

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120318\
 Data File : VD060468.D
 Acq On : 3 Dec 2018 11:44
 Operator : VA/AP
 Sample : VD1203SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1203SBS01

Quant Time: Dec 04 02:17:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110618S.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 19 16:31:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.43	168	1393706	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.47	114	1919752	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.30	117	1501787	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.38	152	774607	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.82	65	514464	51.55	ug/l	0.02
Spiked Amount			Recovery	=	103.10%	
35) Dibromofluoromethane	6.35	113	774302	54.09	ug/l	0.02
Spiked Amount			Recovery	=	108.18%	
50) Toluene-d8	9.48	98	2148126	51.27	ug/l	0.02
Spiked Amount			Recovery	=	102.54%	
62) 4-Bromofluorobenzene	12.44	95	790251	52.05	ug/l	0.00
Spiked Amount			Recovery	=	104.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.60	85	265729	21.716	ug/l	97
3) Chloromethane	1.78	50	273190	20.694	ug/l	98
4) Vinyl Chloride	1.87	62	216621	20.092	ug/l	98
5) Bromomethane	2.16	94	43606	17.048	ug/l	88
6) Chloroethane	2.28	64	64348	17.988	ug/l	92
7) Trichlorofluoromethane	2.53	101	264220	20.787	ug/l	98
8) Diethyl Ether	2.85	74	45504	19.773	ug/l	87
9) 1,1,2-Trichlorotrifluoroet	3.12	101	179952	21.525	ug/l	99
10) Methyl Iodide	3.27	142	190388	17.534	ug/l	97
11) Tert butyl alcohol	4.00	59	43865	107.045	ug/l #	87
12) 1,1-Dichloroethene	3.10	96	142772	20.995	ug/l	98
13) Acrolein	3.01	56	30028	62.016	ug/l	97
14) Allyl chloride	3.56	41	279532	21.483	ug/l	98
15) Acrylonitrile	4.12	53	259493	108.592	ug/l	99
16) Acetone	3.19	43	169037	97.653	ug/l	98
17) Carbon Disulfide	3.34	76	411629	18.753	ug/l	99
18) Methyl Acetate	3.58	43	78424	21.248	ug/l	93
19) Methyl tert-butyl Ether	4.15	73	424444	20.844	ug/l	99
20) Methylene Chloride	3.75	84	326669	21.274	ug/l	99
21) trans-1,2-Dichloroethene	4.13	96	321328	21.281	ug/l	98
22) Diisopropyl ether	4.89	45	1064023	21.888	ug/l	99
23) Vinyl Acetate	4.83	43	2632915	108.848	ug/l	99
24) 1,1-Dichloroethane	4.78	63	547509	21.963	ug/l	98
25) 2-Butanone	5.65	43	375127	104.261	ug/l	99
26) 2,2-Dichloropropane	5.62	77	442722	22.843	ug/l	99
27) cis-1,2-Dichloroethene	5.63	96	350397	22.276	ug/l	98
28) Bromochloromethane	5.95	49	225698	20.520	ug/l	98
29) Tetrahydrofuran	5.98	42	200371	105.628	ug/l	99
30) Chloroform	6.13	83	556324	22.323	ug/l	100
31) Cyclohexane	6.39	56	496904	20.855	ug/l	100
32) 1,1,1-Trichloroethane	6.32	97	470943	22.434	ug/l	96
36) 1,1-Dichloropropene	6.55	75	413123	21.782	ug/l	99
37) Ethyl Acetate	5.72	43	185858	21.296	ug/l	99
38) Carbon Tetrachloride	6.52	117	393655	22.375	ug/l	98

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.07	83	461797	21.170	ug/l	98
40) Benzene	6.82	78	1066502	22.029	ug/l	99
41) Methacrylonitrile	5.98	41	213544	21.378	ug/l #	95
42) 1,2-Dichloroethane	6.93	62	274230	21.641	ug/l	100
43) Isopropyl Acetate	8.37	43	227604	20.761	ug/l #	99
44) Trichloroethene	7.77	130	329368	22.443	ug/l	99
45) 1,2-Dichloropropane	8.13	63	272683	22.333	ug/l	96
46) Dibromomethane	8.24	93	151383	21.169	ug/l	94
47) Bromodichloromethane	8.52	83	370097	21.962	ug/l	99
48) Methyl methacrylate	8.27	41	139205	20.905	ug/l	96
49) 1,4-Dioxane	8.25	88	25336	439.735	ug/l #	82
51) 4-Methyl-2-Pentanone	9.37	43	744310	104.314	ug/l	97
52) Toluene	9.57	92	678970	21.955	ug/l	99
53) t-1,3-Dichloropropene	9.95	75	309031	21.704	ug/l	98
54) cis-1,3-Dichloropropene	9.13	75	403736	22.108	ug/l	97
55) 1,1,2-Trichloroethane	10.20	97	190378	21.239	ug/l	99
56) Ethyl methacrylate	10.05	69	174255	21.144	ug/l	97
57) 1,3-Dichloropropane	10.41	76	286886	21.005	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.94	63	536949	107.752	ug/l	98
59) 2-Hexanone	10.51	43	558717	109.862	ug/l	100
60) Dibromochloromethane	10.65	129	245078	22.493	ug/l	98
61) 1,2-Dibromoethane	10.77	107	197486	21.990	ug/l	94
64) Tetrachloroethene	10.27	164	297550	22.194	ug/l	98
65) Chlorobenzene	11.33	112	743252	22.841	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.43	131	246617	23.164	ug/l	96
67) Ethyl Benzene	11.44	91	1280528	23.005	ug/l	100
68) m/p-Xylenes	11.58	106	988451	48.139	ug/l	99
69) o-Xylene	11.95	106	450956	22.733	ug/l	96
70) Styrene	11.97	104	725618	22.634	ug/l	100
71) Bromoform	12.13	173	159001	22.225	ug/l	99
73) Isopropylbenzene	12.29	105	1290467	22.866	ug/l	99
74) N-amyl acetate	12.15	43	302163	20.884	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.57	83	198520	21.509	ug/l	99
76) 1,2,3-Trichloropropane	12.61	75	198455	21.417	ug/l	94
77) Bromobenzene	12.55	156	322202	21.493	ug/l	97
78) n-propylbenzene	12.65	91	1613008	22.898	ug/l	100
79) 2-Chlorotoluene	12.72	91	851292	22.065	ug/l	100
80) 1,3,5-Trimethylbenzene	12.81	105	1006137	22.940	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.36	75	53763	20.380	ug/l	94
82) 4-Chlorotoluene	12.82	91	975358	22.505	ug/l	99
83) tert-Butylbenzene	13.06	119	1130532	23.217	ug/l	91
84) 1,2,4-Trimethylbenzene	13.11	105	1000458	22.840	ug/l	98
85) sec-Butylbenzene	13.23	105	1350972	22.614	ug/l	98
86) p-Isopropyltoluene	13.35	119	1115418	23.185	ug/l	97
87) 1,3-Dichlorobenzene	13.32	146	608336	22.809	ug/l	98
88) 1,4-Dichlorobenzene	13.40	146	583903	22.417	ug/l	94
89) n-Butylbenzene	13.66	91	1133574	21.604	ug/l	96
90) Hexachloroethane	13.87	117	267433	23.443	ug/l	90
91) 1,2-Dichlorobenzene	13.68	146	501481	22.892	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.24	75	22481	20.178	ug/l	64

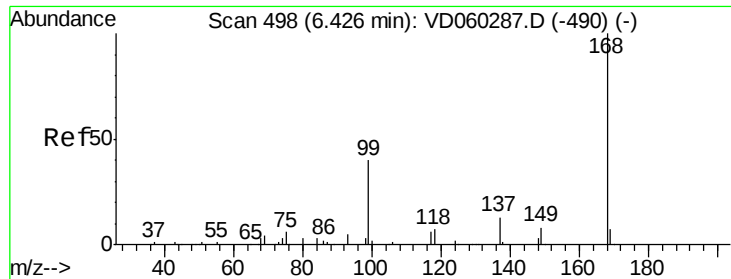
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD120318\
Data File : VD060468.D
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Operator : VA/AP
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Quant Title : SW846 8260
QLast Update : Mon Nov 19 16:31:59 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.80	180	391972	22.567	ug/l	99
94) Hexachlorobutadiene	14.90	225	290502	22.361	ug/l	99
95) Naphthalene	14.98	128	456743	21.535	ug/l	100
96) 1,2,3-Trichlorobenzene	15.12	180	291519	20.945	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.43 min Scan# 499

Delta R.T. 0.01 min

Lab File: VD060468.D

Acq: 3 Dec 2018 11:44

Instrument :

MSVOA_D

ClientSampleId :

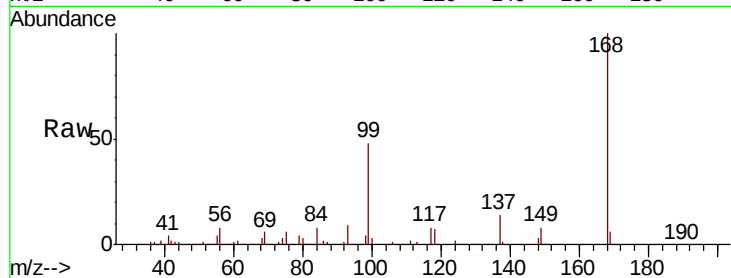
VD1203SBS01

Tot Ion:168 Resp: 1393706

Ion Ratio Lower Upper

168 100

99 48.1 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.43

500000

400000

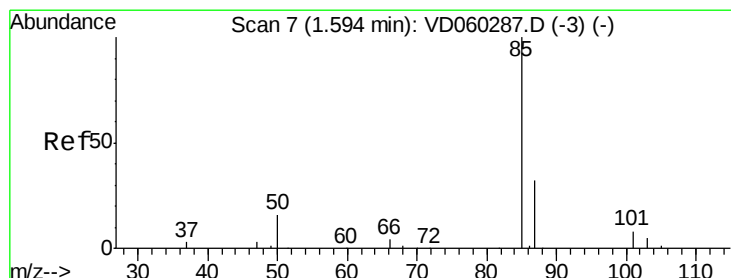
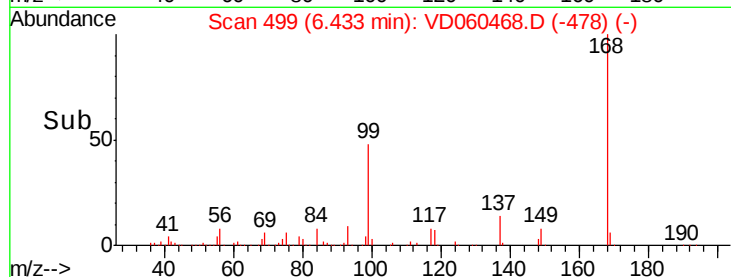
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 21.716 ug/l

RT: 1.60 min Scan# 8

Delta R.T. 0.01 min

Lab File: VD060468.D

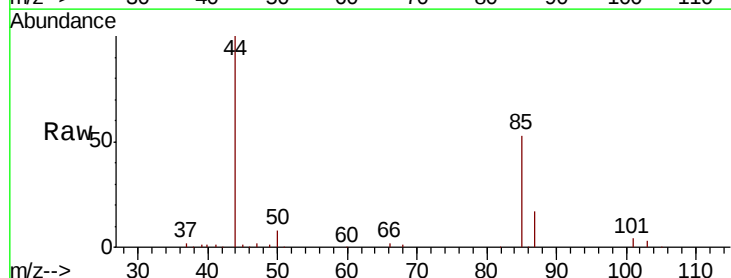
Acq: 3 Dec 2018 11:44

Tgt Ion: 85 Resp: 265729

Ion Ratio Lower Upper

85 100

87 31.7 16.8 50.4



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

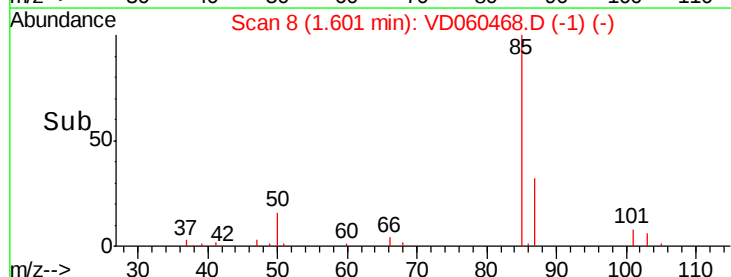
1.60

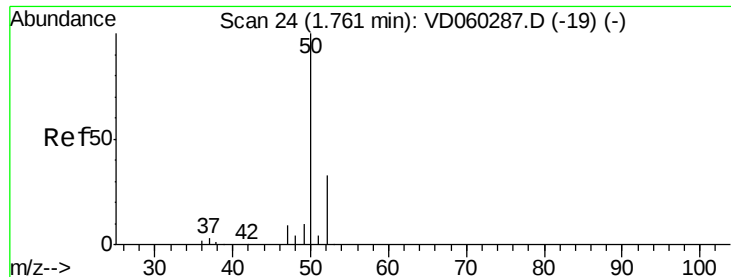
100000

50000

0

Time-->





#3

Chloromethane

Concen: 20.694 ug/l

RT: 1.78 min Scan# 26

Delta R.T. 0.02 min

Lab File: VD060468.D

Acq: 3 Dec 2018 11:44

Instrument :

MSVOA_D

ClientSampleId :

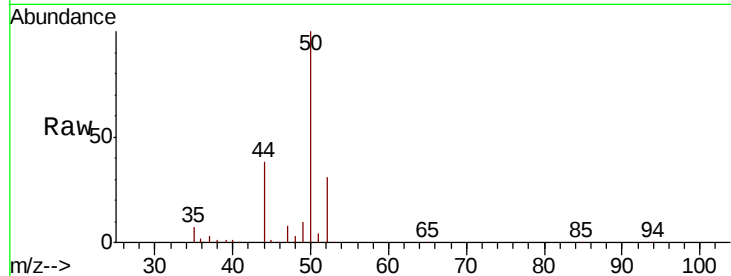
VD1203SBS01

Tot Ion: 50 Resp: 273190

Ion Ratio Lower Upper

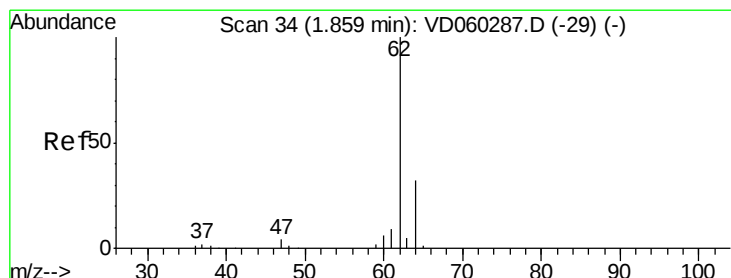
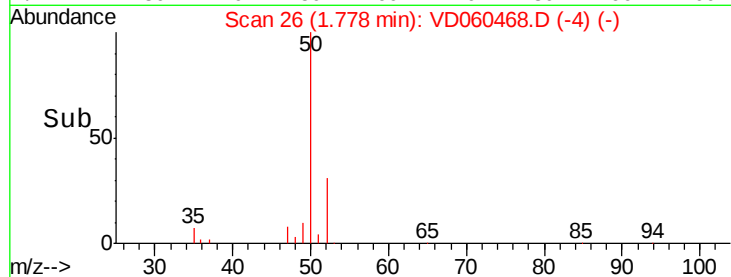
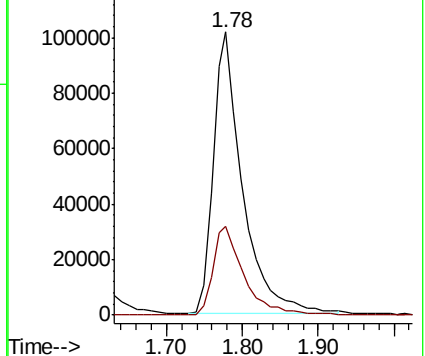
50 100

52 31.3 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 20.092 ug/l

RT: 1.87 min Scan# 35

Delta R.T. 0.01 min

Lab File: VD060468.D

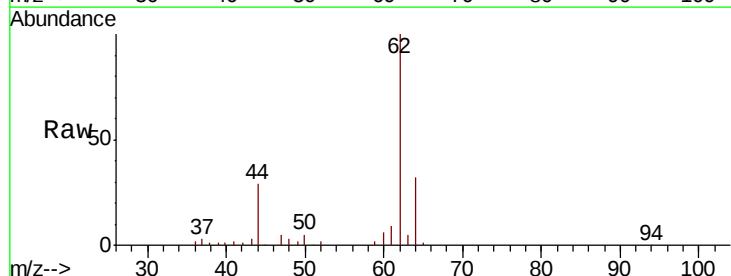
Acq: 3 Dec 2018 11:44

Tgt Ion: 62 Resp: 216621

Ion Ratio Lower Upper

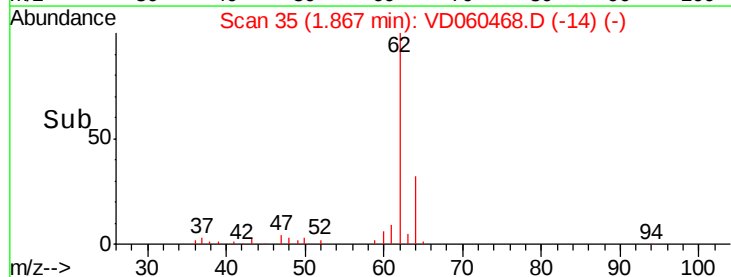
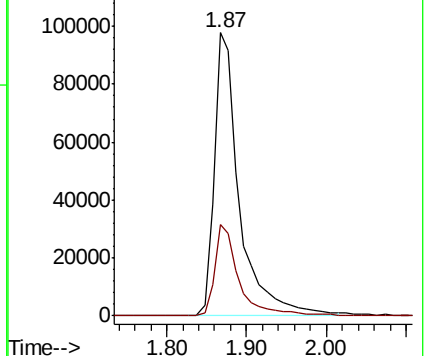
62 100

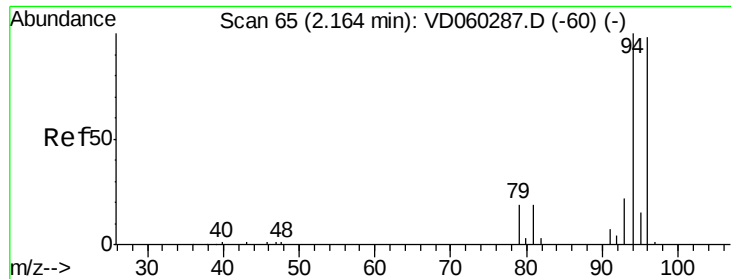
64 32.1 24.9 37.3



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 17.048 ug/l

RT: 2.16 min Scan# 65

Delta R.T. -0.00 min

Lab File: VD060468.D

Acq: 3 Dec 2018 11:44

Instrument :

MSVOA_D

ClientSampleId :

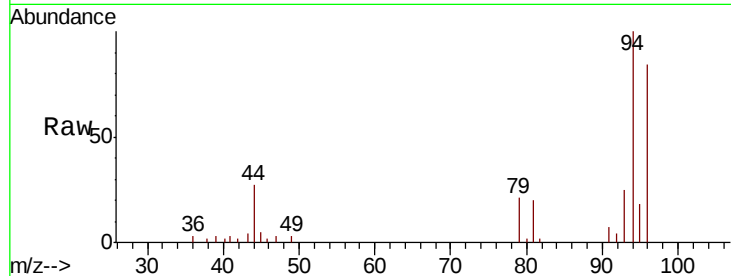
VD1203SBS01

Tot Ion: 94 Resp: 43606

Ion Ratio Lower Upper

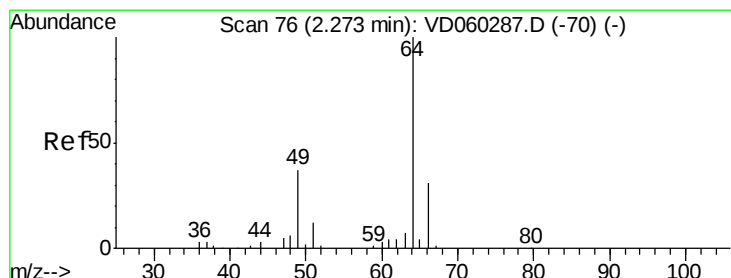
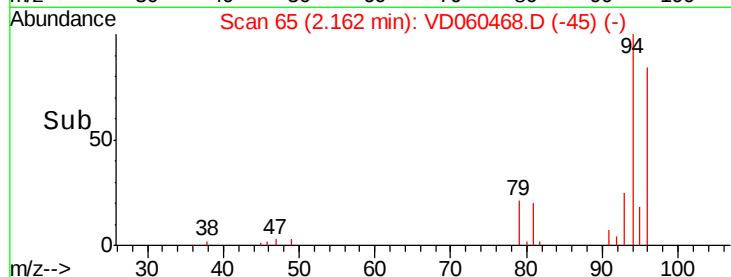
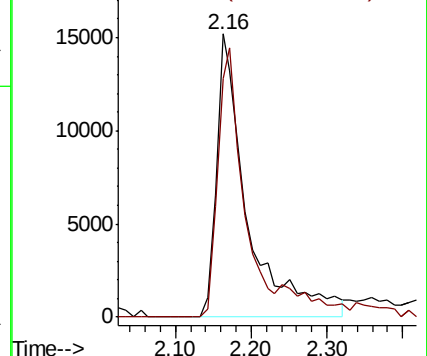
94 100

96 84.4 76.6 114.8



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 17.988 ug/l

RT: 2.28 min Scan# 77

Delta R.T. 0.01 min

Lab File: VD060468.D

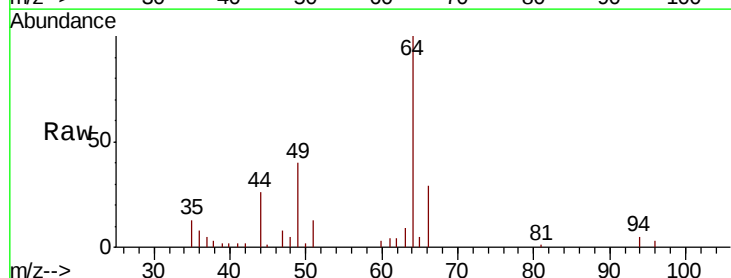
Acq: 3 Dec 2018 11:44

Tgt Ion: 64 Resp: 64348

Ion Ratio Lower Upper

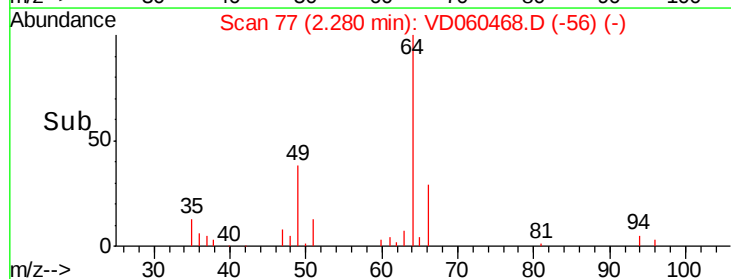
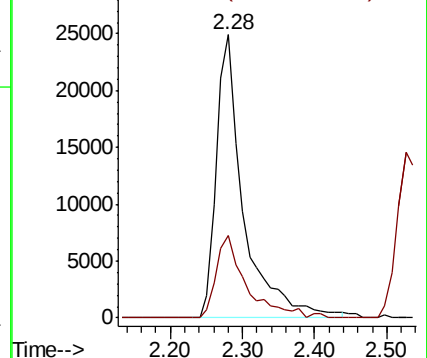
64 100

66 29.0 26.6 40.0



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



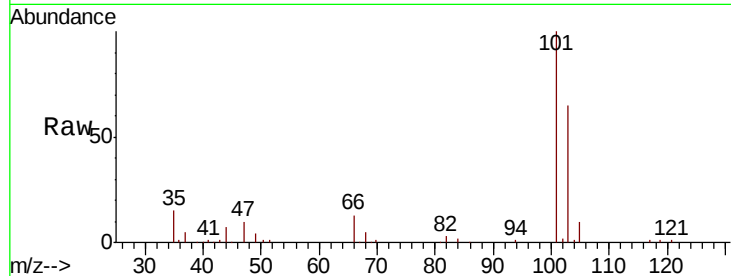


#7

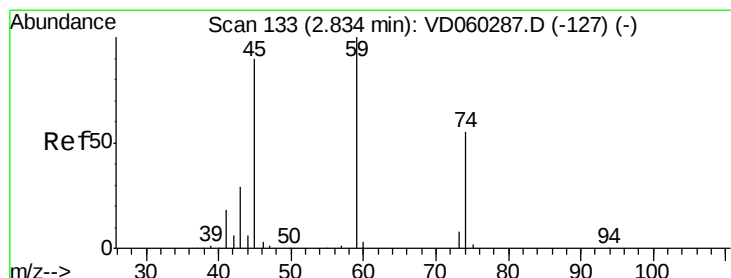
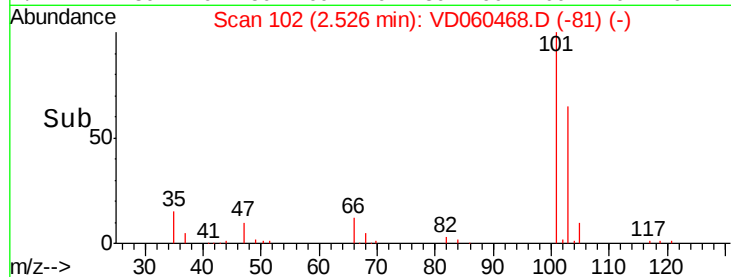
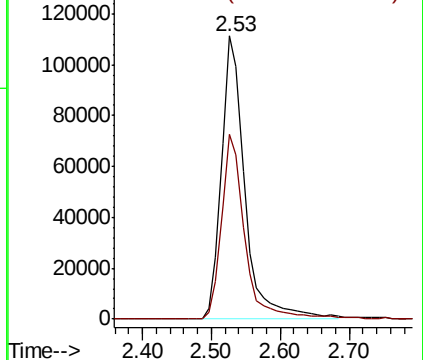
Trichlorofluoromethane
 Concen: 20.787 ug/l
 RT: 2.53 min Scan# 102
 Delta R.T. 0.01 min
 Lab File: VD060468.D
 Acq: 3 Dec 2018 11:44

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1203SBS01

Tot Ion:101 Resp: 264220
 Ion Ratio Lower Upper
 101 100
 103 65.1 53.6 80.4



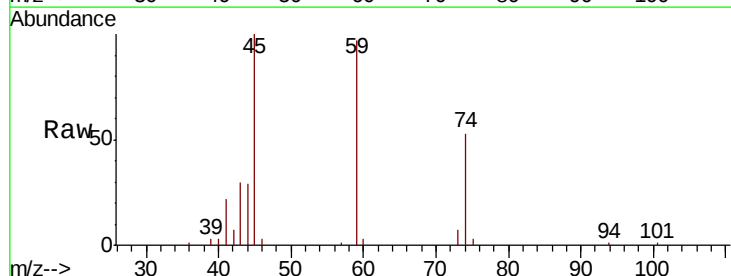
Abundance Ion 100.85 (100.55 to 101.55): V
 Ion 102.85 (102.55 to 103.55): V



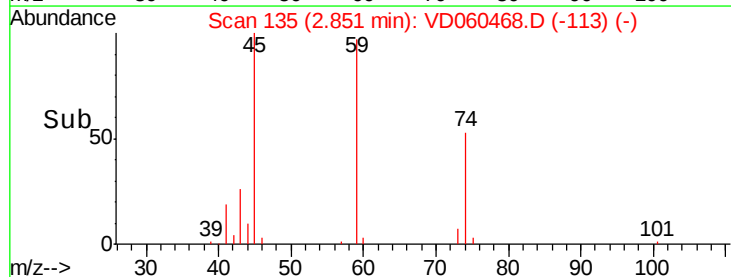
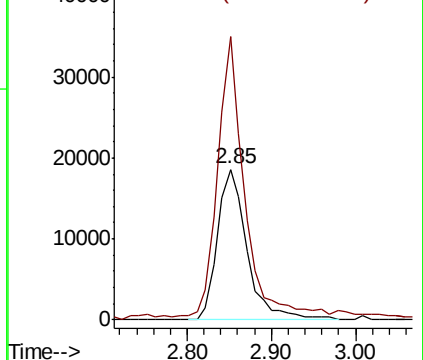
#8

Diethyl Ether
 Concen: 19.773 ug/l
 RT: 2.85 min Scan# 135
 Delta R.T. 0.02 min
 Lab File: VD060468.D
 Acq: 3 Dec 2018 11:44

Tgt Ion: 74 Resp: 45504
 Ion Ratio Lower Upper
 74 100
 45 187.9 84.8 254.4



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





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.525 ug/l

RT: 3.12 min Scan# 162

Delta R.T. 0.02 min

Lab File: VD060468.D

Acq: 3 Dec 2018 11:44

Instrument :

MSVOA_D

ClientSampleId :

VD1203SBS01

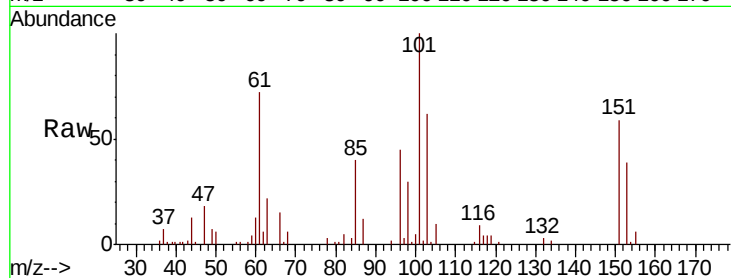
Tot Ion:101 Resp: 179952

Ion Ratio Lower Upper

101 100

85 39.9 31.4 47.0

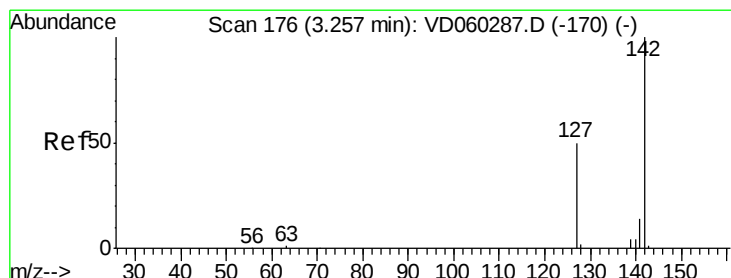
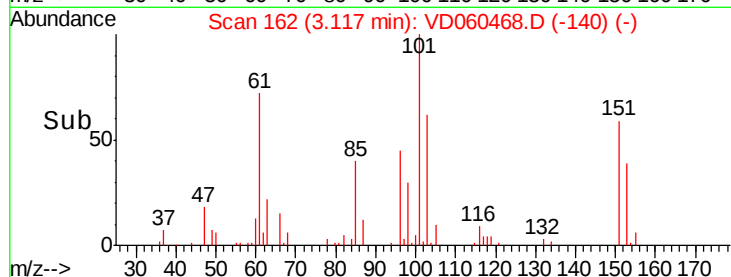
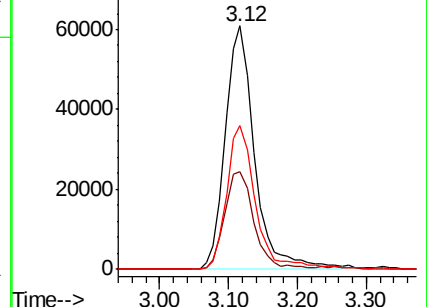
151 58.9 47.4 71.0



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 17.534 ug/l

RT: 3.27 min Scan# 178

Delta R.T. 0.02 min

Lab File: VD060468.D

Acq: 3 Dec 2018 11:44

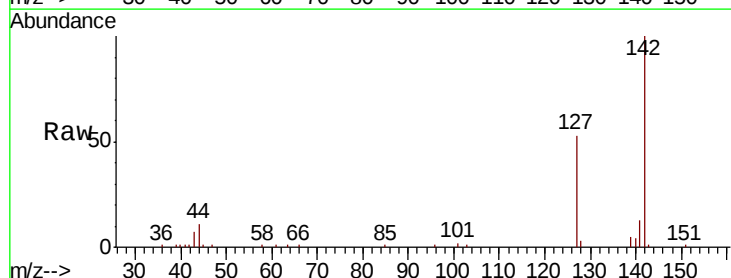
Tgt Ion:142 Resp: 190388

Ion Ratio Lower Upper

142 100

127 52.8 41.0 61.6

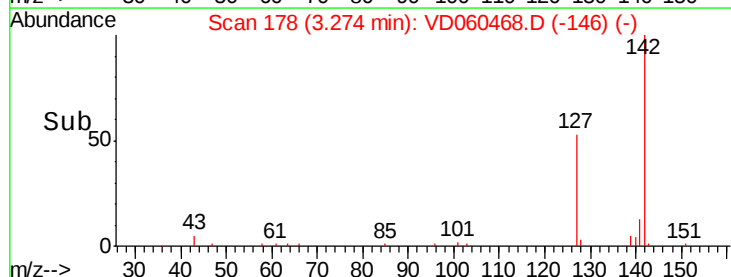
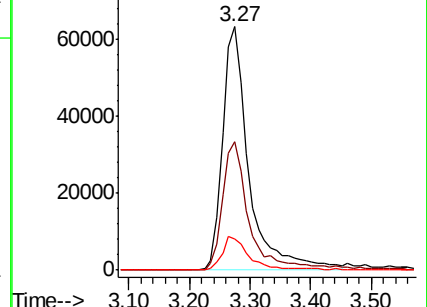
141 13.0 11.9 17.9

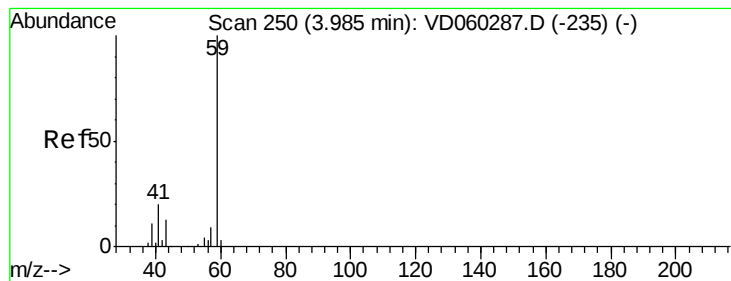


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



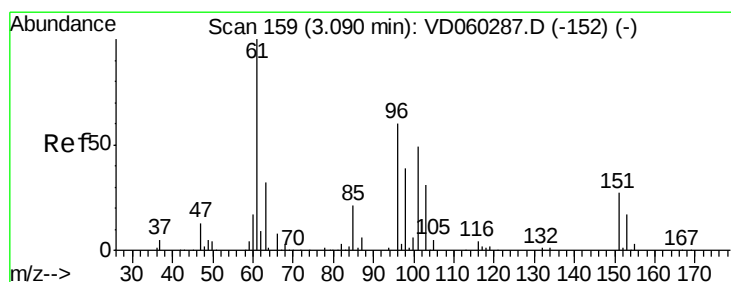
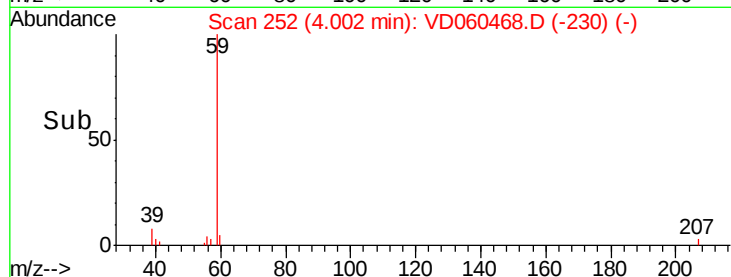
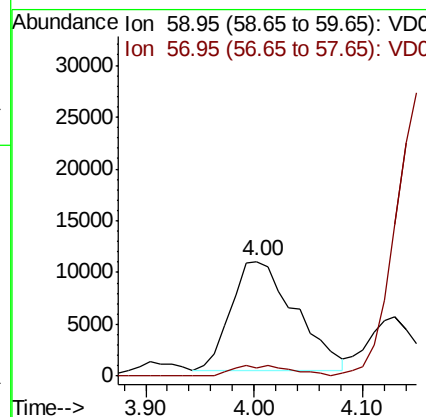
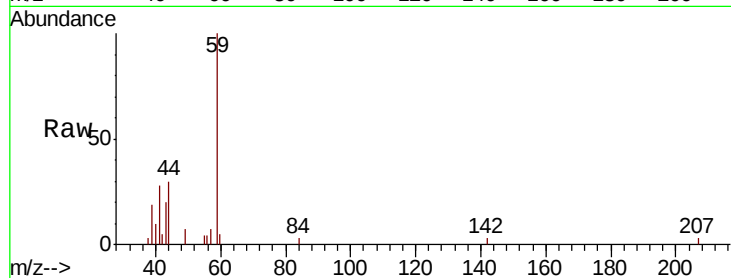


#11

Tert butyl alcohol
Concen: 107.045 ug/l
RT: 4.00 min Scan# 252
Delta R.T. 0.02 min
Lab File: VD060468.D
Acq: 3 Dec 2018 11:44

Instrument :
MSVOA_D
ClientSampleId :
VD1203SBS01

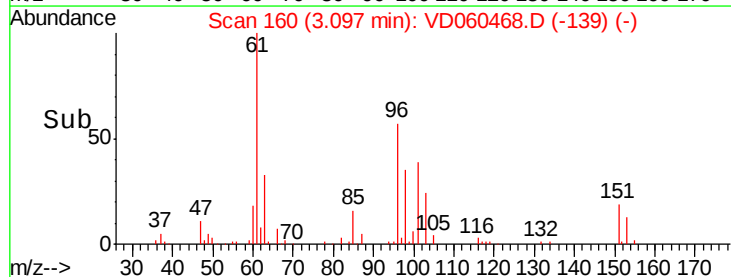
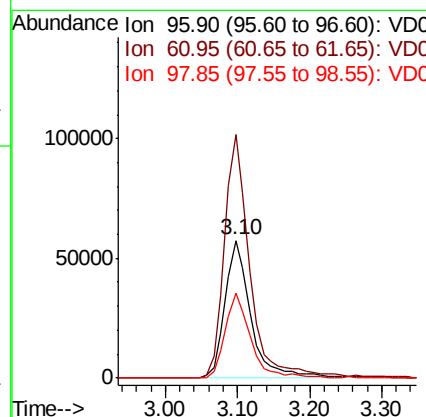
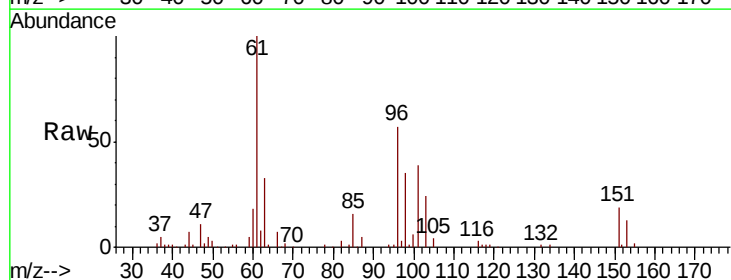
Tot Ion: 59 Resp: 43865
Ion Ratio Lower Upper
59 100
57 6.6 9.3 13.9#

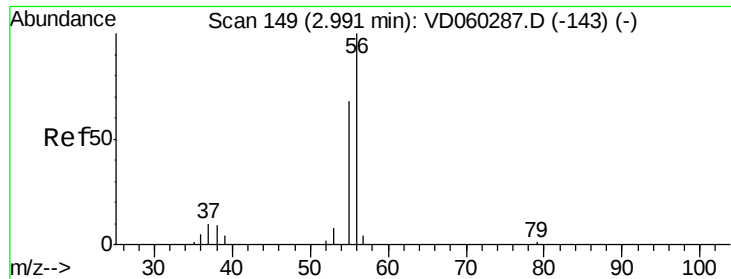


#12

1,1-Dichloroethene
Concen: 20.995 ug/l
RT: 3.10 min Scan# 160
Delta R.T. 0.01 min
Lab File: VD060468.D
Acq: 3 Dec 2018 11:44

Tgt Ion: 96 Resp: 142772
Ion Ratio Lower Upper
96 100
61 176.8 142.2 213.4
98 62.0 52.6 79.0





#13

Acrolein

Concen: 62.016 ug/l

RT: 3.01 min Scan# 151

Delta R.T. 0.02 min

Lab File: VD060468.D

Acq: 3 Dec 2018 11:44

Instrument :

MSVOA_D

ClientSampleId :

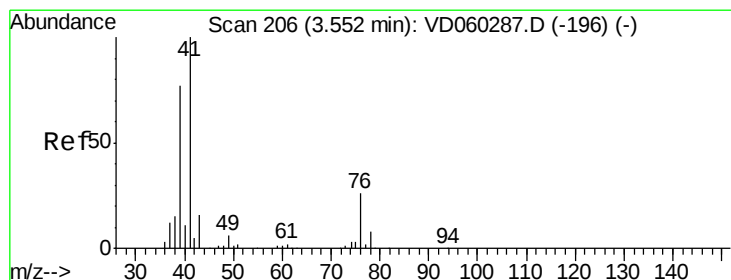
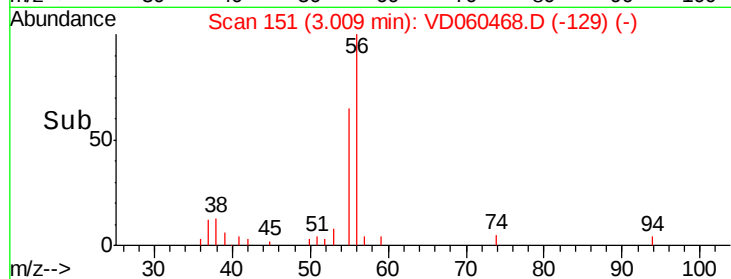
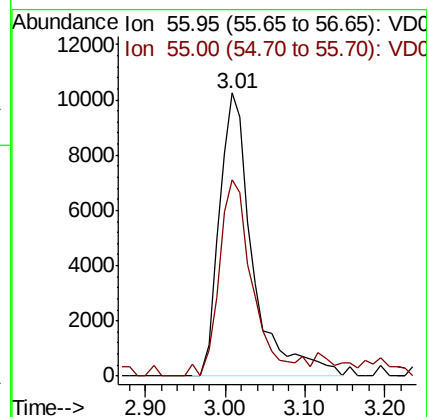
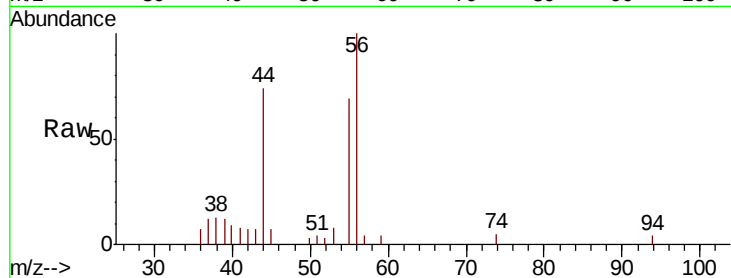
VD1203SBS01

Tot Ion: 56 Resp: 30028

Ion Ratio Lower Upper

56 100

55 69.2 57.0 85.6



#14

Allyl chloride

Concen: 21.483 ug/l

RT: 3.56 min Scan# 207

Delta R.T. 0.01 min

Lab File: VD060468.D

Acq: 3 Dec 2018 11:44

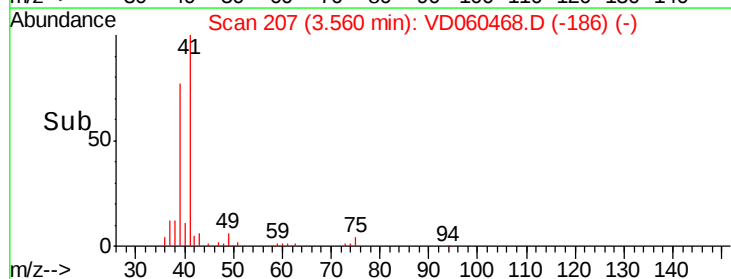
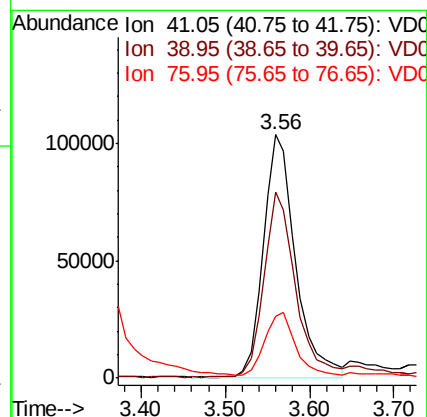
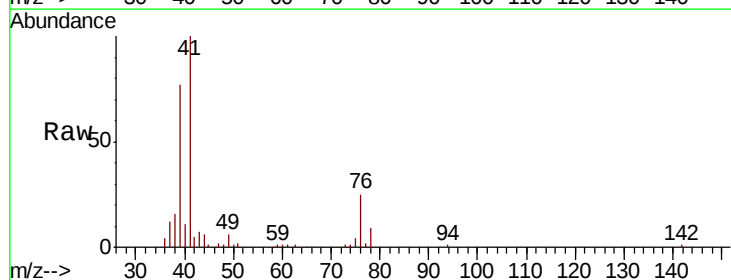
Tgt Ion: 41 Resp: 279532

Ion Ratio Lower Upper

41 100

39 76.6 60.4 90.6

76 25.2 21.8 32.8





#15

Acrylonitrile

Concen: 108.592 ug/l

RT: 4.12 min Scan# 264

Delta R.T. 0.03 min

Lab File: VD060468.D

Acq: 3 Dec 2018 11:44

Instrument :

MSVOA_D

ClientSampleId :

VD1203SBS01

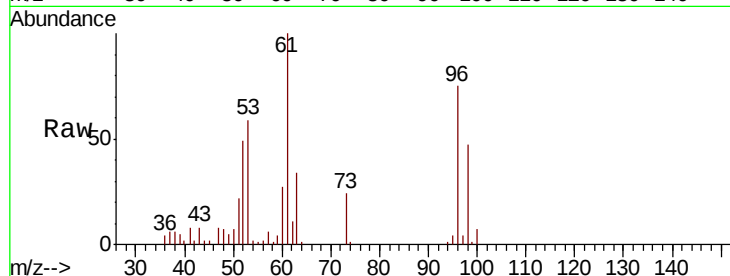
Tot Ion: 53 Resp: 259493

Ion Ratio Lower Upper

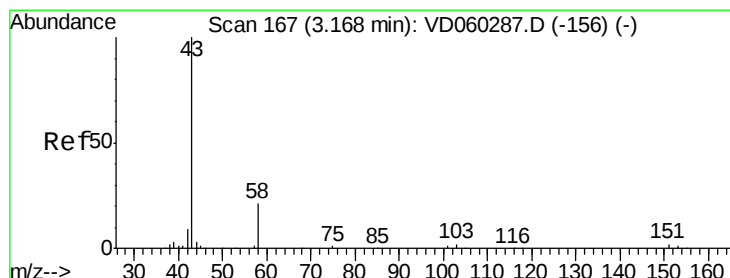
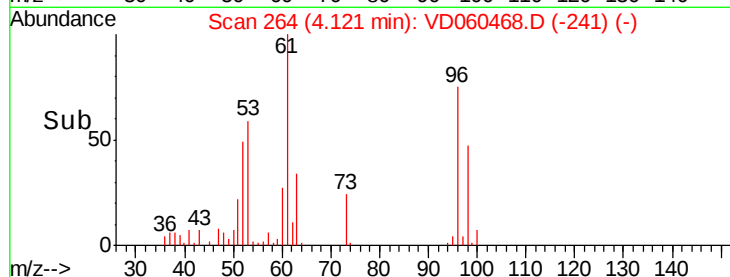
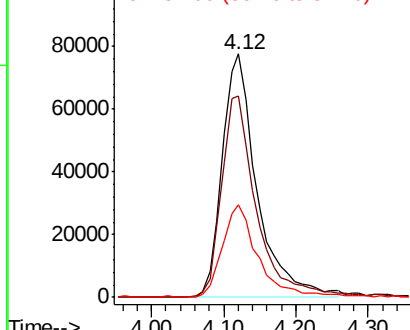
53 100

52 82.8 67.0 100.4

51 37.9 29.9 44.9



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: 97.653 ug/l

RT: 3.19 min Scan# 169

Delta R.T. 0.02 min

Lab File: VD060468.D

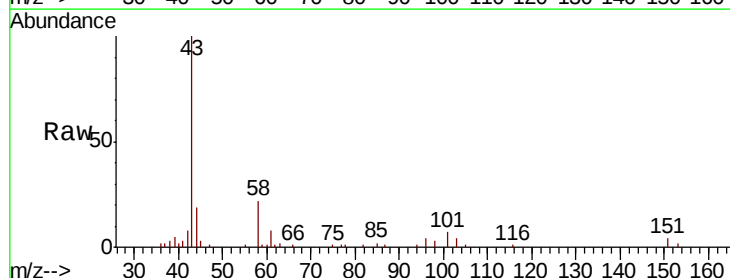
Acq: 3 Dec 2018 11:44

Tgt Ion: 43 Resp: 169037

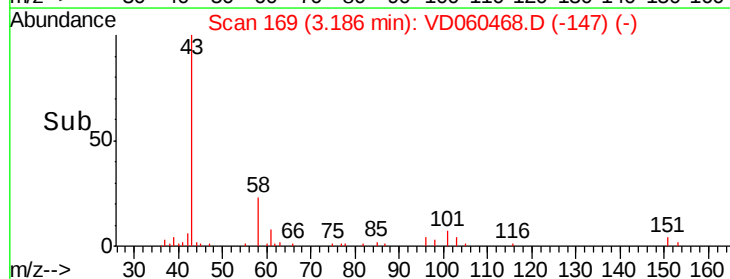
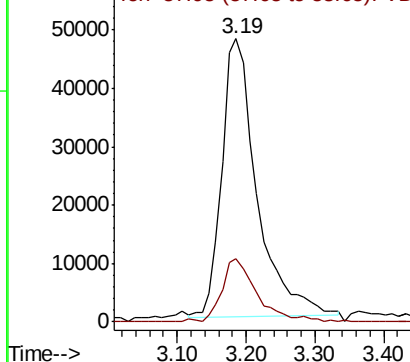
Ion Ratio Lower Upper

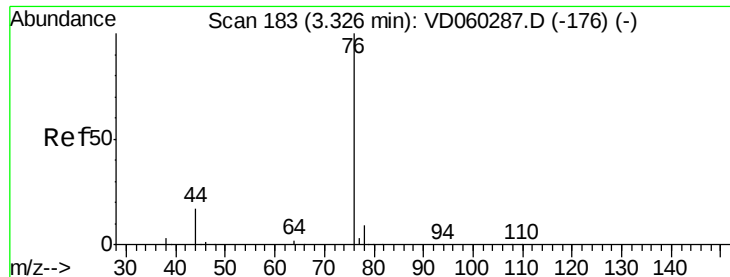
43 100

58 22.1 16.9 25.3



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

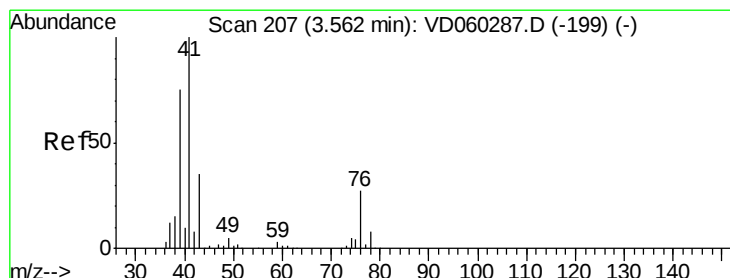
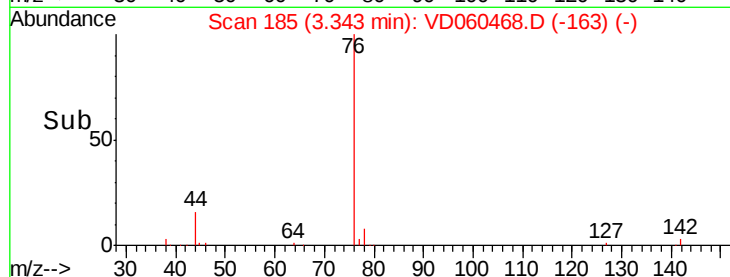
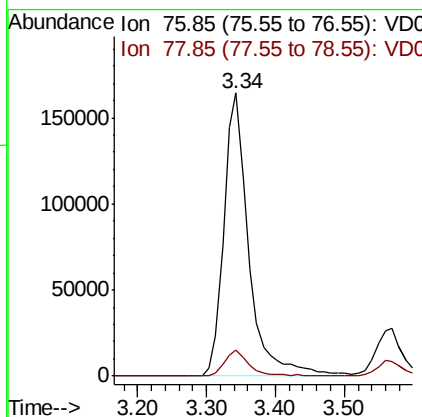
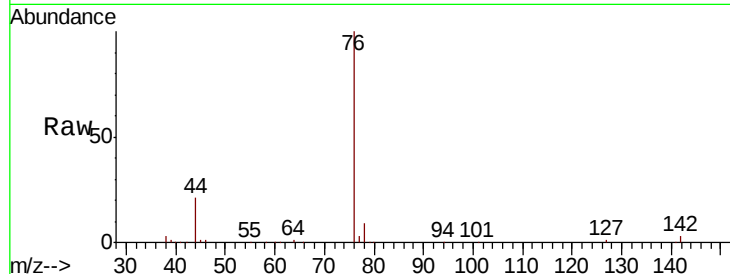




#17
Carbon Disulfide
Concen: 18.753 ug/l
RT: 3.34 min Scan# 185
Delta R.T. 0.02 min
Lab File: VD060468.D
Acq: 3 Dec 2018 11:44

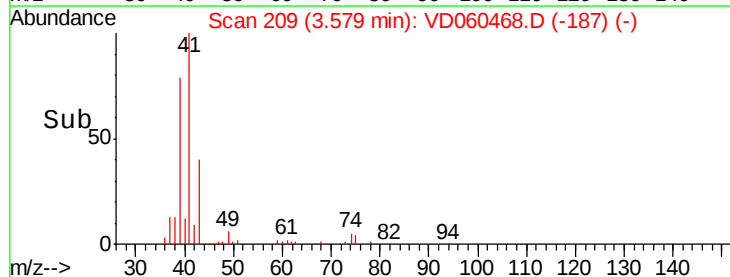
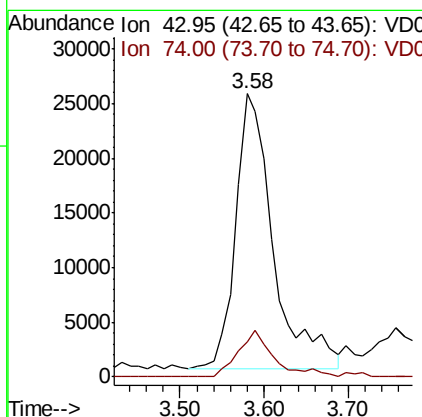
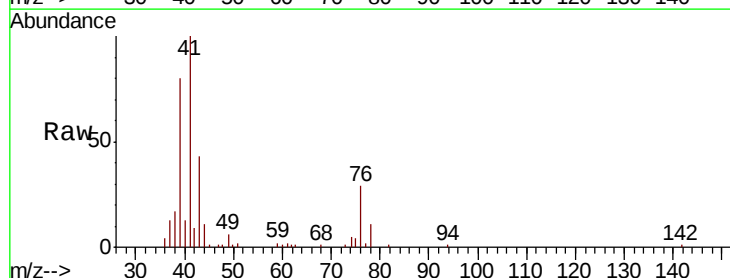
Instrument :
MSVOA_D
ClientSampleId :
VD1203SBS01

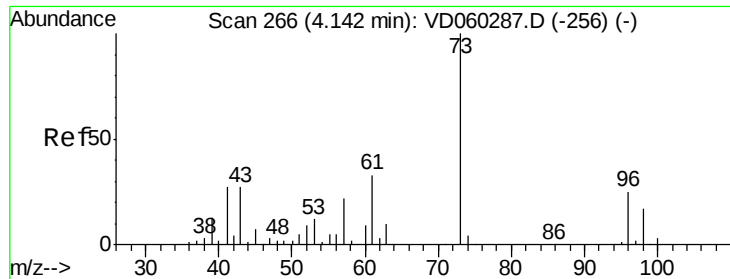
Tot Ion: 76 Resp: 411629
Ion Ratio Lower Upper
76 100
78 9.0 7.0 10.4



#18
Methyl Acetate
Concen: 21.248 ug/l
RT: 3.58 min Scan# 209
Delta R.T. 0.02 min
Lab File: VD060468.D
Acq: 3 Dec 2018 11:44

Tgt Ion: 43 Resp: 78424
Ion Ratio Lower Upper
43 100
74 12.5 12.4 18.6

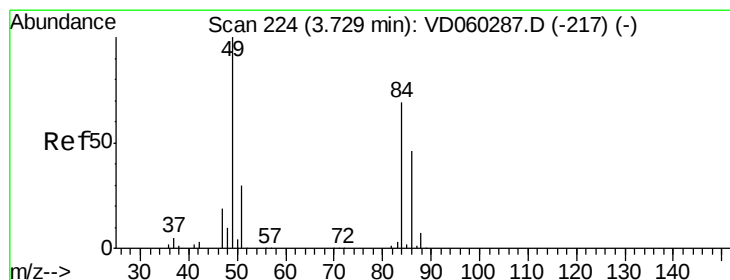
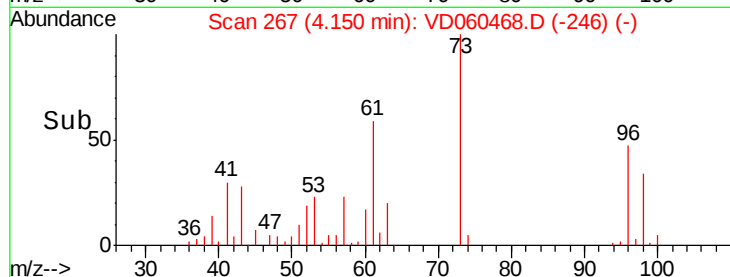
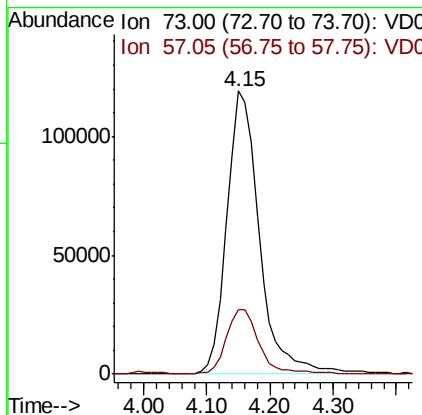
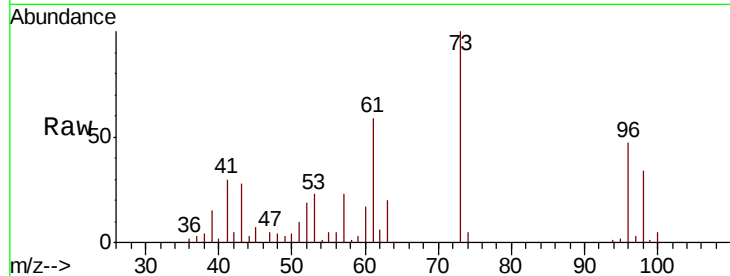




#19
Methyl tert-butyl Ether
Concen: 20.844 ug/l
RT: 4.15 min Scan# 267
Delta R.T. 0.01 min
Lab File: VD060468.D
Acq: 3 Dec 2018 11:44

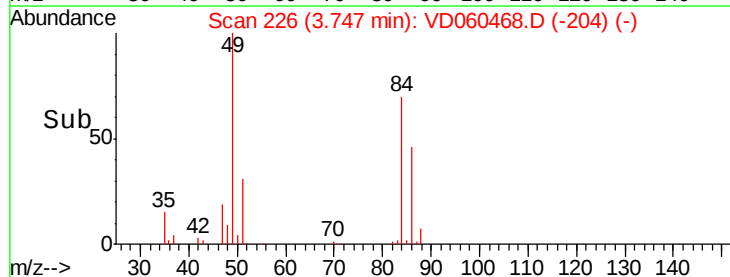
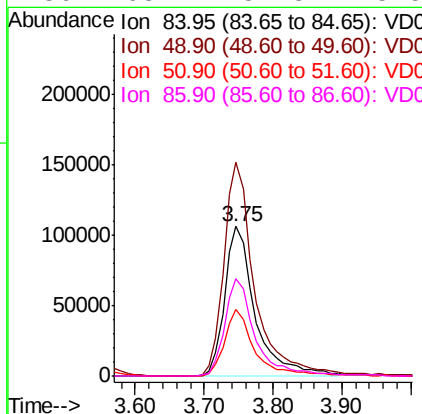
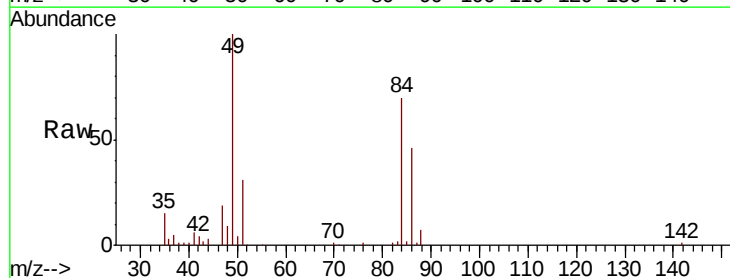
Instrument :
MSVOA_D
ClientSampleId :
VD1203SBS01

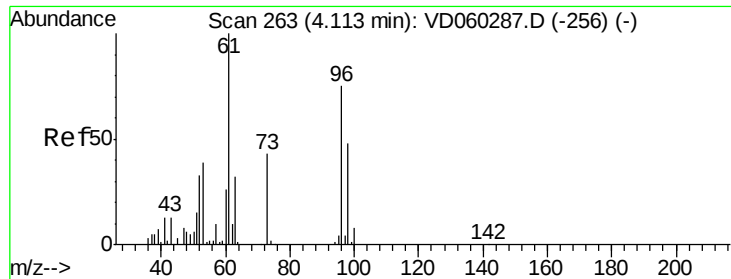
Tot Ion: 73 Resp: 424444
Ion Ratio Lower Upper
73 100
57 22.9 18.1 27.1



#20
Methylene Chloride
Concen: 21.274 ug/l
RT: 3.75 min Scan# 226
Delta R.T. 0.02 min
Lab File: VD060468.D
Acq: 3 Dec 2018 11:44

Tgt Ion: 84 Resp: 326669
Ion Ratio Lower Upper
84 100
49 143.2 115.6 173.4
51 44.6 35.6 53.4
86 65.1 52.3 78.5





#21

trans-1,2-Dichloroethene

Concen: 21.281 ug/l

RT: 4.13 min Scan# 265

Delta R.T. 0.02 min

Lab File: VD060468.D

Acq: 3 Dec 2018 11:44

Instrument :

MSVOA_D

ClientSampleId :

VD1203SBS01

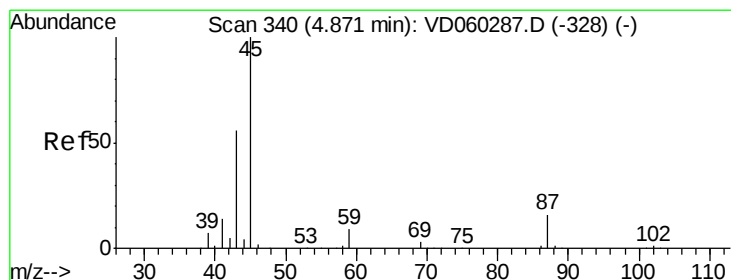
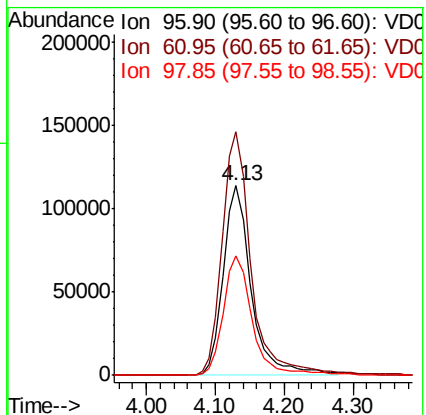
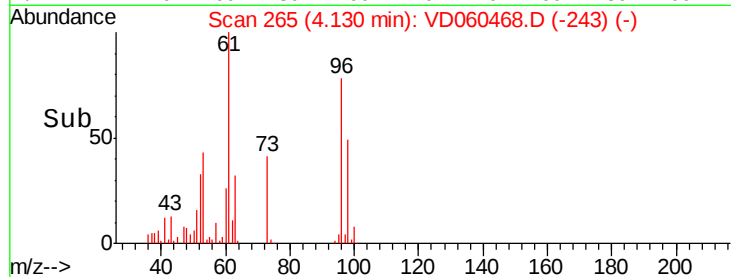
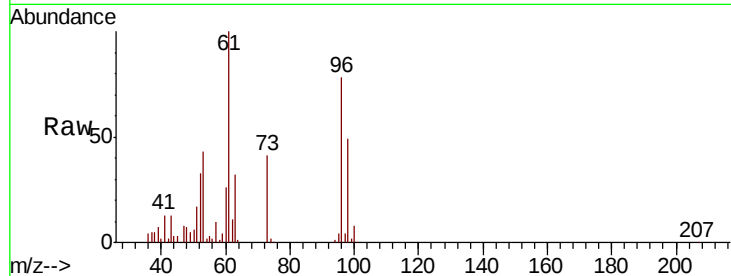
Tot Ion: 96 Resp: 321328

Ion Ratio Lower Upper

96 100

61 128.5 105.8 158.6

98 63.2 50.8 76.2



#22

Diisopropyl ether

Concen: 21.888 ug/l

RT: 4.89 min Scan# 342

Delta R.T. 0.02 min

Lab File: VD060468.D

Acq: 3 Dec 2018 11:44

Tgt Ion: 45 Resp: 1064023

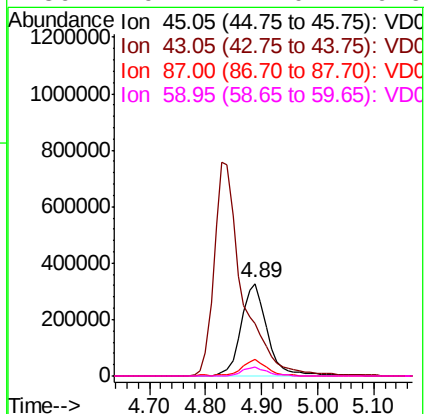
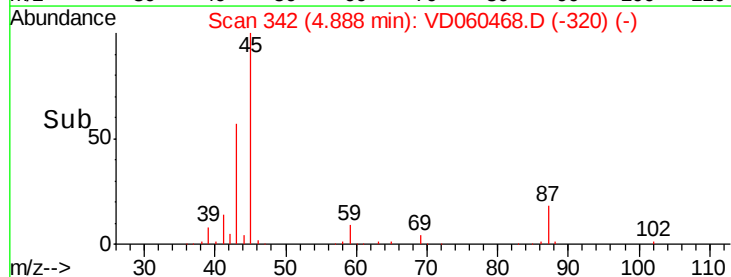
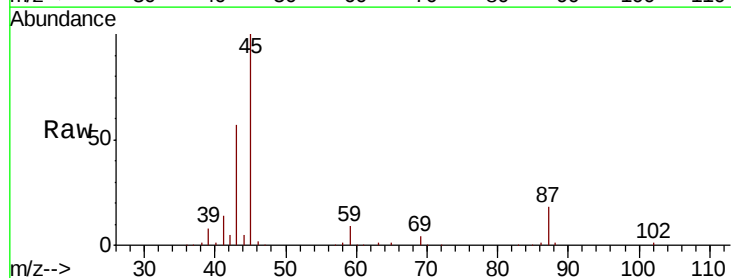
Ion Ratio Lower Upper

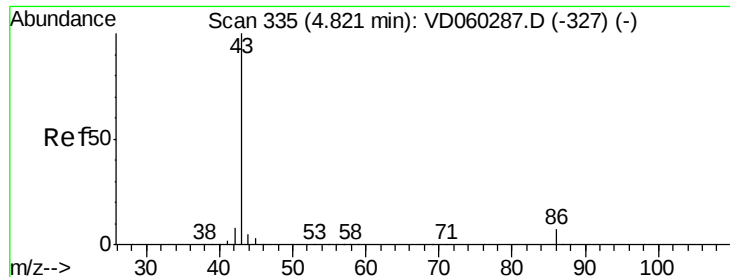
45 100

43 57.2 44.9 67.3

87 17.5 13.9 20.9

59 9.1 7.0 10.6





#23

Vinyl Acetate

Concen: 108.848 ug/l

RT: 4.83 min Scan# 336

Delta R.T. 0.01 min

Lab File: VD060468.D

Acq: 3 Dec 2018 11:44

Instrument :

MSVOA_D

ClientSampleId :

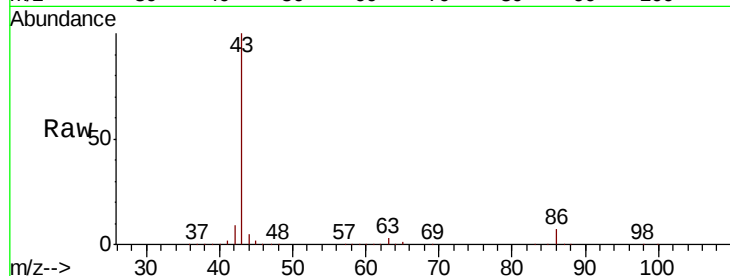
VD1203SBS01

Tot Ion: 43 Resp: 2632915

Ion Ratio Lower Upper

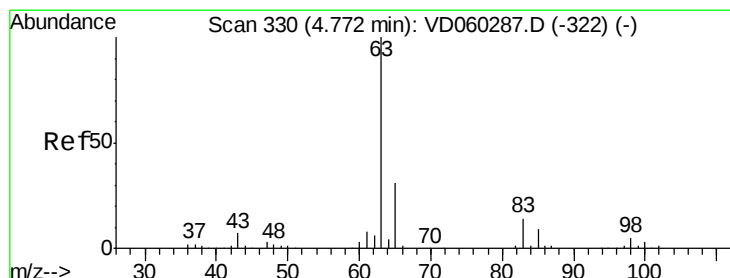
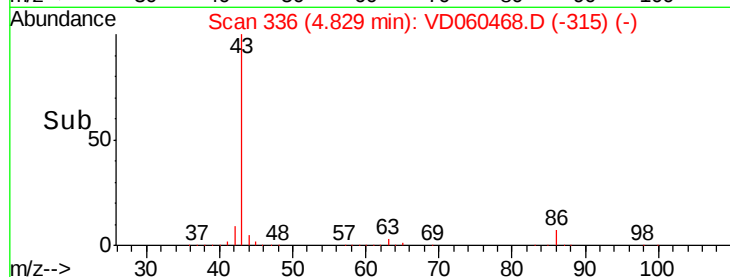
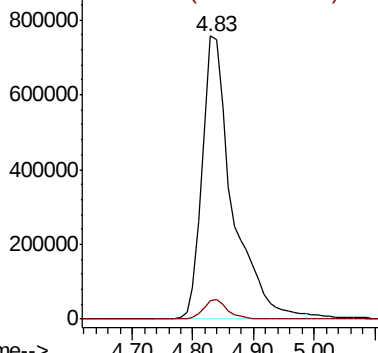
43 100

86 6.7 5.7 8.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 21.963 ug/l

RT: 4.78 min Scan# 331

Delta R.T. 0.01 min

Lab File: VD060468.D

Acq: 3 Dec 2018 11:44

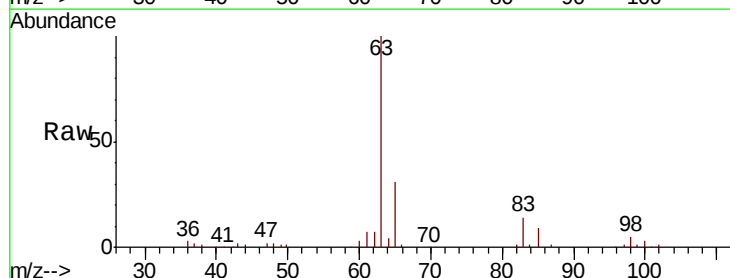
Tgt Ion: 63 Resp: 547509

Ion Ratio Lower Upper

63 100

98 5.0 2.8 8.4

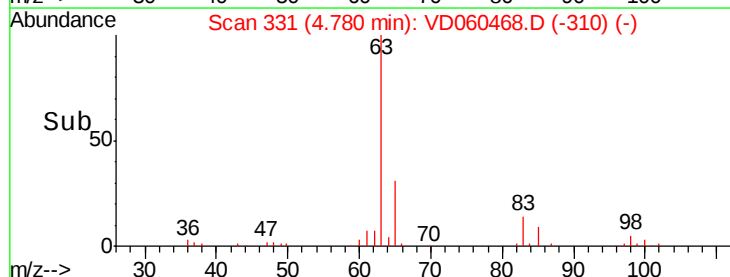
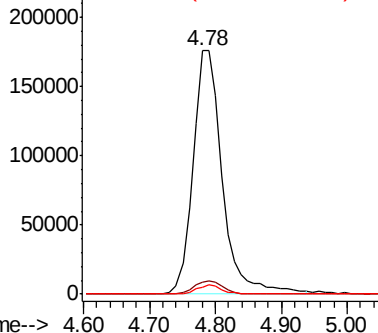
100 3.0 1.8 5.5



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: 104.261 ug/l

RT: 5.65 min Scan# 419

Delta R.T. 0.01 min

Lab File: VD060468.D

Acq: 3 Dec 2018 11:44

Instrument :

MSVOA_D

ClientSampleId :

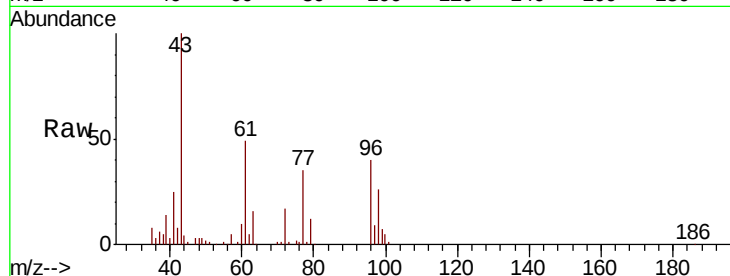
VD1203SBS01

Tot Ion: 43 Resp: 375127

Ion Ratio Lower Upper

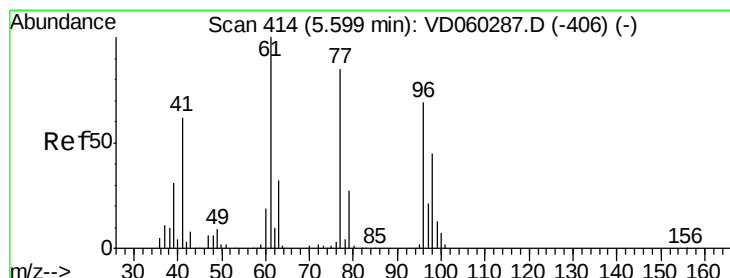
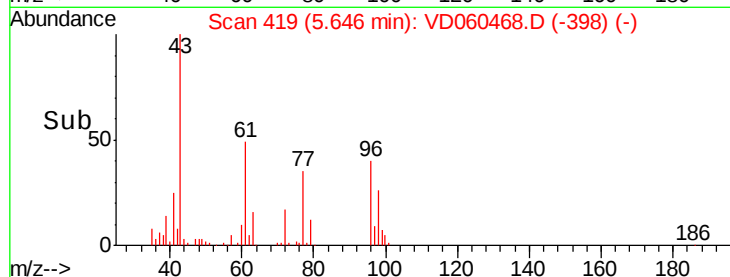
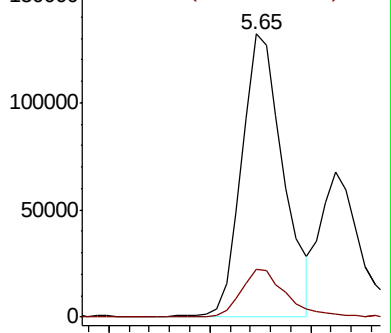
43 100

72 16.7 13.8 20.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 22.843 ug/l

RT: 5.62 min Scan# 416

Delta R.T. 0.02 min

Lab File: VD060468.D

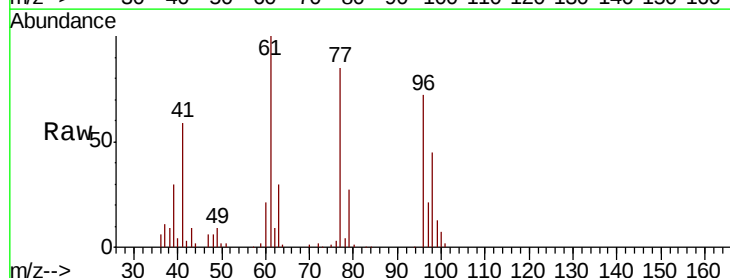
Acq: 3 Dec 2018 11:44

Tgt Ion: 77 Resp: 442722

Ion Ratio Lower Upper

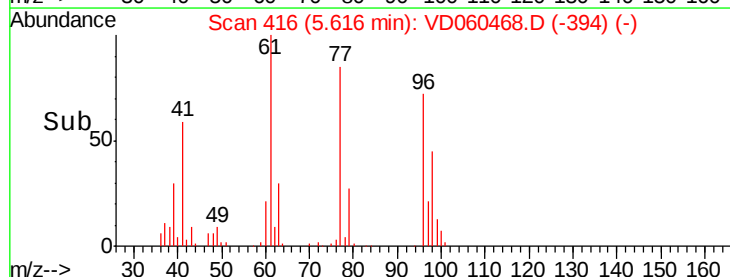
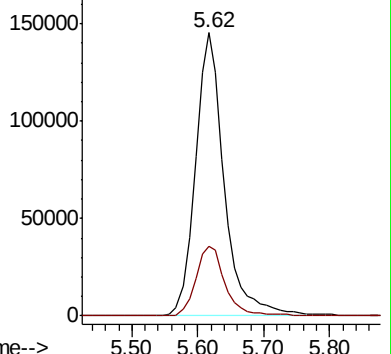
77 100

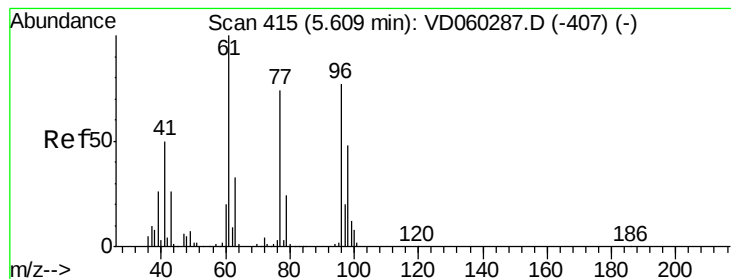
97 24.5 12.6 37.8



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



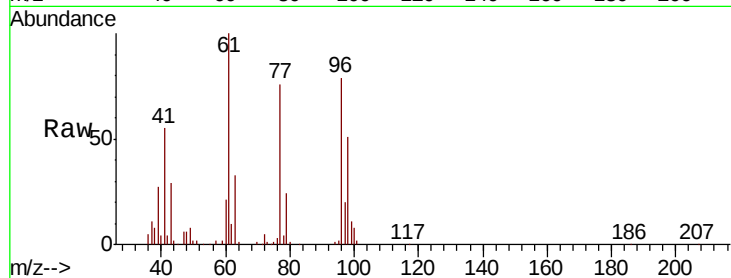


#27

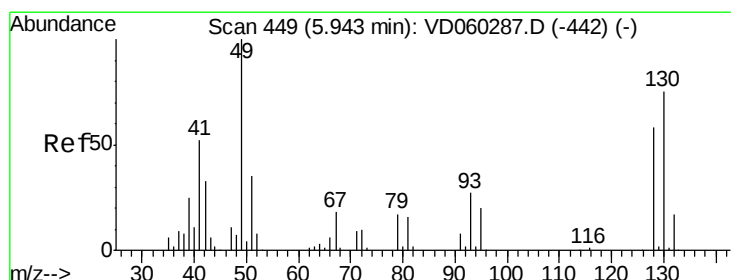
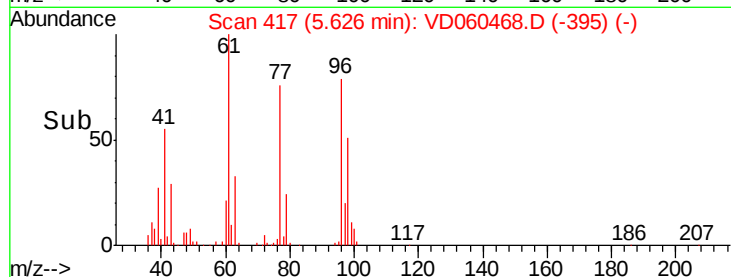
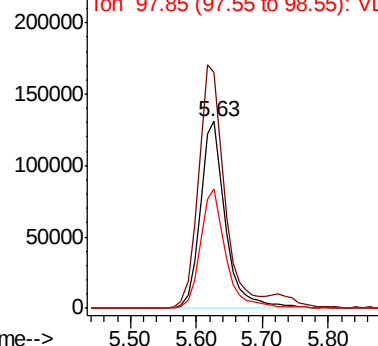
cis-1,2-Dichloroethene
Concen: 22.276 ug/l
RT: 5.63 min Scan# 417
Delta R.T. 0.02 min
Lab File: VD060468.D
Acq: 3 Dec 2018 11:44

Instrument :
MSVOA_D
ClientSampleId :
VD1203SBS01

Tot Ion: 96 Resp: 350397
Ion Ratio Lower Upper
96 100
61 125.9 0.0 259.0
98 63.7 0.0 128.8



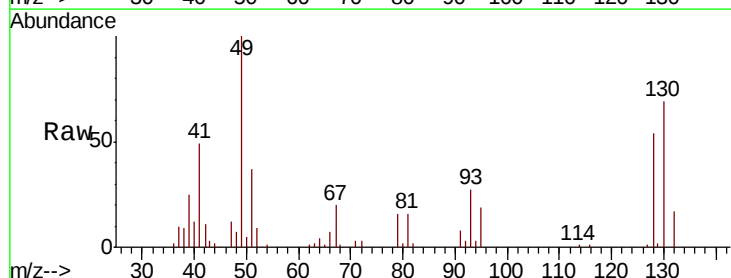
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



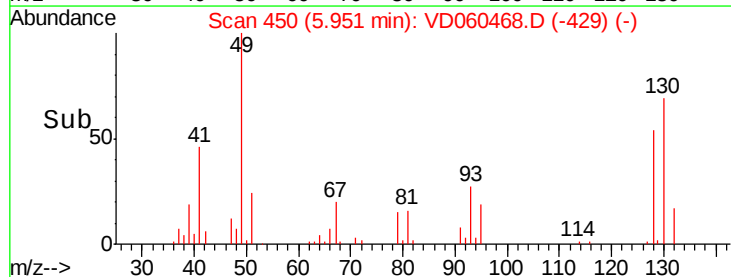
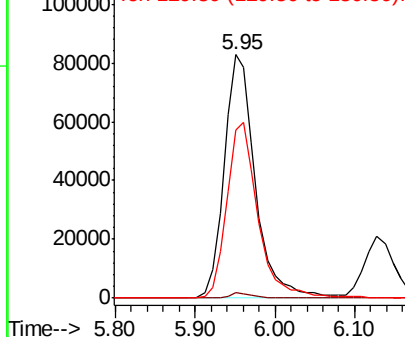
#28

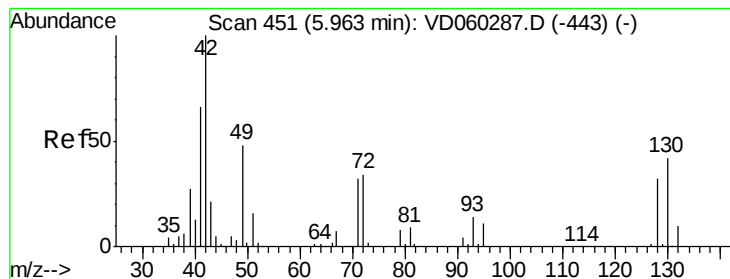
Bromochloromethane
Concen: 20.520 ug/l
RT: 5.95 min Scan# 450
Delta R.T. 0.01 min
Lab File: VD060468.D
Acq: 3 Dec 2018 11:44

Tgt Ion: 49 Resp: 225698
Ion Ratio Lower Upper
49 100
129 2.1 0.0 2.8
130 68.8 53.6 80.4



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: 105.628 ug/l

RT: 5.98 min Scan# 453

Delta R.T. 0.02 min

Lab File: VD060468.D

Acq: 3 Dec 2018 11:44

Instrument :

MSVOA_D

ClientSampleId :

VD1203SBS01

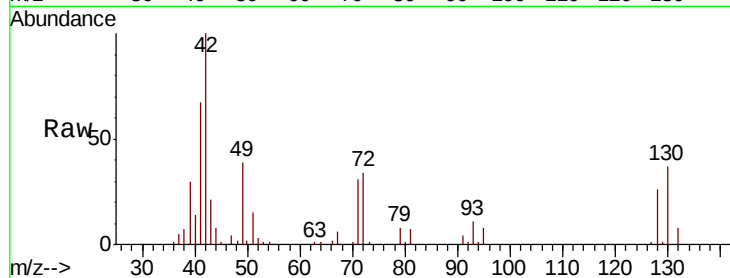
Tot Ion: 42 Resp: 200371

Ion Ratio Lower Upper

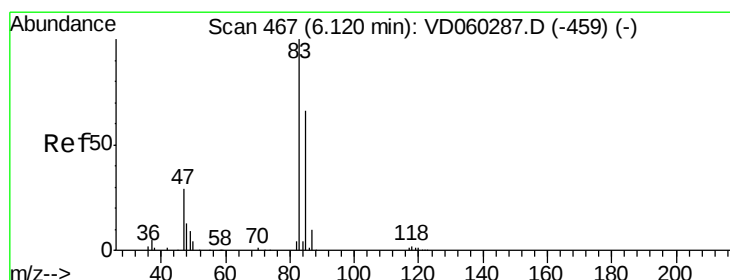
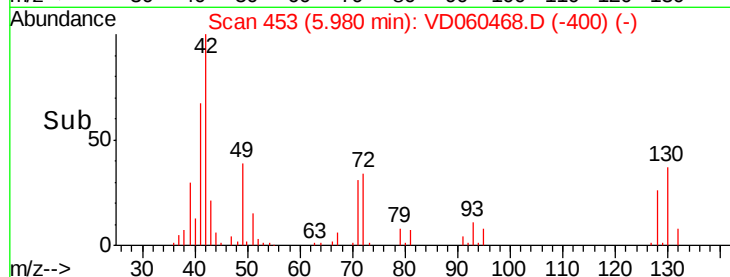
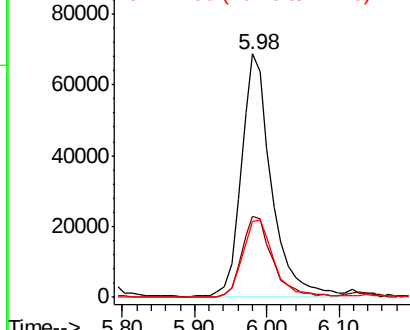
42 100

72 33.9 27.6 41.4

71 33.3 26.5 39.7



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



#30

Chloroform

Concen: 22.323 ug/l

RT: 6.13 min Scan# 468

Delta R.T. 0.01 min

Lab File: VD060468.D

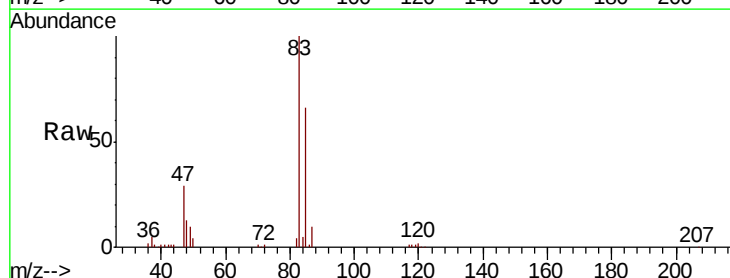
Acq: 3 Dec 2018 11:44

Tgt Ion: 83 Resp: 556324

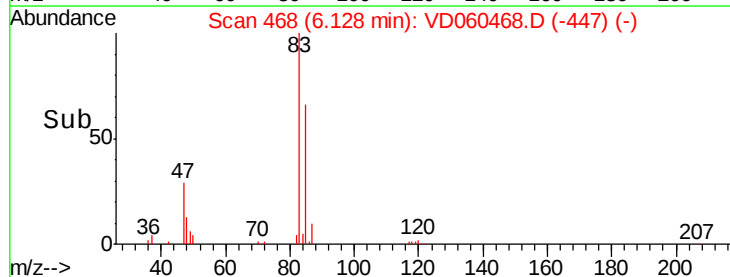
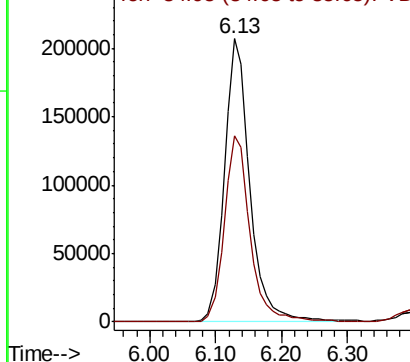
Ion Ratio Lower Upper

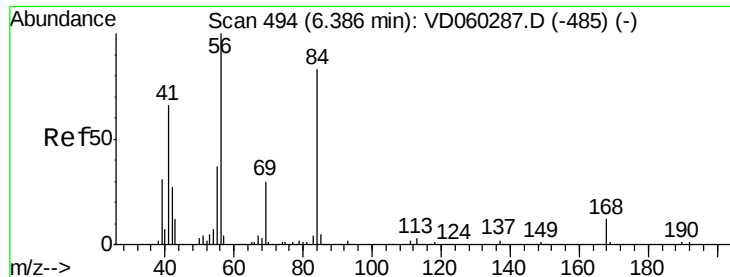
83 100

85 65.9 52.5 78.7



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





#31

Cvclohexane

Concen: 20.855 ug/l

RT: 6.39 min Scan# 495

Delta R.T. 0.01 min

Lab File: VD060468.D

Acq: 3 Dec 2018 11:44

Instrument :

MSVOA_D

ClientSampleId :

VD1203SBS01

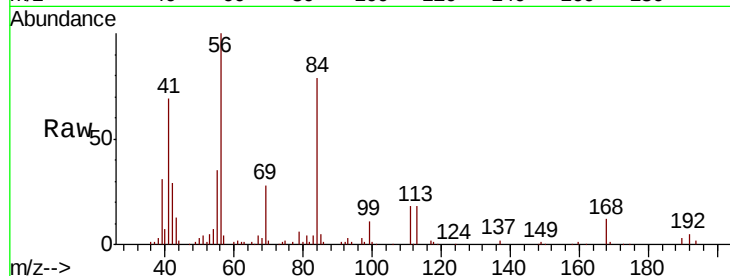
Tot Ion: 56 Resp: 496904

Ion Ratio Lower Upper

56 100

69 28.3 22.2 33.2

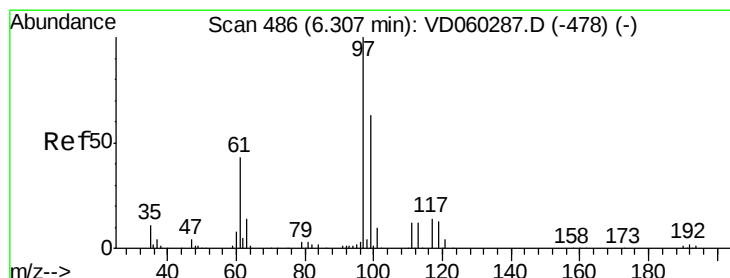
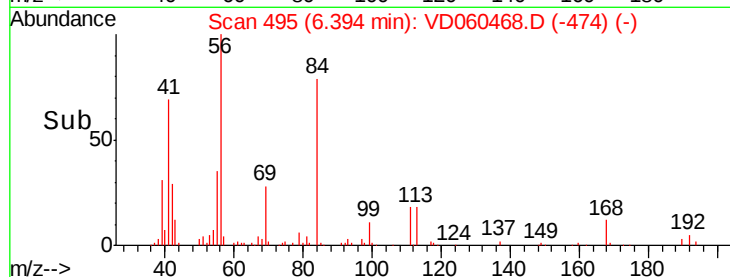
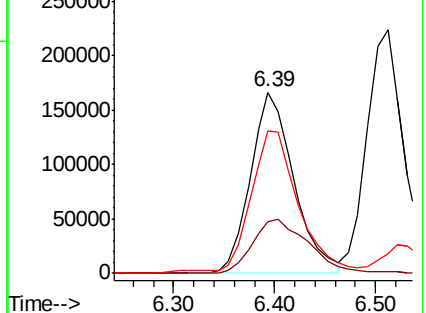
84 78.5 63.0 94.4



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: 22.434 ug/l

RT: 6.32 min Scan# 488

Delta R.T. 0.02 min

Lab File: VD060468.D

Acq: 3 Dec 2018 11:44

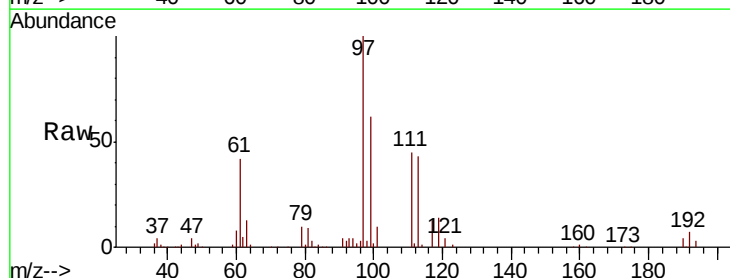
Tgt Ion: 97 Resp: 470943

Ion Ratio Lower Upper

97 100

99 61.5 51.5 77.3

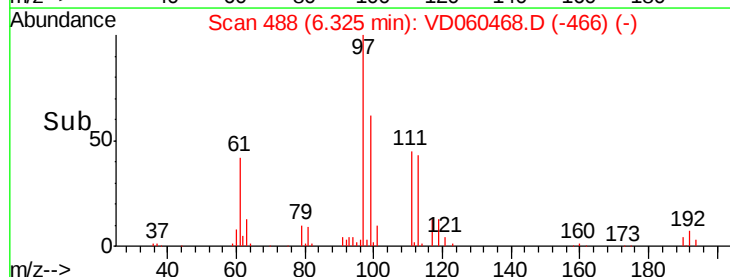
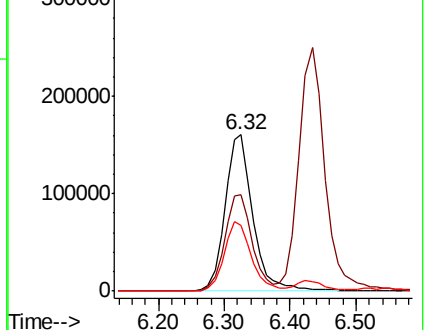
61 41.8 35.8 53.8

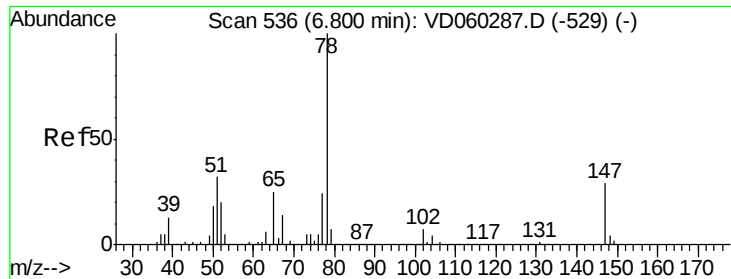


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 98.85 (98.55 to 99.55): VDC

Ion 60.95 (60.65 to 61.65): VDC

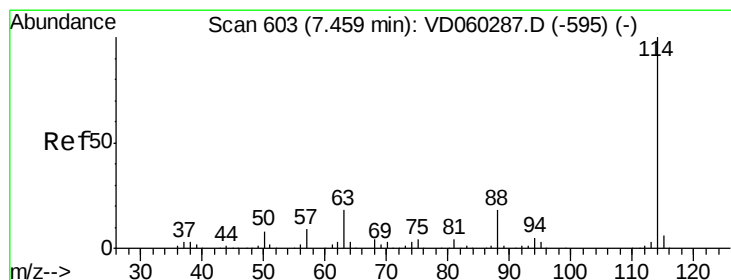
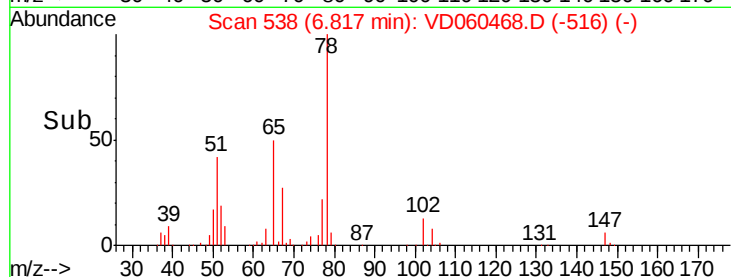
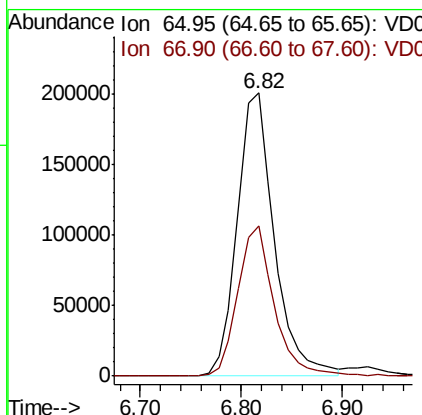
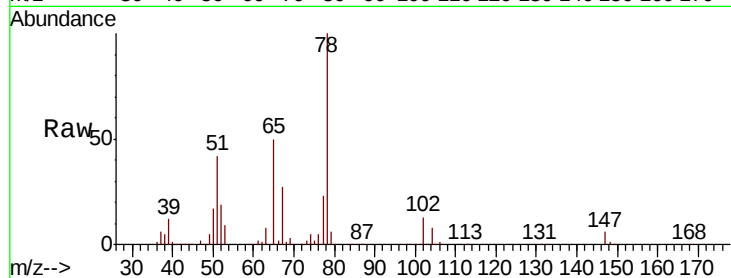




#33
 1,2-Dichloroethane-d4
 Concen: 22.434 ug/l
 RT: 6.82 min Scan# 538
 Delta R.T. 0.02 min
 Lab File: VD060468.D
 Acq: 3 Dec 2018 11:44

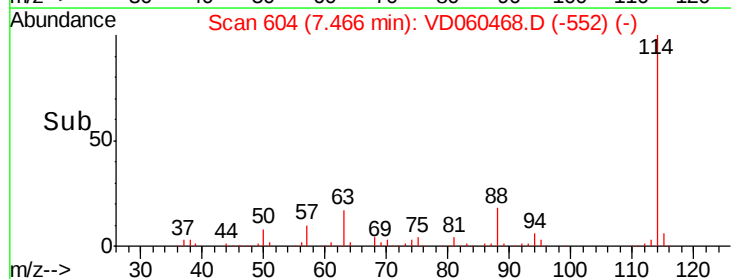
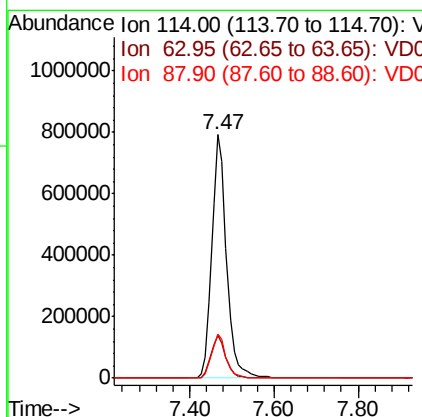
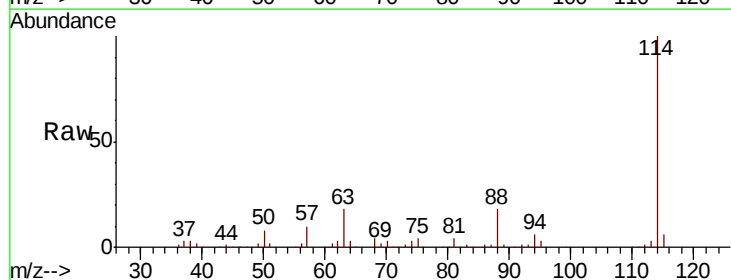
Instrument :
 MSVOA_D
 ClientSampleId :
 VD1203SBS01

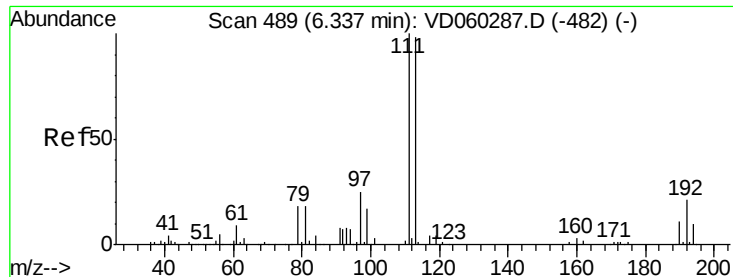
Tot Ion: 65 Resp: 514464
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 109.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 7.47 min Scan# 604
 Delta R.T. 0.01 min
 Lab File: VD060468.D
 Acq: 3 Dec 2018 11:44

Tgt Ion:114 Resp: 1919752
 Ion Ratio Lower Upper
 114 100
 63 17.6 0.0 34.0
 88 18.1 0.0 35.4

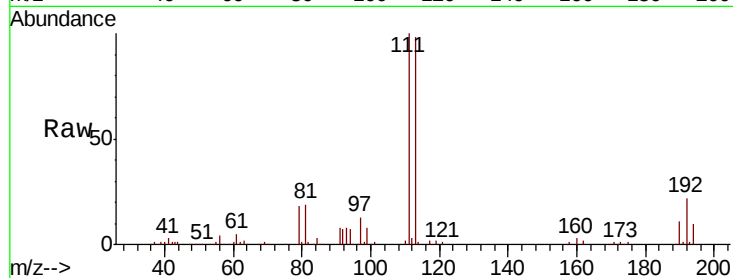




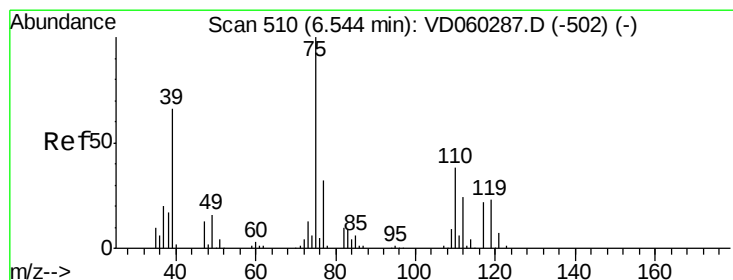
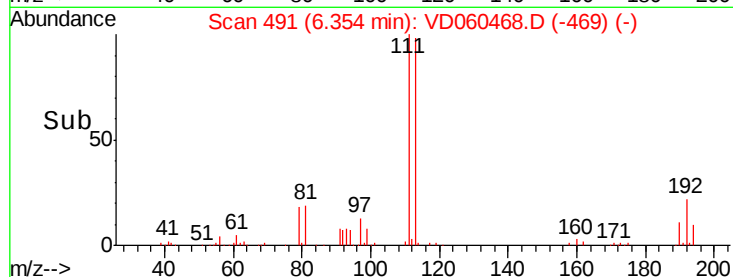
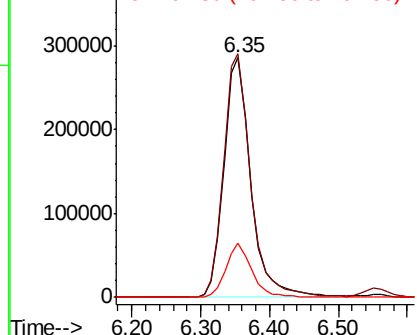
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.35 min Scan# 491
 Delta R.T. 0.02 min
 Lab File: VD060468.D
 Acq: 3 Dec 2018 11:44

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1203SBS01

Tot Ion:113 Resp: 774302
 Ion Ratio Lower Upper
 113 100
 111 101.8 81.6 122.4
 192 22.4 16.5 24.7

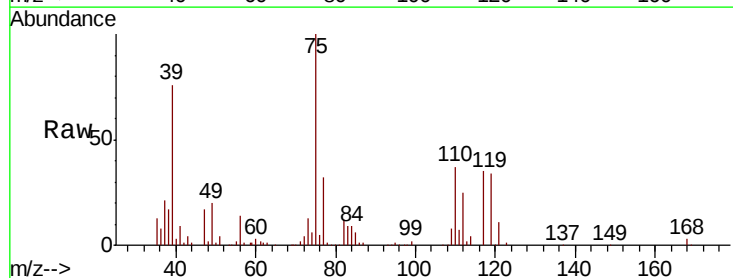


Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

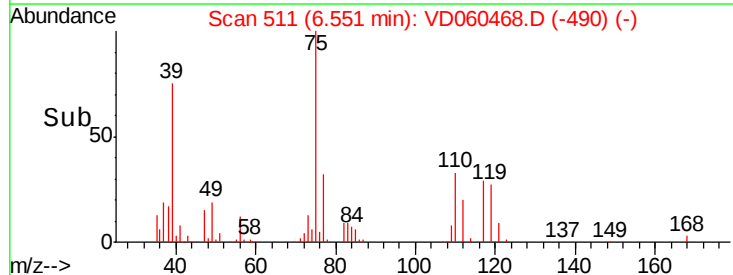
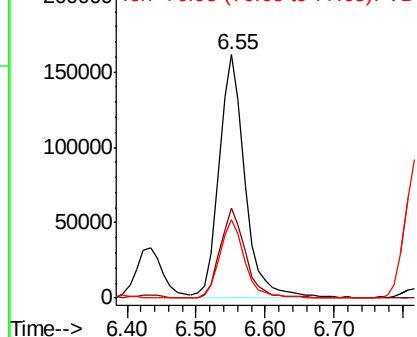


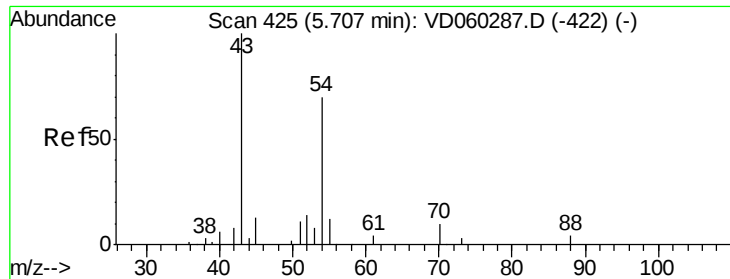
#36
 1,1-Dichloropropene
 Concen: 21.782 ug/l
 RT: 6.55 min Scan# 511
 Delta R.T. 0.01 min
 Lab File: VD060468.D
 Acq: 3 Dec 2018 11:44

Tgt Ion: 75 Resp: 413123
 Ion Ratio Lower Upper
 75 100
 110 37.0 18.0 54.0
 77 32.1 25.6 38.4



Abundance Ion 75.00 (74.70 to 75.70): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.95 (76.65 to 77.65): V

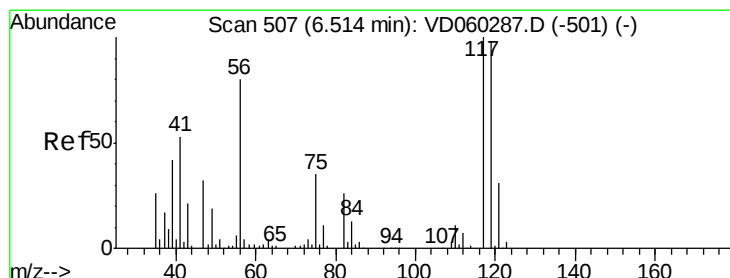
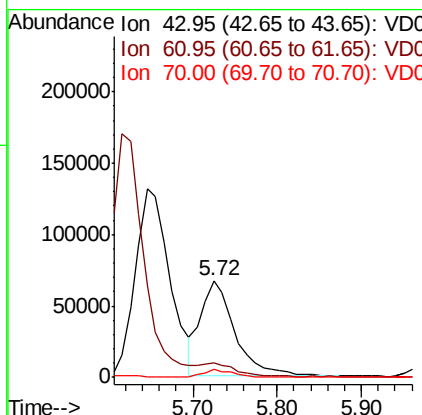
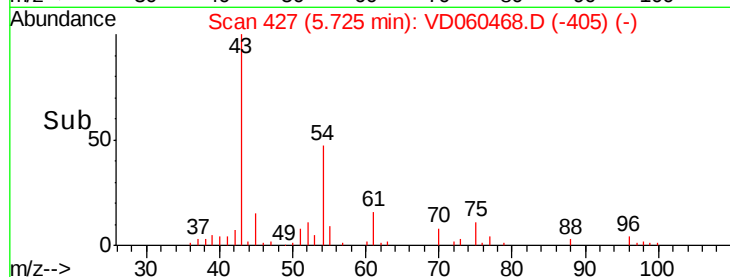
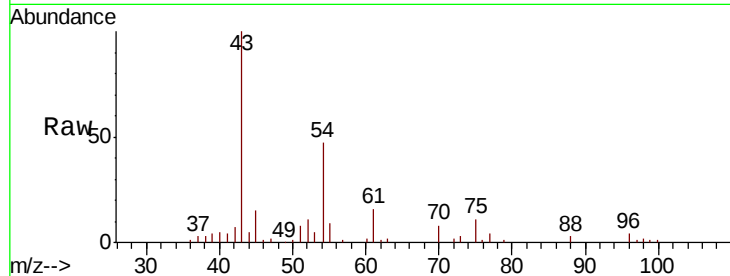




#37
Ethyl Acetate
Concen: 21.296 ug/l
RT: 5.72 min Scan# 427
Delta R.T. 0.02 min
Lab File: VD060468.D
Acq: 3 Dec 2018 11:44

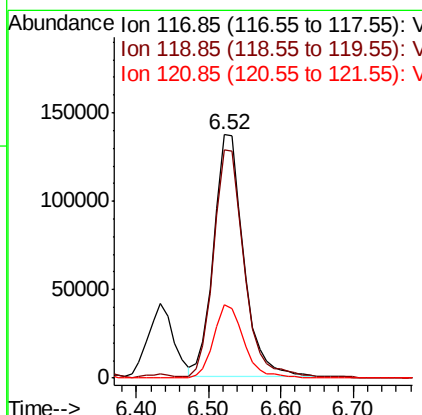
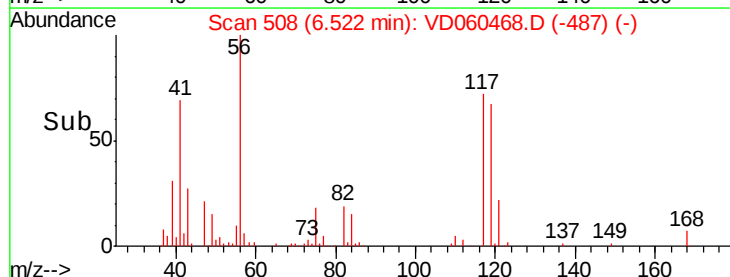
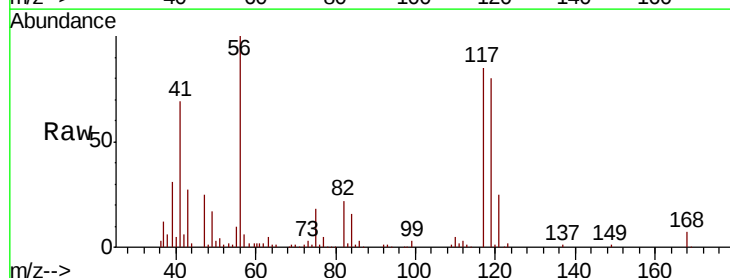
Instrument :
MSVOA_D
ClientSampleId :
VD1203SBS01

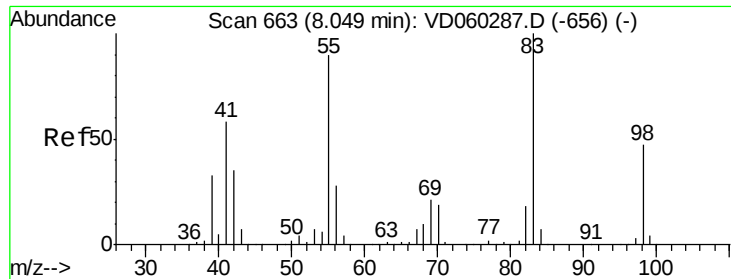
Tot Ion: 43 Resp: 185858
Ion Ratio Lower Upper
43 100
61 15.5 11.8 17.6
70 7.9 6.2 9.4



#38
Carbon Tetrachloride
Concen: 22.375 ug/l
RT: 6.52 min Scan# 508
Delta R.T. 0.01 min
Lab File: VD060468.D
Acq: 3 Dec 2018 11:44

Tgt Ion: 117 Resp: 393655
Ion Ratio Lower Upper
117 100
119 93.9 76.6 115.0
121 29.9 24.3 36.5

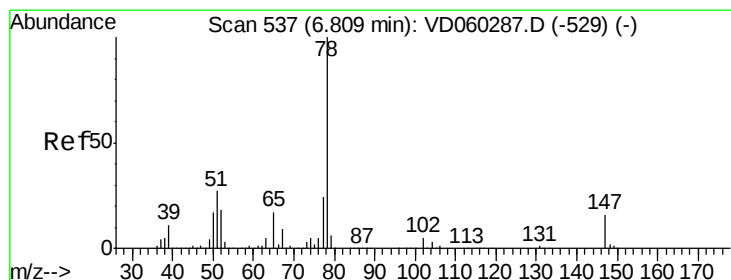
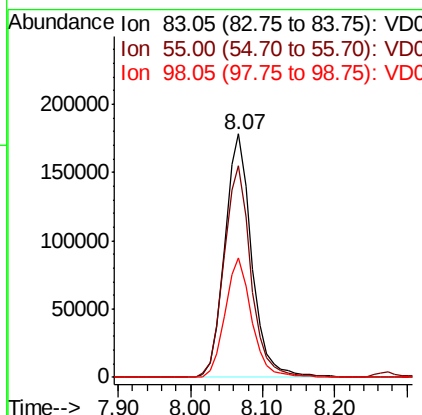
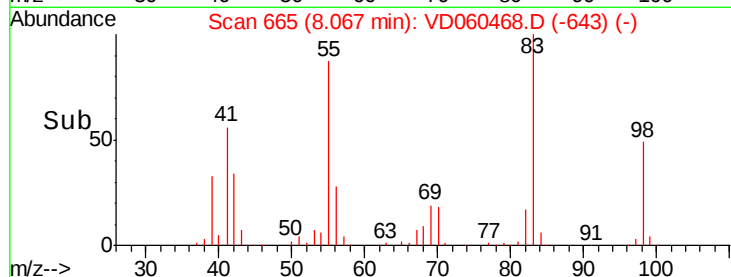
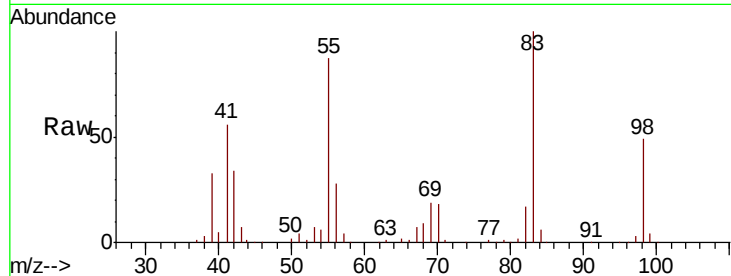




#39
Methylcyclohexane
Concen: 21.170 ug/l
RT: 8.07 min Scan# 665
Delta R.T. 0.02 min
Lab File: VD060468.D
Acq: 3 Dec 2018 11:44

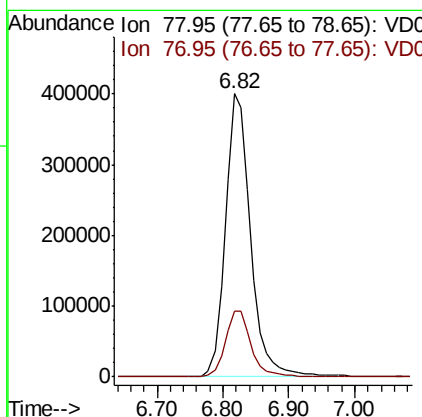
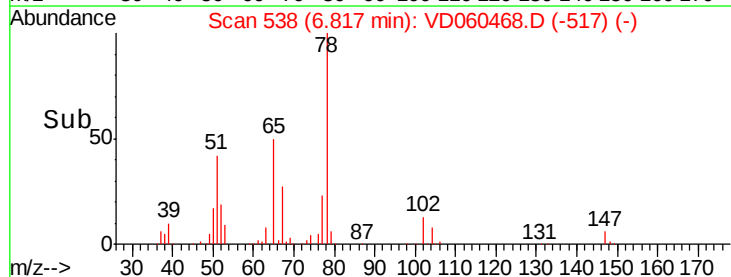
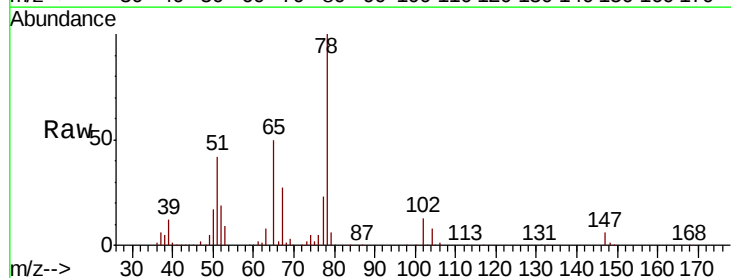
Instrument :
MSVOA_D
ClientSampleId :
VD1203SBS01

Tot Ion: 83 Resp: 461797
Ion Ratio Lower Upper
83 100
55 86.9 71.2 106.8
98 49.1 38.4 57.6



#40
Benzene
Concen: 22.029 ug/l
RT: 6.82 min Scan# 538
Delta R.T. 0.01 min
Lab File: VD060468.D
Acq: 3 Dec 2018 11:44

Tgt Ion: 78 Resp: 1066502
Ion Ratio Lower Upper
78 100
77 23.1 18.8 28.2

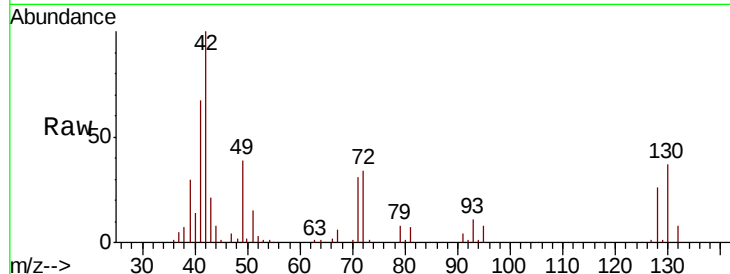




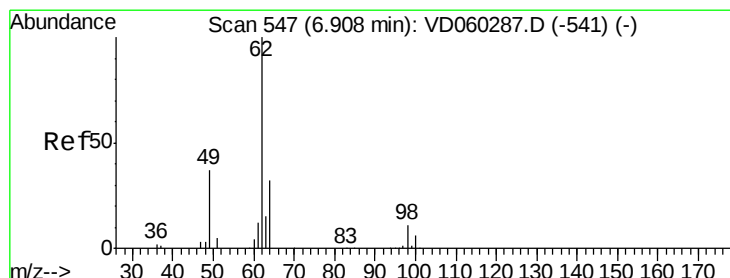
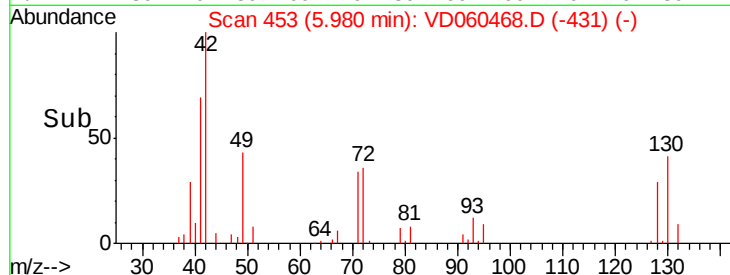
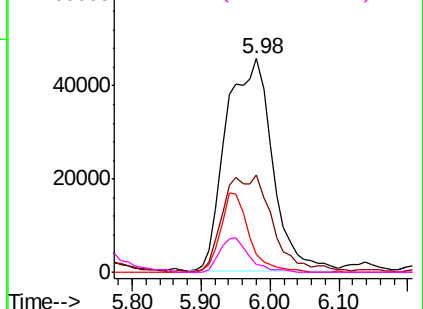
#41
Methacrylonitrile
Concen: 21.378 ug/l
RT: 5.98 min Scan# 453
Delta R.T. 0.02 min
Lab File: VD060468.D
Acq: 3 Dec 2018 11:44

Instrument :
MSVOA_D
ClientSampleId :
VD1203SBS01

Tot Ion: 41 Resp: 213544
Ion Ratio Lower Upper
41 100
39 45.6 36.2 54.2
67 8.6 11.9 17.9#
52 3.8 5.2 7.8#

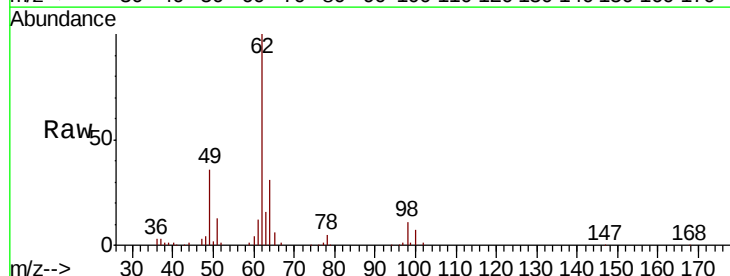


Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 38.95 (38.65 to 39.65): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC

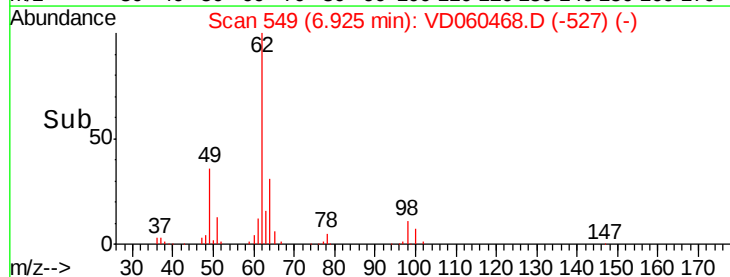
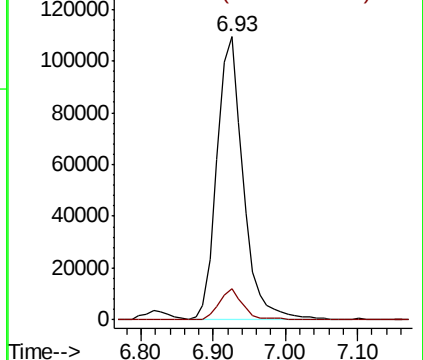


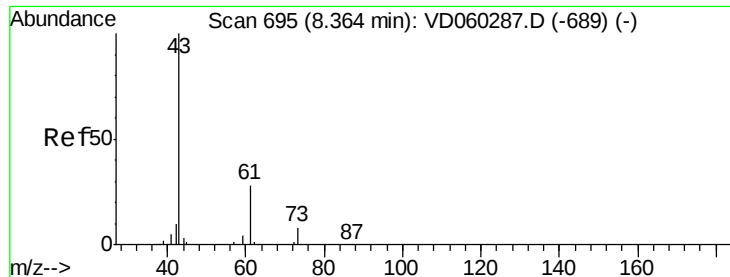
#42
1,2-Dichloroethane
Concen: 21.641 ug/l
RT: 6.93 min Scan# 549
Delta R.T. 0.02 min
Lab File: VD060468.D
Acq: 3 Dec 2018 11:44

Tgt Ion: 62 Resp: 274230
Ion Ratio Lower Upper
62 100
98 10.9 0.0 22.0



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





#43

Isopropyl Acetate

Concen: 20.761 ug/l

RT: 8.37 min Scan# 696

Delta R.T. 0.01 min

Lab File: VD060468.D

Acq: 3 Dec 2018 11:44

Instrument :

MSVOA_D

ClientSampleId :

VD1203SBS01

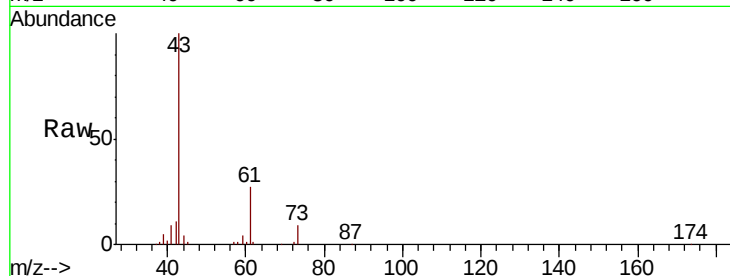
Tot Ion: 43 Resp: 227604

Ion Ratio Lower Upper

43 100

61 27.2 22.3 33.5

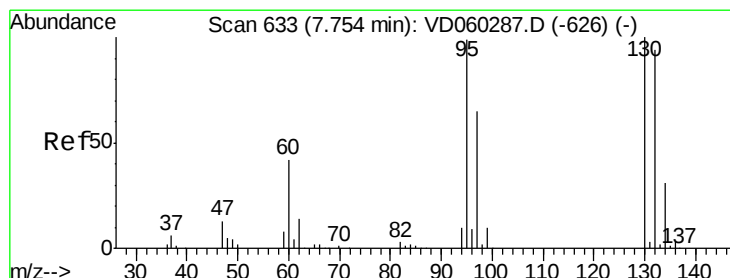
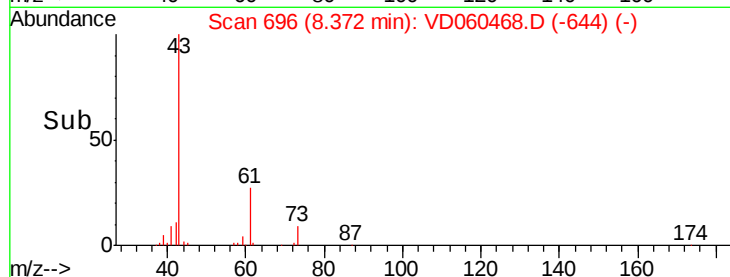
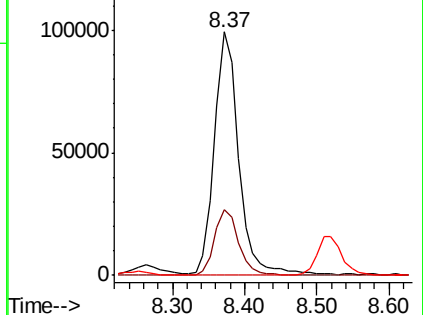
87 0.3 0.2 0.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 22.443 ug/l

RT: 7.77 min Scan# 635

Delta R.T. 0.02 min

Lab File: VD060468.D

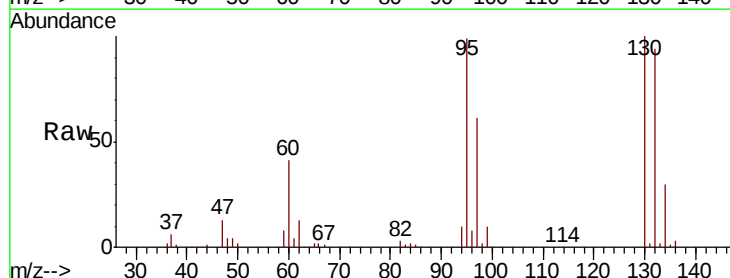
Acq: 3 Dec 2018 11:44

Tgt Ion: 130 Resp: 329368

Ion Ratio Lower Upper

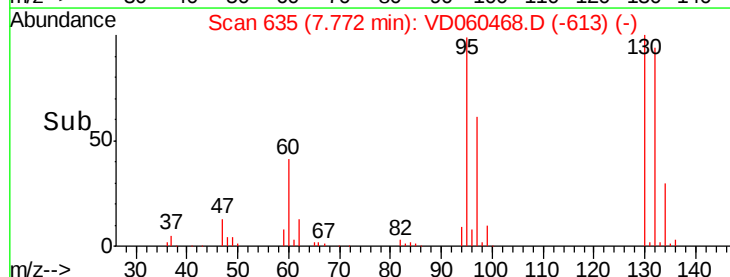
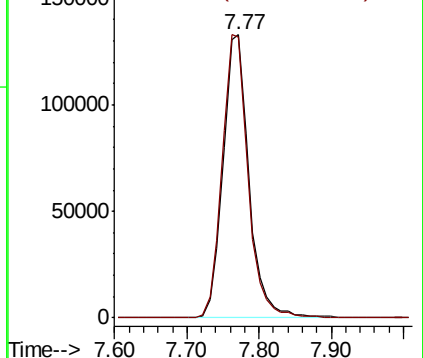
130 100

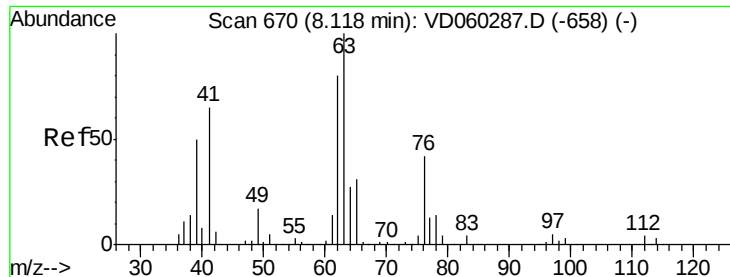
95 99.5 0.0 200.0



Abundance Ion 129.80 (129.50 to 130.50): VDC

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 22.333 ug/l

RT: 8.13 min Scan# 671

Delta R.T. 0.01 min

Lab File: VD060468.D

Acq: 3 Dec 2018 11:44

Instrument :

MSVOA_D

ClientSampleId :

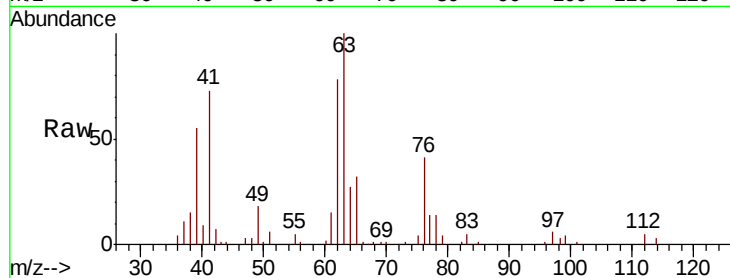
VD1203SBS01

Tot Ion: 63 Resp: 272683

Ion Ratio Lower Upper

63 100

65 31.7 23.4 35.2



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

8.13

120000

100000

80000

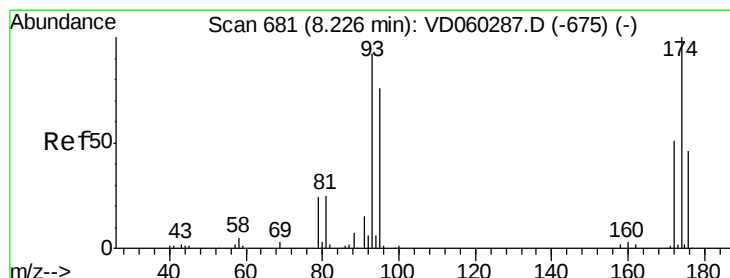
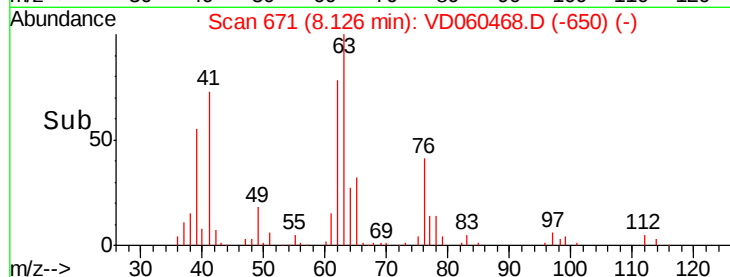
60000

40000

20000

0

Time--> 7.90 8.00 8.10 8.20 8.30



#46

Dibromomethane

Concen: 21.169 ug/l

RT: 8.24 min Scan# 683

Delta R.T. 0.02 min

Lab File: VD060468.D

Acq: 3 Dec 2018 11:44

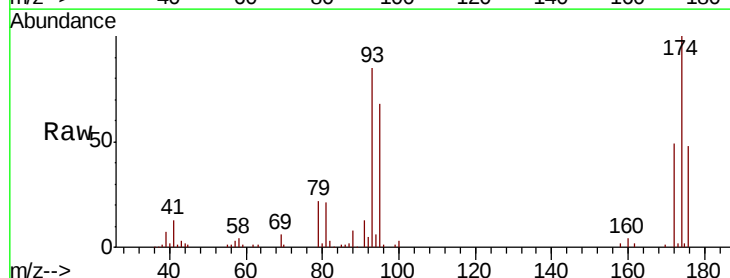
Tgt Ion: 93 Resp: 151383

Ion Ratio Lower Upper

93 100

95 80.4 66.4 99.6

174 118.0 87.8 131.8



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

100000

80000

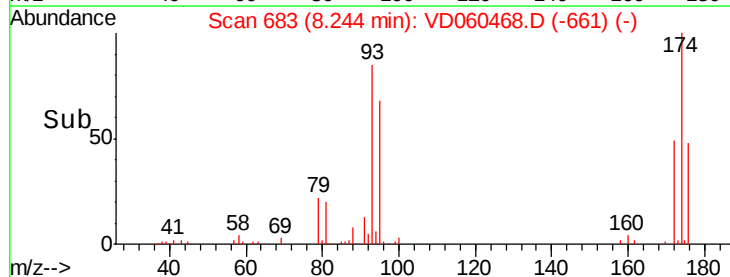
60000

40000

20000

0

Time--> 8.10 8.20 8.30 8.40





#47

Bromodichloromethane

Concen: 21.962 ug/l

RT: 8.52 min Scan# 711

Delta R.T. 0.02 min

Lab File: VD060468.D

Acq: 3 Dec 2018 11:44

Instrument :

MSVOA_D

ClientSampleId :

VD1203SBS01

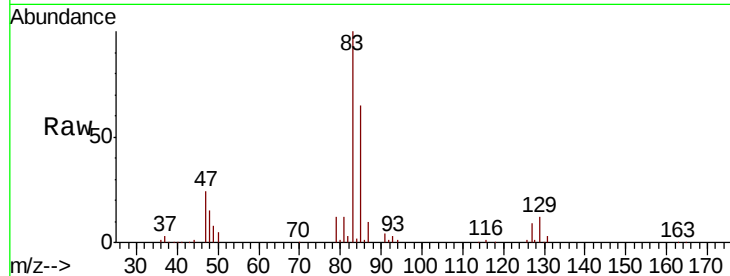
Tot Ion: 83 Resp: 370097

Ion Ratio Lower Upper

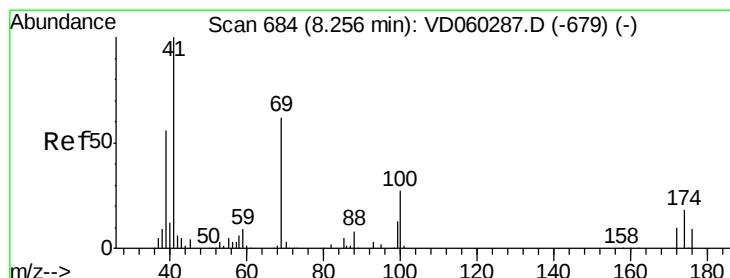
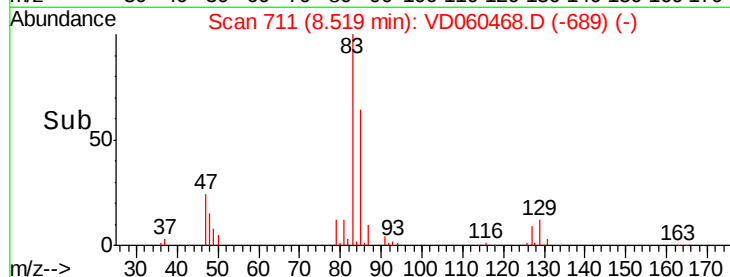
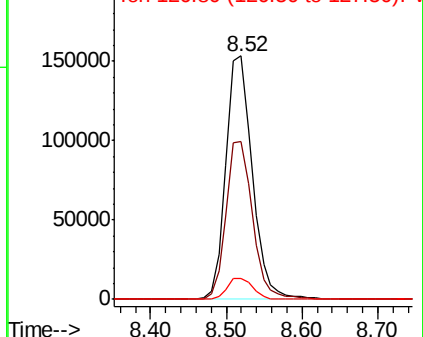
83 100

85 64.7 51.0 76.6

127 8.8 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: 20.905 ug/l

RT: 8.27 min Scan# 686

Delta R.T. 0.02 min

Lab File: VD060468.D

Acq: 3 Dec 2018 11:44

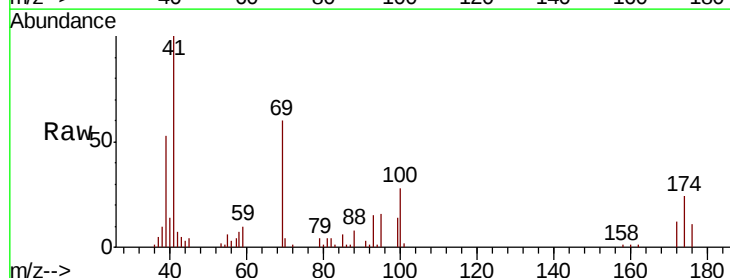
Tgt Ion: 41 Resp: 139205

Ion Ratio Lower Upper

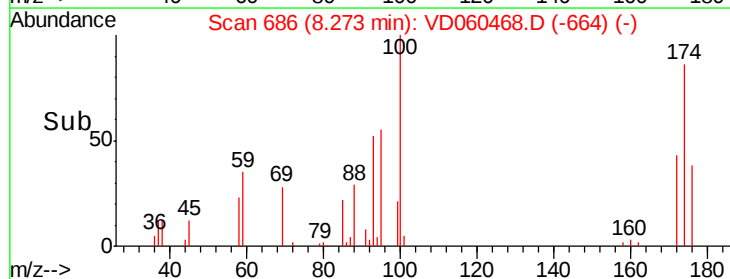
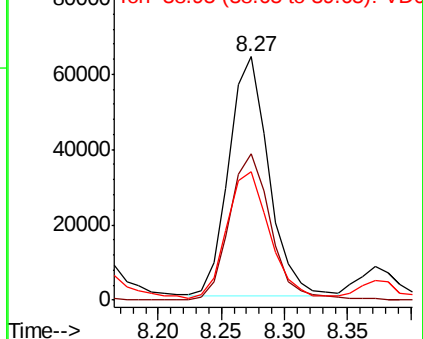
41 100

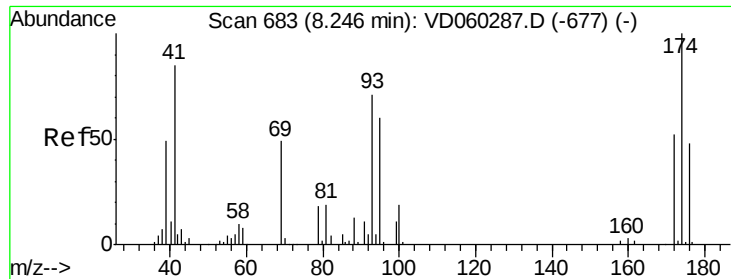
69 60.1 47.0 70.4

39 52.8 46.2 69.4



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

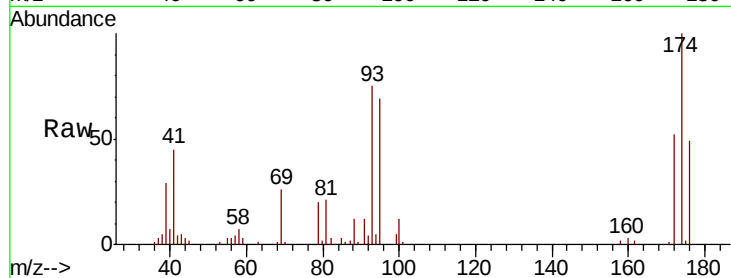




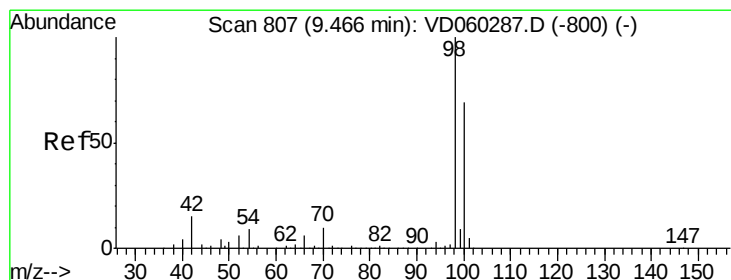
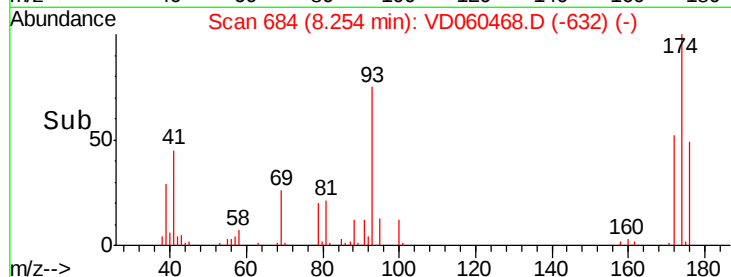
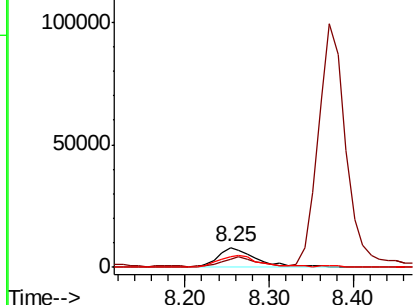
#49
1,4-Dioxane
Concen: 439.735 ug/l
RT: 8.25 min Scan# 684
Delta R.T. 0.01 min
Lab File: VD060468.D
Acq: 3 Dec 2018 11:44

Instrument :
MSVOA_D
ClientSampleId :
VD1203SBS01

Tot Ion: 88 Resp: 25336
Ion Ratio Lower Upper
88 100
43 41.8 39.7 59.5
58 55.8 60.2 90.2#

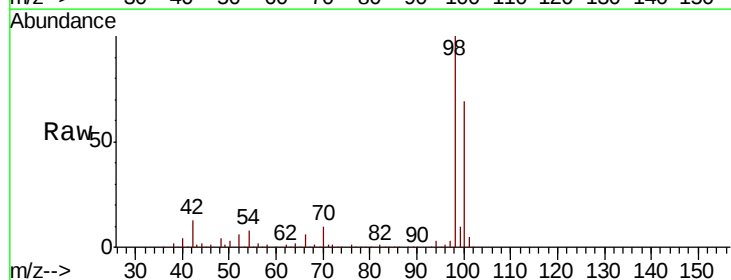


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

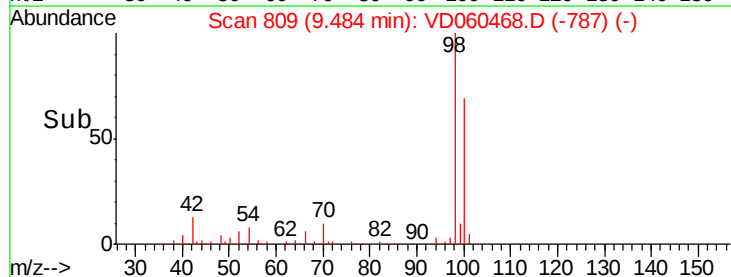
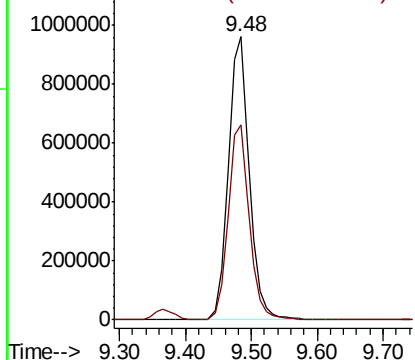


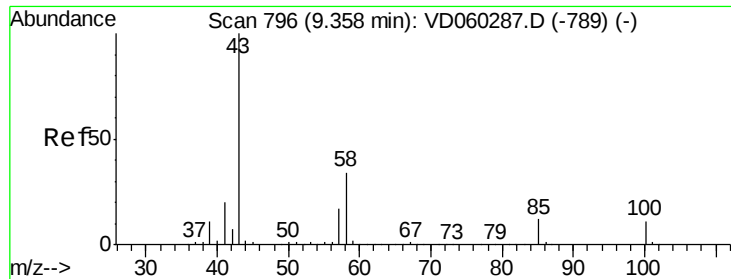
#50
Toluene-d8
Concen: 439.735 ug/l
RT: 9.48 min Scan# 809
Delta R.T. 0.02 min
Lab File: VD060468.D
Acq: 3 Dec 2018 11:44

Tgt Ion: 98 Resp: 2148126
Ion Ratio Lower Upper
98 100
100 68.8 55.2 82.8



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC





#51

4-Methyl-2-Pentanone

Concen: 104.314 ug/l

RT: 9.37 min Scan# 797

Delta R.T. 0.01 min

Lab File: VD060468.D

Acq: 3 Dec 2018 11:44

Instrument :

MSVOA_D

ClientSampleId :

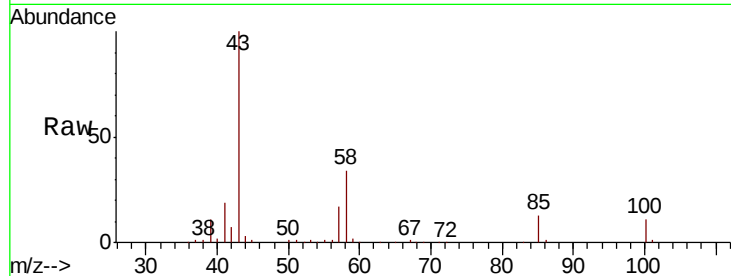
VD1203SBS01

Tot Ion: 43 Resp: 744310

Ion Ratio Lower Upper

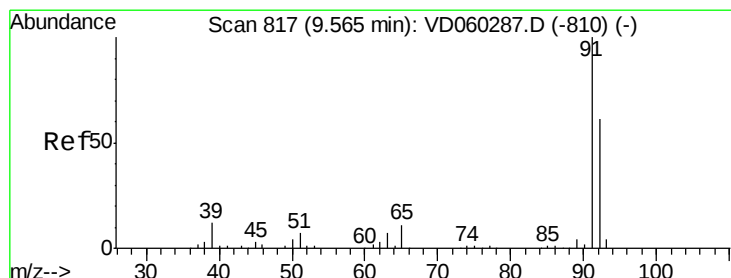
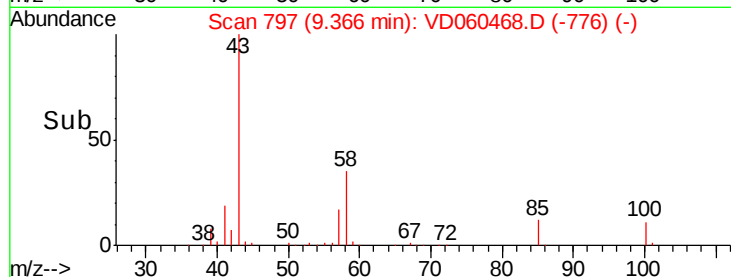
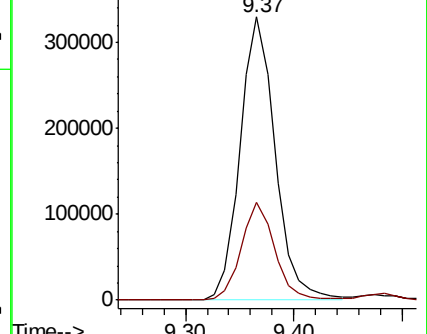
43 100

58 34.5 26.1 39.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 21.955 ug/l

RT: 9.57 min Scan# 818

Delta R.T. 0.01 min

Lab File: VD060468.D

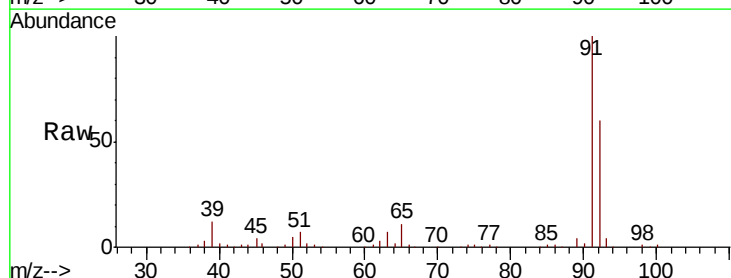
Acq: 3 Dec 2018 11:44

Tgt Ion: 92 Resp: 678970

Ion Ratio Lower Upper

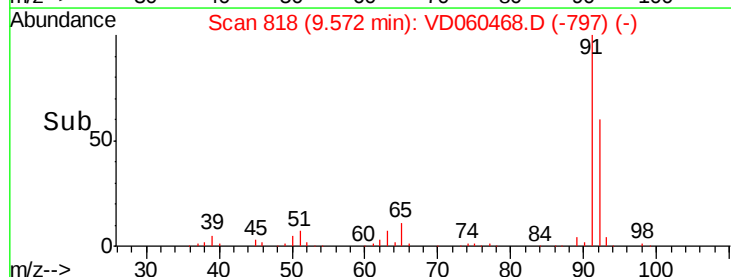
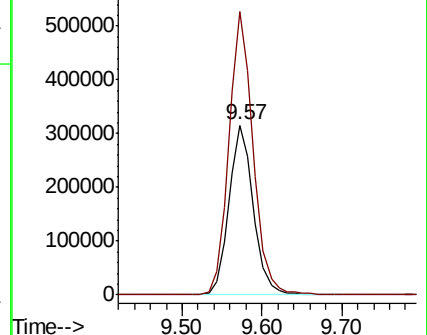
92 100

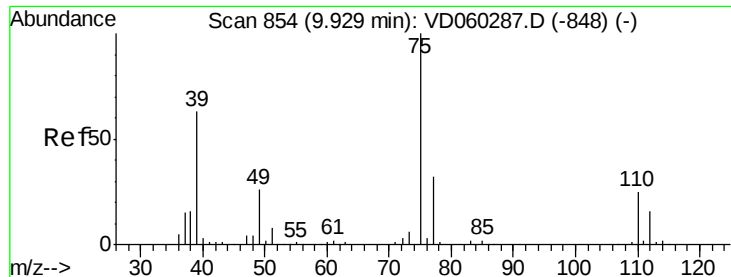
91 166.5 131.9 197.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

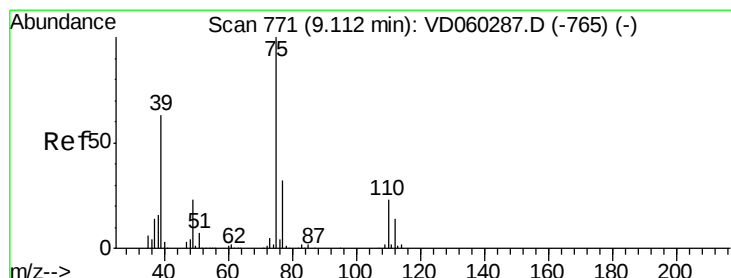
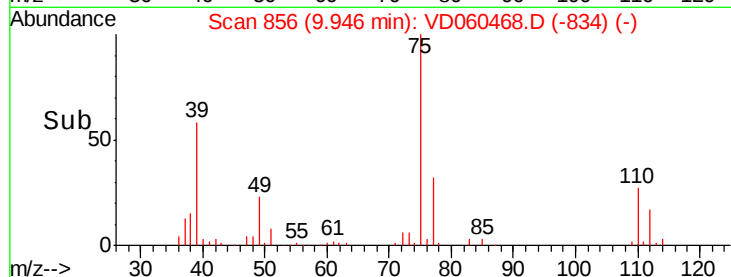
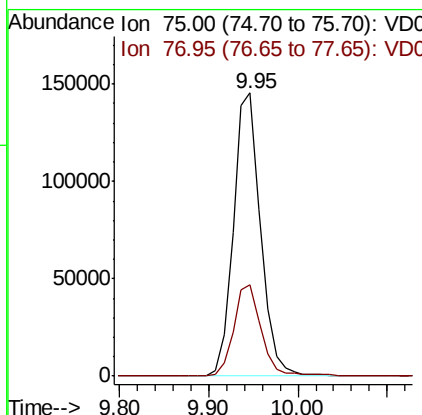
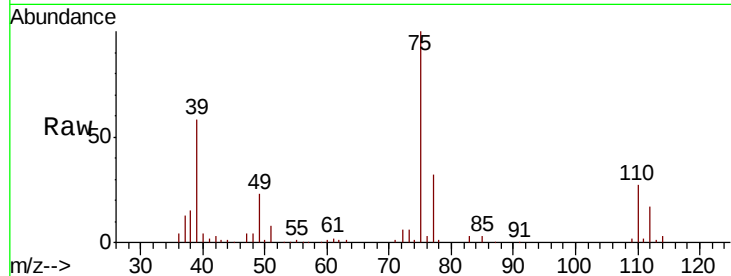




#53
t-1,3-Dichloropropene
Concen: 21.704 ug/l
RT: 9.95 min Scan# 856
Delta R.T. 0.02 min
Lab File: VD060468.D
Acq: 3 Dec 2018 11:44

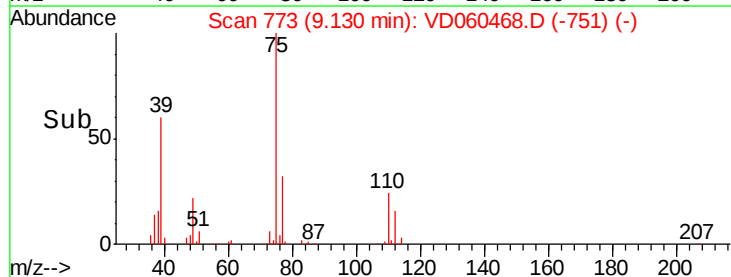
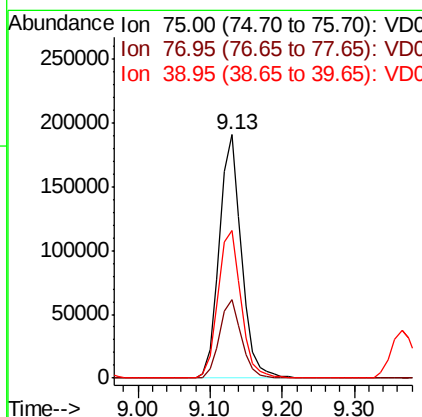
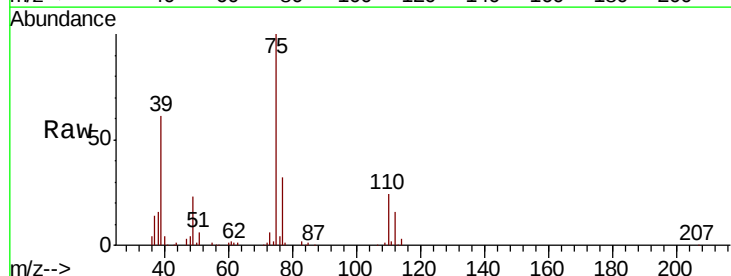
Instrument :
MSVOA_D
ClientSampleId :
VD1203SBS01

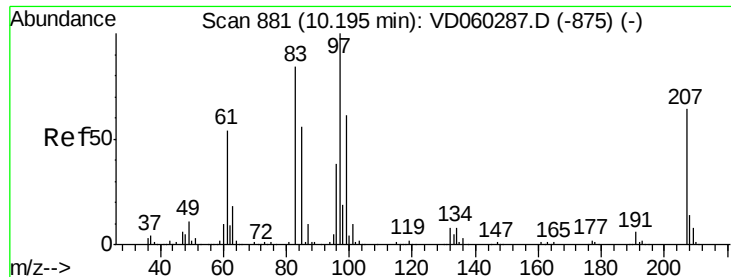
Tot Ion: 75 Resp: 309031
Ion Ratio Lower Upper
75 100
77 32.5 25.2 37.8



#54
cis-1,3-Dichloropropene
Concen: 22.108 ug/l
RT: 9.13 min Scan# 773
Delta R.T. 0.02 min
Lab File: VD060468.D
Acq: 3 Dec 2018 11:44

Tgt Ion: 75 Resp: 403736
Ion Ratio Lower Upper
75 100
77 32.0 26.3 39.5
39 60.8 50.8 76.2

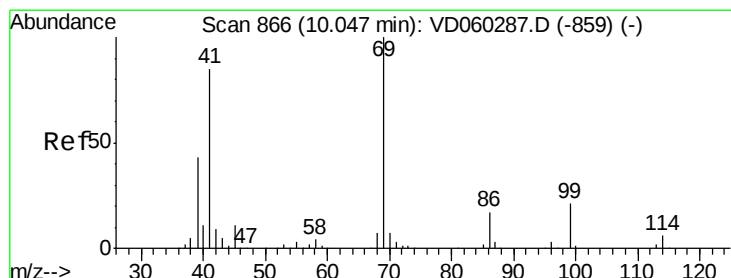
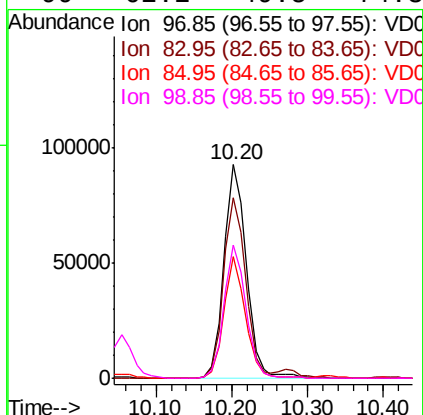
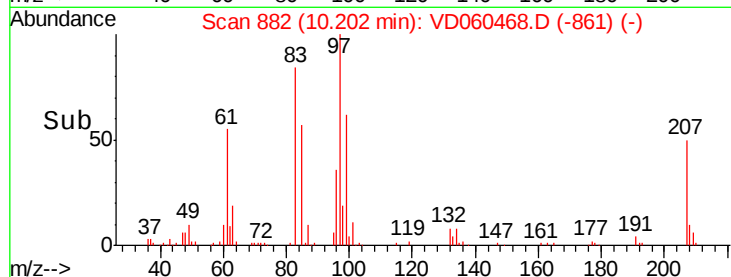
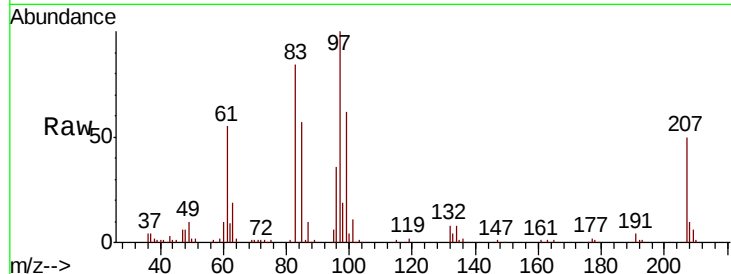




#55
 1,1,2-Trichloroethane
 Concen: 21.239 ug/l
 RT: 10.20 min Scan# 882
 Delta R.T. 0.01 min
 Lab File: VD060468.D
 Acq: 3 Dec 2018 11:44

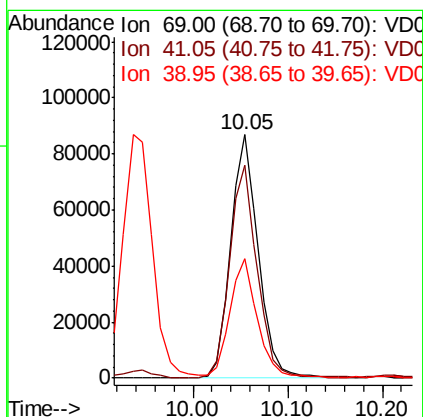
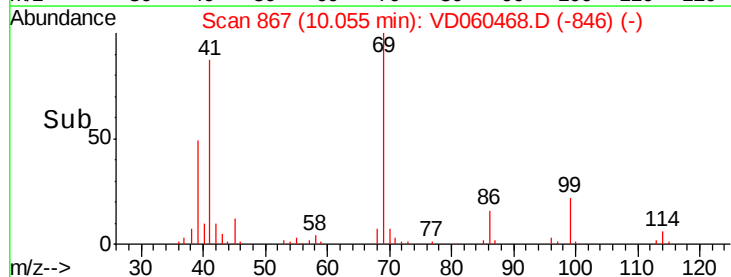
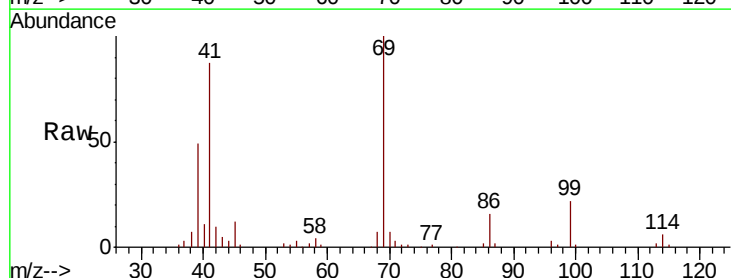
Instrument :
 MSVOA_D
 ClientSampleId :
 VD1203SBS01

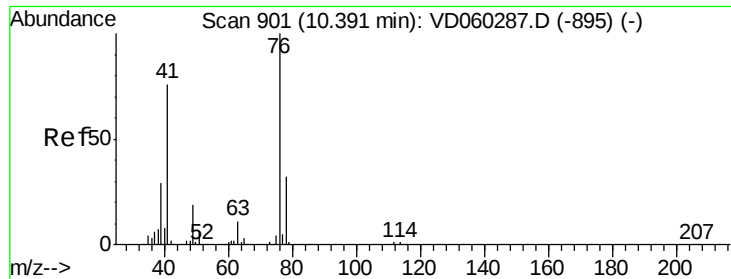
Tot Ion: 97 Resp: 190378
 Ion Ratio Lower Upper
 97 100
 83 84.3 68.4 102.6
 85 57.2 46.8 70.2
 99 62.2 49.5 74.3



#56
 Ethyl methacrylate
 Concen: 21.144 ug/l
 RT: 10.05 min Scan# 867
 Delta R.T. 0.01 min
 Lab File: VD060468.D
 Acq: 3 Dec 2018 11:44

Tgt Ion: 69 Resp: 174255
 Ion Ratio Lower Upper
 69 100
 41 87.4 69.0 103.4
 39 49.0 36.6 54.8





#57

1,3-Dichloropropane

Concen: 21.005 ug/l

RT: 10.41 min Scan# 903

Delta R.T. 0.02 min

Lab File: VD060468.D

Acq: 3 Dec 2018 11:44

Instrument :

MSVOA_D

ClientSampleId :

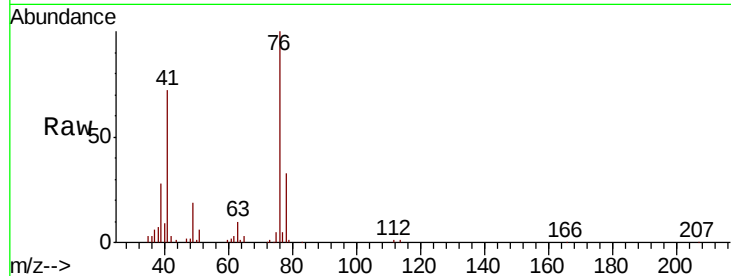
VD1203SBS01

Tot Ion: 76 Resp: 286886

Ion Ratio Lower Upper

76 100

78 32.5 25.9 38.9



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC

10.41

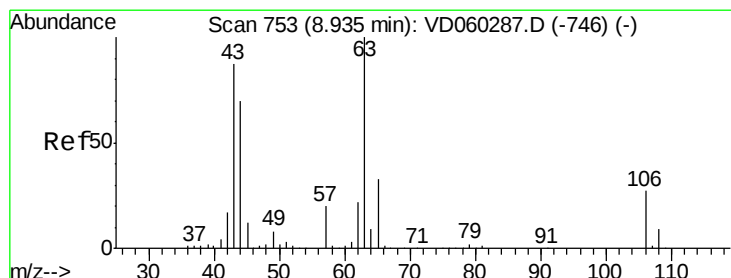
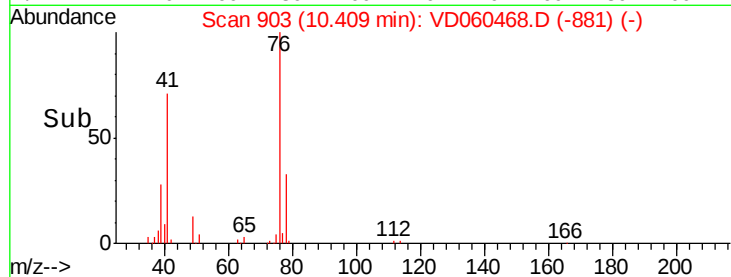
150000

100000

50000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 107.752 ug/l

RT: 8.94 min Scan# 754

Delta R.T. 0.01 min

Lab File: VD060468.D

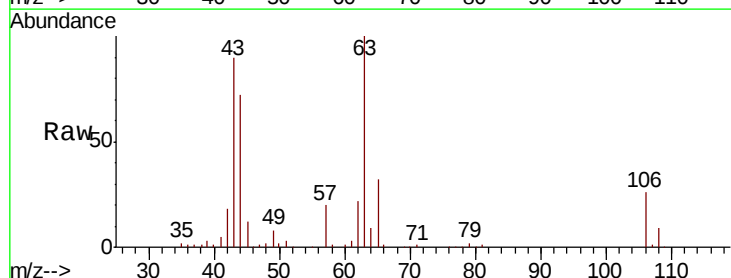
Acq: 3 Dec 2018 11:44

Tgt Ion: 63 Resp: 536949

Ion Ratio Lower Upper

63 100

106 26.0 21.5 32.3



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): VDC

8.94

250000

200000

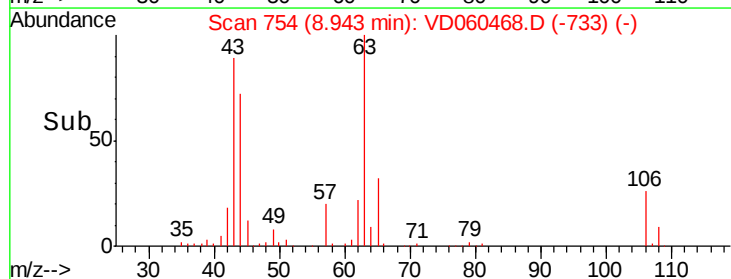
150000

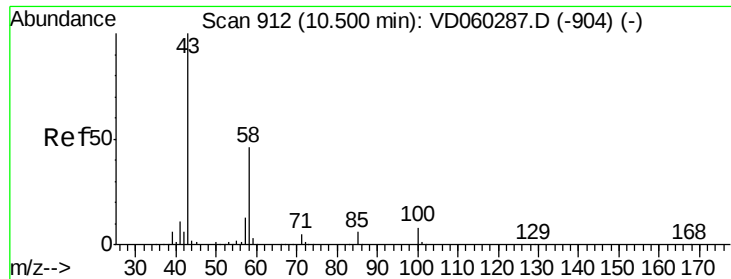
100000

50000

0

Time-->

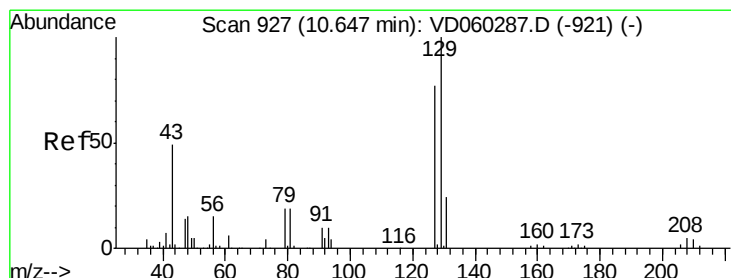
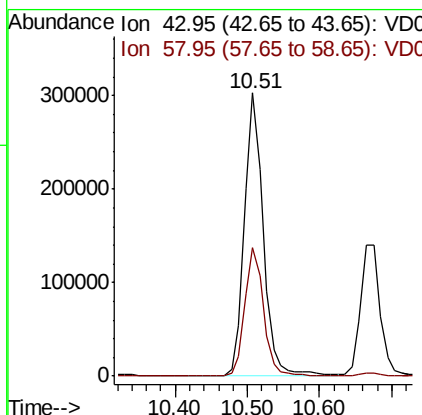
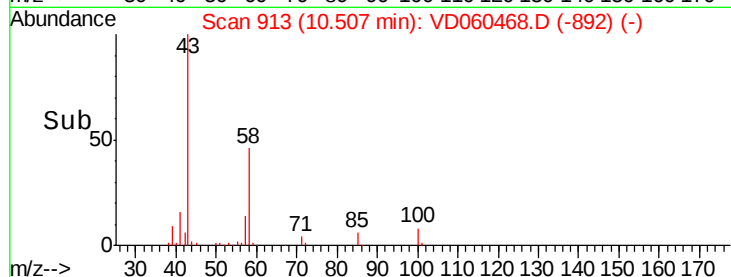
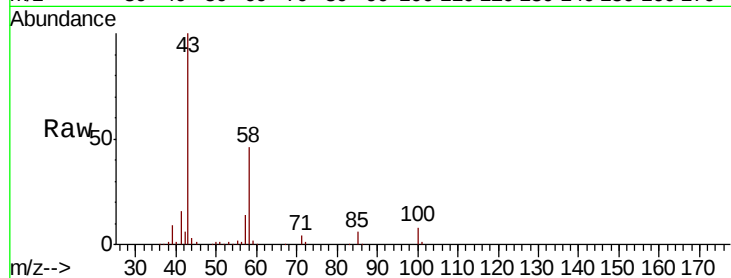




#59
2-Hexanone
Concen: 109.862 ug/l
RT: 10.51 min Scan# 913
Delta R.T. 0.01 min
Lab File: VD060468.D
Acq: 3 Dec 2018 11:44

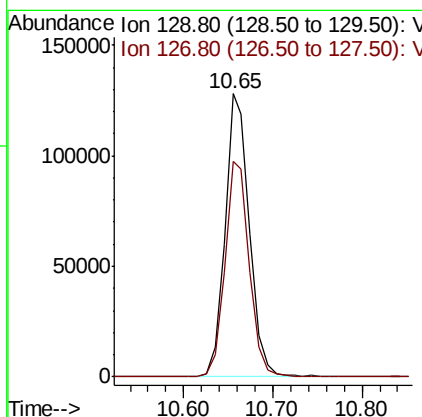
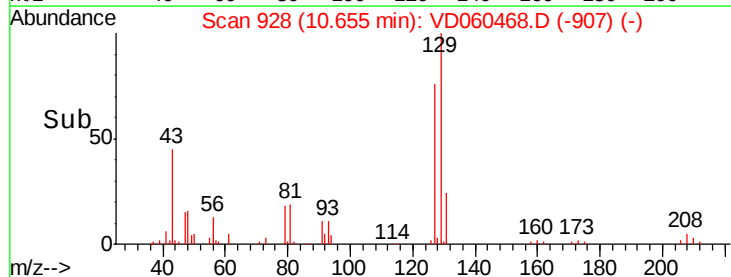
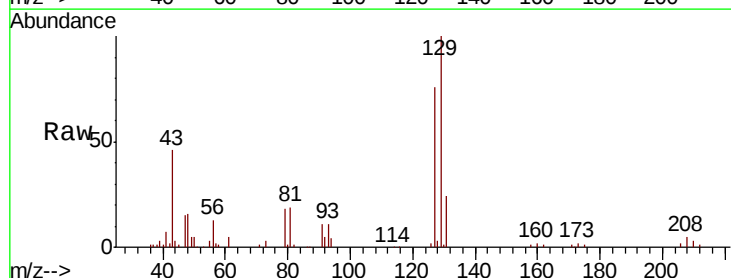
Instrument :
MSVOA_D
ClientSampleId :
VD1203SBS01

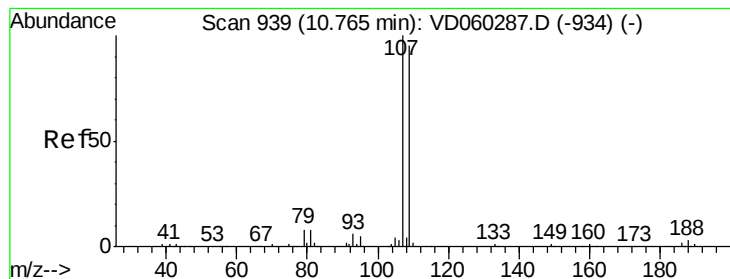
Tot Ion: 43 Resp: 558717
Ion Ratio Lower Upper
43 100
58 45.6 22.9 68.5



#60
Dibromochloromethane
Concen: 22.493 ug/l
RT: 10.65 min Scan# 928
Delta R.T. 0.01 min
Lab File: VD060468.D
Acq: 3 Dec 2018 11:44

Tgt Ion:129 Resp: 245078
Ion Ratio Lower Upper
129 100
127 75.9 38.9 116.6





#61

1,2-Dibromoethane

Concen: 21.990 ug/l

RT: 10.77 min Scan# 940

Delta R.T. 0.01 min

Lab File: VD060468.D

Acq: 3 Dec 2018 11:44

Instrument :

MSVOA_D

ClientSampleId :

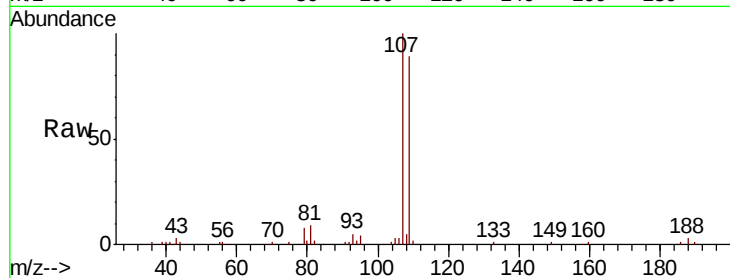
VD1203SBS01

Tot Ion:107 Resp: 197486

Ion Ratio Lower Upper

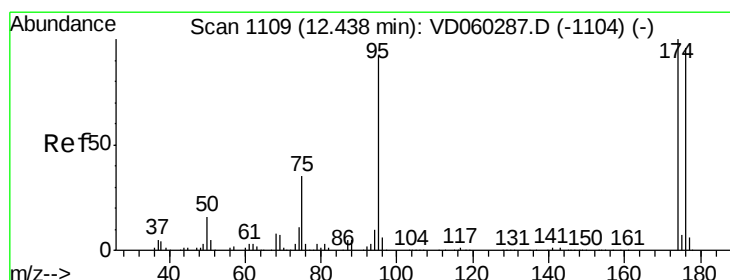
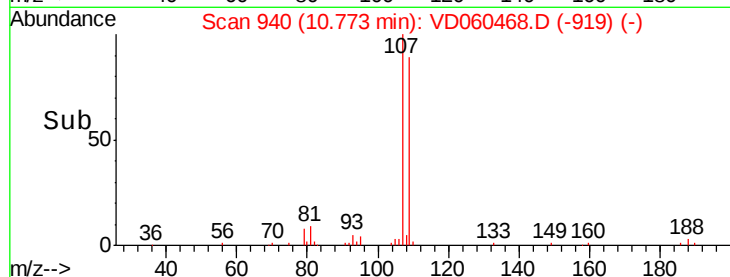
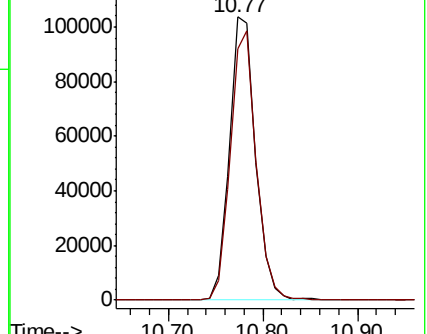
107 100

109 88.9 75.7 113.5



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V



#62

4-Bromofluorobenzene

Concen: 21.990 ug/l

RT: 12.44 min Scan# 1109

Delta R.T. -0.00 min

Lab File: VD060468.D

Acq: 3 Dec 2018 11:44

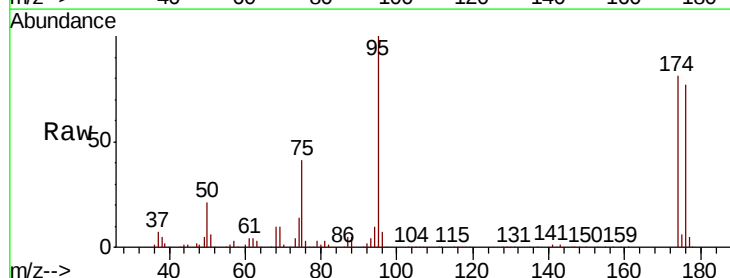
Tgt Ion: 95 Resp: 790251

Ion Ratio Lower Upper

95 100

174 81.4 0.0 160.8

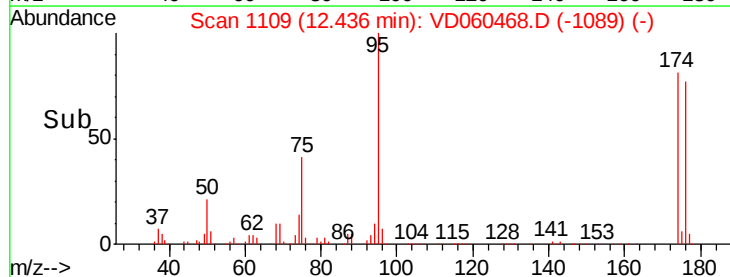
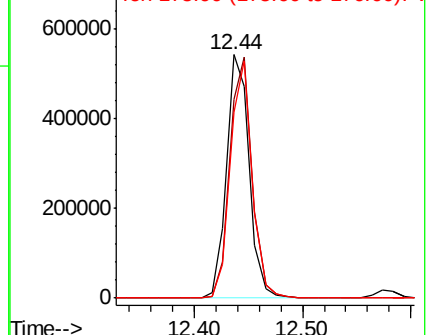
176 76.7 0.0 154.6

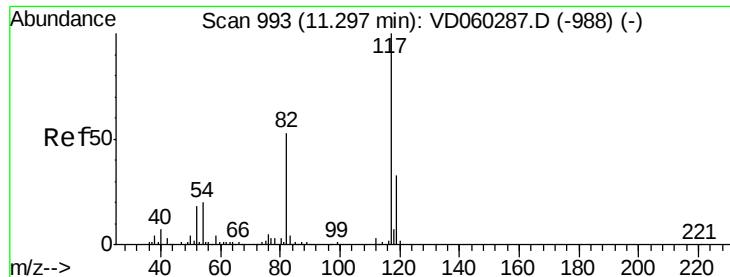


Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

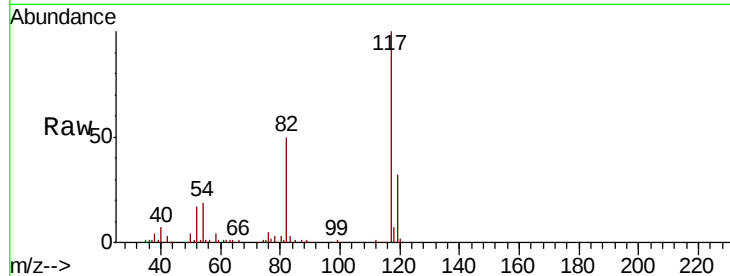




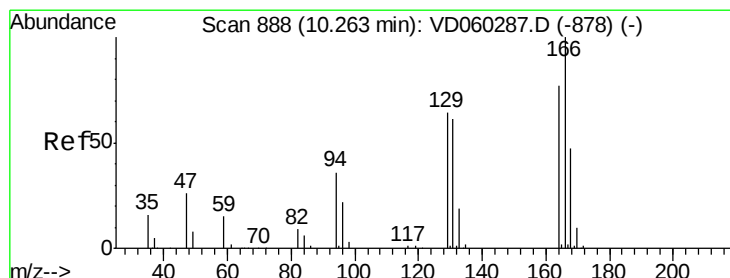
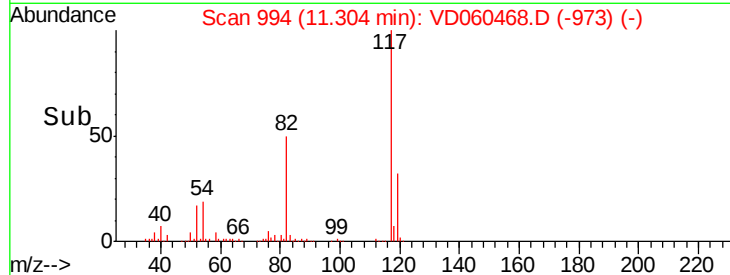
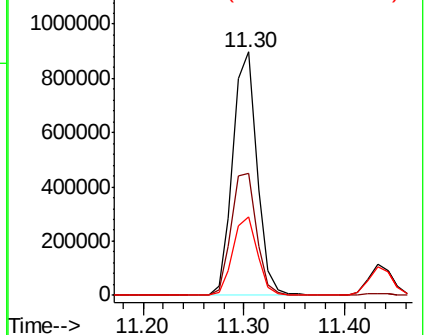
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.30 min Scan# 994
Delta R.T. 0.01 min
Lab File: VD060468.D
Acq: 3 Dec 2018 11:44

Instrument :
MSVOA_D
ClientSampleId :
VD1203SBS01

Tot Ion:117 Resp: 1501787
Ion Ratio Lower Upper
117 100
82 50.4 43.7 65.5
119 32.5 26.1 39.1

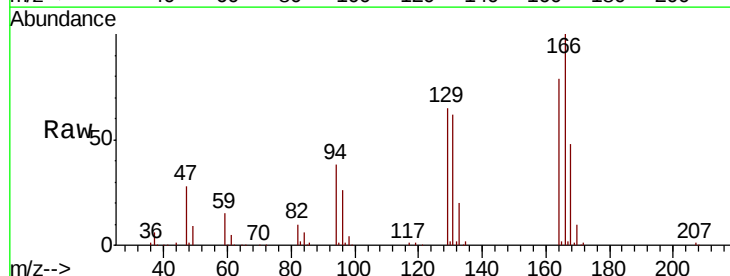


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

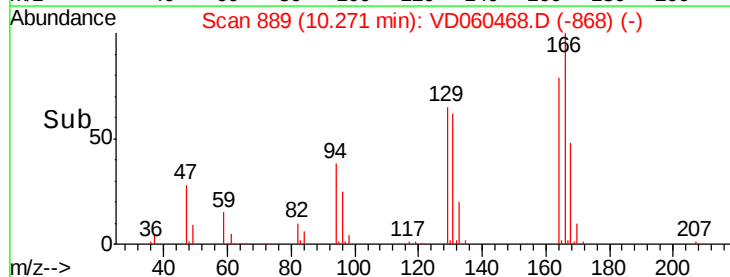
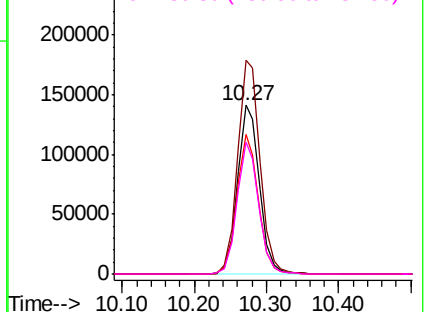


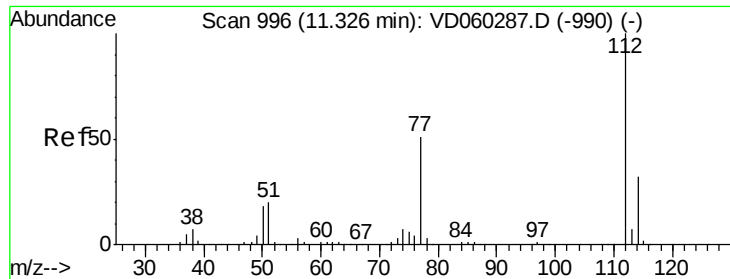
#64
Tetrachloroethene
Concen: 22.194 ug/l
RT: 10.27 min Scan# 889
Delta R.T. 0.01 min
Lab File: VD060468.D
Acq: 3 Dec 2018 11:44

Tgt Ion:164 Resp: 297550
Ion Ratio Lower Upper
164 100
166 126.6 103.7 155.5
129 82.5 65.6 98.4
131 78.1 64.4 96.6



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.85 (165.55 to 166.55): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

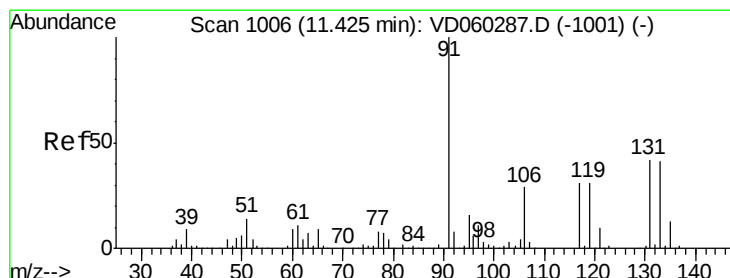
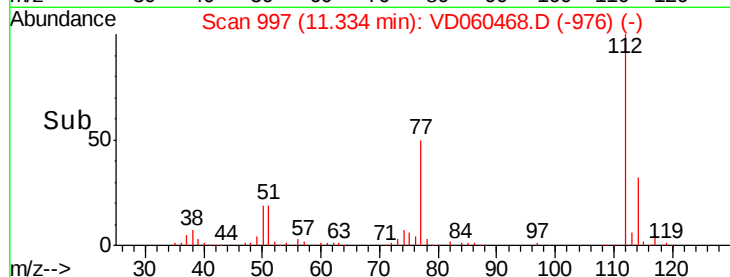
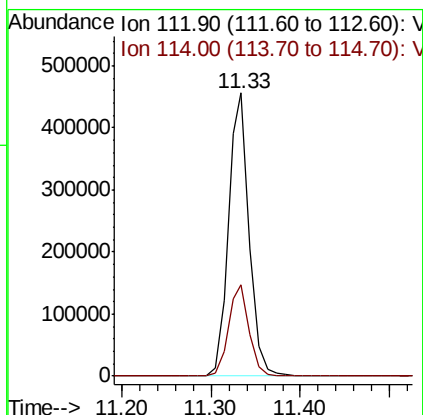
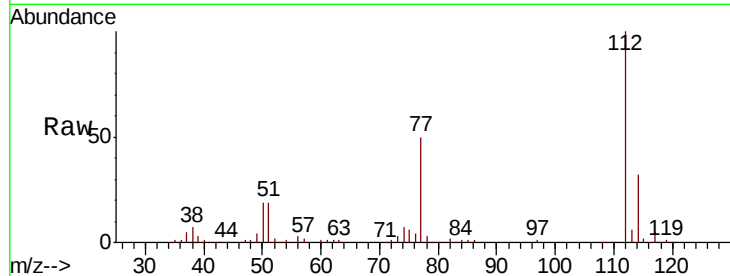




#65
Chlorobenzene
Concen: 22.841 ug/l
RT: 11.33 min Scan# 997
Delta R.T. 0.01 min
Lab File: VD060468.D
Acq: 3 Dec 2018 11:44

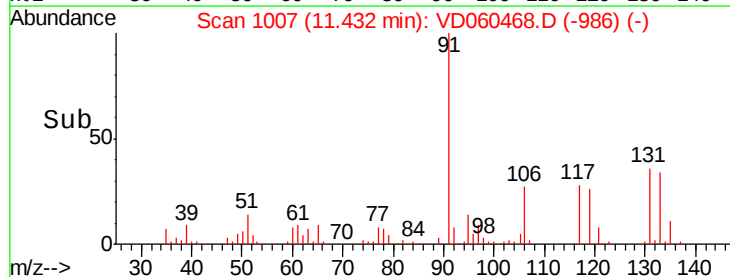
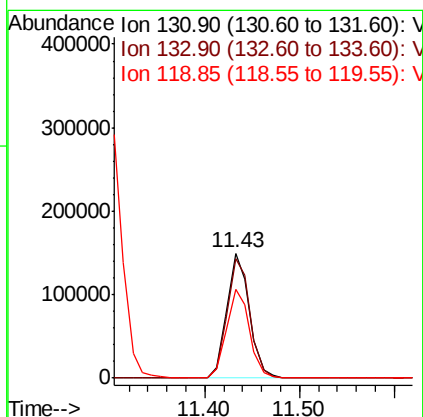
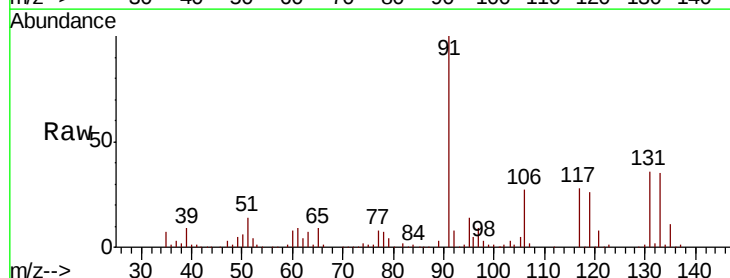
Instrument :
MSVOA_D
ClientSampleId :
VD1203SBS01

Tot Ion:112 Resp: 743252
Ion Ratio Lower Upper
112 100
114 32.5 25.8 38.8



#66
1,1,1,2-Tetrachloroethane
Concen: 23.164 ug/l
RT: 11.43 min Scan# 1007
Delta R.T. 0.01 min
Lab File: VD060468.D
Acq: 3 Dec 2018 11:44

Tgt Ion:131 Resp: 246617
Ion Ratio Lower Upper
131 100
133 95.9 50.0 150.0
119 71.6 37.0 111.1

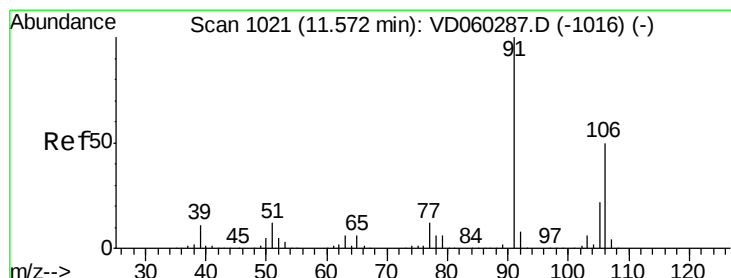
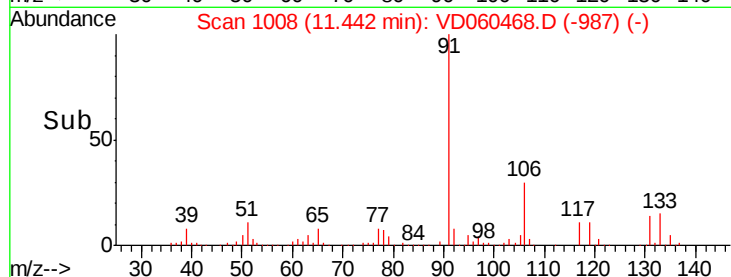
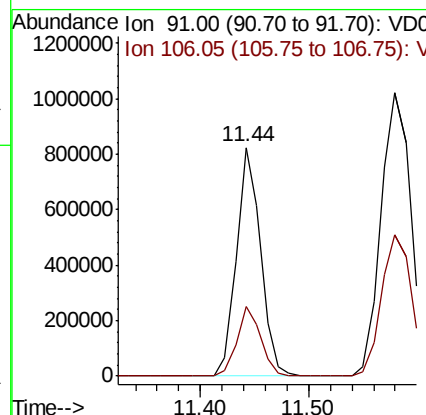
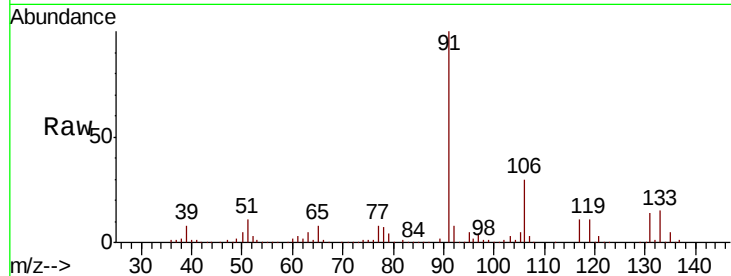




#67
Ethyl Benzene
Concen: 23.005 ug/l
RT: 11.44 min Scan# 1008
Delta R.T. 0.01 min
Lab File: VD060468.D
Acq: 3 Dec 2018 11:44

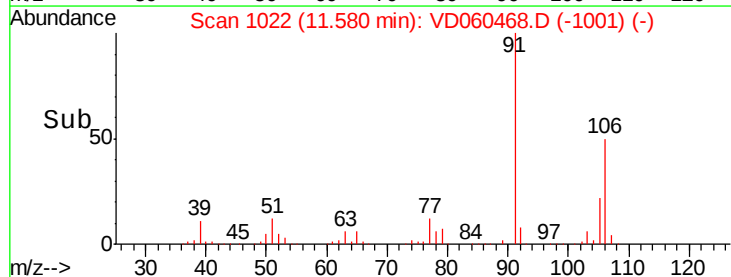
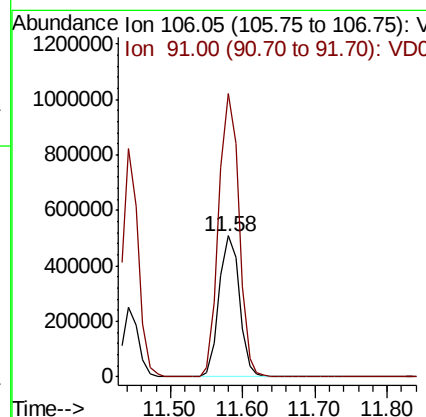
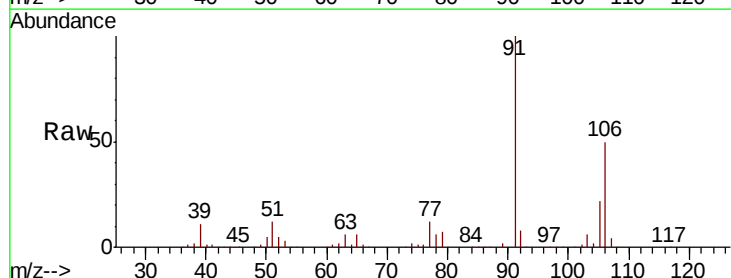
Instrument :
MSVOA_D
ClientSampleId :
VD1203SBS01

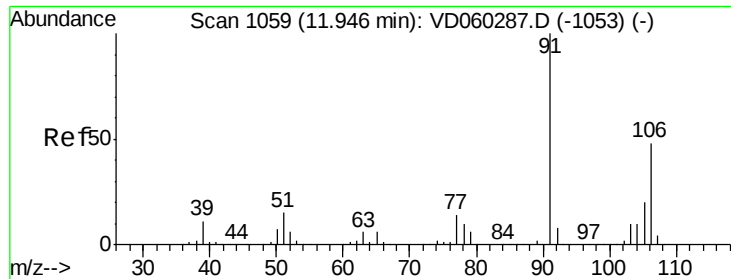
Tot Ion: 91 Resp: 1280528
Ion Ratio Lower Upper
91 100
106 30.5 24.6 36.8



#68
m/p-Xylenes
Concen: 48.139 ug/l
RT: 11.58 min Scan# 1022
Delta R.T. 0.01 min
Lab File: VD060468.D
Acq: 3 Dec 2018 11:44

Tgt Ion: 106 Resp: 988451
Ion Ratio Lower Upper
106 100
91 200.7 159.4 239.2

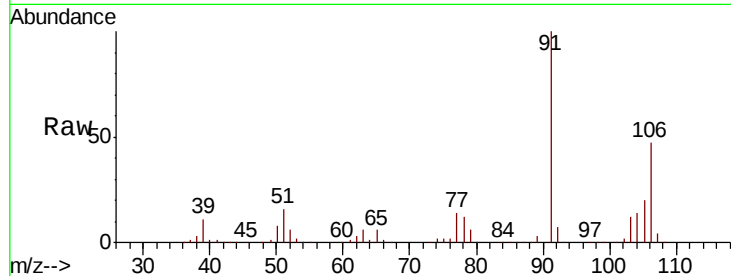




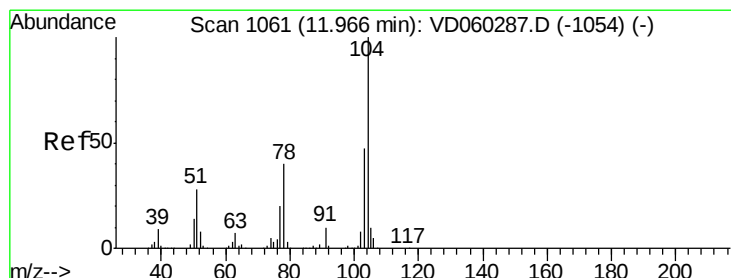
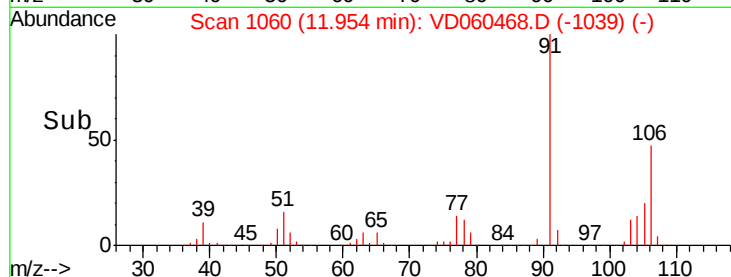
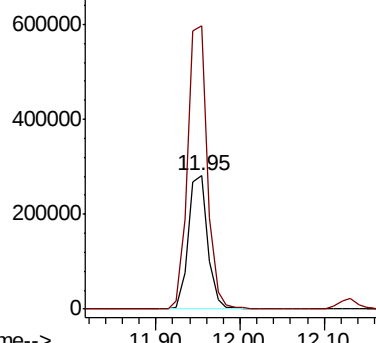
#69
o-Xylene
Concen: 22.733 ug/l
RT: 11.95 min Scan# 1060
Delta R.T. 0.01 min
Lab File: VD060468.D
Acq: 3 Dec 2018 11:44

Instrument :
MSVOA_D
ClientSampleId :
VD1203SBS01

Tot Ion:106 Resp: 450956
Ion Ratio Lower Upper
106 100
91 212.2 109.2 327.6

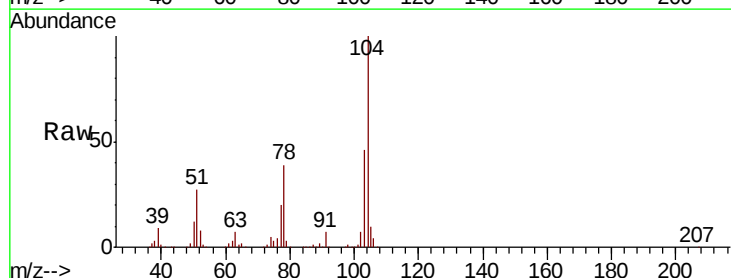


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

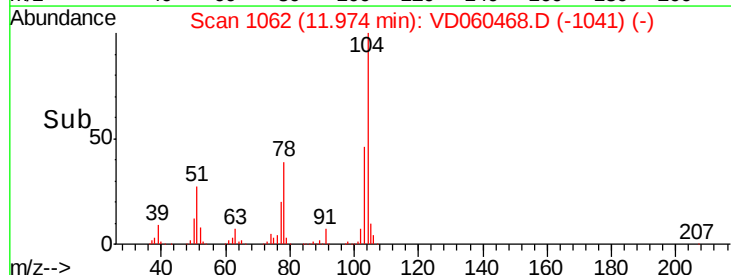
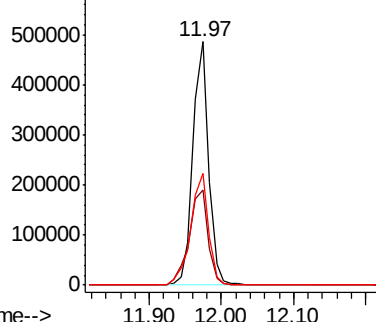


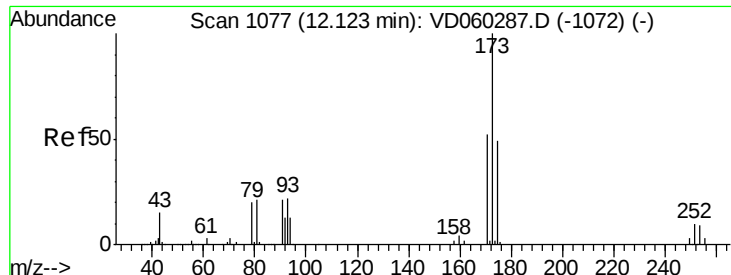
#70
Styrene
Concen: 22.634 ug/l
RT: 11.97 min Scan# 1062
Delta R.T. 0.01 min
Lab File: VD060468.D
Acq: 3 Dec 2018 11:44

Tgt Ion:104 Resp: 725618
Ion Ratio Lower Upper
104 100
78 39.1 31.6 47.4
103 46.1 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

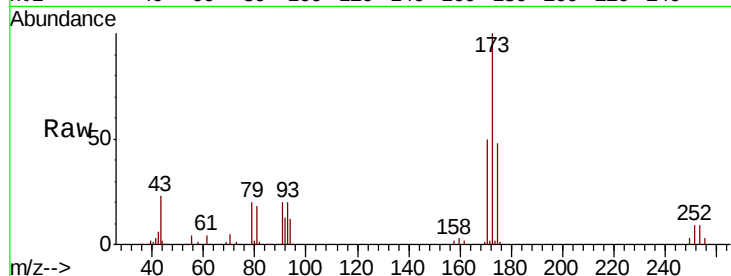




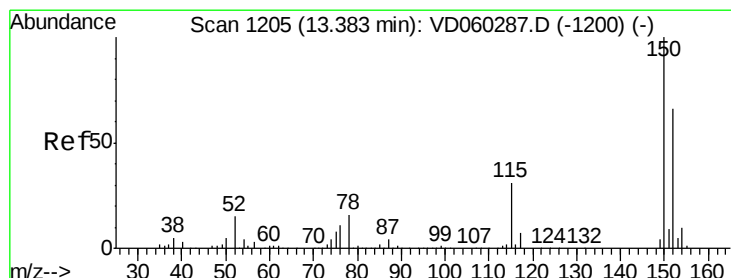
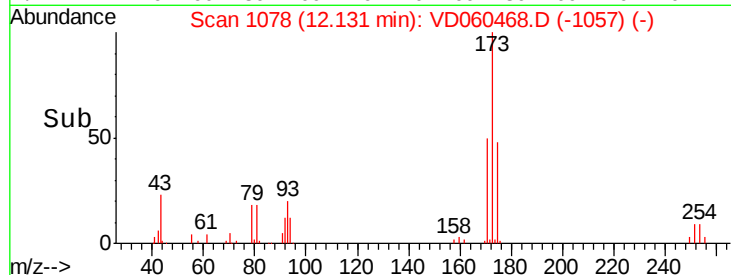
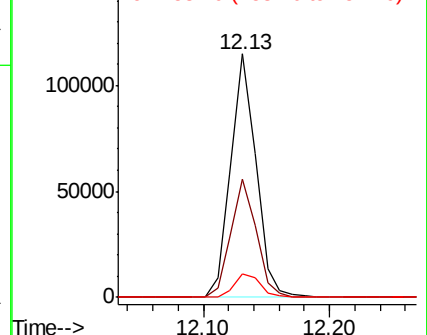
#71
Bromoform
Concen: 22.225 ug/l
RT: 12.13 min Scan# 1078
Delta R.T. 0.01 min
Lab File: VD060468.D
Acq: 3 Dec 2018 11:44

Instrument :
MSVOA_D
ClientSampleId :
VD1203SBS01

Tot Ion:173 Resp: 159001
Ion Ratio Lower Upper
173 100
175 48.5 24.3 73.0
254 9.5 8.3 12.5

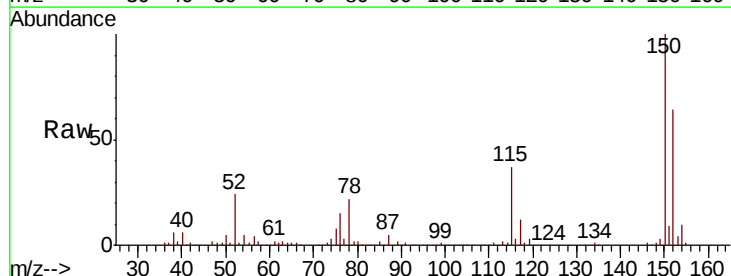


Abundance Ion 172.80 (172.50 to 173.50): V
Ion 174.80 (174.50 to 175.50): V
Ion 253.70 (253.40 to 254.40): V

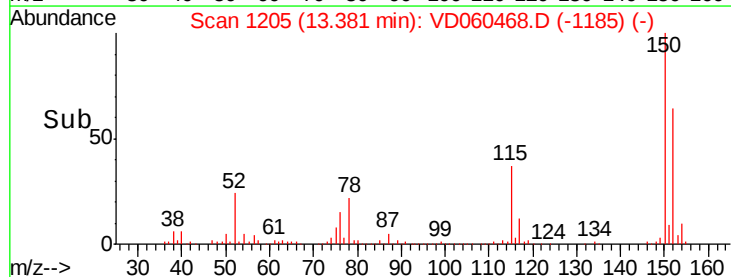
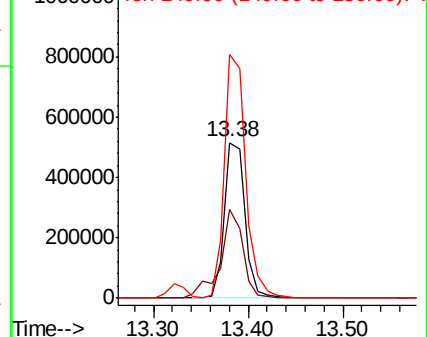


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.38 min Scan# 1205
Delta R.T. -0.00 min
Lab File: VD060468.D
Acq: 3 Dec 2018 11:44

Tgt Ion:152 Resp: 774607
Ion Ratio Lower Upper
152 100
115 57.1 24.1 72.3
150 156.2 0.0 310.6



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: 22.866 ug/l

RT: 12.29 min Scan# 1094

Delta R.T. 0.01 min

Lab File: VD060468.D

Acq: 3 Dec 2018 11:44

Instrument :

MSVOA_D

ClientSampleId :

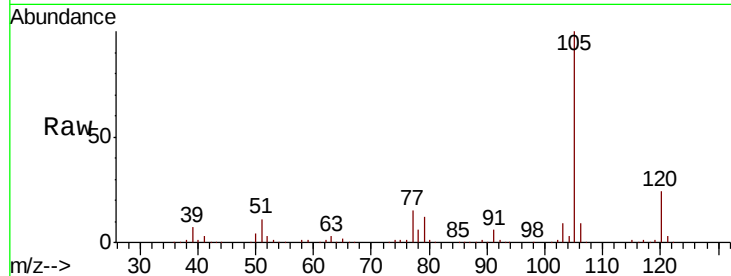
VD1203SBS01

Tot Ion:105 Resp: 1290467

Ion Ratio Lower Upper

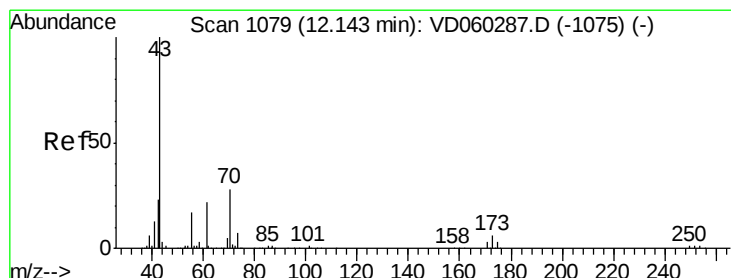
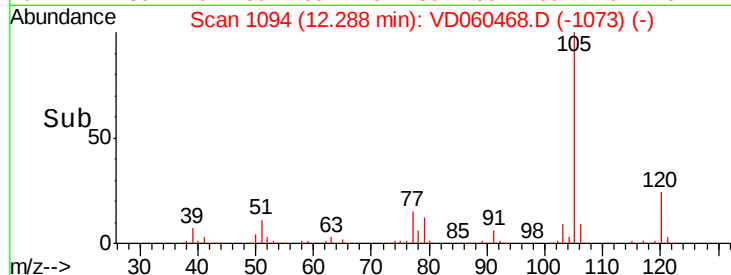
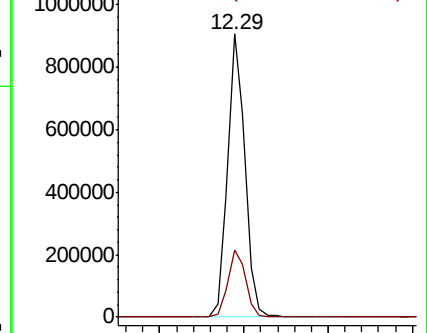
105 100

120 23.8 12.1 36.3



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 20.884 ug/l

RT: 12.15 min Scan# 1080

Delta R.T. 0.01 min

Lab File: VD060468.D

Acq: 3 Dec 2018 11:44

Tgt Ion: 43 Resp: 302163

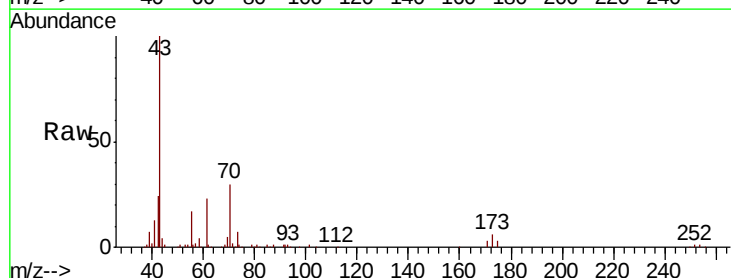
Ion Ratio Lower Upper

43 100

70 29.6 23.0 34.4

55 17.5 14.2 21.4

61 22.6 17.8 26.8

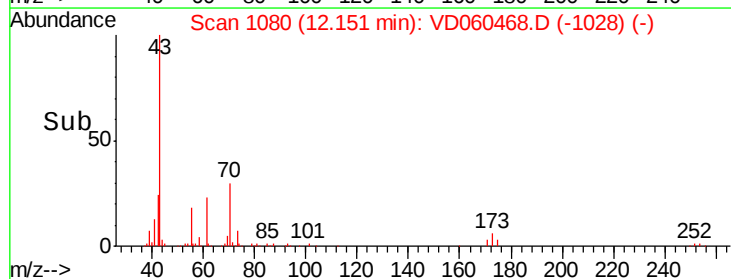
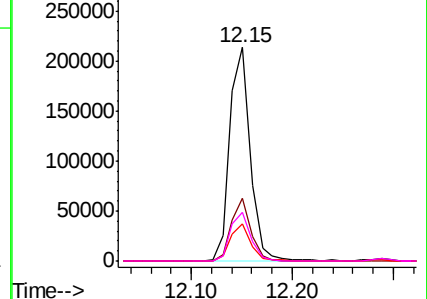


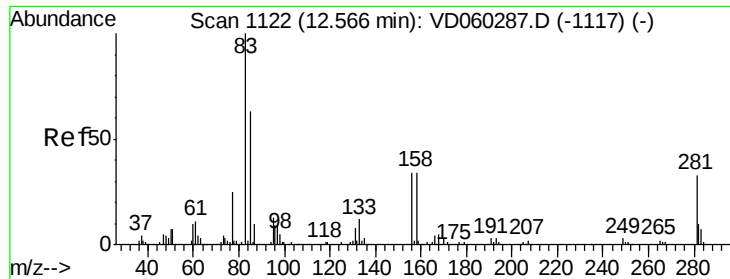
Abundance Ion 42.95 (42.65 to 43.65): VDC

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





#75

1,1,2,2-Tetrachloroethane

Concen: 21.509 ug/l

RT: 12.57 min Scan# 1123

Delta R.T. 0.01 min

Lab File: VD060468.D

Acq: 3 Dec 2018 11:44

Instrument :

MSVOA_D

ClientSampleId :

VD1203SBS01

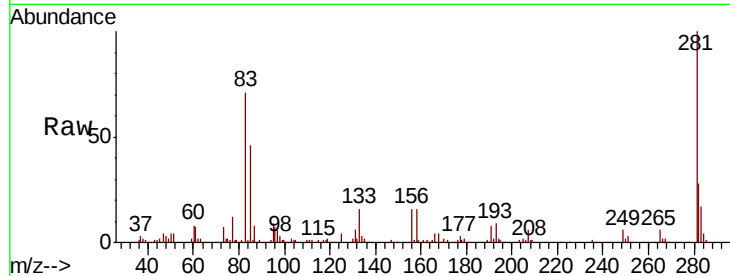
Tot Ion: 83 Resp: 198520

Ion Ratio Lower Upper

83 100

131 8.1 3.9 11.5

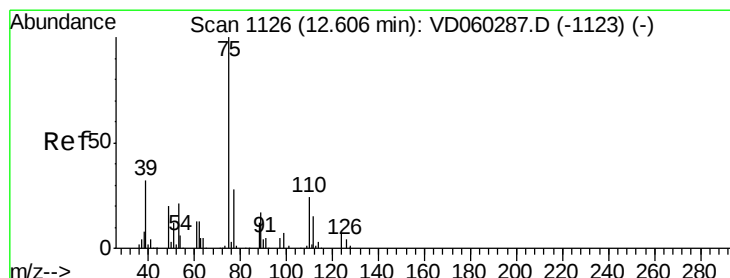
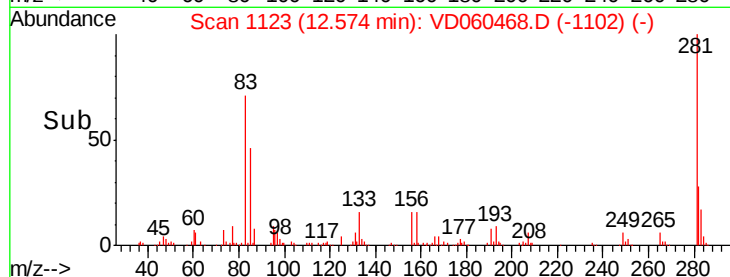
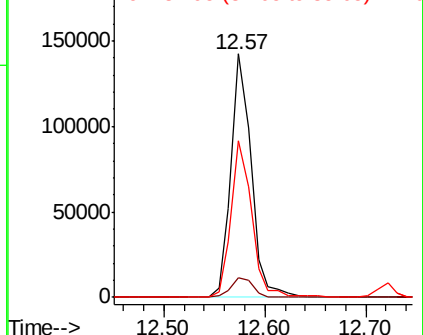
85 64.4 32.0 96.0



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 21.417 ug/l

RT: 12.61 min Scan# 1127

Delta R.T. 0.01 min

Lab File: VD060468.D

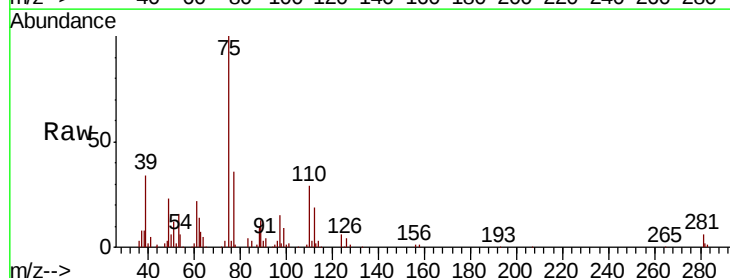
Acq: 3 Dec 2018 11:44

Tgt Ion: 75 Resp: 198455

Ion Ratio Lower Upper

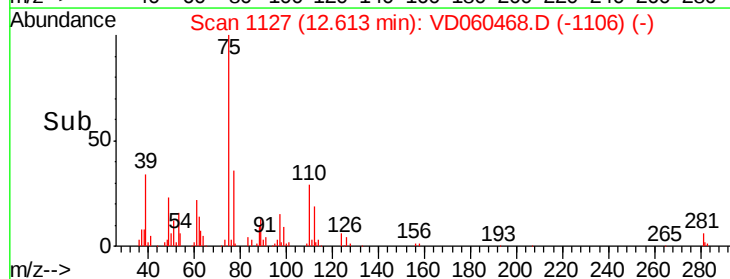
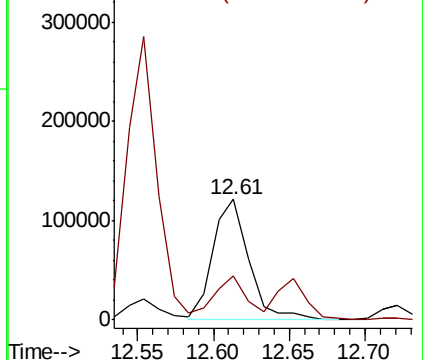
75 100

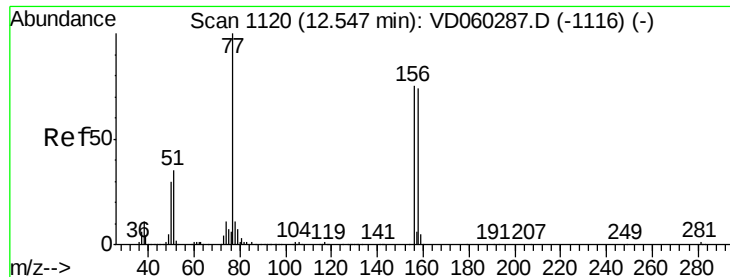
77 36.0 16.4 49.1



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 21.493 ug/l

RT: 12.55 min Scan# 1121

Delta R.T. 0.01 min

Lab File: VD060468.D

Acq: 3 Dec 2018 11:44

Instrument :

MSVOA_D

ClientSampleId :

VD1203SBS01

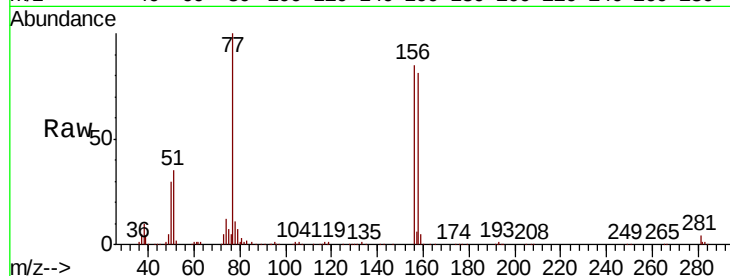
Tot Ion:156 Resp: 322202

Ion Ratio Lower Upper

156 100

77 118.0 61.2 183.6

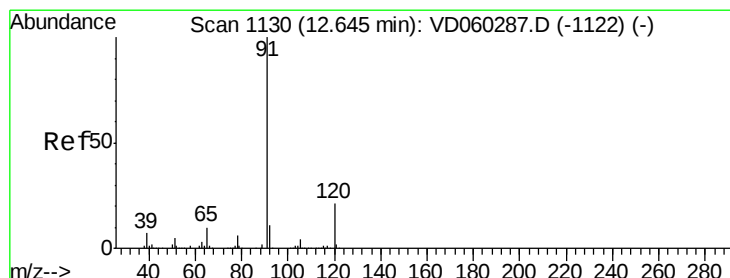
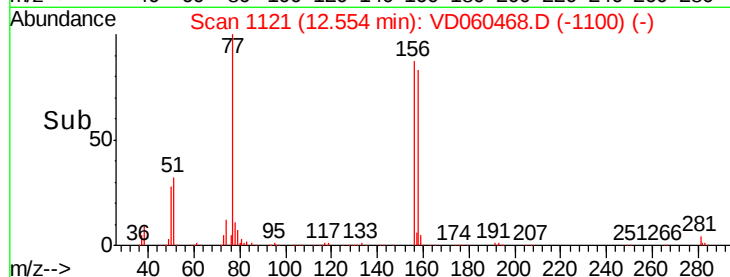
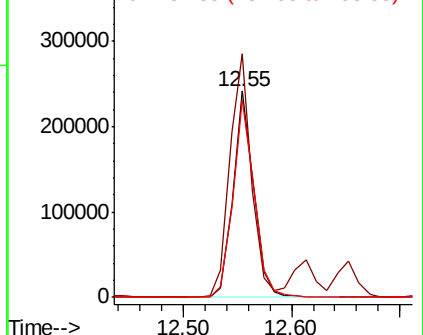
158 95.6 49.2 147.6



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 22.898 ug/l

RT: 12.65 min Scan# 1131

Delta R.T. 0.01 min

Lab File: VD060468.D

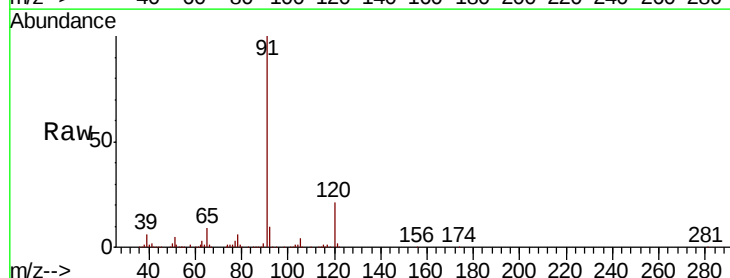
Acq: 3 Dec 2018 11:44

Tgt Ion: 91 Resp: 1613008

Ion Ratio Lower Upper

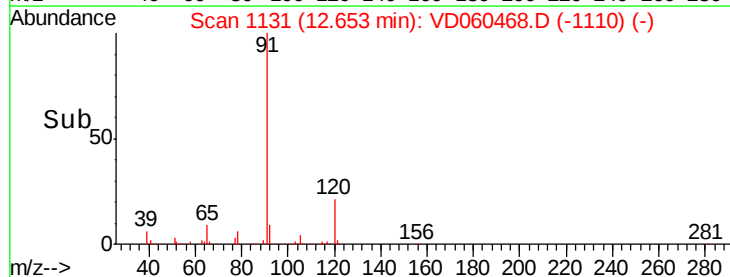
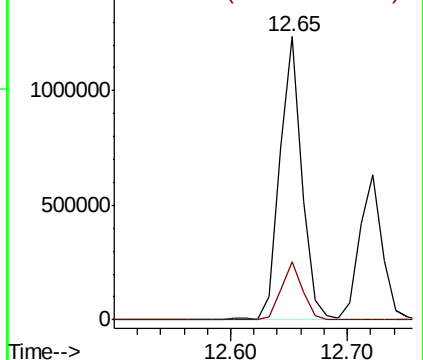
91 100

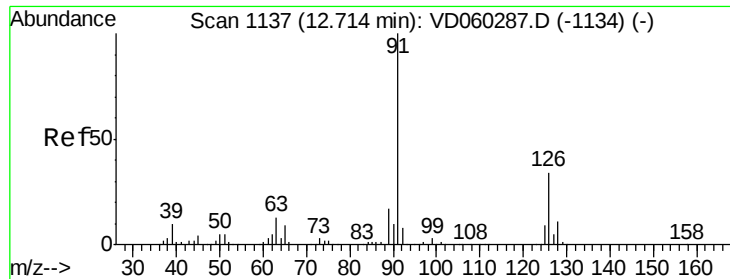
120 20.7 10.4 31.4



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 22.065 ug/l

RT: 12.72 min Scan# 1138

Delta R.T. 0.01 min

Lab File: VD060468.D

Acq: 3 Dec 2018 11:44

Instrument :

MSVOA_D

ClientSampleId :

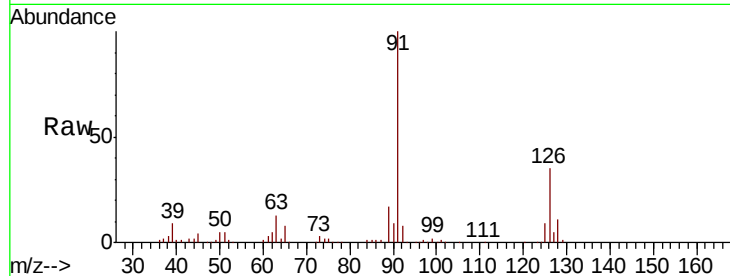
VD1203SBS01

Tot Ion: 91 Resp: 851292

Ion Ratio Lower Upper

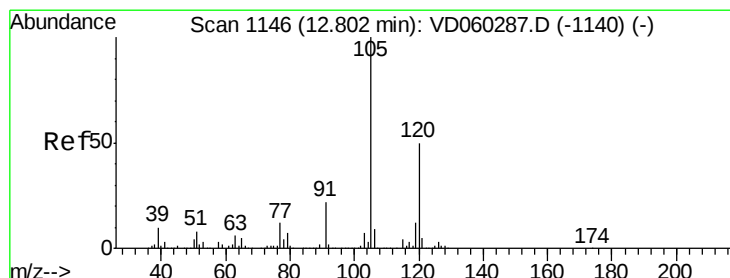
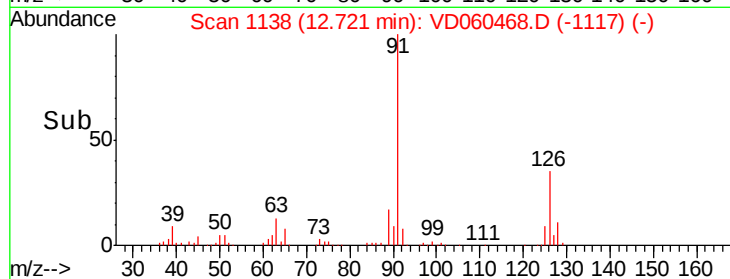
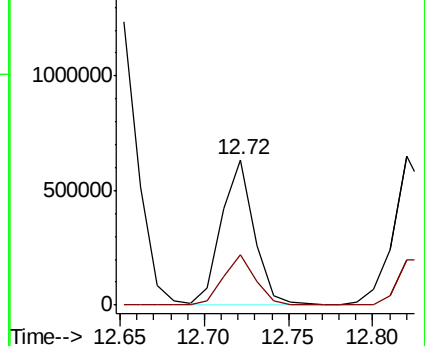
91 100

126 34.7 17.4 52.2



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#80

1,3,5-Trimethylbenzene

Concen: 22.940 ug/l

RT: 12.81 min Scan# 1147

Delta R.T. 0.01 min

Lab File: VD060468.D

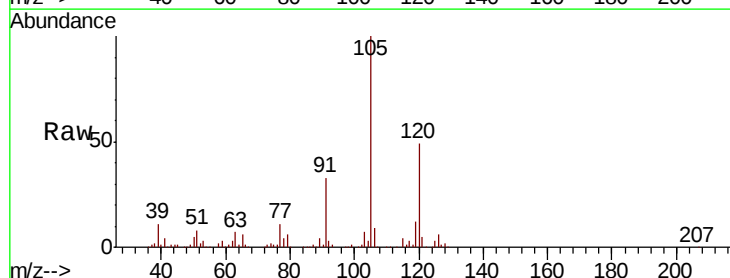
Acq: 3 Dec 2018 11:44

Tgt Ion:105 Resp: 1006137

Ion Ratio Lower Upper

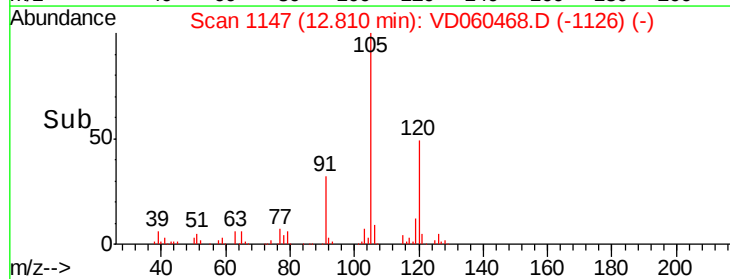
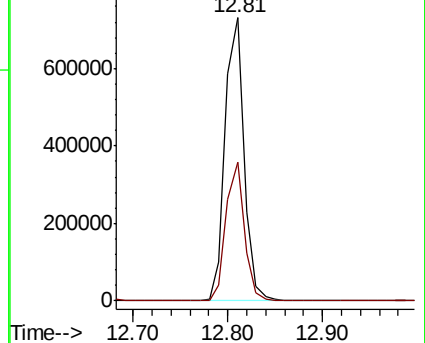
105 100

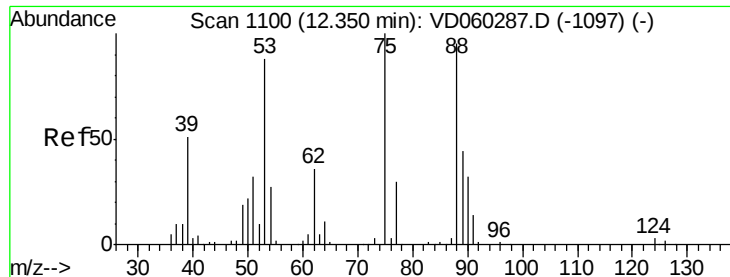
120 49.1 24.4 73.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#81

trans-1,4-Dichloro-2-butene

Concen: 20.380 ug/l

RT: 12.36 min Scan# 1101

Delta R.T. 0.01 min

Lab File: VD060468.D

Acq: 3 Dec 2018 11:44

Instrument :

MSVOA_D

ClientSampleId :

VD1203SBS01

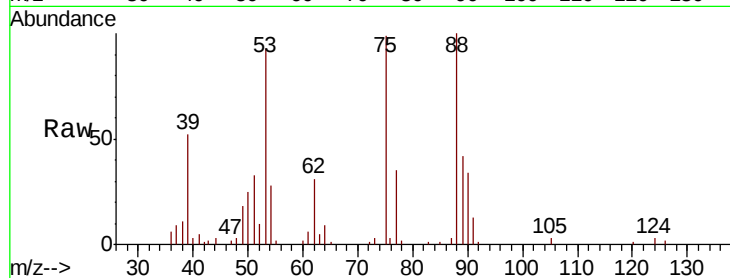
Tot Ion: 75 Resp: 53763

Ion Ratio Lower Upper

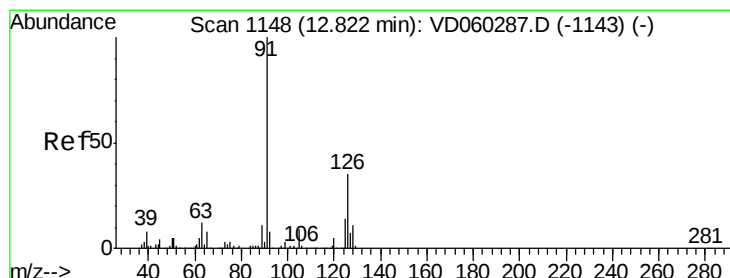
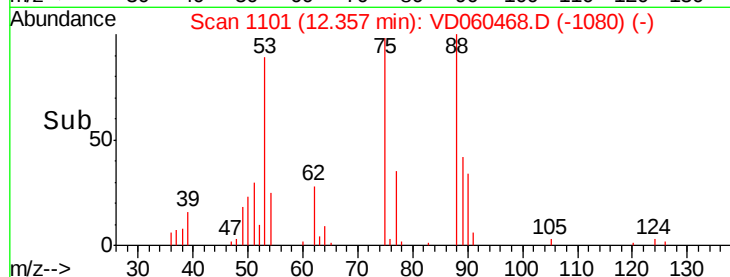
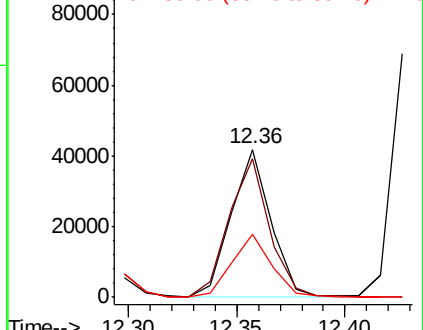
75 100

53 93.9 68.6 103.0

89 42.9 34.1 51.1



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC



#82

4-Chlorotoluene

Concen: 22.505 ug/l

RT: 12.82 min Scan# 1148

Delta R.T. -0.00 min

Lab File: VD060468.D

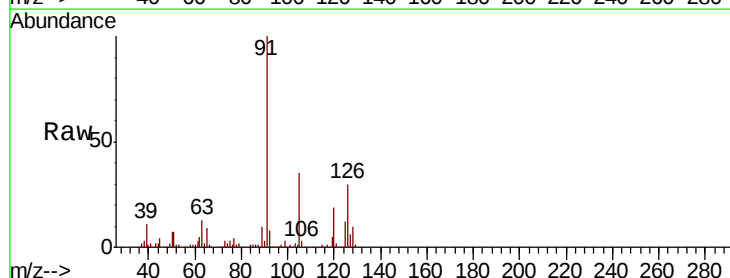
Acq: 3 Dec 2018 11:44

Tgt Ion: 91 Resp: 975358

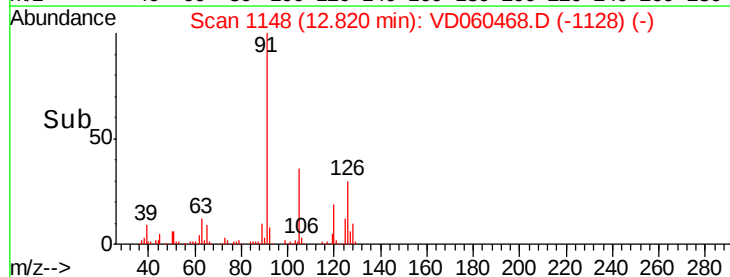
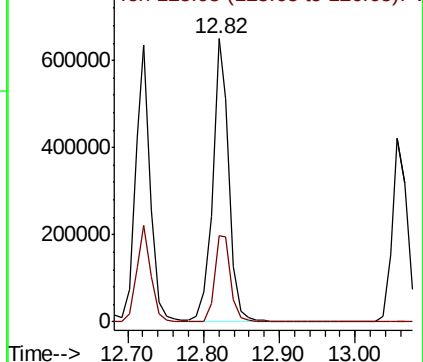
Ion Ratio Lower Upper

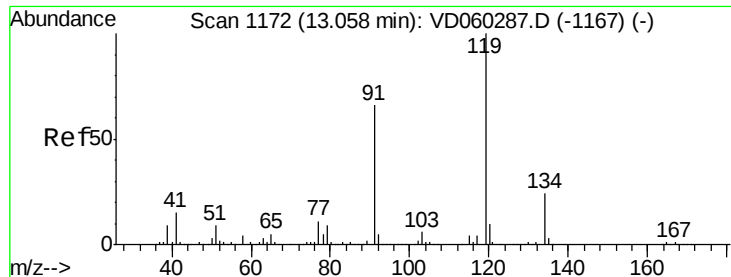
91 100

126 30.3 14.8 44.4



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

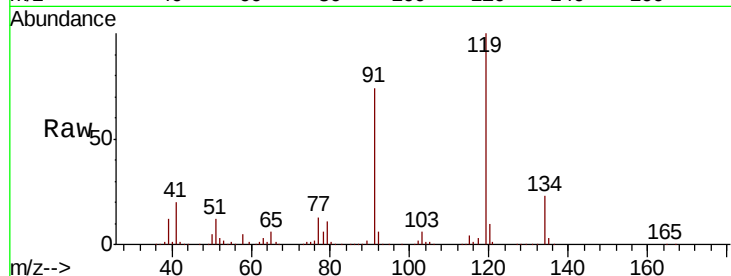




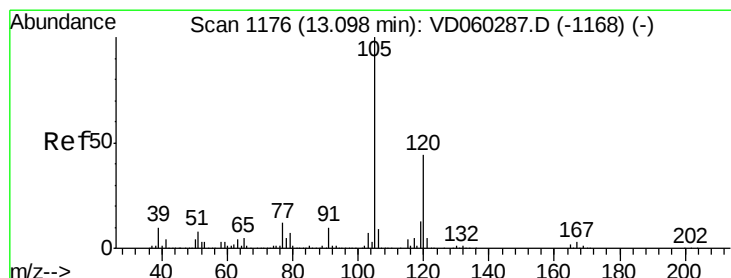
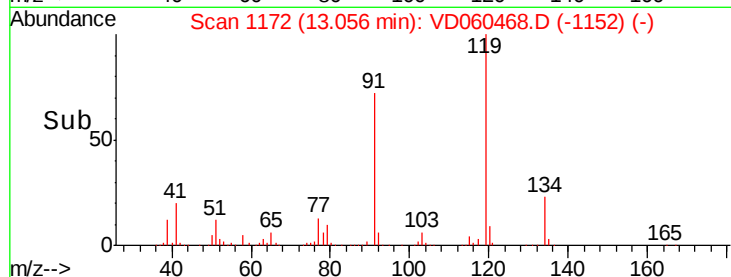
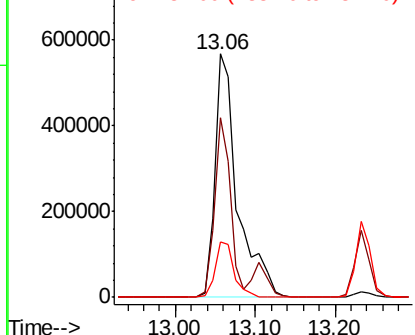
#83
tert-Butylbenzene
Concen: 23.217 ug/l
RT: 13.06 min Scan# 1172
Delta R.T. -0.00 min
Lab File: VD060468.D
Acq: 3 Dec 2018 11:44

Instrument :
MSVOA_D
ClientSampleId :
VD1203SBS01

Tot Ion:119 Resp: 1130532
Ion Ratio Lower Upper
119 100
91 74.0 32.7 98.1
134 23.0 12.1 36.3

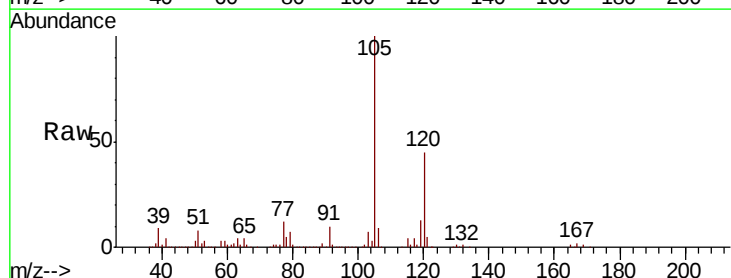


Abundance Ion 119.05 (118.75 to 119.75): V
Ion 91.00 (90.70 to 91.70): VD
Ion 134.00 (133.70 to 134.70): V

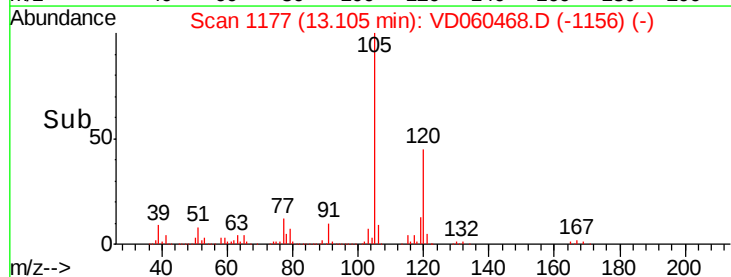
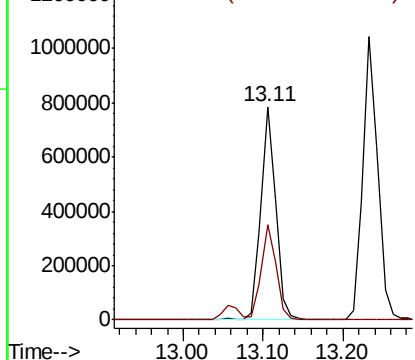


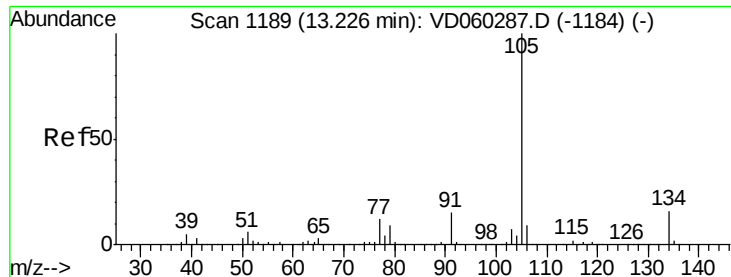
#84
1,2,4-Trimethylbenzene
Concen: 22.840 ug/l
RT: 13.11 min Scan# 1177
Delta R.T. 0.01 min
Lab File: VD060468.D
Acq: 3 Dec 2018 11:44

Tgt Ion:105 Resp: 1000458
Ion Ratio Lower Upper
105 100
120 44.9 21.9 65.8



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





#85

sec-Butylbenzene

Concen: 22.614 ug/l

RT: 13.23 min Scan# 1190

Delta R.T. 0.01 min

Lab File: VD060468.D

Acq: 3 Dec 2018 11:44

Instrument :

MSVOA_D

ClientSampleId :

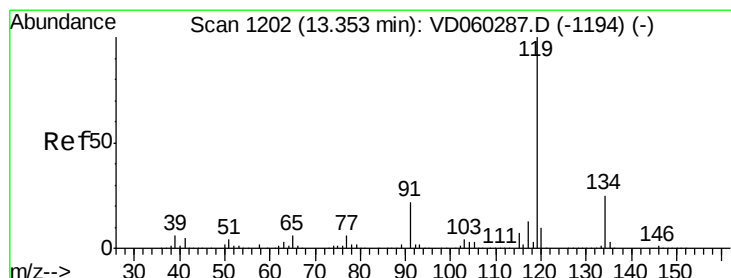
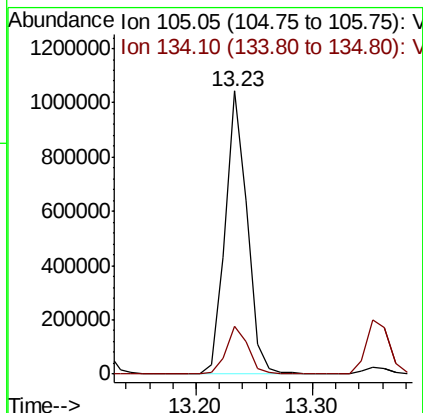
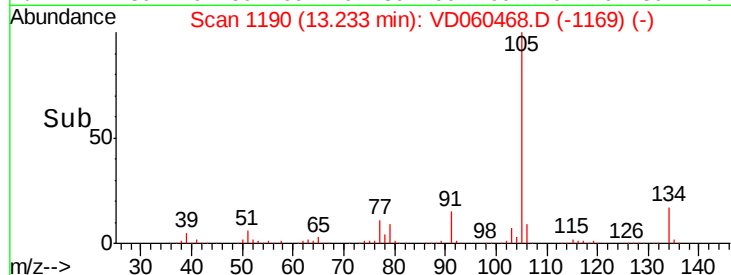
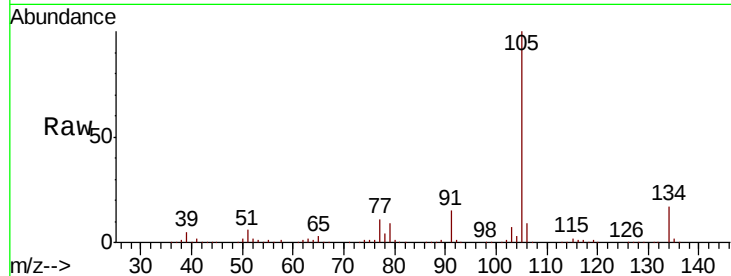
VD1203SBS01

Tot Ion:105 Resp: 1350972

Ion Ratio Lower Upper

105 100

134 17.0 8.0 24.0



#86

p-Isopropyltoluene

Concen: 23.185 ug/l

RT: 13.35 min Scan# 1202

Delta R.T. -0.00 min

Lab File: VD060468.D

Acq: 3 Dec 2018 11:44

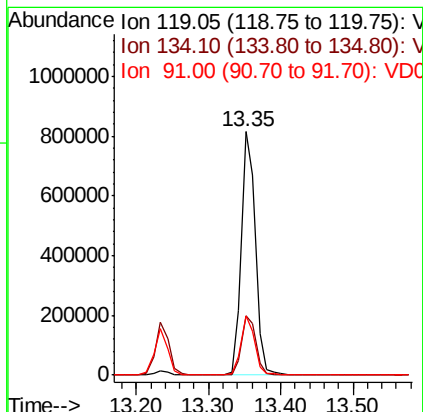
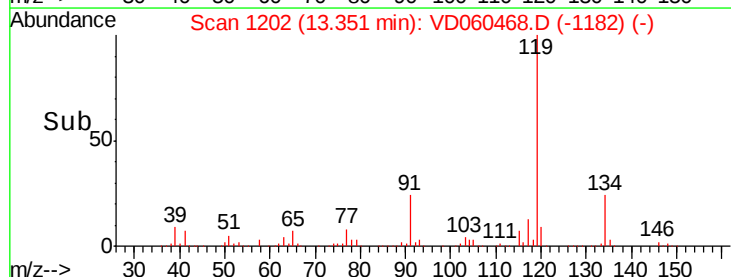
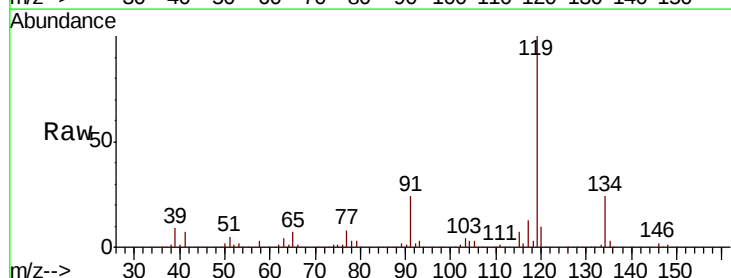
Tgt Ion:119 Resp: 1115418

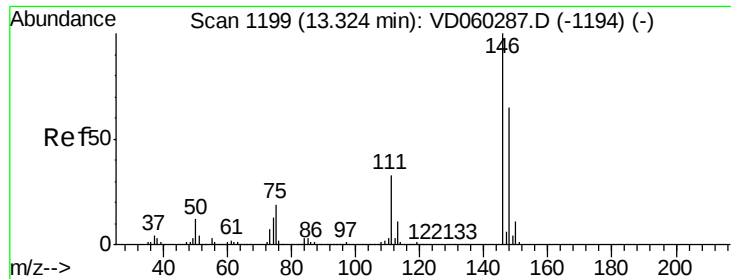
Ion Ratio Lower Upper

119 100

134 24.3 12.9 38.6

91 24.1 11.3 33.8

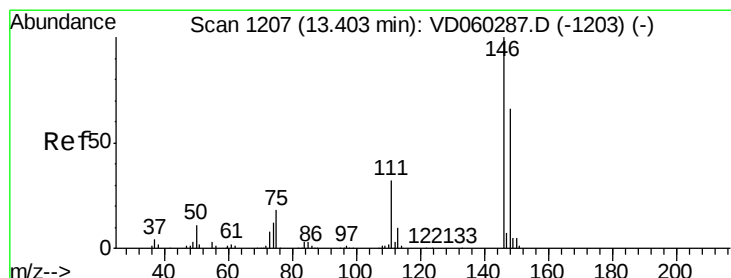
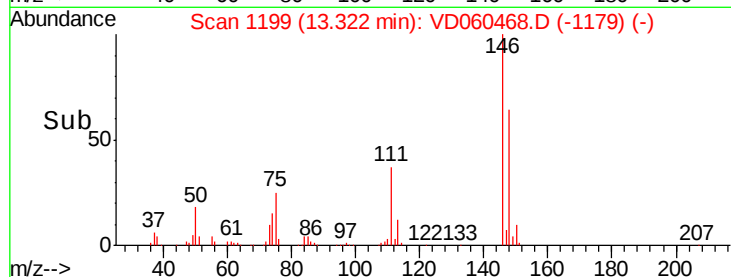
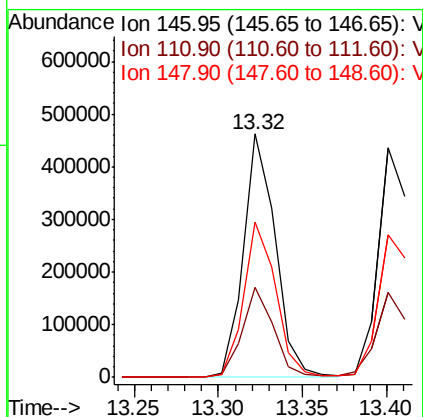
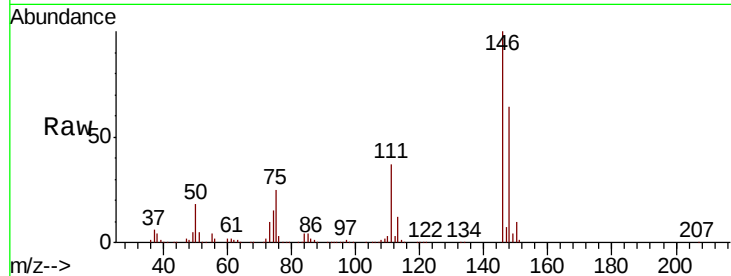




#87
 1,3-Dichlorobenzene
 Concen: 22.809 ug/l
 RT: 13.32 min Scan# 1199
 Delta R.T. -0.00 min
 Lab File: VD060468.D
 Acq: 3 Dec 2018 11:44

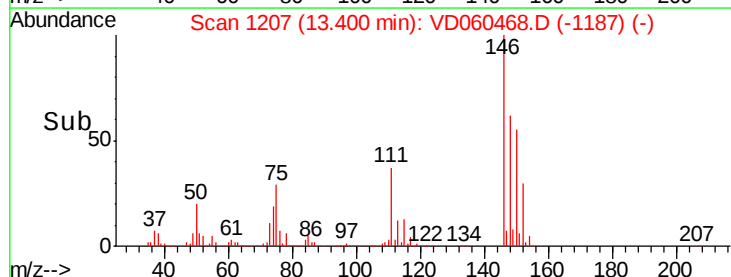
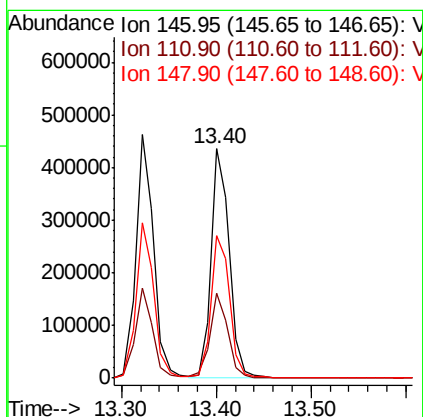
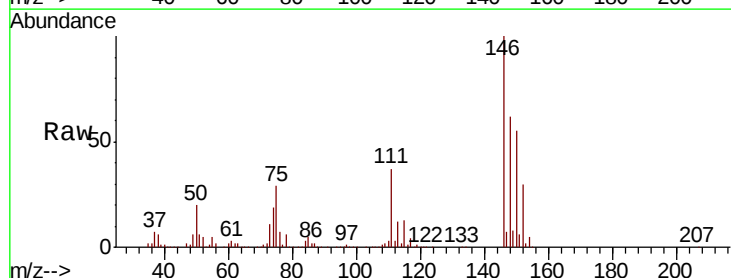
Instrument :
 MSVOA_D
 ClientSampleId :
 VD1203SBS01

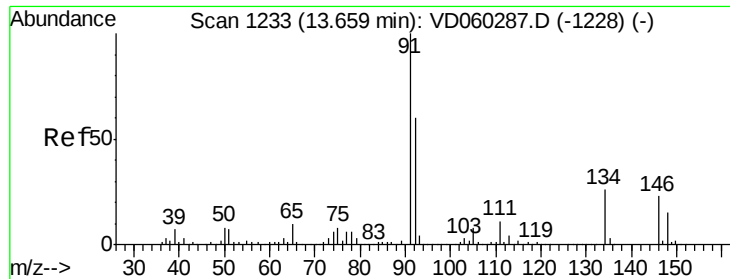
Tot Ion	Ratio	Lower	Upper
146	100		
111	37.2	20.2	60.5
148	63.6	32.0	96.0



#88
 1,4-Dichlorobenzene
 Concen: 22.417 ug/l
 RT: 13.40 min Scan# 1207
 Delta R.T. -0.00 min
 Lab File: VD060468.D
 Acq: 3 Dec 2018 11:44

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.2	16.0	47.9
148	62.2	32.9	98.7

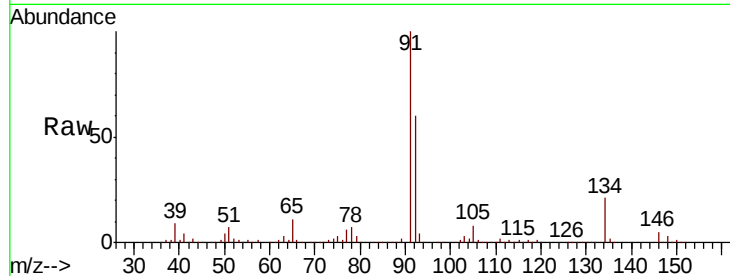




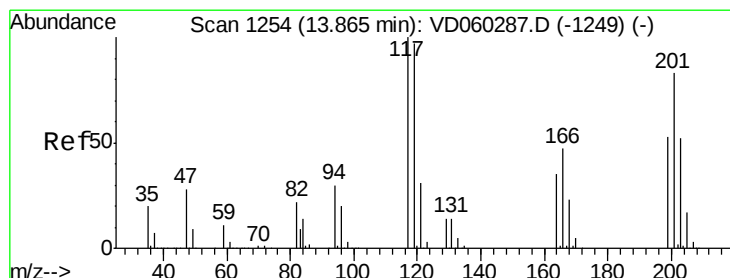
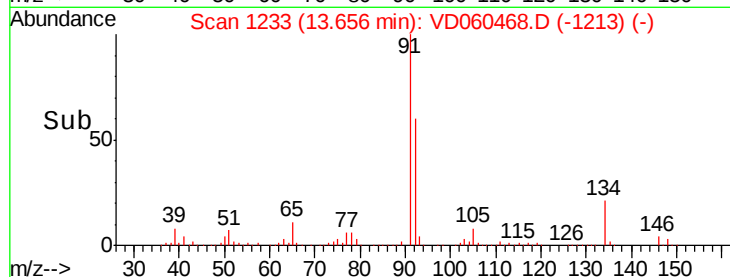
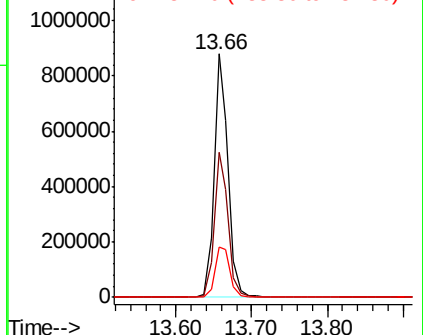
#89
n-Butylbenzene
Concen: 21.604 ug/l
RT: 13.66 min Scan# 1233
Delta R.T. -0.00 min
Lab File: VD060468.D
Acq: 3 Dec 2018 11:44

Instrument :
MSVOA_D
ClientSampleId :
VD1203SBS01

Tot Ion: 91 Resp: 1133574
Ion Ratio Lower Upper
91 100
92 59.5 30.3 90.9
134 20.8 13.0 38.9

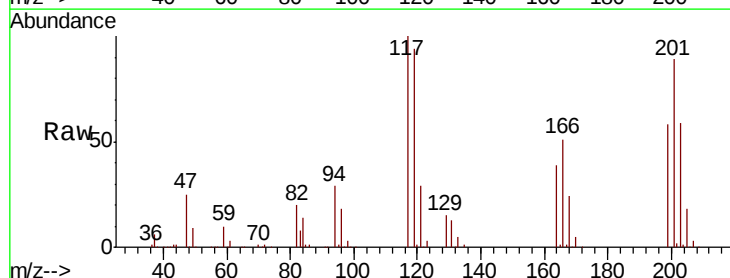


Abundance Ion 91.00 (90.70 to 91.70): V
Ion 92.00 (91.70 to 92.70): V
Ion 134.10 (133.80 to 134.80): V

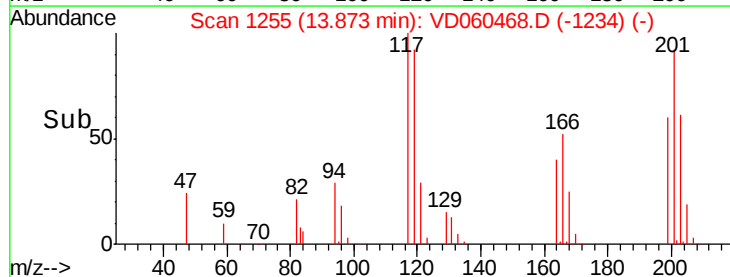
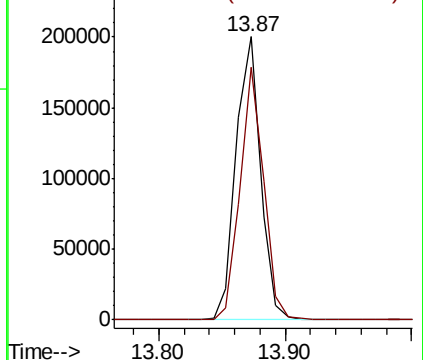


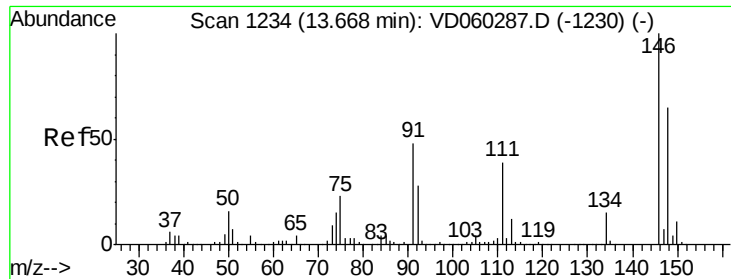
#90
Hexachloroethane
Concen: 23.443 ug/l
RT: 13.87 min Scan# 1255
Delta R.T. 0.01 min
Lab File: VD060468.D
Acq: 3 Dec 2018 11:44

Tgt Ion: 117 Resp: 267433
Ion Ratio Lower Upper
117 100
201 89.3 40.1 120.3



Abundance Ion 116.85 (116.55 to 117.55): V
Ion 200.75 (200.45 to 201.45): V

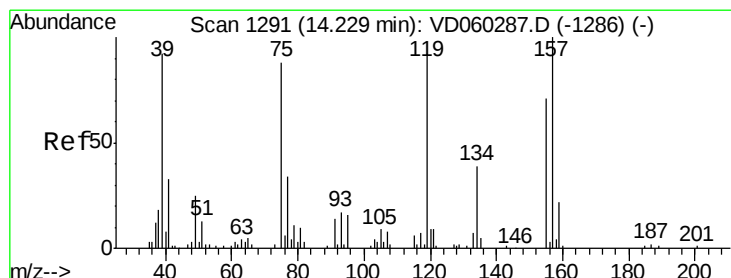
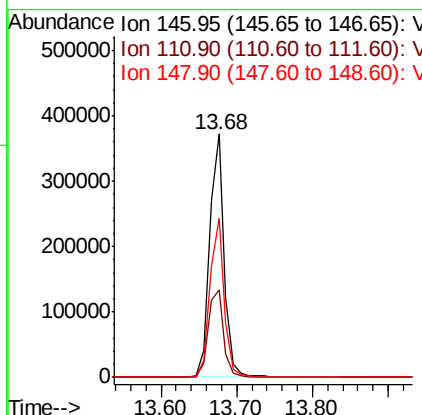
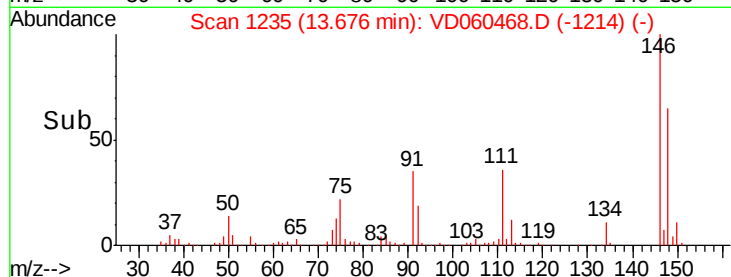
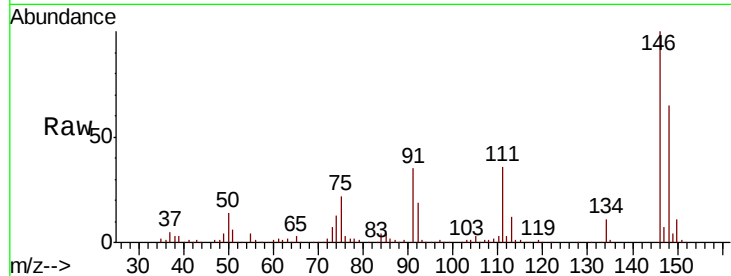




#91
 1,2-Dichlorobenzene
 Concen: 22.892 ug/l
 RT: 13.68 min Scan# 1235
 Delta R.T. 0.01 min
 Lab File: VD060468.D
 Acq: 3 Dec 2018 11:44

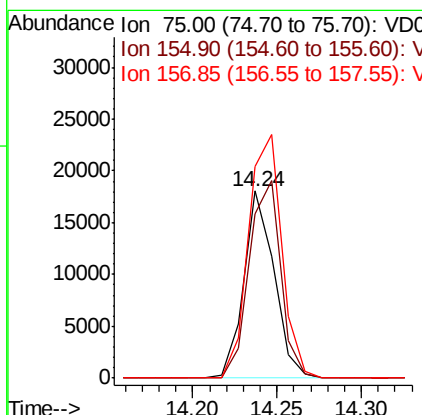
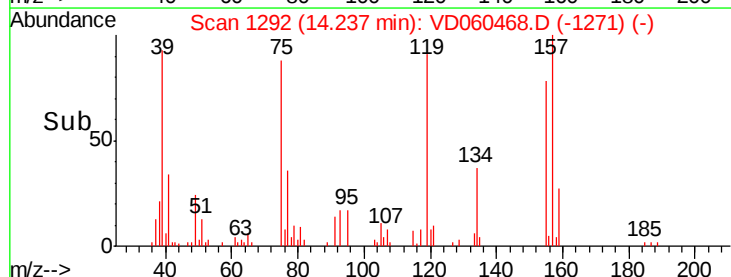
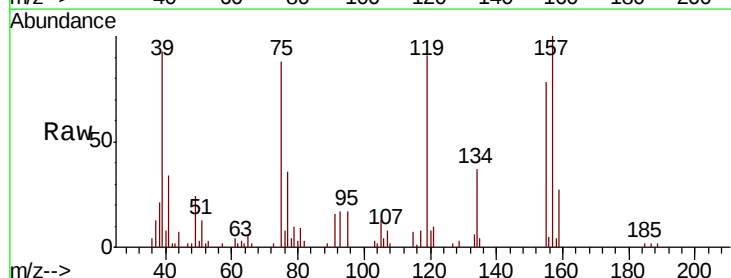
Instrument :
 MSVOA_D
 ClientSampleId :
 VD1203SBS01

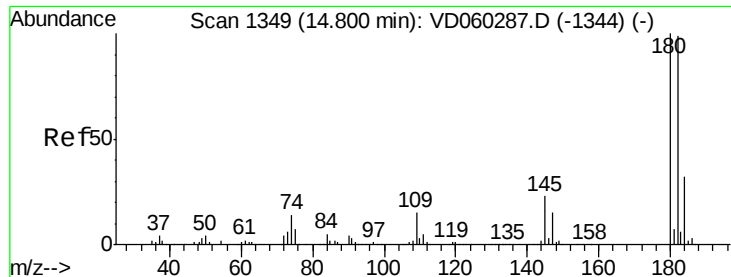
Tot Ion:146 Resp: 501481
 Ion Ratio Lower Upper
 146 100
 111 35.8 18.9 56.9
 148 65.5 31.6 94.8



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.178 ug/l
 RT: 14.24 min Scan# 1292
 Delta R.T. 0.01 min
 Lab File: VD060468.D
 Acq: 3 Dec 2018 11:44

Tgt Ion: 75 Resp: 22481
 Ion Ratio Lower Upper
 75 100
 155 88.1 64.3 192.9
 157 113.3 81.0 243.1

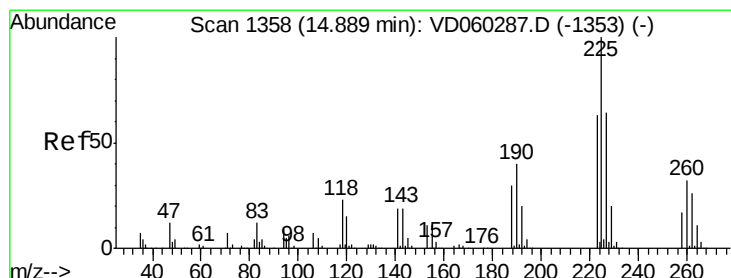
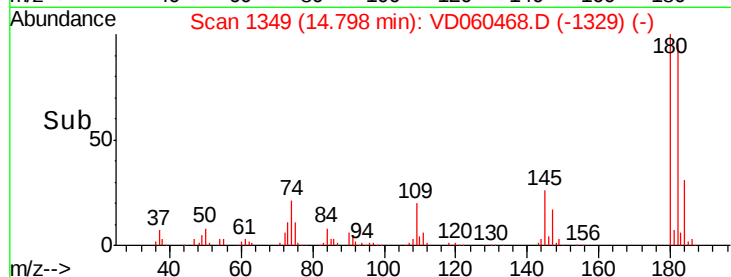
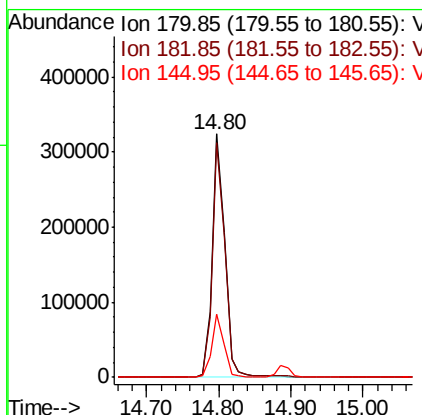
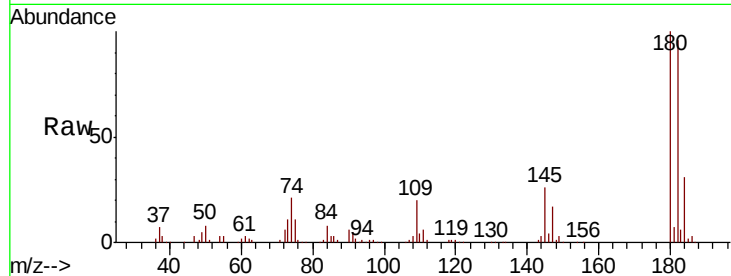




#93
 1,2,4-Trichlorobenzene
 Concen: 22.567 ug/l
 RT: 14.80 min Scan# 1349
 Delta R.T. -0.00 min
 Lab File: VD060468.D
 Acq: 3 Dec 2018 11:44

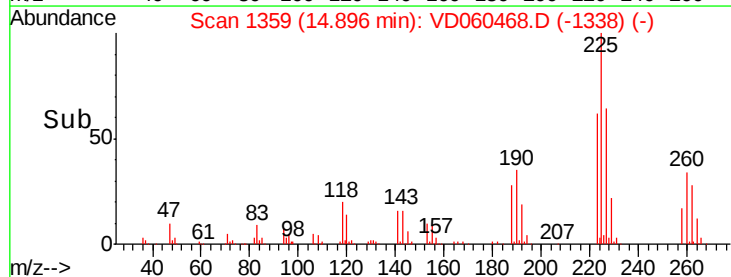
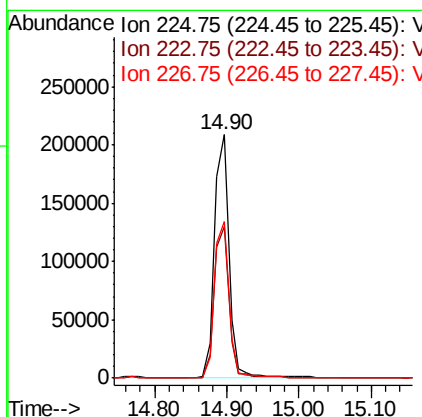
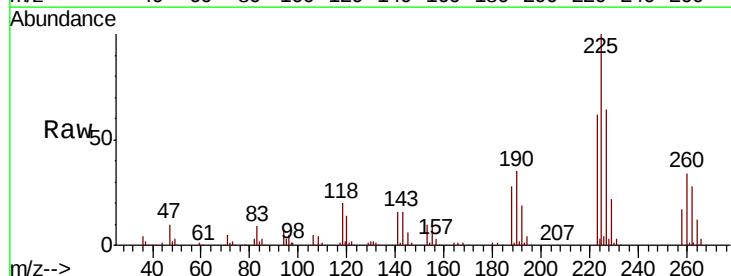
Instrument :
 MSVOA_D
 ClientSampleId :
 VD1203SBS01

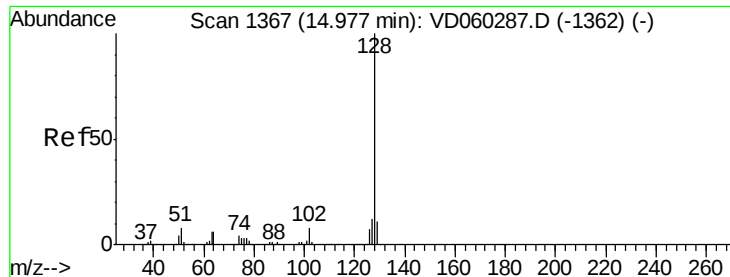
Tot Ion:180 Resp: 391972
 Ion Ratio Lower Upper
 180 100
 182 96.4 48.1 144.4
 145 26.0 11.5 34.4



#94
 Hexachlorobutadiene
 Concen: 22.361 ug/l
 RT: 14.90 min Scan# 1359
 Delta R.T. 0.01 min
 Lab File: VD060468.D
 Acq: 3 Dec 2018 11:44

Tgt Ion:225 Resp: 290502
 Ion Ratio Lower Upper
 225 100
 223 62.0 31.6 94.8
 227 64.4 32.3 96.9





#95

Naphthalene

Concen: 21.535 ug/l

RT: 14.98 min Scan# 1367

Delta R.T. -0.00 min

Lab File: VD060468.D

Acq: 3 Dec 2018 11:44

Instrument :

MSVOA_D

ClientSampleId :

VD1203SBS01

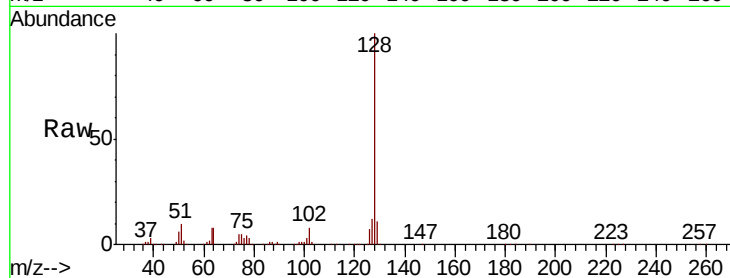
Tot Ion:128 Resp: 456743

Ion Ratio Lower Upper

128 100

127 12.0 9.6 14.4

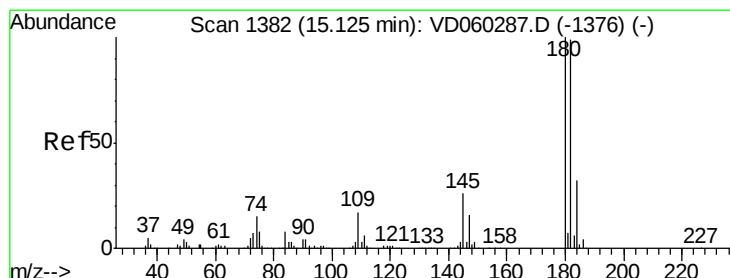
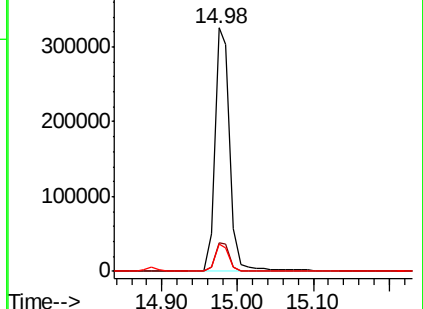
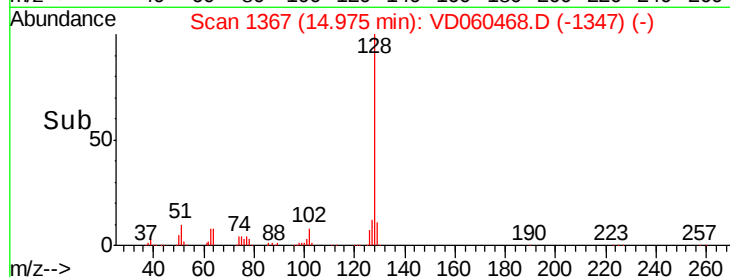
129 11.0 8.6 12.8



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: 20.945 ug/l

RT: 15.12 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VD060468.D

Acq: 3 Dec 2018 11:44

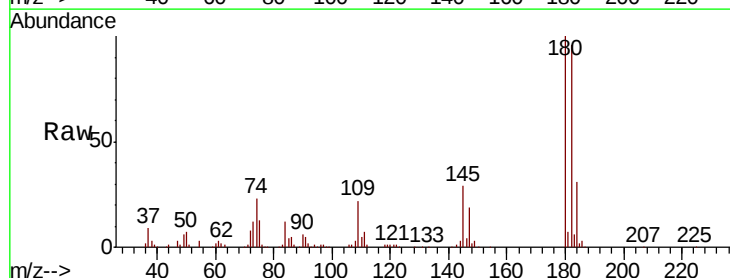
Tgt Ion:180 Resp: 291519

Ion Ratio Lower Upper

180 100

182 95.9 48.9 146.7

145 29.3 12.9 38.6



Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

