

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062018\
 Data File : VD058228.D
 Acq On : 21 Jun 2018 1:44
 Operator : VA/AP
 Sample : VD0620SBSD03
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0620SBSD03

Quant Time: Jun 21 05:17:43 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 20 05:52:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	863288	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.69	114	1096644	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.69	117	930875	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	479140	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.02	65	455120	52.19	ug/l	0.01
Spiked Amount	50.000		Recovery	=	104.38%	
35) Dibromofluoromethane	5.55	113	474587	53.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.34%	
50) Toluene-d8	8.71	98	1107995	51.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.62%	
62) 4-Bromofluorobenzene	11.94	95	445806	50.54	ug/l	0.01
Spiked Amount	50.000		Recovery	=	101.08%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.34	85	206932	23.42	ug/l	98
3) Chloromethane	1.49	50	104926	25.74	ug/l	91
4) Vinyl Chloride	1.55	62	102263	22.61	ug/l	99
5) Bromomethane	1.78	94	32586	19.04	ug/l	94
6) Chloroethane	1.87	64	34596	19.61	ug/l	96
7) Trichlorofluoromethane	2.08	101	136002	21.93	ug/l	93
8) Diethyl Ether	2.34	74	31917	24.34	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	2.55	101	88791	22.52	ug/l	94
10) Methyl Iodide	2.69	142	92094	20.54	ug/l	96
11) Tert butyl alcohol	3.27	59	31897	110.91	ug/l #	92
12) 1,1-Dichloroethene	2.54	96	61219	20.64	ug/l	98
13) Acrolein	2.47	56	18267	111.26	ug/l	97
14) Allyl chloride	2.91	41	155269	22.49	ug/l	91
15) Acrylonitrile	3.36	53	87357	114.56	ug/l	94
16) Acetone	2.61	43	125383	105.14	ug/l #	86
17) Carbon Disulfide	2.75	76	214296	21.24	ug/l	100
18) Methyl Acetate	2.93	43	53845	21.17	ug/l	100
19) Methyl tert-butyl Ether	3.41	73	192358	24.45	ug/l	92
20) Methylene Chloride	3.07	84	83524	24.39	ug/l	86
21) trans-1,2-Dichloroethene	3.39	96	68910	21.26	ug/l	82
22) Diisopropyl ether	4.07	45	604283	22.04	ug/l	97
23) Vinyl Acetate	4.02	43	1689758	114.97	ug/l	100
24) 1,1-Dichloroethane	3.98	63	340758	23.07	ug/l	97
25) 2-Butanone	4.84	43	277832	106.90	ug/l	97
26) 2,2-Dichloropropane	4.79	77	240046	19.41	ug/l	98
27) cis-1,2-Dichloroethene	4.80	96	192365	23.75	ug/l	95
28) Bromochloromethane	5.15	49	150788	22.77	ug/l	94
29) Tetrahydrofuran	5.19	42	154650	111.79	ug/l	100
30) Chloroform	5.32	83	348995	22.38	ug/l	96
31) Cyclohexane	5.59	56	275679	22.87	ug/l	95
32) 1,1,1-Trichloroethane	5.51	97	275037	21.35	ug/l	97
36) 1,1-Dichloropropene	5.75	75	241132	22.23	ug/l	99
37) Ethyl Acetate	4.93	43	145296	23.51	ug/l	98
38) Carbon Tetrachloride	5.72	117	236817	21.97	ug/l	96

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 Quant Title : SW846 8260
 QLast Update : Wed Jun 20 05:52:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.28	83	236558	22.39	ug/l	99
40) Benzene	6.01	78	577681	22.35	ug/l	100
41) Methacrylonitrile	5.13	41	71489	23.95	ug/l	95
42) 1,2-Dichloroethane	6.13	62	239450	22.98	ug/l	99
43) Isopropyl Acetate	7.62	43	183362	22.25	ug/l #	99
44) Trichloroethene	6.99	130	174961	22.55	ug/l	95
45) 1,2-Dichloropropane	7.35	63	165038	23.71	ug/l	97
46) Dibromomethane	7.46	93	113551	23.90	ug/l	87
47) Bromodichloromethane	7.75	83	253742	23.42	ug/l	94
48) Methyl methacrylate	7.51	41	110341	22.03	ug/l	96
49) 1,4-Dioxane	7.50	88	21582	477.37	ug/l #	87
51) 4-Methyl-2-Pentanone	8.60	43	626507	116.55	ug/l	99
52) Toluene	8.81	92	344990	23.44	ug/l	97
53) t-1,3-Dichloropropene	9.19	75	209817	22.27	ug/l	99
54) cis-1,3-Dichloropropene	8.37	75	251339	22.76	ug/l	94
55) 1,1,2-Trichloroethane	9.46	97	119861	23.02	ug/l	96
56) Ethyl methacrylate	9.32	69	143298	23.01	ug/l	98
57) 1,3-Dichloropropane	9.68	76	204602	23.33	ug/l	95
58) 2-Chloroethyl Vinyl ether	8.19	63	361328	117.22	ug/l	97
59) 2-Hexanone	9.79	43	441168	113.59	ug/l	92
60) Dibromochloromethane	9.96	129	159140	22.52	ug/l	99
61) 1,2-Dibromoethane	10.10	107	127033	22.29	ug/l	90
64) Tetrachloroethene	9.52	164	190834	24.36	ug/l	94
65) Chlorobenzene	10.73	112	391782	22.50	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.86	131	140952	20.98	ug/l	99
67) Ethyl Benzene	10.87	91	669488	21.78	ug/l	99
68) m/p-Xylenes	11.01	106	444180	43.33	ug/l	98
69) o-Xylene	11.41	106	200407	20.47	ug/l	94
70) Styrene	11.44	104	366612	21.94	ug/l	99
71) Bromoform	11.61	173	113819	21.23	ug/l #	94
73) Isopropylbenzene	11.77	105	597417	20.85	ug/l	98
74) N-amyl acetate	11.65	43	239981	21.66	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.08	83	143597	21.53	ug/l	97
76) 1,2,3-Trichloropropane	12.12	75	152587	21.81	ug/l	99
77) Bromobenzene	12.05	156	198898	23.18	ug/l	97
78) n-propylbenzene	12.16	91	826894	22.34	ug/l	97
79) 2-Chlorotoluene	12.22	91	458773	21.66	ug/l	99
80) 1,3,5-Trimethylbenzene	12.32	105	511776	22.89	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.85	75	32497	19.05	ug/l #	80
82) 4-Chlorotoluene	12.33	91	543689	23.45	ug/l	100
83) tert-Butylbenzene	12.58	119	561888	21.86	ug/l	96
84) 1,2,4-Trimethylbenzene	12.63	105	527715	21.72	ug/l	98
85) sec-Butylbenzene	12.76	105	666398	22.12	ug/l	100
86) p-Isopropyltoluene	12.89	119	535861	21.95	ug/l	97
87) 1,3-Dichlorobenzene	12.85	146	334548	22.43	ug/l	97
88) 1,4-Dichlorobenzene	12.93	146	315450	21.66	ug/l	97
89) n-Butylbenzene	13.20	91	575568	22.43	ug/l	98
90) Hexachloroethane	13.41	117	136257	21.50	ug/l	93
91) 1,2-Dichlorobenzene	13.20	146	291315	22.95	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	13.78	75	22613	21.30	ug/l	90

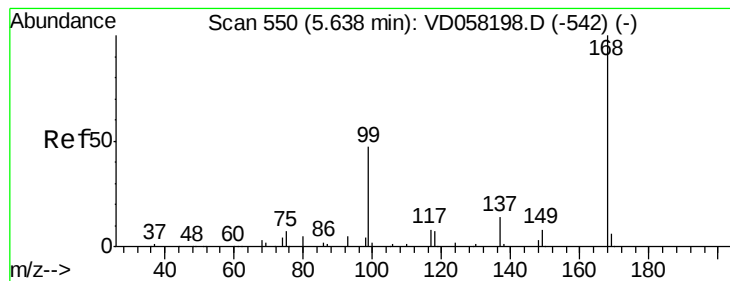
Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062018\
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Quant Title : SW846 8260
QLast Update : Wed Jun 20 05:52:56 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.34	180	261864	21.57	ug/l	98
94) Hexachlorobutadiene	14.44	225	189689	19.98	ug/l	97
95) Naphthalene	14.52	128	347243	21.71	ug/l	100
96) 1,2,3-Trichlorobenzene	14.67	180	218123	20.52	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.65 min Scan# 551

Delta R.T. 0.01 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

Instrument :

MSVOA_D

ClientSampleId :

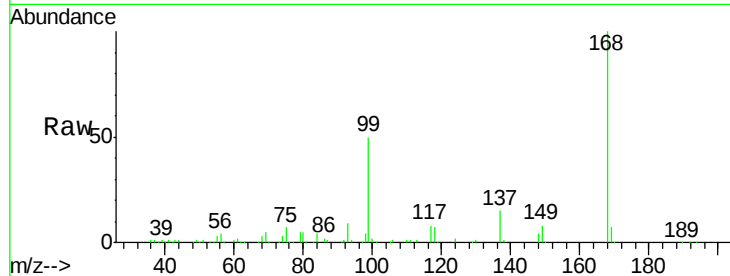
VD0620SBSD03

Tot Ion:168 Resp: 863288

Ion Ratio Lower Upper

168 100

99 50.4 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

5.65

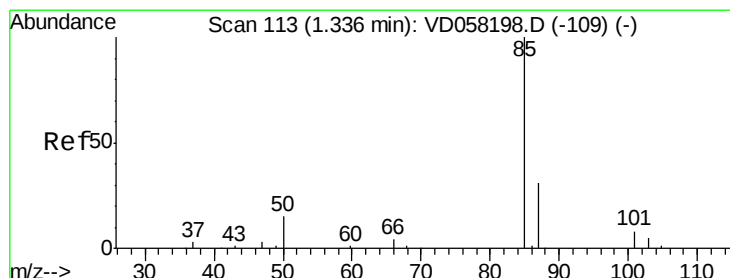
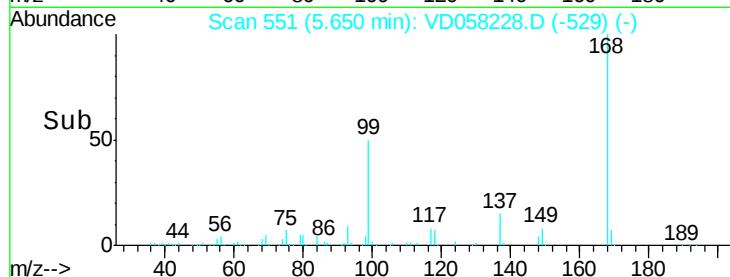
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 23.42 ug/l

RT: 1.34 min Scan# 113

Delta R.T. 0.00 min

Lab File: VD058228.D

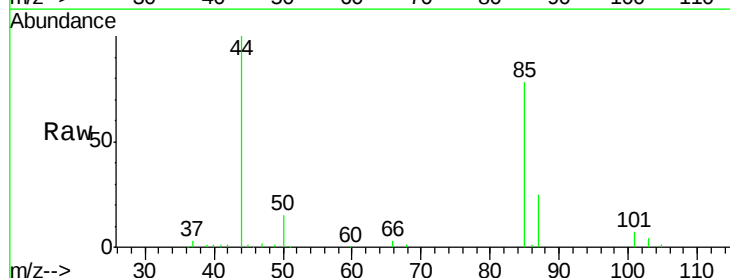
Acq: 21 Jun 2018 1:44

Tgt Ion: 85 Resp: 206932

Ion Ratio Lower Upper

85 100

87 32.3 15.7 47.0



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.34

80000

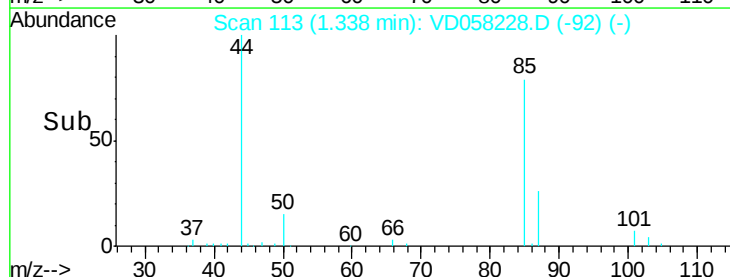
60000

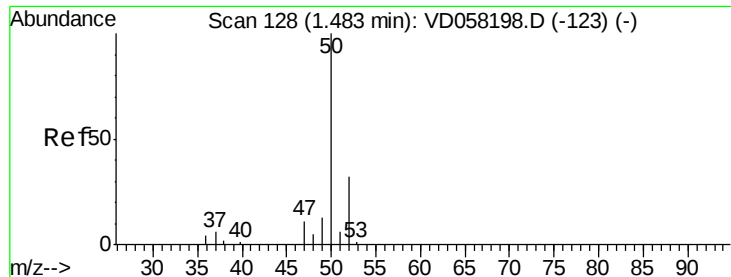
40000

20000

0

Time-->





#3

Chloromethane

Concen: 25.74 ug/l

RT: 1.49 min Scan# 128

Delta R.T. 0.00 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

Instrument :

MSVOA_D

ClientSampleId :

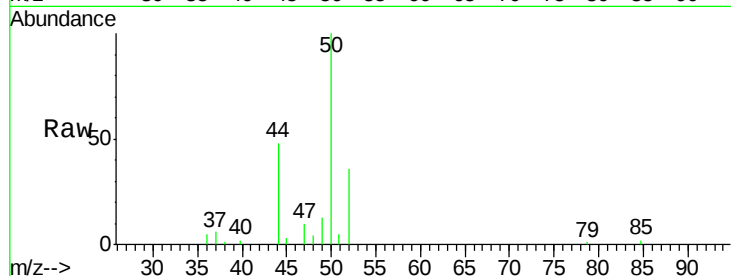
VD0620SBSD03

Tot Ion: 50 Resp: 104926

Ion Ratio Lower Upper

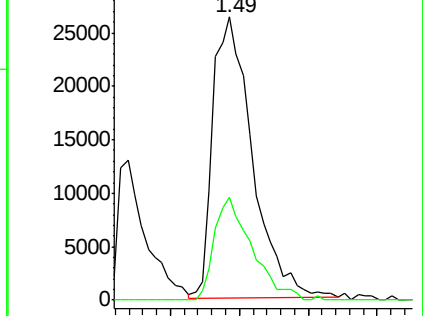
50 100

52 36.3 25.0 37.4

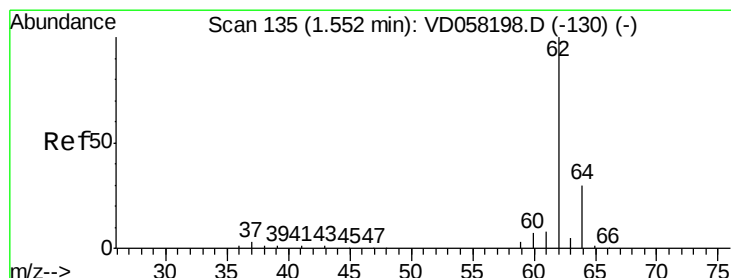
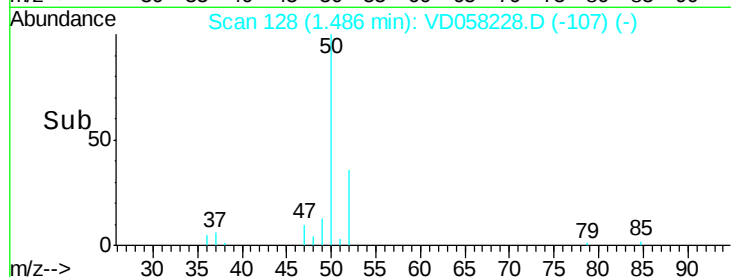


Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



Time-->



#4

Vinyl Chloride

Concen: 22.61 ug/l

RT: 1.55 min Scan# 135

Delta R.T. 0.00 min

Lab File: VD058228.D

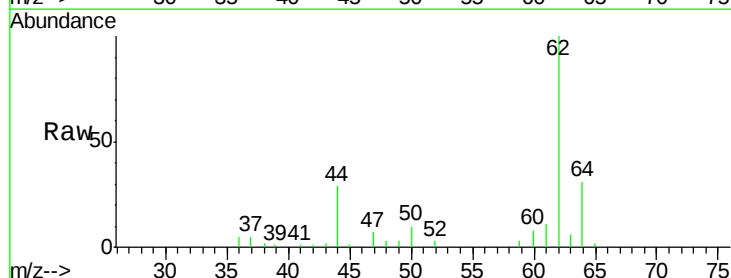
Acq: 21 Jun 2018 1:44

Tgt Ion: 62 Resp: 102263

Ion Ratio Lower Upper

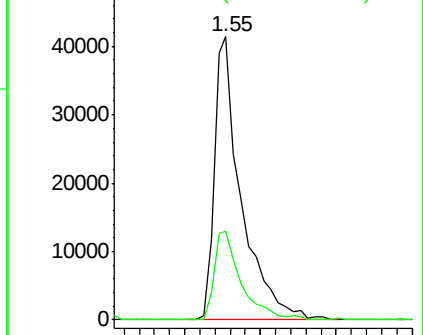
62 100

64 31.3 24.4 36.6

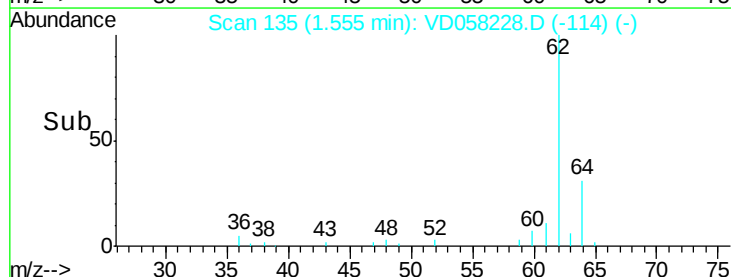


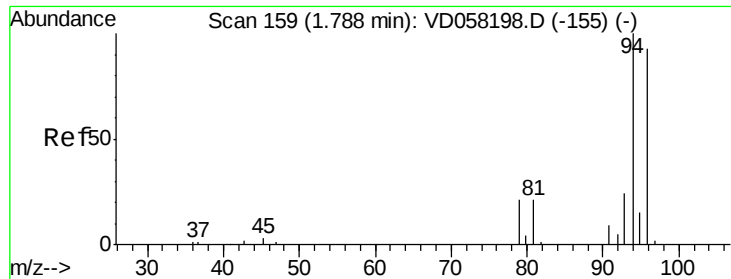
Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC



Time-->





#5

Bromomethane

Concen: 19.04 ug/l

RT: 1.78 min Scan# 158

Delta R.T. -0.01 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

Instrument :

MSVOA_D

ClientSampleId :

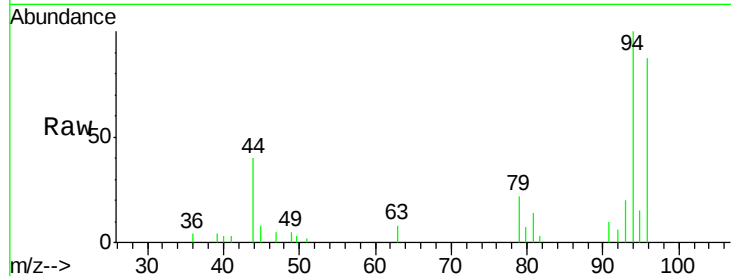
VD0620SBSD03

Tot Ion: 94 Resp: 32586

Ion Ratio Lower Upper

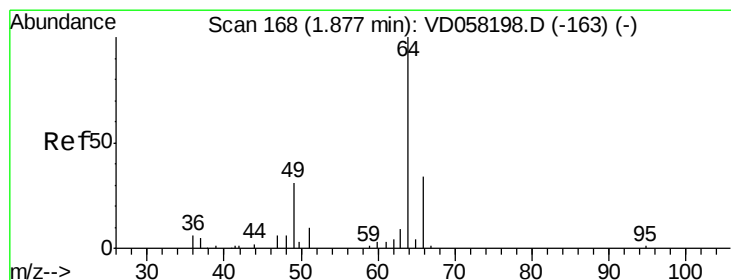
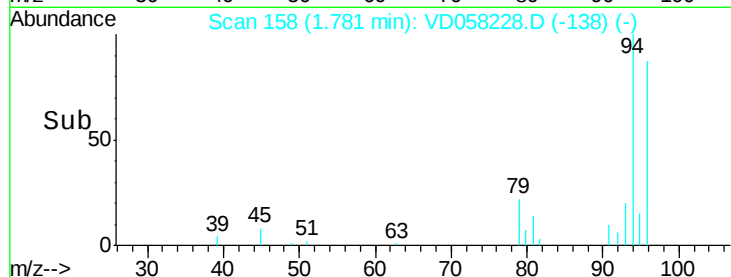
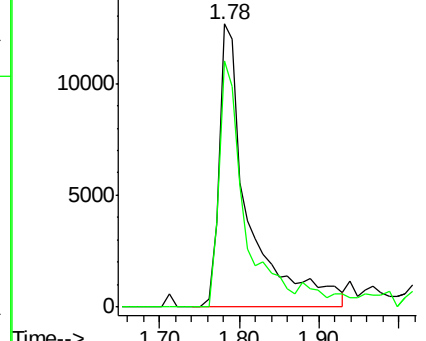
94 100

96 86.8 74.2 111.2



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 19.61 ug/l

RT: 1.87 min Scan# 167

Delta R.T. -0.01 min

Lab File: VD058228.D

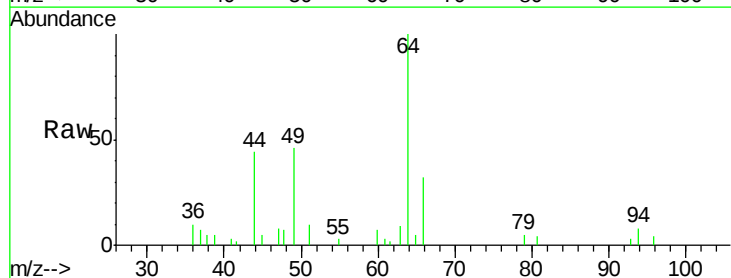
Acq: 21 Jun 2018 1:44

Tgt Ion: 64 Resp: 34596

Ion Ratio Lower Upper

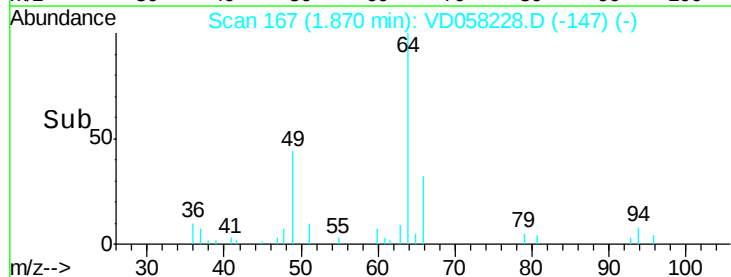
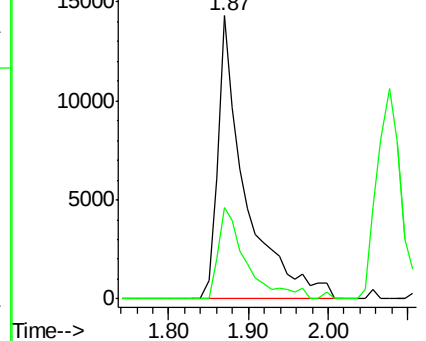
64 100

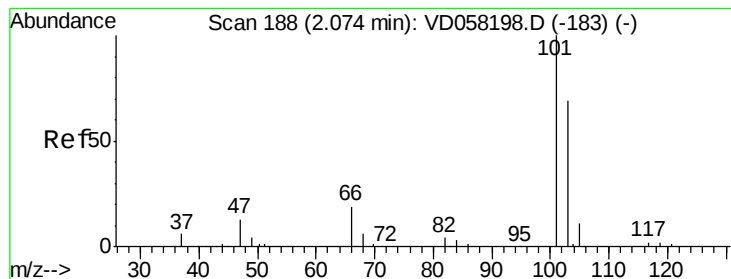
66 32.1 27.3 40.9



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



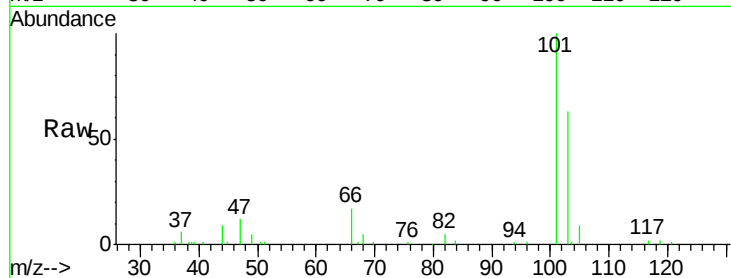


#7

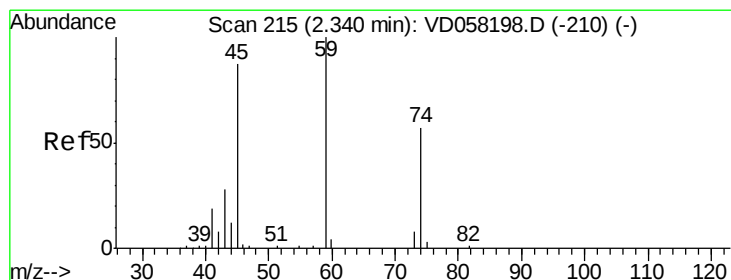
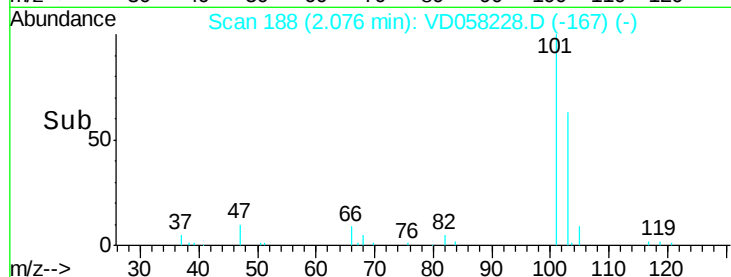
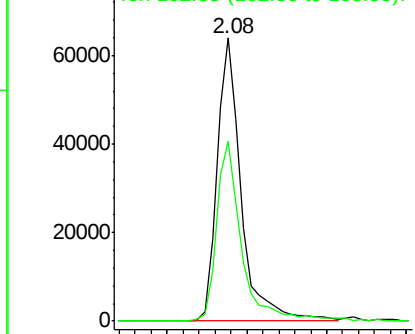
Trichlorofluoromethane
Concen: 21.93 ug/l
RT: 2.08 min Scan# 188
Delta R.T. 0.00 min
Lab File: VD058228.D
Acq: 21 Jun 2018 1:44

Instrument :
MSVOA_D
ClientSampleId :
VD0620SBSD03

Tot Ion:101 Resp: 136002
Ion Ratio Lower Upper
101 100
103 63.3 55.1 82.7



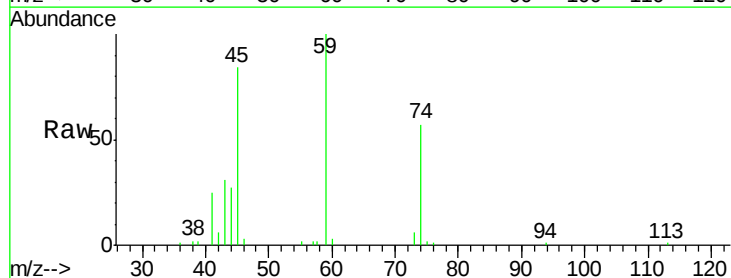
Abundance Ion 100.85 (100.55 to 101.55): V
Ion 102.85 (102.55 to 103.55): V



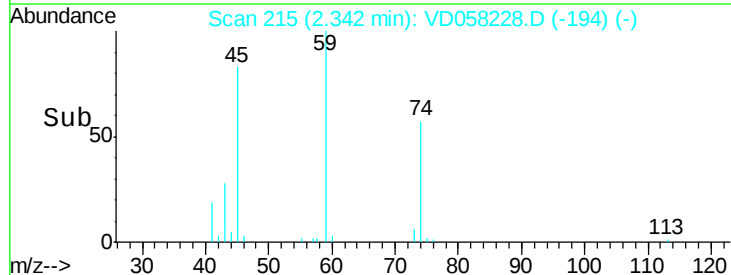
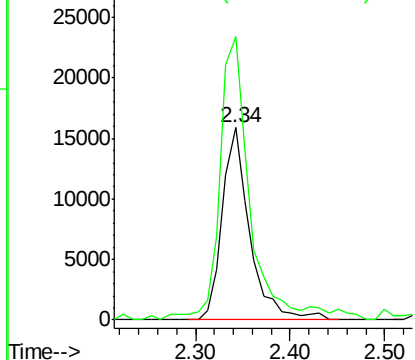
#8

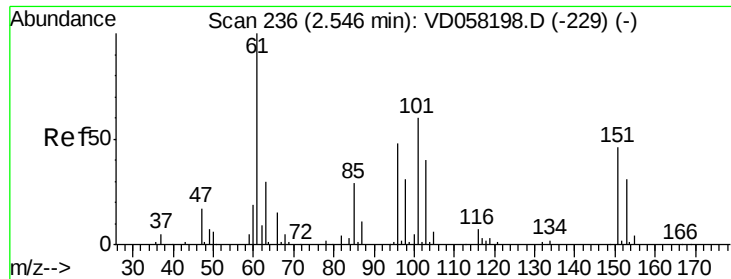
Diethyl Ether
Concen: 24.34 ug/l
RT: 2.34 min Scan# 215
Delta R.T. 0.00 min
Lab File: VD058228.D
Acq: 21 Jun 2018 1:44

Tgt Ion: 74 Resp: 31917
Ion Ratio Lower Upper
74 100
45 147.2 77.5 232.6



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: 22.52 ug/l

RT: 2.55 min Scan# 236

Delta R.T. 0.00 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

Instrument :

MSVOA_D

ClientSampleId :

VD0620SBSD03

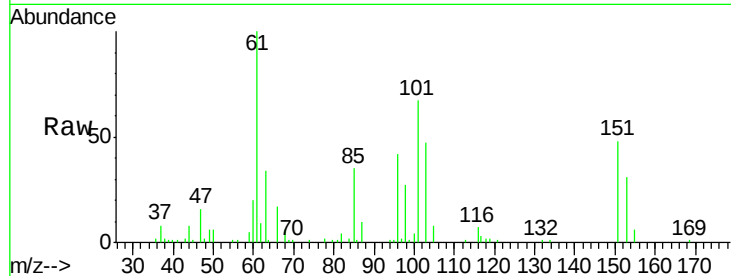
Tot Ion:101 Resp: 88791

Ion Ratio Lower Upper

101 100

85 52.5 39.0 58.4

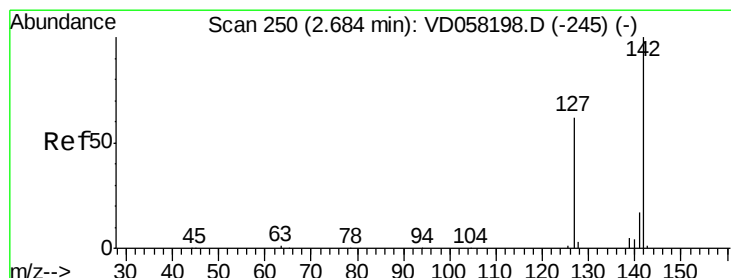
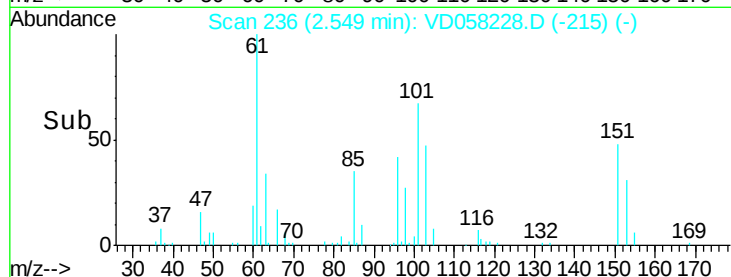
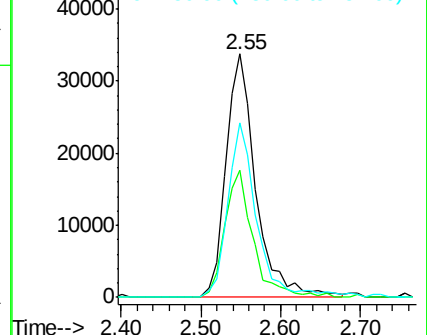
151 71.8 61.8 92.8



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: 20.54 ug/l

RT: 2.69 min Scan# 250

Delta R.T. 0.00 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

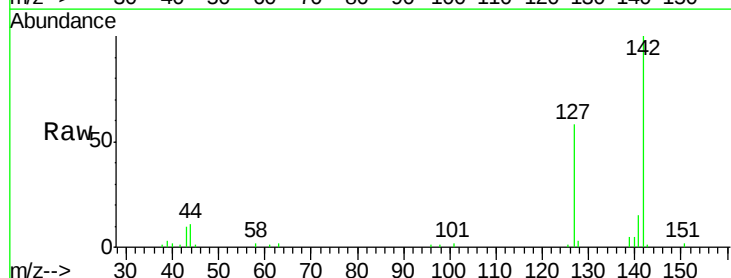
Tgt Ion:142 Resp: 92094

Ion Ratio Lower Upper

142 100

127 58.4 49.4 74.0

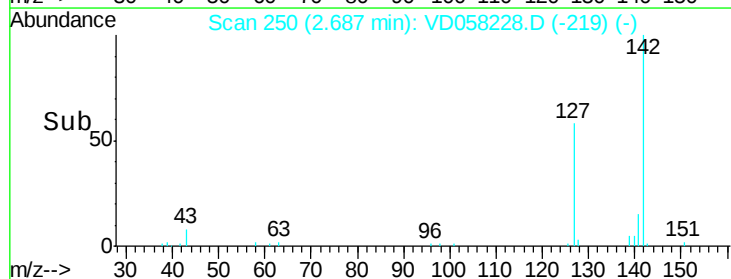
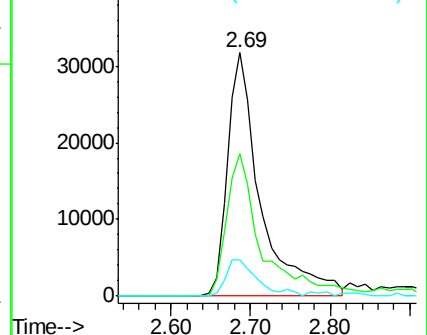
141 14.9 13.5 20.3

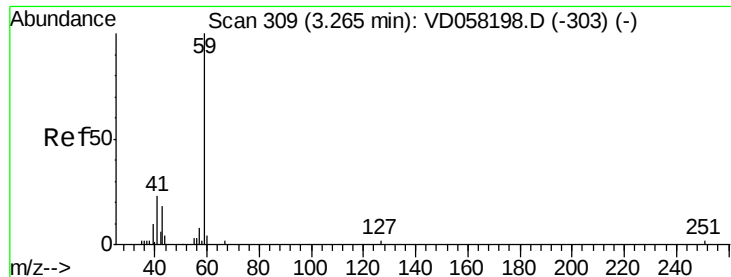


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



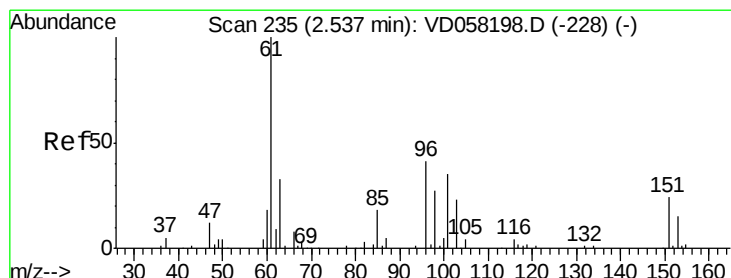
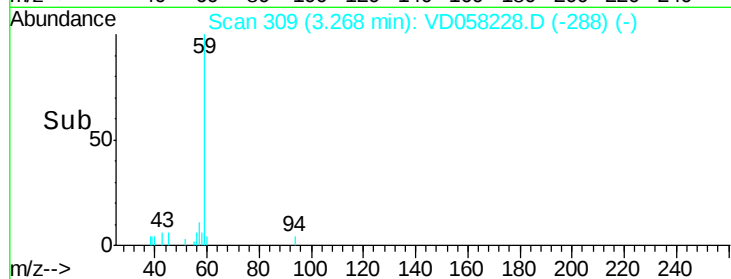
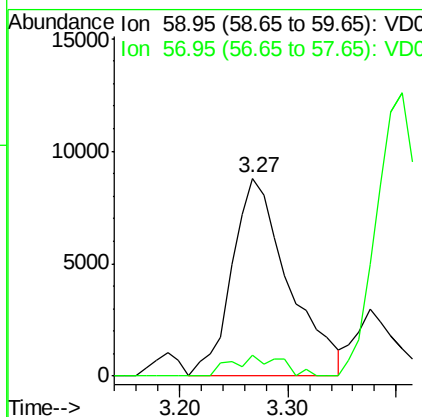
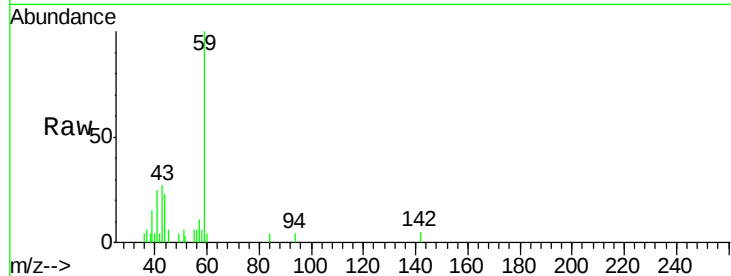


#11

Tert butyl alcohol
 Concen: 110.91 ug/l
 RT: 3.27 min Scan# 309
 Delta R.T. 0.00 min
 Lab File: VD058228.D
 Acq: 21 Jun 2018 1:44

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0620SBSD03

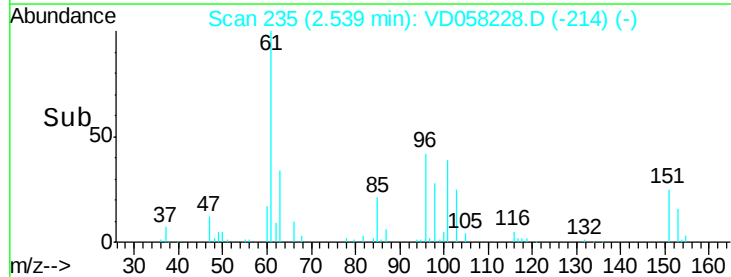
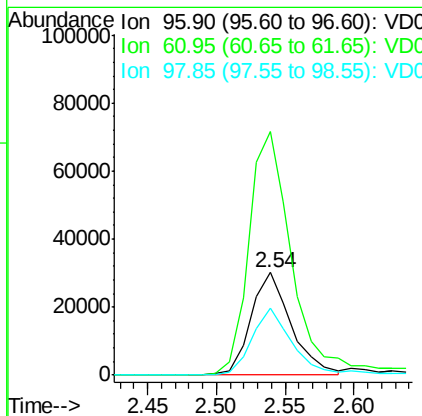
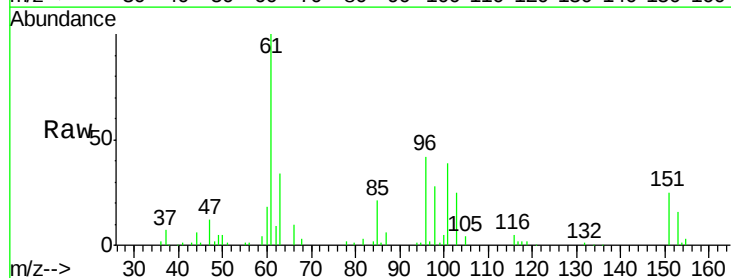
Tot Ion: 59 Resp: 31897
 Ion Ratio Lower Upper
 59 100
 57 10.7 6.2 9.4#

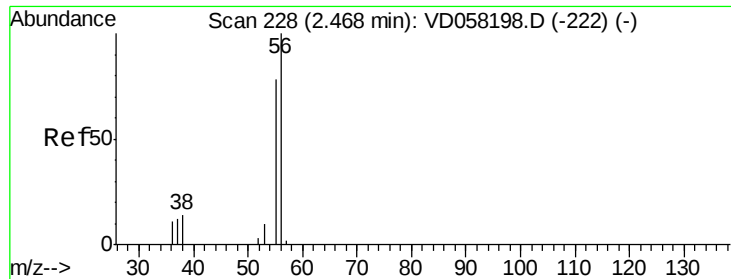


#12

1,1-Dichloroethene
 Concen: 20.64 ug/l
 RT: 2.54 min Scan# 235
 Delta R.T. 0.00 min
 Lab File: VD058228.D
 Acq: 21 Jun 2018 1:44

Tgt Ion: 96 Resp: 61219
 Ion Ratio Lower Upper
 96 100
 61 237.8 193.9 290.9
 98 65.9 51.7 77.5





#13

Acrolein

Concen: 111.26 ug/l

RT: 2.47 min Scan# 228

Delta R.T. 0.00 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

Instrument :

MSVOA_D

ClientSampleId :

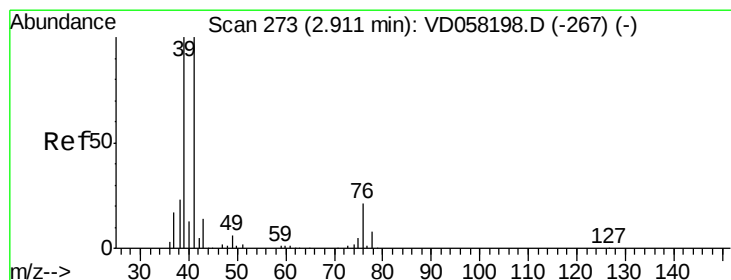
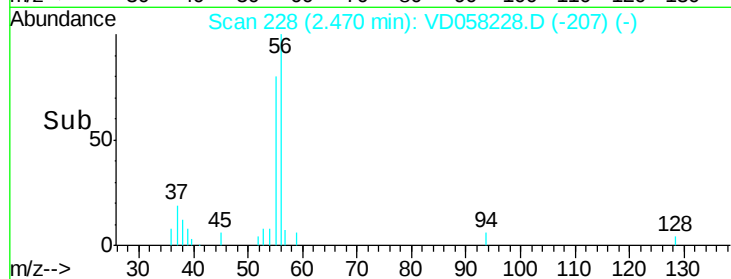
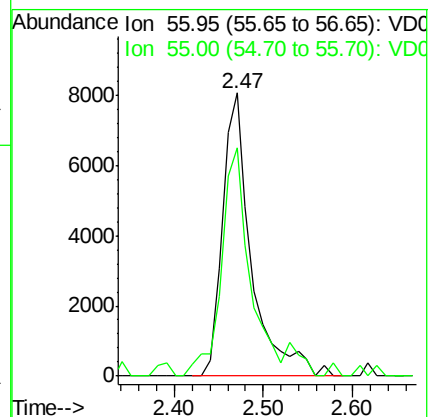
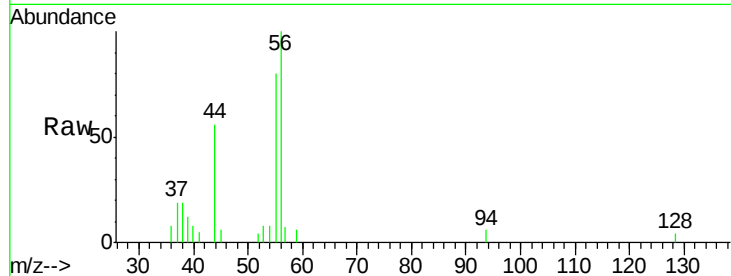
VD0620SBSD03

Tot Ion: 56 Resp: 18267

Ion Ratio Lower Upper

56 100

55 80.5 62.1 93.1



#14

Allyl chloride

Concen: 22.49 ug/l

RT: 2.91 min Scan# 273

Delta R.T. 0.00 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

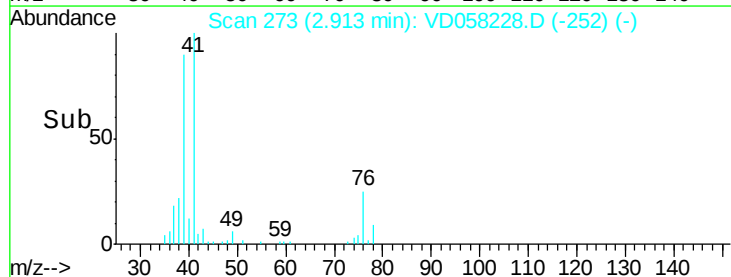
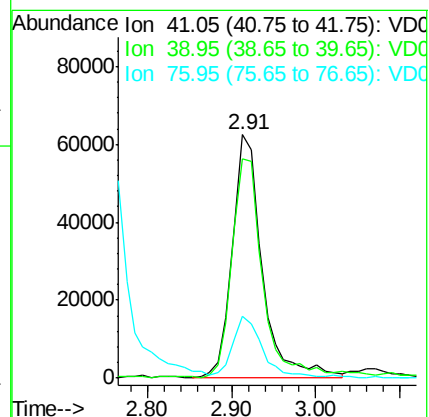
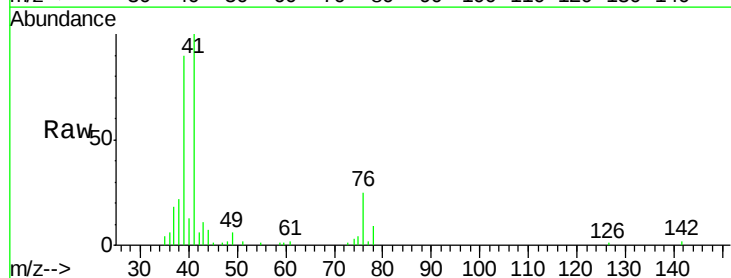
Tgt Ion: 41 Resp: 155269

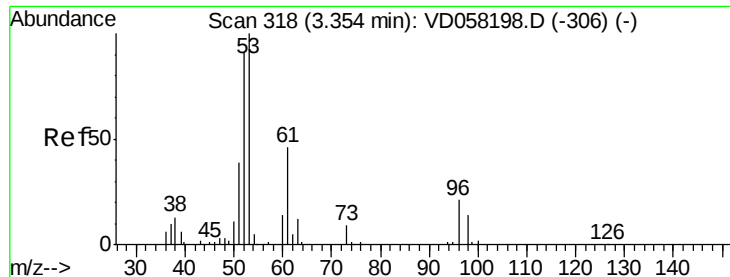
Ion Ratio Lower Upper

41 100

39 89.9 80.1 120.1

76 25.4 19.4 29.2





#15

Acrylonitrile

Concen: 114.56 ug/l

RT: 3.36 min Scan# 318

Delta R.T. 0.00 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

Instrument :

MSVOA_D

ClientSampleId :

VD0620SBSD03

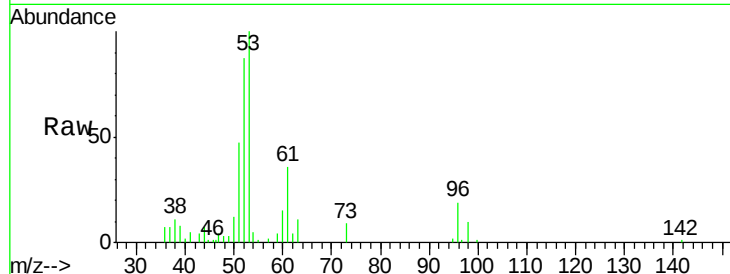
Tot Ion: 53 Resp: 87357

Ion Ratio Lower Upper

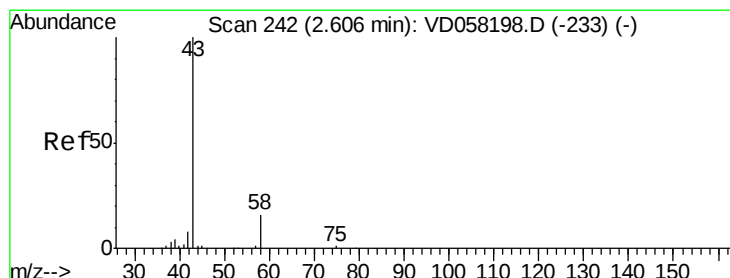
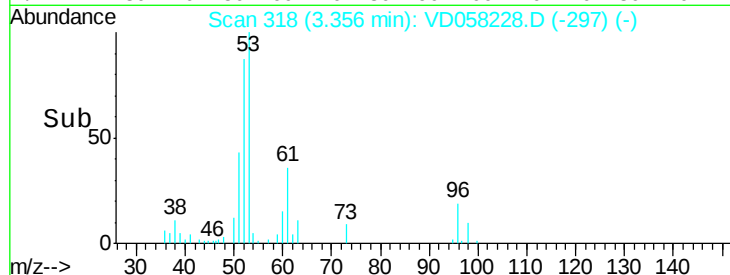
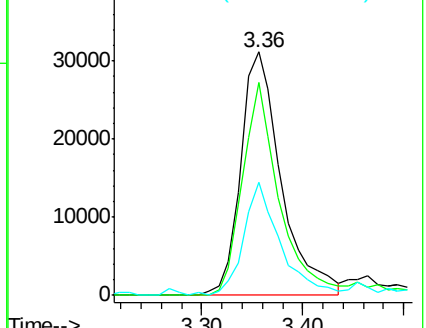
53 100

52 87.3 72.6 108.8

51 46.7 32.2 48.4



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: 105.14 ug/l

RT: 2.61 min Scan# 242

Delta R.T. 0.00 min

Lab File: VD058228.D

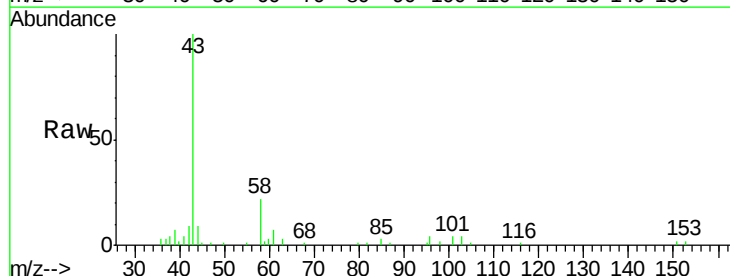
Acq: 21 Jun 2018 1:44

Tgt Ion: 43 Resp: 125383

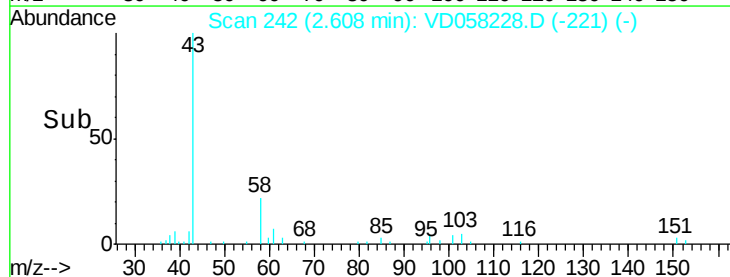
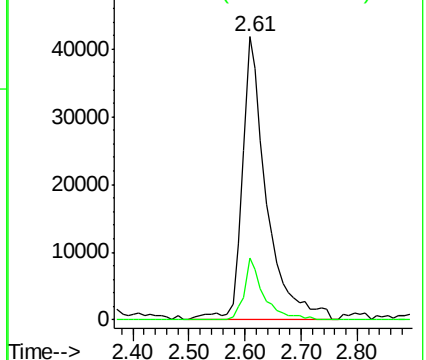
Ion Ratio Lower Upper

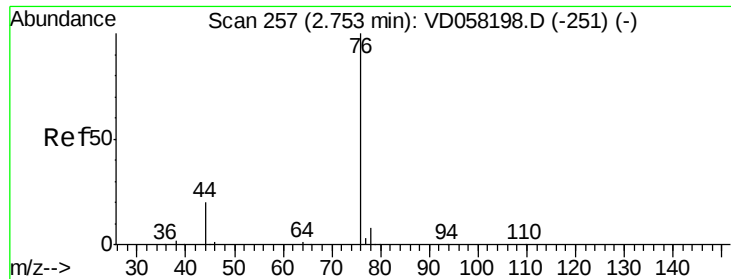
43 100

58 21.9 12.7 19.1#



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

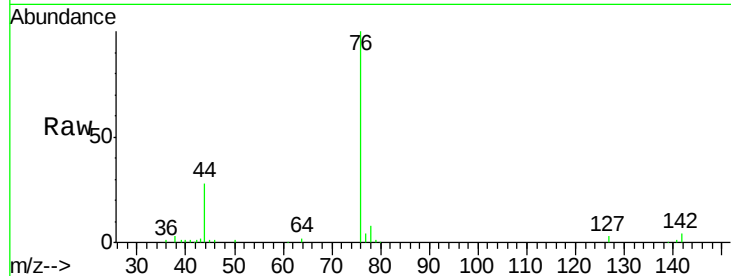




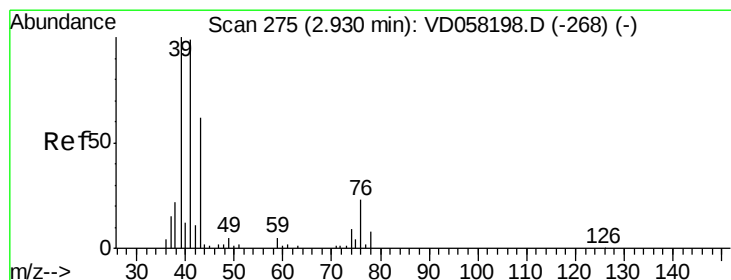
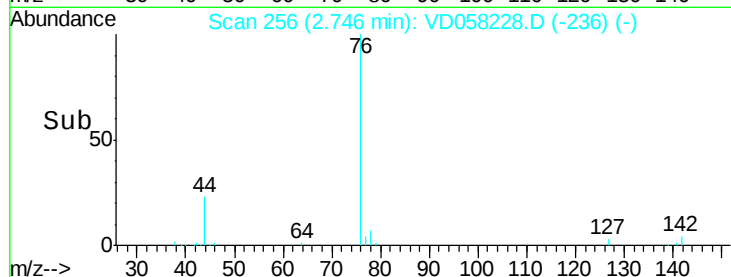
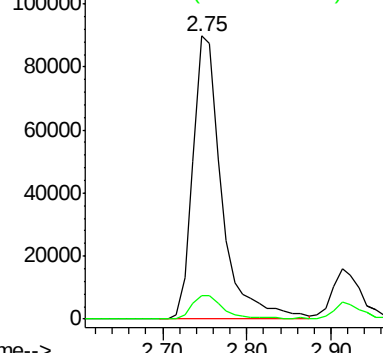
#17
Carbon Disulfide
Concen: 21.24 ug/l
RT: 2.75 min Scan# 256
Delta R.T. -0.01 min
Lab File: VD058228.D
Acq: 21 Jun 2018 1:44

Instrument :
MSVOA_D
ClientSampleId :
VD0620SBSD03

Tot Ion: 76 Resp: 214296
Ion Ratio Lower Upper
76 100
78 8.4 6.8 10.2

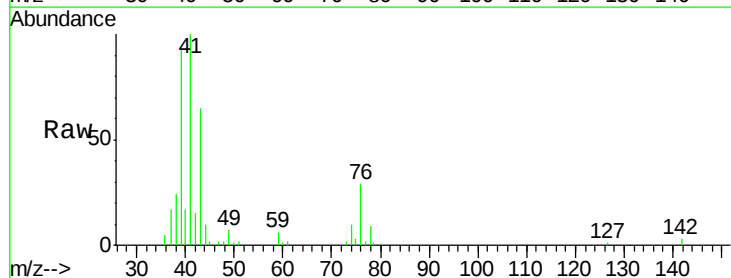


Abundance Ion 75.85 (75.55 to 76.55): VDC
Ion 77.85 (77.55 to 78.55): VDC

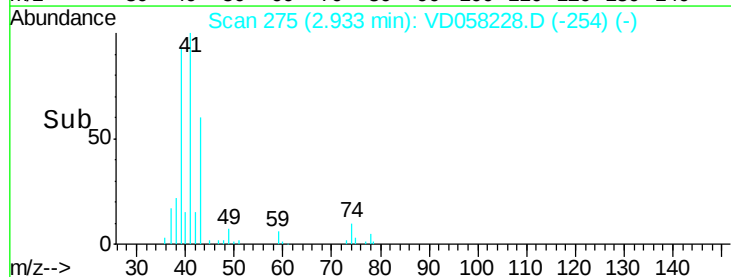
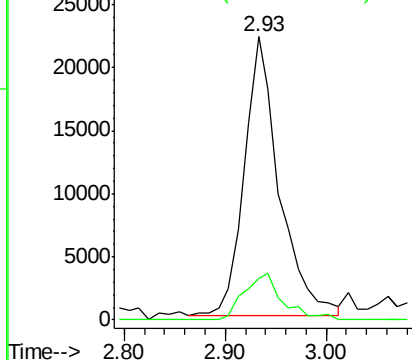


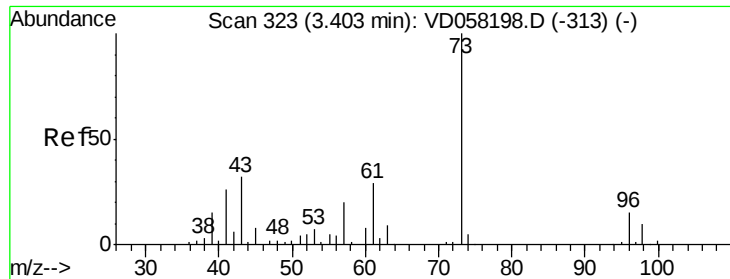
#18
Methyl Acetate
Concen: 21.17 ug/l
RT: 2.93 min Scan# 275
Delta R.T. 0.00 min
Lab File: VD058228.D
Acq: 21 Jun 2018 1:44

Tgt Ion: 43 Resp: 53845
Ion Ratio Lower Upper
43 100
74 14.8 11.7 17.5



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 74.00 (73.70 to 74.70): VDC

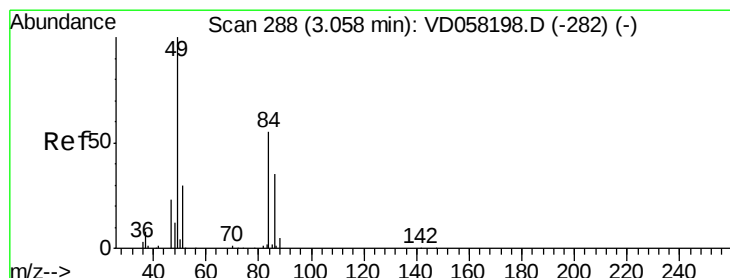
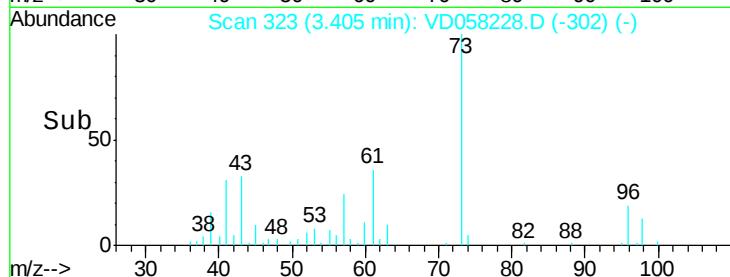
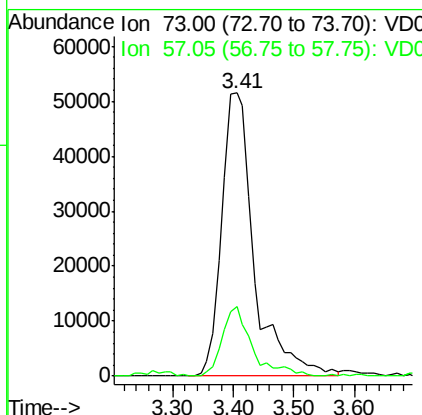
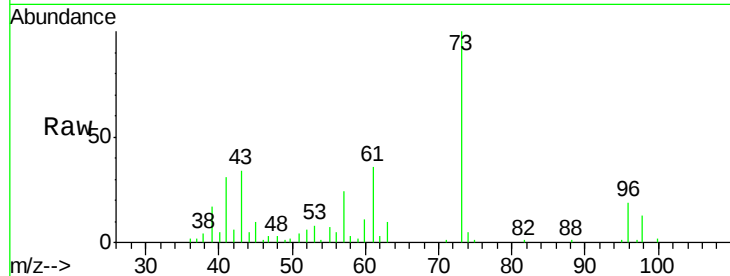




#19
Methyl tert-butyl Ether
Concen: 24.45 ug/l
RT: 3.41 min Scan# 323
Delta R.T. 0.00 min
Lab File: VD058228.D
Acq: 21 Jun 2018 1:44

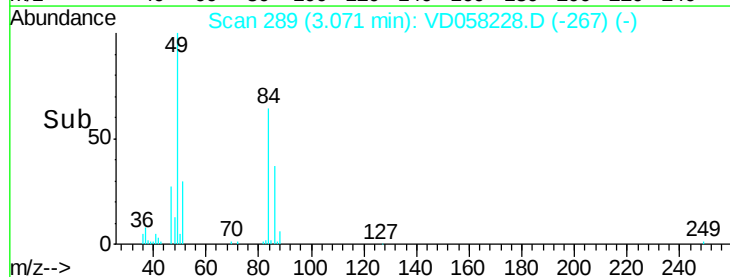
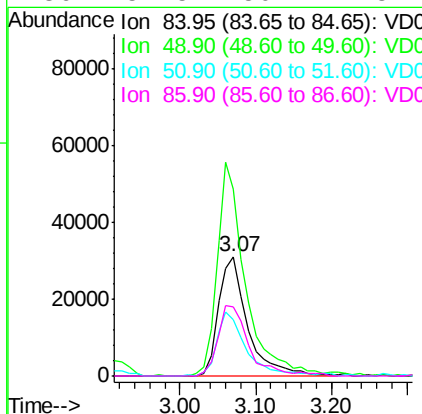
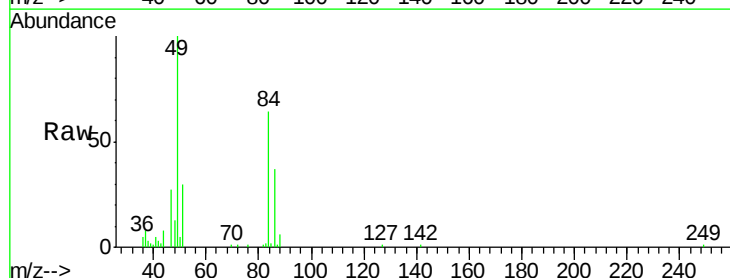
Instrument :
MSVOA_D
ClientSampleId :
VD0620SBSD03

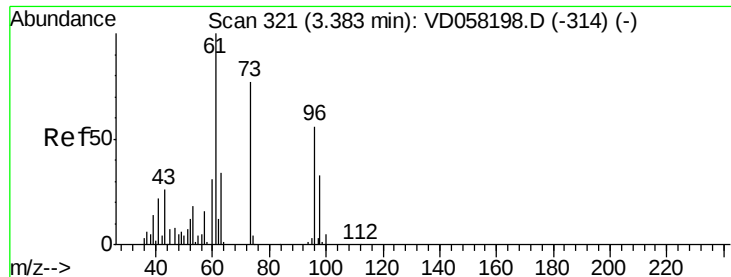
Tot Ion: 73 Resp: 192358
Ion Ratio Lower Upper
73 100
57 24.4 16.6 24.8



#20
Methylene Chloride
Concen: 24.39 ug/l
RT: 3.07 min Scan# 289
Delta R.T. 0.01 min
Lab File: VD058228.D
Acq: 21 Jun 2018 1:44

Tgt Ion: 84 Resp: 83524
Ion Ratio Lower Upper
84 100
49 156.1 145.0 217.6
51 47.0 42.9 64.3
86 57.5 50.1 75.1





#21

trans-1,2-Dichloroethene

Concen: 21.26 ug/l

RT: 3.39 min Scan# 321

Delta R.T. 0.00 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

Instrument :

MSVOA_D

ClientSampleId :

VD0620SBSD03

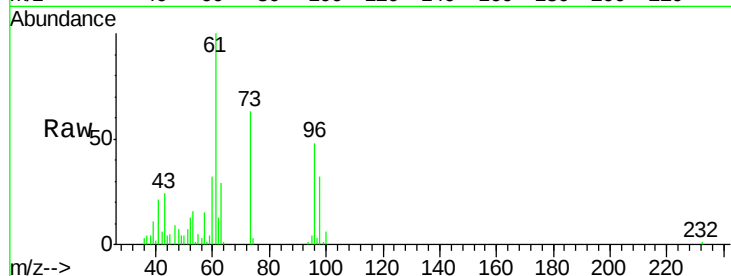
Tot Ion: 96 Resp: 68910

Ion Ratio Lower Upper

96 100

61 208.1 143.8 215.6

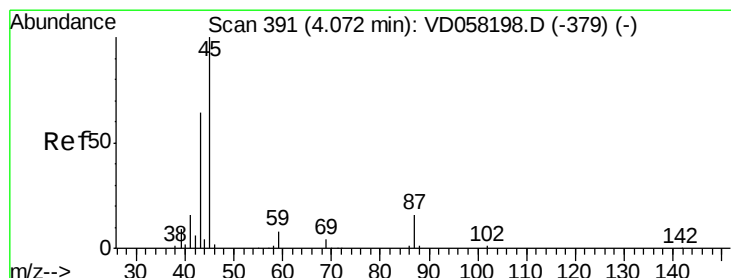
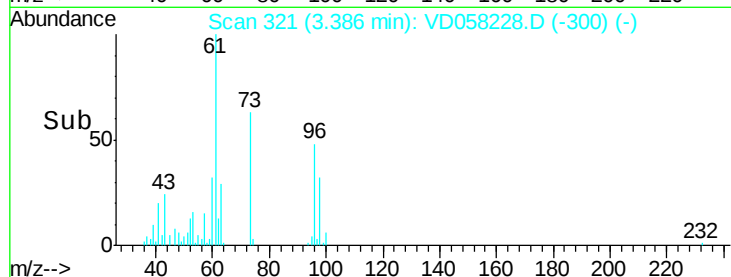
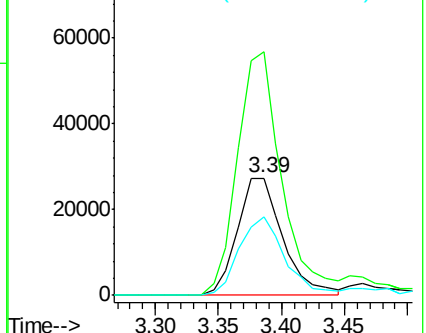
98 67.6 48.0 72.0



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 22.04 ug/l

RT: 4.07 min Scan# 391

Delta R.T. 0.00 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

Tgt Ion: 45 Resp: 604283

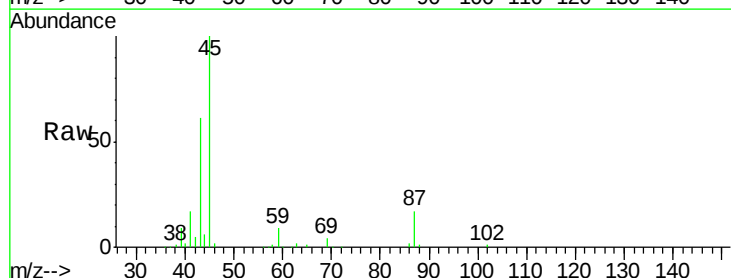
Ion Ratio Lower Upper

45 100

43 60.7 51.4 77.0

87 16.5 13.0 19.4

59 8.7 6.9 10.3

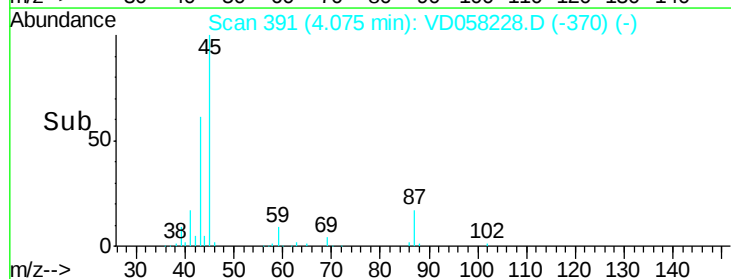
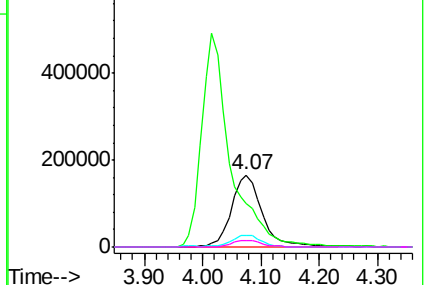


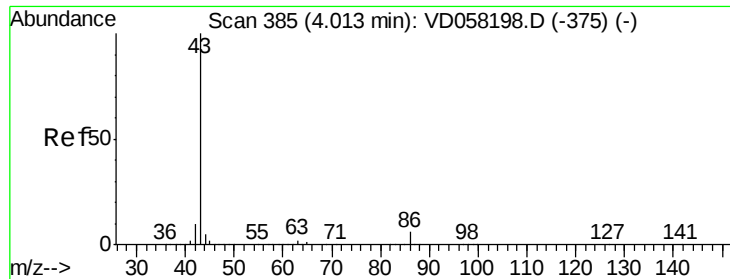
Abundance Ion 45.05 (44.75 to 45.75): VDC

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: 114.97 ug/l

RT: 4.02 min Scan# 385

Delta R.T. 0.00 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

Instrument :

MSVOA_D

ClientSampleID :

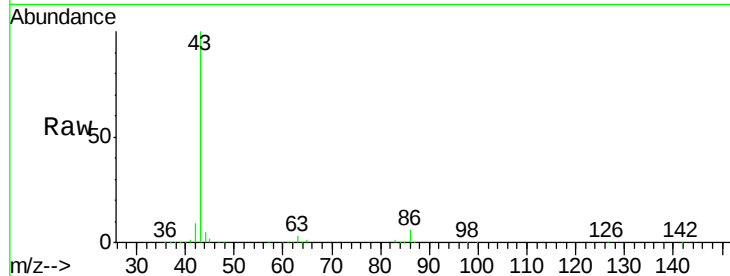
VD0620SBSD03

Tot Ion: 43 Resp: 1689758

Ion Ratio Lower Upper

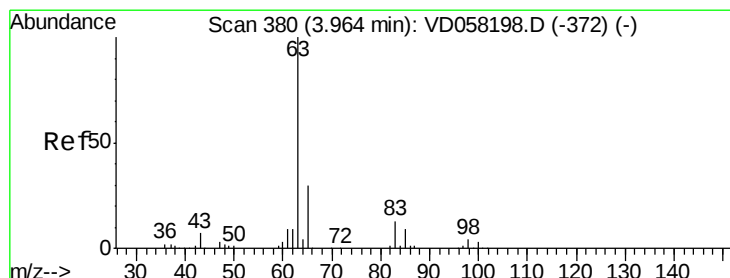
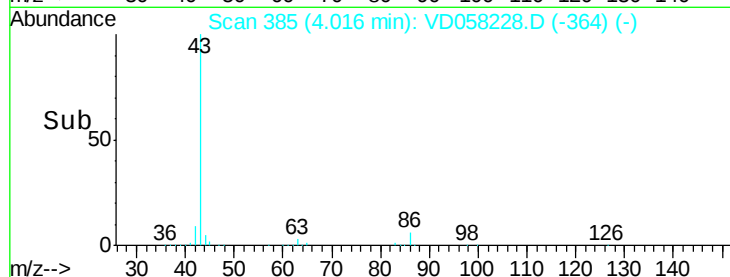
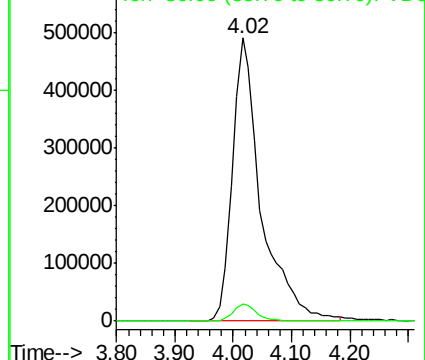
43 100

86 6.2 5.0 7.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 23.07 ug/l

RT: 3.98 min Scan# 381

Delta R.T. 0.01 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

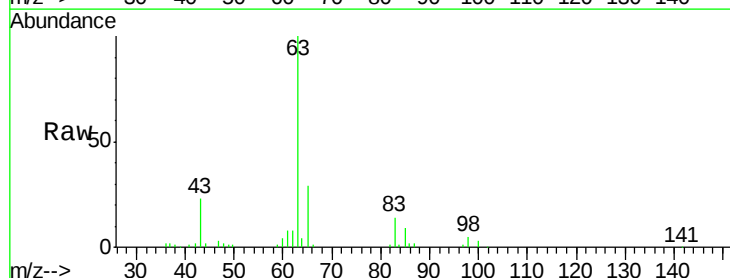
Tgt Ion: 63 Resp: 340758

Ion Ratio Lower Upper

63 100

98 5.0 1.9 5.7

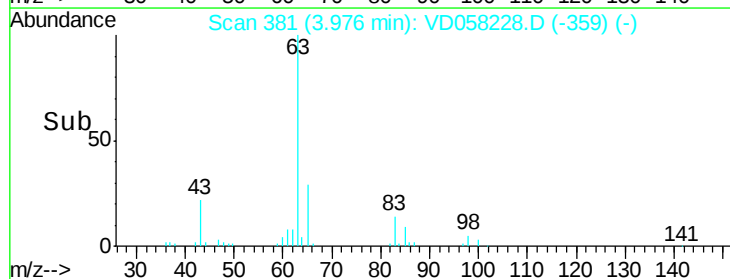
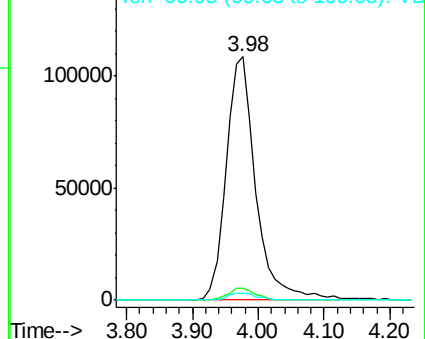
100 3.0 1.3 3.9

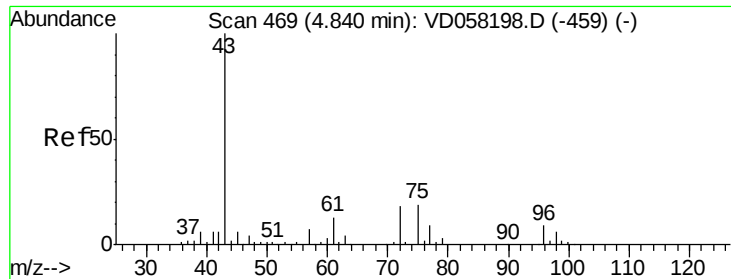


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 106.90 ug/l

RT: 4.84 min Scan# 469

Delta R.T. 0.00 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

Instrument :

MSVOA_D

ClientSampleId :

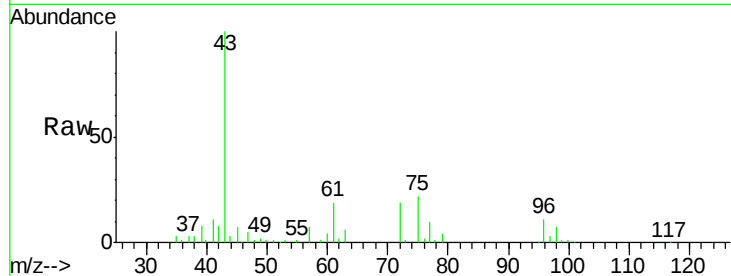
VD0620SBSD03

Tot Ion: 43 Resp: 277832

Ion Ratio Lower Upper

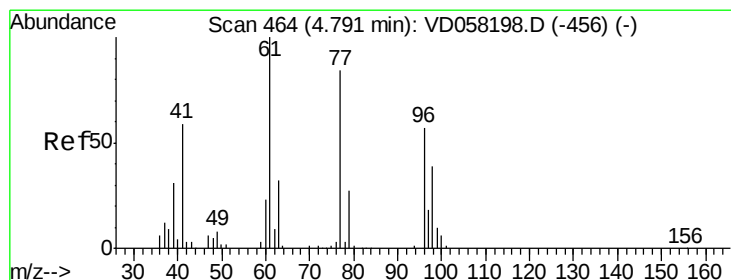
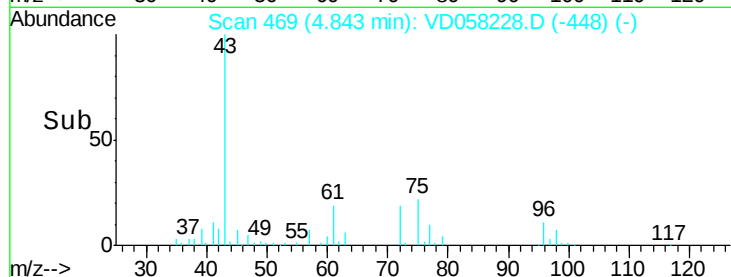
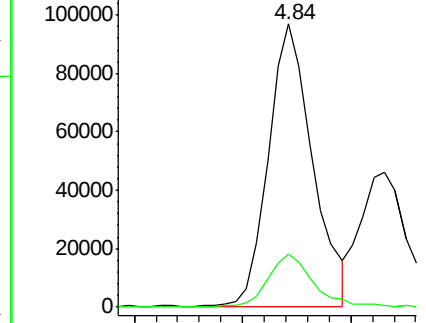
43 100

72 18.7 14.1 21.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 19.41 ug/l

RT: 4.79 min Scan# 464

Delta R.T. 0.00 min

Lab File: VD058228.D

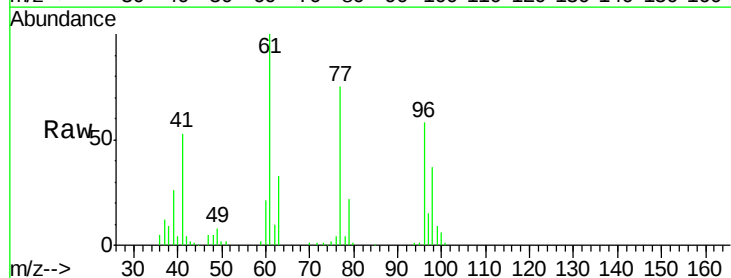
Acq: 21 Jun 2018 1:44

Tgt Ion: 77 Resp: 240046

Ion Ratio Lower Upper

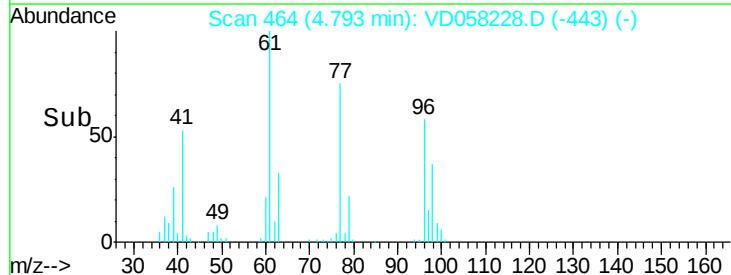
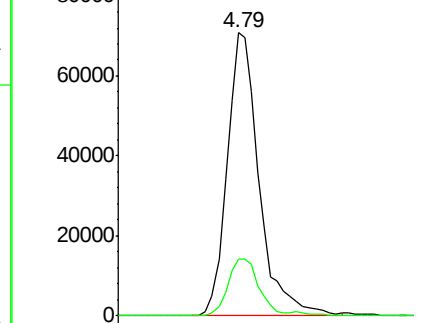
77 100

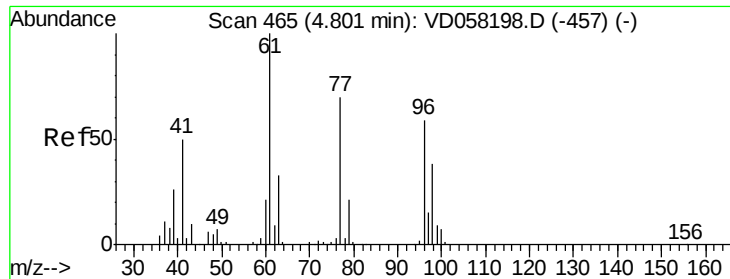
97 20.1 10.5 31.6



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: 23.75 ug/l

RT: 4.80 min Scan# 465

Delta R.T. 0.00 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

Instrument :

MSVOA_D

ClientSampleId :

VD0620SBSD03

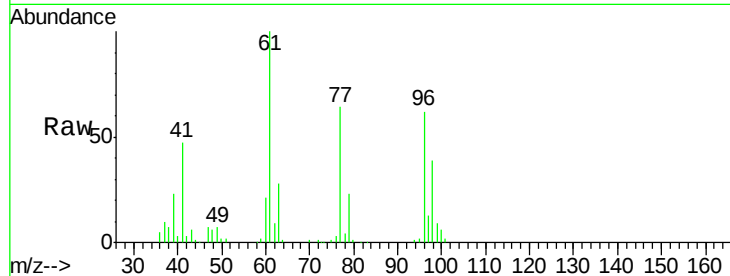
Tot Ion: 96 Resp: 192365

Ion Ratio Lower Upper

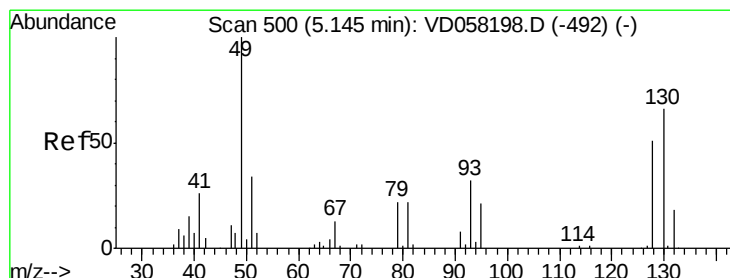
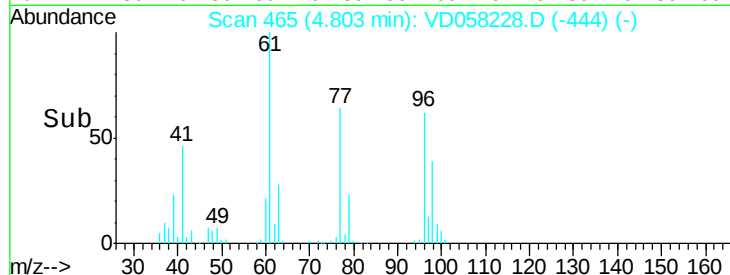
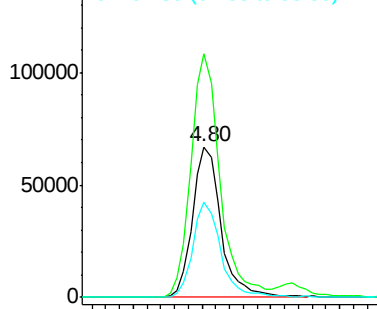
96 100

61 161.7 0.0 338.6

98 63.4 0.0 130.2



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



#28

Bromochloromethane

Concen: 22.77 ug/l

RT: 5.15 min Scan# 500

Delta R.T. 0.00 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

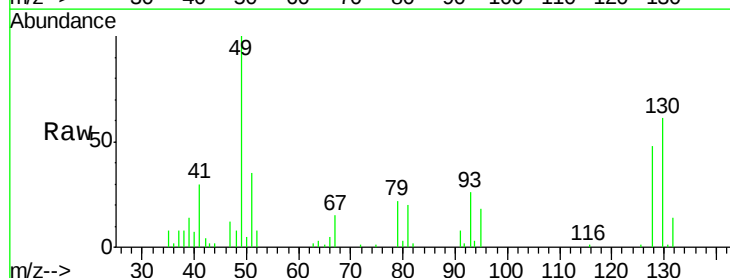
Tgt Ion: 49 Resp: 150788

Ion Ratio Lower Upper

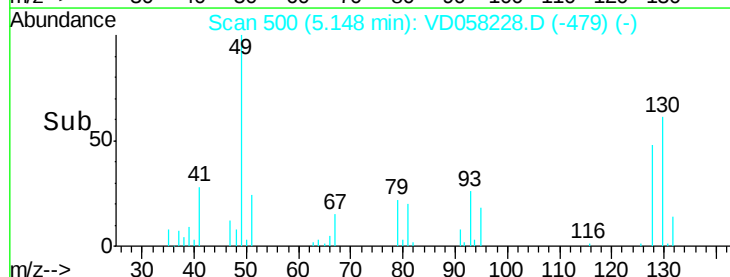
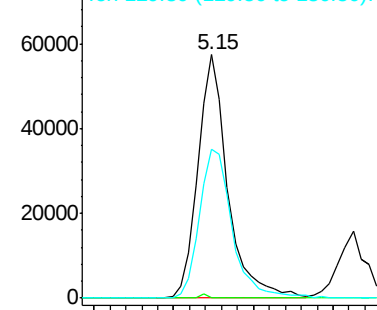
49 100

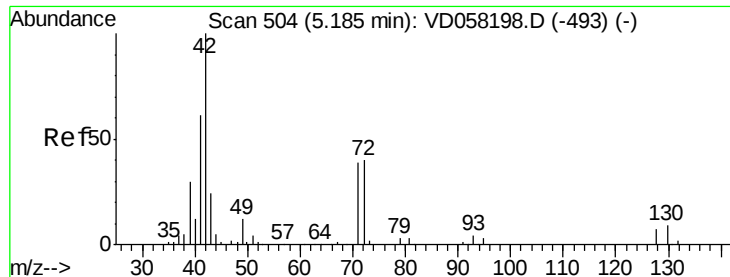
129 0.0 0.0 0.0

130 61.1 52.6 79.0



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

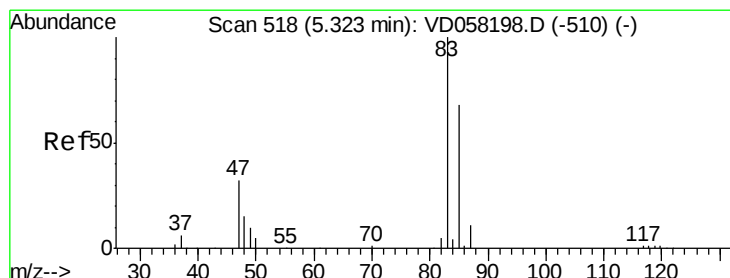
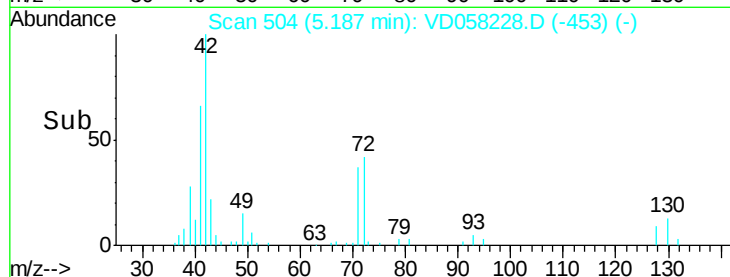
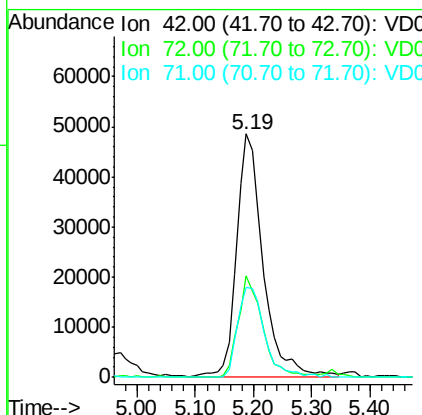
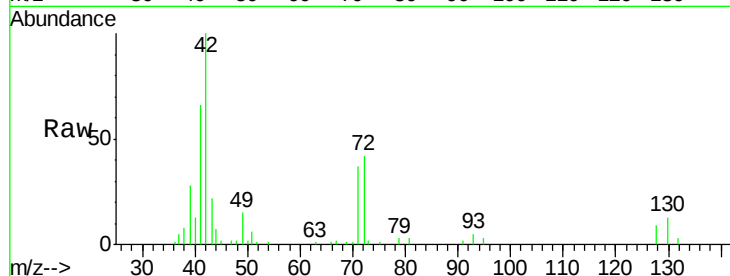




#29
Tetrahydrofuran
Concen: 111.79 ug/l
RT: 5.19 min Scan# 504
Delta R.T. 0.00 min
Lab File: VD058228.D
Acq: 21 Jun 2018 1:44

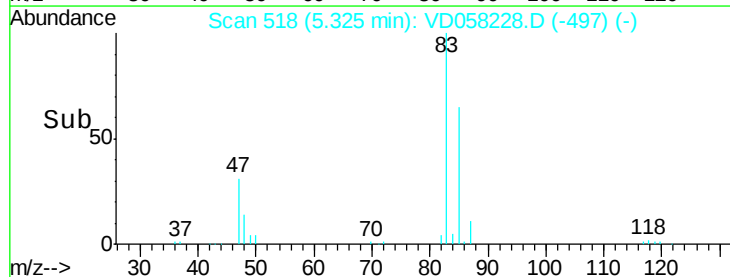
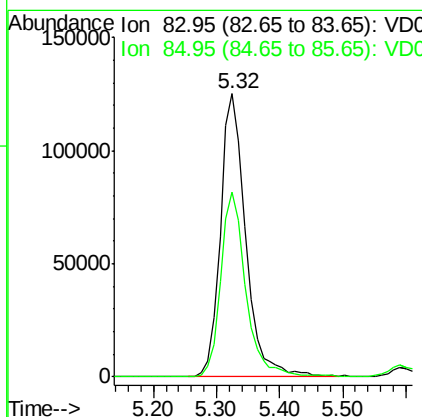
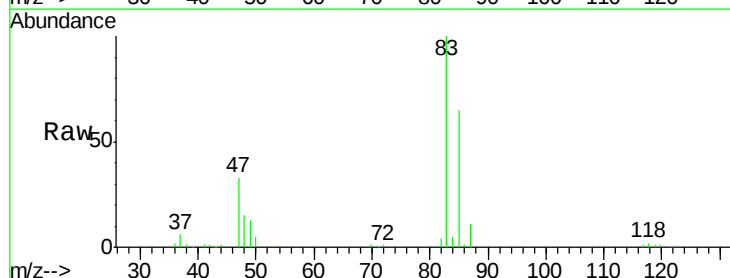
Instrument :
MSVOA_D
ClientSampleId :
VD0620SBS03

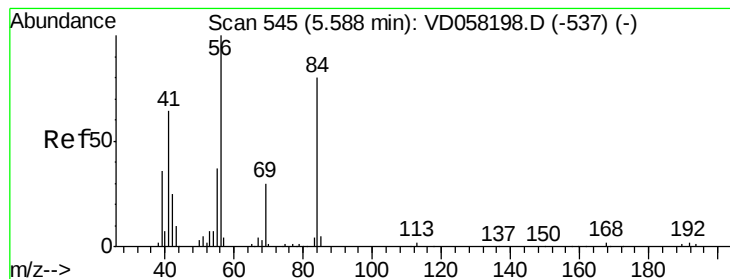
Tot Ion: 42 Resp: 154650
Ion Ratio Lower Upper
42 100
72 37.7 30.2 45.2
71 37.7 30.1 45.1



#30
Chloroform
Concen: 22.38 ug/l
RT: 5.32 min Scan# 518
Delta R.T. 0.00 min
Lab File: VD058228.D
Acq: 21 Jun 2018 1:44

Tgt Ion: 83 Resp: 348995
Ion Ratio Lower Upper
83 100
85 65.3 54.8 82.2





#31

Cyclohexane

Concen: 22.87 ug/l

RT: 5.59 min Scan# 545

Delta R.T. 0.00 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

Instrument :

MSVOA_D

ClientSampleId :

VD0620SBSD03

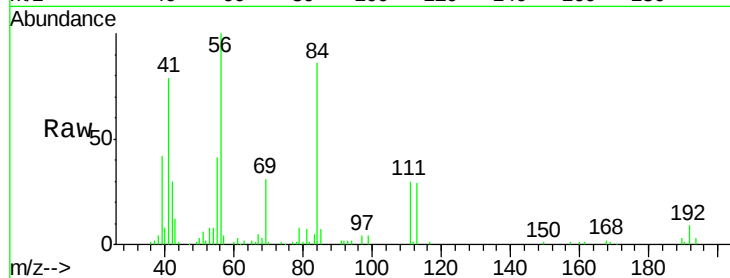
Tot Ion: 56 Resp: 275679

Ion Ratio Lower Upper

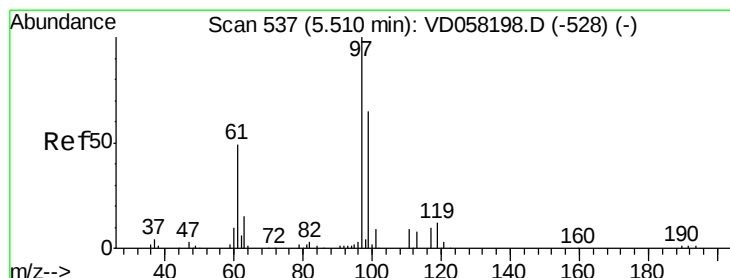
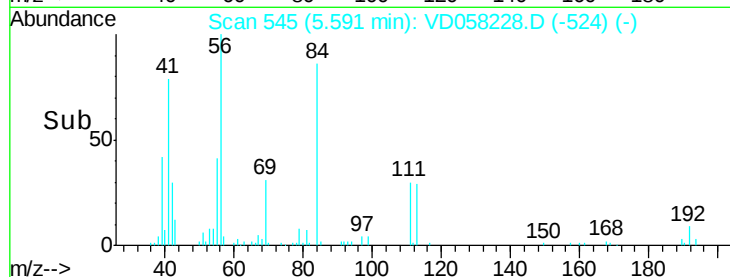
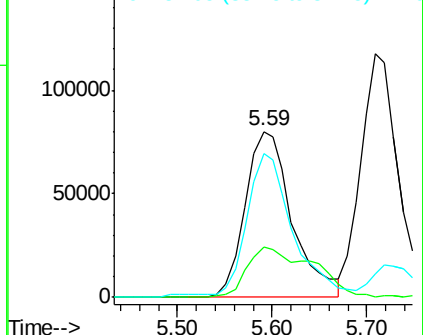
56 100

69 30.5 23.6 35.4

84 86.4 65.2 97.8



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: 21.35 ug/l

RT: 5.51 min Scan# 537

Delta R.T. 0.00 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

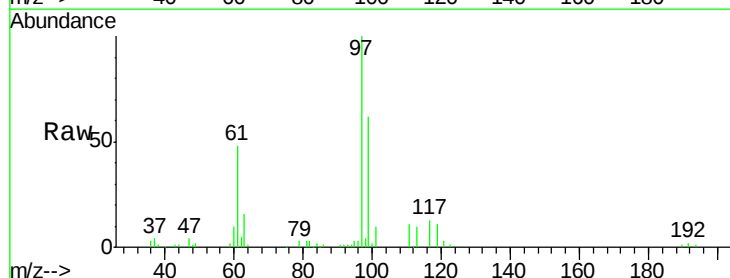
Tgt Ion: 97 Resp: 275037

Ion Ratio Lower Upper

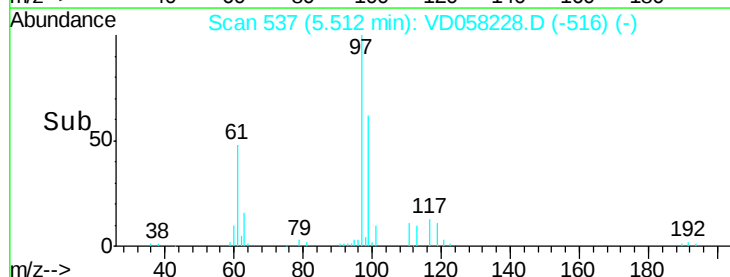
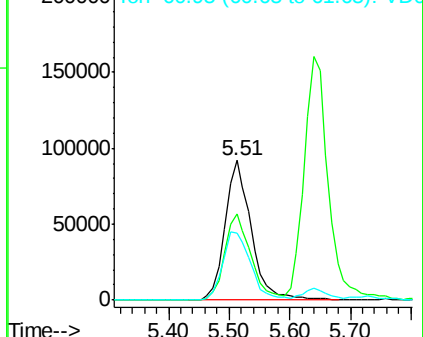
97 100

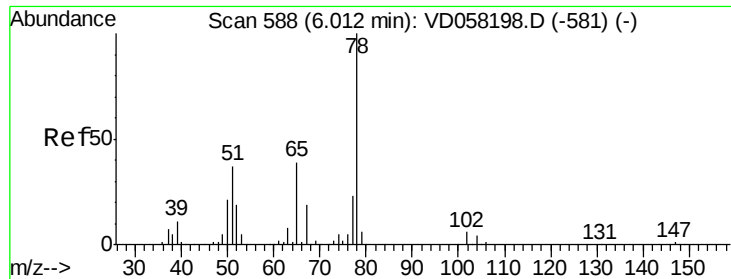
99 61.8 52.2 78.4

61 48.1 39.0 58.4



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: 21.35 ug/l

RT: 6.02 min Scan# 589

Delta R.T. 0.01 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

Instrument :

MSVOA_D

ClientSampleId :

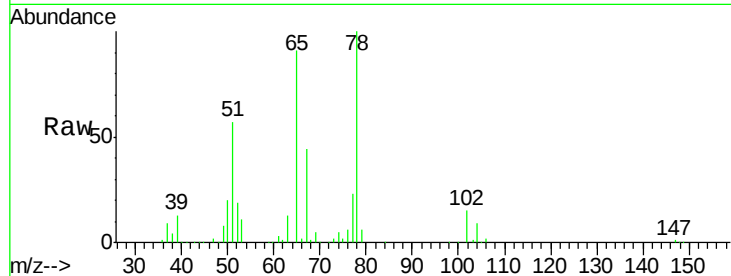
VD0620SBSD03

Tot Ion: 65 Resp: 455120

Ion Ratio Lower Upper

65 100

67 48.5 0.0 97.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

200000

150000

100000

50000

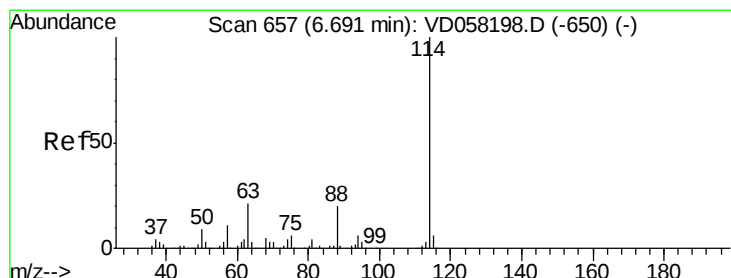
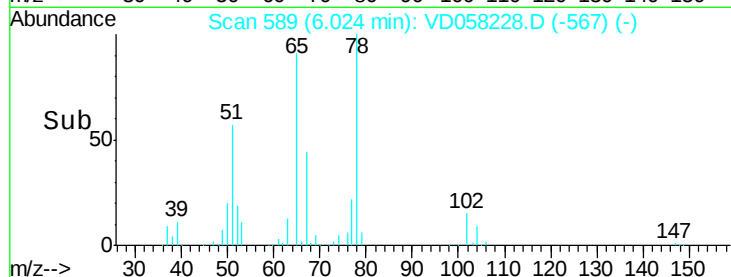
0

Time-->

5.90

6.00

6.10



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.69 min Scan# 657

Delta R.T. 0.00 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

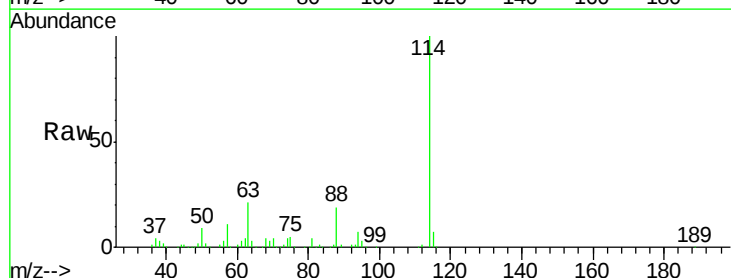
Tgt Ion: 114 Resp: 1096644

Ion Ratio Lower Upper

114 100

63 21.3 0.0 42.6

88 19.4 0.0 40.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

600000

500000

400000

300000

200000

100000

0

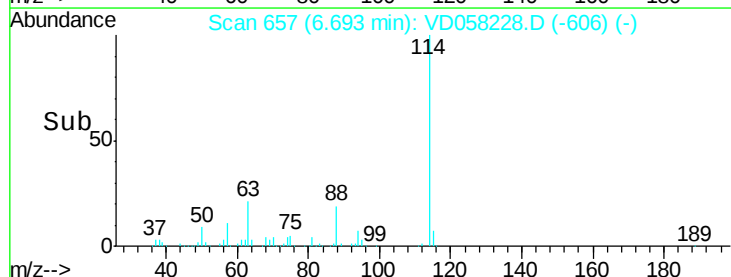
Time-->

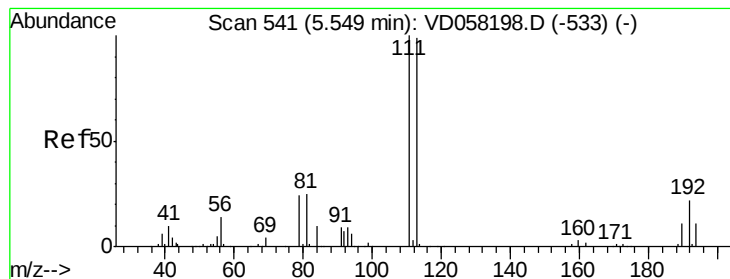
6.60

6.70

6.80

6.90





#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 5.55 min Scan# 541

Delta R.T. 0.00 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

Instrument :

MSVOA_D

ClientSampleId :

VD0620SBSD03

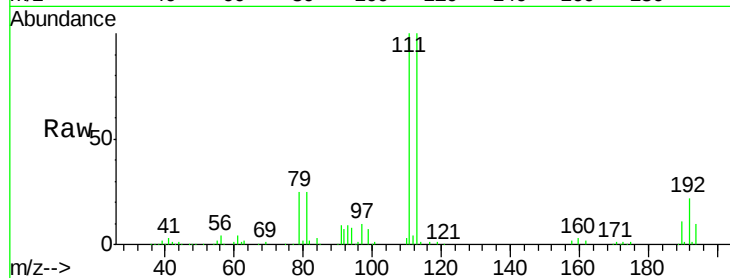
Tot Ion:113 Resp: 474587

Ion Ratio Lower Upper

113 100

111 100.3 80.6 121.0

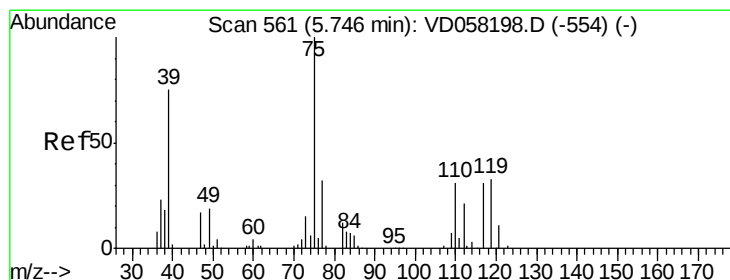
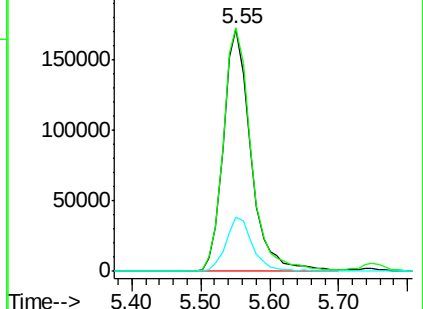
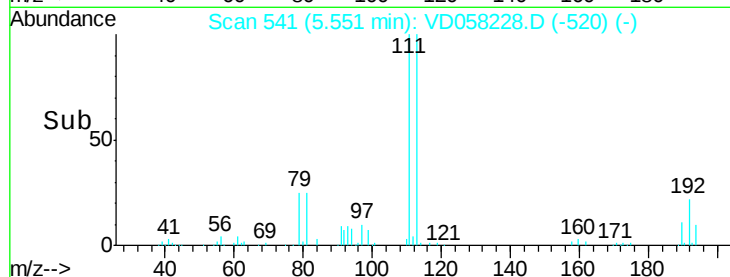
192 22.3 17.8 26.6



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: 22.23 ug/l

RT: 5.75 min Scan# 561

Delta R.T. 0.00 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

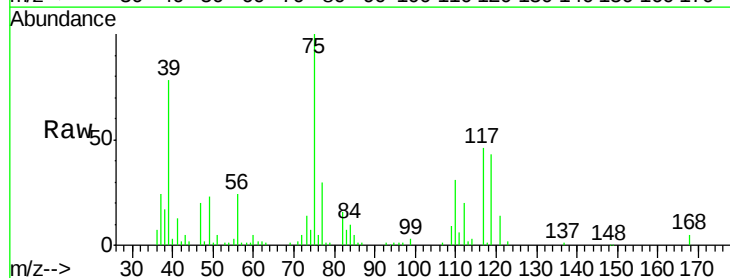
Tgt Ion: 75 Resp: 241132

Ion Ratio Lower Upper

75 100

110 30.6 15.4 46.4

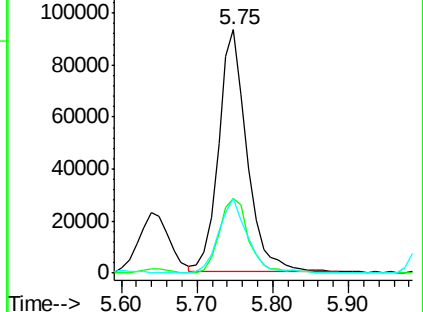
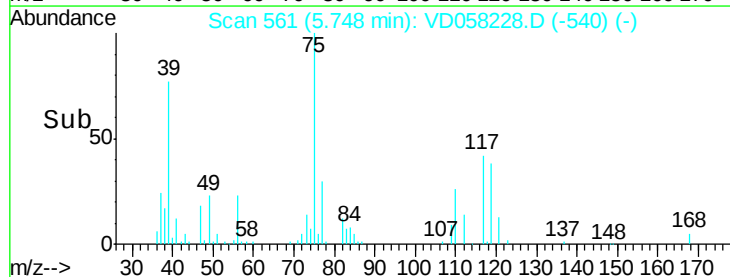
77 30.5 25.4 38.2

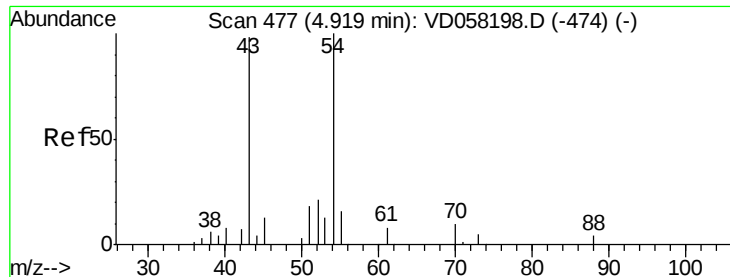


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC

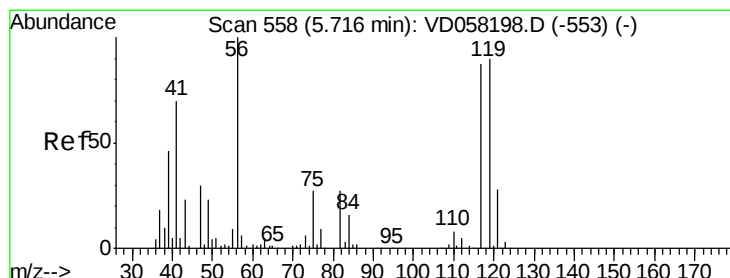
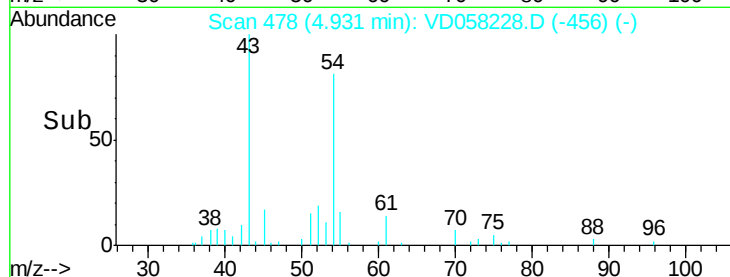
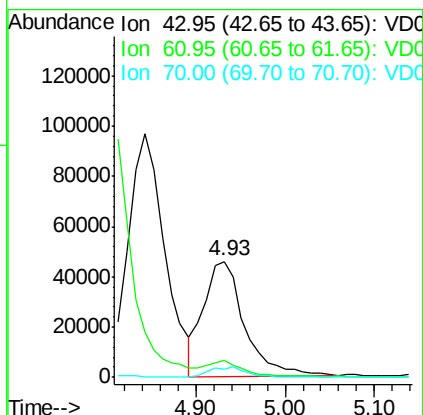
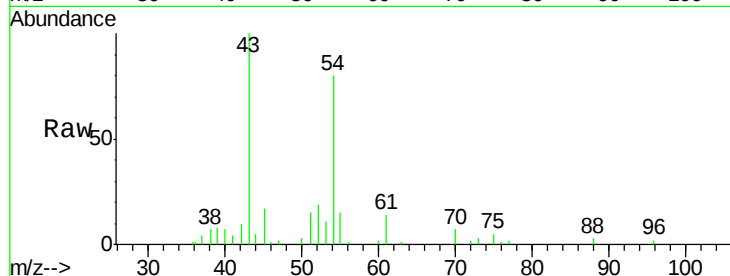




#37
Ethyl Acetate
Concen: 23.51 ug/l
RT: 4.93 min Scan# 478
Delta R.T. 0.01 min
Lab File: VD058228.D
Acq: 21 Jun 2018 1:44

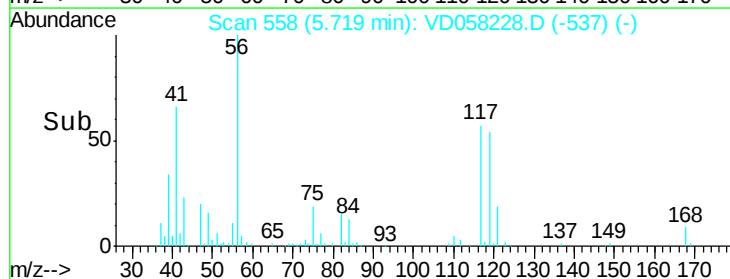
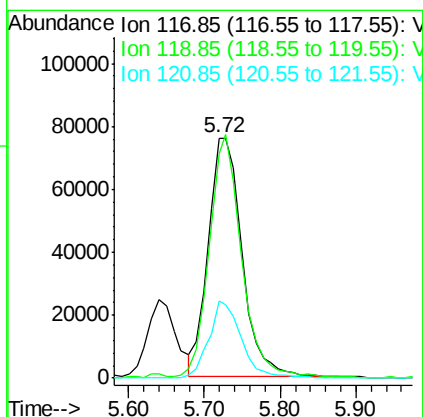
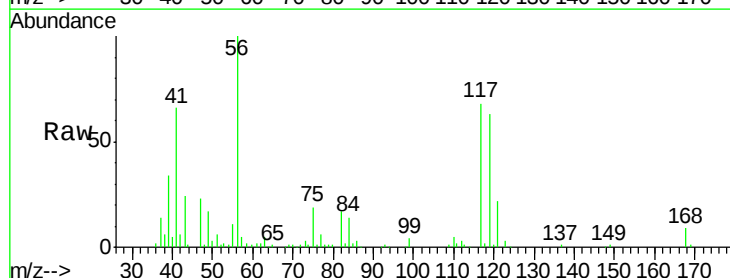
Instrument :
MSVOA_D
ClientSampleId :
VD0620SBS03

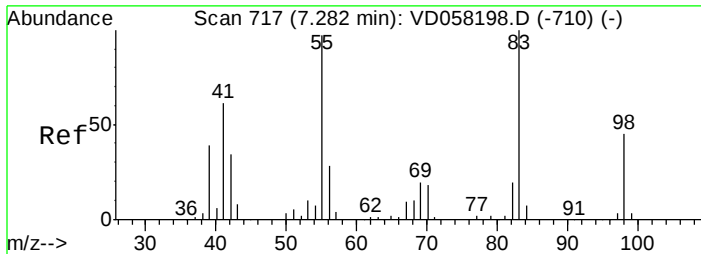
Tot Ion: 43 Resp: 145296
Ion Ratio Lower Upper
43 100
61 14.2 10.3 15.5
70 6.8 5.7 8.5



#38
Carbon Tetrachloride
Concen: 21.97 ug/l
RT: 5.72 min Scan# 558
Delta R.T. 0.00 min
Lab File: VD058228.D
Acq: 21 Jun 2018 1:44

Tgt Ion: 117 Resp: 236817
Ion Ratio Lower Upper
117 100
119 93.4 78.8 118.2
121 32.1 25.0 37.6

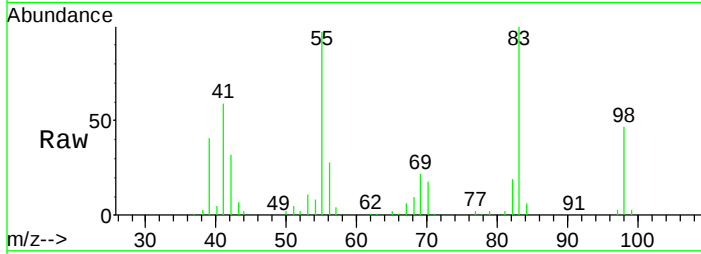




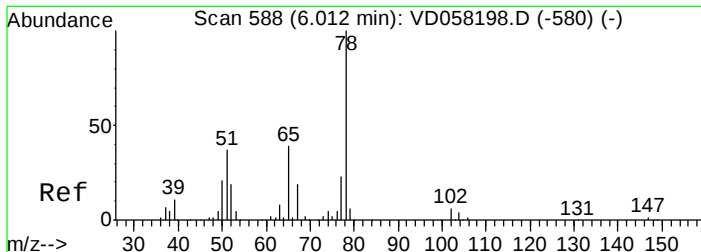
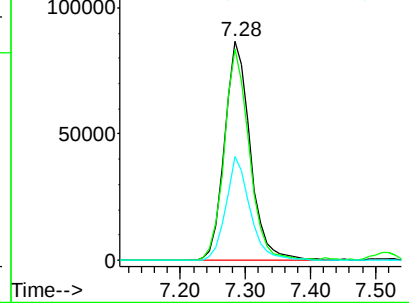
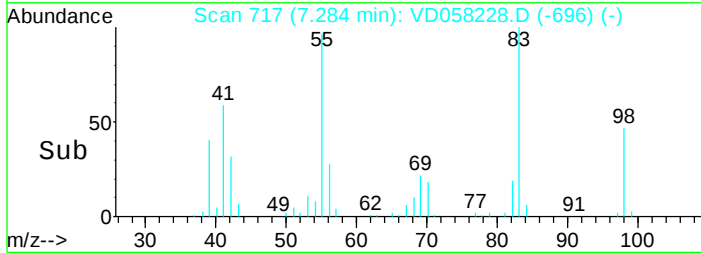
#39
Methylcyclohexane
Concen: 22.39 ug/l
RT: 7.28 min Scan# 717
Delta R.T. 0.00 min
Lab File: VD058228.D
Acq: 21 Jun 2018 1:44

Instrument :
MSVOA_D
ClientSampleId :
VD0620SBSD03

Tot Ion: 83 Resp: 236558
Ion Ratio Lower Upper
83 100
55 96.6 77.4 116.2
98 47.1 35.9 53.9

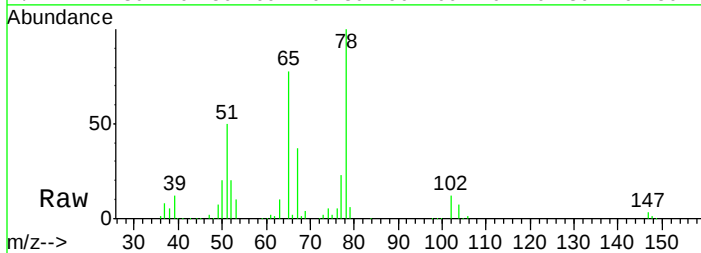


Abundance Ion 83.05 (82.75 to 83.75): VD
Ion 55.00 (54.70 to 55.70): VD
Ion 98.05 (97.75 to 98.75): VD

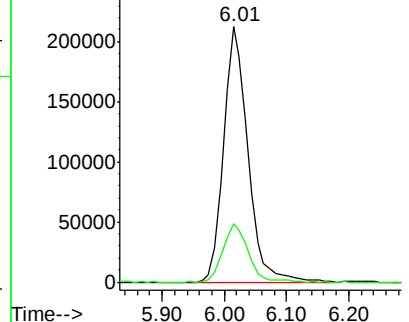
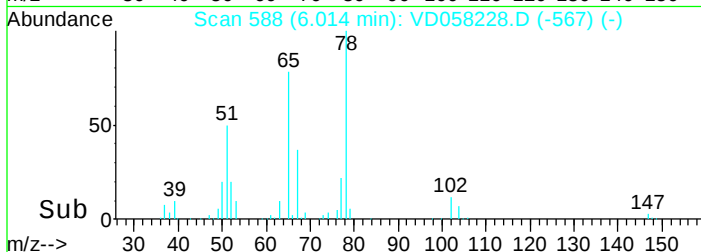


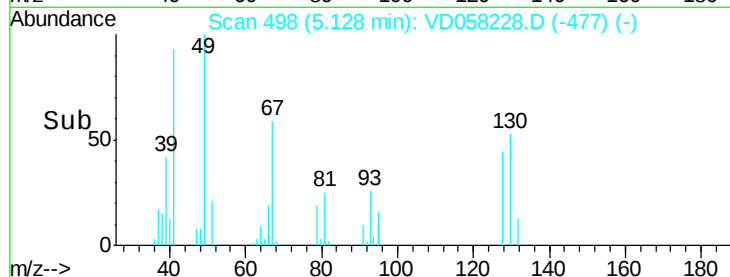
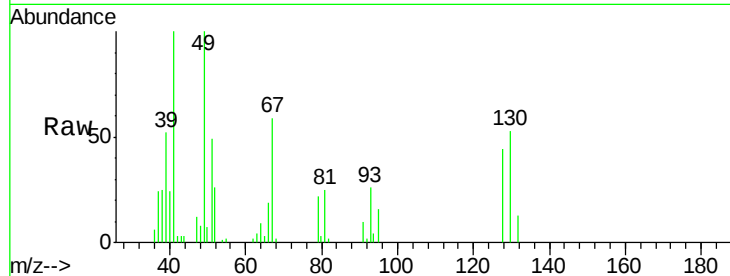
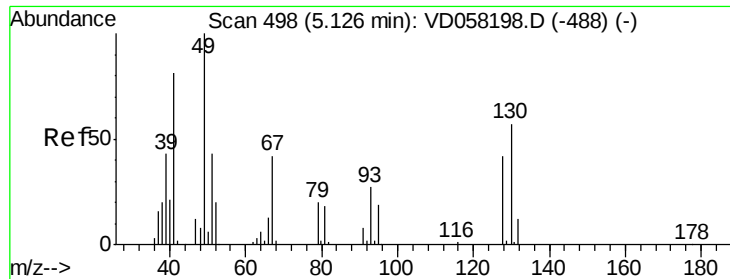
#40
Benzene
Concen: 22.35 ug/l
RT: 6.01 min Scan# 588
Delta R.T. 0.00 min
Lab File: VD058228.D
Acq: 21 Jun 2018 1:44

Tgt Ion: 78 Resp: 577681
Ion Ratio Lower Upper
78 100



Abundance Ion 76.95 (76.65 to 77.65): VD
Ion 77.095 (76.65 to 77.65): VD
Ion 78.15 (77.65 to 78.65): VD
Ion 78.52 (77.65 to 78.65): VD

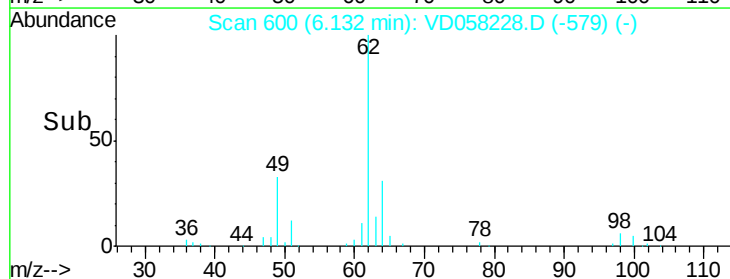
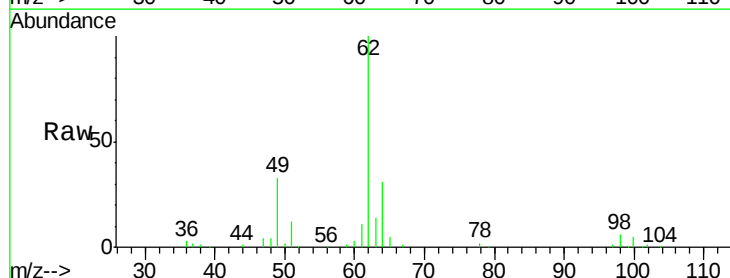
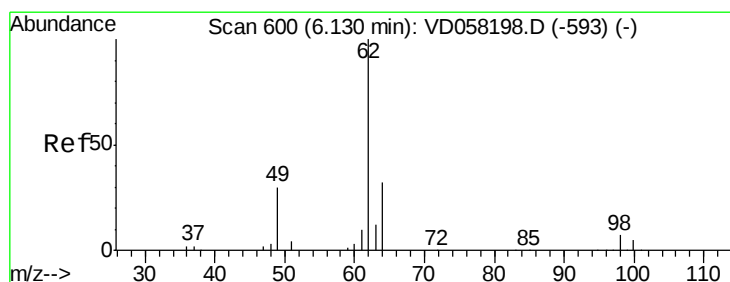
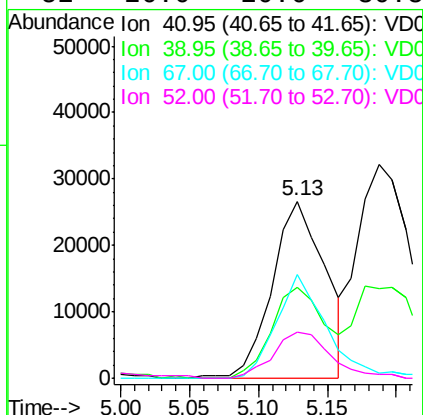




#41
Methacrylonitrile
Concen: 23.95 ug/l
RT: 5.13 min Scan# 498
Delta R.T. 0.00 min
Lab File: VD058228.D
Acq: 21 Jun 2018 1:44

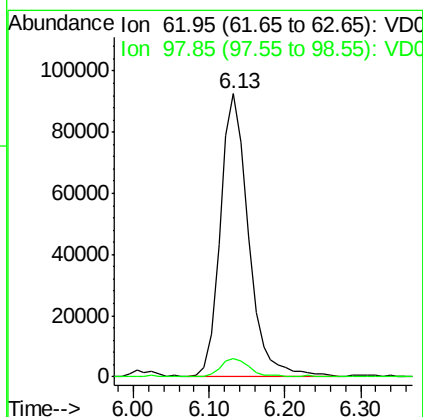
Instrument :
MSVOA_D
ClientSampleId :
VD0620SBSD03

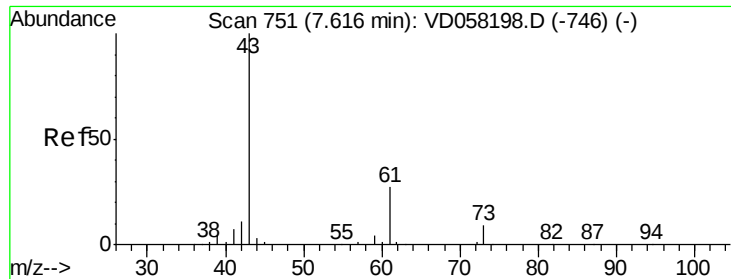
Tot Ion: 41 Resp: 71489
Ion Ratio Lower Upper
41 100
39 51.7 43.4 65.2
67 59.0 41.7 62.5
52 26.0 20.6 30.8



#42
1,2-Dichloroethane
Concen: 22.98 ug/l
RT: 6.13 min Scan# 600
Delta R.T. 0.00 min
Lab File: VD058228.D
Acq: 21 Jun 2018 1:44

Tgt Ion: 62 Resp: 239450
Ion Ratio Lower Upper
62 100
98 6.3 0.0 13.2





#43

Isopropyl Acetate

Concen: 22.25 ug/l

RT: 7.62 min Scan# 751

Delta R.T. 0.00 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

Instrument :

MSVOA_D

ClientSampleId :

VD0620SBS03

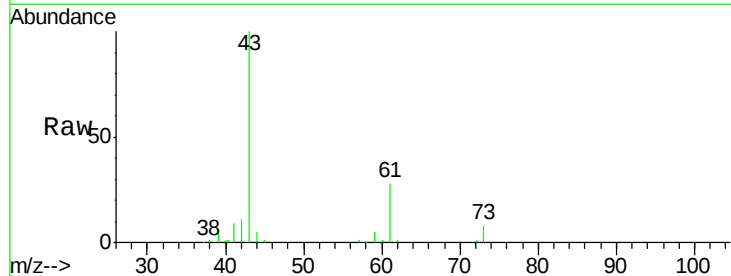
Tot Ion: 43 Resp: 183362

Ion Ratio Lower Upper

43 100

61 27.7 21.8 32.6

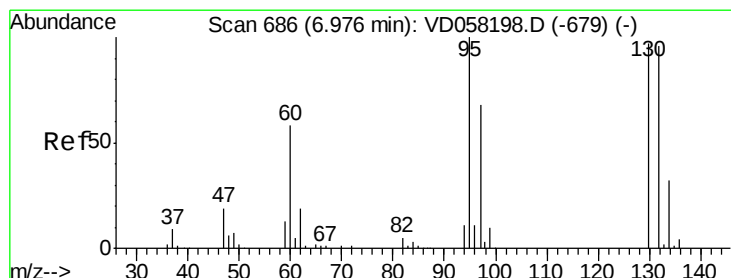
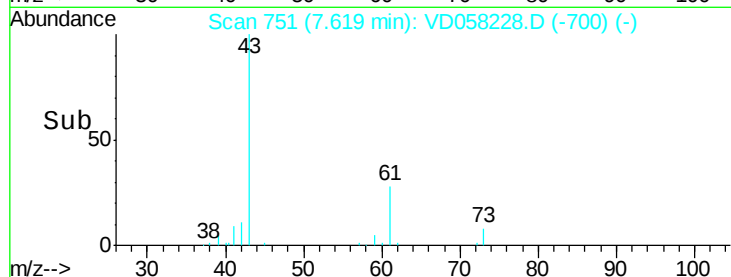
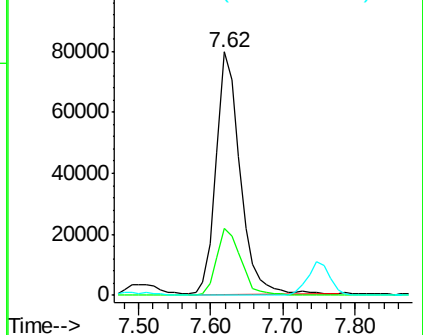
87 0.0 0.3 0.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 22.55 ug/l

RT: 6.99 min Scan# 687

Delta R.T. 0.01 min

Lab File: VD058228.D

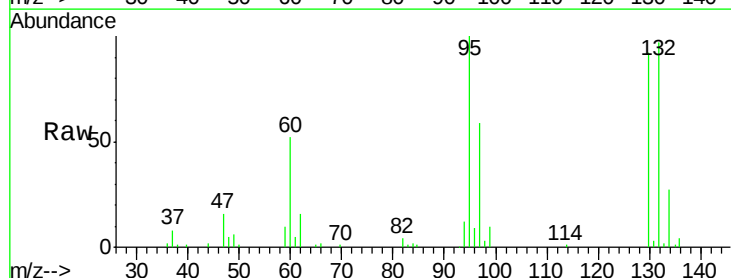
Acq: 21 Jun 2018 1:44

Tgt Ion:130 Resp: 174961

Ion Ratio Lower Upper

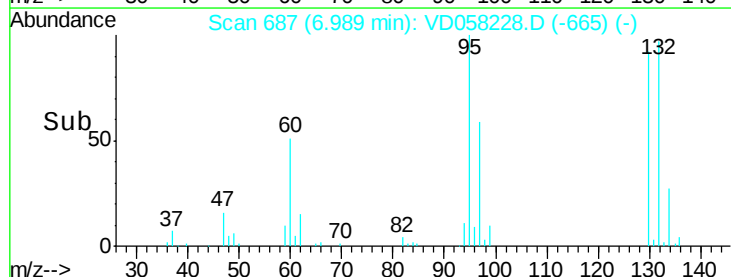
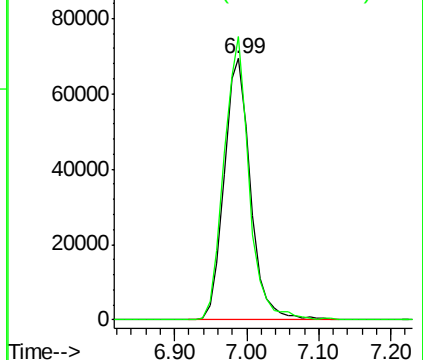
130 100

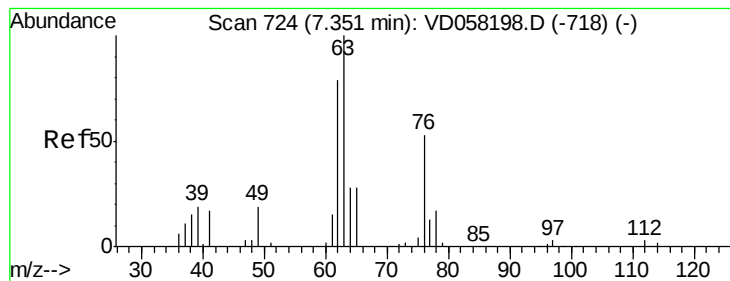
95 108.3 0.0 205.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 23.71 ug/l

RT: 7.35 min Scan# 724

Delta R.T. 0.00 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

Instrument :

MSVOA_D

ClientSampleId :

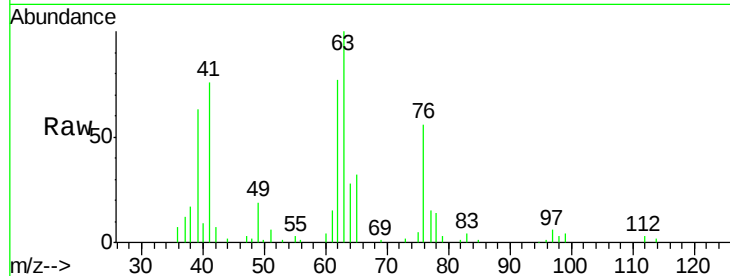
VD0620SBSD03

Tot Ion: 63 Resp: 165038

Ion Ratio Lower Upper

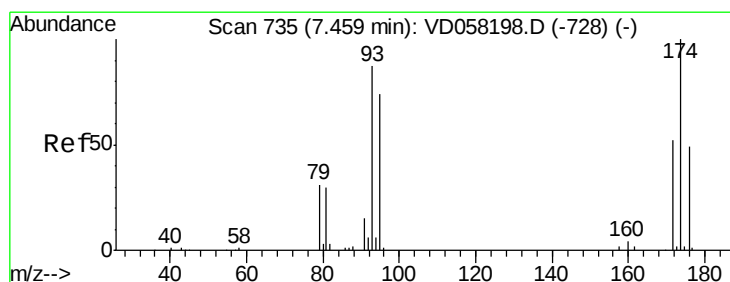
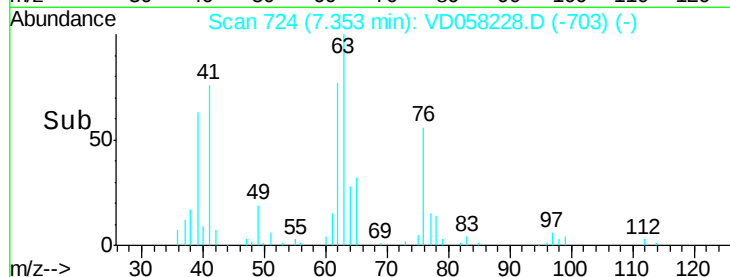
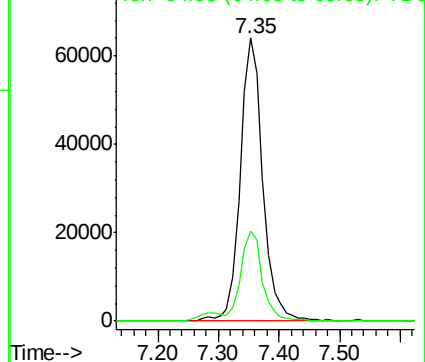
63 100

65 31.8 24.0 36.0



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 23.90 ug/l

RT: 7.46 min Scan# 735

Delta R.T. 0.00 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

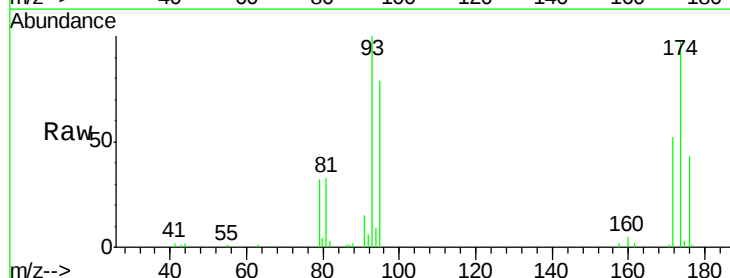
Tgt Ion: 93 Resp: 113551

Ion Ratio Lower Upper

93 100

95 78.8 67.8 101.6

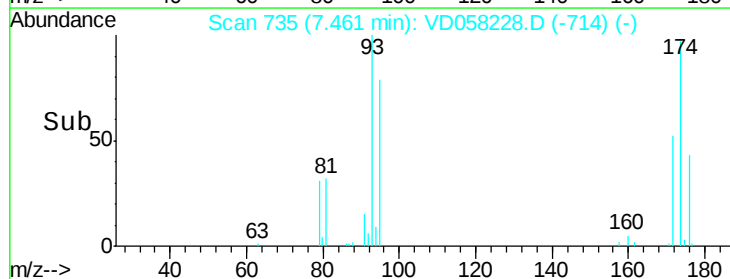
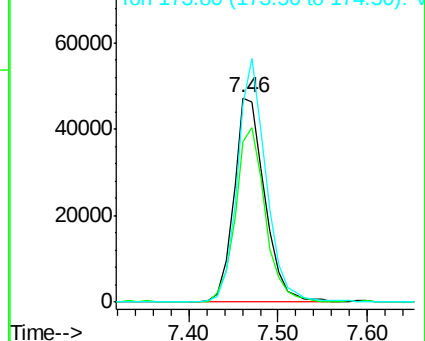
174 96.8 92.2 138.2

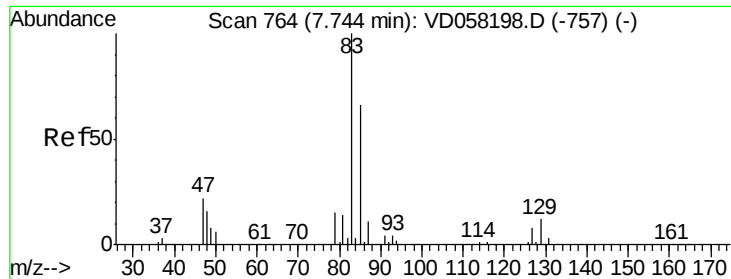


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

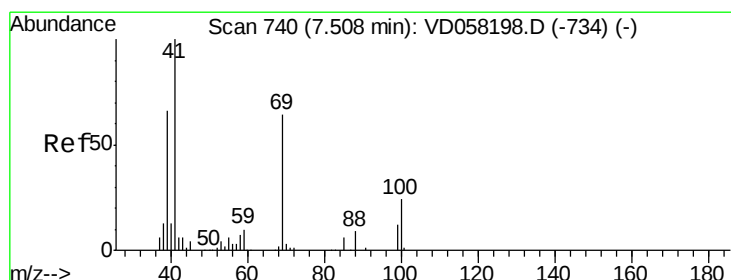
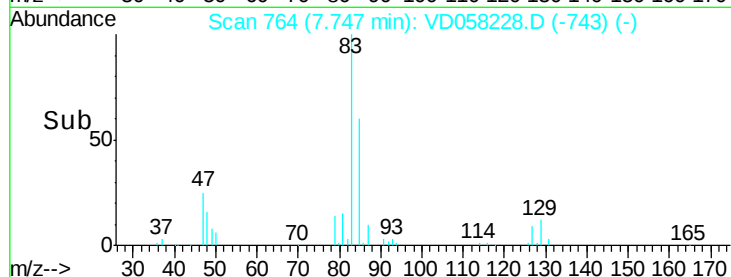
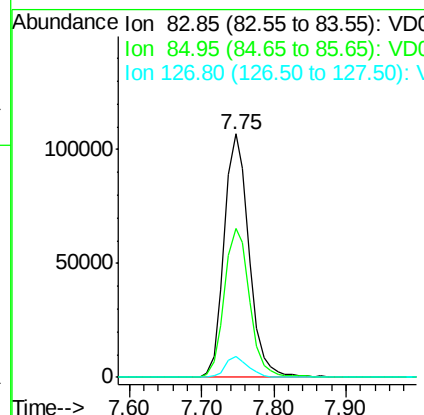
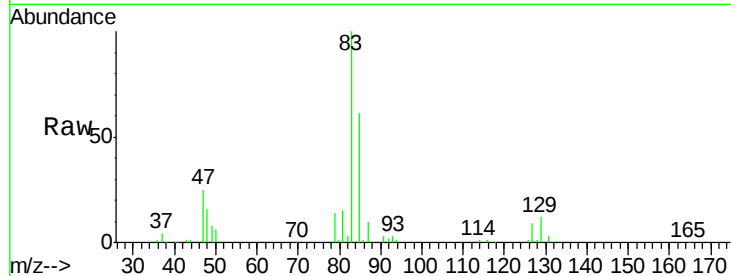




#47
Bromodichloromethane
Concen: 23.42 ug/l
RT: 7.75 min Scan# 764
Delta R.T. 0.00 min
Lab File: VD058228.D
Acq: 21 Jun 2018 1:44

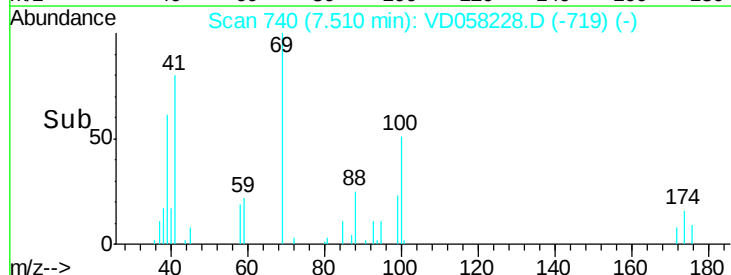
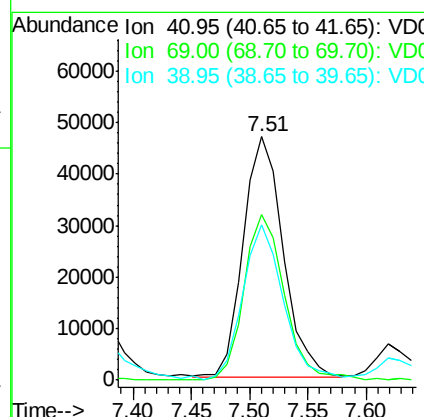
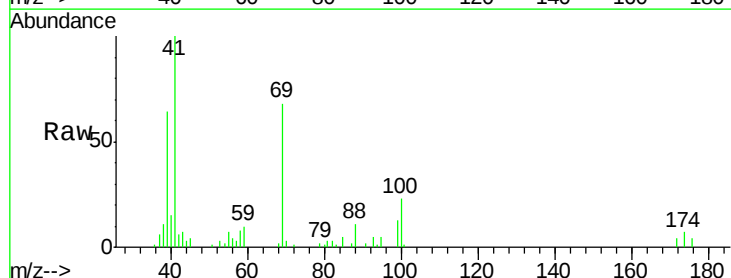
Instrument :
MSVOA_D
ClientSampleId :
VD0620SBSD03

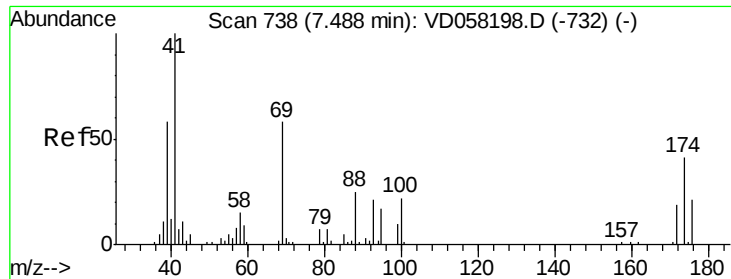
Tot Ion: 83 Resp: 253742
Ion Ratio Lower Upper
83 100
85 61.0 52.6 78.8
127 8.7 6.2 9.4



#48
Methyl methacrylate
Concen: 22.03 ug/l
RT: 7.51 min Scan# 740
Delta R.T. 0.00 min
Lab File: VD058228.D
Acq: 21 Jun 2018 1:44

Tgt Ion: 41 Resp: 110341
Ion Ratio Lower Upper
41 100
69 67.9 50.7 76.1
39 63.8 52.6 78.8





#49

1,4-Dioxane

Concen: 477.37 ug/l

RT: 7.50 min Scan# 739

Delta R.T. 0.01 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

Instrument :

MSVOA_D

ClientSampleId :

VD0620SBSD03

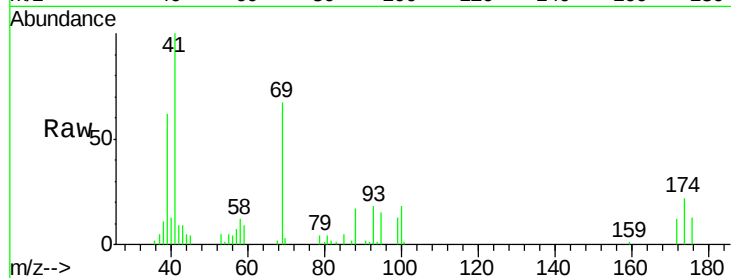
Tot Ion: 88 Resp: 21582

Ion Ratio Lower Upper

88 100

43 52.0 34.2 51.2#

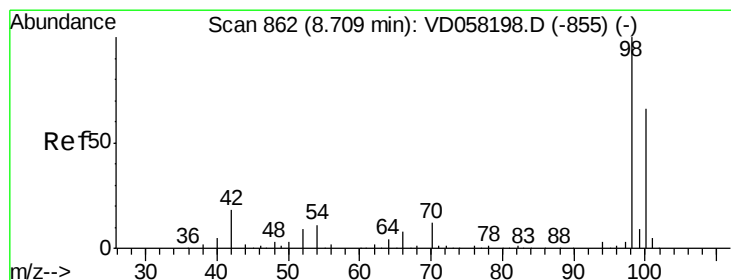
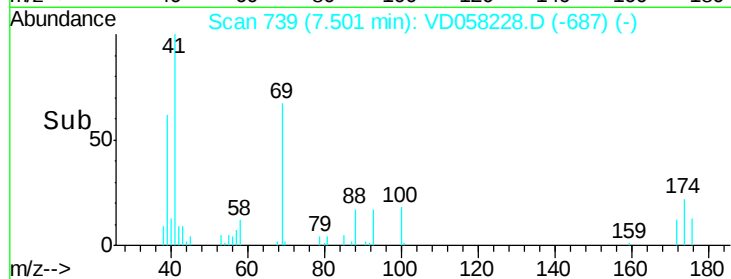
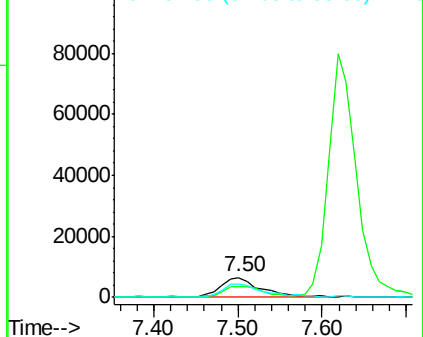
58 69.4 47.9 71.9



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: 477.37 ug/l

RT: 8.71 min Scan# 862

Delta R.T. 0.00 min

Lab File: VD058228.D

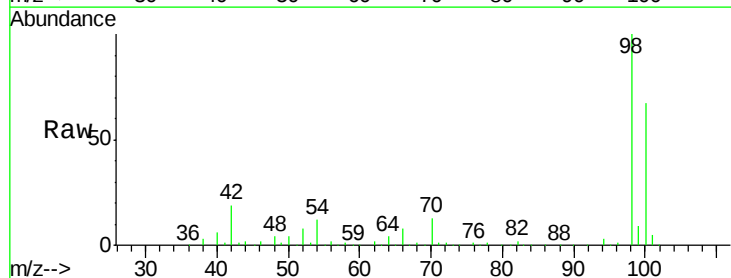
Acq: 21 Jun 2018 1:44

Tgt Ion: 98 Resp: 1107995

Ion Ratio Lower Upper

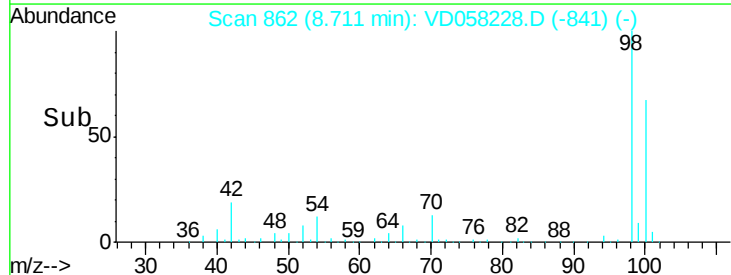
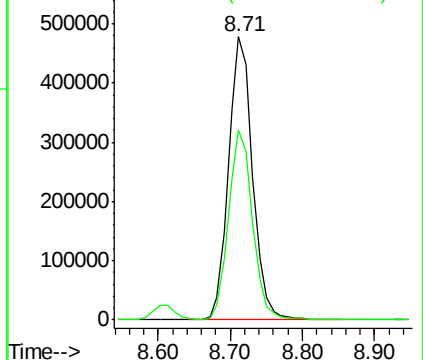
98 100

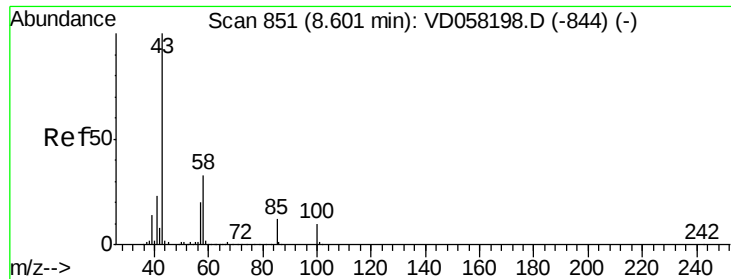
100 67.3 53.6 80.4



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: 116.55 ug/l

RT: 8.60 min Scan# 851

Delta R.T. 0.00 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

Instrument :

MSVOA_D

ClientSampleId :

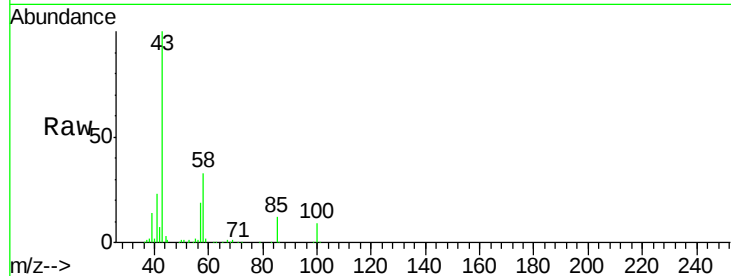
VD0620SBS03

Tot Ion: 43 Resp: 626507

Ion Ratio Lower Upper

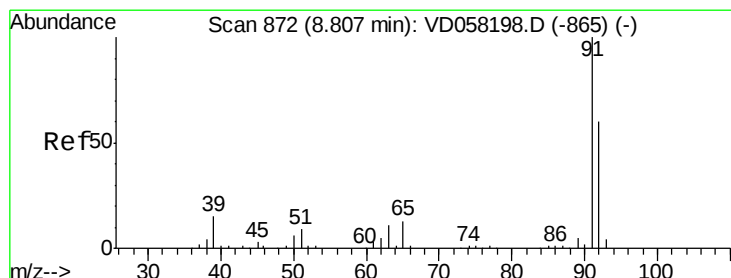
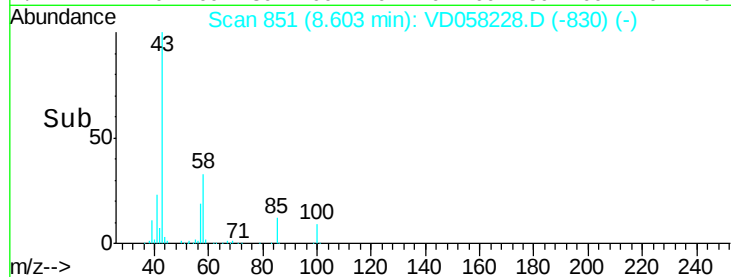
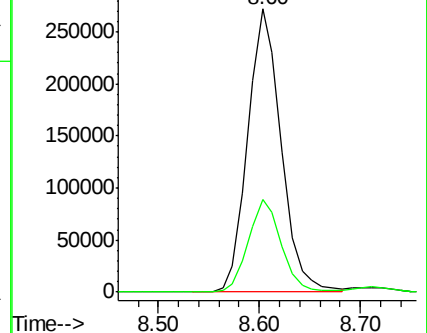
43 100

58 32.6 26.7 40.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 23.44 ug/l

RT: 8.81 min Scan# 872

Delta R.T. 0.00 min

Lab File: VD058228.D

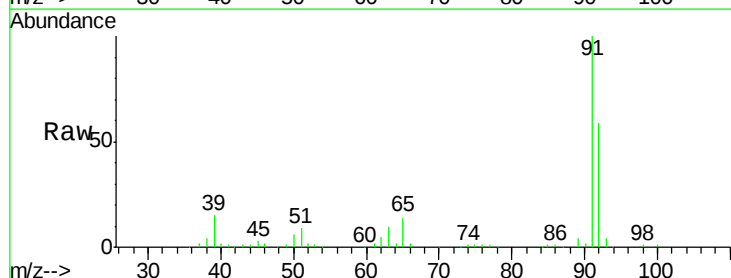
Acq: 21 Jun 2018 1:44

Tgt Ion: 92 Resp: 344990

Ion Ratio Lower Upper

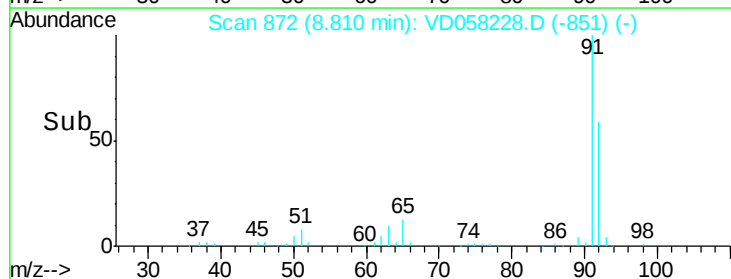
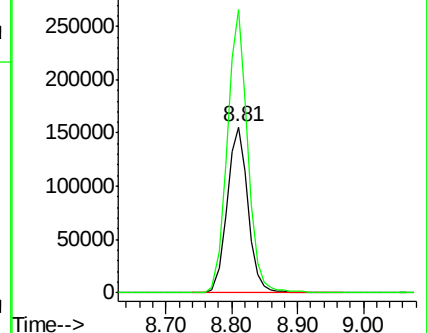
92 100

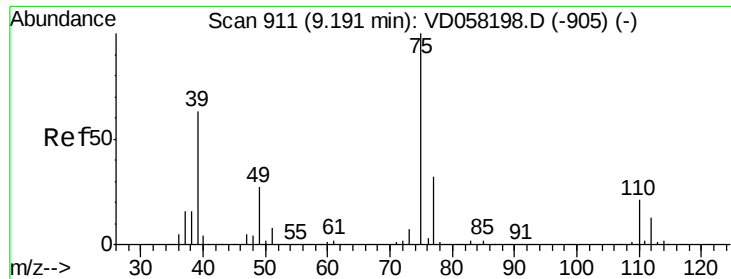
91 170.3 133.2 199.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

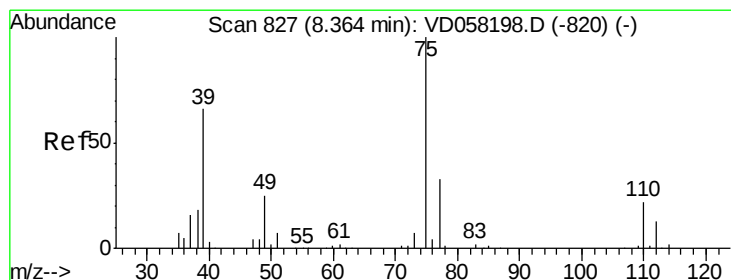
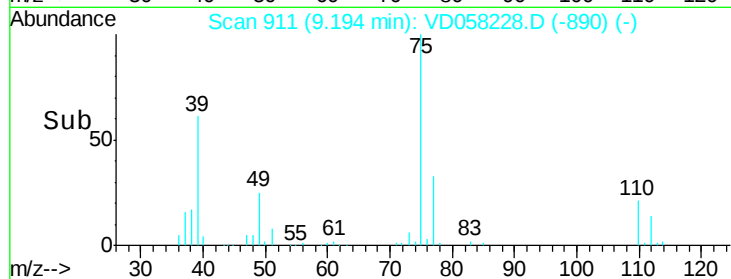
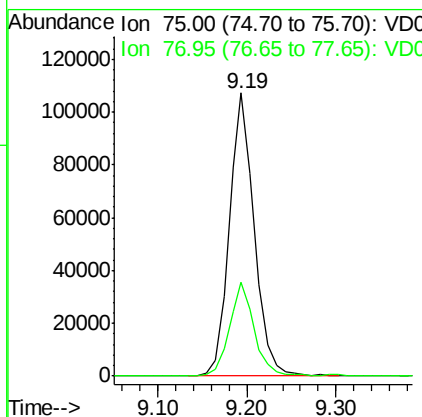
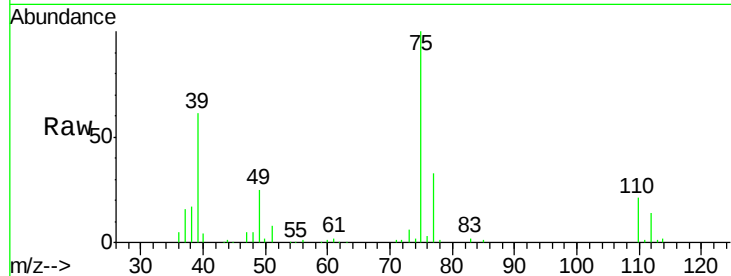




#53
 t-1,3-Dichloropropene
 Concen: 22.27 ug/l
 RT: 9.19 min Scan# 911
 Delta R.T. 0.00 min
 Lab File: VD058228.D
 Acq: 21 Jun 2018 1:44

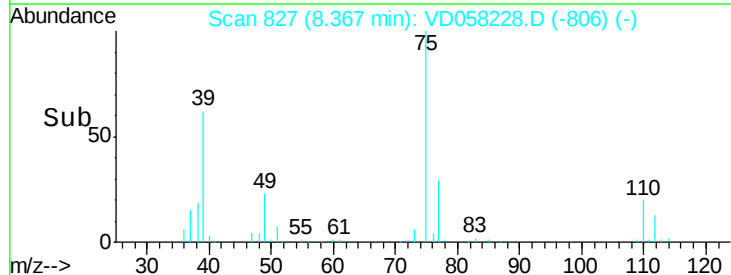
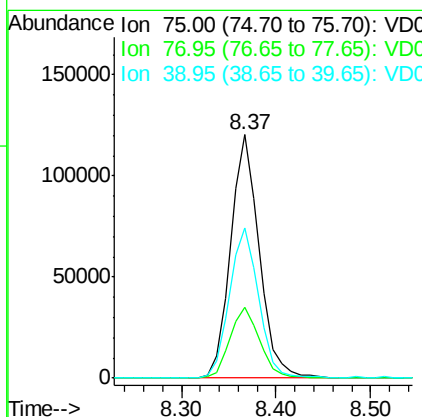
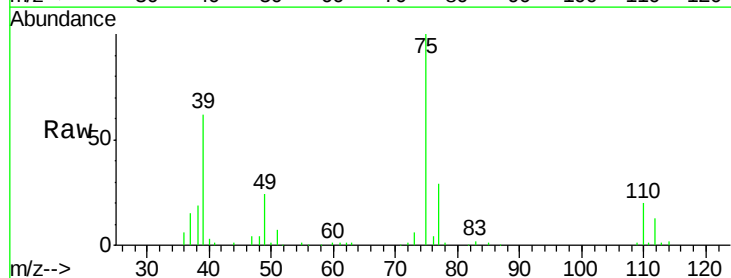
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0620SBSD03

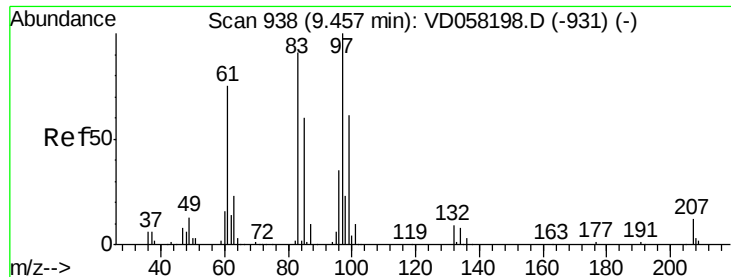
Tot Ion: 75 Resp: 209817
 Ion Ratio Lower Upper
 75 100
 77 33.0 25.8 38.8



#54
 cis-1,3-Dichloropropene
 Concen: 22.76 ug/l
 RT: 8.37 min Scan# 827
 Delta R.T. 0.00 min
 Lab File: VD058228.D
 Acq: 21 Jun 2018 1:44

Tgt Ion: 75 Resp: 251339
 Ion Ratio Lower Upper
 75 100
 77 29.2 26.5 39.7
 39 61.9 52.9 79.3





#55

1,1,2-Trichloroethane

Concen: 23.02 ug/l

RT: 9.46 min Scan# 938

Delta R.T. 0.00 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

Instrument :

MSVOA_D

ClientSampleId :

VD0620SBSD03

Tot Ion: 97 Resp: 119861

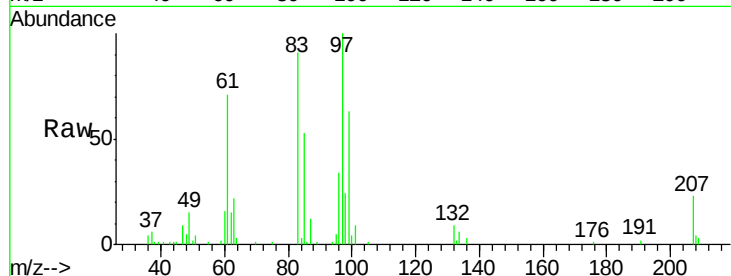
Ion Ratio Lower Upper

97 100

83 91.4 72.9 109.3

85 52.9 48.2 72.4

99 62.9 48.9 73.3

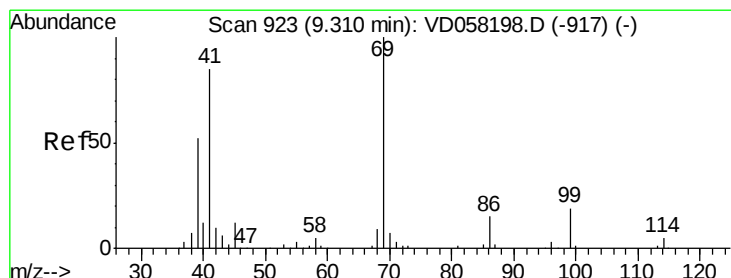
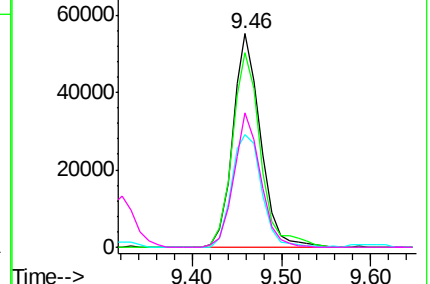
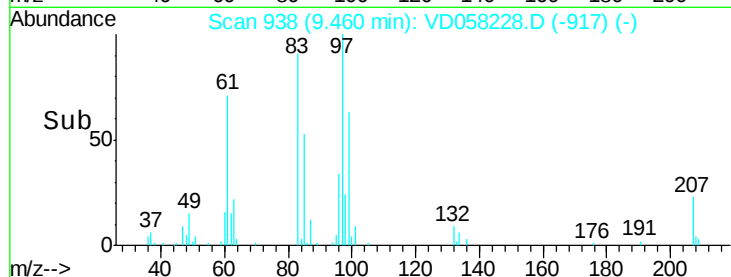


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC



#56

Ethyl methacrylate

Concen: 23.01 ug/l

RT: 9.32 min Scan# 924

Delta R.T. 0.01 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

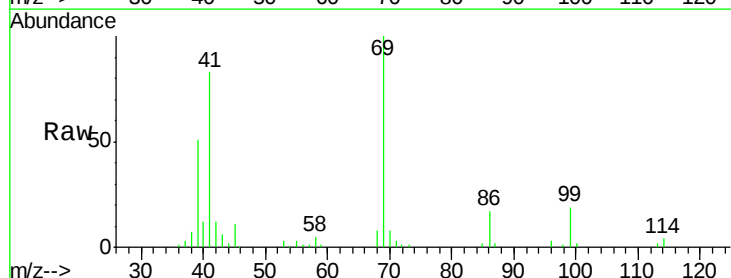
Tgt Ion: 69 Resp: 143298

Ion Ratio Lower Upper

69 100

41 82.6 67.6 101.4

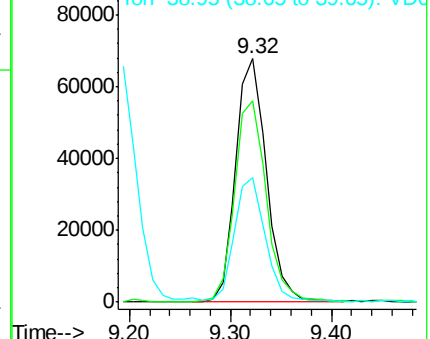
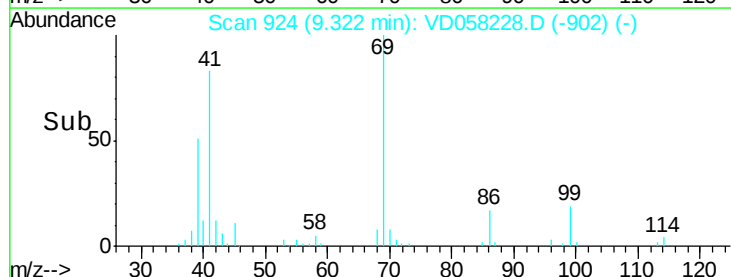
39 50.9 42.2 63.2

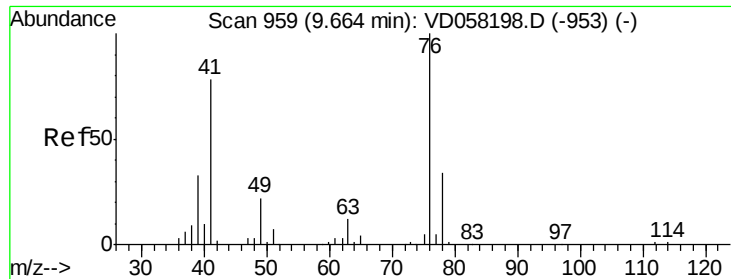


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

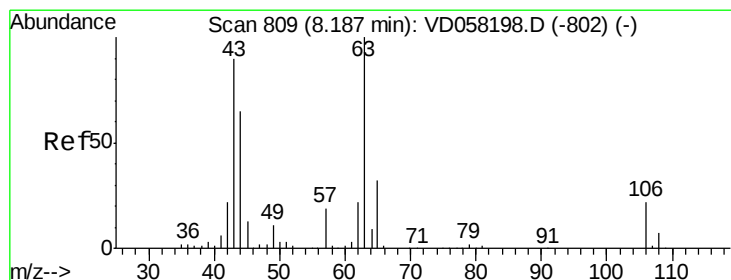
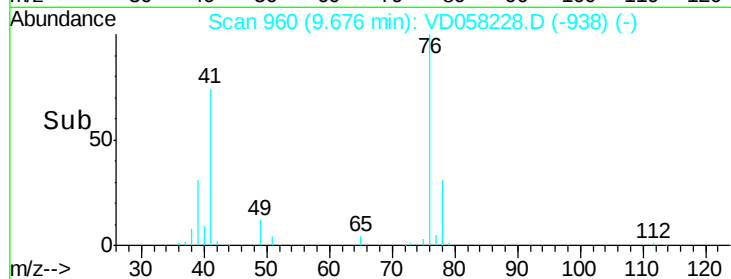
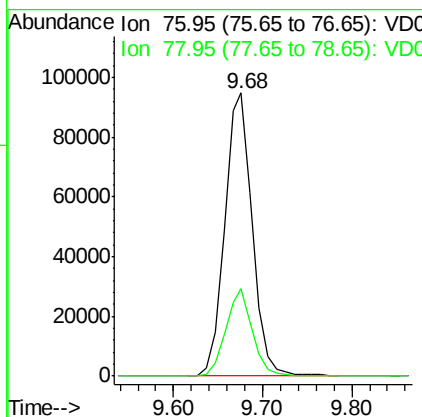
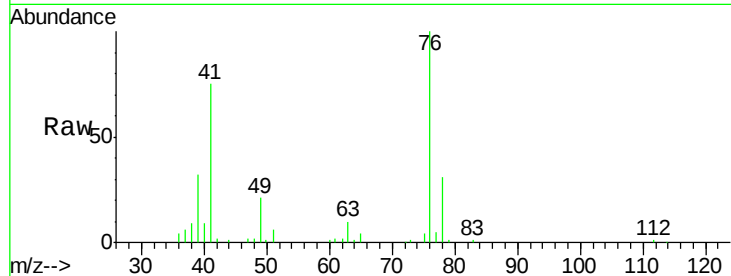




#57
 1,3-Dichloropropane
 Concen: 23.33 ug/l
 RT: 9.68 min Scan# 960
 Delta R.T. 0.01 min
 Lab File: VD058228.D
 Acq: 21 Jun 2018 1:44

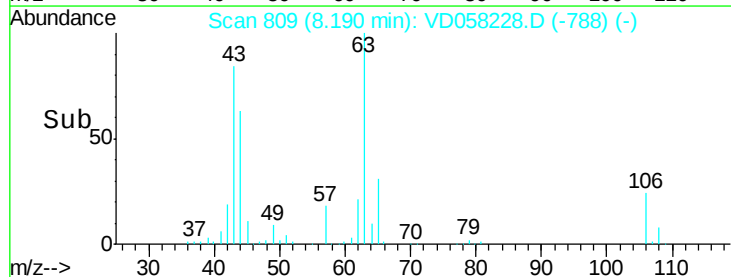
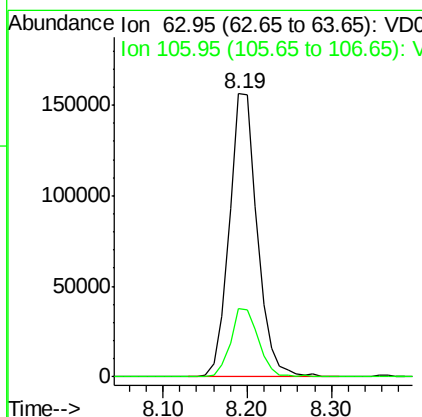
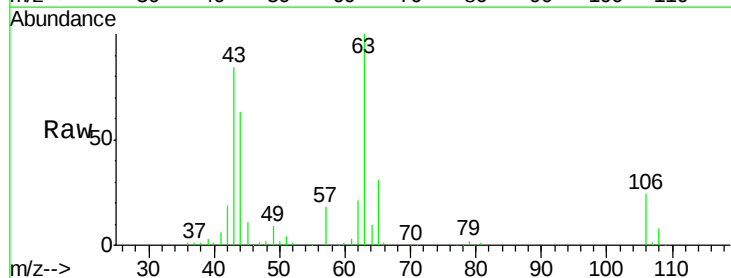
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0620SBSD03

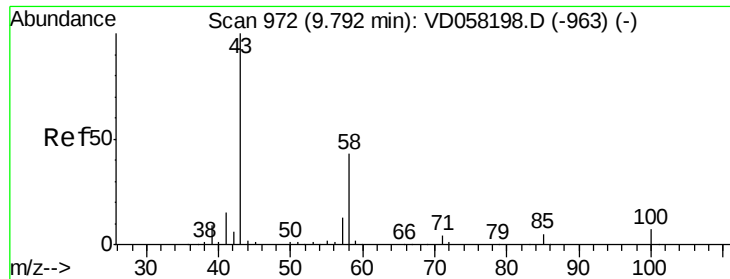
Tot Ion: 76 Resp: 204602
 Ion Ratio Lower Upper
 76 100
 78 30.7 27.0 40.6



#58
 2-Chloroethyl Vinyl ether
 Concen: 117.22 ug/l
 RT: 8.19 min Scan# 809
 Delta R.T. 0.00 min
 Lab File: VD058228.D
 Acq: 21 Jun 2018 1:44

Tgt Ion: 63 Resp: 361328
 Ion Ratio Lower Upper
 63 100
 106 24.0 18.0 27.0

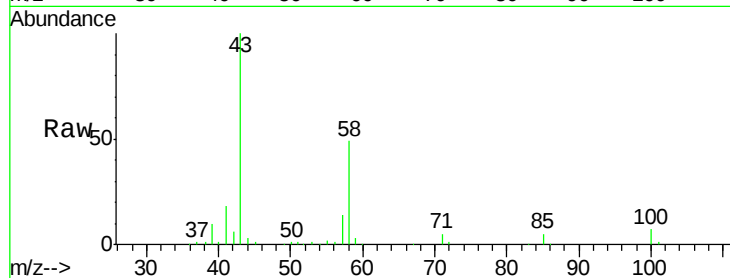




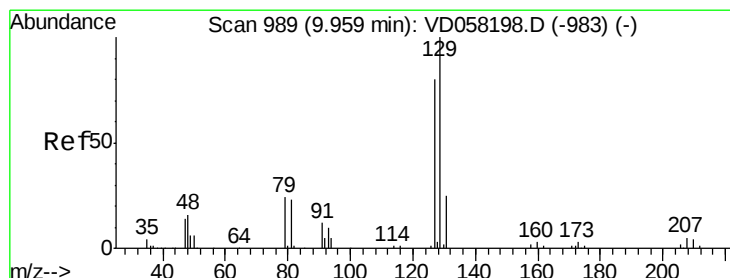
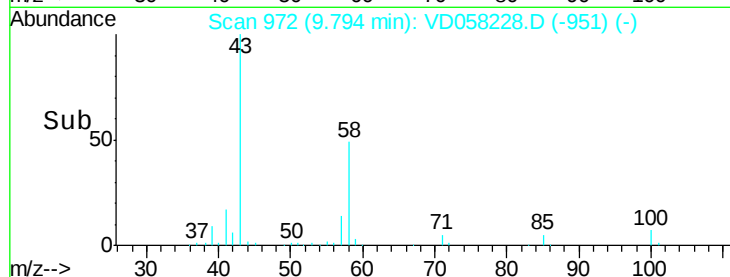
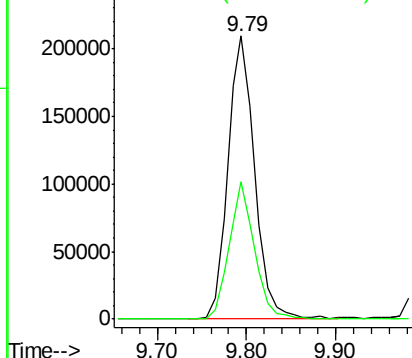
#59
2-Hexanone
Concen: 113.59 ug/l
RT: 9.79 min Scan# 972
Delta R.T. 0.00 min
Lab File: VD058228.D
Acq: 21 Jun 2018 1:44

Instrument :
MSVOA_D
ClientSampleId :
VD0620SBSD03

Tot Ion: 43 Resp: 441168
Ion Ratio Lower Upper
43 100
58 48.7 21.7 65.1

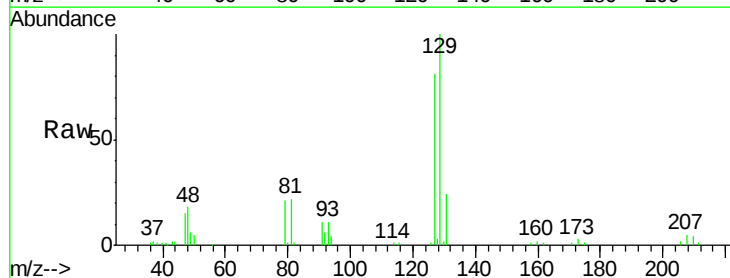


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

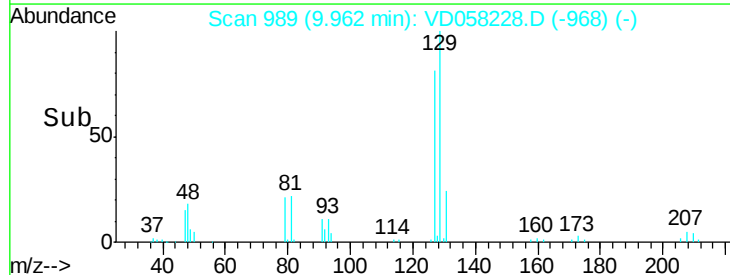
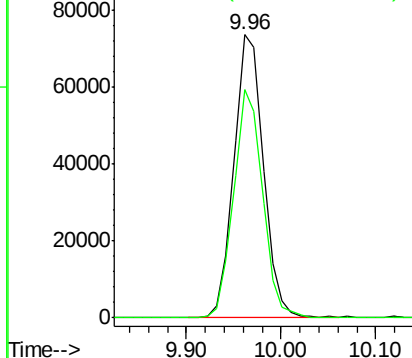


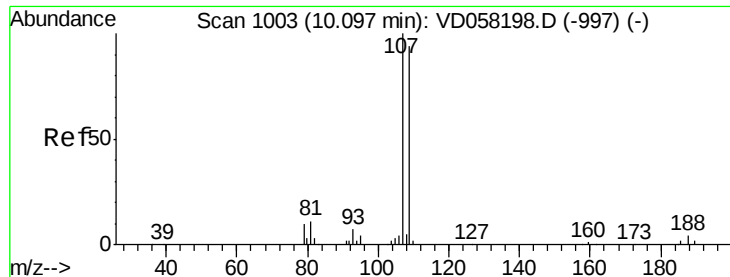
#60
Dibromochloromethane
Concen: 22.52 ug/l
RT: 9.96 min Scan# 989
Delta R.T. 0.00 min
Lab File: VD058228.D
Acq: 21 Jun 2018 1:44

Tgt Ion: 129 Resp: 159140
Ion Ratio Lower Upper
129 100
127 80.8 39.8 119.4



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





#61

1,2-Dibromoethane

Concen: 22.29 ug/l

RT: 10.10 min Scan# 1003

Delta R.T. 0.00 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

Instrument :

MSVOA_D

ClientSampleId :

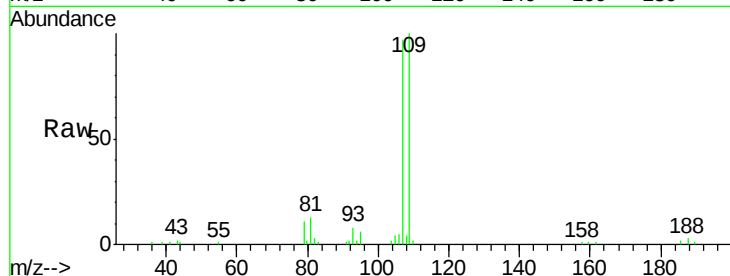
VD0620SBSD03

Tot Ion:107 Resp: 127033

Ion Ratio Lower Upper

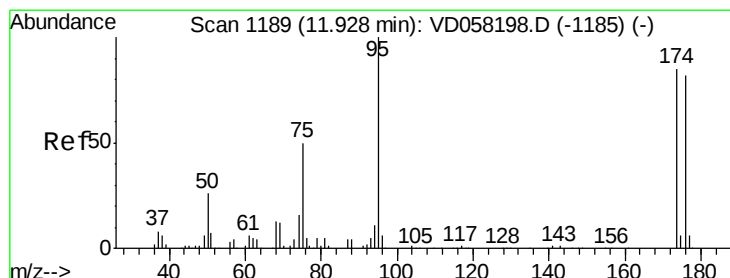
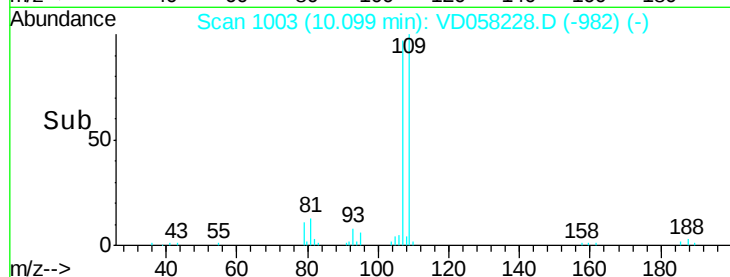
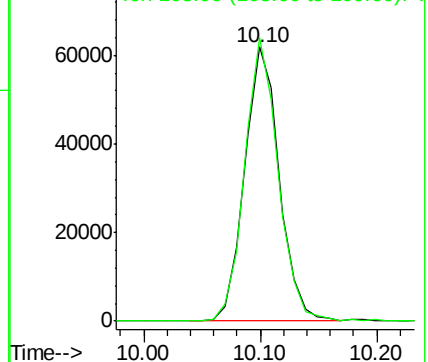
107 100

109 103.3 74.8 112.2



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V



#62

4-Bromofluorobenzene

Concen: 22.29 ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.01 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

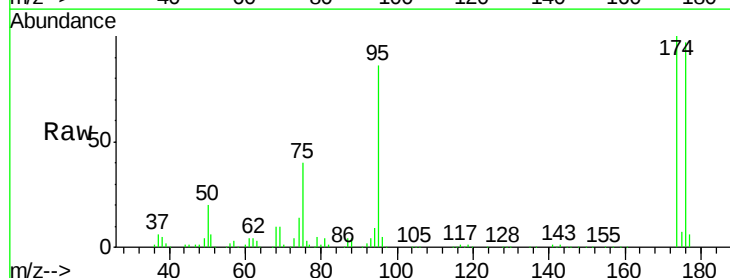
Tgt Ion: 95 Resp: 445806

Ion Ratio Lower Upper

95 100

174 116.4 0.0 170.2

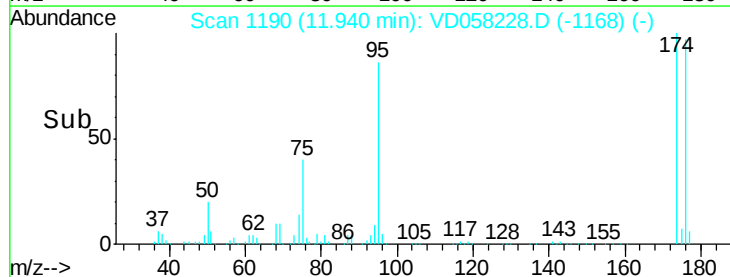
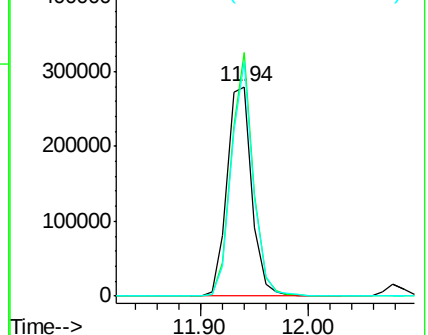
176 112.4 0.0 164.6

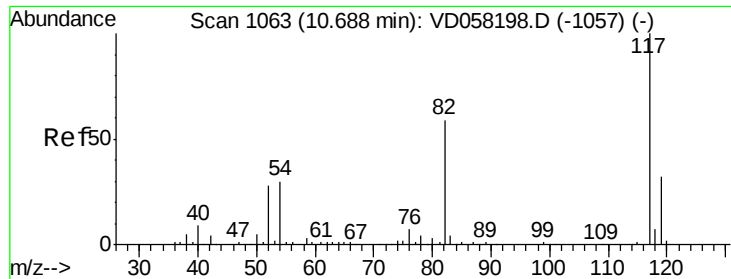


Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

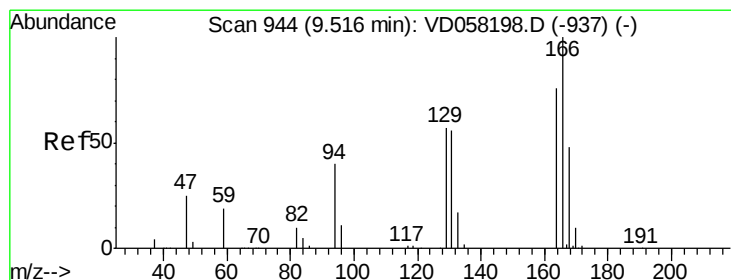
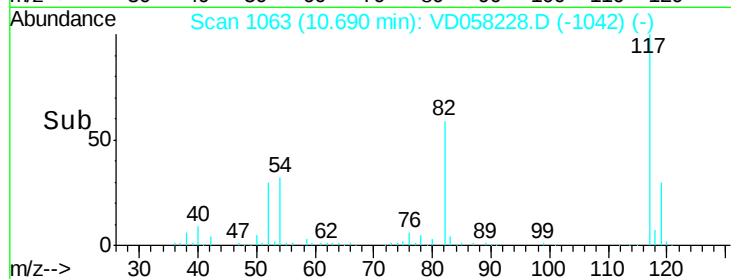
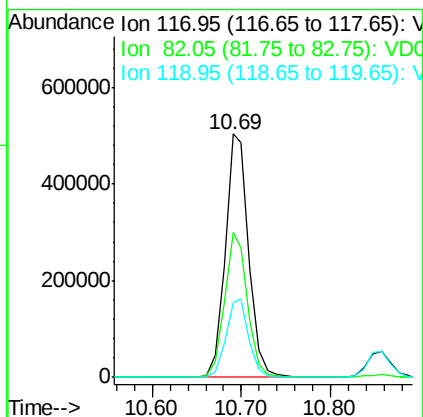
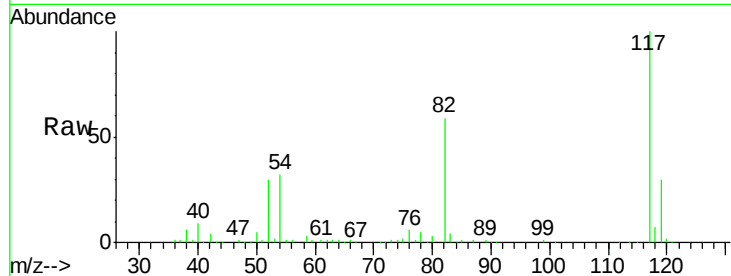




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.69 min Scan# 1063
Delta R.T. 0.00 min
Lab File: VD058228.D
Acq: 21 Jun 2018 1:44

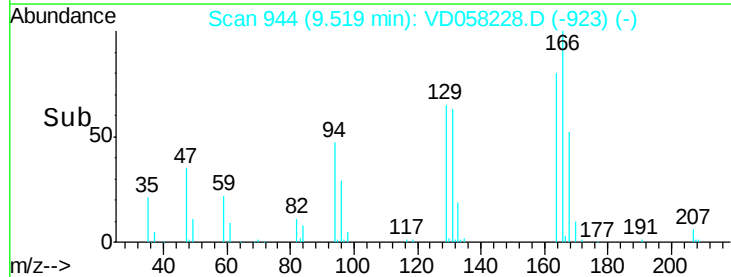
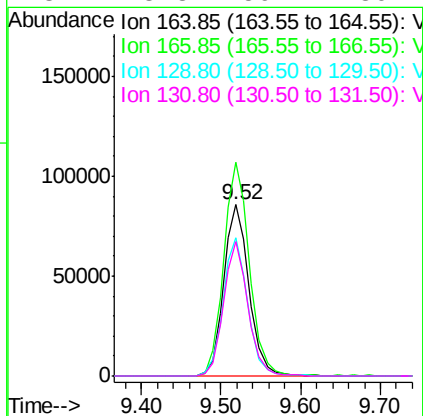
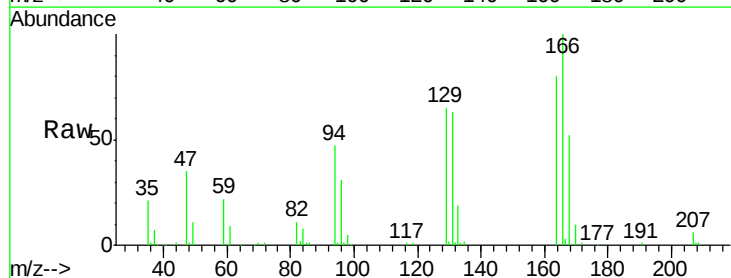
Instrument :
MSVOA_D
ClientSampleId :
VD0620SBSD03

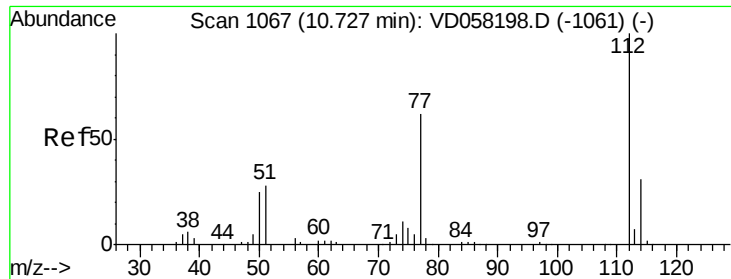
Tot Ion:117 Resp: 930875
Ion Ratio Lower Upper
117 100
82 59.5 47.0 70.6
119 30.5 25.3 37.9



#64
Tetrachloroethene
Concen: 24.36 ug/l
RT: 9.52 min Scan# 944
Delta R.T. 0.00 min
Lab File: VD058228.D
Acq: 21 Jun 2018 1:44

Tgt Ion:164 Resp: 190834
Ion Ratio Lower Upper
164 100
166 124.7 105.4 158.0
129 80.7 59.6 89.4
131 78.8 59.4 89.2

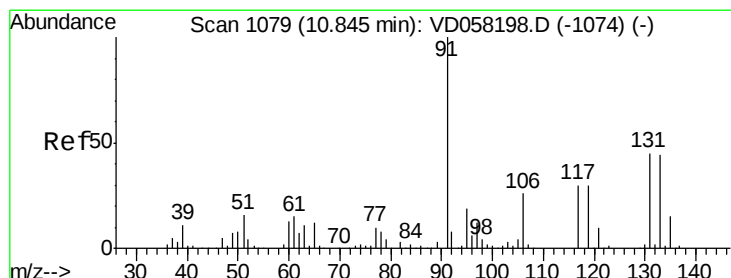
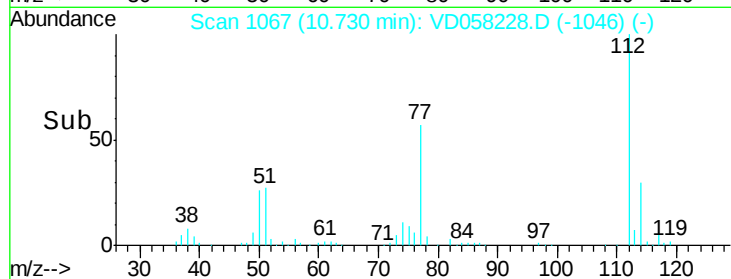
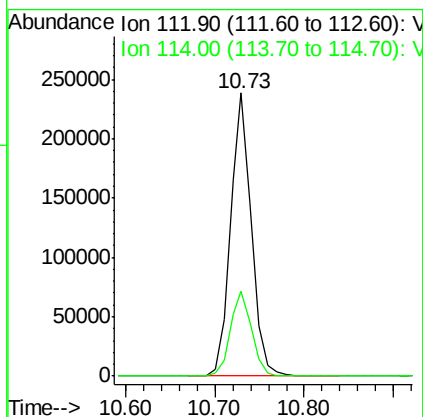
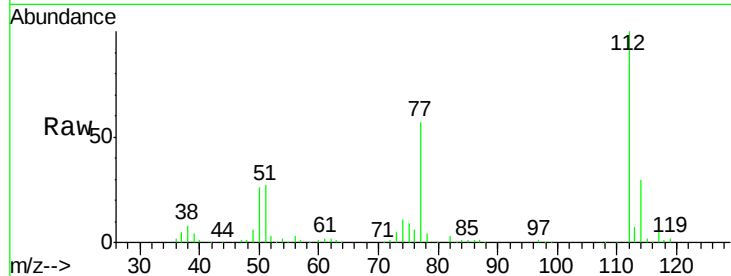




#65
Chlorobenzene
Concen: 22.50 ug/l
RT: 10.73 min Scan# 1067
Delta R.T. 0.00 min
Lab File: VD058228.D
Acq: 21 Jun 2018 1:44

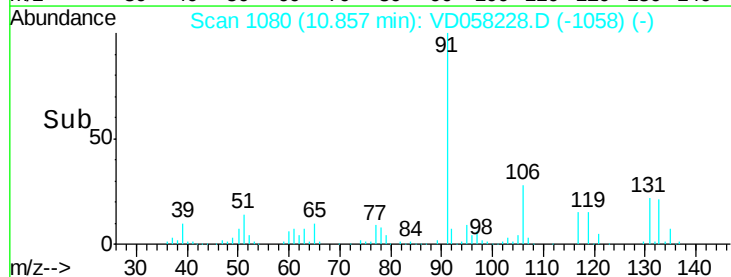
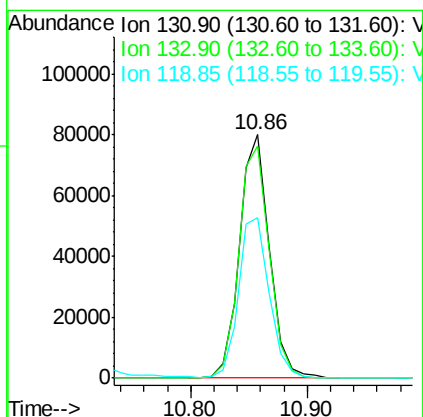
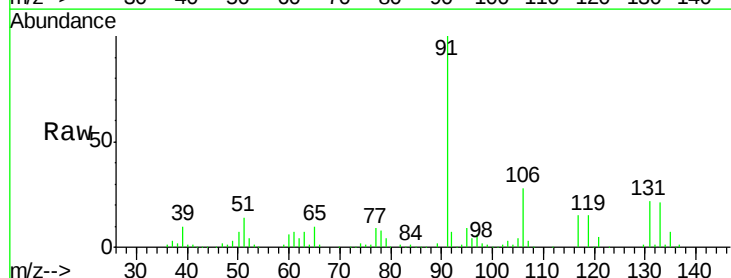
Instrument :
MSVOA_D
ClientSampleId :
VD0620SBSD03

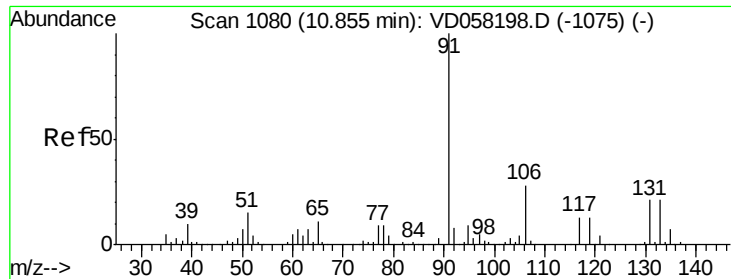
Tot Ion:112 Resp: 391782
Ion Ratio Lower Upper
112 100
114 30.1 25.0 37.4



#66
1,1,1,2-Tetrachloroethane
Concen: 20.98 ug/l
RT: 10.86 min Scan# 1080
Delta R.T. 0.01 min
Lab File: VD058228.D
Acq: 21 Jun 2018 1:44

Tgt Ion:131 Resp: 140952
Ion Ratio Lower Upper
131 100
133 95.5 48.6 145.9
119 65.9 33.0 99.0

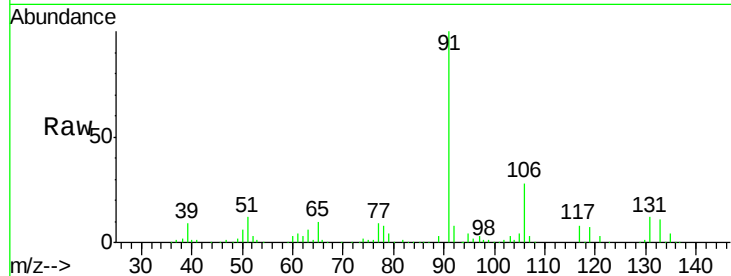




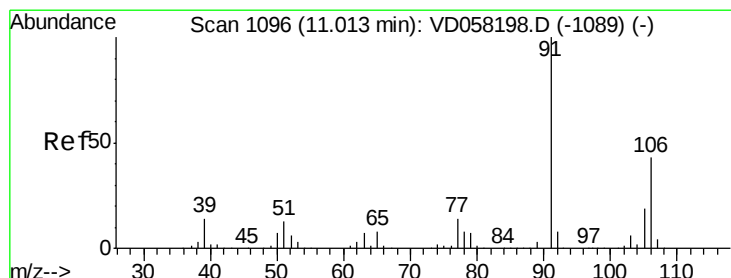
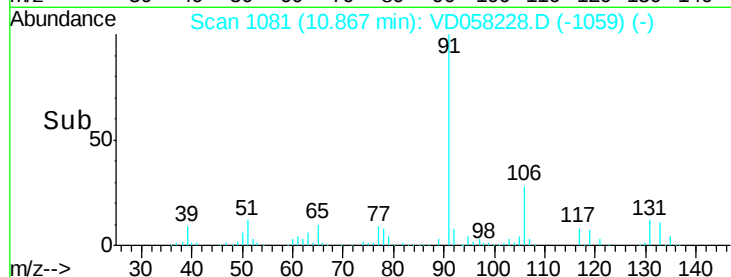
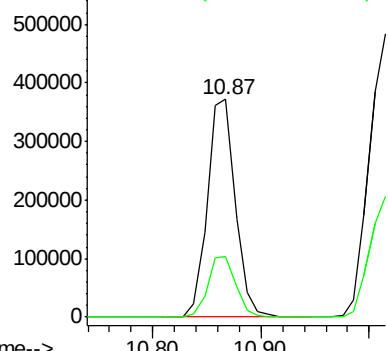
#67
Ethvl Benzene
Concen: 21.78 ug/l
RT: 10.87 min Scan# 1081
Delta R.T. 0.01 min
Lab File: VD058228.D
Acq: 21 Jun 2018 1:44

Instrument :
MSVOA_D
ClientSampleId :
VD0620SBSD03

Tot Ion: 91 Resp: 669488
Ion Ratio Lower Upper
91 100
106 27.9 22.0 33.0

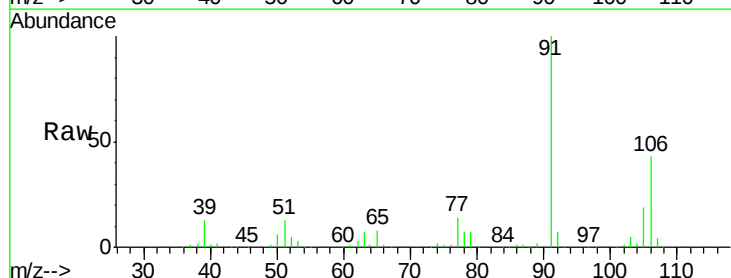


Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 106.05 (105.75 to 106.75): V

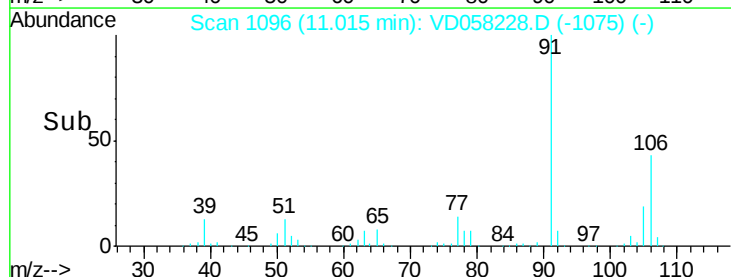
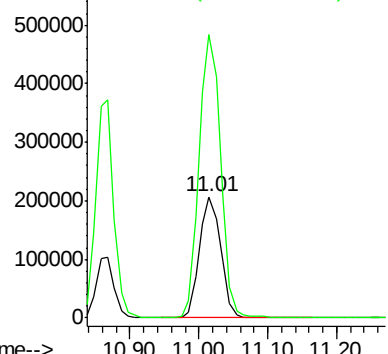


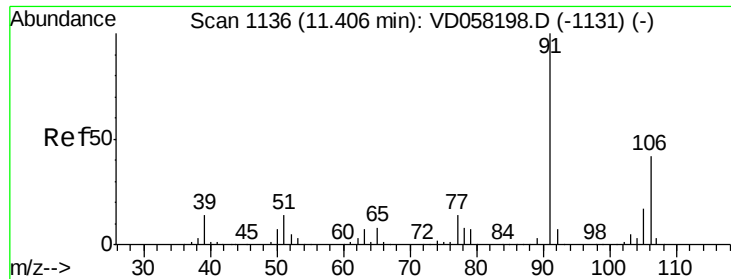
#68
m/p-Xylenes
Concen: 43.33 ug/l
RT: 11.01 min Scan# 1096
Delta R.T. 0.00 min
Lab File: VD058228.D
Acq: 21 Jun 2018 1:44

Tgt Ion:106 Resp: 444180
Ion Ratio Lower Upper
106 100
91 234.1 185.0 277.6



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

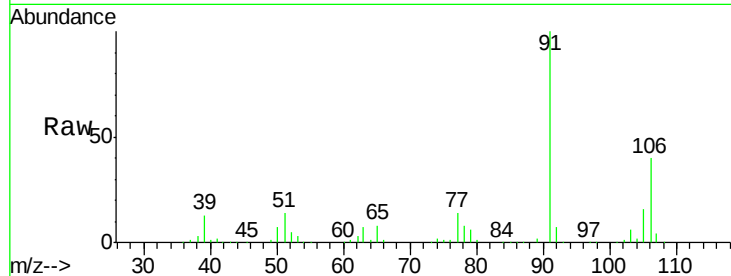




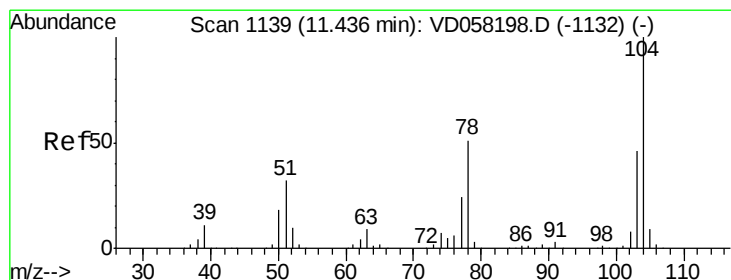
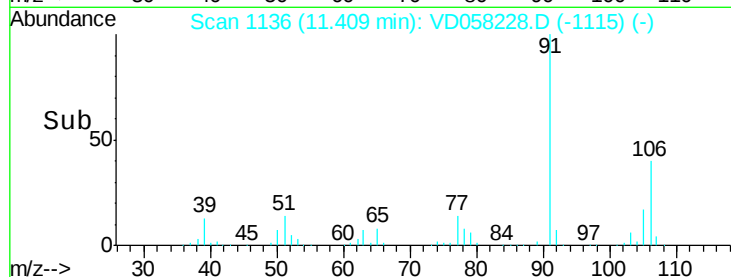
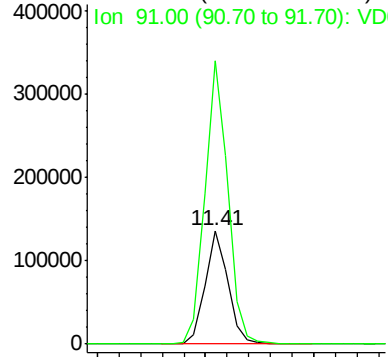
#69
o-Xylene
Concen: 20.47 ug/l
RT: 11.41 min Scan# 1136
Delta R.T. 0.00 min
Lab File: VD058228.D
Acq: 21 Jun 2018 1:44

Instrument :
MSVOA_D
ClientSampleId :
VD0620SBSD03

Tot Ion:106 Resp: 200407
Ion Ratio Lower Upper
106 100
91 249.9 120.2 360.6

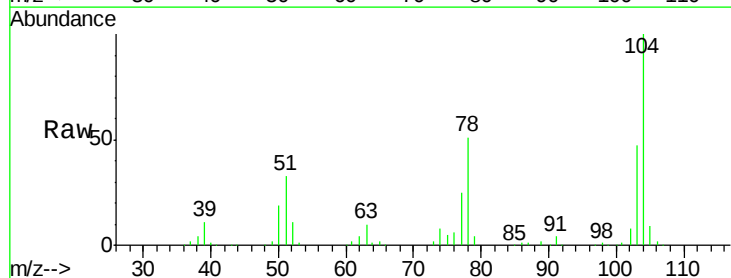


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

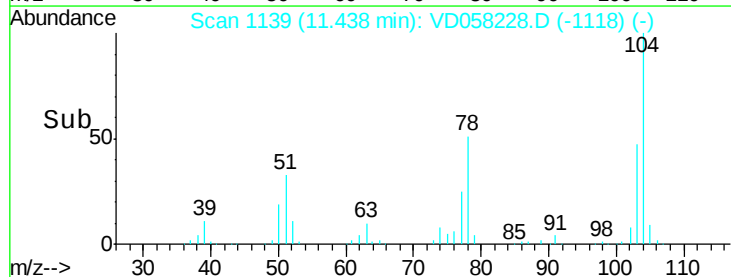
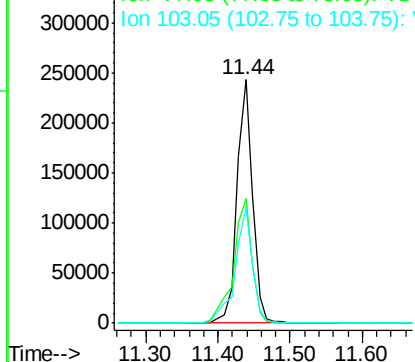


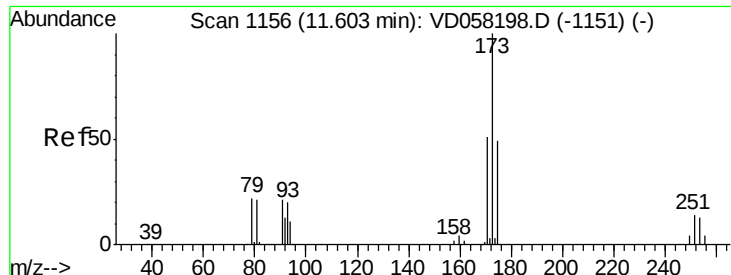
#70
Styrene
Concen: 21.94 ug/l
RT: 11.44 min Scan# 1139
Delta R.T. 0.00 min
Lab File: VD058228.D
Acq: 21 Jun 2018 1:44

Tgt Ion:104 Resp: 366612
Ion Ratio Lower Upper
104 100
78 51.2 40.8 61.2
103 47.4 37.0 55.6



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

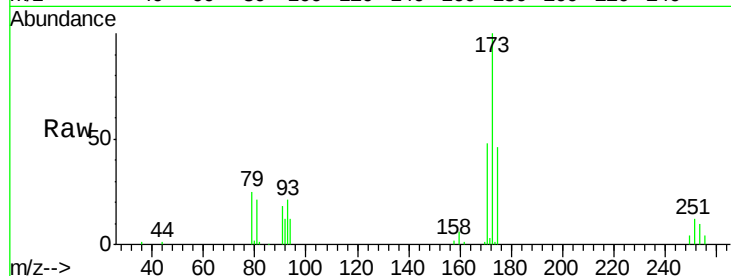




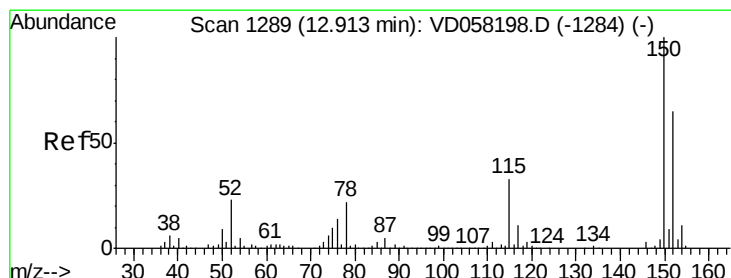
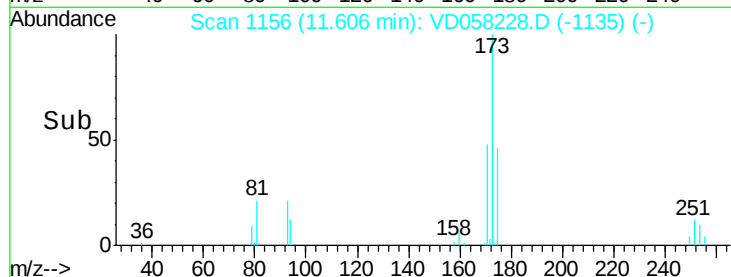
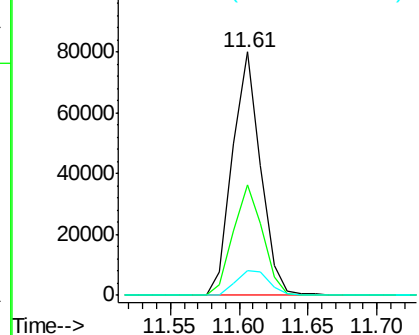
#71
Bromoform
Concen: 21.23 ug/l
RT: 11.61 min Scan# 1156
Delta R.T. 0.00 min
Lab File: VD058228.D
Acq: 21 Jun 2018 1:44

Instrument :
MSVOA_D
ClientSampleId :
VD0620SBSD03

Tot Ion:173 Resp: 113819
Ion Ratio Lower Upper
173 100
175 45.5 24.6 74.0
254 10.2 10.3 15.5#

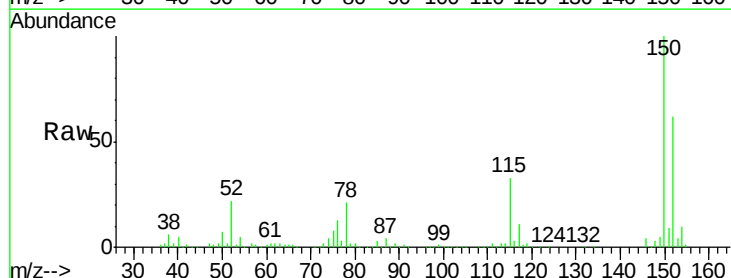


Abundance Ion 172.80 (172.50 to 173.50): V
Ion 174.80 (174.50 to 175.50): V
Ion 253.70 (253.40 to 254.40): V

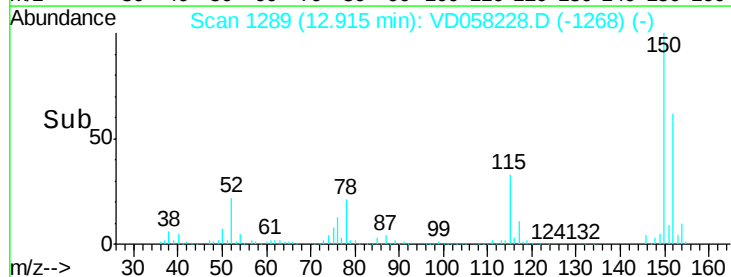
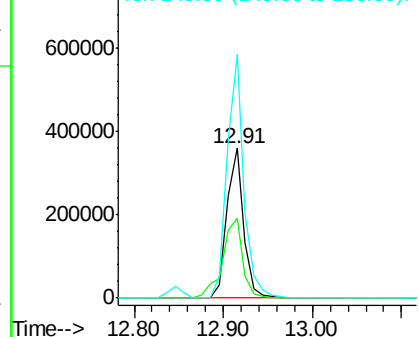


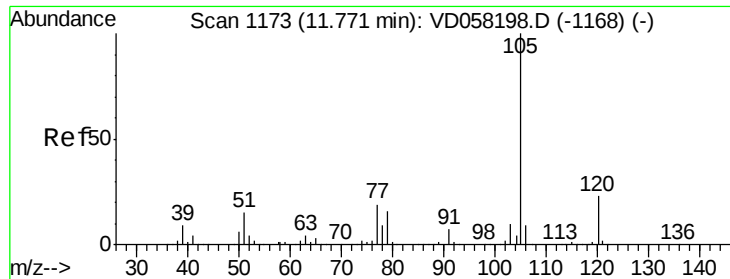
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.91 min Scan# 1289
Delta R.T. 0.00 min
Lab File: VD058228.D
Acq: 21 Jun 2018 1:44

Tgt Ion:152 Resp: 479140
Ion Ratio Lower Upper
152 100
115 53.4 25.1 75.3
150 162.2 0.0 308.8



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: 20.85 ug/l

RT: 11.77 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

Instrument :

MSVOA_D

ClientSampleId :

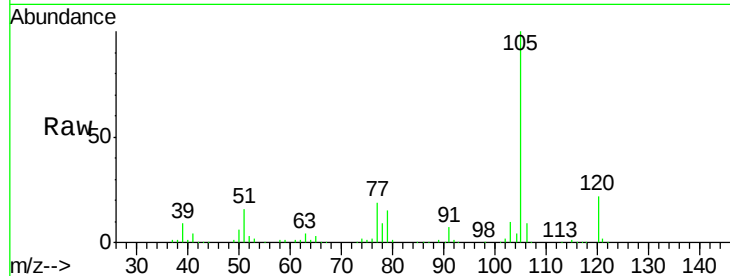
VD0620SBS03

Tot Ion: 105 Resp: 597417

Ion Ratio Lower Upper

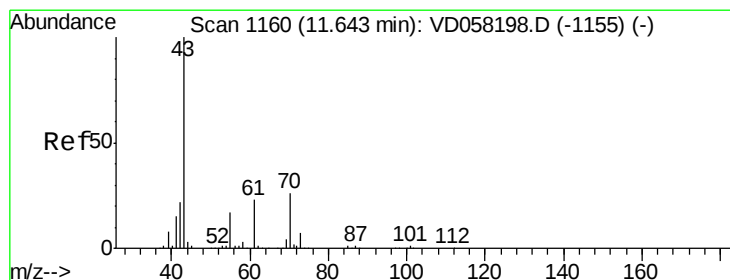
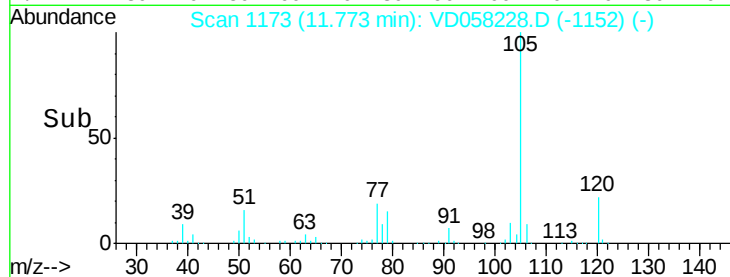
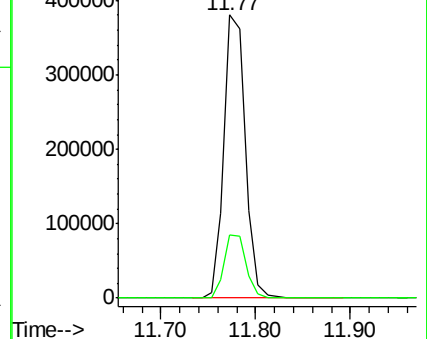
105 100

120 22.2 11.6 34.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 21.66 ug/l

RT: 11.65 min Scan# 1161

Delta R.T. 0.01 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

Tgt Ion: 43 Resp: 239981

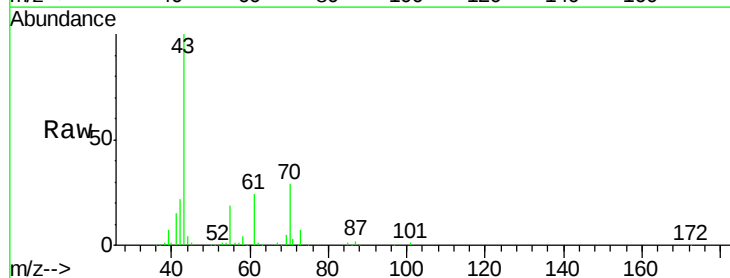
Ion Ratio Lower Upper

43 100

70 28.7 20.9 31.3

55 18.7 13.5 20.3

61 23.7 18.2 27.2

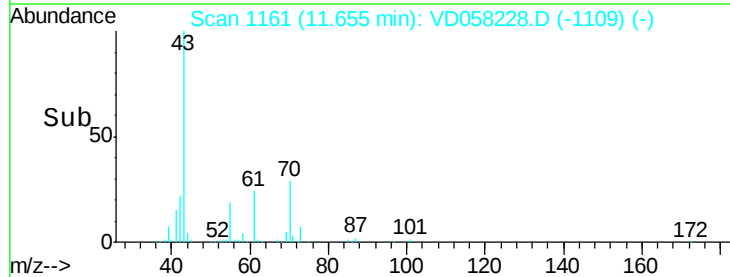
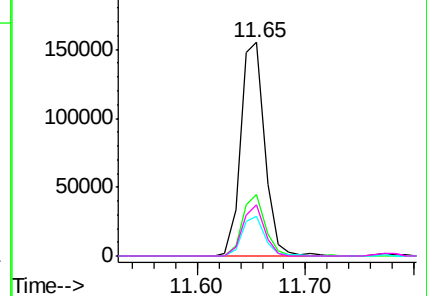


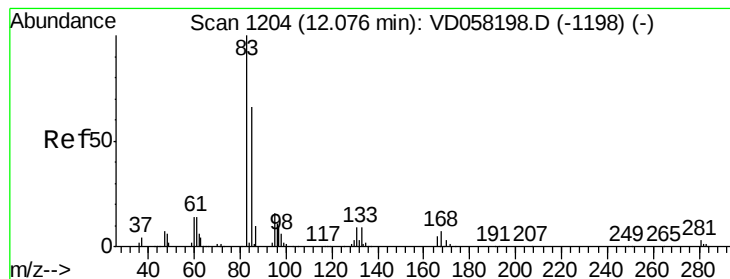
Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V





#75

1,1,2,2-Tetrachloroethane

Concen: 21.53 ug/l

RT: 12.08 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

Instrument :

MSVOA_D

ClientSampleId :

VD0620SBSD03

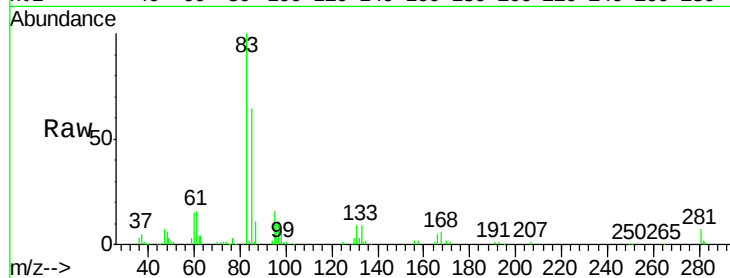
Tot Ion: 83 Resp: 143597

Ion	Ratio	Lower	Upper
83	100		
131	8.5	4.8	14.3
85	63.7	33.1	99.5

83 100

131 8.5 4.8 14.3

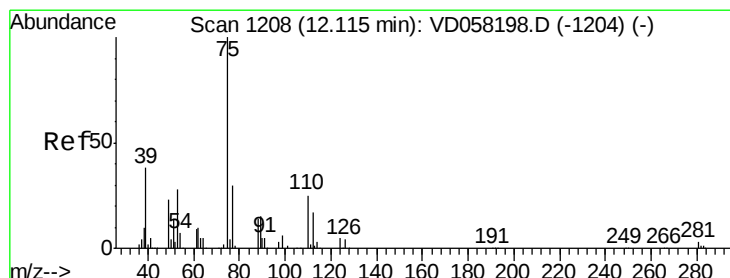
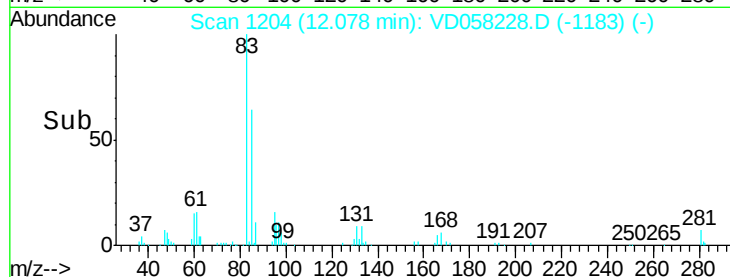
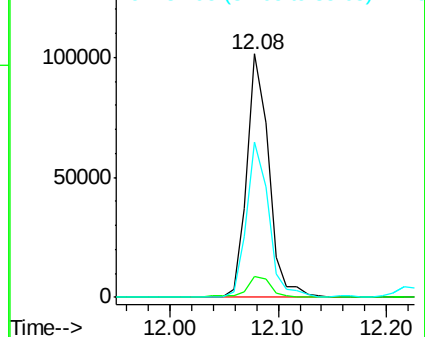
85 63.7 33.1 99.5



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: 21.81 ug/l

RT: 12.12 min Scan# 1208

Delta R.T. 0.00 min

Lab File: VD058228.D

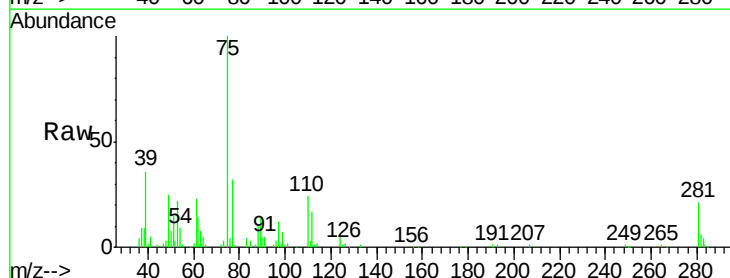
Acq: 21 Jun 2018 1:44

Tgt Ion: 75 Resp: 152587

Ion	Ratio	Lower	Upper
75	100		
77	31.6	16.0	47.9

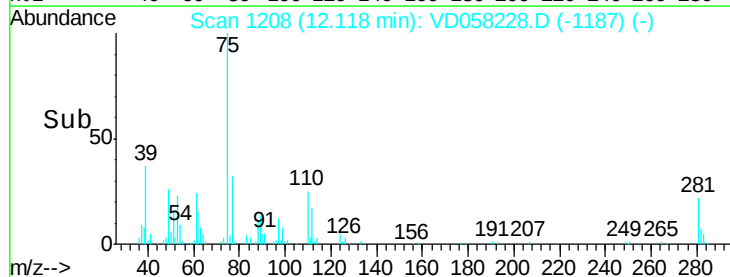
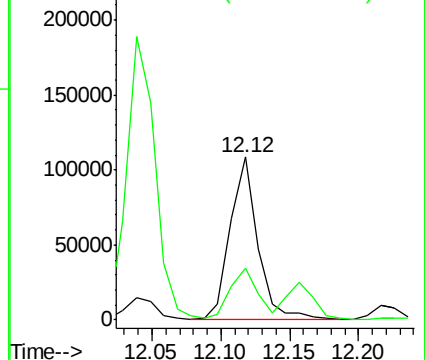
75 100

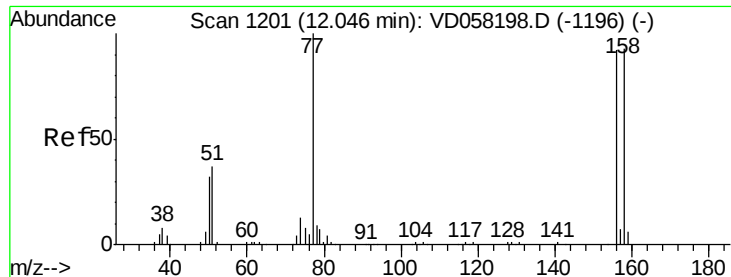
77 31.6 16.0 47.9



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 23.18 ug/l

RT: 12.05 min Scan# 1201

Delta R.T. 0.00 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

Instrument :

MSVOA_D

ClientSampleId :

VD0620SBSD03

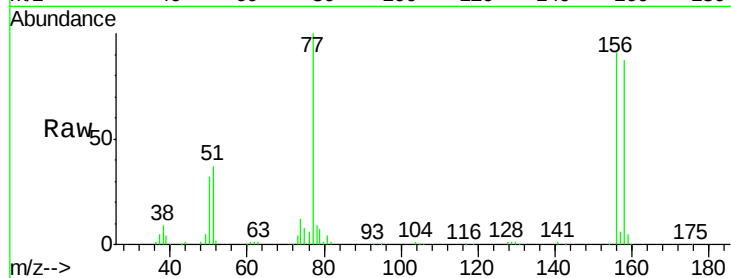
Tot Ion:156 Resp: 198898

Ion Ratio Lower Upper

156 100

77 109.7 54.5 163.6

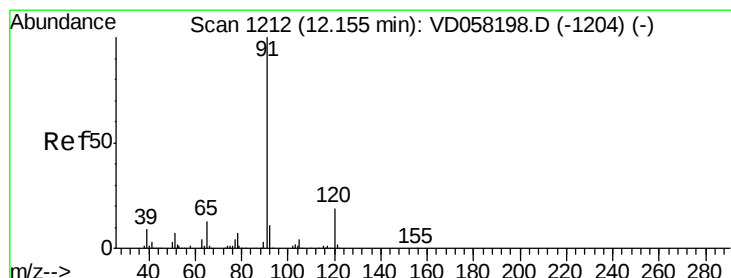
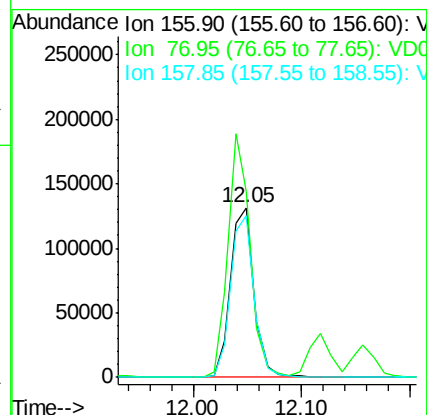
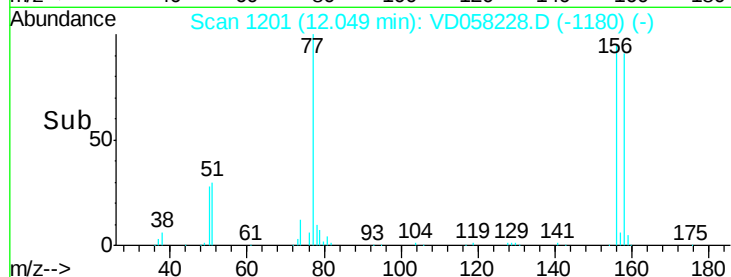
158 95.5 50.8 152.5



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: 22.34 ug/l

RT: 12.16 min Scan# 1212

Delta R.T. 0.00 min

Lab File: VD058228.D

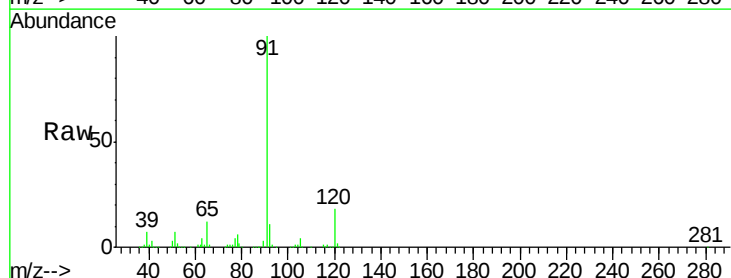
Acq: 21 Jun 2018 1:44

Tgt Ion: 91 Resp: 826894

Ion Ratio Lower Upper

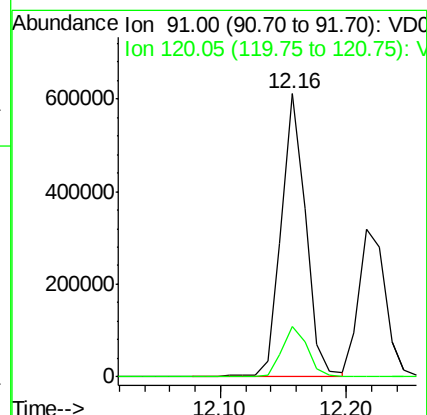
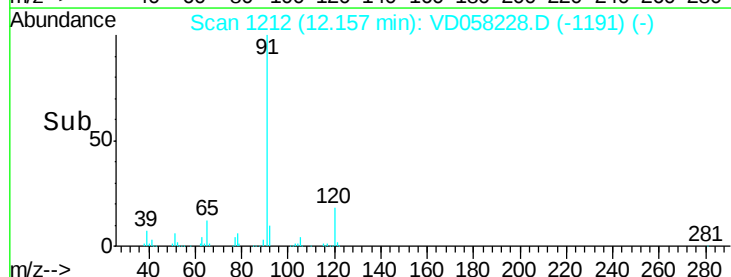
91 100

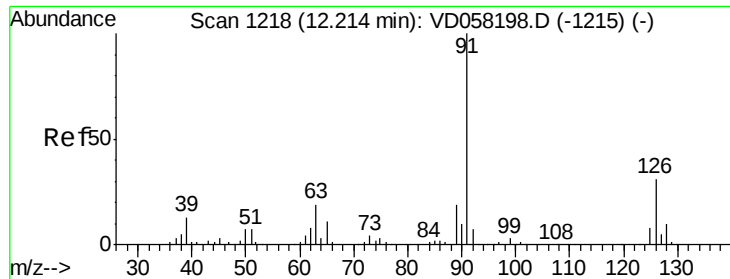
120 17.9 9.7 29.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

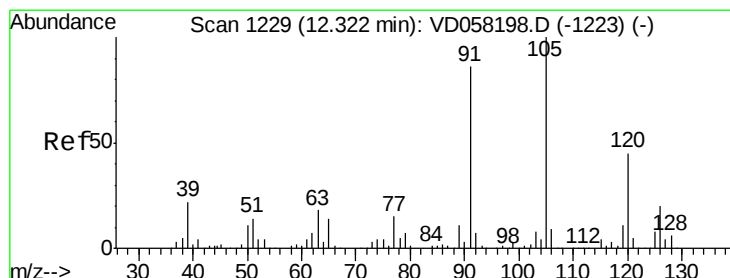
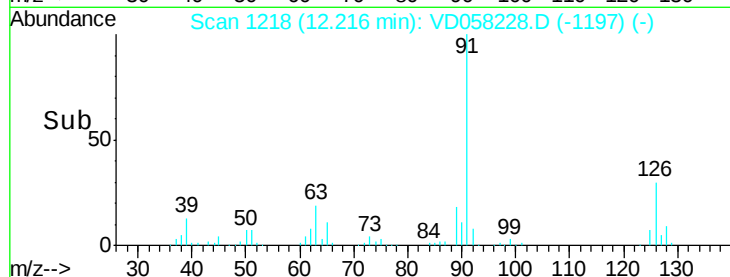
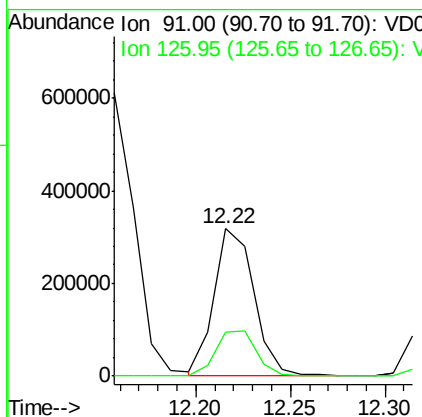
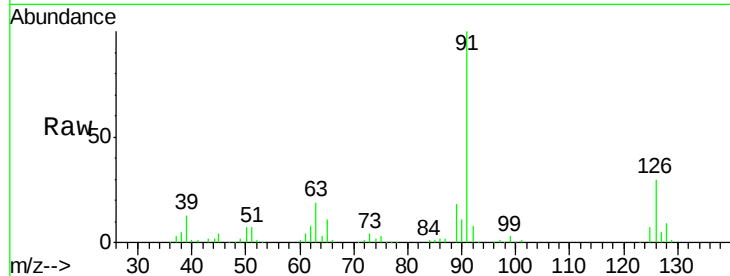




#79
 2-Chlorotoluene
 Concen: 21.66 ug/l
 RT: 12.22 min Scan# 1218
 Delta R.T. 0.00 min
 Lab File: VD058228.D
 Acq: 21 Jun 2018 1:44

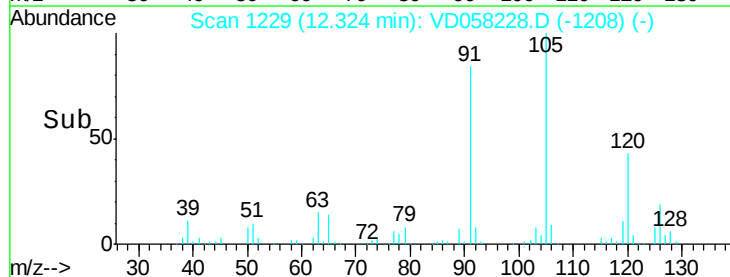
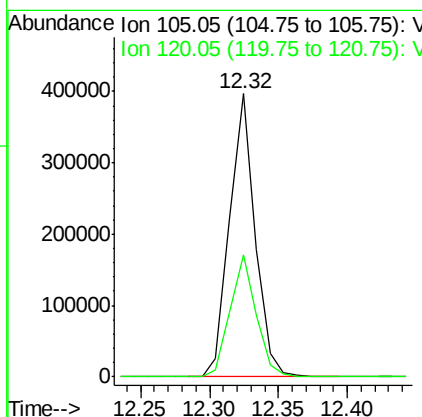
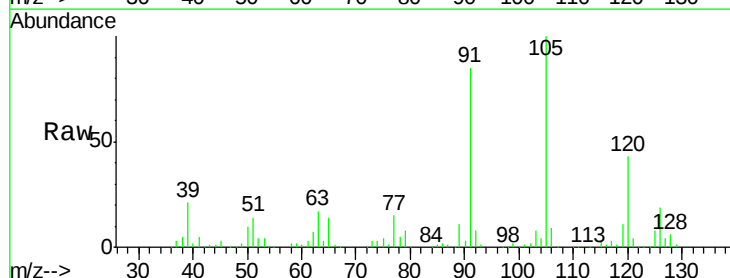
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0620SBSD03

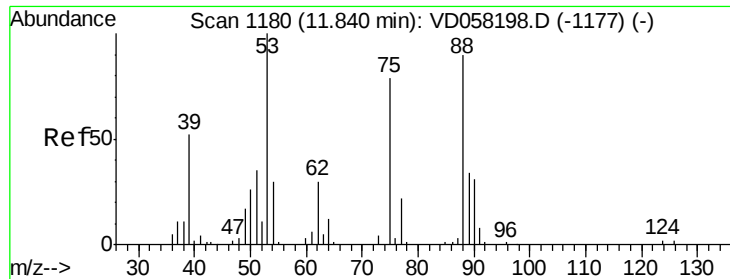
Tot Ion: 91 Resp: 458773
 Ion Ratio Lower Upper
 91 100
 126 30.2 14.9 44.5



#80
 1,3,5-Trimethylbenzene
 Concen: 22.89 ug/l
 RT: 12.32 min Scan# 1229
 Delta R.T. 0.00 min
 Lab File: VD058228.D
 Acq: 21 Jun 2018 1:44

Tgt Ion: 105 Resp: 511776
 Ion Ratio Lower Upper
 105 100
 120 43.1 22.5 67.5





#81

trans-1,4-Dichloro-2-butene

Concen: 19.05 ug/l

RT: 11.85 min Scan# 1181

Delta R.T. 0.01 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

Instrument :

MSVOA_D

ClientSampleId :

VD0620SBSD03

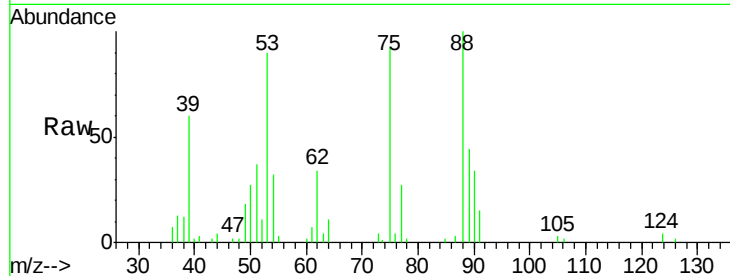
Tot Ion: 75 Resp: 32497

Ion Ratio Lower Upper

75 100

53 97.6 100.8 151.2#

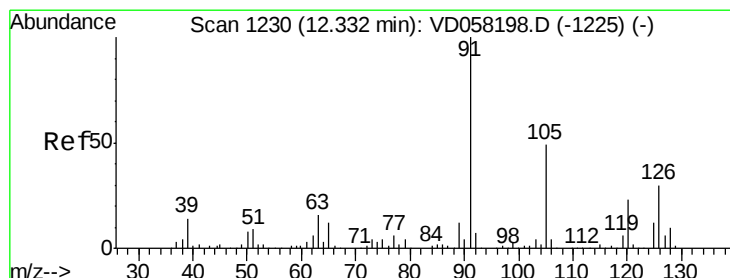
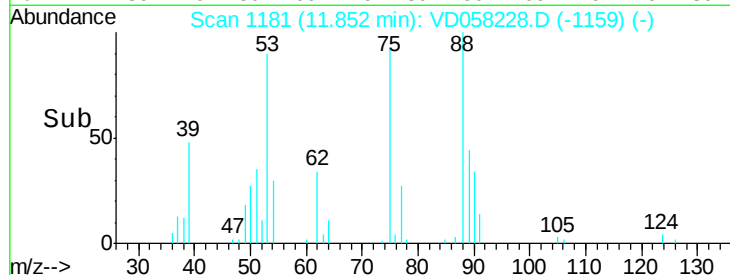
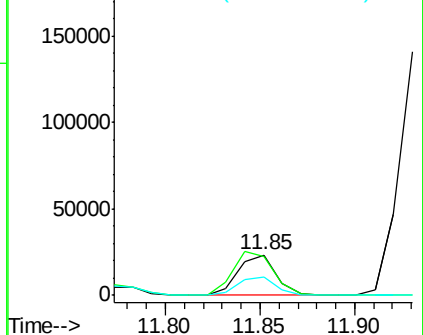
89 47.3 34.6 52.0



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: 23.45 ug/l

RT: 12.33 min Scan# 1230

Delta R.T. 0.00 min

Lab File: VD058228.D

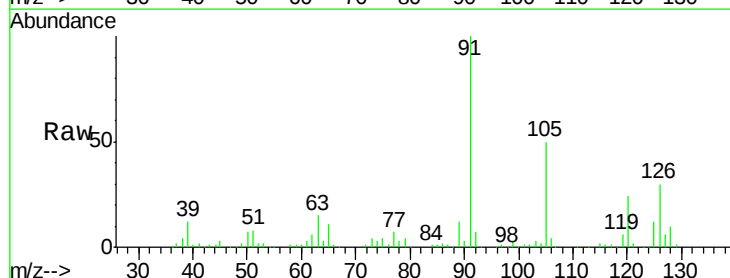
Acq: 21 Jun 2018 1:44

Tgt Ion: 91 Resp: 543689

Ion Ratio Lower Upper

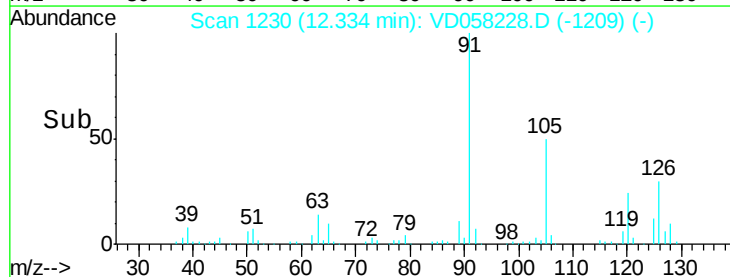
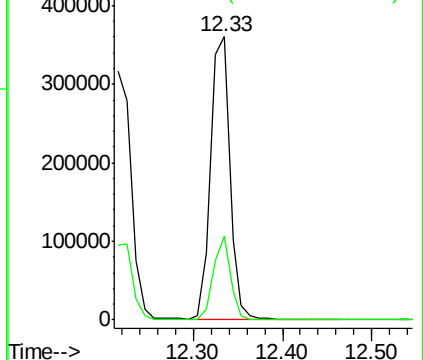
91 100

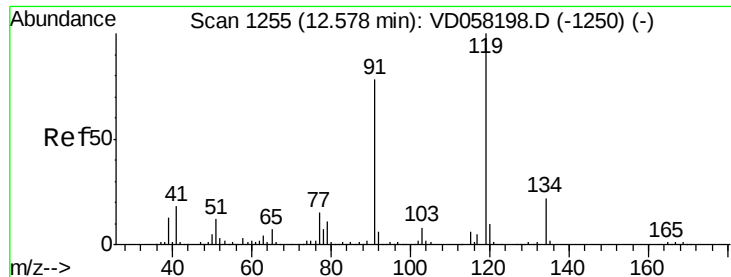
126 29.7 14.9 44.9



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V

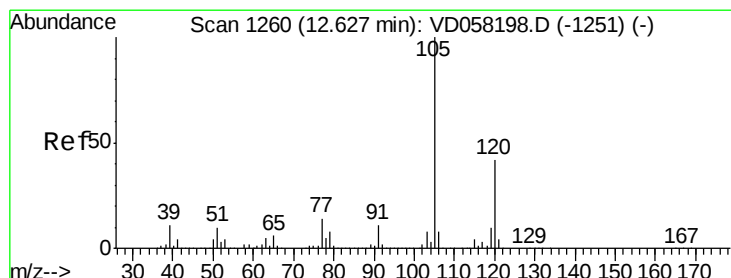
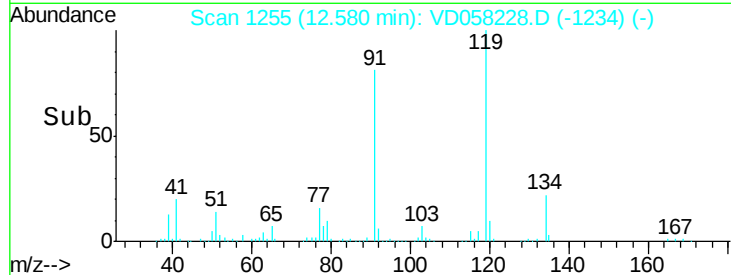
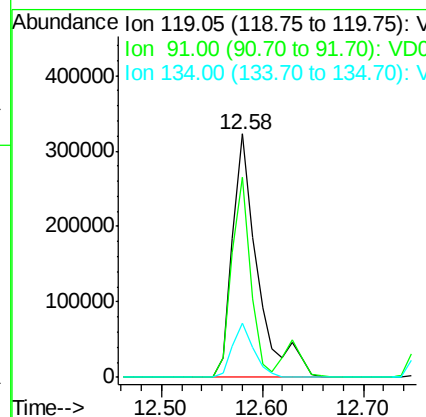
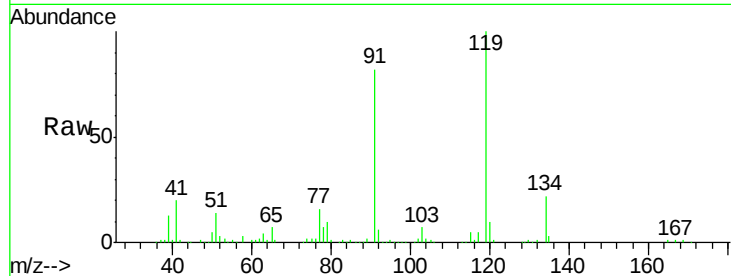




#83
 tert-Butylbenzene
 Concen: 21.86 ug/l
 RT: 12.58 min Scan# 1255
 Delta R.T. 0.00 min
 Lab File: VD058228.D
 Acq: 21 Jun 2018 1:44

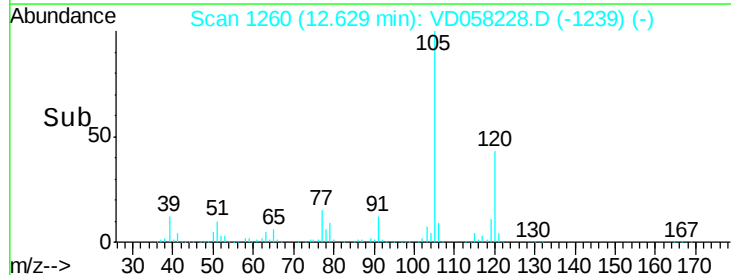
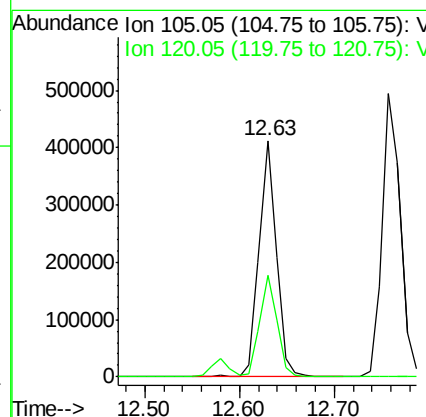
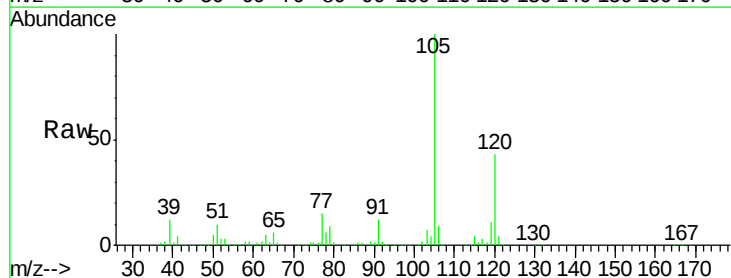
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0620SBSD03

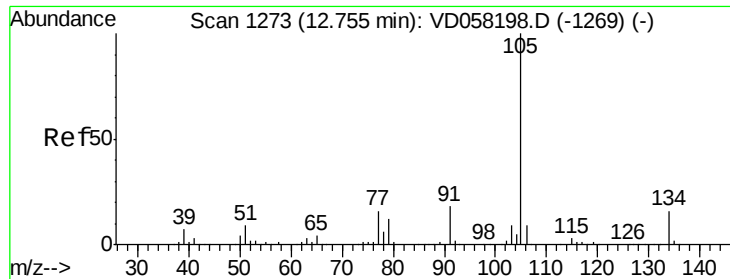
Tot Ion:119 Resp: 561888
 Ion Ratio Lower Upper
 119 100
 91 82.1 38.9 116.6
 134 22.4 11.2 33.5



#84
 1,2,4-Trimethylbenzene
 Concen: 21.72 ug/l
 RT: 12.63 min Scan# 1260
 Delta R.T. 0.00 min
 Lab File: VD058228.D
 Acq: 21 Jun 2018 1:44

Tgt Ion:105 Resp: 527715
 Ion Ratio Lower Upper
 105 100
 120 43.0 20.8 62.4





#85

sec-Butylbenzene

Concen: 22.12 ug/l

RT: 12.76 min Scan# 1273

Delta R.T. 0.00 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

Instrument :

MSVOA_D

ClientSampleID :

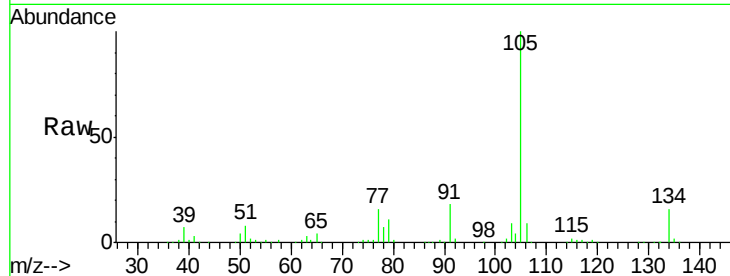
VD0620SBSD03

Tot Ion:105 Resp: 666398

Ion Ratio Lower Upper

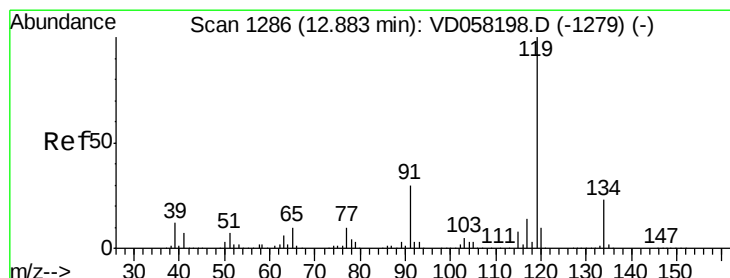
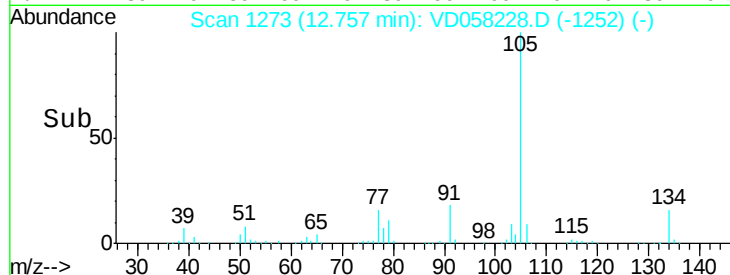
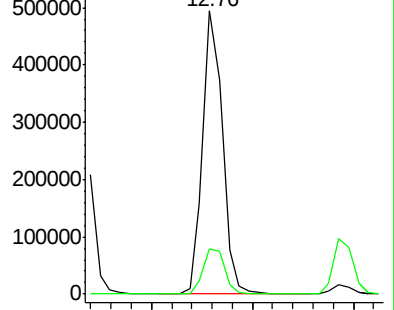
105 100

134 16.2 8.1 24.3



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#86

p-Isopropyltoluene

Concen: 21.95 ug/l

RT: 12.89 min Scan# 1286

Delta R.T. 0.00 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

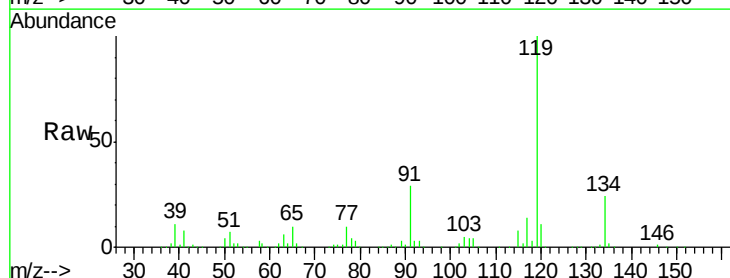
Tgt Ion:119 Resp: 535861

Ion Ratio Lower Upper

119 100

134 24.2 11.6 34.8

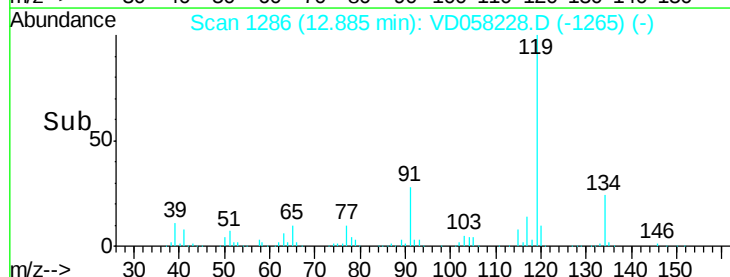
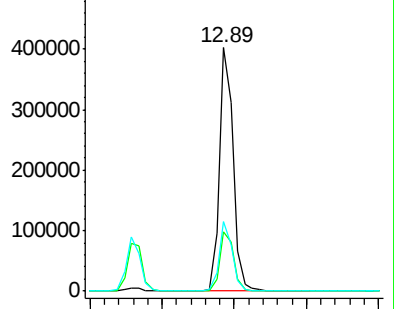
91 28.6 15.0 45.1

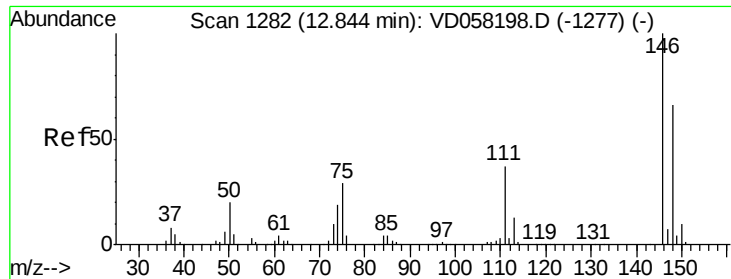


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

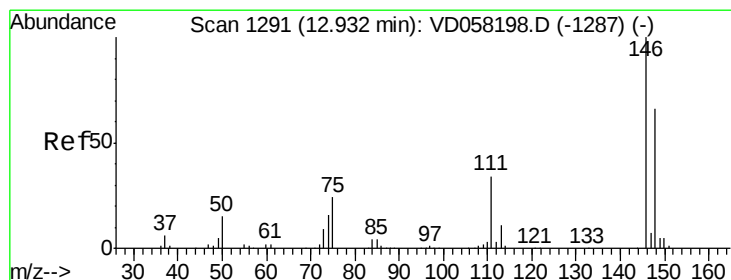
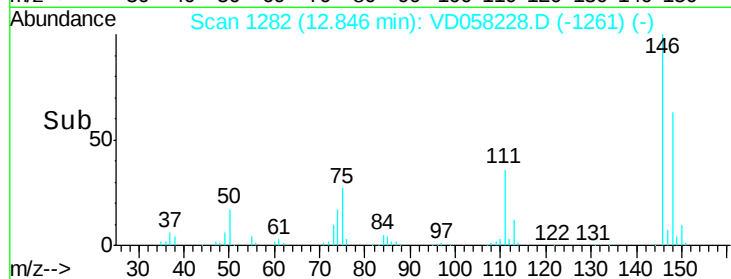
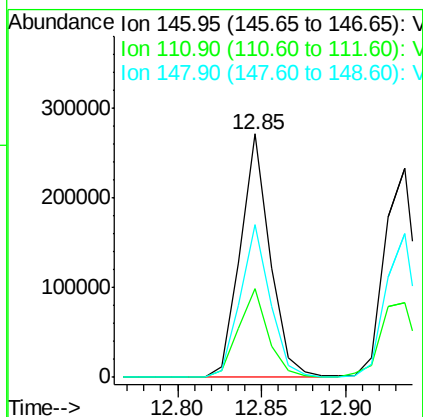
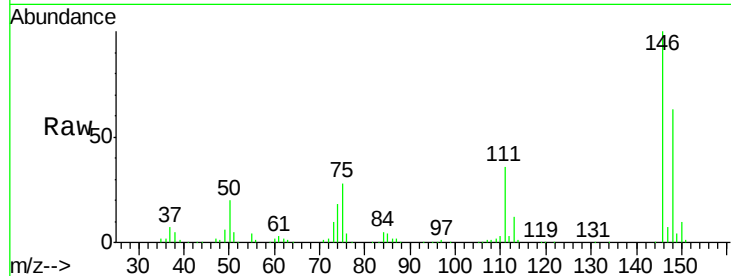




#87
 1,3-Dichlorobenzene
 Concen: 22.43 ug/l
 RT: 12.85 min Scan# 1282
 Delta R.T. 0.00 min
 Lab File: VD058228.D
 Acq: 21 Jun 2018 1:44

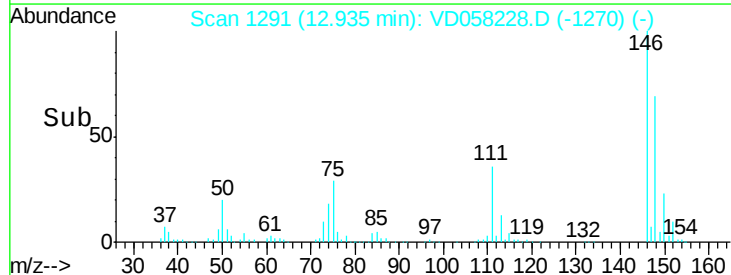
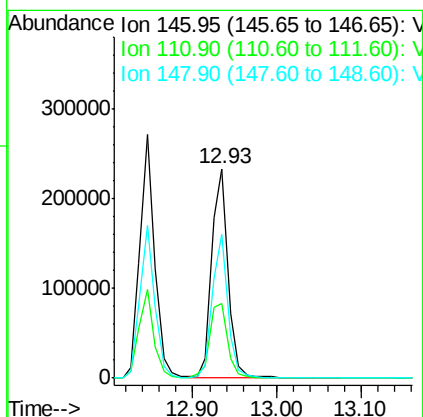
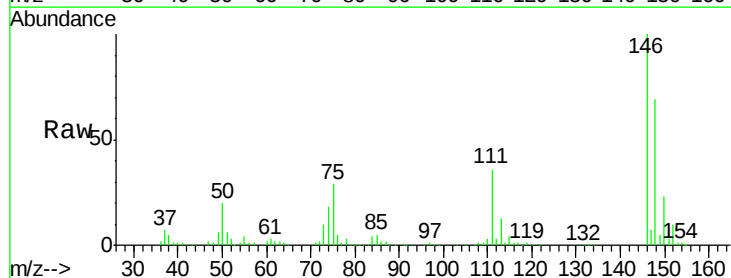
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0620SBSD03

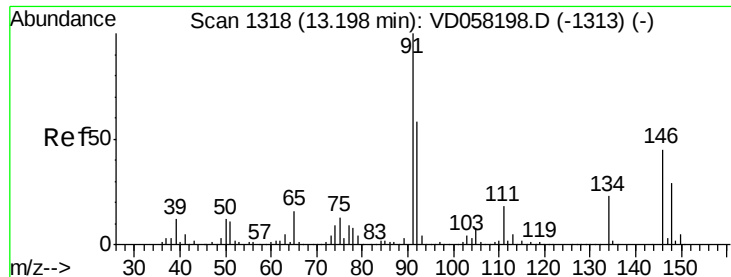
Tot Ion:146 Resp: 334548
 Ion Ratio Lower Upper
 146 100
 111 36.4 18.4 55.0
 148 62.6 32.8 98.4



#88
 1,4-Dichlorobenzene
 Concen: 21.66 ug/l
 RT: 12.93 min Scan# 1291
 Delta R.T. 0.00 min
 Lab File: VD058228.D
 Acq: 21 Jun 2018 1:44

Tgt Ion:146 Resp: 315450
 Ion Ratio Lower Upper
 146 100
 111 35.7 17.2 51.5
 148 68.5 33.1 99.3

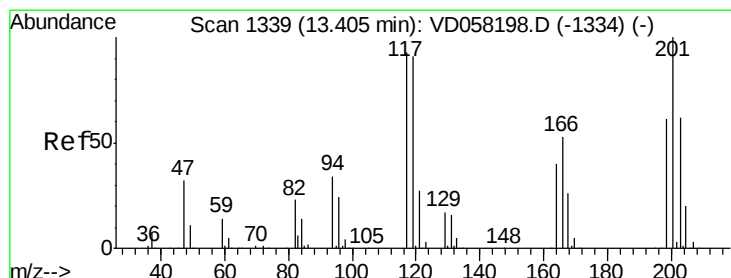
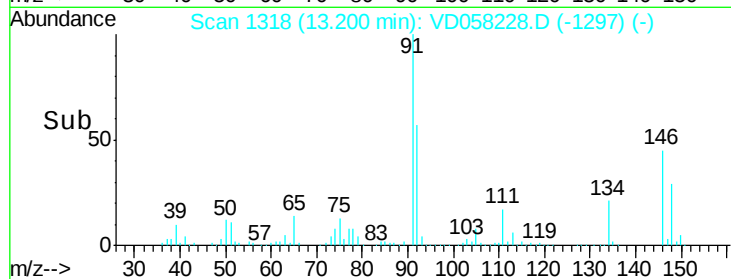
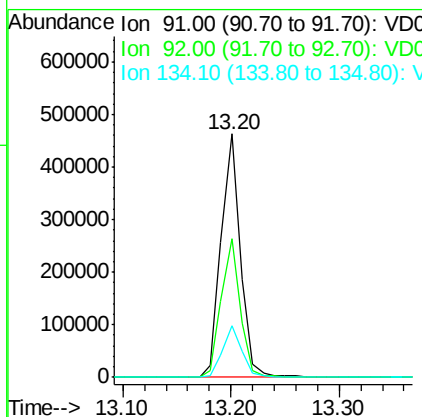
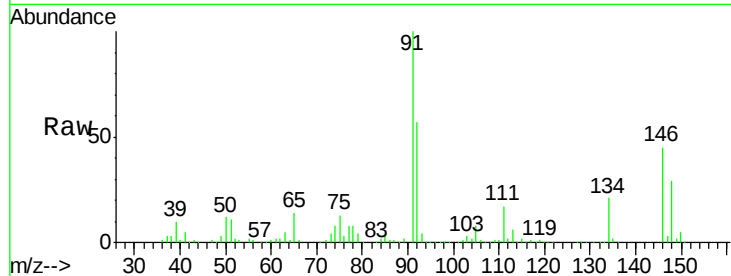




#89
n-Butylbenzene
Concen: 22.43 ug/l
RT: 13.20 min Scan# 1318
Delta R.T. 0.00 min
Lab File: VD058228.D
Acq: 21 Jun 2018 1:44

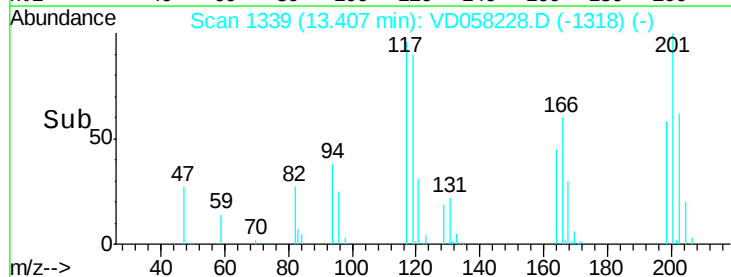
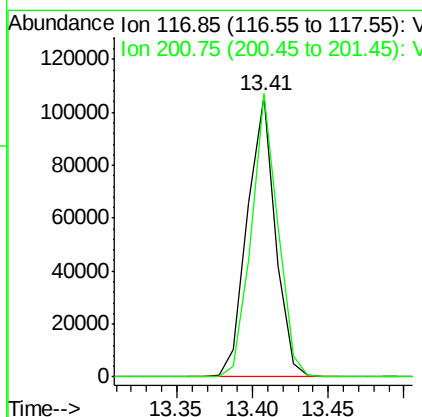
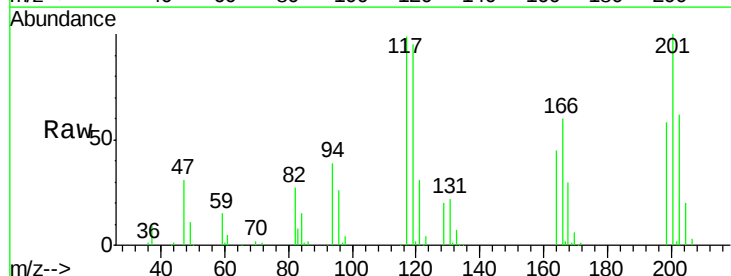
Instrument :
MSVOA_D
ClientSampleId :
VD0620SBSD03

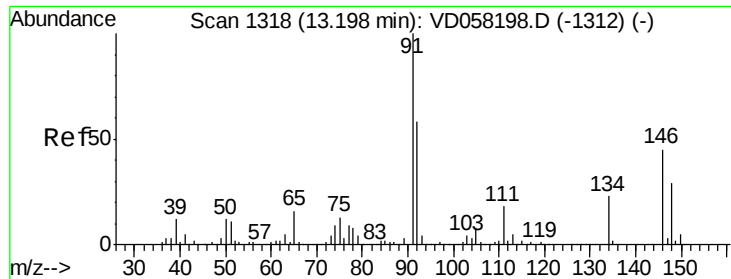
Tot Ion: 91 Resp: 575568
Ion Ratio Lower Upper
91 100
92 56.9 29.2 87.6
134 21.4 11.3 33.8



#90
Hexachloroethane
Concen: 21.50 ug/l
RT: 13.41 min Scan# 1339
Delta R.T. 0.00 min
Lab File: VD058228.D
Acq: 21 Jun 2018 1:44

Tgt Ion: 117 Resp: 136257
Ion Ratio Lower Upper
117 100
201 100.7 53.8 161.4

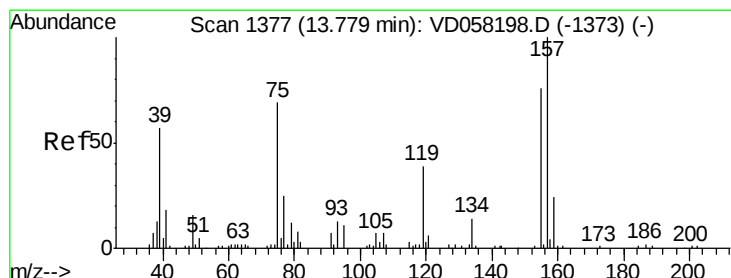
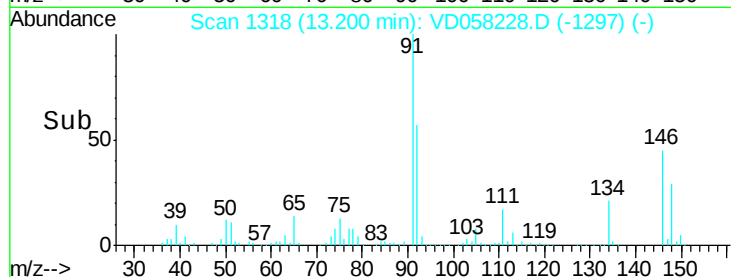
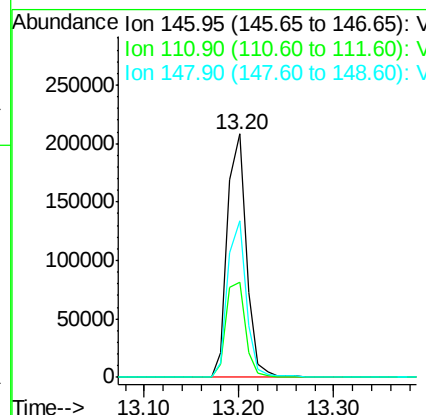
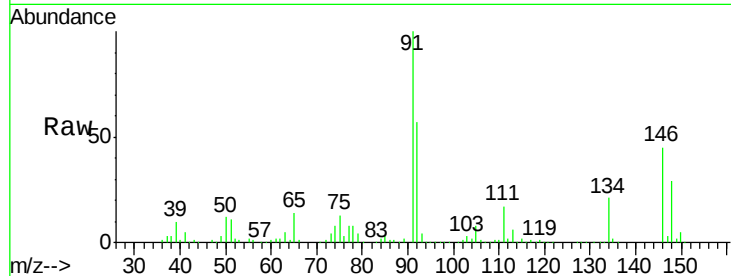




#91
 1,2-Dichlorobenzene
 Concen: 22.95 ug/l
 RT: 13.20 min Scan# 1318
 Delta R.T. 0.00 min
 Lab File: VD058228.D
 Acq: 21 Jun 2018 1:44

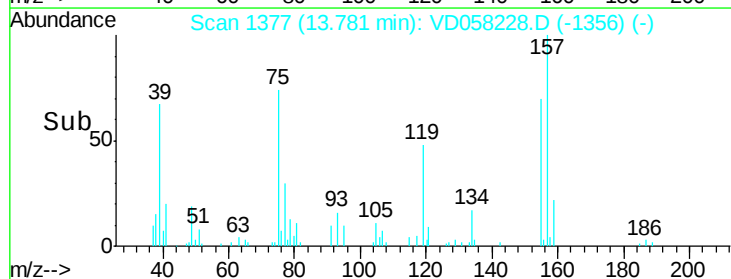
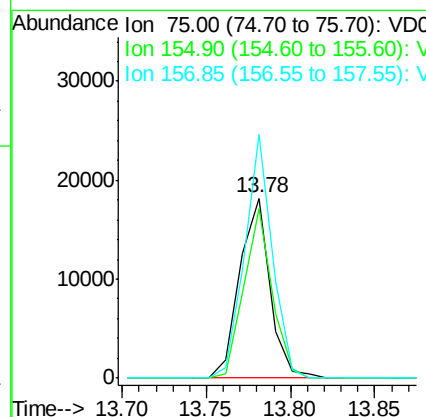
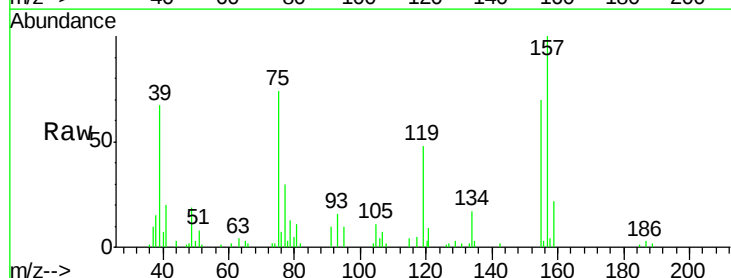
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0620SBSD03

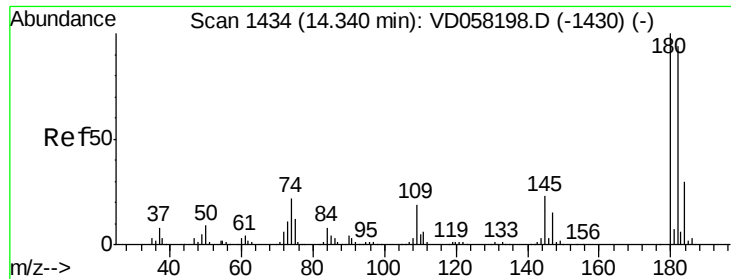
Tot Ion:146 Resp: 291315
 Ion Ratio Lower Upper
 146 100
 111 38.9 19.6 58.7
 148 64.5 32.0 96.2



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.30 ug/l
 RT: 13.78 min Scan# 1377
 Delta R.T. 0.00 min
 Lab File: VD058228.D
 Acq: 21 Jun 2018 1:44

Tgt Ion: 75 Resp: 22613
 Ion Ratio Lower Upper
 75 100
 155 94.4 54.5 163.5
 157 135.6 72.0 215.9

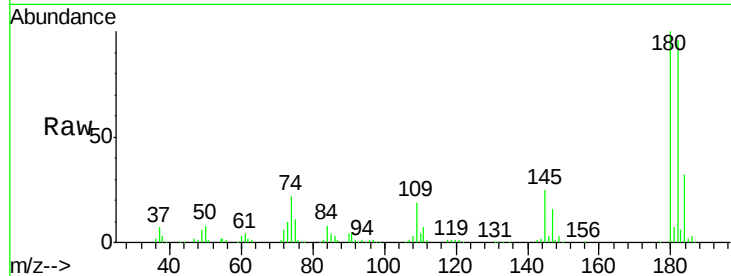




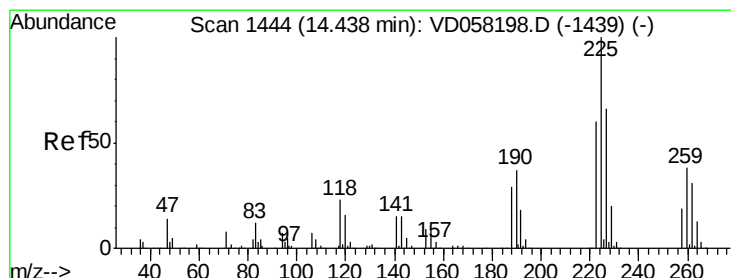
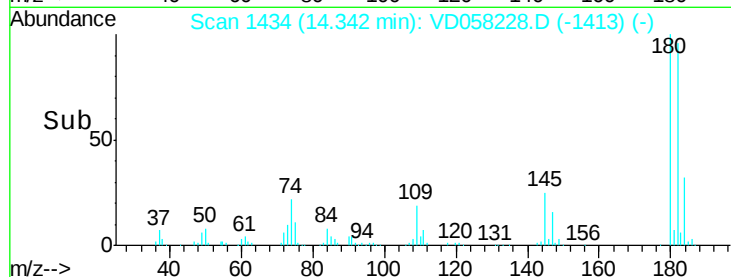
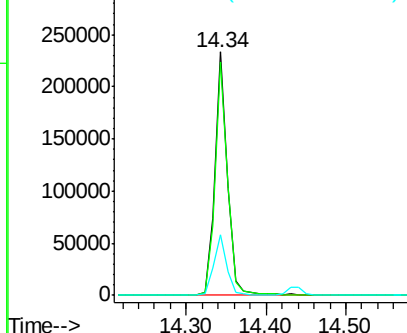
#93
 1,2,4-Trichlorobenzene
 Concen: 21.57 ug/l
 RT: 14.34 min Scan# 1434
 Delta R.T. 0.00 min
 Lab File: VD058228.D
 Acq: 21 Jun 2018 1:44

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0620SBSD03

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.1	47.1	141.3
145	24.7	11.7	35.0

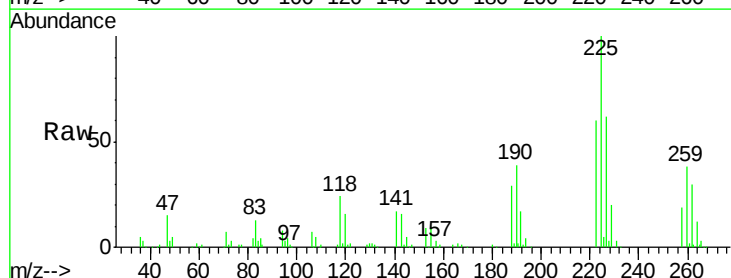


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

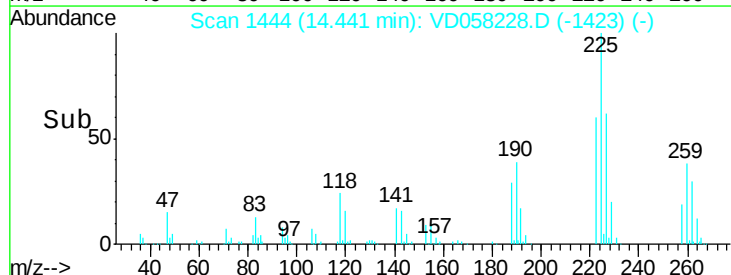
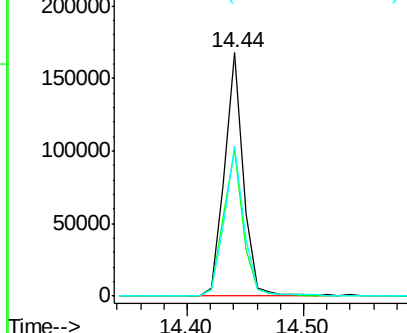


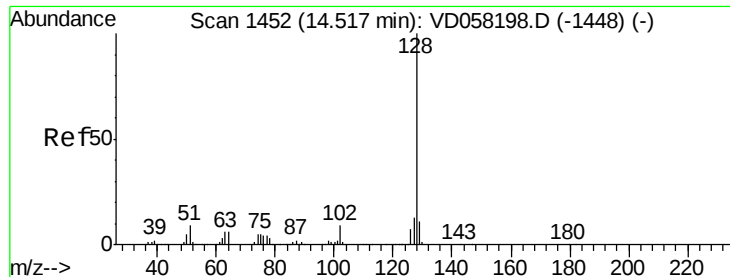
#94
 Hexachlorobutadiene
 Concen: 19.98 ug/l
 RT: 14.44 min Scan# 1444
 Delta R.T. 0.00 min
 Lab File: VD058228.D
 Acq: 21 Jun 2018 1:44

Tgt Ion	Ratio	Lower	Upper
225	100		
223	60.2	30.1	90.3
227	61.8	33.0	98.9



Abundance Ion 224.75 (224.45 to 225.45): V
 Ion 222.75 (222.45 to 223.45): V
 Ion 226.75 (226.45 to 227.45): V





#95

Naphthalene

Concen: 21.71 ug/l

RT: 14.52 min Scan# 1452

Delta R.T. 0.00 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

Instrument :

MSVOA_D

ClientSampleId :

VD0620SBSD03

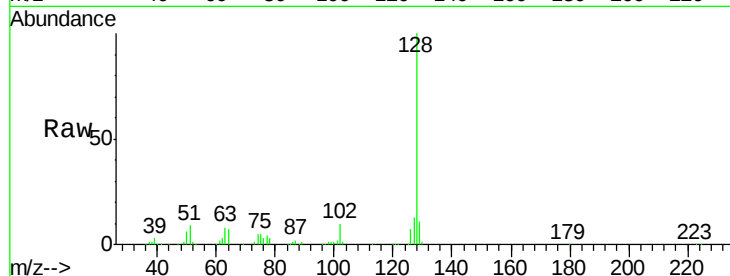
Tot Ion:128 Resp: 347243

Ion Ratio Lower Upper

128 100

127 12.6 10.0 15.0

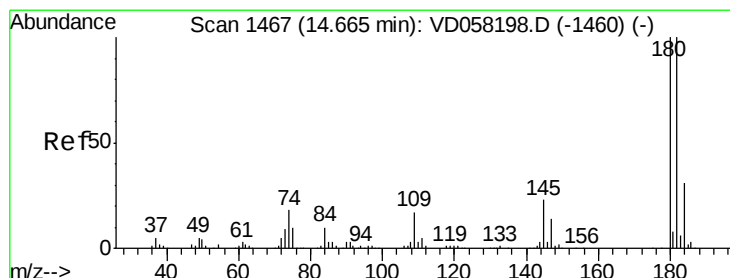
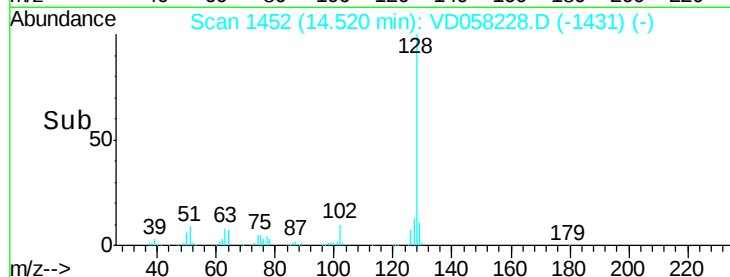
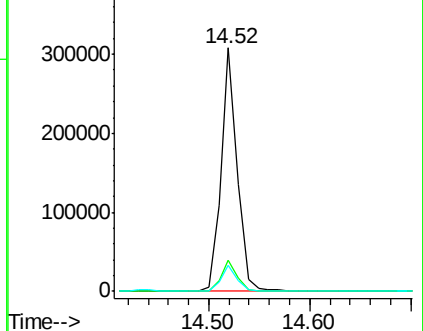
129 10.7 8.7 13.1



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: 20.52 ug/l

RT: 14.67 min Scan# 1467

Delta R.T. 0.00 min

Lab File: VD058228.D

Acq: 21 Jun 2018 1:44

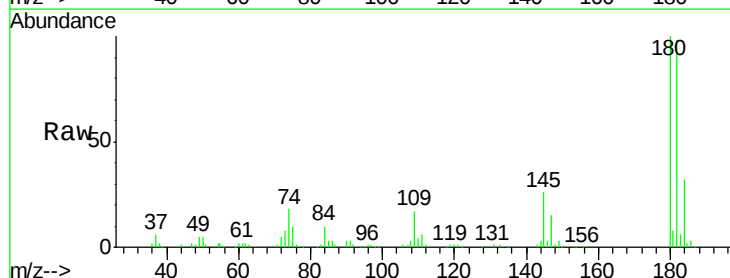
Tgt Ion:180 Resp: 218123

Ion Ratio Lower Upper

180 100

182 98.3 49.9 149.6

145 25.7 11.7 35.1



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

