

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092018\
 Data File : VD060061.D
 Acq On : 20 Sep 2018 21:25
 Operator : VA/AP
 Sample : J5017-09MSD
 Misc : 5.10/5ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-S-NW-061MSD

Quant Time: Sep 21 01:02:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D091318S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 13 16:17:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.38	168	1113168	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.42	114	1646416	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.28	117	1160145	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.36	152	447296	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.76	65	516828	59.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.08%	
35) Dibromofluoromethane	6.30	113	703754	54.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.42%	
50) Toluene-d8	9.44	98	1632649	45.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.60%	
62) 4-Bromofluorobenzene	12.42	95	563174	41.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.70%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.57	85	569858	48.50	ug/l	99
3) Chloromethane	1.74	50	568004	54.72	ug/l	99
4) Vinyl Chloride	1.84	62	461060	55.26	ug/l	99
5) Bromomethane	2.13	94	100798	102.06	ug/l	98
6) Chloroethane	2.24	64	158327	84.87	ug/l	97
7) Trichlorofluoromethane	2.49	101	508347	55.34	ug/l	99
8) Diethyl Ether	2.80	74	121063	61.99	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.07	101	269704	46.56	ug/l	98
10) Methyl Iodide	3.23	142	399062	65.04	ug/l	91
11) Tert butyl alcohol	3.94	59	184274	263.08	ug/l	98
12) 1,1-Dichloroethene	3.05	96	265176	57.90	ug/l	95
13) Acrolein	2.96	56	62143	143.26	ug/l	93
14) Allyl chloride	3.51	41	561816	58.16	ug/l	98
15) Acrylonitrile	4.06	53	748533	283.10	ug/l	98
16) Acetone	3.14	43	530456	316.50	ug/l	96
17) Carbon Disulfide	3.29	76	851192	53.94	ug/l	99
18) Methyl Acetate	3.53	43	328227	96.30	ug/l	100
19) Methyl tert-butyl Ether	4.09	73	1192786	56.36	ug/l	100
20) Methylene Chloride	3.70	84	726650	62.77	ug/l	95
21) trans-1,2-Dichloroethene	4.07	96	652387	54.28	ug/l	99
22) Diisopropyl ether	4.83	45	2533845	57.51	ug/l	96
23) Vinyl Acetate	4.78	43	5780931	231.59	ug/l	100
24) 1,1-Dichloroethane	4.73	63	1123212	56.81	ug/l	99
25) 2-Butanone	5.60	43	1211874	267.95	ug/l	100
26) 2,2-Dichloropropane	5.57	77	797612	51.89	ug/l	100
27) cis-1,2-Dichloroethene	5.57	96	724065	57.59	ug/l	99
28) Bromochloromethane	5.90	49	555262	58.42	ug/l	99
29) Tetrahydrofuran	5.93	42	645738	266.23	ug/l	98
30) Chloroform	6.08	83	1120319	55.87	ug/l	99
31) Cyclohexane	6.35	56	609990	31.64	ug/l	99
32) 1,1,1-Trichloroethane	6.27	97	848821	51.04	ug/l	98
36) 1,1-Dichloropropene	6.50	75	711355	43.50	ug/l	99
37) Ethyl Acetate	5.68	43	516902	45.96	ug/l	98
38) Carbon Tetrachloride	6.47	117	631350	41.35	ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.02	83	393939	21.29	ug/l	100
40) Benzene	6.77	78	2119059	50.84	ug/l	100
41) Methacrylonitrile	5.92	41	667126	113.25	ug/l #	85
42) 1,2-Dichloroethane	6.88	62	648464	51.81	ug/l	99
43) Isopropyl Acetate	8.33	43	698940	46.42	ug/l #	98
44) Trichloroethene	7.72	130	599969	46.59	ug/l	98
45) 1,2-Dichloropropane	8.09	63	571748	51.30	ug/l	100
46) Dibromomethane	8.20	93	384199	52.83	ug/l	95
47) Bromodichloromethane	8.47	83	795867	50.76	ug/l	100
48) Methyl methacrylate	8.22	41	458154	54.63	ug/l	98
49) 1,4-Dioxane	8.21	88	89026	1068.77	ug/l	96
51) 4-Methyl-2-Pentanone	9.33	43	2417071	243.07	ug/l	99
52) Toluene	9.53	92	1194547	44.71	ug/l	98
53) t-1,3-Dichloropropene	9.90	75	710400	48.58	ug/l	98
54) cis-1,3-Dichloropropene	9.08	75	874043	50.02	ug/l	99
55) 1,1,2-Trichloroethane	10.16	97	442818	47.73	ug/l	98
56) Ethyl methacrylate	10.02	69	510784	49.64	ug/l	99
57) 1,3-Dichloropropane	10.37	76	697024	50.90	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.90	63	1374554	276.64	ug/l	98
59) 2-Hexanone	10.48	43	1738336	244.73	ug/l	99
60) Dibromochloromethane	10.63	129	541825	47.99	ug/l	99
61) 1,2-Dibromoethane	10.74	107	476660	49.77	ug/l	98
64) Tetrachloroethene	10.23	164	412514	40.30	ug/l	98
65) Chlorobenzene	11.30	112	1258140	50.44	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.40	131	462674	55.00	ug/l	99
67) Ethyl Benzene	11.41	91	1851850	46.14	ug/l	98
68) m/p-Xylenes	11.55	106	1375048	92.76	ug/l	94
69) o-Xylene	11.92	106	676543	46.06	ug/l	97
70) Styrene	11.94	104	1215334	49.21	ug/l	99
71) Bromoform	12.10	173	388220	53.71	ug/l	98
73) Isopropylbenzene	12.27	105	1480084	50.45	ug/l	98
74) N-amyl acetate	12.12	43	872407	75.08	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.55	83	511750	76.90	ug/l	97
76) 1,2,3-Trichloropropane	12.58	75	501081	73.35	ug/l	100
77) Bromobenzene	12.53	156	547750	64.82	ug/l	90
78) n-propylbenzene	12.62	91	1706438	46.26	ug/l	95
79) 2-Chlorotoluene	12.69	91	1106087	53.12	ug/l	95
80) 1,3,5-Trimethylbenzene	12.78	105	1042170	46.35	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.33	75	147942	71.74	ug/l	93
82) 4-Chlorotoluene	12.80	91	1242693	54.29	ug/l	96
83) tert-Butylbenzene	13.04	119	1126328	43.24	ug/l	96
84) 1,2,4-Trimethylbenzene	13.09	105	1101828	45.92	ug/l	99
85) sec-Butylbenzene	13.21	105	1043743	33.75	ug/l	98
86) p-Isopropyltoluene	13.33	119	858729	34.34	ug/l	97
87) 1,3-Dichlorobenzene	13.30	146	748184	50.91	ug/l	98
88) 1,4-Dichlorobenzene	13.38	146	750091	50.32	ug/l	97
89) n-Butylbenzene	13.64	91	742234	28.89	ug/l	97
90) Hexachloroethane	13.84	117	187885	30.33	ug/l	78
91) 1,2-Dichlorobenzene	13.65	146	665758	57.56	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.22	75	63682	62.77	ug/l	73

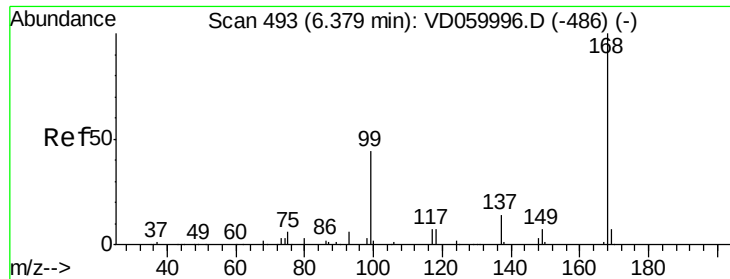
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.78	180	287864	27.49	ug/l	96
94) Hexachlorobutadiene	14.87	225	95039	13.72	ug/l	96
95) Naphthalene	14.96	128	695373	43.00	ug/l	98
96) 1,2,3-Trichlorobenzene	15.02	180	9856	1.07	ug/l	82

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 6.38 min Scan# 494

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

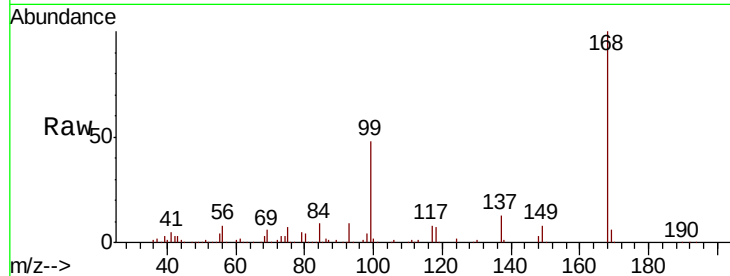
RA-091918-S-NW-061MSD

Tot Ion:168 Resp: 1113168

Ion Ratio Lower Upper

168 100

99 48.1 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.38

400000

300000

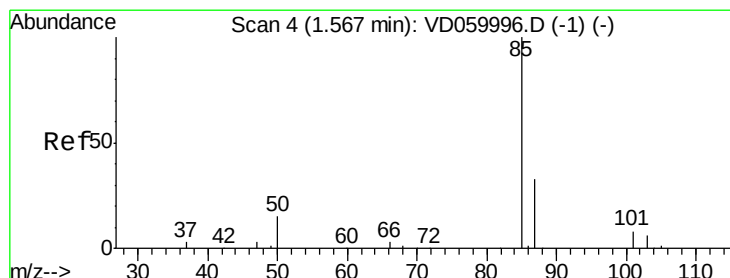
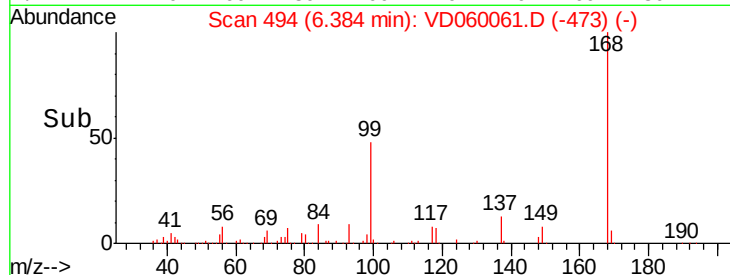
200000

100000

0

6.30 6.40 6.50 6.60

Time-->



#2

Dichlorodifluoromethane

Concen: 48.50 ug/l

RT: 1.57 min Scan# 5

Delta R.T. 0.01 min

Lab File: VD060061.D

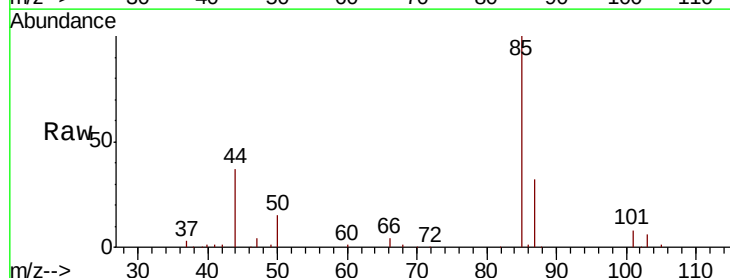
Acq: 20 Sep 2018 21:25

Tgt Ion: 85 Resp: 569858

Ion Ratio Lower Upper

85 100

87 32.3 16.4 49.1



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.57

300000

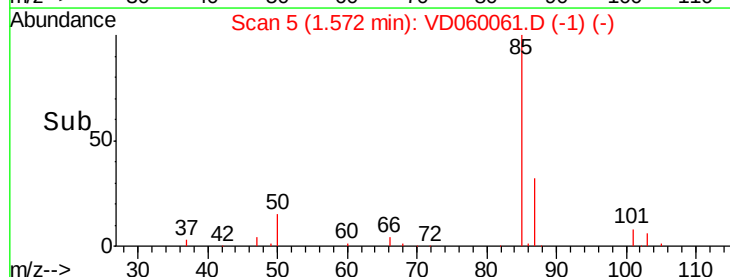
200000

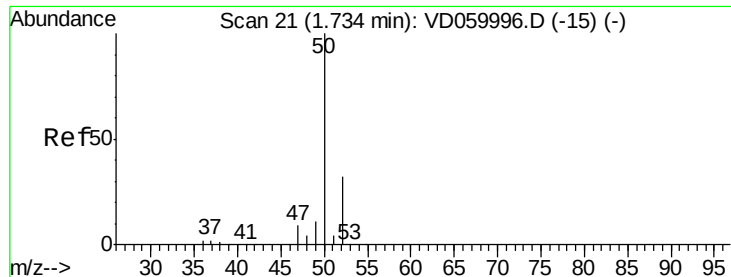
100000

0

1.50 1.60 1.70

Time-->

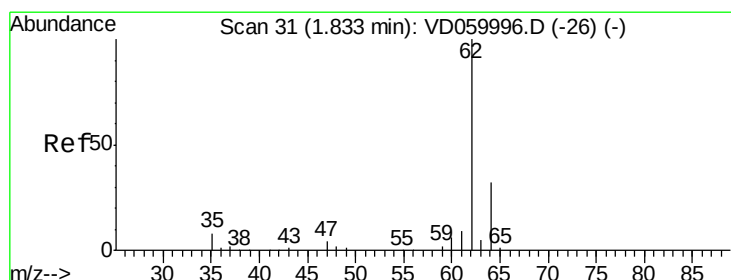
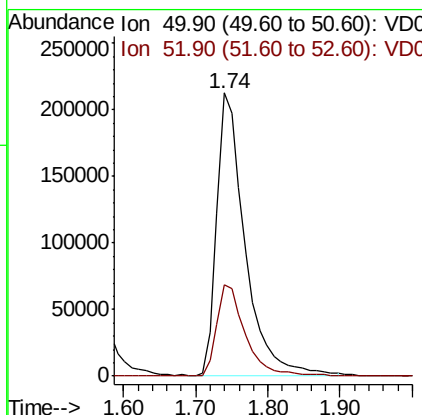
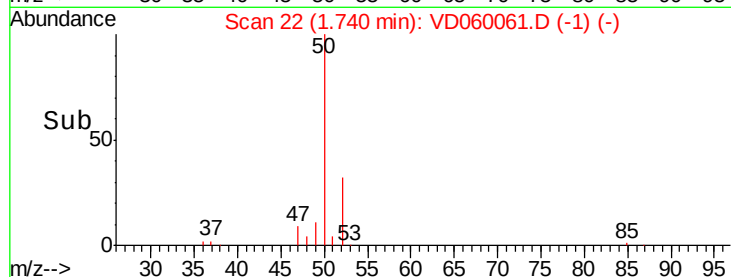
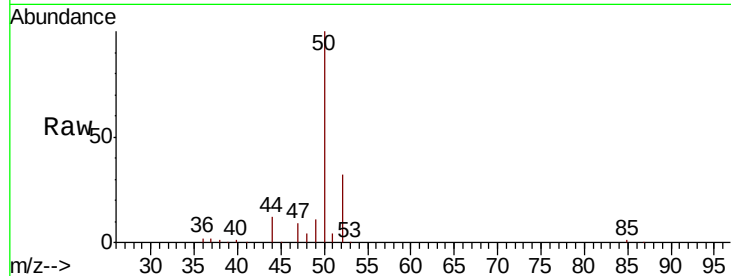




#3
Chloromethane
Concen: 54.72 ug/l
RT: 1.74 min Scan# 22
Delta R.T. 0.01 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

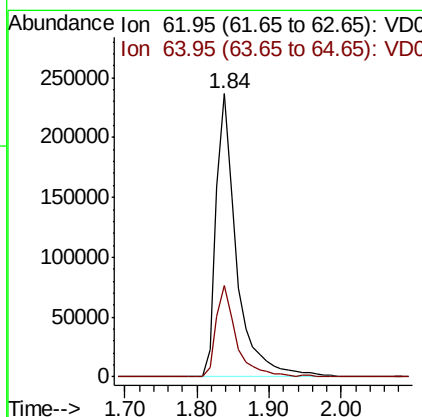
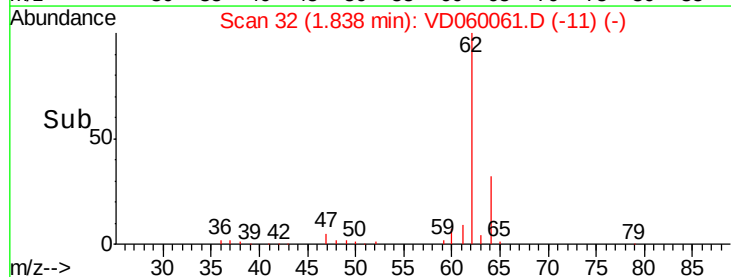
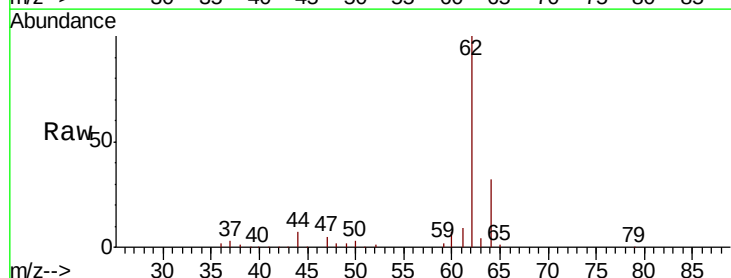
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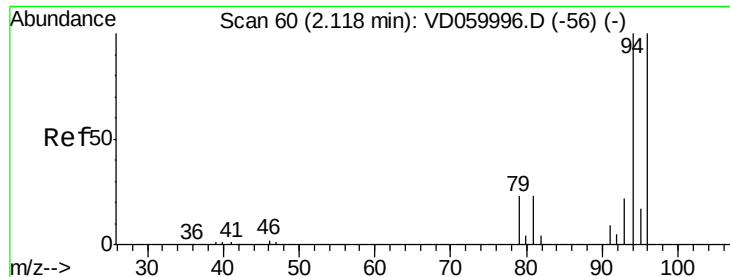
Tot Ion: 50 Resp: 568004
Ion Ratio Lower Upper
50 100
52 32.4 25.4 38.2



#4
Vinyl Chloride
Concen: 55.26 ug/l
RT: 1.84 min Scan# 32
Delta R.T. 0.01 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Tgt Ion: 62 Resp: 461060
Ion Ratio Lower Upper
62 100
64 32.4 25.5 38.3





#5

Bromomethane

Concen: 102.06 ug/l

RT: 2.13 min Scan# 62

Delta R.T. 0.02 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

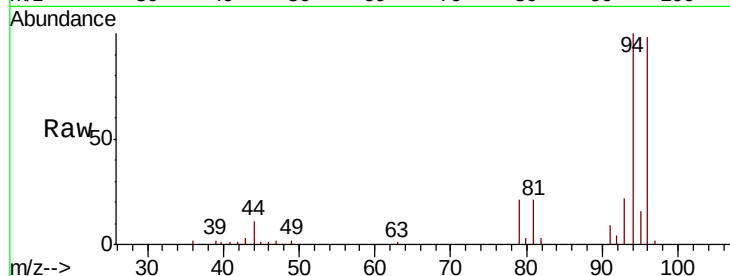
RA-091918-S-NW-061MSD

Tot Ion: 94 Resp: 100798

Ion Ratio Lower Upper

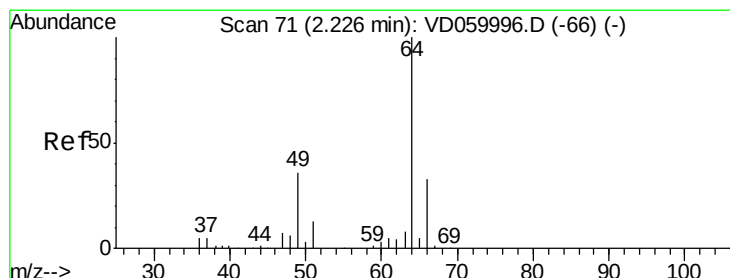
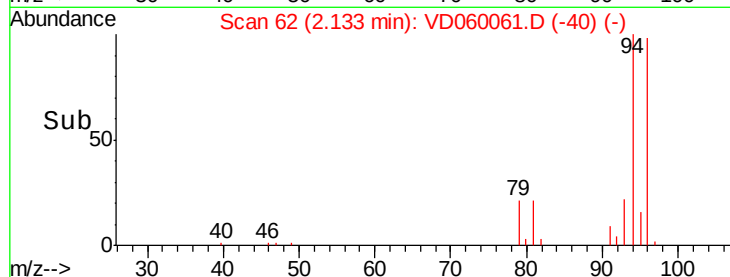
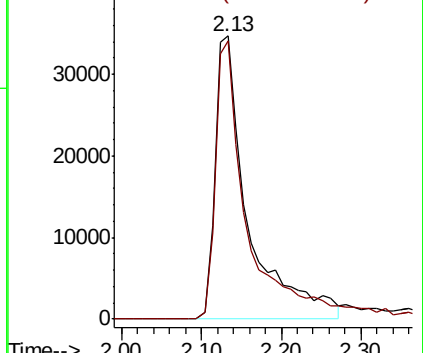
94 100

96 98.2 79.8 119.8



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 84.87 ug/l

RT: 2.24 min Scan# 73

Delta R.T. 0.02 min

Lab File: VD060061.D

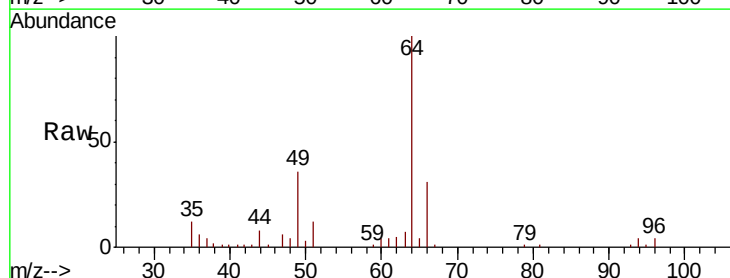
Acq: 20 Sep 2018 21:25

Tgt Ion: 64 Resp: 158327

Ion Ratio Lower Upper

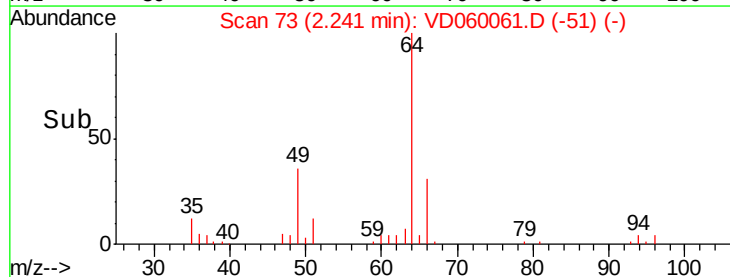
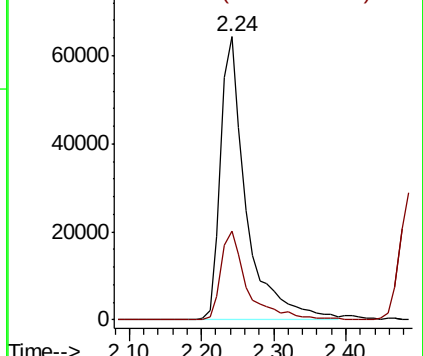
64 100

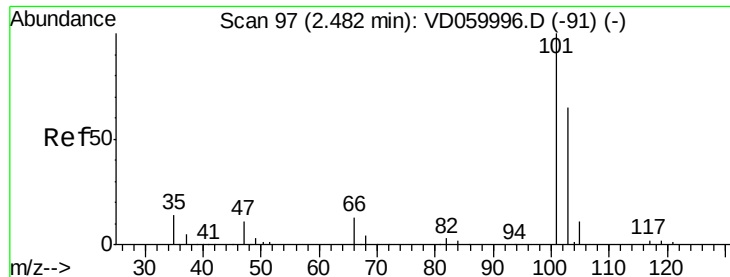
66 31.2 26.5 39.7



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

Trichlorofluoromethane

Concen: 55.34 ug/l

RT: 2.49 min Scan# 98

Delta R.T. 0.01 min

Lab File: VD060061.D

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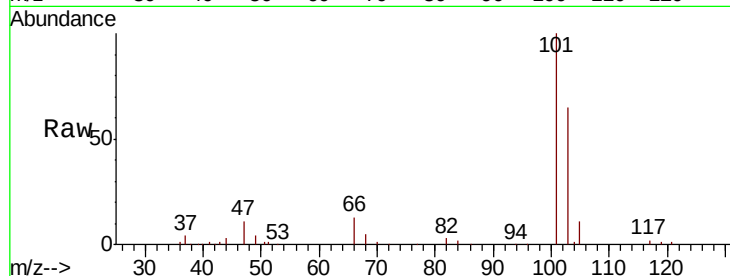
RA-091918-S-NW-061MSD

Tot Ion:101 Resp: 508347

Ion Ratio Lower Upper

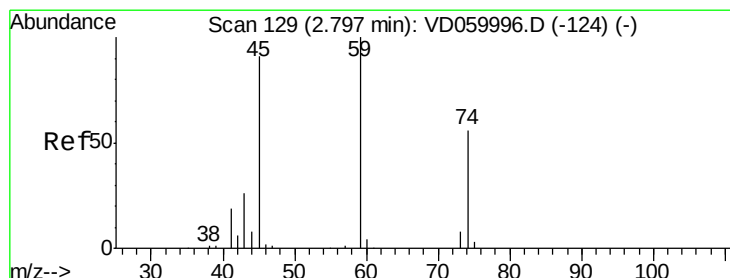
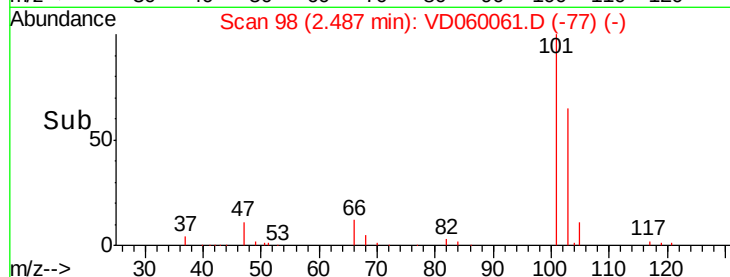
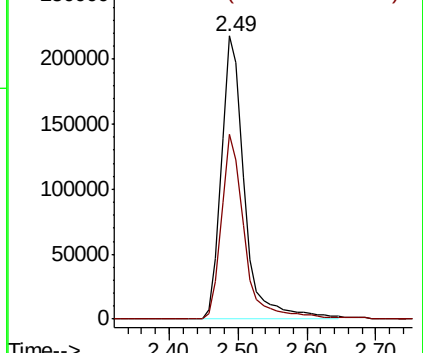
101 100

103 65.2 51.6 77.4



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 102.85 (102.55 to 103.55): V



#8

Diethyl Ether

Concen: 61.99 ug/l

RT: 2.80 min Scan# 130

Delta R.T. 0.01 min

Lab File: VD060061.D

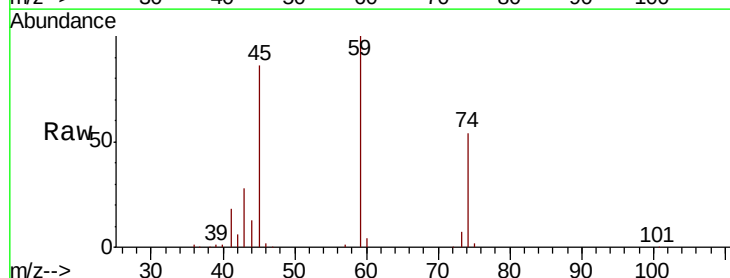
Acq: 20 Sep 2018 21:25

Tgt Ion: 74 Resp: 121063

Ion Ratio Lower Upper

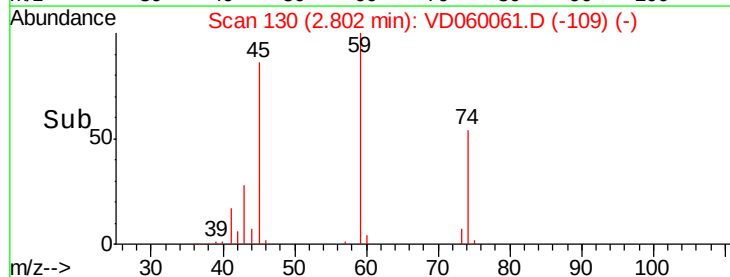
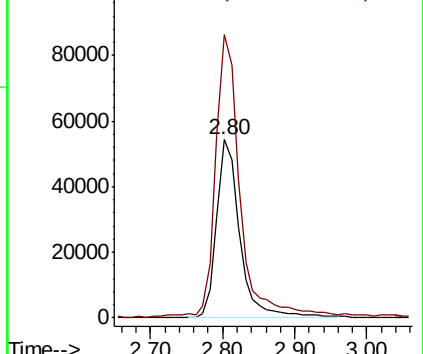
74 100

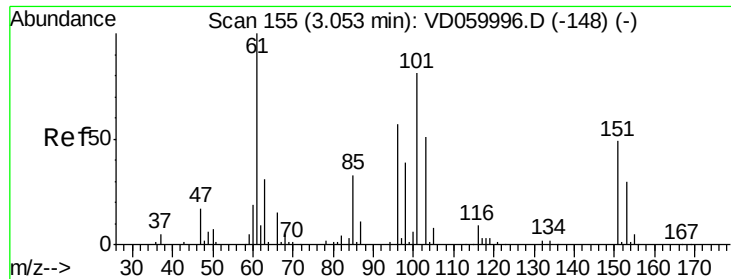
45 158.9 81.2 243.4



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: 46.56 ug/l

RT: 3.07 min Scan# 157

Delta R.T. 0.02 min

Lab File: VD060061.D

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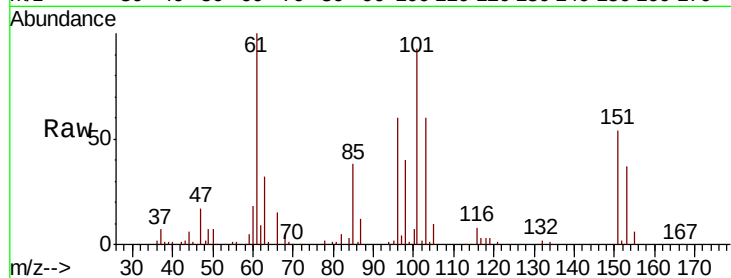
Tot Ion:101 Resp: 269704

Ion Ratio Lower Upper

101 100

85 40.5 33.1 49.7

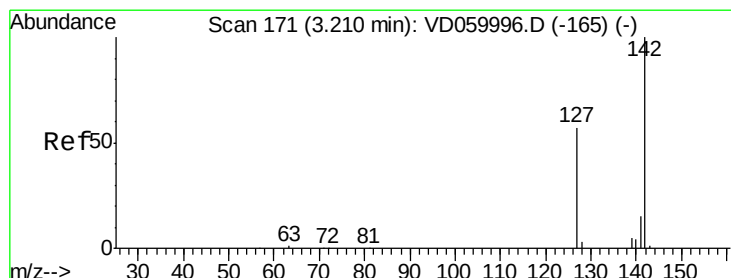
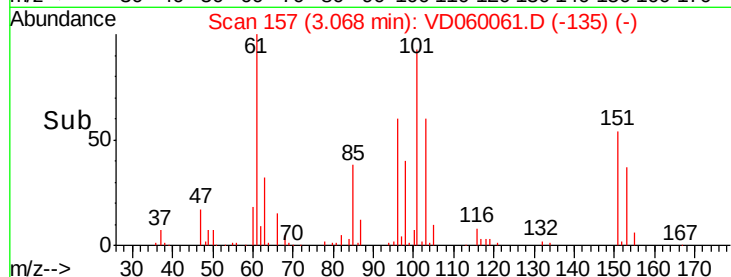
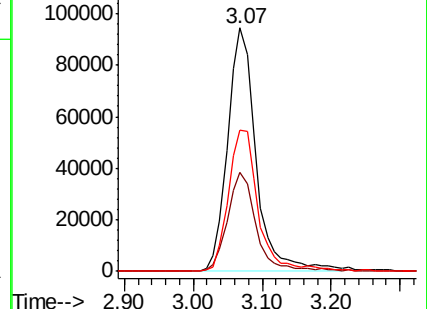
151 57.9 48.2 72.4



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: 65.04 ug/l

RT: 3.23 min Scan# 173

Delta R.T. 0.02 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

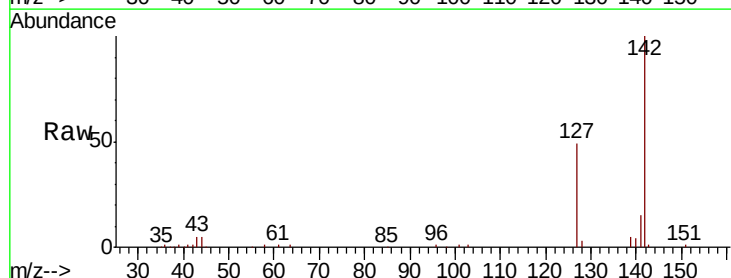
Tgt Ion:142 Resp: 399062

Ion Ratio Lower Upper

142 100

127 49.3 45.8 68.8

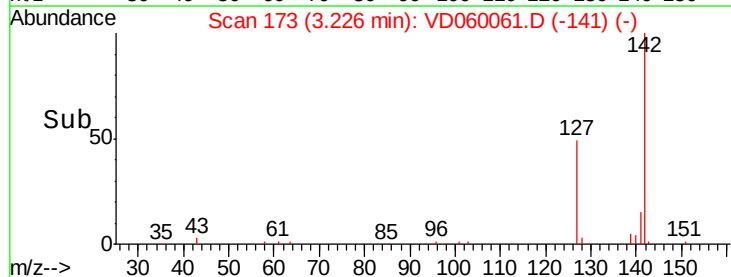
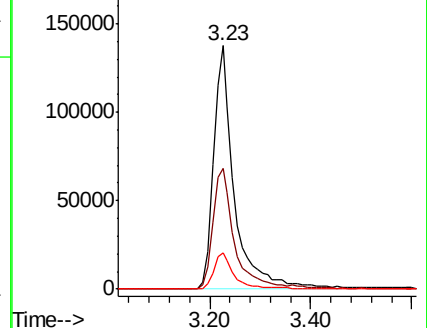
141 15.0 12.2 18.4

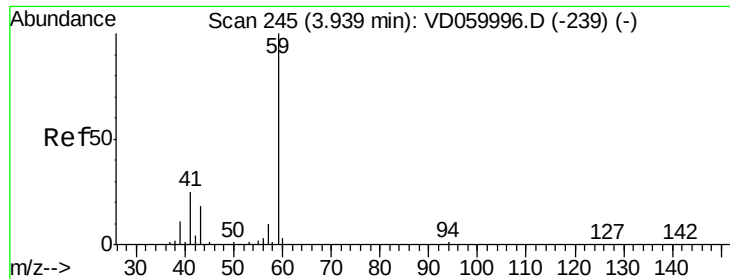


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

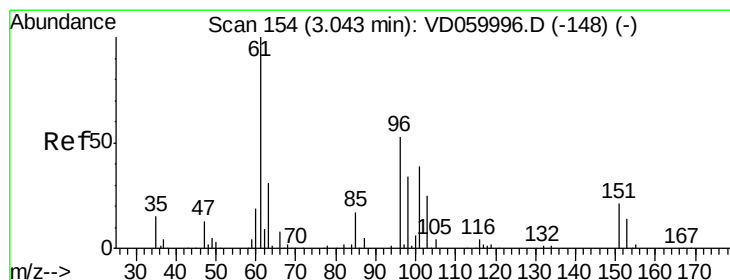
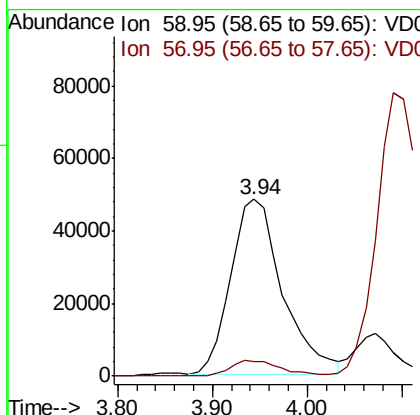
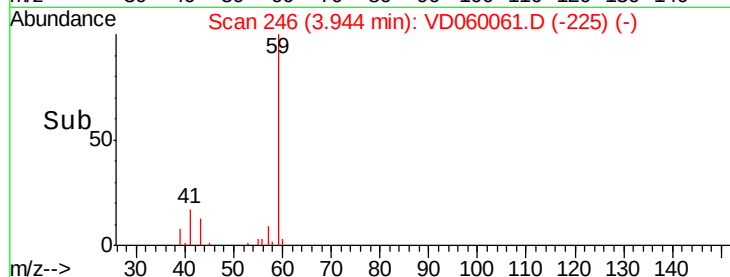
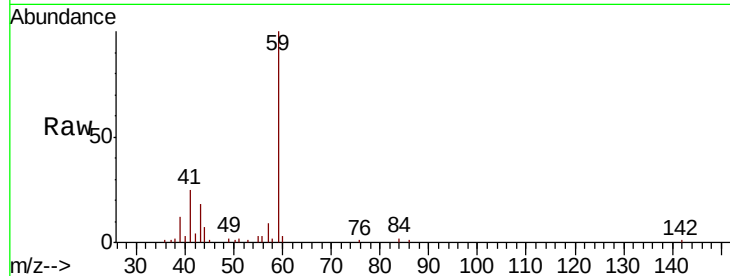




#11
Tert butyl alcohol
Concen: 263.08 ug/l
RT: 3.94 min Scan# 246
Delta R.T. 0.01 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

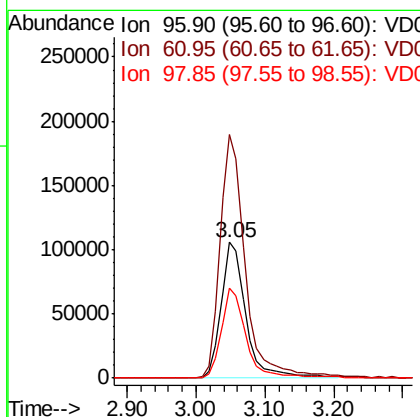
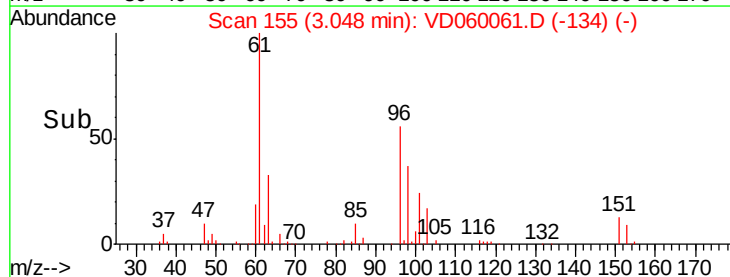
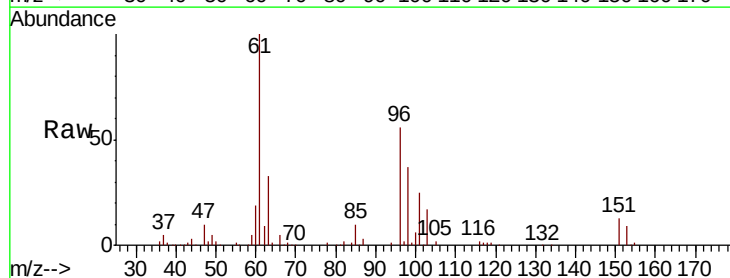
Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-NW-061MSD

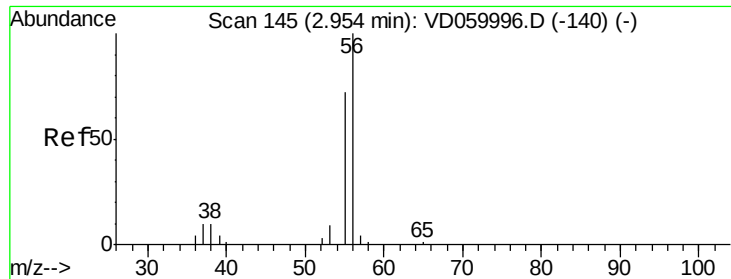
Tot Ion: 59 Resp: 184274
Ion Ratio Lower Upper
59 100
57 8.5 7.4 11.2



#12
1,1-Dichloroethene
Concen: 57.90 ug/l
RT: 3.05 min Scan# 155
Delta R.T. 0.01 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Tgt Ion: 96 Resp: 265176
Ion Ratio Lower Upper
96 100
61 179.0 149.8 224.6
98 66.6 50.2 75.4





#13

Acrolein

Concen: 143.26 ug/l

RT: 2.96 min Scan# 146

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

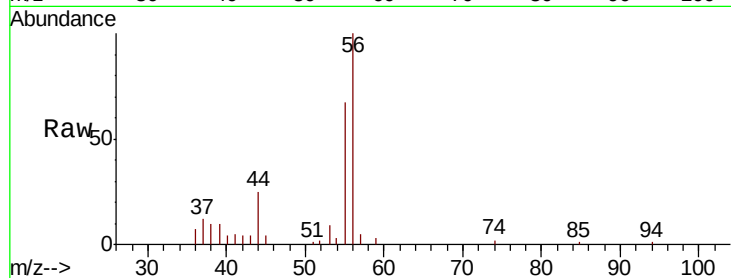
RA-091918-S-NW-061MSD

Tot Ion: 56 Resp: 62143

Ion Ratio Lower Upper

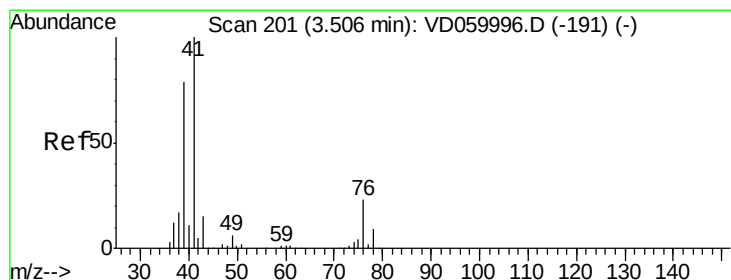
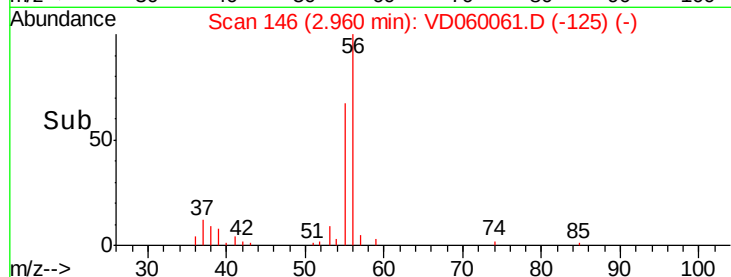
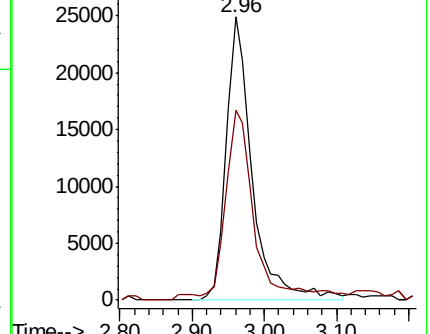
56 100

55 66.9 58.3 87.5



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 58.16 ug/l

RT: 3.51 min Scan# 202

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

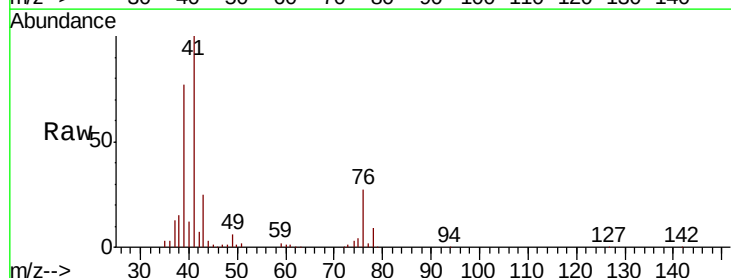
Tgt Ion: 41 Resp: 561816

Ion Ratio Lower Upper

41 100

39 77.1 63.6 95.4

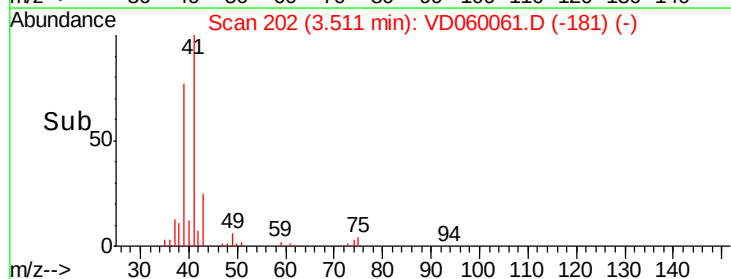
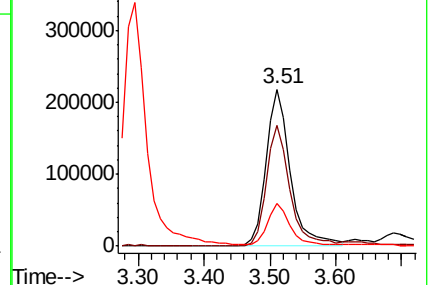
76 26.8 21.1 31.7

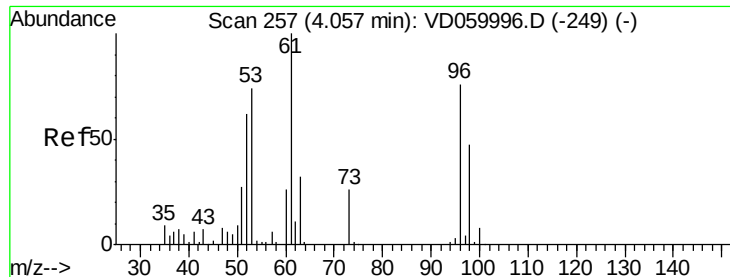


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 283.10 ug/l

RT: 4.06 min Scan# 258

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-061MSD

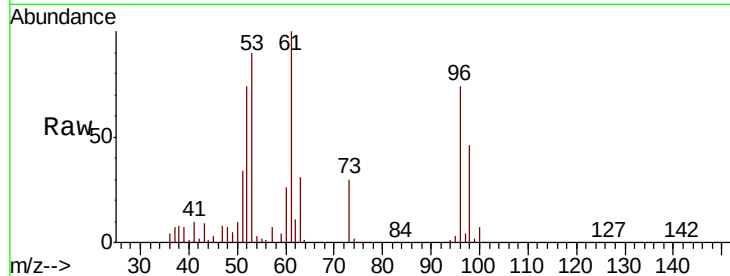
Tot Ion: 53 Resp: 748533

Ion Ratio Lower Upper

53 100

52 82.3 66.7 100.1

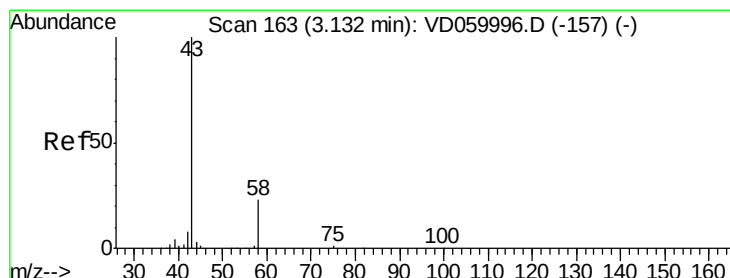
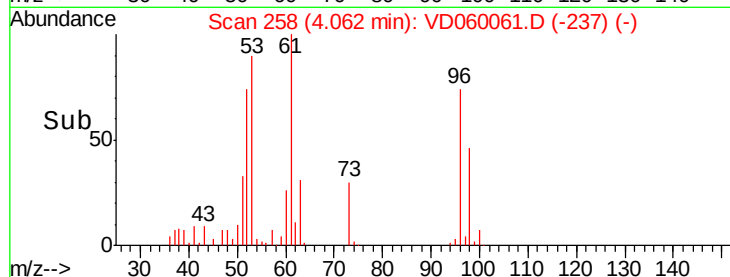
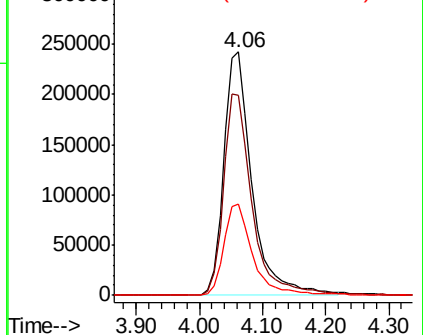
51 37.6 29.0 43.6



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: 316.50 ug/l

RT: 3.14 min Scan# 164

Delta R.T. 0.01 min

Lab File: VD060061.D

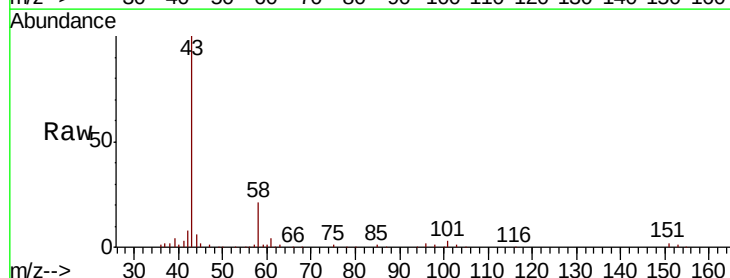
Acq: 20 Sep 2018 21:25

Tgt Ion: 43 Resp: 530456

Ion Ratio Lower Upper

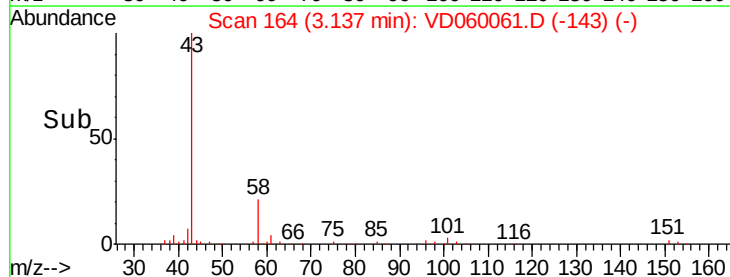
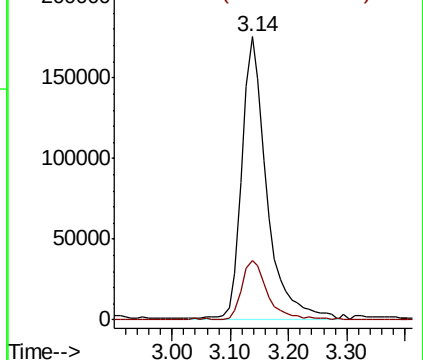
43 100

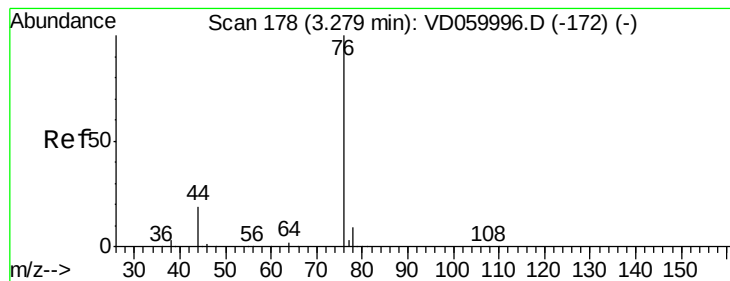
58 20.9 18.1 27.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#17

Carbon Disulfide

Concen: 53.94 ug/l

RT: 3.29 min Scan# 180

Delta R.T. 0.02 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

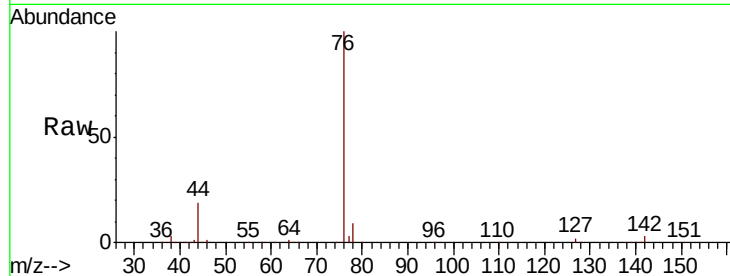
RA-091918-S-NW-061MSD

Tot Ion: 76 Resp: 851192

Ion Ratio Lower Upper

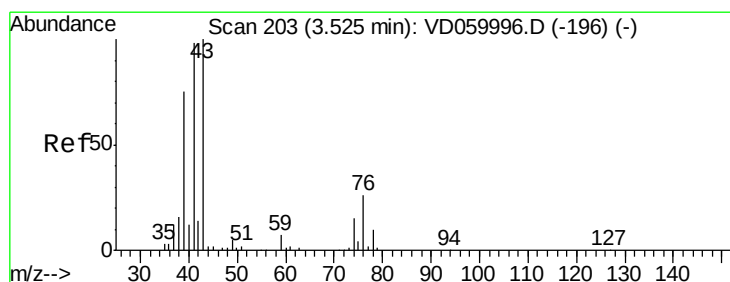
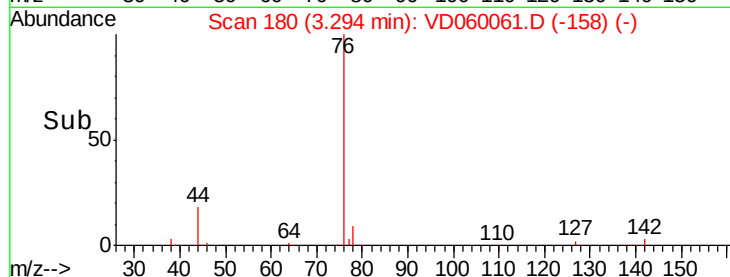
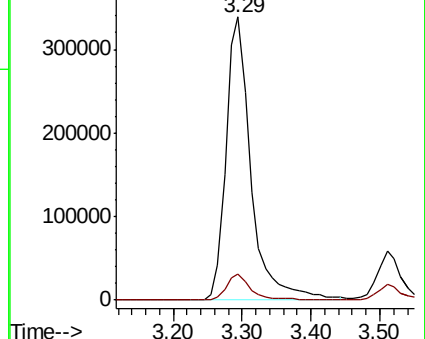
76 100

78 9.2 7.0 10.4



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 96.30 ug/l

RT: 3.53 min Scan# 204

Delta R.T. 0.01 min

Lab File: VD060061.D

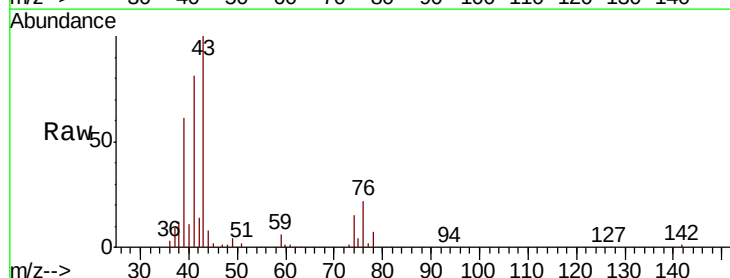
Acq: 20 Sep 2018 21:25

Tgt Ion: 43 Resp: 328227

Ion Ratio Lower Upper

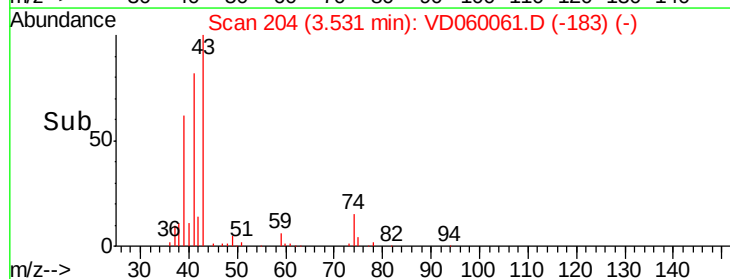
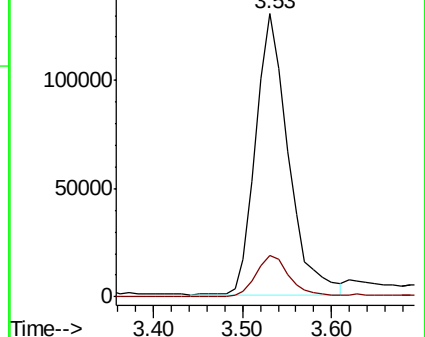
43 100

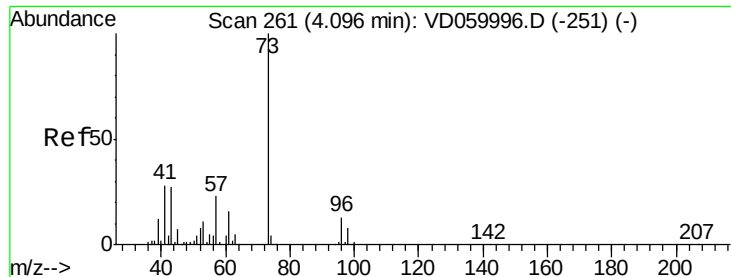
74 14.7 11.8 17.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





#19

Methyl tert-butyl Ether
 Concen: 56.36 ug/l
 RT: 4.09 min Scan# 261
 Delta R.T. -0.00 min
 Lab File: VD060061.D
 Acq: 20 Sep 2018 21:25

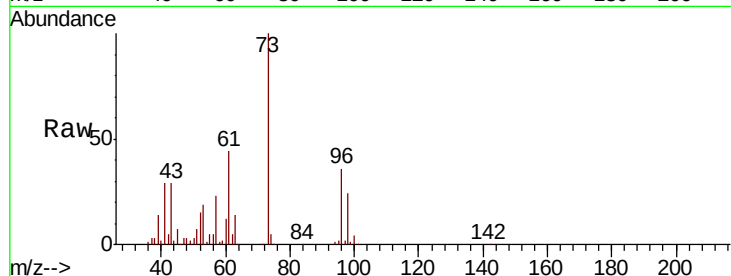
Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-S-NW-061MSD

Tot Ion: 73 Resp: 1192786

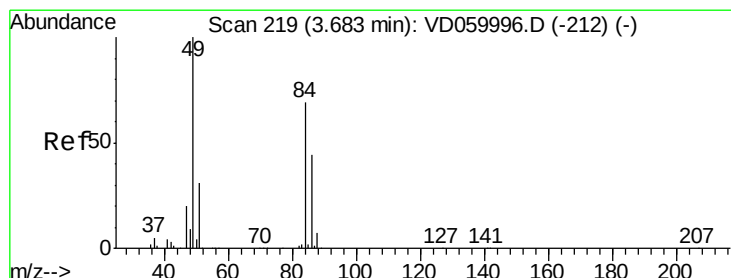
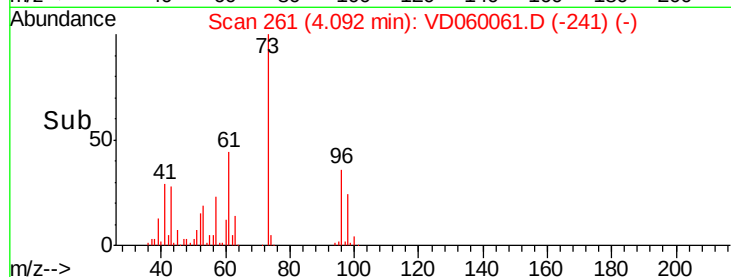
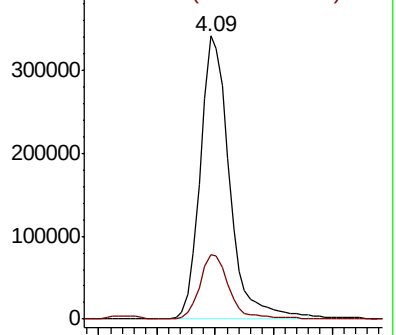
Ion Ratio Lower Upper

73 100

57 22.8 18.4 27.6



Abundance Ion 73.00 (72.70 to 73.70): VDC
 Ion 57.05 (56.75 to 57.75): VDC



#20

Methylene Chloride
 Concen: 62.77 ug/l
 RT: 3.70 min Scan# 221
 Delta R.T. 0.02 min
 Lab File: VD060061.D
 Acq: 20 Sep 2018 21:25

Tgt Ion: 84 Resp: 726650

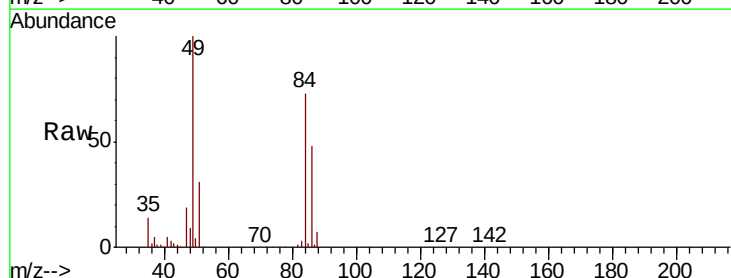
Ion Ratio Lower Upper

84 100

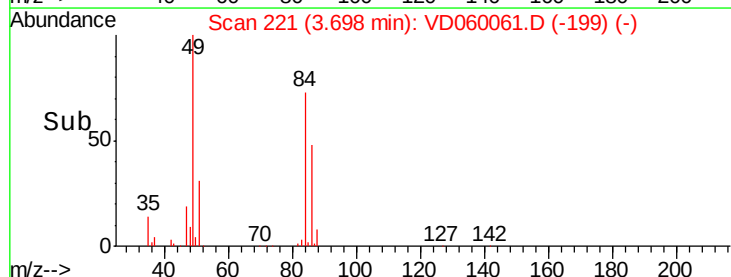
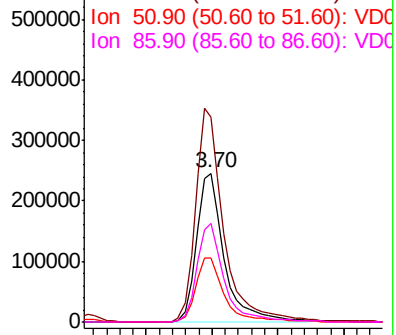
49 137.5 116.6 175.0

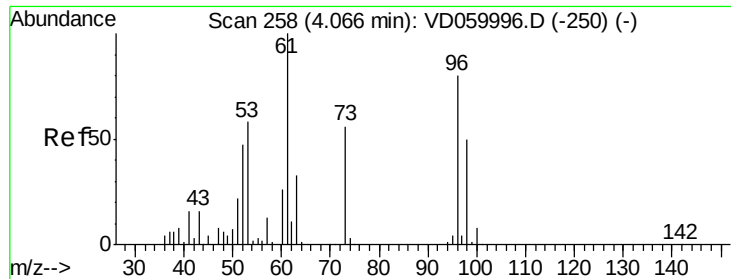
51 42.6 35.9 53.9

86 65.9 51.8 77.6



Abundance Ion 83.95 (83.65 to 84.65): VDC
 Ion 48.90 (48.60 to 49.60): VDC
 Ion 50.90 (50.60 to 51.60): VDC
 Ion 85.90 (85.60 to 86.60): VDC

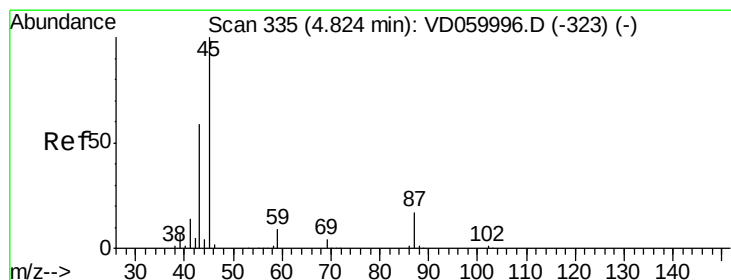
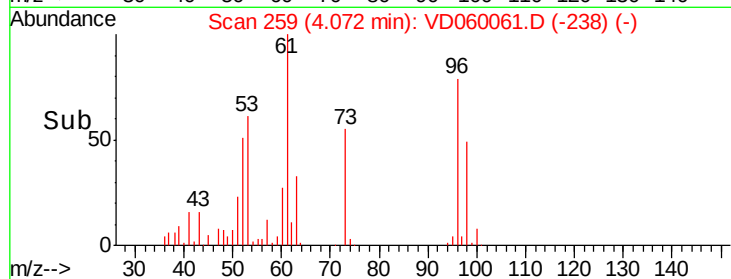
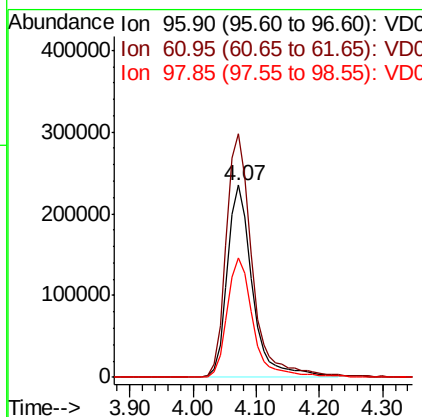
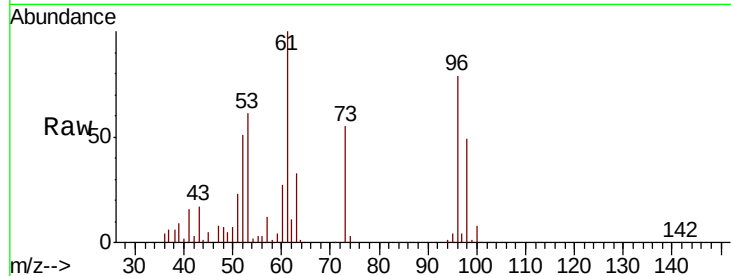




#21
trans-1,2-Dichloroethene
Concen: 54.28 ug/l
RT: 4.07 min Scan# 259
Delta R.T. 0.01 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

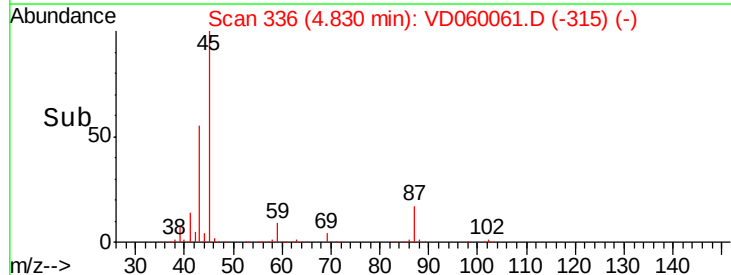
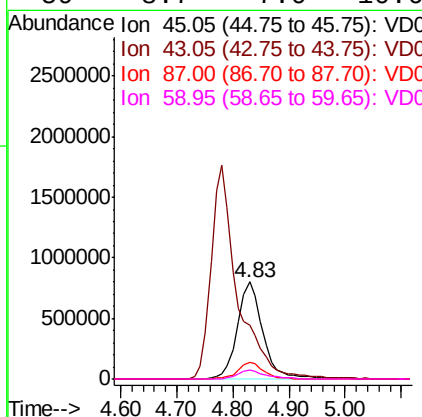
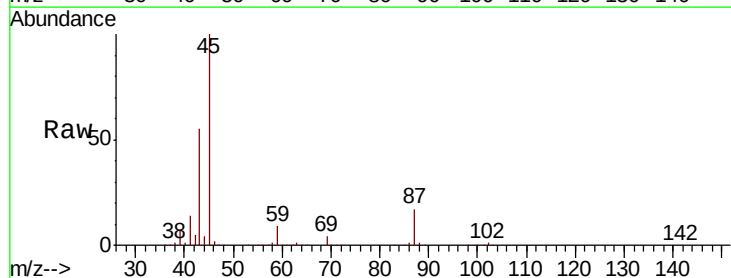
Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-NW-061MSD

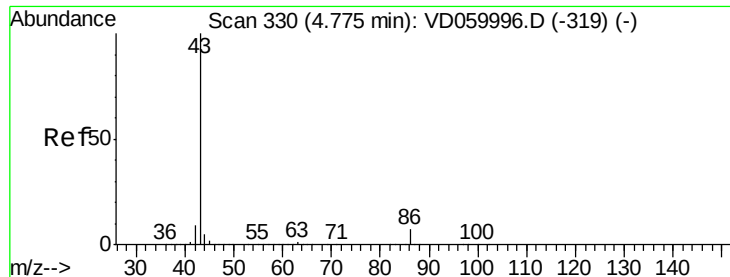
Tot Ion: 96 Resp: 652387
Ion Ratio Lower Upper
96 100
61 126.9 100.1 150.1
98 62.3 49.5 74.3



#22
Diisopropyl ether
Concen: 57.51 ug/l
RT: 4.83 min Scan# 336
Delta R.T. 0.01 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Tgt Ion: 45 Resp: 2533845
Ion Ratio Lower Upper
45 100
43 55.0 47.1 70.7
87 17.3 14.2 21.2
59 8.7 7.0 10.6





#23

Vinyl Acetate

Concen: 231.59 ug/l

RT: 4.78 min Scan# 331

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

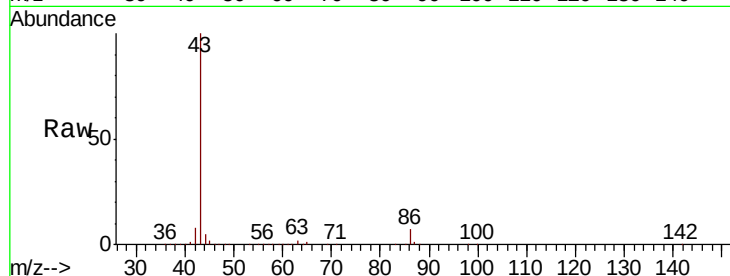
RA-091918-S-NW-061MSD

Tot Ion: 43 Resp: 5780931

Ion Ratio Lower Upper

43 100

86 6.9 5.5 8.3



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC

2000000

1500000

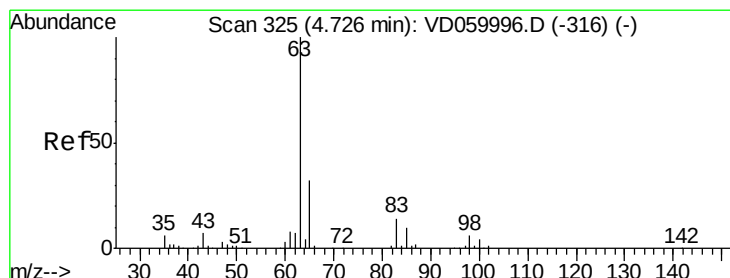
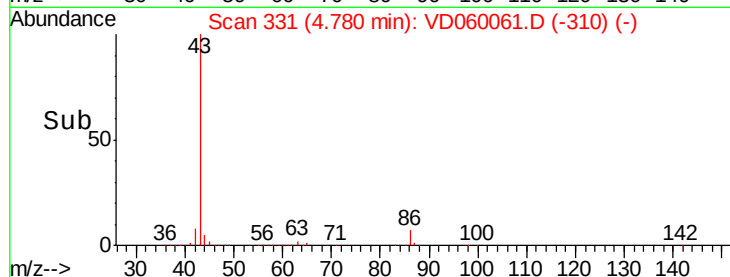
1000000

500000

0

4.60 4.70 4.80 4.90 5.00

Time-->



#24

1,1-Dichloroethane

Concen: 56.81 ug/l

RT: 4.73 min Scan# 326

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

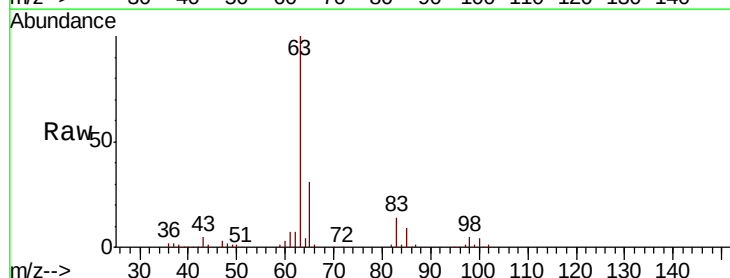
Tgt Ion: 63 Resp: 1123212

Ion Ratio Lower Upper

63 100

98 5.4 2.9 8.6

100 3.7 1.8 5.4



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC

500000

400000

300000

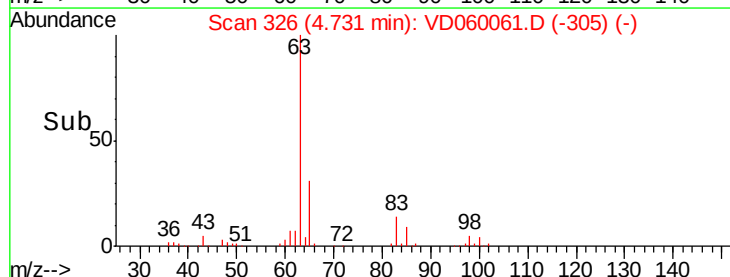
200000

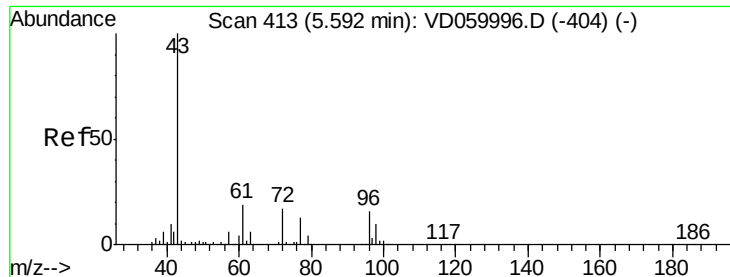
100000

0

4.60 4.70 4.80 4.90

Time-->





#25

2-Butanone

Concen: 267.95 ug/l

RT: 5.60 min Scan# 414

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

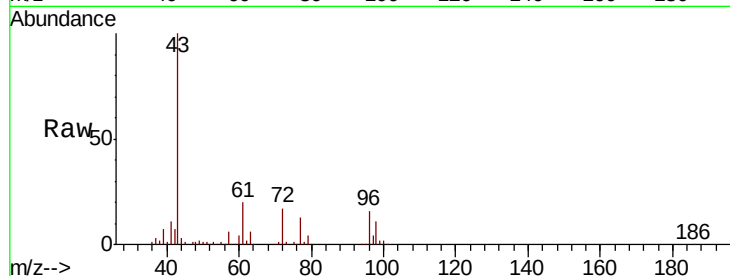
RA-091918-S-NW-061MSD

Tot Ion: 43 Resp: 1211874

Ion Ratio Lower Upper

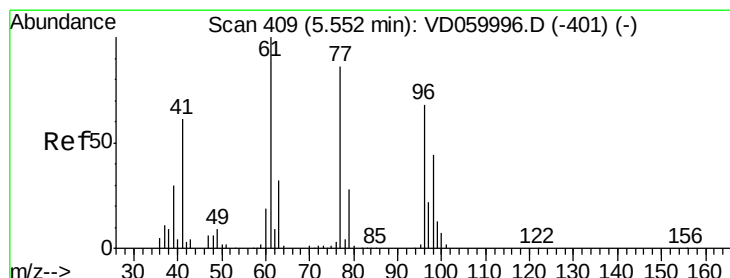
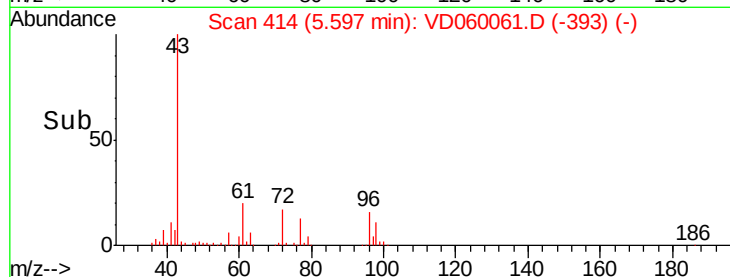
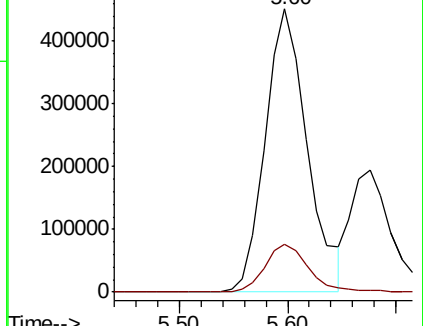
43 100

72 17.1 13.6 20.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 51.89 ug/l

RT: 5.57 min Scan# 411

Delta R.T. 0.02 min

Lab File: VD060061.D

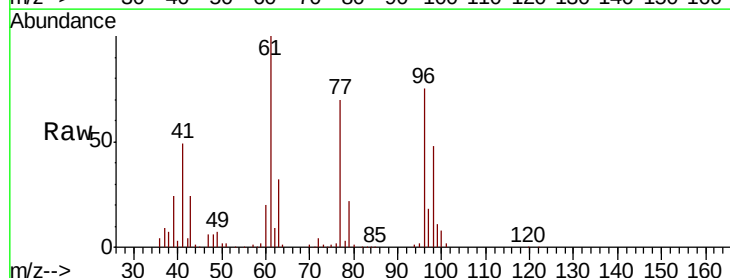
Acq: 20 Sep 2018 21:25

Tgt Ion: 77 Resp: 797612

Ion Ratio Lower Upper

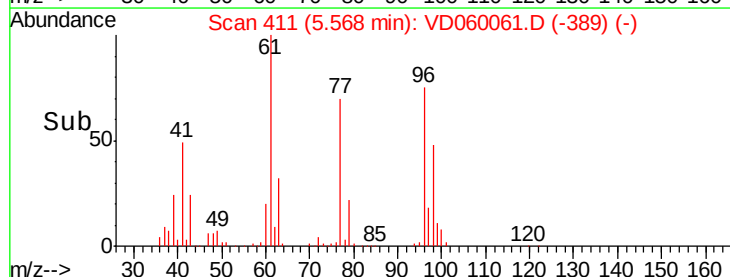
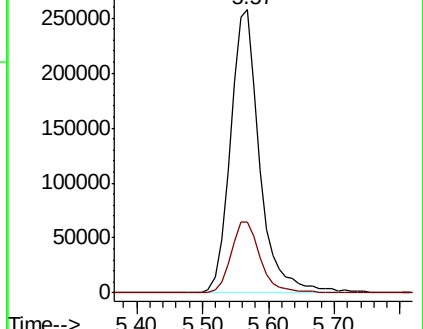
77 100

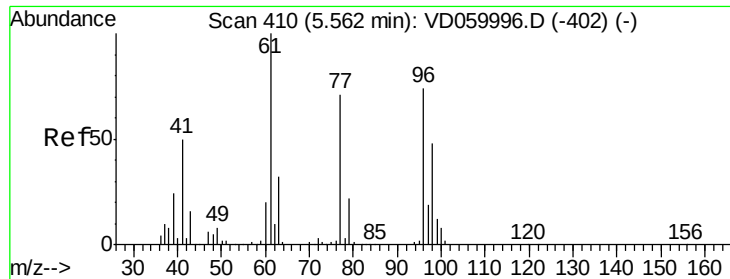
97 25.3 12.7 38.1



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: 57.59 ug/l

RT: 5.57 min Scan# 411

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-061MSD

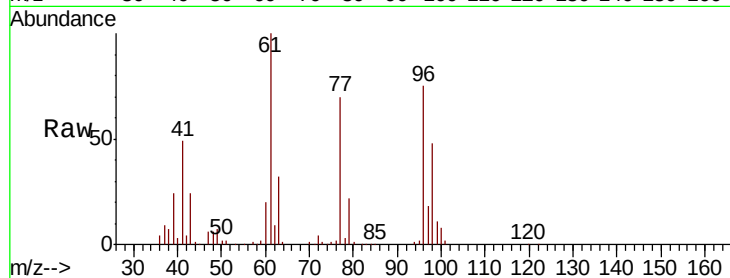
Tot Ion: 96 Resp: 724065

Ion Ratio Lower Upper

96 100

61 132.9 0.0 269.6

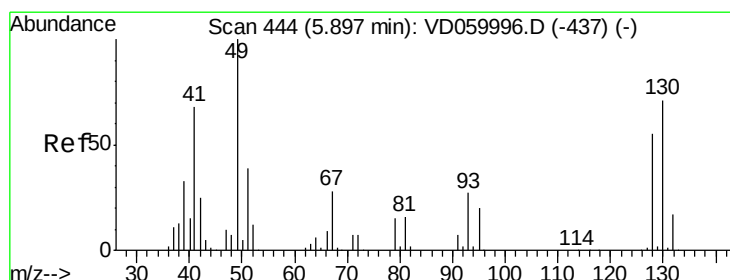
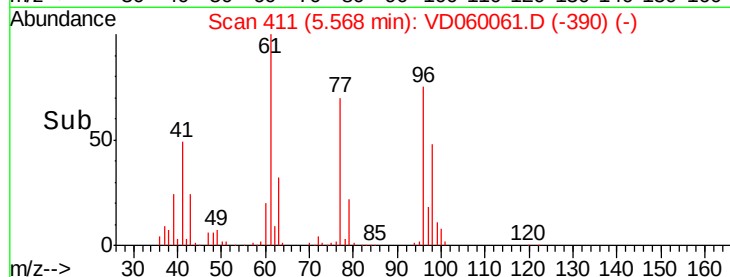
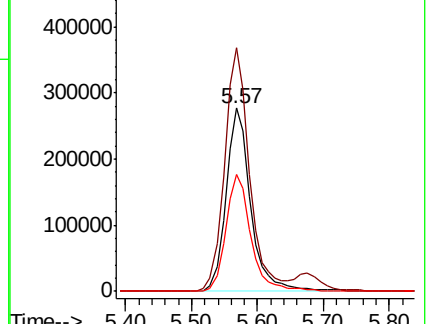
98 63.8 0.0 128.4



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#28

Bromochloromethane

Concen: 58.42 ug/l

RT: 5.90 min Scan# 445

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

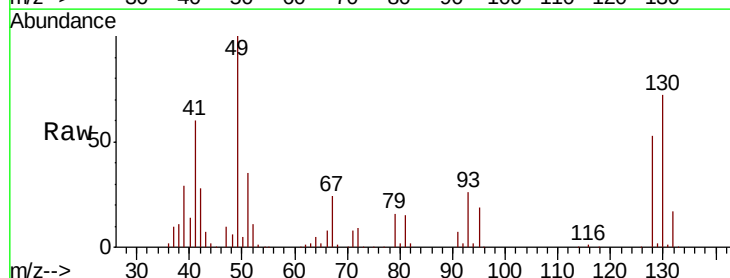
Tgt Ion: 49 Resp: 555262

Ion Ratio Lower Upper

49 100

129 1.8 0.0 3.6

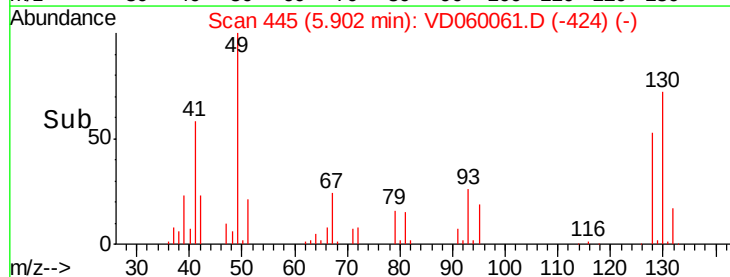
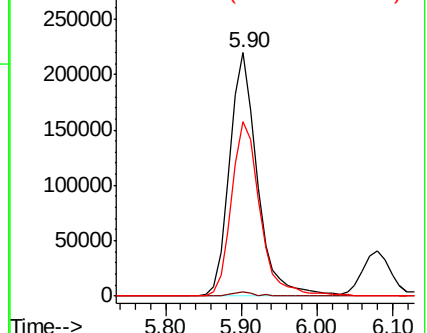
130 71.8 57.1 85.7

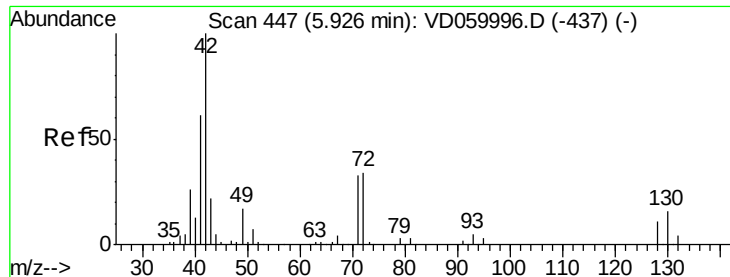


Abundance Ion 48.90 (48.60 to 49.60): VDC

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 266.23 ug/l

RT: 5.93 min Scan# 448

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-061MSD

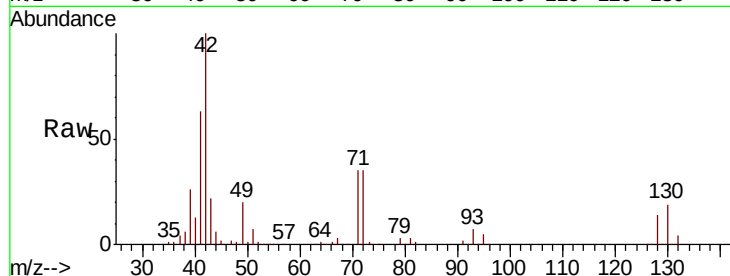
Tot Ion: 42 Resp: 645738

Ion Ratio Lower Upper

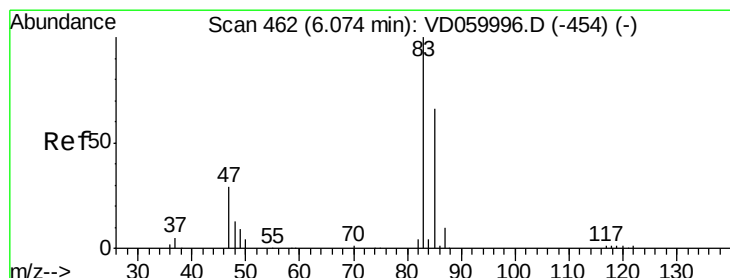
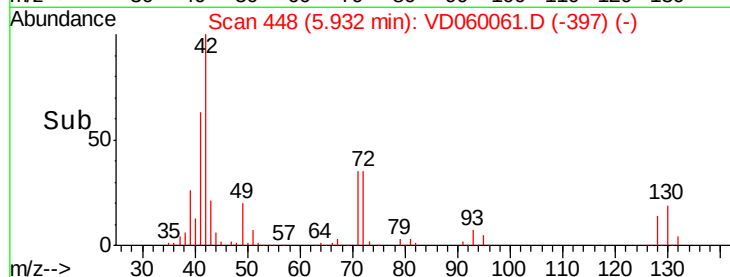
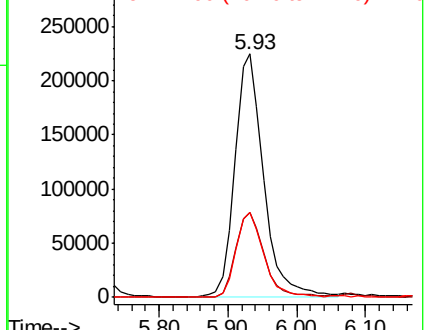
42 100

72 34.4 26.9 40.3

71 34.0 26.2 39.4



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



#30

Chloroform

Concen: 55.87 ug/l

RT: 6.08 min Scan# 463

Delta R.T. 0.01 min

Lab File: VD060061.D

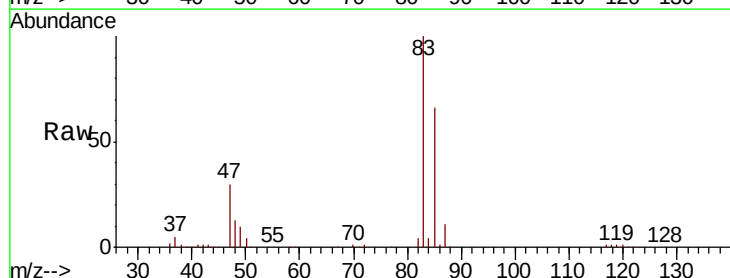
Acq: 20 Sep 2018 21:25

Tgt Ion: 83 Resp: 1120319

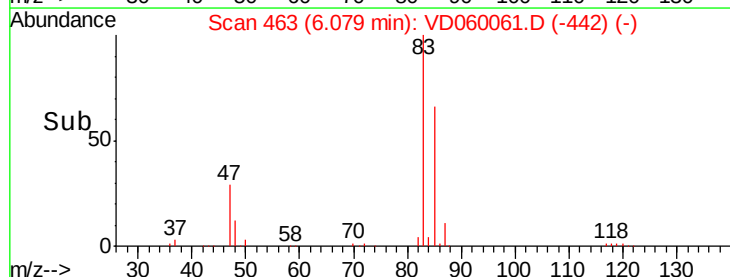
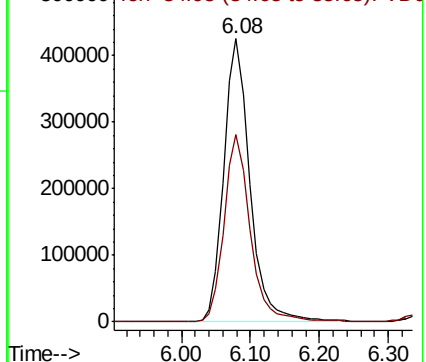
Ion Ratio Lower Upper

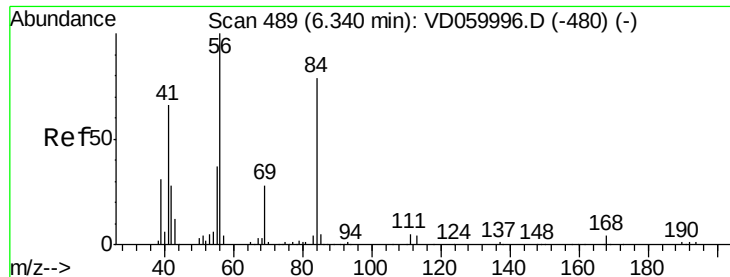
83 100

85 66.1 52.6 78.8



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

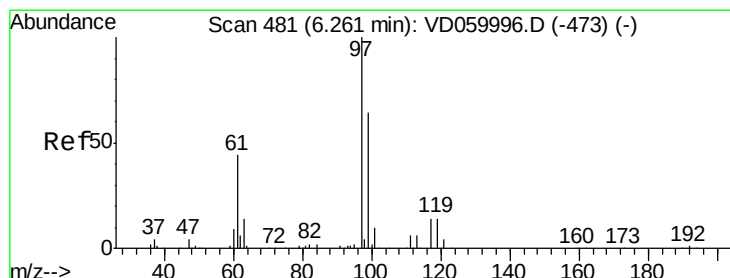
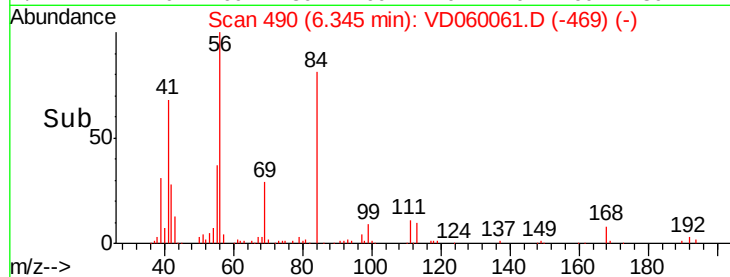
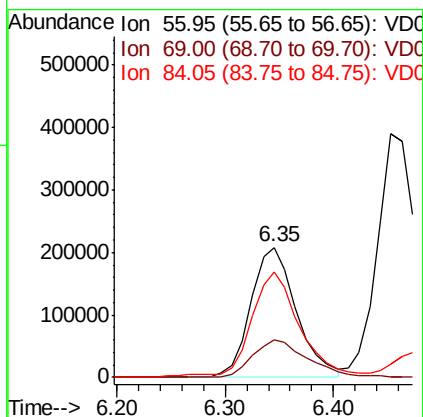
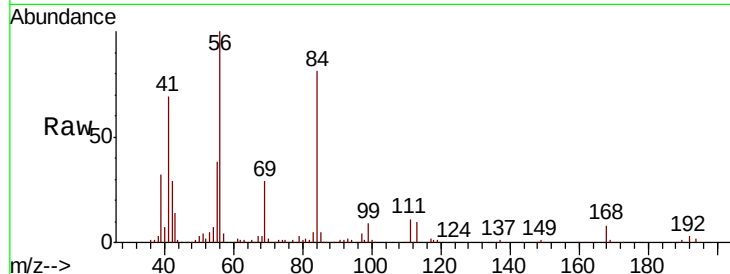




#31
Cyclohexane
Concen: 31.64 ug/l
RT: 6.35 min Scan# 490
Delta R.T. 0.01 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

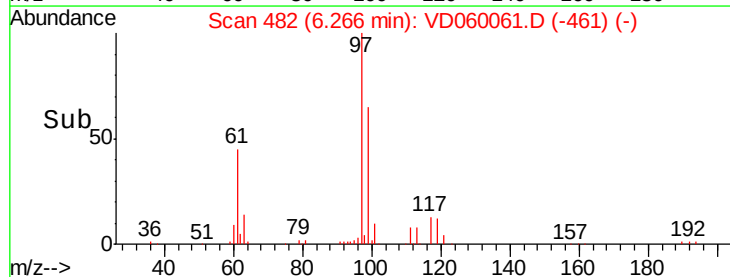
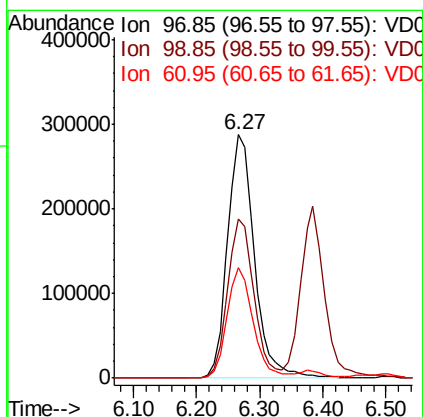
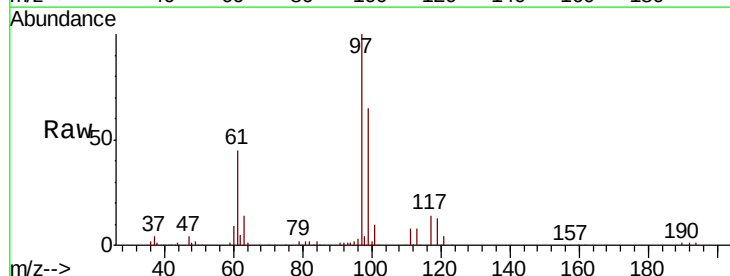
Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-NW-061MSD

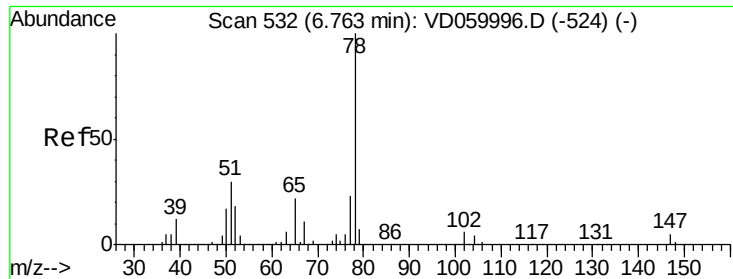
Tot Ion: 56 Resp: 609990
Ion Ratio Lower Upper
56 100
69 29.1 22.7 34.1
84 81.2 64.0 96.0



#32
1,1,1-Trichloroethane
Concen: 51.04 ug/l
RT: 6.27 min Scan# 482
Delta R.T. 0.01 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Tgt Ion: 97 Resp: 848821
Ion Ratio Lower Upper
97 100
99 65.4 51.3 76.9
61 45.4 35.5 53.3

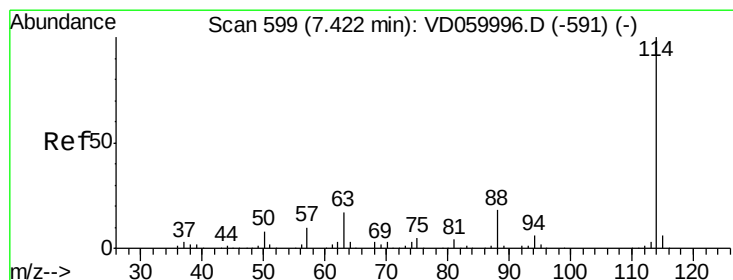
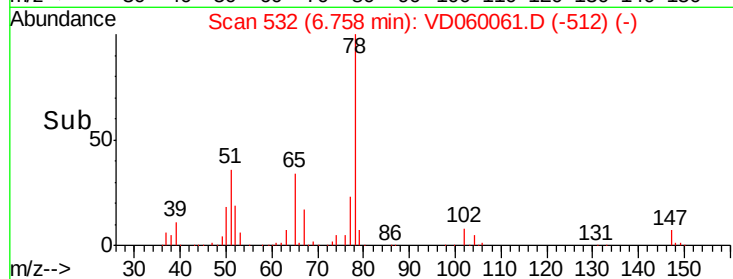
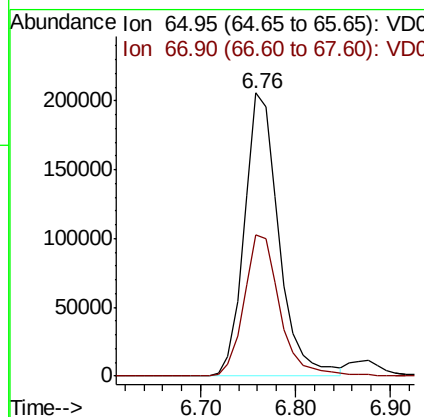
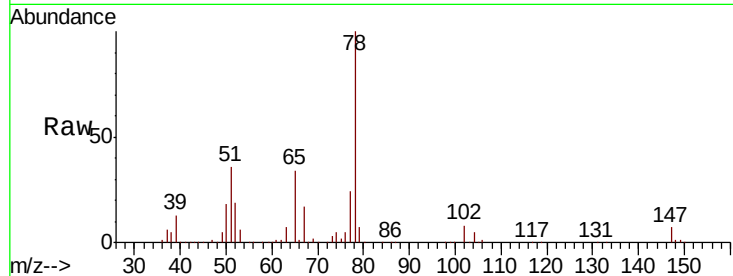




#33
 1,2-Dichloroethane-d4
 Concen: 51.04 ug/l
 RT: 6.76 min Scan# 532
 Delta R.T. -0.00 min
 Lab File: VD060061.D
 Acq: 20 Sep 2018 21:25

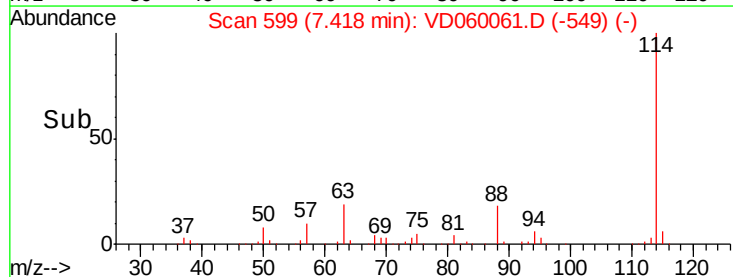
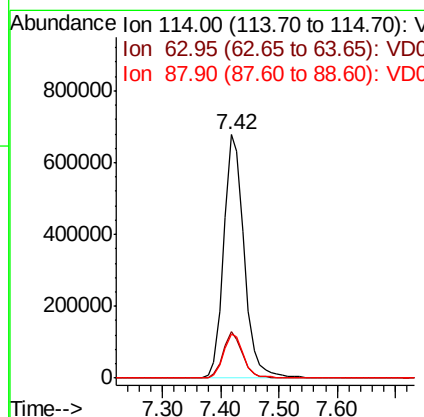
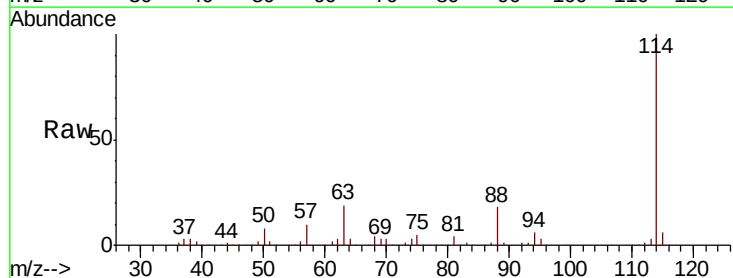
Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-S-NW-061MSD

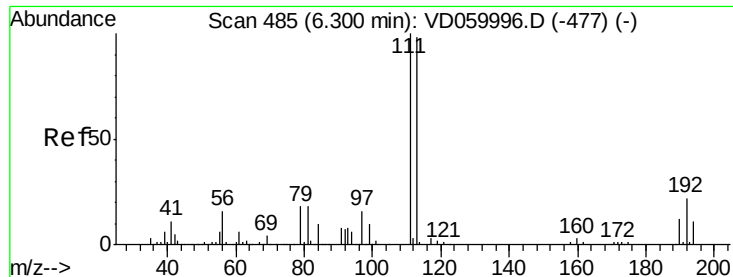
Tot Ion: 65 Resp: 516828
 Ion Ratio Lower Upper
 65 100
 67 50.1 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 7.42 min Scan# 599
 Delta R.T. -0.00 min
 Lab File: VD060061.D
 Acq: 20 Sep 2018 21:25

Tgt Ion: 114 Resp: 1646416
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 34.4
 88 18.1 0.0 35.8

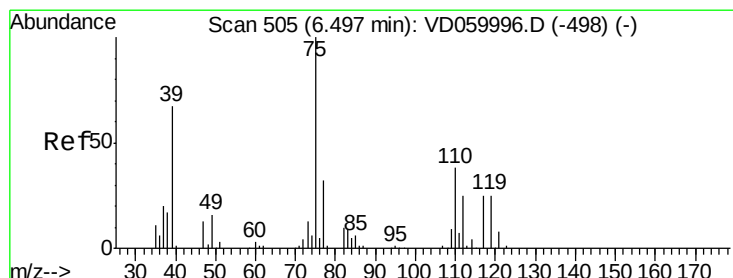
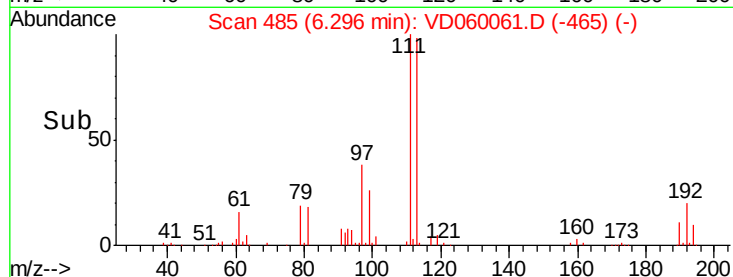
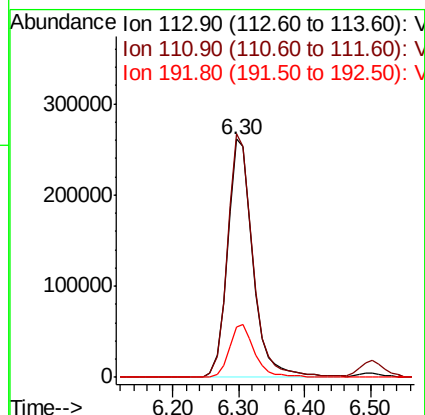
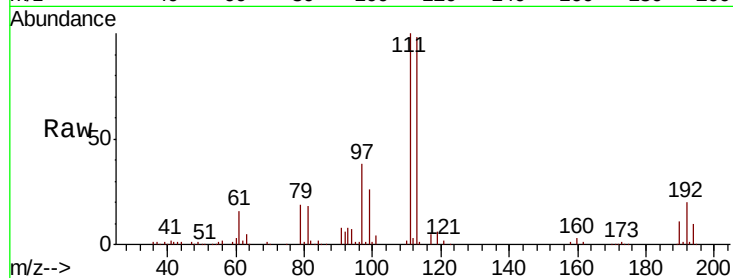




#35
 Dibromofluoromethane
 Concen: 50.00 ug/l
 RT: 6.30 min Scan# 485
 Delta R.T. -0.00 min
 Lab File: VD060061.D
 Acq: 20 Sep 2018 21:25

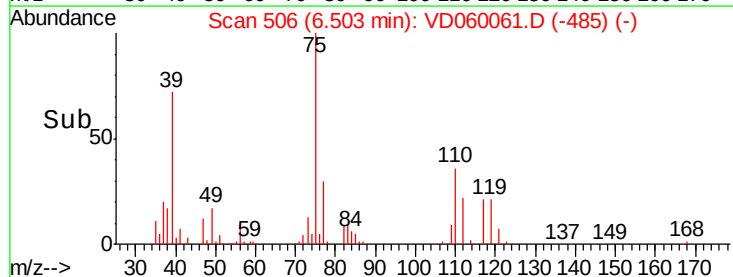
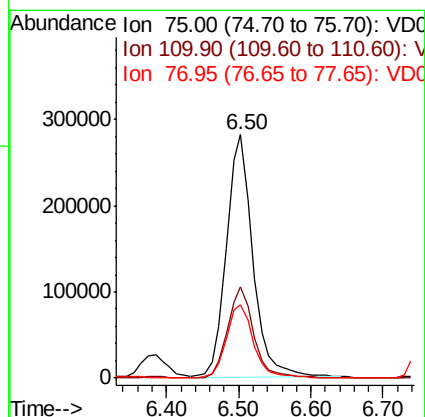
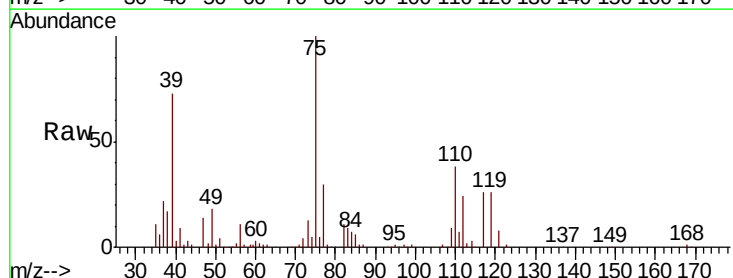
Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-S-NW-061MSD

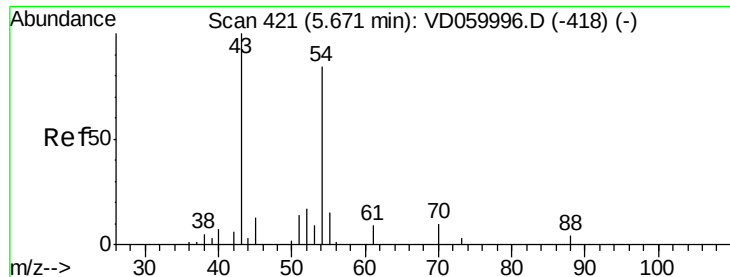
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.3	121.9
192	20.9	18.1	27.1



#36
 1,1-Dichloropropene
 Concen: 43.50 ug/l
 RT: 6.50 min Scan# 506
 Delta R.T. 0.01 min
 Lab File: VD060061.D
 Acq: 20 Sep 2018 21:25

Tgt Ion	Ratio	Lower	Upper
75	100		
110	37.6	18.9	56.9
77	30.2	25.3	37.9

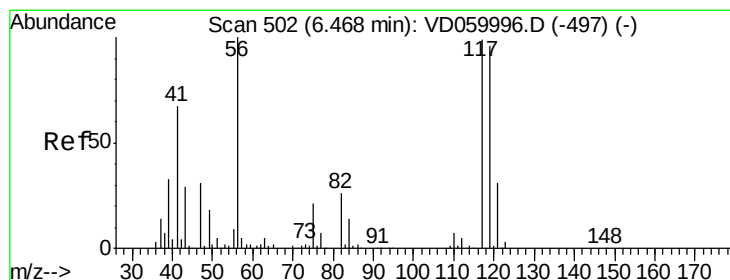
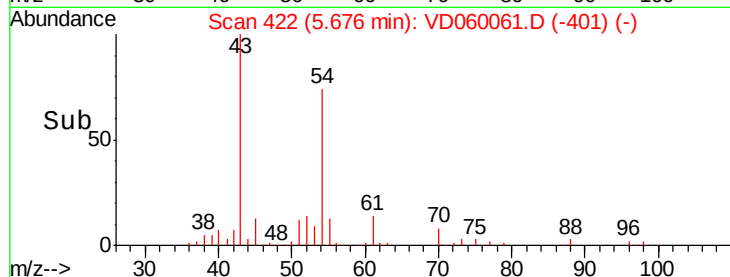
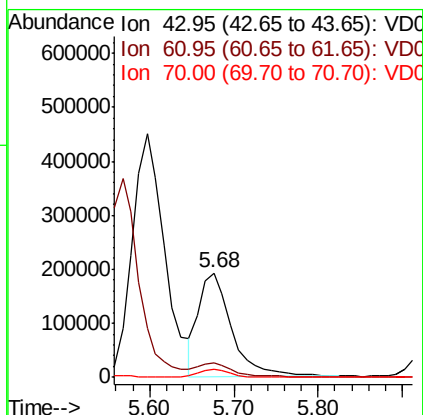
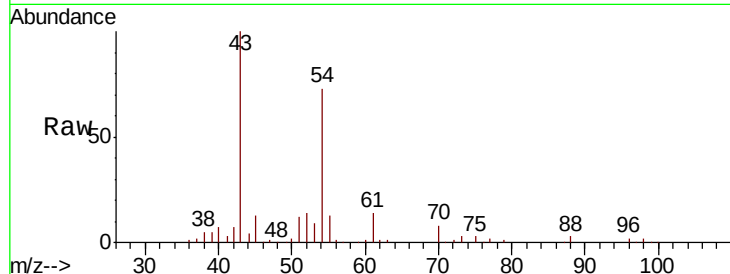




#37
Ethyl Acetate
Concen: 45.96 ug/l
RT: 5.68 min Scan# 422
Delta R.T. 0.01 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

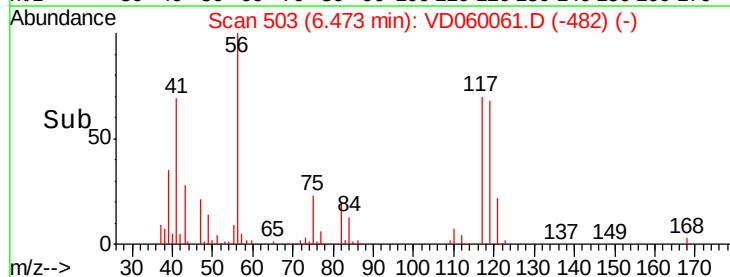
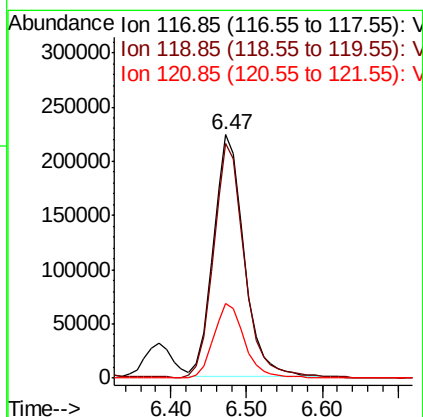
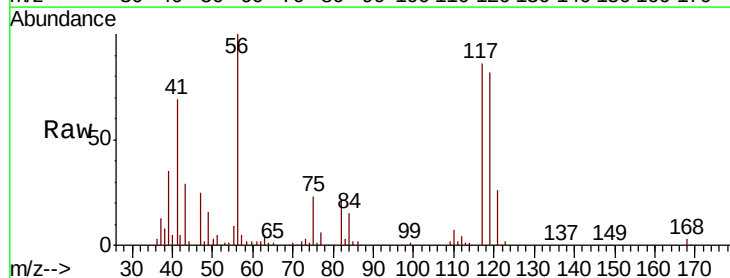
Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-NW-061MSD

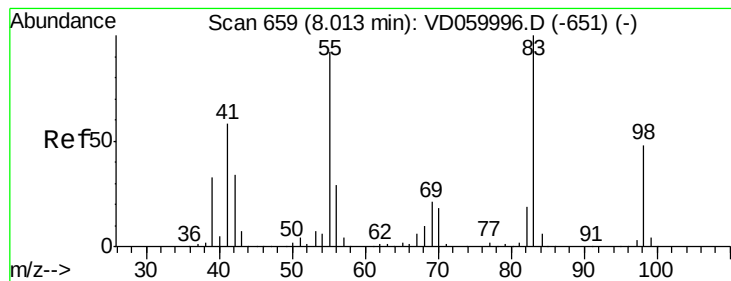
Tot Ion: 43 Resp: 516902
Ion Ratio Lower Upper
43 100
61 14.1 10.2 15.2
70 7.7 6.1 9.1



#38
Carbon Tetrachloride
Concen: 41.35 ug/l
RT: 6.47 min Scan# 503
Delta R.T. 0.01 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Tgt Ion: 117 Resp: 631350
Ion Ratio Lower Upper
117 100
119 96.2 76.7 115.1
121 30.7 24.9 37.3





#39

Methylvlcyclohexane

Concen: 21.29 ug/l

RT: 8.02 min Scan# 660

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-061MSD

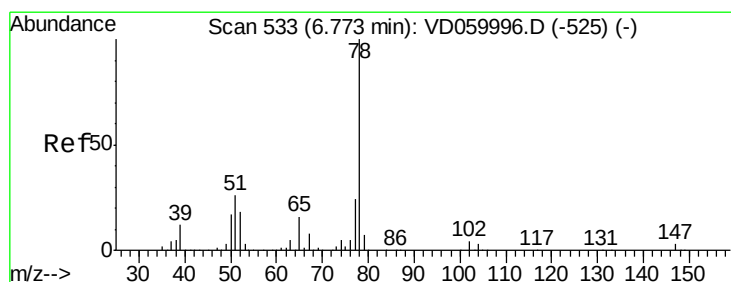
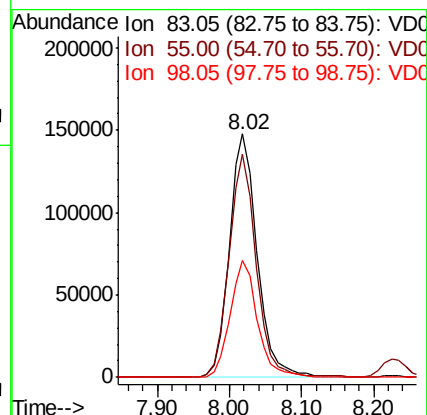
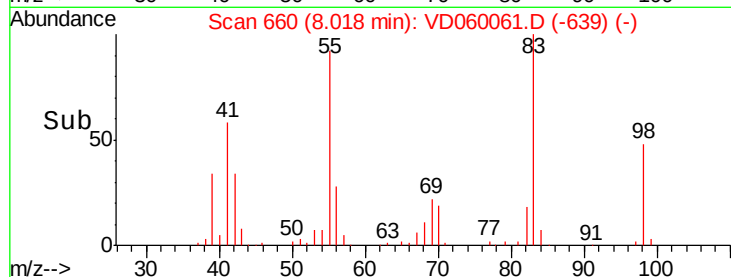
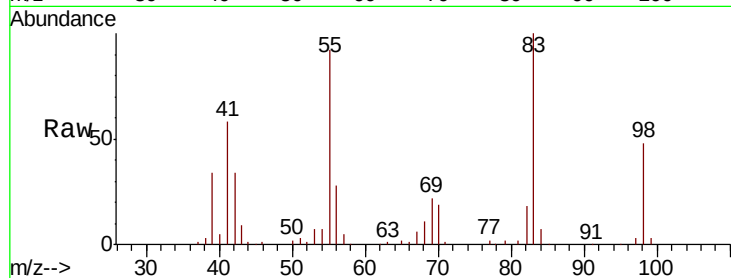
Tot Ion: 83 Resp: 393939

Ion Ratio Lower Upper

83 100

55 91.8 73.8 110.6

98 47.9 38.1 57.1



#40

Benzene

Concen: 50.84 ug/l

RT: 6.77 min Scan# 533

Delta R.T. -0.00 min

Lab File: VD060061.D

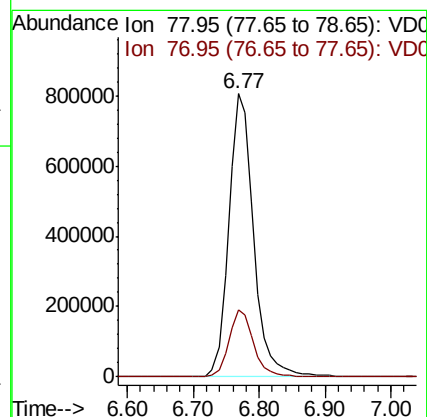
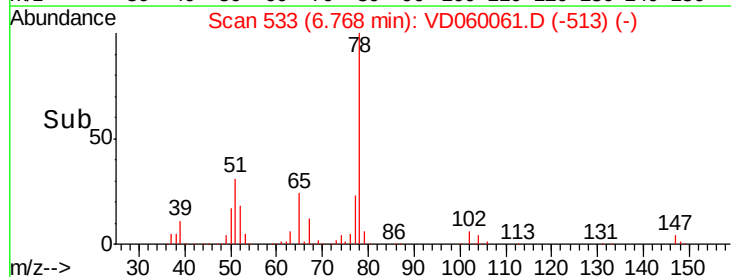
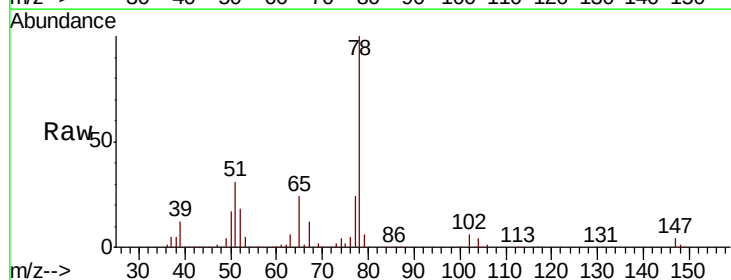
Acq: 20 Sep 2018 21:25

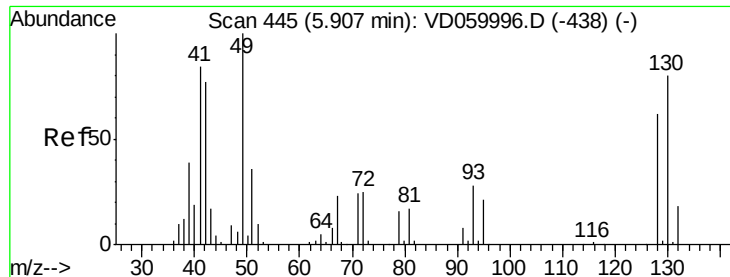
Tgt Ion: 78 Resp: 2119059

Ion Ratio Lower Upper

78 100

77 23.7 19.0 28.4





#41

Methacrylonitrile

Concen: 113.25 ug/l

RT: 5.92 min Scan# 447

Delta R.T. 0.02 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-061MSD

Tot Ion: 41 Resp: 667126

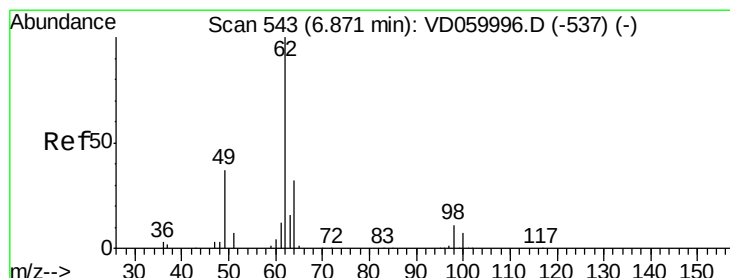
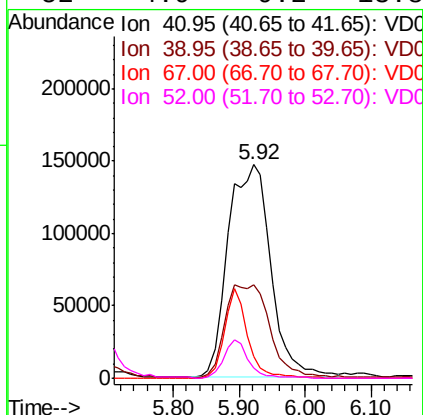
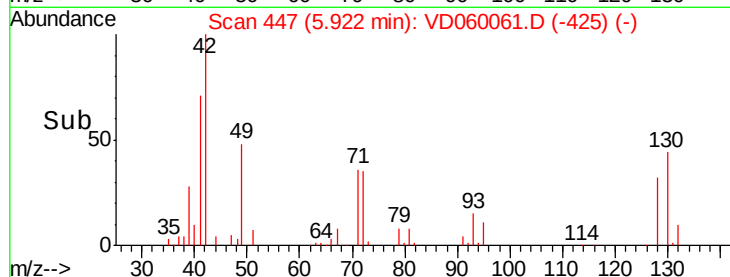
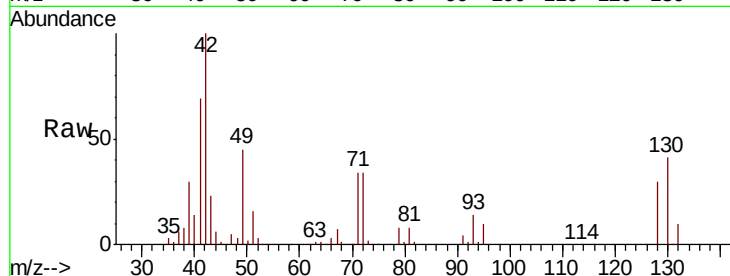
Ion Ratio Lower Upper

41 100

39 43.8 37.5 56.3

67 10.3 21.5 32.3#

52 4.9 9.2 13.8#



#42

1,2-Dichloroethane

Concen: 51.81 ug/l

RT: 6.88 min Scan# 544

Delta R.T. 0.01 min

Lab File: VD060061.D

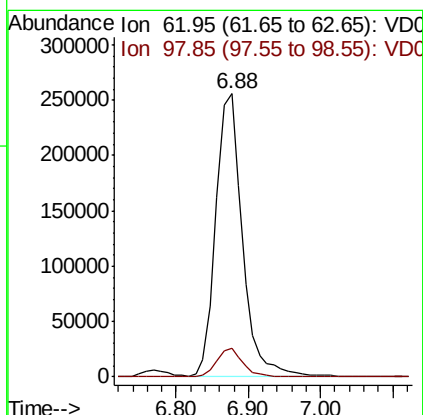
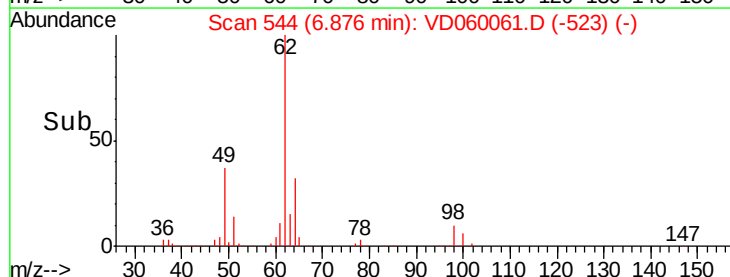
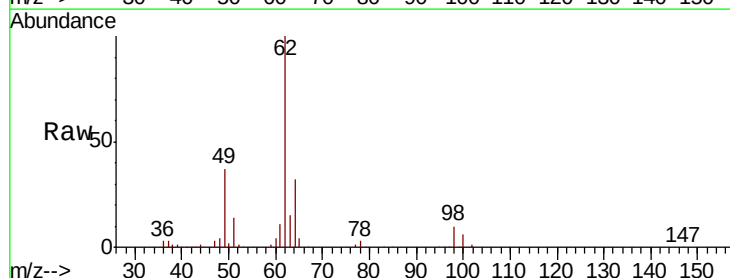
Acq: 20 Sep 2018 21:25

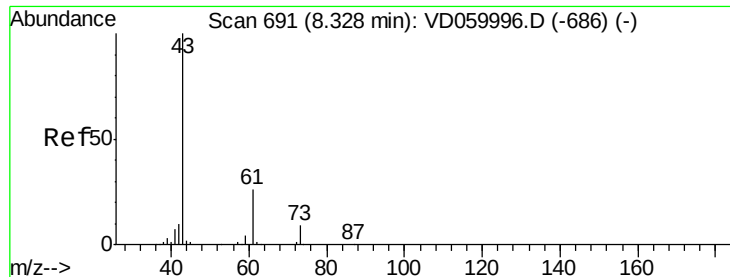
Tgt Ion: 62 Resp: 648464

Ion Ratio Lower Upper

62 100

98 10.2 0.0 21.4





#43

Isopropyl Acetate

Concen: 46.42 ug/l

RT: 8.33 min Scan# 692

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-061MSD

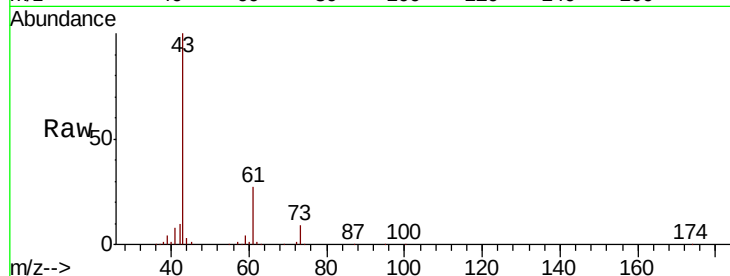
Tot Ion: 43 Resp: 698940

Ion Ratio Lower Upper

43 100

61 27.4 21.0 31.6

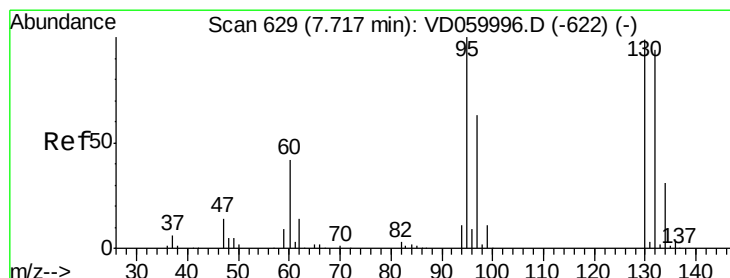
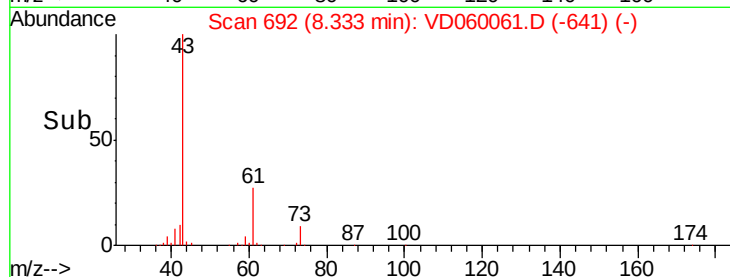
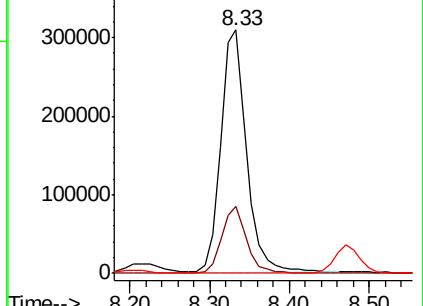
87 0.3 0.2 0.2#



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: 46.59 ug/l

RT: 7.72 min Scan# 630

Delta R.T. 0.01 min

Lab File: VD060061.D

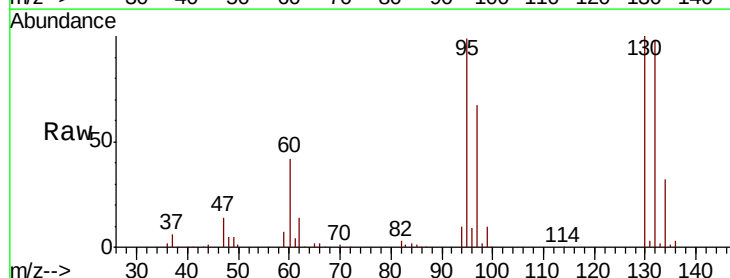
Acq: 20 Sep 2018 21:25

Tgt Ion:130 Resp: 599969

Ion Ratio Lower Upper

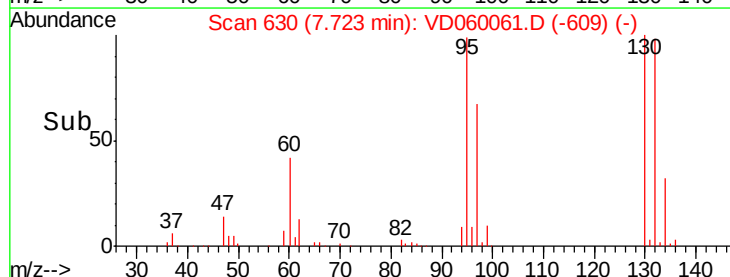
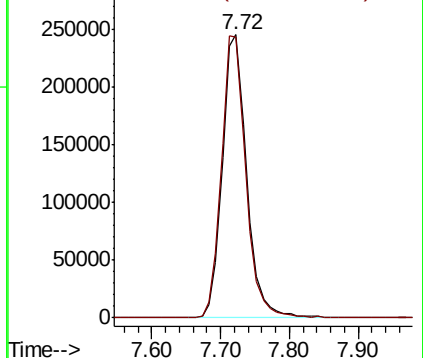
130 100

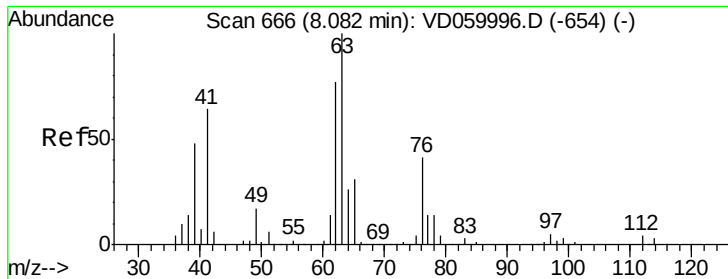
95 99.4 0.0 202.0



Abundance Ion 129.80 (129.50 to 130.50): VDC

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 51.30 ug/l

RT: 8.09 min Scan# 667

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

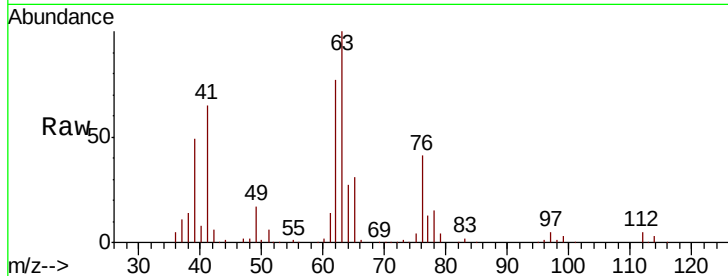
RA-091918-S-NW-061MSD

Tot Ion: 63 Resp: 571748

Ion Ratio Lower Upper

63 100

65 30.7 24.6 37.0



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

8.09

250000

200000

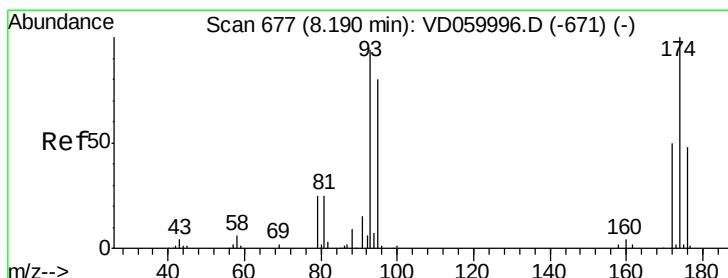
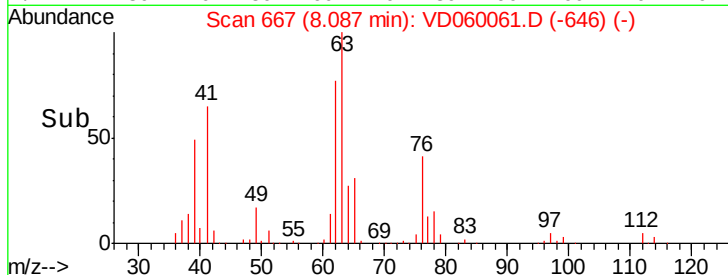
150000

100000

50000

0

Time-->



#46

Dibromomethane

Concen: 52.83 ug/l

RT: 8.20 min Scan# 678

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

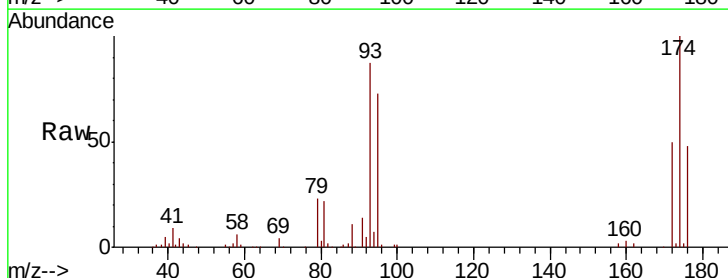
Tgt Ion: 93 Resp: 384199

Ion Ratio Lower Upper

93 100

95 84.1 68.0 102.0

174 115.4 85.4 128.2



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

8.20

250000

200000

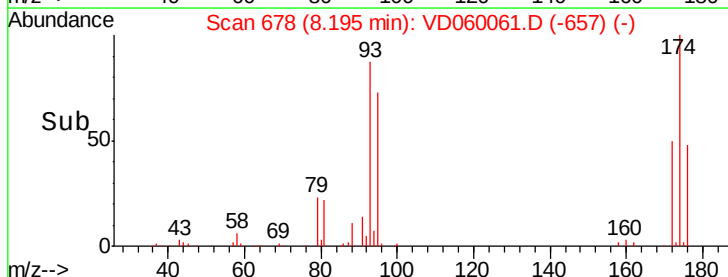
150000

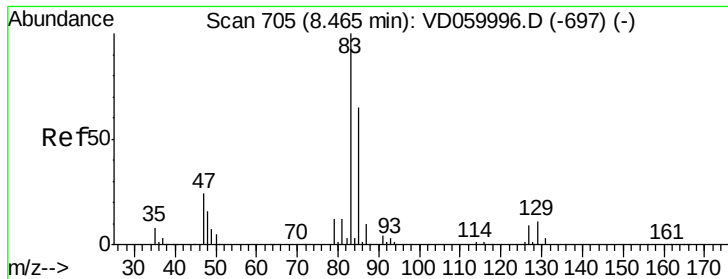
100000

50000

0

Time-->





#47

Bromodichloromethane

Concen: 50.76 ug/l

RT: 8.47 min Scan# 706

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-061MSD

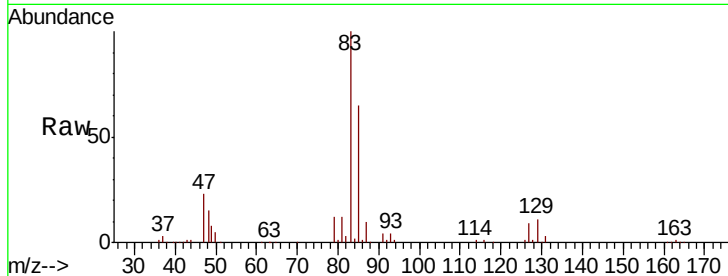
Tot Ion: 83 Resp: 795867

Ion Ratio Lower Upper

83 100

85 65.1 51.9 77.9

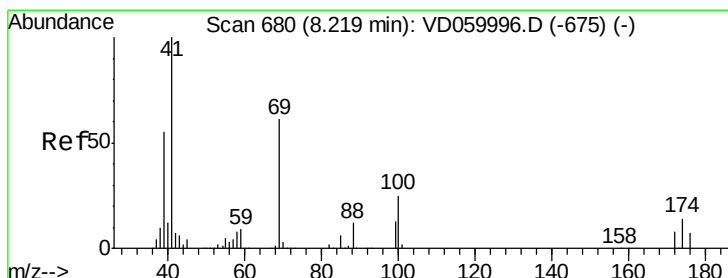
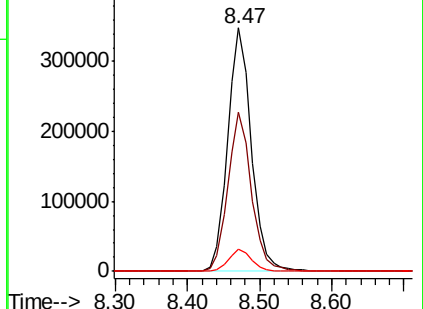
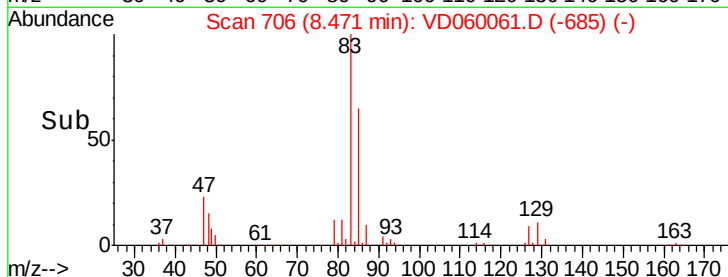
127 9.1 6.8 10.2



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: 54.63 ug/l

RT: 8.22 min Scan# 681

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

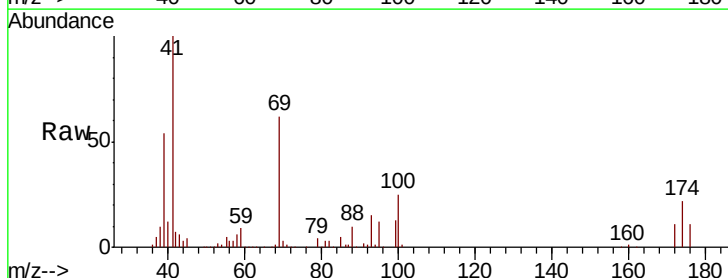
Tgt Ion: 41 Resp: 458154

Ion Ratio Lower Upper

41 100

69 62.3 48.3 72.5

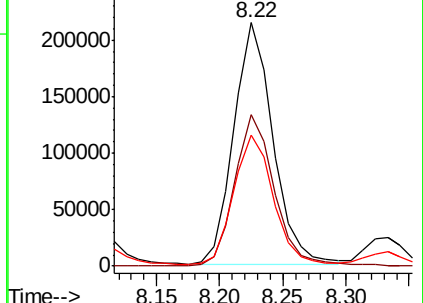
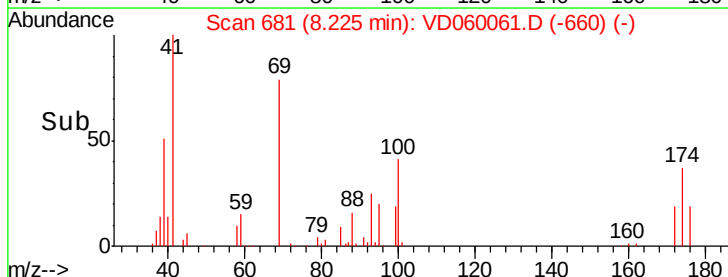
39 53.6 44.1 66.1

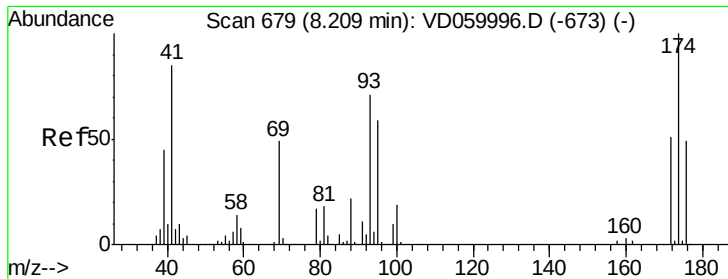


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 38.95 (38.65 to 39.65): VDC





#49

1,4-Dioxane

Concen: 1068.77 ug/l

RT: 8.21 min Scan# 680

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-061MSD

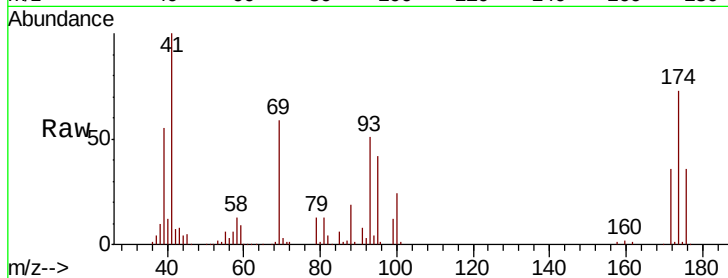
Tot Ion: 88 Resp: 89026

Ion Ratio Lower Upper

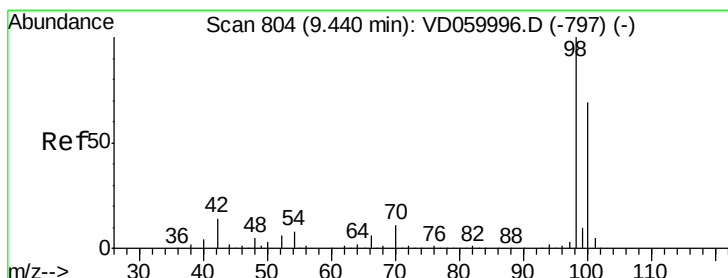
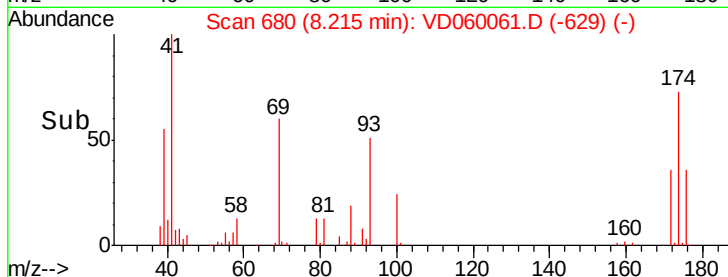
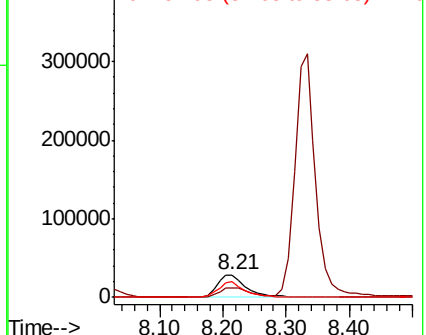
88 100

43 43.1 36.2 54.2

58 67.2 51.0 76.6



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: 1068.77 ug/l

RT: 9.44 min Scan# 804

Delta R.T. -0.00 min

Lab File: VD060061.D

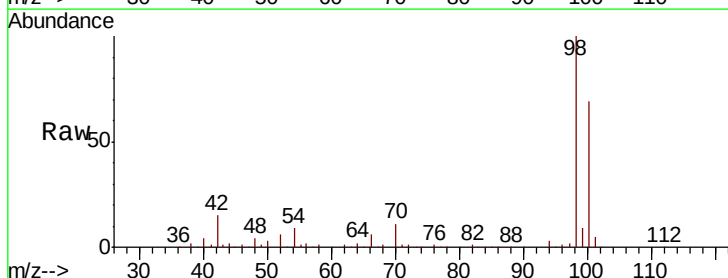
Acq: 20 Sep 2018 21:25

Tgt Ion: 98 Resp: 1632649

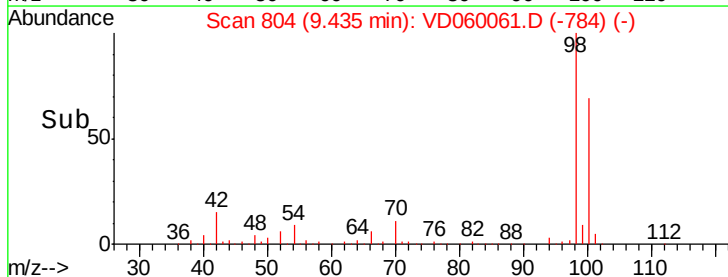
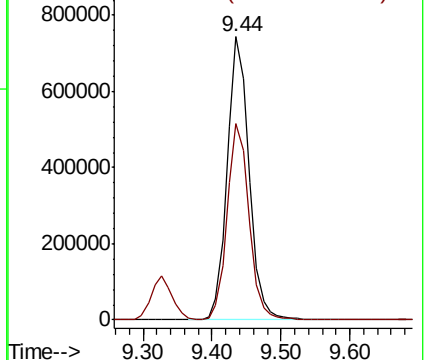
Ion Ratio Lower Upper

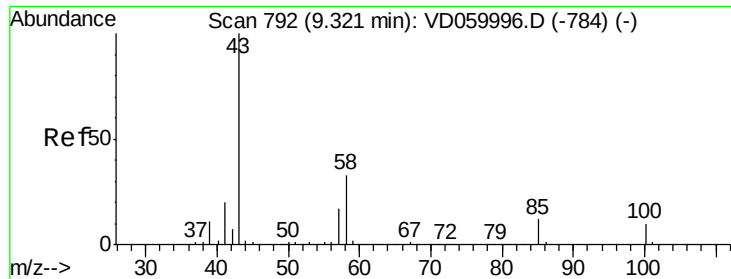
98 100

100 69.5 55.8 83.6



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: 243.07 ug/l

RT: 9.33 min Scan# 793

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

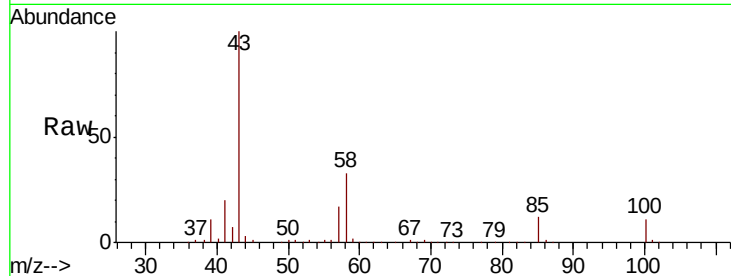
RA-091918-S-NW-061MSD

Tot Ion: 43 Resp: 2417071

Ion Ratio Lower Upper

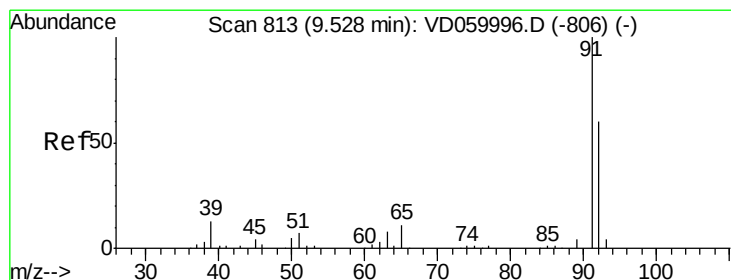
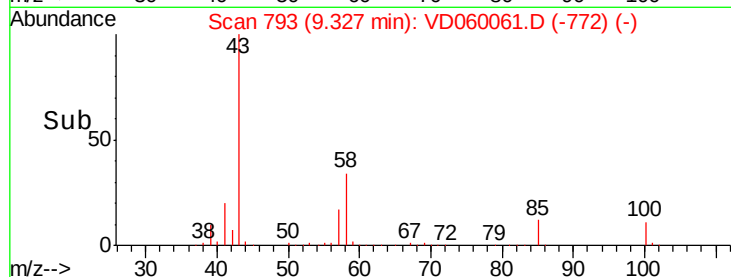
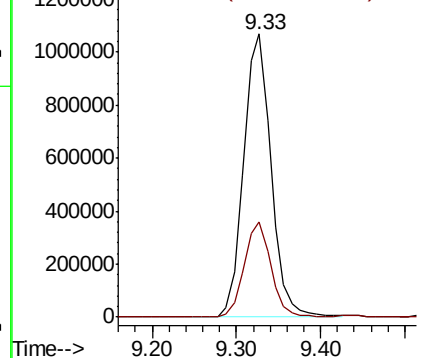
43 100

58 33.5 26.4 39.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 44.71 ug/l

RT: 9.53 min Scan# 814

Delta R.T. 0.01 min

Lab File: VD060061.D

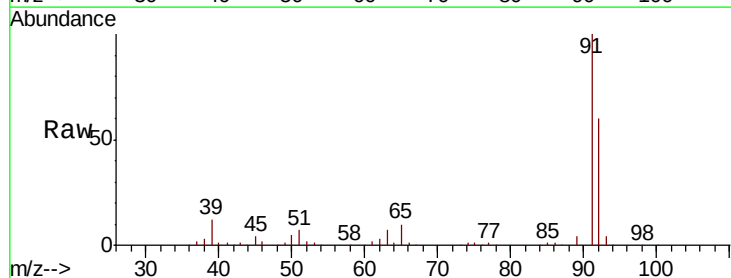
Acq: 20 Sep 2018 21:25

Tgt Ion: 92 Resp: 1194547

Ion Ratio Lower Upper

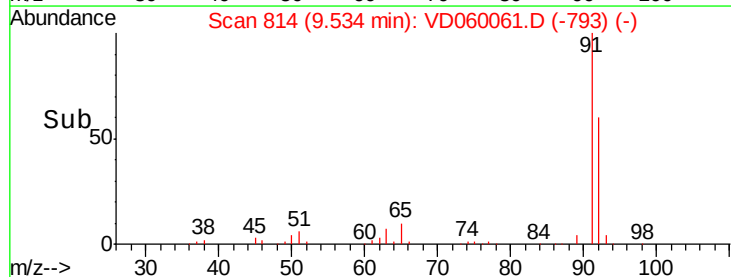
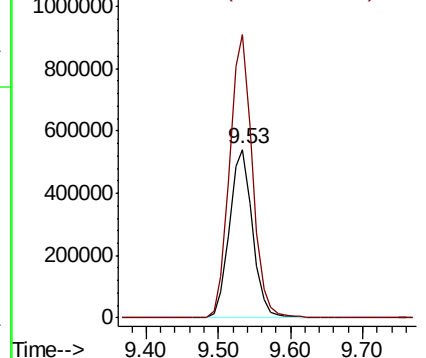
92 100

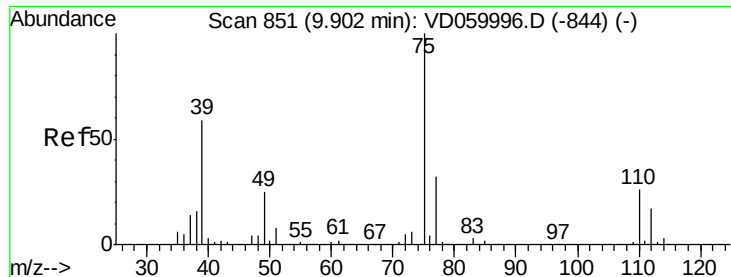
91 167.9 132.3 198.5



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#53

t-1,3-Dichloropropene

Concen: 48.58 ug/l

RT: 9.90 min Scan# 851

Delta R.T. -0.00 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

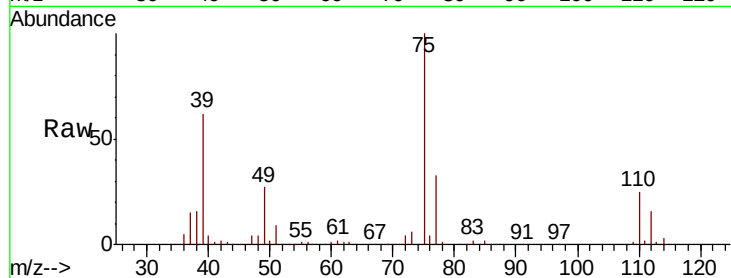
RA-091918-S-NW-061MSD

Tot Ion: 75 Resp: 710400

Ion Ratio Lower Upper

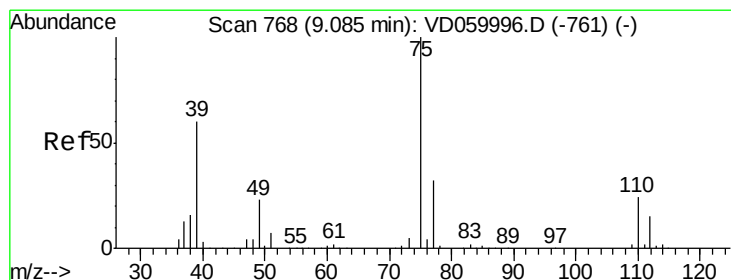
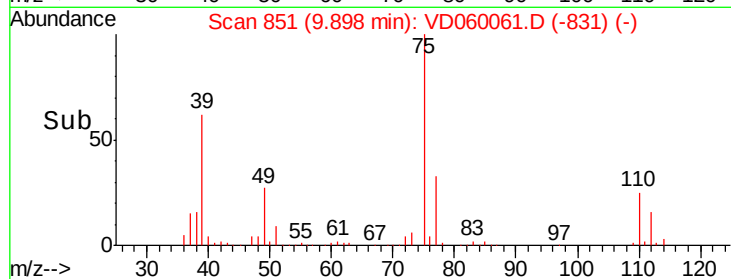
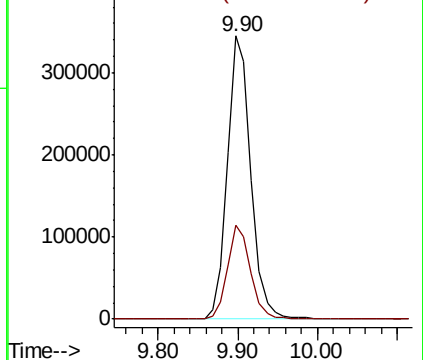
75 100

77 33.3 25.6 38.4



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#54

cis-1,3-Dichloropropene

Concen: 50.02 ug/l

RT: 9.08 min Scan# 768

Delta R.T. -0.00 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

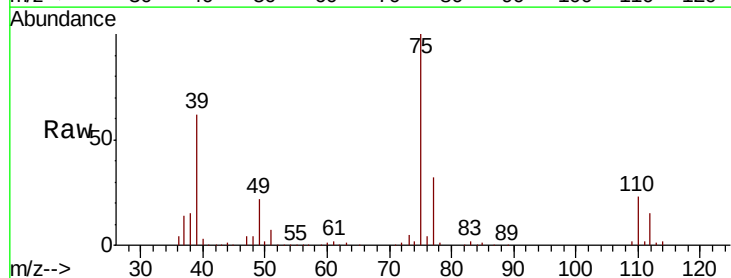
Tgt Ion: 75 Resp: 874043

Ion Ratio Lower Upper

75 100

77 31.8 25.5 38.3

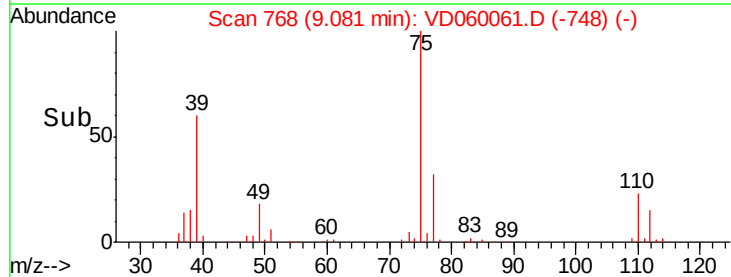
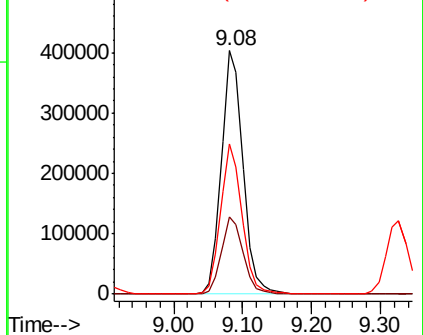
39 61.6 48.0 72.0

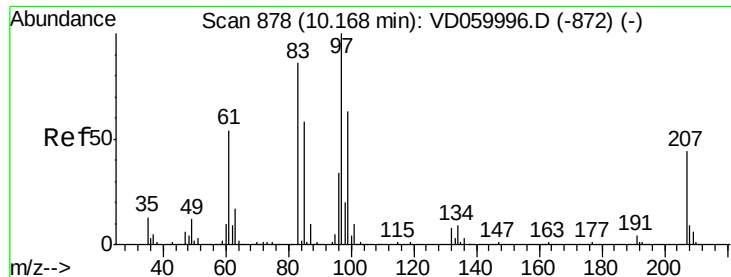


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC





#55

1,1,2-Trichloroethane

Concen: 47.73 ug/l

RT: 10.16 min Scan# 878

Delta R.T. -0.00 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-061MSD

Tot Ion: 97 Resp: 442818

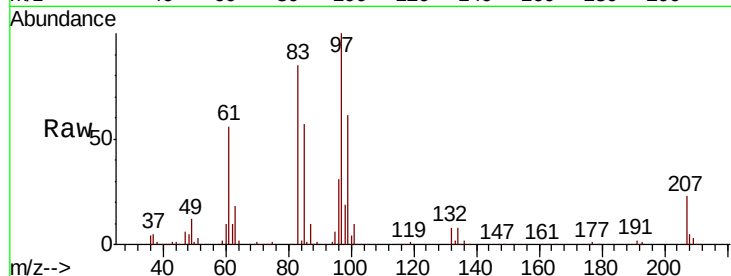
Ion Ratio Lower Upper

97 100

83 85.0 69.1 103.7

85 56.9 46.2 69.4

99 61.0 50.6 75.8

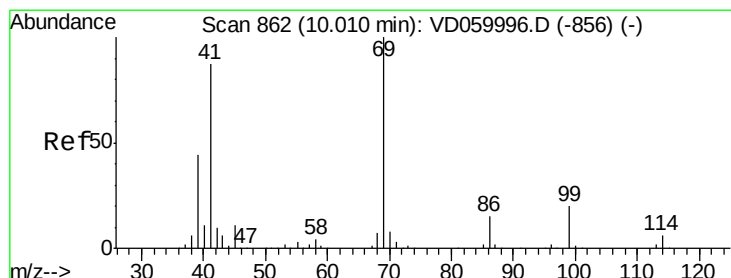
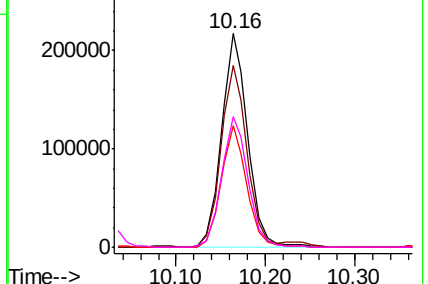
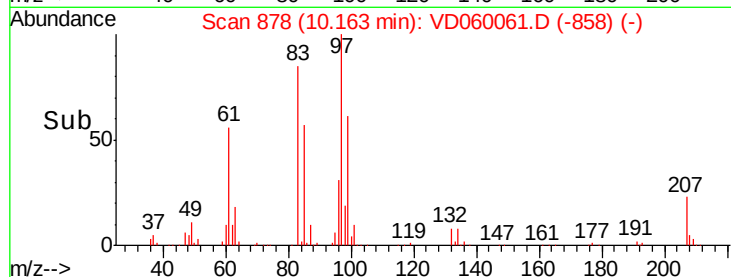


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC



#56

Ethyl methacrylate

Concen: 49.64 ug/l

RT: 10.02 min Scan# 863

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

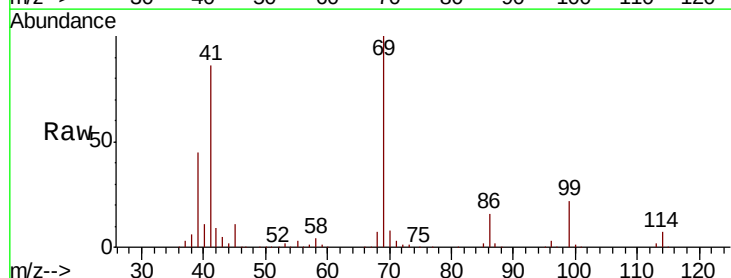
Tgt Ion: 69 Resp: 510784

Ion Ratio Lower Upper

69 100

41 85.9 70.1 105.1

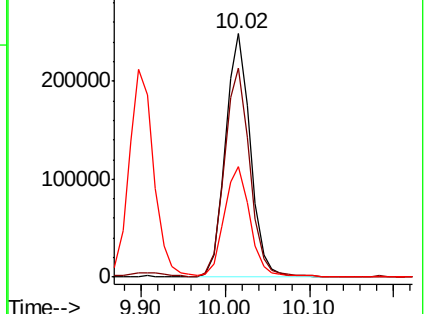
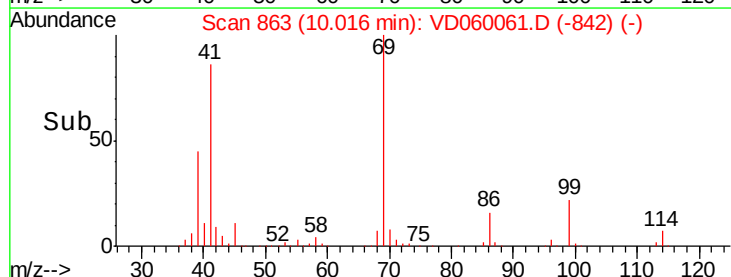
39 45.4 36.5 54.7

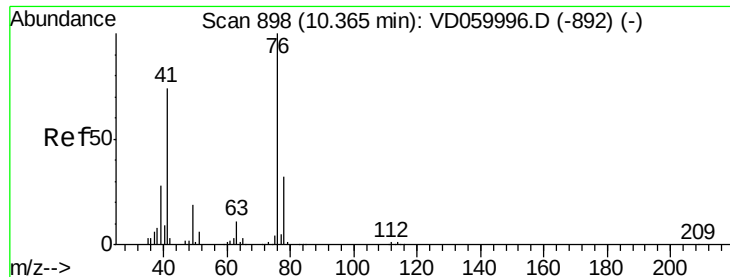


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 50.90 ug/l

RT: 10.37 min Scan# 899

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

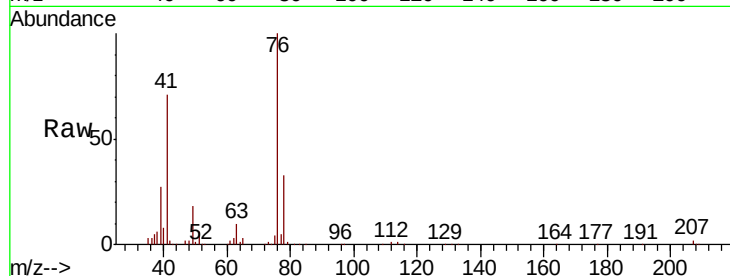
RA-091918-S-NW-061MSD

Tot Ion: 76 Resp: 697024

Ion Ratio Lower Upper

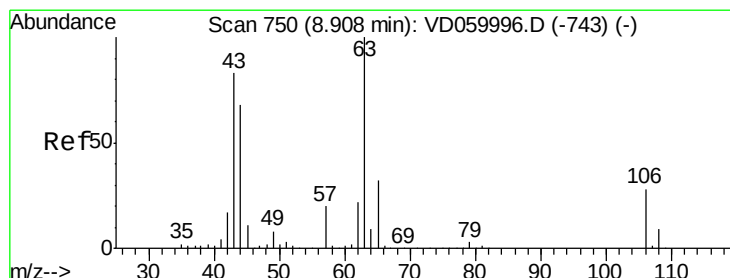
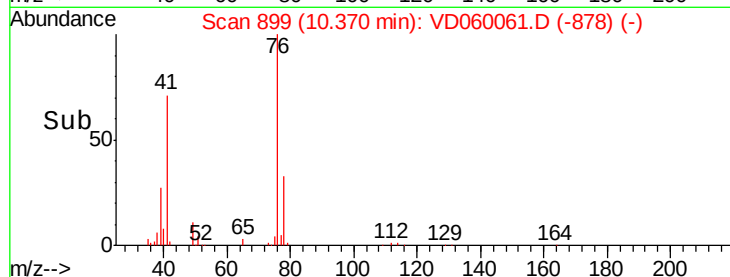
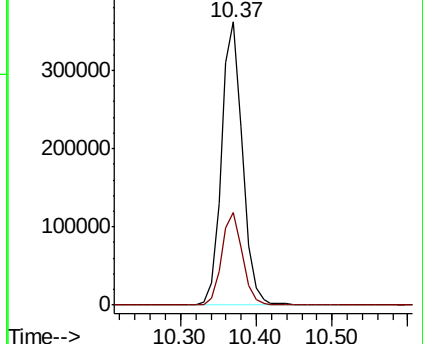
76 100

78 32.5 25.3 37.9



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: 276.64 ug/l

RT: 8.90 min Scan# 750

Delta R.T. -0.00 min

Lab File: VD060061.D

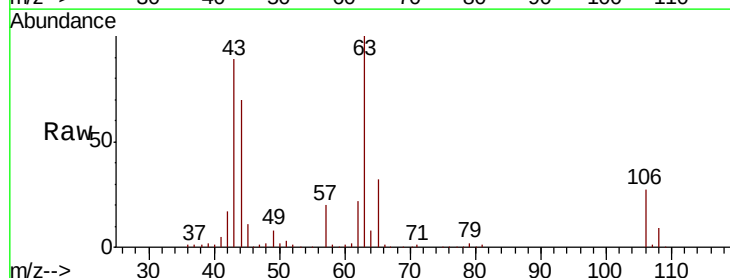
Acq: 20 Sep 2018 21:25

Tgt Ion: 63 Resp: 1374554

Ion Ratio Lower Upper

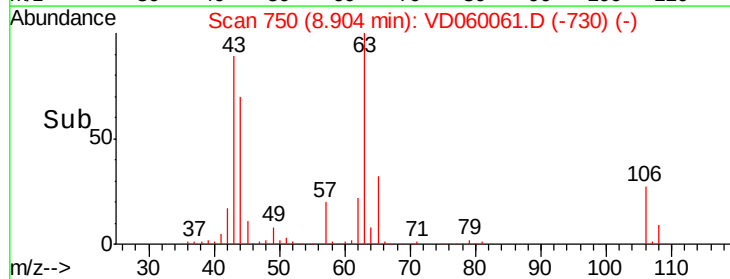
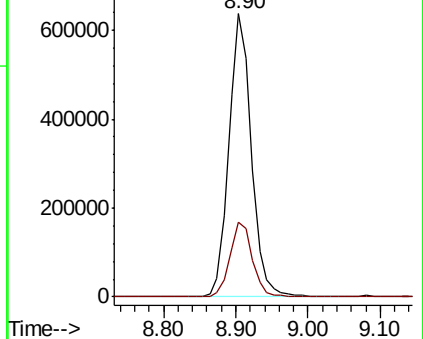
63 100

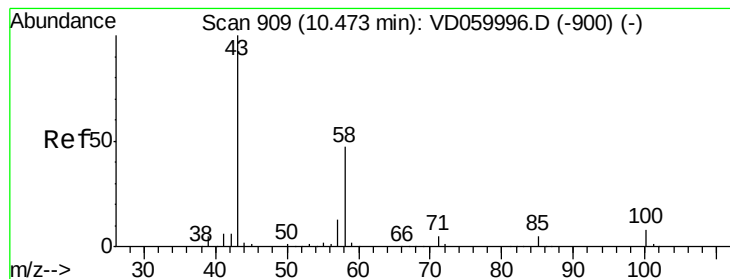
106 26.6 22.0 33.0



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): VDC





#59

2-Hexanone

Concen: 244.73 ug/l

RT: 10.48 min Scan# 910

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

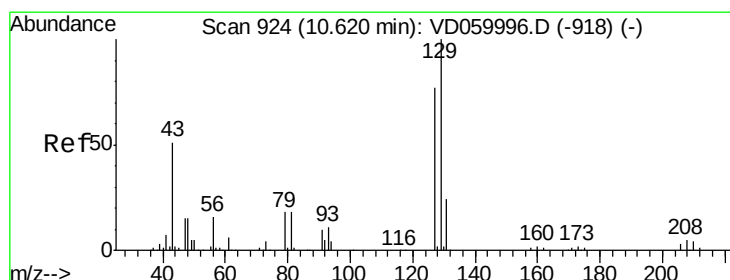
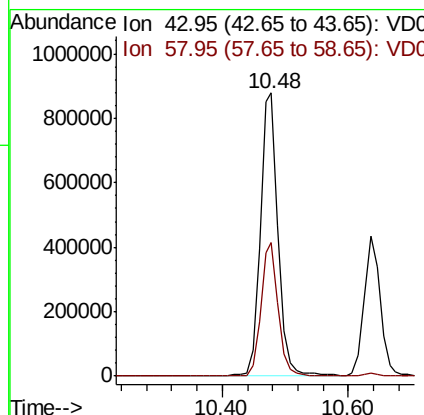
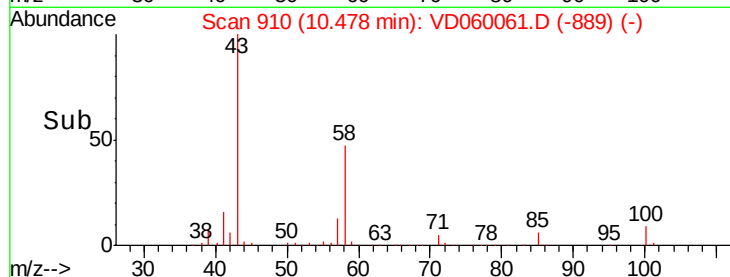
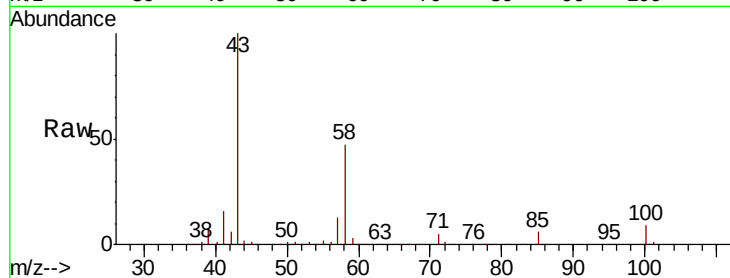
RA-091918-S-NW-061MSD

Tot Ion: 43 Resp: 1738336

Ion Ratio Lower Upper

43 100

58 47.4 23.4 70.0



#60

Dibromochloromethane

Concen: 47.99 ug/l

RT: 10.63 min Scan# 925

Delta R.T. 0.01 min

Lab File: VD060061.D

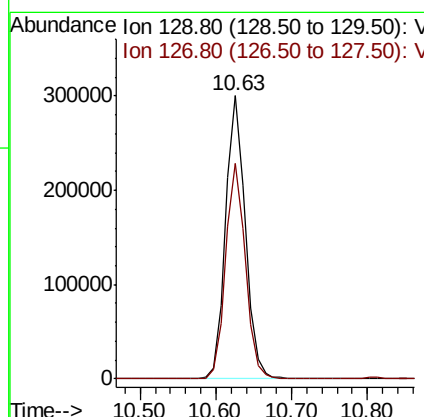
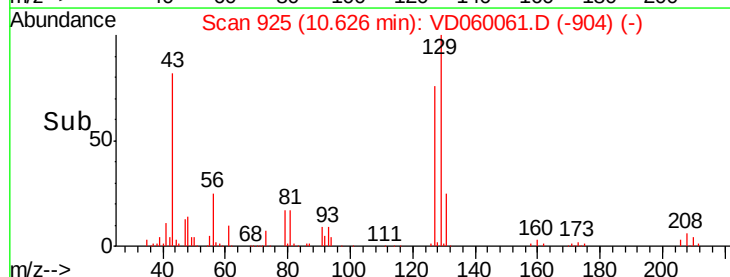
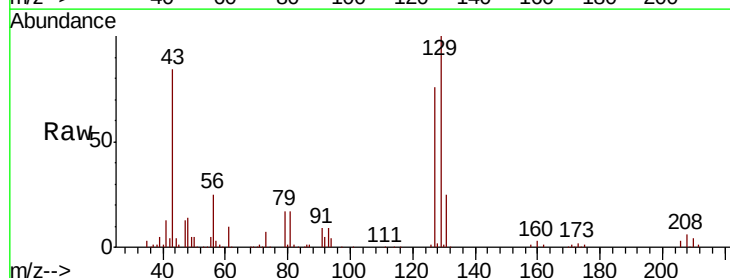
Acq: 20 Sep 2018 21:25

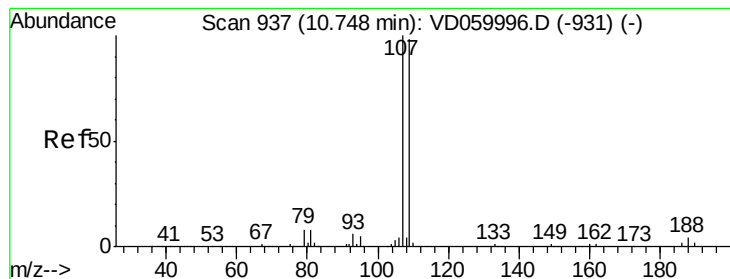
Tgt Ion:129 Resp: 541825

Ion Ratio Lower Upper

129 100

127 76.2 38.6 116.0





#61

1,2-Dibromoethane

Concen: 49.77 ug/l

RT: 10.74 min Scan# 937

Delta R.T. -0.00 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

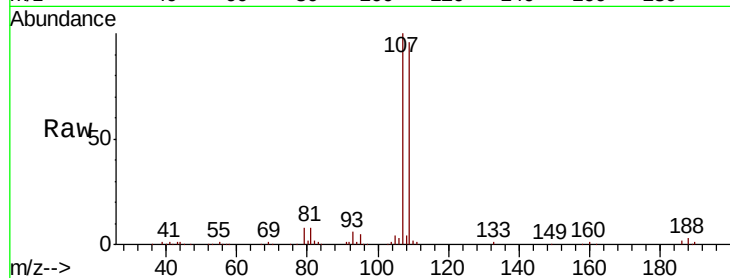
RA-091918-S-NW-061MSD

Tot Ion:107 Resp: 476660

Ion Ratio Lower Upper

107 100

109 95.7 78.2 117.2



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V

10.74

300000

250000

200000

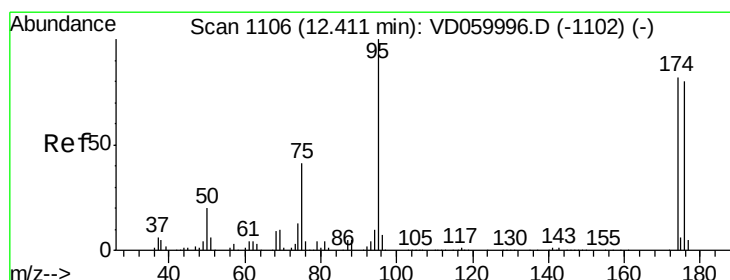
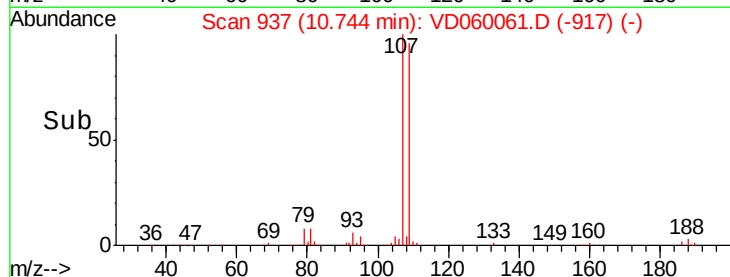
150000

100000

50000

0

Time--> 10.60 10.70 10.80 10.90



#62

4-Bromofluorobenzene

Concen: 49.77 ug/l

RT: 12.42 min Scan# 1107

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

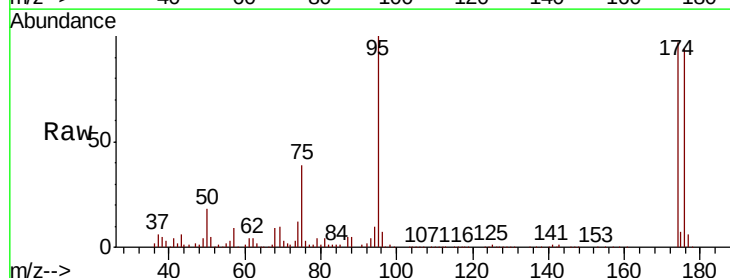
Tgt Ion: 95 Resp: 563174

Ion Ratio Lower Upper

95 100

174 96.7 0.0 165.0

176 94.0 0.0 160.2



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

12.42

500000

400000

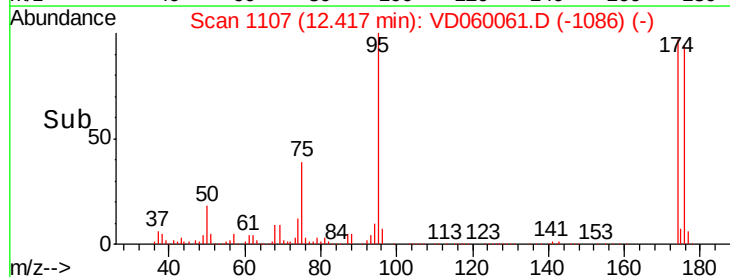
300000

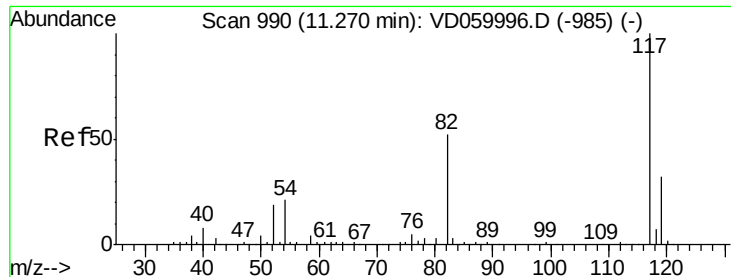
200000

100000

0

Time--> 12.40 12.50

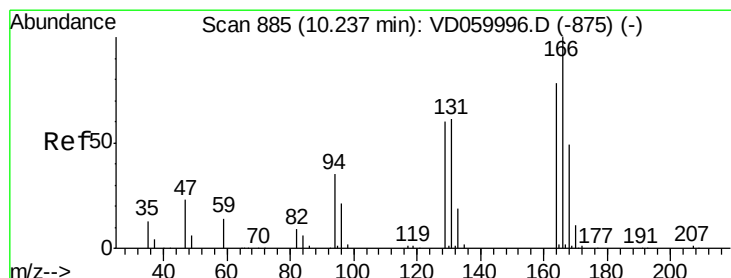
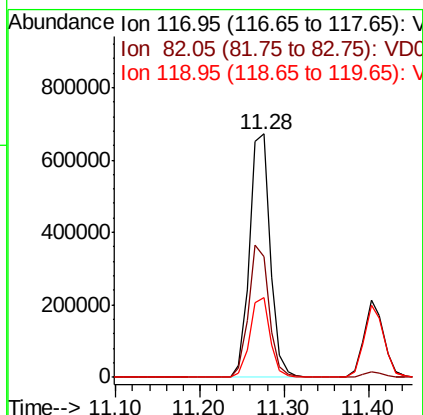
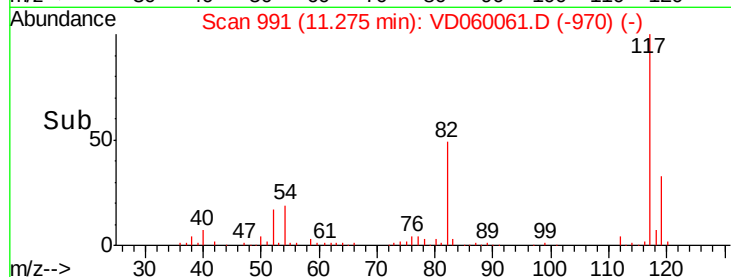
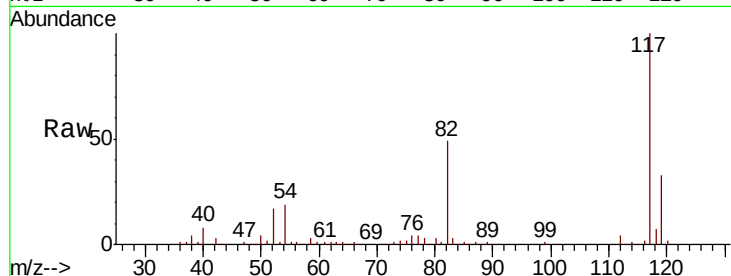




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.28 min Scan# 991
Delta R.T. 0.01 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

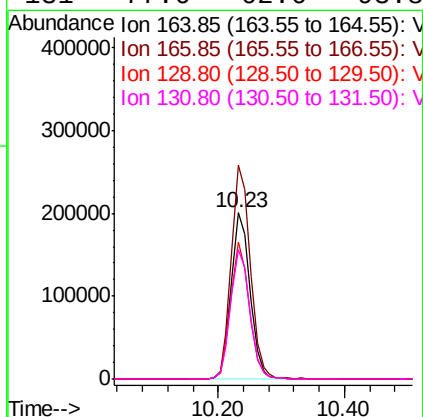
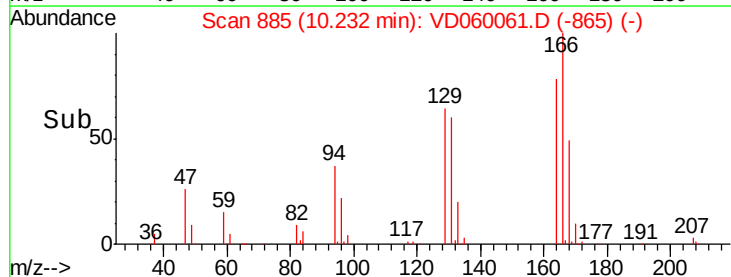
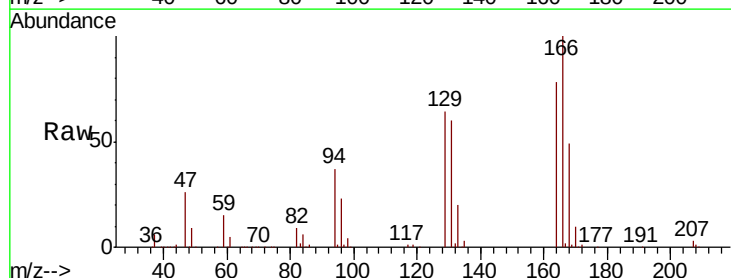
Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-NW-061MSD

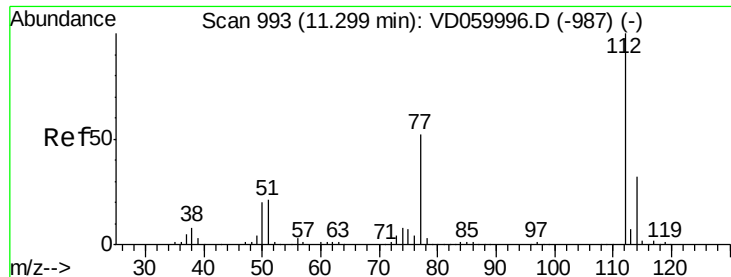
Tot Ion:117 Resp: 1160145
Ion Ratio Lower Upper
117 100
82 49.4 41.7 62.5
119 32.8 26.0 39.0



#64
Tetrachloroethene
Concen: 40.30 ug/l
RT: 10.23 min Scan# 885
Delta R.T. -0.00 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Tgt Ion:164 Resp: 412514
Ion Ratio Lower Upper
164 100
166 128.5 103.0 154.6
129 82.3 61.9 92.9
131 77.6 62.6 93.8





#65

Chlorobenzene

Concen: 50.44 ug/l

RT: 11.30 min Scan# 994

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

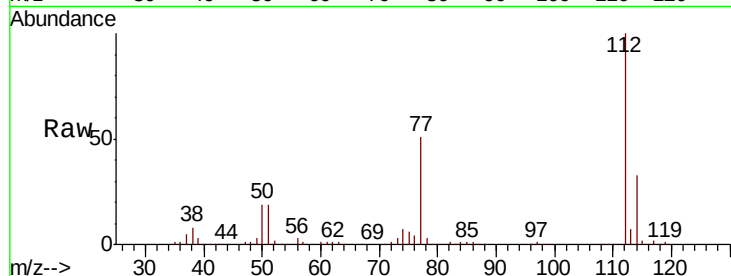
RA-091918-S-NW-061MSD

Tot Ion:112 Resp: 1258140

Ion Ratio Lower Upper

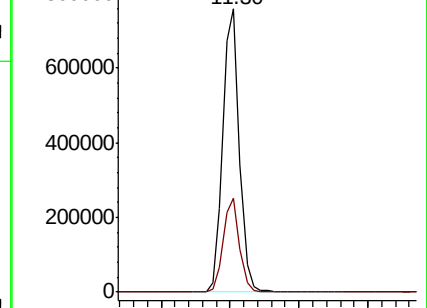
112 100

114 33.2 25.3 37.9

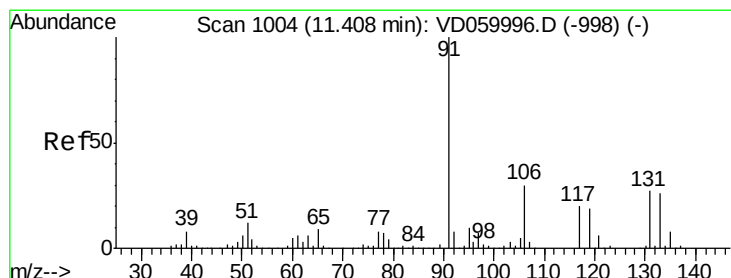
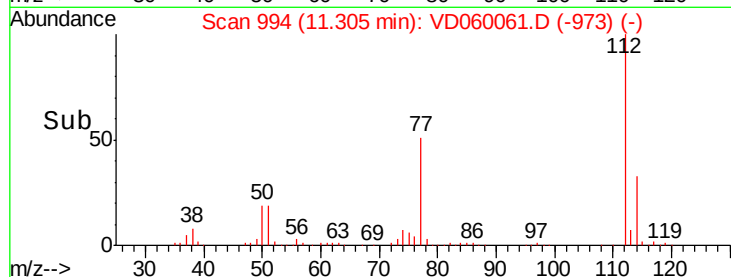


Abundance Ion 111.90 (111.60 to 112.60): V

Ion 114.00 (113.70 to 114.70): V



Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 55.00 ug/l

RT: 11.40 min Scan# 1004

Delta R.T. -0.00 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

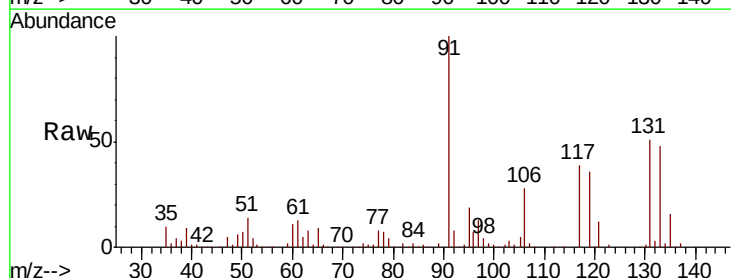
Tgt Ion:131 Resp: 462674

Ion Ratio Lower Upper

131 100

133 94.1 47.4 142.3

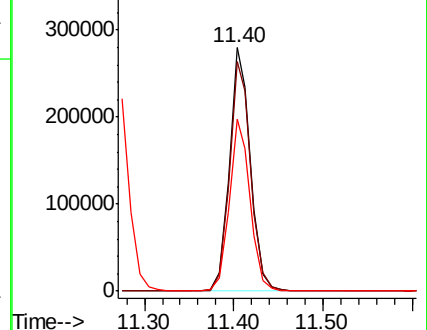
119 70.8 35.6 106.9



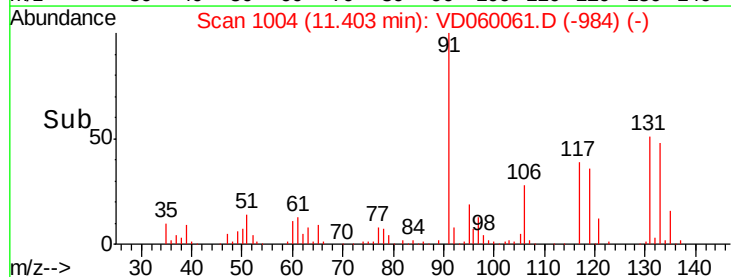
Abundance Ion 130.90 (130.60 to 131.60): V

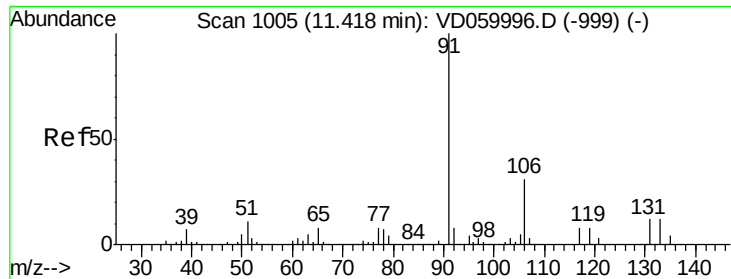
Ion 132.90 (132.60 to 133.60): V

Ion 118.85 (118.55 to 119.55): V



Time-->

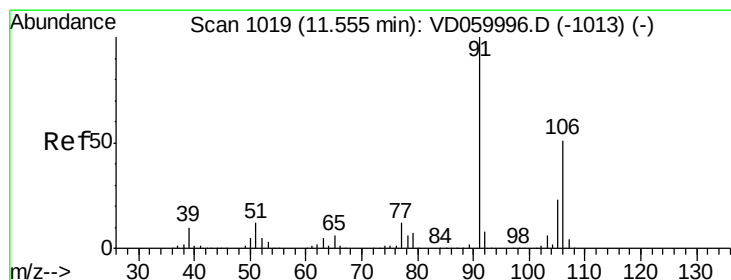
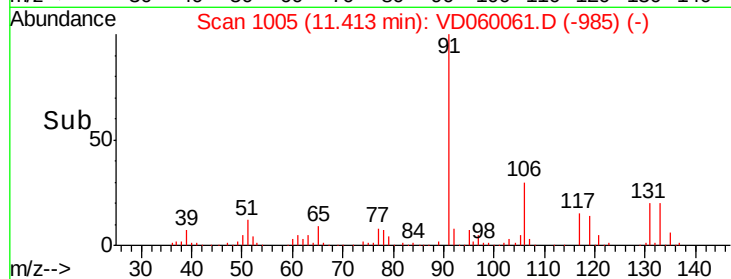
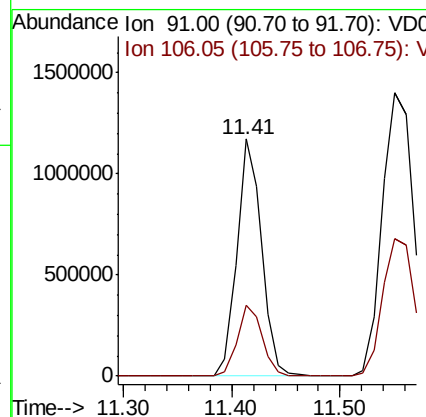
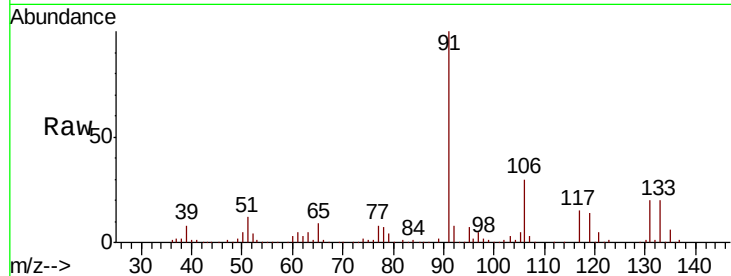




#67
Ethyl Benzene
Concen: 46.14 ug/l
RT: 11.41 min Scan# 1005
Delta R.T. -0.00 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

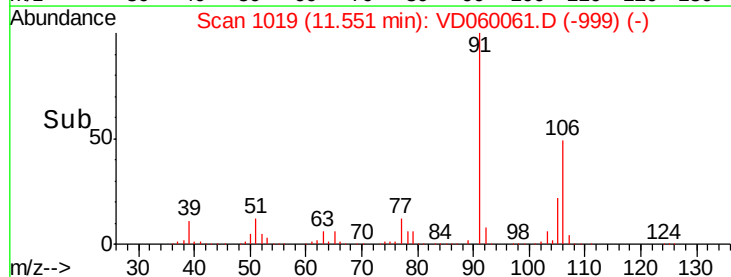
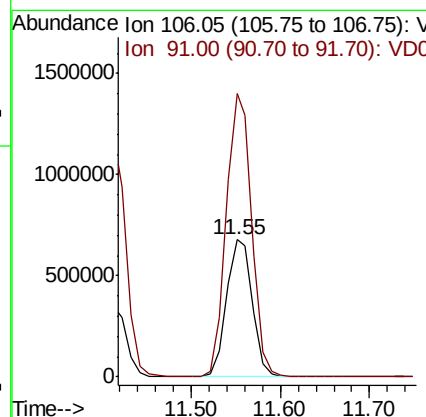
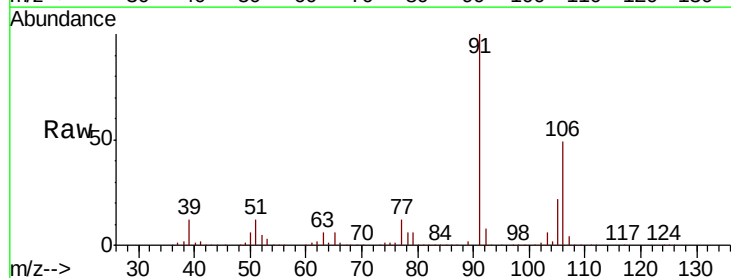
Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-NW-061MSD

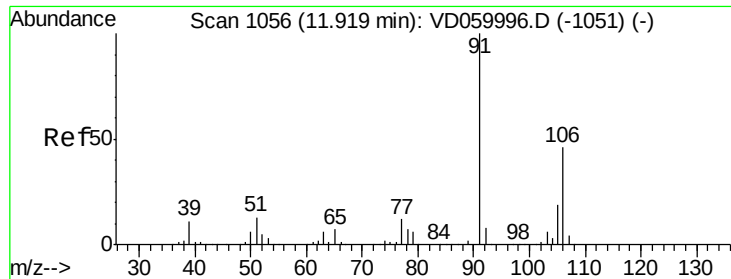
Tot Ion: 91 Resp: 1851850
Ion Ratio Lower Upper
91 100
106 29.7 24.8 37.2



#68
m/p-Xylenes
Concen: 92.76 ug/l
RT: 11.55 min Scan# 1019
Delta R.T. -0.00 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Tgt Ion: 106 Resp: 1375048
Ion Ratio Lower Upper
106 100
91 206.0 157.0 235.6

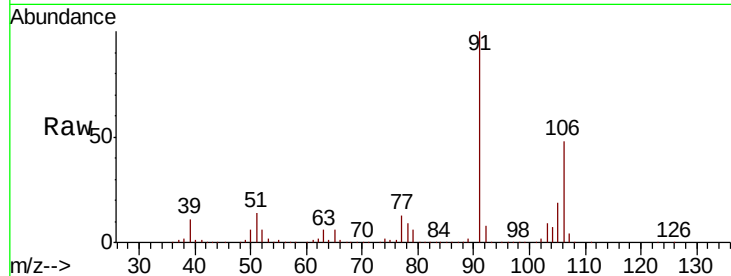




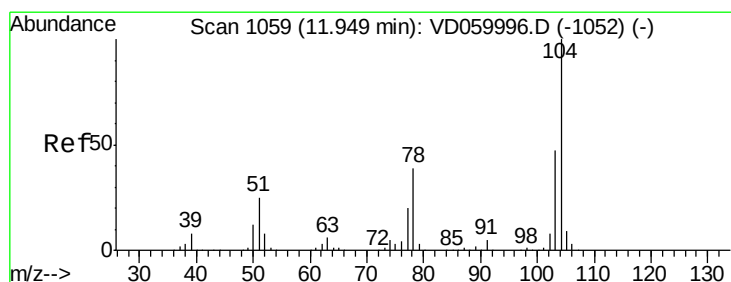
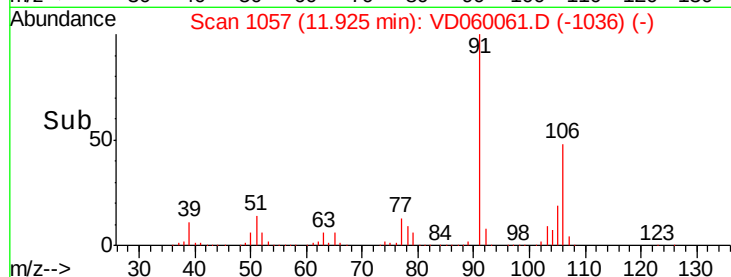
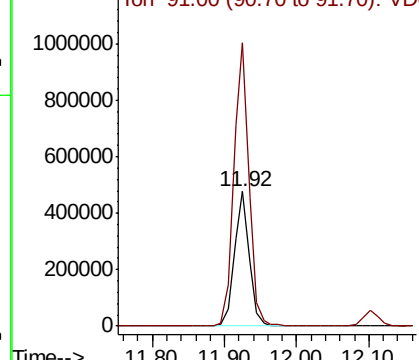
#69
o-Xylene
Concen: 46.06 ug/l
RT: 11.92 min Scan# 1057
Delta R.T. 0.01 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-NW-061MSD

Tot Ion:106 Resp: 676543
Ion Ratio Lower Upper
106 100
91 210.4 107.7 323.1

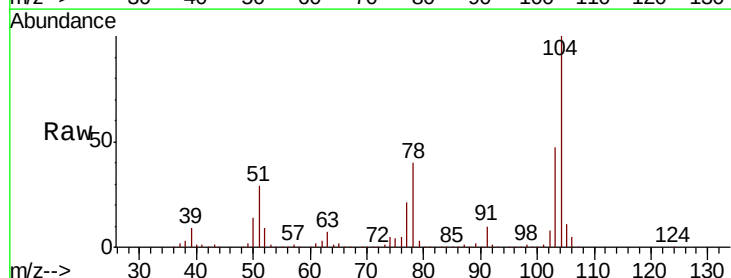


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

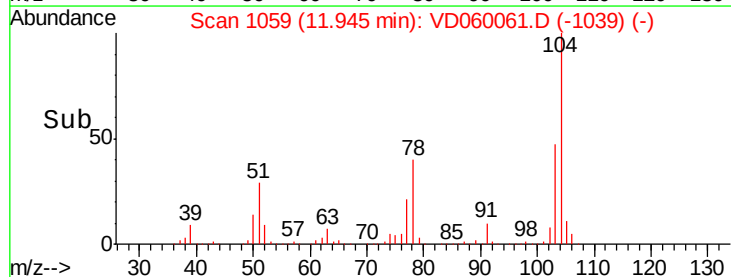
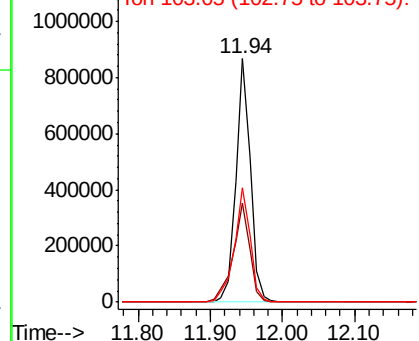


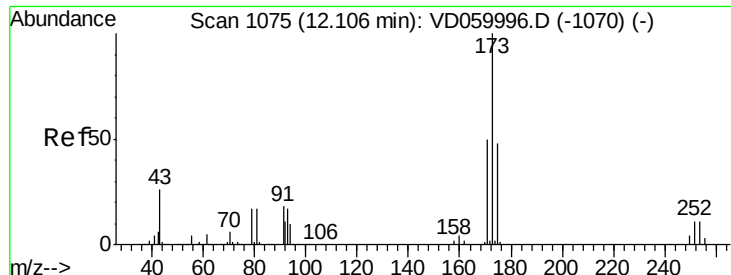
#70
Styrene
Concen: 49.21 ug/l
RT: 11.94 min Scan# 1059
Delta R.T. -0.00 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Tgt Ion:104 Resp: 1215334
Ion Ratio Lower Upper
104 100
78 40.4 31.0 46.4
103 46.9 37.6 56.4



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





#71

Bromoform

Concen: 53.71 ug/l

RT: 12.10 min Scan# 1075

Delta R.T. -0.00 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-061MSD

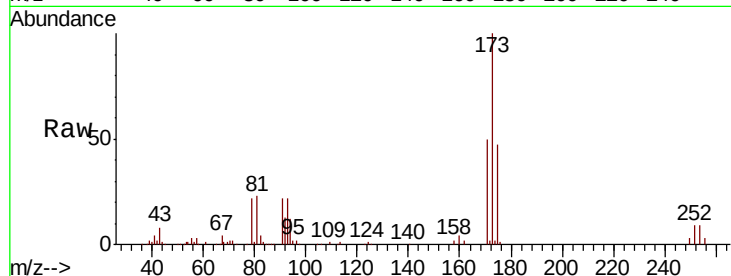
Tot Ion:173 Resp: 388220

Ion Ratio Lower Upper

173 100

175 47.1 24.0 72.0

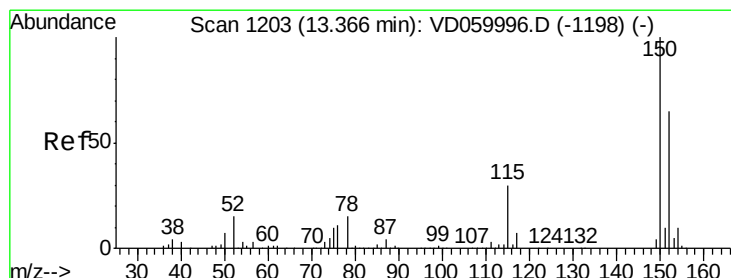
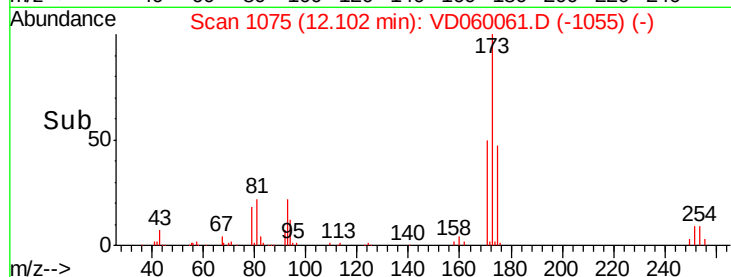
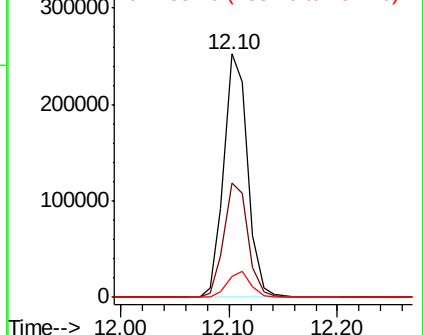
254 8.8 8.6 13.0



Abundance Ion 172.80 (172.50 to 173.50): V

Ion 174.80 (174.50 to 175.50): V

Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.36 min Scan# 1203

Delta R.T. -0.00 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

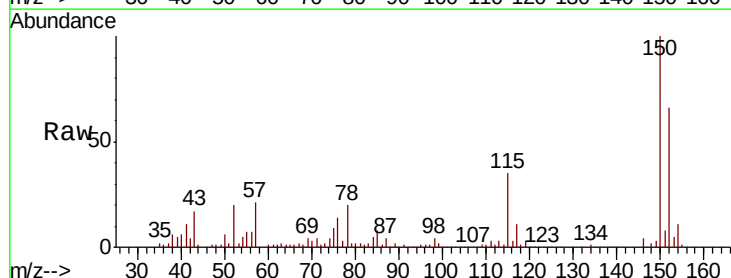
Tgt Ion:152 Resp: 447296

Ion Ratio Lower Upper

152 100

115 52.9 24.6 73.8

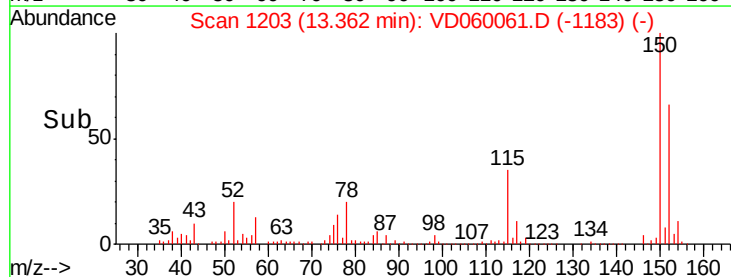
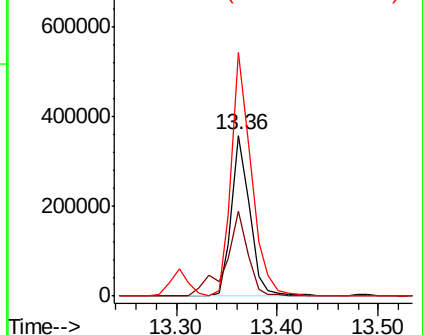
150 151.2 0.0 313.4

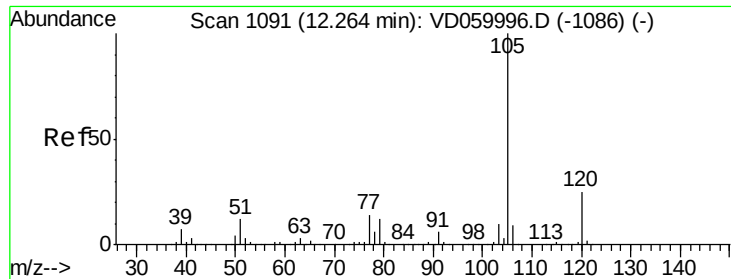


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 50.45 ug/l

RT: 12.27 min Scan# 1092

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

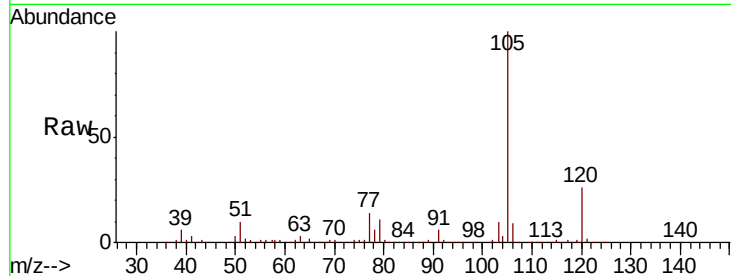
RA-091918-S-NW-061MSD

Tot Ion:105 Resp: 1480084

Ion Ratio Lower Upper

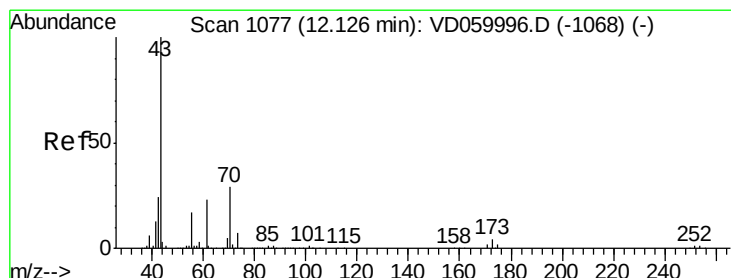
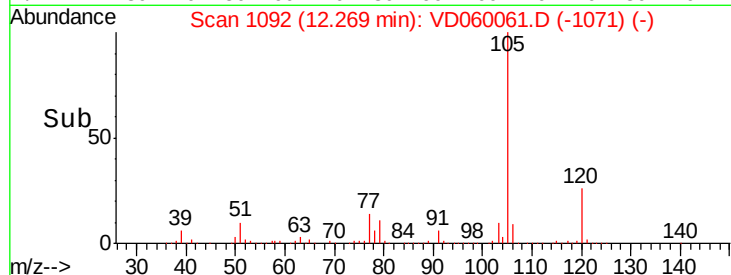
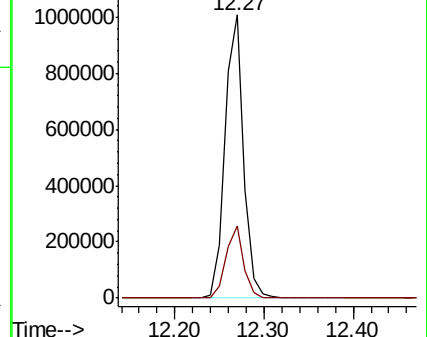
105 100

120 25.6 12.3 36.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 75.08 ug/l

RT: 12.12 min Scan# 1077

Delta R.T. -0.00 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Tgt Ion: 43 Resp: 872407

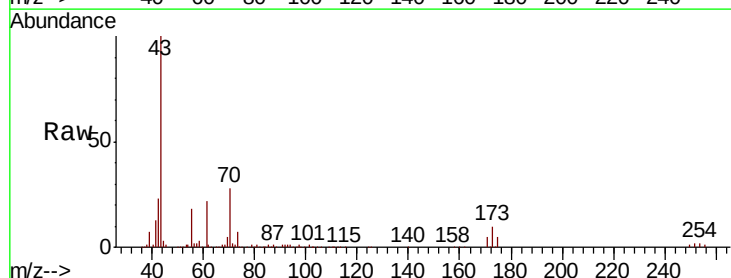
Ion Ratio Lower Upper

43 100

70 27.5 22.9 34.3

55 18.4 14.0 21.0

61 22.2 18.7 28.1

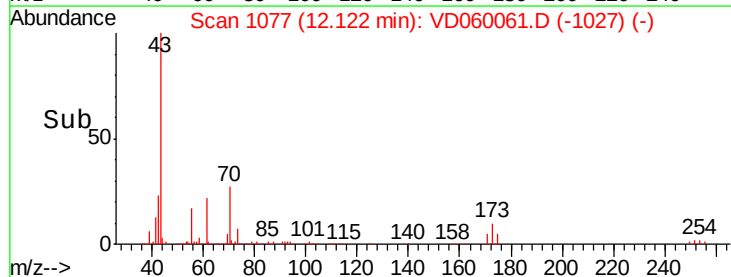
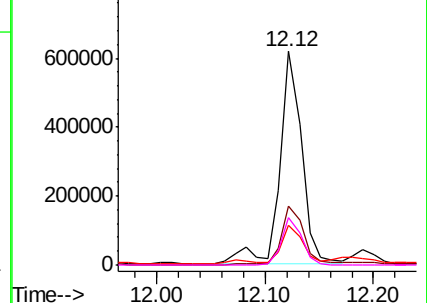


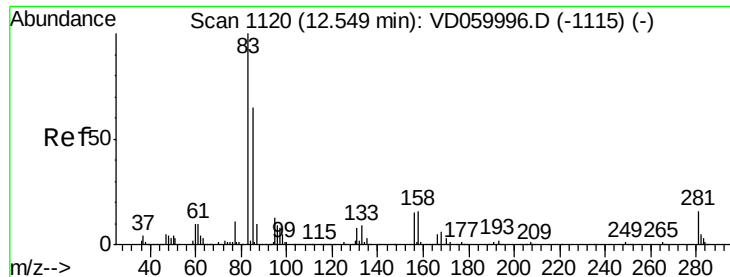
Abundance Ion 42.95 (42.65 to 43.65): V

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: 76.90 ug/l

RT: 12.55 min Scan# 1121

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-061MSD

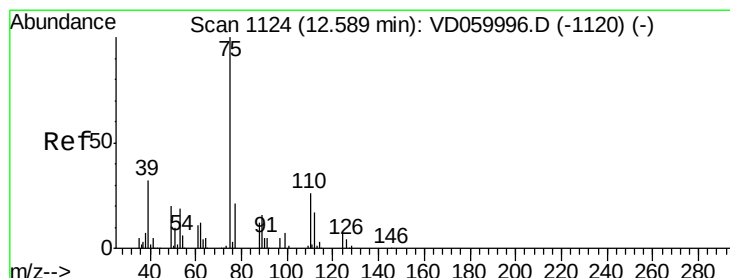
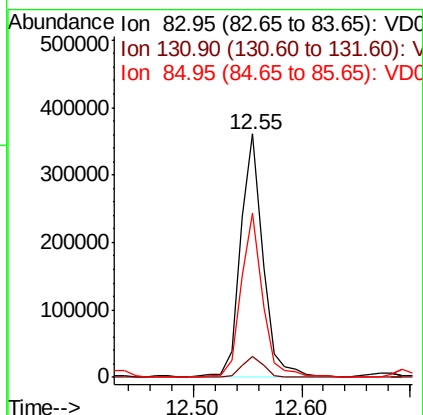
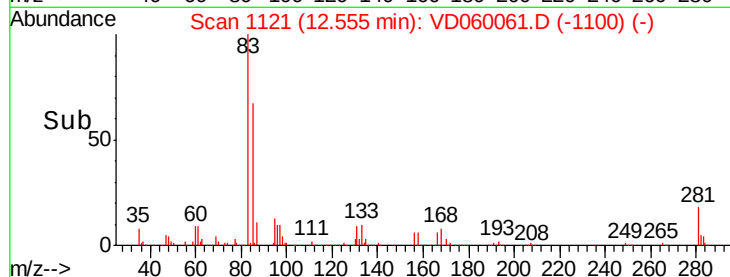
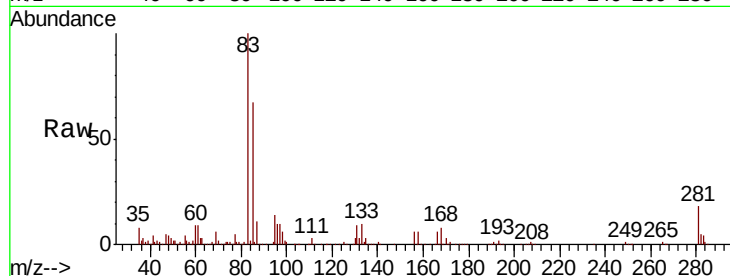
Tot Ion: 83 Resp: 511750

Ion	Ratio	Lower	Upper
83	100		
131	8.8	4.1	12.3
85	67.5	32.4	97.2

83 100

131 8.8 4.1 12.3

85 67.5 32.4 97.2



#76

1,2,3-Trichloropropane

Concen: 73.35 ug/l

RT: 12.58 min Scan# 1124

Delta R.T. -0.00 min

Lab File: VD060061.D

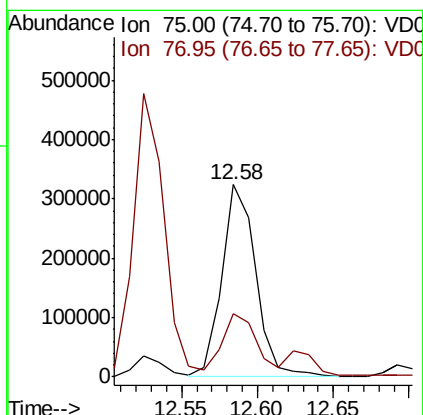
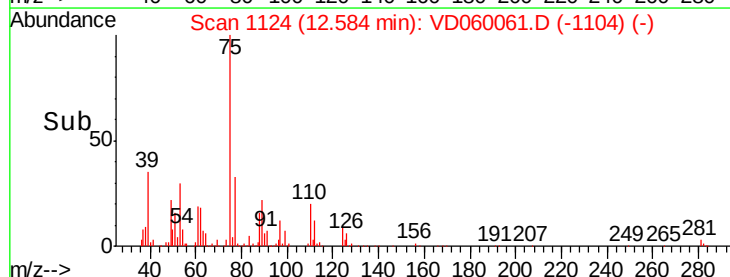
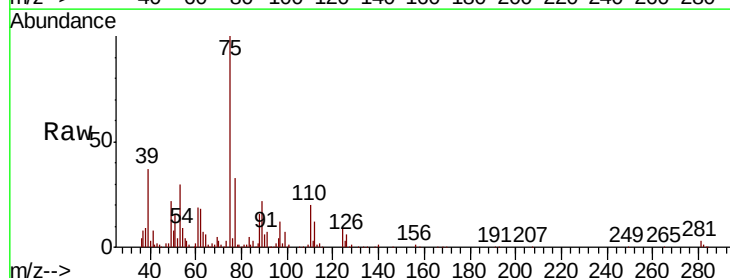
Acq: 20 Sep 2018 21:25

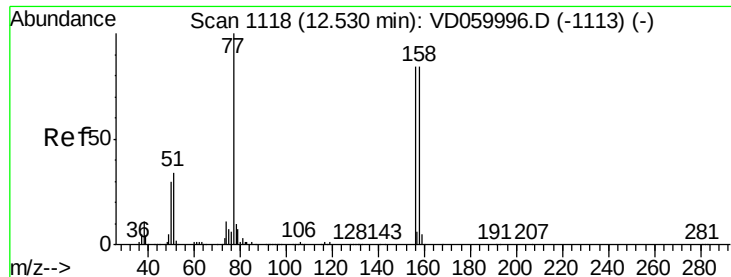
Tgt Ion: 75 Resp: 501081

Ion	Ratio	Lower	Upper
75	100		
77	32.9	16.4	49.4

75 100

77 32.9 16.4 49.4





#77

Bromobenzene

Concen: 64.82 ug/l

RT: 12.53 min Scan# 1119

Delta R.T. 0.01 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-061MSD

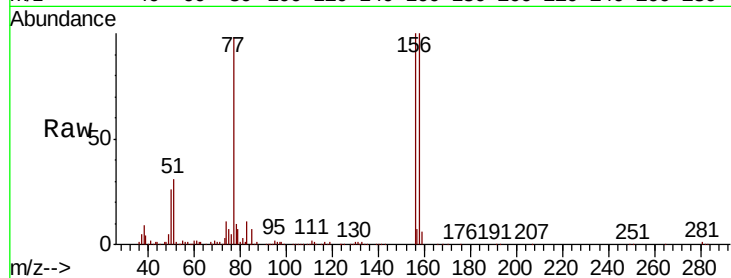
Tot Ion:156 Resp: 547750

Ion Ratio Lower Upper

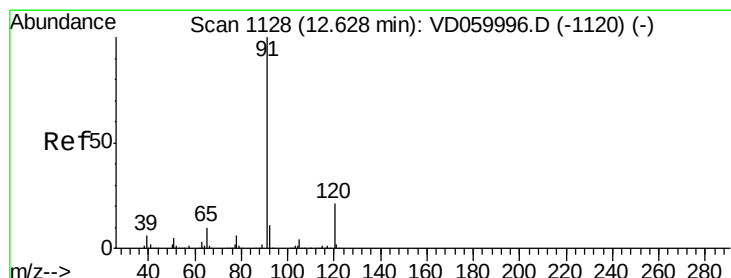
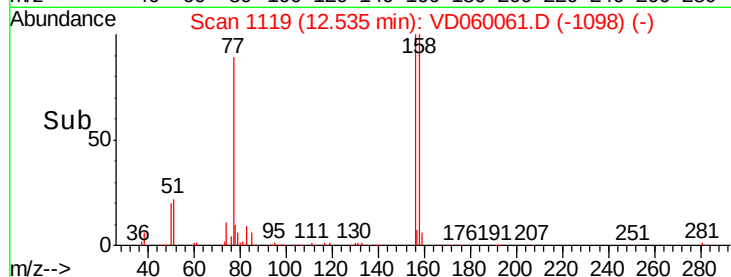
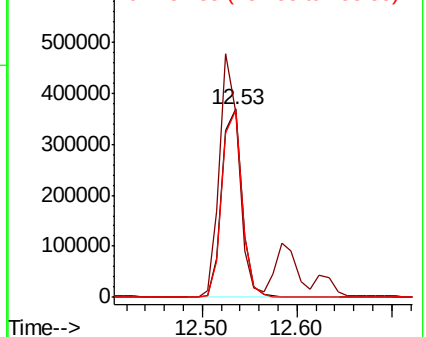
156 100

77 98.3 59.5 178.4

158 99.7 50.0 149.8



Abundance Ion 155.90 (155.60 to 156.60): V
Ion 76.95 (76.65 to 77.65): V
Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 46.26 ug/l

RT: 12.62 min Scan# 1128

Delta R.T. -0.00 min

Lab File: VD060061.D

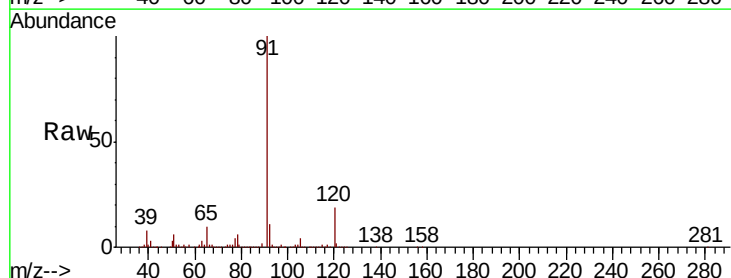
Acq: 20 Sep 2018 21:25

Tgt Ion: 91 Resp: 1706438

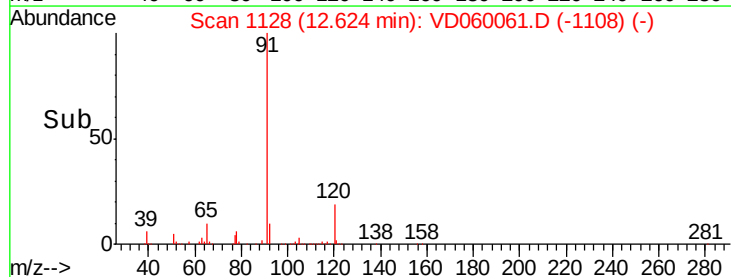
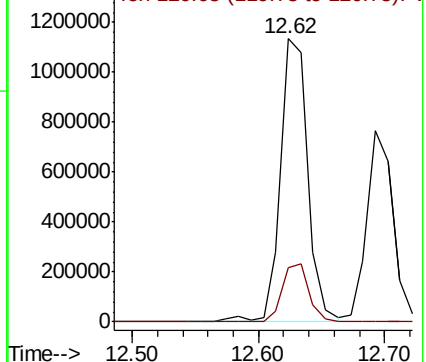
Ion Ratio Lower Upper

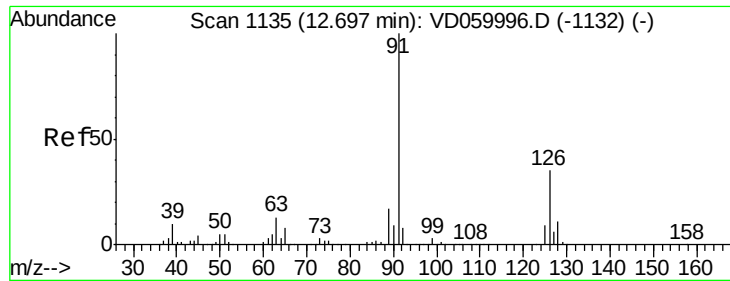
91 100

120 19.0 10.7 31.9



Abundance Ion 91.00 (90.70 to 91.70): V
Ion 120.05 (119.75 to 120.75): V

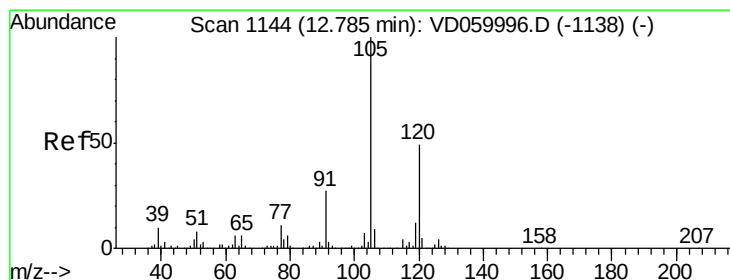
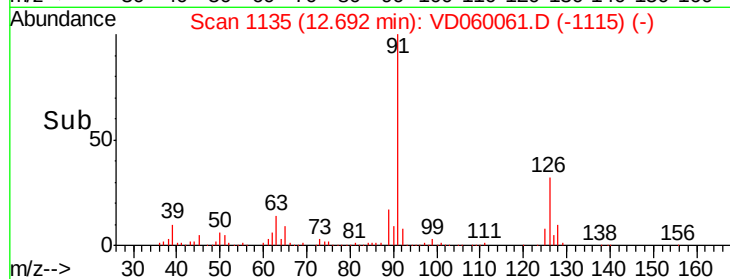
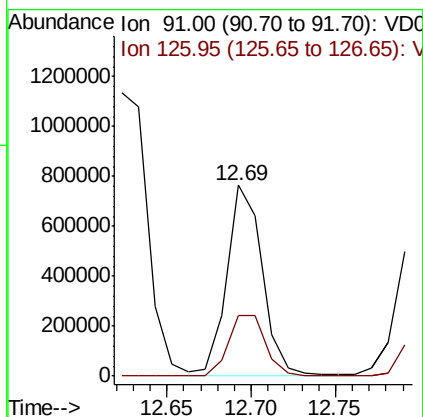
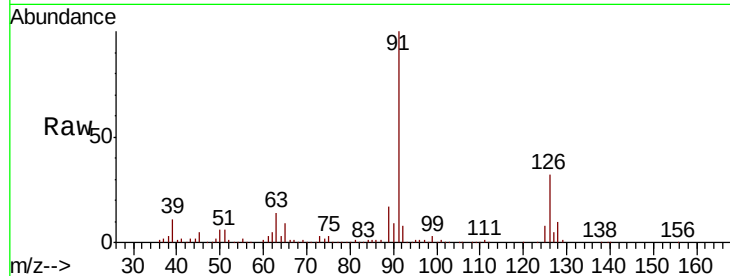




#79
 2-Chlorotoluene
 Concen: 53.12 ug/l
 RT: 12.69 min Scan# 1135
 Delta R.T. -0.00 min
 Lab File: VD060061.D
 Acq: 20 Sep 2018 21:25

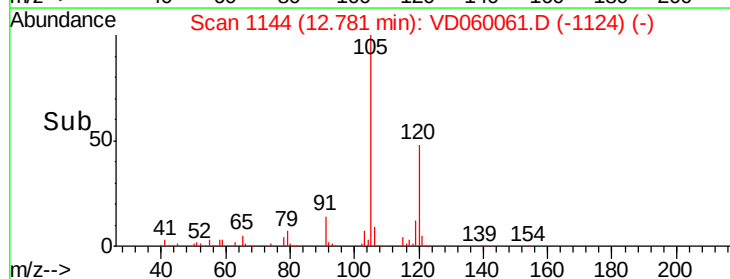
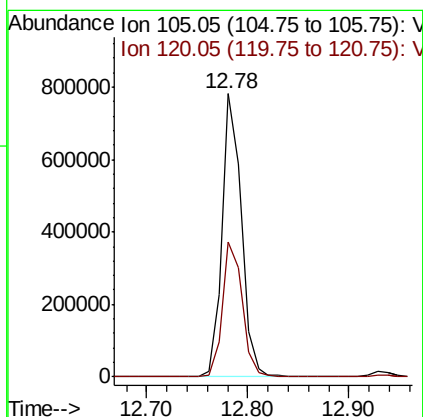
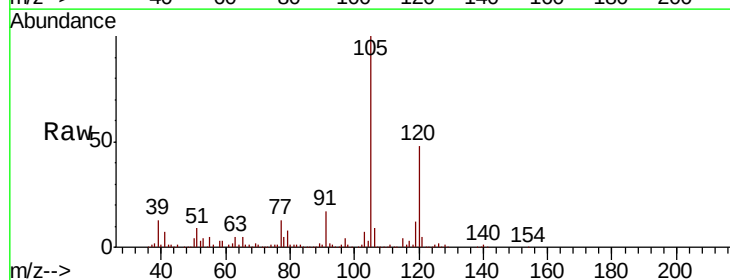
Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-S-NW-061MSD

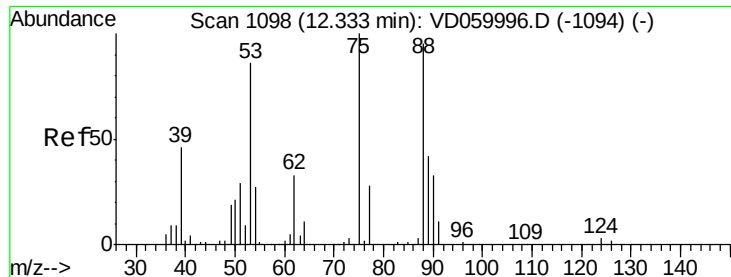
Tot Ion: 91 Resp: 1106087
 Ion Ratio Lower Upper
 91 100
 126 32.0 17.3 52.0



#80
 1,3,5-Trimethylbenzene
 Concen: 46.35 ug/l
 RT: 12.78 min Scan# 1144
 Delta R.T. -0.00 min
 Lab File: VD060061.D
 Acq: 20 Sep 2018 21:25

Tgt Ion: 105 Resp: 1042170
 Ion Ratio Lower Upper
 105 100
 120 47.5 24.4 73.2





#81

trans-1,4-Dichloro-2-butene

Concen: 71.74 ug/l

RT: 12.33 min Scan# 1098

Delta R.T. -0.00 min

Lab File: VD060061.D

Acq: 20 Sep 2018 21:25

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-NW-061MSD

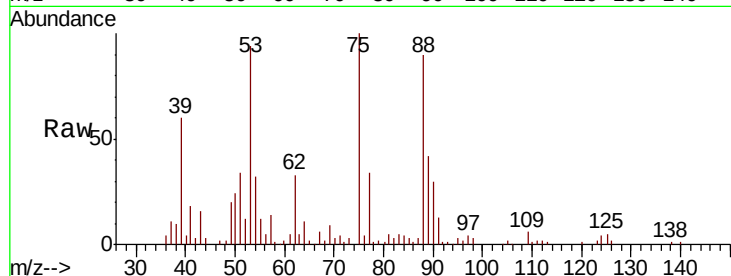
Tot Ion: 75 Resp: 147942

Ion Ratio Lower Upper

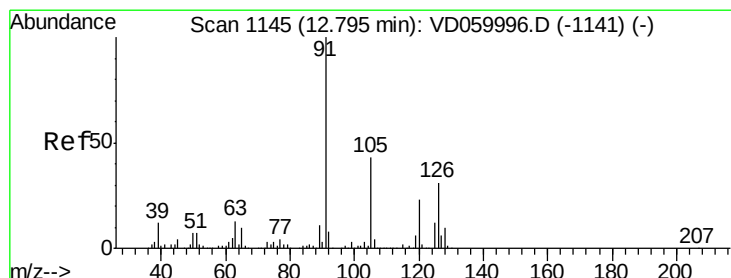
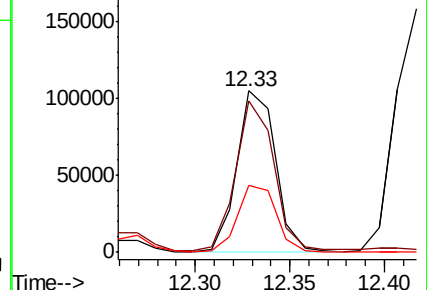
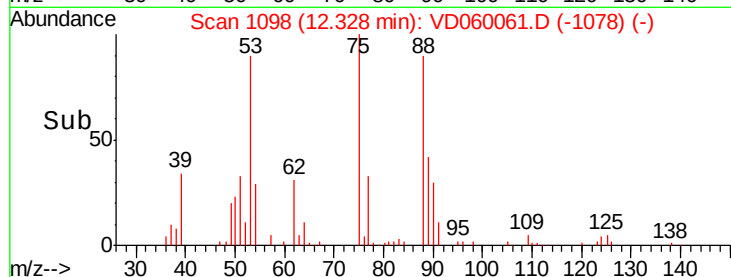
75 100

53 94.1 68.4 102.6

89 41.7 33.8 50.6



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: 54.29 ug/l

RT: 12.80 min Scan# 1146

Delta R.T. 0.01 min

Lab File: VD060061.D

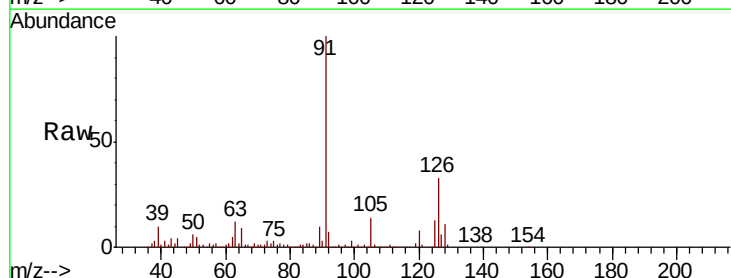
Acq: 20 Sep 2018 21:25

Tgt Ion: 91 Resp: 1242693

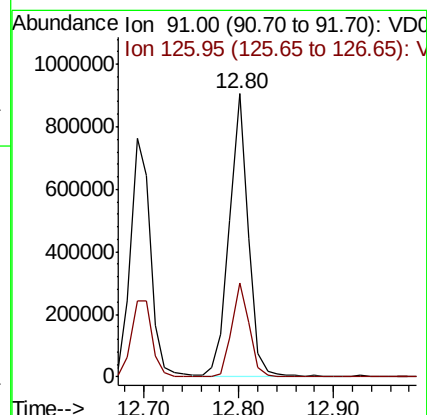
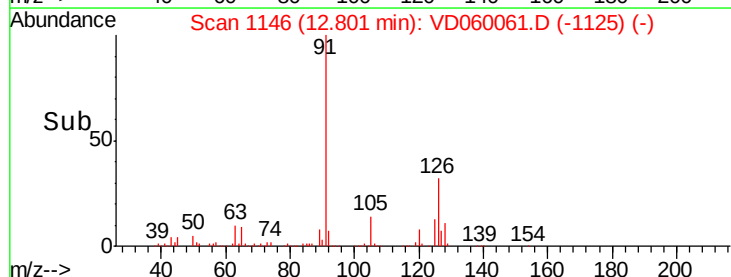
Ion Ratio Lower Upper

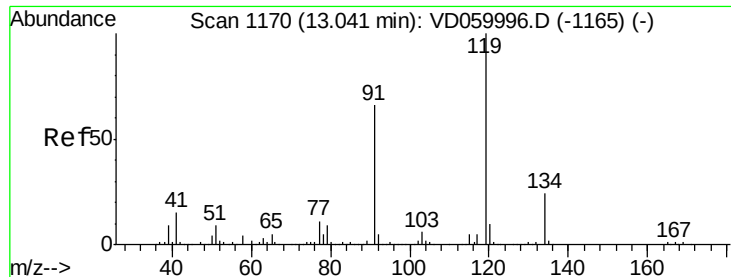
91 100

126 33.0 15.4 46.1



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

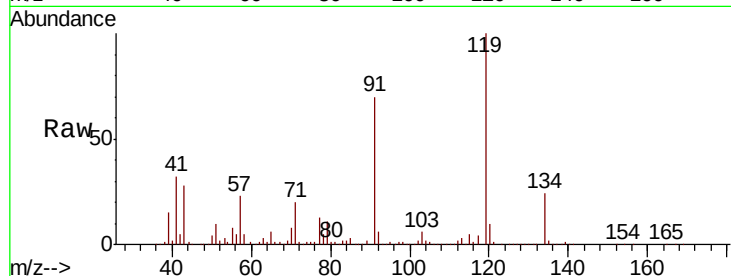




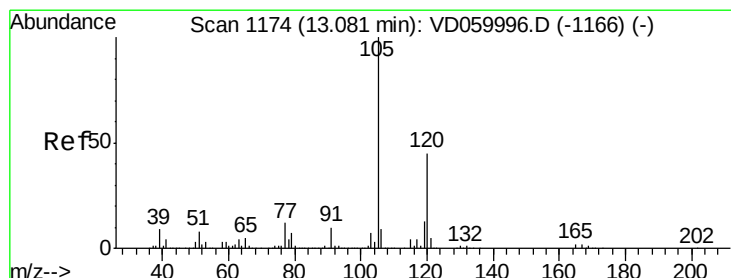
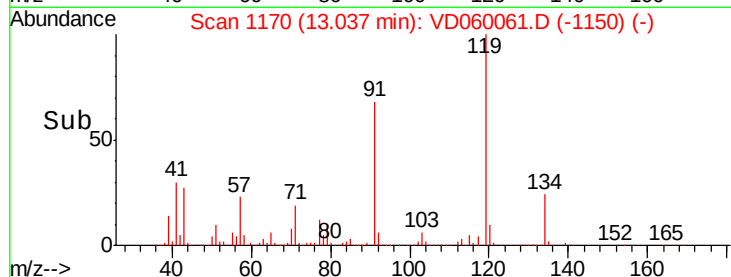
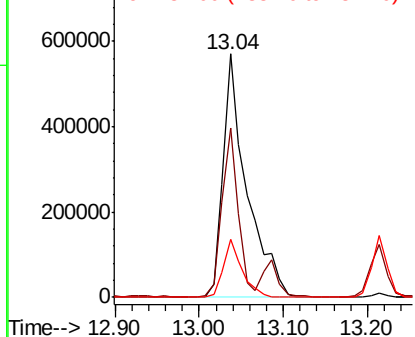
#83
 tert-Butylbenzene
 Concen: 43.24 ug/l
 RT: 13.04 min Scan# 1170
 Delta R.T. -0.00 min
 Lab File: VD060061.D
 Acq: 20 Sep 2018 21:25

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-S-NW-061MSD

Tot Ion:119 Resp: 1126328
 Ion Ratio Lower Upper
 119 100
 91 69.6 32.9 98.6
 134 23.9 12.0 36.0

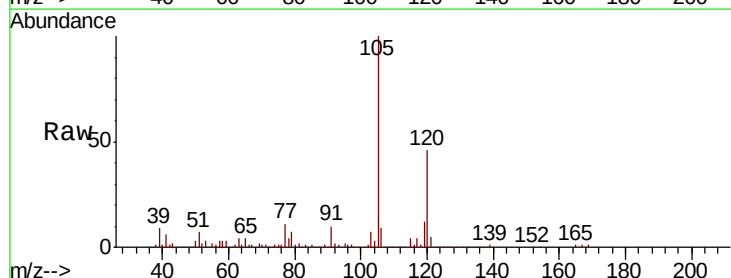


Abundance Ion 119.05 (118.75 to 119.75): V
 Ion 91.00 (90.70 to 91.70): V
 Ion 134.00 (133.70 to 134.70): V

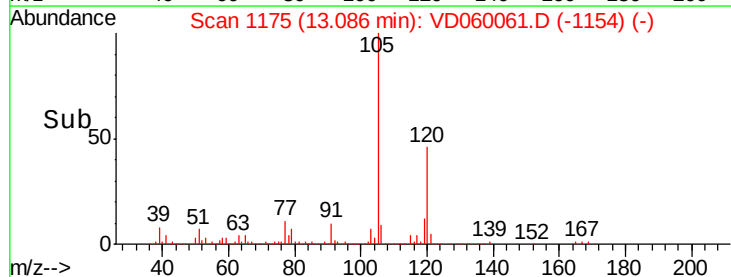
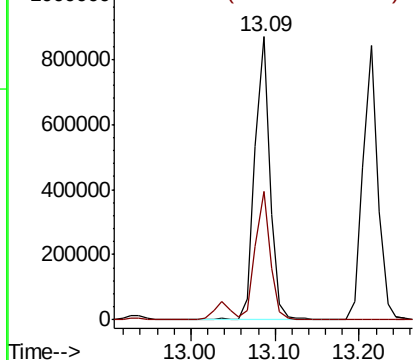


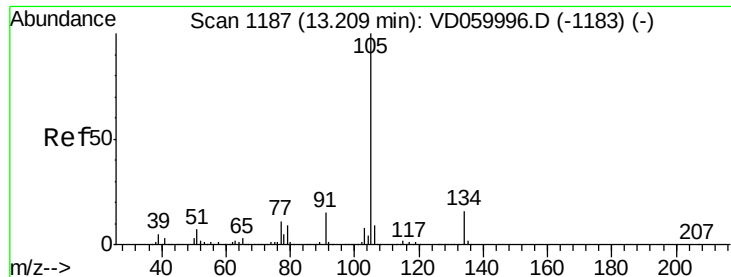
#84
 1,2,4-Trimethylbenzene
 Concen: 45.92 ug/l
 RT: 13.09 min Scan# 1175
 Delta R.T. 0.01 min
 Lab File: VD060061.D
 Acq: 20 Sep 2018 21:25

Tgt Ion:105 Resp: 1101828
 Ion Ratio Lower Upper
 105 100
 120 45.5 22.4 67.0



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

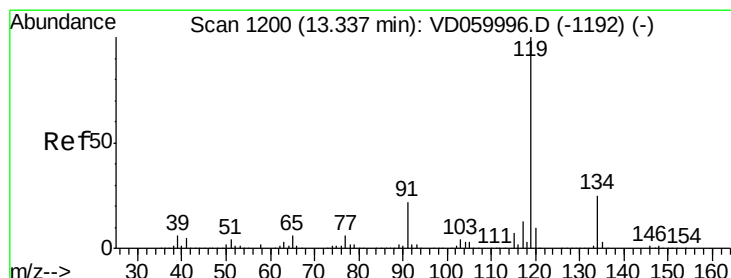
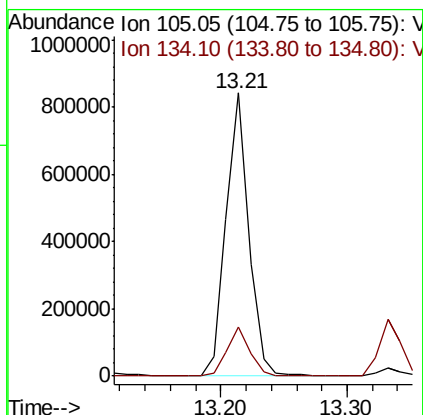
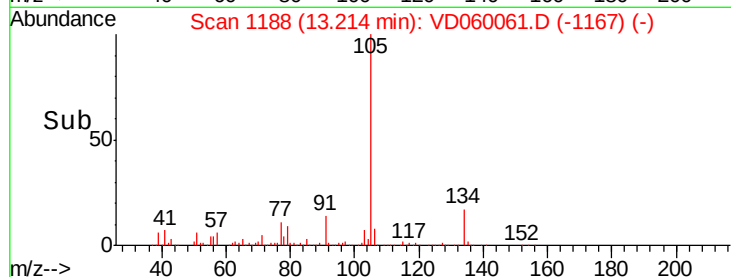
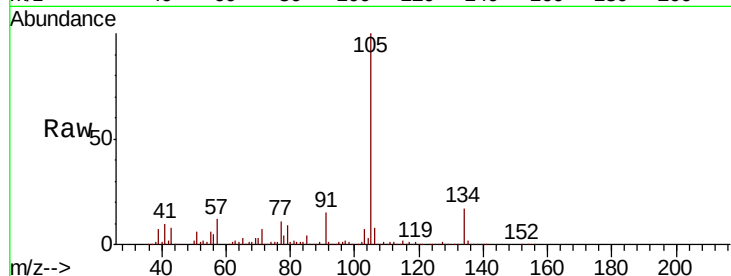




#85
 sec-Butylbenzene
 Concen: 33.75 ug/l
 RT: 13.21 min Scan# 1188
 Delta R.T. 0.01 min
 Lab File: VD060061.D
 Acq: 20 Sep 2018 21:25

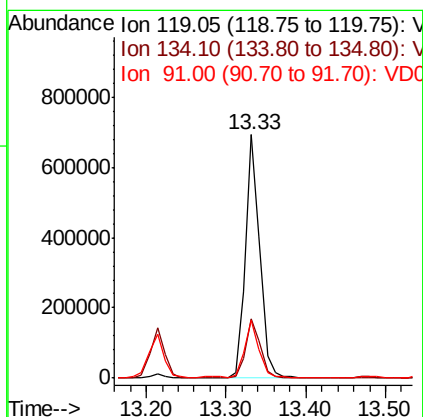
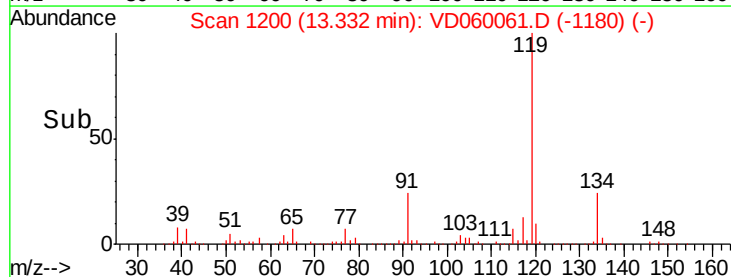
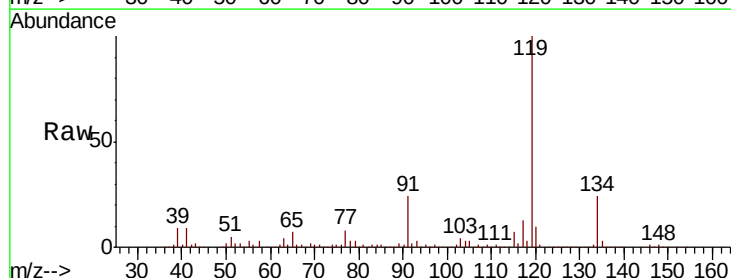
Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-S-NW-061MSD

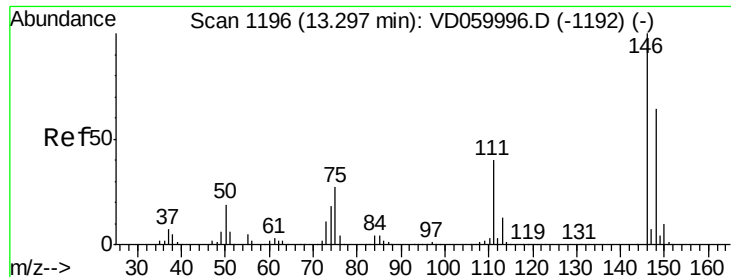
Tot Ion:105 Resp: 1043743
 Ion Ratio Lower Upper
 105 100
 134 17.2 8.2 24.6



#86
 p-Isopropyltoluene
 Concen: 34.34 ug/l
 RT: 13.33 min Scan# 1200
 Delta R.T. -0.00 min
 Lab File: VD060061.D
 Acq: 20 Sep 2018 21:25

Tgt Ion:119 Resp: 858729
 Ion Ratio Lower Upper
 119 100
 134 24.1 12.8 38.3
 91 23.9 11.1 33.3

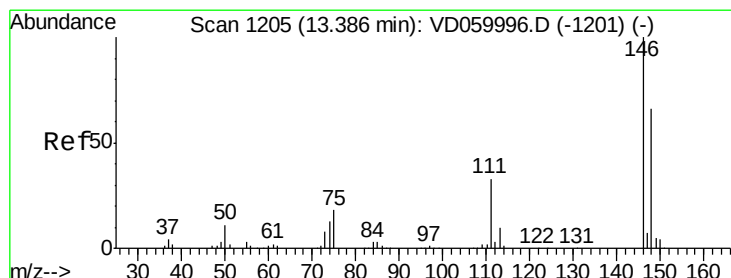
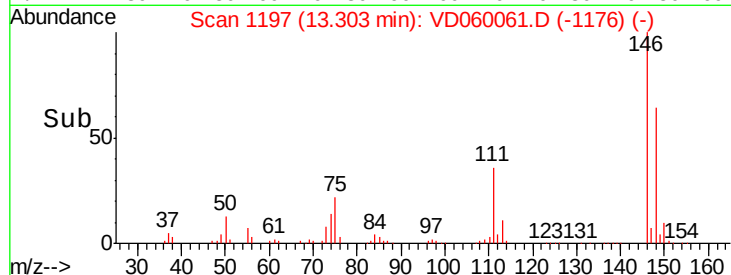
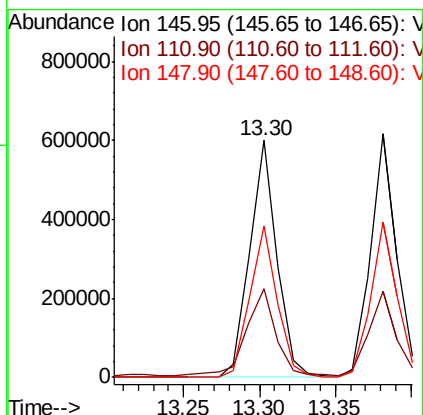
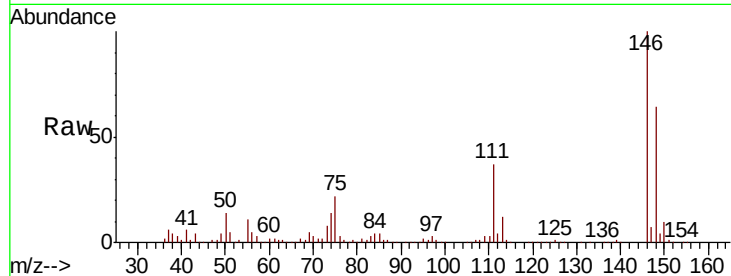




#87
 1,3-Dichlorobenzene
 Concen: 50.91 ug/l
 RT: 13.30 min Scan# 1197
 Delta R.T. 0.01 min
 Lab File: VD060061.D
 Acq: 20 Sep 2018 21:25

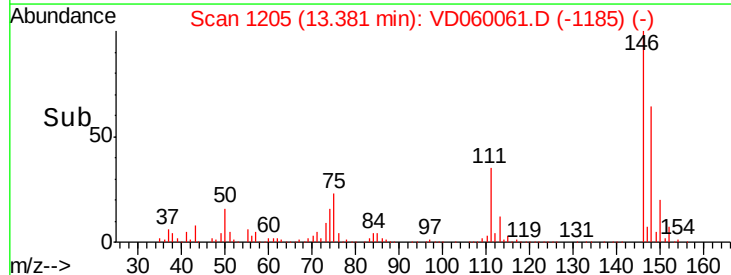
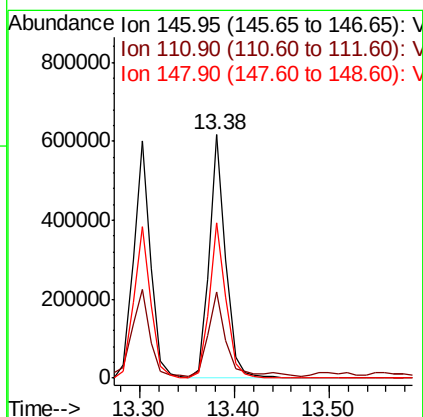
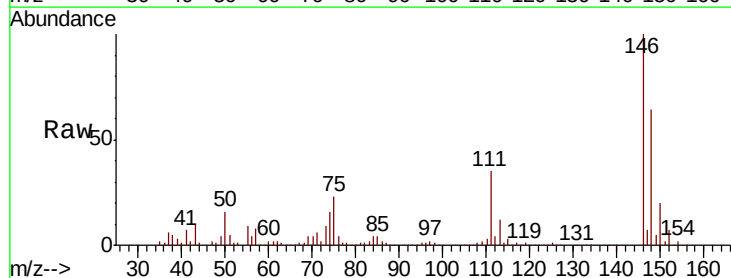
Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-S-NW-061MSD

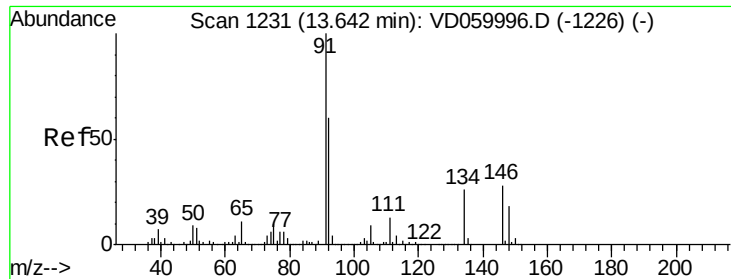
Tot Ion:146 Resp: 748184
 Ion Ratio Lower Upper
 146 100
 111 37.3 20.2 60.5
 148 64.1 32.0 96.2



#88
 1,4-Dichlorobenzene
 Concen: 50.32 ug/l
 RT: 13.38 min Scan# 1205
 Delta R.T. -0.00 min
 Lab File: VD060061.D
 Acq: 20 Sep 2018 21:25

Tgt Ion:146 Resp: 750091
 Ion Ratio Lower Upper
 146 100
 111 35.5 16.7 50.0
 148 64.0 32.9 98.6

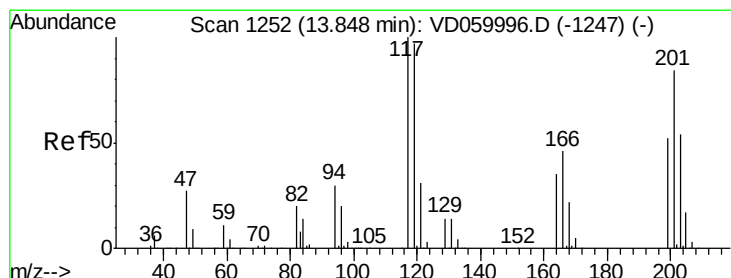
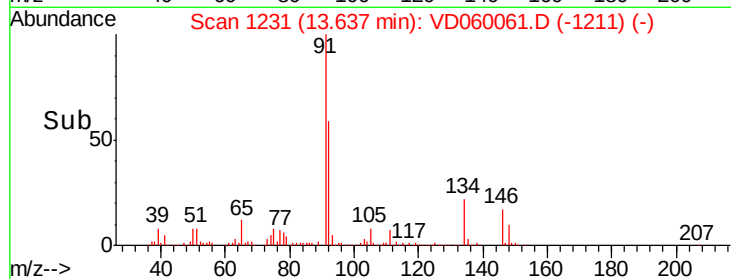
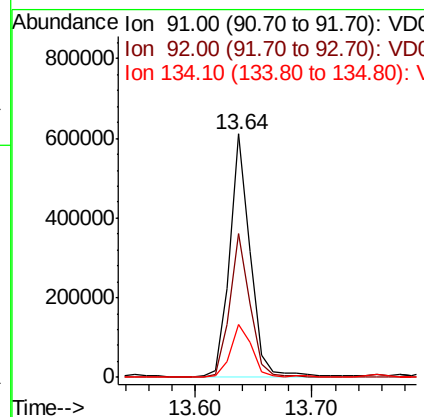
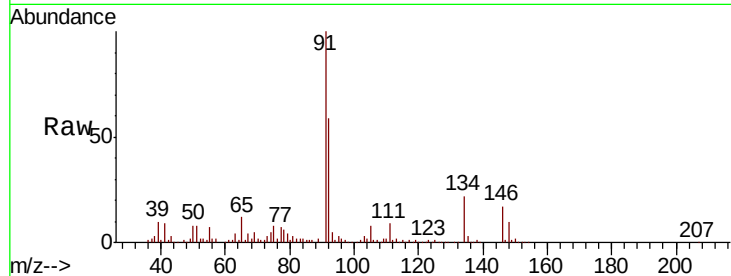




#89
n-Butylbenzene
Concen: 28.89 ug/l
RT: 13.64 min Scan# 1231
Delta R.T. -0.00 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

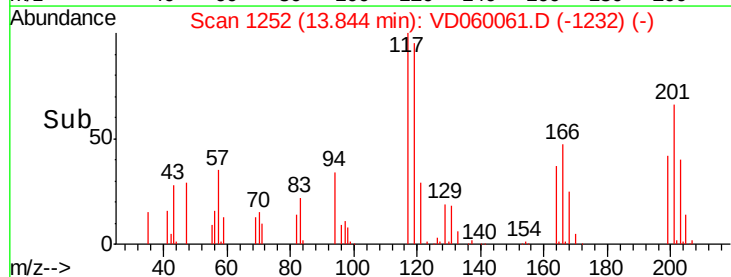
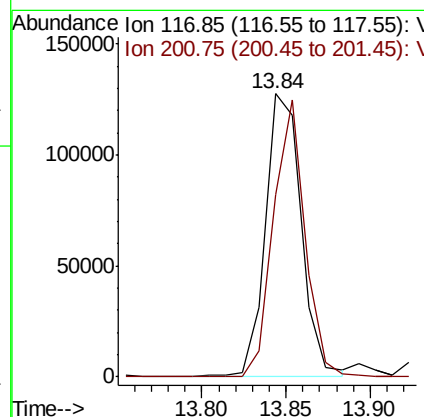
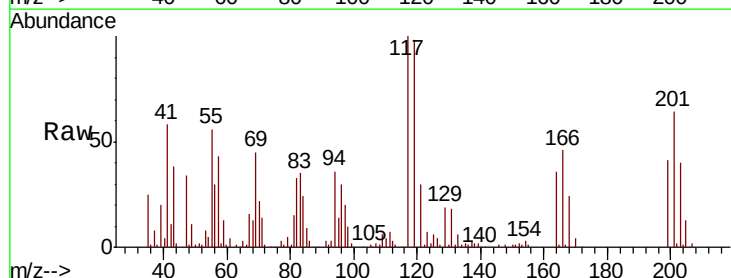
Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-NW-061MSD

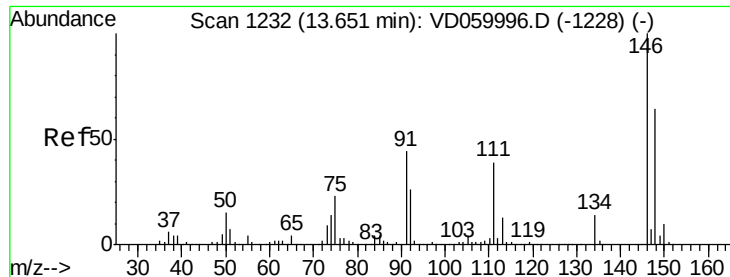
Tot Ion: 91 Resp: 742234
Ion Ratio Lower Upper
91 100
92 59.2 29.8 89.3
134 21.9 13.2 39.6



#90
Hexachloroethane
Concen: 30.33 ug/l
RT: 13.84 min Scan# 1252
Delta R.T. -0.00 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Tgt Ion: 117 Resp: 187885
Ion Ratio Lower Upper
117 100
201 64.3 42.1 126.4

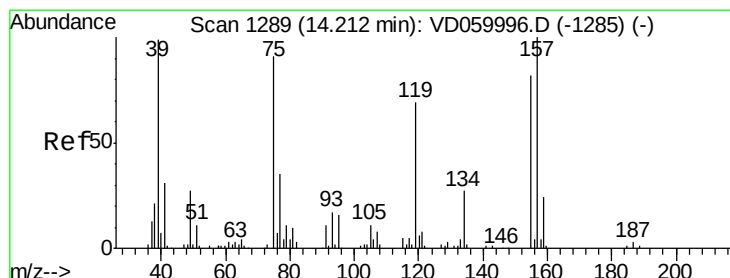
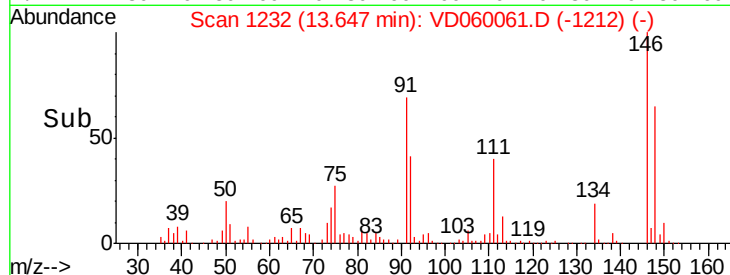
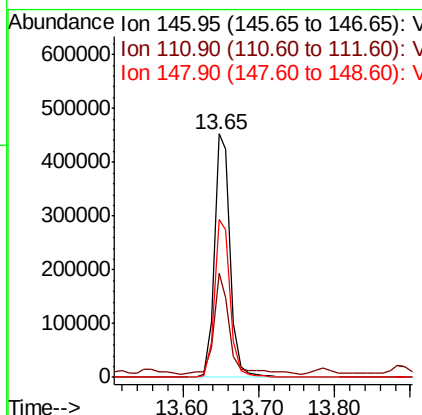
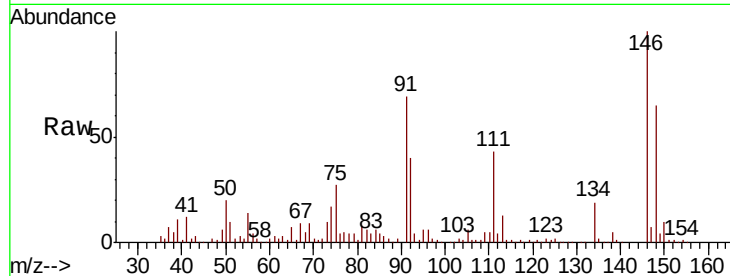




#91
 1,2-Dichlorobenzene
 Concen: 57.56 ug/l
 RT: 13.65 min Scan# 1232
 Delta R.T. -0.00 min
 Lab File: VD060061.D
 Acq: 20 Sep 2018 21:25

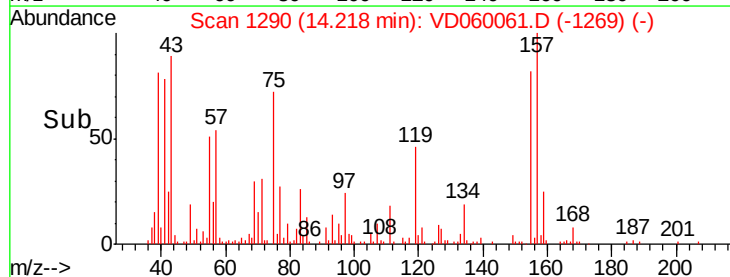
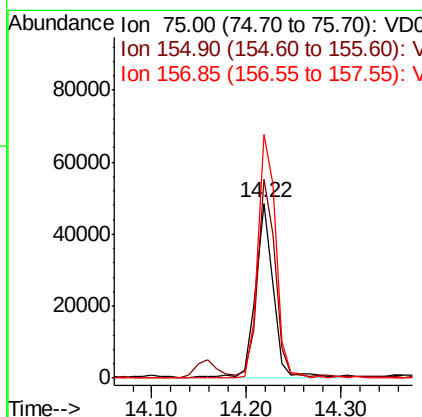
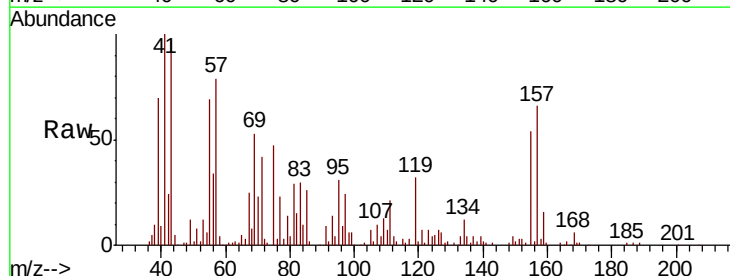
Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-S-NW-061MSD

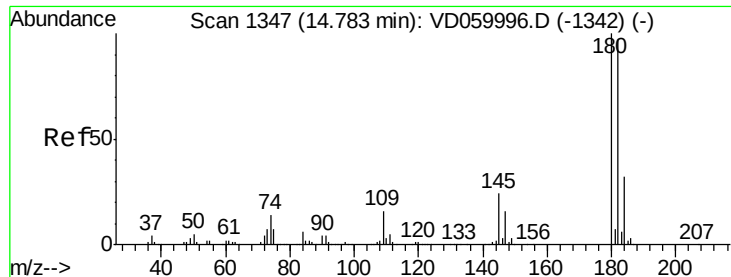
Tot Ion:146 Resp: 665758
 Ion Ratio Lower Upper
 146 100
 111 42.7 19.6 58.7
 148 64.9 31.9 95.7



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 62.77 ug/l
 RT: 14.22 min Scan# 1290
 Delta R.T. 0.01 min
 Lab File: VD060061.D
 Acq: 20 Sep 2018 21:25

Tgt Ion: 75 Resp: 63682
 Ion Ratio Lower Upper
 75 100
 155 114.0 44.7 134.1
 157 139.4 54.7 164.1

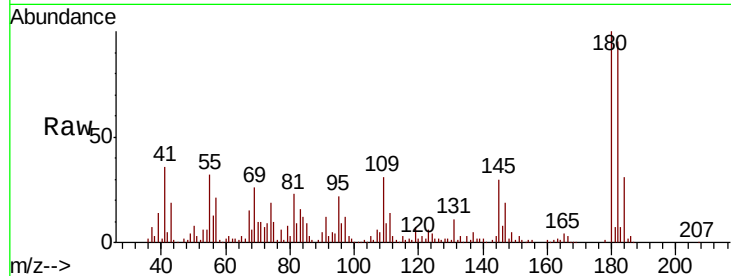




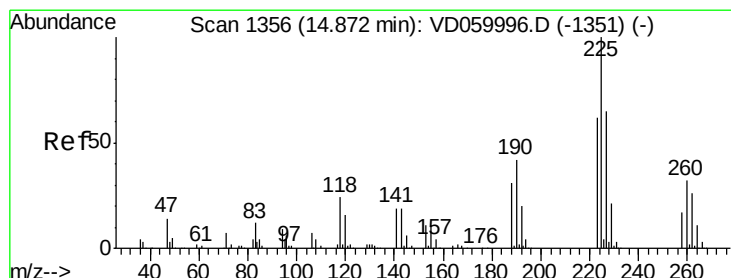
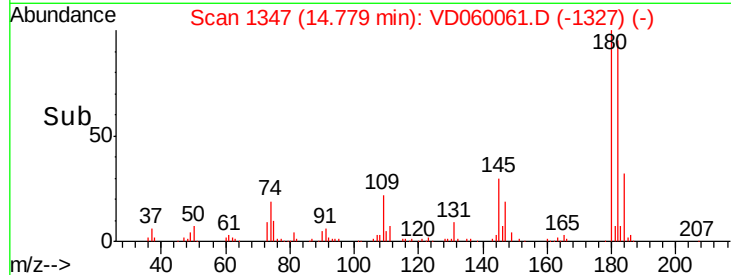
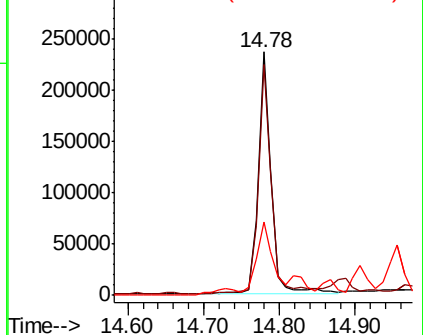
#93
 1,2,4-Trichlorobenzene
 Concen: 27.49 ug/l
 RT: 14.78 min Scan# 1347
 Delta R.T. -0.00 min
 Lab File: VD060061.D
 Acq: 20 Sep 2018 21:25

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-S-NW-061MSD

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.7	48.5	145.6
145	30.0	11.9	35.7

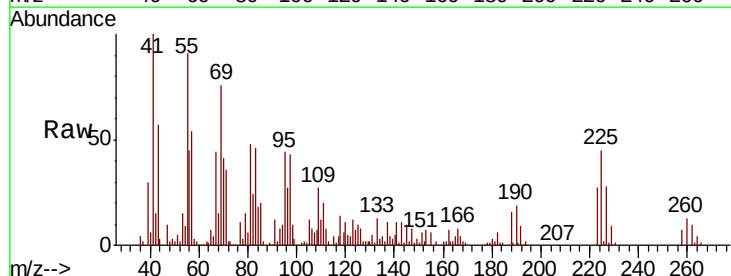


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

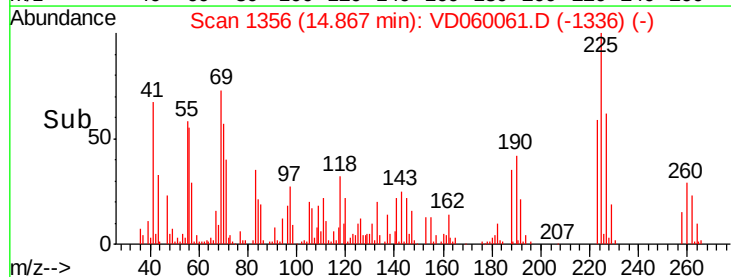
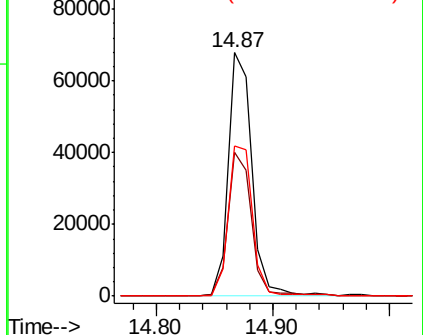


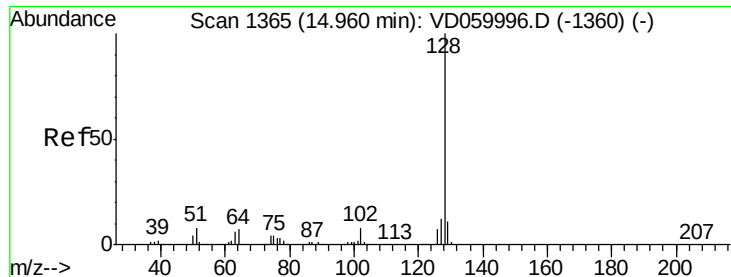
#94
 Hexachlorobutadiene
 Concen: 13.72 ug/l
 RT: 14.87 min Scan# 1356
 Delta R.T. -0.00 min
 Lab File: VD060061.D
 Acq: 20 Sep 2018 21:25

Tgt Ion	Ratio	Lower	Upper
225	100		
223	59.0	31.2	93.6
227	61.9	32.3	96.8



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

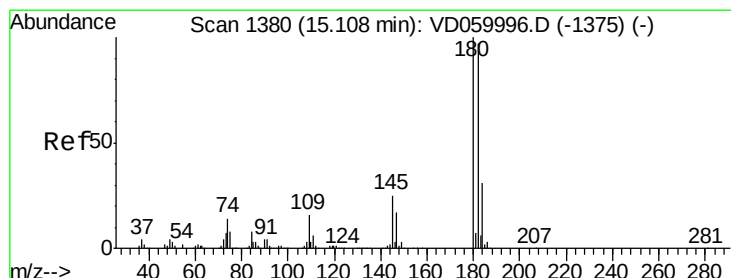
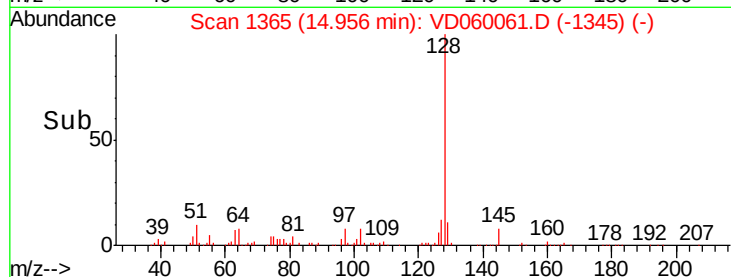
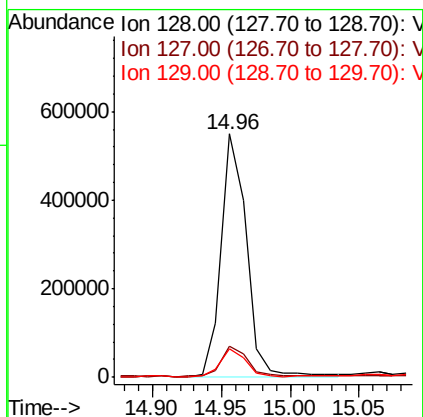
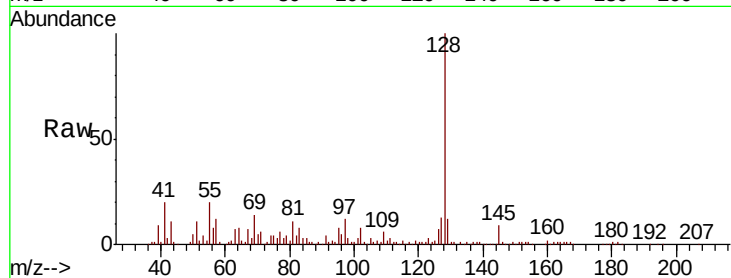




#95
Naphthalene
Concen: 43.00 ug/l
RT: 14.96 min Scan# 1365
Delta R.T. -0.00 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-NW-061MSD

Tot Ion:128 Resp: 695373
Ion Ratio Lower Upper
128 100
127 12.9 9.7 14.5
129 12.0 8.9 13.3



#96
1,2,3-Trichlorobenzene
Concen: 1.07 ug/l
RT: 15.02 min Scan# 1372
Delta R.T. -0.08 min
Lab File: VD060061.D
Acq: 20 Sep 2018 21:25

Tgt Ion:180 Resp: 9856
Ion Ratio Lower Upper
180 100
182 79.9 48.6 145.9
145 14.6 12.7 38.1

