

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041819\
 Data File : VD061873.D
 Acq On : 18 Apr 2019 14:40
 Operator : VA/AP
 Sample : VD0418SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0418SBS01

Quant Time: Apr 18 15:06:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D041519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 16 08:53:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	499840	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	8.22	114	797771	50.00	ug/l	-0.04
63) Chlorobenzene-d5	12.37	117	696989	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	14.52	152	336928	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	234435	55.96	ug/l	-0.04
Spiked Amount			Recovery	=	111.92%	
35) Dibromofluoromethane	6.93	113	338805	56.21	ug/l	-0.04
Spiked Amount			Recovery	=	112.42%	
50) Toluene-d8	10.41	98	761782	53.34	ug/l	-0.03
Spiked Amount			Recovery	=	106.68%	
62) 4-Bromofluorobenzene	13.55	95	315673	54.54	ug/l	-0.03
Spiked Amount			Recovery	=	109.08%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	93485	19.162	ug/l	91
3) Chloromethane	1.75	50	94398	24.279	ug/l	100
4) Vinyl Chloride	1.85	62	88784	23.009	ug/l	100
5) Bromomethane	2.14	94	21208	22.536	ug/l #	95
6) Chloroethane	2.25	64	27327	20.760	ug/l	92
7) Trichlorofluoromethane	2.53	101	139843	22.346	ug/l	95
8) Diethyl Ether	2.87	74	35996	21.948	ug/l	89
9) 1,1,2-Trichlorotrifluoroet	3.15	101	129451	23.199	ug/l	98
10) Methyl Iodide	3.31	142	130210	17.104	ug/l	99
11) Tert butyl alcohol	4.05	59	27501	111.321	ug/l #	93
12) 1,1-Dichloroethene	3.13	96	105980	22.592	ug/l	97
13) Acrolein	3.03	56	22413	93.716	ug/l	90
14) Allyl chloride	3.61	41	147549	23.075	ug/l	96
15) Acrylonitrile	4.19	53	85534	110.286	ug/l	92
16) Acetone	3.22	43	113726	110.150	ug/l	98
17) Carbon Disulfide	3.38	76	302063	19.929	ug/l	100
18) Methyl Acetate	3.64	43	47615	23.009	ug/l	94
19) Methyl tert-butyl Ether	4.23	73	194216	22.185	ug/l	99
20) Methylene Chloride	3.81	84	132738	23.427	ug/l	95
21) trans-1,2-Dichloroethene	4.22	96	117100	22.714	ug/l	98
22) Diisopropyl ether	5.12	45	300871	22.012	ug/l	96
23) Vinyl Acetate	5.06	43	852871	116.727	ug/l	99
24) 1,1-Dichloroethane	4.99	63	187981	22.684	ug/l	98
25) 2-Butanone	6.06	43	127189	108.206	ug/l	99
26) 2,2-Dichloropropane	6.02	77	166762	23.281	ug/l	97
27) cis-1,2-Dichloroethene	6.04	96	125199	22.402	ug/l	92
28) Bromochloromethane	6.44	49	71015	22.561	ug/l	100
29) Tetrahydrofuran	6.46	42	63778	111.389	ug/l	98
30) Chloroform	6.66	83	221835	24.000	ug/l	98
31) Cyclohexane	6.95	56	150826	23.775	ug/l	98
32) 1,1,1-Trichloroethane	6.87	97	195278	23.833	ug/l	99
36) 1,1-Dichloropropene	7.15	75	155455	23.846	ug/l	98
37) Ethyl Acetate	6.18	43	59897	21.468	ug/l	98
38) Carbon Tetrachloride	7.12	117	196529	23.875	ug/l	97

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.87	83	145817	21.540	ug/l	91
40) Benzene	7.45	78	365848	23.376	ug/l	100
41) Methacrylonitrile	6.44	41	75174	22.795	ug/l #	93
42) 1,2-Dichloroethane	7.58	62	127097	23.317	ug/l	98
43) Isopropyl Acetate	9.24	43	90794	23.124	ug/l	99
44) Trichloroethene	8.54	130	138305	22.955	ug/l	94
45) 1,2-Dichloropropane	8.94	63	96303	23.623	ug/l	93
46) Dibromomethane	9.07	93	67671	23.296	ug/l	93
47) Bromodichloromethane	9.38	83	156047	23.286	ug/l	94
48) Methyl methacrylate	9.12	41	55596	24.089	ug/l	90
49) 1,4-Dioxane	9.08	88	12552	497.576	ug/l	94
51) 4-Methyl-2-Pentanone	10.30	43	296655	123.549	ug/l	96
52) Toluene	10.51	92	243017	24.230	ug/l	95
53) t-1,3-Dichloropropene	10.92	75	139009	23.021	ug/l	99
54) cis-1,3-Dichloropropene	10.04	75	163659	23.089	ug/l	99
55) 1,1,2-Trichloroethane	11.19	97	81303	24.057	ug/l	96
56) Ethyl methacrylate	11.04	69	88204	23.780	ug/l	99
57) 1,3-Dichloropropane	11.41	76	123767	24.360	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.86	63	216348	122.628	ug/l	93
59) 2-Hexanone	11.54	43	224688	125.991	ug/l	99
60) Dibromochloromethane	11.68	129	128188	23.181	ug/l	98
61) 1,2-Dibromoethane	11.80	107	93170	22.421	ug/l	97
64) Tetrachloroethene	11.26	164	110908	21.218	ug/l	97
65) Chlorobenzene	12.40	112	295421	22.759	ug/l	100
66) 1,1,1,2-Tetrachloroethane	12.51	131	127465	23.433	ug/l	98
67) Ethyl Benzene	12.52	91	512123	24.636	ug/l	98
68) m/p-Xylenes	12.67	106	363613	46.568	ug/l	99
69) o-Xylene	13.05	106	164098	22.359	ug/l	99
70) Styrene	13.07	104	300699	23.809	ug/l	99
71) Bromoform	13.24	173	74390	23.039	ug/l #	96
73) Isopropylbenzene	13.41	105	500025	22.883	ug/l	98
74) N-amyl acetate	13.27	43	126803	21.581	ug/l #	94
75) 1,1,2,2-Tetrachloroethane	13.70	83	97618	22.601	ug/l	98
76) 1,2,3-Trichloropropane	13.73	75	100270	22.661	ug/l	99
77) Bromobenzene	13.67	156	140400	22.620	ug/l	95
78) n-propylbenzene	13.77	91	595795	23.600	ug/l	98
79) 2-Chlorotoluene	13.84	91	346788	23.515	ug/l	94
80) 1,3,5-Trimethylbenzene	13.94	105	389271	22.452	ug/l	96
81) trans-1,4-Dichloro-2-buten	13.48	75	27324	21.109	ug/l	99
82) 4-Chlorotoluene	13.95	91	365851	21.673	ug/l	93
83) tert-Butylbenzene	14.19	119	443016	21.761	ug/l	94
84) 1,2,4-Trimethylbenzene	14.24	105	374794	21.505	ug/l	100
85) sec-Butylbenzene	14.37	105	468985	22.285	ug/l	98
86) p-Isopropyltoluene	14.49	119	391416	19.878	ug/l	95
87) 1,3-Dichlorobenzene	14.46	146	243338	22.457	ug/l	97
88) 1,4-Dichlorobenzene	14.54	146	229067	21.385	ug/l	96
89) n-Butylbenzene	14.79	91	390065	22.379	ug/l	94
90) Hexachloroethane	15.01	117	122030	22.737	ug/l	85
91) 1,2-Dichlorobenzene	14.81	146	206209	22.719	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	15.39	75	12420	23.616	ug/l	85

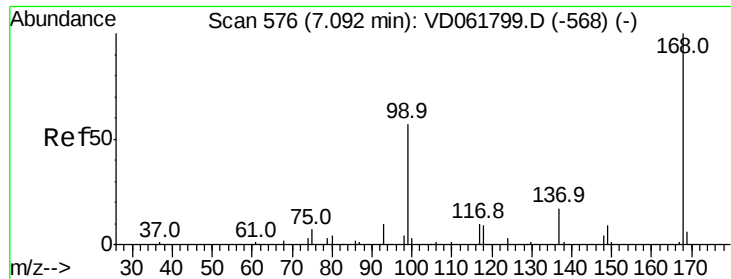
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD041819\
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.95	180	116078	23.284	ug/l	98
94) Hexachlorobutadiene	16.04	225	83592	23.138	ug/l	97
95) Naphthalene	16.12	128	190030	24.870	ug/l	99
96) 1,2,3-Trichlorobenzene	16.27	180	71140	25.041	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.04 min

Lab File: VD061873.D

Acq: 18 Apr 2019 14:40

Instrument :

MSVOA_D

ClientSampleId :

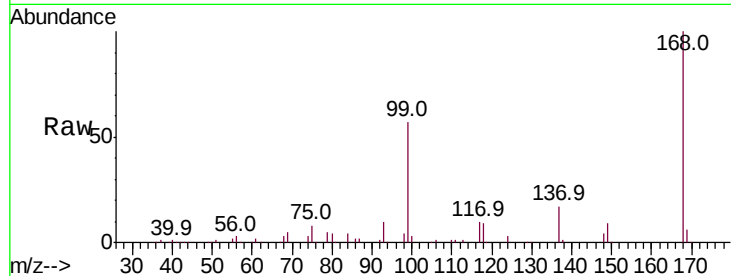
VD0418SBS01

Tot Ion:168 Resp: 499840

Ion Ratio Lower Upper

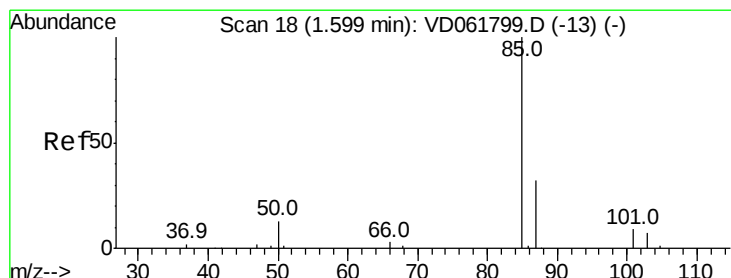
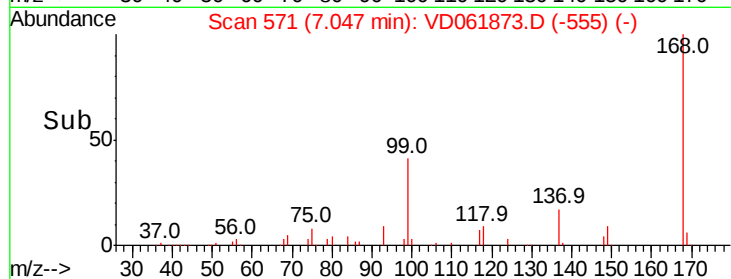
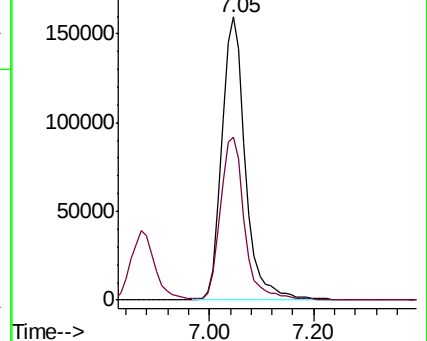
168 100

99 57.4 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 19.162 ug/l

RT: 1.57 min Scan# 15

Delta R.T. -0.03 min

Lab File: VD061873.D

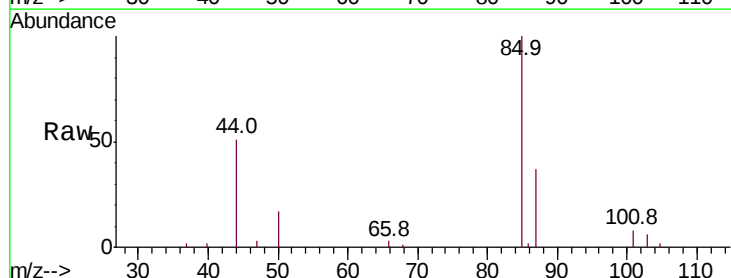
Acq: 18 Apr 2019 14:40

Tgt Ion: 85 Resp: 93485

Ion Ratio Lower Upper

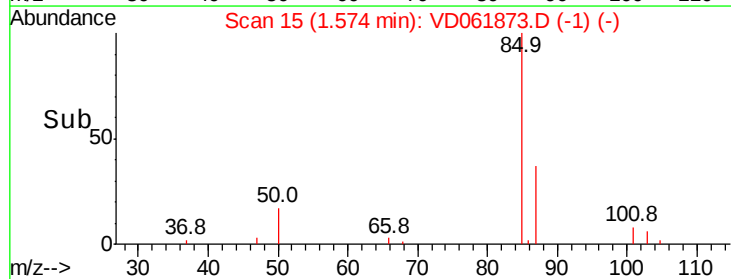
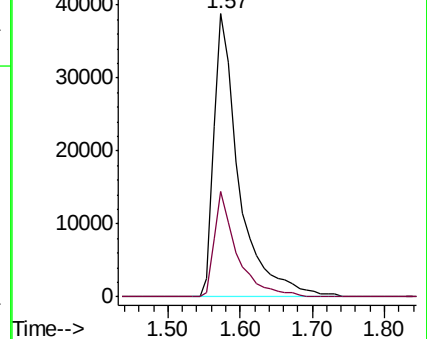
85 100

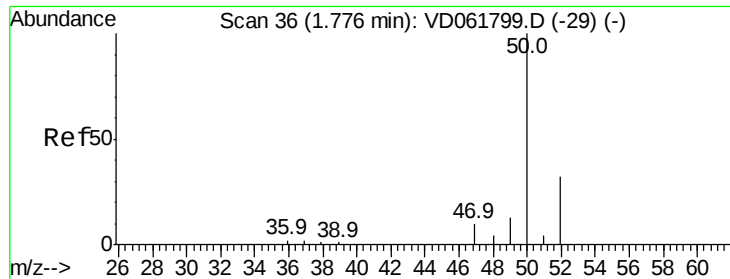
87 37.3 16.2 48.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 24.279 ug/l

RT: 1.75 min Scan# 33

Delta R.T. -0.03 min

Lab File: VD061873.D

Acq: 18 Apr 2019 14:40

Instrument :

MSVOA_D

ClientSampleId :

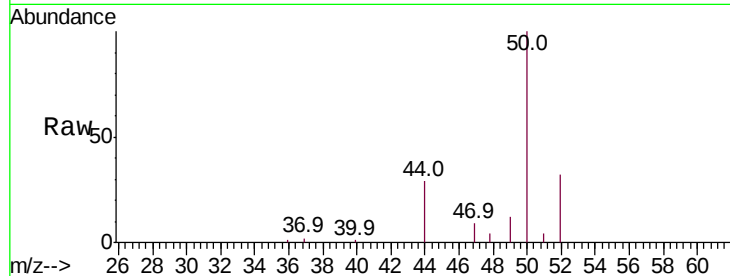
VD0418SBS01

Tot Ion: 50 Resp: 94398

Ion Ratio Lower Upper

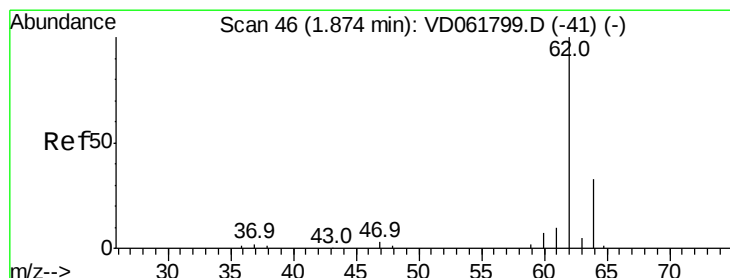
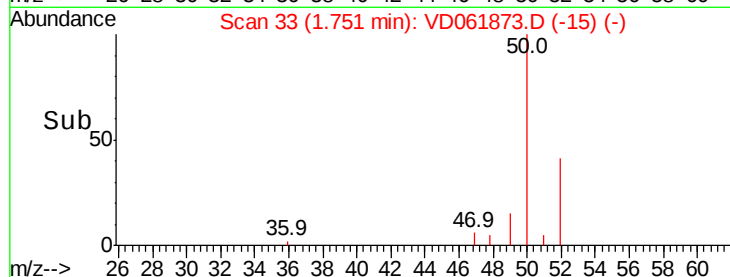
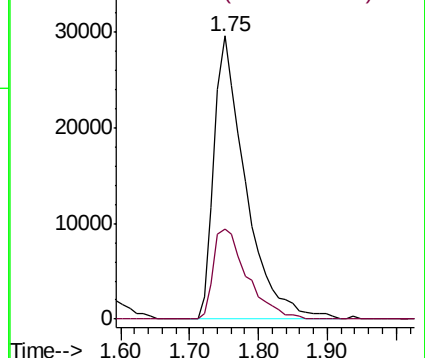
50 100

52 31.7 25.2 37.8



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 23.009 ug/l

RT: 1.85 min Scan# 43

Delta R.T. -0.03 min

Lab File: VD061873.D

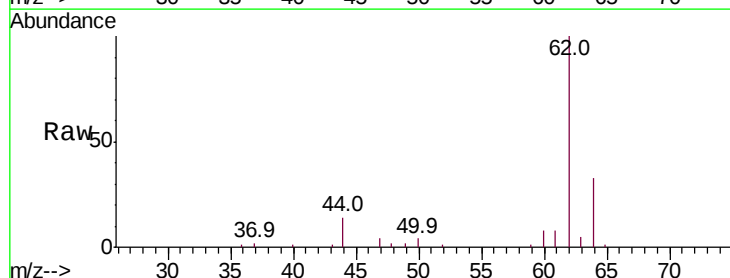
Acq: 18 Apr 2019 14:40

Tgt Ion: 62 Resp: 88784

Ion Ratio Lower Upper

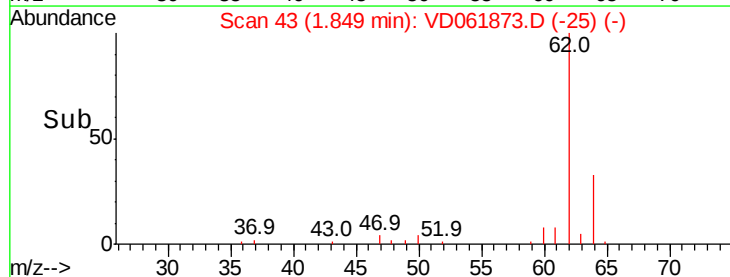
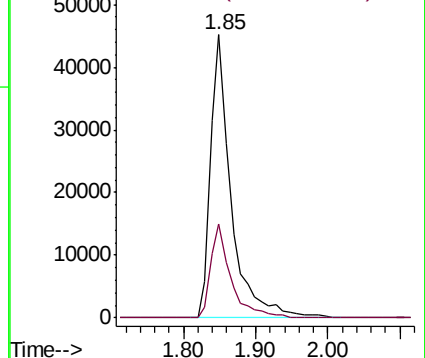
62 100

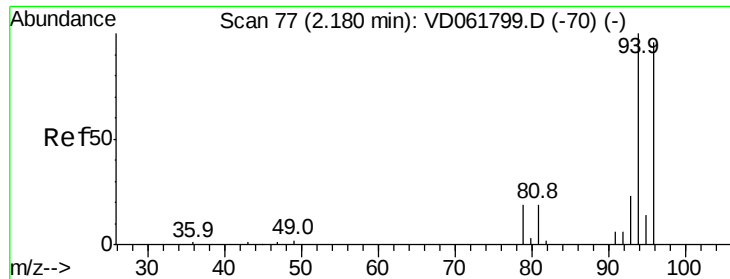
64 33.3 26.5 39.7



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 22.536 ug/l

RT: 2.14 min Scan# 73

Delta R.T. -0.03 min

Lab File: VD061873.D

Acq: 18 Apr 2019 14:40

Instrument :

MSVOA_D

ClientSampleId :

VD0418SBS01

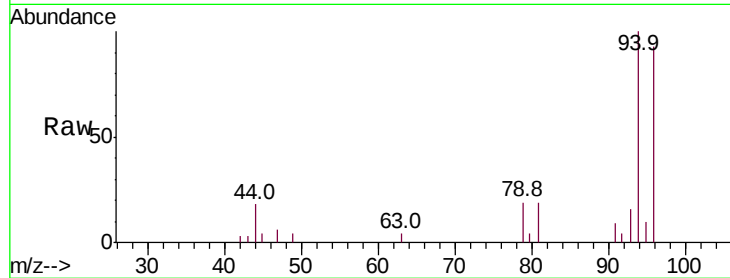
Tot Ion: 94 Resp: 21208

Ion Ratio Lower Upper

94 100

96 93.0 76.6 115.0

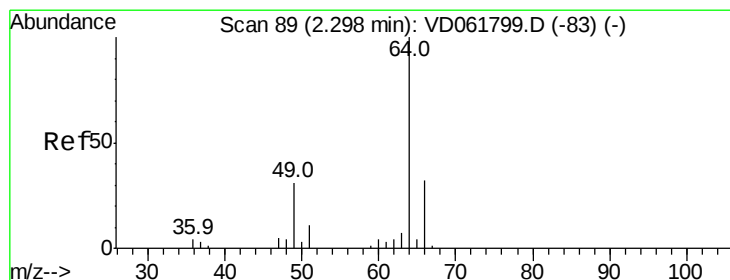
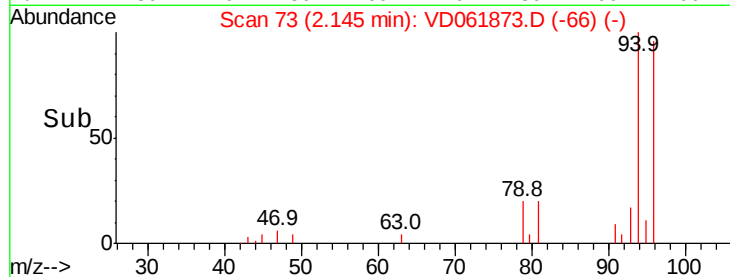
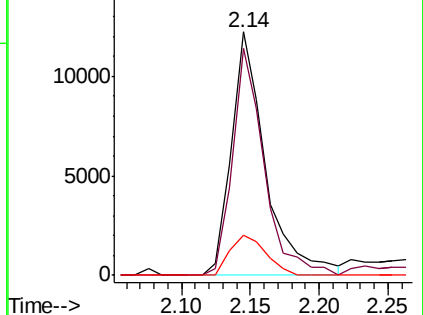
93 16.5 18.5 27.7#



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: 20.760 ug/l

RT: 2.25 min Scan# 84

Delta R.T. -0.04 min

Lab File: VD061873.D

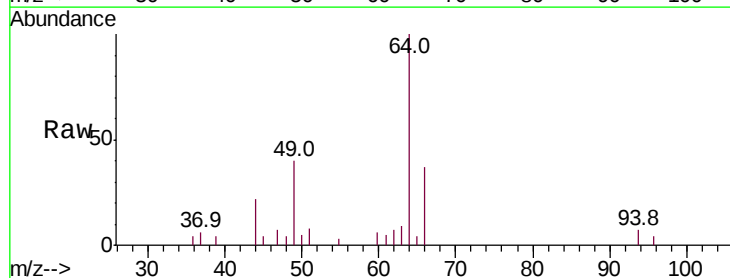
Acq: 18 Apr 2019 14:40

Tgt Ion: 64 Resp: 27327

Ion Ratio Lower Upper

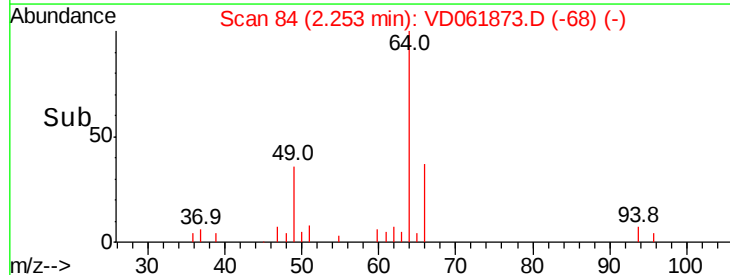
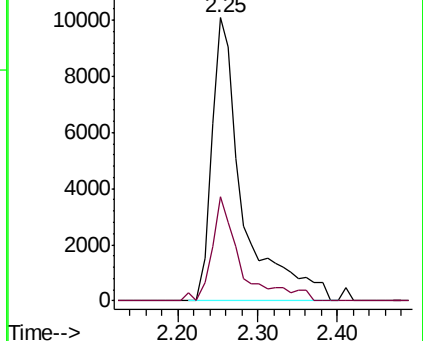
64 100

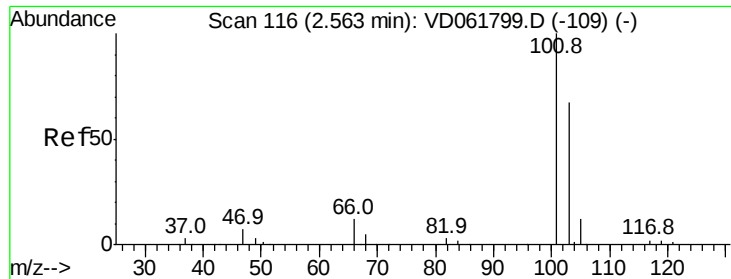
66 36.7 25.6 38.4



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



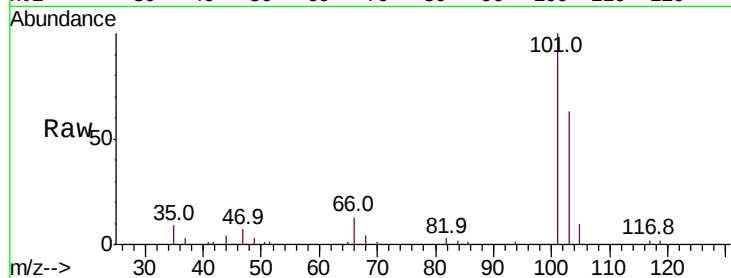


#7

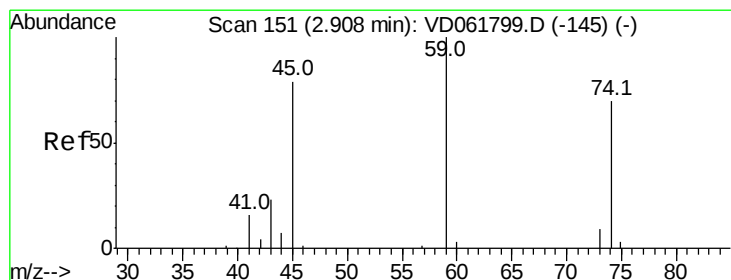
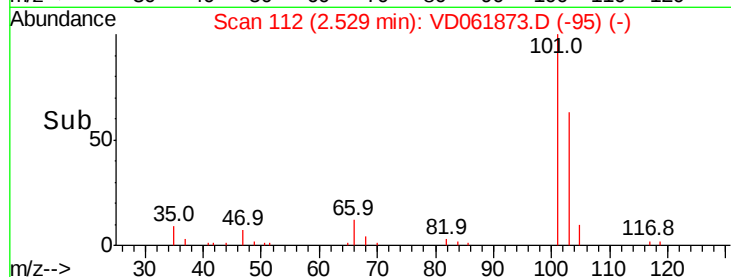
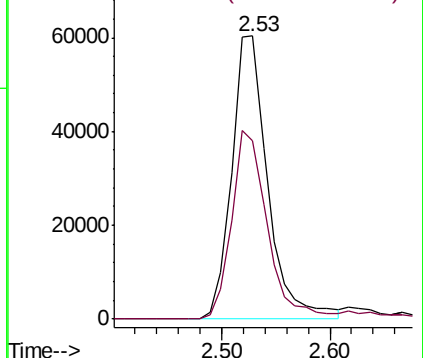
Trichlorofluoromethane
Concen: 22.346 ug/l
RT: 2.53 min Scan# 112
Delta R.T. -0.03 min
Lab File: VD061873.D
Acq: 18 Apr 2019 14:40

Instrument :
MSVOA_D
ClientSampleId :
VD0418SBS01

Tot Ion:101 Resp: 139843
Ion Ratio Lower Upper
101 100
103 62.9 53.6 80.4



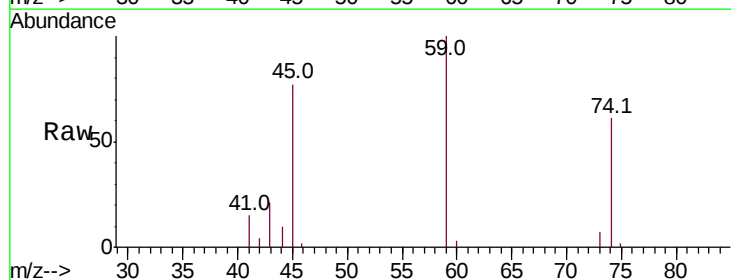
Abundance Ion 100.85 (100.55 to 101.55): V
Ion 102.85 (102.55 to 103.55): V



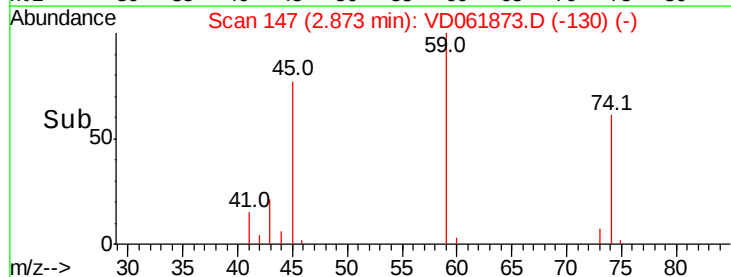
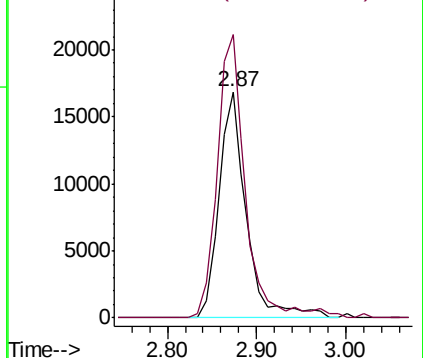
#8

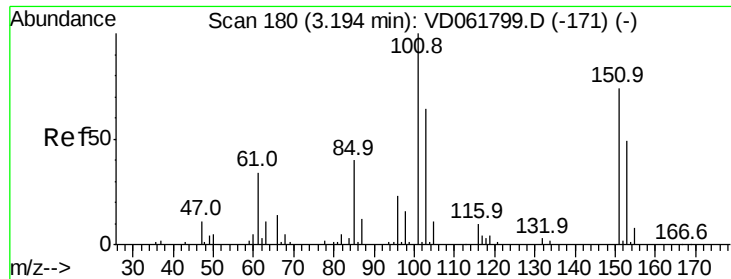
Diethyl Ether
Concen: 21.948 ug/l
RT: 2.87 min Scan# 147
Delta R.T. -0.03 min
Lab File: VD061873.D
Acq: 18 Apr 2019 14:40

Tgt Ion: 74 Resp: 35996
Ion Ratio Lower Upper
74 100
45 125.2 56.9 170.7



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





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.199 ug/l

RT: 3.15 min Scan# 175

Delta R.T. -0.04 min

Lab File: VD061873.D

Acq: 18 Apr 2019 14:40

Instrument :

MSVOA_D

ClientSampleId :

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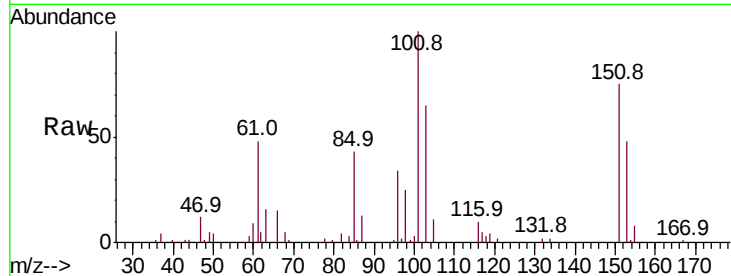
Tot Ion:101 Resp: 129451

Ion Ratio Lower Upper

101 100

85 43.1 32.4 48.6

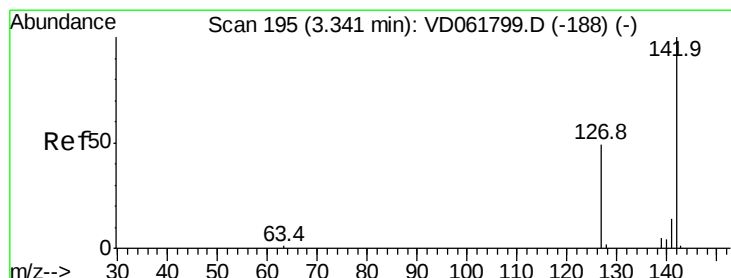
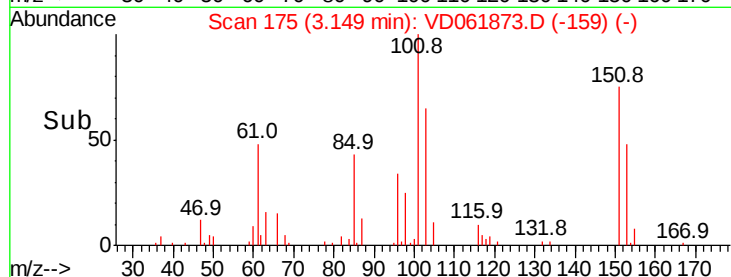
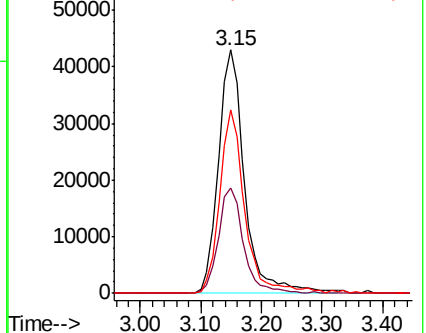
151 75.3 59.4 89.0



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 17.104 ug/l

RT: 3.31 min Scan# 191

Delta R.T. -0.03 min

Lab File: VD061873.D

Acq: 18 Apr 2019 14:40

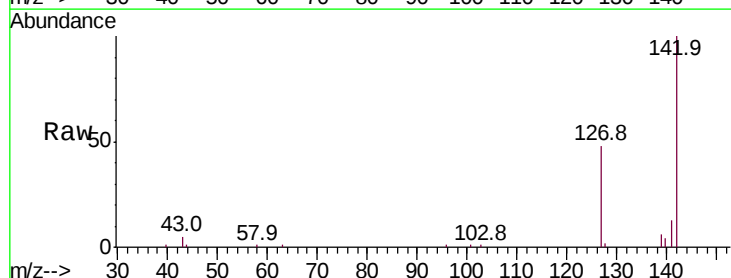
Tgt Ion:142 Resp: 130210

Ion Ratio Lower Upper

142 100

127 47.9 38.8 58.2

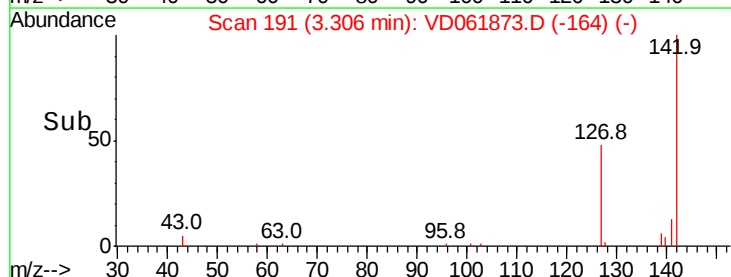
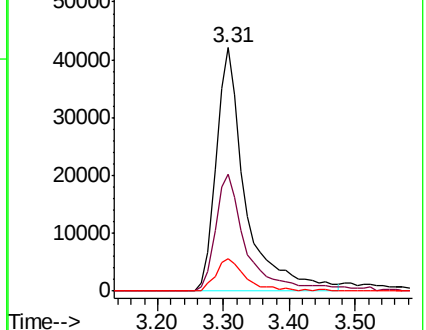
141 13.1 11.4 17.0

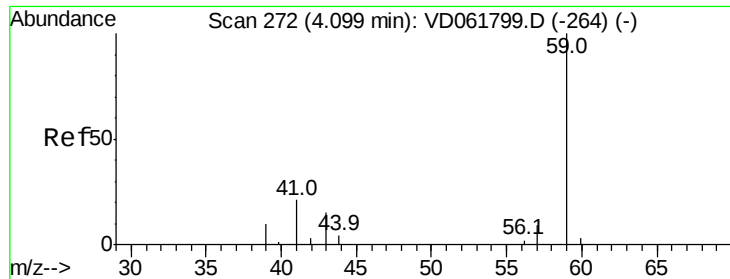


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

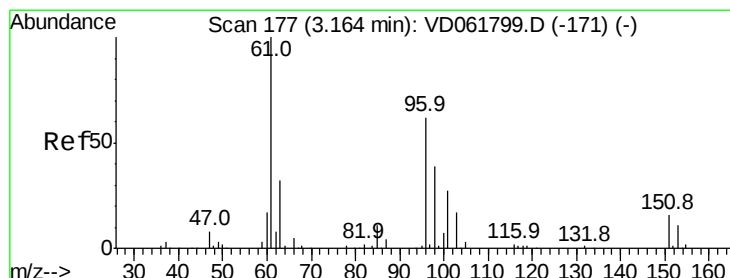
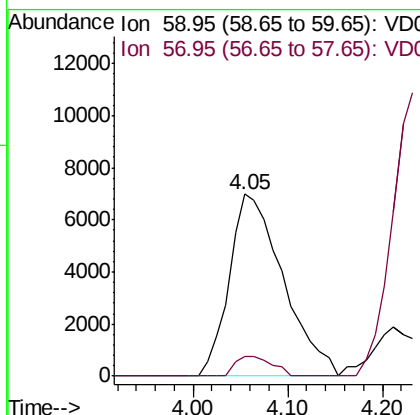
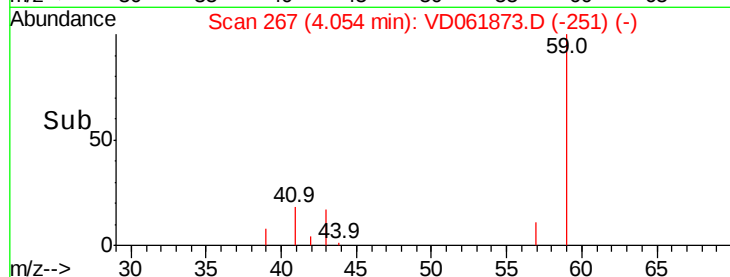
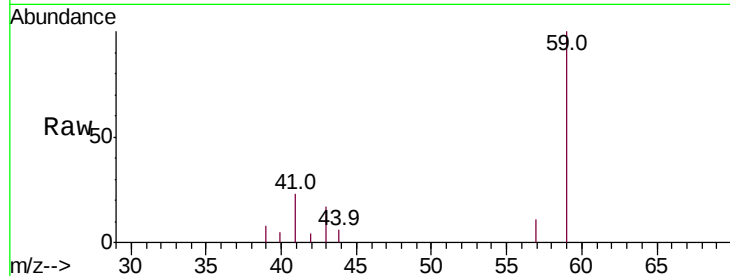




#11
Tert butyl alcohol
Concen: 111.321 ug/l
RT: 4.05 min Scan# 267
Delta R.T. -0.04 min
Lab File: VD061873.D
Acq: 18 Apr 2019 14:40

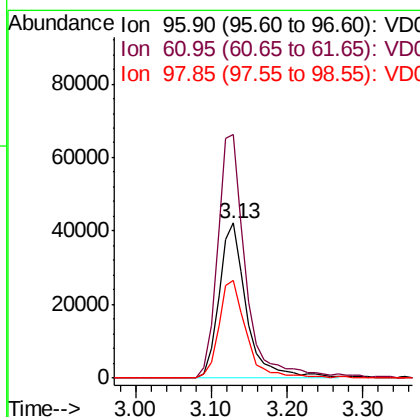
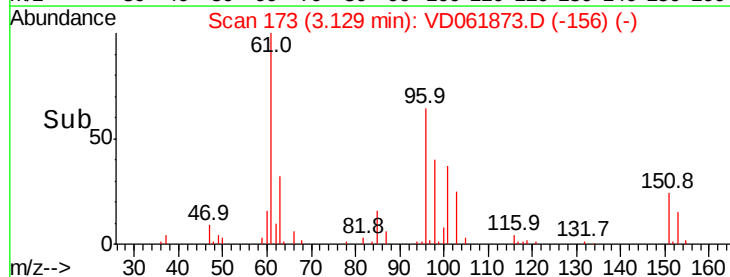
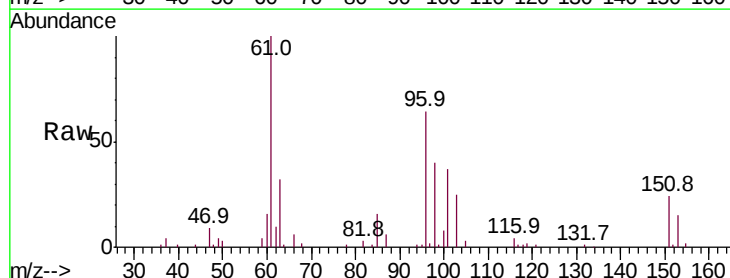
Instrument :
MSVOA_D
ClientSampleId :
VD0418SBS01

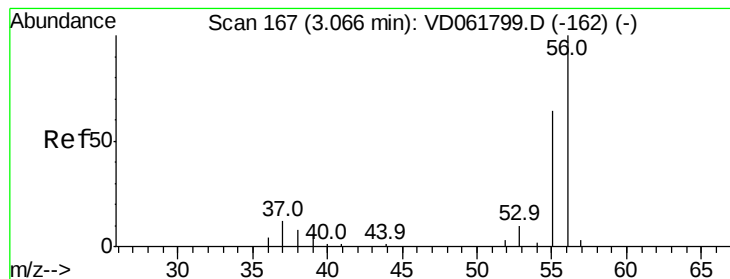
Tot Ion: 59 Resp: 27501
Ion Ratio Lower Upper
59 100
57 11.0 6.9 10.3#



#12
1,1-Dichloroethene
Concen: 22.592 ug/l
RT: 3.13 min Scan# 173
Delta R.T. -0.03 min
Lab File: VD061873.D
Acq: 18 Apr 2019 14:40

Tgt Ion: 96 Resp: 105980
Ion Ratio Lower Upper
96 100
61 157.2 129.8 194.8
98 62.8 51.2 76.8





#13

Acrolein

Concen: 93.716 ug/l

RT: 3.03 min Scan# 163

Delta R.T. -0.03 min

Lab File: VD061873.D

Acq: 18 Apr 2019 14:40

Instrument :

MSVOA_D

ClientSampleId :

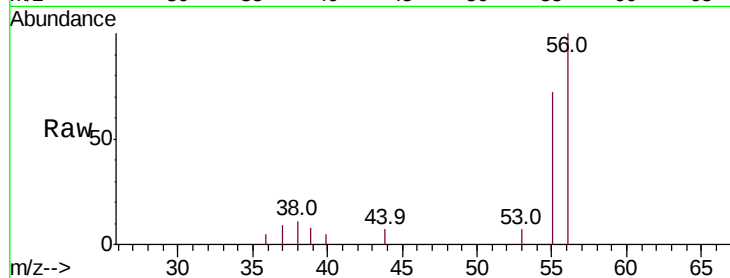
VD0418SBS01

Tot Ion: 56 Resp: 22413

Ion Ratio Lower Upper

56 100

55 72.1 51.4 77.2



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

3.03

10000

8000

6000

4000

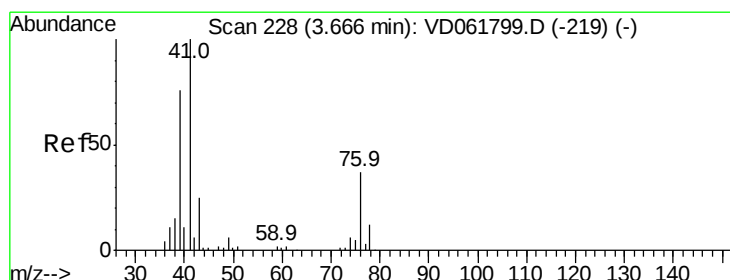
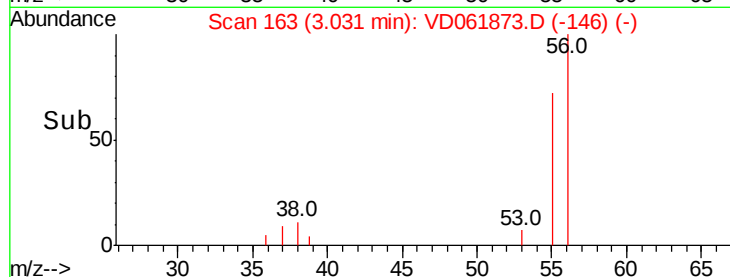
2000

0

Time-->

3.00

3.10



#14

Allyl chloride

Concen: 23.075 ug/l

RT: 3.61 min Scan# 222

Delta R.T. -0.05 min

Lab File: VD061873.D

Acq: 18 Apr 2019 14:40

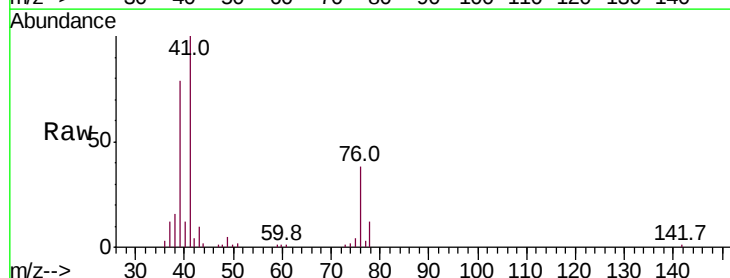
Tgt Ion: 41 Resp: 147549

Ion Ratio Lower Upper

41 100

39 79.1 60.5 90.7

76 37.8 31.8 47.8



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

3.61

60000

40000

20000

0

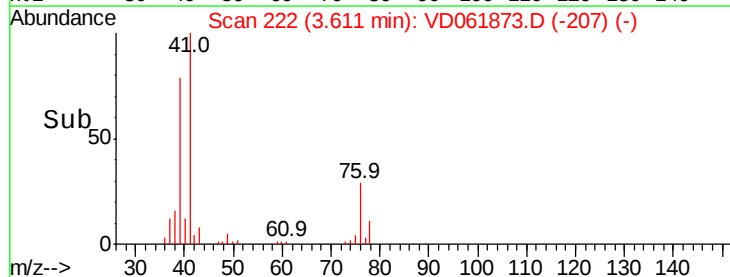
Time-->

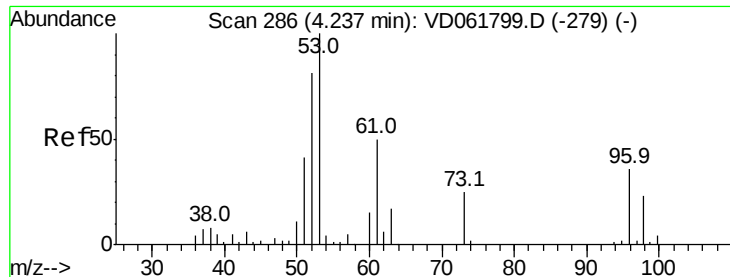
3.50

3.60

3.70

3.80





#15

Acrylonitrile

Concen: 110.286 ug/l

RT: 4.19 min Scan# 281

Delta R.T. -0.04 min

Lab File: VD061873.D

Acq: 18 Apr 2019 14:40

Instrument :

MSVOA_D

ClientSampleId :

VD0418SBS01

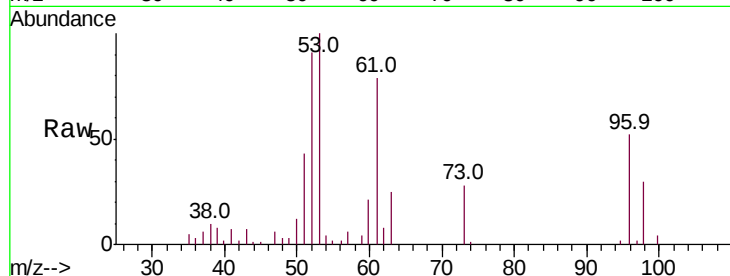
Tot Ion: 53 Resp: 85534

Ion Ratio Lower Upper

53 100

52 90.9 65.0 97.4

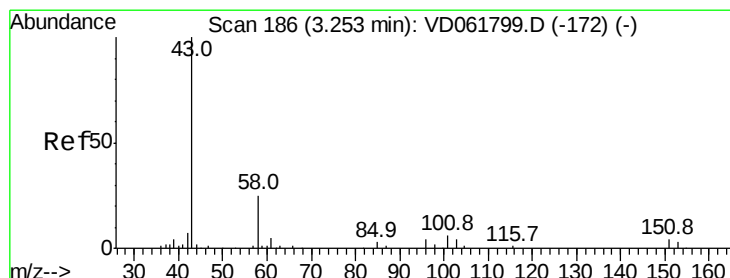
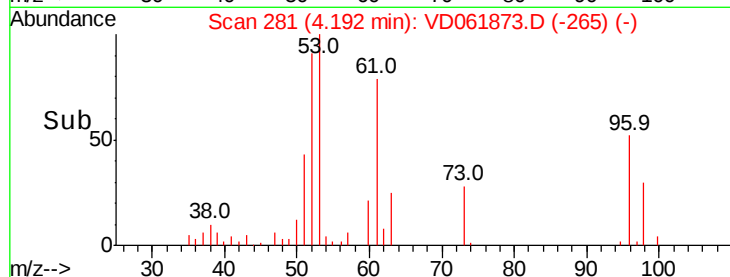
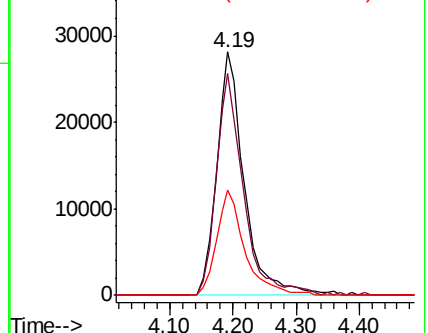
51 43.0 32.6 48.8



Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 110.150 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.03 min

Lab File: VD061873.D

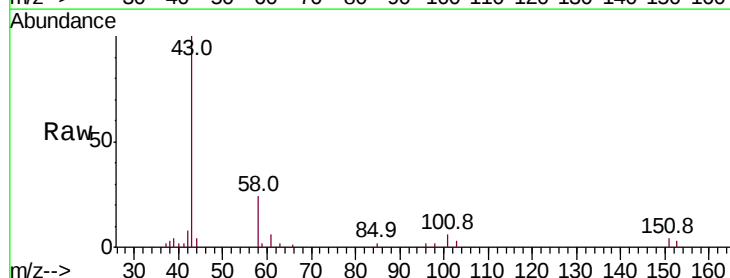
Acq: 18 Apr 2019 14:40

Tgt Ion: 43 Resp: 113726

Ion Ratio Lower Upper

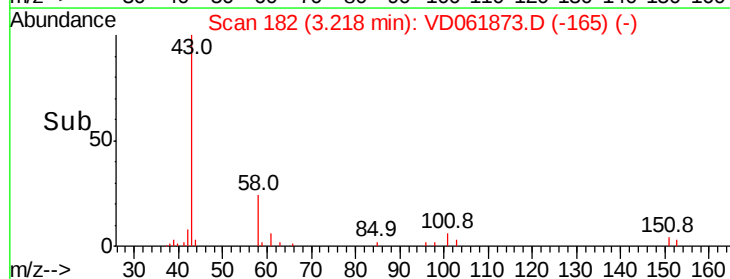
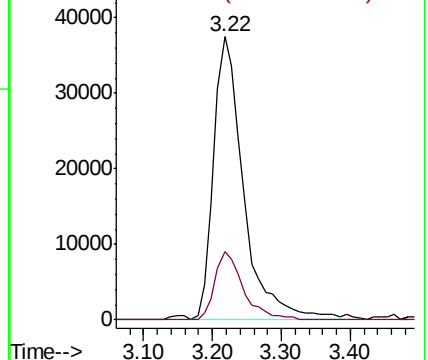
43 100

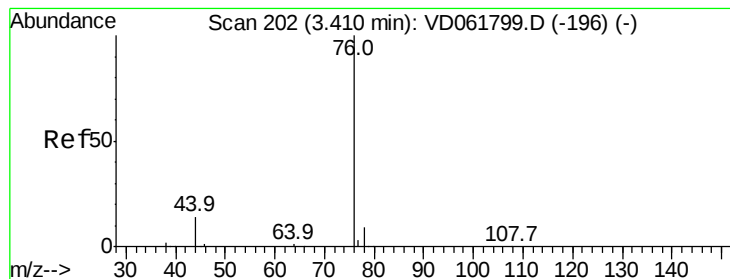
58 24.0 19.9 29.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#17

Carbon Disulfide

Concen: 19.929 ug/l

RT: 3.38 min Scan# 198

Delta R.T. -0.03 min

Lab File: VD061873.D

Acq: 18 Apr 2019 14:40

Instrument :

MSVOA_D

ClientSampleId :

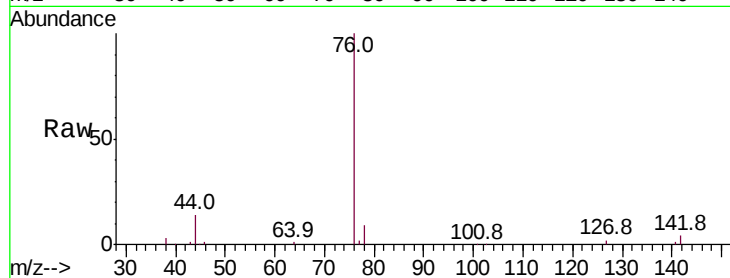
VD0418SBS01

Tot Ion: 76 Resp: 302063

Ion Ratio Lower Upper

76 100

78 8.9 7.2 10.8



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

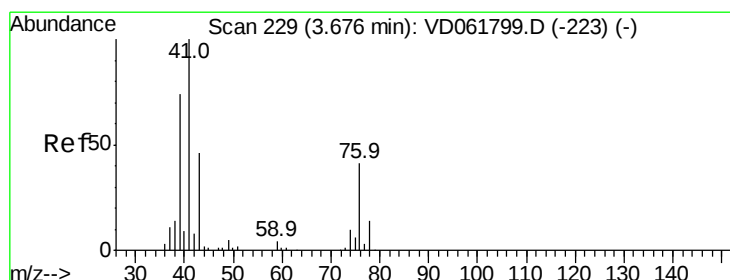
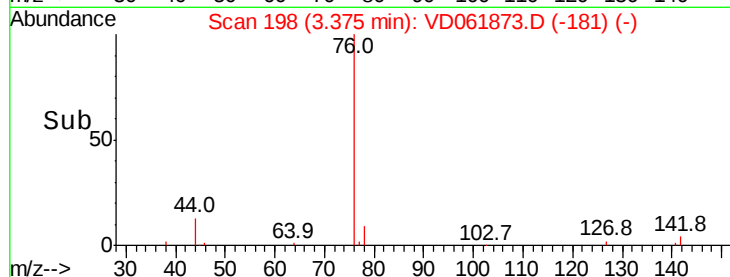
3.38

100000

50000

0

Time--> 3.20 3.30 3.40 3.50 3.60



#18

Methyl Acetate

Concen: 23.009 ug/l

RT: 3.64 min Scan# 225

Delta R.T. -0.03 min

Lab File: VD061873.D

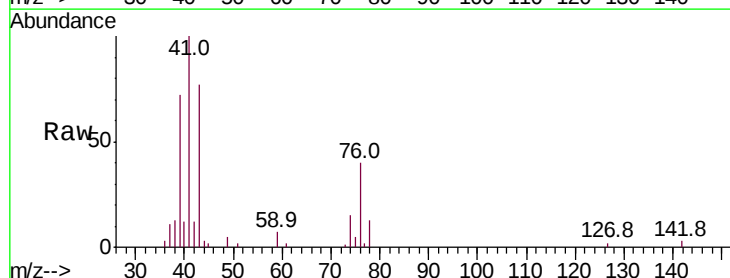
Acq: 18 Apr 2019 14:40

Tgt Ion: 43 Resp: 47615

Ion Ratio Lower Upper

43 100

74 19.8 18.0 27.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

20000

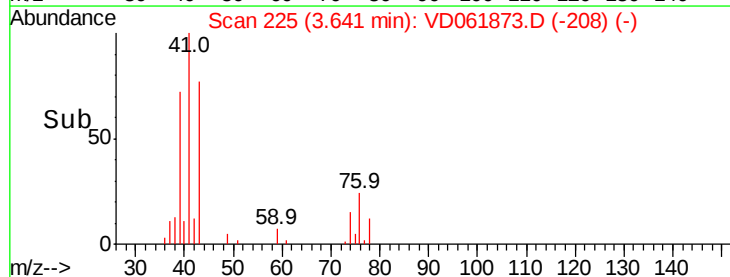
15000

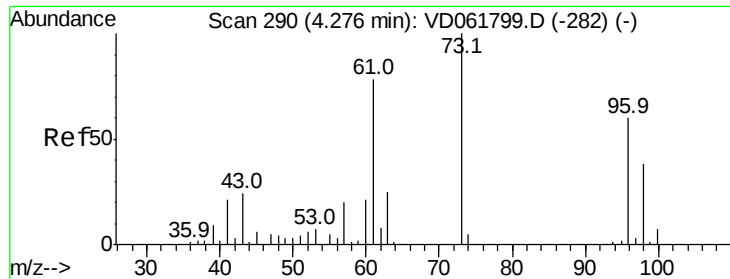
10000

5000

0

Time--> 3.60 3.70

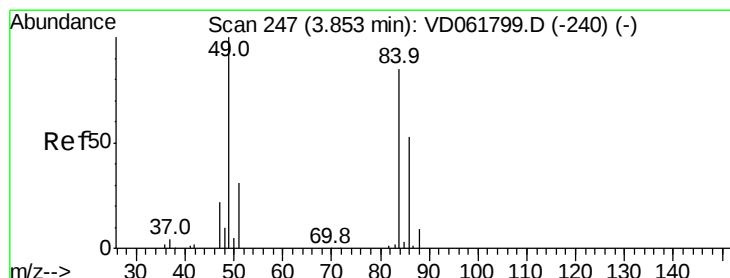
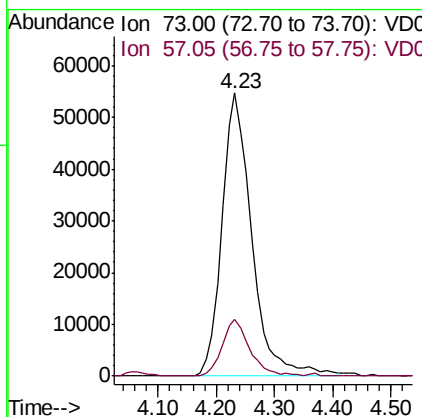
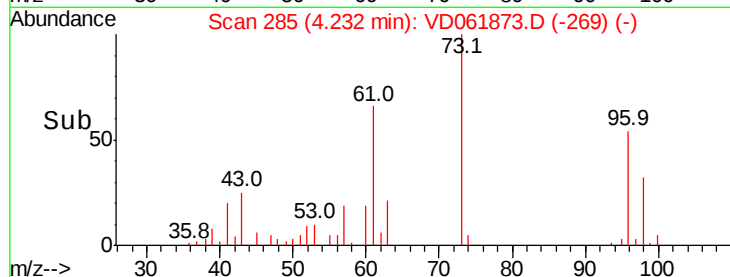
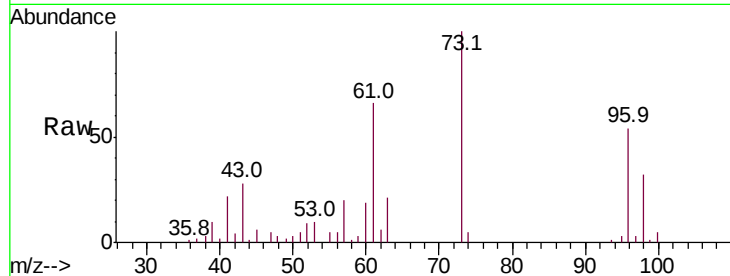




#19
Methyl tert-butyl Ether
Concen: 22.185 ug/l
RT: 4.23 min Scan# 285
Delta R.T. -0.04 min
Lab File: VD061873.D
Acq: 18 Apr 2019 14:40

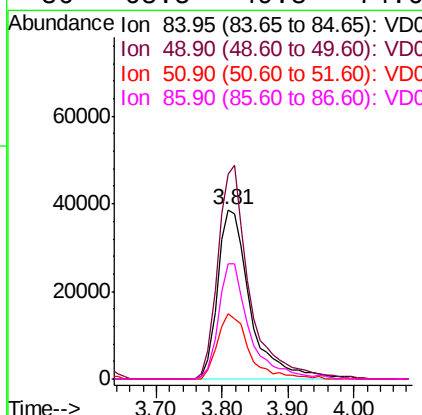
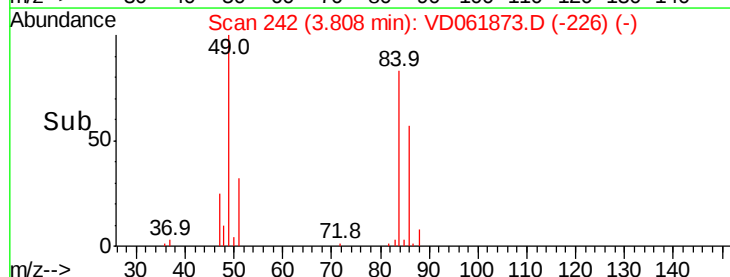
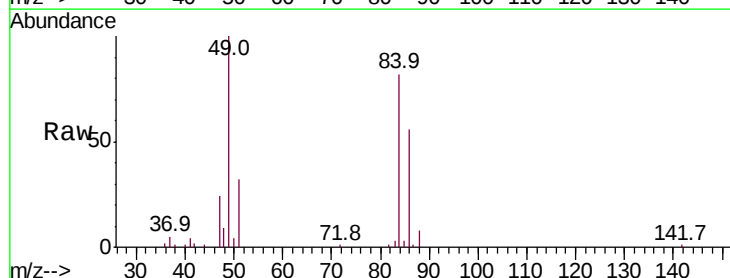
Instrument :
MSVOA_D
ClientSampleId :
VD0418SBS01

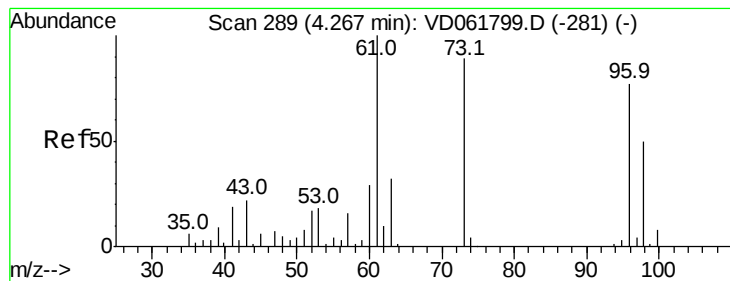
Tot Ion: 73 Resp: 194216
Ion Ratio Lower Upper
73 100
57 19.9 16.3 24.5



#20
Methylene Chloride
Concen: 23.427 ug/l
RT: 3.81 min Scan# 242
Delta R.T. -0.04 min
Lab File: VD061873.D
Acq: 18 Apr 2019 14:40

Tgt Ion: 84 Resp: 132738
Ion Ratio Lower Upper
84 100
49 121.5 94.0 141.0
51 38.9 29.0 43.4
86 68.5 49.8 74.6





#21

trans-1,2-Dichloroethene

Concen: 22.714 ug/l

RT: 4.22 min Scan# 284

Delta R.T. -0.04 min

Lab File: VD061873.D

Acq: 18 Apr 2019 14:40

Instrument :

MSVOA_D

ClientSampleId :

VD0418SBS01

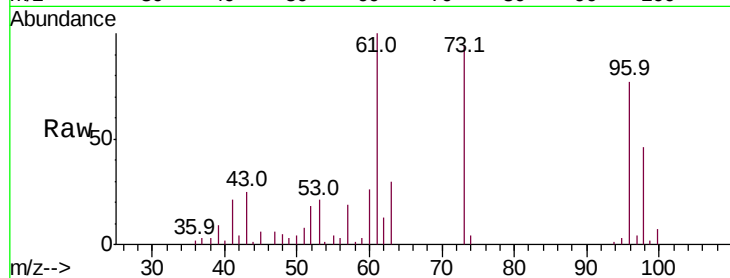
Tot Ion: 96 Resp: 117100

Ion Ratio Lower Upper

96 100

61 130.1 104.4 156.6

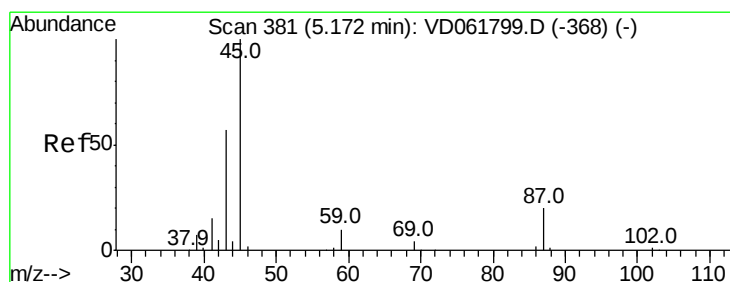
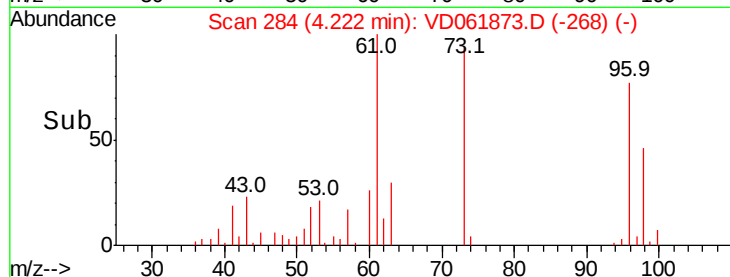
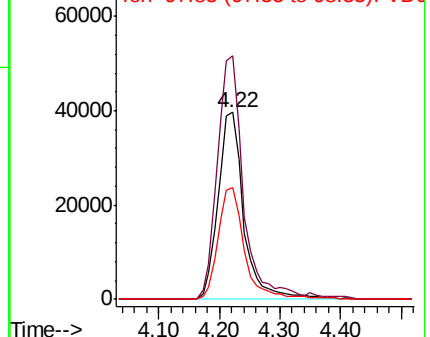
98 59.5 51.8 77.8



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 22.012 ug/l

RT: 5.12 min Scan# 375

Delta R.T. -0.05 min

Lab File: VD061873.D

Acq: 18 Apr 2019 14:40

Tgt Ion: 45 Resp: 300871

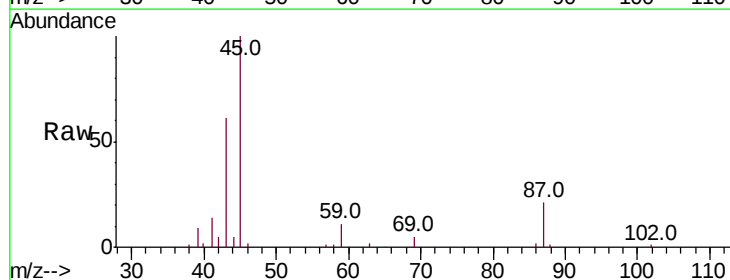
Ion Ratio Lower Upper

45 100

43 61.3 46.2 69.2

87 21.4 15.9 23.9

59 11.2 7.9 11.9

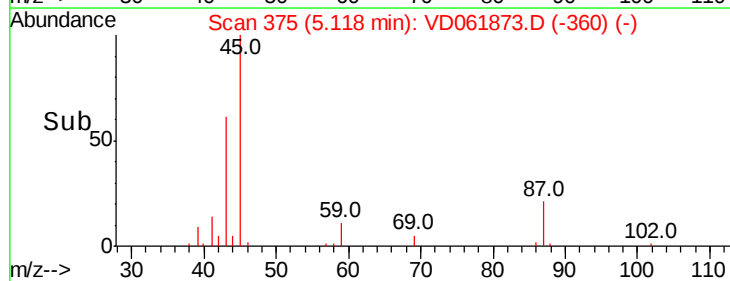
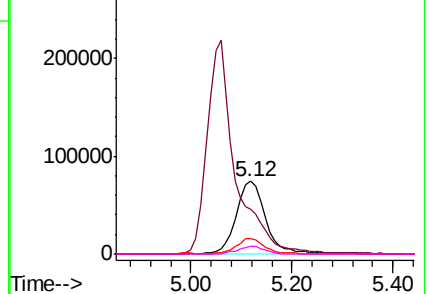


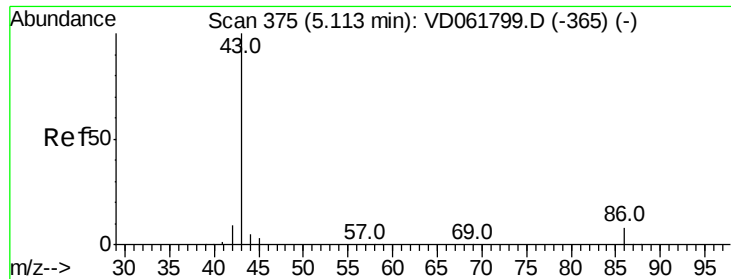
Abundance Ion 45.05 (44.75 to 45.75): VDC

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: 116.727 ug/l

RT: 5.06 min Scan# 369

Delta R.T. -0.05 min

Lab File: VD061873.D

Acq: 18 Apr 2019 14:40

Instrument :

MSVOA_D

ClientSampleId :

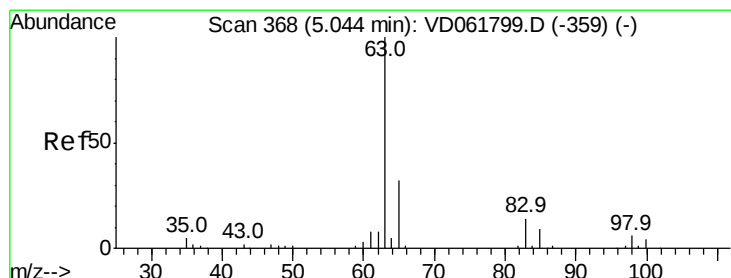
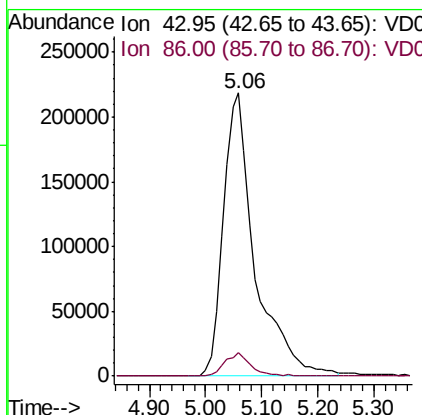
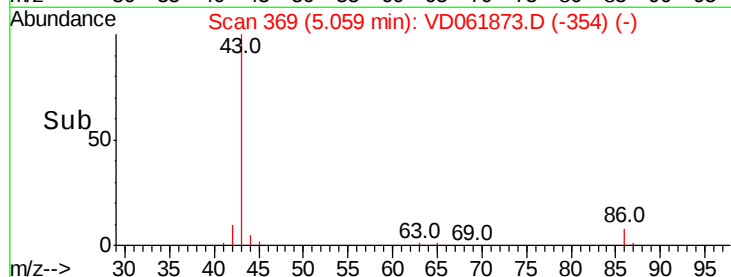
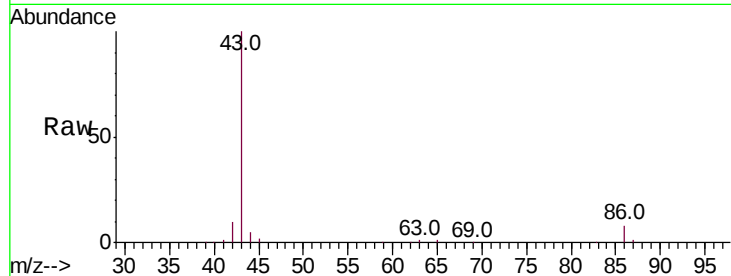
VD0418SBS01

Tot Ion: 43 Resp: 852871

Ion Ratio Lower Upper

43 100

86 8.2 6.4 9.6



#24

1,1-Dichloroethane

Concen: 22.684 ug/l

RT: 4.99 min Scan# 362

Delta R.T. -0.05 min

Lab File: VD061873.D

Acq: 18 Apr 2019 14:40

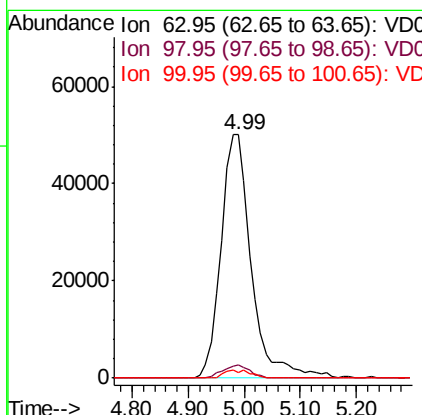
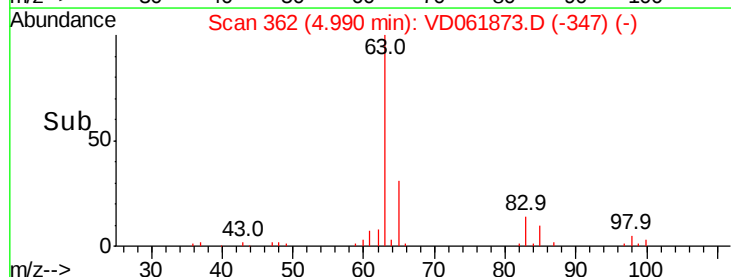
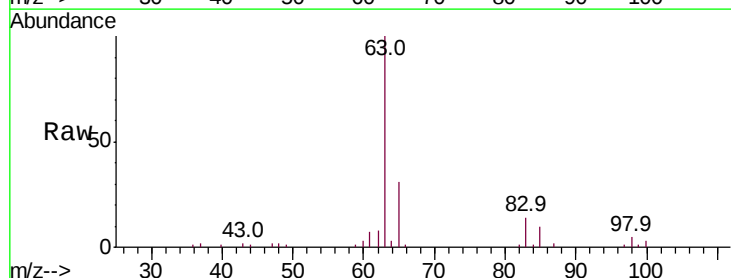
Tgt Ion: 63 Resp: 187981

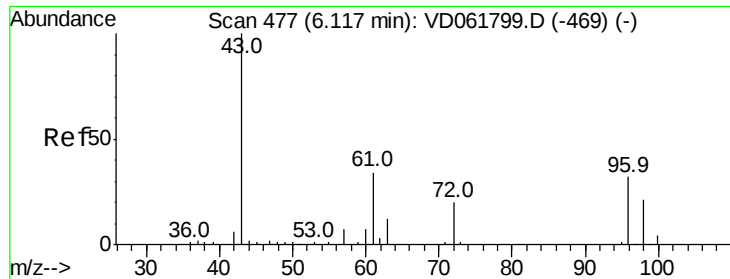
Ion Ratio Lower Upper

63 100

98 5.3 2.8 8.4

100 2.5 1.8 5.5





#25

2-Butanone

Concen: 108.206 ug/l

RT: 6.06 min Scan# 471

Delta R.T. -0.05 min

Lab File: VD061873.D

Acq: 18 Apr 2019 14:40

Instrument :

MSVOA_D

ClientSampleId :

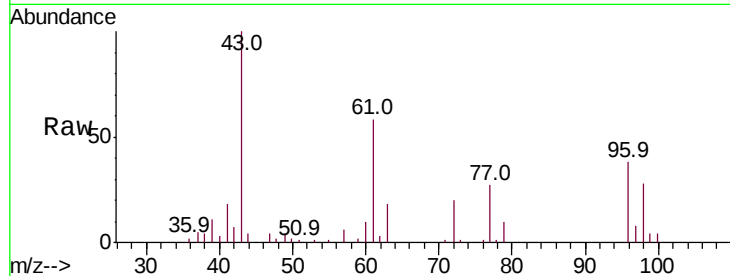
VD0418SBS01

Tot Ion: 43 Resp: 127189

Ion Ratio Lower Upper

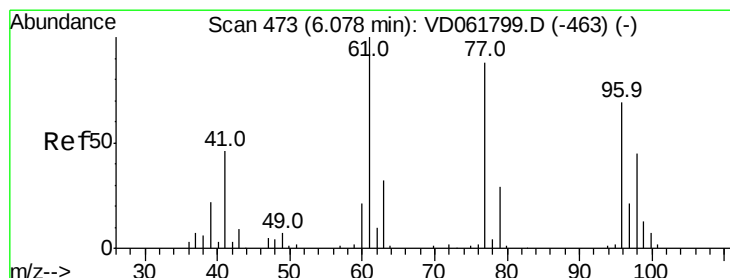
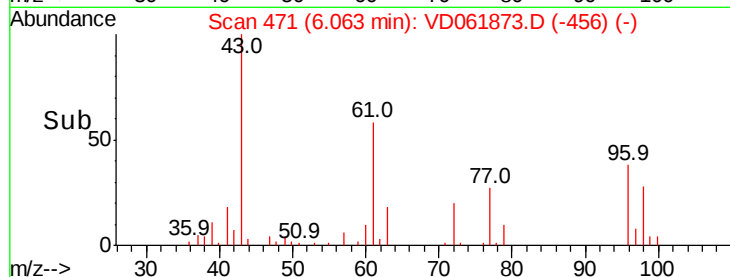
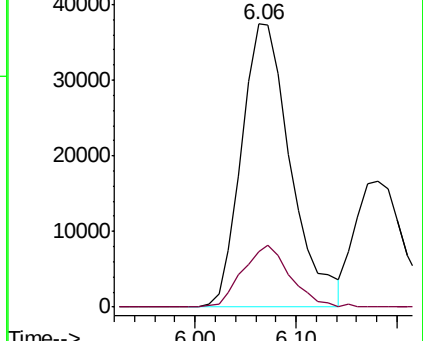
43 100

72 19.7 16.2 24.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 23.281 ug/l

RT: 6.02 min Scan# 467

Delta R.T. -0.05 min

Lab File: VD061873.D

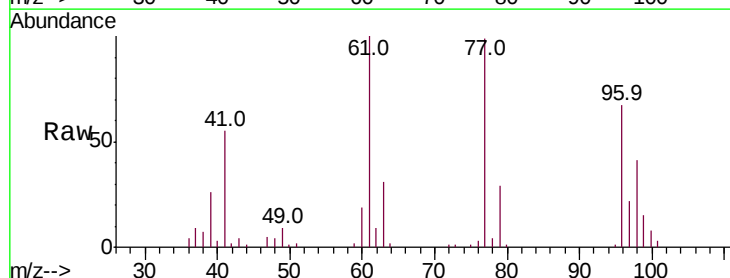
Acq: 18 Apr 2019 14:40

Tgt Ion: 77 Resp: 166762

Ion Ratio Lower Upper

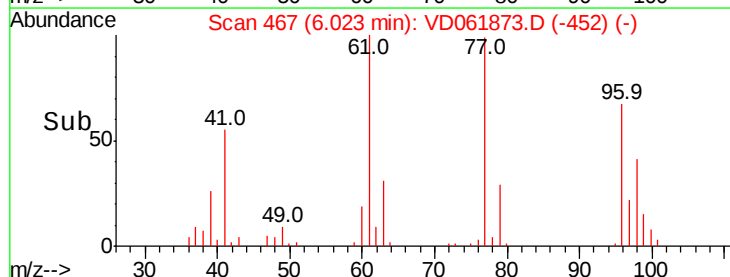
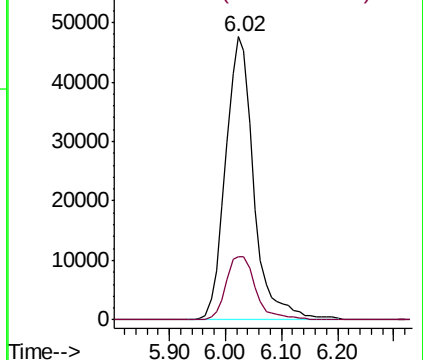
77 100

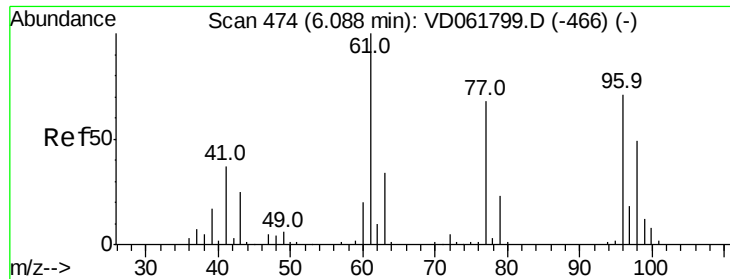
97 22.4 11.9 35.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



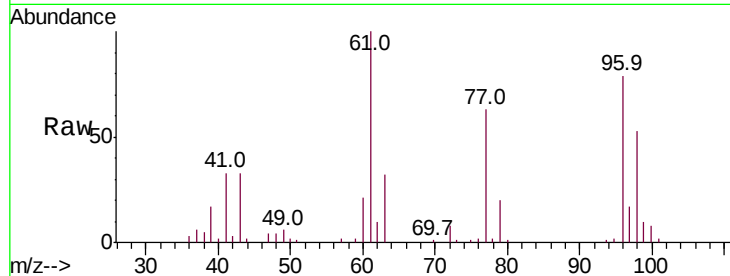


#27

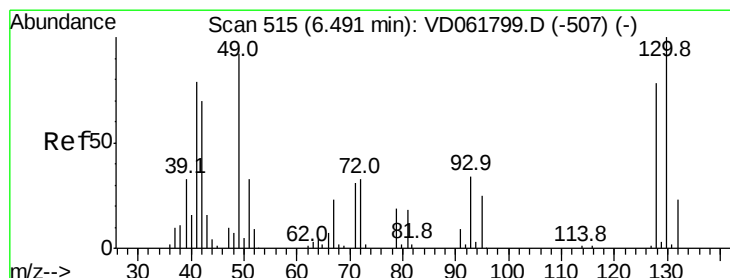
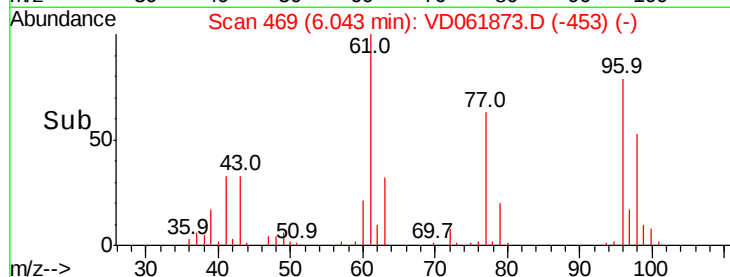
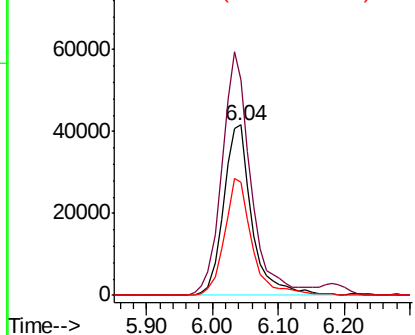
cis-1,2-Dichloroethene
Concen: 22.402 ug/l
RT: 6.04 min Scan# 469
Delta R.T. -0.04 min
Lab File: VD061873.D
Acq: 18 Apr 2019 14:40

Instrument :
MSVOA_D
ClientSampleId :
VD0418SBS01

Tot Ion: 96 Resp: 125199
Ion Ratio Lower Upper
96 100
61 126.7 0.0 279.8
98 66.5 0.0 136.0



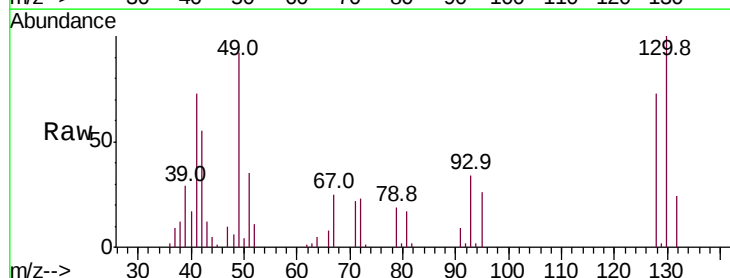
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



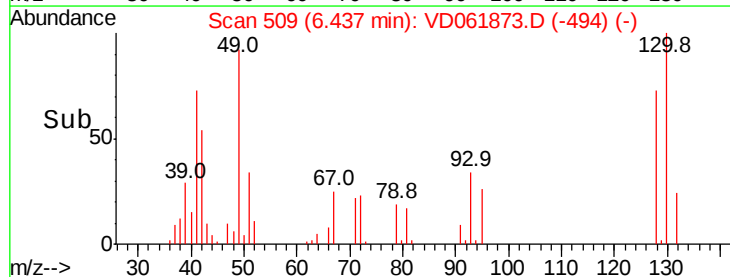
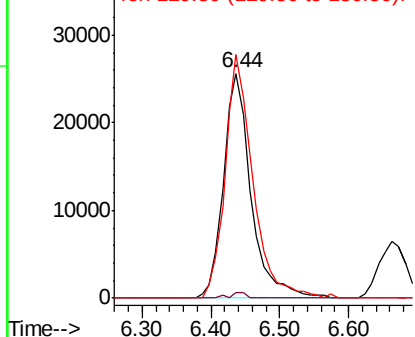
#28

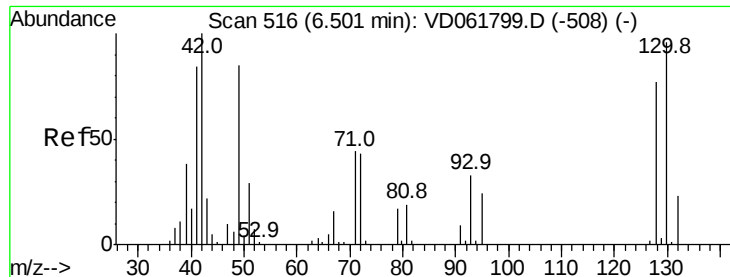
Bromochloromethane
Concen: 22.561 ug/l
RT: 6.44 min Scan# 509
Delta R.T. -0.05 min
Lab File: VD061873.D
Acq: 18 Apr 2019 14:40

Tgt Ion: 49 Resp: 71015
Ion Ratio Lower Upper
49 100
129 2.3 0.0 6.6
130 108.3 86.7 130.1



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





#29

Tetrahydrofuran

Concen: 111.389 ug/l

RT: 6.46 min Scan# 511

Delta R.T. -0.04 min

Lab File: VD061873.D

Acq: 18 Apr 2019 14:40

Instrument :

MSVOA_D

ClientSampleId :

VD0418SBS01

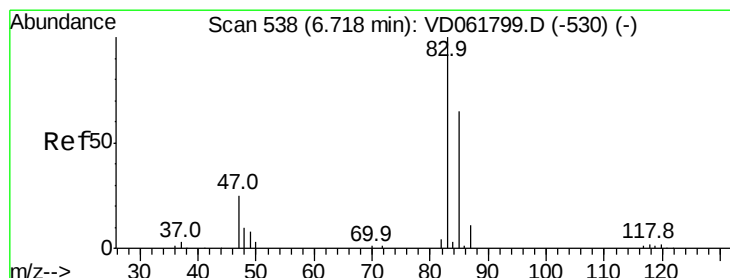
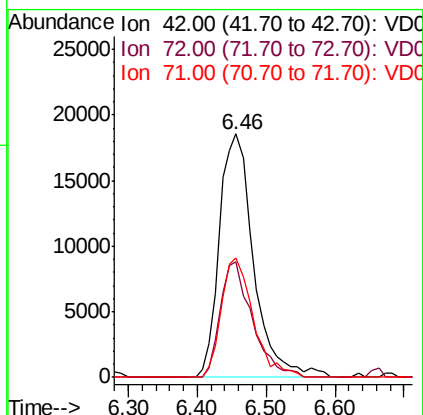
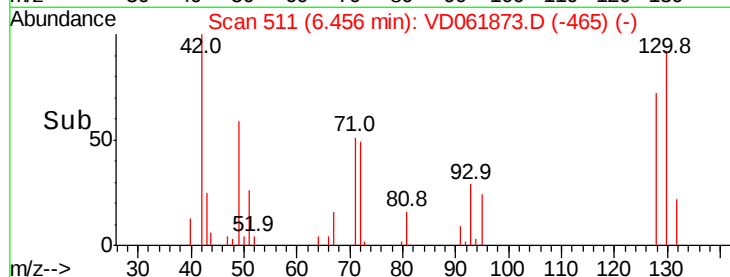
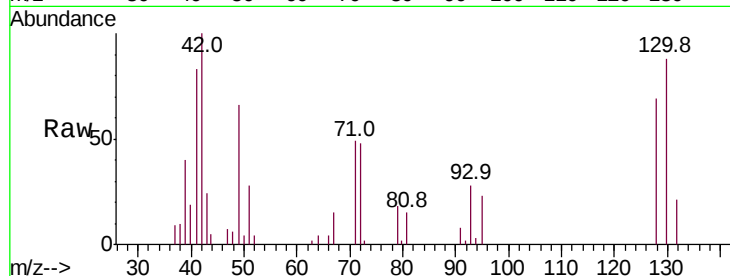
Tot Ion: 42 Resp: 63778

Ion Ratio Lower Upper

42 100

72 44.5 37.8 56.6

71 45.7 36.7 55.1



#30

Chloroform

Concen: 24.000 ug/l

RT: 6.66 min Scan# 532

Delta R.T. -0.05 min

Lab File: VD061873.D

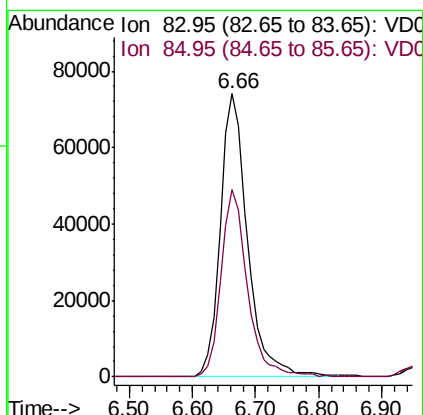
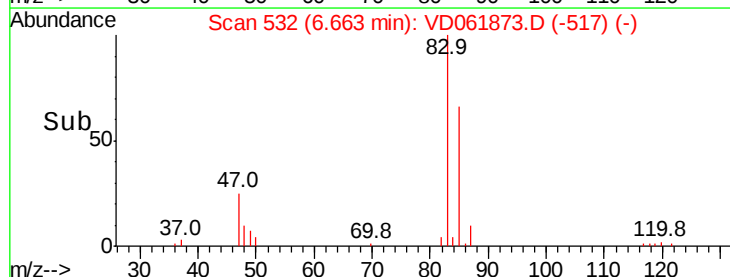
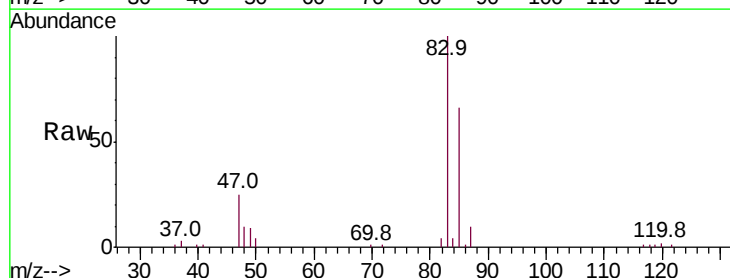
Acq: 18 Apr 2019 14:40

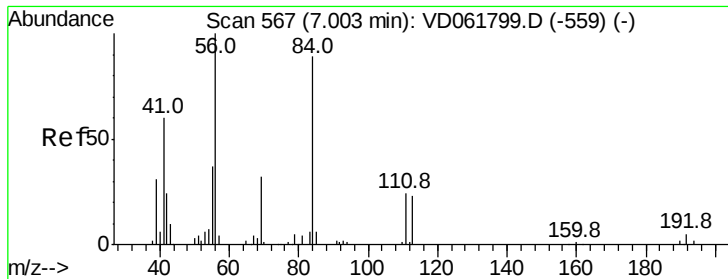
Tgt Ion: 83 Resp: 221835

Ion Ratio Lower Upper

83 100

85 66.3 51.7 77.5

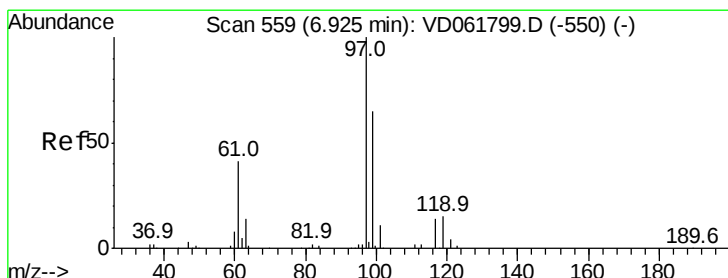
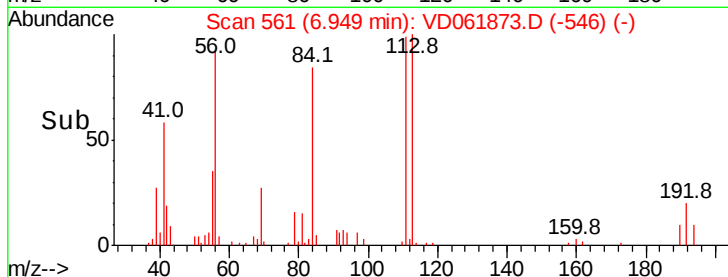
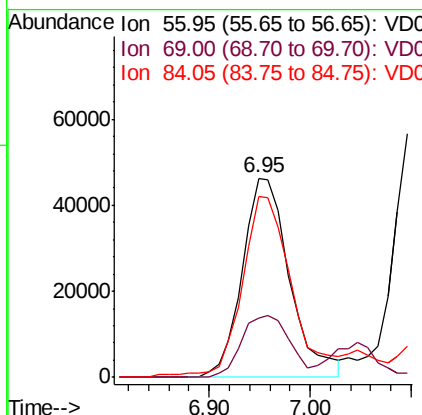
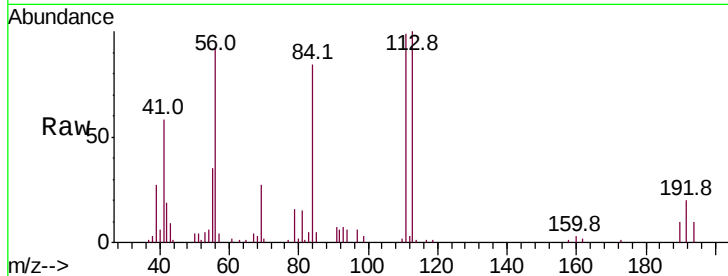




#31
Cyclohexane
Concen: 23.775 ug/l
RT: 6.95 min Scan# 561
Delta R.T. -0.05 min
Lab File: VD061873.D
Acq: 18 Apr 2019 14:40

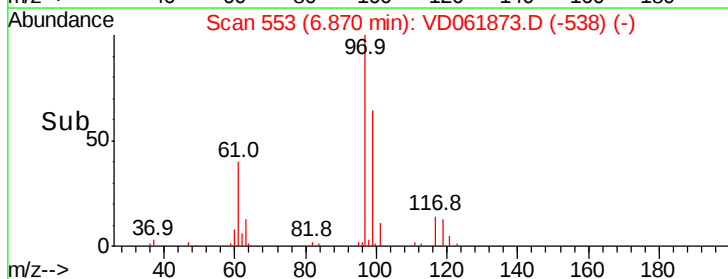
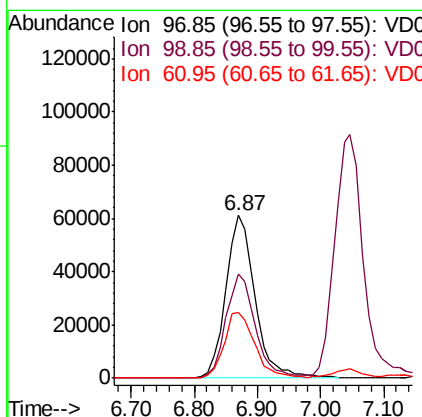
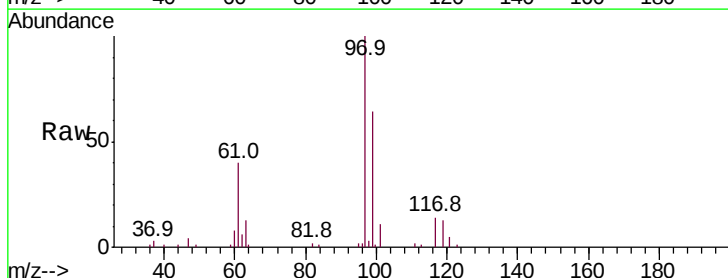
Instrument :
MSVOA_D
ClientSampleId :
VD0418SBS01

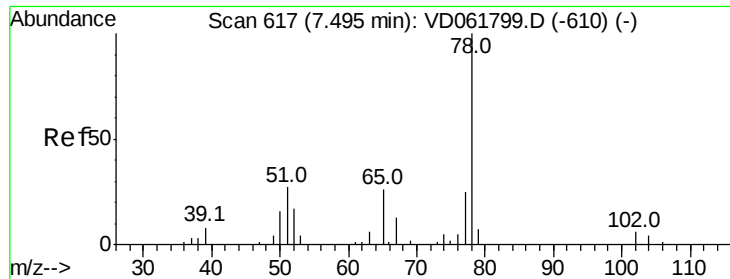
Tot Ion: 56 Resp: 150826
Ion Ratio Lower Upper
56 100
69 29.8 25.8 38.6
84 91.2 72.2 108.4



#32
1,1,1-Trichloroethane
Concen: 23.833 ug/l
RT: 6.87 min Scan# 553
Delta R.T. -0.05 min
Lab File: VD061873.D
Acq: 18 Apr 2019 14:40

Tgt Ion: 97 Resp: 195278
Ion Ratio Lower Upper
97 100
99 63.9 52.2 78.2
61 40.3 32.4 48.6





#33

1,2-Dichloroethane-d4

Concen: 23.833 ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.04 min

Lab File: VD061873.D

Acq: 18 Apr 2019 14:40

Instrument :

MSVOA_D

ClientSampleId :

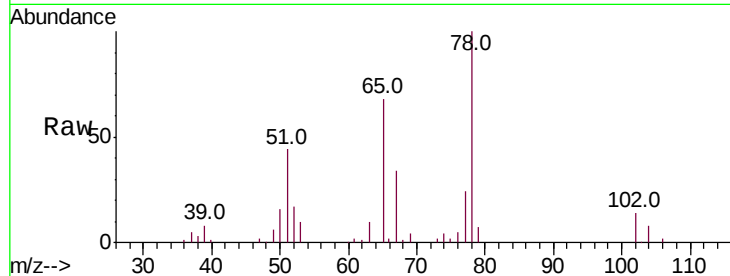
VD0418SBS01

Tot Ion: 65 Resp: 234435

Ion Ratio Lower Upper

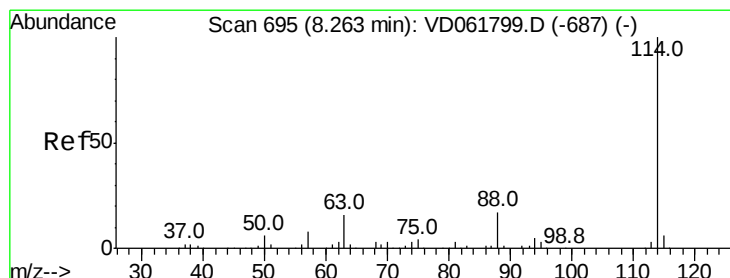
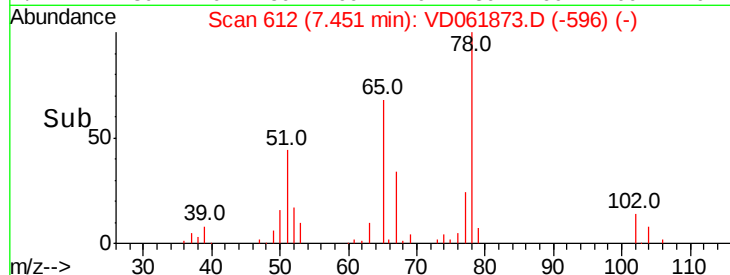
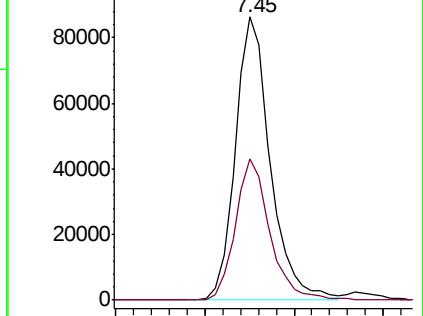
65 100

67 50.1 0.0 98.0



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: 8.22 min Scan# 690

Delta R.T. -0.04 min

Lab File: VD061873.D

Acq: 18 Apr 2019 14:40

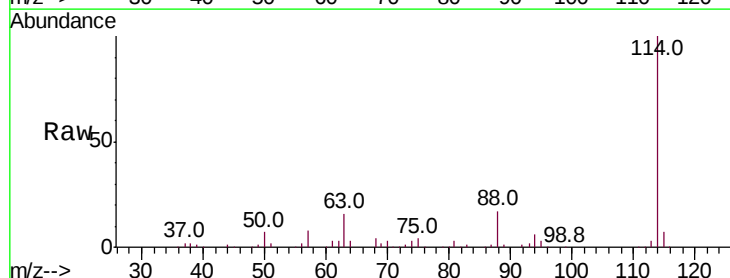
Tgt Ion: 114 Resp: 797771

Ion Ratio Lower Upper

114 100

63 16.2 0.0 32.4

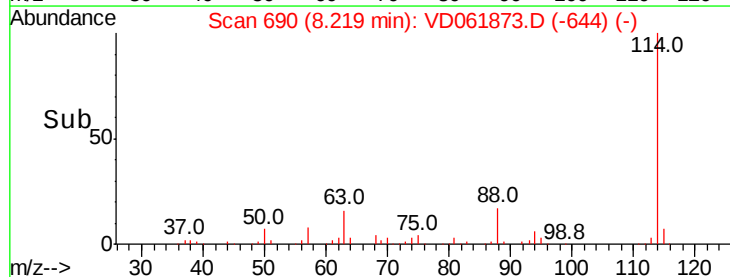
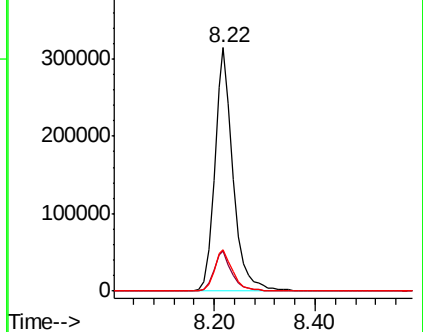
88 17.2 0.0 33.6

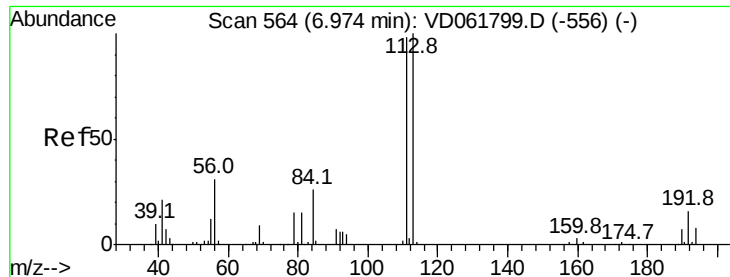


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.93 min Scan# 559

Delta R.T. -0.04 min

Lab File: VD061873.D

Acq: 18 Apr 2019 14:40

Instrument :

MSVOA_D

ClientSampleId :

VD0418SBS01

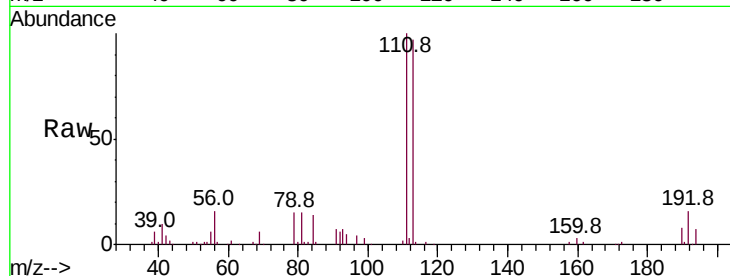
Tot Ion:113 Resp: 338805

Ion Ratio Lower Upper

113 100

111 102.8 78.5 117.7

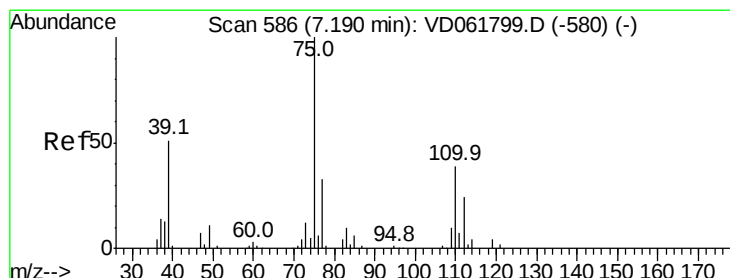
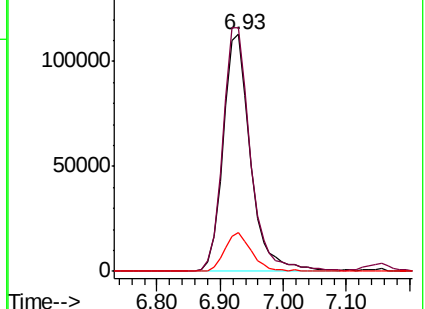
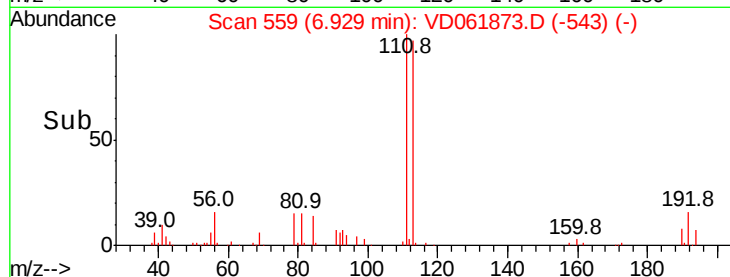
192 16.2 13.0 19.4



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: 23.846 ug/l

RT: 7.15 min Scan# 581

Delta R.T. -0.04 min

Lab File: VD061873.D

Acq: 18 Apr 2019 14:40

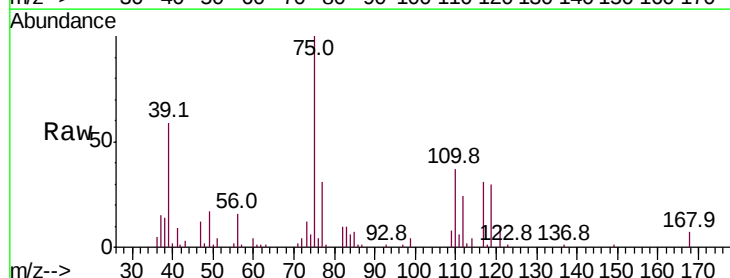
Tgt Ion: 75 Resp: 155455

Ion Ratio Lower Upper

75 100

110 36.5 19.1 57.1

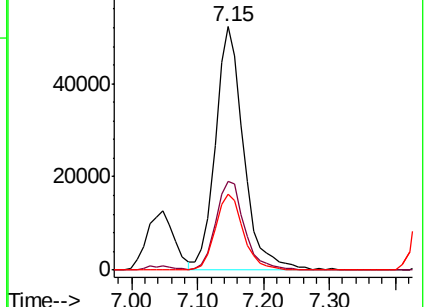
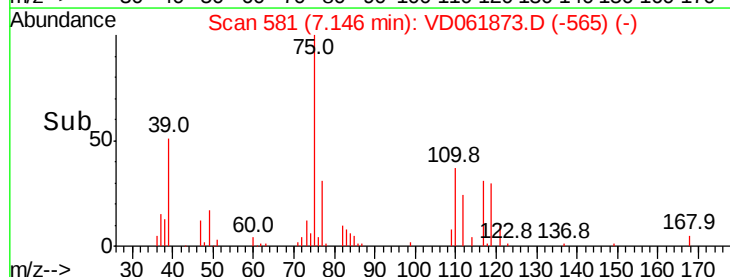
77 31.2 25.6 38.4

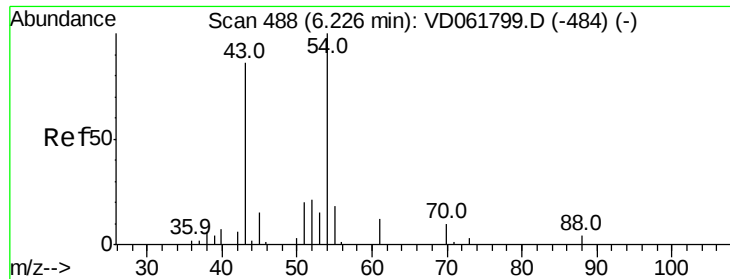


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#37

Ethyl Acetate

Concen: 21.468 ug/l

RT: 6.18 min Scan# 483

Delta R.T. -0.04 min

Lab File: VD061873.D

Acq: 18 Apr 2019 14:40

Instrument :

MSVOA_D

ClientSampleId :

VD0418SBS01

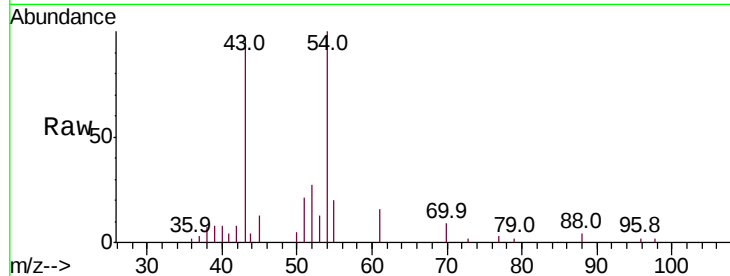
Tot Ion: 43 Resp: 59897

Ion Ratio Lower Upper

43 100

61 16.9 14.7 22.1

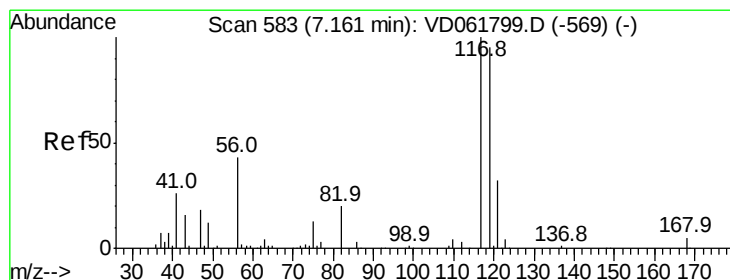
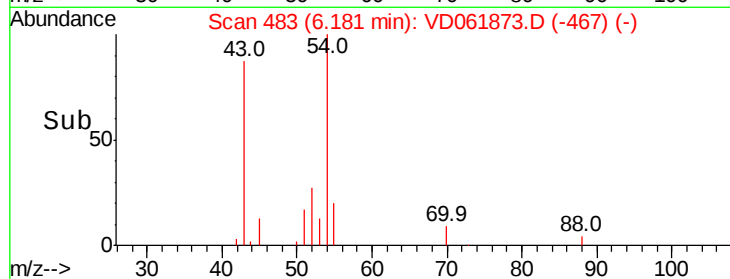
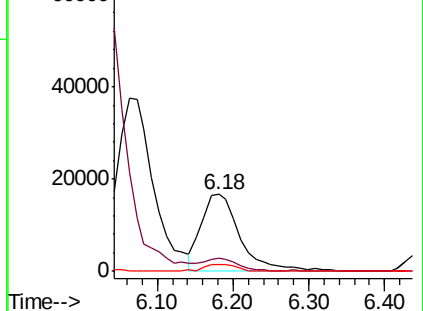
70 9.5 7.8 11.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC



#38

Carbon Tetrachloride

Concen: 23.875 ug/l

RT: 7.12 min Scan# 578

Delta R.T. -0.04 min

Lab File: VD061873.D

Acq: 18 Apr 2019 14:40

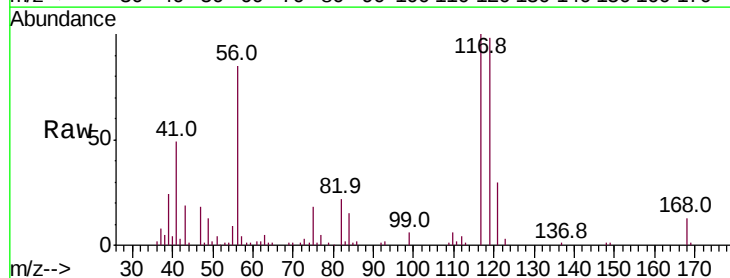
Tgt Ion: 117 Resp: 196529

Ion Ratio Lower Upper

117 100

119 97.7 75.8 113.8

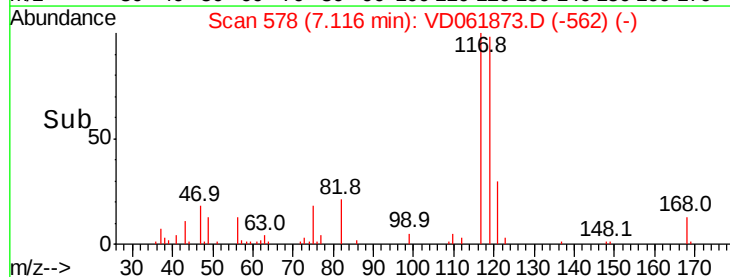
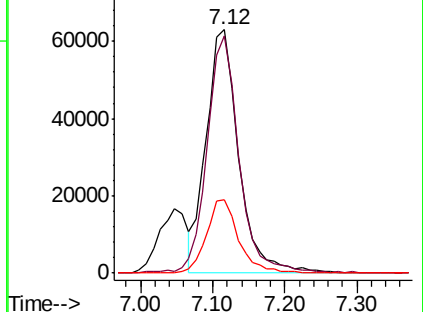
121 30.0 25.9 38.9

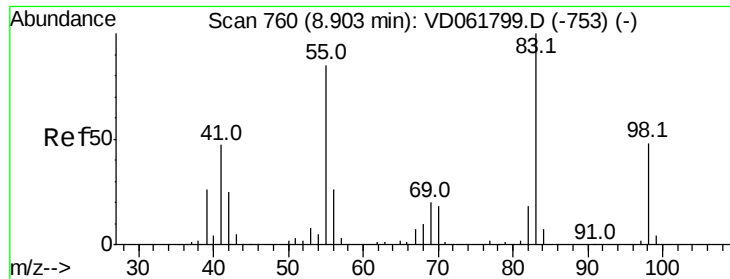


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

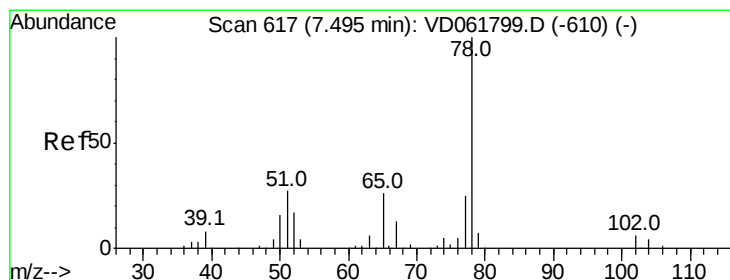
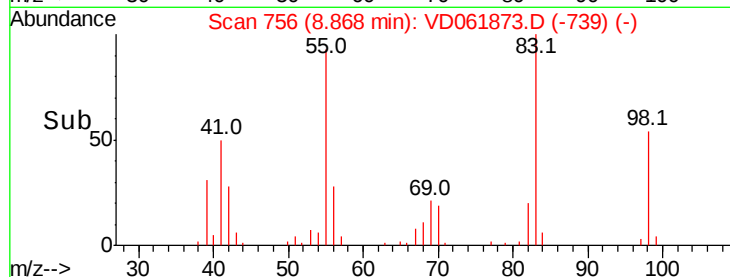
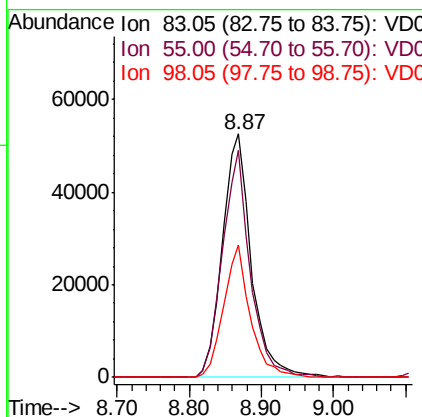
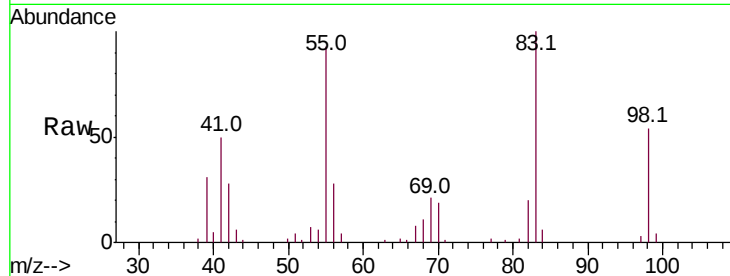




#39
Methvlcvclohexane
Concen: 21.540 ug/l
RT: 8.87 min Scan# 756
Delta R.T. -0.03 min
Lab File: VD061873.D
Acq: 18 Apr 2019 14:40

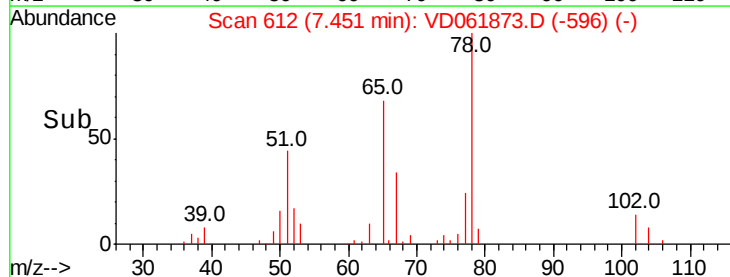
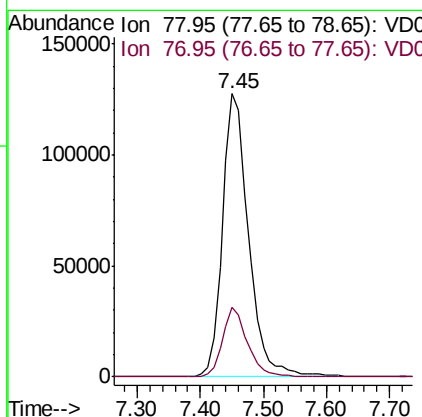
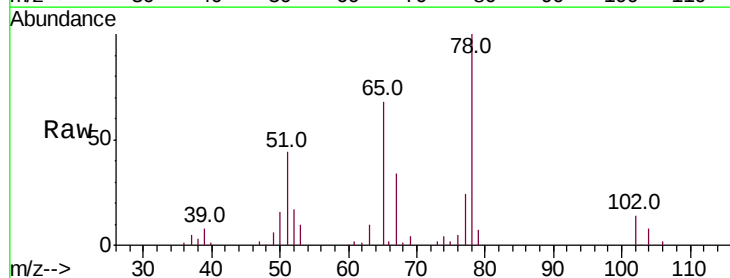
Instrument :
MSVOA_D
ClientSampleId :
VD0418SBS01

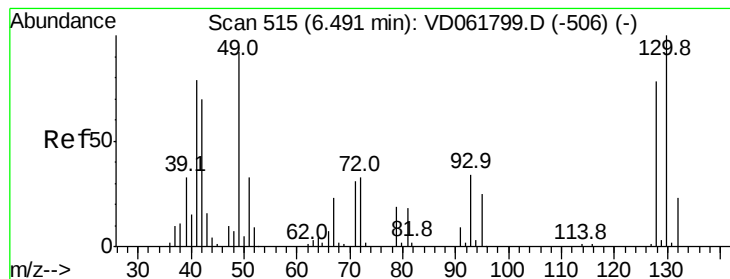
Tot Ion: 83 Resp: 145817
Ion Ratio Lower Upper
83 100
55 93.0 68.2 102.4
98 54.4 38.2 57.4



#40
Benzene
Concen: 23.376 ug/l
RT: 7.45 min Scan# 612
Delta R.T. -0.04 min
Lab File: VD061873.D
Acq: 18 Apr 2019 14:40

Tgt Ion: 78 Resp: 365848
Ion Ratio Lower Upper
78 100
77 24.4 19.7 29.5





#41

Methacrylonitrile

Concen: 22.795 ug/l

RT: 6.44 min Scan# 509

Delta R.T. -0.05 min

Lab File: VD061873.D

Acq: 18 Apr 2019 14:40

Instrument :

MSVOA_D

ClientSampleId :

VD0418SBS01

Tot Ion: 41 Resp: 75174

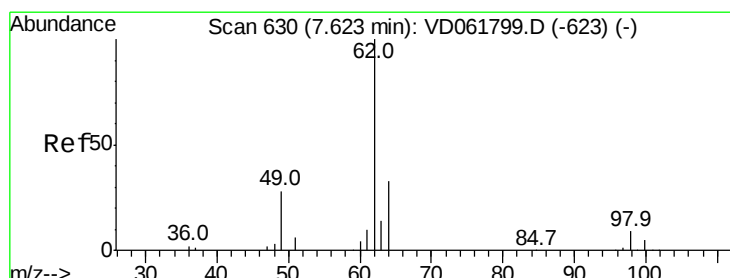
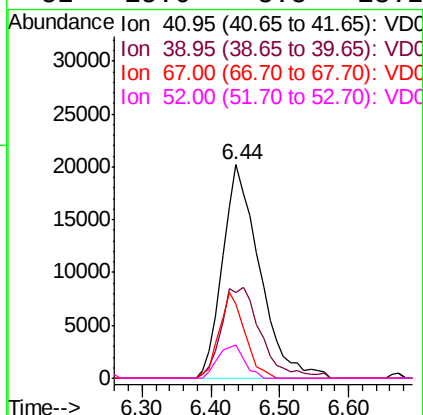
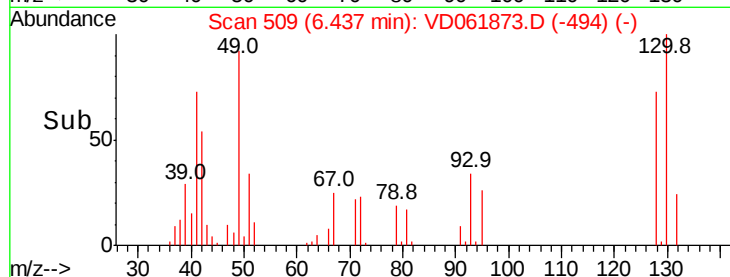
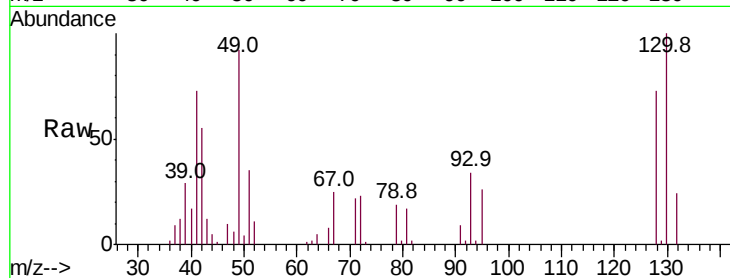
Ion Ratio Lower Upper

41 100

39 40.5 34.1 51.1

67 34.7 23.8 35.6

52 15.6 8.8 13.2#



#42

1,2-Dichloroethane

Concen: 23.317 ug/l

RT: 7.58 min Scan# 625

Delta R.T. -0.04 min

Lab File: VD061873.D

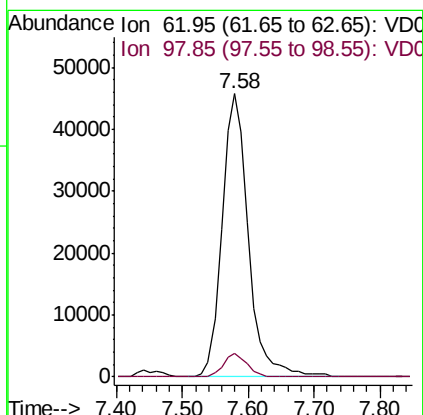
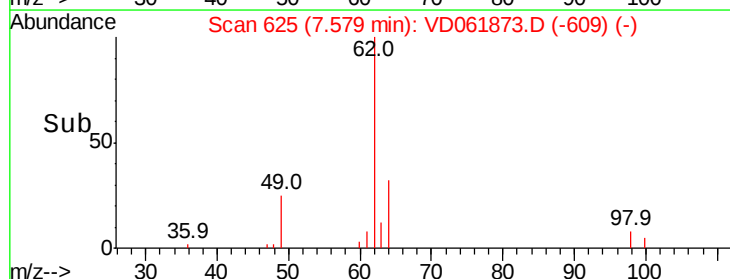
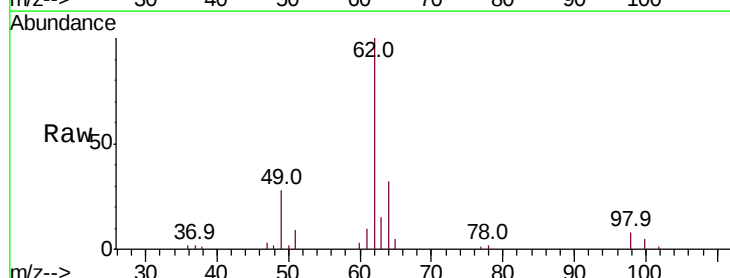
Acq: 18 Apr 2019 14:40

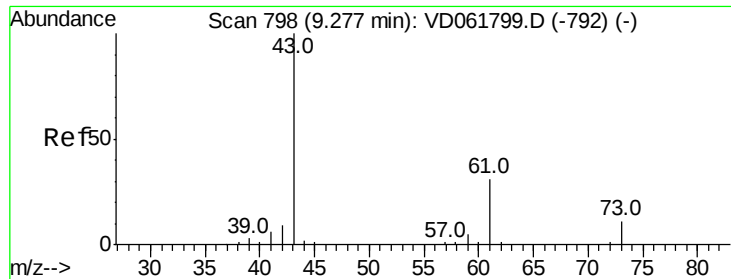
Tgt Ion: 62 Resp: 127097

Ion Ratio Lower Upper

62 100

98 8.2 0.0 17.8





#43

Isopropyl Acetate

Concen: 23.124 ug/l

RT: 9.24 min Scan# 794

Delta R.T. -0.03 min

Lab File: VD061873.D

Acq: 18 Apr 2019 14:40

Instrument :

MSVOA_D

ClientSampleId :

VD0418SBS01

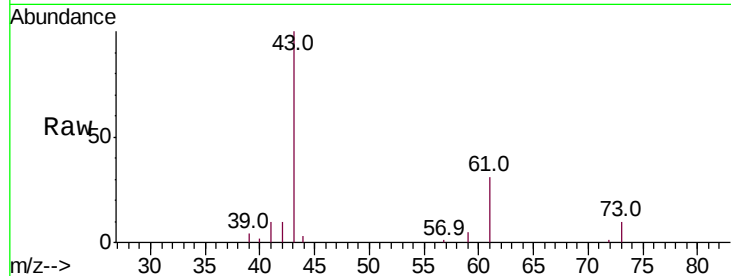
Tot Ion: 43 Resp: 90794

Ion Ratio Lower Upper

43 100

61 30.9 25.1 37.7

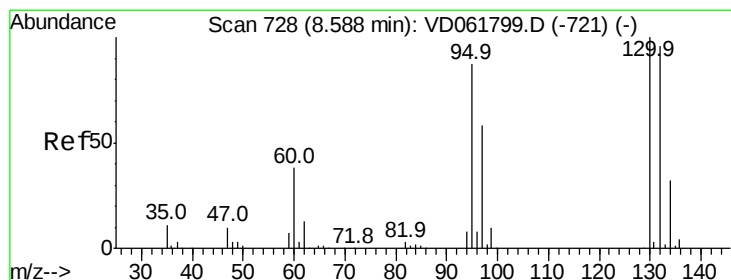
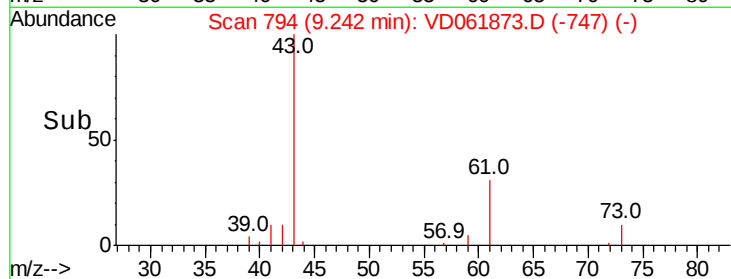
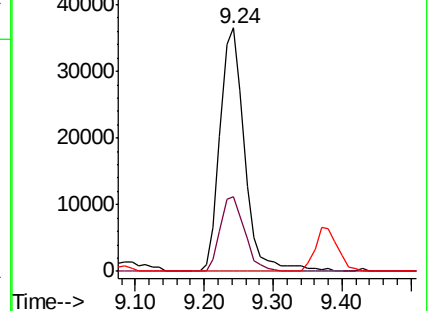
87 0.0 0.0 0.0



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: 22.955 ug/l

RT: 8.54 min Scan# 723

Delta R.T. -0.04 min

Lab File: VD061873.D

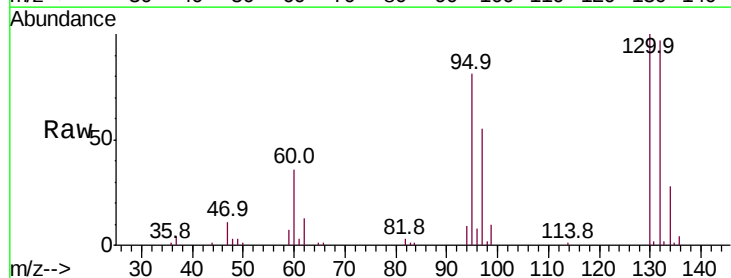
Acq: 18 Apr 2019 14:40

Tgt Ion:130 Resp: 138305

Ion Ratio Lower Upper

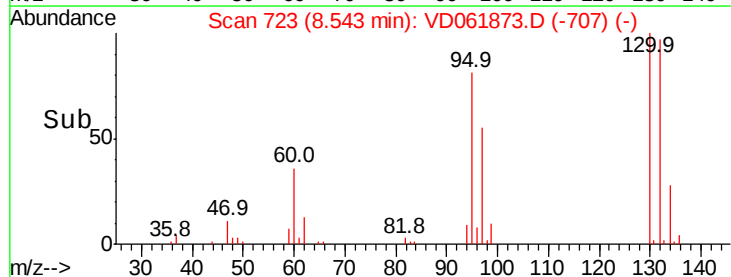
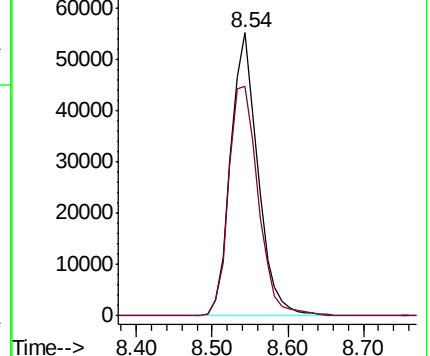
130 100

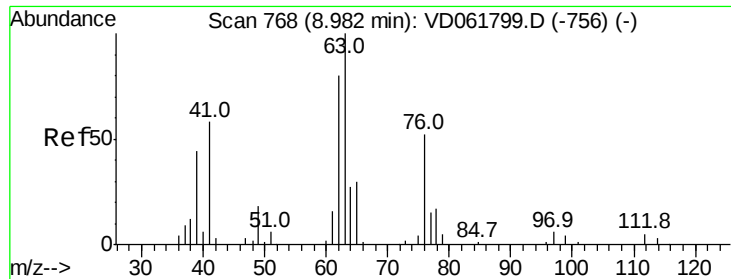
95 81.0 0.0 174.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 23.623 ug/l

RT: 8.94 min Scan# 763

Delta R.T. -0.04 min

Lab File: VD061873.D

Acq: 18 Apr 2019 14:40

Instrument :

MSVOA_D

ClientSampleId :

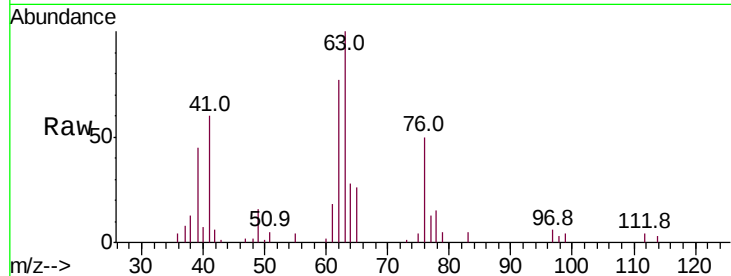
VD0418SBS01

Tot Ion: 63 Resp: 96303

Ion Ratio Lower Upper

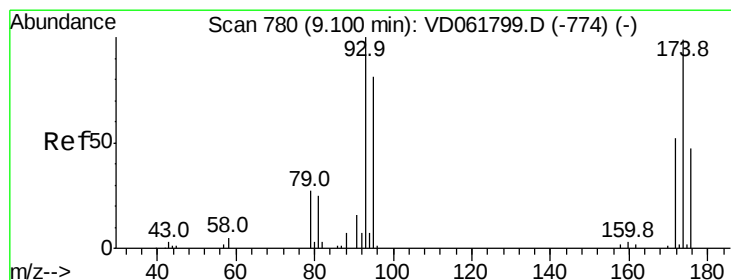
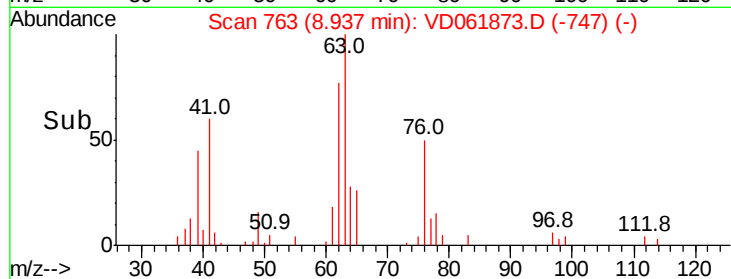
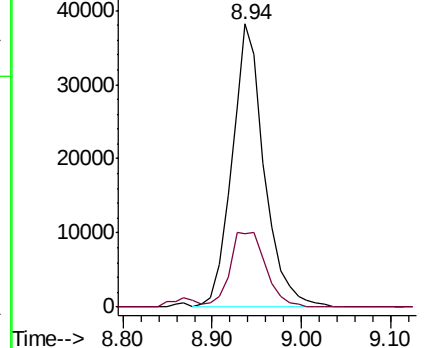
63 100

65 26.0 23.8 35.6



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 23.296 ug/l

RT: 9.07 min Scan# 776

Delta R.T. -0.03 min

Lab File: VD061873.D

Acq: 18 Apr 2019 14:40

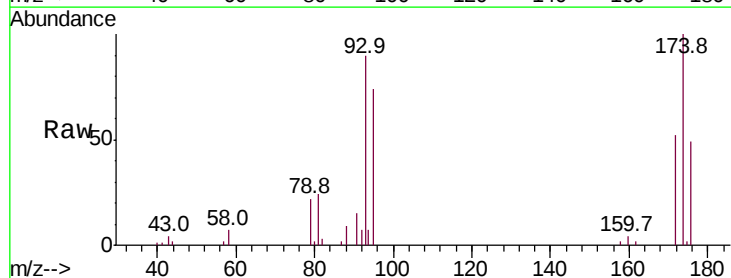
Tgt Ion: 93 Resp: 67671

Ion Ratio Lower Upper

93 100

95 81.7 64.8 97.2

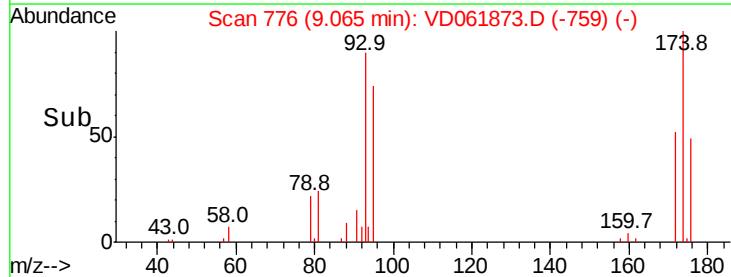
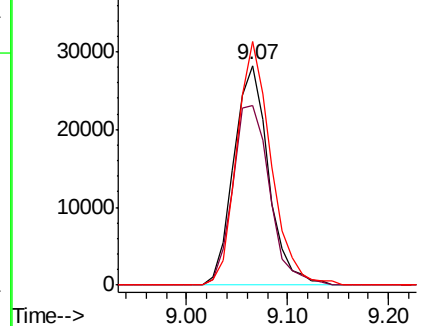
174 110.8 79.3 118.9

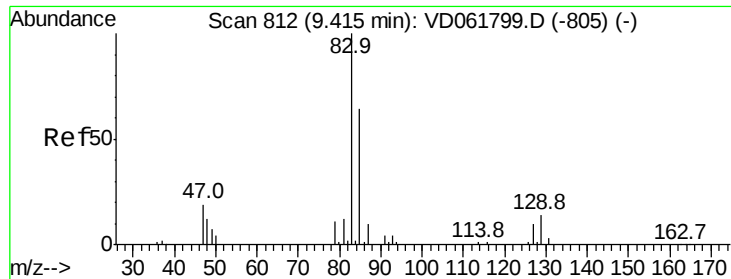


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V





#47

Bromodichloromethane

Concen: 23.286 ug/l

RT: 9.38 min Scan# 808

Delta R.T. -0.03 min

Lab File: VD061873.D

Acq: 18 Apr 2019 14:40

Instrument :

MSVOA_D

ClientSampleId :

VD0418SBS01

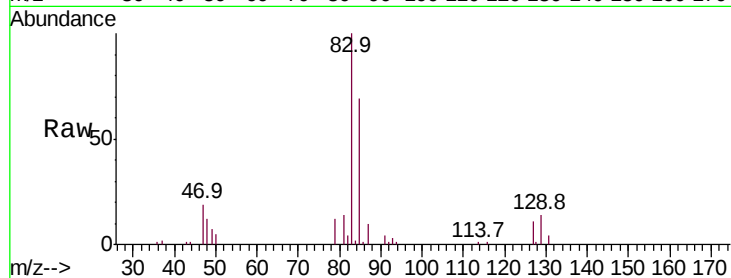
Tot Ion: 83 Resp: 156047

Ion Ratio Lower Upper

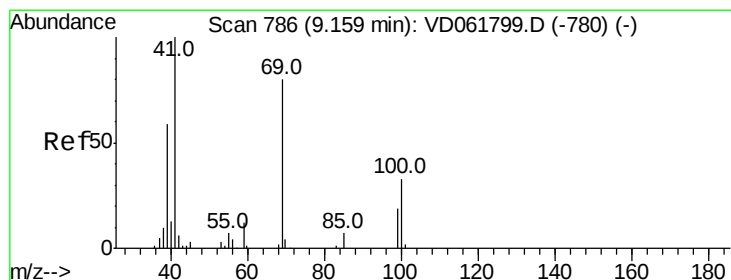
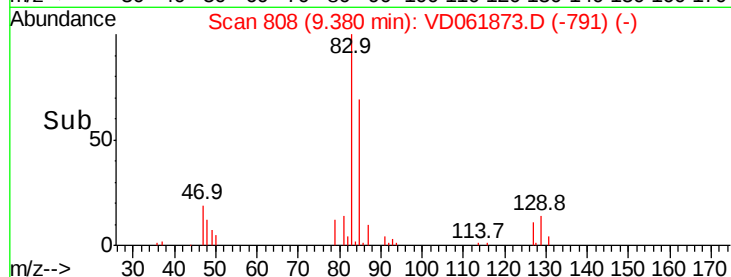
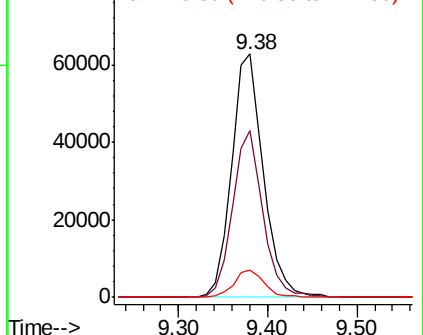
83 100

85 68.5 50.9 76.3

127 11.0 8.1 12.1



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: 24.089 ug/l

RT: 9.12 min Scan# 782

Delta R.T. -0.03 min

Lab File: VD061873.D

Acq: 18 Apr 2019 14:40

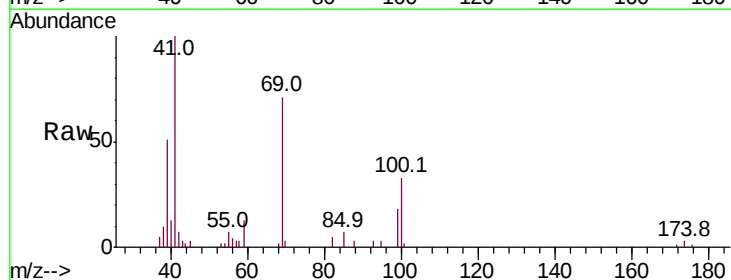
Tgt Ion: 41 Resp: 55596

Ion Ratio Lower Upper

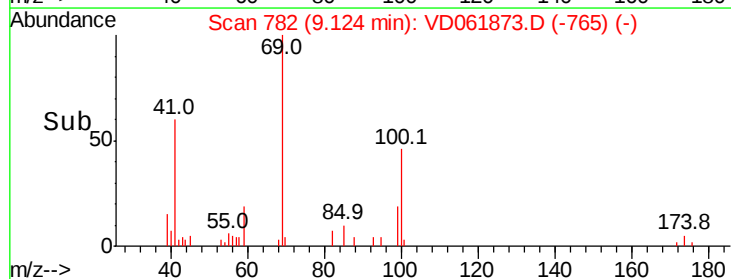
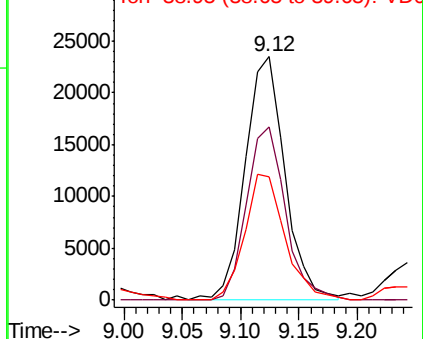
41 100

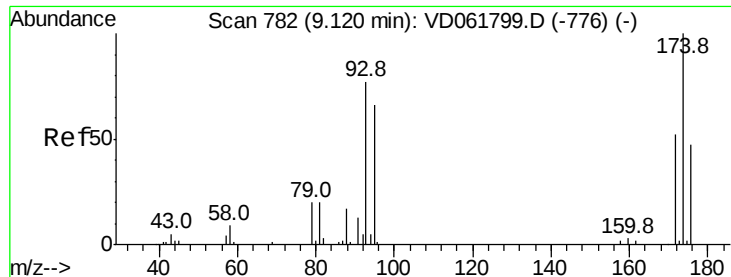
69 71.3 64.2 96.2

39 50.9 46.8 70.2



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: 497.576 ug/l

RT: 9.08 min Scan# 778

Delta R.T. -0.03 min

Lab File: VD061873.D

Acq: 18 Apr 2019 14:40

Instrument :

MSVOA_D

ClientSampleId :

VD0418SBS01

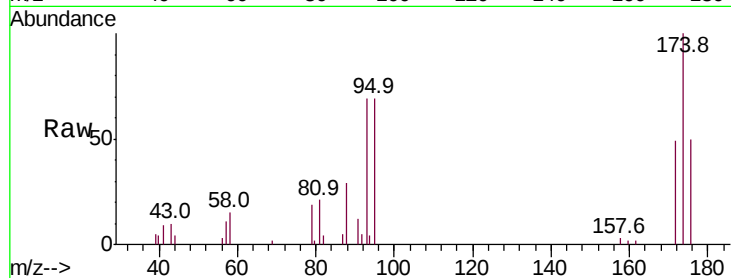
Tot Ion: 88 Resp: 12552

Ion Ratio Lower Upper

88 100

43 34.3 23.4 35.0

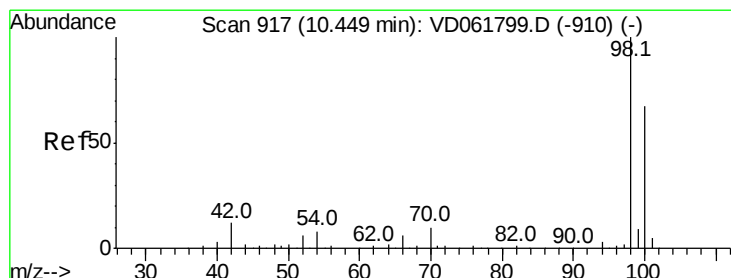
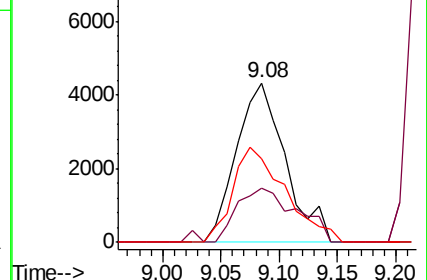
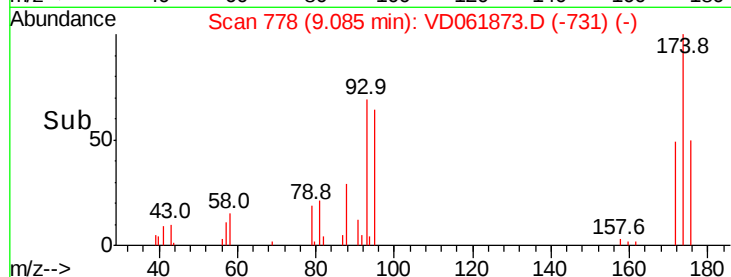
58 52.2 44.0 66.0



Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC



#50

Toluene-d8

Concen: 497.576 ug/l

RT: 10.41 min Scan# 913

Delta R.T. -0.03 min

Lab File: VD061873.D

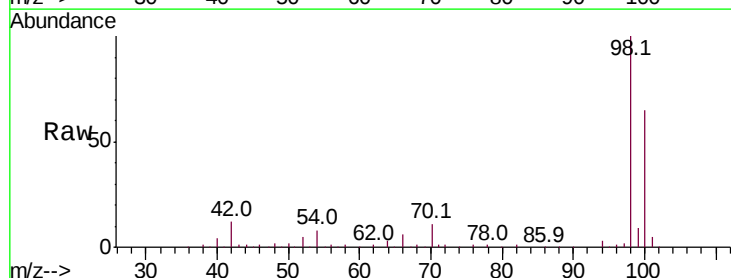
Acq: 18 Apr 2019 14:40

Tgt Ion: 98 Resp: 761782

Ion Ratio Lower Upper

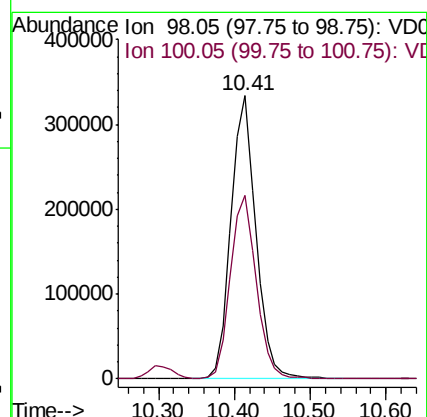
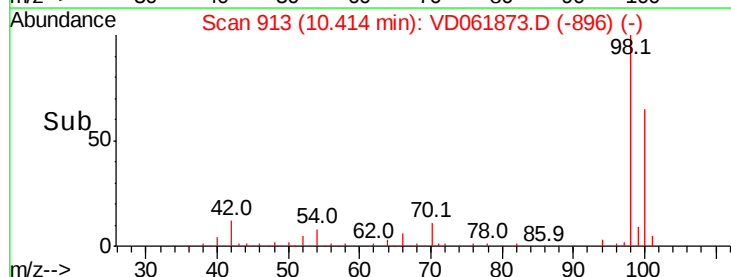
98 100

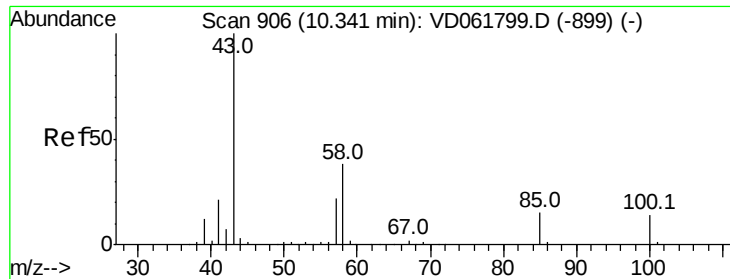
100 64.8 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#51

4-Methyl-2-Pentanone

Concen: 123.549 ug/l

RT: 10.30 min Scan# 901

Delta R.T. -0.04 min

Lab File: VD061873.D

Acq: 18 Apr 2019 14:40

Instrument :

MSVOA_D

ClientSampleId :

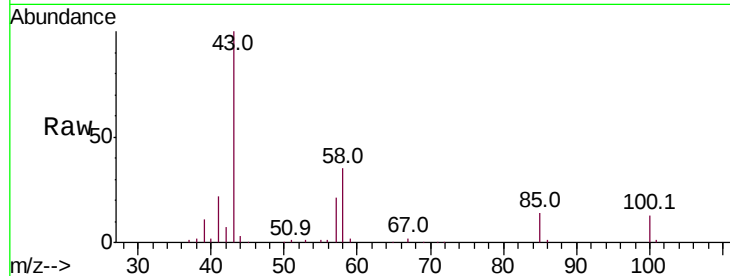
VD0418SBS01

Tot Ion: 43 Resp: 296655

Ion Ratio Lower Upper

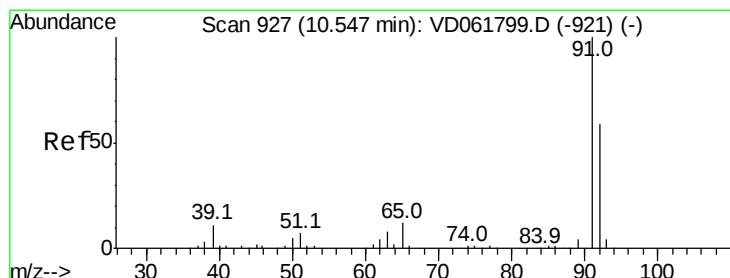
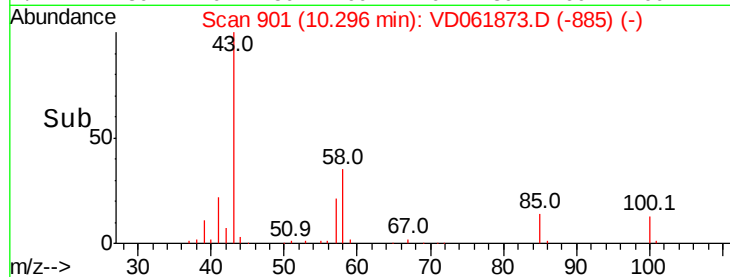
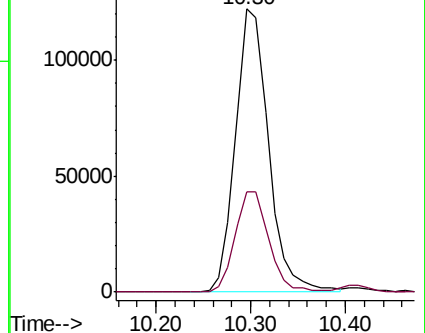
43 100

58 35.4 30.4 45.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 24.230 ug/l

RT: 10.51 min Scan# 923

Delta R.T. -0.03 min

Lab File: VD061873.D

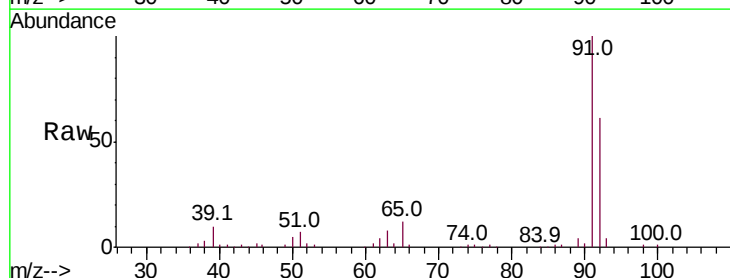
Acq: 18 Apr 2019 14:40

Tgt Ion: 92 Resp: 243017

Ion Ratio Lower Upper

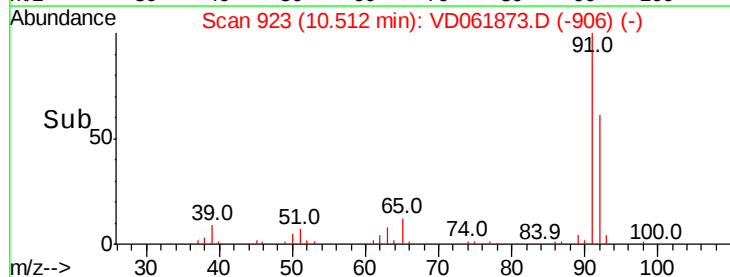
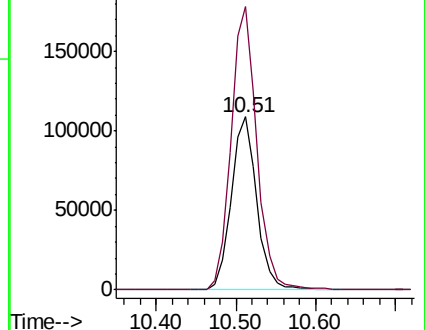
92 100

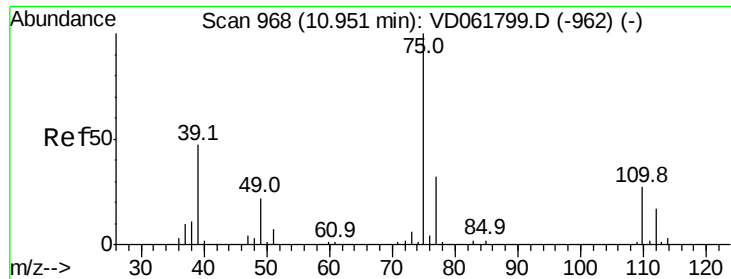
91 163.5 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

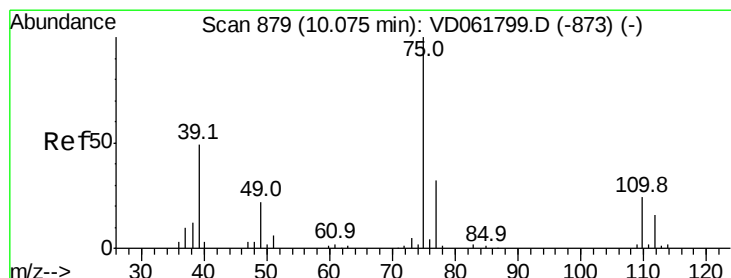
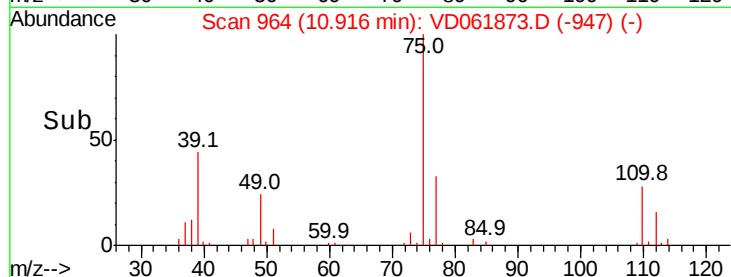
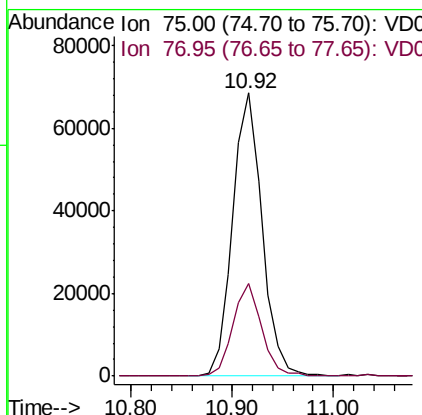
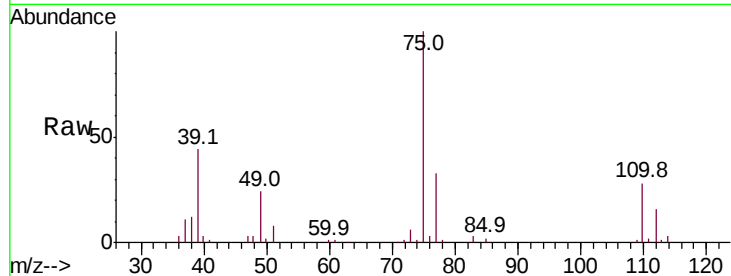




#53
 t-1,3-Dichloropropene
 Concen: 23.021 ug/l
 RT: 10.92 min Scan# 964
 Delta R.T. -0.03 min
 Lab File: VD061873.D
 Acq: 18 Apr 2019 14:40

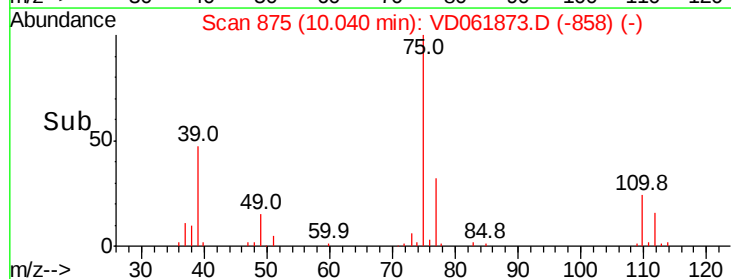
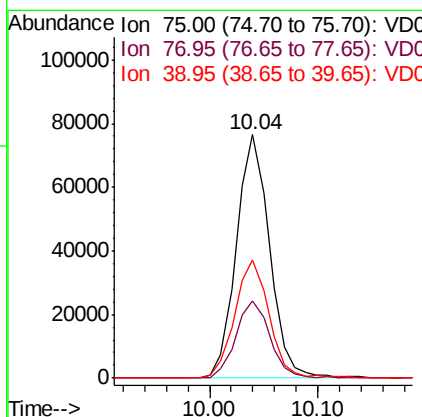
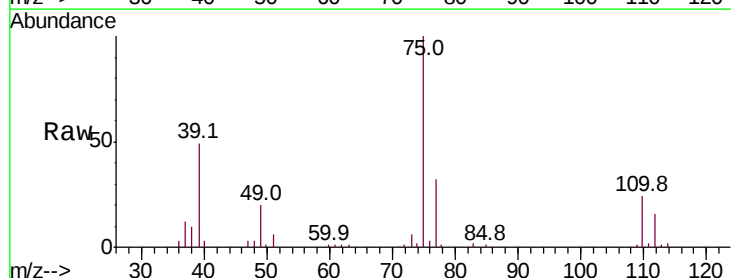
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0418SBS01

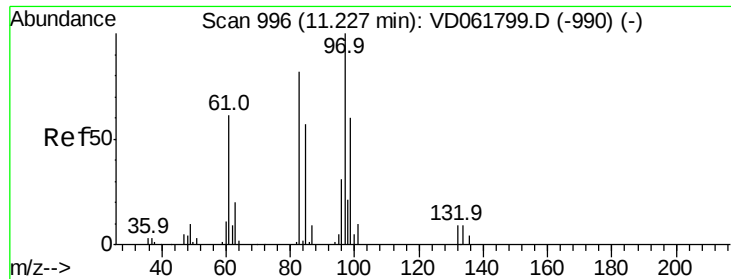
Tot Ion: 75 Resp: 139009
 Ion Ratio Lower Upper
 75 100
 77 32.8 25.8 38.8



#54
 cis-1,3-Dichloropropene
 Concen: 23.089 ug/l
 RT: 10.04 min Scan# 875
 Delta R.T. -0.03 min
 Lab File: VD061873.D
 Acq: 18 Apr 2019 14:40

Tgt Ion: 75 Resp: 163659
 Ion Ratio Lower Upper
 75 100
 77 31.7 25.5 38.3
 39 48.8 39.4 59.2

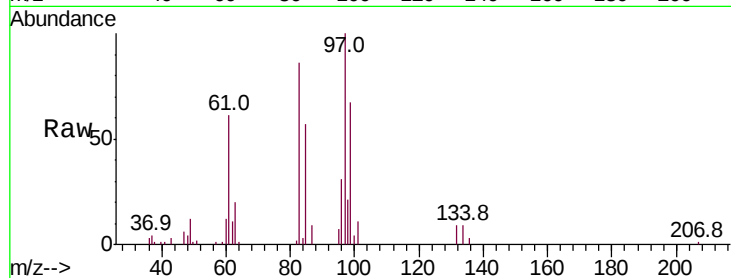




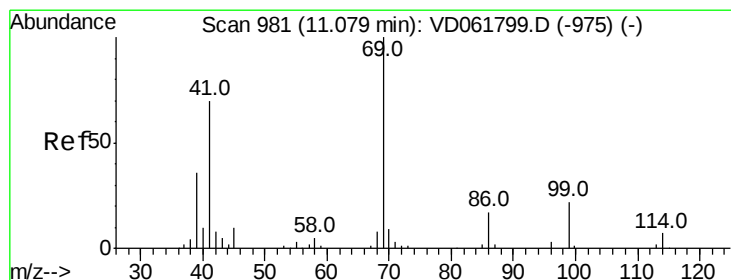
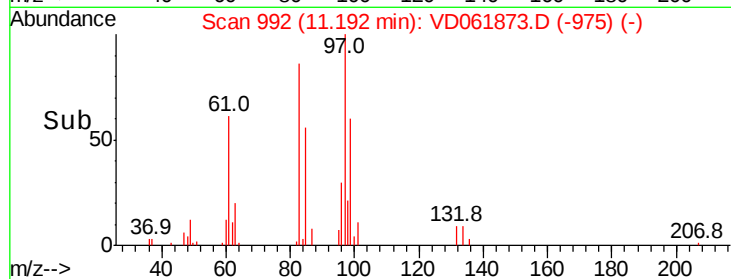
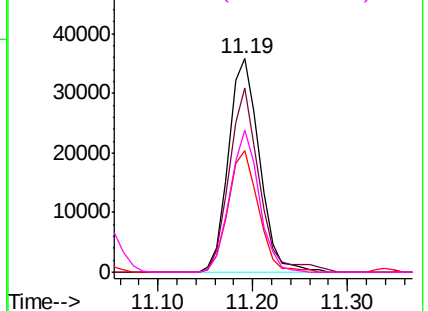
#55
 1,1,2-Trichloroethane
 Concen: 24.057 ug/l
 RT: 11.19 min Scan# 992
 Delta R.T. -0.03 min
 Lab File: VD061873.D
 Acq: 18 Apr 2019 14:40

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0418SBS01

Tot Ion: 97 Resp: 81303
 Ion Ratio Lower Upper
 97 100
 83 86.0 65.7 98.5
 85 57.2 45.6 68.4
 99 66.8 48.4 72.6

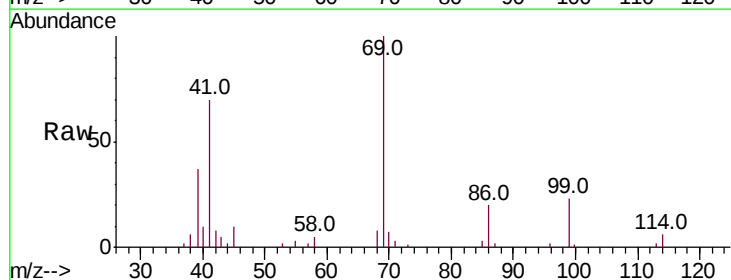


Abundance Ion 96.85 (96.55 to 97.55): VDC
 Ion 82.95 (82.65 to 83.65): VDC
 Ion 84.95 (84.65 to 85.65): VDC
 Ion 98.85 (98.55 to 99.55): VDC

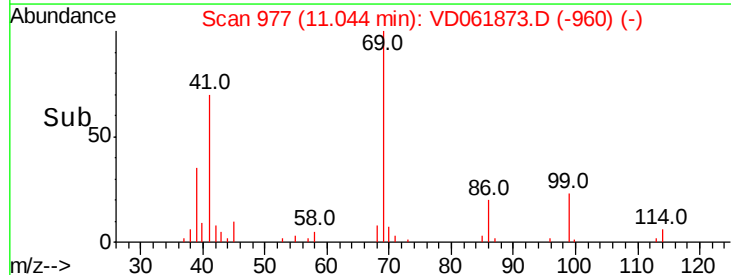
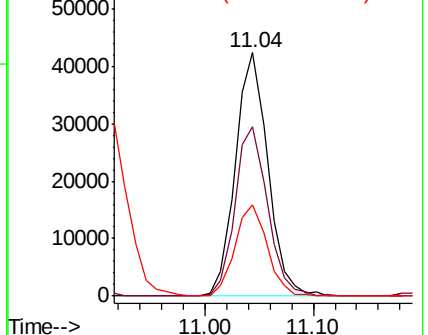


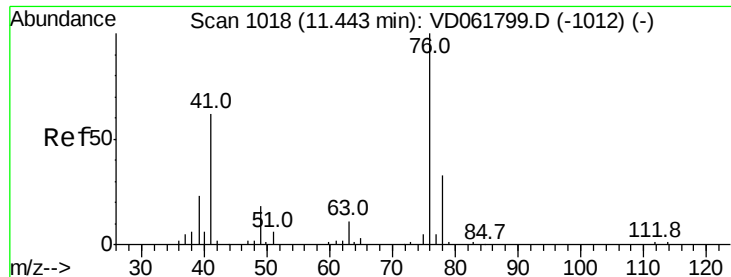
#56
 Ethyl methacrylate
 Concen: 23.780 ug/l
 RT: 11.04 min Scan# 977
 Delta R.T. -0.03 min
 Lab File: VD061873.D
 Acq: 18 Apr 2019 14:40

Tgt Ion: 69 Resp: 88204
 Ion Ratio Lower Upper
 69 100
 41 69.6 56.3 84.5
 39 37.5 29.4 44.2



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: 24.360 ug/l

RT: 11.41 min Scan# 1014

Delta R.T. -0.03 min

Lab File: VD061873.D

Acq: 18 Apr 2019 14:40

Instrument :

MSVOA_D

ClientSampleId :

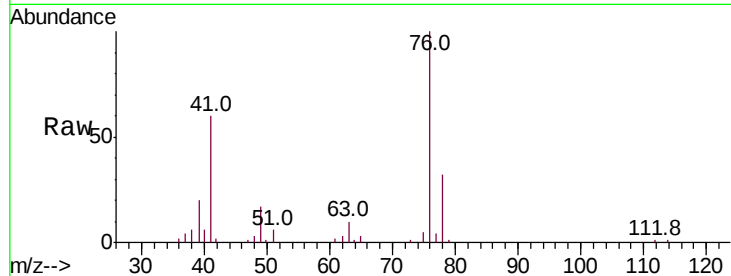
VD0418SBS01

Tot Ion: 76 Resp: 123767

Ion Ratio Lower Upper

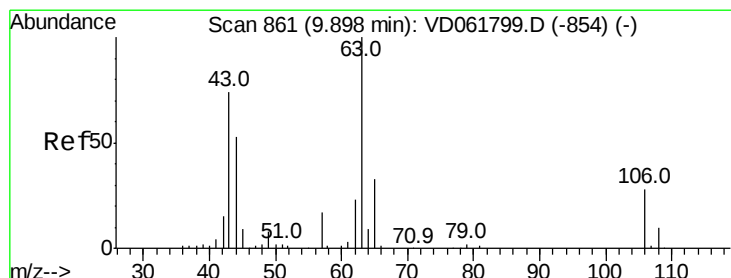
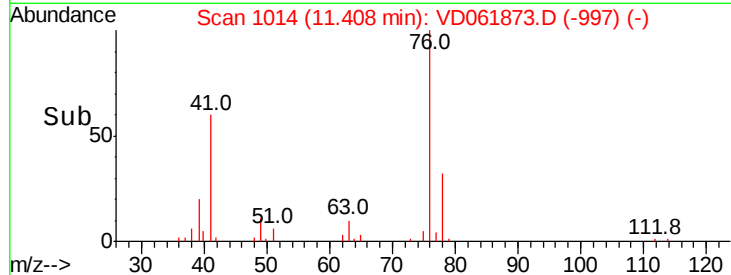
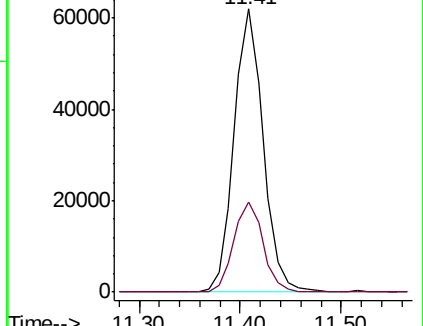
76 100

78 31.7 26.2 39.2



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: 122.628 ug/l

RT: 9.86 min Scan# 857

Delta R.T. -0.03 min

Lab File: VD061873.D

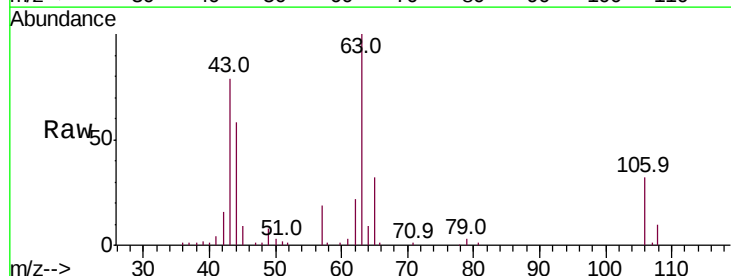
Acq: 18 Apr 2019 14:40

Tgt Ion: 63 Resp: 216348

Ion Ratio Lower Upper

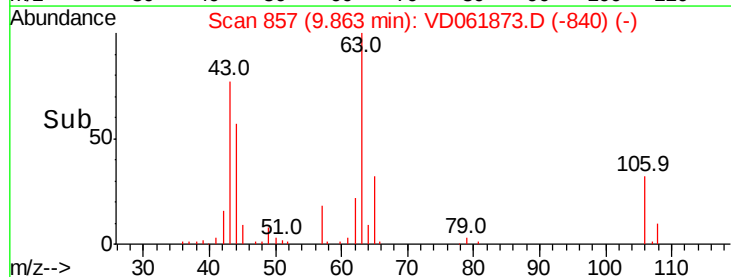
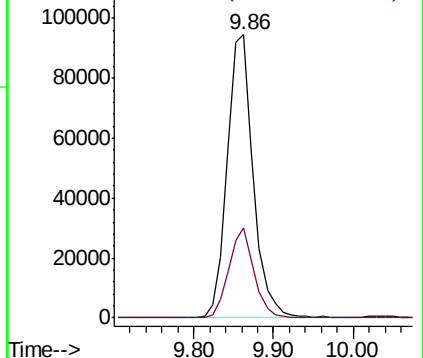
63 100

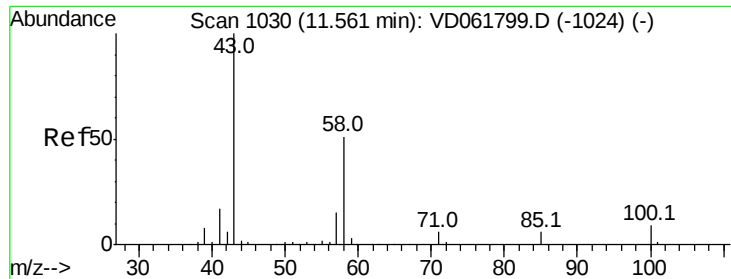
106 31.9 22.6 34.0



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

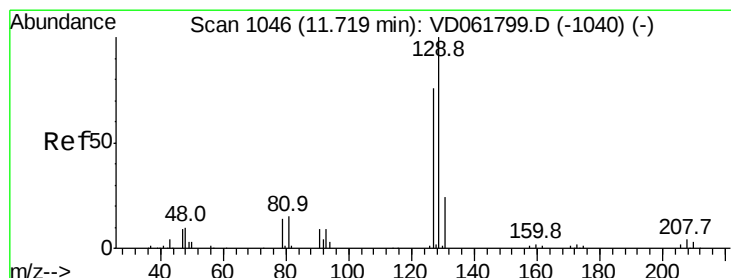
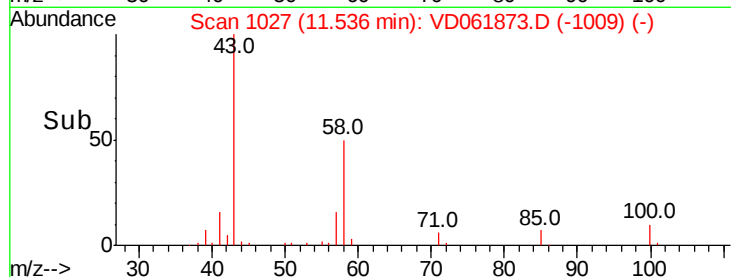
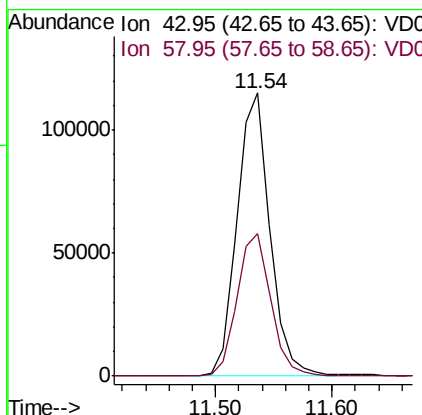
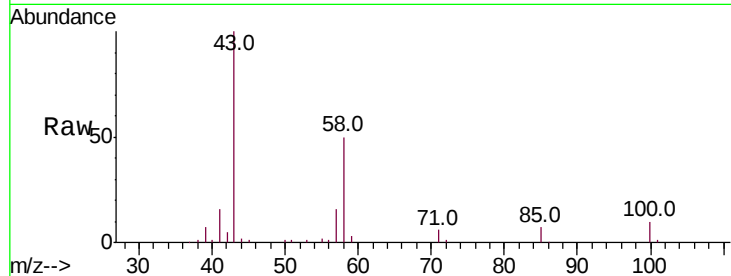




#59
2-Hexanone
Concen: 125.991 ug/l
RT: 11.54 min Scan# 1027
Delta R.T. -0.03 min
Lab File: VD061873.D
Acq: 18 Apr 2019 14:40

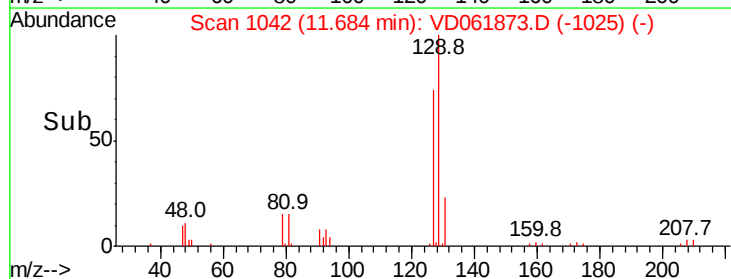
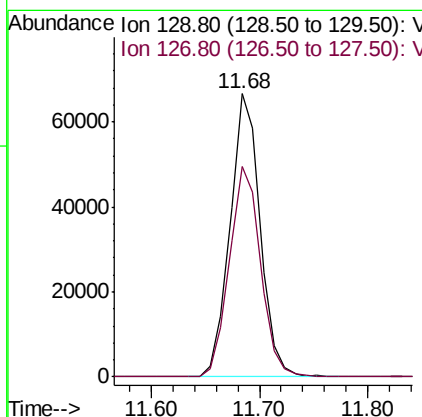
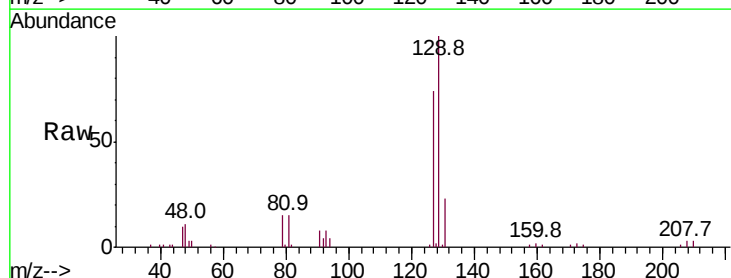
Instrument :
MSVOA_D
ClientSampleId :
VD0418SBS01

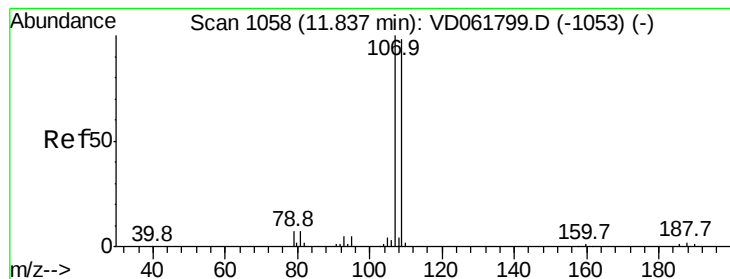
Tot Ion: 43 Resp: 224688
Ion Ratio Lower Upper
43 100
58 50.4 25.4 76.4



#60
Dibromochloromethane
Concen: 23.181 ug/l
RT: 11.68 min Scan# 1042
Delta R.T. -0.03 min
Lab File: VD061873.D
Acq: 18 Apr 2019 14:40

Tgt Ion: 129 Resp: 128188
Ion Ratio Lower Upper
129 100
127 74.5 38.0 113.9





#61

1,2-Dibromoethane

Concen: 22.421 ug/l

RT: 11.80 min Scan# 1054

Delta R.T. -0.03 min

Lab File: VD061873.D

Acq: 18 Apr 2019 14:40

Instrument :

MSVOA_D

ClientSampleId :

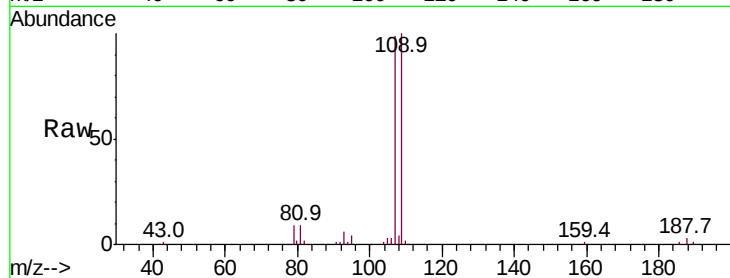
VD0418SBS01

Tot Ion:107 Resp: 93170

Ion Ratio Lower Upper

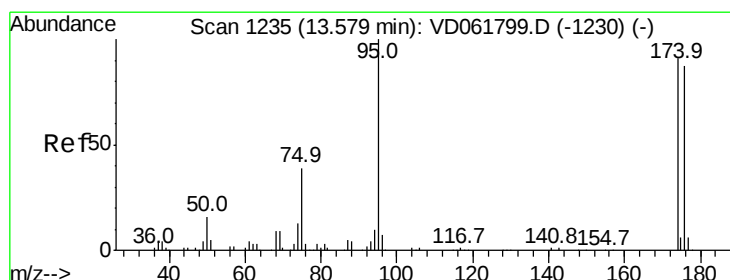
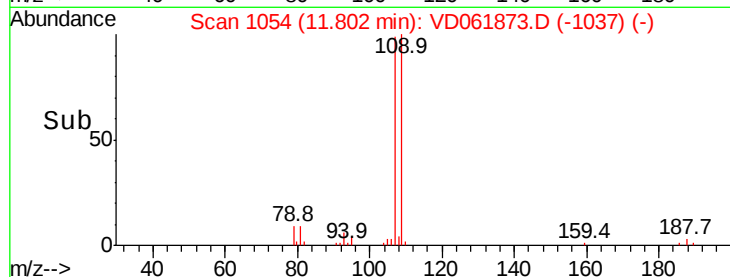
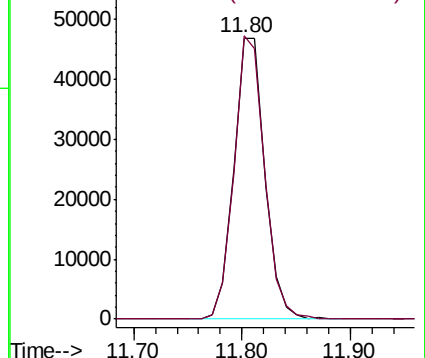
107 100

109 100.8 78.3 117.5



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V



#62

4-Bromofluorobenzene

Concen: 22.421 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.03 min

Lab File: VD061873.D

Acq: 18 Apr 2019 14:40

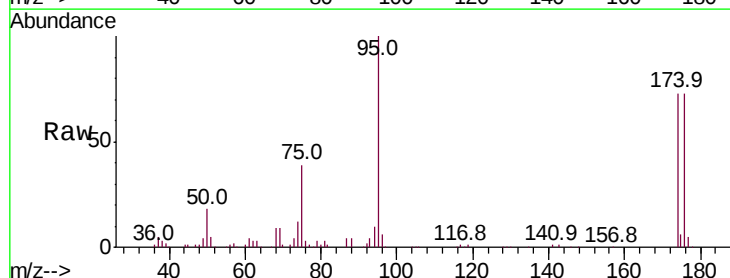
Tgt Ion: 95 Resp: 315673

Ion Ratio Lower Upper

95 100

174 73.3 0.0 181.8

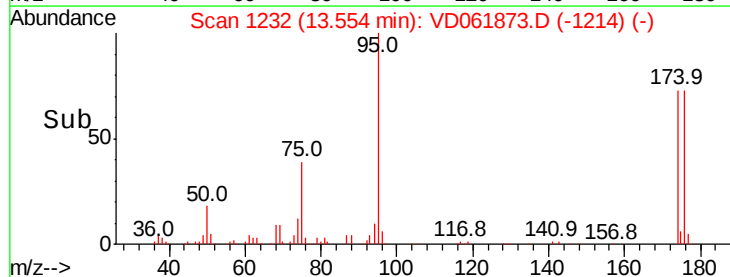
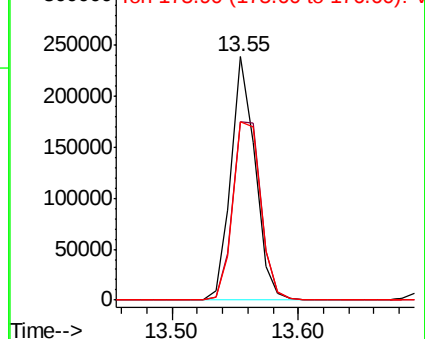
176 73.2 0.0 174.4

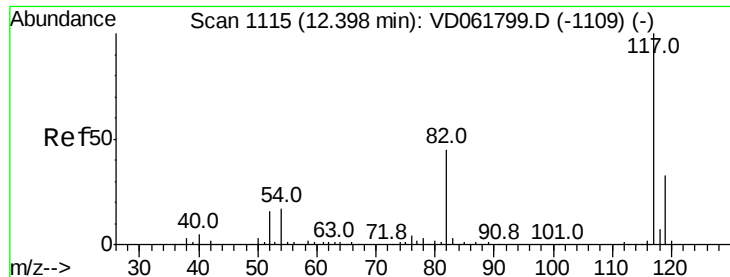


Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

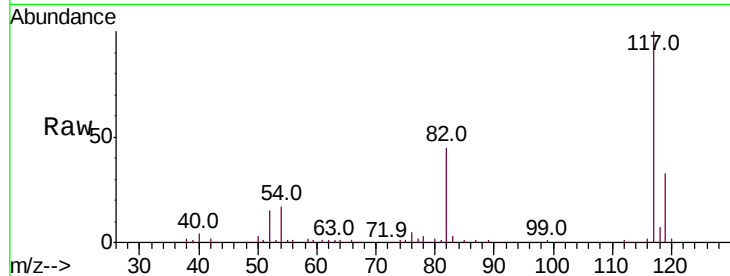




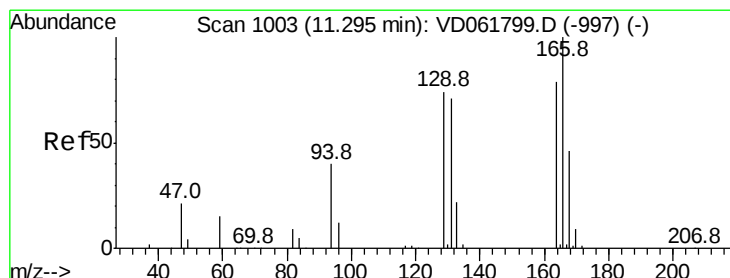
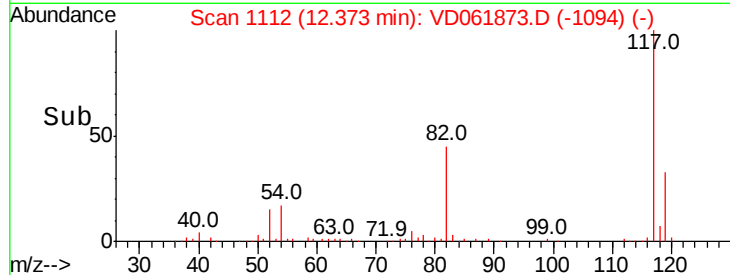
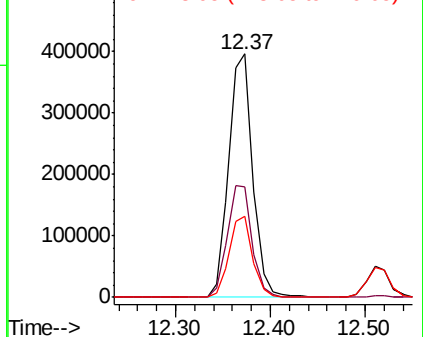
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.03 min
Lab File: VD061873.D
Acq: 18 Apr 2019 14:40

Instrument :
MSVOA_D
ClientSampleId :
VD0418SBS01

Tot Ion:117 Resp: 696989
Ion Ratio Lower Upper
117 100
82 45.5 36.2 54.2
119 33.2 26.2 39.4

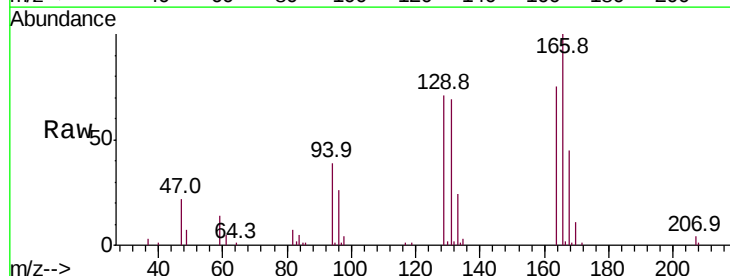


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

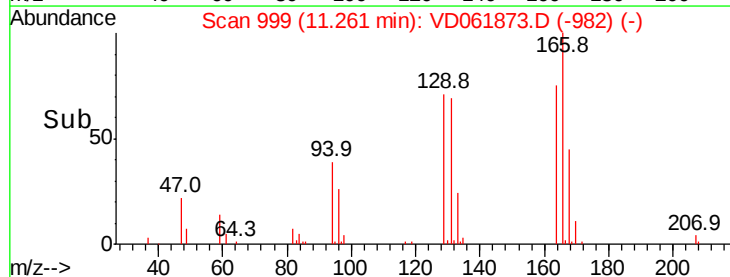
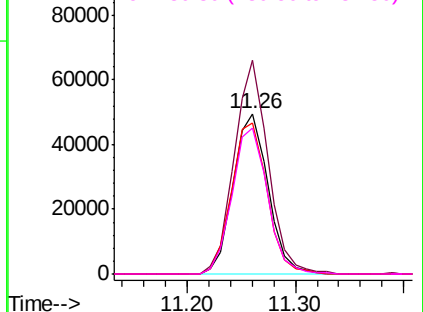


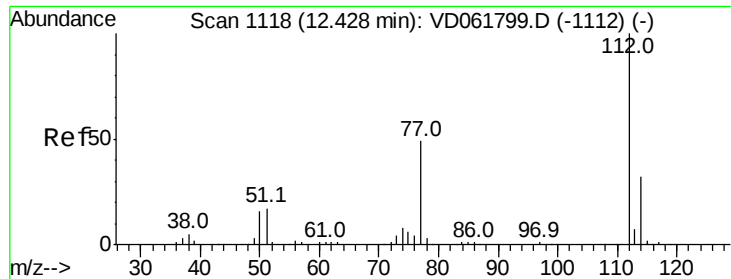
#64
Tetrachloroethene
Concen: 21.218 ug/l
RT: 11.26 min Scan# 999
Delta R.T. -0.03 min
Lab File: VD061873.D
Acq: 18 Apr 2019 14:40

Tgt Ion:164 Resp: 110908
Ion Ratio Lower Upper
164 100
166 133.3 101.5 152.3
129 94.7 74.6 112.0
131 91.3 72.6 108.8



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

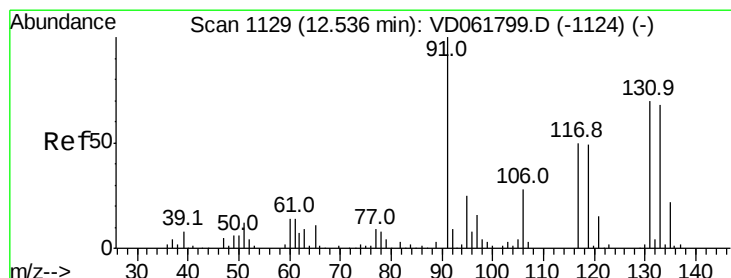
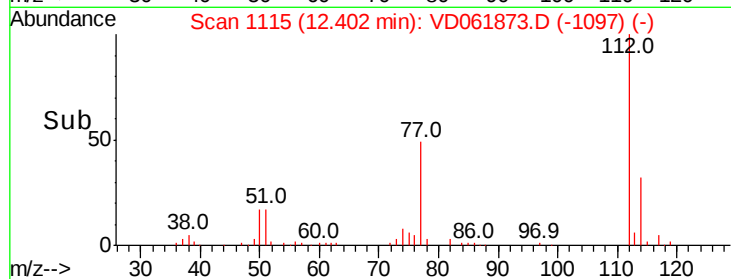
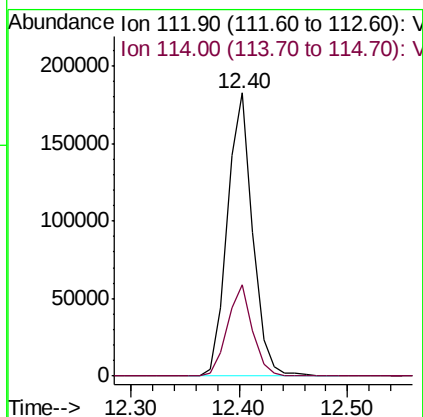
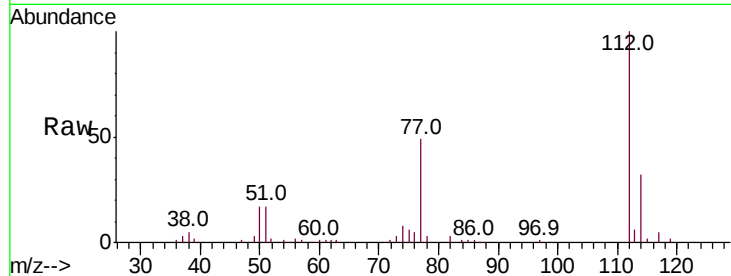




#65
Chlorobenzene
Concen: 22.759 ug/l
RT: 12.40 min Scan# 1115
Delta R.T. -0.03 min
Lab File: VD061873.D
Acq: 18 Apr 2019 14:40

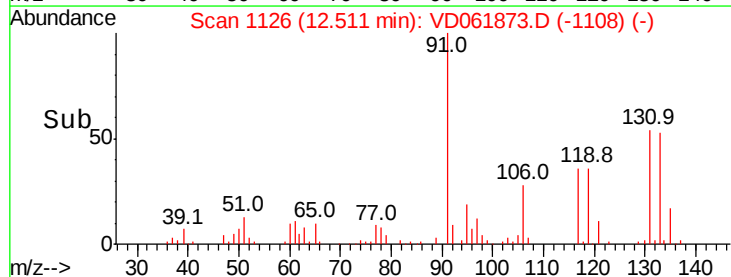
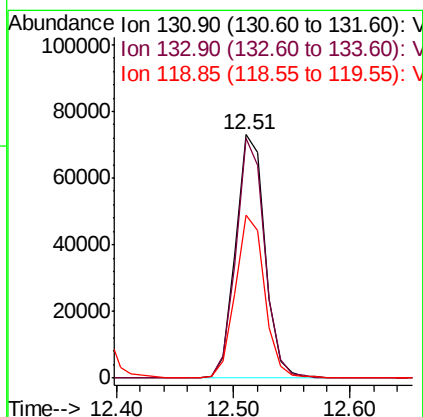
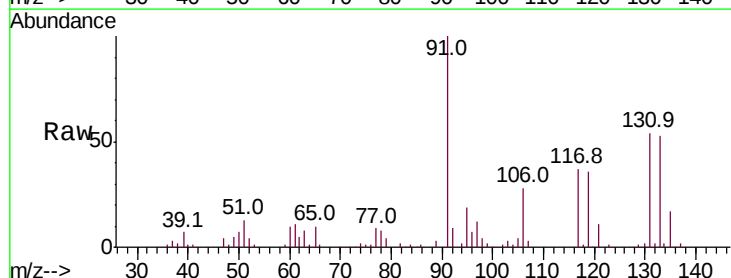
Instrument :
MSVOA_D
ClientSampleId :
VD0418SBS01

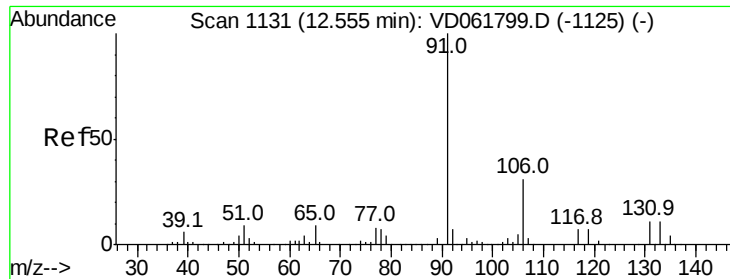
Tot Ion:112 Resp: 295421
Ion Ratio Lower Upper
112 100
114 32.2 25.8 38.8



#66
1,1,1,2-Tetrachloroethane
Concen: 23.433 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. -0.03 min
Lab File: VD061873.D
Acq: 18 Apr 2019 14:40

Tgt Ion:131 Resp: 127465
Ion Ratio Lower Upper
131 100
133 98.5 48.6 145.8
119 67.1 34.7 104.1

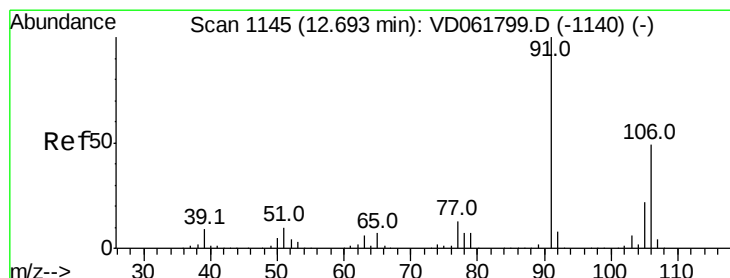
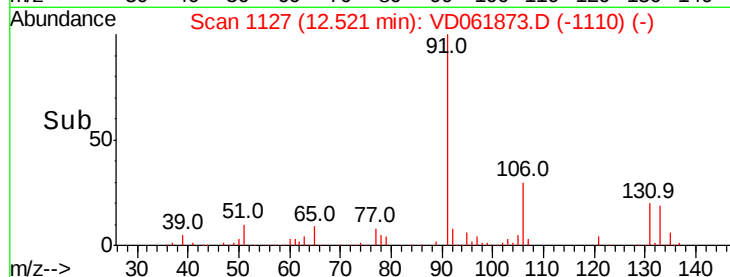
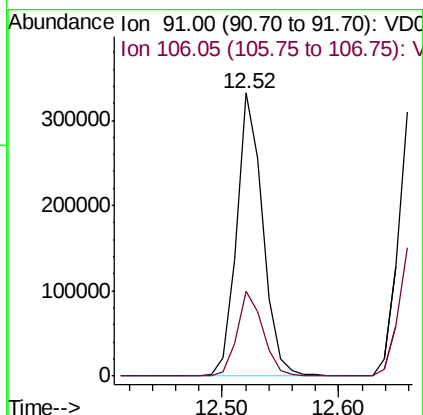
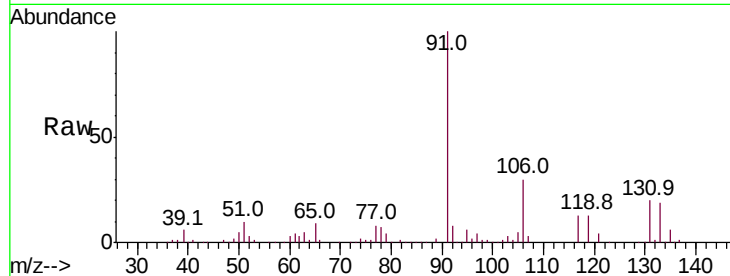




#67
Ethyl Benzene
Concen: 24.636 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. -0.03 min
Lab File: VD061873.D
Acq: 18 Apr 2019 14:40

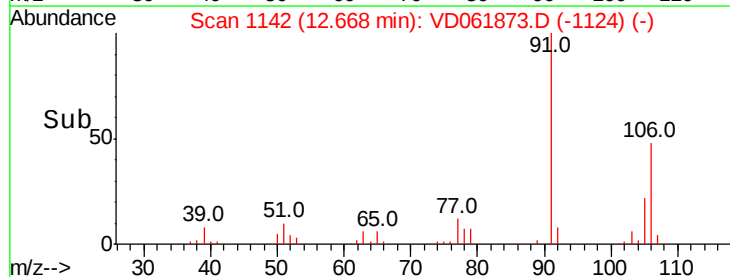
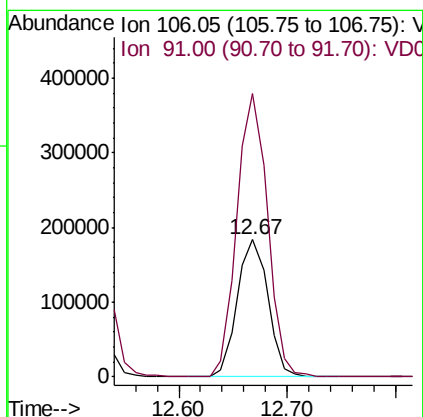
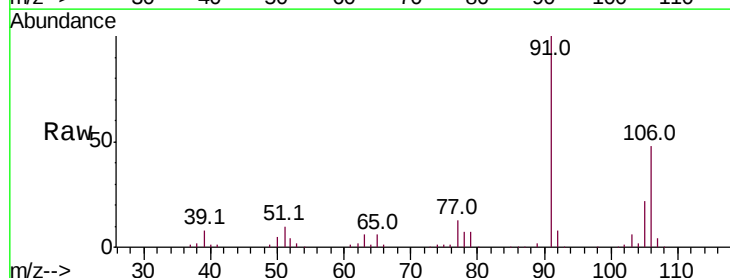
Instrument :
MSVOA_D
ClientSampleId :
VD0418SBS01

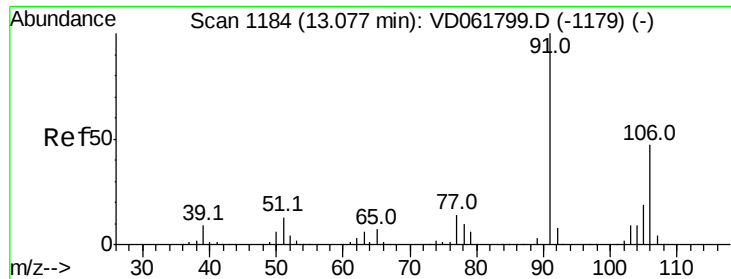
Tot Ion: 91 Resp: 512123
Ion Ratio Lower Upper
91 100
106 30.1 24.7 37.1



#68
m/p-Xylenes
Concen: 46.568 ug/l
RT: 12.67 min Scan# 1142
Delta R.T. -0.03 min
Lab File: VD061873.D
Acq: 18 Apr 2019 14:40

Tgt Ion: 106 Resp: 363613
Ion Ratio Lower Upper
106 100
91 206.8 164.0 246.0

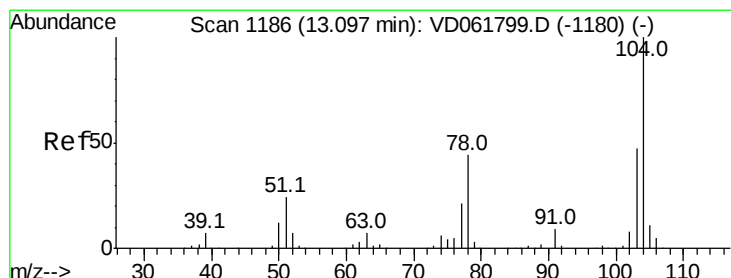
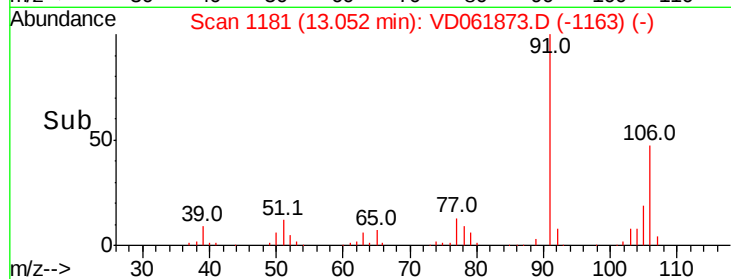
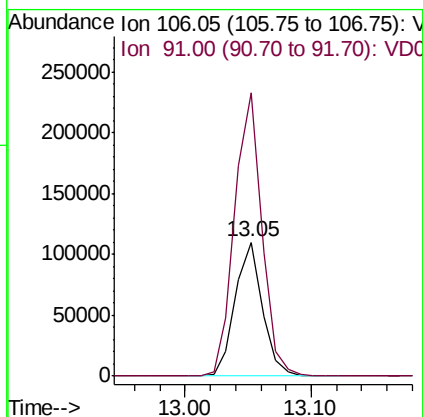
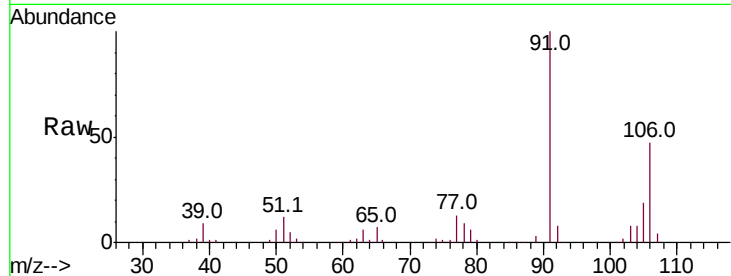




#69
o-Xylene
Concen: 22.359 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. -0.03 min
Lab File: VD061873.D
Acq: 18 Apr 2019 14:40

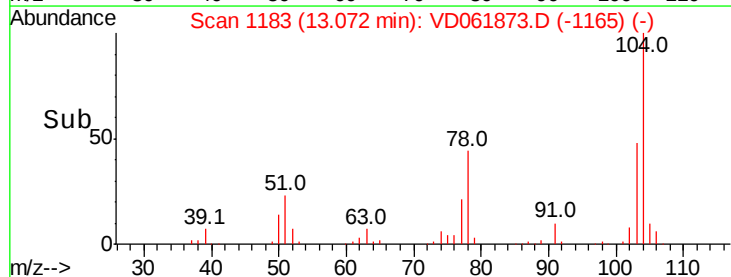
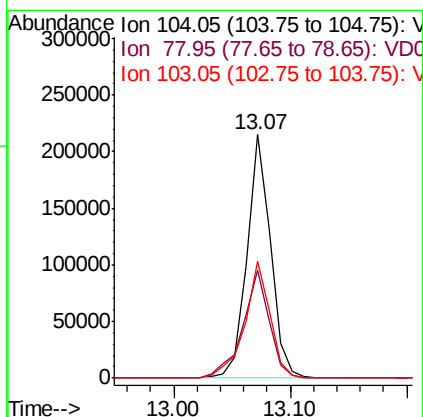
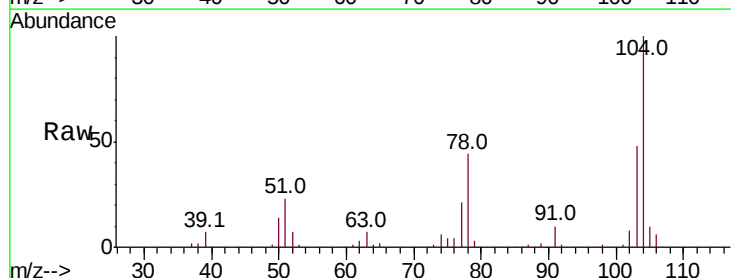
Instrument :
MSVOA_D
ClientSampleID :
VD0418SBS01

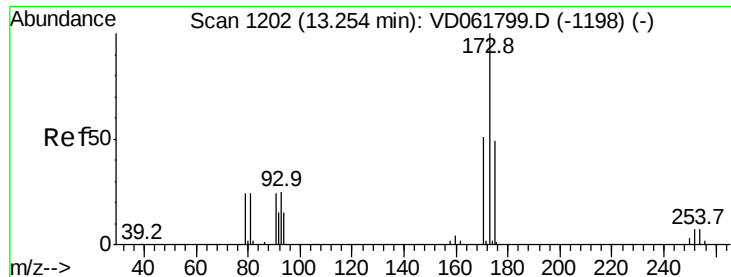
Tot Ion:106 Resp: 164098
Ion Ratio Lower Upper
106 100
91 211.6 106.7 319.9



#70
Styrene
Concen: 23.809 ug/l
RT: 13.07 min Scan# 1183
Delta R.T. -0.03 min
Lab File: VD061873.D
Acq: 18 Apr 2019 14:40

Tgt Ion:104 Resp: 300699
Ion Ratio Lower Upper
104 100
78 44.2 35.4 53.2
103 47.9 37.5 56.3

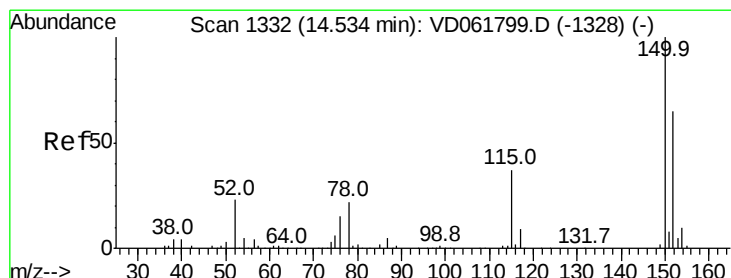
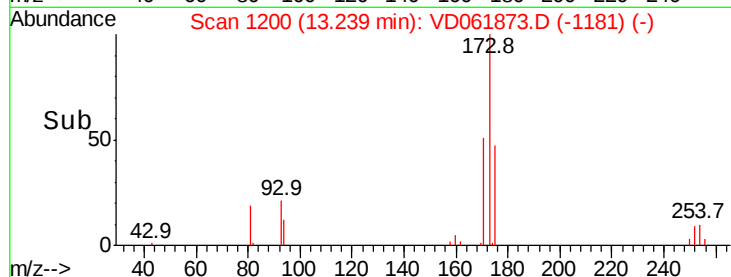
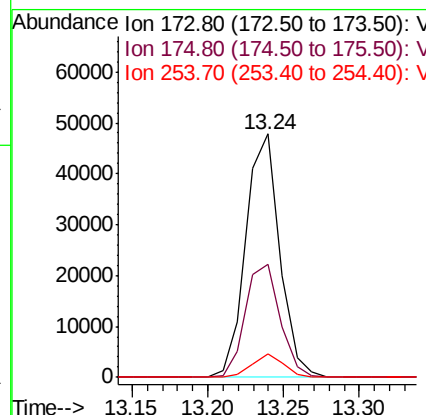
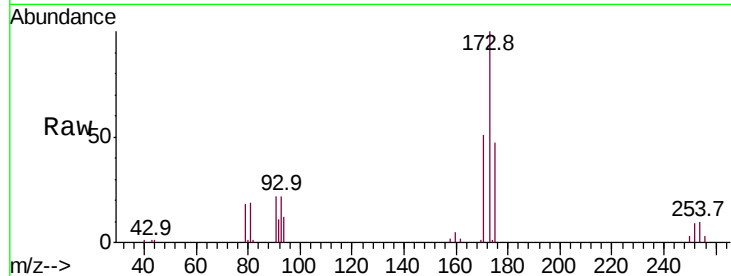




#71
Bromoform
Concen: 23.039 ug/l
RT: 13.24 min Scan# 1200
Delta R.T. -0.02 min
Lab File: VD061873.D
Acq: 18 Apr 2019 14:40

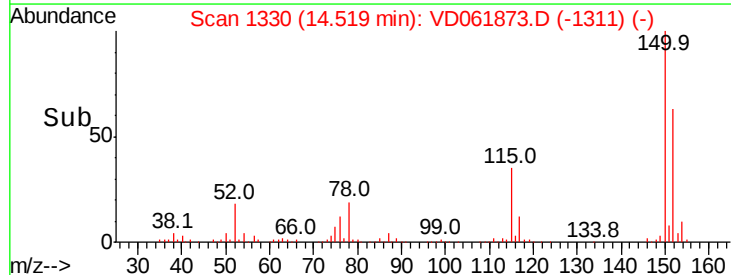
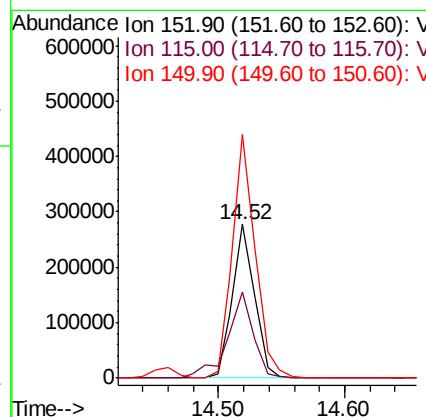
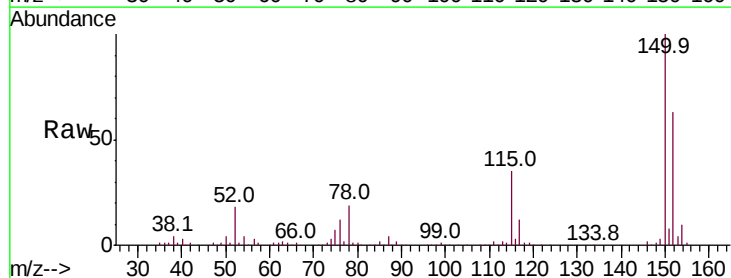
Instrument :
MSVOA_D
ClientSampleId :
VD0418SBS01

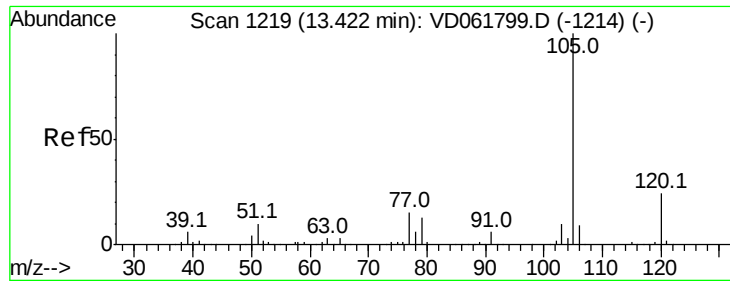
Tot Ion:173 Resp: 74390
Ion Ratio Lower Upper
173 100
175 46.7 24.4 73.4
254 9.8 5.4 8.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.02 min
Lab File: VD061873.D
Acq: 18 Apr 2019 14:40

Tgt Ion:152 Resp: 336928
Ion Ratio Lower Upper
152 100
115 56.1 30.9 92.7
150 158.4 0.0 314.8





#73

Isopropylbenzene

Concen: 22.883 ug/l

RT: 13.41 min Scan# 1217

Delta R.T. -0.02 min

Lab File: VD061873.D

Acq: 18 Apr 2019 14:40

Instrument :

MSVOA_D

ClientSampleId :

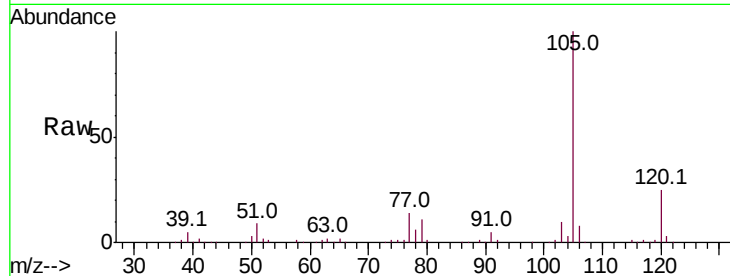
VD0418SBS01

Tot Ion:105 Resp: 500025

Ion Ratio Lower Upper

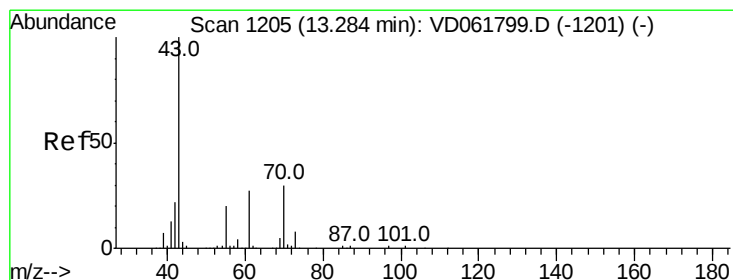
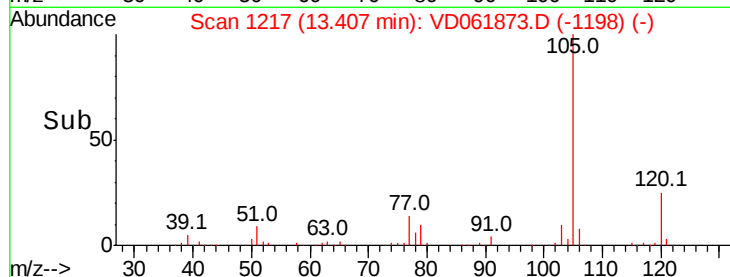
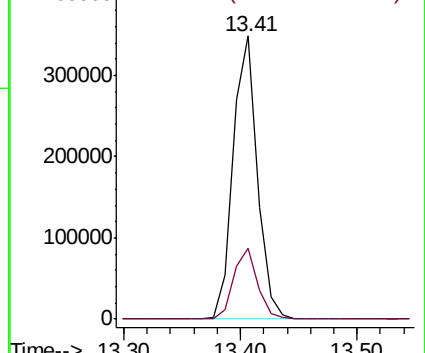
105 100

120 25.1 12.0 36.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 21.581 ug/l

RT: 13.27 min Scan# 1203

Delta R.T. -0.02 min

Lab File: VD061873.D

Acq: 18 Apr 2019 14:40

Tgt Ion: 43 Resp: 126803

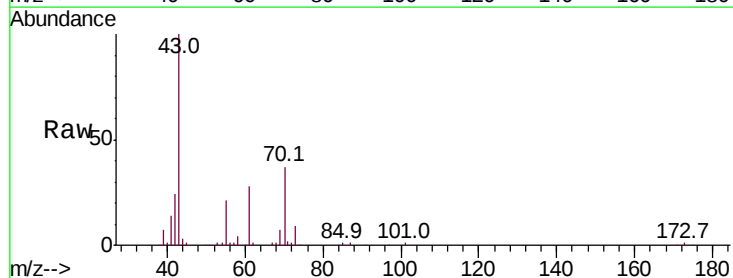
Ion Ratio Lower Upper

43 100

70 36.5 24.2 36.4#

55 20.9 16.0 24.0

61 28.1 21.6 32.4

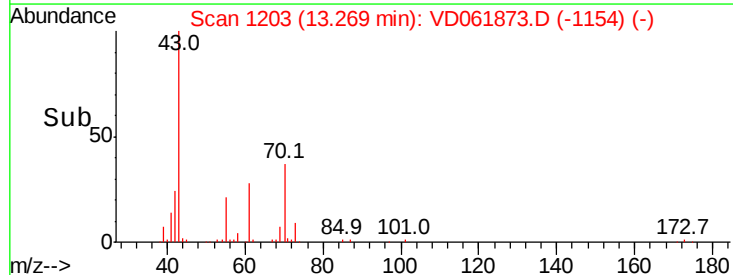
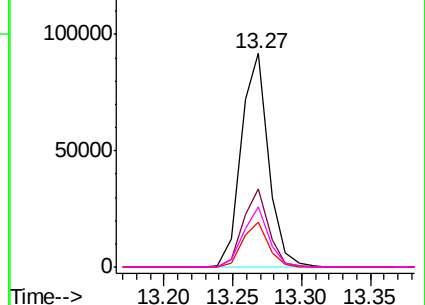


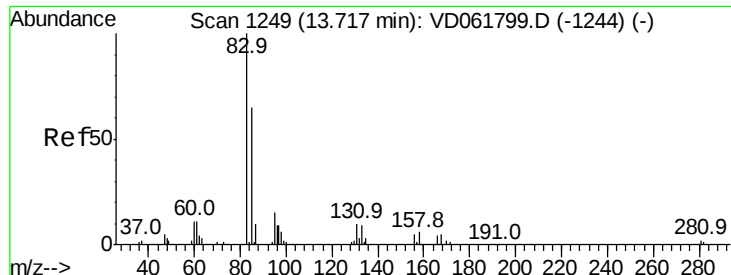
Abundance Ion 42.95 (42.65 to 43.65): V

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





#75

1,1,2,2-Tetrachloroethane

Concen: 22.601 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. -0.02 min

Lab File: VD061873.D

Acq: 18 Apr 2019 14:40

Instrument :

MSVOA_D

ClientSampleId :

VD0418SBS01

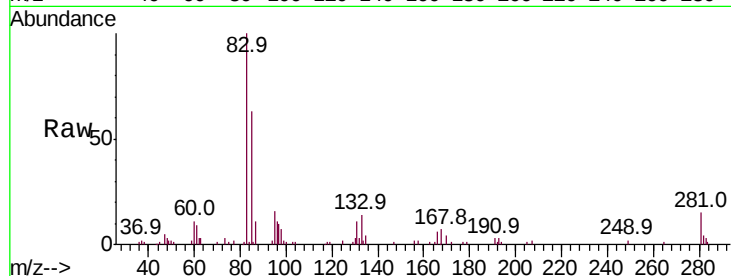
Tot Ion: 83 Resp: 97618

Ion Ratio Lower Upper

83 100

131 10.7 5.0 14.9

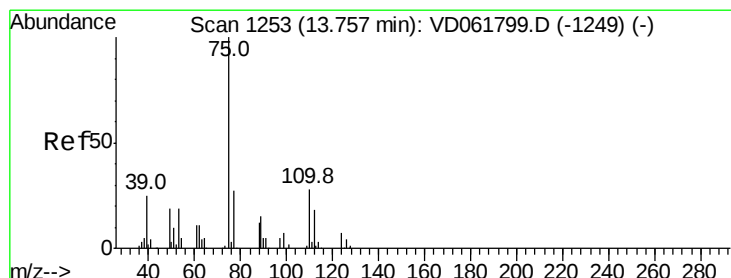
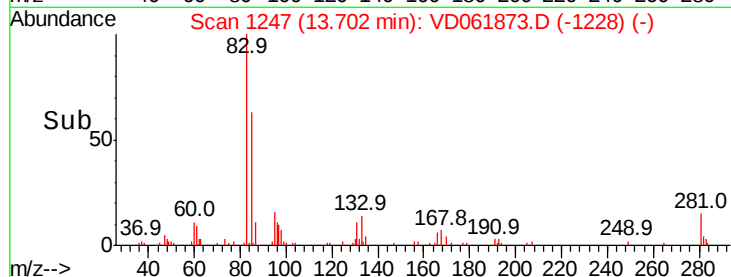
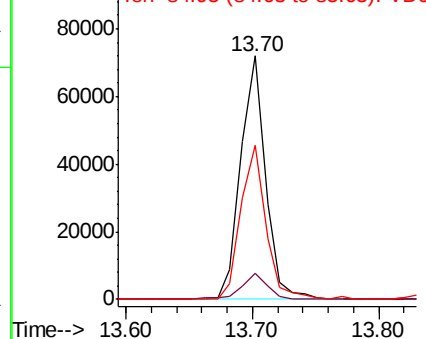
85 63.5 32.6 97.7



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: 22.661 ug/l

RT: 13.73 min Scan# 1250

Delta R.T. -0.03 min

Lab File: VD061873.D

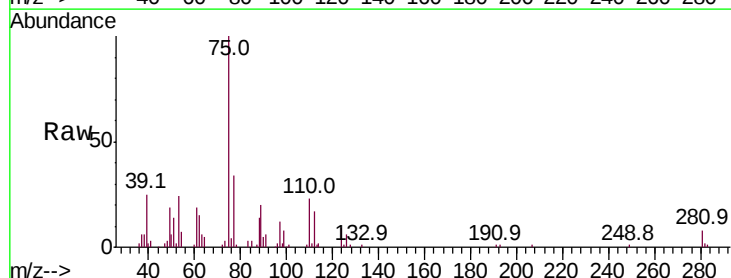
Acq: 18 Apr 2019 14:40

Tgt Ion: 75 Resp: 100270

Ion Ratio Lower Upper

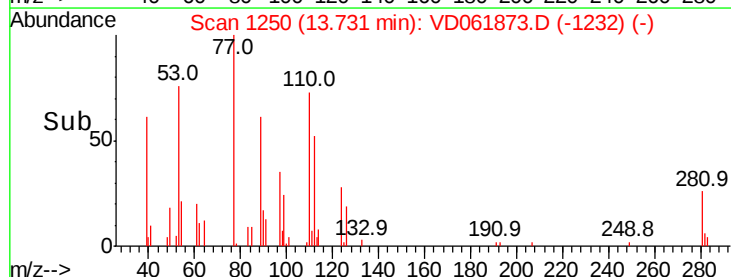
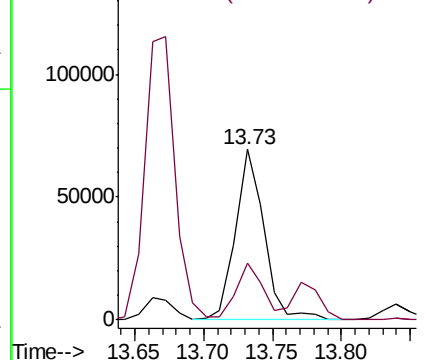
75 100

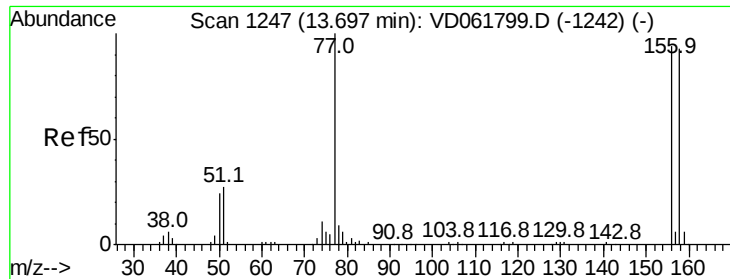
77 33.7 16.4 49.4



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 22.620 ug/l

RT: 13.67 min Scan# 1244

Delta R.T. -0.03 min

Lab File: VD061873.D

Acq: 18 Apr 2019 14:40

Instrument :

MSVOA_D

ClientSampleId :

VD0418SBS01

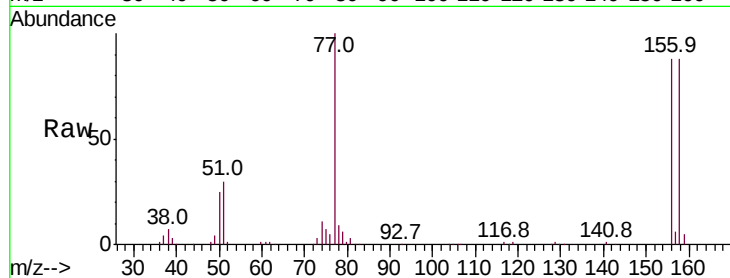
Tot Ion:156 Resp: 140400

Ion Ratio Lower Upper

156 100

77 114.1 53.1 159.4

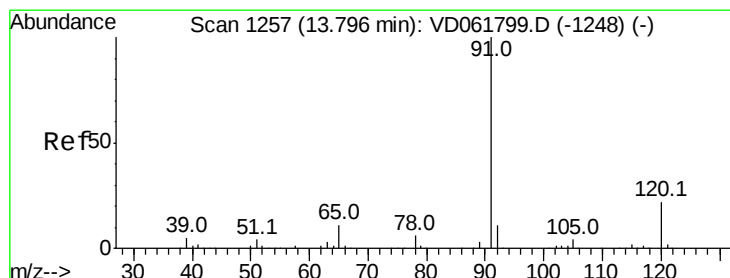
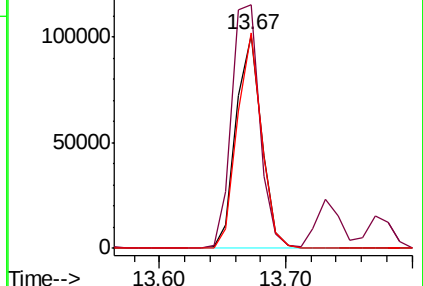
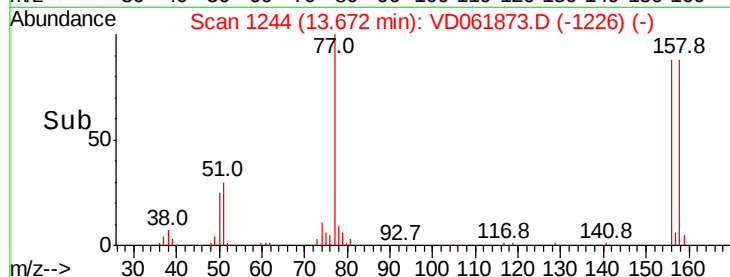
158 100.9 49.4 148.0



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: 23.600 ug/l

RT: 13.77 min Scan# 1254

Delta R.T. -0.03 min

Lab File: VD061873.D

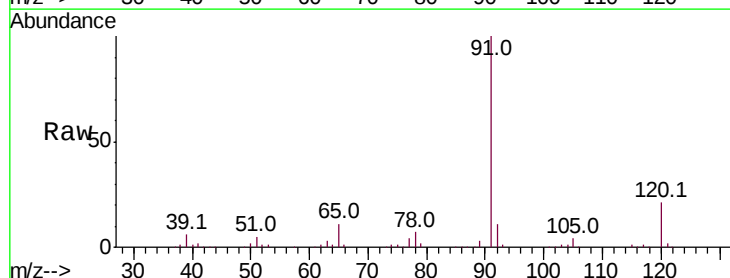
Acq: 18 Apr 2019 14:40

Tgt Ion: 91 Resp: 595795

Ion Ratio Lower Upper

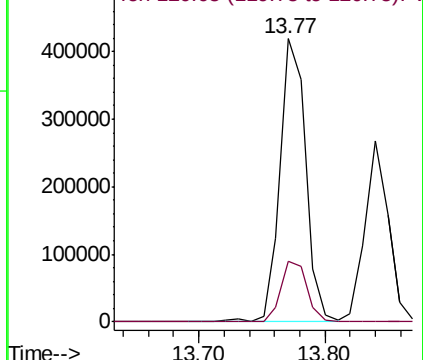
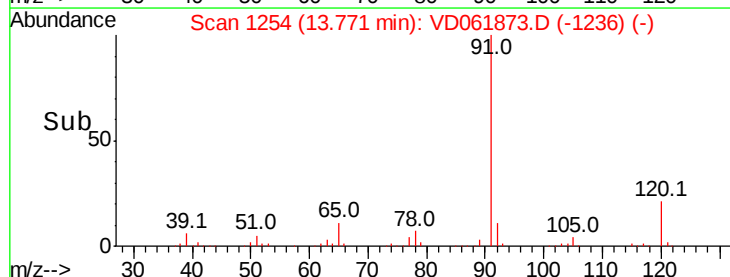
91 100

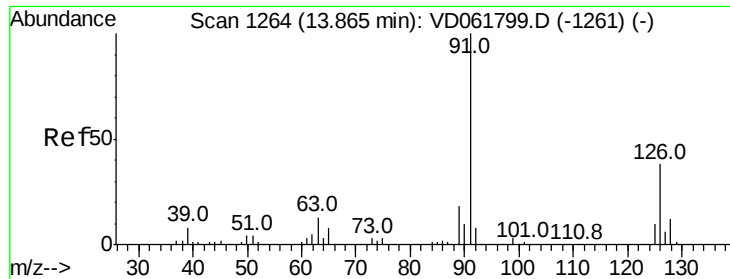
120 21.3 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

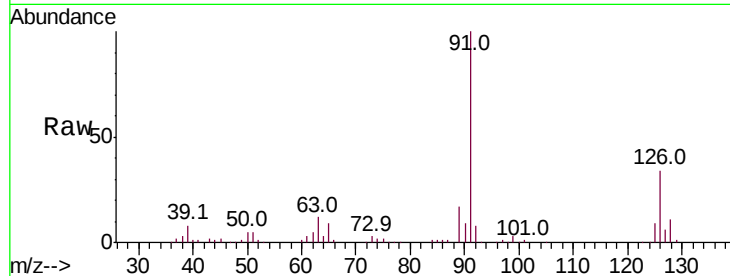




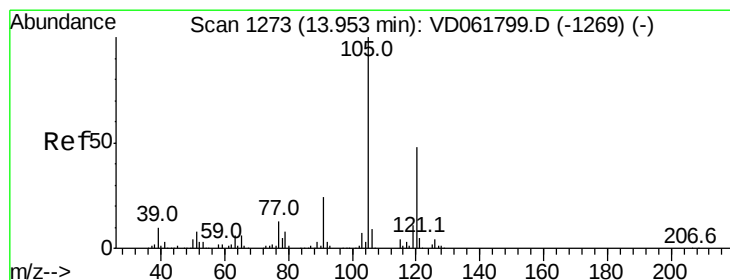
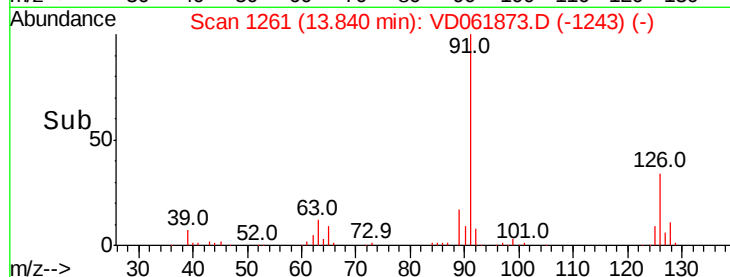
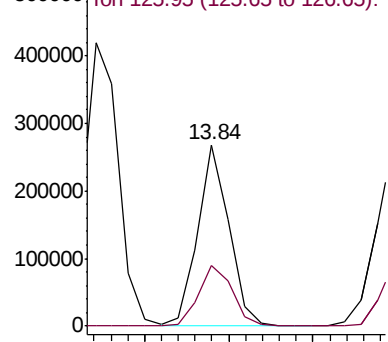
#79
 2-Chlorotoluene
 Concen: 23.515 ug/l
 RT: 13.84 min Scan# 1261
 Delta R.T. -0.03 min
 Lab File: VD061873.D
 Acq: 18 Apr 2019 14:40

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0418SBS01

Tot Ion: 91 Resp: 346788
 Ion Ratio Lower Upper
 91 100
 126 33.7 18.6 55.8

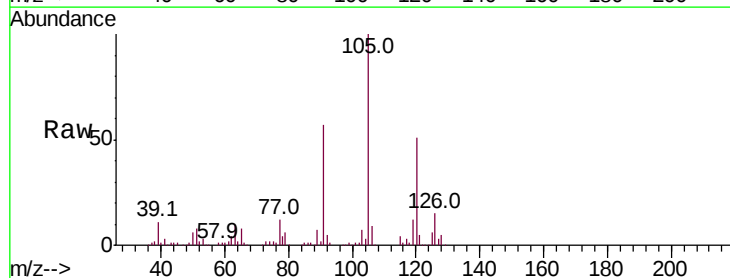


Abundance Ion 91.00 (90.70 to 91.70): V
 Ion 125.95 (125.65 to 126.65): V

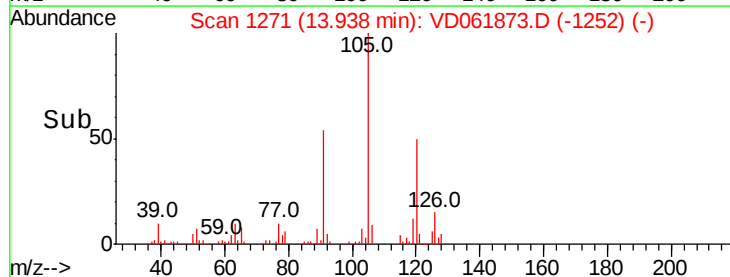
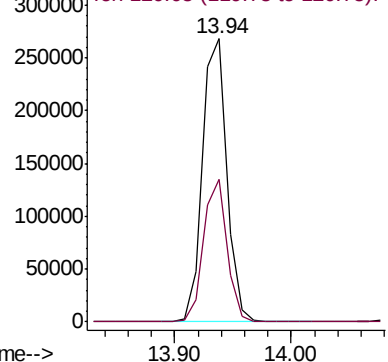


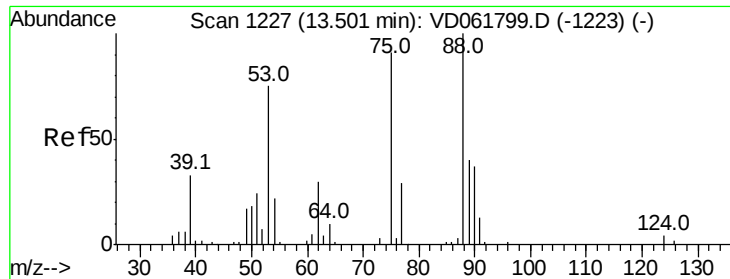
#80
 1,3,5-Trimethylbenzene
 Concen: 22.452 ug/l
 RT: 13.94 min Scan# 1271
 Delta R.T. -0.02 min
 Lab File: VD061873.D
 Acq: 18 Apr 2019 14:40

Tgt Ion:105 Resp: 389271
 Ion Ratio Lower Upper
 105 100
 120 50.5 24.0 72.0



Abundance Ion 105.05 (104.75 to 105.75): V
 Ion 120.05 (119.75 to 120.75): V





#81

trans-1,4-Dichloro-2-butene

Concen: 21.109 ug/l

RT: 13.48 min Scan# 1224

Delta R.T. -0.02 min

Lab File: VD061873.D

Acq: 18 Apr 2019 14:40

Instrument :

MSVOA_D

ClientSampleId :

VD0418SBS01

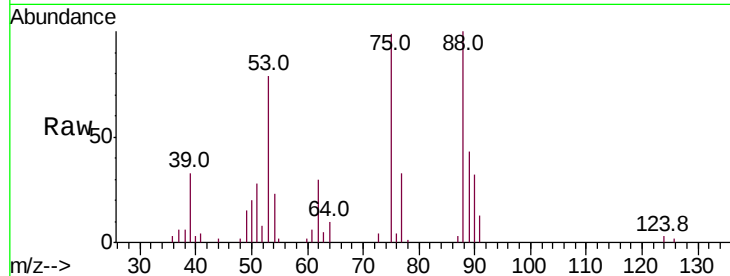
Tot Ion: 75 Resp: 27324

Ion Ratio Lower Upper

75 100

53 80.3 65.8 98.8

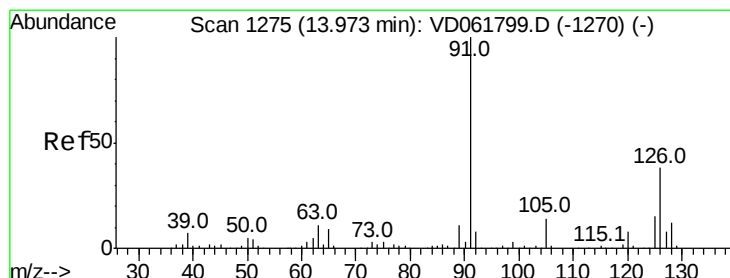
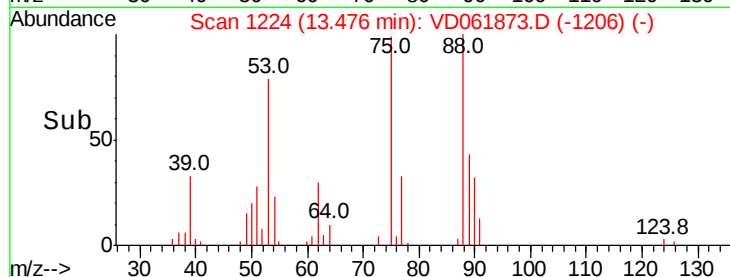
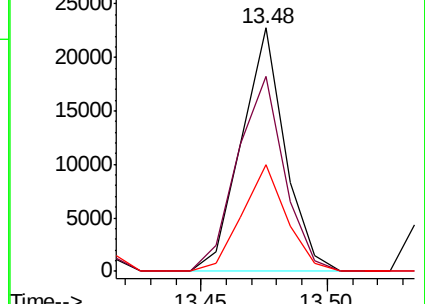
89 43.8 35.0 52.6



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



#82

4-Chlorotoluene

Concen: 21.673 ug/l

RT: 13.95 min Scan# 1272

Delta R.T. -0.03 min

Lab File: VD061873.D

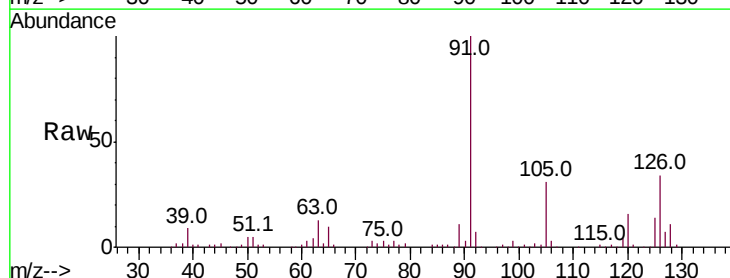
Acq: 18 Apr 2019 14:40

Tgt Ion: 91 Resp: 365851

Ion Ratio Lower Upper

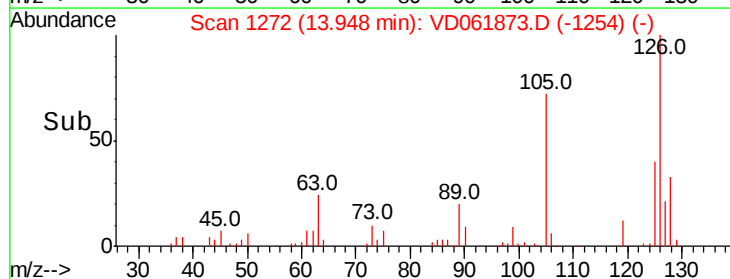
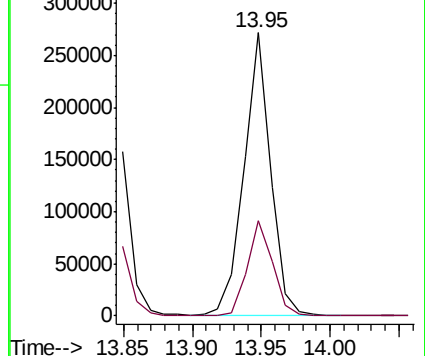
91 100

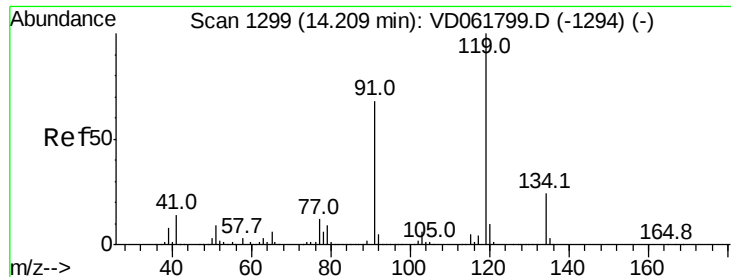
126 33.8 19.1 57.5



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V





#83

tert-Butylbenzene

Concen: 21.761 ug/l

RT: 14.19 min Scan# 1297

Delta R.T. -0.02 min

Lab File: VD061873.D

Acq: 18 Apr 2019 14:40

Instrument :

MSVOA_D

ClientSampleId :

VD0418SBS01

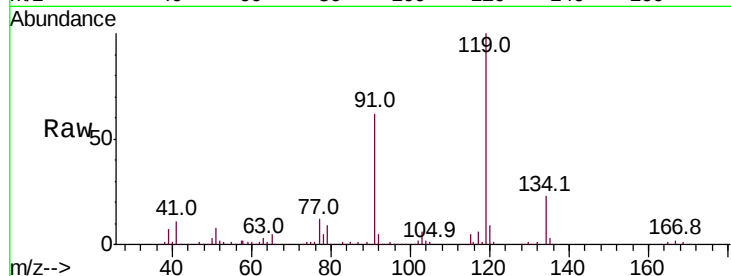
Tot Ion:119 Resp: 443016

Ion Ratio Lower Upper

119 100

91 62.1 34.2 102.6

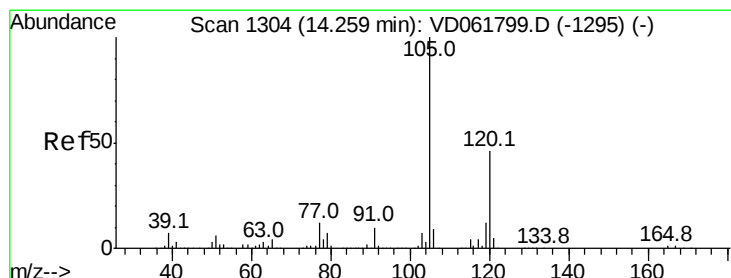
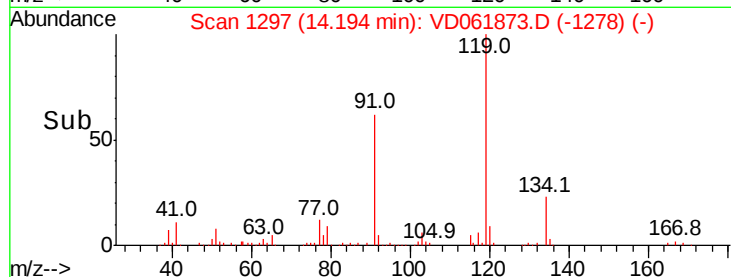
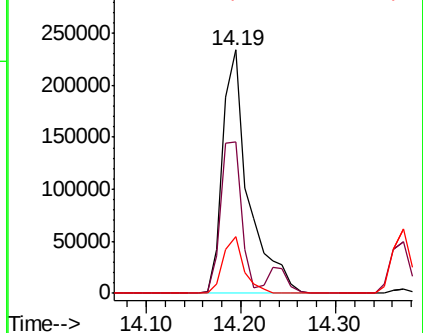
134 23.2 12.0 36.0



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 21.505 ug/l

RT: 14.24 min Scan# 1302

Delta R.T. -0.02 min

Lab File: VD061873.D

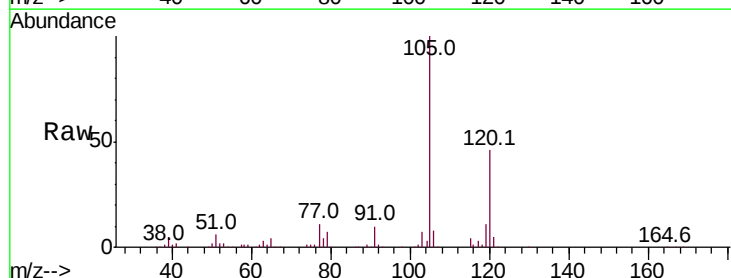
Acq: 18 Apr 2019 14:40

Tgt Ion:105 Resp: 374794

Ion Ratio Lower Upper

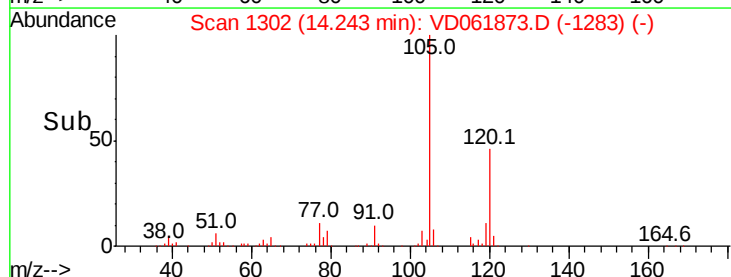
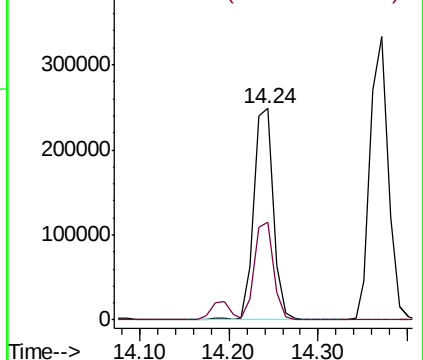
105 100

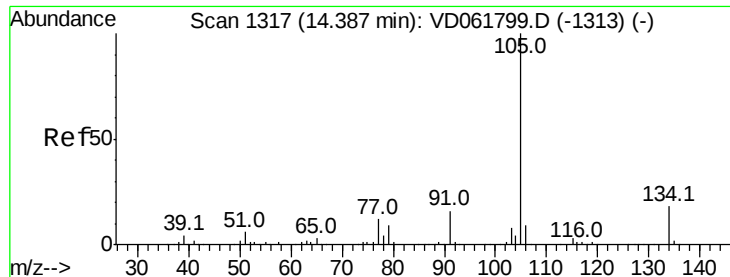
120 46.0 23.1 69.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

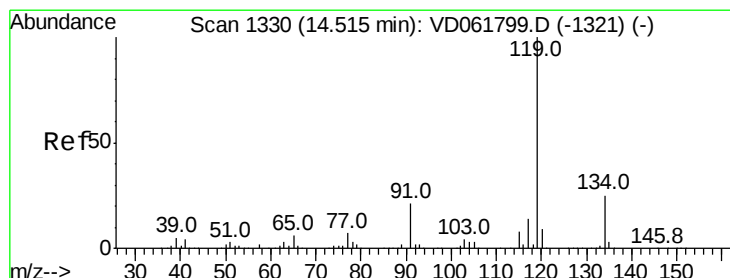
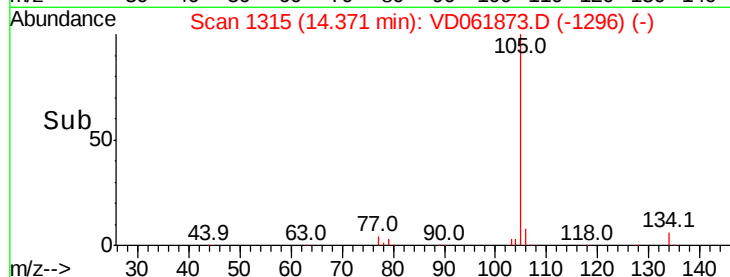
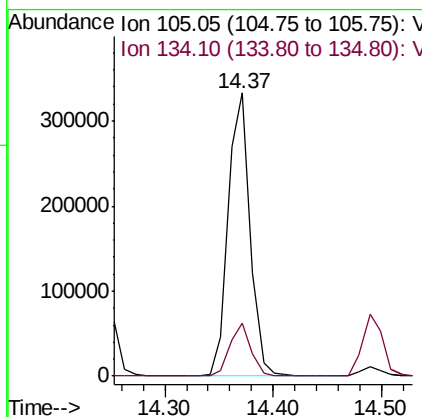
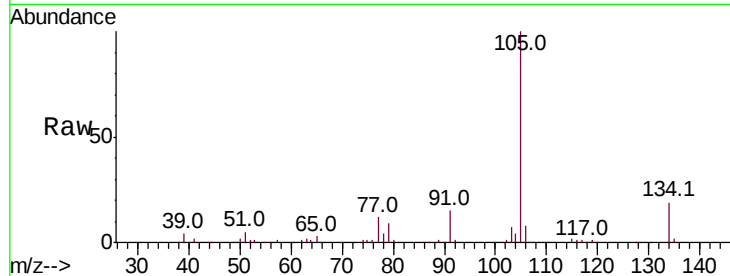




#85
 sec-Butylbenzene
 Concen: 22.285 ug/l
 RT: 14.37 min Scan# 1315
 Delta R.T. -0.02 min
 Lab File: VD061873.D
 Acq: 18 Apr 2019 14:40

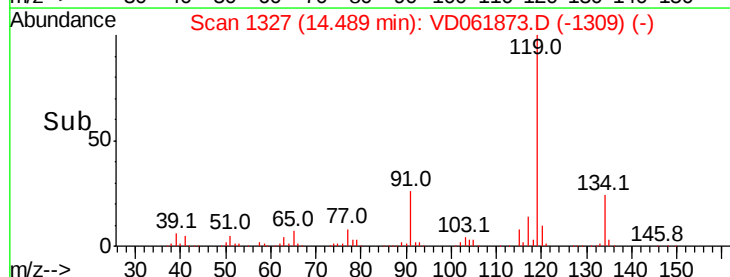
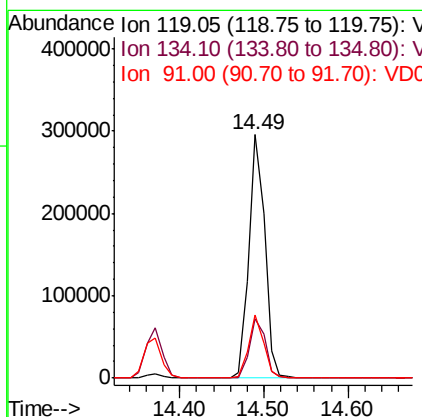
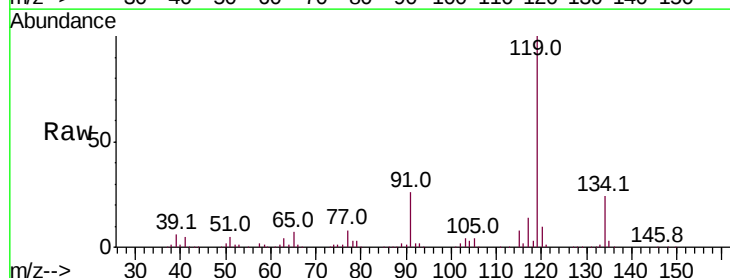
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0418SBS01

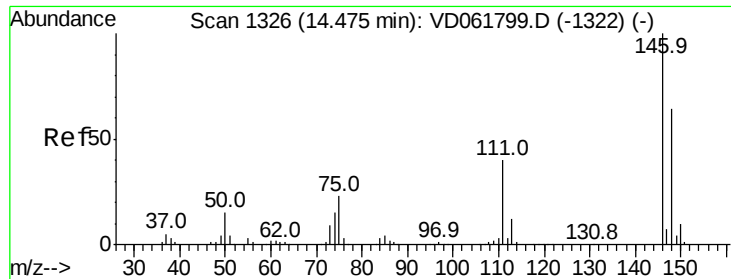
Tot Ion:105 Resp: 468985
 Ion Ratio Lower Upper
 105 100
 134 18.6 8.9 26.7



#86
 p-Isopropyltoluene
 Concen: 19.878 ug/l
 RT: 14.49 min Scan# 1327
 Delta R.T. -0.03 min
 Lab File: VD061873.D
 Acq: 18 Apr 2019 14:40

Tgt Ion:119 Resp: 391416
 Ion Ratio Lower Upper
 119 100
 134 24.4 12.8 38.3
 91 25.9 10.7 32.1

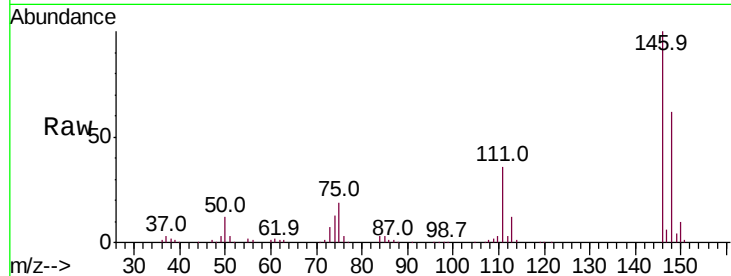




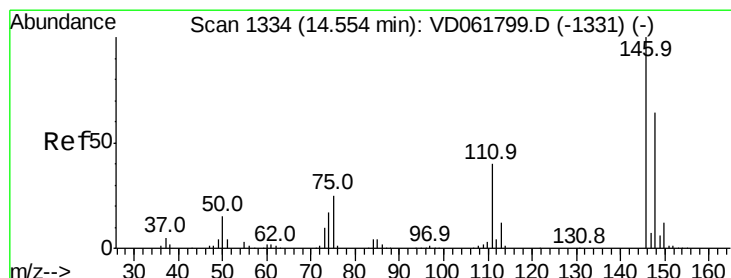
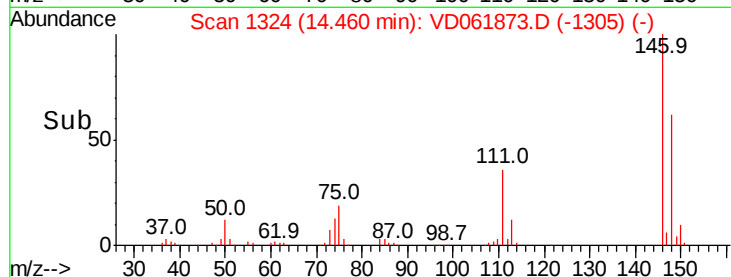
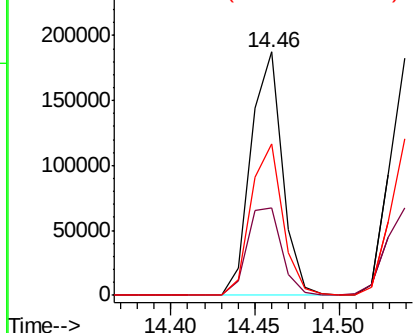
#87
 1,3-Dichlorobenzene
 Concen: 22.457 ug/l
 RT: 14.46 min Scan# 1324
 Delta R.T. -0.02 min
 Lab File: VD061873.D
 Acq: 18 Apr 2019 14:40

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0418SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	35.9	20.0	60.0
148	62.5	31.8	95.4

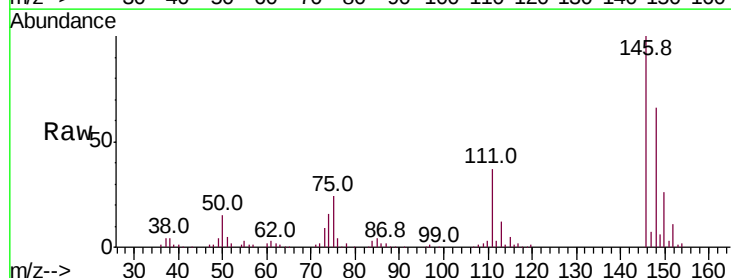


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

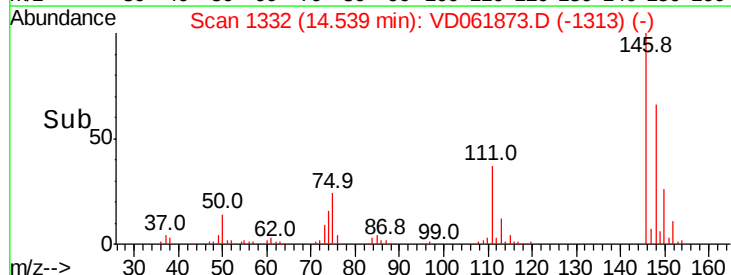
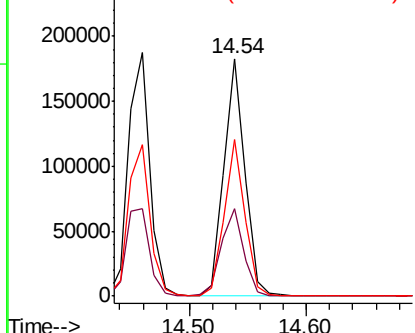


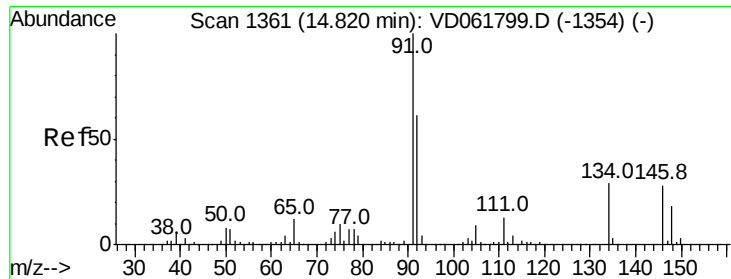
#88
 1,4-Dichlorobenzene
 Concen: 21.385 ug/l
 RT: 14.54 min Scan# 1332
 Delta R.T. -0.02 min
 Lab File: VD061873.D
 Acq: 18 Apr 2019 14:40

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.8	20.2	60.5
148	66.0	32.0	96.2



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

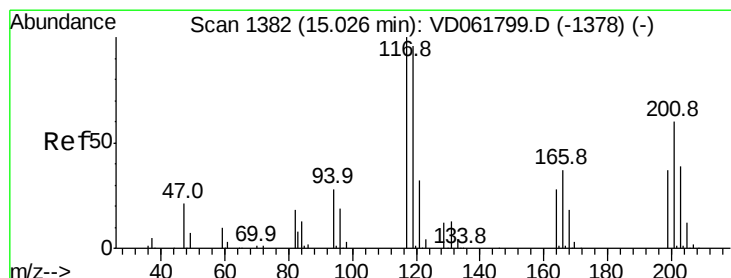
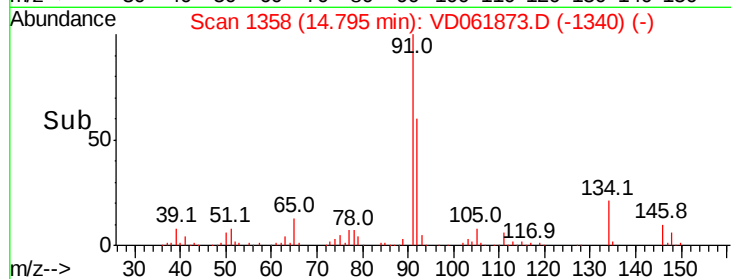
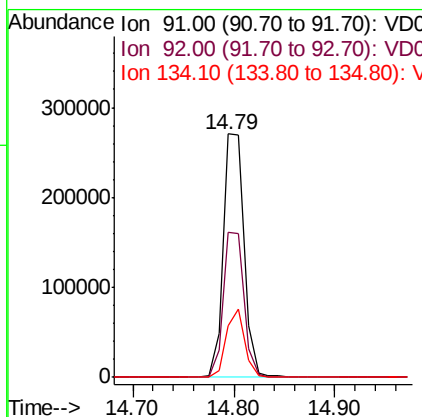
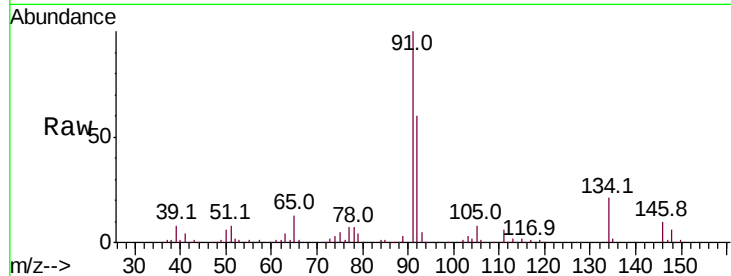




#89
n-Butylbenzene
Concen: 22.379 ug/l
RT: 14.79 min Scan# 1358
Delta R.T. -0.03 min
Lab File: VD061873.D
Acq: 18 Apr 2019 14:40

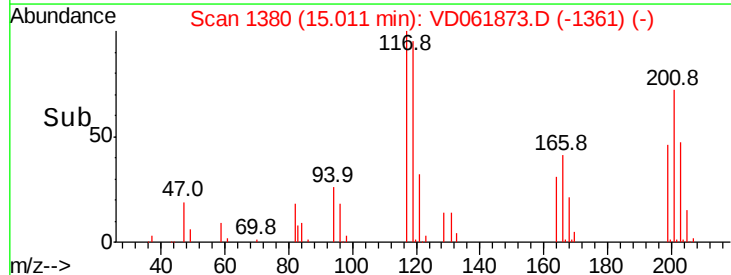
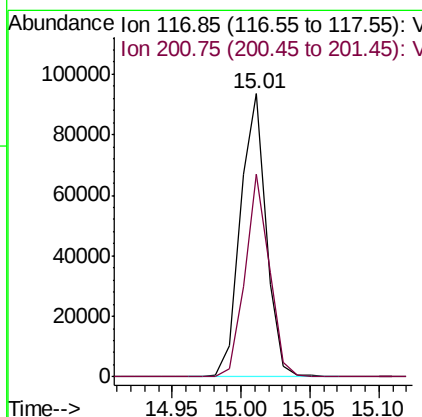
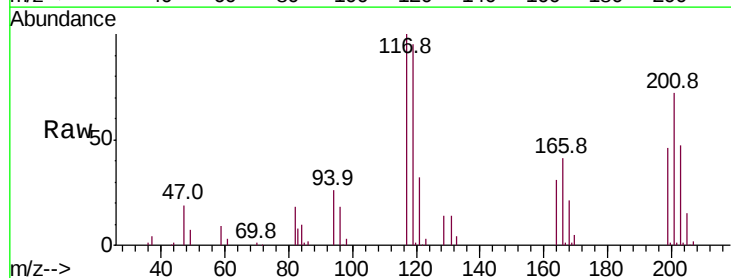
Instrument :
MSVOA_D
ClientSampleId :
VD0418SBS01

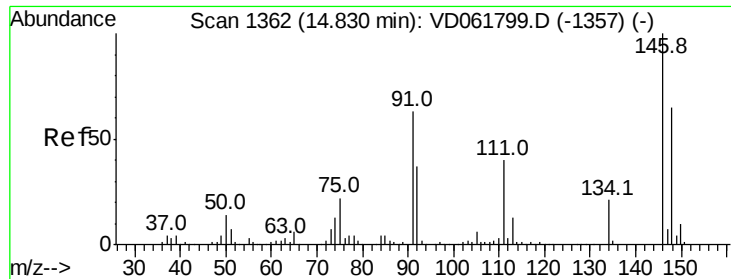
Tot Ion:	91	Resp:	390065
Ion	Ratio	Lower	Upper
91	100		
92	59.7	30.3	91.0
134	21.2	14.5	43.6



#90
Hexachloroethane
Concen: 22.737 ug/l
RT: 15.01 min Scan# 1380
Delta R.T. -0.02 min
Lab File: VD061873.D
Acq: 18 Apr 2019 14:40

Tgt Ion:	117	Resp:	122030
Ion	Ratio	Lower	Upper
117	100		
201	71.6	30.2	90.6

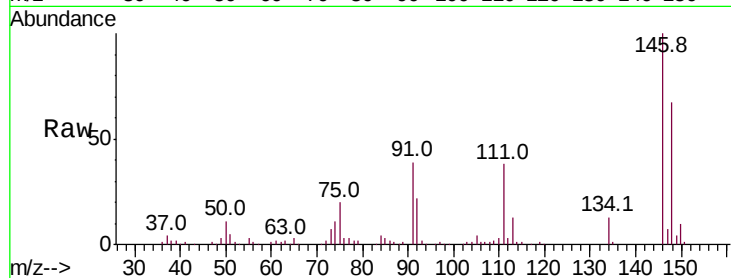




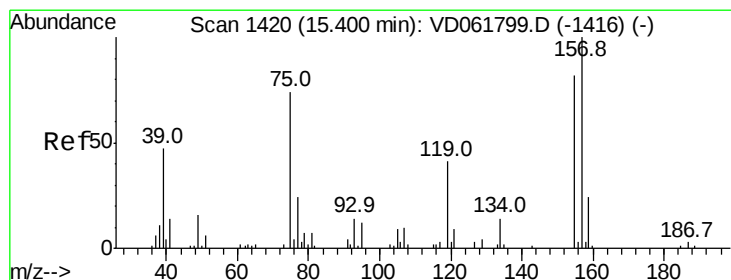
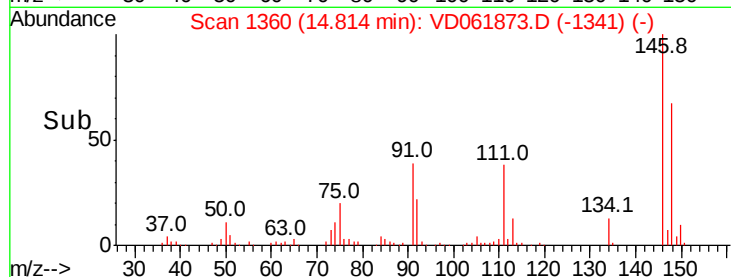
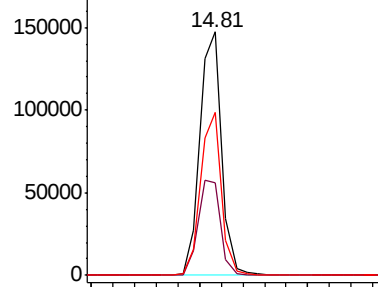
#91
 1,2-Dichlorobenzene
 Concen: 22.719 ug/l
 RT: 14.81 min Scan# 1360
 Delta R.T. -0.02 min
 Lab File: VD061873.D
 Acq: 18 Apr 2019 14:40

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0418SBS01

Tot Ion:146 Resp: 206209
 Ion Ratio Lower Upper
 146 100
 111 38.1 20.0 59.9
 148 67.2 32.3 96.8

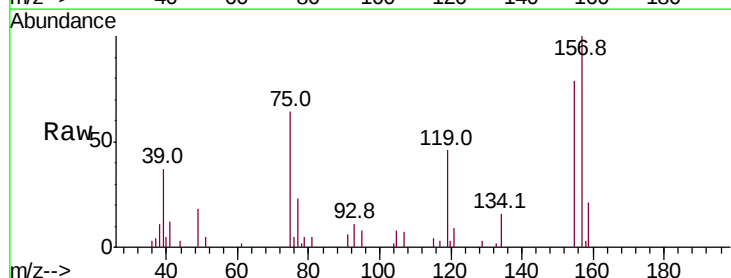


Abundance Ion 145.95 (145.65 to 146.65): V
 200000
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

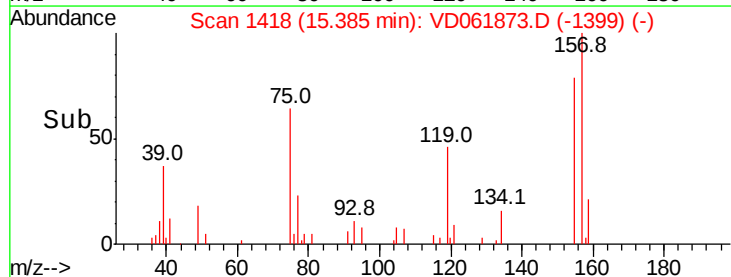
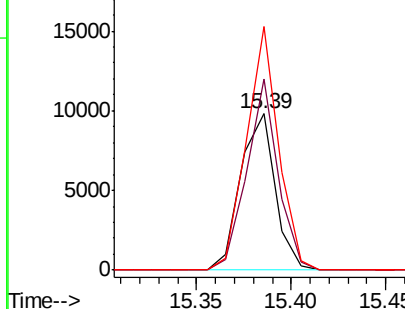


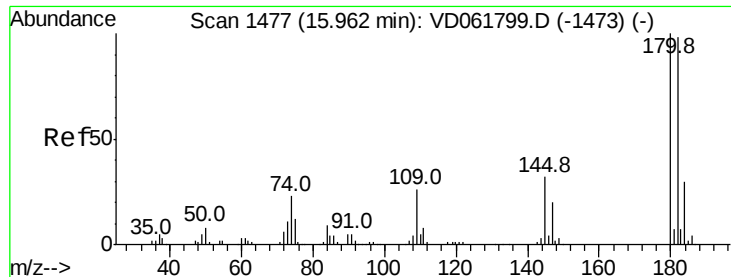
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 23.616 ug/l
 RT: 15.39 min Scan# 1418
 Delta R.T. -0.01 min
 Lab File: VD061873.D
 Acq: 18 Apr 2019 14:40

Tgt Ion: 75 Resp: 12420
 Ion Ratio Lower Upper
 75 100
 155 122.8 55.3 165.8
 157 155.9 67.8 203.2



Abundance Ion 75.00 (74.70 to 75.70): V
 20000
 Ion 154.90 (154.60 to 155.60): V
 Ion 156.85 (156.55 to 157.55): V

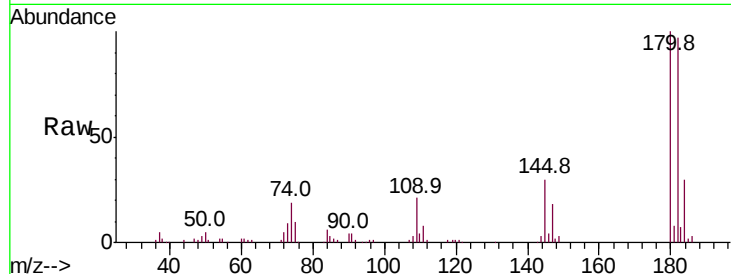




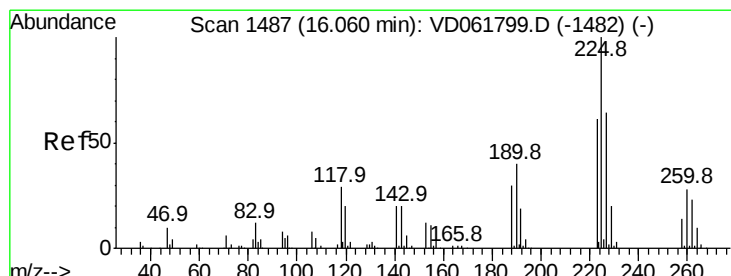
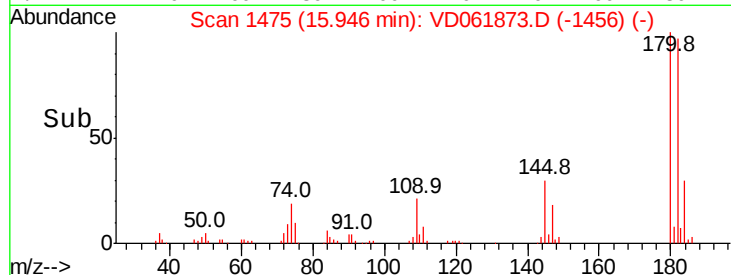
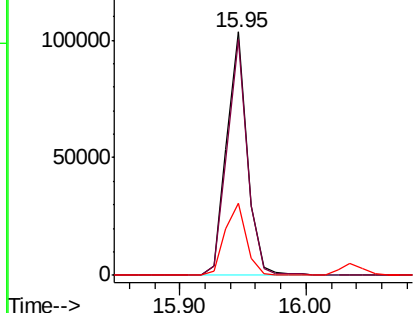
#93
 1,2,4-Trichlorobenzene
 Concen: 23.284 ug/l
 RT: 15.95 min Scan# 1475
 Delta R.T. -0.02 min
 Lab File: VD061873.D
 Acq: 18 Apr 2019 14:40

Instrument :
 MSVOA_D
 ClientSampled :
 VD0418SBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.0	49.3	147.8
145	29.8	16.2	48.6

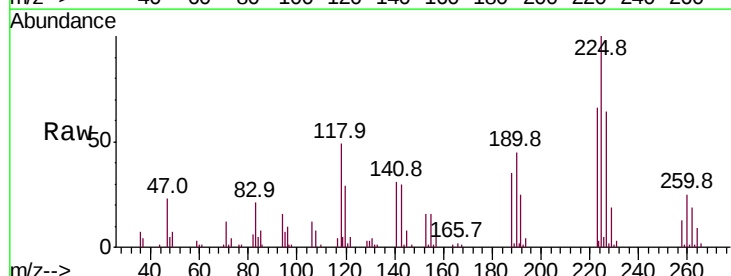


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

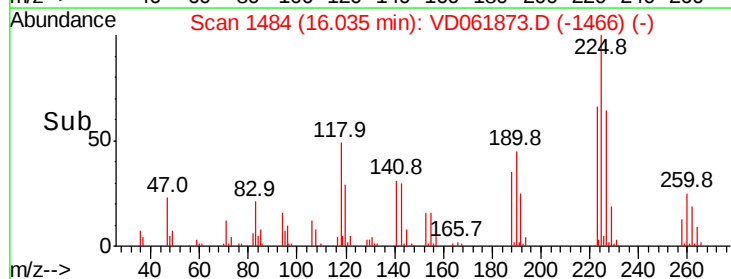
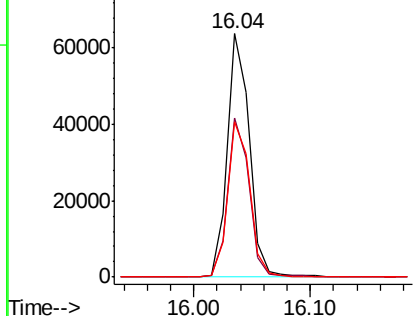


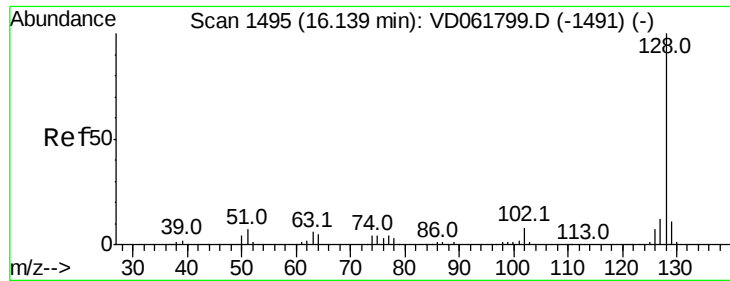
#94
 Hexachlorobutadiene
 Concen: 23.138 ug/l
 RT: 16.04 min Scan# 1484
 Delta R.T. -0.03 min
 Lab File: VD061873.D
 Acq: 18 Apr 2019 14:40

Tgt Ion	Ratio	Lower	Upper
225	100		
223	65.5	30.6	92.0
227	63.9	32.0	96.2



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

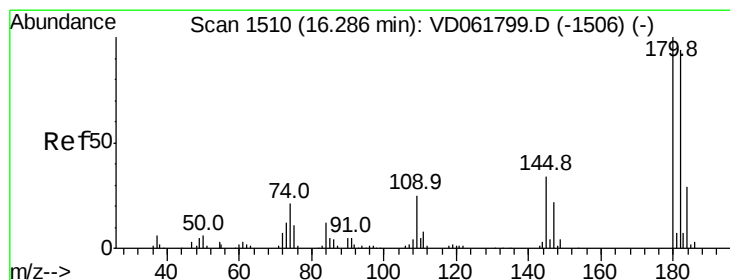
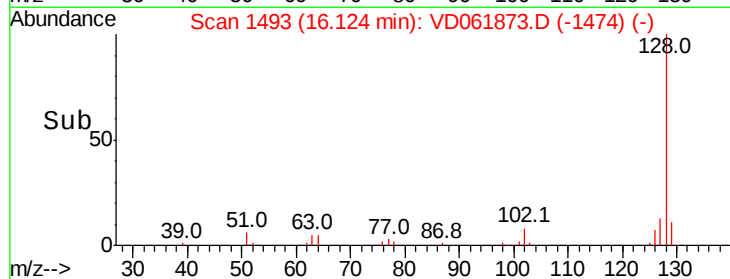
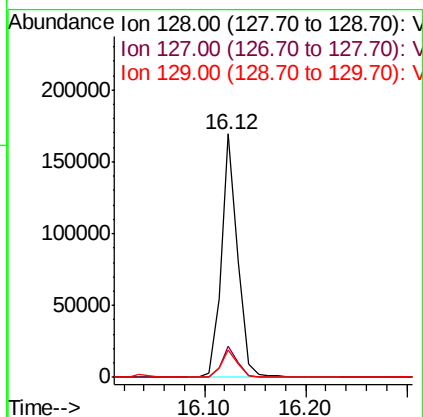
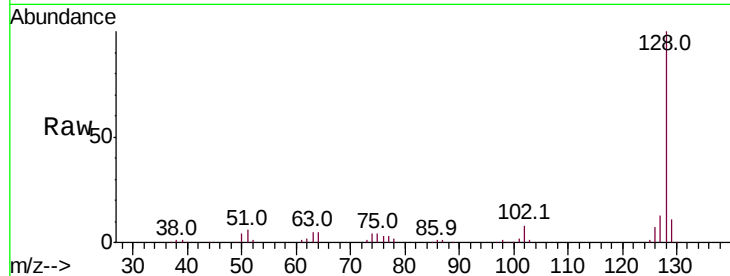




#95
Naphthalene
Concen: 24.870 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. -0.02 min
Lab File: VD061873.D
Acq: 18 Apr 2019 14:40

Instrument :
MSVOA_D
ClientSampleId :
VD0418SBS01

Tot Ion:128 Resp: 190030
Ion Ratio Lower Upper
128 100
127 12.5 9.8 14.8
129 11.2 8.8 13.2



#96
1,2,3-Trichlorobenzene
Concen: 25.041 ug/l
RT: 16.27 min Scan# 1508
Delta R.T. -0.02 min
Lab File: VD061873.D
Acq: 18 Apr 2019 14:40

Tgt Ion:180 Resp: 71140
Ion Ratio Lower Upper
180 100
182 95.8 47.0 141.0
145 31.3 17.0 51.0

