

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD030519\
 Data File : VD060941.D
 Acq On : 5 Mar 2019 11:19
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Quant Time: Mar 06 04:15:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030119S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 02 01:28:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	717571	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.22	114	1274482	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	1018414	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	446402	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	318806	53.74	ug/l	0.02
Spiked Amount			Recovery	=	107.48%	
35) Dibromofluoromethane	6.93	113	502399	49.17	ug/l	0.02
Spiked Amount			Recovery	=	98.34%	
50) Toluene-d8	10.42	98	1282359	50.44	ug/l	0.02
Spiked Amount			Recovery	=	100.88%	
62) 4-Bromofluorobenzene	13.56	95	459220	47.80	ug/l	0.00
Spiked Amount			Recovery	=	95.60%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.59	85	411567	51.763	ug/l	99
3) Chloromethane	1.76	50	310794	47.104	ug/l	97
4) Vinyl Chloride	1.86	62	300028	50.331	ug/l	99
5) Bromomethane	2.17	94	53571	50.877	ug/l	98
6) Chloroethane	2.29	64	83329	58.021	ug/l	96
7) Trichlorofluoromethane	2.54	101	411353	57.492	ug/l	100
8) Diethyl Ether	2.89	74	153025	48.489	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.16	101	525987	54.198	ug/l	97
10) Methyl Iodide	3.32	142	699798	50.077	ug/l	100
11) Tert butyl alcohol	4.08	59	123000	278.202	ug/l	97
12) 1,1-Dichloroethene	3.14	96	433985	52.719	ug/l	93
13) Acrolein	3.04	56	122316	199.777	ug/l	99
14) Allyl chloride	3.64	41	694759	51.743	ug/l	98
15) Acrylonitrile	4.21	53	407372	240.639	ug/l	99
16) Acetone	3.23	43	599685	302.772	ug/l	95
17) Carbon Disulfide	3.39	76	1476098	50.585	ug/l	100
18) Methyl Acetate	3.65	43	203570	50.195	ug/l	97
19) Methyl tert-butyl Ether	4.26	73	754727	52.124	ug/l	98
20) Methylene Chloride	3.83	84	440439	46.602	ug/l	99
21) trans-1,2-Dichloroethene	4.24	96	473104	52.791	ug/l	97
22) Diisopropyl ether	5.14	45	1390865	48.784	ug/l	99
23) Vinyl Acetate	5.07	43	3722555	248.630	ug/l	99
24) 1,1-Dichloroethane	5.00	63	756285	49.737	ug/l	99
25) 2-Butanone	6.09	43	624051	253.987	ug/l	98
26) 2,2-Dichloropropane	6.04	77	609923	53.996	ug/l	97
27) cis-1,2-Dichloroethene	6.06	96	495857	48.799	ug/l	99
28) Bromochloromethane	6.45	49	320360	50.159	ug/l #	94
29) Tetrahydrofuran	6.46	42	293804	232.311	ug/l	99
30) Chloroform	6.68	83	766832	51.997	ug/l	99
31) Cyclohexane	6.96	56	677058	51.699	ug/l	99
32) 1,1,1-Trichloroethane	6.88	97	667076	52.824	ug/l	99
36) 1,1-Dichloropropene	7.16	75	610369	52.088	ug/l	99
37) Ethyl Acetate	6.19	43	272497	45.237	ug/l	99
38) Carbon Tetrachloride	7.12	117	719997	57.192	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.87	83	683590	53.368	ug/l	97
40) Benzene	7.46	78	1510296	50.609	ug/l	100
41) Methacrylonitrile	6.46	41	190458m	50.610	ug/l	
42) 1,2-Dichloroethane	7.59	62	426302	50.771	ug/l	99
43) Isopropyl Acetate	9.25	43	397605	47.340	ug/l	98
44) Trichloroethene	8.55	130	528630	51.725	ug/l	98
45) 1,2-Dichloropropane	8.95	63	396379	50.171	ug/l	97
46) Dibromomethane	9.07	93	254410	49.924	ug/l	98
47) Bromodichloromethane	9.38	83	550777	49.548	ug/l	100
48) Methyl methacrylate	9.13	41	225723	47.836	ug/l	99
49) 1,4-Dioxane	9.09	88	48081	973.335	ug/l	97
51) 4-Methyl-2-Pentanone	10.31	43	1298633	253.963	ug/l	100
52) Toluene	10.52	92	921305	48.053	ug/l	99
53) t-1,3-Dichloropropene	10.92	75	529474	51.761	ug/l	99
54) cis-1,3-Dichloropropene	10.04	75	660521	52.074	ug/l	100
55) 1,1,2-Trichloroethane	11.20	97	320135	50.491	ug/l	100
56) Ethyl methacrylate	11.05	69	337952	50.279	ug/l	96
57) 1,3-Dichloropropane	11.41	76	466238	50.577	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.87	63	872150	242.953	ug/l	100
59) 2-Hexanone	11.54	43	885384	247.002	ug/l	99
60) Dibromochloromethane	11.69	129	476241	52.080	ug/l	99
61) 1,2-Dibromoethane	11.81	107	353153	47.412	ug/l	95
64) Tetrachloroethene	11.26	164	406395	52.129	ug/l	98
65) Chlorobenzene	12.41	112	1061364	46.810	ug/l	98
66) 1,1,1,2-Tetrachloroethane	12.51	131	437200	53.733	ug/l	98
67) Ethyl Benzene	12.52	91	1829454	55.414	ug/l	99
68) m/p-Xylenes	12.67	106	1257920	95.367	ug/l	95
69) o-Xylene	13.06	106	641080	51.740	ug/l	94
70) Styrene	13.08	104	1006021	48.665	ug/l	98
71) Bromoform	13.23	173	261800	50.836	ug/l	99
73) Isopropylbenzene	13.41	105	1615005	46.825	ug/l	99
74) N-amyl acetate	13.27	43	503206	48.842	ug/l	98
75) 1,1,2,2-Tetrachloroethane	13.71	83	362999	50.747	ug/l	99
76) 1,2,3-Trichloropropane	13.74	75	382225	52.845	ug/l	99
77) Bromobenzene	13.68	156	459488	50.969	ug/l	99
78) n-propylbenzene	13.77	91	2077459	52.354	ug/l	98
79) 2-Chlorotoluene	13.84	91	1101680	48.613	ug/l	99
80) 1,3,5-Trimethylbenzene	14.24	105	1446019	55.284	ug/l	99
81) trans-1,4-Dichloro-2-buten	13.48	75	115674	54.038	ug/l	97
82) 4-Chlorotoluene	13.95	91	1279159	51.462	ug/l	100
83) tert-Butylbenzene	14.20	119	1613191	53.868	ug/l	99
84) 1,2,4-Trimethylbenzene	14.24	105	1446019	55.284	ug/l	99
85) sec-Butylbenzene	14.37	105	1848935	53.256	ug/l	94
86) p-Isopropyltoluene	14.49	119	1367334	48.353	ug/l	98
87) 1,3-Dichlorobenzene	14.45	146	828699	54.107	ug/l	95
88) 1,4-Dichlorobenzene	14.54	146	835808	54.951	ug/l	99
89) n-Butylbenzene	14.80	91	1332442	55.316	ug/l	100
90) Hexachloroethane	15.02	117	440605	54.027	ug/l	96
91) 1,2-Dichlorobenzene	14.81	146	652952	49.205	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	15.38	75	46282	55.294	ug/l	62

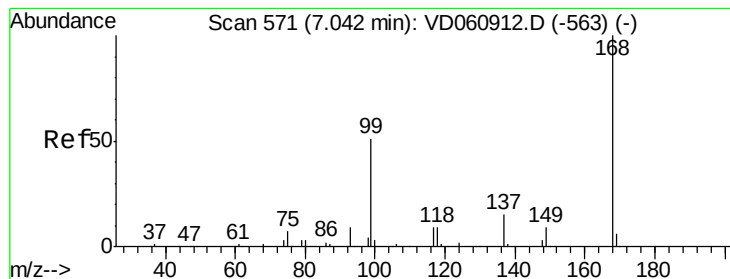
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.95	180	376682	48.886	ug/l	99
94) Hexachlorobutadiene	16.04	225	269099	54.411	ug/l	98
95) Naphthalene	16.13	128	511263	42.609	ug/l	99
96) 1,2,3-Trichlorobenzene	16.28	180	204550	47.271	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 573

Delta R.T. 0.02 min

Lab File: VD060941.D

Acq: 5 Mar 2019 11:19

Instrument :

MSVOA_D

ClientSampleId :

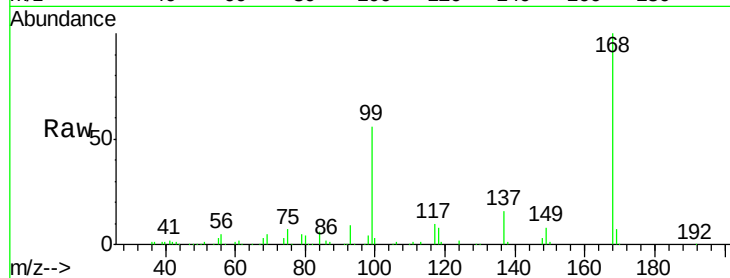
VSTDCCC050

Tot Ion:168 Resp: 717571

Ion Ratio Lower Upper

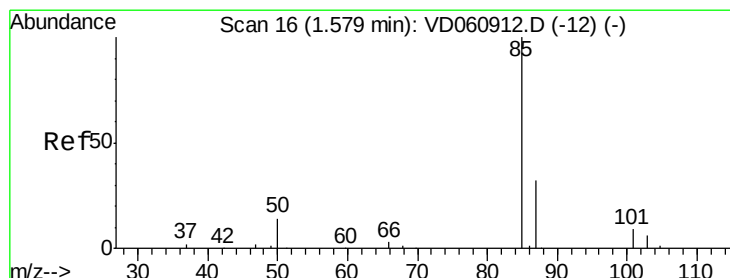
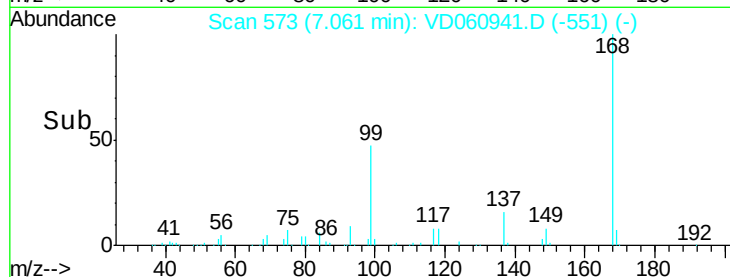
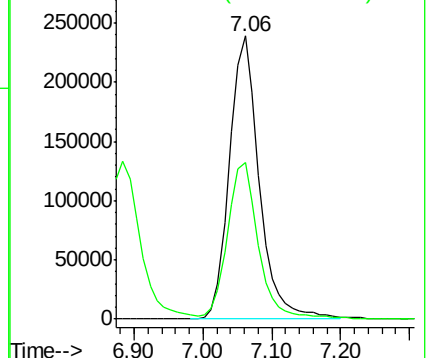
168 100

99 55.6 41.5 62.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 51.763 ug/l

RT: 1.59 min Scan# 17

Delta R.T. 0.01 min

Lab File: VD060941.D

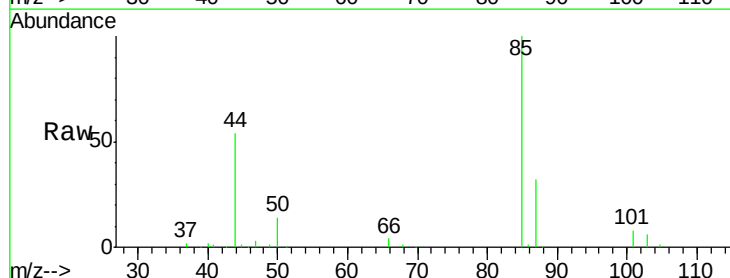
Acq: 5 Mar 2019 11:19

Tgt Ion: 85 Resp: 411567

Ion Ratio Lower Upper

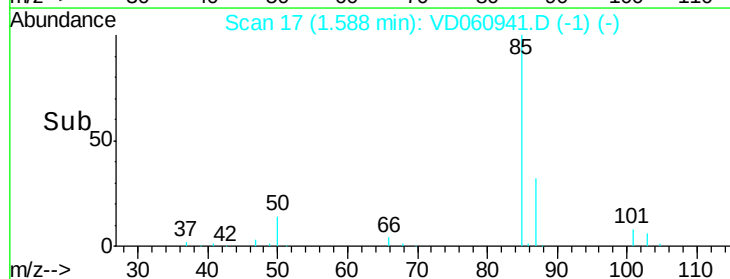
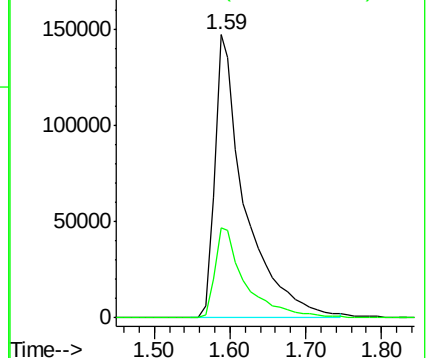
85 100

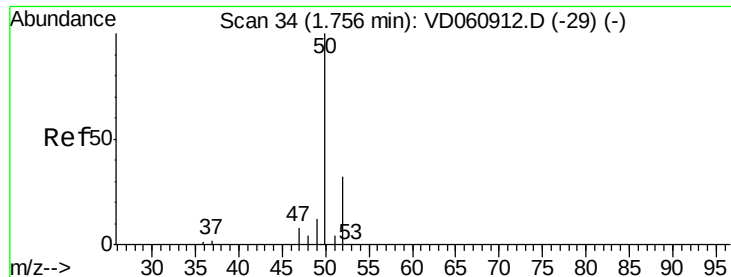
87 31.7 16.3 48.8



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 47.104 ug/l

RT: 1.76 min Scan# 35

Delta R.T. 0.01 min

Lab File: VD060941.D

Acq: 5 Mar 2019 11:19

Instrument :

MSVOA_D

ClientSampleId :

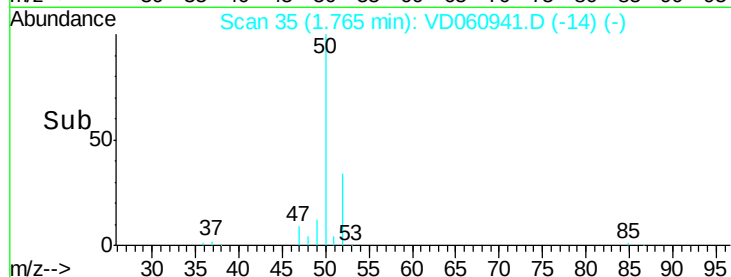
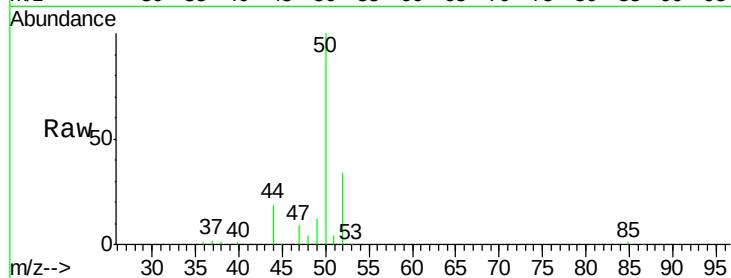
VSTDCCC050

Tot Ion: 50 Resp: 310794

Ion Ratio Lower Upper

50 100

52 33.9 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.76

80000

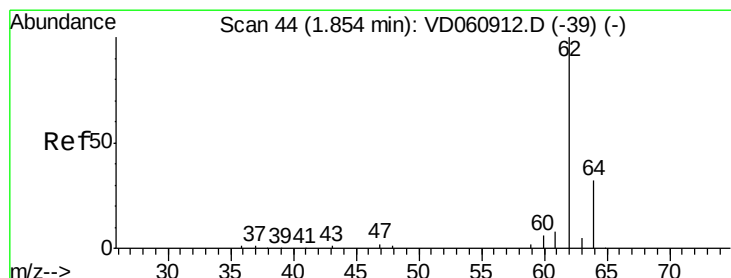
60000

40000

20000

0

Time-->



#4

Vinyl Chloride

Concen: 50.331 ug/l

RT: 1.86 min Scan# 45

Delta R.T. 0.01 min

Lab File: VD060941.D

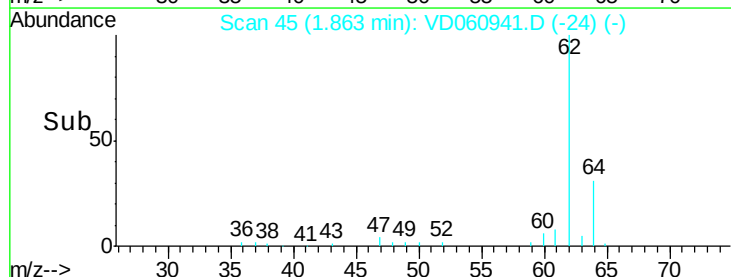
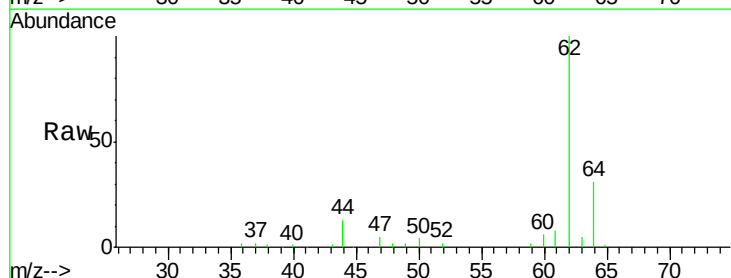
Acq: 5 Mar 2019 11:19

Tgt Ion: 62 Resp: 300028

Ion Ratio Lower Upper

62 100

64 31.4 25.4 38.2



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

1.86

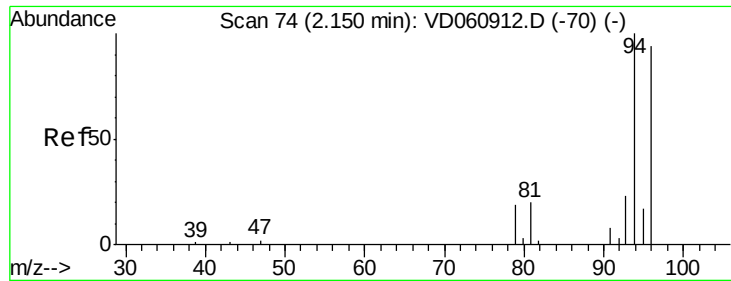
150000

100000

50000

0

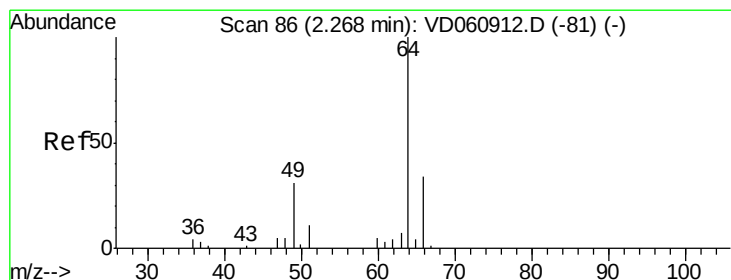
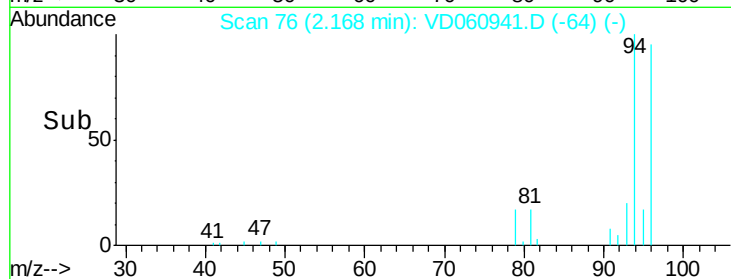
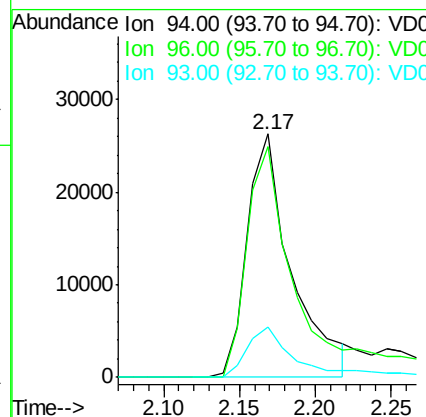
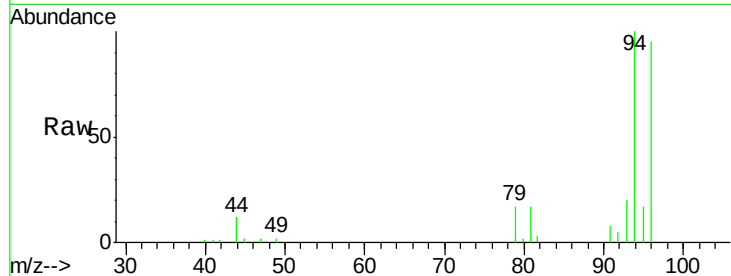
Time-->



#5
Bromomethane
Concen: 50.877 ug/l
RT: 2.17 min Scan# 76
Delta R.T. 0.02 min
Lab File: VD060941.D
Acq: 5 Mar 2019 11:19

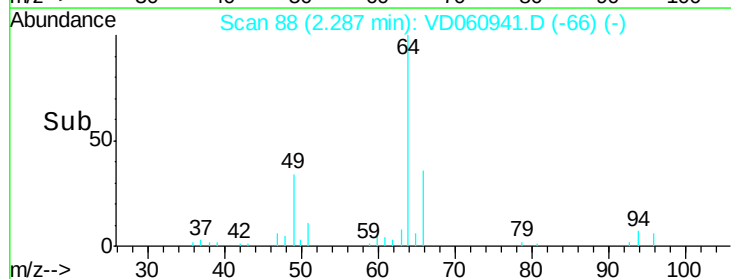
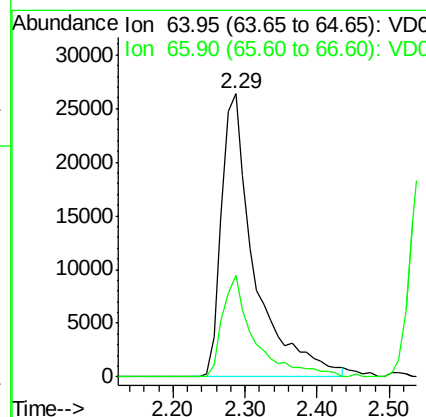
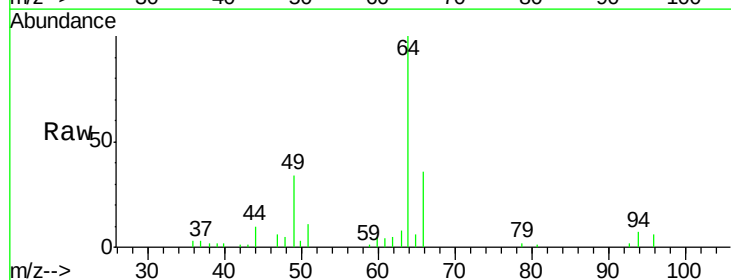
Instrument :
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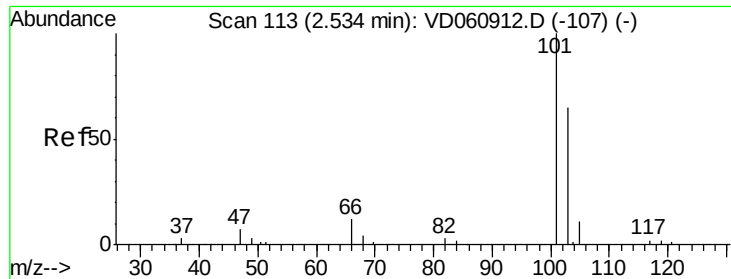
Tot Ion: 94 Resp: 53571
Ion Ratio Lower Upper
94 100
96 94.6 75.1 112.7
93 20.4 18.6 28.0



#6
Chloroethane
Concen: 58.021 ug/l
RT: 2.29 min Scan# 88
Delta R.T. 0.02 min
Lab File: VD060941.D
Acq: 5 Mar 2019 11:19

Tgt Ion: 64 Resp: 83329
Ion Ratio Lower Upper
64 100
66 36.0 27.0 40.6



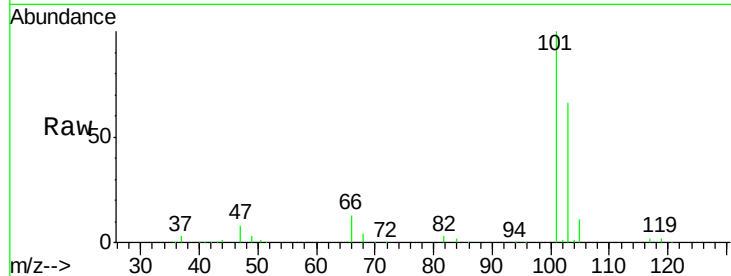


#7

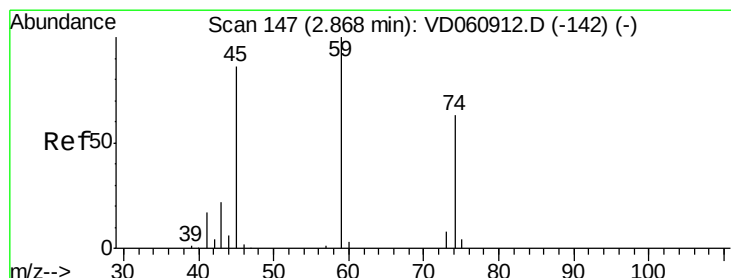
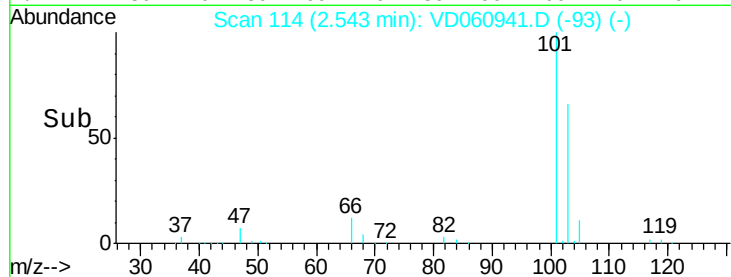
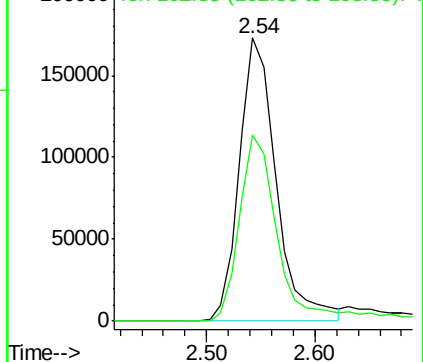
Trichlorofluoromethane
Concen: 57.492 ug/l
RT: 2.54 min Scan# 114
Delta R.T. 0.01 min
Lab File: VD060941.D
Acq: 5 Mar 2019 11:19

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:101 Resp: 411353
Ion Ratio Lower Upper
101 100
103 65.7 52.4 78.6



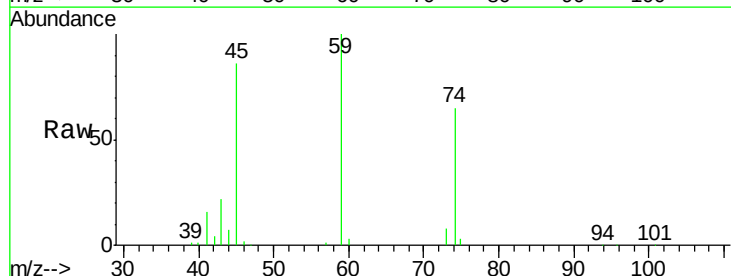
Abundance Ion 100.85 (100.55 to 101.55): V
Ion 102.85 (102.55 to 103.55): V



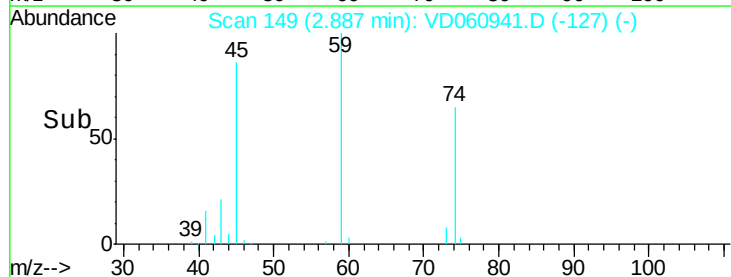
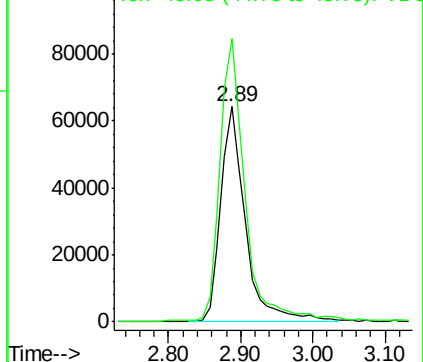
#8

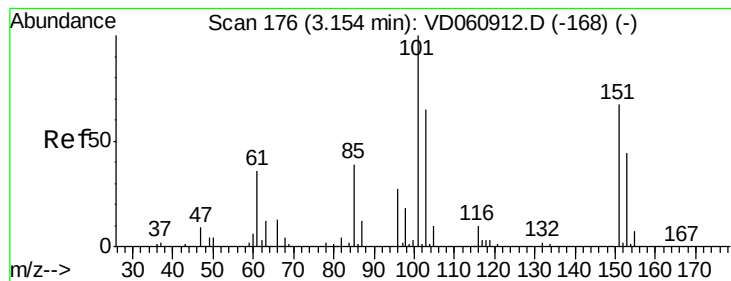
Diethyl Ether
Concen: 48.489 ug/l
RT: 2.89 min Scan# 149
Delta R.T. 0.02 min
Lab File: VD060941.D
Acq: 5 Mar 2019 11:19

Tgt Ion: 74 Resp: 153025
Ion Ratio Lower Upper
74 100
45 131.6 68.8 206.4



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: 54.198 ug/l

RT: 3.16 min Scan# 177

Delta R.T. 0.01 min

Lab File: VD060941.D

Acq: 5 Mar 2019 11:19

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

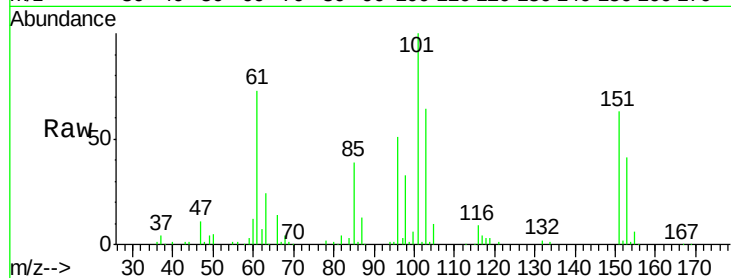
Tot Ion:101 Resp: 525987

Ion Ratio Lower Upper

101 100

85 38.7 31.0 46.6

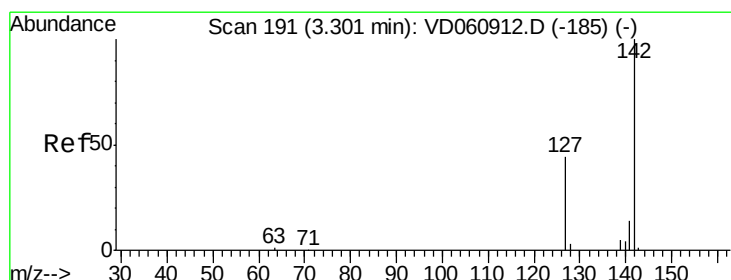
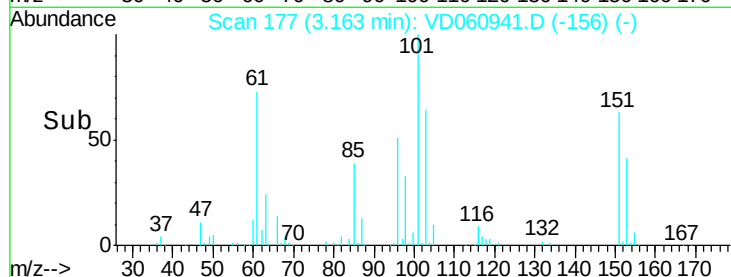
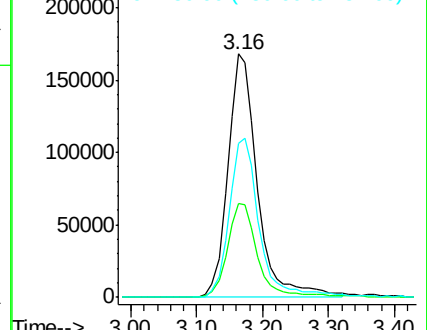
151 63.4 53.8 80.6



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: 50.077 ug/l

RT: 3.32 min Scan# 193

Delta R.T. 0.02 min

Lab File: VD060941.D

Acq: 5 Mar 2019 11:19

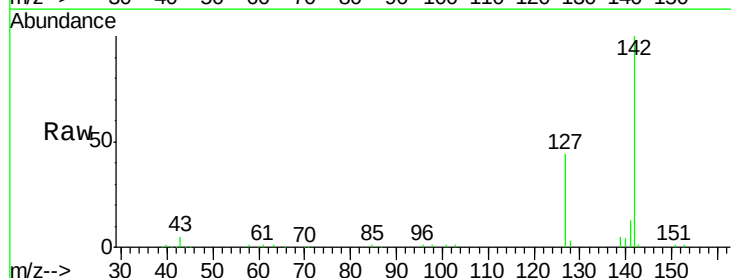
Tgt Ion:142 Resp: 699798

Ion Ratio Lower Upper

142 100

127 43.7 35.0 52.6

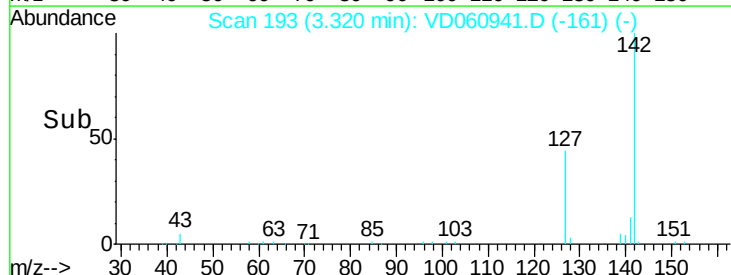
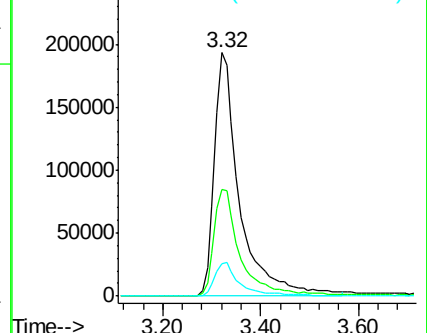
141 13.2 11.0 16.4

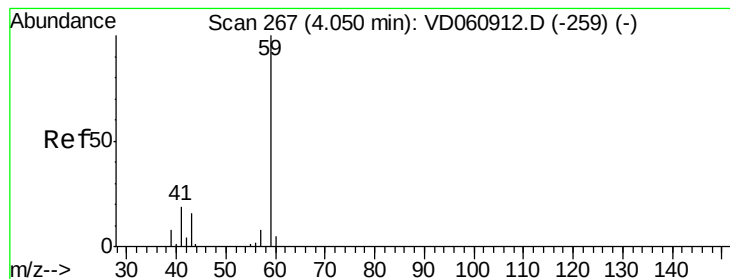


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V





#11

Tert butyl alcohol

Concen: 278.202 ug/l

RT: 4.08 min Scan# 270

Delta R.T. 0.03 min

Lab File: VD060941.D

Acq: 5 Mar 2019 11:19

Instrument :

MSVOA_D

ClientSampleId :

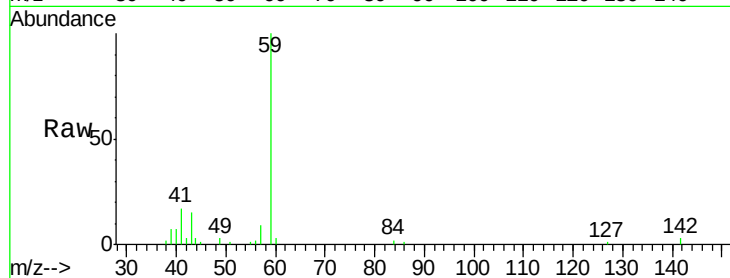
VSTDCCC050

Tot Ion: 59 Resp: 123000

Ion Ratio Lower Upper

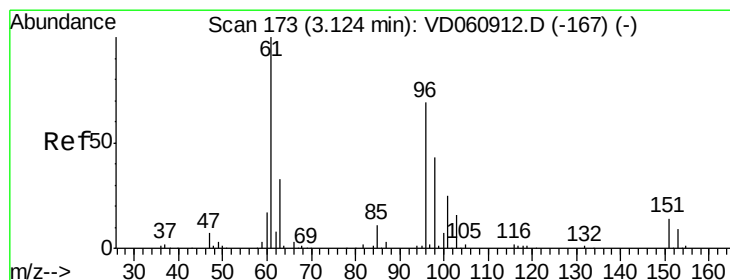
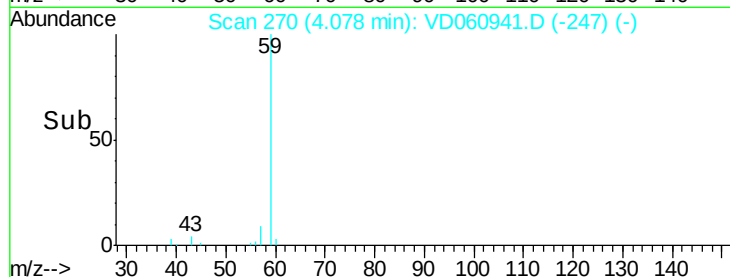
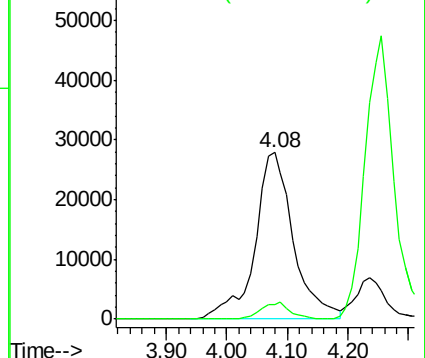
59 100

57 9.0 6.5 9.7



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC



#12

1,1-Dichloroethene

Concen: 52.719 ug/l

RT: 3.14 min Scan# 175

Delta R.T. 0.02 min

Lab File: VD060941.D

Acq: 5 Mar 2019 11:19

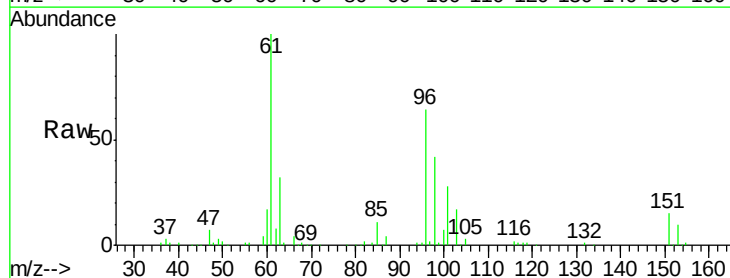
Tgt Ion: 96 Resp: 433985

Ion Ratio Lower Upper

96 100

61 156.5 116.4 174.6

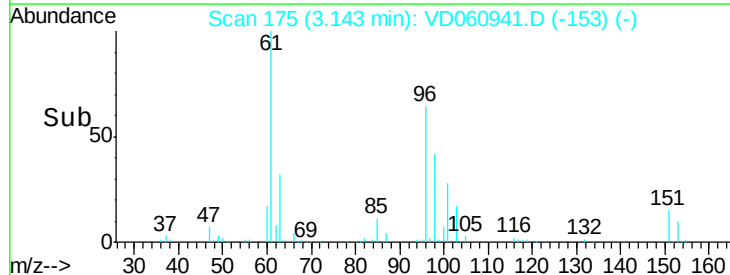
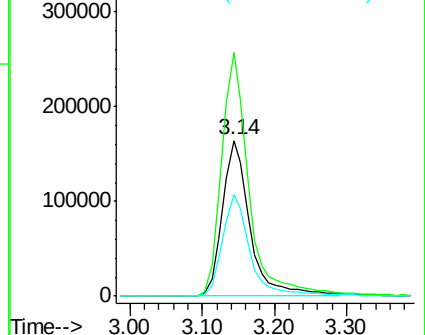
98 65.6 50.5 75.7

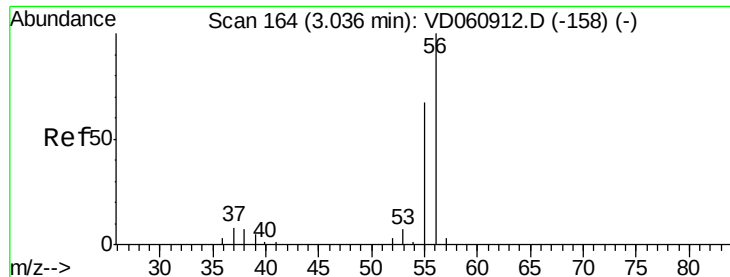


Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC

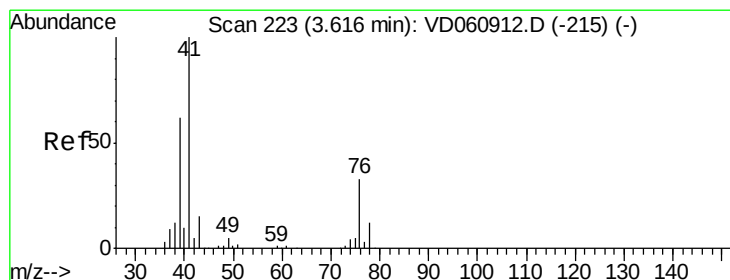
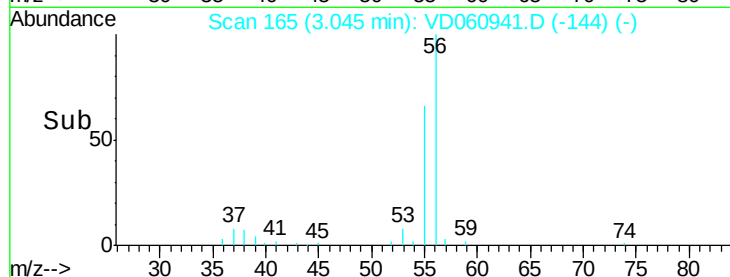
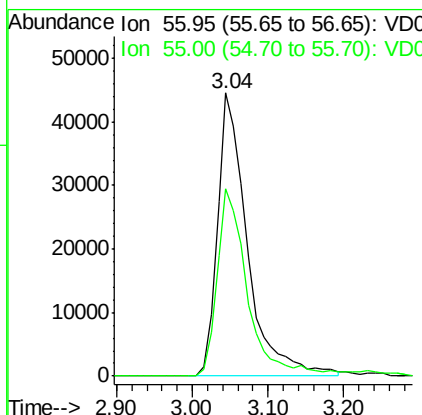
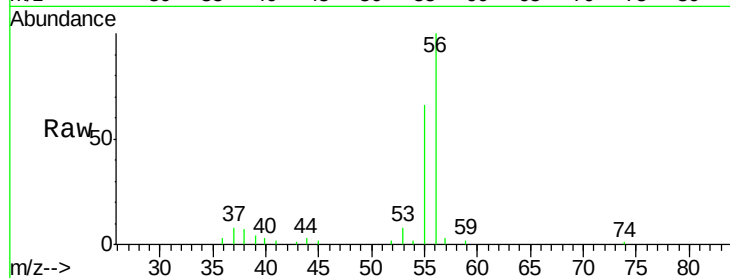




#13
Acrolein
Concen: 199.777 ug/l
RT: 3.04 min Scan# 165
Delta R.T. 0.01 min
Lab File: VD060941.D
Acq: 5 Mar 2019 11:19

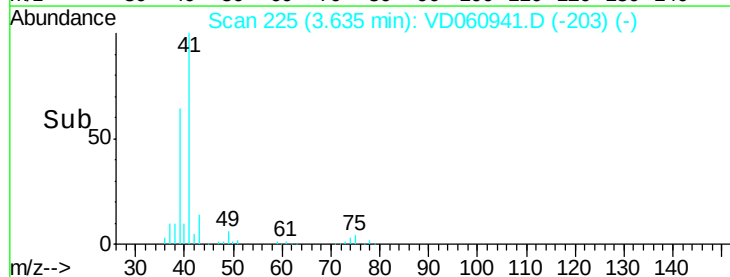
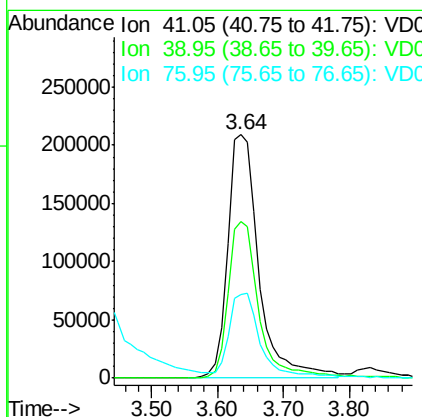
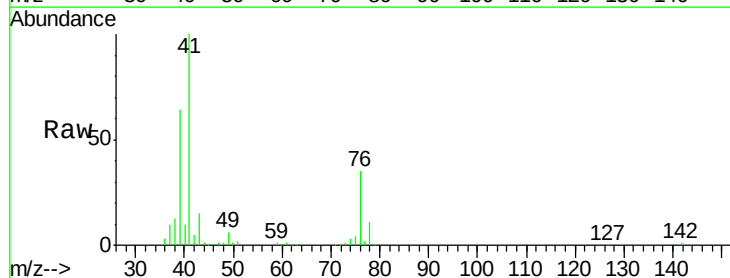
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

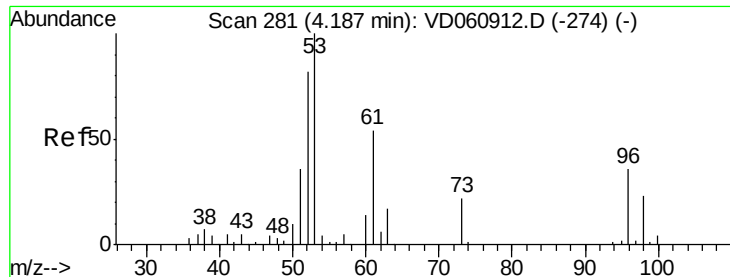
Tot Ion: 56 Resp: 122316
Ion Ratio Lower Upper
56 100
55 66.2 53.5 80.3



#14
Allyl chloride
Concen: 51.743 ug/l
RT: 3.64 min Scan# 225
Delta R.T. 0.02 min
Lab File: VD060941.D
Acq: 5 Mar 2019 11:19

Tgt Ion: 41 Resp: 694759
Ion Ratio Lower Upper
41 100
39 64.2 49.9 74.9
76 34.5 28.6 42.8





#15

Acrylonitrile

Concen: 240.639 ug/l

RT: 4.21 min Scan# 283

Delta R.T. 0.02 min

Lab File: VD060941.D

Acq: 5 Mar 2019 11:19

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

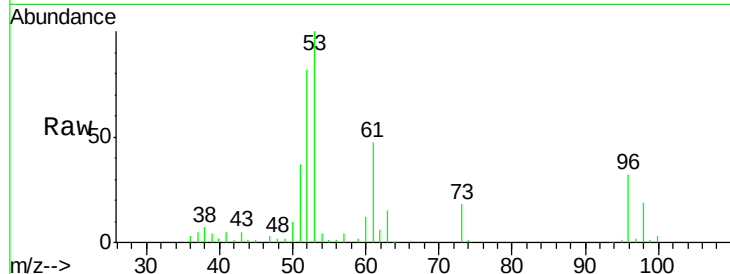
Tot Ion: 53 Resp: 407372

Ion Ratio Lower Upper

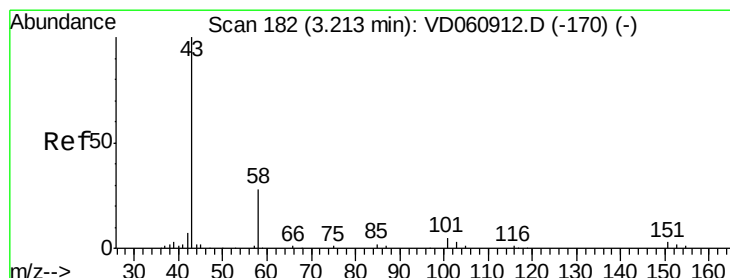
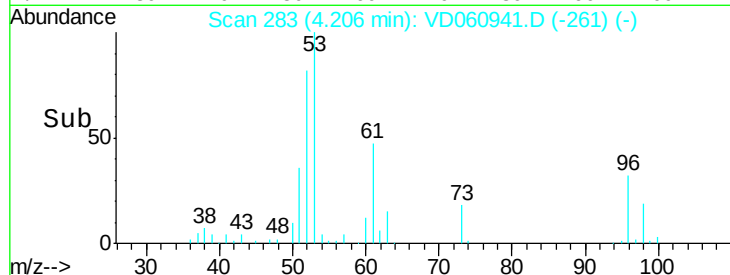
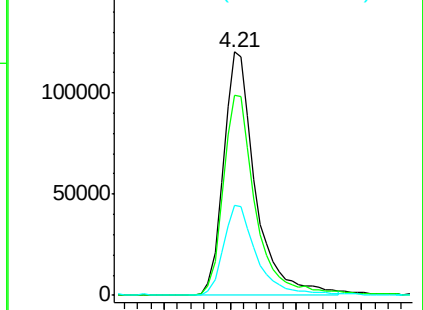
53 100

52 82.0 65.8 98.6

51 36.8 28.9 43.3



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: 302.772 ug/l

RT: 3.23 min Scan# 184

Delta R.T. 0.02 min

Lab File: VD060941.D

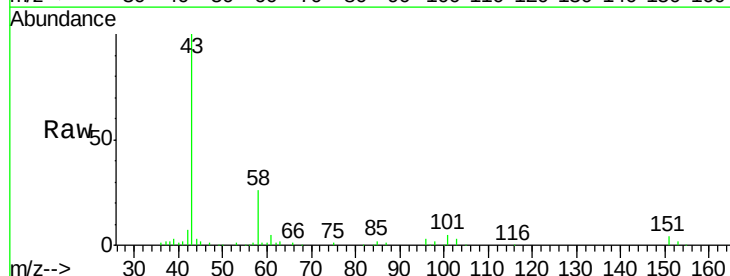
Acq: 5 Mar 2019 11:19

Tgt Ion: 43 Resp: 599685

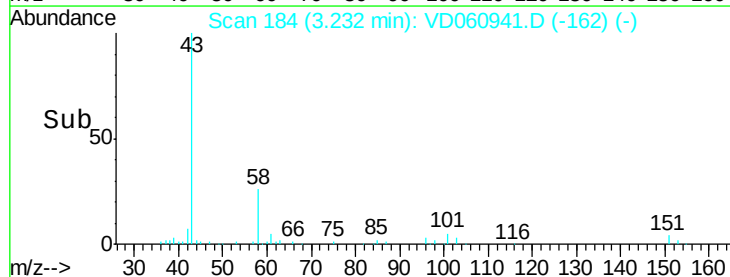
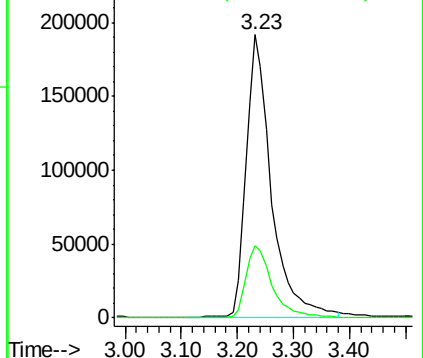
Ion Ratio Lower Upper

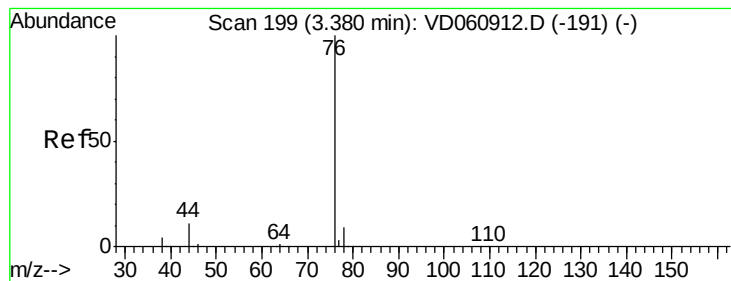
43 100

58 25.7 22.8 34.2



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





#17

Carbon Disulfide

Concen: 50.585 ug/l

RT: 3.39 min Scan# 200

Delta R.T. 0.01 min

Lab File: VD060941.D

Acq: 5 Mar 2019 11:19

Instrument :

MSVOA_D

ClientSampleId :

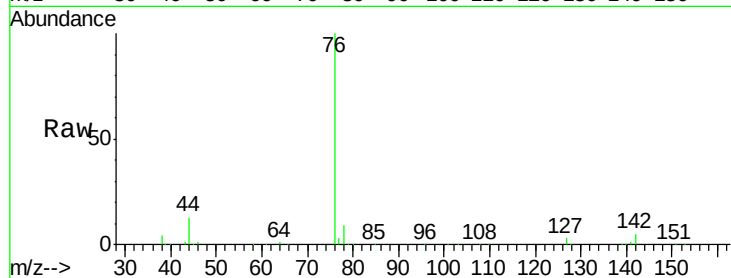
VSTDCCC050

Tot Ion: 76 Resp: 1476098

Ion Ratio Lower Upper

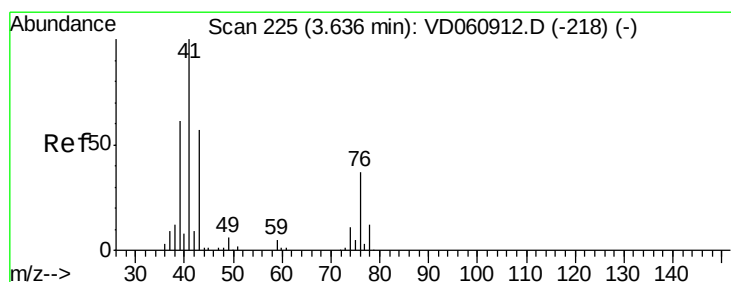
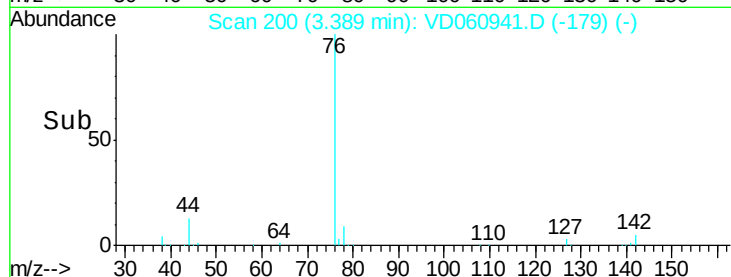
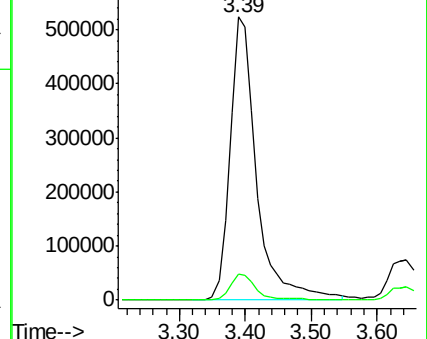
76 100

78 9.3 7.4 11.0



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 50.195 ug/l

RT: 3.65 min Scan# 227

Delta R.T. 0.02 min

Lab File: VD060941.D

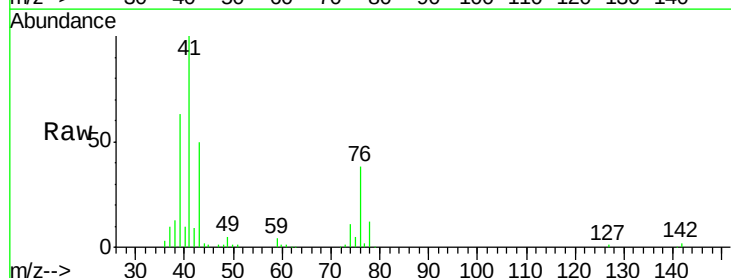
Acq: 5 Mar 2019 11:19

Tgt Ion: 43 Resp: 203570

Ion Ratio Lower Upper

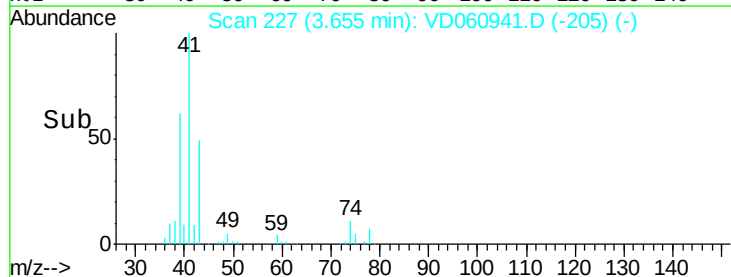
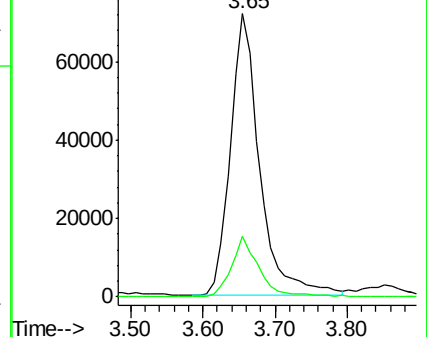
43 100

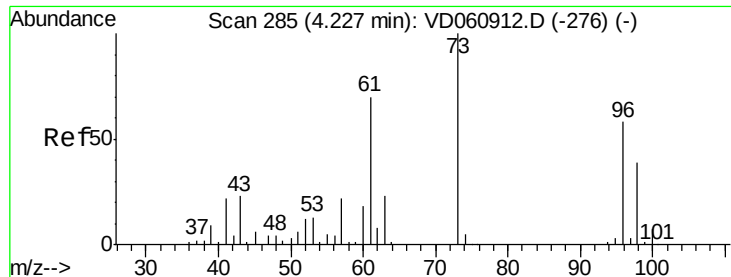
74 21.3 16.1 24.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

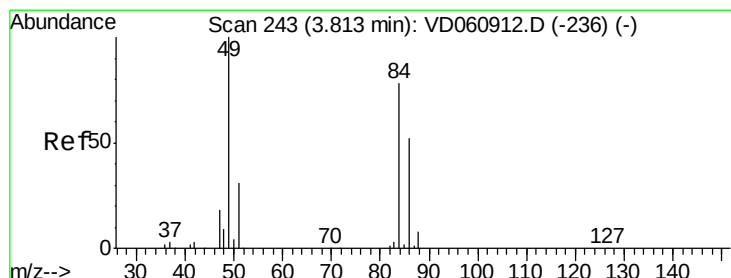
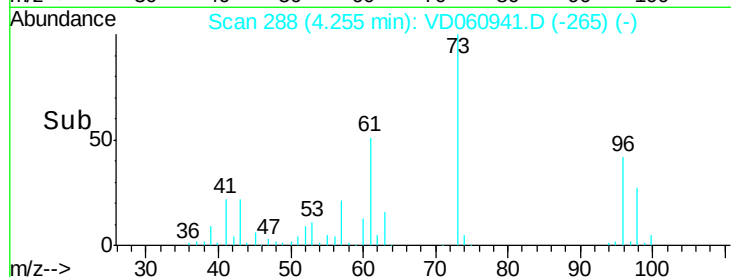
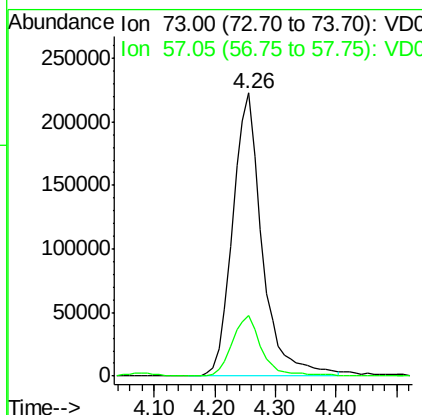
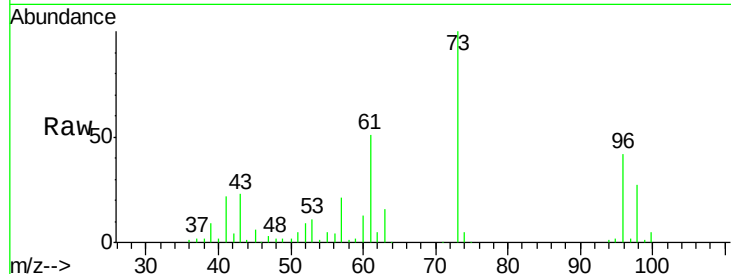




#19
Methyl tert-butyl Ether
Concen: 52.124 ug/l
RT: 4.26 min Scan# 288
Delta R.T. 0.03 min
Lab File: VD060941.D
Acq: 5 Mar 2019 11:19

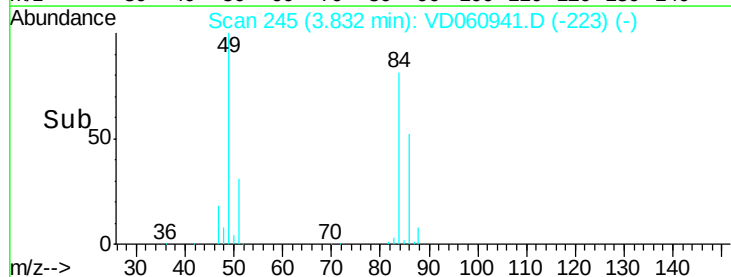
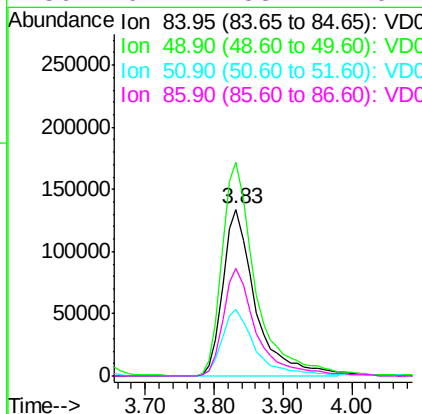
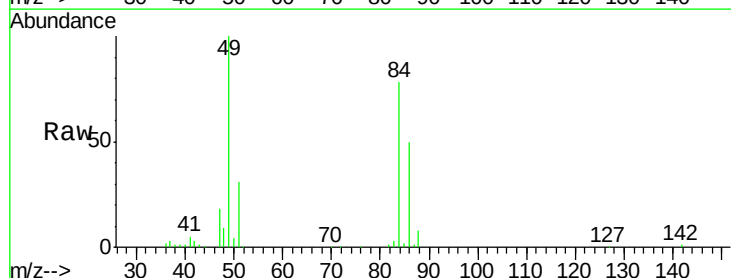
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

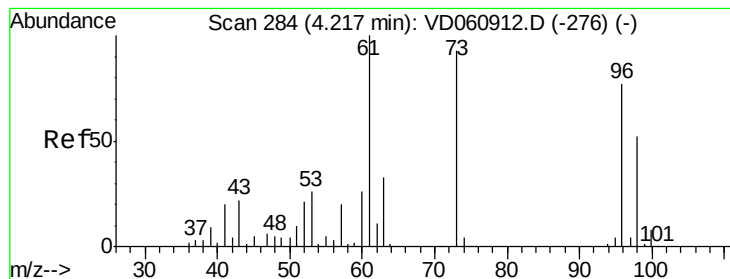
Tot Ion: 73 Resp: 754727
Ion Ratio Lower Upper
73 100
57 21.3 17.8 26.6



#20
Methylene Chloride
Concen: 46.602 ug/l
RT: 3.83 min Scan# 245
Delta R.T. 0.02 min
Lab File: VD060941.D
Acq: 5 Mar 2019 11:19

Tgt Ion: 84 Resp: 440439
Ion Ratio Lower Upper
84 100
49 128.1 102.4 153.6
51 39.6 31.9 47.9
86 64.4 53.1 79.7





#21

trans-1,2-Dichloroethene

Concen: 52.791 ug/l

RT: 4.24 min Scan# 286

Delta R.T. 0.02 min

Lab File: VD060941.D

Acq: 5 Mar 2019 11:19

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

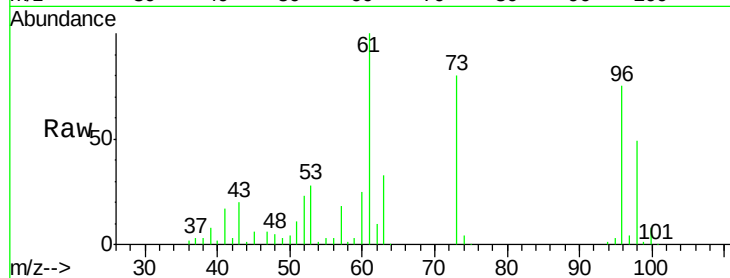
Tot Ion: 96 Resp: 473104

Ion Ratio Lower Upper

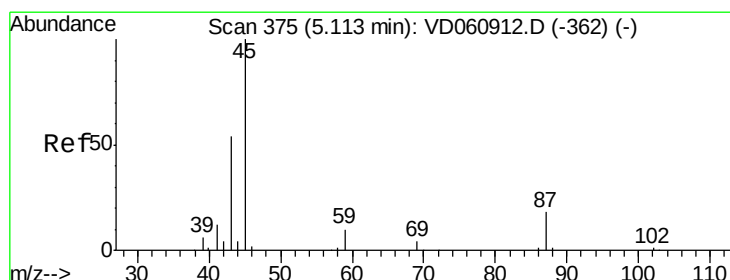
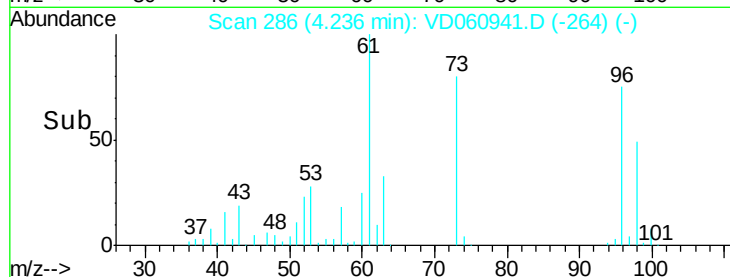
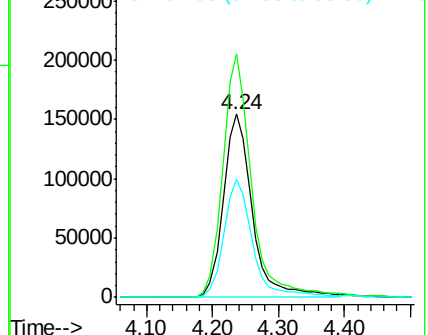
96 100

61 133.0 103.4 155.2

98 64.8 53.6 80.4



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



#22

Diisopropyl ether

Concen: 48.784 ug/l

RT: 5.14 min Scan# 378

Delta R.T. 0.03 min

Lab File: VD060941.D

Acq: 5 Mar 2019 11:19

Tgt Ion: 45 Resp: 1390865

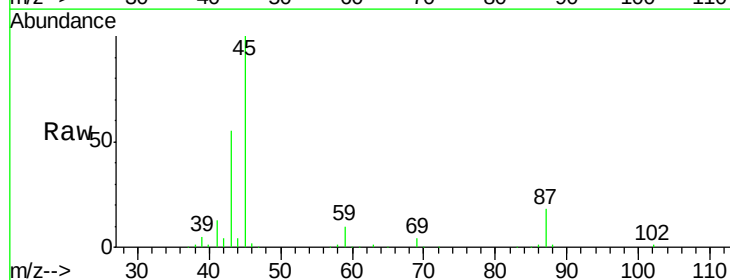
Ion Ratio Lower Upper

45 100

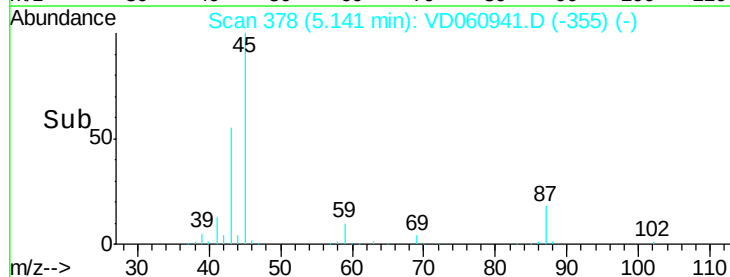
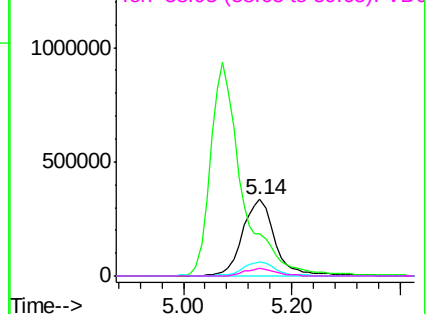
43 54.6 44.4 66.6

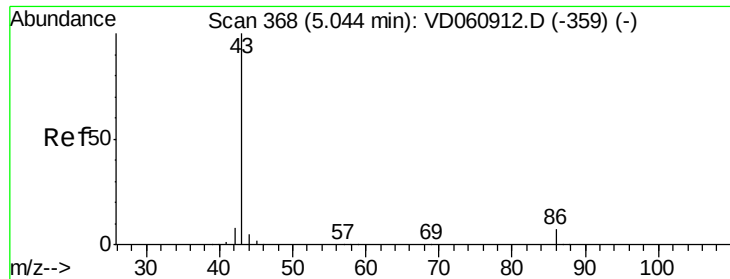
87 18.4 14.7 22.1

59 10.0 7.9 11.9



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





#23

Vinyl Acetate

Concen: 248.630 ug/l

RT: 5.07 min Scan# 371

Delta R.T. 0.03 min

Lab File: VD060941.D

Acq: 5 Mar 2019 11:19

Instrument :

MSVOA_D

ClientSampleId :

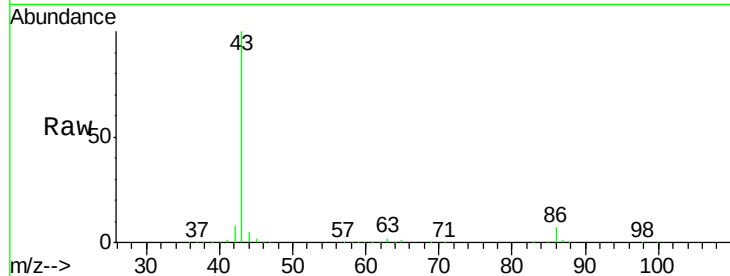
VSTDCCC050

Tot Ion: 43 Resp: 3722555

Ion Ratio Lower Upper

43 100

86 7.5 5.8 8.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC

5.07

1000000

800000

600000

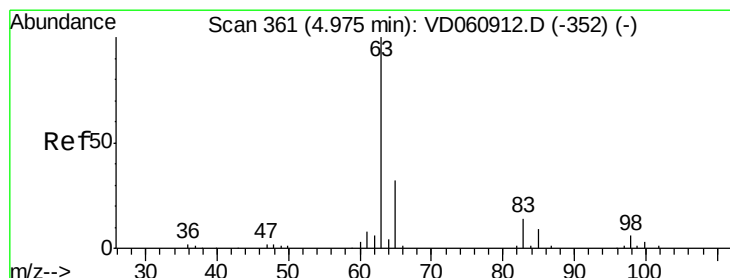
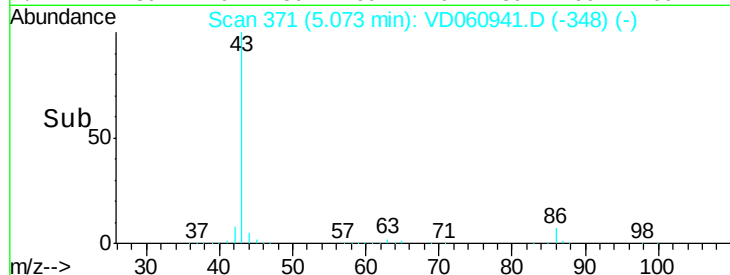
400000

200000

0

Time-->

4.90 5.00 5.10 5.20 5.30



#24

1,1-Dichloroethane

Concen: 49.737 ug/l

RT: 5.00 min Scan# 364

Delta R.T. 0.03 min

Lab File: VD060941.D

Acq: 5 Mar 2019 11:19

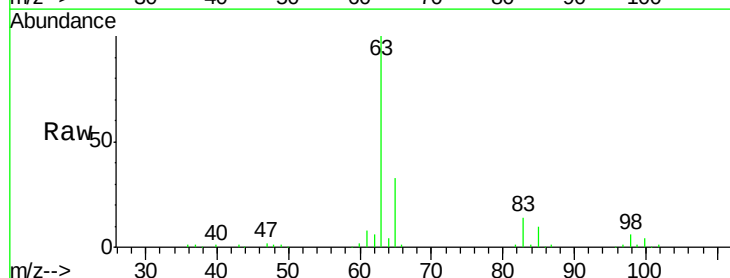
Tgt Ion: 63 Resp: 756285

Ion Ratio Lower Upper

63 100

98 6.2 2.9 8.8

100 4.2 1.7 5.1



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC

250000

200000

150000

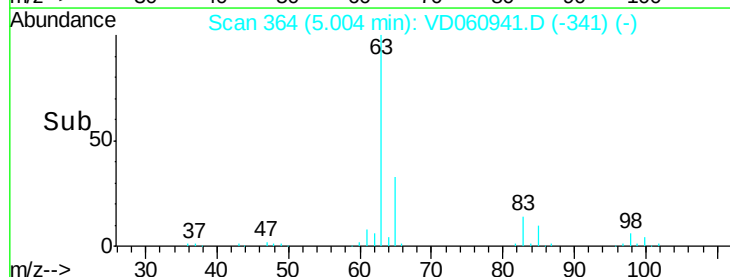
100000

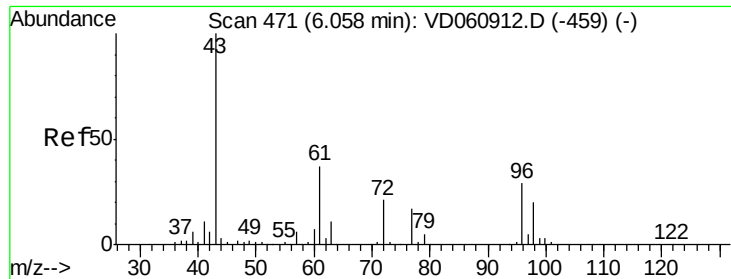
50000

0

Time-->

4.80 4.90 5.00 5.10 5.20





#25

2-Butanone

Concen: 253.987 ug/l

RT: 6.09 min Scan# 474

Delta R.T. 0.03 min

Lab File: VD060941.D

Acq: 5 Mar 2019 11:19

Instrument :

MSVOA_D

ClientSampleId :

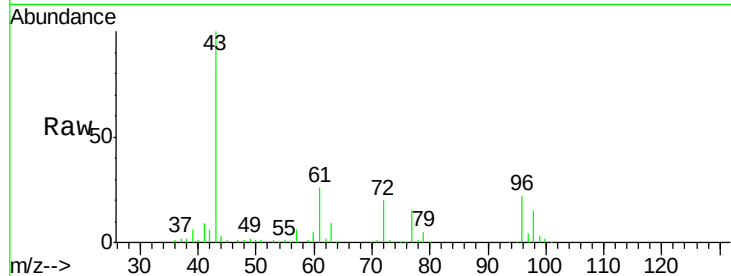
VSTDCCC050

Tot Ion: 43 Resp: 624051

Ion Ratio Lower Upper

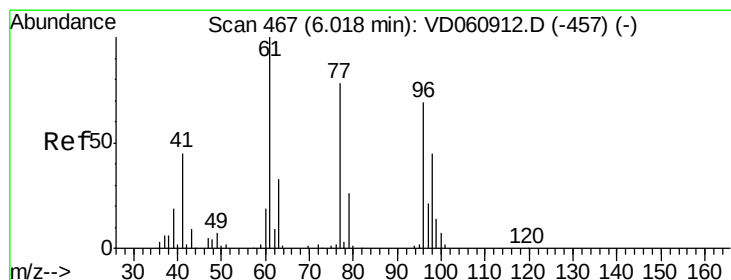
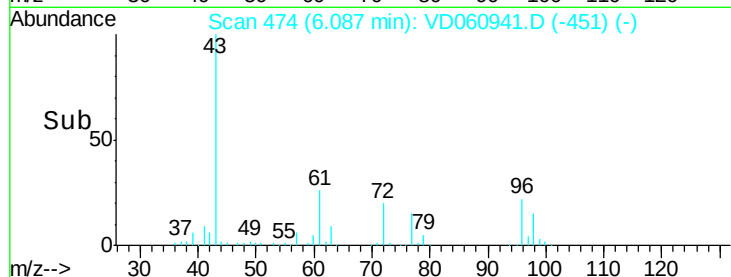
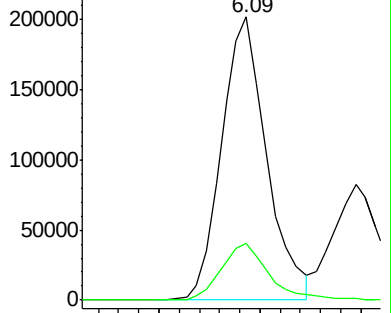
43 100

72 20.2 17.0 25.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 53.996 ug/l

RT: 6.04 min Scan# 469

Delta R.T. 0.02 min

Lab File: VD060941.D

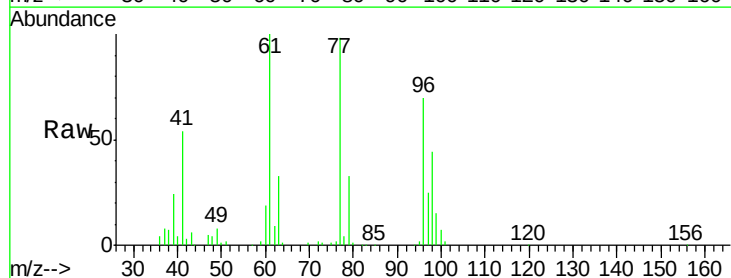
Acq: 5 Mar 2019 11:19

Tgt Ion: 77 Resp: 609923

Ion Ratio Lower Upper

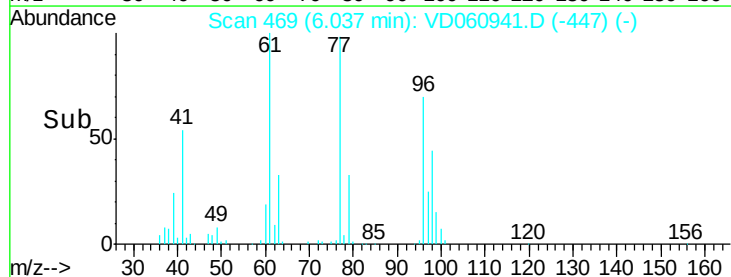
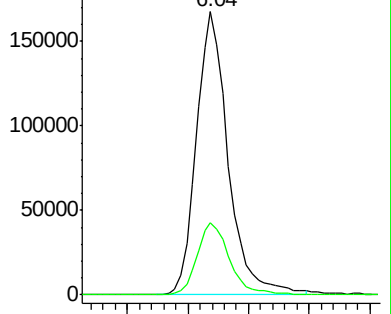
77 100

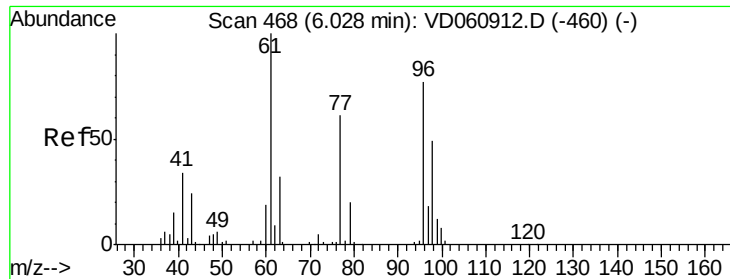
97 25.6 13.5 40.4



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



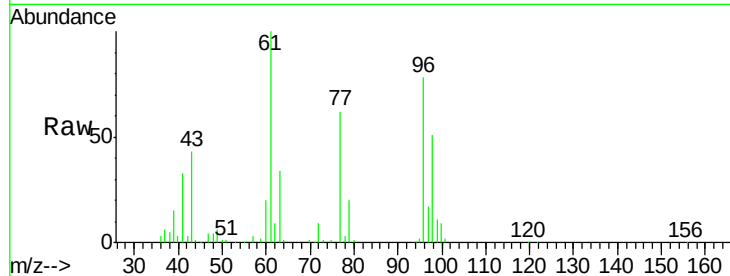


#27

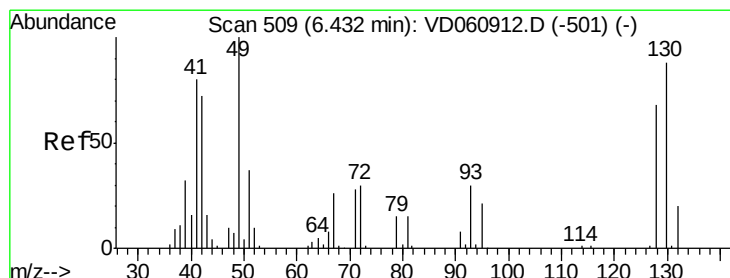
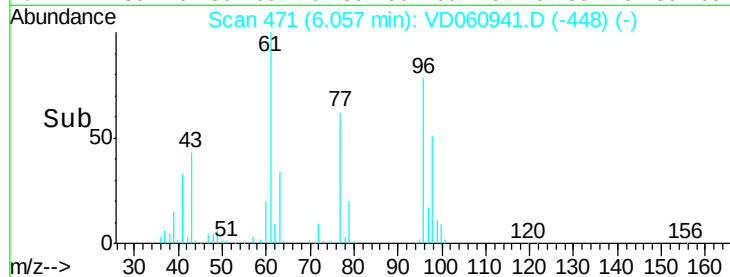
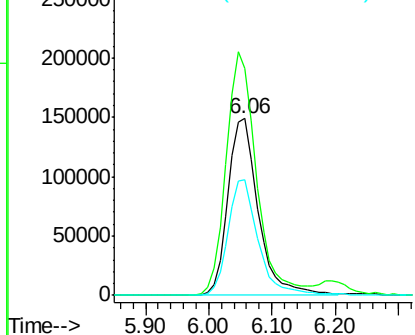
cis-1,2-Dichloroethene
Concen: 48.799 ug/l
RT: 6.06 min Scan# 471
Delta R.T. 0.03 min
Lab File: VD060941.D
Acq: 5 Mar 2019 11:19

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
96	100		
61	128.7	0.0	258.8
98	65.2	0.0	126.4



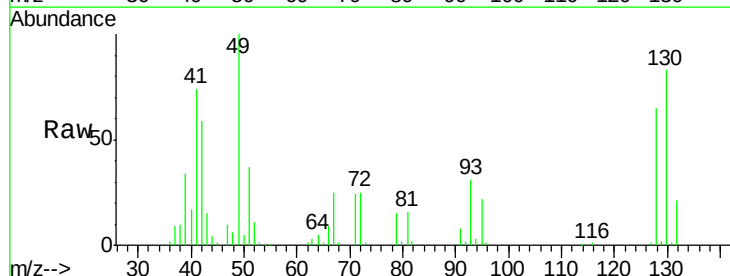
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



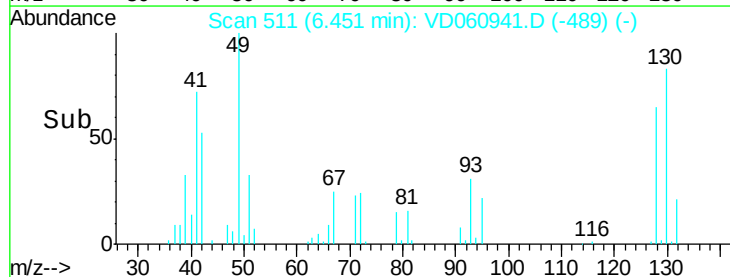
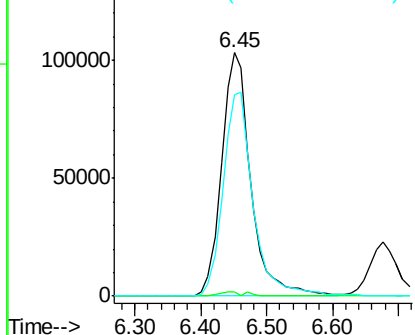
#28

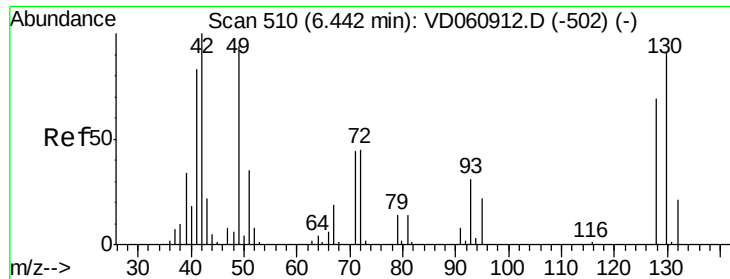
Bromochloromethane
Concen: 50.159 ug/l
RT: 6.45 min Scan# 511
Delta R.T. 0.02 min
Lab File: VD060941.D
Acq: 5 Mar 2019 11:19

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	0.0#
130	82.8	70.4	105.6



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

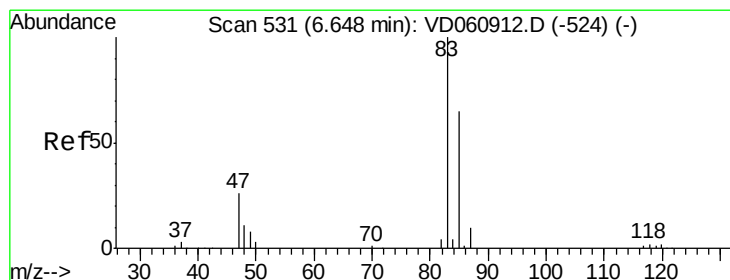
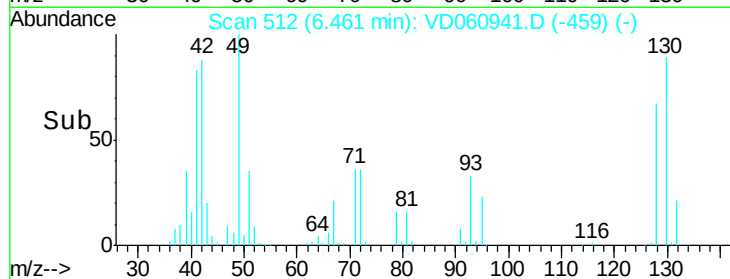
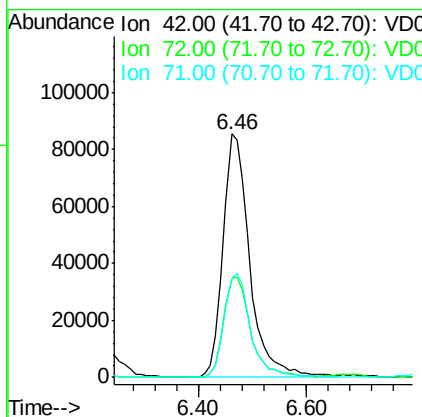
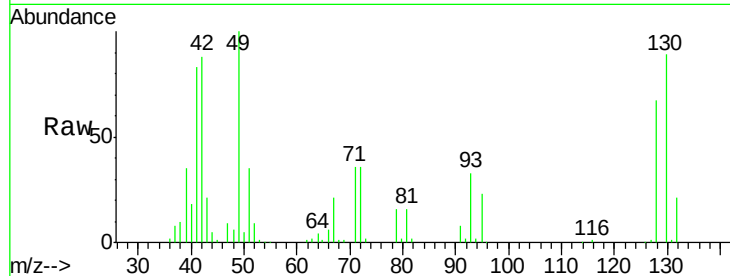




#29
Tetrahydrofuran
Concen: 232.311 ug/l
RT: 6.46 min Scan# 512
Delta R.T. 0.02 min
Lab File: VD060941.D
Acq: 5 Mar 2019 11:19

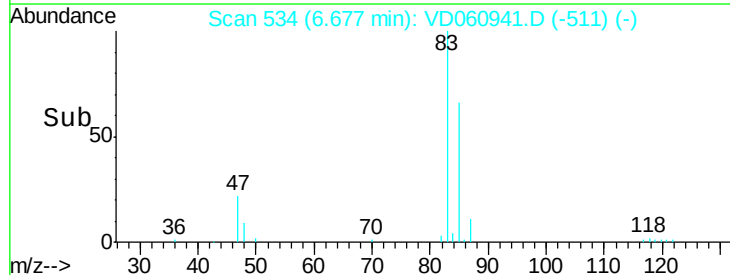
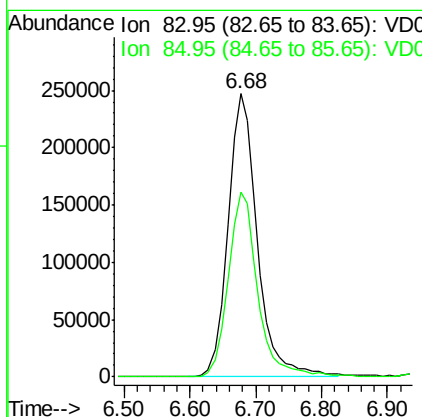
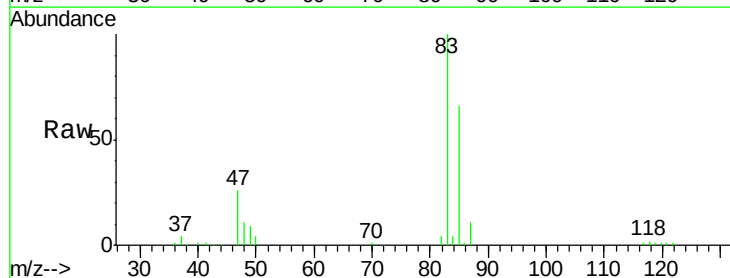
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

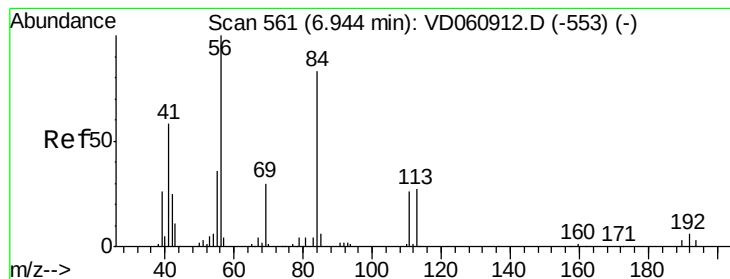
Tot Ion: 42 Resp: 293804
Ion Ratio Lower Upper
42 100
72 41.4 33.8 50.6
71 42.1 33.5 50.3



#30
Chloroform
Concen: 51.997 ug/l
RT: 6.68 min Scan# 534
Delta R.T. 0.03 min
Lab File: VD060941.D
Acq: 5 Mar 2019 11:19

Tgt Ion: 83 Resp: 766832
Ion Ratio Lower Upper
83 100
85 65.5 51.7 77.5





#31

Cyclohexane

Concen: 51.699 ug/l

RT: 6.96 min Scan# 563

Delta R.T. 0.02 min

Lab File: VD060941.D

Acq: 5 Mar 2019 11:19

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

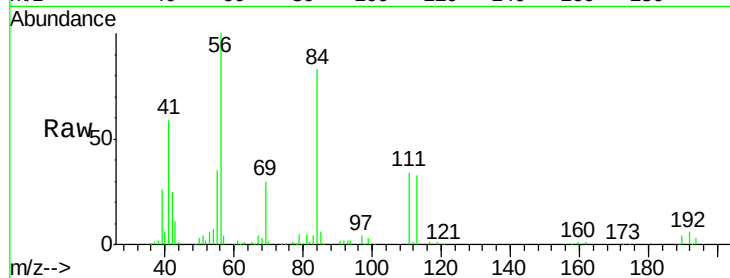
Tot Ion: 56 Resp: 677058

Ion Ratio Lower Upper

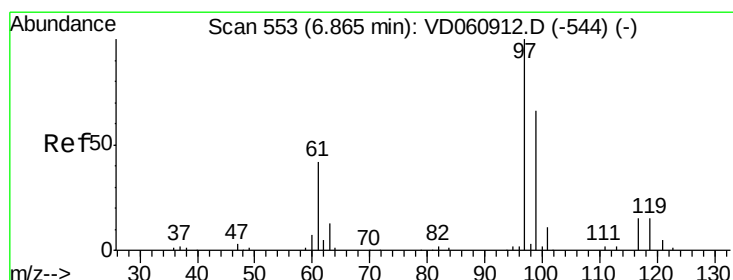
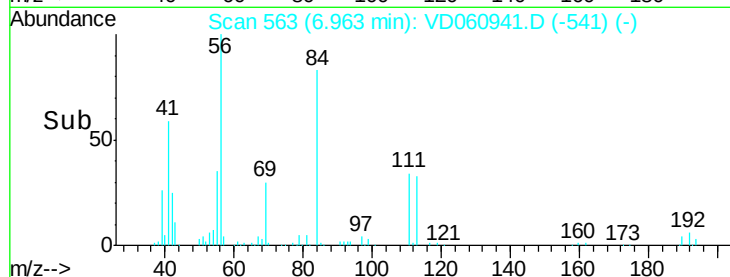
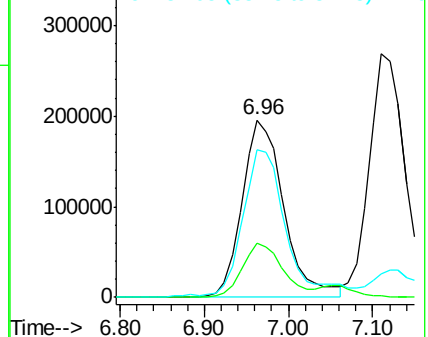
56 100

69 30.3 23.6 35.4

84 83.4 66.5 99.7



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC



#32

1,1,1-Trichloroethane

Concen: 52.824 ug/l

RT: 6.88 min Scan# 555

Delta R.T. 0.02 min

Lab File: VD060941.D

Acq: 5 Mar 2019 11:19

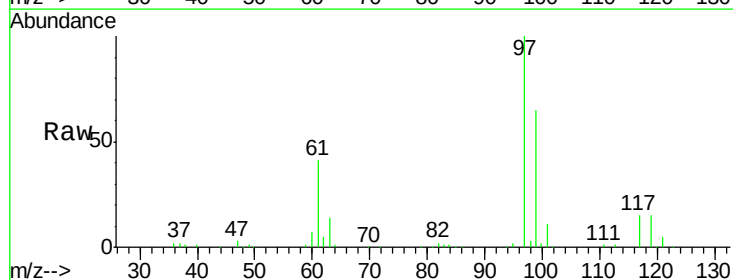
Tgt Ion: 97 Resp: 667076

Ion Ratio Lower Upper

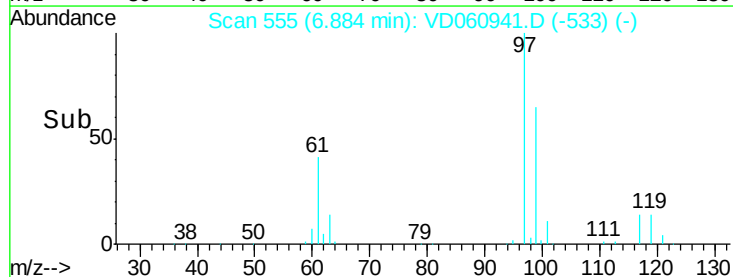
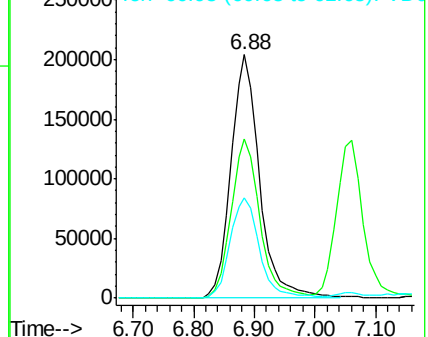
97 100

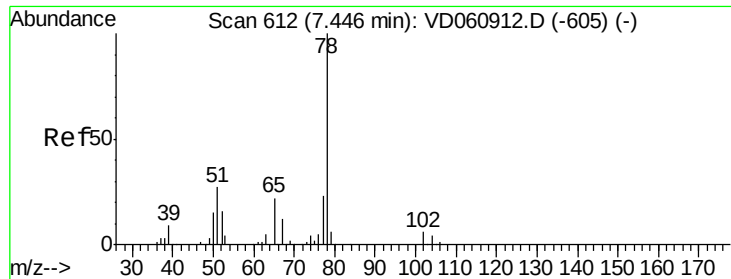
99 65.3 52.8 79.2

61 41.0 33.3 49.9



Abundance Ion 96.85 (96.55 to 97.55): VDC
Ion 98.85 (98.55 to 99.55): VDC
Ion 60.95 (60.65 to 61.65): VDC

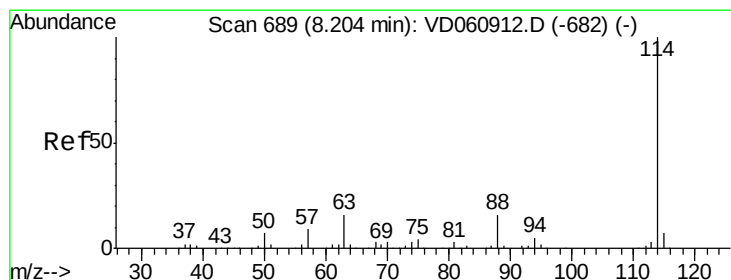
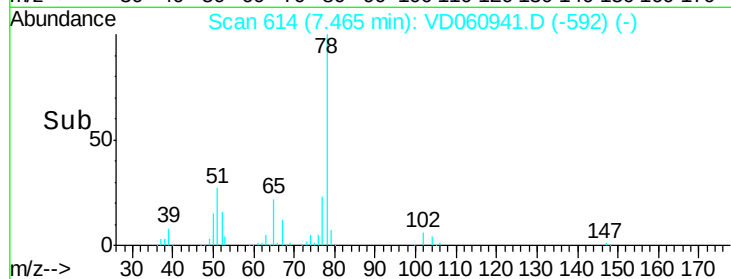
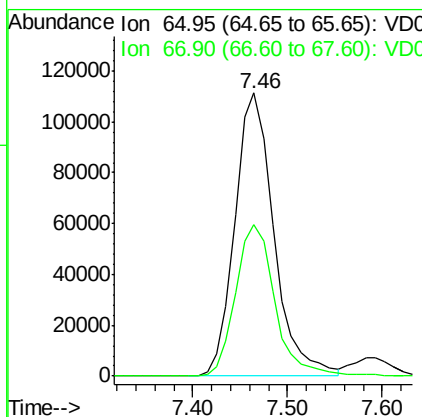
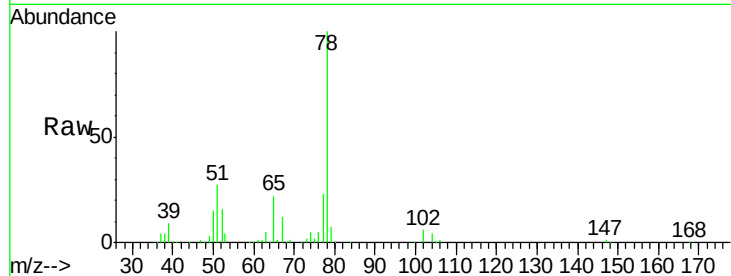




#33
 1,2-Dichloroethane-d4
 Concen: 52.824 ug/l
 RT: 7.46 min Scan# 614
 Delta R.T. 0.02 min
 Lab File: VD060941.D
 Acq: 5 Mar 2019 11:19

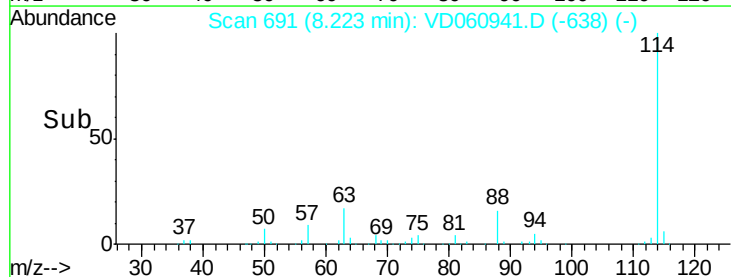
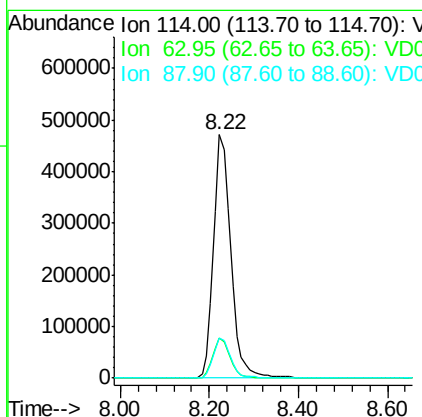
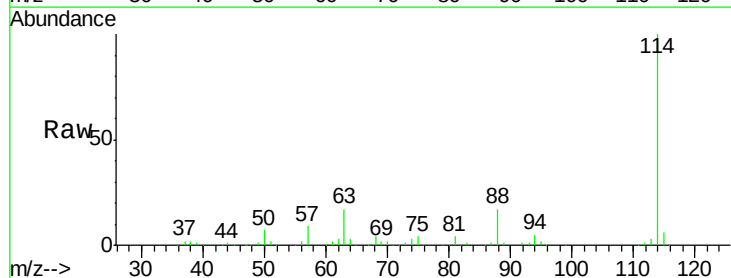
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

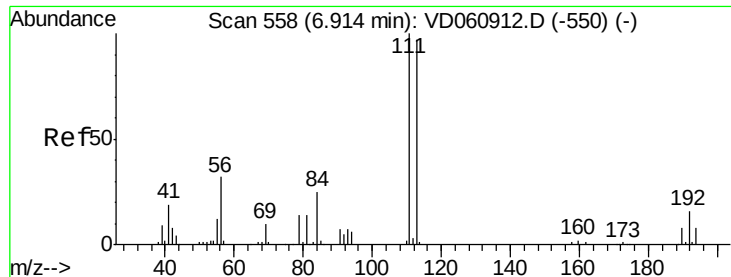
Tot Ion: 65 Resp: 318806
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 109.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 691
 Delta R.T. 0.02 min
 Lab File: VD060941.D
 Acq: 5 Mar 2019 11:19

Tgt Ion: 114 Resp: 1274482
 Ion Ratio Lower Upper
 114 100
 63 16.6 0.0 32.0
 88 16.6 0.0 32.8





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.93 min Scan# 560

Delta R.T. 0.02 min

Lab File: VD060941.D

Acq: 5 Mar 2019 11:19

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

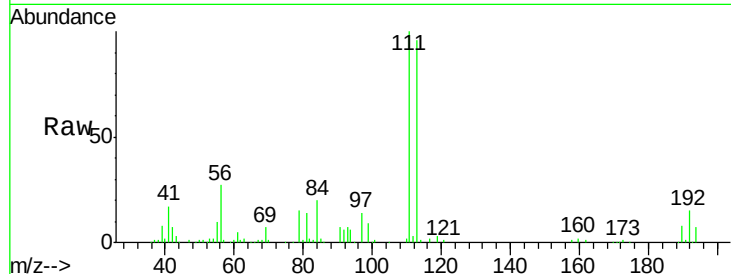
Tot Ion:113 Resp: 502399

Ion Ratio Lower Upper

113 100

111 104.3 82.6 124.0

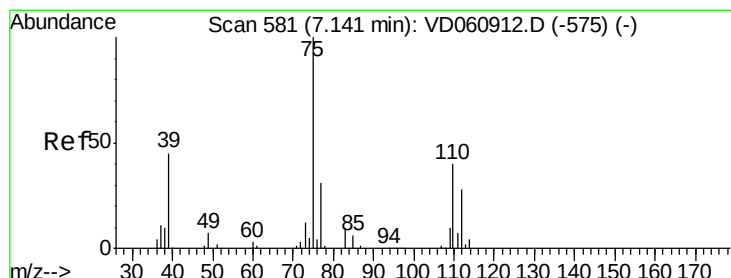
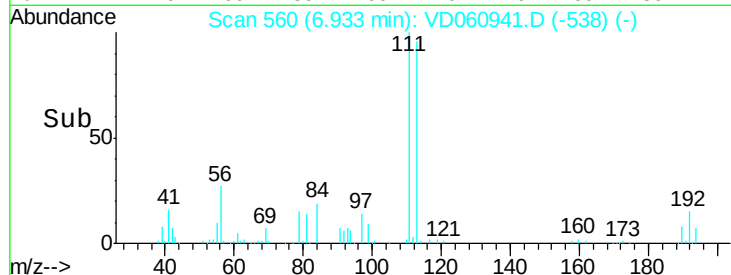
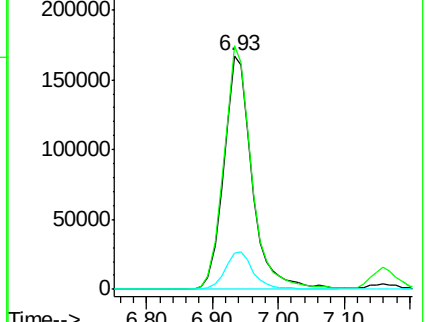
192 15.3 13.4 20.2



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 52.088 ug/l

RT: 7.16 min Scan# 583

Delta R.T. 0.02 min

Lab File: VD060941.D

Acq: 5 Mar 2019 11:19

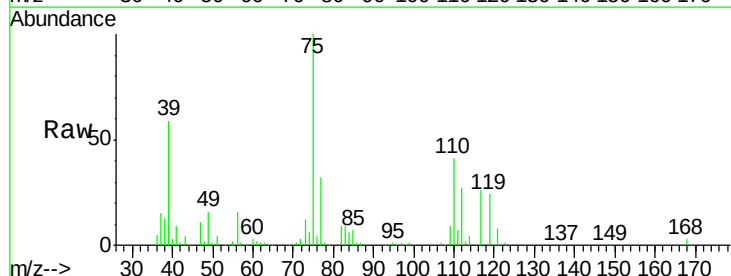
Tgt Ion: 75 Resp: 610369

Ion Ratio Lower Upper

75 100

110 40.5 19.9 59.7

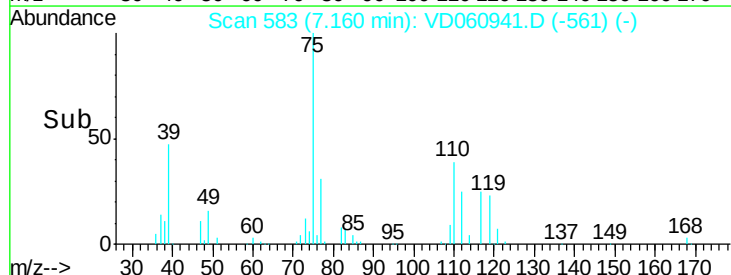
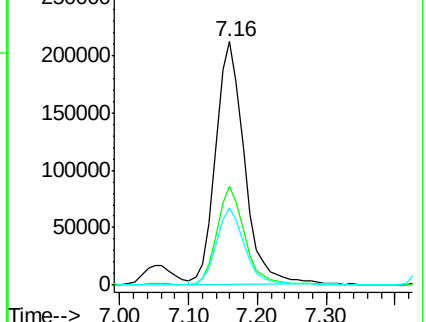
77 31.5 25.0 37.6

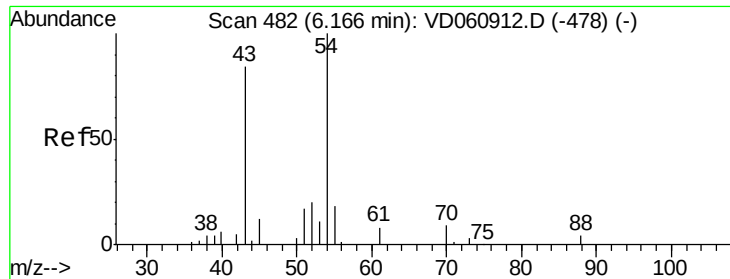


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

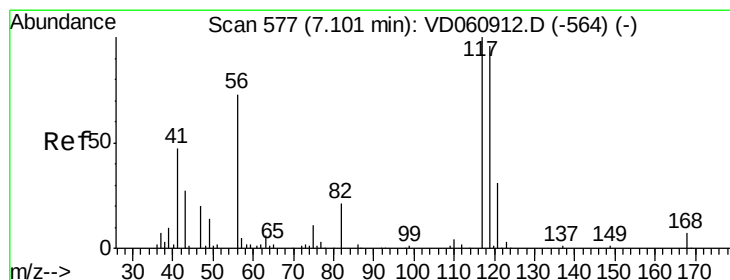
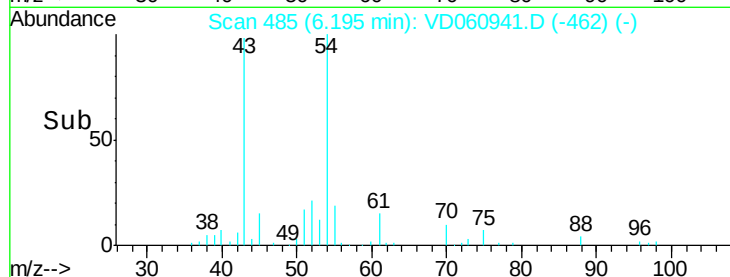
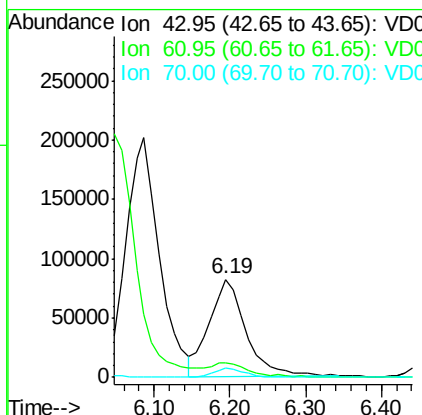
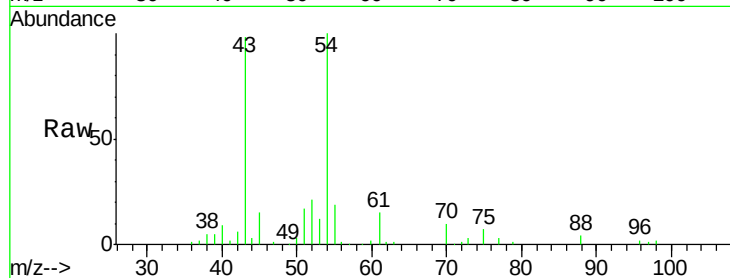




#37
Ethyl Acetate
Concen: 45.237 ug/l
RT: 6.19 min Scan# 485
Delta R.T. 0.03 min
Lab File: VD060941.D
Acq: 5 Mar 2019 11:19

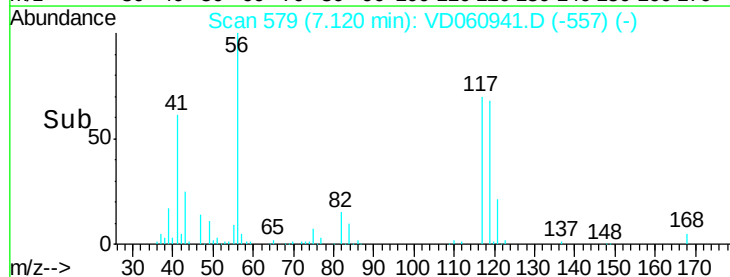
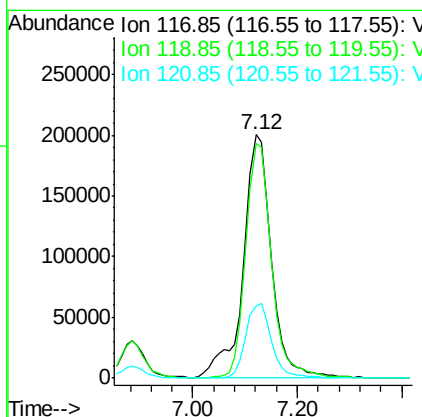
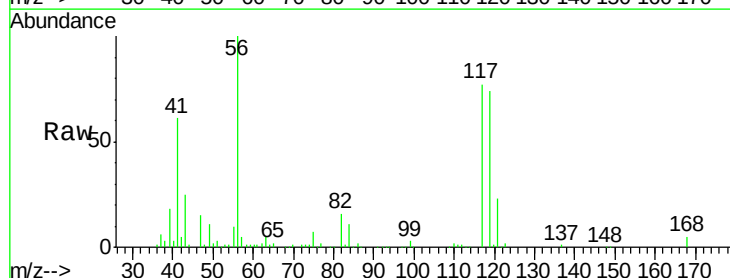
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

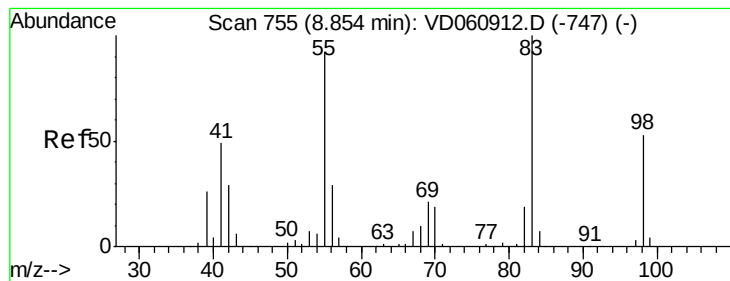
Tot Ion: 43 Resp: 272497
Ion Ratio Lower Upper
43 100
61 15.2 12.1 18.1
70 9.8 7.3 10.9



#38
Carbon Tetrachloride
Concen: 57.192 ug/l
RT: 7.12 min Scan# 579
Delta R.T. 0.02 min
Lab File: VD060941.D
Acq: 5 Mar 2019 11:19

Tgt Ion: 117 Resp: 719997
Ion Ratio Lower Upper
117 100
119 96.6 76.9 115.3
121 29.7 24.5 36.7





#39

Methylvlcyclohexane

Concen: 53.368 ug/l

RT: 8.87 min Scan# 757

Delta R.T. 0.02 min

Lab File: VD060941.D

Acq: 5 Mar 2019 11:19

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

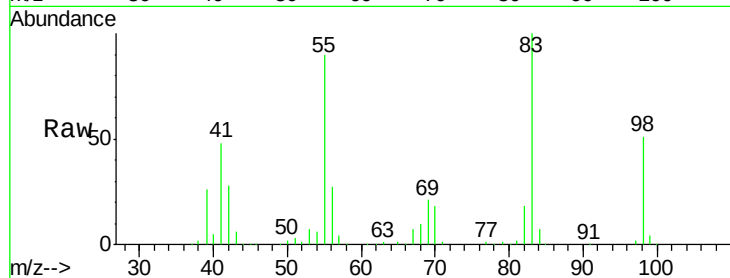
Tot Ion: 83 Resp: 683590

Ion Ratio Lower Upper

83 100

55 90.2 73.8 110.8

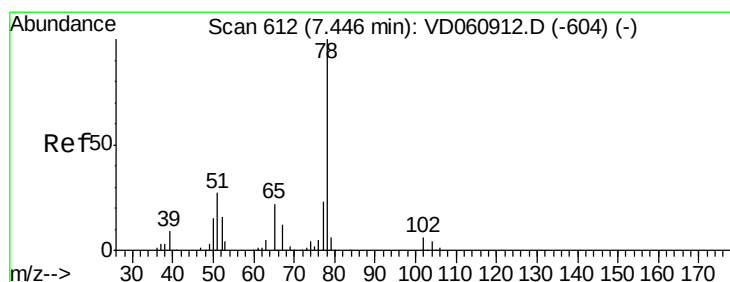
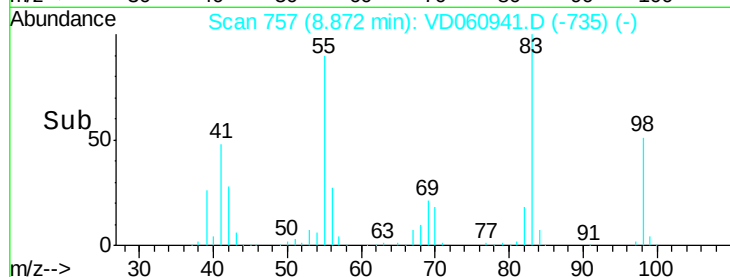
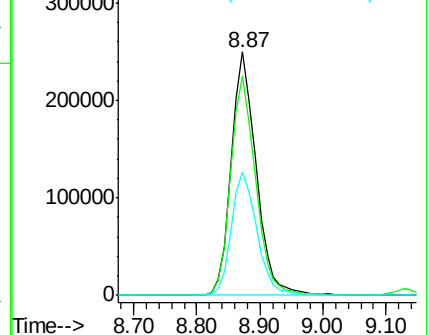
98 50.7 42.4 63.6



Abundance Ion 83.05 (82.75 to 83.75): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC



#40

Benzene

Concen: 50.609 ug/l

RT: 7.46 min Scan# 614

Delta R.T. 0.02 min

Lab File: VD060941.D

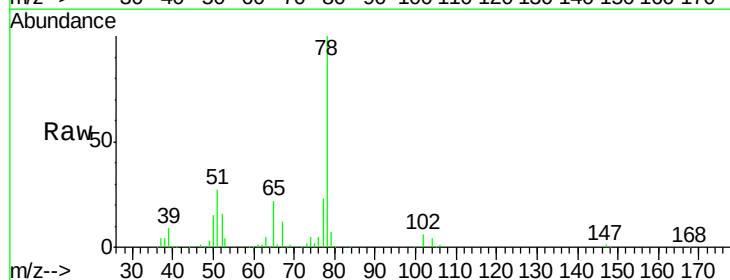
Acq: 5 Mar 2019 11:19

Tgt Ion: 78 Resp: 1510296

Ion Ratio Lower Upper

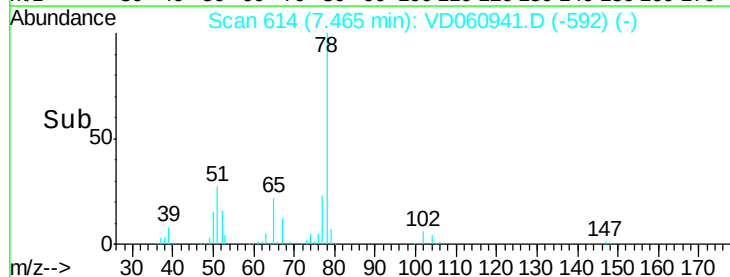
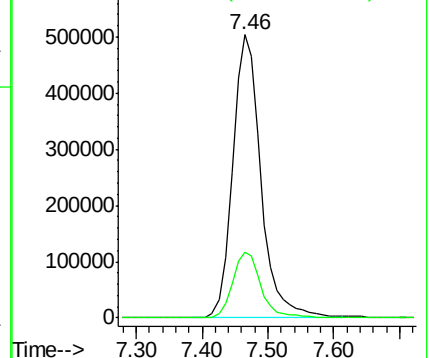
78 100

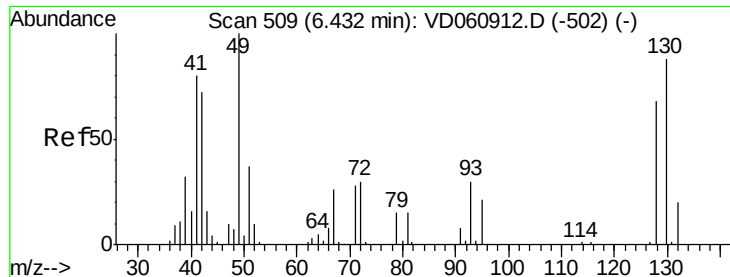
77 23.0 18.4 27.6



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC

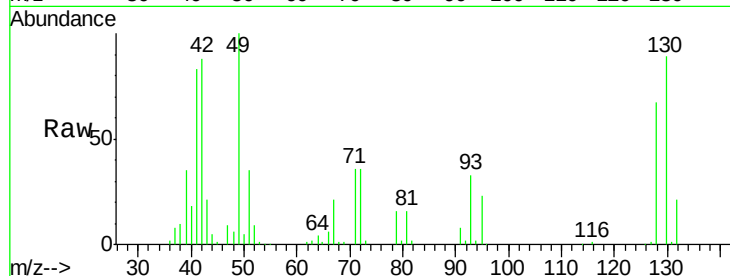




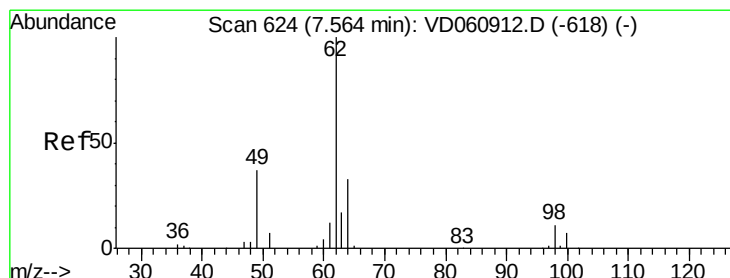
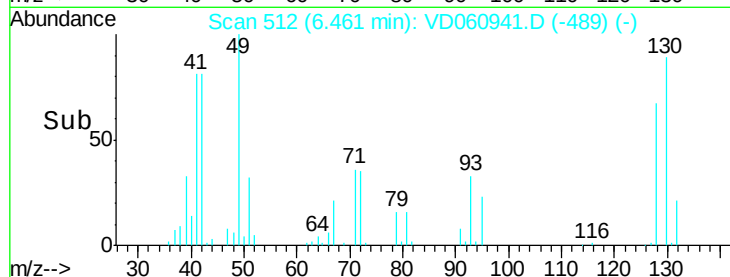
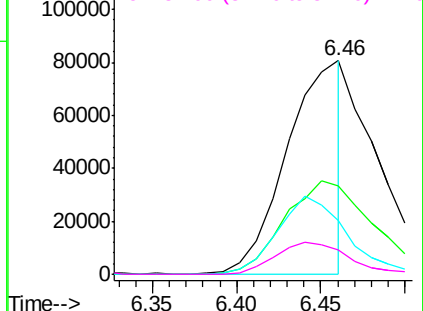
#41
Methacrylonitrile
Concen: 50.610 ug/l m
RT: 6.46 min Scan# 512
Delta R.T. 0.03 min
Lab File: VD060941.D
Acq: 5 Mar 2019 11:19

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 41 Resp: 190458
Ion Ratio Lower Upper
41 100
39 41.7 32.1 48.1
67 25.2 25.6 38.4#
52 11.1 9.7 14.5

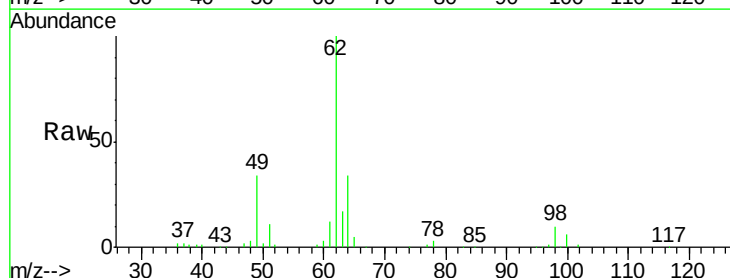


Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 38.95 (38.65 to 39.65): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC

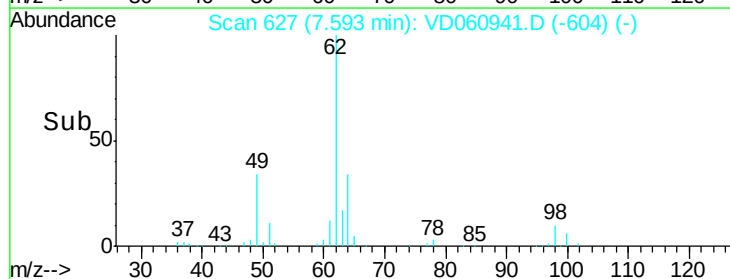
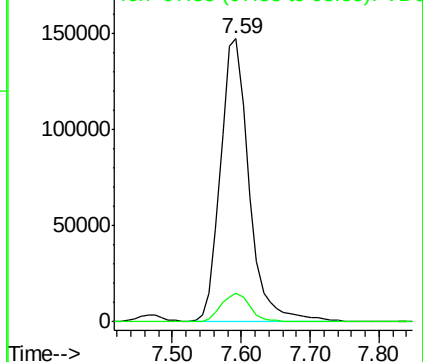


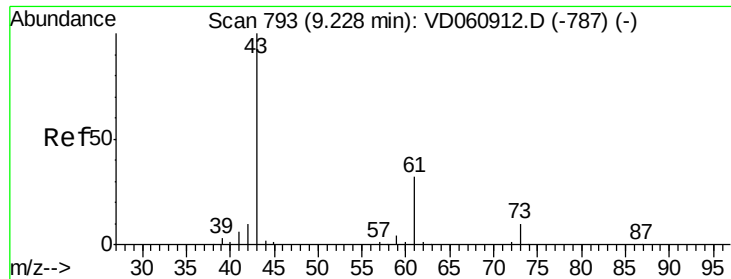
#42
1,2-Dichloroethane
Concen: 50.771 ug/l
RT: 7.59 min Scan# 627
Delta R.T. 0.03 min
Lab File: VD060941.D
Acq: 5 Mar 2019 11:19

Tgt Ion: 62 Resp: 426302
Ion Ratio Lower Upper
62 100
98 10.3 0.0 21.4



Abundance Ion 61.95 (61.65 to 62.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



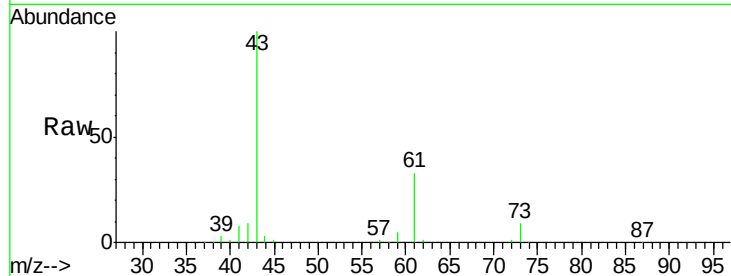


#43

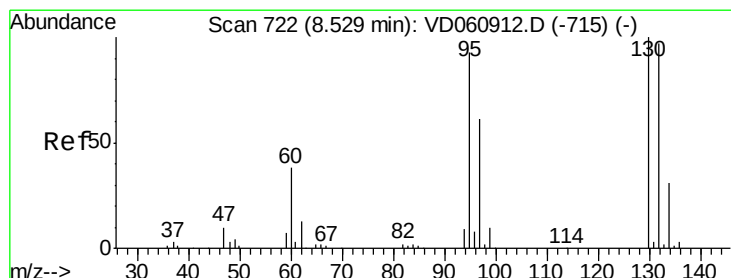
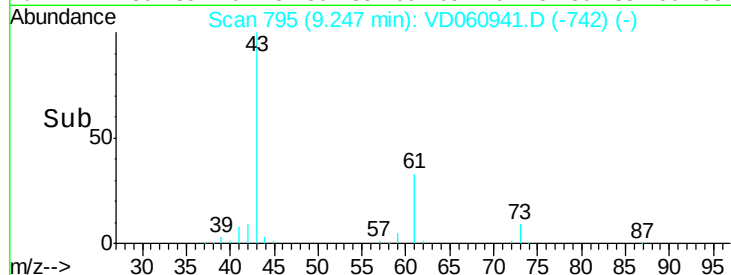
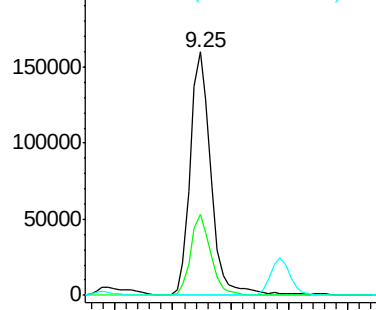
Isopropyl Acetate
 Concen: 47.340 ug/l
 RT: 9.25 min Scan# 795
 Delta R.T. 0.02 min
 Lab File: VD060941.D
 Acq: 5 Mar 2019 11:19

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 43 Resp: 397605
 Ion Ratio Lower Upper
 43 100
 61 33.3 25.6 38.4
 87 0.3 0.2 0.4



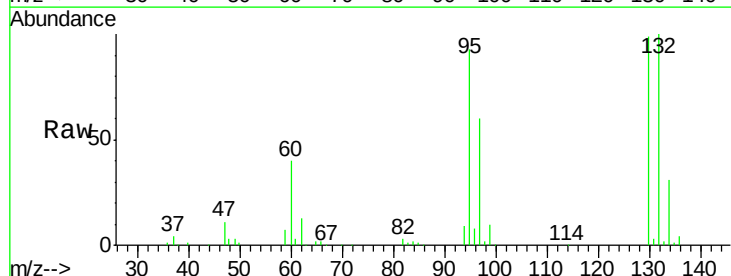
Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 87.00 (86.70 to 87.70): VDC



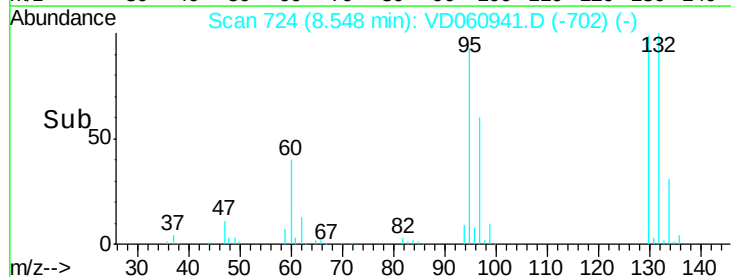
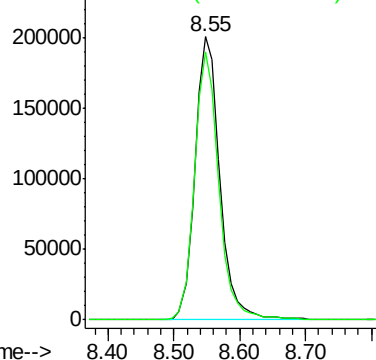
#44

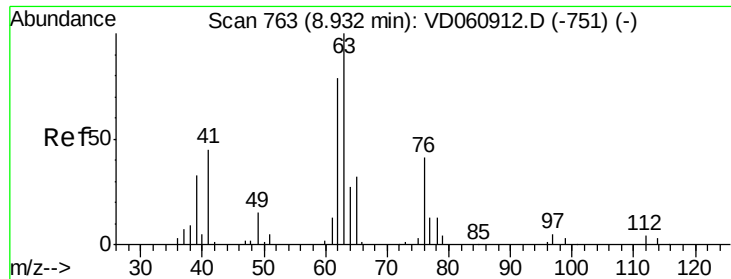
Trichloroethene
 Concen: 51.725 ug/l
 RT: 8.55 min Scan# 724
 Delta R.T. 0.02 min
 Lab File: VD060941.D
 Acq: 5 Mar 2019 11:19

Tgt Ion: 130 Resp: 528630
 Ion Ratio Lower Upper
 130 100
 95 94.5 0.0 185.8



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

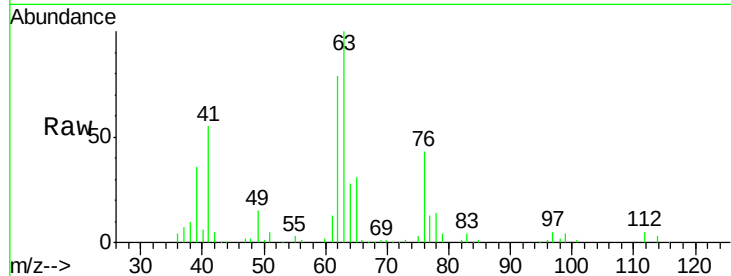




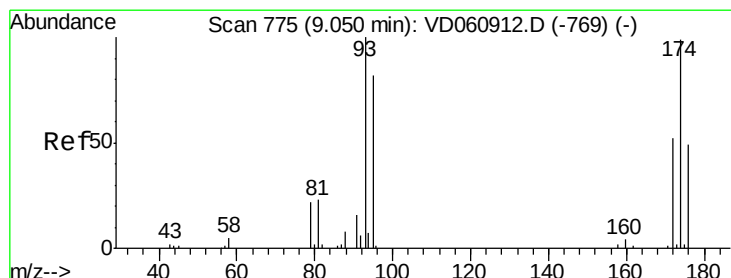
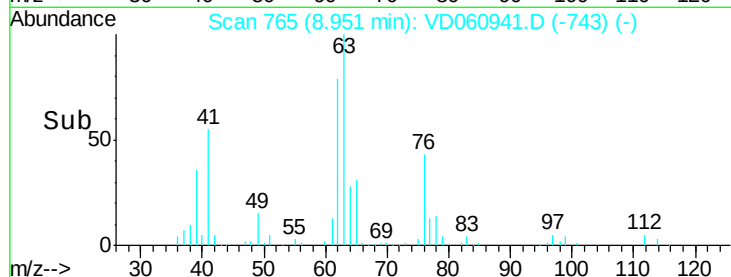
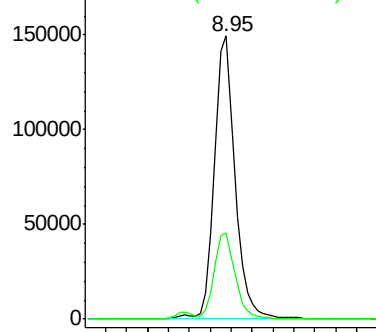
#45
 1,2-Dichloropropane
 Concen: 50.171 ug/l
 RT: 8.95 min Scan# 765
 Delta R.T. 0.02 min
 Lab File: VD060941.D
 Acq: 5 Mar 2019 11:19

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 63 Resp: 396379
 Ion Ratio Lower Upper
 63 100
 65 30.5 25.8 38.6

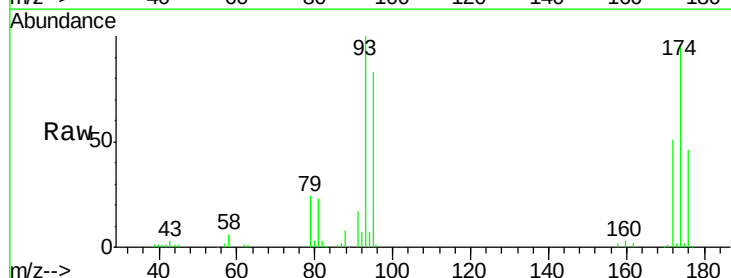


Abundance Ion 62.95 (62.65 to 63.65): VDC
 Ion 64.95 (64.65 to 65.65): VDC

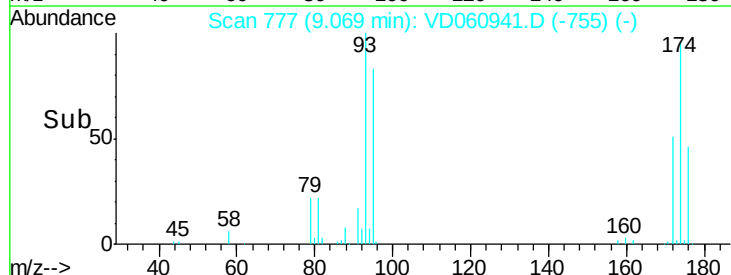
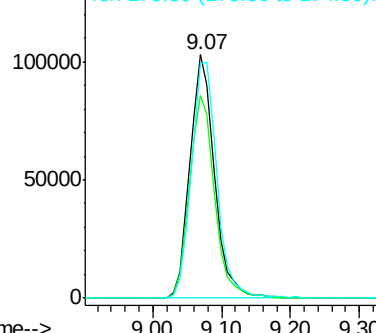


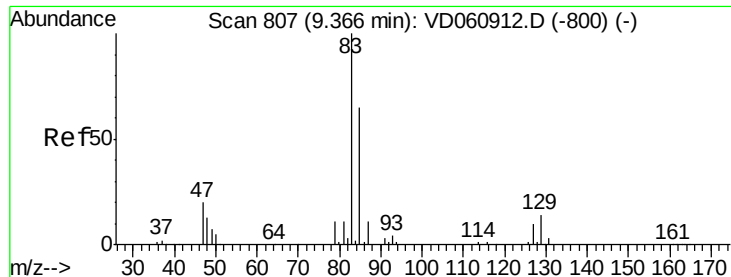
#46
 Dibromomethane
 Concen: 49.924 ug/l
 RT: 9.07 min Scan# 777
 Delta R.T. 0.02 min
 Lab File: VD060941.D
 Acq: 5 Mar 2019 11:19

Tgt Ion: 93 Resp: 254410
 Ion Ratio Lower Upper
 93 100
 95 83.3 65.8 98.6
 174 96.2 79.5 119.3



Abundance Ion 92.90 (92.60 to 93.60): VDC
 Ion 94.90 (94.60 to 95.60): VDC
 Ion 173.80 (173.50 to 174.50): V





#47

Bromodichloromethane

Concen: 49.548 ug/l

RT: 9.38 min Scan# 809

Delta R.T. 0.02 min

Lab File: VD060941.D

Acq: 5 Mar 2019 11:19

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

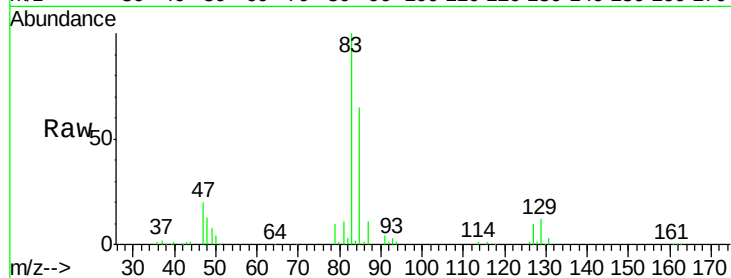
Tot Ion: 83 Resp: 550777

Ion Ratio Lower Upper

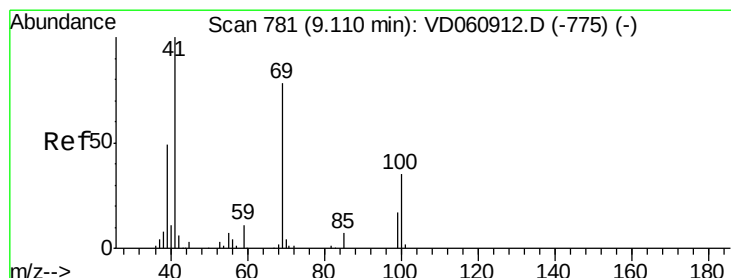
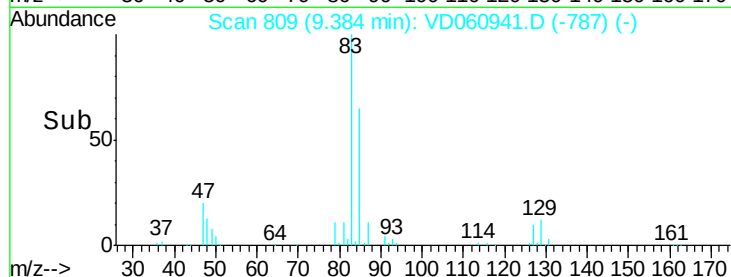
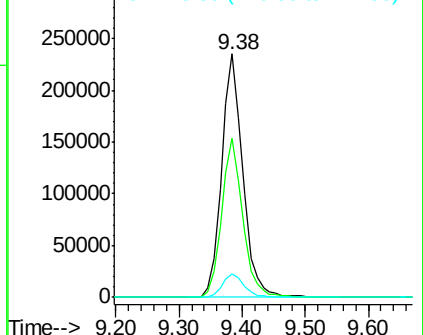
83 100

85 65.2 52.2 78.4

127 9.6 8.2 12.4



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



#48

Methyl methacrylate

Concen: 47.836 ug/l

RT: 9.13 min Scan# 783

Delta R.T. 0.02 min

Lab File: VD060941.D

Acq: 5 Mar 2019 11:19

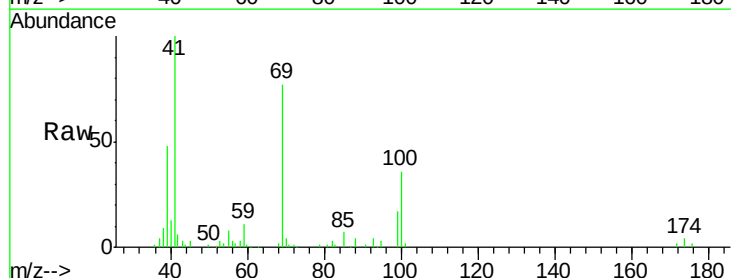
Tgt Ion: 41 Resp: 225723

Ion Ratio Lower Upper

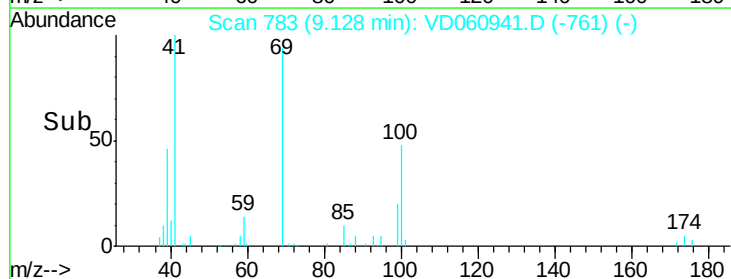
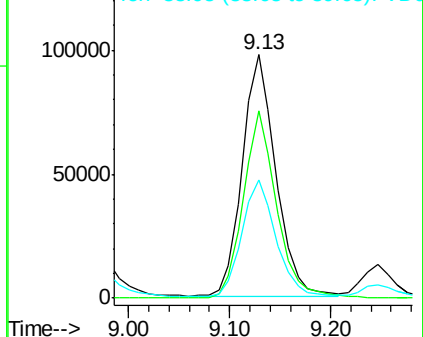
41 100

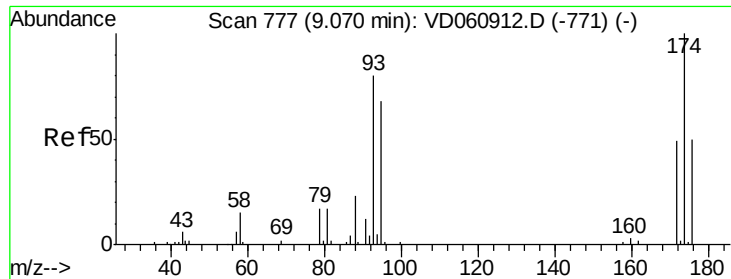
69 77.0 62.1 93.1

39 48.3 39.5 59.3



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

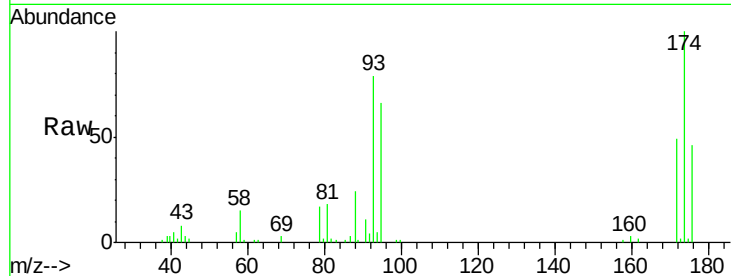




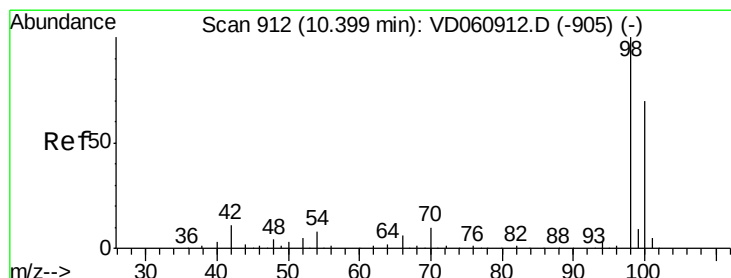
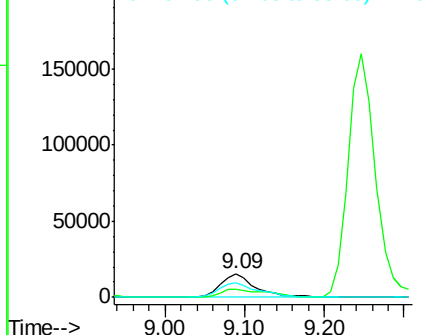
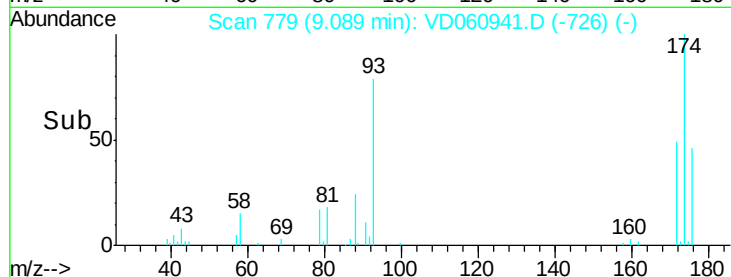
#49
1,4-Dioxane
Concen: 973.335 ug/l
RT: 9.09 min Scan# 779
Delta R.T. 0.02 min
Lab File: VD060941.D
Acq: 5 Mar 2019 11:19

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 88 Resp: 48081
Ion Ratio Lower Upper
88 100
43 31.6 24.2 36.4
58 61.2 51.1 76.7

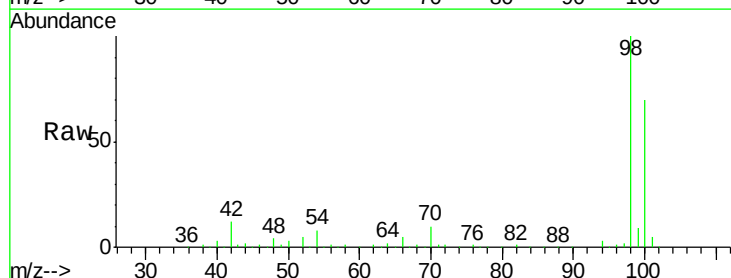


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

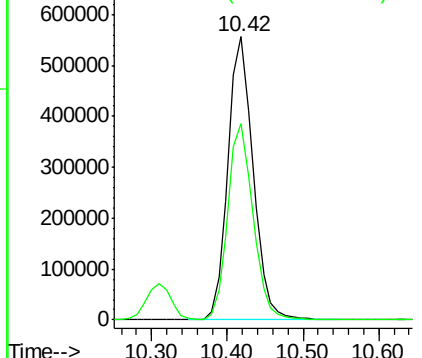
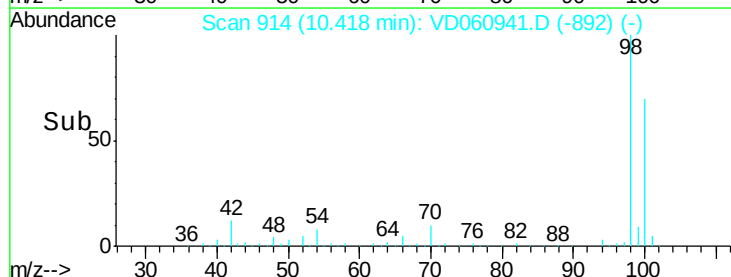


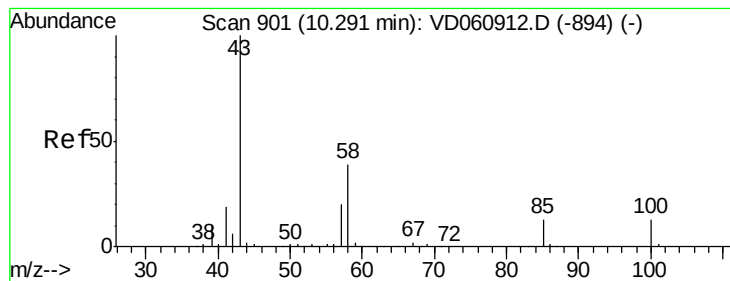
#50
Toluene-d8
Concen: 973.335 ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.02 min
Lab File: VD060941.D
Acq: 5 Mar 2019 11:19

Tgt Ion: 98 Resp: 1282359
Ion Ratio Lower Upper
98 100
100 69.6 57.0 85.4



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: 253.963 ug/l

RT: 10.31 min Scan# 903

Delta R.T. 0.02 min

Lab File: VD060941.D

Acq: 5 Mar 2019 11:19

Instrument :

MSVOA_D

ClientSampleId :

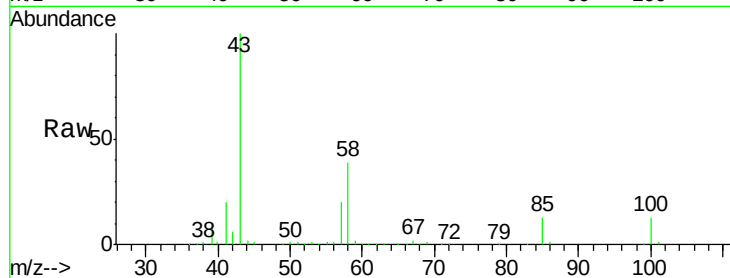
VSTDCCC050

Tot Ion: 43 Resp: 1298633

Ion Ratio Lower Upper

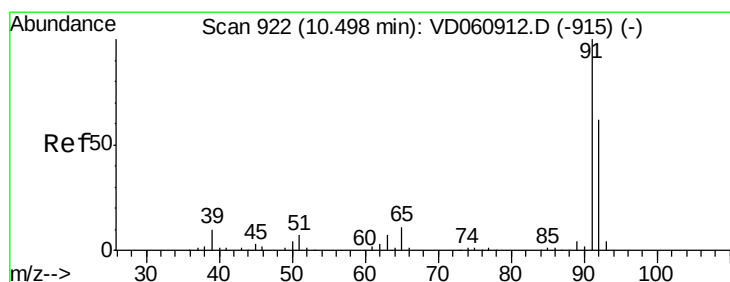
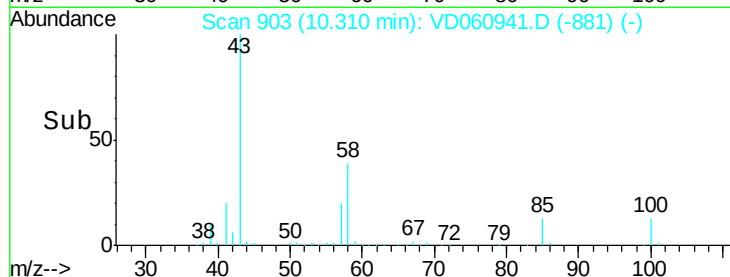
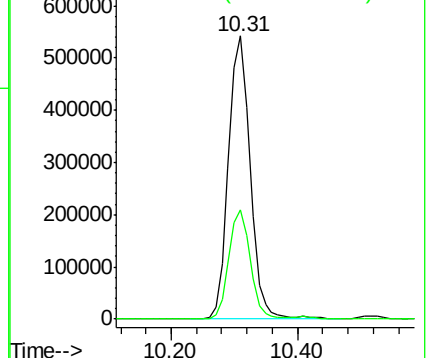
43 100

58 38.6 31.0 46.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 48.053 ug/l

RT: 10.52 min Scan# 924

Delta R.T. 0.02 min

Lab File: VD060941.D

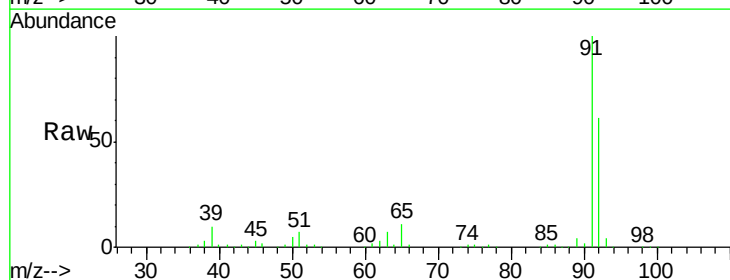
Acq: 5 Mar 2019 11:19

Tgt Ion: 92 Resp: 921305

Ion Ratio Lower Upper

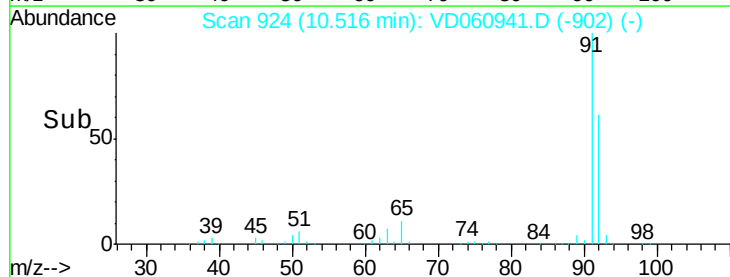
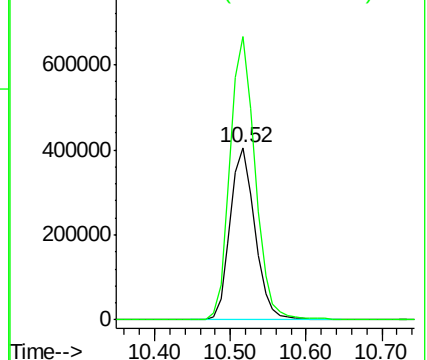
92 100

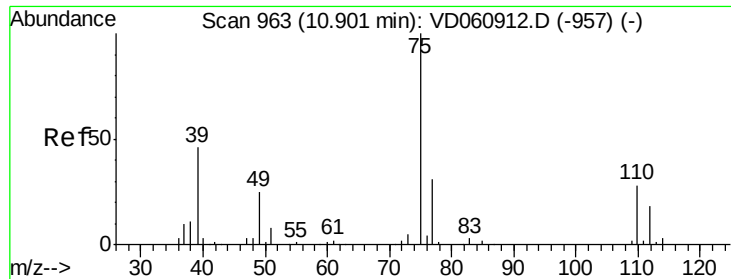
91 164.2 129.9 194.9



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: 51.761 ug/l

RT: 10.92 min Scan# 965

Delta R.T. 0.02 min

Lab File: VD060941.D

Acq: 5 Mar 2019 11:19

Instrument :

MSVOA_D

ClientSampleId :

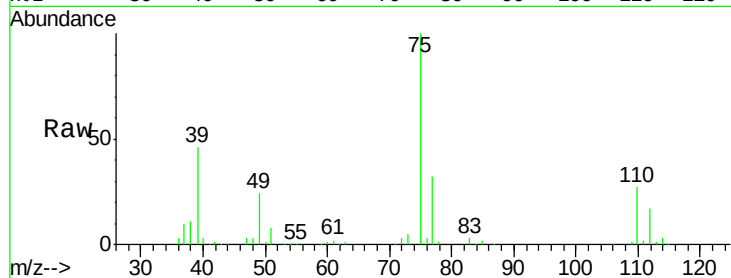
VSTDCCC050

Tot Ion: 75 Resp: 529474

Ion Ratio Lower Upper

75 100

77 31.6 24.9 37.3



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

10.92

250000

200000

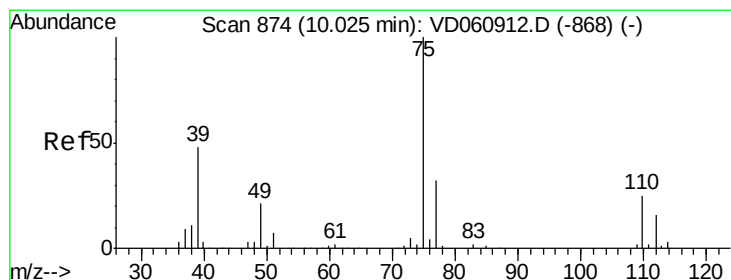
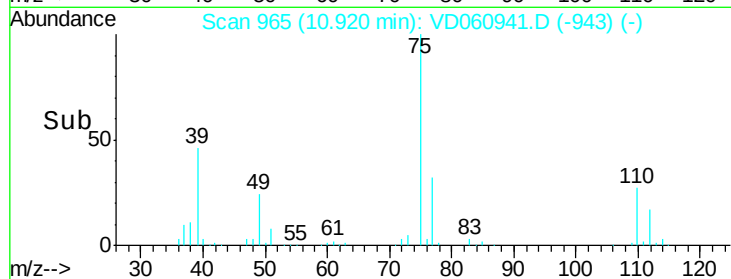
150000

100000

50000

0

Time--> 10.80 10.90 11.00



#54

cis-1,3-Dichloropropene

Concen: 52.074 ug/l

RT: 10.04 min Scan# 876

Delta R.T. 0.02 min

Lab File: VD060941.D

Acq: 5 Mar 2019 11:19

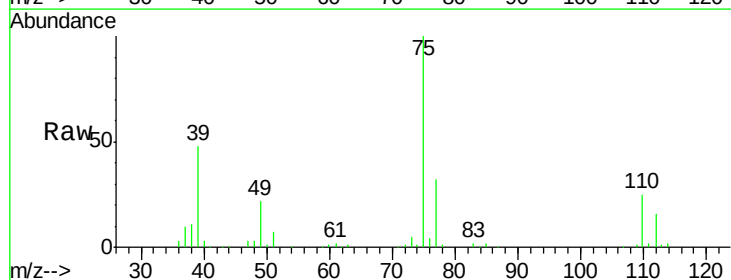
Tgt Ion: 75 Resp: 660521

Ion Ratio Lower Upper

75 100

77 31.6 25.3 37.9

39 48.1 38.2 57.4



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

10.04

400000

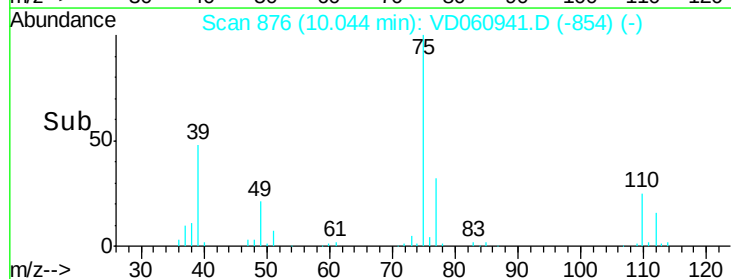
300000

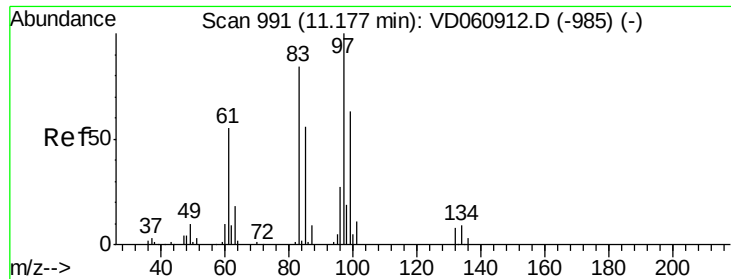
200000

100000

0

Time--> 9.90 10.00 10.10 10.20

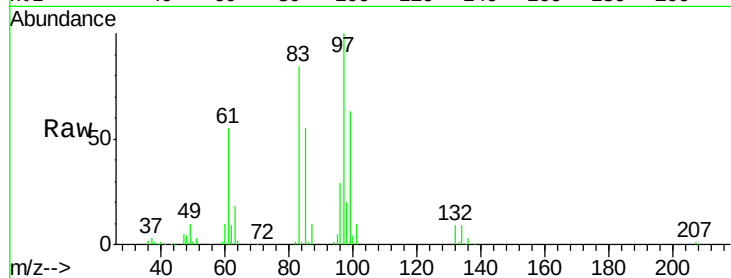




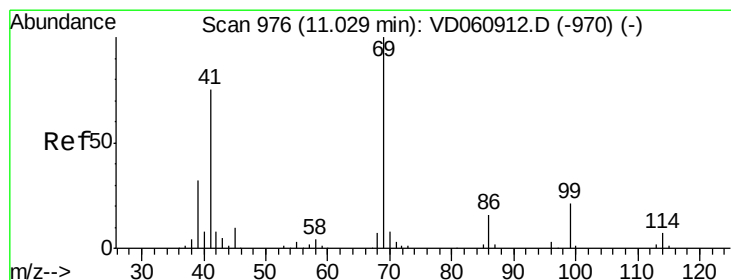
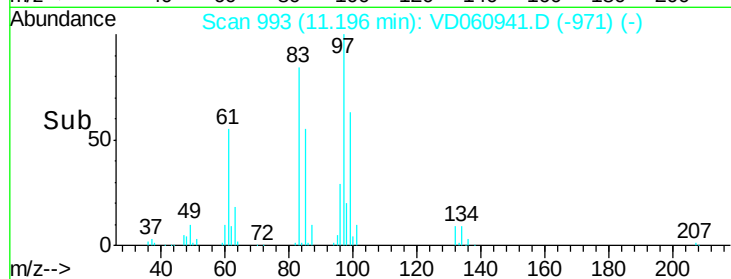
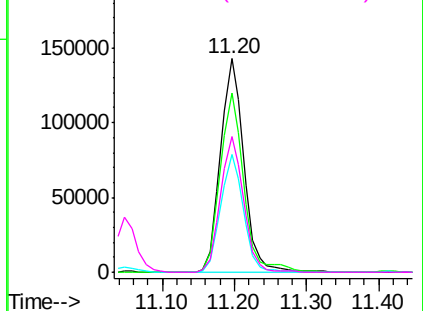
#55
 1,1,2-Trichloroethane
 Concen: 50.491 ug/l
 RT: 11.20 min Scan# 993
 Delta R.T. 0.02 min
 Lab File: VD060941.D
 Acq: 5 Mar 2019 11:19

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion: 97 Resp: 320135
 Ion Ratio Lower Upper
 97 100
 83 84.2 67.5 101.3
 85 55.1 44.9 67.3
 99 63.3 50.6 76.0

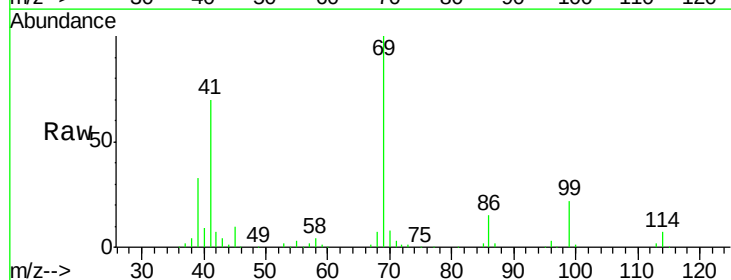


Abundance Ion 96.85 (96.55 to 97.55): VDC
 Ion 82.95 (82.65 to 83.65): VDC
 Ion 84.95 (84.65 to 85.65): VDC
 Ion 98.85 (98.55 to 99.55): VDC

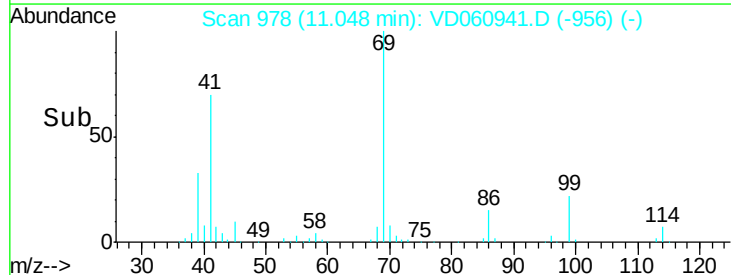
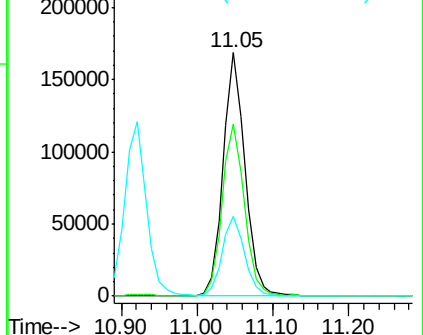


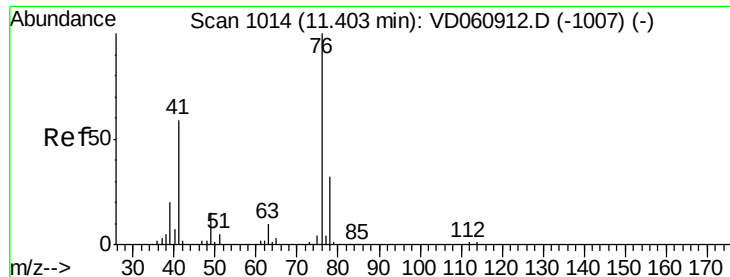
#56
 Ethyl methacrylate
 Concen: 50.279 ug/l
 RT: 11.05 min Scan# 978
 Delta R.T. 0.02 min
 Lab File: VD060941.D
 Acq: 5 Mar 2019 11:19

Tgt Ion: 69 Resp: 337952
 Ion Ratio Lower Upper
 69 100
 41 70.4 59.9 89.9
 39 32.8 25.7 38.5



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: 50.577 ug/l

RT: 11.41 min Scan# 1015

Delta R.T. 0.01 min

Lab File: VD060941.D

Acq: 5 Mar 2019 11:19

Instrument :

MSVOA_D

ClientSampleId :

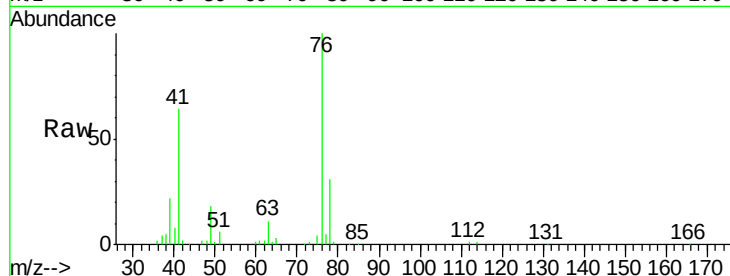
VSTDCCC050

Tot Ion: 76 Resp: 466238

Ion Ratio Lower Upper

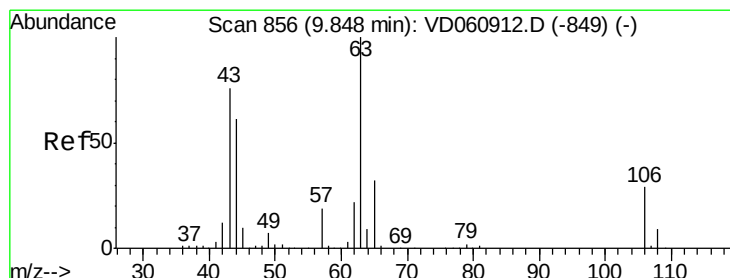
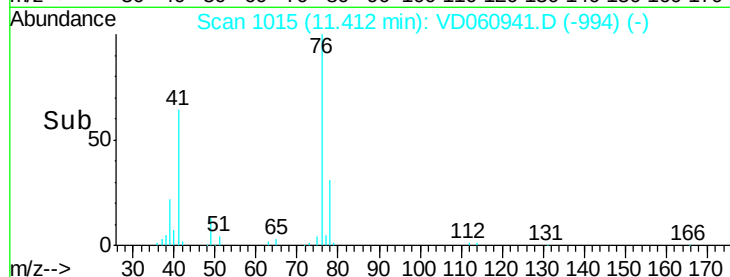
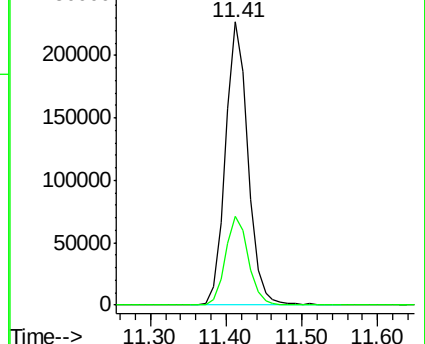
76 100

78 31.2 25.6 38.4



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: 242.953 ug/l

RT: 9.87 min Scan# 858

Delta R.T. 0.02 min

Lab File: VD060941.D

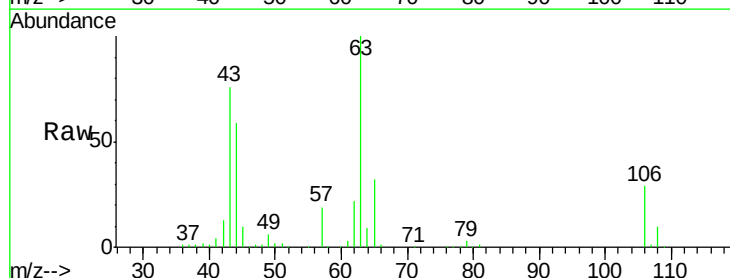
Acq: 5 Mar 2019 11:19

Tgt Ion: 63 Resp: 872150

Ion Ratio Lower Upper

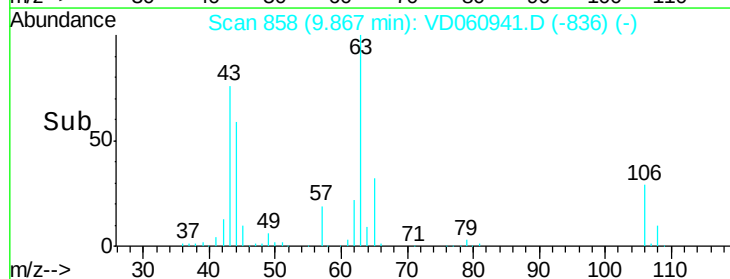
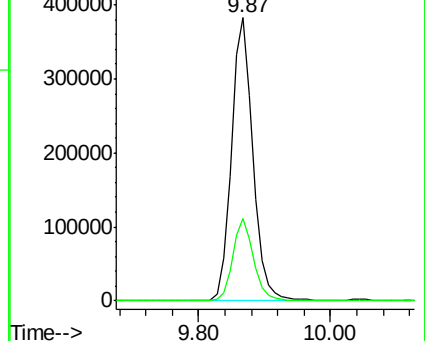
63 100

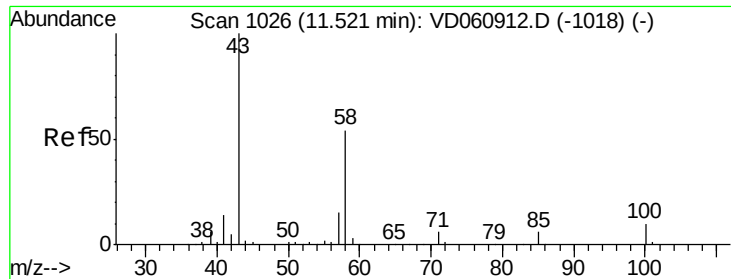
106 29.0 23.0 34.6



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

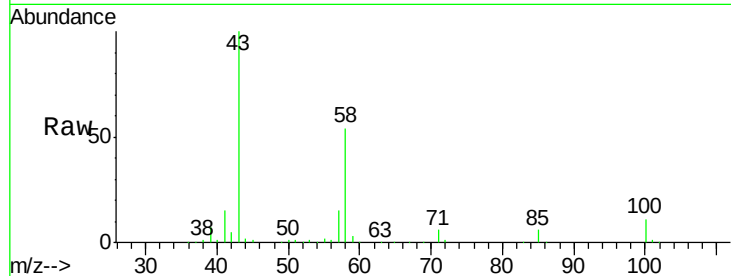




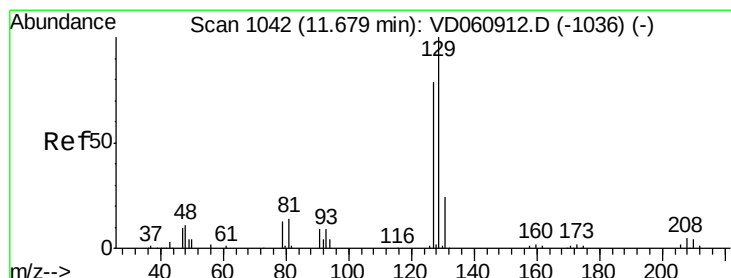
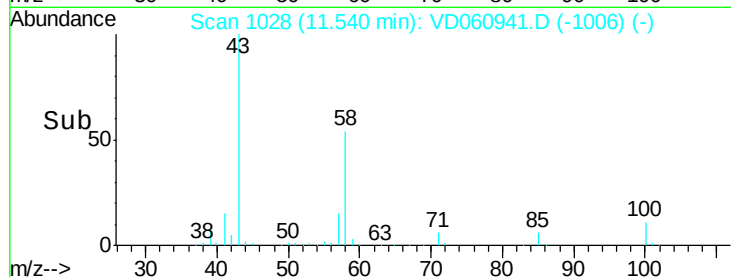
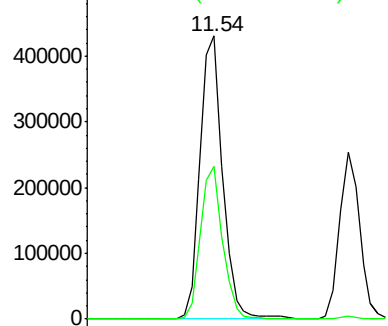
#59
2-Hexanone
Concen: 247.002 ug/l
RT: 11.54 min Scan# 1028
Delta R.T. 0.02 min
Lab File: VD060941.D
Acq: 5 Mar 2019 11:19

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 885384
Ion Ratio Lower Upper
43 100
58 53.9 27.2 81.5

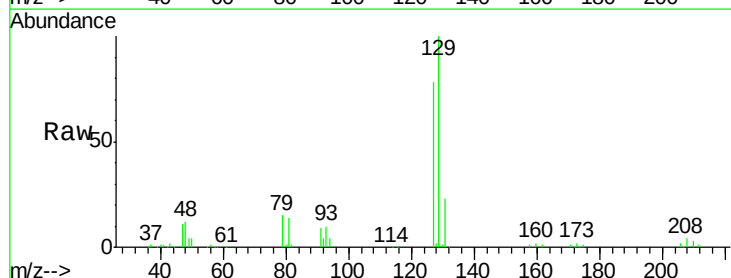


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

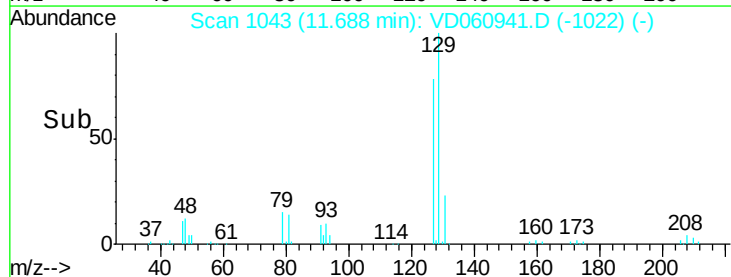
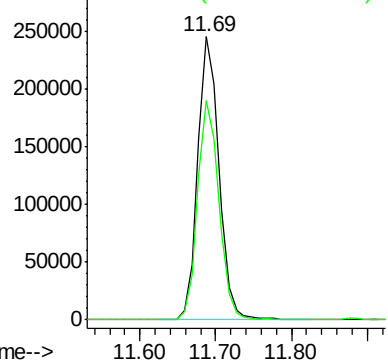


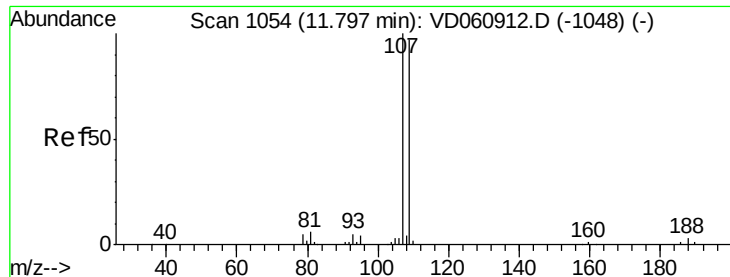
#60
Dibromochloromethane
Concen: 52.080 ug/l
RT: 11.69 min Scan# 1043
Delta R.T. 0.01 min
Lab File: VD060941.D
Acq: 5 Mar 2019 11:19

Tgt Ion: 129 Resp: 476241
Ion Ratio Lower Upper
129 100
127 77.5 39.4 118.1



Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V

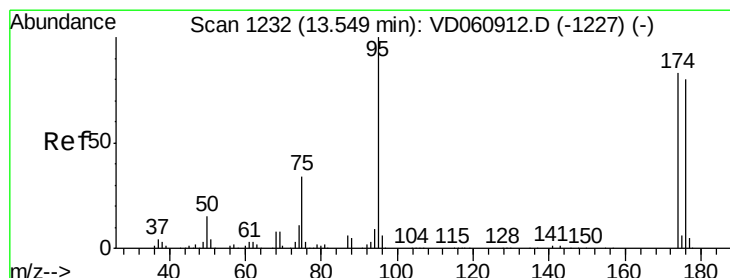
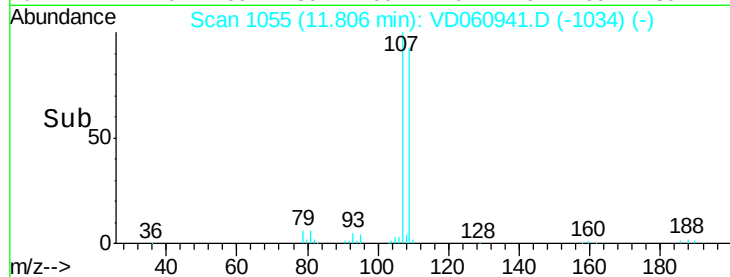
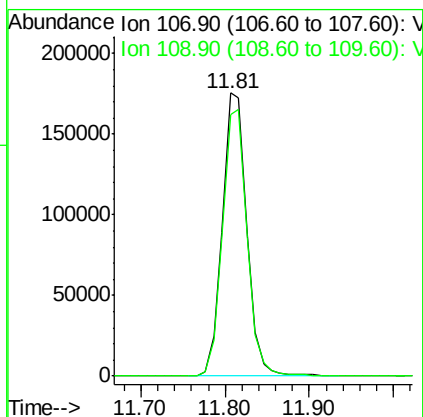
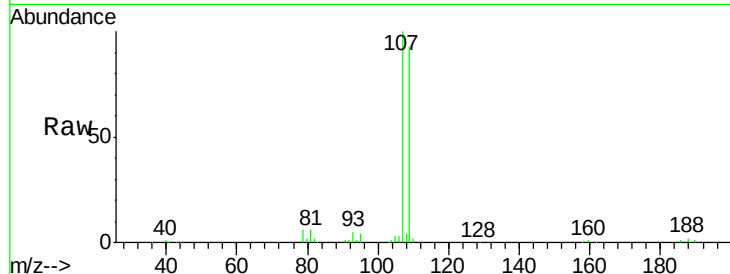




#61
1,2-Dibromoethane
Concen: 47.412 ug/l
RT: 11.81 min Scan# 1055
Delta R.T. 0.01 min
Lab File: VD060941.D
Acq: 5 Mar 2019 11:19

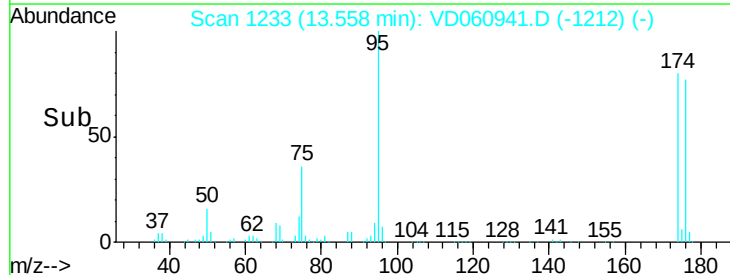
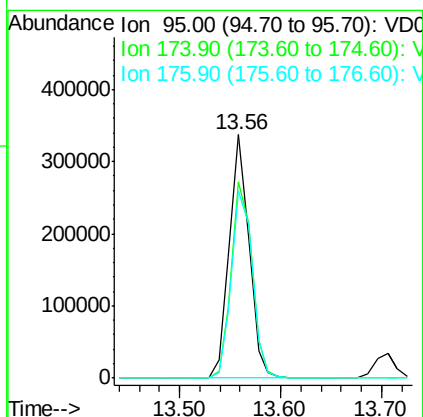
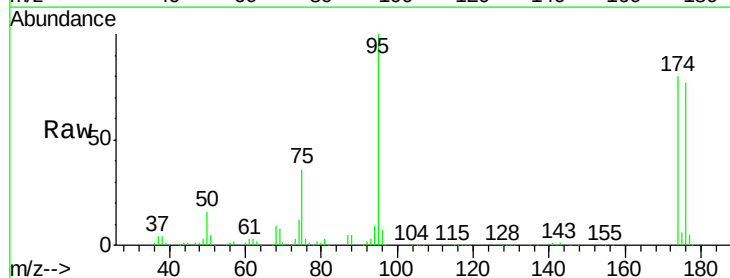
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

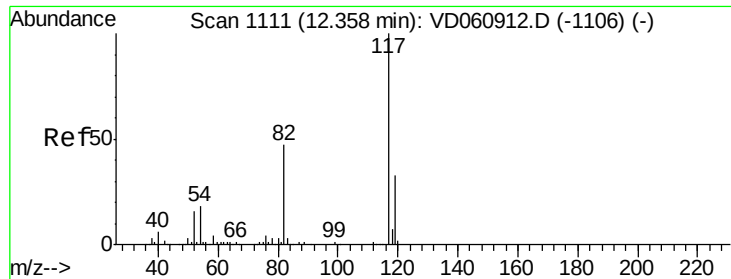
Tot Ion:107 Resp: 353153
Ion Ratio Lower Upper
107 100
109 92.5 78.0 117.0



#62
4-Bromofluorobenzene
Concen: 47.412 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.01 min
Lab File: VD060941.D
Acq: 5 Mar 2019 11:19

Tgt Ion: 95 Resp: 459220
Ion Ratio Lower Upper
95 100
174 80.4 0.0 165.6
176 76.8 0.0 160.6

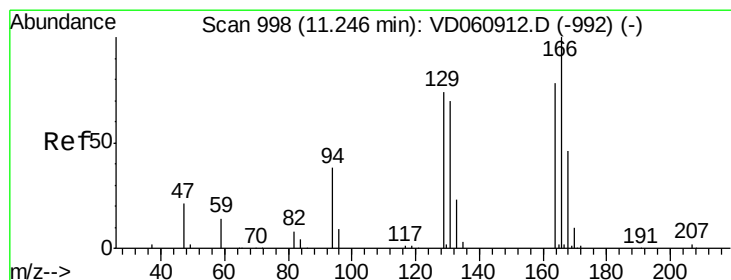
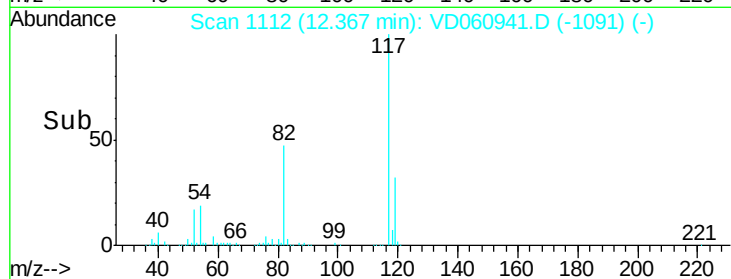
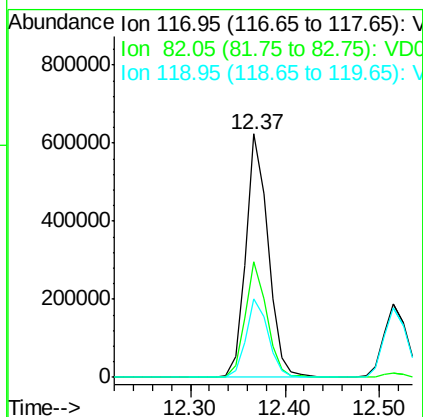
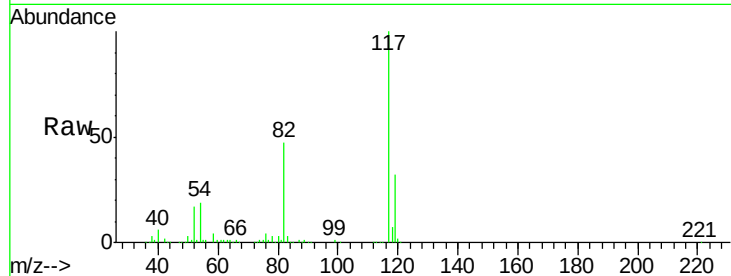




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD060941.D
Acq: 5 Mar 2019 11:19

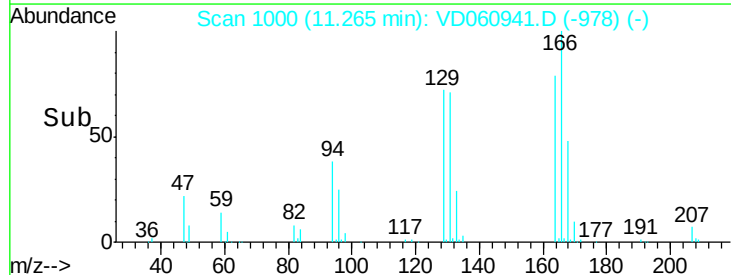
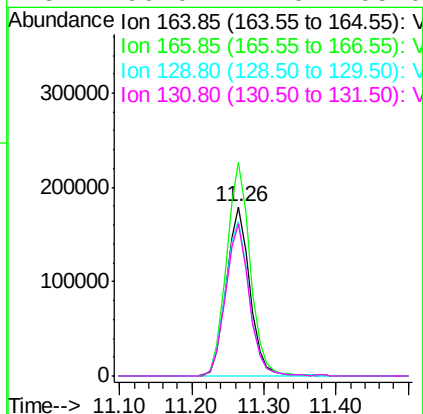
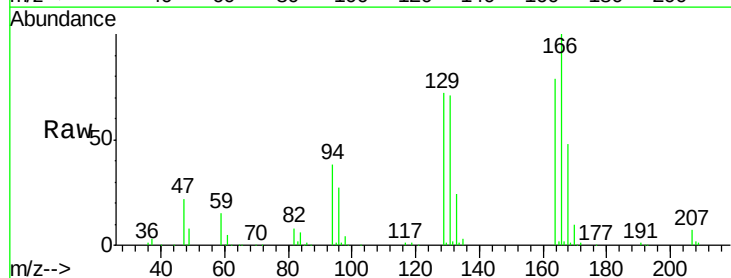
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

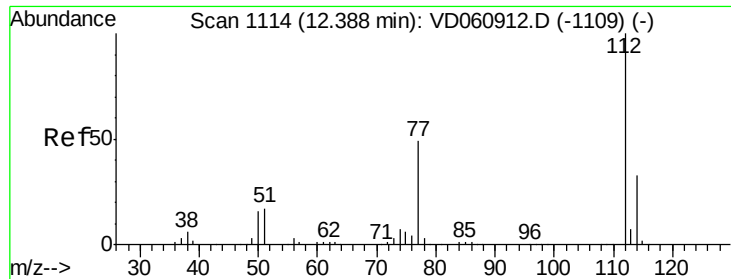
Tot Ion:117 Resp: 1018414
Ion Ratio Lower Upper
117 100
82 47.5 37.5 56.3
119 32.4 26.2 39.2



#64
Tetrachloroethene
Concen: 52.129 ug/l
RT: 11.26 min Scan# 1000
Delta R.T. 0.02 min
Lab File: VD060941.D
Acq: 5 Mar 2019 11:19

Tgt Ion:164 Resp: 406395
Ion Ratio Lower Upper
164 100
166 126.2 102.3 153.5
129 91.4 75.6 113.4
131 90.0 72.0 108.0

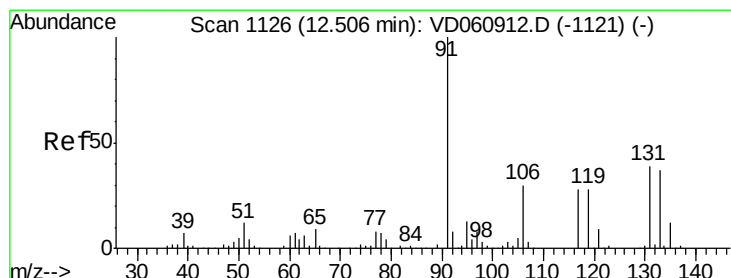
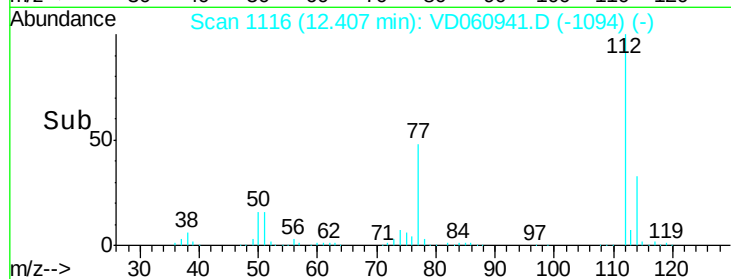
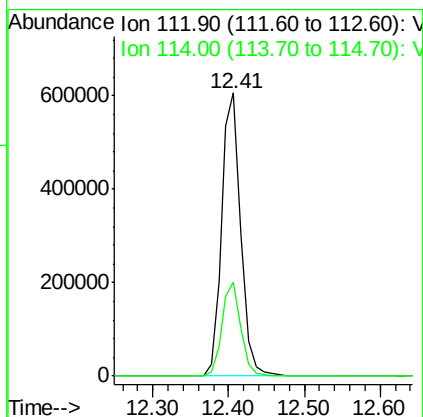
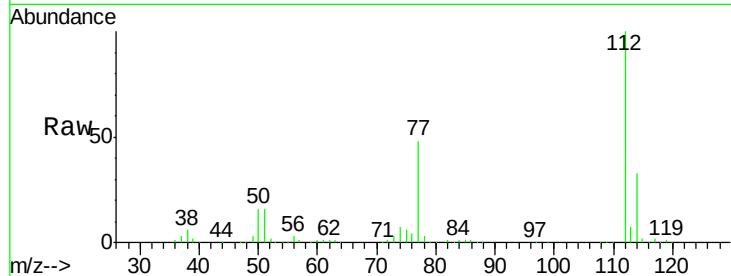




#65
Chlorobenzene
Concen: 46.810 ug/l
RT: 12.41 min Scan# 1116
Delta R.T. 0.02 min
Lab File: VD060941.D
Acq: 5 Mar 2019 11:19

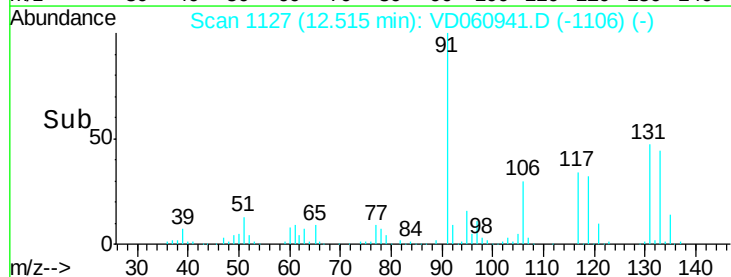
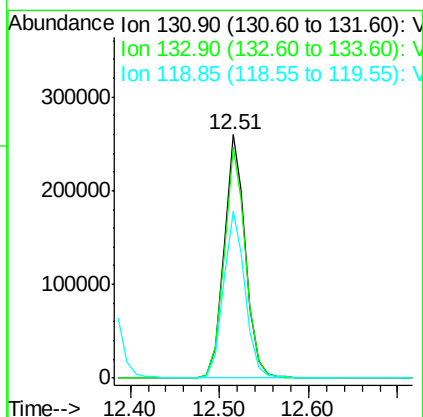
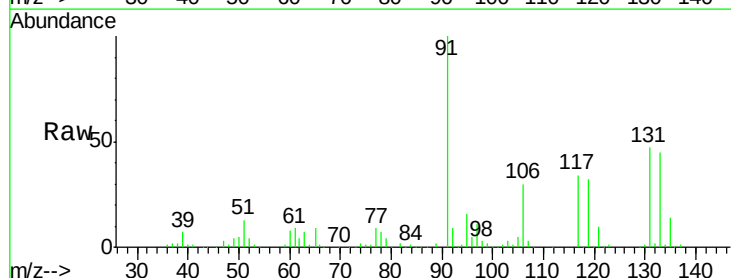
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

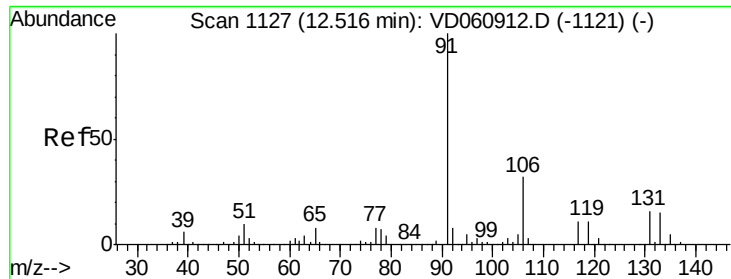
Tot Ion:112 Resp: 1061364
Ion Ratio Lower Upper
112 100
114 33.3 26.0 39.0



#66
1,1,1,2-Tetrachloroethane
Concen: 53.733 ug/l
RT: 12.51 min Scan# 1127
Delta R.T. 0.01 min
Lab File: VD060941.D
Acq: 5 Mar 2019 11:19

Tgt Ion:131 Resp: 437200
Ion Ratio Lower Upper
131 100
133 94.8 47.4 142.3
119 68.5 36.0 108.1

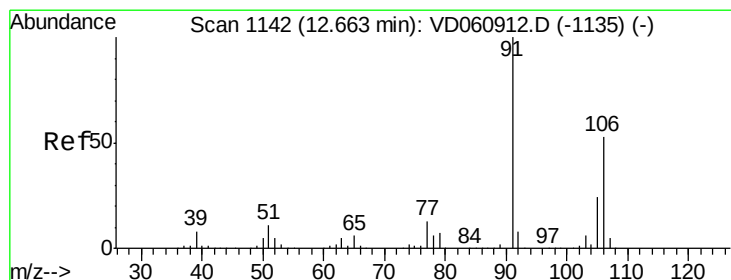
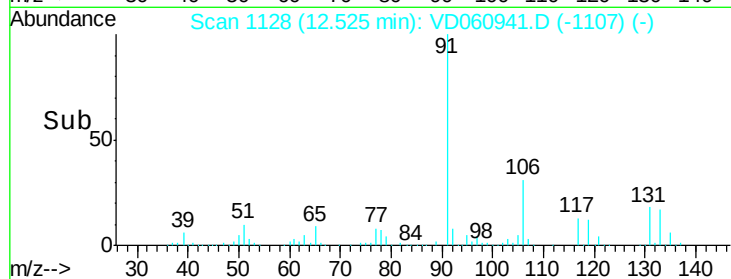
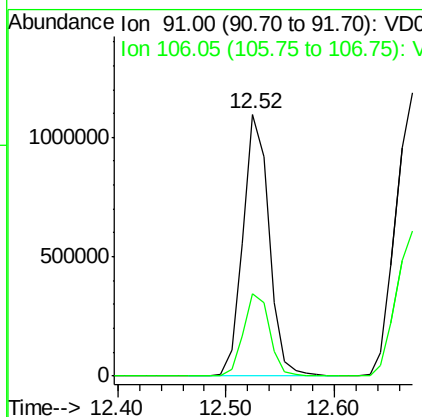
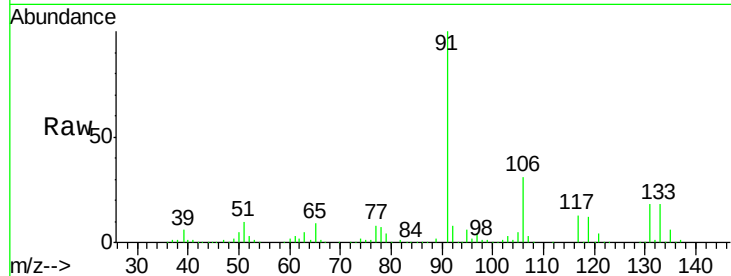




#67
Ethyl Benzene
Concen: 55.414 ug/l
RT: 12.52 min Scan# 1128
Delta R.T. 0.01 min
Lab File: VD060941.D
Acq: 5 Mar 2019 11:19

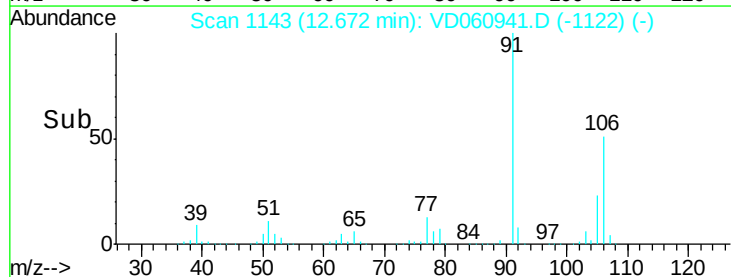
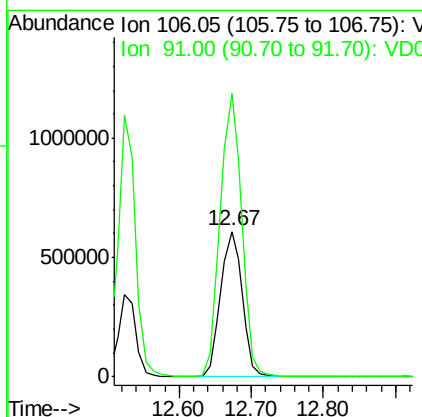
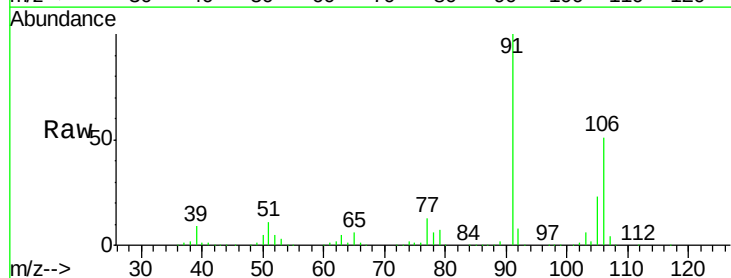
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

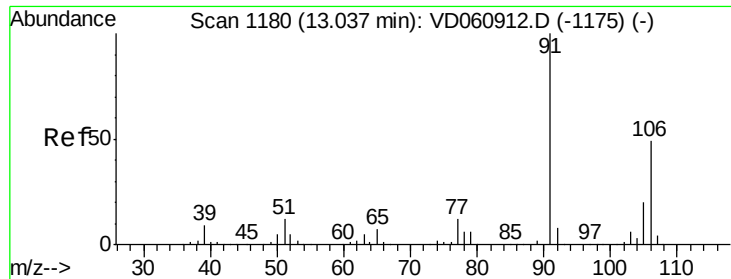
Tot Ion: 91 Resp: 1829454
Ion Ratio Lower Upper
91 100
106 31.4 25.8 38.6



#68
m/p-Xylenes
Concen: 95.367 ug/l
RT: 12.67 min Scan# 1143
Delta R.T. 0.01 min
Lab File: VD060941.D
Acq: 5 Mar 2019 11:19

Tgt Ion: 106 Resp: 1257920
Ion Ratio Lower Upper
106 100
91 194.6 150.2 225.4

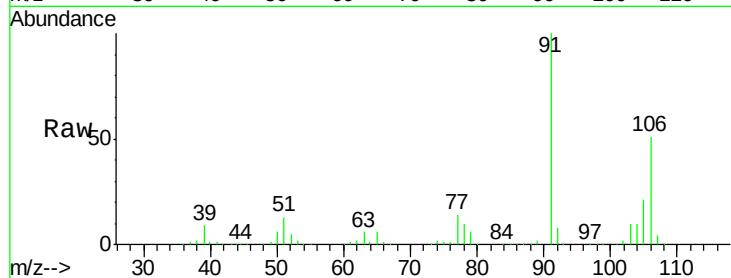




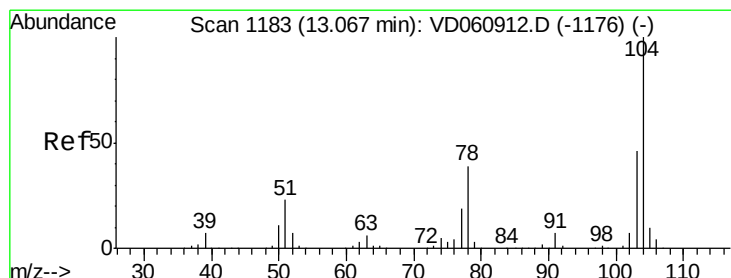
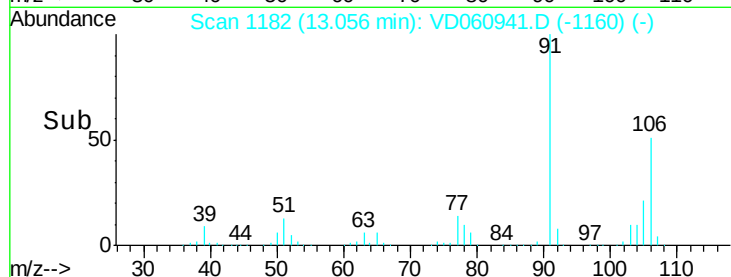
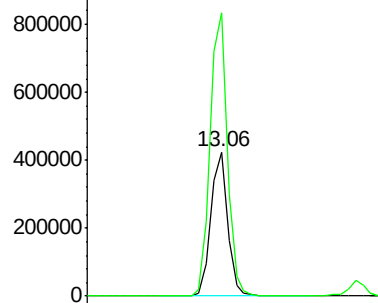
#69
o-Xylene
Concen: 51.740 ug/l
RT: 13.06 min Scan# 1182
Delta R.T. 0.02 min
Lab File: VD060941.D
Acq: 5 Mar 2019 11:19

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:106 Resp: 641080
Ion Ratio Lower Upper
106 100
91 196.8 102.9 308.7

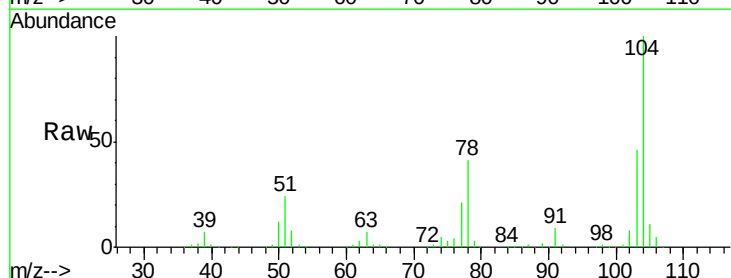


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

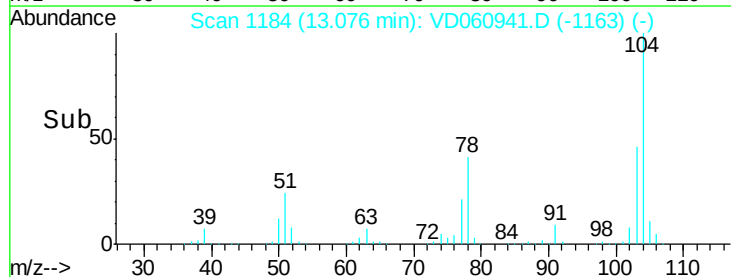
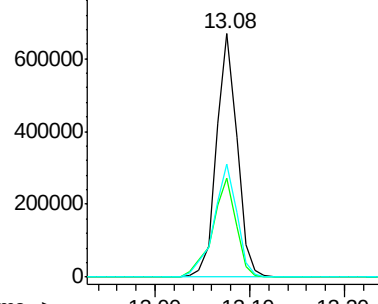


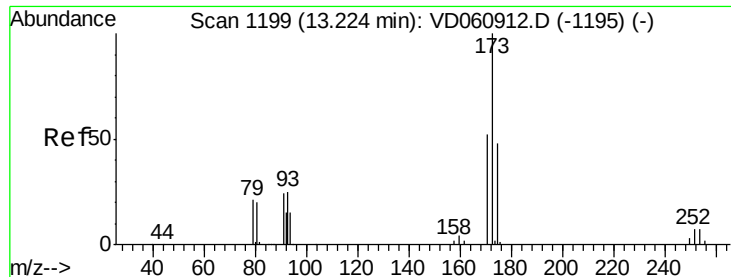
#70
Styrene
Concen: 48.665 ug/l
RT: 13.08 min Scan# 1184
Delta R.T. 0.01 min
Lab File: VD060941.D
Acq: 5 Mar 2019 11:19

Tgt Ion:104 Resp: 1006021
Ion Ratio Lower Upper
104 100
78 40.6 31.0 46.4
103 46.2 36.5 54.7



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





#71

Bromoform

Concen: 50.836 ug/l

RT: 13.23 min Scan# 1200

Delta R.T. 0.01 min

Lab File: VD060941.D

Acq: 5 Mar 2019 11:19

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

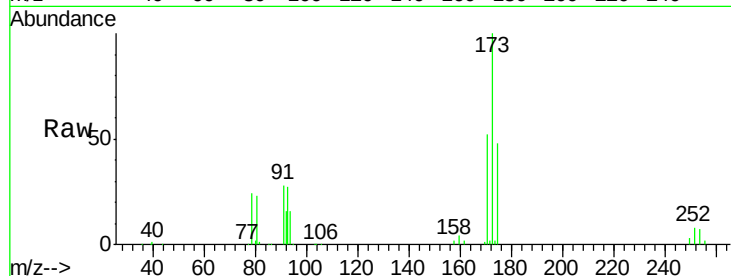
Tot Ion:173 Resp: 261800

Ion Ratio Lower Upper

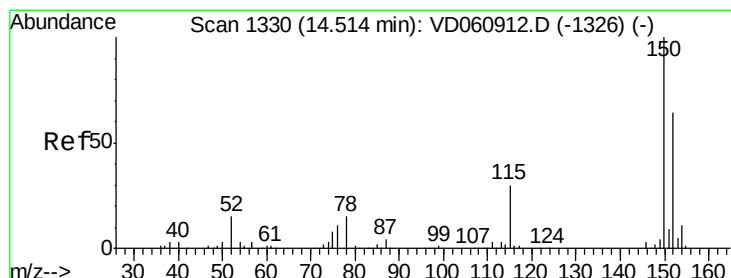
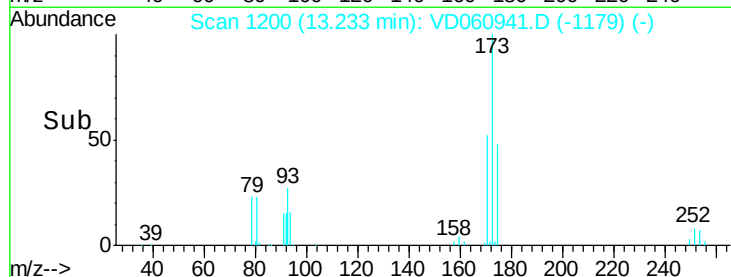
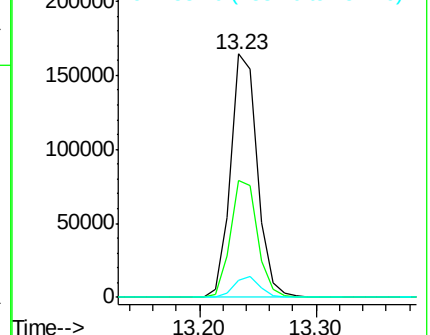
173 100

175 47.8 24.1 72.3

254 6.8 5.6 8.4



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VD060941.D

Acq: 5 Mar 2019 11:19

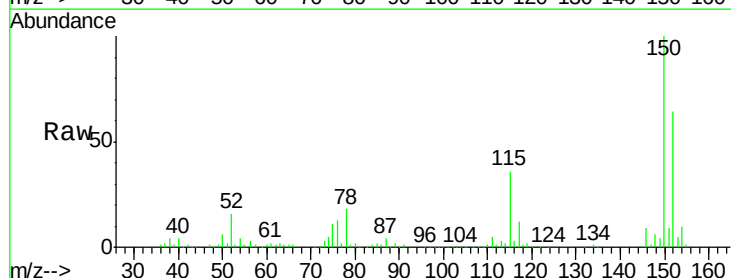
Tgt Ion:152 Resp: 446402

Ion Ratio Lower Upper

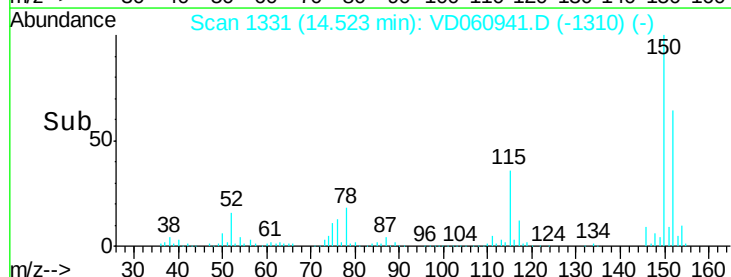
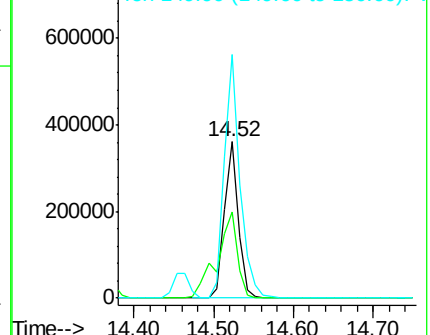
152 100

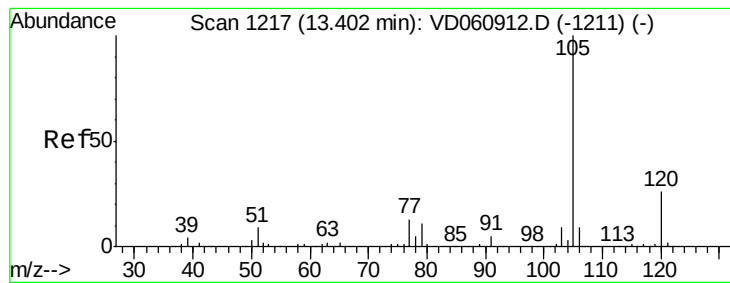
115 55.4 27.6 82.8

150 155.8 0.0 312.8



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





#73

Isopropylbenzene

Concen: 46.825 ug/l

RT: 13.41 min Scan# 1218

Delta R.T. 0.01 min

Lab File: VD060941.D

Acq: 5 Mar 2019 11:19

Instrument :

MSVOA_D

ClientSampleId :

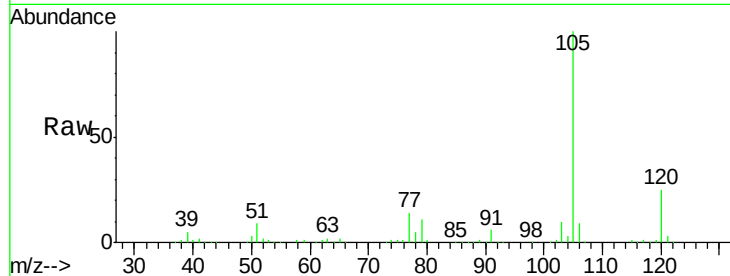
VSTDCCC050

Tot Ion:105 Resp: 1615005

Ion Ratio Lower Upper

105 100

120 25.2 12.9 38.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

1000000

800000

600000

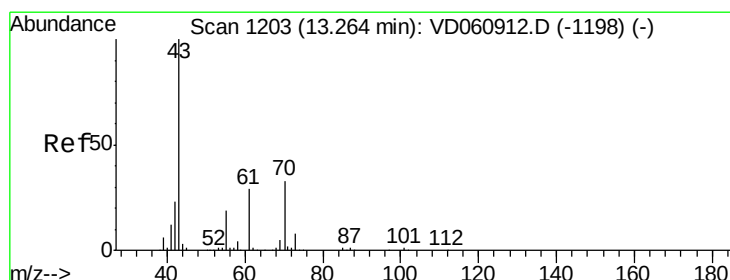
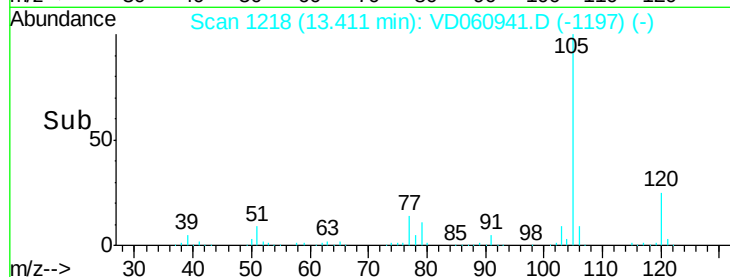
400000

200000

0

13.30 13.40 13.50

Time-->



#74

N-ethyl acetate

Concen: 48.842 ug/l

RT: 13.27 min Scan# 1204

Delta R.T. 0.01 min

Lab File: VD060941.D

Acq: 5 Mar 2019 11:19

Tgt Ion: 43 Resp: 503206

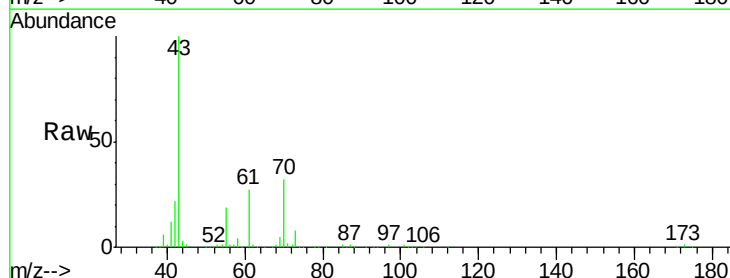
Ion Ratio Lower Upper

43 100

70 32.2 26.3 39.5

55 19.5 15.4 23.2

61 27.3 23.4 35.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC

500000

400000

300000

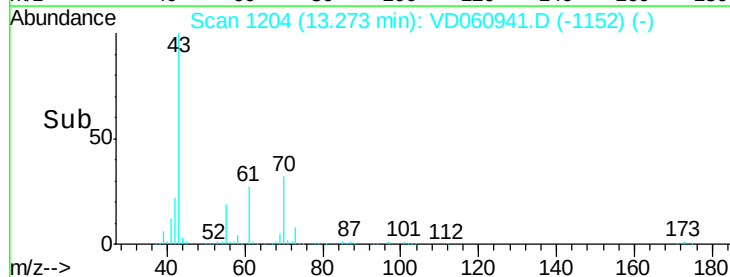
200000

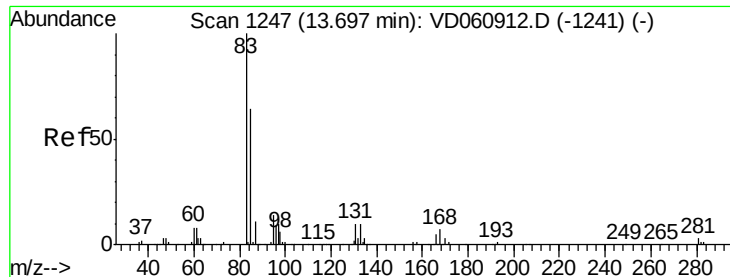
100000

0

13.20 13.30 13.40

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 50.747 ug/l

RT: 13.71 min Scan# 1248

Delta R.T. 0.01 min

Lab File: VD060941.D

Acq: 5 Mar 2019 11:19

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

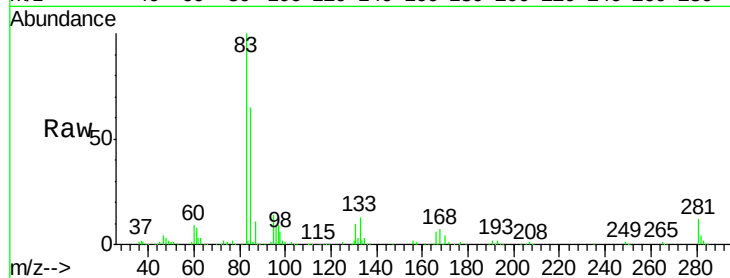
Tot Ion: 83 Resp: 362999

Ion	Ratio	Lower	Upper
83	100		
131	10.4	5.1	15.2
85	65.1	32.3	96.8

83 100

131 10.4 5.1 15.2

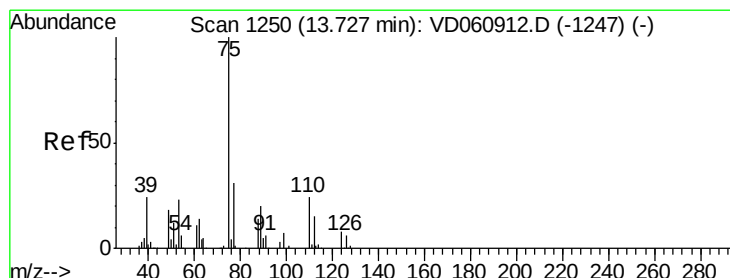
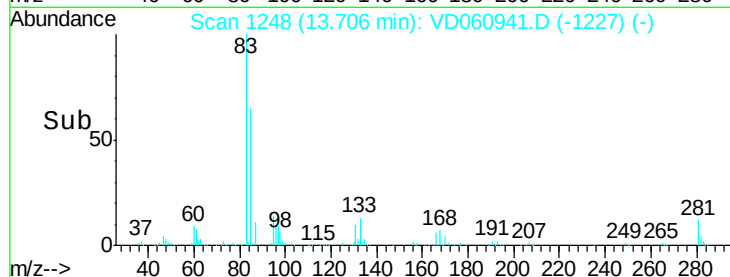
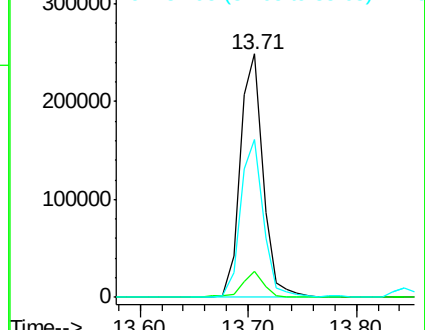
85 65.1 32.3 96.8



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 52.845 ug/l

RT: 13.74 min Scan# 1251

Delta R.T. 0.01 min

Lab File: VD060941.D

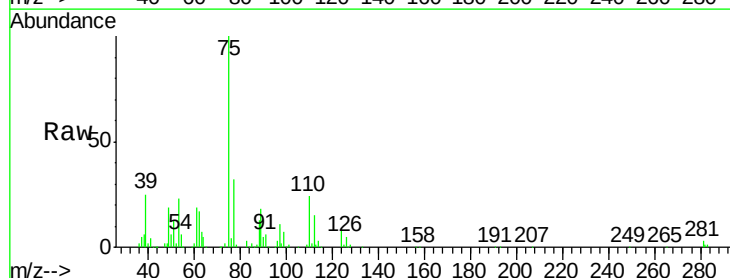
Acq: 5 Mar 2019 11:19

Tgt Ion: 75 Resp: 382225

Ion	Ratio	Lower	Upper
75	100		
77	31.7	16.2	48.6

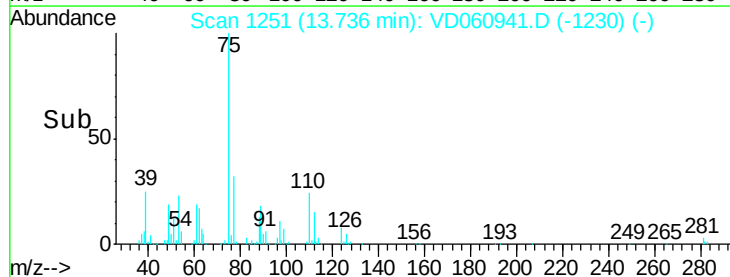
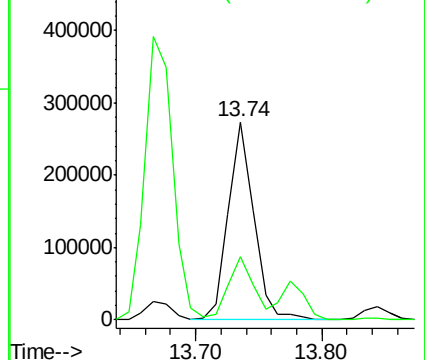
75 100

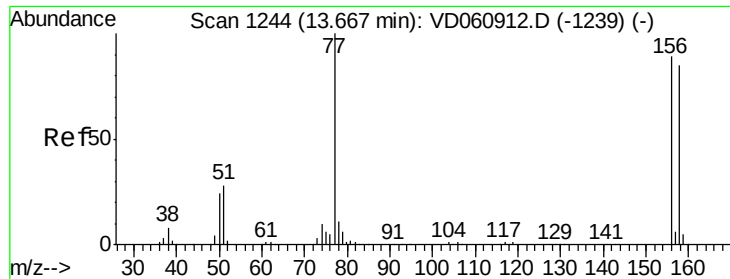
77 31.7 16.2 48.6



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 50.969 ug/l

RT: 13.68 min Scan# 1245

Delta R.T. 0.01 min

Lab File: VD060941.D

Acq: 5 Mar 2019 11:19

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

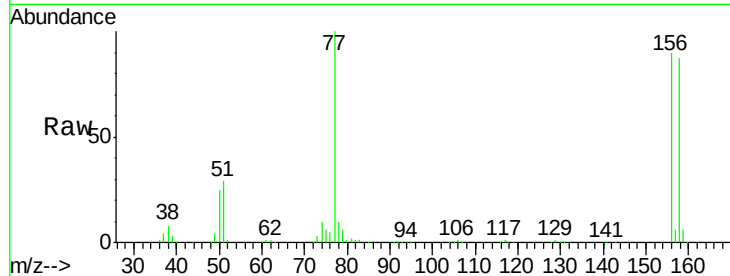
Tot Ion:156 Resp: 459488

Ion Ratio Lower Upper

156 100

77 111.4 56.4 169.2

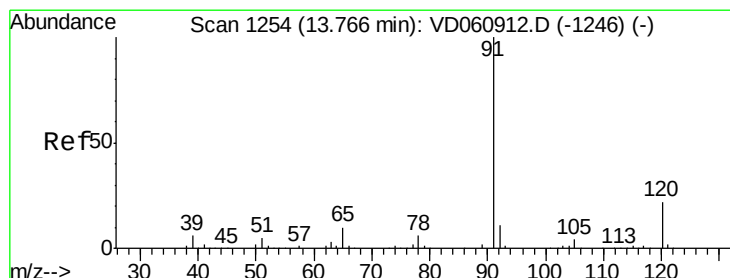
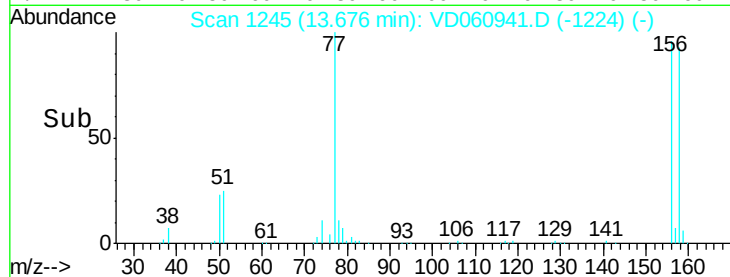
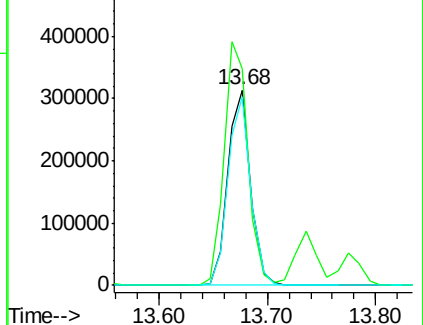
158 96.7 48.0 144.2



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: 52.354 ug/l

RT: 13.77 min Scan# 1255

Delta R.T. 0.01 min

Lab File: VD060941.D

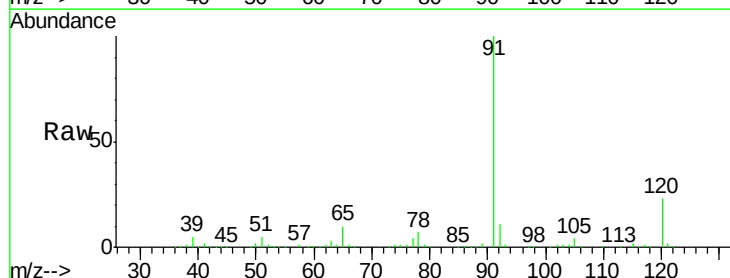
Acq: 5 Mar 2019 11:19

Tgt Ion: 91 Resp: 2077459

Ion Ratio Lower Upper

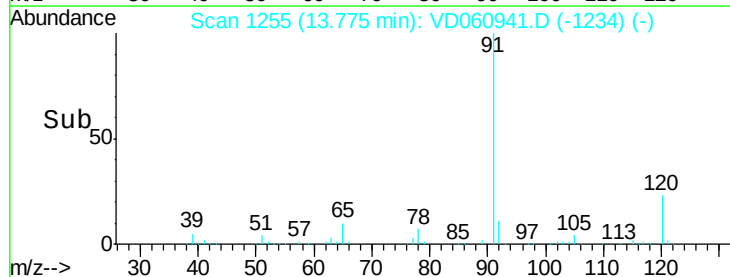
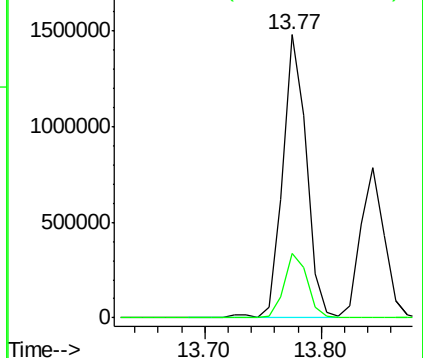
91 100

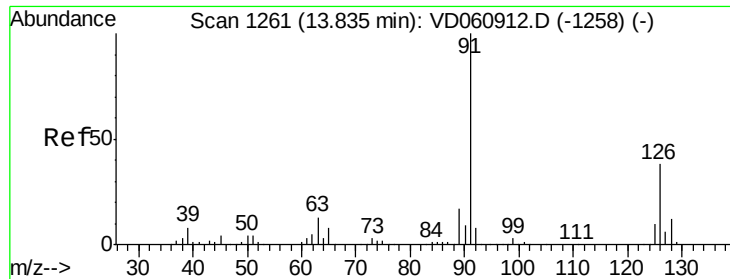
120 23.0 11.0 33.0



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

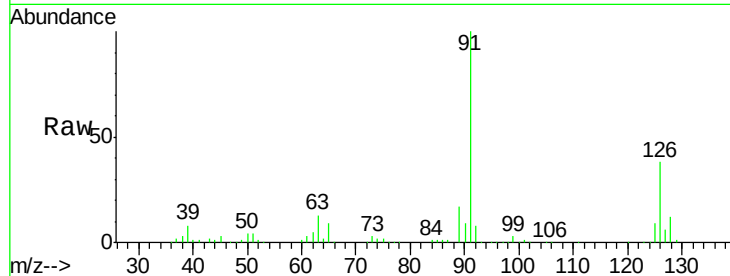




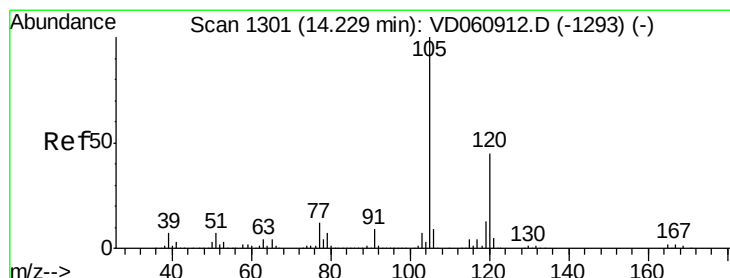
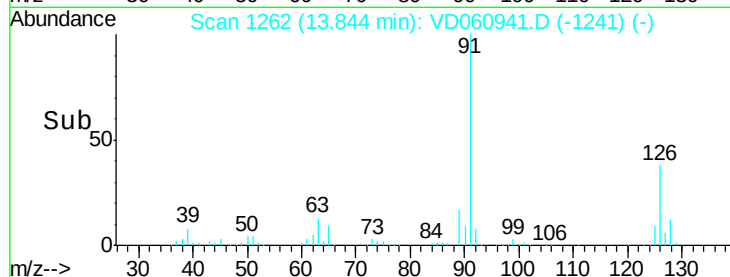
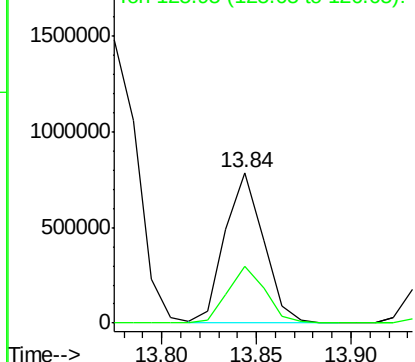
#79
2-Chlorotoluene
Concen: 48.613 ug/l
RT: 13.84 min Scan# 1262
Delta R.T. 0.01 min
Lab File: VD060941.D
Acq: 5 Mar 2019 11:19

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1101680
Ion Ratio Lower Upper
91 100
126 38.1 18.8 56.3

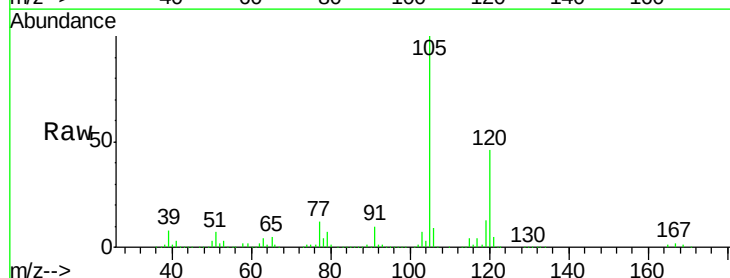


Abundance Ion 91.00 (90.70 to 91.70): V
Ion 125.95 (125.65 to 126.65): V

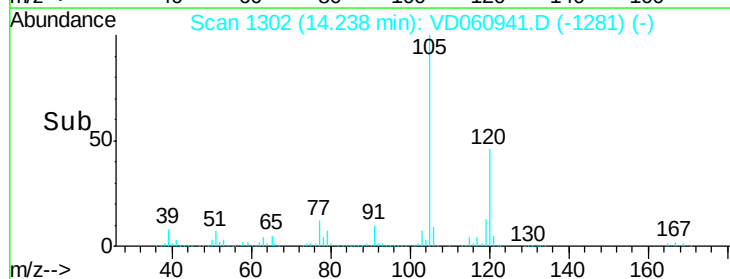
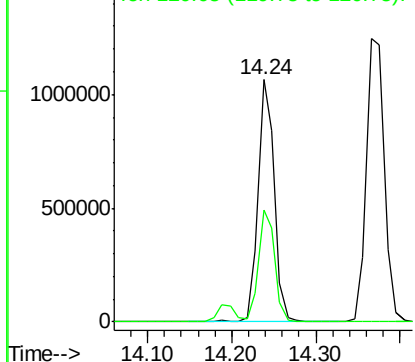


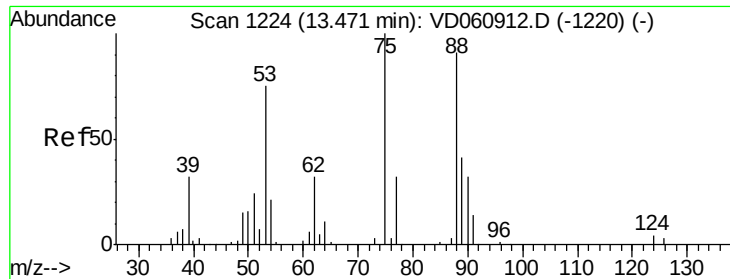
#80
1,3,5-Trimethylbenzene
Concen: 55.284 ug/l
RT: 14.24 min Scan# 1302
Delta R.T. 0.01 min
Lab File: VD060941.D
Acq: 5 Mar 2019 11:19

Tgt Ion:105 Resp: 1446019
Ion Ratio Lower Upper
105 100
120 46.2 22.7 68.1



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





#81

trans-1,4-Dichloro-2-butene

Concen: 54.038 ug/l

RT: 13.48 min Scan# 1225

Delta R.T. 0.01 min

Lab File: VD060941.D

Acq: 5 Mar 2019 11:19

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

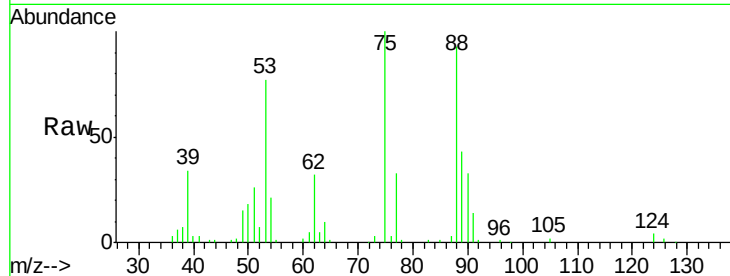
Tot Ion: 75 Resp: 115674

Ion Ratio Lower Upper

75 100

53 77.3 59.8 89.6

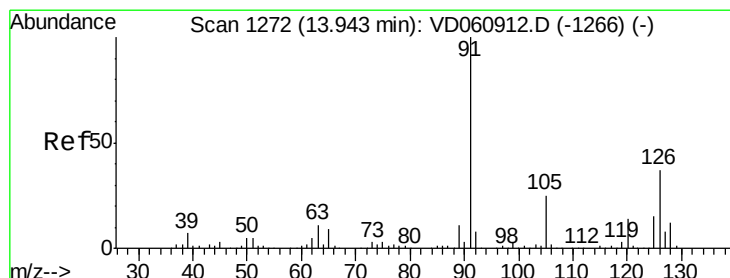
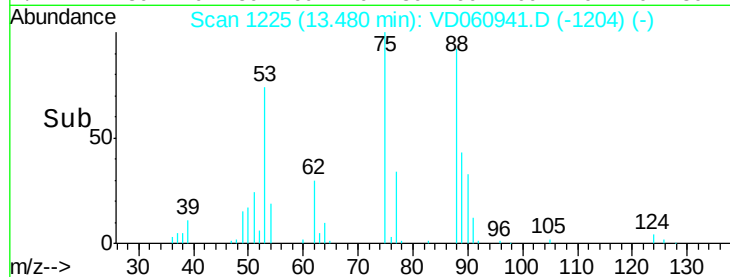
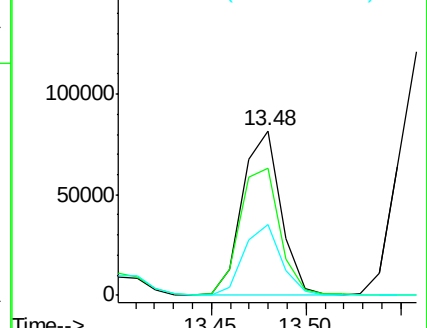
89 43.1 33.0 49.6



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: 51.462 ug/l

RT: 13.95 min Scan# 1273

Delta R.T. 0.01 min

Lab File: VD060941.D

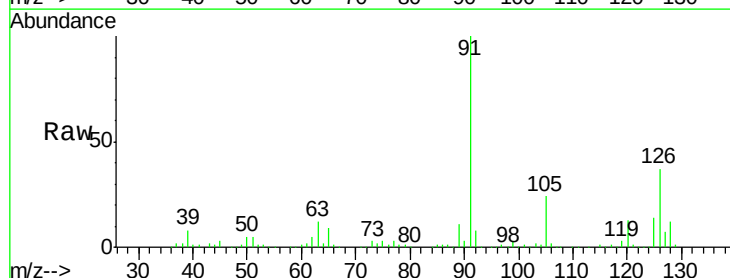
Acq: 5 Mar 2019 11:19

Tgt Ion: 91 Resp: 1279159

Ion Ratio Lower Upper

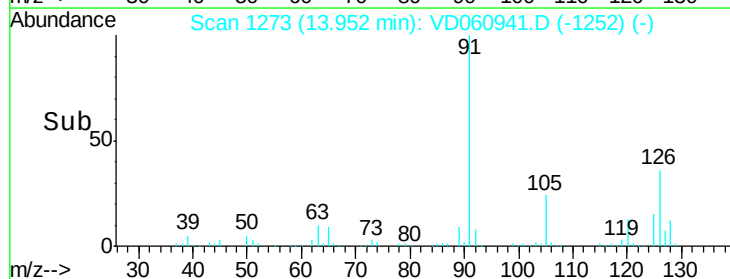
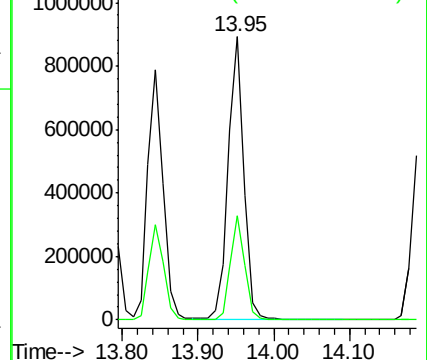
91 100

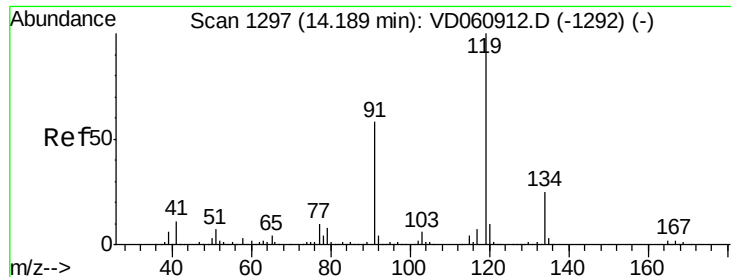
126 36.8 18.4 55.2



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V

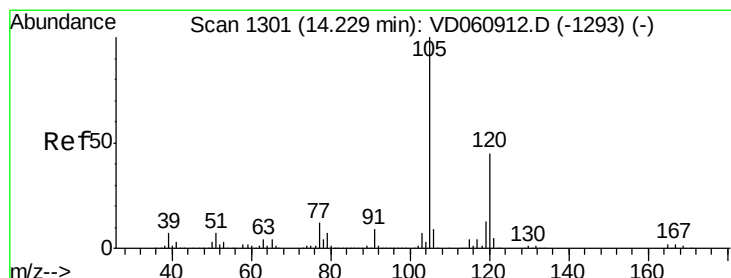
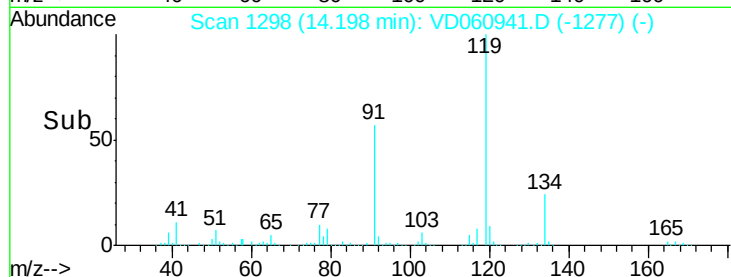
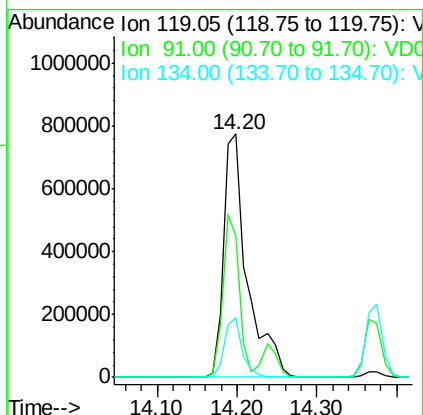
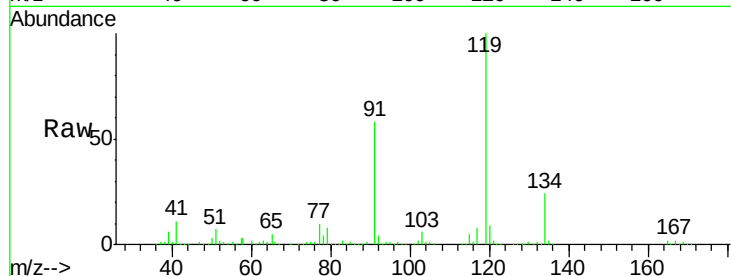




#83
 tert-Butylbenzene
 Concen: 53.868 ug/l
 RT: 14.20 min Scan# 1298
 Delta R.T. 0.01 min
 Lab File: VD060941.D
 Acq: 5 Mar 2019 11:19

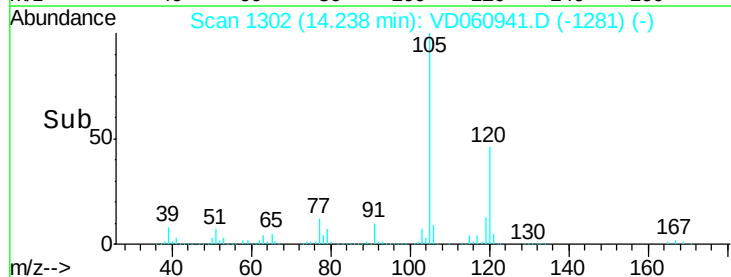
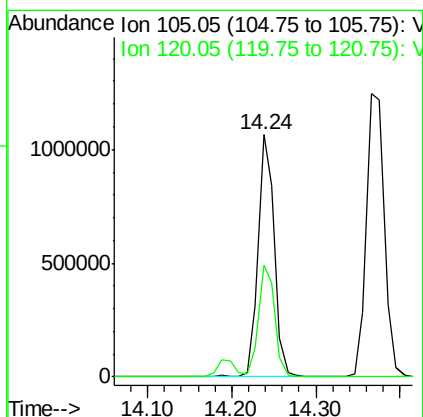
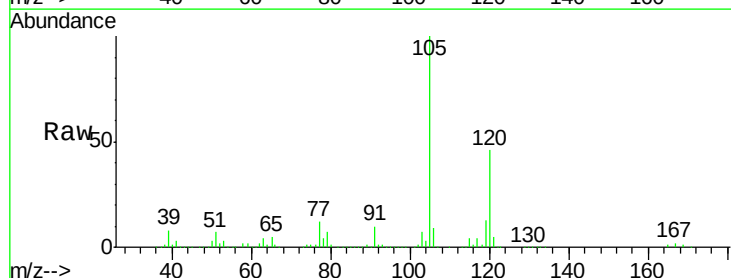
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

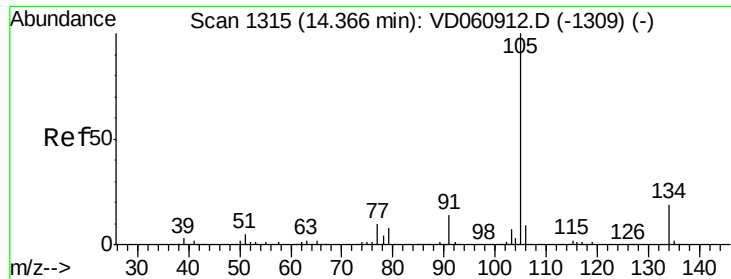
Tot Ion:119 Resp: 1613191
 Ion Ratio Lower Upper
 119 100
 91 58.0 28.8 86.5
 134 24.1 12.6 37.6



#84
 1,2,4-Trimethylbenzene
 Concen: 55.284 ug/l
 RT: 14.24 min Scan# 1302
 Delta R.T. 0.01 min
 Lab File: VD060941.D
 Acq: 5 Mar 2019 11:19

Tgt Ion:105 Resp: 1446019
 Ion Ratio Lower Upper
 105 100
 120 46.2 22.7 68.1





#85

sec-Butylbenzene

Concen: 53.256 ug/l

RT: 14.37 min Scan# 1315

Delta R.T. -0.00 min

Lab File: VD060941.D

Acq: 5 Mar 2019 11:19

Instrument :

MSVOA_D

ClientSampled :

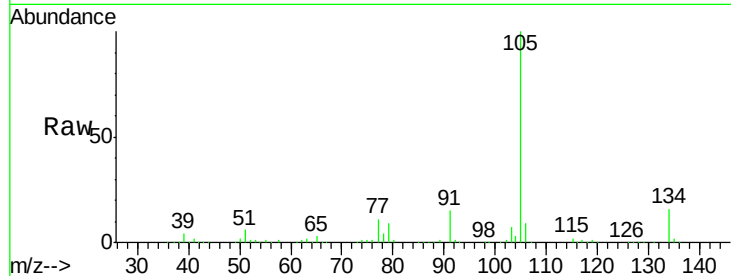
VSTDCCC050

Tot Ion:105 Resp: 1848935

Ion Ratio Lower Upper

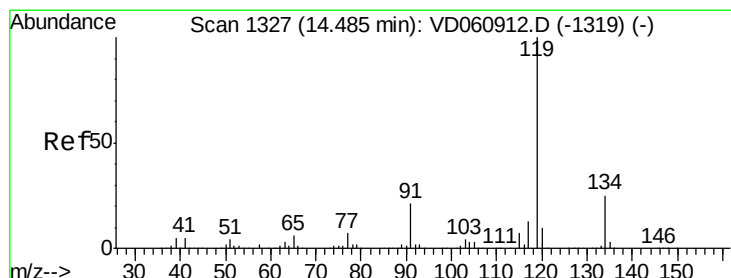
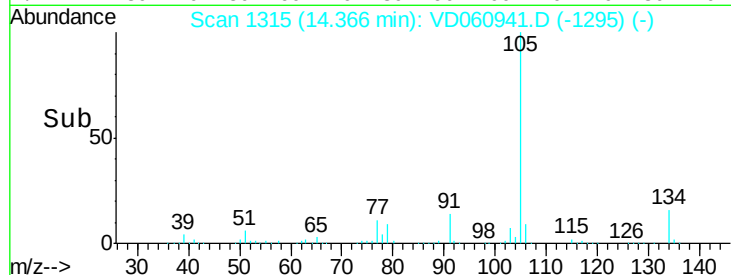
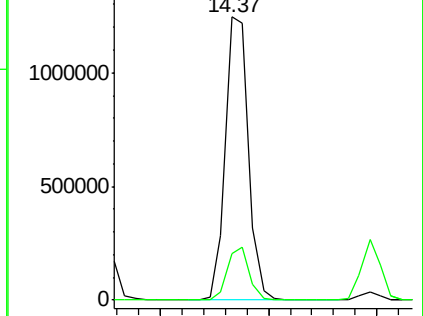
105 100

134 16.4 9.7 28.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#86

p-Isopropyltoluene

Concen: 48.353 ug/l

RT: 14.49 min Scan# 1328

Delta R.T. 0.01 min

Lab File: VD060941.D

Acq: 5 Mar 2019 11:19

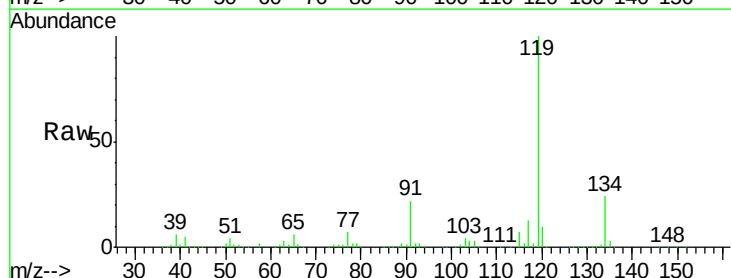
Tgt Ion:119 Resp: 1367334

Ion Ratio Lower Upper

119 100

134 23.9 12.4 37.0

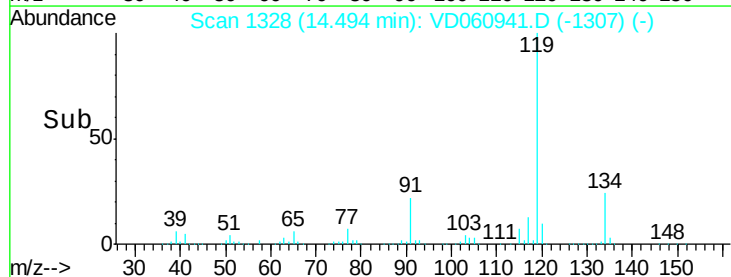
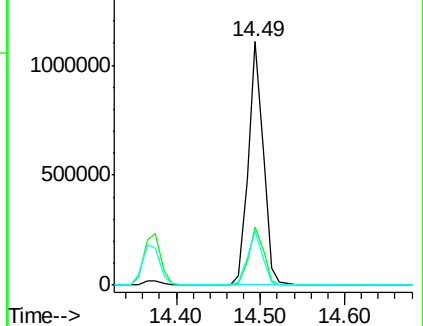
91 22.3 10.8 32.3

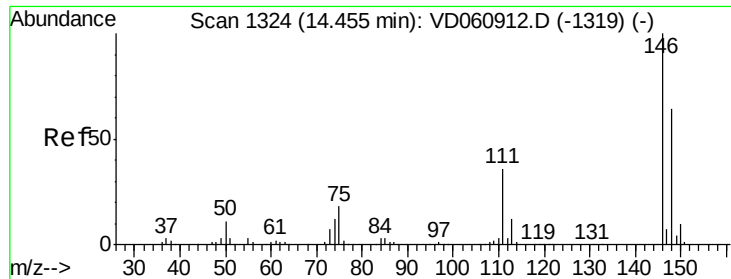


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

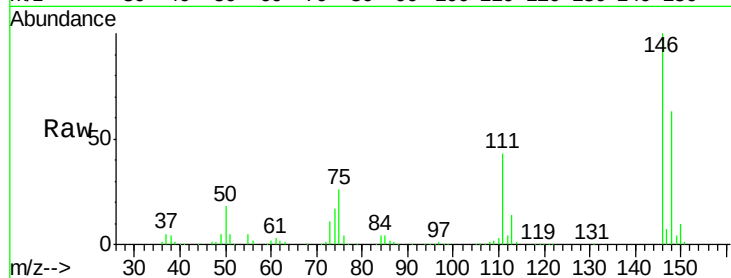




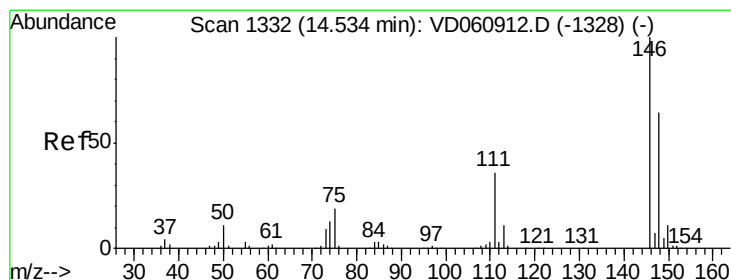
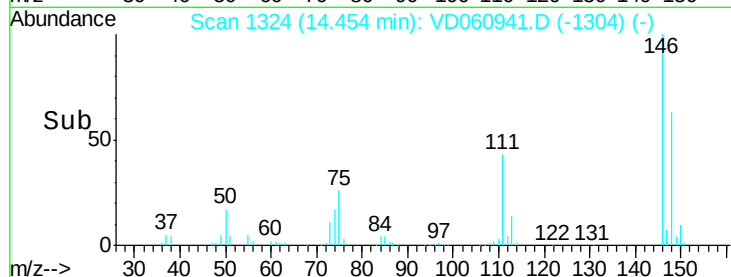
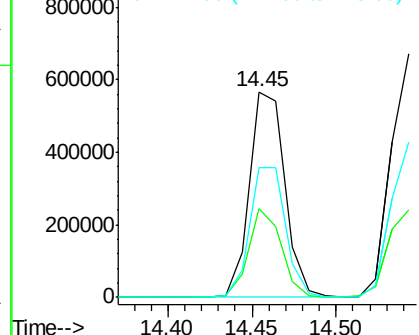
#87
 1,3-Dichlorobenzene
 Concen: 54.107 ug/l
 RT: 14.45 min Scan# 1324
 Delta R.T. -0.00 min
 Lab File: VD060941.D
 Acq: 5 Mar 2019 11:19

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tot Ion:146 Resp: 828699
 Ion Ratio Lower Upper
 146 100
 111 42.9 18.1 54.1
 148 62.9 32.1 96.3

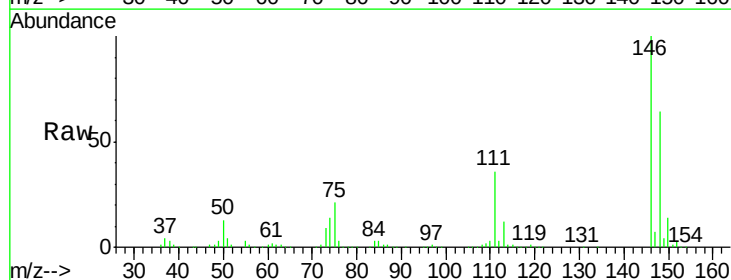


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

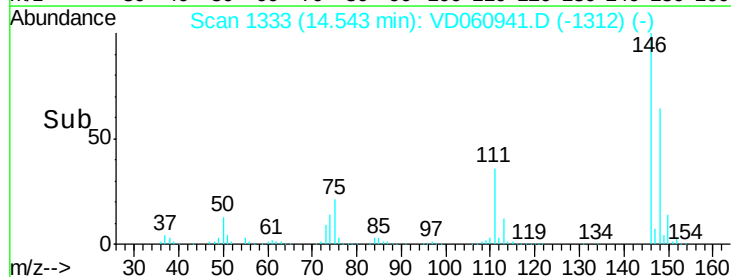
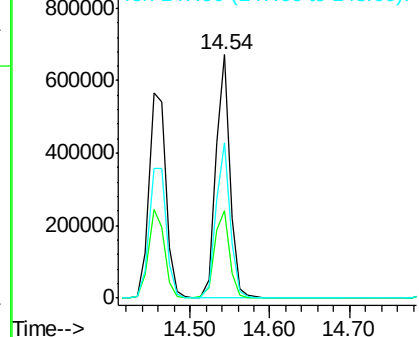


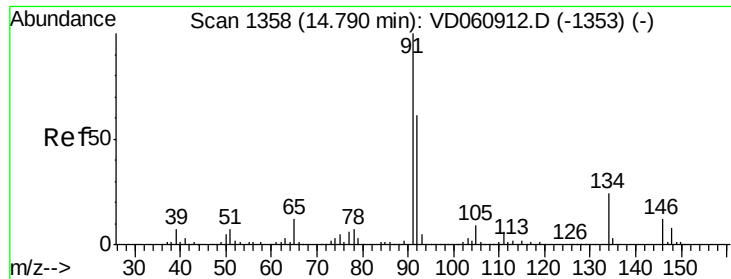
#88
 1,4-Dichlorobenzene
 Concen: 54.951 ug/l
 RT: 14.54 min Scan# 1333
 Delta R.T. 0.01 min
 Lab File: VD060941.D
 Acq: 5 Mar 2019 11:19

Tgt Ion:146 Resp: 835808
 Ion Ratio Lower Upper
 146 100
 111 36.1 17.9 53.8
 148 63.5 32.0 96.0



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

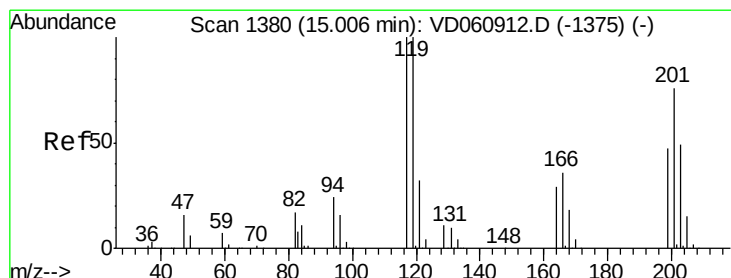
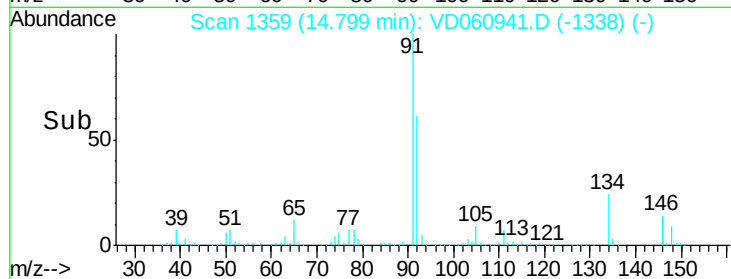
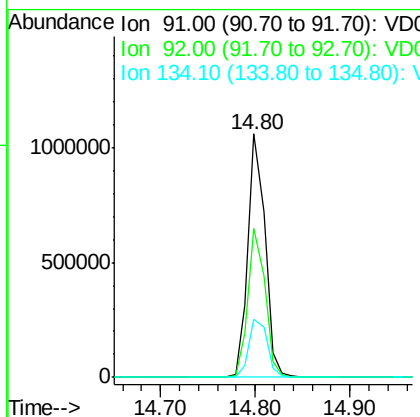
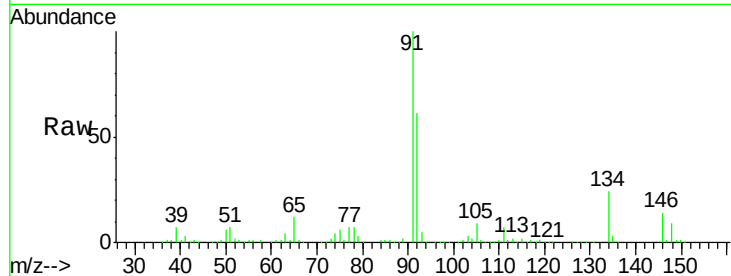




#89
n-Butylbenzene
Concen: 55.316 ug/l
RT: 14.80 min Scan# 1359
Delta R.T. 0.01 min
Lab File: VD060941.D
Acq: 5 Mar 2019 11:19

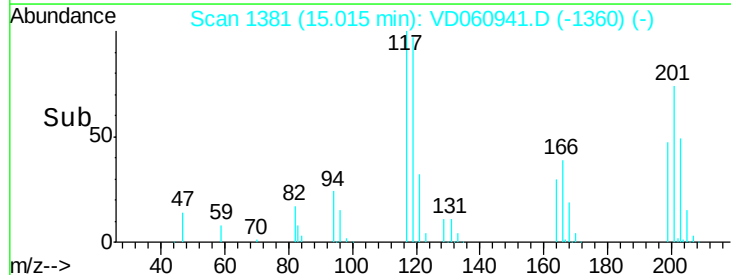
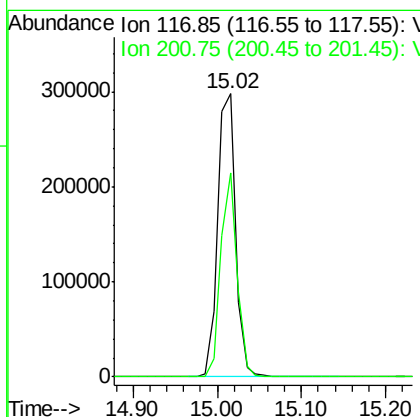
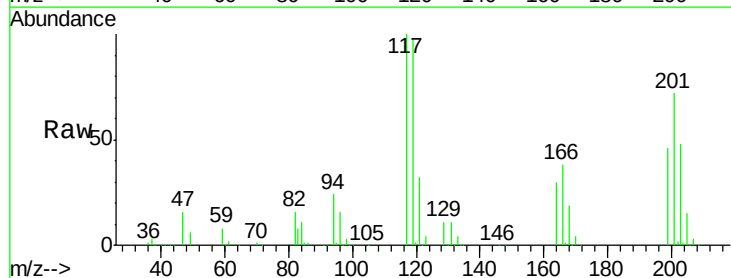
Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

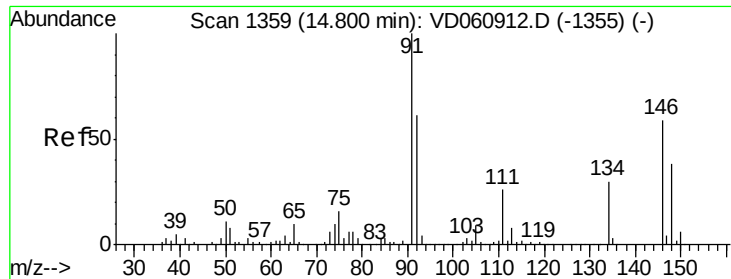
Tot Ion: 91 Resp: 1332442
Ion Ratio Lower Upper
91 100
92 61.0 30.6 91.6
134 23.6 12.0 36.0



#90
Hexachloroethane
Concen: 54.027 ug/l
RT: 15.02 min Scan# 1381
Delta R.T. 0.01 min
Lab File: VD060941.D
Acq: 5 Mar 2019 11:19

Tgt Ion: 117 Resp: 440605
Ion Ratio Lower Upper
117 100
201 72.3 37.8 113.4

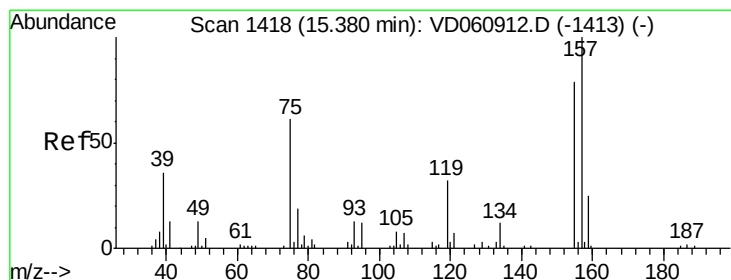
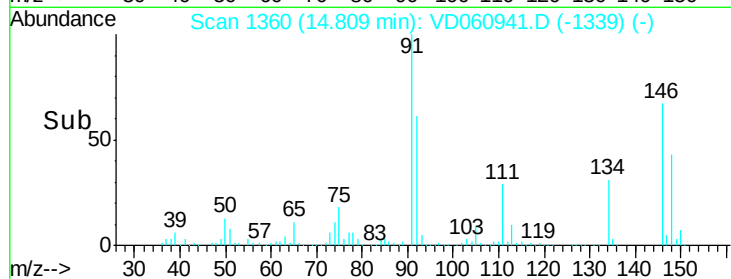
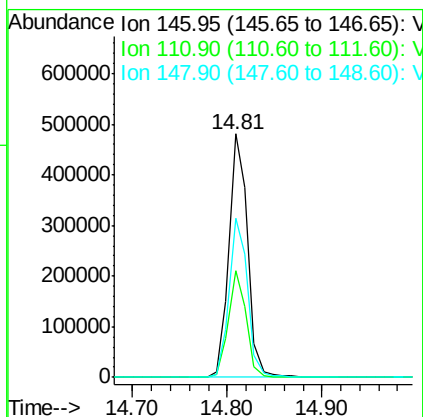
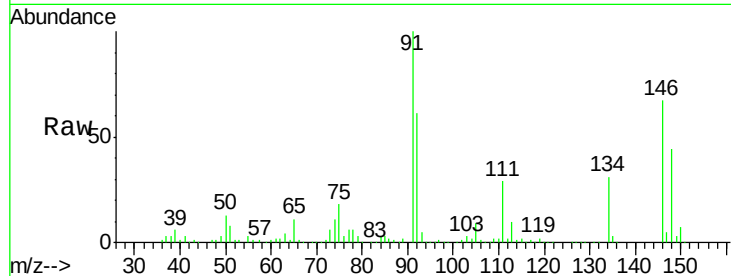




#91
 1,2-Dichlorobenzene
 Concen: 49.205 ug/l
 RT: 14.81 min Scan# 1360
 Delta R.T. 0.01 min
 Lab File: VD060941.D
 Acq: 5 Mar 2019 11:19

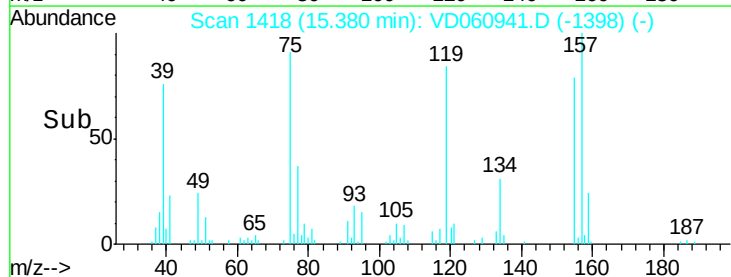
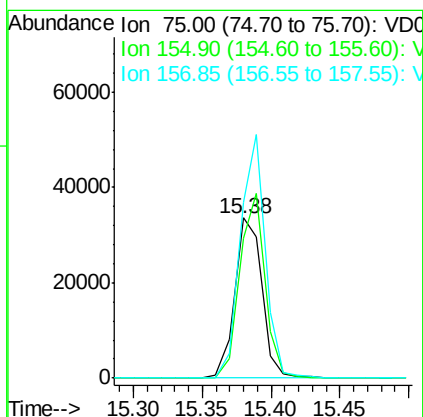
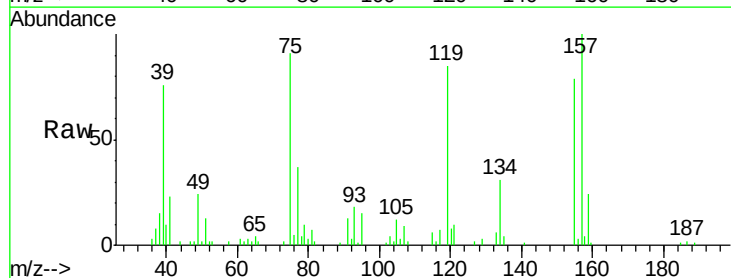
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

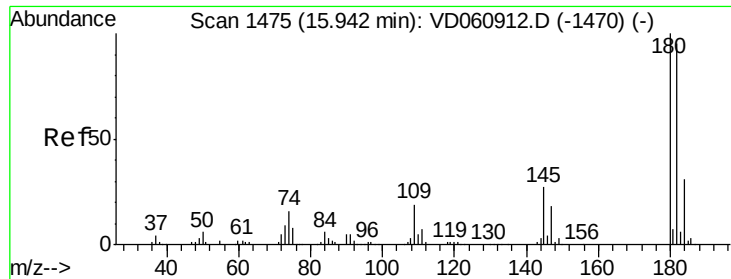
Tot Ion:146 Resp: 652952
 Ion Ratio Lower Upper
 146 100
 111 44.0 22.1 66.3
 148 65.2 32.1 96.5



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 55.294 ug/l
 RT: 15.38 min Scan# 1418
 Delta R.T. -0.00 min
 Lab File: VD060941.D
 Acq: 5 Mar 2019 11:19

Tgt Ion: 75 Resp: 46282
 Ion Ratio Lower Upper
 75 100
 155 87.4 65.0 195.0
 157 110.0 81.8 245.3

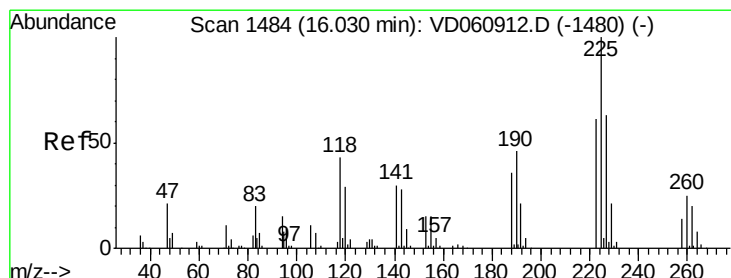
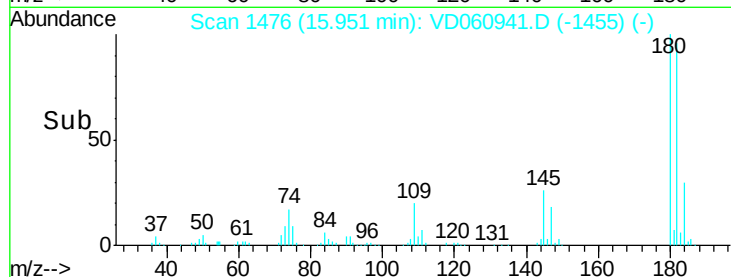
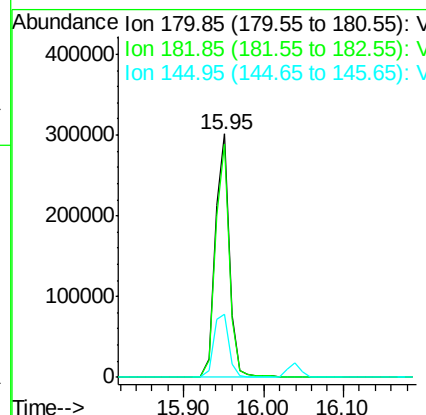
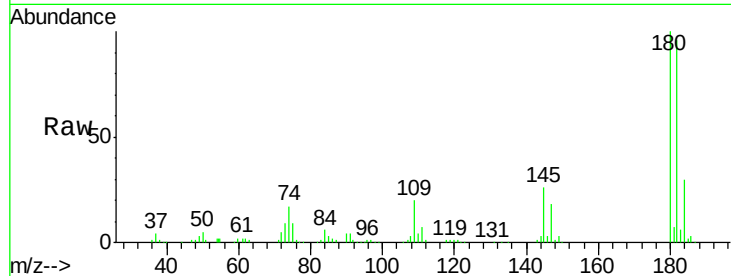




#93
 1,2,4-Trichlorobenzene
 Concen: 48.886 ug/l
 RT: 15.95 min Scan# 1476
 Delta R.T. 0.01 min
 Lab File: VD060941.D
 Acq: 5 Mar 2019 11:19

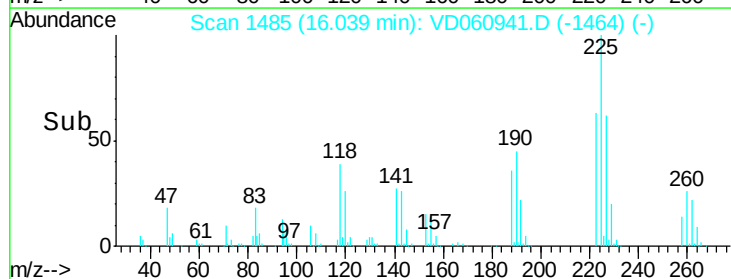
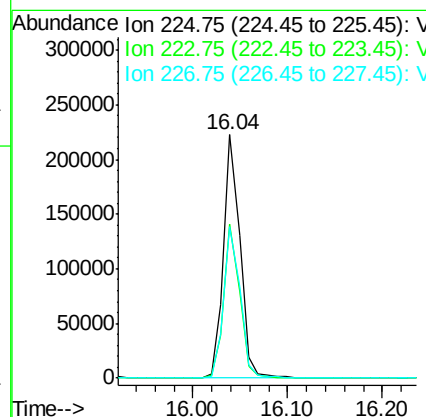
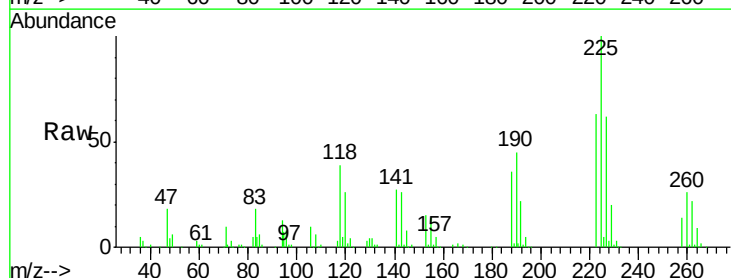
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

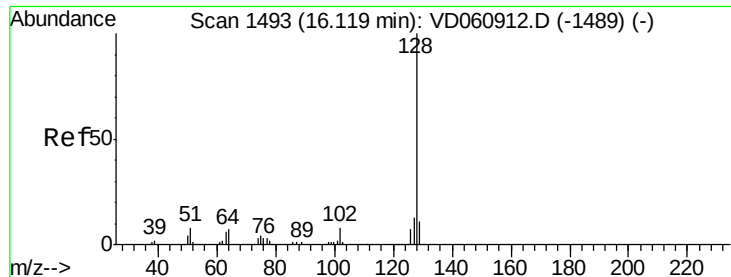
Tot Ion:180 Resp: 376682
 Ion Ratio Lower Upper
 180 100
 182 95.8 47.5 142.6
 145 26.2 13.5 40.5



#94
 Hexachlorobutadiene
 Concen: 54.411 ug/l
 RT: 16.04 min Scan# 1485
 Delta R.T. 0.01 min
 Lab File: VD060941.D
 Acq: 5 Mar 2019 11:19

Tgt Ion:225 Resp: 269099
 Ion Ratio Lower Upper
 225 100
 223 63.2 30.4 91.3
 227 62.2 31.4 94.2

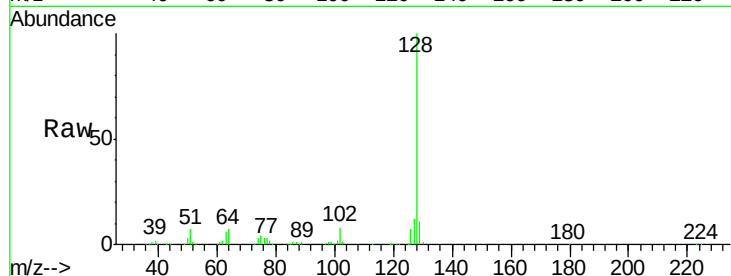




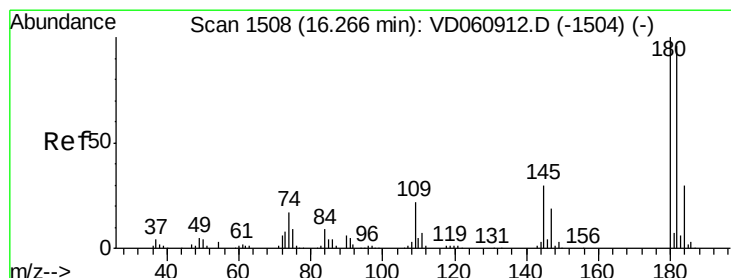
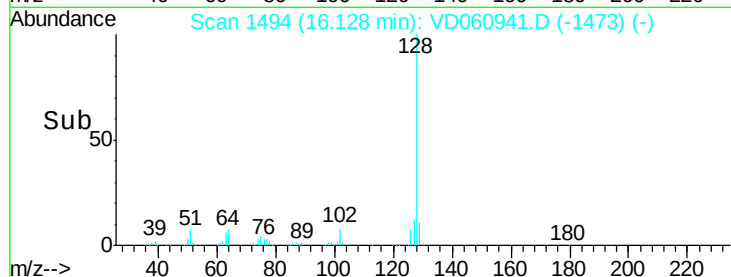
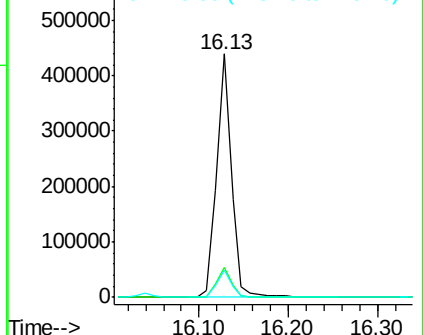
#95
Naphthalene
Concen: 42.609 ug/l
RT: 16.13 min Scan# 1494
Delta R.T. 0.01 min
Lab File: VD060941.D
Acq: 5 Mar 2019 11:19

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tot Ion:128 Resp: 511263
Ion Ratio Lower Upper
128 100
127 12.2 10.1 15.1
129 11.0 8.7 13.1

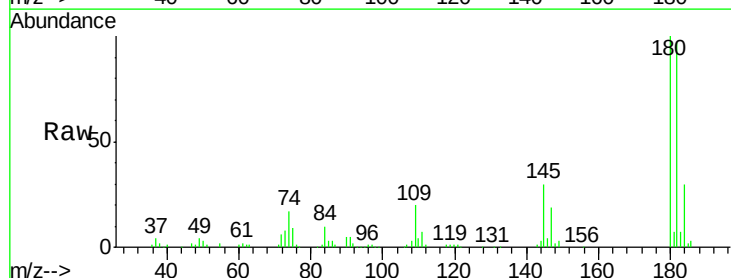


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 47.271 ug/l
RT: 16.28 min Scan# 1509
Delta R.T. 0.01 min
Lab File: VD060941.D
Acq: 5 Mar 2019 11:19

Tgt Ion:180 Resp: 204550
Ion Ratio Lower Upper
180 100
182 96.8 48.1 144.4
145 29.8 14.8 44.4



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

