

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071919\
 Data File : VD063148.D
 Acq On : 19 Jul 2019 12:32
 Operator : VA/AP
 Sample : VD0719SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0719SBS01

Quant Time: Jul 20 04:59:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 08:11:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	673837	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.22	114	979336	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.37	117	788610	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	488349	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	404922	48.24	ug/l	0.00
Spiked Amount			Recovery	=	96.48%	
35) Dibromofluoromethane	6.93	113	435664	44.66	ug/l	0.01
Spiked Amount			Recovery	=	89.32%	
50) Toluene-d8	10.41	98	855665	40.84	ug/l	0.01
Spiked Amount			Recovery	=	81.68%	
62) 4-Bromofluorobenzene	13.56	95	411233	42.42	ug/l	0.01
Spiked Amount			Recovery	=	84.84%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.56	85	187653	24.827	ug/l	98
3) Chloromethane	1.74	50	154678	23.565	ug/l	91
4) Vinyl Chloride	1.84	62	154817	21.527	ug/l	97
5) Bromomethane	2.13	94	52416	16.950	ug/l #	90
6) Chloroethane	2.24	64	69613	20.838	ug/l	96
7) Trichlorofluoromethane	2.52	101	284067	19.512	ug/l	99
8) Diethyl Ether	2.86	74	43125	21.058	ug/l	86
9) 1,1,2-Trichlorotrifluoroet	3.13	101	171604	20.442	ug/l	91
10) Methyl Iodide	3.29	142	208425	20.224	ug/l	98
11) Tert butyl alcohol	4.07	59	62258	128.520	ug/l	96
12) 1,1-Dichloroethene	3.11	96	128922	21.627	ug/l	89
13) Acrolein	3.02	56	18493	126.485	ug/l	87
14) Allyl chloride	3.60	41	214776	22.924	ug/l	99
15) Acrylonitrile	4.18	53	133079	124.277	ug/l	90
16) Acetone	3.22	43	233835	115.339	ug/l	100
17) Carbon Disulfide	3.36	76	376001	22.036	ug/l	99
18) Methyl Acetate	3.63	43	109936	39.728	ug/l #	91
19) Methyl tert-butyl Ether	4.23	73	350843	23.315	ug/l #	92
20) Methylene Chloride	3.80	84	155271	20.272	ug/l	94
21) trans-1,2-Dichloroethene	4.20	96	152723	23.078	ug/l	91
22) Diisopropyl ether	5.12	45	472267	23.185	ug/l	98
23) Vinyl Acetate	5.05	43	1331030	112.002	ug/l	98
24) 1,1-Dichloroethane	4.97	63	277008	22.077	ug/l	99
25) 2-Butanone	6.07	43	223215	115.298	ug/l #	91
26) 2,2-Dichloropropane	6.01	77	289609	20.855	ug/l	97
27) cis-1,2-Dichloroethene	6.03	96	170340	22.628	ug/l	97
28) Bromochloromethane	6.43	49	105137	23.096	ug/l	93
29) Tetrahydrofuran	6.46	42	104831	119.453	ug/l	97
30) Chloroform	6.66	83	341024	22.068	ug/l	97
31) Cyclohexane	6.95	56	165036	20.653	ug/l #	85
32) 1,1,1-Trichloroethane	6.87	97	335330	22.006	ug/l	96
36) 1,1-Dichloropropene	7.15	75	212779	19.318	ug/l	96
37) Ethyl Acetate	6.18	43	106743	22.644	ug/l	99
38) Carbon Tetrachloride	7.11	117	309792	18.510	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.87	83	172426	18.107	ug/l	97
40) Benzene	7.45	78	473888	20.542	ug/l	93
41) Methacrylonitrile	6.45	41	141331	22.114	ug/l #	88
42) 1,2-Dichloroethane	7.58	62	244723	19.912	ug/l	98
43) Isopropyl Acetate	9.24	43	154144	22.814	ug/l #	95
44) Trichloroethene	8.54	130	189561	21.263	ug/l	91
45) 1,2-Dichloropropane	8.95	63	115094	20.011	ug/l	95
46) Dibromomethane	9.06	93	99524	20.137	ug/l	93
47) Bromodichloromethane	9.38	83	259970	20.157	ug/l #	86
48) Methyl methacrylate	9.12	41	98262	22.146	ug/l	95
49) 1,4-Dioxane	9.09	88	18229	476.373	ug/l #	82
51) 4-Methyl-2-Pentanone	10.31	43	506813	113.093	ug/l	94
52) Toluene	10.51	92	302537	19.639	ug/l	96
53) t-1,3-Dichloropropene	10.92	75	227896	20.624	ug/l	96
54) cis-1,3-Dichloropropene	10.04	75	221285	19.368	ug/l	100
55) 1,1,2-Trichloroethane	11.19	97	113693	21.357	ug/l	89
56) Ethyl methacrylate	11.04	69	132150	22.217	ug/l	96
57) 1,3-Dichloropropane	11.42	76	165384	20.416	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.86	63	346498	104.622	ug/l	99
59) 2-Hexanone	11.54	43	395230	114.358	ug/l	100
60) Dibromochloromethane	11.69	129	204415	20.032	ug/l	94
61) 1,2-Dibromoethane	11.81	107	140319	22.020	ug/l	99
64) Tetrachloroethene	11.26	164	157089	20.529	ug/l	95
65) Chlorobenzene	12.40	112	382812	20.650	ug/l	99
66) 1,1,1,2-Tetrachloroethane	12.52	131	180281	20.976	ug/l	98
67) Ethyl Benzene	12.53	91	670920	20.829	ug/l	98
68) m/p-Xylenes	12.68	106	469749	40.718	ug/l	97
69) o-Xylene	13.05	106	221483	20.247	ug/l	96
70) Styrene	13.08	104	400703	20.926	ug/l	96
71) Bromoform	13.24	173	136892	22.750	ug/l #	97
73) Isopropylbenzene	13.41	105	723139	19.174	ug/l	97
74) N-amyl acetate	13.27	43	203424	19.341	ug/l	95
75) 1,1,2,2-Tetrachloroethane	13.70	83	133435	19.446	ug/l	95
76) 1,2,3-Trichloropropane	13.74	75	154372	20.549	ug/l	99
77) Bromobenzene	13.67	156	193140	18.059	ug/l	77
78) n-propylbenzene	13.78	91	813374	18.741	ug/l	99
79) 2-Chlorotoluene	13.85	91	475180	18.108	ug/l	97
80) 1,3,5-Trimethylbenzene	13.94	105	583400	17.749	ug/l	99
81) trans-1,4-Dichloro-2-buten	13.48	75	37106	18.757	ug/l #	93
82) 4-Chlorotoluene	13.95	91	558117	18.214	ug/l	92
83) tert-Butylbenzene	14.19	119	687200	18.490	ug/l	92
84) 1,2,4-Trimethylbenzene	14.24	105	607924	18.552	ug/l	97
85) sec-Butylbenzene	14.37	105	693935	17.573	ug/l	95
86) p-Isopropyltoluene	14.50	119	688777	18.698	ug/l	98
87) 1,3-Dichlorobenzene	14.46	146	358653	18.778	ug/l	99
88) 1,4-Dichlorobenzene	14.54	146	371094	20.267	ug/l	96
89) n-Butylbenzene	14.80	91	593325	17.475	ug/l	99
90) Hexachloroethane	15.01	117	165383	16.794	ug/l	84
91) 1,2-Dichlorobenzene	14.81	146	317751	18.683	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	15.38	75	25553	19.428	ug/l	79

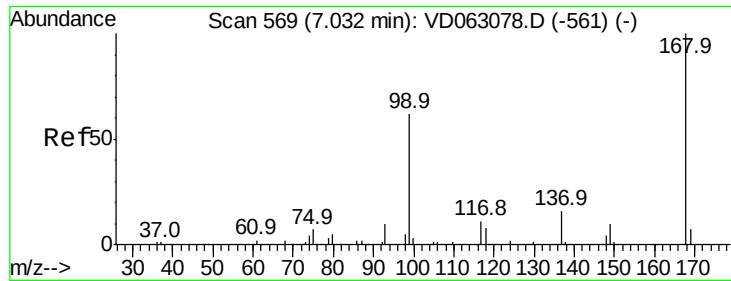
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD071919\
Data File : VD063148.D
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.95	180	247584	19.376	ug/l	98
94) Hexachlorobutadiene	16.04	225	169315	17.978	ug/l	97
95) Naphthalene	16.13	128	364620	19.508	ug/l	96
96) 1,2,3-Trichlorobenzene	16.27	180	196275	19.095	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

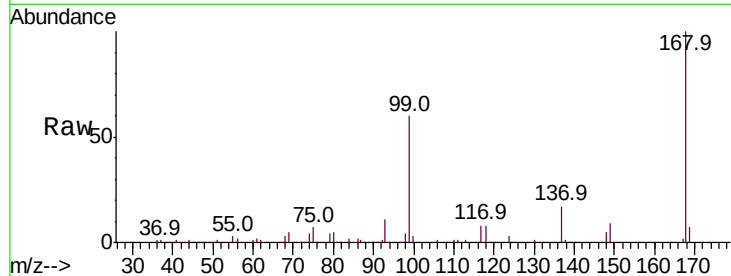
VD0719SBS01

Tot Ion:168 Resp: 673837

Ion Ratio Lower Upper

168 100

99 59.7 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

250000

200000

150000

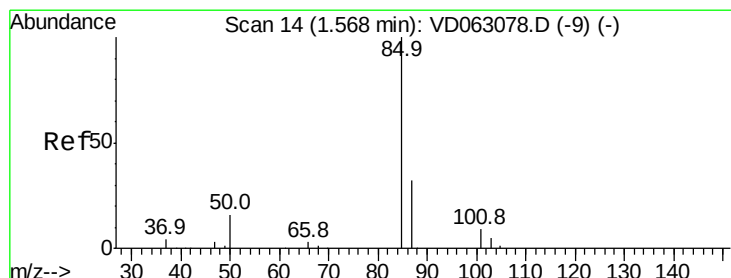
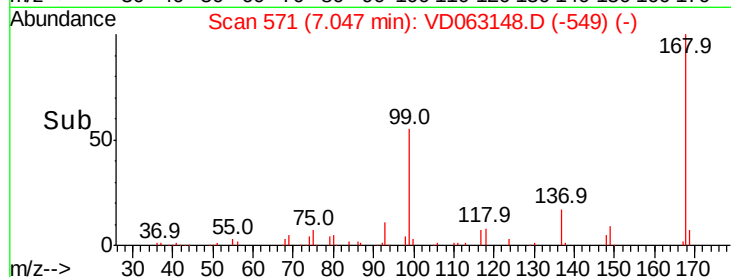
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#2

Dichlorodifluoromethane

Concen: 24.827 ug/l

RT: 1.56 min Scan# 14

Delta R.T. -0.00 min

Lab File: VD063148.D

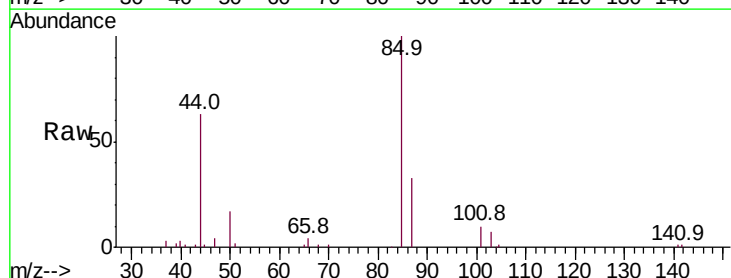
Acq: 19 Jul 2019 12:32

Tgt Ion: 85 Resp: 187653

Ion Ratio Lower Upper

85 100

87 33.0 15.9 47.7



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.56

80000

60000

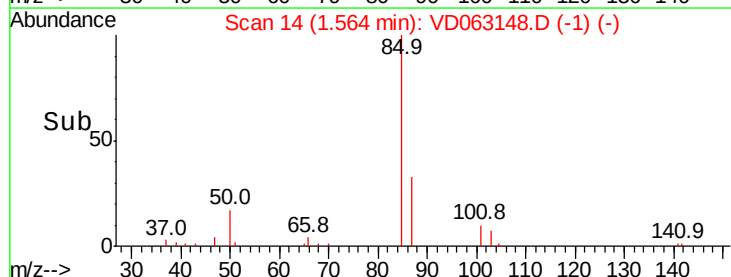
40000

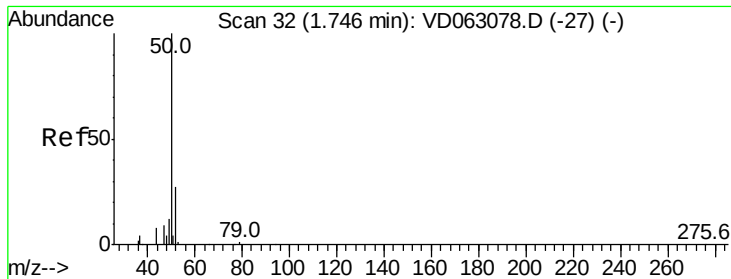
20000

0

1.50 1.60 1.70

Time-->





#3

Chloromethane

Concen: 23.565 ug/l

RT: 1.74 min Scan# 32

Delta R.T. -0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

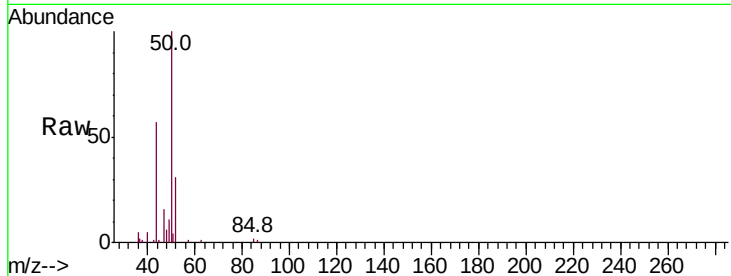
VD0719SBS01

Tot Ion: 50 Resp: 154678

Ion Ratio Lower Upper

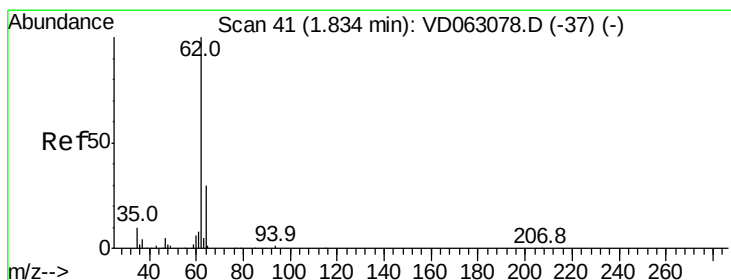
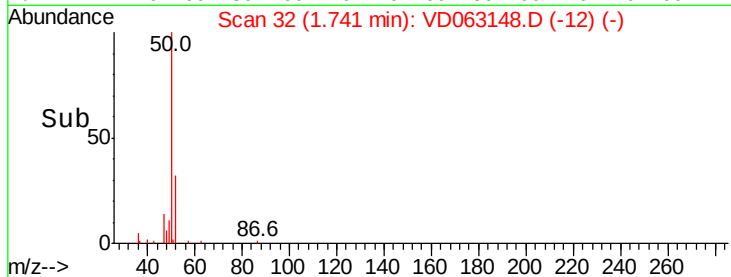
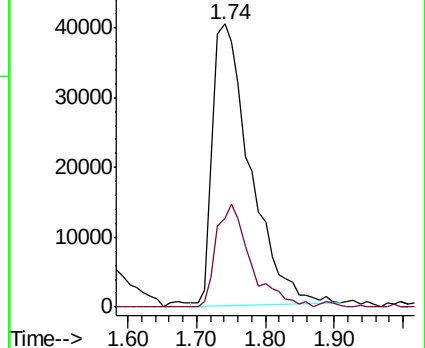
50 100

52 31.4 21.4 32.2



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 21.527 ug/l

RT: 1.84 min Scan# 42

Delta R.T. 0.00 min

Lab File: VD063148.D

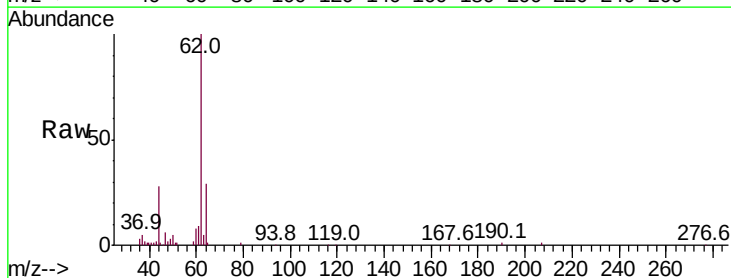
Acq: 19 Jul 2019 12:32

Tgt Ion: 62 Resp: 154817

Ion Ratio Lower Upper

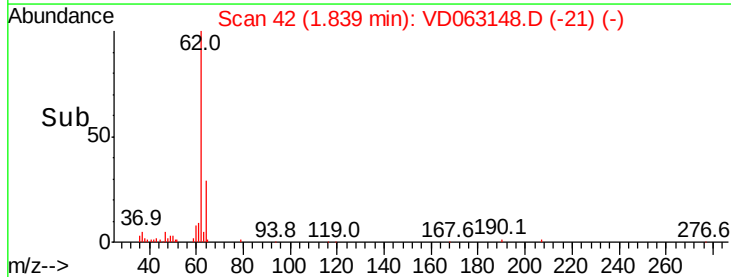
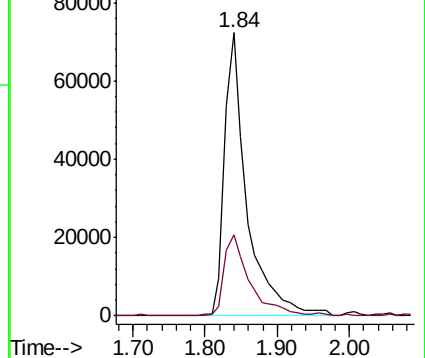
62 100

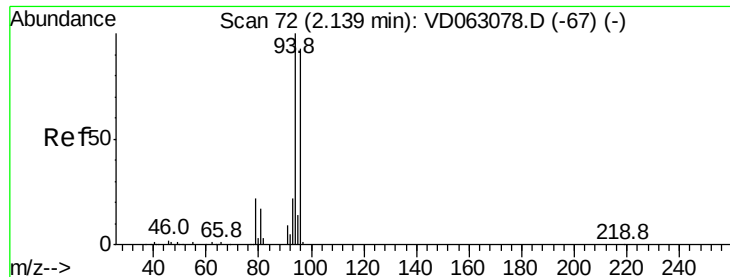
64 28.7 24.4 36.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 16.950 ug/l

RT: 2.13 min Scan# 72

Delta R.T. -0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

VD0719SBS01

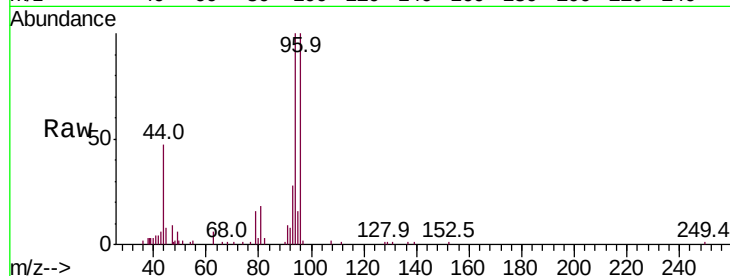
Tot Ion: 94 Resp: 52416

Ion Ratio Lower Upper

94 100

96 102.0 74.2 111.2

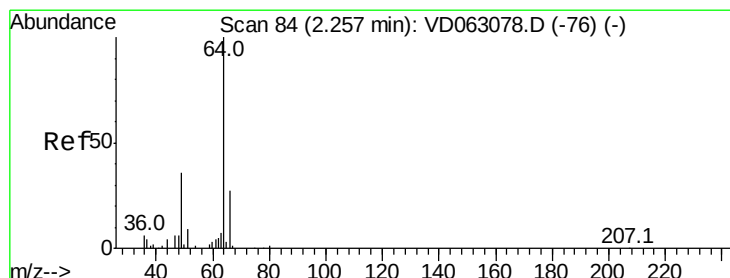
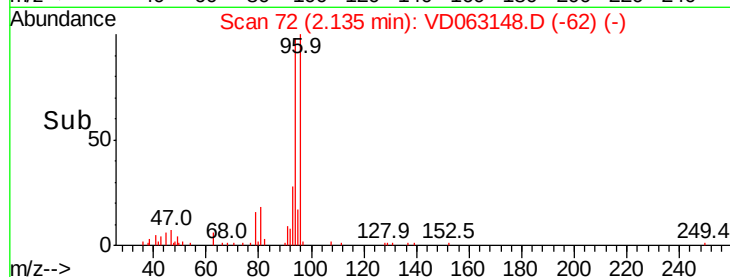
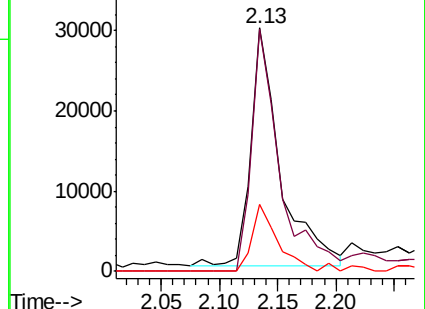
93 27.7 17.8 26.6#



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC



#6

Chloroethane

Concen: 20.838 ug/l

RT: 2.24 min Scan# 83

Delta R.T. -0.01 min

Lab File: VD063148.D

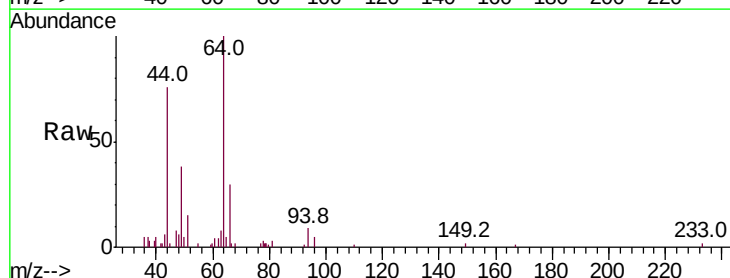
Acq: 19 Jul 2019 12:32

Tgt Ion: 64 Resp: 69613

Ion Ratio Lower Upper

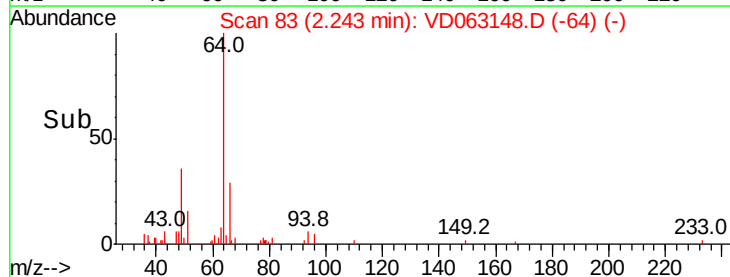
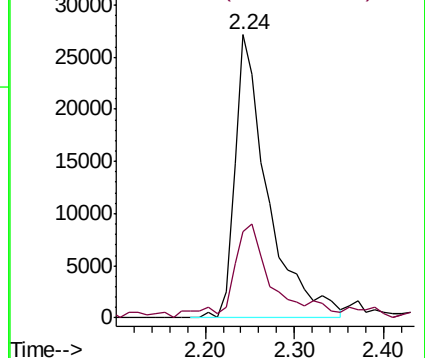
64 100

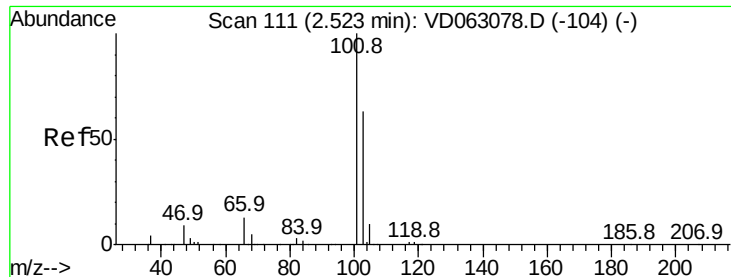
66 30.3 22.5 33.7



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



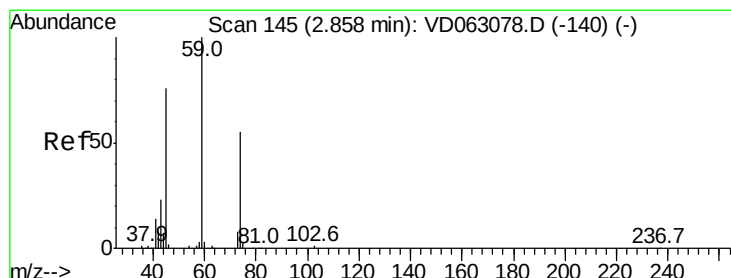
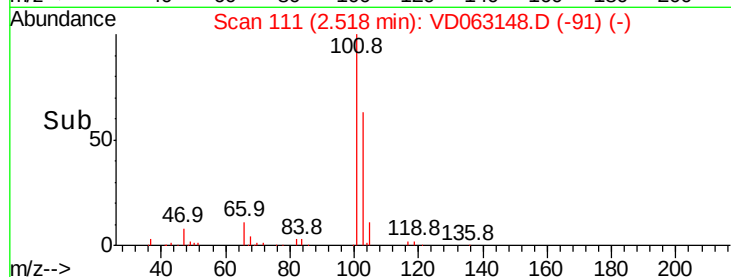
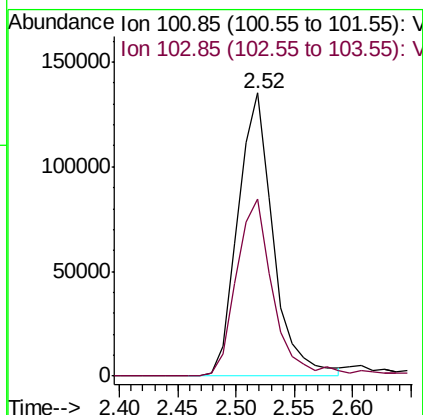
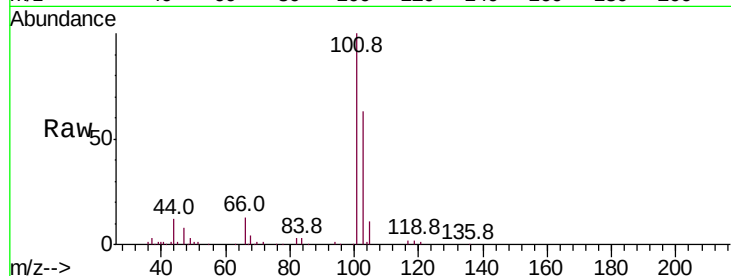


#7

Trichlorofluoromethane
 Concen: 19.512 ug/l
 RT: 2.52 min Scan# 111
 Delta R.T. -0.00 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0719SBS01

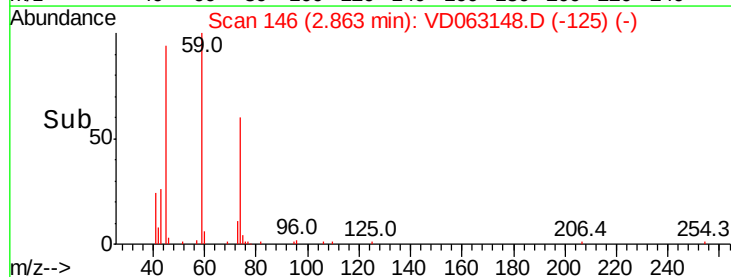
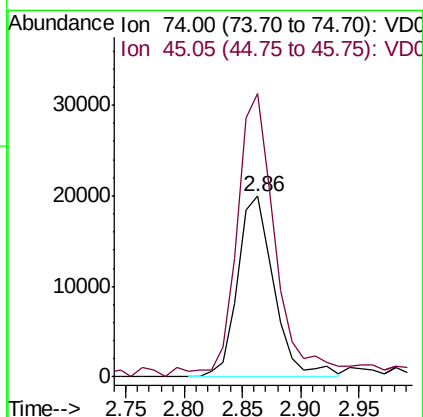
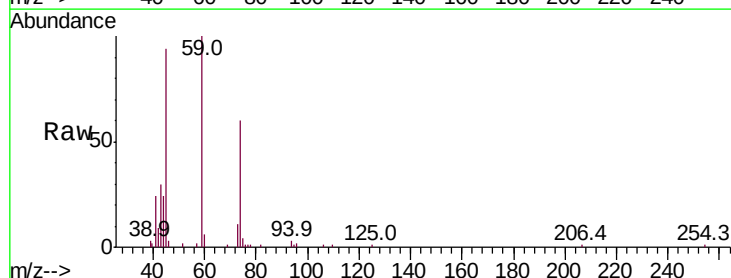
Tot Ion:101 Resp: 284067
 Ion Ratio Lower Upper
 101 100
 103 62.5 50.6 76.0

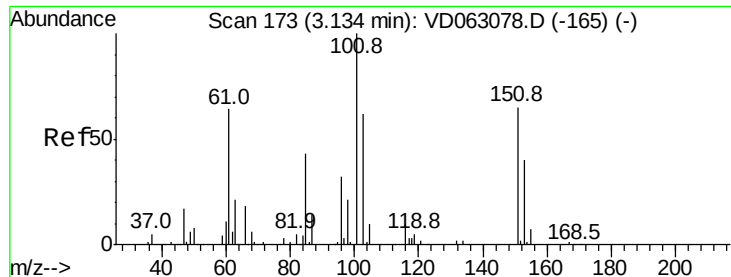


#8

Diethyl Ether
 Concen: 21.058 ug/l
 RT: 2.86 min Scan# 146
 Delta R.T. 0.00 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

Tgt Ion: 74 Resp: 43125
 Ion Ratio Lower Upper
 74 100
 45 156.6 69.5 208.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.442 ug/l

RT: 3.13 min Scan# 173

Delta R.T. -0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

VD0719SBS01

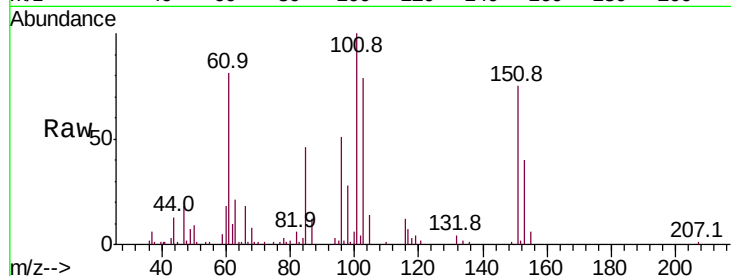
Tot Ion:101 Resp: 171604

Ion Ratio Lower Upper

101 100

85 46.1 34.6 51.8

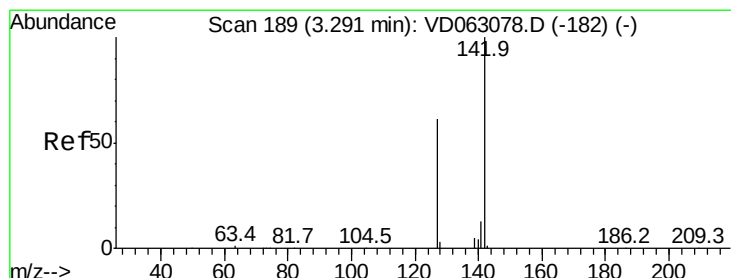
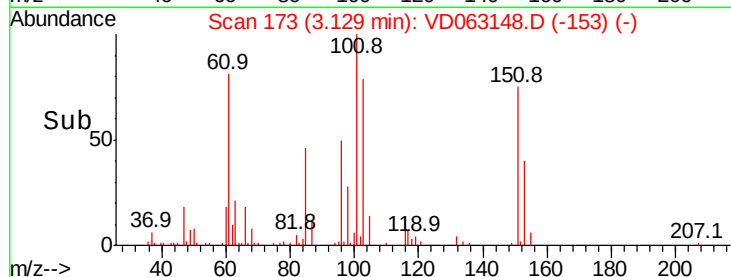
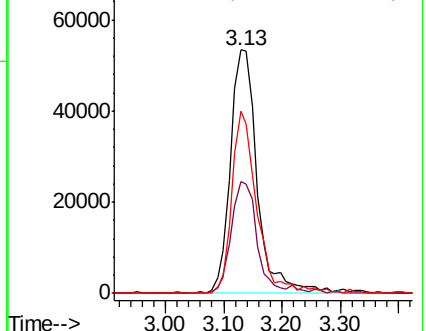
151 74.6 52.4 78.6



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 20.224 ug/l

RT: 3.29 min Scan# 189

Delta R.T. -0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

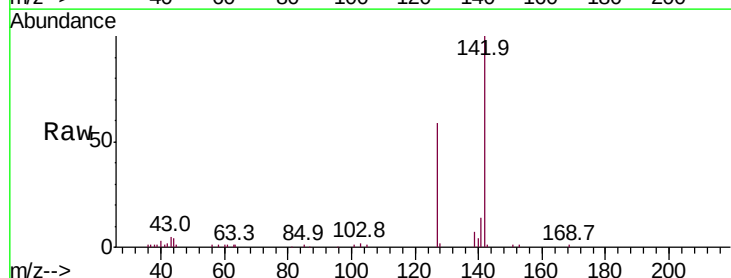
Tgt Ion:142 Resp: 208425

Ion Ratio Lower Upper

142 100

127 58.9 48.6 73.0

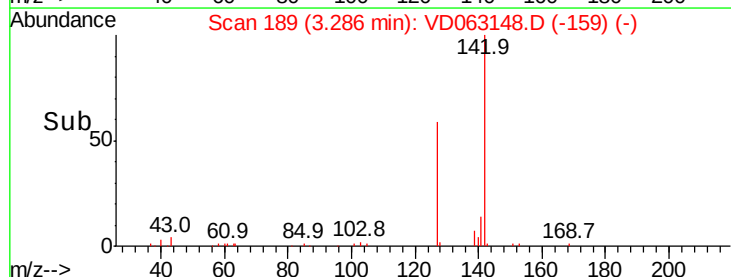
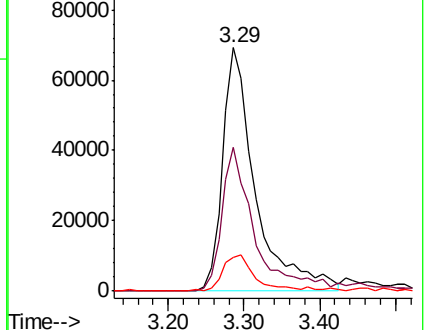
141 13.6 10.6 16.0

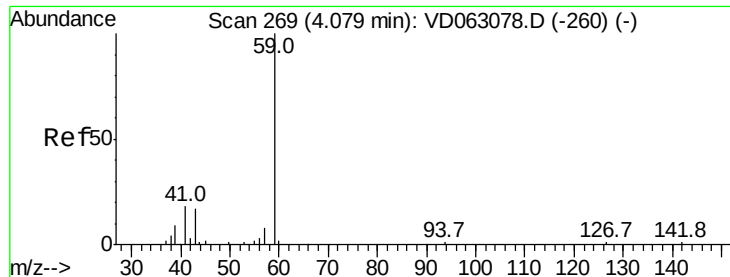


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



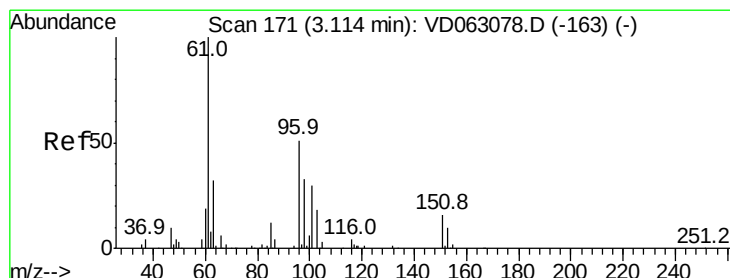
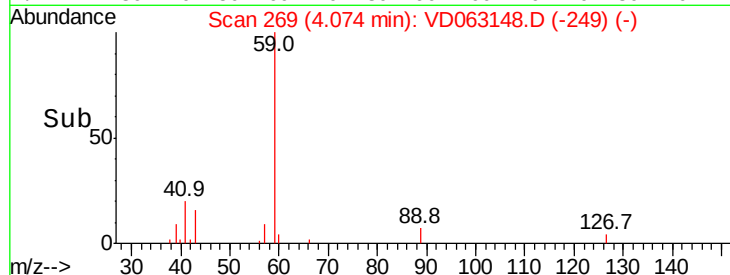
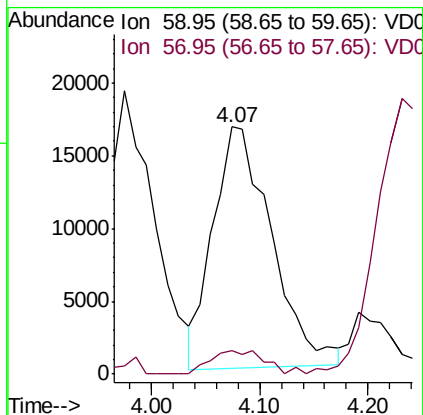
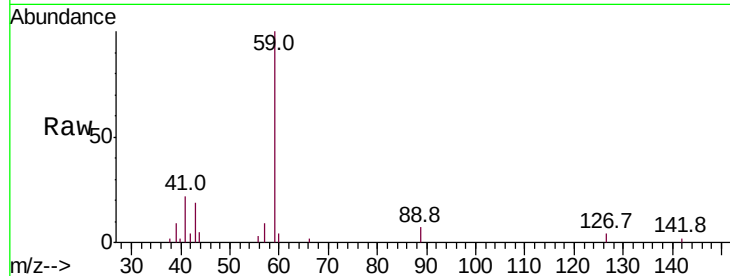


#11

Tert butyl alcohol
Concen: 128.520 ug/l
RT: 4.07 min Scan# 269
Delta R.T. -0.00 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

Instrument :
MSVOA_D
ClientSampleId :
VD0719SBS01

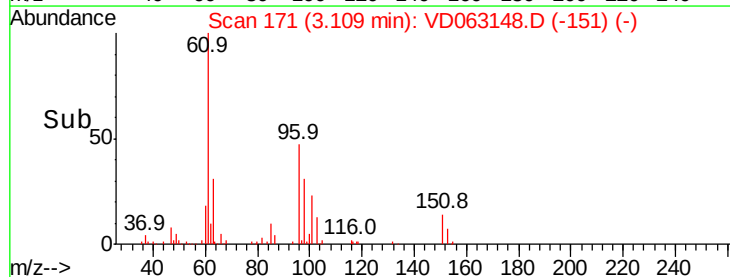
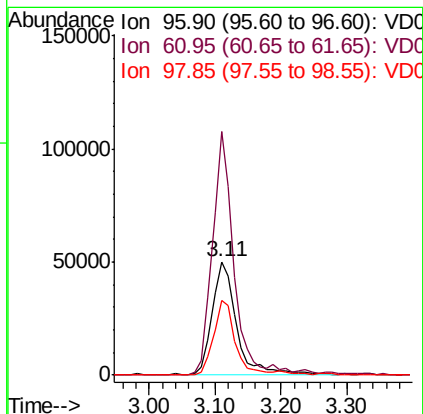
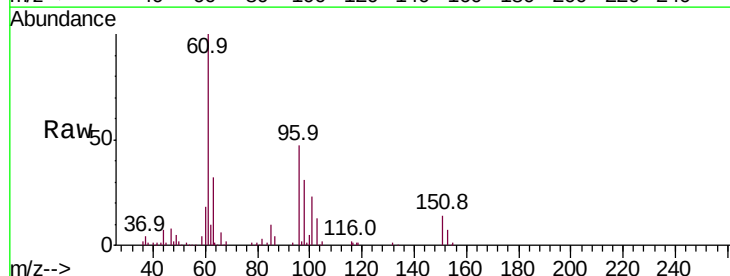
Tot Ion: 59 Resp: 62258
Ion Ratio Lower Upper
59 100
57 9.5 6.4 9.6

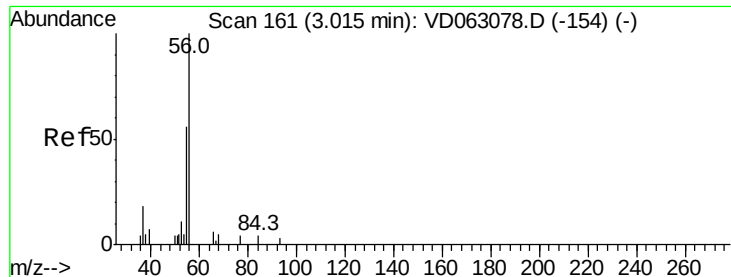


#12

1,1-Dichloroethene
Concen: 21.627 ug/l
RT: 3.11 min Scan# 171
Delta R.T. -0.00 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

Tgt Ion: 96 Resp: 128922
Ion Ratio Lower Upper
96 100
61 214.4 155.5 233.3
98 66.1 51.5 77.3





#13

Acrolein

Concen: 126.485 ug/l

RT: 3.02 min Scan# 162

Delta R.T. 0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

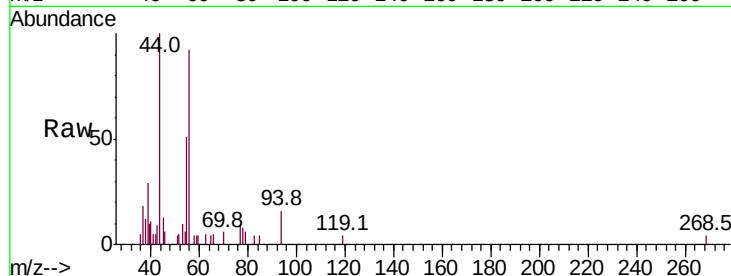
VD0719SBS01

Tot Ion: 56 Resp: 18493

Ion Ratio Lower Upper

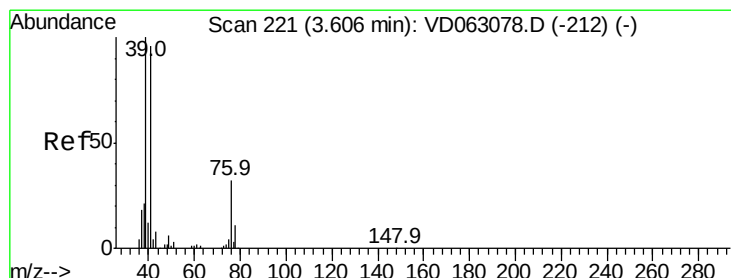
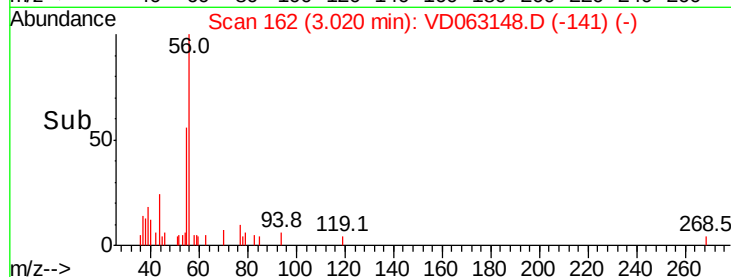
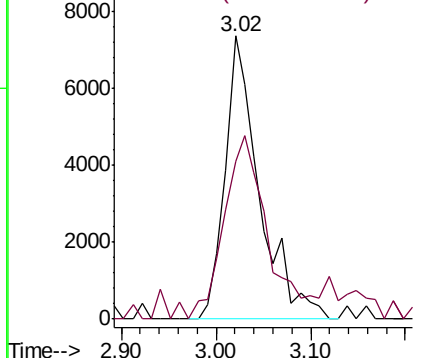
56 100

55 55.9 53.0 79.4



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 22.924 ug/l

RT: 3.60 min Scan# 221

Delta R.T. -0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

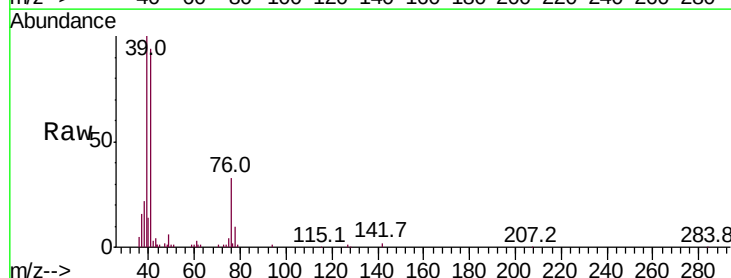
Tgt Ion: 41 Resp: 214776

Ion Ratio Lower Upper

41 100

39 105.9 83.5 125.3

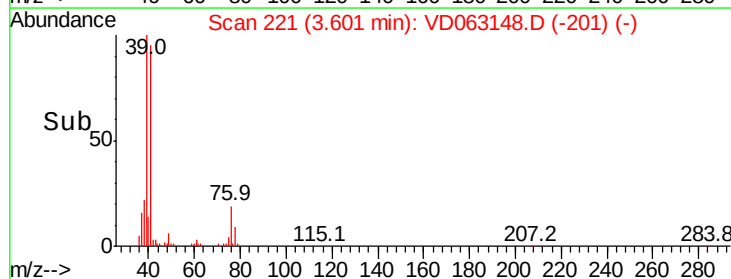
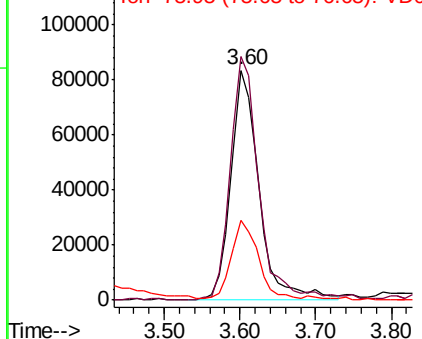
76 34.6 27.8 41.8

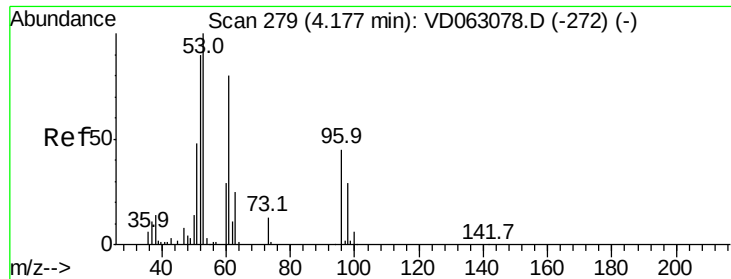


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 124.277 ug/l

RT: 4.18 min Scan# 280

Delta R.T. 0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

VD0719SBS01

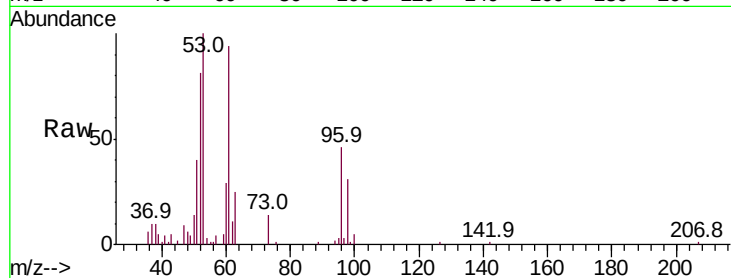
Tot Ion: 53 Resp: 133079

Ion Ratio Lower Upper

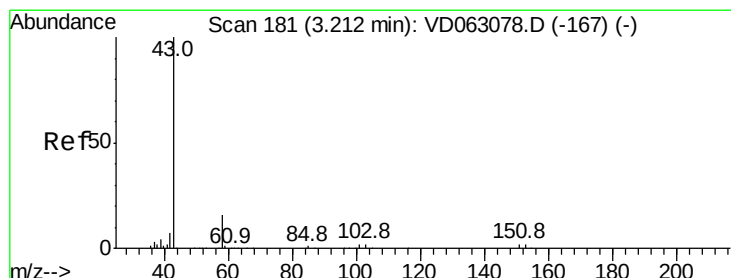
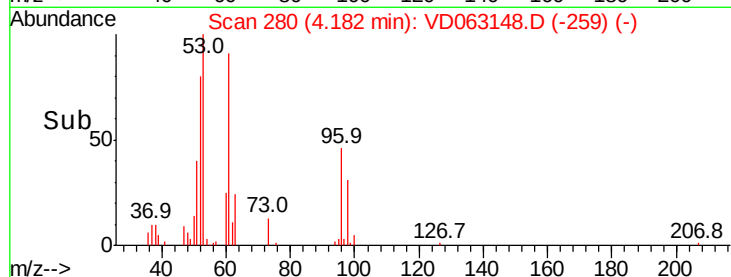
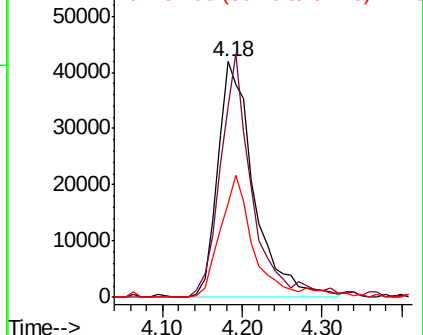
53 100

52 80.9 72.3 108.5

51 40.0 38.0 57.0



Abundance Ion 53.00 (52.70 to 53.70): VDC
Ion 52.00 (51.70 to 52.70): VDC
Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 115.339 ug/l

RT: 3.22 min Scan# 182

Delta R.T. 0.00 min

Lab File: VD063148.D

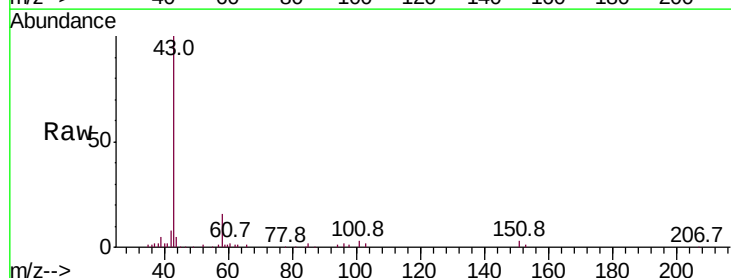
Acq: 19 Jul 2019 12:32

Tgt Ion: 43 Resp: 233835

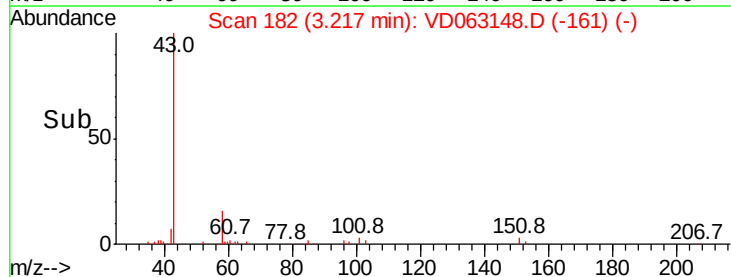
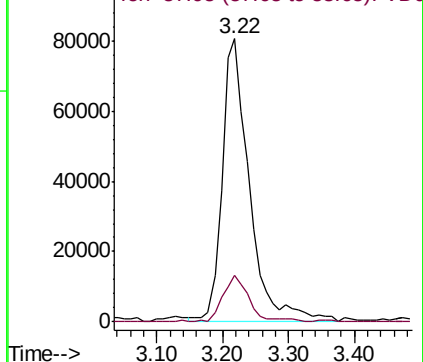
Ion Ratio Lower Upper

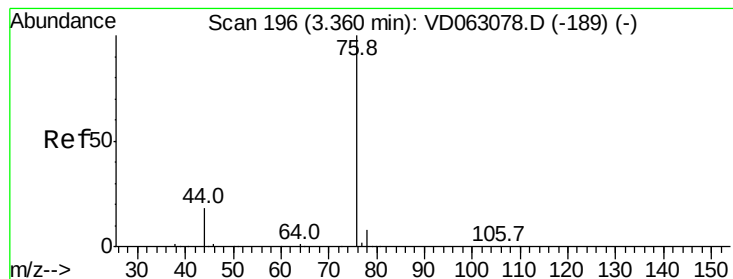
43 100

58 16.2 13.0 19.4



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





#17

Carbon Disulfide

Concen: 22.036 ug/l

RT: 3.36 min Scan# 196

Delta R.T. -0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

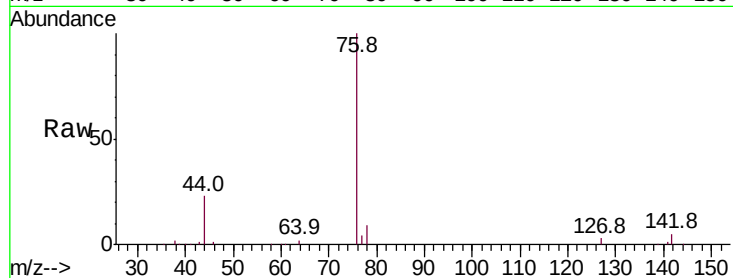
VD0719SBS01

Tot Ion: 76 Resp: 376001

Ion Ratio Lower Upper

76 100

78 8.7 6.7 10.1



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

3.36

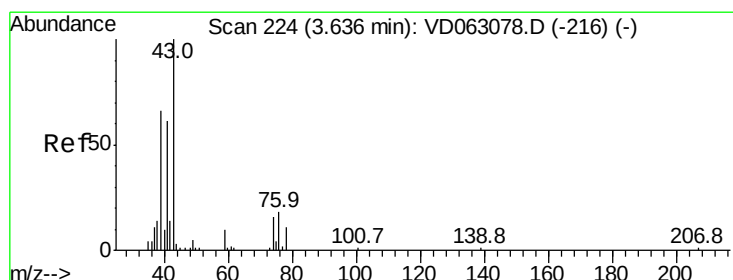
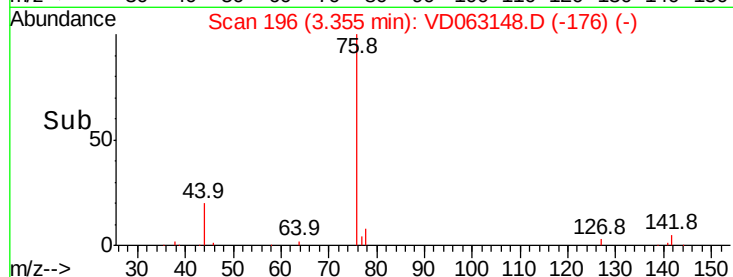
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 39.728 ug/l

RT: 3.63 min Scan# 224

Delta R.T. -0.00 min

Lab File: VD063148.D

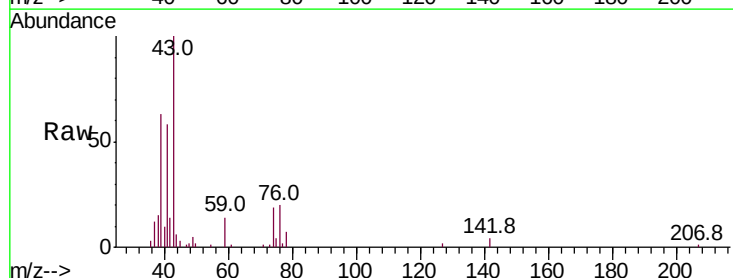
Acq: 19 Jul 2019 12:32

Tgt Ion: 43 Resp: 109936

Ion Ratio Lower Upper

43 100

74 19.3 12.5 18.7#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

3.63

40000

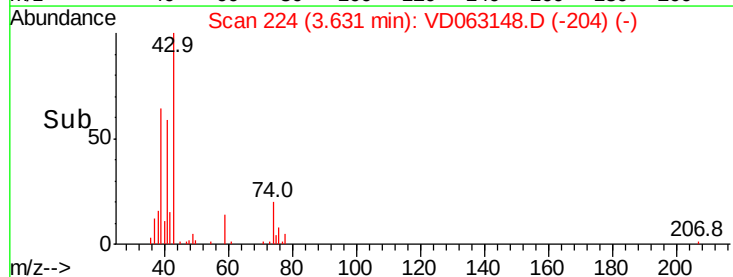
30000

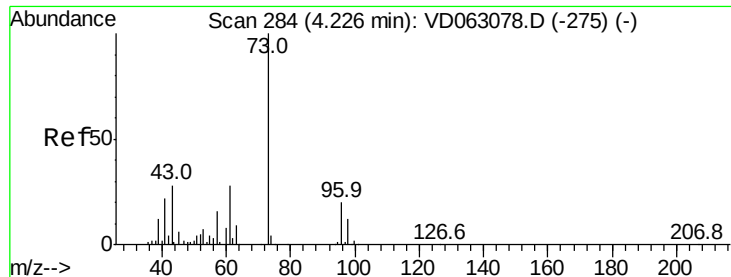
20000

10000

0

Time-->





#19

Methyl tert-butyl Ether

Concen: 23.315 ug/l

RT: 4.23 min Scan# 285

Delta R.T. 0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

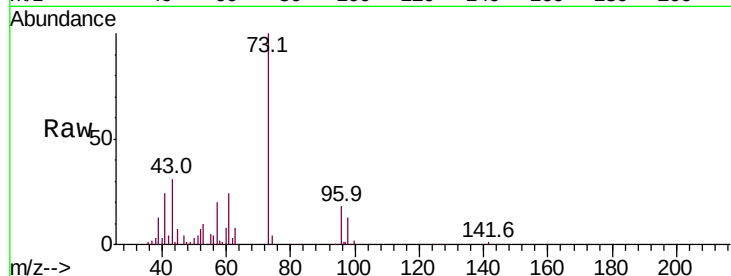
VD0719SBS01

Tot Ion: 73 Resp: 350843

Ion Ratio Lower Upper

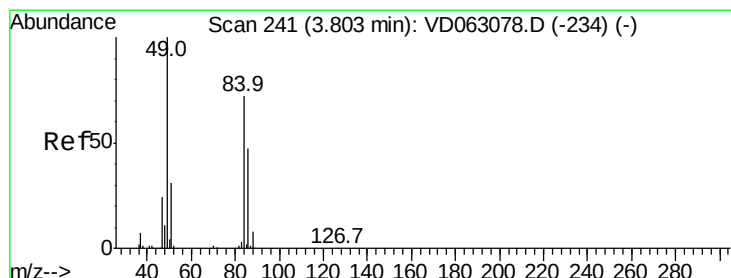
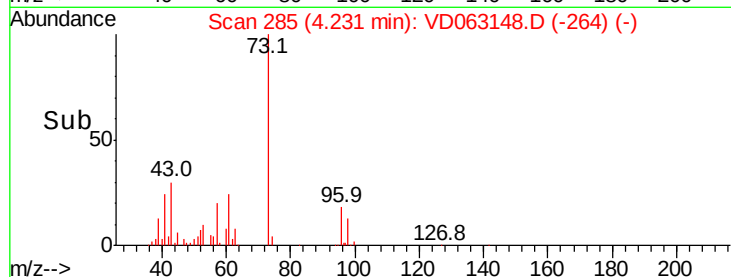
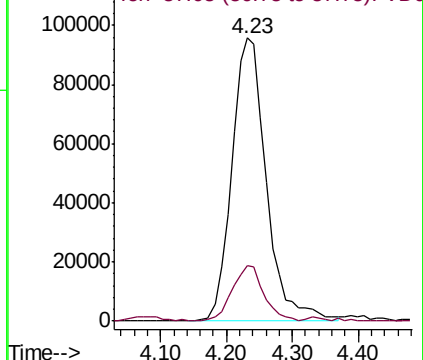
73 100

57 19.8 13.1 19.7#



Abundance Ion 73.00 (72.70 to 73.70): VDC

Ion 57.05 (56.75 to 57.75): VDC



#20

Methylene Chloride

Concen: 20.272 ug/l

RT: 3.80 min Scan# 241

Delta R.T. -0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Tgt Ion: 84 Resp: 155271

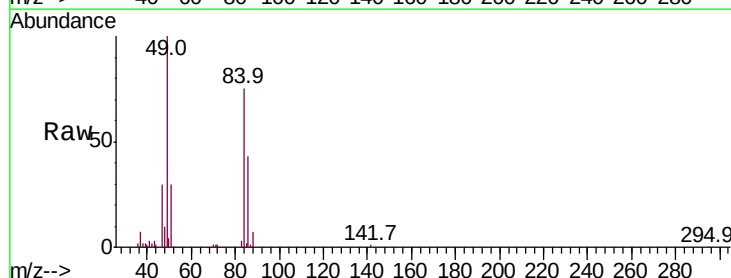
Ion Ratio Lower Upper

84 100

49 133.6 110.5 165.7

51 39.7 34.6 51.8

86 57.1 51.6 77.4

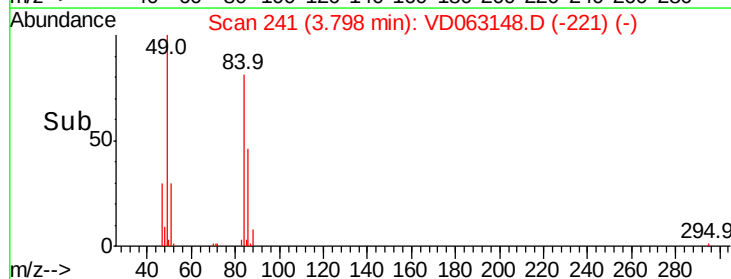
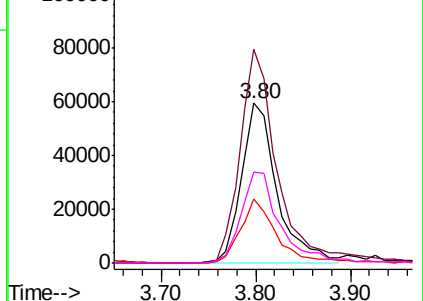


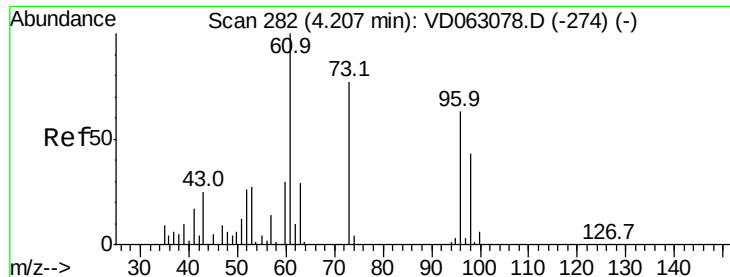
Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC





#21

trans-1,2-Dichloroethene

Concen: 23.078 ug/l

RT: 4.20 min Scan# 282

Delta R.T. -0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

VD0719SBS01

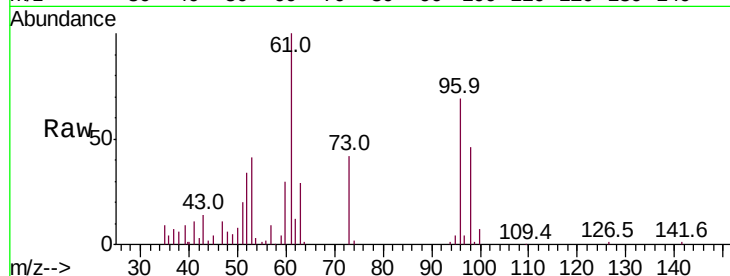
Tot Ion: 96 Resp: 152723

Ion Ratio Lower Upper

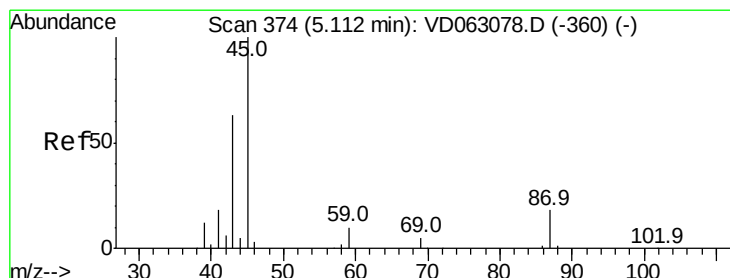
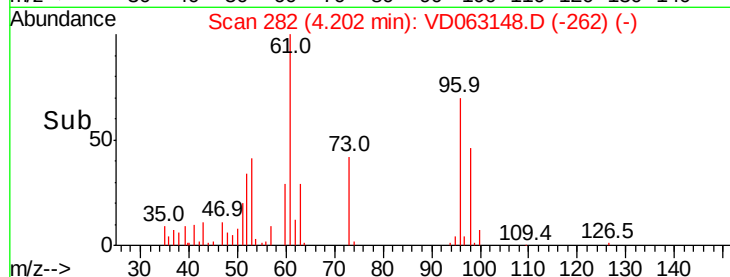
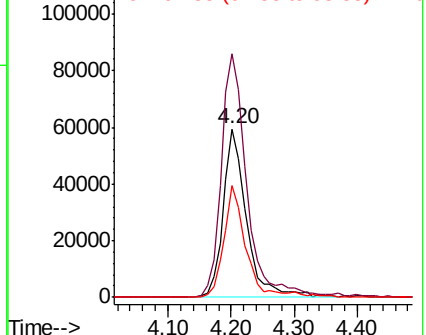
96 100

61 144.3 128.0 192.0

98 66.5 55.2 82.8



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



#22

Diisopropyl ether

Concen: 23.185 ug/l

RT: 5.12 min Scan# 375

Delta R.T. 0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Tgt Ion: 45 Resp: 472267

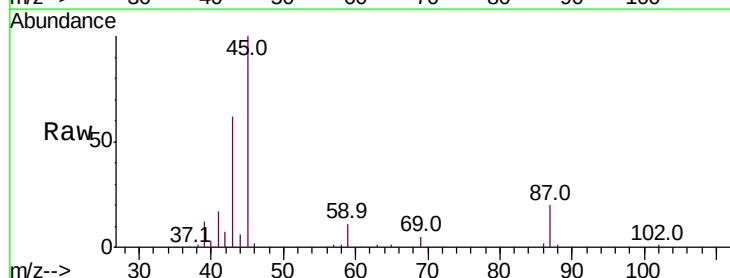
Ion Ratio Lower Upper

45 100

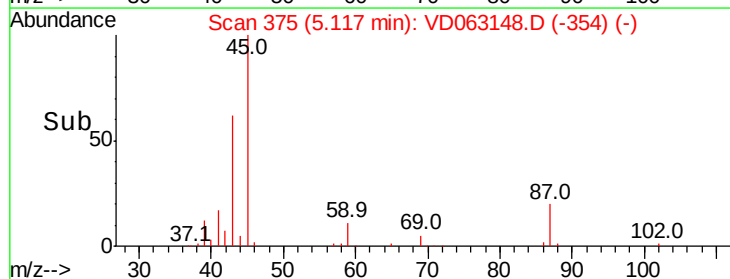
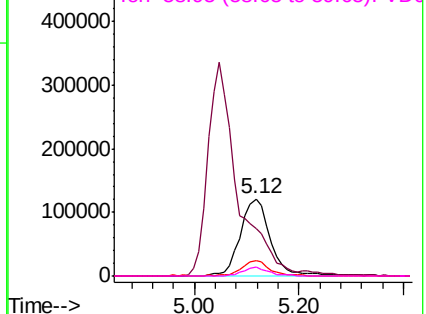
43 61.6 50.5 75.7

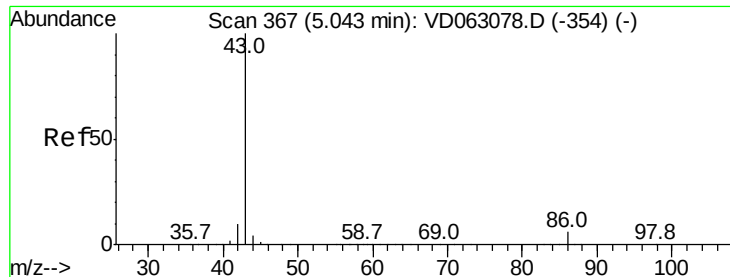
87 20.3 15.1 22.7

59 10.9 7.6 11.4



Abundance Ion 45.05 (44.75 to 45.75): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 87.00 (86.70 to 87.70): VDC
Ion 58.95 (58.65 to 59.65): VDC





#23

Vinyl Acetate

Concen: 112.002 ug/l

RT: 5.05 min Scan# 368

Delta R.T. 0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

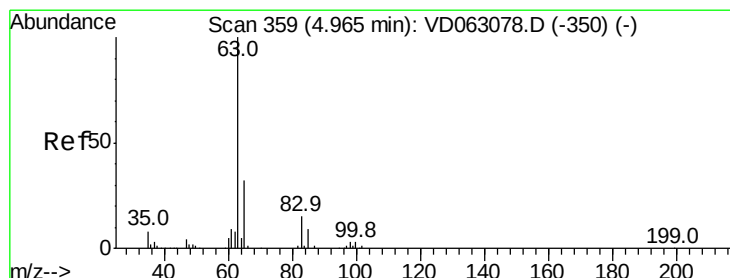
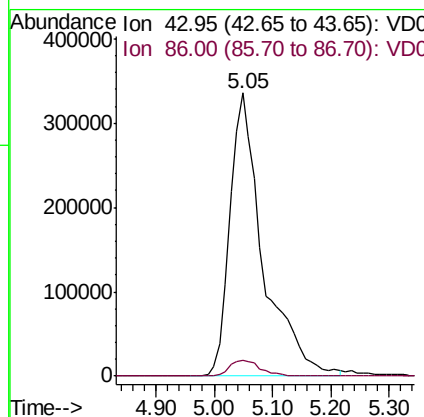
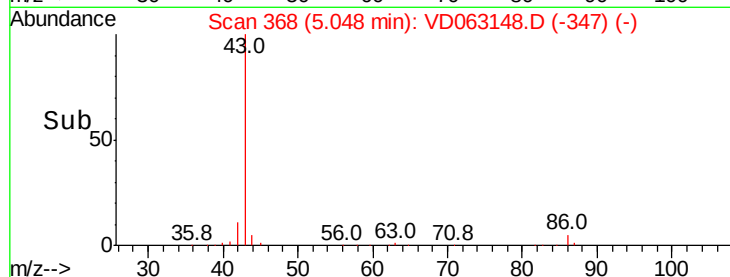
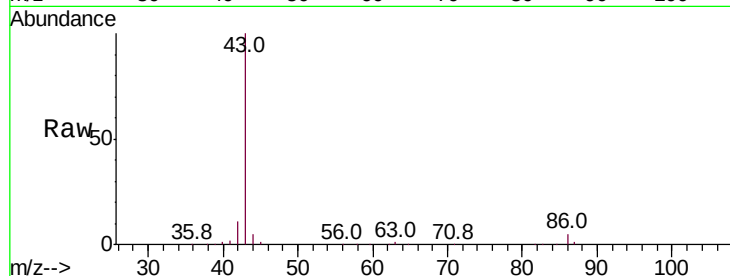
VD0719SBS01

Tot Ion: 43 Resp: 1331030

Ion Ratio Lower Upper

43 100

86 5.5 5.0 7.6



#24

1,1-Dichloroethane

Concen: 22.077 ug/l

RT: 4.97 min Scan# 360

Delta R.T. 0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

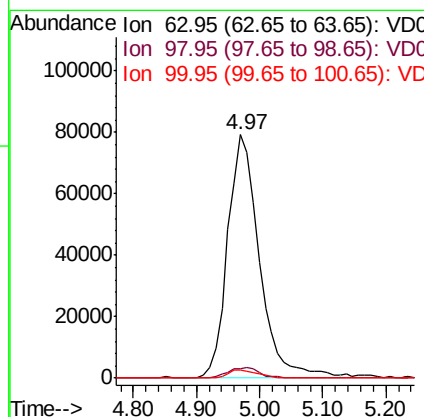
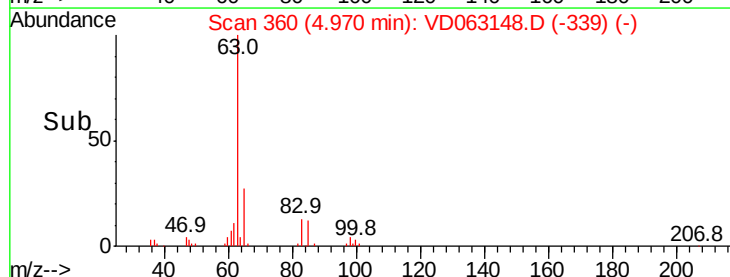
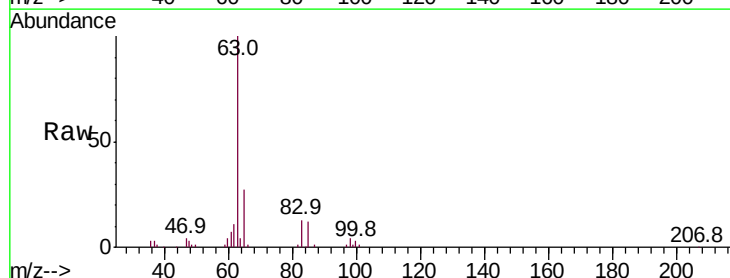
Tgt Ion: 63 Resp: 277008

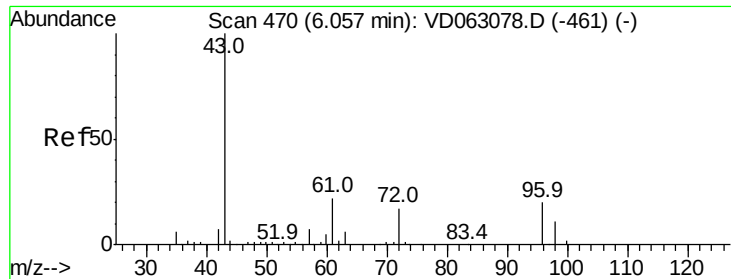
Ion Ratio Lower Upper

63 100

98 3.8 1.7 5.1

100 3.1 1.5 4.5





#25

2-Butanone

Concen: 115.298 ug/l

RT: 6.07 min Scan# 472

Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

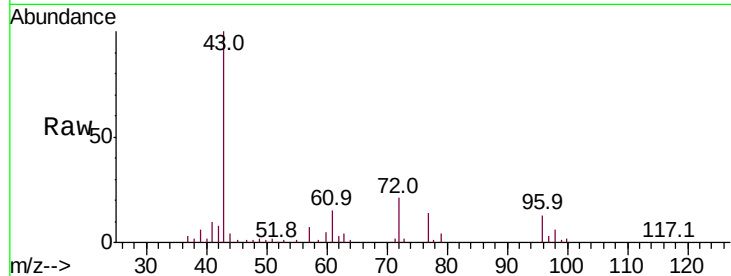
VD0719SBS01

Tot Ion: 43 Resp: 223215

Ion Ratio Lower Upper

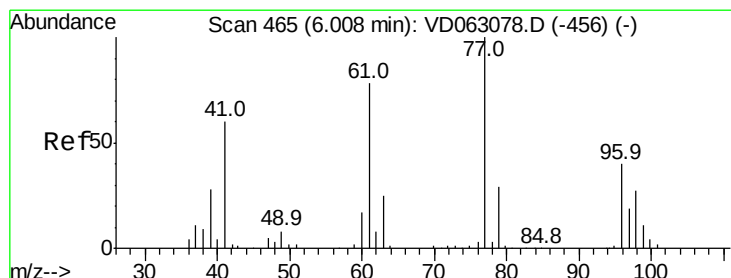
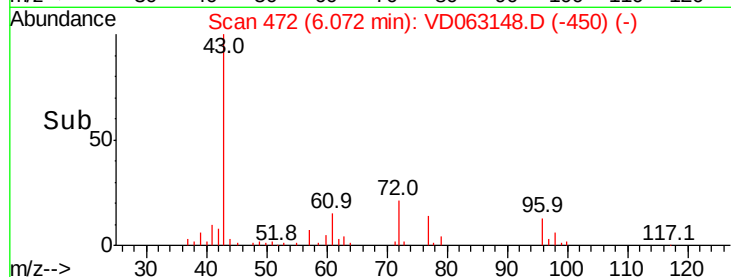
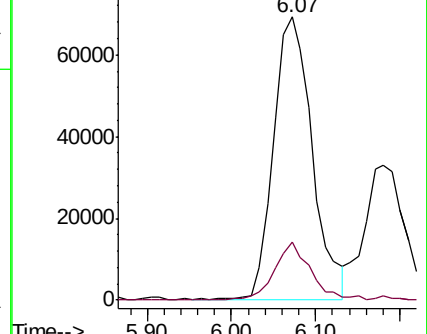
43 100

72 20.7 13.4 20.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 20.855 ug/l

RT: 6.01 min Scan# 466

Delta R.T. 0.00 min

Lab File: VD063148.D

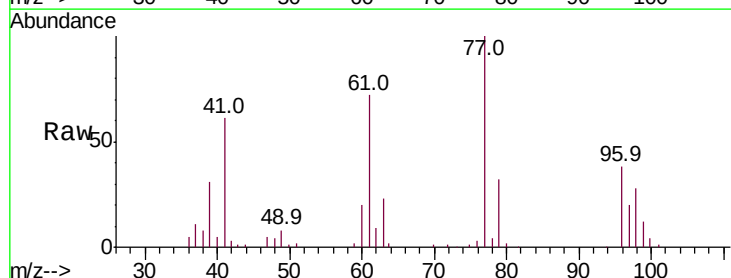
Acq: 19 Jul 2019 12:32

Tgt Ion: 77 Resp: 289609

Ion Ratio Lower Upper

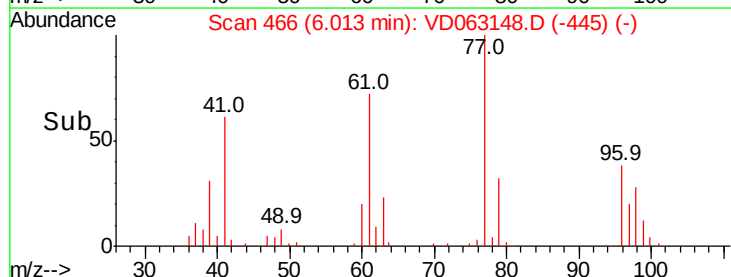
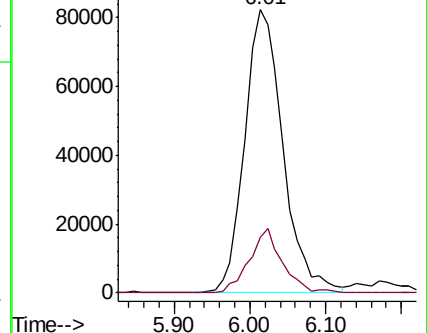
77 100

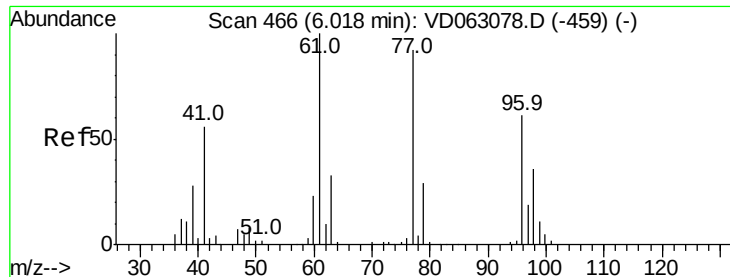
97 19.7 9.3 27.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



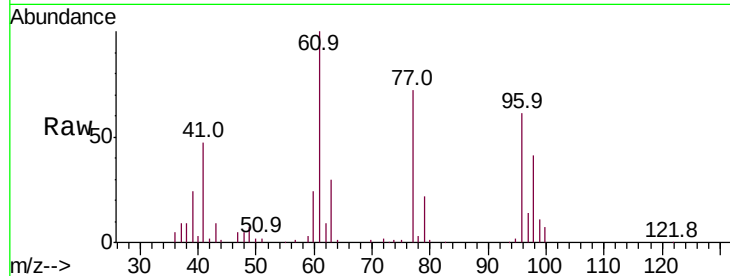


#27

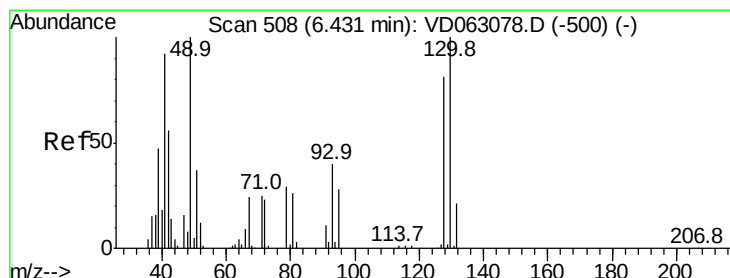
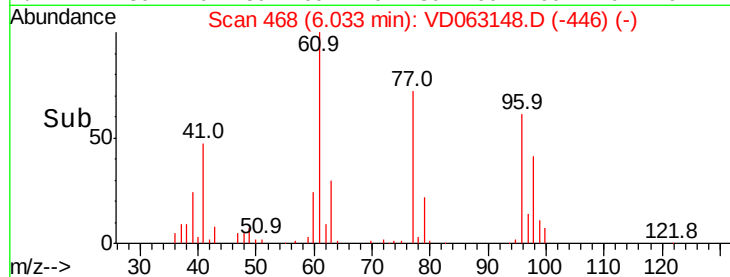
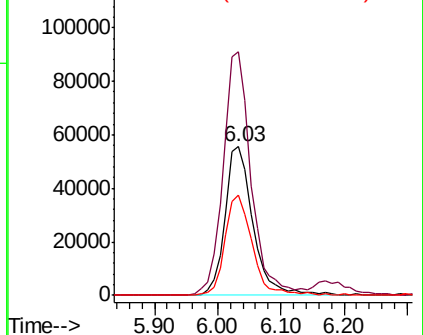
cis-1,2-Dichloroethene
Concen: 22.628 ug/l
RT: 6.03 min Scan# 468
Delta R.T. 0.01 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

Instrument :
MSVOA_D
ClientSampleId :
VD0719SBS01

Tot Ion: 96 Resp: 170340
Ion Ratio Lower Upper
96 100
61 164.1 0.0 329.6
98 67.6 0.0 118.4



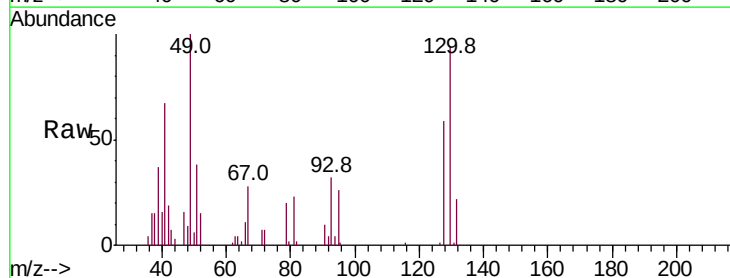
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



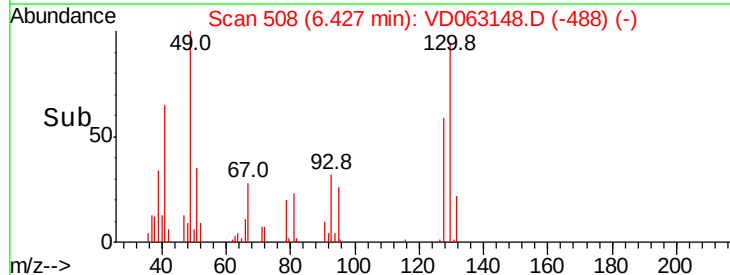
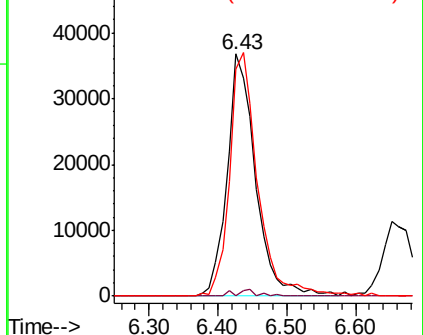
#28

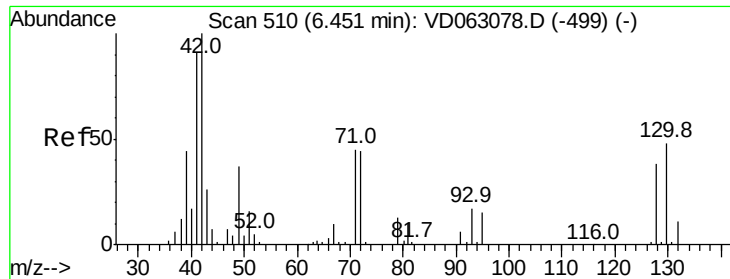
Bromochloromethane
Concen: 23.096 ug/l
RT: 6.43 min Scan# 508
Delta R.T. -0.00 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

Tgt Ion: 49 Resp: 105137
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.6
130 93.7 80.3 120.5



Abundance Ion 48.90 (48.60 to 49.60): VDC
Ion 128.80 (128.50 to 129.50): VDC
Ion 129.80 (129.50 to 130.50): VDC





#29

Tetrahydrofuran

Concen: 119.453 ug/l

RT: 6.46 min Scan# 511

Delta R.T. 0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

VD0719SBS01

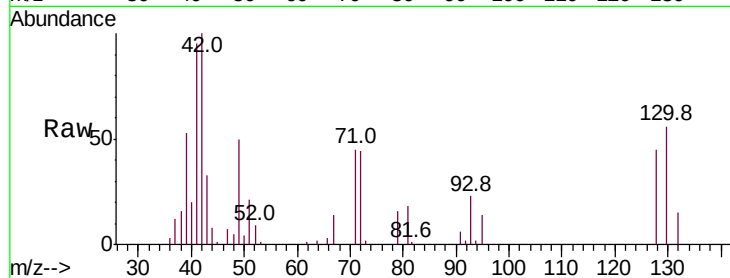
Tot Ion: 42 Resp: 104831

Ion Ratio Lower Upper

42 100

72 45.1 33.7 50.5

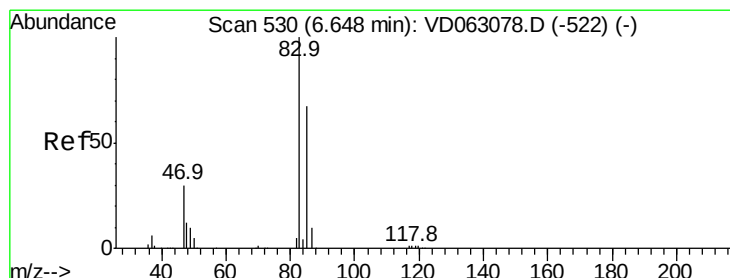
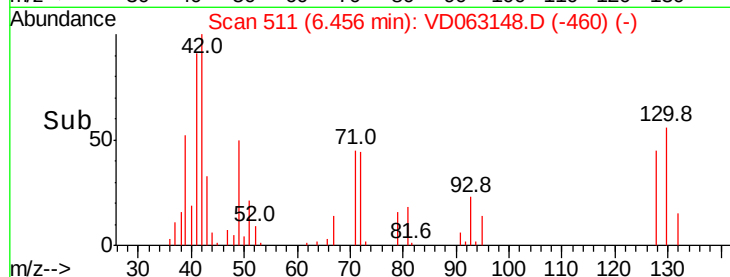
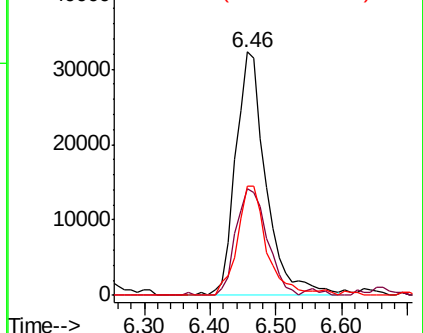
71 43.4 34.2 51.2



Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC



#30

Chloroform

Concen: 22.068 ug/l

RT: 6.66 min Scan# 532

Delta R.T. 0.01 min

Lab File: VD063148.D

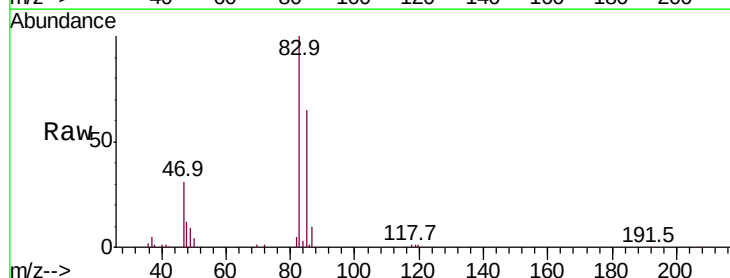
Acq: 19 Jul 2019 12:32

Tgt Ion: 83 Resp: 341024

Ion Ratio Lower Upper

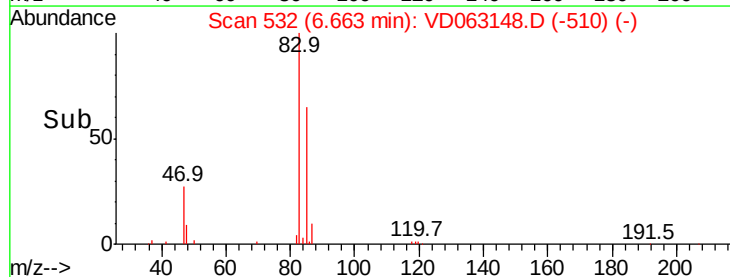
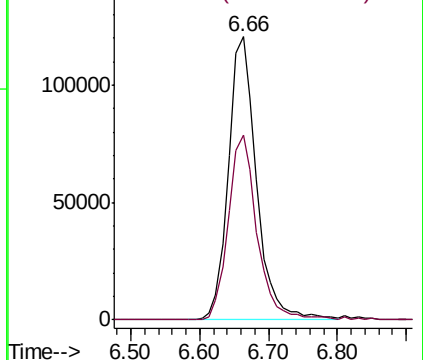
83 100

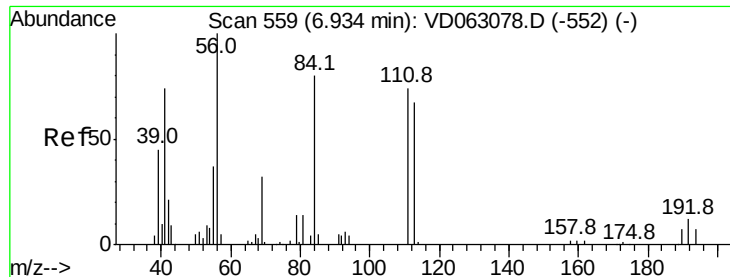
85 65.3 53.8 80.8



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

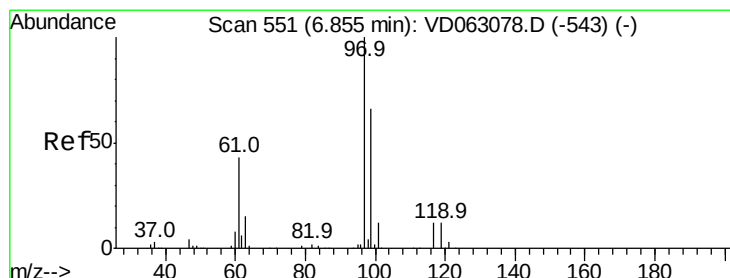
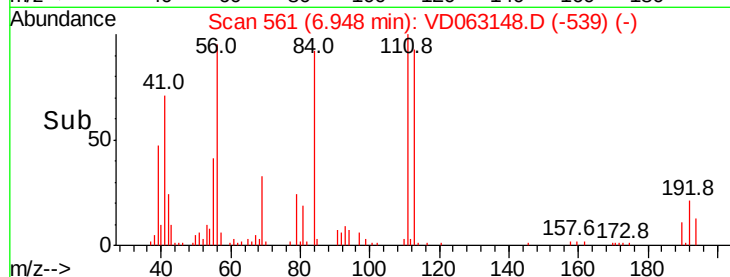
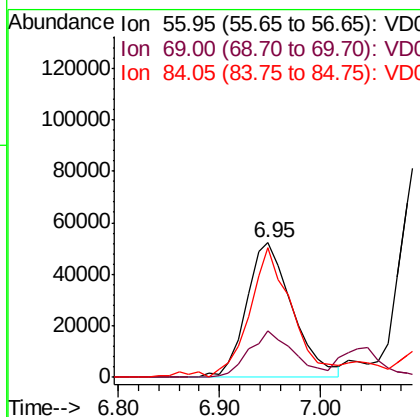
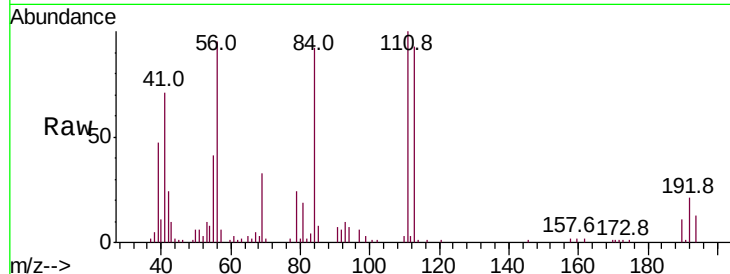




#31
Cyclohexane
Concen: 20.653 ug/l
RT: 6.95 min Scan# 561
Delta R.T. 0.01 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

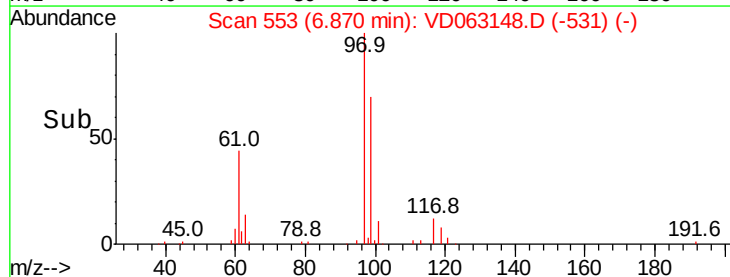
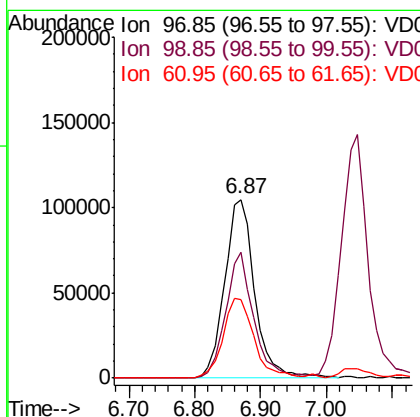
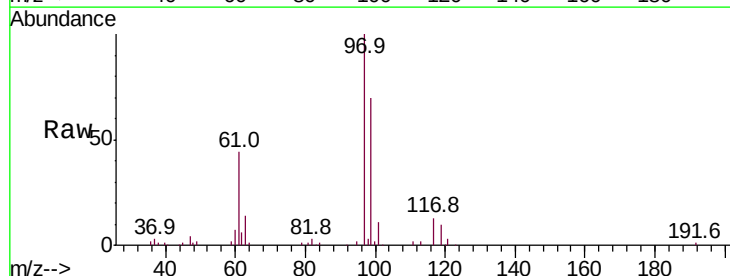
Instrument :
MSVOA_D
ClientSampleId :
VD0719SBS01

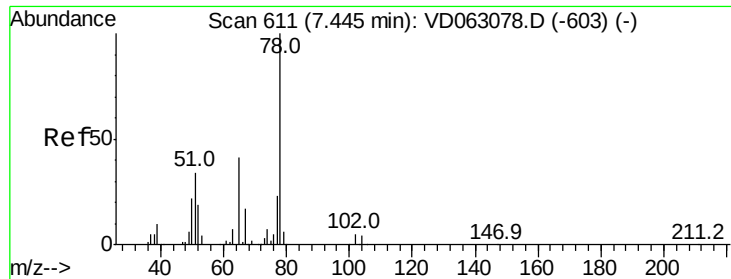
Tot Ion: 56 Resp: 165036
Ion Ratio Lower Upper
56 100
69 34.7 25.3 37.9
84 96.6 64.2 96.4#



#32
1,1,1-Trichloroethane
Concen: 22.006 ug/l
RT: 6.87 min Scan# 553
Delta R.T. 0.01 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

Tgt Ion: 97 Resp: 335330
Ion Ratio Lower Upper
97 100
99 70.2 52.9 79.3
61 44.1 34.4 51.6





#33

1,2-Dichloroethane-d4

Concen: 48.240 ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

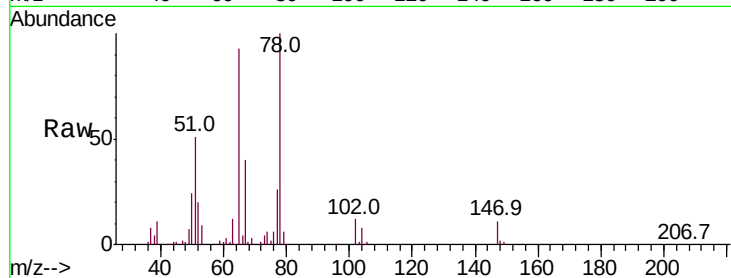
VD0719SBS01

Tot Ion: 65 Resp: 404922

Ion Ratio Lower Upper

65 100

67 42.8 0.0 86.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

150000

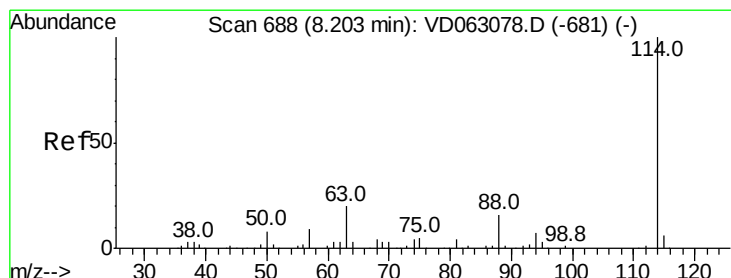
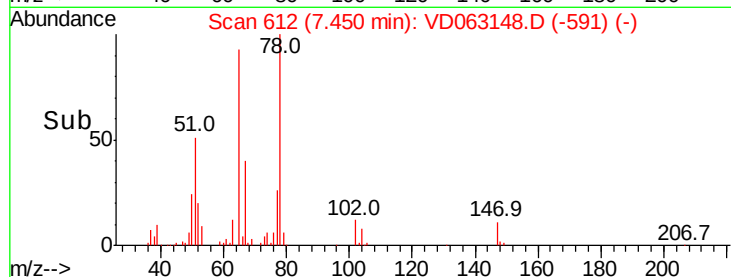
100000

50000

0

7.40 7.50

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 690

Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

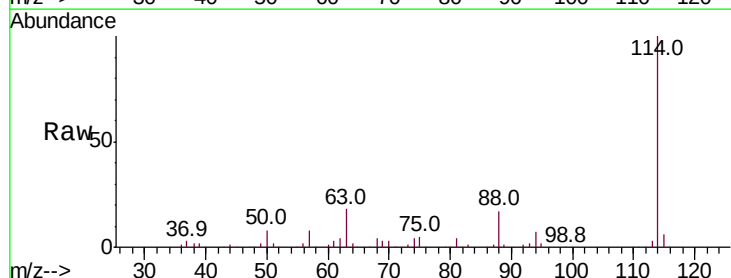
Tgt Ion: 114 Resp: 979336

Ion Ratio Lower Upper

114 100

63 18.3 0.0 40.6

88 17.1 0.0 32.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

500000

400000

300000

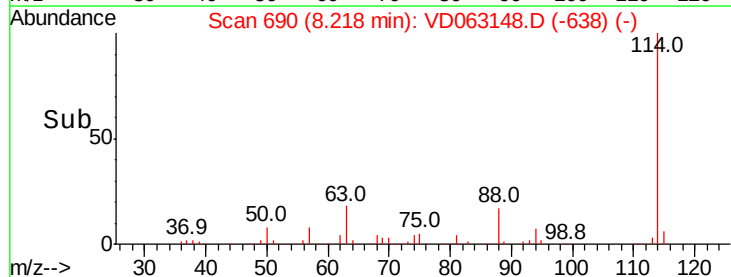
200000

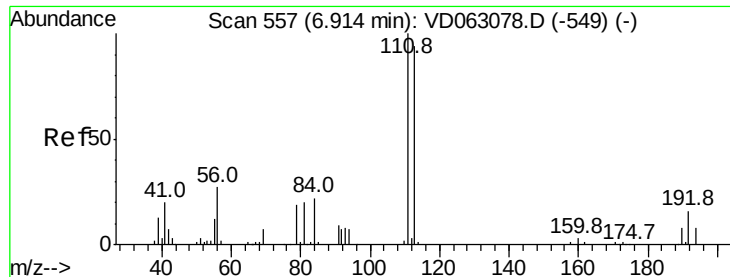
100000

0

8.10 8.20 8.30 8.40

Time-->





#35

Dibromofluoromethane

Concen: 44.663 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

VD0719SBS01

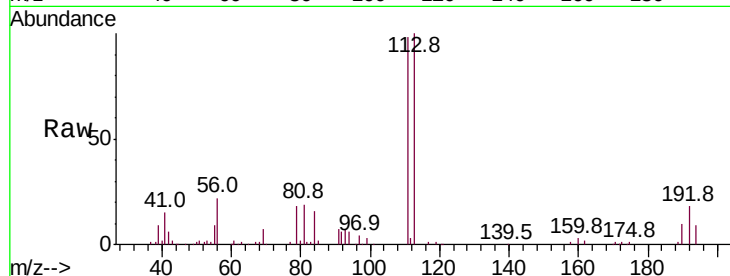
Tot Ion:113 Resp: 435664

Ion Ratio Lower Upper

113 100

111 98.5 84.8 127.2

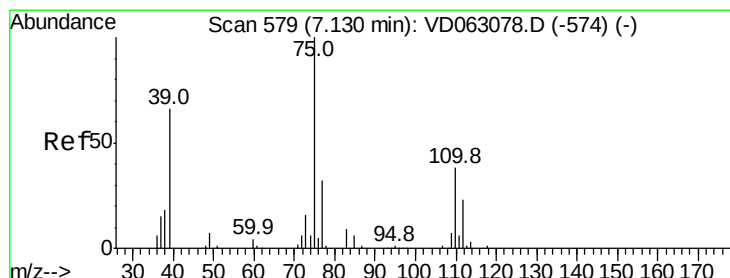
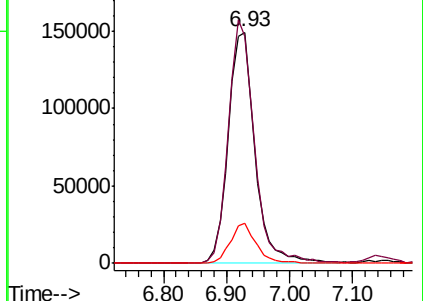
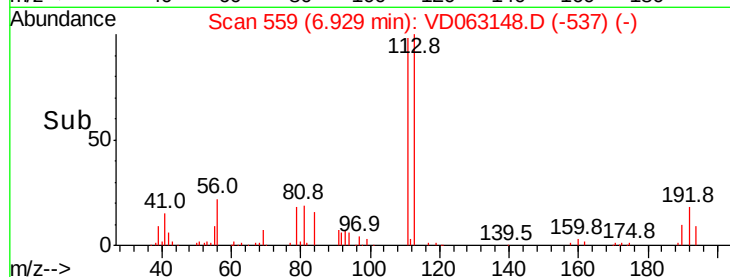
192 17.6 13.4 20.0



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: 19.318 ug/l

RT: 7.15 min Scan# 581

Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

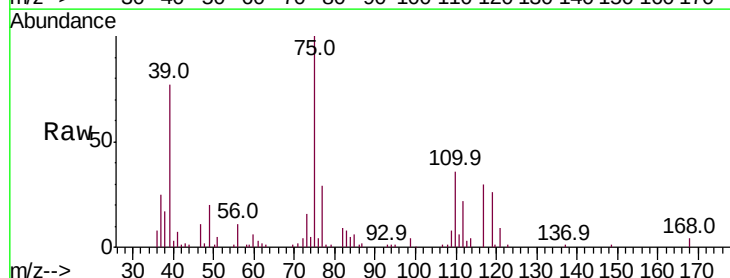
Tgt Ion: 75 Resp: 212779

Ion Ratio Lower Upper

75 100

110 36.3 18.9 56.5

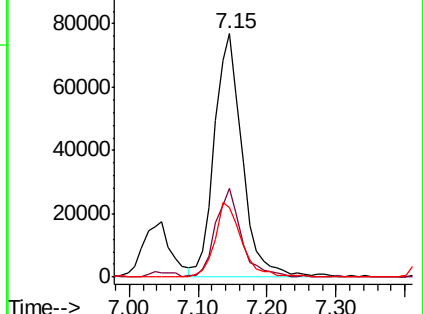
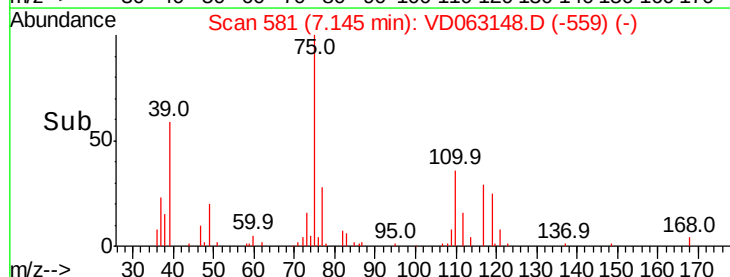
77 28.7 25.2 37.8

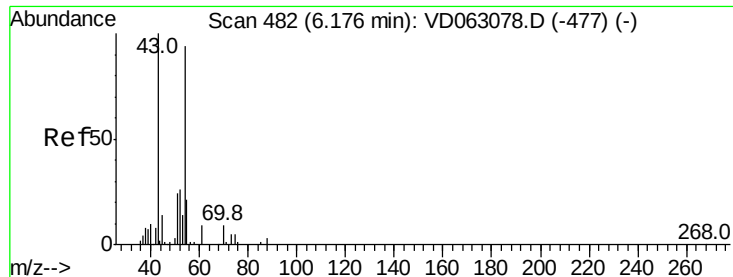


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#37

Ethyl Acetate

Concen: 22.644 ug/l

RT: 6.18 min Scan# 483

Delta R.T. 0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

VD0719SBS01

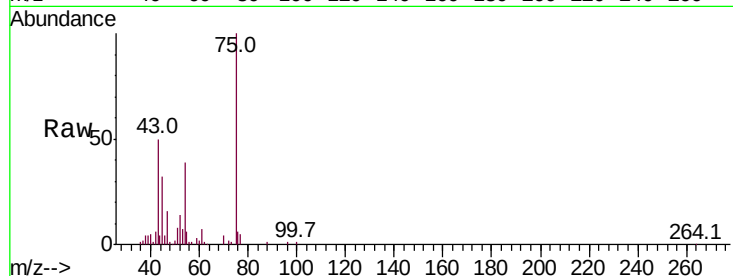
Tot Ion: 43 Resp: 106743

Ion Ratio Lower Upper

43 100

61 13.4 10.6 16.0

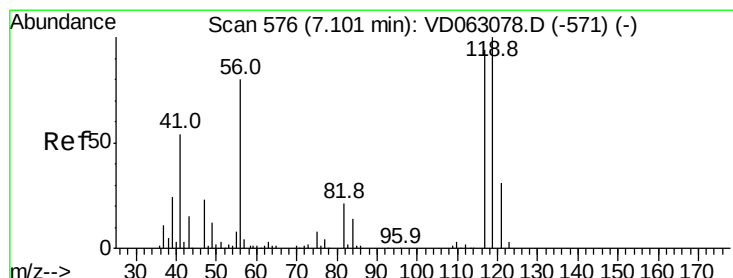
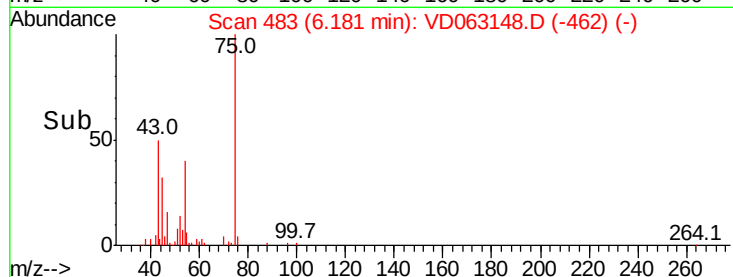
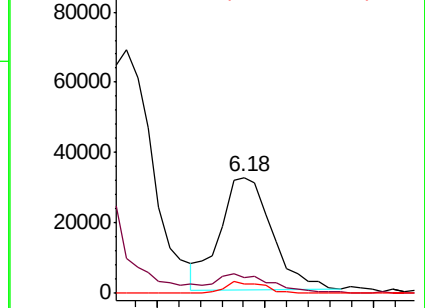
70 8.6 6.6 9.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC



#38

Carbon Tetrachloride

Concen: 18.510 ug/l

RT: 7.11 min Scan# 577

Delta R.T. 0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

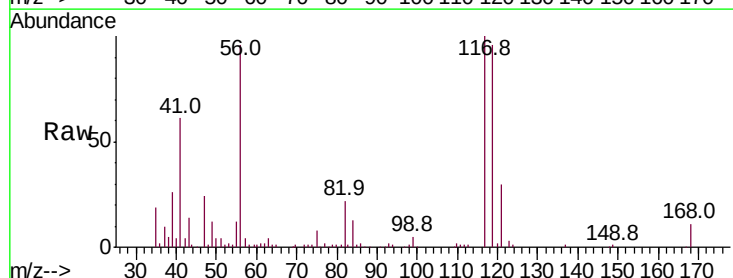
Tgt Ion: 117 Resp: 309792

Ion Ratio Lower Upper

117 100

119 95.8 80.0 120.0

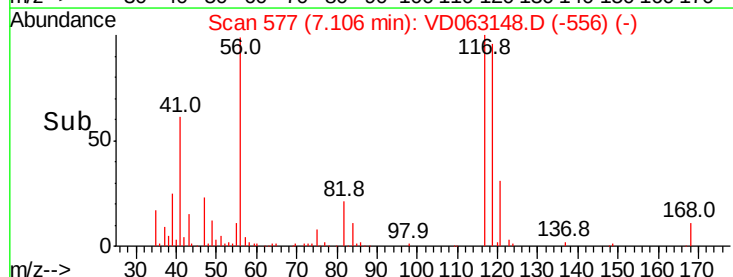
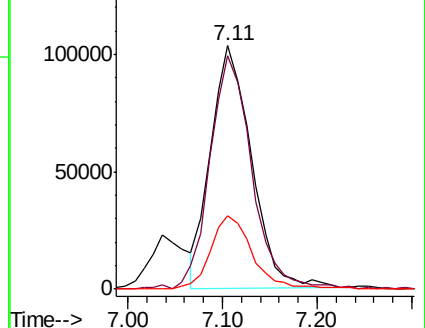
121 30.0 25.0 37.4

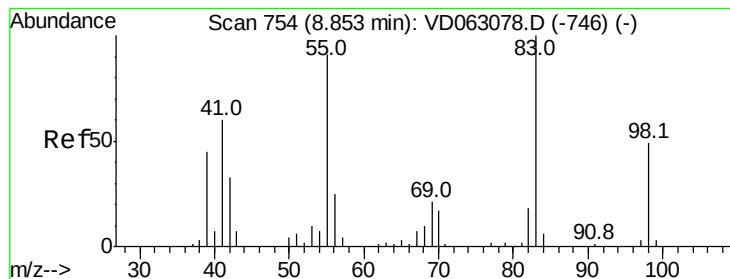


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V





#39

Methylvlcyclohexane

Concen: 18.107 ug/l

RT: 8.87 min Scan# 756

Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

VD0719SBS01

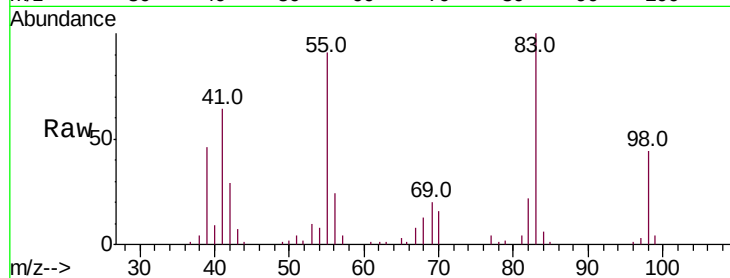
Tot Ion: 83 Resp: 172426

Ion Ratio Lower Upper

83 100

55 90.6 73.0 109.4

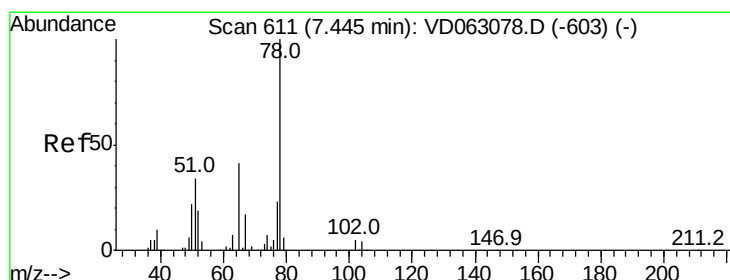
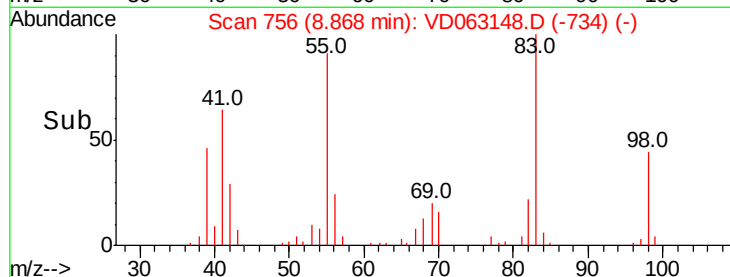
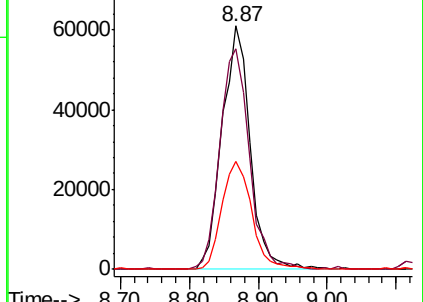
98 44.3 39.4 59.0



Abundance Ion 83.05 (82.75 to 83.75): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC



#40

Benzene

Concen: 20.542 ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.00 min

Lab File: VD063148.D

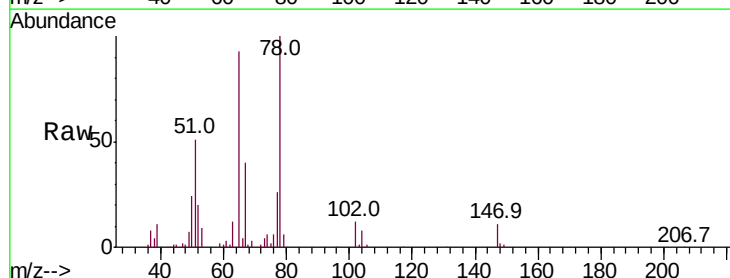
Acq: 19 Jul 2019 12:32

Tgt Ion: 78 Resp: 473888

Ion Ratio Lower Upper

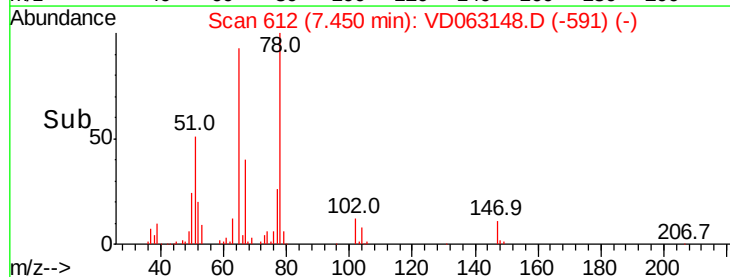
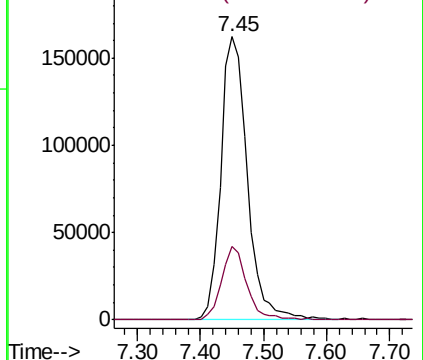
78 100

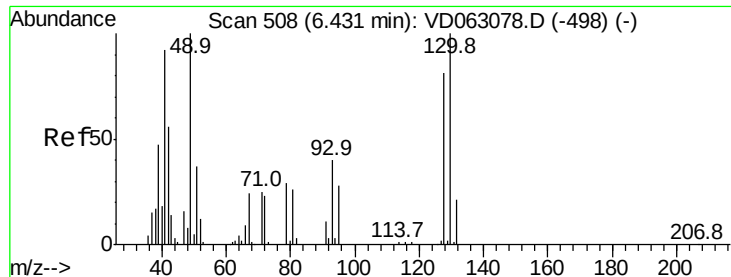
77 26.0 18.1 27.1



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC

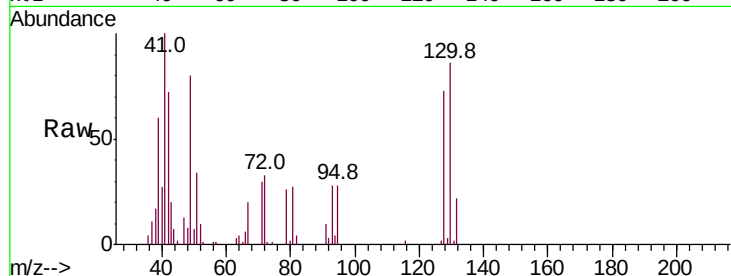




#41
Methacrylonitrile
Concen: 22.114 ug/l
RT: 6.45 min Scan# 510
Delta R.T. 0.01 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

Instrument :
MSVOA_D
ClientSampleId :
VD0719SBS01

Tot Ion	Ratio	Lower	Upper
41	100		
39	59.8	41.0	61.6
67	20.0	21.3	31.9#
52	10.3	10.5	15.7#



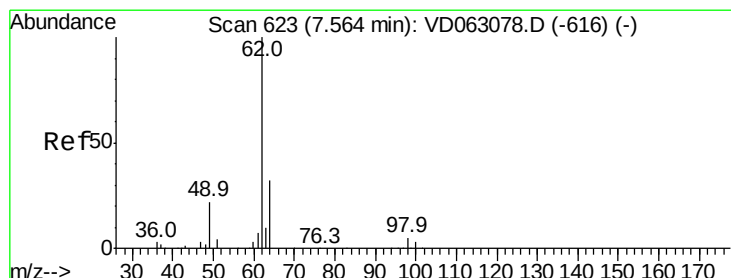
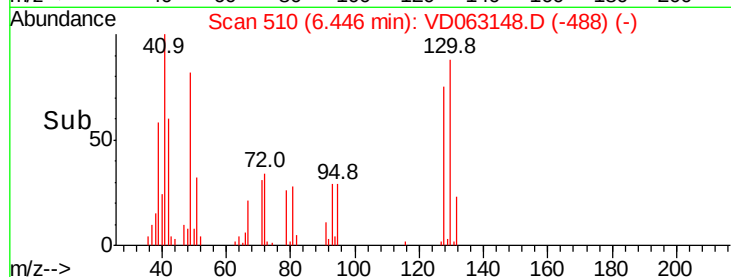
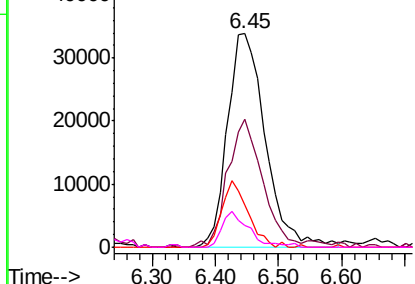
Abundance

Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

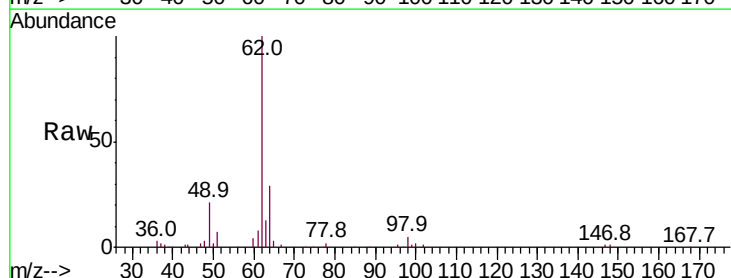
Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#42
1,2-Dichloroethane
Concen: 19.912 ug/l
RT: 7.58 min Scan# 625
Delta R.T. 0.01 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

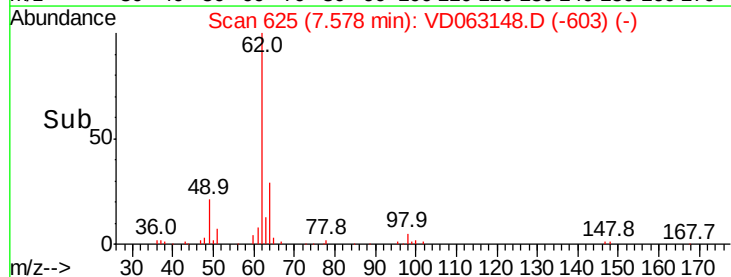
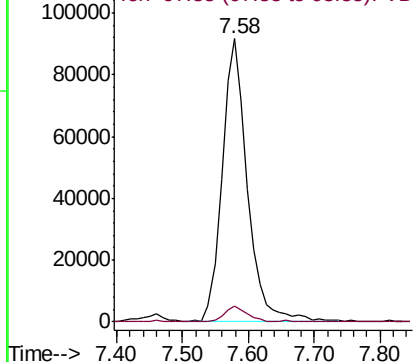
Tgt Ion	Ratio	Lower	Upper
62	100		
98	5.5	0.0	9.6

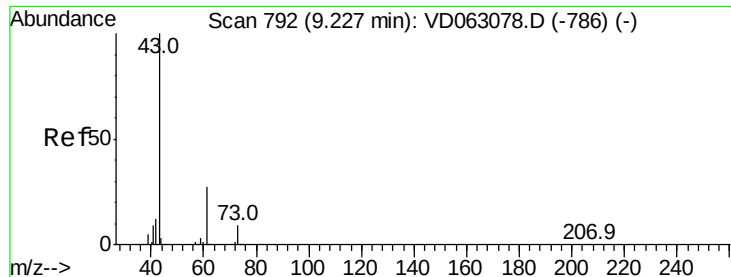


Abundance

Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#43

Isopropyl Acetate

Concen: 22.814 ug/l

RT: 9.24 min Scan# 794

Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

VD0719SBS01

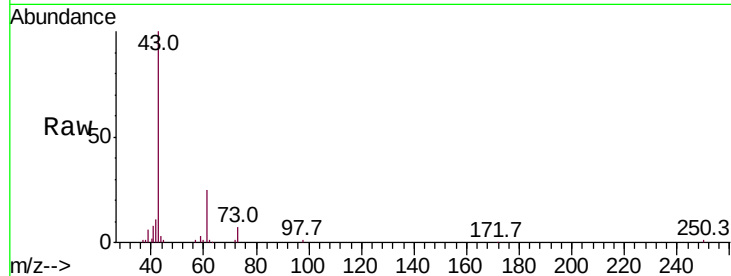
Tot Ion: 43 Resp: 154144

Ion Ratio Lower Upper

43 100

61 24.7 21.7 32.5

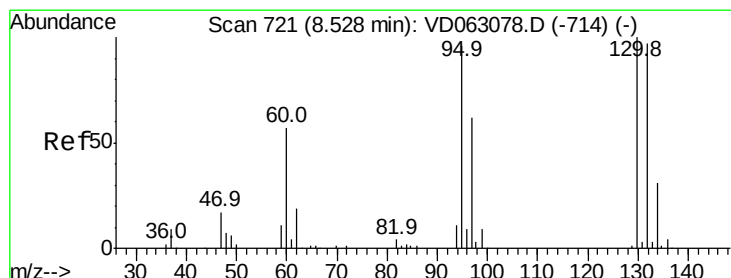
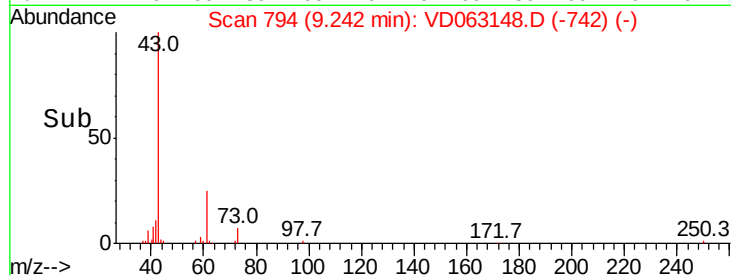
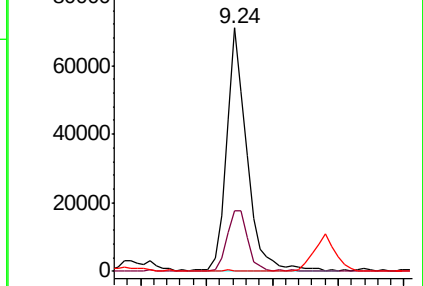
87 0.0 0.2 0.4#



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: 21.263 ug/l

RT: 8.54 min Scan# 723

Delta R.T. 0.01 min

Lab File: VD063148.D

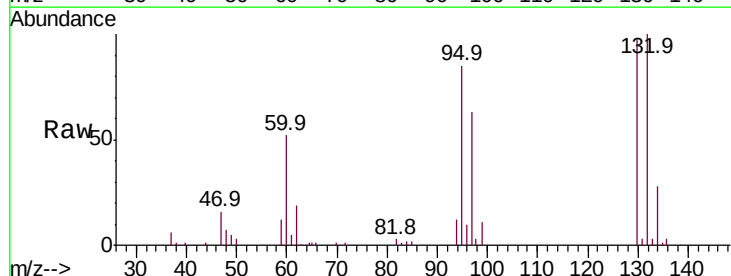
Acq: 19 Jul 2019 12:32

Tgt Ion:130 Resp: 189561

Ion Ratio Lower Upper

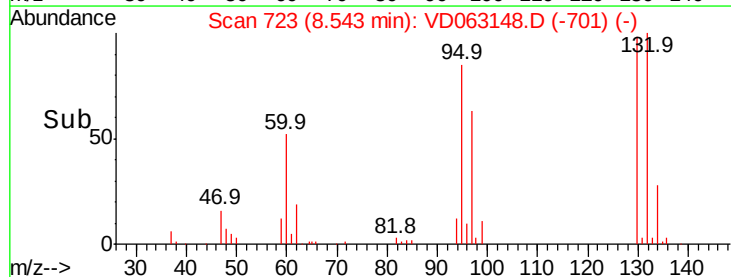
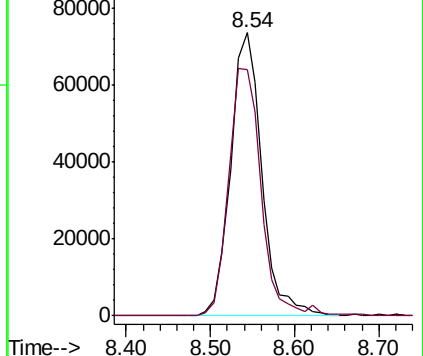
130 100

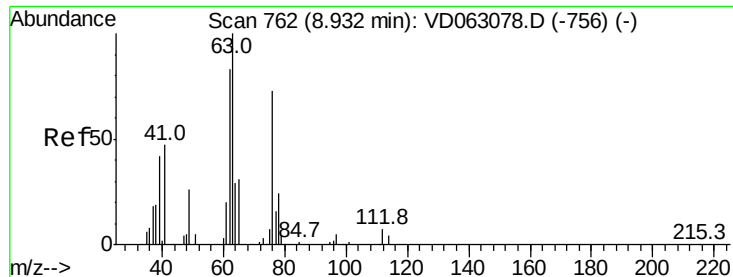
95 86.9 0.0 191.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 20.011 ug/l

RT: 8.95 min Scan# 764

Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

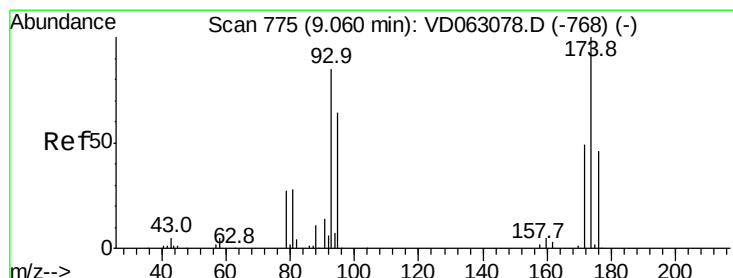
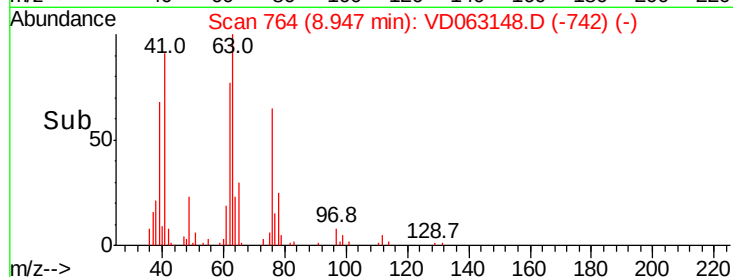
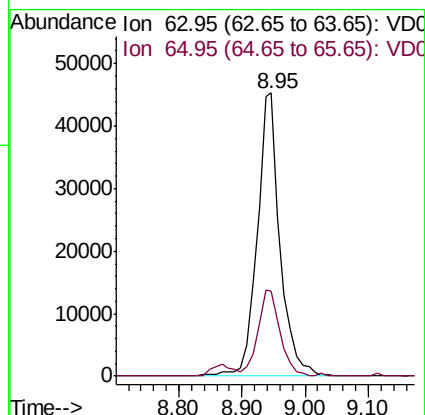
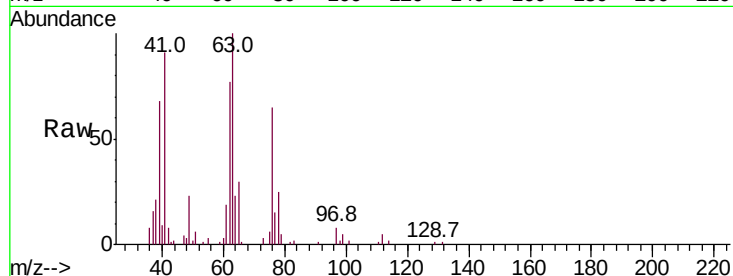
VD0719SBS01

Tot Ion: 63 Resp: 115094

Ion Ratio Lower Upper

63 100

65 29.9 26.3 39.5



#46

Dibromomethane

Concen: 20.137 ug/l

RT: 9.06 min Scan# 776

Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

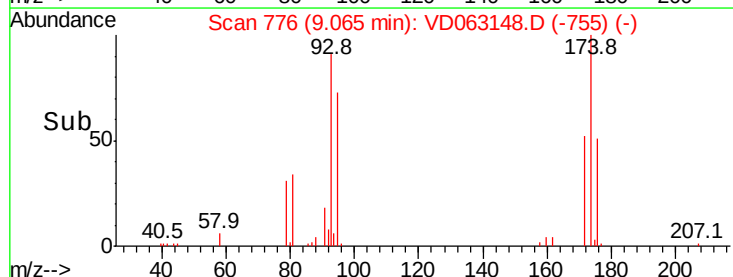
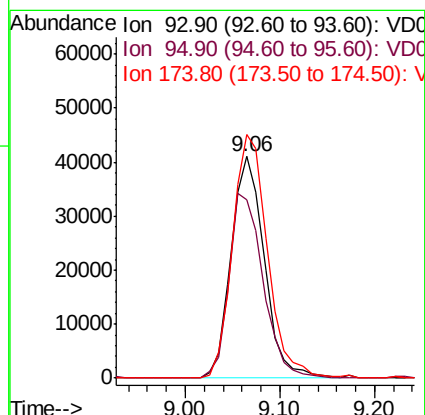
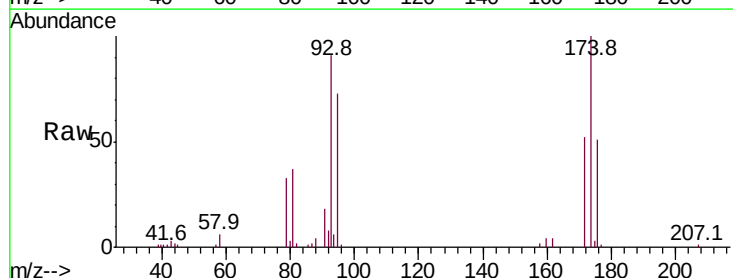
Tgt Ion: 93 Resp: 99524

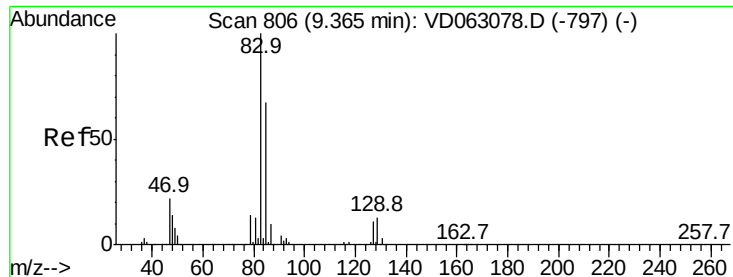
Ion Ratio Lower Upper

93 100

95 80.5 59.7 89.5

174 110.0 93.9 140.9





#47

Bromodichloromethane

Concen: 20.157 ug/l

RT: 9.38 min Scan# 808

Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

VD0719SBS01

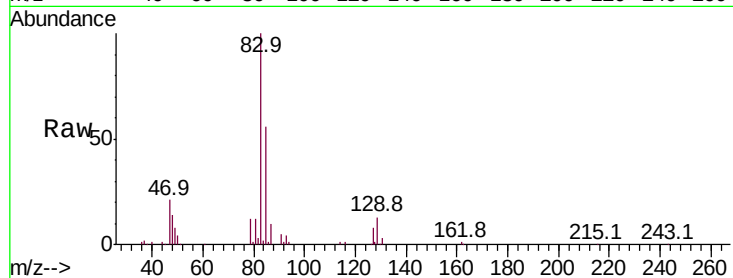
Tot Ion: 83 Resp: 259970

Ion Ratio Lower Upper

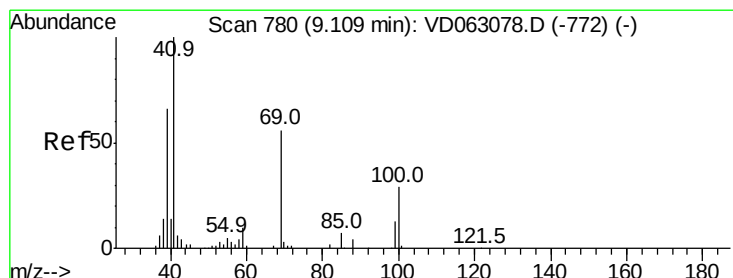
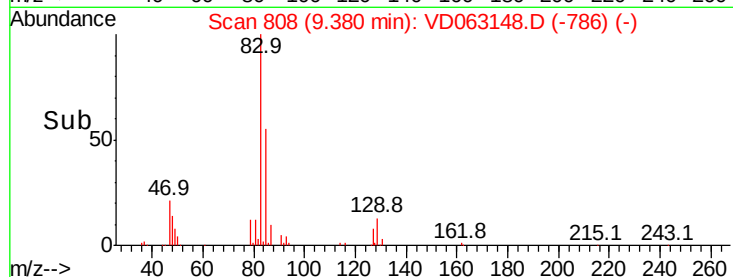
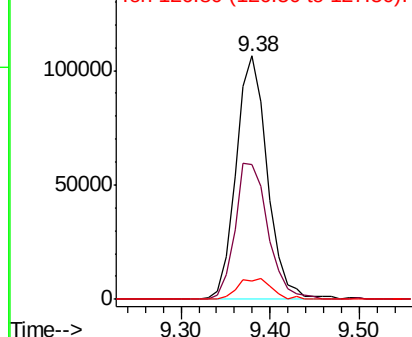
83 100

85 55.6 53.7 80.5

127 7.7 9.0 13.6#



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



#48

Methyl methacrylate

Concen: 22.146 ug/l

RT: 9.12 min Scan# 782

Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

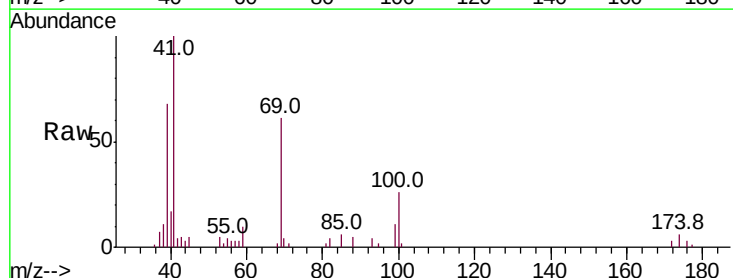
Tgt Ion: 41 Resp: 98262

Ion Ratio Lower Upper

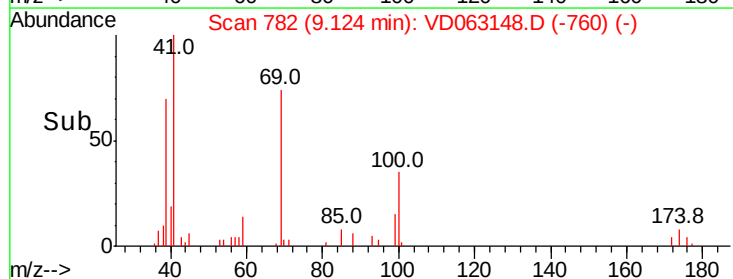
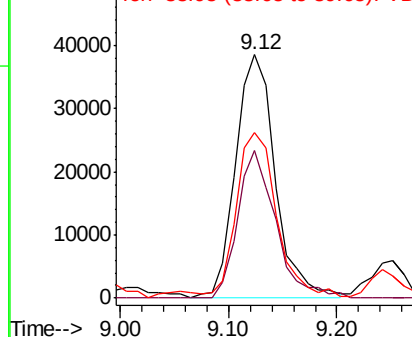
41 100

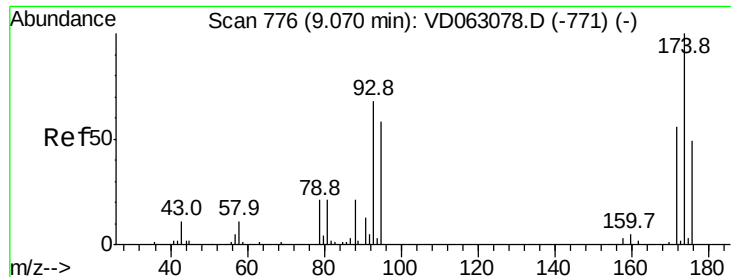
69 60.6 44.3 66.5

39 67.9 52.6 78.8



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

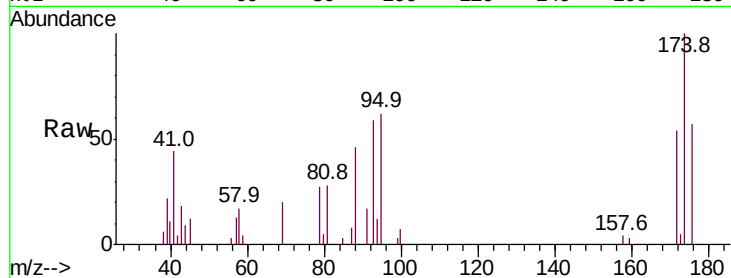




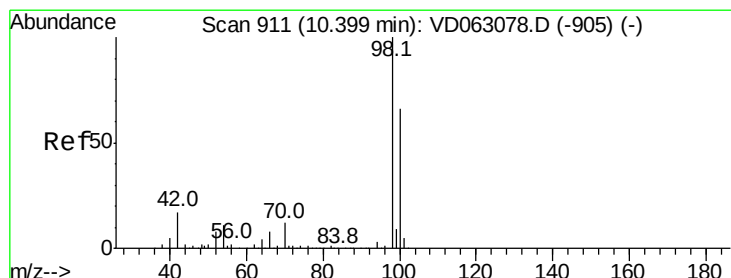
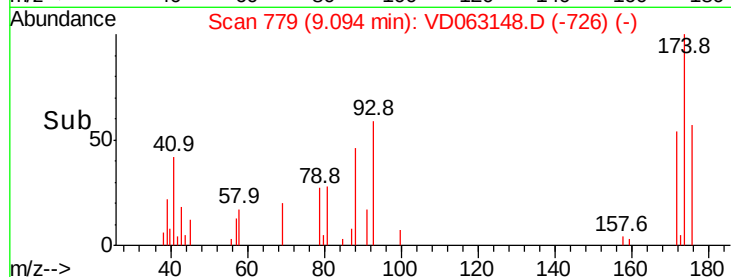
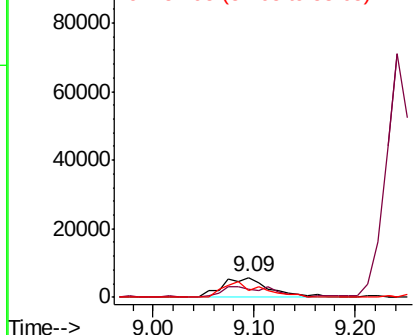
#49
 1,4-Dioxane
 Concen: 476.373 ug/l
 RT: 9.09 min Scan# 779
 Delta R.T. 0.02 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0719SBS01

Tot Ion: 88 Resp: 18229
 Ion Ratio Lower Upper
 88 100
 43 40.0 40.2 60.4#
 58 36.9 41.6 62.4#

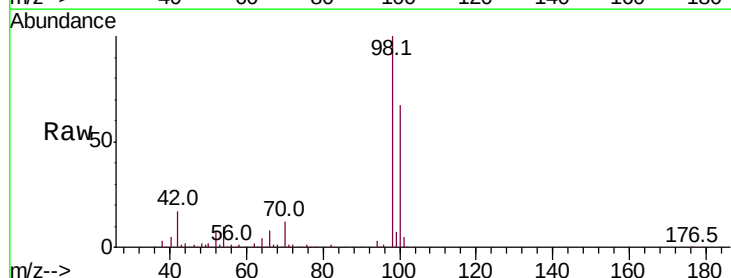


Abundance Ion 88.00 (87.70 to 88.70): VDC
 Ion 43.05 (42.75 to 43.75): VDC
 Ion 57.95 (57.65 to 58.65): VDC

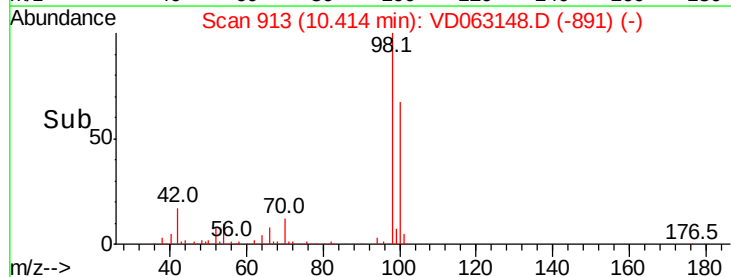
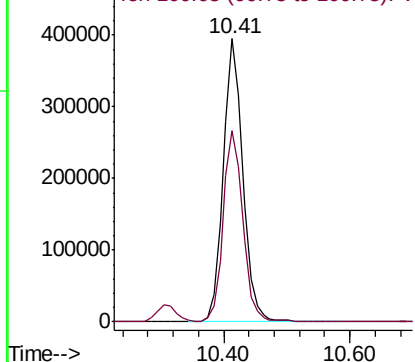


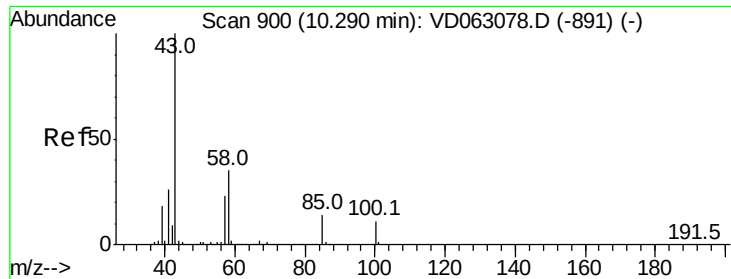
#50
 Toluene-d8
 Concen: 40.838 ug/l
 RT: 10.41 min Scan# 913
 Delta R.T. 0.01 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

Tgt Ion: 98 Resp: 855665
 Ion Ratio Lower Upper
 98 100
 100 67.5 53.5 80.3



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

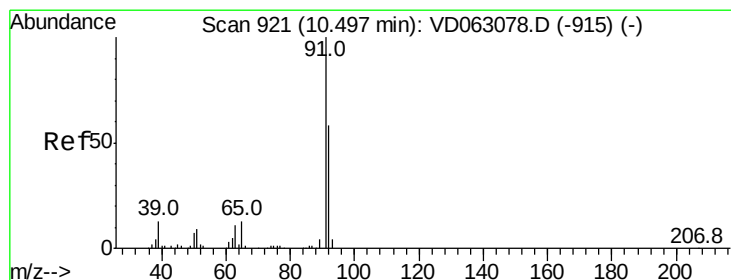
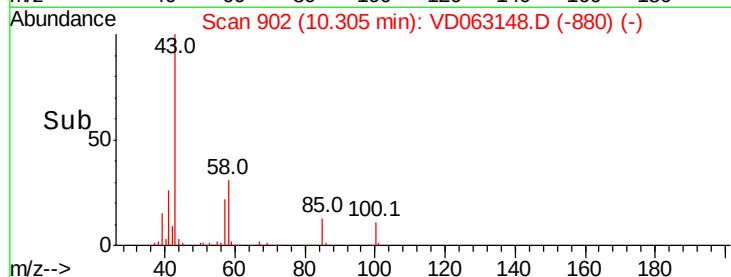
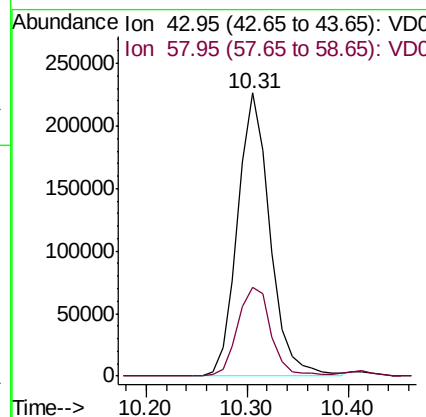
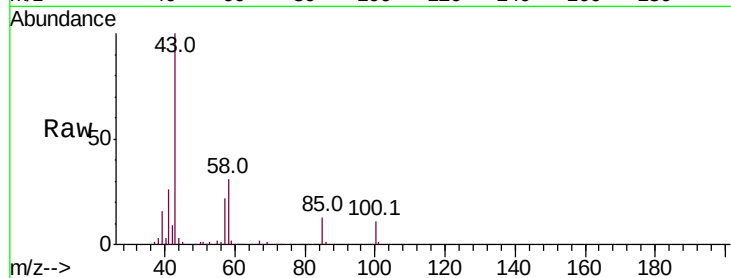




#51
4-Methyl-2-Pentanone
Concen: 113.093 ug/l
RT: 10.31 min Scan# 902
Delta R.T. 0.01 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

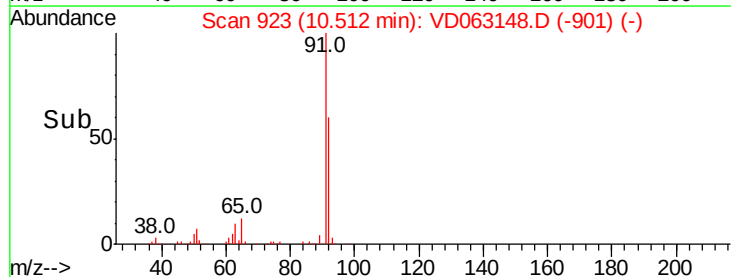
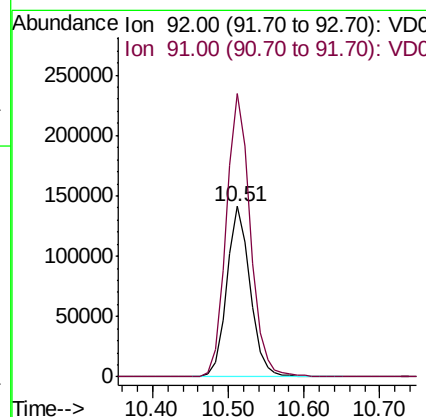
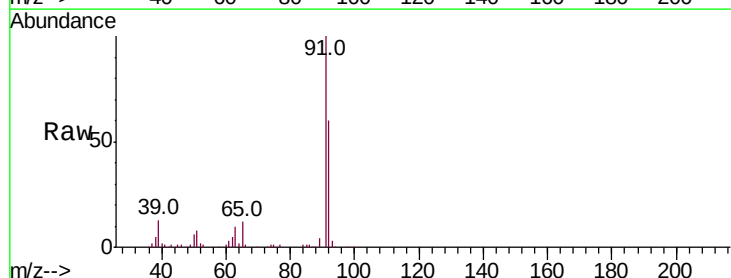
Instrument :
MSVOA_D
ClientSampleId :
VD0719SBS01

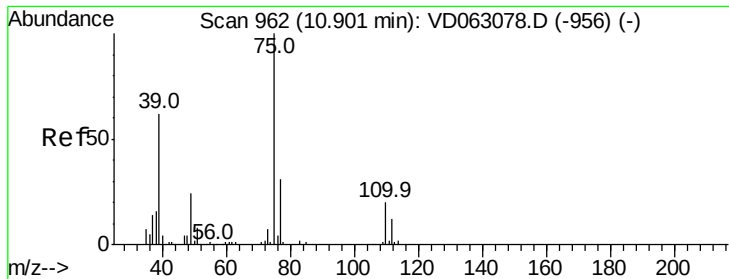
Tot Ion: 43 Resp: 506813
Ion Ratio Lower Upper
43 100
58 31.4 27.8 41.6



#52
Toluene
Concen: 19.639 ug/l
RT: 10.51 min Scan# 923
Delta R.T. 0.01 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

Tgt Ion: 92 Resp: 302537
Ion Ratio Lower Upper
92 100
91 166.2 137.9 206.9

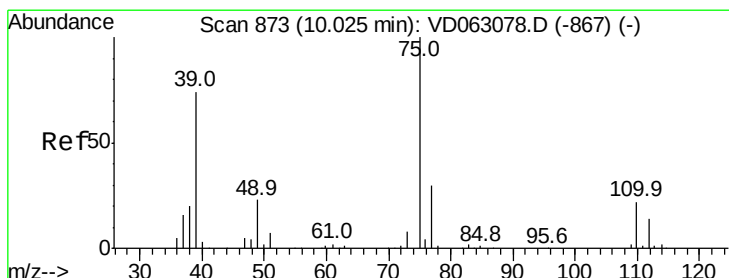
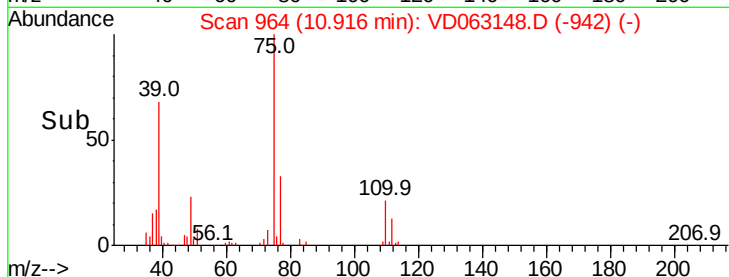
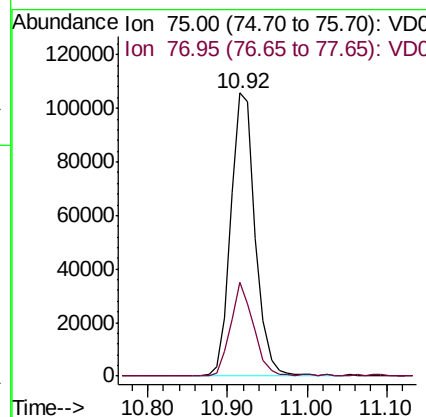
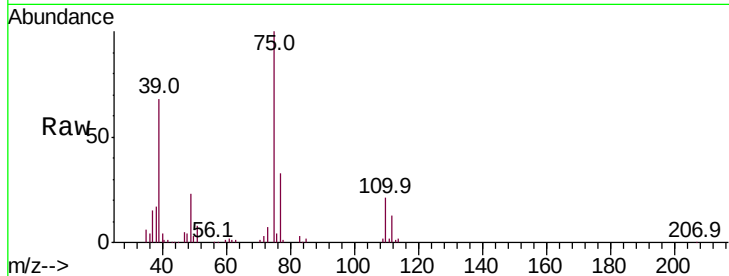




#53
 t-1,3-Dichloropropene
 Concen: 20.624 ug/l
 RT: 10.92 min Scan# 964
 Delta R.T. 0.01 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

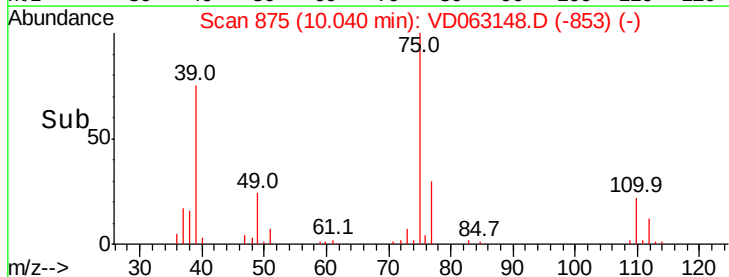
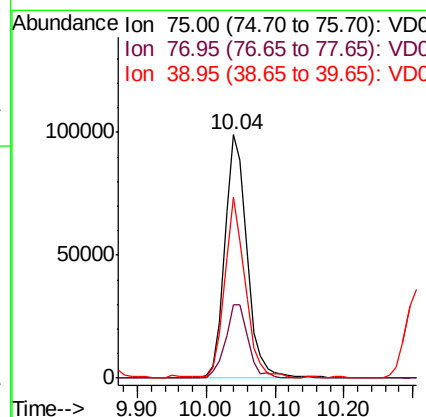
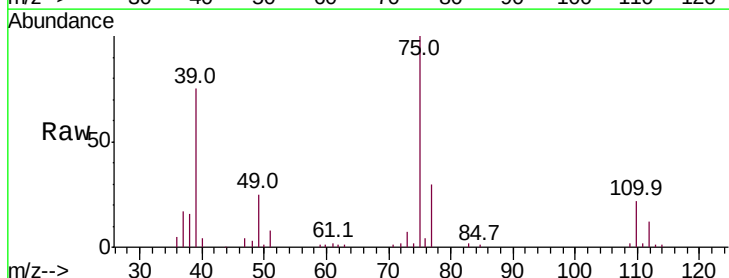
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0719SBS01

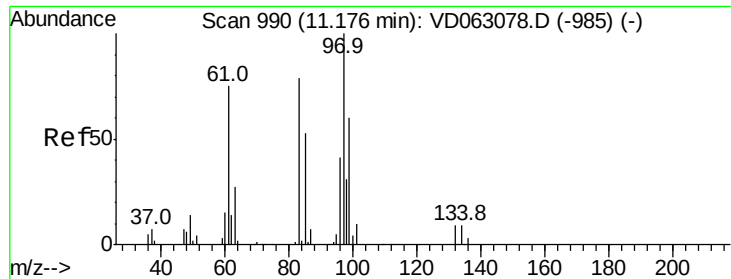
Tot Ion: 75 Resp: 227896
 Ion Ratio Lower Upper
 75 100
 77 33.4 24.9 37.3



#54
 cis-1,3-Dichloropropene
 Concen: 19.368 ug/l
 RT: 10.04 min Scan# 875
 Delta R.T. 0.01 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

Tgt Ion: 75 Resp: 221285
 Ion Ratio Lower Upper
 75 100
 77 30.2 23.9 35.9
 39 74.5 59.4 89.0



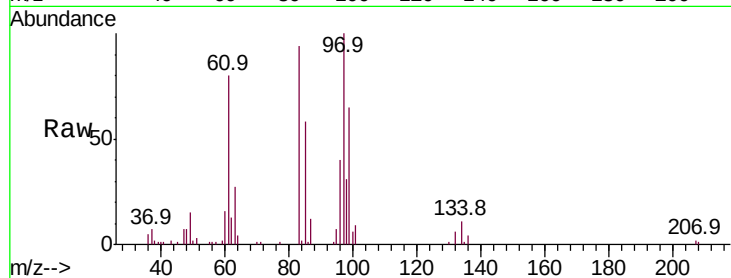


#55
 1,1,2-Trichloroethane
 Concen: 21.357 ug/l
 RT: 11.19 min Scan# 992
 Delta R.T. 0.01 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

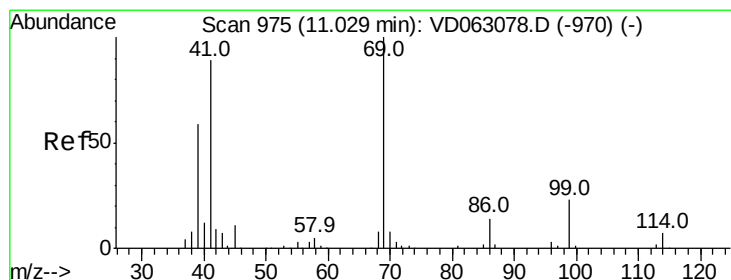
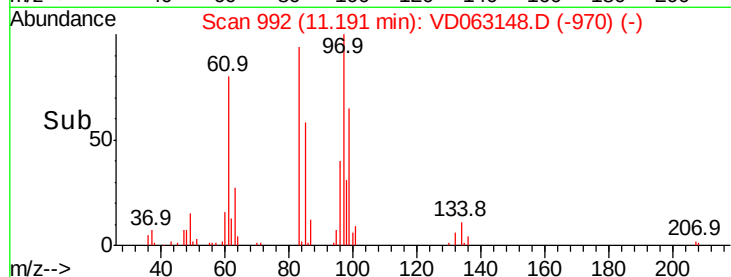
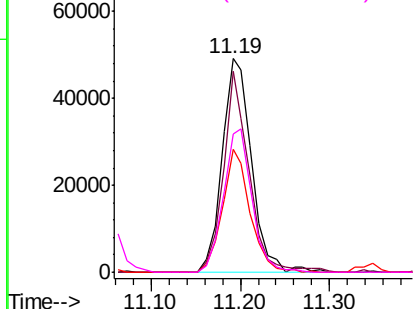
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0719SBS01

Tot Ion: 97 Resp: 113693

Ion	Ratio	Lower	Upper
97	100		
83	93.9	63.2	94.8
85	57.8	42.0	63.0
99	64.7	48.3	72.5



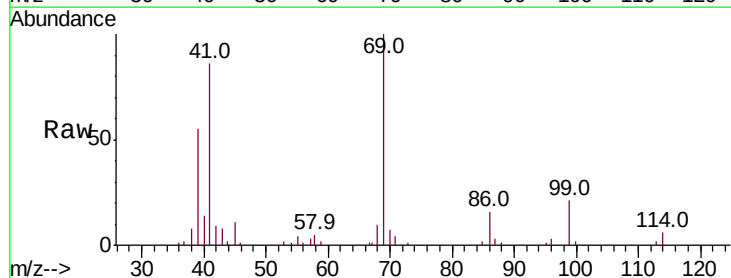
Abundance Ion 96.85 (96.55 to 97.55): VDC
 Ion 82.95 (82.65 to 83.65): VDC
 Ion 84.95 (84.65 to 85.65): VDC
 Ion 98.85 (98.55 to 99.55): VDC



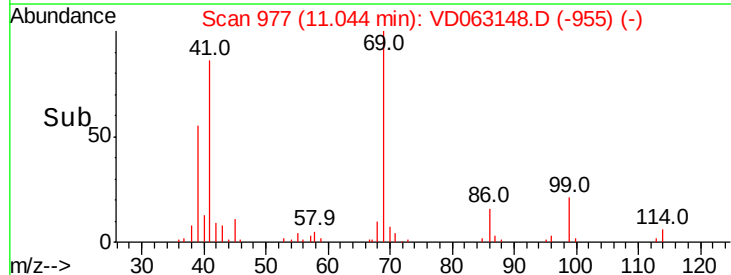
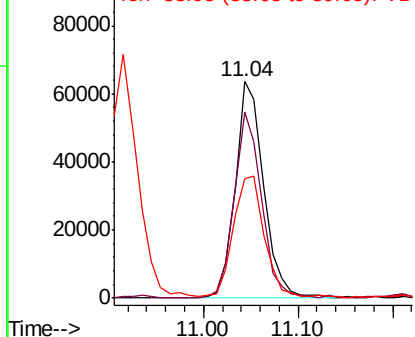
#56
 Ethyl methacrylate
 Concen: 22.217 ug/l
 RT: 11.04 min Scan# 977
 Delta R.T. 0.01 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

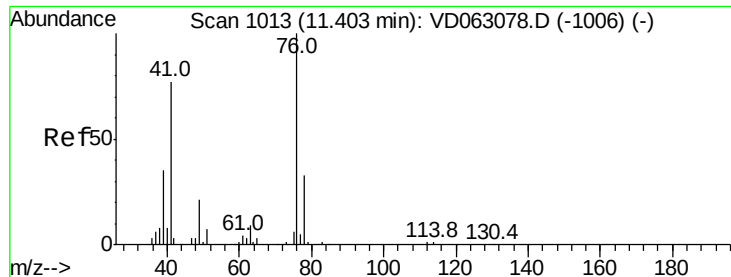
Tgt Ion: 69 Resp: 132150

Ion	Ratio	Lower	Upper
69	100		
41	86.1	71.0	106.4
39	55.3	47.7	71.5



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





#57

1,3-Dichloropropane

Concen: 20.416 ug/l

RT: 11.42 min Scan# 1015

Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

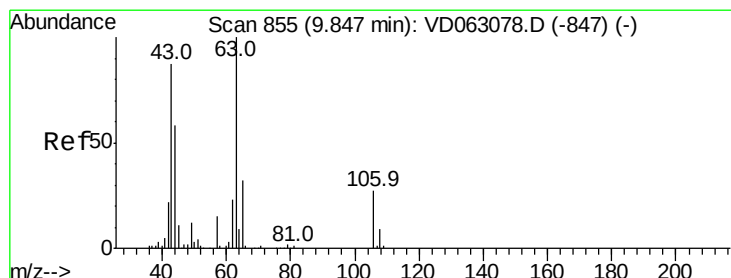
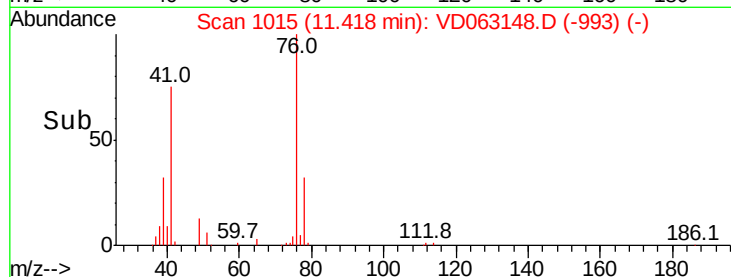
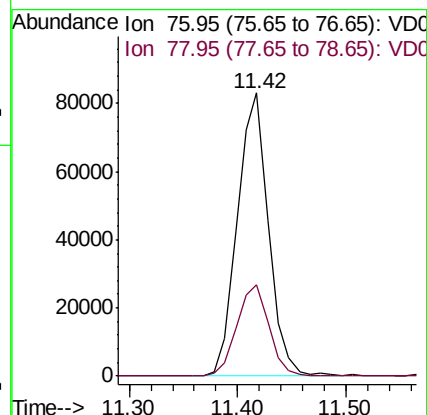
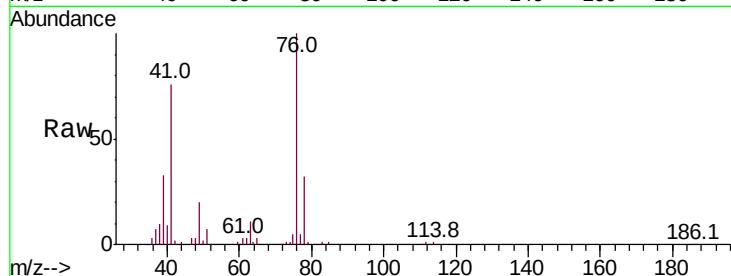
VD0719SBS01

Tot Ion: 76 Resp: 165384

Ion Ratio Lower Upper

76 100

78 32.4 26.8 40.2



#58

2-Chloroethyl Vinyl ether

Concen: 104.622 ug/l

RT: 9.86 min Scan# 857

Delta R.T. 0.01 min

Lab File: VD063148.D

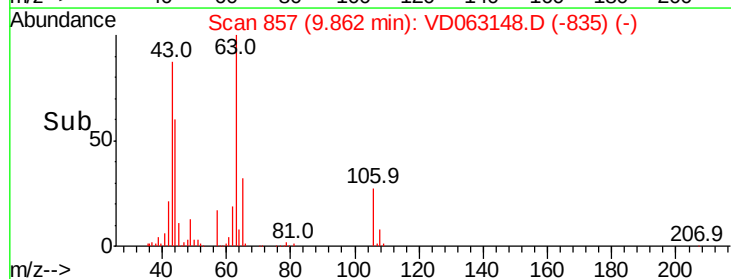
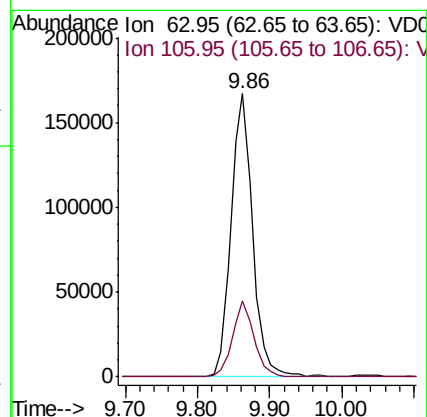
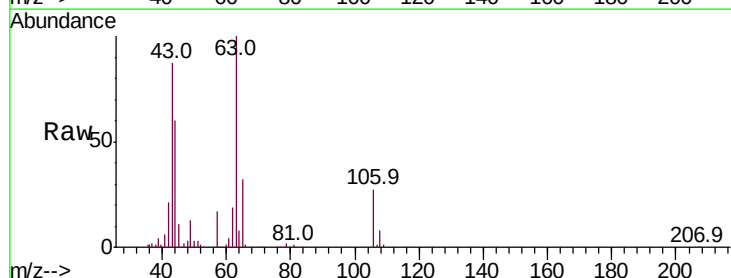
Acq: 19 Jul 2019 12:32

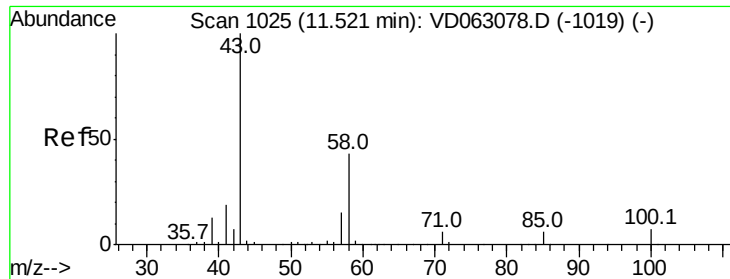
Tgt Ion: 63 Resp: 346498

Ion Ratio Lower Upper

63 100

106 27.0 21.3 31.9





#59

2-Hexanone

Concen: 114.358 ug/l

RT: 11.54 min Scan# 1027

Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampleID :

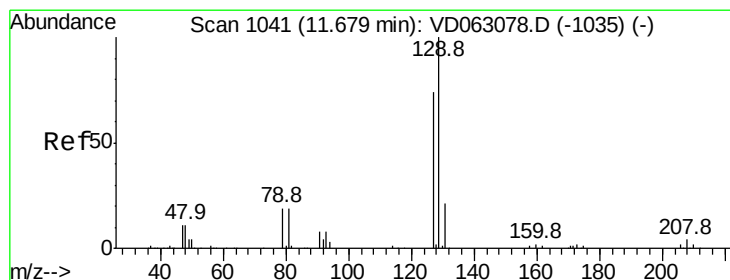
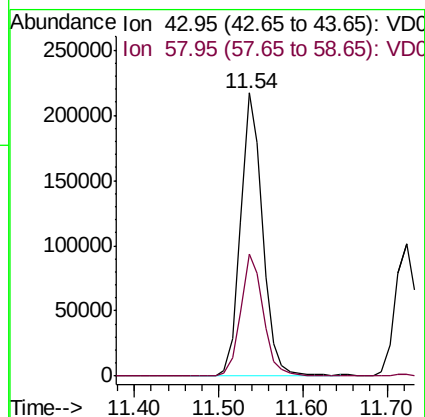
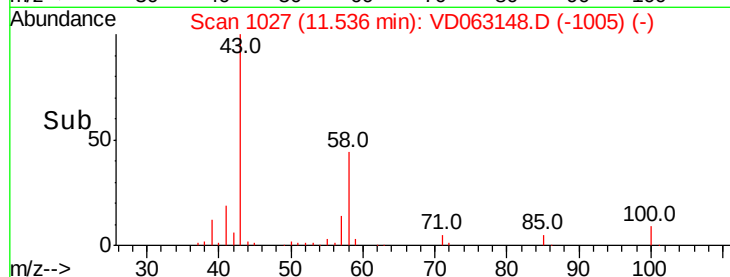
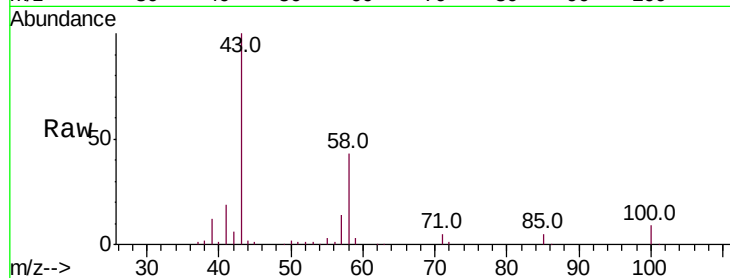
VD0719SBS01

Tot Ion: 43 Resp: 395230

Ion Ratio Lower Upper

43 100

58 43.3 21.7 65.1



#60

Dibromochloromethane

Concen: 20.032 ug/l

RT: 11.69 min Scan# 1043

Delta R.T. 0.01 min

Lab File: VD063148.D

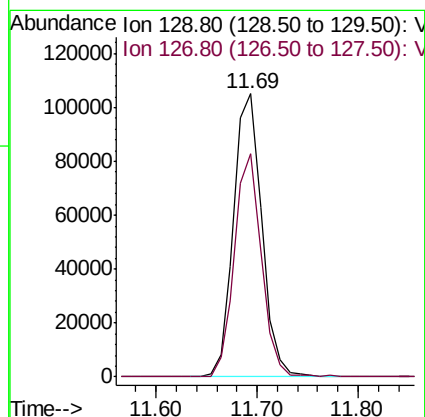
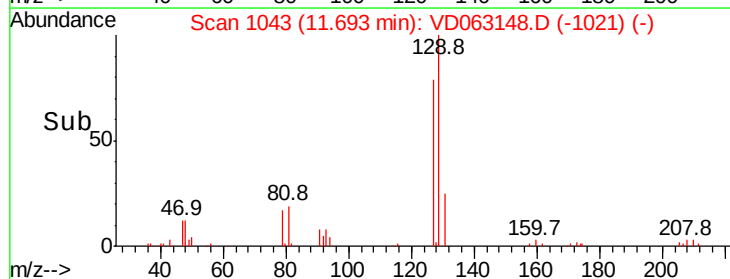
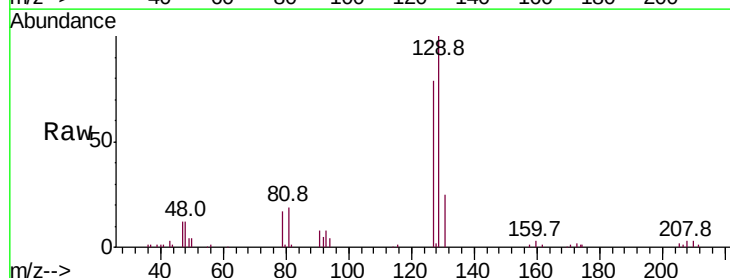
Acq: 19 Jul 2019 12:32

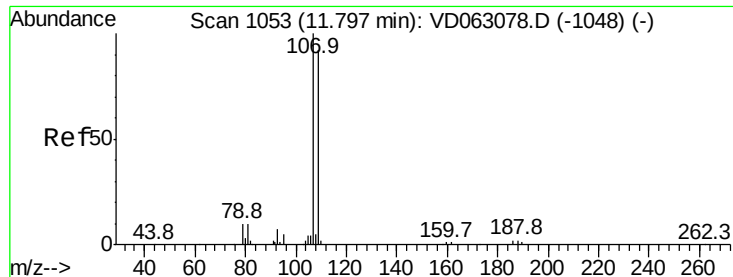
Tgt Ion: 129 Resp: 204415

Ion Ratio Lower Upper

129 100

127 78.7 37.0 110.9





#61

1,2-Dibromoethane

Concen: 22.020 ug/l

RT: 11.81 min Scan# 1055

Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

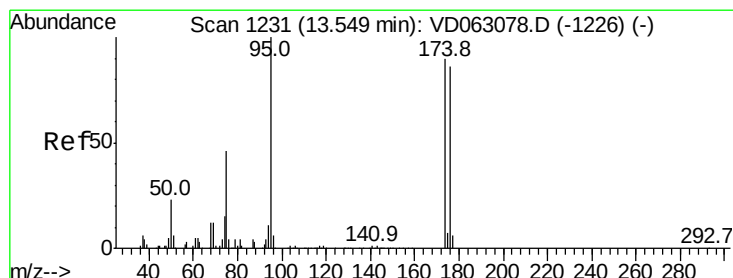
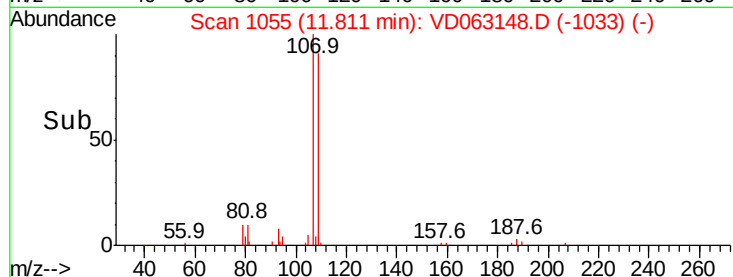
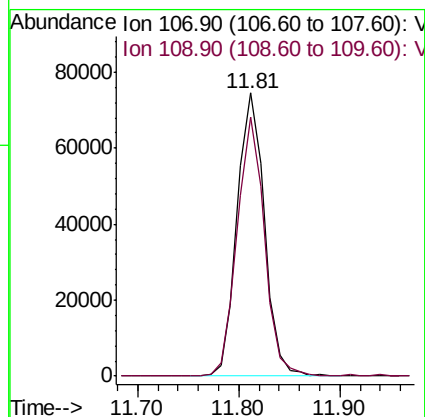
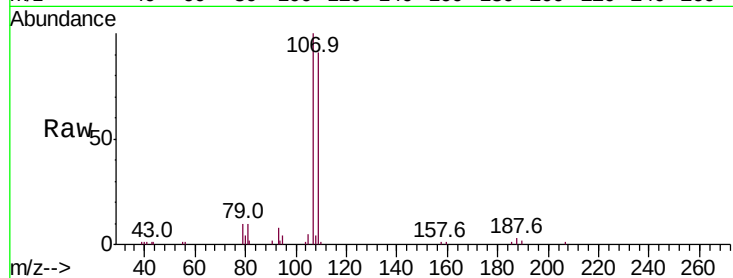
VD0719SBS01

Tot Ion:107 Resp: 140319

Ion Ratio Lower Upper

107 100

109 91.5 73.6 110.4



#62

4-Bromofluorobenzene

Concen: 42.424 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

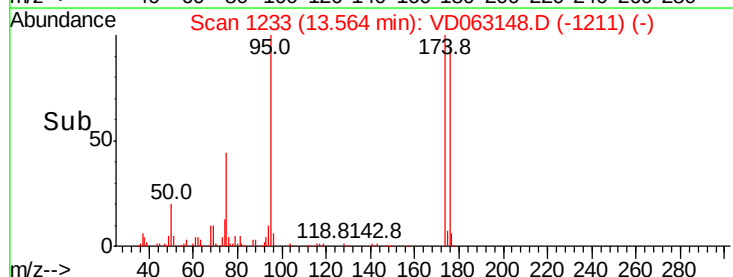
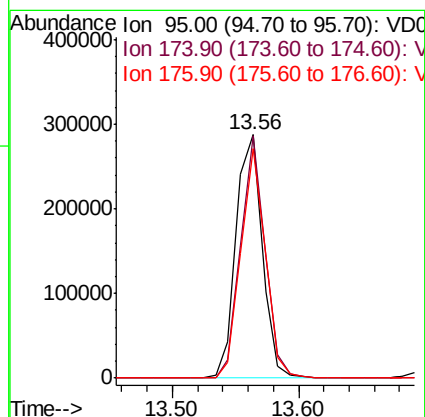
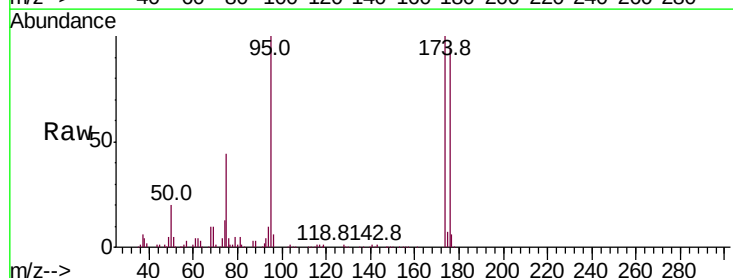
Tgt Ion: 95 Resp: 411233

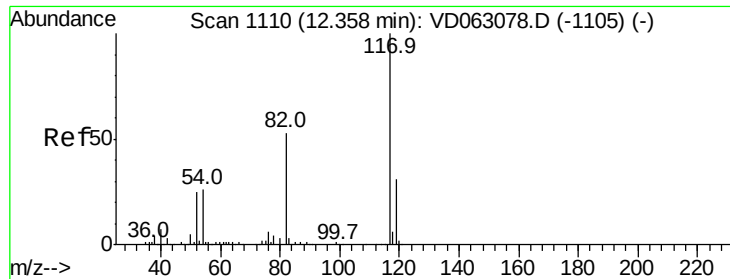
Ion Ratio Lower Upper

95 100

174 99.6 0.0 180.6

176 94.3 0.0 172.2

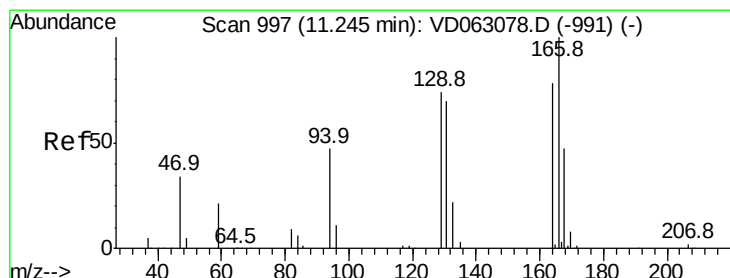
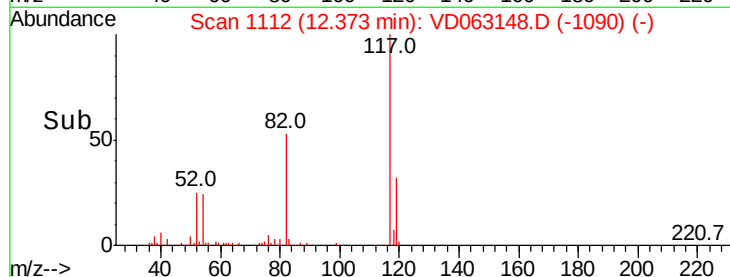
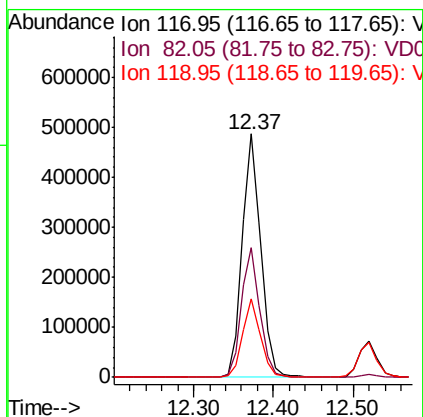
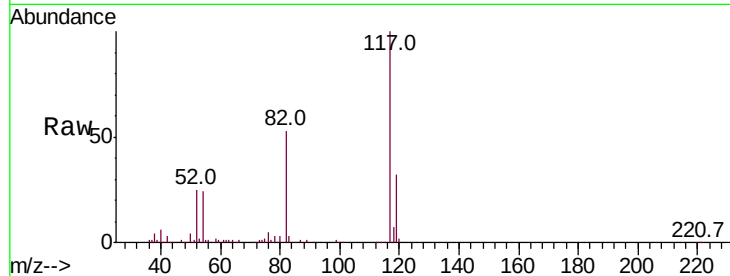




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

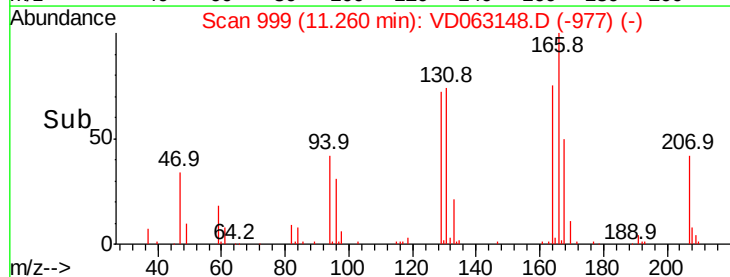
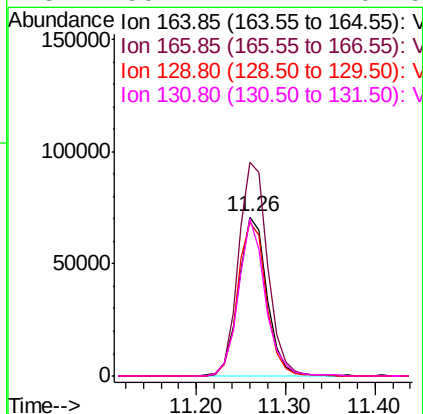
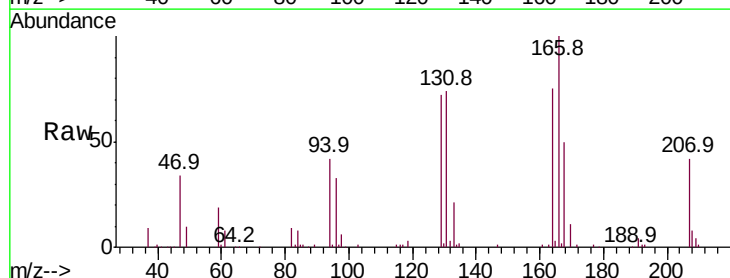
Instrument :
MSVOA_D
ClientSampleId :
VD0719SBS01

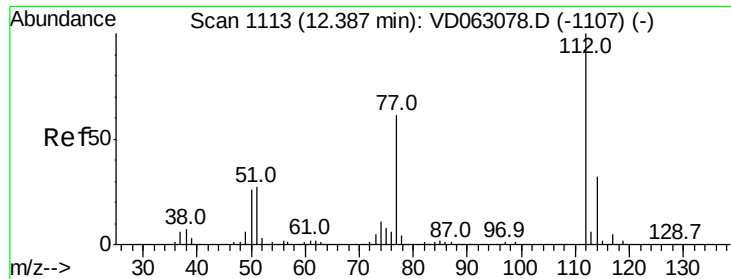
Tot Ion:117 Resp: 788610
Ion Ratio Lower Upper
117 100
82 53.2 42.3 63.5
119 32.4 25.2 37.8



#64
Tetrachloroethene
Concen: 20.529 ug/l
RT: 11.26 min Scan# 999
Delta R.T. 0.01 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

Tgt Ion:164 Resp: 157089
Ion Ratio Lower Upper
164 100
166 134.2 102.8 154.2
129 96.8 76.4 114.6
131 99.2 71.7 107.5





#65

Chlorobenzene

Concen: 20.650 ug/l

RT: 12.40 min Scan# 1115

Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

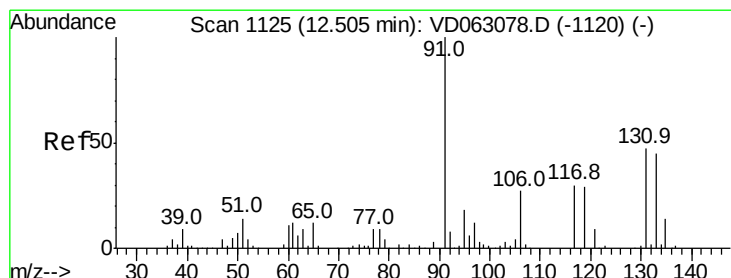
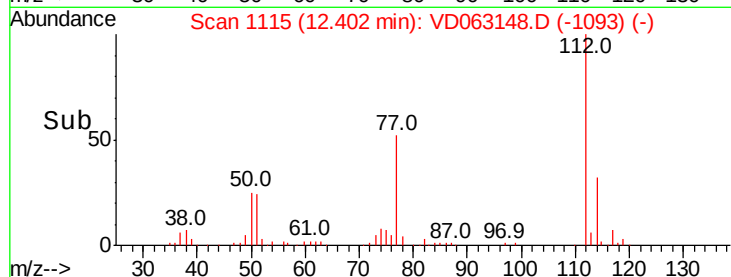
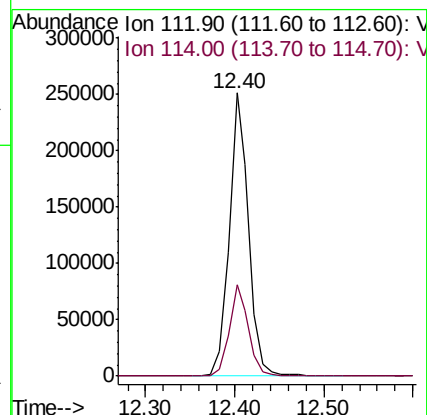
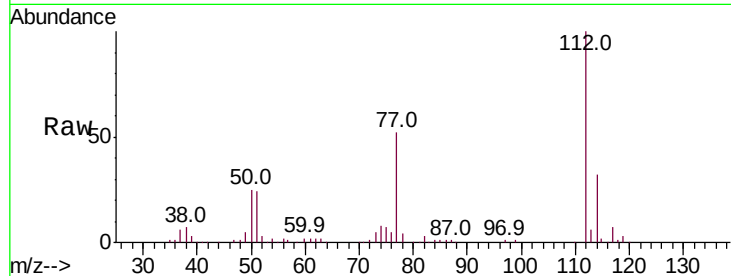
VD0719SBS01

Tot Ion:112 Resp: 382812

Ion Ratio Lower Upper

112 100

114 32.1 25.9 38.9



#66

1,1,1,2-Tetrachloroethane

Concen: 20.976 ug/l

RT: 12.52 min Scan# 1127

Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

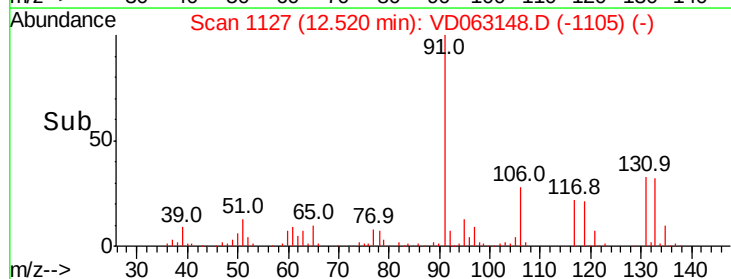
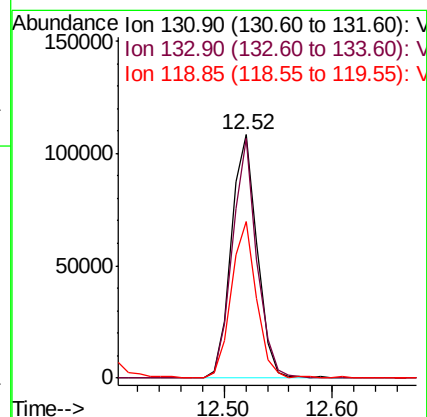
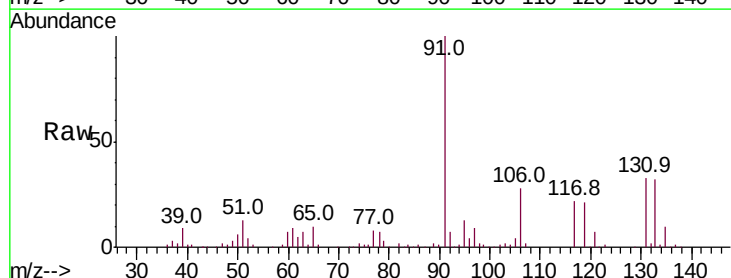
Tgt Ion:131 Resp: 180281

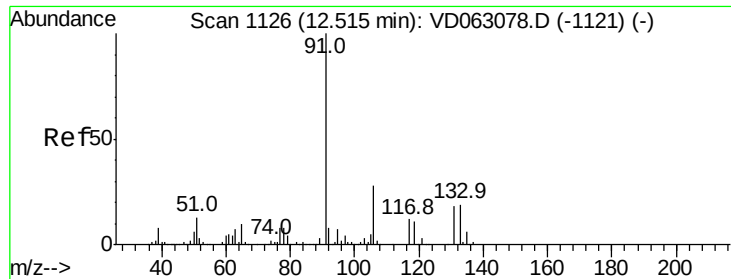
Ion Ratio Lower Upper

131 100

133 98.6 48.5 145.6

119 64.4 30.8 92.3





#67

Ethyl Benzene

Concen: 20.829 ug/l

RT: 12.53 min Scan# 1128

Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

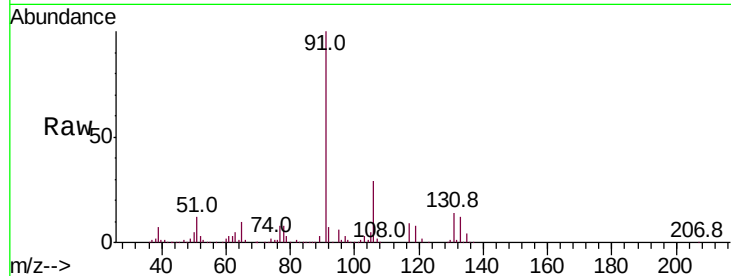
VD0719SBS01

Tot Ion: 91 Resp: 670920

Ion Ratio Lower Upper

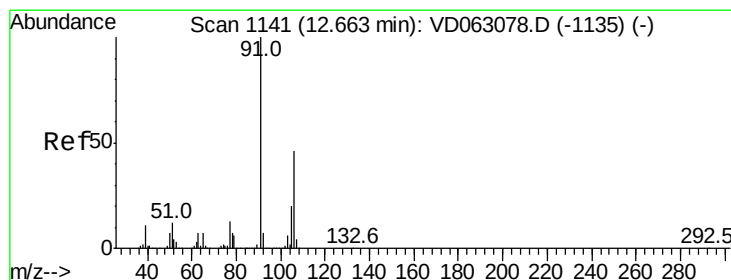
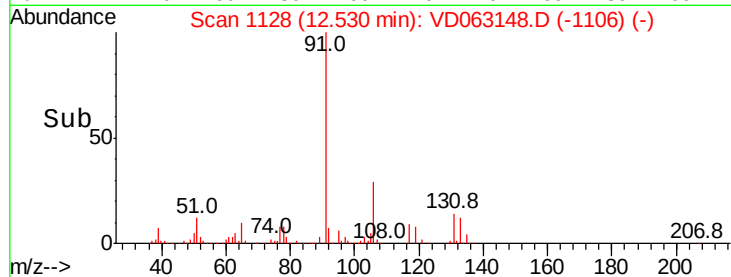
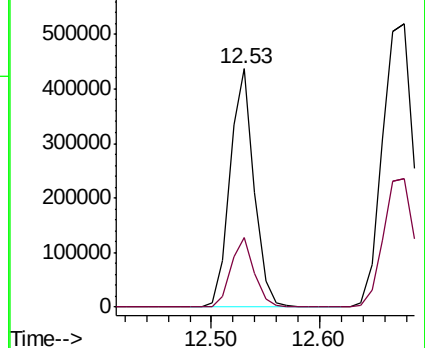
91 100

106 29.1 22.5 33.7



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 106.05 (105.75 to 106.75): VDC



#68

m/p-Xylenes

Concen: 40.718 ug/l

RT: 12.68 min Scan# 1143

Delta R.T. 0.01 min

Lab File: VD063148.D

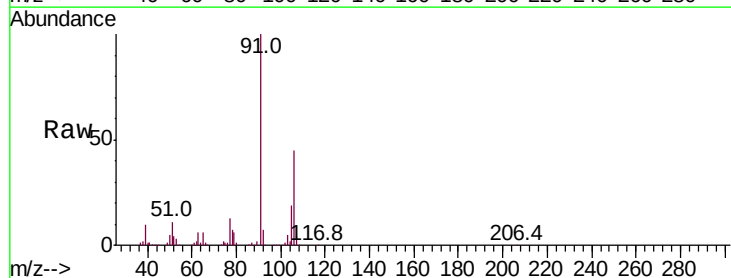
Acq: 19 Jul 2019 12:32

Tgt Ion: 106 Resp: 469749

Ion Ratio Lower Upper

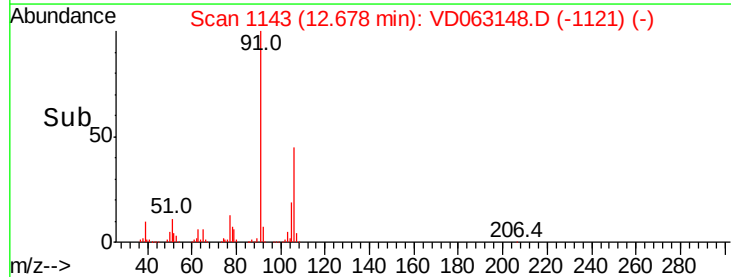
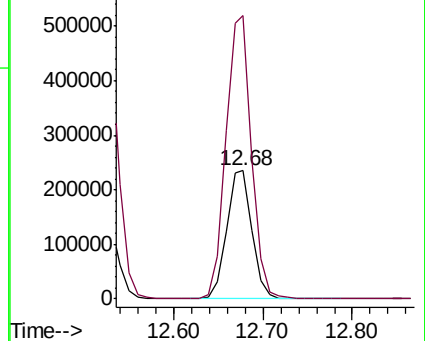
106 100

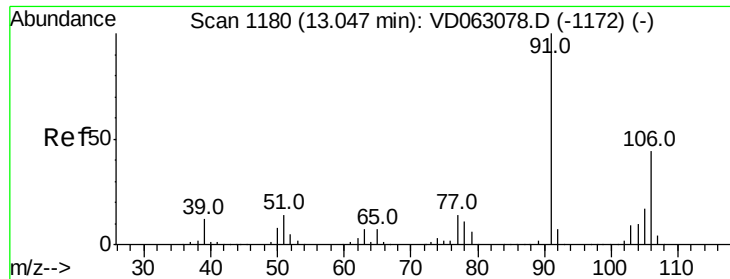
91 220.8 173.0 259.6



Abundance Ion 106.05 (105.75 to 106.75): VDC

Ion 91.00 (90.70 to 91.70): VDC

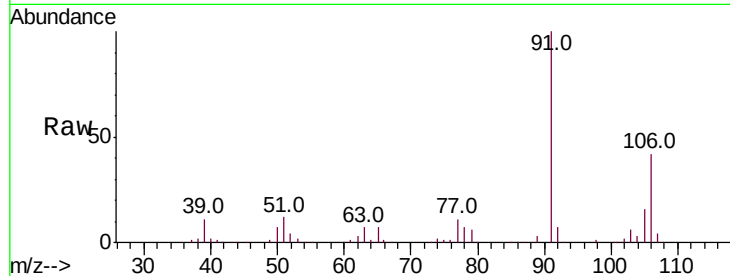




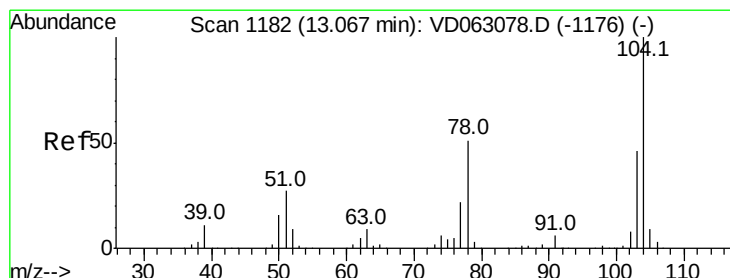
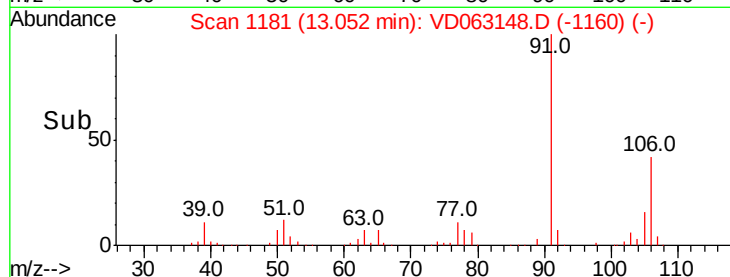
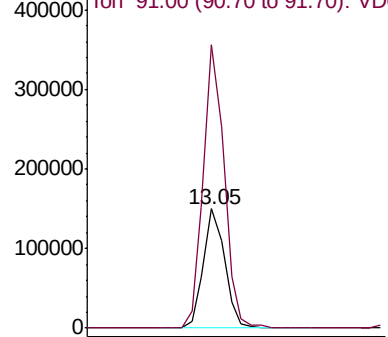
#69
o-Xylene
Concen: 20.247 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

Instrument :
MSVOA_D
ClientSampleId :
VD0719SBS01

Tot Ion:106 Resp: 221483
Ion Ratio Lower Upper
106 100
91 237.1 114.9 344.7

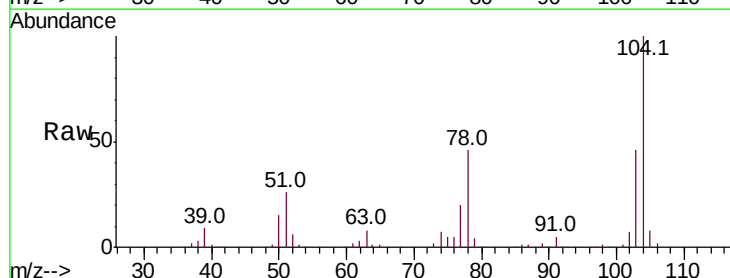


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

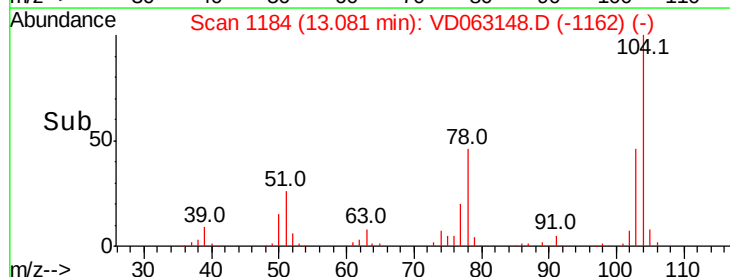
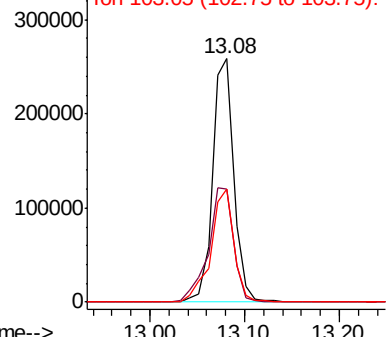


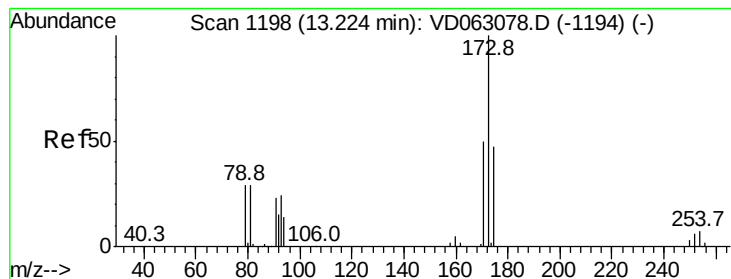
#70
Styrene
Concen: 20.926 ug/l
RT: 13.08 min Scan# 1184
Delta R.T. 0.01 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

Tgt Ion:104 Resp: 400703
Ion Ratio Lower Upper
104 100
78 46.2 41.1 61.7
103 46.5 37.0 55.6



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





#71

Bromoform

Concen: 22.750 ug/l

RT: 13.24 min Scan# 1200

Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

VD0719SBS01

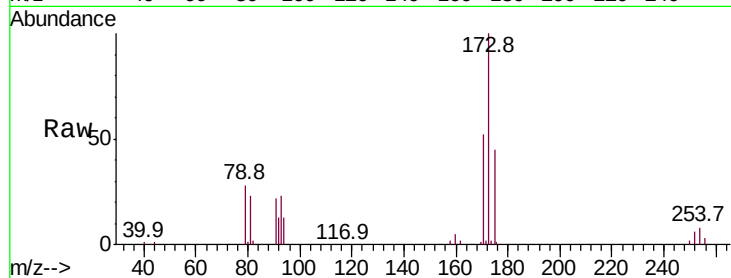
Tot Ion:173 Resp: 136892

Ion Ratio Lower Upper

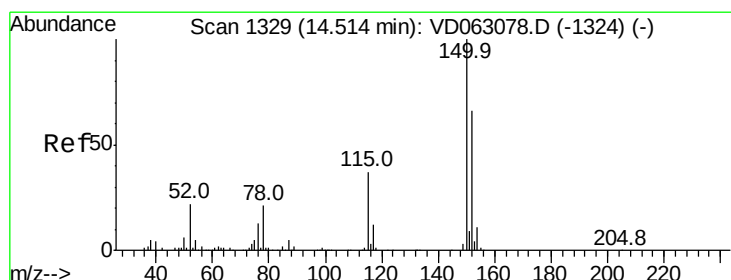
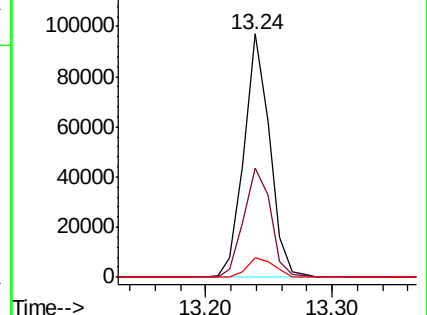
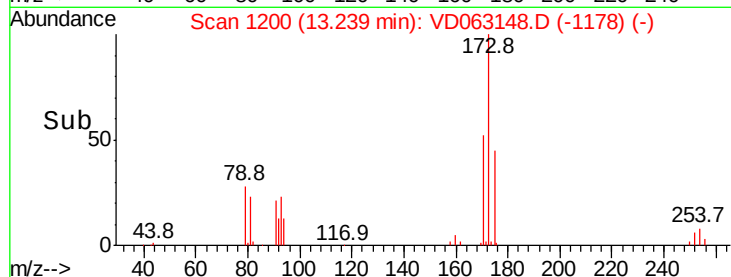
173 100

175 44.9 23.4 70.2

254 8.3 5.4 8.0#



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

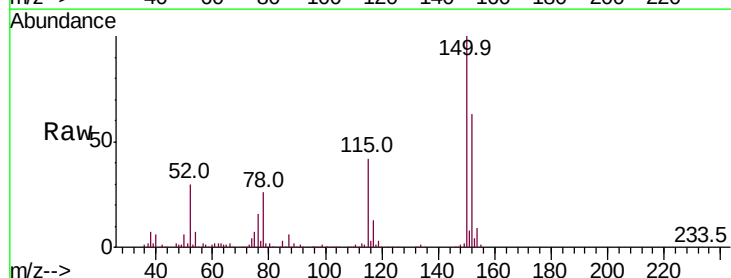
Tgt Ion:152 Resp: 488349

Ion Ratio Lower Upper

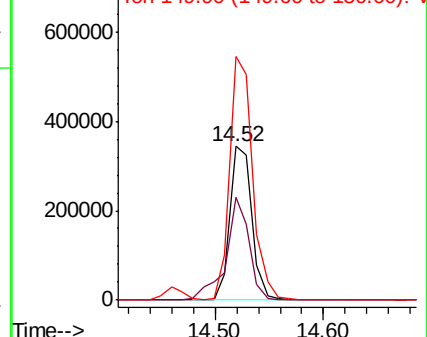
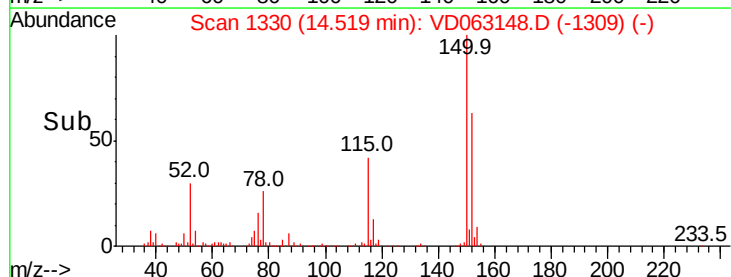
152 100

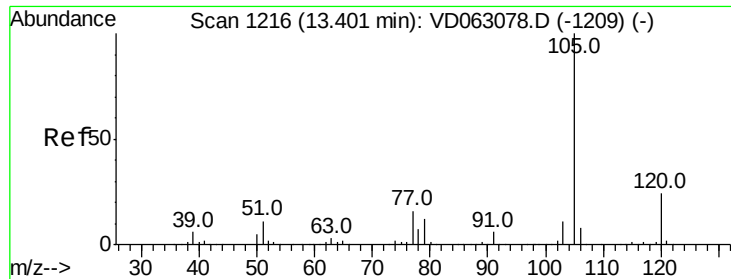
115 66.8 28.9 86.8

150 158.3 0.0 313.8



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

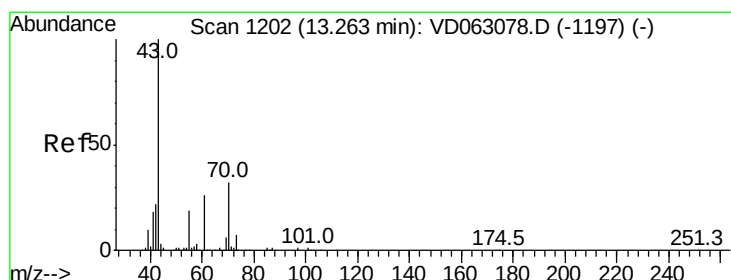
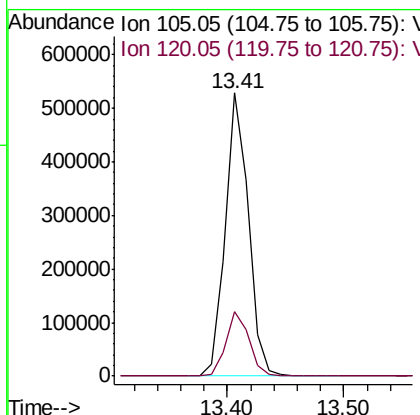
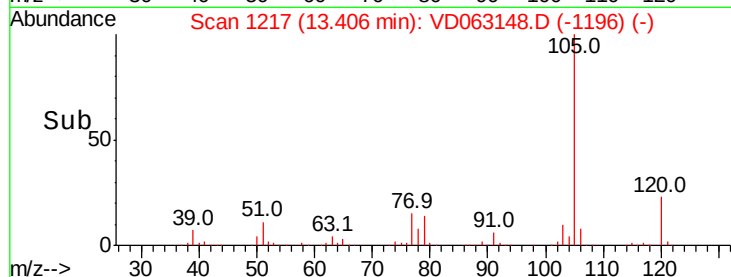
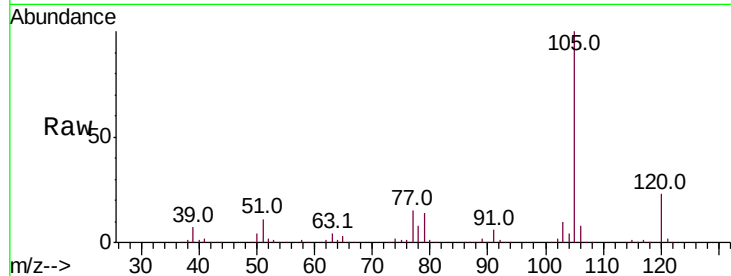




#73
Isopropylbenzene
Concen: 19.174 ug/l
RT: 13.41 min Scan# 1217
Delta R.T. 0.01 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

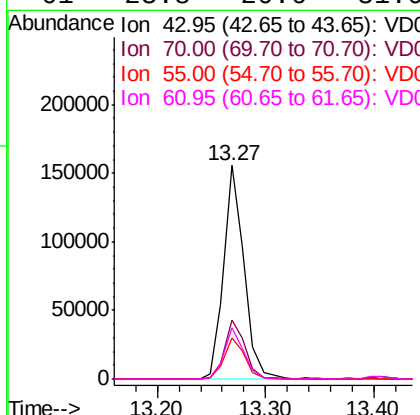
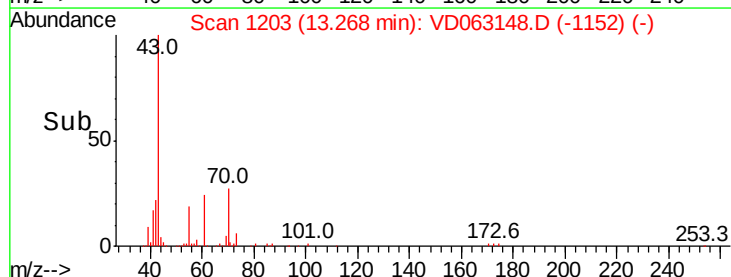
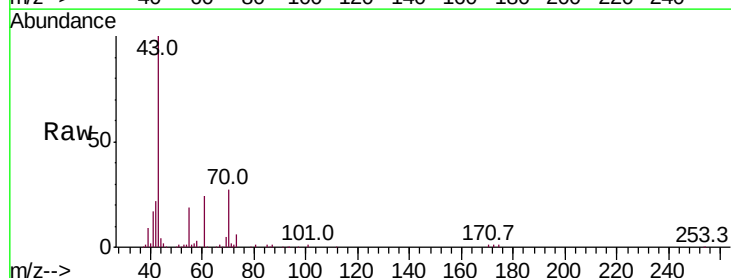
Instrument :
MSVOA_D
ClientSampleId :
VD0719SBS01

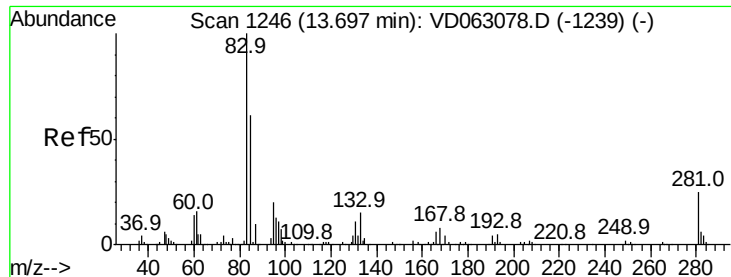
Tot Ion:105 Resp: 723139
Ion Ratio Lower Upper
105 100
120 22.8 12.2 36.4



#74
N-ethyl acetate
Concen: 19.341 ug/l
RT: 13.27 min Scan# 1203
Delta R.T. 0.00 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

Tgt Ion: 43 Resp: 203424
Ion Ratio Lower Upper
43 100
70 27.5 25.5 38.3
55 19.3 15.4 23.0
61 23.8 20.6 31.0





#75

1,1,2,2-Tetrachloroethane

Concen: 19.446 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. 0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

VD0719SBS01

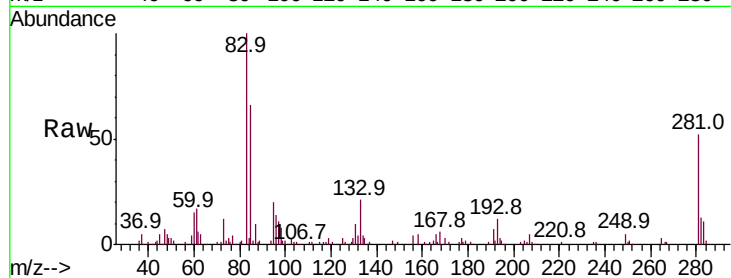
Tot Ion: 83 Resp: 133435

Ion Ratio Lower Upper

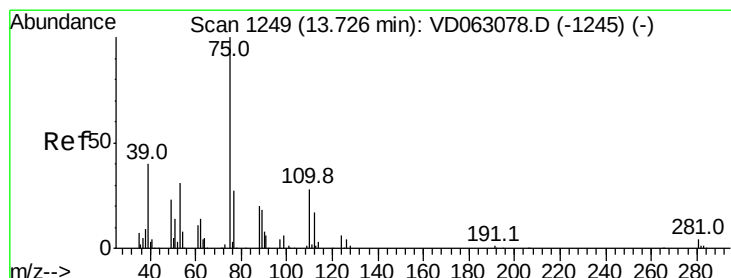
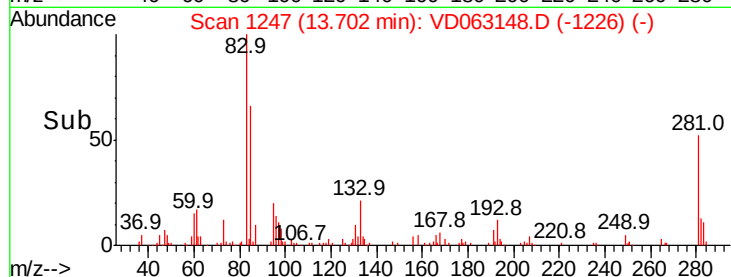
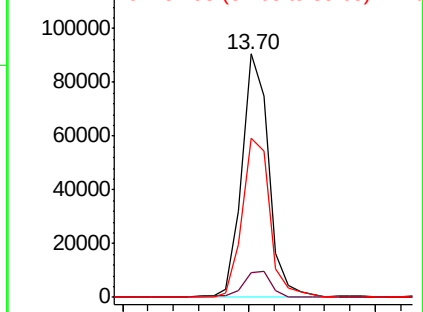
83 100

131 9.9 5.5 16.7

85 65.6 30.7 92.1



Abundance Ion 82.95 (82.65 to 83.65): VDC
Ion 130.90 (130.60 to 131.60): VDC
Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 20.549 ug/l

RT: 13.74 min Scan# 1251

Delta R.T. 0.01 min

Lab File: VD063148.D

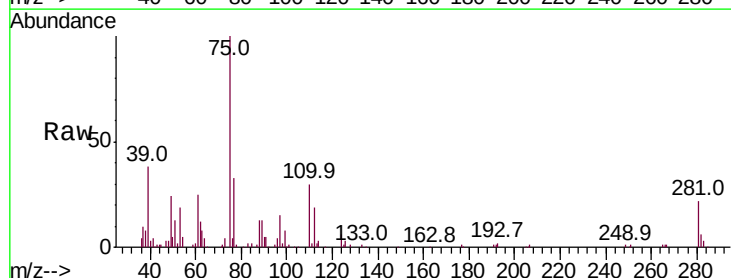
Acq: 19 Jul 2019 12:32

Tgt Ion: 75 Resp: 154372

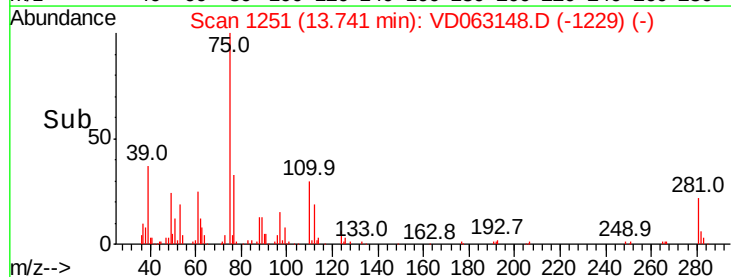
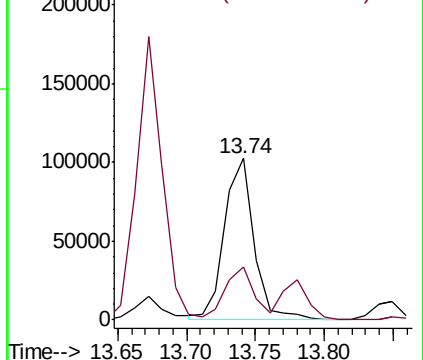
Ion Ratio Lower Upper

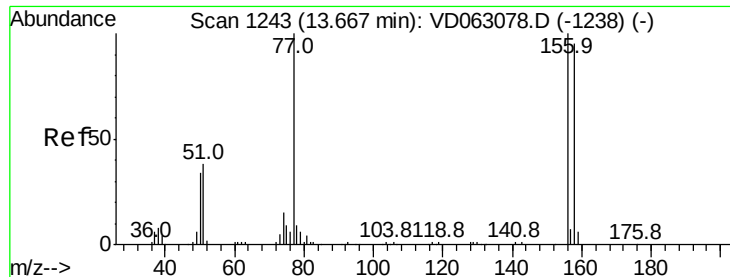
75 100

77 32.8 16.3 48.8



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





#77

Bromobenzene

Concen: 18.059 ug/l

RT: 13.67 min Scan# 1244

Delta R.T. 0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

VD0719SBS01

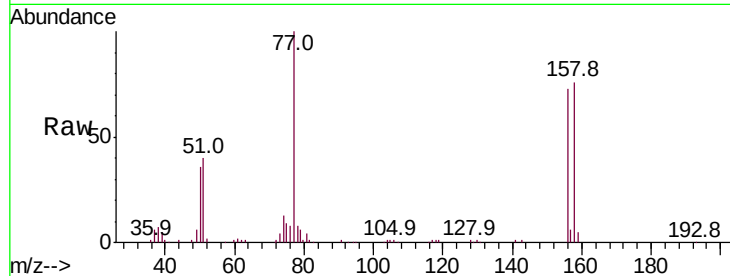
Tot Ion:156 Resp: 193140

Ion Ratio Lower Upper

156 100

77 137.3 50.2 150.7

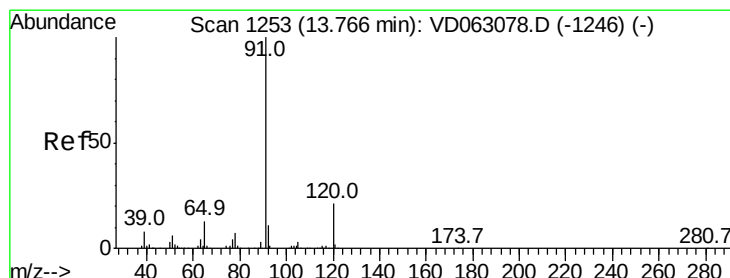
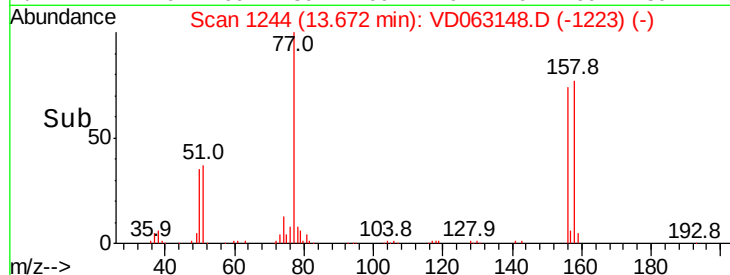
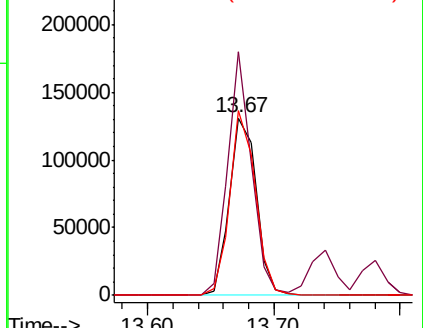
158 104.0 47.6 142.9



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 18.741 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. 0.01 min

Lab File: VD063148.D

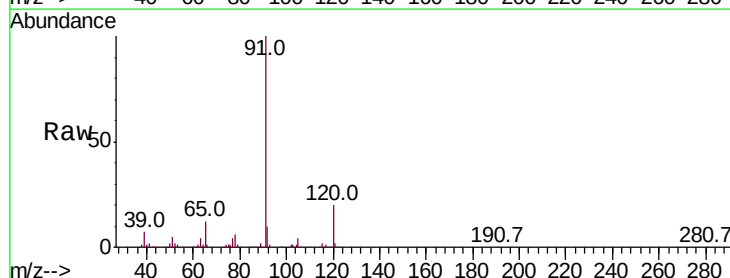
Acq: 19 Jul 2019 12:32

Tgt Ion: 91 Resp: 813374

Ion Ratio Lower Upper

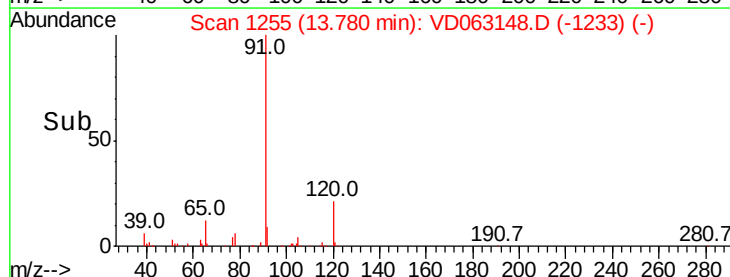
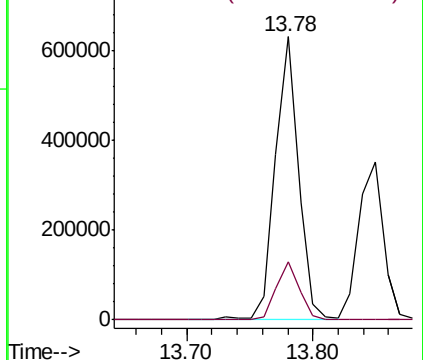
91 100

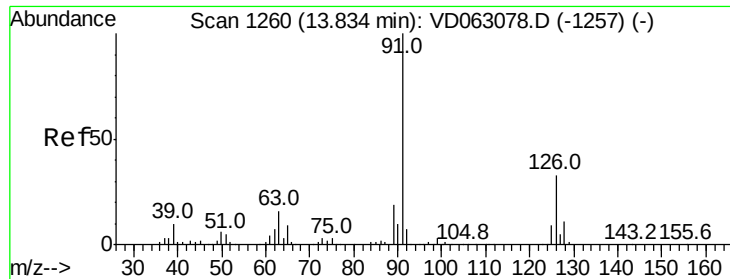
120 20.5 10.5 31.6



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 18.108 ug/l

RT: 13.85 min Scan# 1262

Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

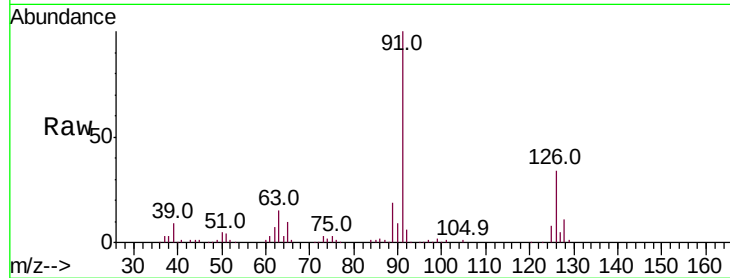
VD0719SBS01

Tot Ion: 91 Resp: 475180

Ion Ratio Lower Upper

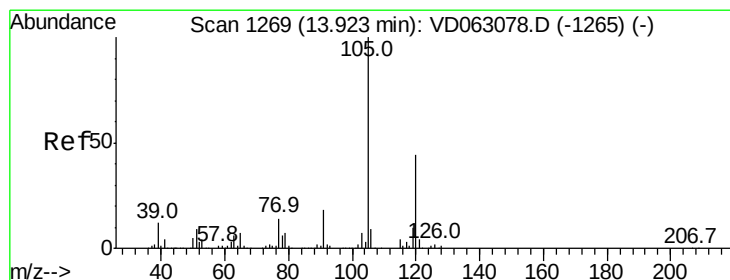
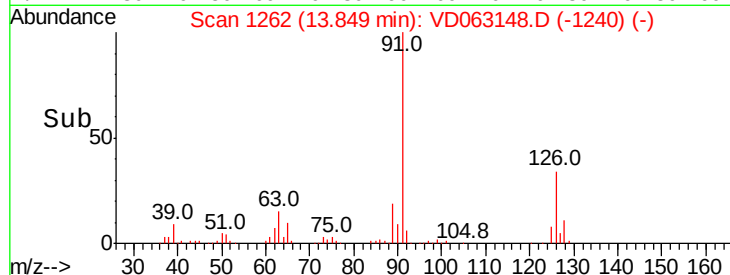
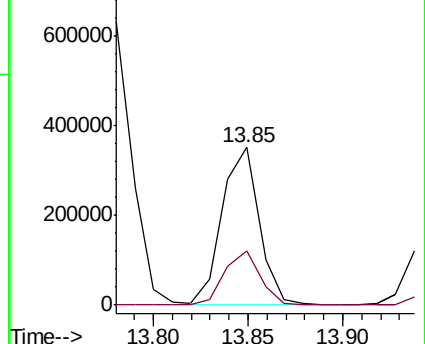
91 100

126 34.3 16.4 49.2



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#80

1,3,5-Trimethylbenzene

Concen: 17.749 ug/l

RT: 13.94 min Scan# 1271

Delta R.T. 0.01 min

Lab File: VD063148.D

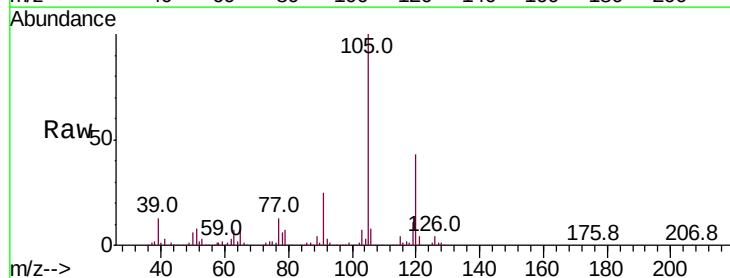
Acq: 19 Jul 2019 12:32

Tgt Ion:105 Resp: 583400

Ion Ratio Lower Upper

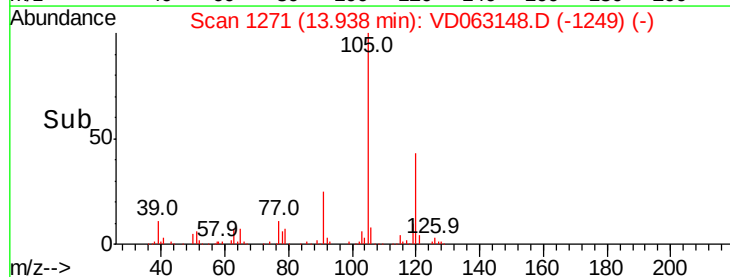
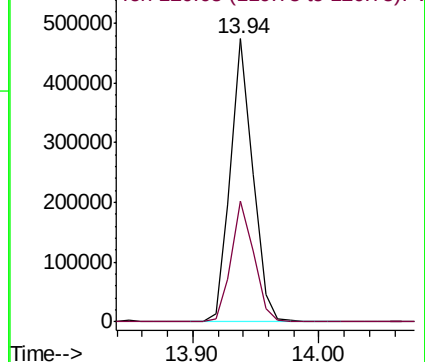
105 100

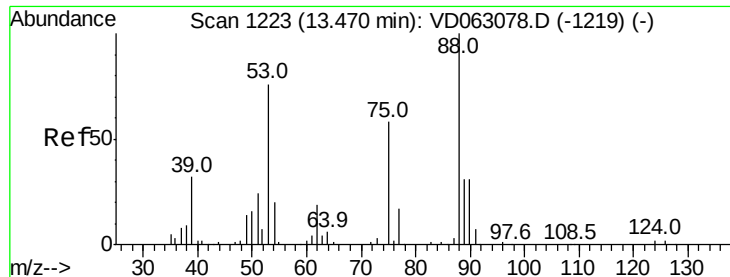
120 42.7 21.8 65.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#81

trans-1,4-Dichloro-2-butene

Concen: 18.757 ug/l

RT: 13.48 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

VD0719SBS01

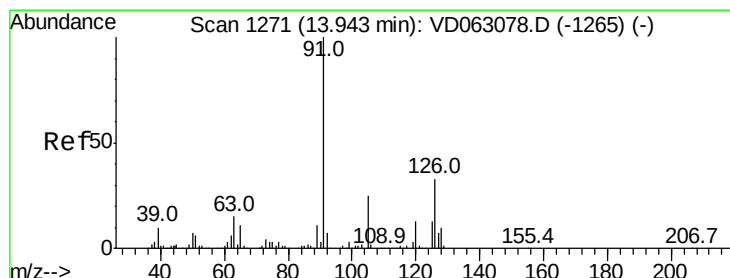
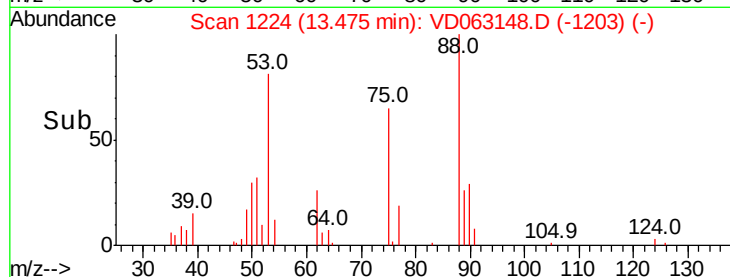
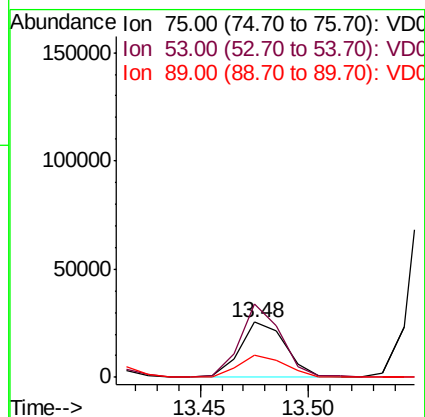
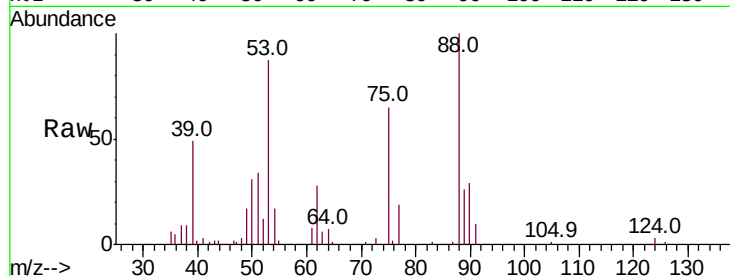
Tot Ion: 75 Resp: 37106

Ion Ratio Lower Upper

75 100

53 132.2 104.4 156.6

89 39.5 43.1 64.7#



#82

4-Chlorotoluene

Concen: 18.214 ug/l

RT: 13.95 min Scan# 1272

Delta R.T. 0.00 min

Lab File: VD063148.D

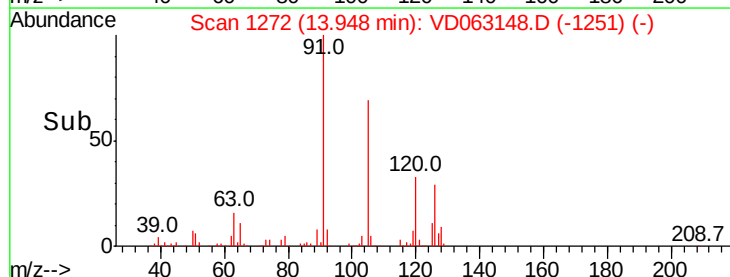
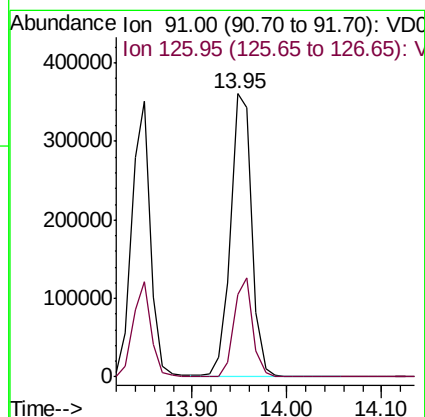
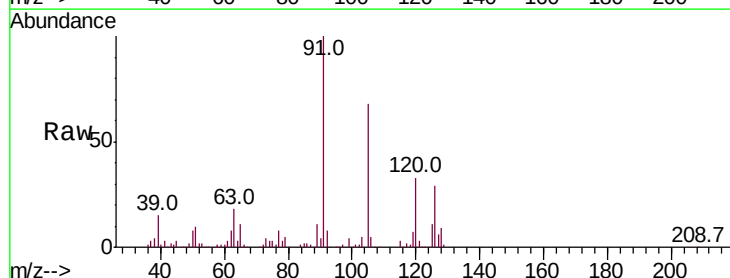
Acq: 19 Jul 2019 12:32

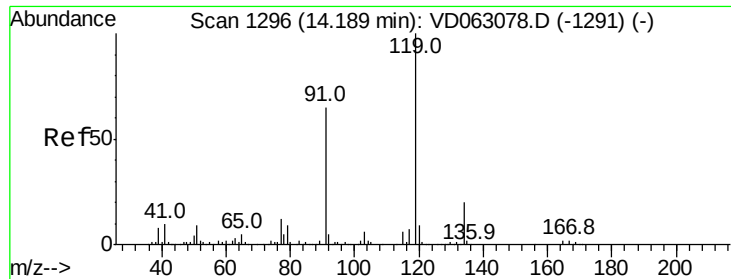
Tgt Ion: 91 Resp: 558117

Ion Ratio Lower Upper

91 100

126 29.0 16.7 50.1

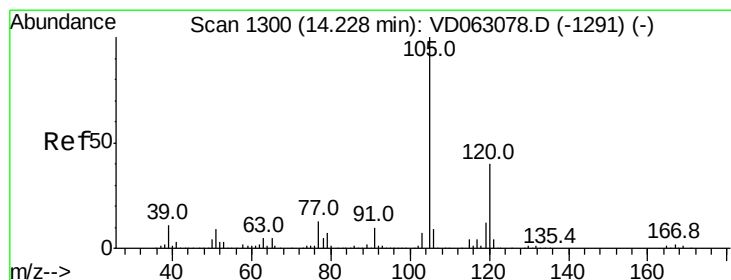
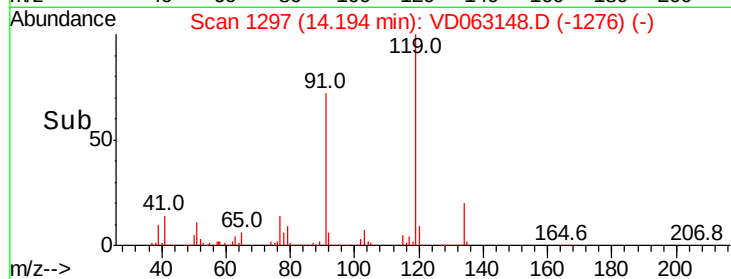
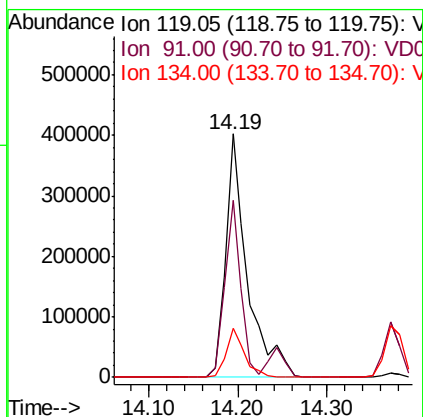
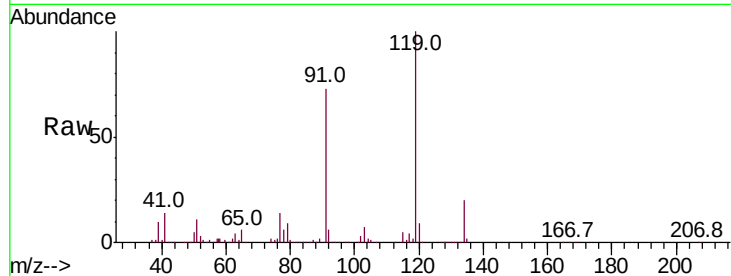




#83
 tert-Butylbenzene
 Concen: 18.490 ug/l
 RT: 14.19 min Scan# 1297
 Delta R.T. 0.01 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

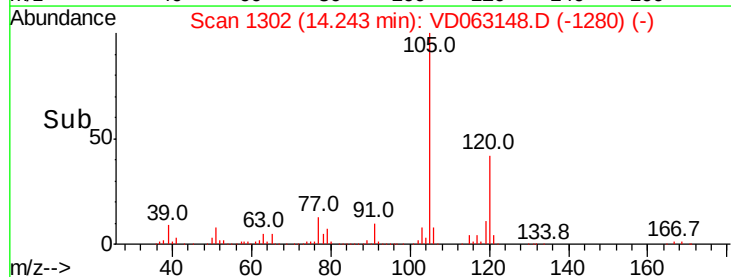
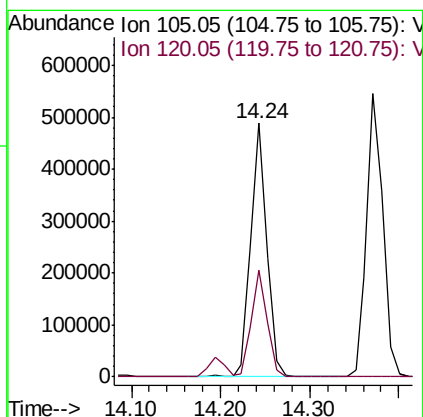
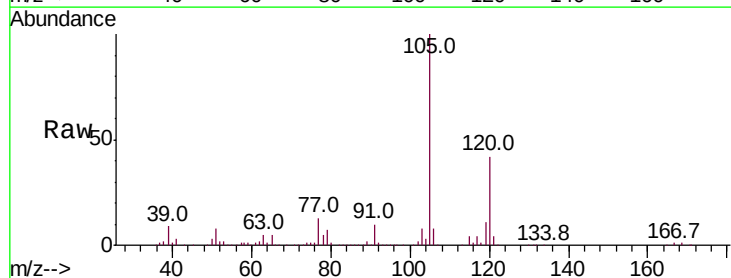
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0719SBS01

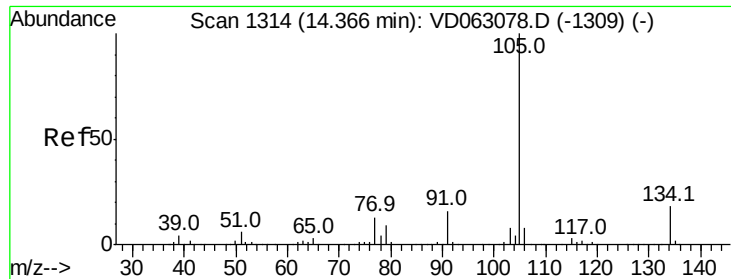
Tot Ion:119 Resp: 687200
 Ion Ratio Lower Upper
 119 100
 91 72.6 32.4 97.2
 134 20.1 10.2 30.6



#84
 1,2,4-Trimethylbenzene
 Concen: 18.552 ug/l
 RT: 14.24 min Scan# 1302
 Delta R.T. 0.01 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

Tgt Ion:105 Resp: 607924
 Ion Ratio Lower Upper
 105 100
 120 42.3 20.2 60.6

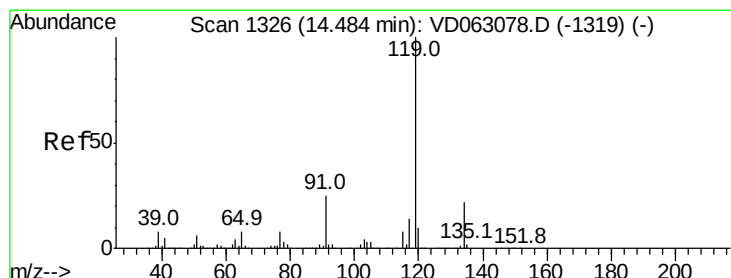
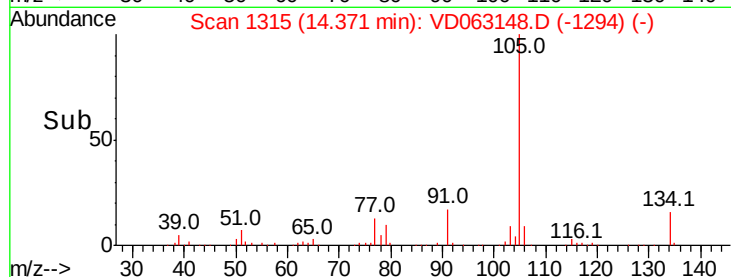
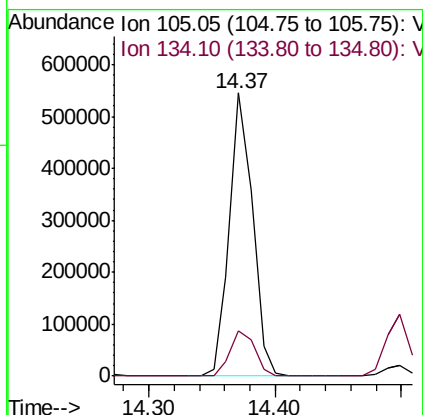
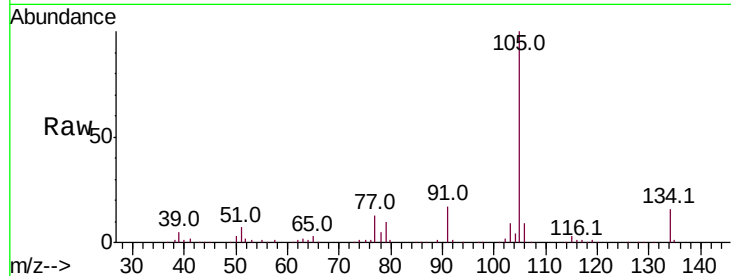




#85
 sec-Butylbenzene
 Concen: 17.573 ug/l
 RT: 14.37 min Scan# 1315
 Delta R.T. 0.00 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

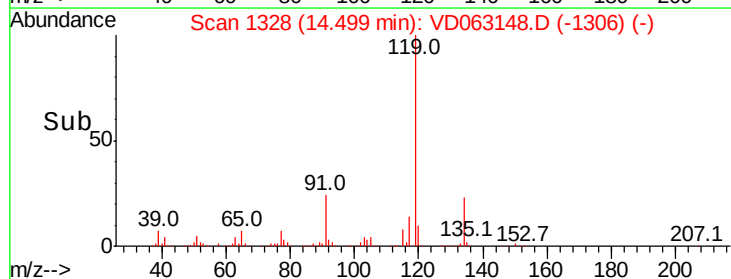
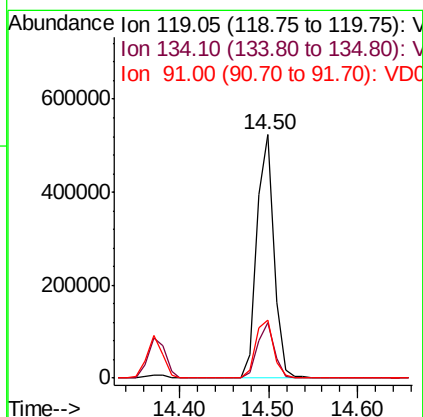
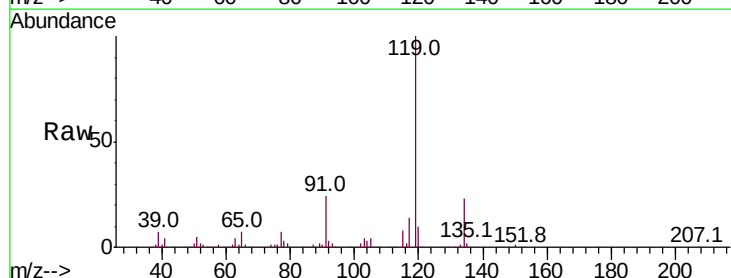
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0719SBS01

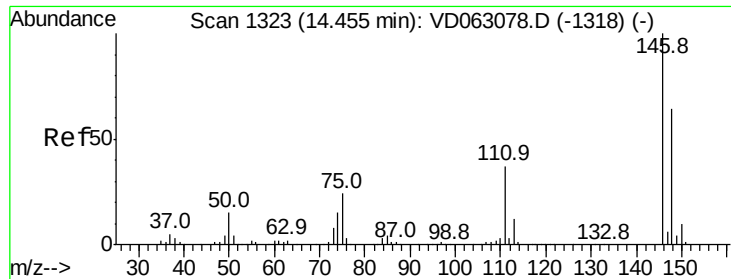
Tot Ion:105 Resp: 693935
 Ion Ratio Lower Upper
 105 100
 134 15.8 8.9 26.8



#86
 p-Isopropyltoluene
 Concen: 18.698 ug/l
 RT: 14.50 min Scan# 1328
 Delta R.T. 0.01 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

Tgt Ion:119 Resp: 688777
 Ion Ratio Lower Upper
 119 100
 134 22.8 10.8 32.4
 91 24.0 12.5 37.5

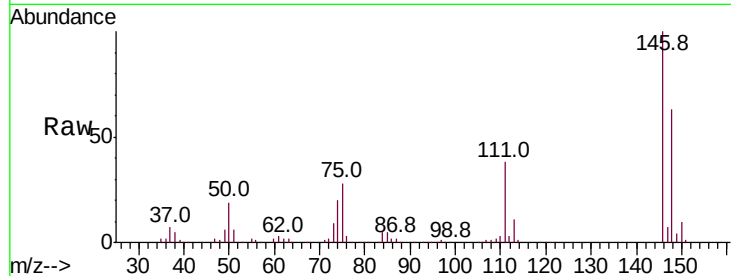




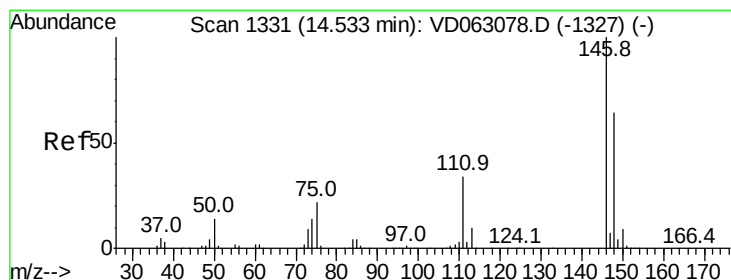
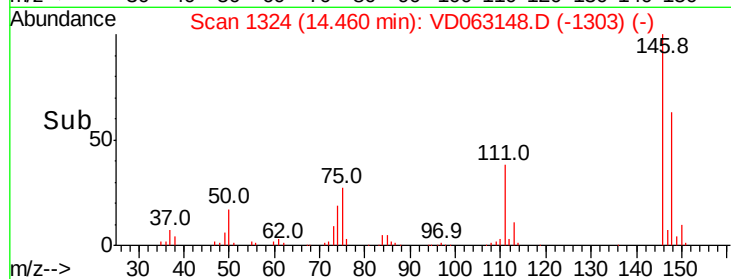
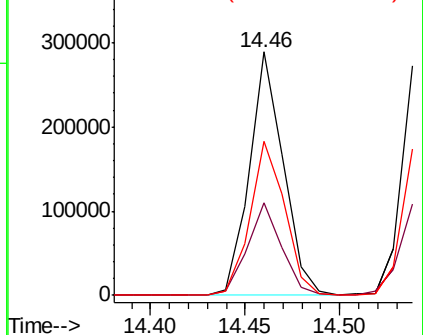
#87
 1,3-Dichlorobenzene
 Concen: 18.778 ug/l
 RT: 14.46 min Scan# 1324
 Delta R.T. 0.00 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0719SBS01

Tot Ion:146 Resp: 358653
 Ion Ratio Lower Upper
 146 100
 111 38.0 18.6 55.6
 148 63.3 32.0 96.0

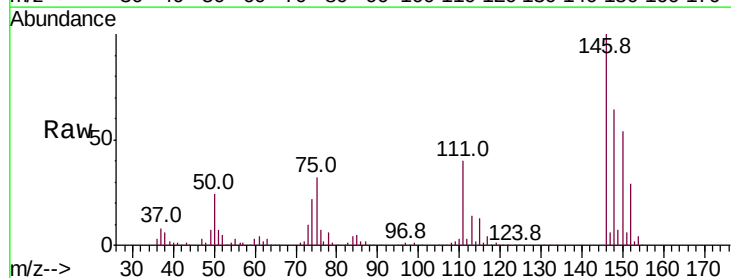


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

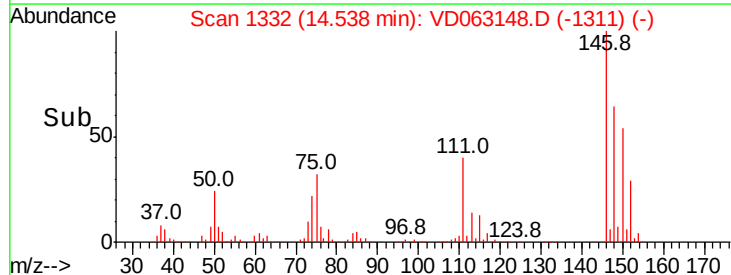
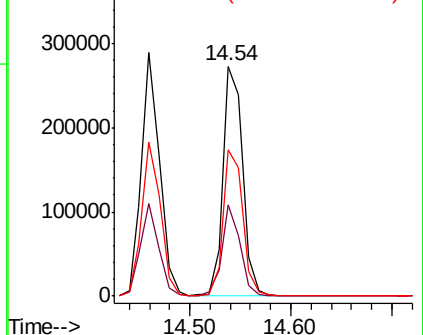


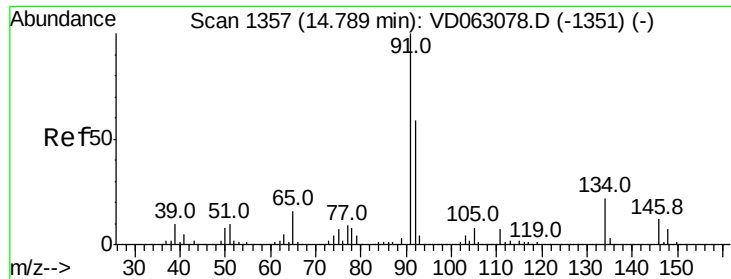
#88
 1,4-Dichlorobenzene
 Concen: 20.267 ug/l
 RT: 14.54 min Scan# 1332
 Delta R.T. 0.01 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

Tgt Ion:146 Resp: 371094
 Ion Ratio Lower Upper
 146 100
 111 40.0 17.0 51.0
 148 63.9 32.0 96.2



Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V





#89

n-Butylbenzene

Concen: 17.475 ug/l

RT: 14.80 min Scan# 1359

Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

VD0719SBS01

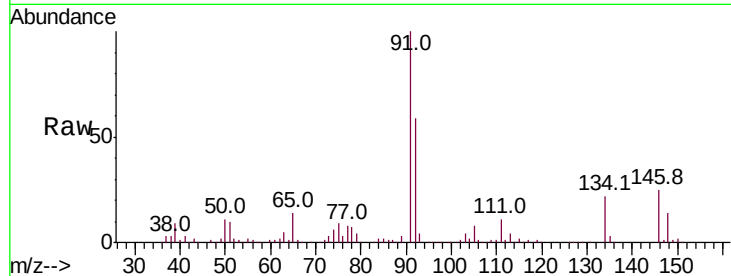
Tot Ion: 91 Resp: 593325

Ion Ratio Lower Upper

91 100

92 59.3 29.4 88.3

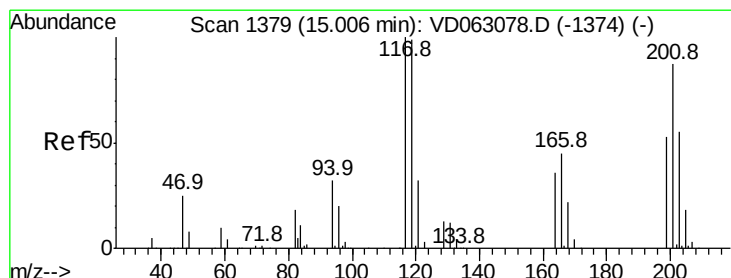
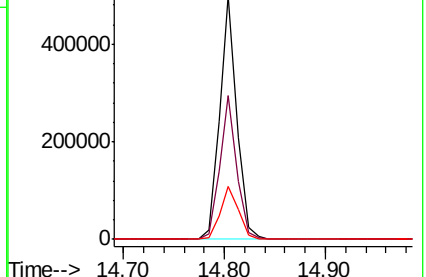
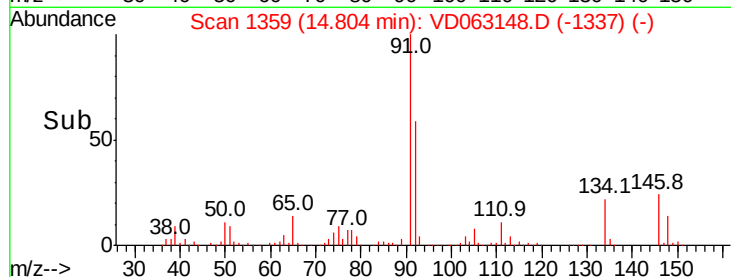
134 21.8 11.3 33.8



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.10 (133.80 to 134.80): V



#90

Hexachloroethane

Concen: 16.794 ug/l

RT: 15.01 min Scan# 1380

Delta R.T. 0.00 min

Lab File: VD063148.D

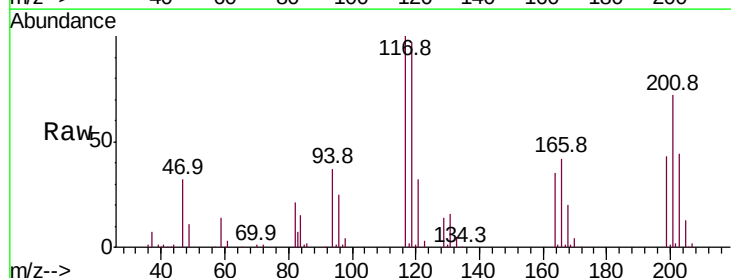
Acq: 19 Jul 2019 12:32

Tgt Ion: 117 Resp: 165383

Ion Ratio Lower Upper

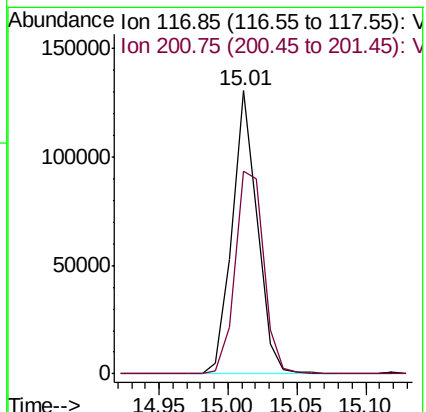
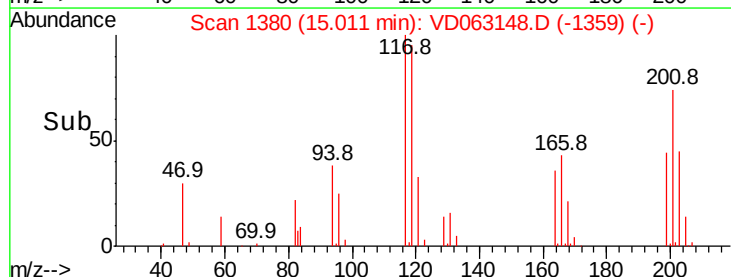
117 100

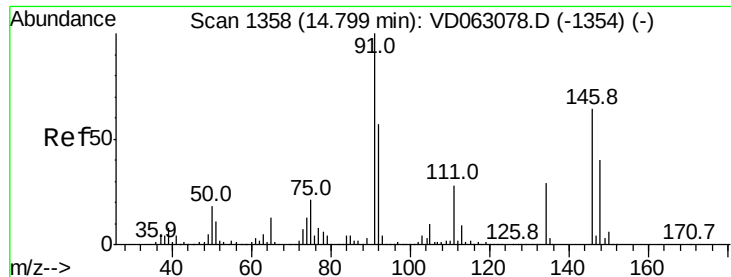
201 71.8 43.4 130.1



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V

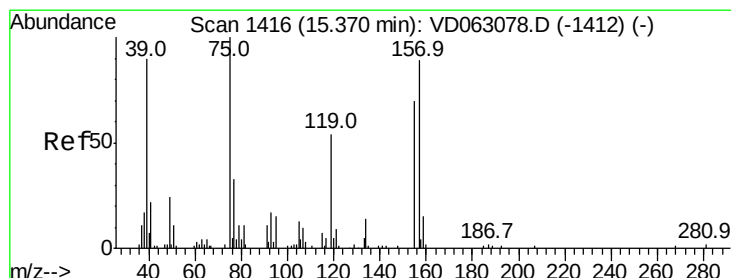
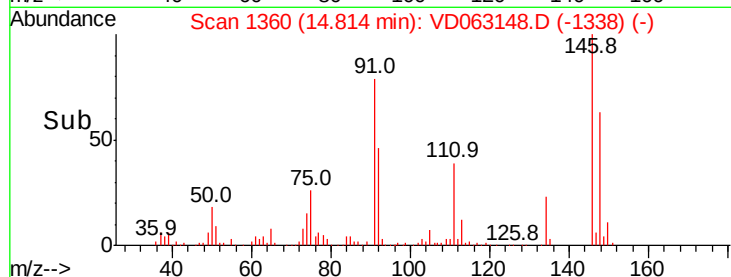
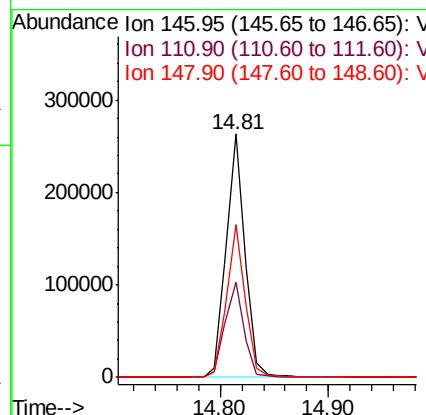
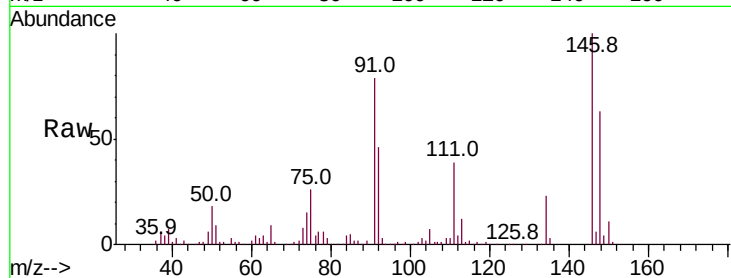




#91
 1,2-Dichlorobenzene
 Concen: 18.683 ug/l
 RT: 14.81 min Scan# 1360
 Delta R.T. 0.01 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

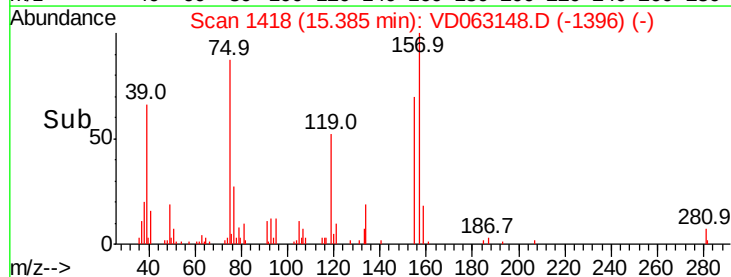
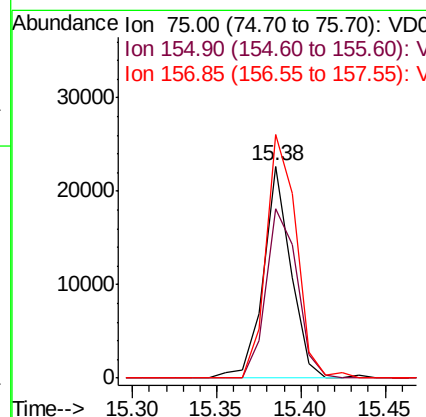
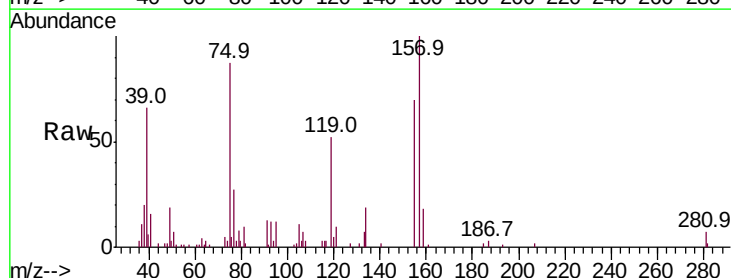
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0719SBS01

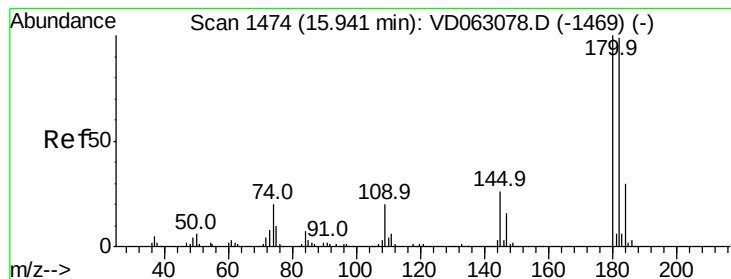
Tot Ion:146 Resp: 317751
 Ion Ratio Lower Upper
 146 100
 111 39.2 21.9 65.5
 148 62.6 31.5 94.5



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.428 ug/l
 RT: 15.38 min Scan# 1418
 Delta R.T. 0.01 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

Tgt Ion: 75 Resp: 25553
 Ion Ratio Lower Upper
 75 100
 155 80.1 34.8 104.3
 157 115.0 44.7 134.1





#93

1,2,4-Trichlorobenzene

Concen: 19.376 ug/l

RT: 15.95 min Scan# 1475

Delta R.T. 0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

VD0719SBS01

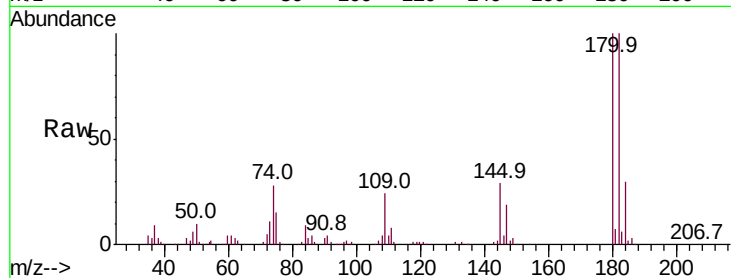
Tot Ion:180 Resp: 247584

Ion Ratio Lower Upper

180 100

182 100.0 49.5 148.3

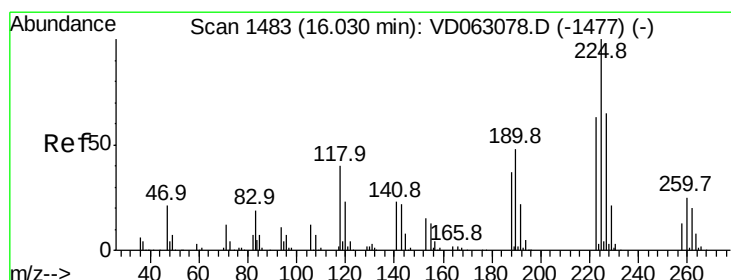
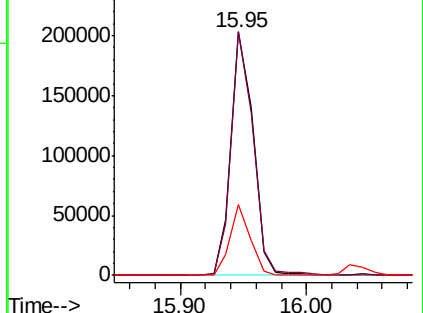
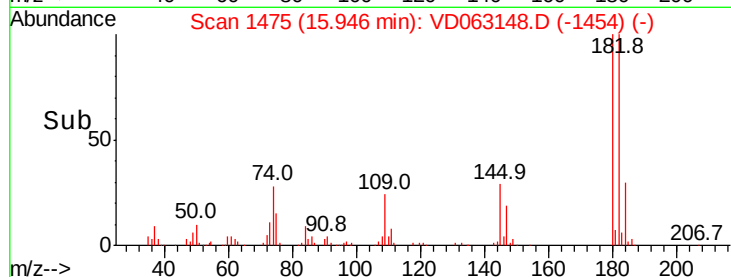
145 29.0 12.8 38.4



Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V



#94

Hexachlorobutadiene

Concen: 17.978 ug/l

RT: 16.04 min Scan# 1485

Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

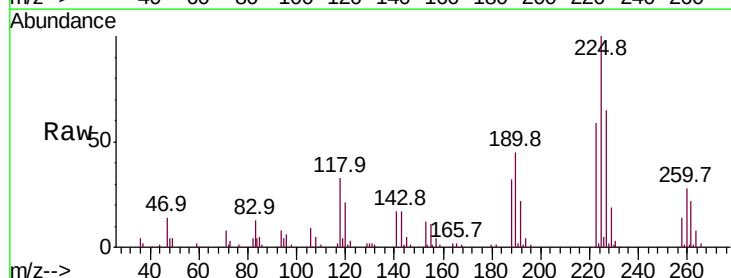
Tgt Ion:225 Resp: 169315

Ion Ratio Lower Upper

225 100

223 58.8 31.4 94.2

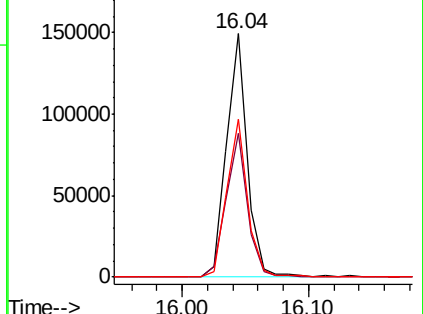
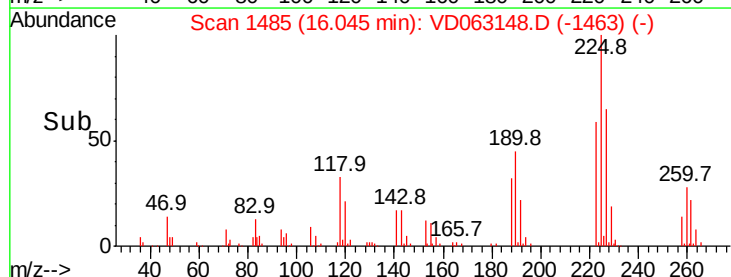
227 64.7 32.6 97.8

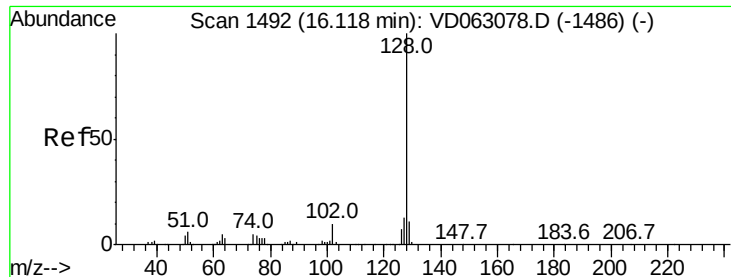


Abundance Ion 224.75 (224.45 to 225.45): V

Ion 222.75 (222.45 to 223.45): V

Ion 226.75 (226.45 to 227.45): V

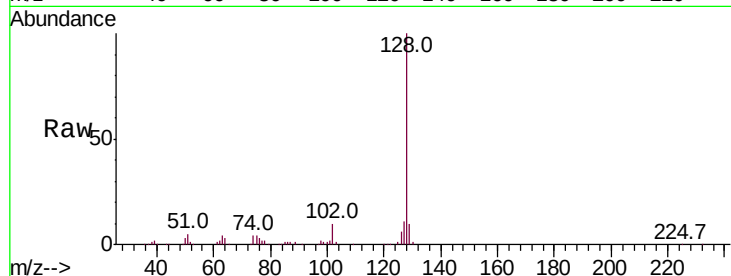




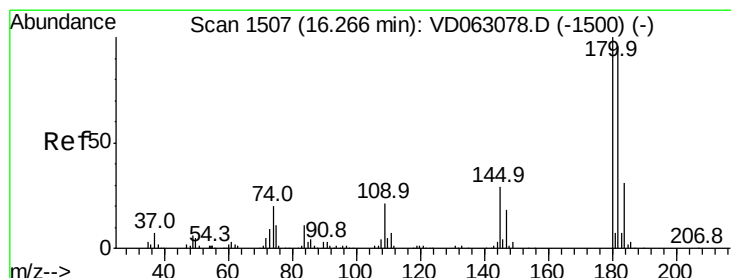
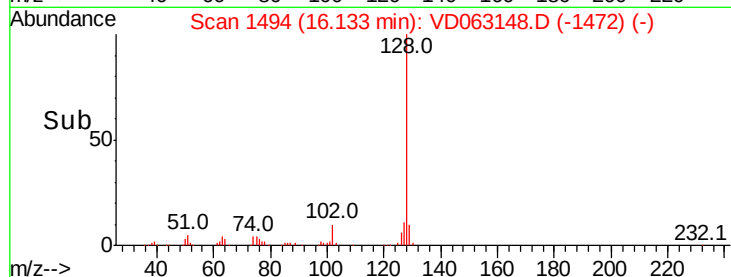
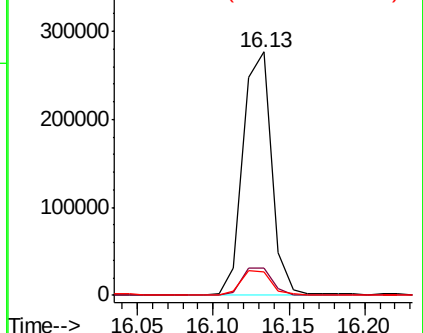
#95
Naphthalene
Concen: 19.508 ug/l
RT: 16.13 min Scan# 1494
Delta R.T. 0.01 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

Instrument :
MSVOA_D
ClientSampleId :
VD0719SBS01

Tot Ion:128 Resp: 364620
Ion Ratio Lower Upper
128 100
127 11.3 10.7 16.1
129 9.6 8.7 13.1

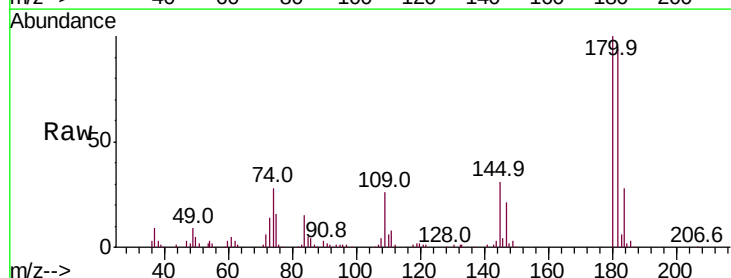


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 19.095 ug/l
RT: 16.27 min Scan# 1508
Delta R.T. 0.00 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

Tgt Ion:180 Resp: 196275
Ion Ratio Lower Upper
180 100
182 94.0 47.9 143.6
145 31.0 14.4 43.4



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

