

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071619\
 Data File : VD063102.D
 Acq On : 16 Jul 2019 13:16
 Operator : VA/AP
 Sample : VD0716SBS02
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0716SBS02

Quant Time: Jul 17 07:34:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 08:11:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	724518	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	1000144	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	823643	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	452084	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	456070	50.53	ug/l	0.00
Spiked Amount			Recovery	=	101.06%	
35) Dibromofluoromethane	6.92	113	484723	48.66	ug/l	0.00
Spiked Amount			Recovery	=	97.32%	
50) Toluene-d8	10.39	98	998997	46.69	ug/l	0.00
Spiked Amount			Recovery	=	93.38%	
62) 4-Bromofluorobenzene	13.55	95	462941	46.76	ug/l	0.00
Spiked Amount			Recovery	=	93.52%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.56	85	185376	22.351	ug/l	93
3) Chloromethane	1.74	50	151301	21.110	ug/l	90
4) Vinyl Chloride	1.84	62	151783	19.629	ug/l	98
5) Bromomethane	2.14	94	60551	18.472	ug/l	91
6) Chloroethane	2.25	64	67950	18.917	ug/l	95
7) Trichlorofluoromethane	2.52	101	309630	19.780	ug/l	98
8) Diethyl Ether	2.86	74	45272	20.560	ug/l	80
9) 1,1,2-Trichlorotrifluoroet	3.13	101	168943	18.717	ug/l	96
10) Methyl Iodide	3.28	142	223263	20.148	ug/l	95
11) Tert butyl alcohol	4.07	59	50118	96.222	ug/l #	93
12) 1,1-Dichloroethene	3.11	96	130040	20.288	ug/l	96
13) Acrolein	3.02	56	20286	129.043	ug/l	95
14) Allyl chloride	3.60	41	198485	19.704	ug/l	96
15) Acrylonitrile	4.18	53	123958	107.662	ug/l	98
16) Acetone	3.22	43	194433	89.195	ug/l	95
17) Carbon Disulfide	3.35	76	345863	18.852	ug/l	98
18) Methyl Acetate	3.64	43	97918	31.761	ug/l	98
19) Methyl tert-butyl Ether	4.22	73	327043	20.213	ug/l	94
20) Methylene Chloride	3.80	84	155462	18.877	ug/l	95
21) trans-1,2-Dichloroethene	4.20	96	148302	20.843	ug/l	89
22) Diisopropyl ether	5.11	45	455869	20.814	ug/l #	94
23) Vinyl Acetate	5.04	43	1262040	98.768	ug/l	99
24) 1,1-Dichloroethane	4.97	63	282518	20.941	ug/l	97
25) 2-Butanone	6.06	43	201712	96.903	ug/l	97
26) 2,2-Dichloropropane	6.00	77	294654	19.734	ug/l	94
27) cis-1,2-Dichloroethene	6.01	96	164958	20.380	ug/l	96
28) Bromochloromethane	6.42	49	96206	19.656	ug/l #	92
29) Tetrahydrofuran	6.44	42	90696	96.117	ug/l	95
30) Chloroform	6.65	83	349349	21.026	ug/l	99
31) Cyclohexane	6.94	56	166392	19.366	ug/l	95
32) 1,1,1-Trichloroethane	6.86	97	326101	19.903	ug/l	97
36) 1,1-Dichloropropene	7.12	75	213771	19.005	ug/l	96
37) Ethyl Acetate	6.17	43	115153	23.920	ug/l #	88
38) Carbon Tetrachloride	7.09	117	303445	17.753	ug/l	89

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 08:11:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.85	83	186327	19.160	ug/l	93
40) Benzene	7.44	78	487325	20.685	ug/l	97
41) Methacrylonitrile	6.43	41	131767	20.189	ug/l #	87
42) 1,2-Dichloroethane	7.56	62	250616	19.967	ug/l	97
43) Isopropyl Acetate	9.23	43	129637	18.787	ug/l #	99
44) Trichloroethene	8.52	130	182908	20.089	ug/l	97
45) 1,2-Dichloropropane	8.93	63	123533	21.031	ug/l	90
46) Dibromomethane	9.05	93	101227	20.055	ug/l	95
47) Bromodichloromethane	9.36	83	263983	20.042	ug/l	100
48) Methyl methacrylate	9.11	41	93059	20.537	ug/l	97
49) 1,4-Dioxane	9.06	88	16340	418.124	ug/l	98
51) 4-Methyl-2-Pentanone	10.29	43	484940	105.961	ug/l	99
52) Toluene	10.50	92	317884	20.206	ug/l	90
53) t-1,3-Dichloropropene	10.90	75	234624	20.792	ug/l	97
54) cis-1,3-Dichloropropene	10.03	75	246416	21.119	ug/l	92
55) 1,1,2-Trichloroethane	11.18	97	111910	20.584	ug/l	96
56) Ethyl methacrylate	11.03	69	112385	18.501	ug/l	96
57) 1,3-Dichloropropane	11.40	76	163815	19.802	ug/l	93
58) 2-Chloroethyl Vinyl ether	9.84	63	310550	91.817	ug/l	95
59) 2-Hexanone	11.52	43	337972	95.756	ug/l	93
60) Dibromochloromethane	11.67	129	204393	19.613	ug/l	96
61) 1,2-Dibromoethane	11.79	107	132768	20.402	ug/l	91
64) Tetrachloroethene	11.25	164	171274	21.430	ug/l	94
65) Chlorobenzene	12.39	112	396294	20.468	ug/l	99
66) 1,1,1,2-Tetrachloroethane	12.51	131	193210	21.524	ug/l	97
67) Ethyl Benzene	12.52	91	730022	21.700	ug/l	97
68) m/p-Xylenes	12.66	106	486446	40.372	ug/l	92
69) o-Xylene	13.04	106	209444	18.332	ug/l	89
70) Styrene	13.06	104	385200	19.261	ug/l	99
71) Bromoform	13.23	173	129142	20.549	ug/l	99
73) Isopropylbenzene	13.39	105	671016	19.220	ug/l	96
74) N-amyl acetate	13.26	43	177624	18.242	ug/l	94
75) 1,1,2,2-Tetrachloroethane	13.69	83	123420	19.429	ug/l	94
76) 1,2,3-Trichloropropane	13.73	75	142665	20.514	ug/l	97
77) Bromobenzene	13.66	156	195730	19.769	ug/l	91
78) n-propylbenzene	13.77	91	789124	19.641	ug/l	98
79) 2-Chlorotoluene	13.83	91	481067	19.803	ug/l	99
80) 1,3,5-Trimethylbenzene	13.93	105	619011	20.343	ug/l	96
81) trans-1,4-Dichloro-2-buten	13.46	75	38659	21.110	ug/l	93
82) 4-Chlorotoluene	13.94	91	597727	21.071	ug/l	89
83) tert-Butylbenzene	14.18	119	663697	19.290	ug/l	90
84) 1,2,4-Trimethylbenzene	14.23	105	607695	20.032	ug/l	99
85) sec-Butylbenzene	14.36	105	715903	19.584	ug/l	97
86) p-Isopropyltoluene	14.49	119	654007	19.178	ug/l	96
87) 1,3-Dichlorobenzene	14.45	146	351570	19.884	ug/l	96
88) 1,4-Dichlorobenzene	14.53	146	372798	21.993	ug/l	95
89) n-Butylbenzene	14.79	91	591268	18.811	ug/l	99
90) Hexachloroethane	15.00	117	177974	19.523	ug/l	76
91) 1,2-Dichlorobenzene	14.80	146	311999	19.816	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	15.37	75	21698	17.821	ug/l	79

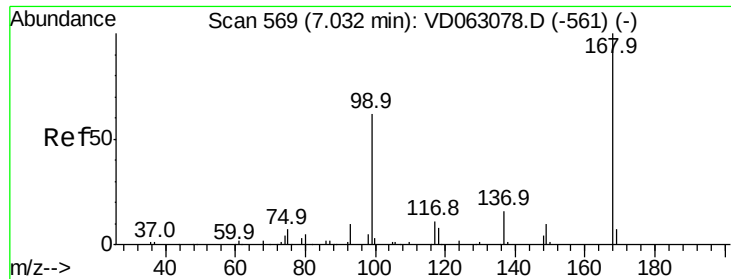
Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071619\
Data File : VD063102.D
Acq On : 16 Jul 2019 13:16
Operator : VA/AP
Sample : VD0716SBSD02
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Quant Title : SW846 8260
QLast Update : Tue Jul 16 08:11:56 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.93	180	243743	20.606	ug/l	97
94) Hexachlorobutadiene	16.03	225	148090	16.985	ug/l	96
95) Naphthalene	16.12	128	344056	19.884	ug/l	95
96) 1,2,3-Trichlorobenzene	16.26	180	182368	19.165	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.00 min

Lab File: VD063102.D

Acq: 16 Jul 2019 13:16

Instrument :

MSVOA_D

ClientSampleId :

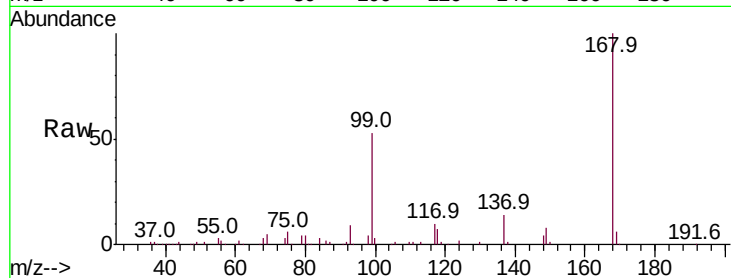
VD0716SBS02

Tot Ion:168 Resp: 724518

Ion Ratio Lower Upper

168 100

99 53.2 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

250000

200000

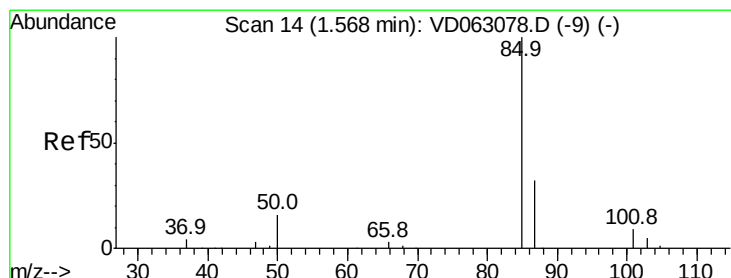
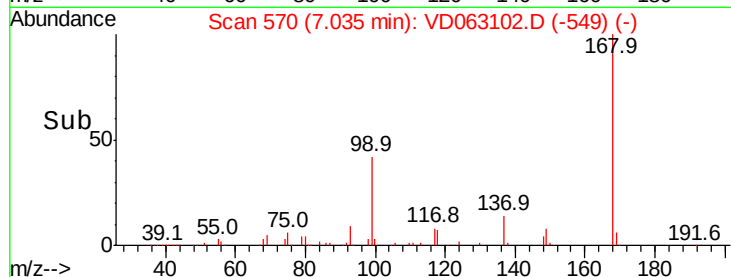
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 22.351 ug/l

RT: 1.56 min Scan# 14

Delta R.T. -0.01 min

Lab File: VD063102.D

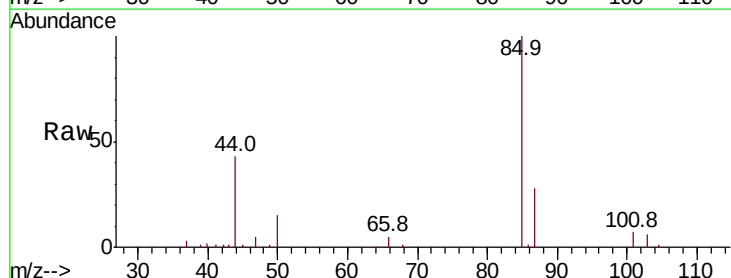
Acq: 16 Jul 2019 13:16

Tgt Ion: 85 Resp: 185376

Ion Ratio Lower Upper

85 100

87 27.8 15.9 47.7



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.56

100000

80000

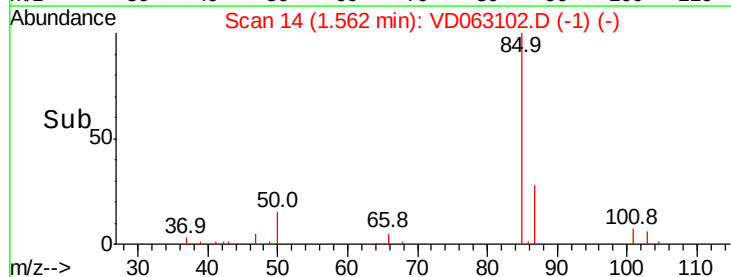
60000

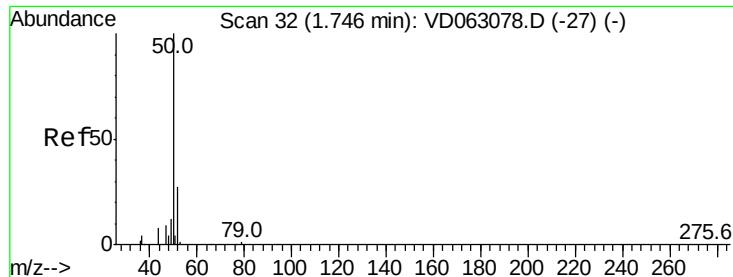
40000

20000

0

Time-->





#3

Chloromethane

Concen: 21.110 ug/l

RT: 1.74 min Scan# 32

Delta R.T. -0.01 min

Lab File: VD063102.D

Acq: 16 Jul 2019 13:16

Instrument :

MSVOA_D

ClientSampleId :

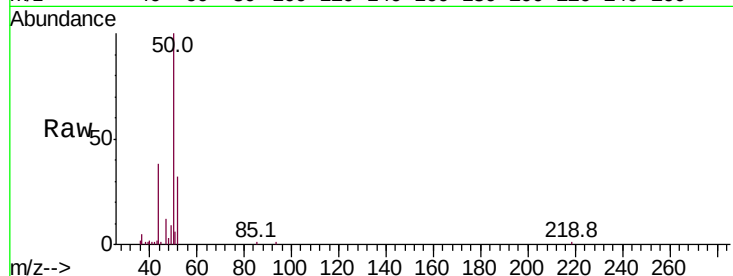
VD0716SBSD02

Tot Ion: 50 Resp: 151301

Ion Ratio Lower Upper

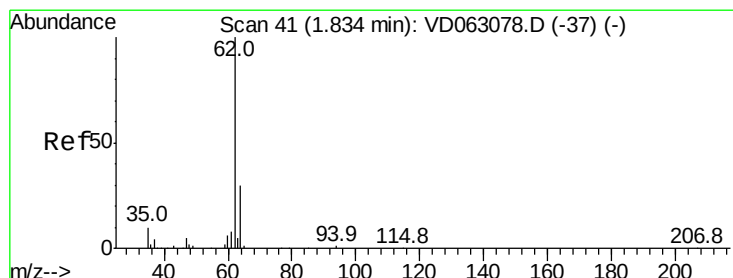
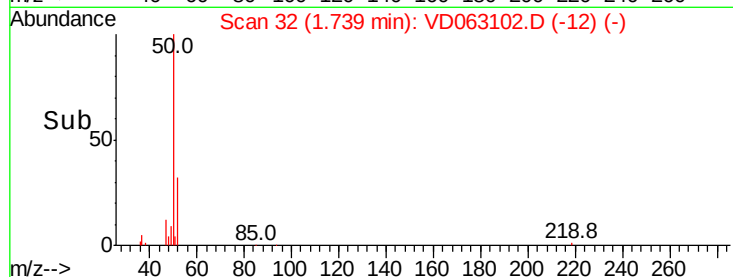
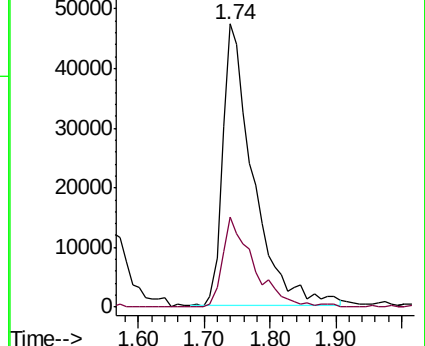
50 100

52 32.1 21.4 32.2



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 19.629 ug/l

RT: 1.84 min Scan# 42

Delta R.T. 0.00 min

Lab File: VD063102.D

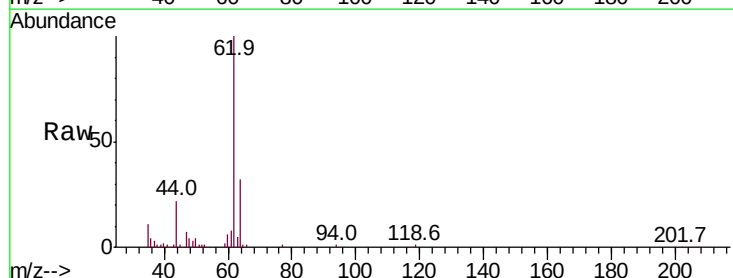
Acq: 16 Jul 2019 13:16

Tgt Ion: 62 Resp: 151783

Ion Ratio Lower Upper

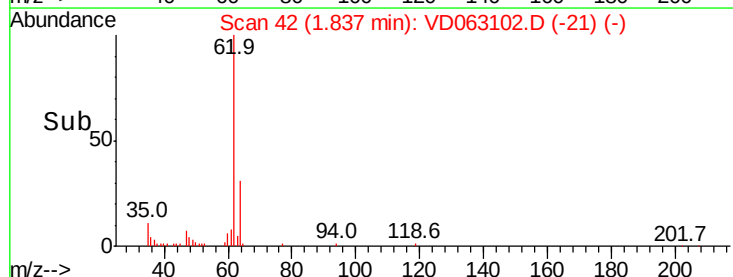
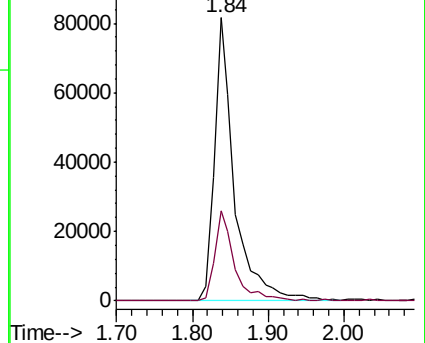
62 100

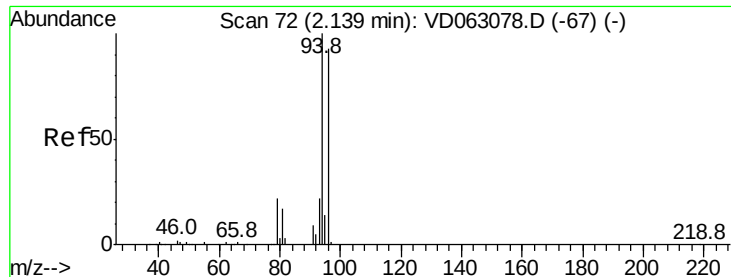
64 31.7 24.4 36.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 18.472 ug/l

RT: 2.14 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD063102.D

Acq: 16 Jul 2019 13:16

Instrument :

MSVOA_D

ClientSampleId :

VD0716SBSD02

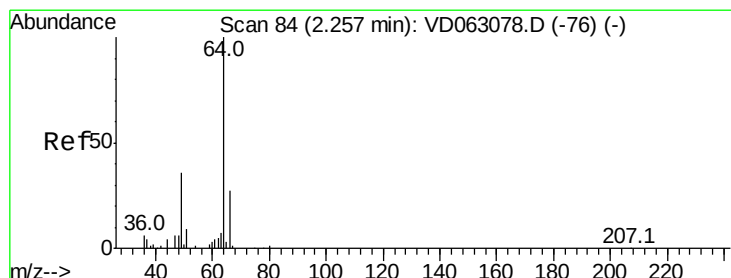
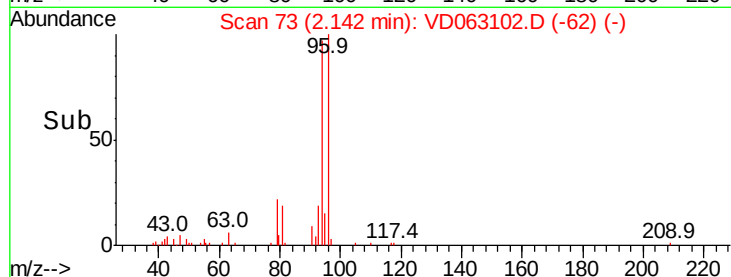
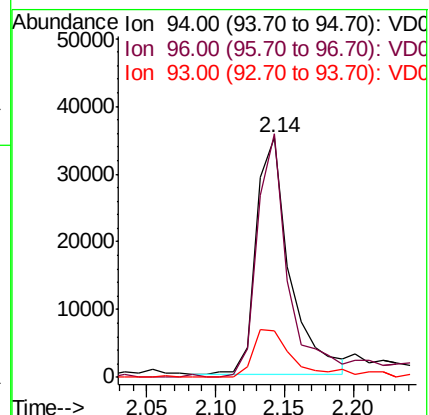
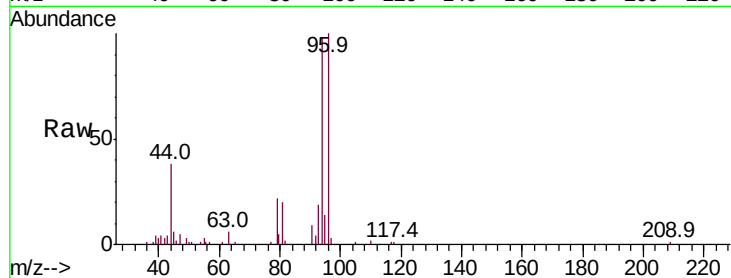
Tot Ion: 94 Resp: 60551

Ion Ratio Lower Upper

94 100

96 101.7 74.2 111.2

93 19.2 17.8 26.6



#6

Chloroethane

Concen: 18.917 ug/l

RT: 2.25 min Scan# 84

Delta R.T. -0.01 min

Lab File: VD063102.D

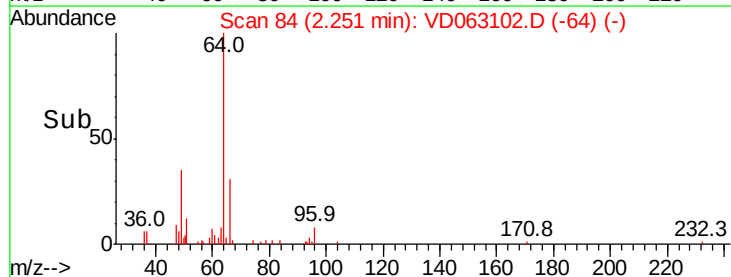
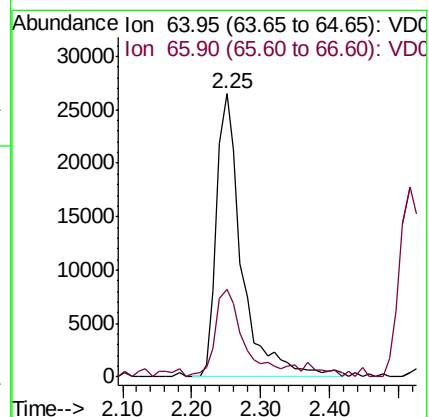
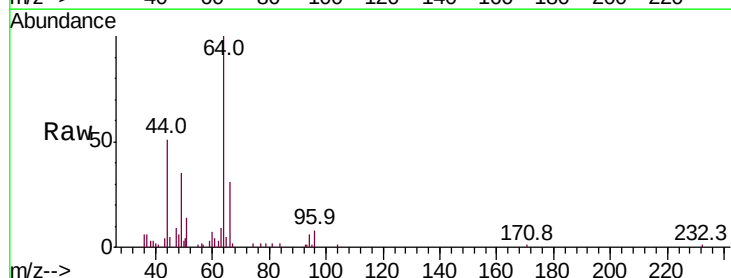
Acq: 16 Jul 2019 13:16

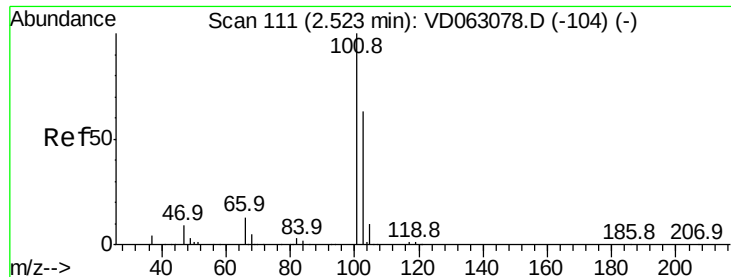
Tgt Ion: 64 Resp: 67950

Ion Ratio Lower Upper

64 100

66 30.9 22.5 33.7



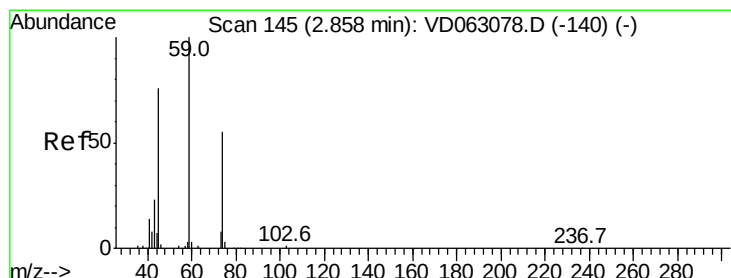
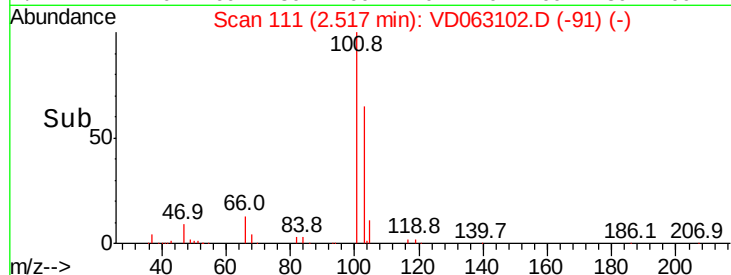
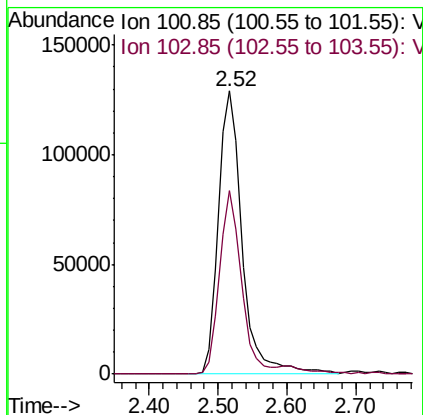
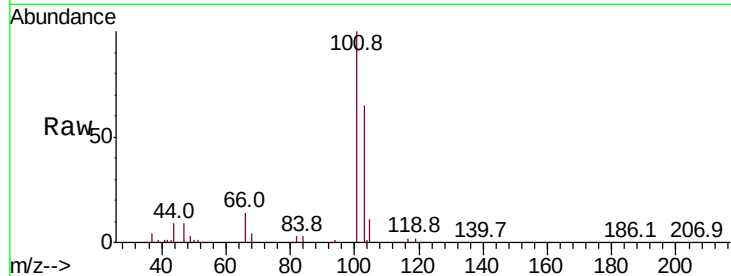


#7

Trichlorofluoromethane
Concen: 19.780 ug/l
RT: 2.52 min Scan# 111
Delta R.T. -0.01 min
Lab File: VD063102.D
Acq: 16 Jul 2019 13:16

Instrument :
MSVOA_D
ClientSampleId :
VD0716SBSD02

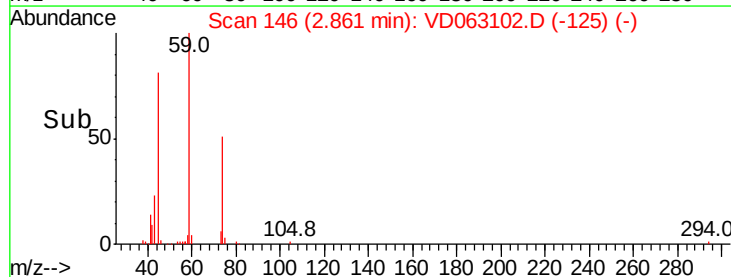
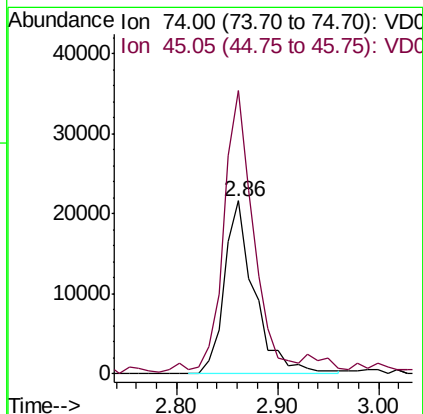
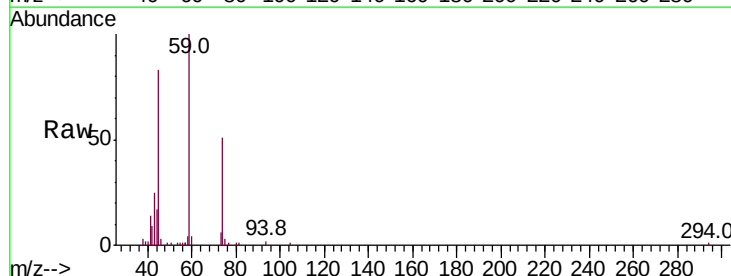
Tot Ion:101 Resp: 309630
Ion Ratio Lower Upper
101 100
103 65.0 50.6 76.0

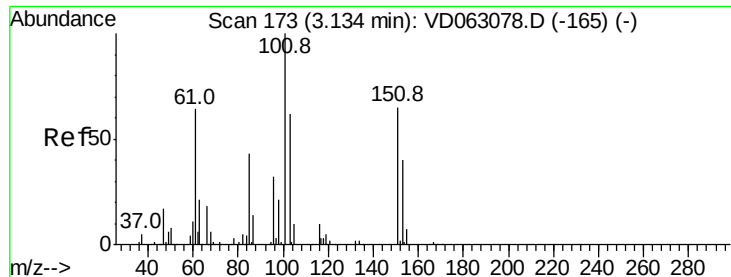


#8

Diethyl Ether
Concen: 20.560 ug/l
RT: 2.86 min Scan# 146
Delta R.T. 0.00 min
Lab File: VD063102.D
Acq: 16 Jul 2019 13:16

Tgt Ion: 74 Resp: 45272
Ion Ratio Lower Upper
74 100
45 163.6 69.5 208.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.717 ug/l

RT: 3.13 min Scan# 173

Delta R.T. -0.01 min

Lab File: VD063102.D

Acq: 16 Jul 2019 13:16

Instrument :

MSVOA_D

ClientSampleId :

VD0716SBSD02

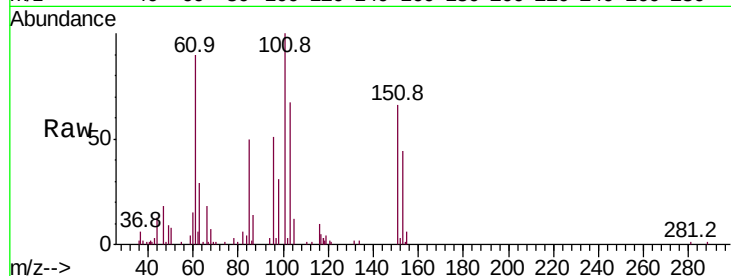
Tot Ion:101 Resp: 168943

Ion Ratio Lower Upper

101 100

85 49.5 34.6 51.8

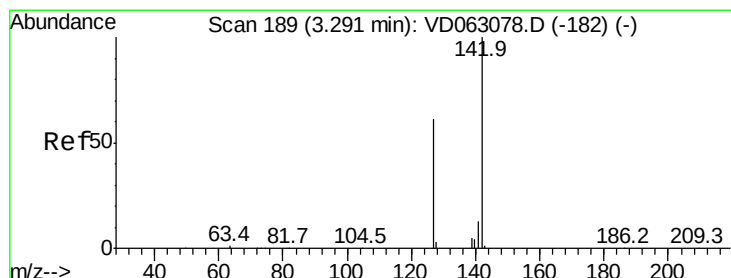
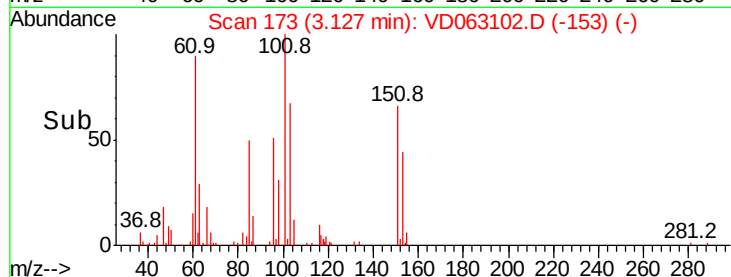
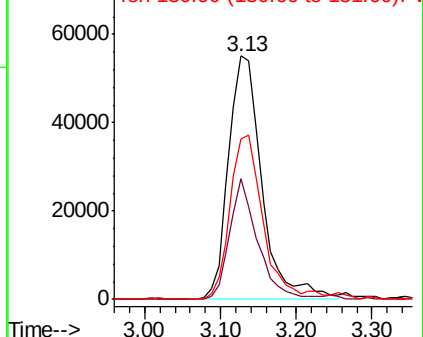
151 66.1 52.4 78.6



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 20.148 ug/l

RT: 3.28 min Scan# 189

Delta R.T. -0.01 min

Lab File: VD063102.D

Acq: 16 Jul 2019 13:16

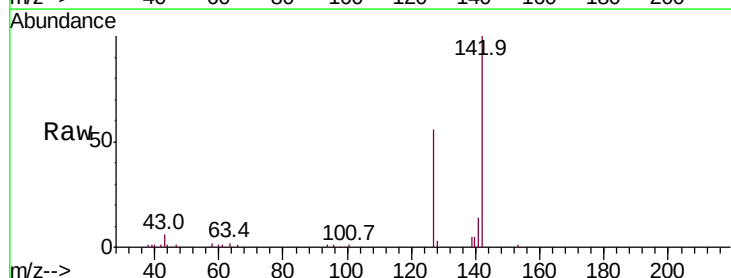
Tgt Ion:142 Resp: 223263

Ion Ratio Lower Upper

142 100

127 56.1 48.6 73.0

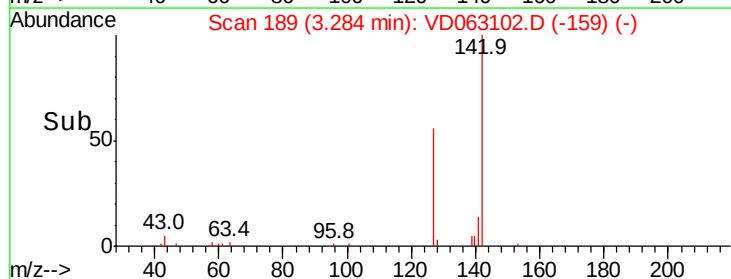
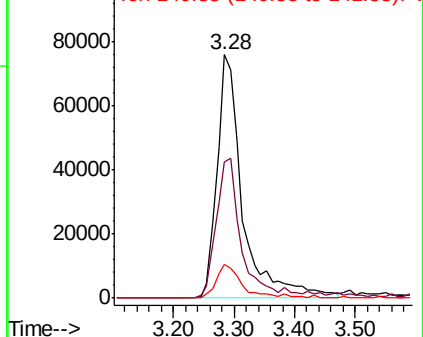
141 13.8 10.6 16.0

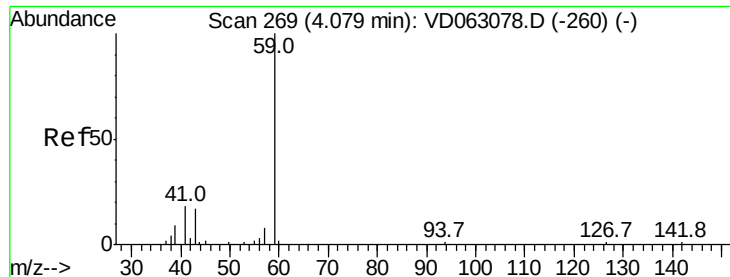


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



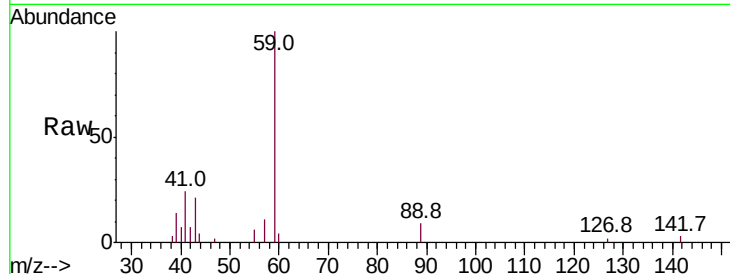


#11

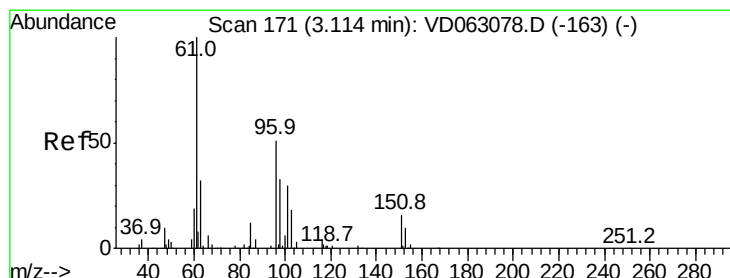
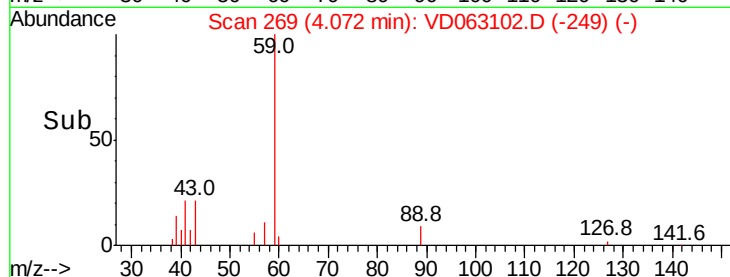
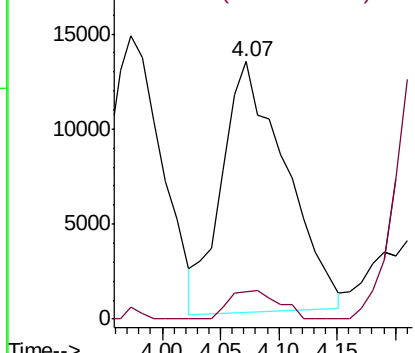
Tert butyl alcohol
Concen: 96.222 ug/l
RT: 4.07 min Scan# 269
Delta R.T. -0.01 min
Lab File: VD063102.D
Acq: 16 Jul 2019 13:16

Instrument :
MSVOA_D
ClientSampleId :
VD0716SBS02

Tot Ion: 59 Resp: 50118
Ion Ratio Lower Upper
59 100
57 10.6 6.4 9.6#



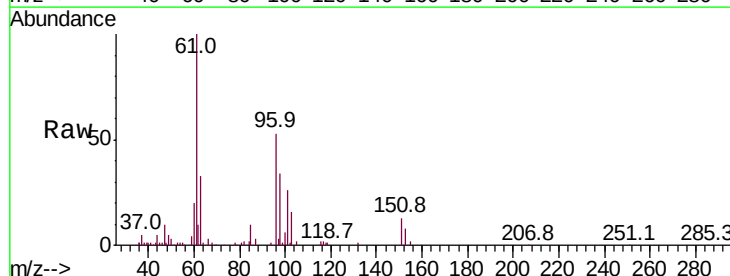
Abundance Ion 58.95 (58.65 to 59.65): VDC
Ion 56.95 (56.65 to 57.65): VDC



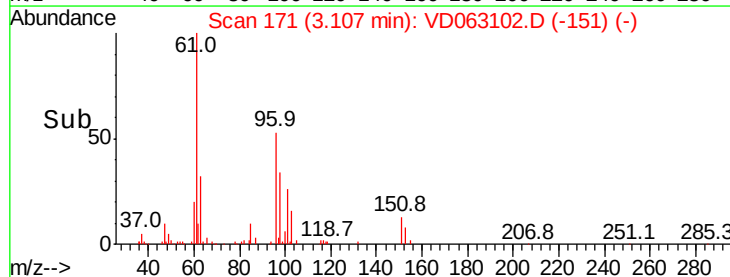
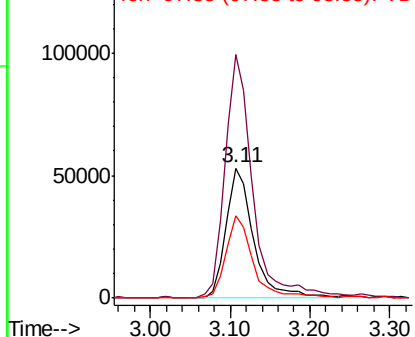
#12

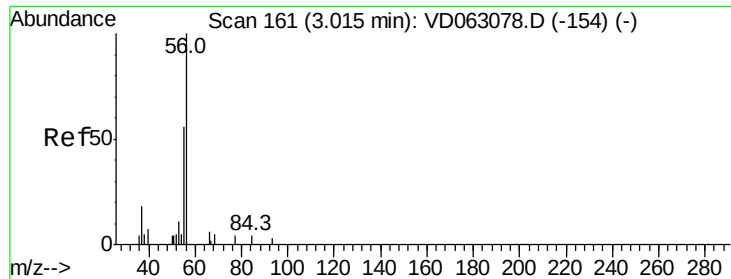
1,1-Dichloroethene
Concen: 20.288 ug/l
RT: 3.11 min Scan# 171
Delta R.T. -0.01 min
Lab File: VD063102.D
Acq: 16 Jul 2019 13:16

Tgt Ion: 96 Resp: 130040
Ion Ratio Lower Upper
96 100
61 187.4 155.5 233.3
98 63.3 51.5 77.3



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





#13

Acrolein

Concen: 129.043 ug/l

RT: 3.02 min Scan# 162

Delta R.T. 0.00 min

Lab File: VD063102.D

Acq: 16 Jul 2019 13:16

Instrument :

MSVOA_D

ClientSampleId :

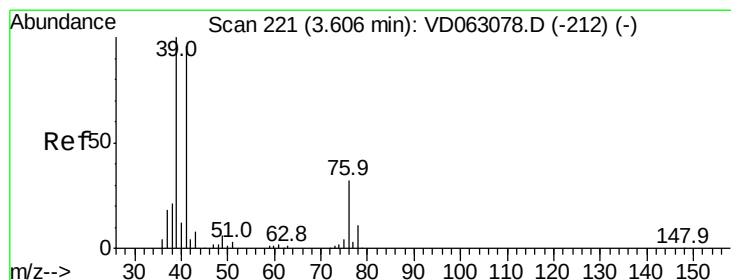
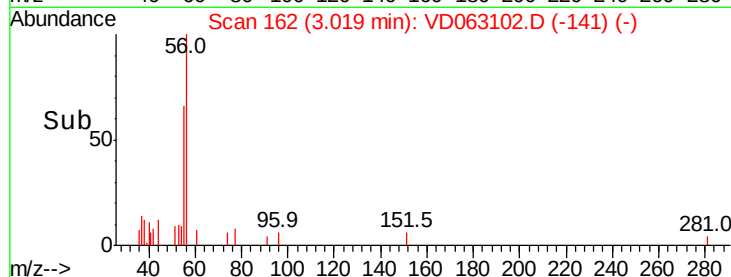
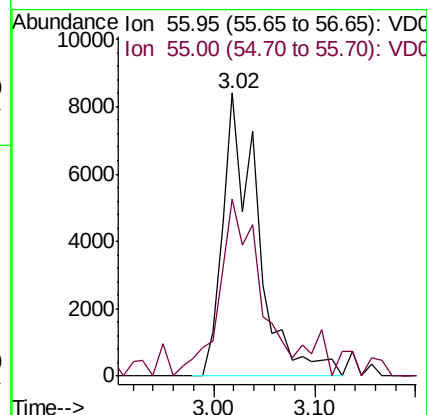
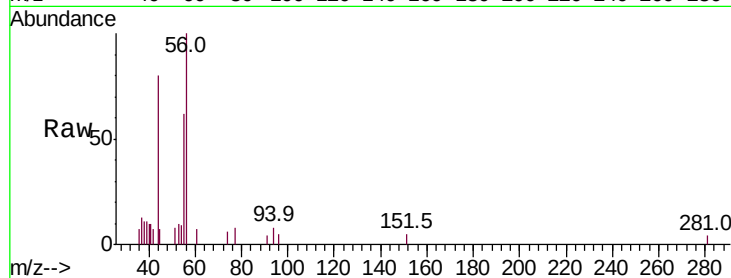
VD0716SBS02

Tot Ion: 56 Resp: 20286

Ion Ratio Lower Upper

56 100

55 62.4 53.0 79.4



#14

Allyl chloride

Concen: 19.704 ug/l

RT: 3.60 min Scan# 221

Delta R.T. -0.01 min

Lab File: VD063102.D

Acq: 16 Jul 2019 13:16

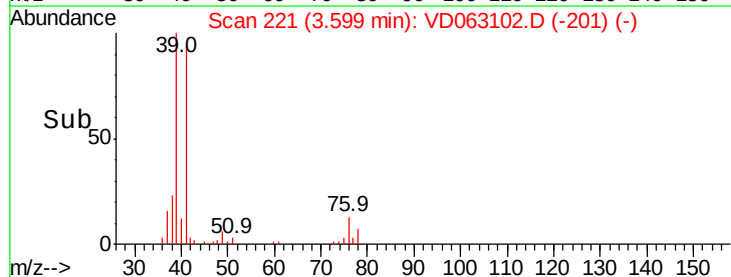
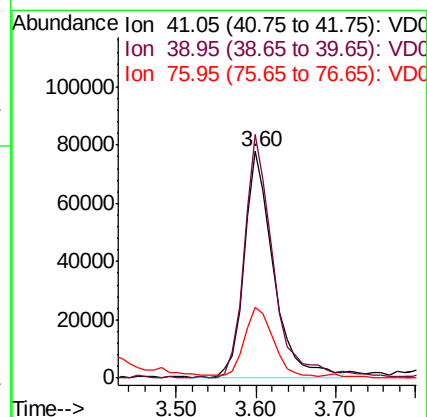
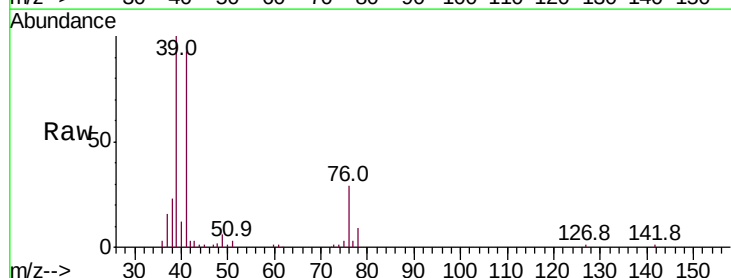
Tgt Ion: 41 Resp: 198485

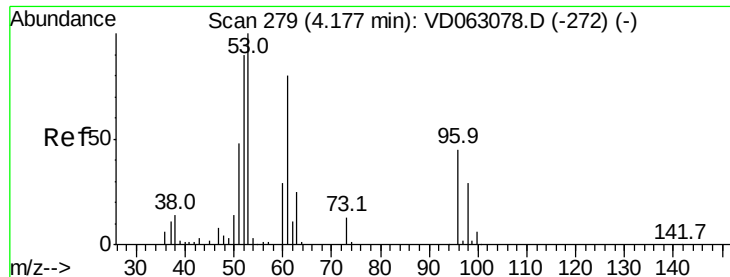
Ion Ratio Lower Upper

41 100

39 107.4 83.5 125.3

76 31.3 27.8 41.8





#15

Acrylonitrile

Concen: 107.662 ug/l

RT: 4.18 min Scan# 280

Delta R.T. 0.00 min

Lab File: VD063102.D

Acq: 16 Jul 2019 13:16

Instrument :

MSVOA_D

ClientSampleId :

VD0716SBS02

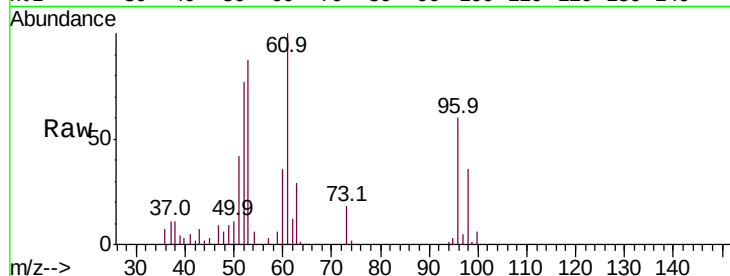
Tot Ion: 53 Resp: 123958

Ion Ratio Lower Upper

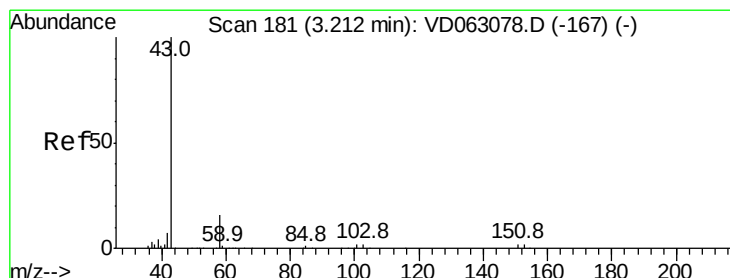
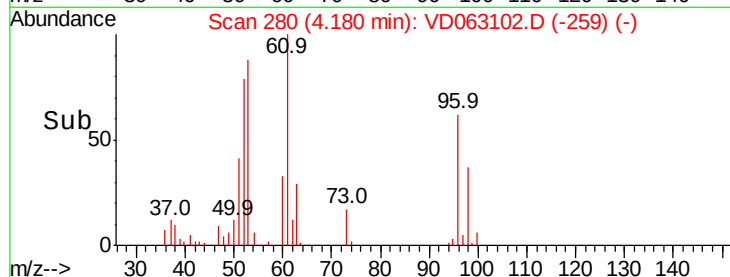
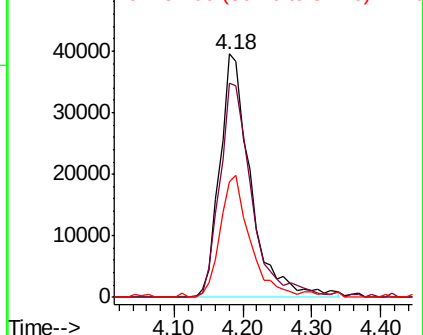
53 100

52 87.9 72.3 108.5

51 47.7 38.0 57.0



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: 89.195 ug/l

RT: 3.22 min Scan# 182

Delta R.T. 0.00 min

Lab File: VD063102.D

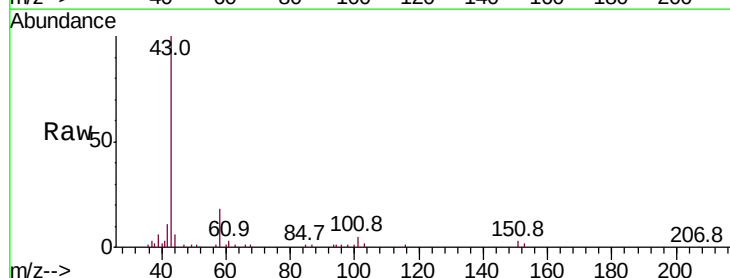
Acq: 16 Jul 2019 13:16

Tgt Ion: 43 Resp: 194433

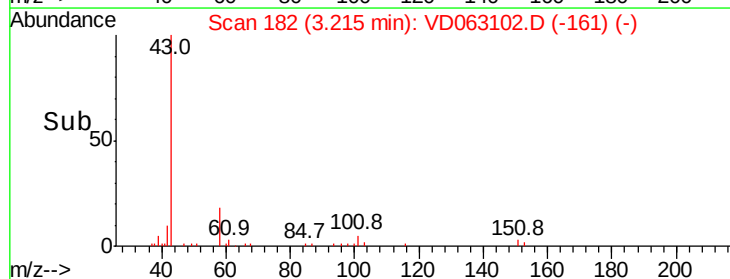
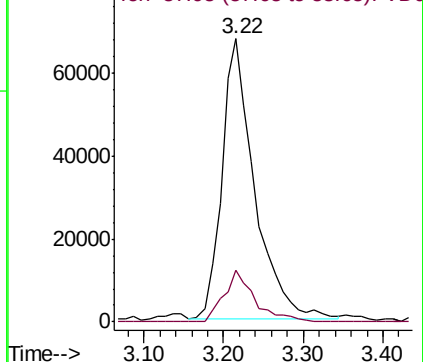
Ion Ratio Lower Upper

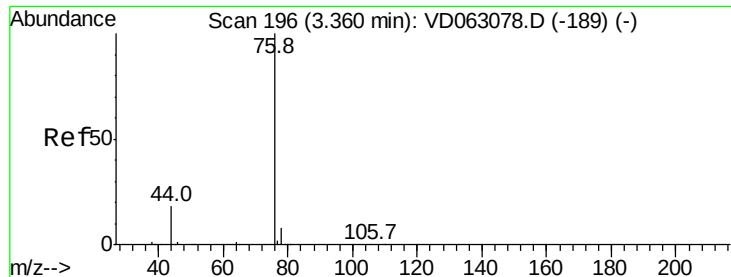
43 100

58 18.2 13.0 19.4



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

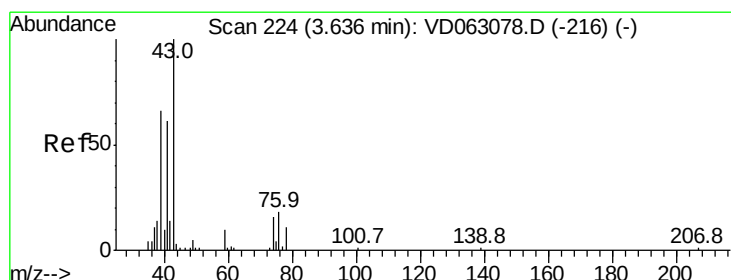
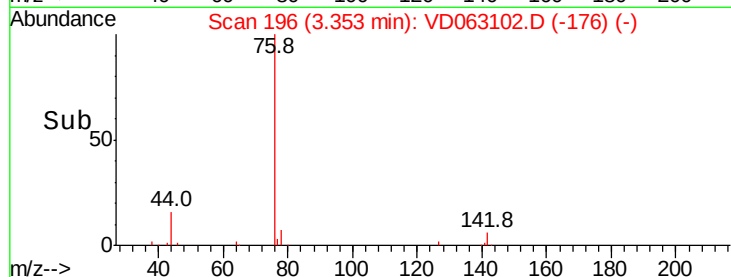
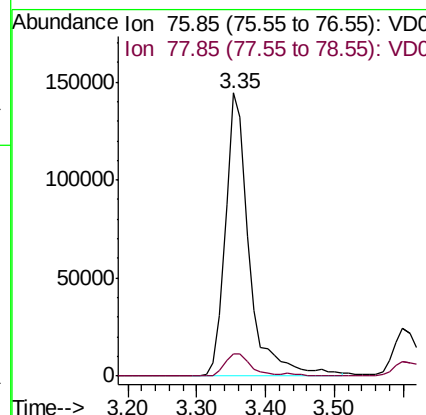
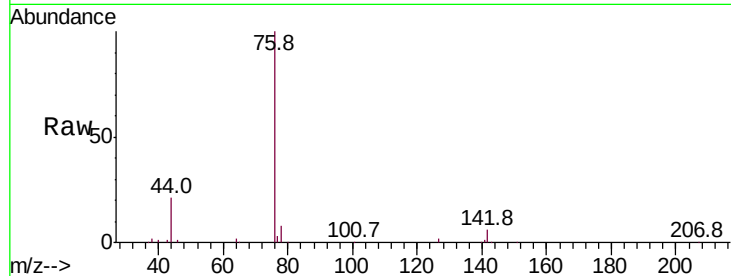




#17
Carbon Disulfide
Concen: 18.852 ug/l
RT: 3.35 min Scan# 196
Delta R.T. -0.01 min
Lab File: VD063102.D
Acq: 16 Jul 2019 13:16

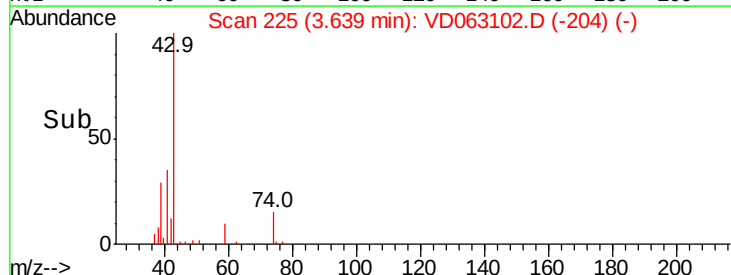
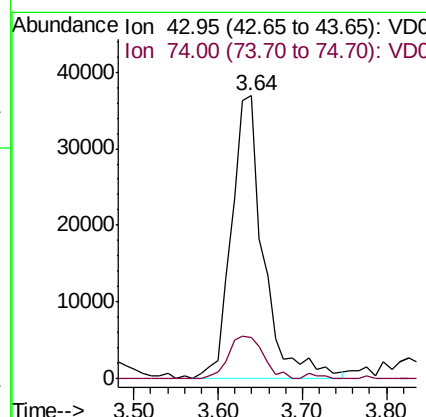
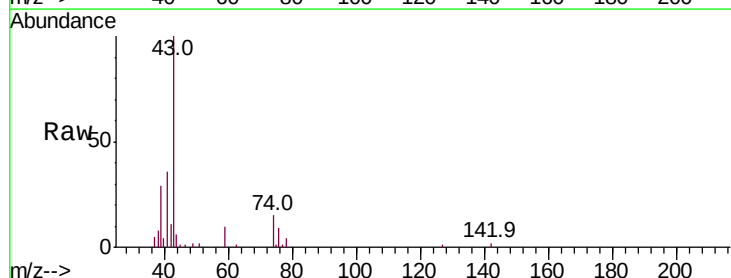
Instrument :
MSVOA_D
ClientSampleId :
VD0716SBSD02

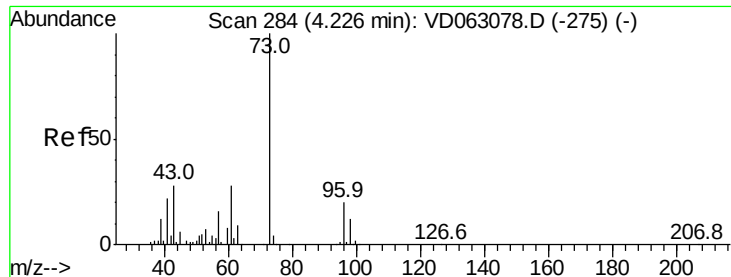
Tot Ion: 76 Resp: 345863
Ion Ratio Lower Upper
76 100
78 7.7 6.7 10.1



#18
Methyl Acetate
Concen: 31.761 ug/l
RT: 3.64 min Scan# 225
Delta R.T. 0.00 min
Lab File: VD063102.D
Acq: 16 Jul 2019 13:16

Tgt Ion: 43 Resp: 97918
Ion Ratio Lower Upper
43 100
74 14.6 12.5 18.7



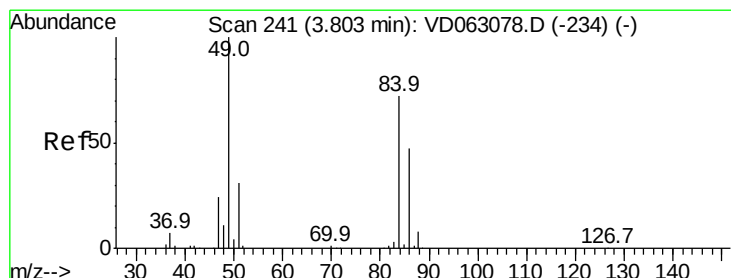
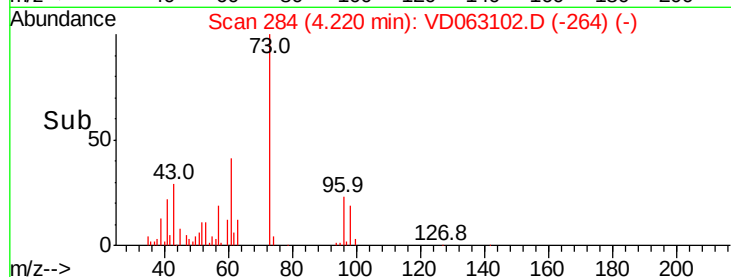
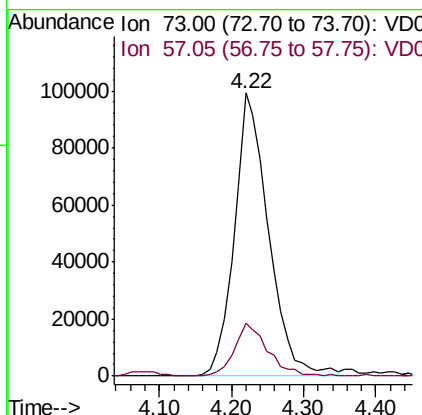
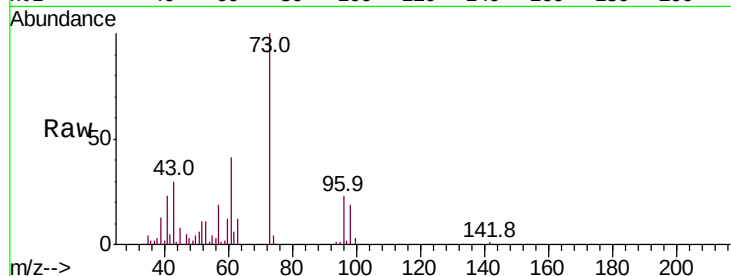


#19

Methyl tert-butyl Ether
 Concen: 20.213 ug/l
 RT: 4.22 min Scan# 284
 Delta R.T. -0.01 min
 Lab File: VD063102.D
 Acq: 16 Jul 2019 13:16

Instrument :
 MSVOA_D
 ClientSampleID :
 VD0716SBS02

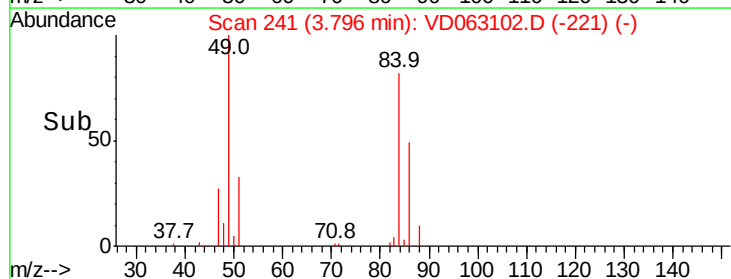
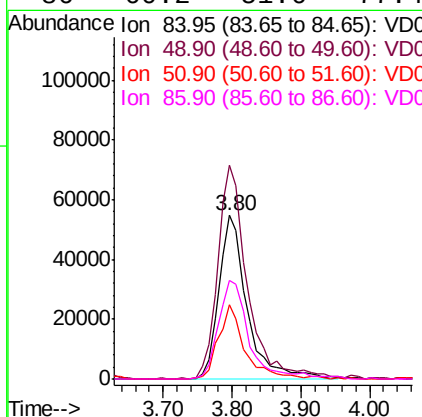
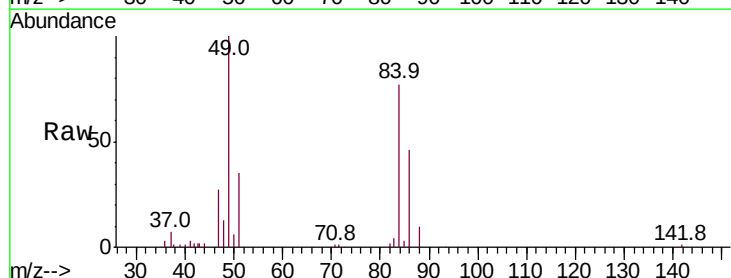
Tot Ion: 73 Resp: 327043
 Ion Ratio Lower Upper
 73 100
 57 18.9 13.1 19.7

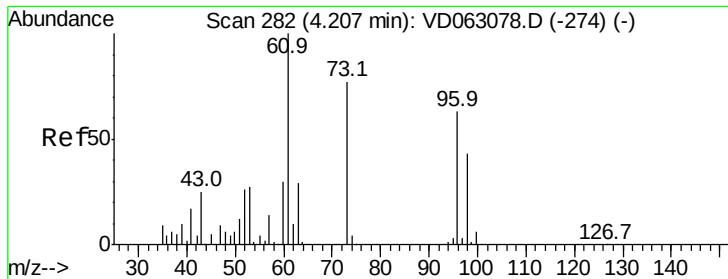


#20

Methylene Chloride
 Concen: 18.877 ug/l
 RT: 3.80 min Scan# 241
 Delta R.T. -0.01 min
 Lab File: VD063102.D
 Acq: 16 Jul 2019 13:16

Tgt Ion: 84 Resp: 155462
 Ion Ratio Lower Upper
 84 100
 49 130.5 110.5 165.7
 51 45.1 34.6 51.8
 86 60.2 51.6 77.4





#21

trans-1,2-Dichloroethene

Concen: 20.843 ug/l

RT: 4.20 min Scan# 282

Delta R.T. -0.01 min

Lab File: VD063102.D

Acq: 16 Jul 2019 13:16

Instrument :

MSVOA_D

ClientSampleId :

VD0716SBSD02

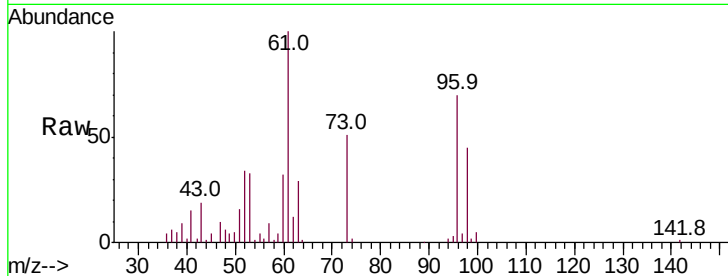
Tot Ion: 96 Resp: 148302

Ion Ratio Lower Upper

96 100

61 142.5 128.0 192.0

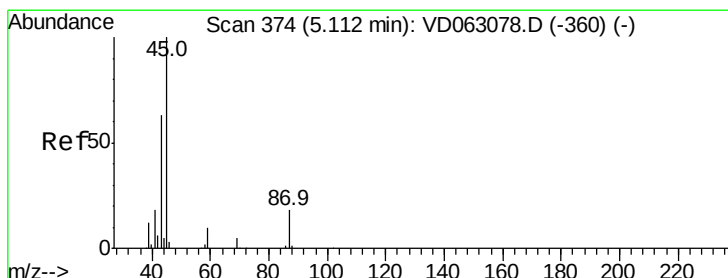
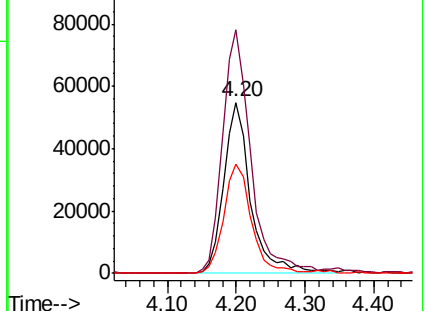
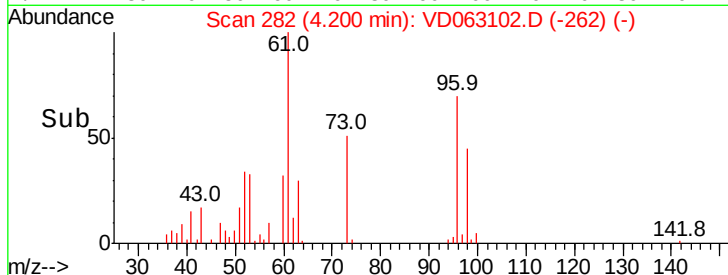
98 64.0 55.2 82.8



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



#22

Diisopropyl ether

Concen: 20.814 ug/l

RT: 5.11 min Scan# 374

Delta R.T. -0.01 min

Lab File: VD063102.D

Acq: 16 Jul 2019 13:16

Tgt Ion: 45 Resp: 455869

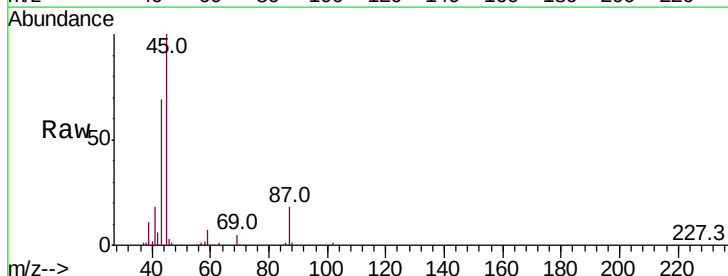
Ion Ratio Lower Upper

45 100

43 68.9 50.5 75.7

87 18.5 15.1 22.7

59 7.0 7.6 11.4#

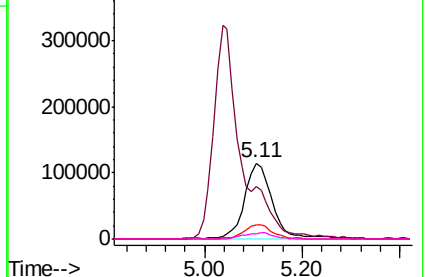
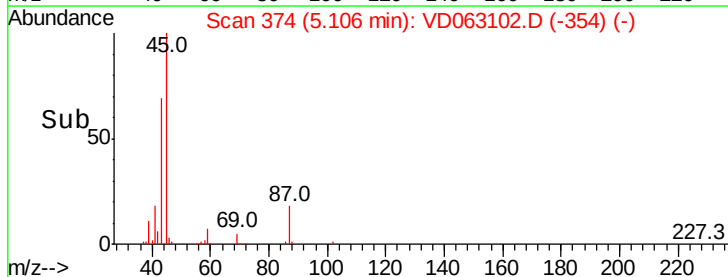


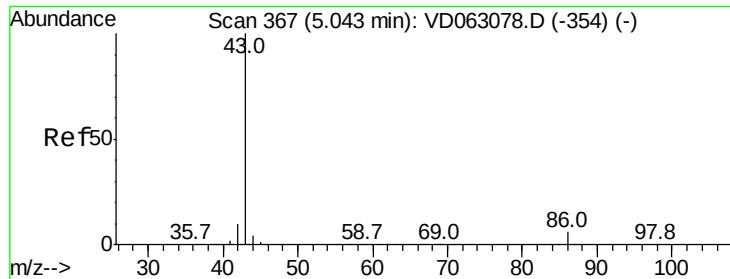
Abundance Ion 45.05 (44.75 to 45.75): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 87.00 (86.70 to 87.70): VDC

Ion 58.95 (58.65 to 59.65): VDC

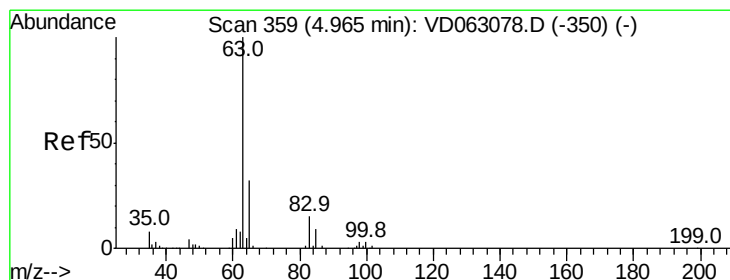
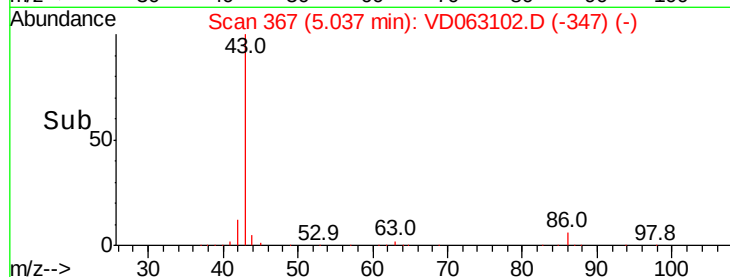
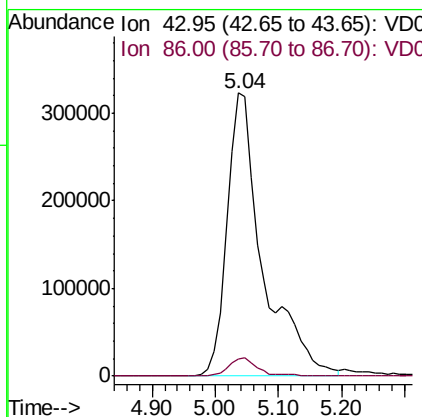
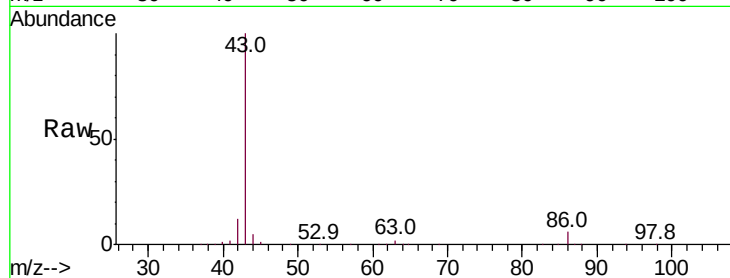




#23
Vinyl Acetate
Concen: 98.768 ug/l
RT: 5.04 min Scan# 367
Delta R.T. -0.01 min
Lab File: VD063102.D
Acq: 16 Jul 2019 13:16

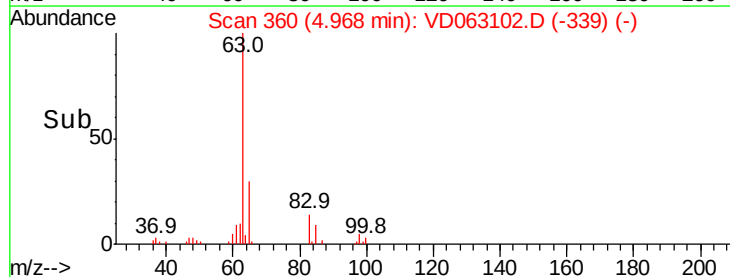
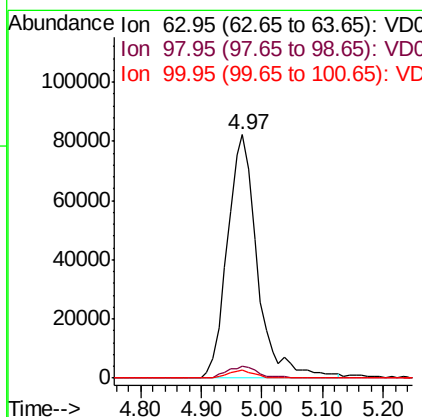
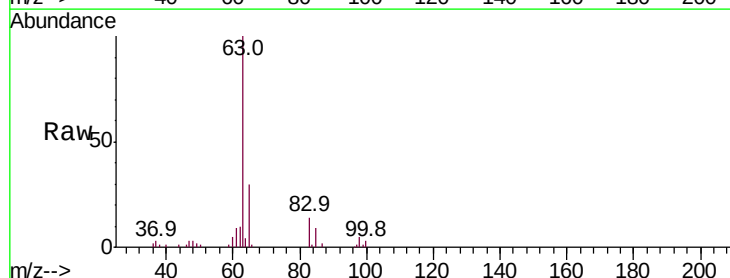
Instrument :
MSVOA_D
ClientSampleId :
VD0716SBS02

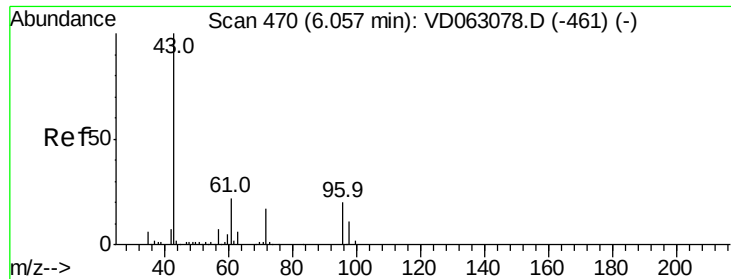
Tot Ion: 43 Resp: 1262040
Ion Ratio Lower Upper
43 100
86 5.9 5.0 7.6



#24
1,1-Dichloroethane
Concen: 20.941 ug/l
RT: 4.97 min Scan# 360
Delta R.T. 0.00 min
Lab File: VD063102.D
Acq: 16 Jul 2019 13:16

Tgt Ion: 63 Resp: 282518
Ion Ratio Lower Upper
63 100
98 4.9 1.7 5.1
100 3.3 1.5 4.5

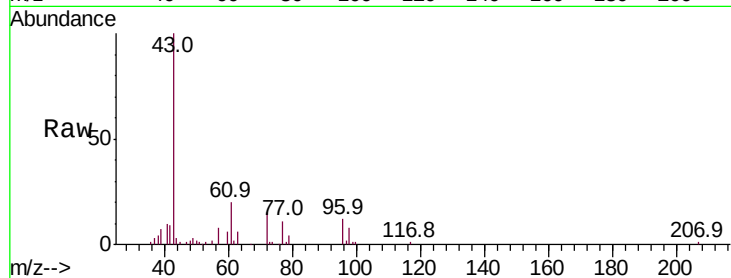




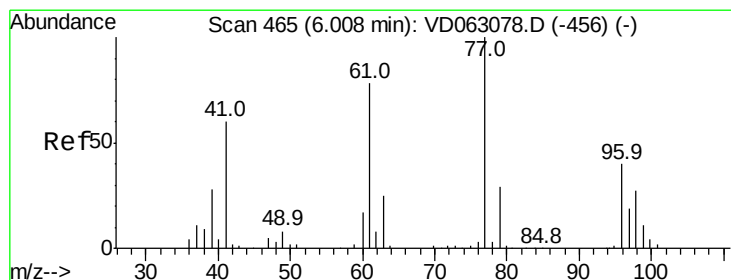
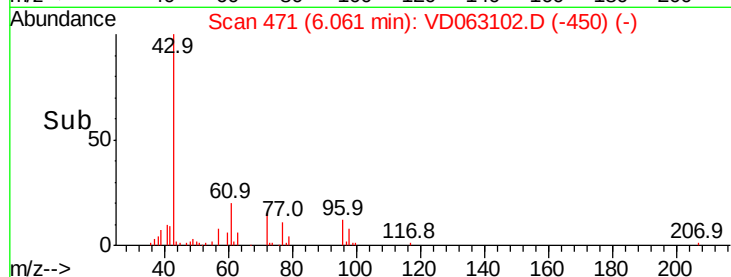
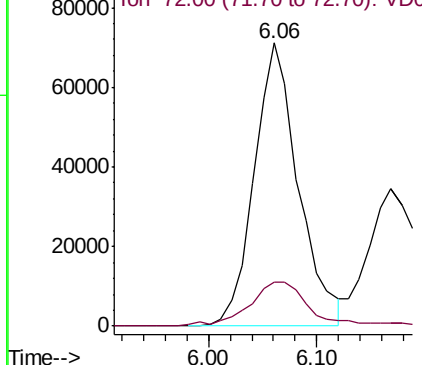
#25
2-Butanone
Concen: 96.903 ug/l
RT: 6.06 min Scan# 471
Delta R.T. 0.00 min
Lab File: VD063102.D
Acq: 16 Jul 2019 13:16

Instrument :
MSVOA_D
ClientSampleId :
VD0716SBS02

Tot Ion: 43 Resp: 201712
Ion Ratio Lower Upper
43 100
72 15.4 13.4 20.0

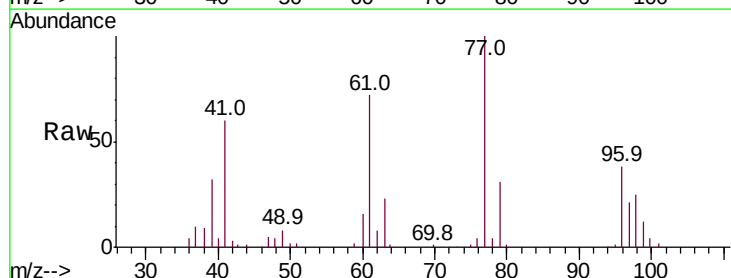


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC

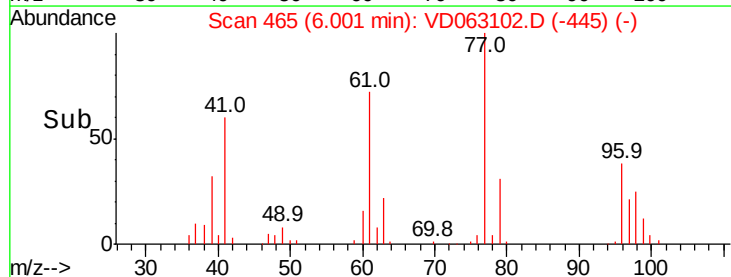
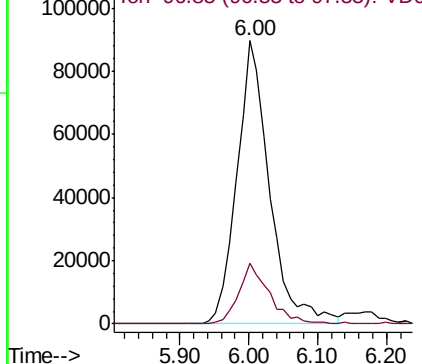


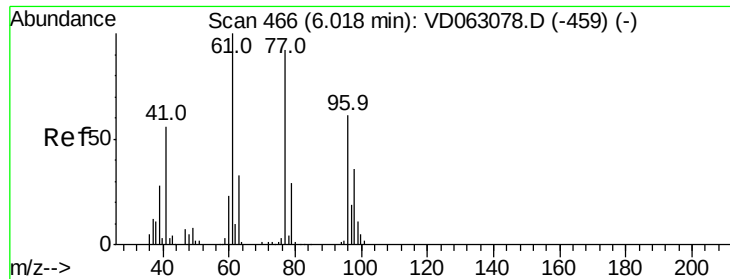
#26
2,2-Dichloropropane
Concen: 19.734 ug/l
RT: 6.00 min Scan# 465
Delta R.T. -0.01 min
Lab File: VD063102.D
Acq: 16 Jul 2019 13:16

Tgt Ion: 77 Resp: 294654
Ion Ratio Lower Upper
77 100
97 21.4 9.3 27.9



Abundance Ion 76.95 (76.65 to 77.65): VDC
Ion 96.85 (96.55 to 97.55): VDC



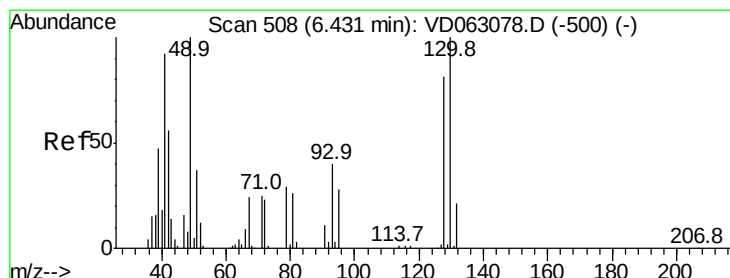
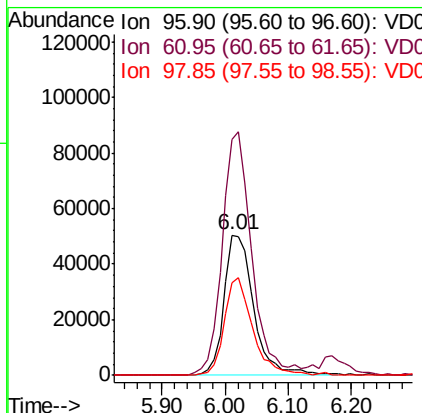
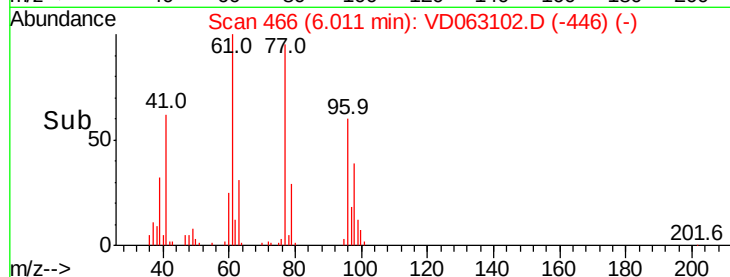
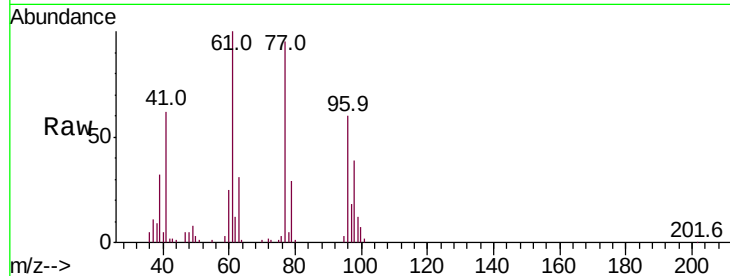


#27

cis-1,2-Dichloroethene
Concen: 20.380 ug/l
RT: 6.01 min Scan# 466
Delta R.T. -0.01 min
Lab File: VD063102.D
Acq: 16 Jul 2019 13:16

Instrument :
MSVOA_D
ClientSampleId :
VD0716SBSD02

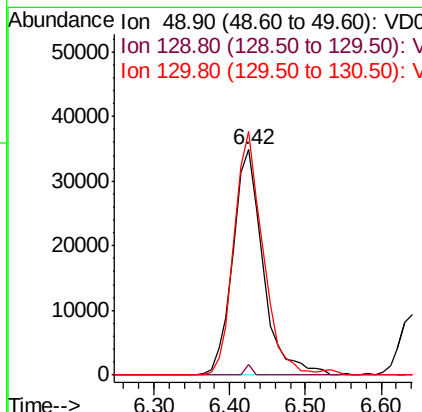
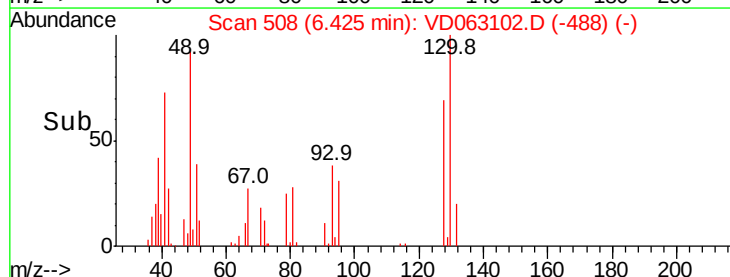
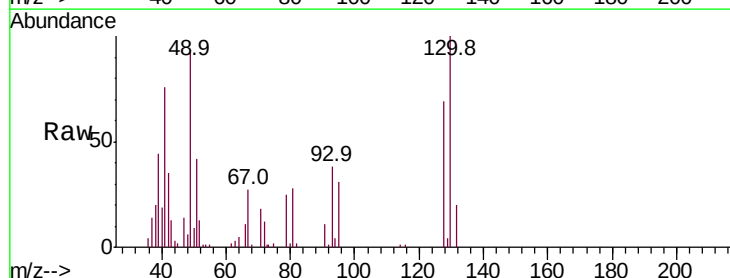
Tot Ion: 96 Resp: 164958
Ion Ratio Lower Upper
96 100
61 167.9 0.0 329.6
98 66.2 0.0 118.4

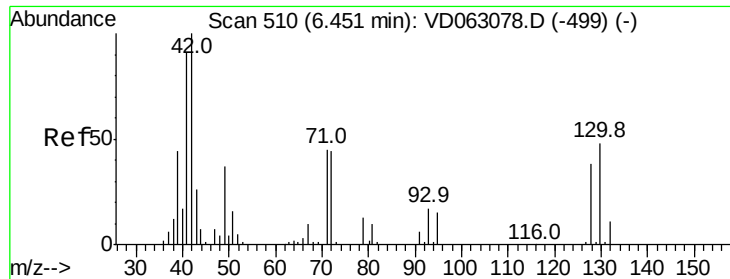


#28

Bromochloromethane
Concen: 19.656 ug/l
RT: 6.42 min Scan# 508
Delta R.T. -0.01 min
Lab File: VD063102.D
Acq: 16 Jul 2019 13:16

Tgt Ion: 49 Resp: 96206
Ion Ratio Lower Upper
49 100
129 4.7 0.0 3.6#
130 108.1 80.3 120.5





#29

Tetrahydrofuran

Concen: 96.117 ug/l

RT: 6.44 min Scan# 510

Delta R.T. -0.01 min

Lab File: VD063102.D

Acq: 16 Jul 2019 13:16

Instrument :

MSVOA_D

ClientSampleId :

VD0716SBS02

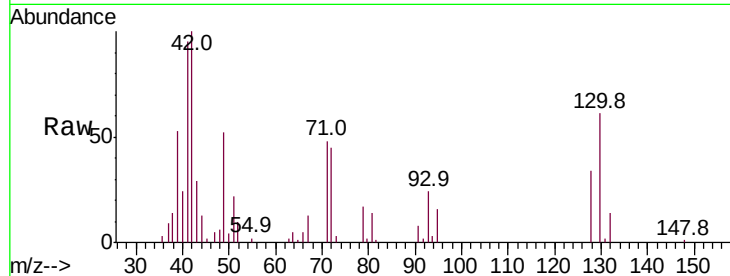
Tot Ion: 42 Resp: 90696

Ion Ratio Lower Upper

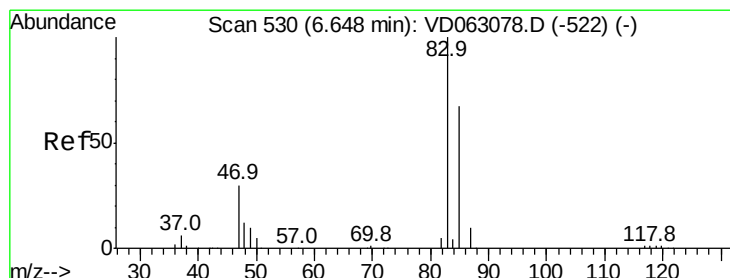
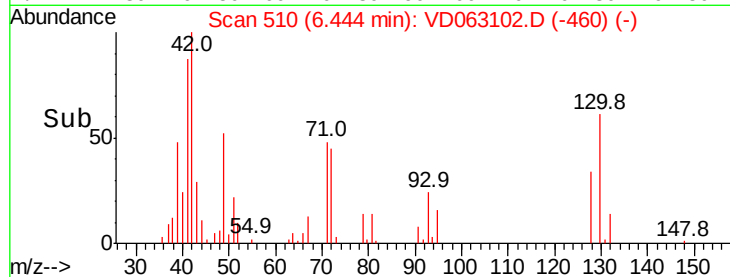
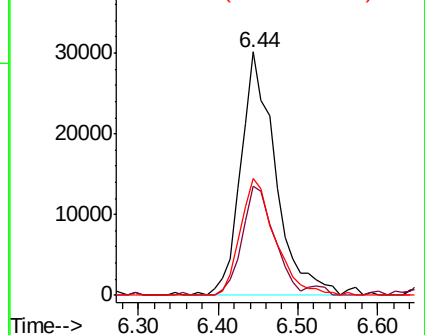
42 100

72 41.8 33.7 50.5

71 48.4 34.2 51.2



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: 21.026 ug/l

RT: 6.65 min Scan# 531

Delta R.T. 0.00 min

Lab File: VD063102.D

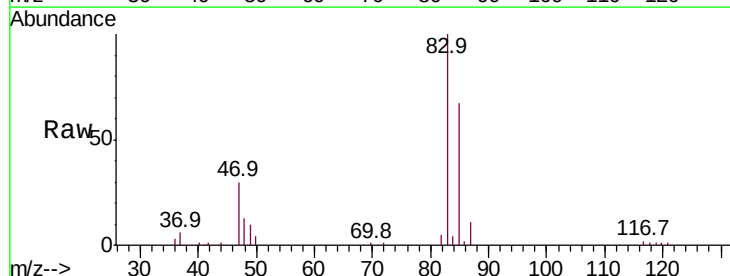
Acq: 16 Jul 2019 13:16

Tgt Ion: 83 Resp: 349349

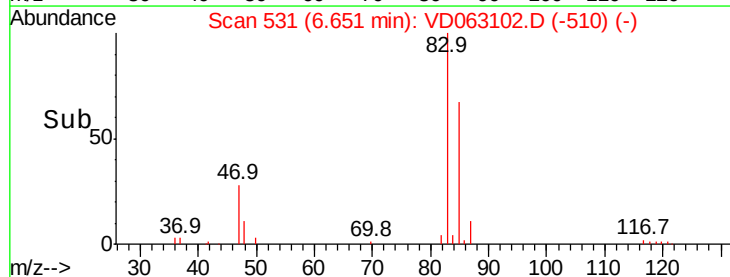
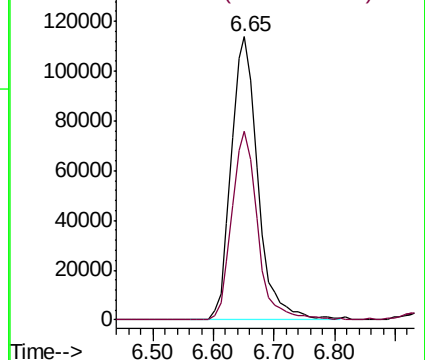
Ion Ratio Lower Upper

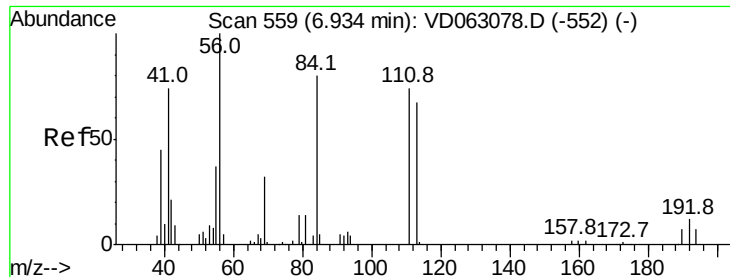
83 100

85 66.9 53.8 80.8



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

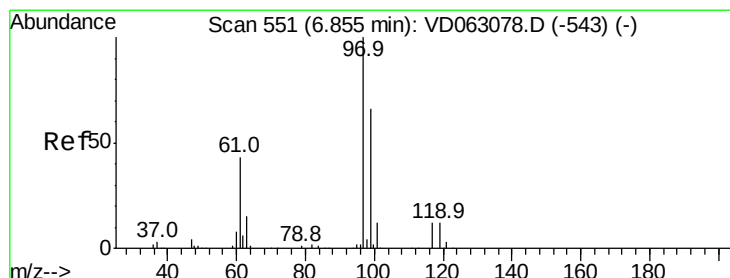
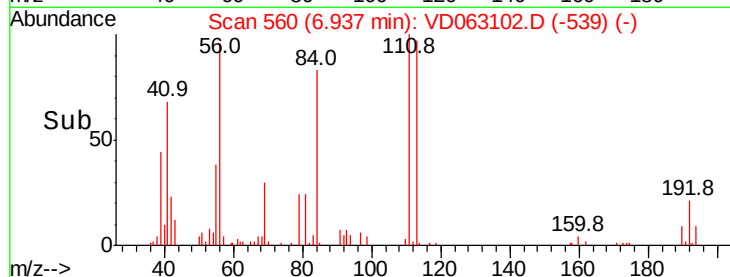
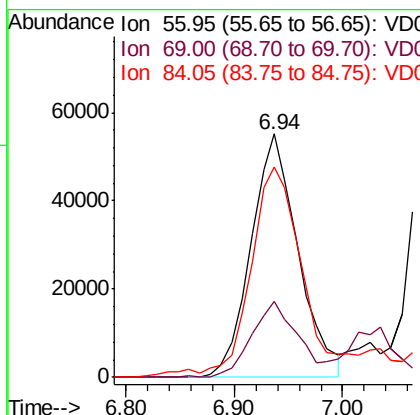
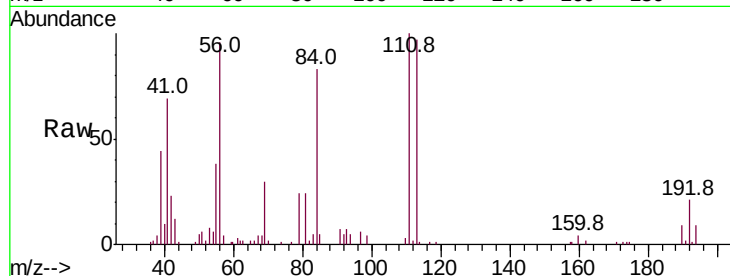




#31
Cyclohexane
Concen: 19.366 ug/l
RT: 6.94 min Scan# 560
Delta R.T. 0.00 min
Lab File: VD063102.D
Acq: 16 Jul 2019 13:16

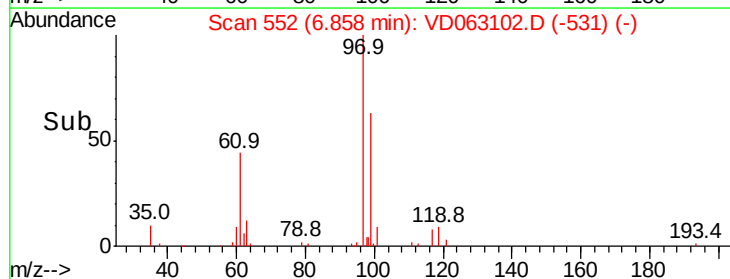
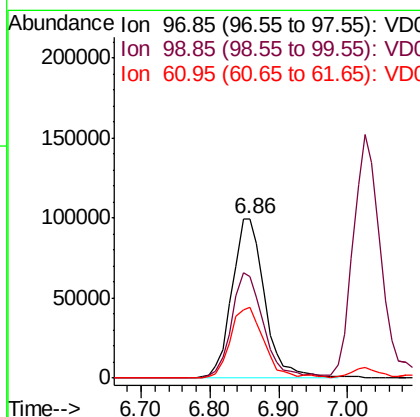
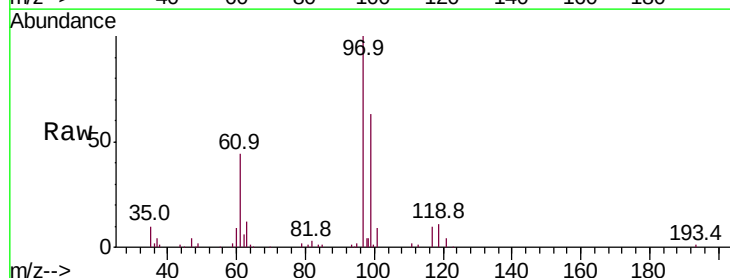
Instrument :
MSVOA_D
ClientSampleId :
VD0716SBSD02

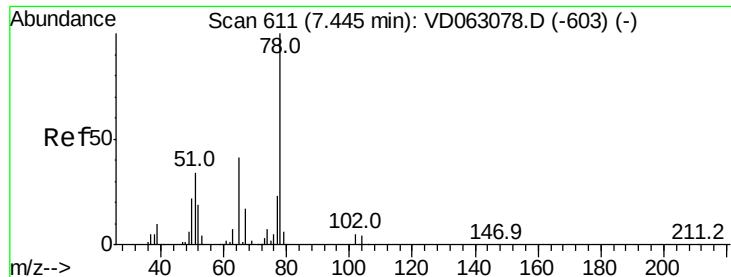
Tot Ion: 56 Resp: 166392
Ion Ratio Lower Upper
56 100
69 31.1 25.3 37.9
84 86.5 64.2 96.4



#32
1,1,1-Trichloroethane
Concen: 19.903 ug/l
RT: 6.86 min Scan# 552
Delta R.T. 0.00 min
Lab File: VD063102.D
Acq: 16 Jul 2019 13:16

Tgt Ion: 97 Resp: 326101
Ion Ratio Lower Upper
97 100
99 63.4 52.9 79.3
61 44.4 34.4 51.6

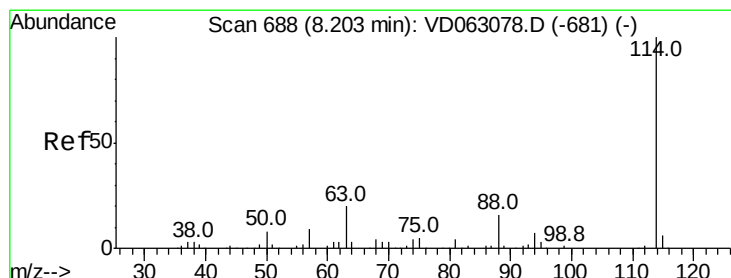
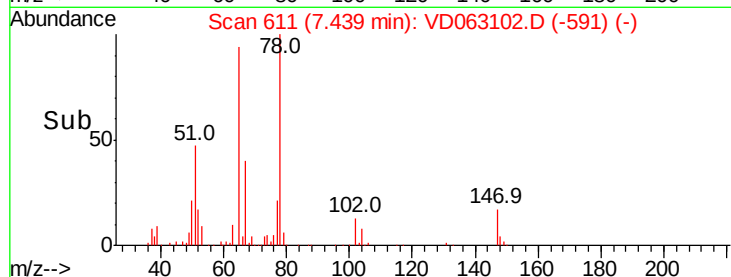
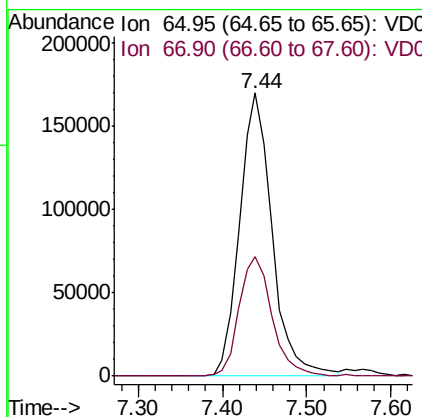
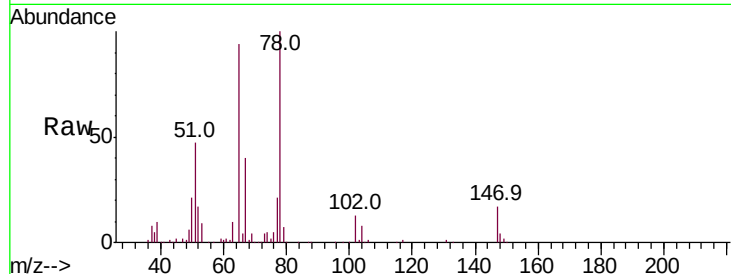




#33
 1,2-Dichloroethane-d4
 Concen: 50.533 ug/l
 RT: 7.44 min Scan# 611
 Delta R.T. -0.01 min
 Lab File: VD063102.D
 Acq: 16 Jul 2019 13:16

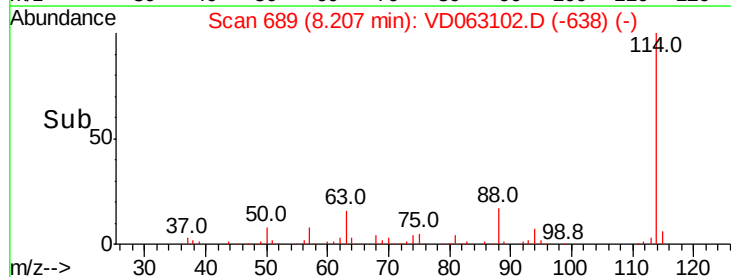
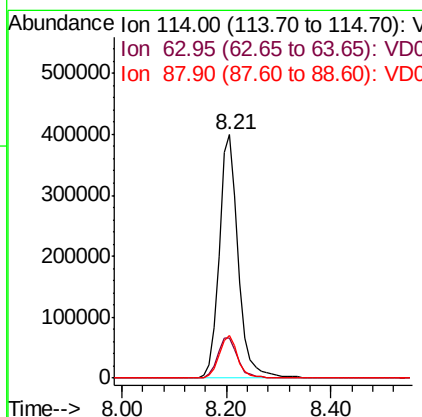
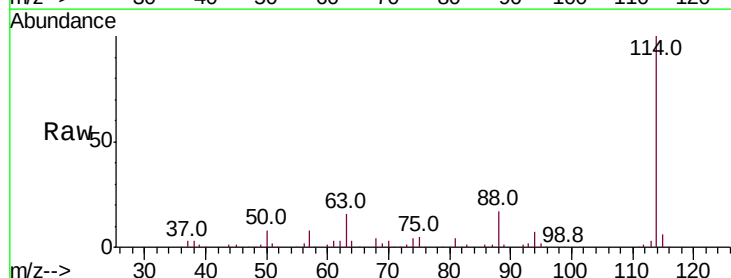
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0716SBSD02

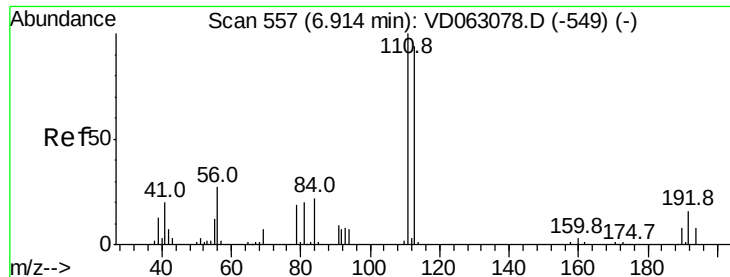
Tot Ion: 65 Resp: 456070
 Ion Ratio Lower Upper
 65 100
 67 42.1 0.0 86.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 689
 Delta R.T. 0.00 min
 Lab File: VD063102.D
 Acq: 16 Jul 2019 13:16

Tgt Ion: 114 Resp: 1000144
 Ion Ratio Lower Upper
 114 100
 63 16.4 0.0 40.6
 88 17.3 0.0 32.6

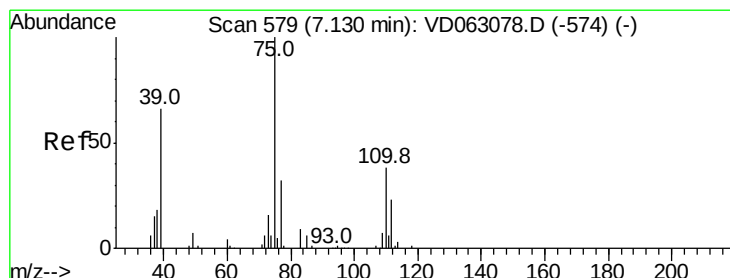
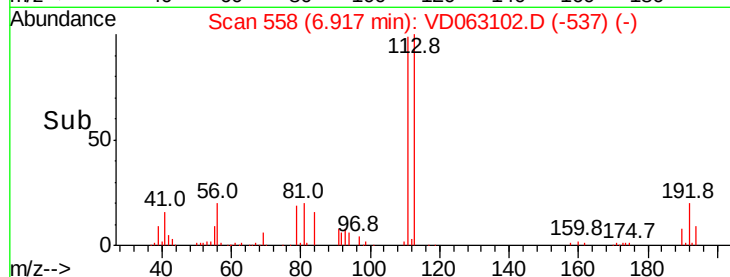
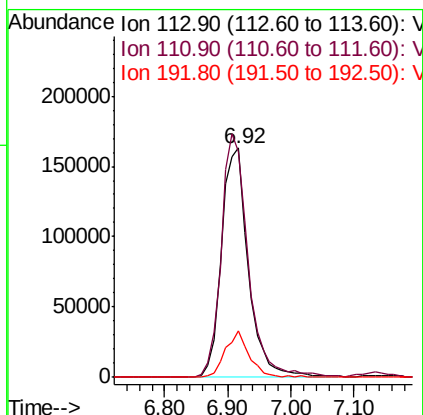
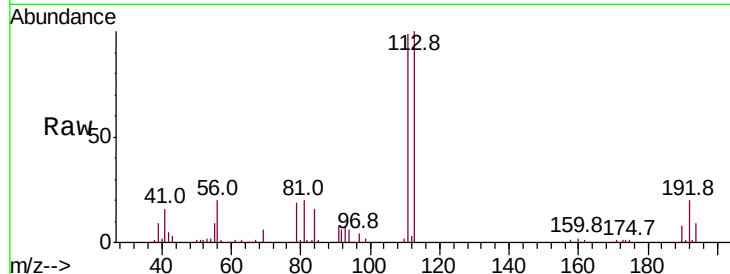




#35
 Dibromofluoromethane
 Concen: 48.659 ug/l
 RT: 6.92 min Scan# 558
 Delta R.T. 0.00 min
 Lab File: VD063102.D
 Acq: 16 Jul 2019 13:16

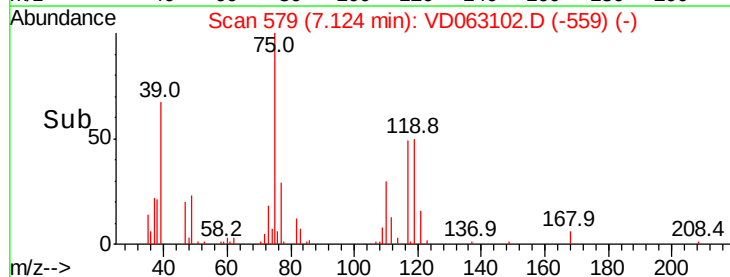
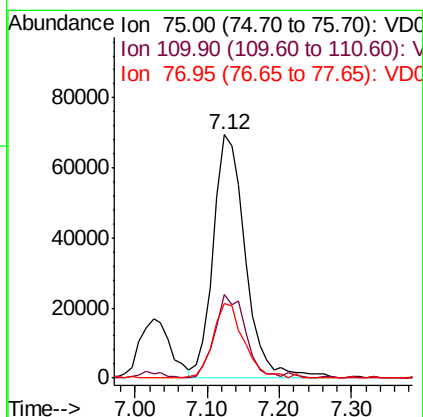
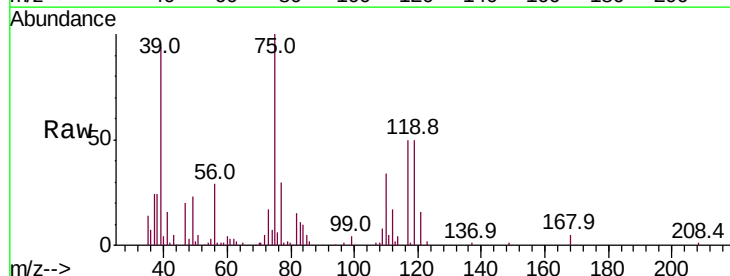
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0716SBS02

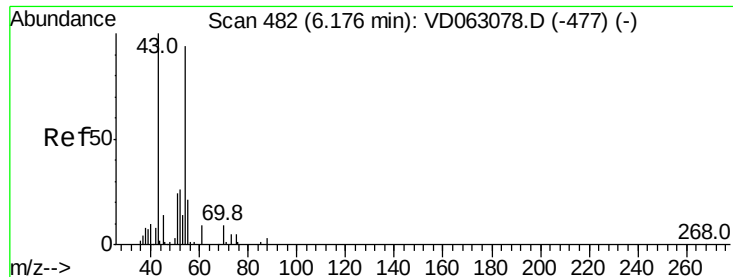
Tot Ion:113 Resp: 484723
 Ion Ratio Lower Upper
 113 100
 111 98.7 84.8 127.2
 192 20.2 13.4 20.0#



#36
 1,1-Dichloropropene
 Concen: 19.005 ug/l
 RT: 7.12 min Scan# 579
 Delta R.T. -0.01 min
 Lab File: VD063102.D
 Acq: 16 Jul 2019 13:16

Tgt Ion: 75 Resp: 213771
 Ion Ratio Lower Upper
 75 100
 110 34.3 18.9 56.5
 77 30.5 25.2 37.8

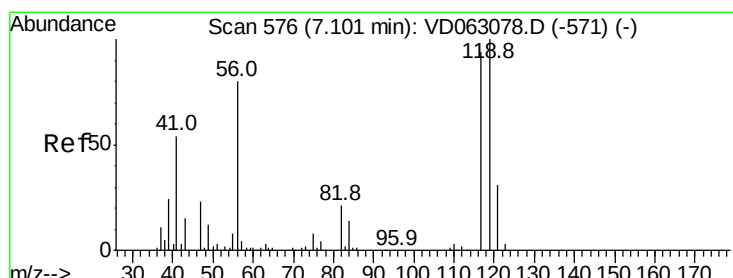
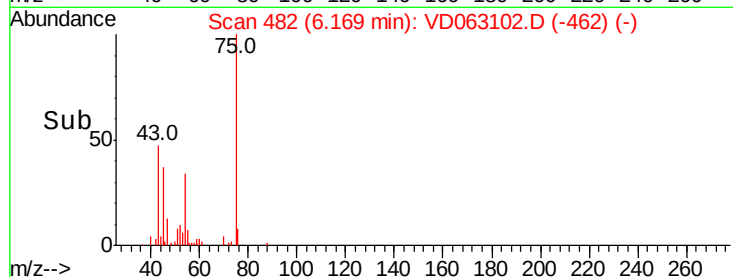
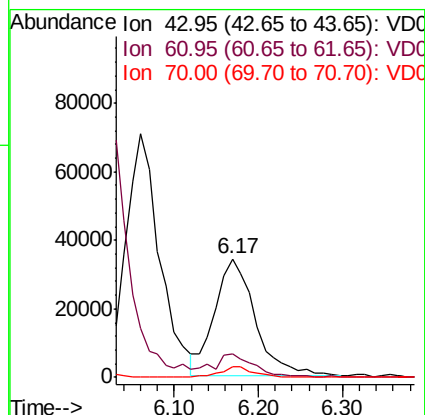
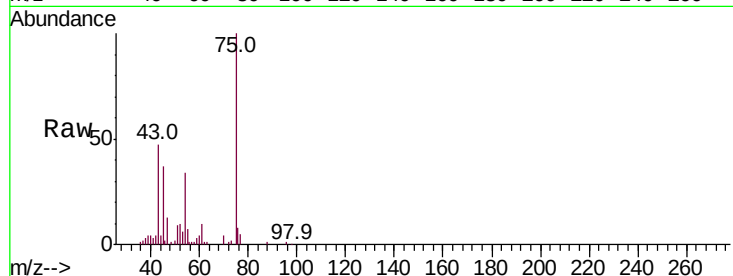




#37
Ethyl Acetate
Concen: 23.920 ug/l
RT: 6.17 min Scan# 482
Delta R.T. -0.01 min
Lab File: VD063102.D
Acq: 16 Jul 2019 13:16

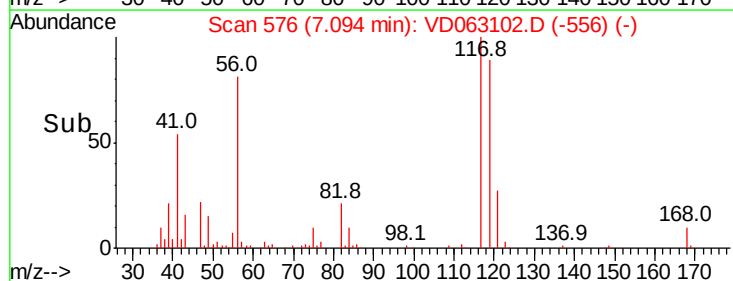
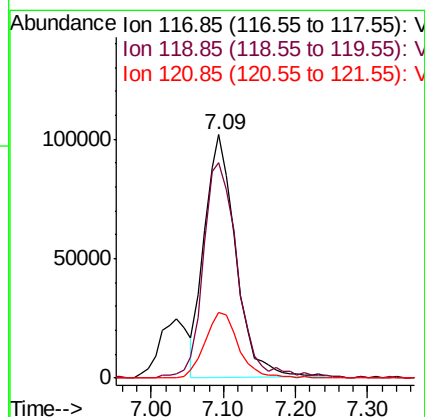
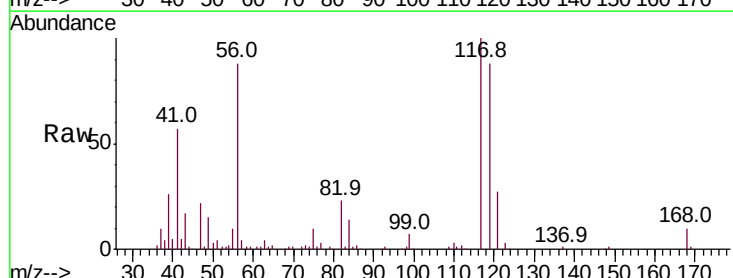
Instrument :
MSVOA_D
ClientSampleId :
VD0716SBS02

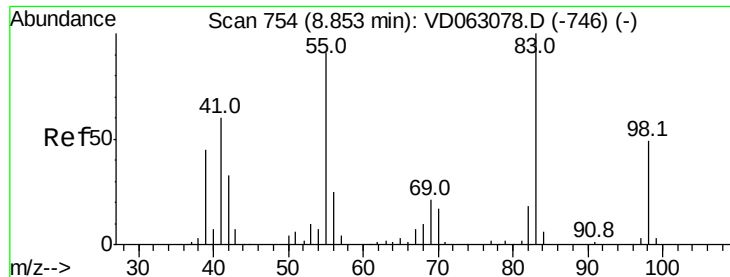
Tot Ion: 43 Resp: 115153
Ion Ratio Lower Upper
43 100
61 20.1 10.6 16.0#
70 9.3 6.6 9.8



#38
Carbon Tetrachloride
Concen: 17.753 ug/l
RT: 7.09 min Scan# 576
Delta R.T. -0.01 min
Lab File: VD063102.D
Acq: 16 Jul 2019 13:16

Tgt Ion: 117 Resp: 303445
Ion Ratio Lower Upper
117 100
119 88.4 80.0 120.0
121 27.0 25.0 37.4

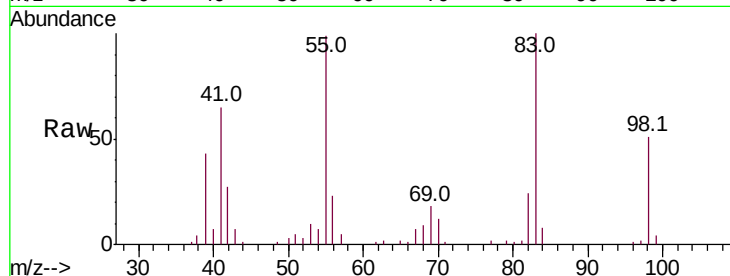




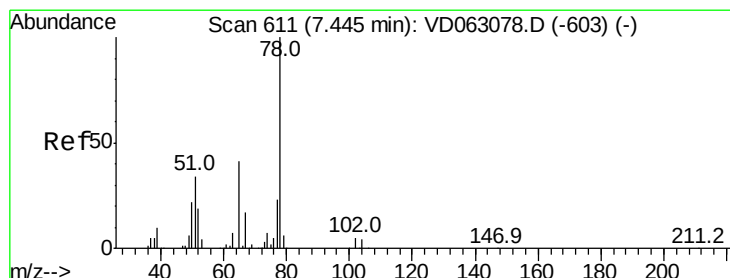
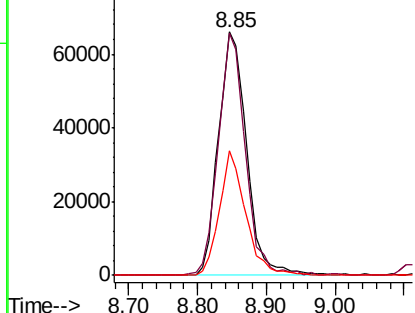
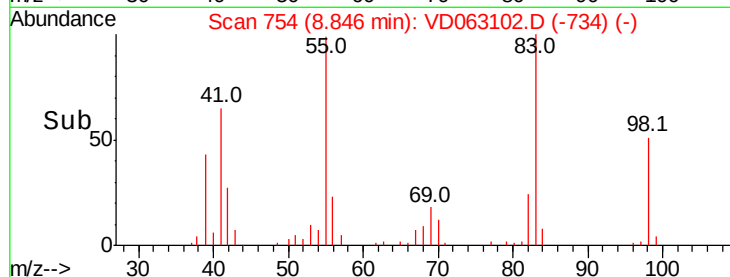
#39
Methylvlcyclohexane
Concen: 19.160 ug/l
RT: 8.85 min Scan# 754
Delta R.T. -0.01 min
Lab File: VD063102.D
Acq: 16 Jul 2019 13:16

Instrument :
MSVOA_D
ClientSampleId :
VD0716SBSD02

Tot Ion: 83 Resp: 186327
Ion Ratio Lower Upper
83 100
55 99.4 73.0 109.4
98 51.3 39.4 59.0

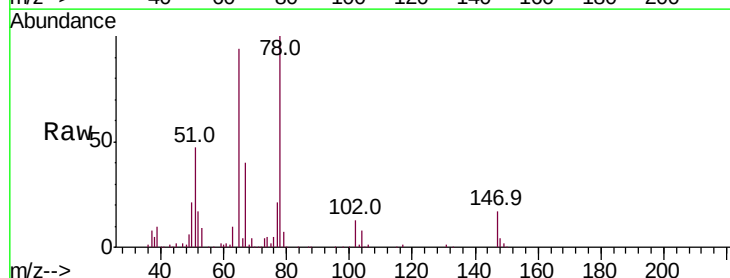


Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC

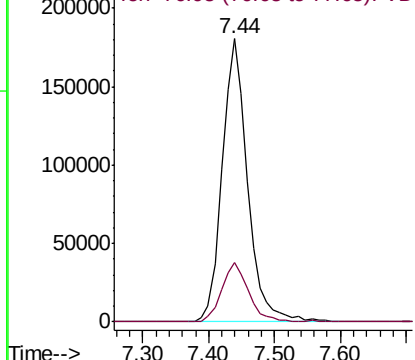
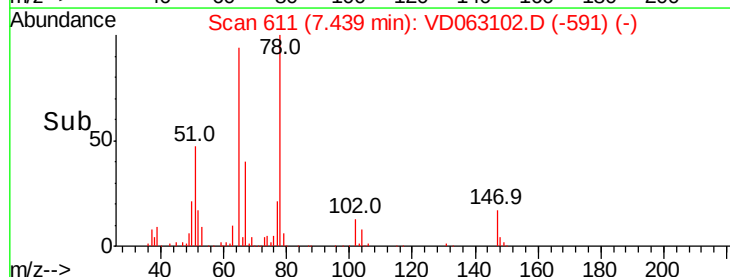


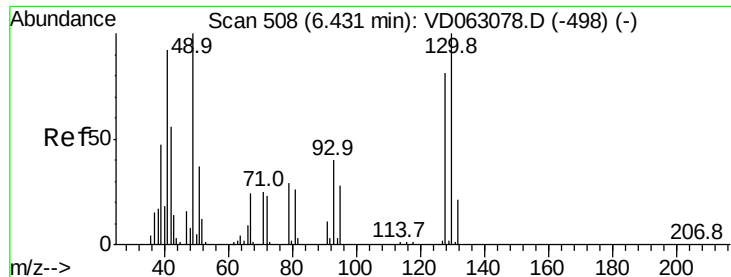
#40
Benzene
Concen: 20.685 ug/l
RT: 7.44 min Scan# 611
Delta R.T. -0.01 min
Lab File: VD063102.D
Acq: 16 Jul 2019 13:16

Tgt Ion: 78 Resp: 487325
Ion Ratio Lower Upper
78 100
77 21.2 18.1 27.1



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





#41

Methacrylonitrile

Concen: 20.189 ug/l

RT: 6.43 min Scan# 509

Delta R.T. 0.00 min

Lab File: VD063102.D

Acq: 16 Jul 2019 13:16

Instrument :

MSVOA_D

ClientSampleId :

VD0716SBSD02

Tot Ion: 41 Resp: 131767

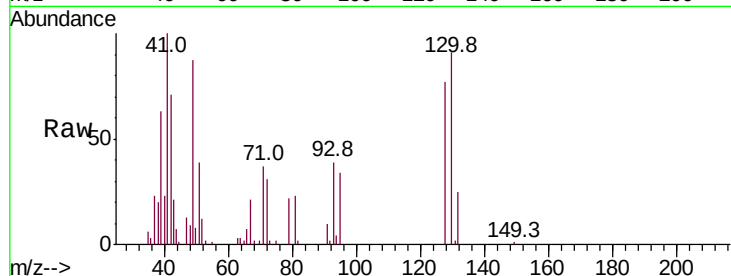
Ion Ratio Lower Upper

41 100

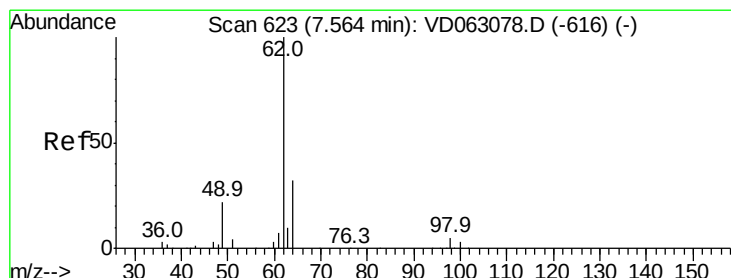
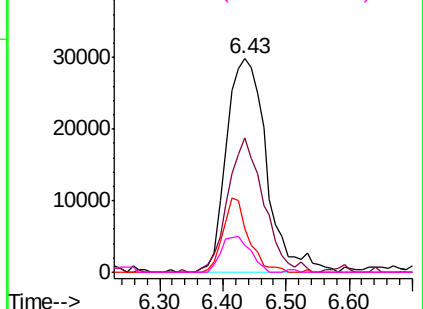
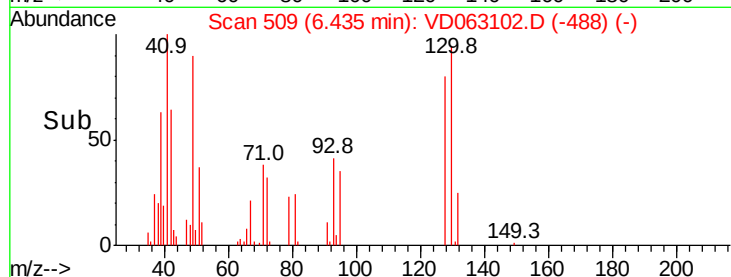
39 62.7 41.0 61.6#

67 20.5 21.3 31.9#

52 12.3 10.5 15.7



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



#42

1,2-Dichloroethane

Concen: 19.967 ug/l

RT: 7.56 min Scan# 623

Delta R.T. -0.01 min

Lab File: VD063102.D

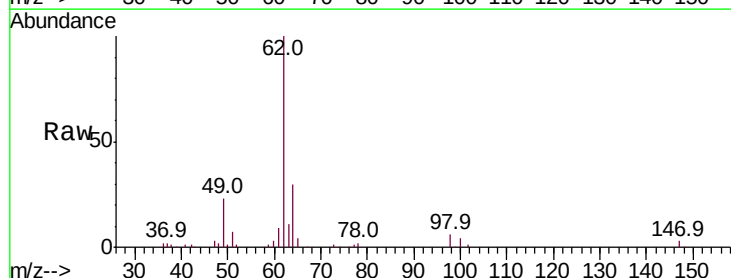
Acq: 16 Jul 2019 13:16

Tgt Ion: 62 Resp: 250616

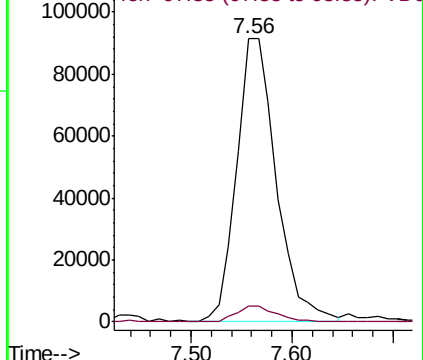
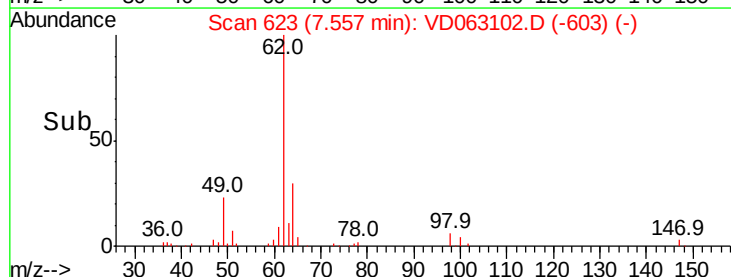
Ion Ratio Lower Upper

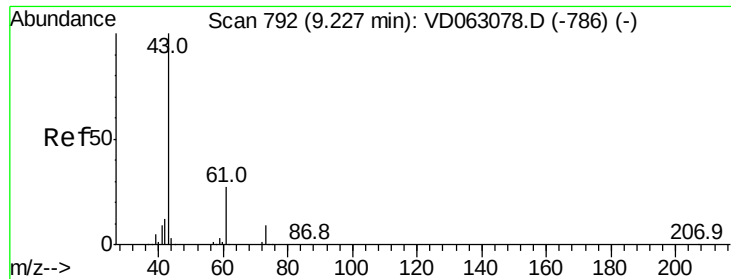
62 100

98 5.8 0.0 9.6



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

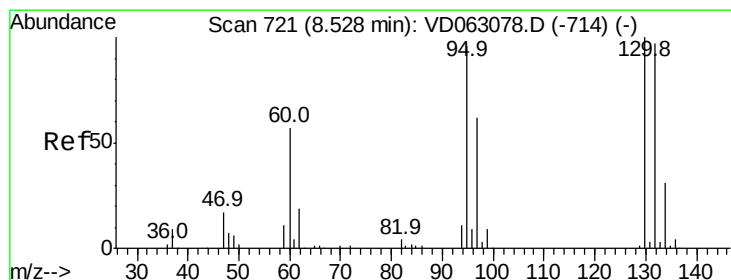
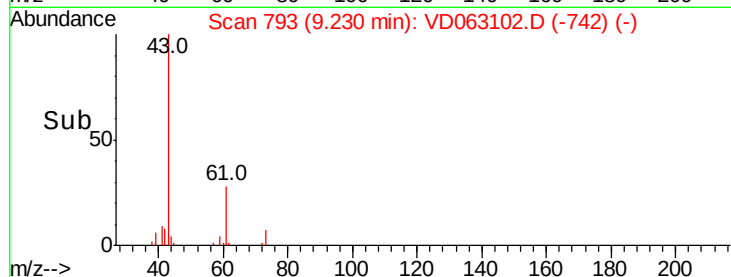
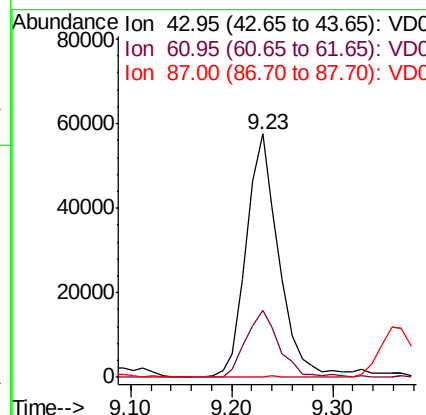
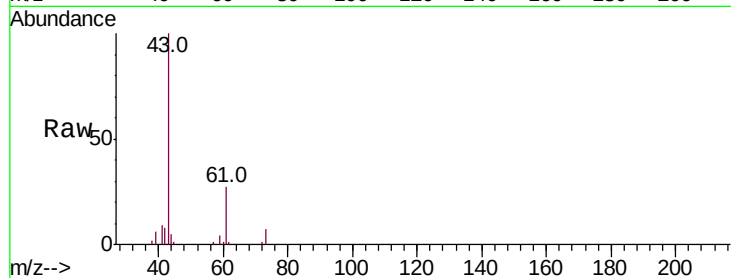




#43
Isopropyl Acetate
Concen: 18.787 ug/l
RT: 9.23 min Scan# 793
Delta R.T. 0.00 min
Lab File: VD063102.D
Acq: 16 Jul 2019 13:16

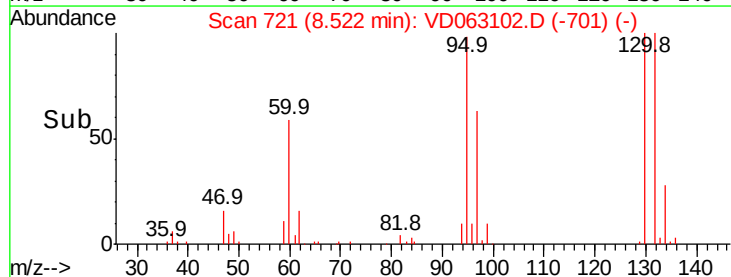
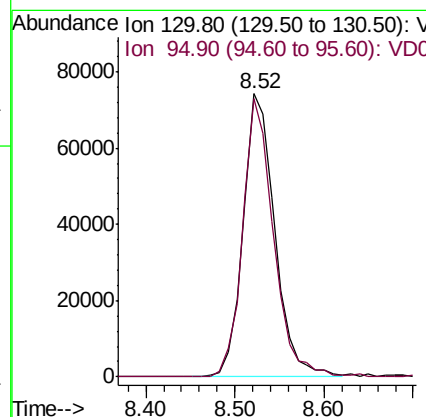
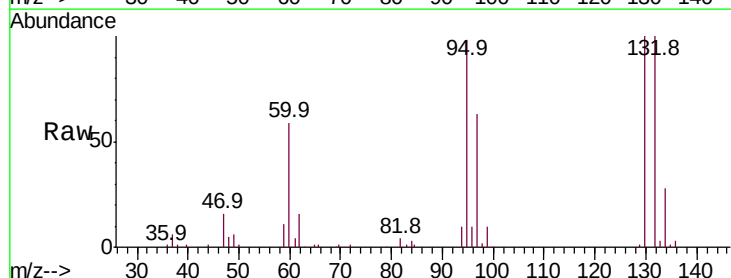
Instrument :
MSVOA_D
ClientSampleId :
VD0716SBS02

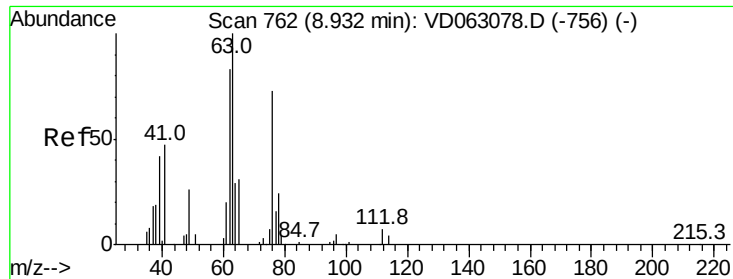
Tot Ion: 43 Resp: 129637
Ion Ratio Lower Upper
43 100
61 27.4 21.7 32.5
87 0.0 0.2 0.4#



#44
Trichloroethene
Concen: 20.089 ug/l
RT: 8.52 min Scan# 721
Delta R.T. -0.01 min
Lab File: VD063102.D
Acq: 16 Jul 2019 13:16

Tgt Ion:130 Resp: 182908
Ion Ratio Lower Upper
130 100
95 98.2 0.0 191.4





#45

1,2-Dichloropropane

Concen: 21.031 ug/l

RT: 8.93 min Scan# 762

Delta R.T. -0.01 min

Lab File: VD063102.D

Acq: 16 Jul 2019 13:16

Instrument :

MSVOA_D

ClientSampleId :

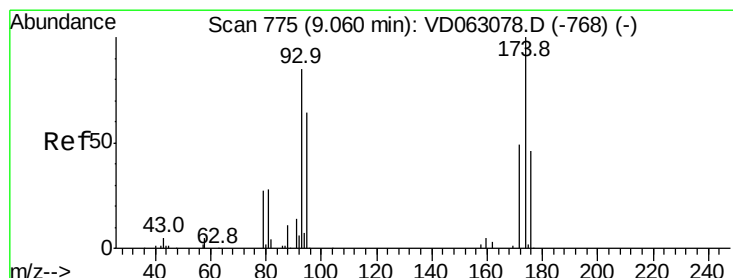
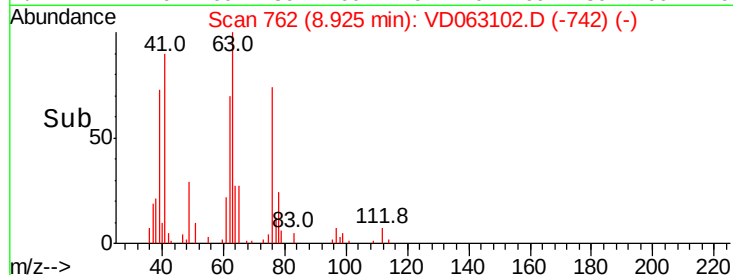
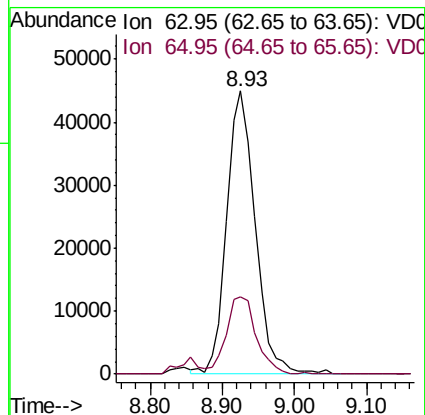
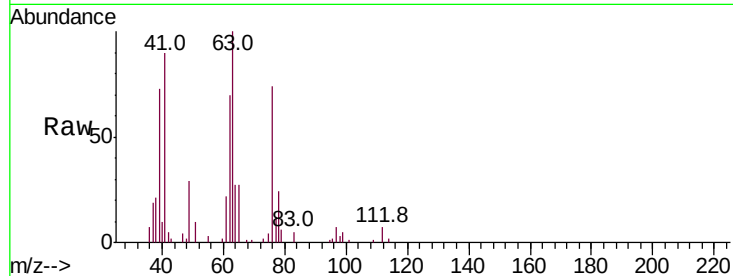
VD0716SBS02

Tot Ion: 63 Resp: 123533

Ion Ratio Lower Upper

63 100

65 27.3 26.3 39.5



#46

Dibromomethane

Concen: 20.055 ug/l

RT: 9.05 min Scan# 775

Delta R.T. -0.01 min

Lab File: VD063102.D

Acq: 16 Jul 2019 13:16

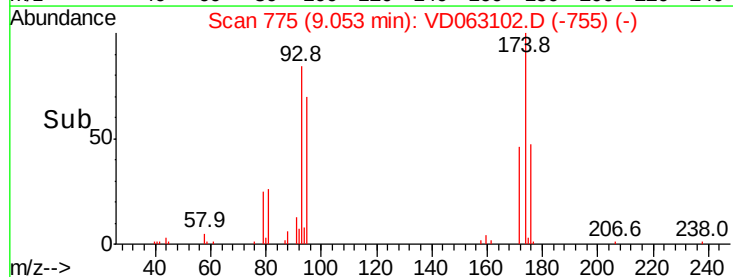
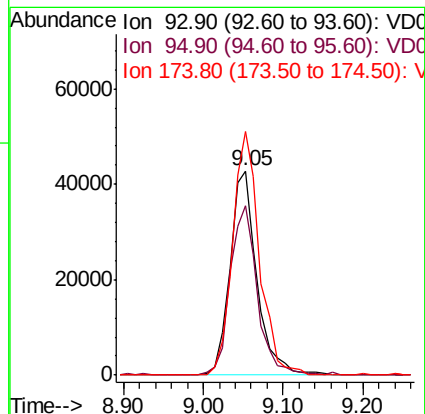
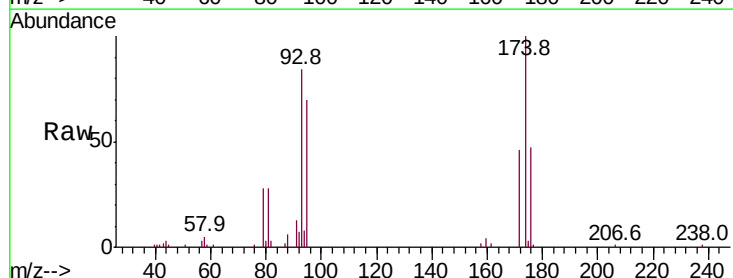
Tgt Ion: 93 Resp: 101227

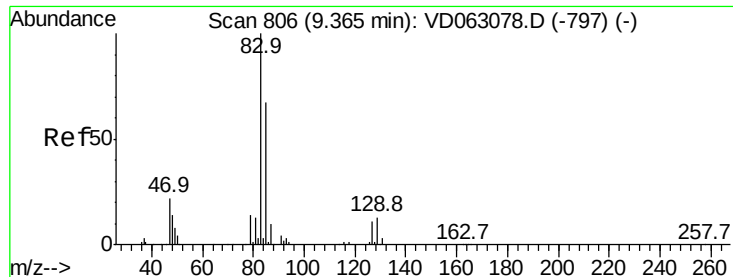
Ion Ratio Lower Upper

93 100

95 83.1 59.7 89.5

174 119.3 93.9 140.9





#47

Bromodichloromethane

Concen: 20.042 ug/l

RT: 9.36 min Scan# 806

Delta R.T. -0.01 min

Lab File: VD063102.D

Acq: 16 Jul 2019 13:16

Instrument :

MSVOA_D

ClientSampleId :

VD0716SBSD02

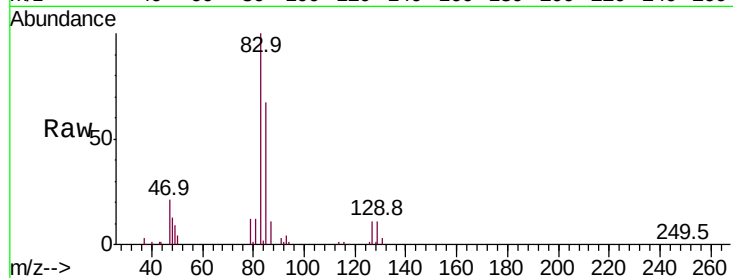
Tot Ion: 83 Resp: 263983

Ion Ratio Lower Upper

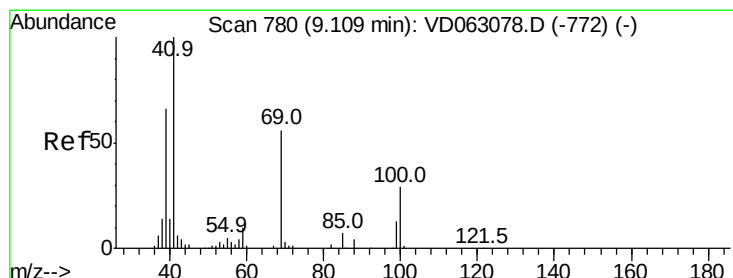
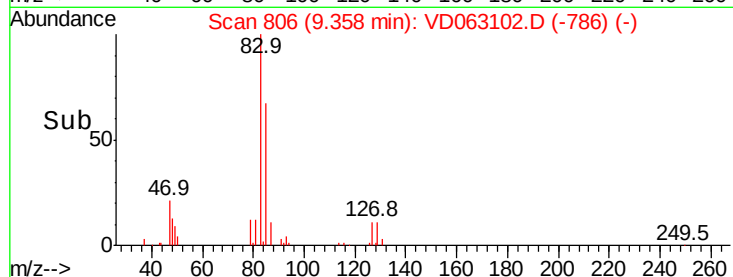
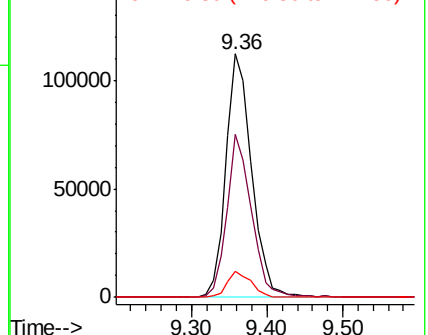
83 100

85 67.0 53.7 80.5

127 10.9 9.0 13.6



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: 20.537 ug/l

RT: 9.11 min Scan# 781

Delta R.T. 0.00 min

Lab File: VD063102.D

Acq: 16 Jul 2019 13:16

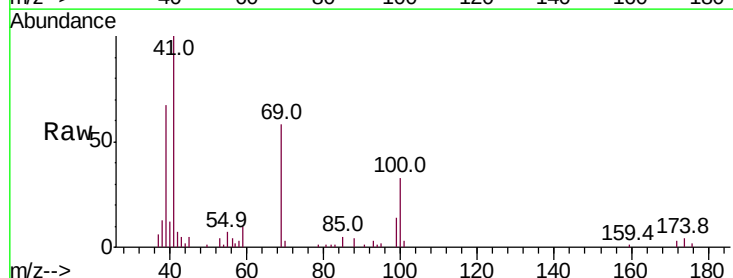
Tgt Ion: 41 Resp: 93059

Ion Ratio Lower Upper

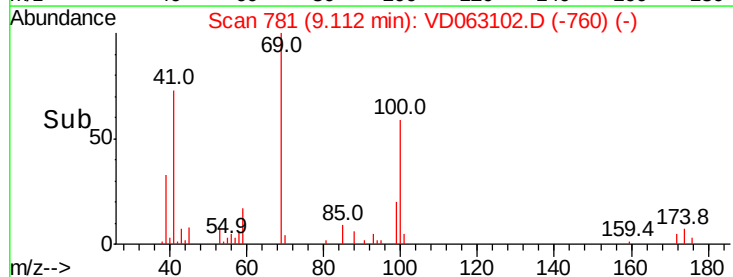
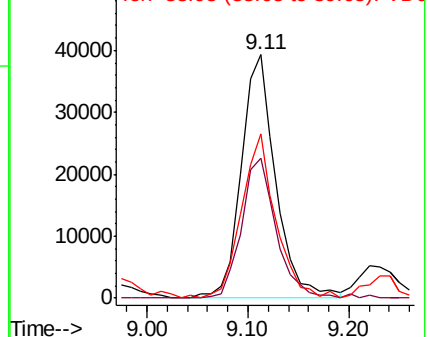
41 100

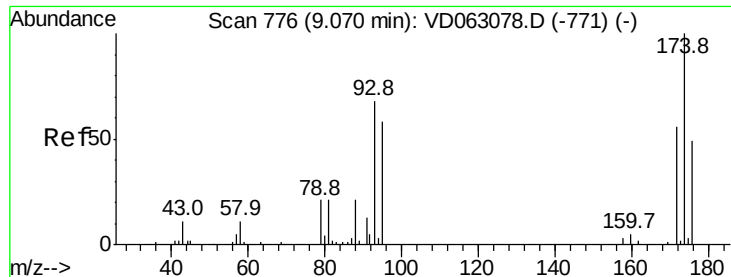
69 57.7 44.3 66.5

39 67.4 52.6 78.8



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

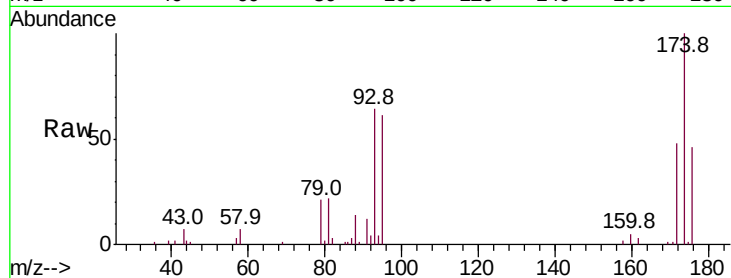




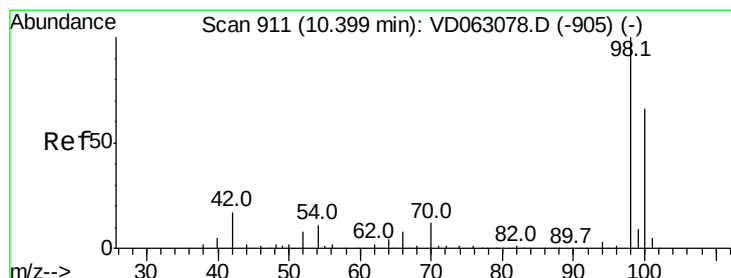
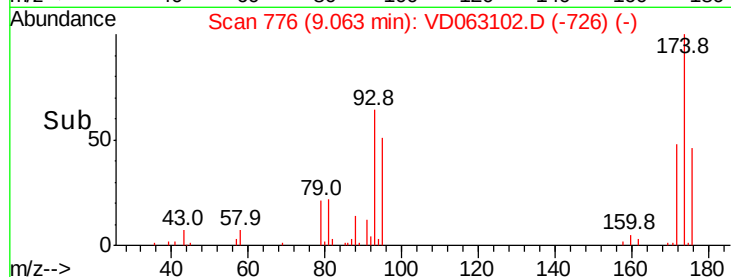
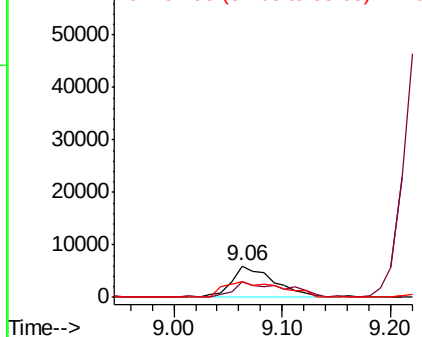
#49
1,4-Dioxane
Concen: 418.124 ug/l
RT: 9.06 min Scan# 776
Delta R.T. -0.01 min
Lab File: VD063102.D
Acq: 16 Jul 2019 13:16

Instrument :
MSVOA_D
ClientSampleId :
VD0716SBS02

Tot Ion: 88 Resp: 16340
Ion Ratio Lower Upper
88 100
43 48.3 40.2 60.4
58 51.3 41.6 62.4

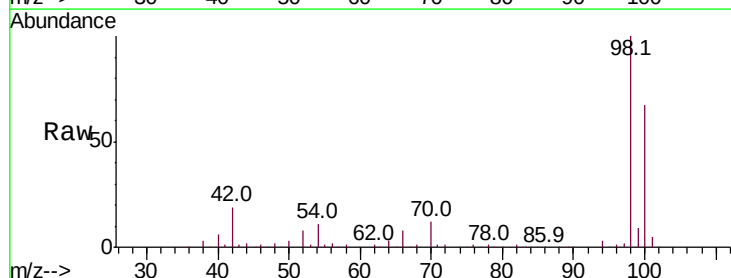


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

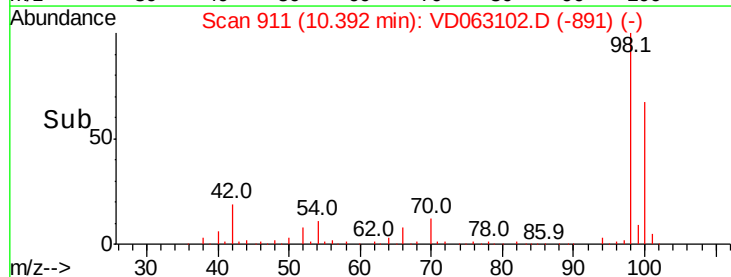
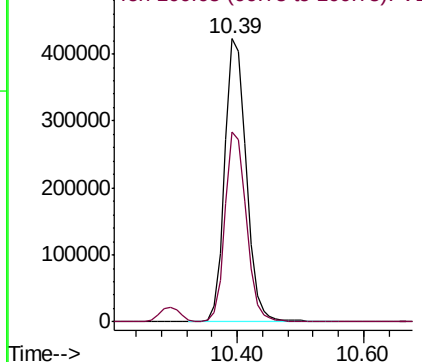


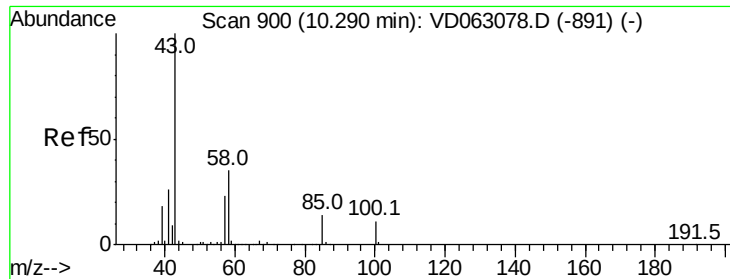
#50
Toluene-d8
Concen: 46.687 ug/l
RT: 10.39 min Scan# 911
Delta R.T. -0.01 min
Lab File: VD063102.D
Acq: 16 Jul 2019 13:16

Tgt Ion: 98 Resp: 998997
Ion Ratio Lower Upper
98 100
100 67.3 53.5 80.3



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

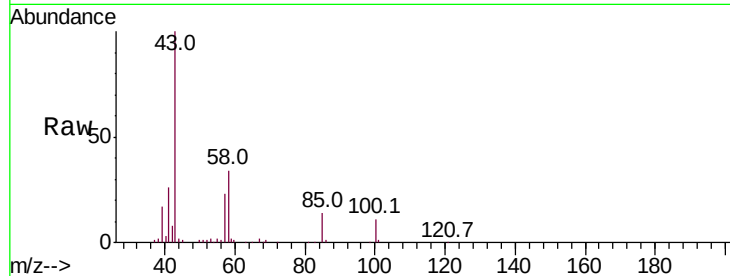




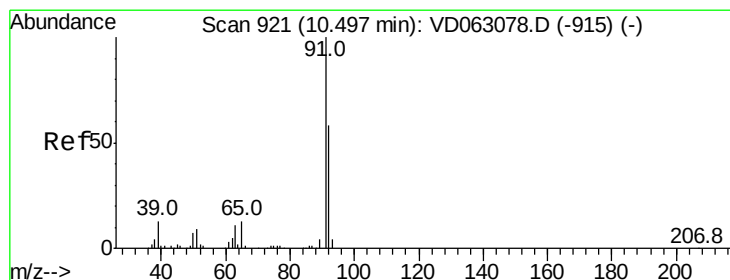
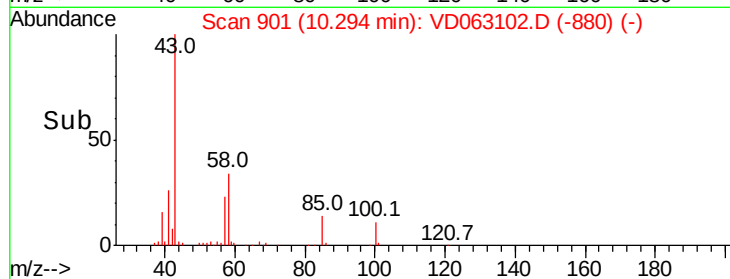
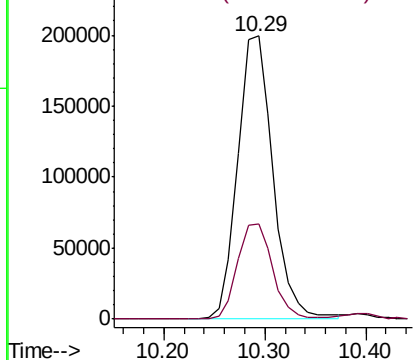
#51
4-Methyl-2-Pentanone
Concen: 105.961 ug/l
RT: 10.29 min Scan# 901
Delta R.T. 0.00 min
Lab File: VD063102.D
Acq: 16 Jul 2019 13:16

Instrument :
MSVOA_D
ClientSampleId :
VD0716SBS02

Tot Ion: 43 Resp: 484940
Ion Ratio Lower Upper
43 100
58 33.8 27.8 41.6

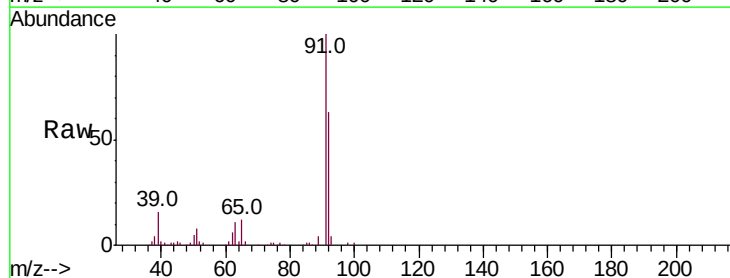


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

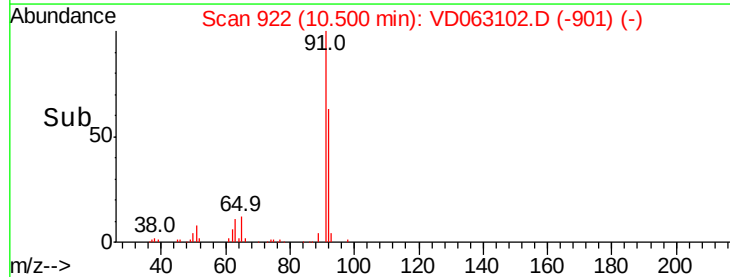
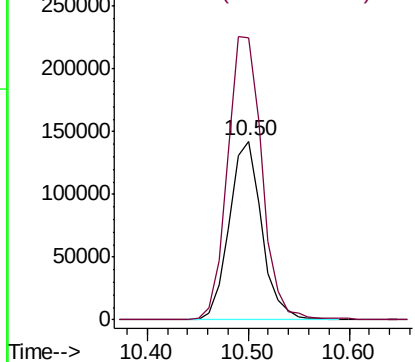


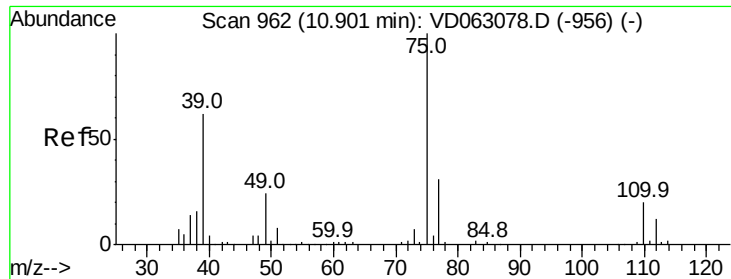
#52
Toluene
Concen: 20.206 ug/l
RT: 10.50 min Scan# 922
Delta R.T. 0.00 min
Lab File: VD063102.D
Acq: 16 Jul 2019 13:16

Tgt Ion: 92 Resp: 317884
Ion Ratio Lower Upper
92 100
91 158.4 137.9 206.9



Abundance Ion 92.00 (91.70 to 92.70): VDC
Ion 91.00 (90.70 to 91.70): VDC

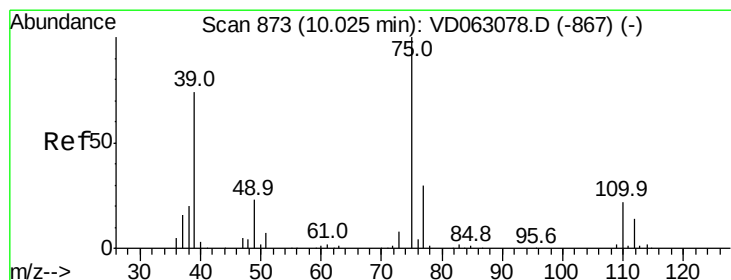
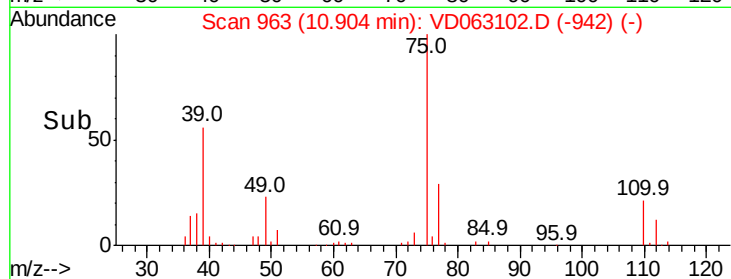
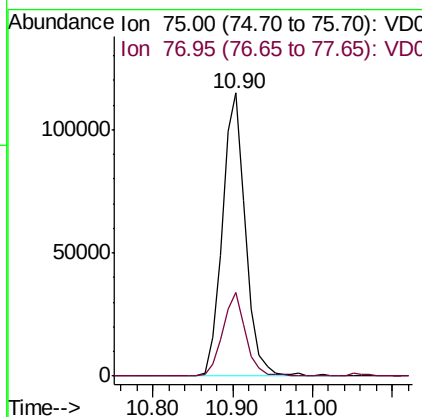
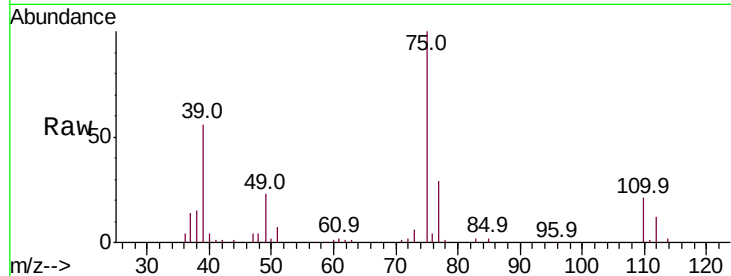




#53
 t-1,3-Dichloropropene
 Concen: 20.792 ug/l
 RT: 10.90 min Scan# 963
 Delta R.T. 0.00 min
 Lab File: VD063102.D
 Acq: 16 Jul 2019 13:16

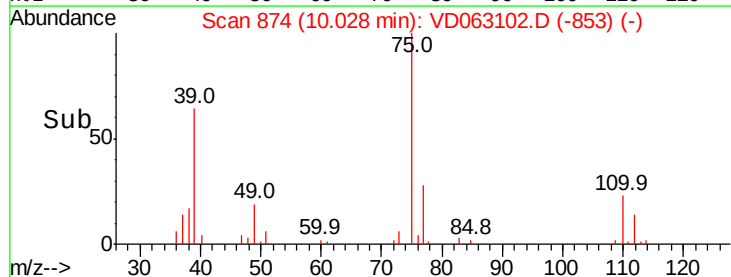
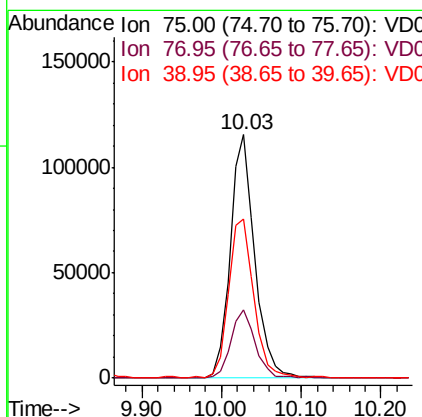
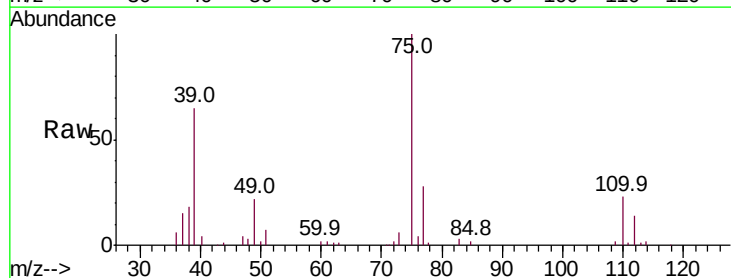
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0716SBSD02

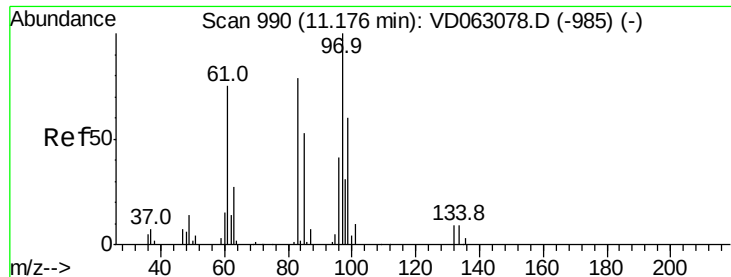
Tot Ion: 75 Resp: 234624
 Ion Ratio Lower Upper
 75 100
 77 29.4 24.9 37.3



#54
 cis-1,3-Dichloropropene
 Concen: 21.119 ug/l
 RT: 10.03 min Scan# 874
 Delta R.T. 0.00 min
 Lab File: VD063102.D
 Acq: 16 Jul 2019 13:16

Tgt Ion: 75 Resp: 246416
 Ion Ratio Lower Upper
 75 100
 77 28.2 23.9 35.9
 39 65.4 59.4 89.0

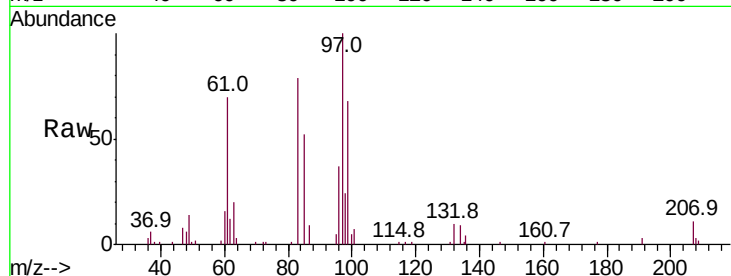




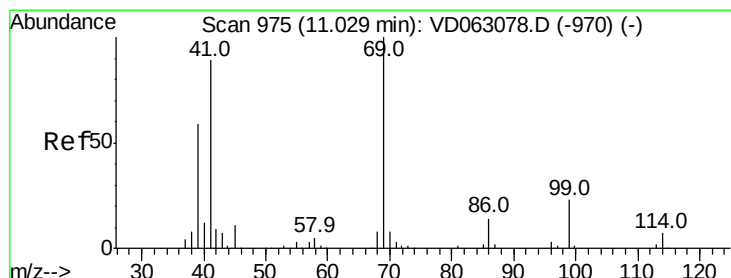
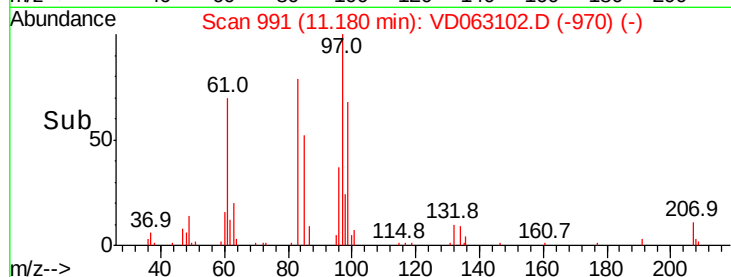
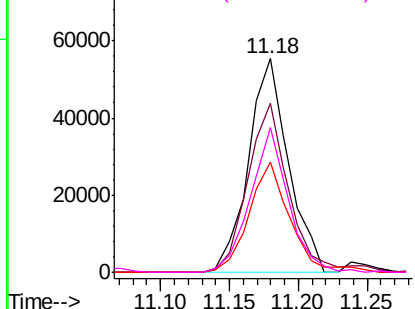
#55
 1,1,2-Trichloroethane
 Concen: 20.584 ug/l
 RT: 11.18 min Scan# 991
 Delta R.T. 0.00 min
 Lab File: VD063102.D
 Acq: 16 Jul 2019 13:16

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0716SBS02

Tot Ion:	97	Resp:	111910
Ion	Ratio	Lower	Upper
97	100		
83	78.8	63.2	94.8
85	51.7	42.0	63.0
99	68.0	48.3	72.5

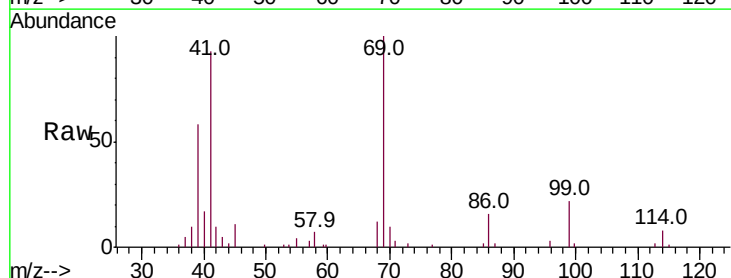


Abundance Ion 96.85 (96.55 to 97.55): VDC
 Ion 82.95 (82.65 to 83.65): VDC
 Ion 84.95 (84.65 to 85.65): VDC
 Ion 98.85 (98.55 to 99.55): VDC

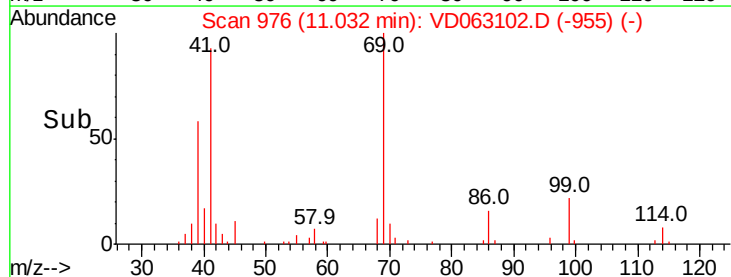
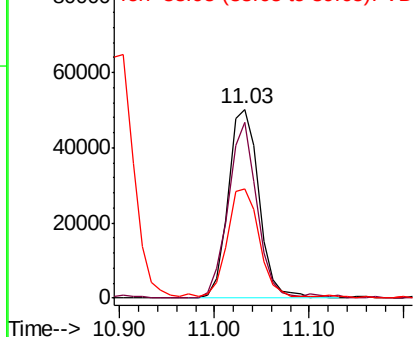


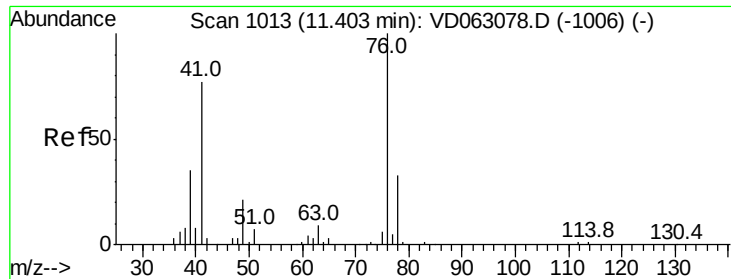
#56
 Ethyl methacrylate
 Concen: 18.501 ug/l
 RT: 11.03 min Scan# 976
 Delta R.T. 0.00 min
 Lab File: VD063102.D
 Acq: 16 Jul 2019 13:16

Tgt Ion:	69	Resp:	112385
Ion	Ratio	Lower	Upper
69	100		
41	93.3	71.0	106.4
39	58.0	47.7	71.5



Abundance Ion 69.00 (68.70 to 69.70): VDC
 Ion 41.05 (40.75 to 41.75): VDC
 Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 19.802 ug/l

RT: 11.40 min Scan# 1013

Delta R.T. -0.01 min

Lab File: VD063102.D

Acq: 16 Jul 2019 13:16

Instrument :

MSVOA_D

ClientSampleId :

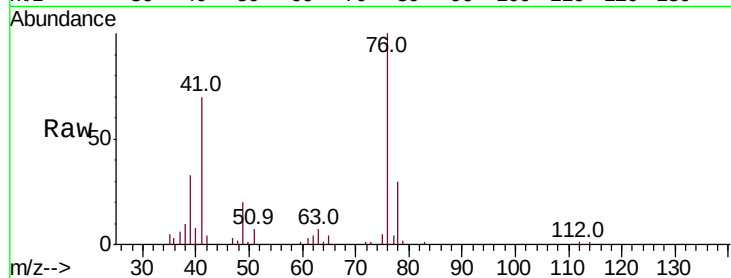
VD0716SBSD02

Tot Ion: 76 Resp: 163815

Ion Ratio Lower Upper

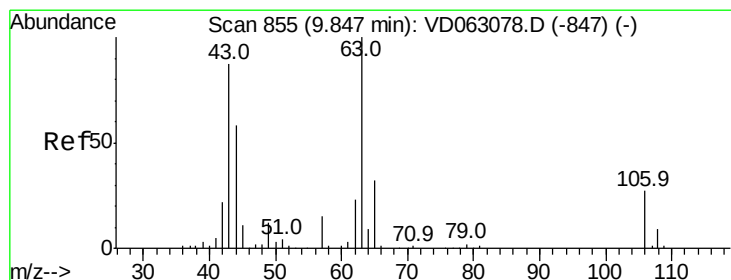
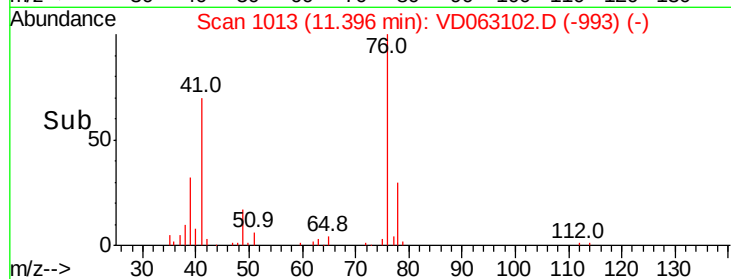
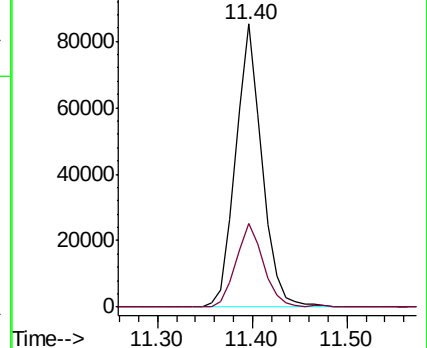
76 100

78 29.7 26.8 40.2



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 91.817 ug/l

RT: 9.84 min Scan# 855

Delta R.T. -0.01 min

Lab File: VD063102.D

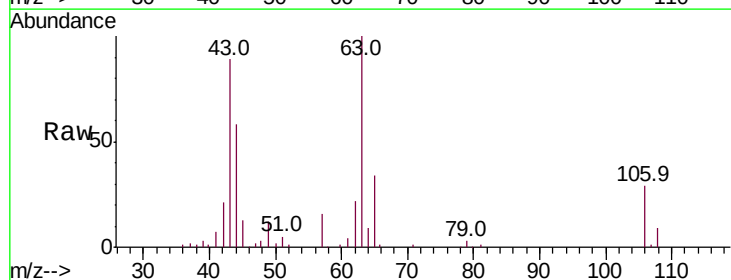
Acq: 16 Jul 2019 13:16

Tgt Ion: 63 Resp: 310550

Ion Ratio Lower Upper

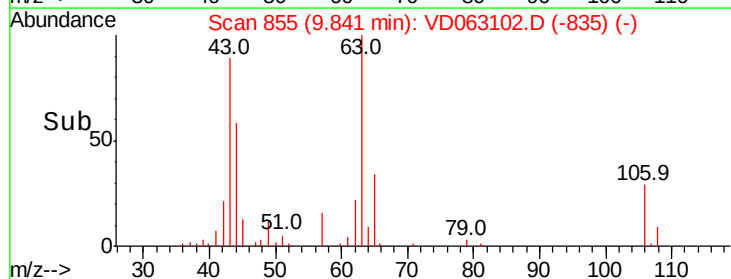
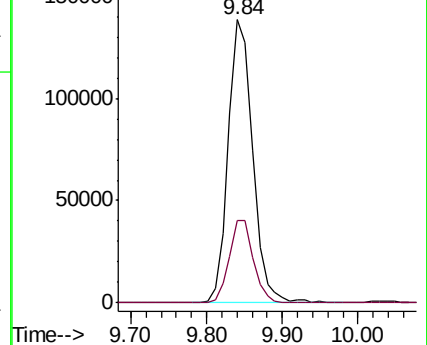
63 100

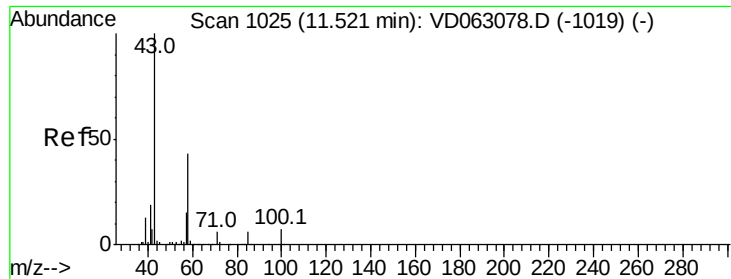
106 29.2 21.3 31.9



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

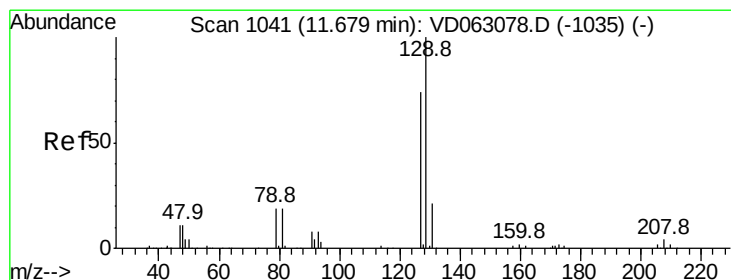
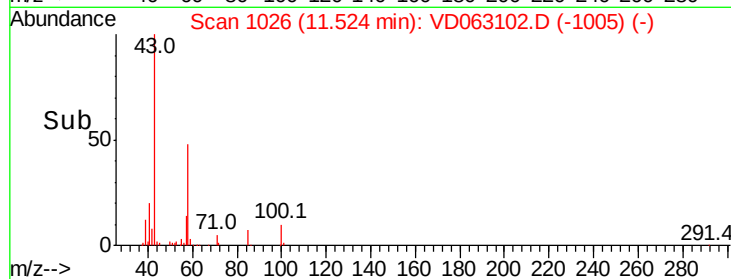
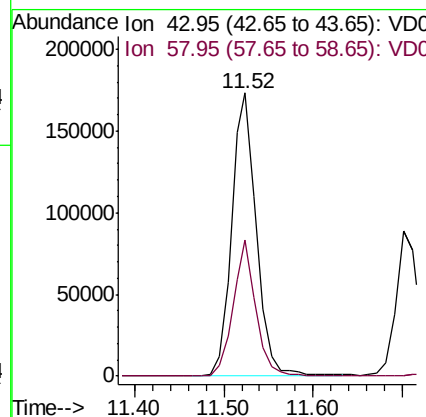
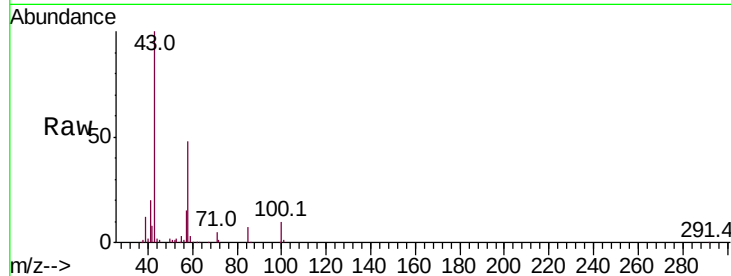




#59
2-Hexanone
Concen: 95.756 ug/l
RT: 11.52 min Scan# 1026
Delta R.T. 0.00 min
Lab File: VD063102.D
Acq: 16 Jul 2019 13:16

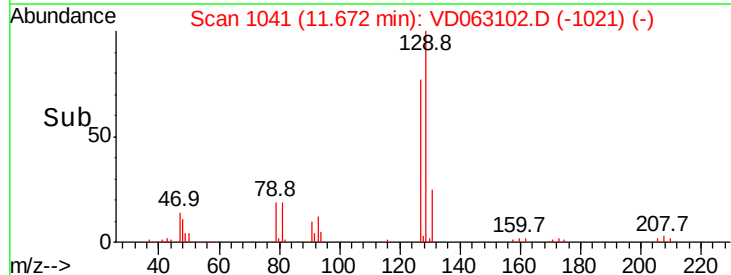
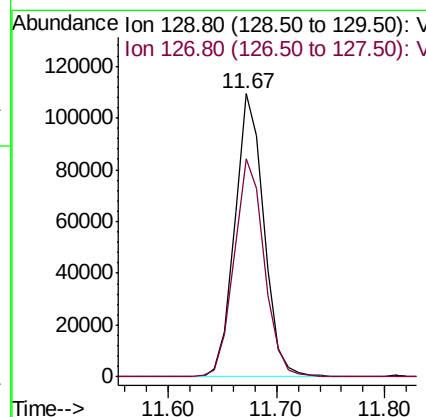
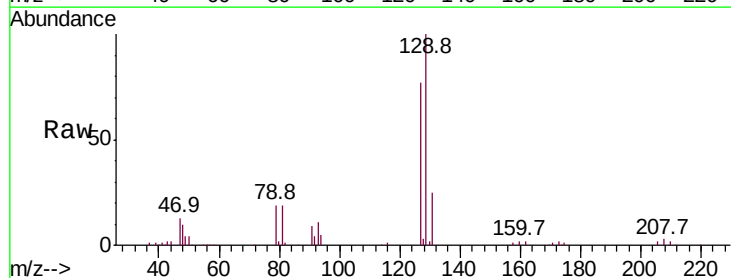
Instrument :
MSVOA_D
ClientSampleId :
VD0716SBS02

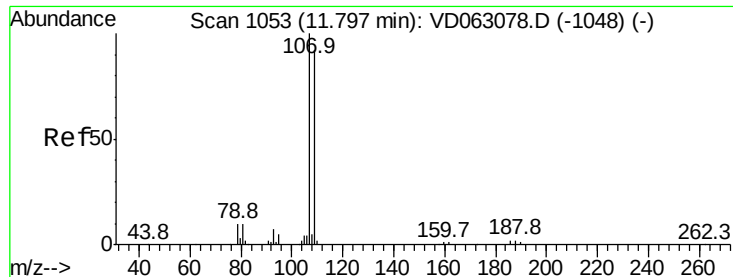
Tot Ion: 43 Resp: 337972
Ion Ratio Lower Upper
43 100
58 48.2 21.7 65.1



#60
Dibromochloromethane
Concen: 19.613 ug/l
RT: 11.67 min Scan# 1041
Delta R.T. -0.01 min
Lab File: VD063102.D
Acq: 16 Jul 2019 13:16

Tgt Ion: 129 Resp: 204393
Ion Ratio Lower Upper
129 100
127 76.9 37.0 110.9





#61

1,2-Dibromoethane

Concen: 20.402 ug/l

RT: 11.79 min Scan# 1053

Delta R.T. -0.01 min

Lab File: VD063102.D

Acq: 16 Jul 2019 13:16

Instrument :

MSVOA_D

ClientSampleId :

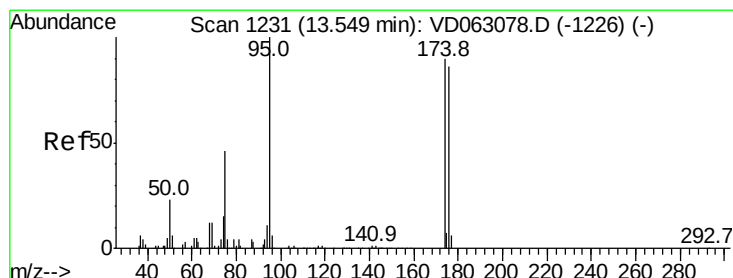
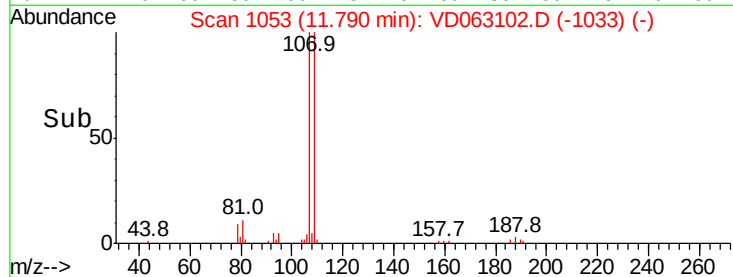
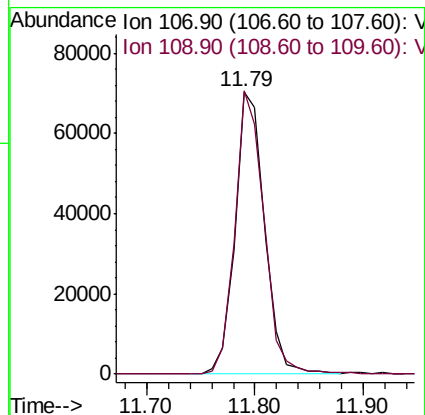
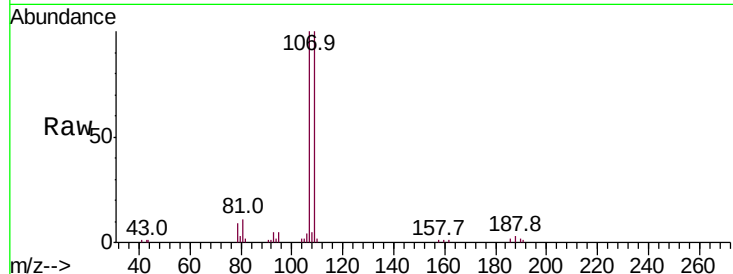
VD0716SBSD02

Tot Ion:107 Resp: 132768

Ion Ratio Lower Upper

107 100

109 100.1 73.6 110.4



#62

4-Bromofluorobenzene

Concen: 46.765 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD063102.D

Acq: 16 Jul 2019 13:16

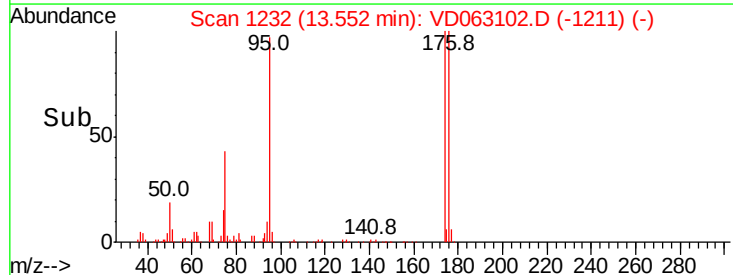
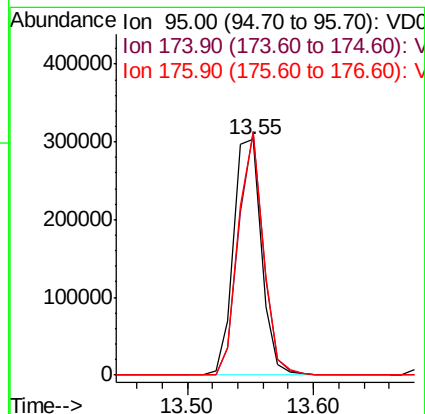
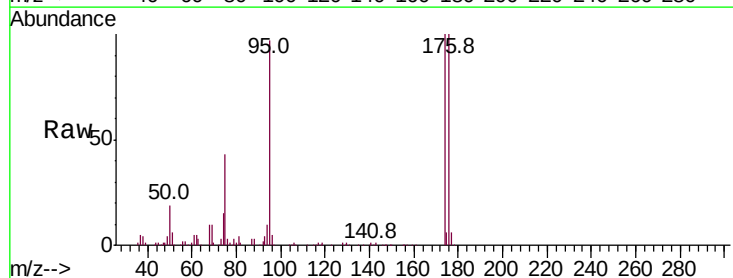
Tgt Ion: 95 Resp: 462941

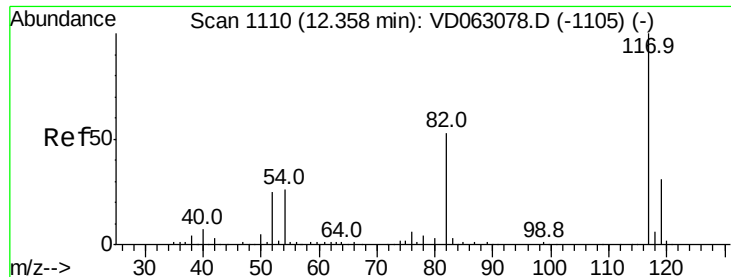
Ion Ratio Lower Upper

95 100

174 103.3 0.0 180.6

176 102.8 0.0 172.2

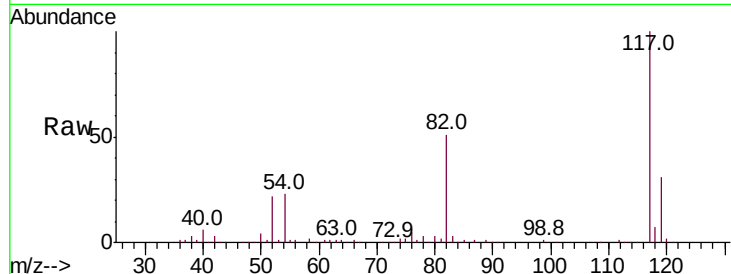




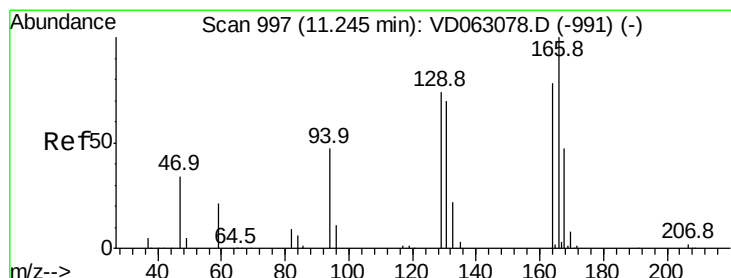
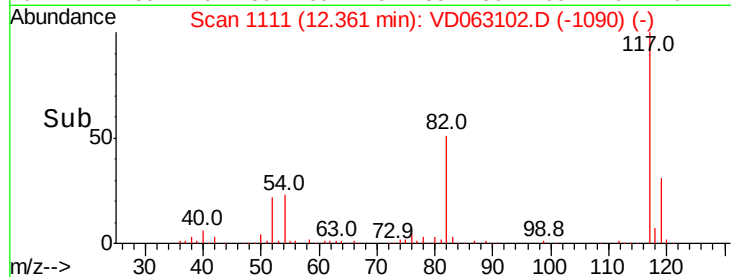
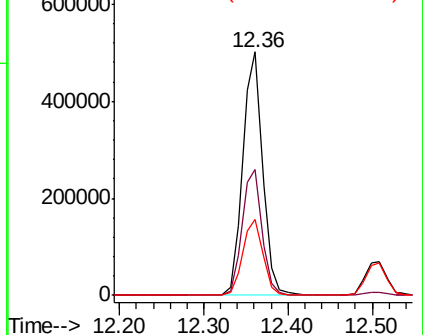
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD063102.D
Acq: 16 Jul 2019 13:16

Instrument :
MSVOA_D
ClientSampleId :
VD0716SBSD02

Tot Ion:117 Resp: 823643
Ion Ratio Lower Upper
117 100
82 51.4 42.3 63.5
119 31.4 25.2 37.8



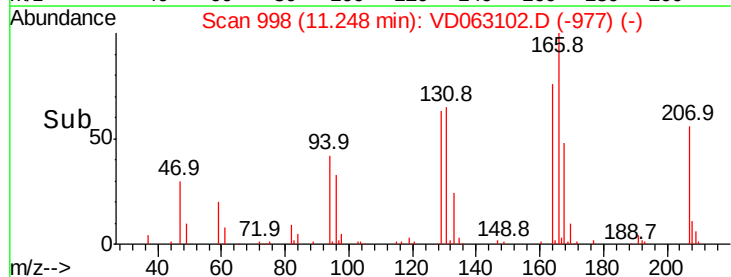
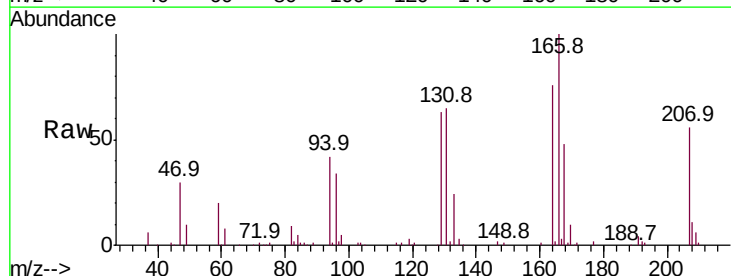
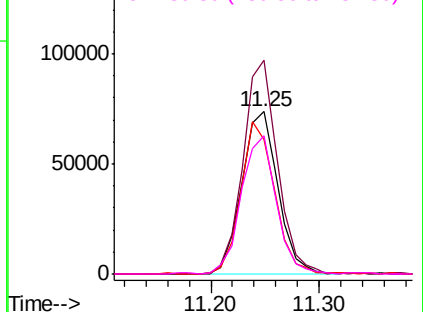
Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

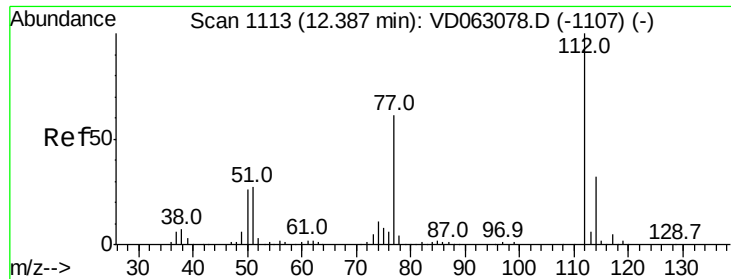


#64
Tetrachloroethene
Concen: 21.430 ug/l
RT: 11.25 min Scan# 998
Delta R.T. 0.00 min
Lab File: VD063102.D
Acq: 16 Jul 2019 13:16

Tgt Ion:164 Resp: 171274
Ion Ratio Lower Upper
164 100
166 131.6 102.8 154.2
129 82.9 76.4 114.6
131 85.2 71.7 107.5

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

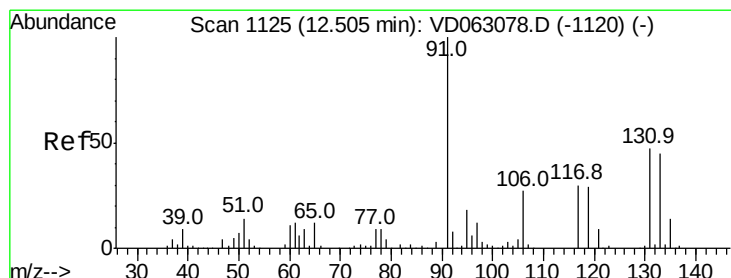
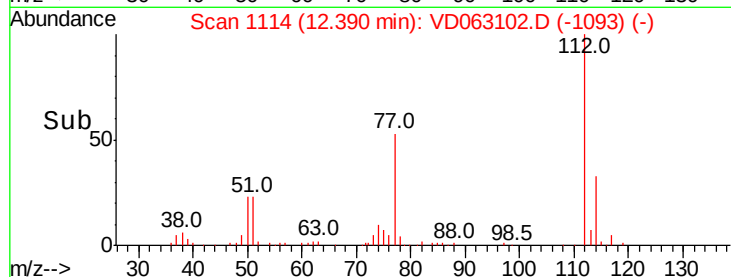
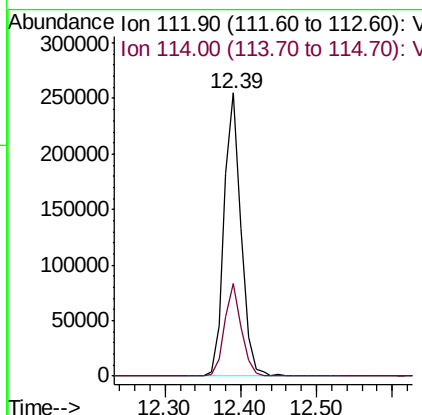
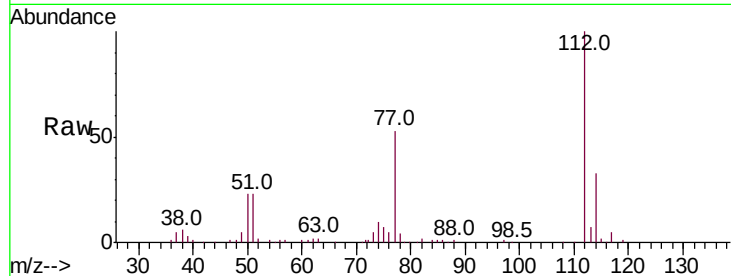




#65
Chlorobenzene
Concen: 20.468 ug/l
RT: 12.39 min Scan# 1114
Delta R.T. 0.00 min
Lab File: VD063102.D
Acq: 16 Jul 2019 13:16

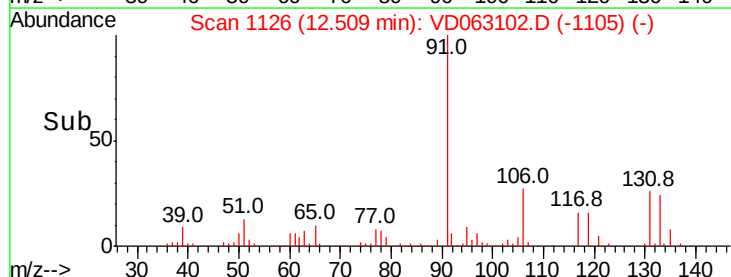
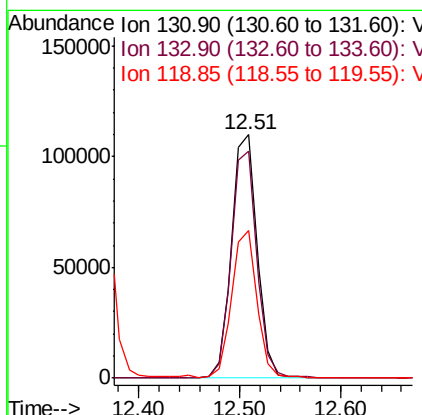
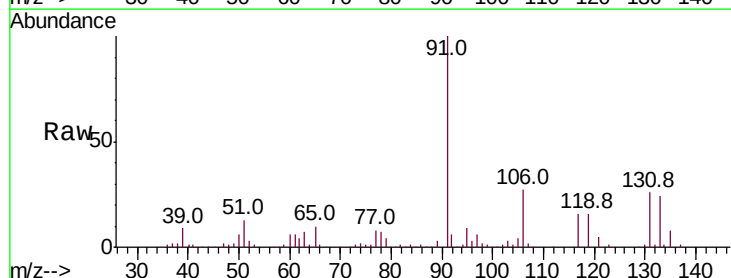
Instrument :
MSVOA_D
ClientSampleId :
VD0716SBSD02

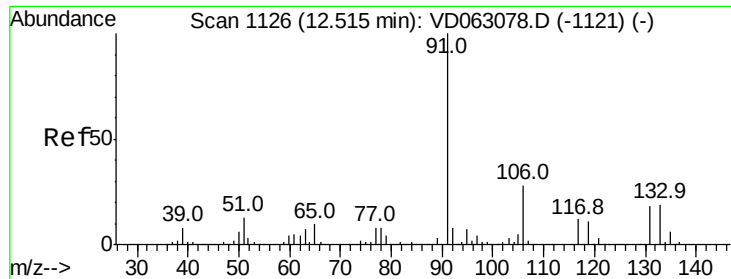
Tot Ion:112 Resp: 396294
Ion Ratio Lower Upper
112 100
114 32.7 25.9 38.9



#66
1,1,1,2-Tetrachloroethane
Concen: 21.524 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. 0.00 min
Lab File: VD063102.D
Acq: 16 Jul 2019 13:16

Tgt Ion:131 Resp: 193210
Ion Ratio Lower Upper
131 100
133 93.2 48.5 145.6
119 60.9 30.8 92.3

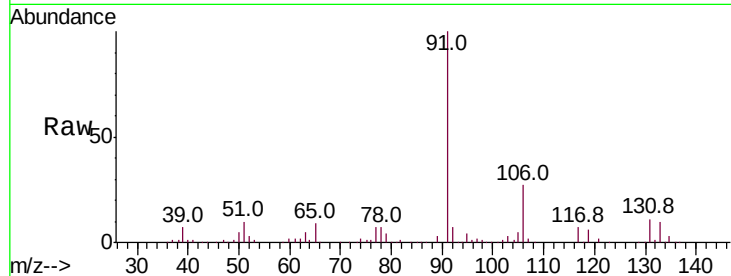




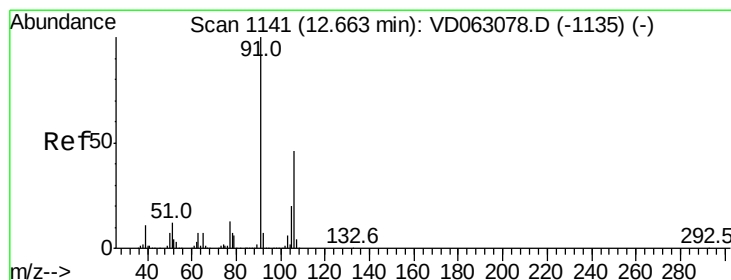
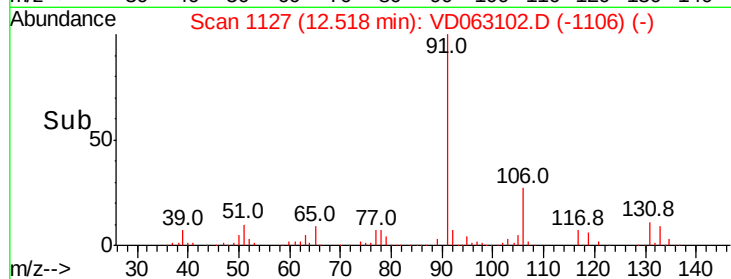
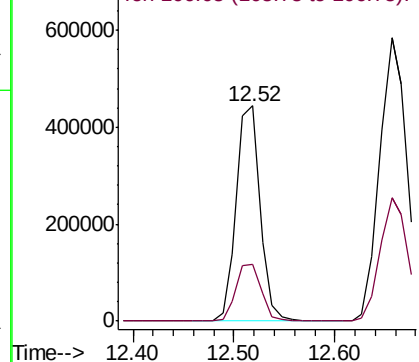
#67
Ethyl Benzene
Concen: 21.700 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. 0.00 min
Lab File: VD063102.D
Acq: 16 Jul 2019 13:16

Instrument :
MSVOA_D
ClientSampleId :
VD0716SBS02

Tot Ion: 91 Resp: 730022
Ion Ratio Lower Upper
91 100
106 26.7 22.5 33.7

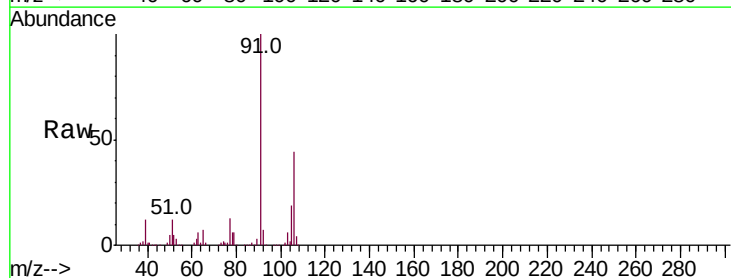


Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 106.05 (105.75 to 106.75): V

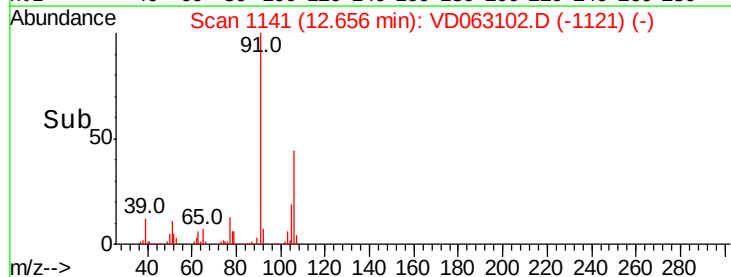
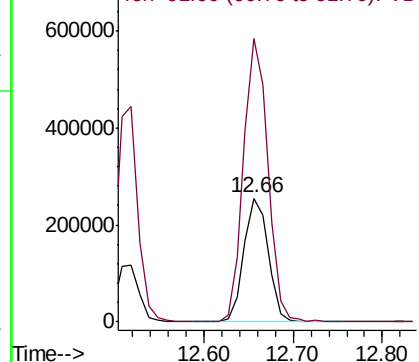


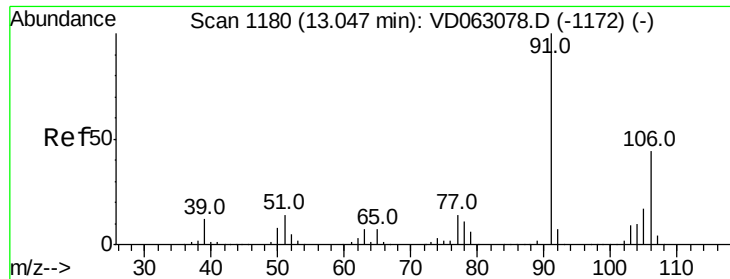
#68
m/p-Xylenes
Concen: 40.372 ug/l
RT: 12.66 min Scan# 1141
Delta R.T. -0.01 min
Lab File: VD063102.D
Acq: 16 Jul 2019 13:16

Tgt Ion: 106 Resp: 486446
Ion Ratio Lower Upper
106 100
91 229.0 173.0 259.6



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

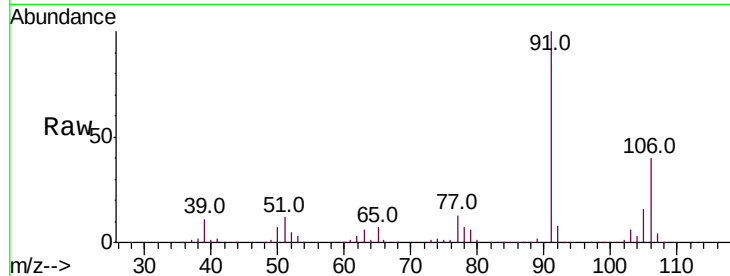




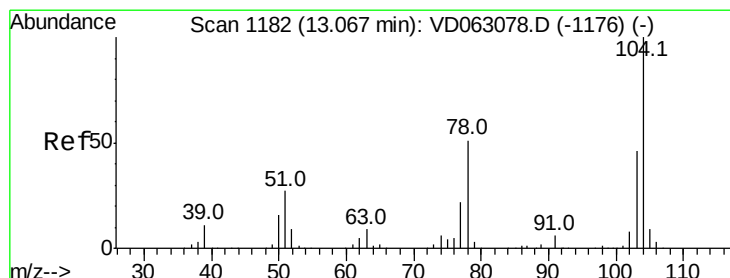
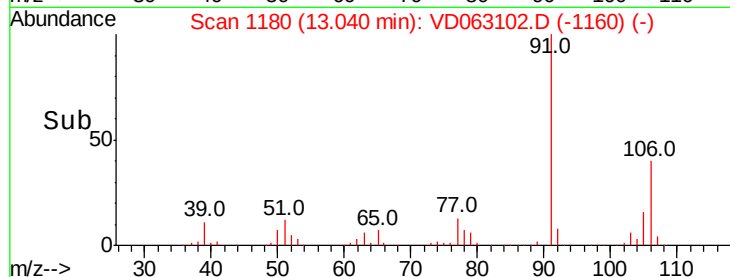
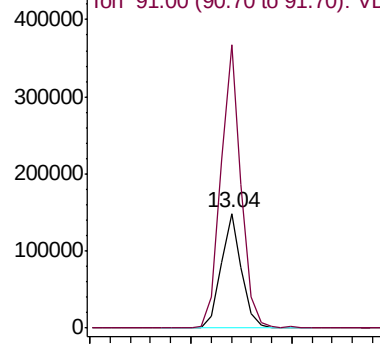
#69
o-Xylene
Concen: 18.332 ug/l
RT: 13.04 min Scan# 1180
Delta R.T. -0.01 min
Lab File: VD063102.D
Acq: 16 Jul 2019 13:16

Instrument :
MSVOA_D
ClientSampleId :
VD0716SBS02

Tot Ion:106 Resp: 209444
Ion Ratio Lower Upper
106 100
91 247.2 114.9 344.7

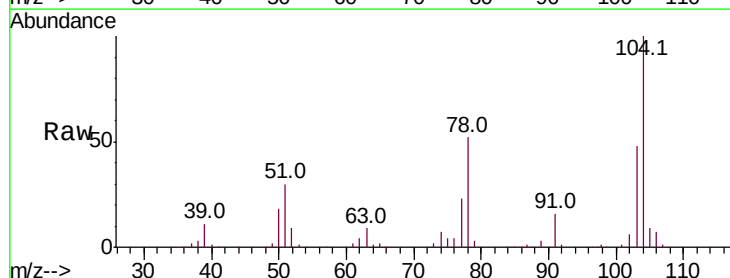


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

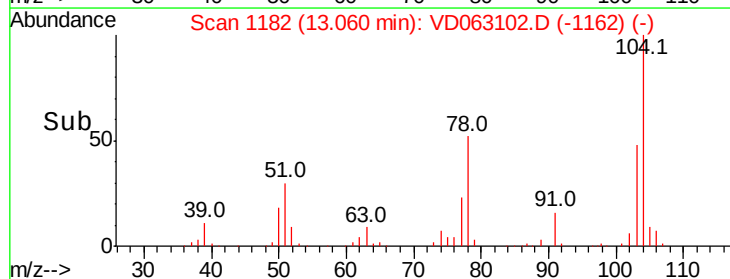
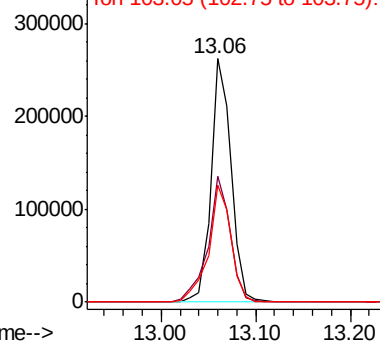


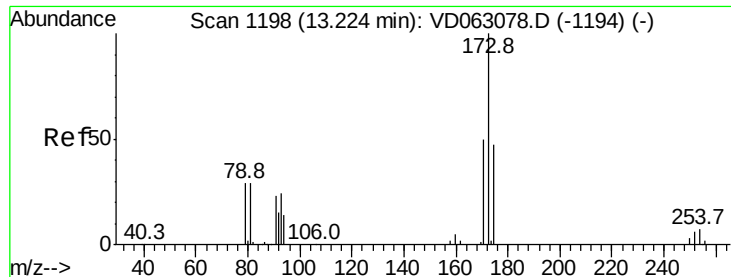
#70
Styrene
Concen: 19.261 ug/l
RT: 13.06 min Scan# 1182
Delta R.T. -0.01 min
Lab File: VD063102.D
Acq: 16 Jul 2019 13:16

Tgt Ion:104 Resp: 385200
Ion Ratio Lower Upper
104 100
78 51.7 41.1 61.7
103 48.0 37.0 55.6



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

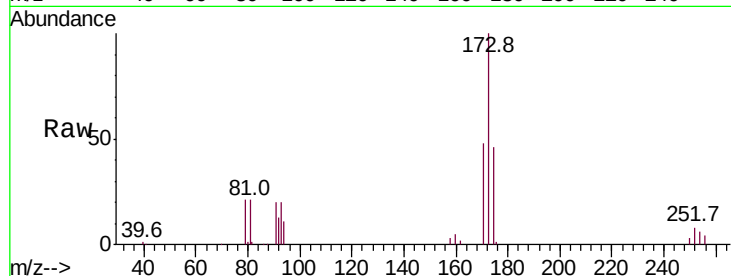




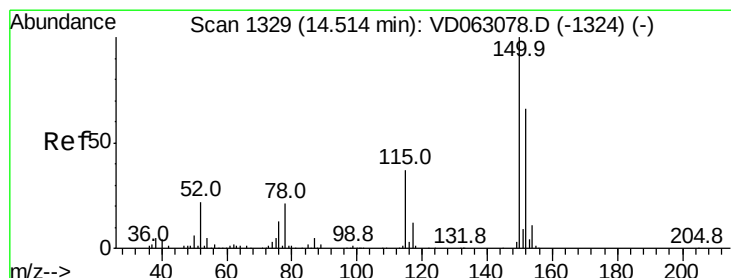
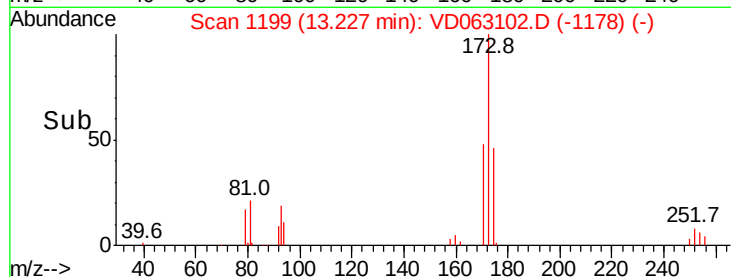
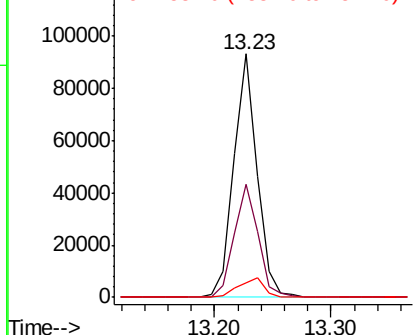
#71
Bromoform
Concen: 20.549 ug/l
RT: 13.23 min Scan# 1199
Delta R.T. 0.00 min
Lab File: VD063102.D
Acq: 16 Jul 2019 13:16

Instrument :
MSVOA_D
ClientSampleId :
VD0716SBS02

Tot Ion:173 Resp: 129142
Ion Ratio Lower Upper
173 100
175 46.4 23.4 70.2
254 6.0 5.4 8.0

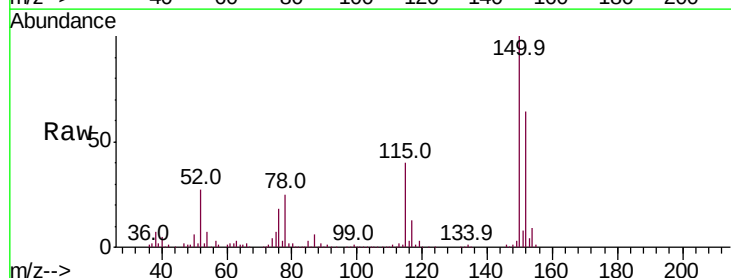


Abundance Ion 172.80 (172.50 to 173.50): V
Ion 174.80 (174.50 to 175.50): V
Ion 253.70 (253.40 to 254.40): V

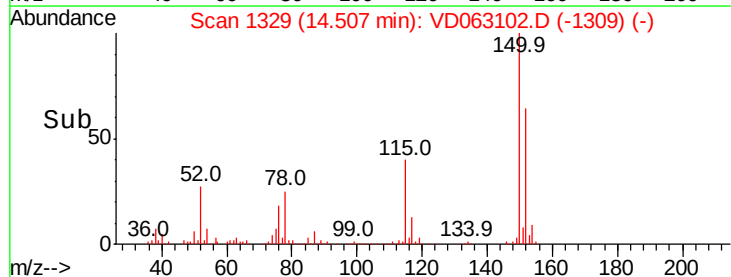
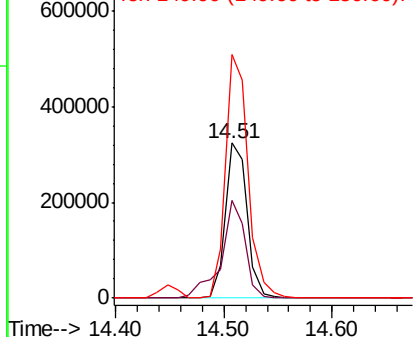


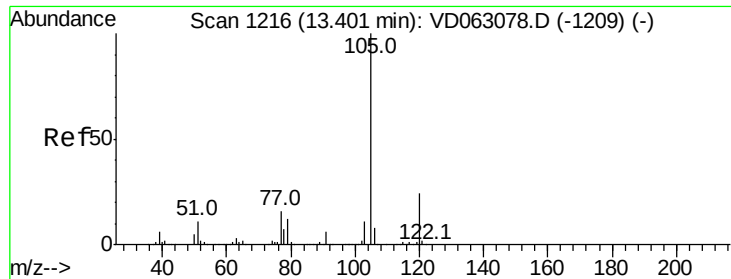
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.01 min
Lab File: VD063102.D
Acq: 16 Jul 2019 13:16

Tgt Ion:152 Resp: 452084
Ion Ratio Lower Upper
152 100
115 63.2 28.9 86.8
150 156.9 0.0 313.8



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





#73

Isopropylbenzene

Concen: 19.220 ug/l

RT: 13.39 min Scan# 1216

Delta R.T. -0.01 min

Lab File: VD063102.D

Acq: 16 Jul 2019 13:16

Instrument :

MSVOA_D

ClientSampleId :

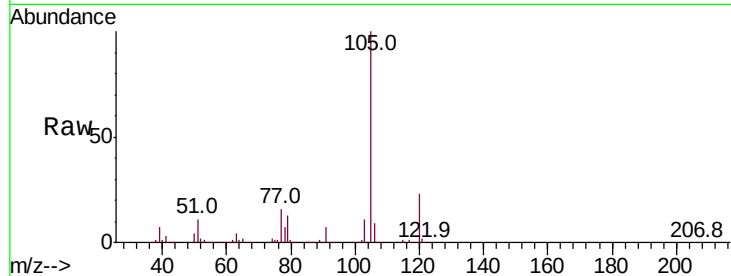
VD0716SBS02

Tot Ion:105 Resp: 671016

Ion Ratio Lower Upper

105 100

120 22.5 12.2 36.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

13.39

500000

400000

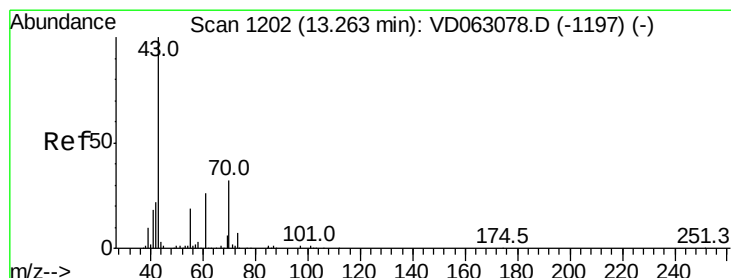
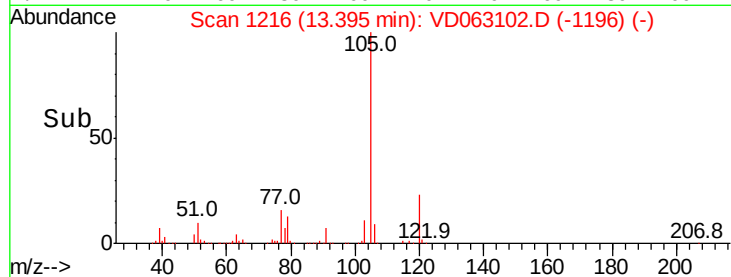
300000

200000

100000

0

Time--> 13.30 13.40 13.50



#74

N-amyl acetate

Concen: 18.242 ug/l

RT: 13.26 min Scan# 1202

Delta R.T. -0.01 min

Lab File: VD063102.D

Acq: 16 Jul 2019 13:16

Tgt Ion: 43 Resp: 177624

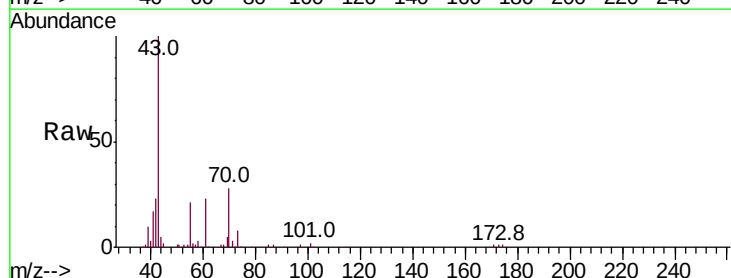
Ion Ratio Lower Upper

43 100

70 27.8 25.5 38.3

55 21.0 15.4 23.0

61 22.7 20.6 31.0



Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V

200000

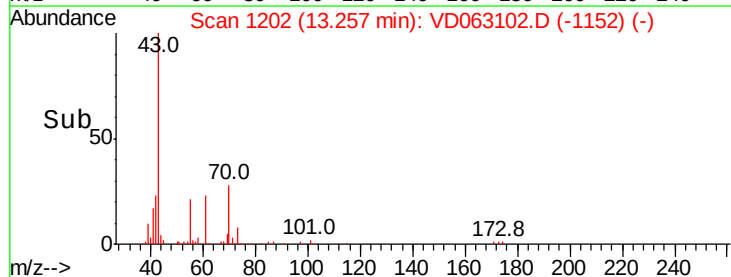
150000

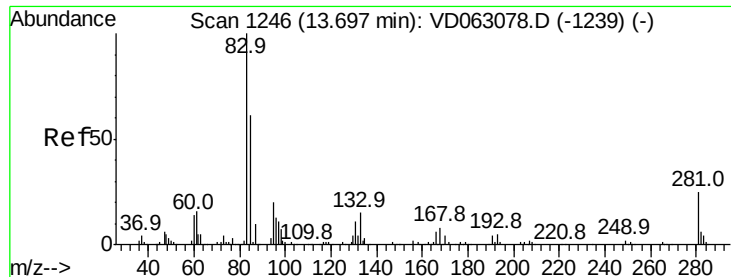
100000

50000

0

Time--> 13.20 13.25 13.30





#75

1,1,2,2-Tetrachloroethane

Concen: 19.429 ug/l

RT: 13.69 min Scan# 1246

Delta R.T. -0.01 min

Lab File: VD063102.D

Acq: 16 Jul 2019 13:16

Instrument :

MSVOA_D

ClientSampleId :

VD0716SBSD02

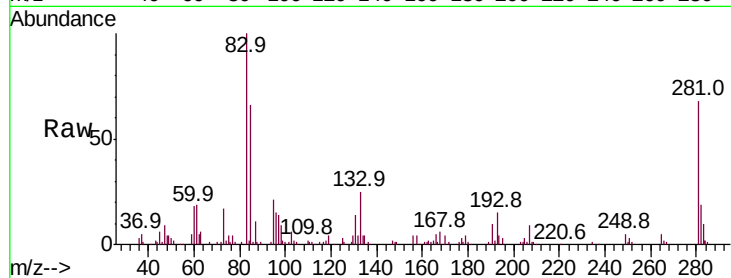
Tot Ion: 83 Resp: 123420

Ion Ratio Lower Upper

83 100

131 13.6 5.5 16.7

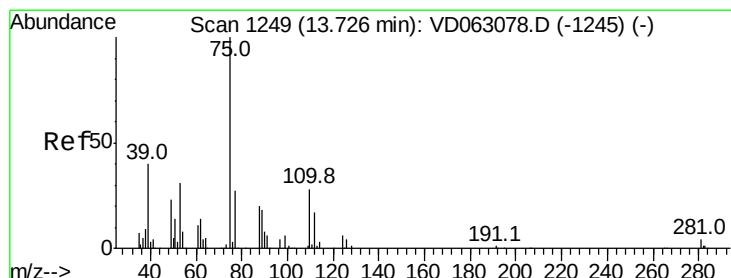
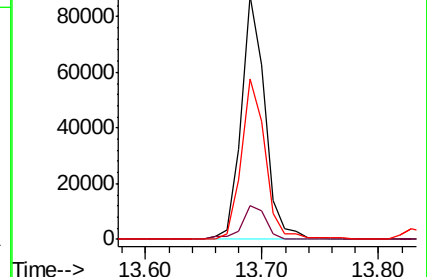
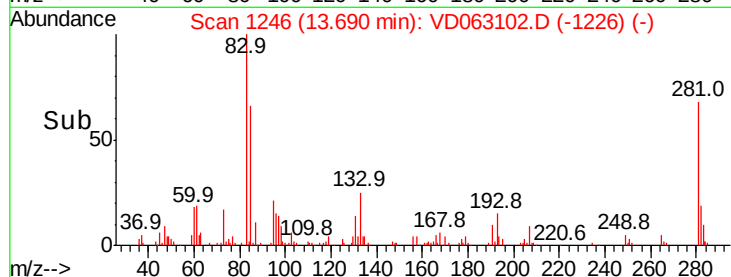
85 66.1 30.7 92.1



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 20.514 ug/l

RT: 13.73 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VD063102.D

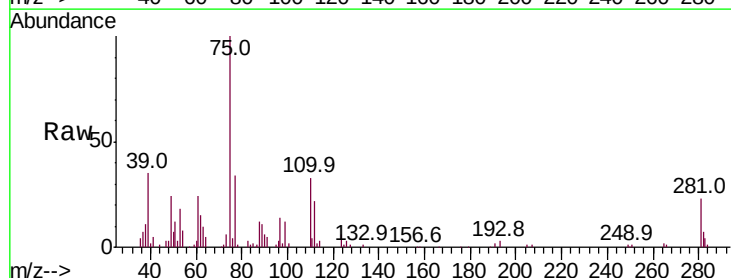
Acq: 16 Jul 2019 13:16

Tgt Ion: 75 Resp: 142665

Ion Ratio Lower Upper

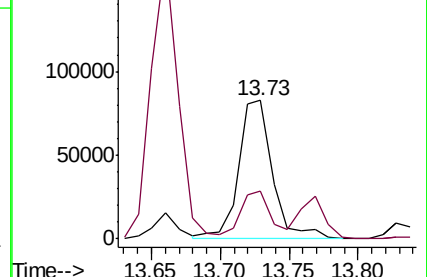
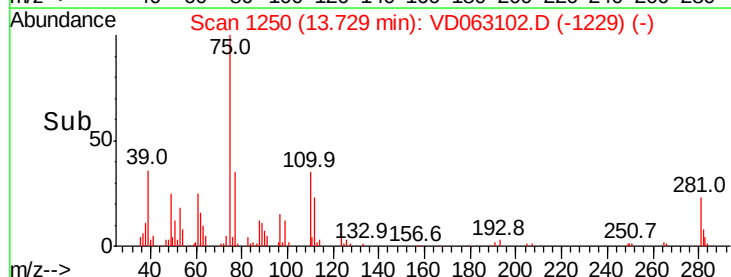
75 100

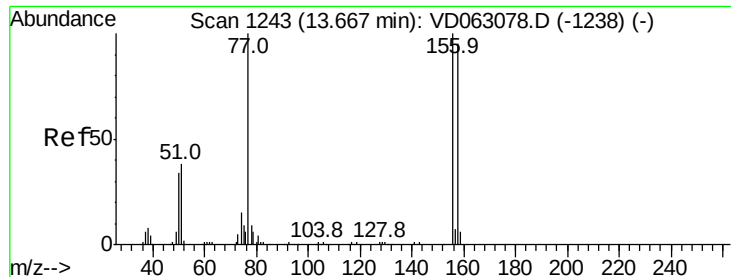
77 34.2 16.3 48.8



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 19.769 ug/l

RT: 13.66 min Scan# 1243

Delta R.T. -0.01 min

Lab File: VD063102.D

Acq: 16 Jul 2019 13:16

Instrument :

MSVOA_D

ClientSampleId :

VD0716SBSD02

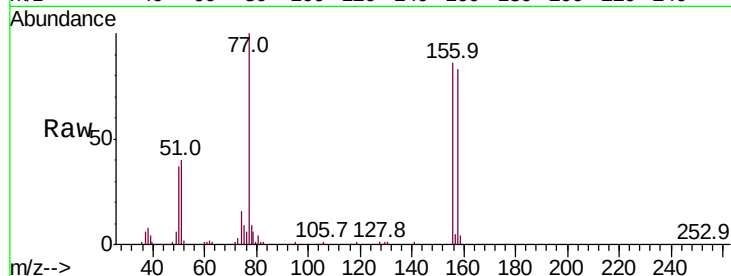
Tot Ion:156 Resp: 195730

Ion Ratio Lower Upper

156 100

77 115.9 50.2 150.7

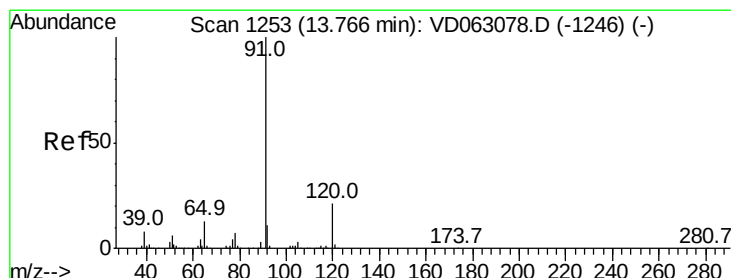
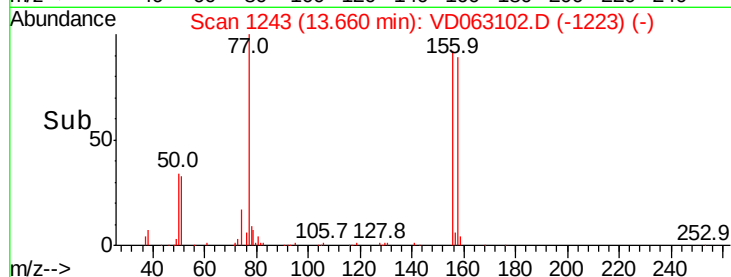
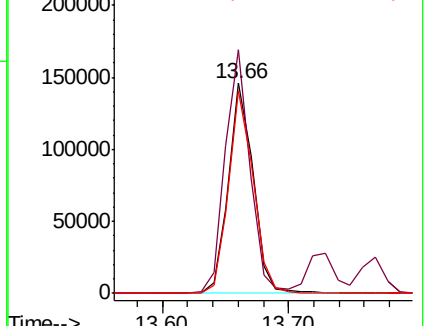
158 96.7 47.6 142.9



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: 19.641 ug/l

RT: 13.77 min Scan# 1254

Delta R.T. 0.00 min

Lab File: VD063102.D

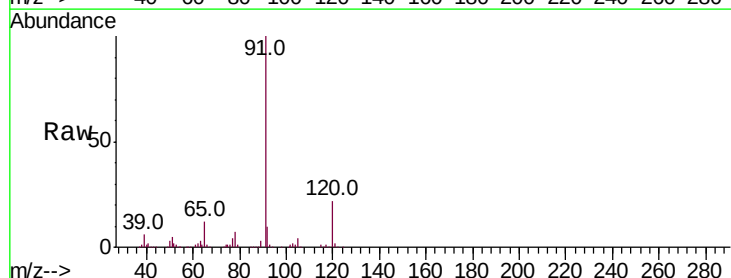
Acq: 16 Jul 2019 13:16

Tgt Ion: 91 Resp: 789124

Ion Ratio Lower Upper

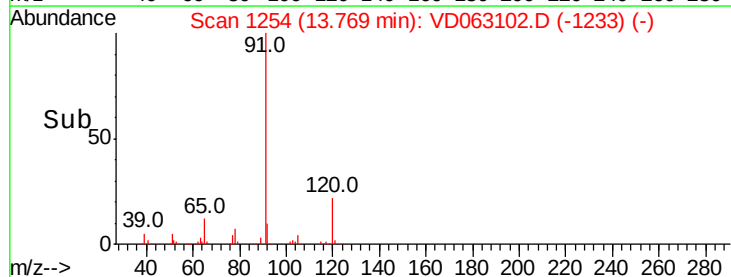
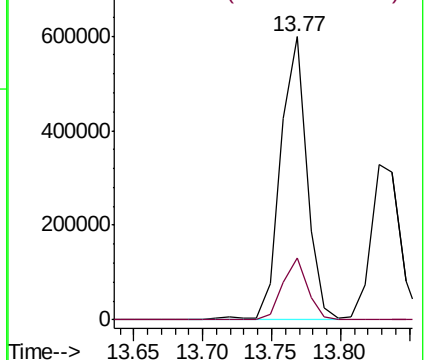
91 100

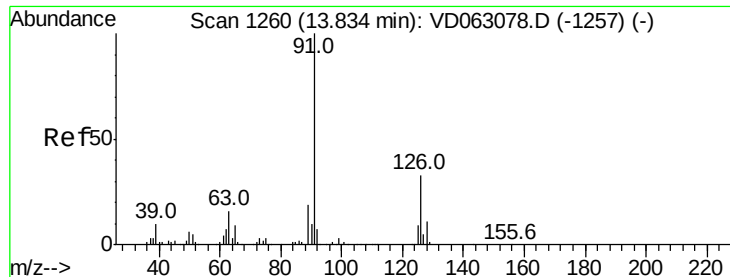
120 22.0 10.5 31.6



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 19.803 ug/l

RT: 13.83 min Scan# 1260

Delta R.T. -0.01 min

Lab File: VD063102.D

Acq: 16 Jul 2019 13:16

Instrument :

MSVOA_D

ClientSampleId :

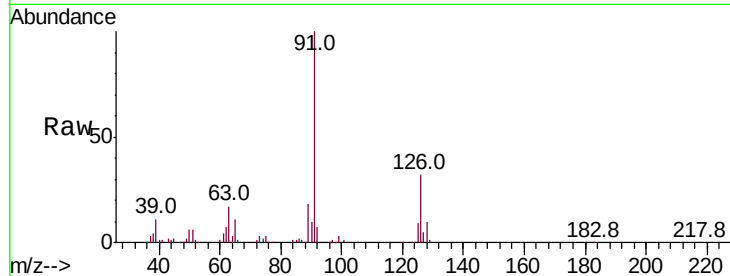
VD0716SBSD02

Tot Ion: 91 Resp: 481067

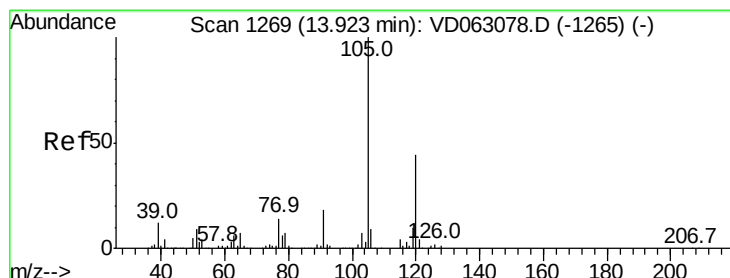
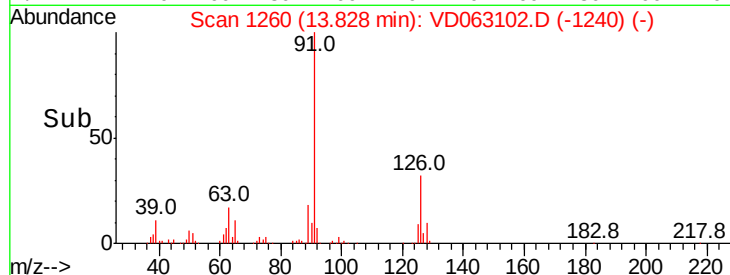
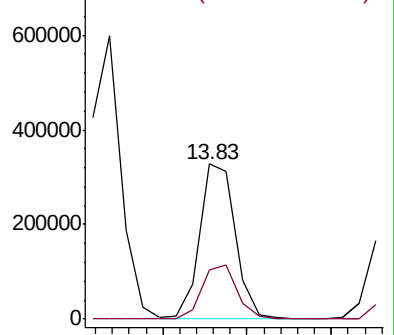
Ion Ratio Lower Upper

91 100

126 32.0 16.4 49.2



Abundance Ion 91.00 (90.70 to 91.70): VD063078.D (-1257) (-)



#80

1,3,5-Trimethylbenzene

Concen: 20.343 ug/l

RT: 13.93 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VD063102.D

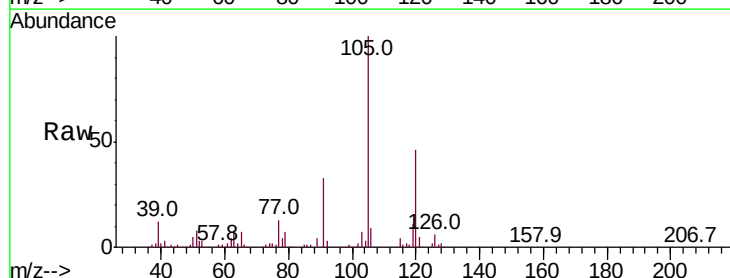
Acq: 16 Jul 2019 13:16

Tgt Ion:105 Resp: 619011

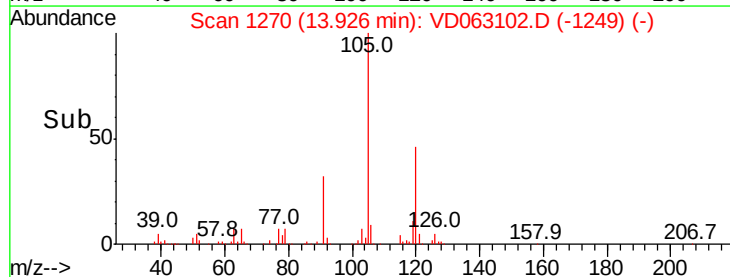
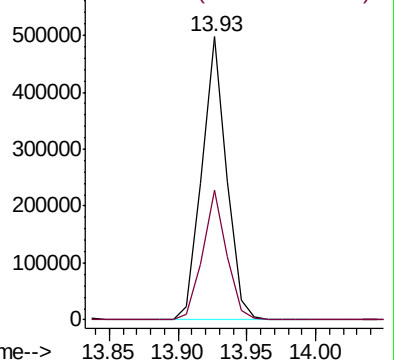
Ion Ratio Lower Upper

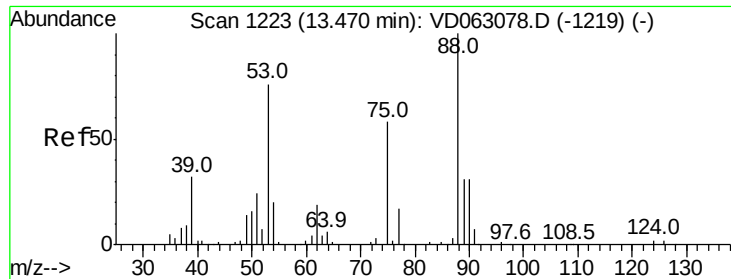
105 100

120 45.9 21.8 65.4



Abundance Ion 105.05 (104.75 to 105.75): VD063078.D (-1265) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 21.110 ug/l

RT: 13.46 min Scan# 1223

Delta R.T. -0.01 min

Lab File: VD063102.D

Acq: 16 Jul 2019 13:16

Instrument :

MSVOA_D

ClientSampleId :

VD0716SBS02

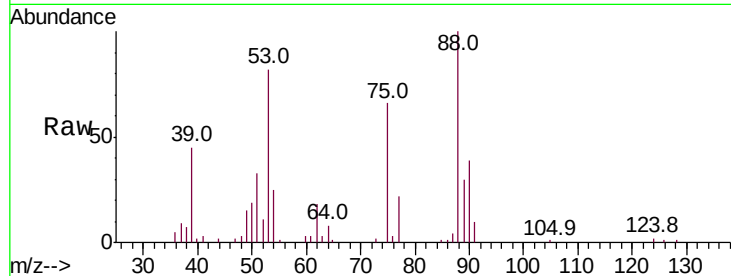
Tot Ion: 75 Resp: 38659

Ion Ratio Lower Upper

75 100

53 124.9 104.4 156.6

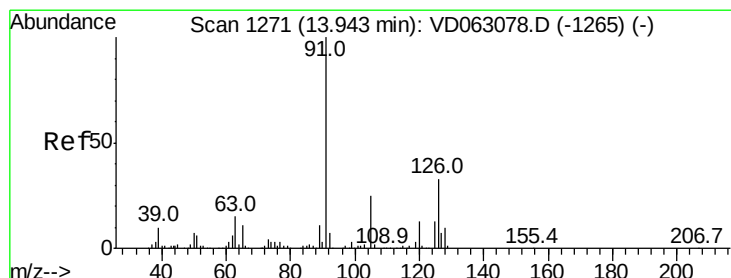
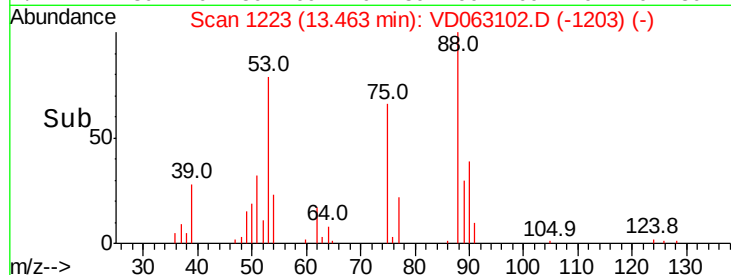
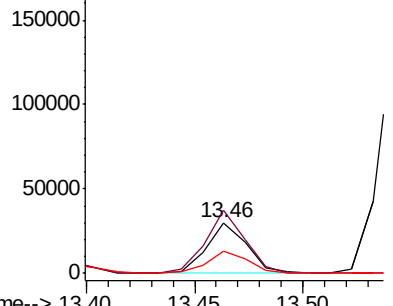
89 44.9 43.1 64.7



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: 21.071 ug/l

RT: 13.94 min Scan# 1271

Delta R.T. -0.01 min

Lab File: VD063102.D

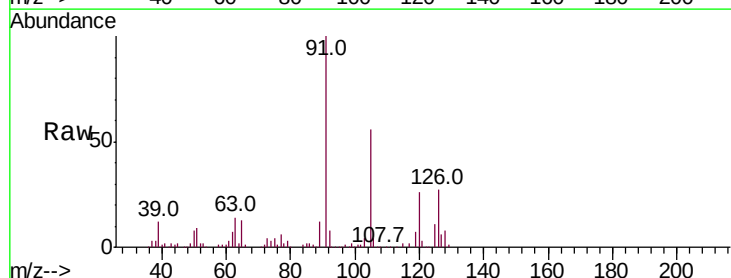
Acq: 16 Jul 2019 13:16

Tgt Ion: 91 Resp: 597727

Ion Ratio Lower Upper

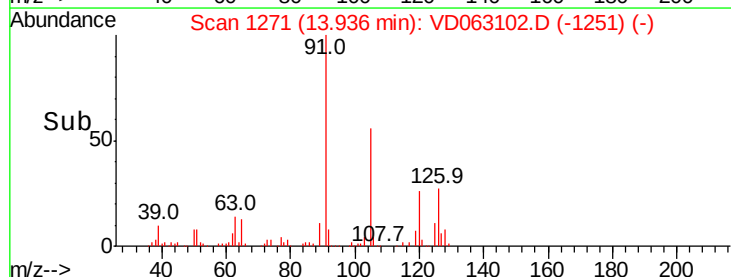
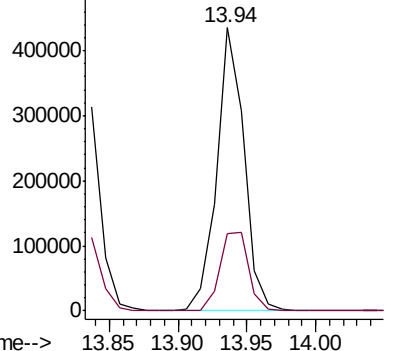
91 100

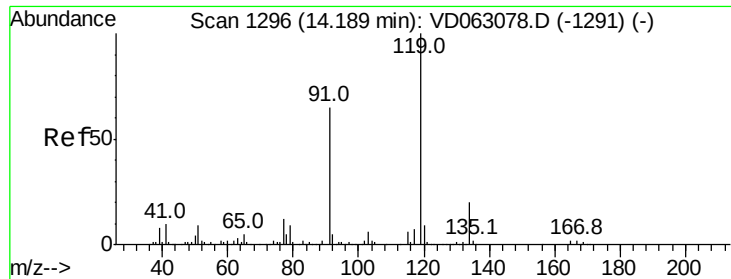
126 27.1 16.7 50.1



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V





#83

tert-Butylbenzene

Concen: 19.290 ug/l

RT: 14.18 min Scan# 1296

Delta R.T. -0.01 min

Lab File: VD063102.D

Acq: 16 Jul 2019 13:16

Instrument :

MSVOA_D

ClientSampleId :

VD0716SBSD02

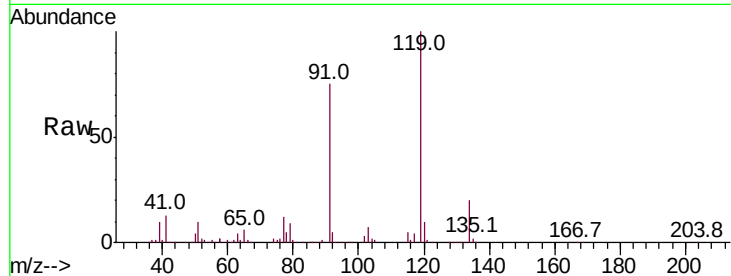
Tot Ion:119 Resp: 663697

Ion Ratio Lower Upper

119 100

91 75.0 32.4 97.2

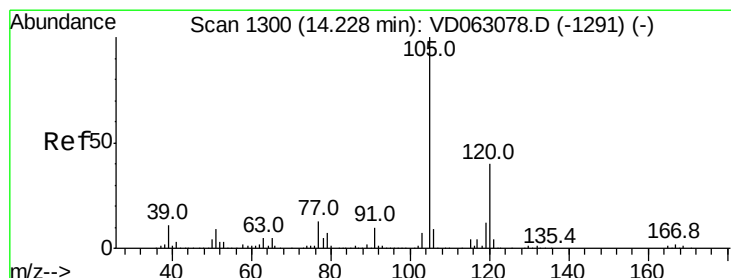
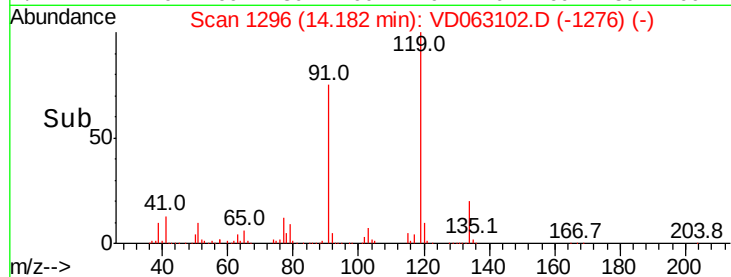
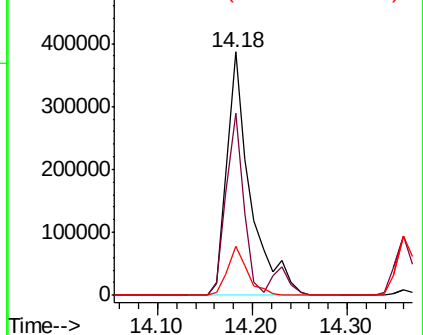
134 20.2 10.2 30.6



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 20.032 ug/l

RT: 14.23 min Scan# 1301

Delta R.T. 0.00 min

Lab File: VD063102.D

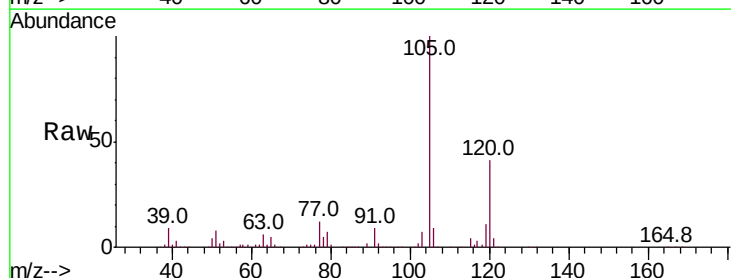
Acq: 16 Jul 2019 13:16

Tgt Ion:105 Resp: 607695

Ion Ratio Lower Upper

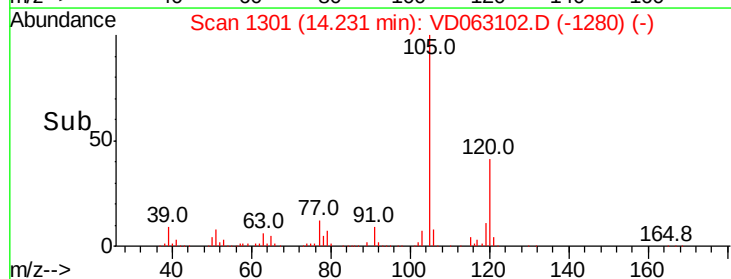
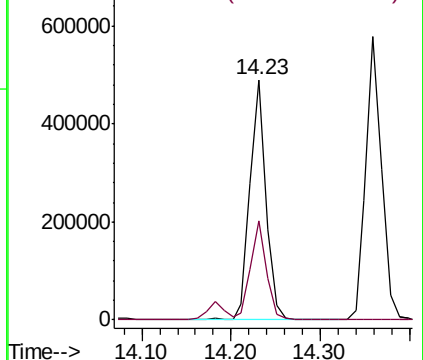
105 100

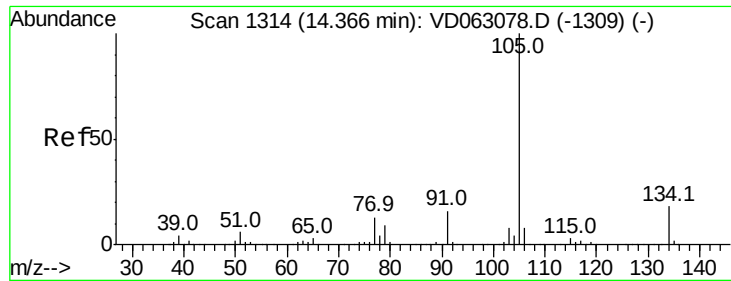
120 41.2 20.2 60.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#85

sec-Butylbenzene

Concen: 19.584 ug/l

RT: 14.36 min Scan# 1314

Delta R.T. -0.01 min

Lab File: VD063102.D

Acq: 16 Jul 2019 13:16

Instrument :

MSVOA_D

ClientSampleId :

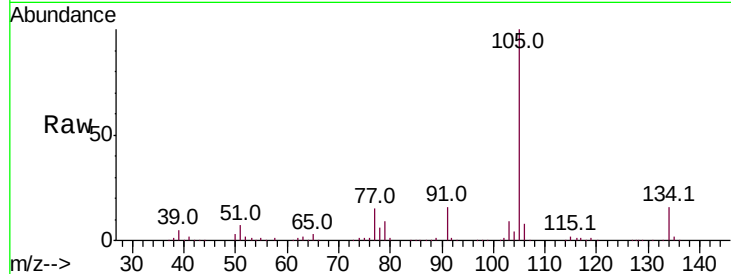
VD0716SBS02

Tot Ion:105 Resp: 715903

Ion Ratio Lower Upper

105 100

134 16.4 8.9 26.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V

14.36

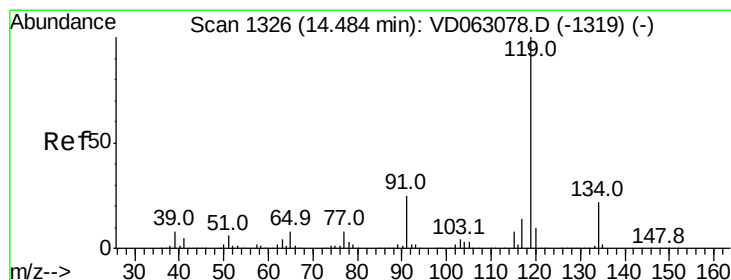
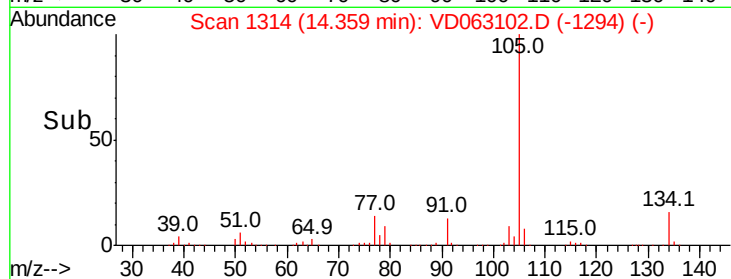
600000

400000

200000

0

Time-->



#86

p-Isopropyltoluene

Concen: 19.178 ug/l

RT: 14.49 min Scan# 1327

Delta R.T. 0.00 min

Lab File: VD063102.D

Acq: 16 Jul 2019 13:16

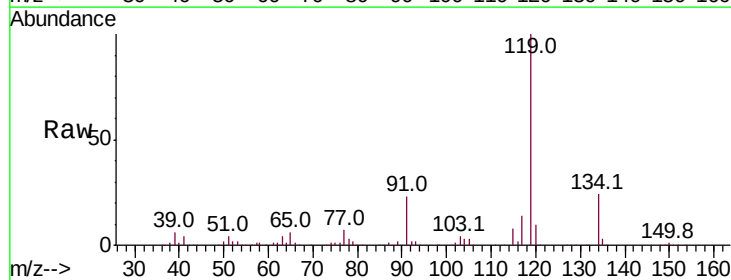
Tgt Ion:119 Resp: 654007

Ion Ratio Lower Upper

119 100

134 24.4 10.8 32.4

91 23.4 12.5 37.5



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

14.49

600000

500000

400000

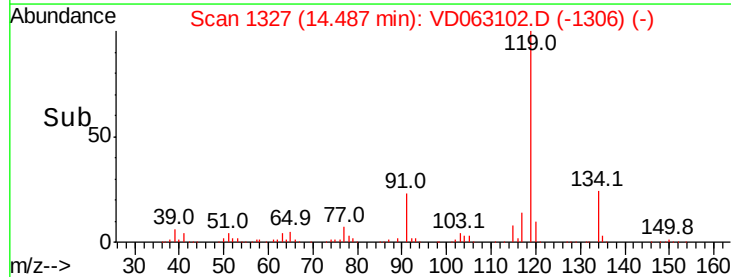
300000

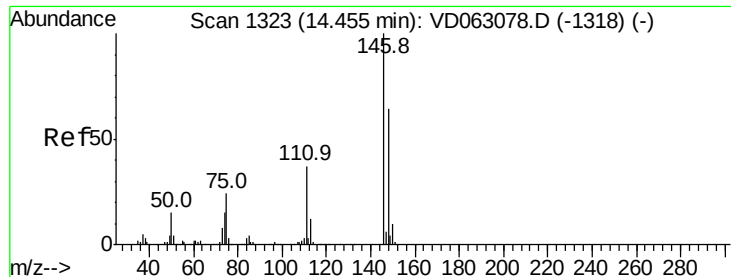
200000

100000

0

Time-->

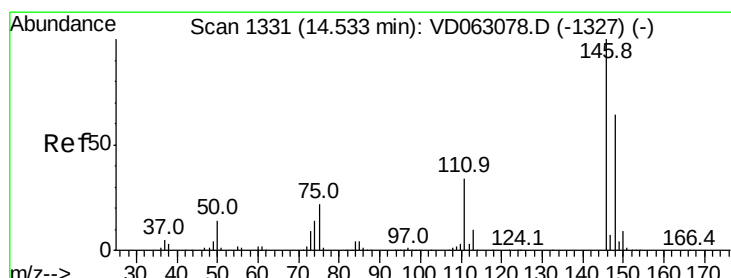
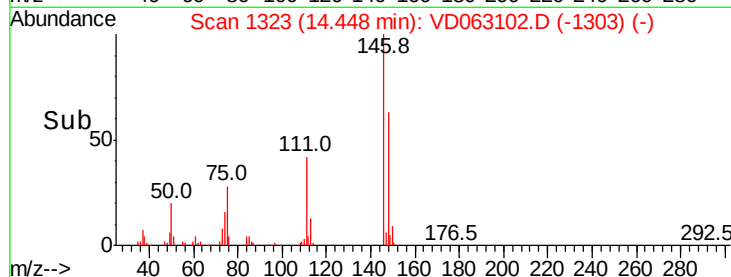
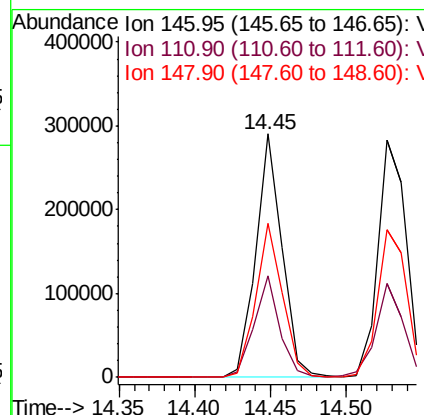
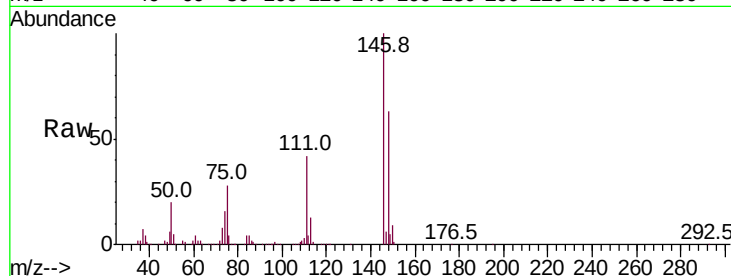




#87
 1,3-Dichlorobenzene
 Concen: 19.884 ug/l
 RT: 14.45 min Scan# 1323
 Delta R.T. -0.01 min
 Lab File: VD063102.D
 Acq: 16 Jul 2019 13:16

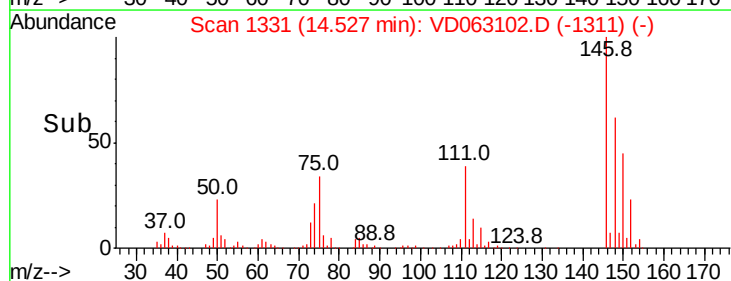
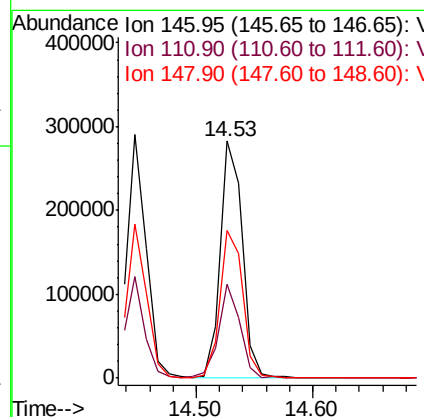
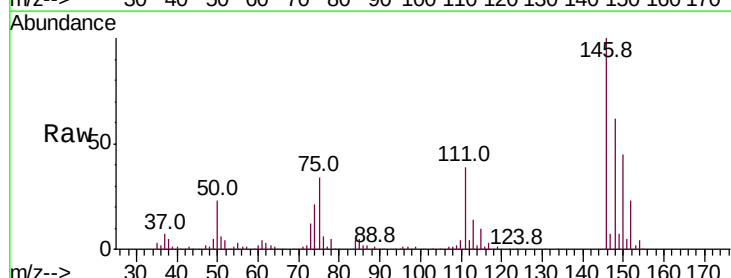
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0716SBS02

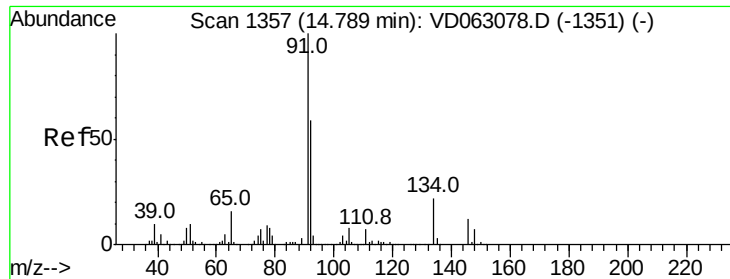
Tot Ion	Ratio	Lower	Upper
146	100		
111	41.9	18.6	55.6
148	63.0	32.0	96.0



#88
 1,4-Dichlorobenzene
 Concen: 21.993 ug/l
 RT: 14.53 min Scan# 1331
 Delta R.T. -0.01 min
 Lab File: VD063102.D
 Acq: 16 Jul 2019 13:16

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.5	17.0	51.0
148	62.5	32.0	96.2





#89

n-Butylbenzene

Concen: 18.811 ug/l

RT: 14.79 min Scan# 1358

Delta R.T. 0.00 min

Lab File: VD063102.D

Acq: 16 Jul 2019 13:16

Instrument :

MSVOA_D

ClientSampleId :

VD0716SBSD02

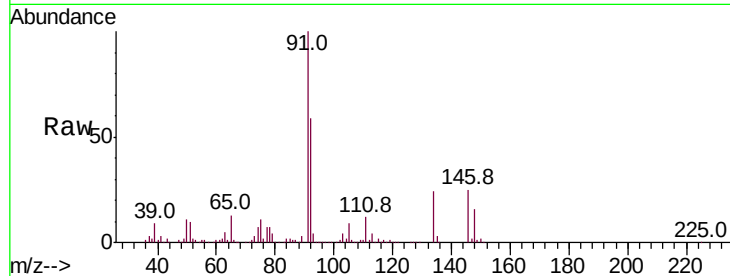
Tot Ion: 91 Resp: 591268

Ion Ratio Lower Upper

91 100

92 58.9 29.4 88.3

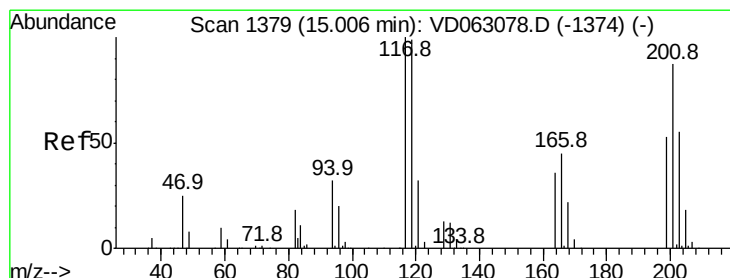
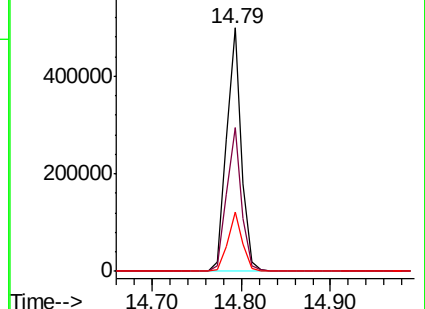
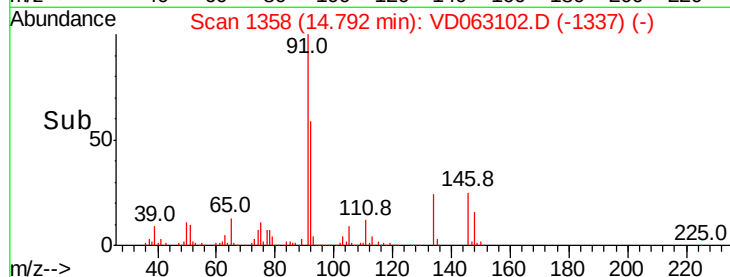
134 24.4 11.3 33.8



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: 19.523 ug/l

RT: 15.00 min Scan# 1379

Delta R.T. -0.01 min

Lab File: VD063102.D

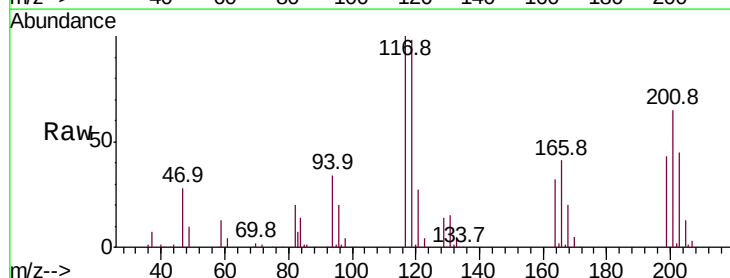
Acq: 16 Jul 2019 13:16

Tgt Ion: 117 Resp: 177974

Ion Ratio Lower Upper

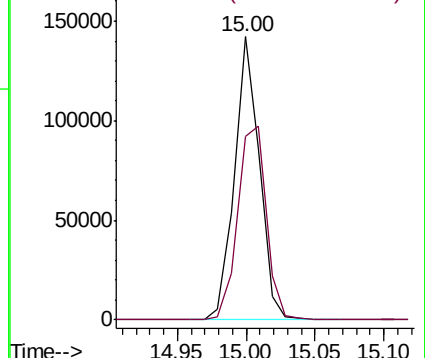
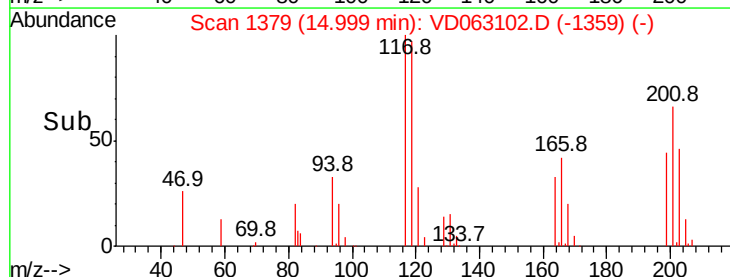
117 100

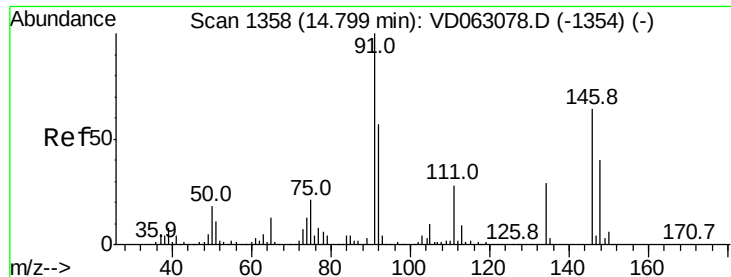
201 65.0 43.4 130.1



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V





#91

1,2-Dichlorobenzene

Concen: 19.816 ug/l

RT: 14.80 min Scan# 1359

Delta R.T. 0.00 min

Lab File: VD063102.D

Acq: 16 Jul 2019 13:16

Instrument :

MSVOA_D

ClientSampleId :

VD0716SBS02

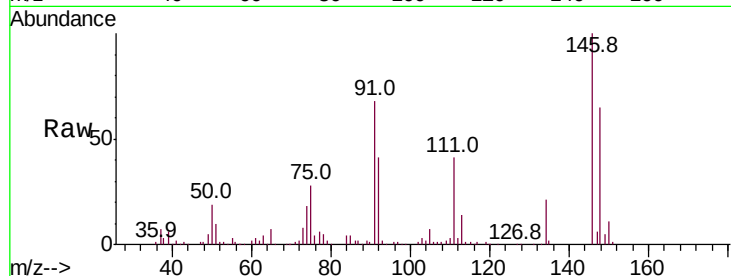
Tot Ion:146 Resp: 311999

Ion Ratio Lower Upper

146 100

111 41.0 21.9 65.5

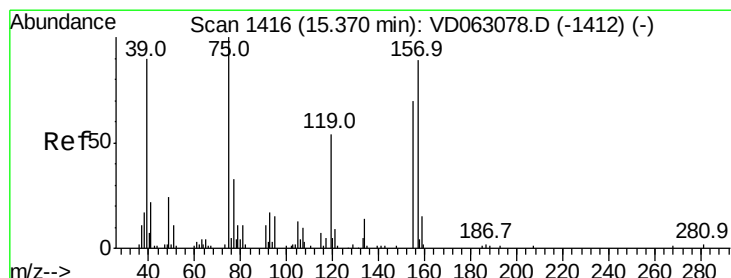
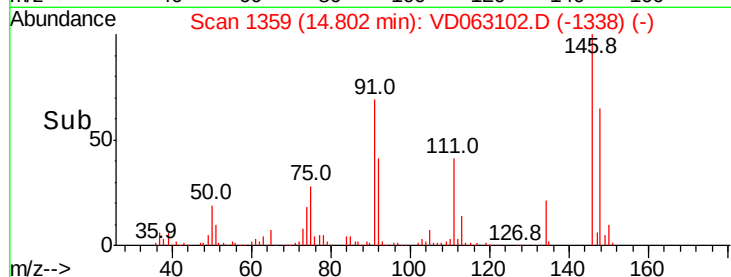
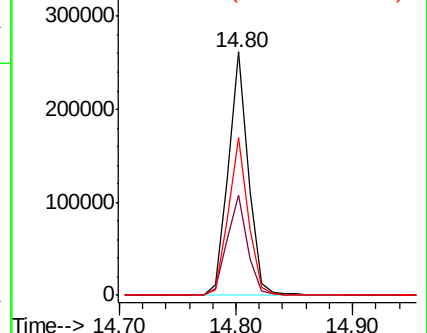
148 64.9 31.5 94.5



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 17.821 ug/l

RT: 15.37 min Scan# 1417

Delta R.T. 0.00 min

Lab File: VD063102.D

Acq: 16 Jul 2019 13:16

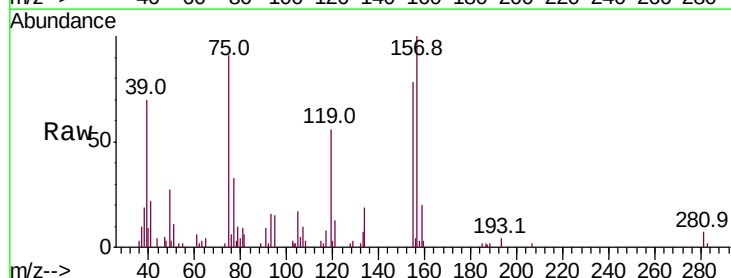
Tgt Ion: 75 Resp: 21698

Ion Ratio Lower Upper

75 100

155 85.6 34.8 104.3

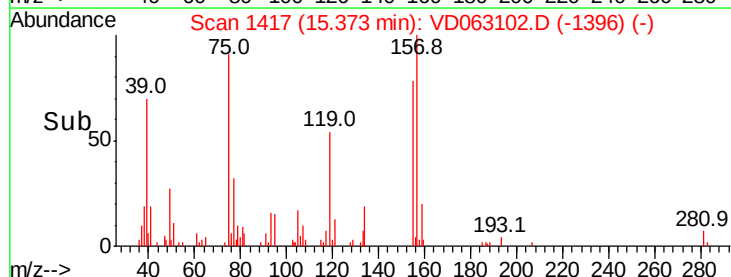
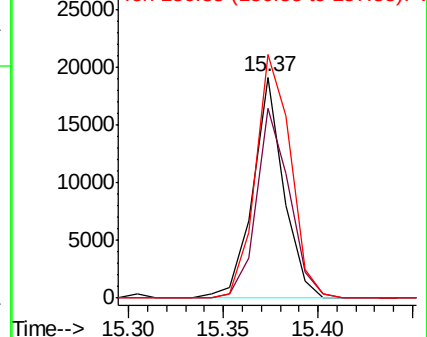
157 110.1 44.7 134.1

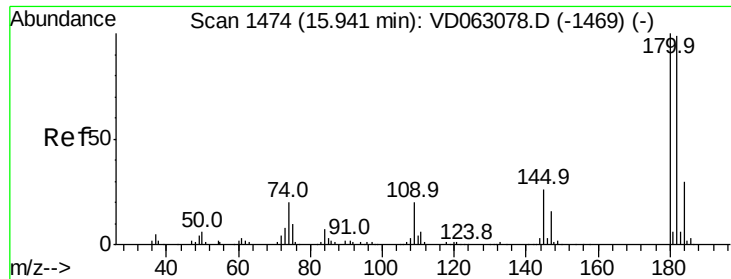


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V

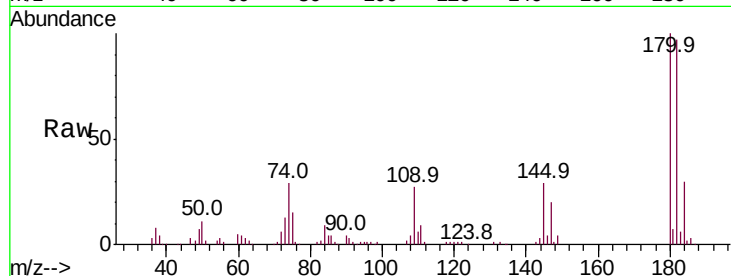




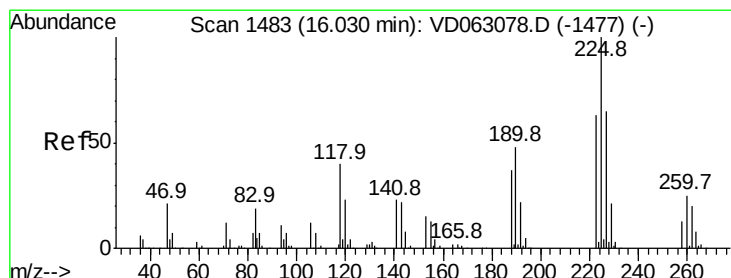
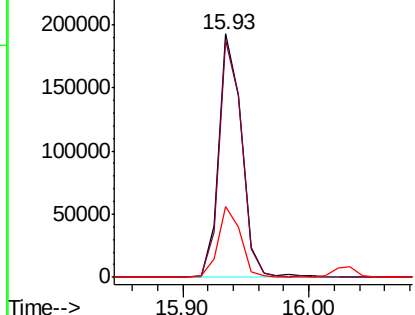
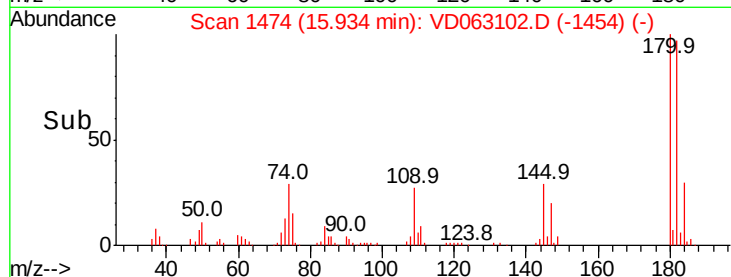
#93
 1,2,4-Trichlorobenzene
 Concen: 20.606 ug/l
 RT: 15.93 min Scan# 1474
 Delta R.T. -0.01 min
 Lab File: VD063102.D
 Acq: 16 Jul 2019 13:16

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0716SBSD02

Tot Ion:180 Resp: 243743
 Ion Ratio Lower Upper
 180 100
 182 97.4 49.5 148.3
 145 29.0 12.8 38.4

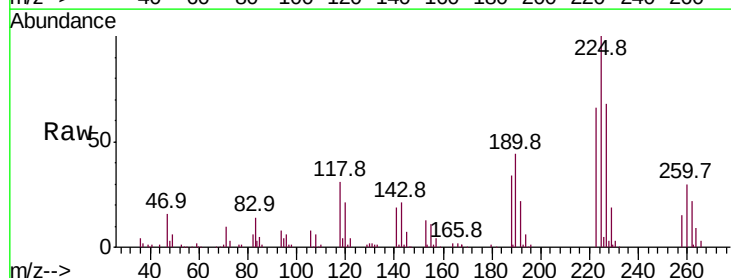


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

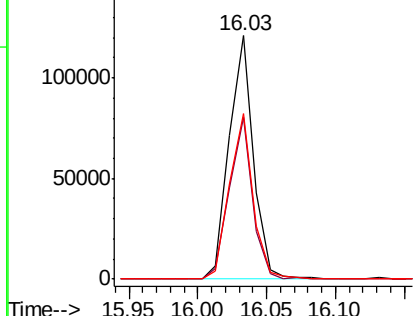
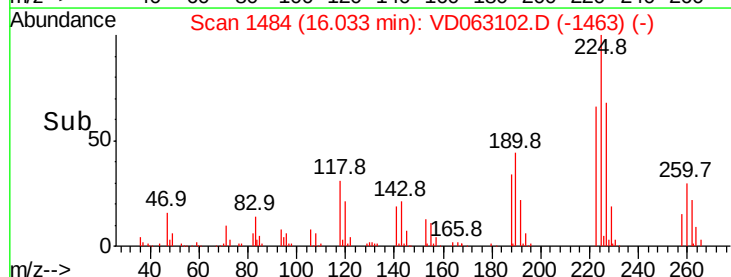


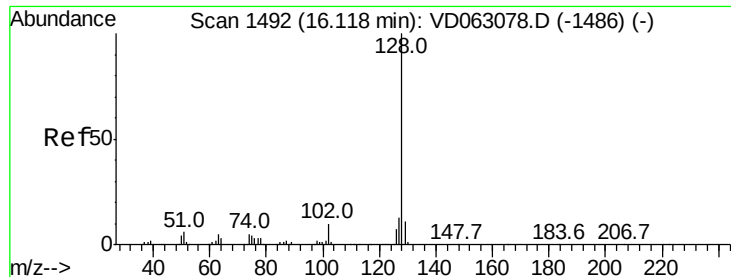
#94
 Hexachlorobutadiene
 Concen: 16.985 ug/l
 RT: 16.03 min Scan# 1484
 Delta R.T. 0.00 min
 Lab File: VD063102.D
 Acq: 16 Jul 2019 13:16

Tgt Ion:225 Resp: 148090
 Ion Ratio Lower Upper
 225 100
 223 66.3 31.4 94.2
 227 68.2 32.6 97.8



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

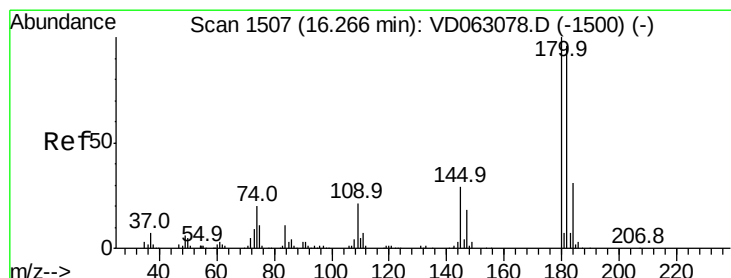
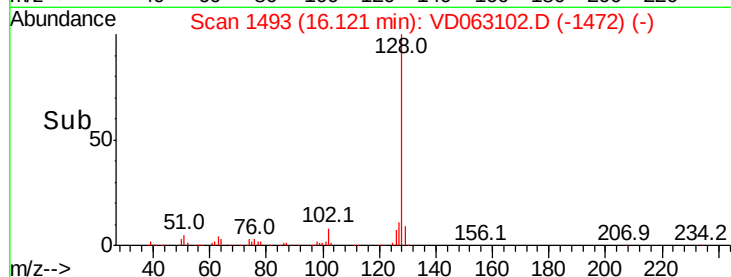
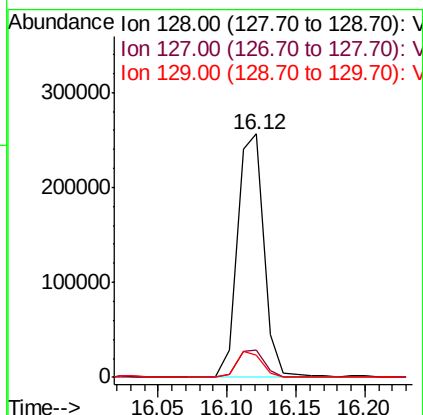
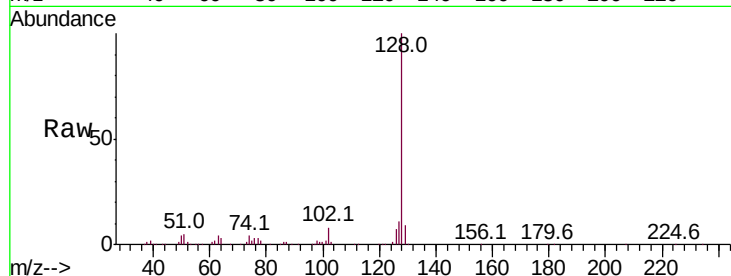




#95
Naphthalene
Concen: 19.884 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. 0.00 min
Lab File: VD063102.D
Acq: 16 Jul 2019 13:16

Instrument :
MSVOA_D
ClientSampleId :
VD0716SBS02

Tot Ion:128 Resp: 344056
Ion Ratio Lower Upper
128 100
127 11.2 10.7 16.1
129 9.1 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 19.165 ug/l
RT: 16.26 min Scan# 1507
Delta R.T. -0.01 min
Lab File: VD063102.D
Acq: 16 Jul 2019 13:16

Tgt Ion:180 Resp: 182368
Ion Ratio Lower Upper
180 100
182 98.8 47.9 143.6
145 30.3 14.4 43.4

