

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD080919\
 Data File : VD063471.D
 Acq On : 9 Aug 2019 14:02
 Operator : JC/SY
 Sample : VSTDIC010
 Misc : 5.00g/5ml/MSVOA_D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC010

Quant Time: Aug 10 06:22:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 10 06:19:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	1102351	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.24	114	1588255	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.38	117	1301434	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.53	152	685016	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.47	65	103041	8.73	ug/l	0.00
Spiked Amount			Recovery	=	17.46%	
35) Dibromofluoromethane	6.94	113	115993	8.67	ug/l	0.00
Spiked Amount			Recovery	=	17.34%	
50) Toluene-d8	10.42	98	244691	8.32	ug/l	0.00
Spiked Amount			Recovery	=	16.64%	
62) 4-Bromofluorobenzene	13.56	95	124180	9.32	ug/l	0.00
Spiked Amount			Recovery	=	18.64%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	131863	9.872	ug/l	99
3) Chloromethane	1.75	50	102405	9.812	ug/l #	85
4) Vinyl Chloride	1.86	62	93781	9.053	ug/l	94
5) Bromomethane	2.16	94	48905	10.058	ug/l	95
6) Chloroethane	2.27	64	45300	9.562	ug/l #	82
7) Trichlorofluoromethane	2.54	101	197419	9.715	ug/l	92
8) Diethyl Ether	2.88	74	25991	9.059	ug/l	65
9) 1,1,2-Trichlorotrifluoroet	3.16	101	110638	9.221	ug/l #	91
10) Methyl Iodide	3.31	142	152986	9.012	ug/l #	91
11) Tert butyl alcohol	4.09	59	26719	52.011	ug/l #	87
12) 1,1-Dichloroethene	3.14	96	81411	9.132	ug/l	93
13) Acrolein	3.05	56	28191	55.744	ug/l	94
14) Allyl chloride	3.63	41	127687	9.534	ug/l	93
15) Acrylonitrile	4.22	53	61880	45.477	ug/l	93
16) Acetone	3.24	43	103458	42.871	ug/l	98
17) Carbon Disulfide	3.38	76	270966	9.627	ug/l #	95
18) Methyl Acetate	3.66	43	46230	10.173	ug/l #	83
19) Methyl tert-butyl Ether	4.25	73	172435	9.665	ug/l	99
20) Methylene Chloride	3.83	84	107385	10.350	ug/l	94
21) trans-1,2-Dichloroethene	4.23	96	90921	9.686	ug/l	93
22) Diisopropyl ether	5.14	45	260860	9.432	ug/l	98
23) Vinyl Acetate	5.08	43	729511	45.405	ug/l	98
24) 1,1-Dichloroethane	5.00	63	162997	9.497	ug/l	99
25) 2-Butanone	6.09	43	106339	44.887	ug/l	93
26) 2,2-Dichloropropane	6.04	77	155026	9.068	ug/l	84
27) cis-1,2-Dichloroethene	6.06	96	96700	9.415	ug/l	92
28) Bromochloromethane	6.45	49	69429	9.981	ug/l	82
29) Tetrahydrofuran	6.48	42	52508	47.561	ug/l	93
30) Chloroform	6.68	83	207769	9.738	ug/l	95
31) Cyclohexane	6.97	56	99402	9.329	ug/l	95
32) 1,1,1-Trichloroethane	6.89	97	197262	9.666	ug/l	96
36) 1,1-Dichloropropene	7.16	75	130411	9.288	ug/l	93
37) Ethyl Acetate	6.20	43	58208	9.918	ug/l #	86
38) Carbon Tetrachloride	7.12	117	186335	8.806	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.89	83	112429	9.417	ug/l	92
40) Benzene	7.47	78	289235	9.361	ug/l	91
41) Methacrylonitrile	6.46	41	69774	9.419	ug/l #	86
42) 1,2-Dichloroethane	7.60	62	138077	8.887	ug/l	98
43) Isopropyl Acetate	9.25	43	71534	9.078	ug/l #	80
44) Trichloroethene	8.55	130	104703	8.863	ug/l	91
45) 1,2-Dichloropropane	8.95	63	64575	8.974	ug/l	93
46) Dibromomethane	9.08	93	58137	9.461	ug/l	91
47) Bromodichloromethane	9.39	83	146976	9.325	ug/l	99
48) Methyl methacrylate	9.13	41	51014	9.546	ug/l	91
49) 1,4-Dioxane	9.09	88	8176	179.800	ug/l #	73
51) 4-Methyl-2-Pentanone	10.31	43	263036	48.783	ug/l	97
52) Toluene	10.52	92	191601	9.627	ug/l	100
53) t-1,3-Dichloropropene	10.92	75	118986	9.250	ug/l	99
54) cis-1,3-Dichloropropene	10.05	75	130981	9.030	ug/l	98
55) 1,1,2-Trichloroethane	11.20	97	60378	8.981	ug/l #	83
56) Ethyl methacrylate	11.05	69	69314	9.499	ug/l	91
57) 1,3-Dichloropropane	11.42	76	98322	9.676	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.87	63	181688	47.165	ug/l	92
59) 2-Hexanone	11.54	43	177430	45.225	ug/l	92
60) Dibromochloromethane	11.69	129	111234	9.093	ug/l	90
61) 1,2-Dibromoethane	11.82	107	76881	9.447	ug/l	84
64) Tetrachloroethene	11.27	164	94740	9.430	ug/l #	85
65) Chlorobenzene	12.41	112	227915	9.344	ug/l	96
66) 1,1,1,2-Tetrachloroethane	12.52	131	96936	9.030	ug/l	88
67) Ethyl Benzene	12.53	91	398355	9.393	ug/l	99
68) m/p-Xylenes	12.68	106	292796	19.650	ug/l	97
69) o-Xylene	13.06	106	132412	9.233	ug/l	100
70) Styrene	13.08	104	230497	9.036	ug/l	96
71) Bromoform	13.24	173	68199	9.265	ug/l	96
73) Isopropylbenzene	13.41	105	422726	9.702	ug/l	97
74) N-amyl acetate	13.27	43	97524	8.916	ug/l	95
75) 1,1,2,2-Tetrachloroethane	13.71	83	71654	9.908	ug/l	98
76) 1,2,3-Trichloropropane	13.74	75	69647	8.859	ug/l	91
77) Bromobenzene	13.68	156	118082	9.916	ug/l	86
78) n-propylbenzene	13.78	91	502030	9.848	ug/l	92
79) 2-Chlorotoluene	13.85	91	287930	9.797	ug/l	93
80) 1,3,5-Trimethylbenzene	13.94	105	376014	9.877	ug/l	94
81) trans-1,4-Dichloro-2-buten	13.48	75	17244	8.161	ug/l #	79
82) 4-Chlorotoluene	13.96	91	352002	9.959	ug/l	95
83) tert-Butylbenzene	14.19	119	391252	9.760	ug/l	92
84) 1,2,4-Trimethylbenzene	14.24	105	320134	9.088	ug/l	93
85) sec-Butylbenzene	14.37	105	412846	9.697	ug/l	95
86) p-Isopropyltoluene	14.50	119	392025	9.631	ug/l	94
87) 1,3-Dichlorobenzene	14.46	146	208998	9.703	ug/l	98
88) 1,4-Dichlorobenzene	14.55	146	190711	9.229	ug/l	95
89) n-Butylbenzene	14.80	91	350652	9.438	ug/l	95
90) Hexachloroethane	15.01	117	89598	8.757	ug/l	82
91) 1,2-Dichlorobenzene	14.81	146	168979	9.247	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	15.38	75	13616	9.999	ug/l	74

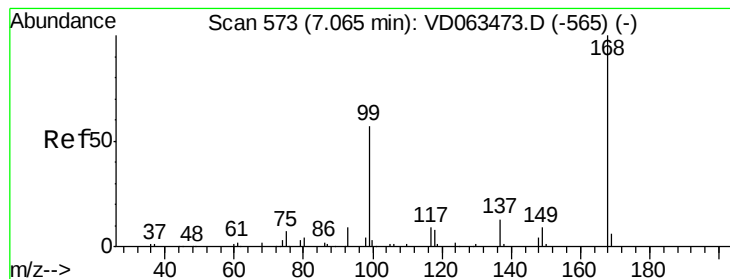
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD080919\
Data File : VD063471.D
Acq On : 9 Aug 2019 14:02
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.94	180	118697	8.827	ug/l	97
94) Hexachlorobutadiene	16.04	225	88401	8.626	ug/l	93
95) Naphthalene	16.13	128	200026	9.815	ug/l	98
96) 1,2,3-Trichlorobenzene	16.28	180	108937	10.030	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 573

Delta R.T. -0.00 min

Lab File: VD063471.D

Acq: 9 Aug 2019 14:02

Instrument :

MSVOA_D

ClientSampleId :

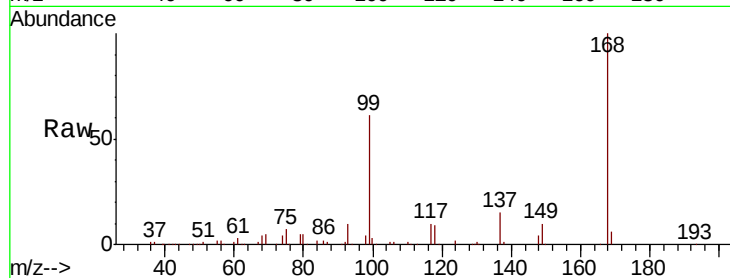
VSTDIC010

Tgt Ion:168 Resp: 1102351

Ion Ratio Lower Upper

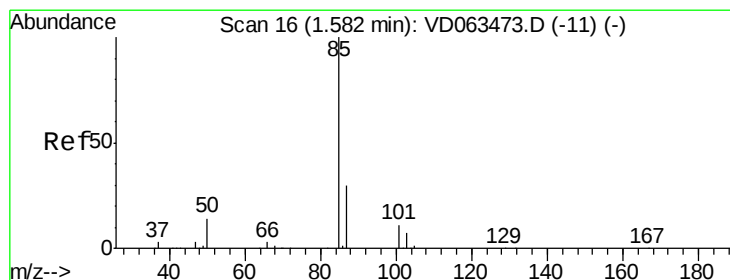
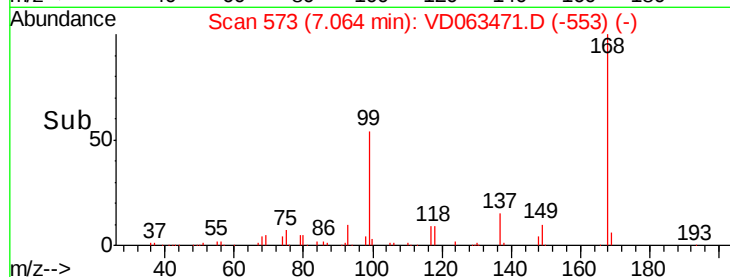
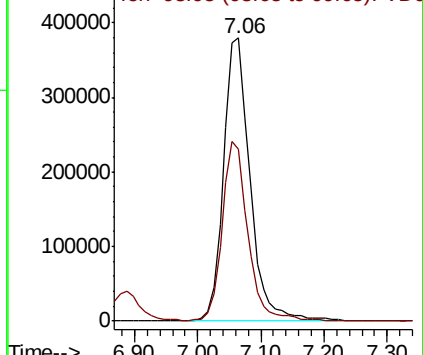
168 100

99 60.8 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 9.872 ug/l

RT: 1.58 min Scan# 16

Delta R.T. -0.00 min

Lab File: VD063471.D

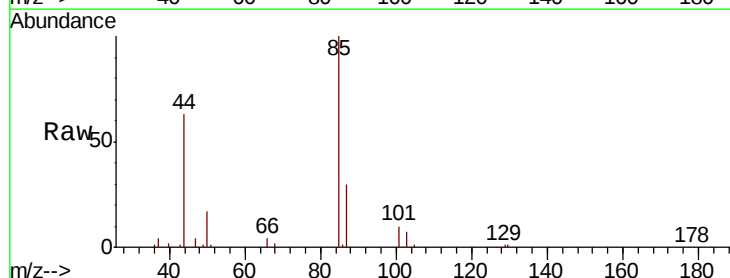
Acq: 9 Aug 2019 14:02

Tgt Ion: 85 Resp: 131863

Ion Ratio Lower Upper

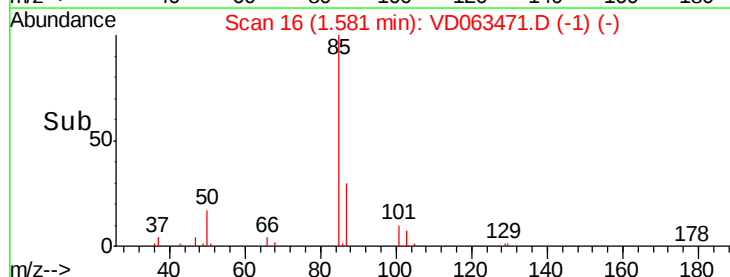
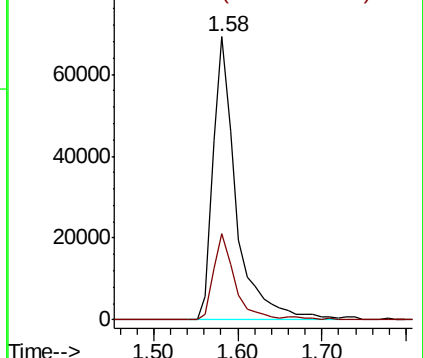
85 100

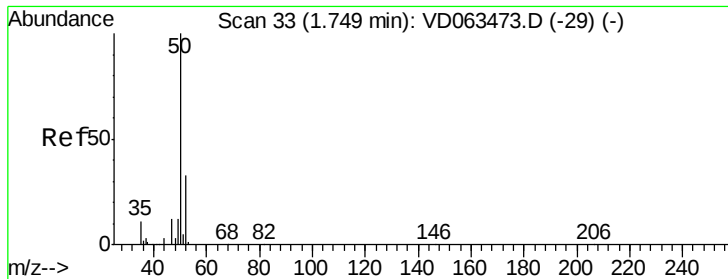
87 30.3 15.0 45.0



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 9.812 ug/l

RT: 1.75 min Scan# 33

Delta R.T. -0.00 min

Lab File: VD063471.D

Acq: 9 Aug 2019 14:02

Instrument :

MSVOA_D

ClientSampleId :

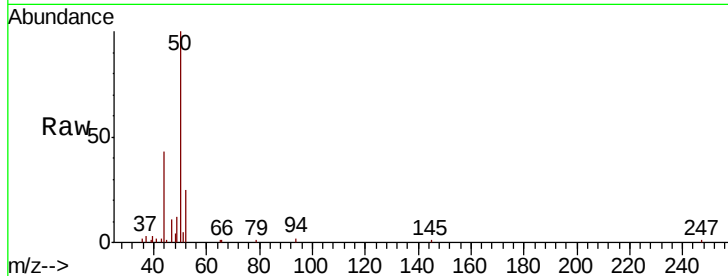
VSTDIC010

Tgt Ion: 50 Resp: 102405

Ion Ratio Lower Upper

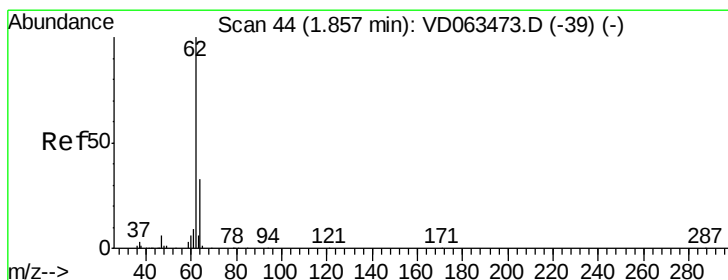
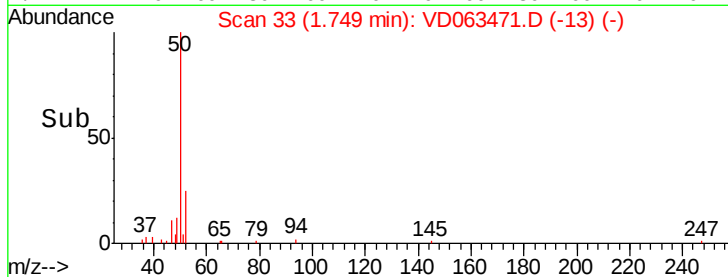
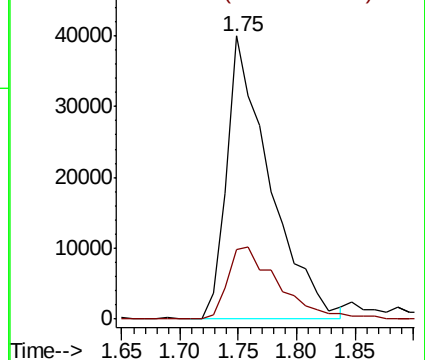
50 100

52 24.6 26.6 40.0#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 9.053 ug/l

RT: 1.86 min Scan# 44

Delta R.T. -0.00 min

Lab File: VD063471.D

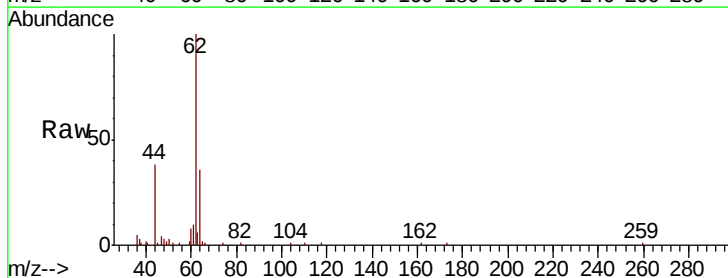
Acq: 9 Aug 2019 14:02

Tgt Ion: 62 Resp: 93781

Ion Ratio Lower Upper

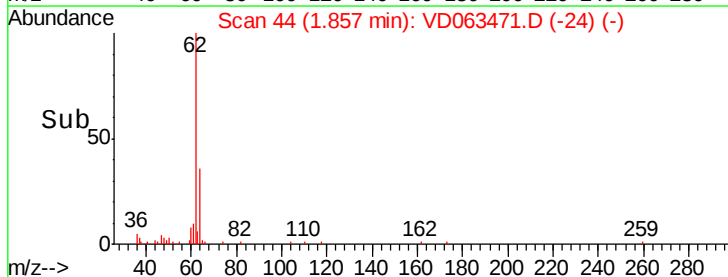
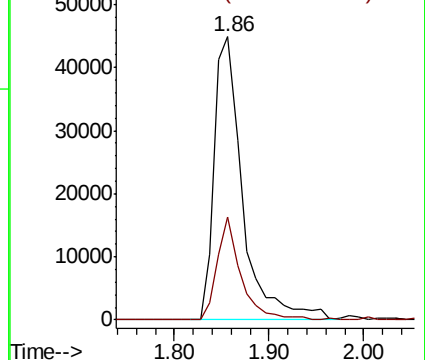
62 100

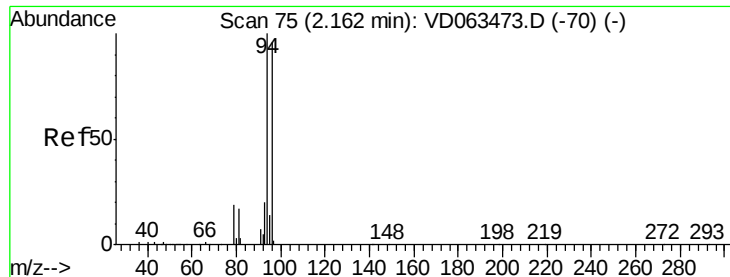
64 36.5 26.4 39.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 10.058 ug/l

RT: 2.16 min Scan# 75

Delta R.T. -0.00 min

Lab File: VD063471.D

Acq: 9 Aug 2019 14:02

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC010

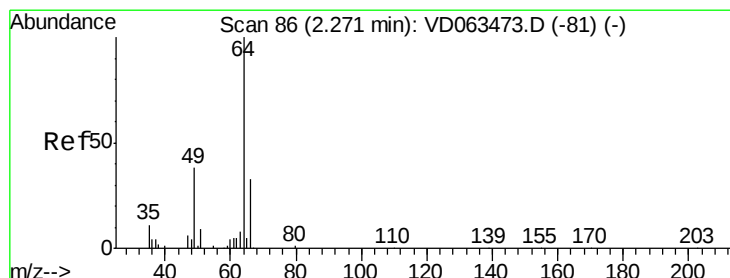
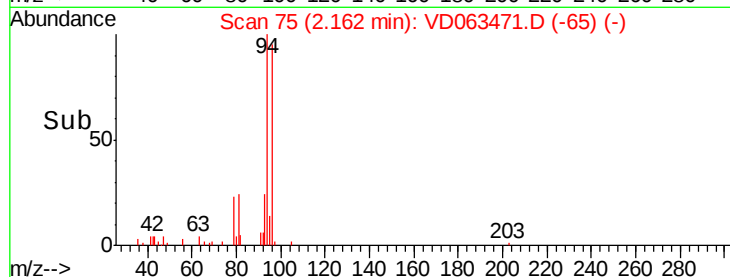
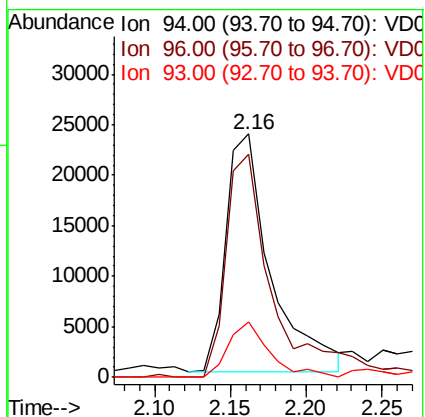
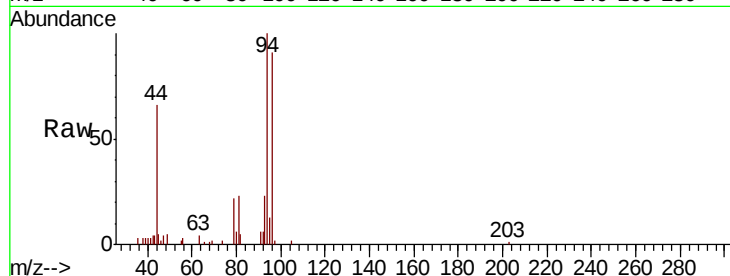
Tgt Ion: 94 Resp: 48905

Ion Ratio Lower Upper

94 100

96 91.4 76.5 114.7

93 22.7 15.8 23.8



#6

Chloroethane

Concen: 9.562 ug/l

RT: 2.27 min Scan# 86

Delta R.T. -0.00 min

Lab File: VD063471.D

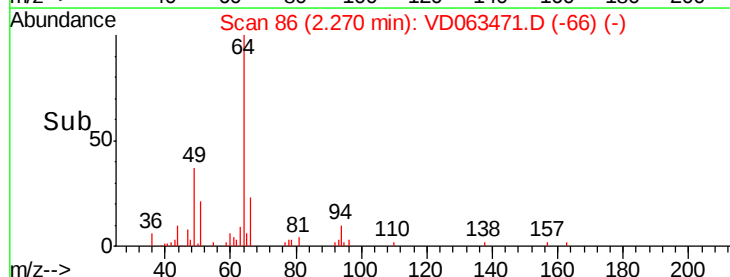
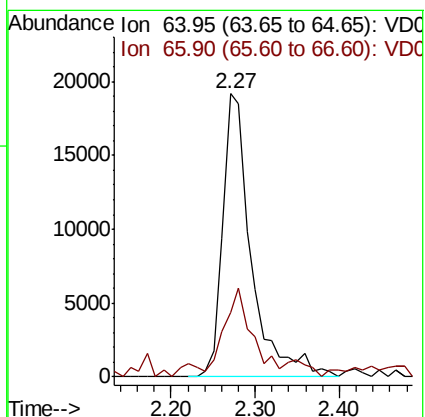
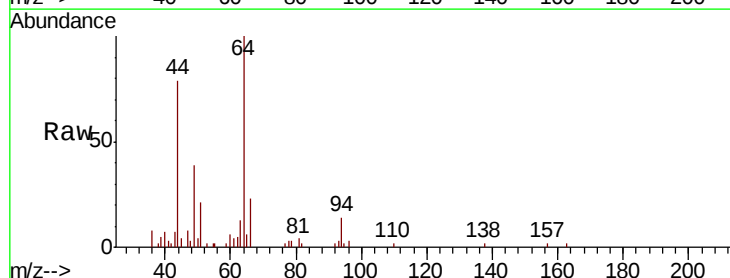
Acq: 9 Aug 2019 14:02

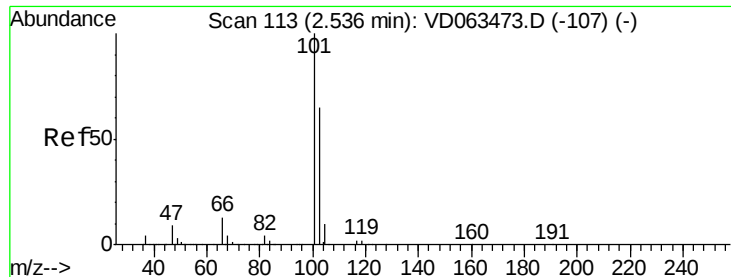
Tgt Ion: 64 Resp: 45300

Ion Ratio Lower Upper

64 100

66 22.8 26.3 39.5#





#7

Trichlorofluoromethane

Concen: 9.715 ug/l

RT: 2.54 min Scan# 113

Delta R.T. -0.00 min

Lab File: VD063471.D

Acq: 9 Aug 2019 14:02

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ClientSampleId :

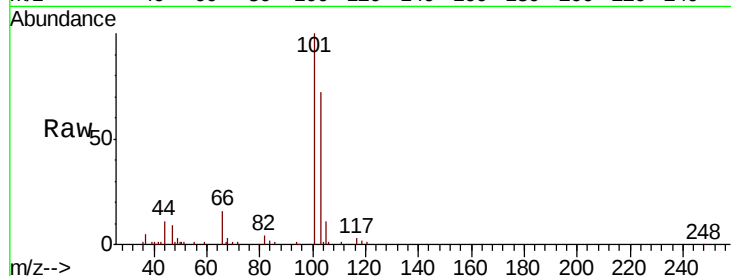
VSTDIC010

Tgt Ion:101 Resp: 197419

Ion Ratio Lower Upper

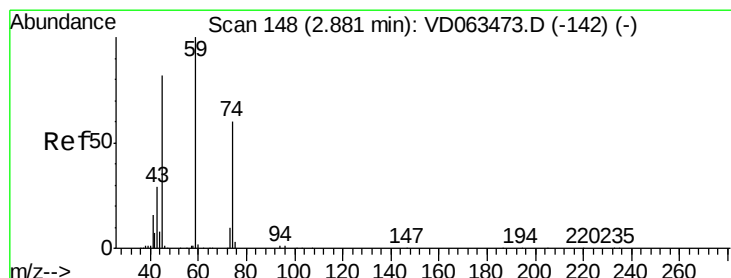
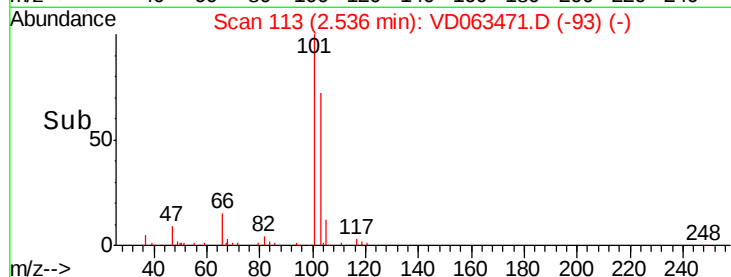
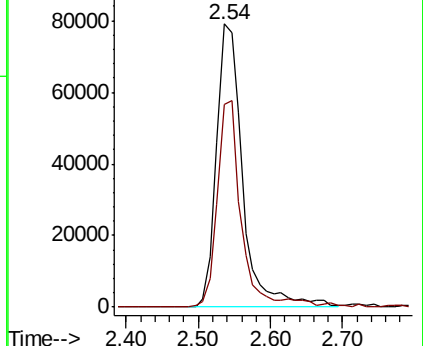
101 100

103 71.6 52.2 78.4



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 102.85 (102.55 to 103.55): V



#8

Diethyl Ether

Concen: 9.059 ug/l

RT: 2.88 min Scan# 148

Delta R.T. -0.00 min

Lab File: VD063471.D

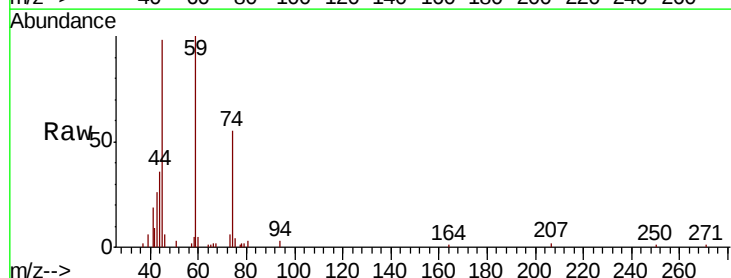
Acq: 9 Aug 2019 14:02

Tgt Ion: 74 Resp: 25991

Ion Ratio Lower Upper

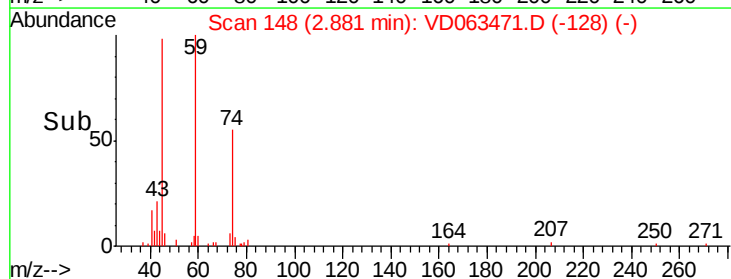
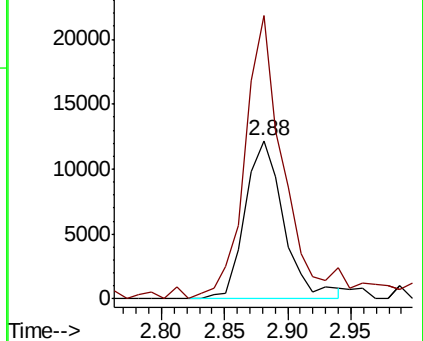
74 100

45 178.6 68.5 205.5



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC





#9

1,1,2-Trichlorotrifluoroethane

Concen: 9.221 ug/l

RT: 3.16 min Scan# 176

Delta R.T. -0.00 min

Lab File: VD063471.D

Acq: 9 Aug 2019 14:02

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC010

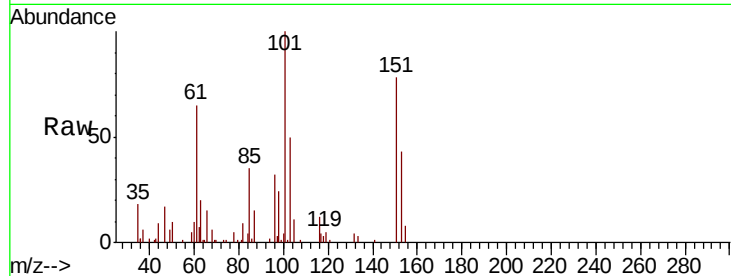
Tgt Ion:101 Resp: 110638

Ion Ratio Lower Upper

101 100

85 35.1 35.8 53.6#

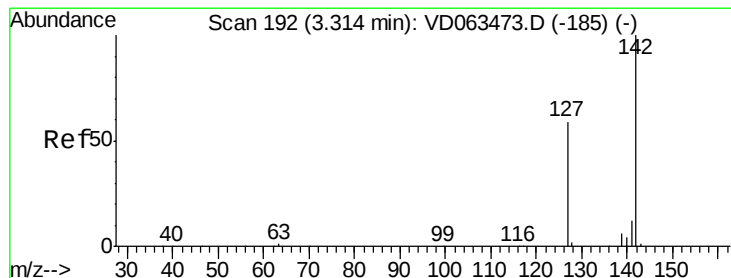
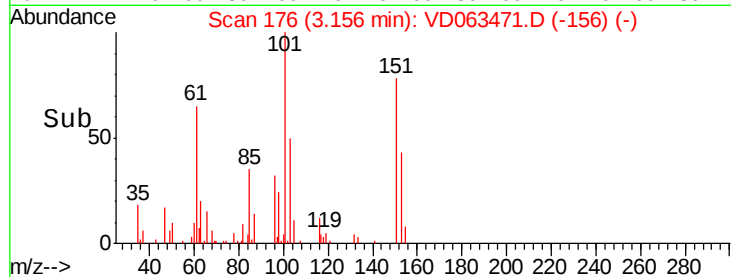
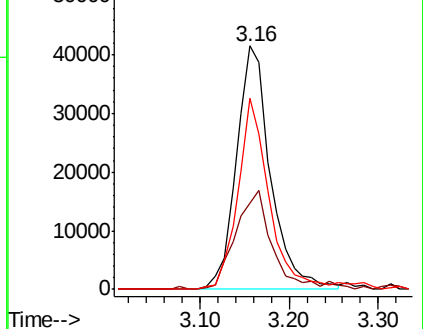
151 78.4 58.6 88.0



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 9.012 ug/l

RT: 3.31 min Scan# 192

Delta R.T. -0.00 min

Lab File: VD063471.D

Acq: 9 Aug 2019 14:02

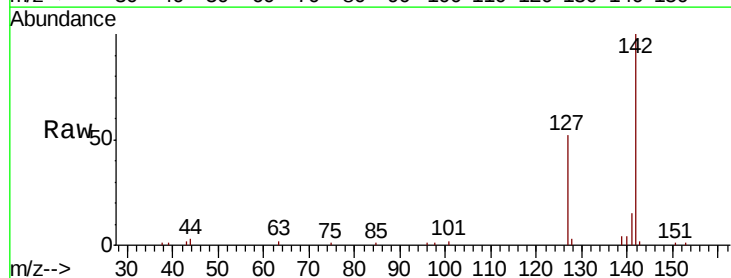
Tgt Ion:142 Resp: 152986

Ion Ratio Lower Upper

142 100

127 51.9 47.2 70.8

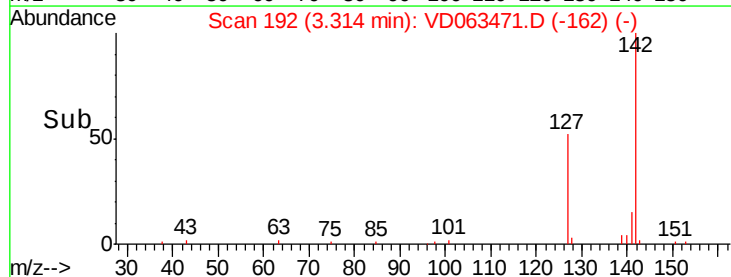
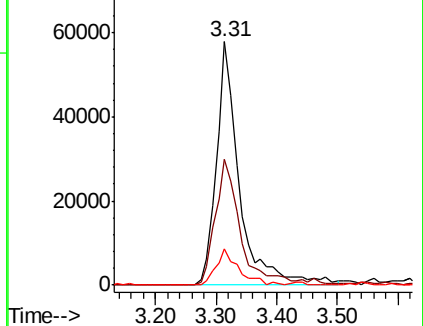
141 14.8 9.8 14.8#

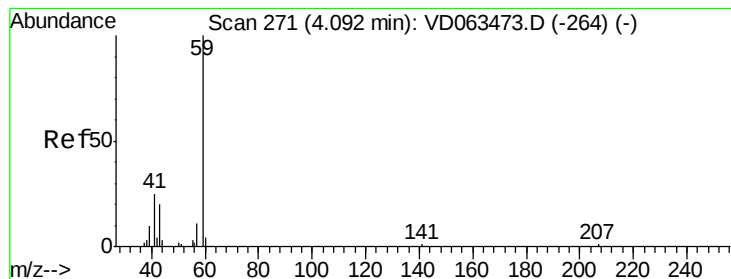


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V





#11

Tert butyl alcohol

Concen: 52.011 ug/l

RT: 4.09 min Scan# 271

Delta R.T. -0.00 min

Lab File: VD063471.D

Acq: 9 Aug 2019 14:02

Instrument :

MSVOA_D

ClientSampleId :

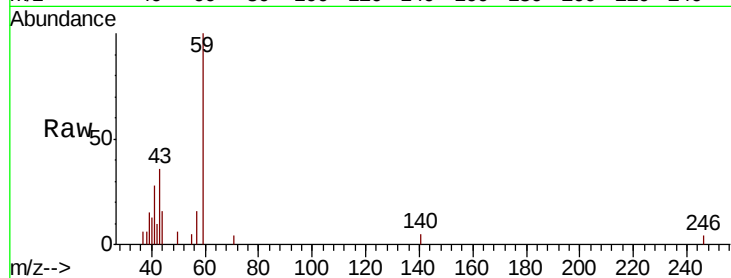
VSTDIC010

Tgt Ion: 59 Resp: 26719

Ion Ratio Lower Upper

59 100

57 15.7 8.7 13.1#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

10000

8000

6000

4000

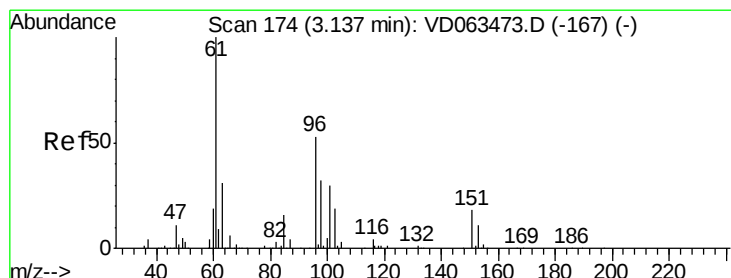
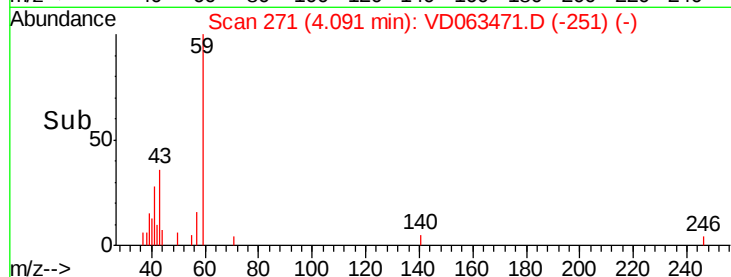
2000

0

Time-->

4.00 4.10 4.20

4.09



#12

1,1-Dichloroethene

Concen: 9.132 ug/l

RT: 3.14 min Scan# 174

Delta R.T. -0.00 min

Lab File: VD063471.D

Acq: 9 Aug 2019 14:02

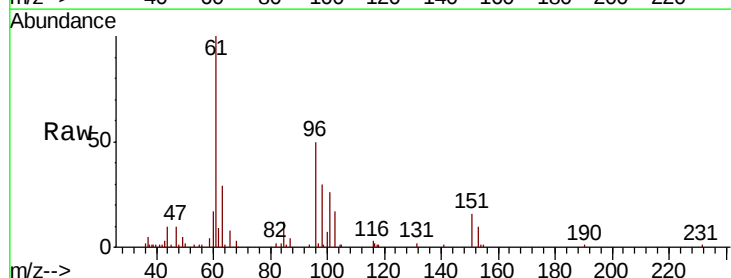
Tgt Ion: 96 Resp: 81411

Ion Ratio Lower Upper

96 100

61 201.9 151.7 227.5

98 61.6 48.4 72.6



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

80000

60000

40000

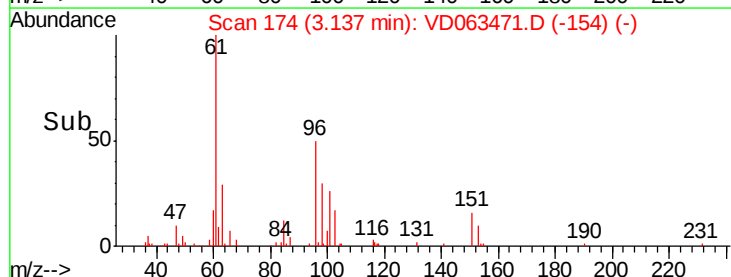
20000

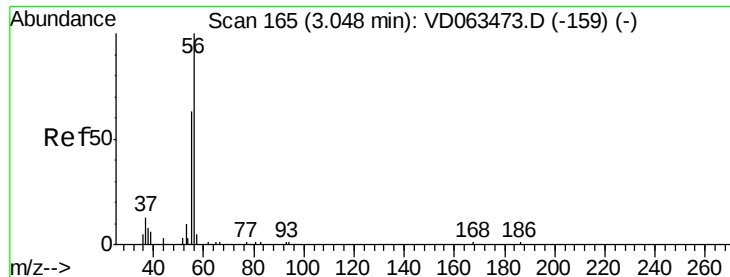
0

Time-->

3.00 3.10 3.20

3.14





#13

Acrolein

Concen: 55.744 ug/l

RT: 3.05 min Scan# 165

Delta R.T. -0.00 min

Lab File: VD063471.D

Acq: 9 Aug 2019 14:02

Instrument :

MSVOA_D

ClientSampleId :

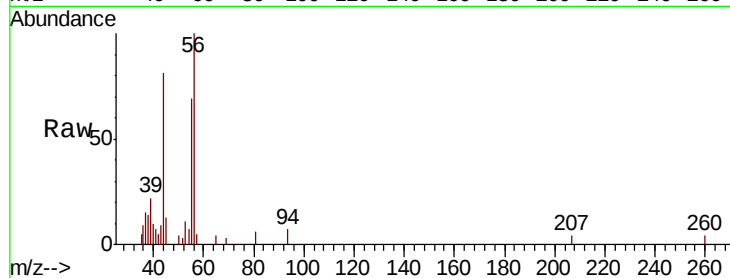
VSTDIC010

Tgt Ion: 56 Resp: 28191

Ion Ratio Lower Upper

56 100

55 69.1 51.3 76.9



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

3.05

10000

8000

6000

4000

2000

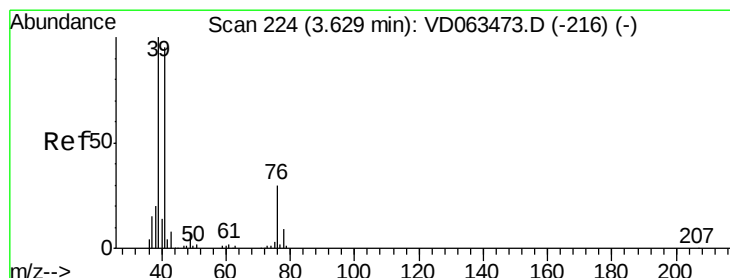
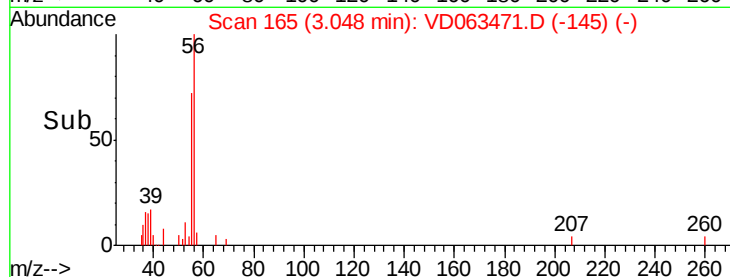
0

Time-->

3.00

3.10

3.20



#14

Allyl chloride

Concen: 9.534 ug/l

RT: 3.63 min Scan# 224

Delta R.T. -0.00 min

Lab File: VD063471.D

Acq: 9 Aug 2019 14:02

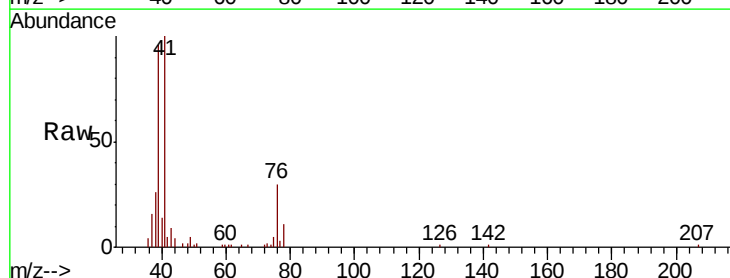
Tgt Ion: 41 Resp: 127687

Ion Ratio Lower Upper

41 100

39 96.5 84.2 126.4

76 30.3 26.0 39.0



Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC

60000

40000

20000

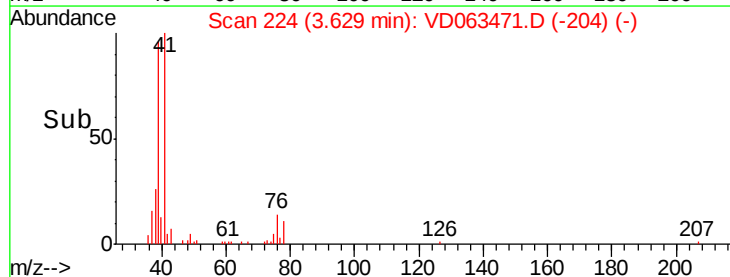
0

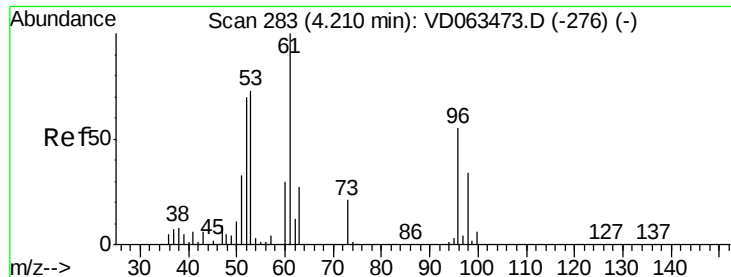
Time-->

3.50

3.60

3.70





#15

Acrylonitrile

Concen: 45.477 ug/l

RT: 4.22 min Scan# 284

Delta R.T. 0.01 min

Lab File: VD063471.D

Acq: 9 Aug 2019 14:02

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC010

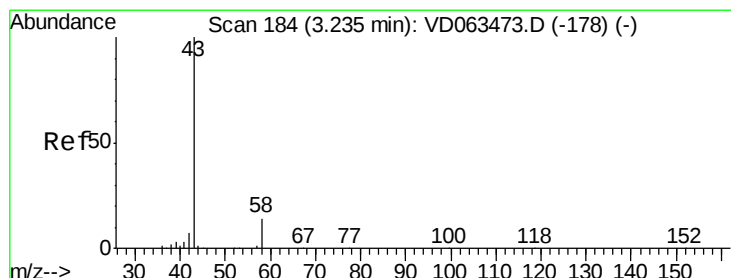
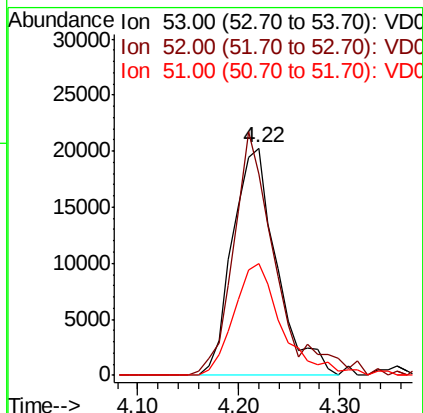
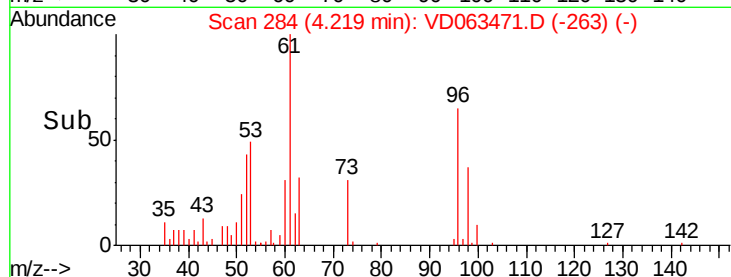
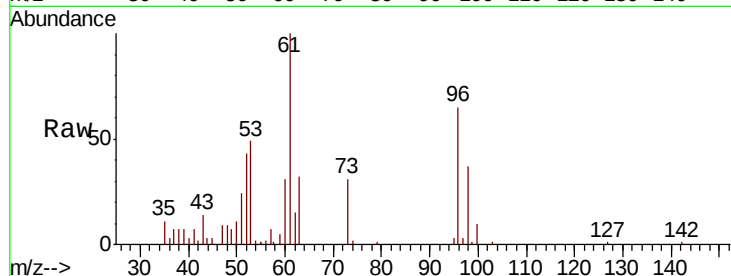
Tgt Ion: 53 Resp: 61880

Ion Ratio Lower Upper

53 100

52 88.5 77.4 116.0

51 49.3 36.7 55.1



#16

Acetone

Concen: 42.871 ug/l

RT: 3.24 min Scan# 184

Delta R.T. -0.00 min

Lab File: VD063471.D

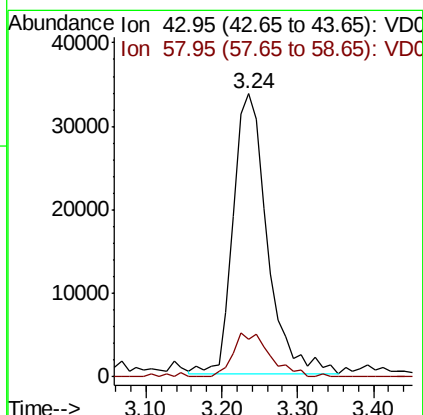
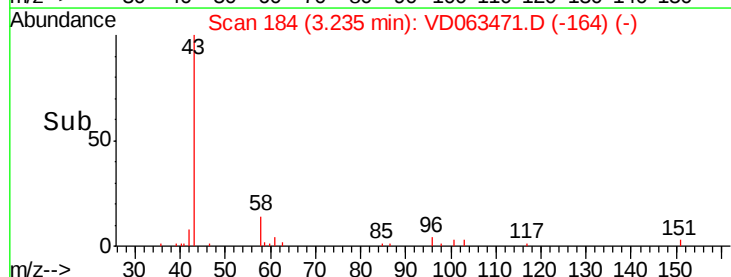
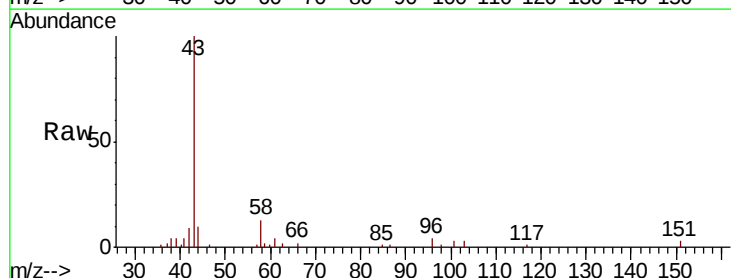
Acq: 9 Aug 2019 14:02

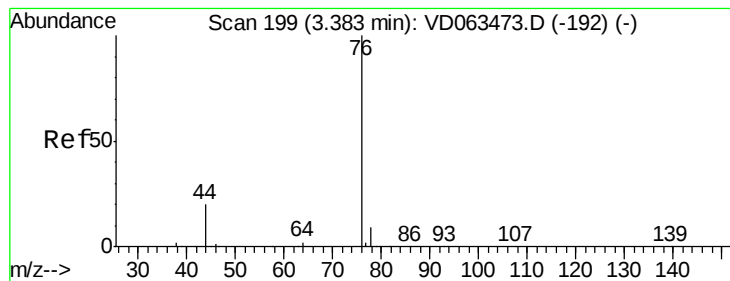
Tgt Ion: 43 Resp: 103458

Ion Ratio Lower Upper

43 100

58 13.5 11.4 17.2





#17

Carbon Disulfide

Concen: 9.627 ug/l

RT: 3.38 min Scan# 199

Delta R.T. -0.00 min

Lab File: VD063471.D

Acq: 9 Aug 2019 14:02

Instrument :

MSVOA_D

ClientSampleId :

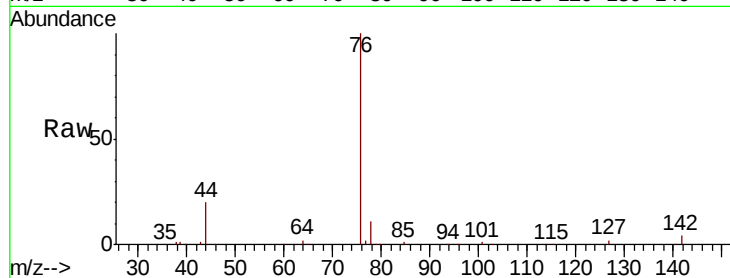
VSTDIC010

Tgt Ion: 76 Resp: 270966

Ion Ratio Lower Upper

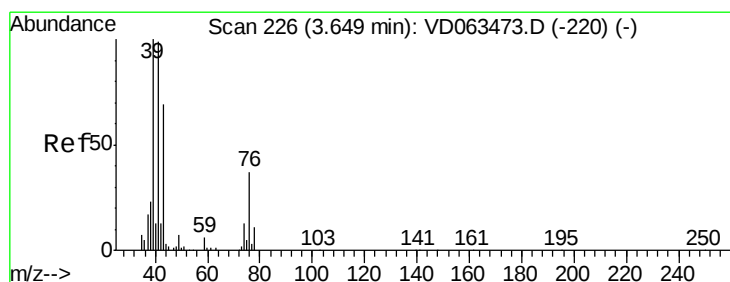
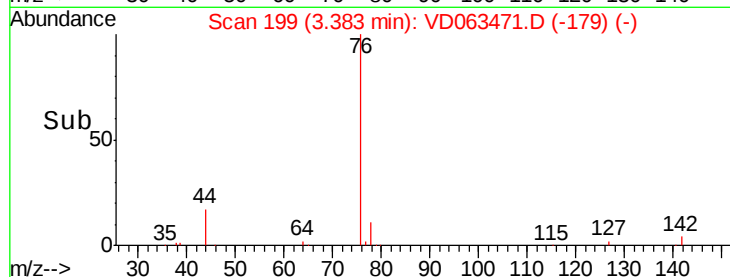
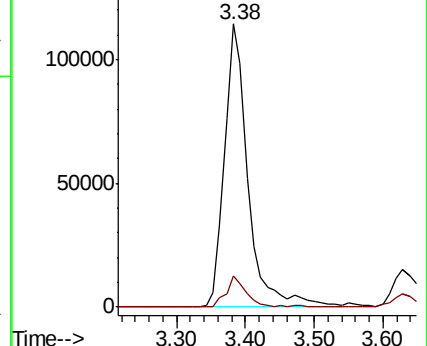
76 100

78 11.1 7.4 11.0#



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 10.173 ug/l

RT: 3.66 min Scan# 227

Delta R.T. 0.01 min

Lab File: VD063471.D

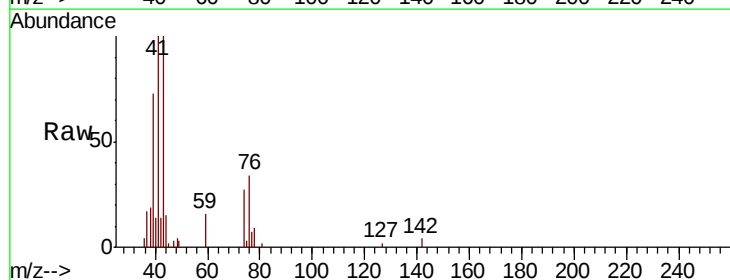
Acq: 9 Aug 2019 14:02

Tgt Ion: 43 Resp: 46230

Ion Ratio Lower Upper

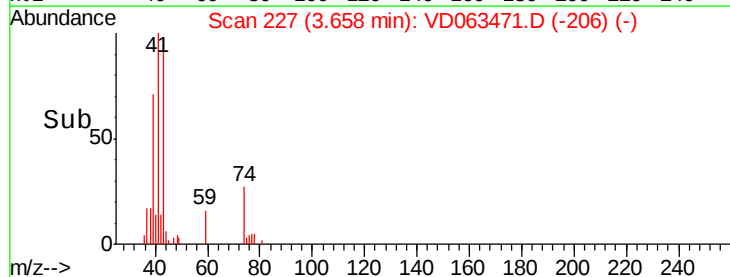
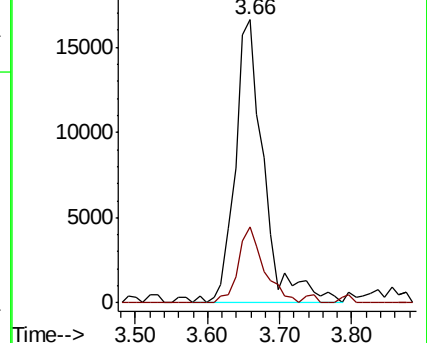
43 100

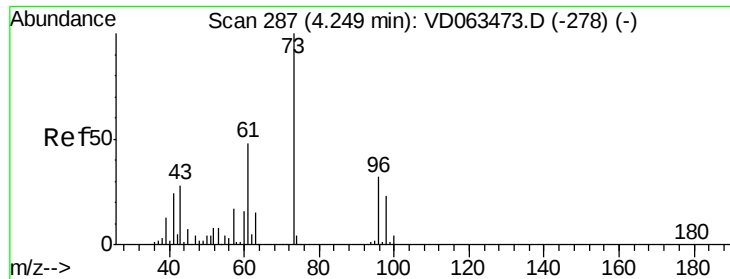
74 27.0 15.4 23.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





#19

Methyl tert-butyl Ether

Concen: 9.665 ug/l

RT: 4.25 min Scan# 287

Delta R.T. -0.00 min

Lab File: VD063471.D

Acq: 9 Aug 2019 14:02

Instrument :

MSVOA_D

ClientSampleId :

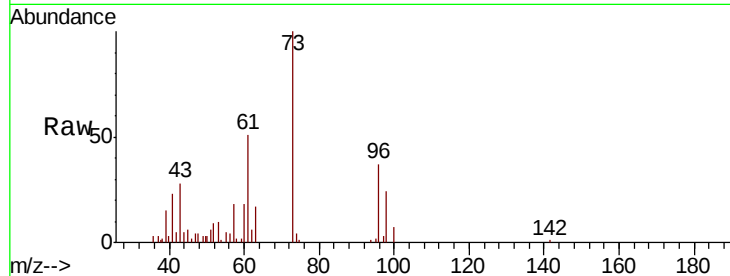
VSTDIC010

Tgt Ion: 73 Resp: 172435

Ion Ratio Lower Upper

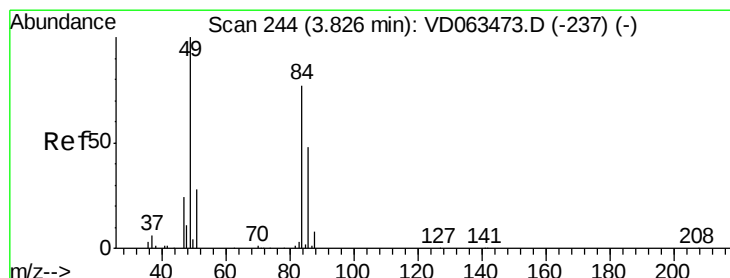
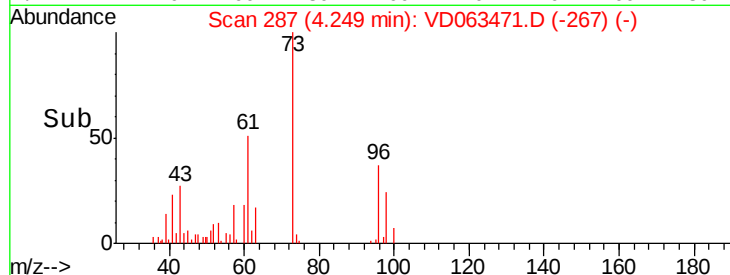
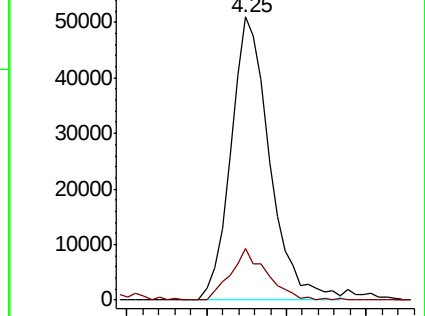
73 100

57 18.1 14.0 21.0



Abundance Ion 73.00 (72.70 to 73.70): VDC

Ion 57.05 (56.75 to 57.75): VDC



#20

Methylene Chloride

Concen: 10.350 ug/l

RT: 3.83 min Scan# 244

Delta R.T. -0.00 min

Lab File: VD063471.D

Acq: 9 Aug 2019 14:02

Tgt Ion: 84 Resp: 107385

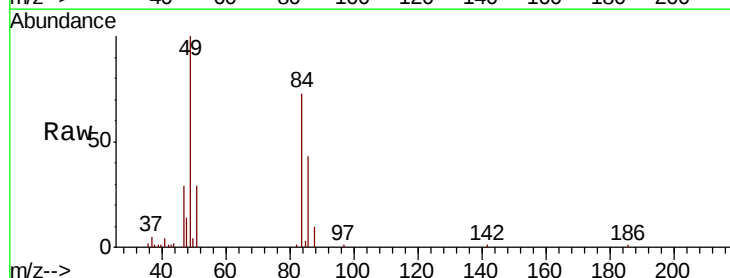
Ion Ratio Lower Upper

84 100

49 137.8 103.4 155.2

51 39.7 28.5 42.7

86 59.8 49.4 74.2

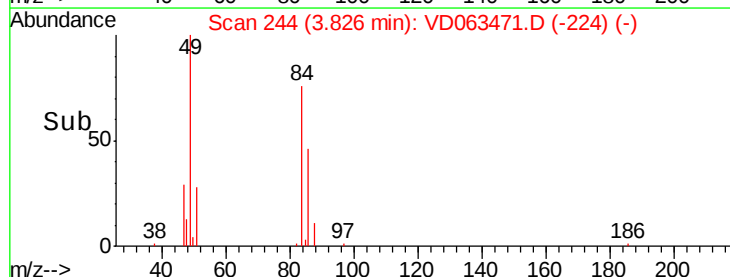
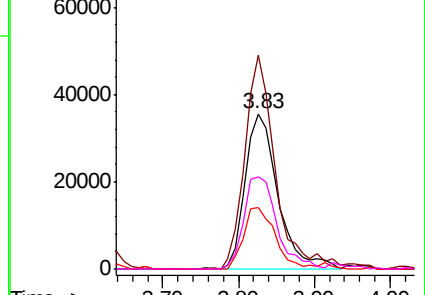


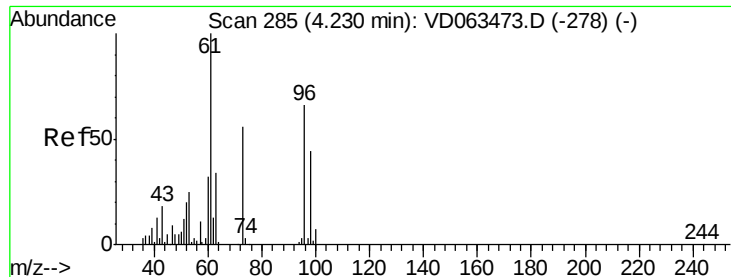
Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC





#21

trans-1,2-Dichloroethene

Concen: 9.686 ug/l

RT: 4.23 min Scan# 285

Delta R.T. -0.00 min

Lab File: VD063471.D

Acq: 9 Aug 2019 14:02

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC010

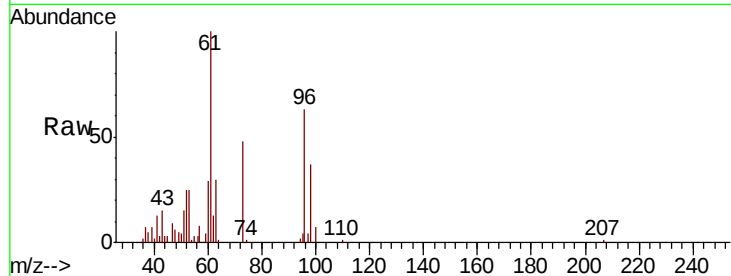
Tgt Ion: 96 Resp: 90921

Ion Ratio Lower Upper

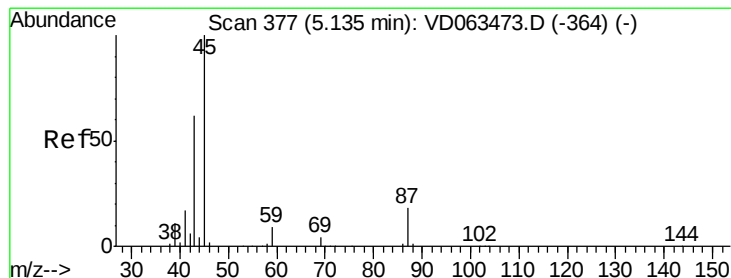
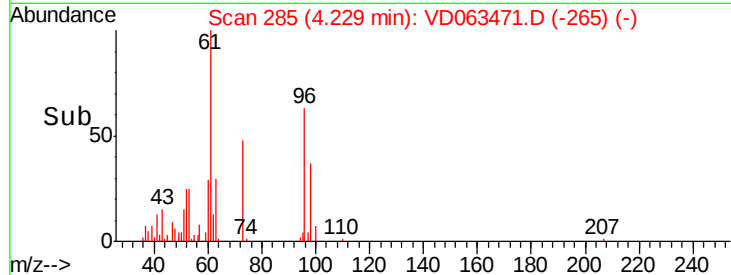
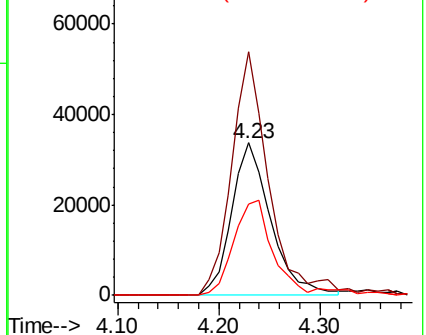
96 100

61 159.9 121.7 182.5

98 59.8 54.2 81.2



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



#22

Diisopropyl ether

Concen: 9.432 ug/l

RT: 5.14 min Scan# 378

Delta R.T. 0.01 min

Lab File: VD063471.D

Acq: 9 Aug 2019 14:02

Tgt Ion: 45 Resp: 260860

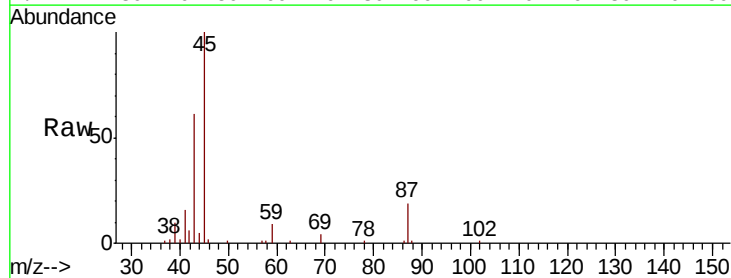
Ion Ratio Lower Upper

45 100

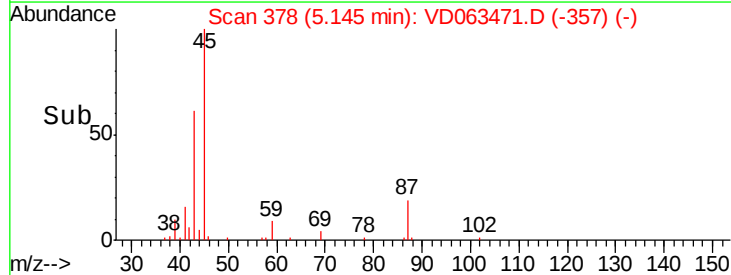
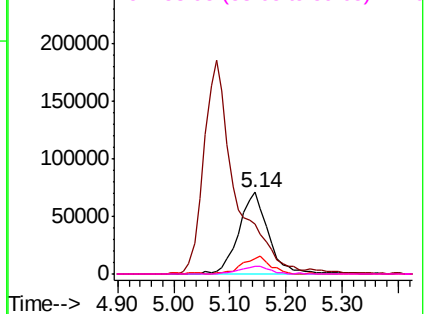
43 61.2 50.3 75.5

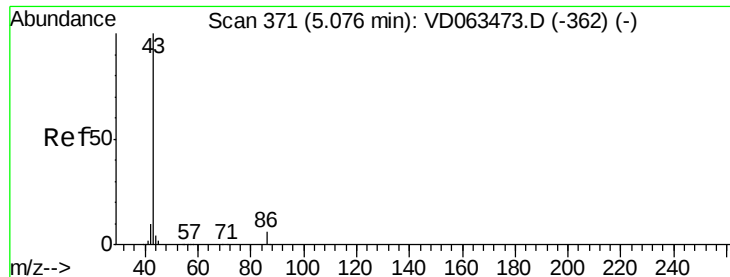
87 18.6 14.3 21.5

59 8.9 7.7 11.5



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





#23

Vinyl Acetate

Concen: 45.405 ug/l

RT: 5.08 min Scan# 371

Delta R.T. -0.00 min

Lab File: VD063471.D

Acq: 9 Aug 2019 14:02

Instrument :

MSVOA_D

ClientSampleId :

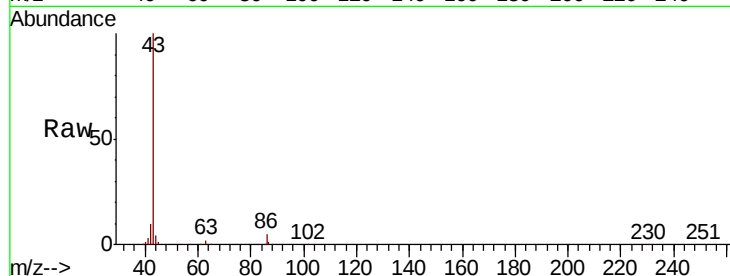
VSTDIC010

Tgt Ion: 43 Resp: 729511

Ion Ratio Lower Upper

43 100

86 5.3 4.8 7.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC

200000

150000

100000

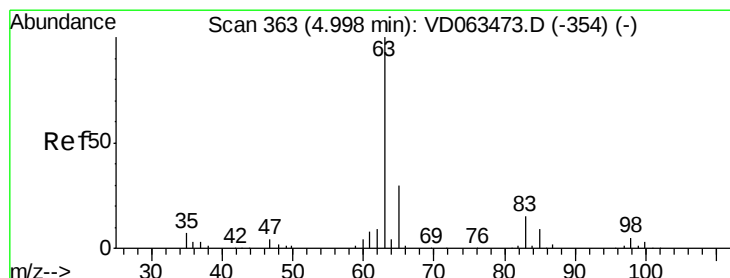
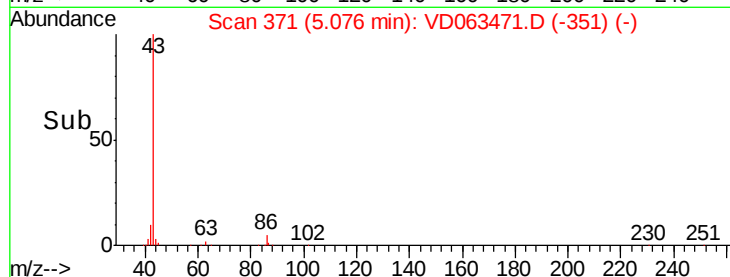
50000

0

Time-->

4.90 5.00 5.10 5.20 5.30

5.08



#24

1,1-Dichloroethane

Concen: 9.497 ug/l

RT: 5.00 min Scan# 363

Delta R.T. -0.00 min

Lab File: VD063471.D

Acq: 9 Aug 2019 14:02

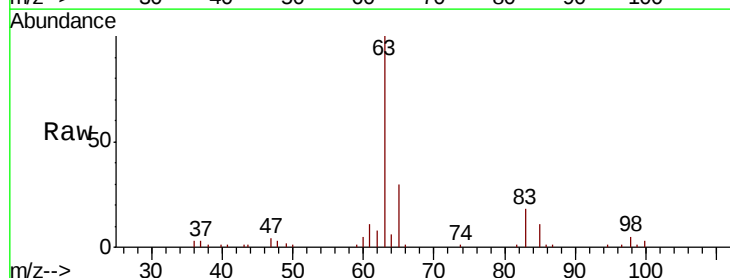
Tgt Ion: 63 Resp: 162997

Ion Ratio Lower Upper

63 100

98 5.2 2.4 7.2

100 3.0 1.3 3.8



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC

60000

50000

40000

30000

20000

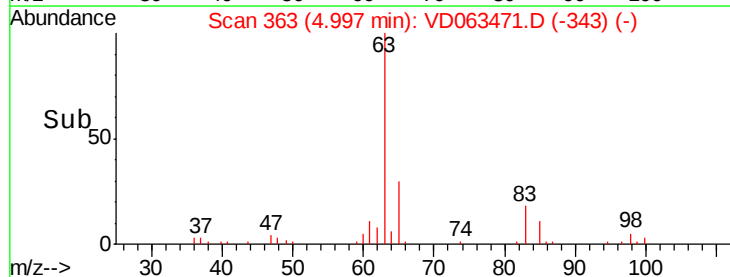
10000

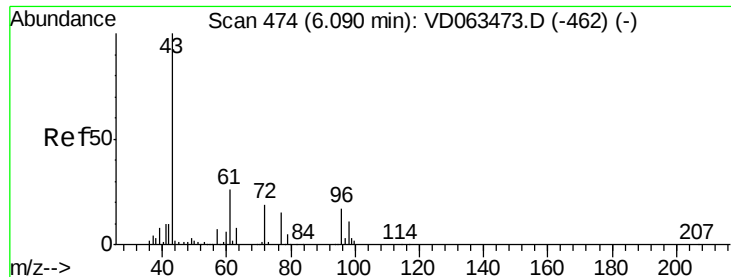
0

Time-->

4.90 5.00 5.10 5.20

5.00





#25

2-Butanone

Concen: 44.887 ug/l

RT: 6.09 min Scan# 474

Delta R.T. -0.00 min

Lab File: VD063471.D

Acq: 9 Aug 2019 14:02

Instrument :

MSVOA_D

ClientSampleId :

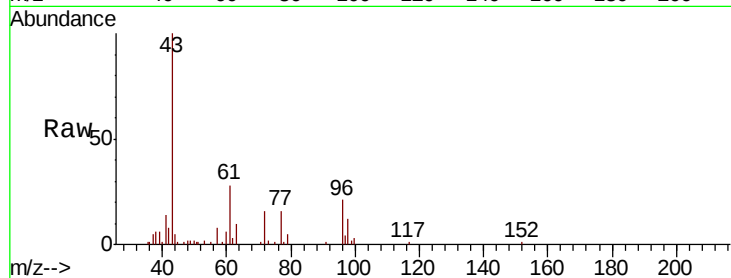
VSTDIC010

Tgt Ion: 43 Resp: 106339

Ion Ratio Lower Upper

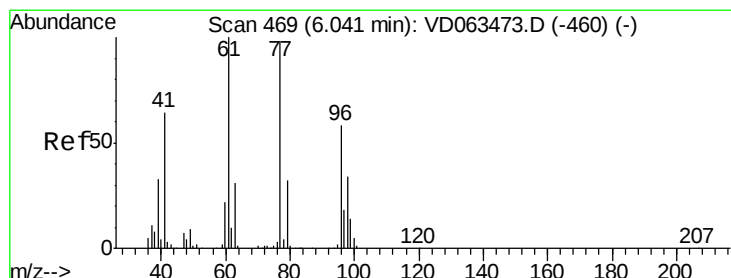
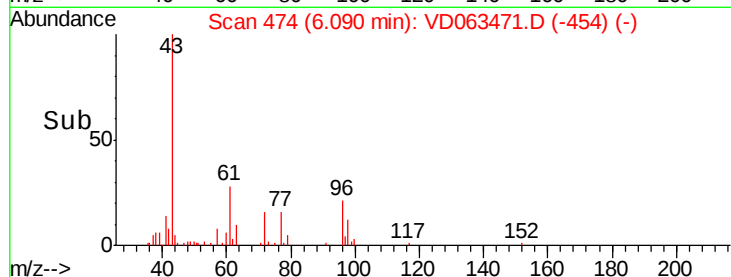
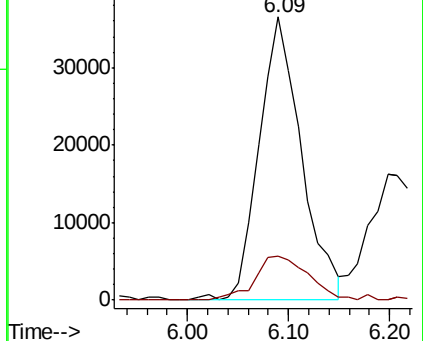
43 100

72 15.7 15.1 22.7



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 9.068 ug/l

RT: 6.04 min Scan# 469

Delta R.T. -0.00 min

Lab File: VD063471.D

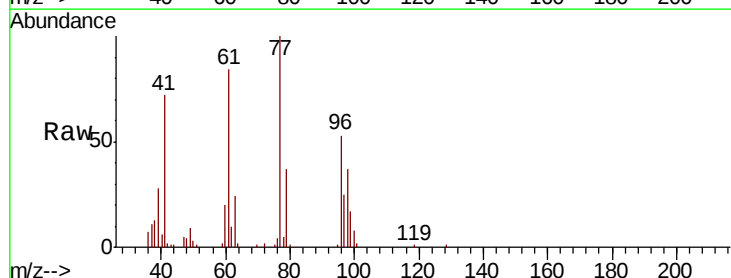
Acq: 9 Aug 2019 14:02

Tgt Ion: 77 Resp: 155026

Ion Ratio Lower Upper

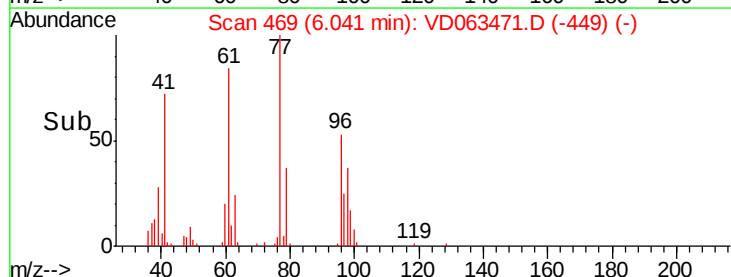
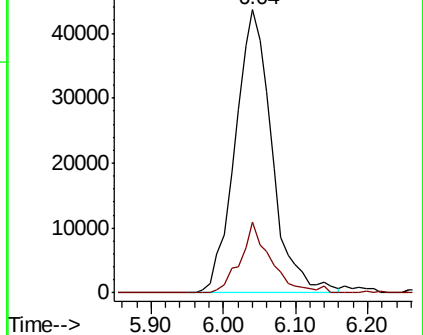
77 100

97 25.1 9.0 27.1



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



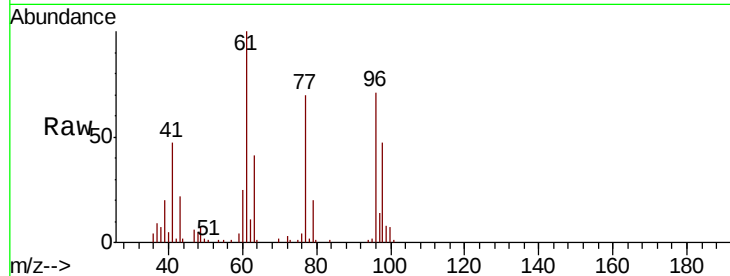


#27

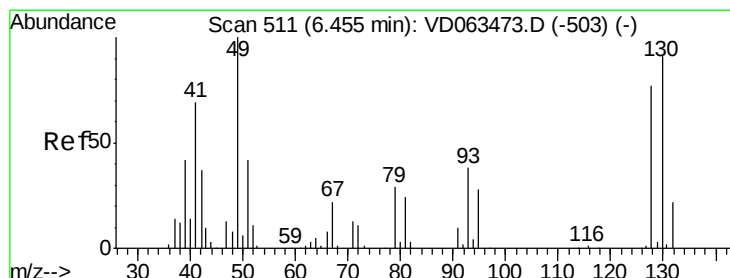
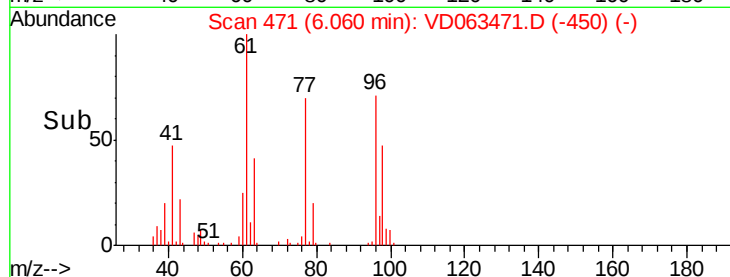
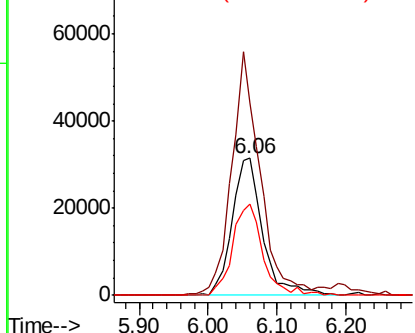
cis-1,2-Dichloroethene
Concen: 9.415 ug/l
RT: 6.06 min Scan# 471
Delta R.T. 0.01 min
Lab File: VD063471.D
Acq: 9 Aug 2019 14:02

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

Tgt Ion: 96 Resp: 96700
Ion Ratio Lower Upper
96 100
61 140.2 0.0 304.0
98 66.4 0.0 124.8



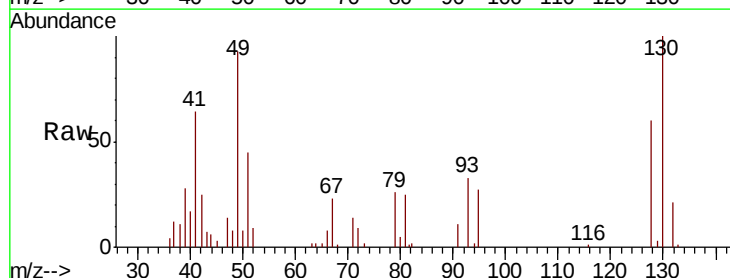
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



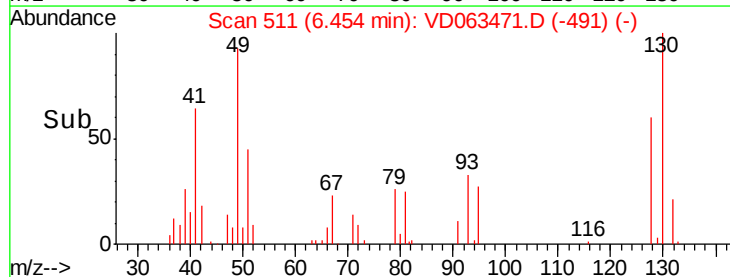
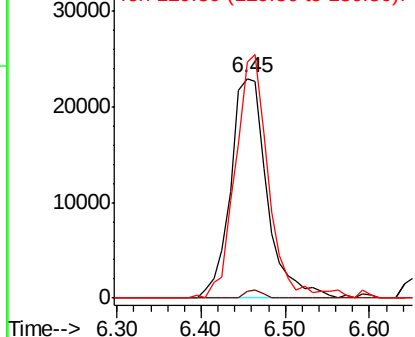
#28

Bromochloromethane
Concen: 9.981 ug/l
RT: 6.45 min Scan# 511
Delta R.T. -0.00 min
Lab File: VD063471.D
Acq: 9 Aug 2019 14:02

Tgt Ion: 49 Resp: 69429
Ion Ratio Lower Upper
49 100
129 3.4 0.0 6.4
130 107.8 72.4 108.6



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





#29

Tetrahydrofuran

Concen: 47.561 ug/l

RT: 6.48 min Scan# 514

Delta R.T. 0.01 min

Lab File: VD063471.D

Acq: 9 Aug 2019 14:02

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC010

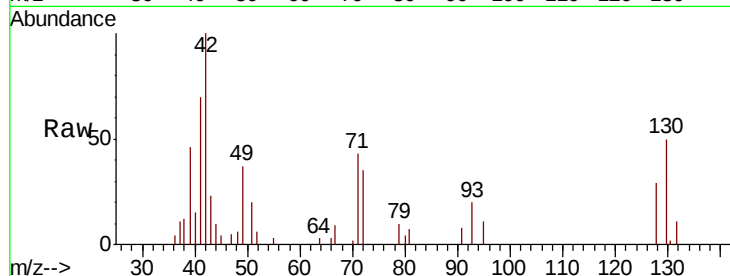
Tgt Ion: 42 Resp: 52508

Ion Ratio Lower Upper

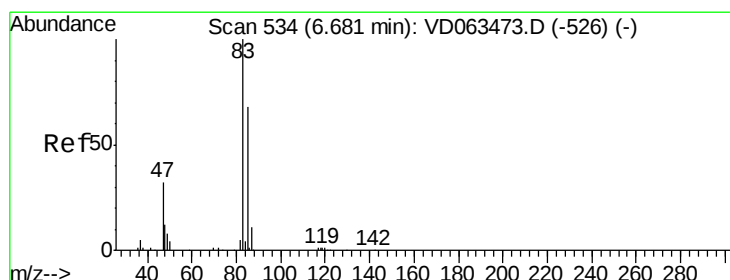
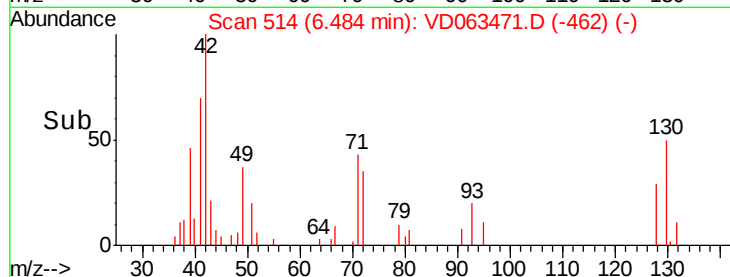
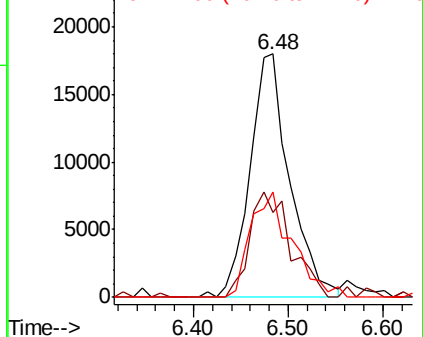
42 100

72 44.6 31.5 47.3

71 45.6 33.8 50.8



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: 9.738 ug/l

RT: 6.68 min Scan# 534

Delta R.T. -0.00 min

Lab File: VD063471.D

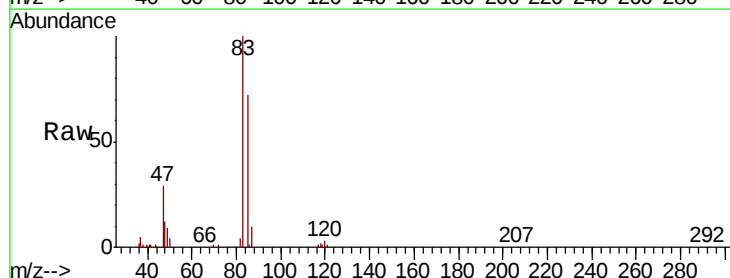
Acq: 9 Aug 2019 14:02

Tgt Ion: 83 Resp: 207769

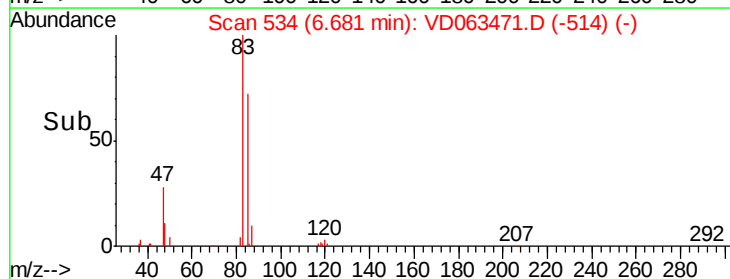
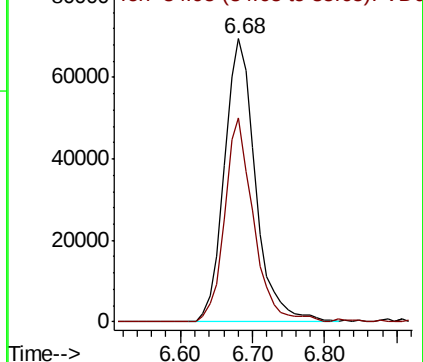
Ion Ratio Lower Upper

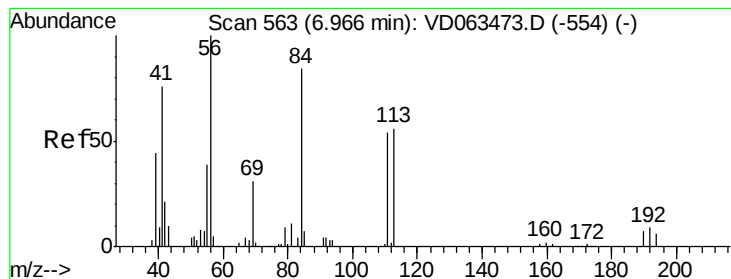
83 100

85 72.2 54.8 82.2



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





#31

Cyclohexane

Concen: 9.329 ug/l

RT: 6.97 min Scan# 563

Delta R.T. -0.00 min

Lab File: VD063471.D

Acq: 9 Aug 2019 14:02

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC010

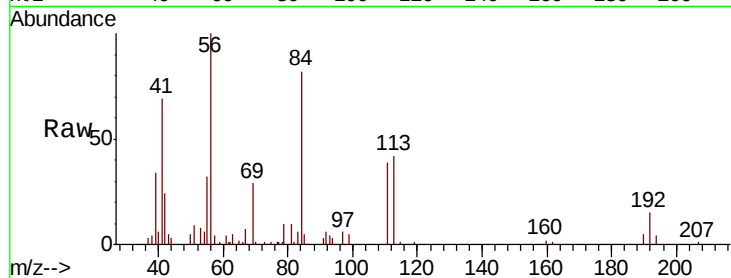
Tgt Ion: 56 Resp: 99402

Ion Ratio Lower Upper

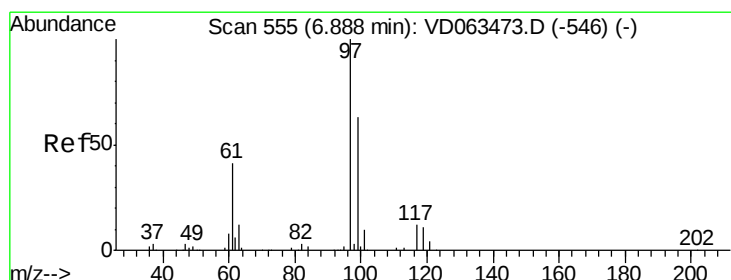
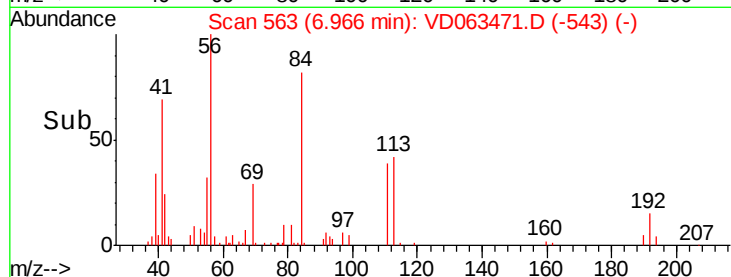
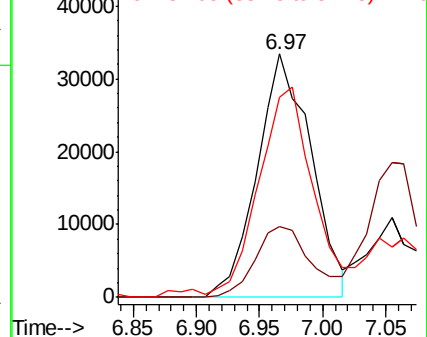
56 100

69 29.0 25.0 37.6

84 82.3 69.7 104.5



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



#32

1,1,1-Trichloroethane

Concen: 9.666 ug/l

RT: 6.89 min Scan# 555

Delta R.T. -0.00 min

Lab File: VD063471.D

Acq: 9 Aug 2019 14:02

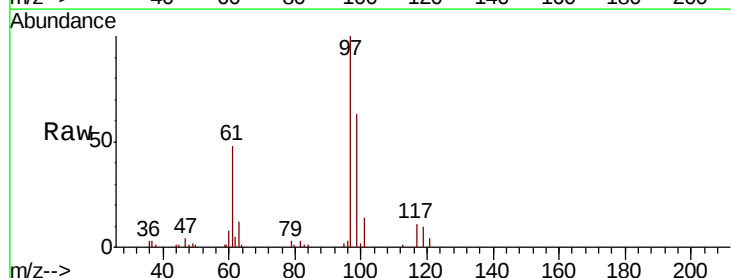
Tgt Ion: 97 Resp: 197262

Ion Ratio Lower Upper

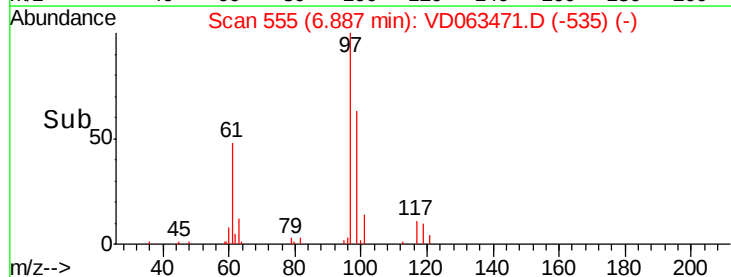
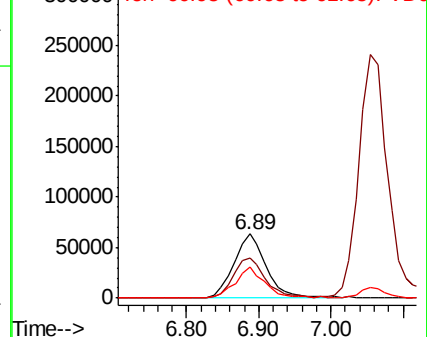
97 100

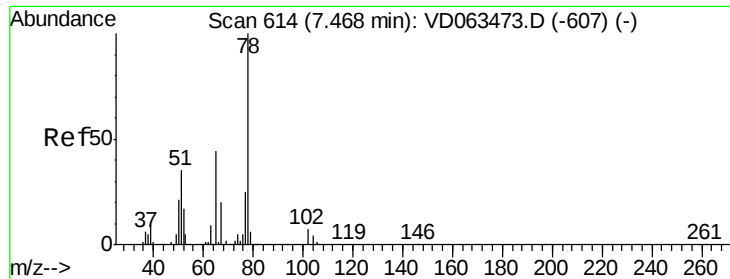
99 63.0 50.2 75.4

61 48.2 33.1 49.7



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

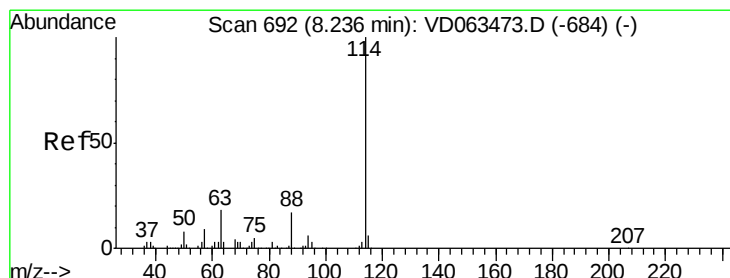
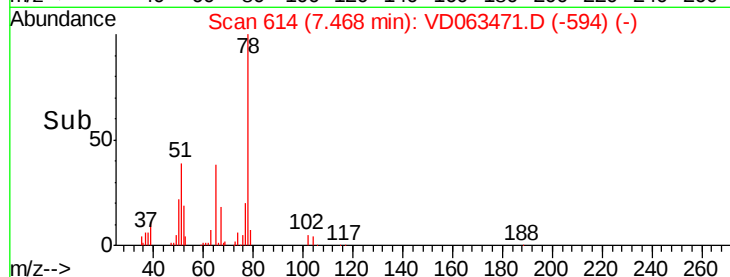
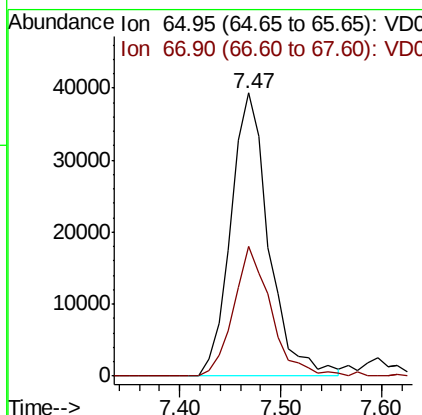
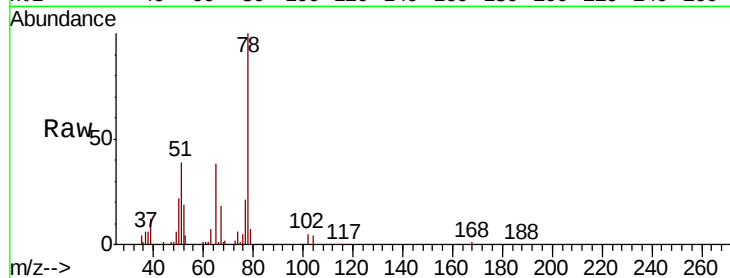




#33
 1,2-Dichloroethane-d4
 Concen: 8.732 ug/l
 RT: 7.47 min Scan# 614
 Delta R.T. -0.00 min
 Lab File: VD063471.D
 Acq: 9 Aug 2019 14:02

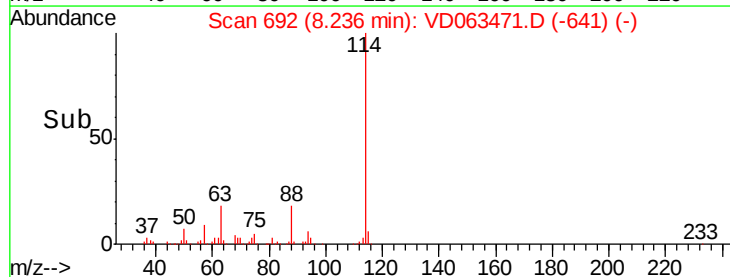
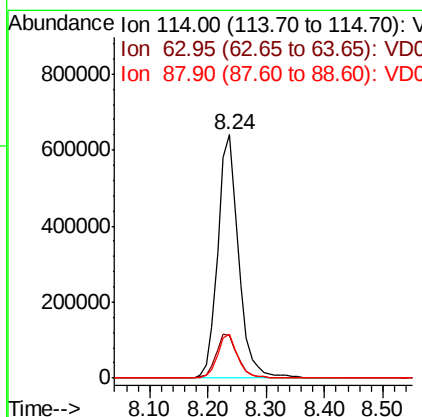
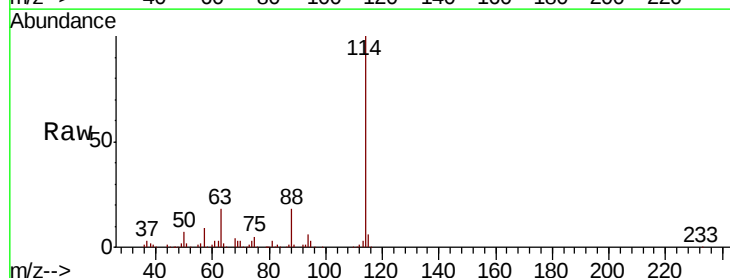
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC010

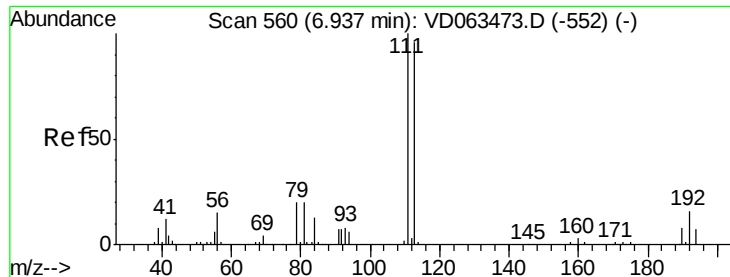
Tgt Ion: 65 Resp: 103041
 Ion Ratio Lower Upper
 65 100
 67 46.0 0.0 89.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.24 min Scan# 692
 Delta R.T. -0.00 min
 Lab File: VD063471.D
 Acq: 9 Aug 2019 14:02

Tgt Ion: 114 Resp: 1588255
 Ion Ratio Lower Upper
 114 100
 63 17.8 0.0 36.2
 88 17.9 0.0 35.0





#35

Dibromofluoromethane

Concen: 8.671 ug/l

RT: 6.94 min Scan# 560

Delta R.T. -0.00 min

Lab File: VD063471.D

Acq: 9 Aug 2019 14:02

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC010

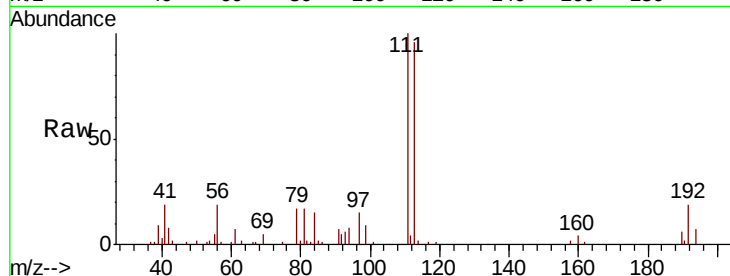
Tgt Ion:113 Resp: 115993

Ion Ratio Lower Upper

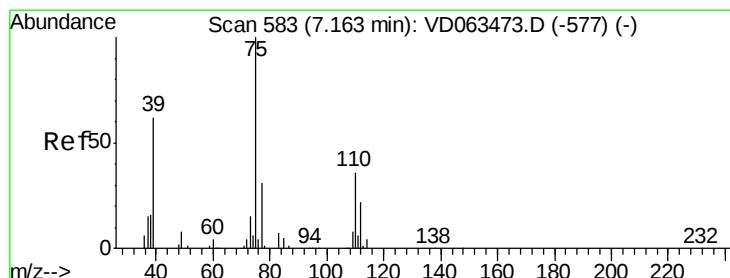
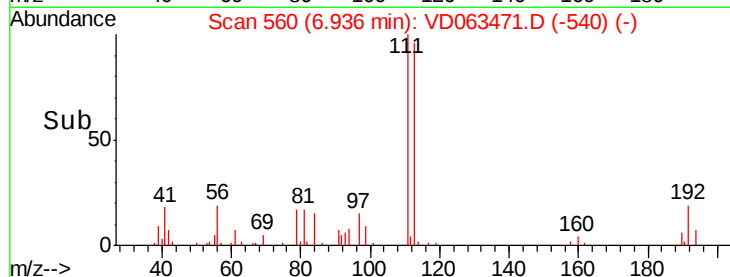
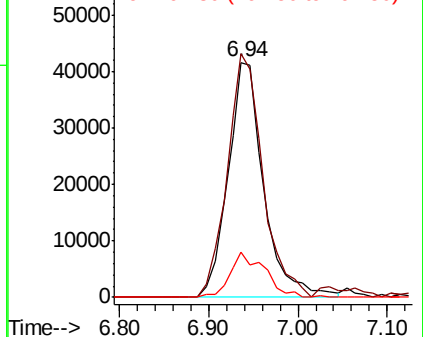
113 100

111 103.8 83.1 124.7

192 19.4 13.1 19.7



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



#36

1,1-Dichloropropene

Concen: 9.288 ug/l

RT: 7.16 min Scan# 583

Delta R.T. -0.00 min

Lab File: VD063471.D

Acq: 9 Aug 2019 14:02

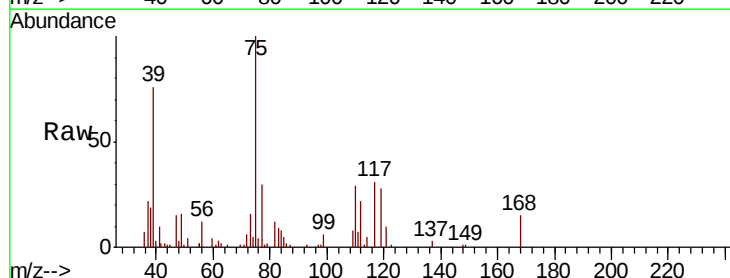
Tgt Ion: 75 Resp: 130411

Ion Ratio Lower Upper

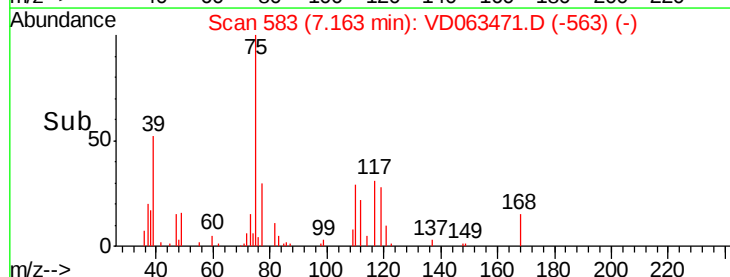
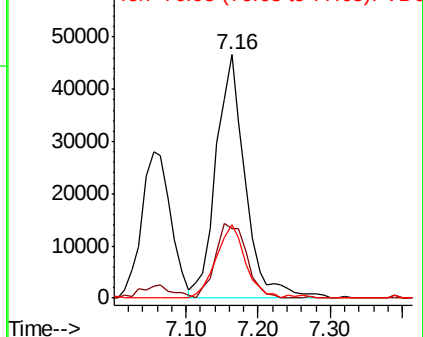
75 100

110 28.5 17.6 52.8

77 29.9 24.3 36.5



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

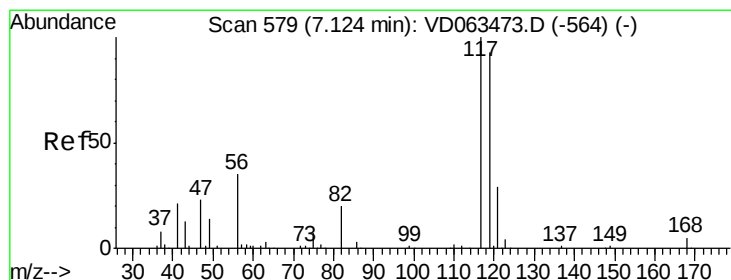
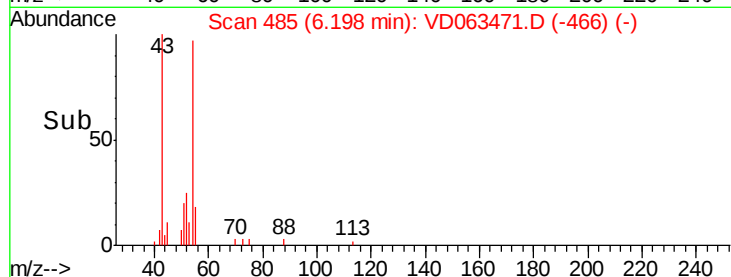
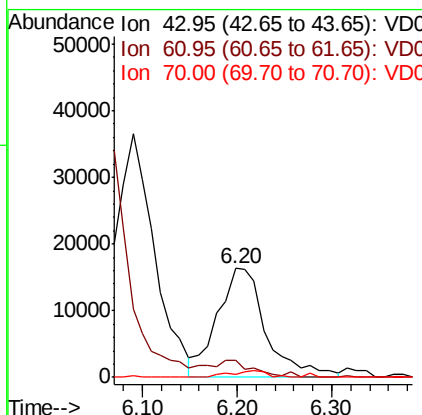
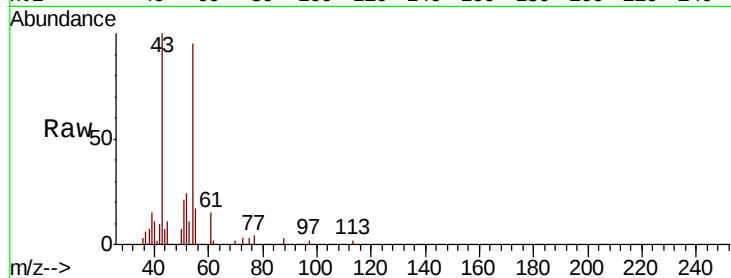




#37
 Ethyl Acetate
 Concen: 9.918 ug/l
 RT: 6.20 min Scan# 485
 Delta R.T. -0.01 min
 Lab File: VD063471.D
 Acq: 9 Aug 2019 14:02

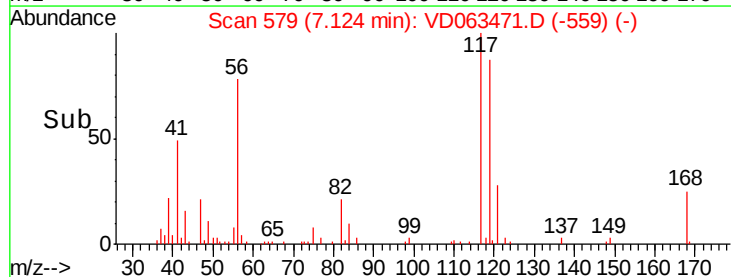
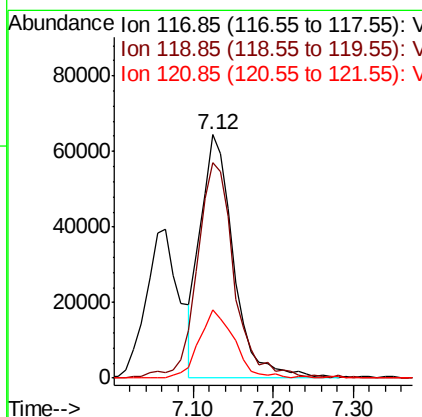
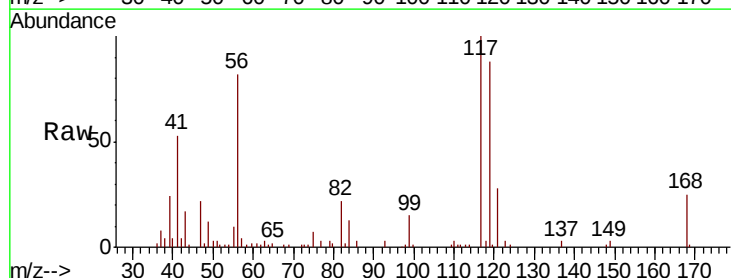
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC010

Tgt Ion: 43 Resp: 58208
 Ion Ratio Lower Upper
 43 100
 61 15.5 9.0 13.6#
 70 2.5 6.9 10.3#



#38
 Carbon Tetrachloride
 Concen: 8.806 ug/l
 RT: 7.12 min Scan# 579
 Delta R.T. -0.00 min
 Lab File: VD063471.D
 Acq: 9 Aug 2019 14:02

Tgt Ion: 117 Resp: 186335
 Ion Ratio Lower Upper
 117 100
 119 88.3 74.2 111.2
 121 28.2 23.1 34.7

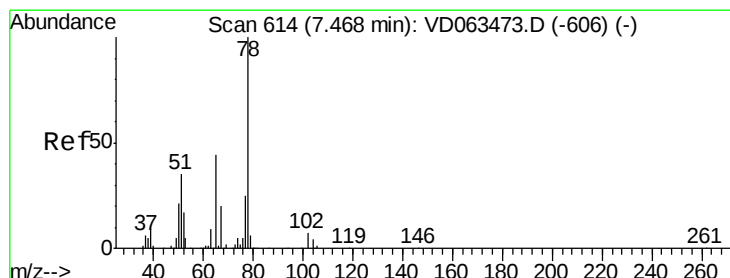
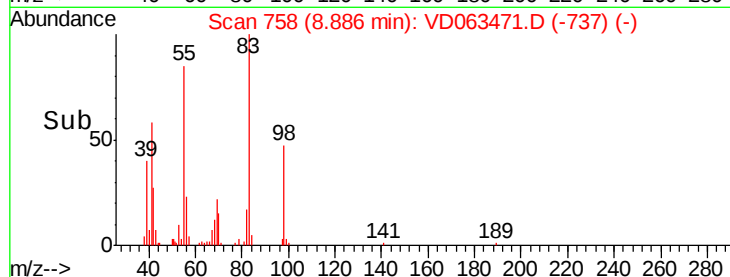
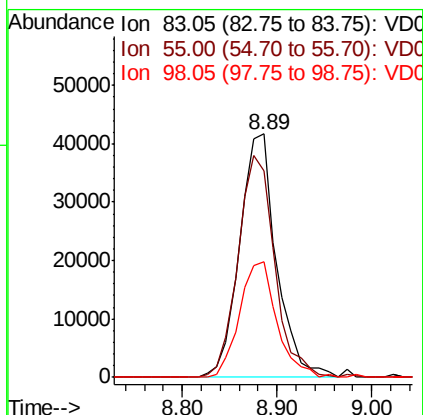
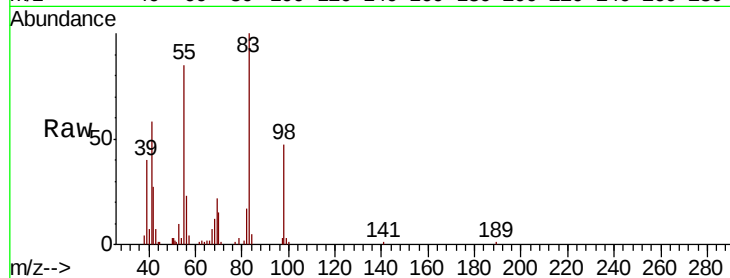




#39
Methylcyclohexane
Concen: 9.417 ug/l
RT: 8.89 min Scan# 758
Delta R.T. 0.01 min
Lab File: VD063471.D
Acq: 9 Aug 2019 14:02

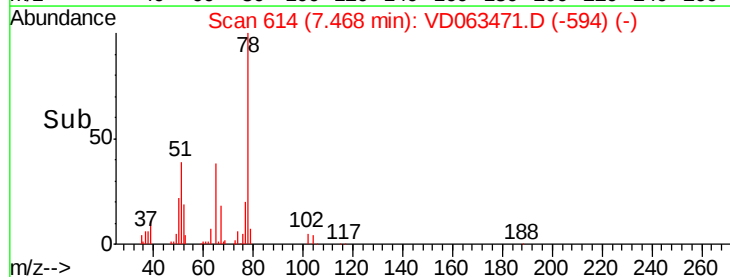
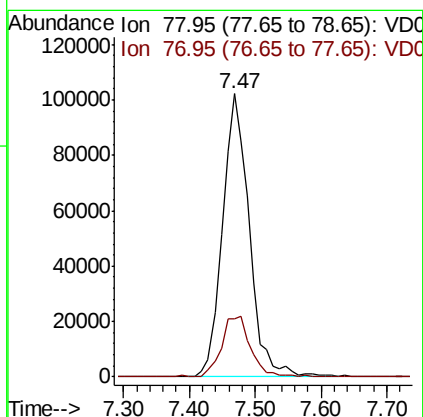
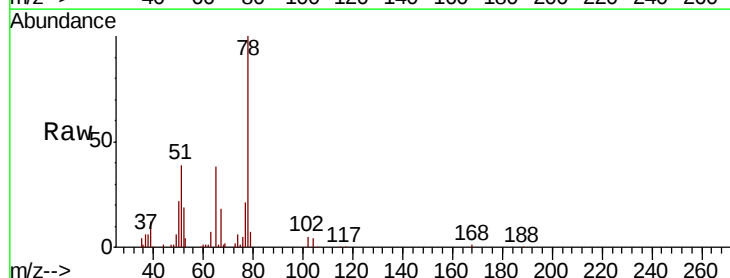
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

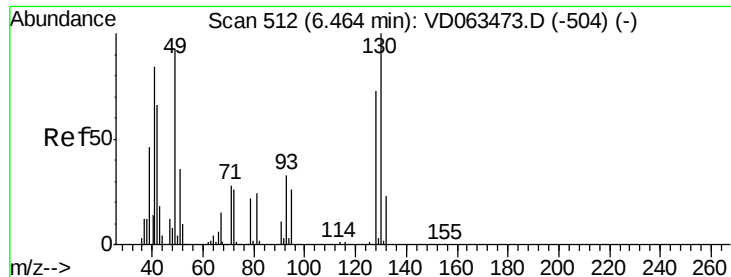
Tgt Ion: 83 Resp: 112429
Ion Ratio Lower Upper
83 100
55 85.0 76.6 114.8
98 47.3 39.4 59.0



#40
Benzene
Concen: 9.361 ug/l
RT: 7.47 min Scan# 614
Delta R.T. -0.00 min
Lab File: VD063471.D
Acq: 9 Aug 2019 14:02

Tgt Ion: 78 Resp: 289235
Ion Ratio Lower Upper
78 100
77 20.7 20.1 30.1





#41

Methacrylonitrile

Concen: 9.419 ug/l

RT: 6.46 min Scan# 512

Delta R.T. -0.00 min

Lab File: VD063471.D

Acq: 9 Aug 2019 14:02

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC010

Tgt Ion: 41 Resp: 69774

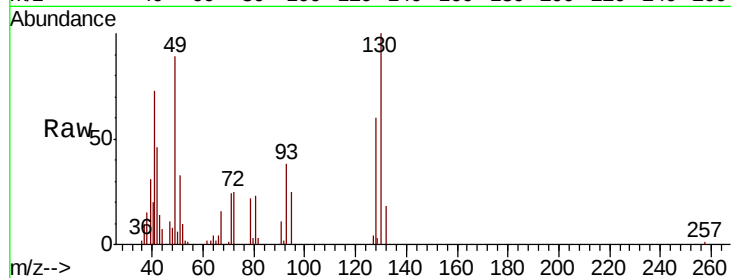
Ion Ratio Lower Upper

41 100

39 42.3 44.6 66.8#

67 21.3 14.4 21.6

52 13.4 9.3 13.9

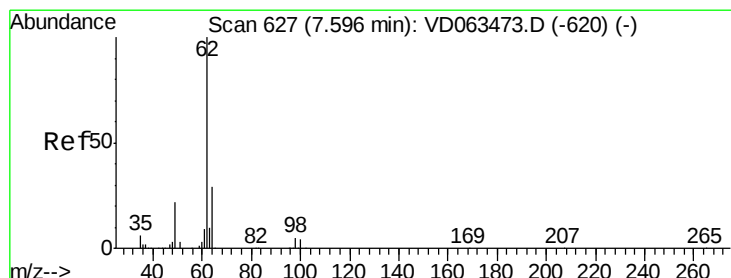
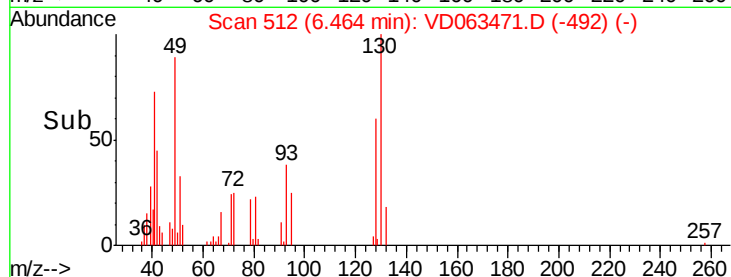
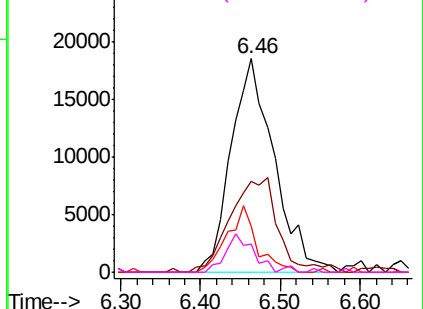


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 8.887 ug/l

RT: 7.60 min Scan# 627

Delta R.T. -0.00 min

Lab File: VD063471.D

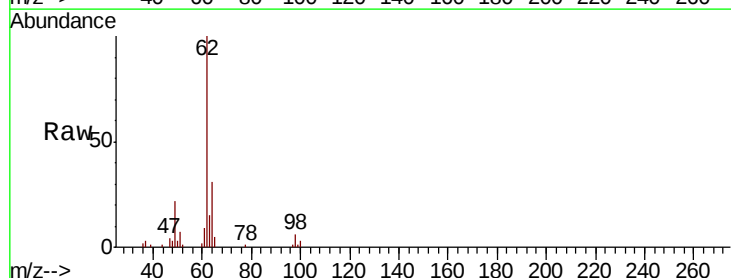
Acq: 9 Aug 2019 14:02

Tgt Ion: 62 Resp: 138077

Ion Ratio Lower Upper

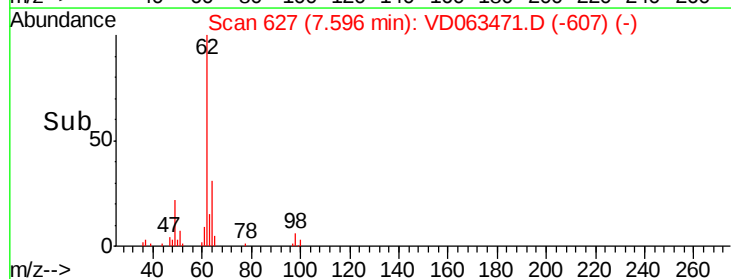
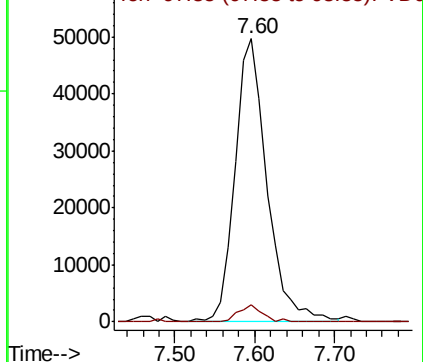
62 100

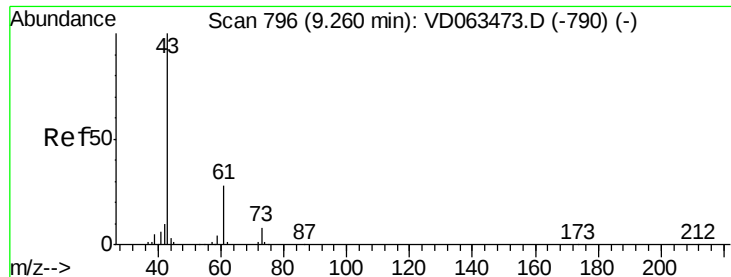
98 6.0 0.0 10.4



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#43

Isopropyl Acetate

Concen: 9.078 ug/l

RT: 9.25 min Scan# 795

Delta R.T. -0.01 min

Lab File: VD063471.D

Acq: 9 Aug 2019 14:02

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC010

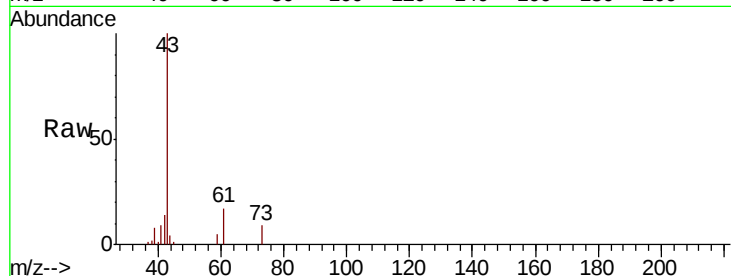
Tgt Ion: 43 Resp: 71534

Ion Ratio Lower Upper

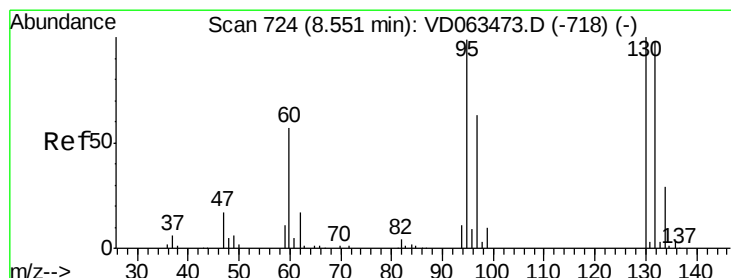
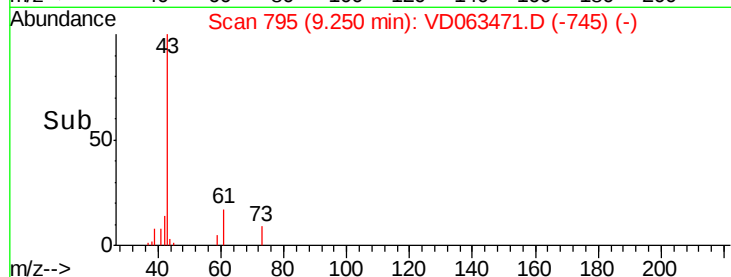
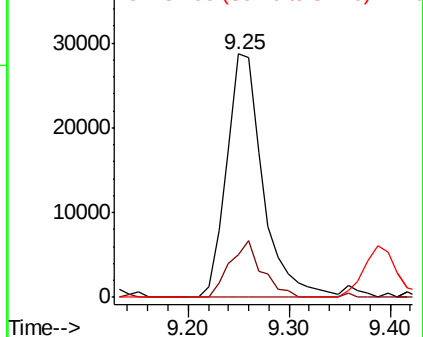
43 100

61 17.4 22.2 33.2#

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: 8.863 ug/l

RT: 8.55 min Scan# 724

Delta R.T. -0.00 min

Lab File: VD063471.D

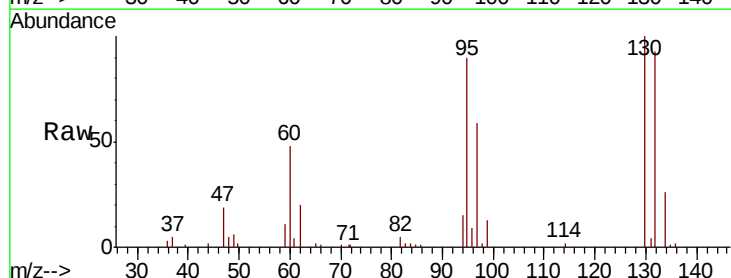
Acq: 9 Aug 2019 14:02

Tgt Ion: 130 Resp: 104703

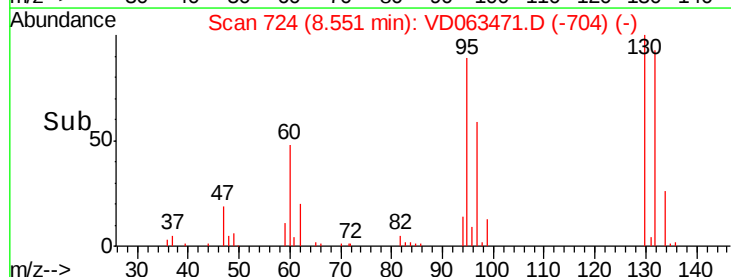
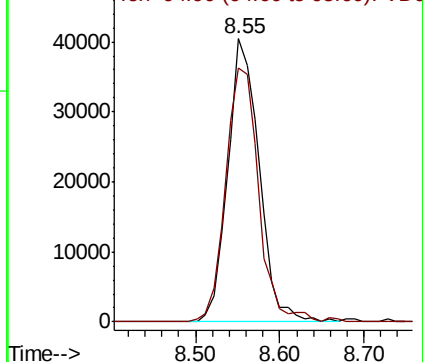
Ion Ratio Lower Upper

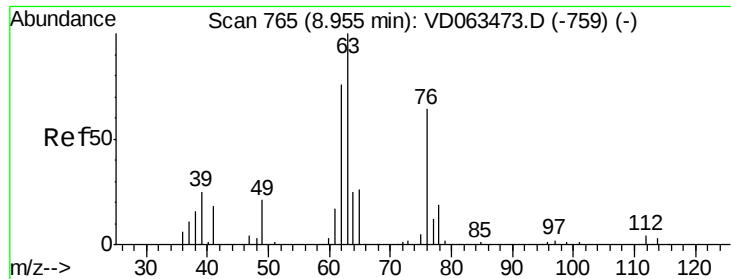
130 100

95 89.9 0.0 198.0



Abundance Ion 129.80 (129.50 to 130.50): VDC
Ion 94.90 (94.60 to 95.60): VDC

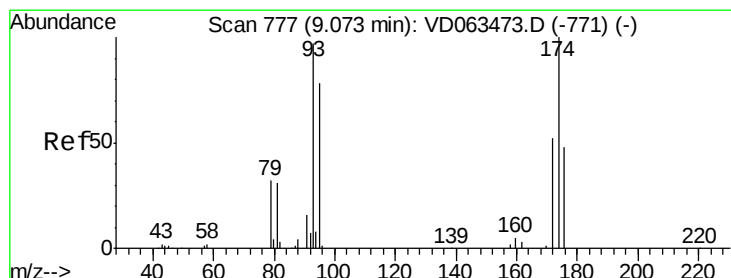
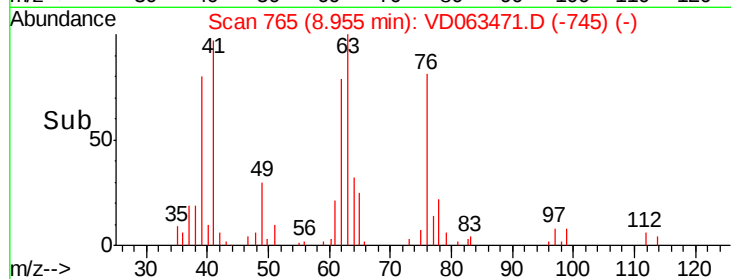
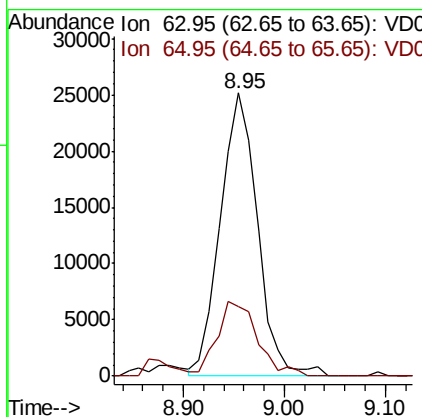
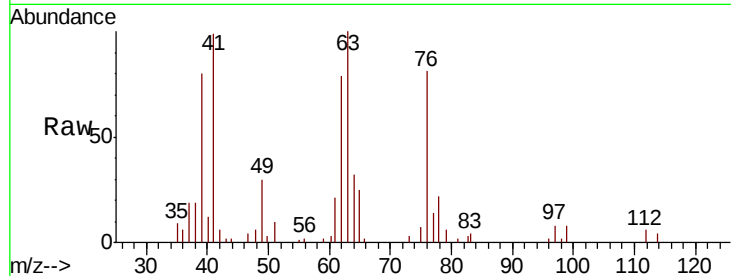




#45
 1,2-Dichloropropane
 Concen: 8.974 ug/l
 RT: 8.95 min Scan# 765
 Delta R.T. -0.00 min
 Lab File: VD063471.D
 Acq: 9 Aug 2019 14:02

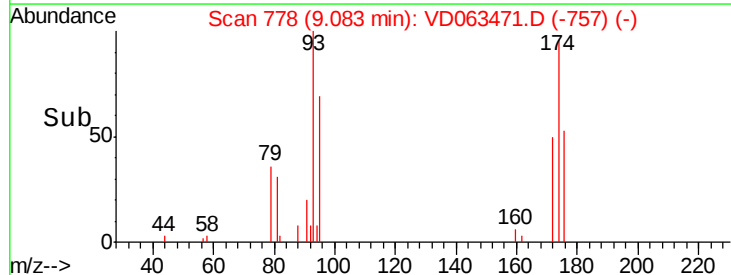
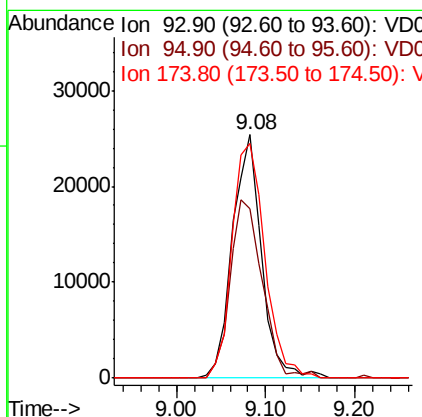
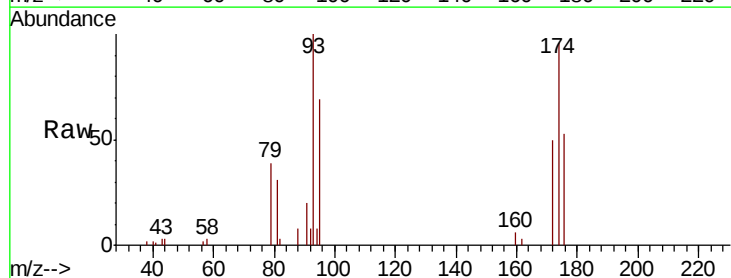
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC010

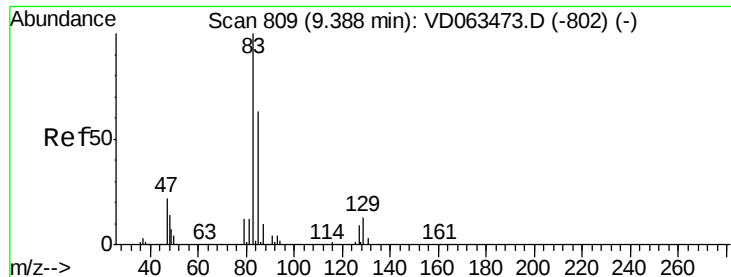
Tgt Ion: 63 Resp: 64575
 Ion Ratio Lower Upper
 63 100
 65 24.6 22.5 33.7



#46
 Dibromomethane
 Concen: 9.461 ug/l
 RT: 9.08 min Scan# 778
 Delta R.T. 0.01 min
 Lab File: VD063471.D
 Acq: 9 Aug 2019 14:02

Tgt Ion: 93 Resp: 58137
 Ion Ratio Lower Upper
 93 100
 95 69.3 64.2 96.2
 174 96.3 82.1 123.1





#47

Bromodichloromethane

Concen: 9.325 ug/l

RT: 9.39 min Scan# 809

Delta R.T. -0.00 min

Lab File: VD063471.D

Acq: 9 Aug 2019 14:02

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC010

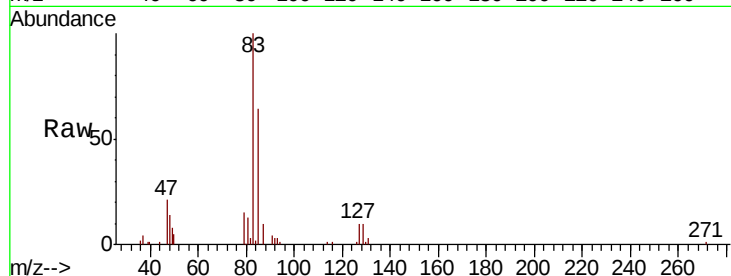
Tgt Ion: 83 Resp: 146976

Ion Ratio Lower Upper

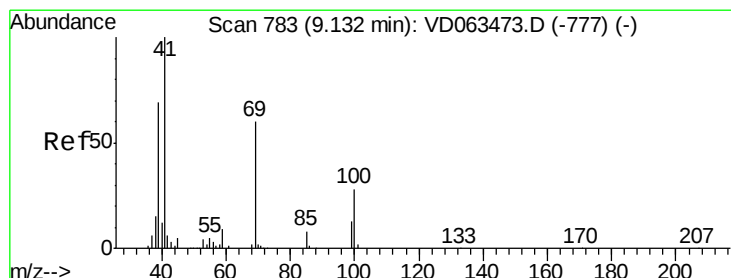
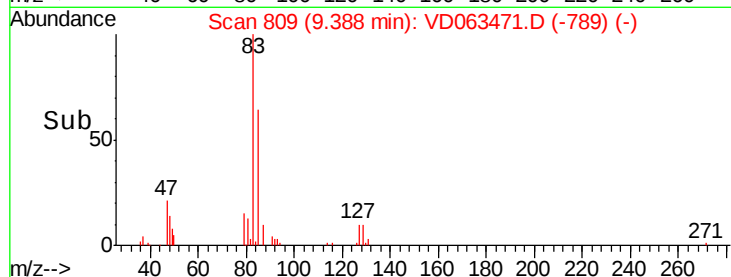
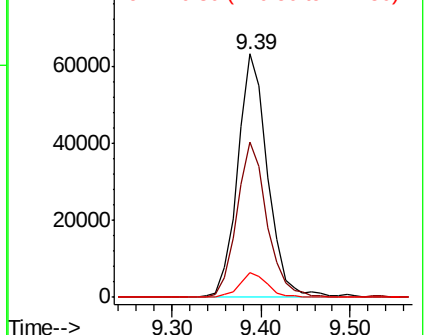
83 100

85 63.8 50.1 75.1

127 10.0 7.6 11.4



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



#48

Methyl methacrylate

Concen: 9.546 ug/l

RT: 9.13 min Scan# 783

Delta R.T. -0.00 min

Lab File: VD063471.D

Acq: 9 Aug 2019 14:02

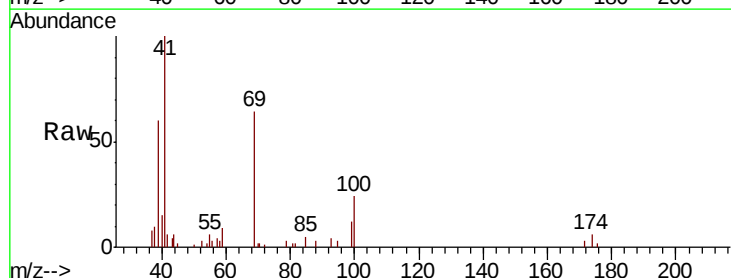
Tgt Ion: 41 Resp: 51014

Ion Ratio Lower Upper

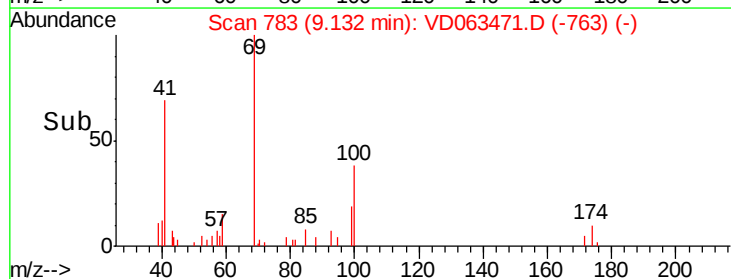
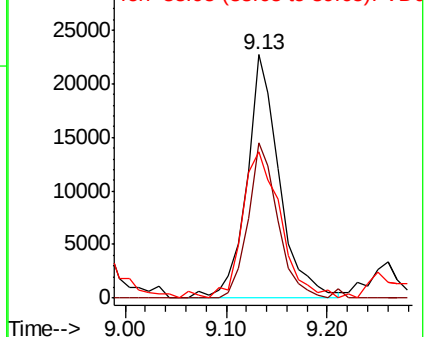
41 100

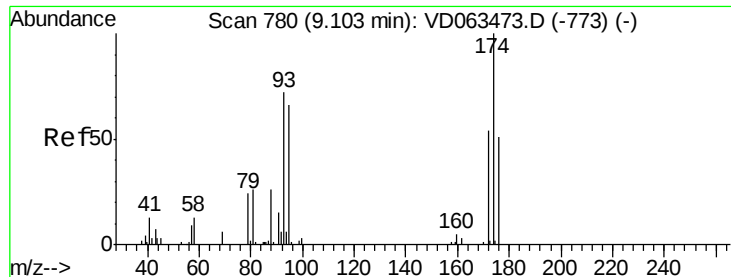
69 63.6 47.6 71.4

39 60.4 55.7 83.5



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

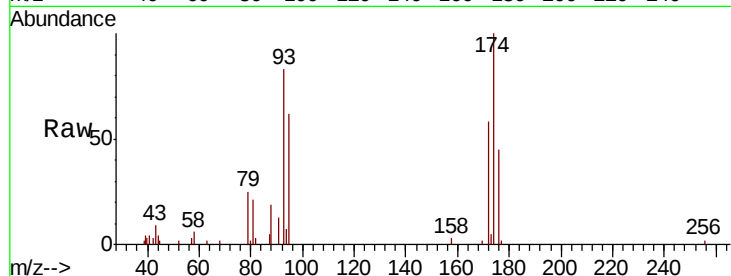




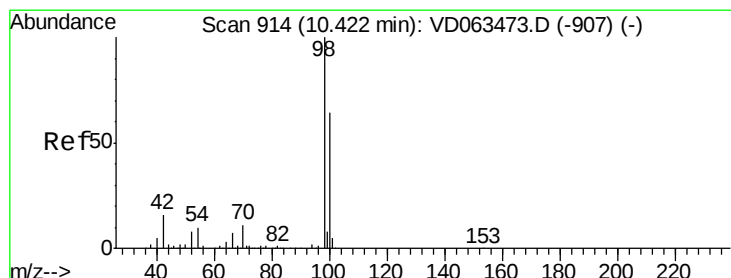
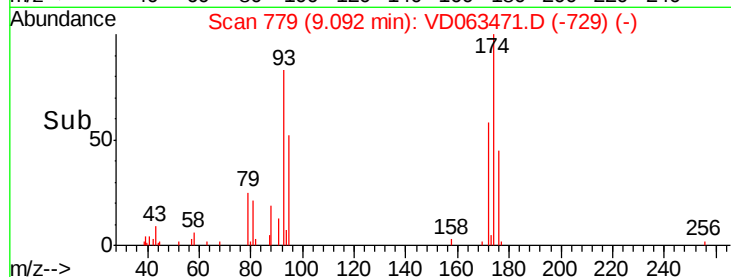
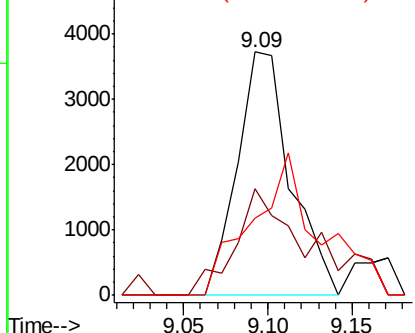
#49
1,4-Dioxane
Concen: 179.800 ug/l
RT: 9.09 min Scan# 779
Delta R.T. -0.01 min
Lab File: VD063471.D
Acq: 9 Aug 2019 14:02

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

Tgt Ion: 88 Resp: 8176
Ion Ratio Lower Upper
88 100
43 43.7 22.9 34.3#
58 31.7 40.1 60.1#

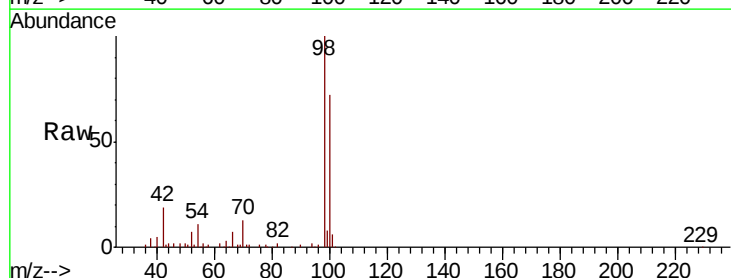


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

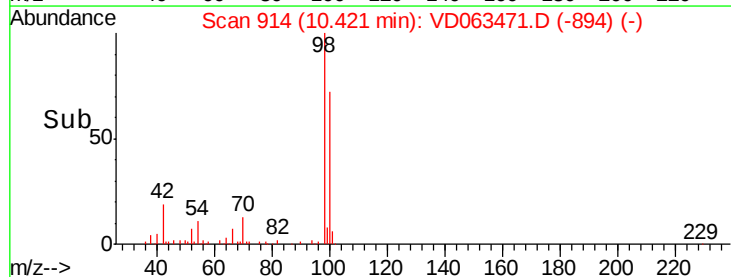
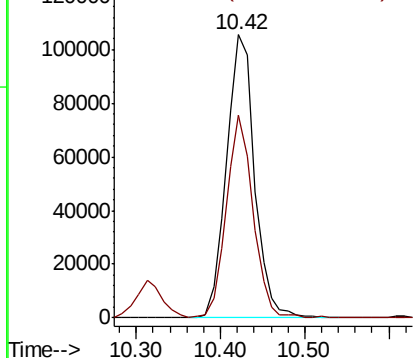


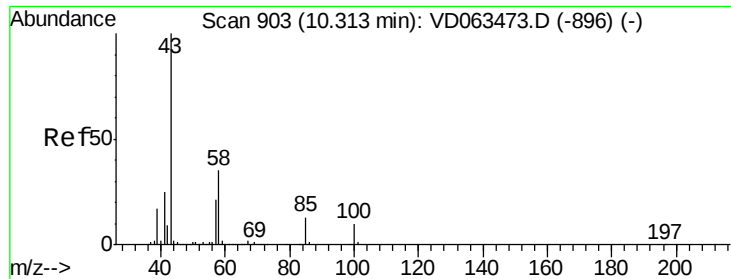
#50
Toluene-d8
Concen: 8.320 ug/l
RT: 10.42 min Scan# 914
Delta R.T. -0.00 min
Lab File: VD063471.D
Acq: 9 Aug 2019 14:02

Tgt Ion: 98 Resp: 244691
Ion Ratio Lower Upper
98 100
100 71.5 51.7 77.5



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

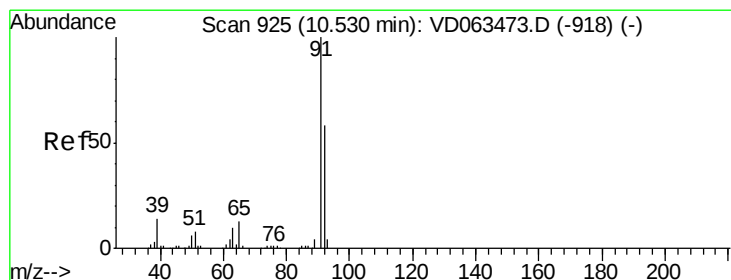
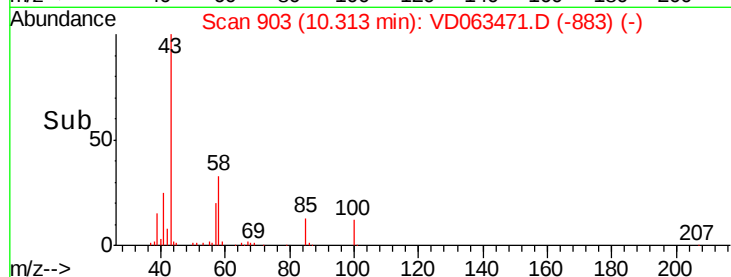
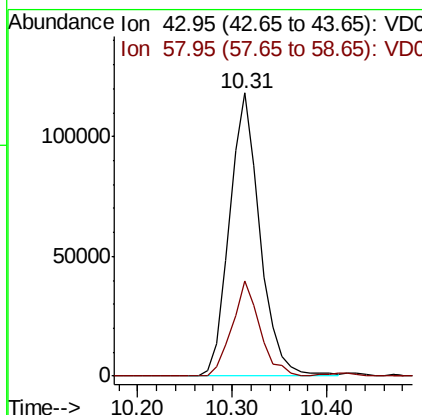
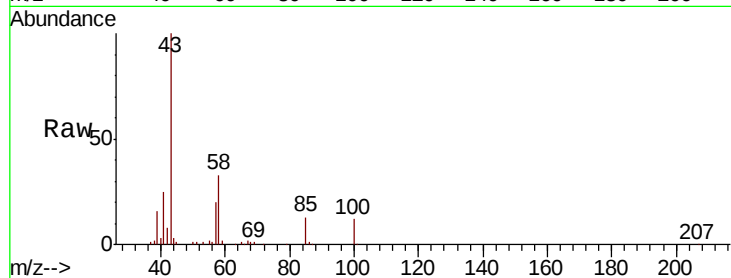




#51
 4-Methyl-2-Pentanone
 Concen: 48.783 ug/l
 RT: 10.31 min Scan# 903
 Delta R.T. -0.00 min
 Lab File: VD063471.D
 Acq: 9 Aug 2019 14:02

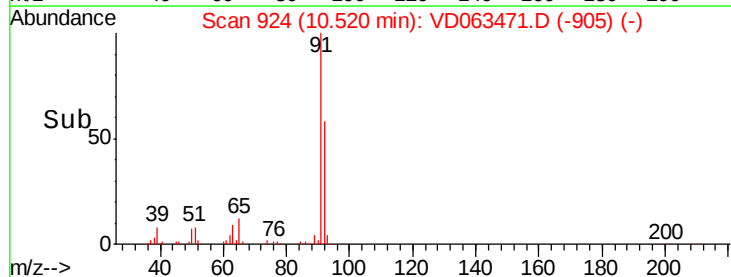
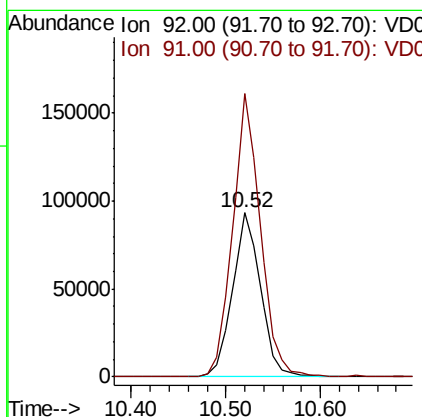
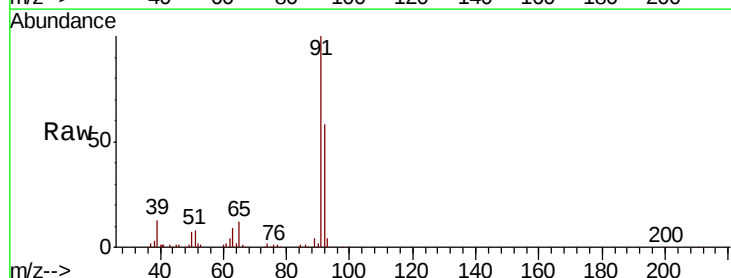
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC010

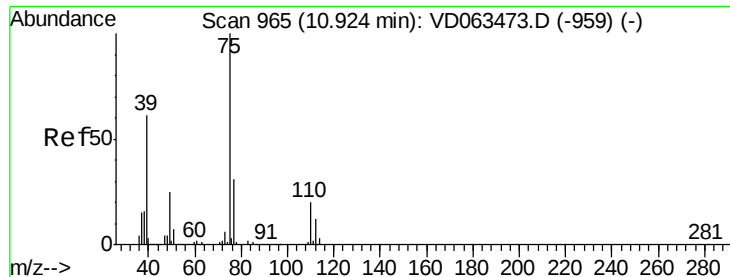
Tgt Ion: 43 Resp: 263036
 Ion Ratio Lower Upper
 43 100
 58 33.5 28.0 42.0



#52
 Toluene
 Concen: 9.627 ug/l
 RT: 10.52 min Scan# 924
 Delta R.T. -0.01 min
 Lab File: VD063471.D
 Acq: 9 Aug 2019 14:02

Tgt Ion: 92 Resp: 191601
 Ion Ratio Lower Upper
 92 100
 91 172.7 137.9 206.9

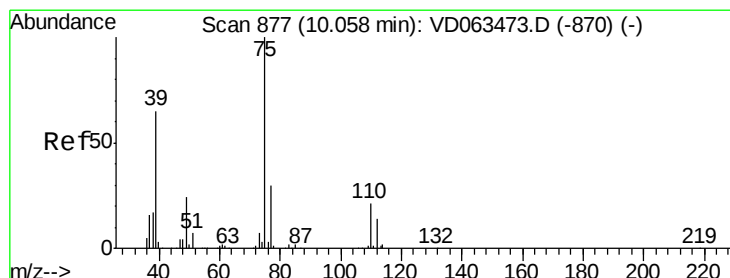
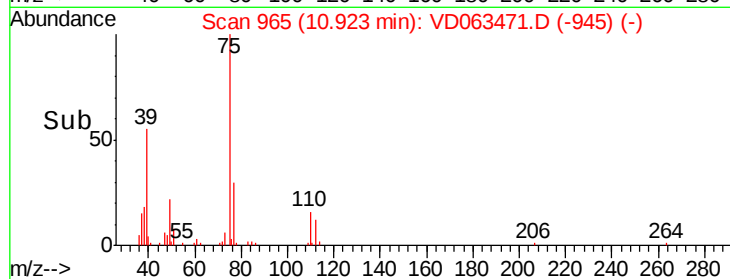
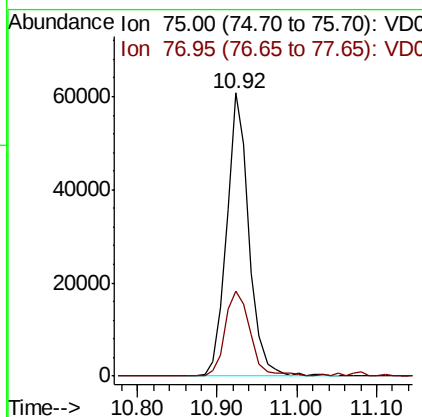
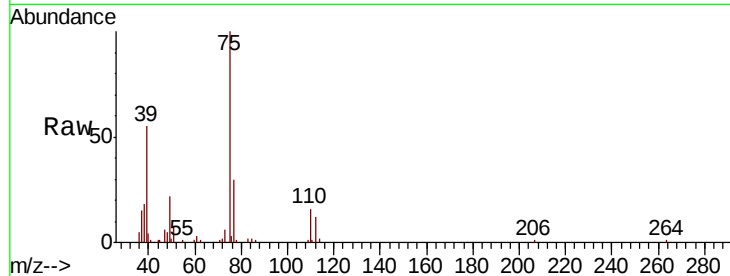




#53
 t-1,3-Dichloropropene
 Concen: 9.250 ug/l
 RT: 10.92 min Scan# 965
 Delta R.T. -0.00 min
 Lab File: VD063471.D
 Acq: 9 Aug 2019 14:02

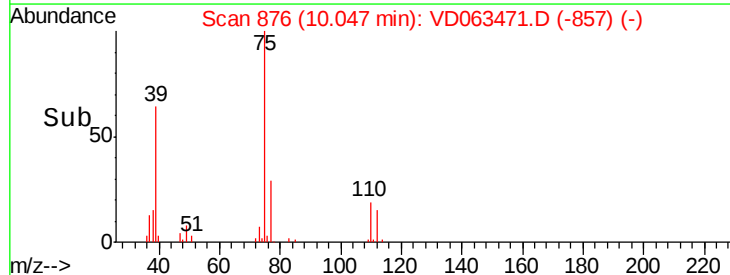
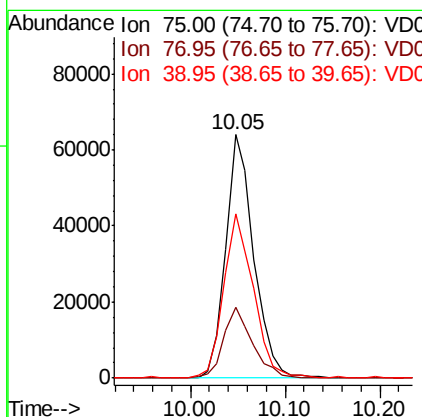
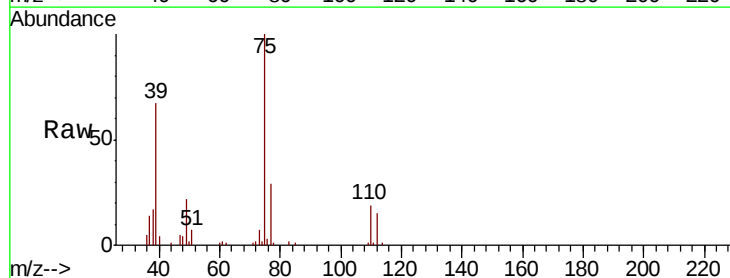
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC010

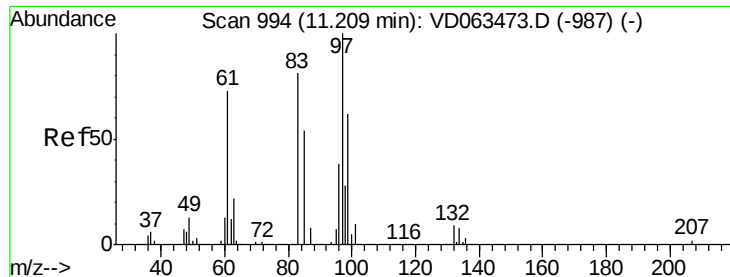
Tgt Ion: 75 Resp: 118986
 Ion Ratio Lower Upper
 75 100
 77 29.8 24.5 36.7



#54
 cis-1,3-Dichloropropene
 Concen: 9.030 ug/l
 RT: 10.05 min Scan# 876
 Delta R.T. -0.01 min
 Lab File: VD063471.D
 Acq: 9 Aug 2019 14:02

Tgt Ion: 75 Resp: 130981
 Ion Ratio Lower Upper
 75 100
 77 29.0 23.7 35.5
 39 67.2 52.2 78.4





#55

1,1,2-Trichloroethane

Concen: 8.981 ug/l

RT: 11.20 min Scan# 993

Delta R.T. -0.01 min

Lab File: VD063471.D

Acq: 9 Aug 2019 14:02

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC010

Tgt Ion: 97 Resp: 60378

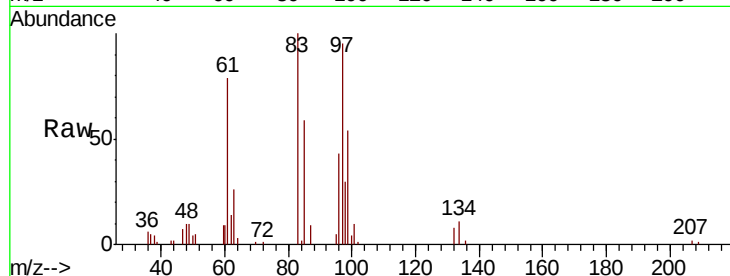
Ion Ratio Lower Upper

97 100

83 105.4 64.7 97.1#

85 62.1 42.9 64.3

99 56.8 49.7 74.5

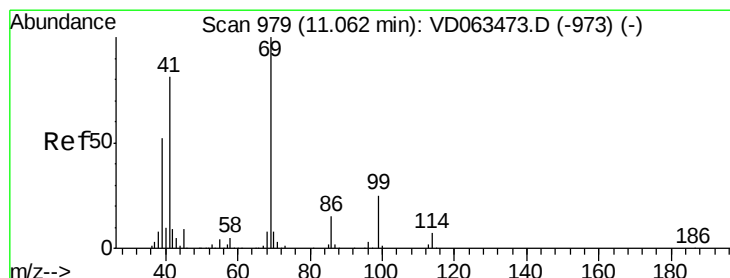
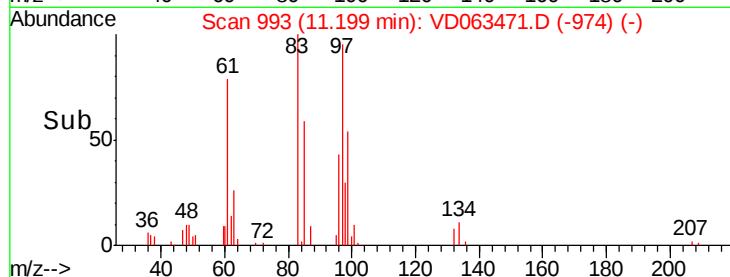
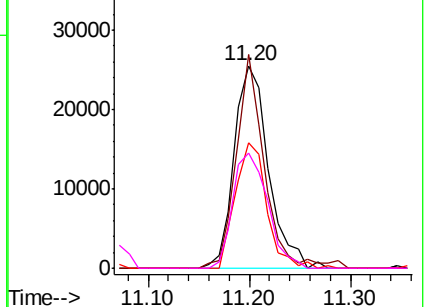


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC



#56

Ethyl methacrylate

Concen: 9.499 ug/l

RT: 11.05 min Scan# 978

Delta R.T. -0.01 min

Lab File: VD063471.D

Acq: 9 Aug 2019 14:02

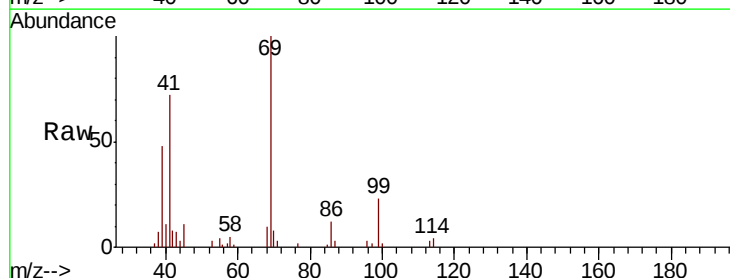
Tgt Ion: 69 Resp: 69314

Ion Ratio Lower Upper

69 100

41 71.6 64.8 97.2

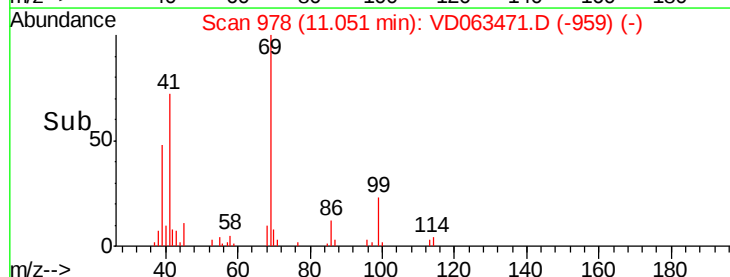
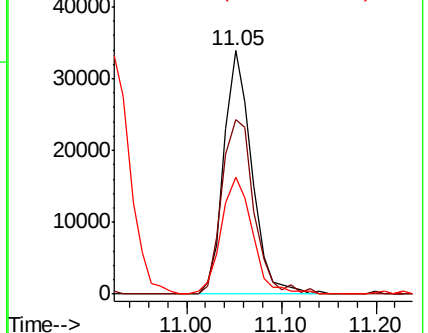
39 48.0 42.4 63.6

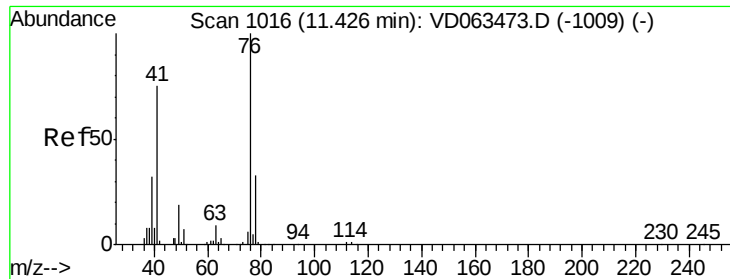


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

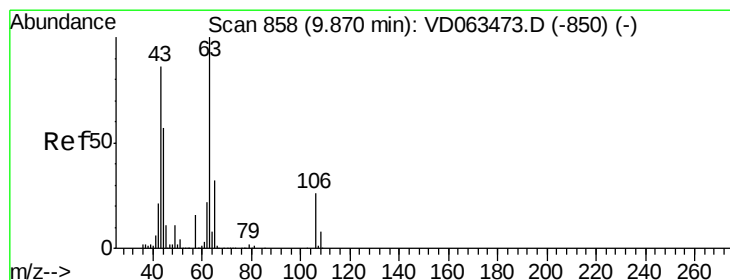
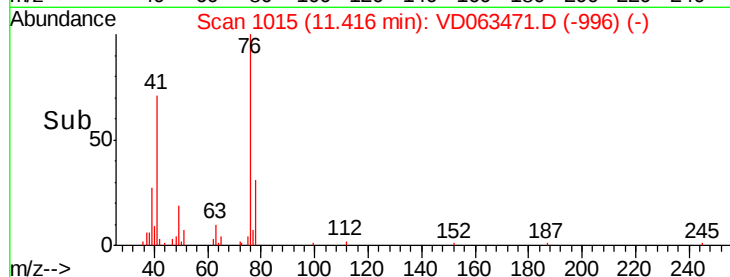
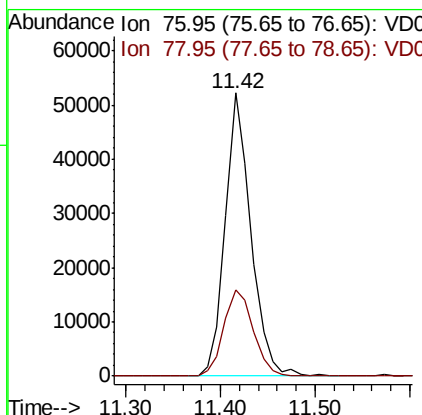
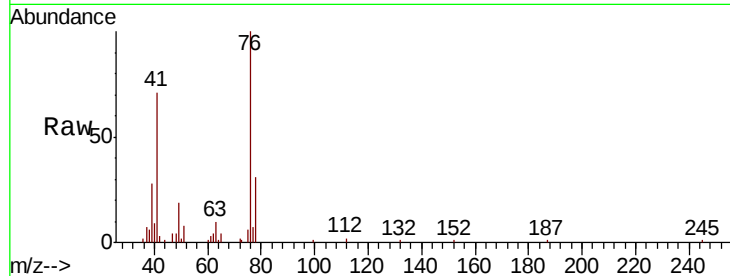




#57
 1,3-Dichloropropane
 Concen: 9.676 ug/l
 RT: 11.42 min Scan# 1015
 Delta R.T. -0.01 min
 Lab File: VD063471.D
 Acq: 9 Aug 2019 14:02

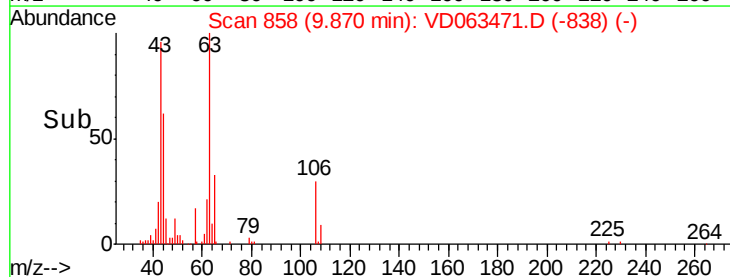
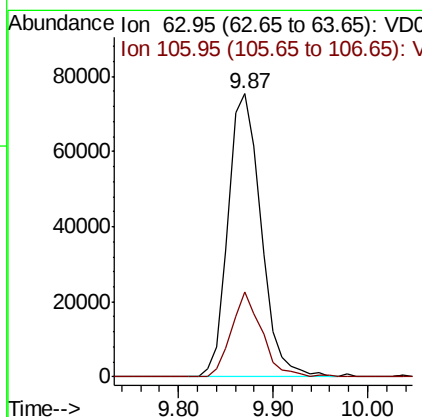
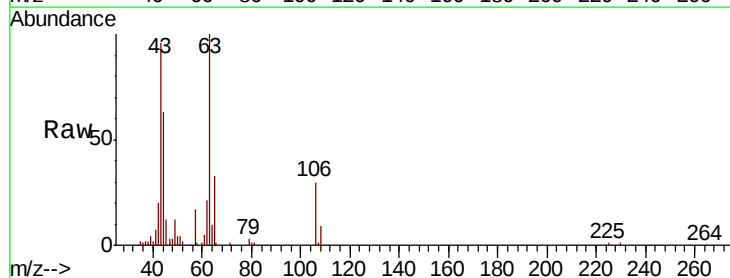
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC010

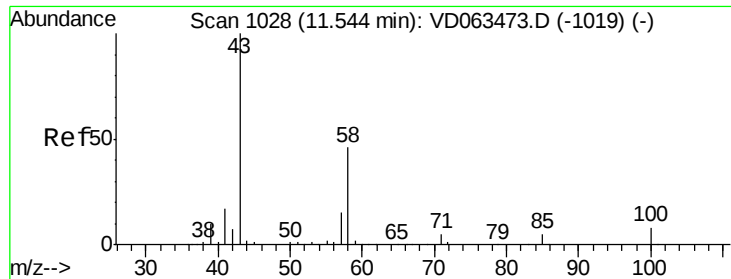
Tgt Ion: 76 Resp: 98322
 Ion Ratio Lower Upper
 76 100
 78 30.7 26.3 39.5



#58
 2-Chloroethyl Vinyl ether
 Concen: 47.165 ug/l
 RT: 9.87 min Scan# 858
 Delta R.T. -0.00 min
 Lab File: VD063471.D
 Acq: 9 Aug 2019 14:02

Tgt Ion: 63 Resp: 181688
 Ion Ratio Lower Upper
 63 100
 106 30.2 20.8 31.2

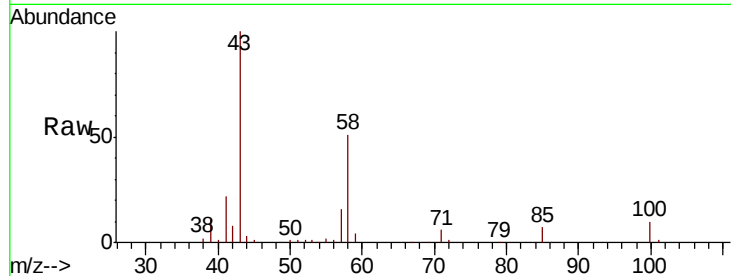




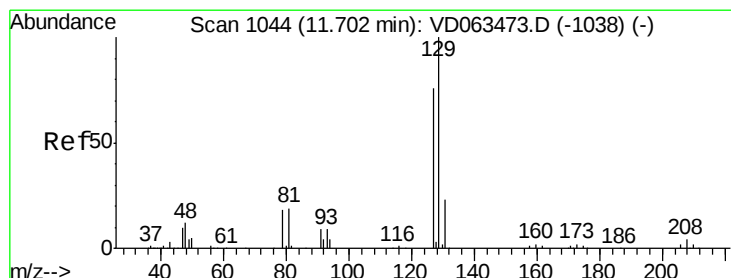
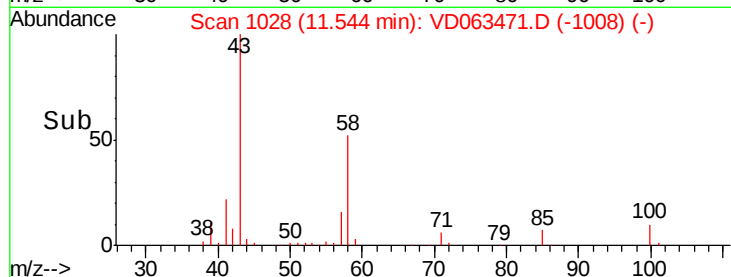
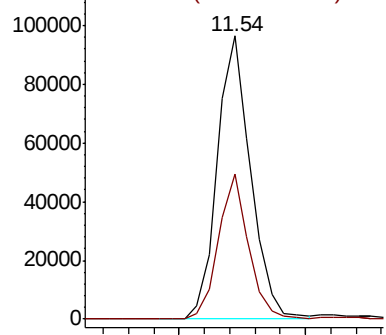
#59
2-Hexanone
Concen: 45.225 ug/l
RT: 11.54 min Scan# 1028
Delta R.T. -0.00 min
Lab File: VD063471.D
Acq: 9 Aug 2019 14:02

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

Tgt Ion: 43 Resp: 177430
Ion Ratio Lower Upper
43 100
58 51.5 23.1 69.2

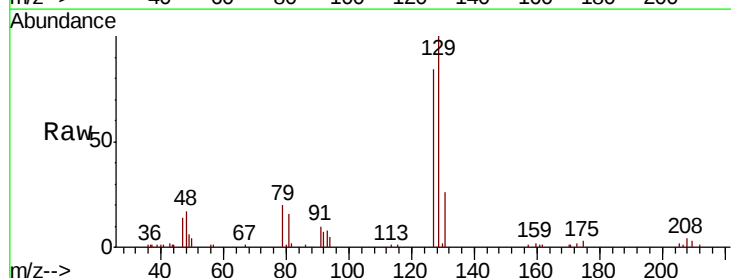


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

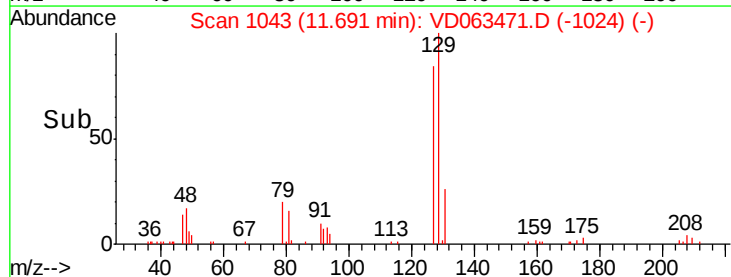
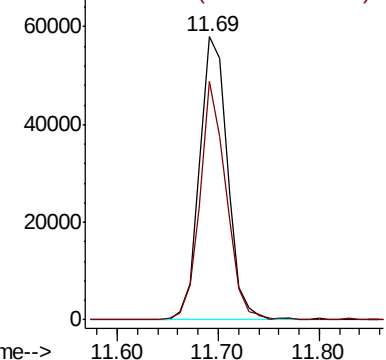


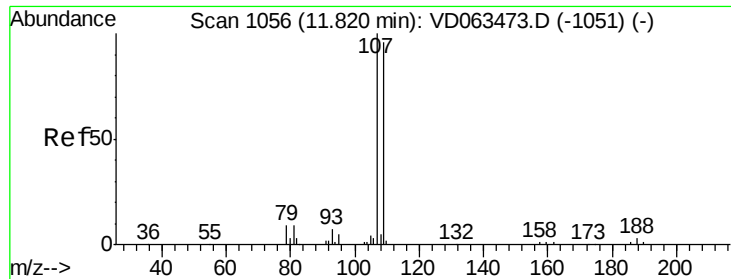
#60
Dibromochloromethane
Concen: 9.093 ug/l
RT: 11.69 min Scan# 1043
Delta R.T. -0.01 min
Lab File: VD063471.D
Acq: 9 Aug 2019 14:02

Tgt Ion: 129 Resp: 111234
Ion Ratio Lower Upper
129 100
127 84.3 37.8 113.4



Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V

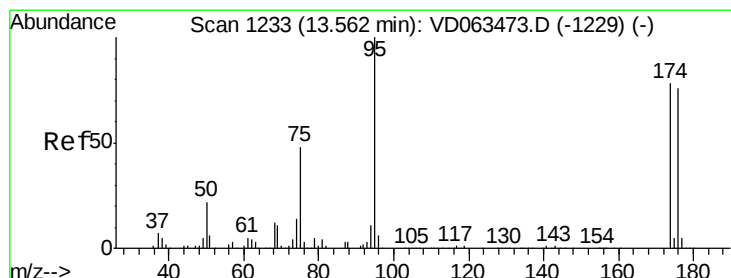
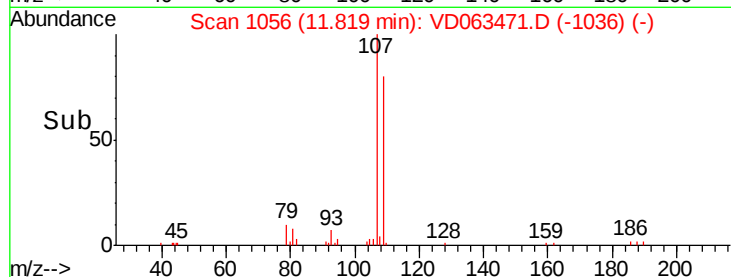
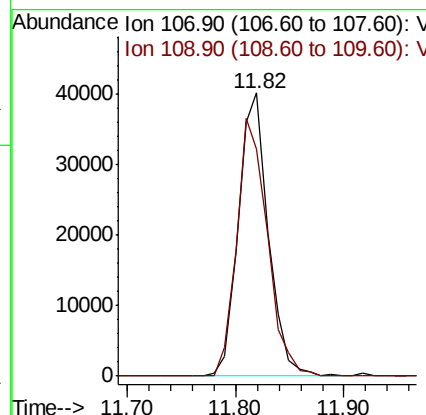
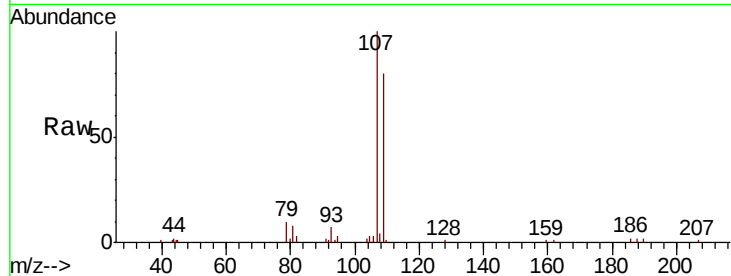




#61
 1,2-Dibromoethane
 Concen: 9.447 ug/l
 RT: 11.82 min Scan# 1056
 Delta R.T. -0.00 min
 Lab File: VD063471.D
 Acq: 9 Aug 2019 14:02

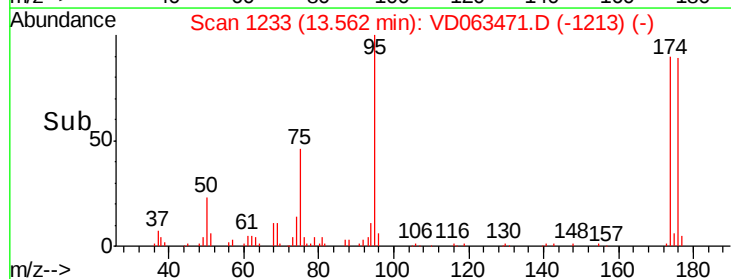
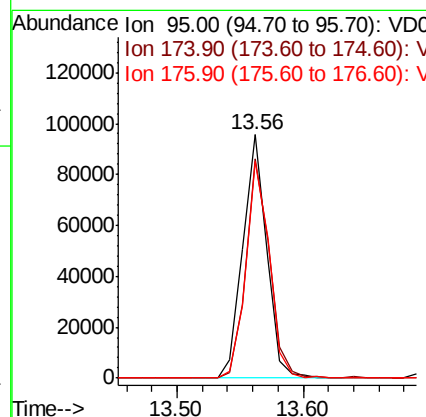
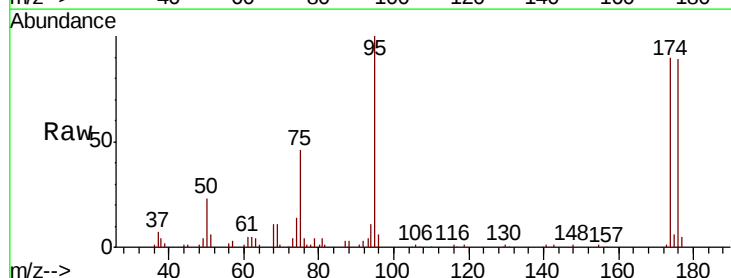
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC010

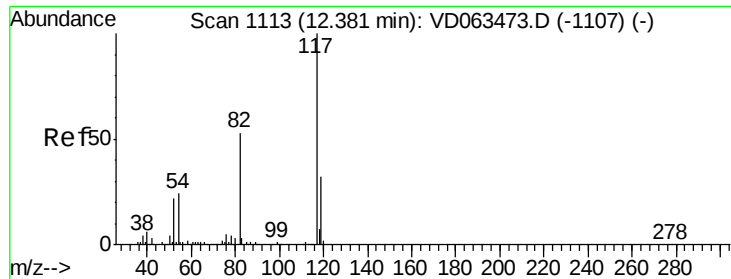
Tgt Ion: 107 Resp: 76881
 Ion Ratio Lower Upper
 107 100
 109 80.4 76.8 115.2



#62
 4-Bromofluorobenzene
 Concen: 9.316 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. -0.00 min
 Lab File: VD063471.D
 Acq: 9 Aug 2019 14:02

Tgt Ion: 95 Resp: 124180
 Ion Ratio Lower Upper
 95 100
 174 90.1 0.0 155.4
 176 88.8 0.0 152.4

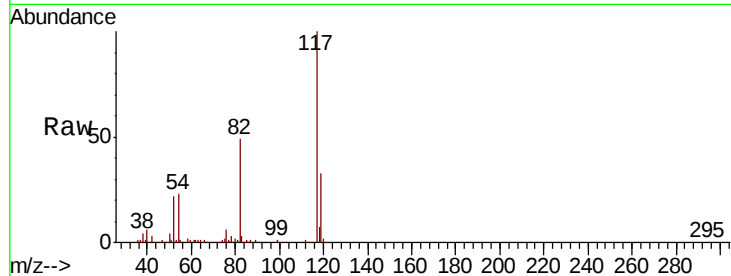




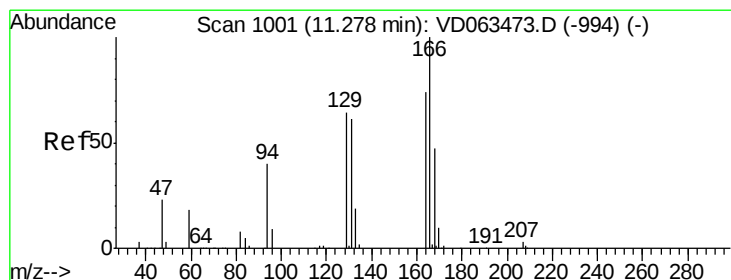
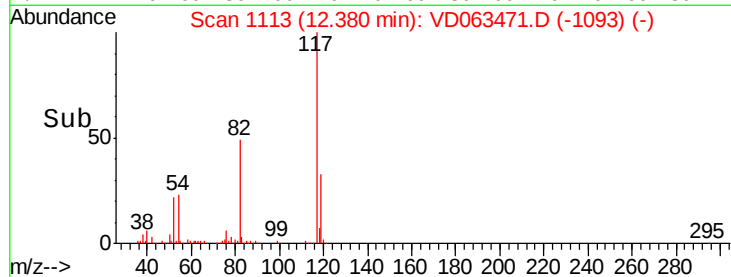
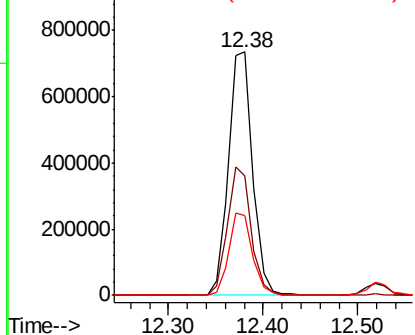
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VD063471.D
Acq: 9 Aug 2019 14:02

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

Tgt Ion:117 Resp: 1301434
Ion Ratio Lower Upper
117 100
82 48.9 42.0 63.0
119 33.0 25.4 38.0

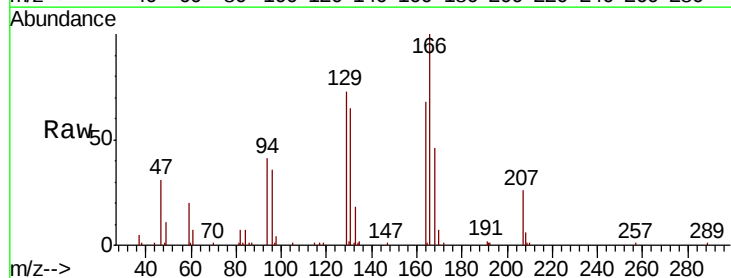


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

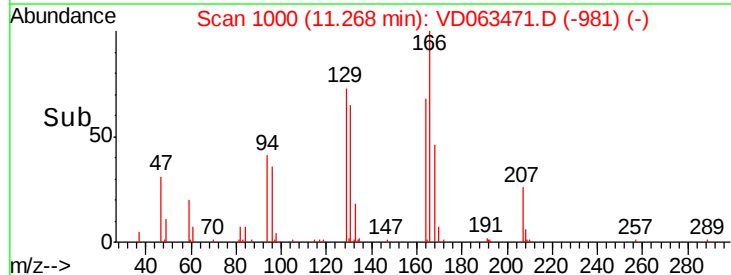
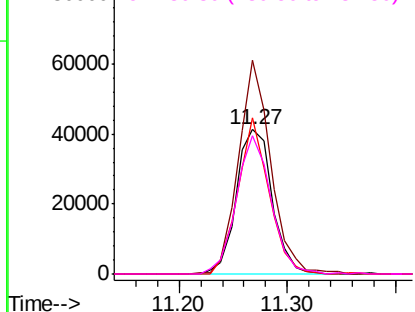


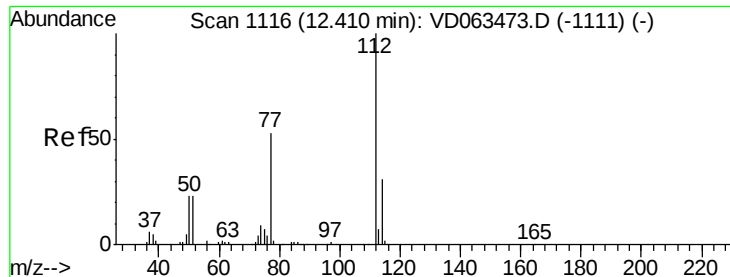
#64
Tetrachloroethene
Concen: 9.430 ug/l
RT: 11.27 min Scan# 1000
Delta R.T. -0.01 min
Lab File: VD063471.D
Acq: 9 Aug 2019 14:02

Tgt Ion:164 Resp: 94740
Ion Ratio Lower Upper
164 100
166 147.8 108.6 163.0
129 107.7 69.0 103.6#
131 95.7 66.6 99.8



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

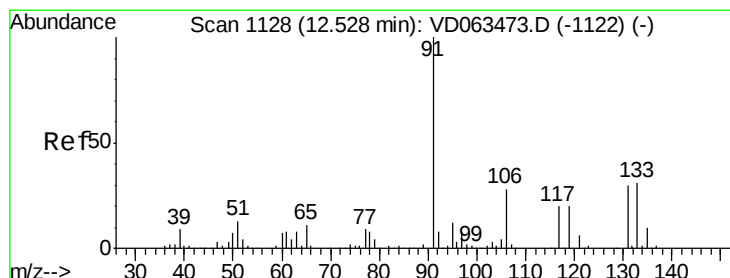
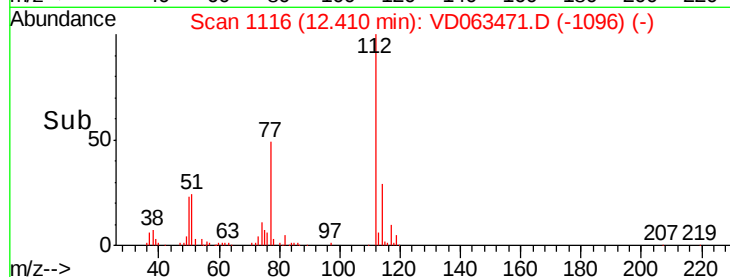
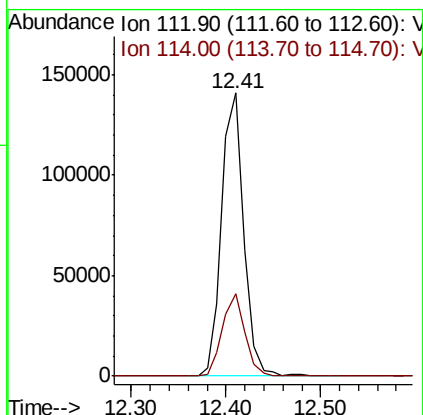
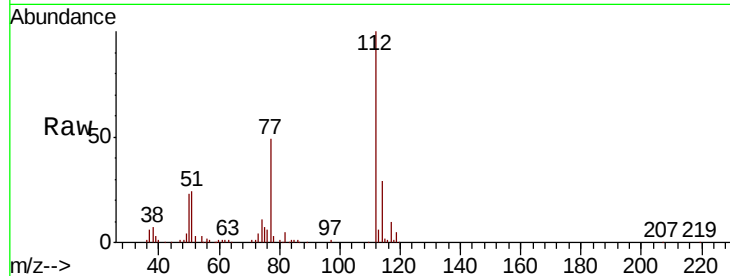




#65
Chlorobenzene
Concen: 9.344 ug/l
RT: 12.41 min Scan# 1116
Delta R.T. -0.00 min
Lab File: VD063471.D
Acq: 9 Aug 2019 14:02

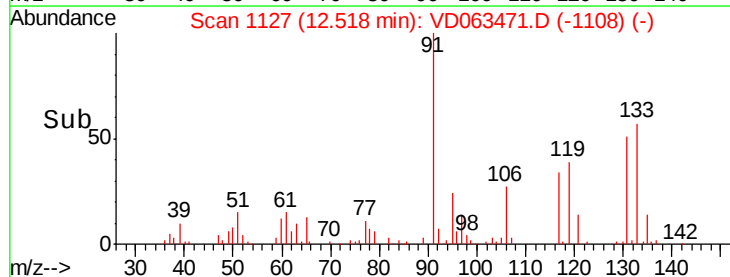
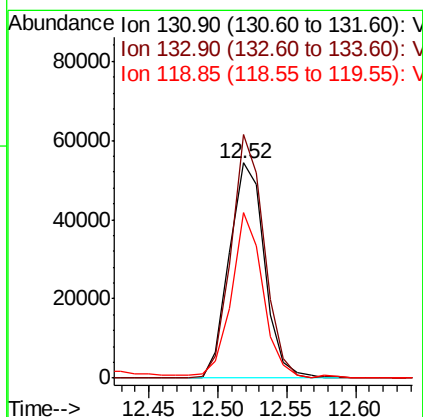
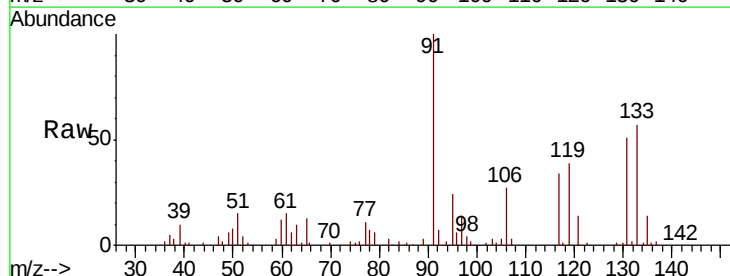
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

Tgt Ion:112 Resp: 227915
Ion Ratio Lower Upper
112 100
114 29.3 25.1 37.7



#66
1,1,1,2-Tetrachloroethane
Concen: 9.030 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. -0.01 min
Lab File: VD063471.D
Acq: 9 Aug 2019 14:02

Tgt Ion:131 Resp: 96936
Ion Ratio Lower Upper
131 100
133 113.1 51.1 153.3
119 76.7 33.1 99.3

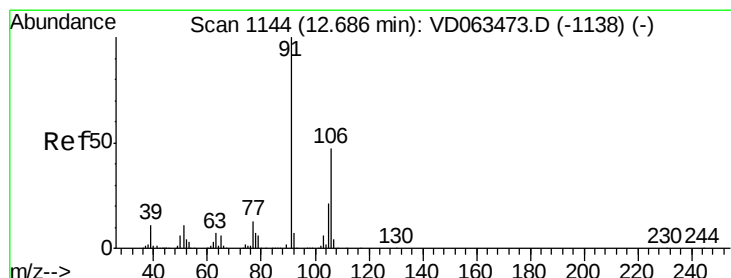
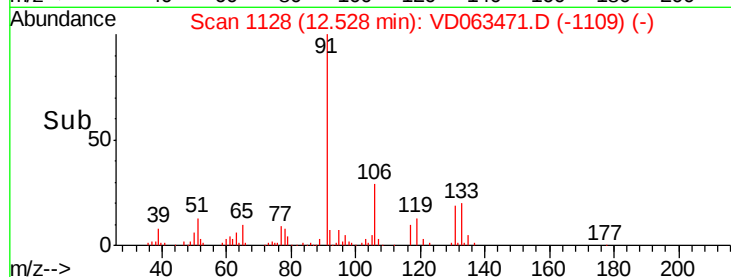
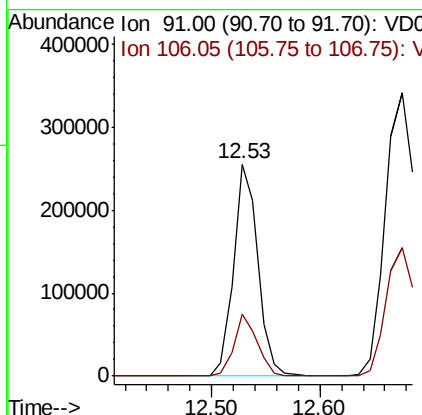
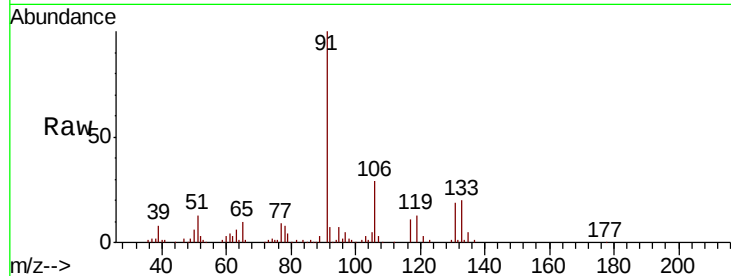




#67
Ethyl Benzene
Concen: 9.393 ug/l
RT: 12.53 min Scan# 1128
Delta R.T. -0.01 min
Lab File: VD063471.D
Acq: 9 Aug 2019 14:02

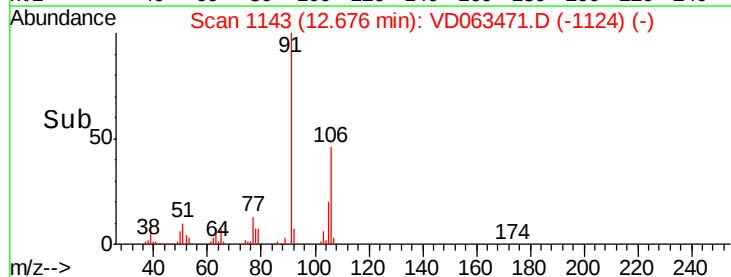
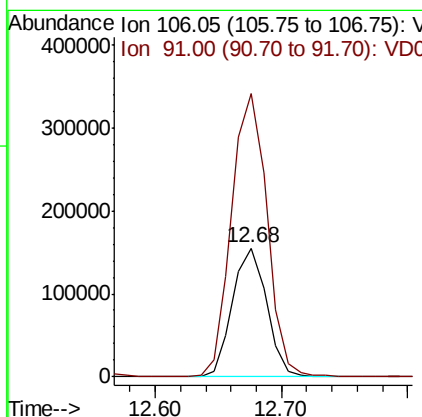
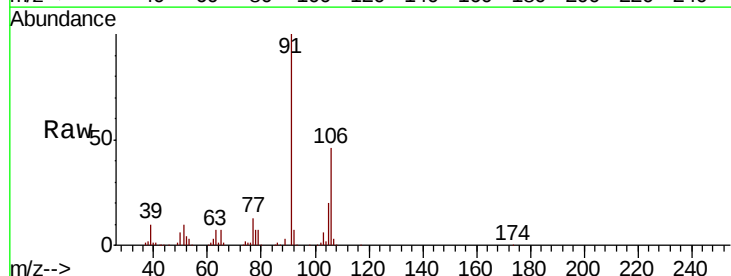
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

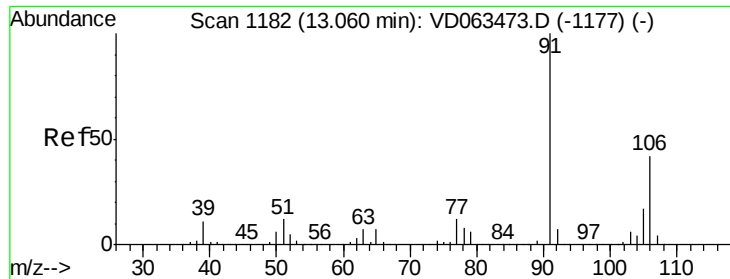
Tgt Ion: 91 Resp: 398355
Ion Ratio Lower Upper
91 100
106 29.2 23.1 34.7



#68
m/p-Xylenes
Concen: 19.650 ug/l
RT: 12.68 min Scan# 1143
Delta R.T. -0.01 min
Lab File: VD063471.D
Acq: 9 Aug 2019 14:02

Tgt Ion: 106 Resp: 292796
Ion Ratio Lower Upper
106 100
91 219.5 171.8 257.8

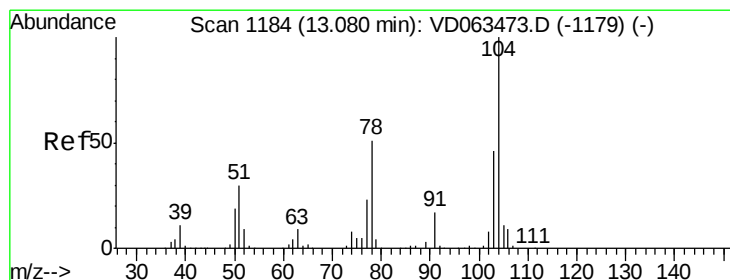
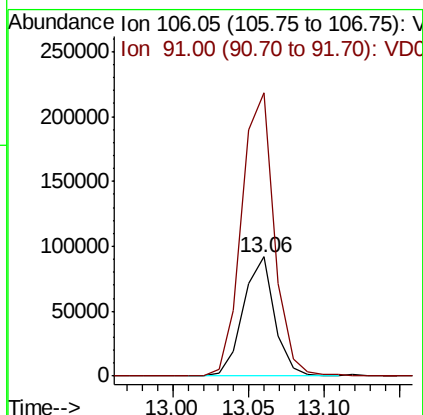
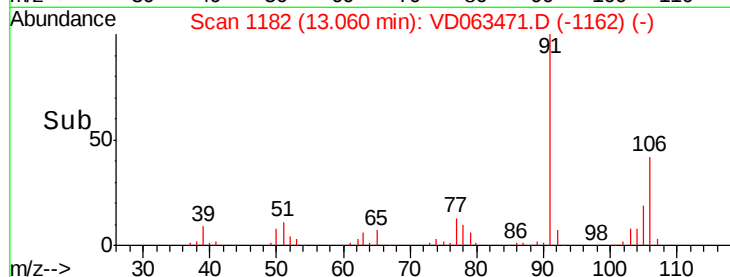
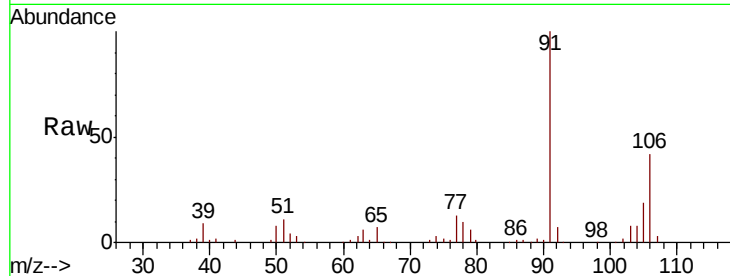




#69
o-Xylene
Concen: 9.233 ug/l
RT: 13.06 min Scan# 1182
Delta R.T. -0.00 min
Lab File: VD063471.D
Acq: 9 Aug 2019 14:02

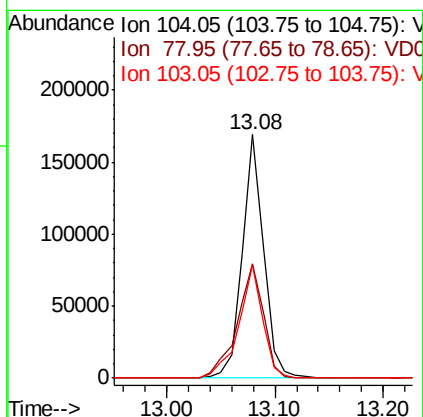
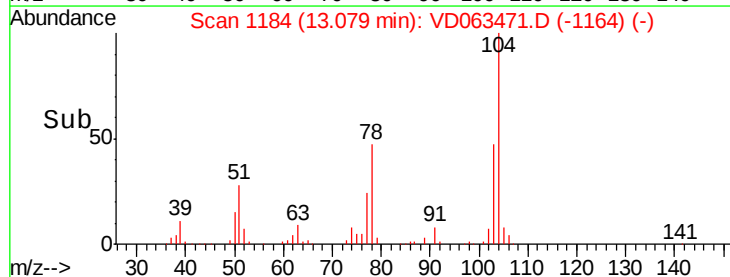
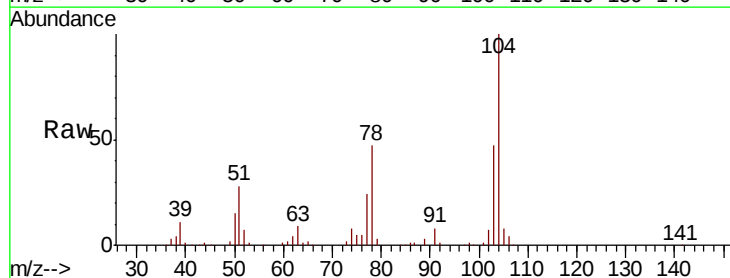
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

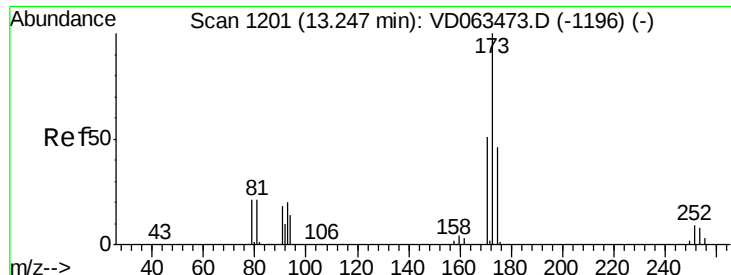
Tgt Ion:106 Resp: 132412
Ion Ratio Lower Upper
106 100
91 236.9 118.1 354.2



#70
Styrene
Concen: 9.036 ug/l
RT: 13.08 min Scan# 1184
Delta R.T. -0.00 min
Lab File: VD063471.D
Acq: 9 Aug 2019 14:02

Tgt Ion:104 Resp: 230497
Ion Ratio Lower Upper
104 100
78 47.0 40.8 61.2
103 46.5 36.4 54.6

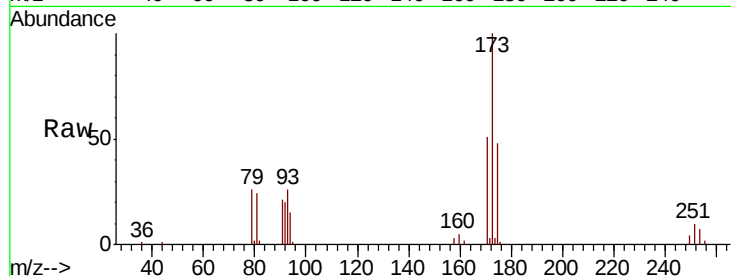




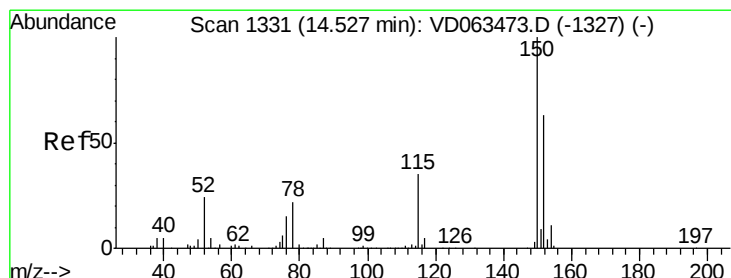
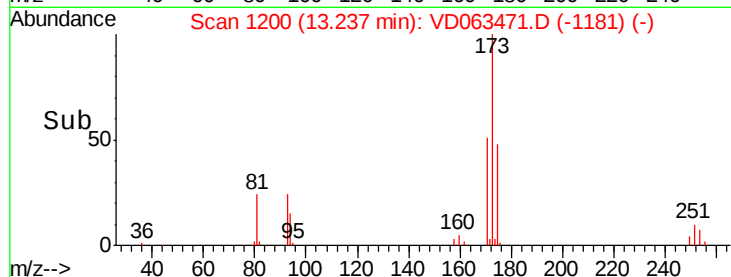
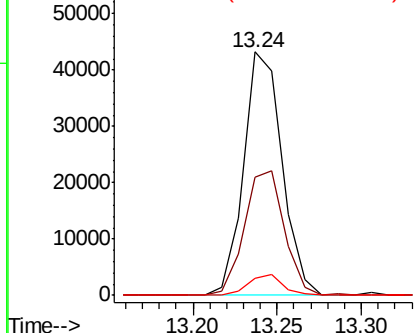
#71
Bromoform
Concen: 9.265 ug/l
RT: 13.24 min Scan# 1200
Delta R.T. -0.01 min
Lab File: VD063471.D
Acq: 9 Aug 2019 14:02

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

Tgt Ion:173 Resp: 68199
Ion Ratio Lower Upper
173 100
175 48.5 22.8 68.3
254 7.2 6.6 9.8

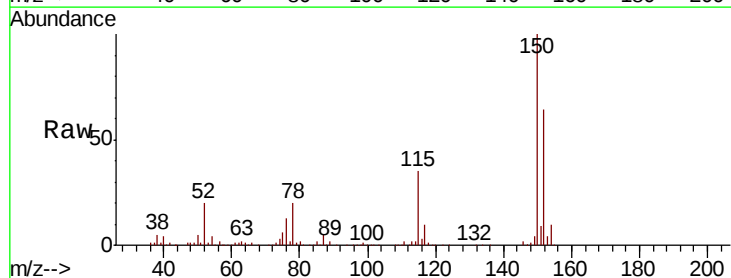


Abundance Ion 172.80 (172.50 to 173.50): V
Ion 174.80 (174.50 to 175.50): V
Ion 253.70 (253.40 to 254.40): V

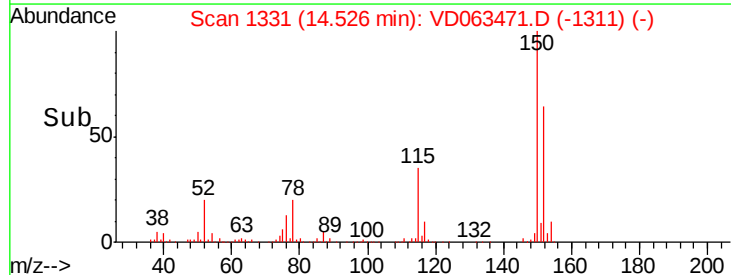
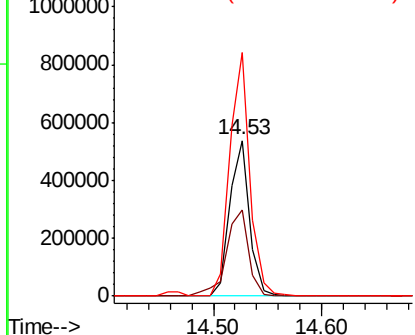


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.53 min Scan# 1331
Delta R.T. -0.00 min
Lab File: VD063471.D
Acq: 9 Aug 2019 14:02

Tgt Ion:152 Resp: 685016
Ion Ratio Lower Upper
152 100
115 54.9 30.9 92.7
150 156.2 0.0 318.6



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





#73

Isopropylbenzene

Concen: 9.702 ug/l

RT: 13.41 min Scan# 1218

Delta R.T. -0.00 min

Lab File: VD063471.D

Acq: 9 Aug 2019 14:02

Instrument :

MSVOA_D

ClientSampleId :

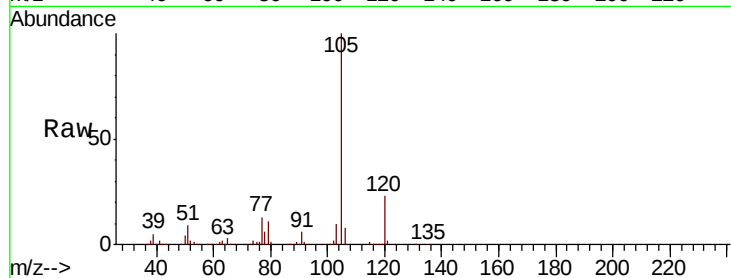
VSTDIC010

Tgt Ion:105 Resp: 422726

Ion Ratio Lower Upper

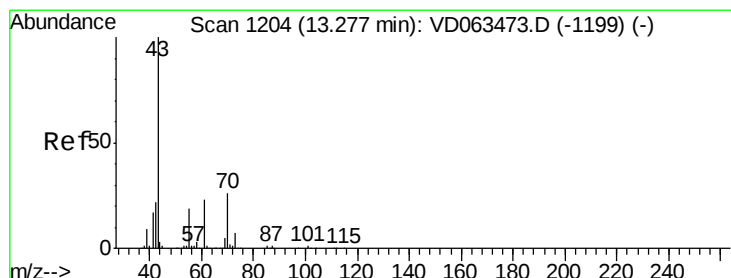
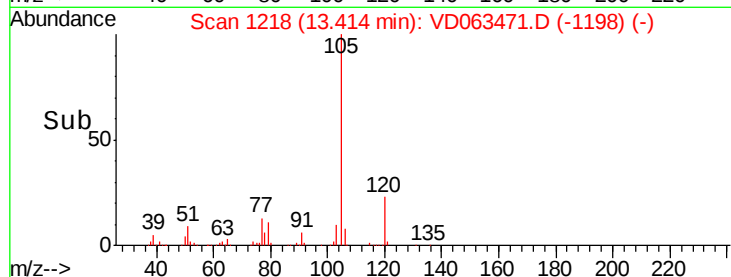
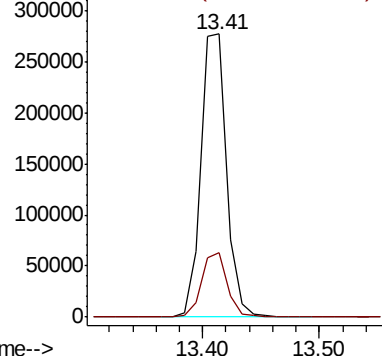
105 100

120 22.6 11.9 35.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 8.916 ug/l

RT: 13.27 min Scan# 1203

Delta R.T. -0.01 min

Lab File: VD063471.D

Acq: 9 Aug 2019 14:02

Tgt Ion: 43 Resp: 97524

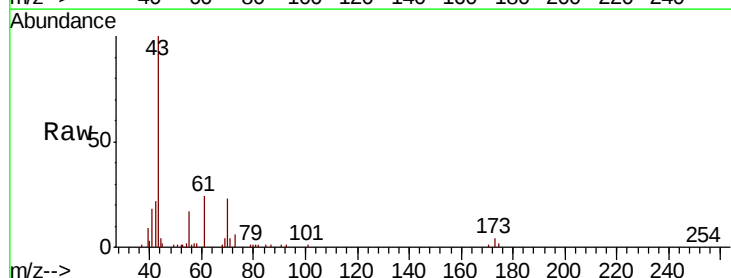
Ion Ratio Lower Upper

43 100

70 23.3 21.1 31.7

55 16.6 15.4 23.0

61 23.7 18.2 27.2

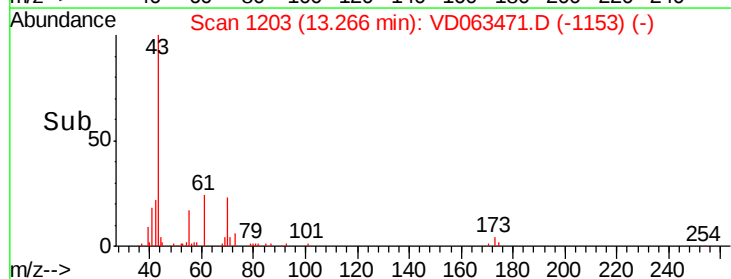
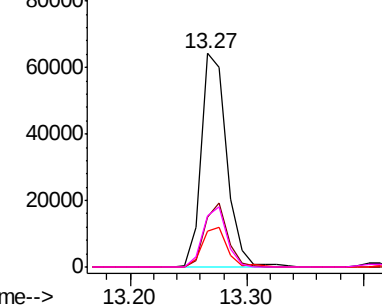


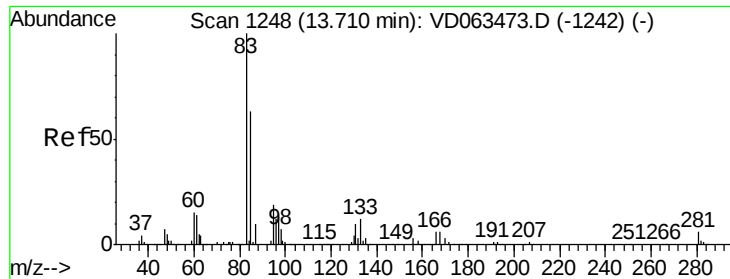
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 9.908 ug/l

RT: 13.71 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VD063471.D

Acq: 9 Aug 2019 14:02

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC010

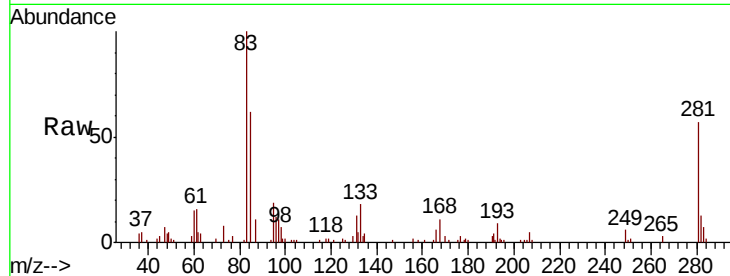
Tgt Ion: 83 Resp: 71654

Ion Ratio Lower Upper

83 100

131 12.7 5.3 15.8

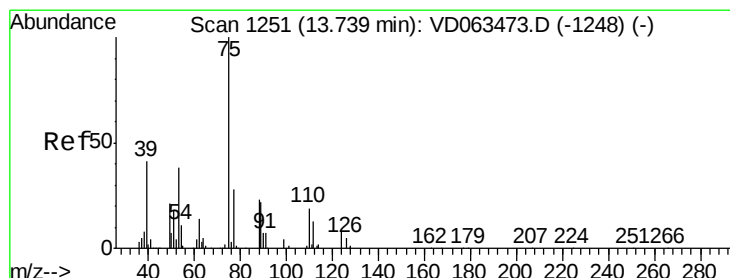
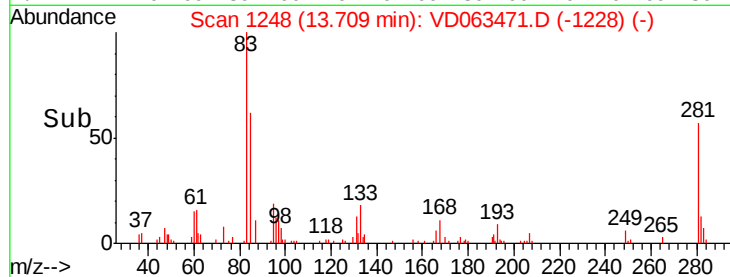
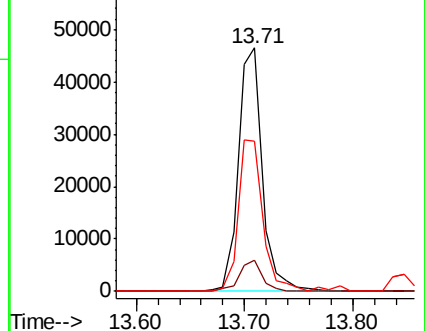
85 61.7 31.4 94.3



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 8.859 ug/l

RT: 13.74 min Scan# 1251

Delta R.T. -0.00 min

Lab File: VD063471.D

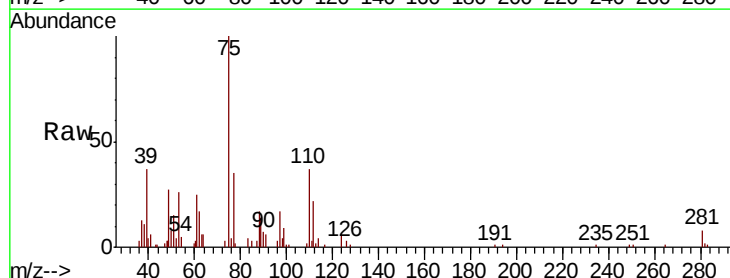
Acq: 9 Aug 2019 14:02

Tgt Ion: 75 Resp: 69647

Ion Ratio Lower Upper

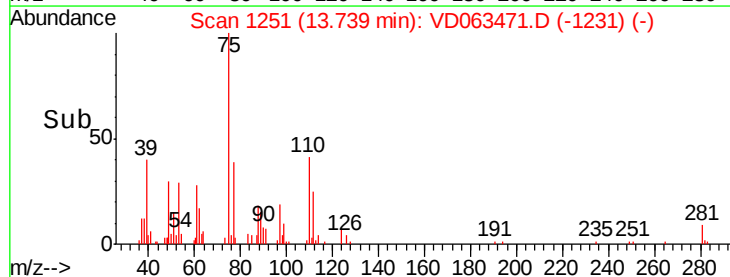
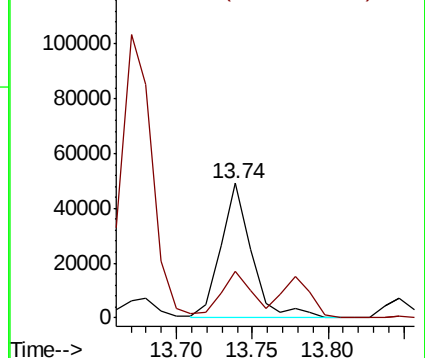
75 100

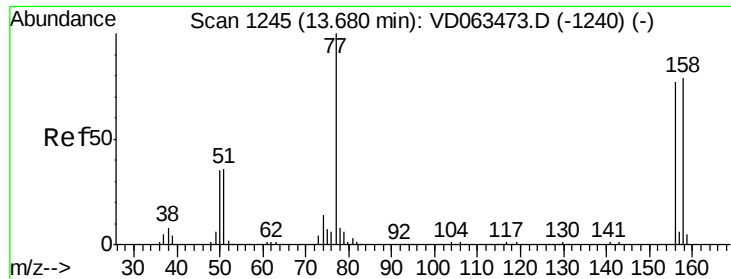
77 35.0 15.1 45.3



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 9.916 ug/l

RT: 13.68 min Scan# 1245

Delta R.T. -0.00 min

Lab File: VD063471.D

Acq: 9 Aug 2019 14:02

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC010

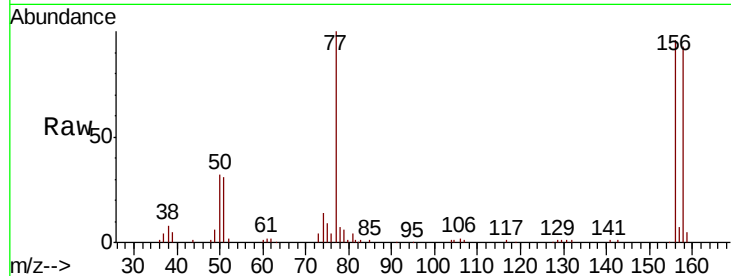
Tgt Ion:156 Resp: 118082

Ion Ratio Lower Upper

156 100

77 103.8 64.6 193.8

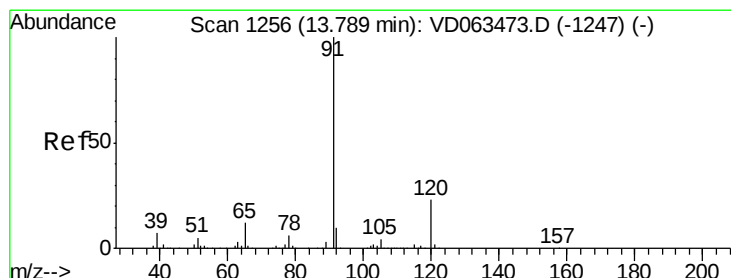
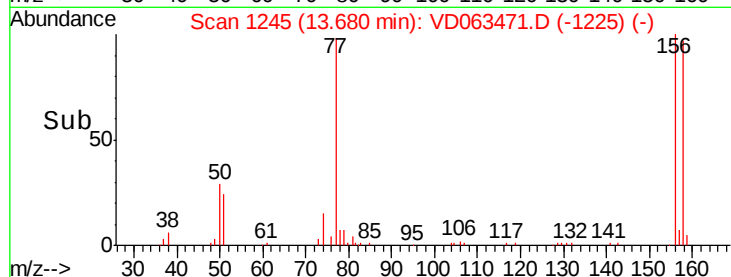
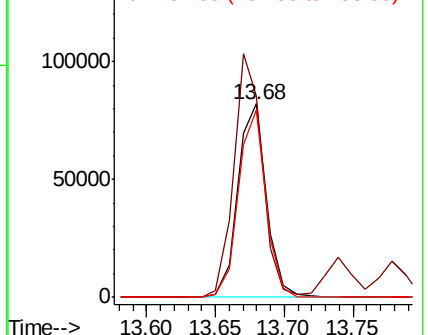
158 97.0 50.9 152.7



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 9.848 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. -0.01 min

Lab File: VD063471.D

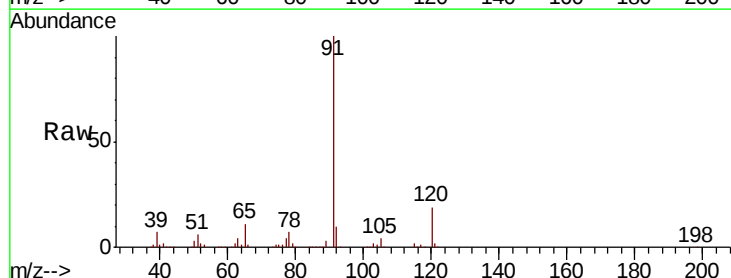
Acq: 9 Aug 2019 14:02

Tgt Ion: 91 Resp: 502030

Ion Ratio Lower Upper

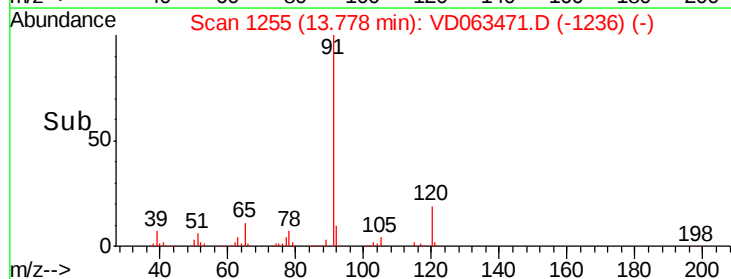
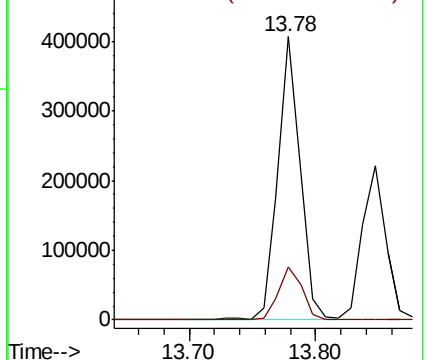
91 100

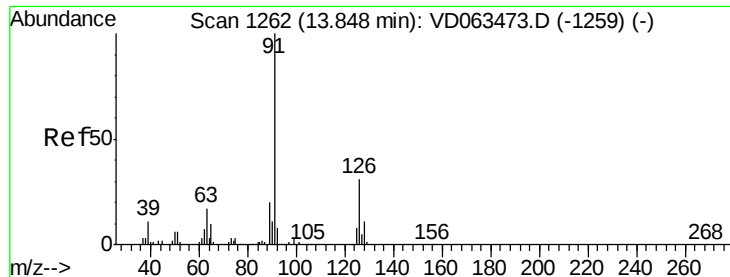
120 18.8 11.3 33.9



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 9.797 ug/l

RT: 13.85 min Scan# 1262

Delta R.T. -0.00 min

Lab File: VD063471.D

Acq: 9 Aug 2019 14:02

Instrument :

MSVOA_D

ClientSampleId :

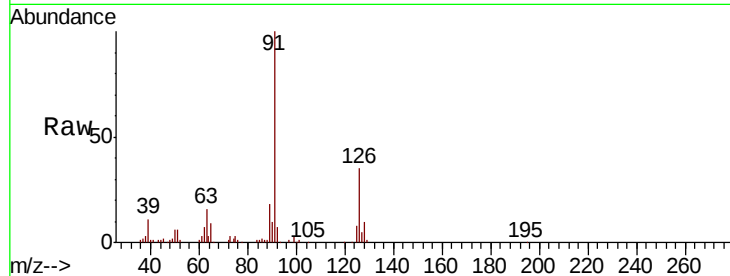
VSTDIC010

Tgt Ion: 91 Resp: 287930

Ion Ratio Lower Upper

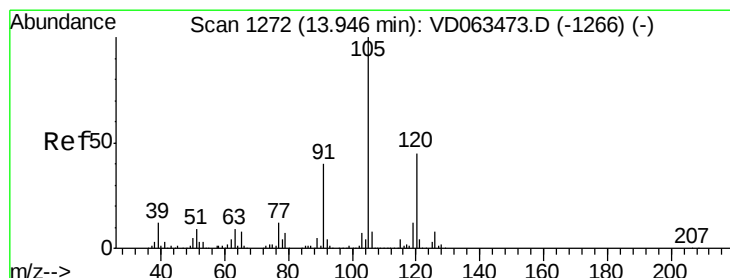
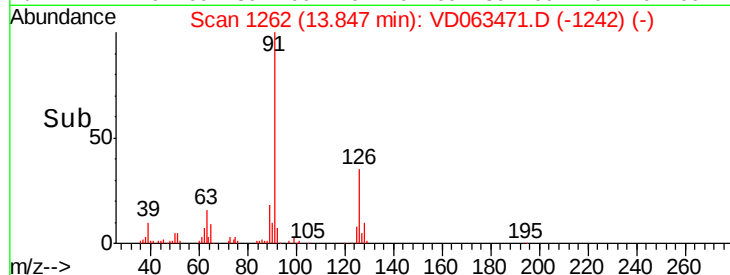
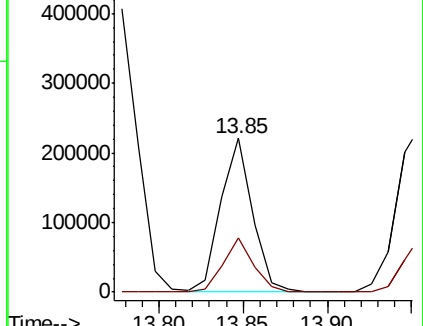
91 100

126 35.1 15.6 46.7



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#80

1,3,5-Trimethylbenzene

Concen: 9.877 ug/l

RT: 13.94 min Scan# 1271

Delta R.T. -0.01 min

Lab File: VD063471.D

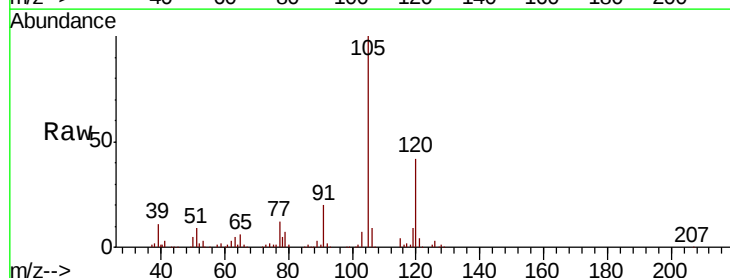
Acq: 9 Aug 2019 14:02

Tgt Ion: 105 Resp: 376014

Ion Ratio Lower Upper

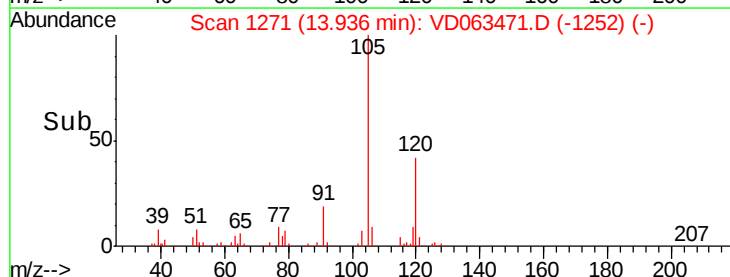
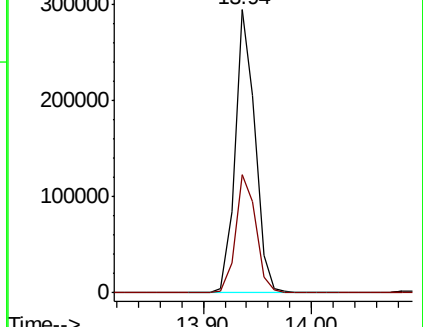
105 100

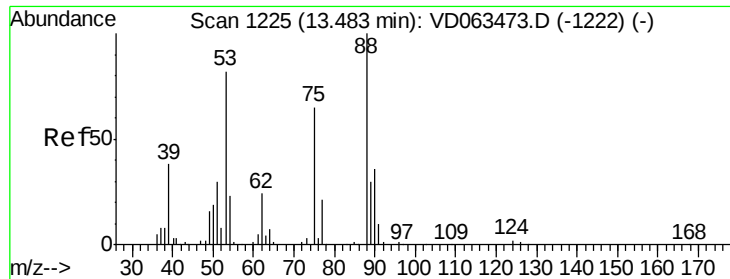
120 41.6 22.8 68.3



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

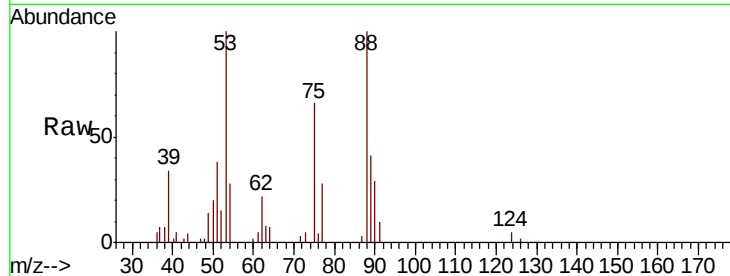




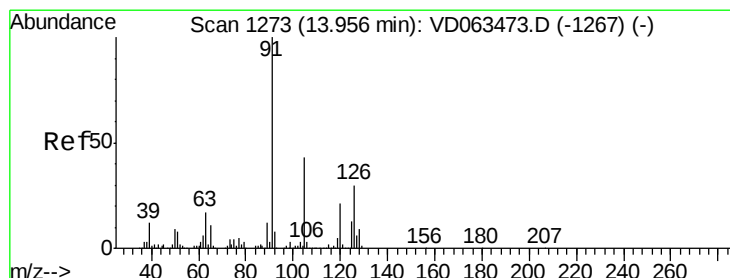
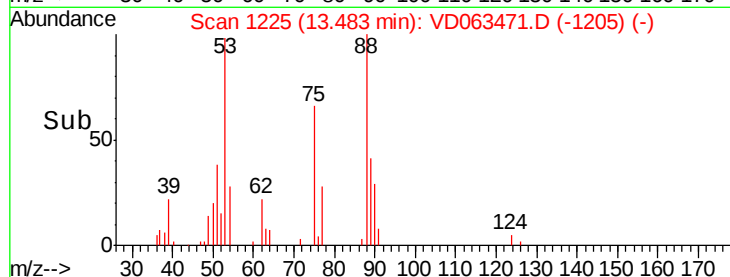
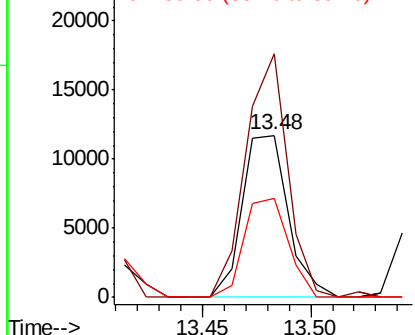
#81
trans-1,4-Dichloro-2-butene
Concen: 8.161 ug/l
RT: 13.48 min Scan# 1225
Delta R.T. -0.00 min
Lab File: VD063471.D
Acq: 9 Aug 2019 14:02

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

Tgt Ion: 75 Resp: 17244
Ion Ratio Lower Upper
75 100
53 150.2 101.0 151.4
89 61.4 37.0 55.6#

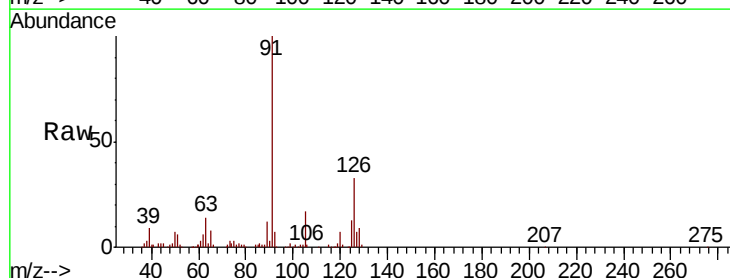


Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC

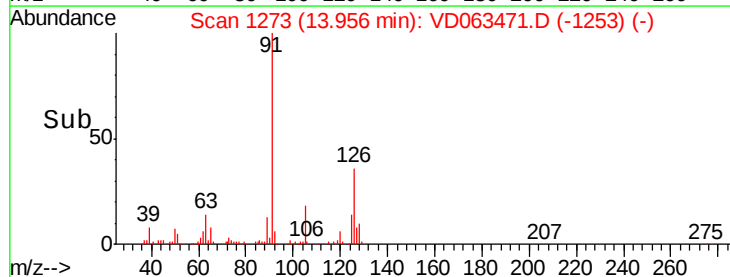
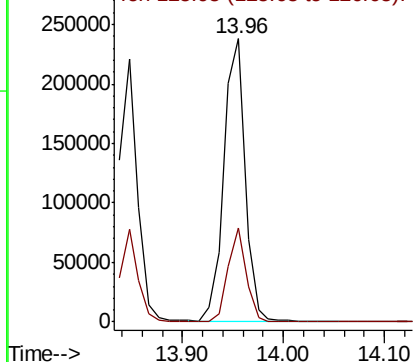


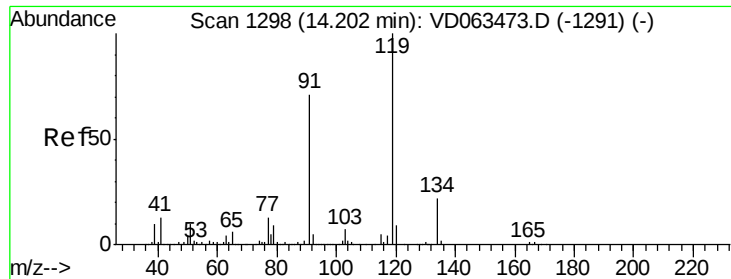
#82
4-Chlorotoluene
Concen: 9.959 ug/l
RT: 13.96 min Scan# 1273
Delta R.T. -0.00 min
Lab File: VD063471.D
Acq: 9 Aug 2019 14:02

Tgt Ion: 91 Resp: 352002
Ion Ratio Lower Upper
91 100
126 33.3 15.2 45.6



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V

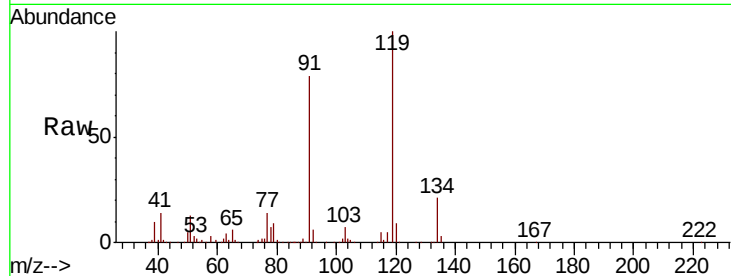




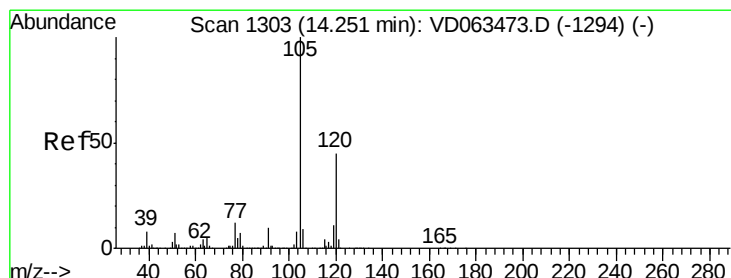
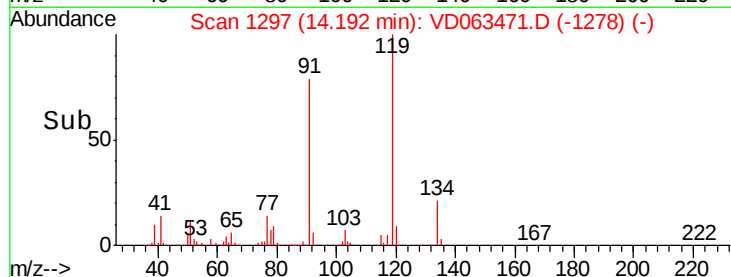
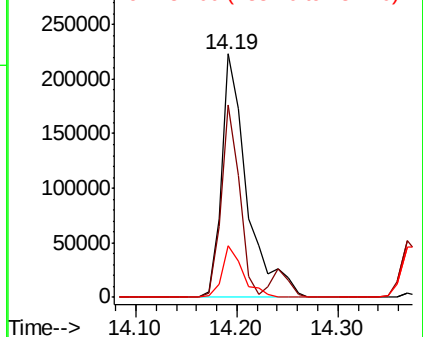
#83
 tert-Butylbenzene
 Concen: 9.760 ug/l
 RT: 14.19 min Scan# 1297
 Delta R.T. -0.01 min
 Lab File: VD063471.D
 Acq: 9 Aug 2019 14:02

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC010

Tgt Ion:119 Resp: 391252
 Ion Ratio Lower Upper
 119 100
 91 79.0 35.5 106.7
 134 21.0 11.1 33.1

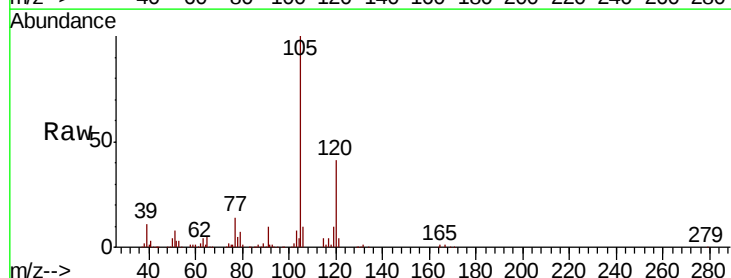


Abundance Ion 119.05 (118.75 to 119.75): V
 Ion 91.00 (90.70 to 91.70): V
 Ion 134.00 (133.70 to 134.70): V

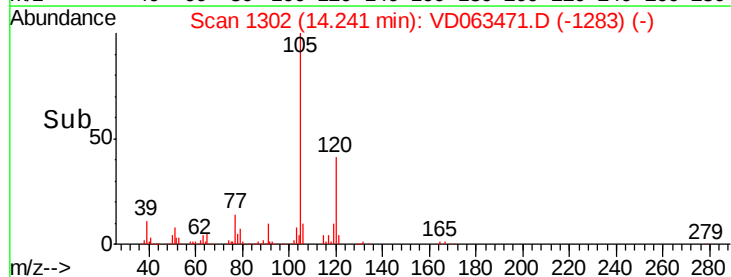
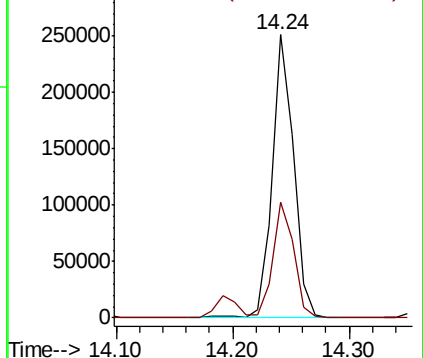


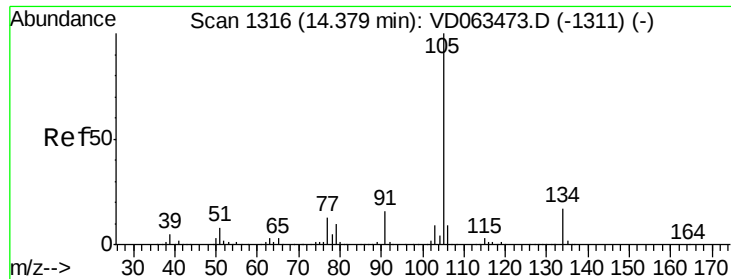
#84
 1,2,4-Trimethylbenzene
 Concen: 9.088 ug/l
 RT: 14.24 min Scan# 1302
 Delta R.T. -0.01 min
 Lab File: VD063471.D
 Acq: 9 Aug 2019 14:02

Tgt Ion:105 Resp: 320134
 Ion Ratio Lower Upper
 105 100
 120 40.8 22.7 68.1



Abundance Ion 105.05 (104.75 to 105.75): V
 Ion 120.05 (119.75 to 120.75): V

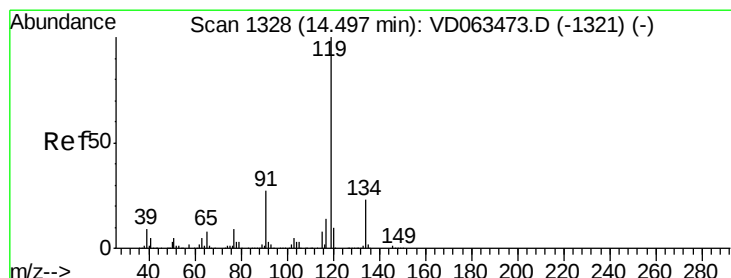
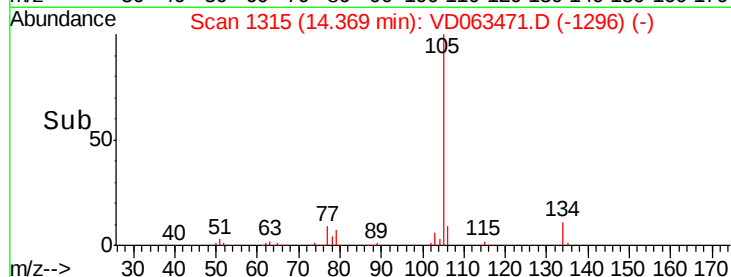
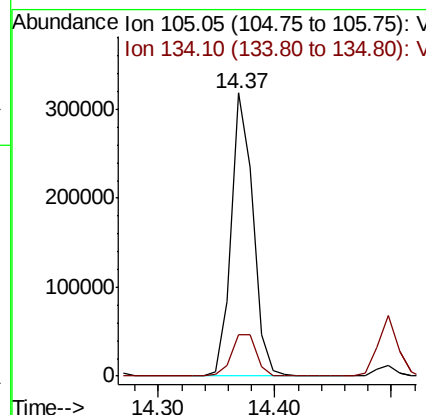
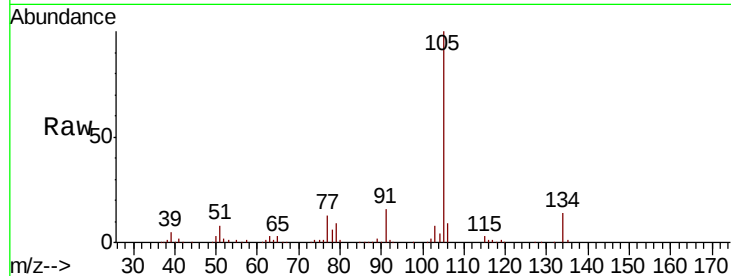




#85
 sec-Butylbenzene
 Concen: 9.697 ug/l
 RT: 14.37 min Scan# 1315
 Delta R.T. -0.01 min
 Lab File: VD063471.D
 Acq: 9 Aug 2019 14:02

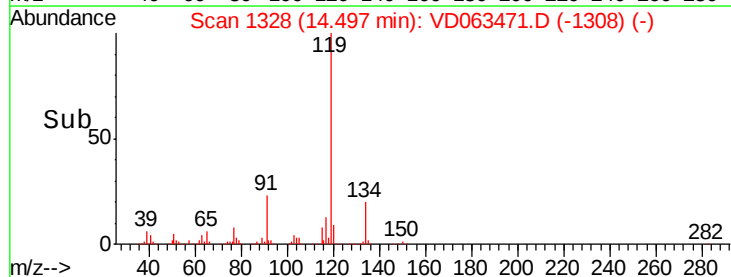
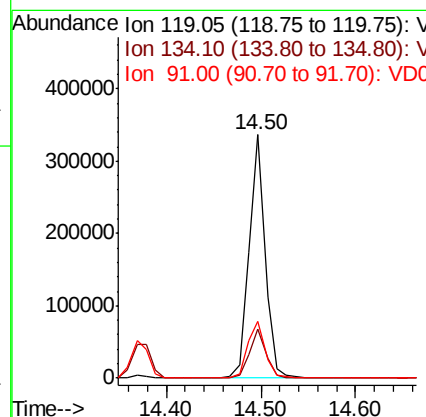
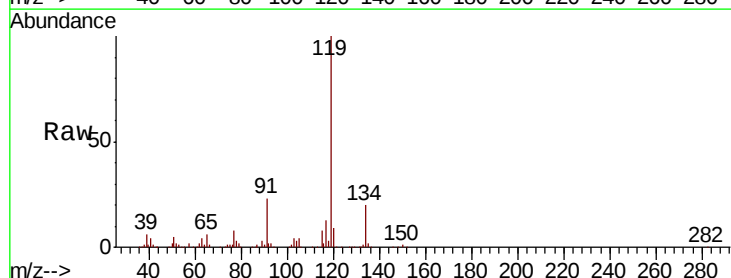
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC010

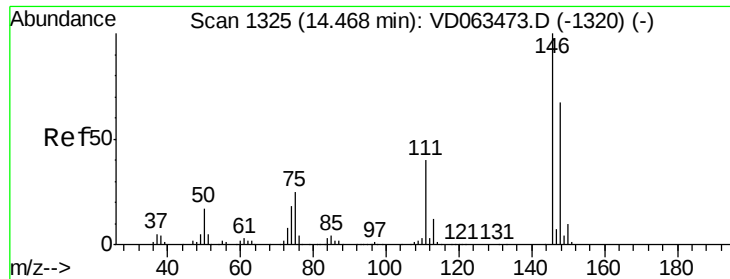
Tgt Ion:105 Resp: 412846
 Ion Ratio Lower Upper
 105 100
 134 14.4 8.3 24.8



#86
 p-Isopropyltoluene
 Concen: 9.631 ug/l
 RT: 14.50 min Scan# 1328
 Delta R.T. -0.00 min
 Lab File: VD063471.D
 Acq: 9 Aug 2019 14:02

Tgt Ion:119 Resp: 392025
 Ion Ratio Lower Upper
 119 100
 134 20.3 11.3 33.8
 91 23.4 13.5 40.4

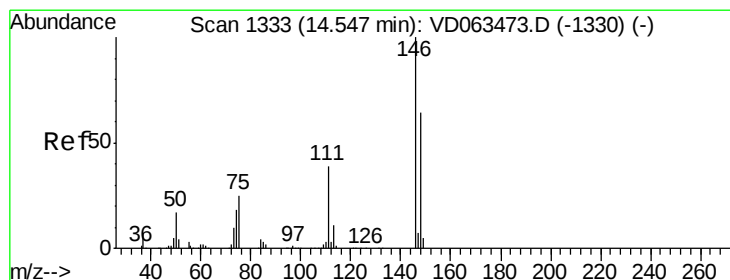
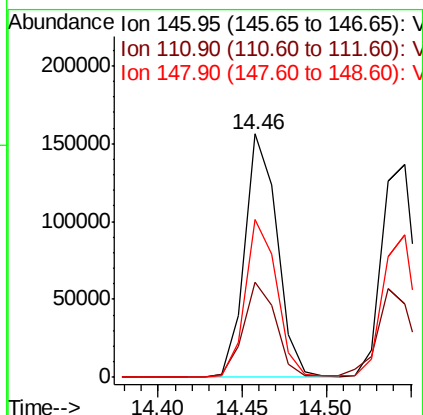
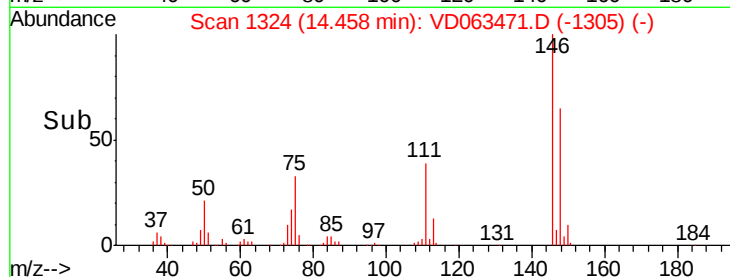
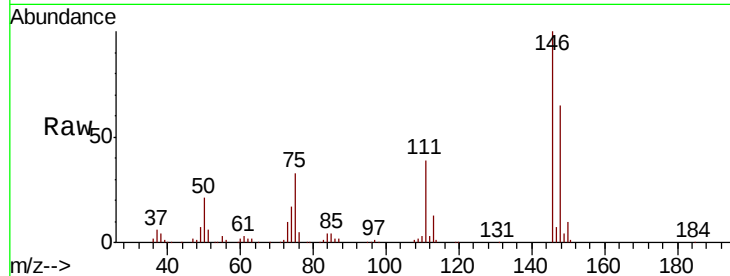




#87
 1,3-Dichlorobenzene
 Concen: 9.703 ug/l
 RT: 14.46 min Scan# 1324
 Delta R.T. -0.01 min
 Lab File: VD063471.D
 Acq: 9 Aug 2019 14:02

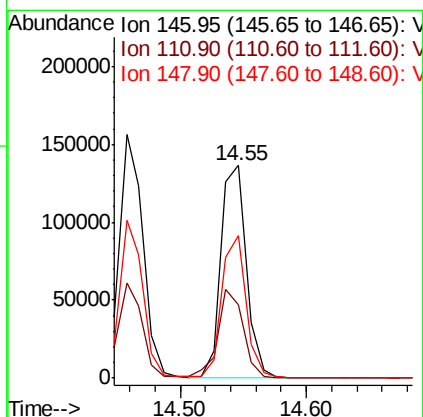
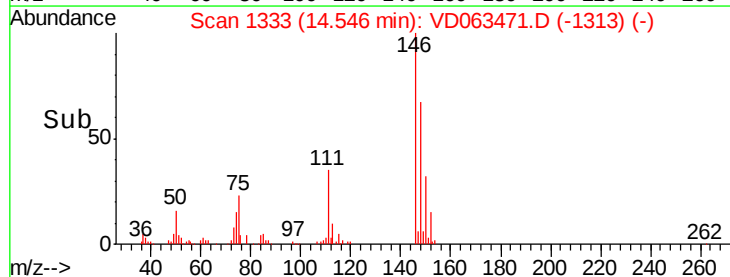
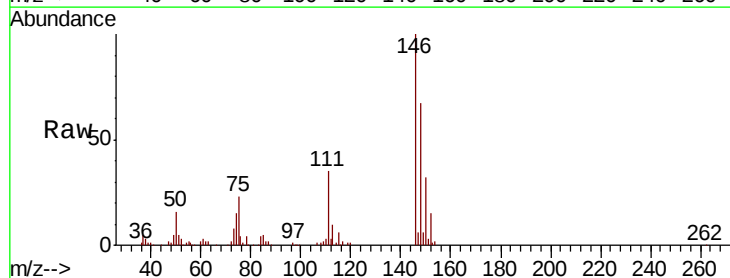
Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC010

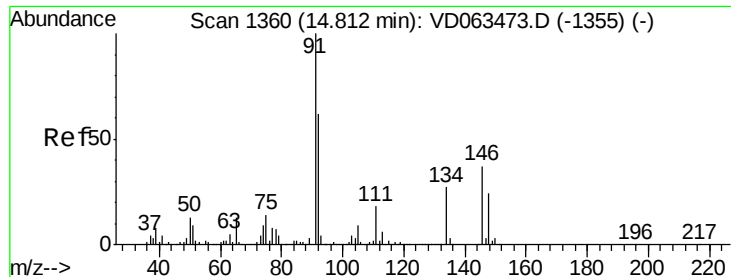
Tgt Ion:146 Resp: 208998
 Ion Ratio Lower Upper
 146 100
 111 39.0 20.0 60.0
 148 65.0 33.6 100.6



#88
 1,4-Dichlorobenzene
 Concen: 9.229 ug/l
 RT: 14.55 min Scan# 1333
 Delta R.T. -0.00 min
 Lab File: VD063471.D
 Acq: 9 Aug 2019 14:02

Tgt Ion:146 Resp: 190711
 Ion Ratio Lower Upper
 146 100
 111 34.6 19.7 59.0
 148 67.0 32.1 96.3





#89

n-Butylbenzene

Concen: 9.438 ug/l

RT: 14.80 min Scan# 1359

Delta R.T. -0.01 min

Lab File: VD063471.D

Acq: 9 Aug 2019 14:02

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC010

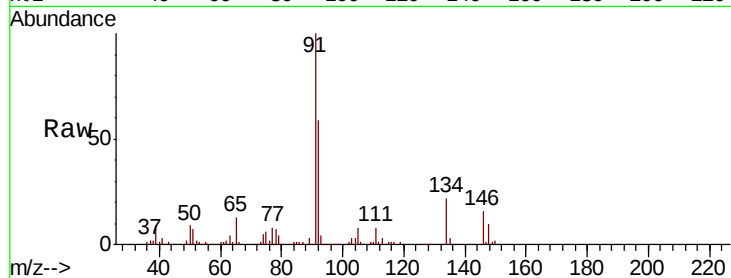
Tgt Ion: 91 Resp: 350652

Ion Ratio Lower Upper

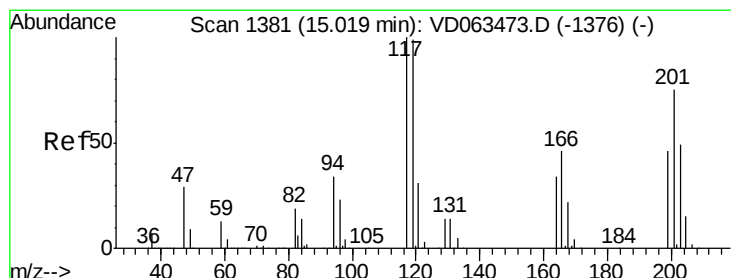
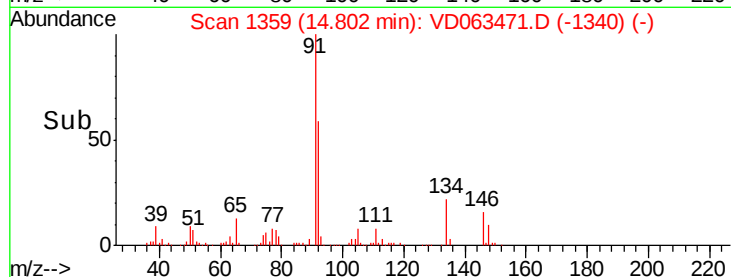
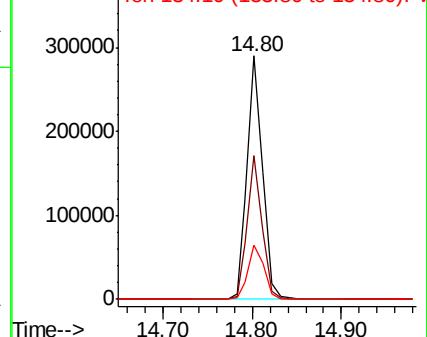
91 100

92 59.1 30.8 92.3

134 22.3 13.4 40.2



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 92.00 (91.70 to 92.70): VDC
Ion 134.10 (133.80 to 134.80): VDC



#90

Hexachloroethane

Concen: 8.757 ug/l

RT: 15.01 min Scan# 1380

Delta R.T. -0.01 min

Lab File: VD063471.D

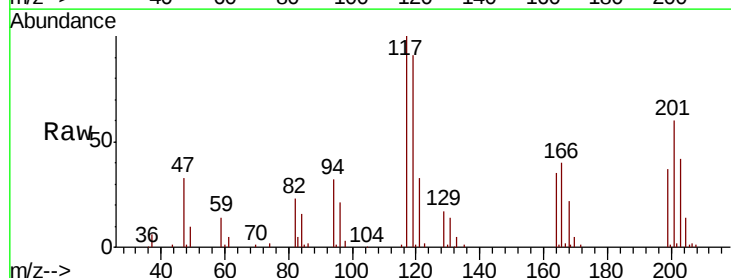
Acq: 9 Aug 2019 14:02

Tgt Ion: 117 Resp: 89598

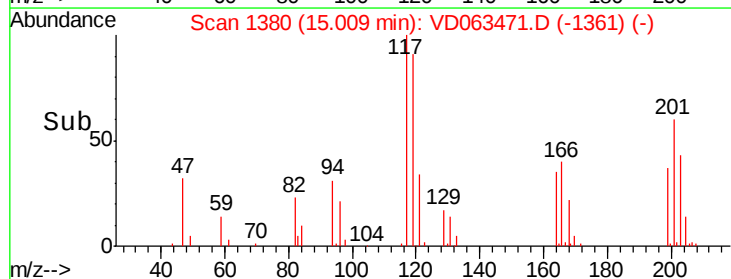
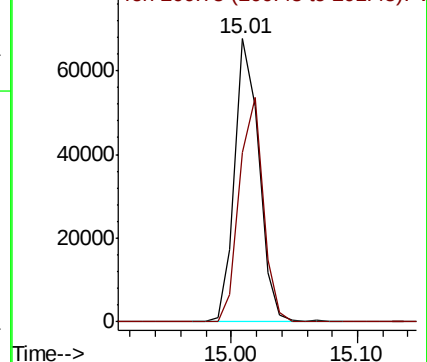
Ion Ratio Lower Upper

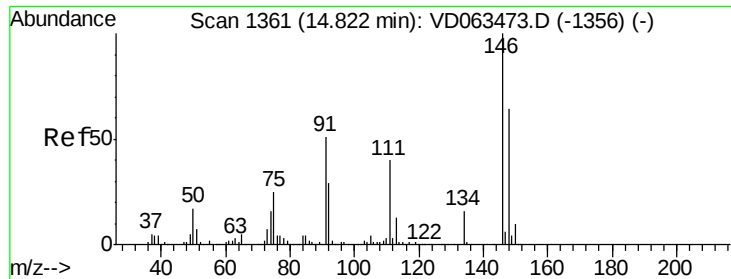
117 100

201 59.8 37.5 112.5



Abundance Ion 116.85 (116.55 to 117.55): V
Ion 200.75 (200.45 to 201.45): V





#91

1,2-Dichlorobenzene

Concen: 9.247 ug/l

RT: 14.81 min Scan# 1360

Delta R.T. -0.01 min

Lab File: VD063471.D

Acq: 9 Aug 2019 14:02

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC010

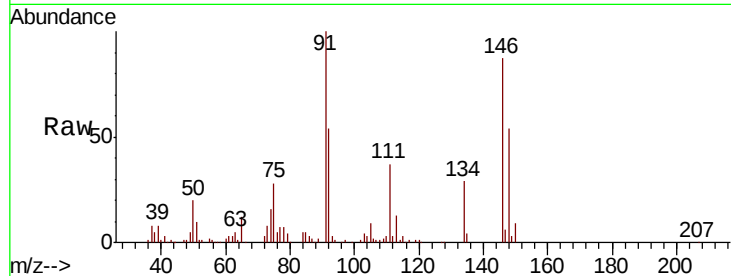
Tgt Ion: 146 Resp: 168979

Ion Ratio Lower Upper

146 100

111 42.9 20.2 60.6

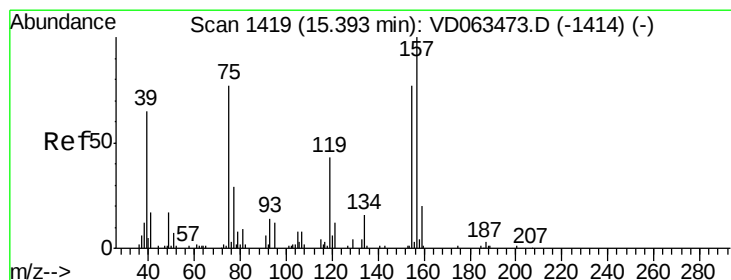
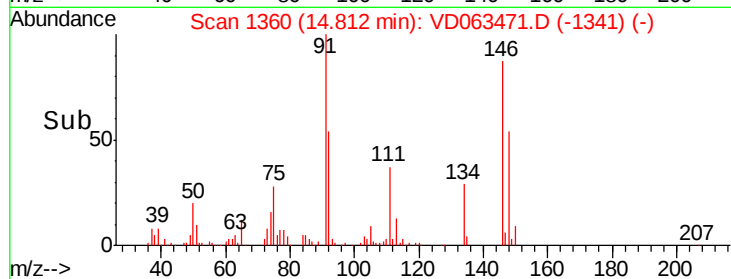
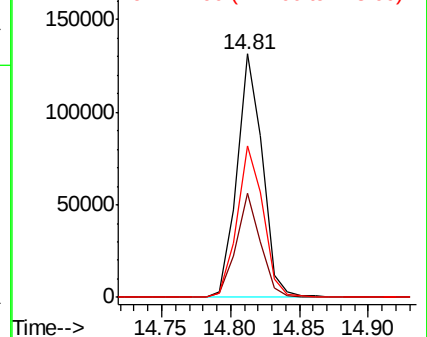
148 62.4 32.1 96.5



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 9.999 ug/l

RT: 15.38 min Scan# 1418

Delta R.T. -0.01 min

Lab File: VD063471.D

Acq: 9 Aug 2019 14:02

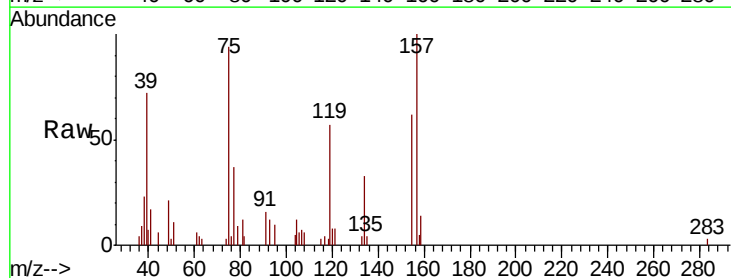
Tgt Ion: 75 Resp: 13616

Ion Ratio Lower Upper

75 100

155 66.1 50.1 150.3

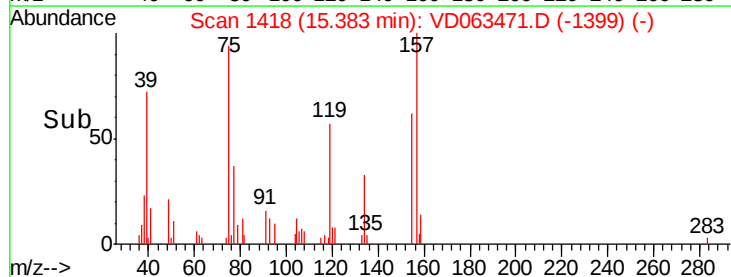
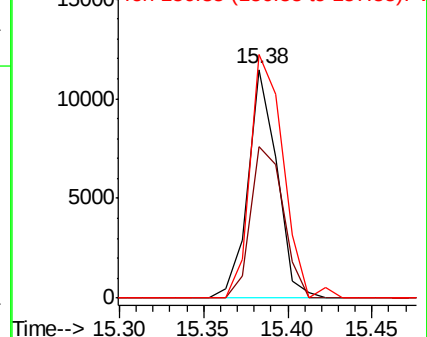
157 106.4 65.0 195.1

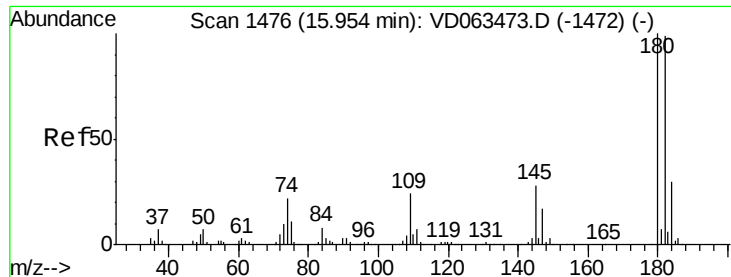


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V

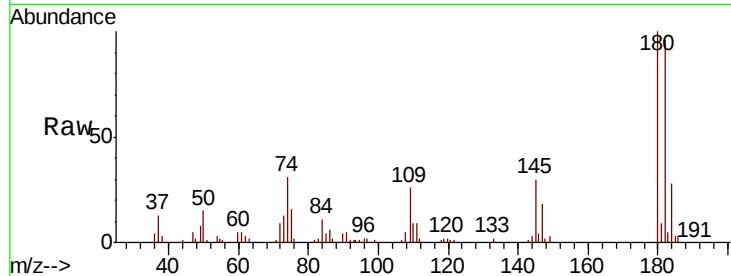




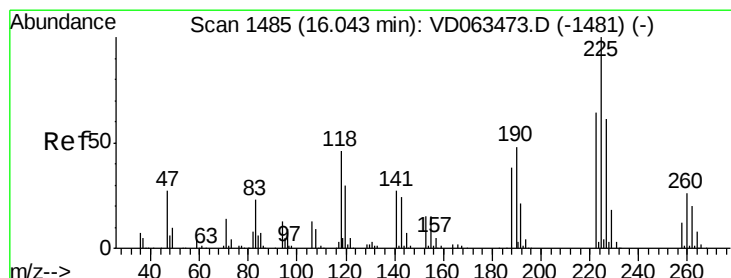
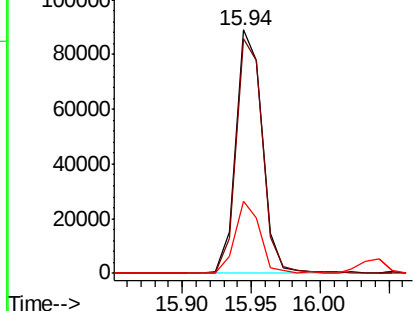
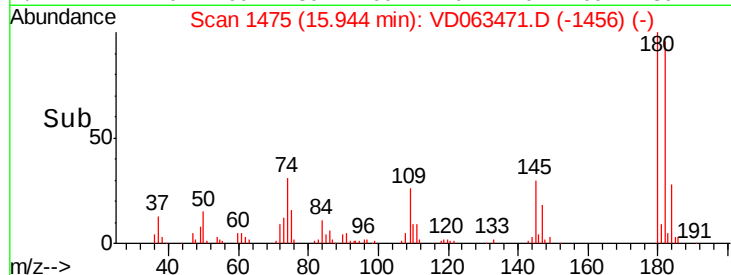
#93
 1,2,4-Trichlorobenzene
 Concen: 8.827 ug/l
 RT: 15.94 min Scan# 1475
 Delta R.T. -0.01 min
 Lab File: VD063471.D
 Acq: 9 Aug 2019 14:02

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC010

Tgt Ion:180 Resp: 118697
 Ion Ratio Lower Upper
 180 100
 182 96.4 49.7 149.1
 145 29.8 14.1 42.2

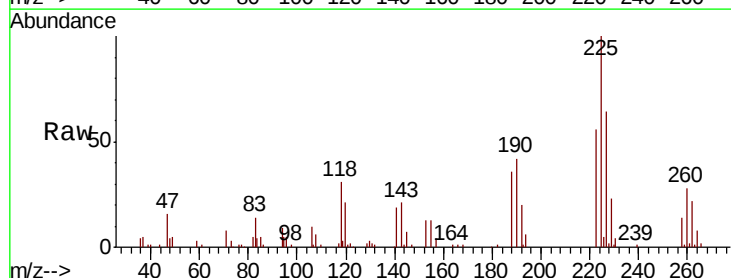


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

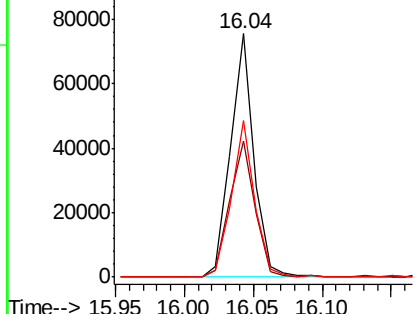
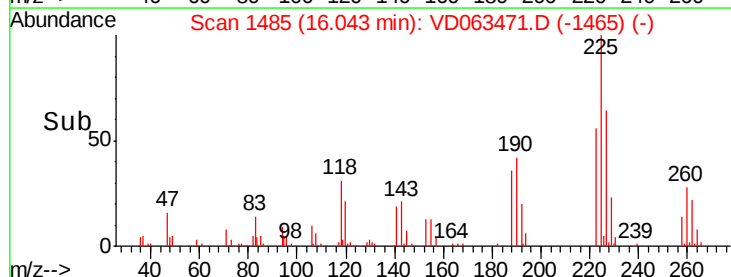


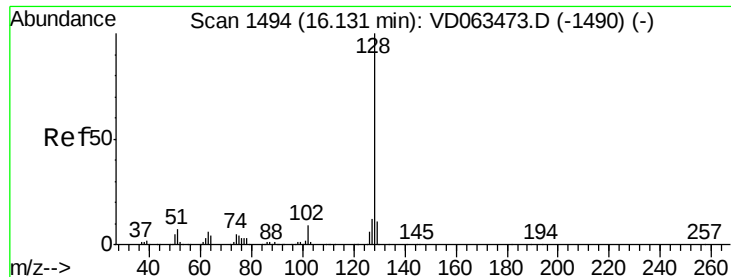
#94
 Hexachlorobutadiene
 Concen: 8.626 ug/l
 RT: 16.04 min Scan# 1485
 Delta R.T. -0.00 min
 Lab File: VD063471.D
 Acq: 9 Aug 2019 14:02

Tgt Ion:225 Resp: 88401
 Ion Ratio Lower Upper
 225 100
 223 56.0 31.9 95.5
 227 64.3 30.7 92.1



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

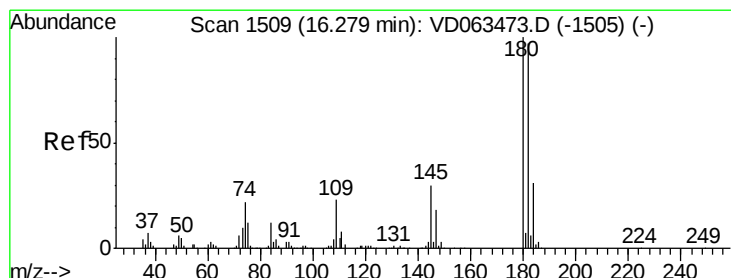
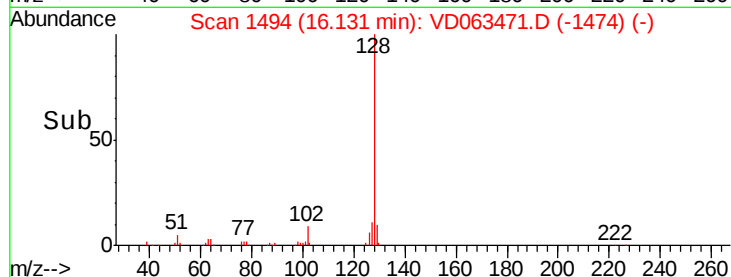
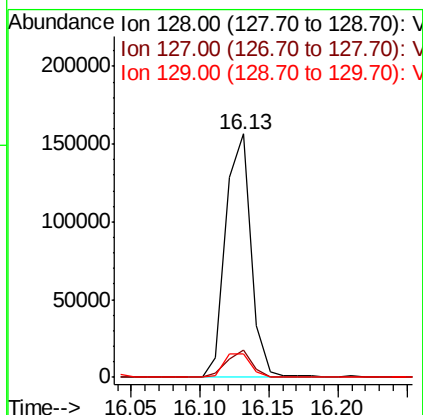
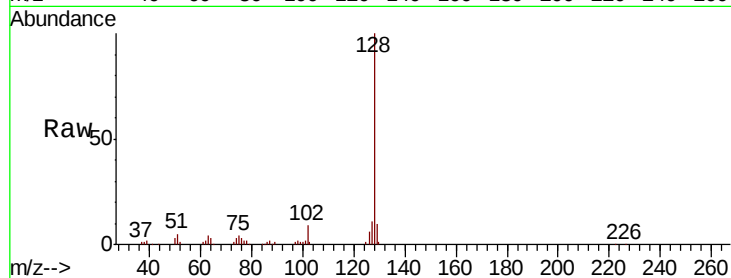




#95
Naphthalene
Concen: 9.815 ug/l
RT: 16.13 min Scan# 1494
Delta R.T. -0.00 min
Lab File: VD063471.D
Acq: 9 Aug 2019 14:02

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

Tgt Ion:128 Resp: 200026
Ion Ratio Lower Upper
128 100
127 11.0 9.4 14.0
129 9.7 8.5 12.7



#96
1,2,3-Trichlorobenzene
Concen: 10.030 ug/l
RT: 16.28 min Scan# 1509
Delta R.T. -0.00 min
Lab File: VD063471.D
Acq: 9 Aug 2019 14:02

Tgt Ion:180 Resp: 108937
Ion Ratio Lower Upper
180 100
182 96.9 48.4 145.2
145 22.3 14.9 44.9

