

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD070119\
 Data File : VD062983.D
 Acq On : 1 Jul 2019 12:03
 Operator : VA/AP
 Sample : VD0701SBSD01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0701SBSD01

Quant Time: Jul 02 07:33:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 01:50:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	869974	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.21	114	1148750	50.00	ug/l	-0.01
63) Chlorobenzene-d5	12.36	117	1019010	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	553595	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.44	65	471754	49.89	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	99.78%	
35) Dibromofluoromethane	6.91	113	476946	49.24	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	98.48%	
50) Toluene-d8	10.40	98	1062672	50.41	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	100.82%	
62) 4-Bromofluorobenzene	13.55	95	446233	46.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.10%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.56	85	229661	20.400	ug/l	90
3) Chloromethane	1.74	50	169228	19.988	ug/l	96
4) Vinyl Chloride	1.84	62	156765	18.675	ug/l	90
5) Bromomethane	2.13	94	62958	16.015	ug/l	91
6) Chloroethane	2.24	64	75966	19.988	ug/l #	80
7) Trichlorofluoromethane	2.51	101	361326	21.268	ug/l	95
8) Diethyl Ether	2.86	74	49687	23.018	ug/l	80
9) 1,1,2-Trichlorotrifluoroet	3.13	101	185711	20.178	ug/l	86
10) Methyl Iodide	3.28	142	214805	17.690	ug/l	98
11) Tert butyl alcohol	4.08	59	49246	114.341	ug/l #	93
12) 1,1-Dichloroethene	3.11	96	144347	20.907	ug/l	95
13) Acrolein	3.02	56	30307	68.929	ug/l	94
14) Allyl chloride	3.60	41	208012	20.389	ug/l	91
15) Acrylonitrile	4.18	53	102521	101.304	ug/l #	90
16) Acetone	3.22	43	184426	91.742	ug/l	94
17) Carbon Disulfide	3.35	76	413761	18.751	ug/l	98
18) Methyl Acetate	3.63	43	81182	28.438	ug/l	98
19) Methyl tert-butyl Ether	4.23	73	320612	21.450	ug/l	100
20) Methylene Chloride	3.80	84	155601	21.576	ug/l	90
21) trans-1,2-Dichloroethene	4.19	96	153171	20.835	ug/l #	93
22) Diisopropyl ether	5.11	45	436732	21.050	ug/l	98
23) Vinyl Acetate	5.04	43	1284962	98.976	ug/l	97
24) 1,1-Dichloroethane	4.96	63	281904	20.869	ug/l	98
25) 2-Butanone	6.06	43	184777	104.473	ug/l	100
26) 2,2-Dichloropropane	6.01	77	297707	20.793	ug/l	97
27) cis-1,2-Dichloroethene	6.02	96	154424	19.863	ug/l	85
28) Bromochloromethane	6.41	49	97894	20.576	ug/l	81
29) Tetrahydrofuran	6.44	42	85869	102.614	ug/l	97
30) Chloroform	6.65	83	355528	21.642	ug/l	94
31) Cyclohexane	6.94	56	171560	19.319	ug/l	89
32) 1,1,1-Trichloroethane	6.86	97	355725	20.789	ug/l	93
36) 1,1-Dichloropropene	7.13	75	222494	20.460	ug/l	93
37) Ethyl Acetate	6.17	43	95820	20.322	ug/l	96
38) Carbon Tetrachloride	7.09	117	328561	20.089	ug/l	98

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 01:50:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.86	83	200703	20.967	ug/l	95
40) Benzene	7.44	78	467374	21.411	ug/l	97
41) Methacrylonitrile	6.43	41	115106	20.071	ug/l #	92
42) 1,2-Dichloroethane	7.57	62	246172	20.673	ug/l	100
43) Isopropyl Acetate	9.23	43	125706	22.049	ug/l #	96
44) Trichloroethene	8.53	130	170794	19.958	ug/l	91
45) 1,2-Dichloropropane	8.93	63	109187	20.116	ug/l	95
46) Dibromomethane	9.06	93	98053	21.030	ug/l #	86
47) Bromodichloromethane	9.37	83	260871	21.543	ug/l	98
48) Methyl methacrylate	9.11	41	79595	19.646	ug/l	97
49) 1,4-Dioxane	9.08	88	14693	435.912	ug/l #	85
51) 4-Methyl-2-Pentanone	10.29	43	423221	104.704	ug/l	100
52) Toluene	10.50	92	279096	19.021	ug/l	85
53) t-1,3-Dichloropropene	10.91	75	218330	22.029	ug/l	97
54) cis-1,3-Dichloropropene	10.04	75	234979	21.813	ug/l	92
55) 1,1,2-Trichloroethane	11.19	97	98286	19.497	ug/l	88
56) Ethyl methacrylate	11.03	69	113517	21.071	ug/l	98
57) 1,3-Dichloropropane	11.41	76	165192	21.401	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.85	63	291716	105.472	ug/l	99
59) 2-Hexanone	11.53	43	297351	103.292	ug/l	99
60) Dibromochloromethane	11.68	129	203168	21.637	ug/l	95
61) 1,2-Dibromoethane	11.80	107	129513	21.753	ug/l	86
64) Tetrachloroethene	11.25	164	164005	19.555	ug/l	98
65) Chlorobenzene	12.40	112	357845	18.922	ug/l	99
66) 1,1,1,2-Tetrachloroethane	12.51	131	181120	20.479	ug/l	95
67) Ethyl Benzene	12.52	91	672341	19.802	ug/l	98
68) m/p-Xylenes	12.67	106	469693	39.718	ug/l	100
69) o-Xylene	13.05	106	223104	20.638	ug/l	94
70) Styrene	13.07	104	370571	19.516	ug/l	94
71) Bromoform	13.24	173	123748	20.422	ug/l	88
73) Isopropylbenzene	13.40	105	683131	19.246	ug/l	99
74) N-amyl acetate	13.27	43	184905	21.451	ug/l	98
75) 1,1,2,2-Tetrachloroethane	13.70	83	117283	20.279	ug/l	96
76) 1,2,3-Trichloropropane	13.73	75	122906	19.232	ug/l	96
77) Bromobenzene	13.67	156	183713	19.243	ug/l	94
78) n-propylbenzene	13.78	91	826579	20.007	ug/l	98
79) 2-Chlorotoluene	13.84	91	466867	19.774	ug/l	96
80) 1,3,5-Trimethylbenzene	13.94	105	580164	19.459	ug/l	97
81) trans-1,4-Dichloro-2-buten	13.47	75	30529	18.227	ug/l	88
82) 4-Chlorotoluene	13.95	91	566393	19.927	ug/l	99
83) tert-Butylbenzene	14.19	119	694680	20.903	ug/l	98
84) 1,2,4-Trimethylbenzene	14.24	105	604859	19.793	ug/l	99
85) sec-Butylbenzene	14.37	105	692976	19.185	ug/l	99
86) p-Isopropyltoluene	14.49	119	676236	20.465	ug/l	98
87) 1,3-Dichlorobenzene	14.46	146	326313	19.067	ug/l	99
88) 1,4-Dichlorobenzene	14.54	146	349840	20.352	ug/l	96
89) n-Butylbenzene	14.80	91	645099	20.858	ug/l	96
90) Hexachloroethane	15.01	117	177197	19.944	ug/l	93
91) 1,2-Dichlorobenzene	14.81	146	320157	21.865	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	15.38	75	21634	19.165	ug/l #	65

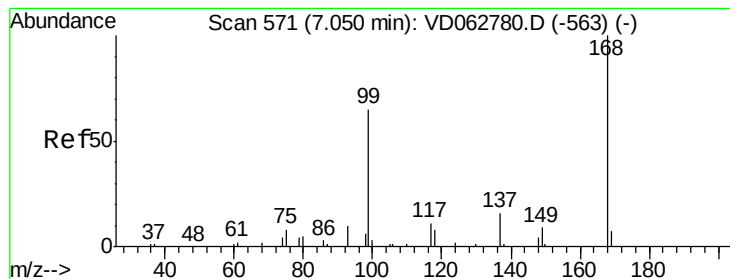
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD070119\
Data File : VD062983.D
Acq On : 1 Jul 2019 12:03
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
Quant Title : SW846 8260
QLast Update : Thu Jun 20 01:50:56 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	217864	19.047	ug/l	97
94) Hexachlorobutadiene	16.04	225	176959	20.251	ug/l	95
95) Naphthalene	16.12	128	319295	19.916	ug/l	100
96) 1,2,3-Trichlorobenzene	16.27	180	183778	20.911	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.01 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

Instrument :

MSVOA_D

ClientSampleId :

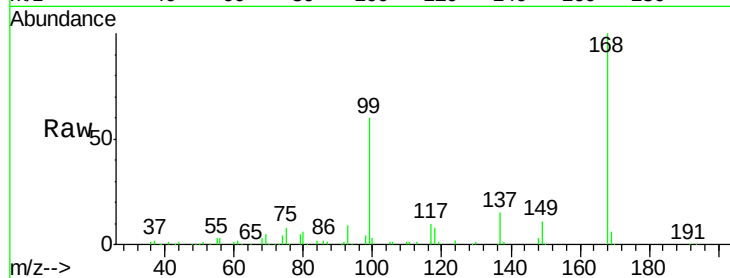
VD0701SBSD01

Tot Ion:168 Resp: 869974

Ion Ratio Lower Upper

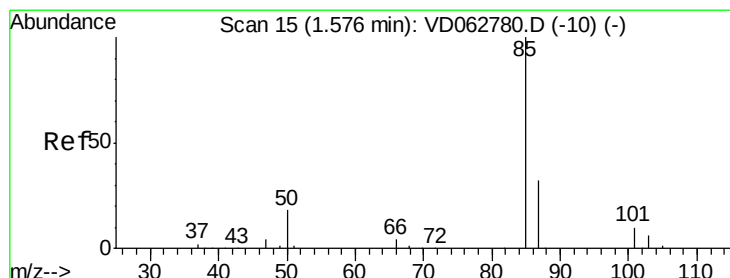
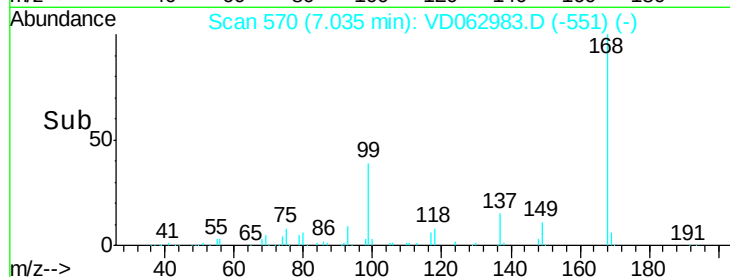
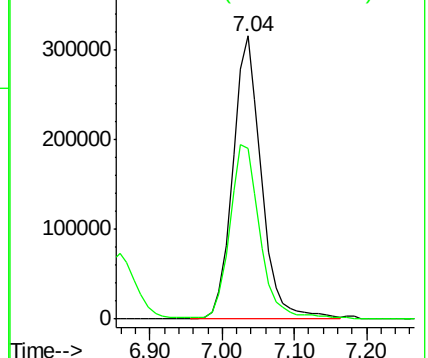
168 100

99 60.3 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 20.400 ug/l

RT: 1.56 min Scan# 14

Delta R.T. -0.01 min

Lab File: VD062983.D

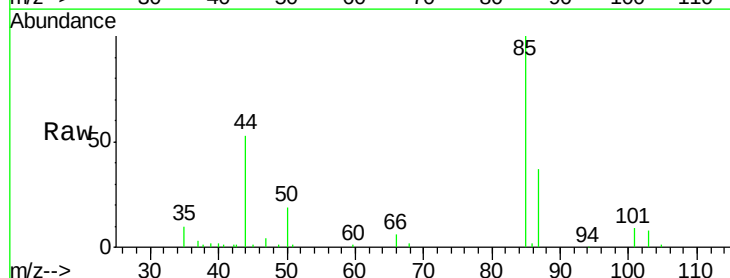
Acq: 1 Jul 2019 12:03

Tgt Ion: 85 Resp: 229661

Ion Ratio Lower Upper

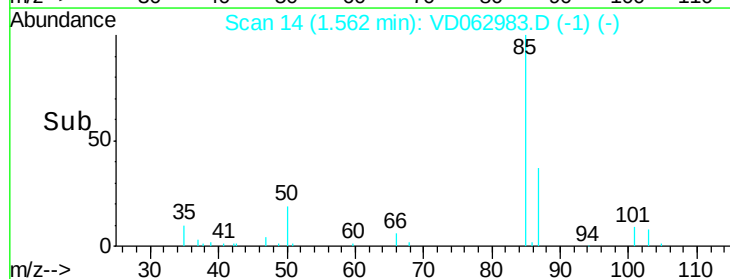
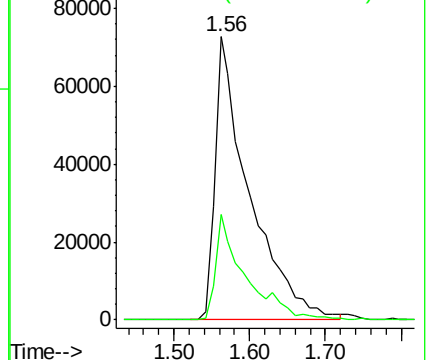
85 100

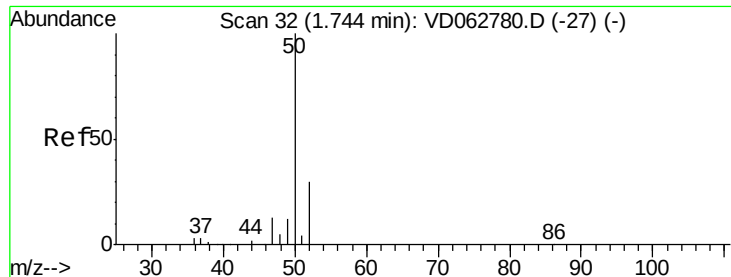
87 37.3 15.9 47.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 19.988 ug/l

RT: 1.74 min Scan# 32

Delta R.T. -0.00 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

Instrument :

MSVOA_D

ClientSampleId :

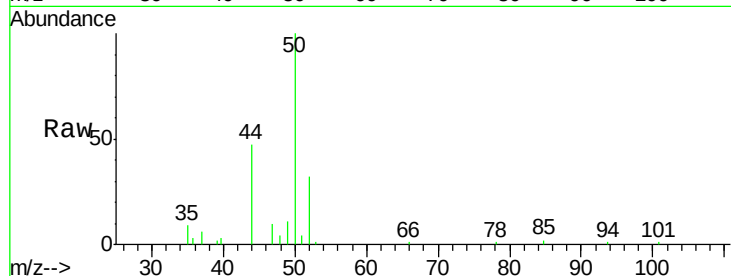
VD0701SBS01

Tot Ion: 50 Resp: 169228

Ion Ratio Lower Upper

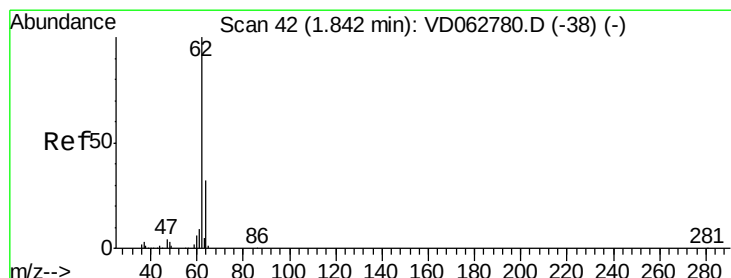
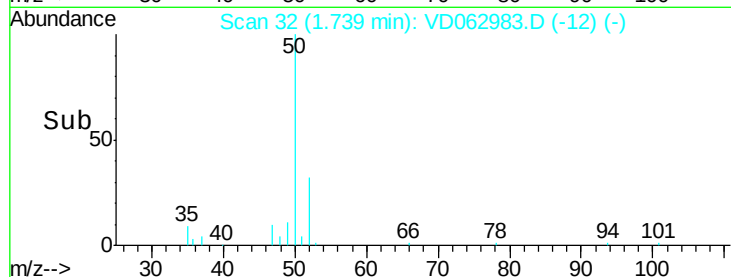
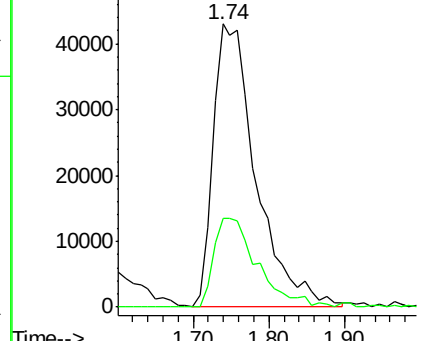
50 100

52 31.5 23.6 35.4



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 18.675 ug/l

RT: 1.84 min Scan# 42

Delta R.T. -0.00 min

Lab File: VD062983.D

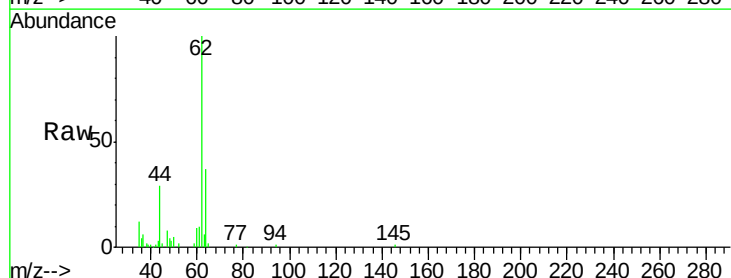
Acq: 1 Jul 2019 12:03

Tgt Ion: 62 Resp: 156765

Ion Ratio Lower Upper

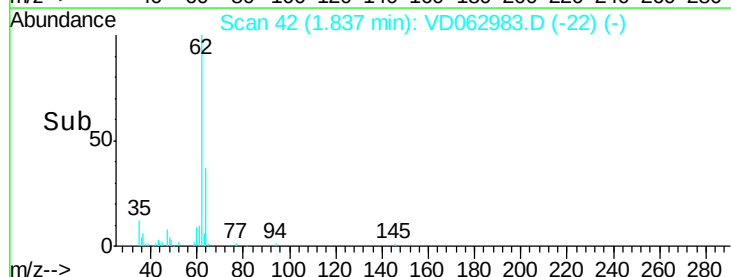
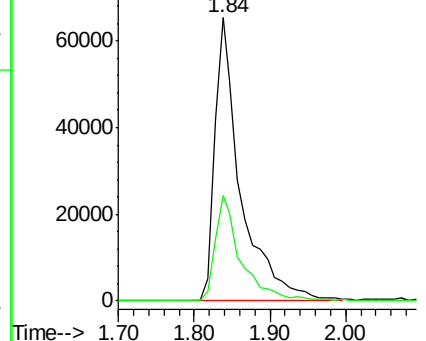
62 100

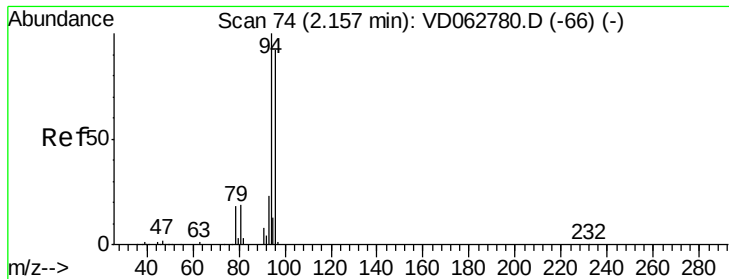
64 37.4 25.6 38.4



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 16.015 ug/l

RT: 2.13 min Scan# 72

Delta R.T. -0.02 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

Instrument :

MSVOA_D

ClientSampleId :

VD0701SBSD01

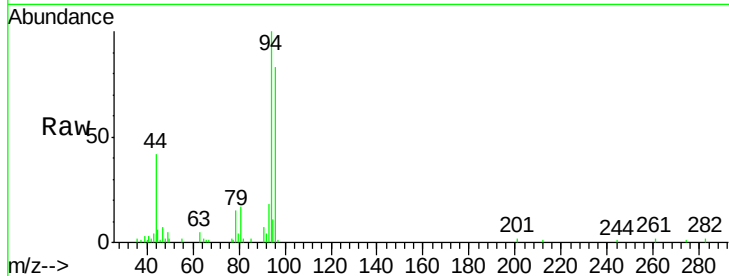
Tot Ion: 94 Resp: 62958

Ion Ratio Lower Upper

94 100

96 83.5 73.4 110.2

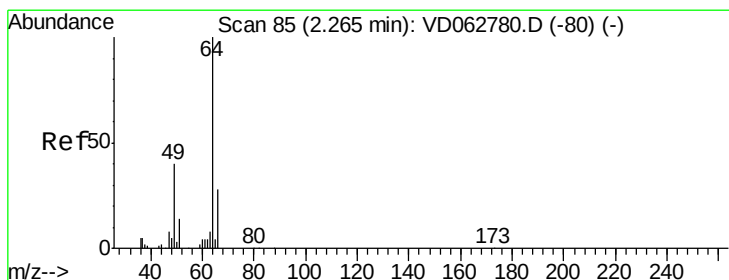
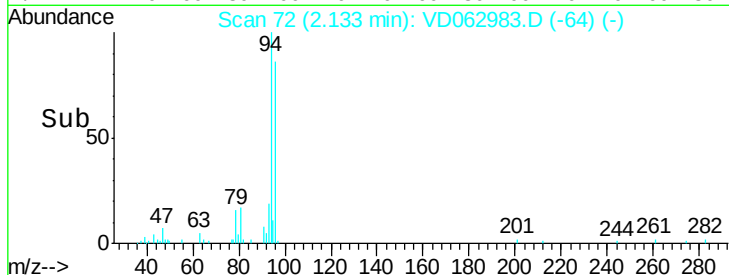
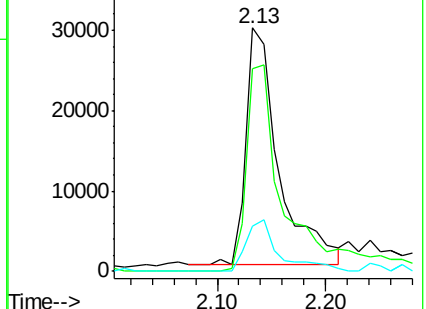
93 18.4 18.2 27.4



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: 19.988 ug/l

RT: 2.24 min Scan# 83

Delta R.T. -0.02 min

Lab File: VD062983.D

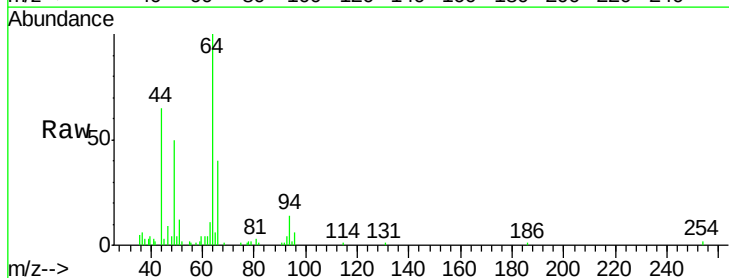
Acq: 1 Jul 2019 12:03

Tgt Ion: 64 Resp: 75966

Ion Ratio Lower Upper

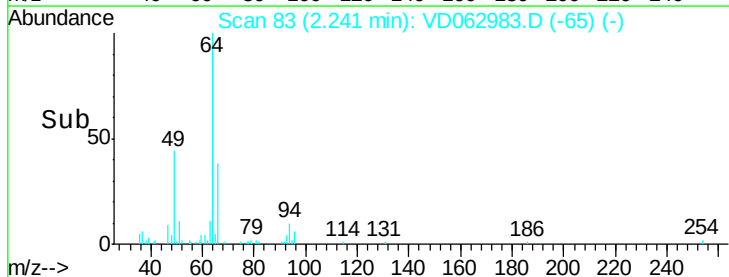
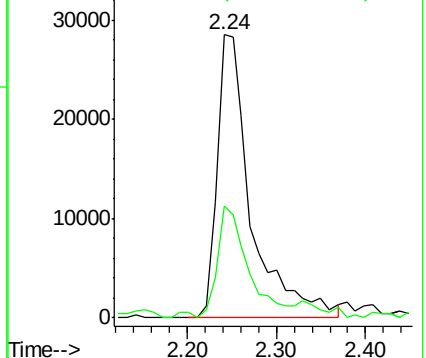
64 100

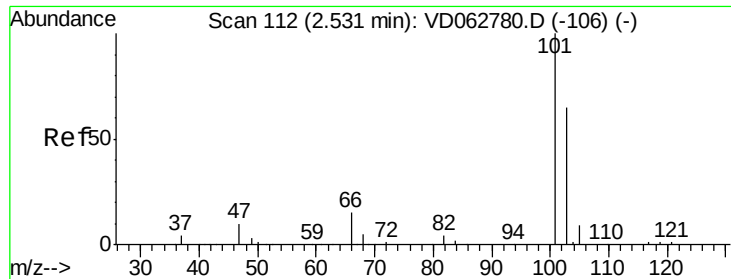
66 39.5 23.0 34.4#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



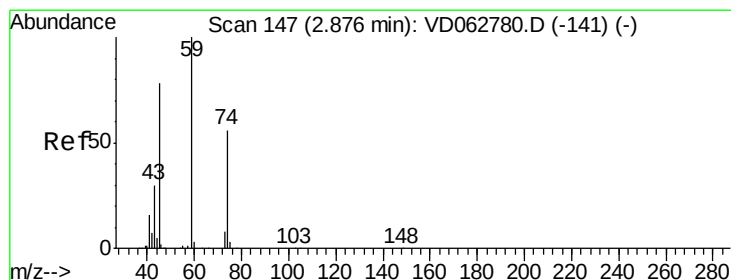
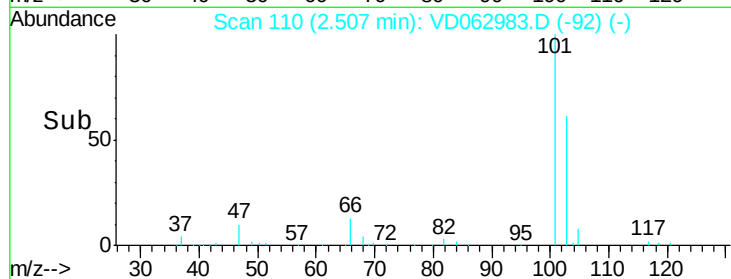
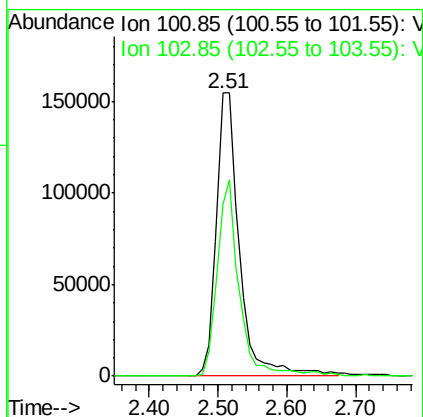
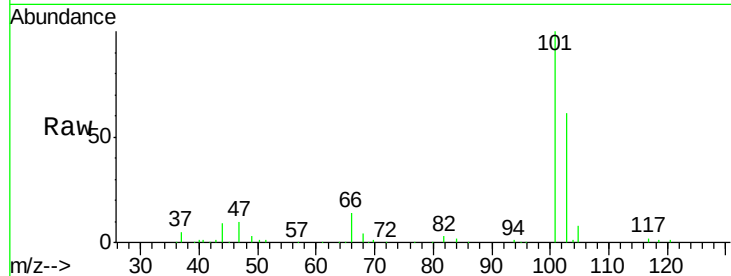


#7

Trichlorofluoromethane
Concen: 21.268 ug/l
RT: 2.51 min Scan# 110
Delta R.T. -0.02 min
Lab File: VD062983.D
Acq: 1 Jul 2019 12:03

Instrument :
MSVOA_D
ClientSampleId :
VD0701SBSD01

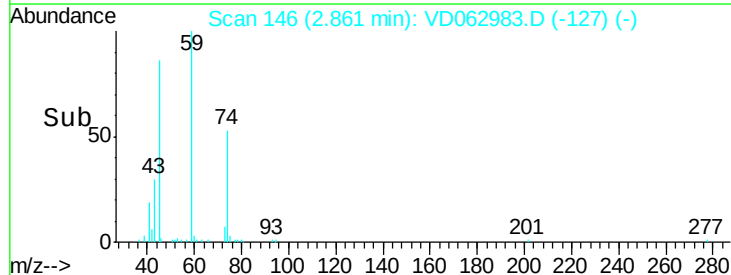
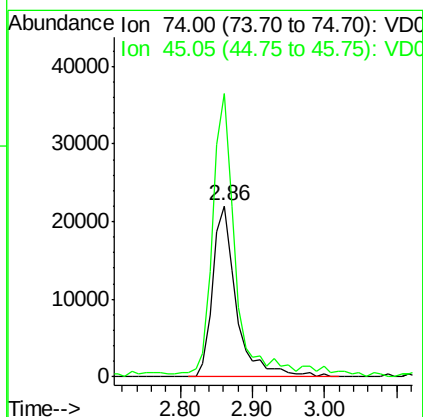
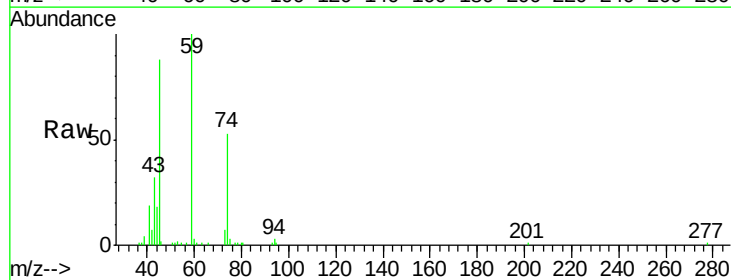
Tot Ion:101 Resp: 361326
Ion Ratio Lower Upper
101 100
103 60.6 51.8 77.8

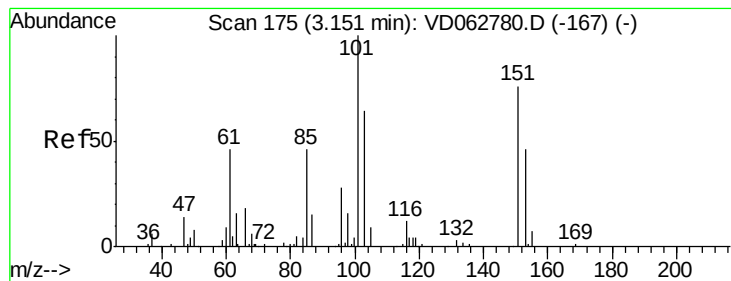


#8

Diethyl Ether
Concen: 23.018 ug/l
RT: 2.86 min Scan# 146
Delta R.T. -0.01 min
Lab File: VD062983.D
Acq: 1 Jul 2019 12:03

Tgt Ion: 74 Resp: 49687
Ion Ratio Lower Upper
74 100
45 165.4 70.2 210.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.178 ug/l

RT: 3.13 min Scan# 173

Delta R.T. -0.02 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

Instrument :

MSVOA_D

ClientSampleId :

VD0701SBSD01

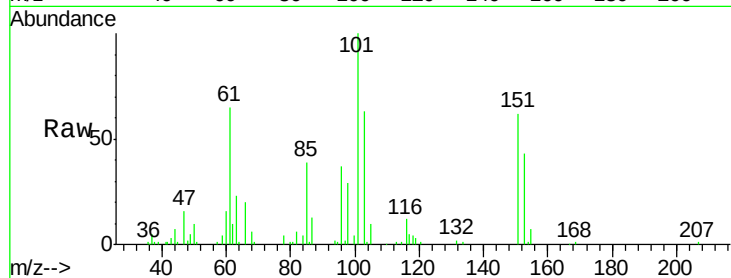
Tot Ion:101 Resp: 185711

Ion Ratio Lower Upper

101 100

85 38.7 37.0 55.4

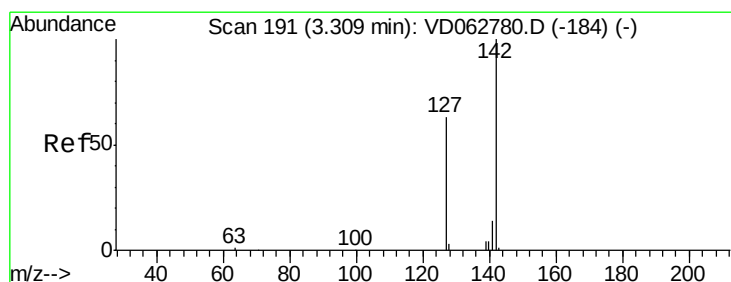
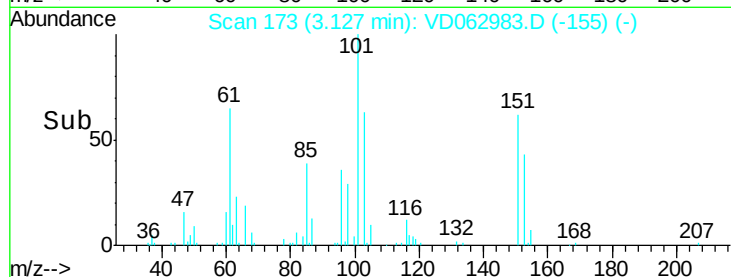
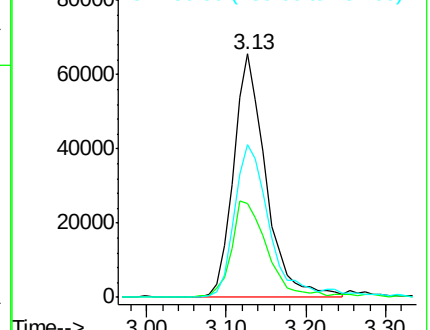
151 62.5 60.5 90.7



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 17.690 ug/l

RT: 3.28 min Scan# 189

Delta R.T. -0.02 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

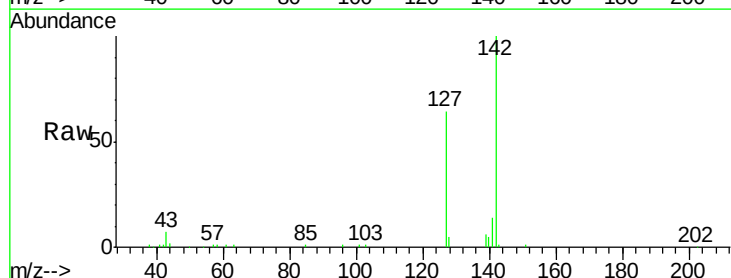
Tgt Ion:142 Resp: 214805

Ion Ratio Lower Upper

142 100

127 64.4 50.1 75.1

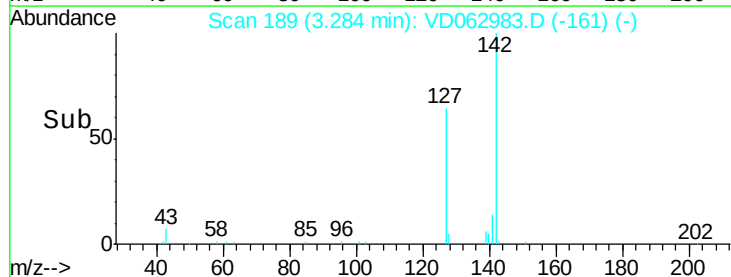
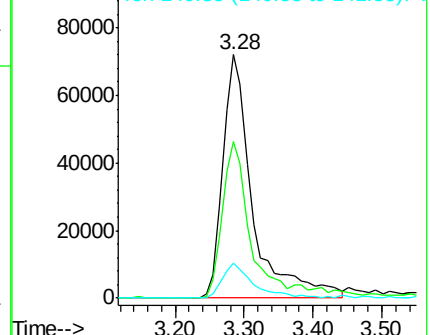
141 14.2 11.0 16.4

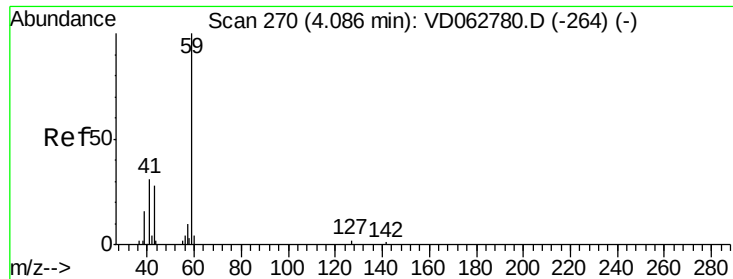


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



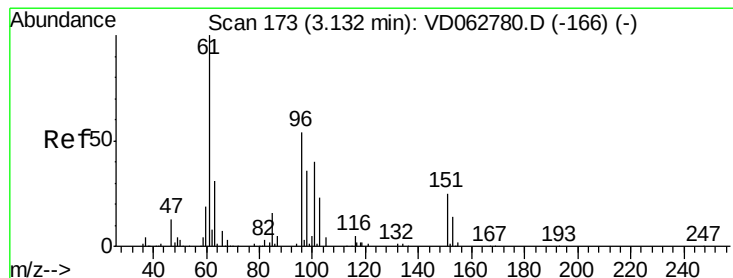
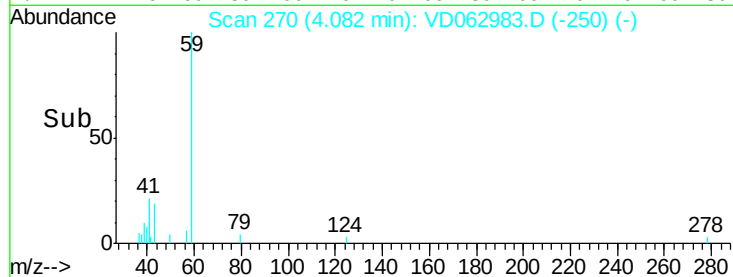
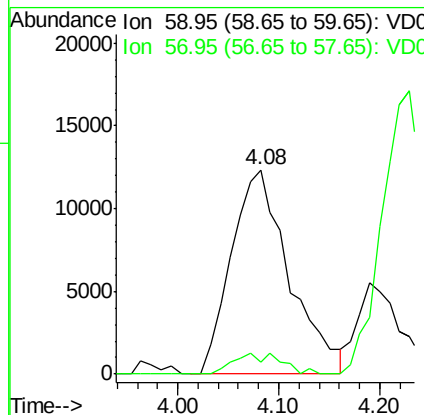
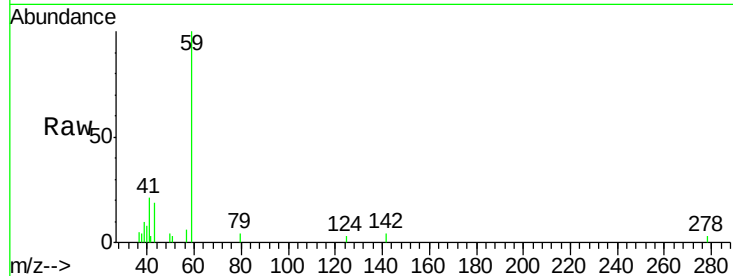


#11

Tert butyl alcohol
 Concen: 114.341 ug/l
 RT: 4.08 min Scan# 270
 Delta R.T. -0.00 min
 Lab File: VD062983.D
 Acq: 1 Jul 2019 12:03

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0701SBS01

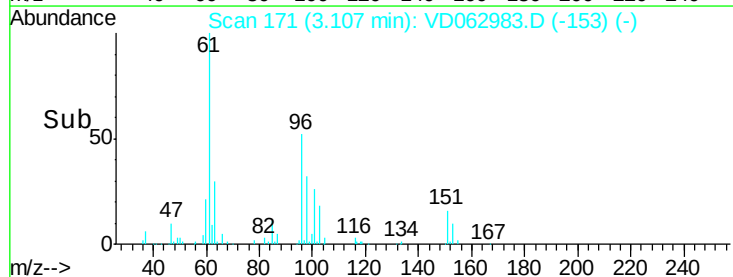
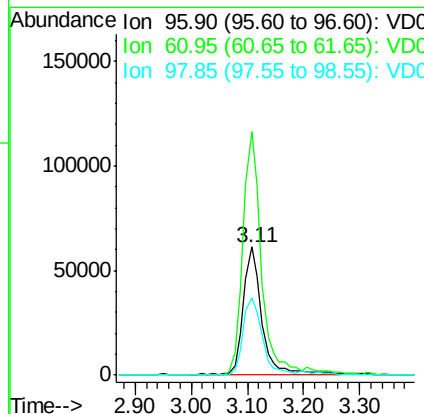
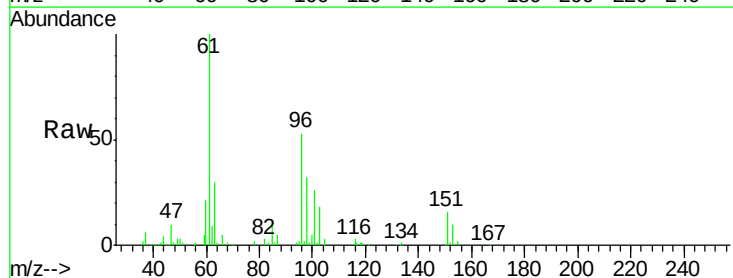
Tot Ion: 59 Resp: 49246
 Ion Ratio Lower Upper
 59 100
 57 5.9 6.6 10.0#

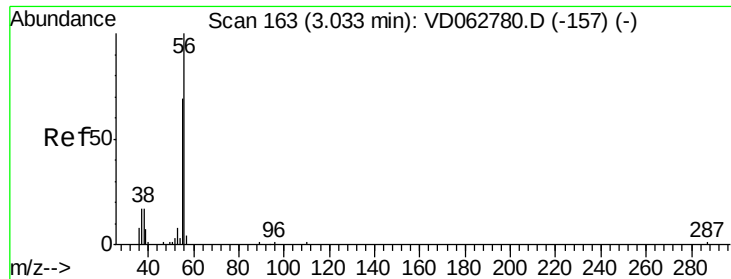


#12

1,1-Dichloroethene
 Concen: 20.907 ug/l
 RT: 3.11 min Scan# 171
 Delta R.T. -0.02 min
 Lab File: VD062983.D
 Acq: 1 Jul 2019 12:03

Tgt Ion: 96 Resp: 144347
 Ion Ratio Lower Upper
 96 100
 61 190.2 147.1 220.7
 98 60.3 52.6 79.0





#13

Acrolein

Concen: 68.929 ug/l

RT: 3.02 min Scan# 162

Delta R.T. -0.01 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

Instrument :

MSVOA_D

ClientSampleId :

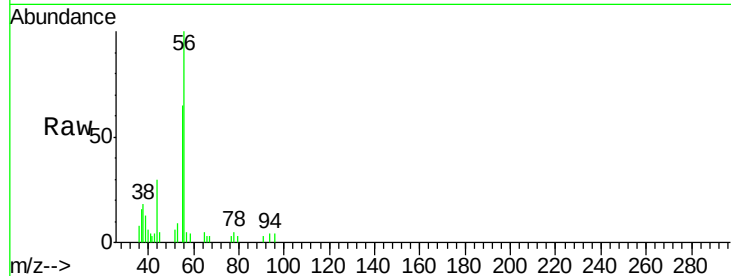
VD0701SBS01

Tot Ion: 56 Resp: 30307

Ion Ratio Lower Upper

56 100

55 64.6 55.4 83.0



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

3.02

15000

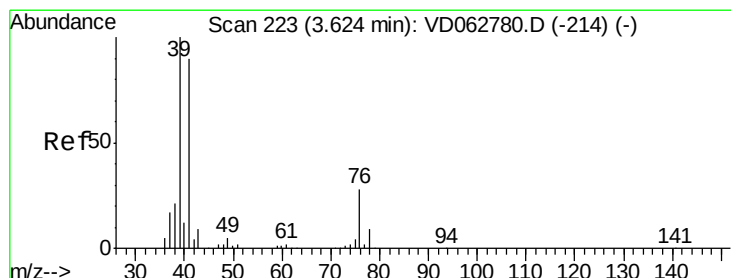
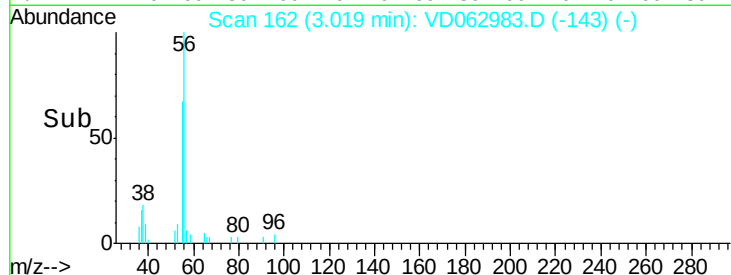
10000

5000

0

Time-->

2.95 3.00 3.05 3.10



#14

Allyl chloride

Concen: 20.389 ug/l

RT: 3.60 min Scan# 221

Delta R.T. -0.02 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

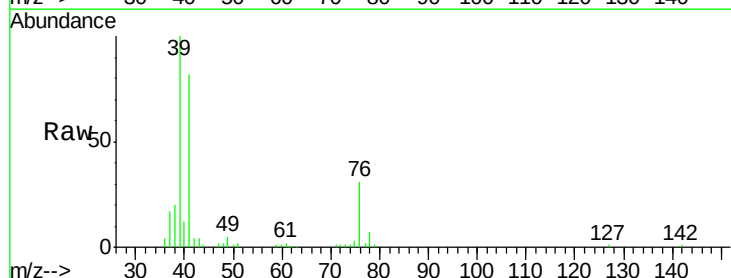
Tgt Ion: 41 Resp: 208012

Ion Ratio Lower Upper

41 100

39 121.5 88.8 133.2

76 37.4 26.7 40.1



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

3.60

120000

100000

80000

60000

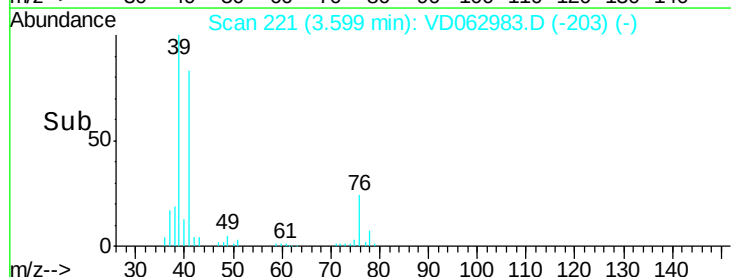
40000

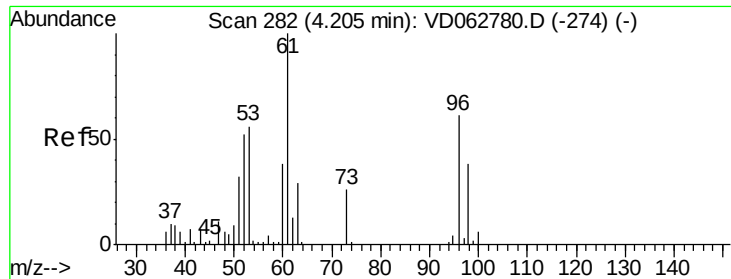
20000

0

Time-->

3.50 3.60 3.70 3.80





#15

Acrylonitrile

Concen: 101.304 ug/l

RT: 4.18 min Scan# 280

Delta R.T. -0.02 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

Instrument :

MSVOA_D

ClientSampleId :

VD0701SBSD01

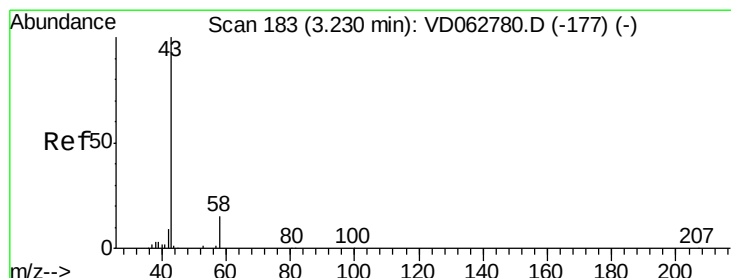
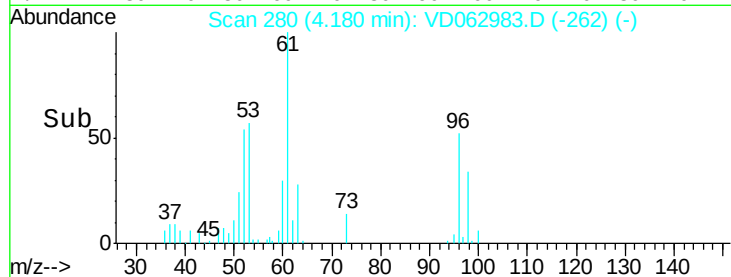
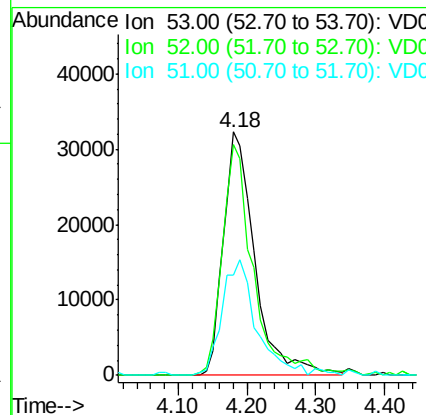
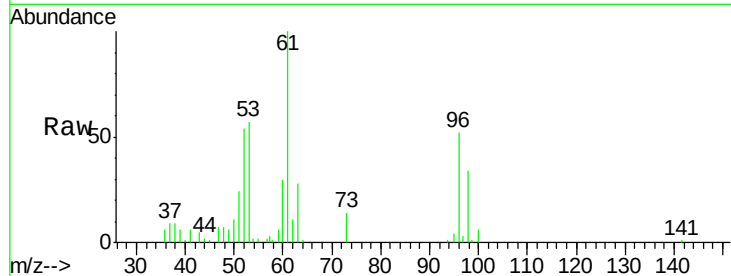
Tot Ion: 53 Resp: 102521

Ion Ratio Lower Upper

53 100

52 94.6 73.3 109.9

51 41.3 44.8 67.2#



#16

Acetone

Concen: 91.742 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.01 min

Lab File: VD062983.D

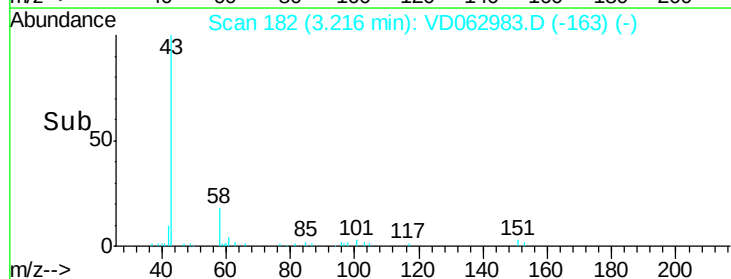
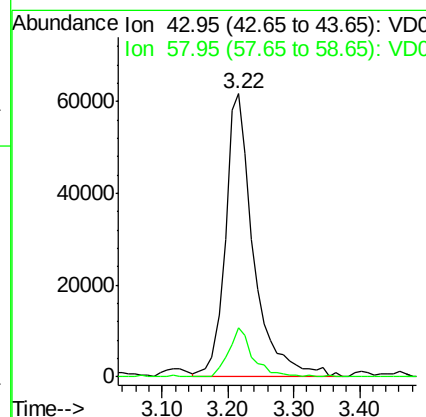
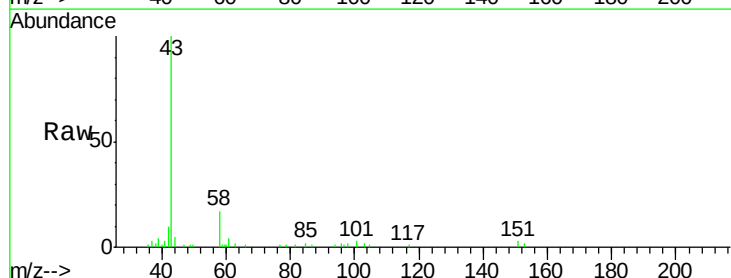
Acq: 1 Jul 2019 12:03

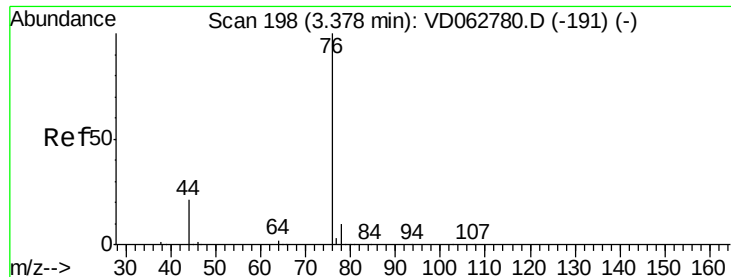
Tgt Ion: 43 Resp: 184426

Ion Ratio Lower Upper

43 100

58 17.2 11.9 17.9





#17

Carbon Disulfide

Concen: 18.751 ug/l

RT: 3.35 min Scan# 196

Delta R.T. -0.02 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

Instrument :

MSVOA_D

ClientSampleId :

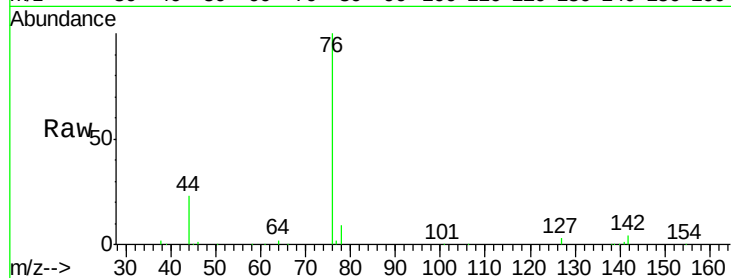
VD0701SBSD01

Tot Ion: 76 Resp: 413761

Ion Ratio Lower Upper

76 100

78 9.3 8.0 12.0



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

3.35

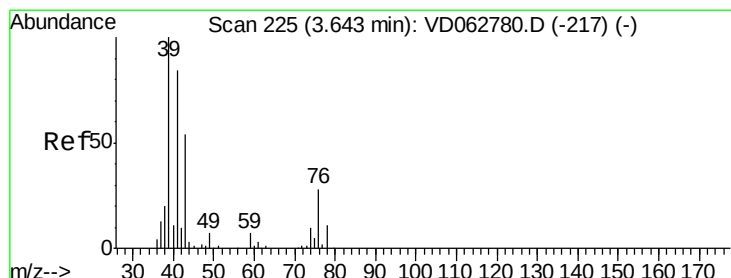
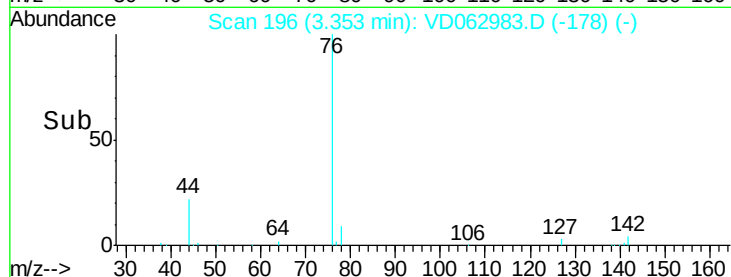
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 28.438 ug/l

RT: 3.63 min Scan# 224

Delta R.T. -0.01 min

Lab File: VD062983.D

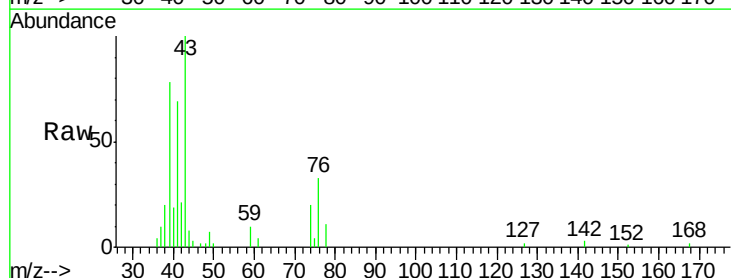
Acq: 1 Jul 2019 12:03

Tgt Ion: 43 Resp: 81182

Ion Ratio Lower Upper

43 100

74 19.8 15.2 22.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

3.63

30000

25000

20000

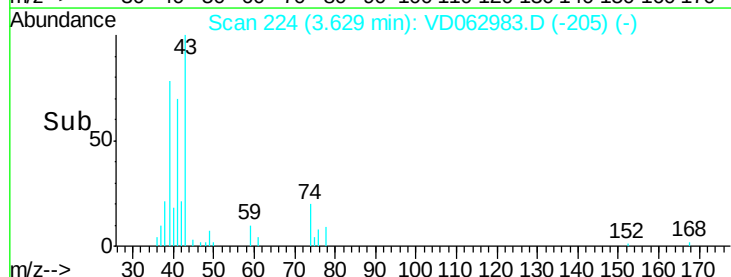
15000

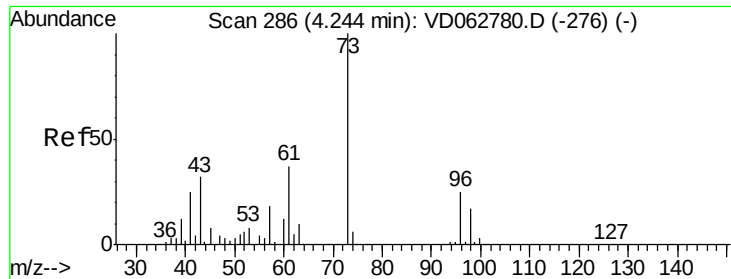
10000

5000

0

Time-->

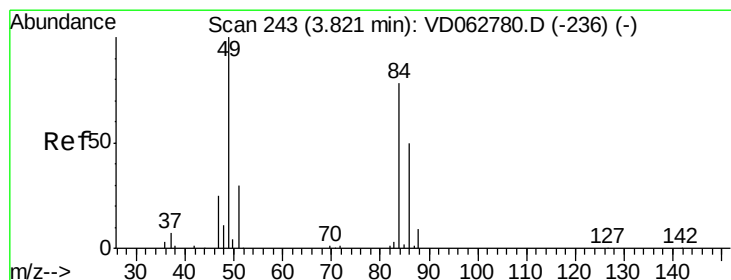
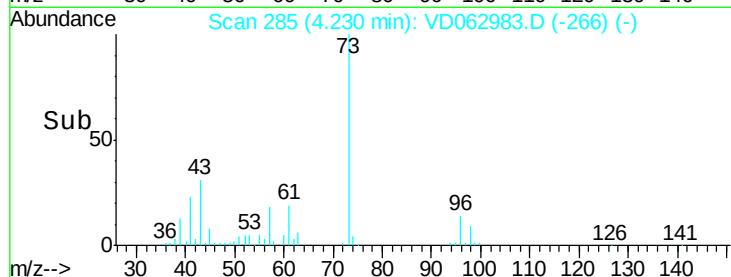
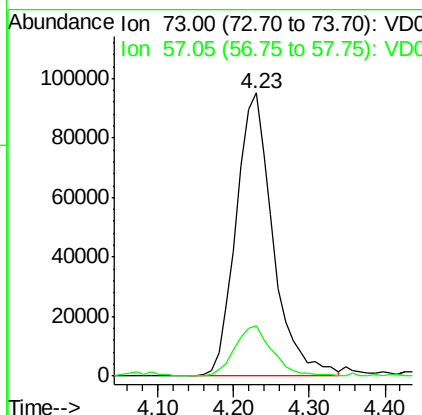
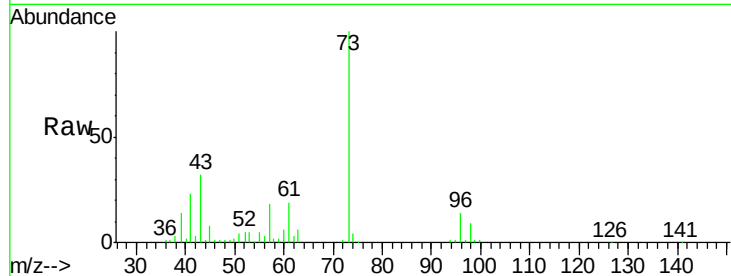




#19
Methyl tert-butyl Ether
Concen: 21.450 ug/l
RT: 4.23 min Scan# 285
Delta R.T. -0.01 min
Lab File: VD062983.D
Acq: 1 Jul 2019 12:03

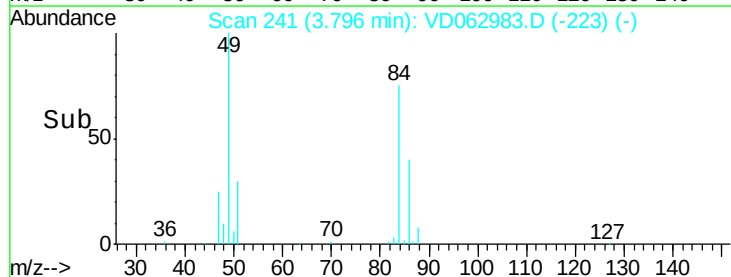
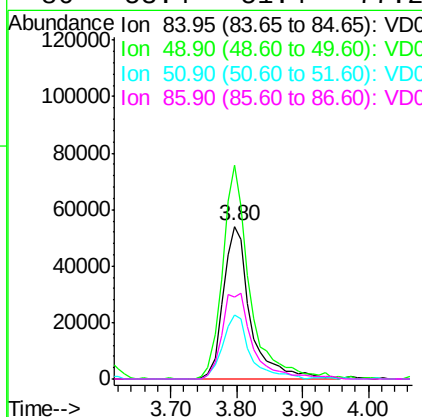
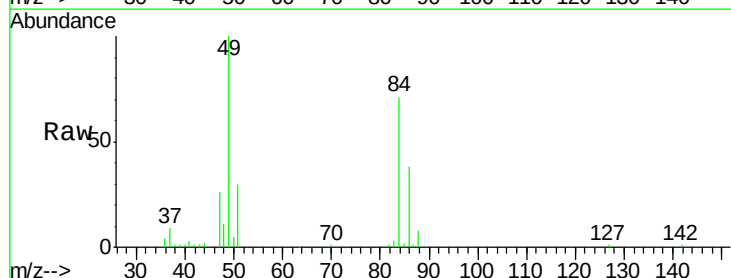
Instrument :
MSVOA_D
ClientSampleId :
VD0701SBS01

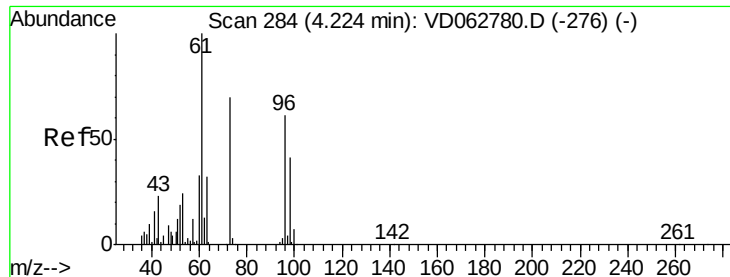
Tot Ion: 73 Resp: 320612
Ion Ratio Lower Upper
73 100
57 18.0 14.3 21.5



#20
Methylene Chloride
Concen: 21.576 ug/l
RT: 3.80 min Scan# 241
Delta R.T. -0.02 min
Lab File: VD062983.D
Acq: 1 Jul 2019 12:03

Tgt Ion: 84 Resp: 155601
Ion Ratio Lower Upper
84 100
49 140.0 102.9 154.3
51 42.3 31.2 46.8
86 53.4 51.4 77.2





#21

trans-1,2-Dichloroethene

Concen: 20.835 ug/l

RT: 4.19 min Scan# 281

Delta R.T. -0.03 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

Instrument :

MSVOA_D

ClientSampleId :

VD0701SBSD01

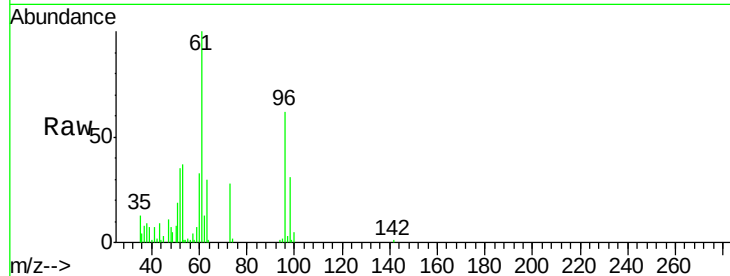
Tot Ion: 96 Resp: 153171

Ion Ratio Lower Upper

96 100

61 161.3 131.0 196.4

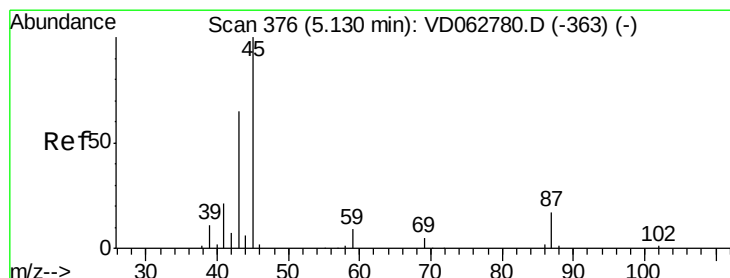
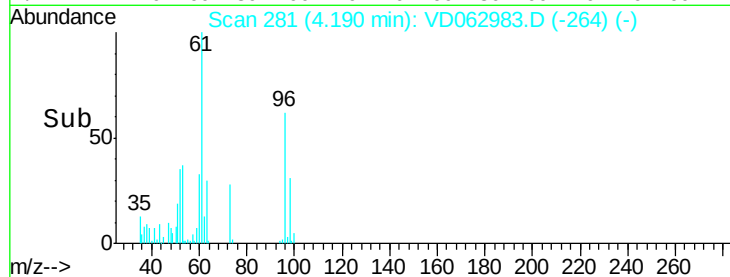
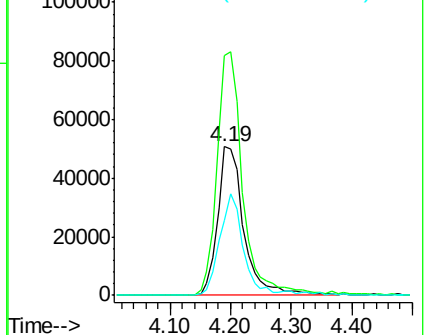
98 50.5 53.2 79.8#



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: 21.050 ug/l

RT: 5.11 min Scan# 374

Delta R.T. -0.02 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

Tgt Ion: 45 Resp: 436732

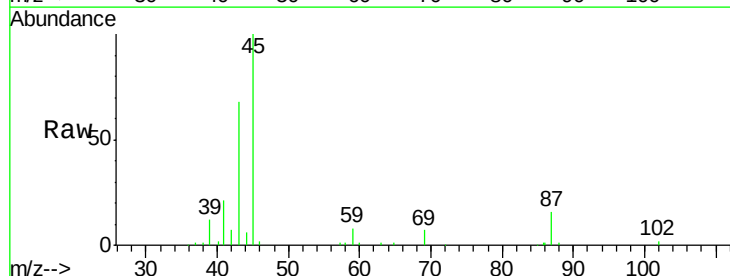
Ion Ratio Lower Upper

45 100

43 67.6 53.4 80.0

87 16.3 14.6 22.0

59 8.3 7.8 11.8

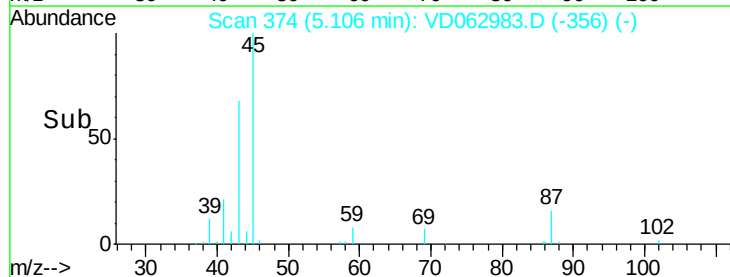
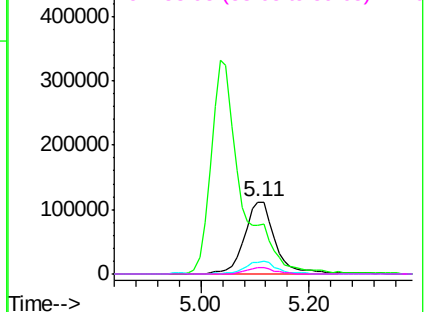


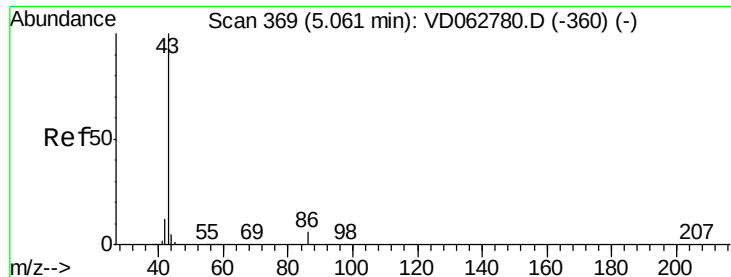
Abundance Ion 45.05 (44.75 to 45.75): VDC

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: 98.976 ug/l

RT: 5.04 min Scan# 367

Delta R.T. -0.02 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

Instrument :

MSVOA_D

ClientSampleId :

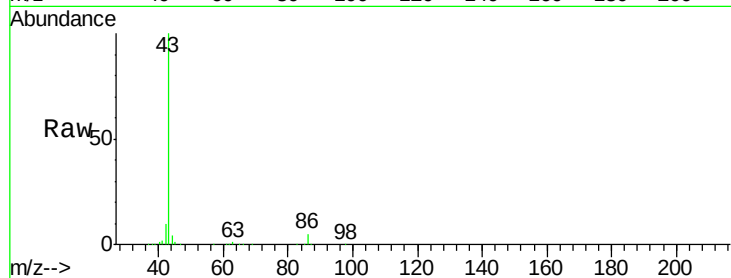
VD0701SBSD01

Tot Ion: 43 Resp: 1284962

Ion Ratio Lower Upper

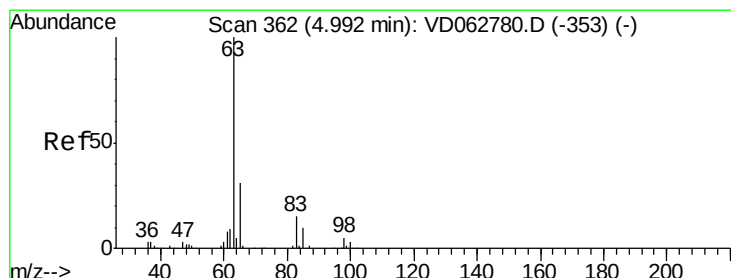
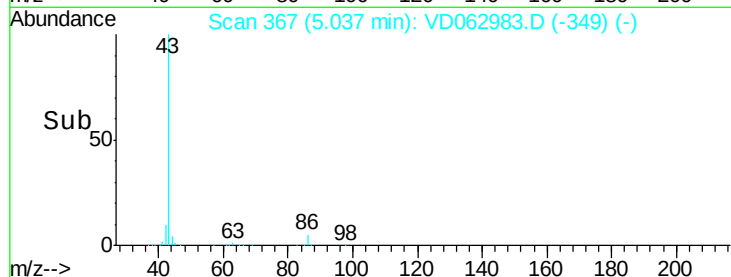
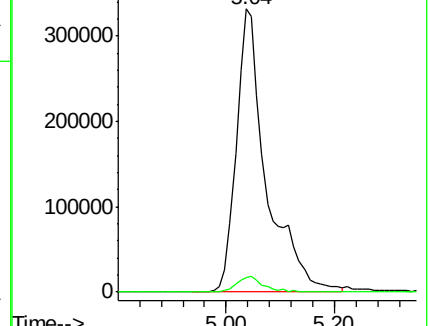
43 100

86 4.9 4.7 7.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 20.869 ug/l

RT: 4.96 min Scan# 359

Delta R.T. -0.03 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

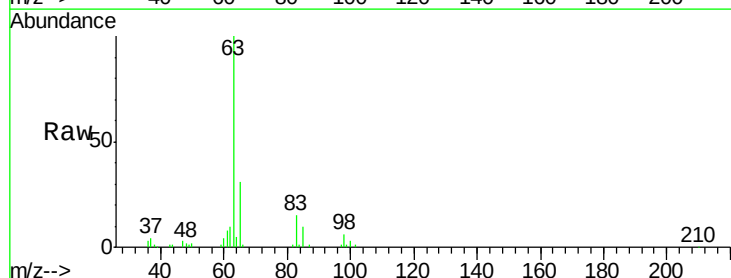
Tgt Ion: 63 Resp: 281904

Ion Ratio Lower Upper

63 100

98 5.5 2.3 6.9

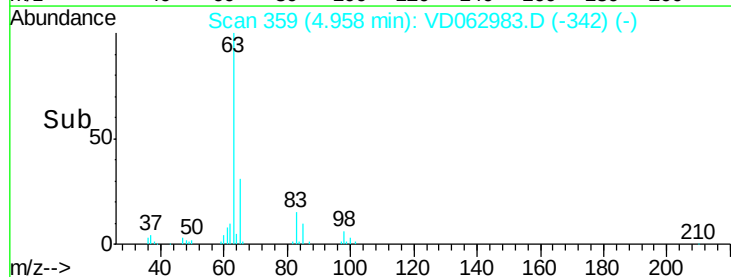
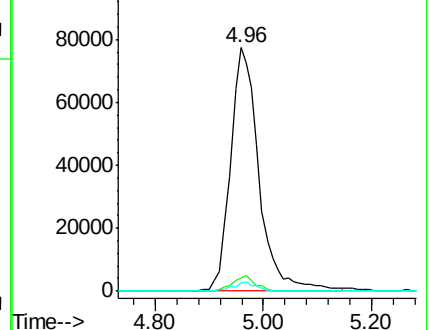
100 3.4 1.7 5.1

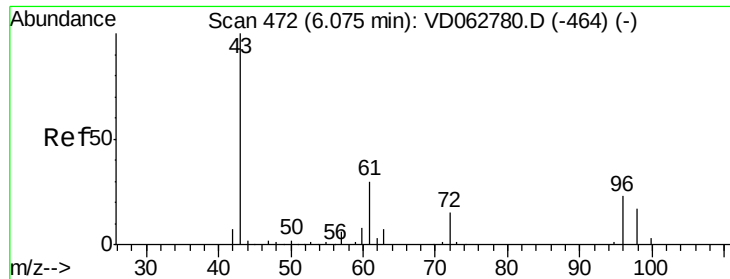


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 104.473 ug/l

RT: 6.06 min Scan# 471

Delta R.T. -0.01 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

Instrument :

MSVOA_D

ClientSampleId :

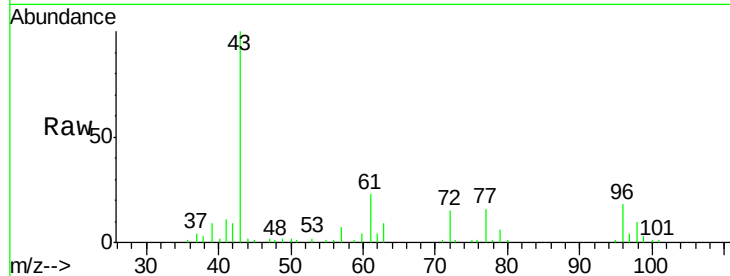
VD0701SBSD01

Tot Ion: 43 Resp: 184777

Ion Ratio Lower Upper

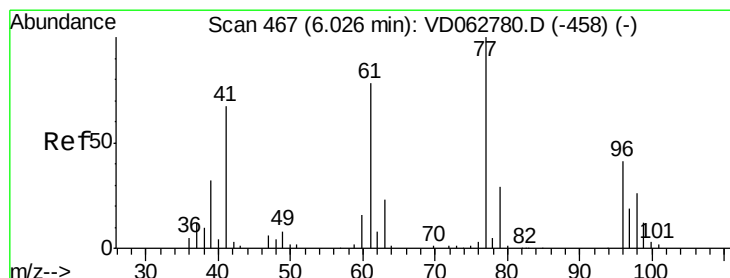
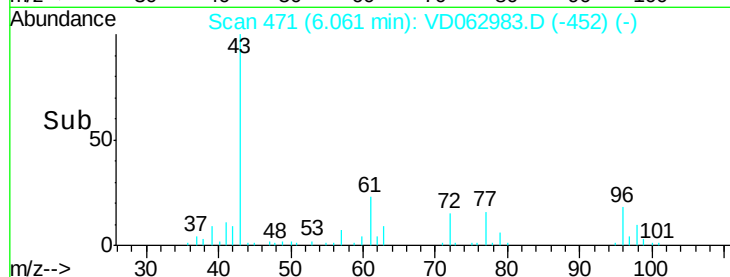
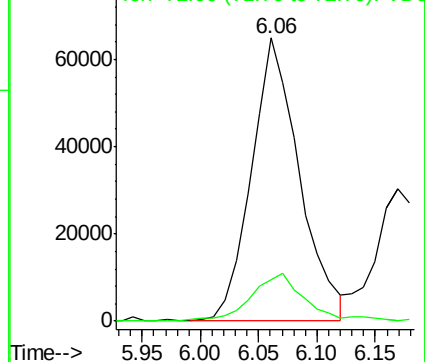
43 100

72 14.8 11.9 17.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 20.793 ug/l

RT: 6.01 min Scan# 466

Delta R.T. -0.01 min

Lab File: VD062983.D

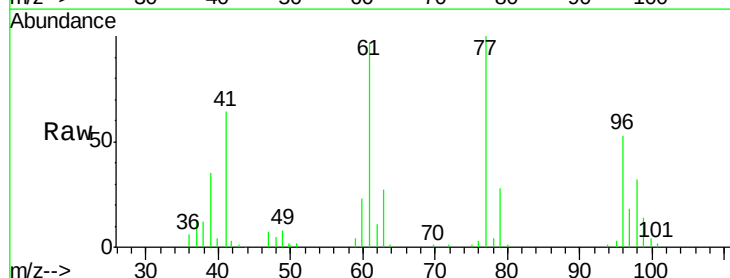
Acq: 1 Jul 2019 12:03

Tgt Ion: 77 Resp: 297707

Ion Ratio Lower Upper

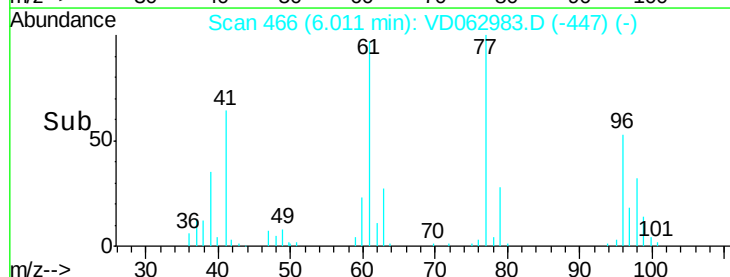
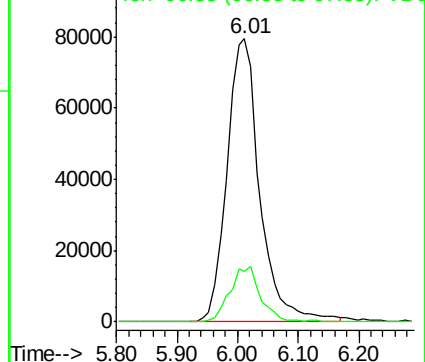
77 100

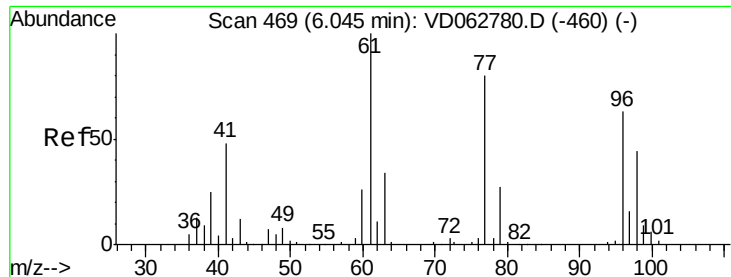
97 17.8 9.5 28.5



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



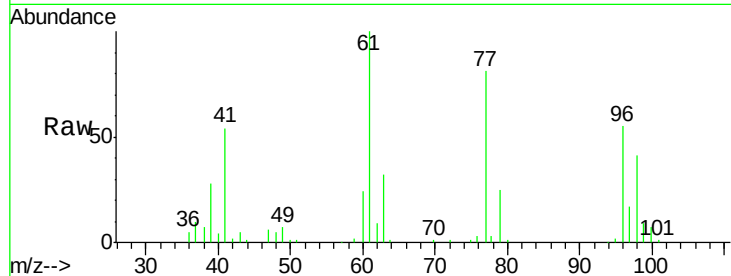


#27

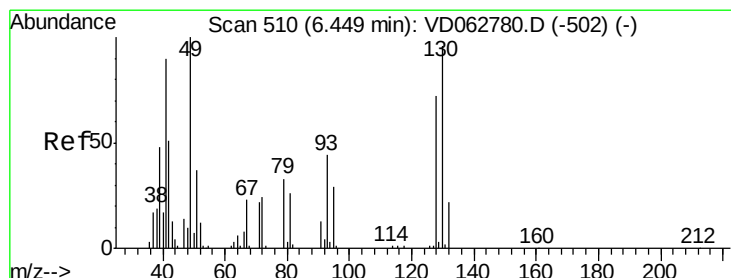
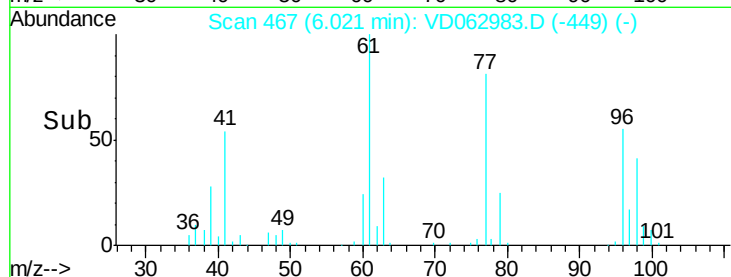
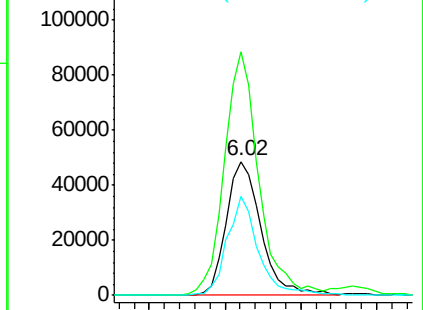
cis-1,2-Dichloroethene
Concen: 19.863 ug/l
RT: 6.02 min Scan# 467
Delta R.T. -0.02 min
Lab File: VD062983.D
Acq: 1 Jul 2019 12:03

Instrument :
MSVOA_D
ClientSampleId :
VD0701SBSD01

Tot Ion: 96 Resp: 154424
Ion Ratio Lower Upper
96 100
61 182.0 0.0 316.0
98 74.2 0.0 138.4



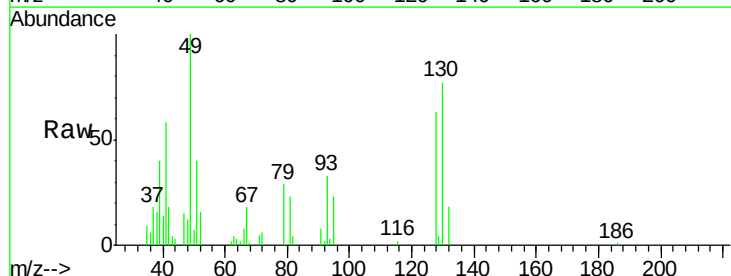
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



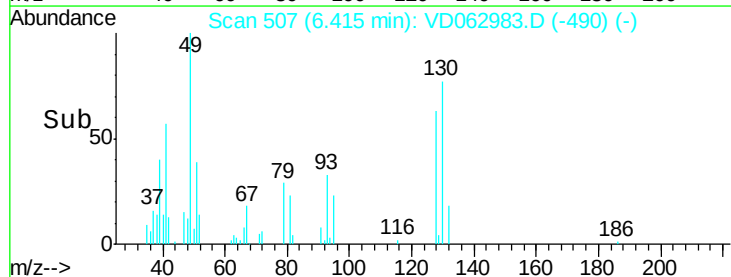
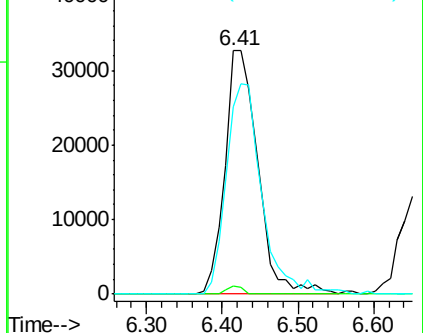
#28

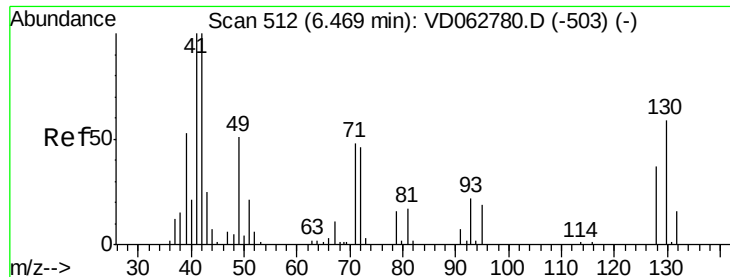
Bromochloromethane
Concen: 20.576 ug/l
RT: 6.41 min Scan# 507
Delta R.T. -0.03 min
Lab File: VD062983.D
Acq: 1 Jul 2019 12:03

Tgt Ion: 49 Resp: 97894
Ion Ratio Lower Upper
49 100
129 3.6 0.0 5.6
130 77.1 76.6 114.8



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

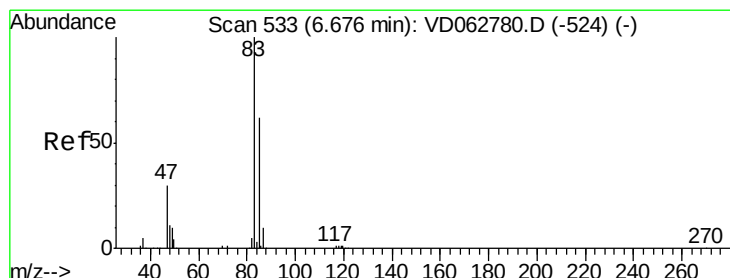
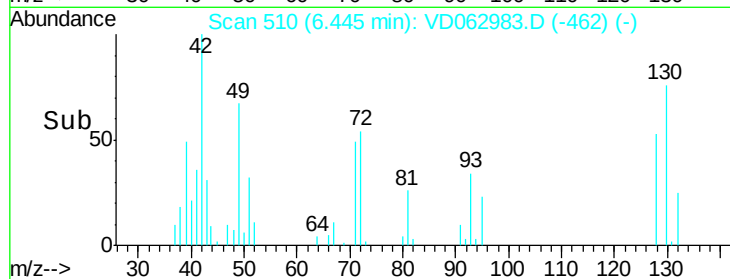
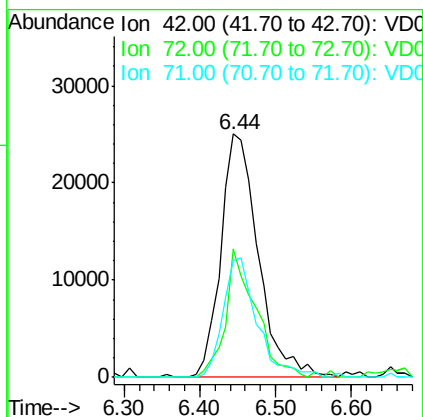
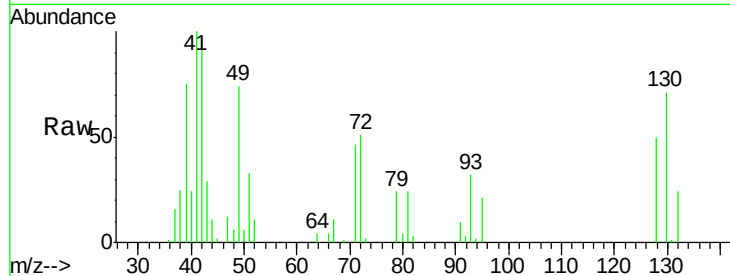




#29
Tetrahydrofuran
Concen: 102.614 ug/l
RT: 6.44 min Scan# 510
Delta R.T. -0.02 min
Lab File: VD062983.D
Acq: 1 Jul 2019 12:03

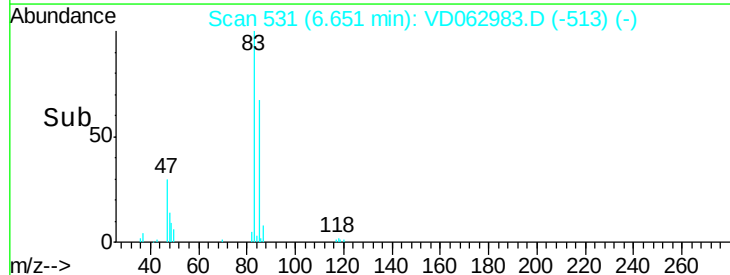
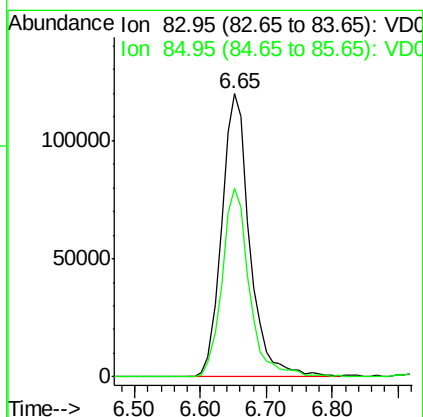
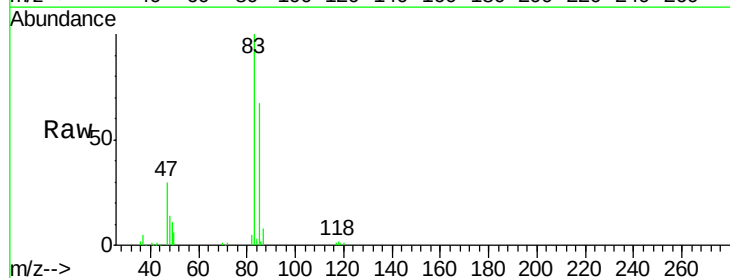
Instrument :
MSVOA_D
ClientSampleId :
VD0701SBSD01

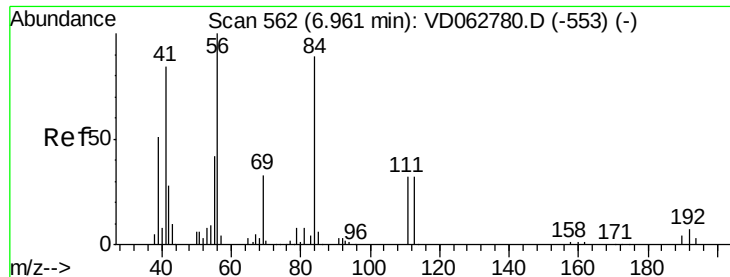
Tot Ion: 42 Resp: 85869
Ion Ratio Lower Upper
42 100
72 42.3 35.0 52.6
71 44.4 33.3 49.9



#30
Chloroform
Concen: 21.642 ug/l
RT: 6.65 min Scan# 531
Delta R.T. -0.02 min
Lab File: VD062983.D
Acq: 1 Jul 2019 12:03

Tgt Ion: 83 Resp: 355528
Ion Ratio Lower Upper
83 100
85 66.5 49.8 74.6

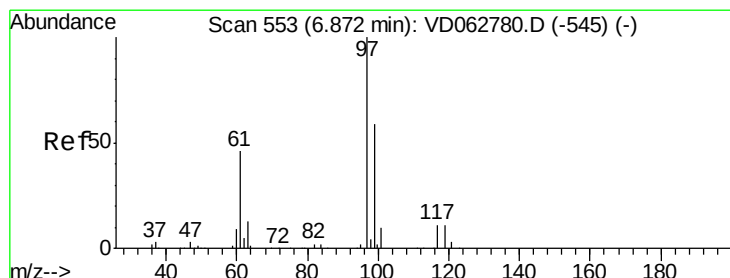
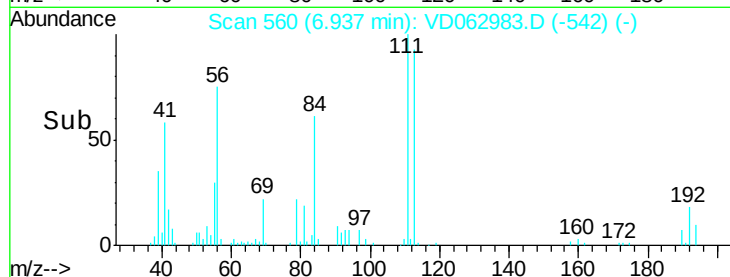
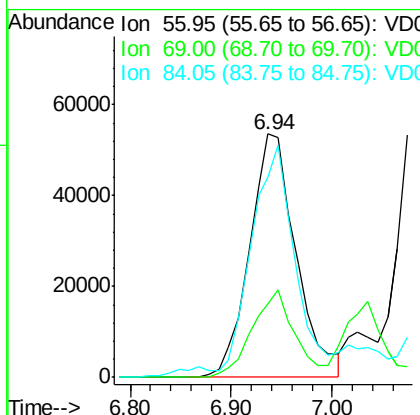
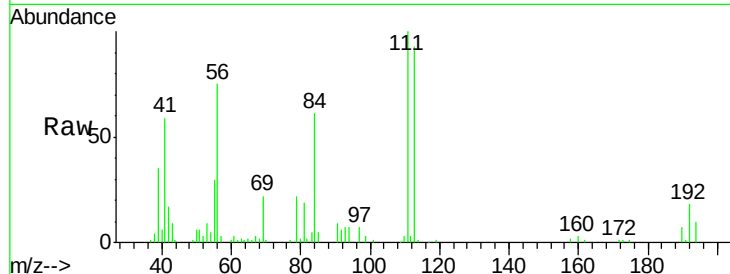




#31
Cyclohexane
Concen: 19.319 ug/l
RT: 6.94 min Scan# 560
Delta R.T. -0.02 min
Lab File: VD062983.D
Acq: 1 Jul 2019 12:03

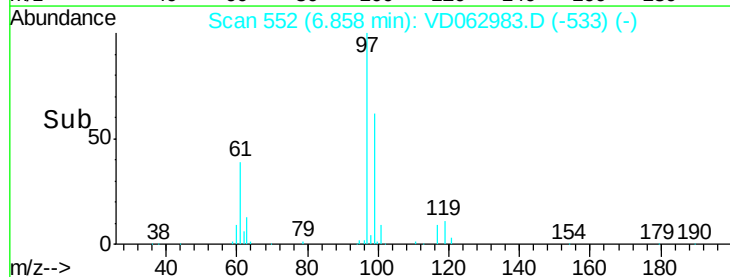
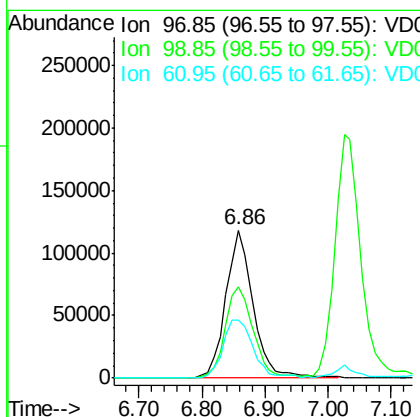
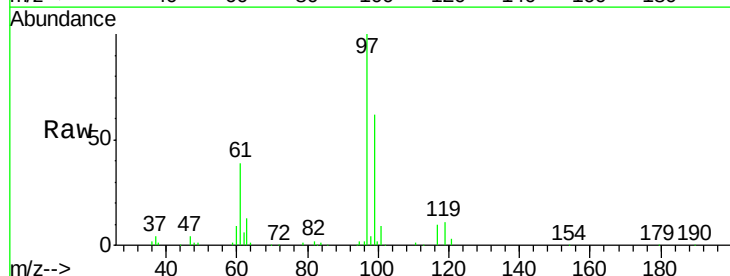
Instrument :
MSVOA_D
ClientSampleId :
VD0701SBSD01

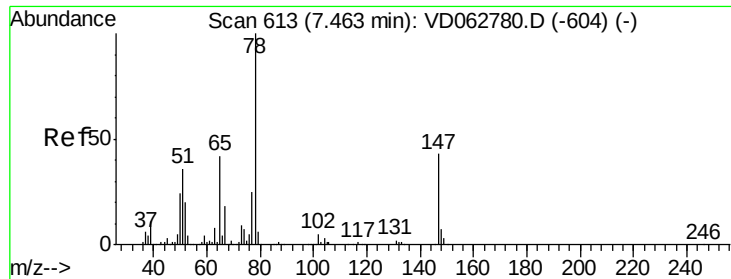
Tot Ion: 56 Resp: 171560
Ion Ratio Lower Upper
56 100
69 29.9 26.6 39.8
84 82.1 75.5 113.3



#32
1,1,1-Trichloroethane
Concen: 20.789 ug/l
RT: 6.86 min Scan# 552
Delta R.T. -0.01 min
Lab File: VD062983.D
Acq: 1 Jul 2019 12:03

Tgt Ion: 97 Resp: 355725
Ion Ratio Lower Upper
97 100
99 61.6 47.4 71.2
61 38.8 37.2 55.8





#33

1,2-Dichloroethane-d4

Concen: 49.887 ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.02 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

Instrument :

MSVOA_D

ClientSampleId :

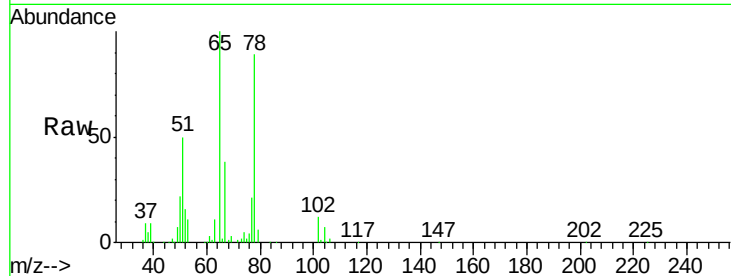
VD0701SBSD01

Tot Ion: 65 Resp: 471754

Ion Ratio Lower Upper

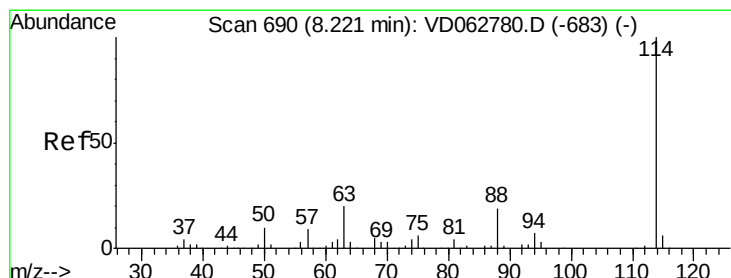
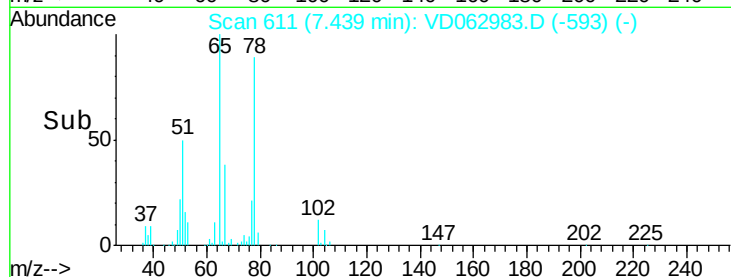
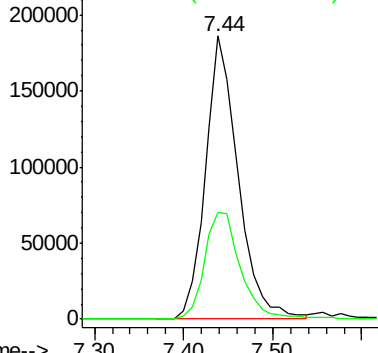
65 100

67 37.7 0.0 87.4



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 689

Delta R.T. -0.01 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

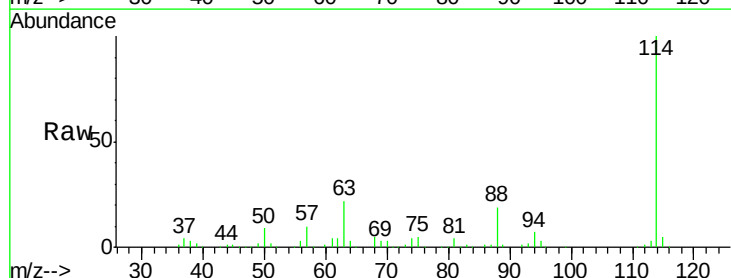
Tgt Ion: 114 Resp: 1148750

Ion Ratio Lower Upper

114 100

63 21.6 0.0 40.0

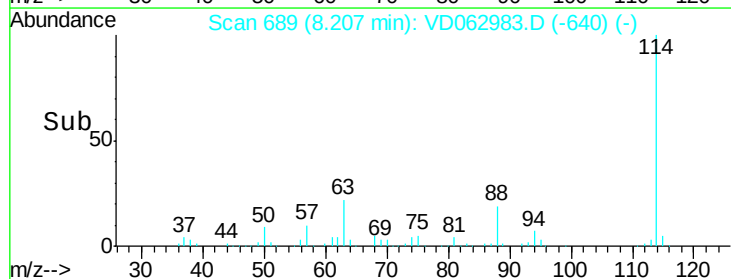
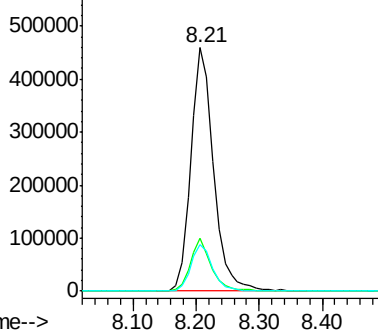
88 18.9 0.0 38.8

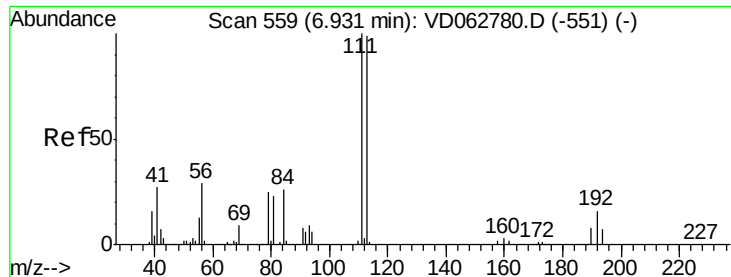


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 49.240 ug/l

RT: 6.91 min Scan# 557

Delta R.T. -0.02 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

Instrument :

MSVOA_D

ClientSampleId :

VD0701SBSD01

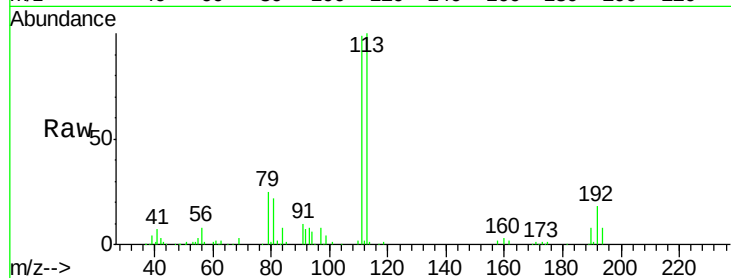
Tot Ion:113 Resp: 476946

Ion Ratio Lower Upper

113 100

111 99.4 81.2 121.8

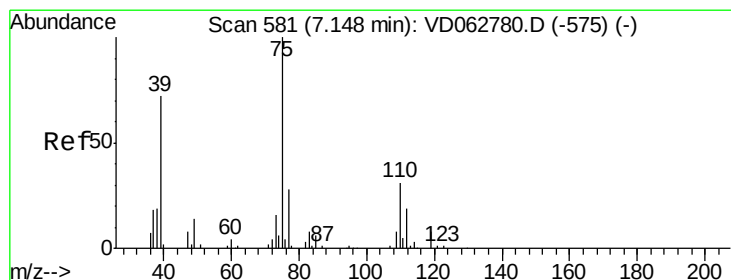
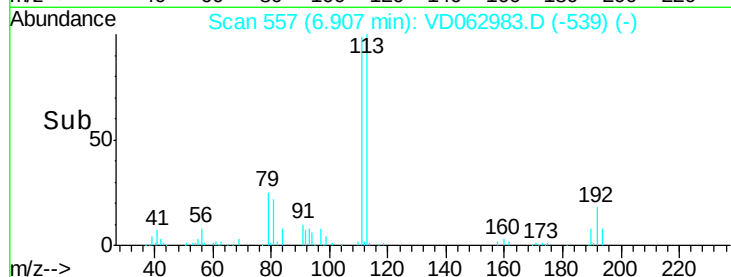
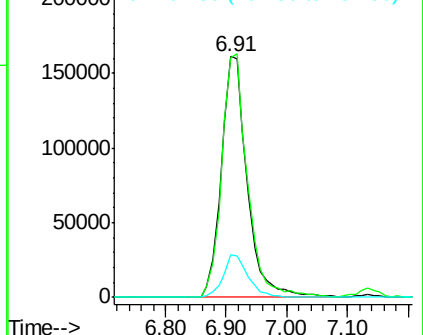
192 17.6 12.9 19.3



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: 20.460 ug/l

RT: 7.13 min Scan# 580

Delta R.T. -0.01 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

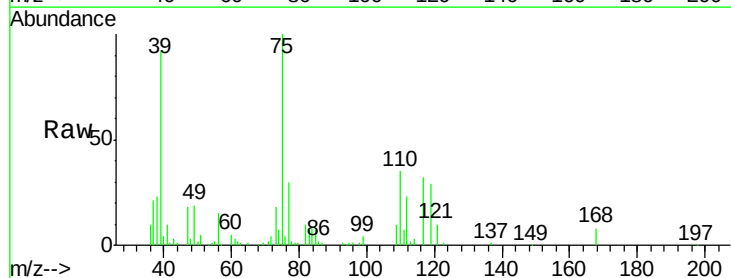
Tgt Ion: 75 Resp: 222494

Ion Ratio Lower Upper

75 100

110 34.7 15.0 45.1

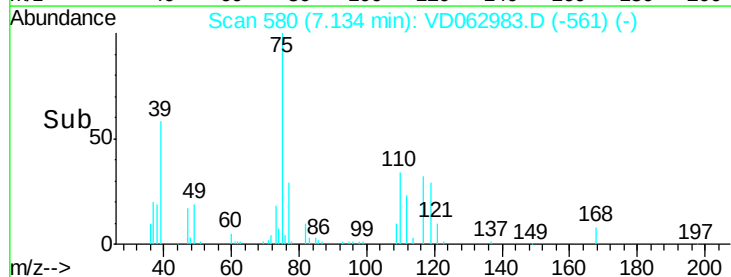
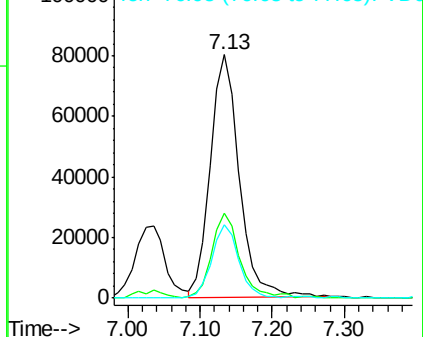
77 30.0 22.2 33.2

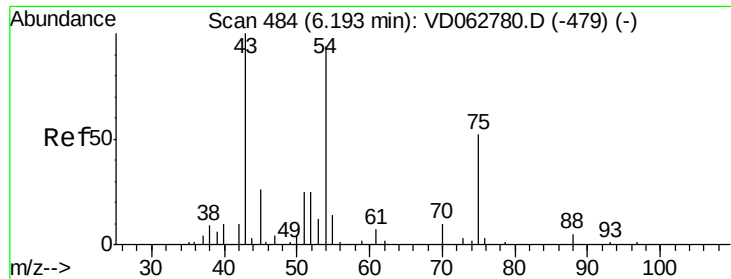


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#37

Ethyl Acetate

Concen: 20.322 ug/l

RT: 6.17 min Scan# 482

Delta R.T. -0.02 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

Instrument :

MSVOA_D

ClientSampleId :

VD0701SBS01

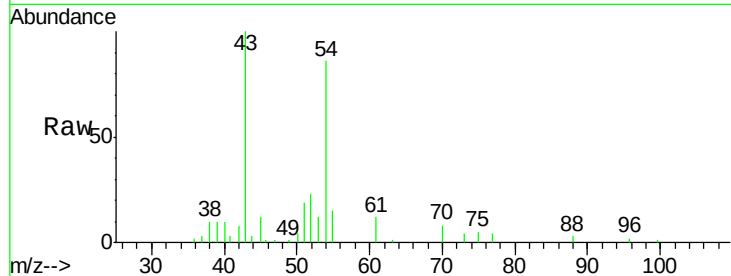
Tot Ion: 43 Resp: 95820

Ion Ratio Lower Upper

43 100

61 11.7 11.6 17.4

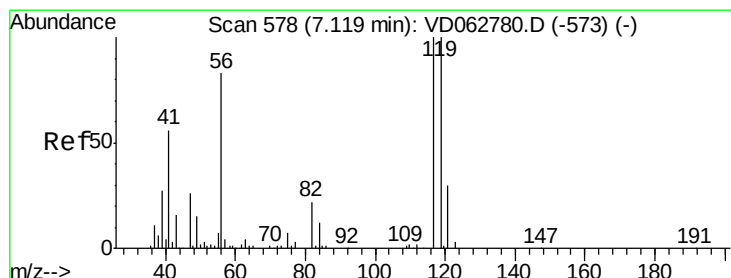
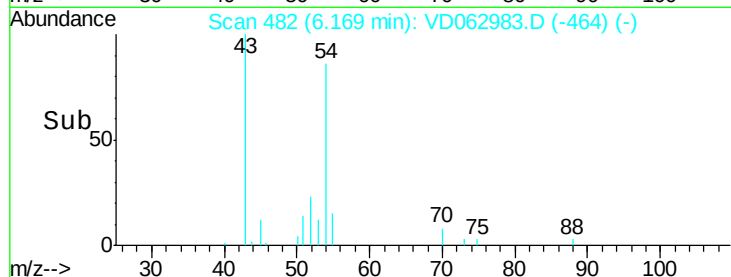
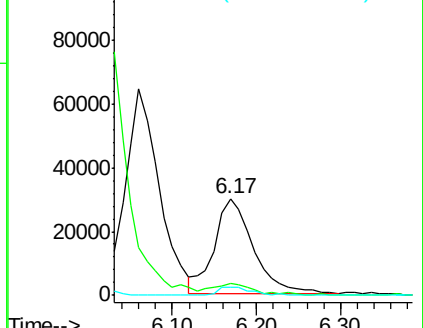
70 7.9 6.4 9.6



Abundance Ion 42.95 (42.65 to 43.65): VD062780.D (-479) (-)

Ion 60.95 (60.65 to 61.65): VD062780.D (-479) (-)

Ion 70.00 (69.70 to 70.70): VD062780.D (-479) (-)



#38

Carbon Tetrachloride

Concen: 20.089 ug/l

RT: 7.09 min Scan# 576

Delta R.T. -0.02 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

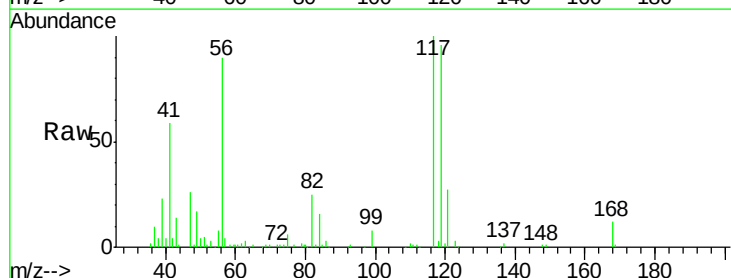
Tgt Ion: 117 Resp: 328561

Ion Ratio Lower Upper

117 100

119 96.2 75.4 113.2

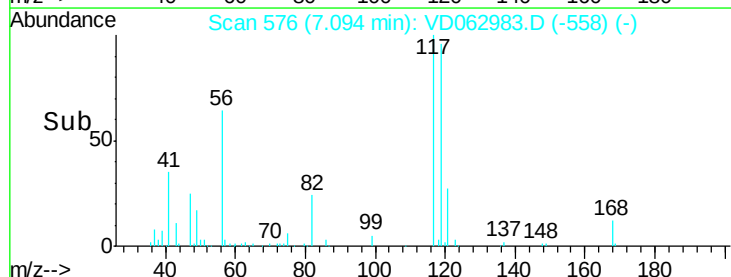
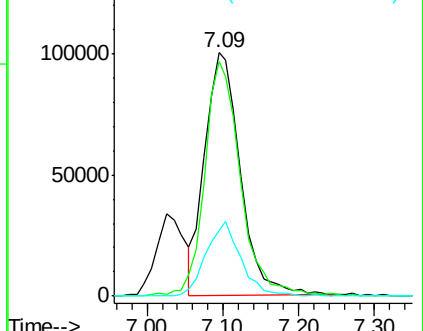
121 27.1 22.3 33.5

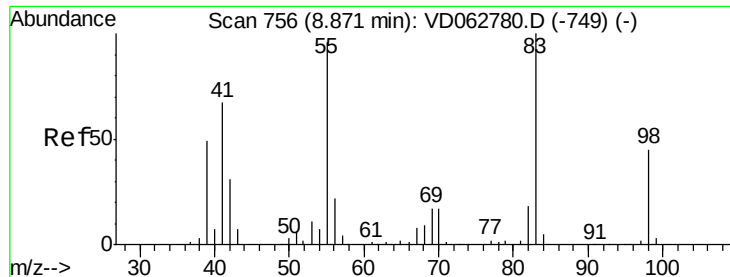


Abundance Ion 116.85 (116.55 to 117.55): VD062780.D (-573) (-)

Ion 118.85 (118.55 to 119.55): VD062780.D (-573) (-)

Ion 120.85 (120.55 to 121.55): VD062780.D (-573) (-)

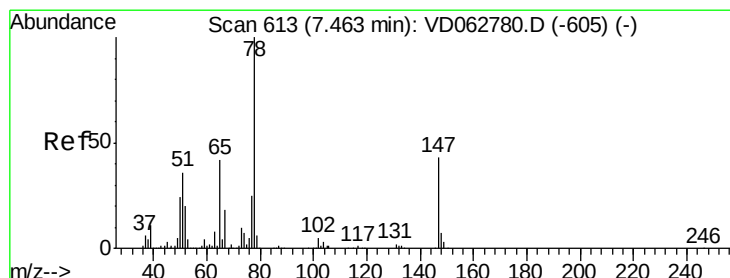
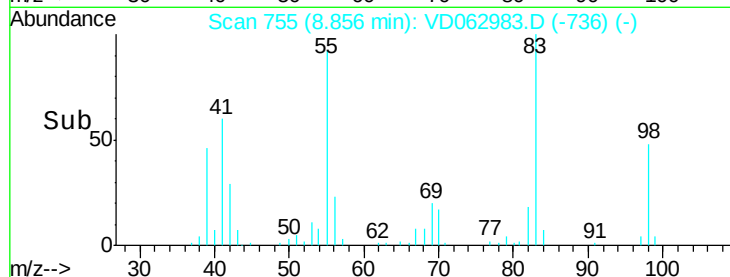
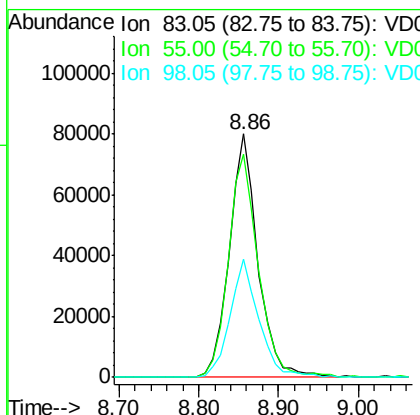
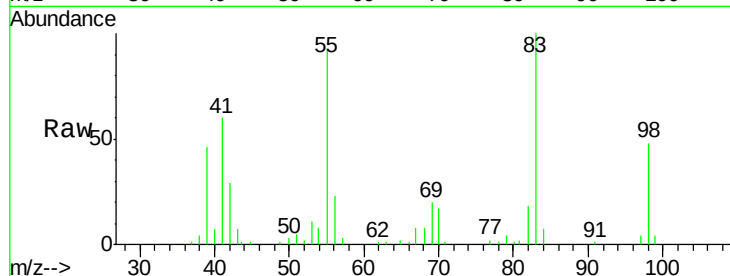




#39
Methylvlcyclohexane
Concen: 20.967 ug/l
RT: 8.86 min Scan# 755
Delta R.T. -0.01 min
Lab File: VD062983.D
Acq: 1 Jul 2019 12:03

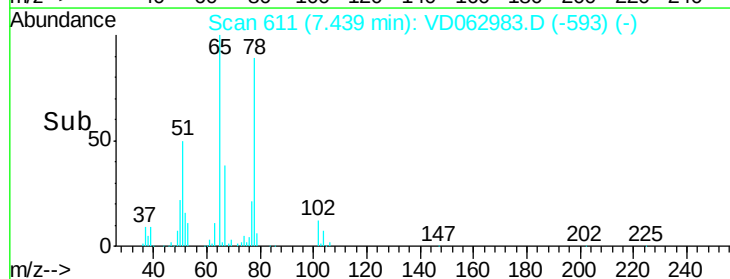
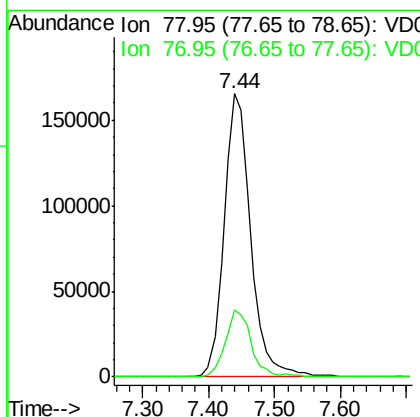
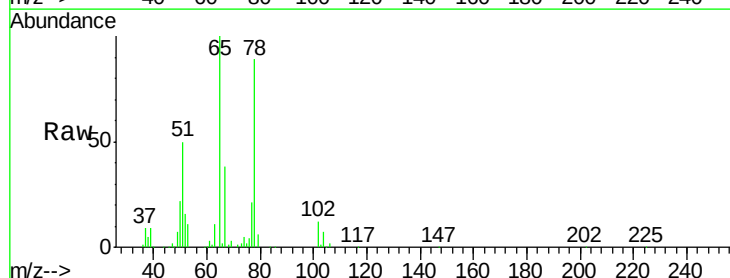
Instrument :
MSVOA_D
ClientSampleId :
VD0701SBS01

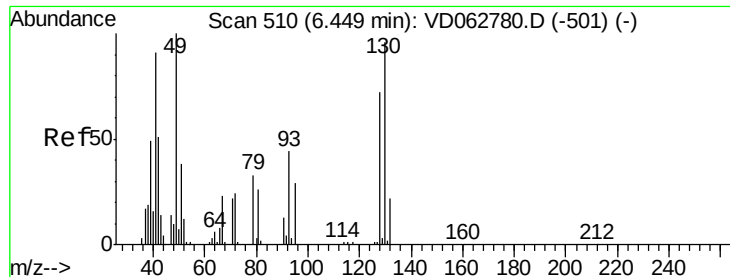
Tot Ion: 83 Resp: 200703
Ion Ratio Lower Upper
83 100
55 91.8 76.6 115.0
98 48.3 35.7 53.5



#40
Benzene
Concen: 21.411 ug/l
RT: 7.44 min Scan# 611
Delta R.T. -0.02 min
Lab File: VD062983.D
Acq: 1 Jul 2019 12:03

Tgt Ion: 78 Resp: 467374
Ion Ratio Lower Upper
78 100
77 23.6 20.2 30.2





#41

Methacrylonitrile

Concen: 20.071 ug/l

RT: 6.43 min Scan# 509

Delta R.T. -0.01 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

Instrument :

MSVOA_D

ClientSampleId :

VD0701SBSD01

Tot Ion: 41 Resp: 115106

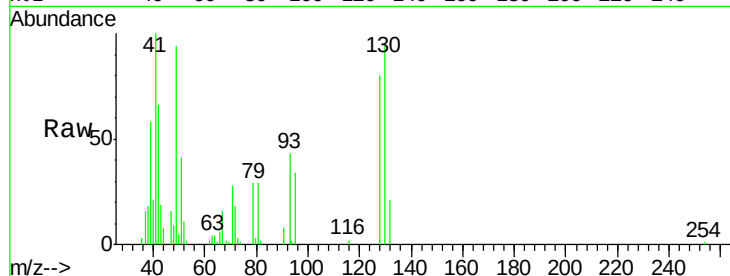
Ion Ratio Lower Upper

41 100

39 57.5 43.2 64.8

67 15.9 19.9 29.9#

52 11.4 10.2 15.4



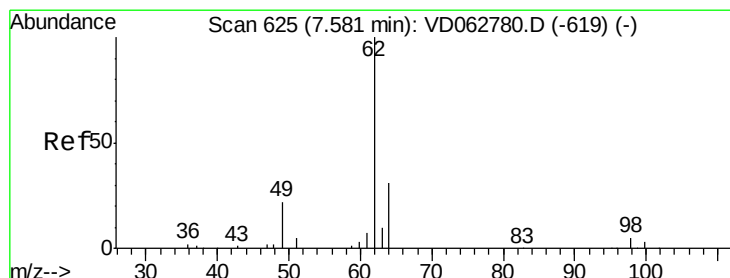
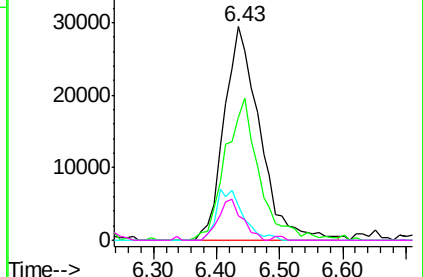
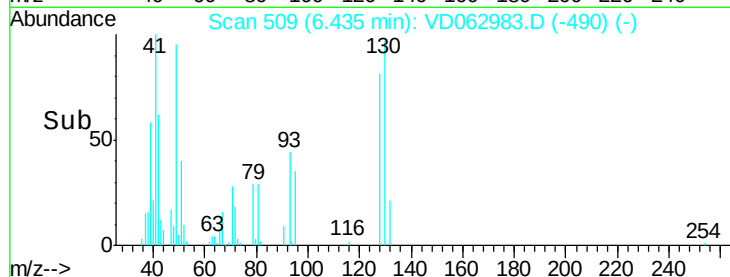
Abundance Ion 40.95 (40.65 to 41.65): VDC

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

Time-->



#42

1,2-Dichloroethane

Concen: 20.673 ug/l

RT: 7.57 min Scan# 624

Delta R.T. -0.01 min

Lab File: VD062983.D

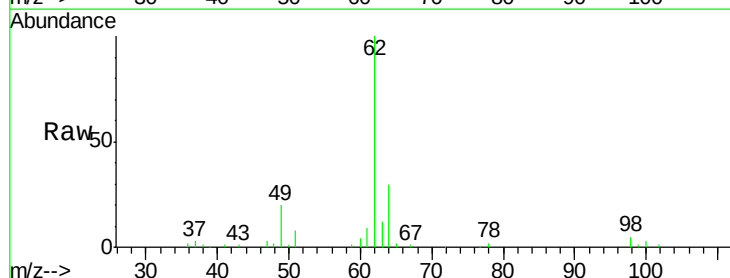
Acq: 1 Jul 2019 12:03

Tgt Ion: 62 Resp: 246172

Ion Ratio Lower Upper

62 100

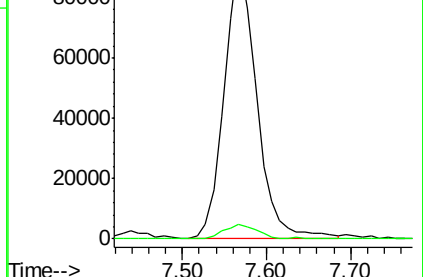
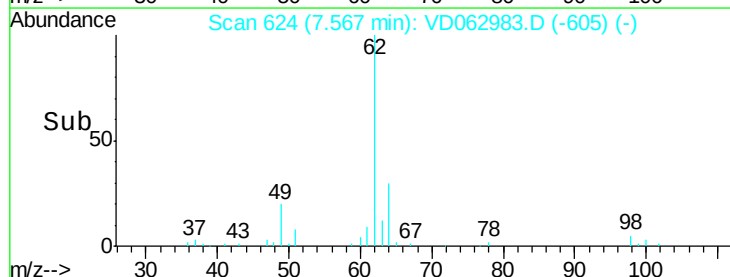
98 5.0 0.0 10.0

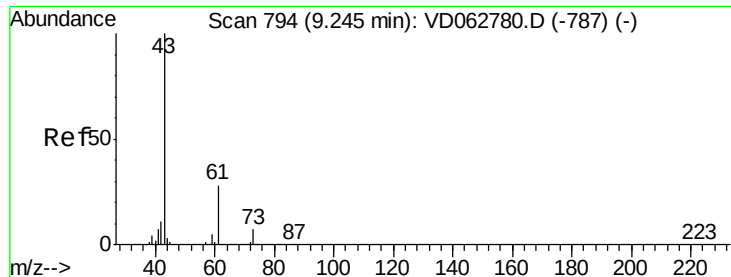


Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC

Time-->





#43

Isopropyl Acetate

Concen: 22.049 ug/l

RT: 9.23 min Scan# 793

Delta R.T. -0.01 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

Instrument :

MSVOA_D

ClientSampleId :

VD0701SBSD01

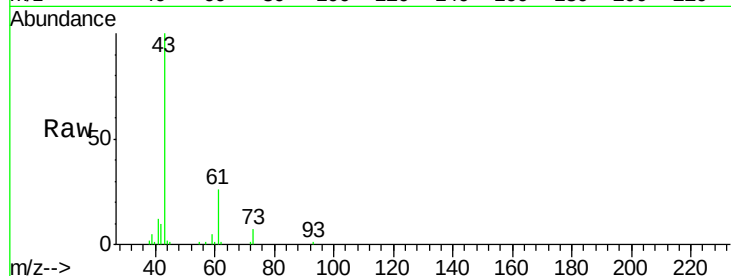
Tot Ion: 43 Resp: 125706

Ion Ratio Lower Upper

43 100

61 25.8 22.4 33.6

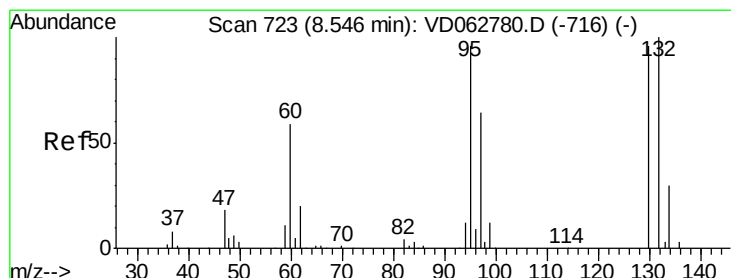
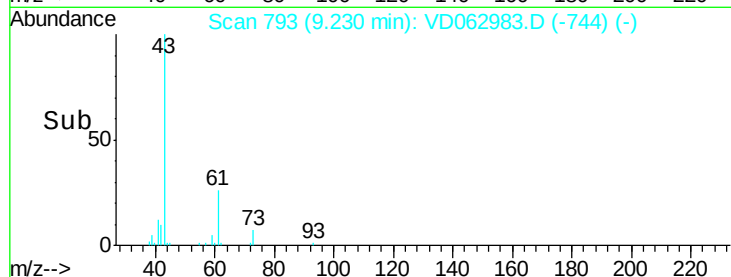
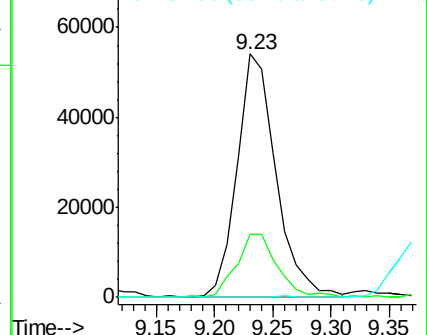
87 0.0 0.3 0.5#



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: 19.958 ug/l

RT: 8.53 min Scan# 722

Delta R.T. -0.01 min

Lab File: VD062983.D

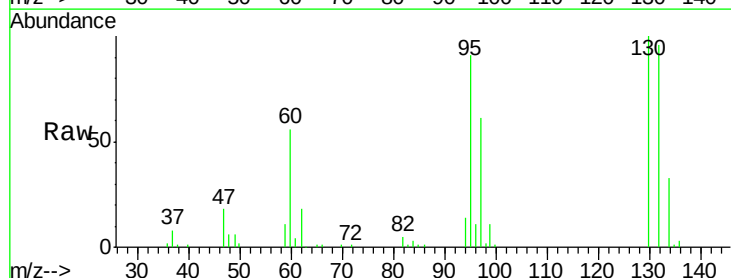
Acq: 1 Jul 2019 12:03

Tgt Ion:130 Resp: 170794

Ion Ratio Lower Upper

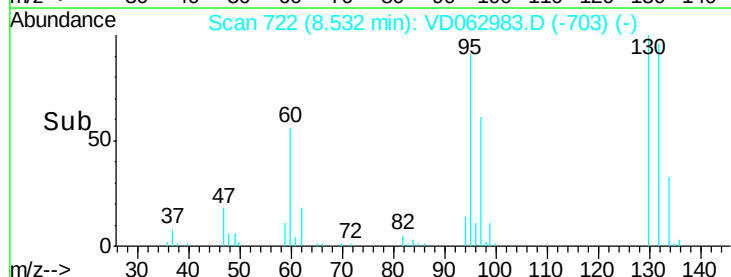
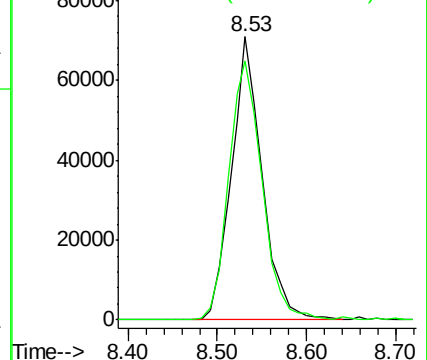
130 100

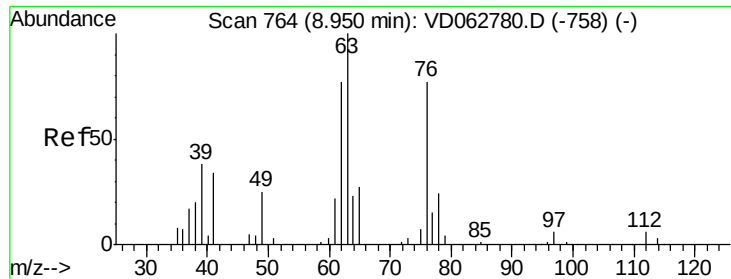
95 91.3 0.0 201.6



Abundance Ion 129.80 (129.50 to 130.50): VDC

Ion 94.90 (94.60 to 95.60): VDC

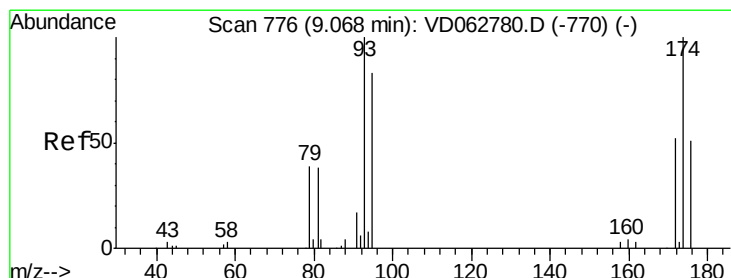
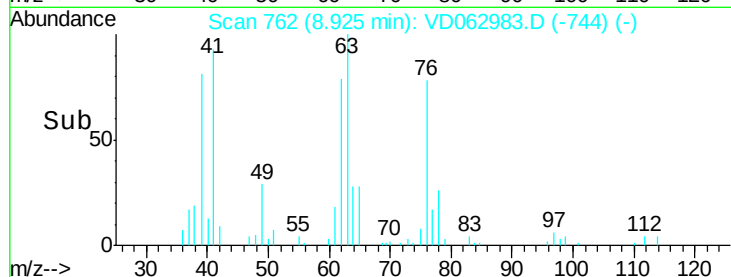
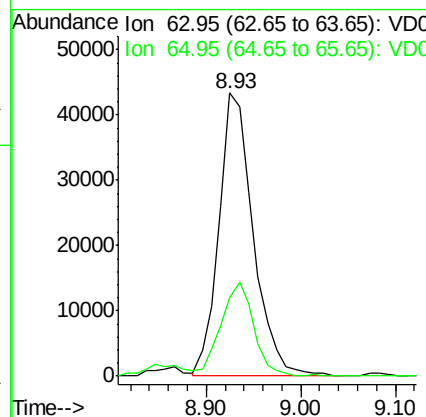
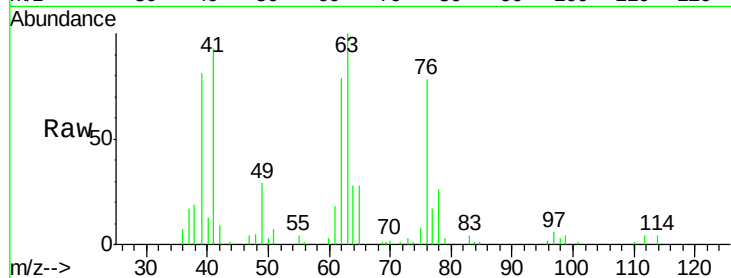




#45
 1,2-Dichloropropane
 Concen: 20.116 ug/l
 RT: 8.93 min Scan# 762
 Delta R.T. -0.02 min
 Lab File: VD062983.D
 Acq: 1 Jul 2019 12:03

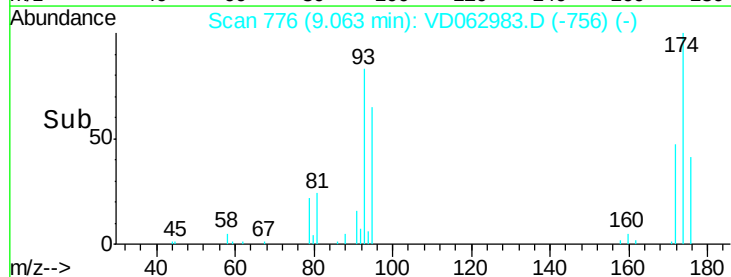
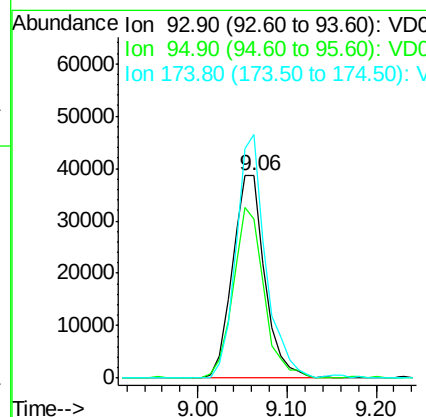
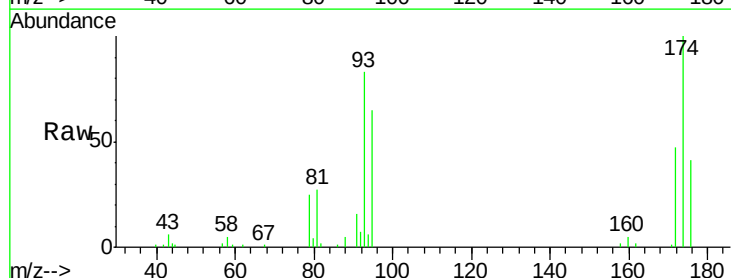
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0701SBSD01

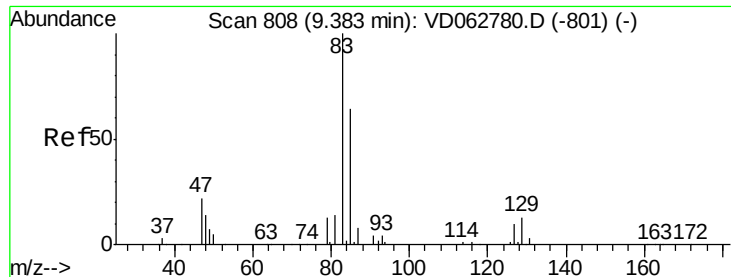
Tot Ion: 63 Resp: 109187
 Ion Ratio Lower Upper
 63 100
 65 27.7 24.2 36.2



#46
 Dibromomethane
 Concen: 21.030 ug/l
 RT: 9.06 min Scan# 776
 Delta R.T. -0.00 min
 Lab File: VD062983.D
 Acq: 1 Jul 2019 12:03

Tgt Ion: 93 Resp: 98053
 Ion Ratio Lower Upper
 93 100
 95 78.3 66.6 100.0
 174 120.2 79.7 119.5#





#47

Bromodichloromethane

Concen: 21.543 ug/l

RT: 9.37 min Scan# 807

Delta R.T. -0.01 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

Instrument :

MSVOA_D

ClientSampleId :

VD0701SBSD01

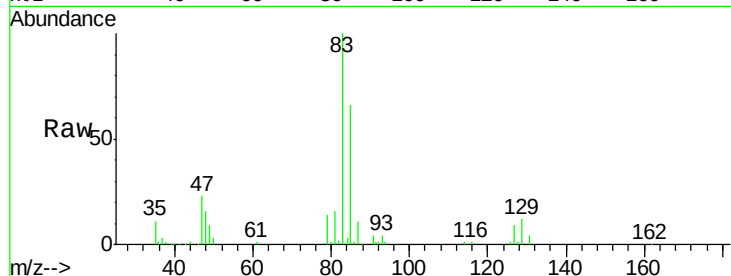
Tot Ion: 83 Resp: 260871

Ion Ratio Lower Upper

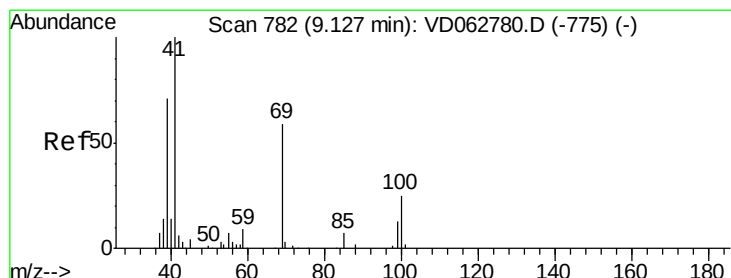
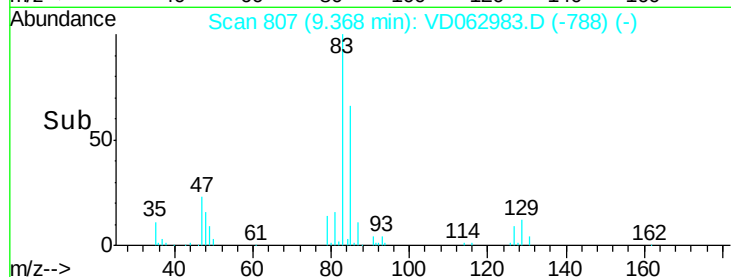
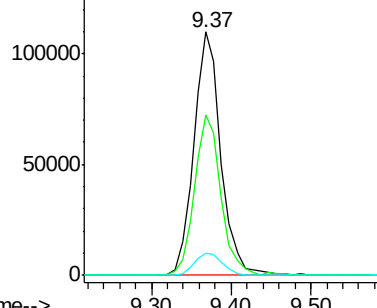
83 100

85 65.9 51.6 77.4

127 8.9 7.8 11.6



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: 19.646 ug/l

RT: 9.11 min Scan# 781

Delta R.T. -0.01 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

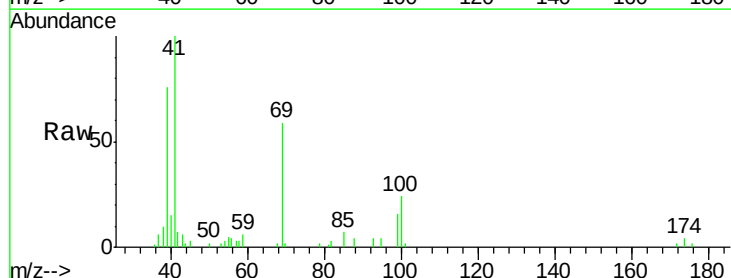
Tgt Ion: 41 Resp: 79595

Ion Ratio Lower Upper

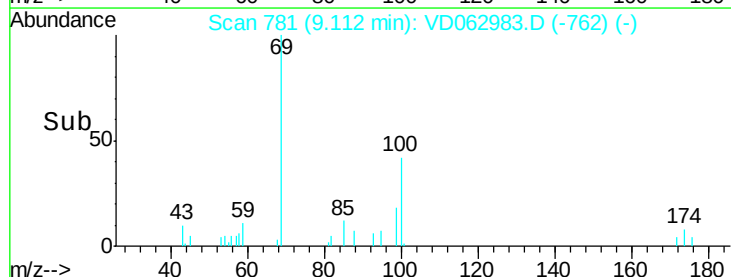
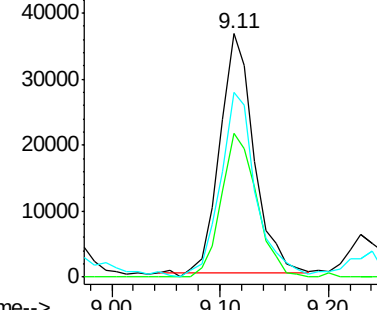
41 100

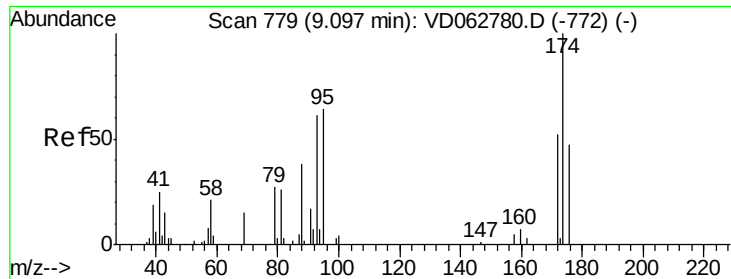
69 59.3 47.2 70.8

39 75.7 57.4 86.2



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

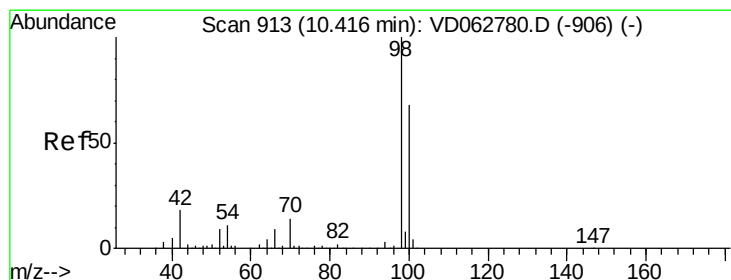
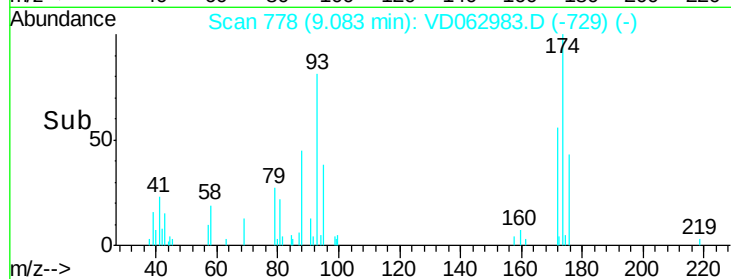
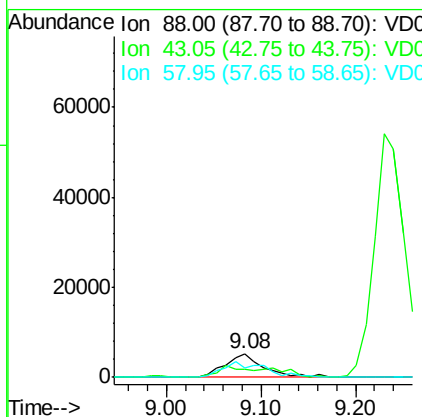
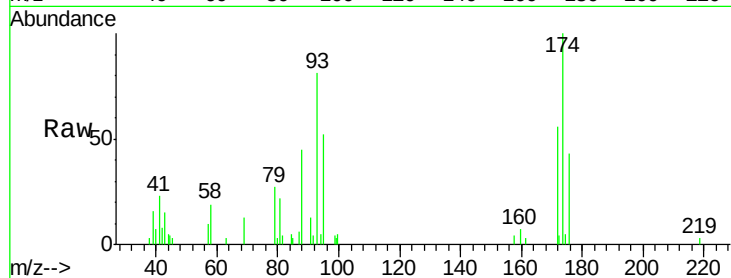




#49
1,4-Dioxane
Concen: 435.912 ug/l
RT: 9.08 min Scan# 778
Delta R.T. -0.01 min
Lab File: VD062983.D
Acq: 1 Jul 2019 12:03

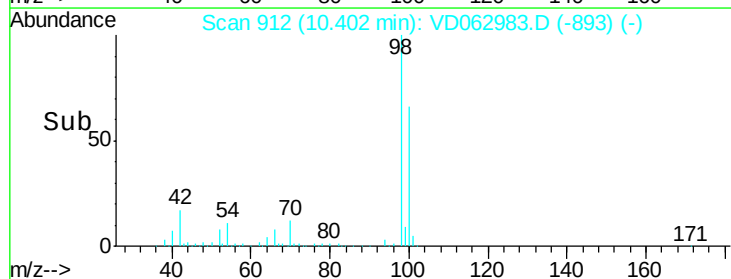
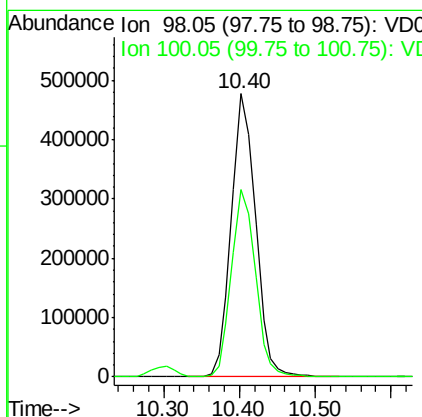
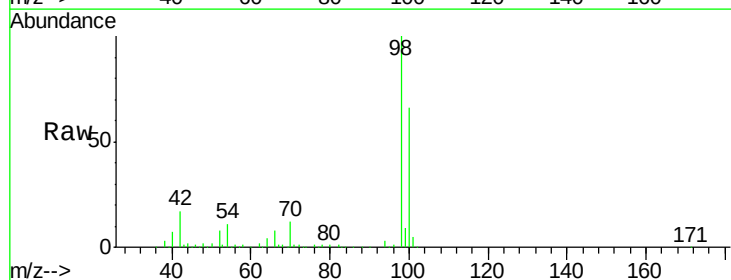
Instrument :
MSVOA_D
ClientSampleId :
VD0701SBSD01

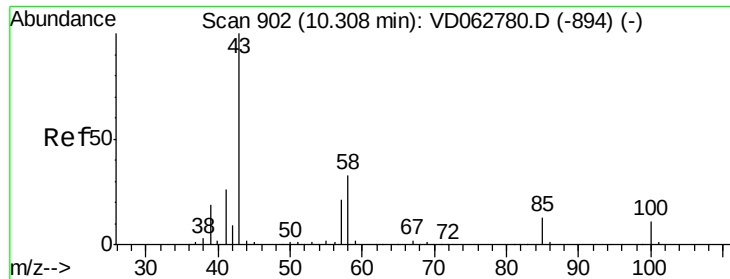
Tot Ion: 88 Resp: 14693
Ion Ratio Lower Upper
88 100
43 33.9 32.1 48.1
58 41.7 44.1 66.1#



#50
Toluene-d8
Concen: 50.407 ug/l
RT: 10.40 min Scan# 912
Delta R.T. -0.01 min
Lab File: VD062983.D
Acq: 1 Jul 2019 12:03

Tgt Ion: 98 Resp: 1062672
Ion Ratio Lower Upper
98 100
100 66.3 54.7 82.1





#51

4-Methyl-2-Pentanone

Concen: 104.704 ug/l

RT: 10.29 min Scan# 901

Delta R.T. -0.01 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

Instrument :

MSVOA_D

ClientSampleId :

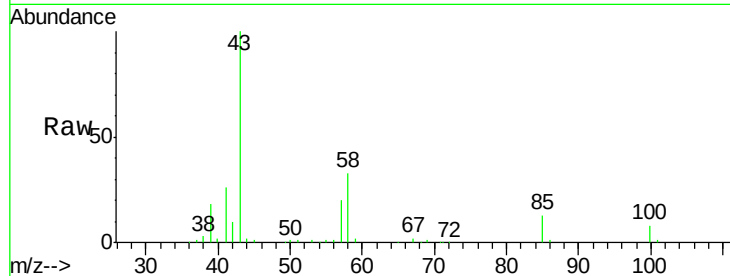
VD0701SBS01

Tot Ion: 43 Resp: 423221

Ion Ratio Lower Upper

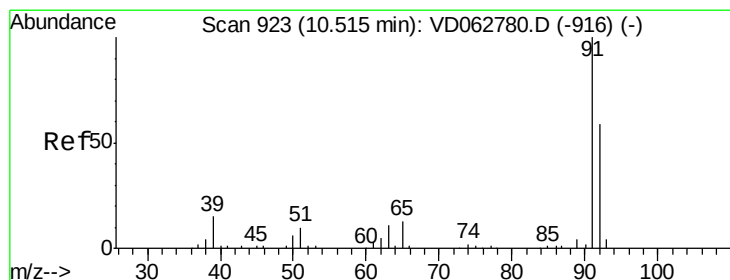
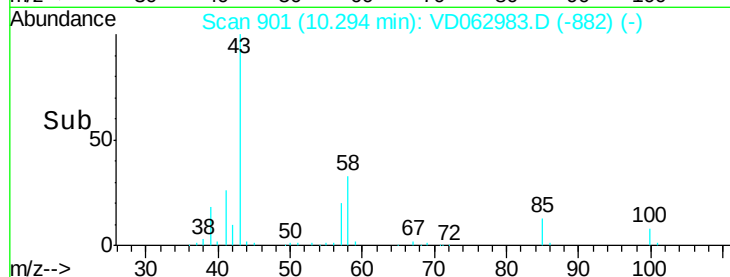
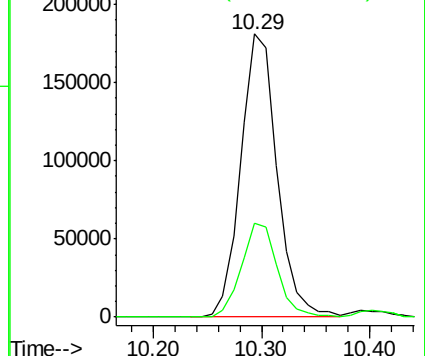
43 100

58 33.4 26.6 40.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 19.021 ug/l

RT: 10.50 min Scan# 922

Delta R.T. -0.01 min

Lab File: VD062983.D

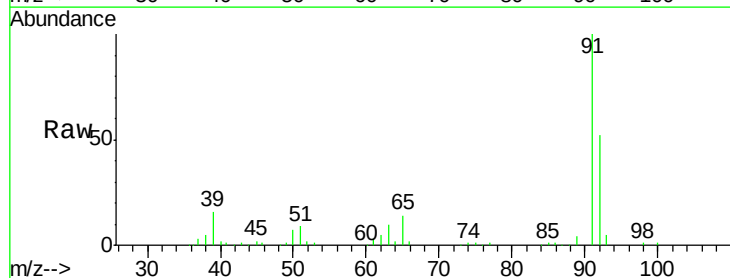
Acq: 1 Jul 2019 12:03

Tgt Ion: 92 Resp: 279096

Ion Ratio Lower Upper

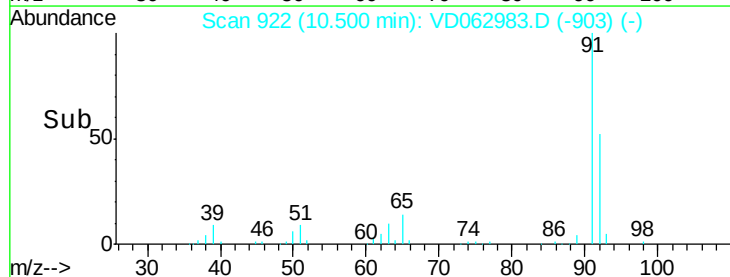
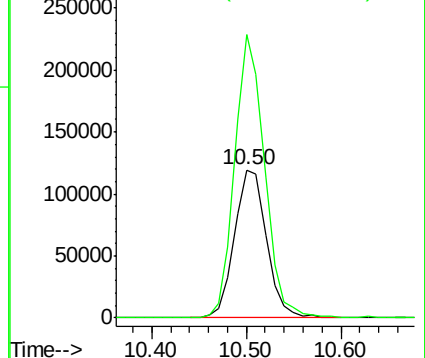
92 100

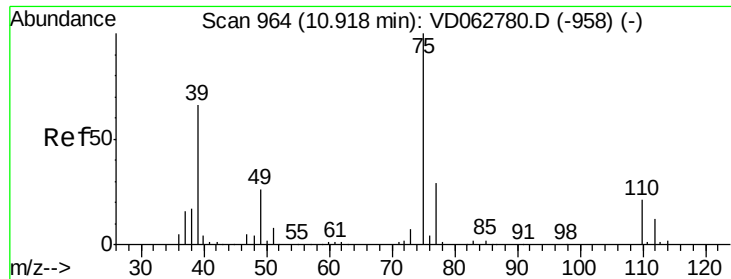
91 191.0 136.3 204.5



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#53

t-1,3-Dichloropropene

Concen: 22.029 ug/l

RT: 10.91 min Scan# 964

Delta R.T. -0.00 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

Instrument :

MSVOA_D

ClientSampleId :

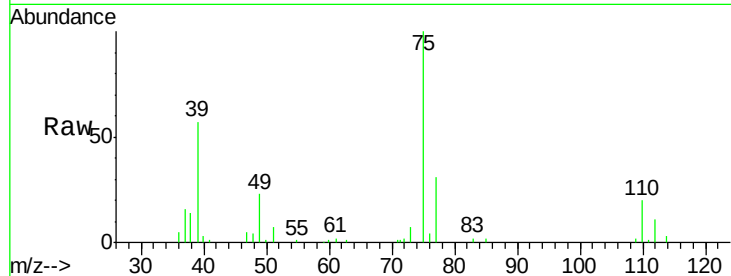
VD0701SBSD01

Tot Ion: 75 Resp: 218330

Ion Ratio Lower Upper

75 100

77 30.6 23.2 34.8



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

10.91

120000

100000

80000

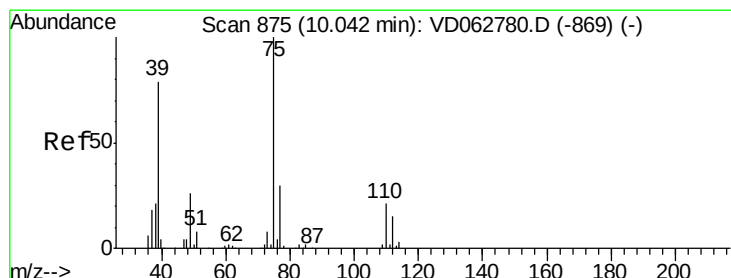
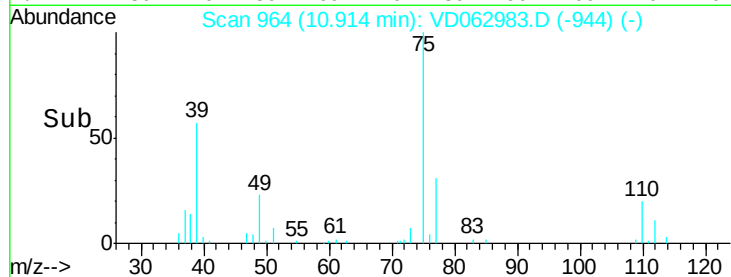
60000

40000

20000

0

Time--> 10.80 10.90 11.00



#54

cis-1,3-Dichloropropene

Concen: 21.813 ug/l

RT: 10.04 min Scan# 875

Delta R.T. -0.00 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

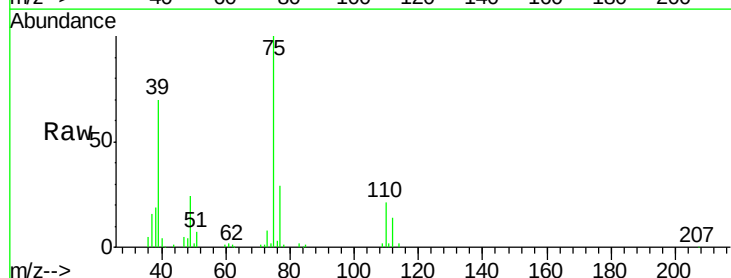
Tgt Ion: 75 Resp: 234979

Ion Ratio Lower Upper

75 100

77 28.7 24.2 36.2

39 70.3 63.5 95.3



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

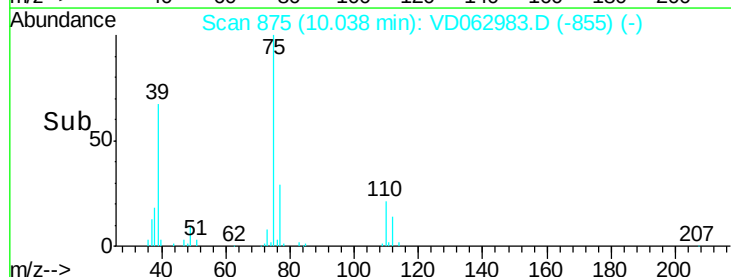
10.04

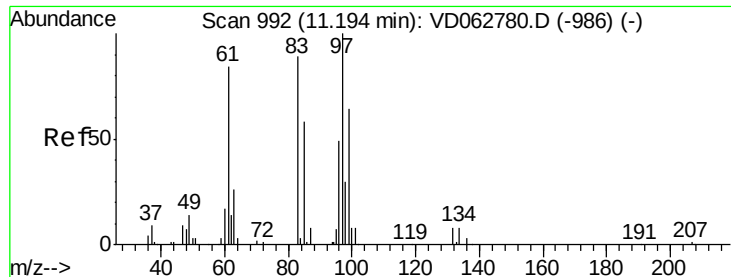
100000

50000

0

Time--> 9.90 10.00 10.10 10.20





#55

1,1,2-Trichloroethane

Concen: 19.497 ug/l

RT: 11.19 min Scan# 992

Delta R.T. -0.00 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

Instrument :

MSVOA_D

ClientSampleId :

VD0701SBSD01

Tot Ion: 97 Resp: 98286

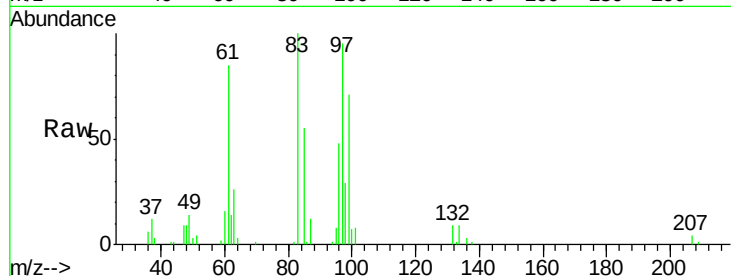
Ion Ratio Lower Upper

97 100

83 105.2 71.0 106.4

85 58.4 46.6 69.8

99 75.1 51.4 77.0

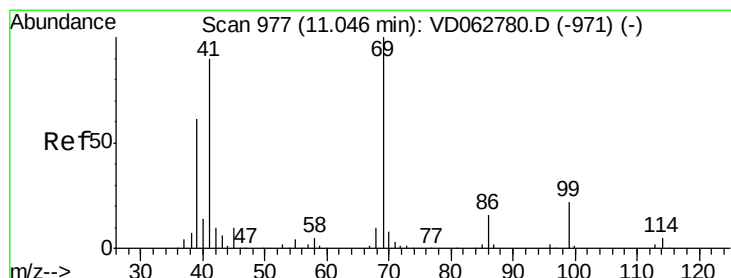
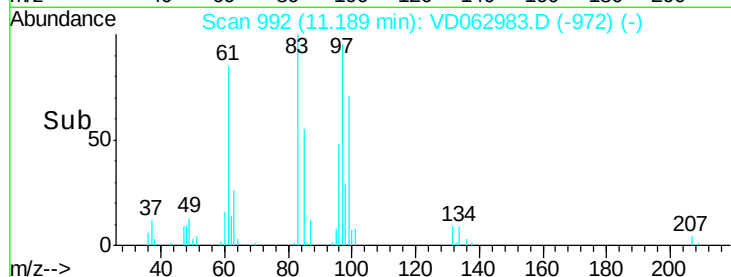
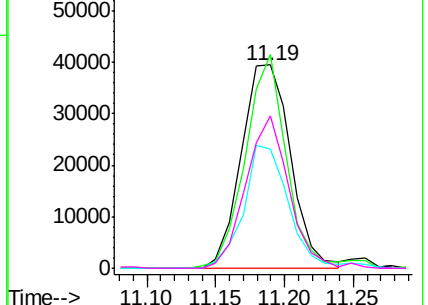


Abundance Ion 96.85 (96.55 to 97.55): VDC

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: 21.071 ug/l

RT: 11.03 min Scan# 976

Delta R.T. -0.01 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

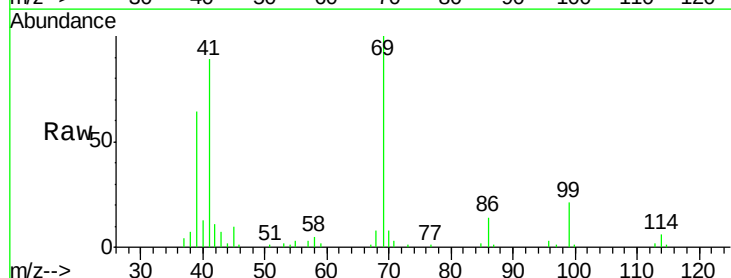
Tgt Ion: 69 Resp: 113517

Ion Ratio Lower Upper

69 100

41 88.7 72.0 108.0

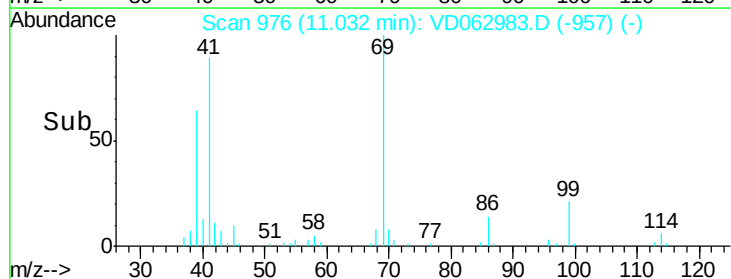
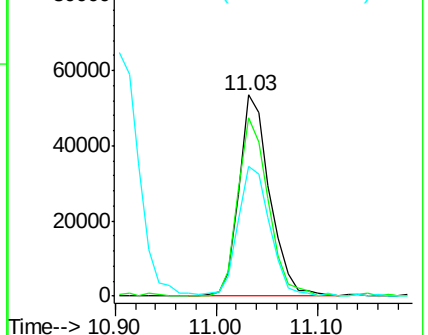
39 64.3 49.5 74.3

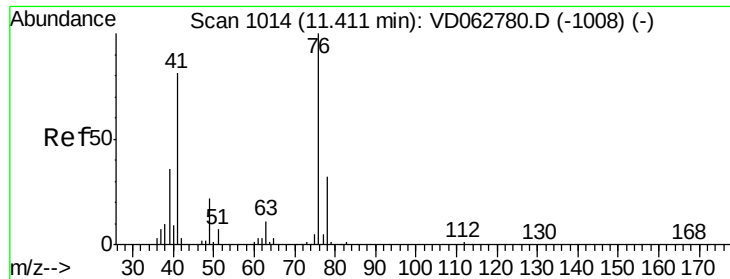


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 21.401 ug/l

RT: 11.41 min Scan# 1014

Delta R.T. -0.00 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

Instrument :

MSVOA_D

ClientSampleId :

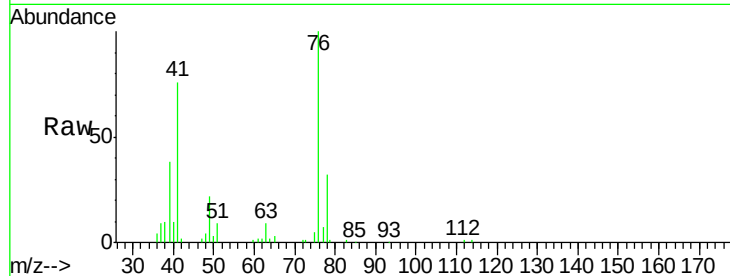
VD0701SBS01

Tot Ion: 76 Resp: 165192

Ion Ratio Lower Upper

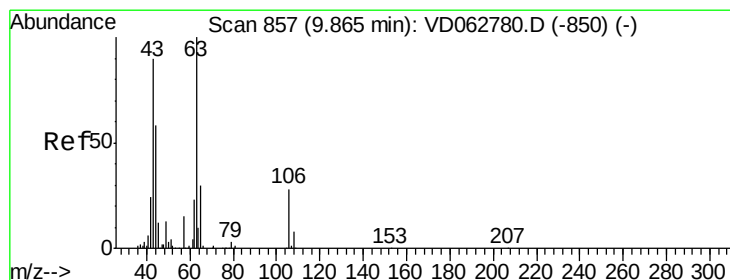
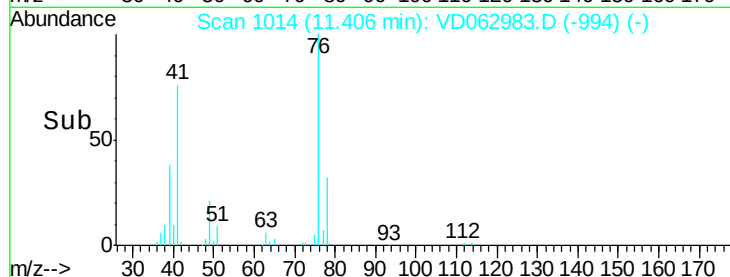
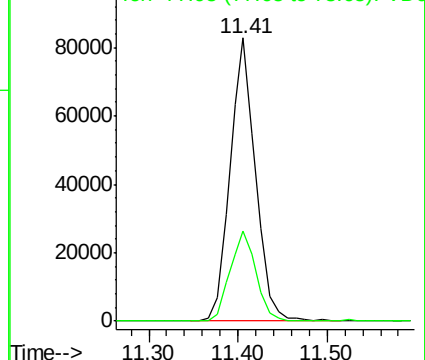
76 100

78 31.8 25.4 38.0



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 105.472 ug/l

RT: 9.85 min Scan# 856

Delta R.T. -0.01 min

Lab File: VD062983.D

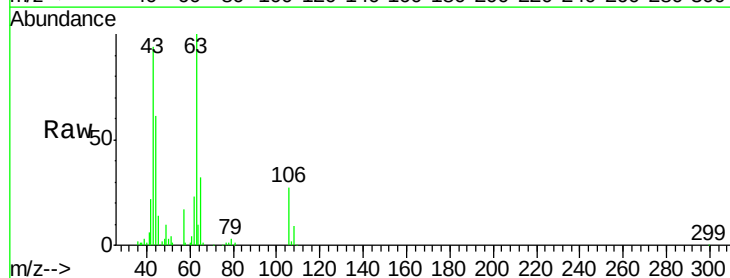
Acq: 1 Jul 2019 12:03

Tgt Ion: 63 Resp: 291716

Ion Ratio Lower Upper

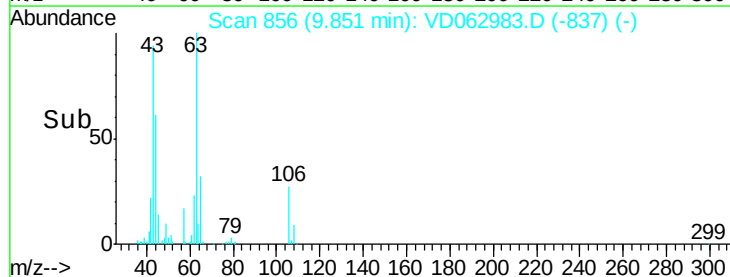
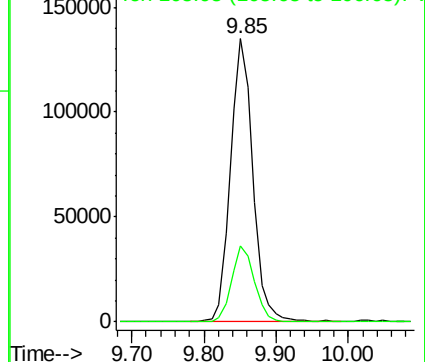
63 100

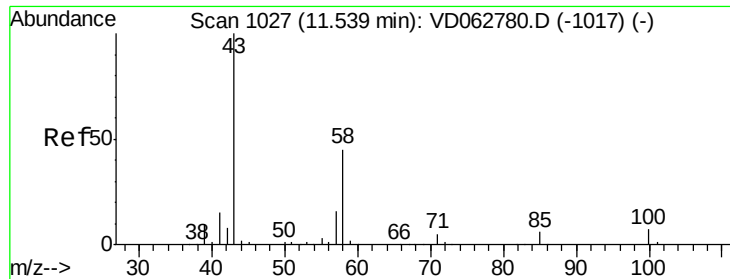
106 27.0 22.1 33.1



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

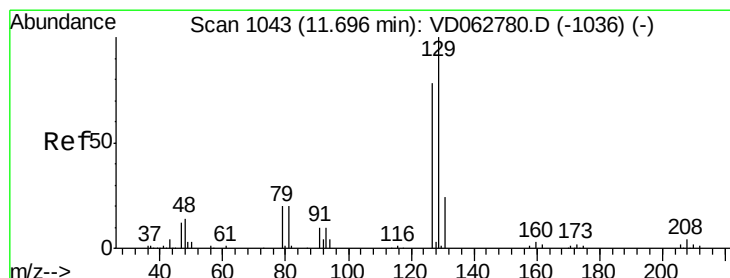
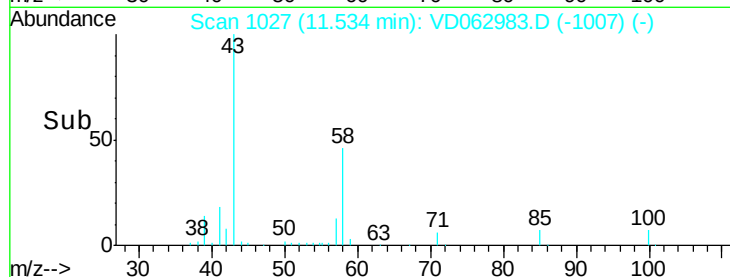
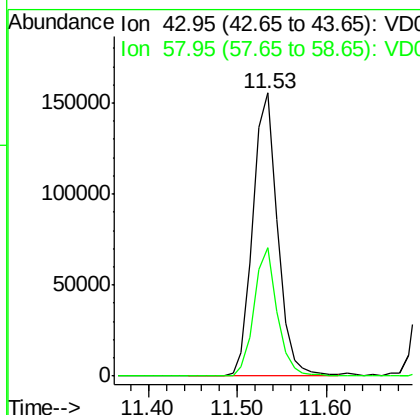
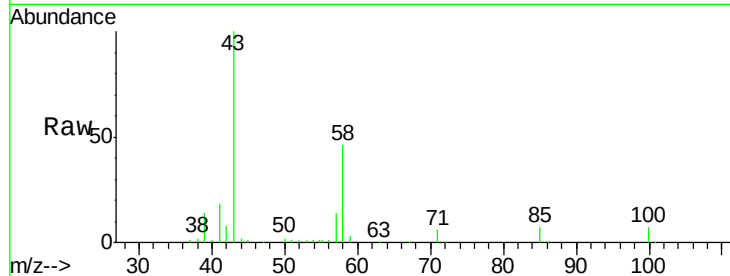




#59
2-Hexanone
Concen: 103.292 ug/l
RT: 11.53 min Scan# 1027
Delta R.T. -0.00 min
Lab File: VD062983.D
Acq: 1 Jul 2019 12:03

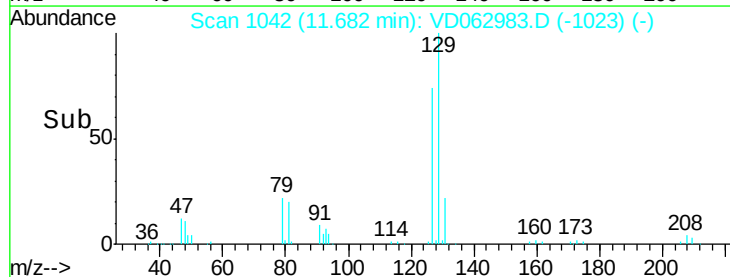
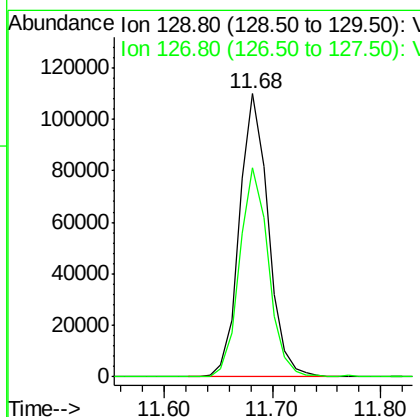
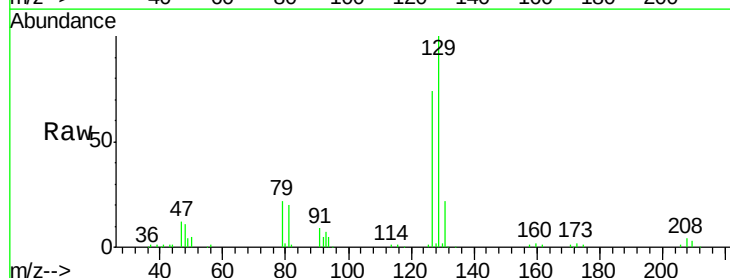
Instrument :
MSVOA_D
ClientSampleId :
VD0701SBSD01

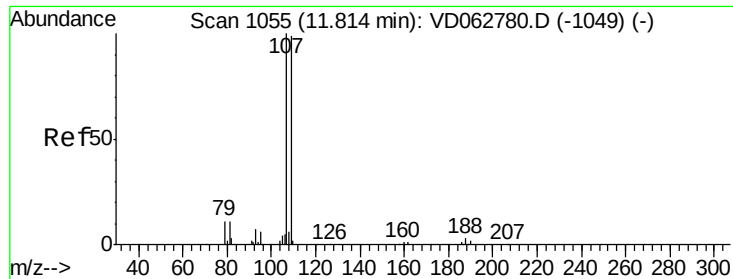
Tot Ion: 43 Resp: 297351
Ion Ratio Lower Upper
43 100
58 45.6 22.4 67.2



#60
Dibromochloromethane
Concen: 21.637 ug/l
RT: 11.68 min Scan# 1042
Delta R.T. -0.01 min
Lab File: VD062983.D
Acq: 1 Jul 2019 12:03

Tgt Ion:129 Resp: 203168
Ion Ratio Lower Upper
129 100
127 73.8 38.9 116.6





#61

1,2-Dibromoethane

Concen: 21.753 ug/l

RT: 11.80 min Scan# 1054

Delta R.T. -0.01 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

Instrument :

MSVOA_D

ClientSampleId :

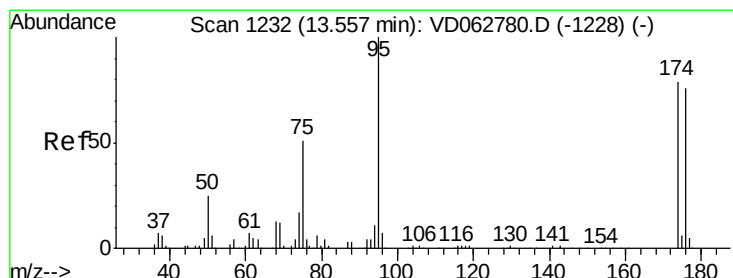
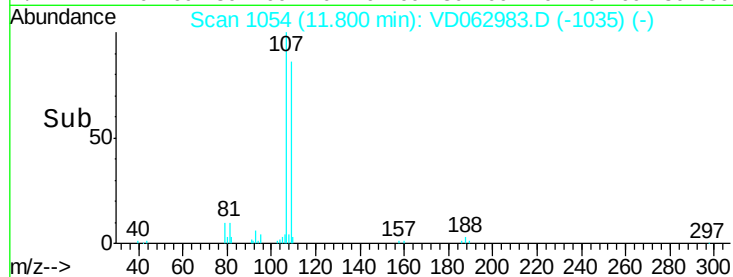
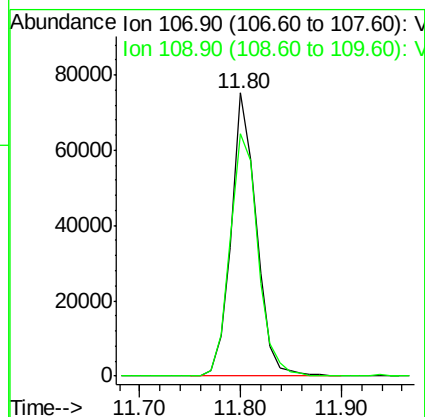
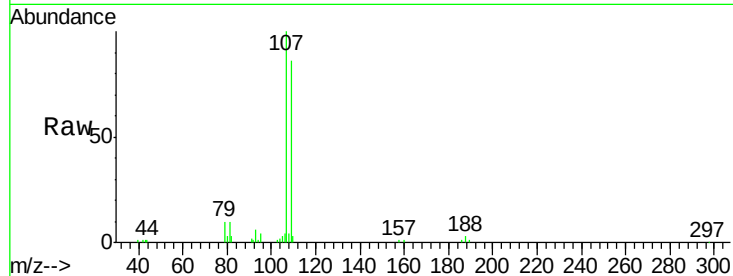
VD0701SBSD01

Tot Ion:107 Resp: 129513

Ion Ratio Lower Upper

107 100

109 85.5 79.3 118.9



#62

4-Bromofluorobenzene

Concen: 46.551 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

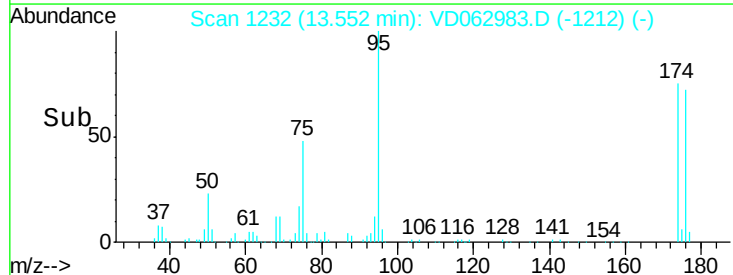
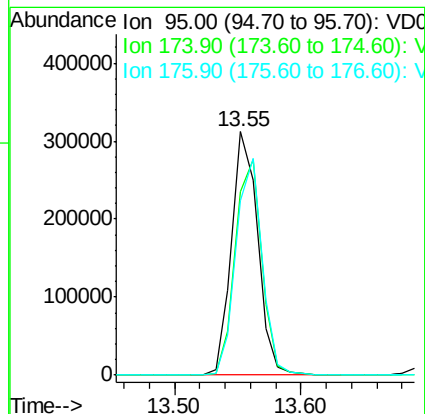
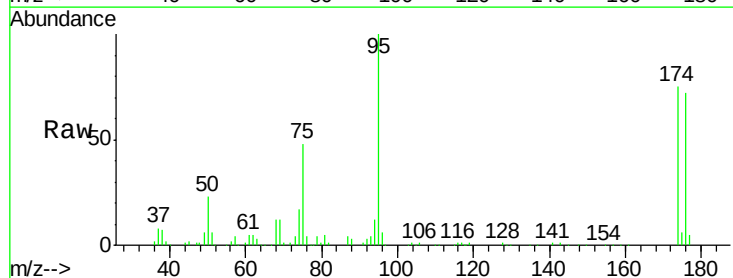
Tgt Ion: 95 Resp: 446233

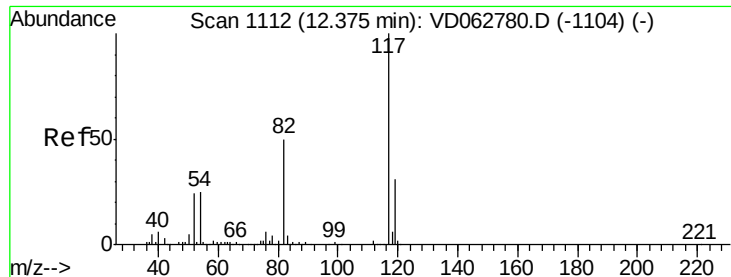
Ion Ratio Lower Upper

95 100

174 75.3 0.0 158.0

176 71.9 0.0 151.6

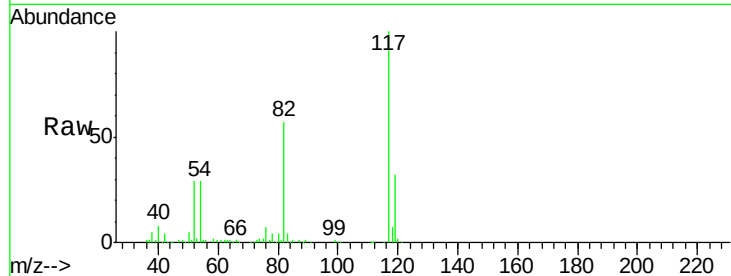




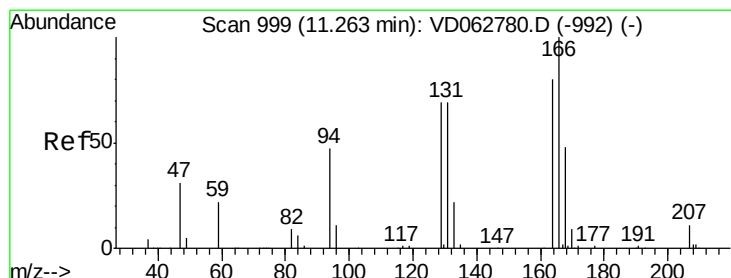
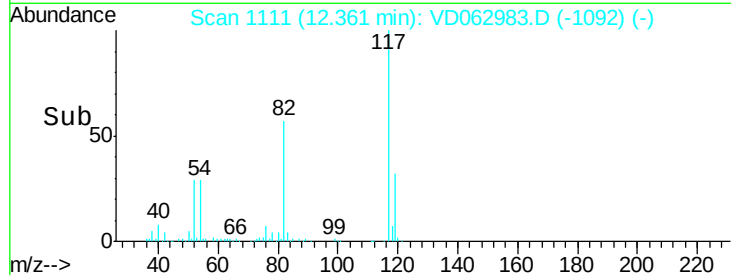
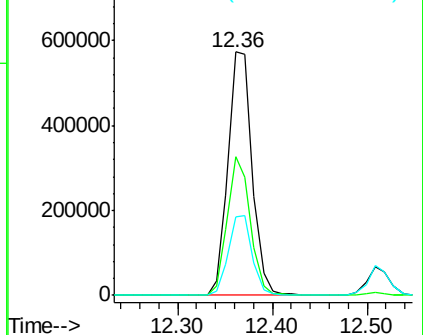
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.01 min
Lab File: VD062983.D
Acq: 1 Jul 2019 12:03

Instrument :
MSVOA_D
ClientSampleId :
VD0701SBSD01

Tot Ion:117 Resp: 1019010
Ion Ratio Lower Upper
117 100
82 56.8 40.4 60.6
119 32.4 25.2 37.8

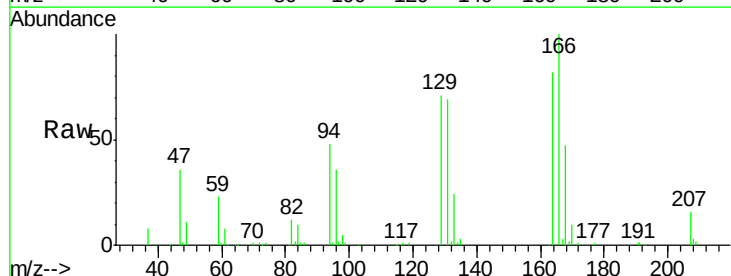


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

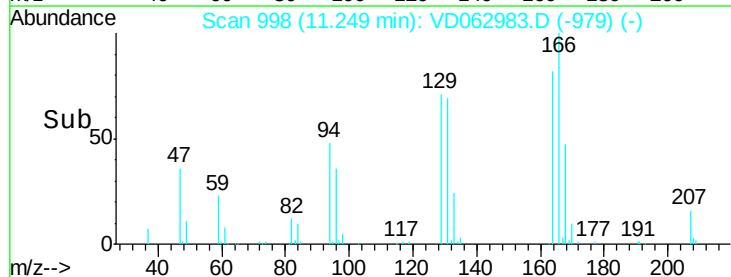
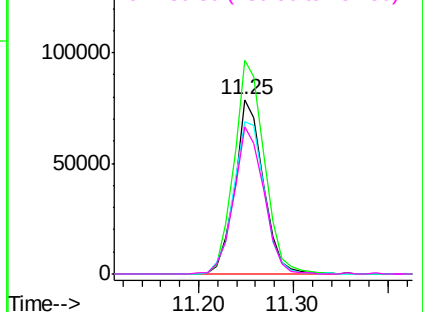


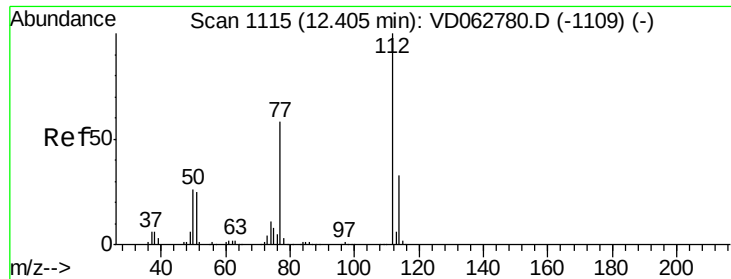
#64
Tetrachloroethene
Concen: 19.555 ug/l
RT: 11.25 min Scan# 998
Delta R.T. -0.01 min
Lab File: VD062983.D
Acq: 1 Jul 2019 12:03

Tgt Ion:164 Resp: 164005
Ion Ratio Lower Upper
164 100
166 122.2 100.6 150.8
129 86.9 69.4 104.0
131 84.0 69.3 103.9



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

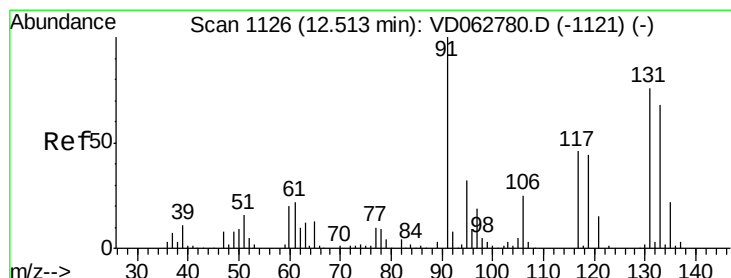
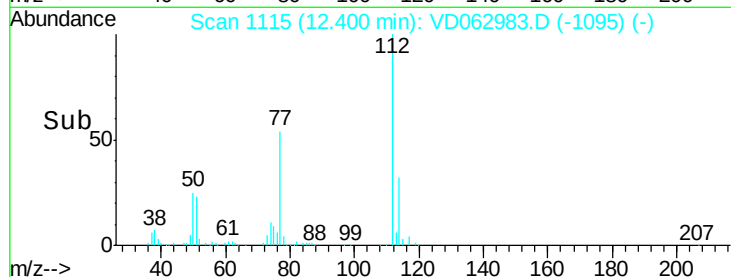
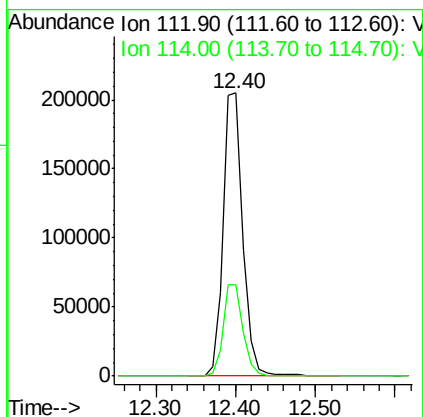
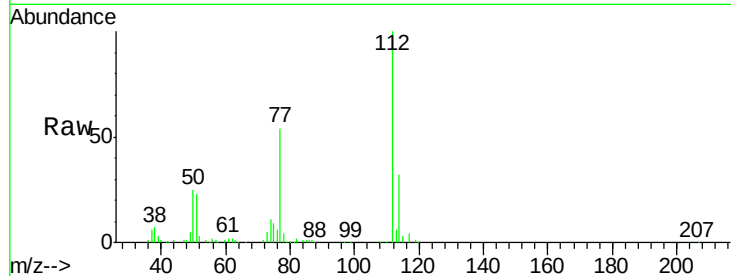




#65
Chlorobenzene
Concen: 18.922 ug/l
RT: 12.40 min Scan# 1115
Delta R.T. -0.00 min
Lab File: VD062983.D
Acq: 1 Jul 2019 12:03

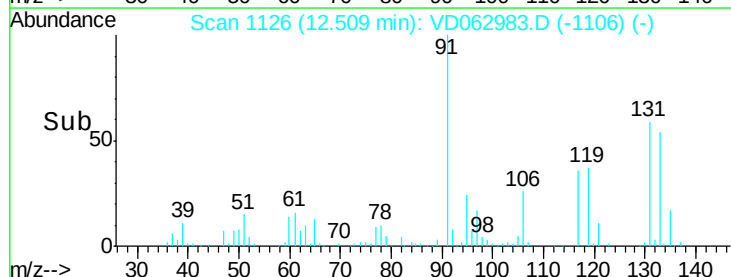
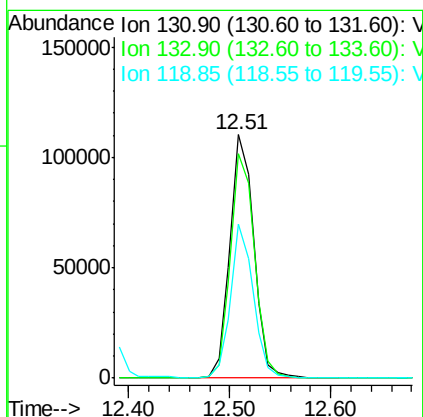
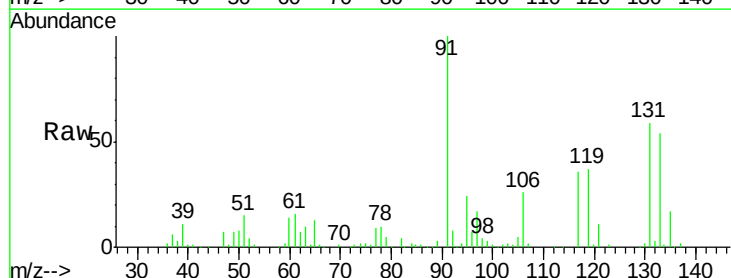
Instrument :
MSVOA_D
ClientSampleId :
VD0701SBSD01

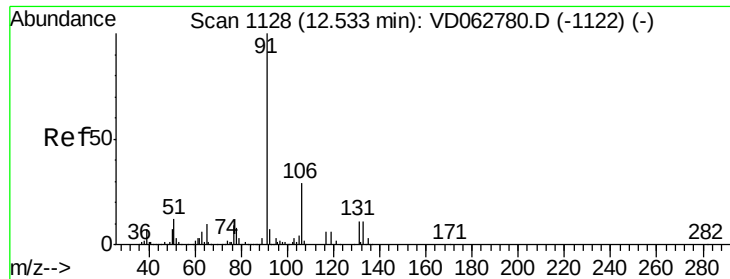
Tot Ion:112 Resp: 357845
Ion Ratio Lower Upper
112 100
114 32.3 26.3 39.5



#66
1,1,1,2-Tetrachloroethane
Concen: 20.479 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. -0.00 min
Lab File: VD062983.D
Acq: 1 Jul 2019 12:03

Tgt Ion:131 Resp: 181120
Ion Ratio Lower Upper
131 100
133 92.1 44.5 133.3
119 63.1 28.6 85.9

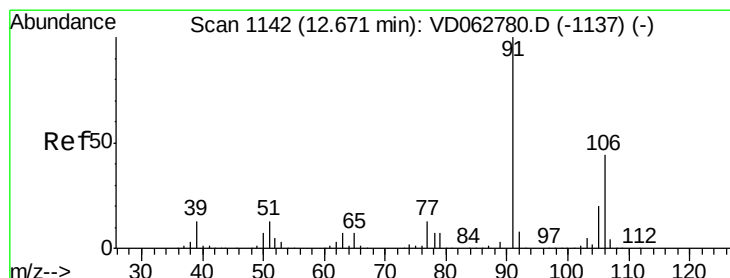
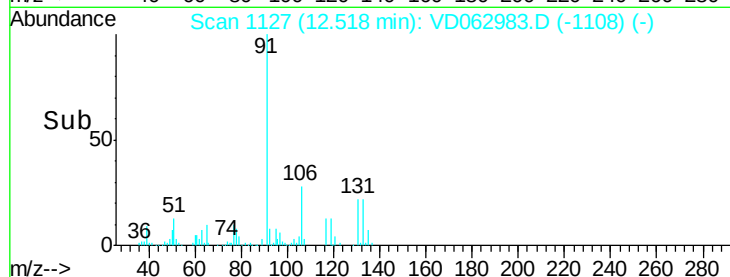
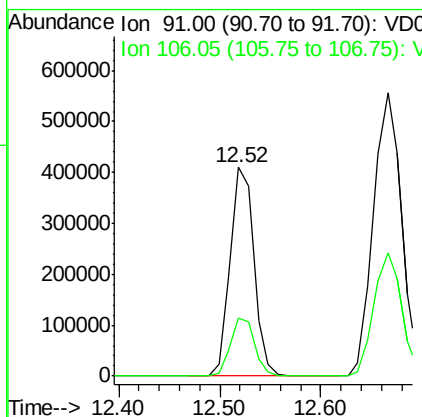
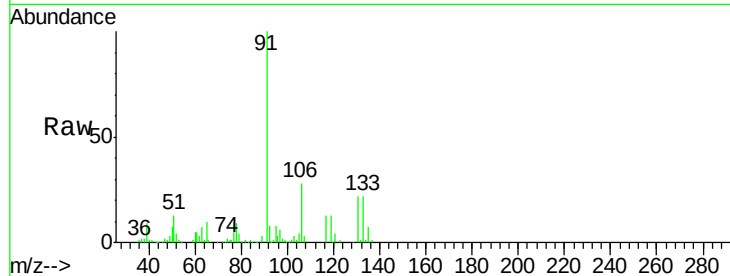




#67
Ethyl Benzene
Concen: 19.802 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. -0.01 min
Lab File: VD062983.D
Acq: 1 Jul 2019 12:03

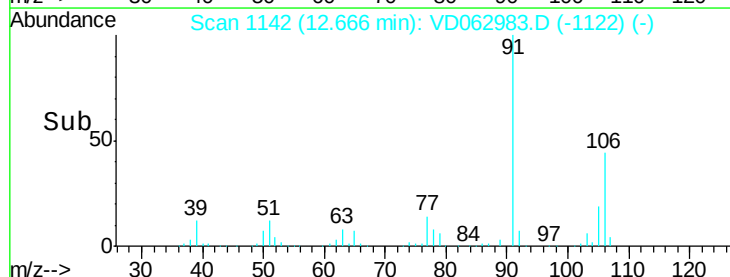
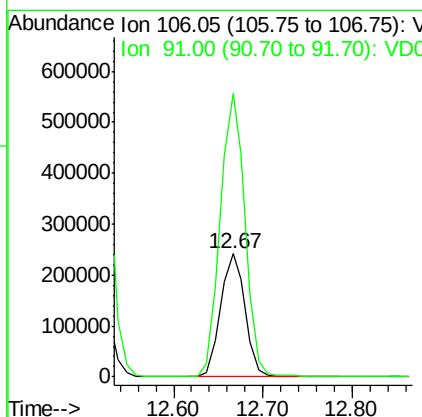
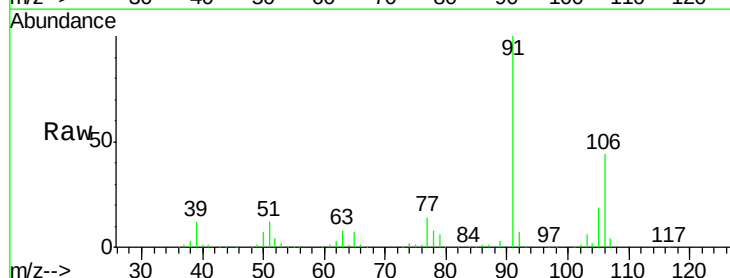
Instrument :
MSVOA_D
ClientSampleId :
VD0701SBSD01

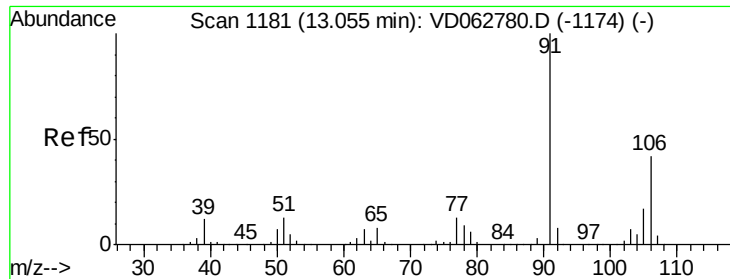
Tot Ion: 91 Resp: 672341
Ion Ratio Lower Upper
91 100
106 27.6 23.1 34.7



#68
m/p-Xylenes
Concen: 39.718 ug/l
RT: 12.67 min Scan# 1142
Delta R.T. -0.00 min
Lab File: VD062983.D
Acq: 1 Jul 2019 12:03

Tgt Ion: 106 Resp: 469693
Ion Ratio Lower Upper
106 100
91 229.6 183.0 274.6

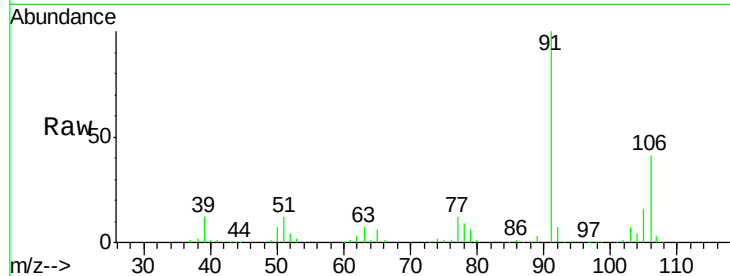




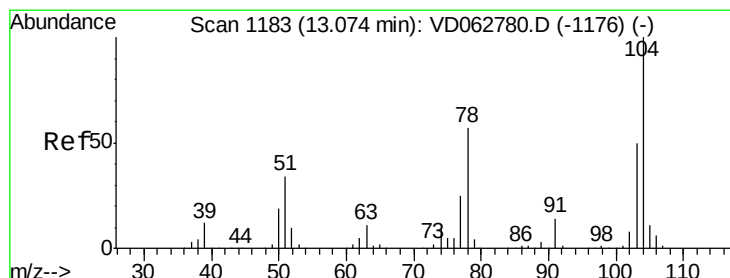
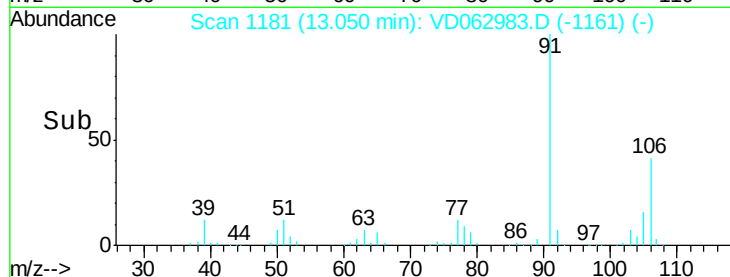
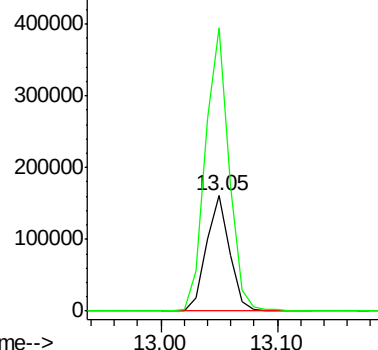
#69
o-Xylene
Concen: 20.638 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VD062983.D
Acq: 1 Jul 2019 12:03

Instrument :
MSVOA_D
ClientSampleId :
VD0701SBSD01

Tot Ion:106 Resp: 223104
Ion Ratio Lower Upper
106 100
91 246.0 117.9 353.6

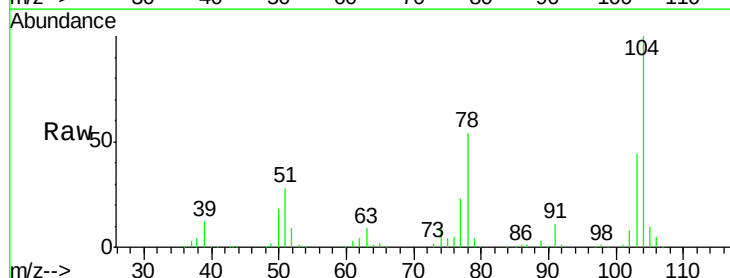


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

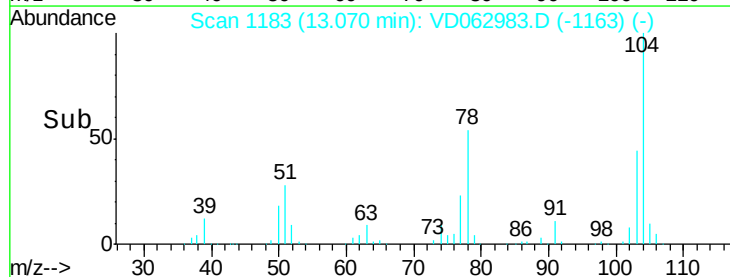
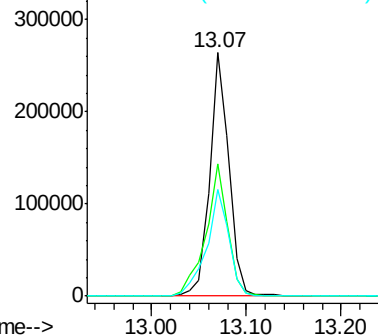


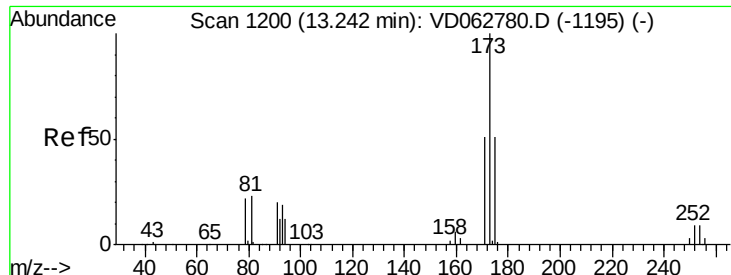
#70
Styrene
Concen: 19.516 ug/l
RT: 13.07 min Scan# 1183
Delta R.T. -0.00 min
Lab File: VD062983.D
Acq: 1 Jul 2019 12:03

Tgt Ion:104 Resp: 370571
Ion Ratio Lower Upper
104 100
78 54.2 45.4 68.2
103 44.0 39.7 59.5



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: 20.422 ug/l

RT: 13.24 min Scan# 1200

Delta R.T. -0.00 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

Instrument :

MSVOA_D

ClientSampleId :

VD0701SBSD01

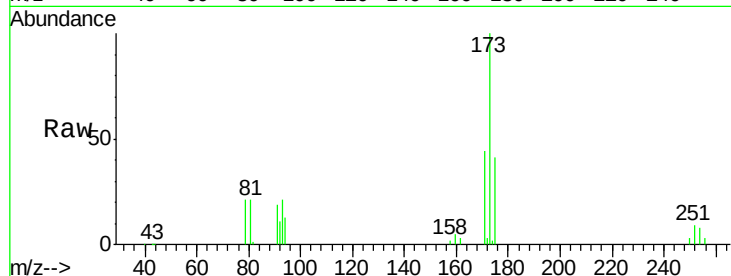
Tot Ion:173 Resp: 123748

Ion Ratio Lower Upper

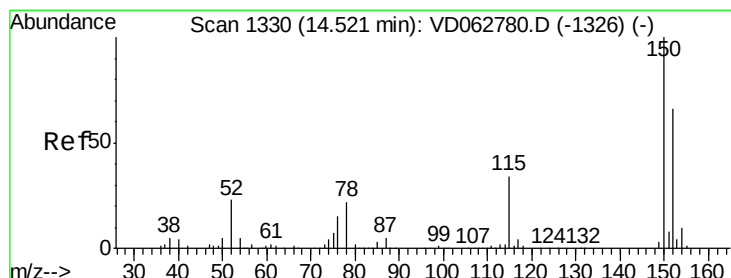
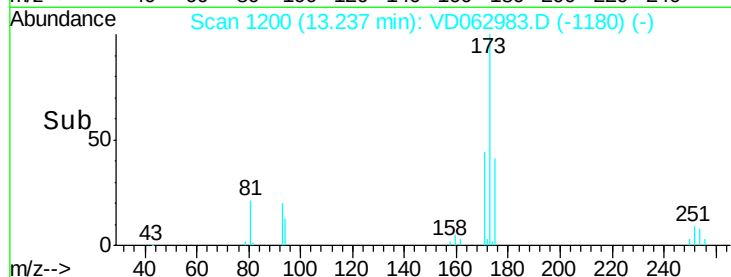
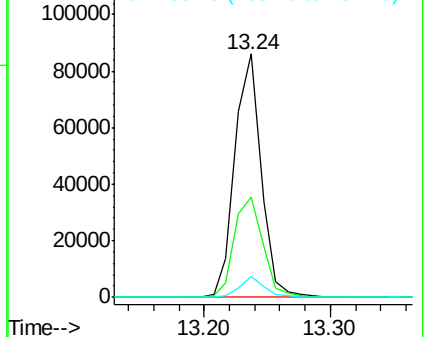
173 100

175 41.0 25.3 75.9

254 8.3 7.1 10.7



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: 14.52 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

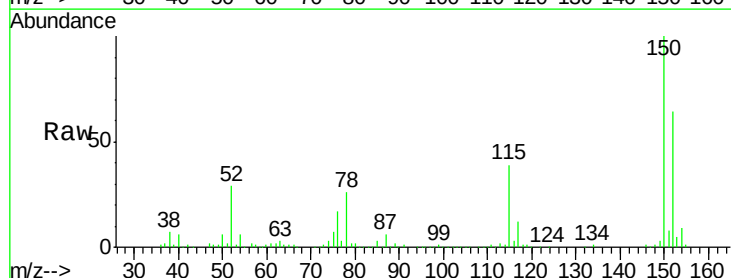
Tgt Ion:152 Resp: 553595

Ion Ratio Lower Upper

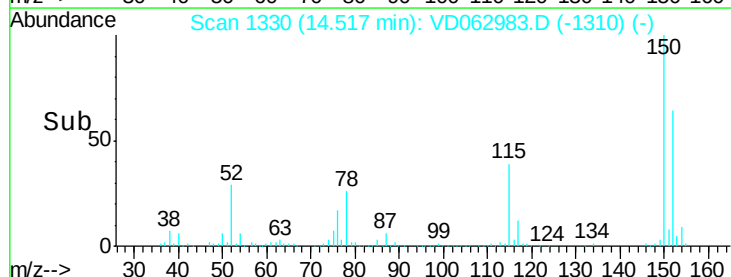
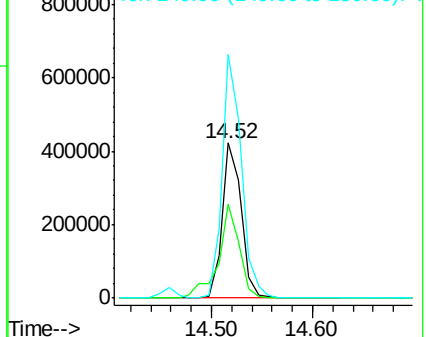
152 100

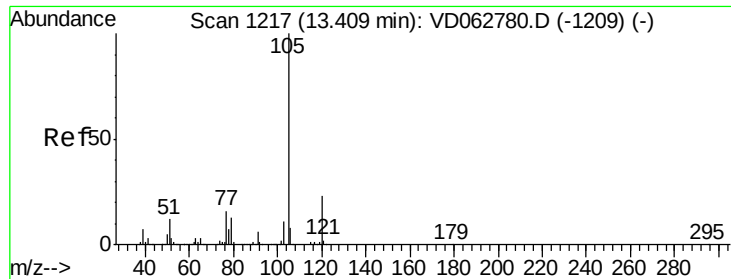
115 60.8 29.2 87.6

150 157.4 0.0 305.8



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: 19.246 ug/l

RT: 13.40 min Scan# 1217

Delta R.T. -0.00 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

Instrument :

MSVOA_D

ClientSampleId :

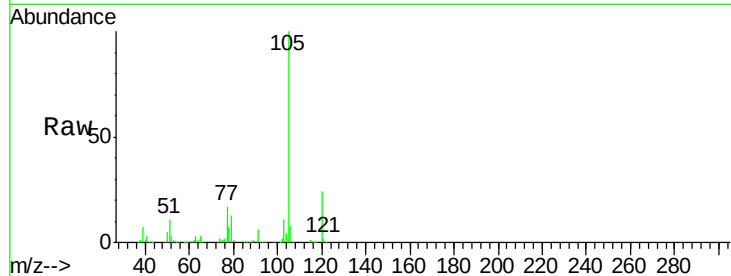
VD0701SBSD01

Tot Ion:105 Resp: 683131

Ion Ratio Lower Upper

105 100

120 23.7 11.6 34.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

600000

500000

400000

300000

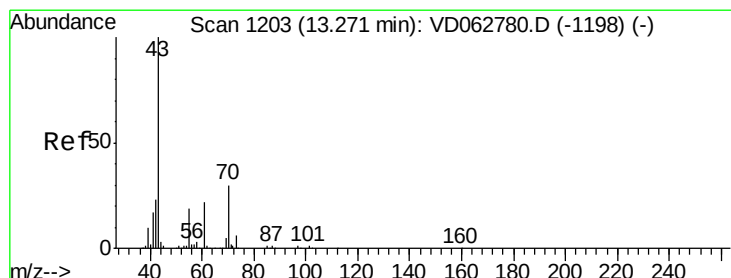
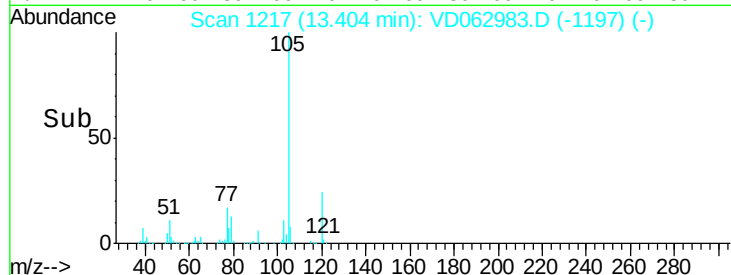
200000

100000

0

13.30 13.40 13.50

Time-->



#74

N-ethyl acetate

Concen: 21.451 ug/l

RT: 13.27 min Scan# 1203

Delta R.T. -0.00 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

Tgt Ion: 43 Resp: 184905

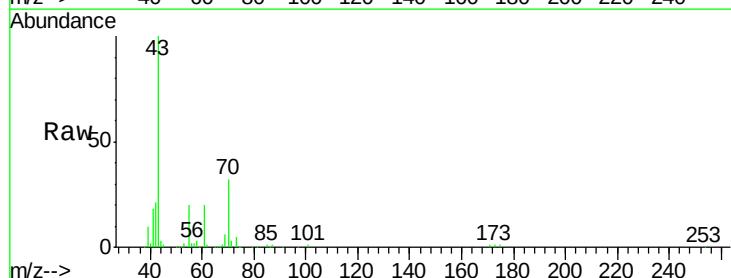
Ion Ratio Lower Upper

43 100

70 31.8 24.4 36.6

55 19.5 15.2 22.8

61 20.3 17.4 26.2



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

200000

150000

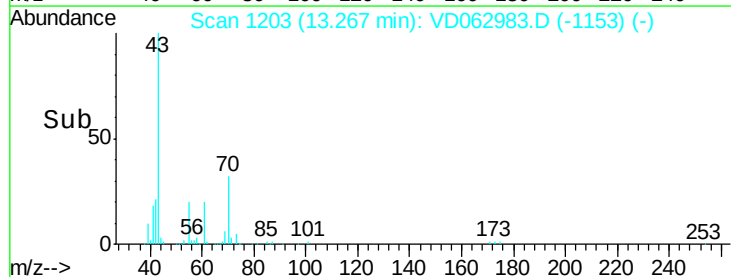
100000

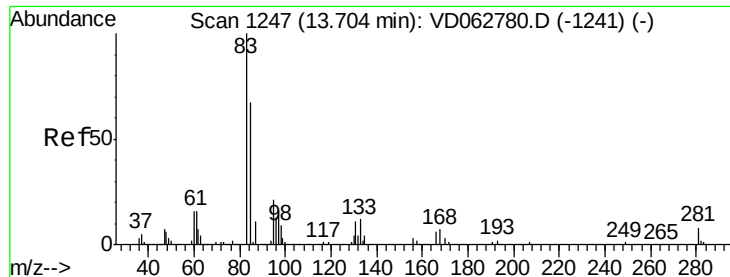
50000

0

13.20 13.30 13.40

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 20.279 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. -0.00 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

Instrument :

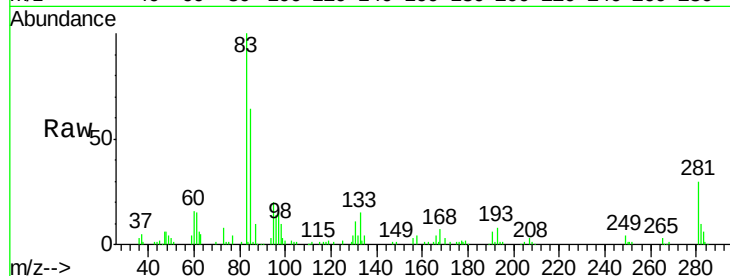
MSVOA_D

ClientSampleId :

VD0701SBS01

Tot Ion: 83 Resp: 117283

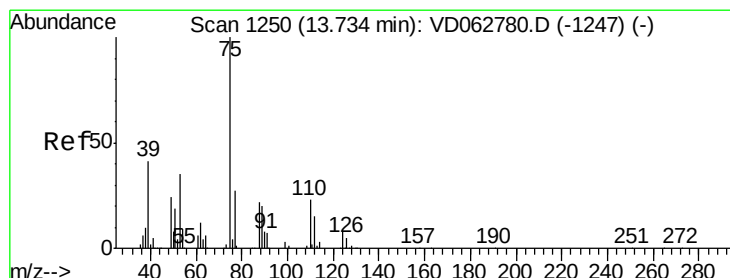
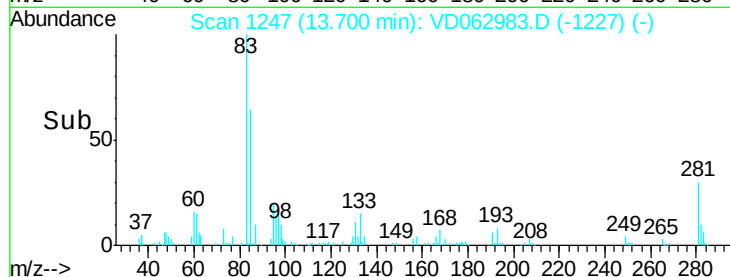
Ion	Ratio	Lower	Upper
83	100		
131	10.8	5.3	16.1
85	64.0	33.7	101.1



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 19.232 ug/l

RT: 13.73 min Scan# 1250

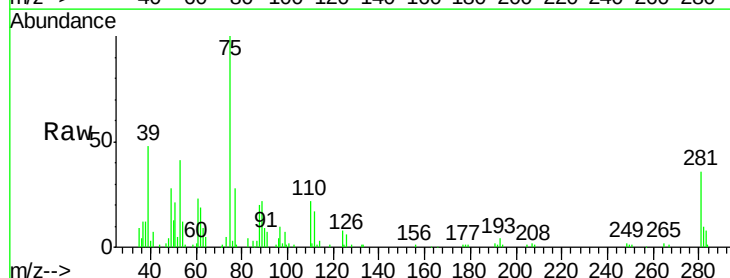
Delta R.T. -0.00 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

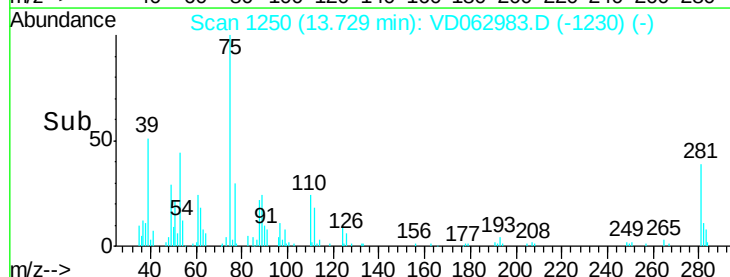
Tgt Ion: 75 Resp: 122906

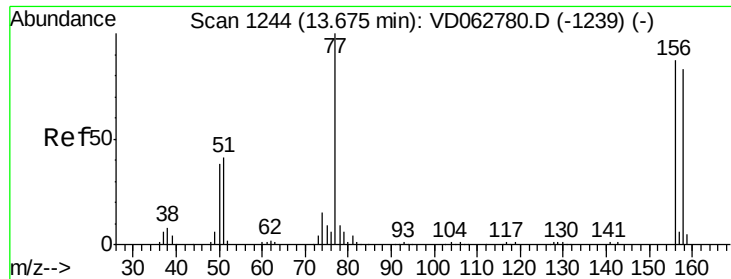
Ion	Ratio	Lower	Upper
75	100		
77	28.1	15.0	45.1



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 19.243 ug/l

RT: 13.67 min Scan# 1244

Delta R.T. -0.00 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

Instrument :

MSVOA_D

ClientSampleId :

VD0701SBSD01

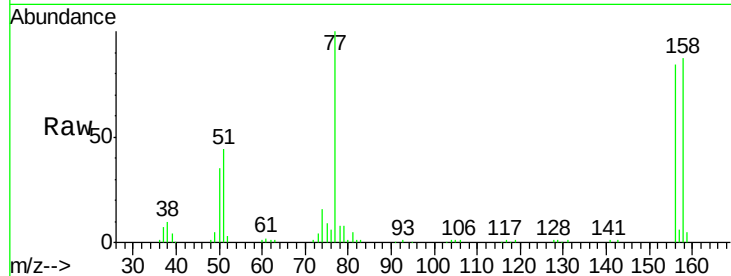
Tot Ion:156 Resp: 183713

Ion Ratio Lower Upper

156 100

77 119.4 57.7 173.1

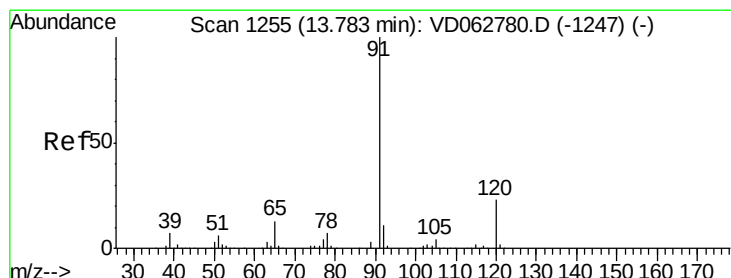
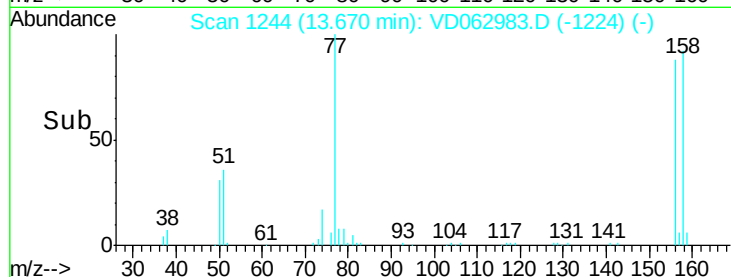
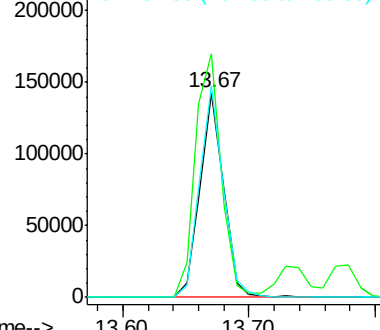
158 104.0 47.7 143.1



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: 20.007 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. -0.00 min

Lab File: VD062983.D

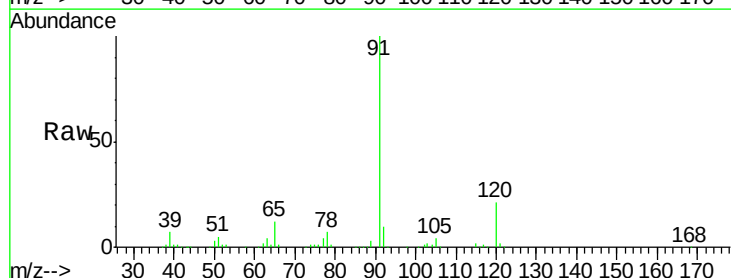
Acq: 1 Jul 2019 12:03

Tgt Ion: 91 Resp: 826579

Ion Ratio Lower Upper

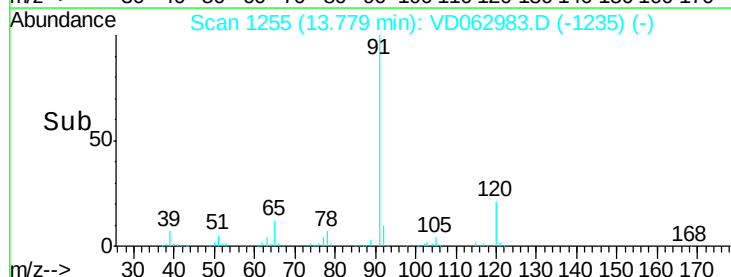
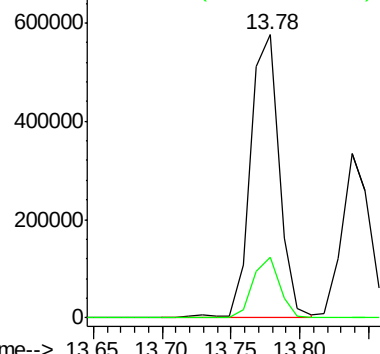
91 100

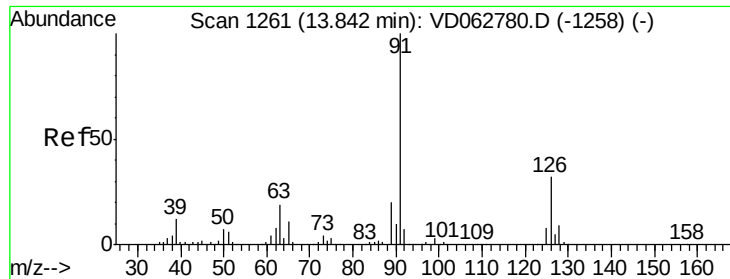
120 21.3 11.3 33.8



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 19.774 ug/l

RT: 13.84 min Scan# 1261

Delta R.T. -0.00 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

Instrument :

MSVOA_D

ClientSampleId :

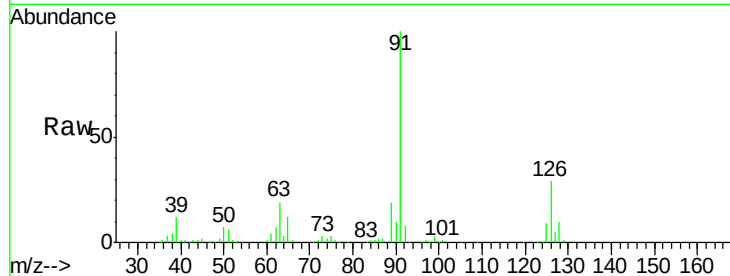
VD0701SBSD01

Tot Ion: 91 Resp: 466867

Ion Ratio Lower Upper

91 100

126 29.4 15.7 47.1



Abundance Ion 91.00 (90.70 to 91.70): VD062780.D (-1258) (-)

Ion 125.95 (125.65 to 126.65): VD062780.D (-1258) (-)

600000

400000

200000

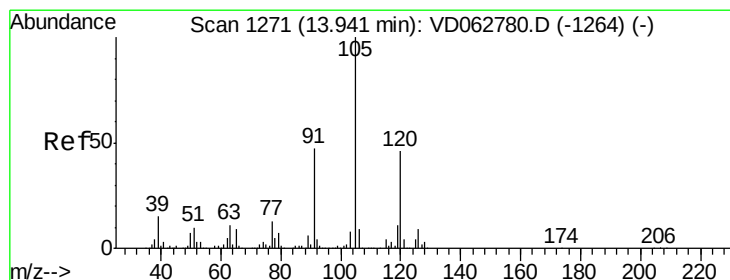
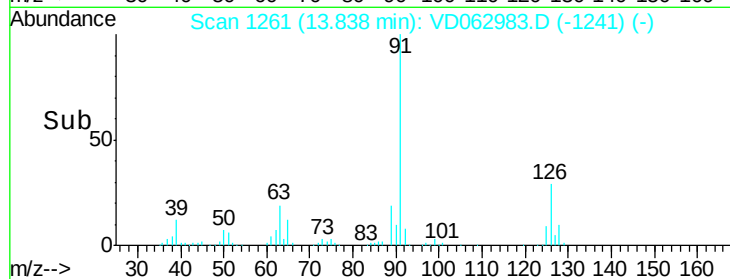
0

13.84

13.85

13.90

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 19.459 ug/l

RT: 13.94 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VD062983.D

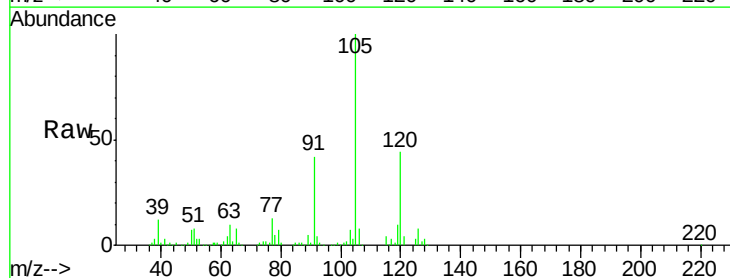
Acq: 1 Jul 2019 12:03

Tgt Ion: 105 Resp: 580164

Ion Ratio Lower Upper

105 100

120 44.1 23.1 69.2



Abundance Ion 105.05 (104.75 to 105.75): VD062780.D (-1264) (-)

Ion 120.05 (119.75 to 120.75): VD062780.D (-1264) (-)

500000

400000

300000

200000

100000

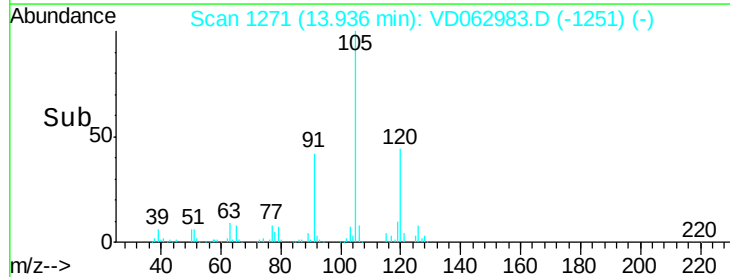
0

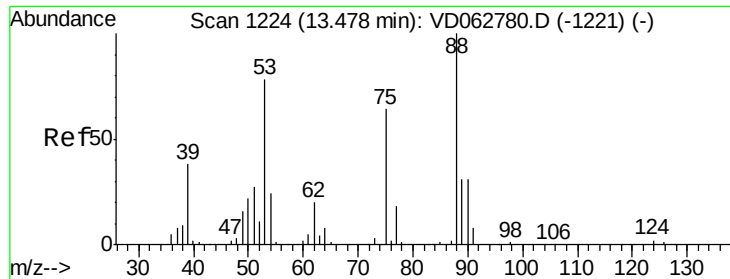
13.94

13.95

14.00

Time-->

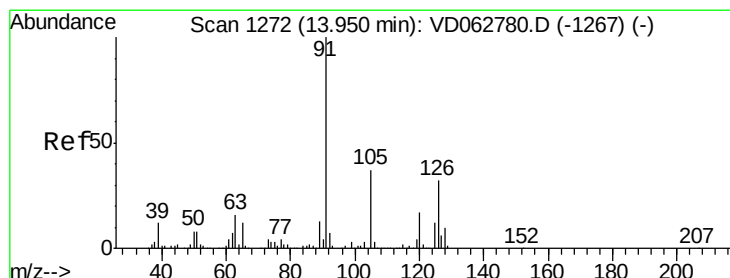
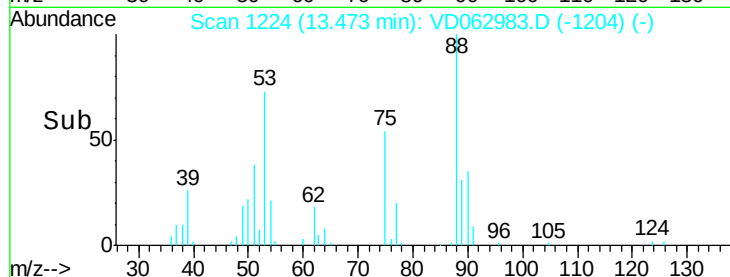
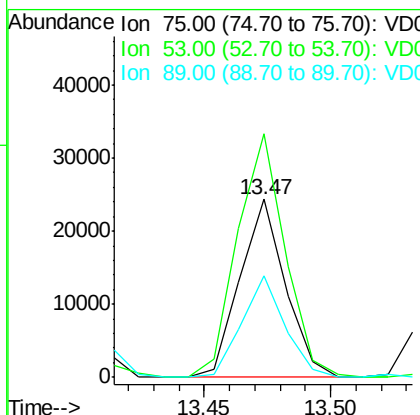
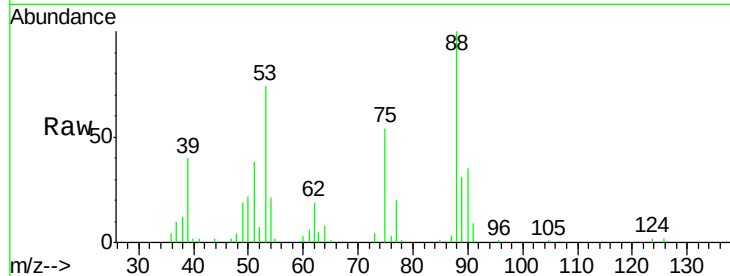




#81
trans-1,4-Dichloro-2-butene
Concen: 18.227 ug/l
RT: 13.47 min Scan# 1224
Delta R.T. -0.00 min
Lab File: VD062983.D
Acq: 1 Jul 2019 12:03

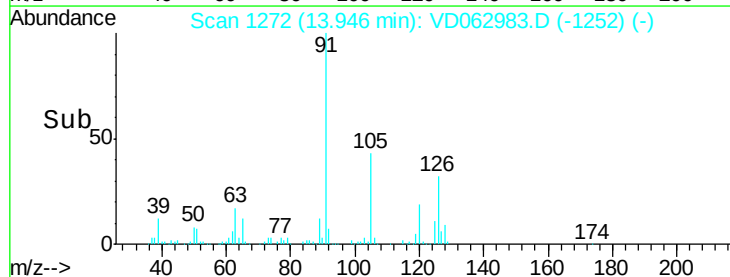
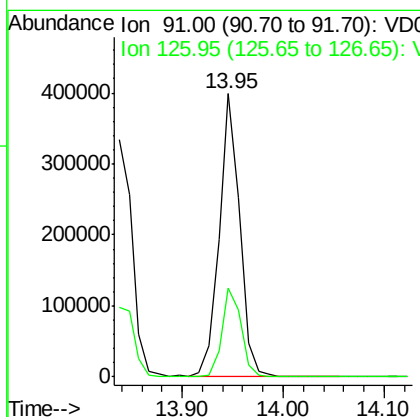
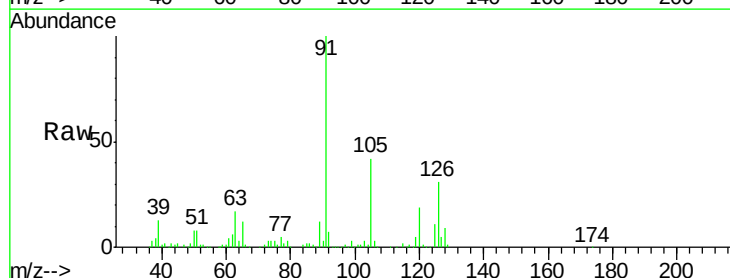
Instrument :
MSVOA_D
ClientSampleId :
VD0701SBSD01

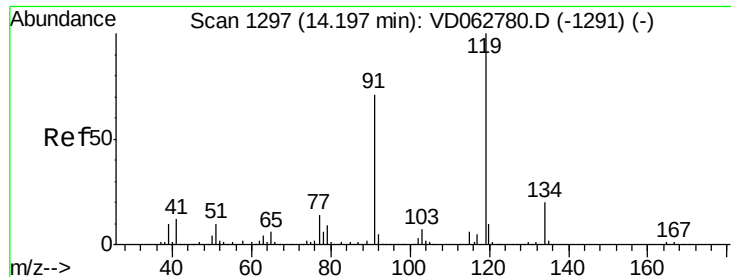
Tot Ion: 75 Resp: 30529
Ion Ratio Lower Upper
75 100
53 137.0 97.8 146.8
89 56.8 39.4 59.2



#82
4-Chlorotoluene
Concen: 19.927 ug/l
RT: 13.95 min Scan# 1272
Delta R.T. -0.00 min
Lab File: VD062983.D
Acq: 1 Jul 2019 12:03

Tgt Ion: 91 Resp: 566393
Ion Ratio Lower Upper
91 100
126 31.2 16.0 47.9

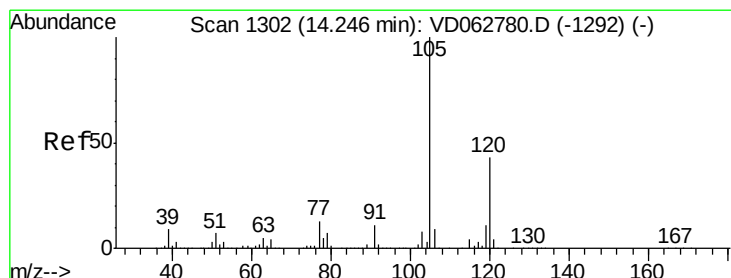
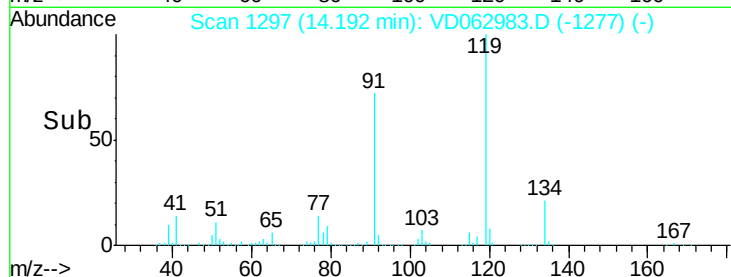
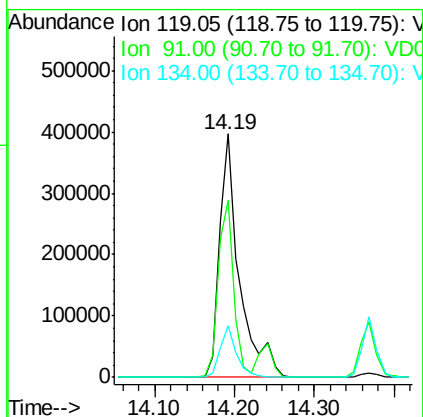
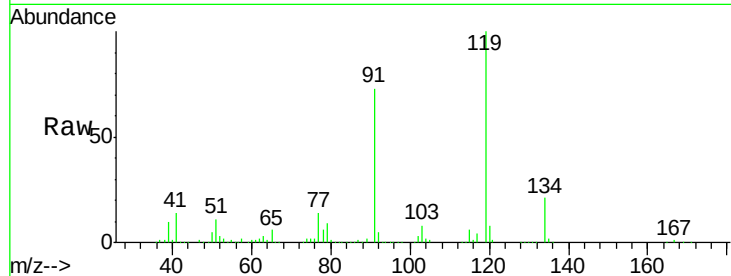




#83
 tert-Butylbenzene
 Concen: 20.903 ug/l
 RT: 14.19 min Scan# 1297
 Delta R.T. -0.00 min
 Lab File: VD062983.D
 Acq: 1 Jul 2019 12:03

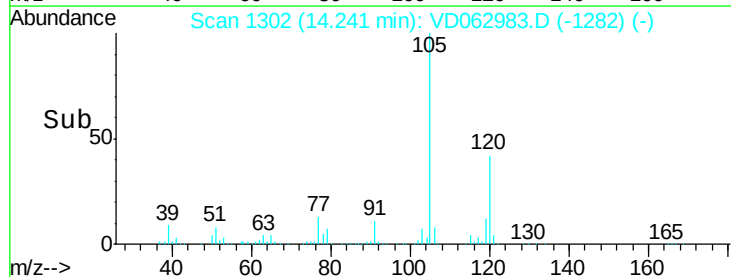
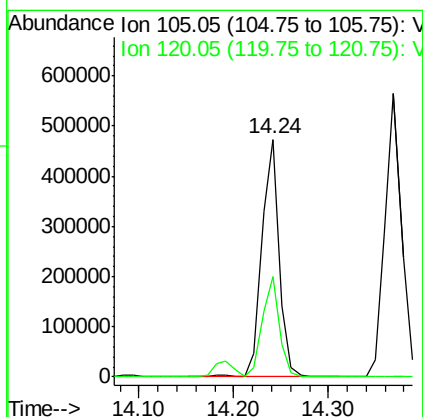
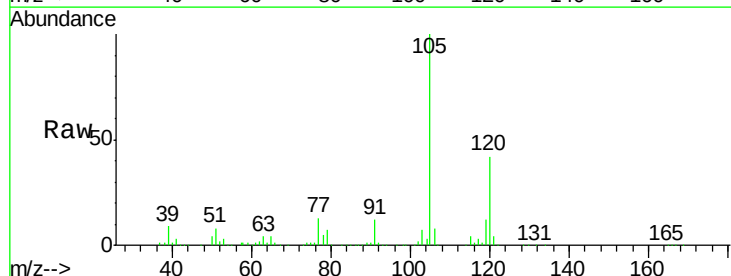
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0701SBSD01

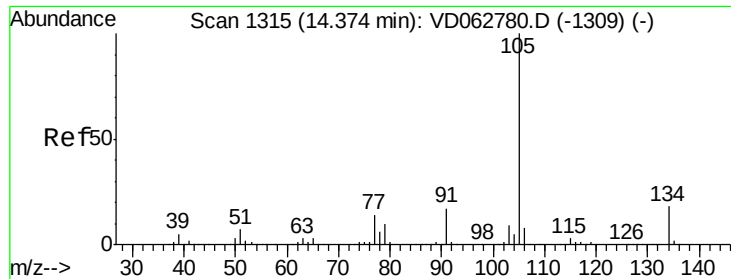
Tot Ion:119 Resp: 694680
 Ion Ratio Lower Upper
 119 100
 91 72.5 35.5 106.5
 134 21.0 10.2 30.6



#84
 1,2,4-Trimethylbenzene
 Concen: 19.793 ug/l
 RT: 14.24 min Scan# 1302
 Delta R.T. -0.00 min
 Lab File: VD062983.D
 Acq: 1 Jul 2019 12:03

Tgt Ion:105 Resp: 604859
 Ion Ratio Lower Upper
 105 100
 120 42.0 21.3 63.9





#85

sec-Butylbenzene

Concen: 19.185 ug/l

RT: 14.37 min Scan# 1315

Delta R.T. -0.00 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

Instrument :

MSVOA_D

ClientSampleId :

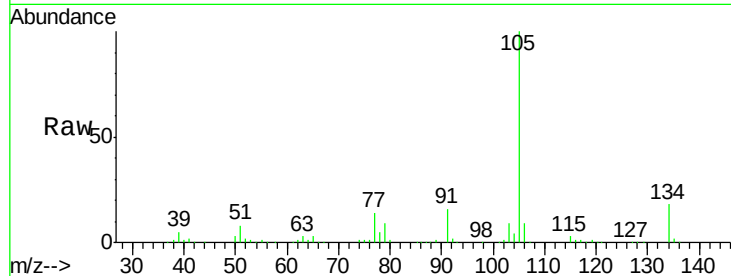
VD0701SBSD01

Tot Ion:105 Resp: 692976

Ion Ratio Lower Upper

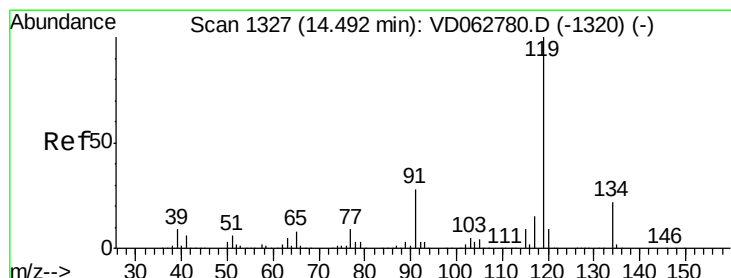
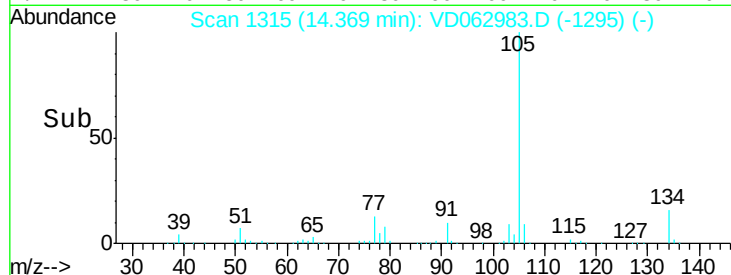
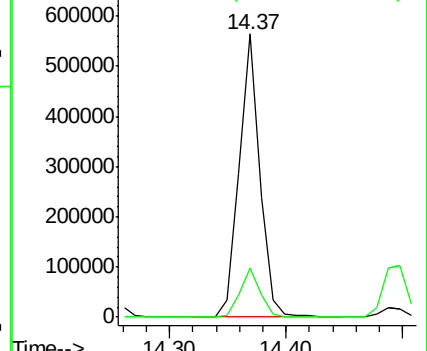
105 100

134 17.6 9.1 27.3



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#86

p-Isopropyltoluene

Concen: 20.465 ug/l

RT: 14.49 min Scan# 1327

Delta R.T. -0.00 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

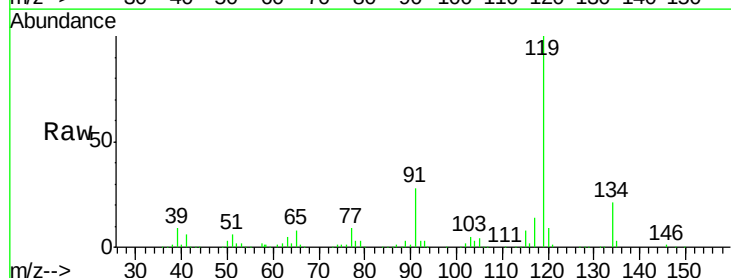
Tgt Ion:119 Resp: 676236

Ion Ratio Lower Upper

119 100

134 20.6 11.1 33.1

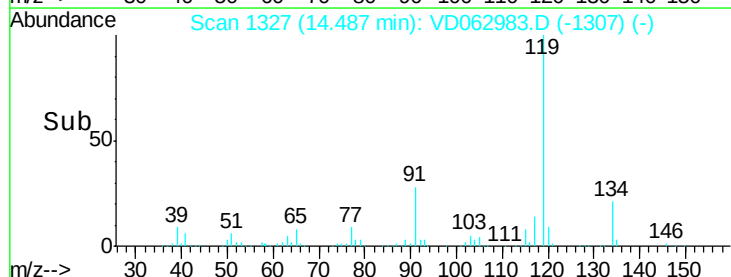
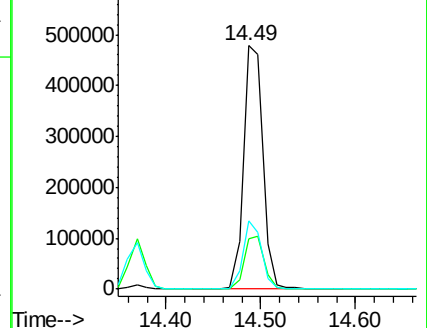
91 28.1 14.0 41.9

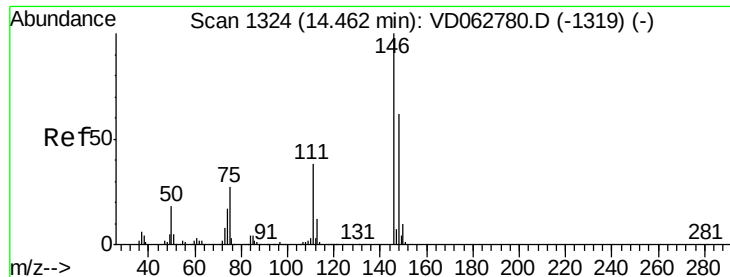


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 19.067 ug/l

RT: 14.46 min Scan# 1324

Delta R.T. -0.00 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

Instrument :

MSVOA_D

ClientSampleId :

VD0701SBSD01

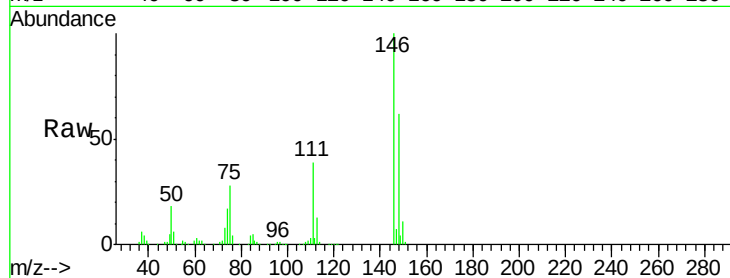
Tot Ion:146 Resp: 326313

Ion Ratio Lower Upper

146 100

111 38.6 19.0 57.0

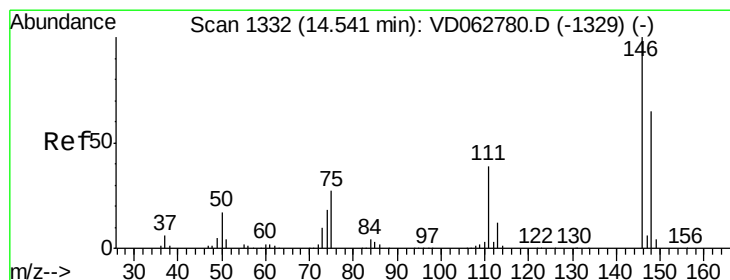
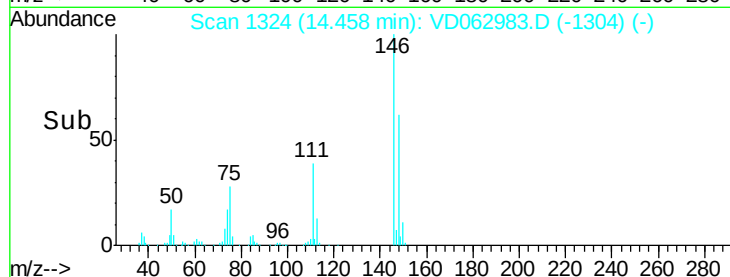
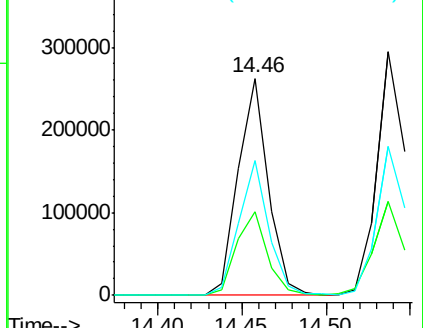
148 62.3 30.8 92.3



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



#88

1,4-Dichlorobenzene

Concen: 20.352 ug/l

RT: 14.54 min Scan# 1332

Delta R.T. -0.00 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

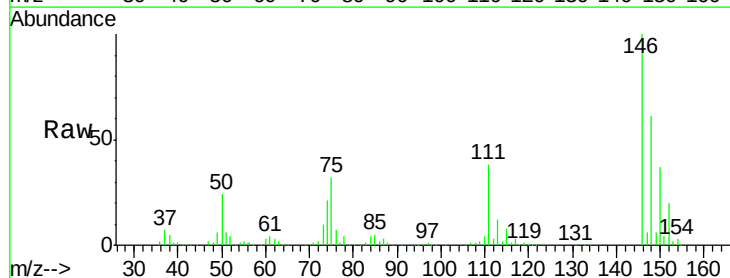
Tgt Ion:146 Resp: 349840

Ion Ratio Lower Upper

146 100

111 38.5 19.7 59.1

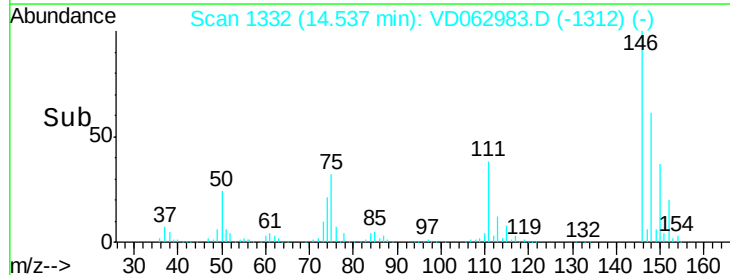
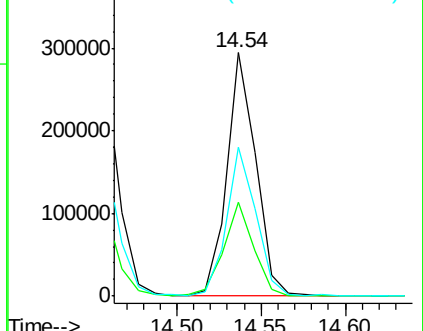
148 61.1 32.8 98.3

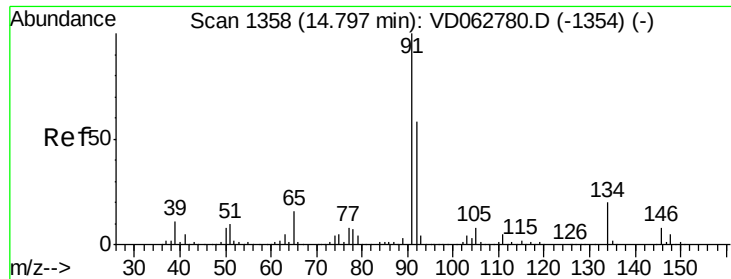


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#89

n-Butylbenzene

Concen: 20.858 ug/l

RT: 14.80 min Scan# 1359

Delta R.T. 0.01 min

Lab File: VD062983.D

Acq: 1 Jul 2019 12:03

Instrument :

MSVOA_D

ClientSampleId :

VD0701SBSD01

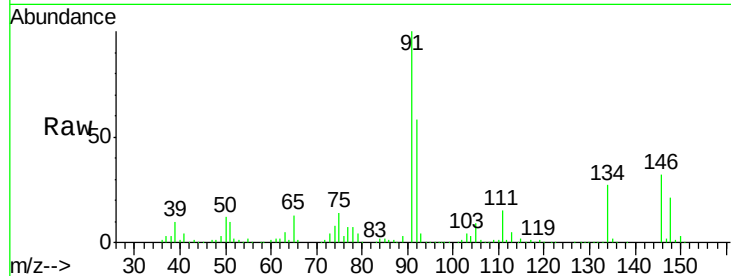
Tot Ion: 91 Resp: 645099

Ion Ratio Lower Upper

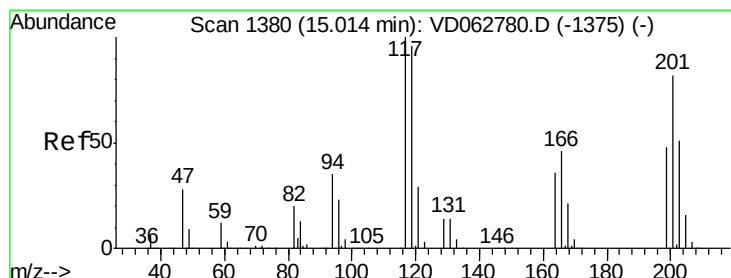
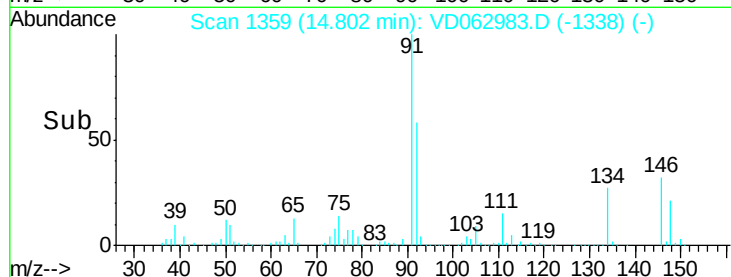
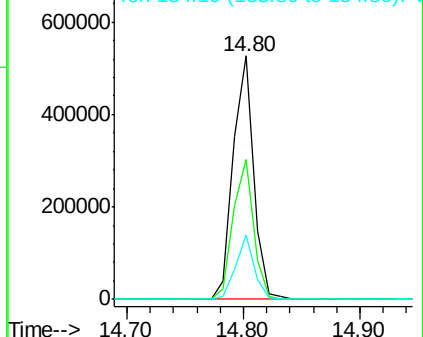
91 100

92 57.7 28.9 86.7

134 26.7 10.1 30.3



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 92.00 (91.70 to 92.70): VDC
Ion 134.10 (133.80 to 134.80): V



#90

Hexachloroethane

Concen: 19.944 ug/l

RT: 15.01 min Scan# 1380

Delta R.T. -0.00 min

Lab File: VD062983.D

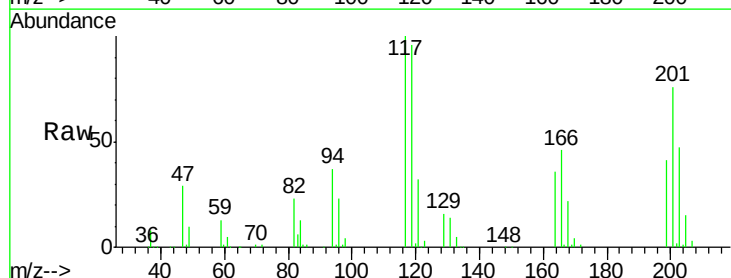
Acq: 1 Jul 2019 12:03

Tgt Ion: 117 Resp: 177197

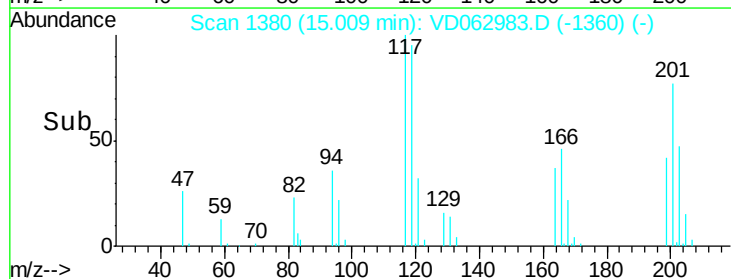
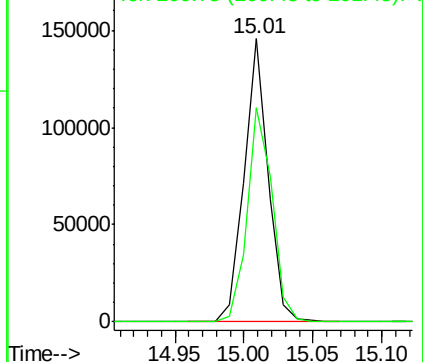
Ion Ratio Lower Upper

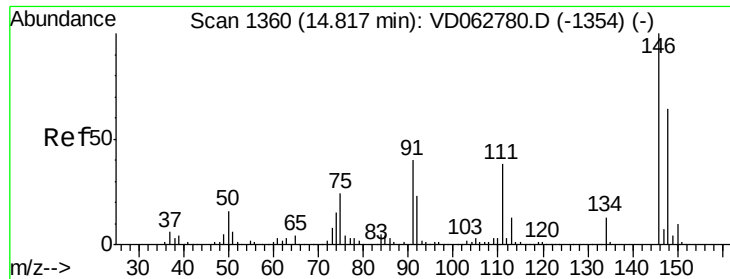
117 100

201 75.7 40.8 122.2



Abundance Ion 116.85 (116.55 to 117.55): V
Ion 200.75 (200.45 to 201.45): V

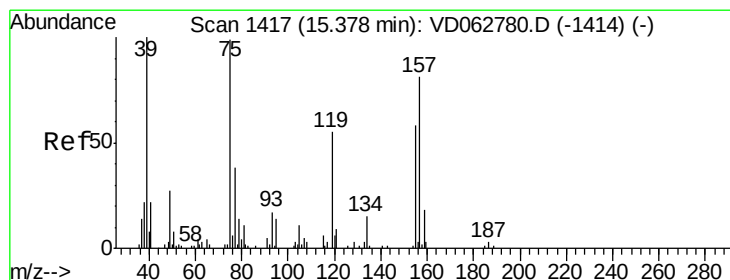
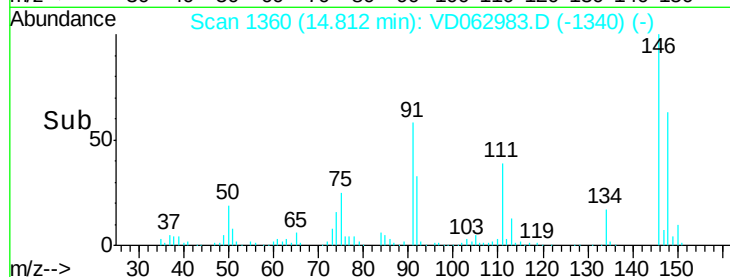
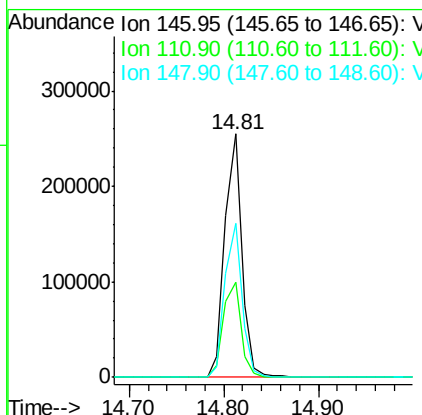
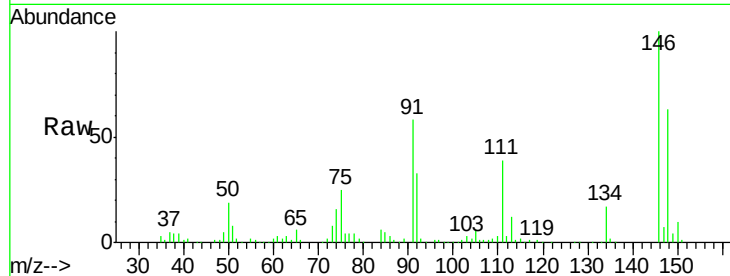




#91
 1,2-Dichlorobenzene
 Concen: 21.865 ug/l
 RT: 14.81 min Scan# 1360
 Delta R.T. -0.00 min
 Lab File: VD062983.D
 Acq: 1 Jul 2019 12:03

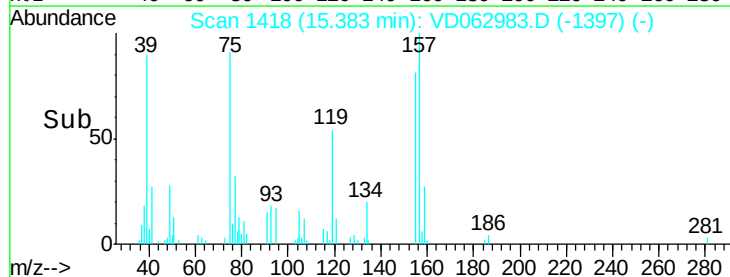
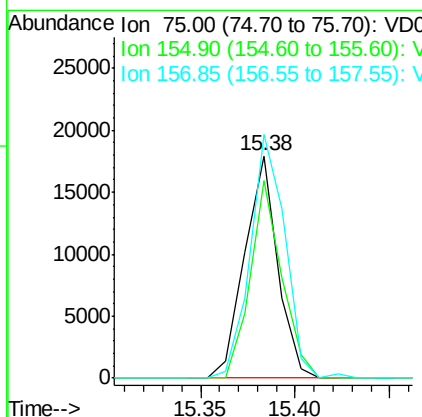
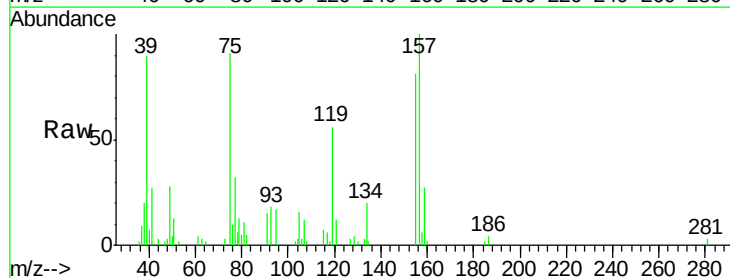
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0701SBSD01

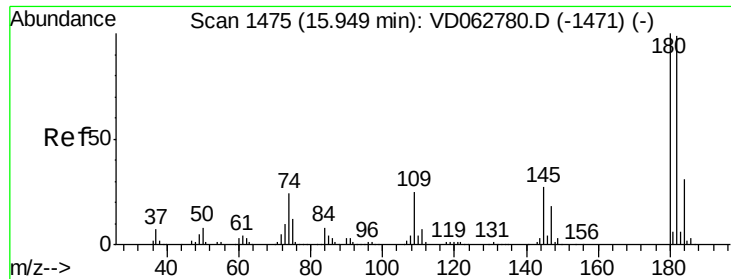
Tot Ion:146 Resp: 320157
 Ion Ratio Lower Upper
 146 100
 111 39.2 19.1 57.1
 148 63.3 32.3 96.8



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.165 ug/l
 RT: 15.38 min Scan# 1418
 Delta R.T. 0.01 min
 Lab File: VD062983.D
 Acq: 1 Jul 2019 12:03

Tgt Ion: 75 Resp: 21634
 Ion Ratio Lower Upper
 75 100
 155 89.0 29.3 87.8#
 157 109.6 41.3 123.7

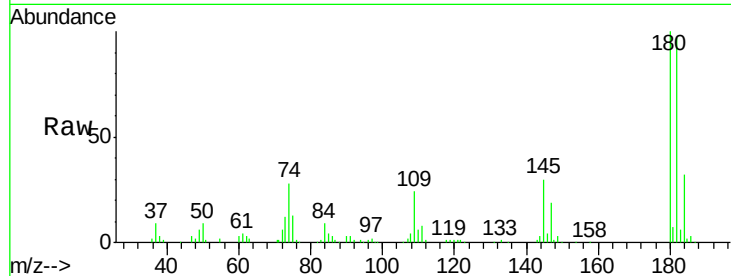




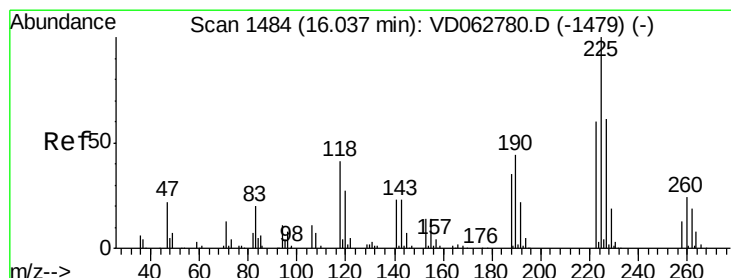
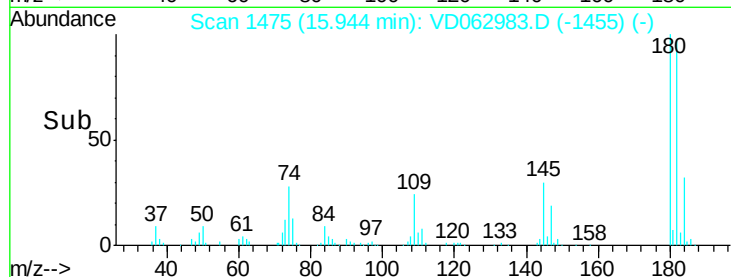
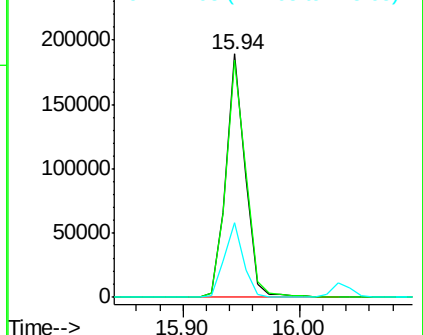
#93
 1,2,4-Trichlorobenzene
 Concen: 19.047 ug/l
 RT: 15.94 min Scan# 1475
 Delta R.T. -0.00 min
 Lab File: VD062983.D
 Acq: 1 Jul 2019 12:03

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0701SBSD01

Tot Ion:180 Resp: 217864
 Ion Ratio Lower Upper
 180 100
 182 97.3 49.5 148.5
 145 30.4 13.7 41.0

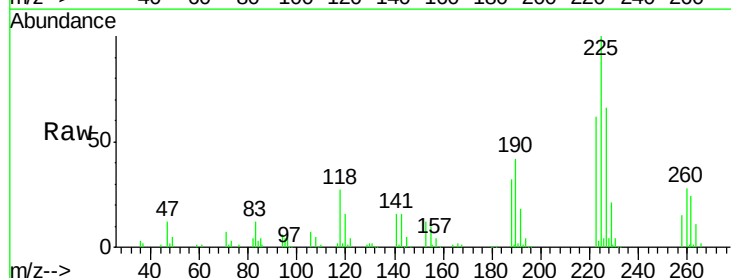


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

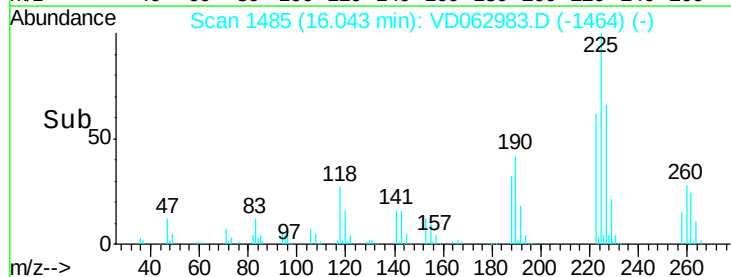
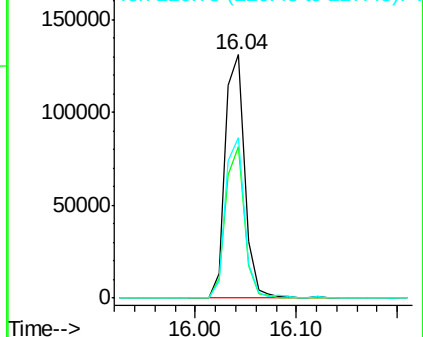


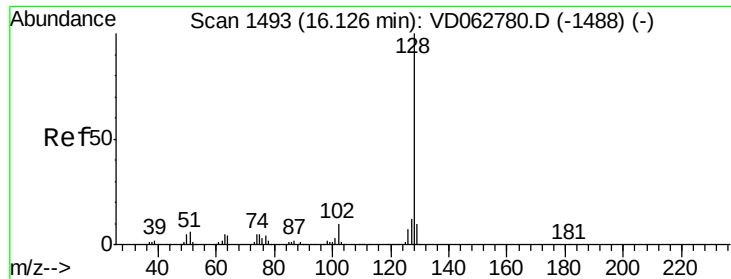
#94
 Hexachlorobutadiene
 Concen: 20.251 ug/l
 RT: 16.04 min Scan# 1485
 Delta R.T. 0.01 min
 Lab File: VD062983.D
 Acq: 1 Jul 2019 12:03

Tgt Ion:225 Resp: 176959
 Ion Ratio Lower Upper
 225 100
 223 62.2 29.8 89.5
 227 66.0 30.6 91.6



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

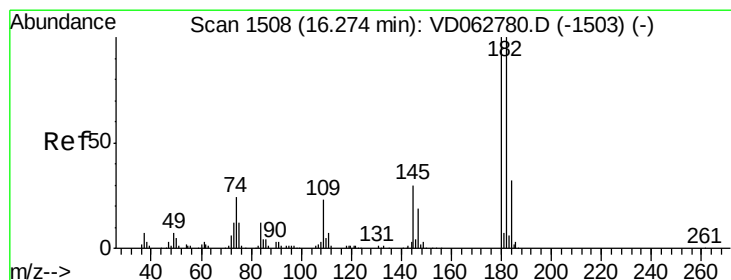
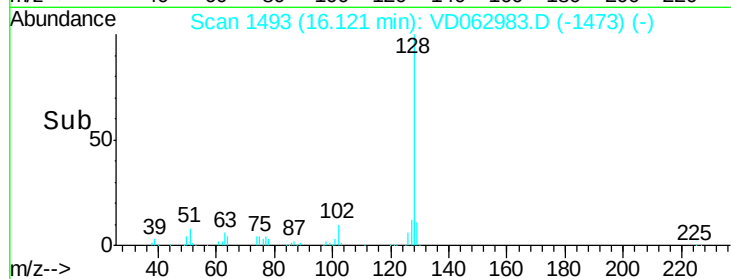
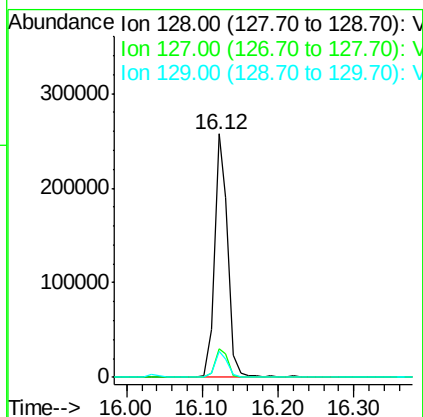
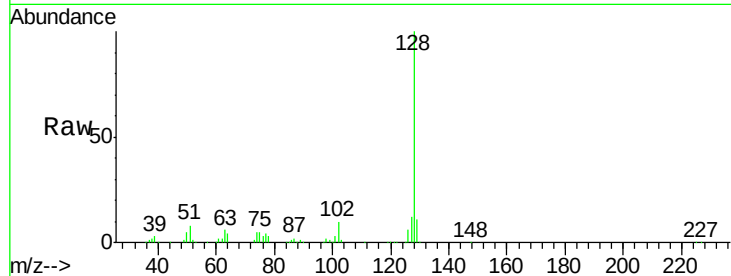




#95
Naphthalene
Concen: 19.916 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. -0.00 min
Lab File: VD062983.D
Acq: 1 Jul 2019 12:03

Instrument :
MSVOA_D
ClientSampleId :
VD0701SBSD01

Tot Ion:128 Resp: 319295
Ion Ratio Lower Upper
128 100
127 11.9 9.7 14.5
129 10.5 8.3 12.5



#96
1,2,3-Trichlorobenzene
Concen: 20.911 ug/l
RT: 16.27 min Scan# 1508
Delta R.T. -0.00 min
Lab File: VD062983.D
Acq: 1 Jul 2019 12:03

Tgt Ion:180 Resp: 183778
Ion Ratio Lower Upper
180 100
182 100.2 49.9 149.6
145 33.5 15.2 45.5

