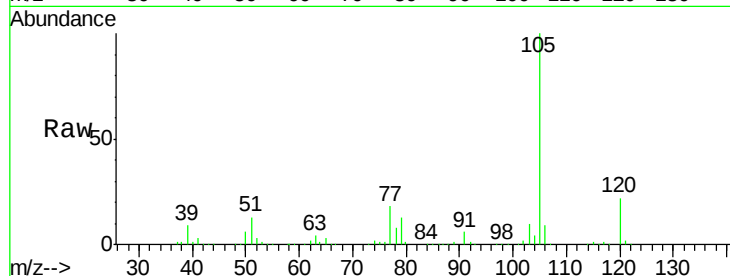
VD0613SBS01

Tot Ion:105 Resp: 680594

Ion Ratio Lower Upper

105 100

120 21.8 10.9 32.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

13.41

400000

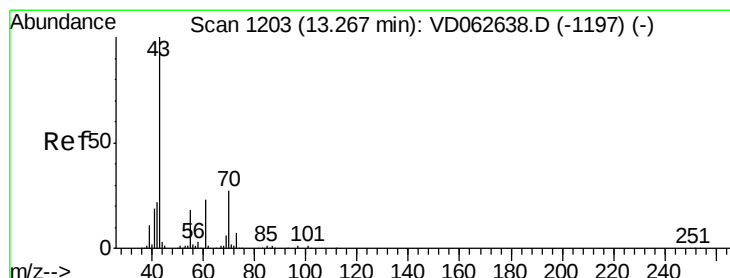
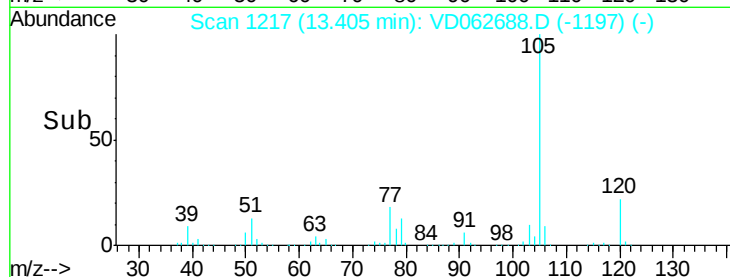
300000

200000

100000

0

Time--> 13.30 13.40 13.50



#74

N-ethyl acetate

Concen: 19.832 ug/l

RT: 13.27 min Scan# 1203

Delta R.T. 0.00 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

Tgt Ion: 43 Resp: 172275

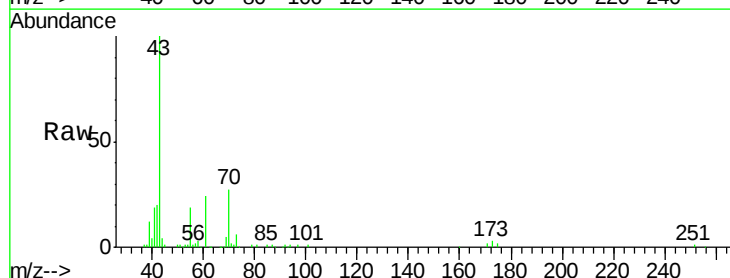
Ion Ratio Lower Upper

43 100

70 27.0 21.8 32.8

55 18.8 14.6 21.8

61 24.0 18.4 27.6



Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V

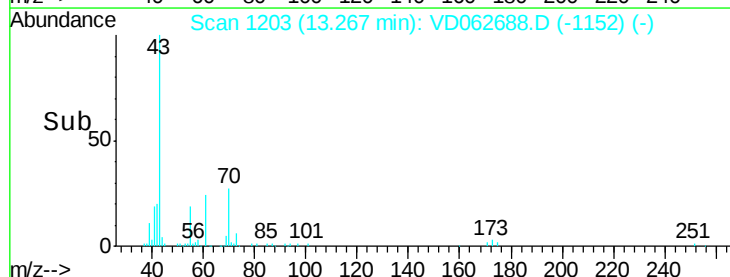
150000

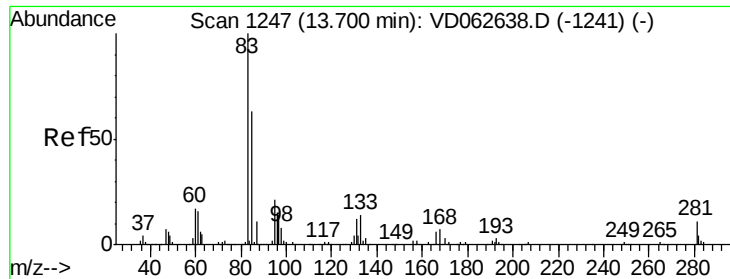
100000

50000

0

Time--> 13.20 13.30





#75

1,1,2,2-Tetrachloroethane

Concen: 19.824 ug/l

RT: 13.71 min Scan# 1248

Delta R.T. 0.01 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

Instrument :

MSVOA_D

ClientSampleId :

VD0613SBS01

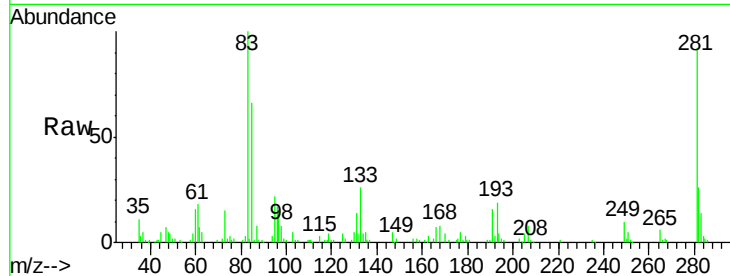
Tot Ion: 83 Resp: 109025

Ion Ratio Lower Upper

83 100

131 13.8 5.9 17.7

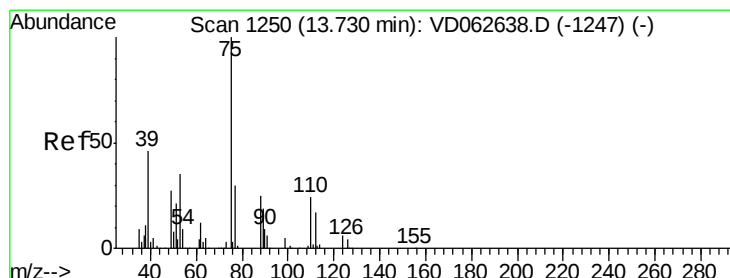
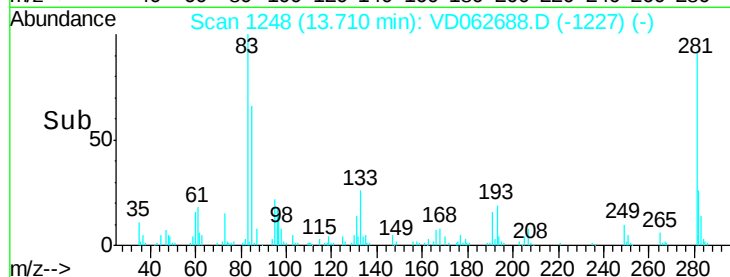
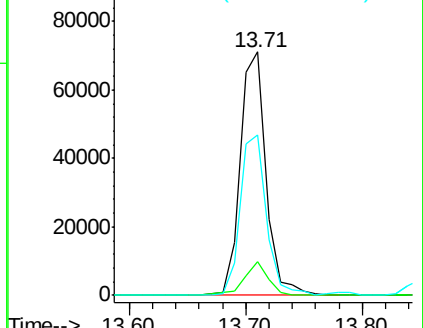
85 65.8 31.3 93.9



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: 19.989 ug/l

RT: 13.74 min Scan# 1251

Delta R.T. 0.01 min

Lab File: VD062688.D

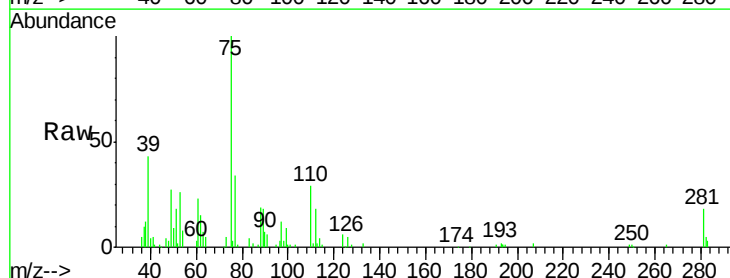
Acq: 13 Jun 2019 12:29

Tgt Ion: 75 Resp: 123592

Ion Ratio Lower Upper

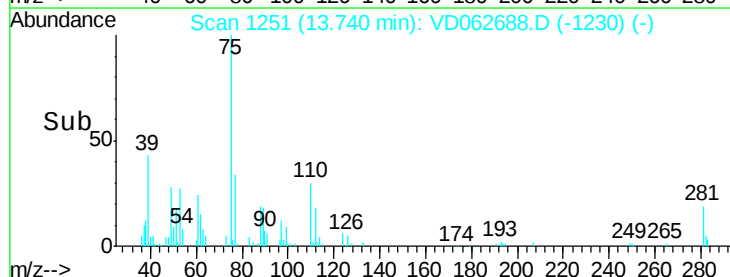
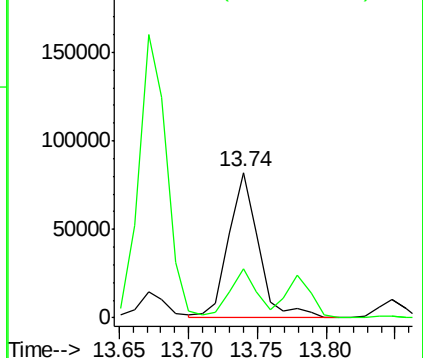
75 100

77 34.0 16.2 48.6



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 18.490 ug/l

RT: 13.68 min Scan# 1245

Delta R.T. 0.01 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

Instrument :

MSVOA_D

ClientSampleId :

VD0613SBS01

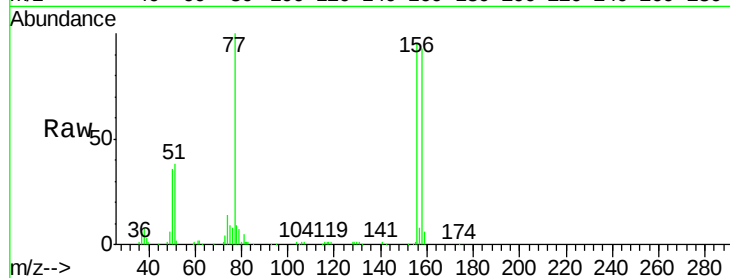
Tot Ion:156 Resp: 169860

Ion Ratio Lower Upper

156 100

77 105.3 56.3 168.8

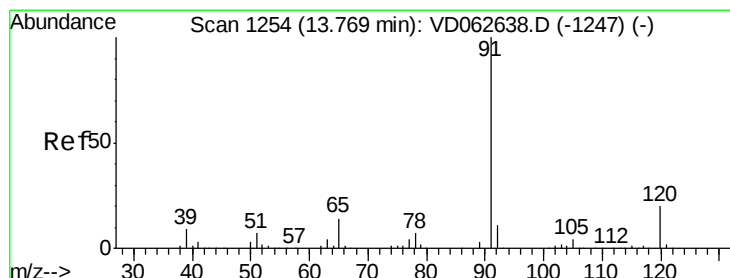
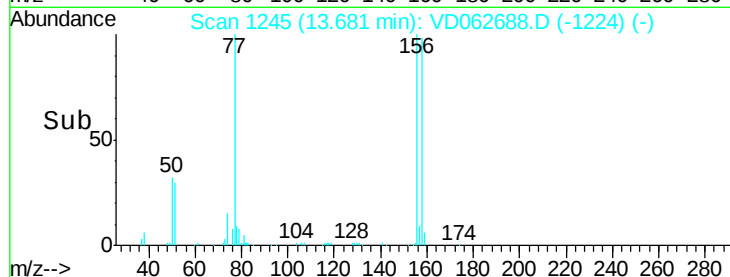
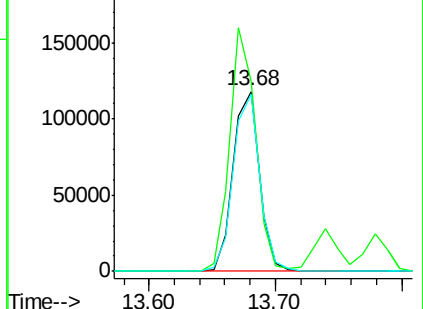
158 98.2 49.6 148.8



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: 19.137 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. 0.01 min

Lab File: VD062688.D

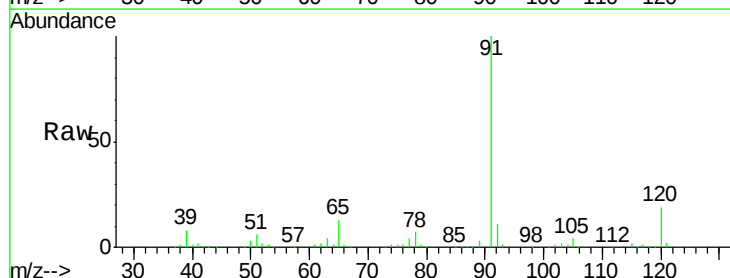
Acq: 13 Jun 2019 12:29

Tgt Ion: 91 Resp: 752915

Ion Ratio Lower Upper

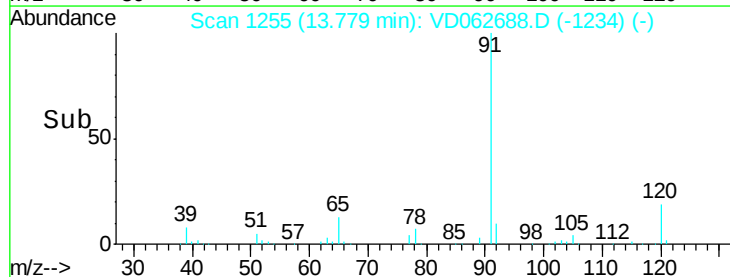
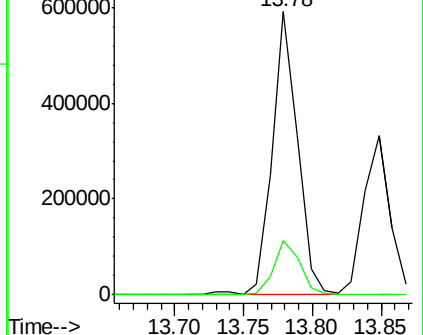
91 100

120 19.4 9.8 29.5



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 18.982 ug/l

RT: 13.85 min Scan# 1262

Delta R.T. 0.01 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

Instrument :

MSVOA_D

ClientSampleId :

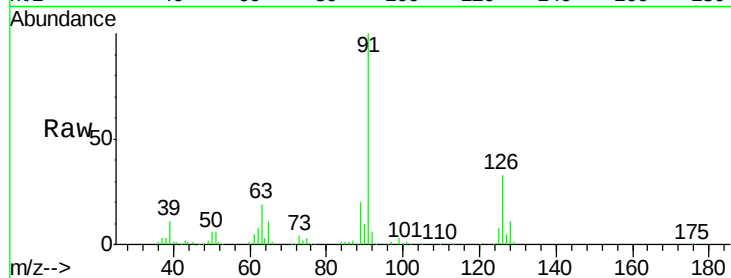
VD0613SBS01

Tot Ion: 91 Resp: 437280

Ion Ratio Lower Upper

91 100

126 33.1 15.8 47.4



Abundance Ion 91.00 (90.70 to 91.70): VD062688.D (-1258) (-)

Ion 125.95 (125.65 to 126.65): VD062688.D (-1258) (-)

600000

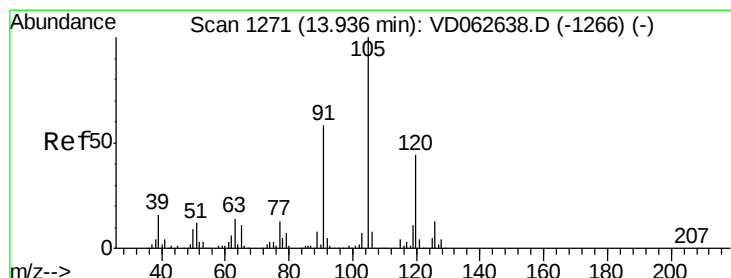
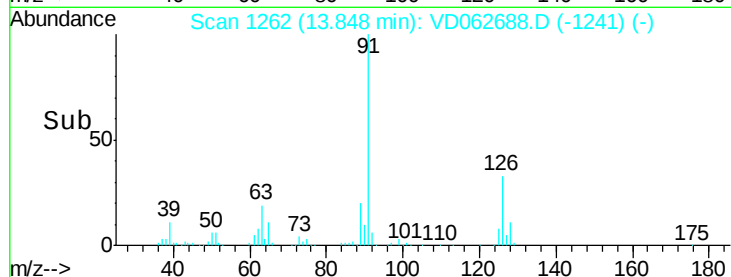
400000

200000

0

13.80 13.85 13.90

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 21.005 ug/l

RT: 13.94 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VD062688.D

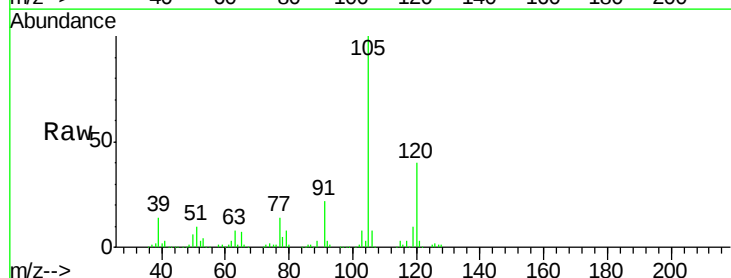
Acq: 13 Jun 2019 12:29

Tgt Ion: 105 Resp: 596677

Ion Ratio Lower Upper

105 100

120 40.1 22.1 66.5



Abundance Ion 105.05 (104.75 to 105.75): VD062688.D (-1266) (-)

Ion 120.05 (119.75 to 120.75): VD062688.D (-1266) (-)

500000

400000

300000

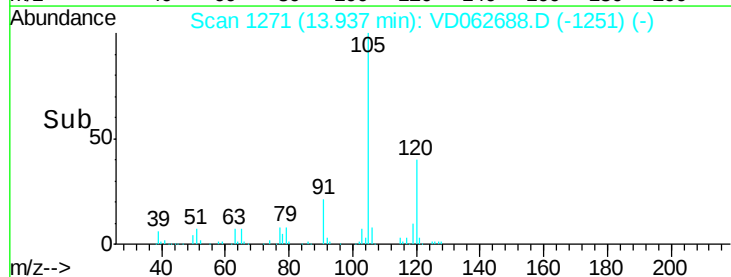
200000

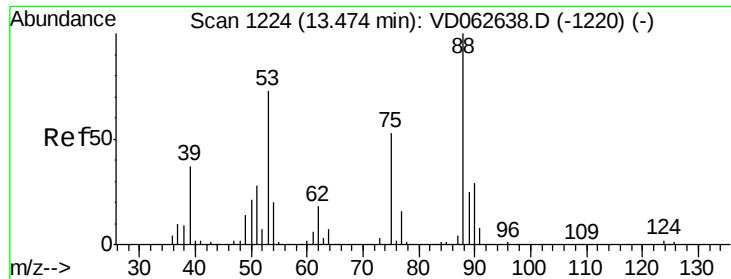
100000

0

13.90 13.94 14.00

Time-->

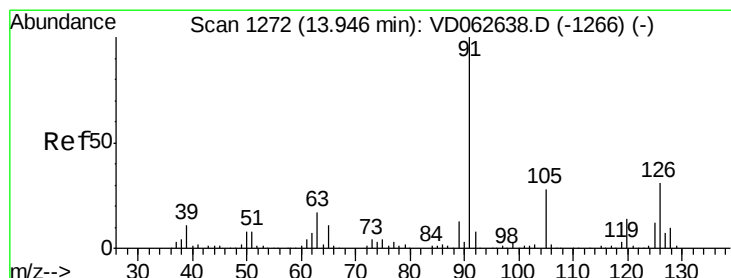
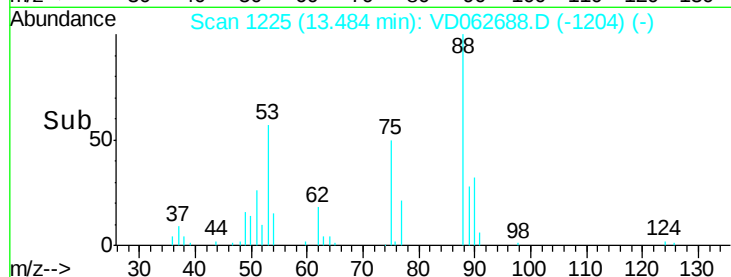
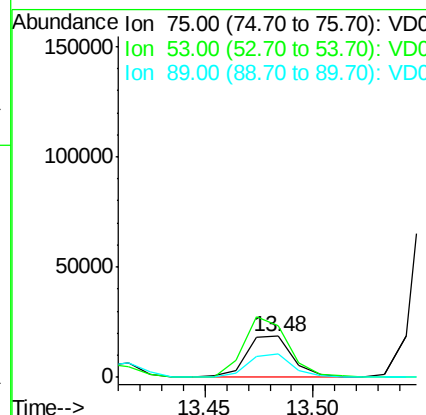
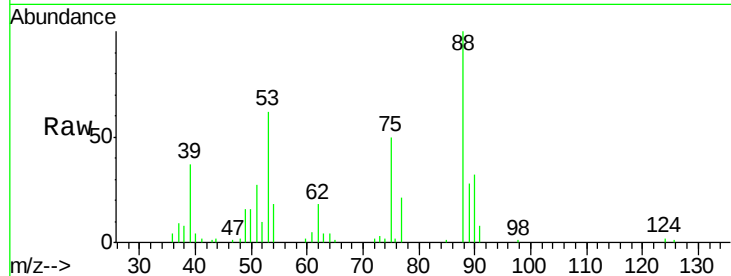




#81
trans-1,4-Dichloro-2-butene
Concen: 17.972 ug/l
RT: 13.48 min Scan# 1225
Delta R.T. 0.01 min
Lab File: VD062688.D
Acq: 13 Jun 2019 12:29

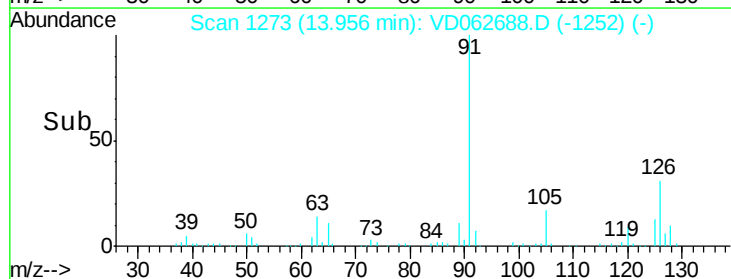
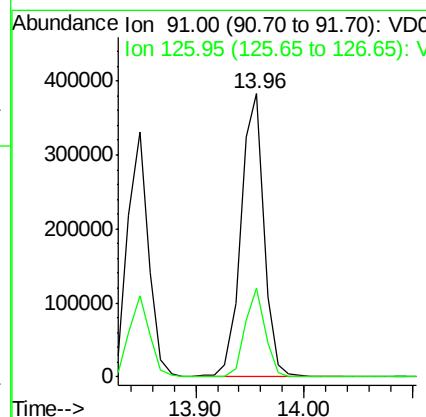
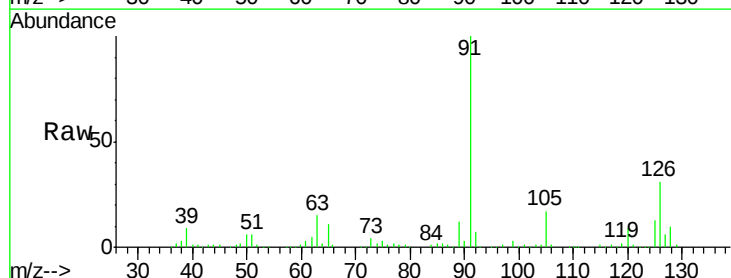
Instrument :
MSVOA_D
ClientSampleId :
VD0613SBS01

Tot Ion: 75 Resp: 27994
Ion Ratio Lower Upper
75 100
53 124.3 109.4 164.2
89 56.8 37.0 55.6#



#82
4-Chlorotoluene
Concen: 20.502 ug/l
RT: 13.96 min Scan# 1273
Delta R.T. 0.01 min
Lab File: VD062688.D
Acq: 13 Jun 2019 12:29

Tgt Ion: 91 Resp: 564800
Ion Ratio Lower Upper
91 100
126 31.3 15.6 46.8

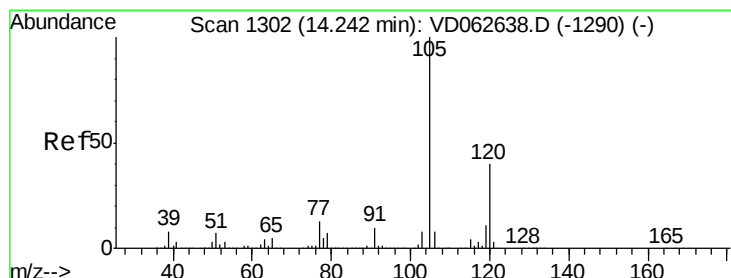
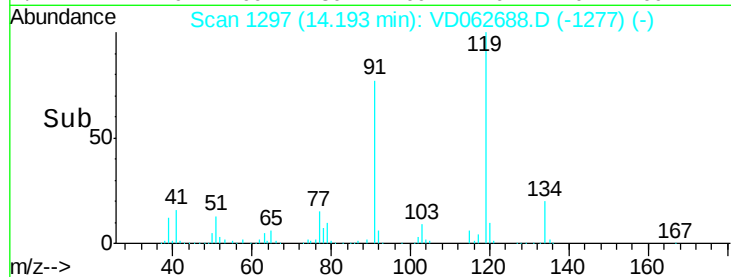
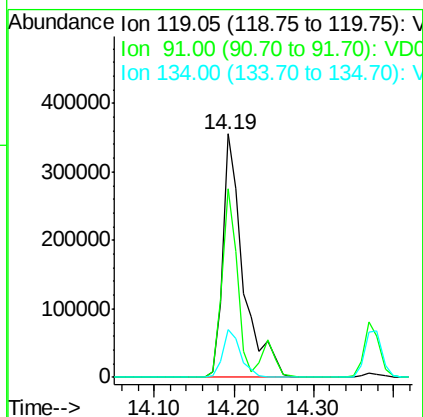
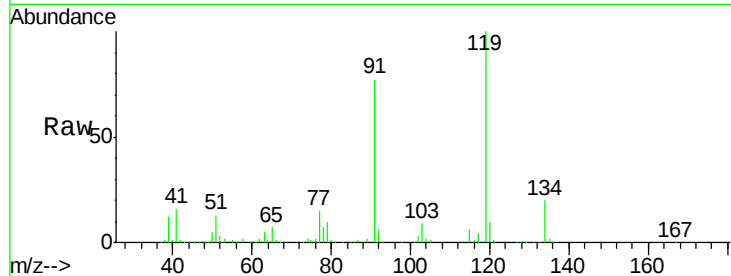




#83
 tert-Butylbenzene
 Concen: 20.432 ug/l
 RT: 14.19 min Scan# 1297
 Delta R.T. 0.00 min
 Lab File: VD062688.D
 Acq: 13 Jun 2019 12:29

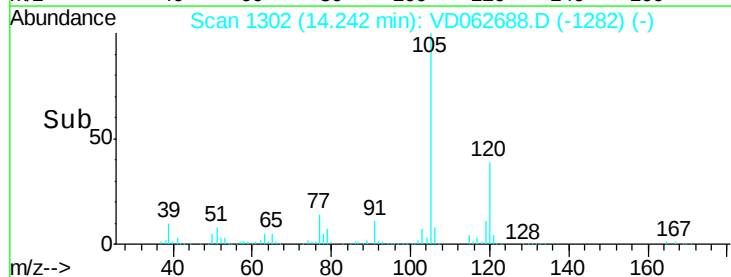
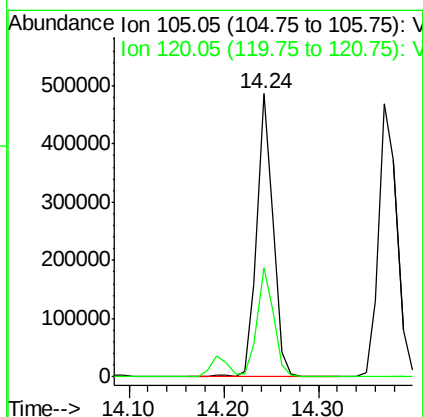
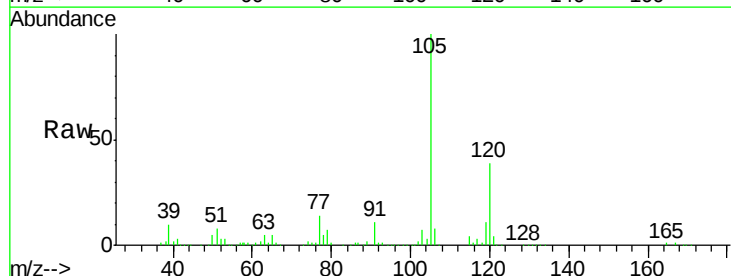
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0613SBS01

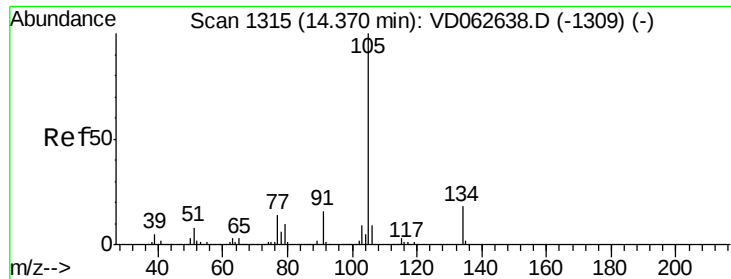
Tot Ion:119 Resp: 640171
 Ion Ratio Lower Upper
 119 100
 91 77.4 35.4 106.1
 134 19.8 10.8 32.3



#84
 1,2,4-Trimethylbenzene
 Concen: 20.730 ug/l
 RT: 14.24 min Scan# 1302
 Delta R.T. 0.00 min
 Lab File: VD062688.D
 Acq: 13 Jun 2019 12:29

Tgt Ion:105 Resp: 583040
 Ion Ratio Lower Upper
 105 100
 120 38.7 20.3 60.8

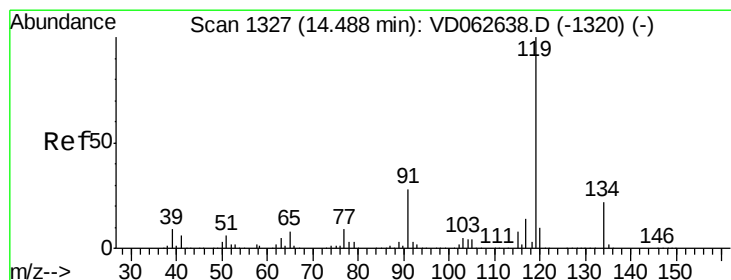
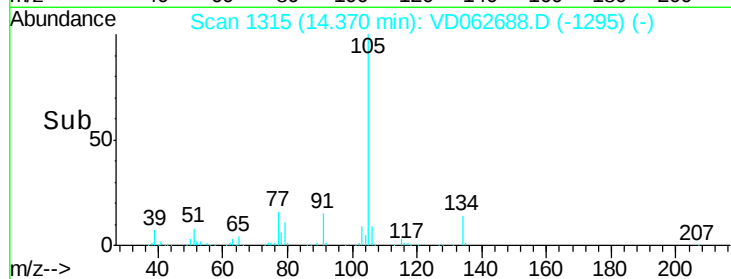
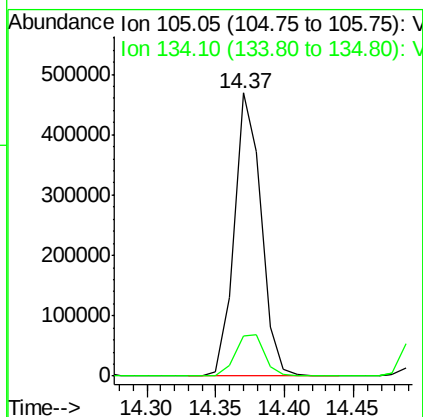
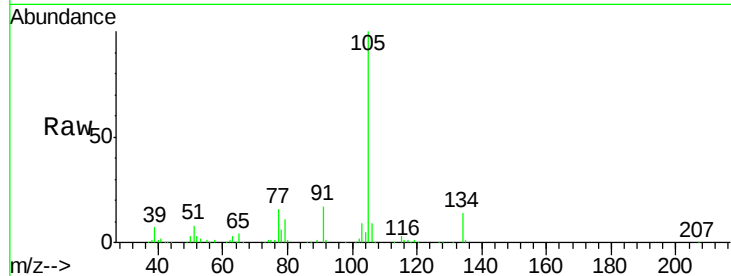




#85
 sec-Butylbenzene
 Concen: 19.334 ug/l
 RT: 14.37 min Scan# 1315
 Delta R.T. 0.00 min
 Lab File: VD062688.D
 Acq: 13 Jun 2019 12:29

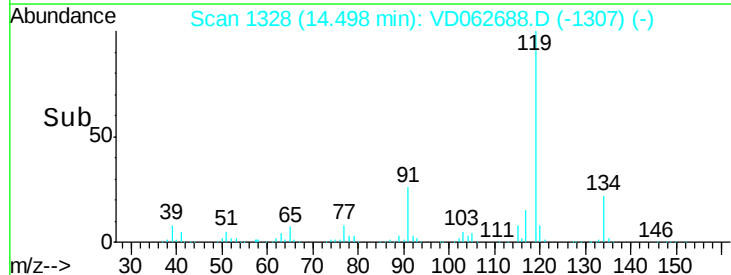
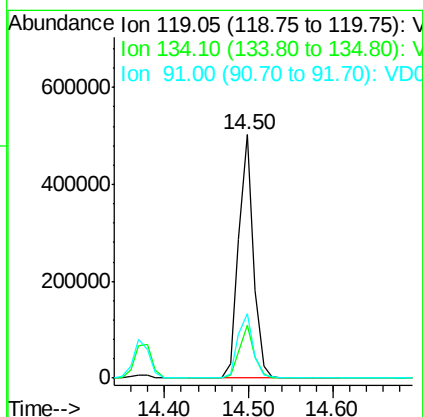
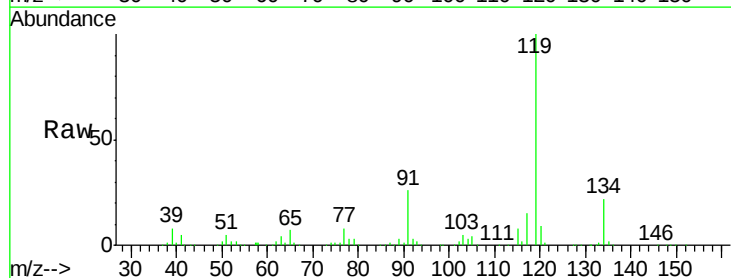
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0613SBS01

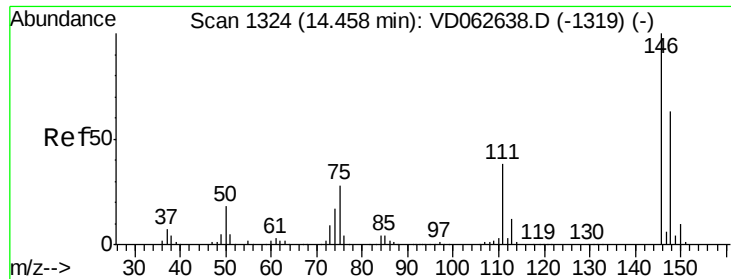
Tot Ion:105 Resp: 635196
 Ion Ratio Lower Upper
 105 100
 134 14.0 8.8 26.2



#86
 p-Isopropyltoluene
 Concen: 19.121 ug/l
 RT: 14.50 min Scan# 1328
 Delta R.T. 0.01 min
 Lab File: VD062688.D
 Acq: 13 Jun 2019 12:29

Tgt Ion:119 Resp: 611643
 Ion Ratio Lower Upper
 119 100
 134 21.8 10.9 32.6
 91 26.3 13.9 41.6

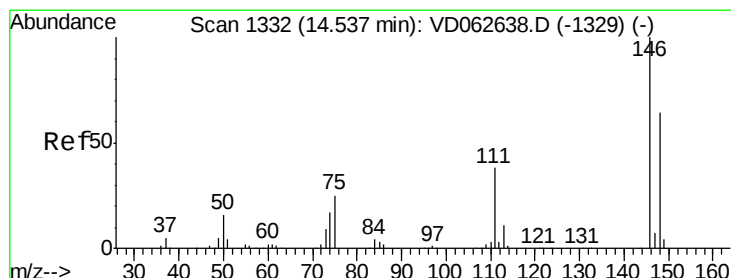
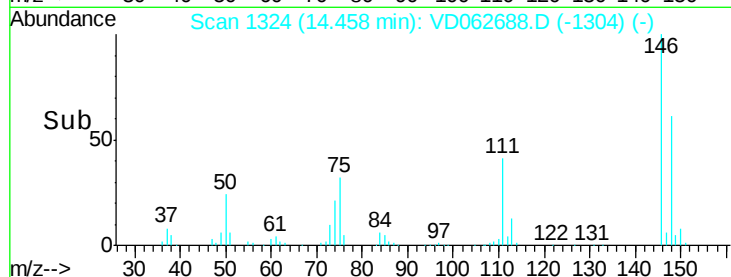
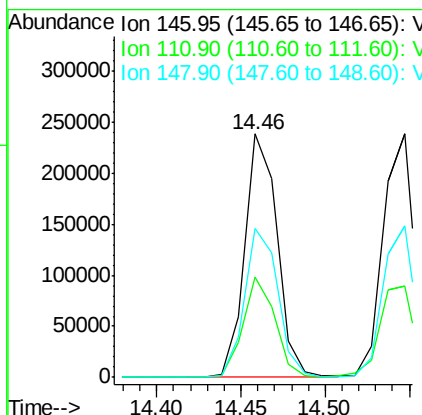
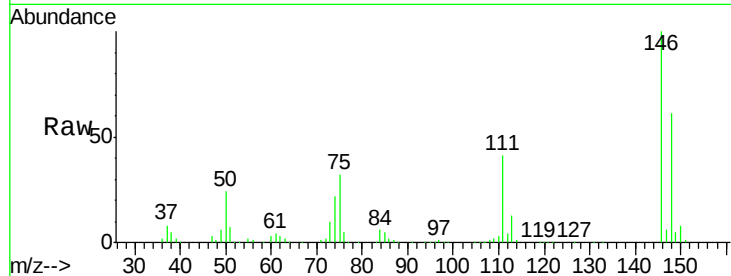




#87
 1,3-Dichlorobenzene
 Concen: 19.215 ug/l
 RT: 14.46 min Scan# 1324
 Delta R.T. 0.00 min
 Lab File: VD062688.D
 Acq: 13 Jun 2019 12:29

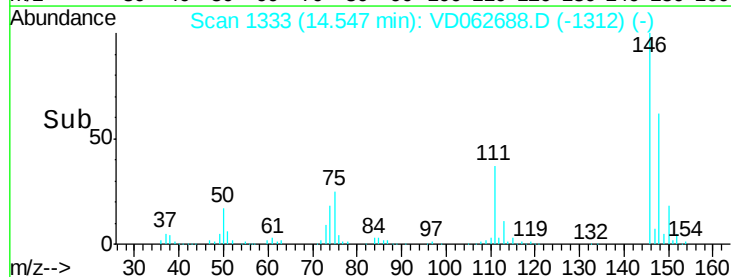
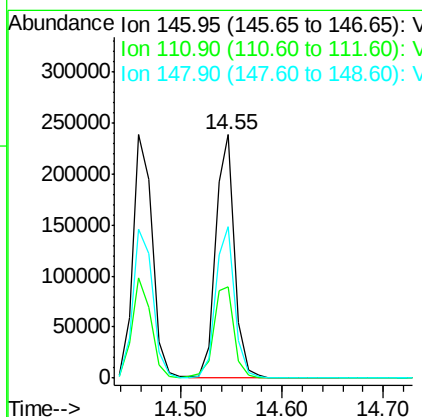
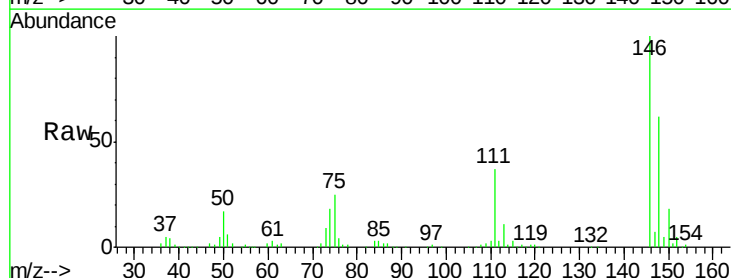
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0613SBS01

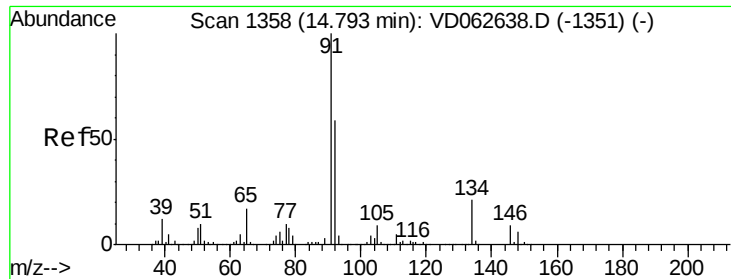
Tot Ion:146 Resp: 319783
 Ion Ratio Lower Upper
 146 100
 111 41.2 19.2 57.6
 148 61.1 31.6 95.0



#88
 1,4-Dichlorobenzene
 Concen: 19.990 ug/l
 RT: 14.55 min Scan# 1333
 Delta R.T. 0.01 min
 Lab File: VD062688.D
 Acq: 13 Jun 2019 12:29

Tgt Ion:146 Resp: 314409
 Ion Ratio Lower Upper
 146 100
 111 37.3 18.9 56.7
 148 62.4 32.3 96.8

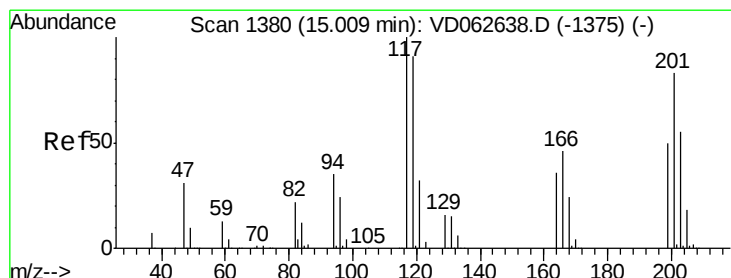
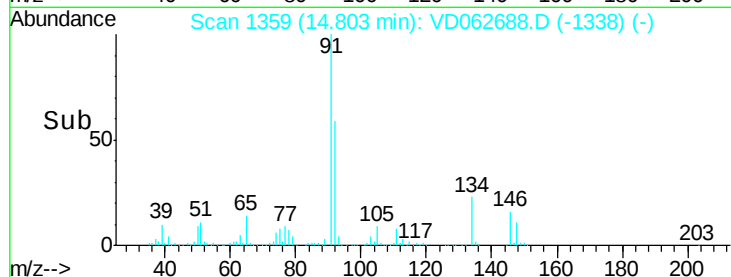
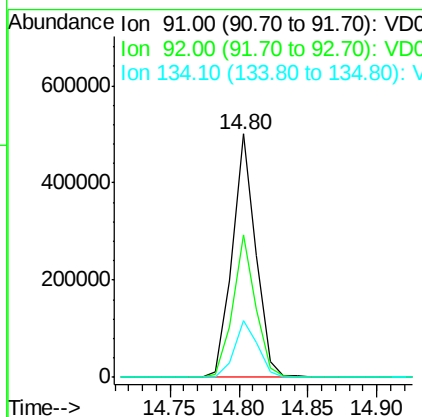
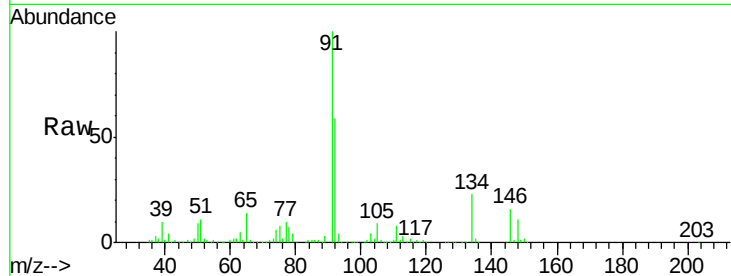




#89
n-Butylbenzene
Concen: 20.614 ug/l
RT: 14.80 min Scan# 1359
Delta R.T. 0.01 min
Lab File: VD062688.D
Acq: 13 Jun 2019 12:29

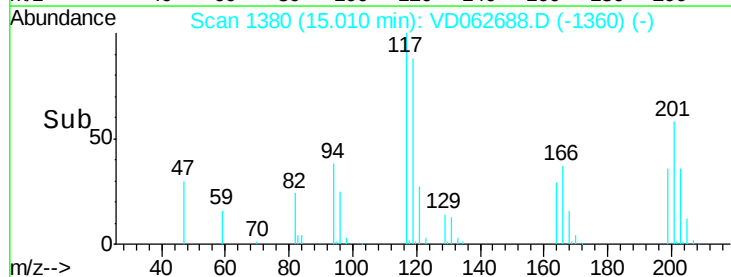
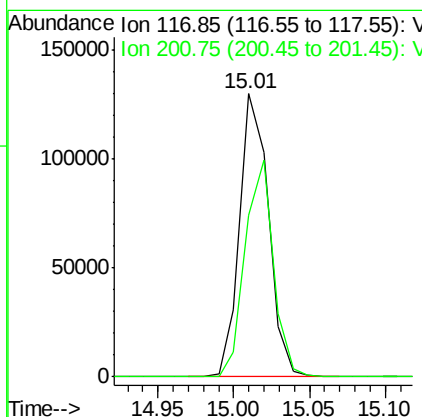
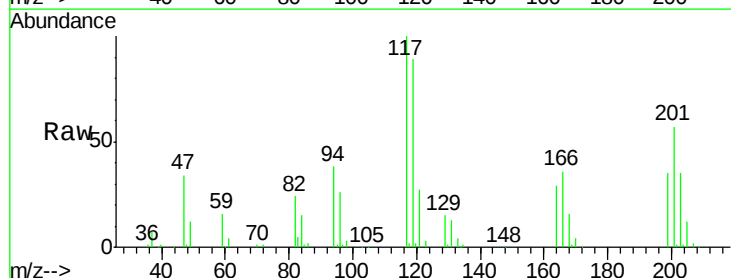
Instrument :
MSVOA_D
ClientSampleId :
VD0613SBS01

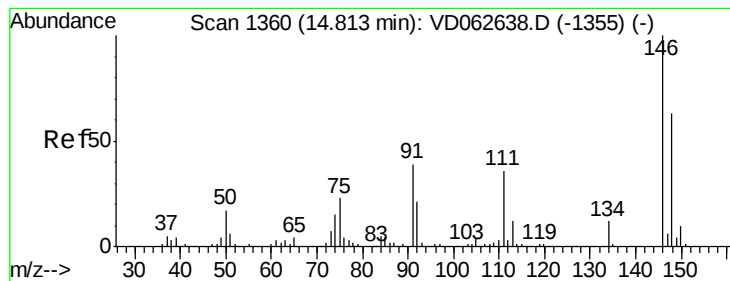
Tot Ion: 91 Resp: 593218
Ion Ratio Lower Upper
91 100
92 58.6 29.4 88.3
134 23.3 10.4 31.2



#90
Hexachloroethane
Concen: 20.375 ug/l
RT: 15.01 min Scan# 1380
Delta R.T. 0.00 min
Lab File: VD062688.D
Acq: 13 Jun 2019 12:29

Tgt Ion: 117 Resp: 172061
Ion Ratio Lower Upper
117 100
201 57.0 41.5 124.6





#91

1,2-Dichlorobenzene

Concen: 20.400 ug/l

RT: 14.81 min Scan# 1360

Delta R.T. 0.00 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

Instrument :

MSVOA_D

ClientSampleId :

VD0613SBS01

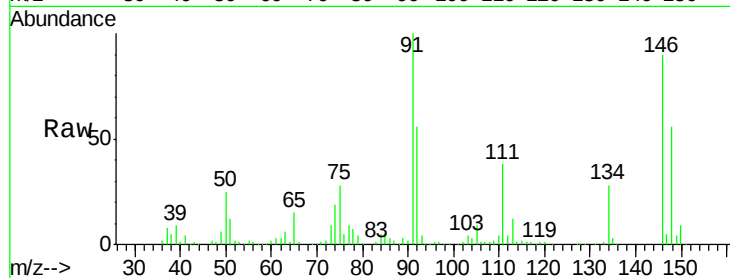
Tot Ion:146 Resp: 282225

Ion Ratio Lower Upper

146 100

111 42.0 18.1 54.3

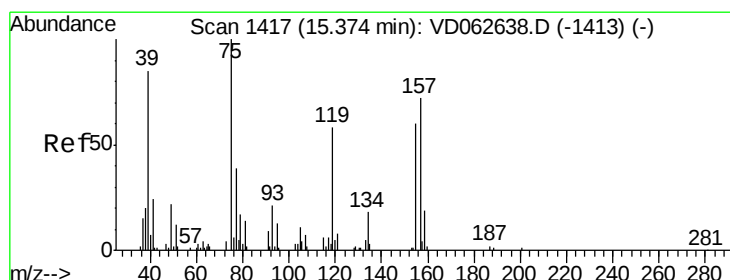
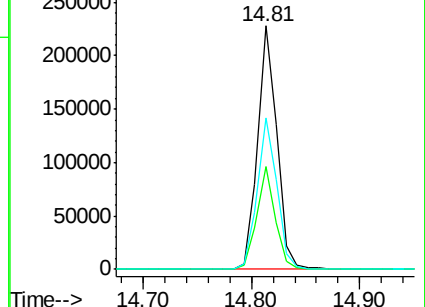
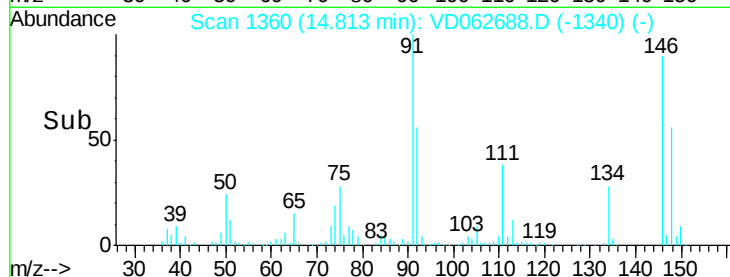
148 62.0 31.4 94.0



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: 18.543 ug/l

RT: 15.38 min Scan# 1418

Delta R.T. 0.01 min

Lab File: VD062688.D

Acq: 13 Jun 2019 12:29

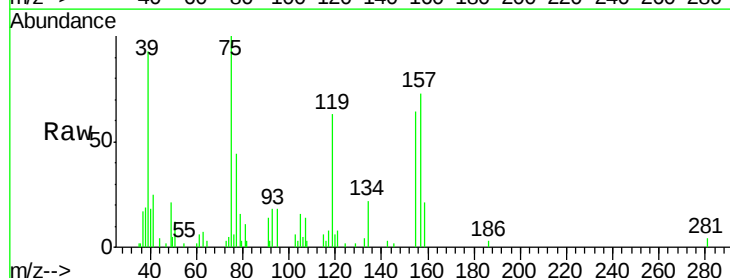
Tgt Ion: 75 Resp: 21784

Ion Ratio Lower Upper

75 100

155 63.8 30.1 90.5

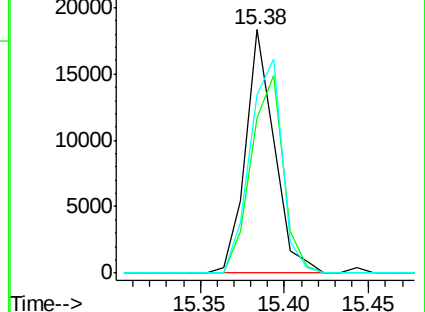
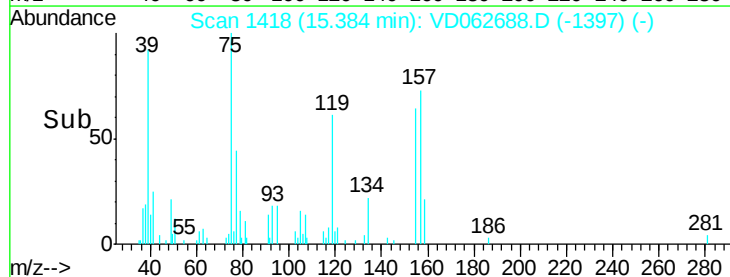
157 73.3 35.9 107.8

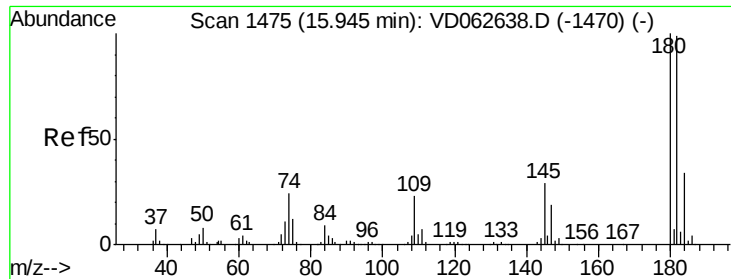


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V

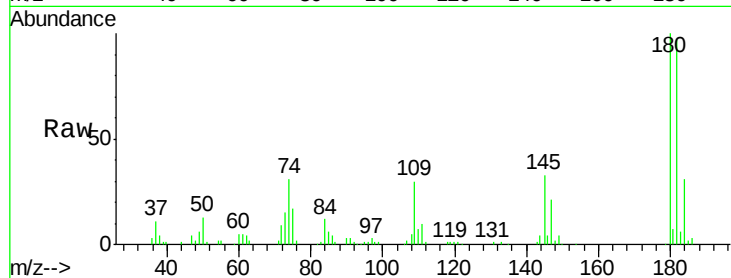




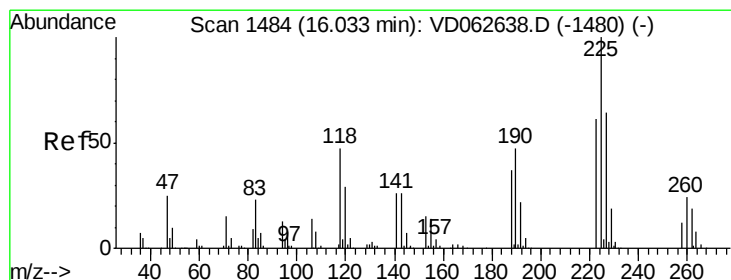
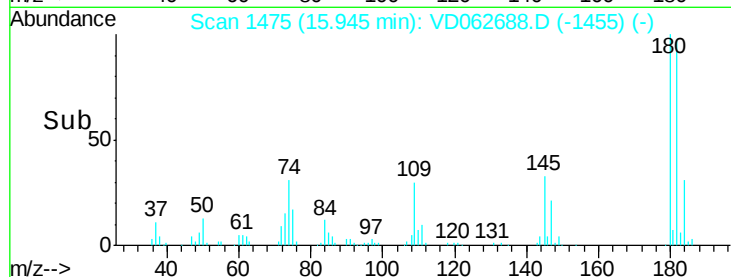
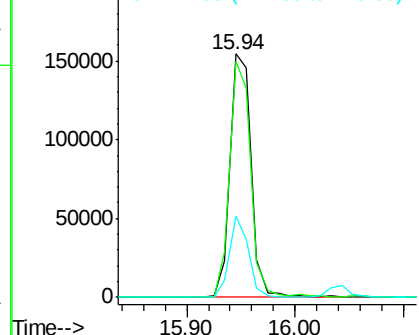
#93
 1,2,4-Trichlorobenzene
 Concen: 20.308 ug/l
 RT: 15.94 min Scan# 1475
 Delta R.T. 0.00 min
 Lab File: VD062688.D
 Acq: 13 Jun 2019 12:29

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0613SBS01

Tot Ion:180 Resp: 211549
 Ion Ratio Lower Upper
 180 100
 182 97.0 49.4 148.2
 145 33.2 14.5 43.6

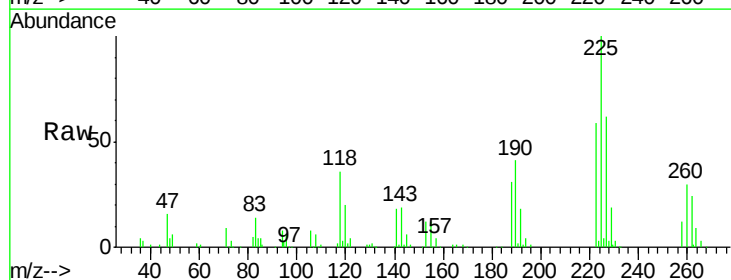


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

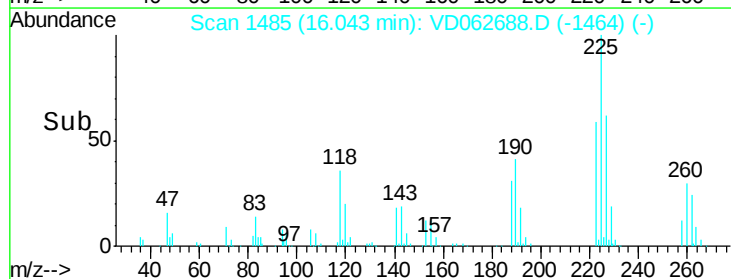
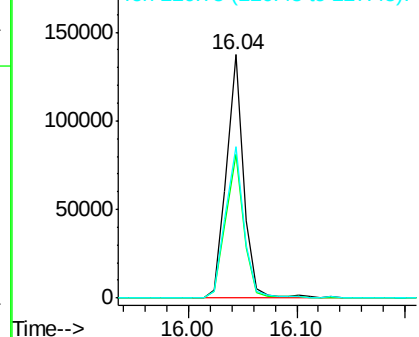


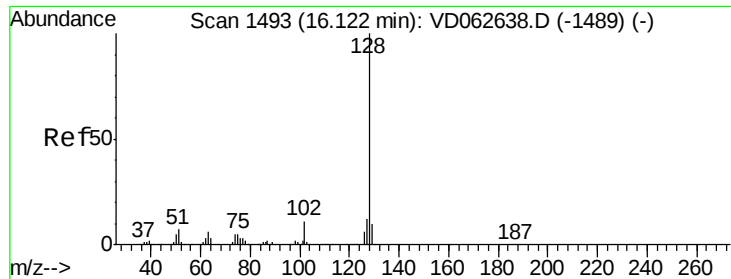
#94
 Hexachlorobutadiene
 Concen: 18.718 ug/l
 RT: 16.04 min Scan# 1485
 Delta R.T. 0.01 min
 Lab File: VD062688.D
 Acq: 13 Jun 2019 12:29

Tgt Ion:225 Resp: 152890
 Ion Ratio Lower Upper
 225 100
 223 59.1 30.3 91.0
 227 62.4 31.8 95.4



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

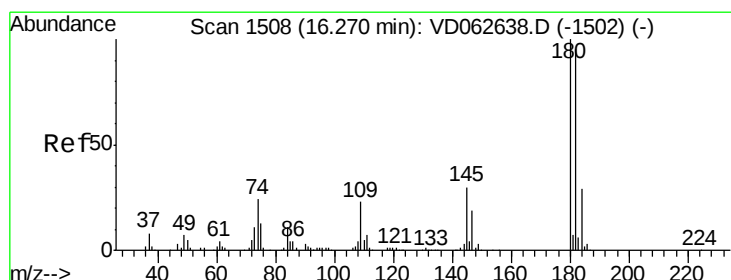
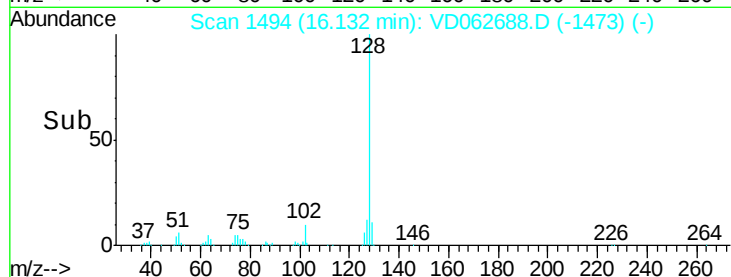
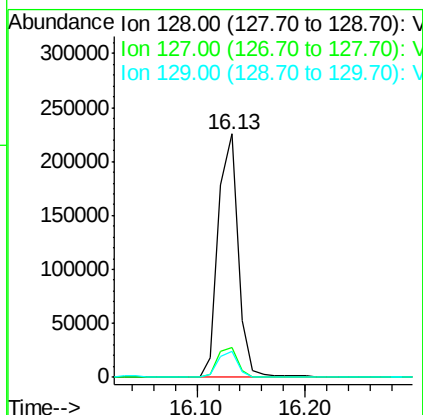
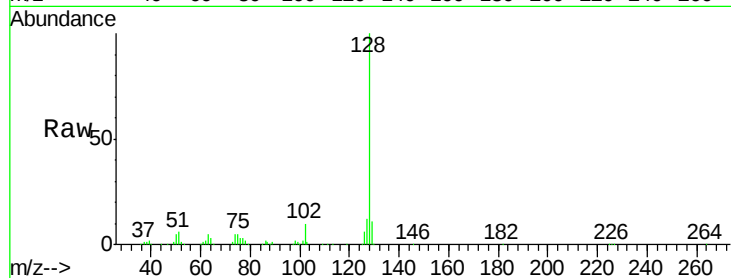




#95
Naphthalene
Concen: 19.772 ug/l
RT: 16.13 min Scan# 1494
Delta R.T. 0.01 min
Lab File: VD062688.D
Acq: 13 Jun 2019 12:29

Instrument :
MSVOA_D
ClientSampleId :
VD0613SBS01

Tot Ion:128 Resp: 290093
Ion Ratio Lower Upper
128 100
127 12.4 9.7 14.5
129 10.6 8.1 12.1



#96
1,2,3-Trichlorobenzene
Concen: 20.117 ug/l
RT: 16.28 min Scan# 1509
Delta R.T. 0.01 min
Lab File: VD062688.D
Acq: 13 Jun 2019 12:29

Tgt Ion:180 Resp: 160305
Ion Ratio Lower Upper
180 100
182 94.0 47.7 143.1
145 27.9 15.0 45.0

