

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082019\
 Data File : VD063677.D
 Acq On : 20 Aug 2019 11:49
 Operator : JC/SY
 Sample : VD0820SBS01
 Misc : 5.00µl/5ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0820SBS01

Quant Time: Aug 20 12:12:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 10 06:42:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.03	168	1052207	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	8.20	114	1382390	50.00	ug/l	-0.03
63) Chlorobenzene-d5	12.36	117	1150561	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.51	152	641551	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.43	65	533166	47.40	ug/l	-0.03
Spiked Amount			Recovery	=	94.80%	
35) Dibromofluoromethane	6.90	113	626998	53.85	ug/l	-0.03
Spiked Amount			Recovery	=	107.70%	
50) Toluene-d8	10.40	98	1460013	57.04	ug/l	-0.02
Spiked Amount			Recovery	=	114.08%	
62) 4-Bromofluorobenzene	13.55	95	581905	50.16	ug/l	-0.01
Spiked Amount			Recovery	=	100.32%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.56	85	254160	19.966	ug/l	98
3) Chloromethane	1.74	50	209968	21.111	ug/l	92
4) Vinyl Chloride	1.83	62	206656	20.930	ug/l	95
5) Bromomethane	2.14	94	86278	18.519	ug/l	93
6) Chloroethane	2.25	64	93078	20.615	ug/l #	87
7) Trichlorofluoromethane	2.51	101	401790	20.746	ug/l	92
8) Diethyl Ether	2.86	74	56576	20.691	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	3.12	101	223376	19.533	ug/l #	86
10) Methyl Iodide	3.28	142	300752	18.587	ug/l #	91
11) Tert butyl alcohol	4.07	59	53861	110.006	ug/l	98
12) 1,1-Dichloroethene	3.10	96	166976	19.639	ug/l	87
13) Acrolein	3.01	56	32622	67.689	ug/l	95
14) Allyl chloride	3.60	41	276637	21.644	ug/l	98
15) Acrylonitrile	4.18	53	128871	99.370	ug/l	93
16) Acetone	3.20	43	219944	96.199	ug/l	95
17) Carbon Disulfide	3.35	76	525664	19.590	ug/l	98
18) Methyl Acetate	3.63	43	85915	19.839	ug/l #	91
19) Methyl tert-butyl Ether	4.23	73	365858	21.517	ug/l	98
20) Methylene Chloride	3.79	84	189437	19.161	ug/l	96
21) trans-1,2-Dichloroethene	4.20	96	202916	22.680	ug/l	92
22) Diisopropyl ether	5.10	45	537219	20.369	ug/l	99
23) Vinyl Acetate	5.03	43	1562585	101.910	ug/l	100
24) 1,1-Dichloroethane	4.95	63	357643	21.863	ug/l	98
25) 2-Butanone	6.06	43	217850	96.476	ug/l	98
26) 2,2-Dichloropropane	6.00	77	364427	22.366	ug/l	98
27) cis-1,2-Dichloroethene	6.02	96	204318	20.872	ug/l	86
28) Bromochloromethane	6.42	49	128422	19.370	ug/l	98
29) Tetrahydrofuran	6.44	42	101794	96.743	ug/l	96
30) Chloroform	6.65	83	427617	21.030	ug/l	93
31) Cyclohexane	6.93	56	215631	21.233	ug/l	94
32) 1,1,1-Trichloroethane	6.85	97	420473	21.618	ug/l	97
36) 1,1-Dichloropropene	7.13	75	291376	23.843	ug/l	96
37) Ethyl Acetate	6.16	43	112762	22.020	ug/l #	92
38) Carbon Tetrachloride	7.09	117	404755	21.976	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.85	83	231922	22.318	ug/l	96
40) Benzene	7.43	78	563267	20.944	ug/l	100
41) Methacrylonitrile	6.44	41	139123	21.577	ug/l #	86
42) 1,2-Dichloroethane	7.56	62	300807	22.245	ug/l	100
43) Isopropyl Acetate	9.23	43	150105	21.886	ug/l #	92
44) Trichloroethene	8.53	130	227361	22.119	ug/l	99
45) 1,2-Dichloropropane	8.93	63	147252	23.512	ug/l	98
46) Dibromomethane	9.05	93	110025	20.572	ug/l #	85
47) Bromodichloromethane	9.36	83	311512	22.707	ug/l	94
48) Methyl methacrylate	9.11	41	97390	20.939	ug/l	88
49) 1,4-Dioxane	9.07	88	18356	455.749	ug/l #	87
51) 4-Methyl-2-Pentanone	10.29	43	518442	110.471	ug/l	90
52) Toluene	10.50	92	403843	23.314	ug/l	97
53) t-1,3-Dichloropropene	10.90	75	259636	23.190	ug/l	98
54) cis-1,3-Dichloropropene	10.02	75	271827	21.532	ug/l #	92
55) 1,1,2-Trichloroethane	11.19	97	130195	22.251	ug/l	96
56) Ethyl methacrylate	11.04	69	143173	22.544	ug/l	97
57) 1,3-Dichloropropane	11.40	76	198668	22.462	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.85	63	350943	104.670	ug/l	100
59) 2-Hexanone	11.52	43	378659	110.888	ug/l	98
60) Dibromochloromethane	11.68	129	240804	22.617	ug/l	93
61) 1,2-Dibromoethane	11.80	107	161541	22.806	ug/l	92
64) Tetrachloroethene	11.24	164	202693	22.821	ug/l	95
65) Chlorobenzene	12.40	112	485215	22.501	ug/l	95
66) 1,1,1,2-Tetrachloroethane	12.50	131	230358	24.273	ug/l	99
67) Ethyl Benzene	12.51	91	896195	23.902	ug/l	99
68) m/p-Xylenes	12.66	106	627530	47.637	ug/l	95
69) o-Xylene	13.05	106	285365	22.507	ug/l	93
70) Styrene	13.07	104	487586	21.620	ug/l	99
71) Bromoform	13.22	173	146962	22.584	ug/l #	92
73) Isopropylbenzene	13.40	105	924428	22.654	ug/l	99
74) N-amyl acetate	13.26	43	201595	19.680	ug/l	99
75) 1,1,2,2-Tetrachloroethane	13.70	83	142492	21.038	ug/l	95
76) 1,2,3-Trichloropropane	13.73	75	152366	20.694	ug/l	89
77) Bromobenzene	13.67	156	247602	22.202	ug/l	90
78) n-propylbenzene	13.76	91	987078	20.674	ug/l	93
79) 2-Chlorotoluene	13.83	91	602761	21.896	ug/l	93
80) 1,3,5-Trimethylbenzene	13.93	105	740980	20.783	ug/l	96
81) trans-1,4-Dichloro-2-buten	13.47	75	39584	20.003	ug/l	99
82) 4-Chlorotoluene	13.94	91	699911	21.143	ug/l	96
83) tert-Butylbenzene	14.19	119	867496	23.106	ug/l	98
84) 1,2,4-Trimethylbenzene	14.24	105	755346	22.897	ug/l	94
85) sec-Butylbenzene	14.37	105	912958	22.897	ug/l	99
86) p-Isopropyltoluene	14.48	119	825215	21.646	ug/l	97
87) 1,3-Dichlorobenzene	14.45	146	437142	21.670	ug/l	97
88) 1,4-Dichlorobenzene	14.53	146	446713	23.081	ug/l	98
89) n-Butylbenzene	14.80	91	730106	20.983	ug/l	94
90) Hexachloroethane	15.01	117	202306	21.113	ug/l	96
91) 1,2-Dichlorobenzene	14.81	146	352398	20.590	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	15.38	75	25619	20.088	ug/l	91

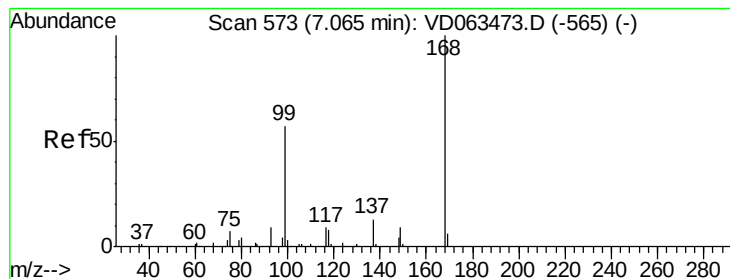
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD082019\
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	297646	23.634	µg/l	93
94) Hexachlorobutadiene	16.04	225	222289	23.160	µg/l	97
95) Naphthalene	16.12	128	395004	20.696	µg/l	98
96) 1,2,3-Trichlorobenzene	16.27	180	229694	22.581	µg/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.03 min

Lab File: VD063677.D

Acq: 20 Aug 2019 11:49

Instrument :

MSVOA_D

ClientSampleId :

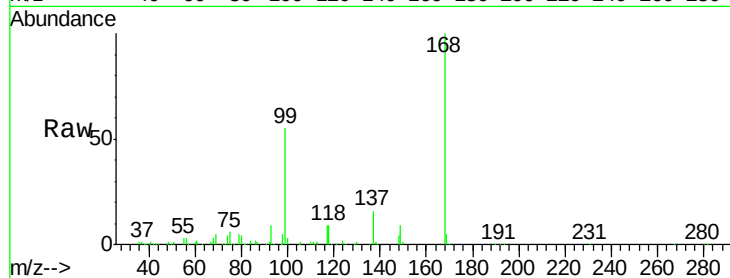
VD0820SBSD01

Tot Ion:168 Resp: 1052207

Ion Ratio Lower Upper

168 100

99 55.2 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.03

400000

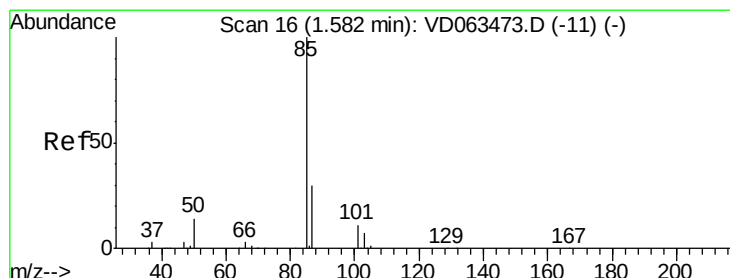
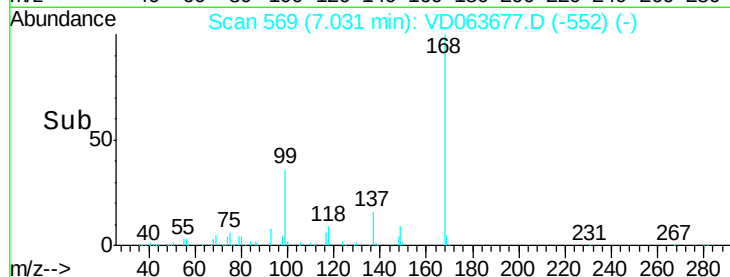
300000

200000

100000

0

Time--> 6.80 7.00 7.20



#2

Dichlorodifluoromethane

Concen: 19.966 ug/l

RT: 1.56 min Scan# 13

Delta R.T. -0.02 min

Lab File: VD063677.D

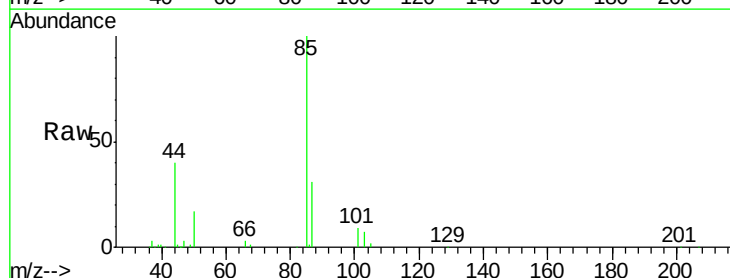
Acq: 20 Aug 2019 11:49

Tgt Ion: 85 Resp: 254160

Ion Ratio Lower Upper

85 100

87 31.2 15.0 45.0



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

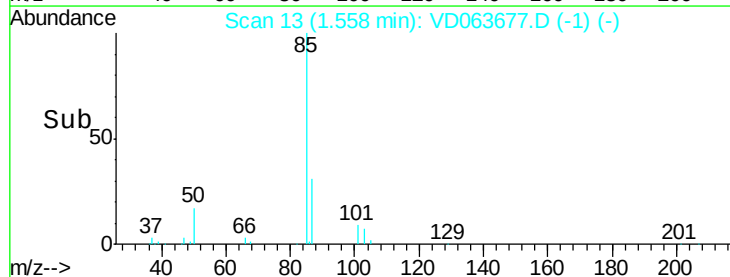
1.56

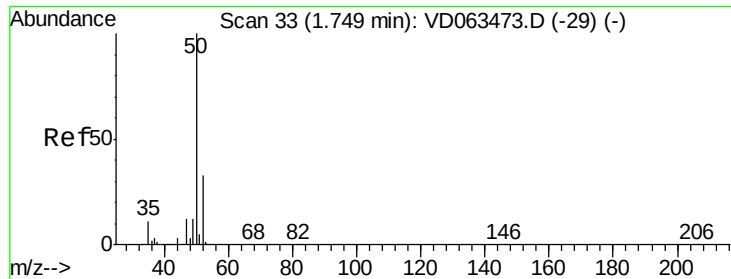
100000

50000

0

Time--> 1.50 1.60 1.70





#3

Chloromethane

Concen: 21.111 ug/l

RT: 1.74 min Scan# 31

Delta R.T. -0.01 min

Lab File: VD063677.D

Acq: 20 Aug 2019 11:49

Instrument :

MSVOA_D

ClientSampleId :

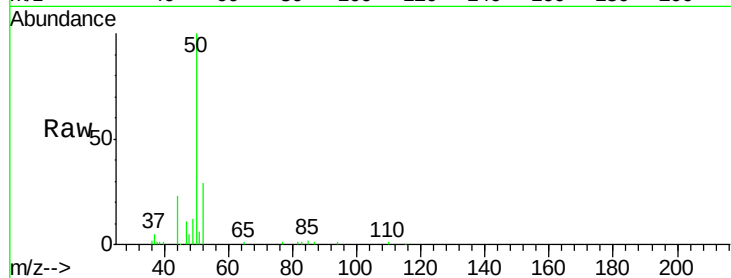
VD0820SBS01

Tot Ion: 50 Resp: 209968

Ion Ratio Lower Upper

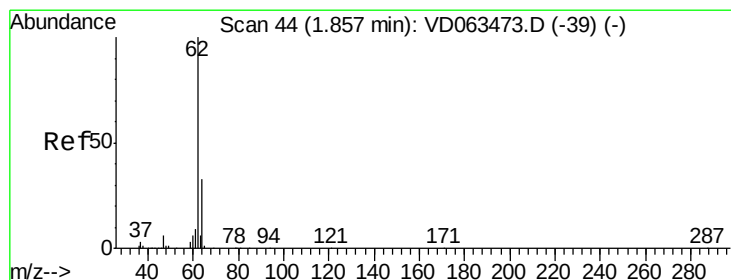
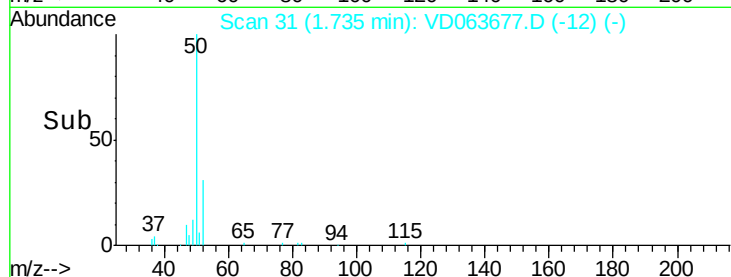
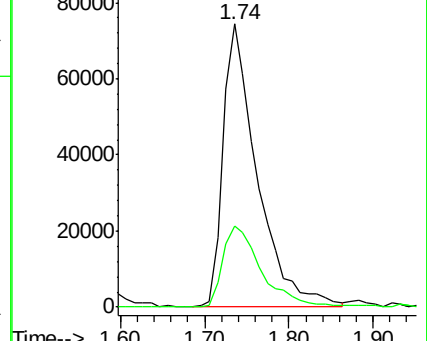
50 100

52 28.8 26.6 40.0



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 20.930 ug/l

RT: 1.83 min Scan# 41

Delta R.T. -0.02 min

Lab File: VD063677.D

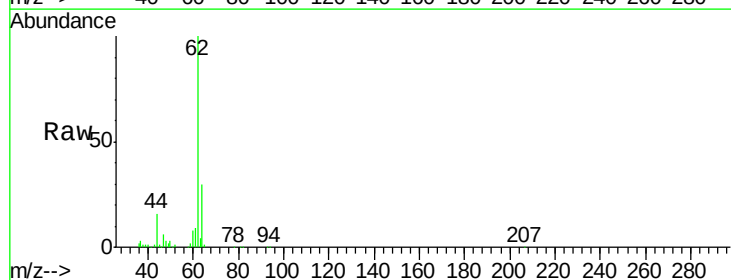
Acq: 20 Aug 2019 11:49

Tgt Ion: 62 Resp: 206656

Ion Ratio Lower Upper

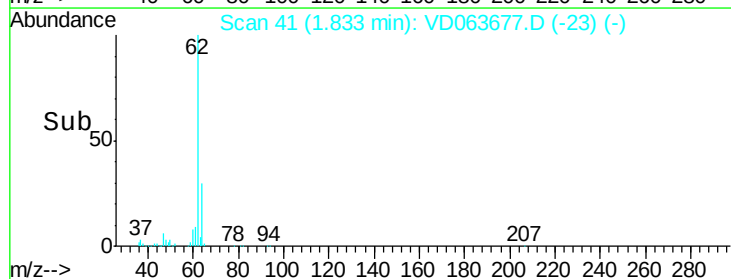
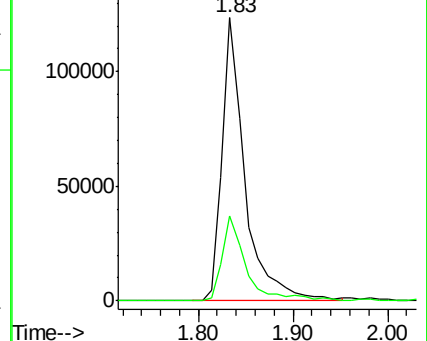
62 100

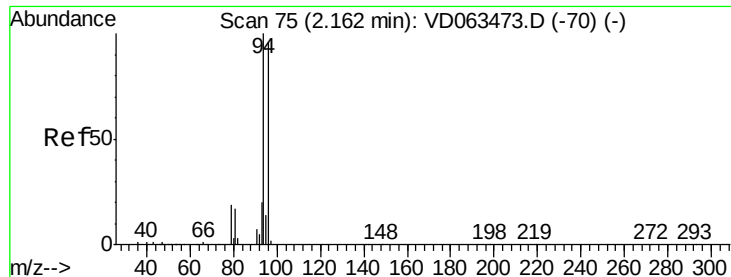
64 30.2 26.4 39.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 18.519 ug/l

RT: 2.14 min Scan# 72

Delta R.T. -0.02 min

Lab File: VD063677.D

Acq: 20 Aug 2019 11:49

Instrument :

MSVOA_D

ClientSampleId :

VD0820SBSD01

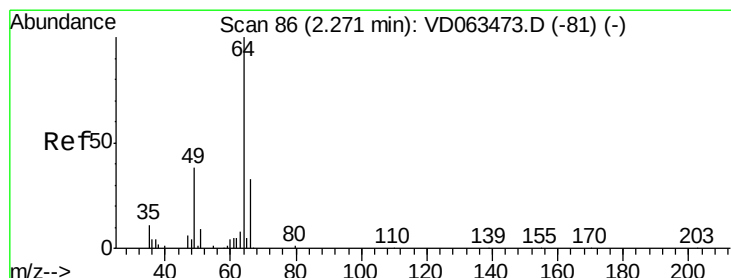
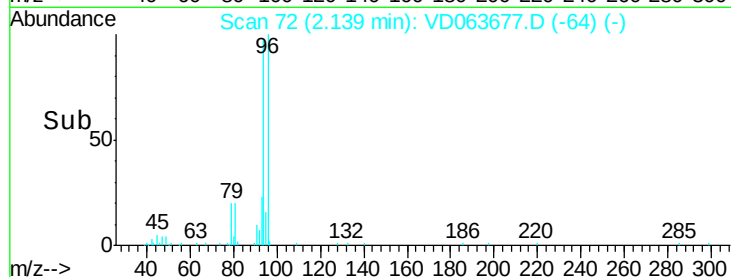
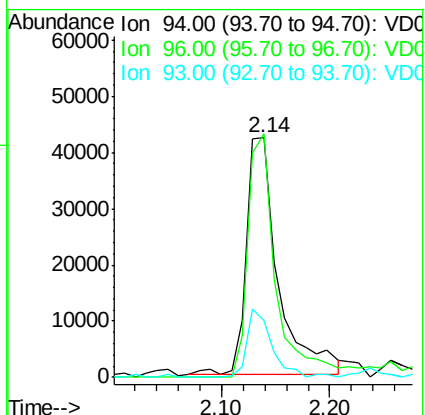
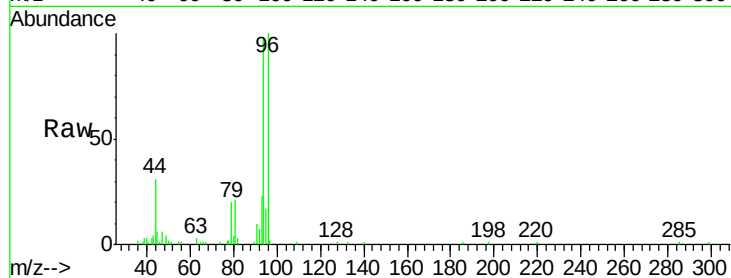
Tot Ion: 94 Resp: 86278

Ion Ratio Lower Upper

94 100

96 101.7 76.5 114.7

93 23.6 15.8 23.8



#6

Chloroethane

Concen: 20.615 ug/l

RT: 2.25 min Scan# 83

Delta R.T. -0.02 min

Lab File: VD063677.D

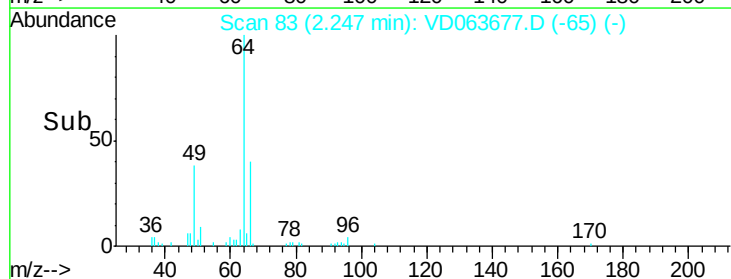
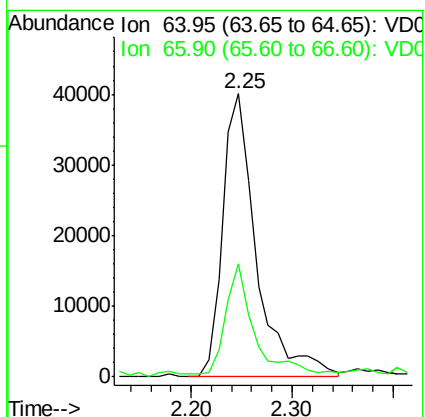
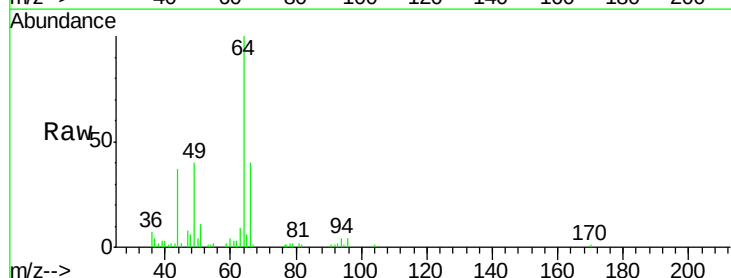
Acq: 20 Aug 2019 11:49

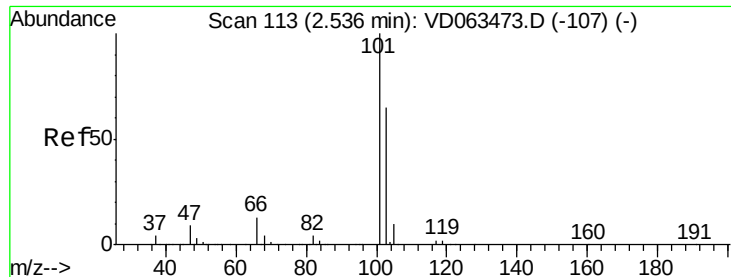
Tgt Ion: 64 Resp: 93078

Ion Ratio Lower Upper

64 100

66 40.1 26.3 39.5#



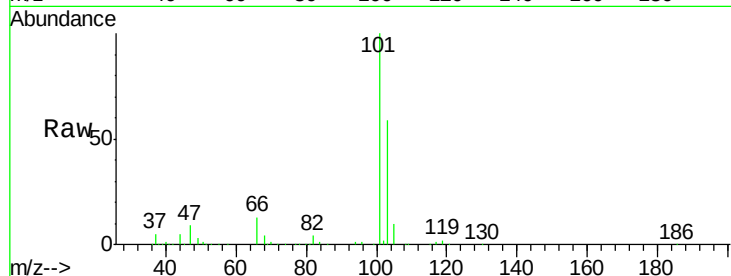


#7

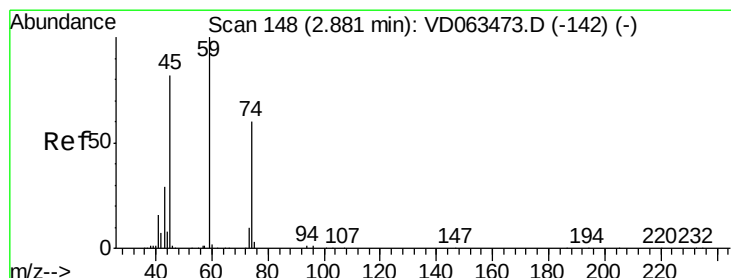
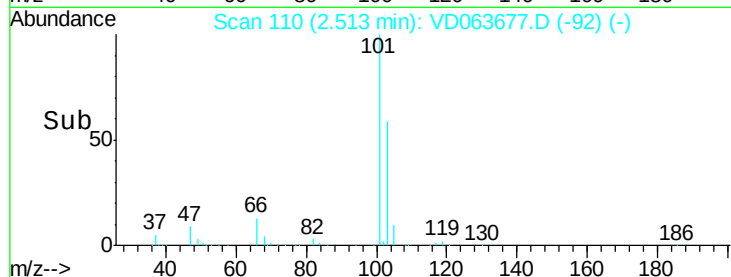
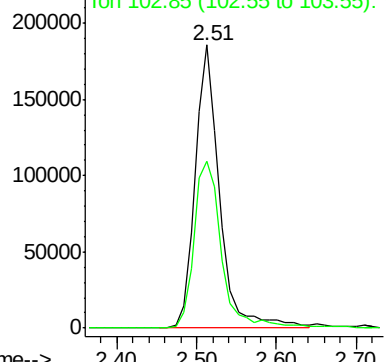
Trichlorofluoromethane
 Concen: 20.746 ug/l
 RT: 2.51 min Scan# 110
 Delta R.T. -0.02 min
 Lab File: VD063677.D
 Acq: 20 Aug 2019 11:49

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0820SBSD01

Tot Ion:101 Resp: 401790
 Ion Ratio Lower Upper
 101 100
 103 59.2 52.2 78.4



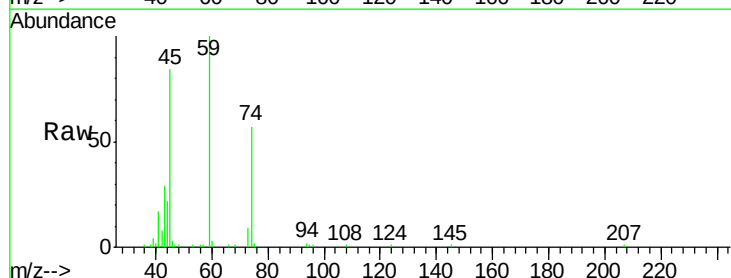
Abundance Ion 100.85 (100.55 to 101.55): V
 Ion 102.85 (102.55 to 103.55): V



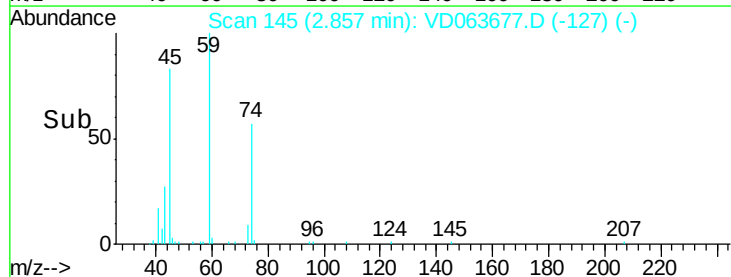
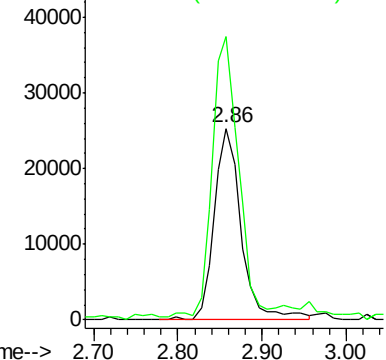
#8

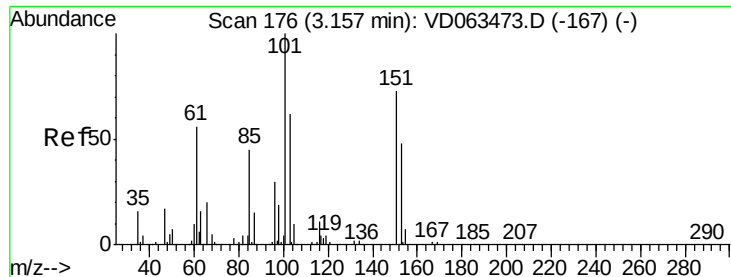
Diethyl Ether
 Concen: 20.691 ug/l
 RT: 2.86 min Scan# 145
 Delta R.T. -0.02 min
 Lab File: VD063677.D
 Acq: 20 Aug 2019 11:49

Tgt Ion: 74 Resp: 56576
 Ion Ratio Lower Upper
 74 100
 45 147.9 68.5 205.5



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





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.533 ug/l

RT: 3.12 min Scan# 172

Delta R.T. -0.03 min

Lab File: VD063677.D

Acq: 20 Aug 2019 11:49

Instrument :

MSVOA_D

ClientSampleId :

VD0820SBSD01

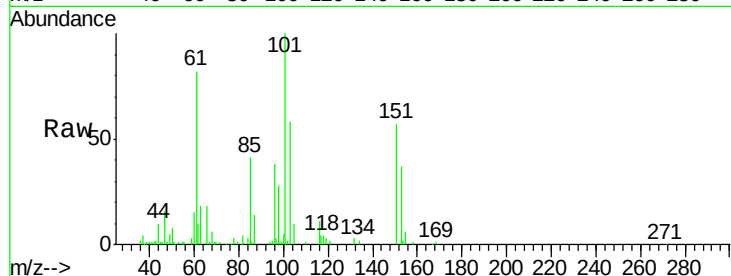
Tot Ion:101 Resp: 223376

Ion Ratio Lower Upper

101 100

85 40.9 35.8 53.6

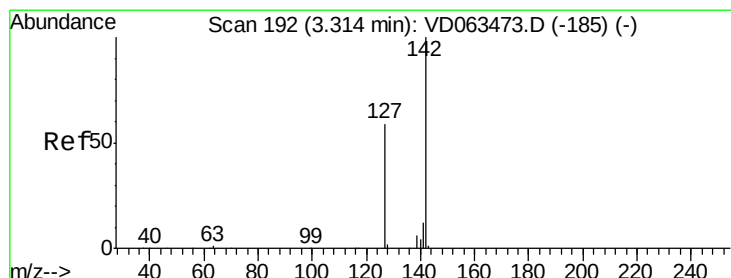
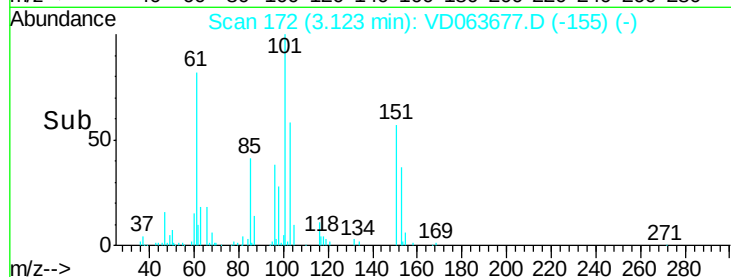
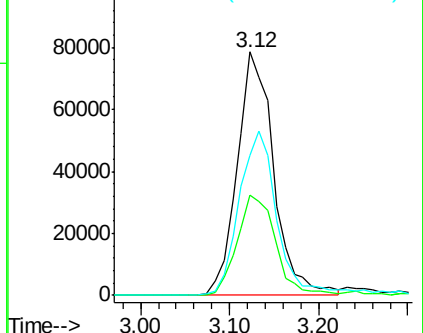
151 57.4 58.6 88.0#



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 18.587 ug/l

RT: 3.28 min Scan# 188

Delta R.T. -0.03 min

Lab File: VD063677.D

Acq: 20 Aug 2019 11:49

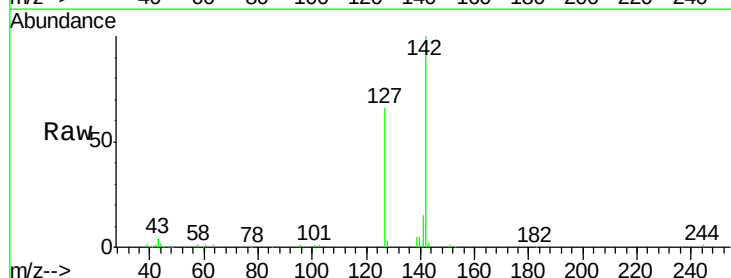
Tgt Ion:142 Resp: 300752

Ion Ratio Lower Upper

142 100

127 66.4 47.2 70.8

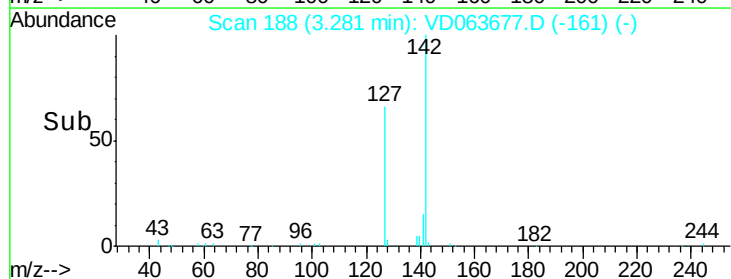
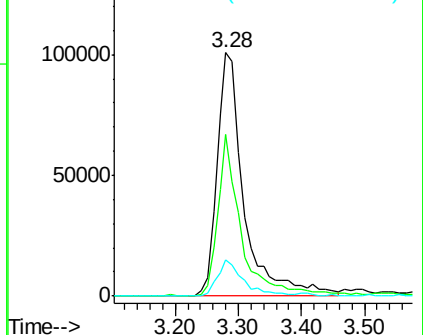
141 15.1 9.8 14.8#

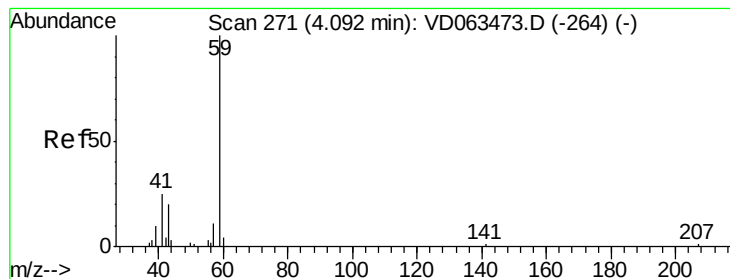


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



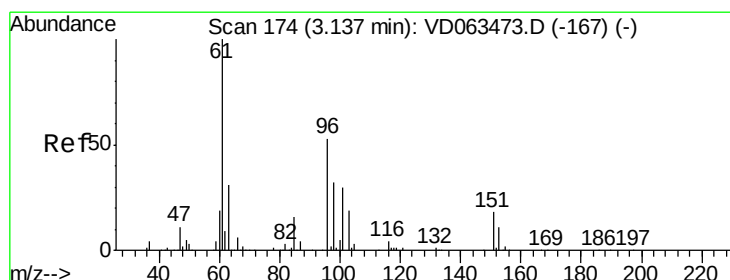
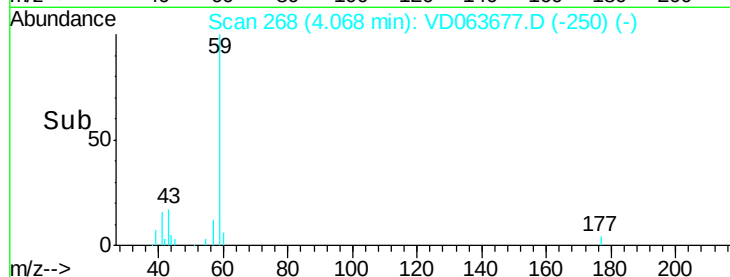
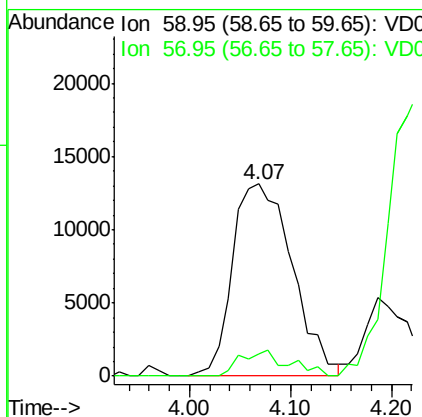
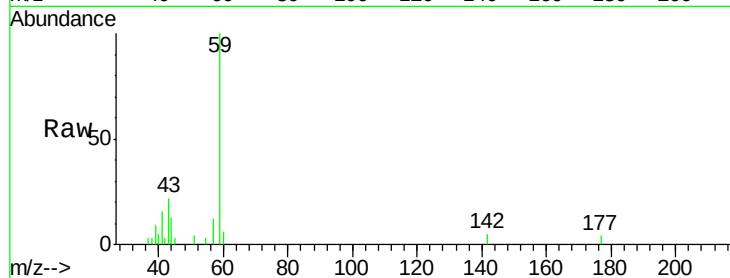


#11

Tert butyl alcohol
Concen: 110.006 ug/l
RT: 4.07 min Scan# 268
Delta R.T. -0.02 min
Lab File: VD063677.D
Acq: 20 Aug 2019 11:49

Instrument :
MSVOA_D
ClientSampleId :
VD0820SBSD01

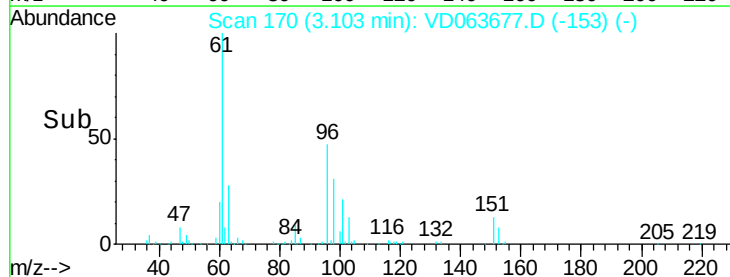
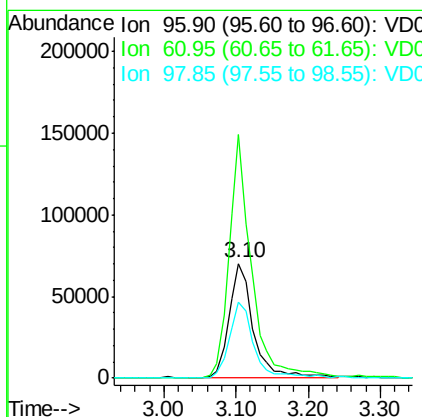
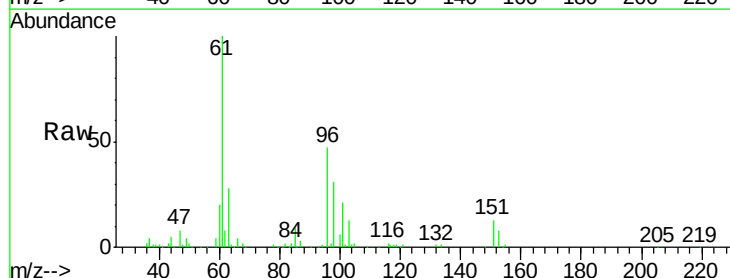
Tot Ion: 59 Resp: 53861
Ion Ratio Lower Upper
59 100
57 11.8 8.7 13.1

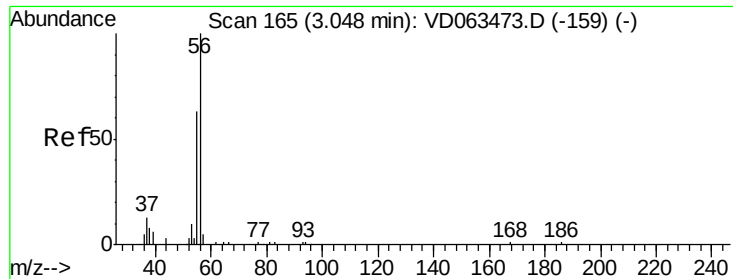


#12

1,1-Dichloroethene
Concen: 19.639 ug/l
RT: 3.10 min Scan# 170
Delta R.T. -0.03 min
Lab File: VD063677.D
Acq: 20 Aug 2019 11:49

Tgt Ion: 96 Resp: 166976
Ion Ratio Lower Upper
96 100
61 212.1 151.7 227.5
98 66.0 48.4 72.6





#13

Acrolein

Concen: 67.689 ug/l

RT: 3.01 min Scan# 161

Delta R.T. -0.03 min

Lab File: VD063677.D

Acq: 20 Aug 2019 11:49

Instrument :

MSVOA_D

ClientSampleId :

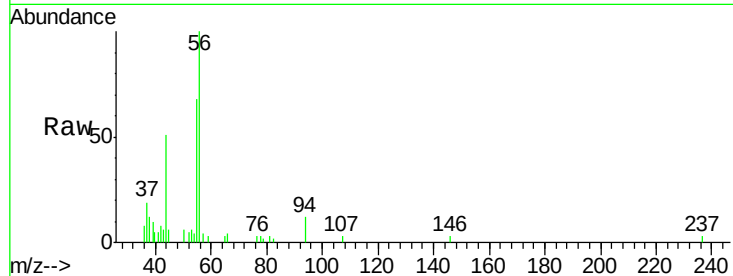
VD0820SBSD01

Tot Ion: 56 Resp: 32622

Ion Ratio Lower Upper

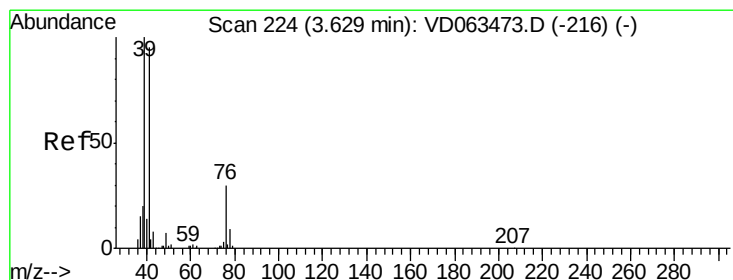
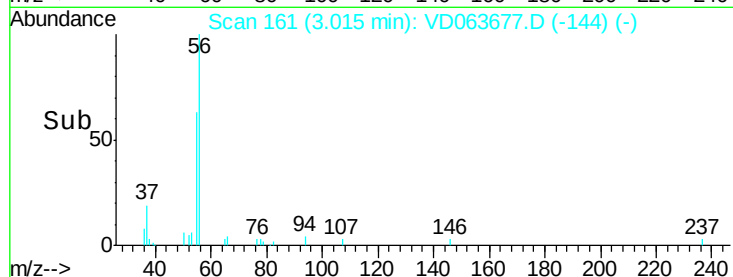
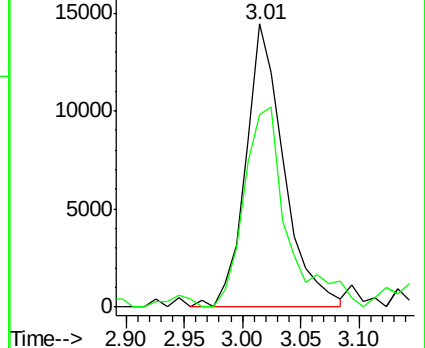
56 100

55 68.2 51.3 76.9



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 21.644 ug/l

RT: 3.60 min Scan# 220

Delta R.T. -0.03 min

Lab File: VD063677.D

Acq: 20 Aug 2019 11:49

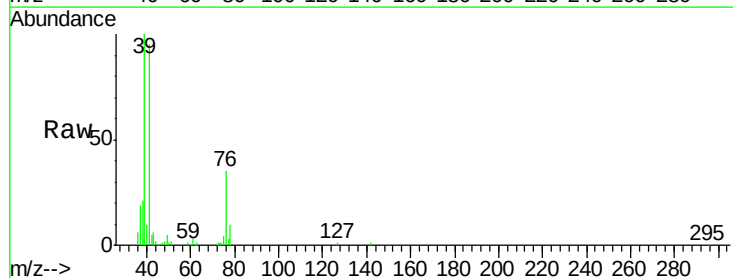
Tgt Ion: 41 Resp: 276637

Ion Ratio Lower Upper

41 100

39 105.3 84.2 126.4

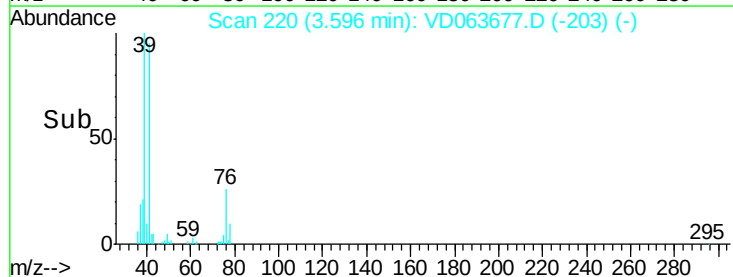
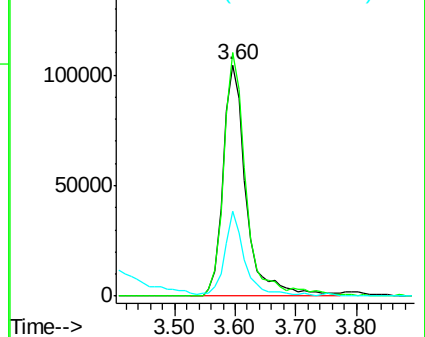
76 36.5 26.0 39.0

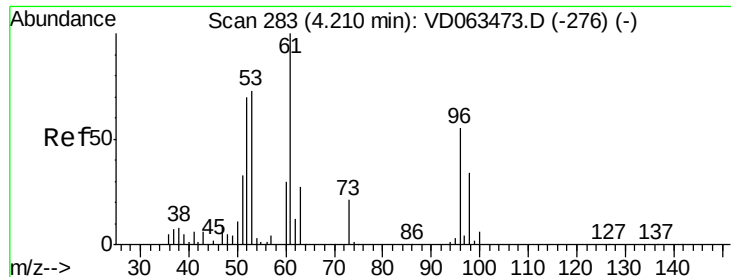


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 99.370 ug/l

RT: 4.18 min Scan# 279

Delta R.T. -0.03 min

Lab File: VD063677.D

Acq: 20 Aug 2019 11:49

Instrument :

MSVOA_D

ClientSampleId :

VD0820SBSD01

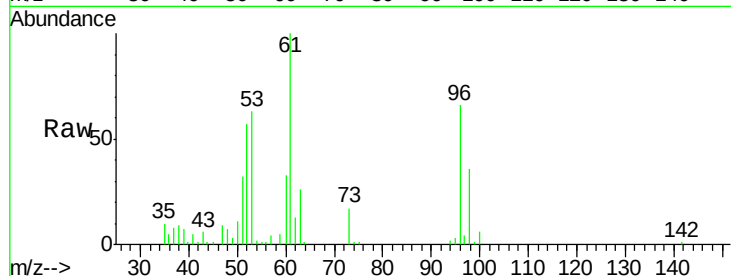
Tot Ion: 53 Resp: 128871

Ion Ratio Lower Upper

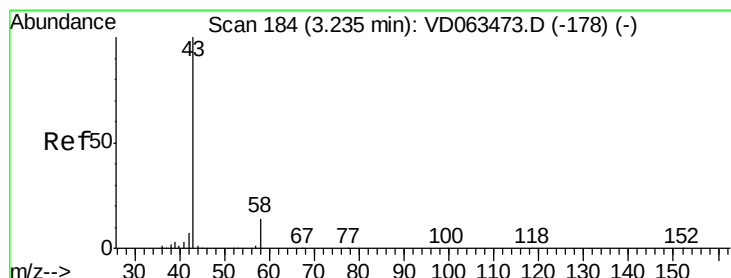
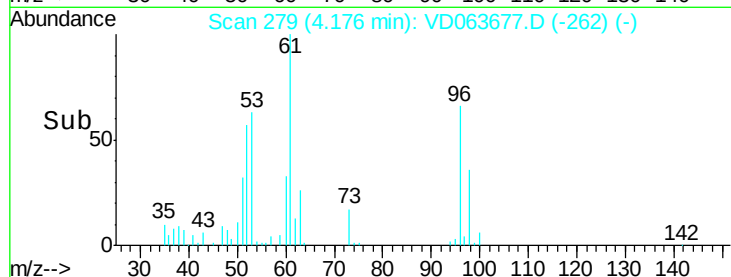
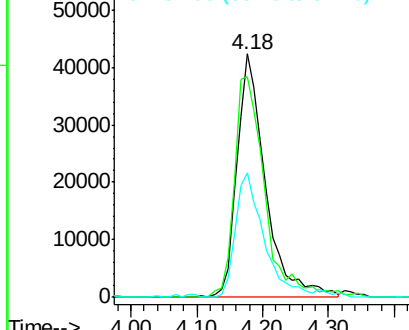
53 100

52 90.4 77.4 116.0

51 51.2 36.7 55.1



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: 96.199 ug/l

RT: 3.20 min Scan# 180

Delta R.T. -0.03 min

Lab File: VD063677.D

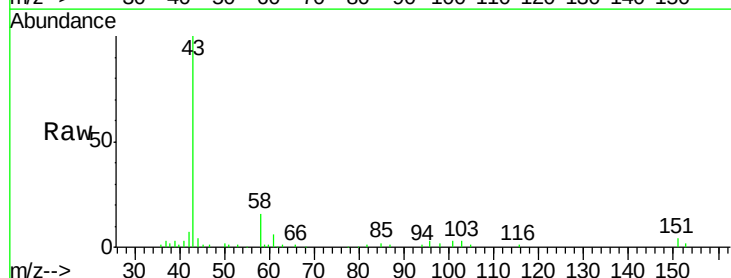
Acq: 20 Aug 2019 11:49

Tgt Ion: 43 Resp: 219944

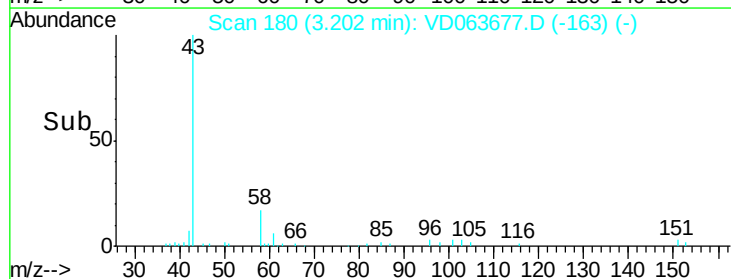
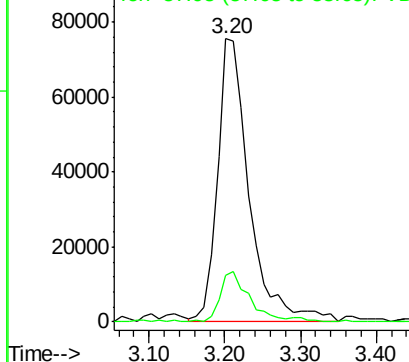
Ion Ratio Lower Upper

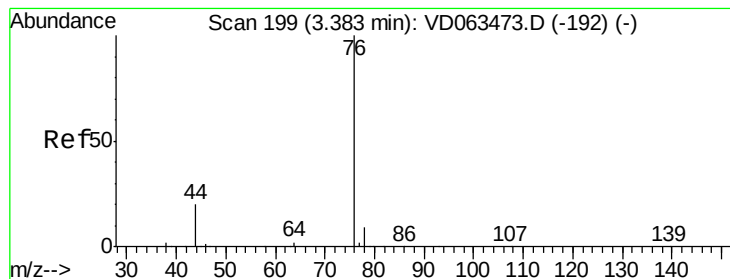
43 100

58 16.3 11.4 17.2



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





#17

Carbon Disulfide

Concen: 19.590 ug/l

RT: 3.35 min Scan# 195

Delta R.T. -0.03 min

Lab File: VD063677.D

Acq: 20 Aug 2019 11:49

Instrument :

MSVOA_D

ClientSampleId :

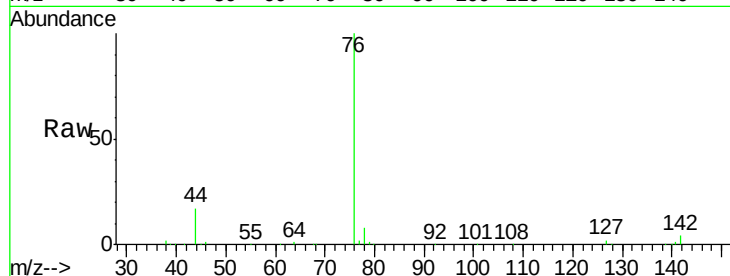
VD0820SBSD01

Tot Ion: 76 Resp: 525664

Ion Ratio Lower Upper

76 100

78 8.5 7.4 11.0



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

3.35

250000

200000

150000

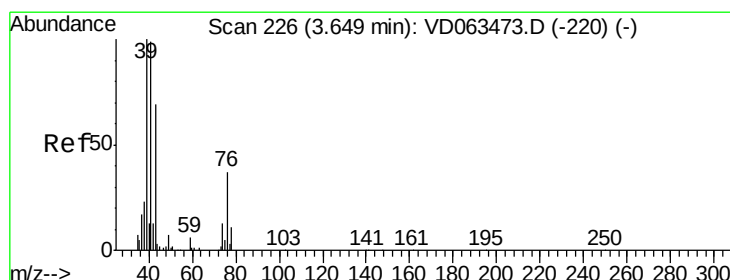
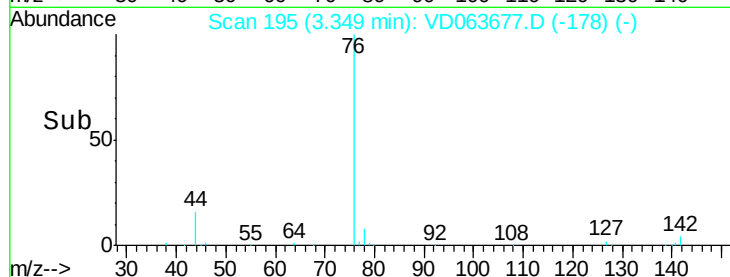
100000

50000

0

Time-->

3.20 3.30 3.40 3.50 3.60



#18

Methyl Acetate

Concen: 19.839 ug/l

RT: 3.63 min Scan# 223

Delta R.T. -0.02 min

Lab File: VD063677.D

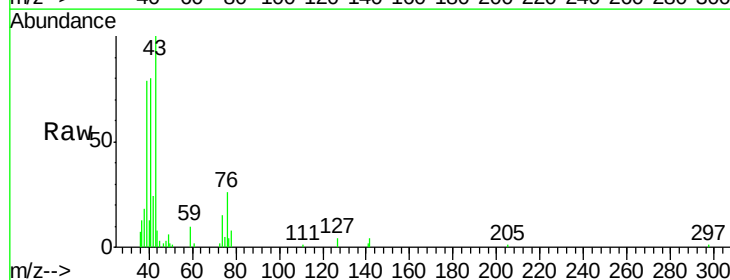
Acq: 20 Aug 2019 11:49

Tgt Ion: 43 Resp: 85915

Ion Ratio Lower Upper

43 100

74 15.3 15.4 23.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

3.63

30000

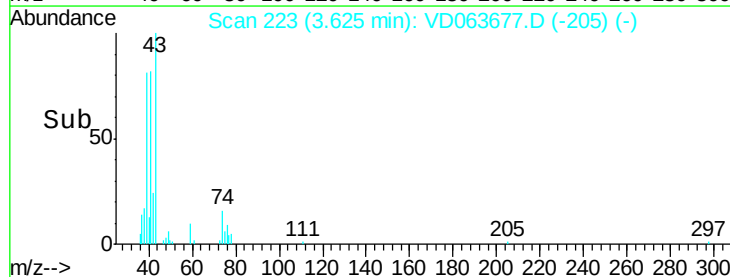
20000

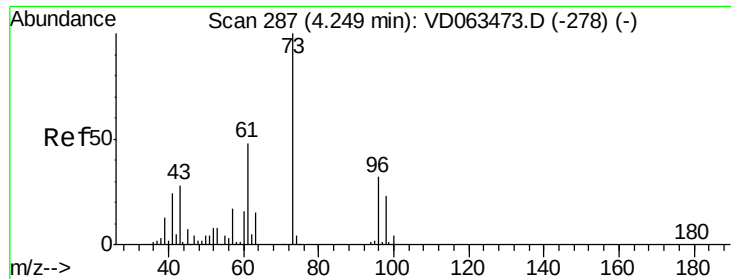
10000

0

Time-->

3.50 3.60 3.70

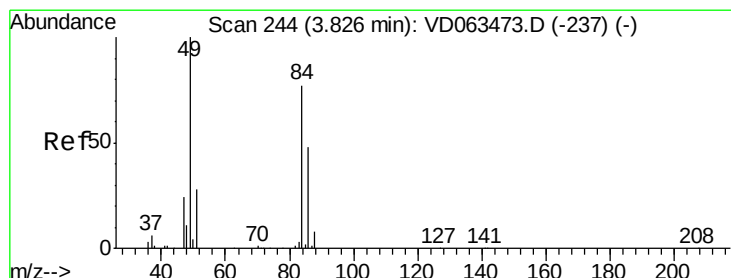
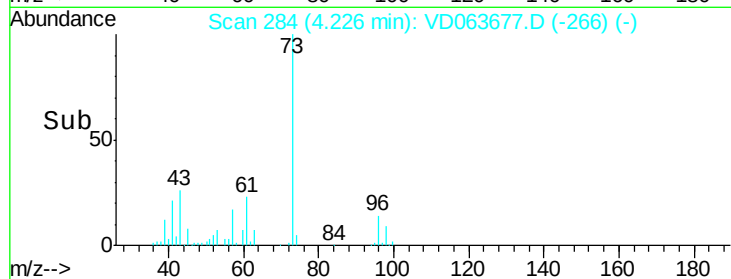
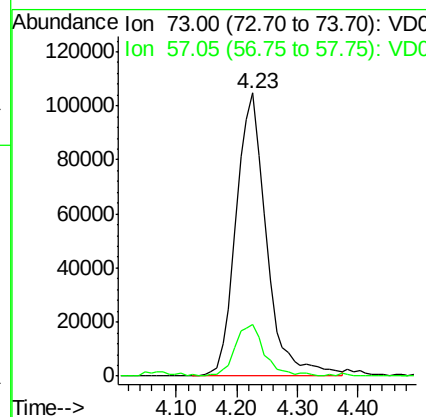
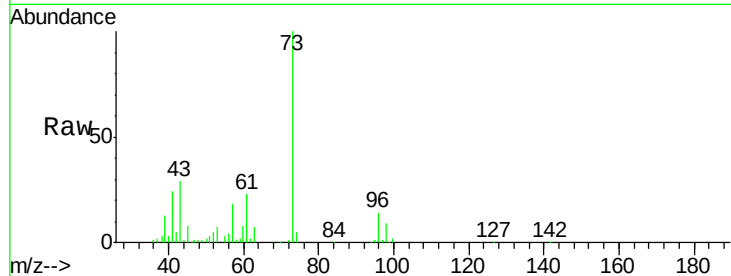




#19
Methyl tert-butyl Ether
Concen: 21.517 ug/l
RT: 4.23 min Scan# 284
Delta R.T. -0.02 min
Lab File: VD063677.D
Acq: 20 Aug 2019 11:49

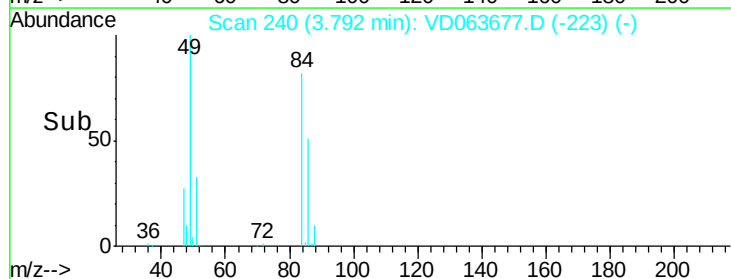
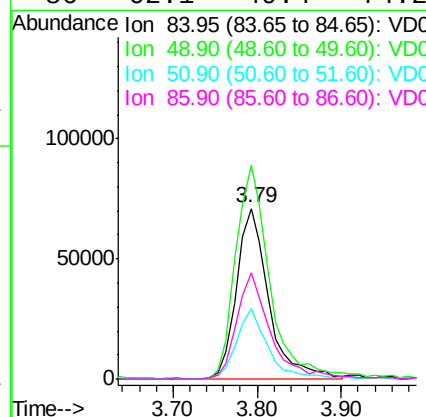
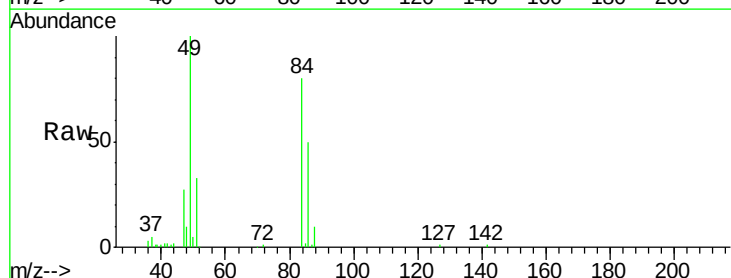
Instrument :
MSVOA_D
ClientSampleId :
VD0820SBS01

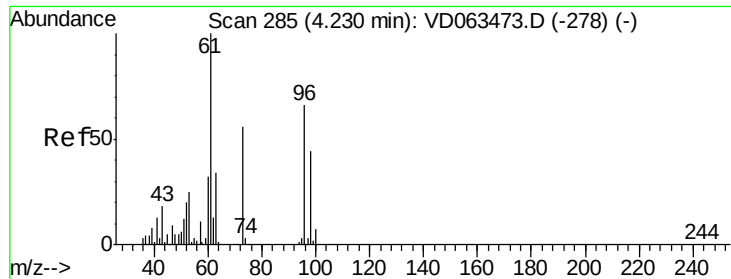
Tot Ion: 73 Resp: 365858
Ion Ratio Lower Upper
73 100
57 18.5 14.0 21.0



#20
Methylene Chloride
Concen: 19.161 ug/l
RT: 3.79 min Scan# 240
Delta R.T. -0.03 min
Lab File: VD063677.D
Acq: 20 Aug 2019 11:49

Tgt Ion: 84 Resp: 189437
Ion Ratio Lower Upper
84 100
49 125.1 103.4 155.2
51 41.0 28.5 42.7
86 62.1 49.4 74.2





#21

trans-1,2-Dichloroethene

Concen: 22.680 ug/l

RT: 4.20 min Scan# 281

Delta R.T. -0.03 min

Lab File: VD063677.D

Acq: 20 Aug 2019 11:49

Instrument :

MSVOA_D

ClientSampleId :

VD0820SBSD01

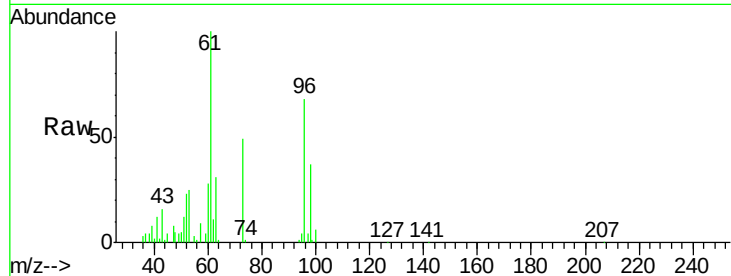
Tot Ion: 96 Resp: 202916

Ion Ratio Lower Upper

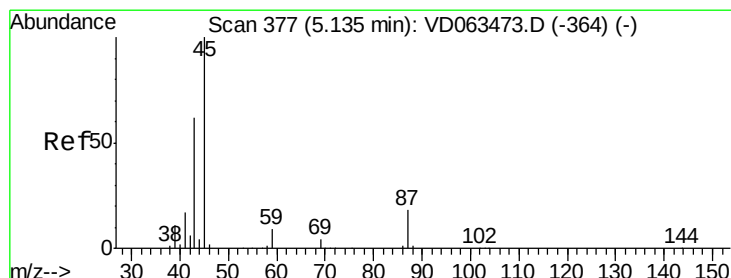
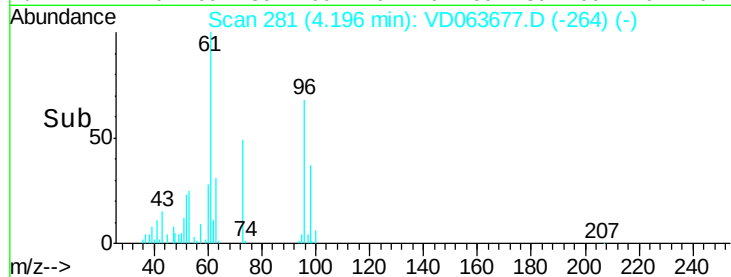
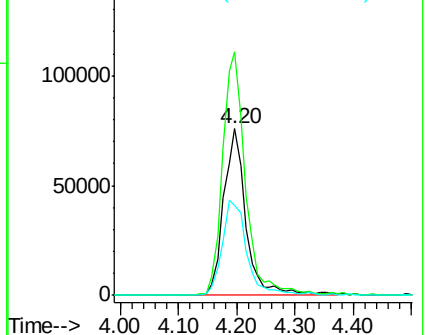
96 100

61 146.3 121.7 182.5

98 54.3 54.2 81.2



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



#22

Diisopropyl ether

Concen: 20.369 ug/l

RT: 5.10 min Scan# 373

Delta R.T. -0.03 min

Lab File: VD063677.D

Acq: 20 Aug 2019 11:49

Tgt Ion: 45 Resp: 537219

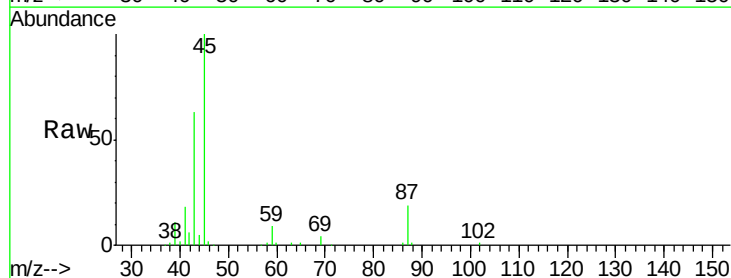
Ion Ratio Lower Upper

45 100

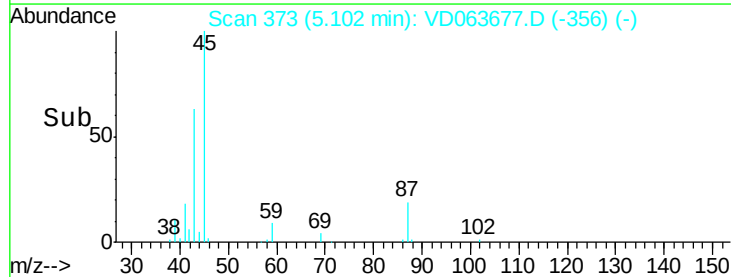
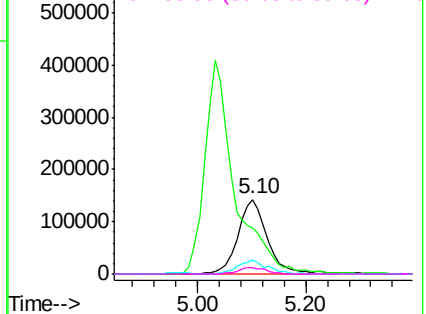
43 62.5 50.3 75.5

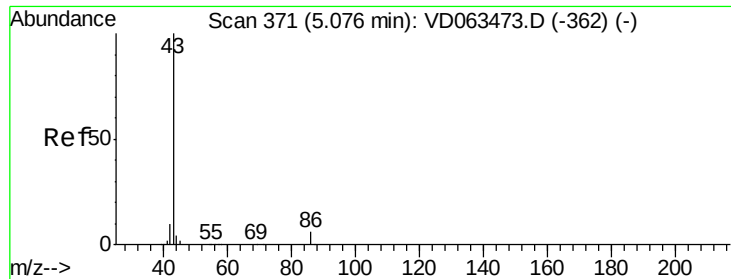
87 18.6 14.3 21.5

59 9.3 7.7 11.5



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: 101.910 ug/l

RT: 5.03 min Scan# 366

Delta R.T. -0.04 min

Lab File: VD063677.D

Acq: 20 Aug 2019 11:49

Instrument :

MSVOA_D

ClientSampleId :

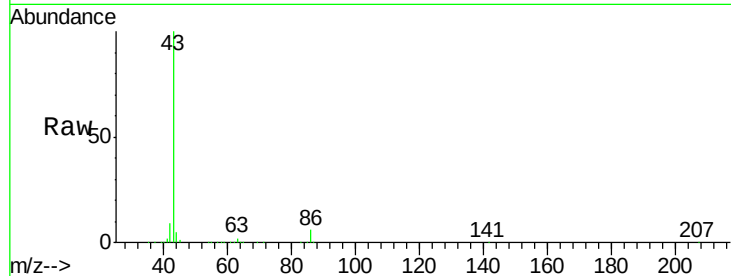
VD0820SBS01

Tot Ion: 43 Resp: 1562585

Ion Ratio Lower Upper

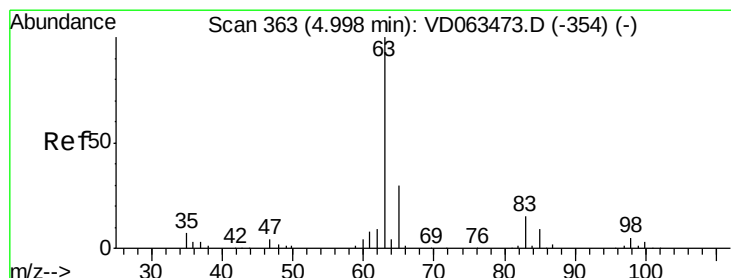
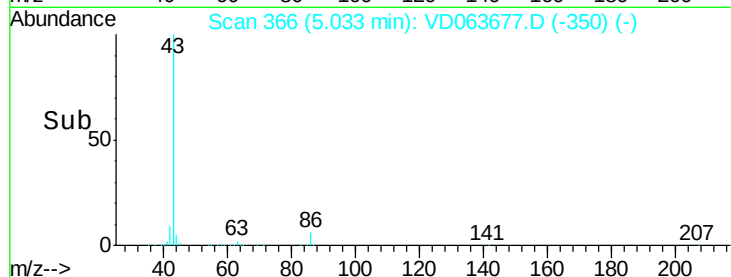
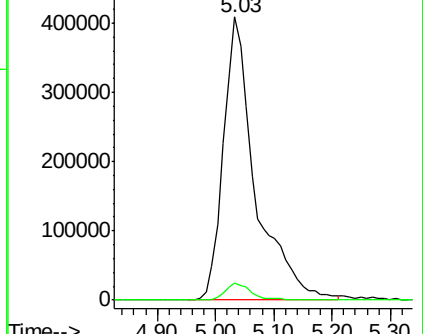
43 100

86 6.1 4.8 7.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 21.863 ug/l

RT: 4.95 min Scan# 358

Delta R.T. -0.04 min

Lab File: VD063677.D

Acq: 20 Aug 2019 11:49

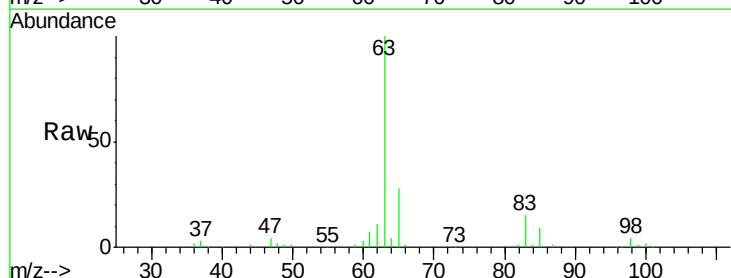
Tgt Ion: 63 Resp: 357643

Ion Ratio Lower Upper

63 100

98 4.2 2.4 7.2

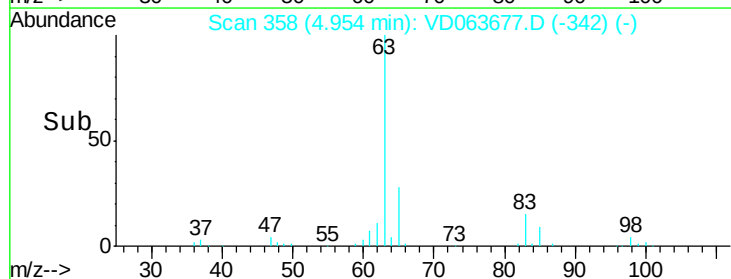
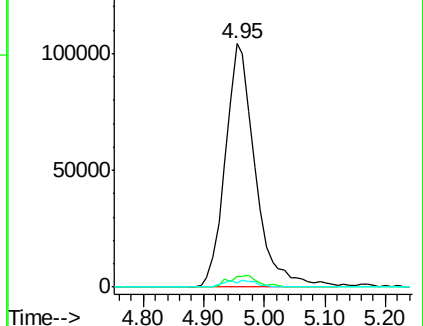
100 1.9 1.3 3.8

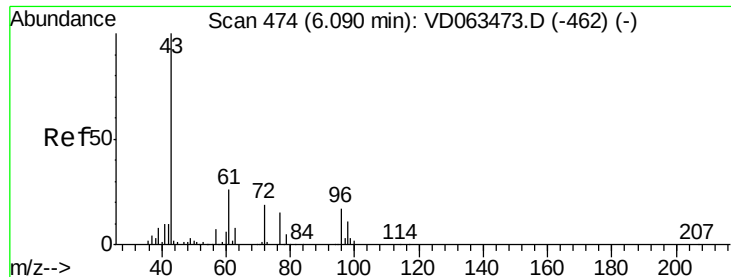


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 96.476 ug/l

RT: 6.06 min Scan# 470

Delta R.T. -0.03 min

Lab File: VD063677.D

Acq: 20 Aug 2019 11:49

Instrument :

MSVOA_D

ClientSampleId :

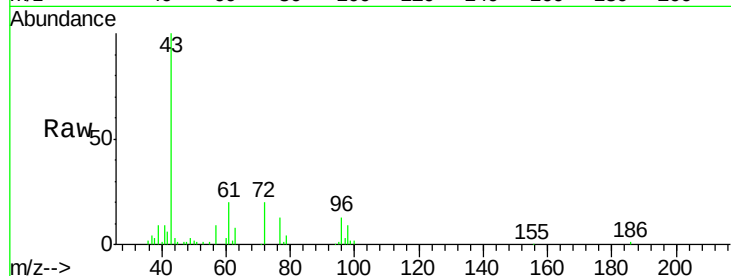
VD0820SBSD01

Tot Ion: 43 Resp: 217850

Ion Ratio Lower Upper

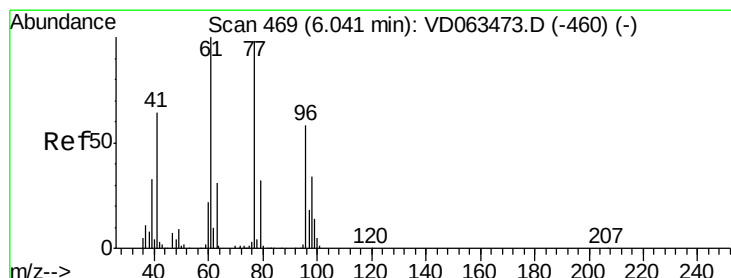
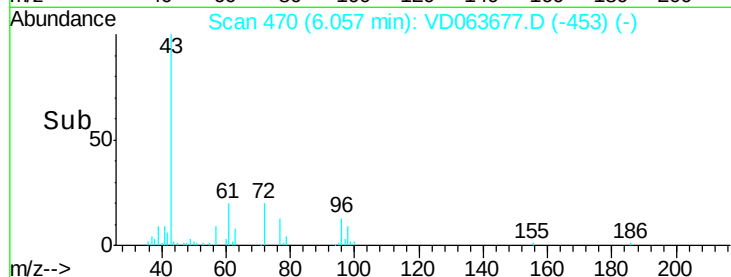
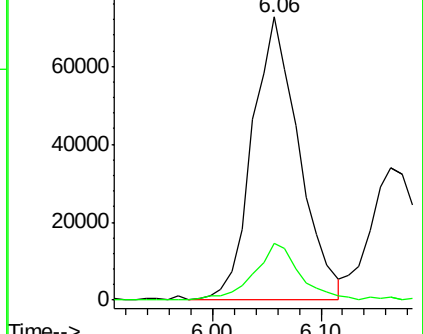
43 100

72 19.9 15.1 22.7



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 22.366 ug/l

RT: 6.00 min Scan# 464

Delta R.T. -0.04 min

Lab File: VD063677.D

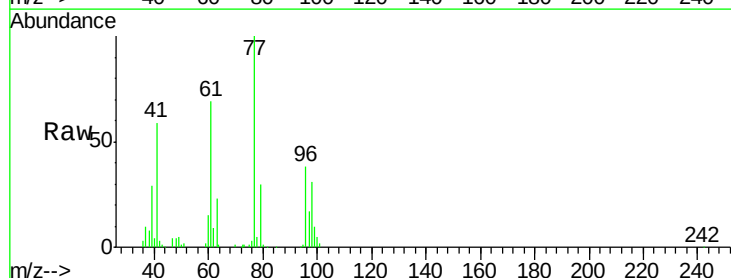
Acq: 20 Aug 2019 11:49

Tgt Ion: 77 Resp: 364427

Ion Ratio Lower Upper

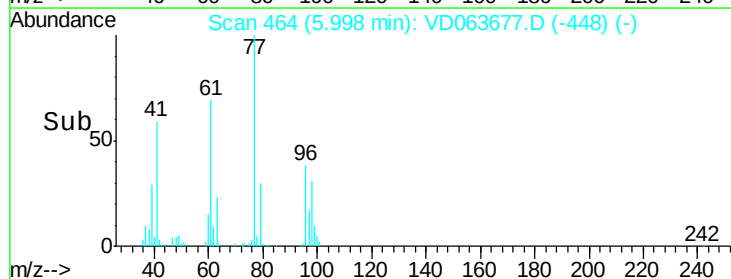
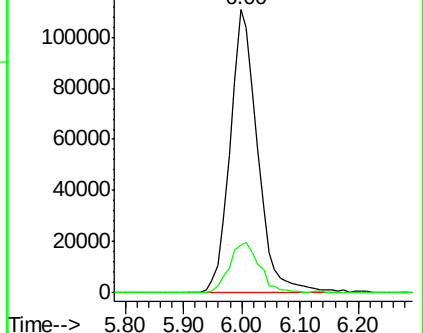
77 100

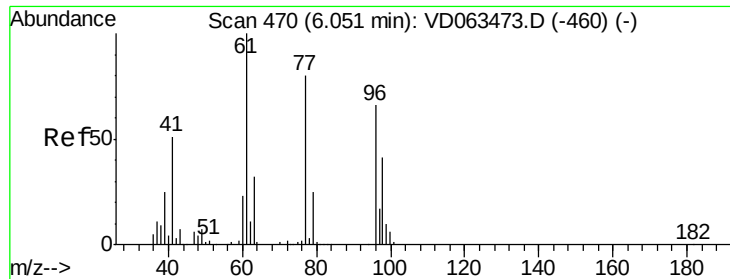
97 17.0 9.0 27.1



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



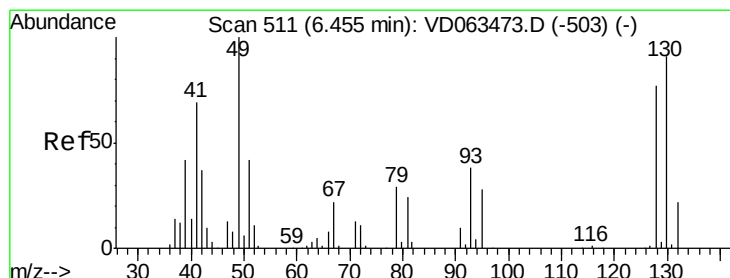
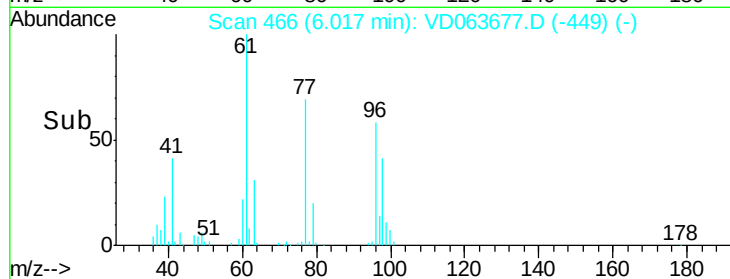
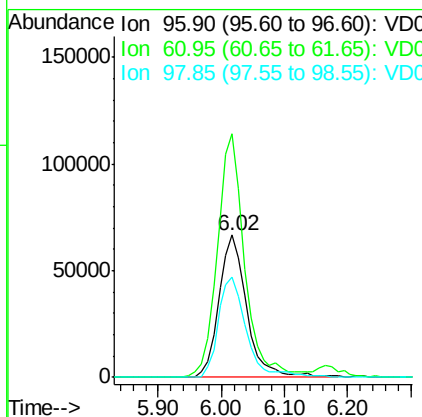
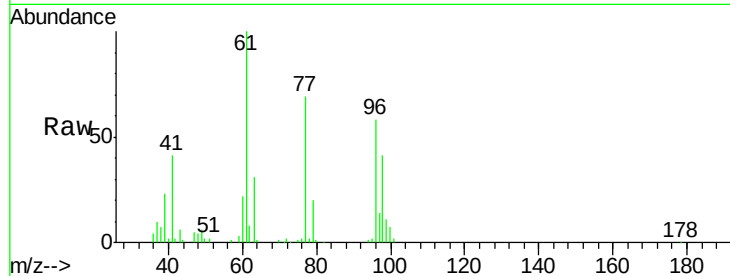


#27

cis-1,2-Dichloroethene
Concen: 20.872 ug/l
RT: 6.02 min Scan# 466
Delta R.T. -0.03 min
Lab File: VD063677.D
Acq: 20 Aug 2019 11:49

Instrument :
MSVOA_D
ClientSampleId :
VD0820SBSD01

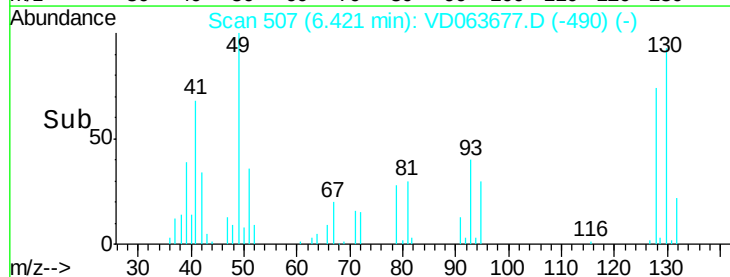
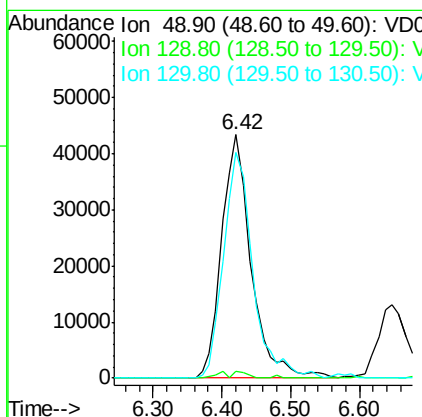
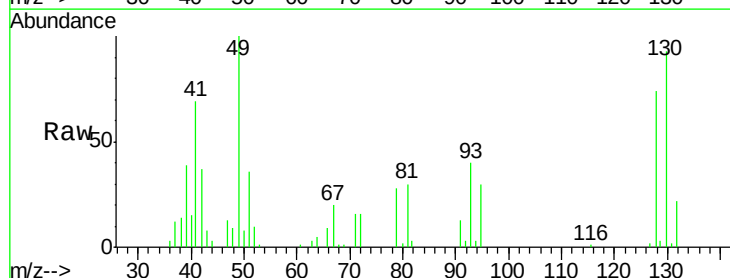
Tot Ion	Ratio	Lower	Upper
96	100		
61	171.6	0.0	304.0
98	70.9	0.0	124.8

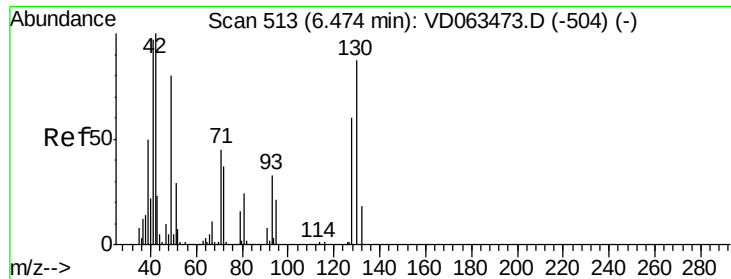


#28

Bromochloromethane
Concen: 19.370 ug/l
RT: 6.42 min Scan# 507
Delta R.T. -0.03 min
Lab File: VD063677.D
Acq: 20 Aug 2019 11:49

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.6	0.0	6.4
130	92.7	72.4	108.6

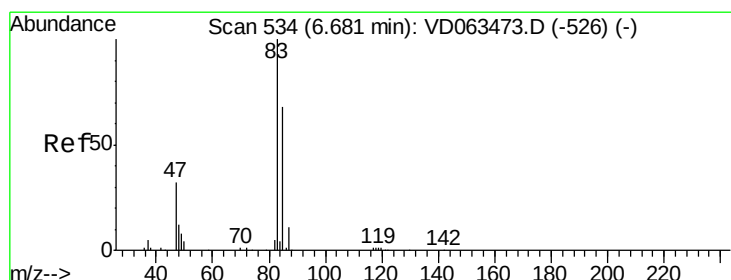
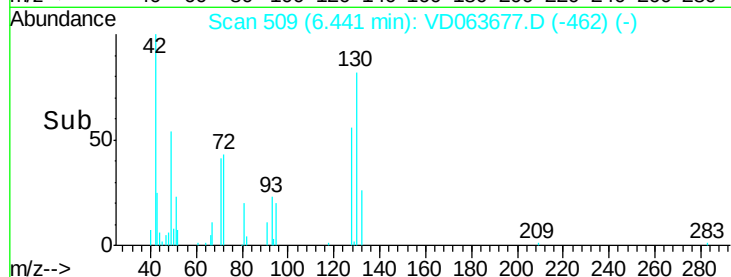
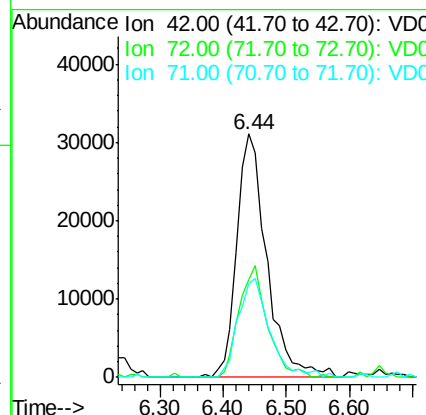
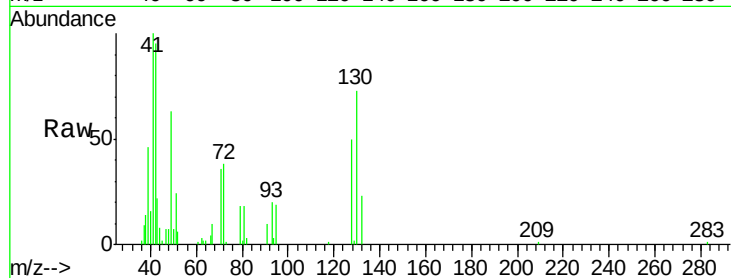




#29
Tetrahydrofuran
Concen: 96.743 ug/l
RT: 6.44 min Scan# 509
Delta R.T. -0.03 min
Lab File: VD063677.D
Acq: 20 Aug 2019 11:49

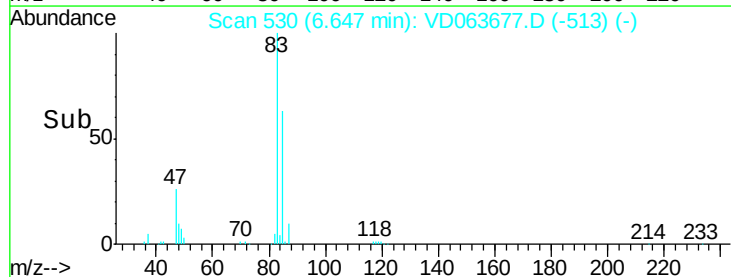
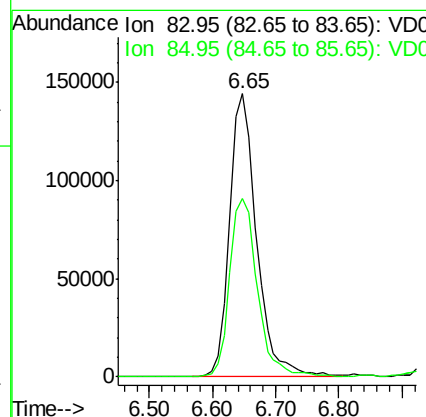
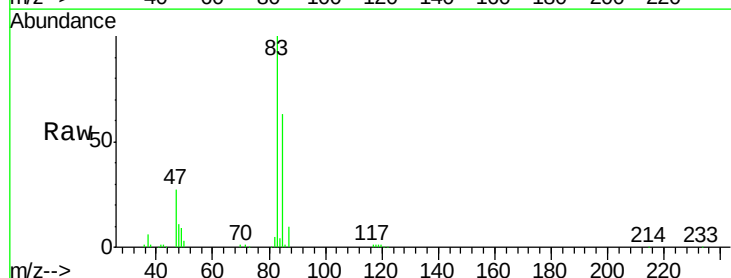
Instrument :
MSVOA_D
ClientSampleId :
VD0820SBSD01

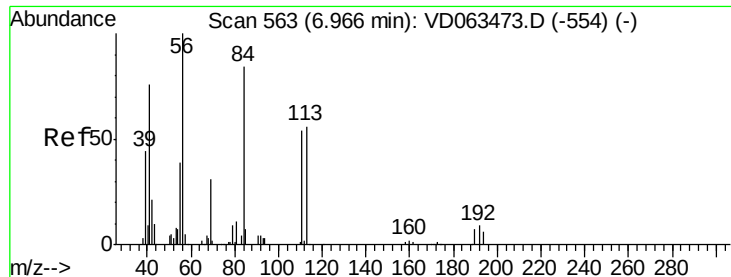
Tot Ion	Ratio	Lower	Upper
42	100		
72	43.6	31.5	47.3
71	43.0	33.8	50.8



#30
Chloroform
Concen: 21.030 ug/l
RT: 6.65 min Scan# 530
Delta R.T. -0.03 min
Lab File: VD063677.D
Acq: 20 Aug 2019 11:49

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.1	54.8	82.2





#31

Cyclohexane

Concen: 21.233 ug/l

RT: 6.93 min Scan# 559

Delta R.T. -0.03 min

Lab File: VD063677.D

Acq: 20 Aug 2019 11:49

Instrument :

MSVOA_D

ClientSampleId :

VD0820SBS01

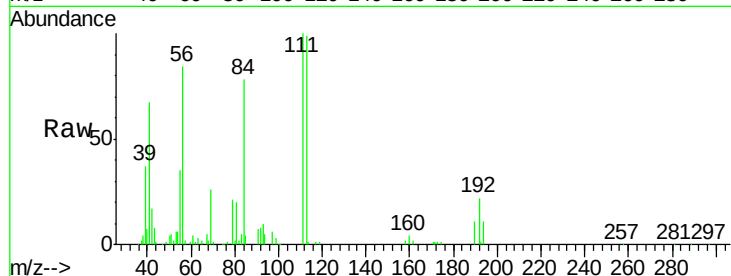
Tot Ion: 56 Resp: 215631

Ion Ratio Lower Upper

56 100

69 31.1 25.0 37.6

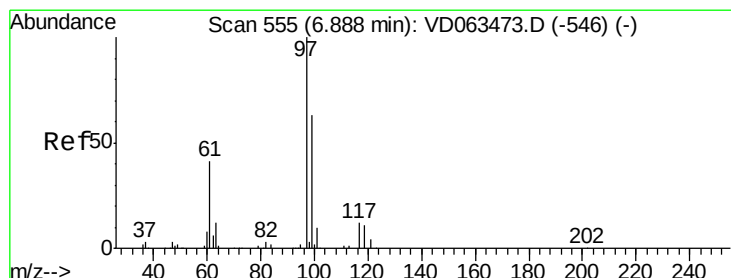
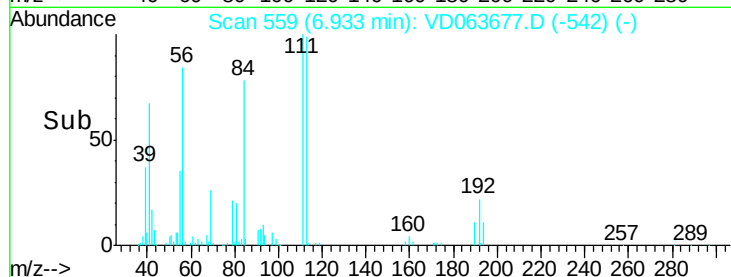
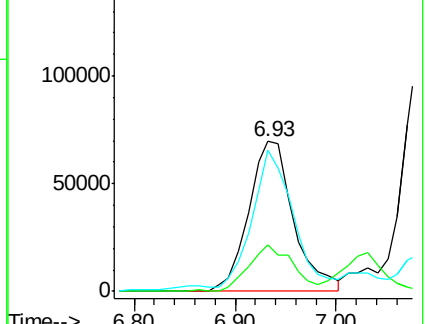
84 93.9 69.7 104.5



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC



#32

1,1,1-Trichloroethane

Concen: 21.618 ug/l

RT: 6.85 min Scan# 551

Delta R.T. -0.03 min

Lab File: VD063677.D

Acq: 20 Aug 2019 11:49

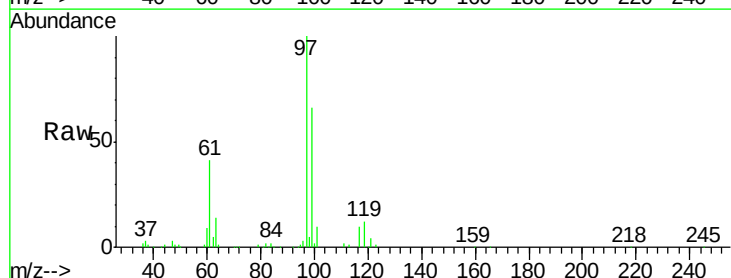
Tgt Ion: 97 Resp: 420473

Ion Ratio Lower Upper

97 100

99 66.3 50.2 75.4

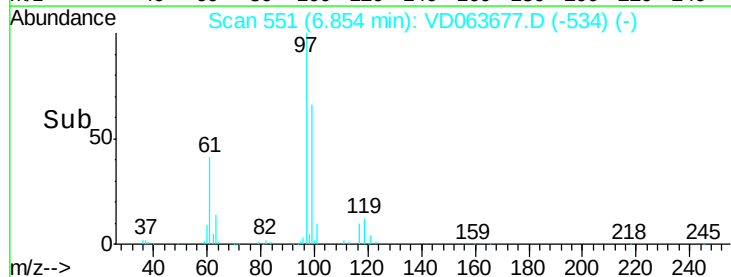
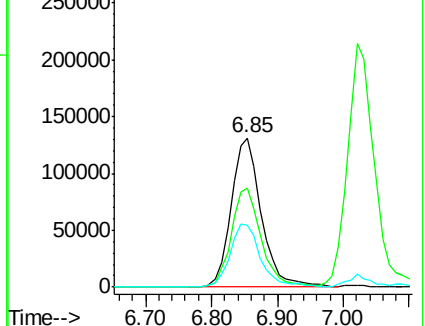
61 41.3 33.1 49.7

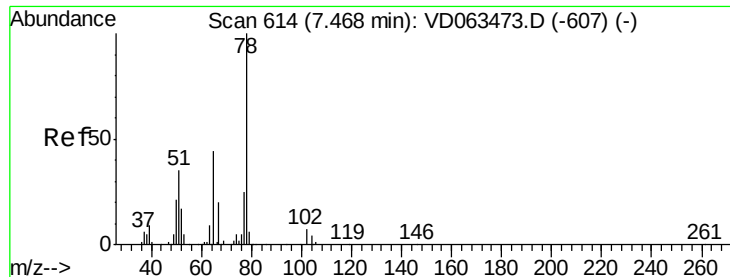


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 98.85 (98.55 to 99.55): VDC

Ion 60.95 (60.65 to 61.65): VDC

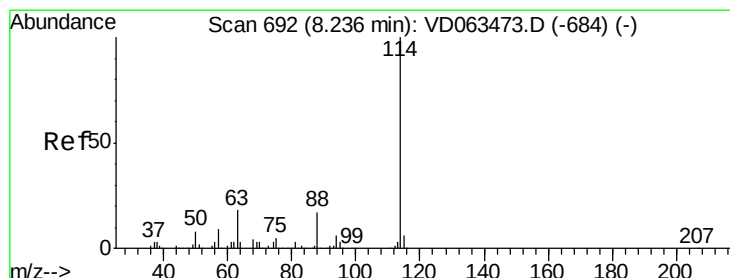
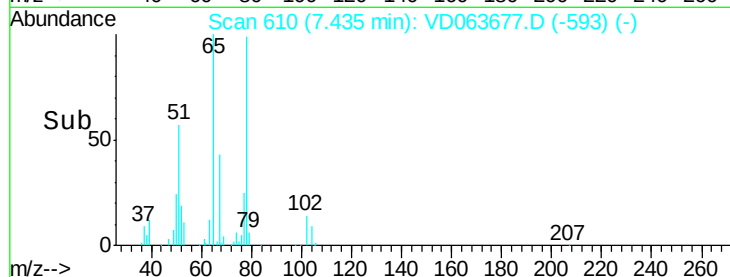
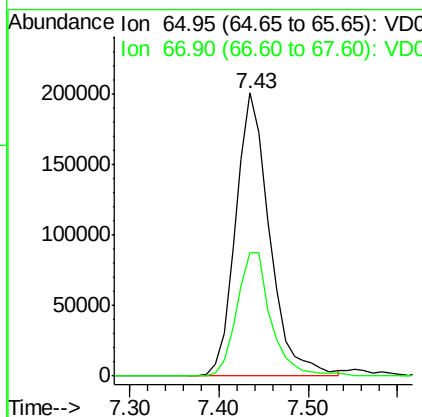
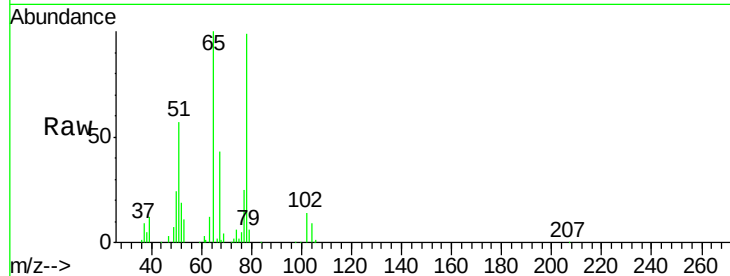




#33
 1,2-Dichloroethane-d4
 Concen: 47.404 ug/l
 RT: 7.43 min Scan# 610
 Delta R.T. -0.03 min
 Lab File: VD063677.D
 Acq: 20 Aug 2019 11:49

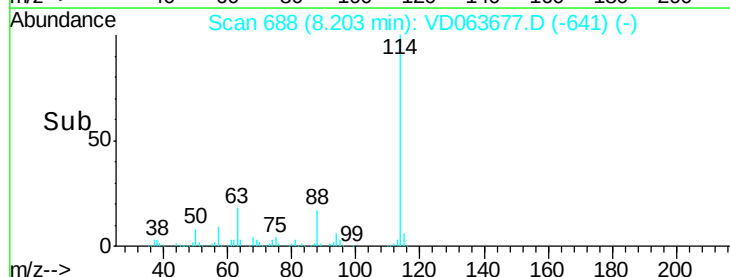
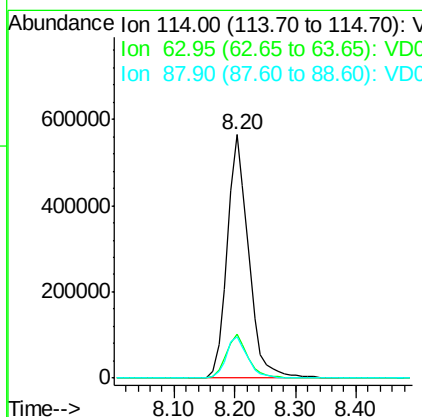
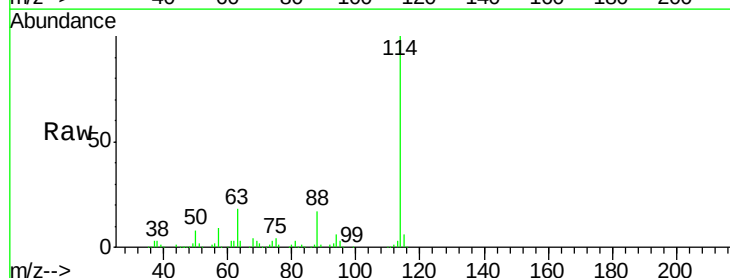
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0820SBSD01

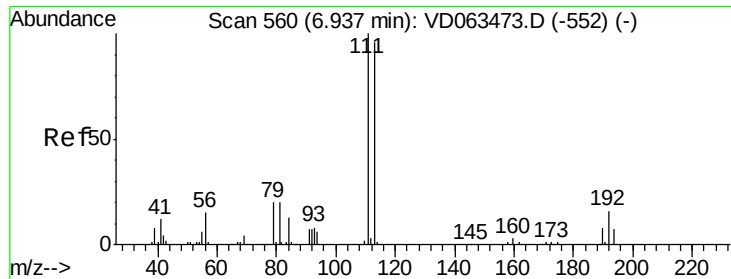
Tot Ion: 65 Resp: 533166
 Ion Ratio Lower Upper
 65 100
 67 43.4 0.0 89.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.20 min Scan# 688
 Delta R.T. -0.03 min
 Lab File: VD063677.D
 Acq: 20 Aug 2019 11:49

Tgt Ion: 114 Resp: 1382390
 Ion Ratio Lower Upper
 114 100
 63 18.2 0.0 36.2
 88 17.0 0.0 35.0





#35

Dibromofluoromethane

Concen: 53.854 ug/l

RT: 6.90 min Scan# 556

Delta R.T. -0.03 min

Lab File: VD063677.D

Acq: 20 Aug 2019 11:49

Instrument :

MSVOA_D

ClientSampleId :

VD0820SBSD01

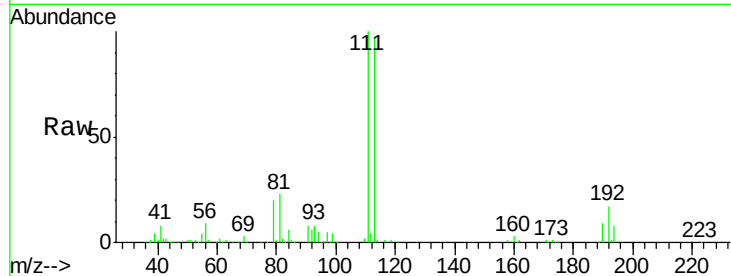
Tot Ion:113 Resp: 626998

Ion Ratio Lower Upper

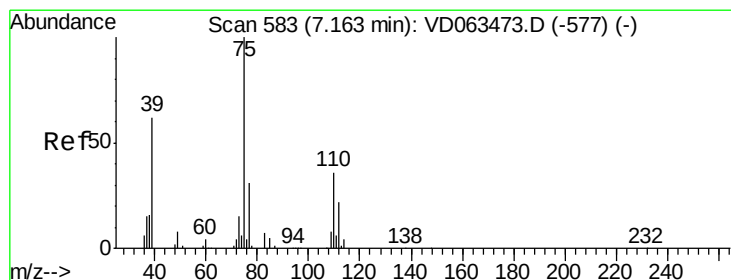
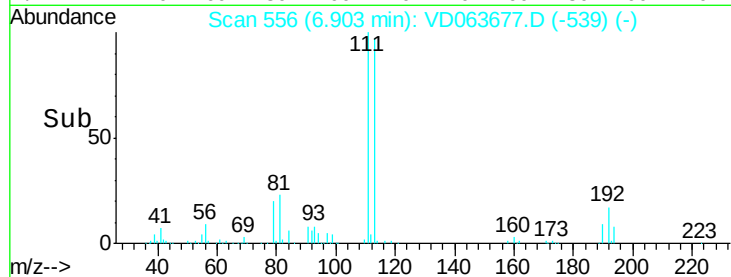
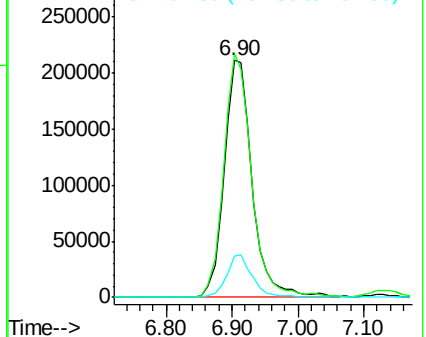
113 100

111 102.8 83.1 124.7

192 17.5 13.1 19.7



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



#36

1,1-Dichloropropene

Concen: 23.843 ug/l

RT: 7.13 min Scan# 579

Delta R.T. -0.03 min

Lab File: VD063677.D

Acq: 20 Aug 2019 11:49

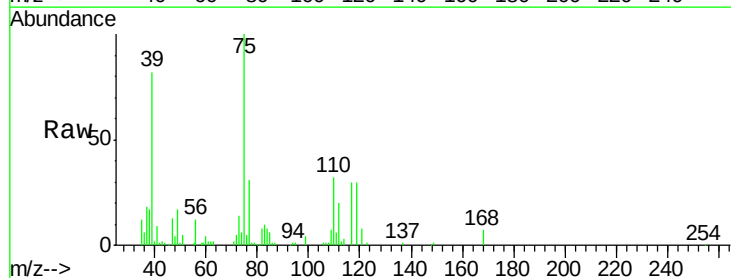
Tgt Ion: 75 Resp: 291376

Ion Ratio Lower Upper

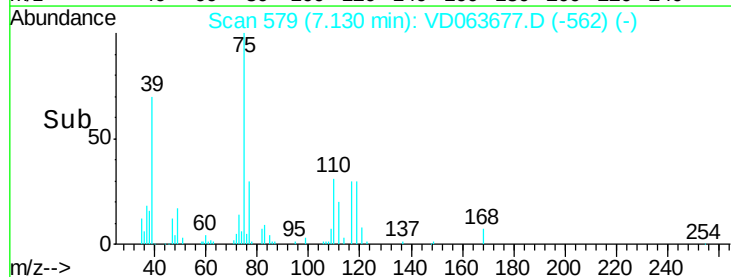
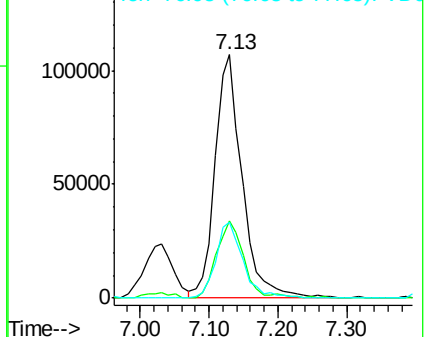
75 100

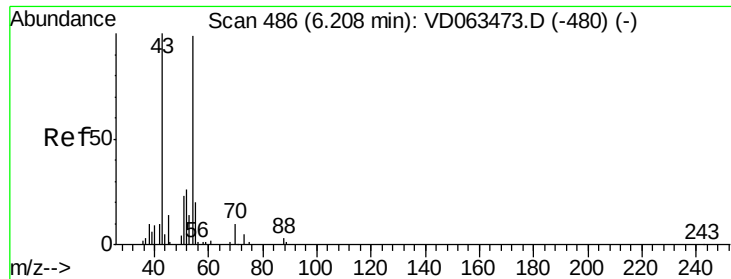
110 31.5 17.6 52.8

77 31.1 24.3 36.5



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

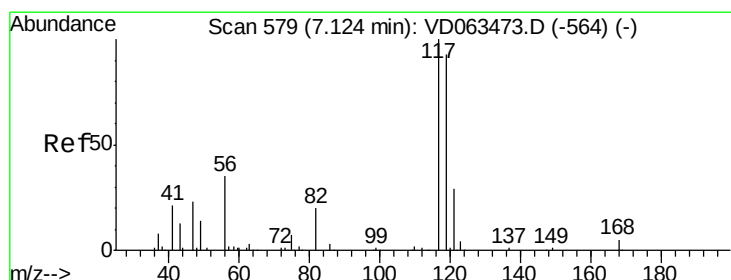
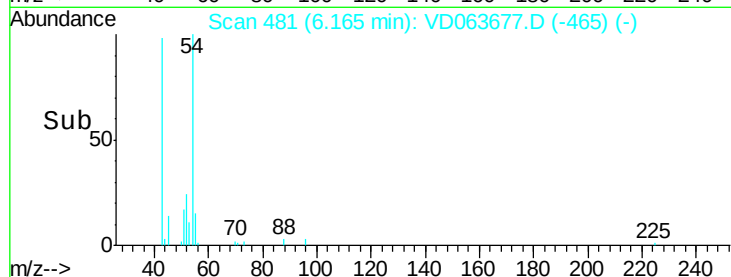
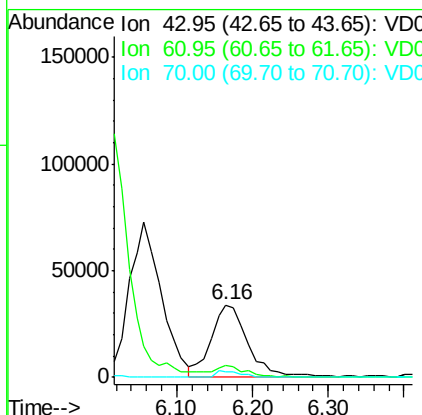
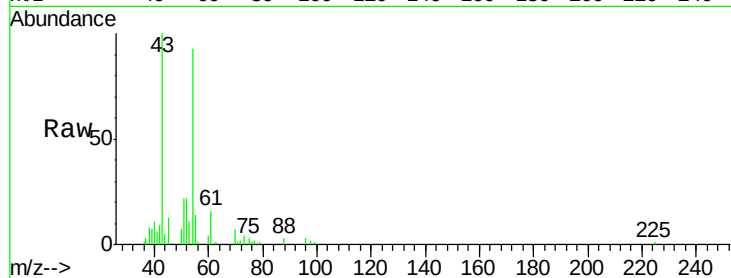




#37
Ethyl Acetate
Concen: 22.020 ug/l
RT: 6.16 min Scan# 481
Delta R.T. -0.04 min
Lab File: VD063677.D
Acq: 20 Aug 2019 11:49

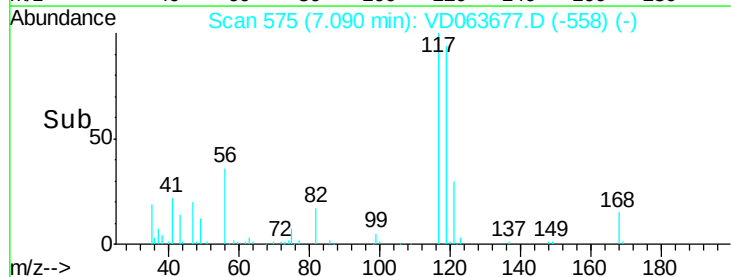
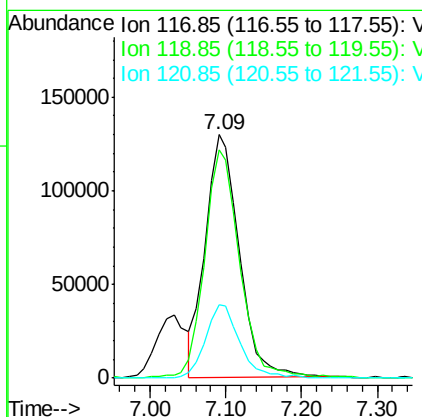
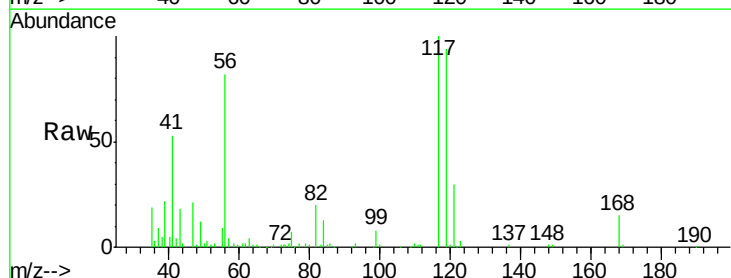
Instrument :
MSVOA_D
ClientSampleId :
VD0820SBSD01

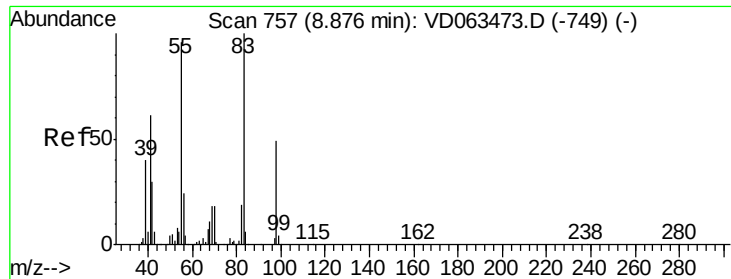
Tot Ion: 43 Resp: 112762
Ion Ratio Lower Upper
43 100
61 16.1 9.0 13.6#
70 8.0 6.9 10.3



#38
Carbon Tetrachloride
Concen: 21.976 ug/l
RT: 7.09 min Scan# 575
Delta R.T. -0.03 min
Lab File: VD063677.D
Acq: 20 Aug 2019 11:49

Tgt Ion: 117 Resp: 404755
Ion Ratio Lower Upper
117 100
119 93.9 74.2 111.2
121 30.1 23.1 34.7

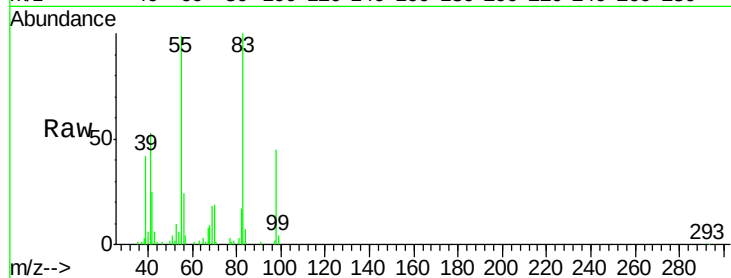




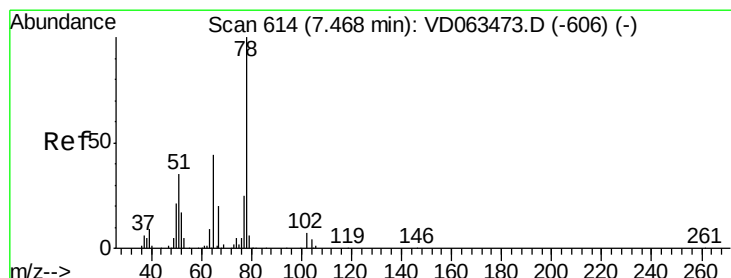
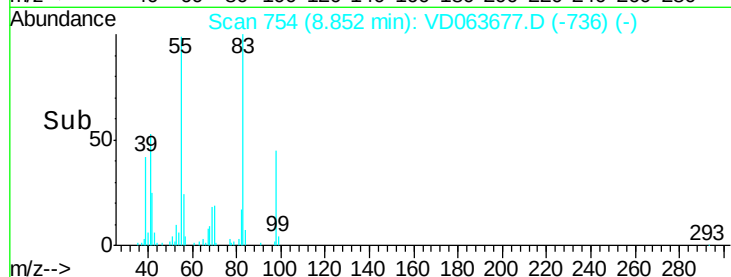
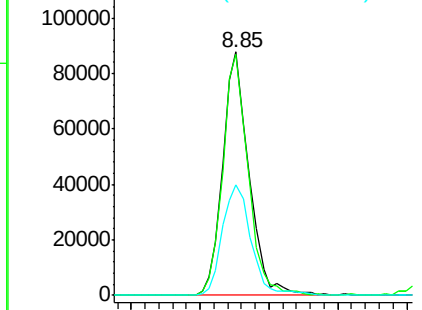
#39
Methylvlcyclohexane
Concen: 22.318 ug/l
RT: 8.85 min Scan# 754
Delta R.T. -0.02 min
Lab File: VD063677.D
Acq: 20 Aug 2019 11:49

Instrument :
MSVOA_D
ClientSampleId :
VD0820SBSD01

Tot Ion	83	Resp	231922
Ion Ratio	Lower	Upper	
83	100		
55	98.9	76.6	114.8
98	45.2	39.4	59.0

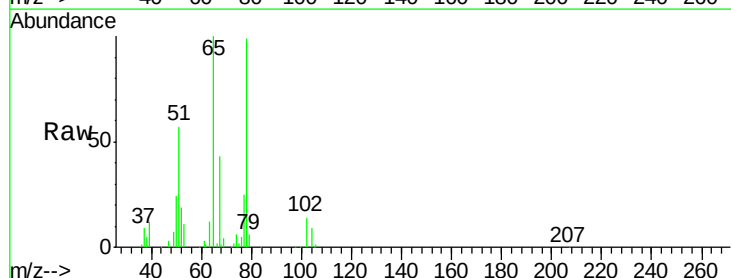


Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC

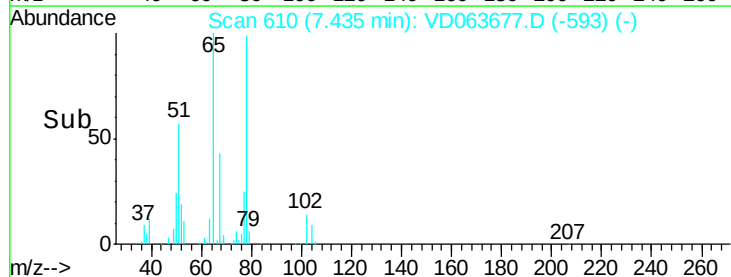
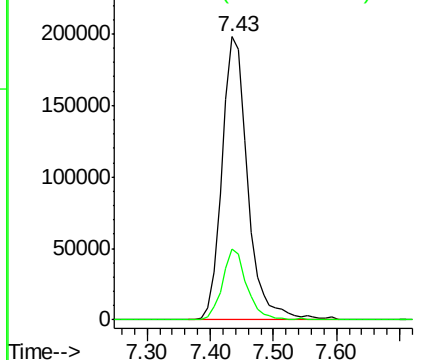


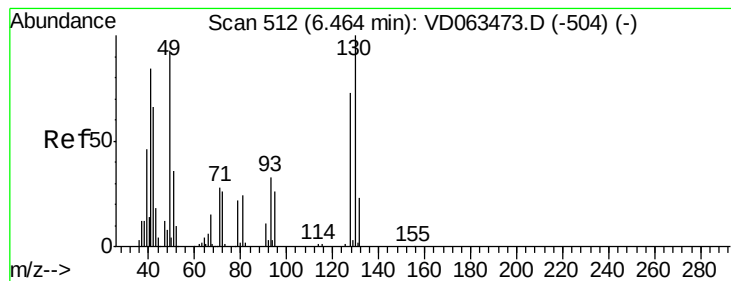
#40
Benzene
Concen: 20.944 ug/l
RT: 7.43 min Scan# 610
Delta R.T. -0.03 min
Lab File: VD063677.D
Acq: 20 Aug 2019 11:49

Tgt Ion	78	Resp	563267
Ion Ratio	Lower	Upper	
78	100		
77	25.0	20.1	30.1



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





#41

Methacrylonitrile

Concen: 21.577 ug/l

RT: 6.44 min Scan# 509

Delta R.T. -0.02 min

Lab File: VD063677.D

Acq: 20 Aug 2019 11:49

Instrument :

MSVOA_D

ClientSampleId :

VD0820SBSD01

Tot Ion: 41 Resp: 139123

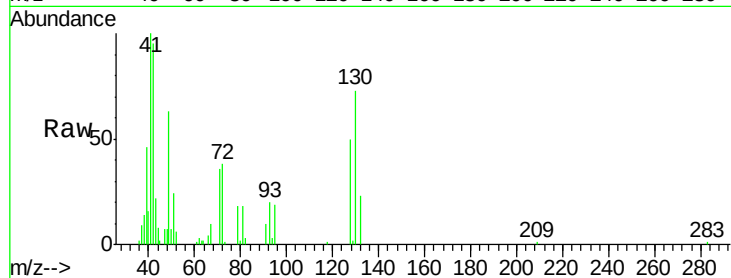
Ion Ratio Lower Upper

41 100

39 46.0 44.6 66.8

67 10.0 14.4 21.6#

52 6.4 9.3 13.9#

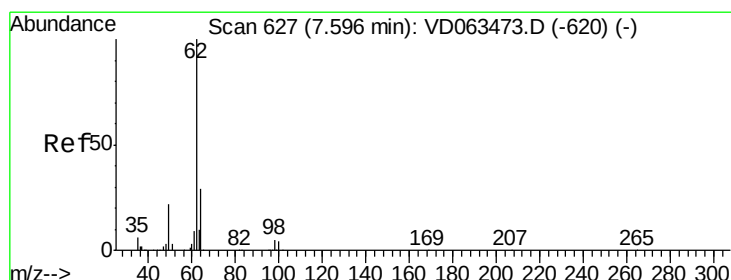
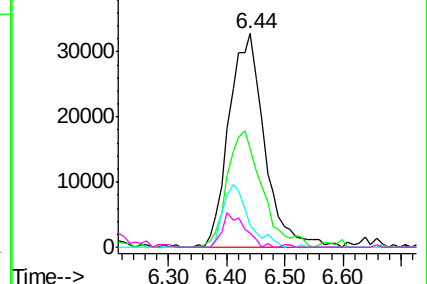
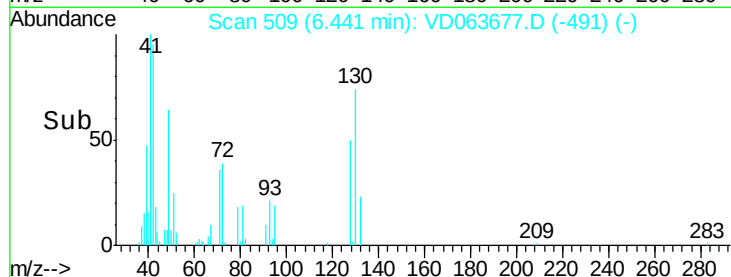


Abundance Ion 40.95 (40.65 to 41.65): VDC

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: 22.245 ug/l

RT: 7.56 min Scan# 623

Delta R.T. -0.03 min

Lab File: VD063677.D

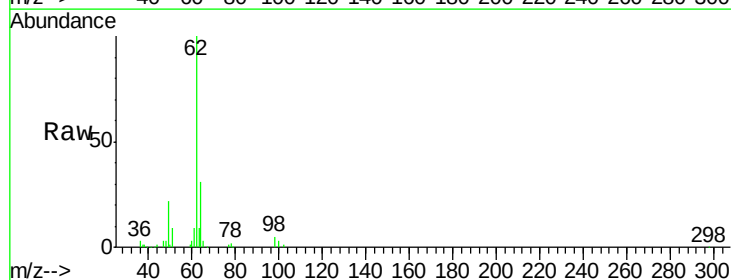
Acq: 20 Aug 2019 11:49

Tgt Ion: 62 Resp: 300807

Ion Ratio Lower Upper

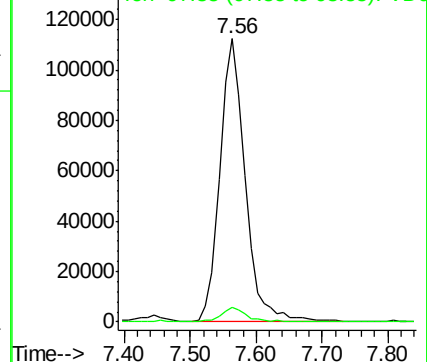
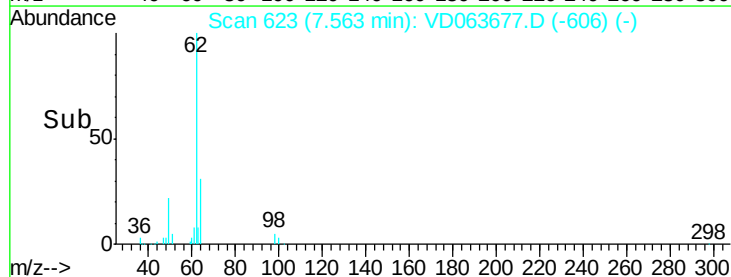
62 100

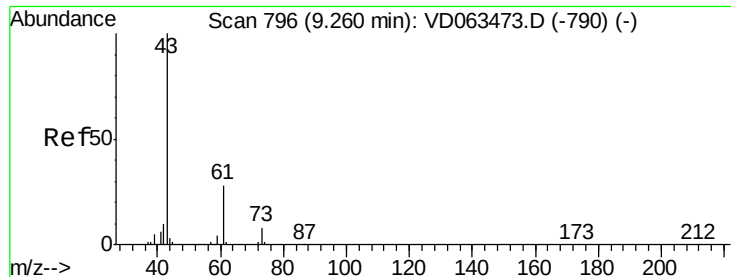
98 5.3 0.0 10.4



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#43

Isopropyl Acetate

Concen: 21.886 ug/l

RT: 9.23 min Scan# 792

Delta R.T. -0.03 min

Lab File: VD063677.D

Acq: 20 Aug 2019 11:49

Instrument :

MSVOA_D

ClientSampleId :

VD0820SBS01

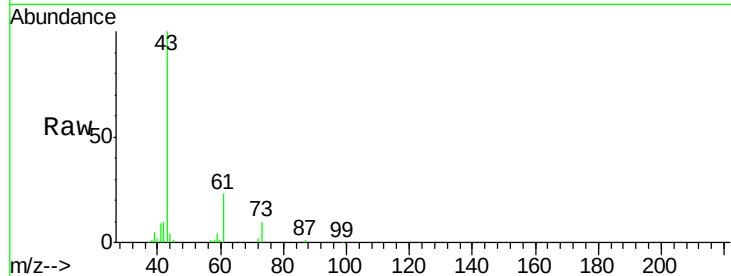
Tot Ion: 43 Resp: 150105

Ion Ratio Lower Upper

43 100

61 23.3 22.2 33.2

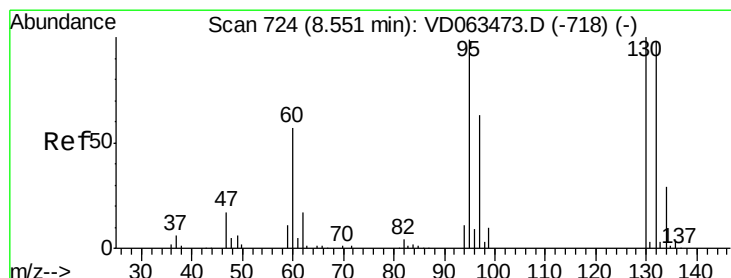
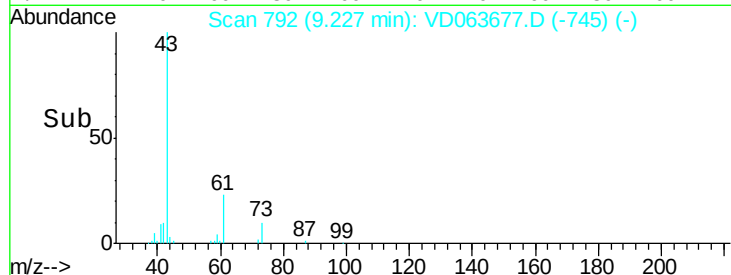
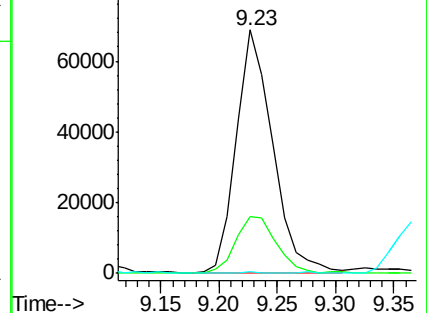
87 0.7 0.2 0.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 22.119 ug/l

RT: 8.53 min Scan# 721

Delta R.T. -0.02 min

Lab File: VD063677.D

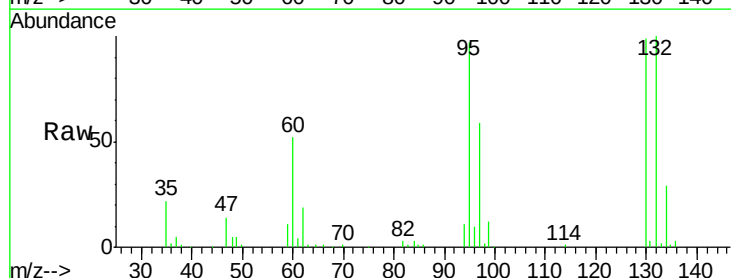
Acq: 20 Aug 2019 11:49

Tgt Ion: 130 Resp: 227361

Ion Ratio Lower Upper

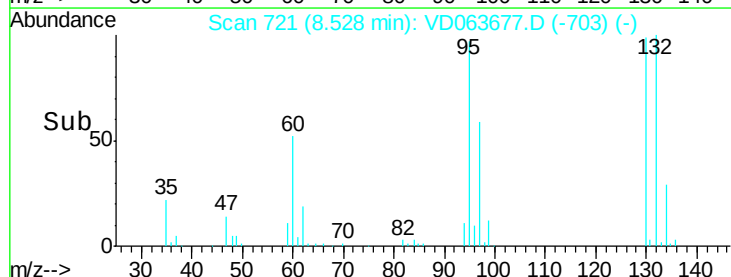
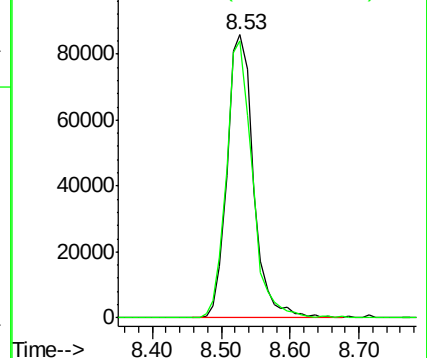
130 100

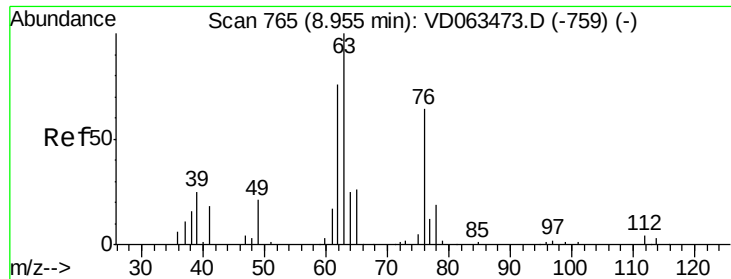
95 97.7 0.0 198.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 23.512 ug/l

RT: 8.93 min Scan# 762

Delta R.T. -0.02 min

Lab File: VD063677.D

Acq: 20 Aug 2019 11:49

Instrument :

MSVOA_D

ClientSampleId :

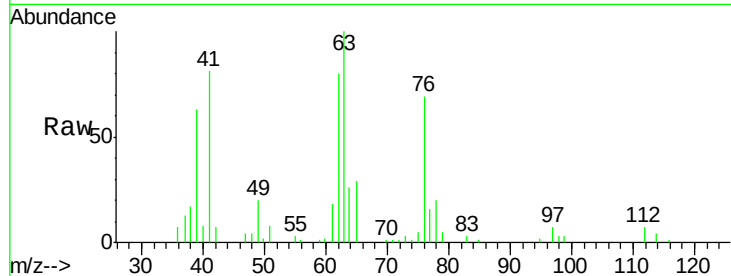
VD0820SBSD01

Tot Ion: 63 Resp: 147252

Ion Ratio Lower Upper

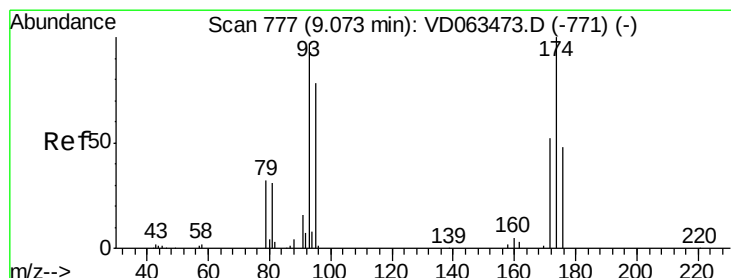
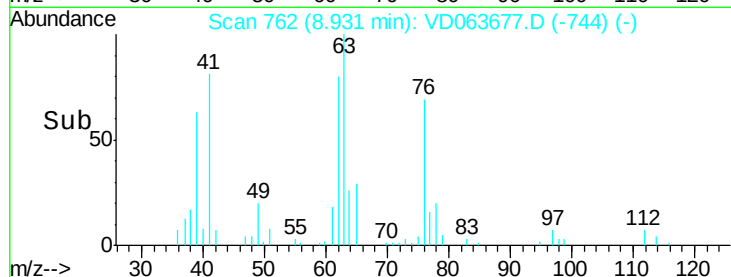
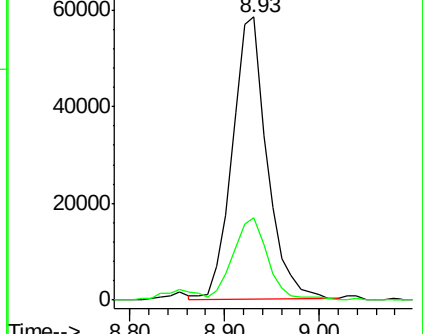
63 100

65 29.3 22.5 33.7



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 20.572 ug/l

RT: 9.05 min Scan# 774

Delta R.T. -0.02 min

Lab File: VD063677.D

Acq: 20 Aug 2019 11:49

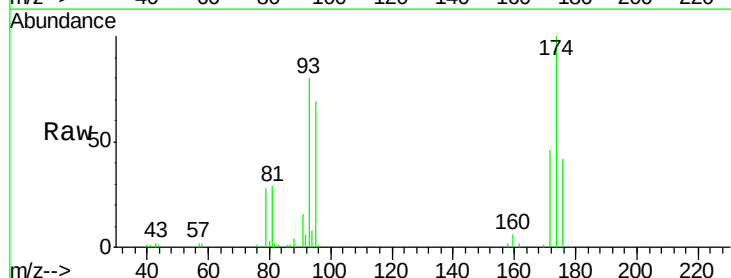
Tgt Ion: 93 Resp: 110025

Ion Ratio Lower Upper

93 100

95 85.8 64.2 96.2

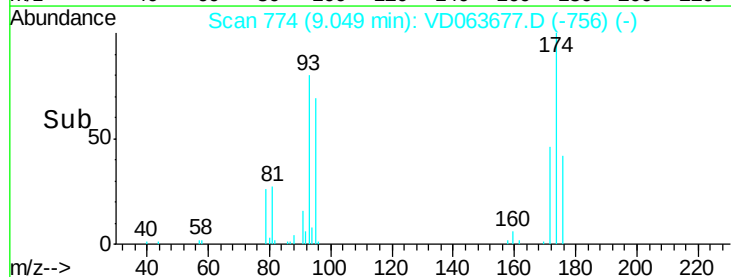
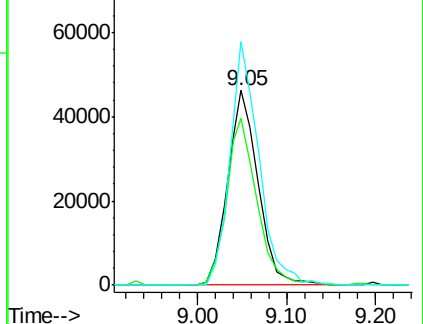
174 125.2 82.1 123.1#

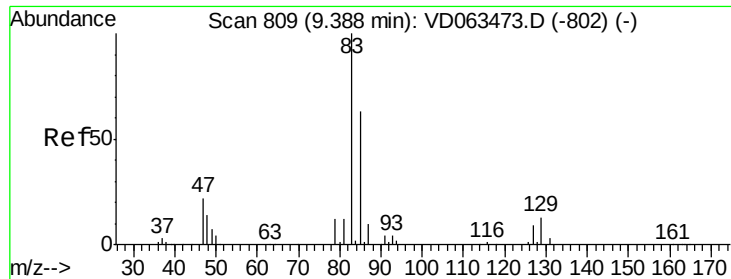


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V





#47

Bromodichloromethane

Concen: 22.707 ug/l

RT: 9.36 min Scan# 806

Delta R.T. -0.02 min

Lab File: VD063677.D

Acq: 20 Aug 2019 11:49

Instrument :

MSVOA_D

ClientSampleId :

VD0820SBSD01

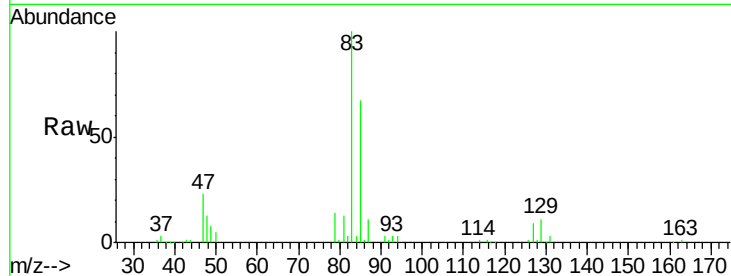
Tot Ion: 83 Resp: 311512

Ion Ratio Lower Upper

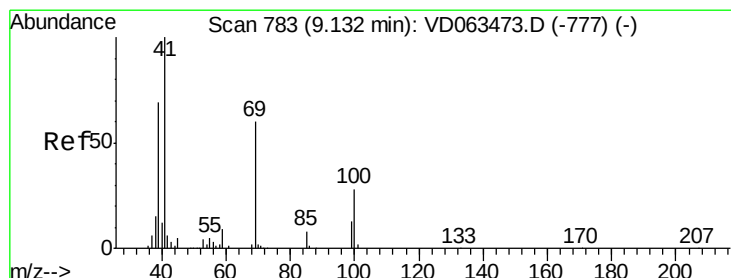
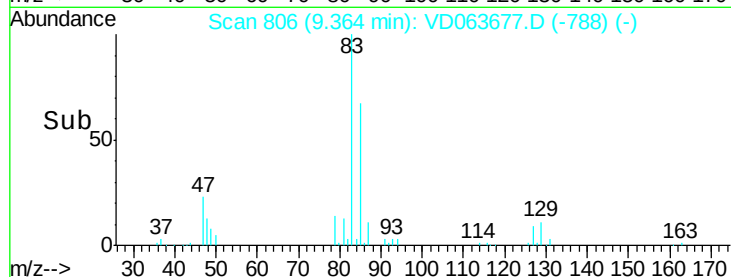
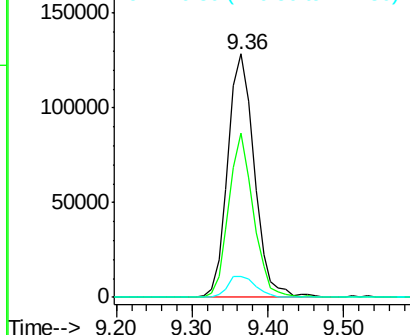
83 100

85 67.5 50.1 75.1

127 8.6 7.6 11.4



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



#48

Methyl methacrylate

Concen: 20.939 ug/l

RT: 9.11 min Scan# 780

Delta R.T. -0.02 min

Lab File: VD063677.D

Acq: 20 Aug 2019 11:49

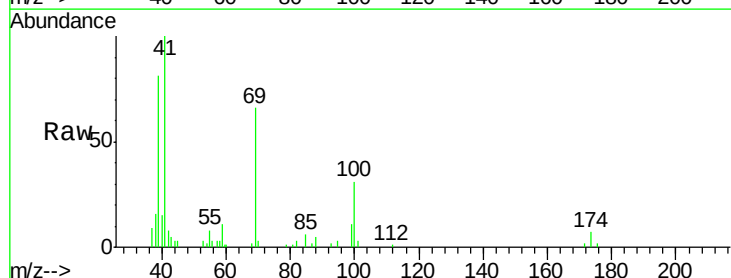
Tgt Ion: 41 Resp: 97390

Ion Ratio Lower Upper

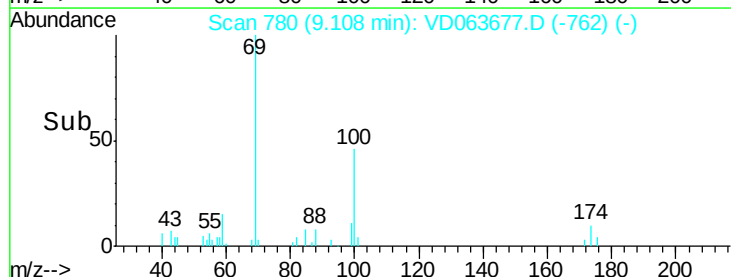
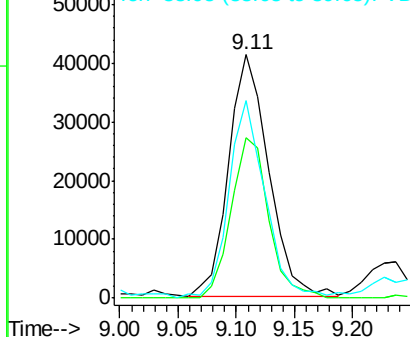
41 100

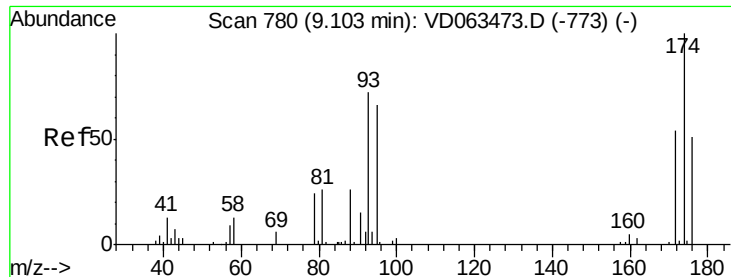
69 65.9 47.6 71.4

39 81.4 55.7 83.5



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

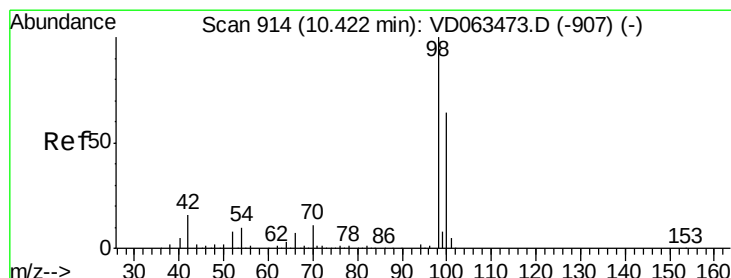
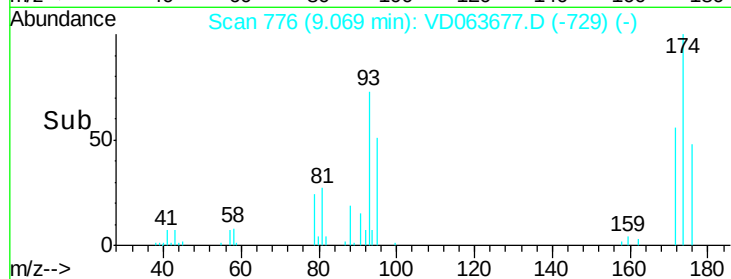
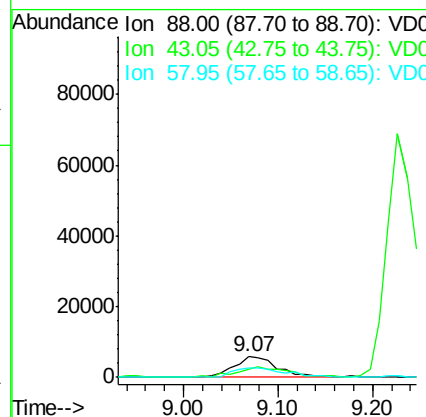
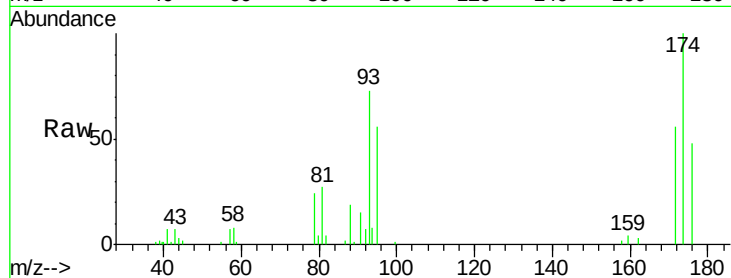




#49
 1,4-Dioxane
 Concen: 455.749 ug/l
 RT: 9.07 min Scan# 776
 Delta R.T. -0.03 min
 Lab File: VD063677.D
 Acq: 20 Aug 2019 11:49

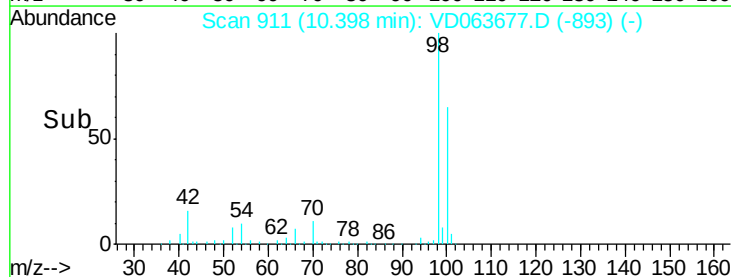
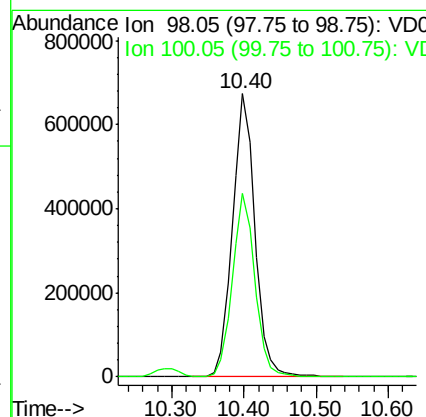
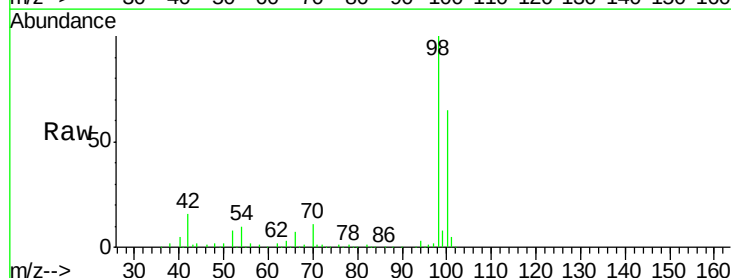
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0820SBSD01

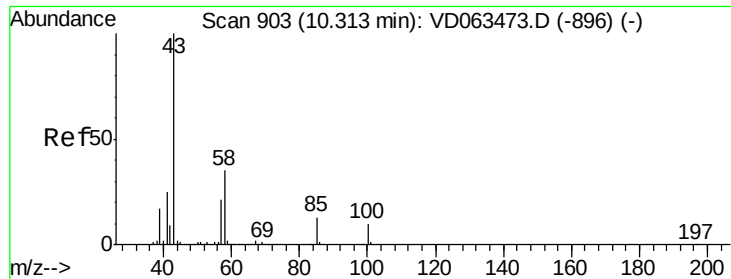
Tot Ion: 88 Resp: 18356
 Ion Ratio Lower Upper
 88 100
 43 37.7 22.9 34.3#
 58 42.6 40.1 60.1



#50
 Toluene-d8
 Concen: 57.039 ug/l
 RT: 10.40 min Scan# 911
 Delta R.T. -0.02 min
 Lab File: VD063677.D
 Acq: 20 Aug 2019 11:49

Tgt Ion: 98 Resp: 1460013
 Ion Ratio Lower Upper
 98 100
 100 65.1 51.7 77.5

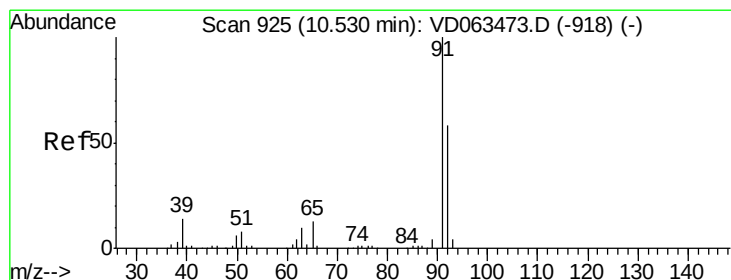
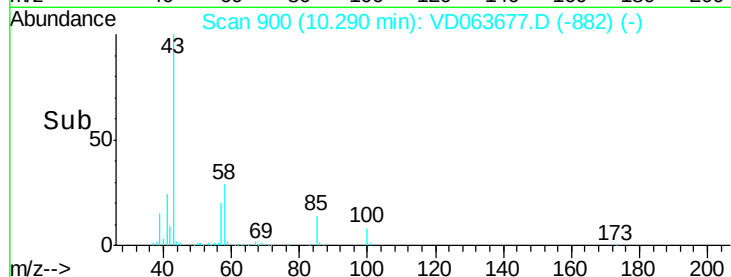
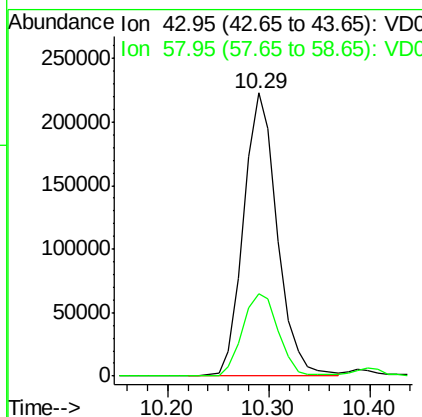
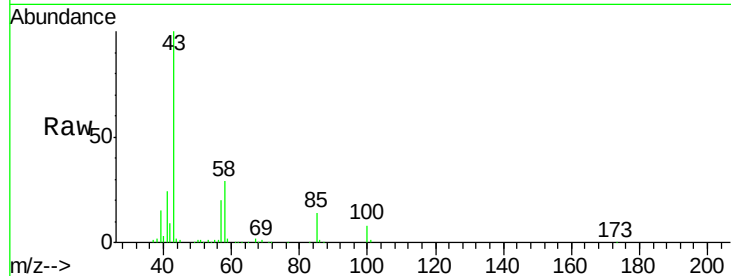




#51
 4-Methyl-2-Pentanone
 Concen: 110.471 ug/l
 RT: 10.29 min Scan# 900
 Delta R.T. -0.02 min
 Lab File: VD063677.D
 Acq: 20 Aug 2019 11:49

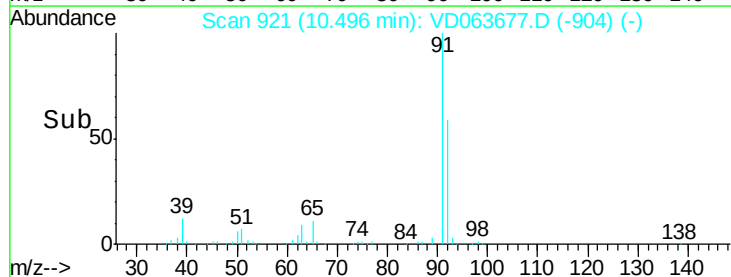
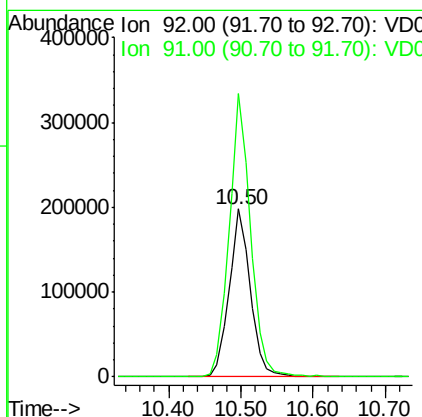
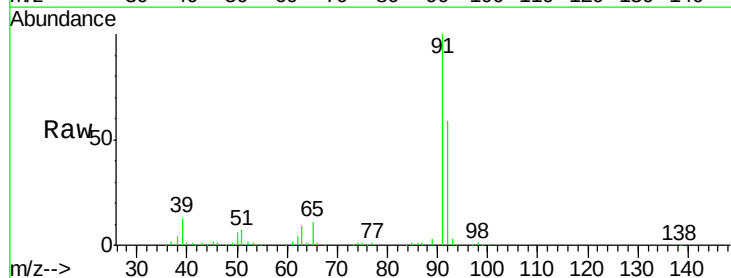
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0820SBSD01

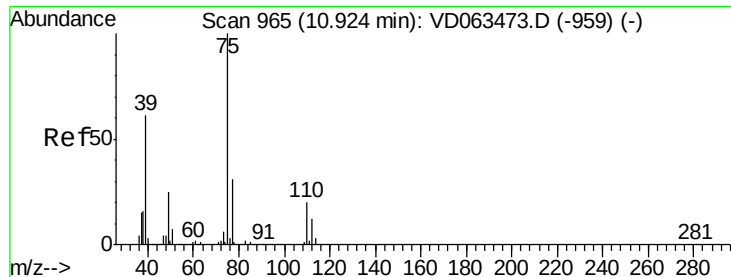
Tot Ion: 43 Resp: 518442
 Ion Ratio Lower Upper
 43 100
 58 29.3 28.0 42.0



#52
 Toluene
 Concen: 23.314 ug/l
 RT: 10.50 min Scan# 921
 Delta R.T. -0.03 min
 Lab File: VD063677.D
 Acq: 20 Aug 2019 11:49

Tgt Ion: 92 Resp: 403843
 Ion Ratio Lower Upper
 92 100
 91 168.3 137.9 206.9





#53

t-1,3-Dichloropropene

Concen: 23.190 ug/l

RT: 10.90 min Scan# 962

Delta R.T. -0.02 min

Lab File: VD063677.D

Acq: 20 Aug 2019 11:49

Instrument :

MSVOA_D

ClientSampleId :

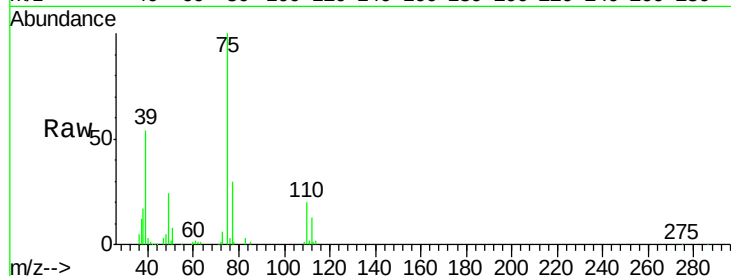
VD0820SBSD01

Tot Ion: 75 Resp: 259636

Ion Ratio Lower Upper

75 100

77 29.5 24.5 36.7



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

10.90

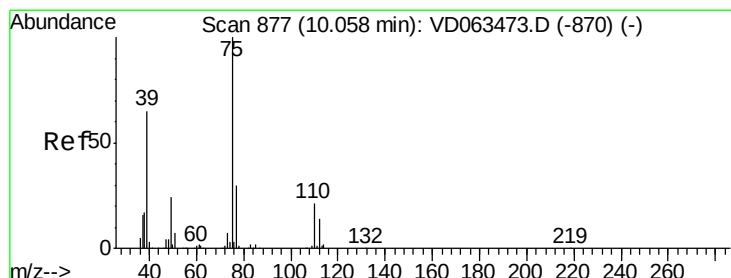
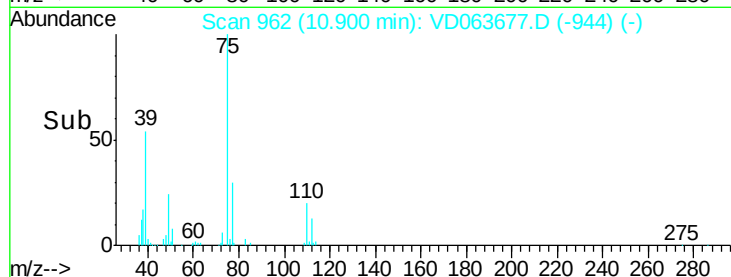
150000

100000

50000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 21.532 ug/l

RT: 10.02 min Scan# 873

Delta R.T. -0.03 min

Lab File: VD063677.D

Acq: 20 Aug 2019 11:49

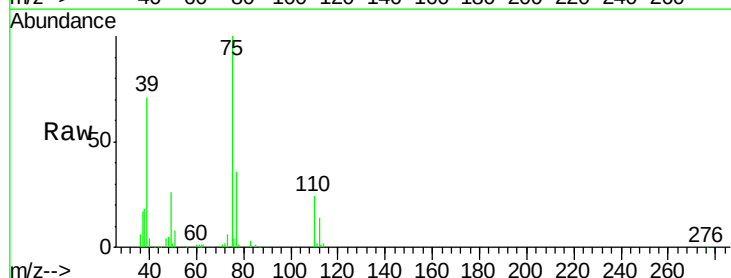
Tgt Ion: 75 Resp: 271827

Ion Ratio Lower Upper

75 100

77 35.7 23.7 35.5#

39 70.8 52.2 78.4



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

10.02

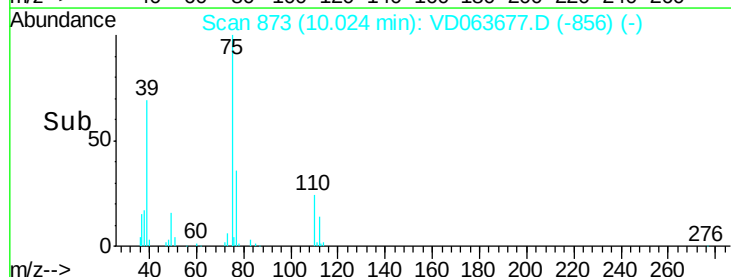
150000

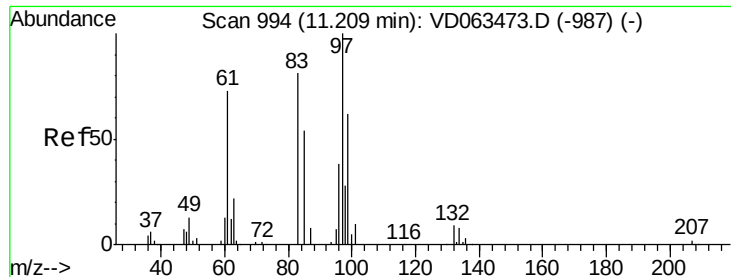
100000

50000

0

Time-->

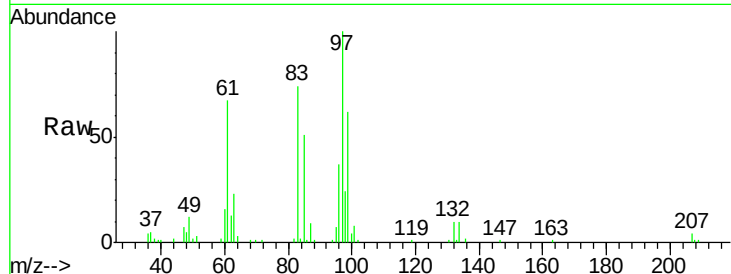




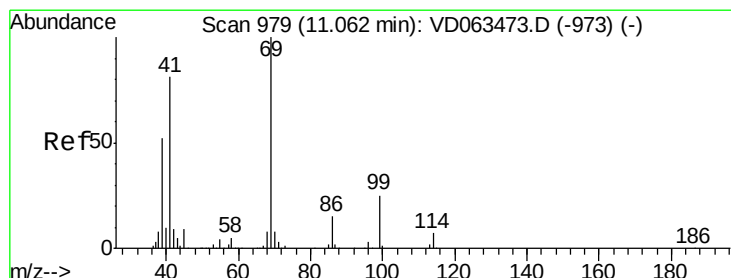
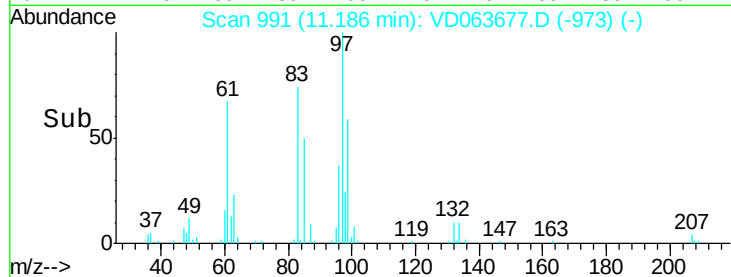
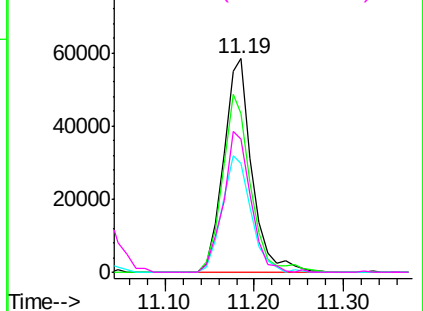
#55
 1,1,2-Trichloroethane
 Concen: 22.251 ug/l
 RT: 11.19 min Scan# 991
 Delta R.T. -0.02 min
 Lab File: VD063677.D
 Acq: 20 Aug 2019 11:49

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0820SBSD01

Tot Ion:	97	Resp:	130195
Ion	Ratio	Lower	Upper
97	100		
83	74.0	64.7	97.1
85	50.9	42.9	64.3
99	62.5	49.7	74.5

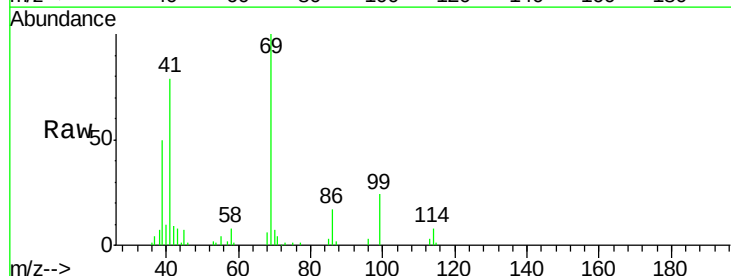


Abundance Ion 96.85 (96.55 to 97.55): VDC
 Ion 82.95 (82.65 to 83.65): VDC
 Ion 84.95 (84.65 to 85.65): VDC
 Ion 98.85 (98.55 to 99.55): VDC

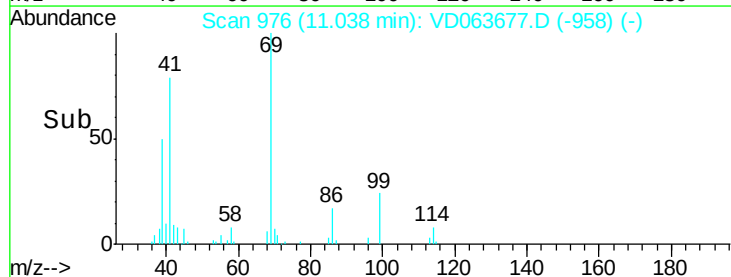
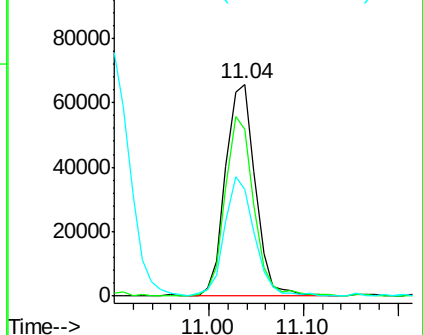


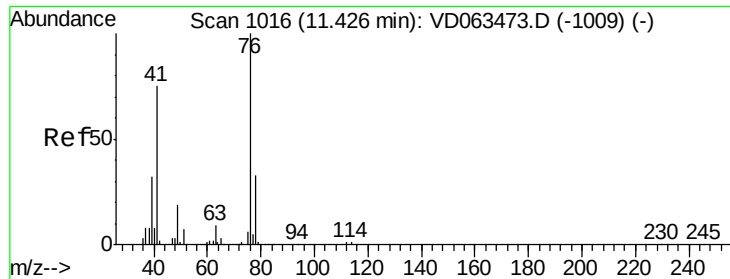
#56
 Ethyl methacrylate
 Concen: 22.544 ug/l
 RT: 11.04 min Scan# 976
 Delta R.T. -0.02 min
 Lab File: VD063677.D
 Acq: 20 Aug 2019 11:49

Tgt Ion:	69	Resp:	143173
Ion	Ratio	Lower	Upper
69	100		
41	78.7	64.8	97.2
39	50.4	42.4	63.6



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: 22.462 ug/l

RT: 11.40 min Scan# 1013

Delta R.T. -0.02 min

Lab File: VD063677.D

Acq: 20 Aug 2019 11:49

Instrument :

MSVOA_D

ClientSampleId :

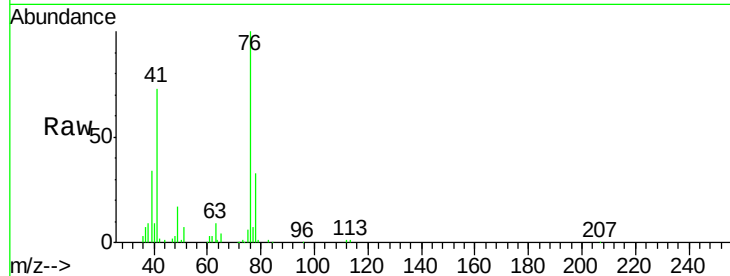
VD0820SBSD01

Tot Ion: 76 Resp: 198668

Ion Ratio Lower Upper

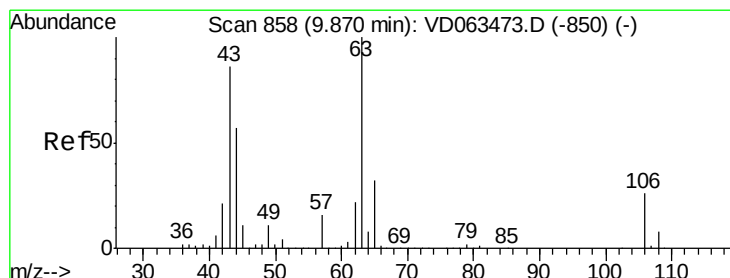
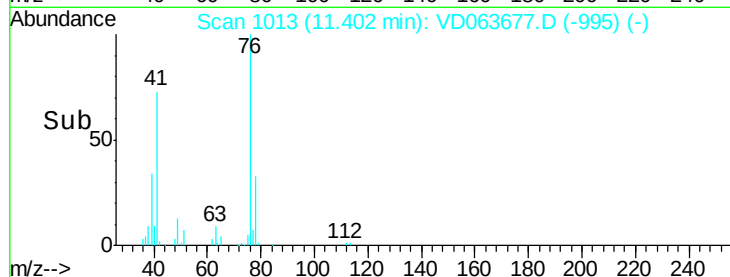
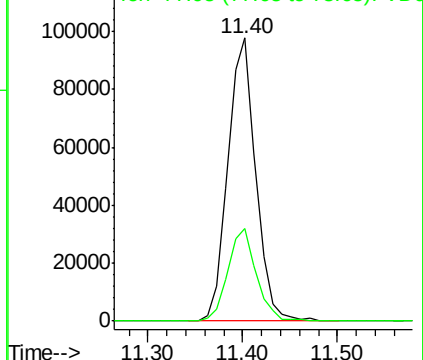
76 100

78 32.7 26.3 39.5



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: 104.670 ug/l

RT: 9.85 min Scan# 855

Delta R.T. -0.02 min

Lab File: VD063677.D

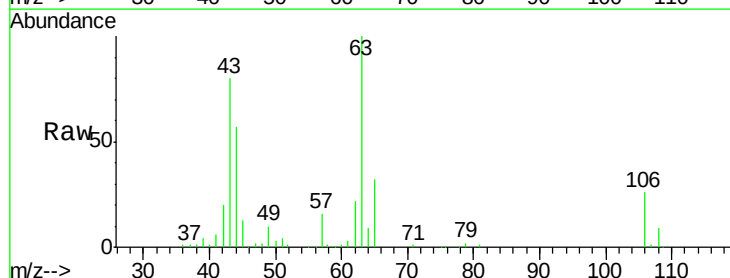
Acq: 20 Aug 2019 11:49

Tgt Ion: 63 Resp: 350943

Ion Ratio Lower Upper

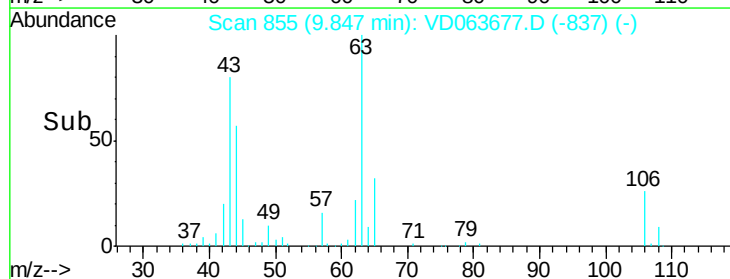
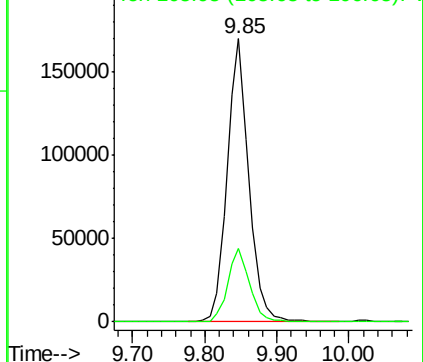
63 100

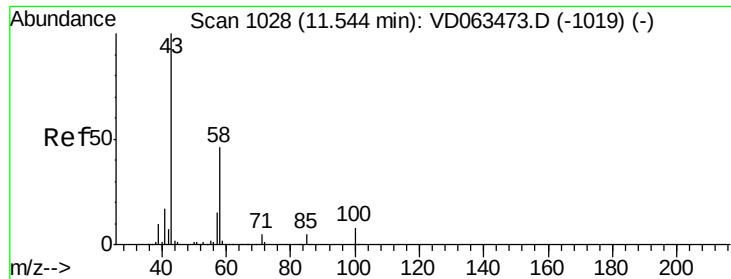
106 25.9 20.8 31.2



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

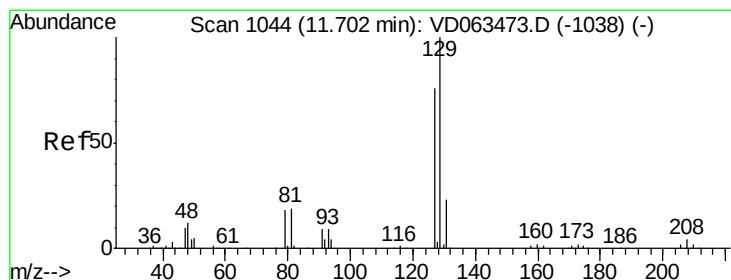
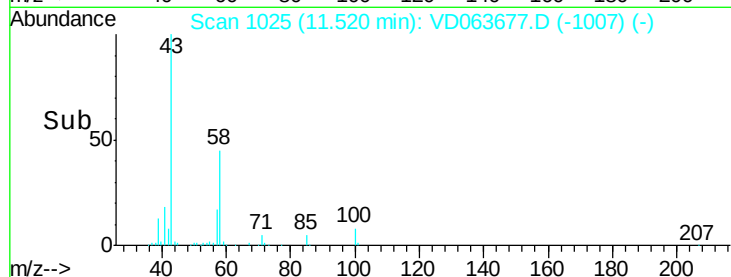
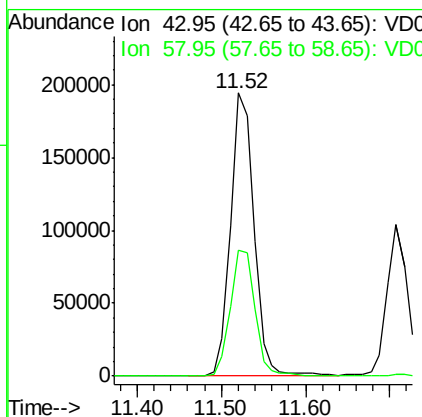
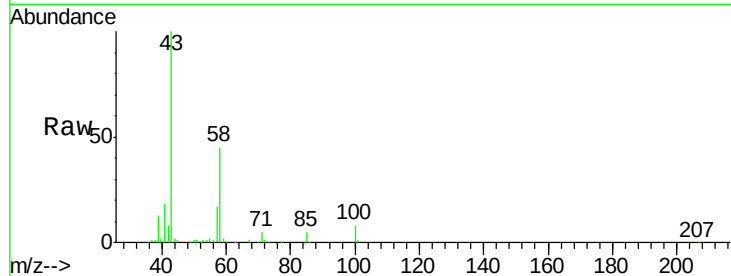




#59
2-Hexanone
Concen: 110.888 ug/l
RT: 11.52 min Scan# 1025
Delta R.T. -0.02 min
Lab File: VD063677.D
Acq: 20 Aug 2019 11:49

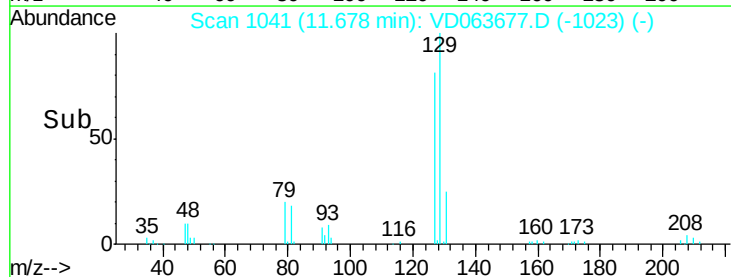
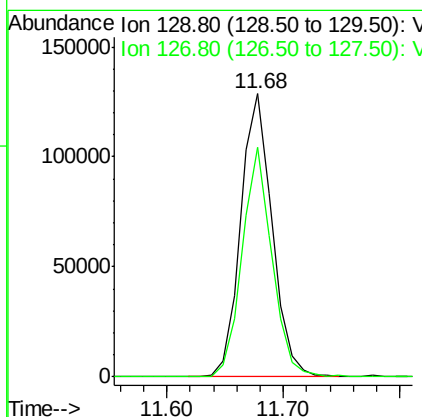
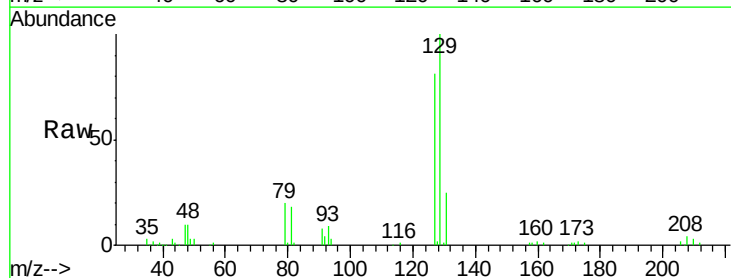
Instrument :
MSVOA_D
ClientSampleId :
VD0820SBSD01

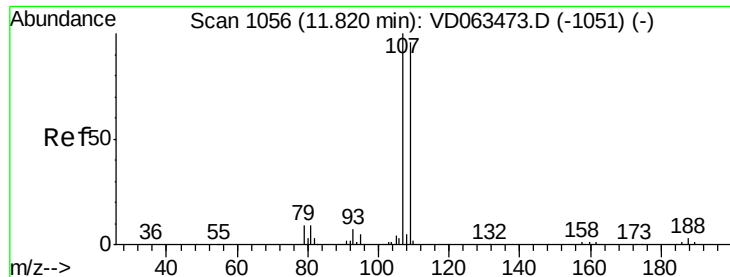
Tot Ion: 43 Resp: 378659
Ion Ratio Lower Upper
43 100
58 44.6 23.1 69.2



#60
Dibromochloromethane
Concen: 22.617 ug/l
RT: 11.68 min Scan# 1041
Delta R.T. -0.02 min
Lab File: VD063677.D
Acq: 20 Aug 2019 11:49

Tgt Ion: 129 Resp: 240804
Ion Ratio Lower Upper
129 100
127 81.2 37.8 113.4





#61

1,2-Dibromoethane

Concen: 22.806 ug/l

RT: 11.80 min Scan# 1053

Delta R.T. -0.02 min

Lab File: VD063677.D

Acq: 20 Aug 2019 11:49

Instrument :

MSVOA_D

ClientSampleId :

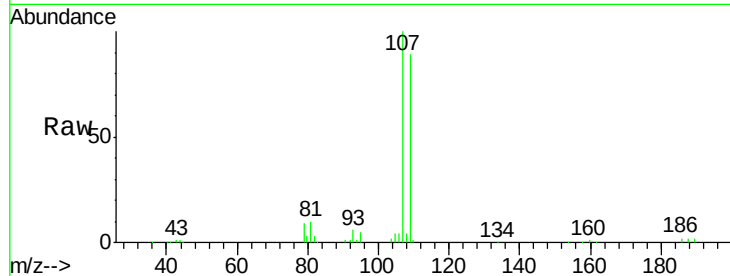
VD0820SBSD01

Tot Ion:107 Resp: 161541

Ion Ratio Lower Upper

107 100

109 88.5 76.8 115.2



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V

11.80

80000

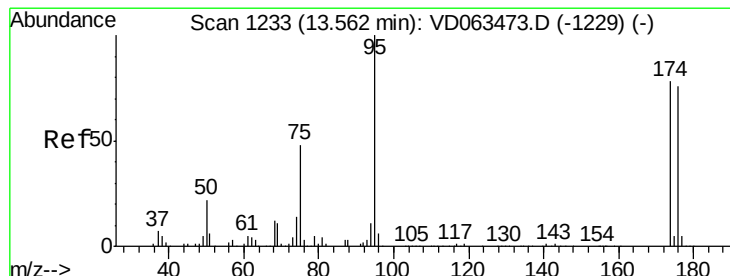
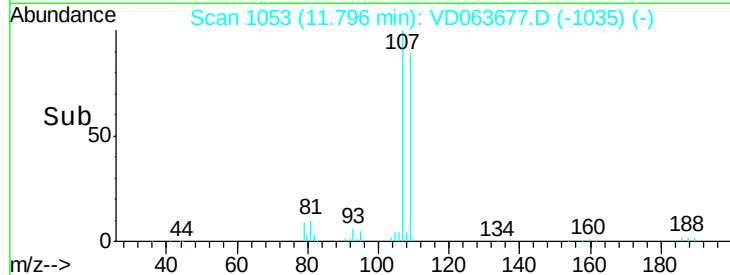
60000

40000

20000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 50.158 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. -0.01 min

Lab File: VD063677.D

Acq: 20 Aug 2019 11:49

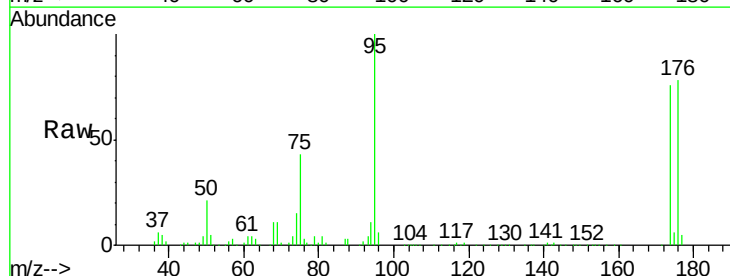
Tgt Ion: 95 Resp: 581905

Ion Ratio Lower Upper

95 100

174 76.4 0.0 155.4

176 78.0 0.0 152.4



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

600000

500000

400000

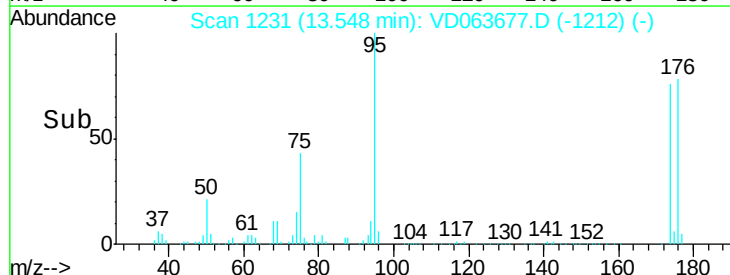
300000

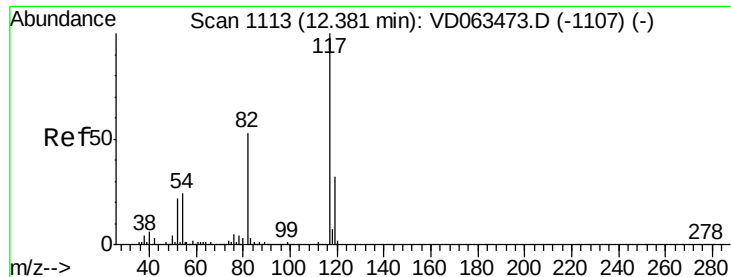
200000

100000

0

Time-->

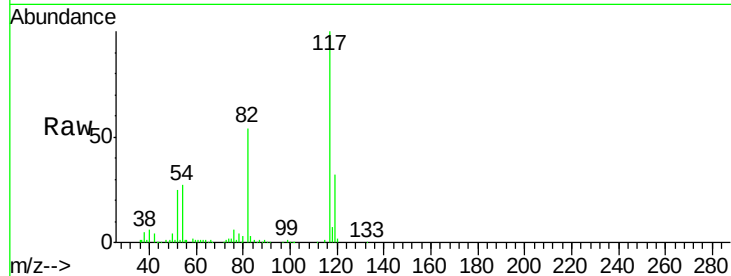




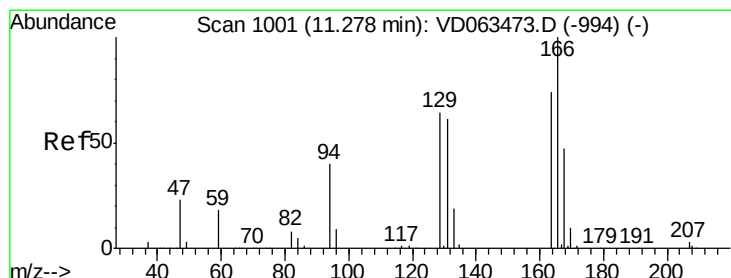
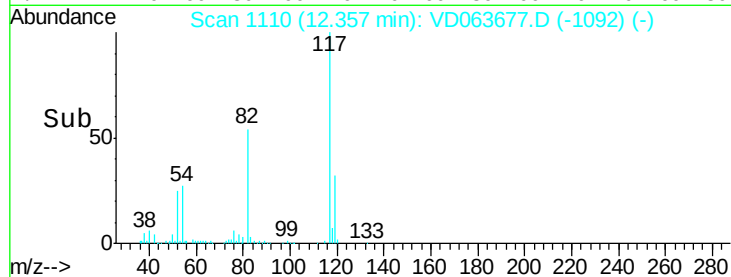
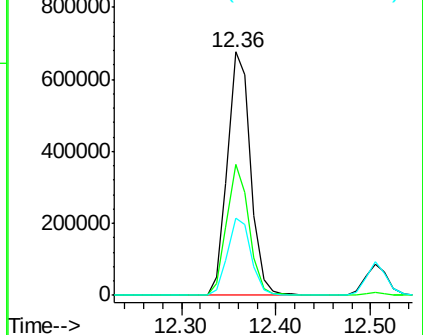
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1110
Delta R.T. -0.02 min
Lab File: VD063677.D
Acq: 20 Aug 2019 11:49

Instrument :
MSVOA_D
ClientSampleId :
VD0820SBSD01

Tot Ion:117 Resp: 1150561
Ion Ratio Lower Upper
117 100
82 53.6 42.0 63.0
119 31.8 25.4 38.0

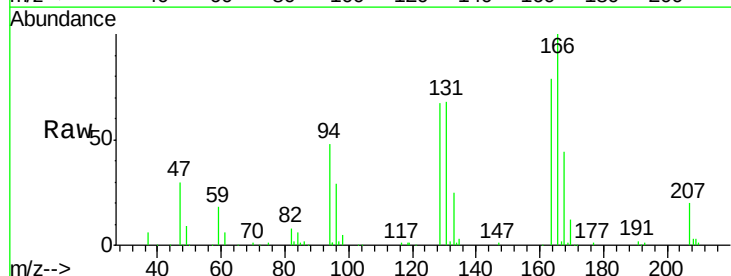


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

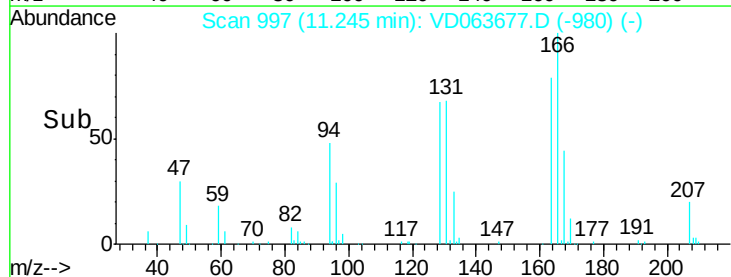
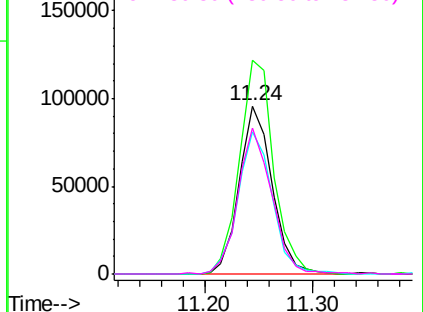


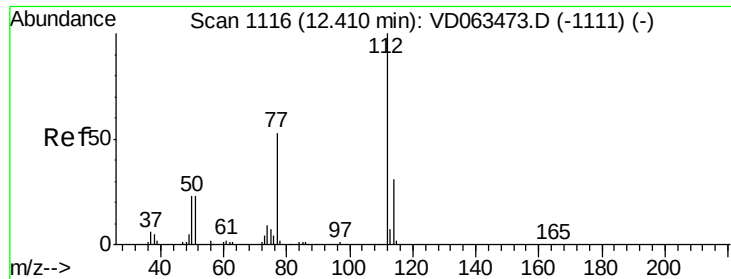
#64
Tetrachloroethene
Concen: 22.821 ug/l
RT: 11.24 min Scan# 997
Delta R.T. -0.03 min
Lab File: VD063677.D
Acq: 20 Aug 2019 11:49

Tgt Ion:164 Resp: 202693
Ion Ratio Lower Upper
164 100
166 127.3 108.6 163.0
129 84.7 69.0 103.6
131 87.0 66.6 99.8



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

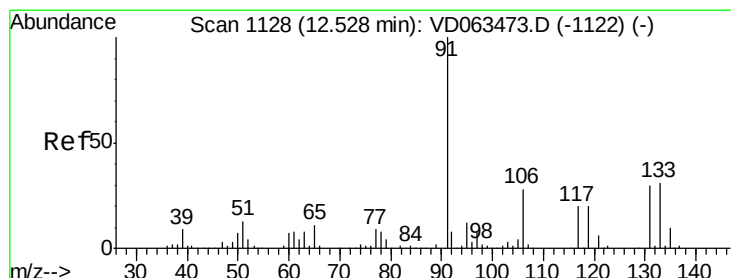
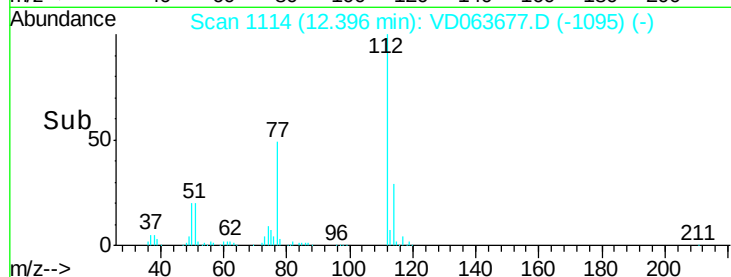
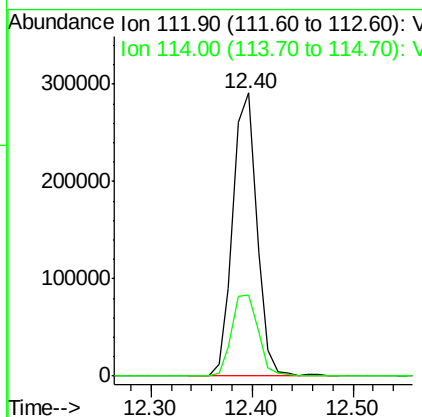
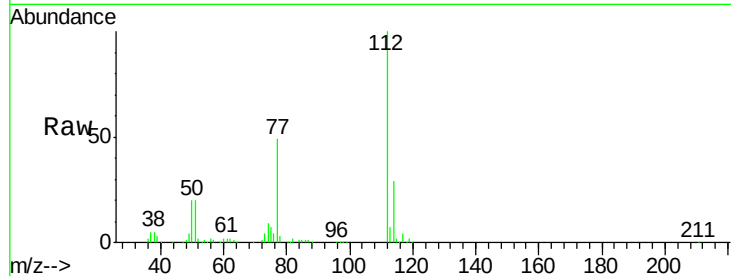




#65
Chlorobenzene
Concen: 22.501 ug/l
RT: 12.40 min Scan# 1114
Delta R.T. -0.01 min
Lab File: VD063677.D
Acq: 20 Aug 2019 11:49

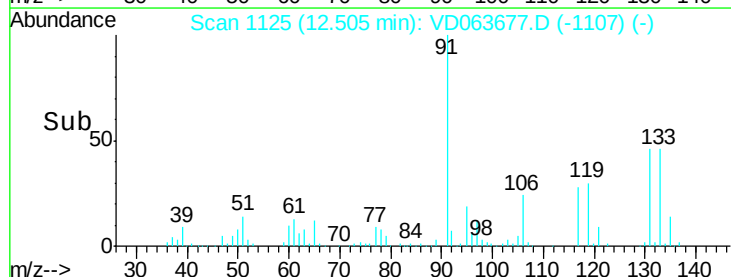
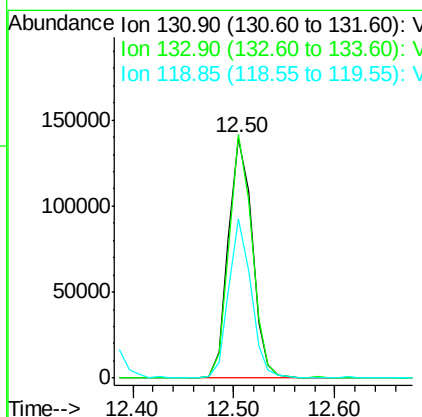
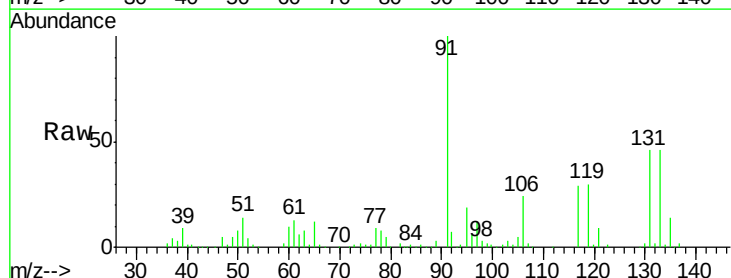
Instrument :
MSVOA_D
ClientSampleId :
VD0820SBSD01

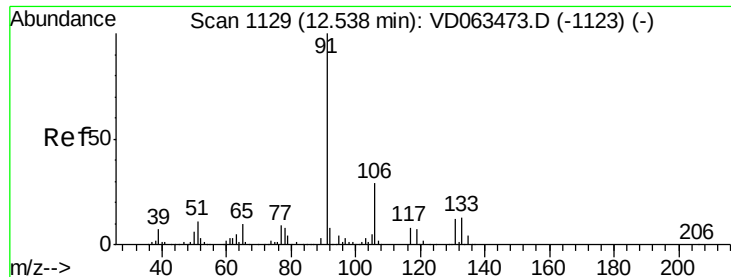
Tot Ion:112 Resp: 485215
Ion Ratio Lower Upper
112 100
114 28.7 25.1 37.7



#66
1,1,1,2-Tetrachloroethane
Concen: 24.273 ug/l
RT: 12.50 min Scan# 1125
Delta R.T. -0.02 min
Lab File: VD063677.D
Acq: 20 Aug 2019 11:49

Tgt Ion:131 Resp: 230358
Ion Ratio Lower Upper
131 100
133 101.3 51.1 153.3
119 66.4 33.1 99.3

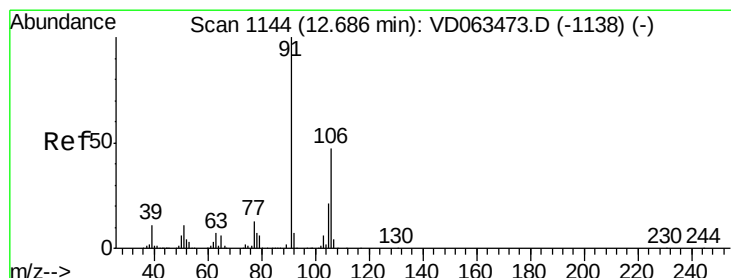
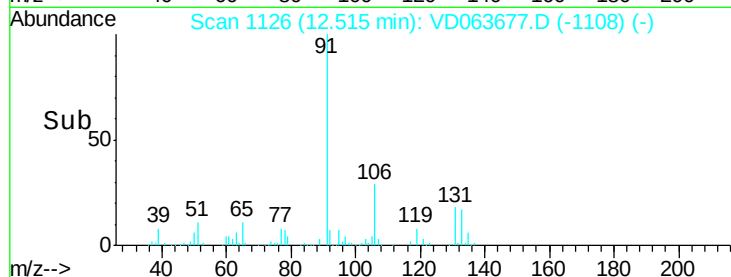
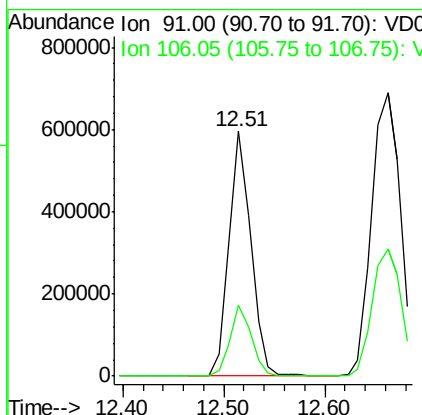
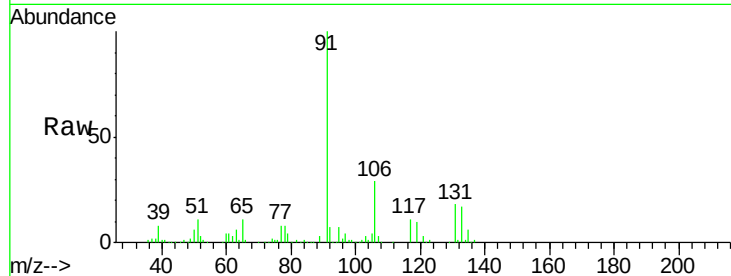




#67
Ethyl Benzene
Concen: 23.902 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. -0.02 min
Lab File: VD063677.D
Acq: 20 Aug 2019 11:49

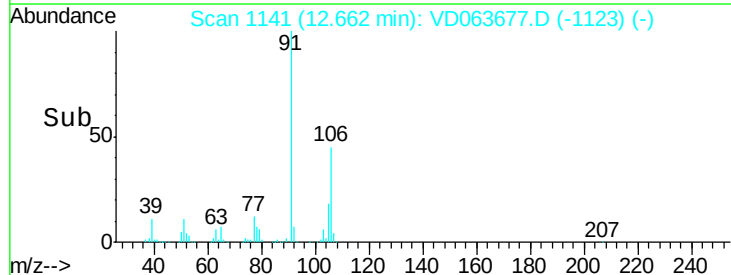
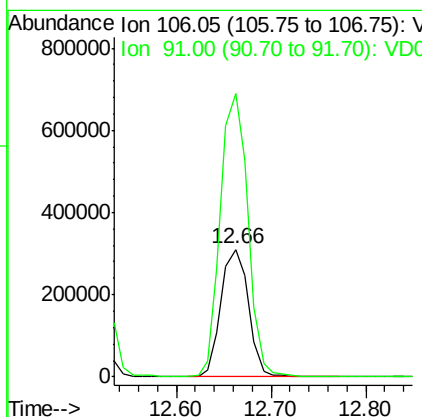
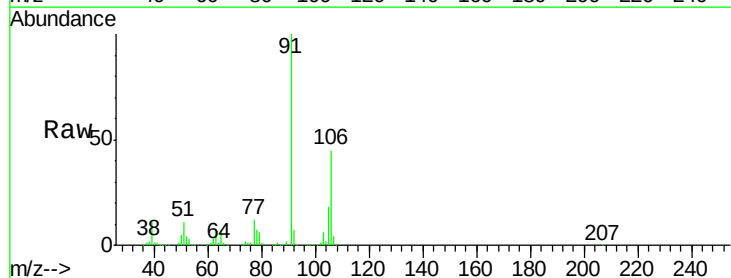
Instrument :
MSVOA_D
ClientSampleId :
VD0820SBSD01

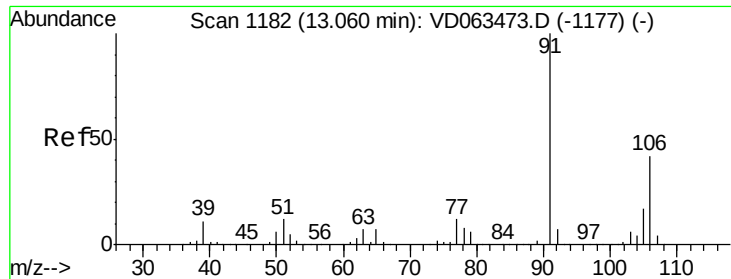
Tot Ion: 91 Resp: 896195
Ion Ratio Lower Upper
91 100
106 29.2 23.1 34.7



#68
m/p-Xylenes
Concen: 47.637 ug/l
RT: 12.66 min Scan# 1141
Delta R.T. -0.02 min
Lab File: VD063677.D
Acq: 20 Aug 2019 11:49

Tgt Ion: 106 Resp: 627530
Ion Ratio Lower Upper
106 100
91 222.1 171.8 257.8

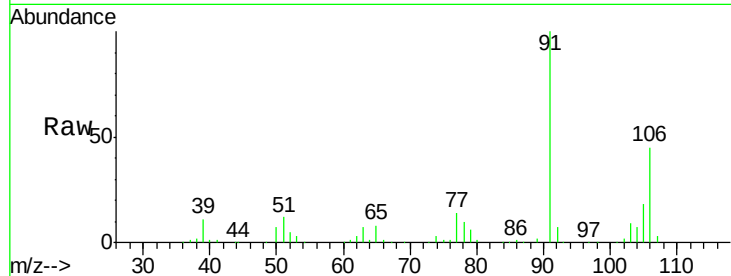




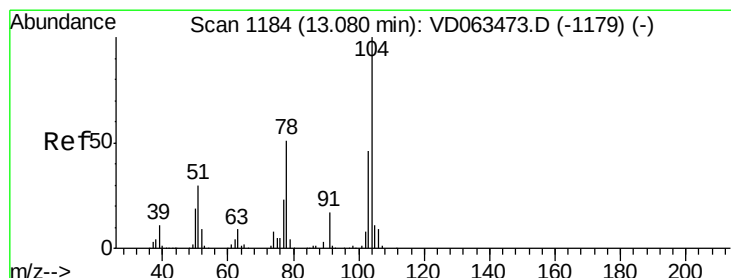
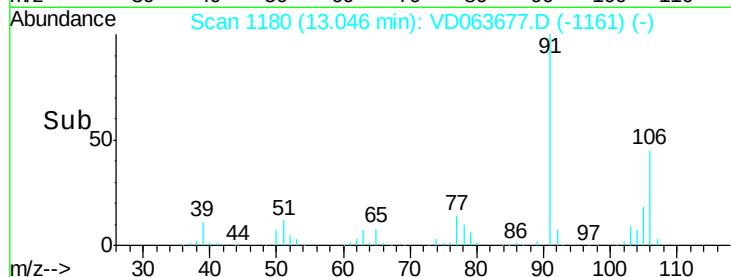
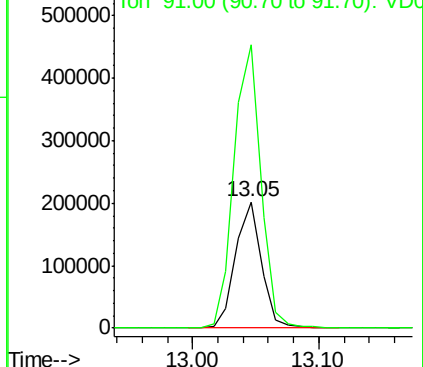
#69
o-Xylene
Concen: 22.507 ug/l
RT: 13.05 min Scan# 1180
Delta R.T. -0.01 min
Lab File: VD063677.D
Acq: 20 Aug 2019 11:49

Instrument :
MSVOA_D
ClientSampleId :
VD0820SBSD01

Tot Ion:106 Resp: 285365
Ion Ratio Lower Upper
106 100
91 224.2 118.1 354.2

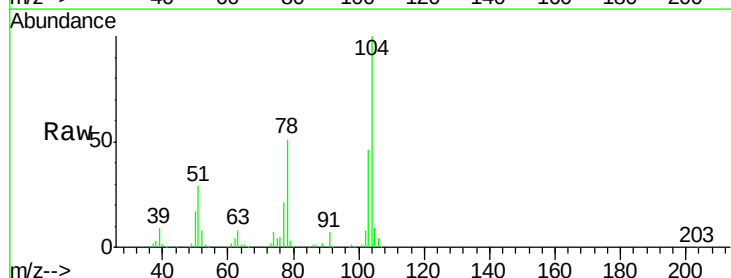


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

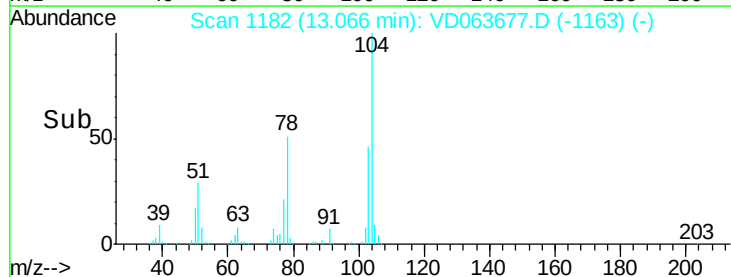
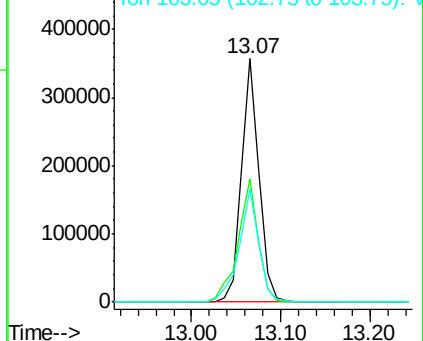


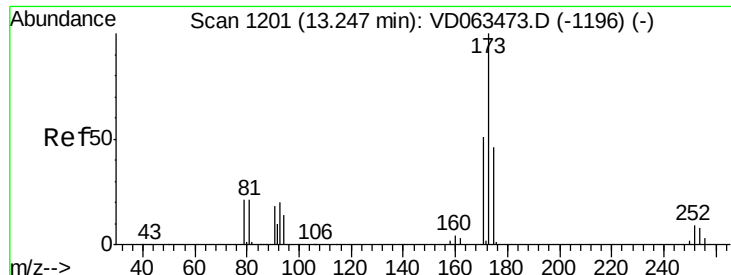
#70
Styrene
Concen: 21.620 ug/l
RT: 13.07 min Scan# 1182
Delta R.T. -0.01 min
Lab File: VD063677.D
Acq: 20 Aug 2019 11:49

Tgt Ion:104 Resp: 487586
Ion Ratio Lower Upper
104 100
78 50.7 40.8 61.2
103 46.4 36.4 54.6



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





#71

Bromoform

Concen: 22.584 ug/l

RT: 13.22 min Scan# 1198

Delta R.T. -0.02 min

Lab File: VD063677.D

Acq: 20 Aug 2019 11:49

Instrument :

MSVOA_D

ClientSampleId :

VD0820SBSD01

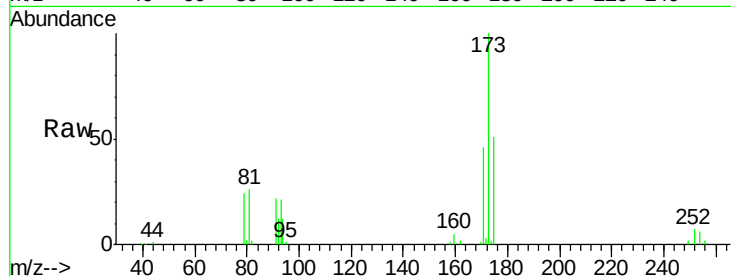
Tot Ion:173 Resp: 146962

Ion Ratio Lower Upper

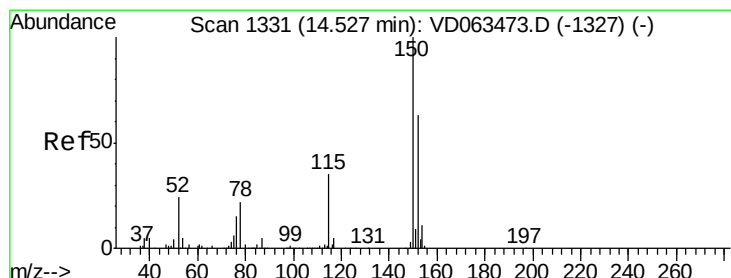
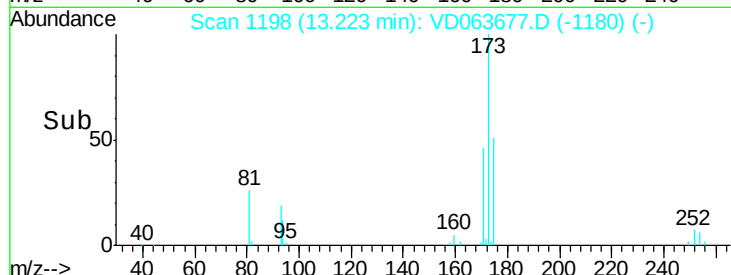
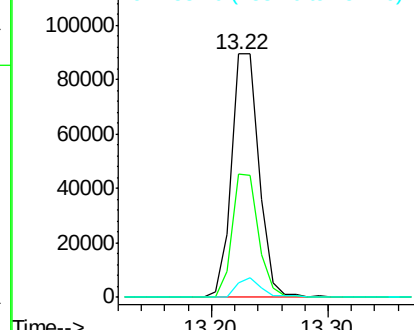
173 100

175 50.5 22.8 68.3

254 5.8 6.6 9.8#



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: VD063677.D

Acq: 20 Aug 2019 11:49

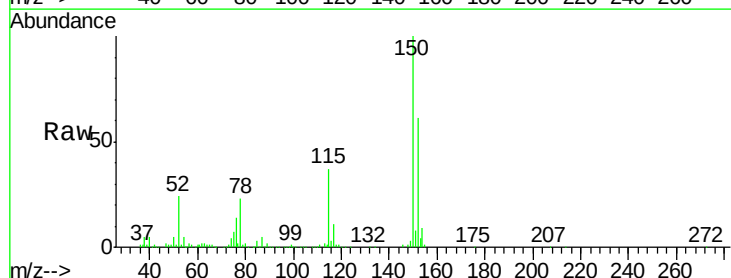
Tgt Ion:152 Resp: 641551

Ion Ratio Lower Upper

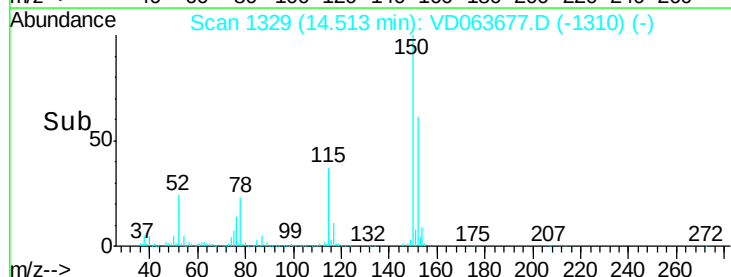
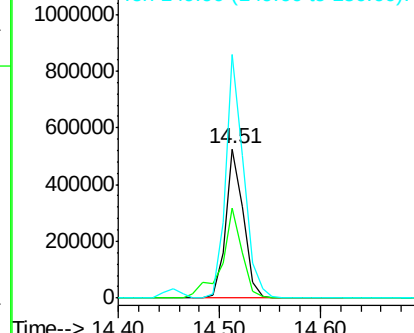
152 100

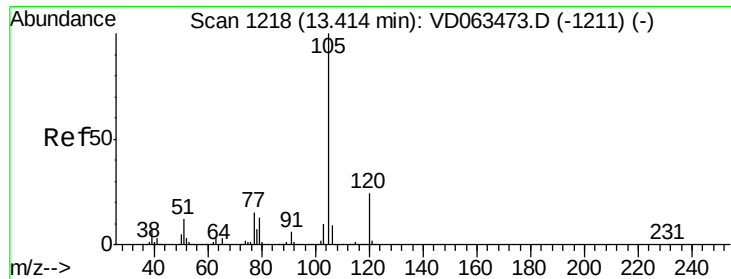
115 60.1 30.9 92.7

150 163.3 0.0 318.6



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





#73

Isopropylbenzene

Concen: 22.654 ug/l

RT: 13.40 min Scan# 1216

Delta R.T. -0.01 min

Lab File: VD063677.D

Acq: 20 Aug 2019 11:49

Instrument :

MSVOA_D

ClientSampleId :

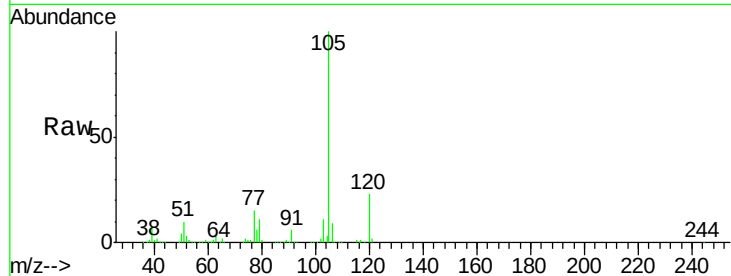
VD0820SBSD01

Tot Ion:105 Resp: 924428

Ion Ratio Lower Upper

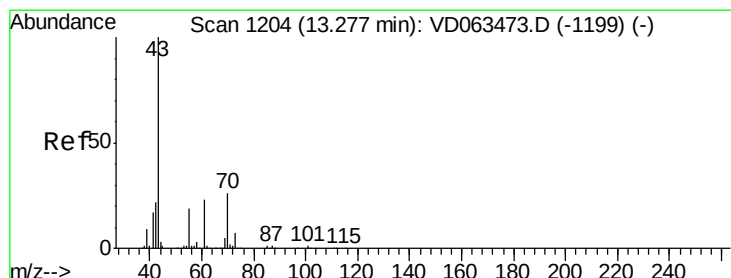
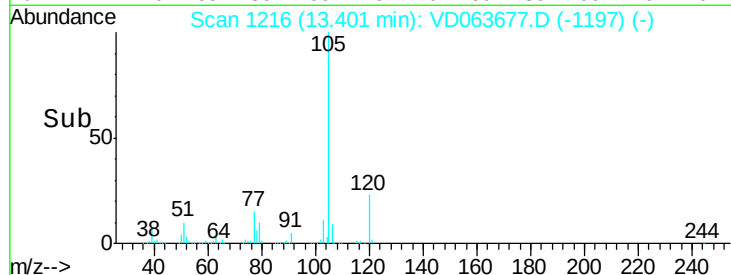
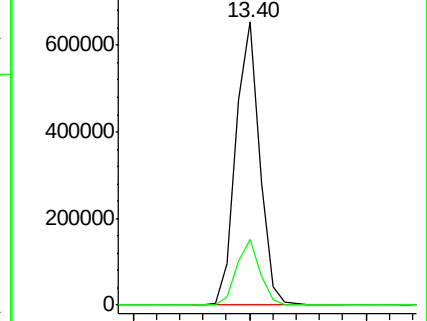
105 100

120 23.4 11.9 35.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 19.680 ug/l

RT: 13.26 min Scan# 1202

Delta R.T. -0.01 min

Lab File: VD063677.D

Acq: 20 Aug 2019 11:49

Tgt Ion: 43 Resp: 201595

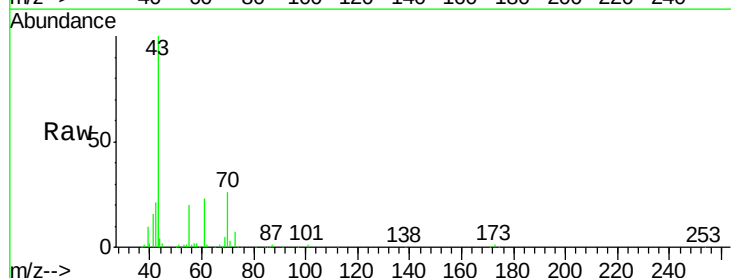
Ion Ratio Lower Upper

43 100

70 26.4 21.1 31.7

55 20.1 15.4 23.0

61 23.0 18.2 27.2

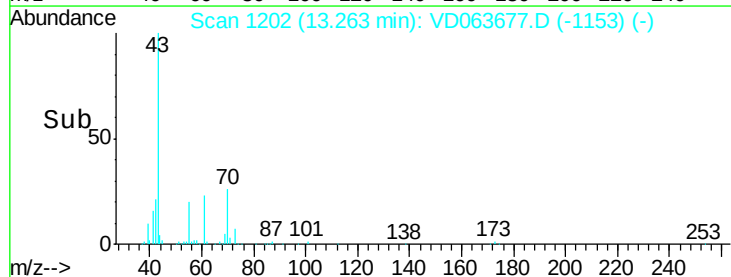
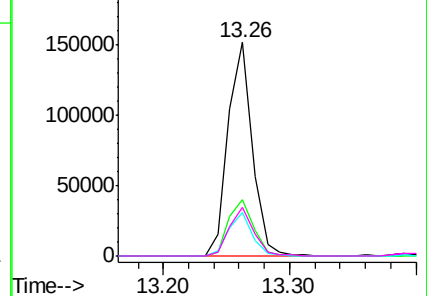


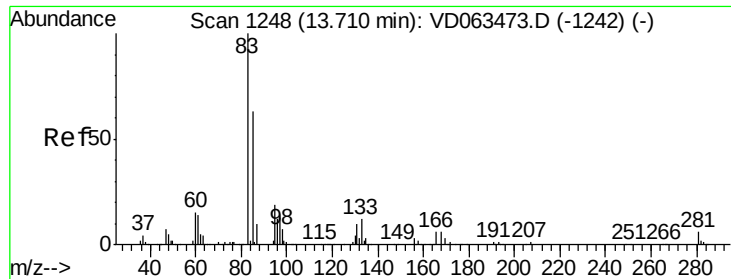
Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V





#75

1,1,2,2-Tetrachloroethane

Concen: 21.038 ug/l

RT: 13.70 min Scan# 1246

Delta R.T. -0.01 min

Lab File: VD063677.D

Acq: 20 Aug 2019 11:49

Instrument :

MSVOA_D

ClientSampleId :

VD0820SBSD01

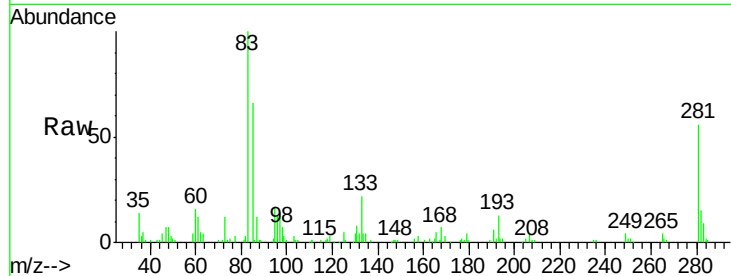
Tot Ion: 83 Resp: 142492

Ion Ratio Lower Upper

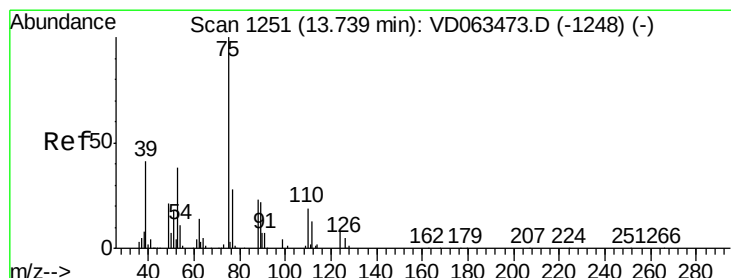
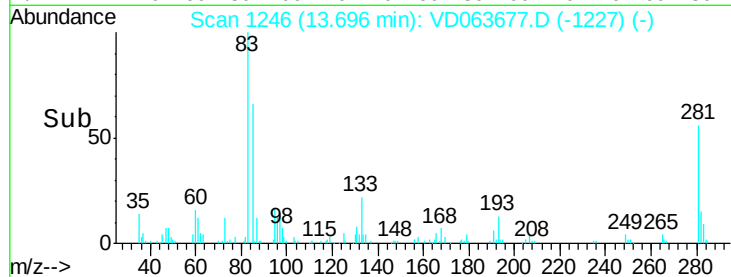
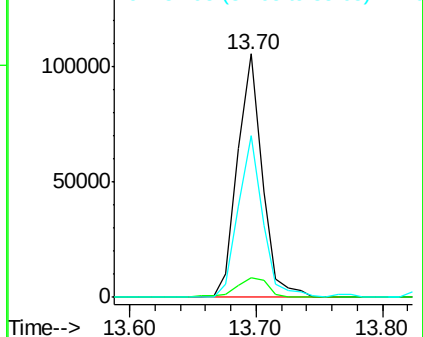
83 100

131 8.0 5.3 15.8

85 66.3 31.4 94.3



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: 20.694 ug/l

RT: 13.73 min Scan# 1249

Delta R.T. -0.01 min

Lab File: VD063677.D

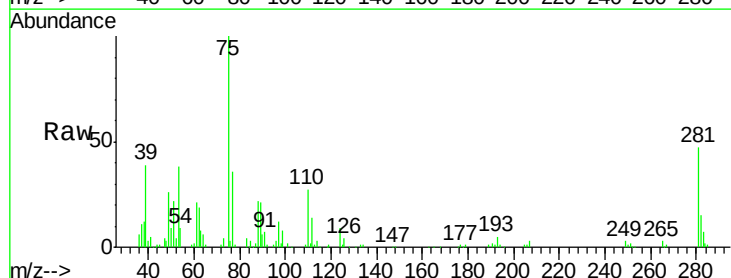
Acq: 20 Aug 2019 11:49

Tgt Ion: 75 Resp: 152366

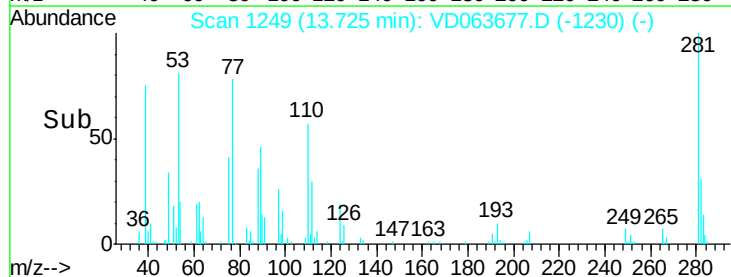
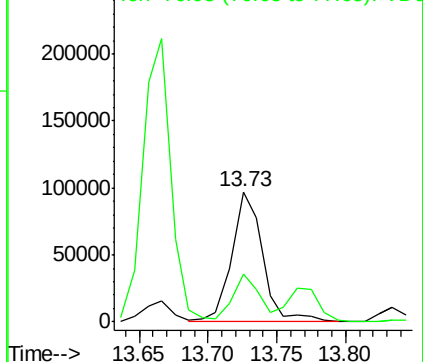
Ion Ratio Lower Upper

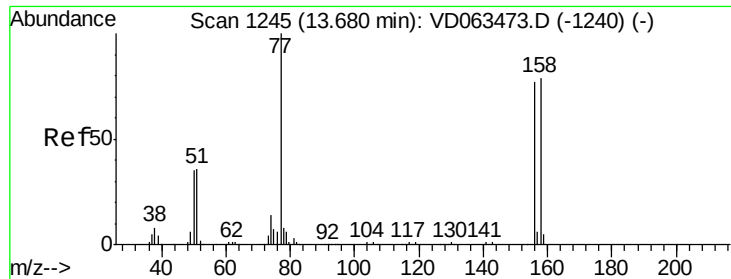
75 100

77 36.3 15.1 45.3



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





#77

Bromobenzene

Concen: 22.202 ug/l

RT: 13.67 min Scan# 1243

Delta R.T. -0.01 min

Lab File: VD063677.D

Acq: 20 Aug 2019 11:49

Instrument :

MSVOA_D

ClientSampleId :

VD0820SBSD01

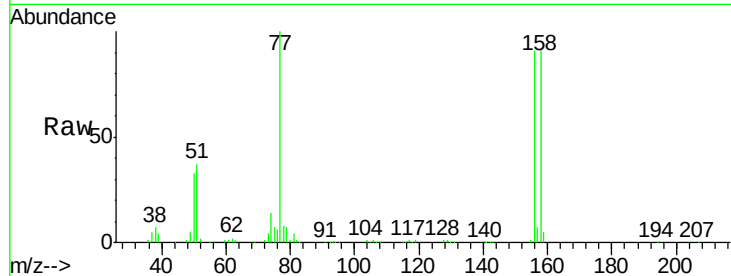
Tot Ion:156 Resp: 247602

Ion Ratio Lower Upper

156 100

77 109.8 64.6 193.8

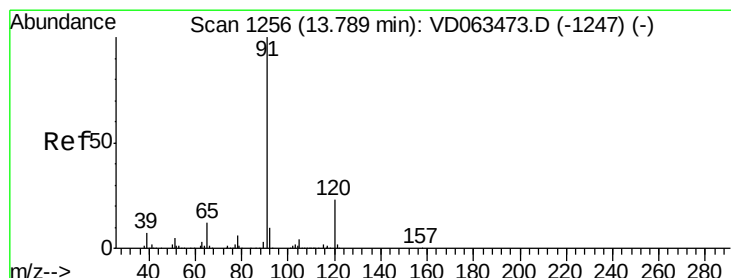
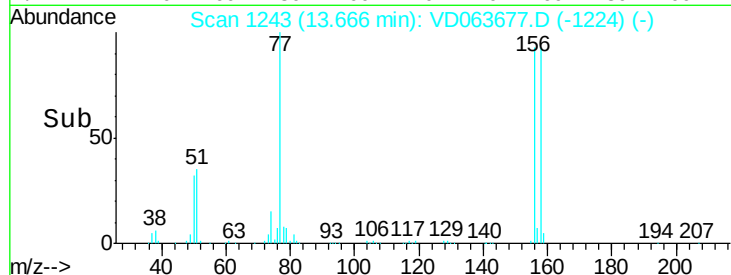
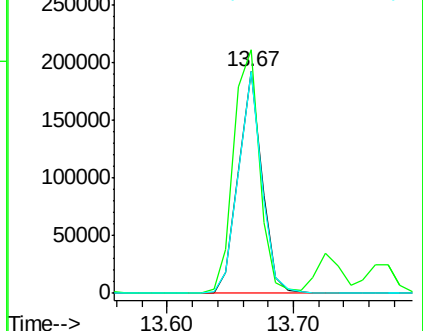
158 100.2 50.9 152.7



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: 20.674 ug/l

RT: 13.76 min Scan# 1253

Delta R.T. -0.02 min

Lab File: VD063677.D

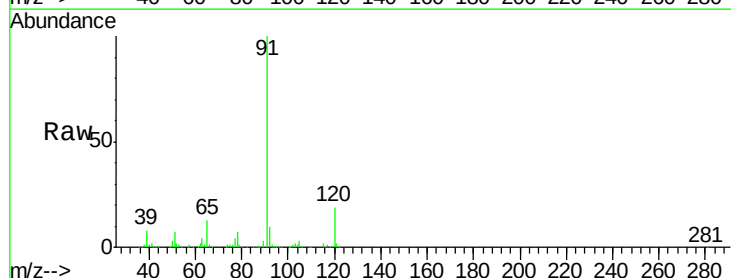
Acq: 20 Aug 2019 11:49

Tgt Ion: 91 Resp: 987078

Ion Ratio Lower Upper

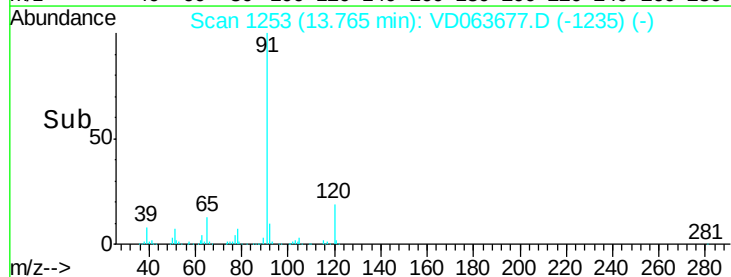
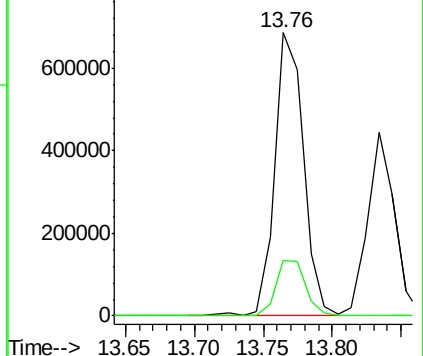
91 100

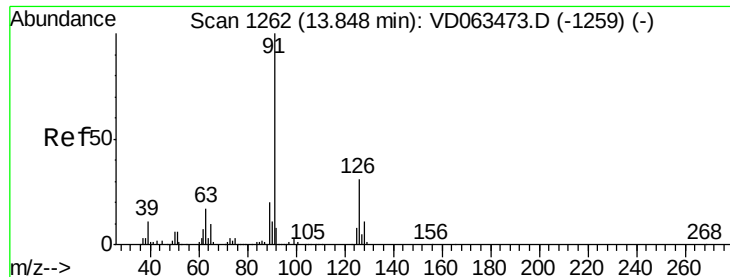
120 19.5 11.3 33.9



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 21.896 ug/l

RT: 13.83 min Scan# 1260

Delta R.T. -0.01 min

Lab File: VD063677.D

Acq: 20 Aug 2019 11:49

Instrument :

MSVOA_D

ClientSampleId :

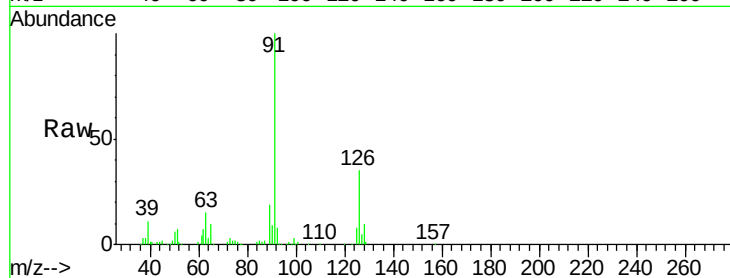
VD0820SBSD01

Tot Ion: 91 Resp: 602761

Ion Ratio Lower Upper

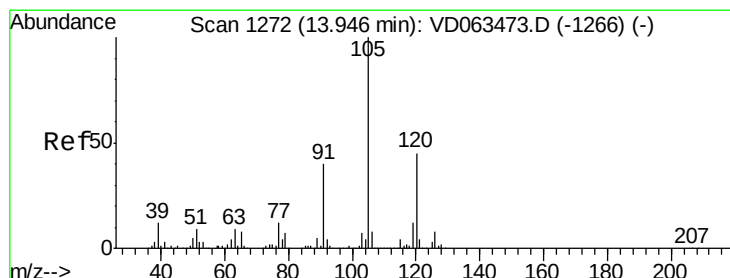
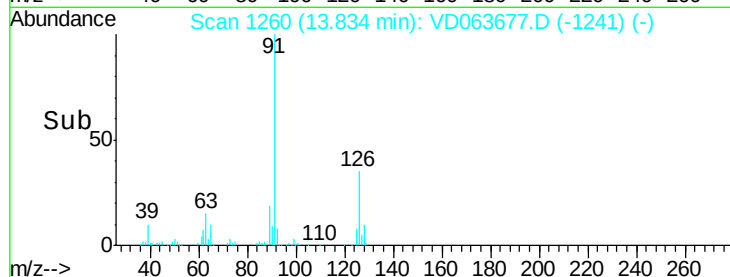
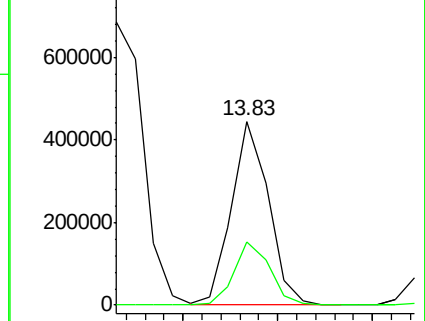
91 100

126 34.7 15.6 46.7



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#80

1,3,5-Trimethylbenzene

Concen: 20.783 ug/l

RT: 13.93 min Scan# 1270

Delta R.T. -0.01 min

Lab File: VD063677.D

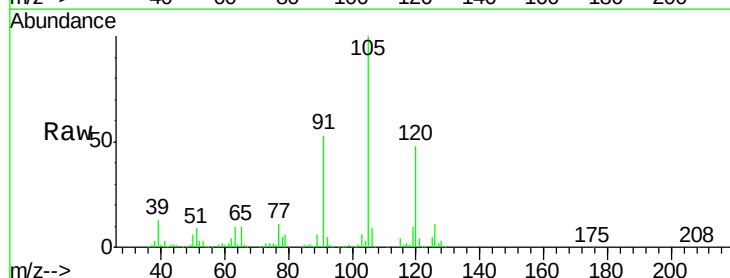
Acq: 20 Aug 2019 11:49

Tgt Ion: 105 Resp: 740980

Ion Ratio Lower Upper

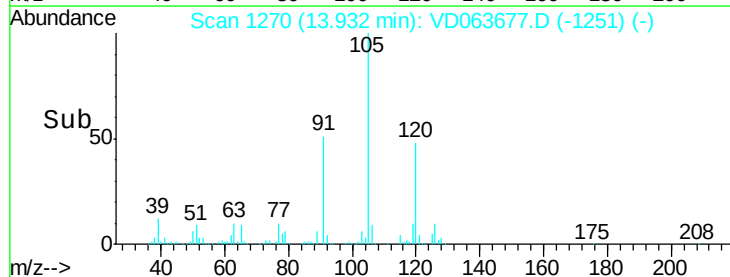
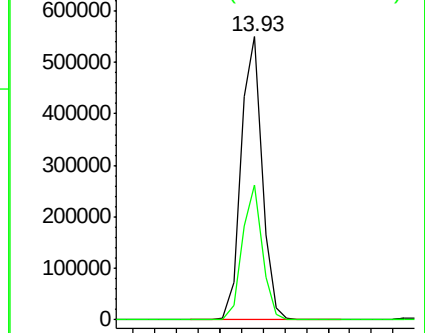
105 100

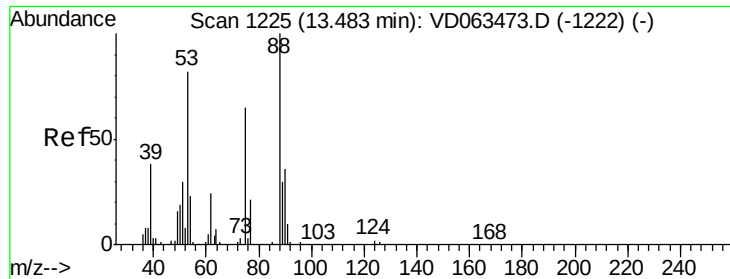
120 47.9 22.8 68.3



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

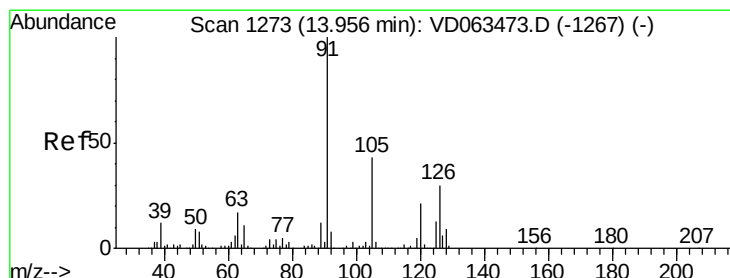
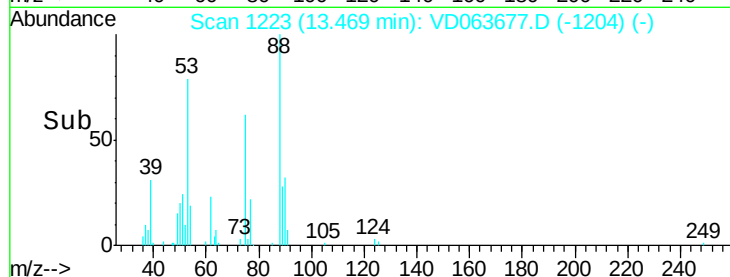
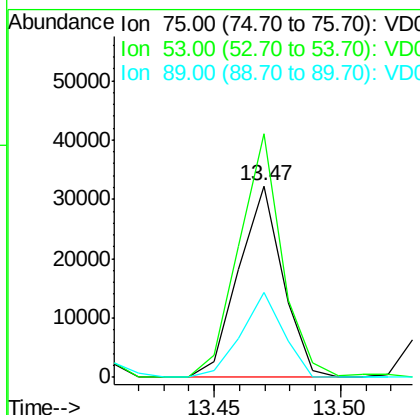
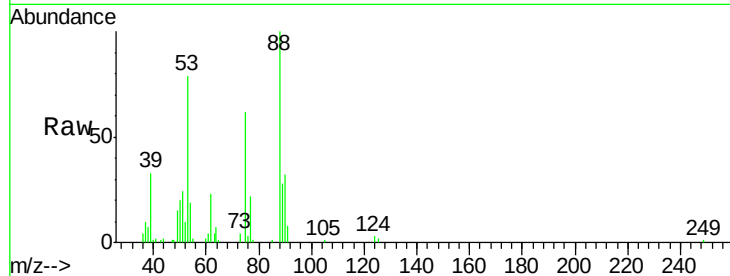




#81
trans-1,4-Dichloro-2-butene
Concen: 20.003 ug/l
RT: 13.47 min Scan# 1223
Delta R.T. -0.01 min
Lab File: VD063677.D
Acq: 20 Aug 2019 11:49

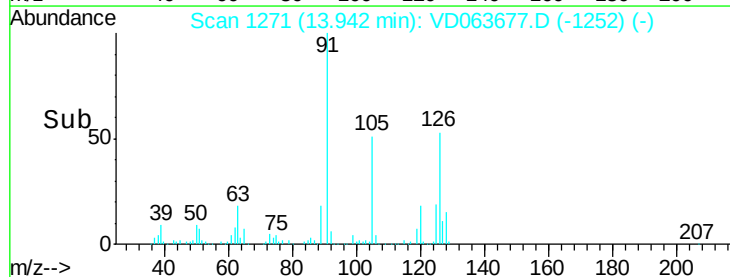
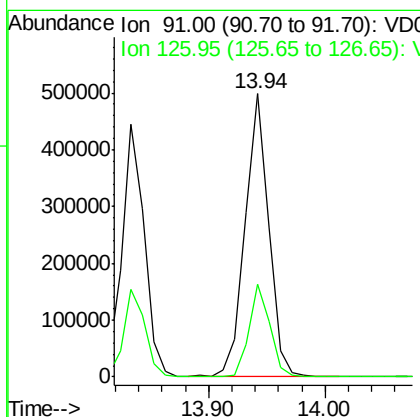
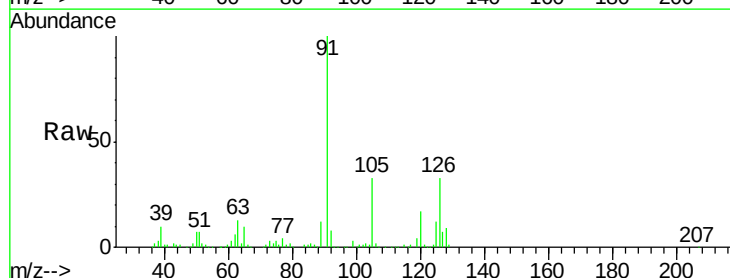
Instrument :
MSVOA_D
ClientSampleId :
VD0820SBSD01

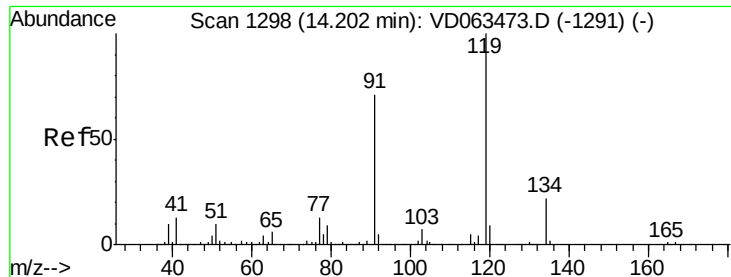
Tot Ion: 75 Resp: 39584
Ion Ratio Lower Upper
75 100
53 127.1 101.0 151.4
89 44.5 37.0 55.6



#82
4-Chlorotoluene
Concen: 21.143 ug/l
RT: 13.94 min Scan# 1271
Delta R.T. -0.01 min
Lab File: VD063677.D
Acq: 20 Aug 2019 11:49

Tgt Ion: 91 Resp: 699911
Ion Ratio Lower Upper
91 100
126 32.6 15.2 45.6

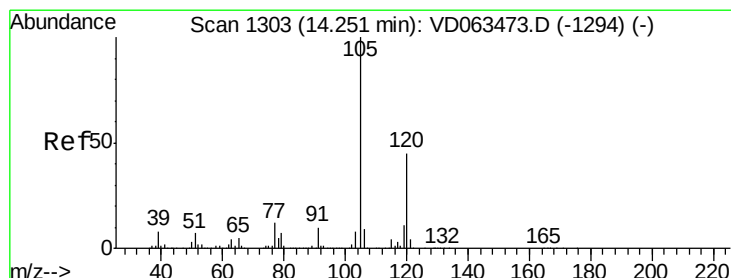
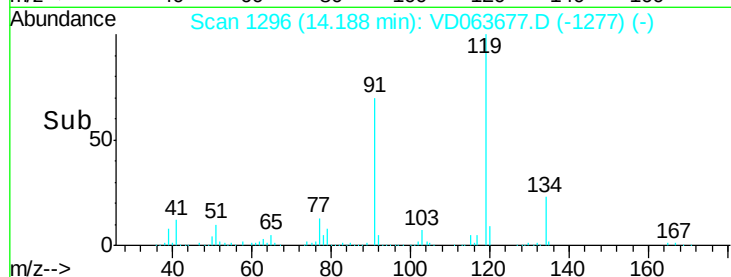
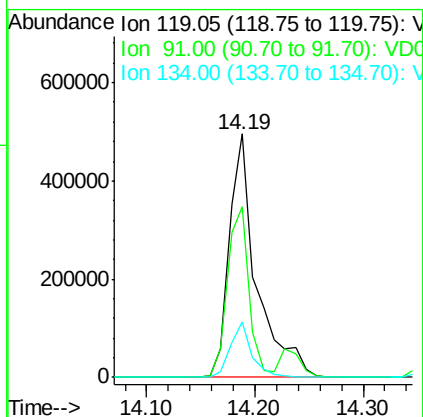
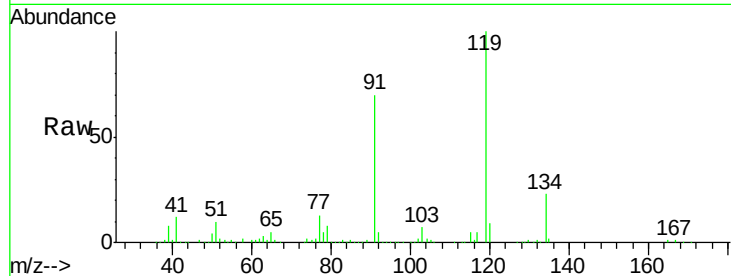




#83
 tert-Butylbenzene
 Concen: 23.106 ug/l
 RT: 14.19 min Scan# 1296
 Delta R.T. -0.01 min
 Lab File: VD063677.D
 Acq: 20 Aug 2019 11:49

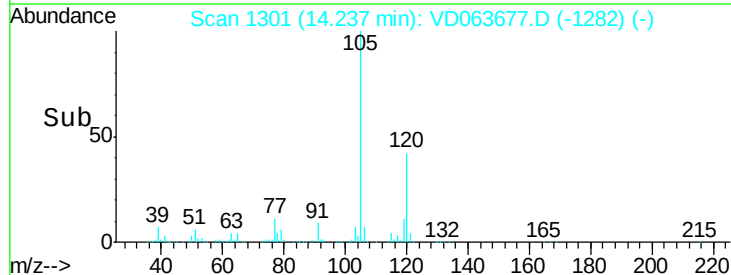
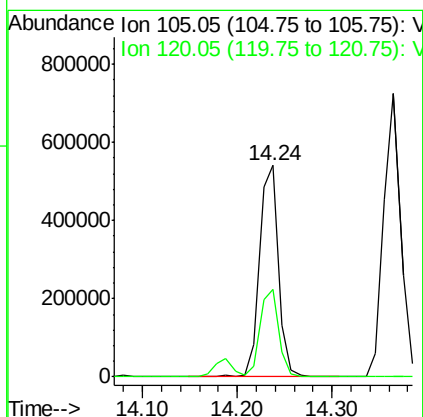
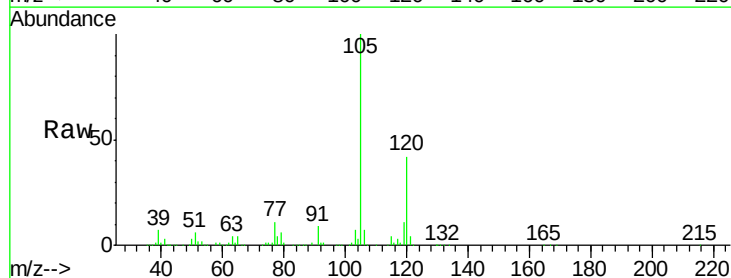
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0820SBSD01

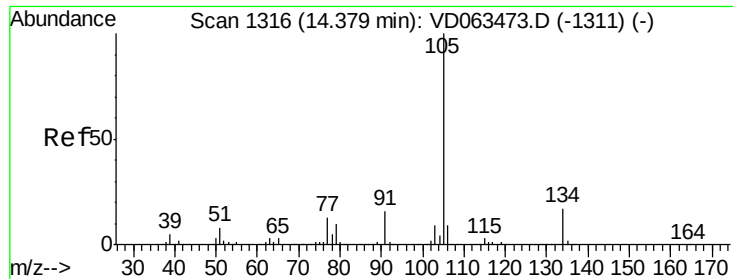
Tot Ion:119 Resp: 867496
 Ion Ratio Lower Upper
 119 100
 91 69.9 35.5 106.7
 134 23.0 11.1 33.1



#84
 1,2,4-Trimethylbenzene
 Concen: 22.897 ug/l
 RT: 14.24 min Scan# 1301
 Delta R.T. -0.01 min
 Lab File: VD063677.D
 Acq: 20 Aug 2019 11:49

Tgt Ion:105 Resp: 755346
 Ion Ratio Lower Upper
 105 100
 120 41.6 22.7 68.1





#85

sec-Butylbenzene

Concen: 22.897 ug/l

RT: 14.37 min Scan# 1314

Delta R.T. -0.01 min

Lab File: VD063677.D

Acq: 20 Aug 2019 11:49

Instrument :

MSVOA_D

ClientSampleId :

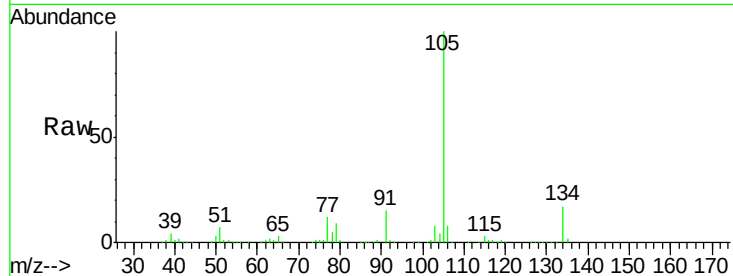
VD0820SBS01

Tot Ion:105 Resp: 912958

Ion Ratio Lower Upper

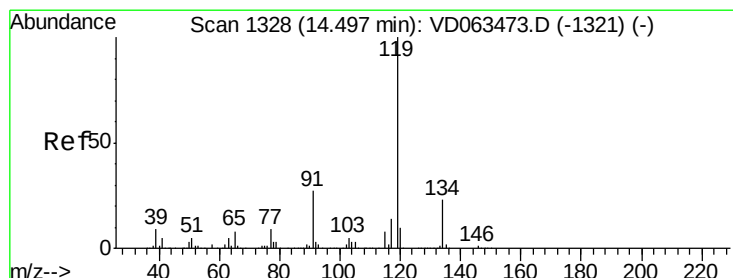
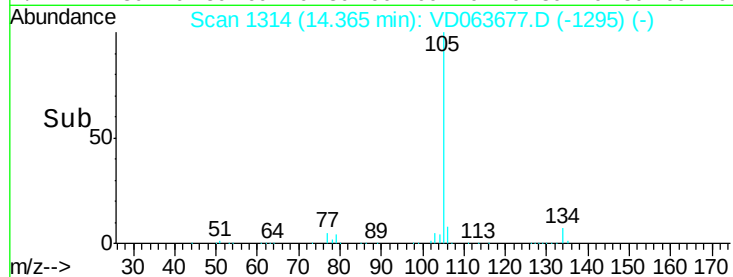
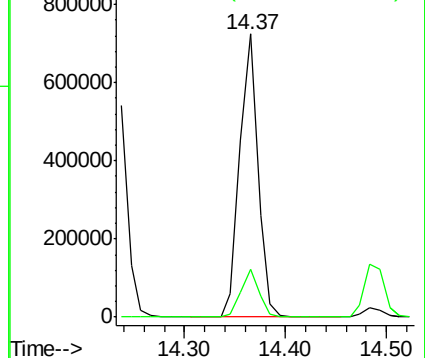
105 100

134 16.9 8.3 24.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#86

p-Isopropyltoluene

Concen: 21.646 ug/l

RT: 14.48 min Scan# 1326

Delta R.T. -0.01 min

Lab File: VD063677.D

Acq: 20 Aug 2019 11:49

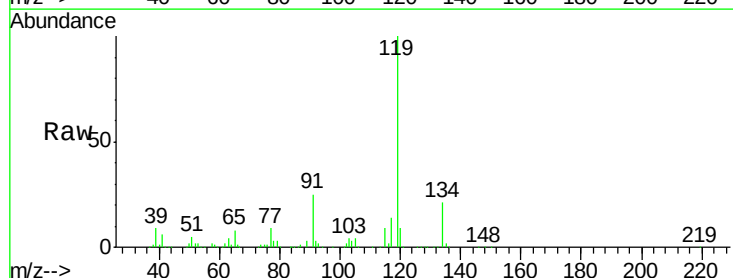
Tgt Ion:119 Resp: 825215

Ion Ratio Lower Upper

119 100

134 21.4 11.3 33.8

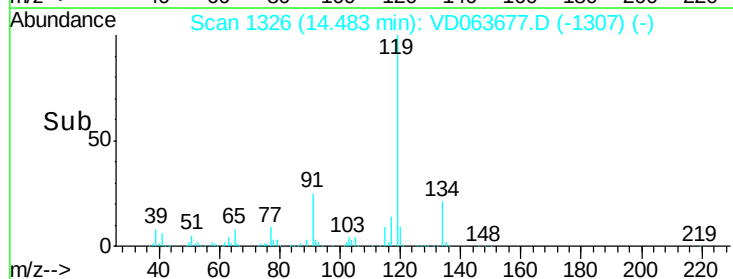
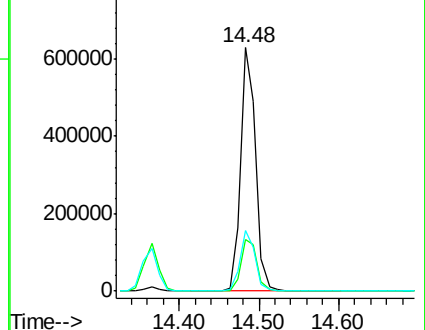
91 24.9 13.5 40.4

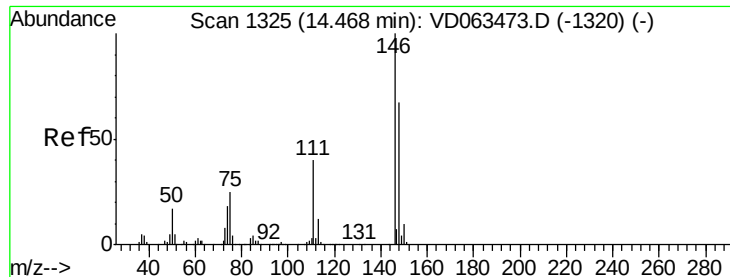


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

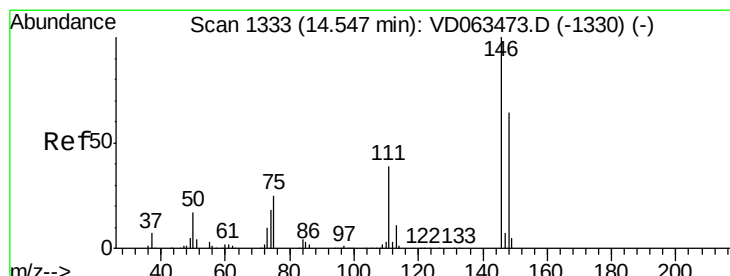
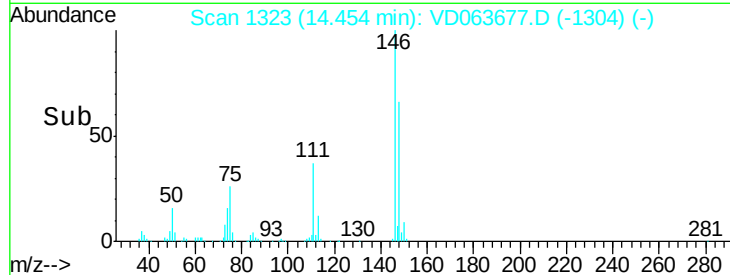
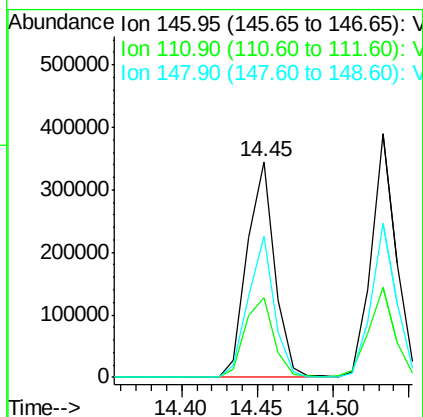
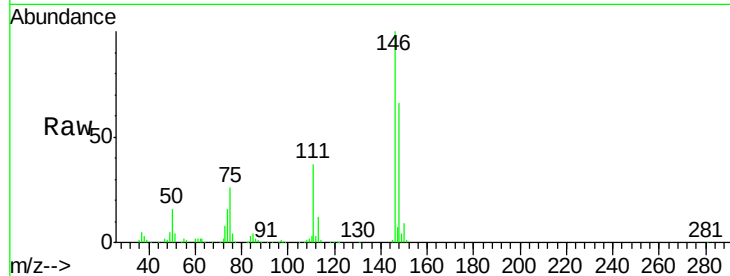




#87
 1,3-Dichlorobenzene
 Concen: 21.670 ug/l
 RT: 14.45 min Scan# 1323
 Delta R.T. -0.01 min
 Lab File: VD063677.D
 Acq: 20 Aug 2019 11:49

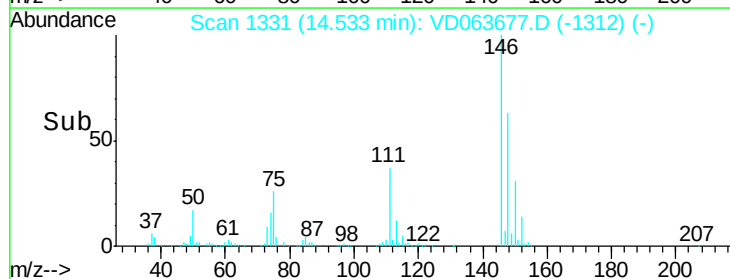
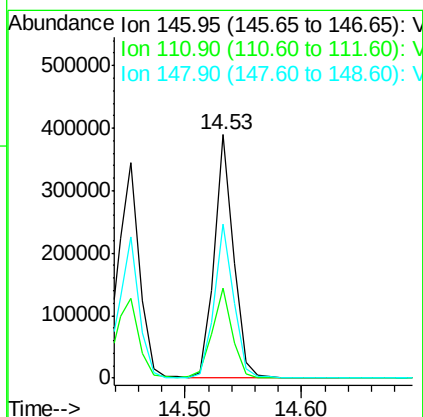
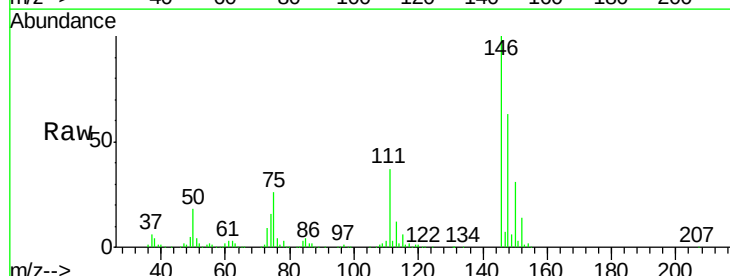
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0820SBSD01

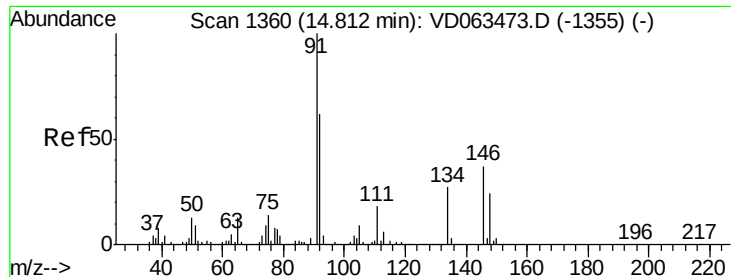
Tot Ion:146 Resp: 437142
 Ion Ratio Lower Upper
 146 100
 111 37.2 20.0 60.0
 148 65.6 33.6 100.6



#88
 1,4-Dichlorobenzene
 Concen: 23.081 ug/l
 RT: 14.53 min Scan# 1331
 Delta R.T. -0.01 min
 Lab File: VD063677.D
 Acq: 20 Aug 2019 11:49

Tgt Ion:146 Resp: 446713
 Ion Ratio Lower Upper
 146 100
 111 37.1 19.7 59.0
 148 63.2 32.1 96.3





#89

n-Butylbenzene

Concen: 20.983 ug/l

RT: 14.80 min Scan# 1358

Delta R.T. -0.01 min

Lab File: VD063677.D

Acq: 20 Aug 2019 11:49

Instrument :

MSVOA_D

ClientSampleId :

VD0820SBSD01

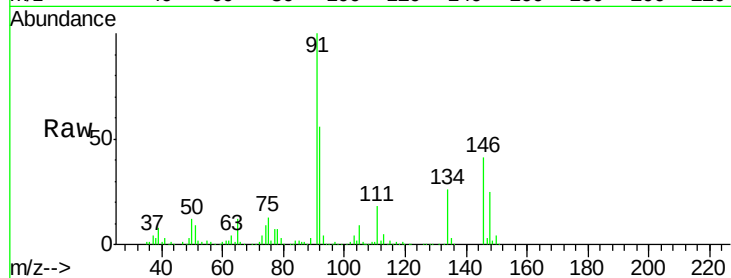
Tot Ion: 91 Resp: 730106

Ion Ratio Lower Upper

91 100

92 55.7 30.8 92.3

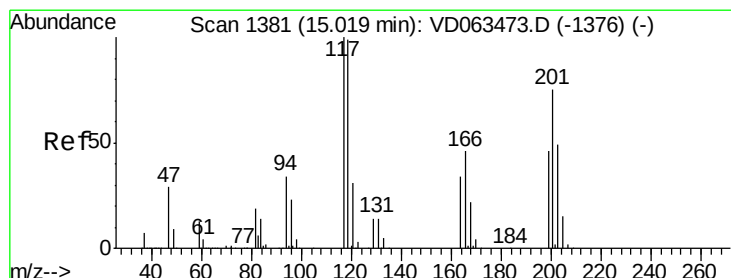
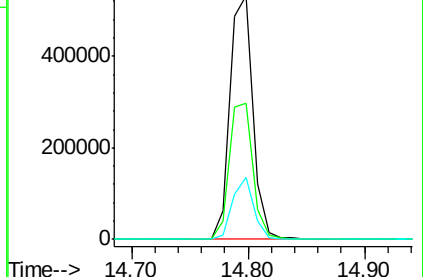
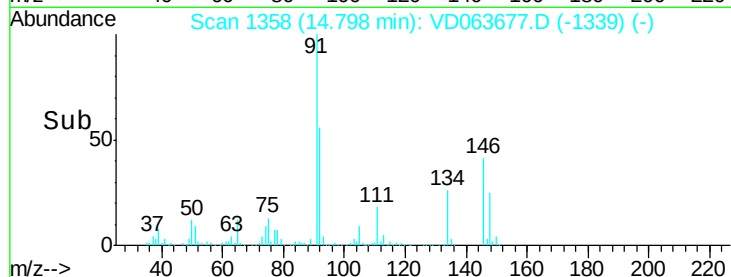
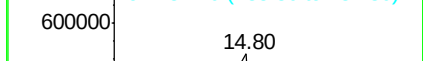
134 25.6 13.4 40.2



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 92.00 (91.70 to 92.70): VDC

Ion 134.10 (133.80 to 134.80): VDC



#90

Hexachloroethane

Concen: 21.113 ug/l

RT: 15.01 min Scan# 1379

Delta R.T. -0.01 min

Lab File: VD063677.D

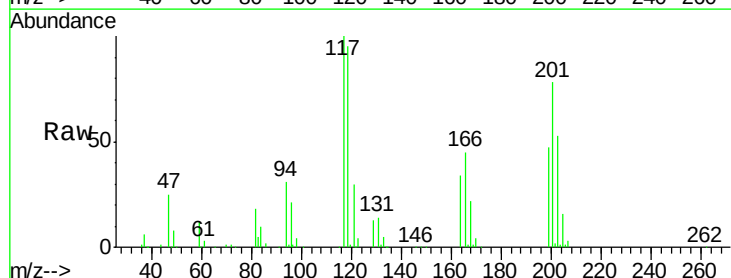
Acq: 20 Aug 2019 11:49

Tgt Ion: 117 Resp: 202306

Ion Ratio Lower Upper

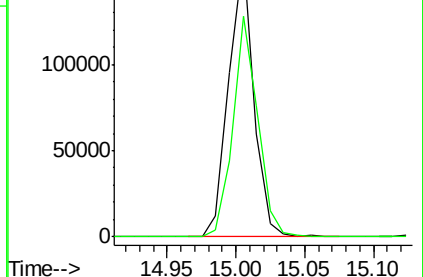
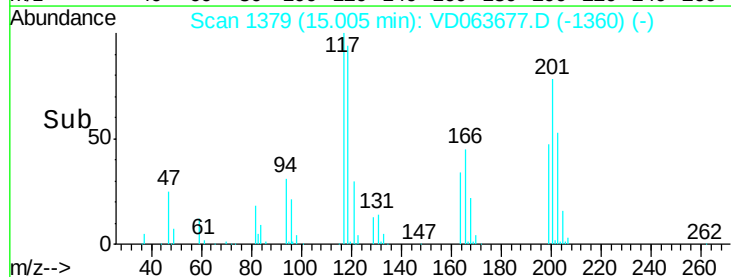
117 100

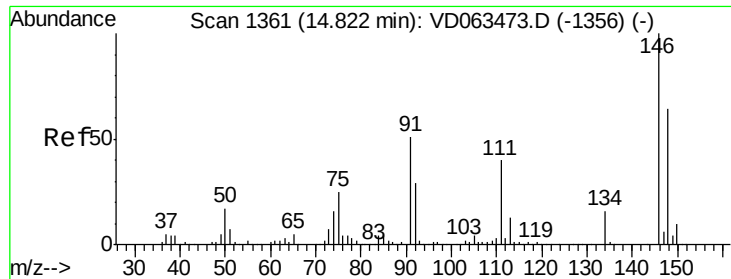
201 78.1 37.5 112.5



Abundance Ion 116.85 (116.55 to 117.55): VDC

Ion 200.75 (200.45 to 201.45): VDC

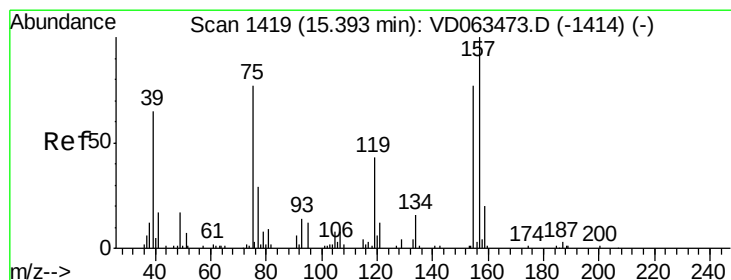
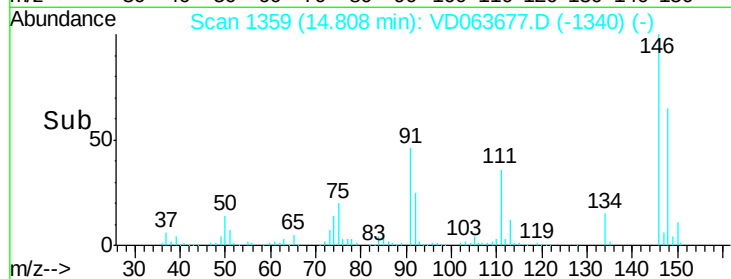
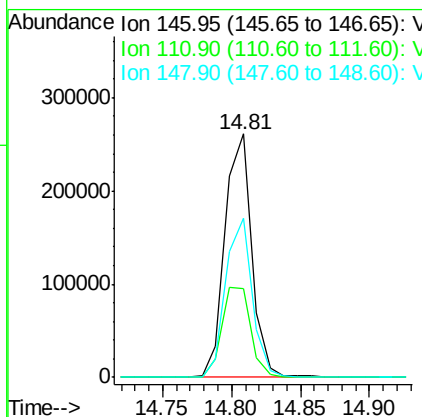
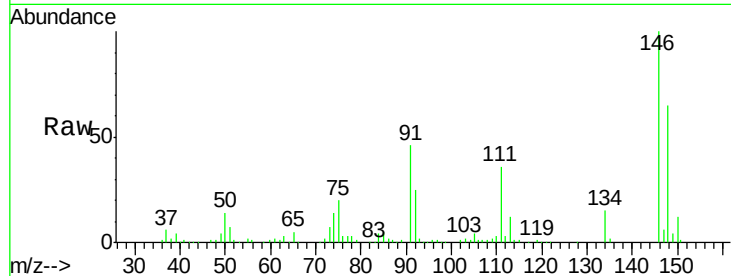




#91
 1,2-Dichlorobenzene
 Concen: 20.590 ug/l
 RT: 14.81 min Scan# 1359
 Delta R.T. -0.01 min
 Lab File: VD063677.D
 Acq: 20 Aug 2019 11:49

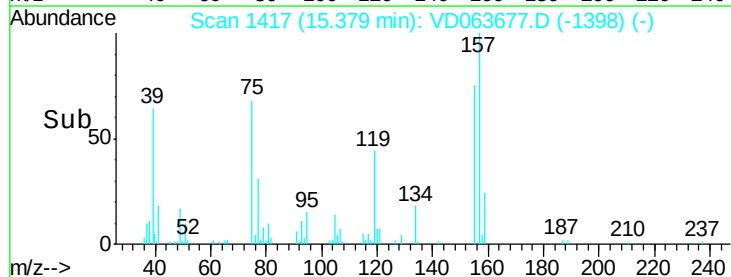
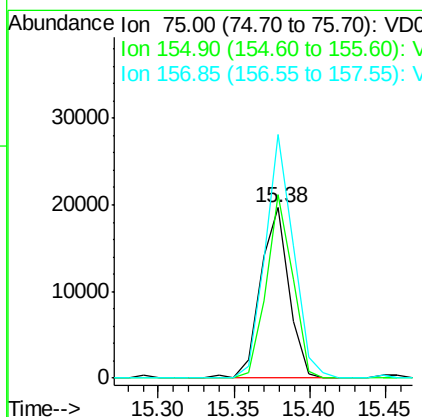
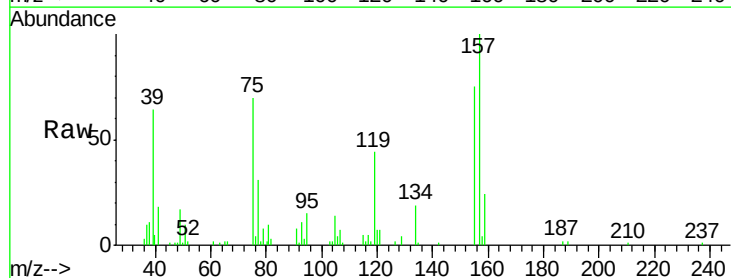
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0820SBSD01

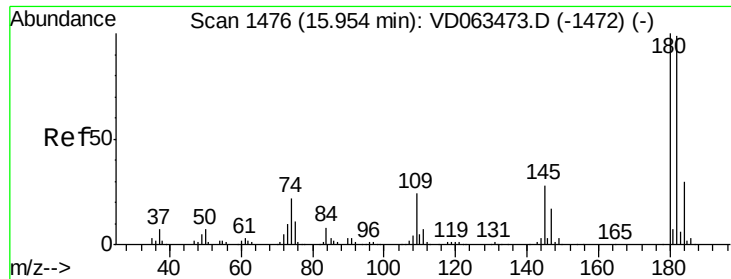
Tot Ion:146 Resp: 352398
 Ion Ratio Lower Upper
 146 100
 111 36.3 20.2 60.6
 148 65.2 32.1 96.5



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.088 ug/l
 RT: 15.38 min Scan# 1417
 Delta R.T. -0.01 min
 Lab File: VD063677.D
 Acq: 20 Aug 2019 11:49

Tgt Ion: 75 Resp: 25619
 Ion Ratio Lower Upper
 75 100
 155 107.5 50.1 150.3
 157 142.8 65.0 195.1

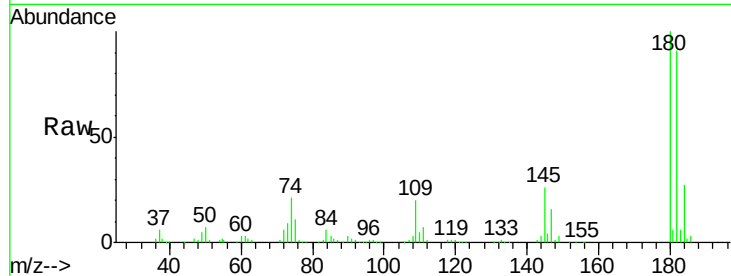




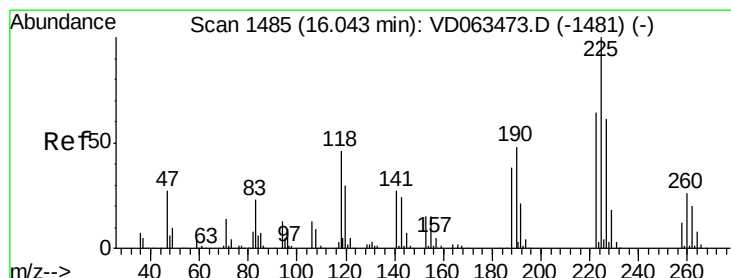
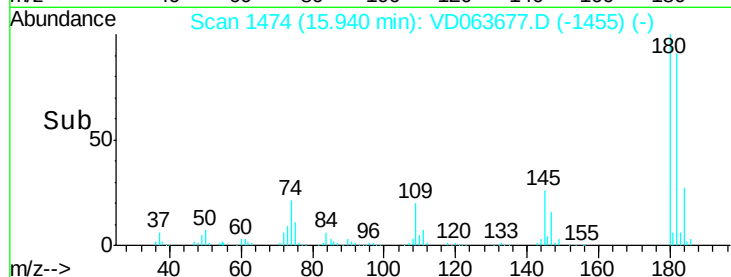
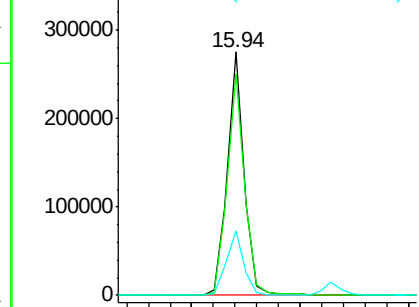
#93
 1,2,4-Trichlorobenzene
 Concen: 23.634 ug/l
 RT: 15.94 min Scan# 1474
 Delta R.T. -0.01 min
 Lab File: VD063677.D
 Acq: 20 Aug 2019 11:49

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0820SBSD01

Tot Ion	Ratio	Lower	Upper
180	100		
182	91.2	49.7	149.1
145	26.4	14.1	42.2

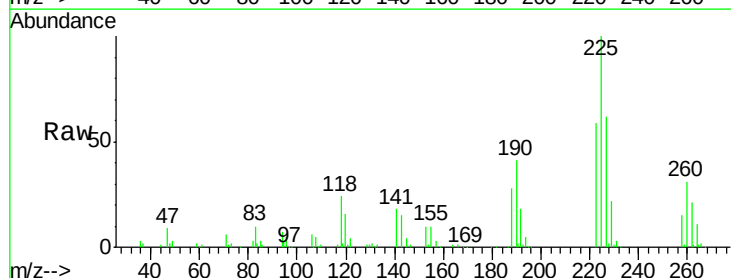


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

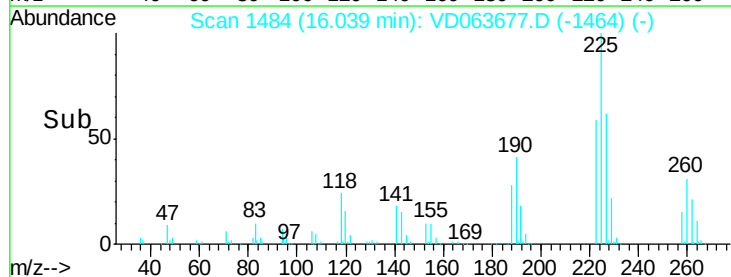
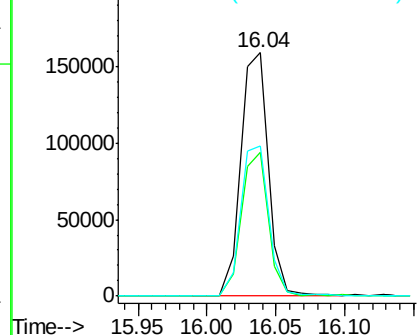


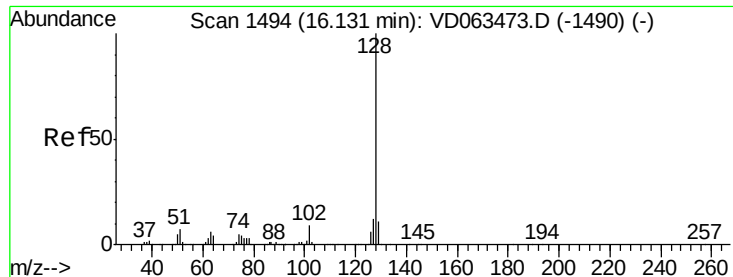
#94
 Hexachlorobutadiene
 Concen: 23.160 ug/l
 RT: 16.04 min Scan# 1484
 Delta R.T. -0.00 min
 Lab File: VD063677.D
 Acq: 20 Aug 2019 11:49

Tgt Ion	Ratio	Lower	Upper
225	100		
223	59.0	31.9	95.5
227	61.7	30.7	92.1



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

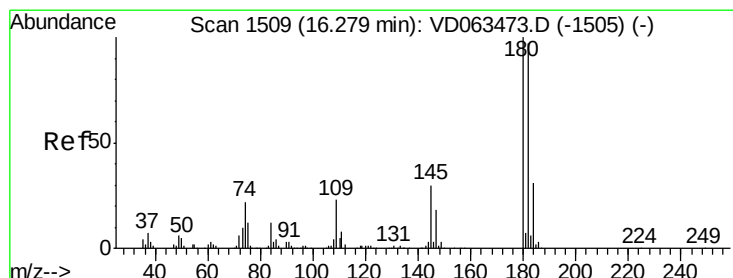
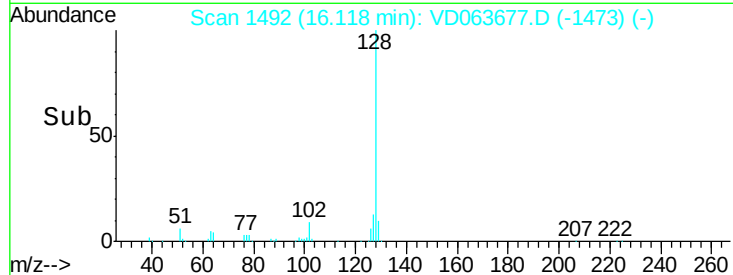
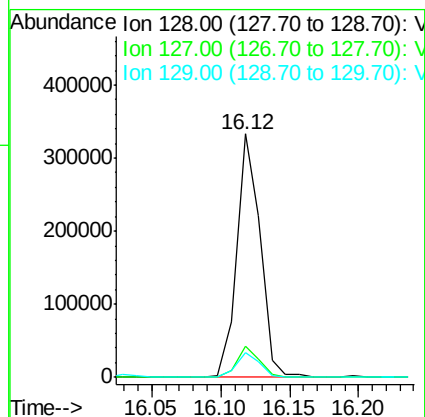
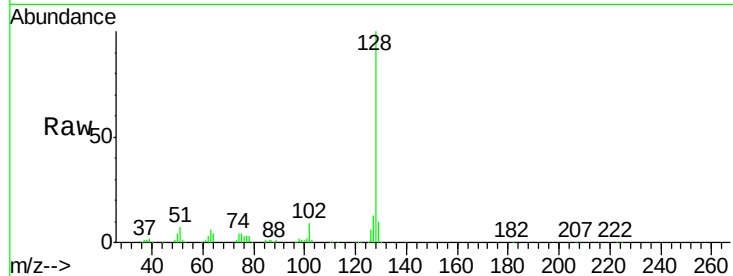




#95
Naphthalene
Concen: 20.696 ug/l
RT: 16.12 min Scan# 1492
Delta R.T. -0.01 min
Lab File: VD063677.D
Acq: 20 Aug 2019 11:49

Instrument :
MSVOA_D
ClientSampleId :
VD0820SBSD01

Tot Ion:128 Resp: 395004
Ion Ratio Lower Upper
128 100
127 12.8 9.4 14.0
129 10.1 8.5 12.7



#96
1,2,3-Trichlorobenzene
Concen: 22.581 ug/l
RT: 16.27 min Scan# 1507
Delta R.T. -0.01 min
Lab File: VD063677.D
Acq: 20 Aug 2019 11:49

Tgt Ion:180 Resp: 229694
Ion Ratio Lower Upper
180 100
182 98.0 48.4 145.2
145 31.4 14.9 44.9

