

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061918\
 Data File : VD058197.D
 Acq On : 19 Jun 2018 16:31
 Operator : VA/AP
 Sample : VSTDIC020
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Quant Time: Jun 20 05:02:20 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 20 05:00:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	879436	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.69	114	1155171	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.69	117	939525	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	515046	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.01	65	180154	20.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.12%	
35) Dibromofluoromethane	5.54	113	189016	20.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.24%	
50) Toluene-d8	8.71	98	480252	21.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	43.70%	
62) 4-Bromofluorobenzene	11.93	95	191504	20.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.72%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.33	85	219047	19.35	ug/l	98
3) Chloromethane	1.47	50	98778	17.69	ug/l	# 89
4) Vinyl Chloride	1.54	62	98949	18.14	ug/l	99
5) Bromomethane	1.78	94	29613	14.34	ug/l	99
6) Chloroethane	1.87	64	27625	13.16	ug/l	92
7) Trichlorofluoromethane	2.06	101	131526	17.81	ug/l	96
8) Diethyl Ether	2.33	74	29420	20.92	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	2.54	101	87654	19.70	ug/l	96
10) Methyl Iodide	2.67	142	96429	16.90	ug/l	99
11) Tert butyl alcohol	3.27	59	31061	128.65	ug/l	# 84
12) 1,1-Dichloroethene	2.54	96	63051	18.43	ug/l	91
13) Acrolein	2.46	56	23865	78.80	ug/l	93
14) Allyl chloride	2.91	41	147361	18.44	ug/l	# 90
15) Acrylonitrile	3.34	53	85231	66.09	ug/l	89
16) Acetone	2.61	43	131604	103.77	ug/l	# 90
17) Carbon Disulfide	2.74	76	219350	17.89	ug/l	98
18) Methyl Acetate	2.93	43	53029	21.10	ug/l	99
19) Methyl tert-butyl Ether	3.39	73	168271	11.78	ug/l	100
20) Methylene Chloride	3.06	84	79965	18.79	ug/l	96
21) trans-1,2-Dichloroethene	3.37	96	74269	10.54	ug/l	88
22) Diisopropyl ether	4.06	45	609561	19.44	ug/l	97
23) Vinyl Acetate	4.00	43	1710709	104.63	ug/l	99
24) 1,1-Dichloroethane	3.95	63	328774	19.05	ug/l	100
25) 2-Butanone	4.83	43	294438	103.46	ug/l	96
26) 2,2-Dichloropropane	4.79	77	266313	18.77	ug/l	96
27) cis-1,2-Dichloroethene	4.80	96	183693	20.17	ug/l	97
28) Bromochloromethane	5.14	49	146774	19.45	ug/l	# 100
29) Tetrahydrofuran	5.18	42	153428	101.54	ug/l	99
30) Chloroform	5.31	83	347047	19.87	ug/l	100
31) Cyclohexane	5.58	56	275335	18.47	ug/l	97
32) 1,1,1-Trichloroethane	5.50	97	279840	19.14	ug/l	97
36) 1,1-Dichloropropene	5.74	75	245269	19.66	ug/l	96
37) Ethyl Acetate	4.92	43	141075	20.25	ug/l	98
38) Carbon Tetrachloride	5.72	117	234358	19.00	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.28	83	241871	19.71	ug/l	98
40) Benzene	6.01	78	589538	20.22	ug/l	98
41) Methacrylonitrile	5.12	41	65110	20.61	ug/l	89
42) 1,2-Dichloroethane	6.12	62	232131	19.63	ug/l	98
43) Isopropyl Acetate	7.62	43	190926	20.93	ug/l	# 100
44) Trichloroethene	6.98	130	182003	21.36	ug/l	99
45) 1,2-Dichloropropane	7.34	63	157634	19.46	ug/l	95
46) Dibromomethane	7.46	93	112016	21.21	ug/l	96
47) Bromodichloromethane	7.74	83	250915	20.61	ug/l	95
48) Methyl methacrylate	7.50	41	111691	19.98	ug/l	94
49) 1,4-Dioxane	7.50	88	21313	445.68	ug/l	89
51) 4-Methyl-2-Pentanone	8.60	43	619422	105.78	ug/l	99
52) Toluene	8.80	92	346092	20.67	ug/l	97
53) t-1,3-Dichloropropene	9.19	75	221453	20.90	ug/l	99
54) cis-1,3-Dichloropropene	8.36	75	259596	20.86	ug/l	96
55) 1,1,2-Trichloroethane	9.46	97	117209	21.22	ug/l	95
56) Ethyl methacrylate	9.31	69	138635	20.44	ug/l	98
57) 1,3-Dichloropropane	9.66	76	202834	21.18	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.19	63	360735	104.85	ug/l	100
59) 2-Hexanone	9.79	43	458701	107.43	ug/l	98
60) Dibromochloromethane	9.96	129	153303	19.80	ug/l	96
61) 1,2-Dibromoethane	10.10	107	130337	20.56	ug/l	98
64) Tetrachloroethene	9.52	164	160553	19.36	ug/l	89
65) Chlorobenzene	10.73	112	375165	20.10	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.85	131	145472	20.25	ug/l	98
67) Ethyl Benzene	10.86	91	666737	19.86	ug/l	99
68) m/p-Xylenes	11.01	106	447546	40.66	ug/l	100
69) o-Xylene	11.41	106	208968	19.33	ug/l	99
70) Styrene	11.44	104	355973	19.78	ug/l	96
71) Bromoform	11.60	173	112781	20.47	ug/l	96
73) Isopropylbenzene	11.77	105	636551	19.03	ug/l	99
74) N-amyl acetate	11.64	43	242156	18.48	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.08	83	141376	18.92	ug/l	98
76) 1,2,3-Trichloropropane	12.12	75	157725	20.29	ug/l	96
77) Bromobenzene	12.04	156	185250	18.65	ug/l	74
78) n-propylbenzene	12.15	91	808375	18.48	ug/l	100
79) 2-Chlorotoluene	12.21	91	477607	19.16	ug/l	99
80) 1,3,5-Trimethylbenzene	12.32	105	484666	18.41	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.84	75	37461	19.56	ug/l	93
82) 4-Chlorotoluene	12.32	91	529413	19.25	ug/l	94
83) tert-Butylbenzene	12.58	119	572176	19.33	ug/l	99
84) 1,2,4-Trimethylbenzene	12.63	105	538909	19.17	ug/l	97
85) sec-Butylbenzene	12.76	105	638915	17.86	ug/l	97
86) p-Isopropyltoluene	12.88	119	546784	19.10	ug/l	98
87) 1,3-Dichlorobenzene	12.84	146	328886	19.47	ug/l	100
88) 1,4-Dichlorobenzene	12.93	146	318744	19.26	ug/l	97
89) n-Butylbenzene	13.20	91	581030	19.50	ug/l	100
90) Hexachloroethane	13.40	117	133467	18.16	ug/l	92
91) 1,2-Dichlorobenzene	13.20	146	285215	20.54	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.78	75	22682	19.63	ug/l	86

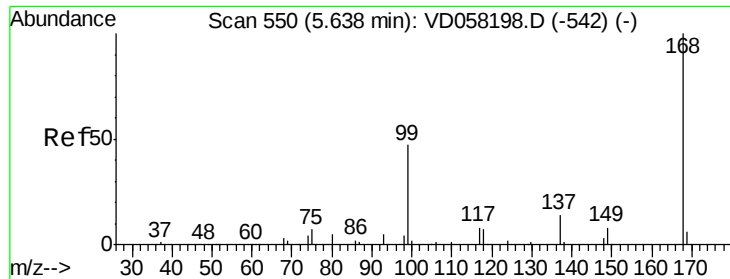
Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061918\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.34	180	268430	20.74	ug/l	98
94) Hexachlorobutadiene	14.44	225	202162	20.03	ug/l	98
95) Naphthalene	14.52	128	361340	21.27	ug/l	98
96) 1,2,3-Trichlorobenzene	14.67	180	227390	20.51	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.64 min Scan# 550

Delta R.T. 0.00 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

Instrument :

MSVOA_D

ClientSampleId :

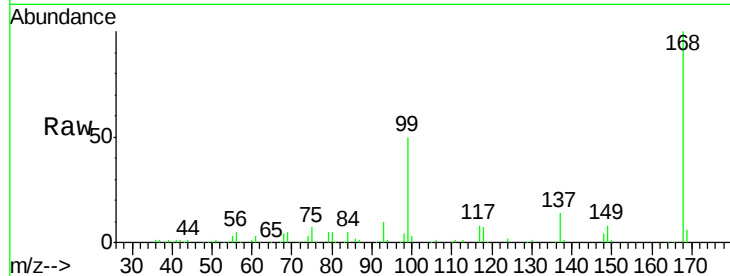
VSTDIC020

Tot Ion:168 Resp: 879436

Ion Ratio Lower Upper

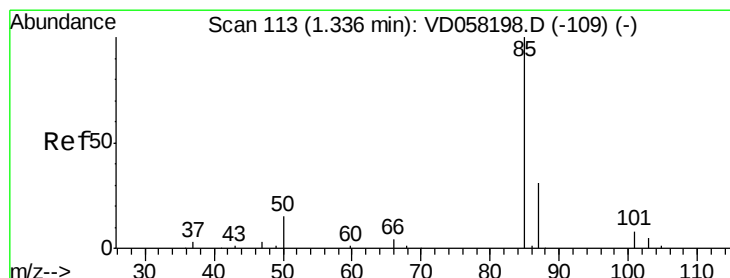
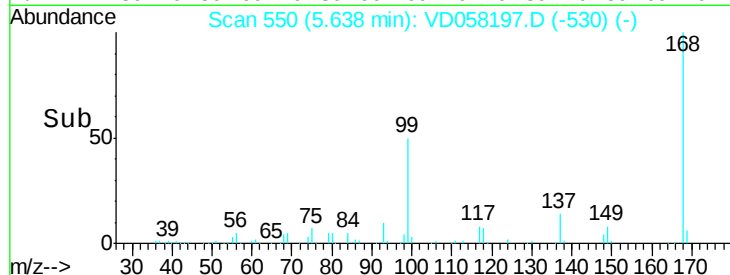
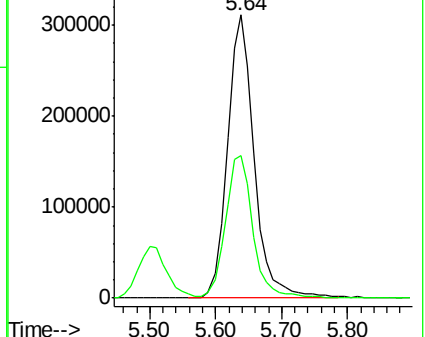
168 100

99 50.5 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 19.35 ug/l

RT: 1.33 min Scan# 112

Delta R.T. -0.01 min

Lab File: VD058197.D

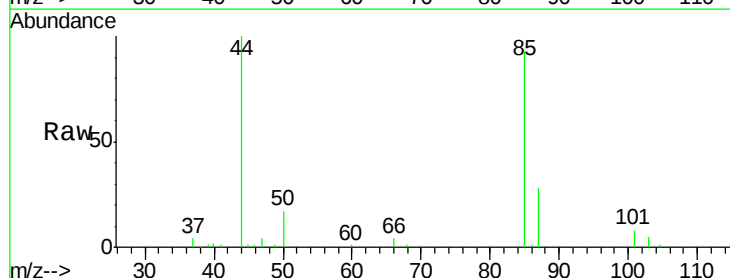
Acq: 19 Jun 2018 16:31

Tgt Ion: 85 Resp: 219047

Ion Ratio Lower Upper

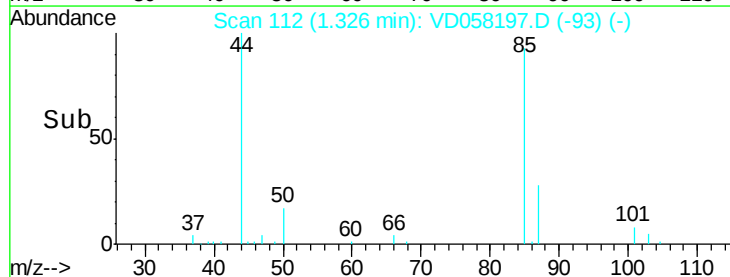
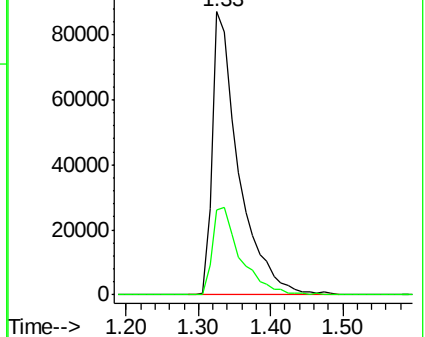
85 100

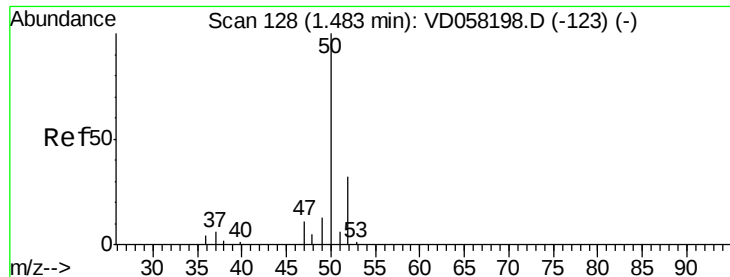
87 30.2 15.7 47.0



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 17.69 ug/l

RT: 1.47 min Scan# 127

Delta R.T. -0.01 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

Instrument :

MSVOA_D

ClientSampleId :

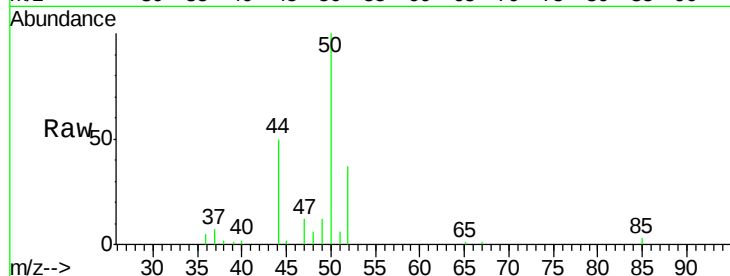
VSTDIC020

Tot Ion: 50 Resp: 98778

Ion Ratio Lower Upper

50 100

52 37.4 25.0 37.4#

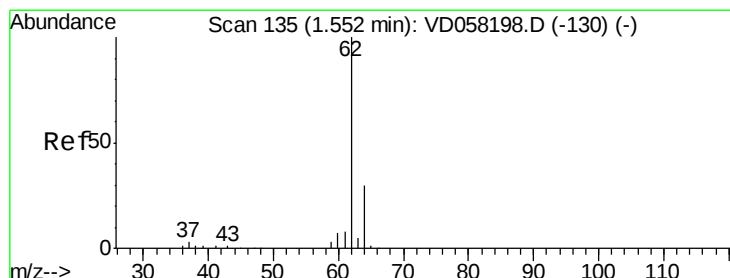
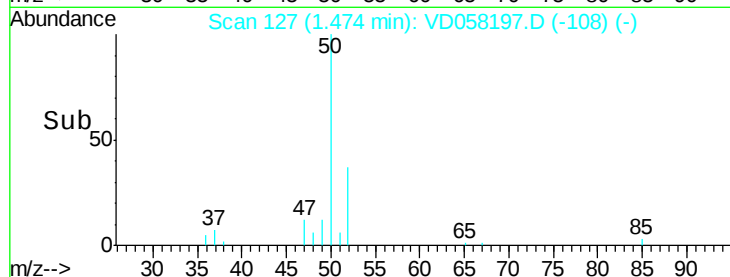


Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.47

Time-->



#4

Vinyl Chloride

Concen: 18.14 ug/l

RT: 1.54 min Scan# 134

Delta R.T. -0.01 min

Lab File: VD058197.D

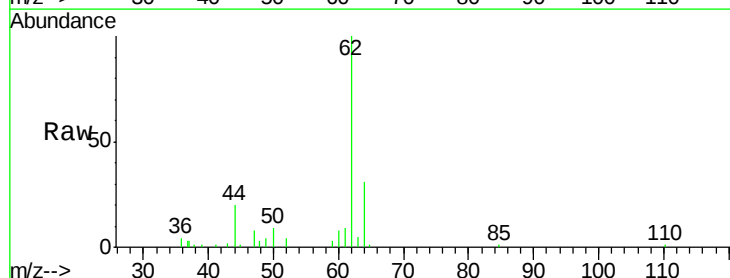
Acq: 19 Jun 2018 16:31

Tgt Ion: 62 Resp: 98949

Ion Ratio Lower Upper

62 100

64 31.3 24.4 36.6

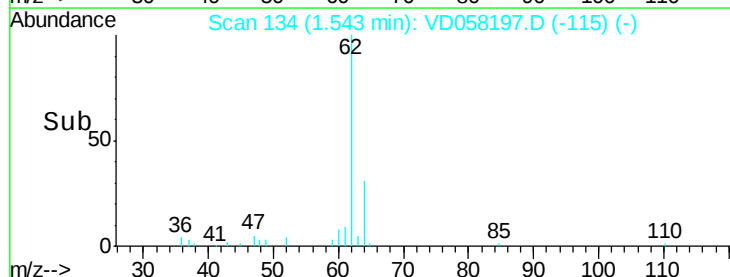


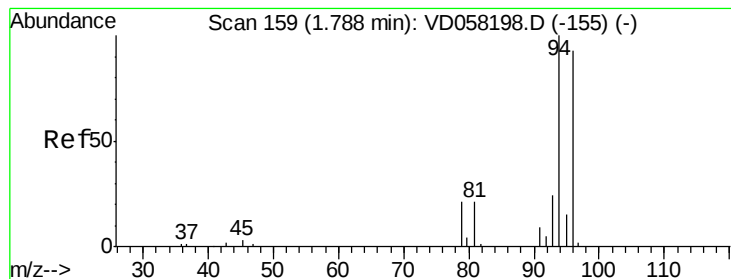
Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC

1.54

Time-->





#5

Bromomethane

Concen: 14.34 ug/l

RT: 1.78 min Scan# 158

Delta R.T. -0.01 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

Instrument :

MSVOA_D

ClientSampleId :

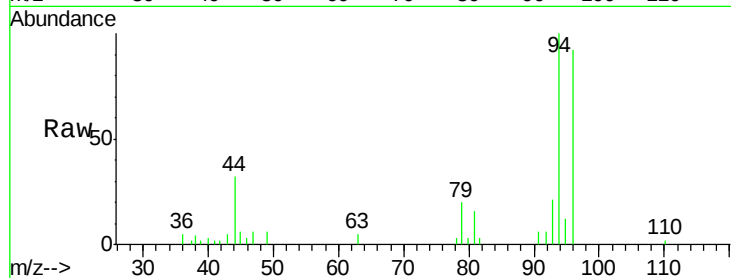
VSTDIC020

Tot Ion: 94 Resp: 29613

Ion Ratio Lower Upper

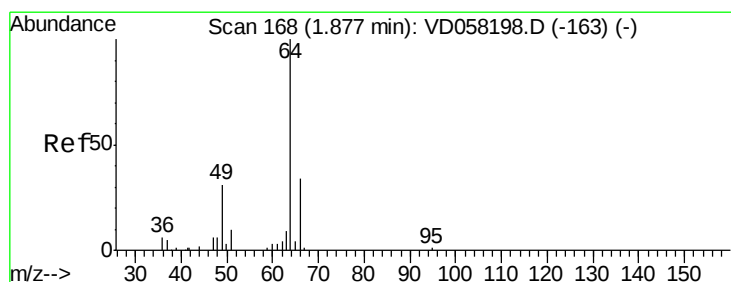
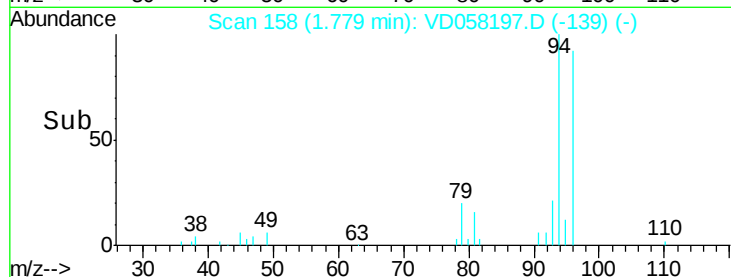
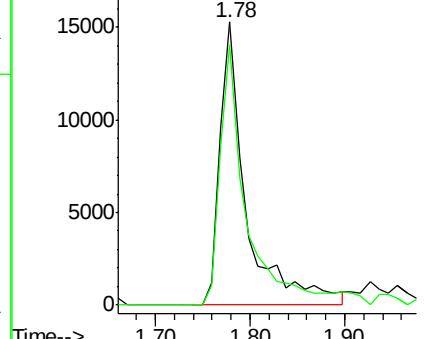
94 100

96 91.9 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: 13.16 ug/l

RT: 1.87 min Scan# 167

Delta R.T. -0.01 min

Lab File: VD058197.D

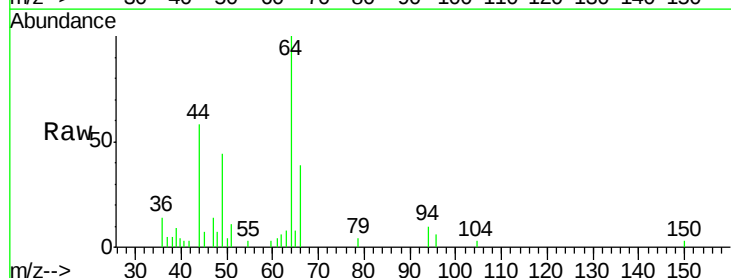
Acq: 19 Jun 2018 16:31

Tgt Ion: 64 Resp: 27625

Ion Ratio Lower Upper

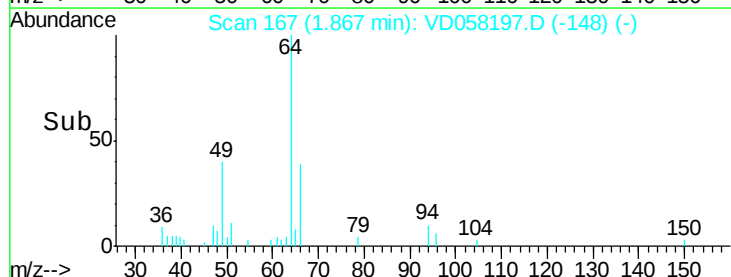
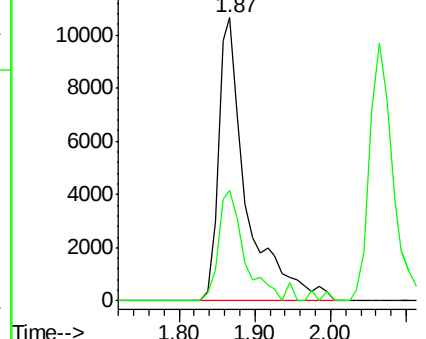
64 100

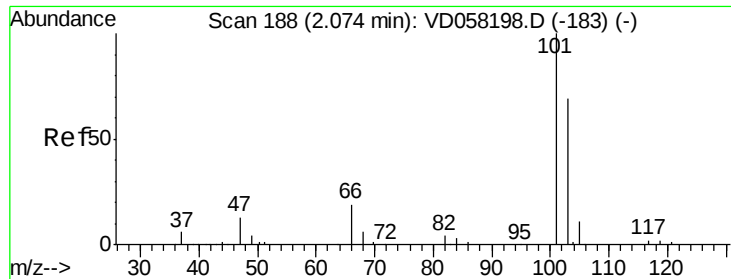
66 39.0 27.3 40.9



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



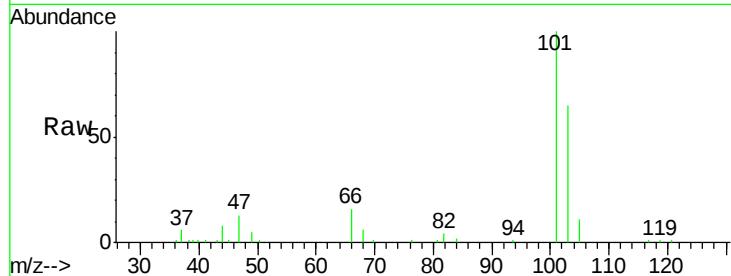


#7

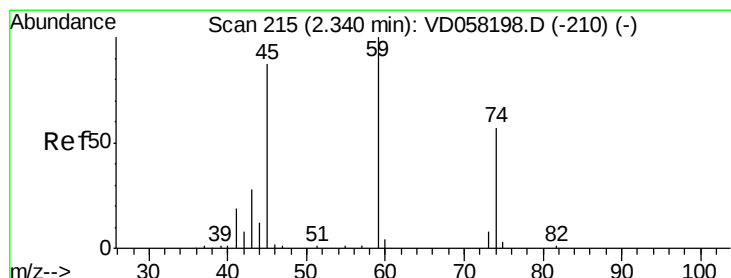
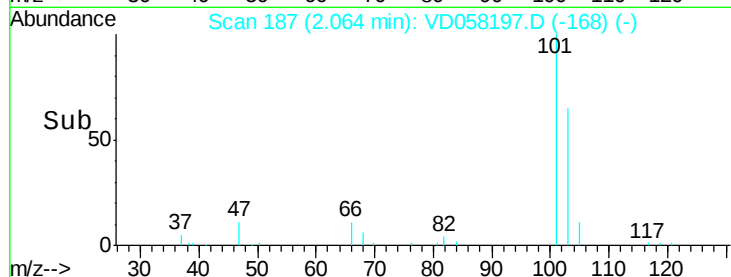
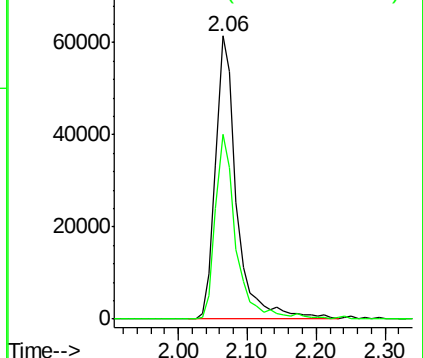
Trichlorofluoromethane
 Concen: 17.81 ug/l
 RT: 2.06 min Scan# 187
 Delta R.T. -0.01 min
 Lab File: VD058197.D
 Acq: 19 Jun 2018 16:31

Instrument :
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 VSTDIC020

Tot Ion:101 Resp: 131526
 Ion Ratio Lower Upper
 101 100
 103 65.4 55.1 82.7



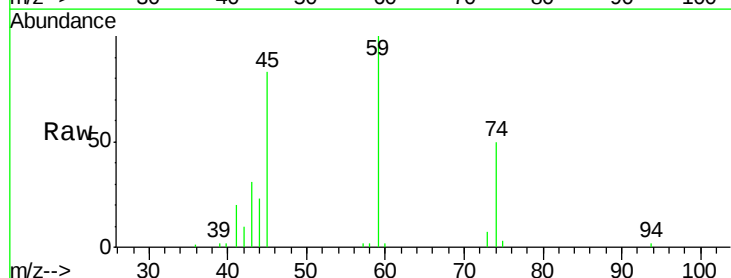
Abundance Ion 100.85 (100.55 to 101.55): V
 Ion 102.85 (102.55 to 103.55): V



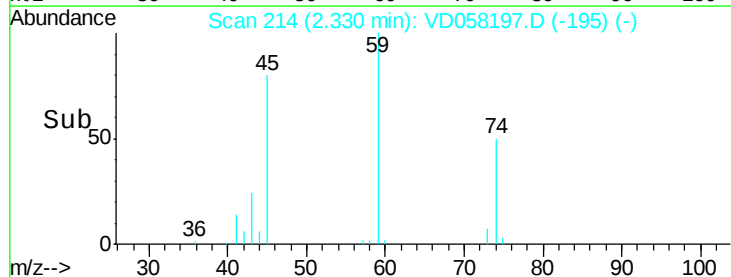
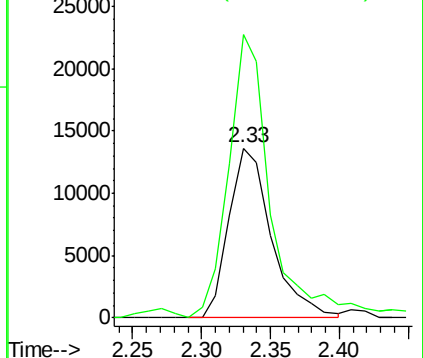
#8

Diethyl Ether
 Concen: 20.92 ug/l
 RT: 2.33 min Scan# 214
 Delta R.T. -0.01 min
 Lab File: VD058197.D
 Acq: 19 Jun 2018 16:31

Tgt Ion: 74 Resp: 29420
 Ion Ratio Lower Upper
 74 100
 45 167.0 77.5 232.6



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

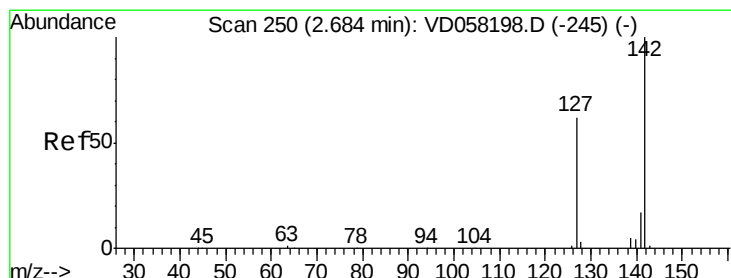
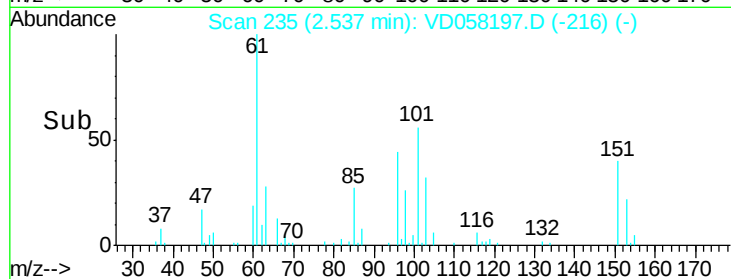
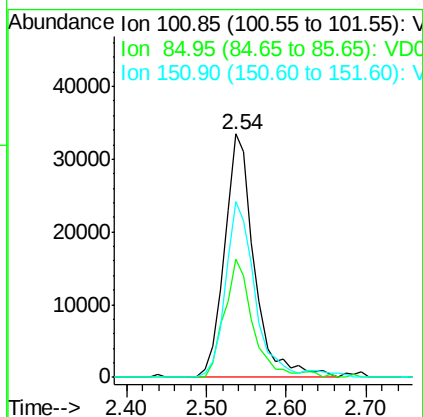
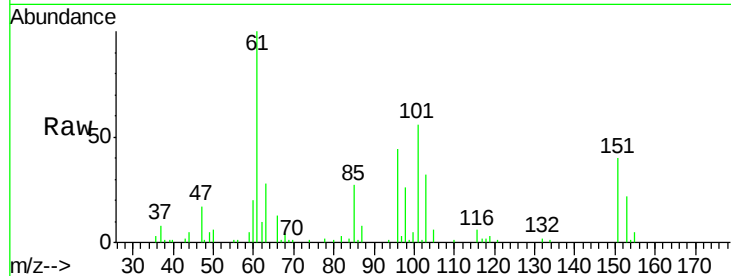




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 19.70 ug/l
 RT: 2.54 min Scan# 235
 Delta R.T. -0.01 min
 Lab File: VD058197.D
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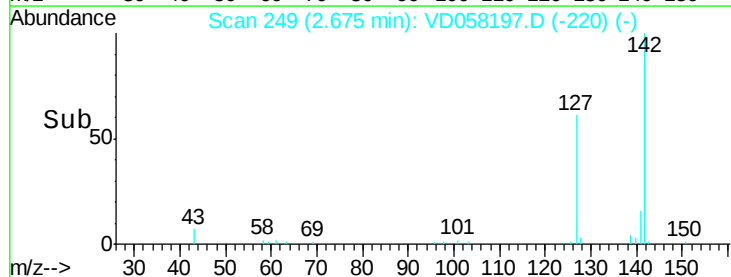
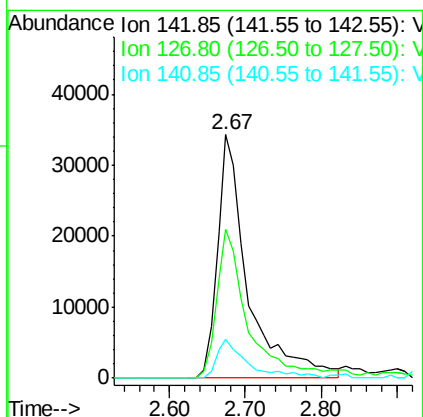
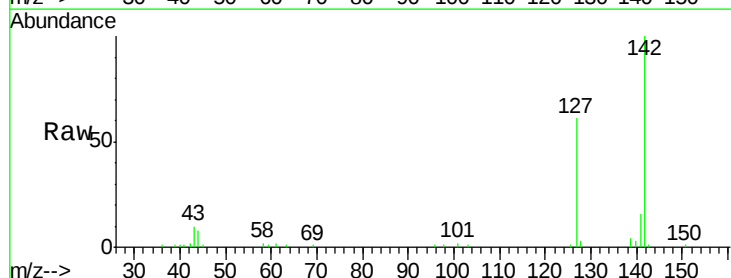
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion:101 Resp: 87654
 Ion Ratio Lower Upper
 101 100
 85 48.5 39.0 58.4
 151 72.4 61.8 92.8



#10
 Methyl Iodide
 Concen: 16.90 ug/l
 RT: 2.67 min Scan# 249
 Delta R.T. -0.01 min
 Lab File: VD058197.D
 Acq: 19 Jun 2018 16:31

Tgt Ion:142 Resp: 96429
 Ion Ratio Lower Upper
 142 100
 127 61.0 49.4 74.0
 141 16.0 13.5 20.3



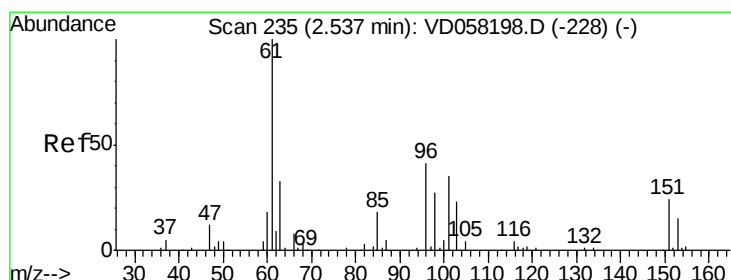
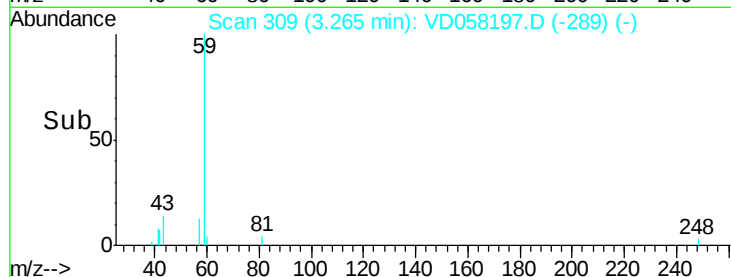
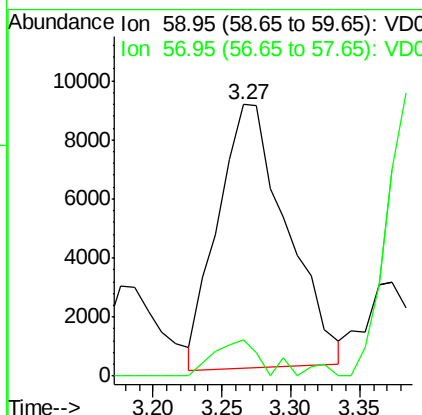
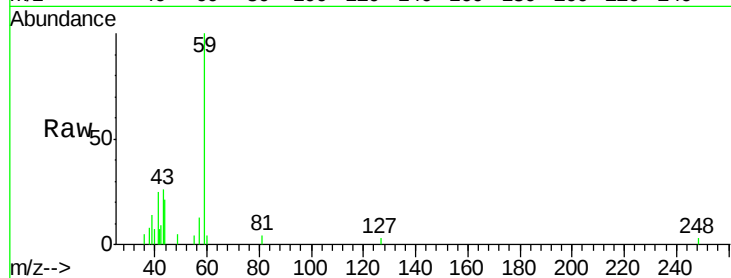


#11

Tert butyl alcohol
Concen: 128.65 ug/l
RT: 3.27 min Scan# 309
Delta R.T. 0.00 min
Lab File: VD058197.D
Acq: 19 Jun 2018 16:31

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

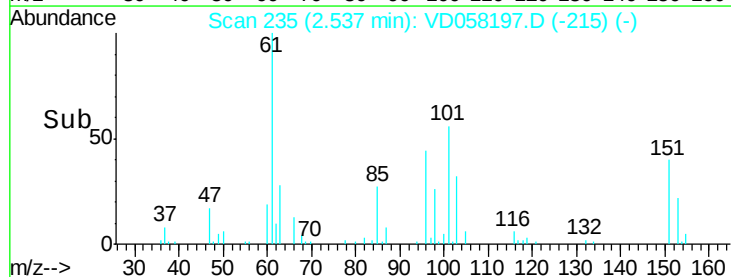
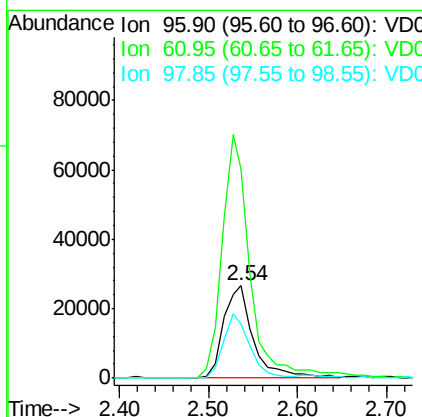
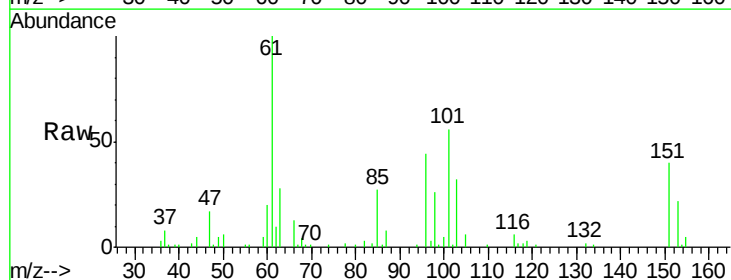
Tot Ion: 59 Resp: 31061
Ion Ratio Lower Upper
59 100
57 13.4 6.2 9.4#

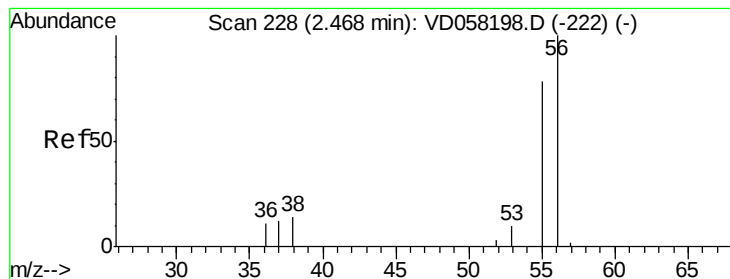


#12

1,1-Dichloroethene
Concen: 18.43 ug/l
RT: 2.54 min Scan# 235
Delta R.T. 0.00 min
Lab File: VD058197.D
Acq: 19 Jun 2018 16:31

Tgt Ion: 96 Resp: 63051
Ion Ratio Lower Upper
96 100
61 226.6 193.9 290.9
98 59.4 51.7 77.5





#13

Acrolein

Concen: 78.80 ug/l

RT: 2.46 min Scan# 227

Delta R.T. -0.01 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

Instrument :

MSVOA_D

ClientSampleId :

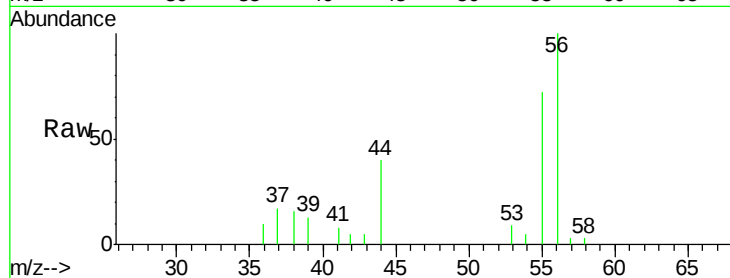
VSTDIC020

Tot Ion: 56 Resp: 23865

Ion Ratio Lower Upper

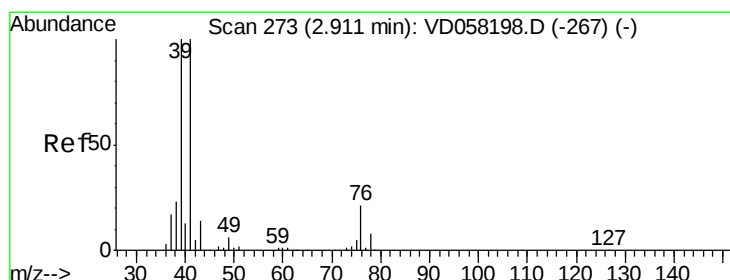
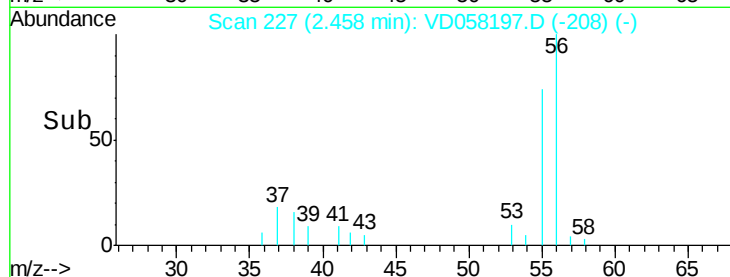
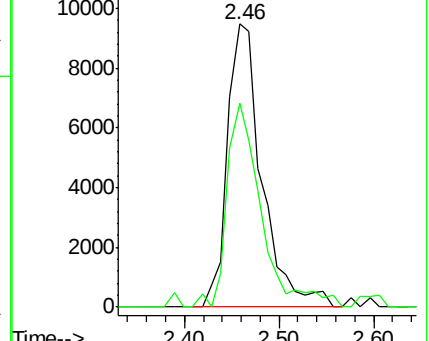
56 100

55 71.9 62.1 93.1



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 18.44 ug/l

RT: 2.91 min Scan# 273

Delta R.T. 0.00 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

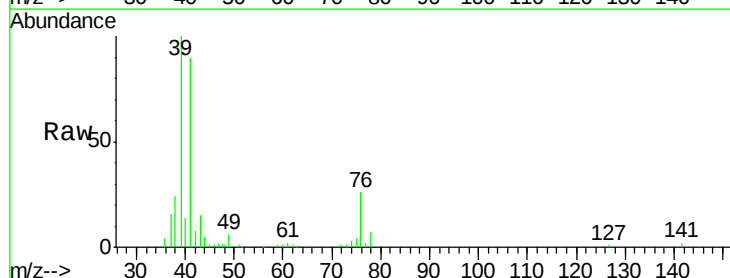
Tgt Ion: 41 Resp: 147361

Ion Ratio Lower Upper

41 100

39 110.6 80.1 120.1

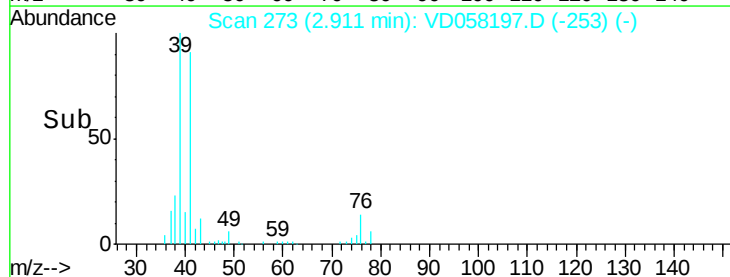
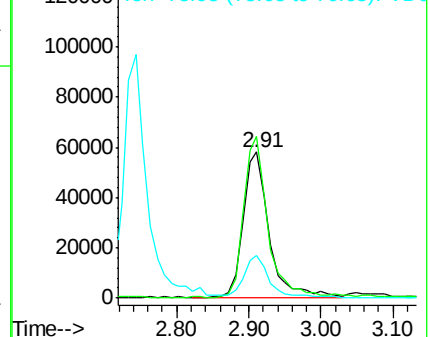
76 29.2 19.4 29.2#

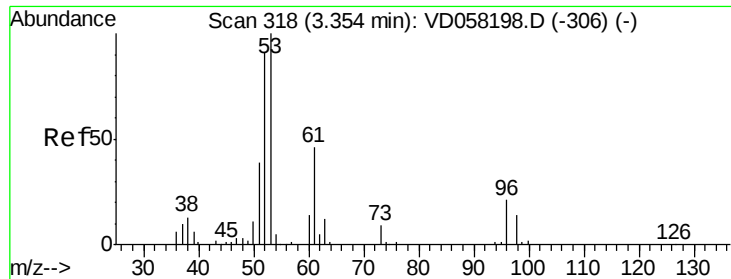


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 66.09 ug/l

RT: 3.34 min Scan# 317

Delta R.T. -0.01 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

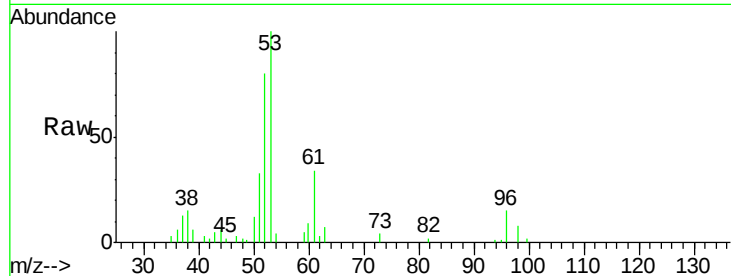
Tot Ion: 53 Resp: 85231

Ion Ratio Lower Upper

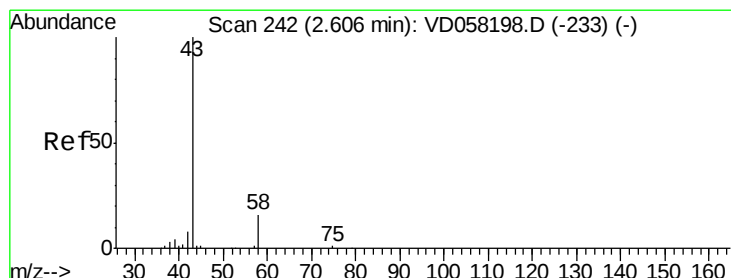
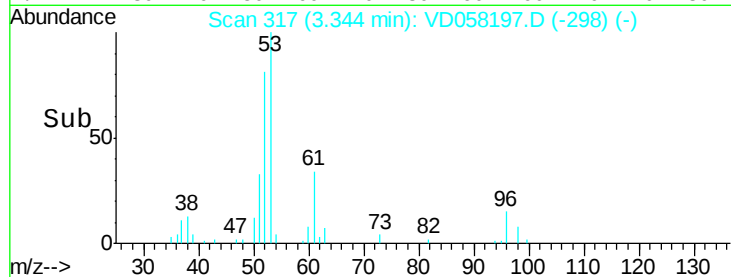
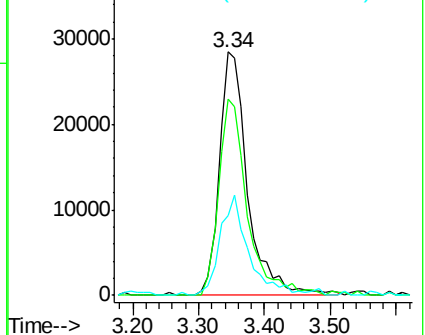
53 100

52 80.4 72.6 108.8

51 32.8 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: 103.77 ug/l

RT: 2.61 min Scan# 242

Delta R.T. 0.00 min

Lab File: VD058197.D

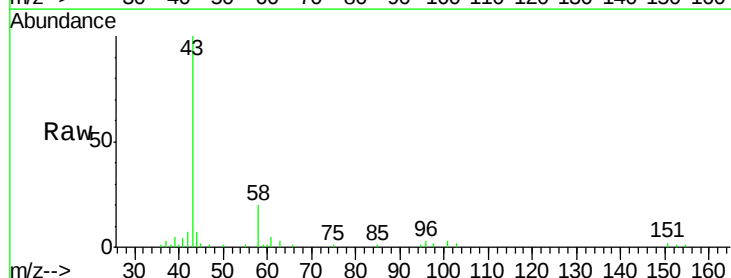
Acq: 19 Jun 2018 16:31

Tgt Ion: 43 Resp: 131604

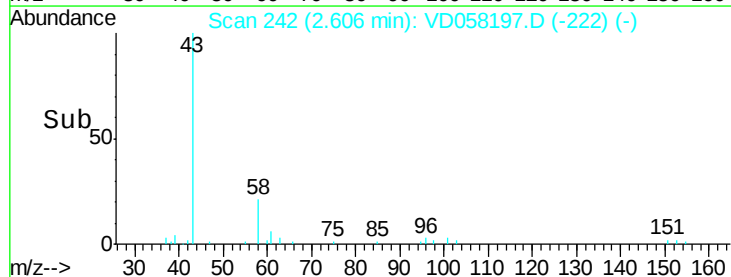
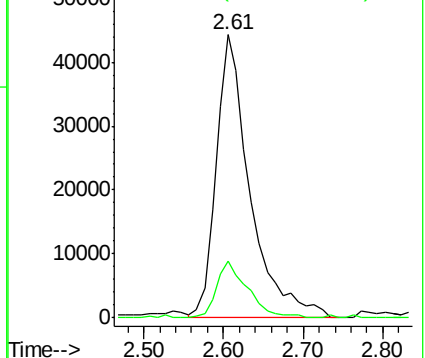
Ion Ratio Lower Upper

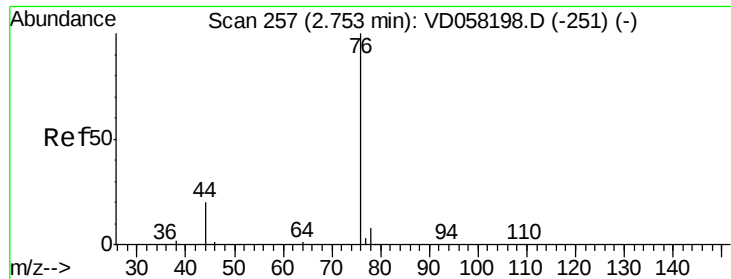
43 100

58 20.0 12.7 19.1#



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

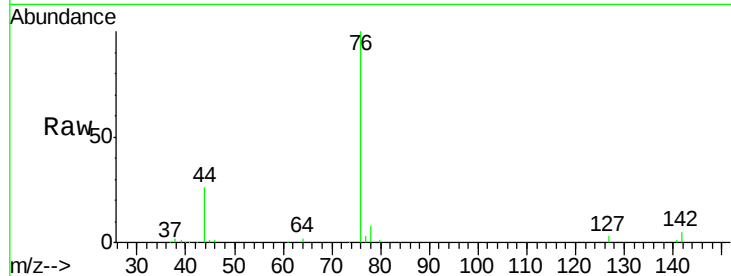




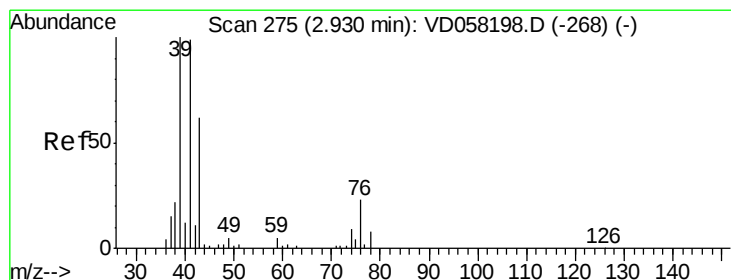
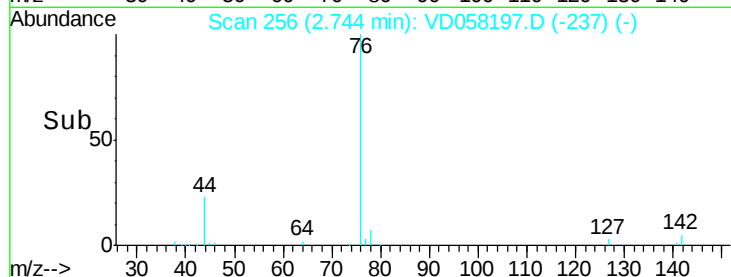
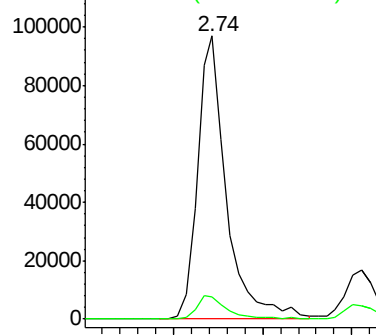
#17
Carbon Disulfide
Concen: 17.89 ug/l
RT: 2.74 min Scan# 256
Delta R.T. -0.01 min
Lab File: VD058197.D
Acq: 19 Jun 2018 16:31

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion: 76 Resp: 219350
Ion Ratio Lower Upper
76 100
78 7.8 6.8 10.2

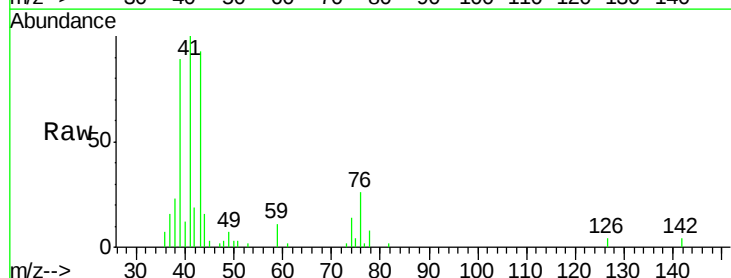


Abundance Ion 75.85 (75.55 to 76.55): VDC
Ion 77.85 (77.55 to 78.55): VDC

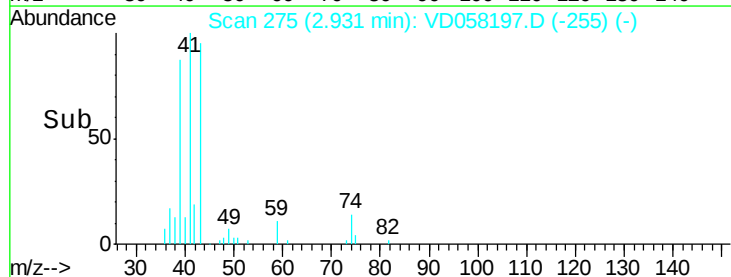
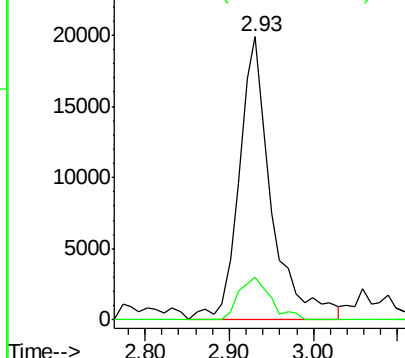


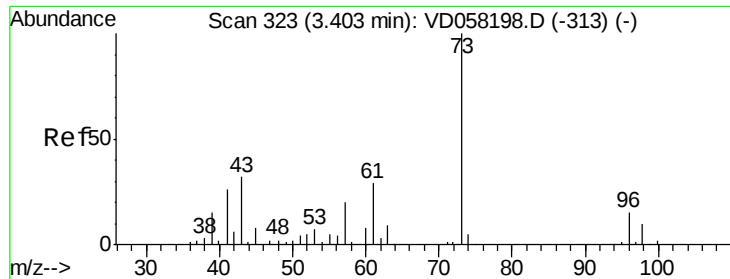
#18
Methyl Acetate
Concen: 21.10 ug/l
RT: 2.93 min Scan# 275
Delta R.T. 0.00 min
Lab File: VD058197.D
Acq: 19 Jun 2018 16:31

Tgt Ion: 43 Resp: 53029
Ion Ratio Lower Upper
43 100
74 15.1 11.7 17.5



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

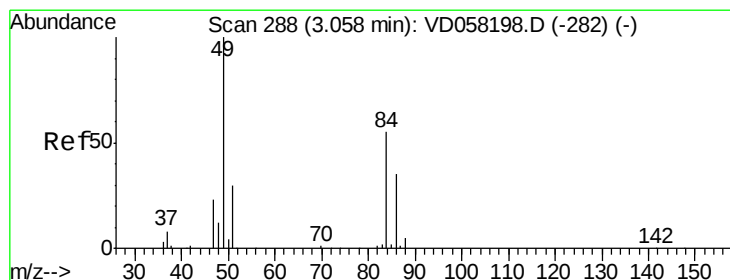
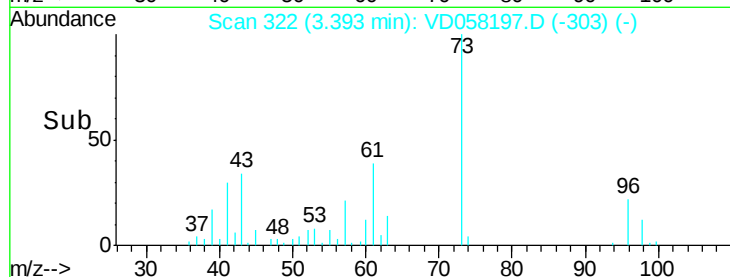
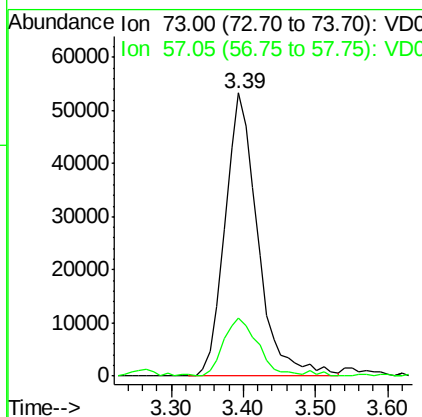
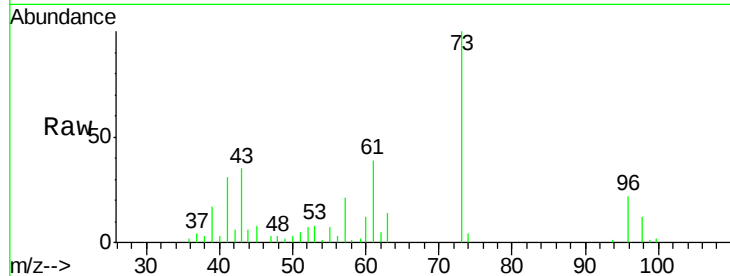




#19
Methvl tert-butvl Ether
Concen: 11.78 ug/l
RT: 3.39 min Scan# 322
Delta R.T. -0.01 min
Lab File: VD058197.D
Acq: 19 Jun 2018 16:31

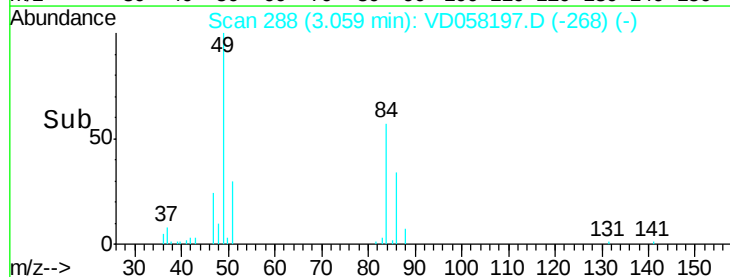
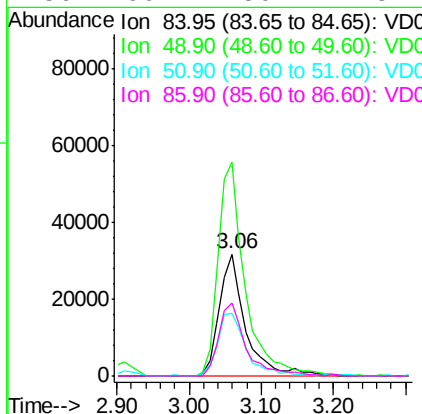
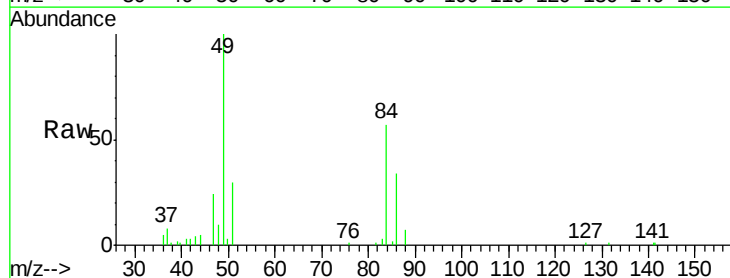
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

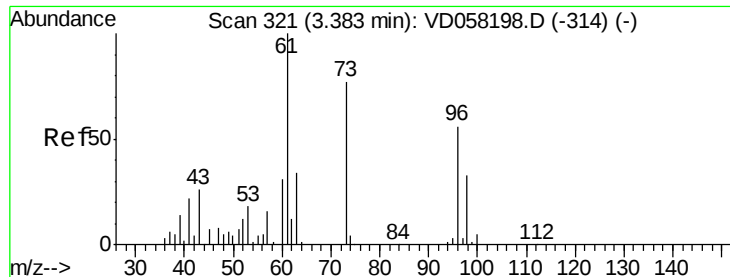
Tot Ion: 73 Resp: 168271
Ion Ratio Lower Upper
73 100
57 20.5 16.6 24.8



#20
Methylene Chloride
Concen: 18.79 ug/l
RT: 3.06 min Scan# 288
Delta R.T. 0.00 min
Lab File: VD058197.D
Acq: 19 Jun 2018 16:31

Tgt Ion: 84 Resp: 79965
Ion Ratio Lower Upper
84 100
49 175.5 145.0 217.6
51 51.8 42.9 64.3
86 60.1 50.1 75.1





#21

trans-1,2-Dichloroethene

Concen: 10.54 ug/l

RT: 3.37 min Scan# 320

Delta R.T. -0.01 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

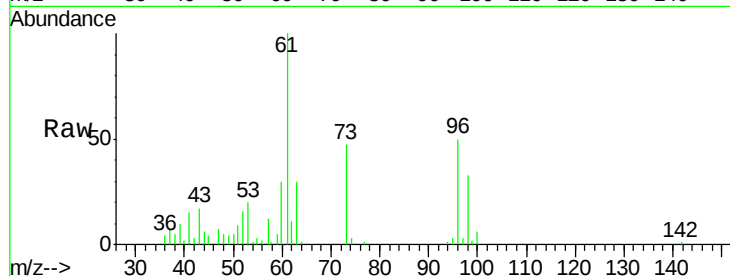
Tot Ion: 96 Resp: 74269

Ion Ratio Lower Upper

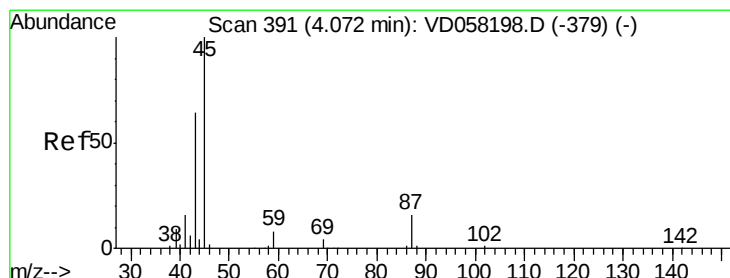
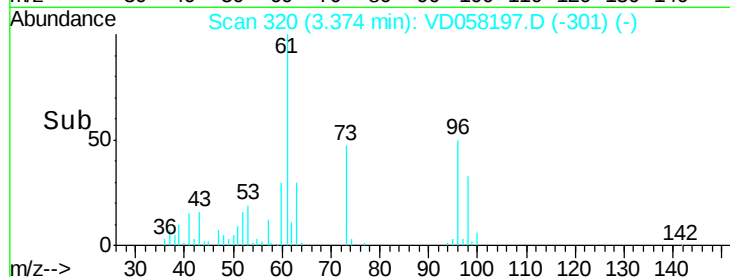
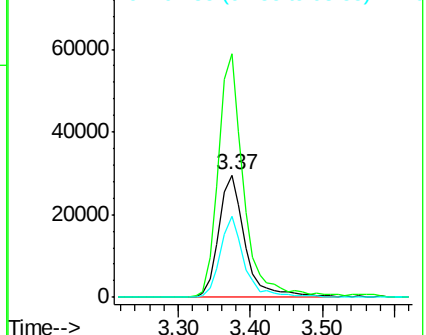
96 100

61 199.1 143.8 215.6

98 66.3 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: 19.44 ug/l

RT: 4.06 min Scan# 390

Delta R.T. -0.01 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

Tgt Ion: 45 Resp: 609561

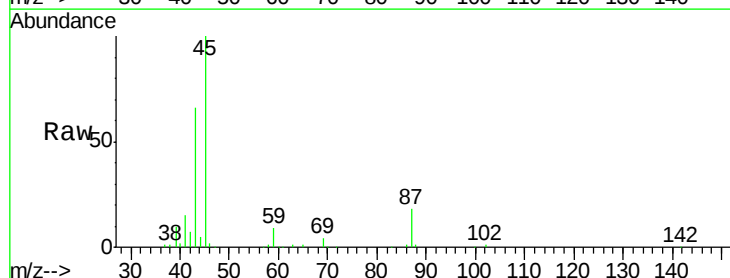
Ion Ratio Lower Upper

45 100

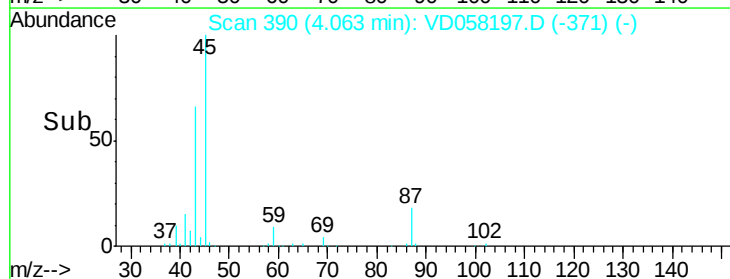
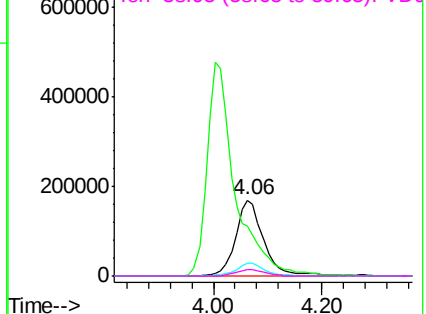
43 66.4 51.4 77.0

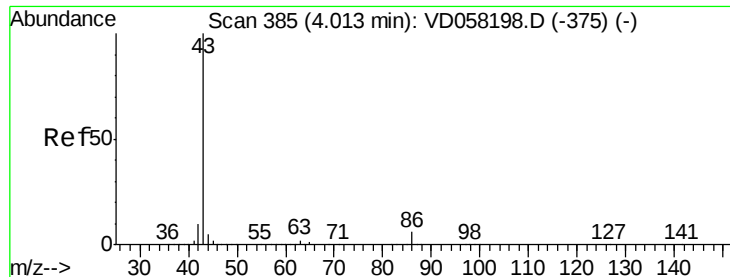
87 17.6 13.0 19.4

59 9.3 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: 104.63 ug/l

RT: 4.00 min Scan# 384

Delta R.T. -0.01 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

Instrument :

MSVOA_D

ClientSampleId :

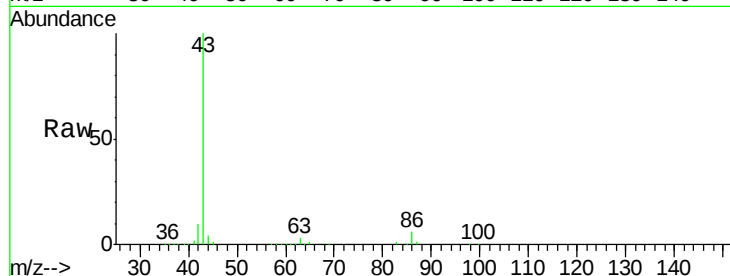
VSTDIC020

Tot Ion: 43 Resp: 1710709

Ion Ratio Lower Upper

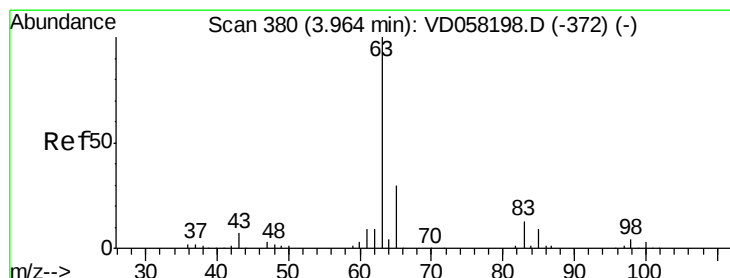
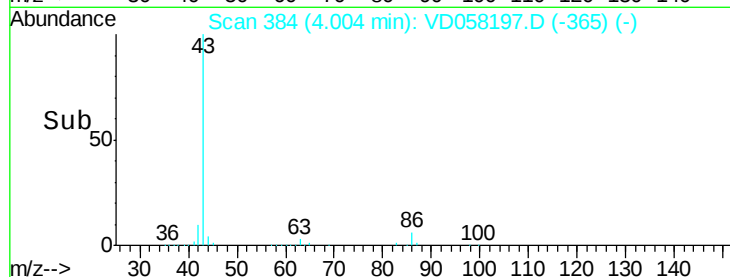
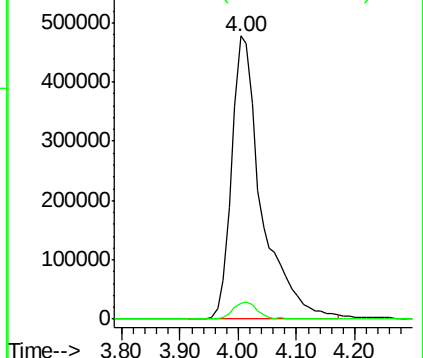
43 100

86 5.8 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: 19.05 ug/l

RT: 3.95 min Scan# 379

Delta R.T. -0.01 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

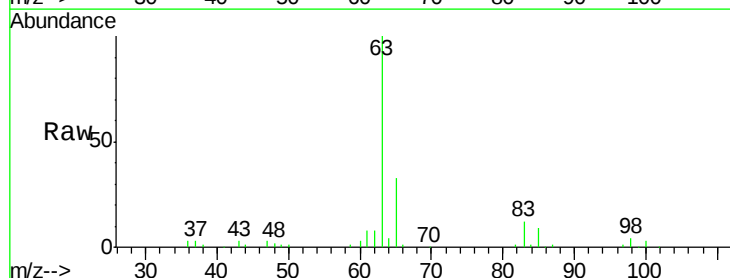
Tgt Ion: 63 Resp: 328774

Ion Ratio Lower Upper

63 100

98 4.0 1.9 5.7

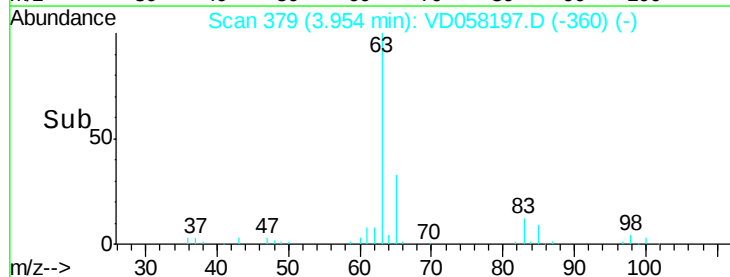
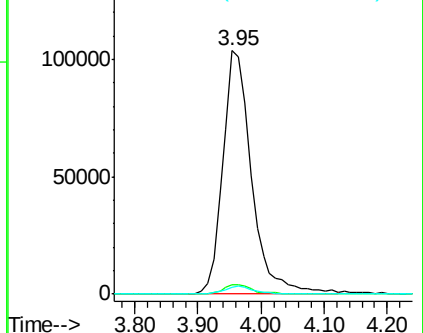
100 2.5 1.3 3.9

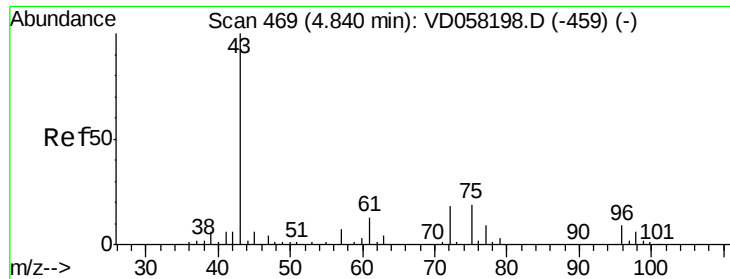


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 103.46 ug/l

RT: 4.83 min Scan# 468

Delta R.T. -0.01 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

Instrument :

MSVOA_D

ClientSampleId :

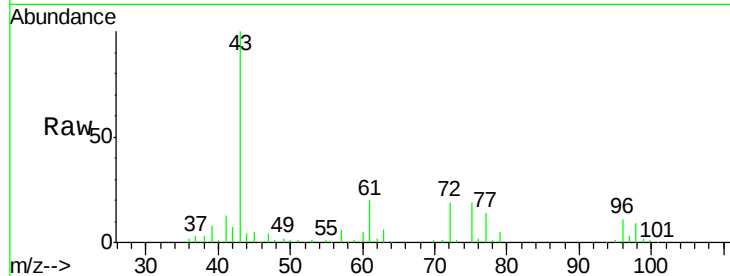
VSTDIC020

Tot Ion: 43 Resp: 294438

Ion Ratio Lower Upper

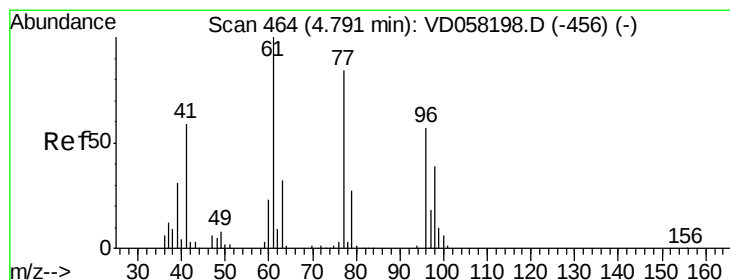
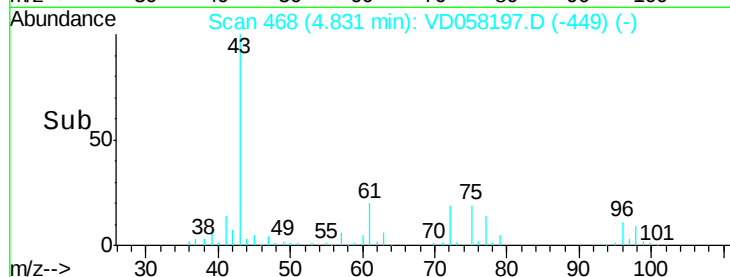
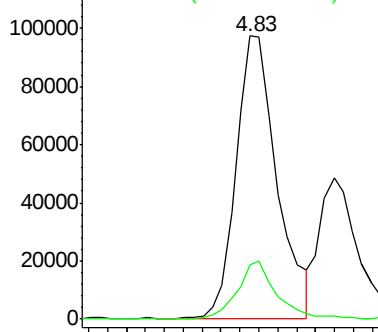
43 100

72 19.4 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: 18.77 ug/l

RT: 4.79 min Scan# 464

Delta R.T. 0.00 min

Lab File: VD058197.D

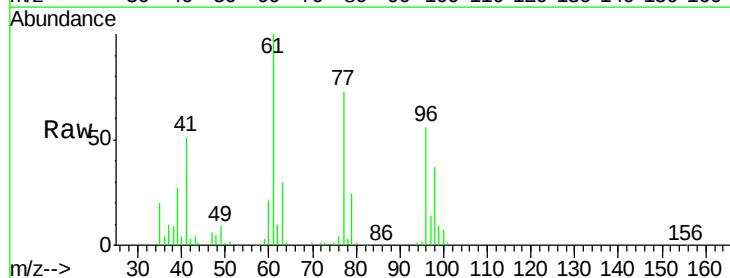
Acq: 19 Jun 2018 16:31

Tgt Ion: 77 Resp: 266313

Ion Ratio Lower Upper

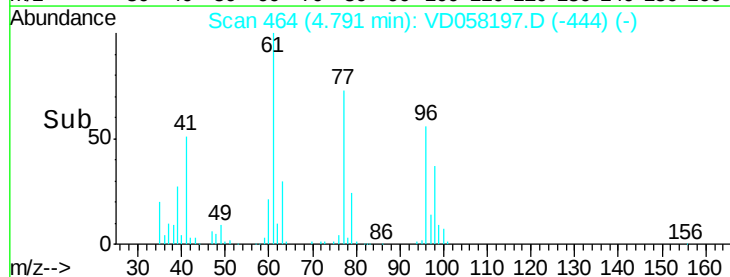
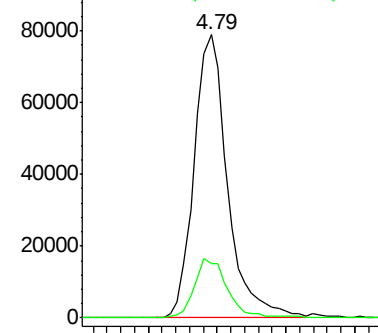
77 100

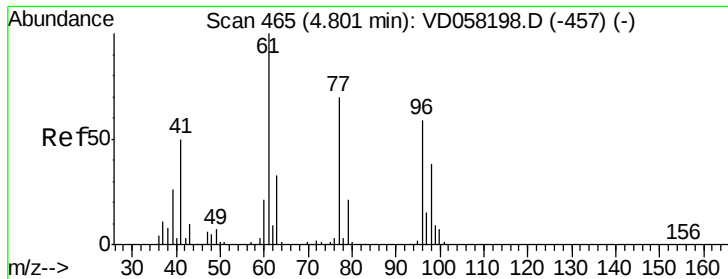
97 19.1 10.5 31.6



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: 20.17 ug/l

RT: 4.80 min Scan# 465

Delta R.T. 0.00 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

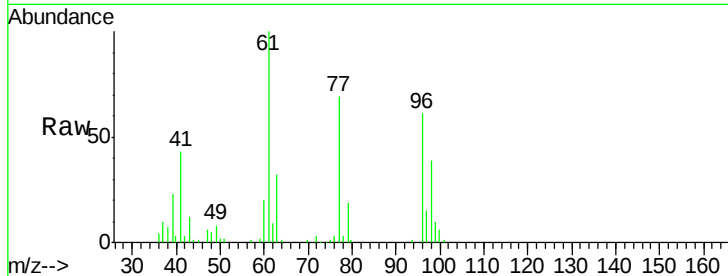
Tot Ion: 96 Resp: 183693

Ion Ratio Lower Upper

96 100

61 164.7 0.0 338.6

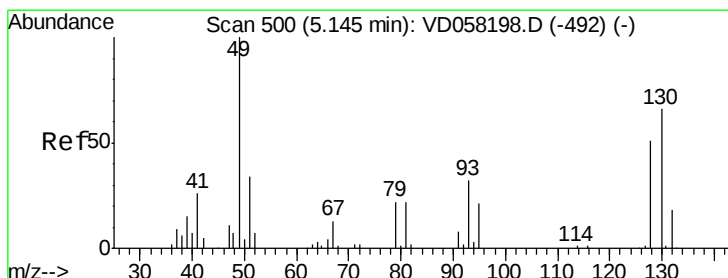
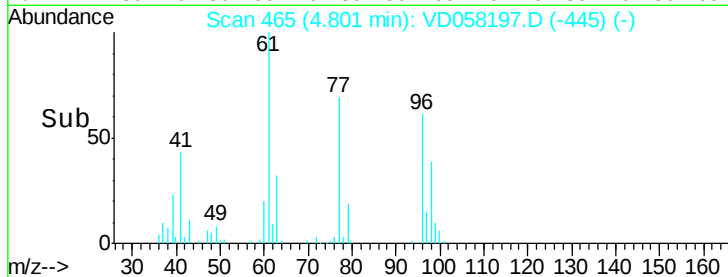
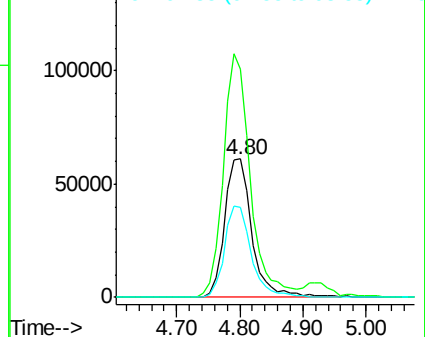
98 64.7 0.0 130.2



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: 19.45 ug/l

RT: 5.14 min Scan# 499

Delta R.T. -0.01 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

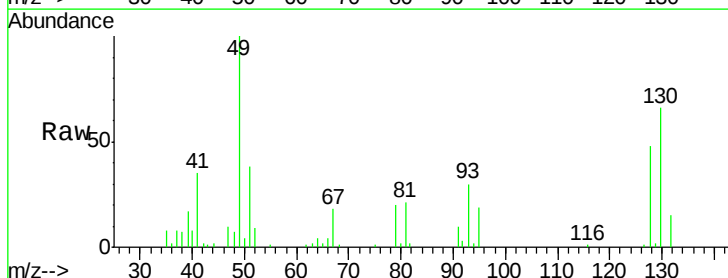
Tgt Ion: 49 Resp: 146774

Ion Ratio Lower Upper

49 100

129 1.8 0.0 0.0#

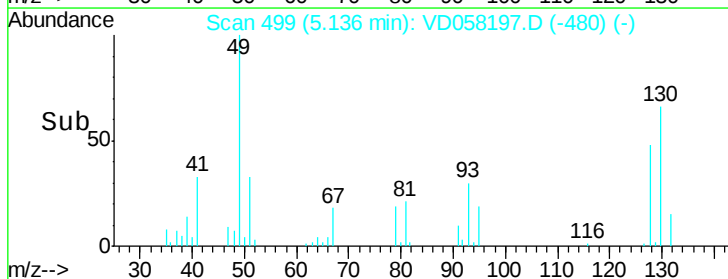
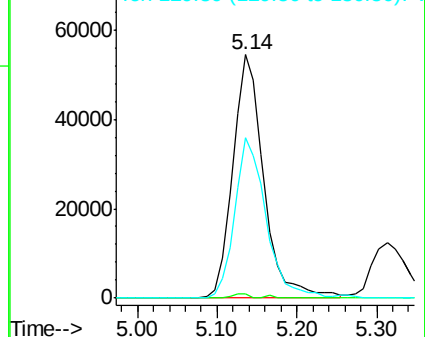
130 65.9 52.6 79.0



Abundance Ion 48.90 (48.60 to 49.60): VDC

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 101.54 ug/l

RT: 5.18 min Scan# 504

Delta R.T. 0.00 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

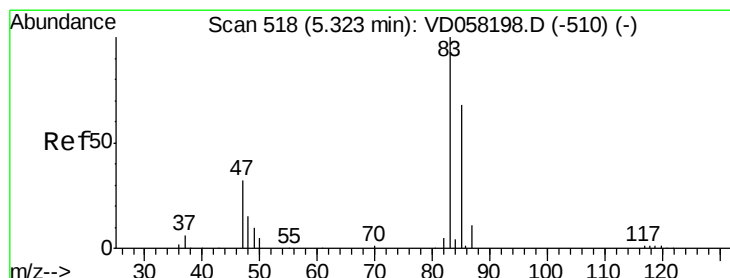
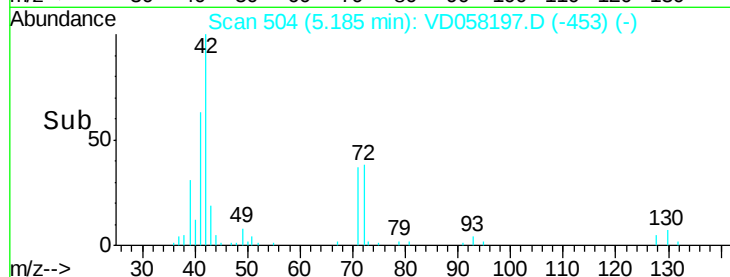
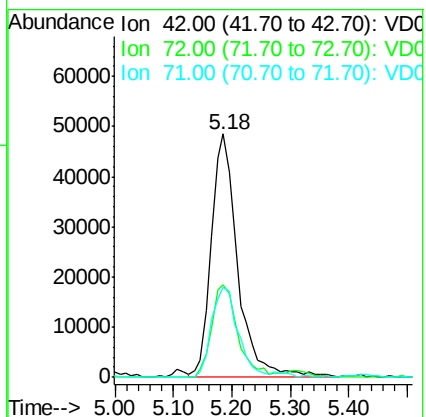
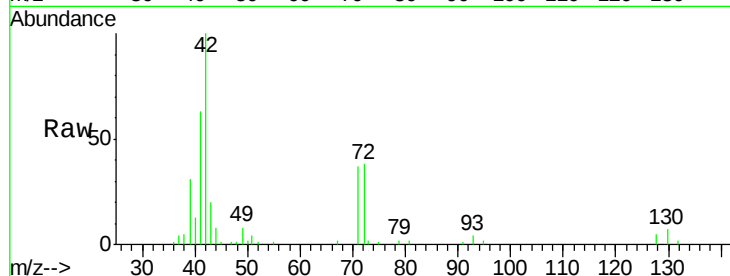
Tot Ion: 42 Resp: 153428

Ion Ratio Lower Upper

42 100

72 37.8 30.2 45.2

71 36.7 30.1 45.1



#30

Chloroform

Concen: 19.87 ug/l

RT: 5.31 min Scan# 517

Delta R.T. -0.01 min

Lab File: VD058197.D

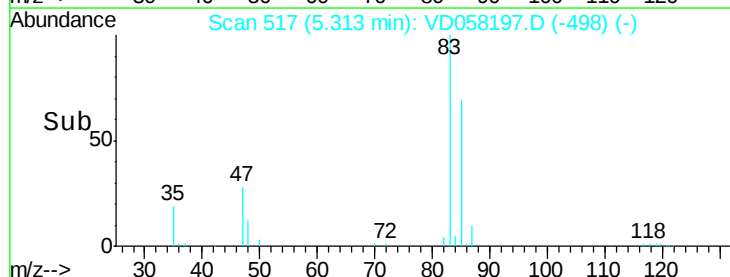
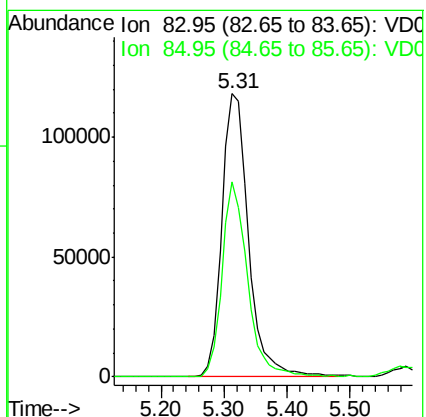
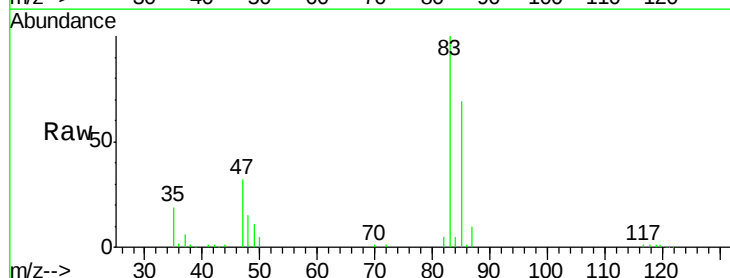
Acq: 19 Jun 2018 16:31

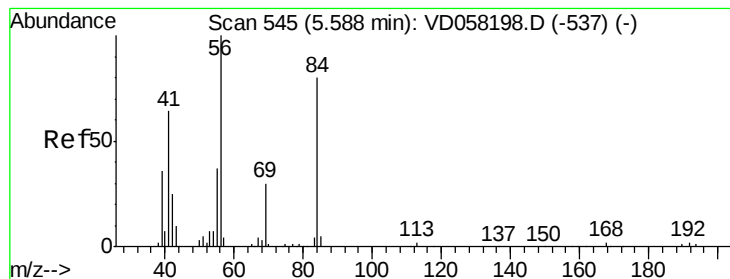
Tgt Ion: 83 Resp: 347047

Ion Ratio Lower Upper

83 100

85 68.9 54.8 82.2





#31

Cvclohexane

Concen: 18.47 ug/l

RT: 5.58 min Scan# 544

Delta R.T. -0.01 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

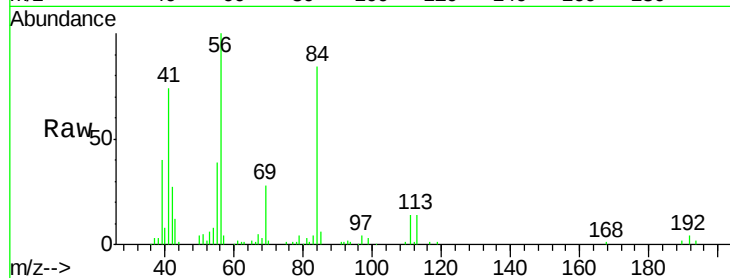
Tot Ion: 56 Resp: 275335

Ion Ratio Lower Upper

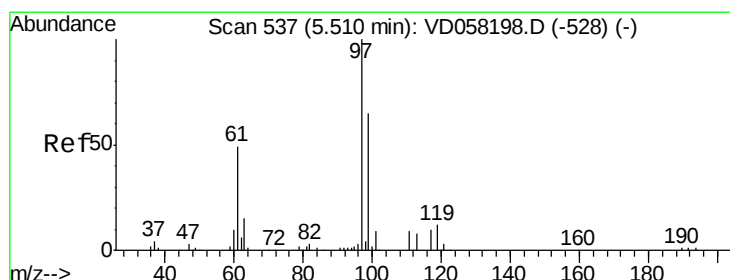
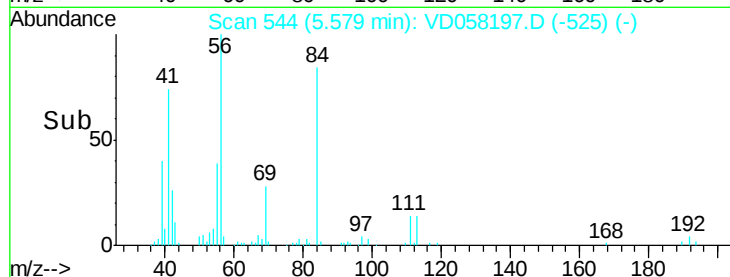
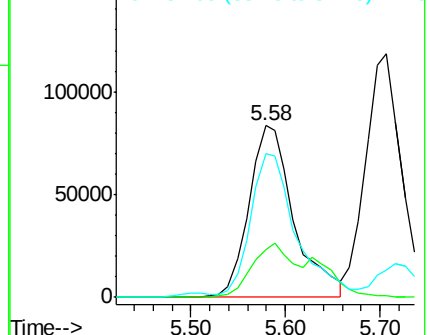
56 100

69 27.5 23.6 35.4

84 84.1 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: 19.14 ug/l

RT: 5.50 min Scan# 536

Delta R.T. -0.01 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

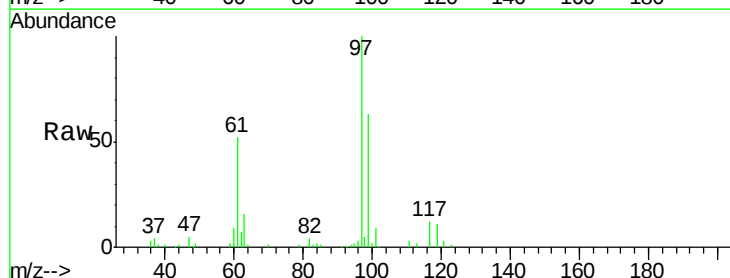
Tgt Ion: 97 Resp: 279840

Ion Ratio Lower Upper

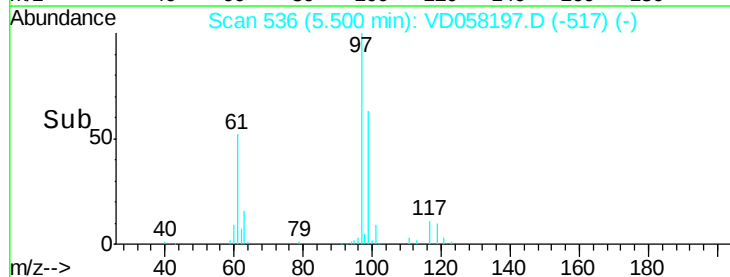
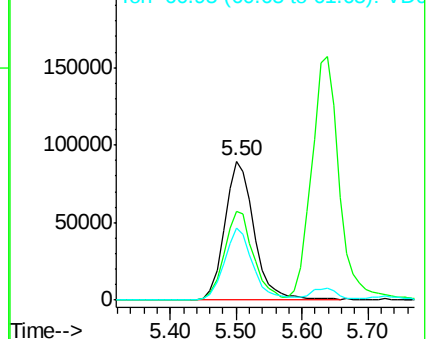
97 100

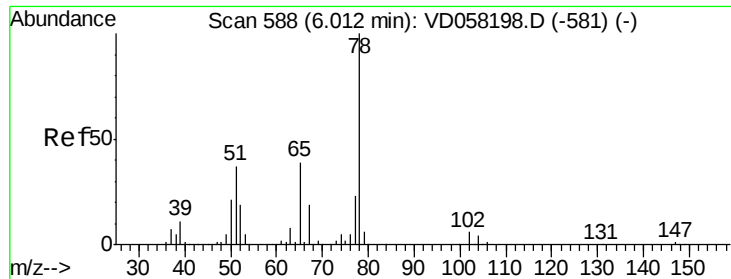
99 63.5 52.2 78.4

61 51.6 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

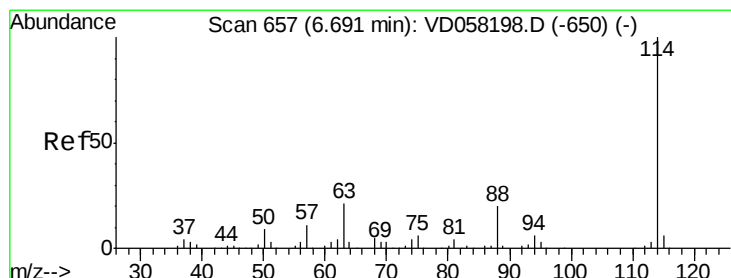
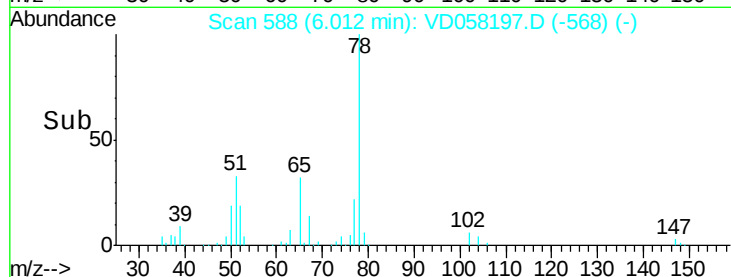
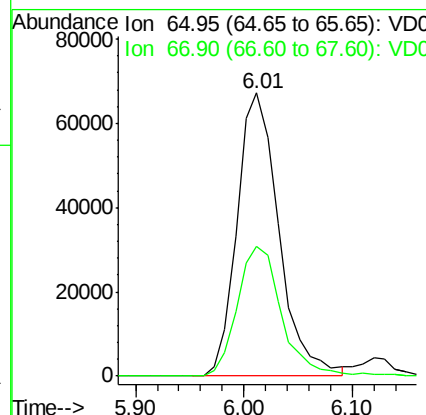
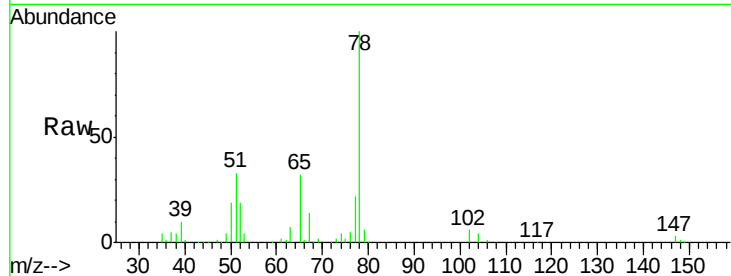




#33
 1,2-Dichloroethane-d4
 Concen: 19.14 ug/l
 RT: 6.01 min Scan# 588
 Delta R.T. 0.00 min
 Lab File: VD058197.D
 Acq: 19 Jun 2018 16:31

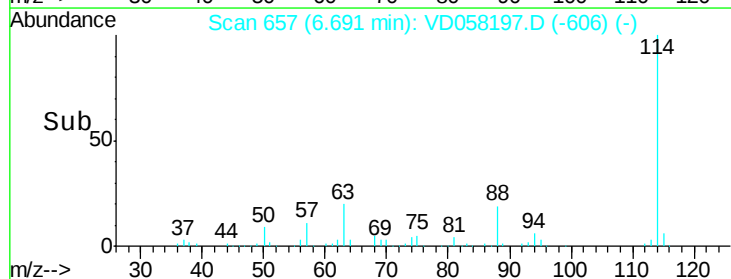
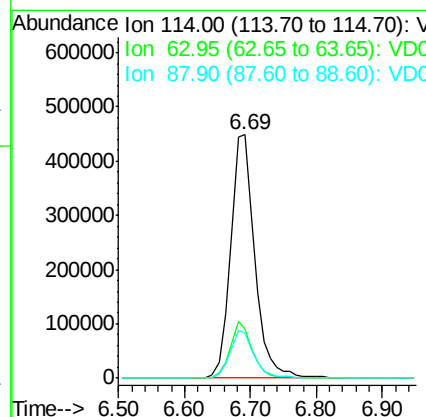
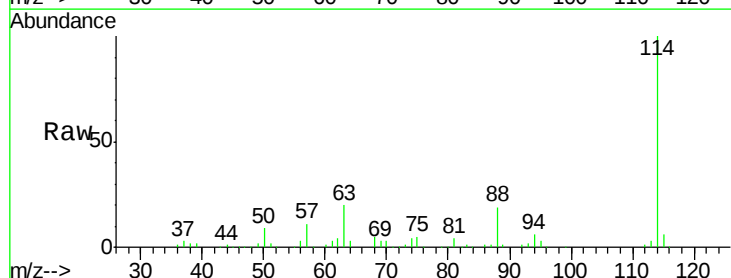
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

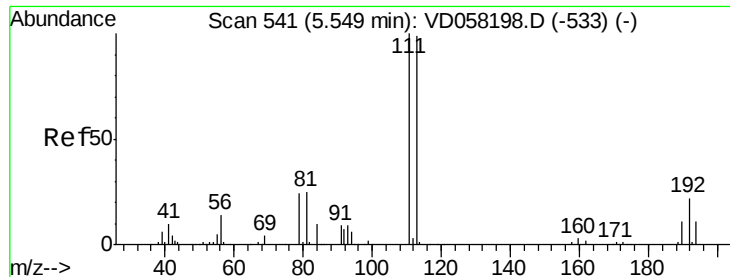
Tot Ion: 65 Resp: 180154
 Ion Ratio Lower Upper
 65 100
 67 45.9 0.0 97.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.69 min Scan# 657
 Delta R.T. 0.00 min
 Lab File: VD058197.D
 Acq: 19 Jun 2018 16:31

Tgt Ion: 114 Resp: 1155171
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 42.6
 88 18.8 0.0 40.6

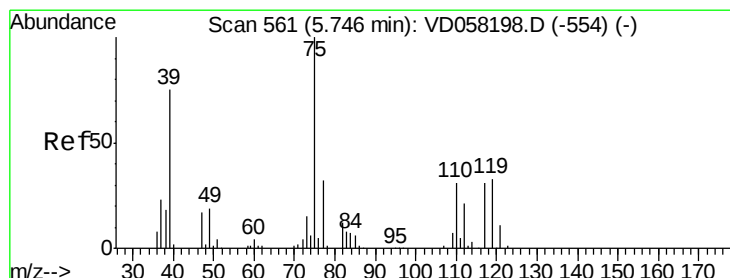
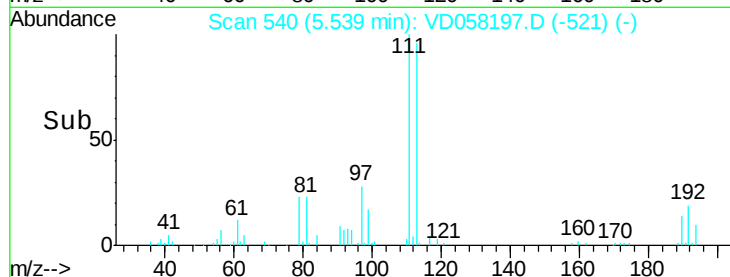
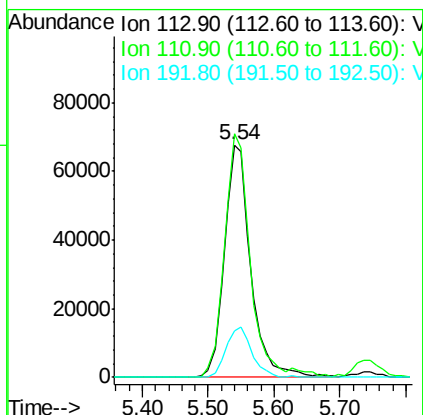
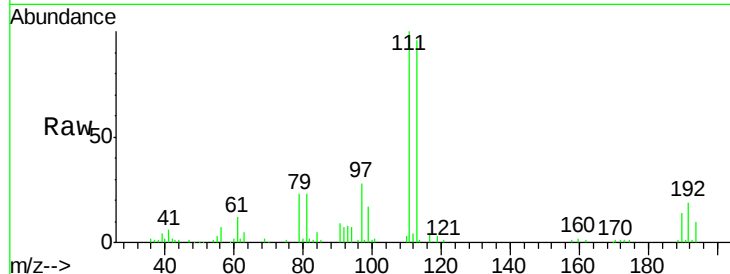




#35
 Dibromofluoromethane
 Concen: 50.00 ug/l
 RT: 5.54 min Scan# 540
 Delta R.T. -0.01 min
 Lab File: VD058197.D
 Acq: 19 Jun 2018 16:31

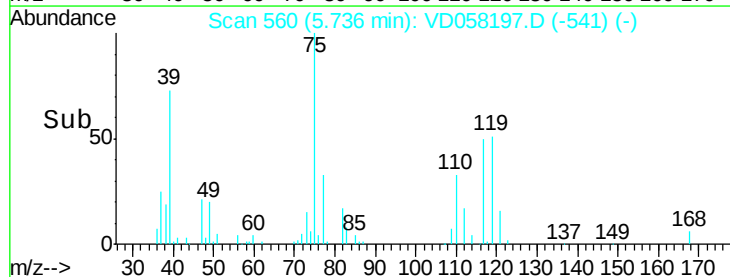
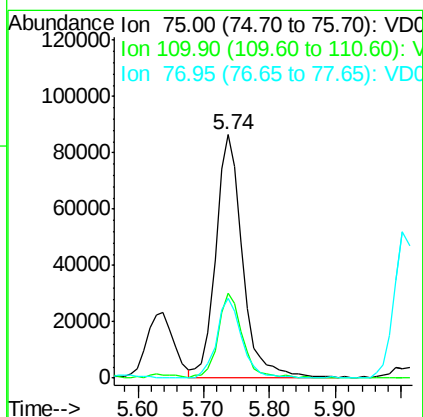
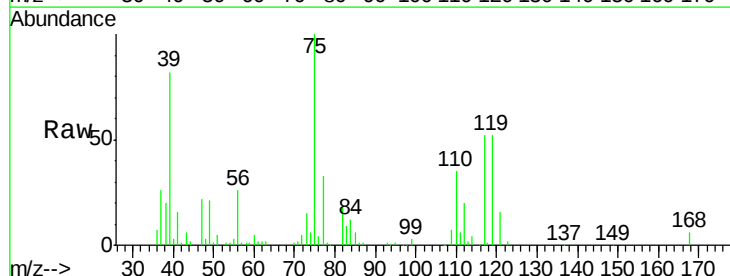
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

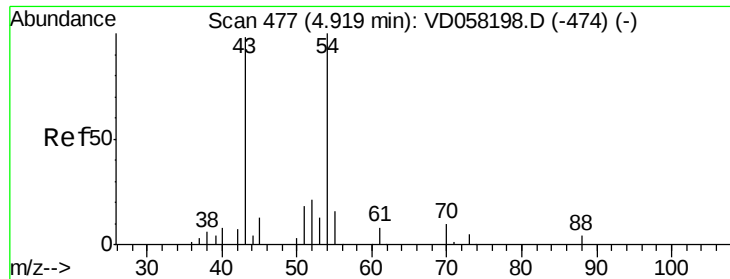
Tot Ion:113 Resp: 189016
 Ion Ratio Lower Upper
 113 100
 111 104.7 80.6 121.0
 192 19.8 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 19.66 ug/l
 RT: 5.74 min Scan# 560
 Delta R.T. -0.01 min
 Lab File: VD058197.D
 Acq: 19 Jun 2018 16:31

Tgt Ion: 75 Resp: 245269
 Ion Ratio Lower Upper
 75 100
 110 34.8 15.4 46.4
 77 32.9 25.4 38.2





#37

Ethyl Acetate

Concen: 20.25 ug/l

RT: 4.92 min Scan# 477

Delta R.T. 0.00 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

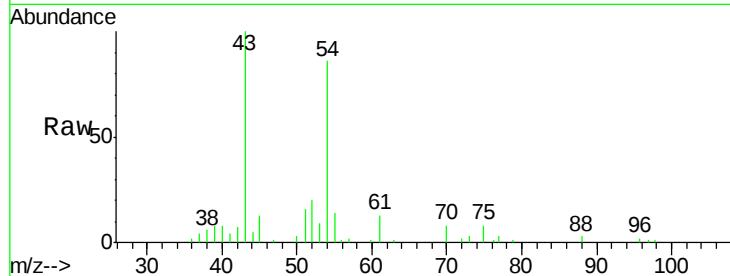
Tot Ion: 43 Resp: 141075

Ion Ratio Lower Upper

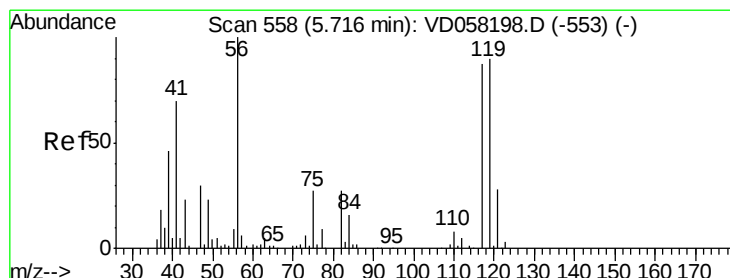
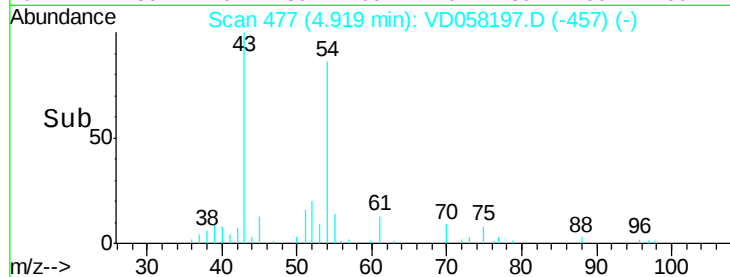
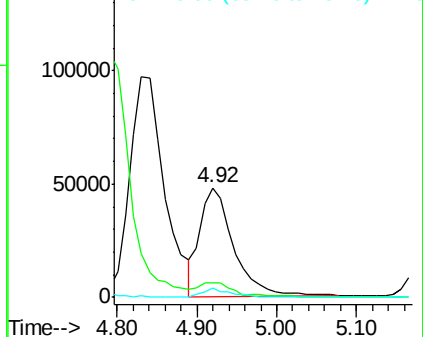
43 100

61 12.7 10.3 15.5

70 8.5 5.7 8.5



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC



#38

Carbon Tetrachloride

Concen: 19.00 ug/l

RT: 5.72 min Scan# 558

Delta R.T. 0.00 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

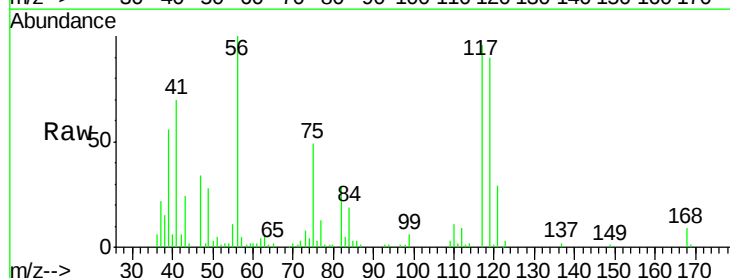
Tgt Ion: 117 Resp: 234358

Ion Ratio Lower Upper

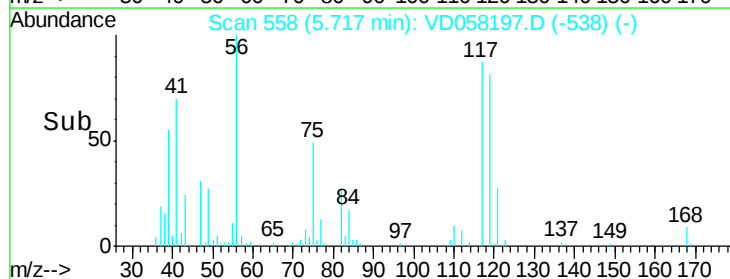
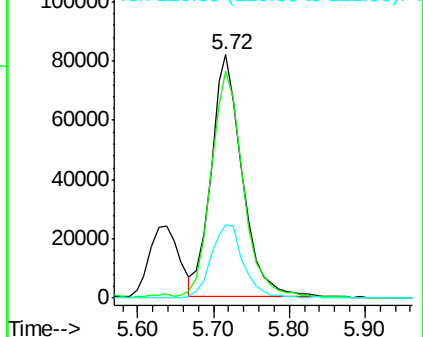
117 100

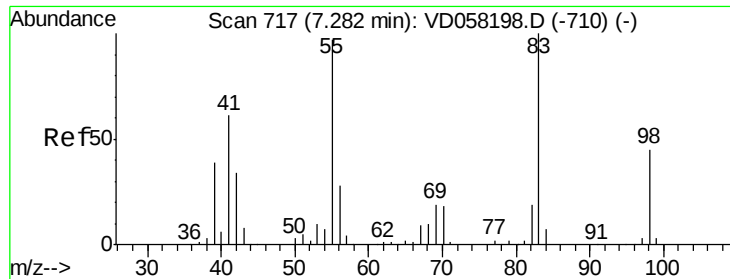
119 93.3 78.8 118.2

121 30.1 25.0 37.6



Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

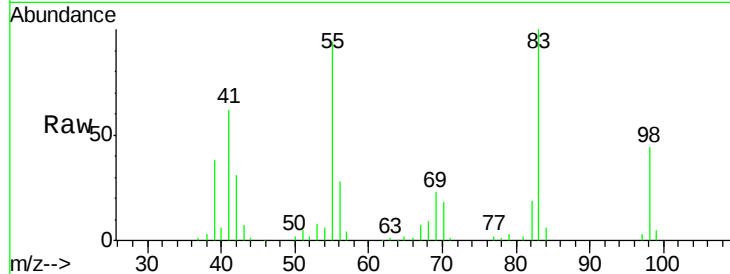




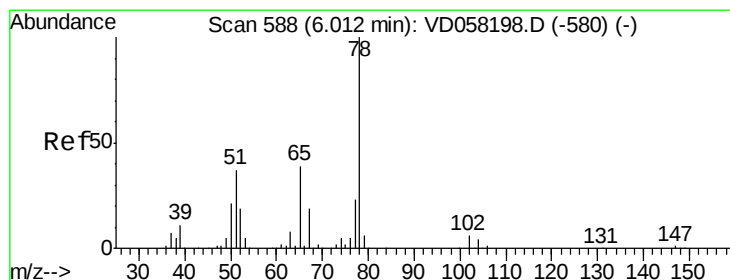
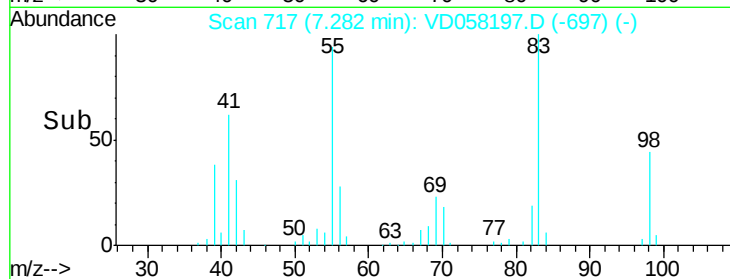
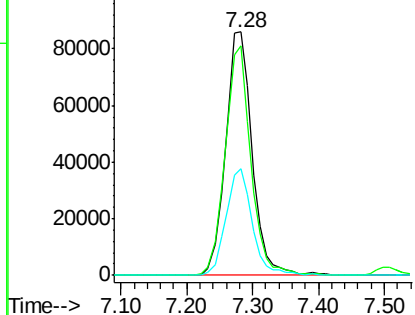
#39
Methvlcvclohexane
Concen: 19.71 ug/l
RT: 7.28 min Scan# 717
Delta R.T. 0.00 min
Lab File: VD058197.D
Acq: 19 Jun 2018 16:31

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion: 83 Resp: 241871
Ion Ratio Lower Upper
83 100
55 94.1 77.4 116.2
98 43.9 35.9 53.9

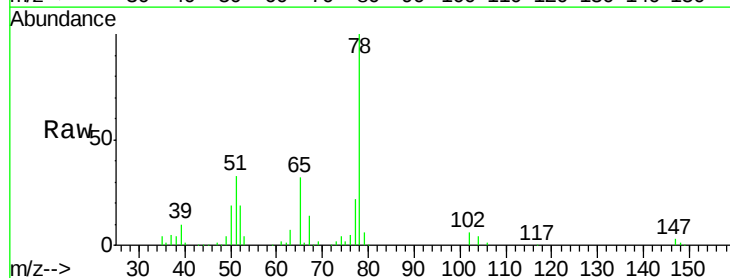


Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC

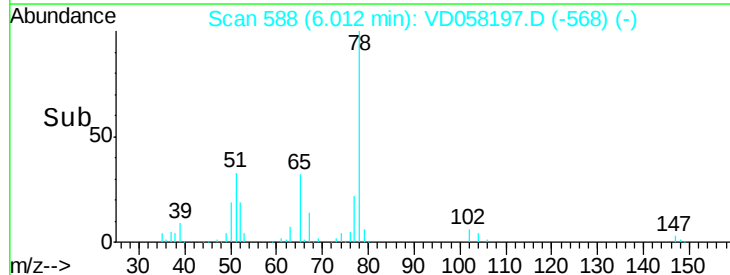
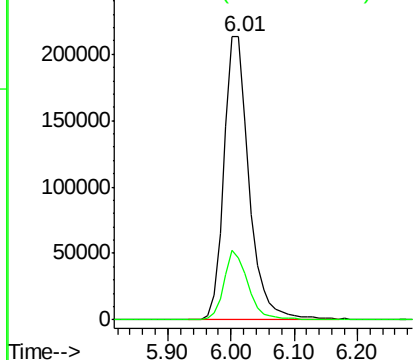


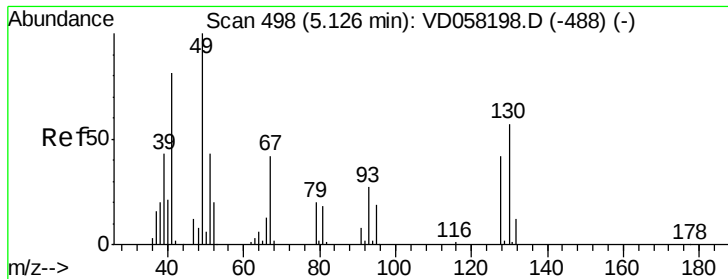
#40
Benzene
Concen: 20.22 ug/l
RT: 6.01 min Scan# 588
Delta R.T. 0.00 min
Lab File: VD058197.D
Acq: 19 Jun 2018 16:31

Tgt Ion: 78 Resp: 589538
Ion Ratio Lower Upper
78 100
77 22.0 18.5 27.7



Abundance Ion 77.95 (77.65 to 78.65): VDC
Ion 76.95 (76.65 to 77.65): VDC





#41

Methacrylonitrile

Concen: 20.61 ug/l

RT: 5.12 min Scan# 497

Delta R.T. -0.01 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 41 Resp: 65110

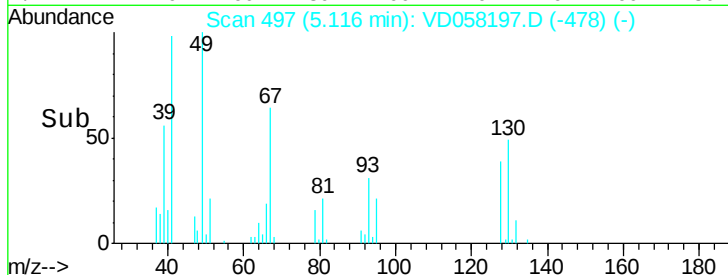
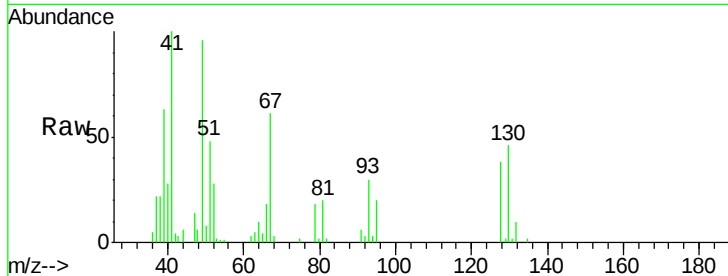
Ion	Ratio	Lower	Upper
41	100		
39	63.4	43.4	65.2
67	61.2	41.7	62.5
52	28.4	20.6	30.8

41 100

39 63.4 43.4 65.2

67 61.2 41.7 62.5

52 28.4 20.6 30.8

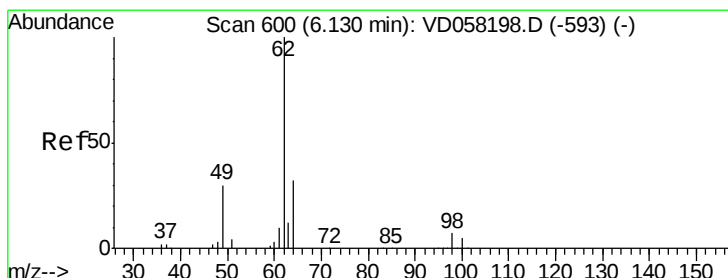
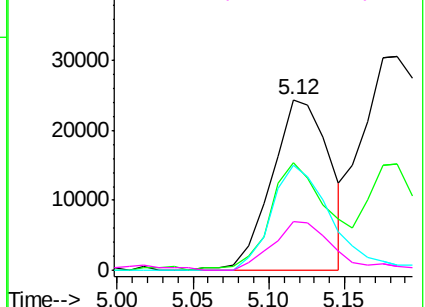


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 19.63 ug/l

RT: 6.12 min Scan# 599

Delta R.T. -0.01 min

Lab File: VD058197.D

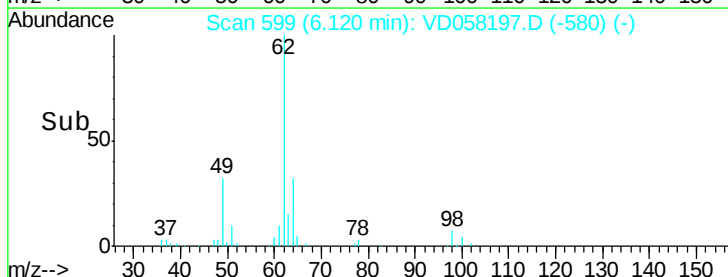
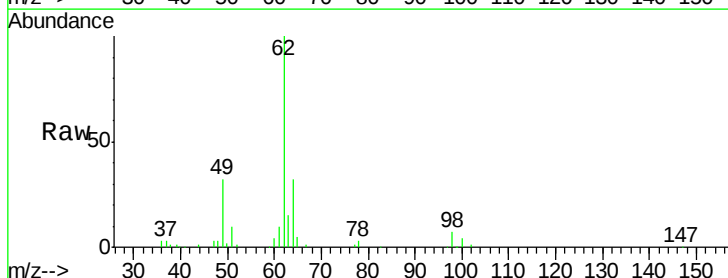
Acq: 19 Jun 2018 16:31

Tgt Ion: 62 Resp: 232131

Ion	Ratio	Lower	Upper
62	100		
98	7.3	0.0	13.2

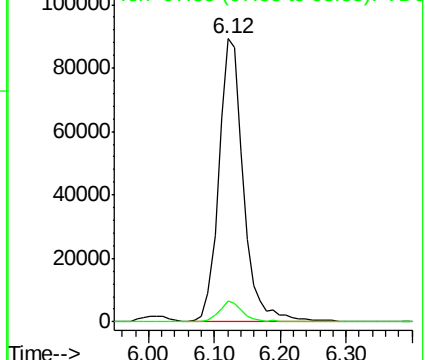
62 100

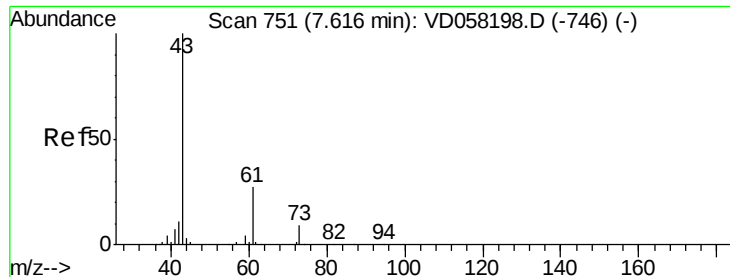
98 7.3 0.0 13.2



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



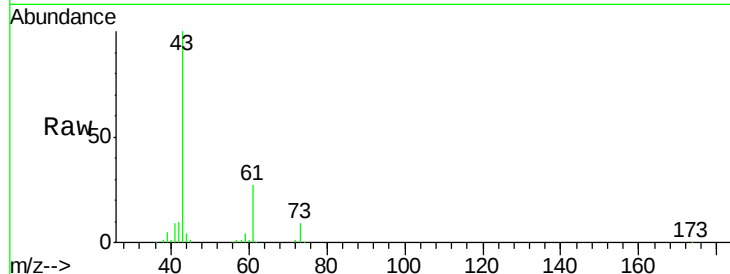


#43

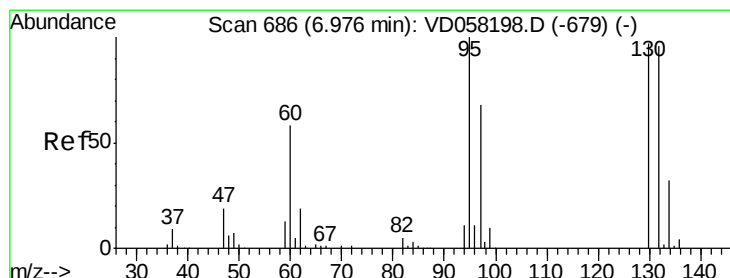
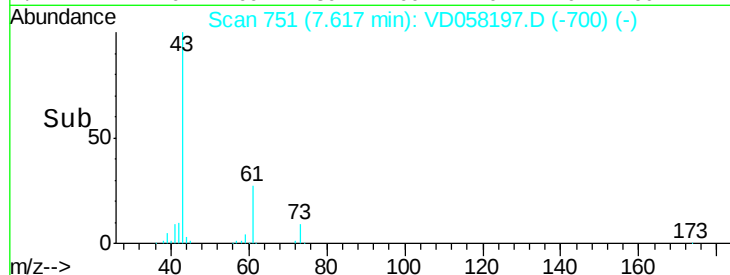
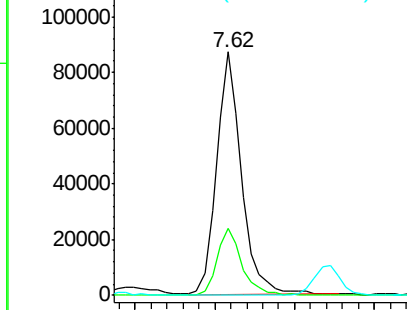
Isopropyl Acetate
 Concen: 20.93 ug/l
 RT: 7.62 min Scan# 751
 Delta R.T. 0.00 min
 Lab File: VD058197.D
 Acq: 19 Jun 2018 16:31

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion: 43 Resp: 190926
 Ion Ratio Lower Upper
 43 100
 61 27.3 21.8 32.6
 87 0.0 0.3 0.5#



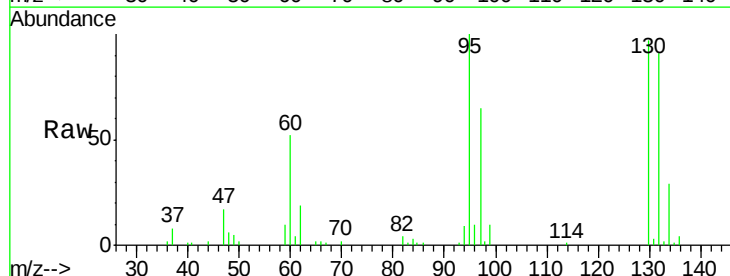
Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 87.00 (86.70 to 87.70): VDC



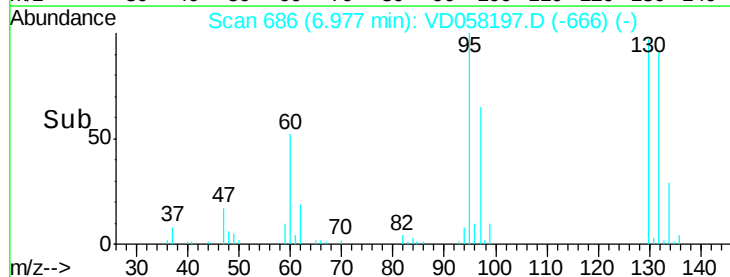
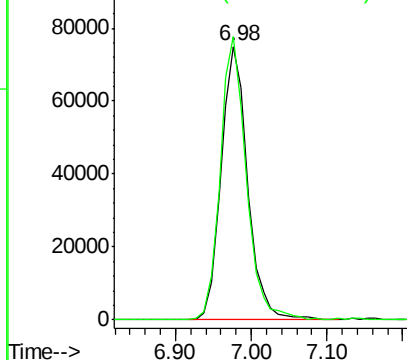
#44

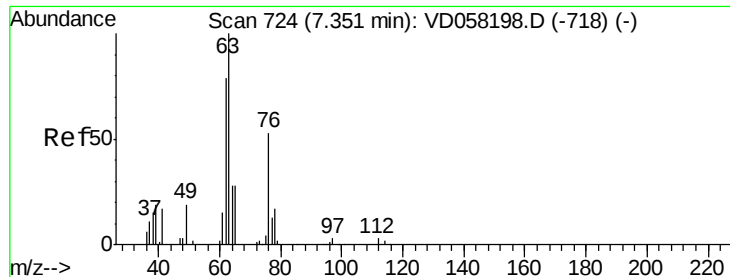
Trichloroethene
 Concen: 21.36 ug/l
 RT: 6.98 min Scan# 686
 Delta R.T. 0.00 min
 Lab File: VD058197.D
 Acq: 19 Jun 2018 16:31

Tgt Ion: 130 Resp: 182003
 Ion Ratio Lower Upper
 130 100
 95 103.4 0.0 205.6



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





#45

1,2-Dichloropropane

Concen: 19.46 ug/l

RT: 7.34 min Scan# 723

Delta R.T. -0.01 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

Instrument :

MSVOA_D

ClientSampleId :

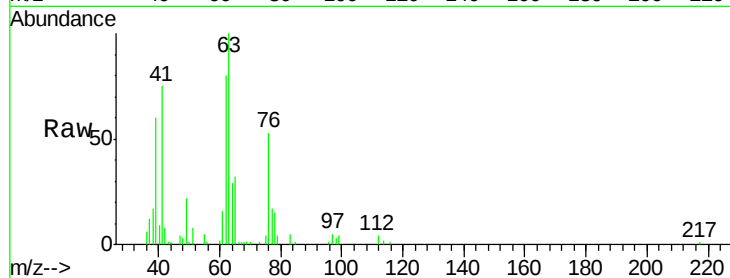
VSTDIC020

Tot Ion: 63 Resp: 157634

Ion Ratio Lower Upper

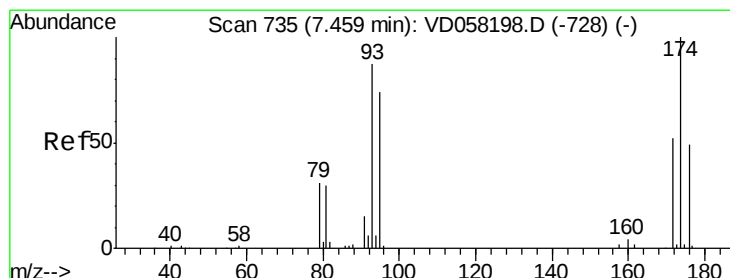
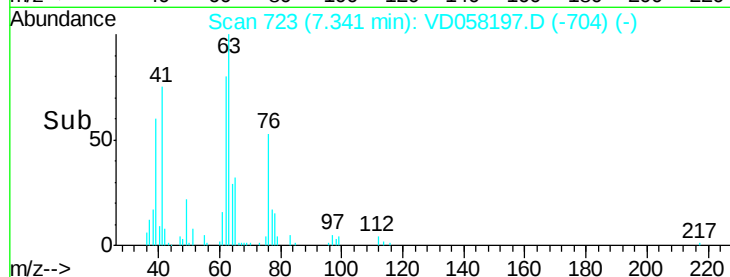
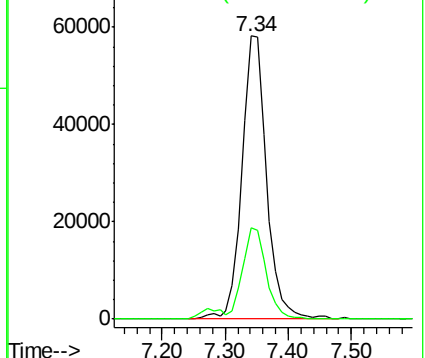
63 100

65 32.5 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: 21.21 ug/l

RT: 7.46 min Scan# 735

Delta R.T. 0.00 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

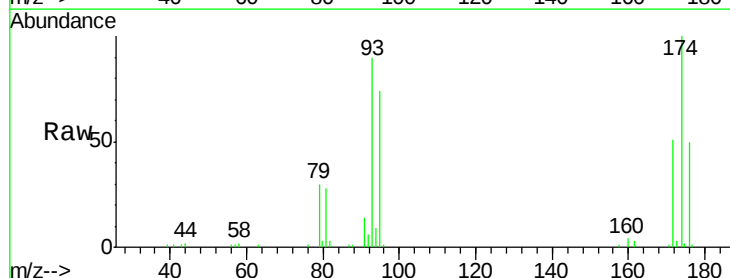
Tgt Ion: 93 Resp: 112016

Ion Ratio Lower Upper

93 100

95 82.3 67.8 101.6

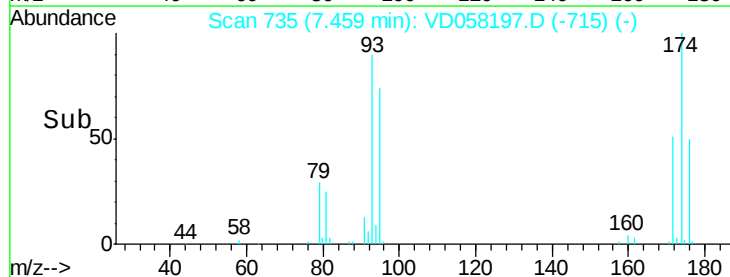
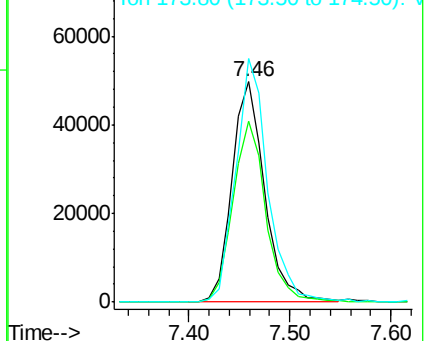
174 110.6 92.2 138.2

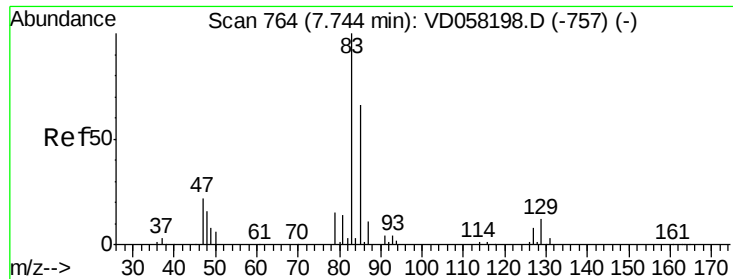


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V





#47

Bromodichloromethane

Concen: 20.61 ug/l

RT: 7.74 min Scan# 764

Delta R.T. 0.00 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

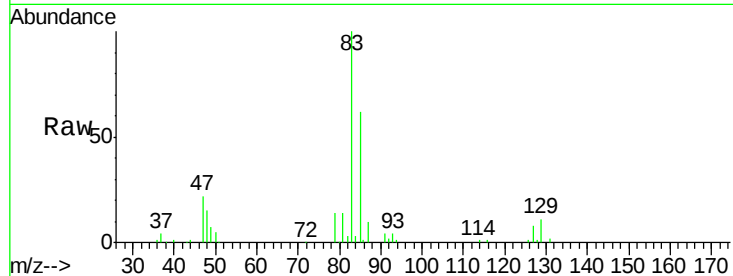
Tot Ion: 83 Resp: 250915

Ion Ratio Lower Upper

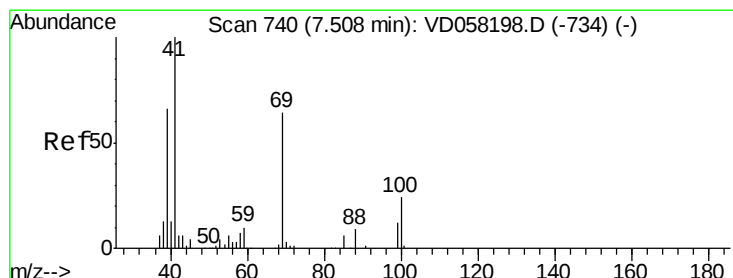
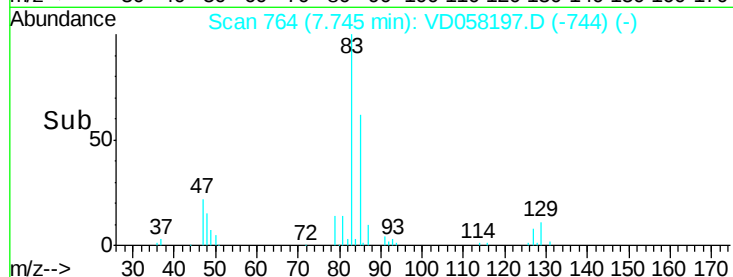
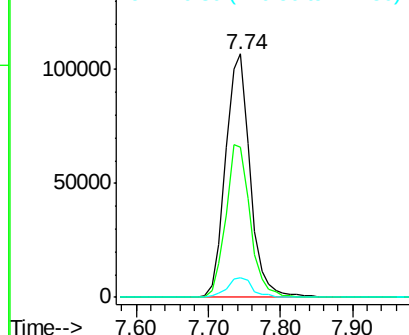
83 100

85 61.8 52.6 78.8

127 8.2 6.2 9.4



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



#48

Methyl methacrylate

Concen: 19.98 ug/l

RT: 7.50 min Scan# 739

Delta R.T. -0.01 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

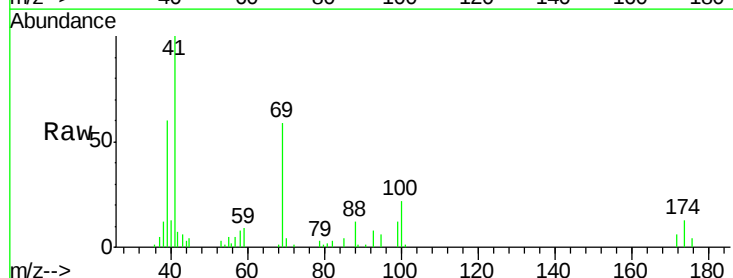
Tgt Ion: 41 Resp: 111691

Ion Ratio Lower Upper

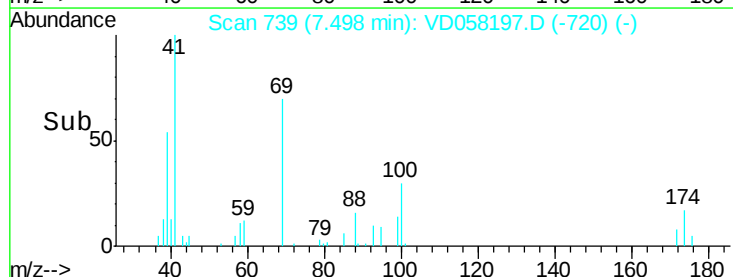
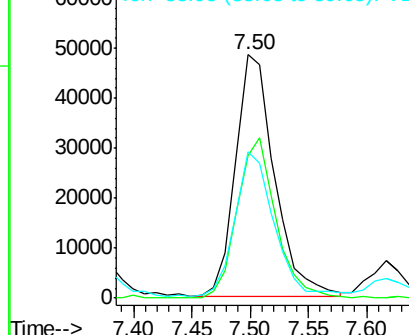
41 100

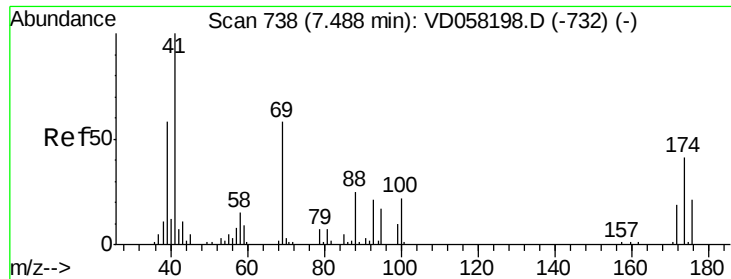
69 58.7 50.7 76.1

39 60.3 52.6 78.8



Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 38.95 (38.65 to 39.65): VDC





#49

1,4-Dioxane

Concen: 445.68 ug/l

RT: 7.50 min Scan# 739

Delta R.T. 0.01 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

Instrument :

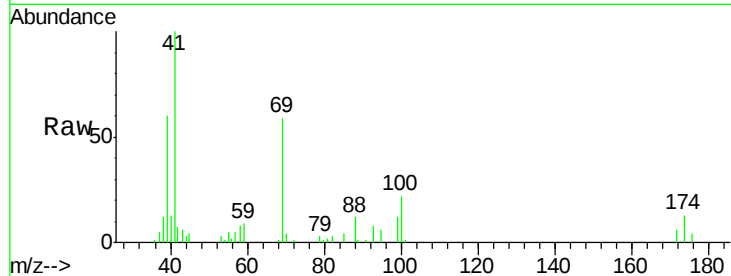
MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 88 Resp: 21313

Ion	Ratio	Lower	Upper
88	100		
43	49.8	34.2	51.2
58	67.8	47.9	71.9



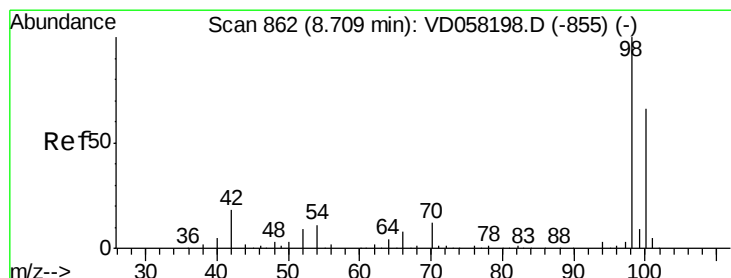
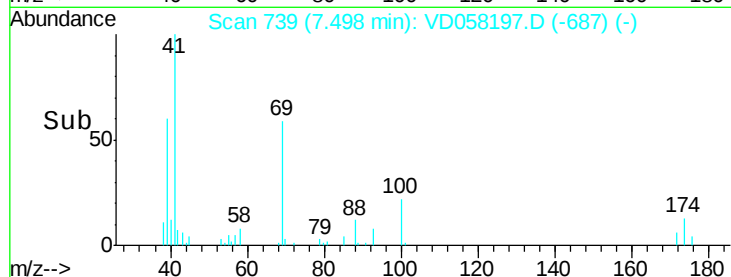
Abundance

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

Time-->



#50

Toluene-d8

Concen: 445.68 ug/l

RT: 8.71 min Scan# 862

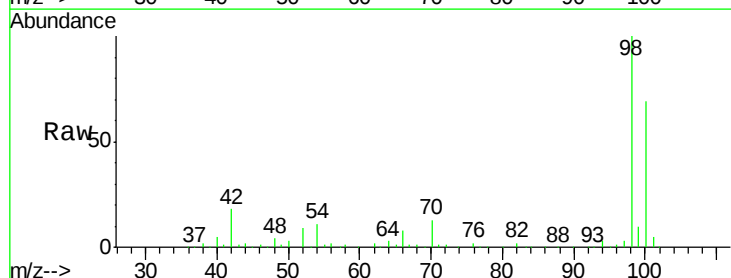
Delta R.T. 0.00 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

Tgt Ion: 98 Resp: 480252

Ion	Ratio	Lower	Upper
98	100		
100	69.1	53.6	80.4

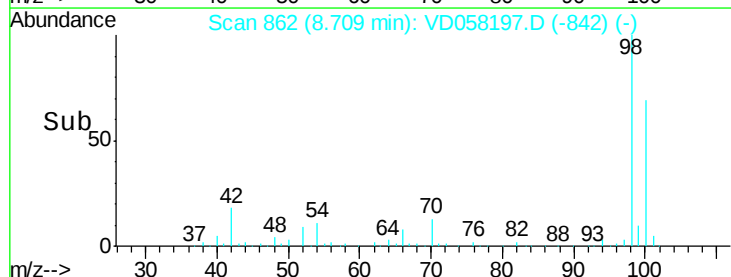


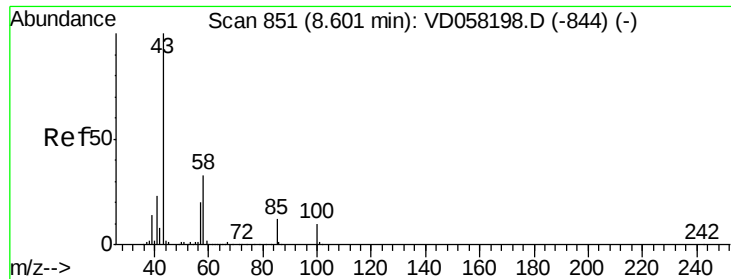
Abundance

Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

Time-->





#51

4-Methyl-2-Pentanone

Concen: 105.78 ug/l

RT: 8.60 min Scan# 851

Delta R.T. 0.00 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

Instrument :

MSVOA_D

ClientSampleId :

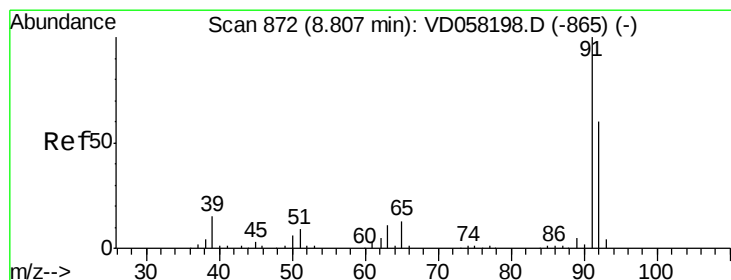
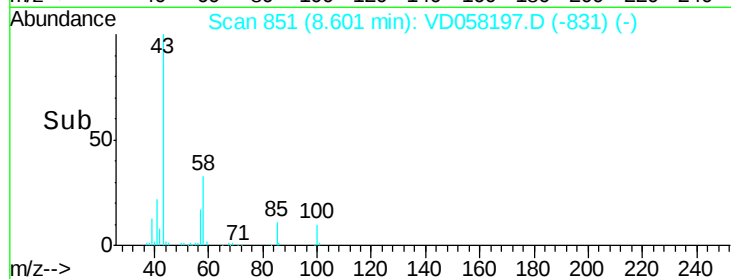
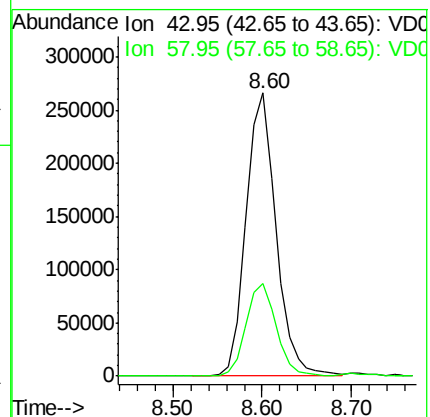
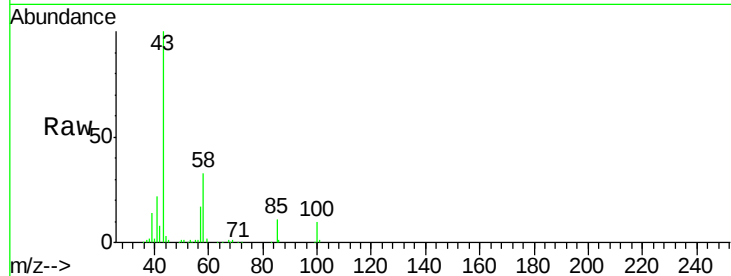
VSTDIC020

Tot Ion: 43 Resp: 619422

Ion Ratio Lower Upper

43 100

58 33.0 26.7 40.1



#52

Toluene

Concen: 20.67 ug/l

RT: 8.80 min Scan# 871

Delta R.T. -0.01 min

Lab File: VD058197.D

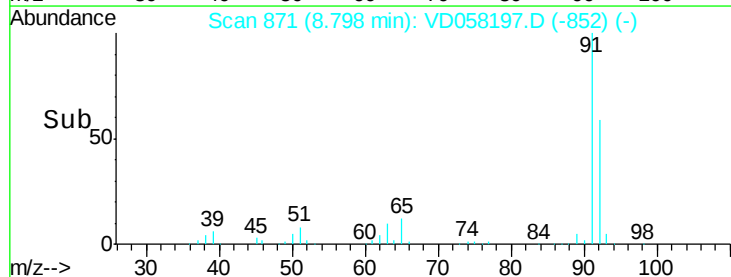
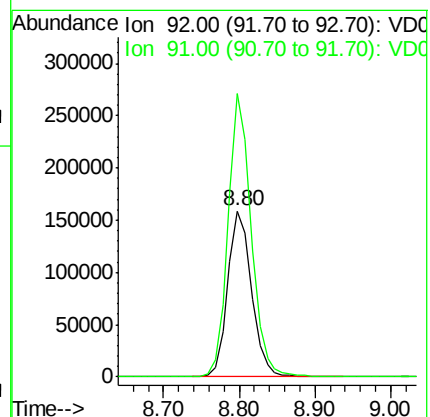
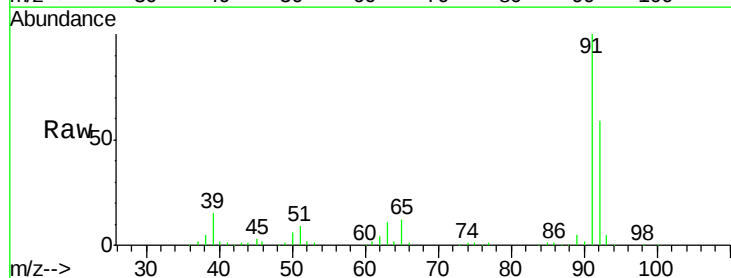
Acq: 19 Jun 2018 16:31

Tgt Ion: 92 Resp: 346092

Ion Ratio Lower Upper

92 100

91 170.5 133.2 199.8





#53

t-1,3-Dichloropropene

Concen: 20.90 ug/l

RT: 9.19 min Scan# 911

Delta R.T. 0.00 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

Instrument :

MSVOA_D

ClientSampleId :

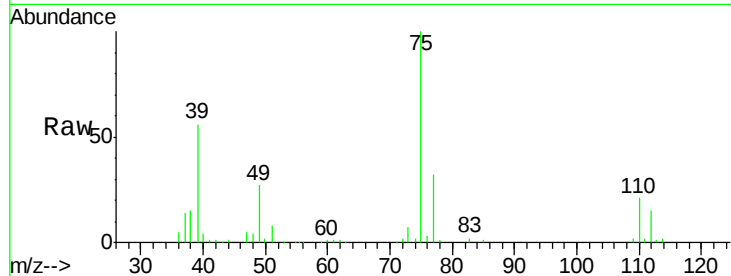
VSTDIC020

Tot Ion: 75 Resp: 221453

Ion Ratio Lower Upper

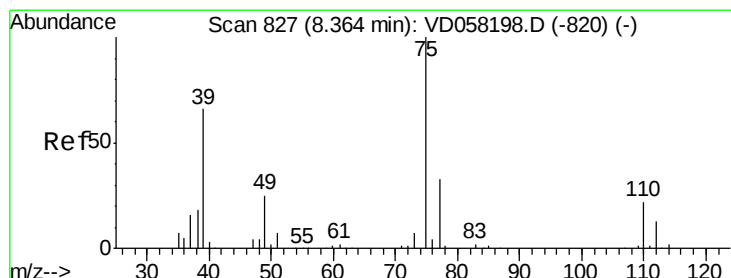
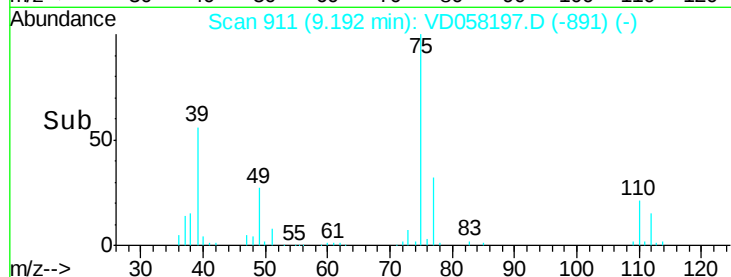
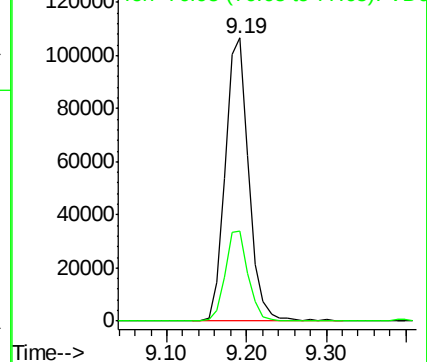
75 100

77 31.6 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#54

cis-1,3-Dichloropropene

Concen: 20.86 ug/l

RT: 8.36 min Scan# 827

Delta R.T. 0.00 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

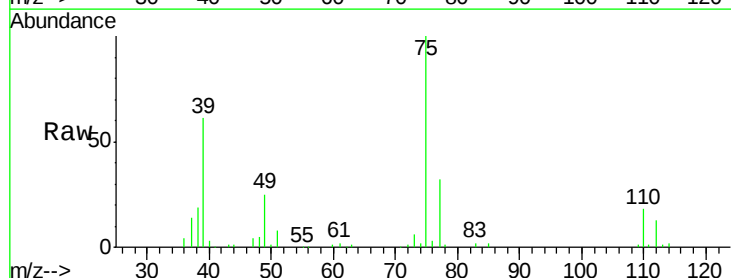
Tgt Ion: 75 Resp: 259596

Ion Ratio Lower Upper

75 100

77 32.2 26.5 39.7

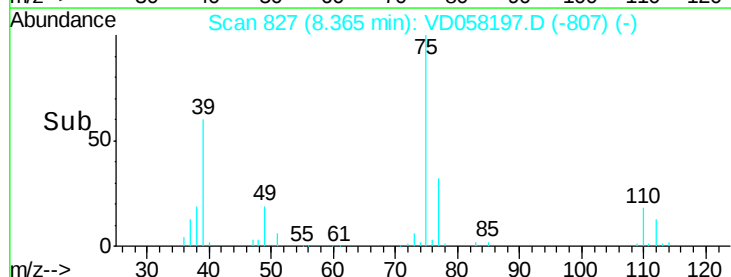
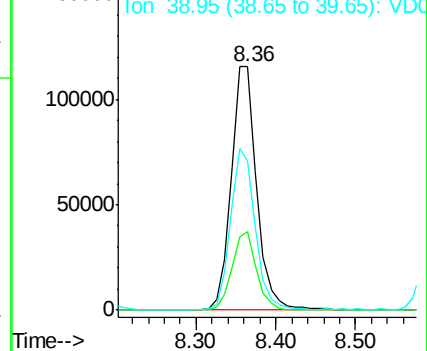
39 61.4 52.9 79.3

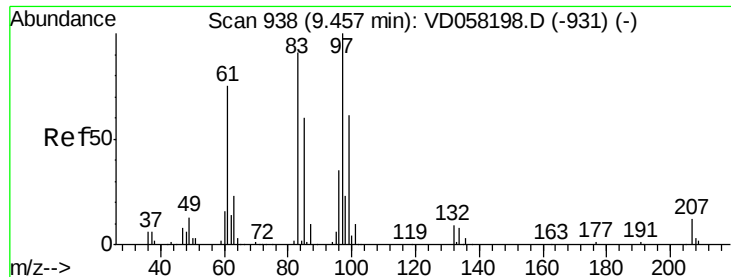


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC





#55

1,1,2-Trichloroethane

Concen: 21.22 ug/l

RT: 9.46 min Scan# 938

Delta R.T. 0.00 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 97 Resp: 117209

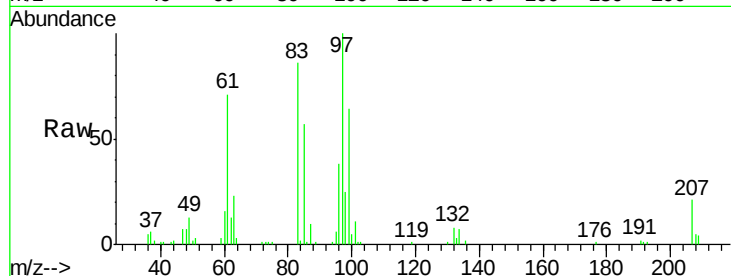
Ion Ratio Lower Upper

97 100

83 85.7 72.9 109.3

85 57.3 48.2 72.4

99 63.7 48.9 73.3

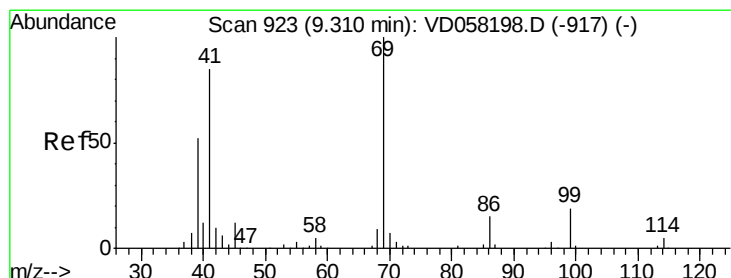
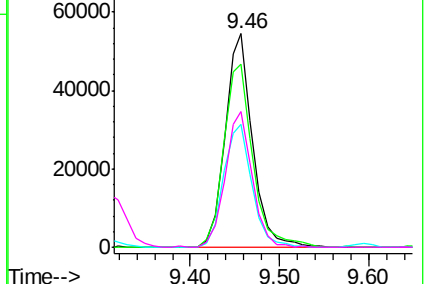
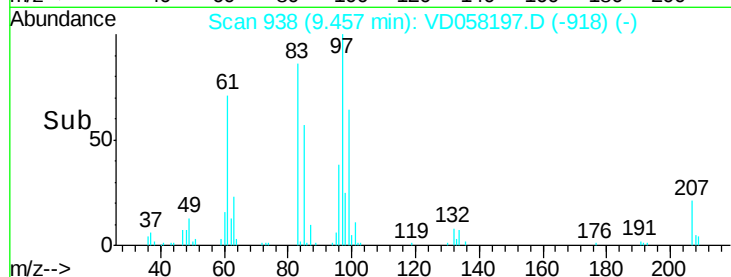


Abundance Ion 96.85 (96.55 to 97.55): VDC

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: 20.44 ug/l

RT: 9.31 min Scan# 923

Delta R.T. 0.00 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

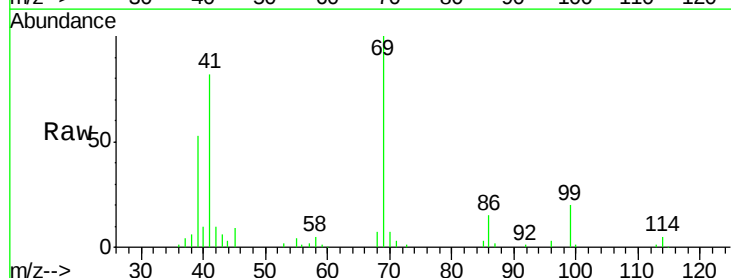
Tgt Ion: 69 Resp: 138635

Ion Ratio Lower Upper

69 100

41 82.2 67.6 101.4

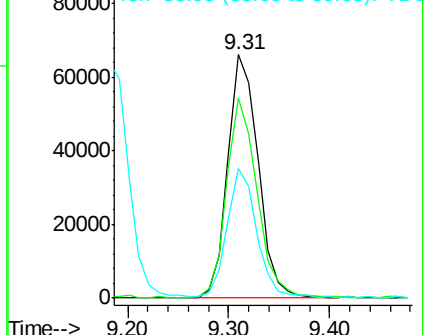
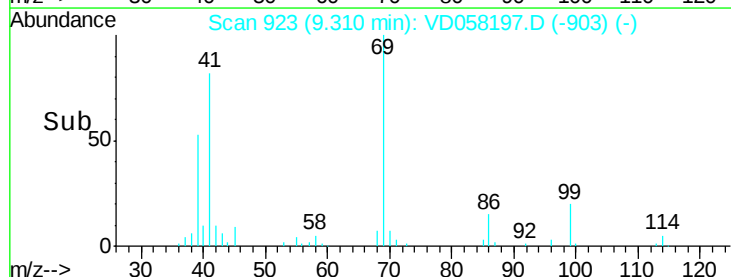
39 53.1 42.2 63.2

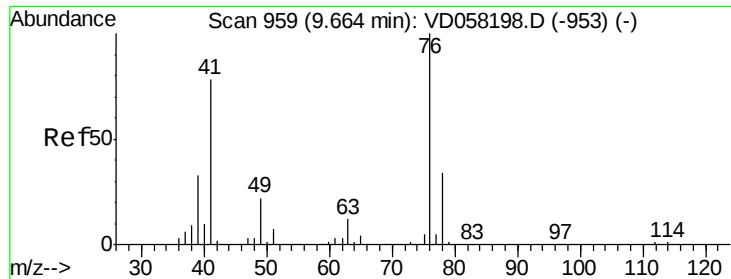


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

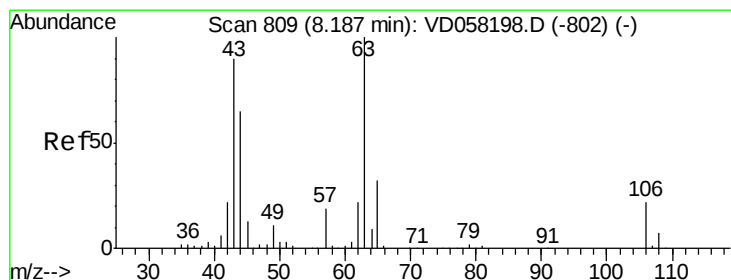
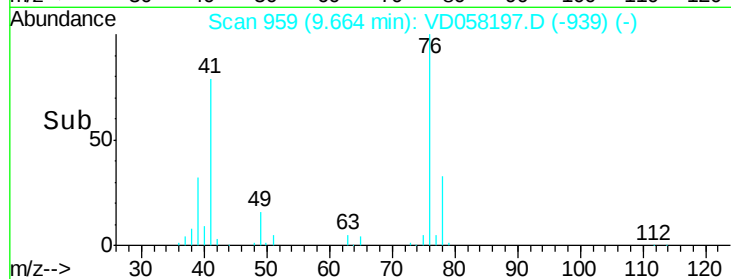
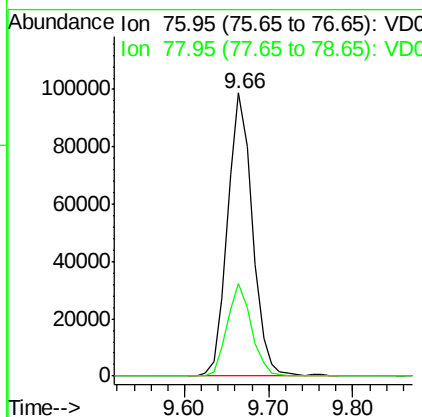
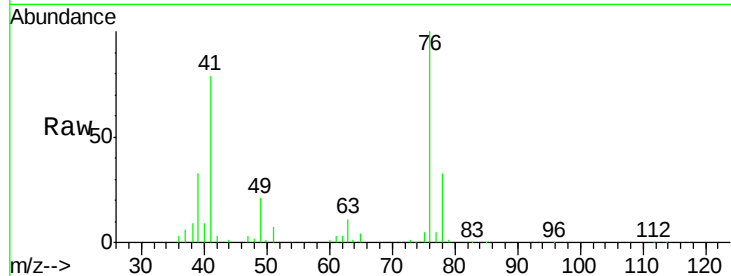




#57
 1,3-Dichloropropane
 Concen: 21.18 ug/l
 RT: 9.66 min Scan# 959
 Delta R.T. 0.00 min
 Lab File: VD058197.D
 Acq: 19 Jun 2018 16:31

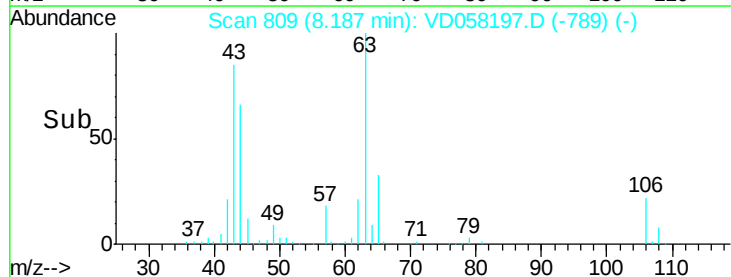
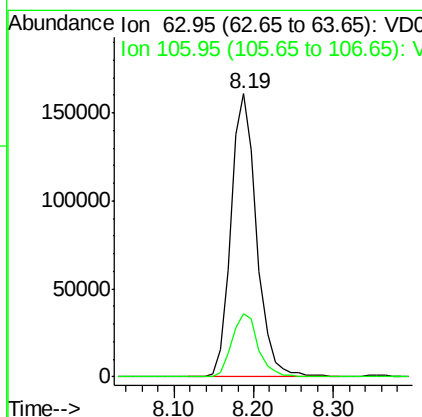
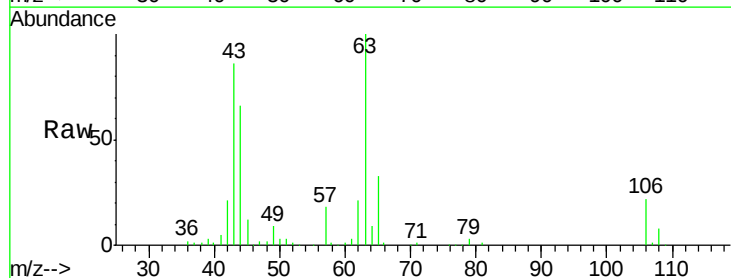
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

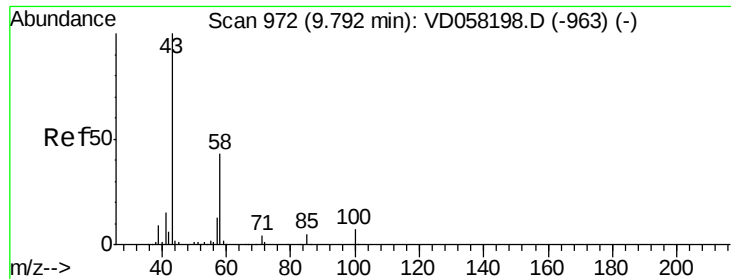
Tot Ion: 76 Resp: 202834
 Ion Ratio Lower Upper
 76 100
 78 32.9 27.0 40.6



#58
 2-Chloroethyl Vinyl ether
 Concen: 104.85 ug/l
 RT: 8.19 min Scan# 809
 Delta R.T. 0.00 min
 Lab File: VD058197.D
 Acq: 19 Jun 2018 16:31

Tgt Ion: 63 Resp: 360735
 Ion Ratio Lower Upper
 63 100
 106 22.5 18.0 27.0

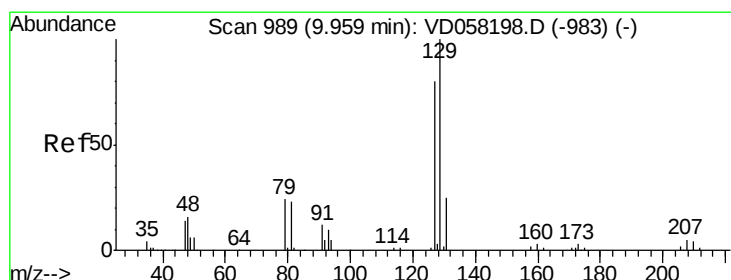
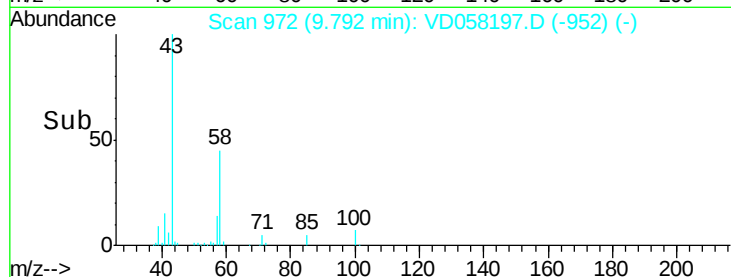
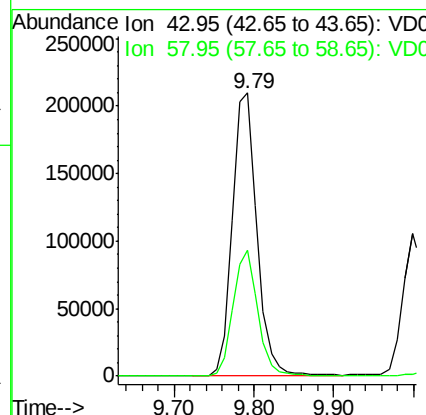
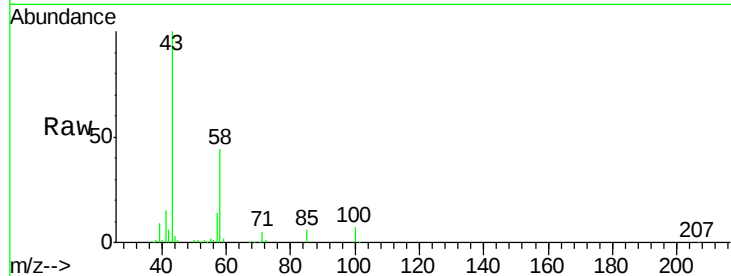




#59
2-Hexanone
Concen: 107.43 ug/l
RT: 9.79 min Scan# 972
Delta R.T. 0.00 min
Lab File: VD058197.D
Acq: 19 Jun 2018 16:31

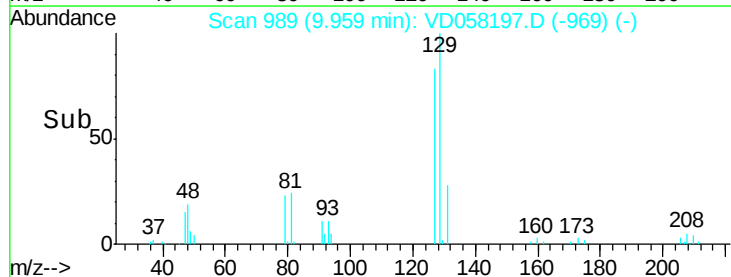
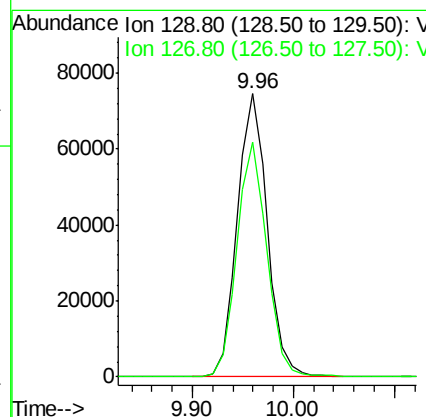
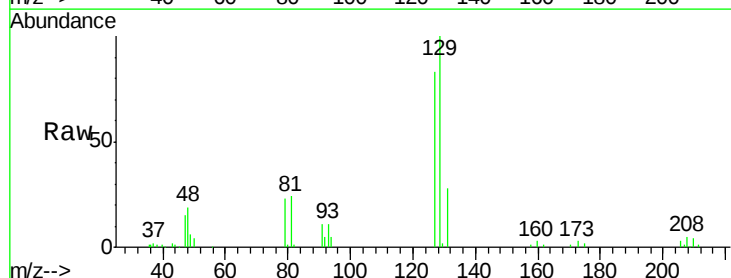
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

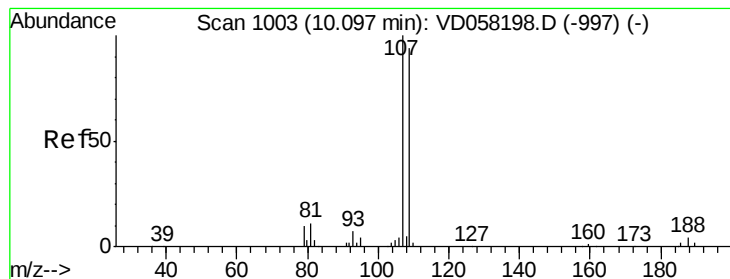
Tot Ion: 43 Resp: 458701
Ion Ratio Lower Upper
43 100
58 44.5 21.7 65.1



#60
Dibromochloromethane
Concen: 19.80 ug/l
RT: 9.96 min Scan# 989
Delta R.T. 0.00 min
Lab File: VD058197.D
Acq: 19 Jun 2018 16:31

Tgt Ion: 129 Resp: 153303
Ion Ratio Lower Upper
129 100
127 83.1 39.8 119.4





#61

1,2-Dibromoethane

Concen: 20.56 ug/l

RT: 10.10 min Scan# 1003

Delta R.T. 0.00 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

Instrument :

MSVOA_D

ClientSampleId :

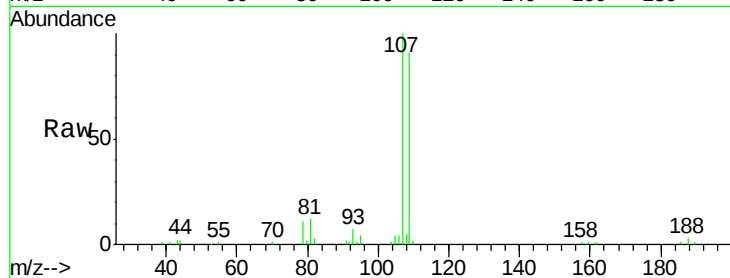
VSTDIC020

Tot Ion:107 Resp: 130337

Ion Ratio Lower Upper

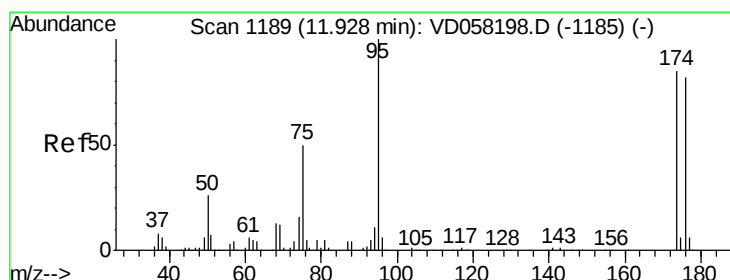
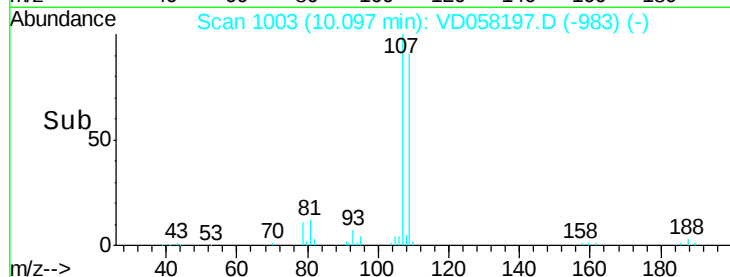
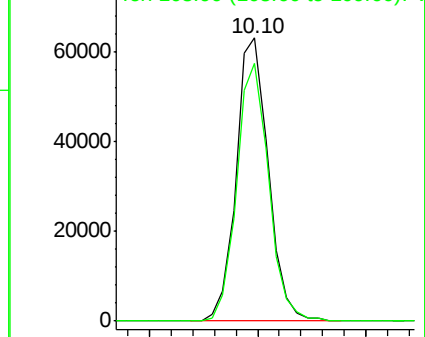
107 100

109 91.2 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: 20.56 ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.00 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

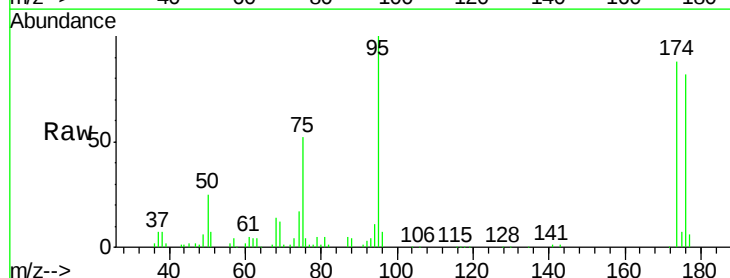
Tgt Ion: 95 Resp: 191504

Ion Ratio Lower Upper

95 100

174 88.3 0.0 170.2

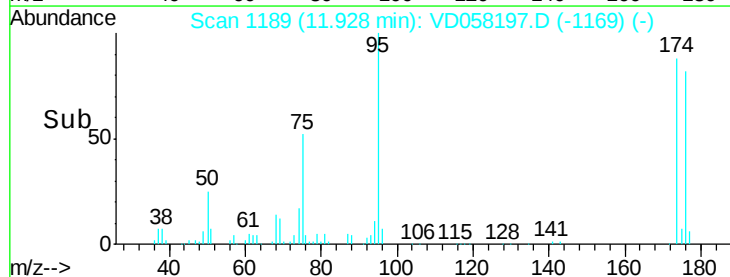
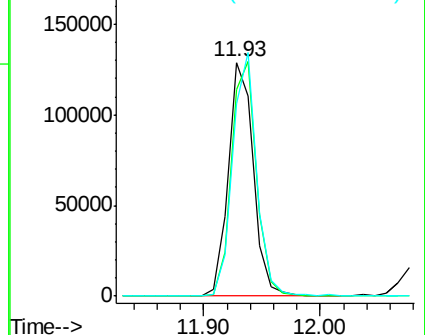
176 82.2 0.0 164.6

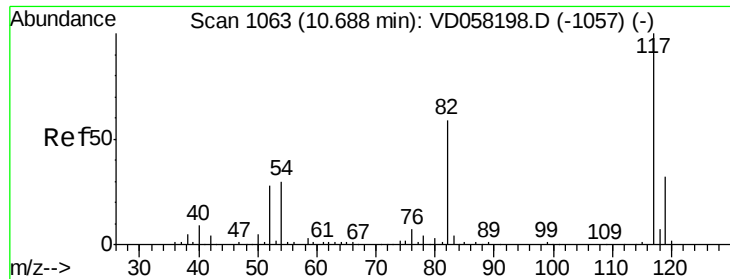


Abundance Ion 95.00 (94.70 to 95.70): V

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: VD058197.D

Acq: 19 Jun 2018 16:31

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

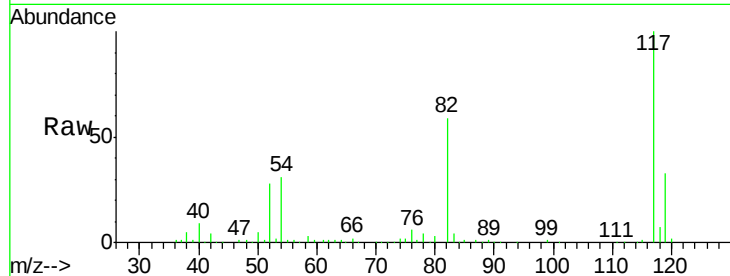
Tot Ion:117 Resp: 939525

Ion Ratio Lower Upper

117 100

82 59.2 47.0 70.6

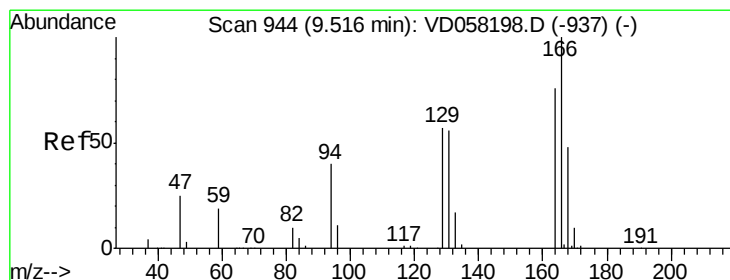
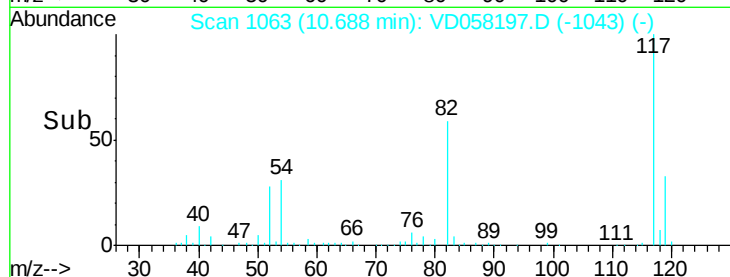
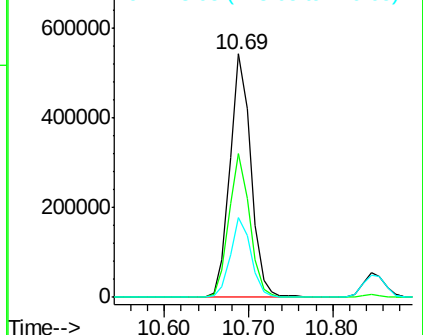
119 32.6 25.3 37.9



Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



#64

Tetrachloroethene

Concen: 19.36 ug/l

RT: 9.52 min Scan# 944

Delta R.T. 0.00 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

Tgt Ion:164 Resp: 160553

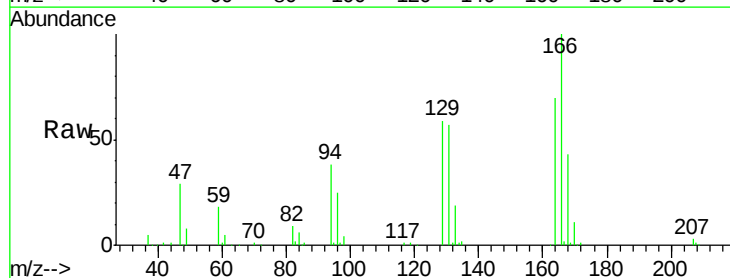
Ion Ratio Lower Upper

164 100

166 143.8 105.4 158.0

129 84.8 59.6 89.4

131 82.3 59.4 89.2

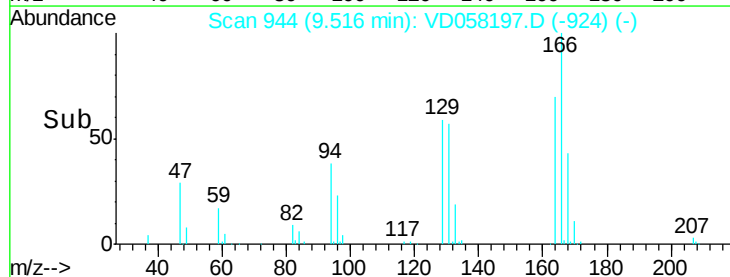
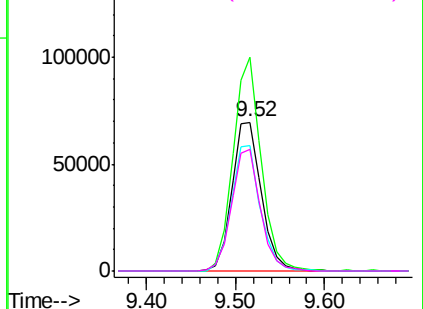


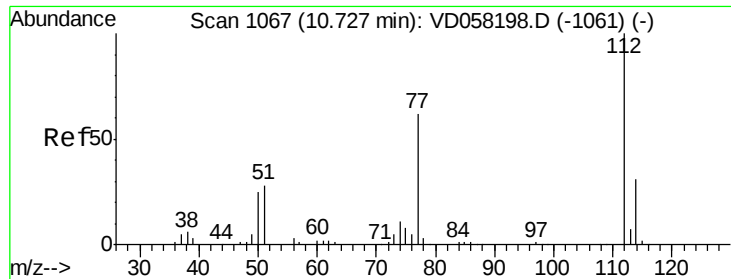
Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.85 (165.55 to 166.55): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V

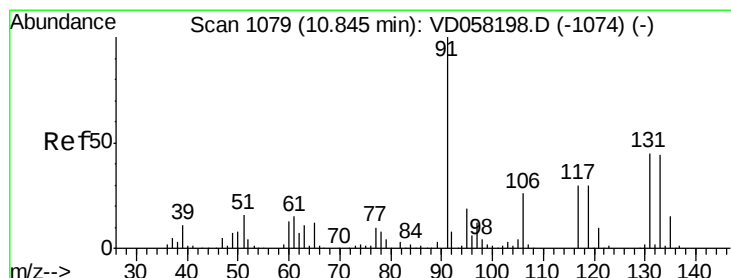
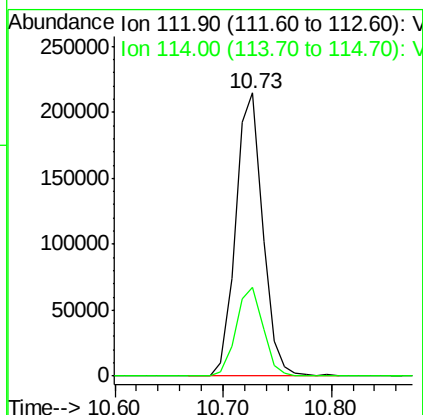
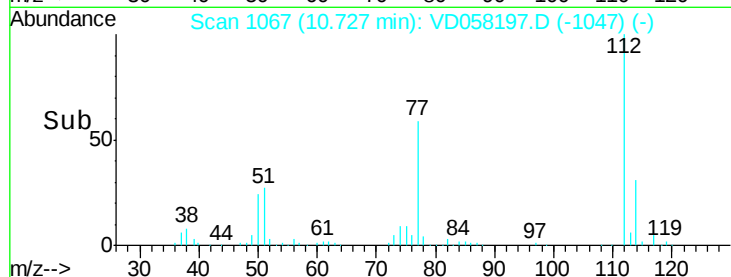
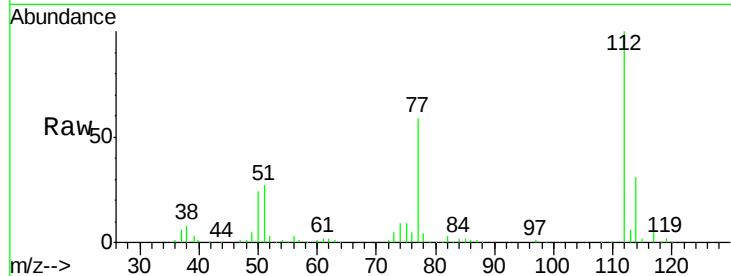




#65
Chlorobenzene
Concen: 20.10 ug/l
RT: 10.73 min Scan# 1067
Delta R.T. 0.00 min
Lab File: VD058197.D
Acq: 19 Jun 2018 16:31

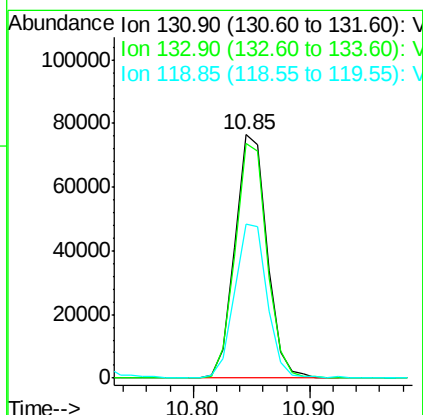
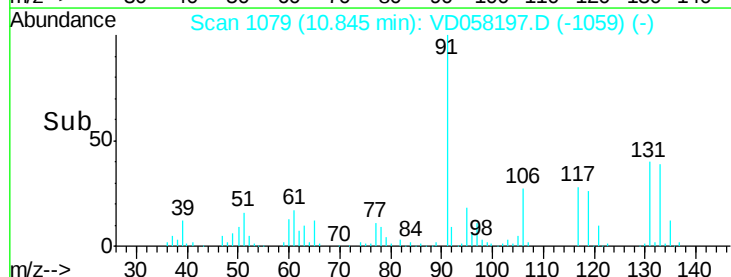
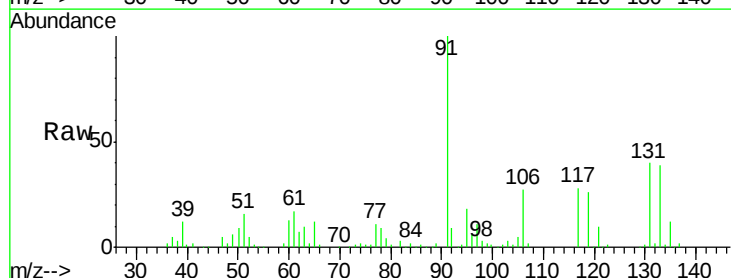
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion:112 Resp: 375165
Ion Ratio Lower Upper
112 100
114 31.2 25.0 37.4



#66
1,1,1,2-Tetrachloroethane
Concen: 20.25 ug/l
RT: 10.85 min Scan# 1079
Delta R.T. 0.00 min
Lab File: VD058197.D
Acq: 19 Jun 2018 16:31

Tgt Ion:131 Resp: 145472
Ion Ratio Lower Upper
131 100
133 96.3 48.6 145.9
119 63.3 33.0 99.0

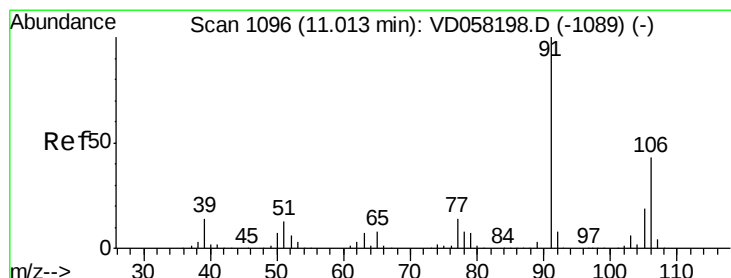
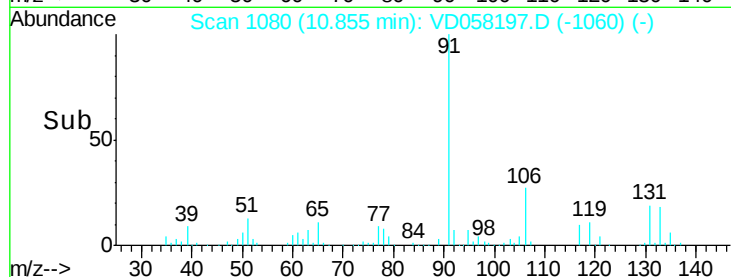
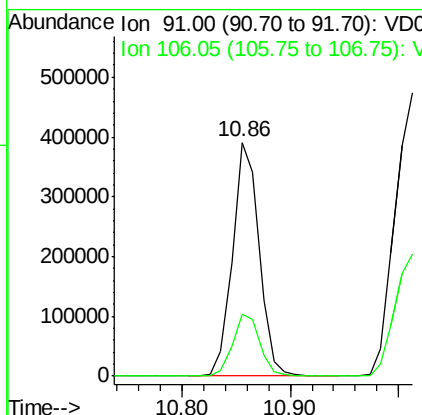
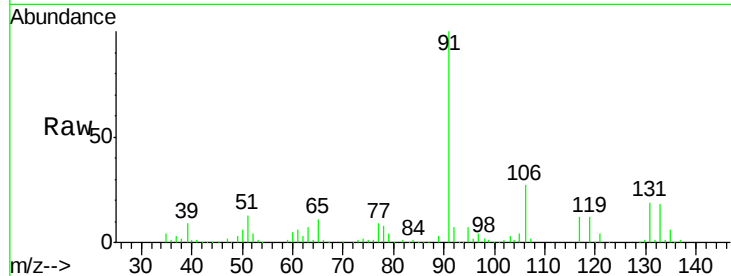




#67
Ethyl Benzene
Concen: 19.86 ug/l
RT: 10.86 min Scan# 1080
Delta R.T. 0.00 min
Lab File: VD058197.D
Acq: 19 Jun 2018 16:31

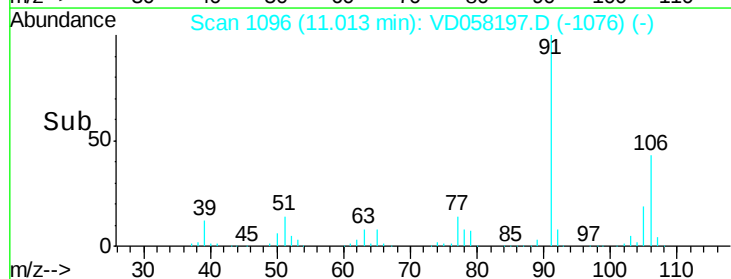
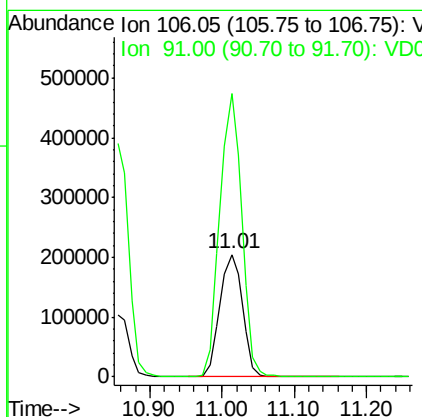
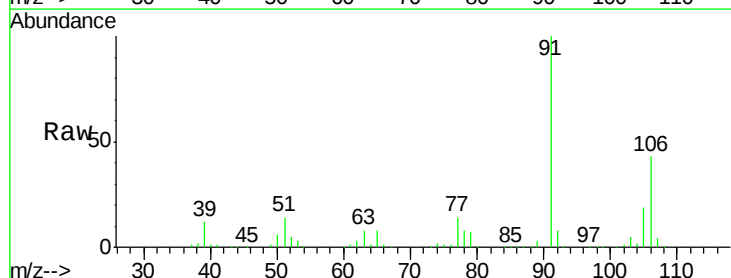
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

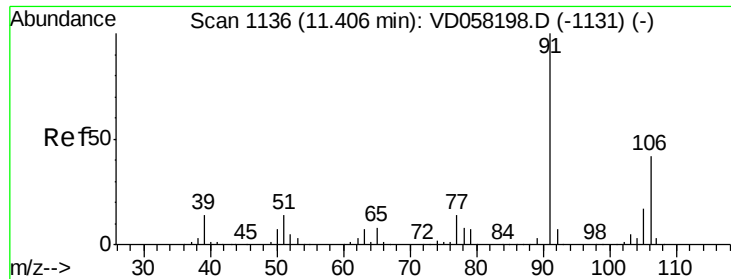
Tot Ion: 91 Resp: 666737
Ion Ratio Lower Upper
91 100
106 26.8 22.0 33.0



#68
m/p-Xylenes
Concen: 40.66 ug/l
RT: 11.01 min Scan# 1096
Delta R.T. 0.00 min
Lab File: VD058197.D
Acq: 19 Jun 2018 16:31

Tgt Ion: 106 Resp: 447546
Ion Ratio Lower Upper
106 100
91 231.6 185.0 277.6

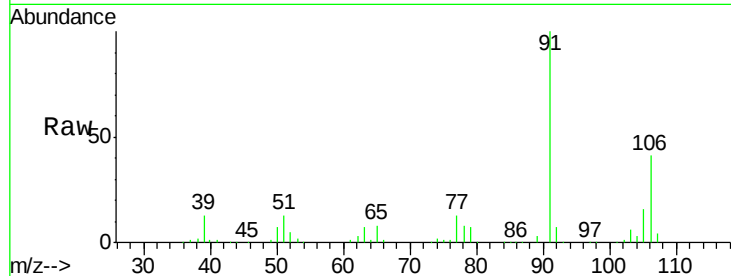




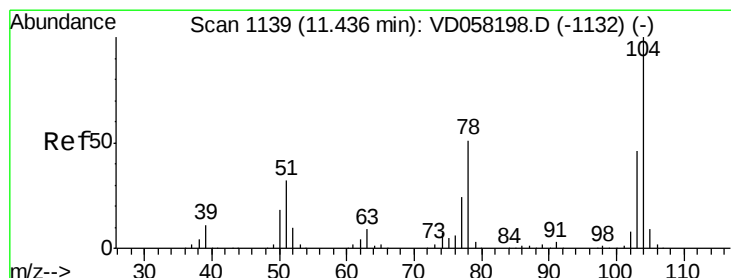
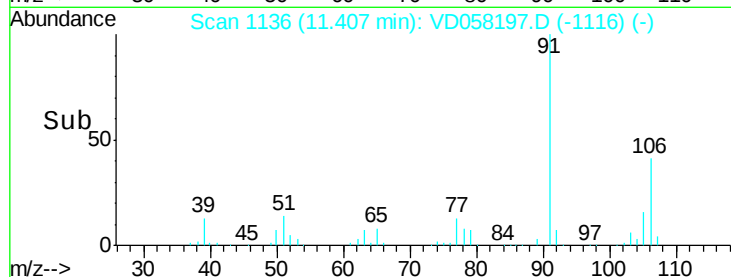
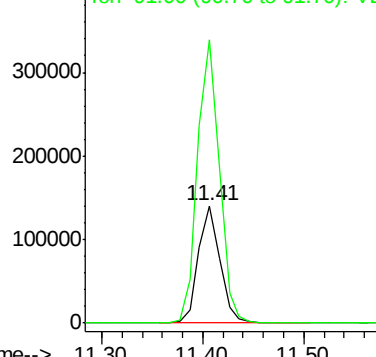
#69
o-Xylene
Concen: 19.33 ug/l
RT: 11.41 min Scan# 1136
Delta R.T. 0.00 min
Lab File: VD058197.D
Acq: 19 Jun 2018 16:31

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion:106 Resp: 208968
Ion Ratio Lower Upper
106 100
91 241.8 120.2 360.6

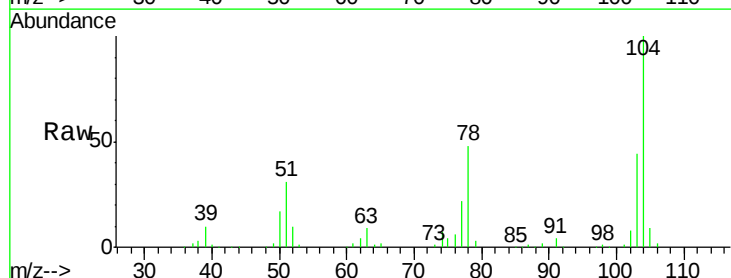


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

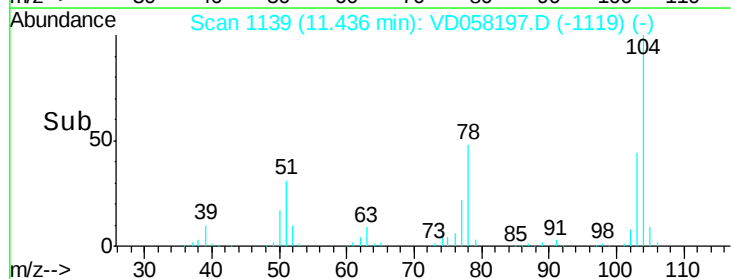
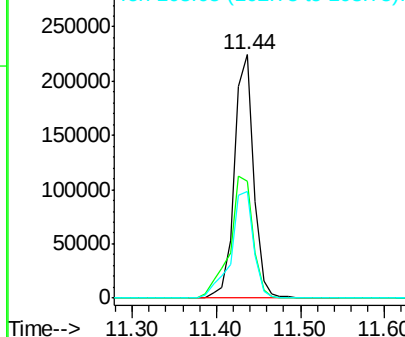


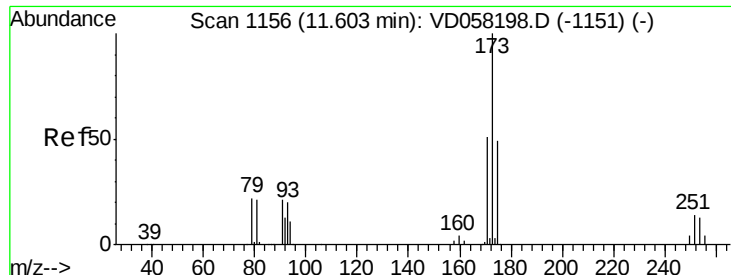
#70
Styrene
Concen: 19.78 ug/l
RT: 11.44 min Scan# 1139
Delta R.T. 0.00 min
Lab File: VD058197.D
Acq: 19 Jun 2018 16:31

Tgt Ion:104 Resp: 355973
Ion Ratio Lower Upper
104 100
78 48.1 40.8 61.2
103 43.8 37.0 55.6



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





#71

Bromoform

Concen: 20.47 ug/l

RT: 11.60 min Scan# 1156

Delta R.T. 0.00 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

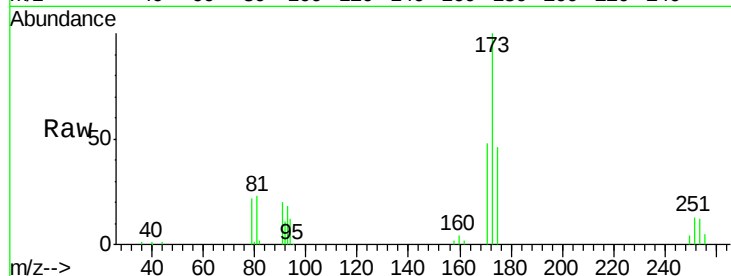
Tot Ion:173 Resp: 112781

Ion Ratio Lower Upper

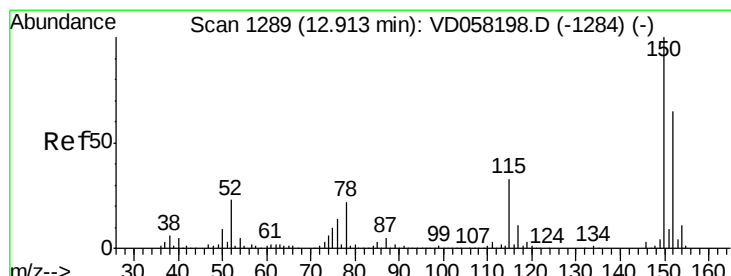
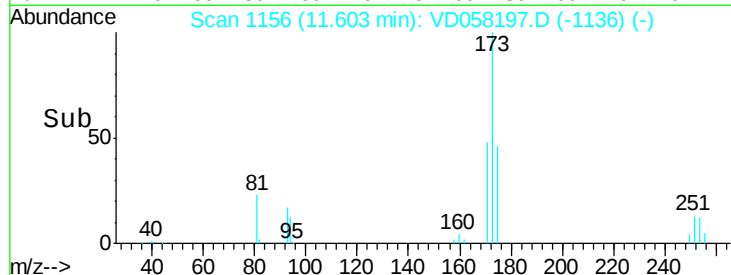
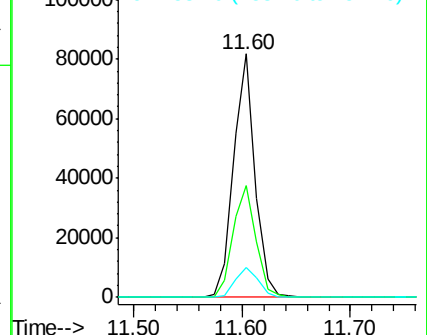
173 100

175 46.0 24.6 74.0

254 12.1 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: VD058197.D

Acq: 19 Jun 2018 16:31

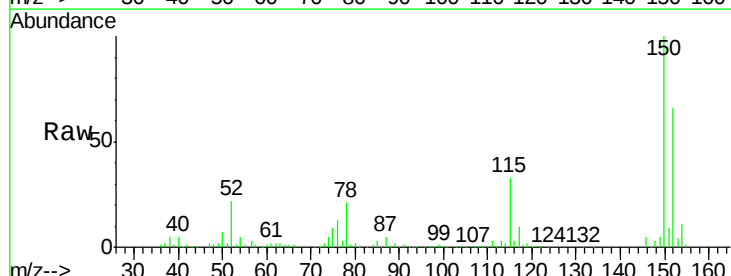
Tgt Ion:152 Resp: 515046

Ion Ratio Lower Upper

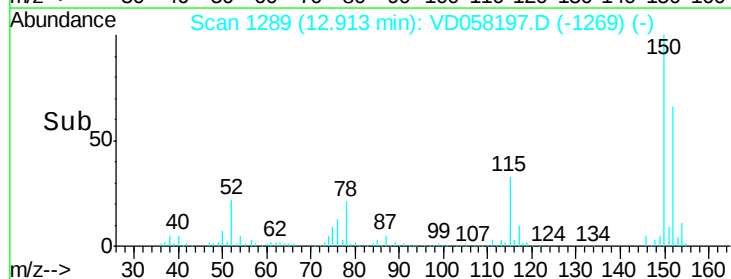
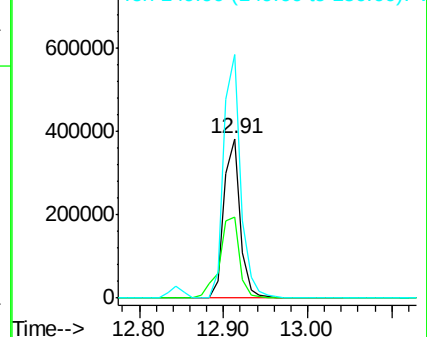
152 100

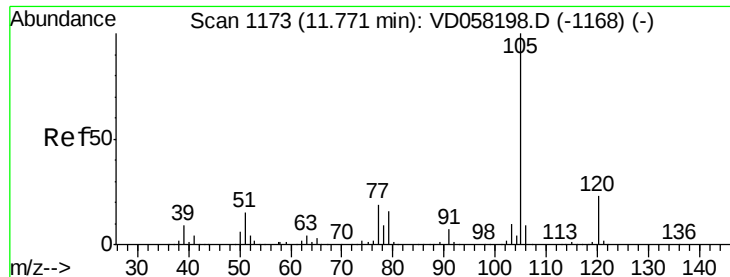
115 50.6 25.1 75.3

150 152.4 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: 19.03 ug/l

RT: 11.77 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

Instrument :

MSVOA_D

ClientSampleId :

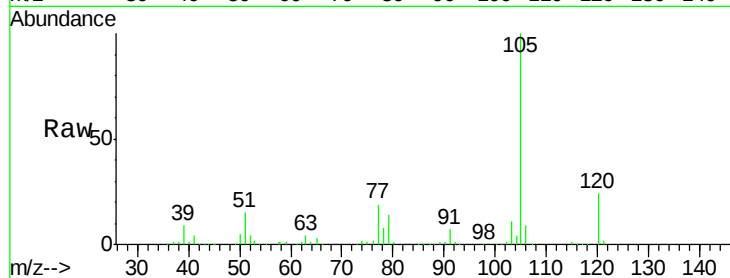
VSTDIC020

Tot Ion:105 Resp: 636551

Ion Ratio Lower Upper

105 100

120 23.7 11.6 34.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

11.77

400000

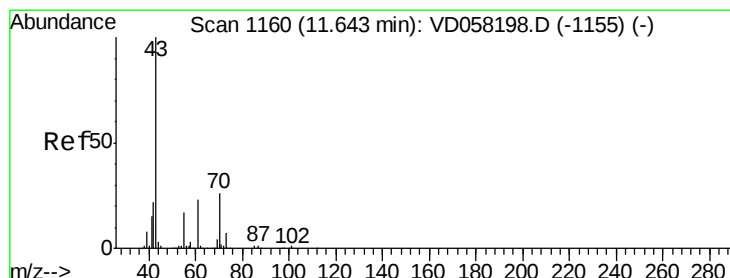
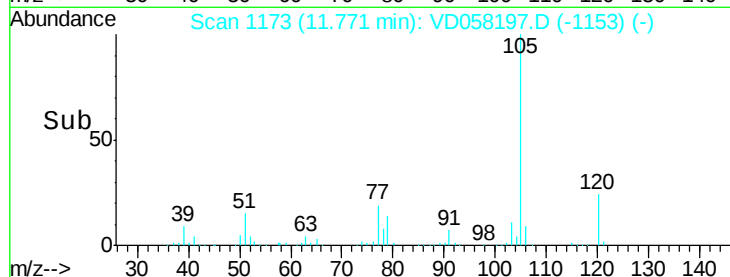
300000

200000

100000

0

Time--> 11.70 11.80 11.90



#74

N-ethyl acetate

Concen: 18.48 ug/l

RT: 11.64 min Scan# 1160

Delta R.T. 0.00 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

Tgt Ion: 43 Resp: 242156

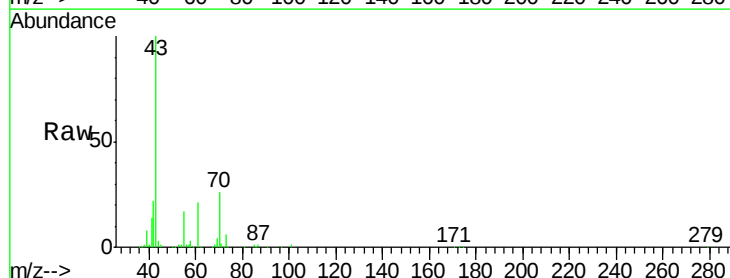
Ion Ratio Lower Upper

43 100

70 25.9 20.9 31.3

55 17.1 13.5 20.3

61 21.2 18.2 27.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC

11.64

250000

200000

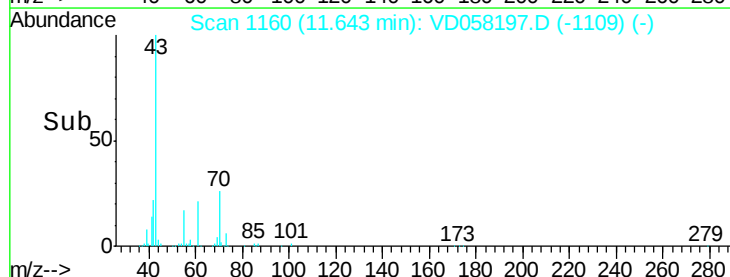
150000

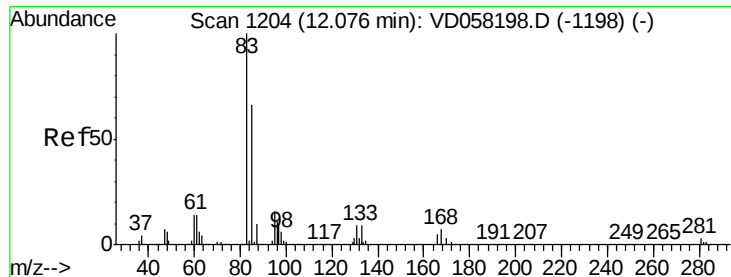
100000

50000

0

Time--> 11.60 11.70





#75

1,1,2,2-Tetrachloroethane

Concen: 18.92 ug/l

RT: 12.08 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

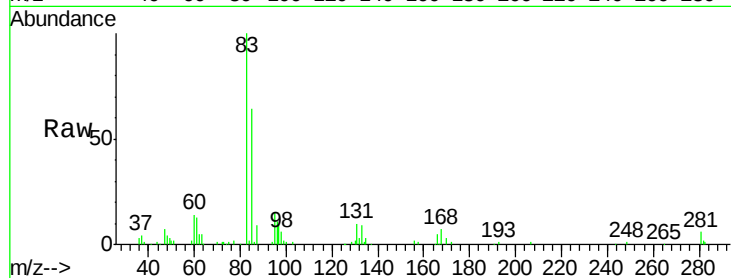
Tot Ion: 83 Resp: 141376

Ion Ratio Lower Upper

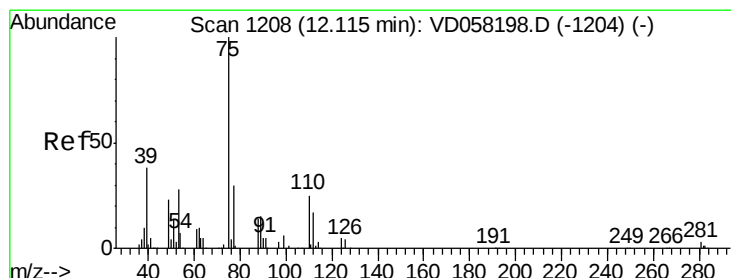
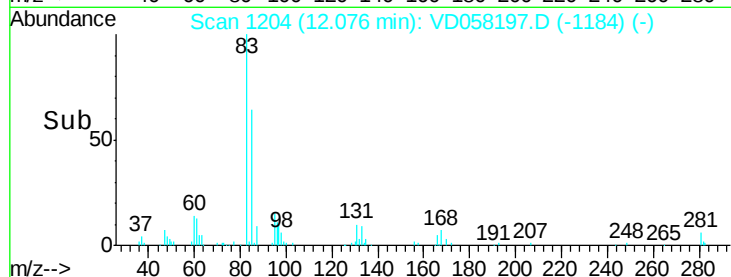
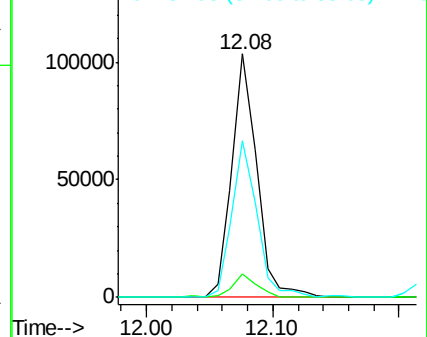
83 100

131 9.6 4.8 14.3

85 64.4 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: 20.29 ug/l

RT: 12.12 min Scan# 1208

Delta R.T. 0.00 min

Lab File: VD058197.D

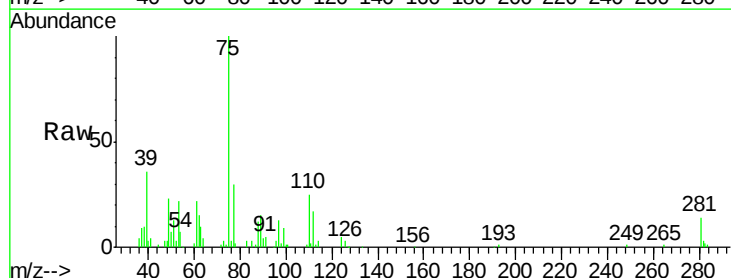
Acq: 19 Jun 2018 16:31

Tgt Ion: 75 Resp: 157725

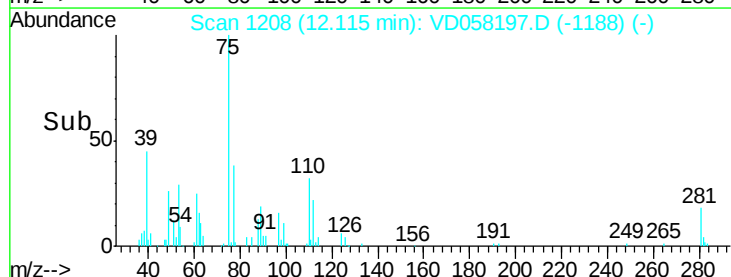
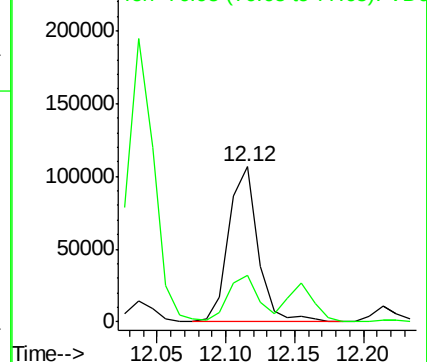
Ion Ratio Lower Upper

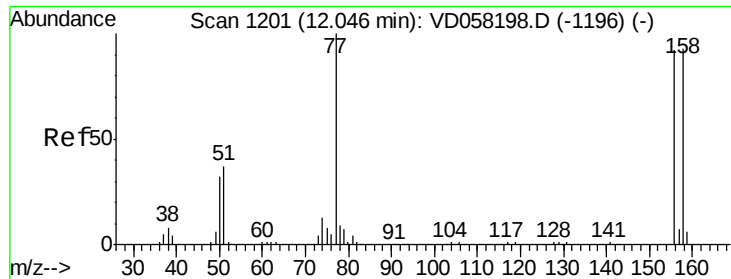
75 100

77 30.0 16.0 47.9



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 76.95 (76.65 to 77.65): VDC

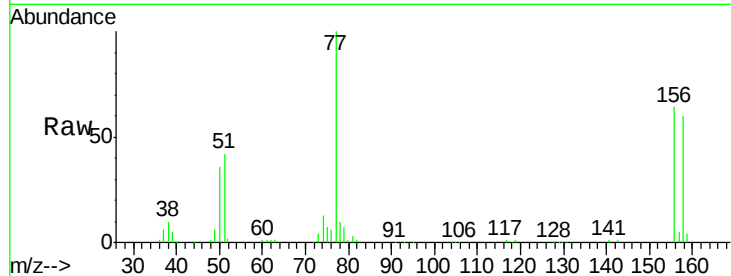




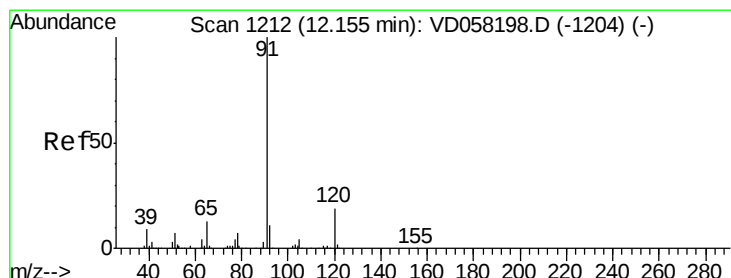
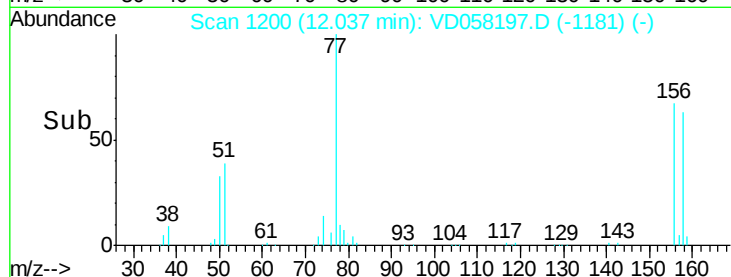
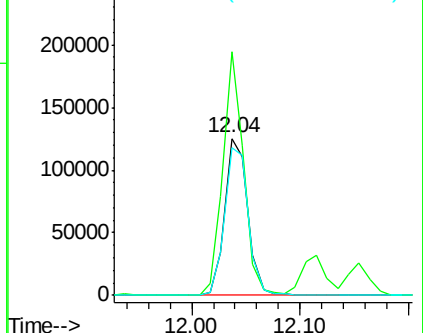
#77
Bromobenzene
Concen: 18.65 ug/l
RT: 12.04 min Scan# 1200
Delta R.T. -0.01 min
Lab File: VD058197.D
Acq: 19 Jun 2018 16:31

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion:156 Resp: 185250
Ion Ratio Lower Upper
156 100
77 155.1 54.5 163.6
158 93.7 50.8 152.5

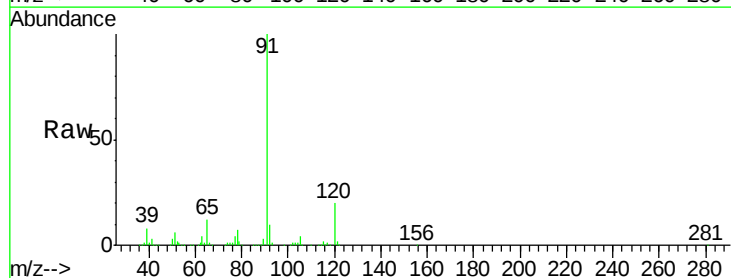


Abundance Ion 155.90 (155.60 to 156.60): V
Ion 76.95 (76.65 to 77.65): VDC
Ion 157.85 (157.55 to 158.55): V

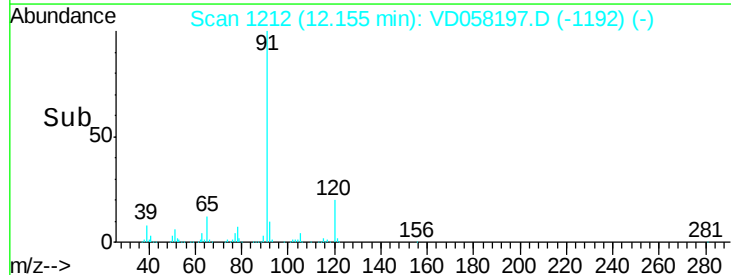
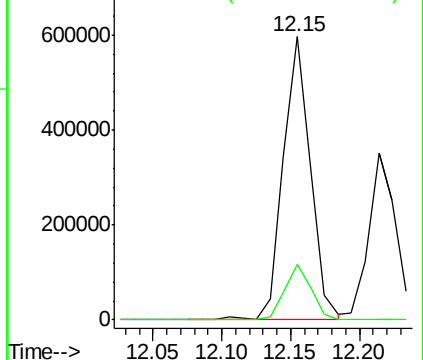


#78
n-propylbenzene
Concen: 18.48 ug/l
RT: 12.15 min Scan# 1212
Delta R.T. 0.00 min
Lab File: VD058197.D
Acq: 19 Jun 2018 16:31

Tgt Ion: 91 Resp: 808375
Ion Ratio Lower Upper
91 100
120 19.5 9.7 29.1



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

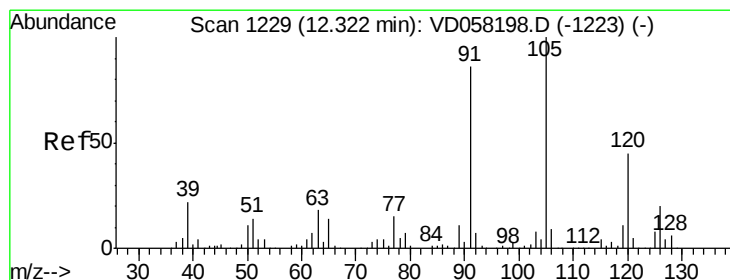
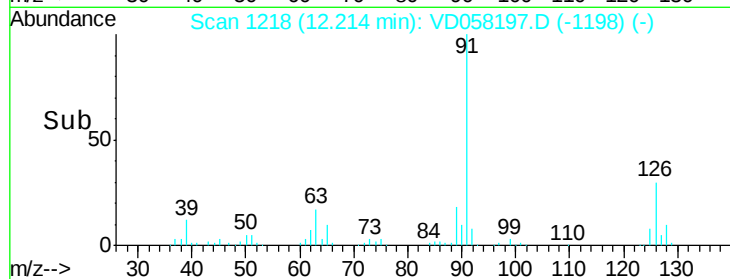
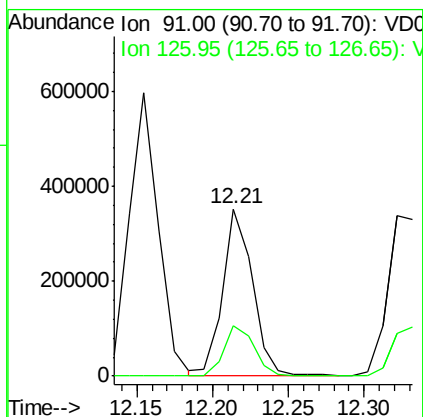
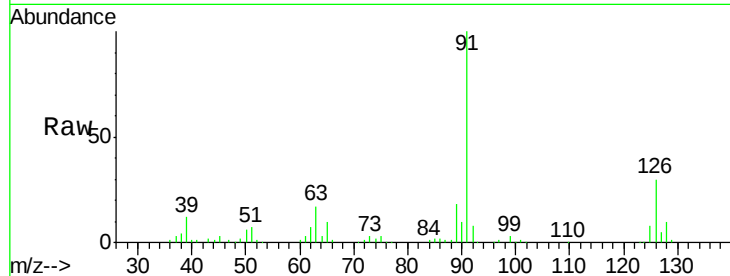




#79
 2-Chlorotoluene
 Concen: 19.16 ug/l
 RT: 12.21 min Scan# 1218
 Delta R.T. 0.00 min
 Lab File: VD058197.D
 Acq: 19 Jun 2018 16:31

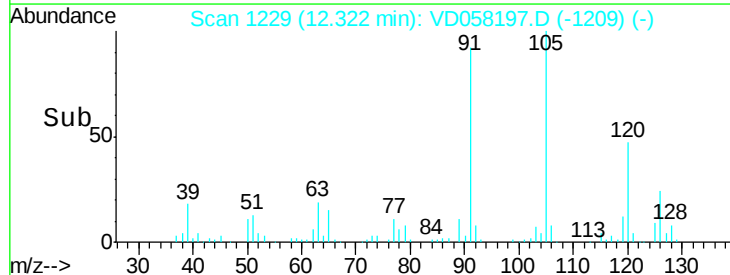
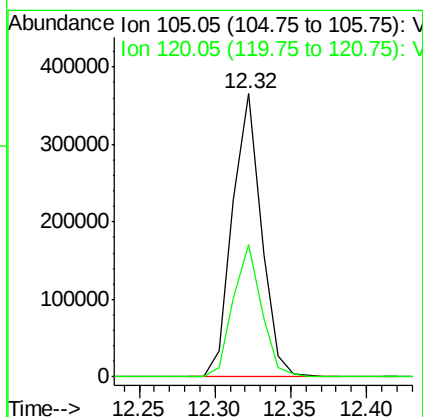
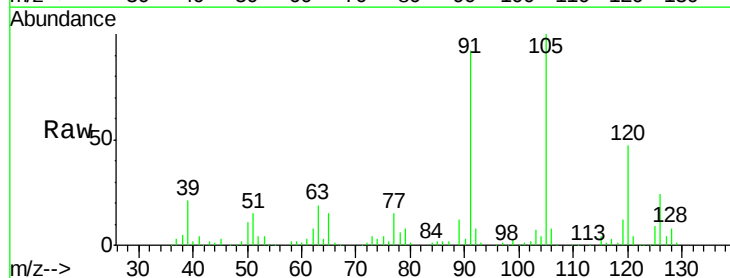
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion: 91 Resp: 477607
 Ion Ratio Lower Upper
 91 100
 126 30.1 14.9 44.5



#80
 1,3,5-Trimethylbenzene
 Concen: 18.41 ug/l
 RT: 12.32 min Scan# 1229
 Delta R.T. 0.00 min
 Lab File: VD058197.D
 Acq: 19 Jun 2018 16:31

Tgt Ion: 105 Resp: 484666
 Ion Ratio Lower Upper
 105 100
 120 46.6 22.5 67.5

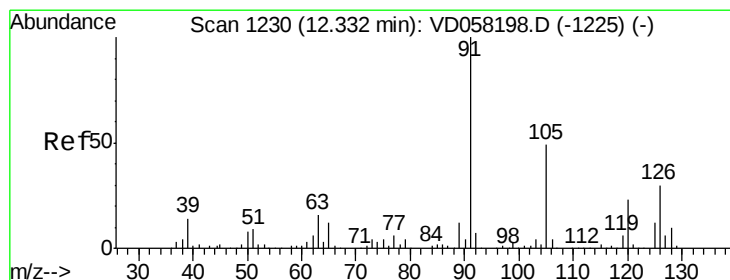
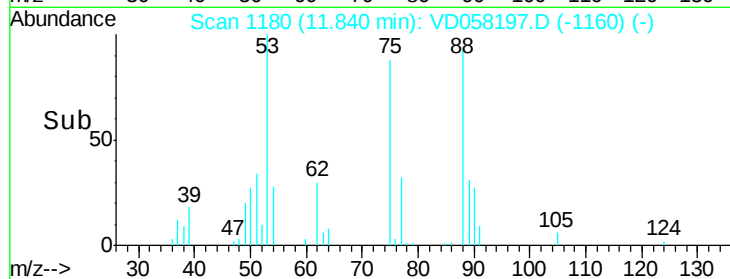
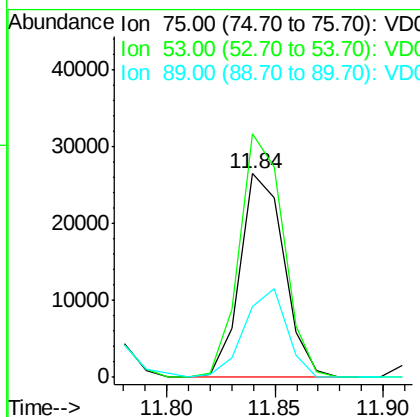
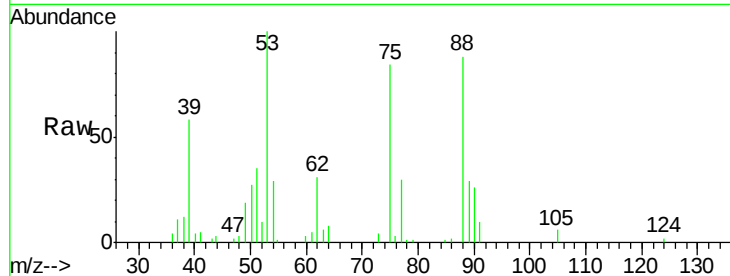




#81
trans-1,4-Dichloro-2-butene
Concen: 19.56 ug/l
RT: 11.84 min Scan# 1180
Delta R.T. 0.00 min
Lab File: VD058197.D
Acq: 19 Jun 2018 16:31

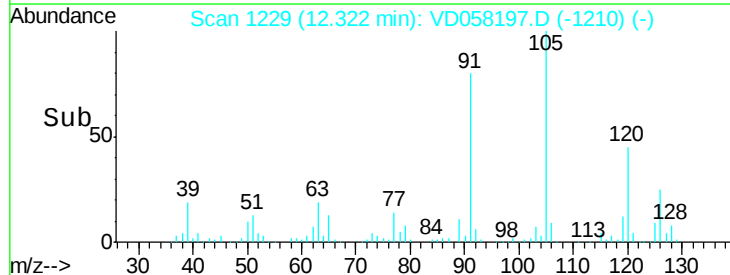
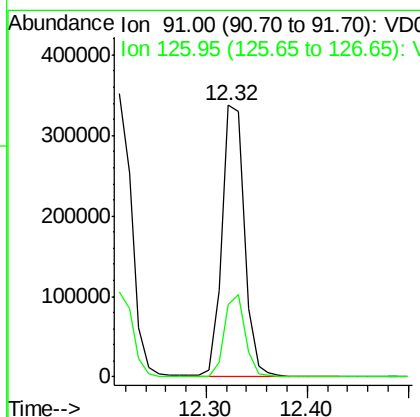
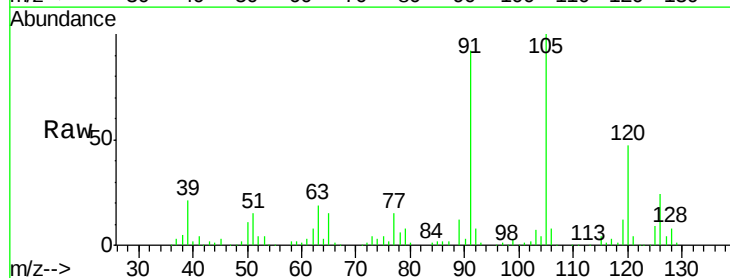
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

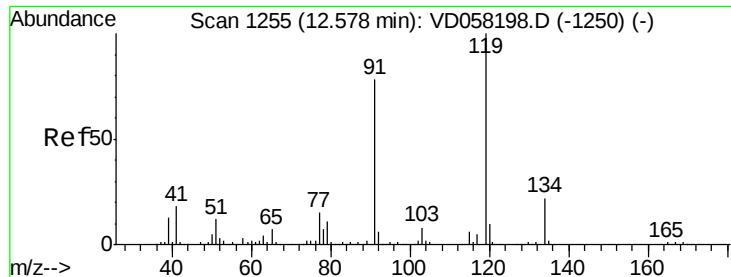
Tot Ion: 75 Resp: 37461
Ion Ratio Lower Upper
75 100
53 119.7 100.8 151.2
89 34.8 34.6 52.0



#82
4-Chlorotoluene
Concen: 19.25 ug/l
RT: 12.32 min Scan# 1229
Delta R.T. -0.01 min
Lab File: VD058197.D
Acq: 19 Jun 2018 16:31

Tgt Ion: 91 Resp: 529413
Ion Ratio Lower Upper
91 100
126 26.4 14.9 44.9





#83

tert-Butylbenzene

Concen: 19.33 ug/l

RT: 12.58 min Scan# 1255

Delta R.T. 0.00 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

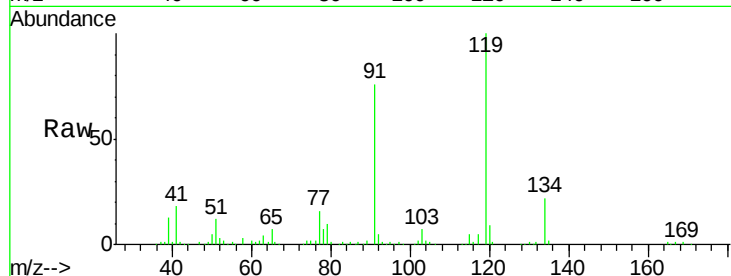
Tot Ion:119 Resp: 572176

Ion Ratio Lower Upper

119 100

91 76.4 38.9 116.6

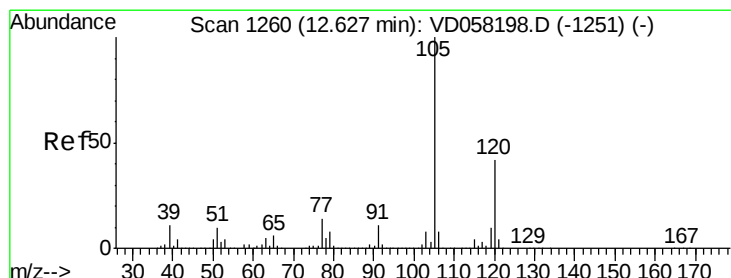
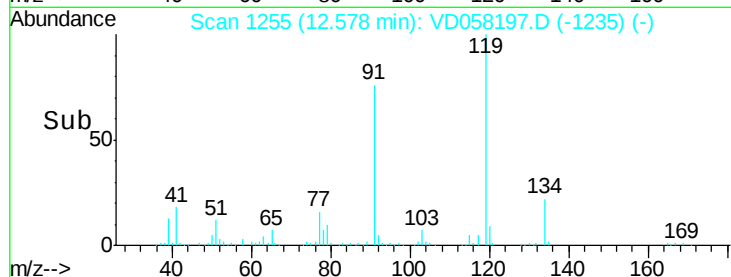
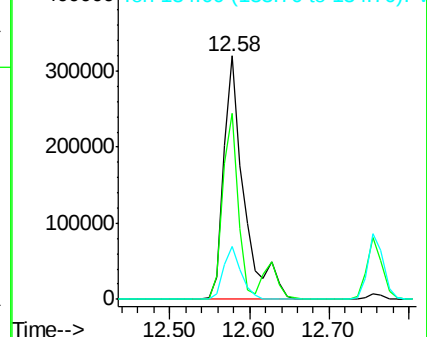
134 22.0 11.2 33.5



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 19.17 ug/l

RT: 12.63 min Scan# 1260

Delta R.T. 0.00 min

Lab File: VD058197.D

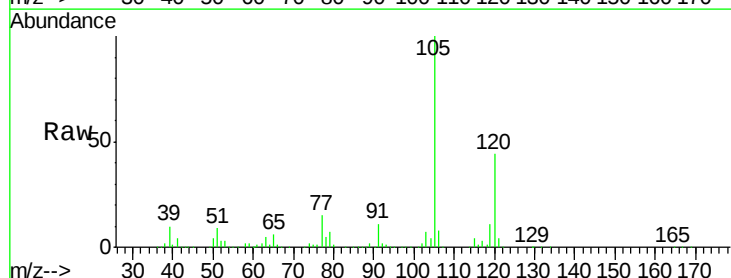
Acq: 19 Jun 2018 16:31

Tgt Ion:105 Resp: 538909

Ion Ratio Lower Upper

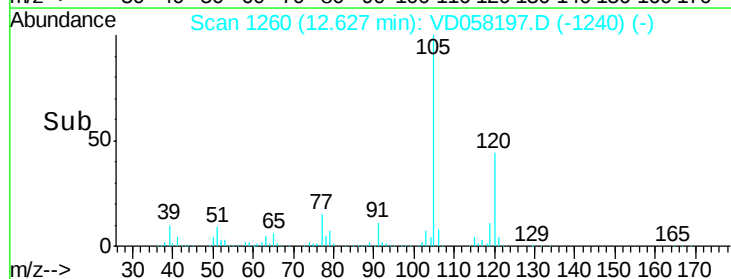
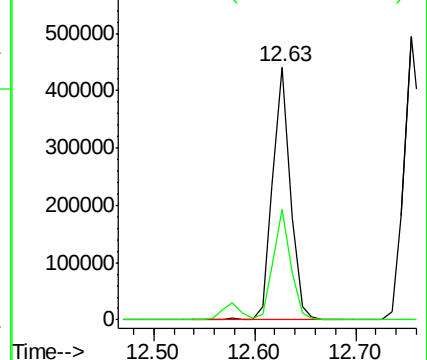
105 100

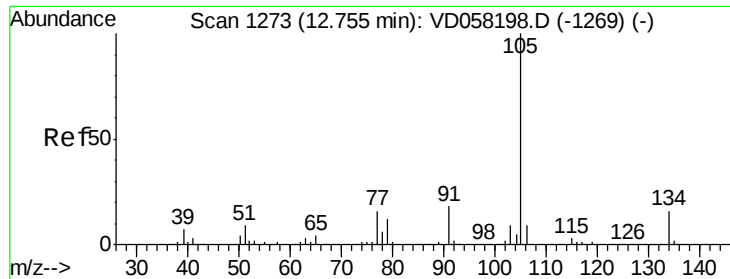
120 43.7 20.8 62.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#85

sec-Butylbenzene

Concen: 17.86 ug/l

RT: 12.76 min Scan# 1273

Delta R.T. 0.00 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

Instrument :

MSVOA_D

ClientSampleId :

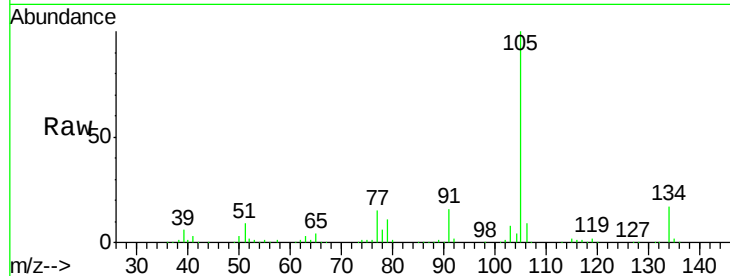
VSTDIC020

Tot Ion:105 Resp: 638915

Ion Ratio Lower Upper

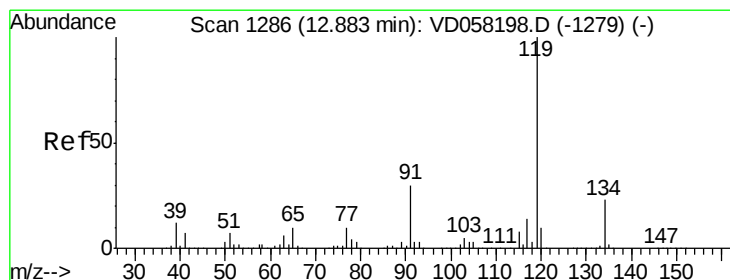
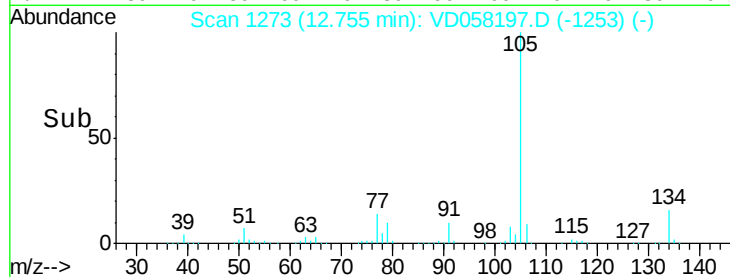
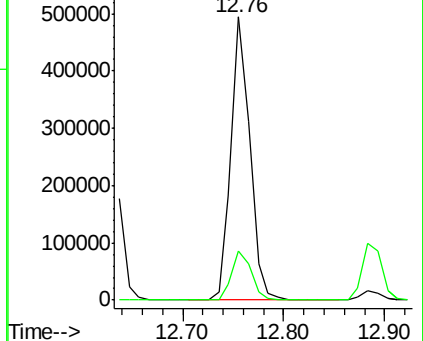
105 100

134 17.3 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: 19.10 ug/l

RT: 12.88 min Scan# 1286

Delta R.T. 0.00 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

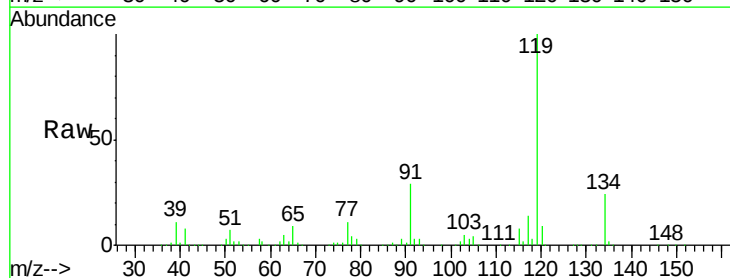
Tgt Ion:119 Resp: 546784

Ion Ratio Lower Upper

119 100

134 24.2 11.6 34.8

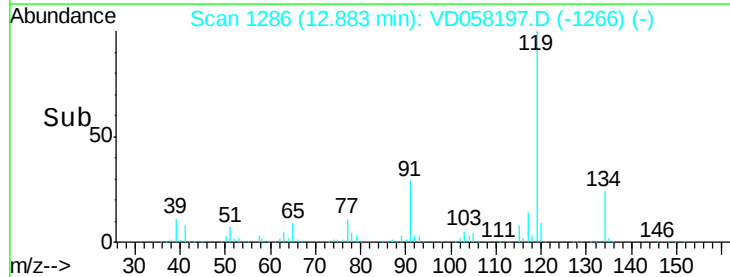
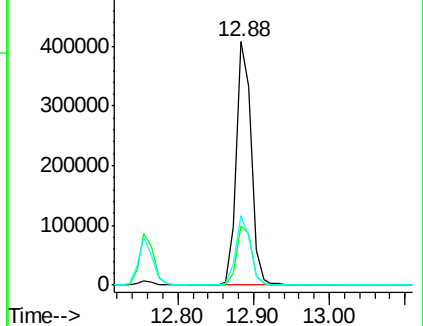
91 28.7 15.0 45.1



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

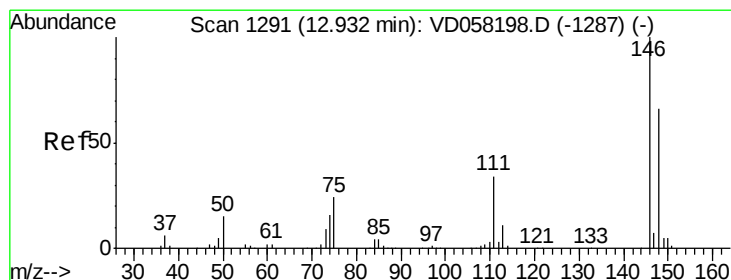
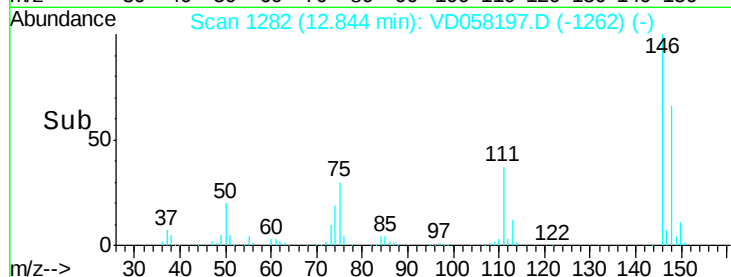
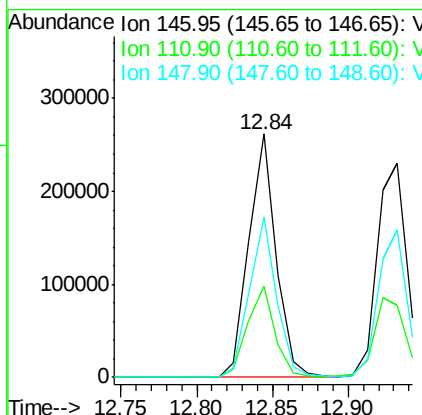
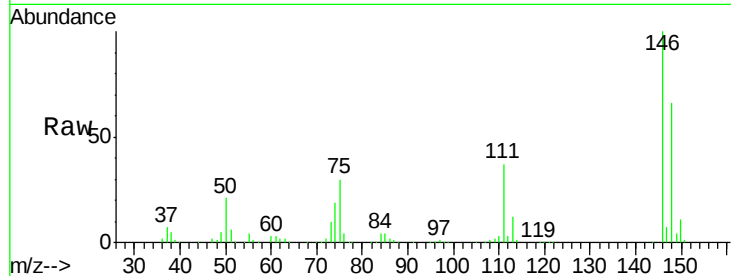




#87
 1,3-Dichlorobenzene
 Concen: 19.47 ug/l
 RT: 12.84 min Scan# 1282
 Delta R.T. 0.00 min
 Lab File: VD058197.D
 Acq: 19 Jun 2018 16:31

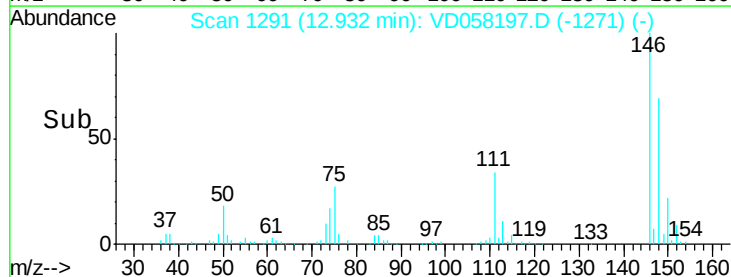
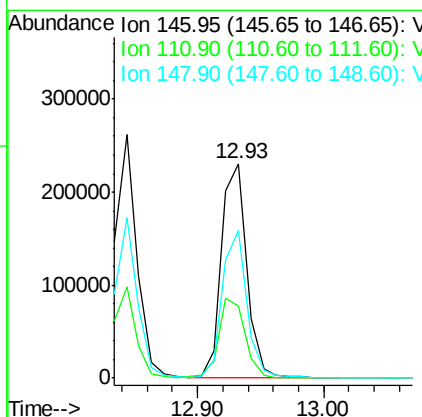
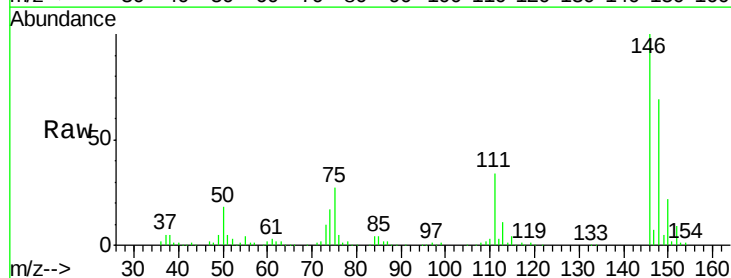
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

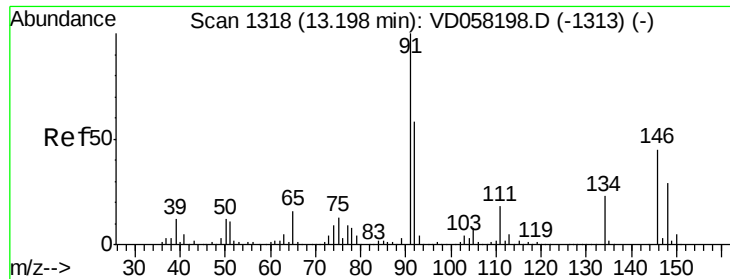
Tot Ion:146 Resp: 328886
 Ion Ratio Lower Upper
 146 100
 111 37.3 18.4 55.0
 148 65.8 32.8 98.4



#88
 1,4-Dichlorobenzene
 Concen: 19.26 ug/l
 RT: 12.93 min Scan# 1291
 Delta R.T. 0.00 min
 Lab File: VD058197.D
 Acq: 19 Jun 2018 16:31

Tgt Ion:146 Resp: 318744
 Ion Ratio Lower Upper
 146 100
 111 33.6 17.2 51.5
 148 69.0 33.1 99.3

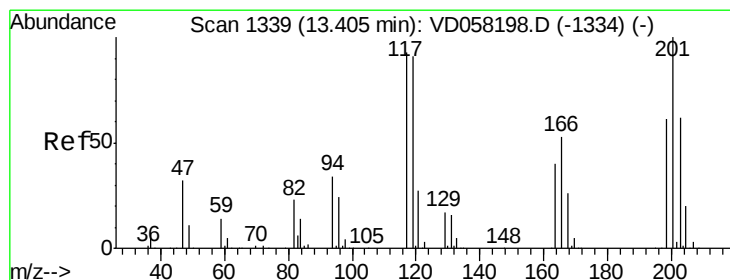
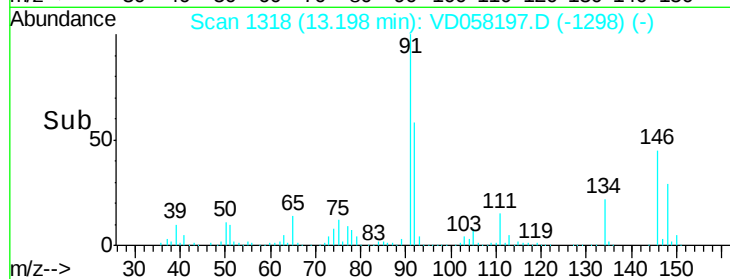
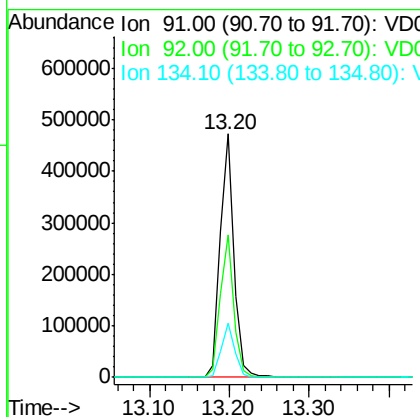
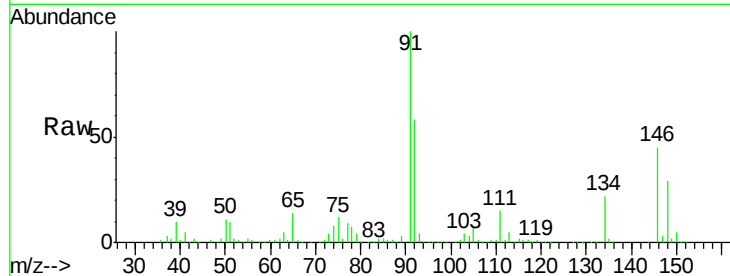




#89
n-Butylbenzene
Concen: 19.50 ug/l
RT: 13.20 min Scan# 1318
Delta R.T. 0.00 min
Lab File: VD058197.D
Acq: 19 Jun 2018 16:31

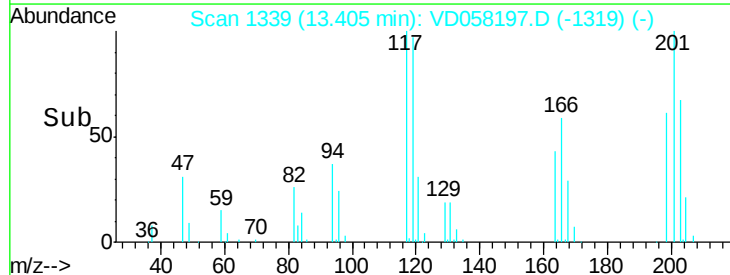
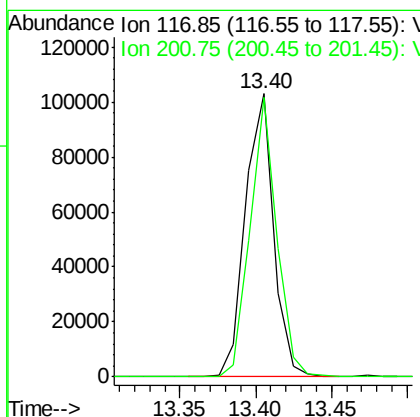
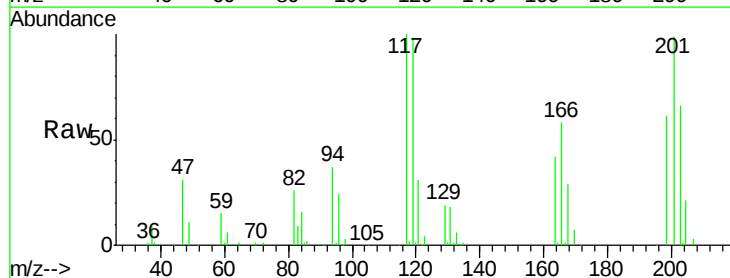
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

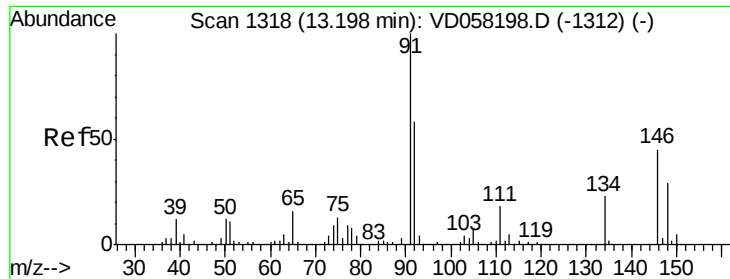
Tot Ion: 91 Resp: 581030
Ion Ratio Lower Upper
91 100
92 58.3 29.2 87.6
134 22.5 11.3 33.8



#90
Hexachloroethane
Concen: 18.16 ug/l
RT: 13.40 min Scan# 1339
Delta R.T. 0.00 min
Lab File: VD058197.D
Acq: 19 Jun 2018 16:31

Tgt Ion: 117 Resp: 133467
Ion Ratio Lower Upper
117 100
201 98.9 53.8 161.4

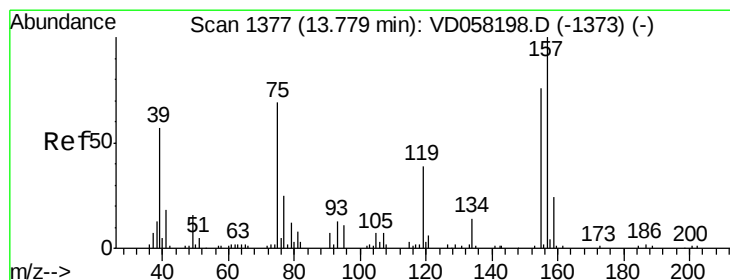
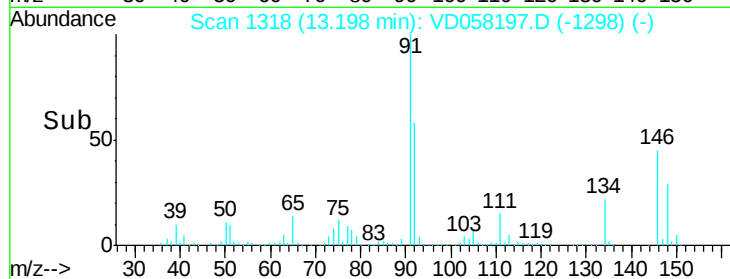
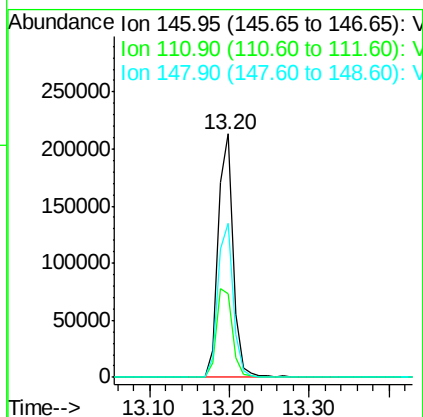
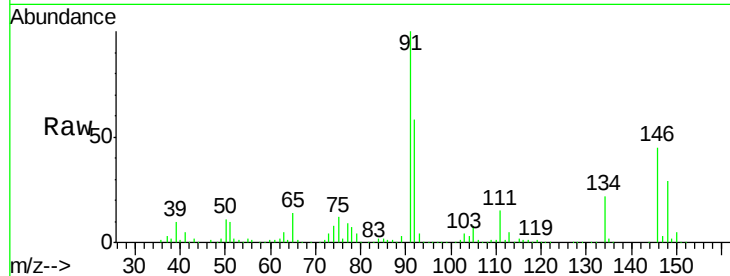




#91
 1,2-Dichlorobenzene
 Concen: 20.54 ug/l
 RT: 13.20 min Scan# 1318
 Delta R.T. 0.00 min
 Lab File: VD058197.D
 Acq: 19 Jun 2018 16:31

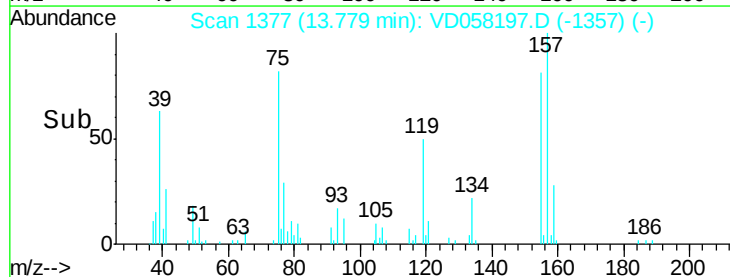
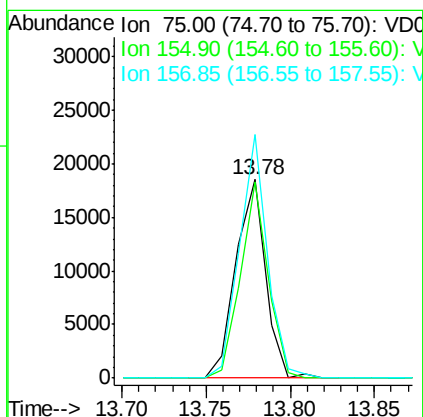
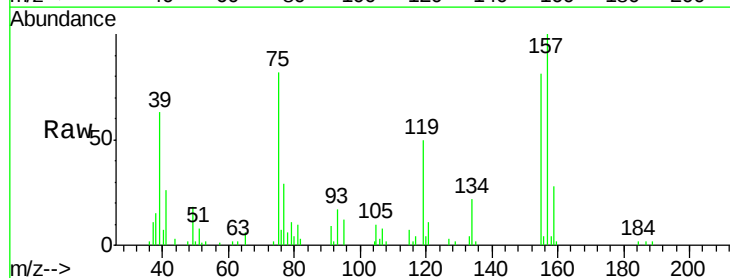
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion:146 Resp: 285215
 Ion Ratio Lower Upper
 146 100
 111 34.3 19.6 58.7
 148 63.5 32.0 96.2



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.63 ug/l
 RT: 13.78 min Scan# 1377
 Delta R.T. 0.00 min
 Lab File: VD058197.D
 Acq: 19 Jun 2018 16:31

Tgt Ion: 75 Resp: 22682
 Ion Ratio Lower Upper
 75 100
 155 98.7 54.5 163.5
 157 122.6 72.0 215.9

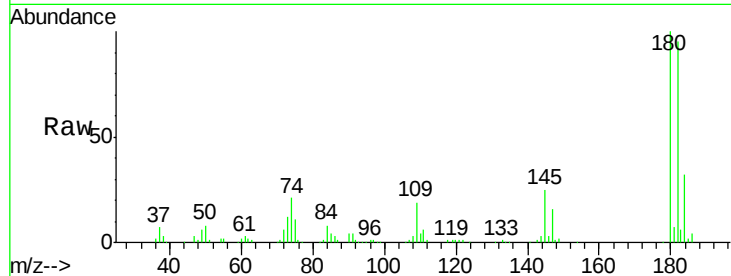




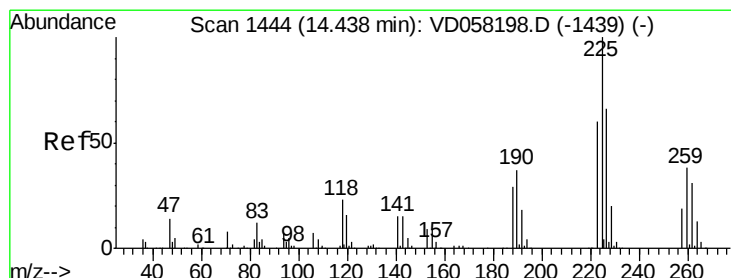
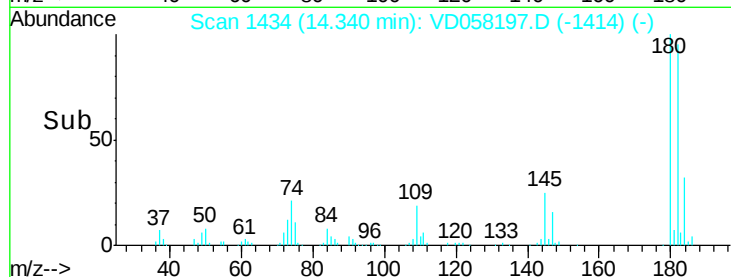
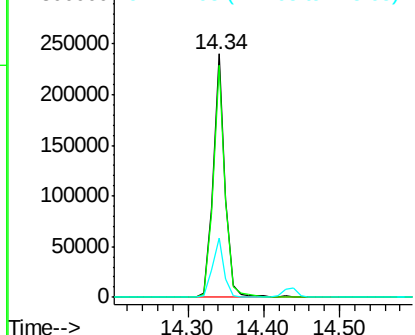
#93
 1,2,4-Trichlorobenzene
 Concen: 20.74 ug/l
 RT: 14.34 min Scan# 1434
 Delta R.T. 0.00 min
 Lab File: VD058197.D
 Acq: 19 Jun 2018 16:31

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion:180 Resp: 268430
 Ion Ratio Lower Upper
 180 100
 182 95.5 47.1 141.3
 145 24.6 11.7 35.0

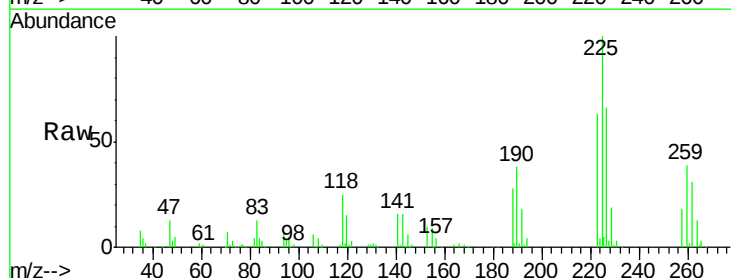


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

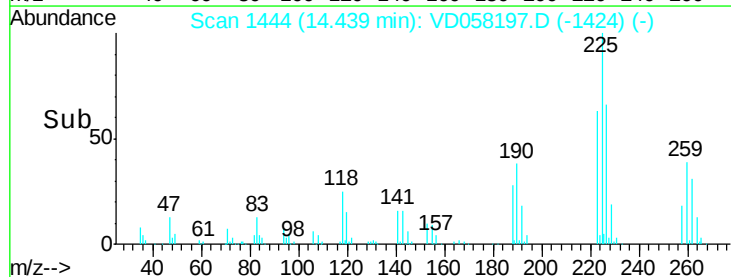
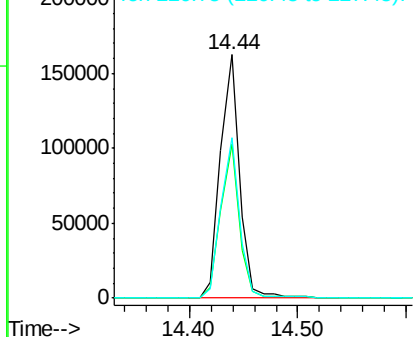


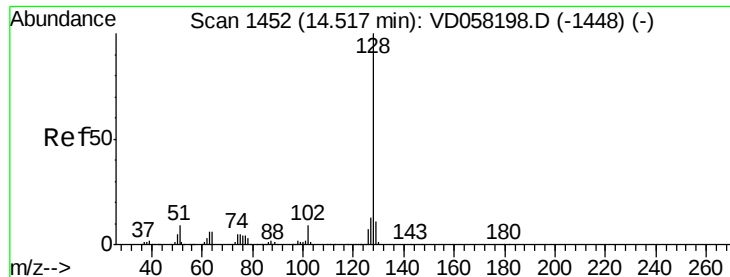
#94
 Hexachlorobutadiene
 Concen: 20.03 ug/l
 RT: 14.44 min Scan# 1444
 Delta R.T. 0.00 min
 Lab File: VD058197.D
 Acq: 19 Jun 2018 16:31

Tgt Ion:225 Resp: 202162
 Ion Ratio Lower Upper
 225 100
 223 63.3 30.1 90.3
 227 65.8 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: 21.27 ug/l

RT: 14.52 min Scan# 1452

Delta R.T. 0.00 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

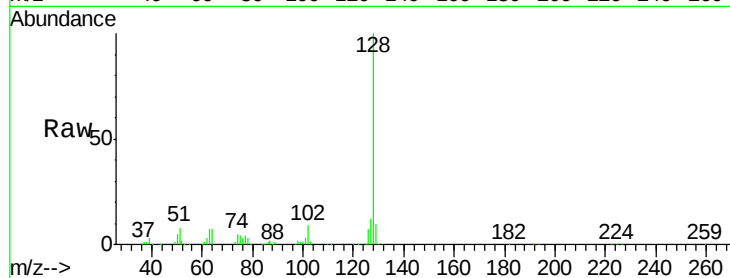
Tot Ion:128 Resp: 361340

Ion Ratio Lower Upper

128 100

127 12.0 10.0 15.0

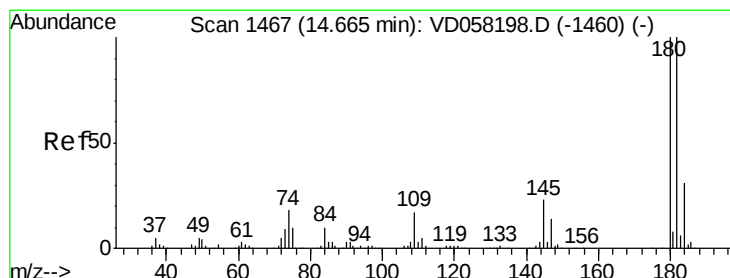
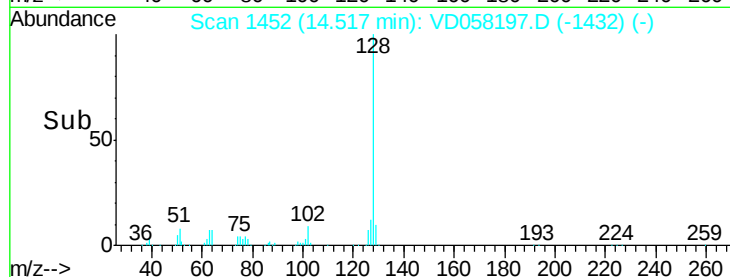
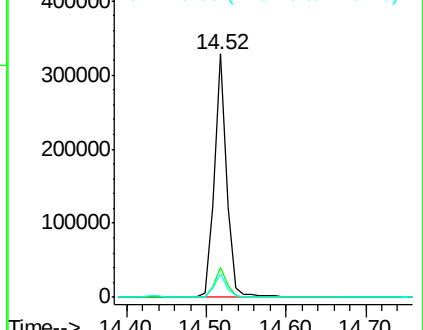
129 9.8 8.7 13.1



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: 20.51 ug/l

RT: 14.67 min Scan# 1467

Delta R.T. 0.00 min

Lab File: VD058197.D

Acq: 19 Jun 2018 16:31

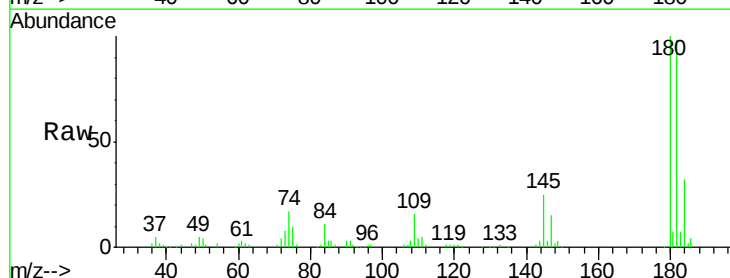
Tgt Ion:180 Resp: 227390

Ion Ratio Lower Upper

180 100

182 97.9 49.9 149.6

145 24.8 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

