

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD073119\
 Data File : VD063270.D
 Acq On : 31 Jul 2019 11:16
 Operator : VA/AP
 Sample : VD0731SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0731SBS01

Quant Time: Aug 01 04:00:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 30 03:04:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	1161020	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	1554472	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	1326129	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	694014	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	617804	47.96	ug/l	0.00
Spiked Amount			Recovery	=	95.92%	
35) Dibromofluoromethane	6.92	113	642891	48.44	ug/l	0.02
Spiked Amount			Recovery	=	96.88%	
50) Toluene-d8	10.41	98	1433942	48.28	ug/l	0.00
Spiked Amount			Recovery	=	96.56%	
62) 4-Bromofluorobenzene	13.55	95	620110	45.81	ug/l	0.00
Spiked Amount			Recovery	=	91.62%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	309700	21.822	ug/l	92
3) Chloromethane	1.75	50	225584	20.459	ug/l	92
4) Vinyl Chloride	1.84	62	236828	20.748	ug/l	97
5) Bromomethane	2.14	94	102018	17.721	ug/l	89
6) Chloroethane	2.25	64	101984	19.351	ug/l	90
7) Trichlorofluoromethane	2.52	101	439067	19.827	ug/l	99
8) Diethyl Ether	2.88	74	51919	16.752	ug/l	83
9) 1,1,2-Trichlorotrifluoroet	3.13	101	248205	20.234	ug/l	98
10) Methyl Iodide	3.30	142	306469	17.295	ug/l	92
11) Tert butyl alcohol	4.09	59	54957	97.208	ug/l	97
12) 1,1-Dichloroethene	3.11	96	185128	20.558	ug/l	82
13) Acrolein	3.02	56	50739	93.254	ug/l	94
14) Allyl chloride	3.61	41	275338	19.193	ug/l	88
15) Acrylonitrile	4.20	53	148306	101.183	ug/l	87
16) Acetone	3.22	43	251611	100.242	ug/l	98
17) Carbon Disulfide	3.36	76	609222	20.212	ug/l	95
18) Methyl Acetate	3.64	43	92853	19.259	ug/l	98
19) Methyl tert-butyl Ether	4.23	73	390343	19.189	ug/l	100
20) Methylene Chloride	3.80	84	192496	18.973	ug/l	92
21) trans-1,2-Dichloroethene	4.21	96	201948	19.986	ug/l	89
22) Diisopropyl ether	5.11	45	559930	19.536	ug/l	93
23) Vinyl Acetate	5.04	43	1803077	102.342	ug/l	100
24) 1,1-Dichloroethane	4.98	63	361304	19.735	ug/l	98
25) 2-Butanone	6.07	43	248294	98.567	ug/l	98
26) 2,2-Dichloropropane	6.02	77	362277	19.202	ug/l	96
27) cis-1,2-Dichloroethene	6.03	96	212335	19.600	ug/l	93
28) Bromochloromethane	6.42	49	137566	18.860	ug/l	89
29) Tetrahydrofuran	6.46	42	116249	97.472	ug/l	99
30) Chloroform	6.66	83	452550	19.919	ug/l	97
31) Cyclohexane	6.94	56	220571	19.221	ug/l	96
32) 1,1,1-Trichloroethane	6.86	97	426487	19.407	ug/l	99
36) 1,1-Dichloropropene	7.13	75	296434	20.895	ug/l	98
37) Ethyl Acetate	6.18	43	131767	20.674	ug/l #	95
38) Carbon Tetrachloride	7.10	117	452666	21.195	ug/l	93

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Quant Time: Aug 01 04:00:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.85	83	232609	19.680	ug/l	92
40) Benzene	7.44	78	611141	20.555	ug/l	99
41) Methacrylonitrile	6.45	41	149852	19.656	ug/l #	78
42) 1,2-Dichloroethane	7.57	62	328997	20.879	ug/l	96
43) Isopropyl Acetate	9.24	43	171756	21.097	ug/l #	96
44) Trichloroethene	8.54	130	244380	20.284	ug/l	90
45) 1,2-Dichloropropane	8.93	63	146201	19.346	ug/l	92
46) Dibromomethane	9.06	93	127532	20.296	ug/l	93
47) Bromodichloromethane	9.37	83	327235	20.429	ug/l	97
48) Methyl methacrylate	9.12	41	111749	21.164	ug/l	93
49) 1,4-Dioxane	9.08	88	21361	475.403	ug/l #	67
51) 4-Methyl-2-Pentanone	10.30	43	590193	106.594	ug/l	95
52) Toluene	10.51	92	422180	21.349	ug/l	99
53) t-1,3-Dichloropropene	10.91	75	280797	20.334	ug/l	91
54) cis-1,3-Dichloropropene	10.03	75	296823	20.452	ug/l	93
55) 1,1,2-Trichloroethane	11.19	97	134972	20.209	ug/l	93
56) Ethyl methacrylate	11.04	69	158627	21.690	ug/l	95
57) 1,3-Dichloropropane	11.40	76	208405	19.805	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.86	63	371130	97.526	ug/l	98
59) 2-Hexanone	11.53	43	420287	105.333	ug/l	98
60) Dibromochloromethane	11.68	129	254387	20.176	ug/l	96
61) 1,2-Dibromoethane	11.81	107	172593	20.943	ug/l	98
64) Tetrachloroethene	11.25	164	214796	20.331	ug/l	95
65) Chlorobenzene	12.40	112	510081	19.997	ug/l	100
66) 1,1,1,2-Tetrachloroethane	12.50	131	231162	20.574	ug/l	97
67) Ethyl Benzene	12.51	91	879421	20.295	ug/l	97
68) m/p-Xylenes	12.66	106	603794	37.996	ug/l	93
69) o-Xylene	13.05	106	287541	19.704	ug/l	93
70) Styrene	13.07	104	538263	20.799	ug/l	98
71) Bromoform	13.23	173	166299	20.353	ug/l	98
73) Isopropylbenzene	13.40	105	935609	21.479	ug/l	97
74) N-amyl acetate	13.26	43	228483	19.842	ug/l	98
75) 1,1,2,2-Tetrachloroethane	13.70	83	152941	20.670	ug/l	97
76) 1,2,3-Trichloropropane	13.73	75	171886	20.620	ug/l	97
77) Bromobenzene	13.67	156	253161	20.402	ug/l	89
78) n-propylbenzene	13.77	91	1028861	19.849	ug/l	93
79) 2-Chlorotoluene	13.83	91	627359	20.887	ug/l	93
80) 1,3,5-Trimethylbenzene	13.93	105	815835	21.716	ug/l	97
81) trans-1,4-Dichloro-2-buten	13.47	75	44430	19.194	ug/l	94
82) 4-Chlorotoluene	13.94	91	776517	21.968	ug/l	97
83) tert-Butylbenzene	14.19	119	845802	19.717	ug/l	91
84) 1,2,4-Trimethylbenzene	14.24	105	684892	17.625	ug/l	100
85) sec-Butylbenzene	14.37	105	949439	21.008	ug/l	97
86) p-Isopropyltoluene	14.48	119	860164	19.941	ug/l	96
87) 1,3-Dichlorobenzene	14.45	146	452750	20.603	ug/l	97
88) 1,4-Dichlorobenzene	14.53	146	429376	19.323	ug/l	97
89) n-Butylbenzene	14.80	91	811981	21.794	ug/l	98
90) Hexachloroethane	15.01	117	222752	19.820	ug/l	91
91) 1,2-Dichlorobenzene	14.81	146	406661	21.240	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	15.38	75	28917	19.187	ug/l	90

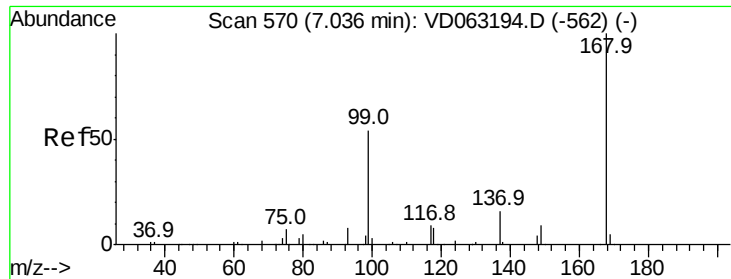
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD073119\
 Data File : VD063270.D
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	300007	19.752	ug/l	98
94) Hexachlorobutadiene	16.03	225	221075	20.085	ug/l	89
95) Naphthalene	16.12	128	392675	18.292	ug/l	96
96) 1,2,3-Trichlorobenzene	16.27	180	233752	19.481	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.01 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

Instrument :

MSVOA_D

ClientSampleId :

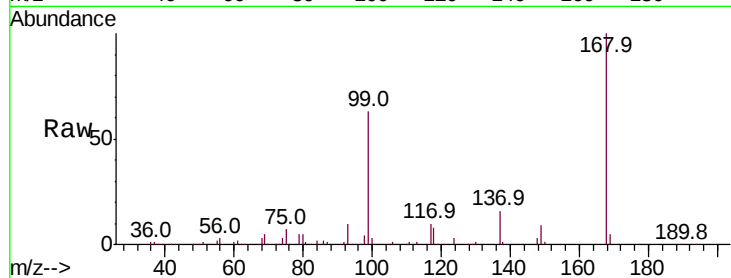
VD0731SBS01

Tot Ion:168 Resp: 1161020

Ion Ratio Lower Upper

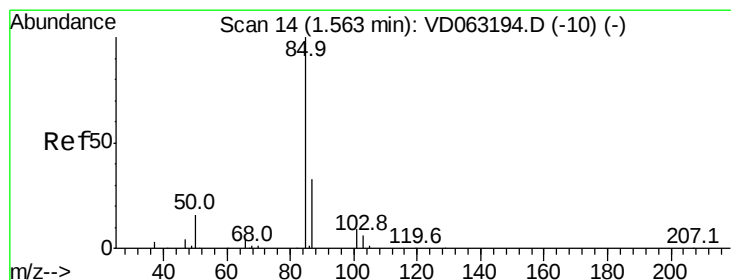
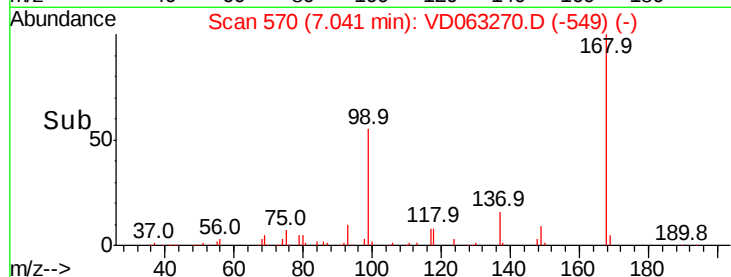
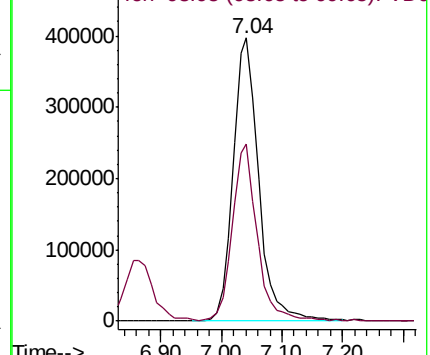
168 100

99 62.6 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 21.822 ug/l

RT: 1.57 min Scan# 14

Delta R.T. 0.01 min

Lab File: VD063270.D

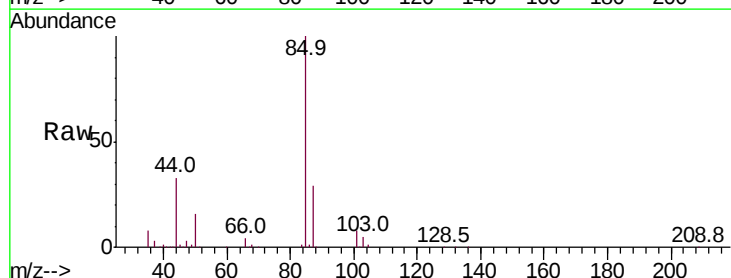
Acq: 31 Jul 2019 11:16

Tgt Ion: 85 Resp: 309700

Ion Ratio Lower Upper

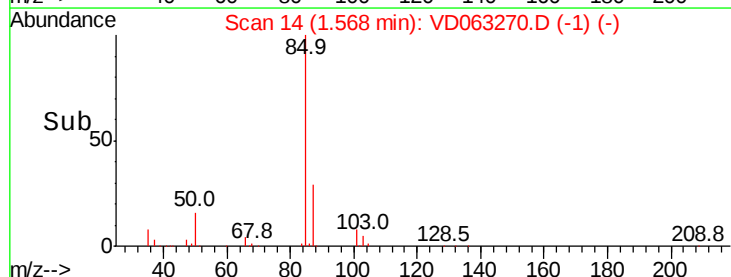
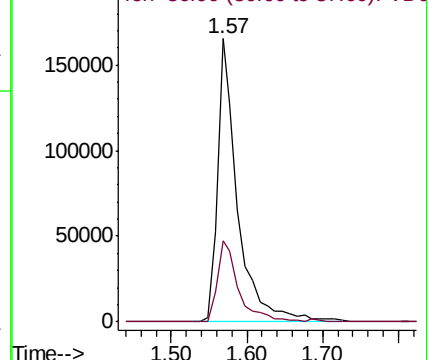
85 100

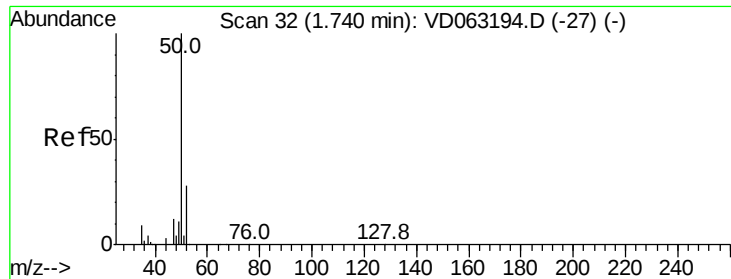
87 28.8 16.6 49.7



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 20.459 ug/l

RT: 1.75 min Scan# 32

Delta R.T. 0.01 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

Instrument :

MSVOA_D

ClientSampleId :

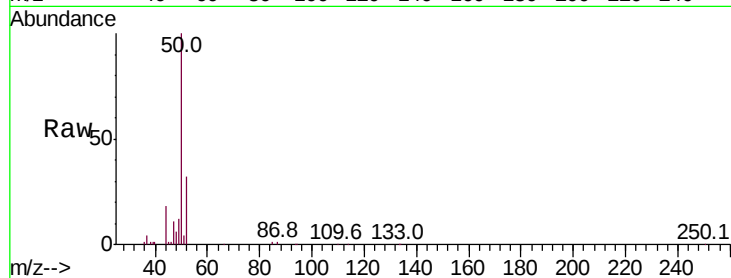
VD0731SBS01

Tot Ion: 50 Resp: 225584

Ion Ratio Lower Upper

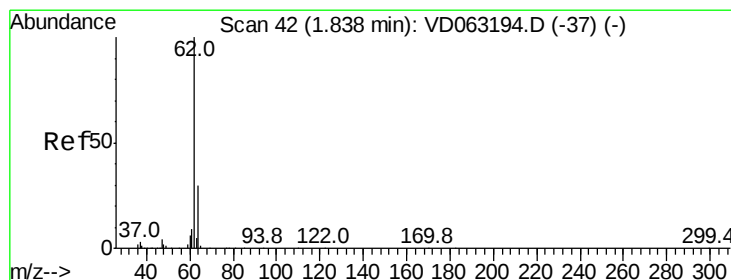
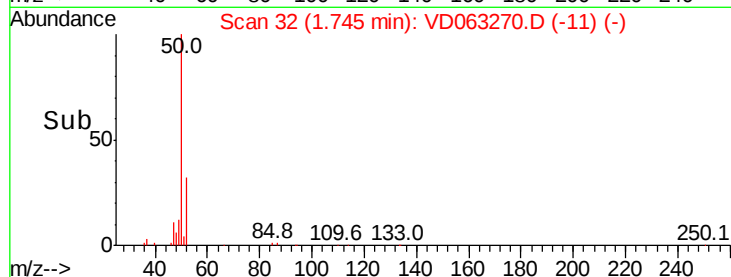
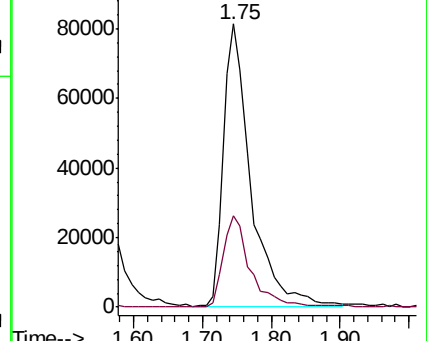
50 100

52 32.5 22.6 34.0



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 20.748 ug/l

RT: 1.84 min Scan# 42

Delta R.T. 0.01 min

Lab File: VD063270.D

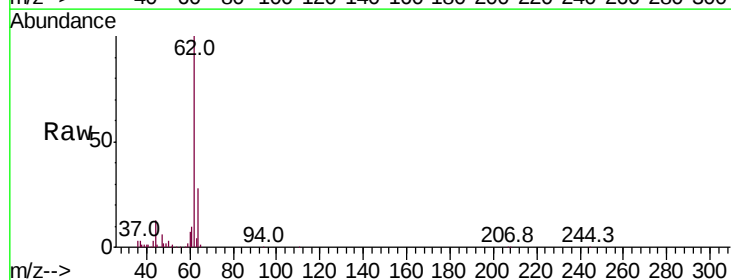
Acq: 31 Jul 2019 11:16

Tgt Ion: 62 Resp: 236828

Ion Ratio Lower Upper

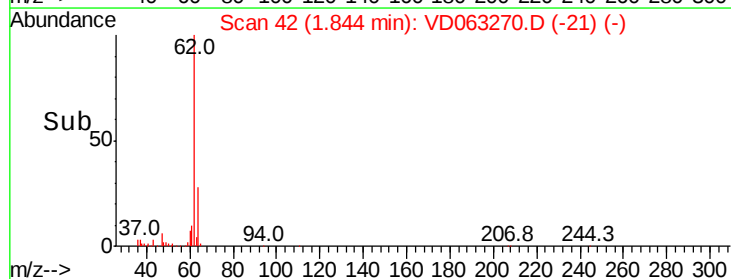
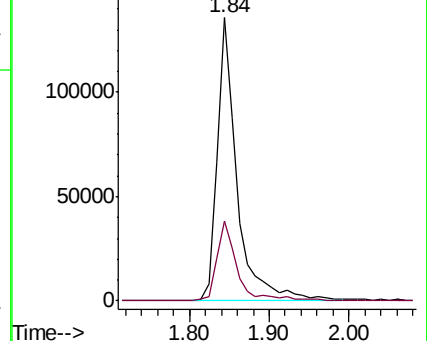
62 100

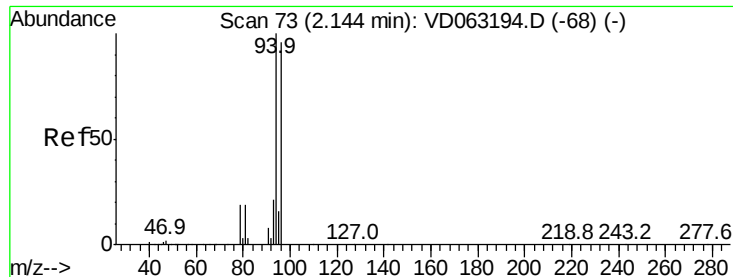
64 28.2 24.1 36.1



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 17.721 ug/l

RT: 2.14 min Scan# 72

Delta R.T. -0.00 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

Instrument :

MSVOA_D

ClientSampleId :

VD0731SBS01

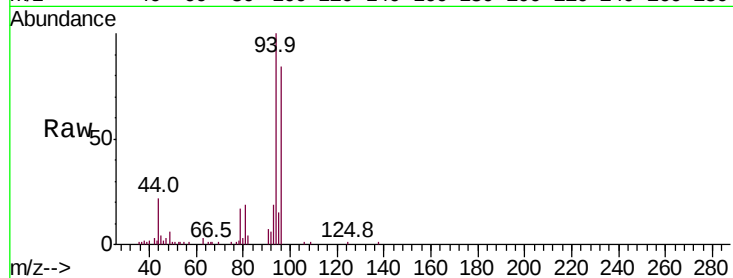
Tot Ion: 94 Resp: 102018

Ion Ratio Lower Upper

94 100

96 83.6 76.4 114.6

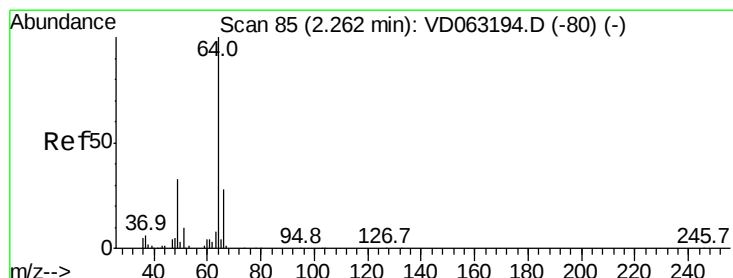
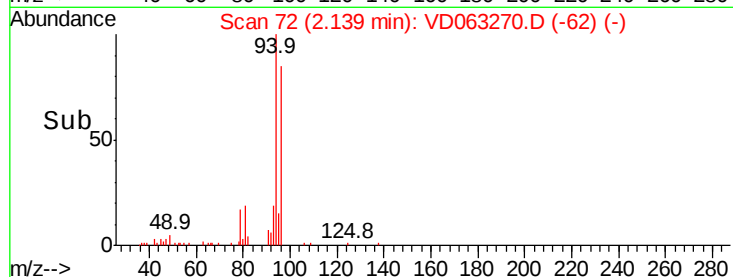
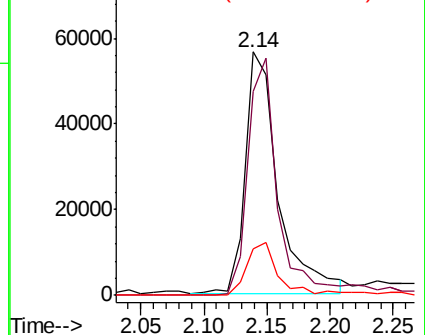
93 19.0 17.3 25.9



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: 19.351 ug/l

RT: 2.25 min Scan# 83

Delta R.T. -0.01 min

Lab File: VD063270.D

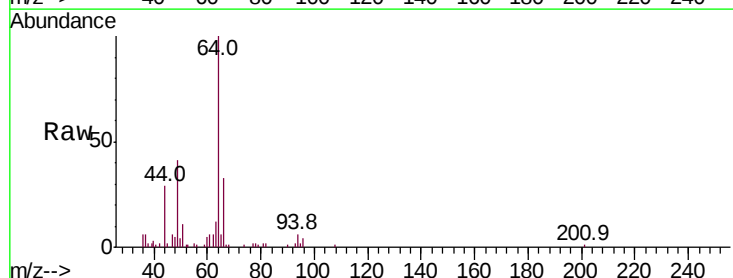
Acq: 31 Jul 2019 11:16

Tgt Ion: 64 Resp: 101984

Ion Ratio Lower Upper

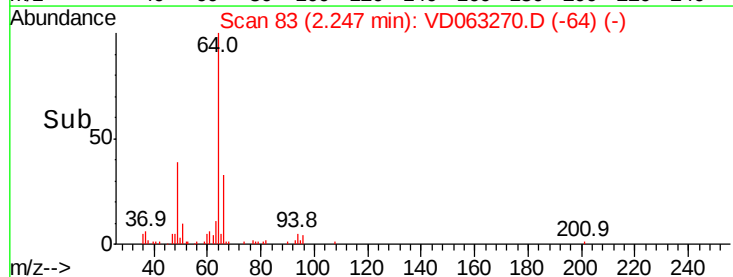
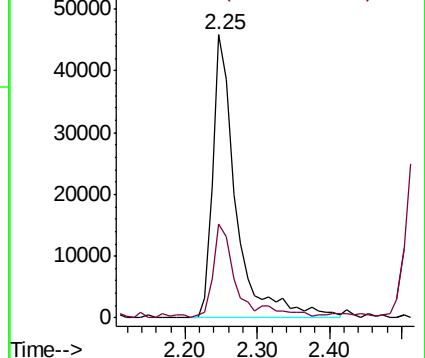
64 100

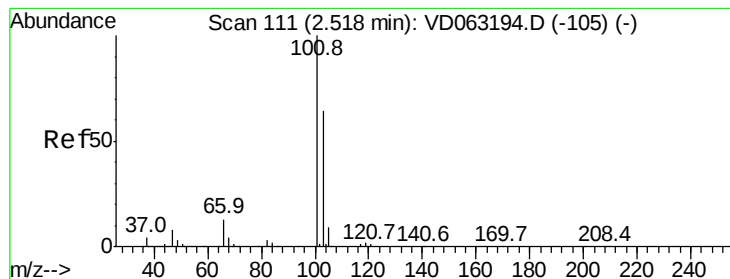
66 33.0 22.2 33.2



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



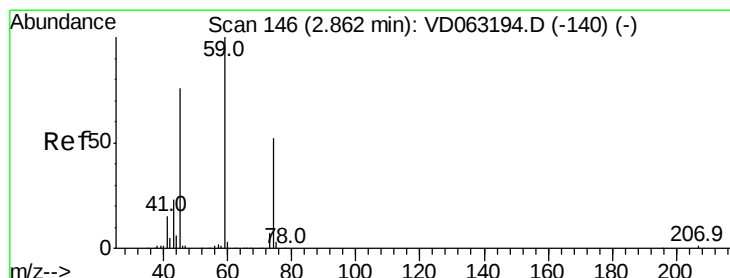
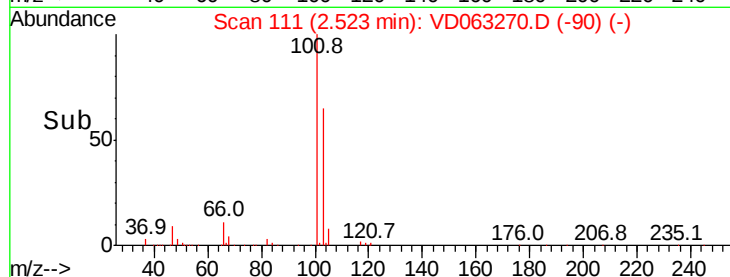
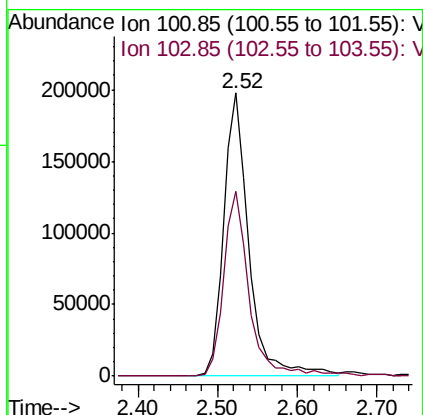
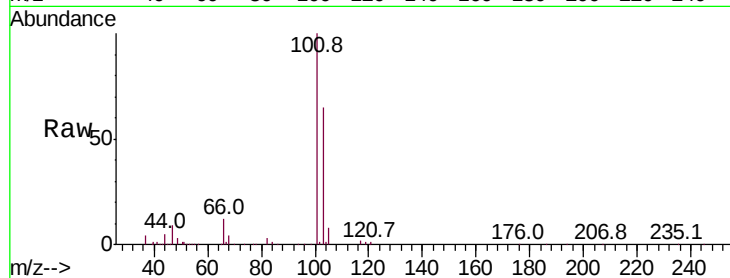


#7

Trichlorofluoromethane
 Concen: 19.827 ug/l
 RT: 2.52 min Scan# 111
 Delta R.T. 0.01 min
 Lab File: VD063270.D
 Acq: 31 Jul 2019 11:16

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0731SBS01

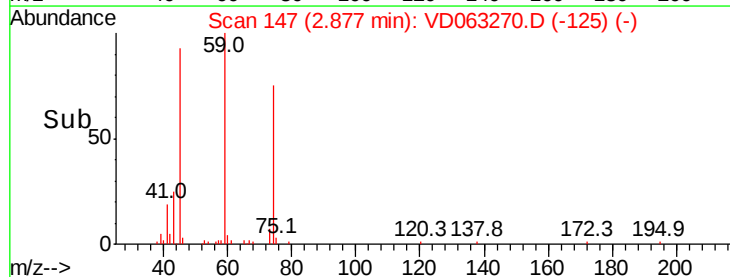
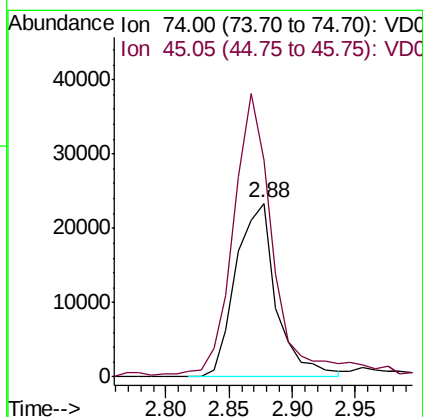
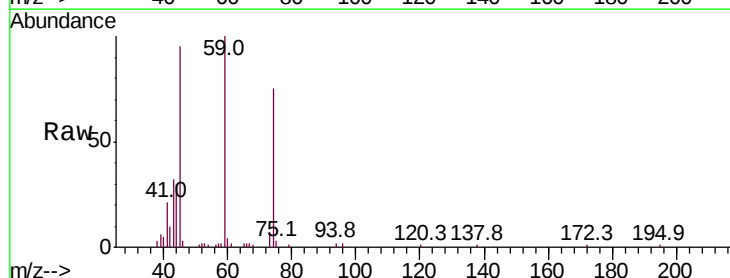
Tot Ion:101 Resp: 439067
 Ion Ratio Lower Upper
 101 100
 103 65.3 51.5 77.3

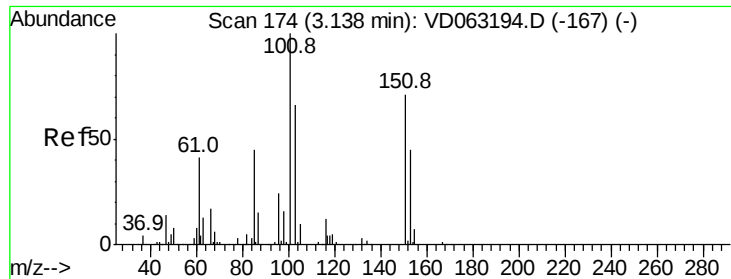


#8

Diethyl Ether
 Concen: 16.752 ug/l
 RT: 2.88 min Scan# 147
 Delta R.T. 0.02 min
 Lab File: VD063270.D
 Acq: 31 Jul 2019 11:16

Tgt Ion: 74 Resp: 51919
 Ion Ratio Lower Upper
 74 100
 45 125.3 73.6 220.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.234 ug/l

RT: 3.13 min Scan# 173

Delta R.T. -0.00 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

Instrument :

MSVOA_D

ClientSampleId :

VD0731SBS01

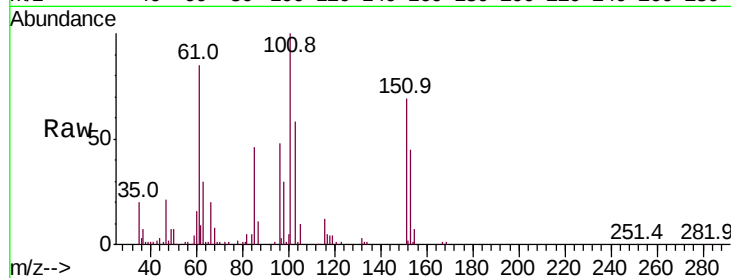
Tot Ion:101 Resp: 248205

Ion Ratio Lower Upper

101 100

85 45.5 36.1 54.1

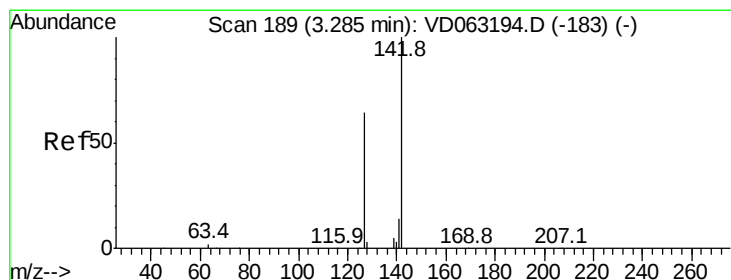
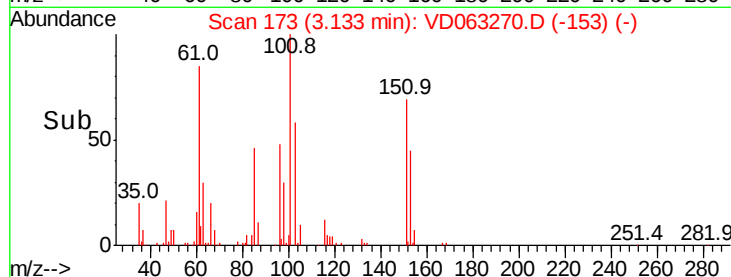
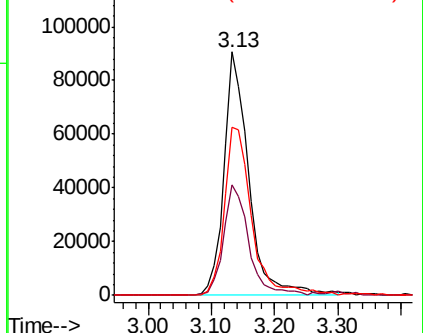
151 68.9 57.1 85.7



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 17.295 ug/l

RT: 3.30 min Scan# 190

Delta R.T. 0.02 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

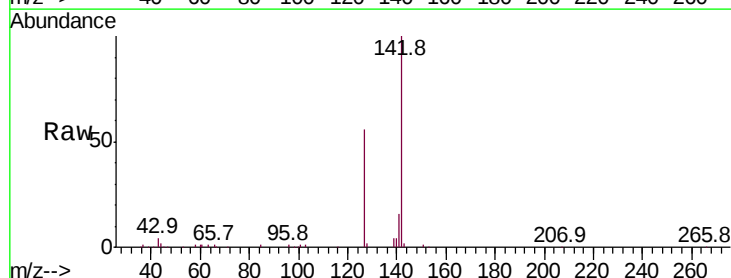
Tgt Ion:142 Resp: 306469

Ion Ratio Lower Upper

142 100

127 56.5 50.8 76.2

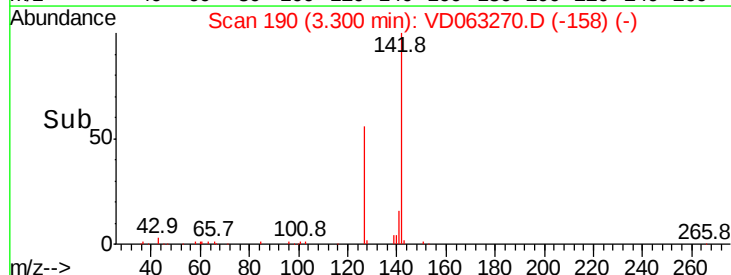
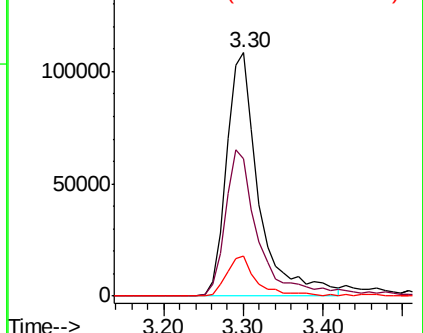
141 16.5 11.4 17.2

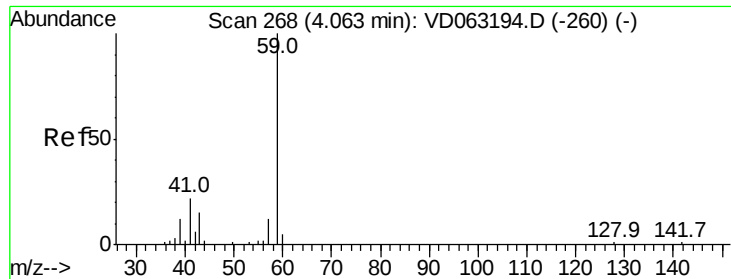


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

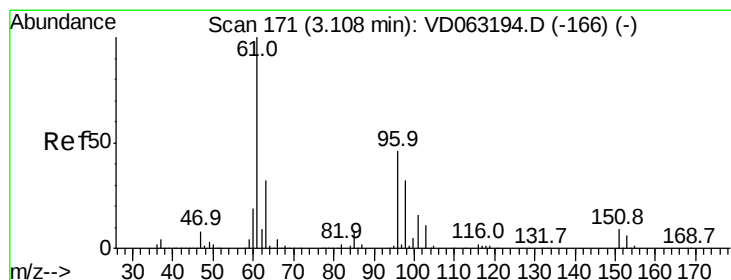
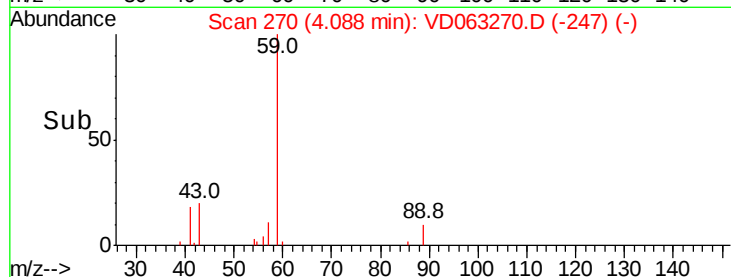
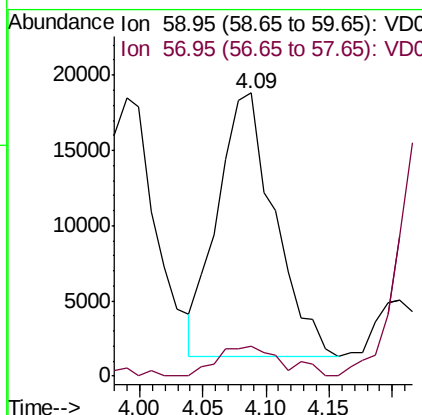
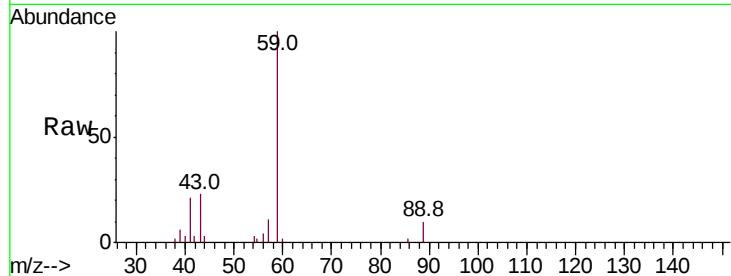




#11
Tert butyl alcohol
Concen: 97.208 ug/l
RT: 4.09 min Scan# 270
Delta R.T. 0.02 min
Lab File: VD063270.D
Acq: 31 Jul 2019 11:16

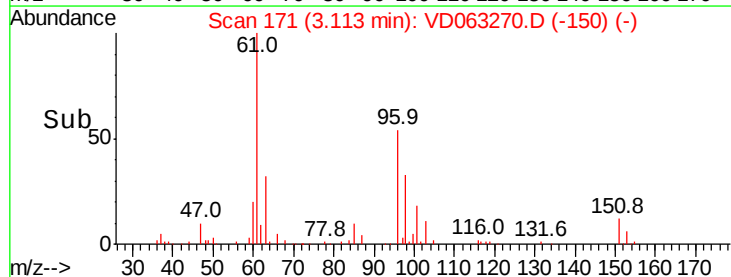
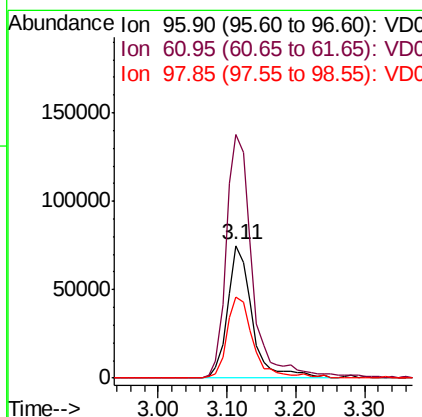
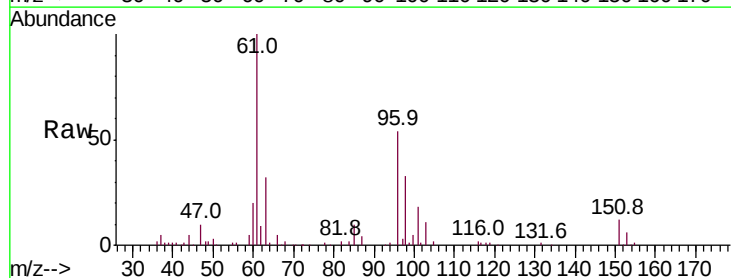
Instrument :
MSVOA_D
ClientSampleId :
VD0731SBS01

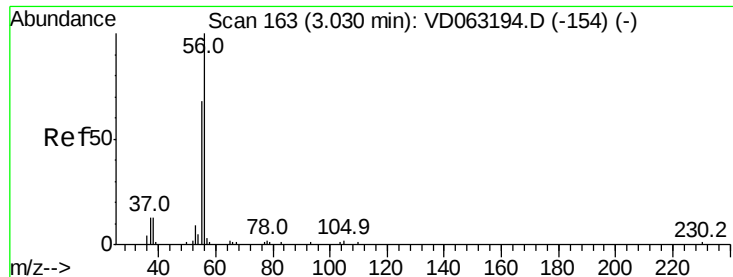
Tot Ion: 59 Resp: 54957
Ion Ratio Lower Upper
59 100
57 10.7 9.6 14.4



#12
1,1-Dichloroethene
Concen: 20.558 ug/l
RT: 3.11 min Scan# 171
Delta R.T. 0.01 min
Lab File: VD063270.D
Acq: 31 Jul 2019 11:16

Tgt Ion: 96 Resp: 185128
Ion Ratio Lower Upper
96 100
61 183.7 173.7 260.5
98 61.5 55.8 83.8





#13

Acrolein

Concen: 93.254 ug/l

RT: 3.02 min Scan# 162

Delta R.T. -0.00 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

Instrument :

MSVOA_D

ClientSampleId :

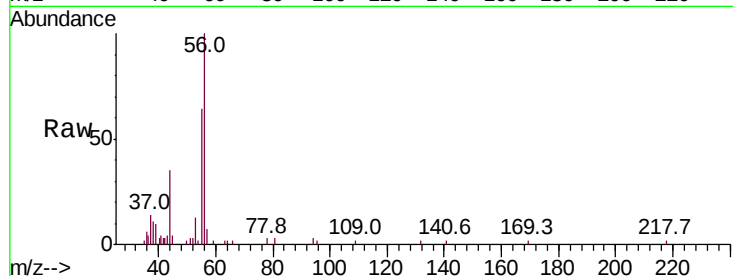
VD0731SBS01

Tot Ion: 56 Resp: 50739

Ion Ratio Lower Upper

56 100

55 64.4 55.3 82.9



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

3.02

20000

15000

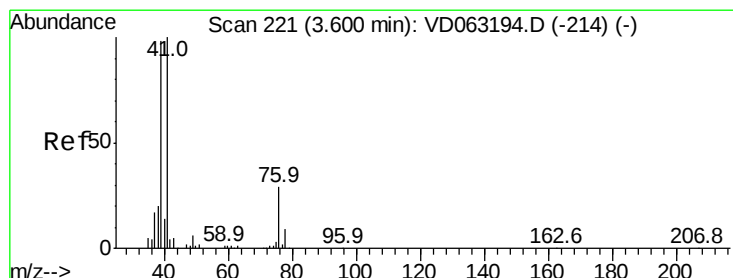
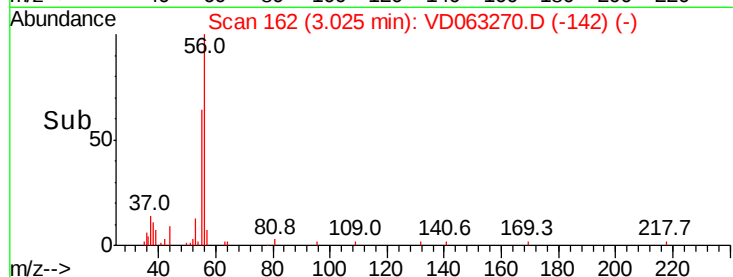
10000

5000

0

Time-->

2.90 3.00 3.10 3.20



#14

Allyl chloride

Concen: 19.193 ug/l

RT: 3.61 min Scan# 221

Delta R.T. 0.01 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

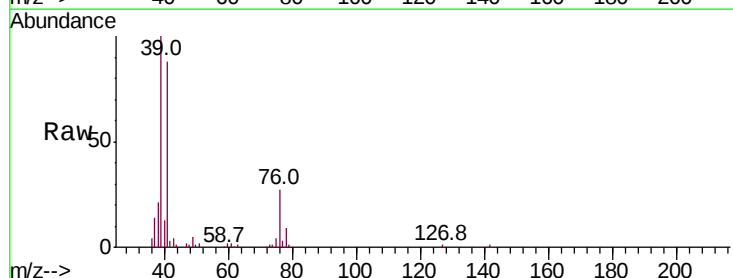
Tgt Ion: 41 Resp: 275338

Ion Ratio Lower Upper

41 100

39 113.6 78.6 117.8

76 30.5 24.5 36.7



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

150000

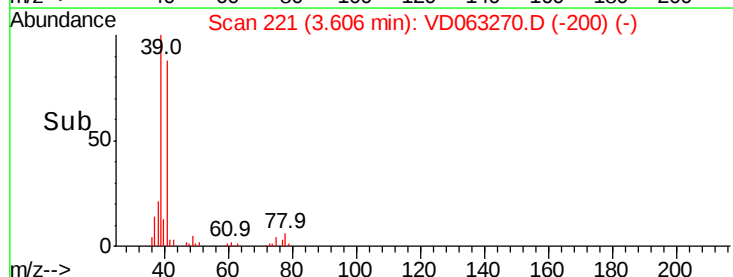
100000

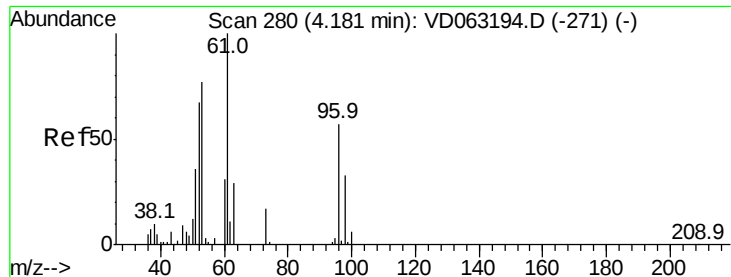
50000

0

Time-->

3.50 3.60 3.70 3.80





#15

Acrylonitrile

Concen: 101.183 ug/l

RT: 4.20 min Scan# 281

Delta R.T. 0.02 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

Instrument :

MSVOA_D

ClientSampleId :

VD0731SBS01

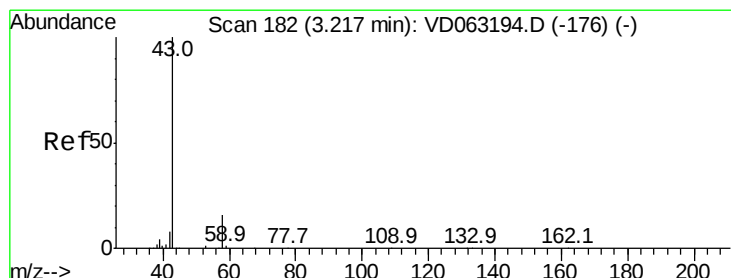
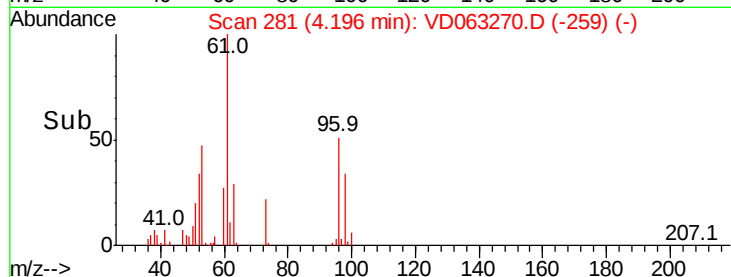
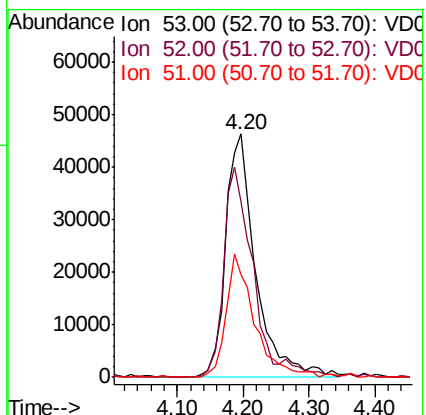
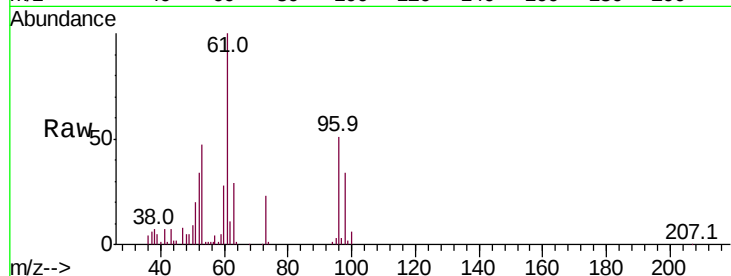
Tot Ion: 53 Resp: 148306

Ion Ratio Lower Upper

53 100

52 72.0 69.7 104.5

51 42.3 37.4 56.0



#16

Acetone

Concen: 100.242 ug/l

RT: 3.22 min Scan# 182

Delta R.T. 0.01 min

Lab File: VD063270.D

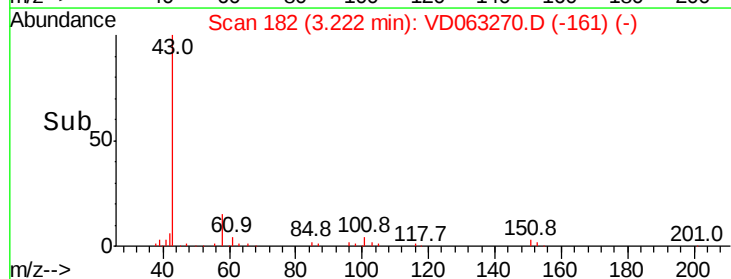
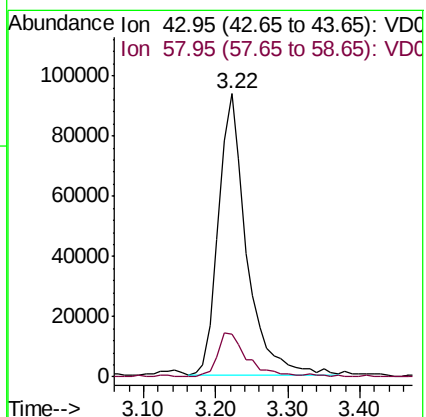
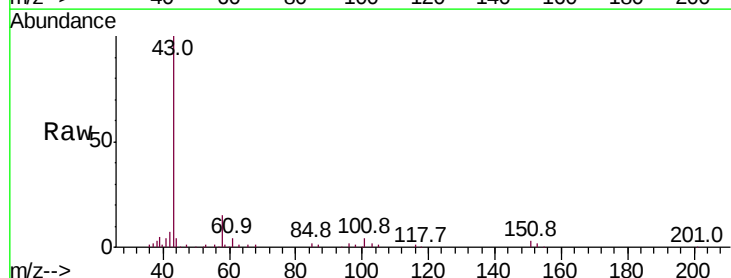
Acq: 31 Jul 2019 11:16

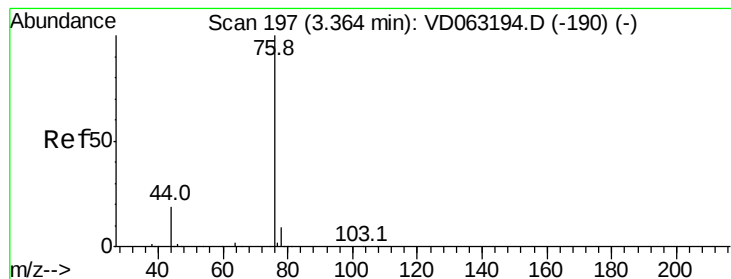
Tgt Ion: 43 Resp: 251611

Ion Ratio Lower Upper

43 100

58 15.2 13.0 19.4





#17

Carbon Disulfide

Concen: 20.212 ug/l

RT: 3.36 min Scan# 196

Delta R.T. -0.00 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

Instrument :

MSVOA_D

ClientSampleId :

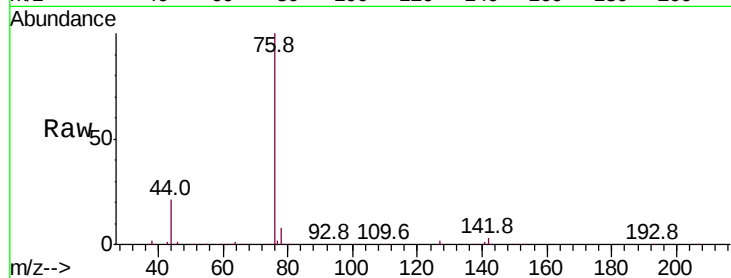
VD0731SBS01

Tot Ion: 76 Resp: 609222

Ion Ratio Lower Upper

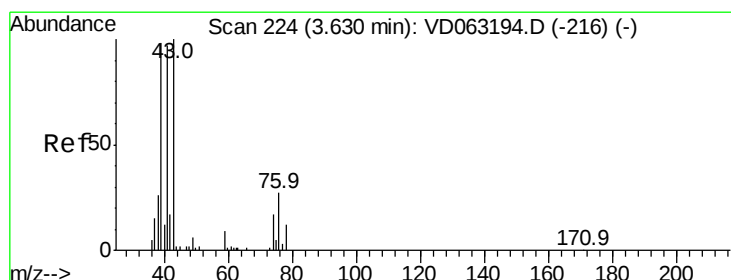
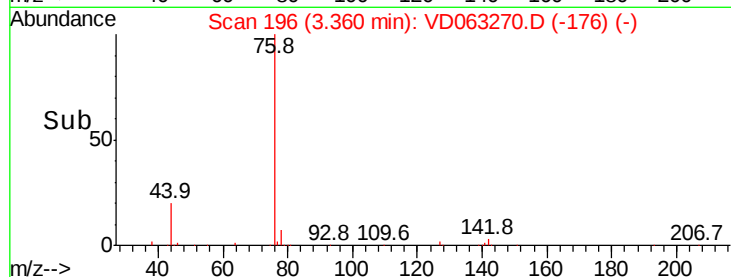
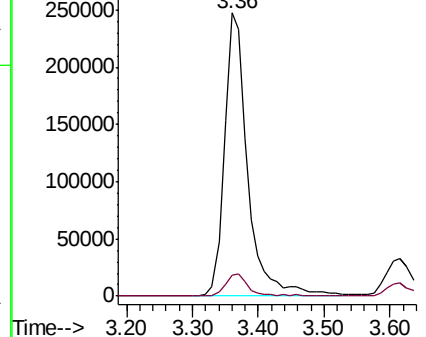
76 100

78 7.6 7.4 11.2



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 19.259 ug/l

RT: 3.64 min Scan# 224

Delta R.T. 0.01 min

Lab File: VD063270.D

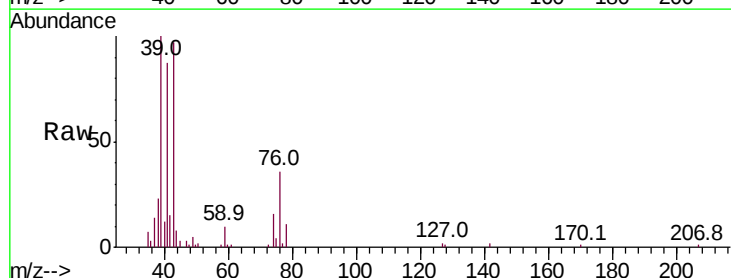
Acq: 31 Jul 2019 11:16

Tgt Ion: 43 Resp: 92853

Ion Ratio Lower Upper

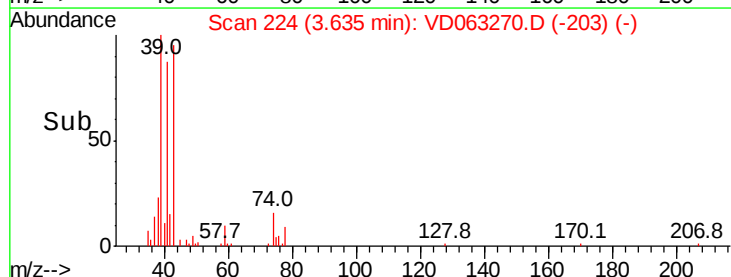
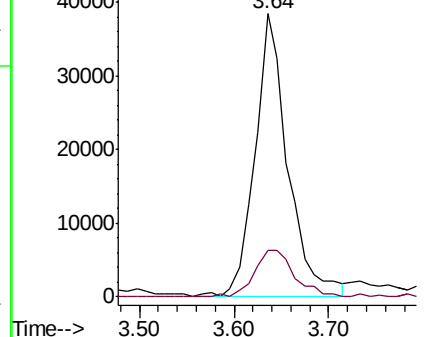
43 100

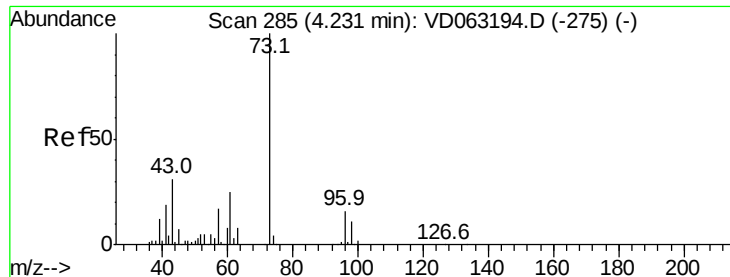
74 16.5 13.8 20.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC



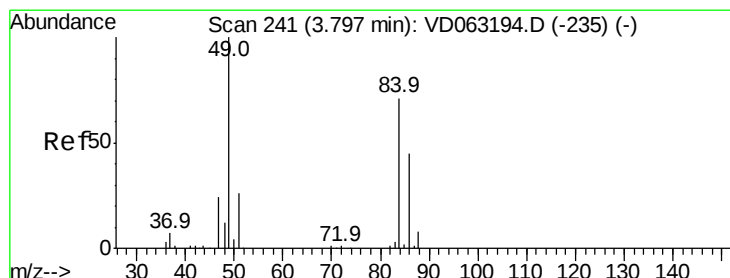
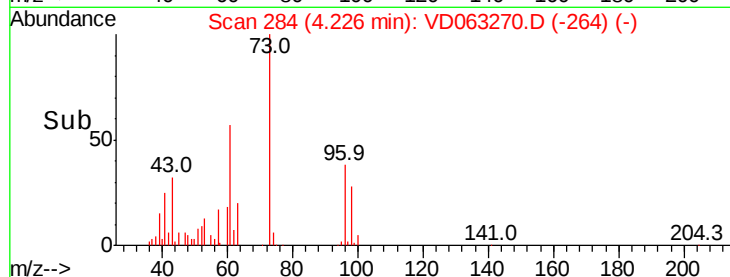
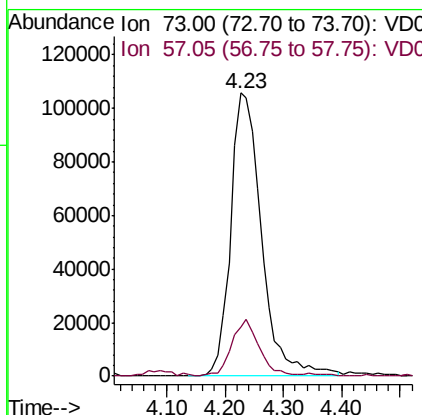
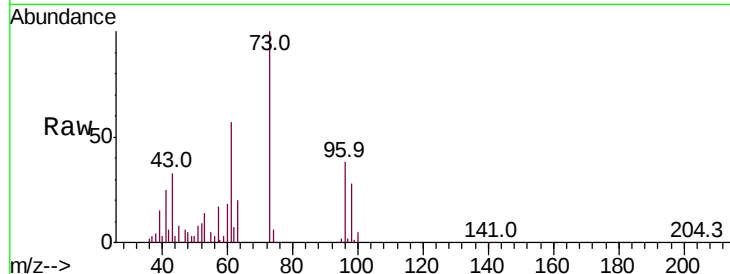


#19

Methyl tert-butyl Ether
 Concen: 19.189 ug/l
 RT: 4.23 min Scan# 284
 Delta R.T. -0.00 min
 Lab File: VD063270.D
 Acq: 31 Jul 2019 11:16

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0731SBS01

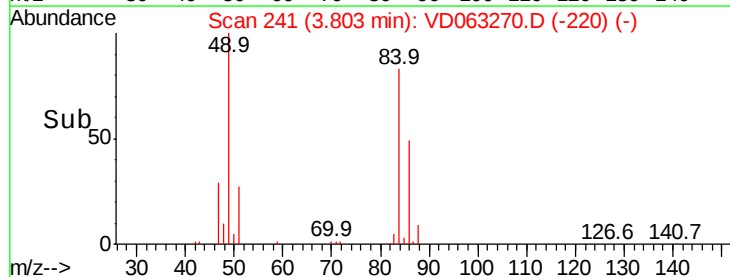
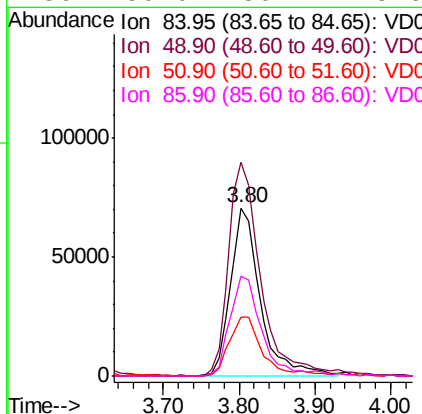
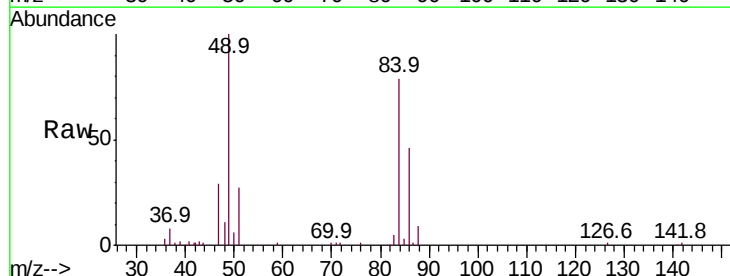
Tot Ion: 73 Resp: 390343
 Ion Ratio Lower Upper
 73 100
 57 17.4 13.8 20.6

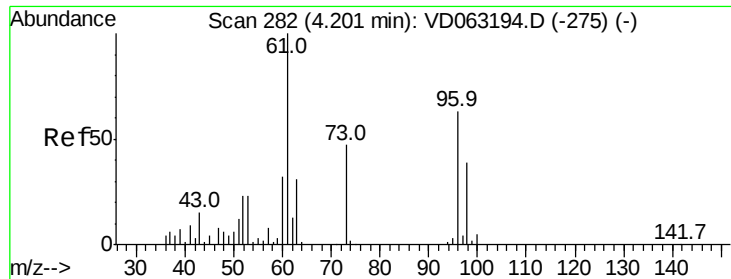


#20

Methylene Chloride
 Concen: 18.973 ug/l
 RT: 3.80 min Scan# 241
 Delta R.T. 0.01 min
 Lab File: VD063270.D
 Acq: 31 Jul 2019 11:16

Tgt Ion: 84 Resp: 192496
 Ion Ratio Lower Upper
 84 100
 49 127.0 112.5 168.7
 51 34.9 29.6 44.4
 86 59.0 50.4 75.6





#21

trans-1,2-Dichloroethene

Concen: 19.986 ug/l

RT: 4.21 min Scan# 282

Delta R.T. 0.01 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

Instrument :

MSVOA_D

ClientSampleId :

VD0731SBS01

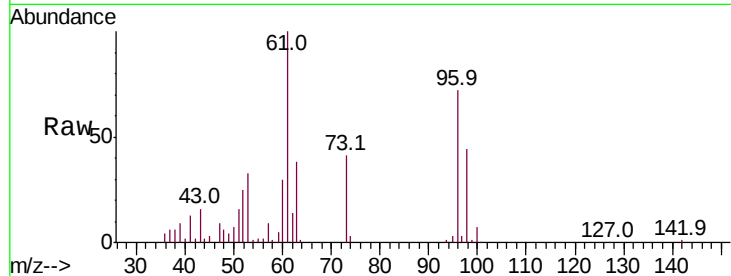
Tot Ion: 96 Resp: 201948

Ion Ratio Lower Upper

96 100

61 139.8 127.4 191.2

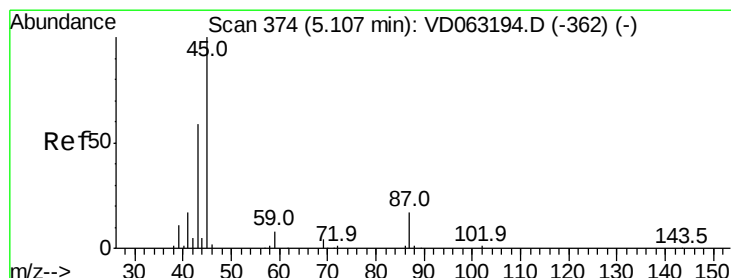
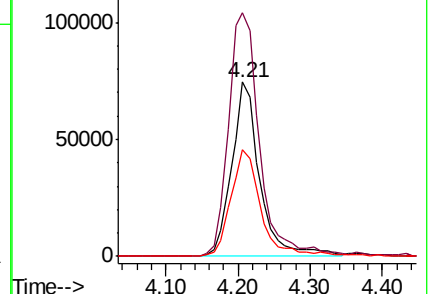
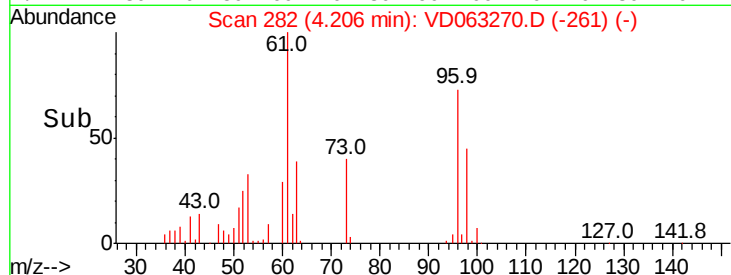
98 61.4 49.3 73.9



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 19.536 ug/l

RT: 5.11 min Scan# 374

Delta R.T. 0.01 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

Tgt Ion: 45 Resp: 559930

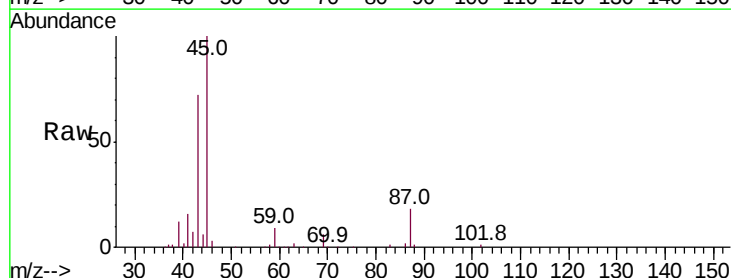
Ion Ratio Lower Upper

45 100

43 71.9 51.7 77.5

87 18.4 14.6 21.8

59 9.3 6.6 10.0

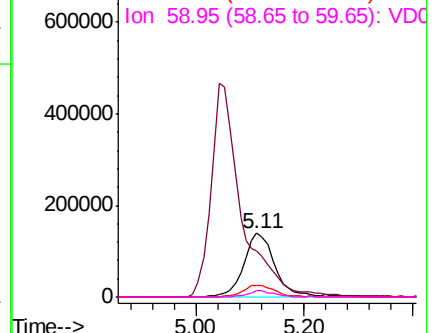
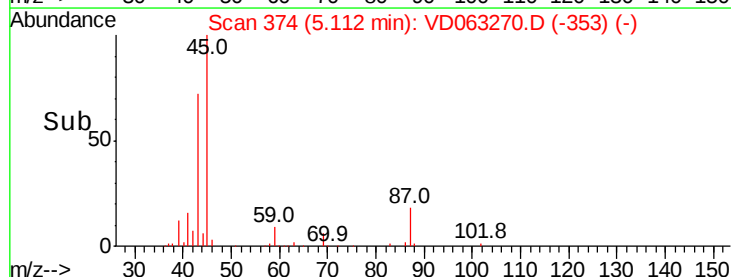


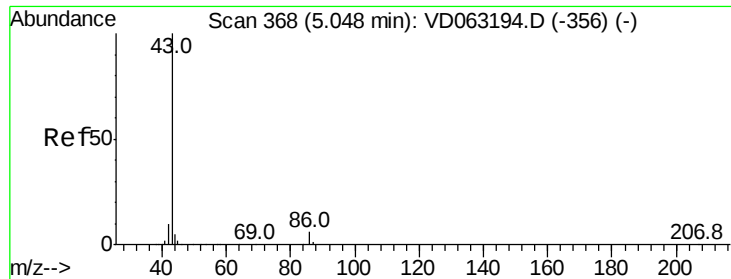
Abundance Ion 45.05 (44.75 to 45.75): VDC

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: 102.342 ug/l

RT: 5.04 min Scan# 367

Delta R.T. -0.00 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

Instrument :

MSVOA_D

ClientSampleID :

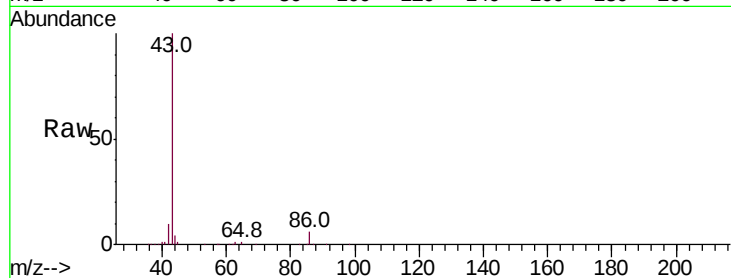
VD0731SBS01

Tot Ion: 43 Resp: 1803077

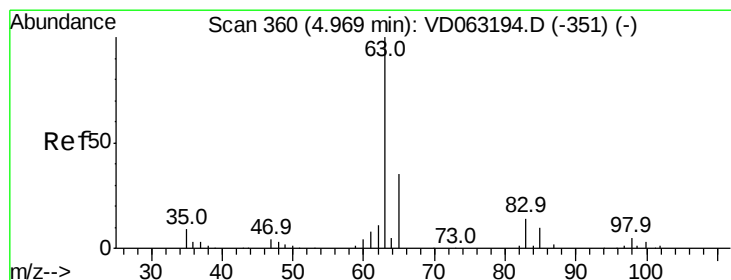
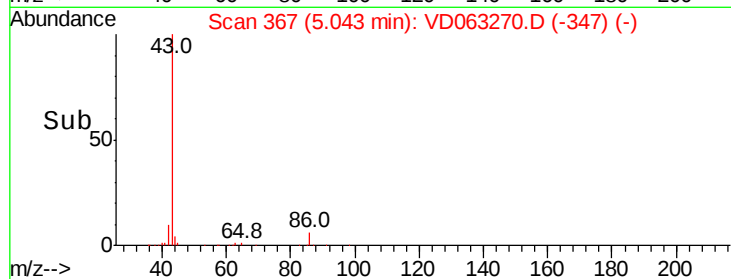
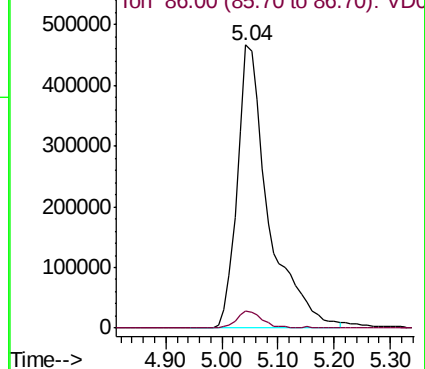
Ion Ratio Lower Upper

43 100

86 6.2 4.9 7.3



Abundance Ion 42.95 (42.65 to 43.65): VDC



#24

1,1-Dichloroethane

Concen: 19.735 ug/l

RT: 4.98 min Scan# 361

Delta R.T. 0.02 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

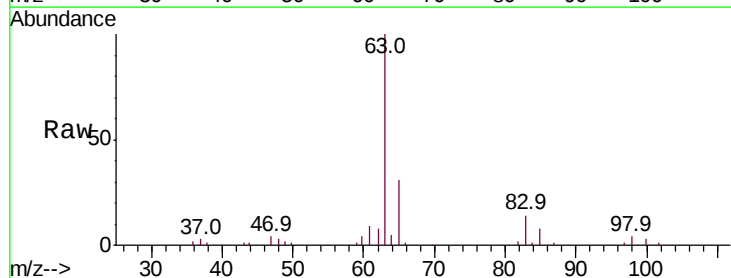
Tgt Ion: 63 Resp: 361304

Ion Ratio Lower Upper

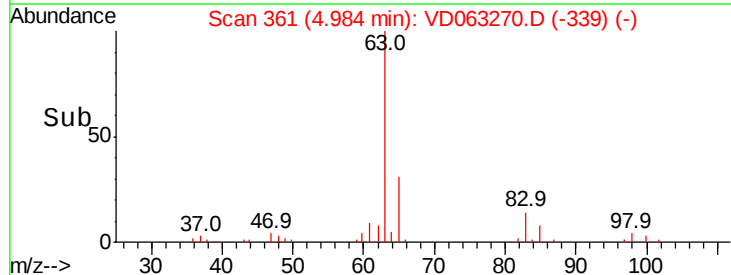
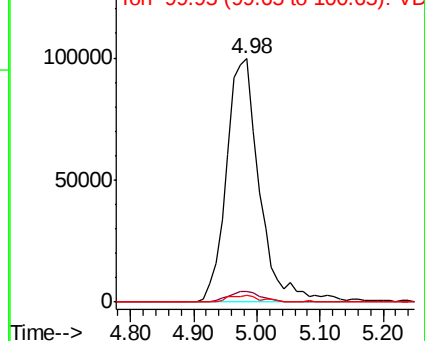
63 100

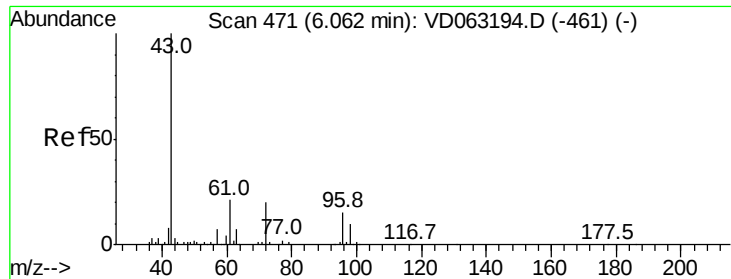
98 4.7 2.8 8.4

100 3.0 1.3 3.9



Abundance Ion 62.95 (62.65 to 63.65): VDC





#25

2-Butanone

Concen: 98.567 ug/l

RT: 6.07 min Scan# 471

Delta R.T. 0.01 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

Instrument :

MSVOA_D

ClientSampleId :

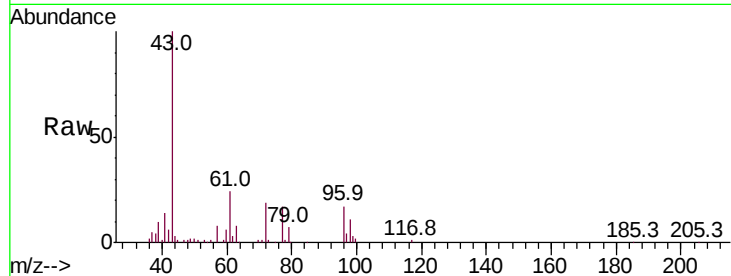
VD0731SBS01

Tot Ion: 43 Resp: 248294

Ion Ratio Lower Upper

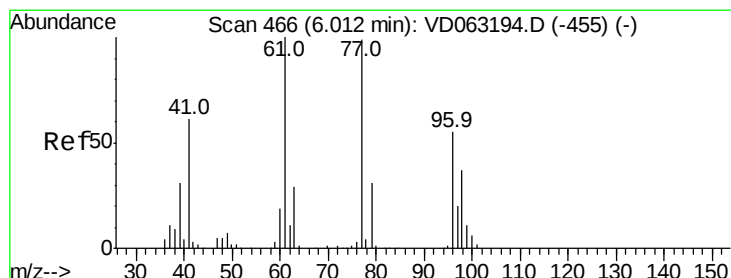
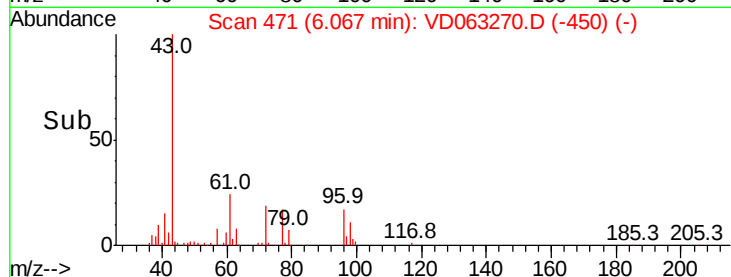
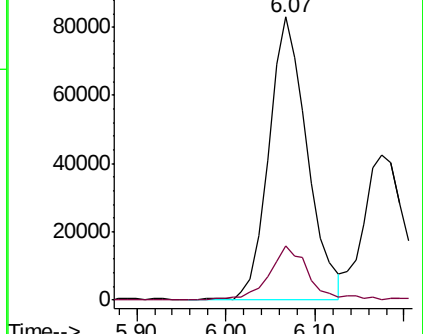
43 100

72 19.3 16.3 24.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 19.202 ug/l

RT: 6.02 min Scan# 466

Delta R.T. 0.01 min

Lab File: VD063270.D

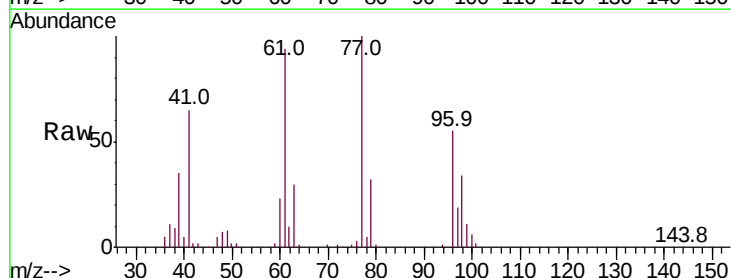
Acq: 31 Jul 2019 11:16

Tgt Ion: 77 Resp: 362277

Ion Ratio Lower Upper

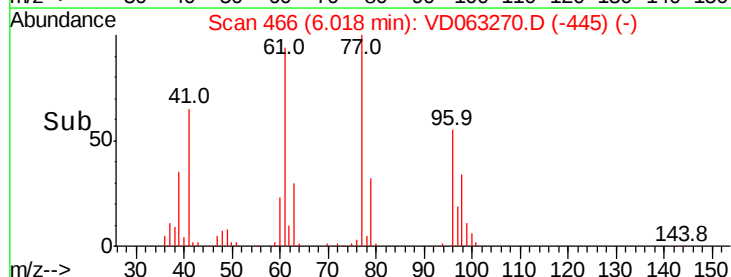
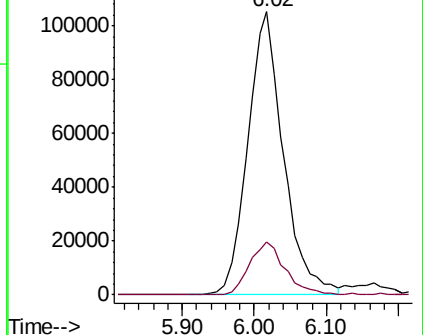
77 100

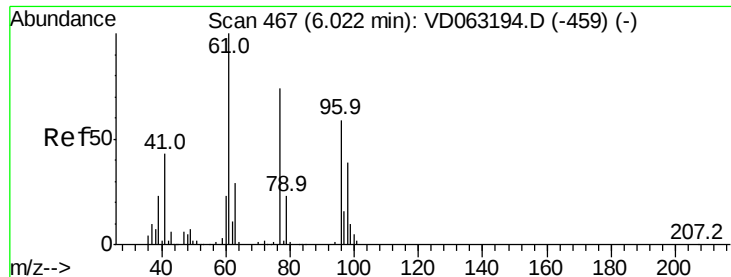
97 18.6 10.2 30.6



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



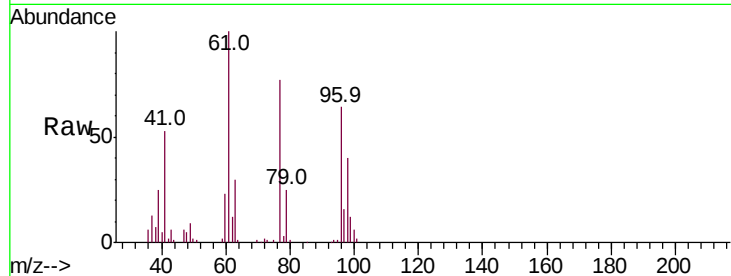


#27

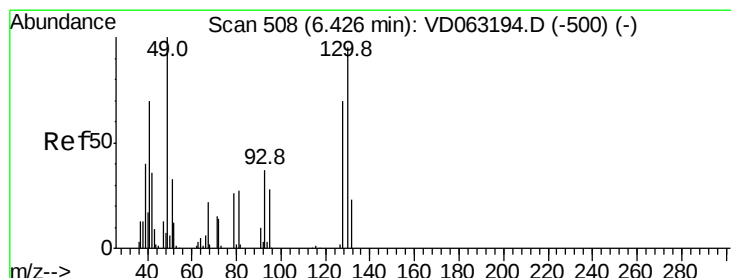
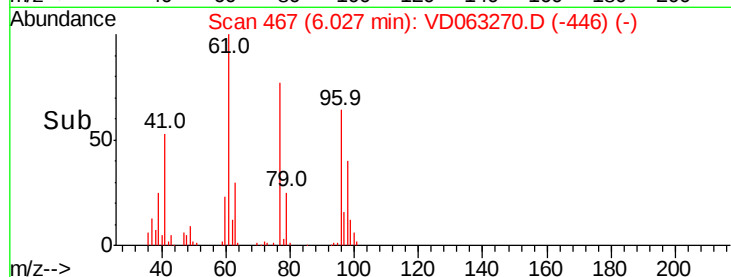
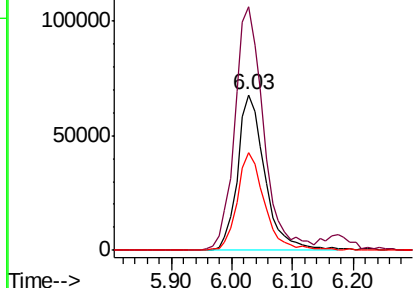
cis-1,2-Dichloroethene
 Concen: 19.600 ug/l
 RT: 6.03 min Scan# 467
 Delta R.T. 0.01 min
 Lab File: VD063270.D
 Acq: 31 Jul 2019 11:16

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0731SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	156.6	0.0	337.2
98	62.6	0.0	130.6



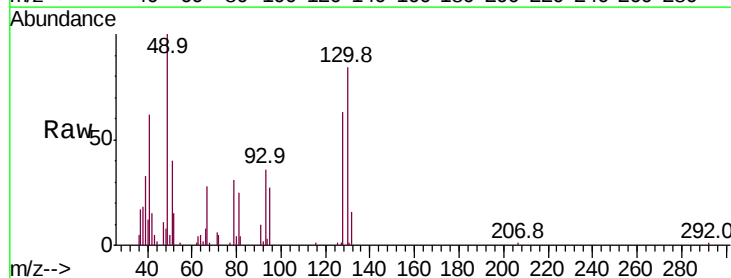
Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 97.85 (97.55 to 98.55): VDC



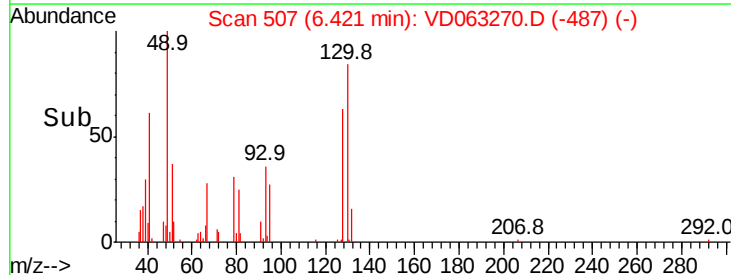
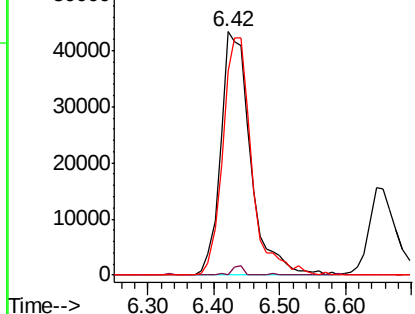
#28

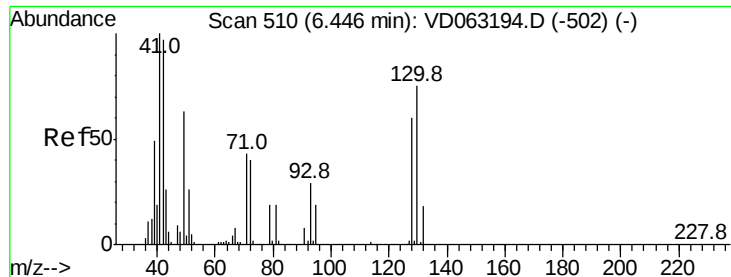
Bromochloromethane
 Concen: 18.860 ug/l
 RT: 6.42 min Scan# 507
 Delta R.T. -0.00 min
 Lab File: VD063270.D
 Acq: 31 Jul 2019 11:16

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	0.0
130	83.6	75.7	113.5



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: 97.472 ug/l

RT: 6.46 min Scan# 511

Delta R.T. 0.02 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

Instrument :

MSVOA_D

ClientSampleId :

VD0731SBS01

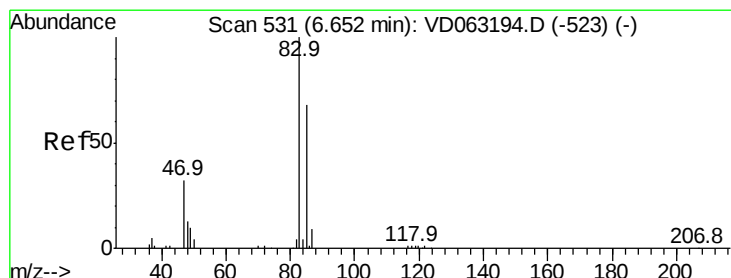
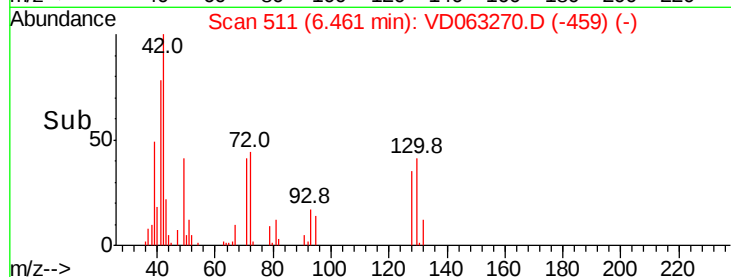
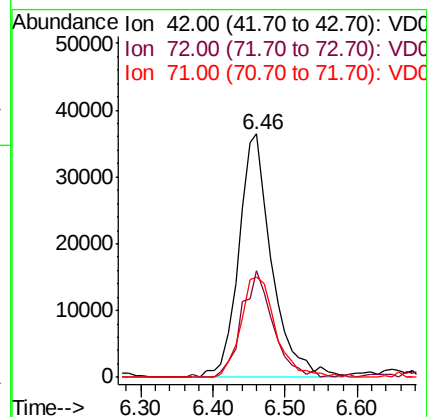
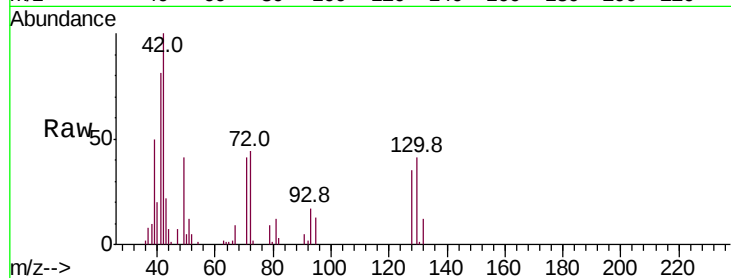
Tot Ion: 42 Resp: 116249

Ion Ratio Lower Upper

42 100

72 41.6 33.4 50.2

71 43.8 35.7 53.5



#30

Chloroform

Concen: 19.919 ug/l

RT: 6.66 min Scan# 531

Delta R.T. 0.01 min

Lab File: VD063270.D

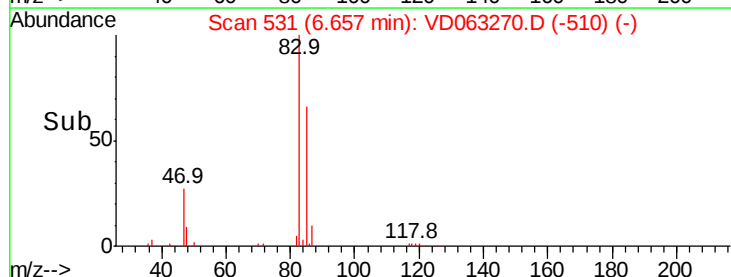
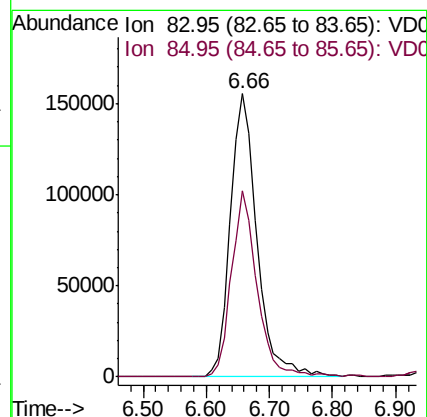
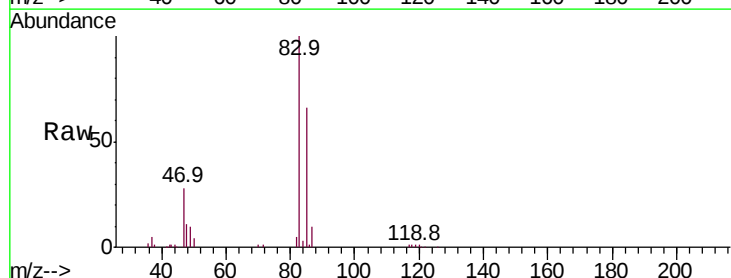
Acq: 31 Jul 2019 11:16

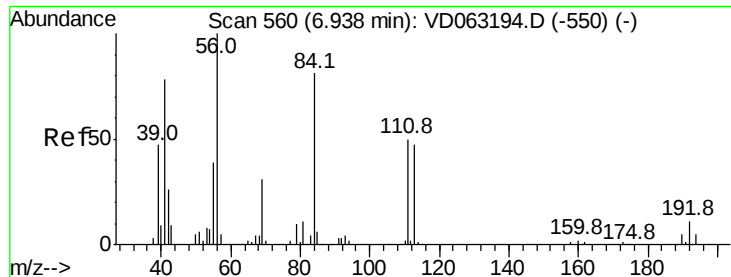
Tgt Ion: 83 Resp: 452550

Ion Ratio Lower Upper

83 100

85 65.6 54.2 81.4





#31

Cyclohexane

Concen: 19.221 ug/l

RT: 6.94 min Scan# 560

Delta R.T. 0.01 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

Instrument :

MSVOA_D

ClientSampleId :

VD0731SBS01

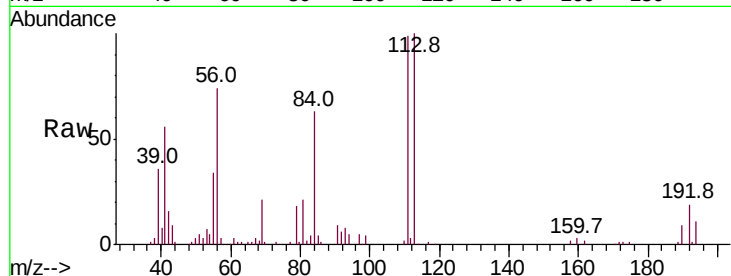
Tot Ion: 56 Resp: 220571

Ion Ratio Lower Upper

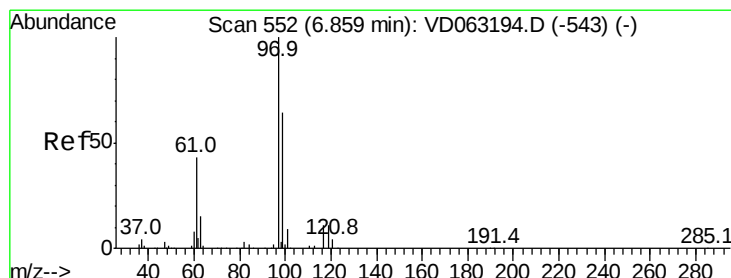
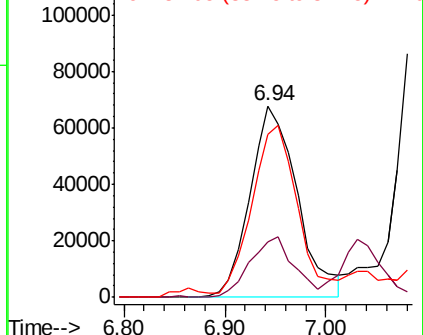
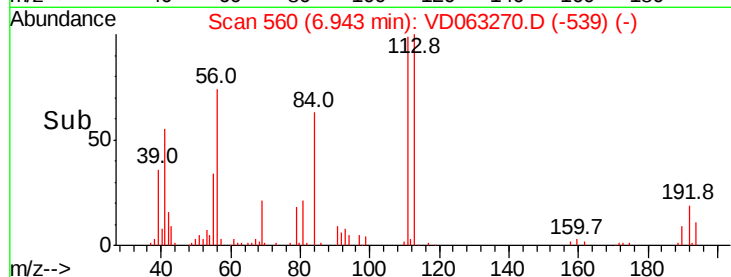
56 100

69 28.7 24.5 36.7

84 85.1 64.9 97.3



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC



#32

1,1,1-Trichloroethane

Concen: 19.407 ug/l

RT: 6.86 min Scan# 552

Delta R.T. 0.01 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

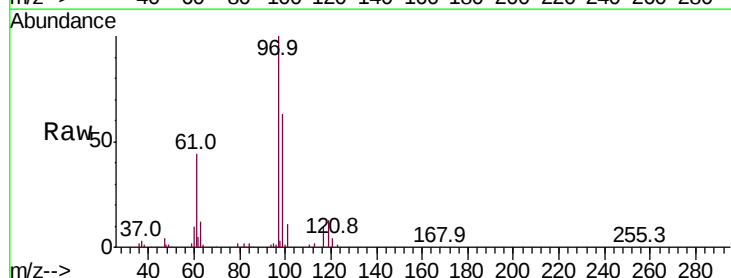
Tgt Ion: 97 Resp: 426487

Ion Ratio Lower Upper

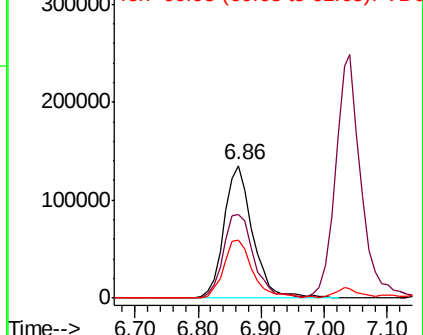
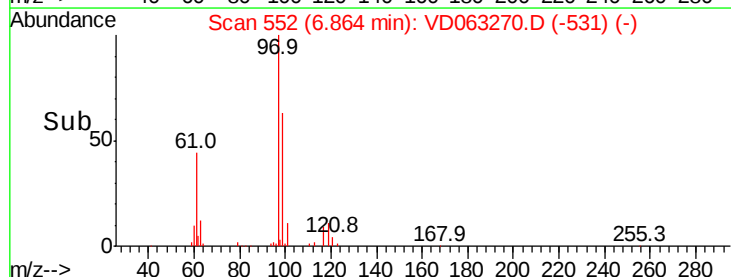
97 100

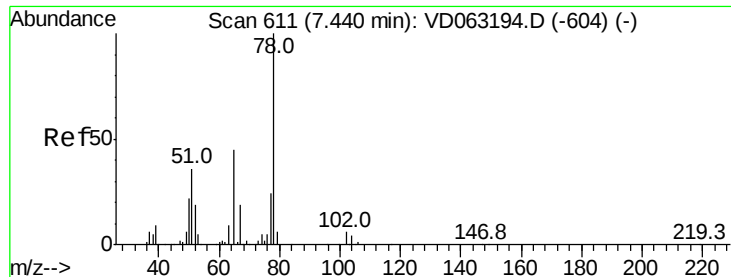
99 63.1 51.2 76.8

61 44.0 34.2 51.2



Abundance Ion 96.85 (96.55 to 97.55): VDC
Ion 98.85 (98.55 to 99.55): VDC
Ion 60.95 (60.65 to 61.65): VDC





#33

1,2-Dichloroethane-d4

Concen: 47.956 ug/l

RT: 7.44 min Scan# 611

Delta R.T. 0.01 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

Instrument :

MSVOA_D

ClientSampleId :

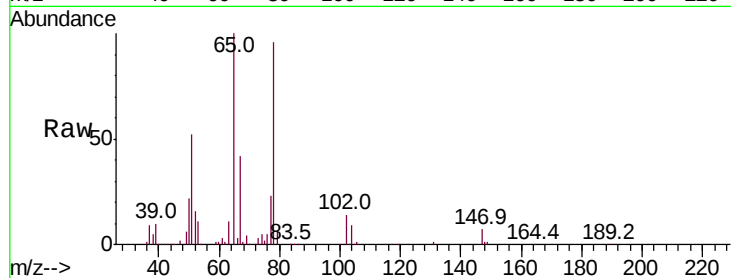
VD0731SBS01

Tot Ion: 65 Resp: 617804

Ion Ratio Lower Upper

65 100

67 42.4 0.0 85.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.44

250000

200000

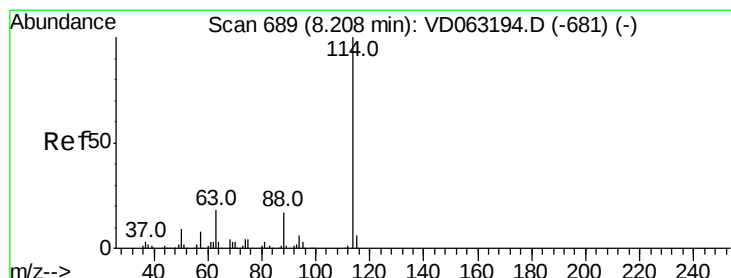
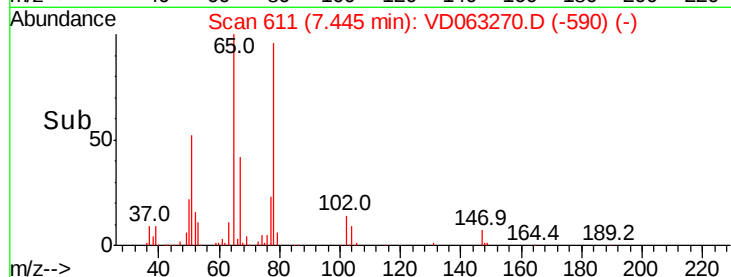
150000

100000

50000

0

Time--> 7.30 7.40 7.50 7.60



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 689

Delta R.T. 0.01 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

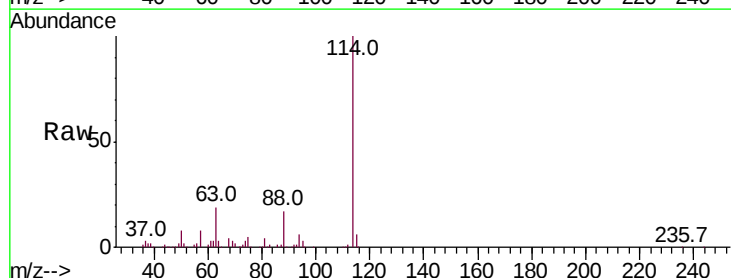
Tgt Ion: 114 Resp: 1554472

Ion Ratio Lower Upper

114 100

63 19.0 0.0 35.2

88 17.3 0.0 34.6



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

8.21

800000

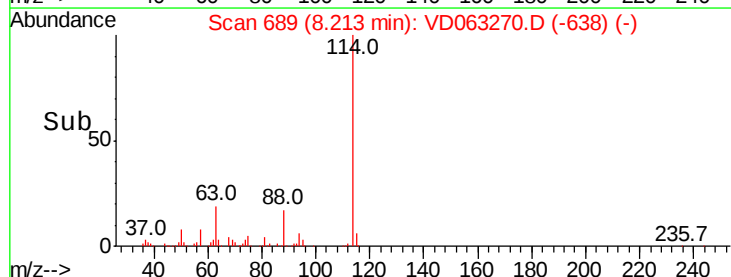
600000

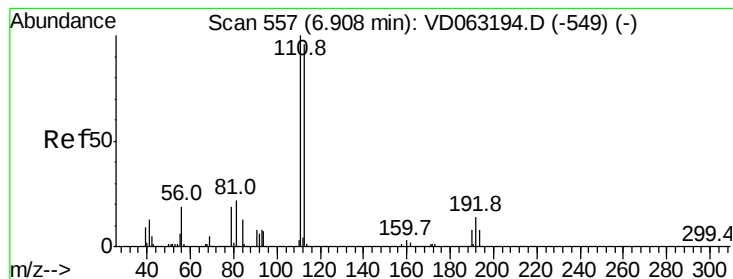
400000

200000

0

Time--> 8.10 8.20 8.30 8.40





#35

Dibromofluoromethane

Concen: 48.440 ug/l

RT: 6.92 min Scan# 558

Delta R.T. 0.02 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

Instrument :

MSVOA_D

ClientSampleId :

VD0731SBS01

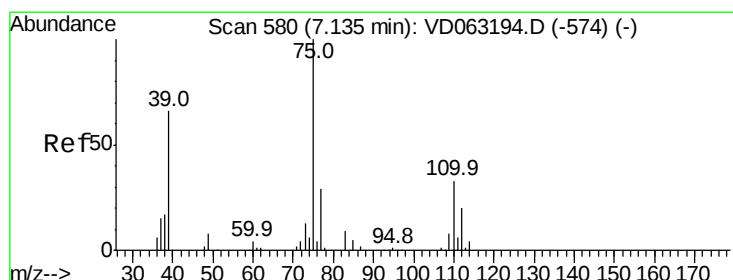
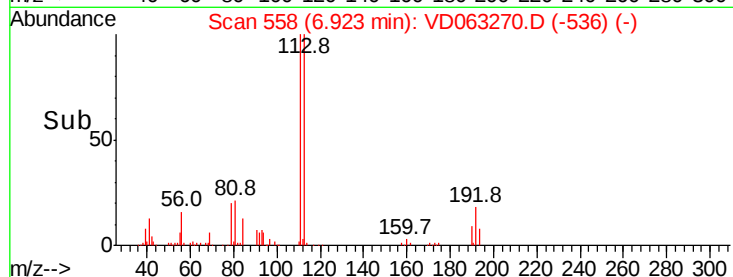
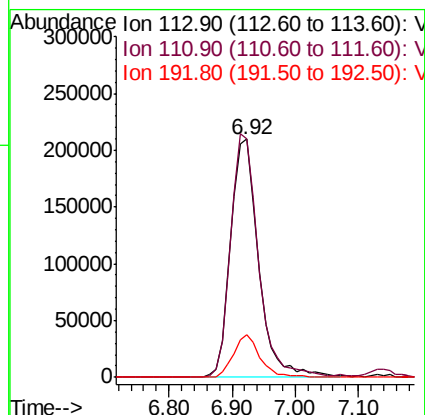
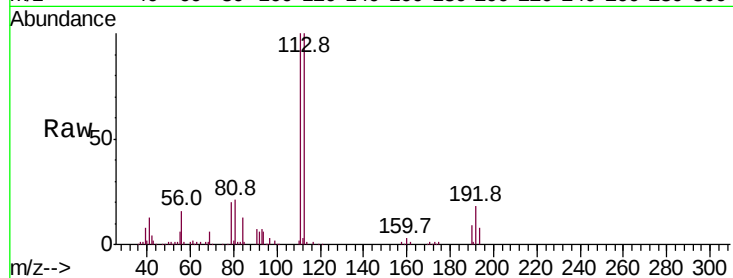
Tot Ion:113 Resp: 642891

Ion Ratio Lower Upper

113 100

111 100.2 83.2 124.8

192 17.9 11.8 17.8#



#36

1,1-Dichloropropene

Concen: 20.895 ug/l

RT: 7.13 min Scan# 579

Delta R.T. -0.00 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

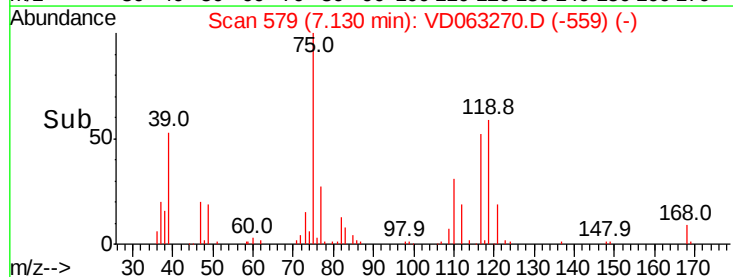
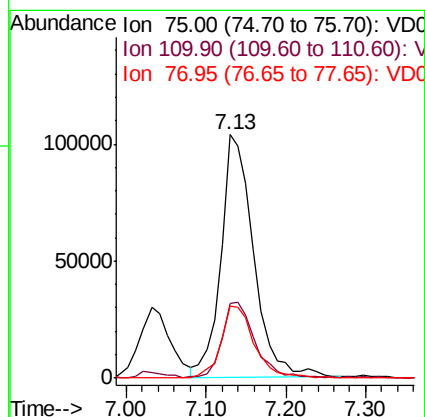
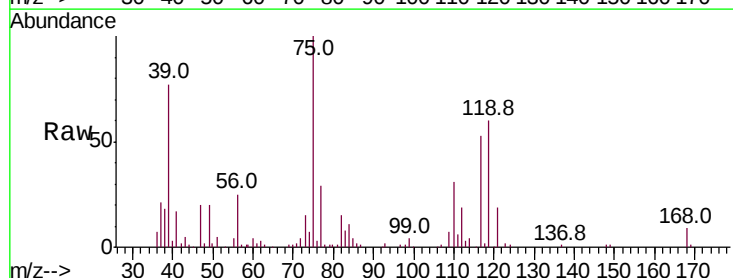
Tgt Ion: 75 Resp: 296434

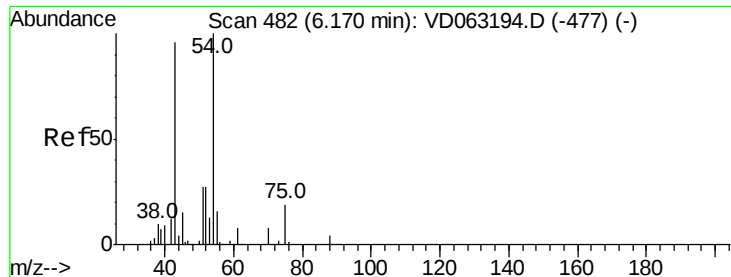
Ion Ratio Lower Upper

75 100

110 30.8 16.1 48.2

77 29.4 22.7 34.1

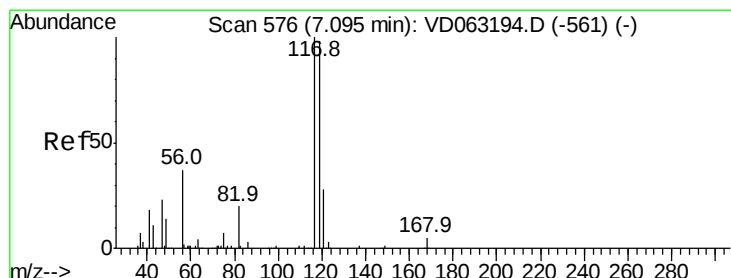
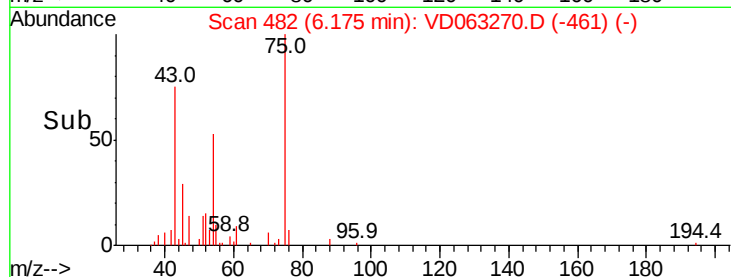
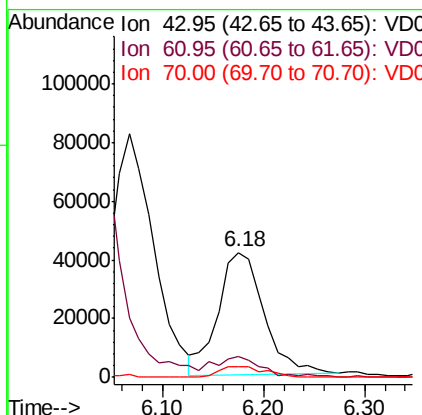
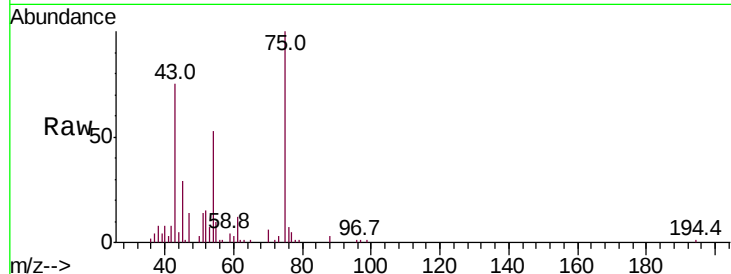




#37
Ethyl Acetate
Concen: 20.674 ug/l
RT: 6.18 min Scan# 482
Delta R.T. 0.01 min
Lab File: VD063270.D
Acq: 31 Jul 2019 11:16

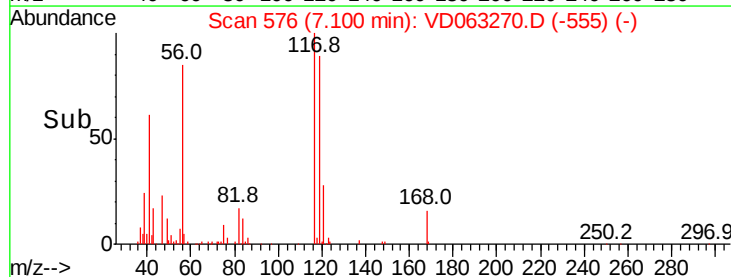
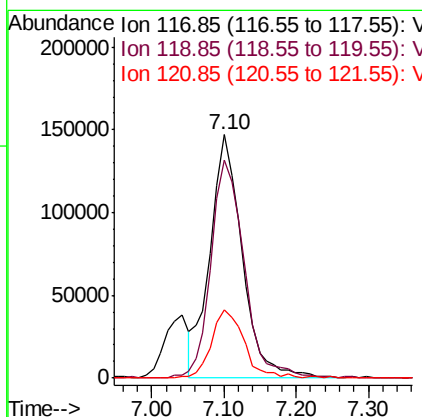
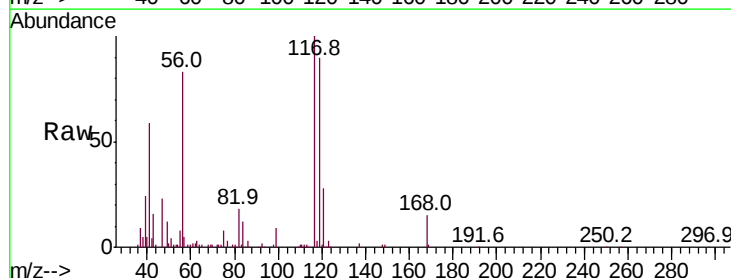
Instrument :
MSVOA_D
ClientSampleId :
VD0731SBS01

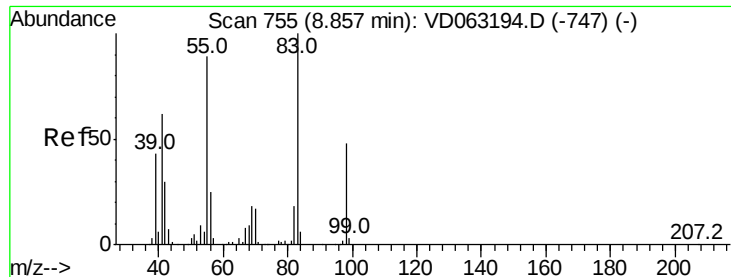
Tot Ion: 43 Resp: 131767
Ion Ratio Lower Upper
43 100
61 16.3 11.3 16.9
70 8.0 5.1 7.7#



#38
Carbon Tetrachloride
Concen: 21.195 ug/l
RT: 7.10 min Scan# 576
Delta R.T. 0.01 min
Lab File: VD063270.D
Acq: 31 Jul 2019 11:16

Tgt Ion: 117 Resp: 452666
Ion Ratio Lower Upper
117 100
119 89.6 78.2 117.2
121 28.2 22.1 33.1

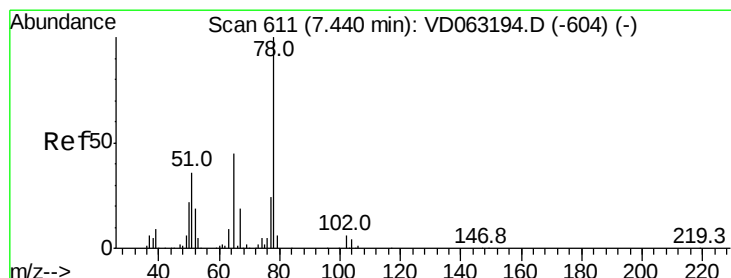
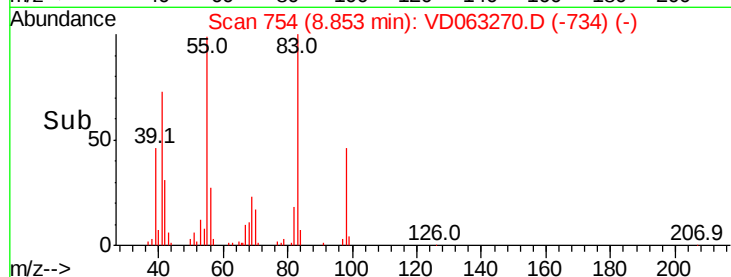
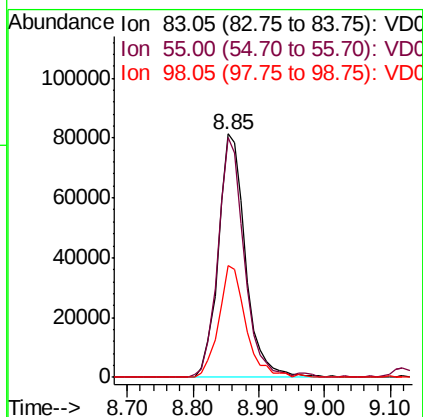
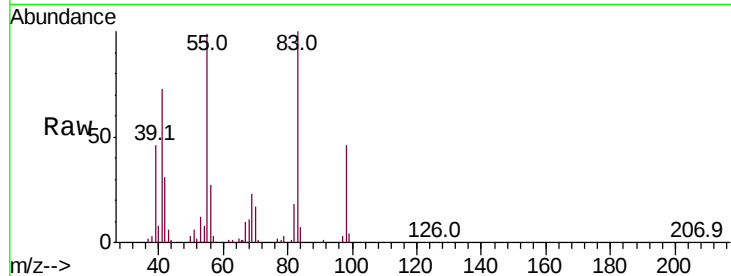




#39
Methvlcvclohexane
Concen: 19.680 ug/l
RT: 8.85 min Scan# 754
Delta R.T. -0.00 min
Lab File: VD063270.D
Acq: 31 Jul 2019 11:16

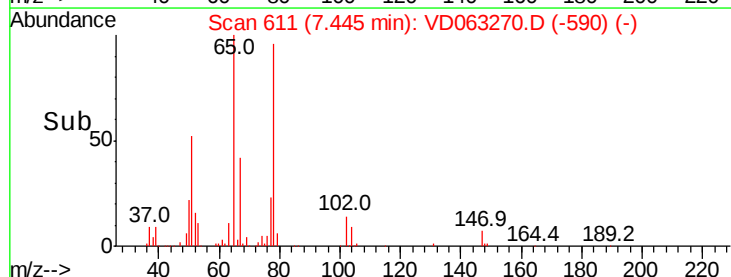
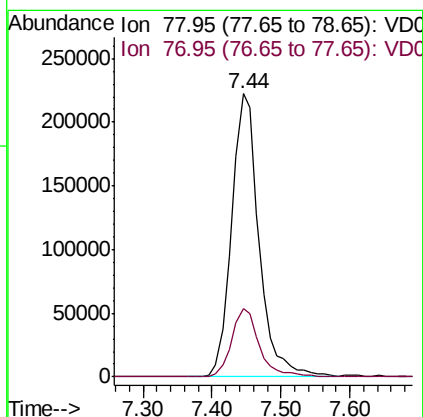
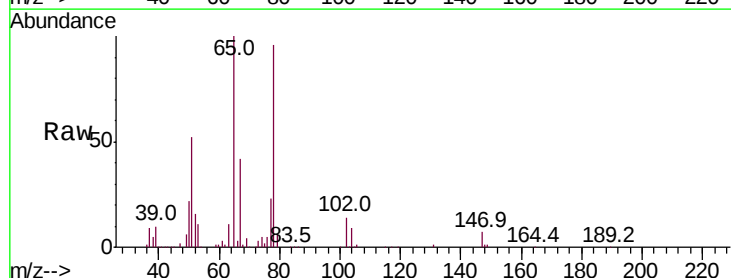
Instrument :
MSVOA_D
ClientSampleId :
VD0731SBS01

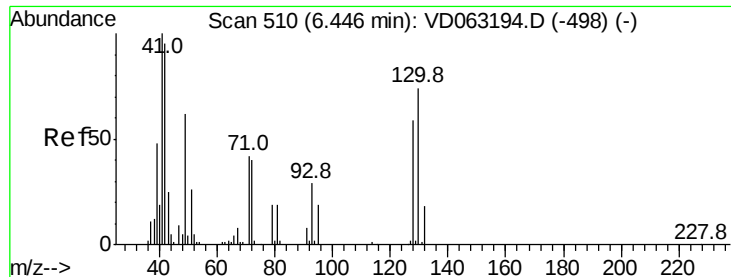
Tot Ion: 83 Resp: 232609
Ion Ratio Lower Upper
83 100
55 98.6 71.1 106.7
98 45.7 38.5 57.7



#40
Benzene
Concen: 20.555 ug/l
RT: 7.44 min Scan# 611
Delta R.T. 0.01 min
Lab File: VD063270.D
Acq: 31 Jul 2019 11:16

Tgt Ion: 78 Resp: 611141
Ion Ratio Lower Upper
78 100
77 24.0 19.4 29.2





#41

Methacrylonitrile

Concen: 19.656 ug/l

RT: 6.45 min Scan# 510

Delta R.T. 0.01 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

Instrument :

MSVOA_D

ClientSampleId :

VD0731SBS01

Tot Ion: 41 Resp: 149852

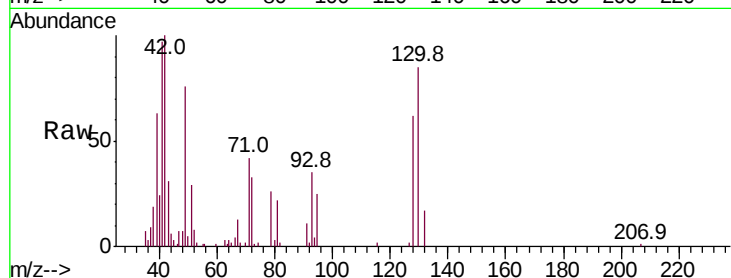
Ion Ratio Lower Upper

41 100

39 65.3 38.4 57.6#

67 13.0 6.7 10.1#

52 8.3 4.3 6.5#

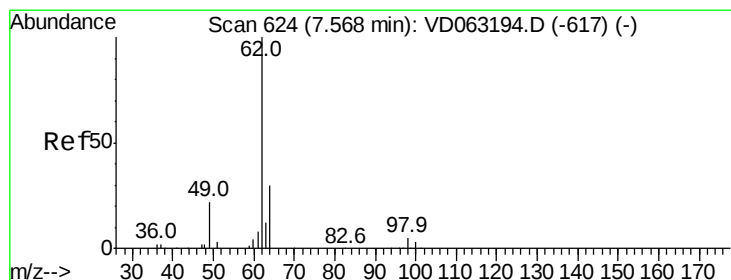
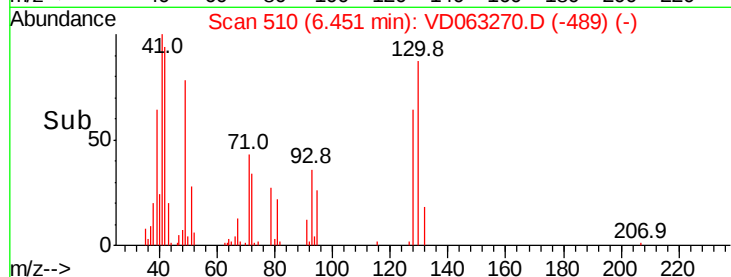
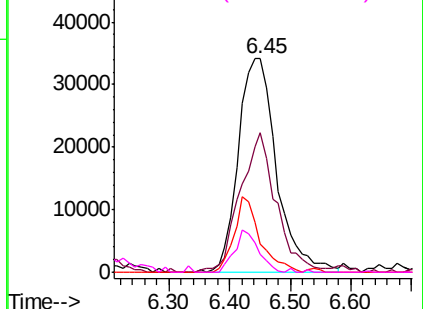


Abundance Ion 40.95 (40.65 to 41.65): VDC

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: 20.879 ug/l

RT: 7.57 min Scan# 624

Delta R.T. 0.01 min

Lab File: VD063270.D

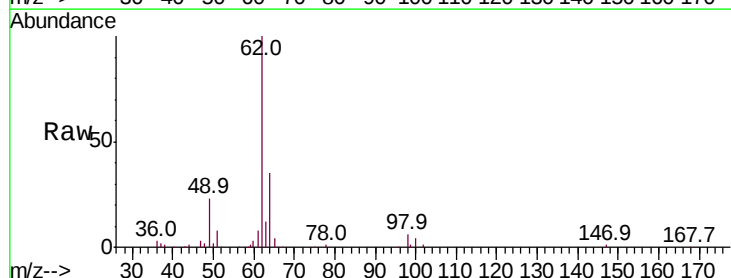
Acq: 31 Jul 2019 11:16

Tgt Ion: 62 Resp: 328997

Ion Ratio Lower Upper

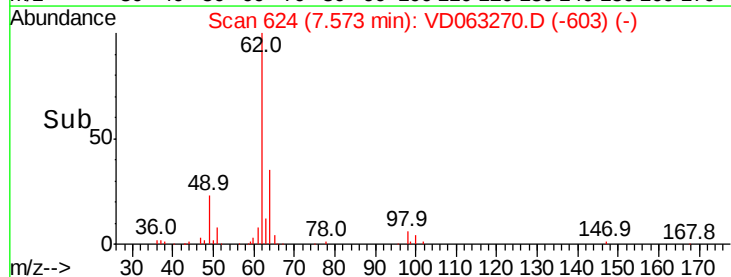
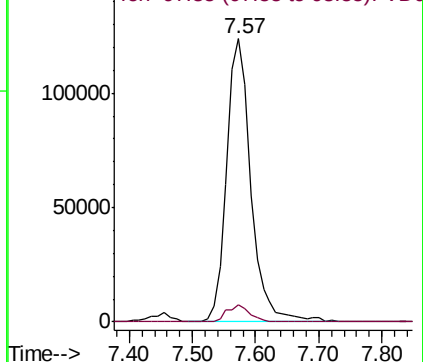
62 100

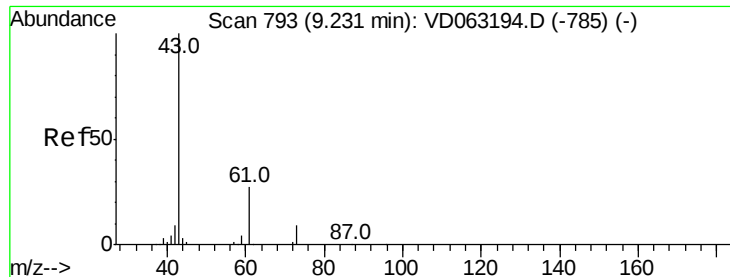
98 6.3 0.0 9.8



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#43

Isopropyl Acetate

Concen: 21.097 ug/l

RT: 9.24 min Scan# 793

Delta R.T. 0.01 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

Instrument :

MSVOA_D

ClientSampleId :

VD0731SBS01

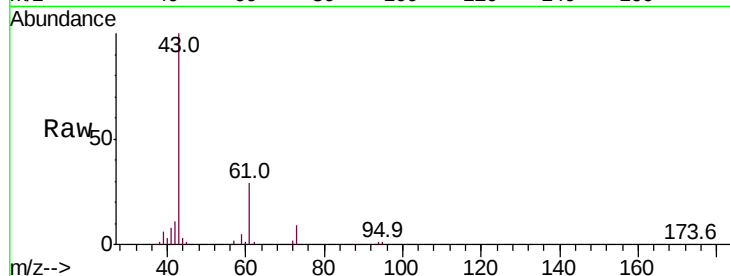
Tot Ion: 43 Resp: 171756

Ion Ratio Lower Upper

43 100

61 28.8 21.4 32.0

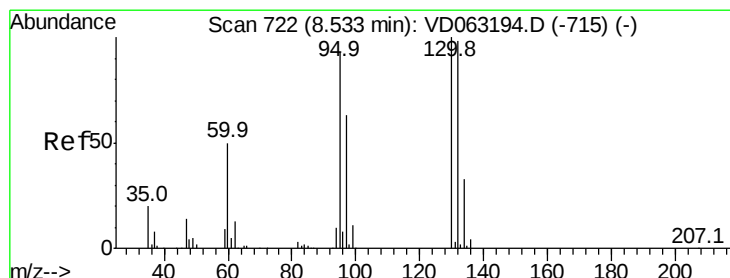
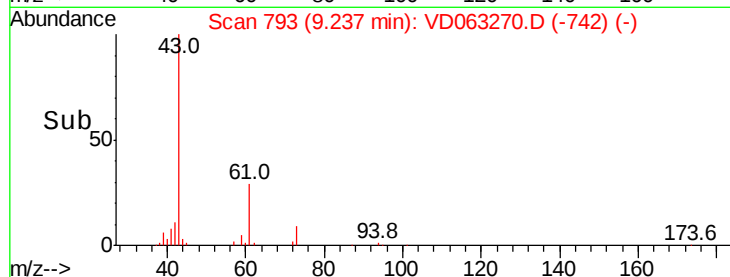
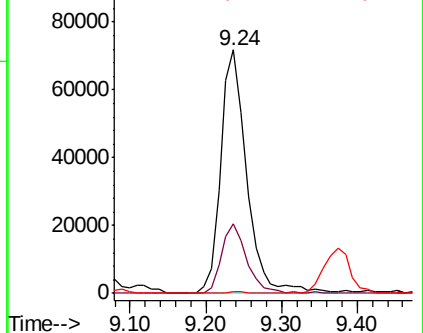
87 0.5 0.2 0.4#



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: 20.284 ug/l

RT: 8.54 min Scan# 722

Delta R.T. 0.01 min

Lab File: VD063270.D

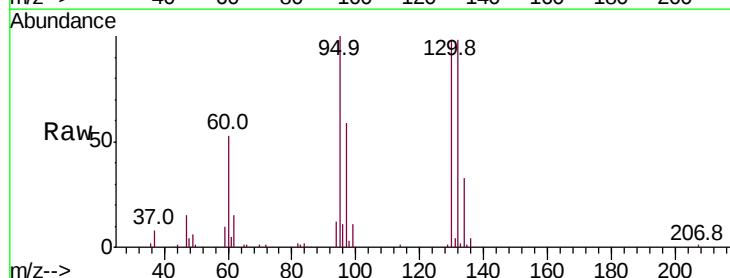
Acq: 31 Jul 2019 11:16

Tgt Ion:130 Resp: 244380

Ion Ratio Lower Upper

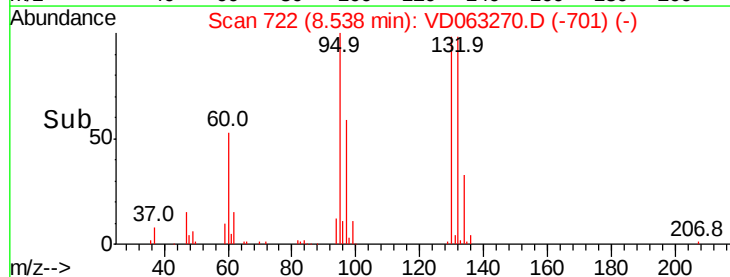
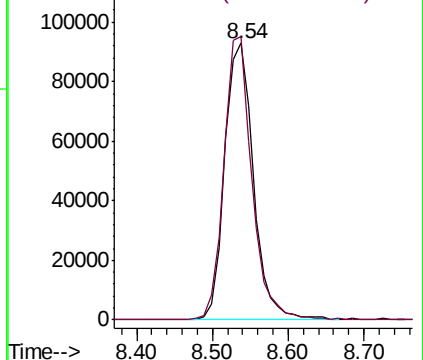
130 100

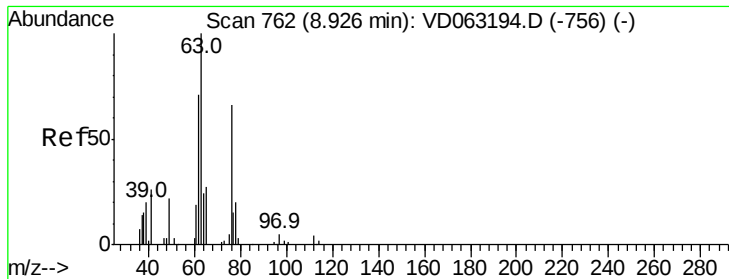
95 102.4 0.0 185.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 19.346 ug/l

RT: 8.93 min Scan# 762

Delta R.T. 0.01 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

Instrument :

MSVOA_D

ClientSampleId :

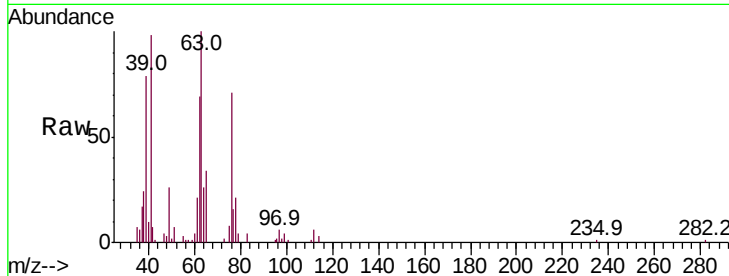
VD0731SBS01

Tot Ion: 63 Resp: 146201

Ion Ratio Lower Upper

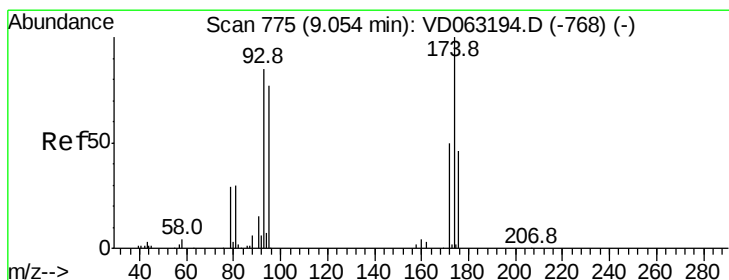
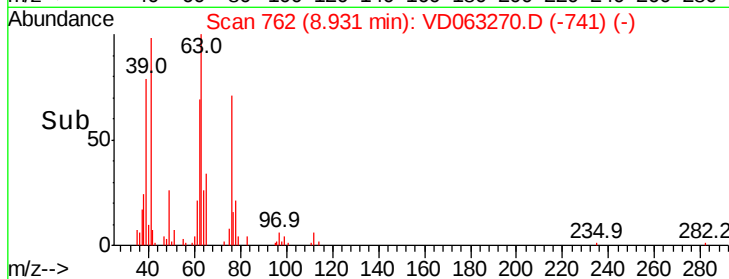
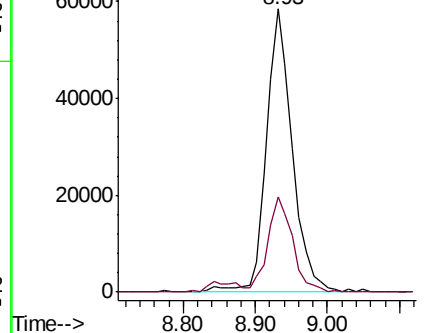
63 100

65 33.6 23.6 35.4



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 20.296 ug/l

RT: 9.06 min Scan# 775

Delta R.T. 0.01 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

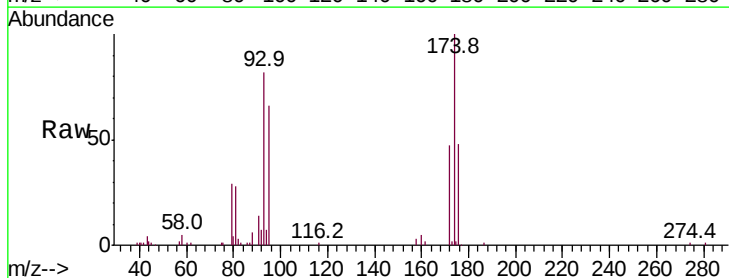
Tgt Ion: 93 Resp: 127532

Ion Ratio Lower Upper

93 100

95 81.3 72.8 109.2

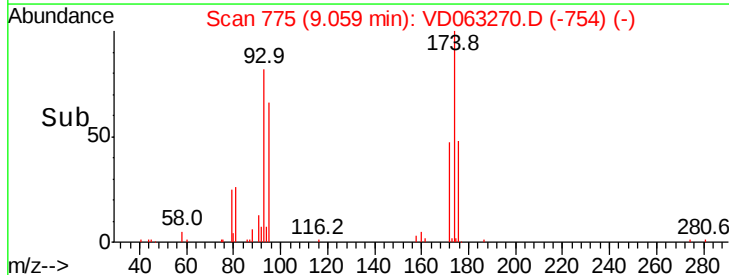
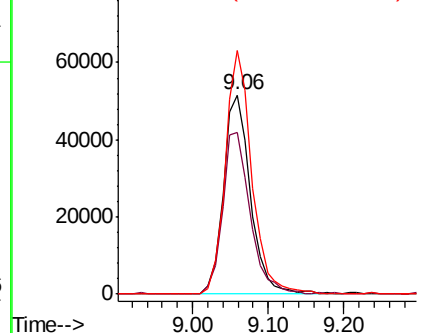
174 122.5 94.4 141.6

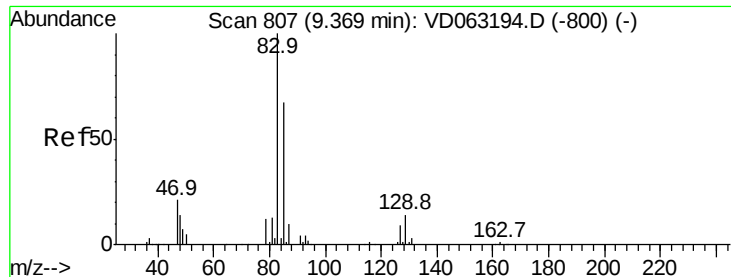


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V





#47

Bromodichloromethane

Concen: 20.429 ug/l

RT: 9.37 min Scan# 807

Delta R.T. 0.01 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

Instrument :

MSVOA_D

ClientSampleId :

VD0731SBS01

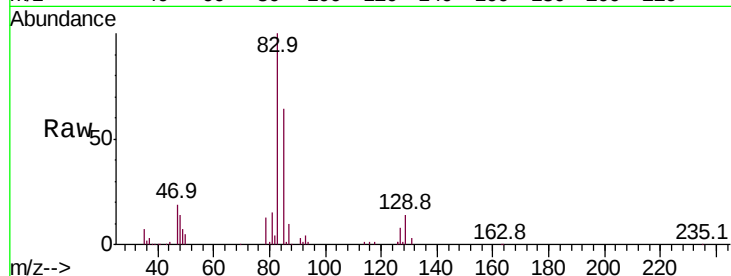
Tot Ion: 83 Resp: 327235

Ion Ratio Lower Upper

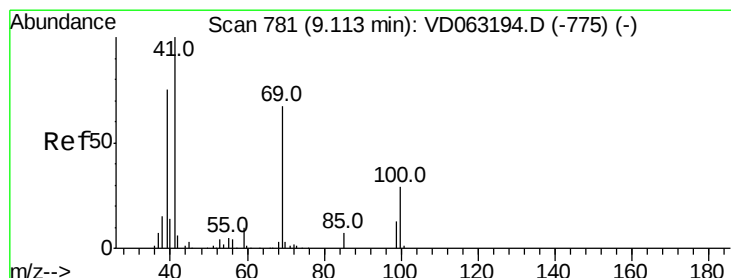
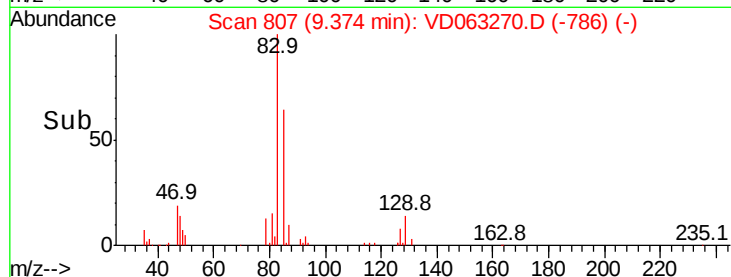
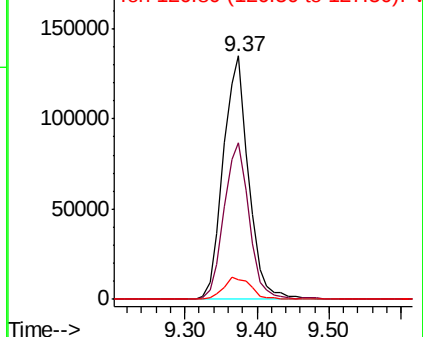
83 100

85 64.2 53.6 80.4

127 8.0 7.2 10.8



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: 21.164 ug/l

RT: 9.12 min Scan# 781

Delta R.T. 0.01 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

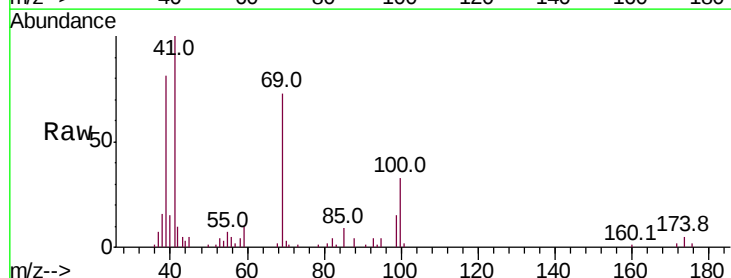
Tgt Ion: 41 Resp: 111749

Ion Ratio Lower Upper

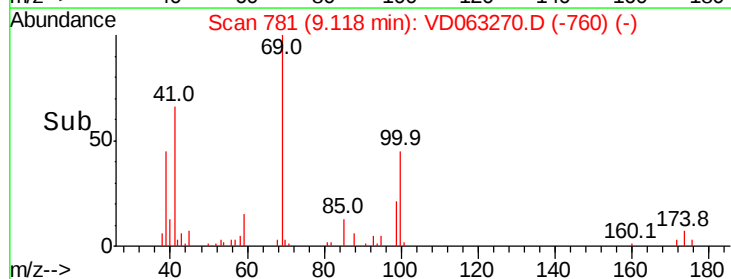
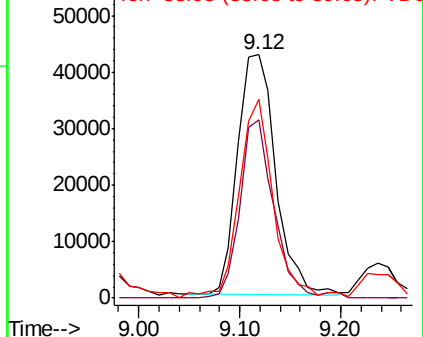
41 100

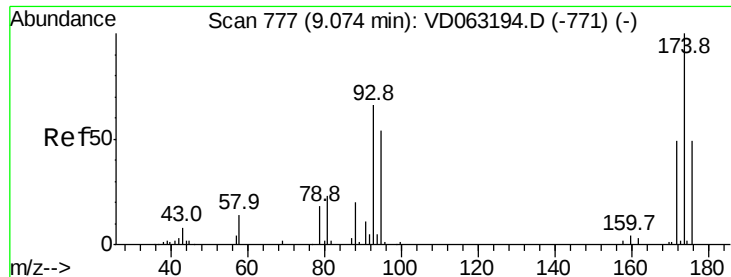
69 73.0 53.4 80.0

39 81.4 60.3 90.5



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

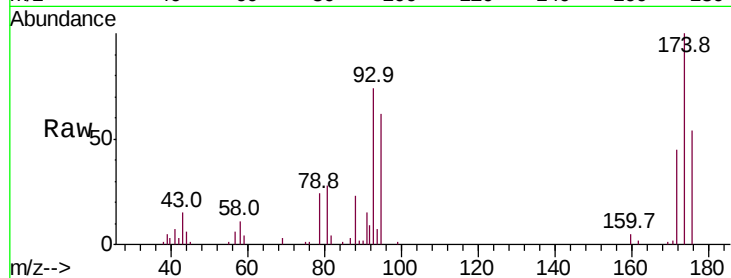




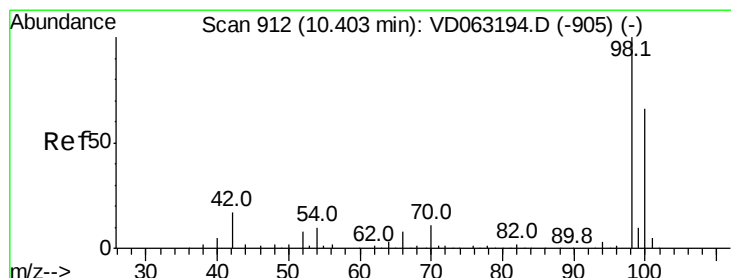
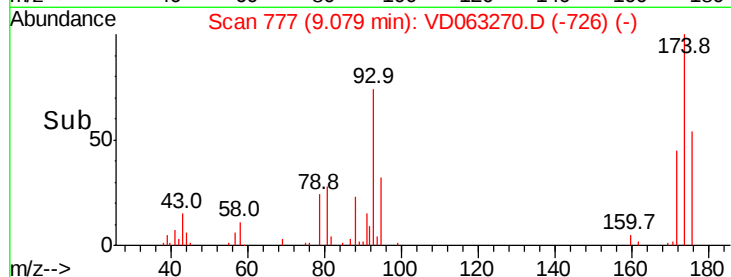
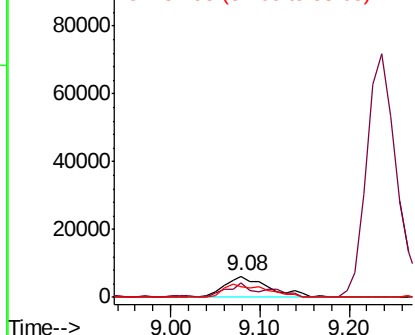
#49
1,4-Dioxane
Concen: 475.403 ug/l
RT: 9.08 min Scan# 777
Delta R.T. 0.01 min
Lab File: VD063270.D
Acq: 31 Jul 2019 11:16

Instrument :
MSVOA_D
ClientSampleId :
VD0731SBS01

Tot Ion: 88 Resp: 21361
Ion Ratio Lower Upper
88 100
43 67.9 30.7 46.1#
58 50.7 56.5 84.7#

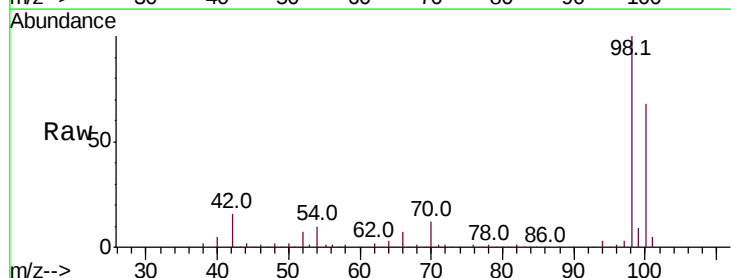


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

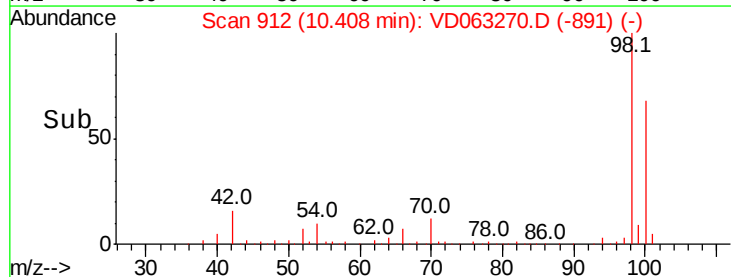
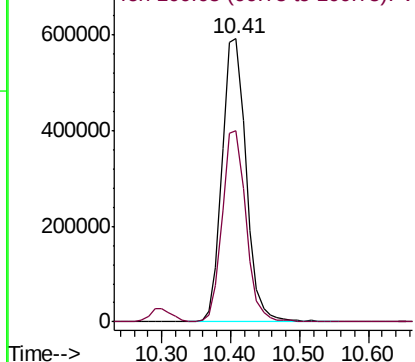


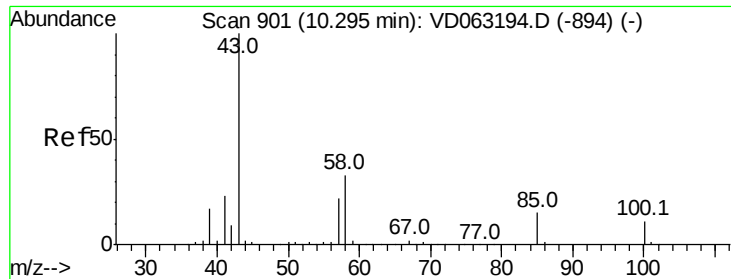
#50
Toluene-d8
Concen: 48.277 ug/l
RT: 10.41 min Scan# 912
Delta R.T. 0.01 min
Lab File: VD063270.D
Acq: 31 Jul 2019 11:16

Tgt Ion: 98 Resp: 1433942
Ion Ratio Lower Upper
98 100
100 67.6 53.2 79.8



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





#51

4-Methyl-2-Pentanone

Concen: 106.594 ug/l

RT: 10.30 min Scan# 901

Delta R.T. 0.01 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

Instrument :

MSVOA_D

ClientSampleId :

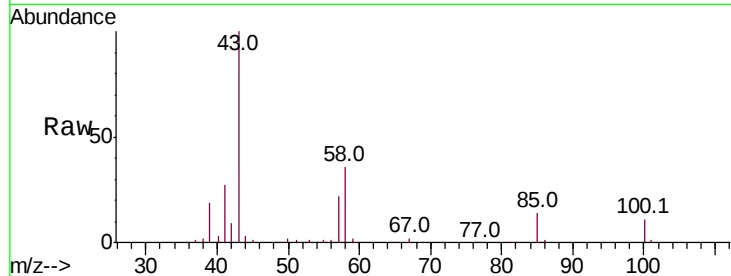
VD0731SBS01

Tot Ion: 43 Resp: 590193

Ion Ratio Lower Upper

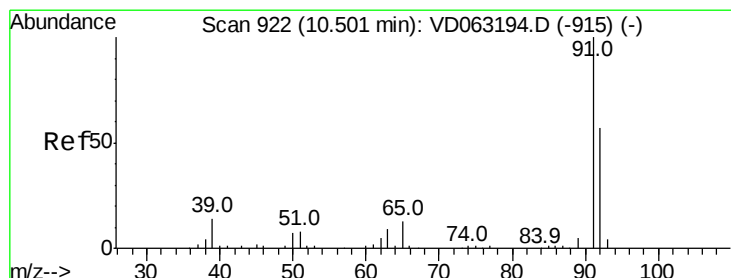
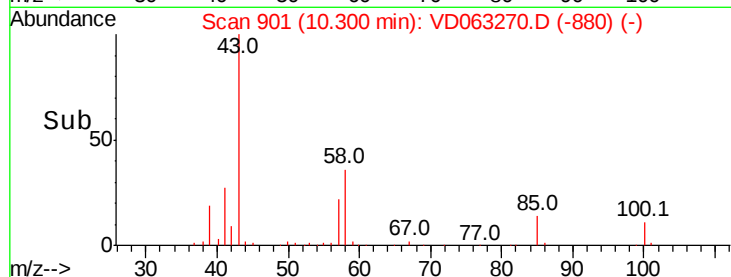
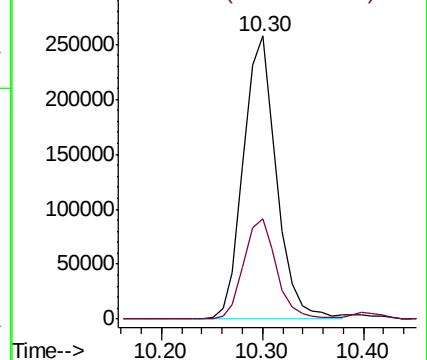
43 100

58 35.7 26.2 39.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 21.349 ug/l

RT: 10.51 min Scan# 922

Delta R.T. 0.01 min

Lab File: VD063270.D

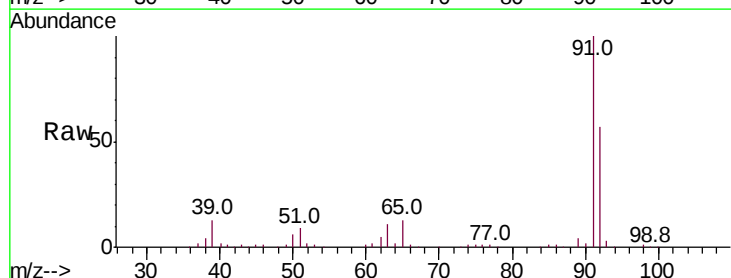
Acq: 31 Jul 2019 11:16

Tgt Ion: 92 Resp: 422180

Ion Ratio Lower Upper

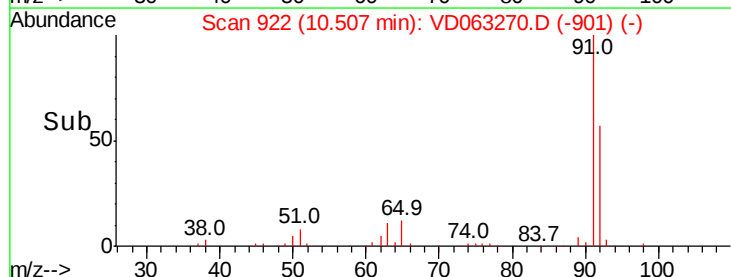
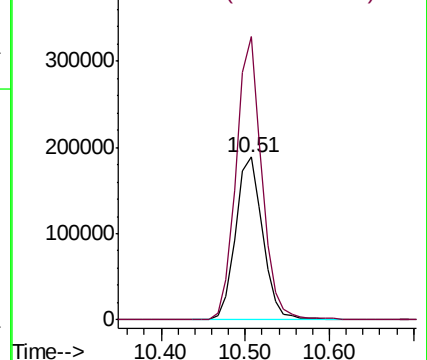
92 100

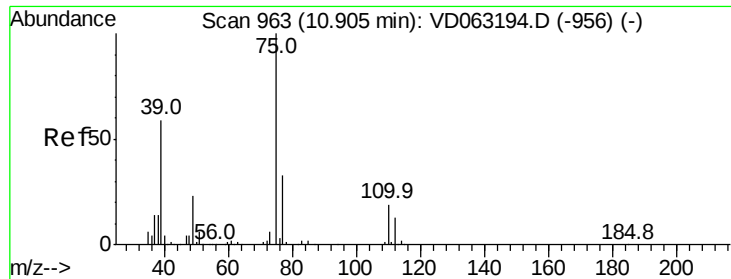
91 174.1 140.8 211.2



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

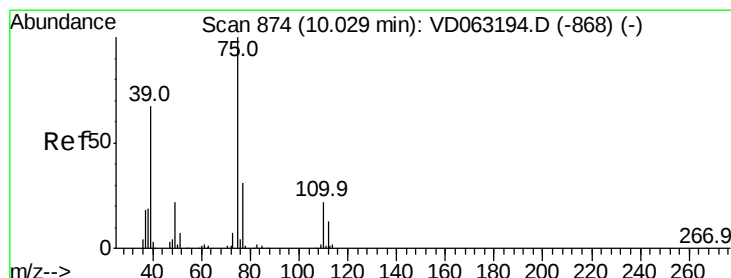
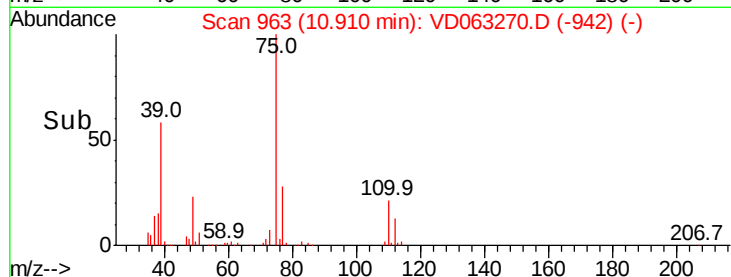
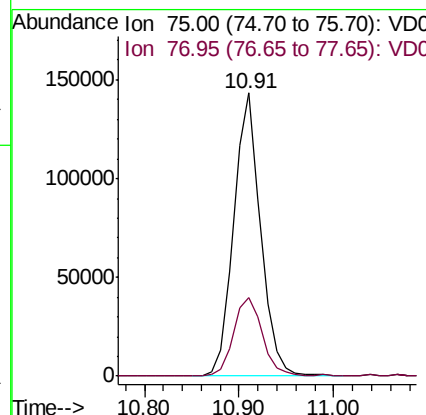
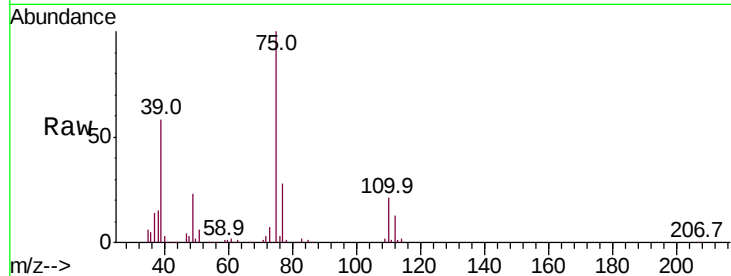




#53
 t-1,3-Dichloropropene
 Concen: 20.334 ug/l
 RT: 10.91 min Scan# 963
 Delta R.T. 0.01 min
 Lab File: VD063270.D
 Acq: 31 Jul 2019 11:16

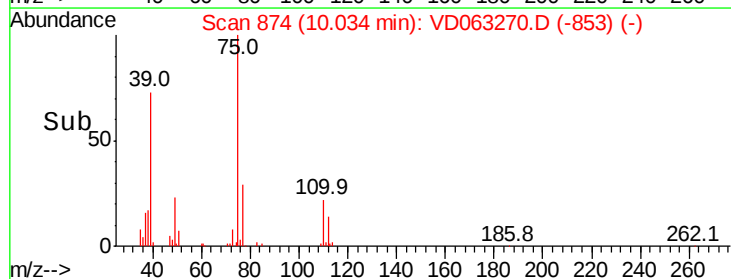
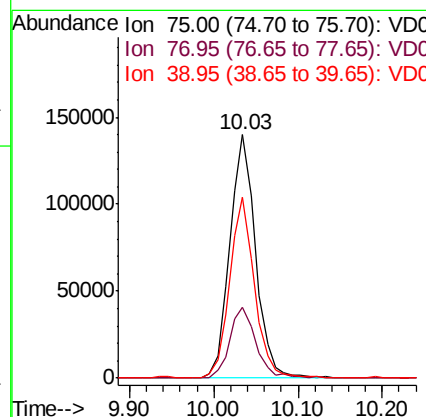
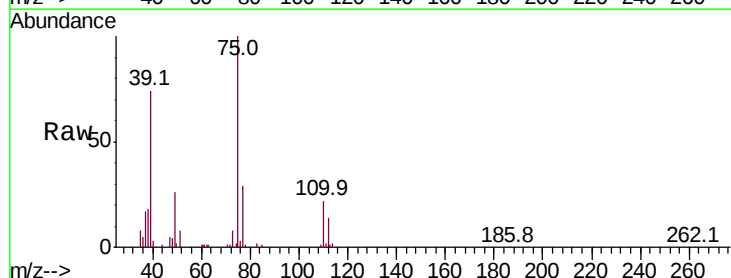
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0731SBS01

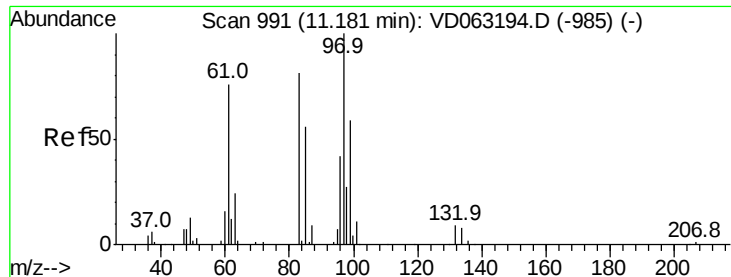
Tot Ion: 75 Resp: 280797
 Ion Ratio Lower Upper
 75 100
 77 28.0 26.6 40.0



#54
 cis-1,3-Dichloropropene
 Concen: 20.452 ug/l
 RT: 10.03 min Scan# 874
 Delta R.T. 0.01 min
 Lab File: VD063270.D
 Acq: 31 Jul 2019 11:16

Tgt Ion: 75 Resp: 296823
 Ion Ratio Lower Upper
 75 100
 77 29.0 24.9 37.3
 39 74.5 53.9 80.9





#55

1,1,2-Trichloroethane

Concen: 20.209 ug/l

RT: 11.19 min Scan# 991

Delta R.T. 0.01 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

Instrument :

MSVOA_D

ClientSampleId :

VD0731SBS01

Tot Ion: 97 Resp: 134972

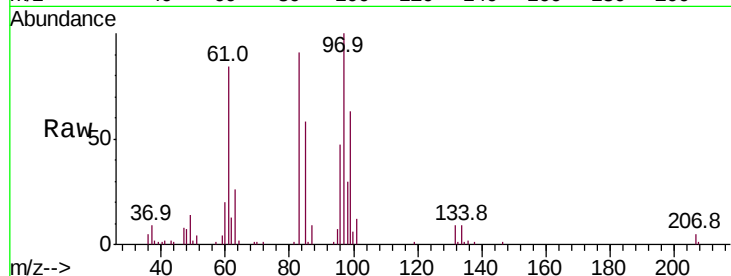
Ion Ratio Lower Upper

97 100

83 91.2 64.8 97.2

85 57.5 44.9 67.3

99 62.8 47.2 70.8

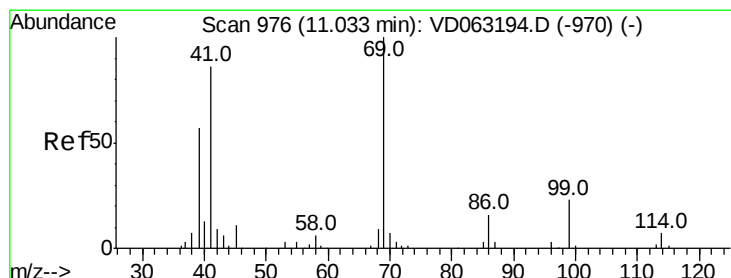
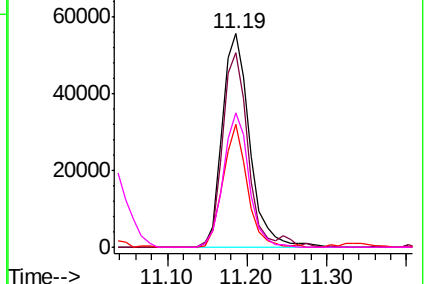
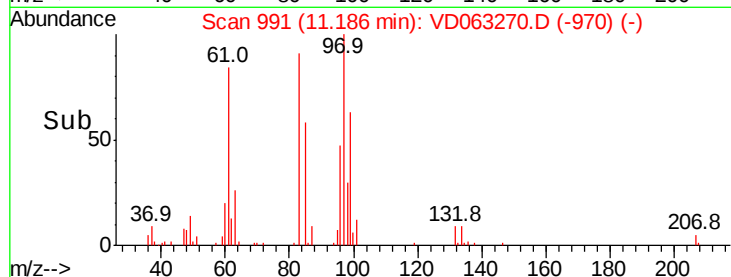


Abundance Ion 96.85 (96.55 to 97.55): VDC

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: 21.690 ug/l

RT: 11.04 min Scan# 976

Delta R.T. 0.01 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

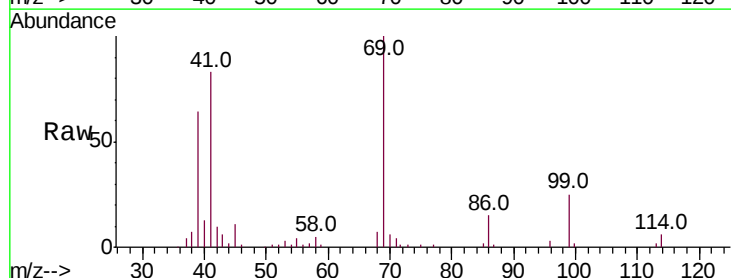
Tgt Ion: 69 Resp: 158627

Ion Ratio Lower Upper

69 100

41 83.4 68.8 103.2

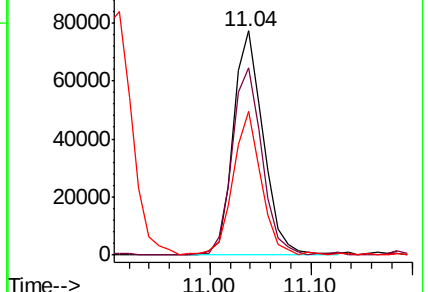
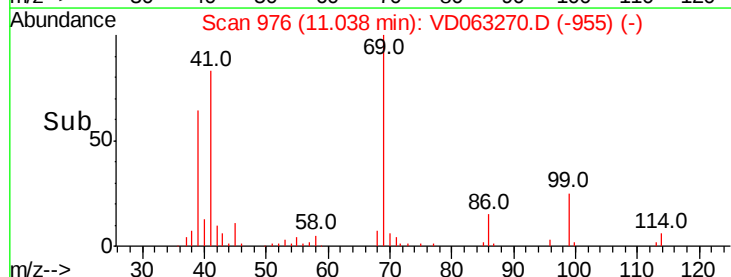
39 64.3 45.8 68.8

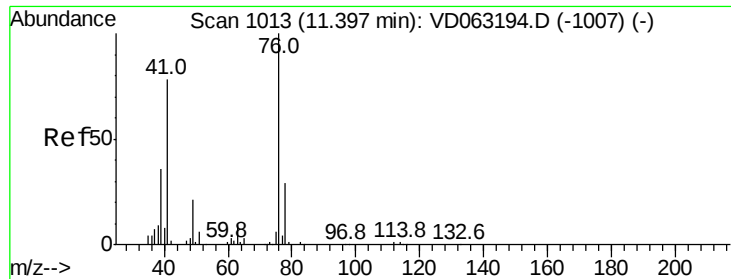


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 19.805 ug/l

RT: 11.40 min Scan# 1013

Delta R.T. 0.01 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

Instrument :

MSVOA_D

ClientSampleId :

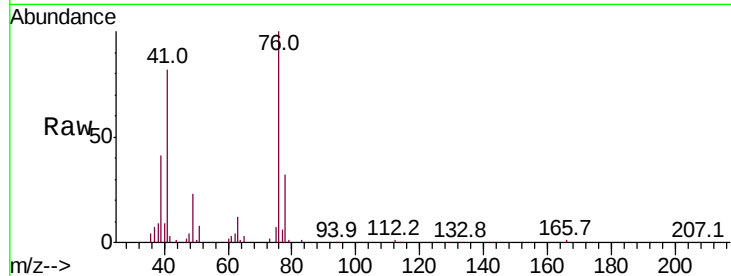
VD0731SBS01

Tot Ion: 76 Resp: 208405

Ion Ratio Lower Upper

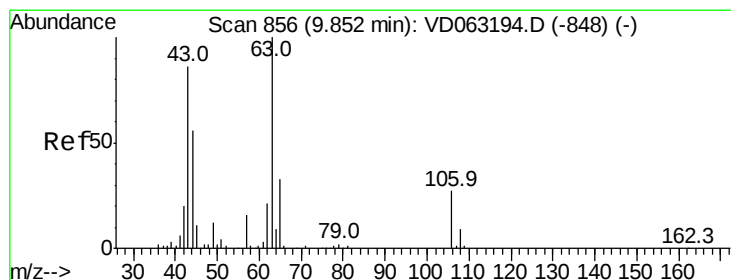
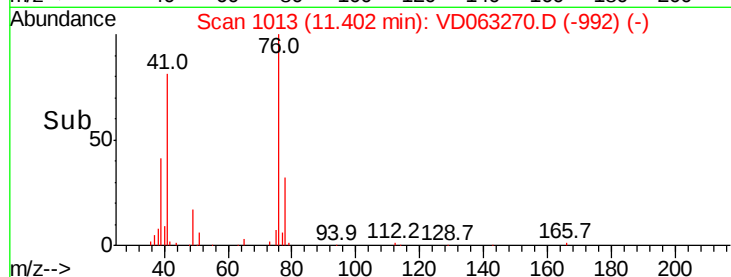
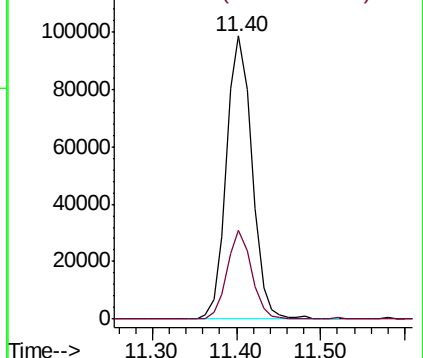
76 100

78 31.5 23.4 35.0



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 97.526 ug/l

RT: 9.86 min Scan# 856

Delta R.T. 0.01 min

Lab File: VD063270.D

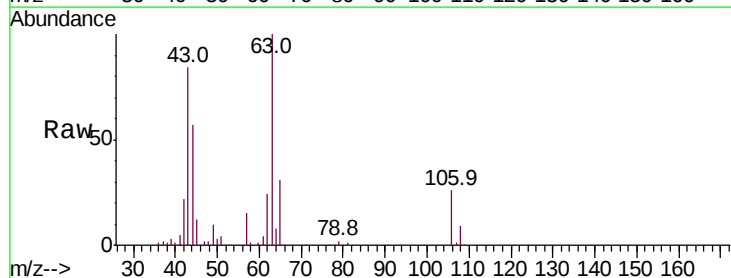
Acq: 31 Jul 2019 11:16

Tgt Ion: 63 Resp: 371130

Ion Ratio Lower Upper

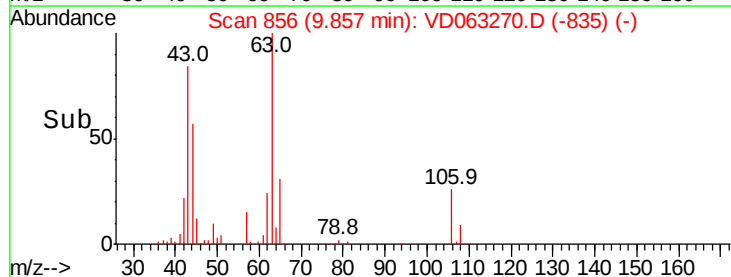
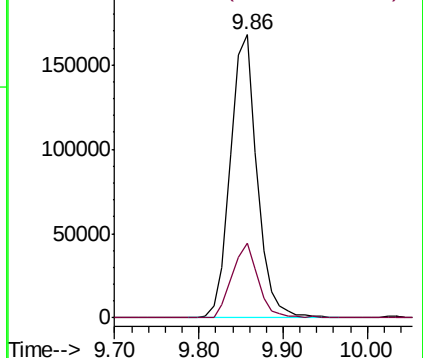
63 100

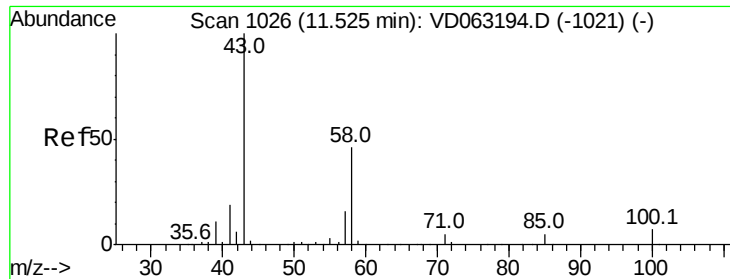
106 26.4 22.0 33.0



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

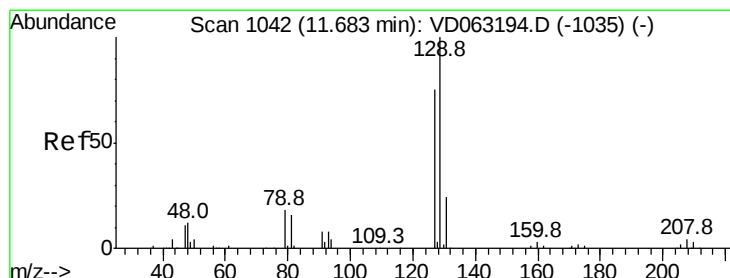
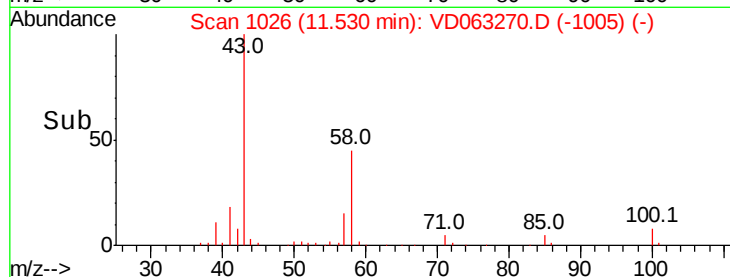
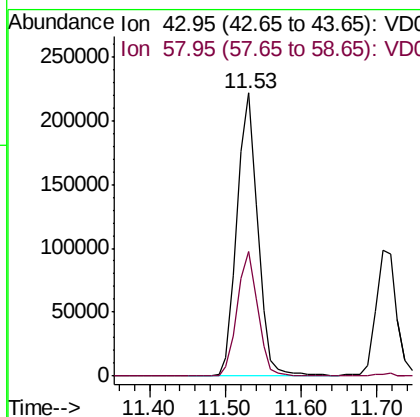
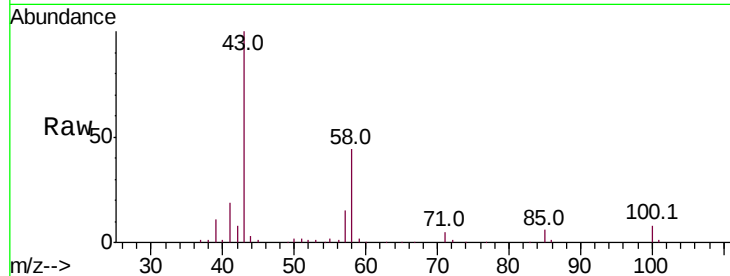




#59
2-Hexanone
Concen: 105.333 ug/l
RT: 11.53 min Scan# 1026
Delta R.T. 0.01 min
Lab File: VD063270.D
Acq: 31 Jul 2019 11:16

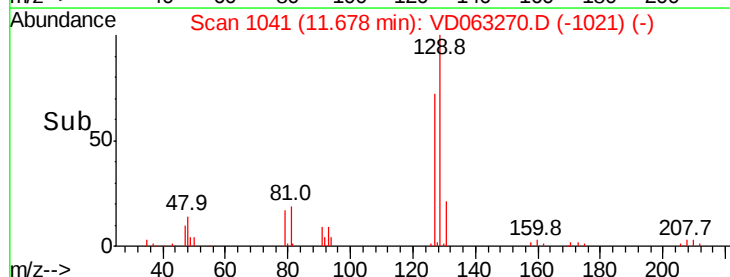
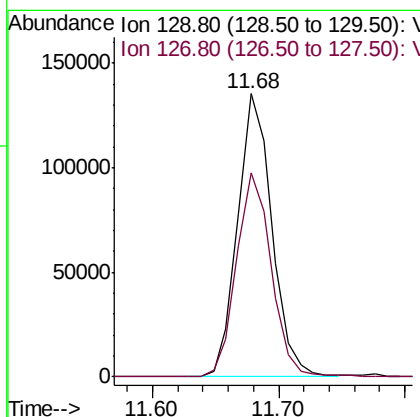
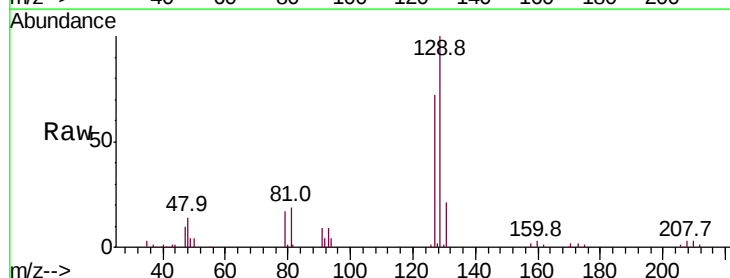
Instrument :
MSVOA_D
ClientSampleId :
VD0731SBS01

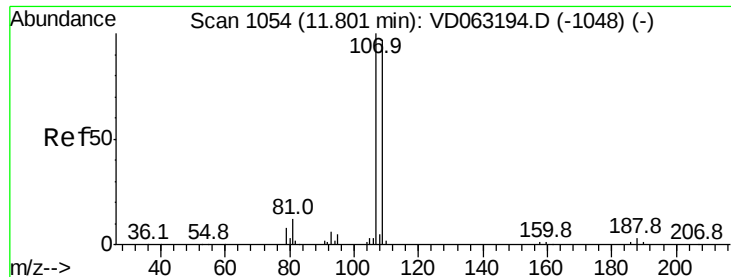
Tot Ion: 43 Resp: 420287
Ion Ratio Lower Upper
43 100
58 44.2 22.9 68.5



#60
Dibromochloromethane
Concen: 20.176 ug/l
RT: 11.68 min Scan# 1041
Delta R.T. -0.00 min
Lab File: VD063270.D
Acq: 31 Jul 2019 11:16

Tgt Ion: 129 Resp: 254387
Ion Ratio Lower Upper
129 100
127 71.9 37.6 112.8





#61

1,2-Dibromoethane

Concen: 20.943 ug/l

RT: 11.81 min Scan# 1054

Delta R.T. 0.01 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

Instrument :

MSVOA_D

ClientSampleId :

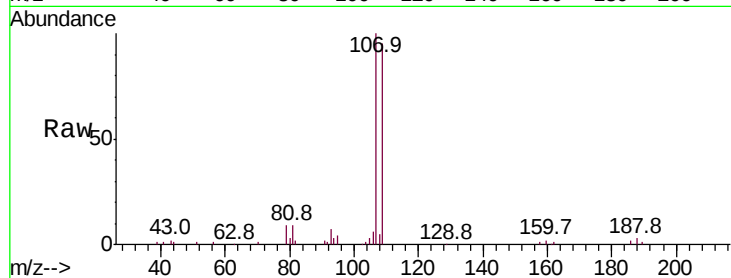
VD0731SBS01

Tot Ion:107 Resp: 172593

Ion Ratio Lower Upper

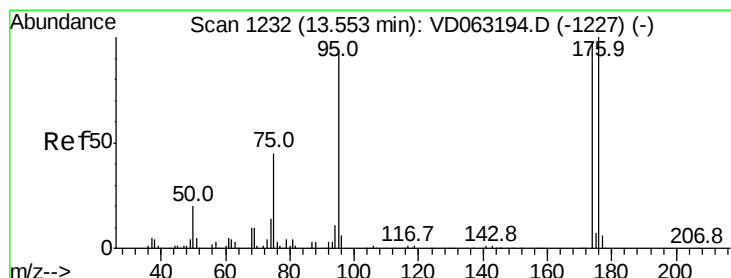
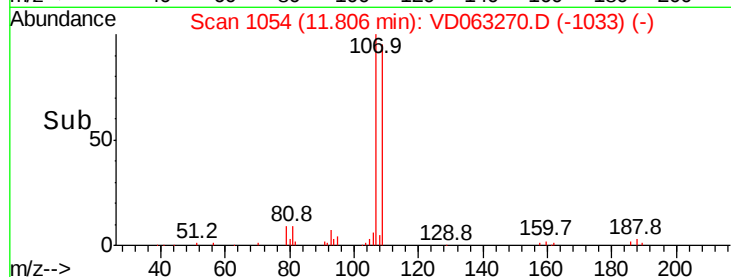
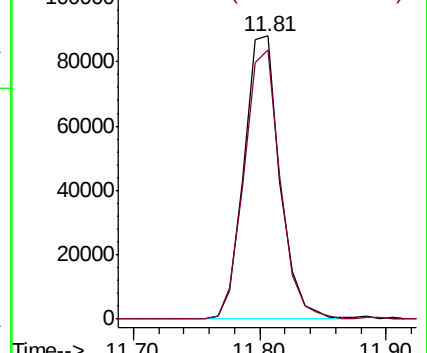
107 100

109 95.1 77.5 116.3



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V



#62

4-Bromofluorobenzene

Concen: 45.814 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. -0.00 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

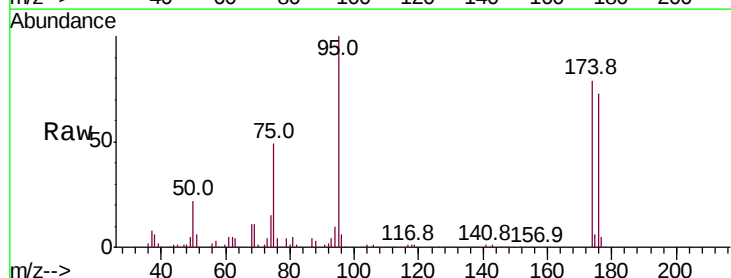
Tgt Ion: 95 Resp: 620110

Ion Ratio Lower Upper

95 100

174 78.5 0.0 205.4

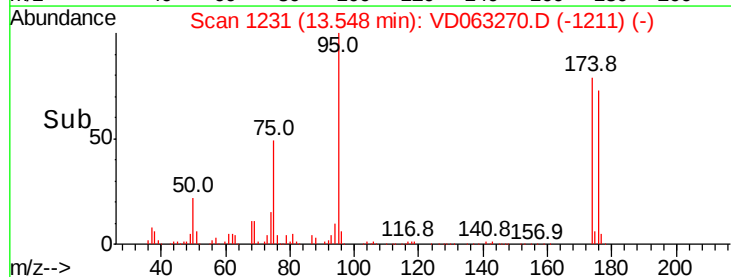
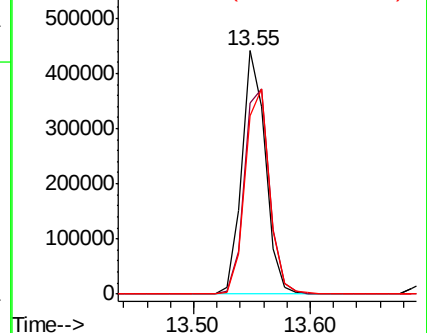
176 73.3 0.0 211.8

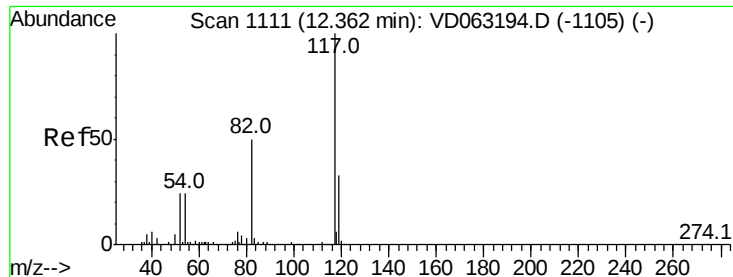


Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

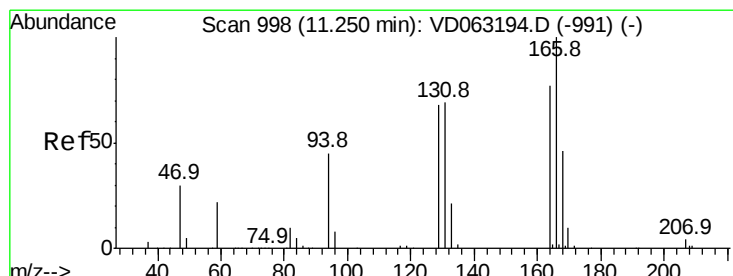
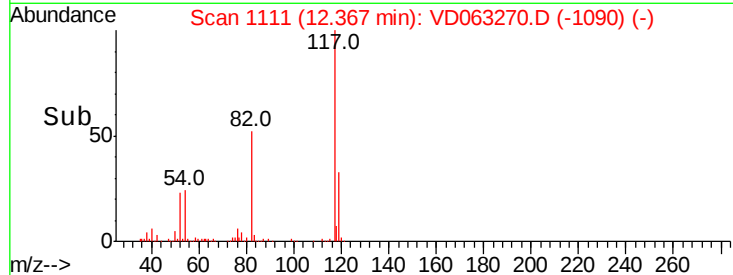
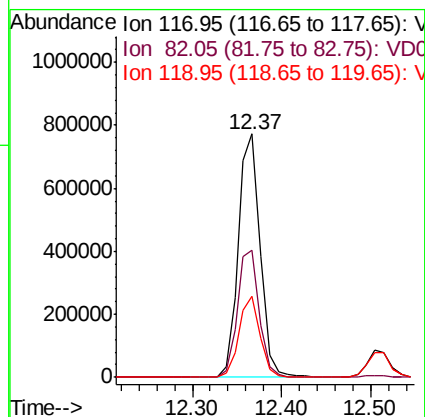
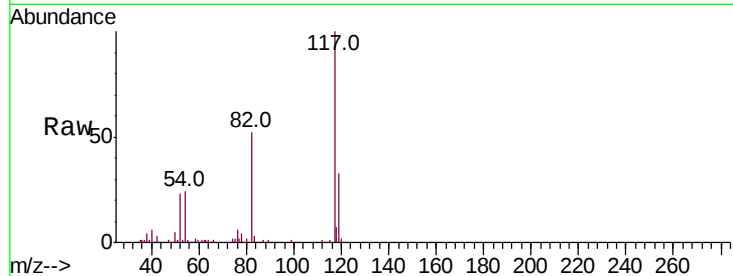




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1111
Delta R.T. 0.01 min
Lab File: VD063270.D
Acq: 31 Jul 2019 11:16

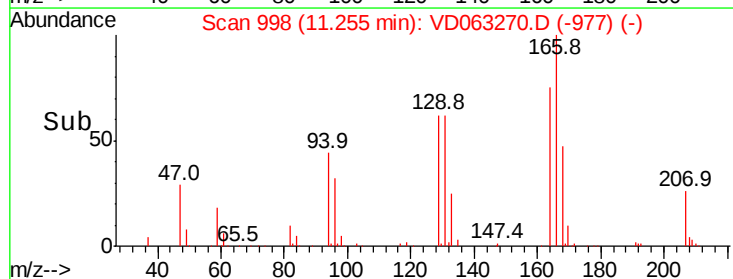
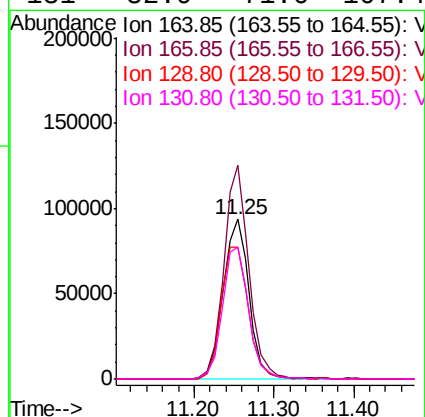
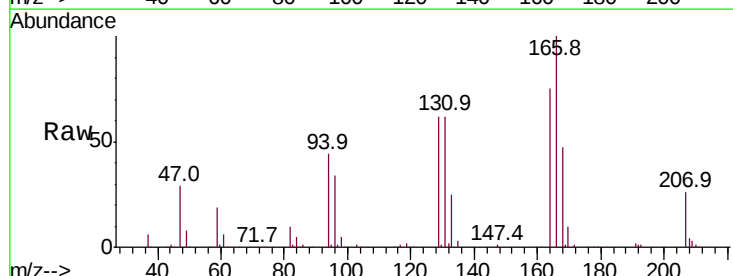
Instrument :
MSVOA_D
ClientSampleId :
VD0731SBS01

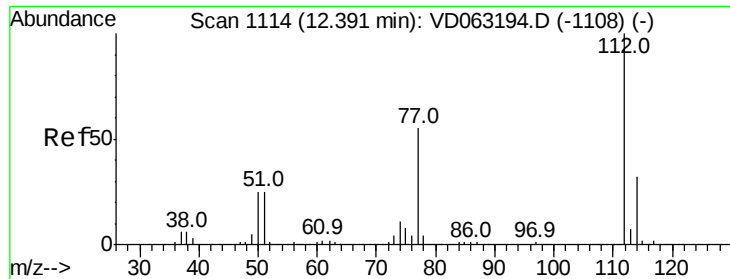
Tot Ion:117 Resp: 1326129
Ion Ratio Lower Upper
117 100
82 52.0 40.1 60.1
119 33.1 26.5 39.7



#64
Tetrachloroethene
Concen: 20.331 ug/l
RT: 11.25 min Scan# 998
Delta R.T. 0.01 min
Lab File: VD063270.D
Acq: 31 Jul 2019 11:16

Tgt Ion:164 Resp: 214796
Ion Ratio Lower Upper
164 100
166 133.7 104.3 156.5
129 82.9 70.9 106.3
131 82.9 71.6 107.4

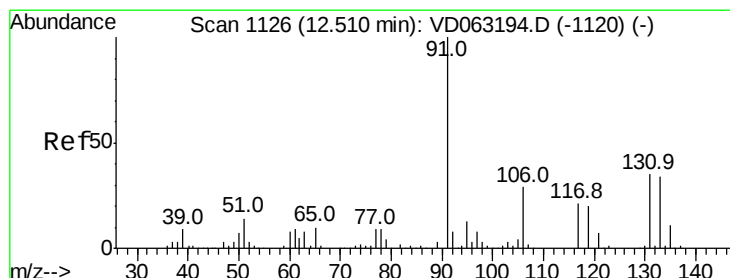
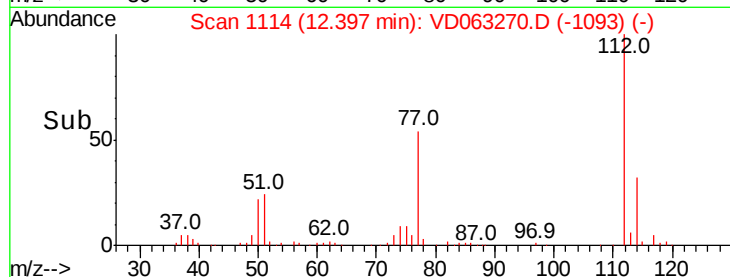
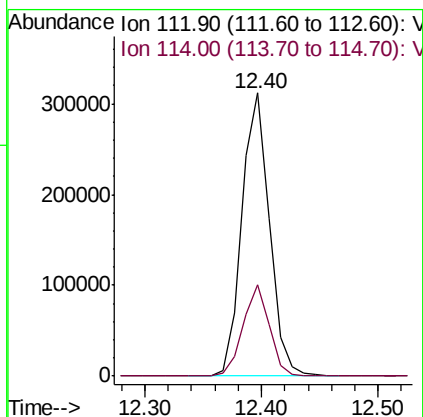
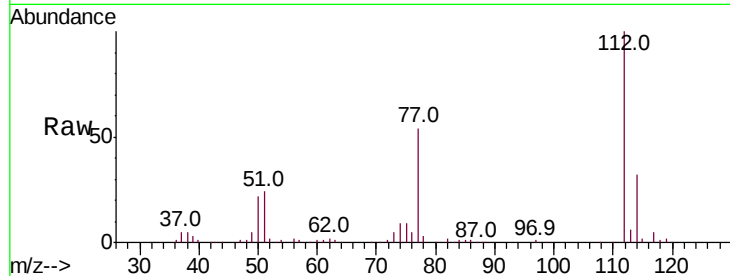




#65
Chlorobenzene
Concen: 19.997 ug/l
RT: 12.40 min Scan# 1114
Delta R.T. 0.01 min
Lab File: VD063270.D
Acq: 31 Jul 2019 11:16

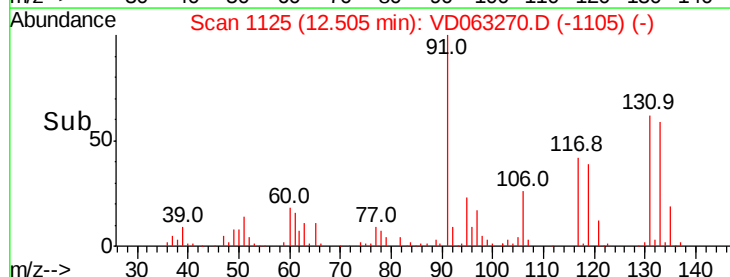
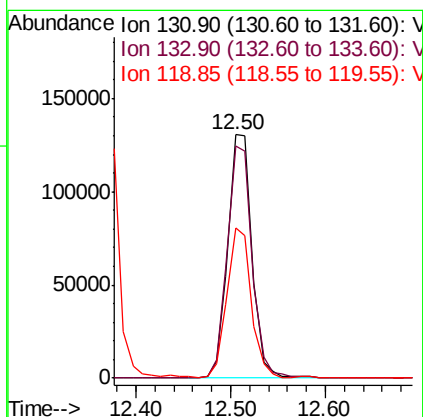
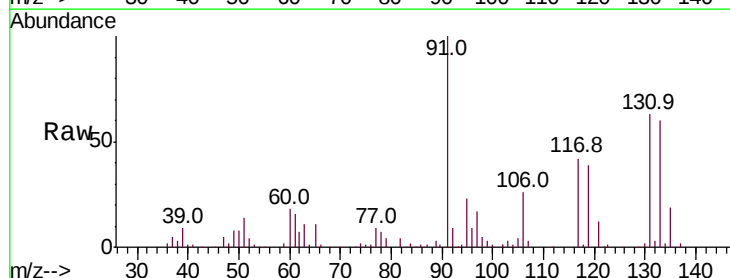
Instrument :
MSVOA_D
ClientSampleId :
VD0731SBS01

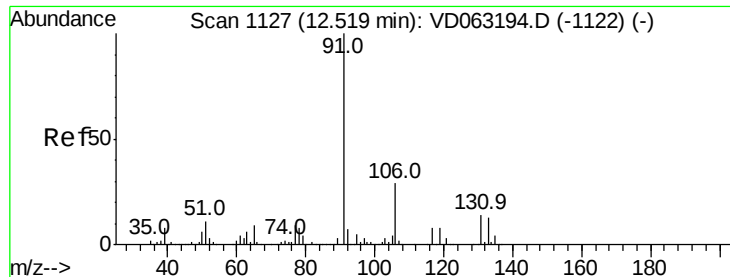
Tot Ion:112 Resp: 510081
Ion Ratio Lower Upper
112 100
114 32.2 25.8 38.8



#66
1,1,1,2-Tetrachloroethane
Concen: 20.574 ug/l
RT: 12.50 min Scan# 1125
Delta R.T. -0.00 min
Lab File: VD063270.D
Acq: 31 Jul 2019 11:16

Tgt Ion:131 Resp: 231162
Ion Ratio Lower Upper
131 100
133 95.2 48.4 145.2
119 61.6 29.1 87.3





#67

Ethyl Benzene

Concen: 20.295 ug/l

RT: 12.51 min Scan# 1126

Delta R.T. -0.00 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

Instrument :

MSVOA_D

ClientSampleId :

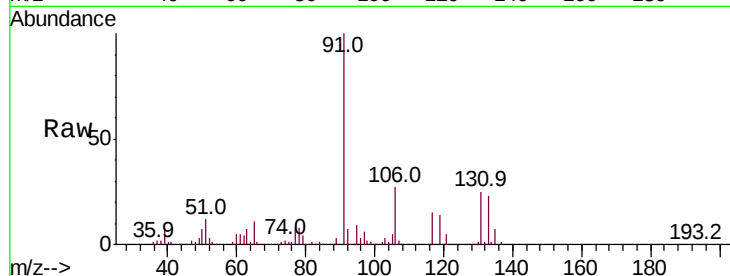
VD0731SBS01

Tot Ion: 91 Resp: 879421

Ion Ratio Lower Upper

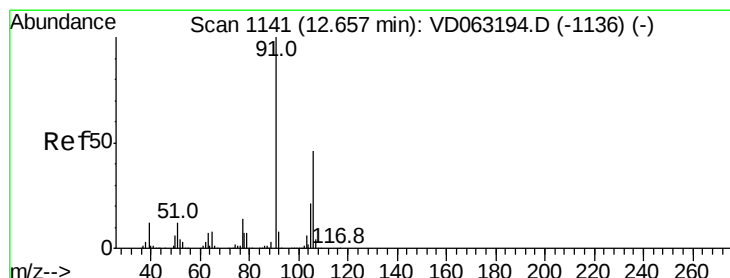
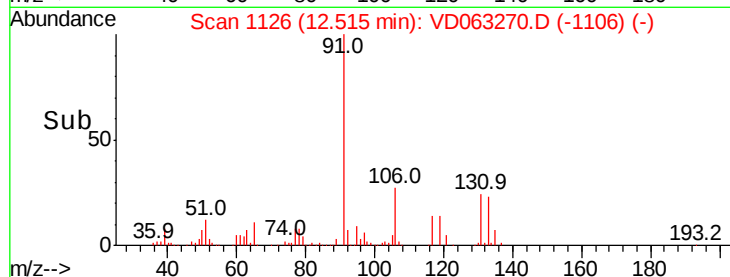
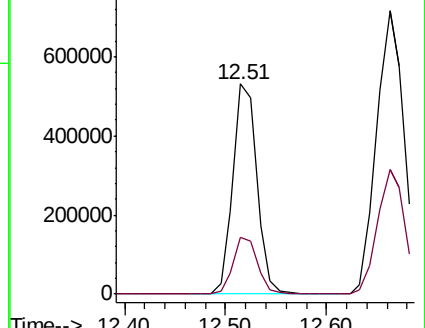
91 100

106 27.2 22.9 34.3



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.05 (105.75 to 106.75): V



#68

m/p-Xylenes

Concen: 37.996 ug/l

RT: 12.66 min Scan# 1141

Delta R.T. 0.01 min

Lab File: VD063270.D

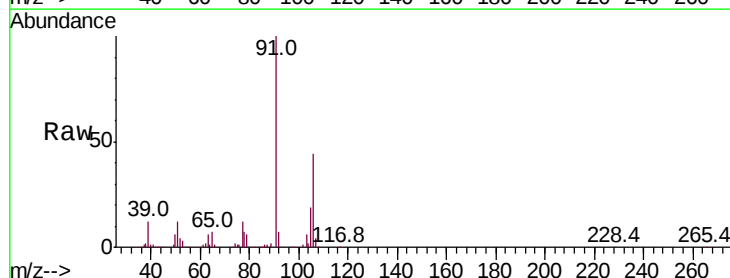
Acq: 31 Jul 2019 11:16

Tgt Ion: 106 Resp: 603794

Ion Ratio Lower Upper

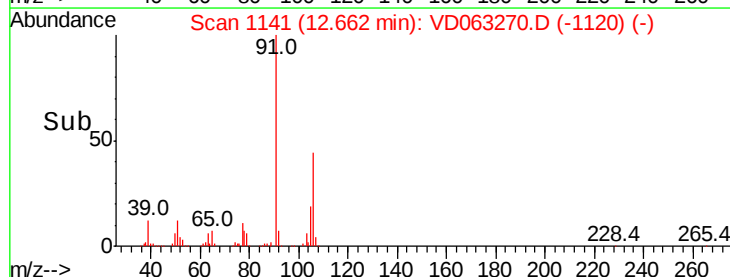
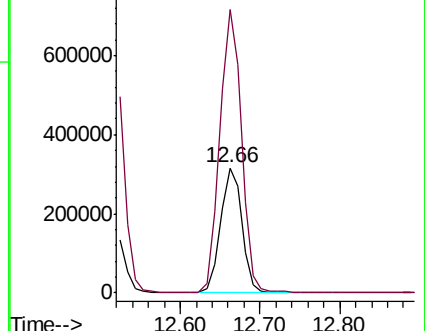
106 100

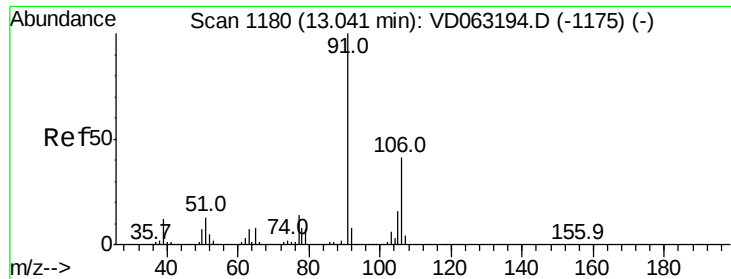
91 226.7 172.6 259.0



Abundance Ion 106.05 (105.75 to 106.75): V

Ion 91.00 (90.70 to 91.70): V

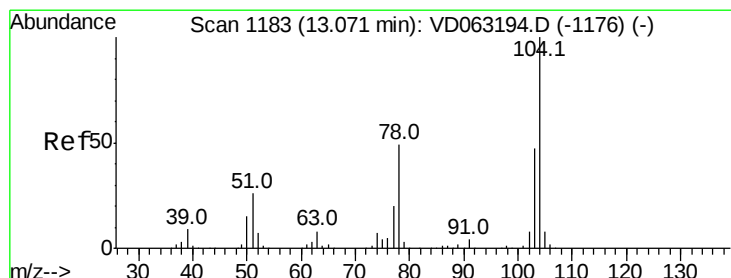
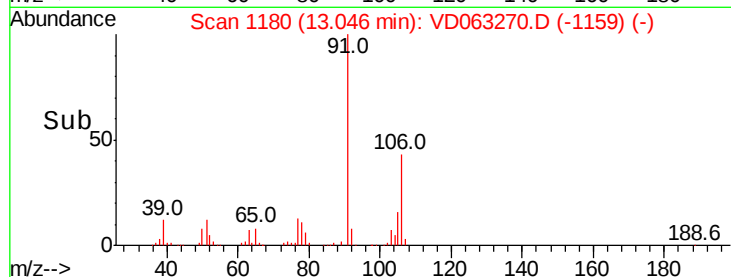
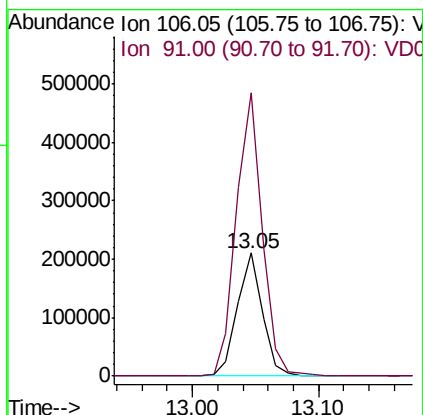
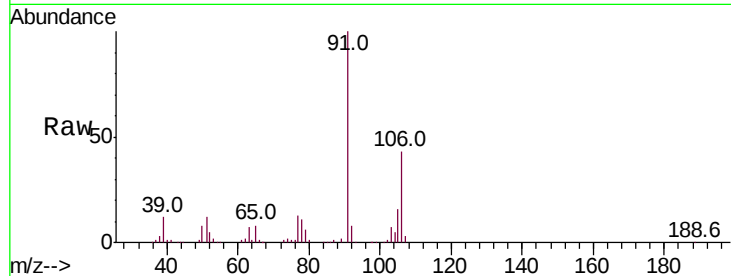




#69
o-Xylene
Concen: 19.704 ug/l
RT: 13.05 min Scan# 1180
Delta R.T. 0.01 min
Lab File: VD063270.D
Acq: 31 Jul 2019 11:16

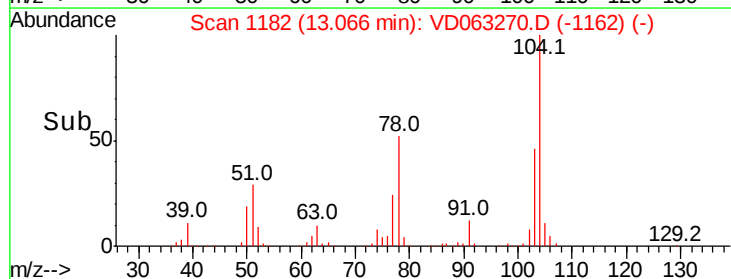
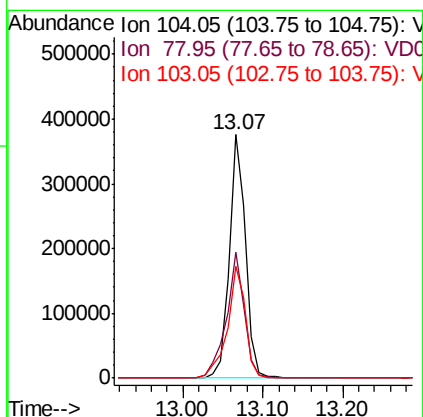
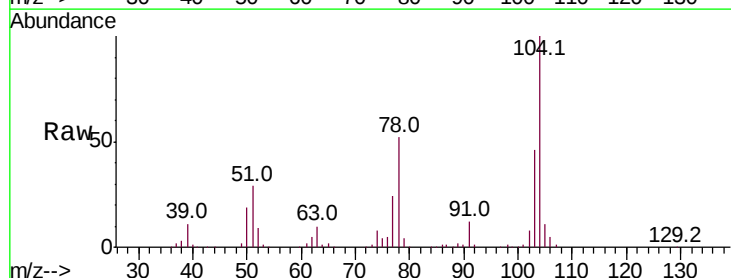
Instrument :
MSVOA_D
ClientSampleId :
VD0731SBS01

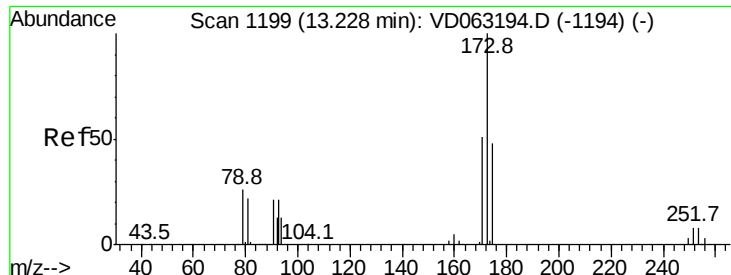
Tot Ion:106 Resp: 287541
Ion Ratio Lower Upper
106 100
91 230.3 121.3 363.9



#70
Styrene
Concen: 20.799 ug/l
RT: 13.07 min Scan# 1182
Delta R.T. -0.00 min
Lab File: VD063270.D
Acq: 31 Jul 2019 11:16

Tgt Ion:104 Resp: 538263
Ion Ratio Lower Upper
104 100
78 51.5 39.4 59.0
103 46.2 37.4 56.2

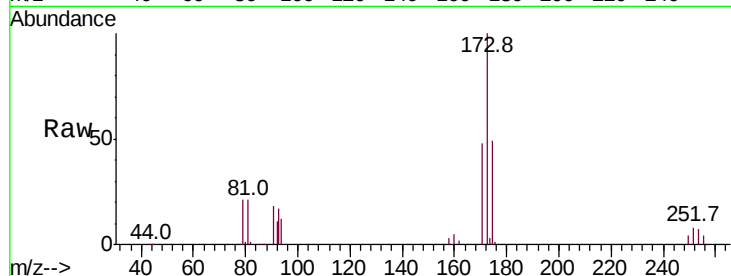




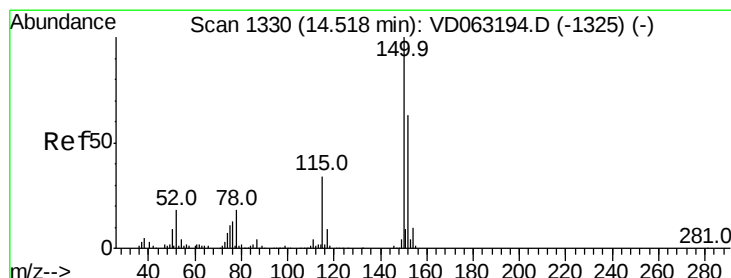
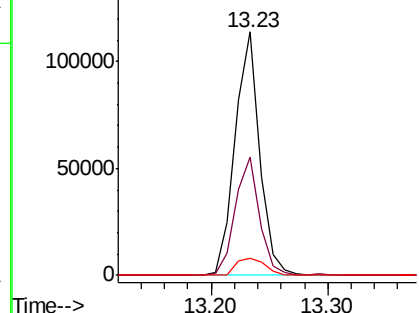
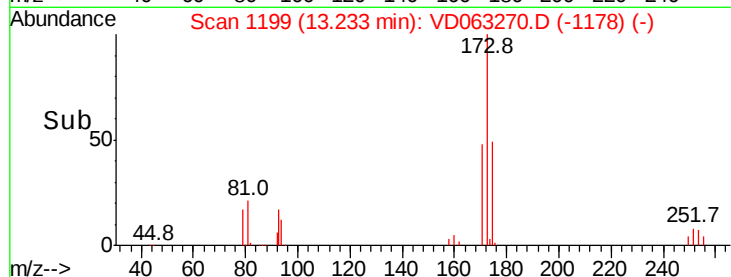
#71
Bromoform
Concen: 20.353 ug/l
RT: 13.23 min Scan# 1199
Delta R.T. 0.01 min
Lab File: VD063270.D
Acq: 31 Jul 2019 11:16

Instrument :
MSVOA_D
ClientSampleId :
VD0731SBS01

Tot Ion:173 Resp: 166299
Ion Ratio Lower Upper
173 100
175 48.5 23.8 71.5
254 6.8 6.6 10.0

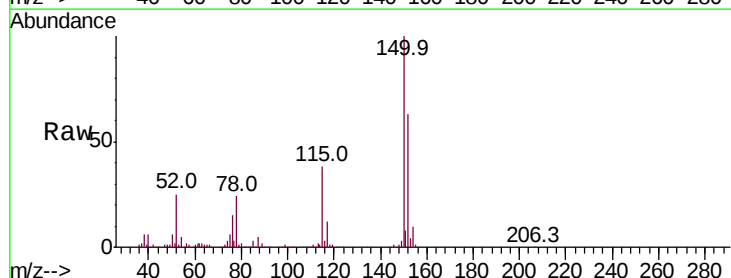


Abundance Ion 172.80 (172.50 to 173.50): V
Ion 174.80 (174.50 to 175.50): V
Ion 253.70 (253.40 to 254.40): V

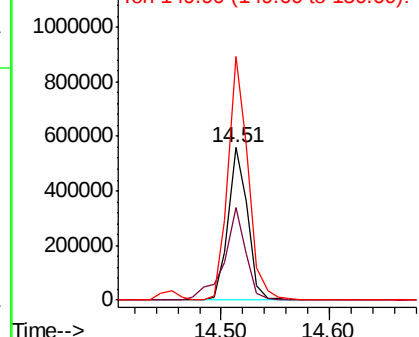
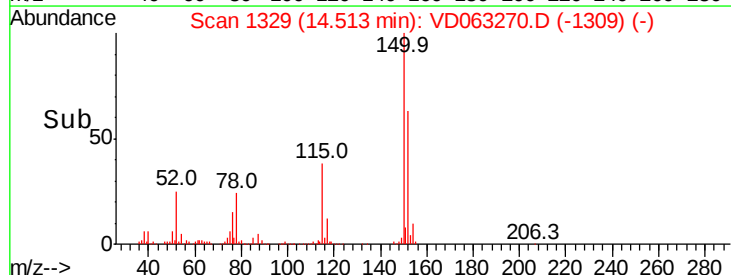


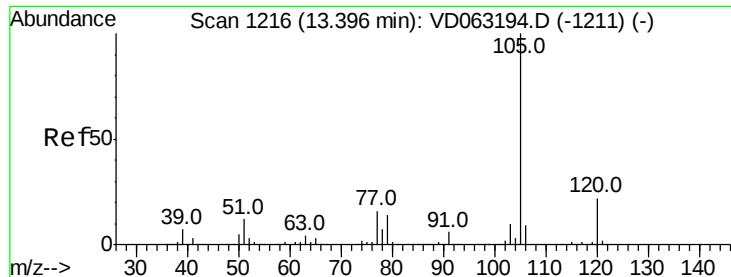
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.00 min
Lab File: VD063270.D
Acq: 31 Jul 2019 11:16

Tgt Ion:152 Resp: 694014
Ion Ratio Lower Upper
152 100
115 61.0 27.5 82.4
150 159.8 0.0 320.6



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





#73

Isopropylbenzene

Concen: 21.479 ug/l

RT: 13.40 min Scan# 1216

Delta R.T. 0.01 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

Instrument :

MSVOA_D

ClientSampleId :

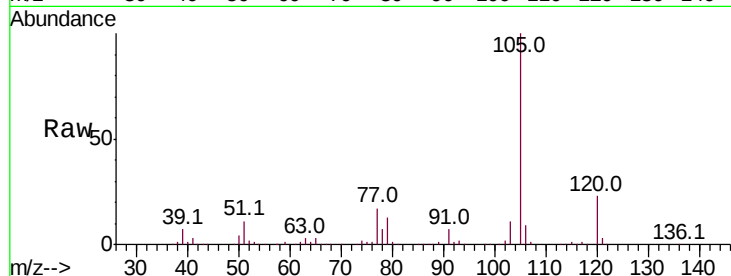
VD0731SBS01

Tot Ion:105 Resp: 935609

Ion Ratio Lower Upper

105 100

120 23.4 11.1 33.3



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

13.40

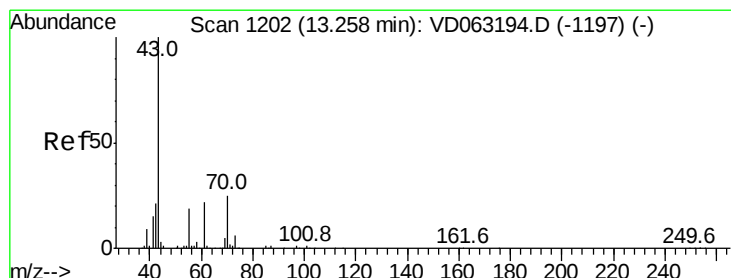
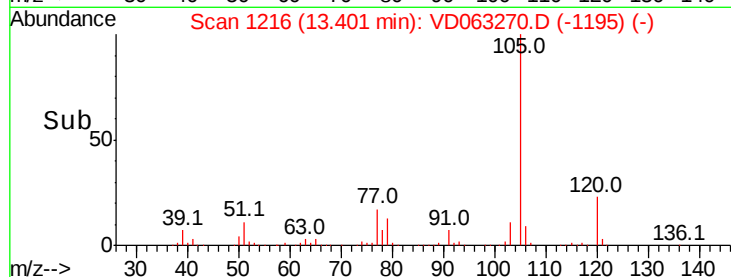
600000

400000

200000

0

Time--> 13.30 13.40 13.50



#74

N-ethyl acetate

Concen: 19.842 ug/l

RT: 13.26 min Scan# 1202

Delta R.T. 0.01 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

Tgt Ion: 43 Resp: 228483

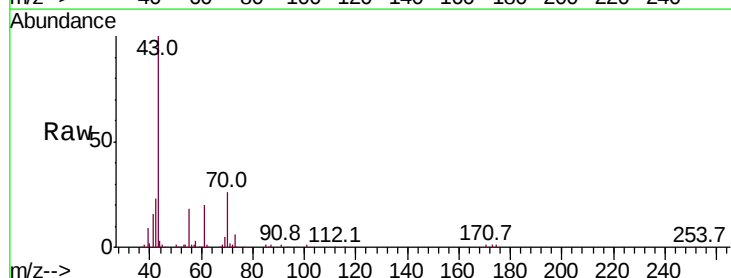
Ion Ratio Lower Upper

43 100

70 25.7 20.2 30.4

55 18.0 14.9 22.3

61 20.3 17.9 26.9



Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V

300000

250000

200000

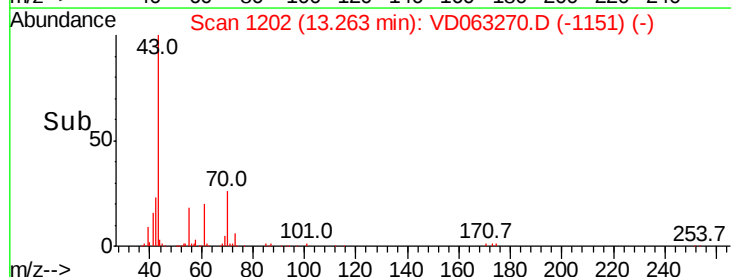
150000

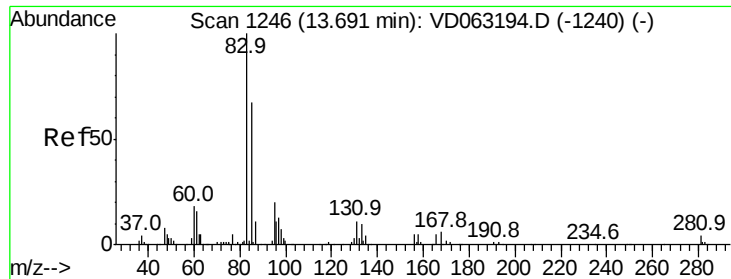
100000

50000

0

Time--> 13.20 13.30 13.40





#75

1,1,2,2-Tetrachloroethane

Concen: 20.670 ug/l

RT: 13.70 min Scan# 1246

Delta R.T. 0.01 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

Instrument :

MSVOA_D

ClientSampleId :

VD0731SBS01

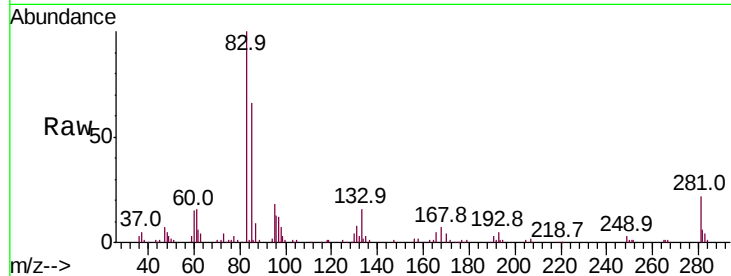
Tot Ion: 83 Resp: 152941

Ion Ratio Lower Upper

83 100

131 8.1 5.5 16.7

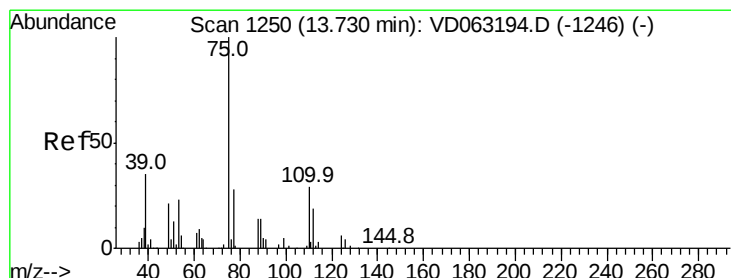
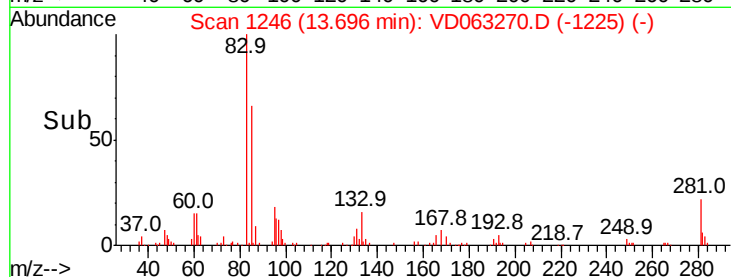
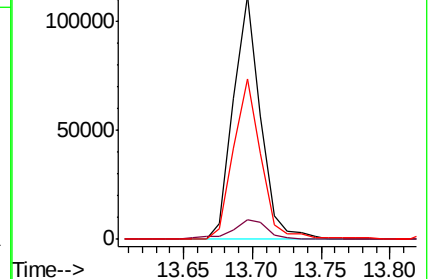
85 65.8 33.7 101.1



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: 20.620 ug/l

RT: 13.73 min Scan# 1249

Delta R.T. -0.00 min

Lab File: VD063270.D

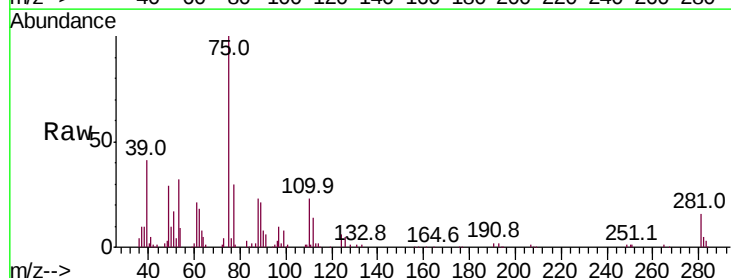
Acq: 31 Jul 2019 11:16

Tgt Ion: 75 Resp: 171886

Ion Ratio Lower Upper

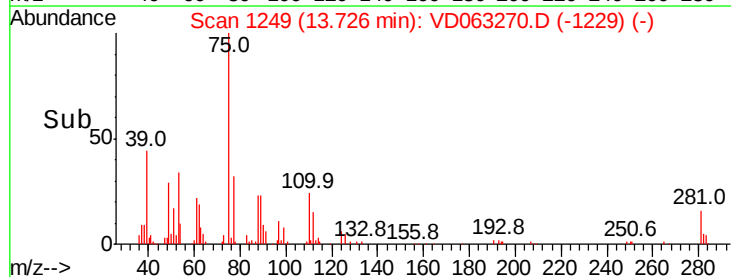
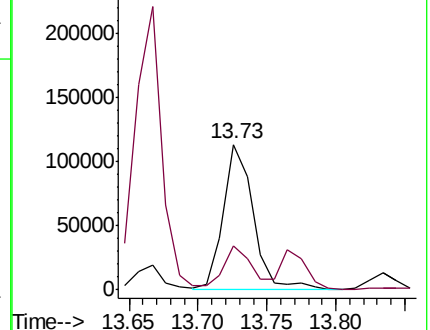
75 100

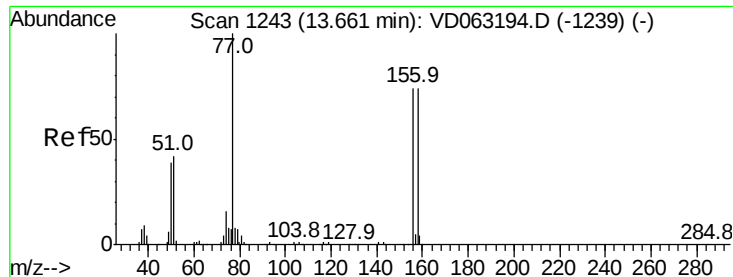
77 30.3 16.0 48.0



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 20.402 ug/l

RT: 13.67 min Scan# 1243

Delta R.T. 0.01 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

Instrument :

MSVOA_D

ClientSampleId :

VD0731SBS01

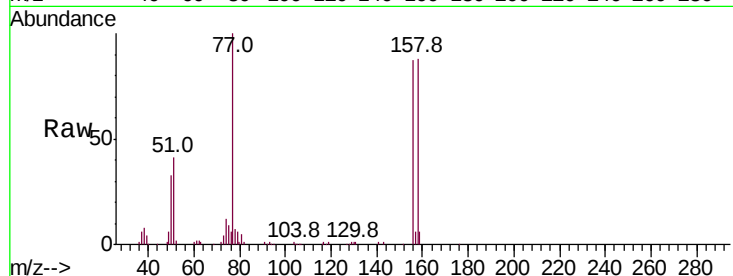
Tot Ion:156 Resp: 253161

Ion Ratio Lower Upper

156 100

77 114.4 67.6 202.8

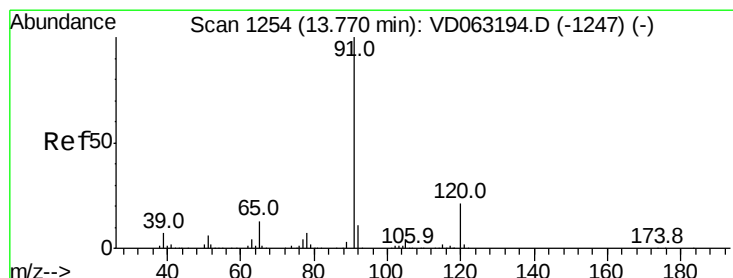
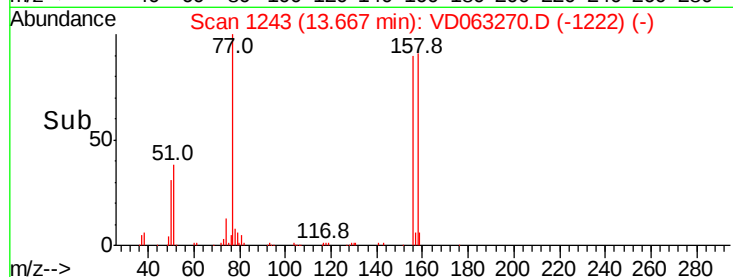
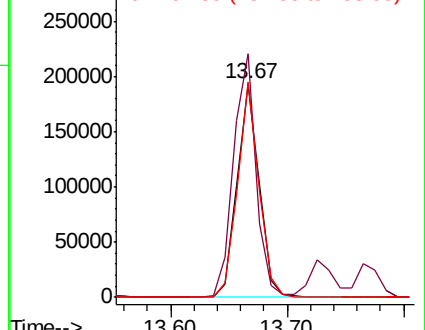
158 101.1 49.8 149.4



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): VDC

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 19.849 ug/l

RT: 13.77 min Scan# 1253

Delta R.T. -0.00 min

Lab File: VD063270.D

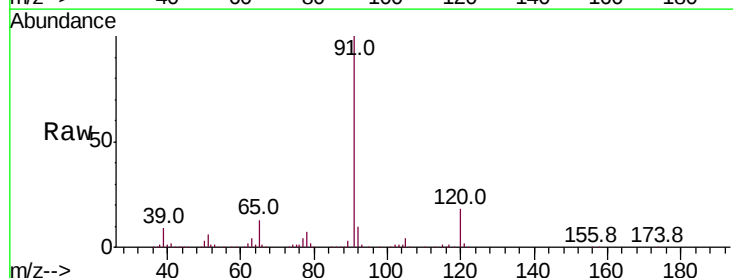
Acq: 31 Jul 2019 11:16

Tgt Ion: 91 Resp: 1028861

Ion Ratio Lower Upper

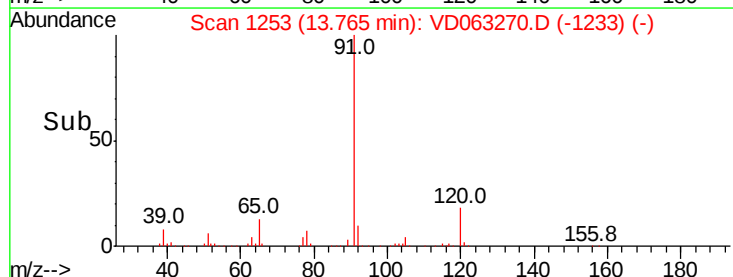
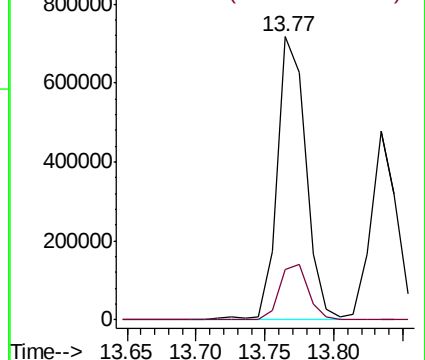
91 100

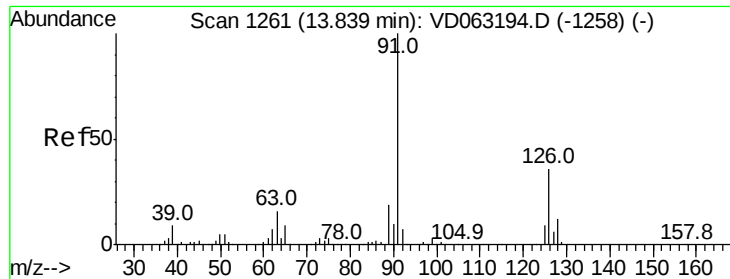
120 18.0 10.7 32.1



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 20.887 ug/l

RT: 13.83 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

Instrument :

MSVOA_D

ClientSampleId :

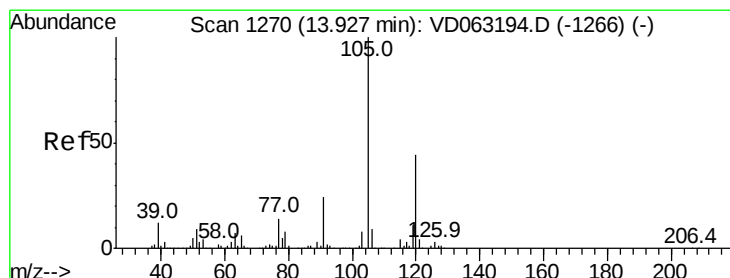
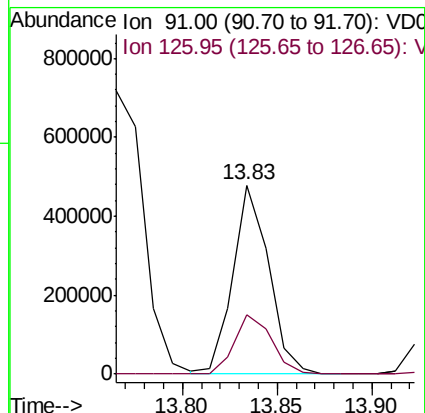
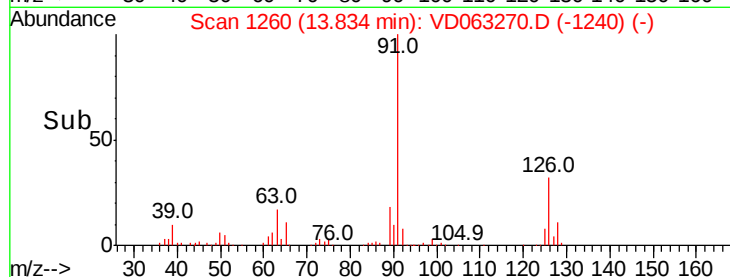
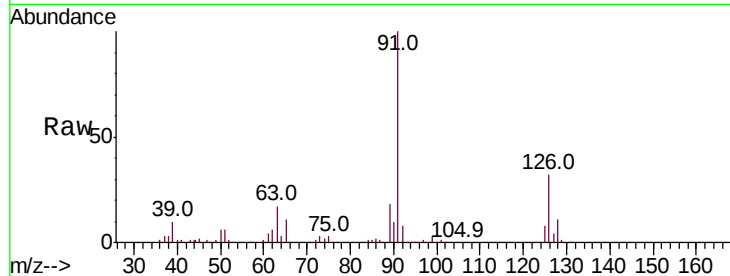
VD0731SBS01

Tot Ion: 91 Resp: 627359

Ion Ratio Lower Upper

91 100

126 31.6 17.8 53.5



#80

1,3,5-Trimethylbenzene

Concen: 21.716 ug/l

RT: 13.93 min Scan# 1270

Delta R.T. 0.01 min

Lab File: VD063270.D

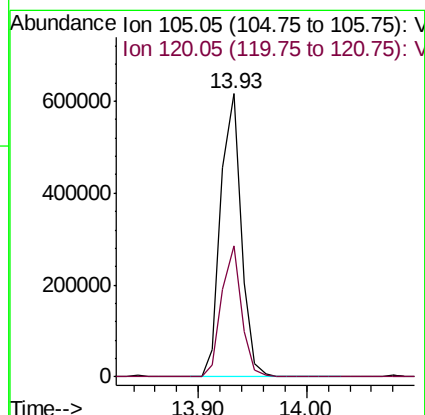
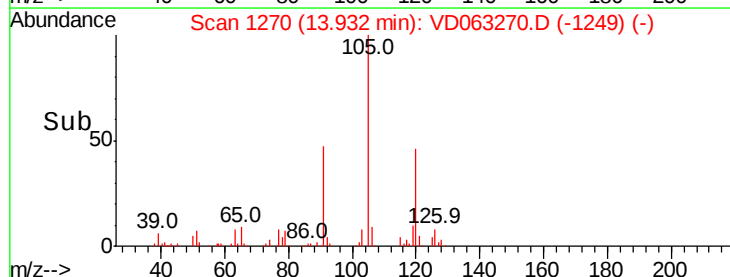
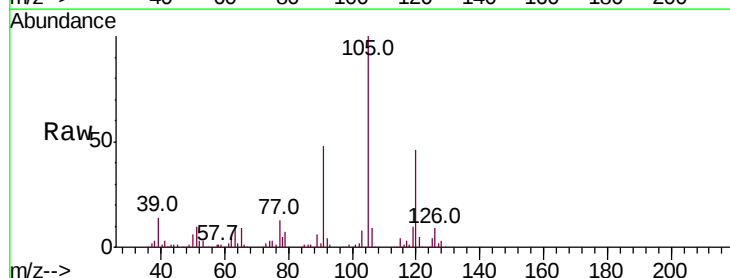
Acq: 31 Jul 2019 11:16

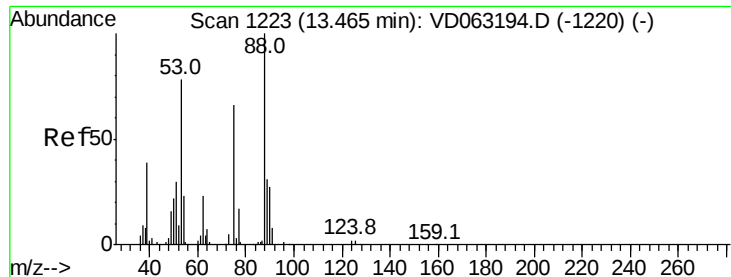
Tgt Ion:105 Resp: 815835

Ion Ratio Lower Upper

105 100

120 46.1 22.1 66.1





#81

trans-1,4-Dichloro-2-butene

Concen: 19.194 ug/l

RT: 13.47 min Scan# 1223

Delta R.T. 0.01 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

Instrument :

MSVOA_D

ClientSampleId :

VD0731SBS01

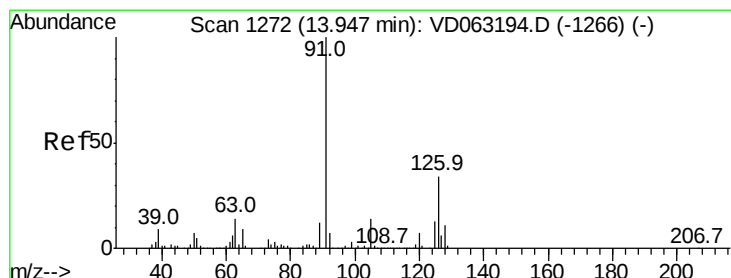
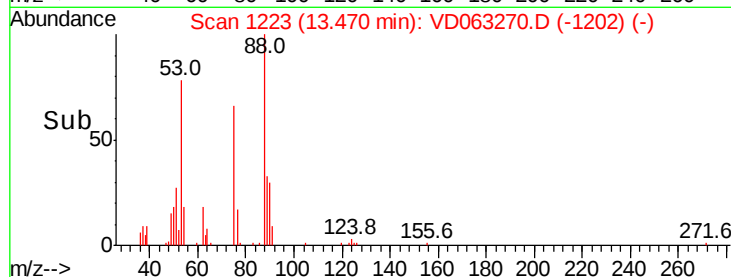
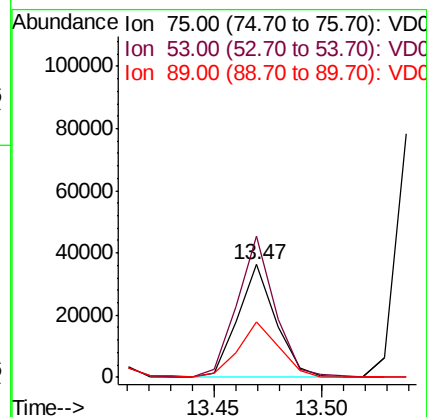
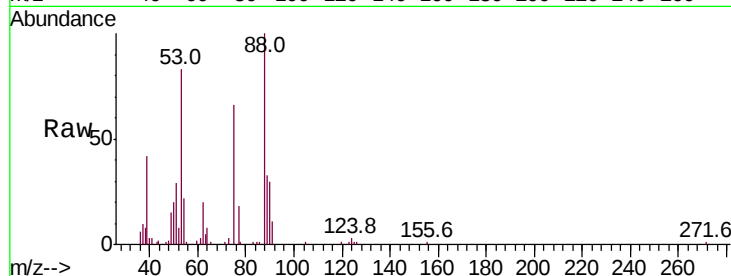
Tot Ion: 75 Resp: 44430

Ion	Ratio	Lower	Upper
75	100		
53	125.3	94.9	142.3
89	49.5	37.4	56.0

75 100

53 125.3 94.9 142.3

89 49.5 37.4 56.0



#82

4-Chlorotoluene

Concen: 21.968 ug/l

RT: 13.94 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VD063270.D

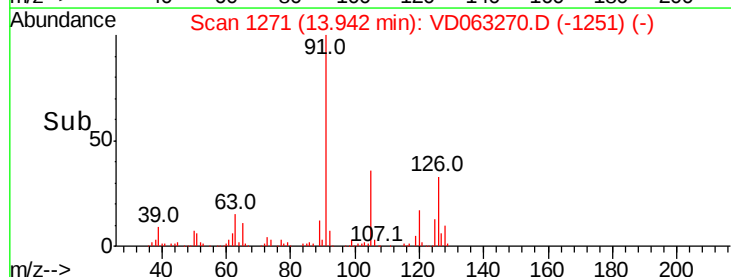
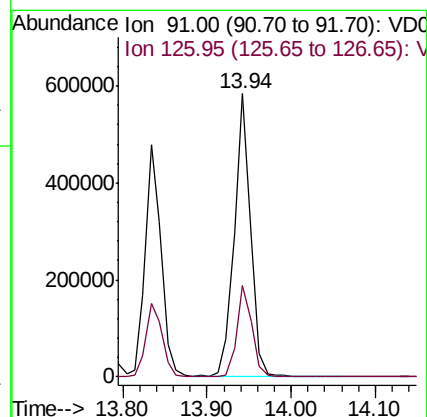
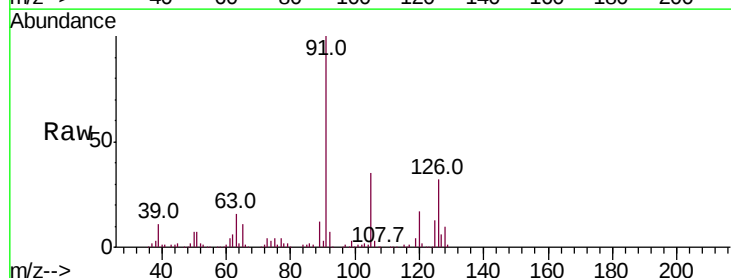
Acq: 31 Jul 2019 11:16

Tgt Ion: 91 Resp: 776517

Ion	Ratio	Lower	Upper
91	100		
126	32.3	17.1	51.2

91 100

126 32.3 17.1 51.2





#83

tert-Butylbenzene

Concen: 19.717 ug/l

RT: 14.19 min Scan# 1296

Delta R.T. 0.01 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

Instrument :

MSVOA_D

ClientSampleId :

VD0731SBS01

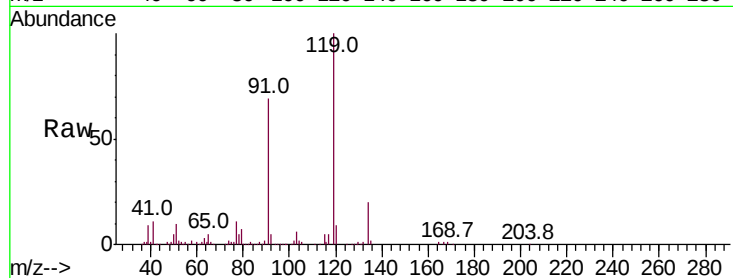
Tot Ion:119 Resp: 845802

Ion Ratio Lower Upper

119 100

91 69.1 39.1 117.5

134 19.9 10.9 32.6



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V

600000

500000

400000

300000

200000

100000

0

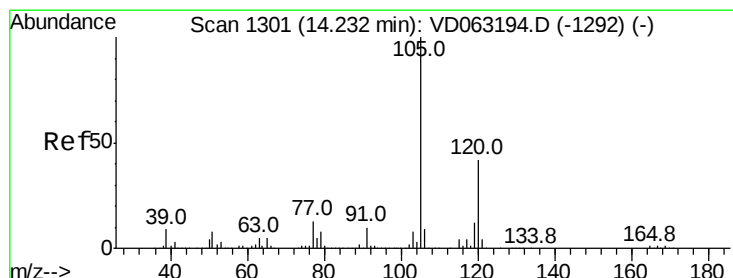
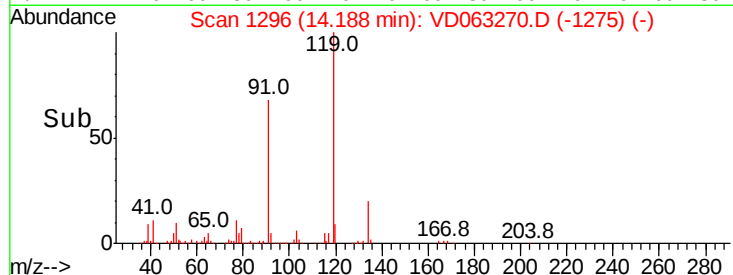
14.19

14.10

14.20

14.30

Time-->



#84

1,2,4-Trimethylbenzene

Concen: 17.625 ug/l

RT: 14.24 min Scan# 1301

Delta R.T. 0.01 min

Lab File: VD063270.D

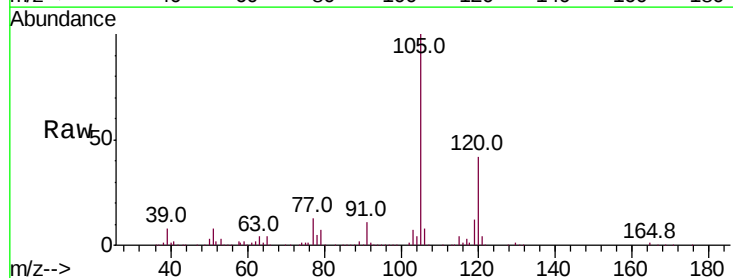
Acq: 31 Jul 2019 11:16

Tgt Ion:105 Resp: 684892

Ion Ratio Lower Upper

105 100

120 42.0 20.9 62.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

800000

600000

400000

200000

0

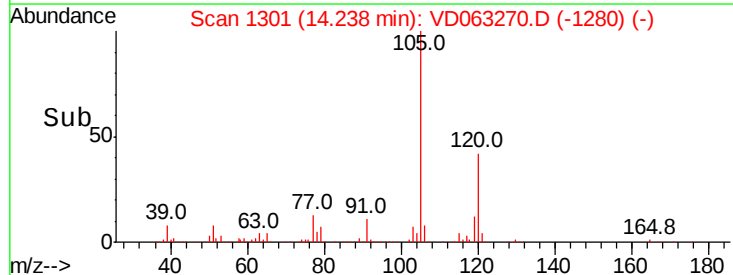
14.24

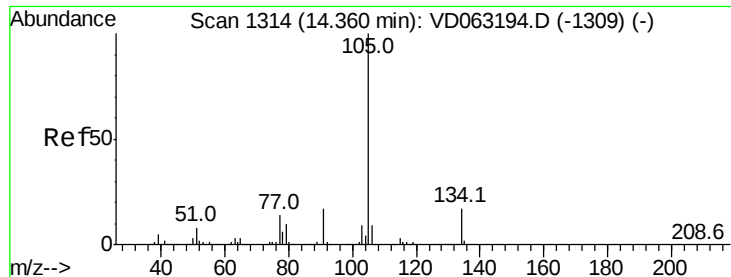
14.10

14.20

14.30

Time-->





#85

sec-Butylbenzene

Concen: 21.008 ug/l

RT: 14.37 min Scan# 1314

Delta R.T. 0.01 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

Instrument :

MSVOA_D

ClientSampleId :

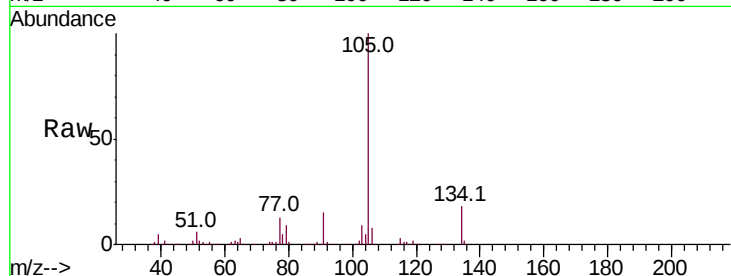
VD0731SBS01

Tot Ion:105 Resp: 949439

Ion Ratio Lower Upper

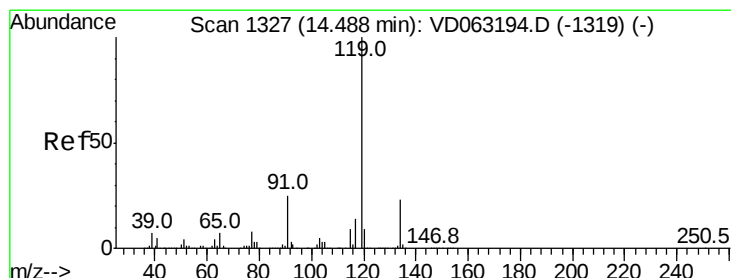
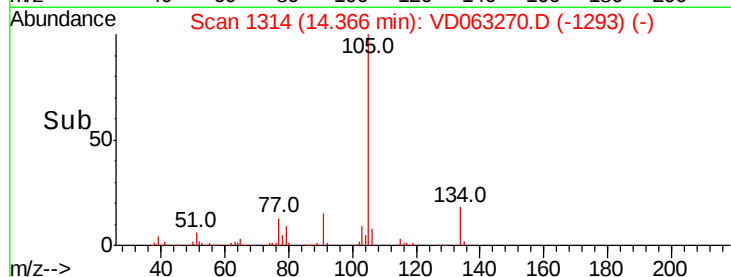
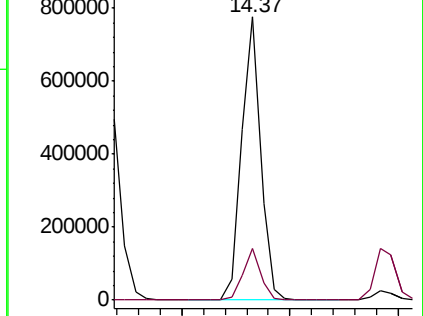
105 100

134 18.1 8.3 24.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#86

p-Isopropyltoluene

Concen: 19.941 ug/l

RT: 14.48 min Scan# 1326

Delta R.T. -0.00 min

Lab File: VD063270.D

Acq: 31 Jul 2019 11:16

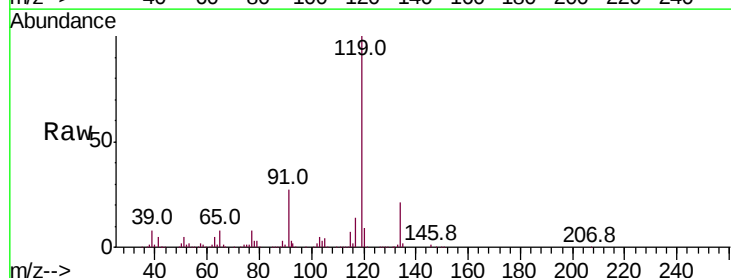
Tgt Ion:119 Resp: 860164

Ion Ratio Lower Upper

119 100

134 21.0 11.5 34.5

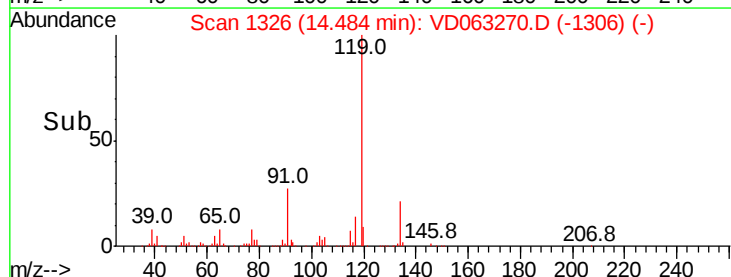
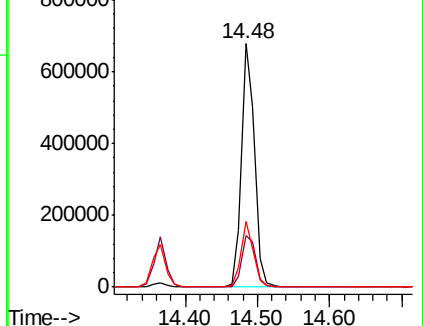
91 27.0 12.6 37.6

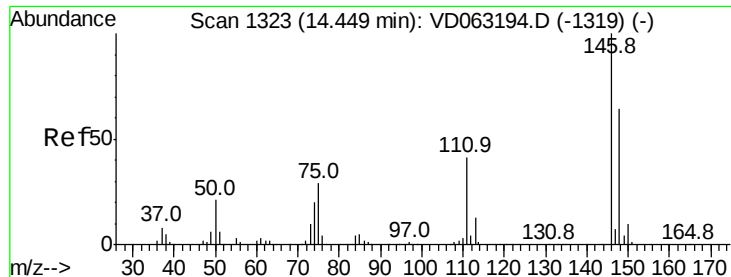


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

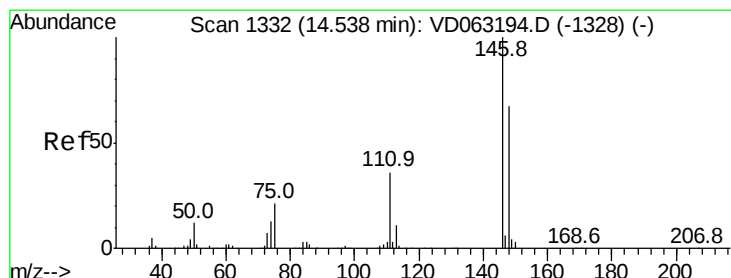
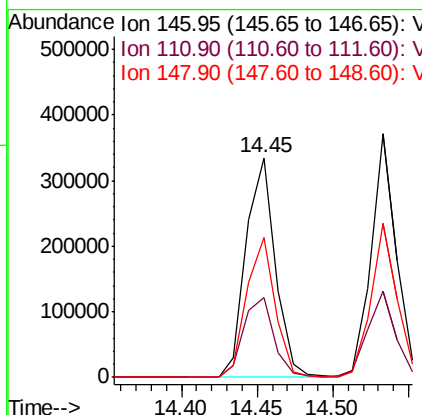
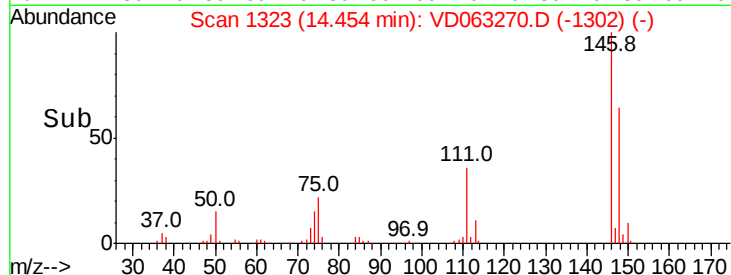
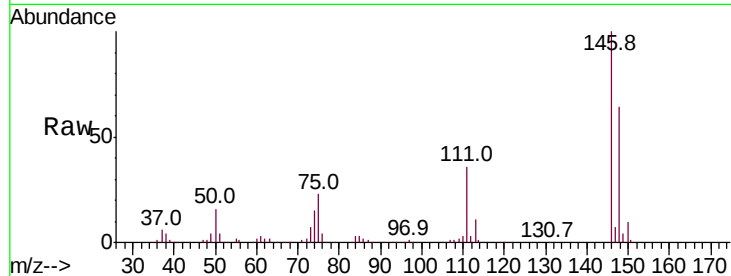




#87
 1,3-Dichlorobenzene
 Concen: 20.603 ug/l
 RT: 14.45 min Scan# 1323
 Delta R.T. 0.01 min
 Lab File: VD063270.D
 Acq: 31 Jul 2019 11:16

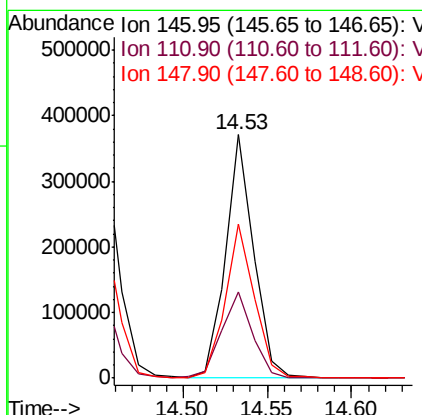
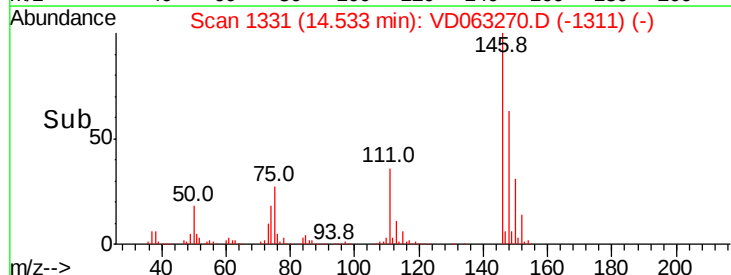
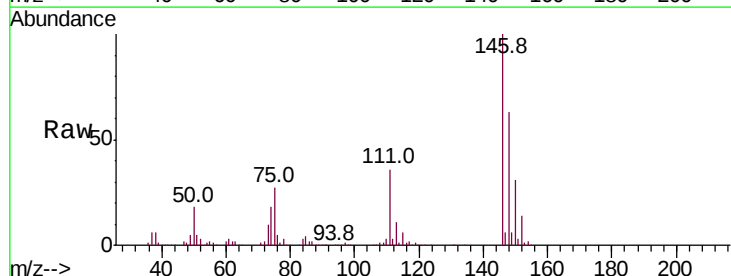
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0731SBS01

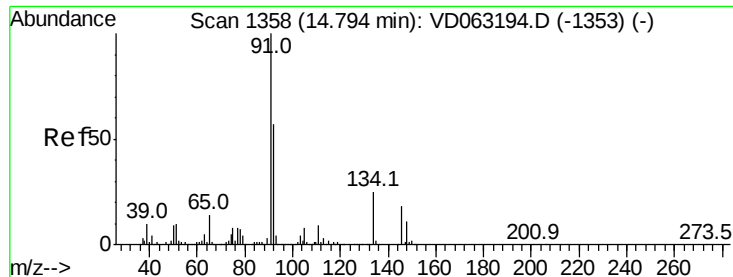
Tot Ion	Ratio	Lower	Upper
146	100		
111	36.4	20.4	61.3
148	64.0	31.8	95.4



#88
 1,4-Dichlorobenzene
 Concen: 19.323 ug/l
 RT: 14.53 min Scan# 1331
 Delta R.T. -0.00 min
 Lab File: VD063270.D
 Acq: 31 Jul 2019 11:16

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.5	18.1	54.3
148	63.0	33.4	100.1

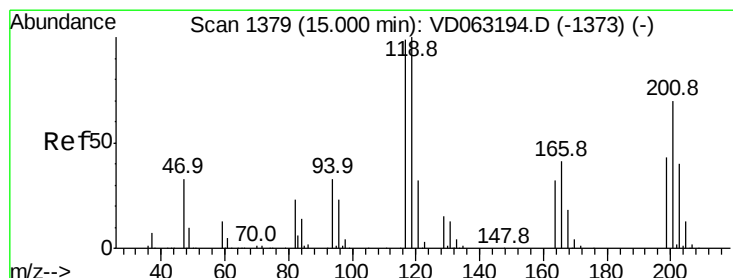
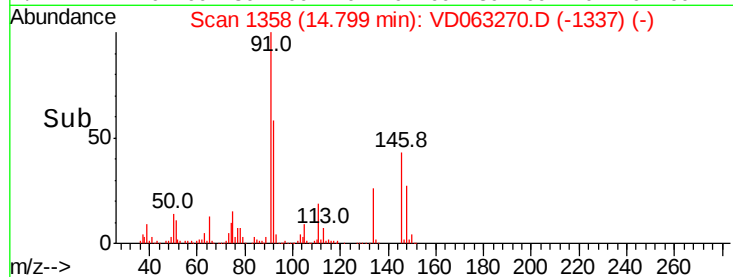
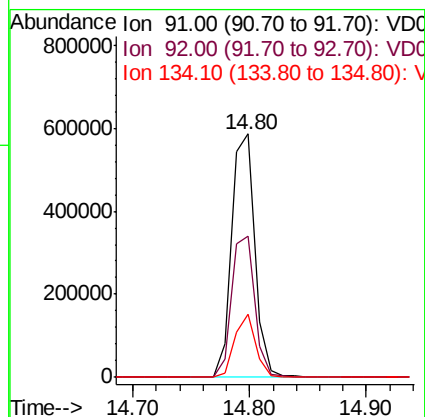
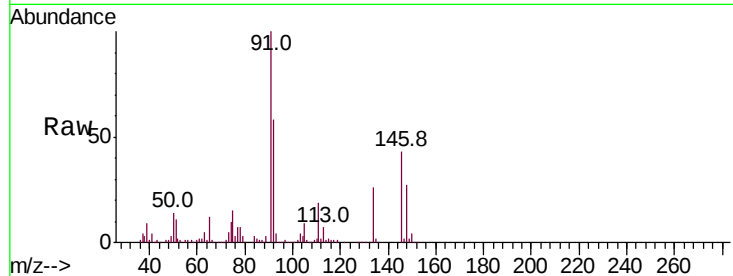




#89
n-Butylbenzene
Concen: 21.794 ug/l
RT: 14.80 min Scan# 1358
Delta R.T. 0.01 min
Lab File: VD063270.D
Acq: 31 Jul 2019 11:16

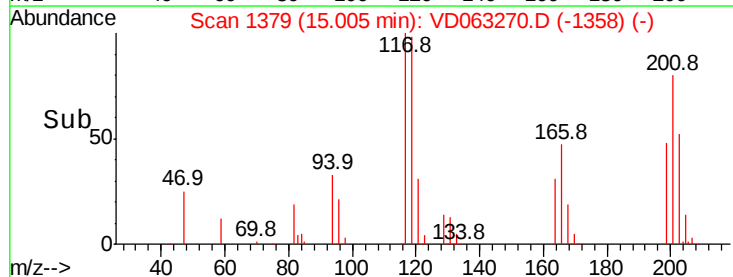
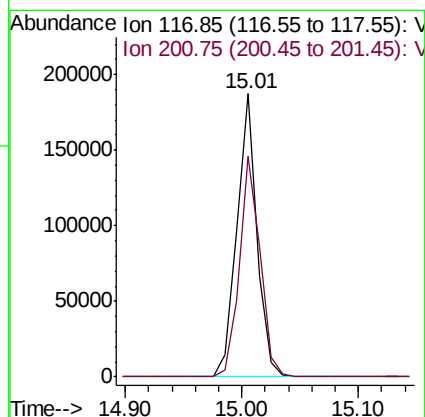
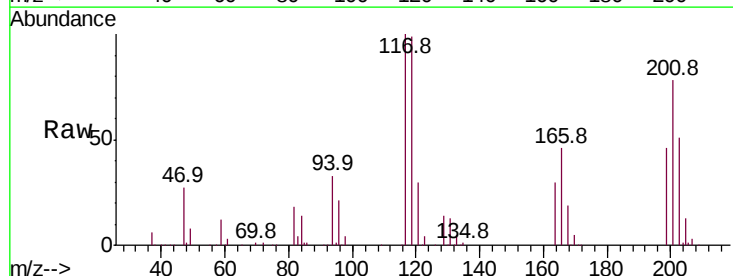
Instrument :
MSVOA_D
ClientSampleId :
VD0731SBS01

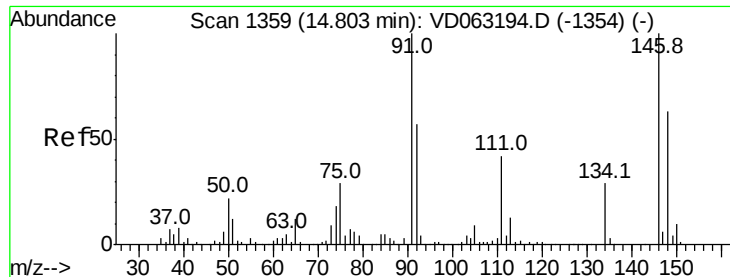
Tot Ion	Ratio	Lower	Upper
91	100		
92	58.1	28.3	85.0
134	26.1	12.3	36.8



#90
Hexachloroethane
Concen: 19.820 ug/l
RT: 15.01 min Scan# 1379
Delta R.T. 0.01 min
Lab File: VD063270.D
Acq: 31 Jul 2019 11:16

Tgt Ion	Ratio	Lower	Upper
117	100		
201	77.9	35.2	105.6

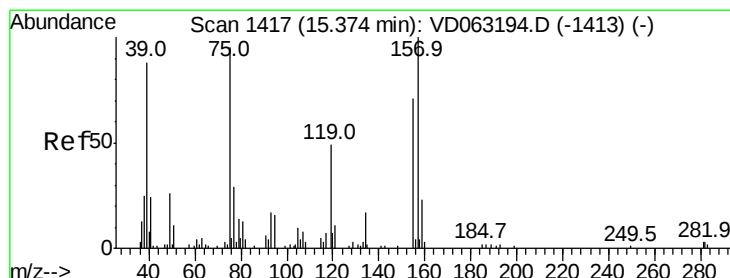
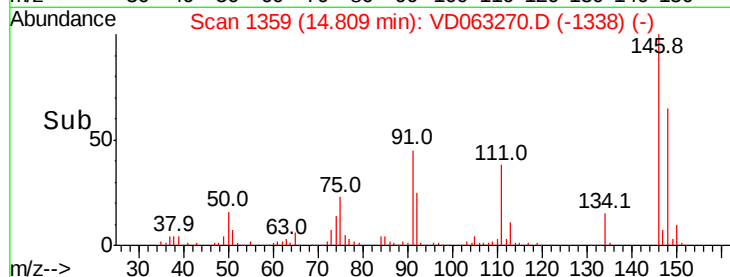
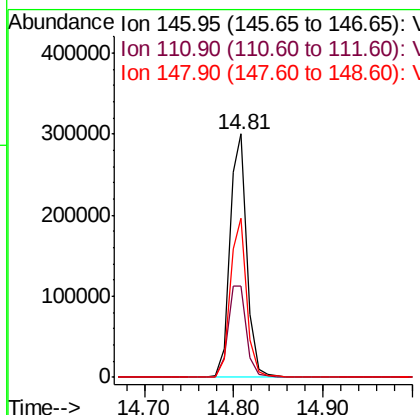
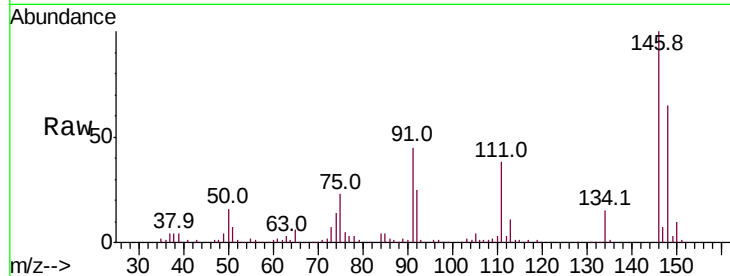




#91
 1,2-Dichlorobenzene
 Concen: 21.240 ug/l
 RT: 14.81 min Scan# 1359
 Delta R.T. 0.01 min
 Lab File: VD063270.D
 Acq: 31 Jul 2019 11:16

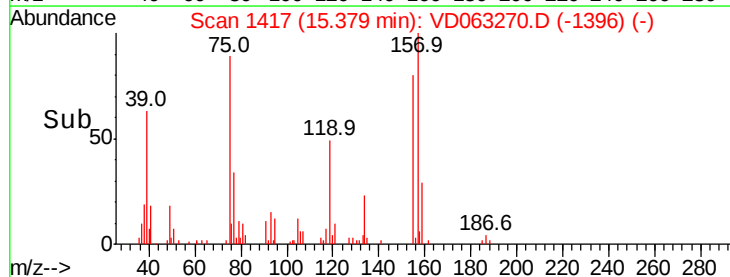
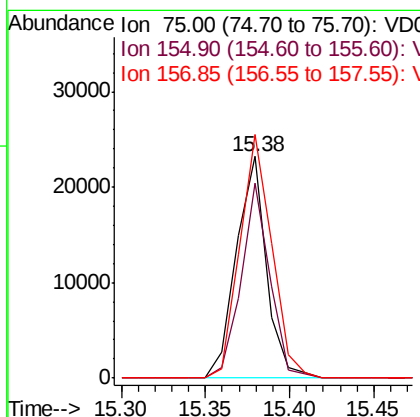
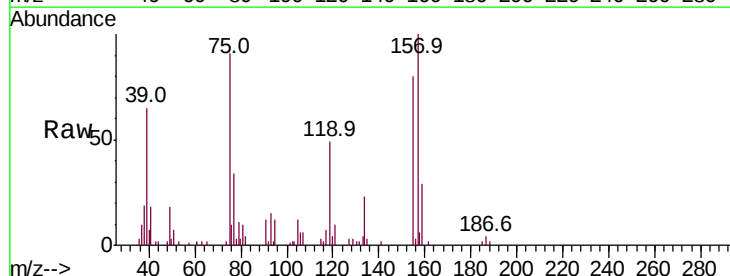
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0731SBS01

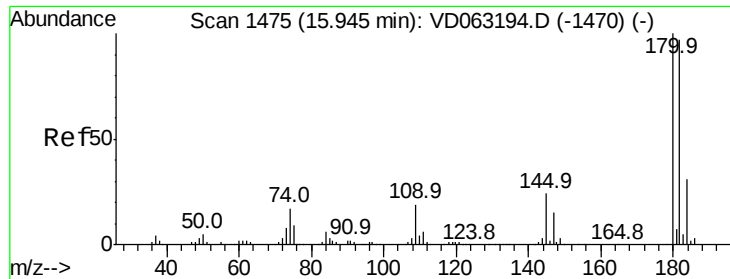
Tot Ion:146 Resp: 406661
 Ion Ratio Lower Upper
 146 100
 111 37.7 21.1 63.3
 148 65.3 31.6 94.8



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.187 ug/l
 RT: 15.38 min Scan# 1417
 Delta R.T. 0.01 min
 Lab File: VD063270.D
 Acq: 31 Jul 2019 11:16

Tgt Ion: 75 Resp: 28917
 Ion Ratio Lower Upper
 75 100
 155 87.9 37.0 111.0
 157 109.9 52.4 157.2

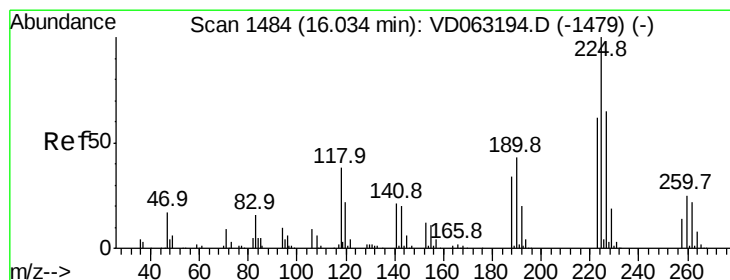
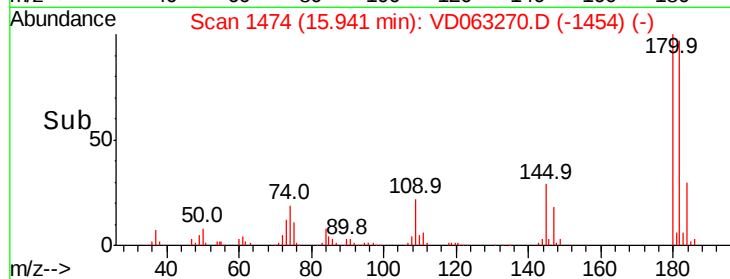
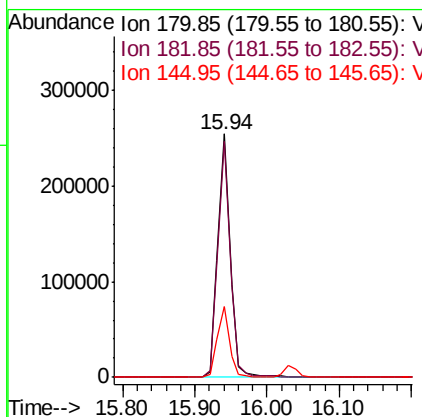
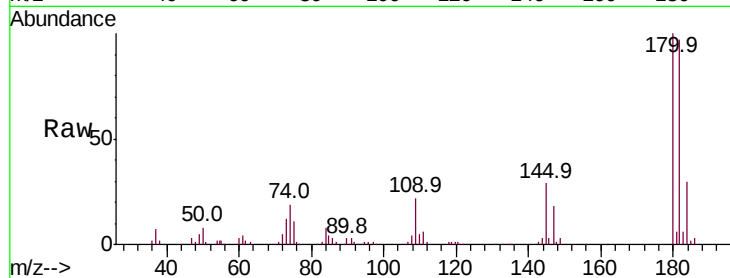




#93
 1,2,4-Trichlorobenzene
 Concen: 19.752 ug/l
 RT: 15.94 min Scan# 1474
 Delta R.T. -0.00 min
 Lab File: VD063270.D
 Acq: 31 Jul 2019 11:16

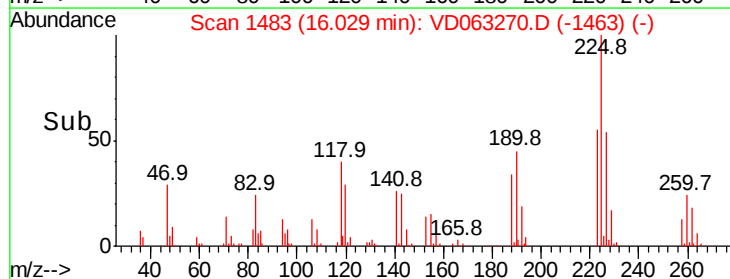
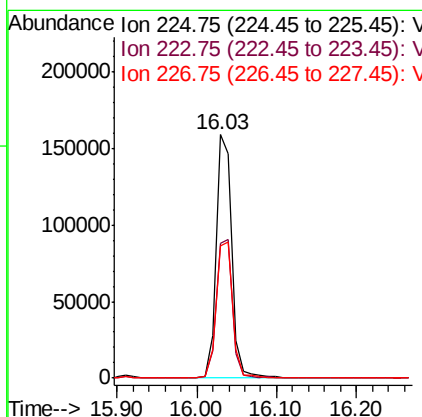
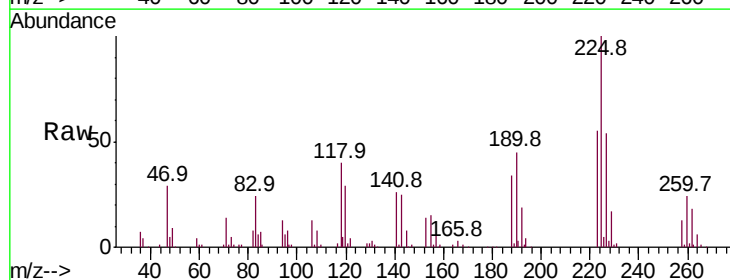
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0731SBS01

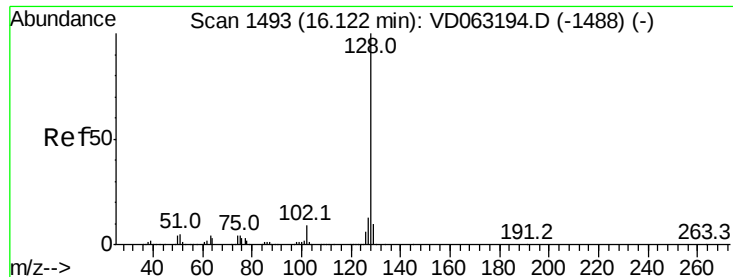
Tot Ion	Ratio	Lower	Upper
180	100		
182	96.7	48.6	145.8
145	28.8	12.2	36.6



#94
 Hexachlorobutadiene
 Concen: 20.085 ug/l
 RT: 16.03 min Scan# 1483
 Delta R.T. -0.00 min
 Lab File: VD063270.D
 Acq: 31 Jul 2019 11:16

Tgt Ion	Ratio	Lower	Upper
225	100		
223	55.4	30.9	92.5
227	54.4	32.6	97.7

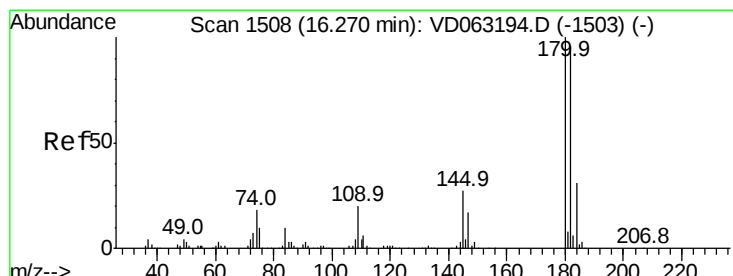
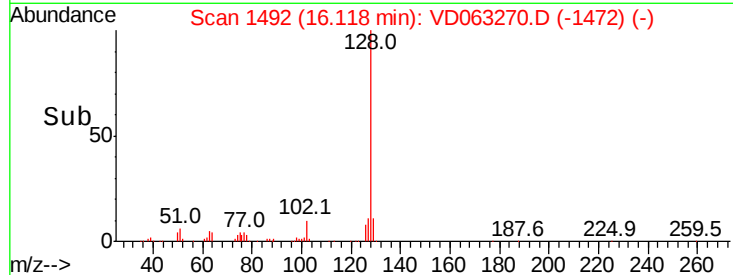
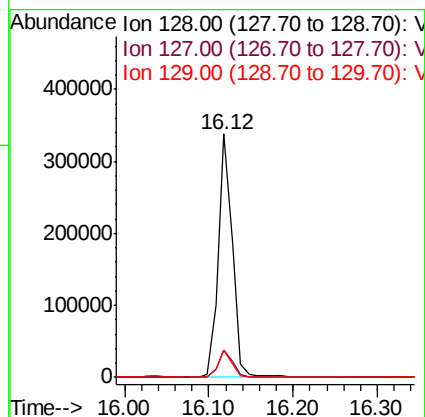
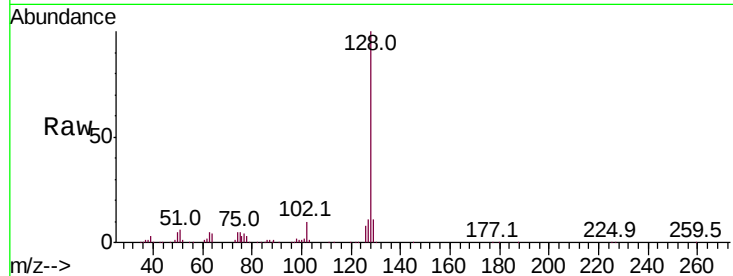




#95
Naphthalene
Concen: 18.292 ug/l
RT: 16.12 min Scan# 1492
Delta R.T. -0.00 min
Lab File: VD063270.D
Acq: 31 Jul 2019 11:16

Instrument :
MSVOA_D
ClientSampleId :
VD0731SBS01

Tot Ion:128 Resp: 392675
Ion Ratio Lower Upper
128 100
127 11.1 10.2 15.4
129 11.2 7.8 11.8



#96
1,2,3-Trichlorobenzene
Concen: 19.481 ug/l
RT: 16.27 min Scan# 1507
Delta R.T. -0.00 min
Lab File: VD063270.D
Acq: 31 Jul 2019 11:16

Tgt Ion:180 Resp: 233752
Ion Ratio Lower Upper
180 100
182 94.2 48.3 144.9
145 26.8 13.6 40.7

