

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD073019\
 Data File : VD063258.D
 Acq On : 31 Jul 2019 1:05
 Operator : VA/AP
 Sample : VD0730SBS02
 Misc : 5.00µl/5ml/MSVOA D/SOIL
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0730SBS02

Quant Time: Jul 31 01:37:09 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	7.03	168	961077	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	1360672	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	1104762	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	621182	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.44	65	574191	53.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.68%	
35) Dibromofluoromethane	6.92	113	640841	55.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.32%	
50) Toluene-d8	10.40	98	1412575	54.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.66%	
62) 4-Bromofluorobenzene	13.55	95	600649	50.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.40%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.57	85	227313	19.349	ug/l	96
3) Chloromethane	1.74	50	193778	21.230	ug/l	93
4) Vinyl Chloride	1.84	62	184892	19.568	ug/l	96
5) Bromomethane	2.14	94	87723	18.408	ug/l	93
6) Chloroethane	2.25	64	83996	19.254	ug/l	92
7) Trichlorofluoromethane	2.52	101	337718	18.423	ug/l	97
8) Diethyl Ether	2.86	74	52954	20.641	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	3.14	101	194866	19.191	ug/l	98
10) Methyl Iodide	3.28	142	298473	20.347	ug/l	96
11) Tert butyl alcohol	4.07	59	52747	112.709	ug/l #	93
12) 1,1-Dichloroethene	3.11	96	151404	20.311	ug/l	86
13) Acrolein	3.02	56	42850	95.138	ug/l	92
14) Allyl chloride	3.60	41	234236	19.725	ug/l	98
15) Acrylonitrile	4.19	53	144915	119.438	ug/l	90
16) Acetone	3.23	43	198802	95.680	ug/l	96
17) Carbon Disulfide	3.35	76	485343	19.452	ug/l	99
18) Methyl Acetate	3.64	43	101627	25.464	ug/l	98
19) Methyl tert-butyl Ether	4.22	73	380255	22.582	ug/l	96
20) Methylene Chloride	3.80	84	181599	21.622	ug/l	97
21) trans-1,2-Dichloroethene	4.20	96	171801	20.540	ug/l	96
22) Diisopropyl ether	5.12	45	508139	21.417	ug/l	97
23) Vinyl Acetate	5.04	43	1551367	106.374	ug/l	99
24) 1,1-Dichloroethane	4.97	63	317595	20.957	ug/l	95
25) 2-Butanone	6.07	43	233650	112.050	ug/l	92
26) 2,2-Dichloropropane	6.01	77	276857	17.727	ug/l	99
27) cis-1,2-Dichloroethene	6.02	96	191150	21.316	ug/l	95
28) Bromochloromethane	6.43	49	132983	22.024	ug/l #	98
29) Tetrahydrofuran	6.45	42	113708	115.177	ug/l	98
30) Chloroform	6.65	83	409519	21.775	ug/l	91
31) Cyclohexane	6.94	56	178434	18.784	ug/l	99
32) 1,1,1-Trichloroethane	6.87	97	374986	20.613	ug/l	94
36) 1,1-Dichloropropene	7.13	75	236370	19.035	ug/l	99
37) Ethyl Acetate	6.17	43	130075	23.316	ug/l #	93
38) Carbon Tetrachloride	7.09	117	340895	18.235	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.85	83	191978	18.556	ug/l	94
40) Benzene	7.44	78	532412	20.457	ug/l	95
41) Methacrylonitrile	6.45	41	141250	21.166	ug/l #	99
42) 1,2-Dichloroethane	7.57	62	303489	22.003	ug/l	96
43) Isopropyl Acetate	9.23	43	149941	21.040	ug/l #	99
44) Trichloroethene	8.53	130	190002	18.017	ug/l	90
45) 1,2-Dichloropropane	8.92	63	137922	20.850	ug/l	91
46) Dibromomethane	9.05	93	117491	21.361	ug/l	90
47) Bromodichloromethane	9.37	83	296394	21.140	ug/l	95
48) Methyl methacrylate	9.11	41	98356	21.280	ug/l	98
49) 1,4-Dioxane	9.07	88	20122	511.927	ug/l #	77
51) 4-Methyl-2-Pentanone	10.29	43	538280	111.065	ug/l	95
52) Toluene	10.50	92	354399	20.474	ug/l	99
53) t-1,3-Dichloropropene	10.90	75	245399	20.301	ug/l	99
54) cis-1,3-Dichloropropene	10.03	75	256475	20.189	ug/l	95
55) 1,1,2-Trichloroethane	11.18	97	125815	21.521	ug/l	96
56) Ethyl methacrylate	11.03	69	140494	21.947	ug/l	91
57) 1,3-Dichloropropane	11.40	76	213026	23.128	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.85	63	381253	114.456	ug/l	99
59) 2-Hexanone	11.52	43	389578	111.543	ug/l	98
60) Dibromochloromethane	11.68	129	232870	21.100	ug/l	94
61) 1,2-Dibromoethane	11.80	107	162811	22.570	ug/l	90
64) Tetrachloroethene	11.25	164	190799	21.679	ug/l	91
65) Chlorobenzene	12.39	112	454210	21.375	ug/l	98
66) 1,1,1,2-Tetrachloroethane	12.51	131	212405	22.692	ug/l	97
67) Ethyl Benzene	12.52	91	765052	21.194	ug/l	95
68) m/p-Xylenes	12.66	106	550811	41.607	ug/l	94
69) o-Xylene	13.04	106	272943	22.452	ug/l	98
70) Styrene	13.07	104	473286	21.953	ug/l	97
71) Bromoform	13.23	173	148941	21.881	ug/l	92
73) Isopropylbenzene	13.39	105	768459	19.711	ug/l	98
74) N-amyl acetate	13.26	43	223046	21.641	ug/l	97
75) 1,1,2,2-Tetrachloroethane	13.69	83	151069	22.811	ug/l	94
76) 1,2,3-Trichloropropane	13.73	75	158350	21.223	ug/l	99
77) Bromobenzene	13.66	156	236763	21.318	ug/l	94
78) n-propylbenzene	13.77	91	867681	18.702	ug/l	97
79) 2-Chlorotoluene	13.84	91	532084	19.792	ug/l	100
80) 1,3,5-Trimethylbenzene	13.93	105	744866	22.151	ug/l	96
81) trans-1,4-Dichloro-2-buten	13.46	75	36445	17.591	ug/l	87
82) 4-Chlorotoluene	13.94	91	711149	22.478	ug/l	87
83) tert-Butylbenzene	14.18	119	766670	19.968	ug/l	98
84) 1,2,4-Trimethylbenzene	14.23	105	686632	19.742	ug/l	99
85) sec-Butylbenzene	14.36	105	812428	20.084	ug/l	97
86) p-Isopropyltoluene	14.49	119	744160	19.274	ug/l	98
87) 1,3-Dichlorobenzene	14.45	146	388727	19.764	ug/l	97
88) 1,4-Dichlorobenzene	14.54	146	390176	19.618	ug/l	96
89) n-Butylbenzene	14.79	91	653027	19.583	ug/l	99
90) Hexachloroethane	15.00	117	197749	19.659	ug/l	91
91) 1,2-Dichlorobenzene	14.80	146	355889	20.768	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	15.37	75	27919	20.696	ug/l	96

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QLast Update : Tue Jul 30 03:04:50 2019
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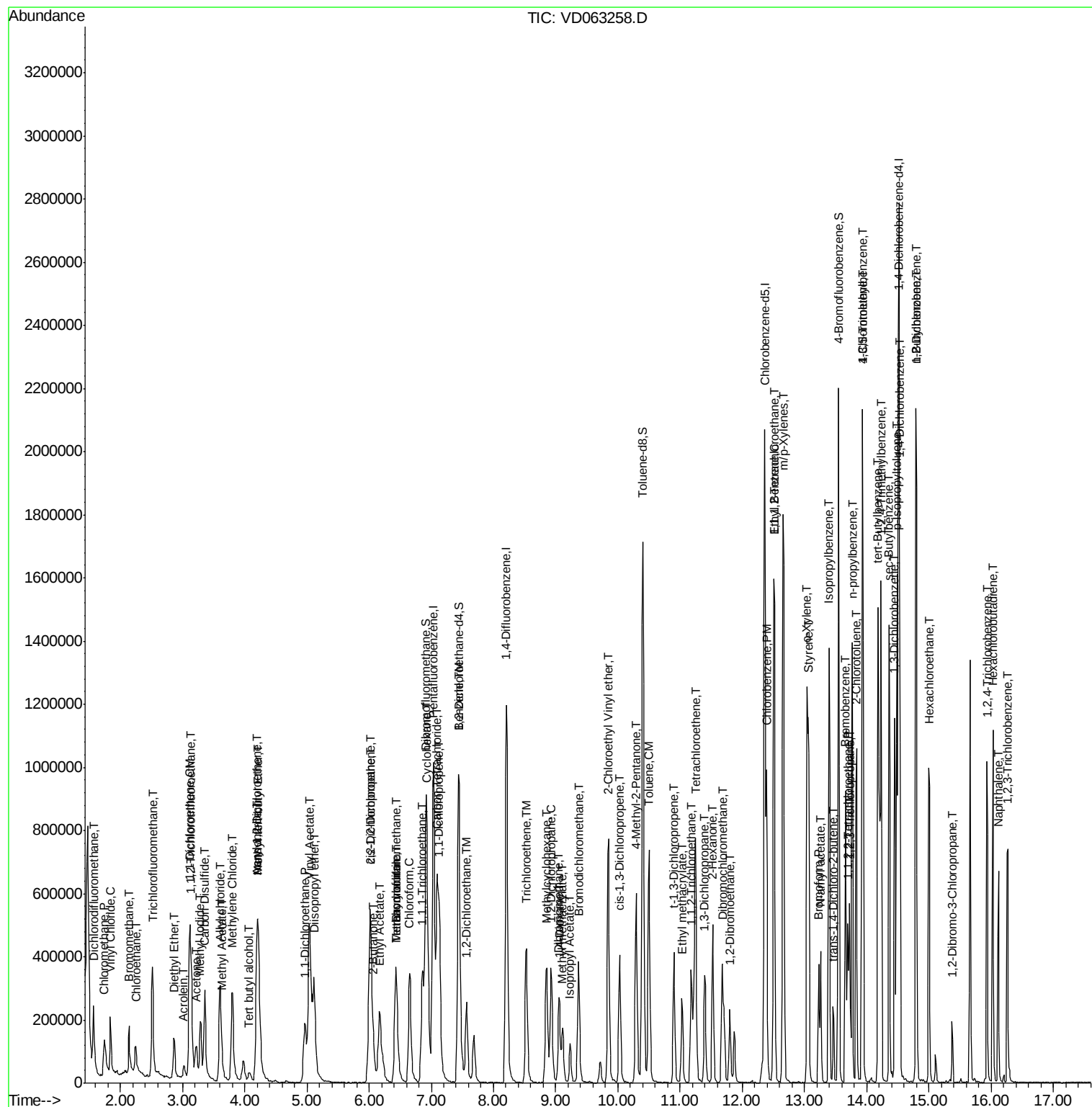
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	257014	18.906	ug/l	97
94) Hexachlorobutadiene	16.03	225	181918	18.466	ug/l	94
95) Naphthalene	16.12	128	407582	21.212	ug/l	99
96) 1,2,3-Trichlorobenzene	16.27	180	213471	19.877	ug/l	91

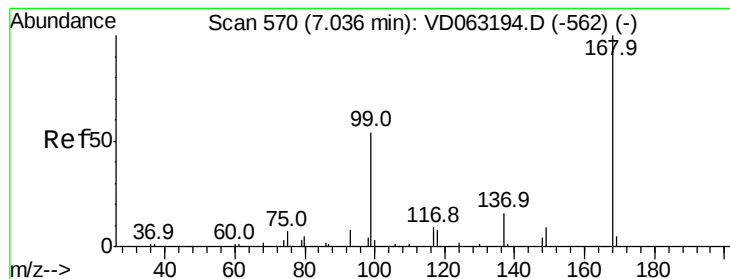
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 570

Delta R.T. -0.00 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

Instrument :

MSVOA_D

ClientSampleId :

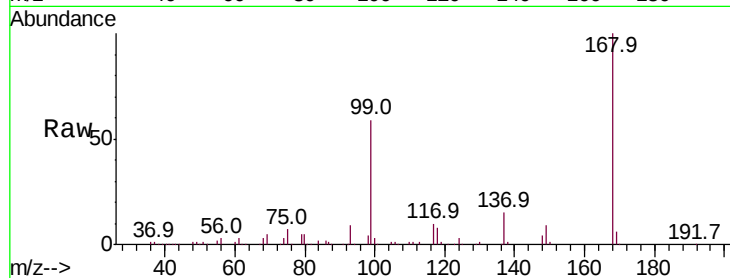
VD0730SBSD02

Tot Ion:168 Resp: 961077

Ion Ratio Lower Upper

168 100

99 58.8 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.03

400000

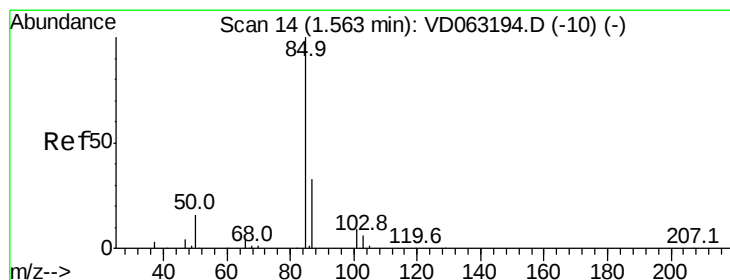
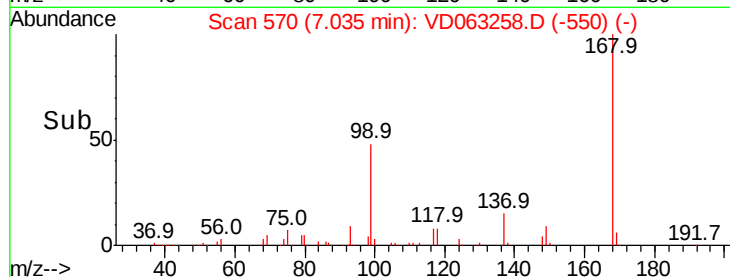
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 19.349 ug/l

RT: 1.57 min Scan# 15

Delta R.T. 0.01 min

Lab File: VD063258.D

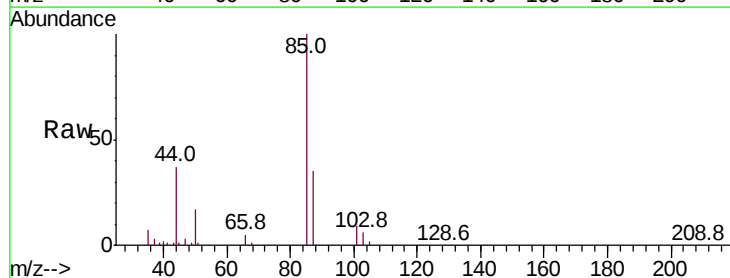
Acq: 31 Jul 2019 1:05

Tgt Ion: 85 Resp: 227313

Ion Ratio Lower Upper

85 100

87 35.4 16.6 49.7



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.57

120000

100000

80000

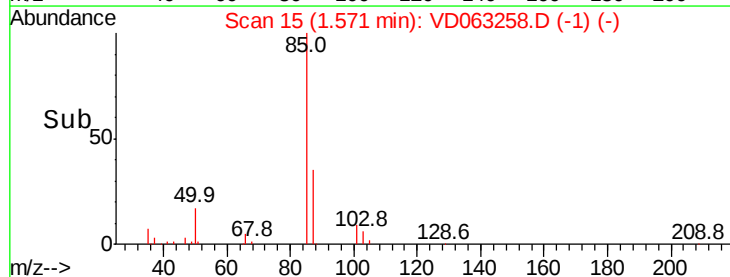
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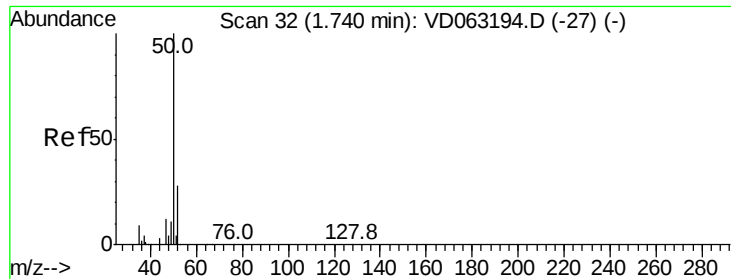
40000

20000

0

Time-->





#3

Chloromethane

Concen: 21.230 ug/l

RT: 1.74 min Scan# 32

Delta R.T. -0.00 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

Instrument :

MSVOA_D

ClientSampleId :

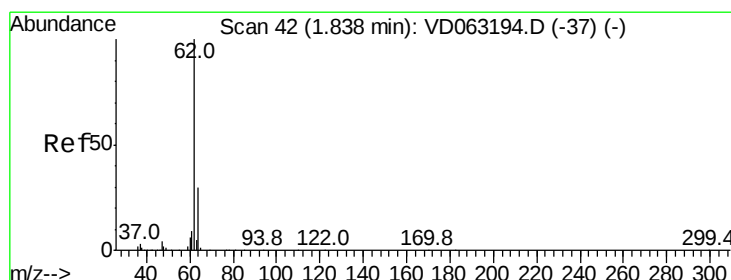
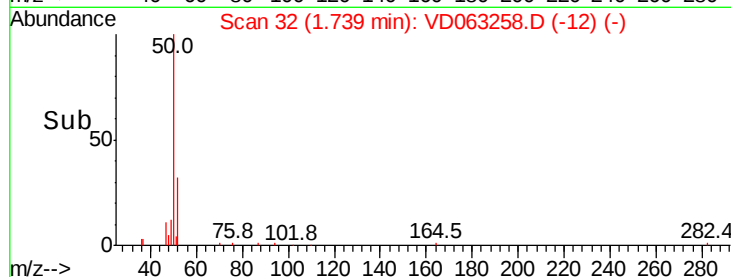
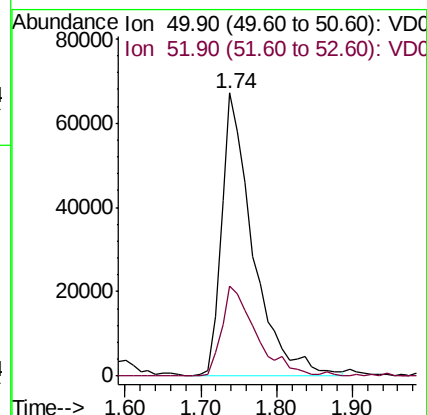
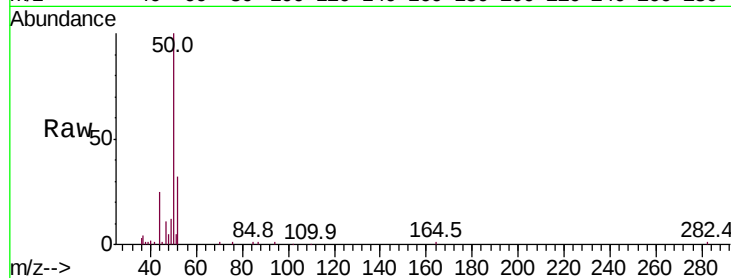
VD0730SBS02

Tot Ion: 50 Resp: 193778

Ion Ratio Lower Upper

50 100

52 31.9 22.6 34.0



#4

Vinyl Chloride

Concen: 19.568 ug/l

RT: 1.84 min Scan# 42

Delta R.T. -0.00 min

Lab File: VD063258.D

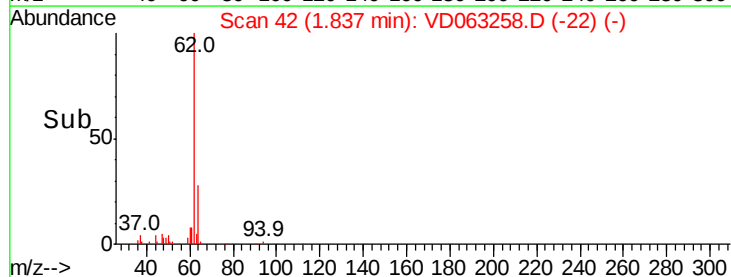
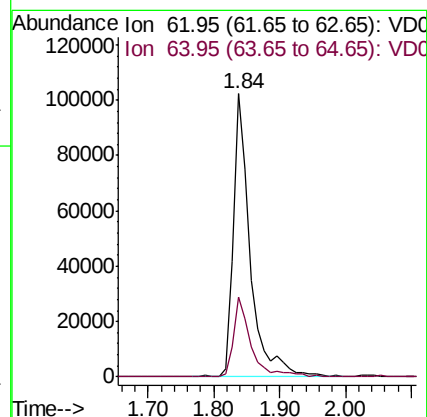
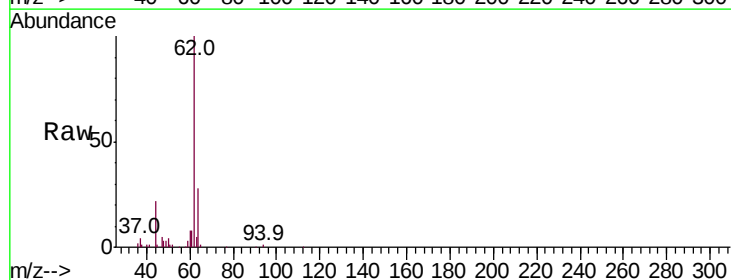
Acq: 31 Jul 2019 1:05

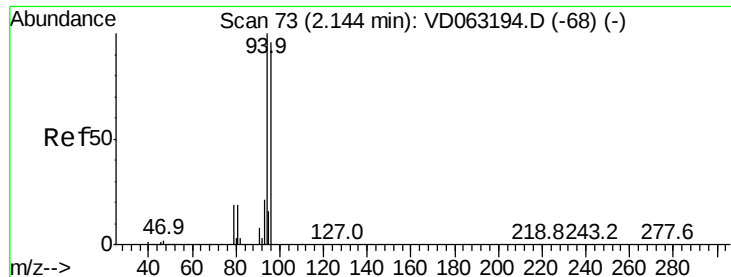
Tgt Ion: 62 Resp: 184892

Ion Ratio Lower Upper

62 100

64 28.0 24.1 36.1





#5

Bromomethane

Concen: 18.408 ug/l

RT: 2.14 min Scan# 73

Delta R.T. -0.00 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

Instrument :

MSVOA_D

ClientSampleId :

VD0730SBS02

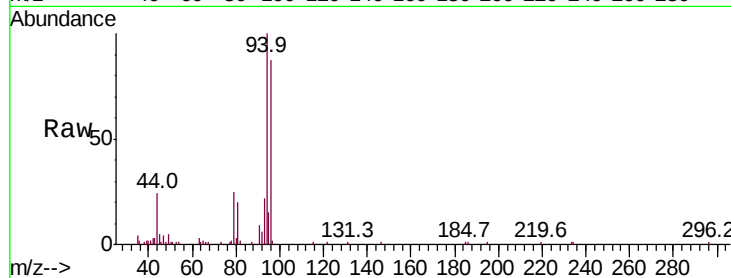
Tot Ion: 94 Resp: 87723

Ion Ratio Lower Upper

94 100

96 87.3 76.4 114.6

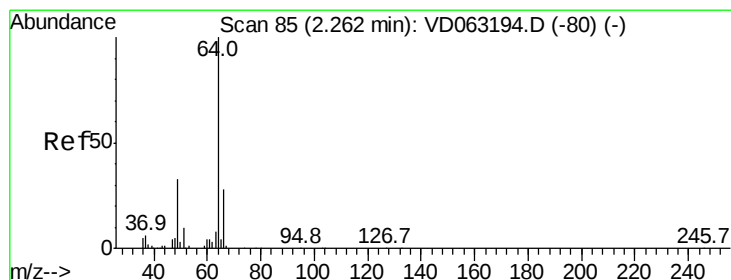
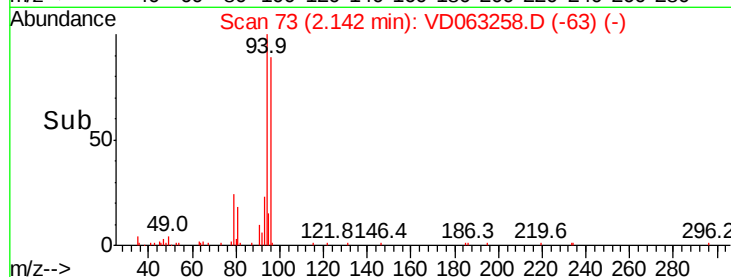
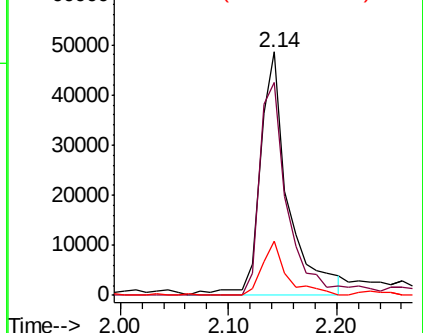
93 22.1 17.3 25.9



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: 19.254 ug/l

RT: 2.25 min Scan# 84

Delta R.T. -0.01 min

Lab File: VD063258.D

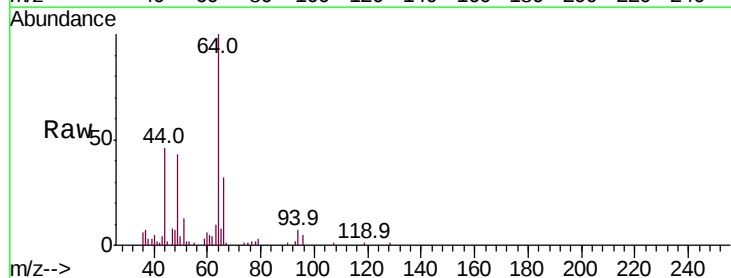
Acq: 31 Jul 2019 1:05

Tgt Ion: 64 Resp: 83996

Ion Ratio Lower Upper

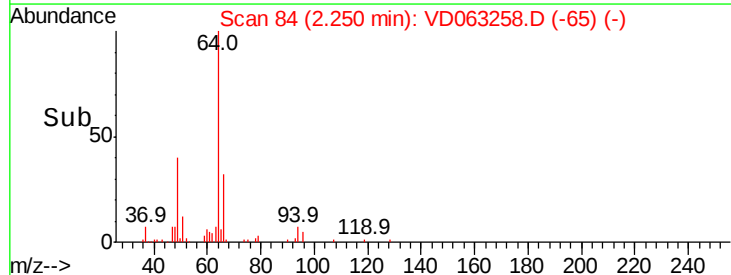
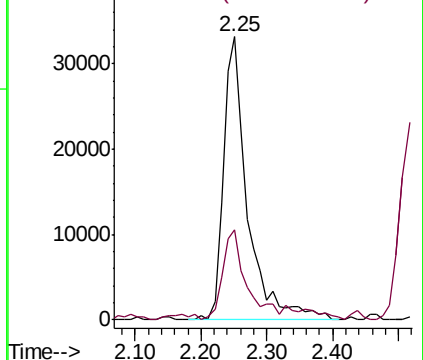
64 100

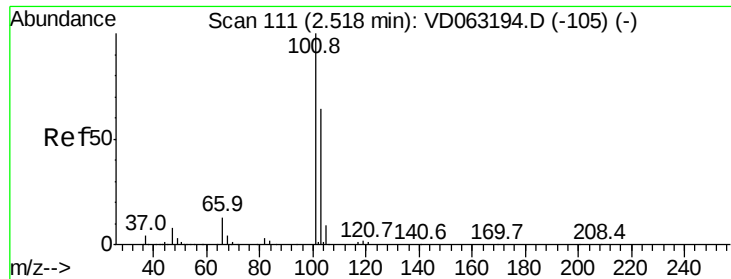
66 31.9 22.2 33.2



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



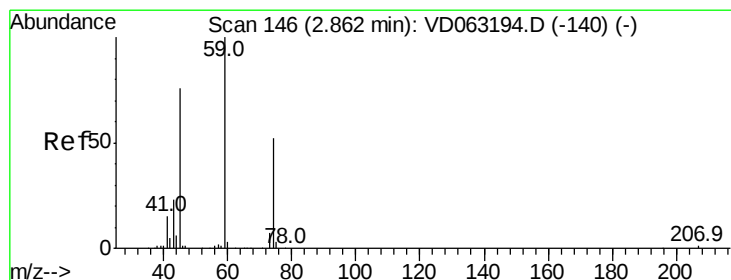
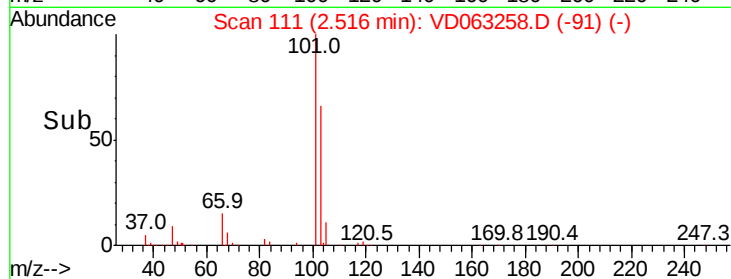
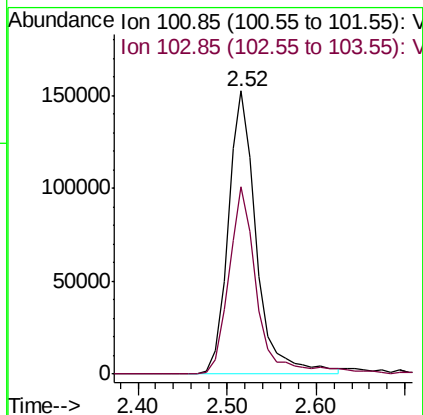
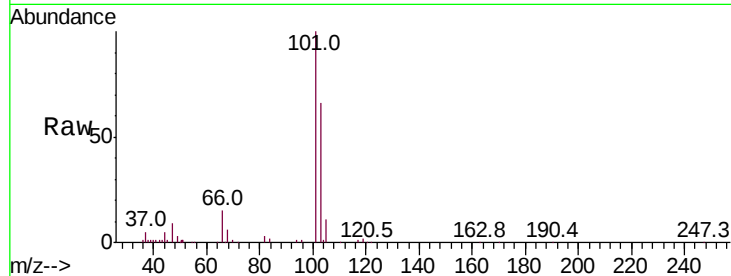


#7

Trichlorofluoromethane
 Concen: 18.423 ug/l
 RT: 2.52 min Scan# 111
 Delta R.T. -0.00 min
 Lab File: VD063258.D
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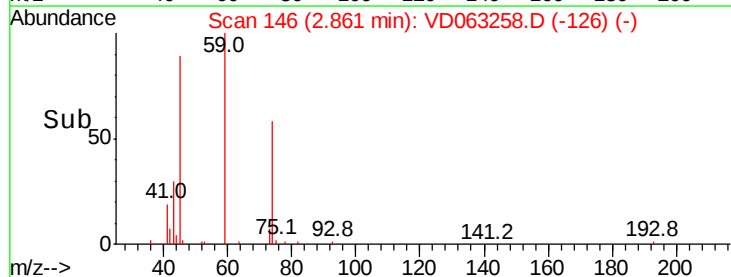
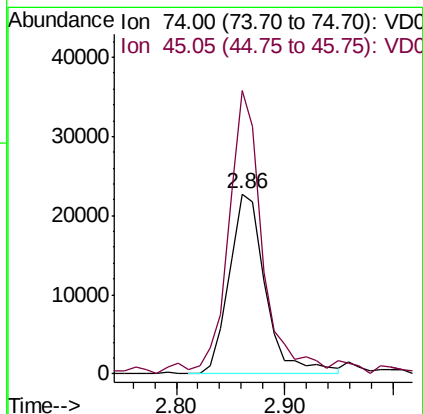
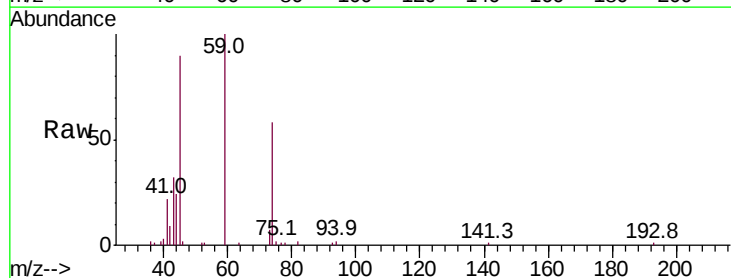
Tot Ion:101 Resp: 337718
 Ion Ratio Lower Upper
 101 100
 103 66.4 51.5 77.3

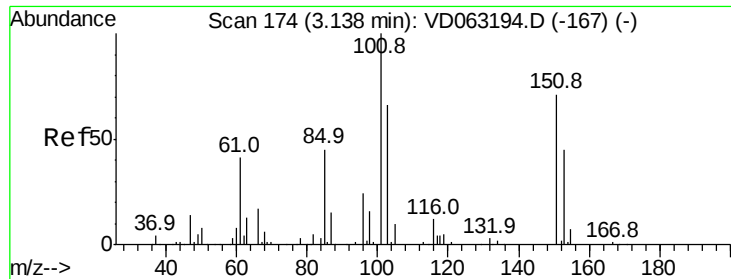


#8

Diethyl Ether
 Concen: 20.641 ug/l
 RT: 2.86 min Scan# 146
 Delta R.T. -0.00 min
 Lab File: VD063258.D
 Acq: 31 Jul 2019 1:05

Tgt Ion: 74 Resp: 52954
 Ion Ratio Lower Upper
 74 100
 45 157.0 73.6 220.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.191 ug/l

RT: 3.14 min Scan# 174

Delta R.T. -0.00 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

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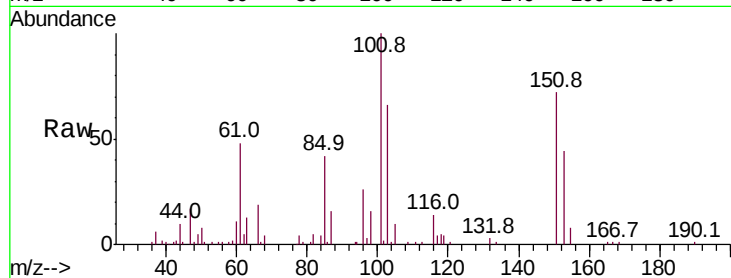
Tot Ion:101 Resp: 194866

Ion Ratio Lower Upper

101 100

85 41.6 36.1 54.1

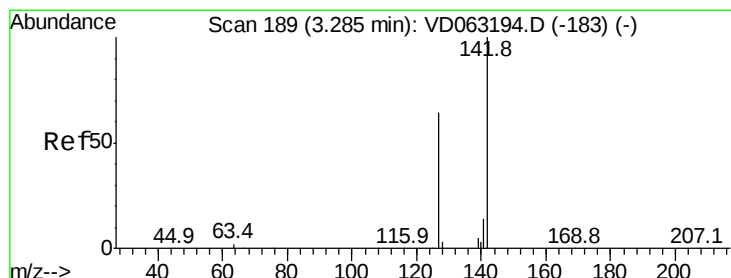
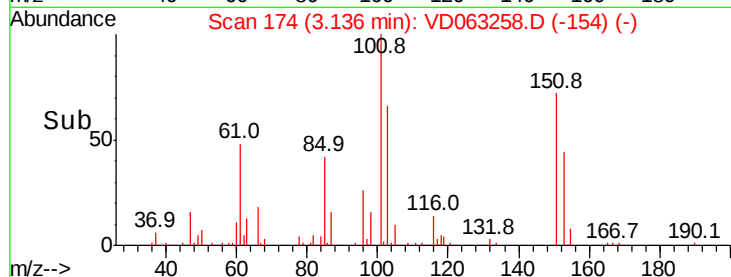
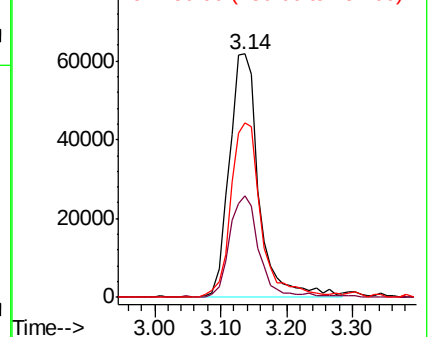
151 71.7 57.1 85.7



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: 20.347 ug/l

RT: 3.28 min Scan# 189

Delta R.T. -0.00 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

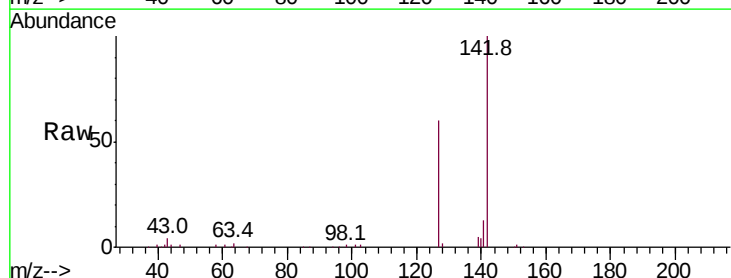
Tgt Ion:142 Resp: 298473

Ion Ratio Lower Upper

142 100

127 60.2 50.8 76.2

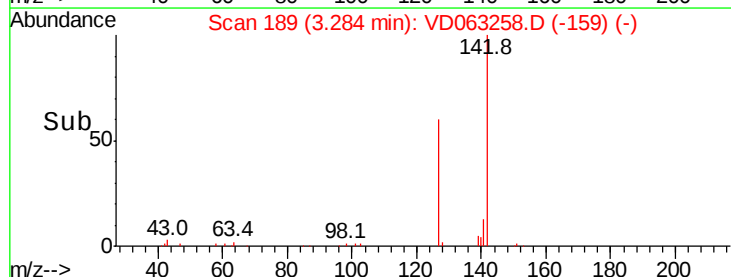
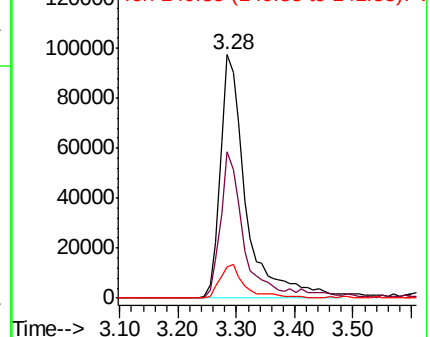
141 12.8 11.4 17.2

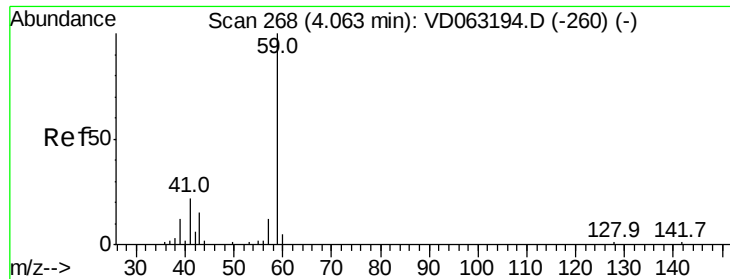


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



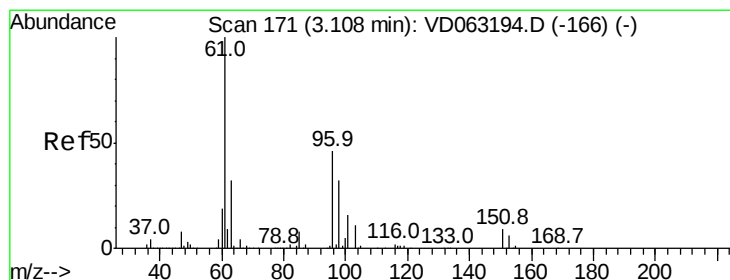
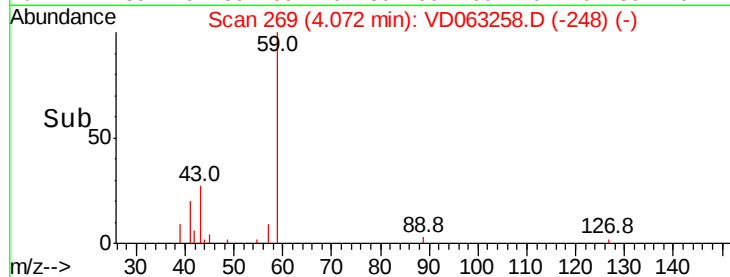
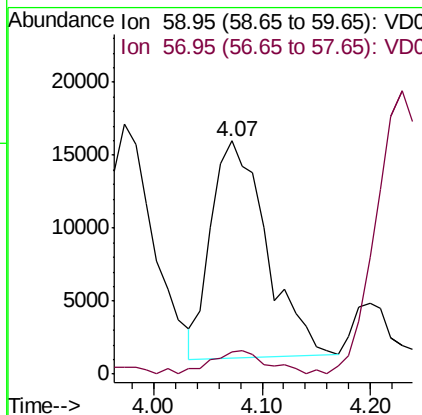
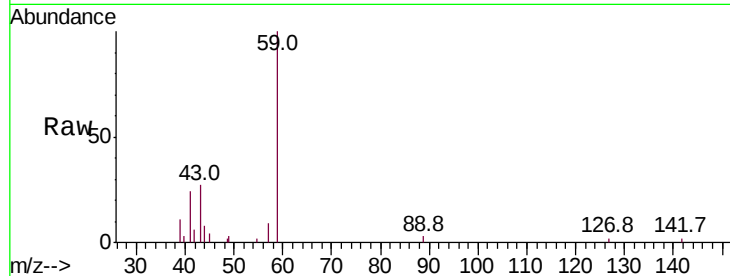


#11

Tert butyl alcohol
Concen: 112.709 ug/l
RT: 4.07 min Scan# 269
Delta R.T. 0.01 min
Lab File: VD063258.D
Acq: 31 Jul 2019 1:05

Instrument :
MSVOA_D
ClientSampleId :
VD0730SBSD02

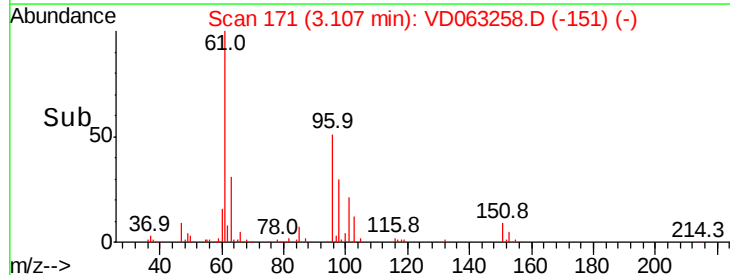
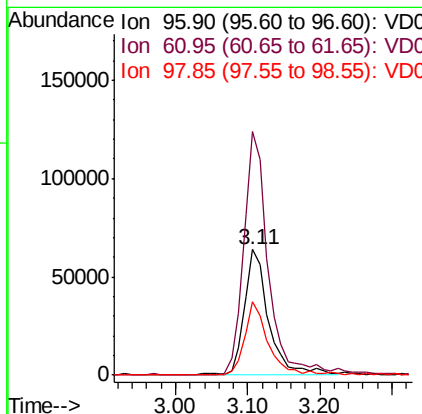
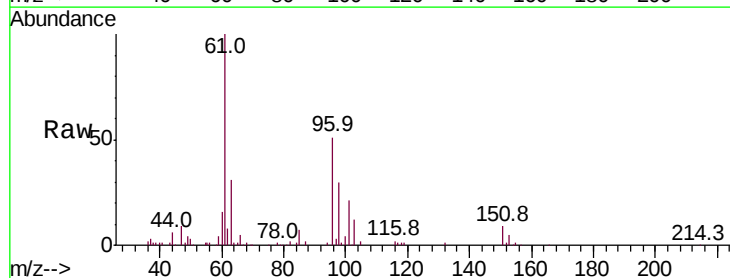
Tot Ion: 59 Resp: 52747
Ion Ratio Lower Upper
59 100
57 9.4 9.6 14.4#

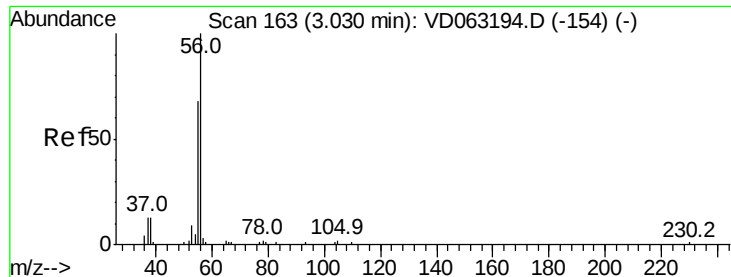


#12

1,1-Dichloroethene
Concen: 20.311 ug/l
RT: 3.11 min Scan# 171
Delta R.T. -0.00 min
Lab File: VD063258.D
Acq: 31 Jul 2019 1:05

Tgt Ion: 96 Resp: 151404
Ion Ratio Lower Upper
96 100
61 194.2 173.7 260.5
98 58.3 55.8 83.8

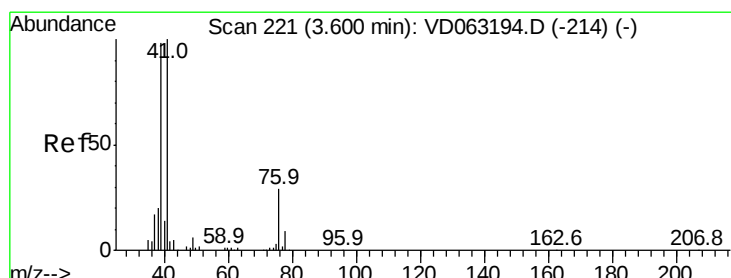
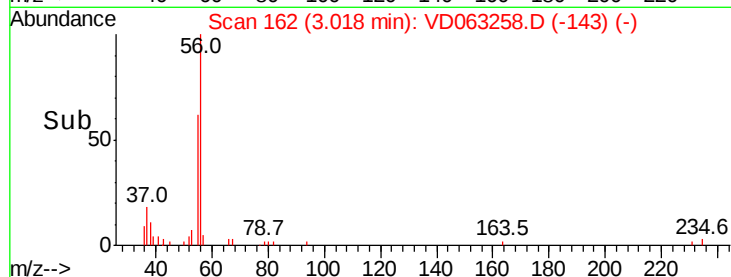
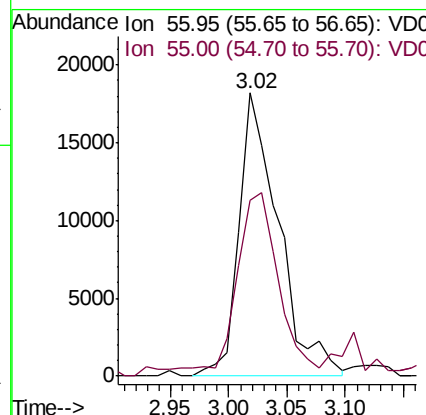
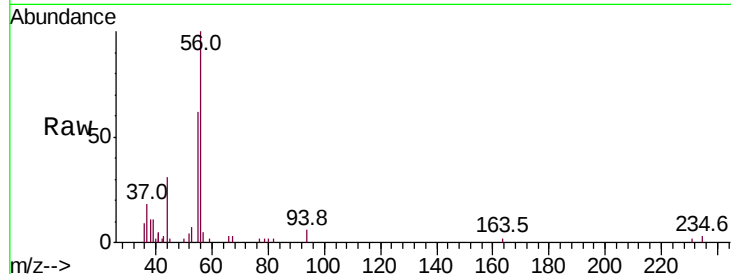




#13
Acrolein
Concen: 95.138 ug/l
RT: 3.02 min Scan# 162
Delta R.T. -0.01 min
Lab File: VD063258.D
Acq: 31 Jul 2019 1:05

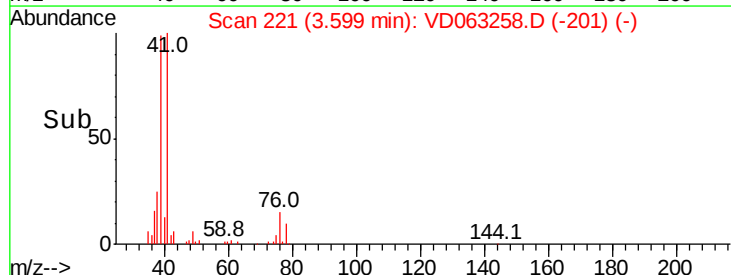
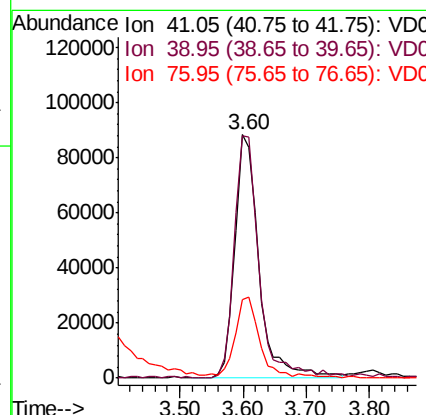
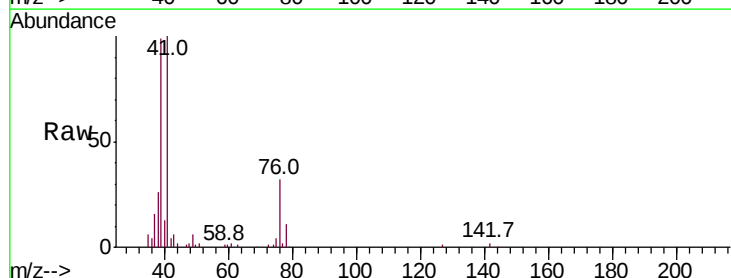
Instrument :
MSVOA_D
ClientSampleId :
VD0730SBS02

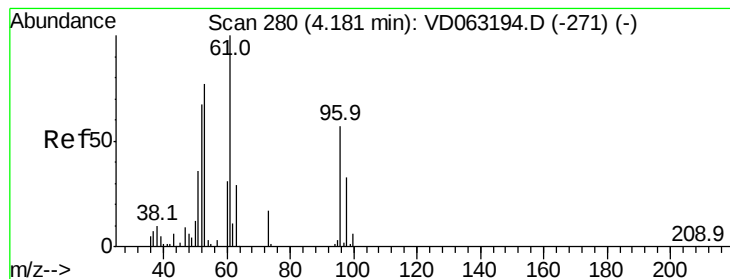
Tot Ion: 56 Resp: 42850
Ion Ratio Lower Upper
56 100
55 62.3 55.3 82.9



#14
Allyl chloride
Concen: 19.725 ug/l
RT: 3.60 min Scan# 221
Delta R.T. -0.00 min
Lab File: VD063258.D
Acq: 31 Jul 2019 1:05

Tgt Ion: 41 Resp: 234236
Ion Ratio Lower Upper
41 100
39 99.4 78.6 117.8
76 32.1 24.5 36.7





#15

Acrylonitrile

Concen: 119.438 ug/l

RT: 4.19 min Scan# 281

Delta R.T. 0.01 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

Instrument :

MSVOA_D

ClientSampleId :

VD0730SBS02

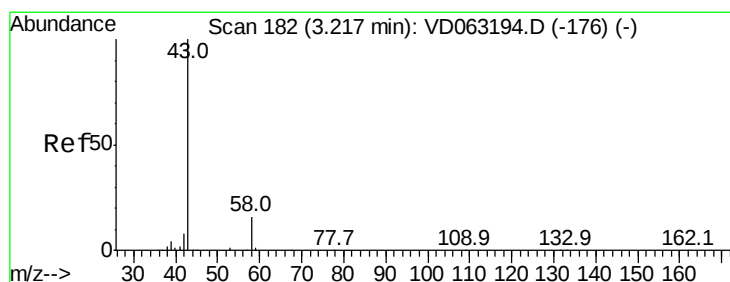
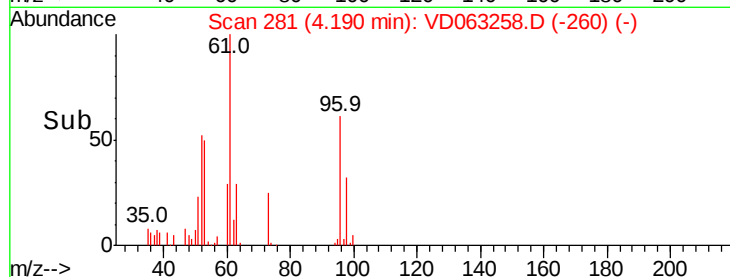
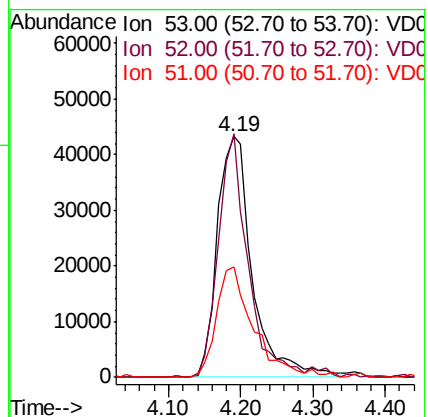
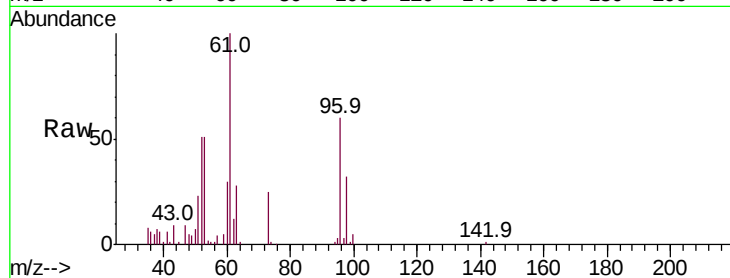
Tot Ion: 53 Resp: 144915

Ion Ratio Lower Upper

53 100

52 101.2 69.7 104.5

51 45.9 37.4 56.0



#16

Acetone

Concen: 95.680 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD063258.D

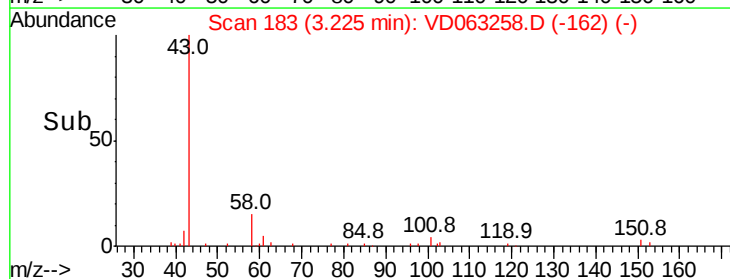
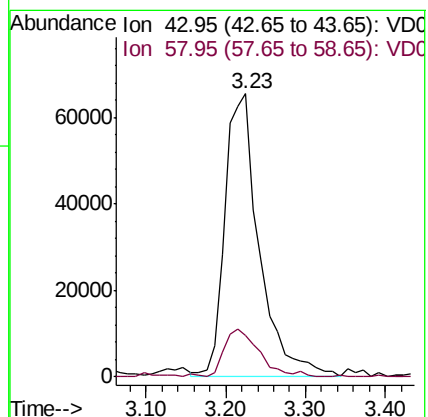
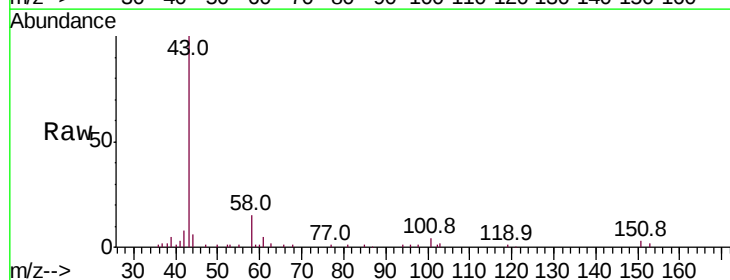
Acq: 31 Jul 2019 1:05

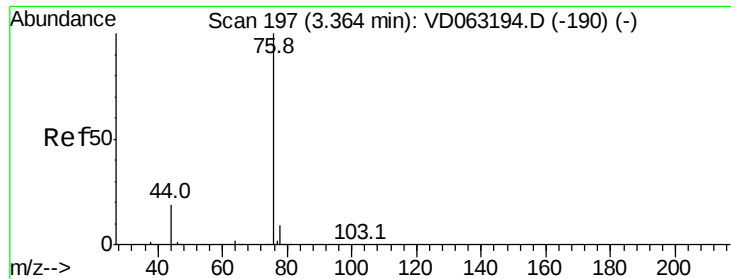
Tgt Ion: 43 Resp: 198802

Ion Ratio Lower Upper

43 100

58 14.6 13.0 19.4

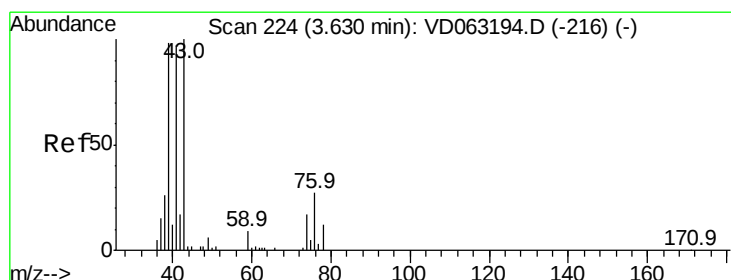
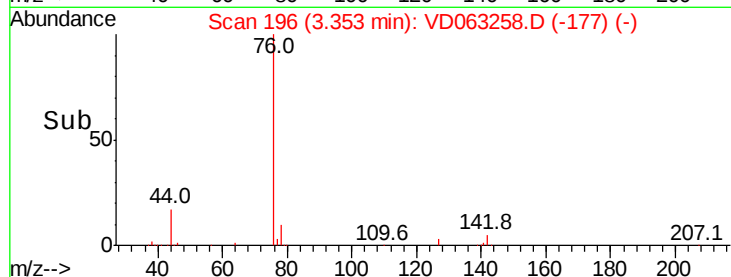
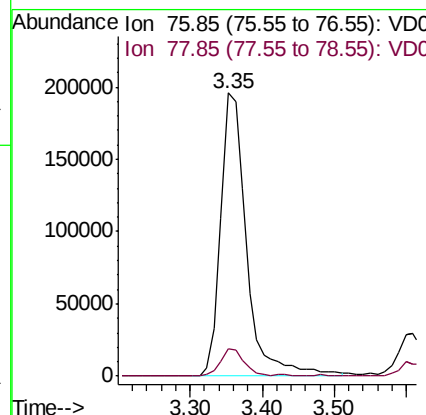
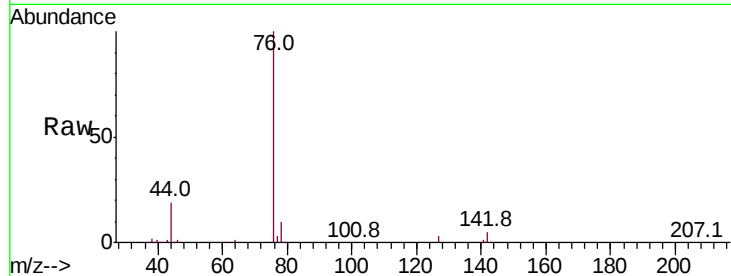




#17
Carbon Disulfide
Concen: 19.452 ug/l
RT: 3.35 min Scan# 196
Delta R.T. -0.01 min
Lab File: VD063258.D
Acq: 31 Jul 2019 1:05

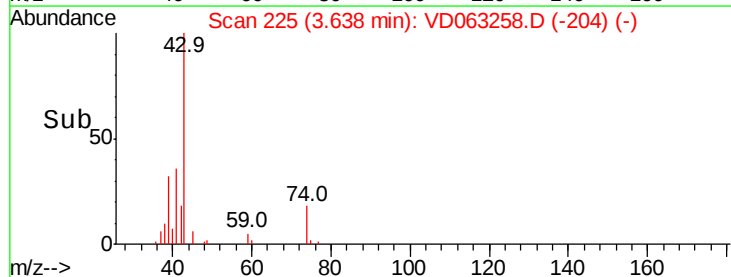
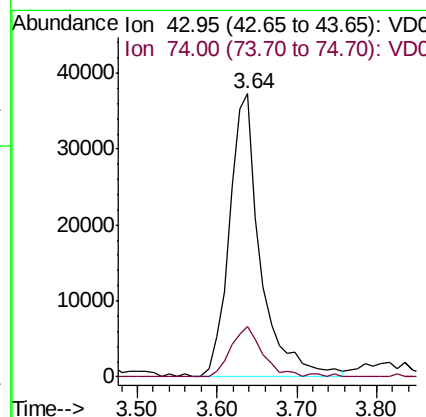
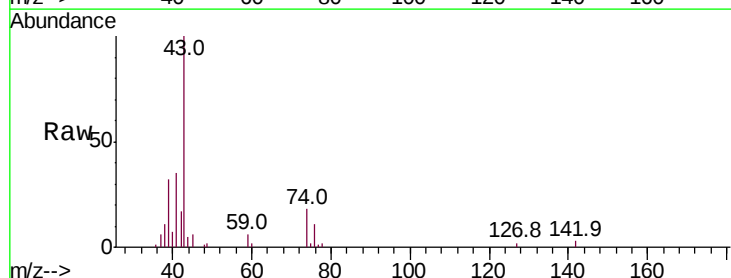
Instrument :
MSVOA_D
ClientSampleId :
VD0730SBSD02

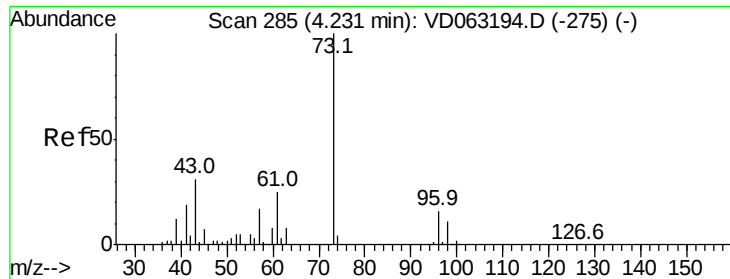
Tot Ion: 76 Resp: 485343
Ion Ratio Lower Upper
76 100
78 9.5 7.4 11.2



#18
Methyl Acetate
Concen: 25.464 ug/l
RT: 3.64 min Scan# 225
Delta R.T. 0.01 min
Lab File: VD063258.D
Acq: 31 Jul 2019 1:05

Tgt Ion: 43 Resp: 101627
Ion Ratio Lower Upper
43 100
74 18.0 13.8 20.8

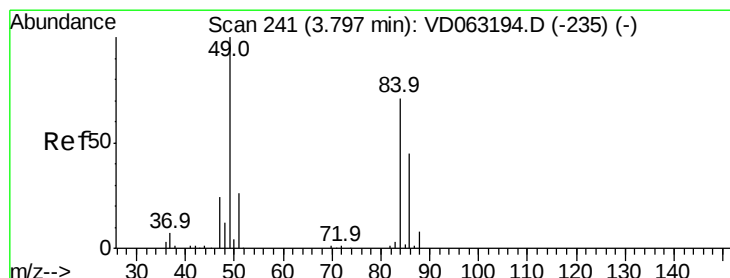
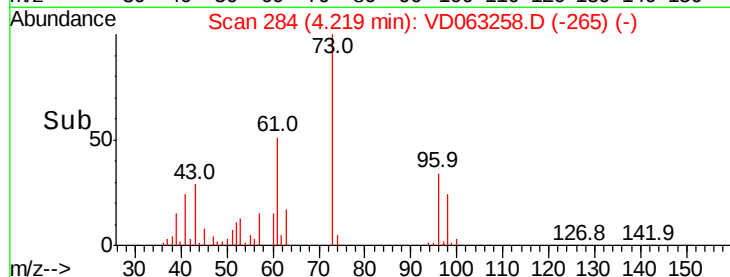
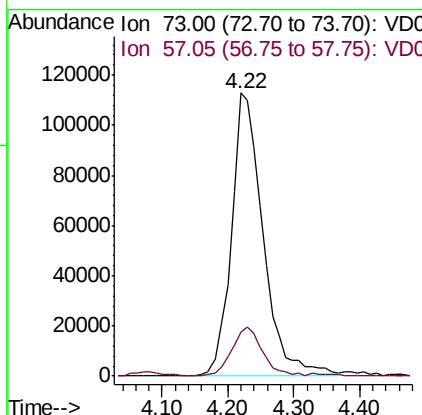
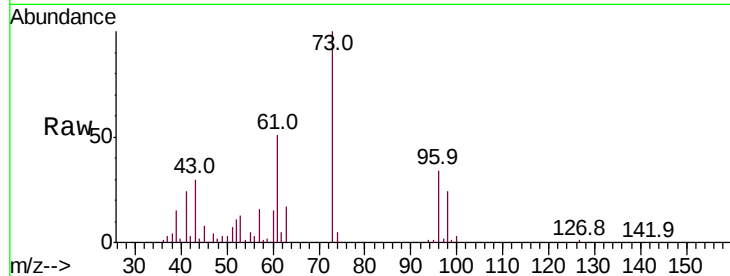




#19
Methyl tert-butyl Ether
Concen: 22.582 ug/l
RT: 4.22 min Scan# 284
Delta R.T. -0.01 min
Lab File: VD063258.D
Acq: 31 Jul 2019 1:05

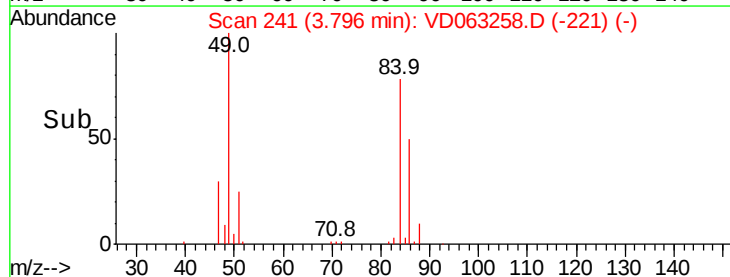
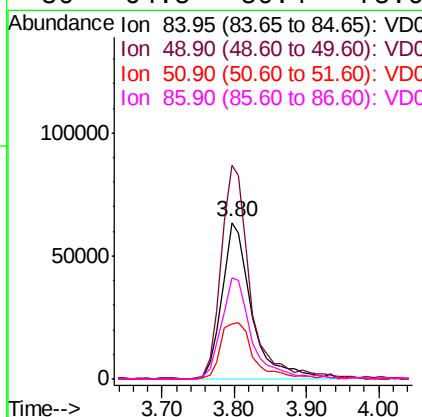
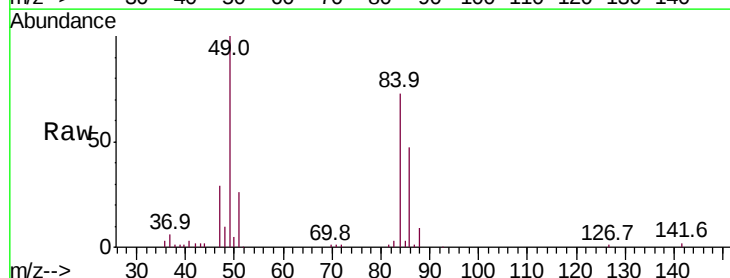
Instrument :
MSVOA_D
ClientSampleId :
VD0730SBS02

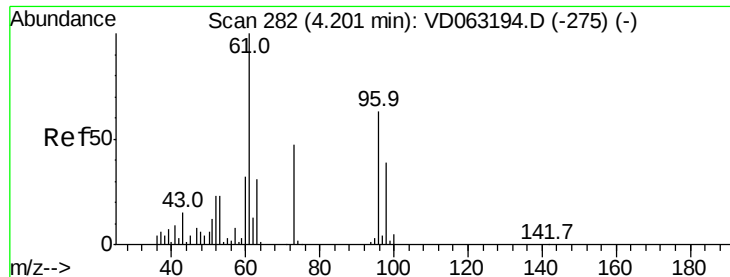
Tot Ion: 73 Resp: 380255
Ion Ratio Lower Upper
73 100
57 15.7 13.8 20.6



#20
Methylene Chloride
Concen: 21.622 ug/l
RT: 3.80 min Scan# 241
Delta R.T. -0.00 min
Lab File: VD063258.D
Acq: 31 Jul 2019 1:05

Tgt Ion: 84 Resp: 181599
Ion Ratio Lower Upper
84 100
49 136.5 112.5 168.7
51 34.9 29.6 44.4
86 64.5 50.4 75.6





#21

trans-1,2-Dichloroethene

Concen: 20.540 ug/l

RT: 4.20 min Scan# 282

Delta R.T. -0.00 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

Instrument :

MSVOA_D

ClientSampleId :

VD0730SBS02

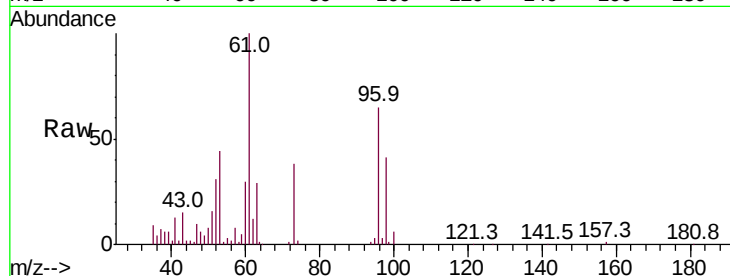
Tot Ion: 96 Resp: 171801

Ion Ratio Lower Upper

96 100

61 153.0 127.4 191.2

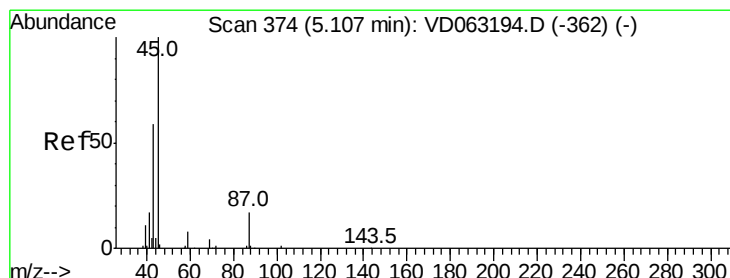
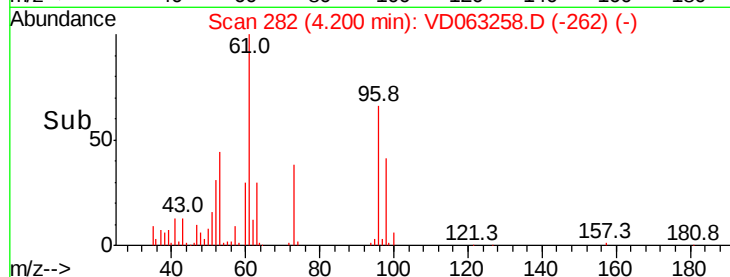
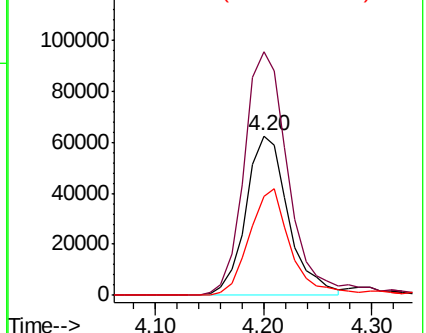
98 62.0 49.3 73.9



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: 21.417 ug/l

RT: 5.12 min Scan# 375

Delta R.T. 0.01 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

Tgt Ion: 45 Resp: 508139

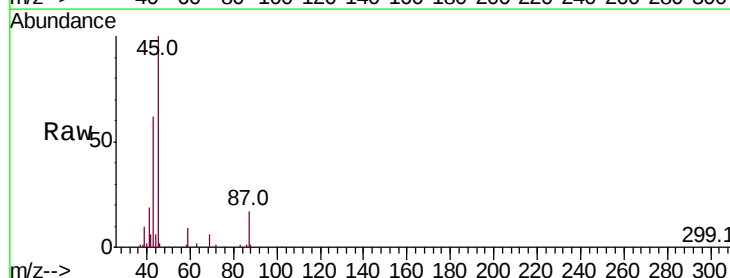
Ion Ratio Lower Upper

45 100

43 61.7 51.7 77.5

87 16.7 14.6 21.8

59 8.9 6.6 10.0

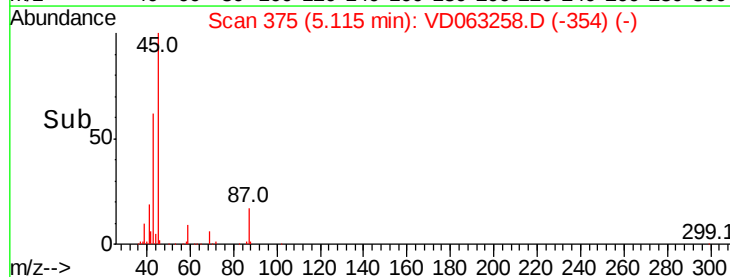
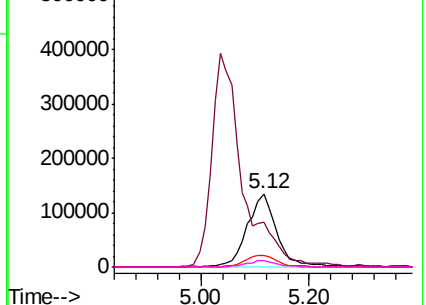


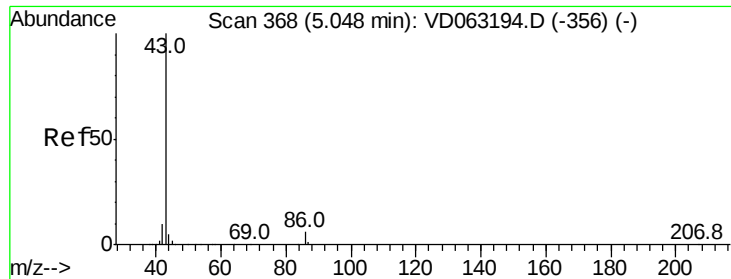
Abundance Ion 45.05 (44.75 to 45.75): VDC

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: 106.374 ug/l

RT: 5.04 min Scan# 367

Delta R.T. -0.01 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

Instrument :

MSVOA_D

ClientSampleID :

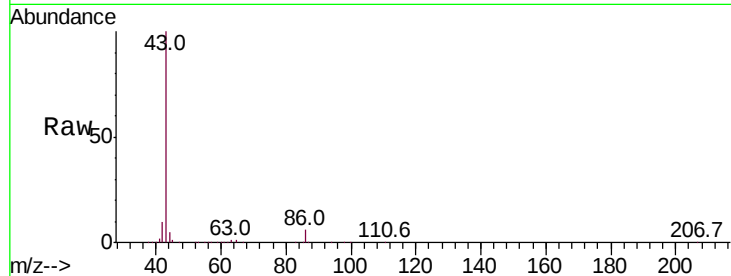
VD0730SBS02

Tot Ion: 43 Resp: 1551367

Ion Ratio Lower Upper

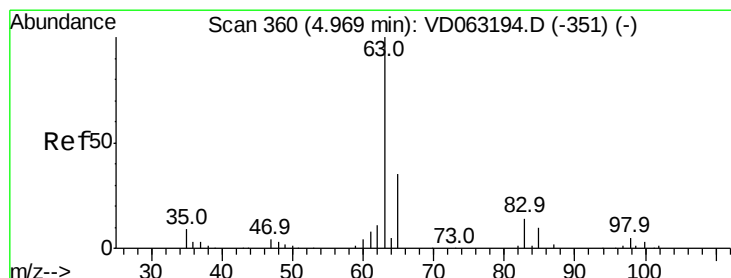
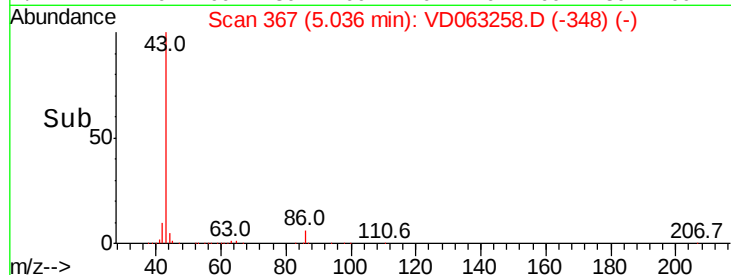
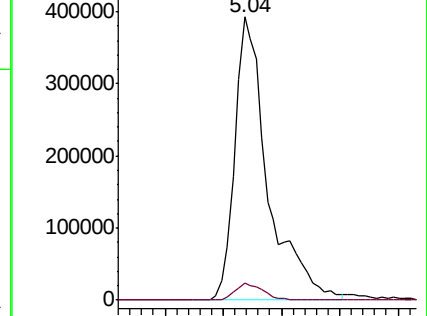
43 100

86 5.9 4.9 7.3



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 20.957 ug/l

RT: 4.97 min Scan# 360

Delta R.T. -0.00 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

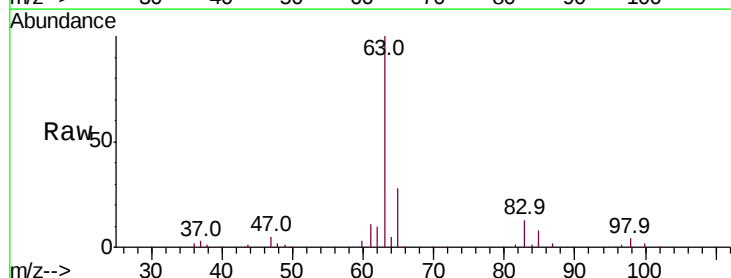
Tgt Ion: 63 Resp: 317595

Ion Ratio Lower Upper

63 100

98 3.7 2.8 8.4

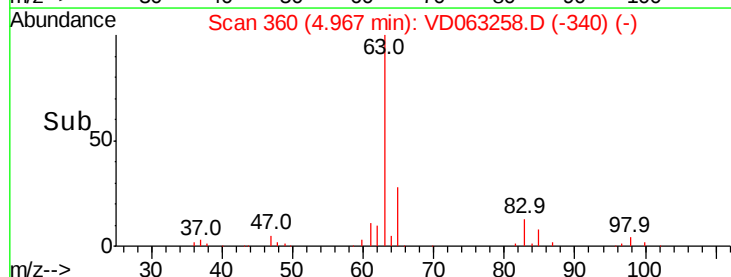
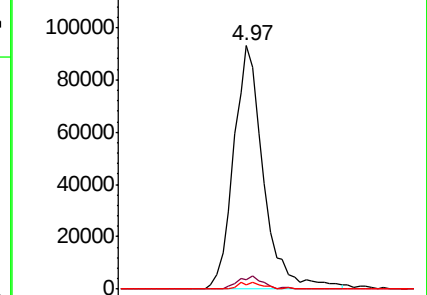
100 1.9 1.3 3.9

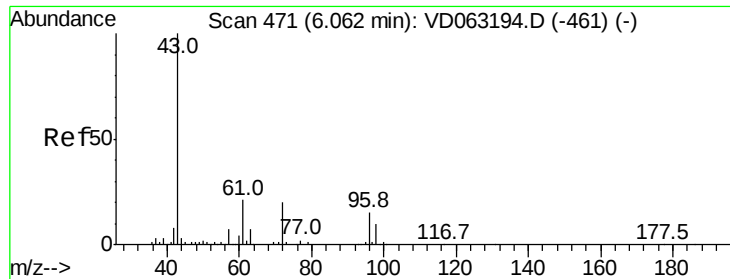


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 112.050 ug/l

RT: 6.07 min Scan# 472

Delta R.T. 0.01 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

Instrument :

MSVOA_D

ClientSampleId :

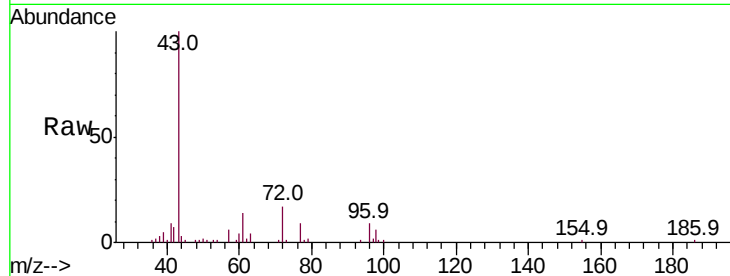
VD0730SBS02

Tot Ion: 43 Resp: 233650

Ion Ratio Lower Upper

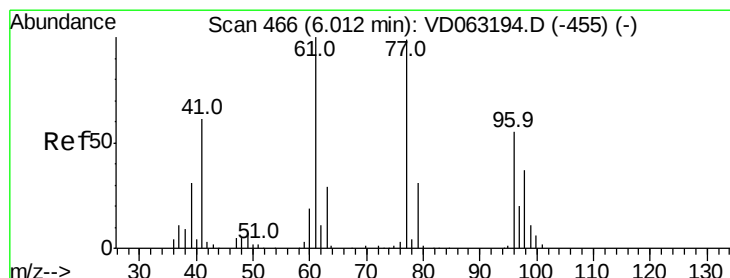
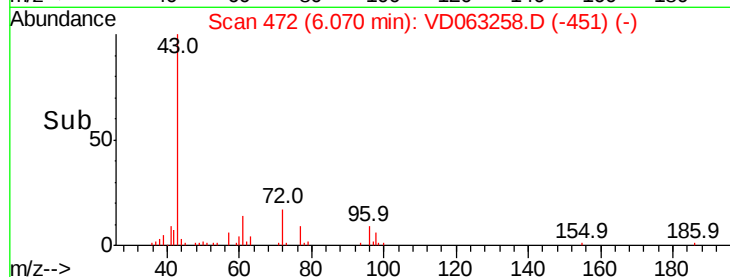
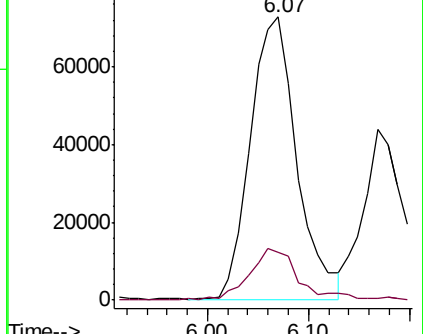
43 100

72 16.8 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: 17.727 ug/l

RT: 6.01 min Scan# 466

Delta R.T. -0.00 min

Lab File: VD063258.D

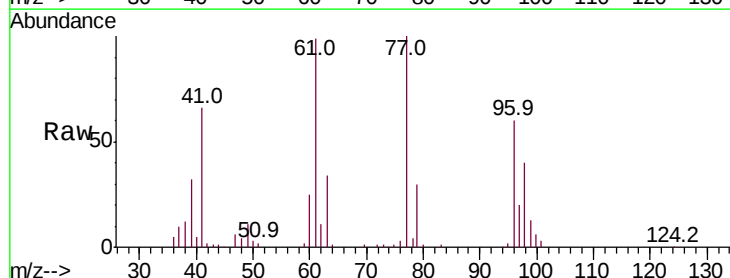
Acq: 31 Jul 2019 1:05

Tgt Ion: 77 Resp: 276857

Ion Ratio Lower Upper

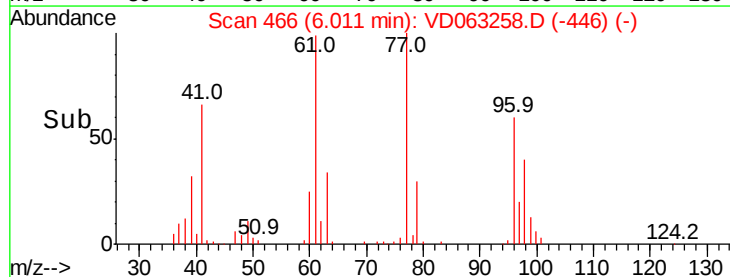
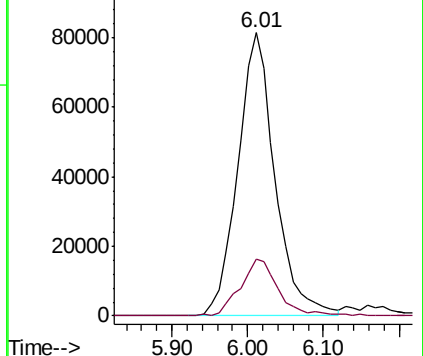
77 100

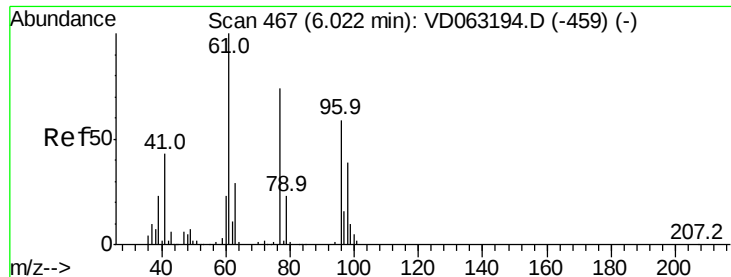
97 20.2 10.2 30.6



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



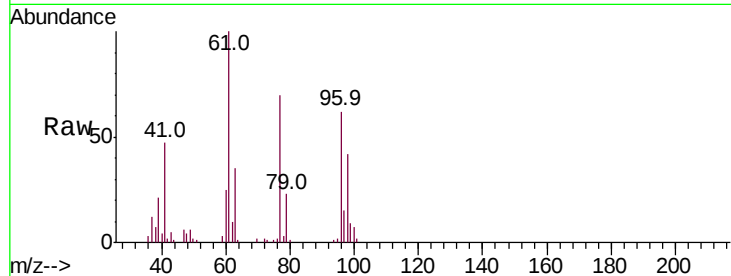


#27

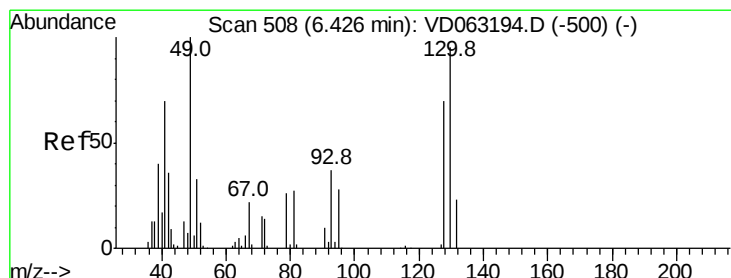
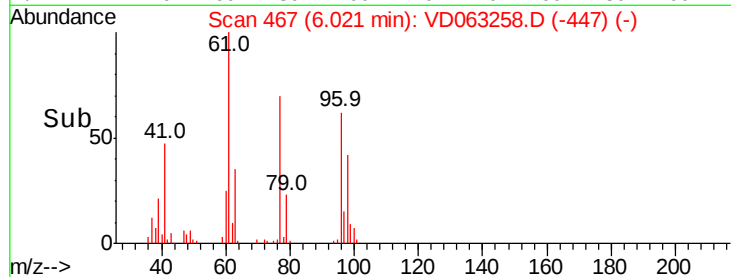
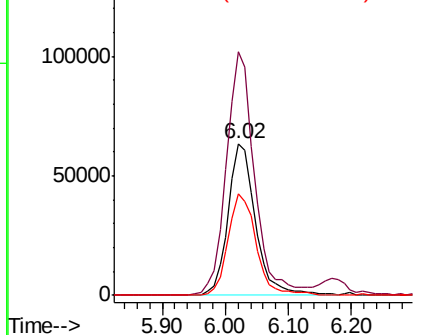
cis-1,2-Dichloroethene
Concen: 21.316 ug/l
RT: 6.02 min Scan# 467
Delta R.T. -0.00 min
Lab File: VD063258.D
Acq: 31 Jul 2019 1:05

Instrument :
MSVOA_D
ClientSampleId :
VD0730SBSD02

Tot Ion	Ratio	Lower	Upper
96	100		
61	160.3	0.0	337.2
98	66.8	0.0	130.6



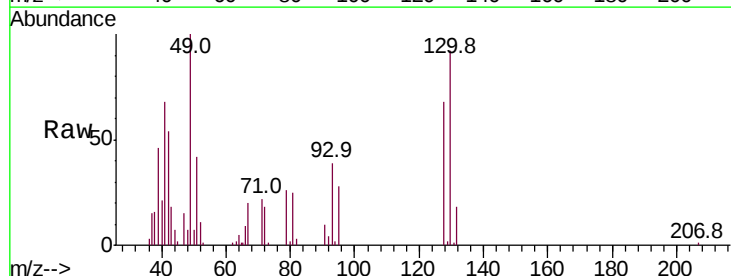
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



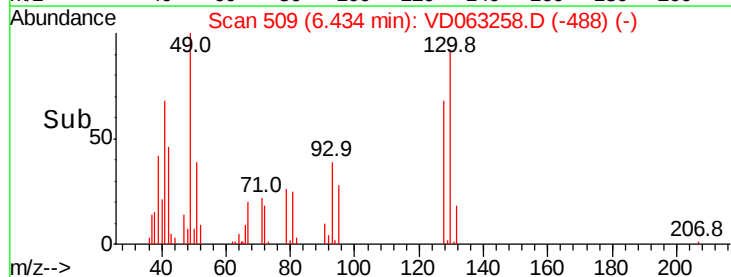
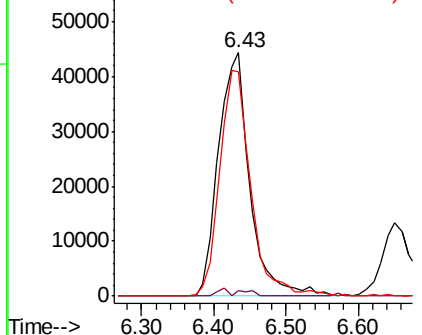
#28

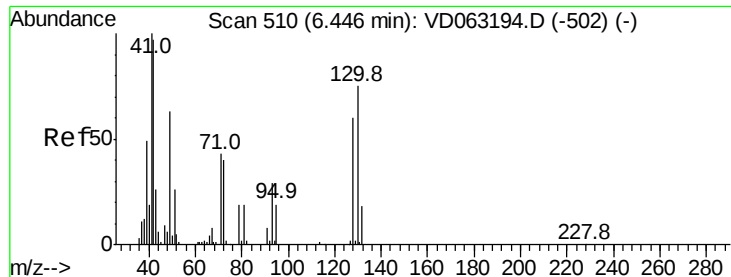
Bromochloromethane
Concen: 22.024 ug/l
RT: 6.43 min Scan# 509
Delta R.T. 0.01 min
Lab File: VD063258.D
Acq: 31 Jul 2019 1:05

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	0.0#
130	92.4	75.7	113.5



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





#29

Tetrahydrofuran

Concen: 115.177 ug/l

RT: 6.45 min Scan# 511

Delta R.T. 0.01 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

Instrument :

MSVOA_D

ClientSampleId :

VD0730SBS02

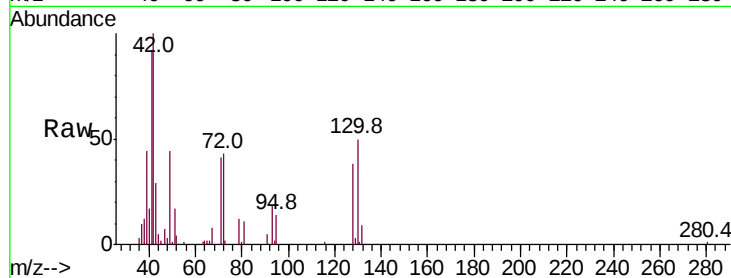
Tot Ion: 42 Resp: 113708

Ion Ratio Lower Upper

42 100

72 44.2 33.4 50.2

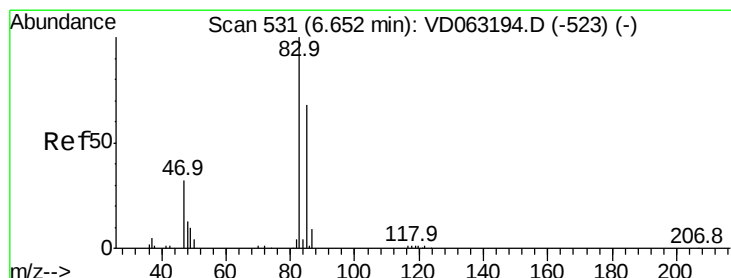
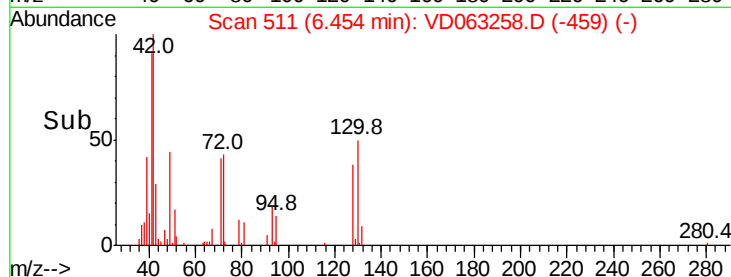
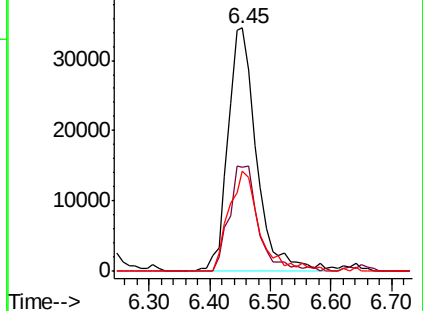
71 43.9 35.7 53.5



Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC



#30

Chloroform

Concen: 21.775 ug/l

RT: 6.65 min Scan# 531

Delta R.T. -0.00 min

Lab File: VD063258.D

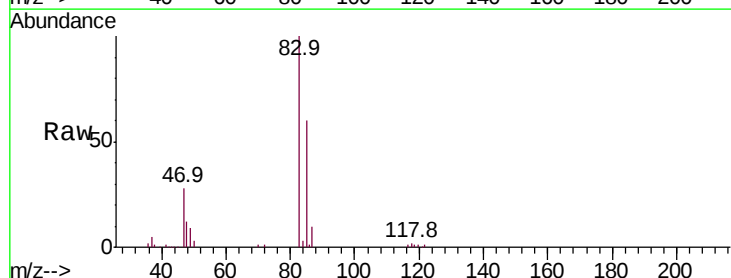
Acq: 31 Jul 2019 1:05

Tgt Ion: 83 Resp: 409519

Ion Ratio Lower Upper

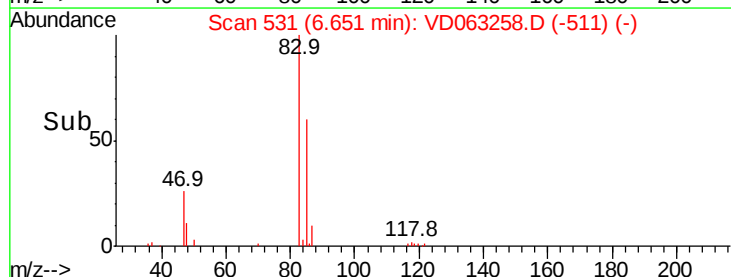
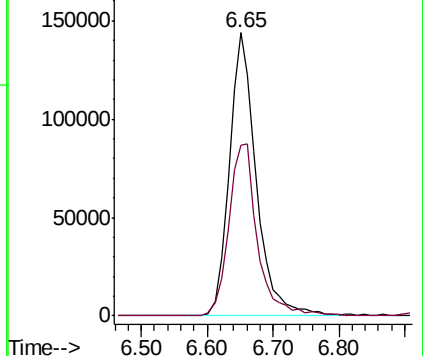
83 100

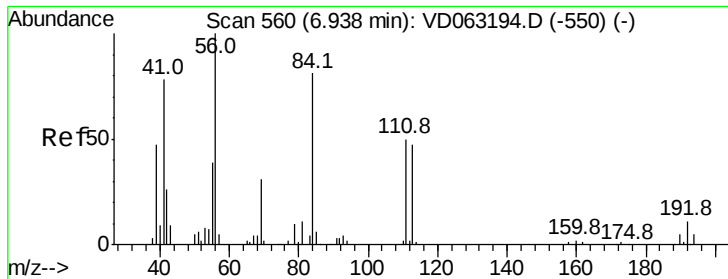
85 60.2 54.2 81.4



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC





#31

Cyclohexane

Concen: 18.784 ug/l

RT: 6.94 min Scan# 560

Delta R.T. -0.00 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

Instrument :

MSVOA_D

ClientSampleId :

VD0730SBS02

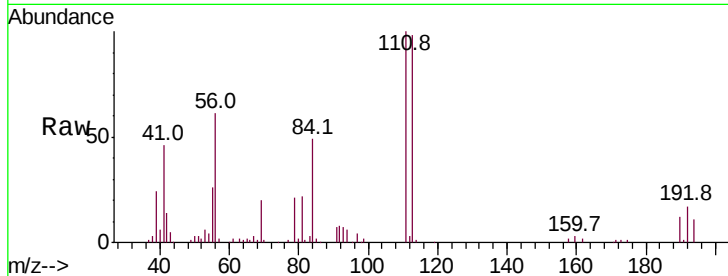
Tot Ion: 56 Resp: 178434

Ion Ratio Lower Upper

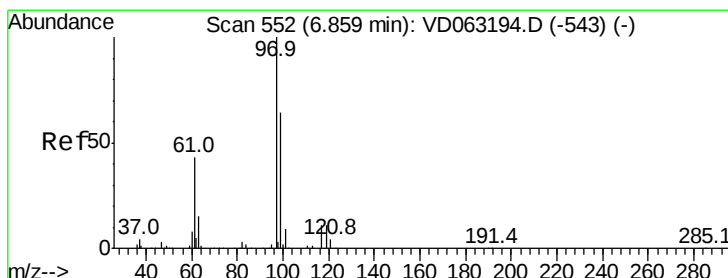
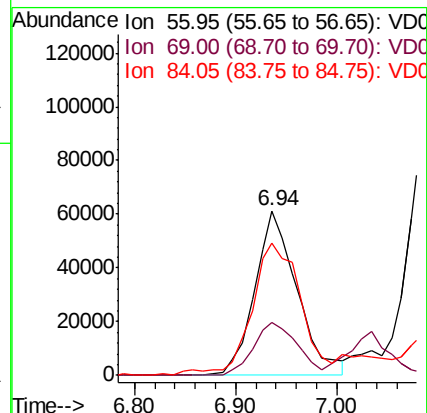
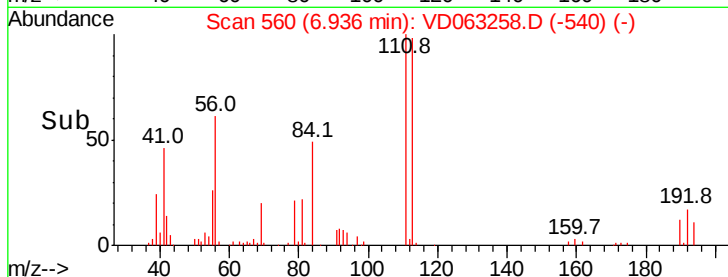
56 100

69 32.3 24.5 36.7

84 80.3 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: 20.613 ug/l

RT: 6.87 min Scan# 553

Delta R.T. 0.01 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

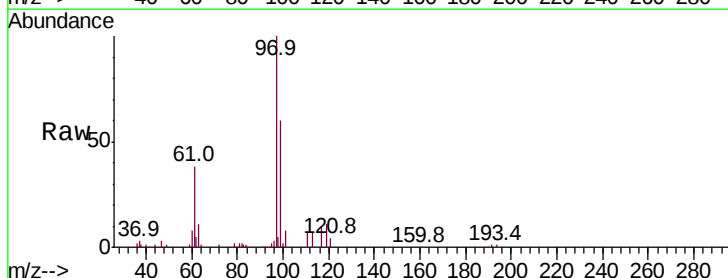
Tgt Ion: 97 Resp: 374986

Ion Ratio Lower Upper

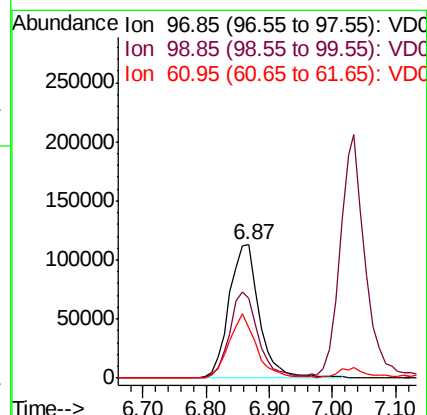
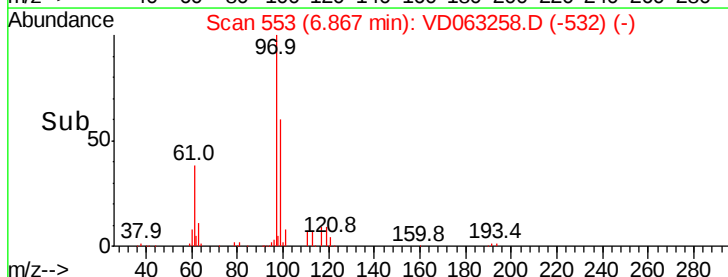
97 100

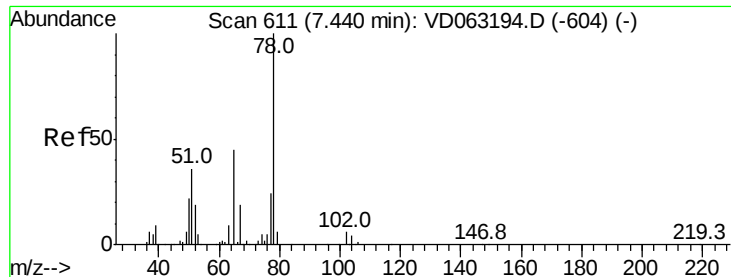
99 59.8 51.2 76.8

61 37.5 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: 53.844 ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.00 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

Instrument :

MSVOA_D

ClientSampleId :

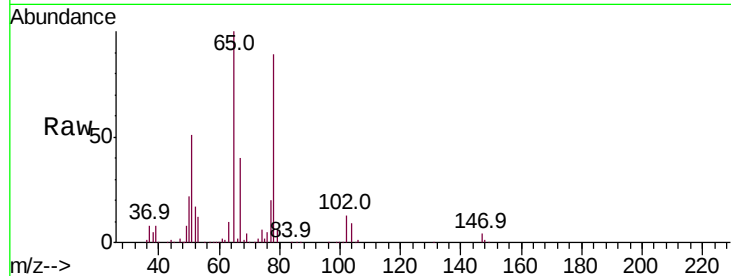
VD0730SBS02

Tot Ion: 65 Resp: 574191

Ion Ratio Lower Upper

65 100

67 40.5 0.0 85.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

250000

200000

150000

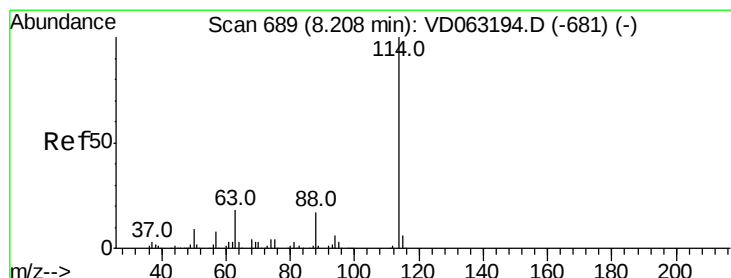
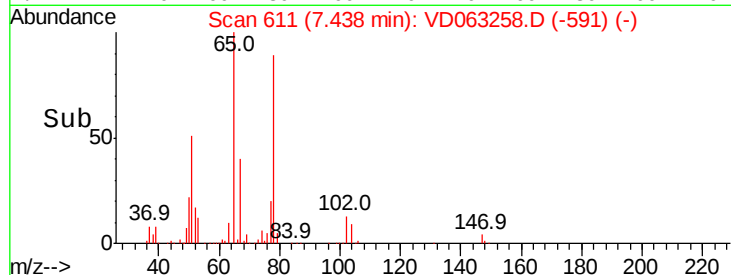
100000

50000

0

7.30 7.40 7.50 7.60

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 689

Delta R.T. -0.00 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

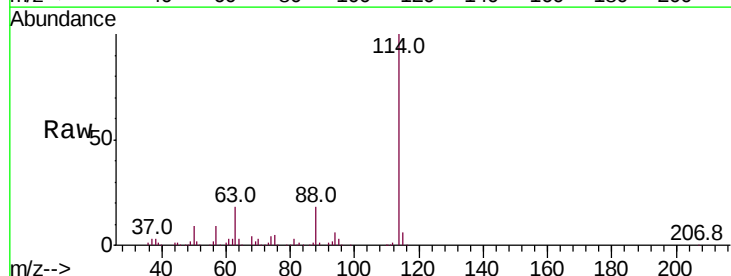
Tgt Ion: 114 Resp: 1360672

Ion Ratio Lower Upper

114 100

63 17.9 0.0 35.2

88 17.8 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

600000

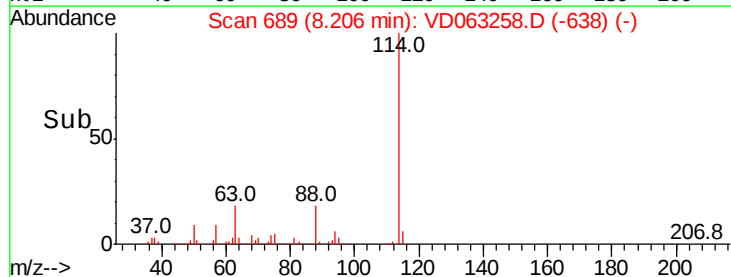
400000

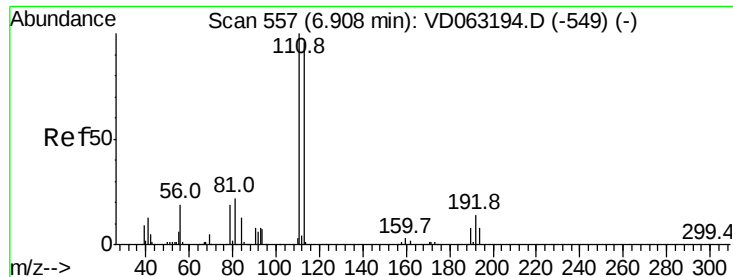
200000

0

8.10 8.20 8.30

Time-->





#35

Dibromofluoromethane

Concen: 55.163 ug/l

RT: 6.92 min Scan# 558

Delta R.T. 0.01 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

Instrument :

MSVOA_D

ClientSampleId :

VD0730SBSD02

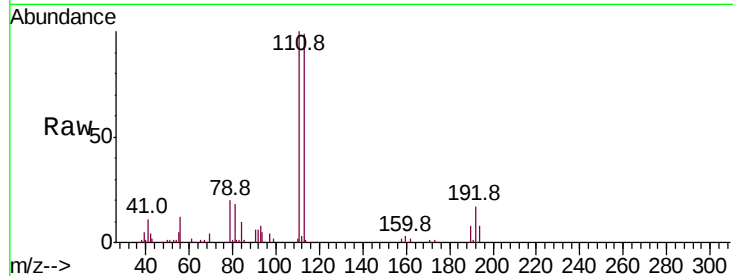
Tot Ion:113 Resp: 640841

Ion Ratio Lower Upper

113 100

111 100.7 83.2 124.8

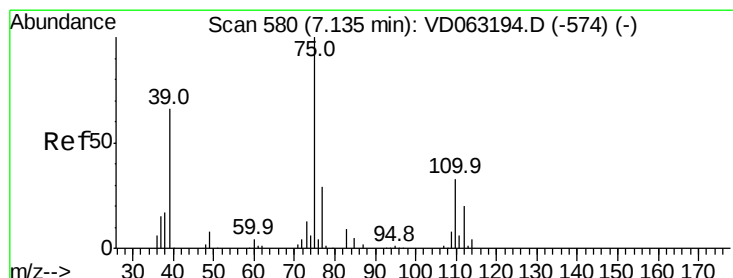
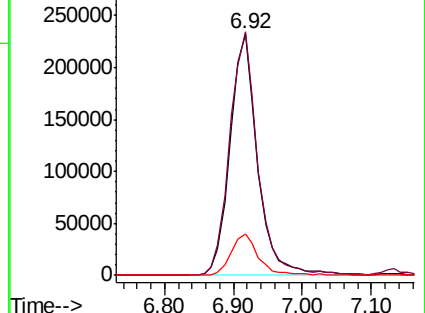
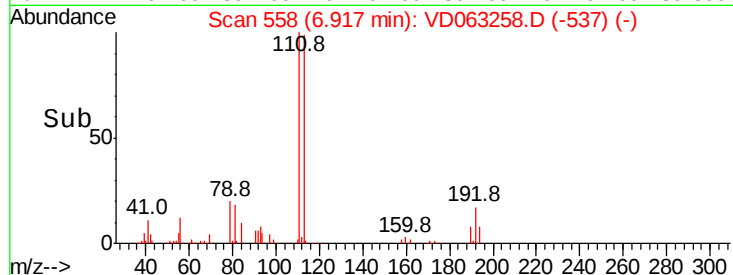
192 17.3 11.8 17.8



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 19.035 ug/l

RT: 7.13 min Scan# 580

Delta R.T. -0.00 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

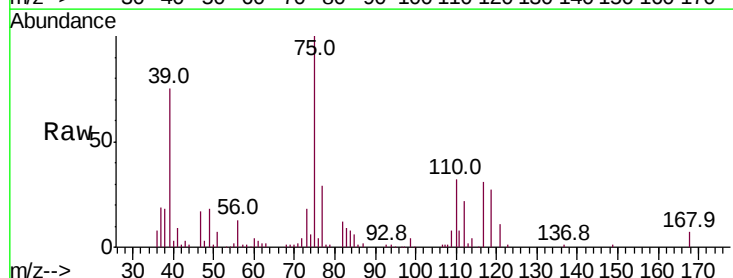
Tgt Ion: 75 Resp: 236370

Ion Ratio Lower Upper

75 100

110 31.7 16.1 48.2

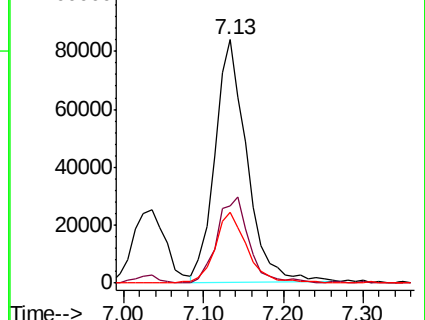
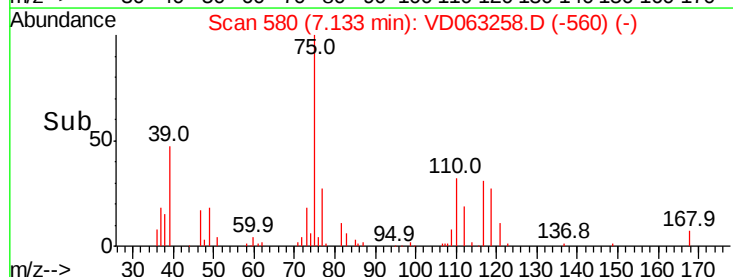
77 28.9 22.7 34.1

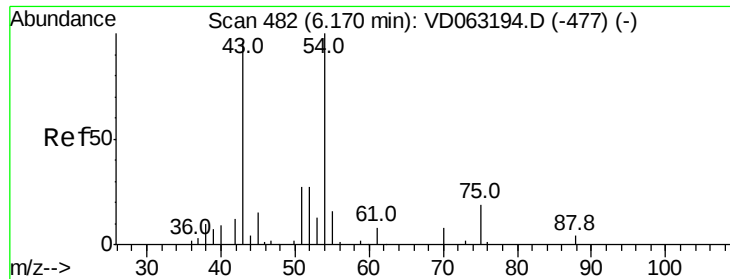


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

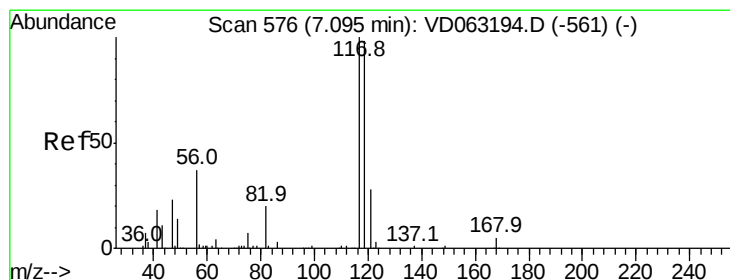
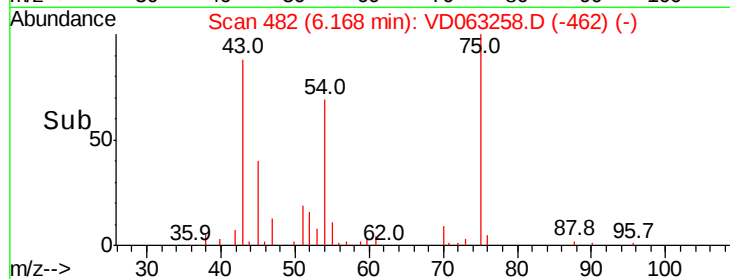
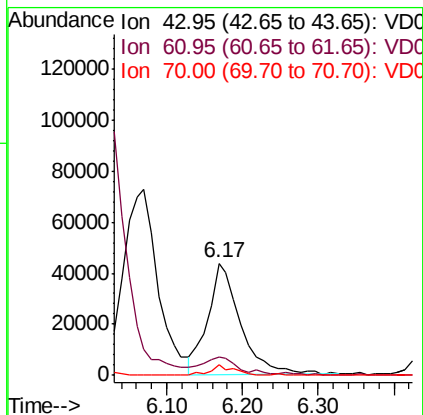
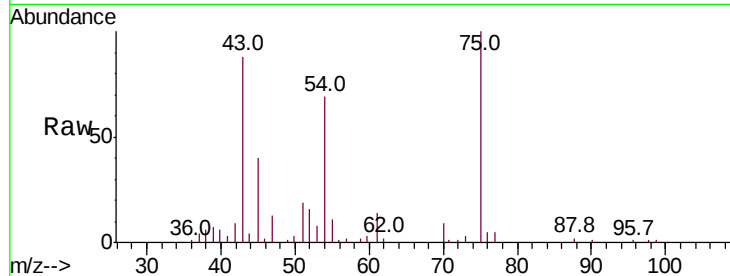




#37
Ethyl Acetate
Concen: 23.316 ug/l
RT: 6.17 min Scan# 482
Delta R.T. -0.00 min
Lab File: VD063258.D
Acq: 31 Jul 2019 1:05

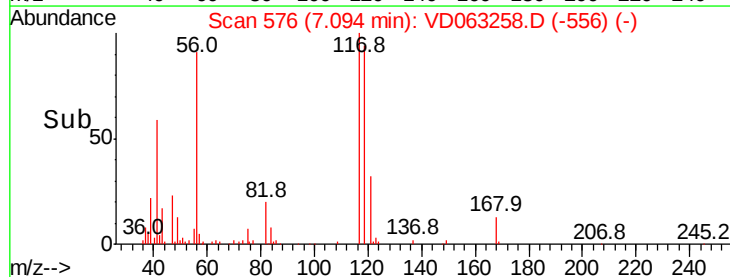
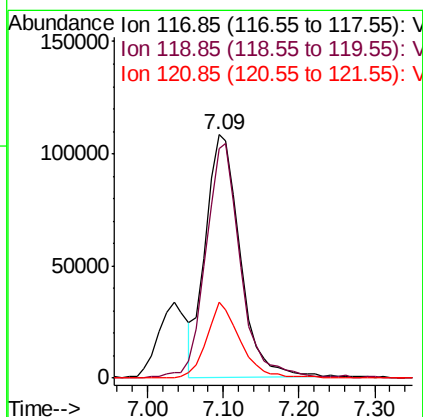
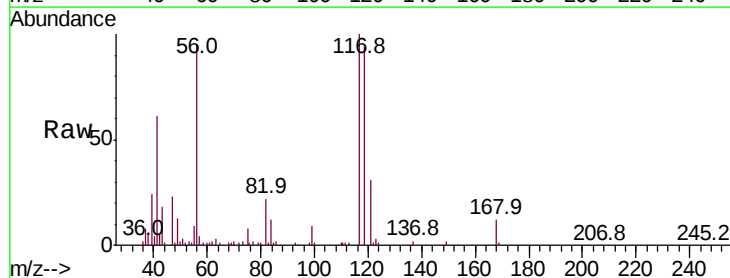
Instrument :
MSVOA_D
ClientSampleId :
VD0730SBS02

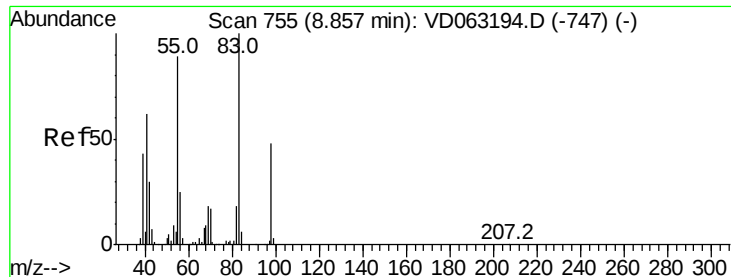
Tot Ion: 43 Resp: 130075
Ion Ratio Lower Upper
43 100
61 16.1 11.3 16.9
70 10.0 5.1 7.7#



#38
Carbon Tetrachloride
Concen: 18.235 ug/l
RT: 7.09 min Scan# 576
Delta R.T. -0.00 min
Lab File: VD063258.D
Acq: 31 Jul 2019 1:05

Tgt Ion: 117 Resp: 340895
Ion Ratio Lower Upper
117 100
119 94.3 78.2 117.2
121 31.1 22.1 33.1

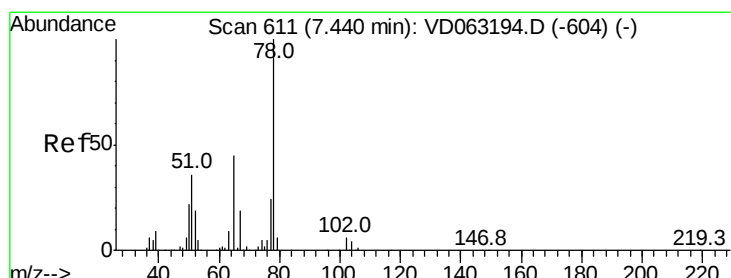
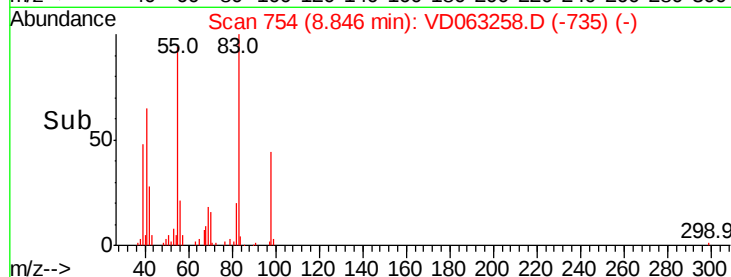
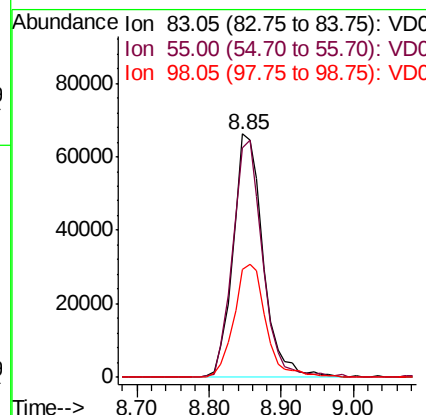
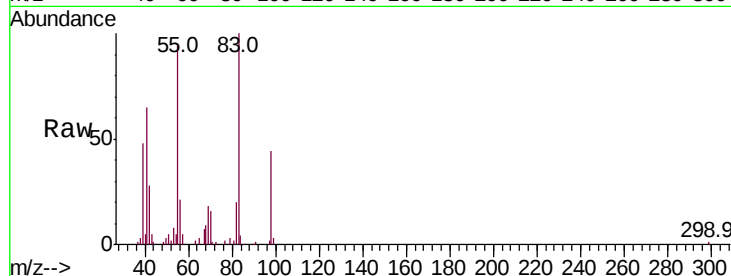




#39
Methvlcvclohexane
Concen: 18.556 ug/l
RT: 8.85 min Scan# 754
Delta R.T. -0.01 min
Lab File: VD063258.D
Acq: 31 Jul 2019 1:05

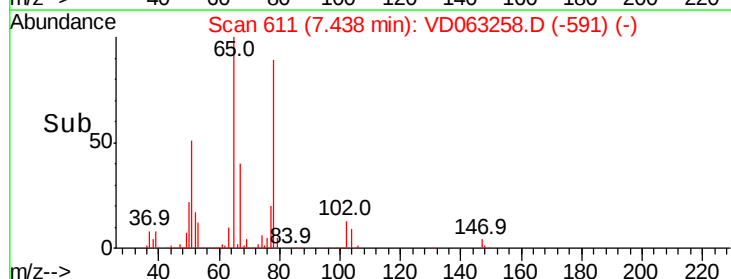
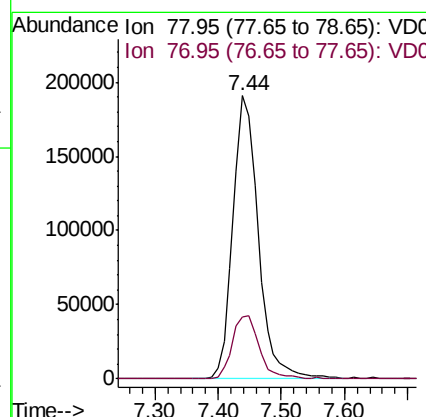
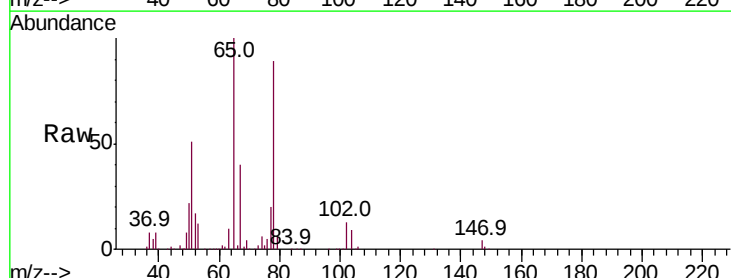
Instrument :
MSVOA_D
ClientSampleId :
VD0730SBSD02

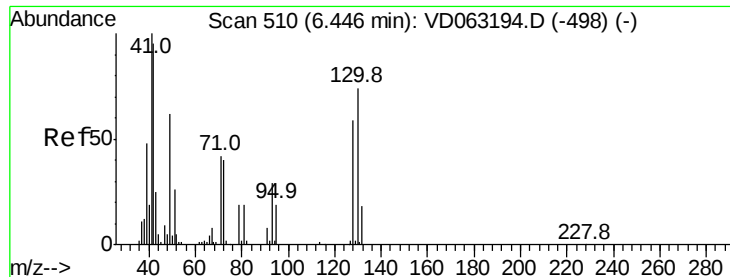
Tot Ion	83	Resp	191978
Ion Ratio	Lower	Upper	
83	100		
55	94.2	71.1	106.7
98	44.5	38.5	57.7



#40
Benzene
Concen: 20.457 ug/l
RT: 7.44 min Scan# 611
Delta R.T. -0.00 min
Lab File: VD063258.D
Acq: 31 Jul 2019 1:05

Tgt Ion	78	Resp	532412
Ion Ratio	Lower	Upper	
78	100		
77	21.9	19.4	29.2





#41

Methacrylonitrile

Concen: 21.166 ug/l

RT: 6.45 min Scan# 511

Delta R.T. 0.01 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

Instrument :

MSVOA_D

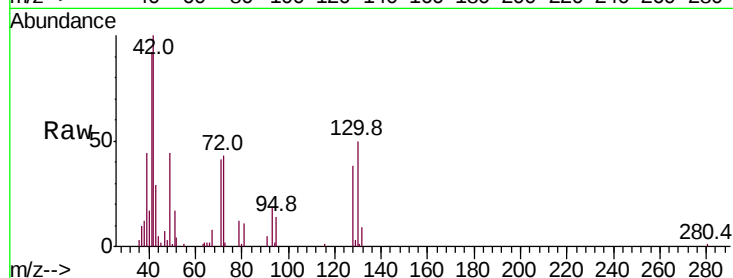
ClientSampleId :

VD0730SBSD02

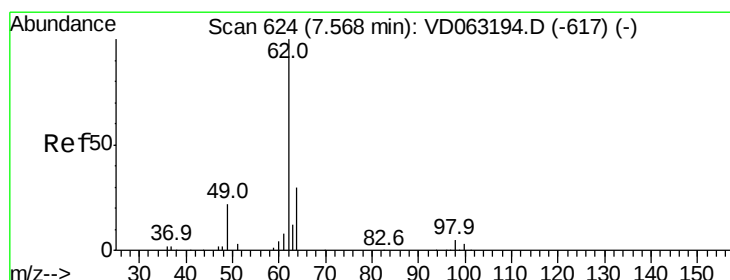
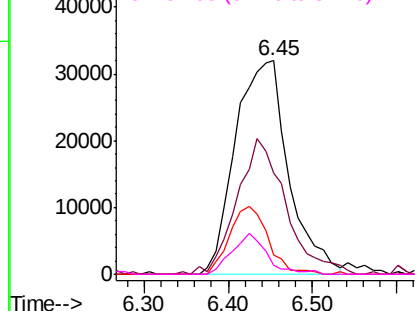
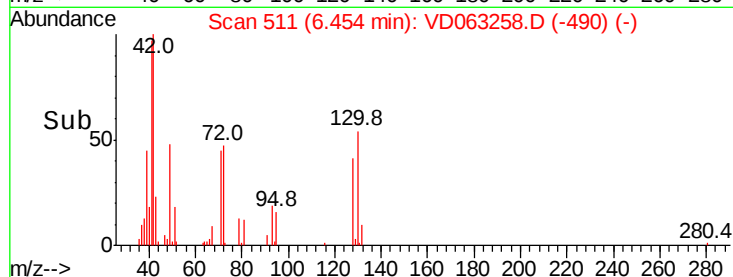
Tot Ion: 41 Resp: 141250

Ion Ratio Lower Upper

41	100		
39	47.6	38.4	57.6
67	8.9	6.7	10.1
52	4.3	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: 22.003 ug/l

RT: 7.57 min Scan# 624

Delta R.T. -0.00 min

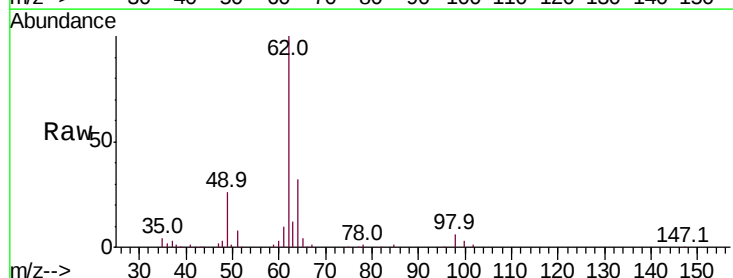
Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

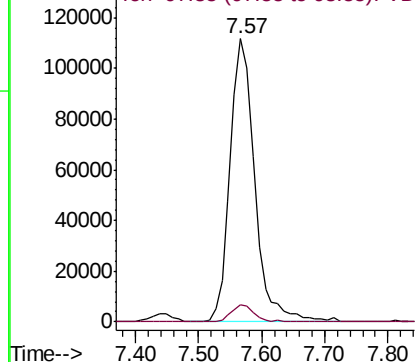
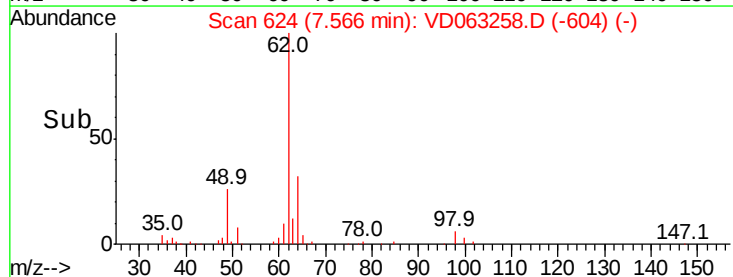
Tgt Ion: 62 Resp: 303489

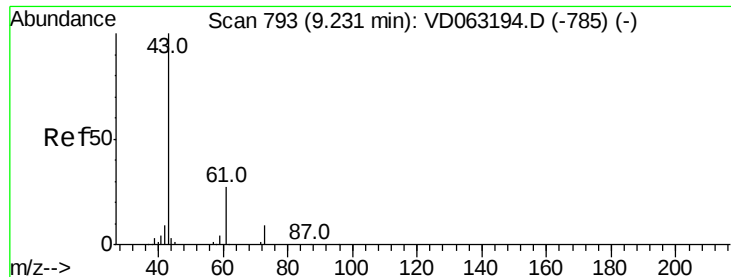
Ion Ratio Lower Upper

62	100		
98	6.1	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: 21.040 ug/l

RT: 9.23 min Scan# 793

Delta R.T. -0.00 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

Instrument :

MSVOA_D

ClientSampleId :

VD0730SBS02

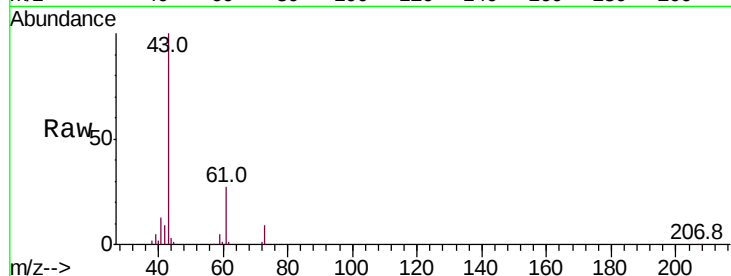
Tot Ion: 43 Resp: 149941

Ion Ratio Lower Upper

43 100

61 27.4 21.4 32.0

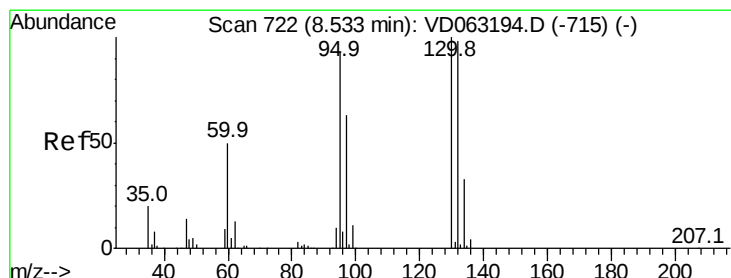
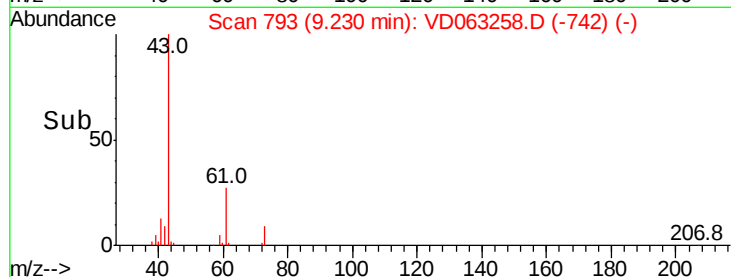
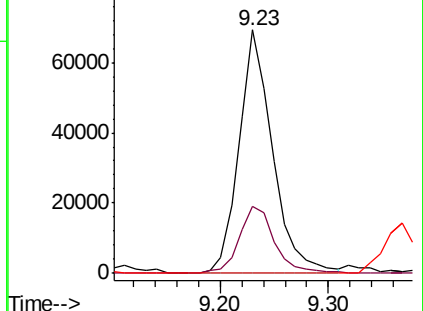
87 0.0 0.2 0.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 18.017 ug/l

RT: 8.53 min Scan# 722

Delta R.T. -0.00 min

Lab File: VD063258.D

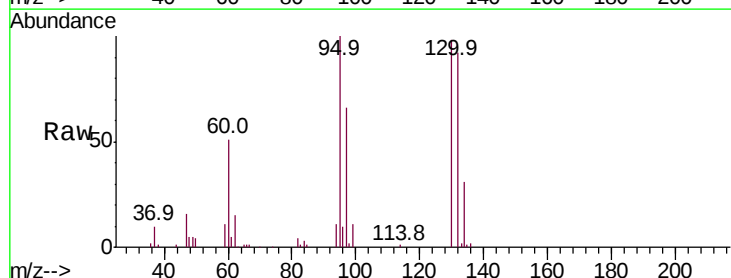
Acq: 31 Jul 2019 1:05

Tgt Ion:130 Resp: 190002

Ion Ratio Lower Upper

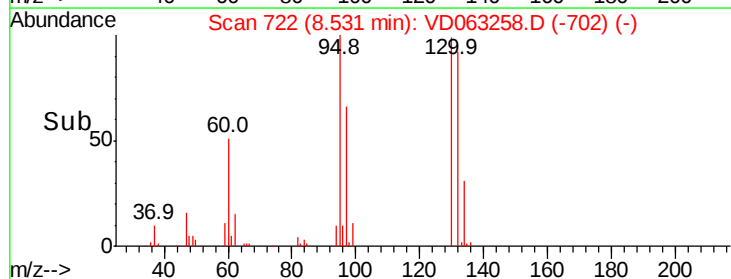
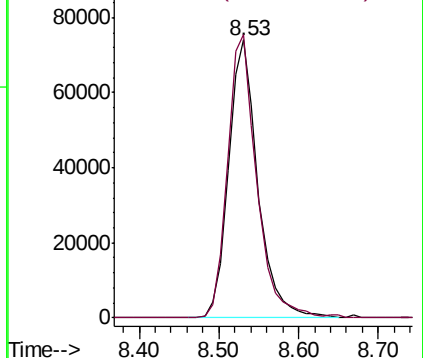
130 100

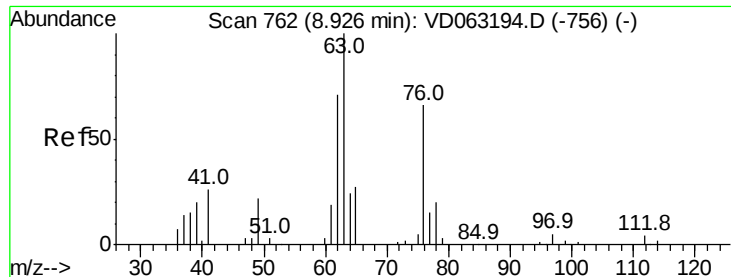
95 101.9 0.0 185.4



Abundance Ion 129.80 (129.50 to 130.50): VDC

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 20.850 ug/l

RT: 8.92 min Scan# 762

Delta R.T. -0.00 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

Instrument :

MSVOA_D

ClientSampleId :

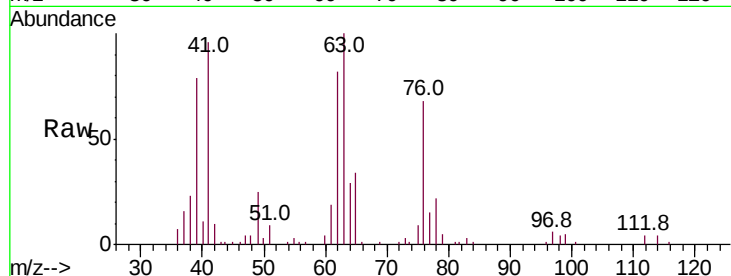
VD0730SBS02

Tot Ion: 63 Resp: 137922

Ion Ratio Lower Upper

63 100

65 34.3 23.6 35.4



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

8.92

60000

50000

40000

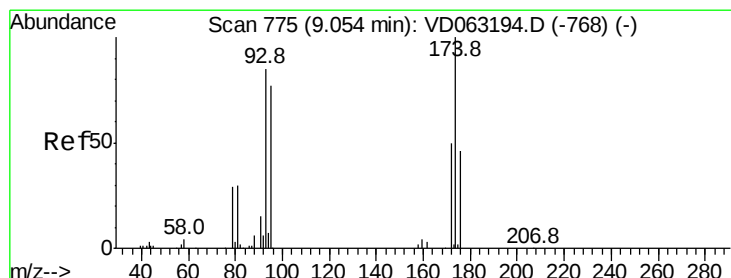
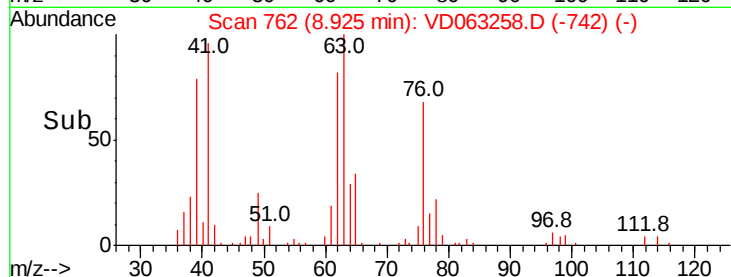
30000

20000

10000

0

Time--> 8.80 8.90 9.00



#46

Dibromomethane

Concen: 21.361 ug/l

RT: 9.05 min Scan# 775

Delta R.T. -0.00 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

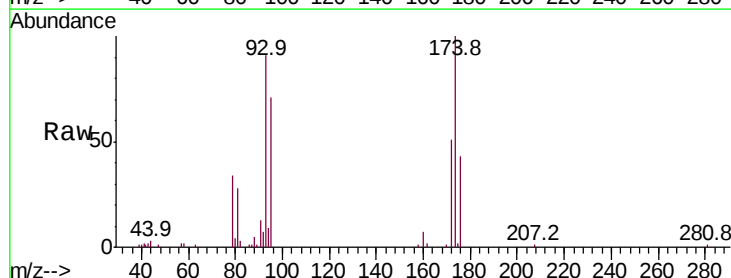
Tgt Ion: 93 Resp: 117491

Ion Ratio Lower Upper

93 100

95 78.5 72.8 109.2

174 110.2 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

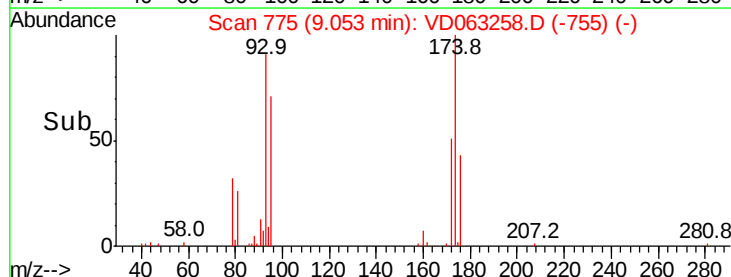
60000

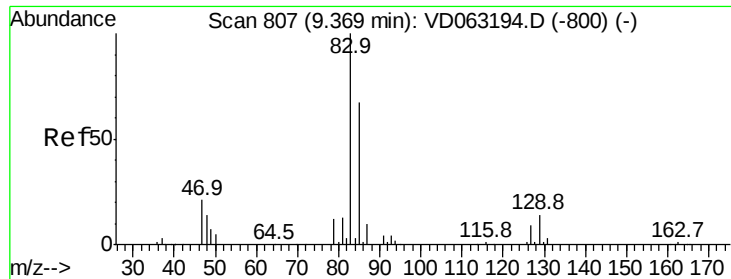
40000

20000

0

Time--> 9.00 9.10

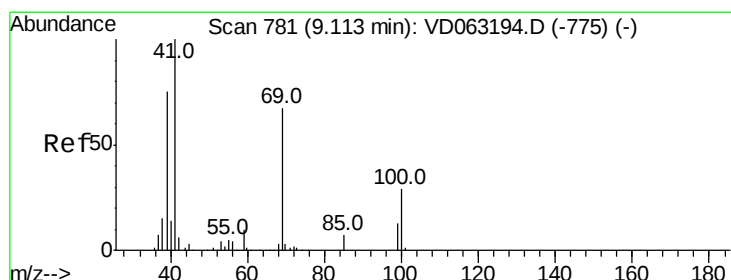
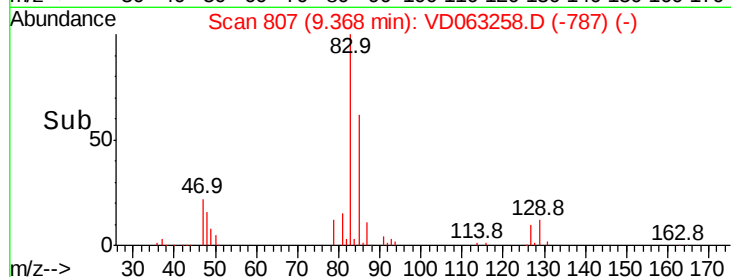
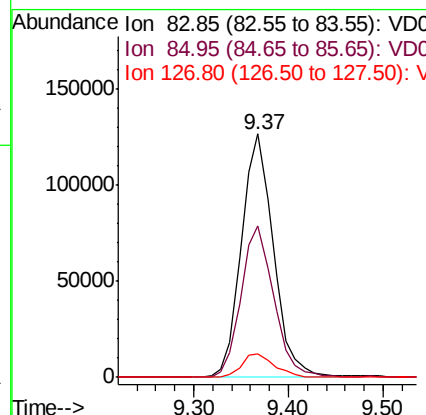
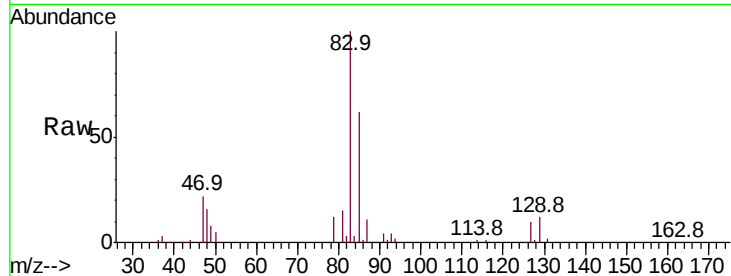




#47
Bromodichloromethane
Concen: 21.140 ug/l
RT: 9.37 min Scan# 807
Delta R.T. -0.00 min
Lab File: VD063258.D
Acq: 31 Jul 2019 1:05

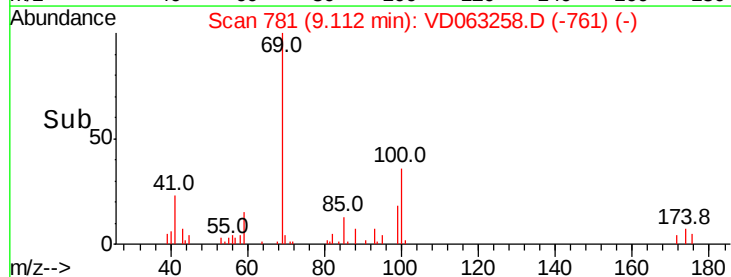
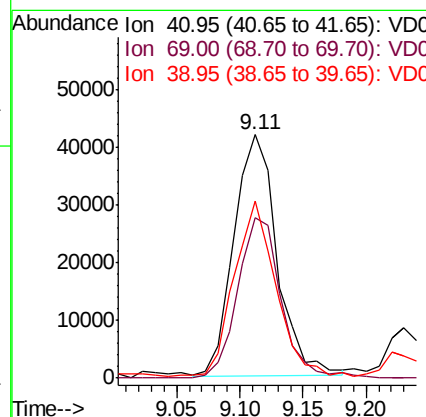
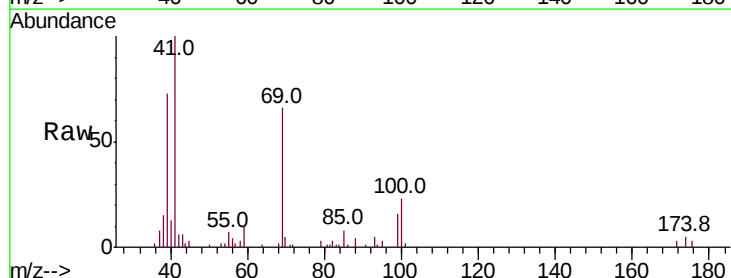
Instrument :
MSVOA_D
ClientSampleId :
VD0730SBSD02

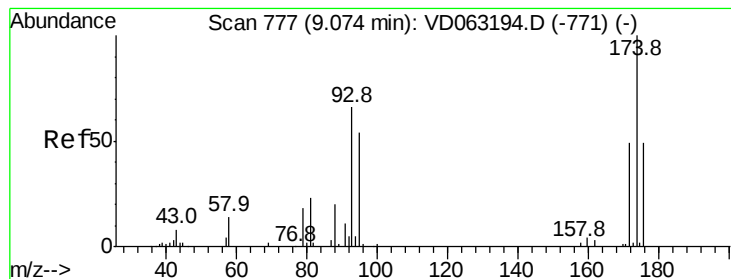
Tot Ion: 83 Resp: 296394
Ion Ratio Lower Upper
83 100
85 62.3 53.6 80.4
127 9.7 7.2 10.8



#48
Methyl methacrylate
Concen: 21.280 ug/l
RT: 9.11 min Scan# 781
Delta R.T. -0.00 min
Lab File: VD063258.D
Acq: 31 Jul 2019 1:05

Tgt Ion: 41 Resp: 98356
Ion Ratio Lower Upper
41 100
69 65.7 53.4 80.0
39 72.6 60.3 90.5





#49

1,4-Dioxane

Concen: 511.927 ug/l

RT: 9.07 min Scan# 777

Delta R.T. -0.00 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

Instrument :

MSVOA_D

ClientSampleId :

VD0730SBSD02

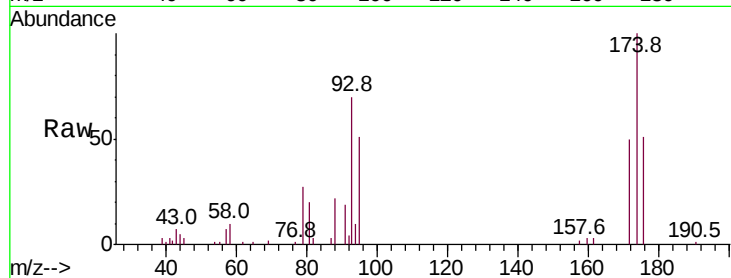
Tot Ion: 88 Resp: 20122

Ion Ratio Lower Upper

88 100

43 31.1 30.7 46.1

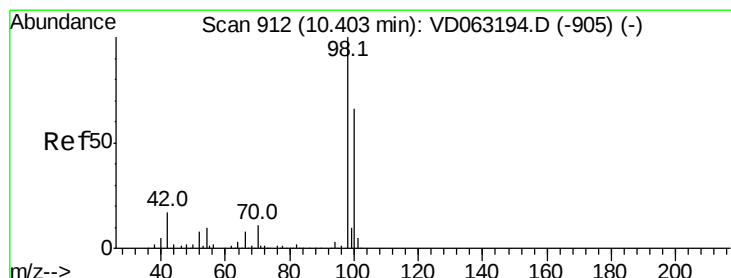
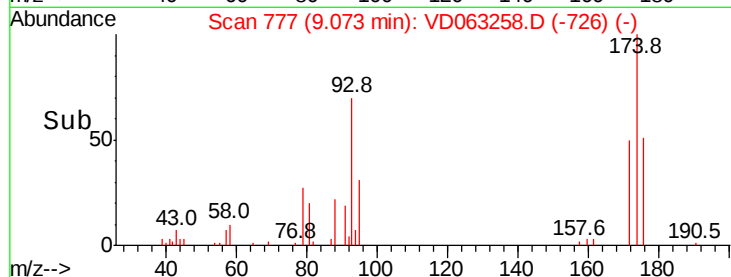
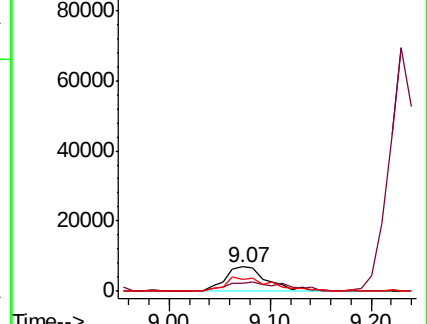
58 46.9 56.5 84.7#



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: 54.331 ug/l

RT: 10.40 min Scan# 912

Delta R.T. -0.00 min

Lab File: VD063258.D

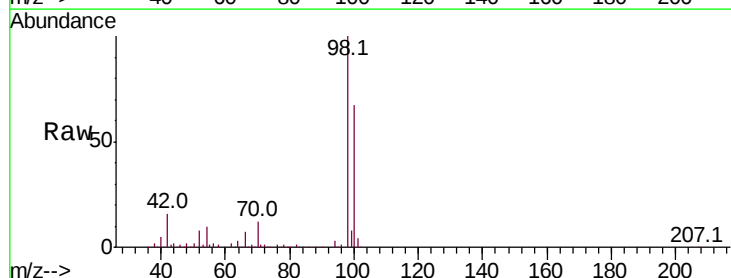
Acq: 31 Jul 2019 1:05

Tgt Ion: 98 Resp: 1412575

Ion Ratio Lower Upper

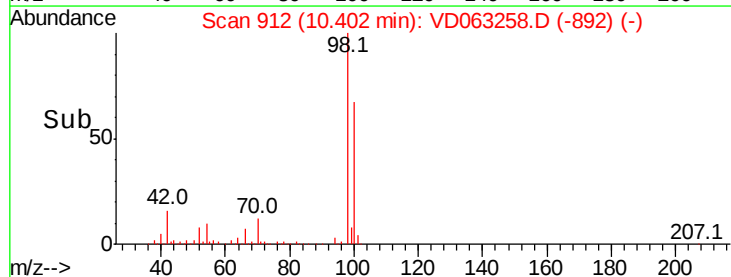
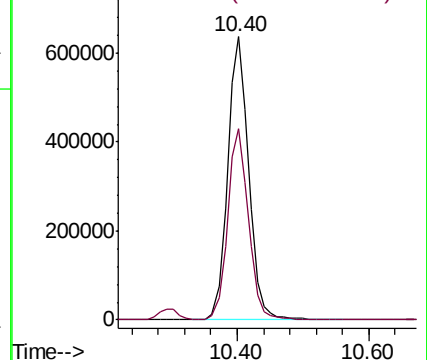
98 100

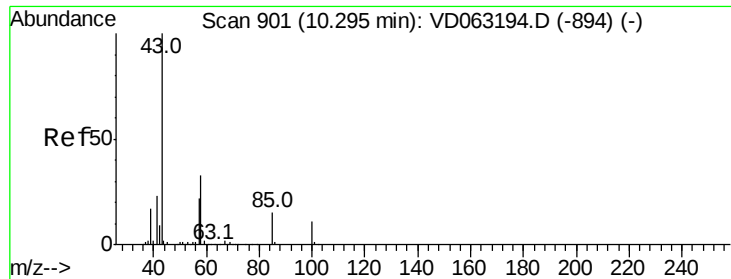
100 67.4 53.2 79.8



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: 111.065 ug/l

RT: 10.29 min Scan# 901

Delta R.T. -0.00 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

Instrument :

MSVOA_D

ClientSampleID :

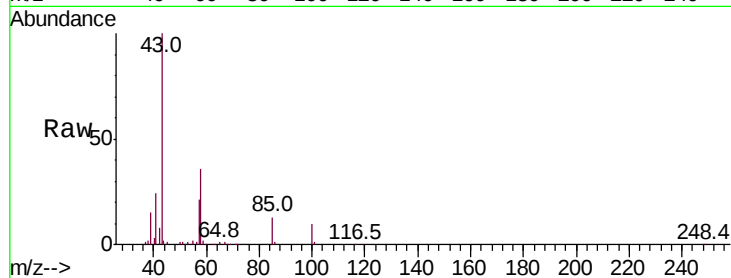
VD0730SBS02

Tot Ion: 43 Resp: 538280

Ion Ratio Lower Upper

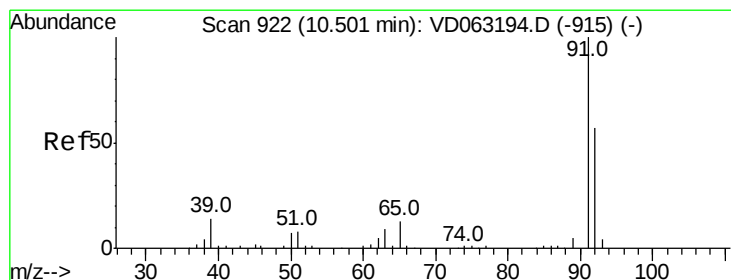
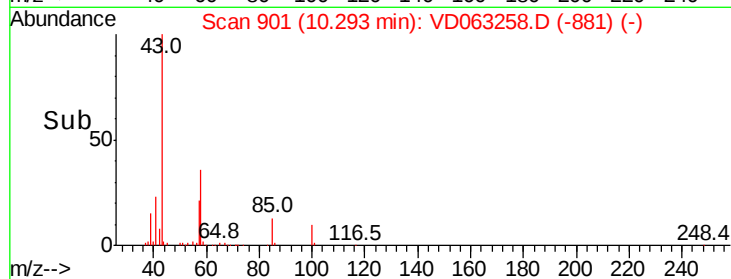
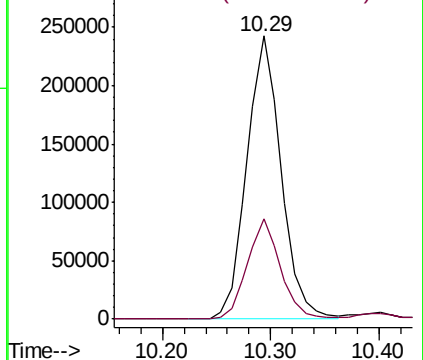
43 100

58 35.5 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: 20.474 ug/l

RT: 10.50 min Scan# 922

Delta R.T. -0.00 min

Lab File: VD063258.D

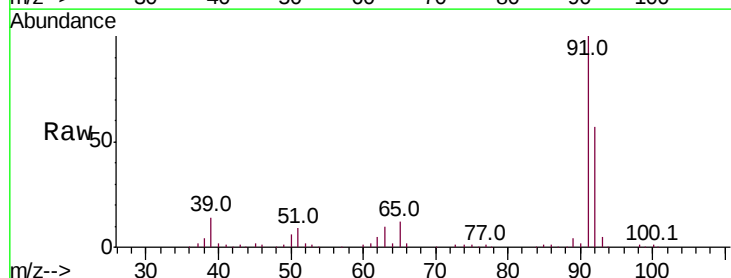
Acq: 31 Jul 2019 1:05

Tgt Ion: 92 Resp: 354399

Ion Ratio Lower Upper

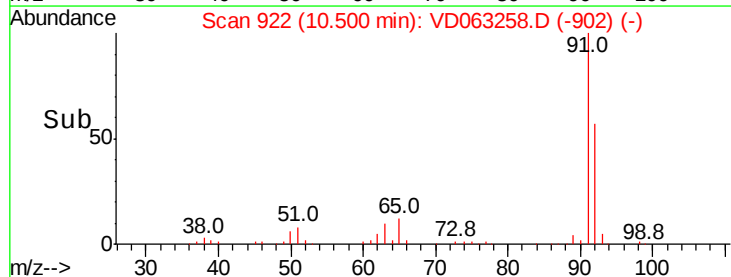
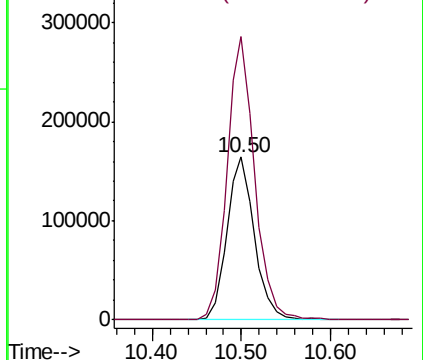
92 100

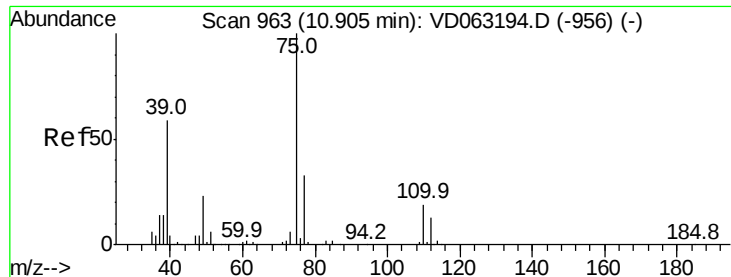
91 174.1 140.8 211.2



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: 20.301 ug/l

RT: 10.90 min Scan# 963

Delta R.T. -0.00 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

Instrument :

MSVOA_D

ClientSampleId :

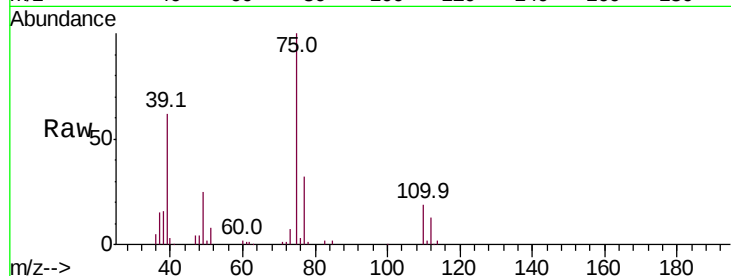
VD0730SBS02

Tot Ion: 75 Resp: 245399

Ion Ratio Lower Upper

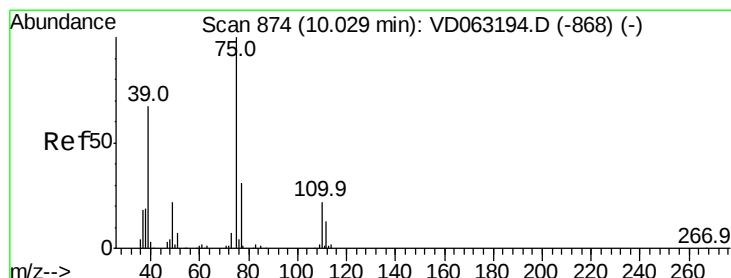
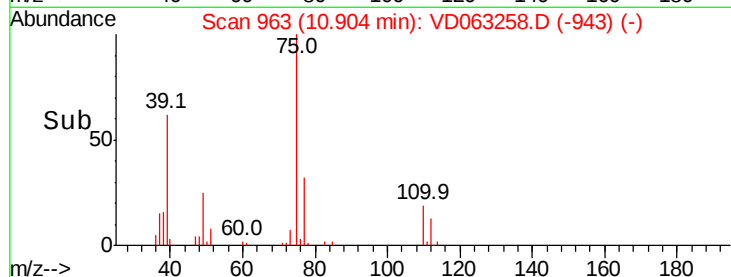
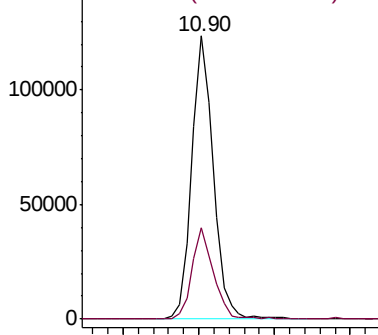
75 100

77 32.5 26.6 40.0



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#54

cis-1,3-Dichloropropene

Concen: 20.189 ug/l

RT: 10.03 min Scan# 874

Delta R.T. -0.00 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

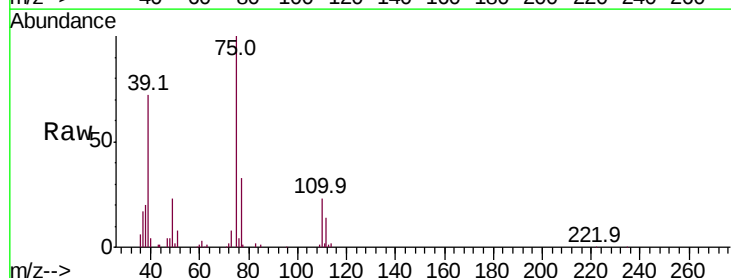
Tgt Ion: 75 Resp: 256475

Ion Ratio Lower Upper

75 100

77 32.9 24.9 37.3

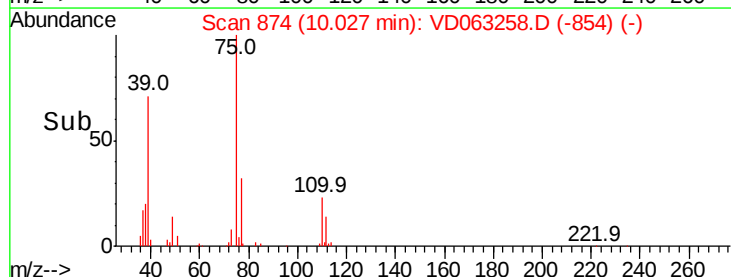
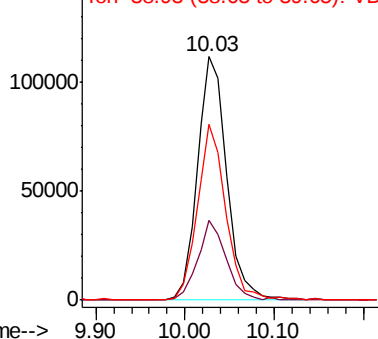
39 72.3 53.9 80.9

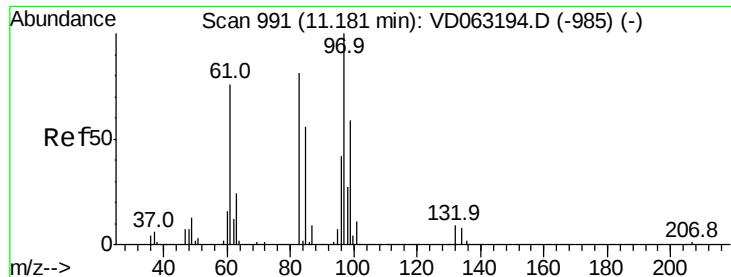


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

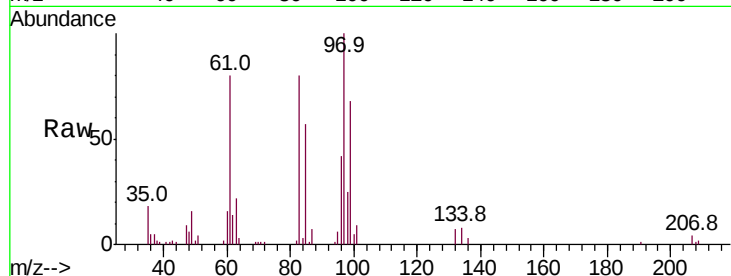




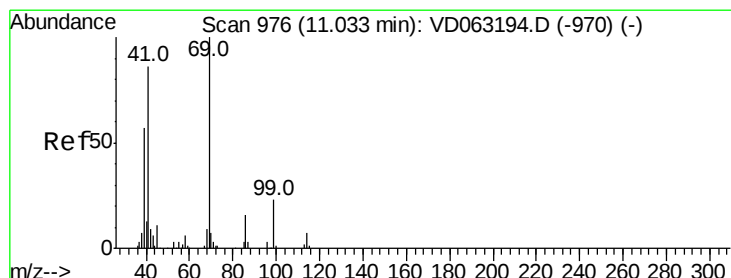
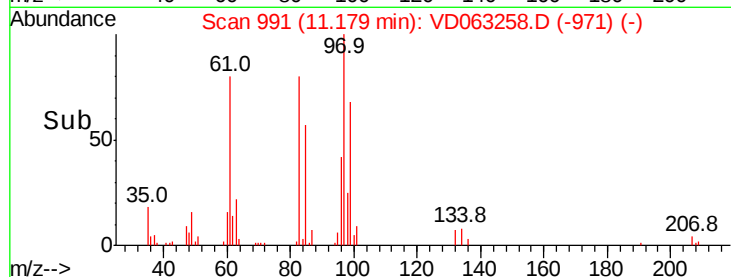
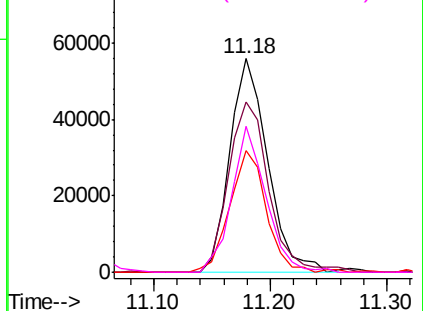
#55
 1,1,2-Trichloroethane
 Concen: 21.521 ug/l
 RT: 11.18 min Scan# 991
 Delta R.T. -0.00 min
 Lab File: VD063258.D
 Acq: 31 Jul 2019 1:05

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0730SBSD02

Tot Ion:	97	Resp:	125815
Ion	Ratio	Lower	Upper
97	100		
83	79.9	64.8	97.2
85	56.9	44.9	67.3
99	68.1	47.2	70.8

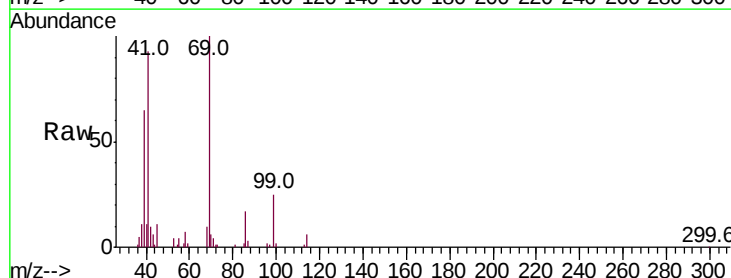


Abundance Ion 96.85 (96.55 to 97.55): VDC
 Ion 82.95 (82.65 to 83.65): VDC
 Ion 84.95 (84.65 to 85.65): VDC
 Ion 98.85 (98.55 to 99.55): VDC

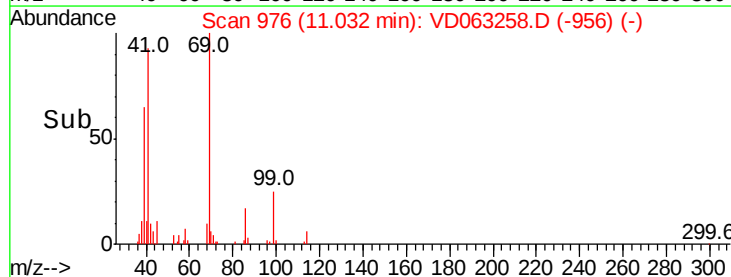
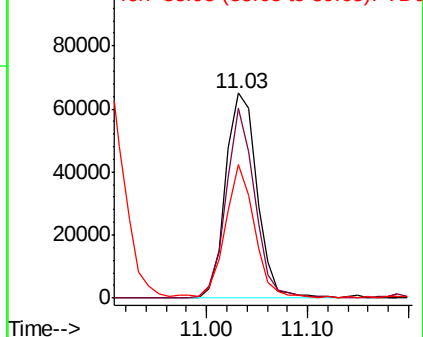


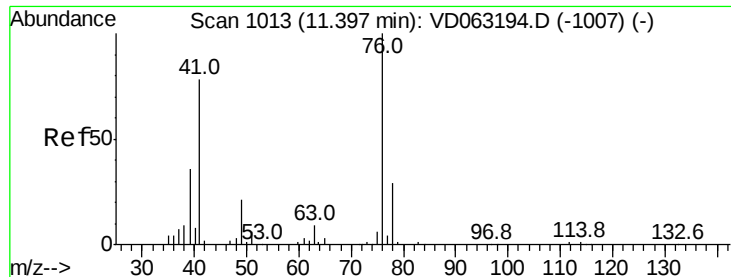
#56
 Ethyl methacrylate
 Concen: 21.947 ug/l
 RT: 11.03 min Scan# 976
 Delta R.T. -0.00 min
 Lab File: VD063258.D
 Acq: 31 Jul 2019 1:05

Tgt Ion:	69	Resp:	140494
Ion	Ratio	Lower	Upper
69	100		
41	92.6	68.8	103.2
39	65.3	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: 23.128 ug/l

RT: 11.40 min Scan# 1013

Delta R.T. -0.00 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

Instrument :

MSVOA_D

ClientSampleId :

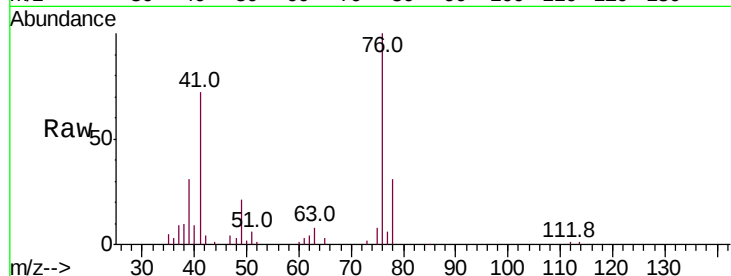
VD0730SBSD02

Tot Ion: 76 Resp: 213026

Ion Ratio Lower Upper

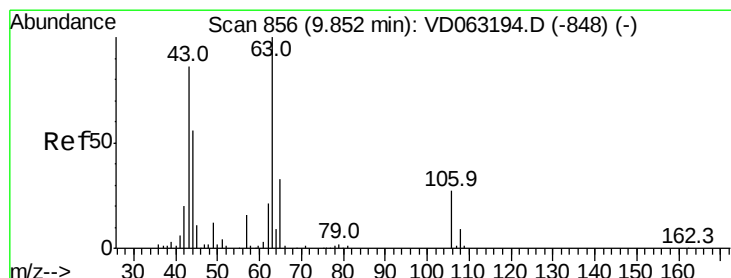
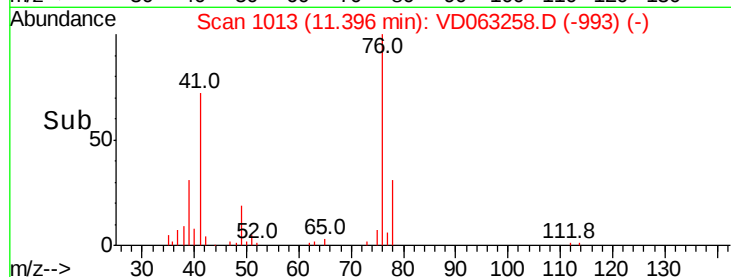
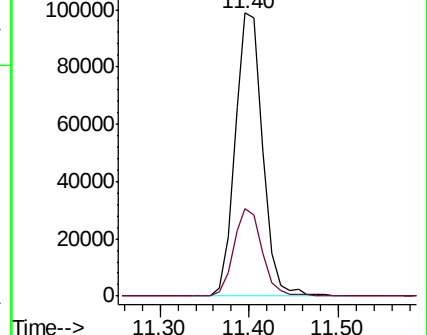
76 100

78 30.8 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: 114.456 ug/l

RT: 9.85 min Scan# 856

Delta R.T. -0.00 min

Lab File: VD063258.D

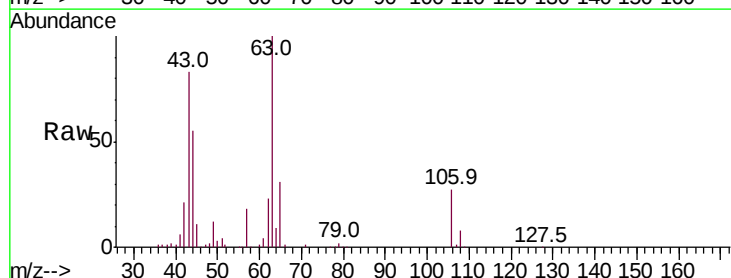
Acq: 31 Jul 2019 1:05

Tgt Ion: 63 Resp: 381253

Ion Ratio Lower Upper

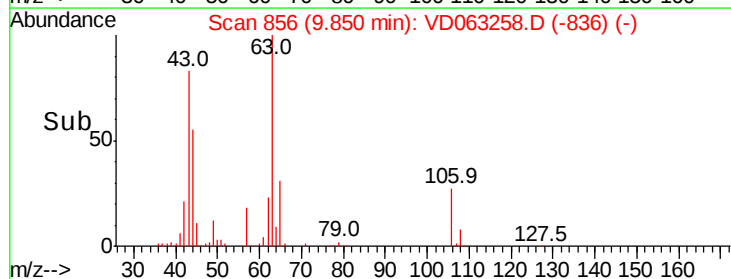
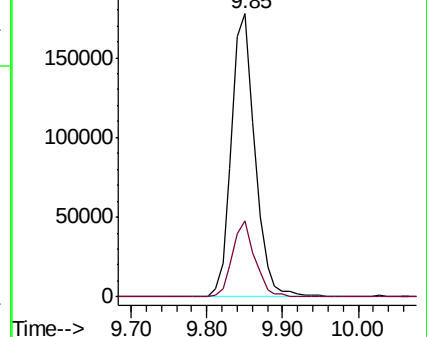
63 100

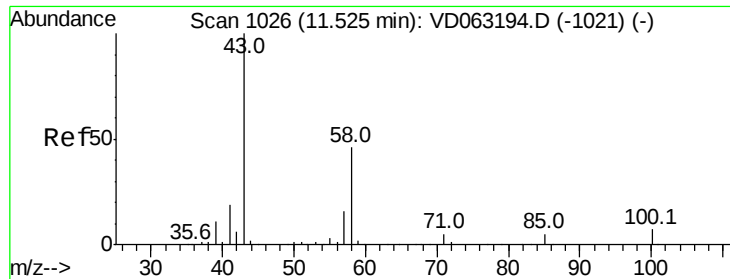
106 27.0 22.0 33.0



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

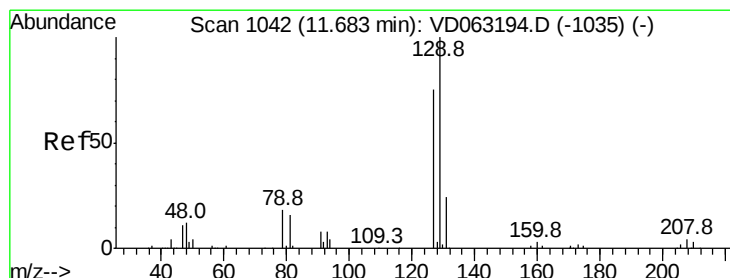
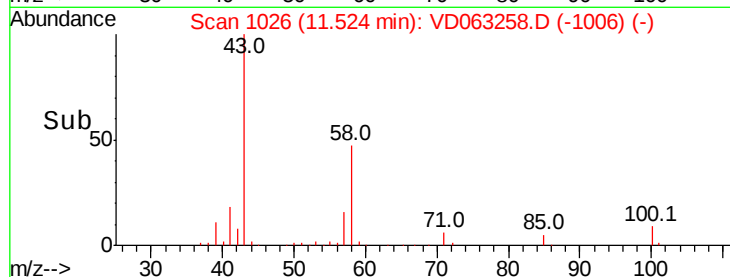
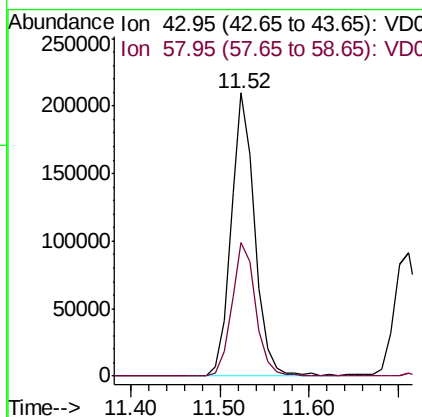
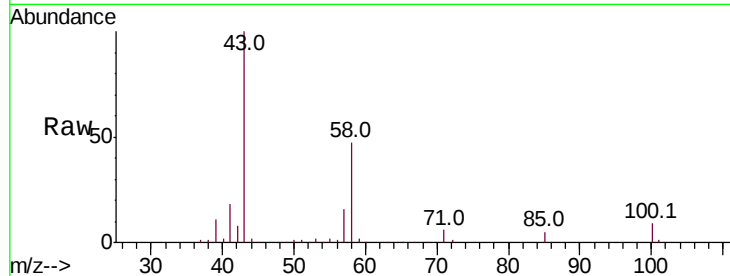




#59
2-Hexanone
Concen: 111.543 ug/l
RT: 11.52 min Scan# 1026
Delta R.T. -0.00 min
Lab File: VD063258.D
Acq: 31 Jul 2019 1:05

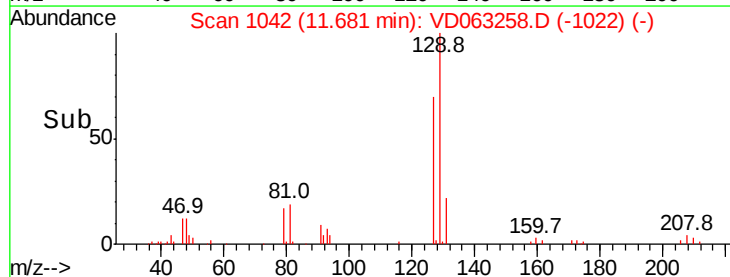
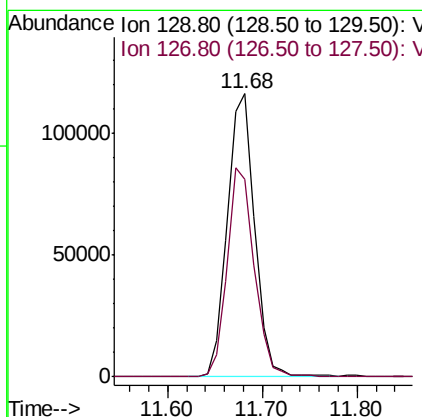
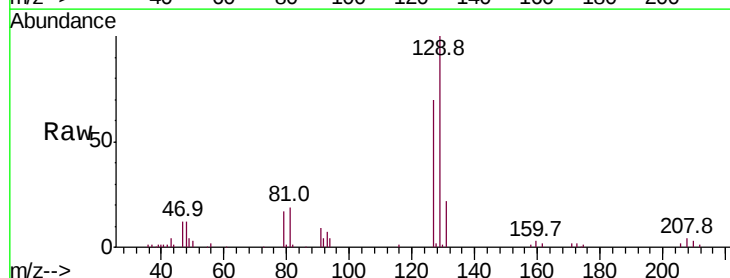
Instrument :
MSVOA_D
ClientSampleId :
VD0730SBSD02

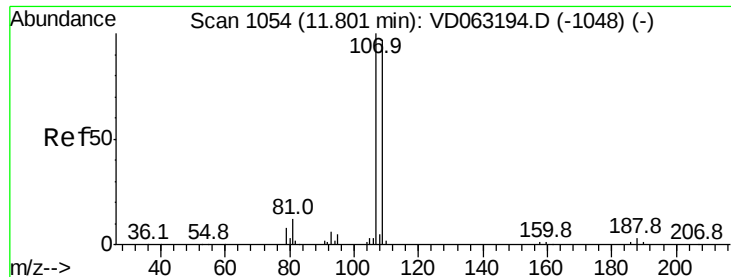
Tot Ion: 43 Resp: 389578
Ion Ratio Lower Upper
43 100
58 47.0 22.9 68.5



#60
Dibromochloromethane
Concen: 21.100 ug/l
RT: 11.68 min Scan# 1042
Delta R.T. -0.00 min
Lab File: VD063258.D
Acq: 31 Jul 2019 1:05

Tgt Ion: 129 Resp: 232870
Ion Ratio Lower Upper
129 100
127 69.7 37.6 112.8





#61

1,2-Dibromoethane

Concen: 22.570 ug/l

RT: 11.80 min Scan# 1054

Delta R.T. -0.00 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

Instrument :

MSVOA_D

ClientSampleId :

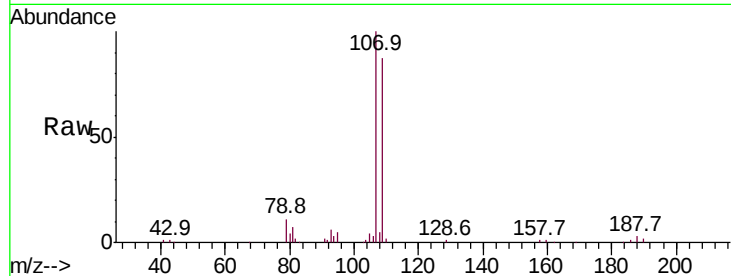
VD0730SBSD02

Tot Ion:107 Resp: 162811

Ion Ratio Lower Upper

107 100

109 86.6 77.5 116.3



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V

11.80

100000

80000

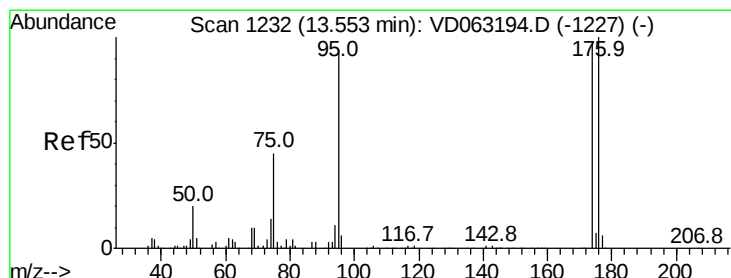
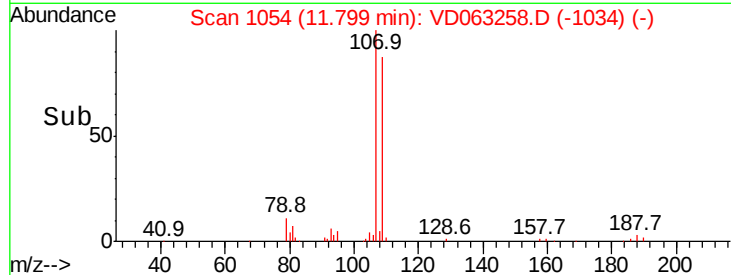
60000

40000

20000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 50.697 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

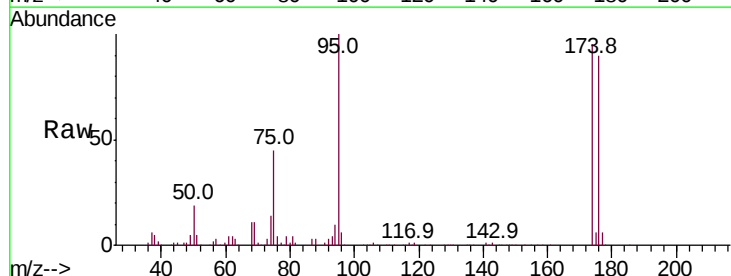
Tgt Ion: 95 Resp: 600649

Ion Ratio Lower Upper

95 100

174 94.6 0.0 205.4

176 90.2 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

13.55

600000

500000

400000

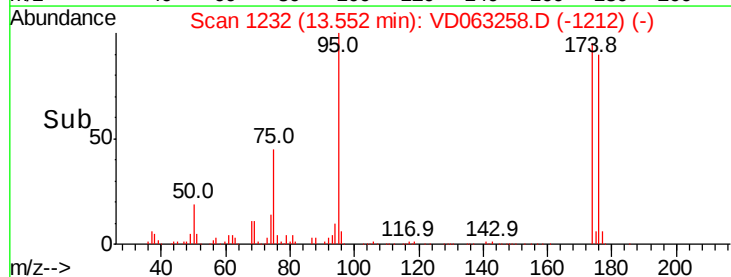
300000

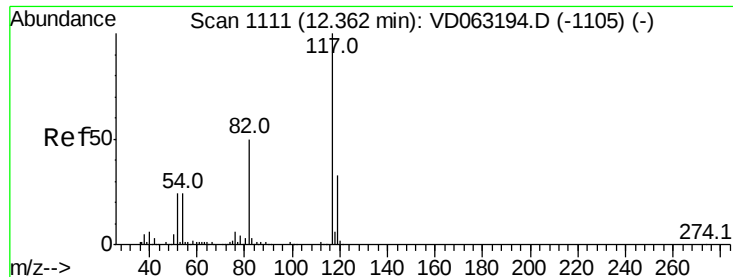
200000

100000

0

Time-->

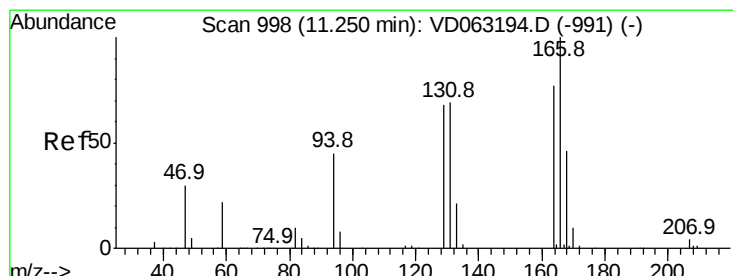
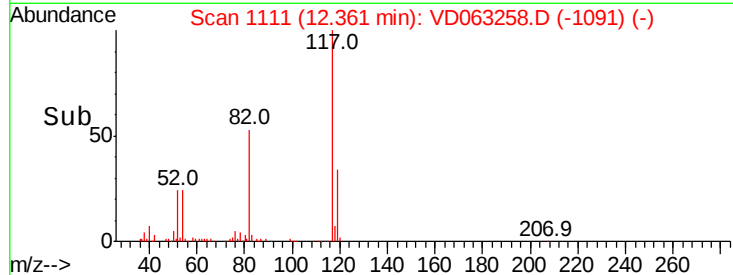
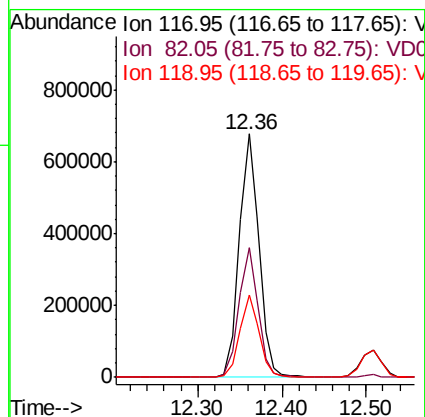
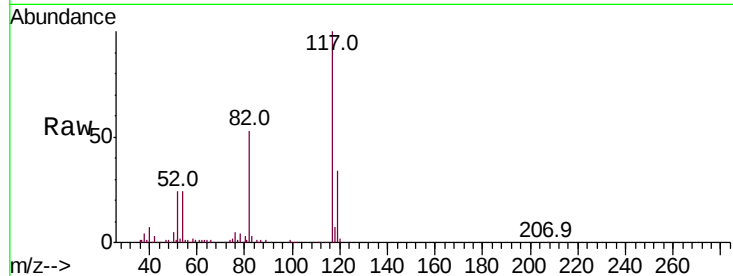




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.00 min
Lab File: VD063258.D
Acq: 31 Jul 2019 1:05

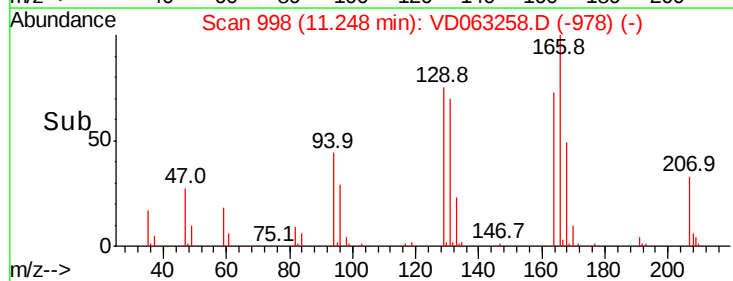
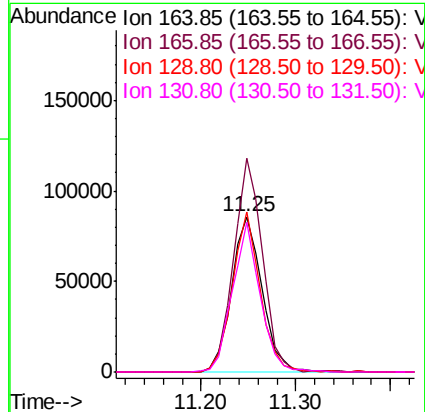
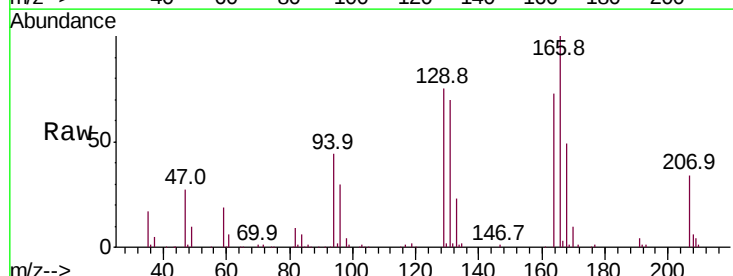
Instrument :
MSVOA_D
ClientSampleId :
VD0730SBSD02

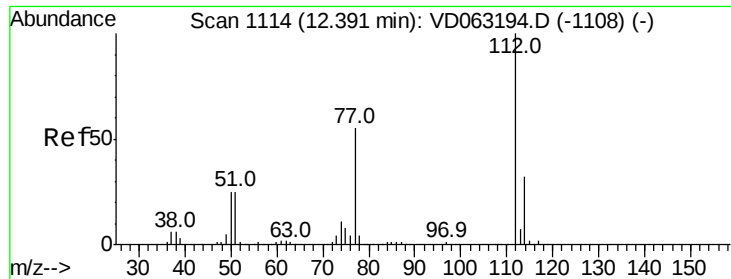
Tot Ion:117 Resp: 1104762
Ion Ratio Lower Upper
117 100
82 53.3 40.1 60.1
119 33.8 26.5 39.7



#64
Tetrachloroethene
Concen: 21.679 ug/l
RT: 11.25 min Scan# 998
Delta R.T. -0.00 min
Lab File: VD063258.D
Acq: 31 Jul 2019 1:05

Tgt Ion:164 Resp: 190799
Ion Ratio Lower Upper
164 100
166 137.7 104.3 156.5
129 103.0 70.9 106.3
131 96.5 71.6 107.4





#65

Chlorobenzene

Concen: 21.375 ug/l

RT: 12.39 min Scan# 1114

Delta R.T. -0.00 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

Instrument :

MSVOA_D

ClientSampleId :

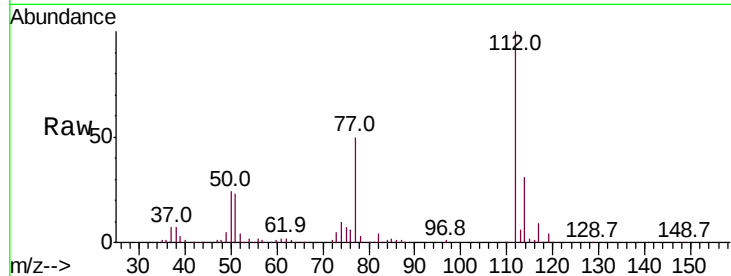
VD0730SBSD02

Tot Ion:112 Resp: 454210

Ion Ratio Lower Upper

112 100

114 31.0 25.8 38.8



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 114.00 (113.70 to 114.70): V

12.39

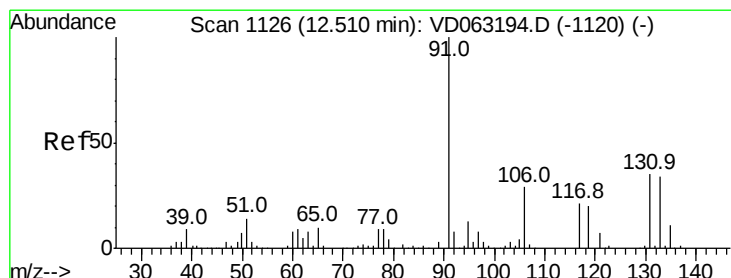
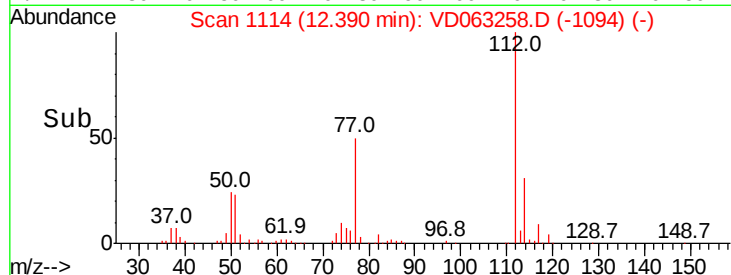
300000

200000

100000

0

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 22.692 ug/l

RT: 12.51 min Scan# 1126

Delta R.T. -0.00 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

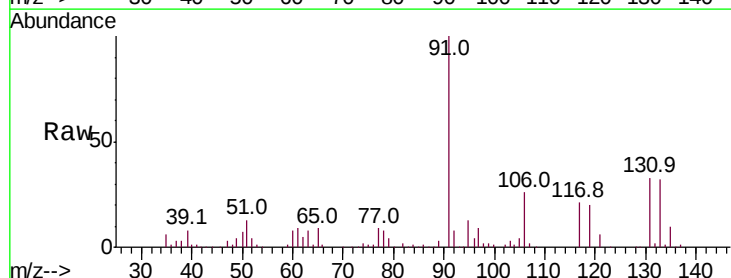
Tgt Ion:131 Resp: 212405

Ion Ratio Lower Upper

131 100

133 99.2 48.4 145.2

119 61.9 29.1 87.3



Abundance Ion 130.90 (130.60 to 131.60): V

Ion 132.90 (132.60 to 133.60): V

Ion 118.85 (118.55 to 119.55): V

12.51

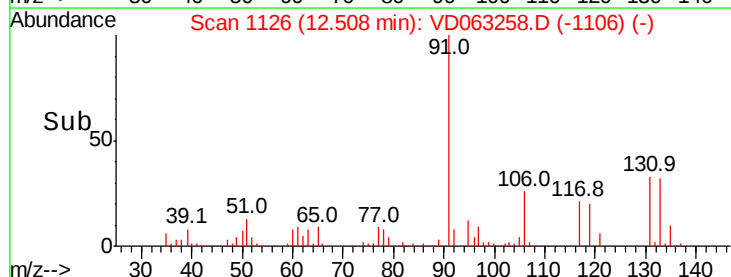
150000

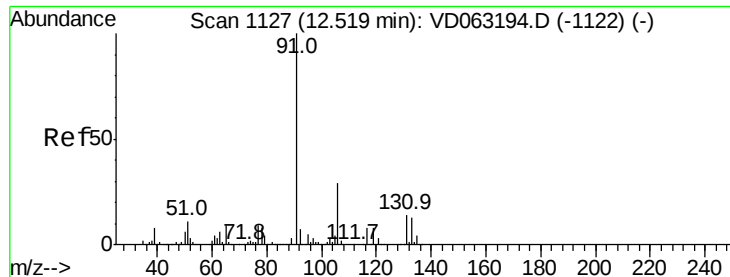
100000

50000

0

Time-->





#67

Ethyl Benzene

Concen: 21.194 ug/l

RT: 12.52 min Scan# 1127

Delta R.T. -0.00 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

Instrument :

MSVOA_D

ClientSampleId :

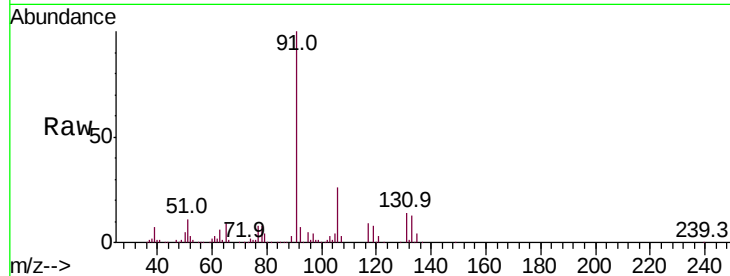
VD0730SBS02

Tot Ion: 91 Resp: 765052

Ion Ratio Lower Upper

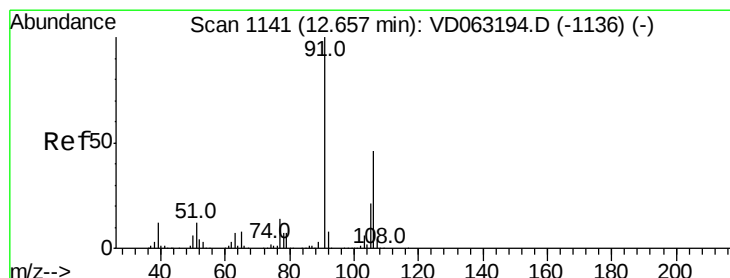
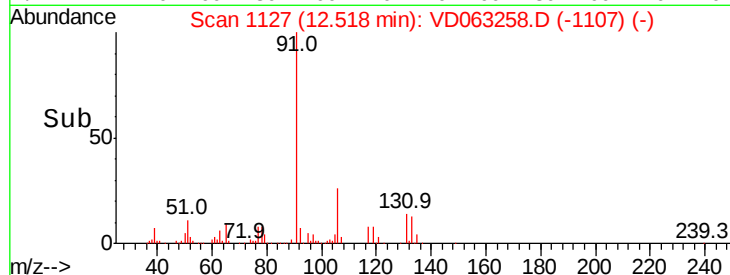
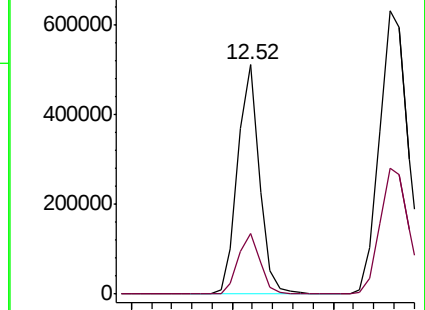
91 100

106 26.2 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: 41.607 ug/l

RT: 12.66 min Scan# 1141

Delta R.T. -0.00 min

Lab File: VD063258.D

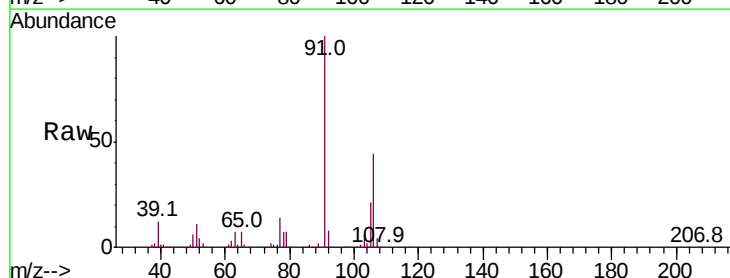
Acq: 31 Jul 2019 1:05

Tgt Ion: 106 Resp: 550811

Ion Ratio Lower Upper

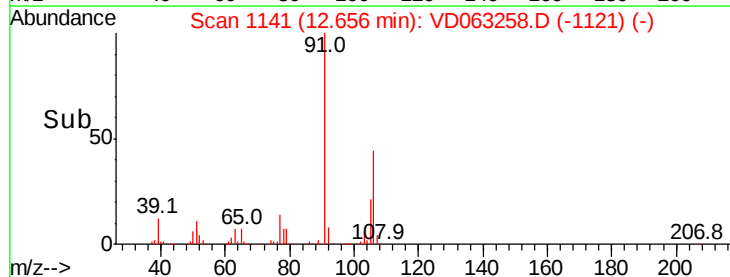
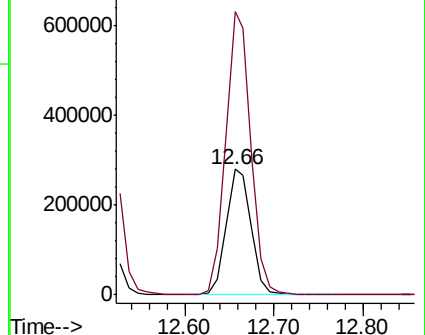
106 100

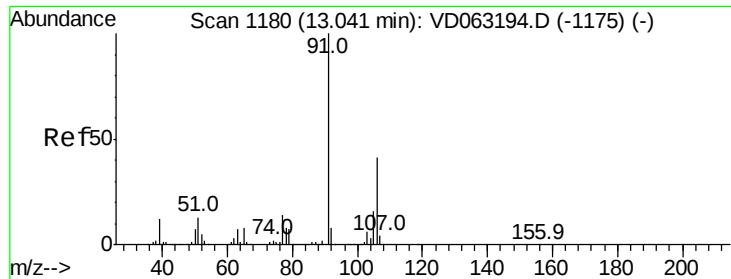
91 225.5 172.6 259.0



Abundance Ion 106.05 (105.75 to 106.75): V

Ion 91.00 (90.70 to 91.70): V

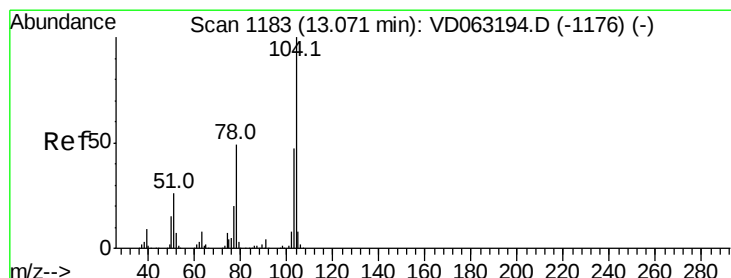
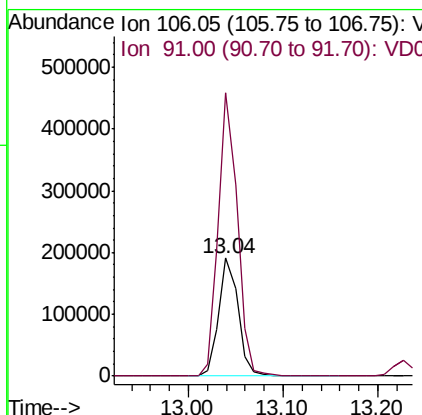
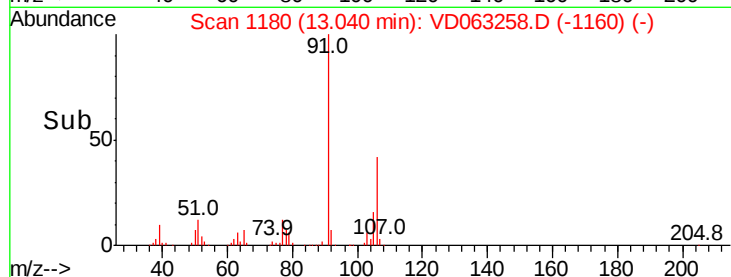
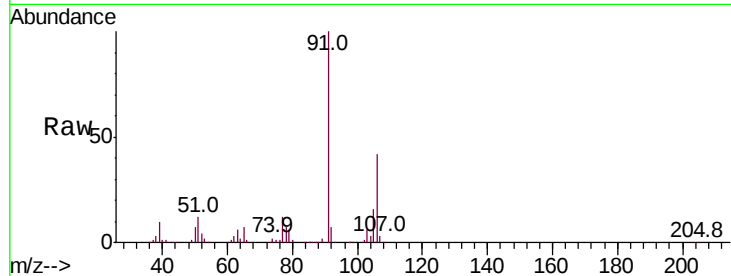




#69
o-Xylene
Concen: 22.452 ug/l
RT: 13.04 min Scan# 1180
Delta R.T. -0.00 min
Lab File: VD063258.D
Acq: 31 Jul 2019 1:05

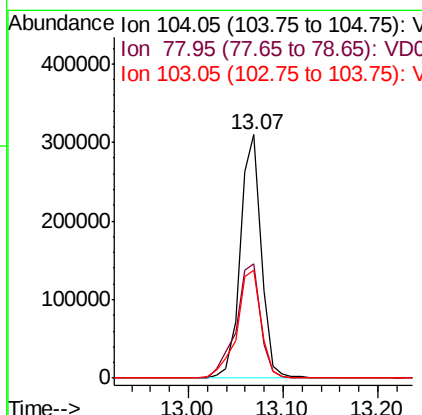
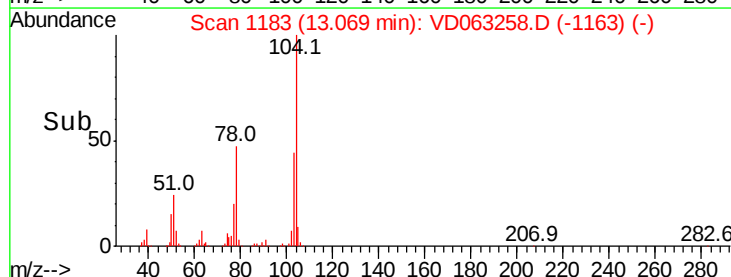
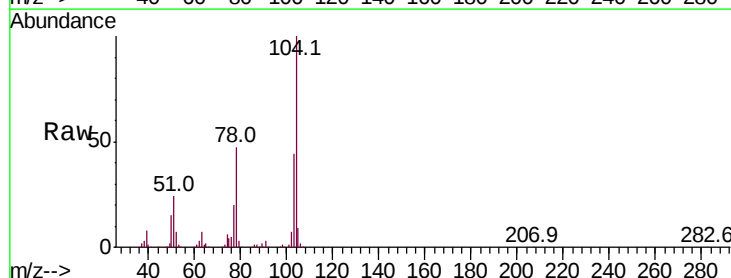
Instrument :
MSVOA_D
ClientSampleId :
VD0730SBSD02

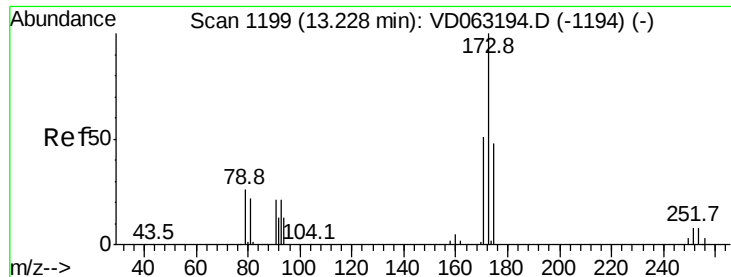
Tot Ion:106 Resp: 272943
Ion Ratio Lower Upper
106 100
91 239.6 121.3 363.9



#70
Styrene
Concen: 21.953 ug/l
RT: 13.07 min Scan# 1183
Delta R.T. -0.00 min
Lab File: VD063258.D
Acq: 31 Jul 2019 1:05

Tgt Ion:104 Resp: 473286
Ion Ratio Lower Upper
104 100
78 46.9 39.4 59.0
103 44.4 37.4 56.2

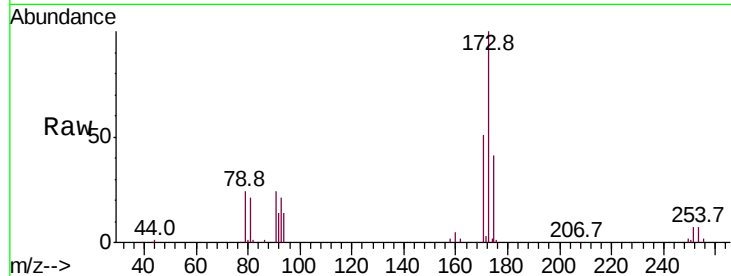




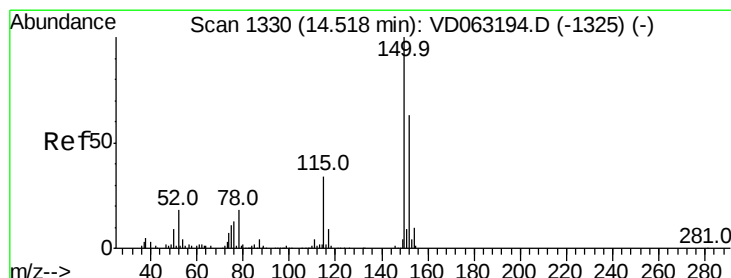
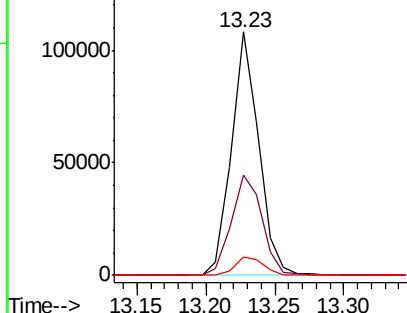
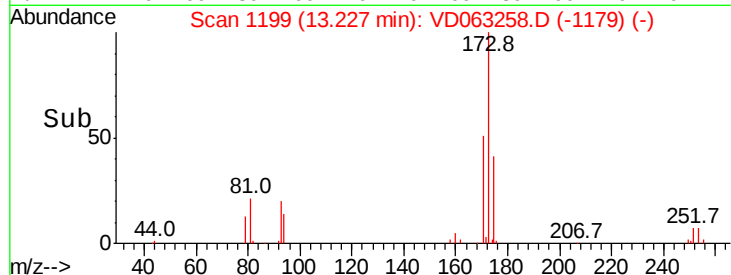
#71
Bromoform
Concen: 21.881 ug/l
RT: 13.23 min Scan# 1199
Delta R.T. -0.00 min
Lab File: VD063258.D
Acq: 31 Jul 2019 1:05

Instrument :
MSVOA_D
ClientSampleId :
VD0730SBSD02

Tot Ion:173 Resp: 148941
Ion Ratio Lower Upper
173 100
175 41.4 23.8 71.5
254 7.3 6.6 10.0

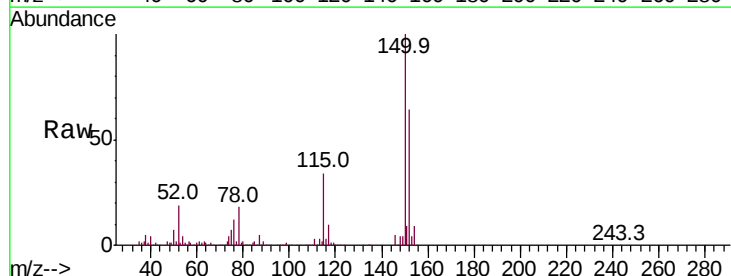


Abundance Ion 172.80 (172.50 to 173.50): V
Ion 174.80 (174.50 to 175.50): V
Ion 253.70 (253.40 to 254.40): V

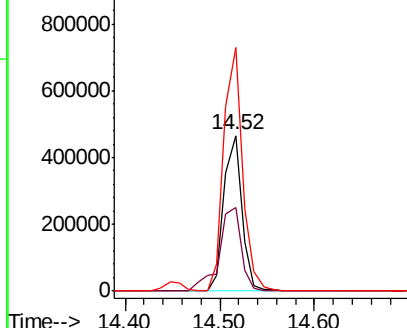
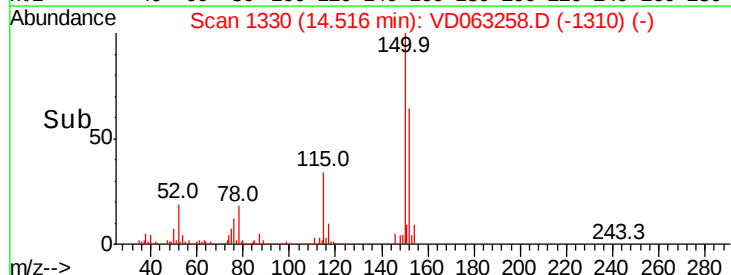


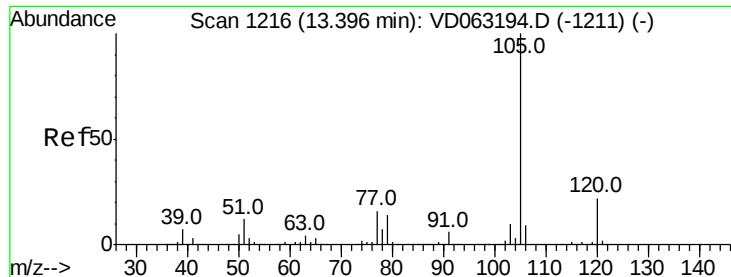
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VD063258.D
Acq: 31 Jul 2019 1:05

Tgt Ion:152 Resp: 621182
Ion Ratio Lower Upper
152 100
115 53.7 27.5 82.4
150 156.3 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: 19.711 ug/l

RT: 13.39 min Scan# 1216

Delta R.T. -0.00 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

Instrument :

MSVOA_D

ClientSampleId :

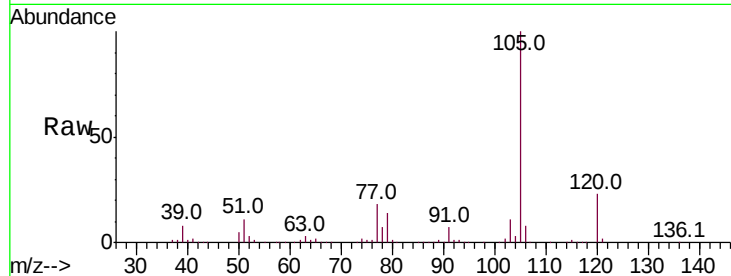
VD0730SBS02

Tot Ion:105 Resp: 768459

Ion Ratio Lower Upper

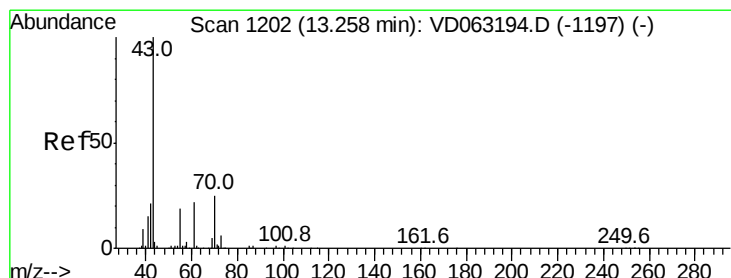
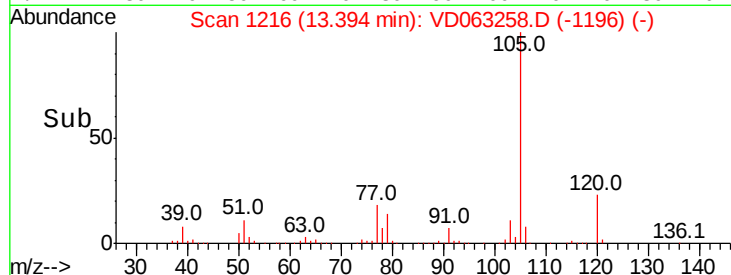
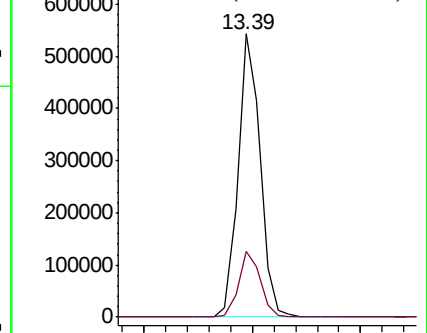
105 100

120 23.3 11.1 33.3



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 21.641 ug/l

RT: 13.26 min Scan# 1202

Delta R.T. -0.00 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

Tgt Ion: 43 Resp: 223046

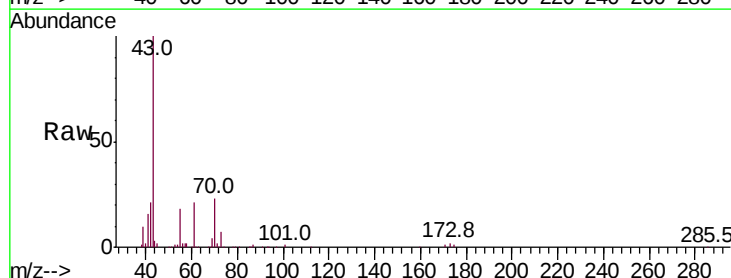
Ion Ratio Lower Upper

43 100

70 23.4 20.2 30.4

55 18.1 14.9 22.3

61 21.0 17.9 26.9

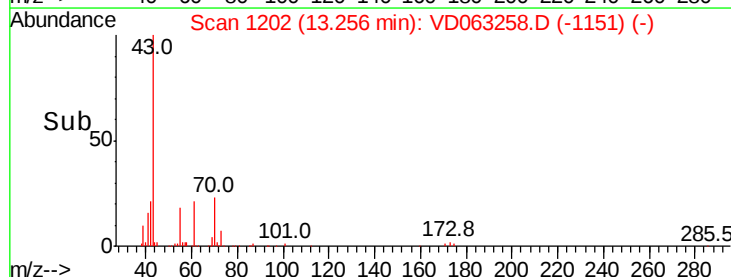
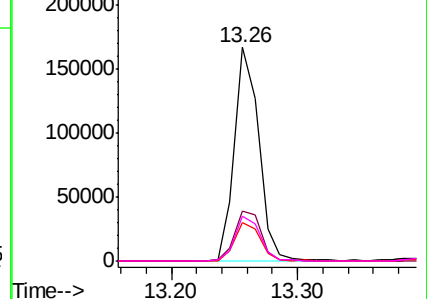


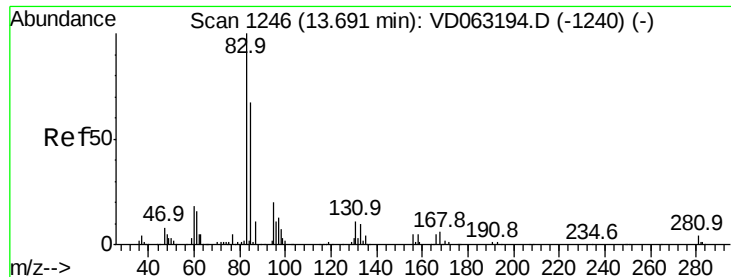
Abundance Ion 42.95 (42.65 to 43.65): V

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





#75

1,1,2,2-Tetrachloroethane

Concen: 22.811 ug/l

RT: 13.69 min Scan# 1246

Delta R.T. -0.00 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

Instrument :

MSVOA_D

ClientSampleId :

VD0730SBSD02

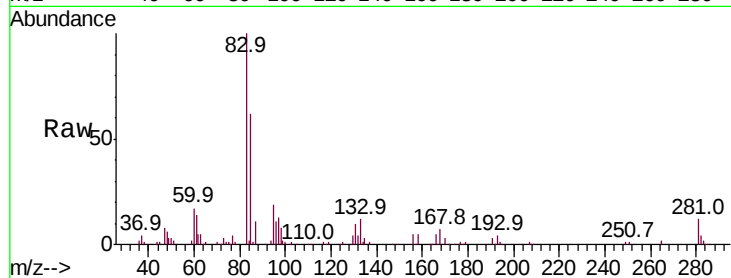
Tot Ion: 83 Resp: 151069

Ion Ratio Lower Upper

83 100

131 10.0 5.5 16.7

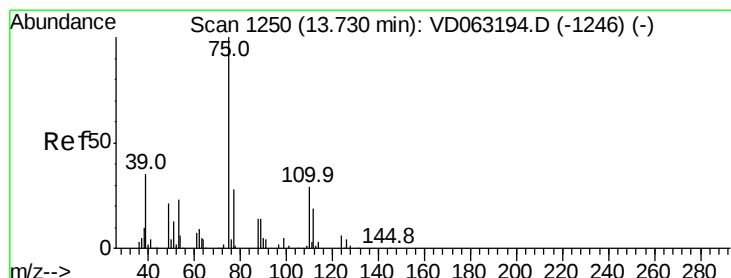
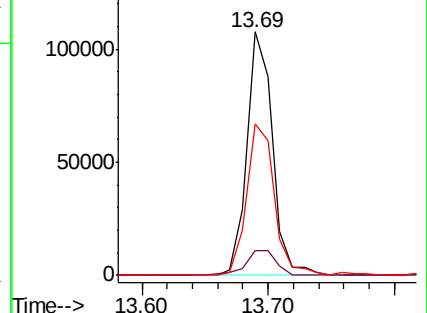
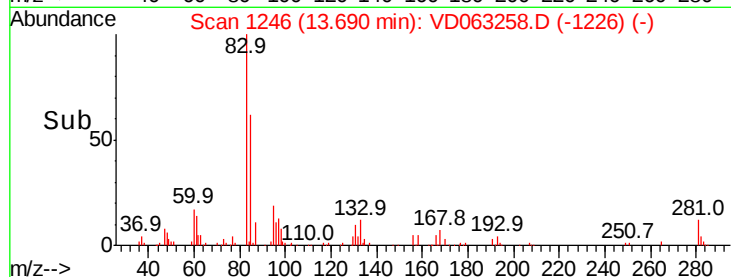
85 62.3 33.7 101.1



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: 21.223 ug/l

RT: 13.73 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VD063258.D

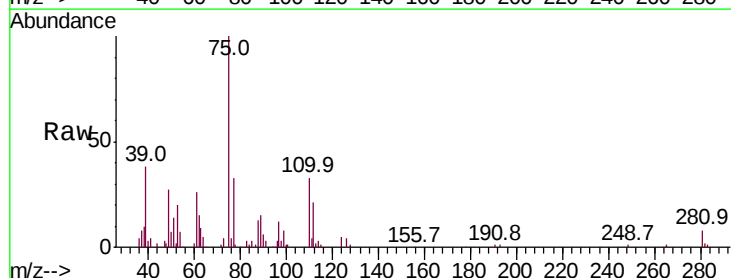
Acq: 31 Jul 2019 1:05

Tgt Ion: 75 Resp: 158350

Ion Ratio Lower Upper

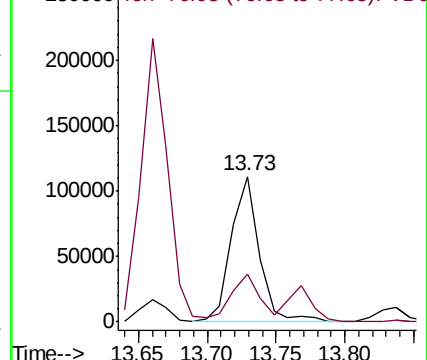
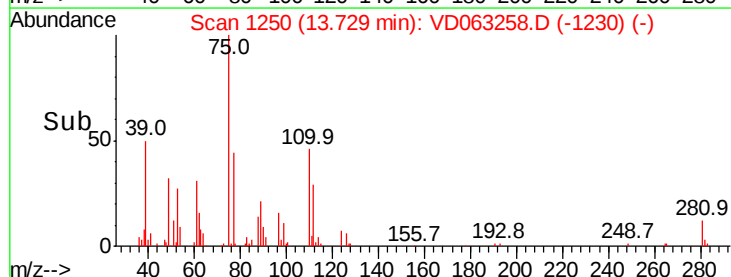
75 100

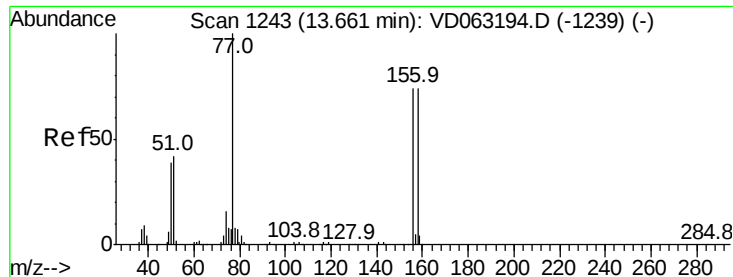
77 32.7 16.0 48.0



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 21.318 ug/l

RT: 13.66 min Scan# 1243

Delta R.T. -0.00 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

Instrument :

MSVOA_D

ClientSampleId :

VD0730SBS02

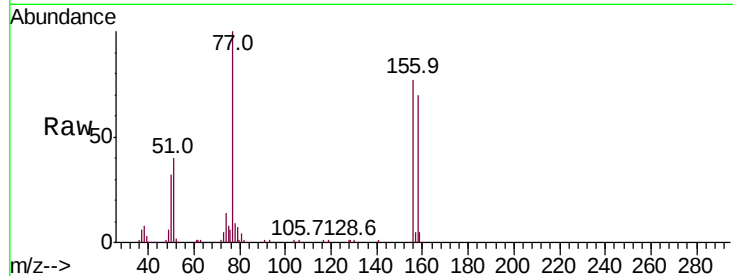
Tot Ion:156 Resp: 236763

Ion Ratio Lower Upper

156 100

77 130.4 67.6 202.8

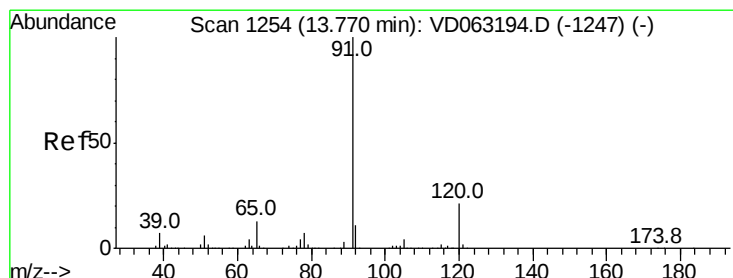
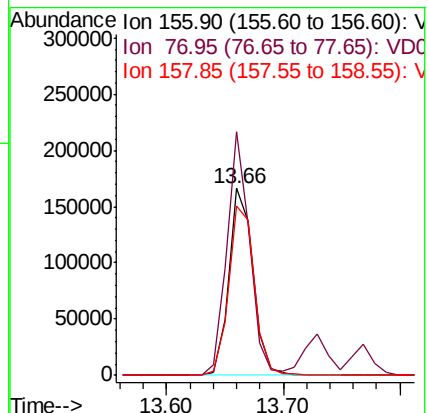
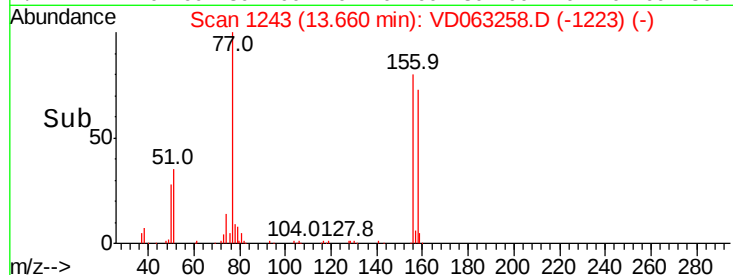
158 90.9 49.8 149.4



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 18.702 ug/l

RT: 13.77 min Scan# 1254

Delta R.T. -0.00 min

Lab File: VD063258.D

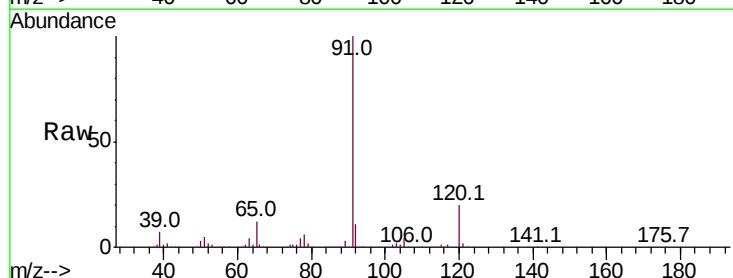
Acq: 31 Jul 2019 1:05

Tgt Ion: 91 Resp: 867681

Ion Ratio Lower Upper

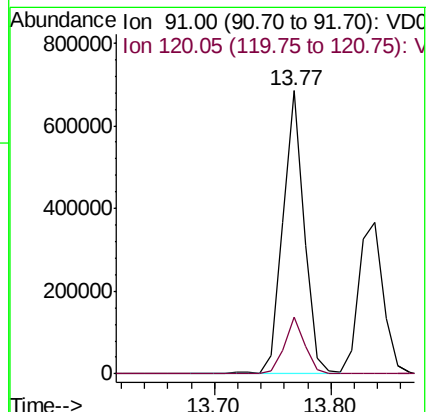
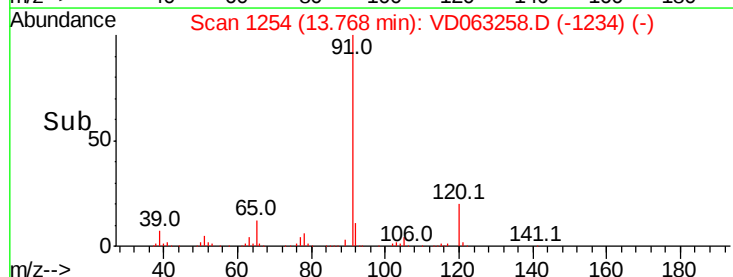
91 100

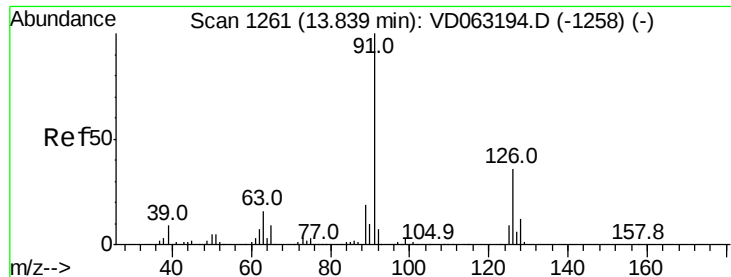
120 20.2 10.7 32.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 19.792 ug/l

RT: 13.84 min Scan# 1261

Delta R.T. -0.00 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

Instrument :

MSVOA_D

ClientSampleId :

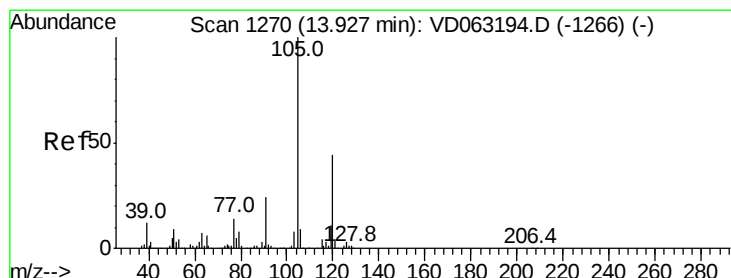
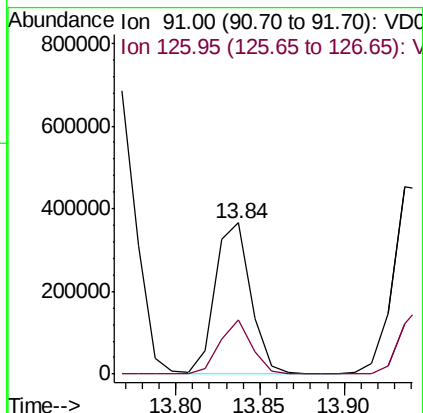
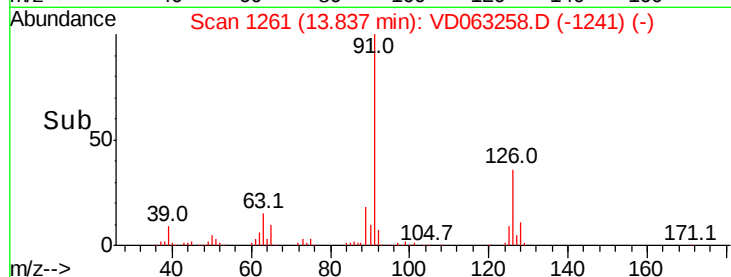
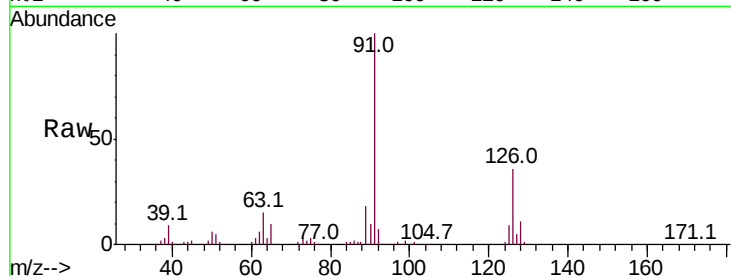
VD0730SBS02

Tot Ion: 91 Resp: 532084

Ion Ratio Lower Upper

91 100

126 35.7 17.8 53.5



#80

1,3,5-Trimethylbenzene

Concen: 22.151 ug/l

RT: 13.93 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VD063258.D

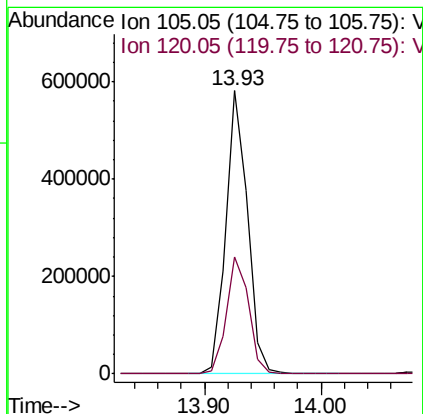
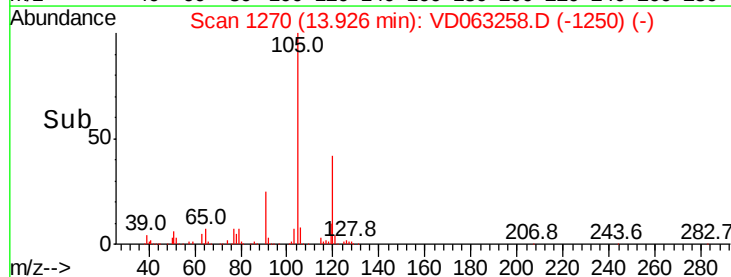
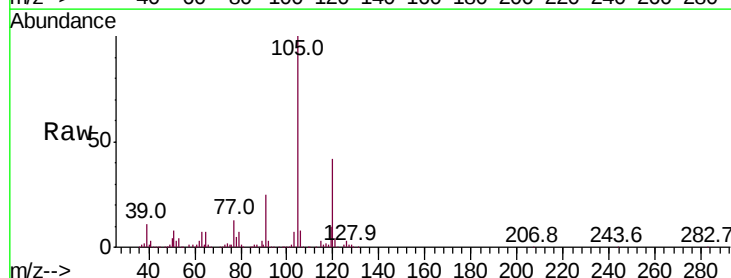
Acq: 31 Jul 2019 1:05

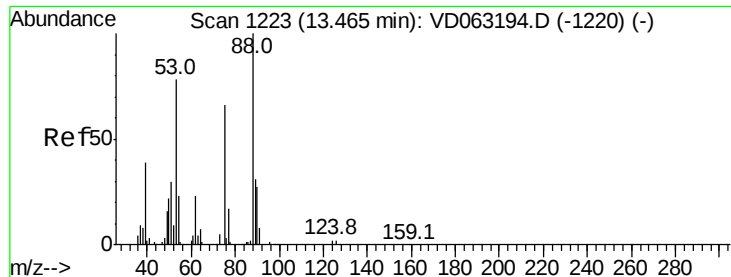
Tgt Ion: 105 Resp: 744866

Ion Ratio Lower Upper

105 100

120 41.6 22.1 66.1





#81

trans-1,4-Dichloro-2-butene

Concen: 17.591 ug/l

RT: 13.46 min Scan# 1223

Delta R.T. -0.00 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

Instrument :

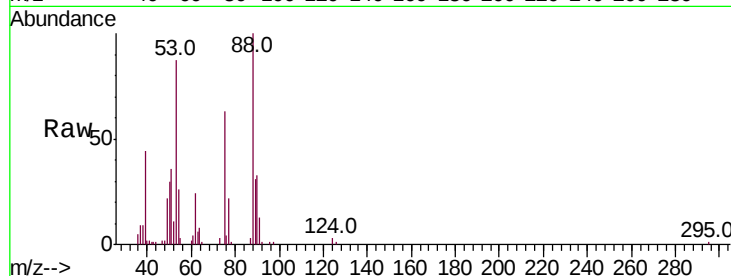
MSVOA_D

ClientSampleId :

VD0730SBS02

Tot Ion: 75 Resp: 36445

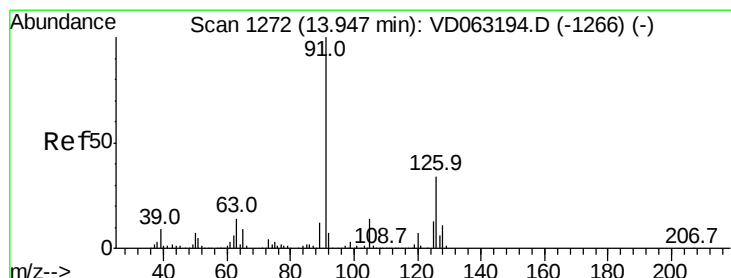
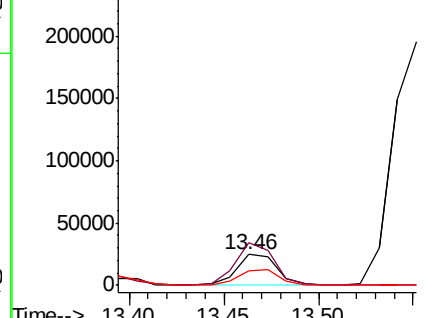
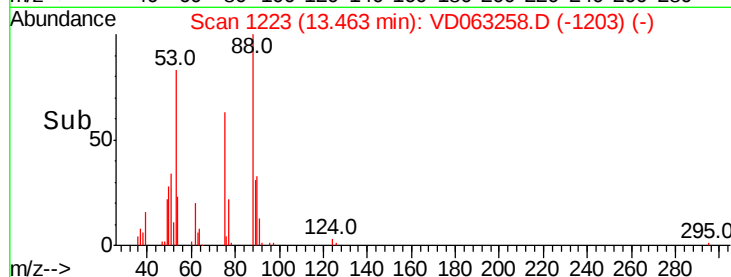
Ion	Ratio	Lower	Upper
75	100		
53	137.2	94.9	142.3
89	48.6	37.4	56.0



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



#82

4-Chlorotoluene

Concen: 22.478 ug/l

RT: 13.94 min Scan# 1271

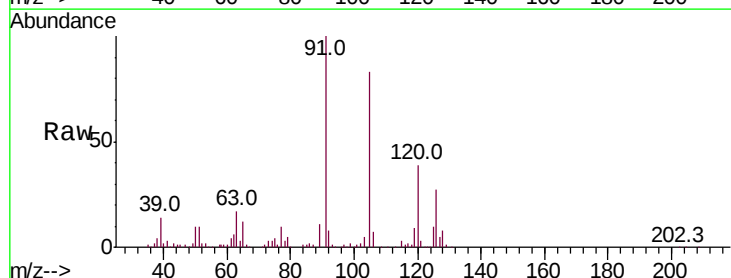
Delta R.T. -0.01 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

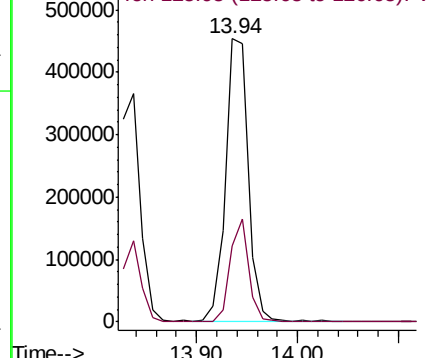
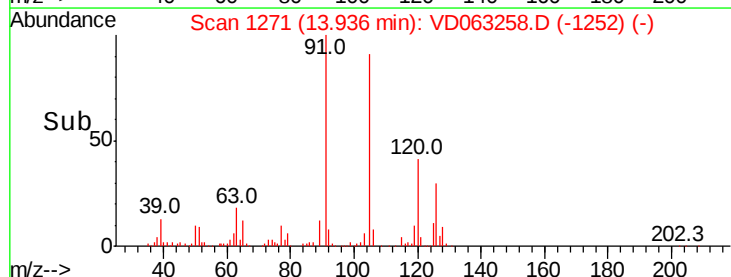
Tgt Ion: 91 Resp: 711149

Ion	Ratio	Lower	Upper
91	100		
126	26.9	17.1	51.2



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V





#83

tert-Butylbenzene

Concen: 19.968 ug/l

RT: 14.18 min Scan# 1296

Delta R.T. -0.00 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

Instrument :

MSVOA_D

ClientSampleId :

VD0730SBS02

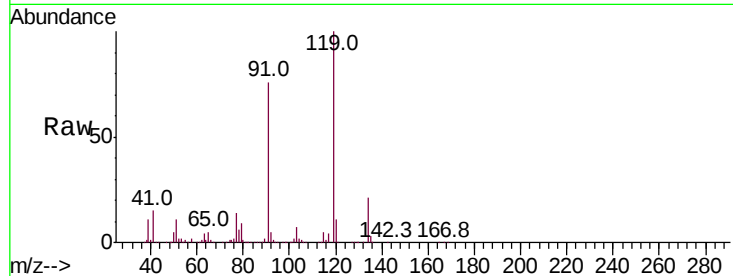
Tot Ion:119 Resp: 766670

Ion Ratio Lower Upper

119 100

91 76.1 39.1 117.5

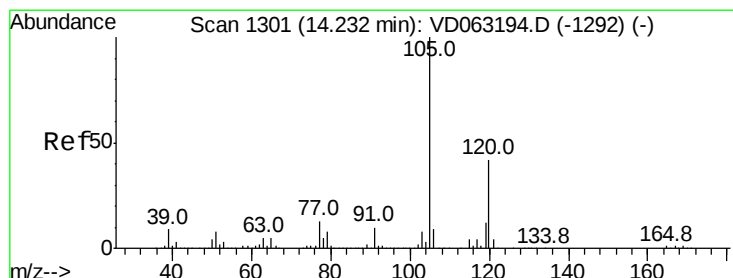
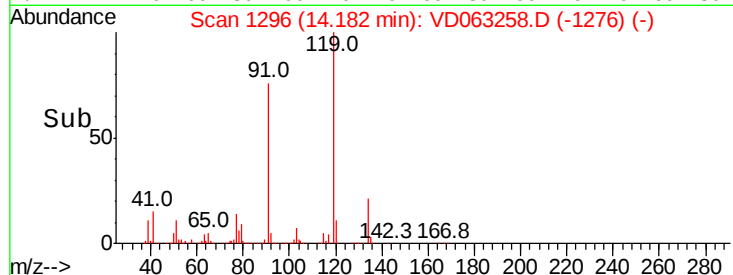
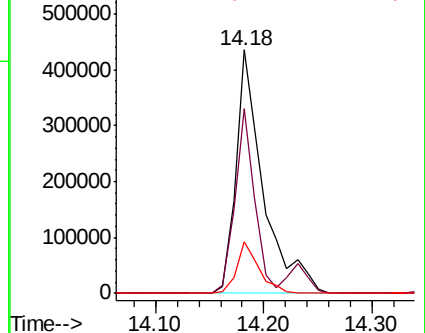
134 21.4 10.9 32.6



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



#84

1,2,4-Trimethylbenzene

Concen: 19.742 ug/l

RT: 14.23 min Scan# 1301

Delta R.T. -0.00 min

Lab File: VD063258.D

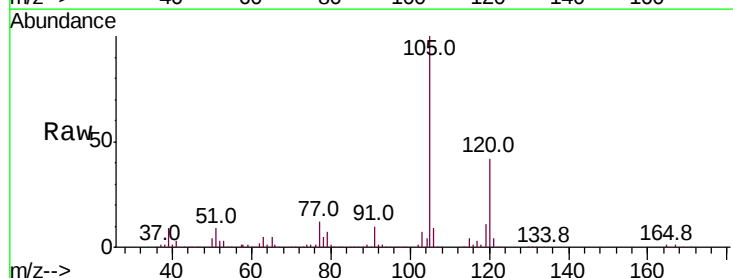
Acq: 31 Jul 2019 1:05

Tgt Ion:105 Resp: 686632

Ion Ratio Lower Upper

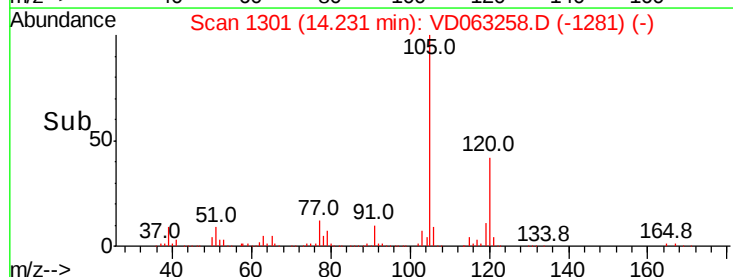
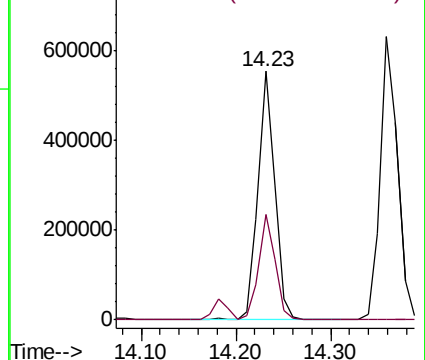
105 100

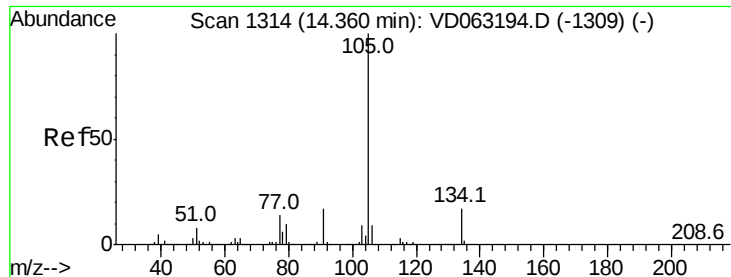
120 42.4 20.9 62.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#85

sec-Butylbenzene

Concen: 20.084 ug/l

RT: 14.36 min Scan# 1314

Delta R.T. -0.00 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

Instrument :

MSVOA_D

ClientSampleId :

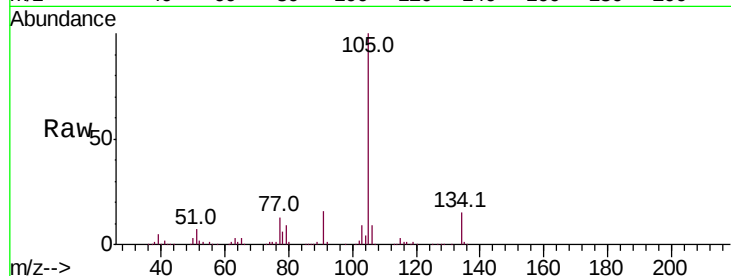
VD0730SBS02

Tot Ion:105 Resp: 812428

Ion Ratio Lower Upper

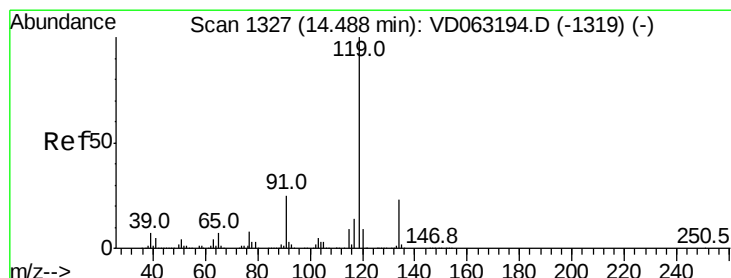
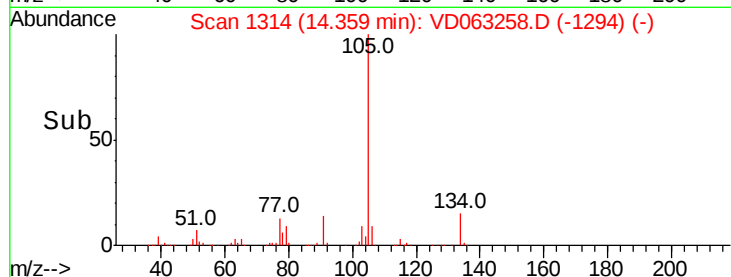
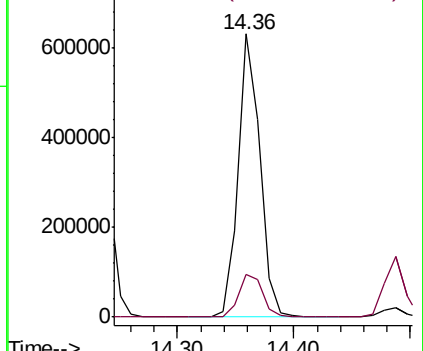
105 100

134 15.3 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: 19.274 ug/l

RT: 14.49 min Scan# 1327

Delta R.T. -0.00 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

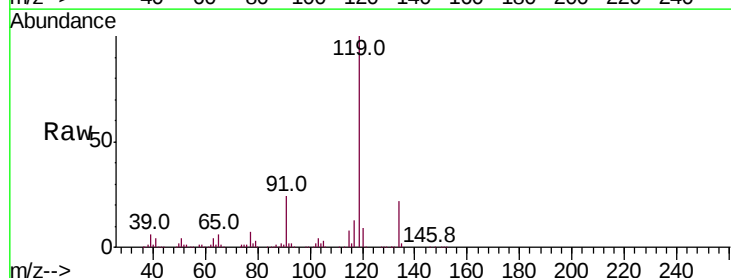
Tgt Ion:119 Resp: 744160

Ion Ratio Lower Upper

119 100

134 21.7 11.5 34.5

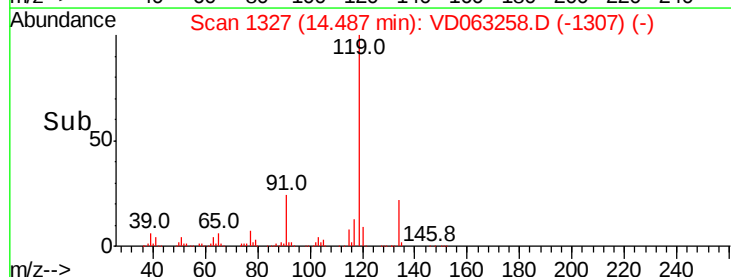
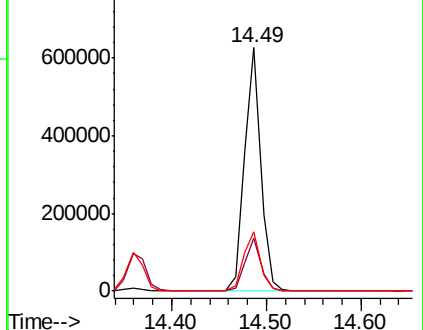
91 24.2 12.6 37.6

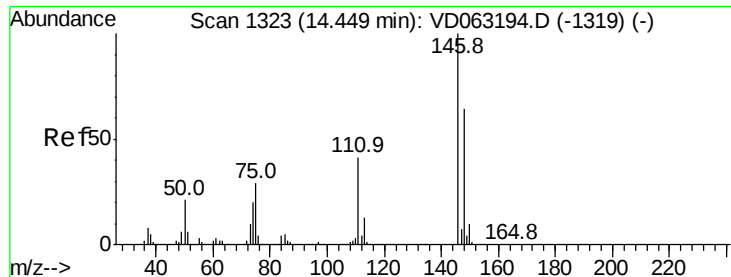


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 19.764 ug/l

RT: 14.45 min Scan# 1323

Delta R.T. -0.00 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

Instrument :

MSVOA_D

ClientSampleId :

VD0730SBSD02

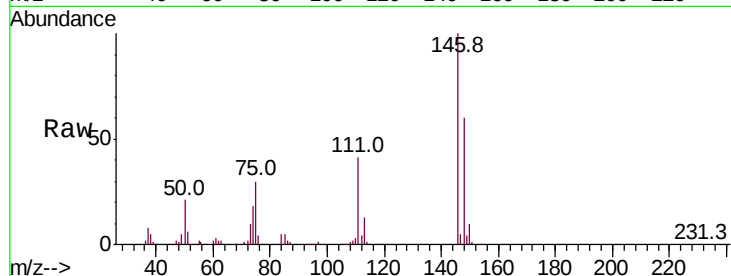
Tot Ion:146 Resp: 388727

Ion Ratio Lower Upper

146 100

111 40.6 20.4 61.3

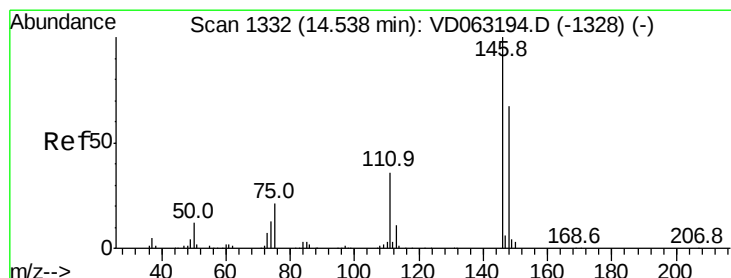
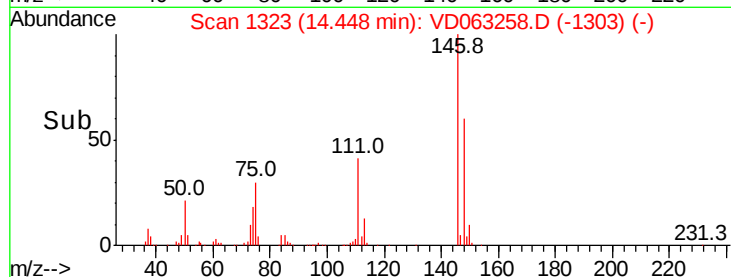
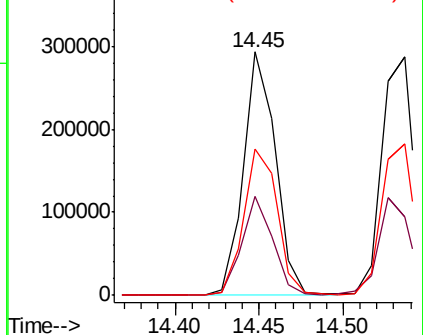
148 60.3 31.8 95.4



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 19.618 ug/l

RT: 14.54 min Scan# 1332

Delta R.T. -0.00 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

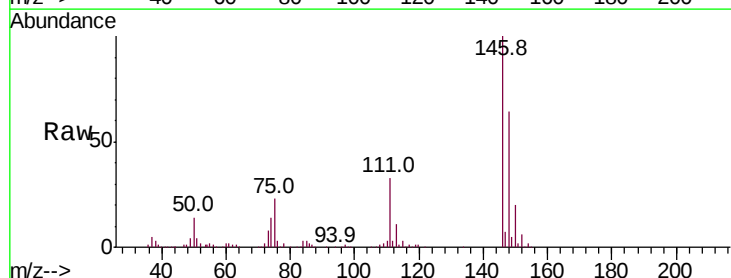
Tgt Ion:146 Resp: 390176

Ion Ratio Lower Upper

146 100

111 33.1 18.1 54.3

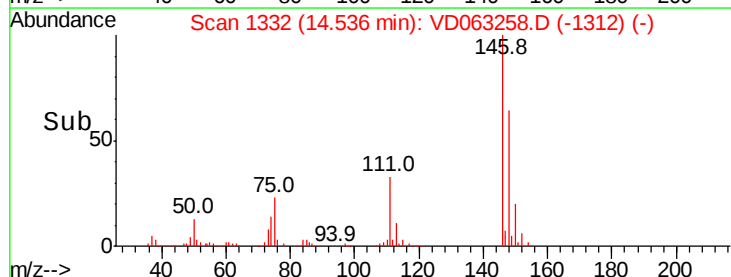
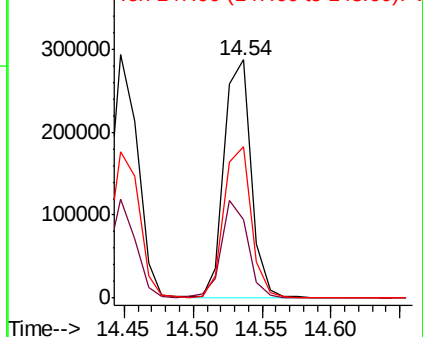
148 63.6 33.4 100.1

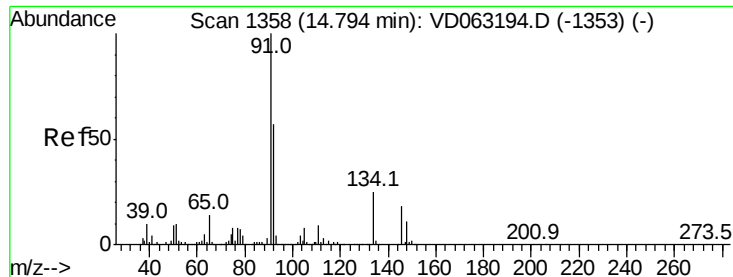


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#89

n-Butylbenzene

Concen: 19.583 ug/l

RT: 14.79 min Scan# 1358

Delta R.T. -0.00 min

Lab File: VD063258.D

Acq: 31 Jul 2019 1:05

Instrument :

MSVOA_D

ClientSampleId :

VD0730SBS02

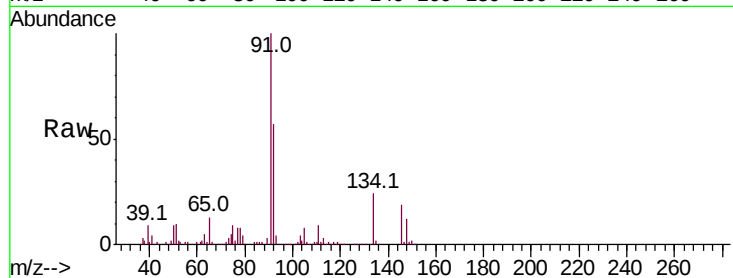
Tot Ion: 91 Resp: 653027

Ion Ratio Lower Upper

91 100

92 57.4 28.3 85.0

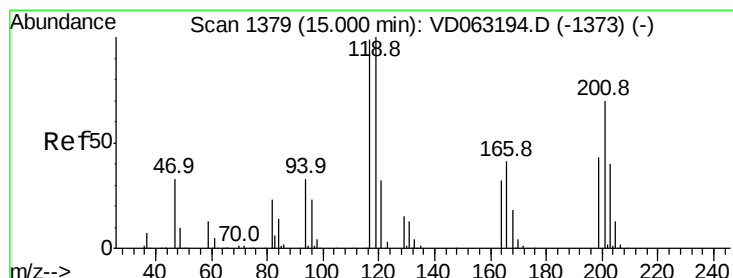
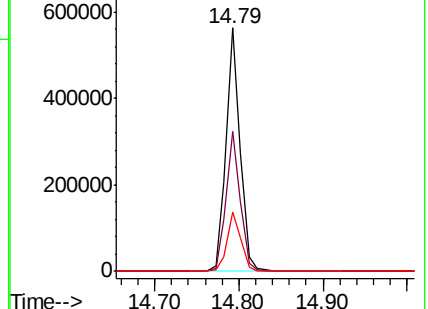
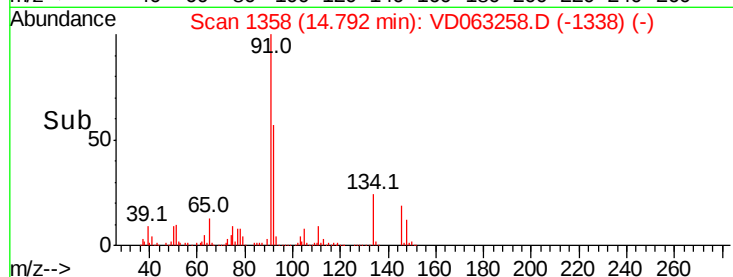
134 24.3 12.3 36.8



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.10 (133.80 to 134.80): V



#90

Hexachloroethane

Concen: 19.659 ug/l

RT: 15.00 min Scan# 1379

Delta R.T. -0.00 min

Lab File: VD063258.D

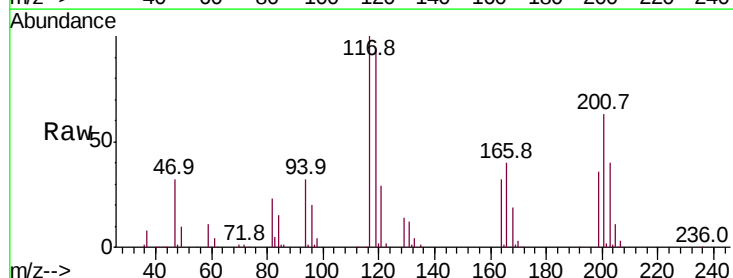
Acq: 31 Jul 2019 1:05

Tgt Ion: 117 Resp: 197749

Ion Ratio Lower Upper

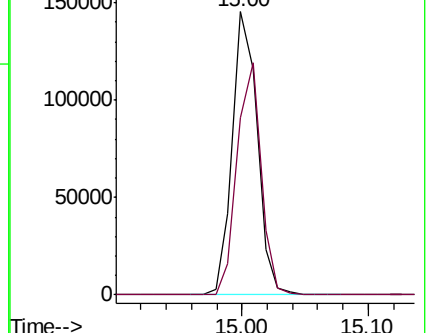
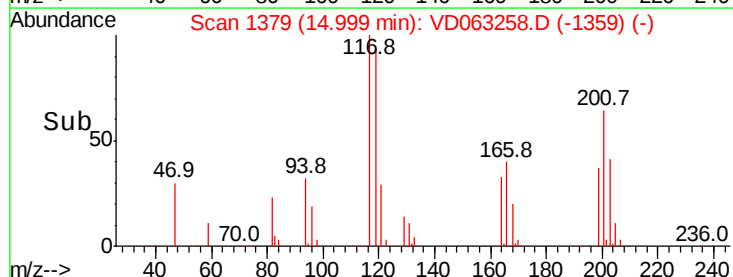
117 100

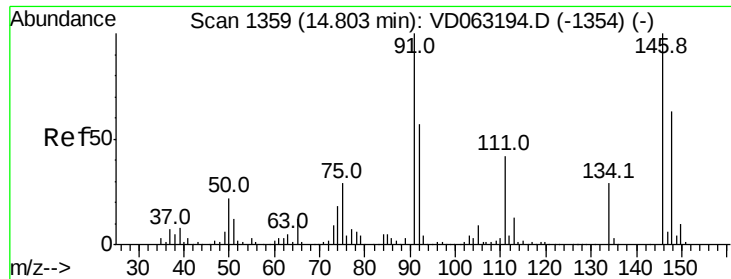
201 62.8 35.2 105.6



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V

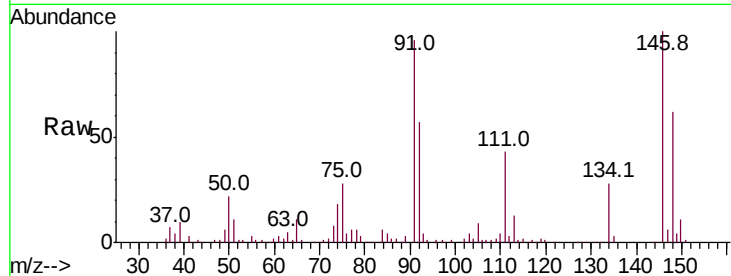




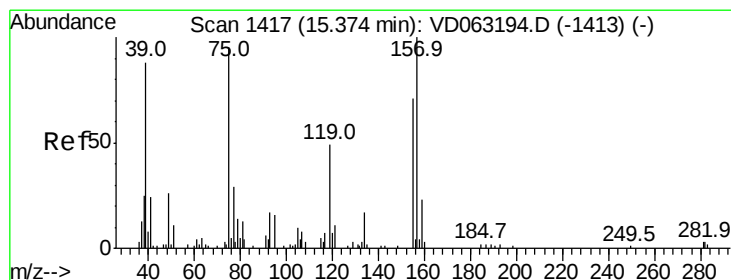
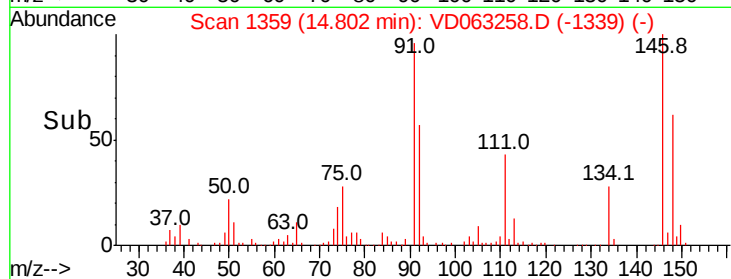
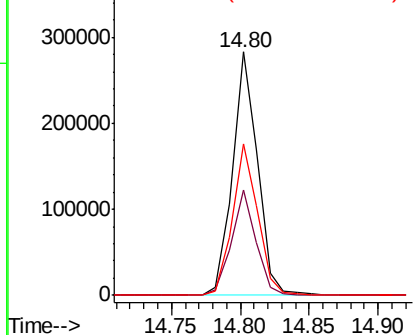
#91
 1,2-Dichlorobenzene
 Concen: 20.768 ug/l
 RT: 14.80 min Scan# 1359
 Delta R.T. -0.00 min
 Lab File: VD063258.D
 Acq: 31 Jul 2019 1:05

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0730SBSD02

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.1	63.3
148	62.0	31.6	94.8

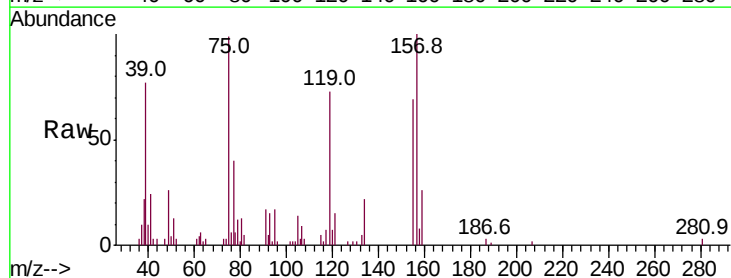


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

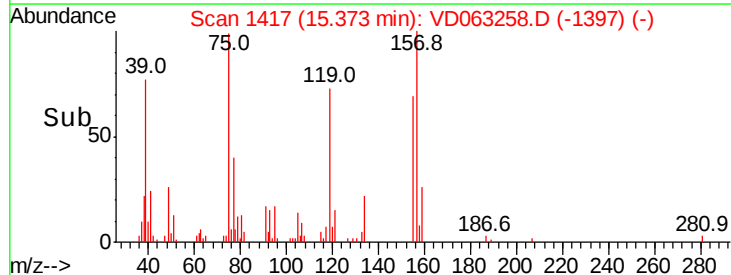
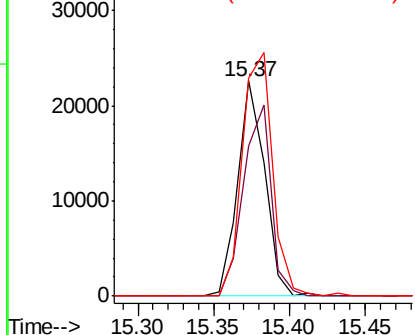


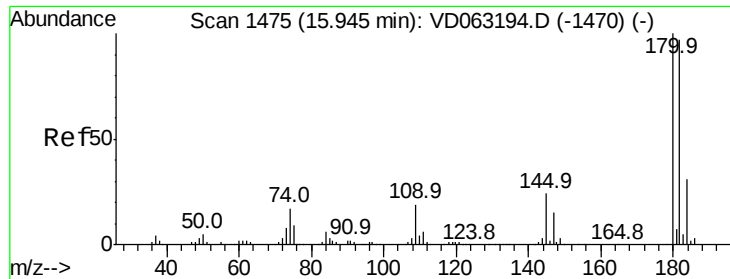
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.696 ug/l
 RT: 15.37 min Scan# 1417
 Delta R.T. -0.00 min
 Lab File: VD063258.D
 Acq: 31 Jul 2019 1:05

Tgt Ion	Ratio	Lower	Upper
75	100		
155	70.0	37.0	111.0
157	101.5	52.4	157.2



Abundance Ion 75.00 (74.70 to 75.70): V
 Ion 154.90 (154.60 to 155.60): V
 Ion 156.85 (156.55 to 157.55): V

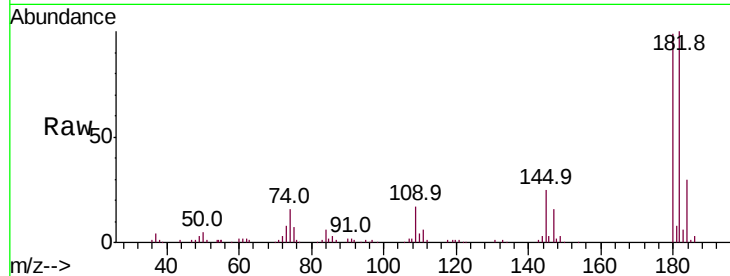




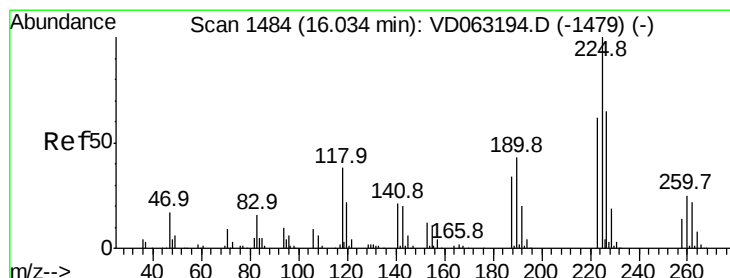
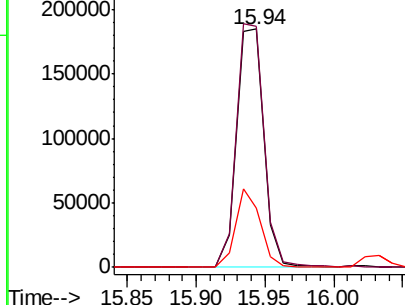
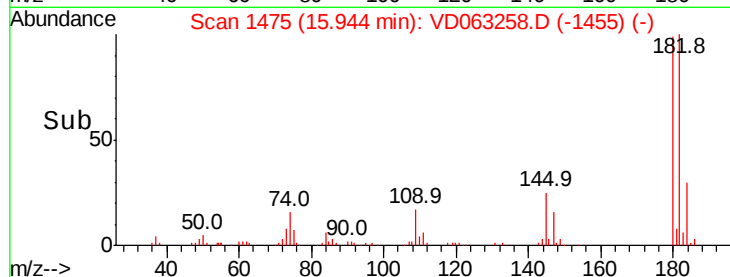
#93
 1,2,4-Trichlorobenzene
 Concen: 18.906 ug/l
 RT: 15.94 min Scan# 1475
 Delta R.T. -0.00 min
 Lab File: VD063258.D
 Acq: 31 Jul 2019 1:05

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0730SBSD02

Tot Ion:180 Resp: 257014
 Ion Ratio Lower Upper
 180 100
 182 101.1 48.6 145.8
 145 25.0 12.2 36.6

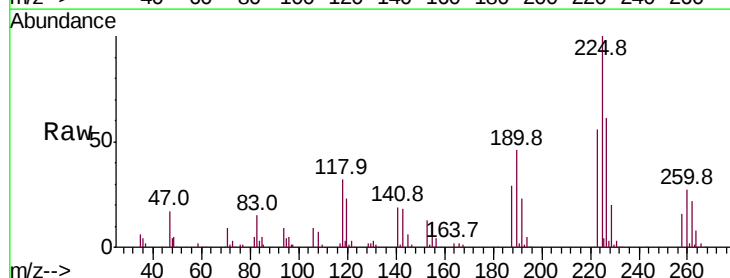


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

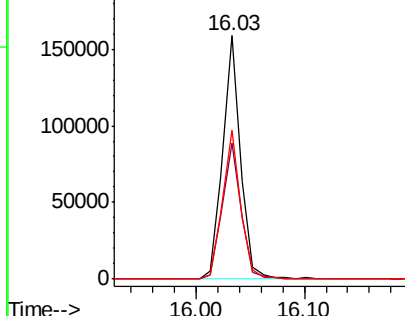
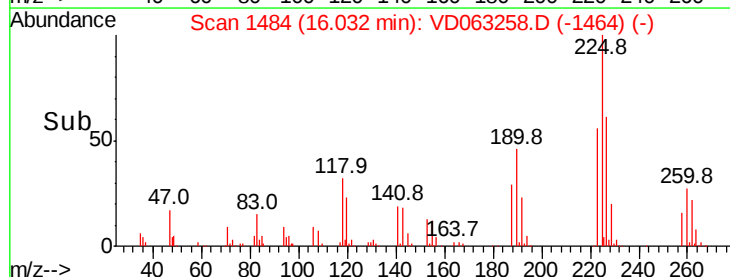


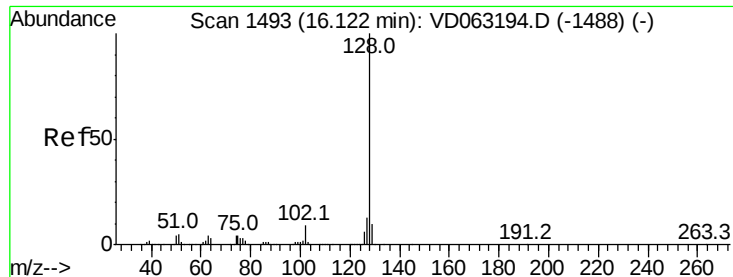
#94
 Hexachlorobutadiene
 Concen: 18.466 ug/l
 RT: 16.03 min Scan# 1484
 Delta R.T. -0.00 min
 Lab File: VD063258.D
 Acq: 31 Jul 2019 1:05

Tgt Ion:225 Resp: 181918
 Ion Ratio Lower Upper
 225 100
 223 55.7 30.9 92.5
 227 61.4 32.6 97.7



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

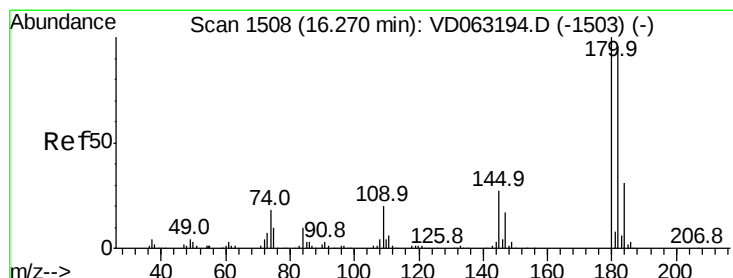
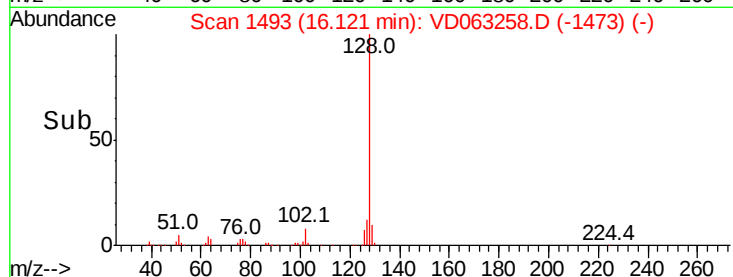
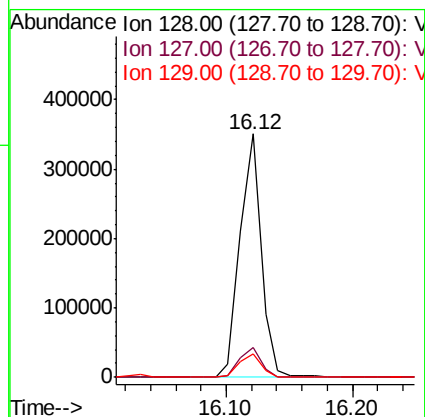
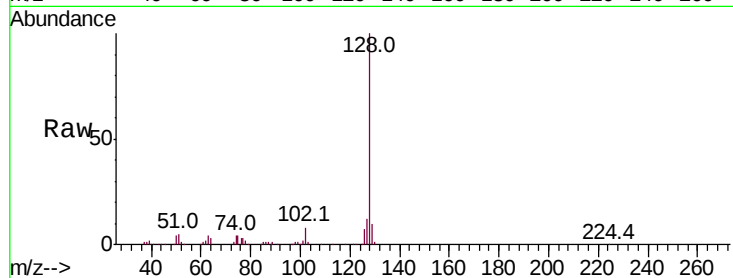




#95
Naphthalene
Concen: 21.212 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. -0.00 min
Lab File: VD063258.D
Acq: 31 Jul 2019 1:05

Instrument :
MSVOA_D
ClientSampleId :
VD0730SBSD02

Tot Ion:128 Resp: 407582
Ion Ratio Lower Upper
128 100
127 12.3 10.2 15.4
129 9.6 7.8 11.8



#96
1,2,3-Trichlorobenzene
Concen: 19.877 ug/l
RT: 16.27 min Scan# 1508
Delta R.T. -0.00 min
Lab File: VD063258.D
Acq: 31 Jul 2019 1:05

Tgt Ion:180 Resp: 213471
Ion Ratio Lower Upper
180 100
182 85.6 48.3 144.9
145 25.9 13.6 40.7

