

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051219\
 Data File : VD062258.D
 Acq On : 12 May 2019 14:52
 Operator : FY/SY
 Sample : K2733-03MSD
 Misc : 6.28g/5mL/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 P021-SS001-0002-01MSD

Quant Time: May 13 01:33:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 14:26:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	492644	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	8.23	114	740057	50.00	ug/l	0.04
63) Chlorobenzene-d5	12.37	117	469996	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.53	152	122649	50.00	ug/l	0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.47	65	231125	50.48	ug/l	0.05
Spiked Amount	50.000		Recovery	=	100.96%	
35) Dibromofluoromethane	6.94	113	291173	47.42	ug/l	0.05
Spiked Amount	50.000		Recovery	=	94.84%	
50) Toluene-d8	10.42	98	507221	34.26	ug/l	0.03
Spiked Amount	50.000		Recovery	=	68.52%	
62) 4-Bromofluorobenzene	13.56	95	134285	22.59	ug/l	0.02
Spiked Amount	50.000		Recovery	=	45.18%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.58	85	234706	49.813	ug/l	100
3) Chloromethane	1.76	50	151440	44.481	ug/l	100
4) Vinyl Chloride	1.86	62	178105	53.230	ug/l	97
5) Bromomethane	2.17	94	49884	63.627	ug/l	97
6) Chloroethane	2.28	64	98525	70.174	ug/l	97
7) Trichlorofluoromethane	2.55	101	355567	54.660	ug/l	100
8) Diethyl Ether	2.88	74	60500	48.224	ug/l	77
9) 1,1,2-Trichlorotrifluoroet	3.16	101	193606	39.344	ug/l	95
10) Methyl Iodide	3.32	142	113091	15.206	ug/l #	87
11) Tert butyl alcohol	4.06	59	54161	231.762	ug/l #	92
12) 1,1-Dichloroethene	3.14	96	188382	50.150	ug/l	92
14) Allvl chloride	3.63	41	246569	45.145	ug/l #	85
15) Acrylonitrile	4.21	53	98836	160.905	ug/l	93
16) Acetone	3.23	43	206986	215.588	ug/l #	86
17) Carbon Disulfide	3.39	76	409948	37.938	ug/l	98
18) Methyl Acetate	3.65	43	98432	57.369	ug/l	97
19) Methyl tert-butyl Ether	4.25	73	469331	58.291	ug/l	97
20) Methylene Chloride	3.83	84	266813	66.557	ug/l	93
21) trans-1,2-Dichloroethene	4.23	96	220388	52.725	ug/l	92
22) Diisopropyl ether	5.14	45	764917	65.814	ug/l #	85
23) Vinyl Acetate	5.14	43	318990	52.020	ug/l #	77
24) 1,1-Dichloroethane	5.00	63	437280	62.368	ug/l	98
25) 2-Butanone	6.08	43	219896	209.977	ug/l	97
26) 2,2-Dichloropropane	6.04	77	309274	44.283	ug/l	96
27) cis-1,2-Dichloroethene	6.05	96	266537	56.968	ug/l	95
28) Bromochloromethane	6.46	49	218184	79.095	ug/l	86
29) Tetrahydrofuran	6.47	42	134318	278.366	ug/l	93
30) Chloroform	6.68	83	521907	61.765	ug/l	99
31) Cyclohexane	6.97	56	151063	31.449	ug/l	93
32) 1,1,1-Trichloroethane	6.89	97	436580	54.663	ug/l	99
36) 1,1-Dichloropropene	7.15	75	243972	40.208	ug/l	94
37) Ethyl Acetate	6.08	43	221342	86.016	ug/l #	28
38) Carbon Tetrachloride	7.13	117	365686	43.543	ug/l	99
39) Methylcyclohexane	8.88	83	85802	14.759	ug/l	93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Benzene	7.47	78	686650	50.114	ug/l	97
41) Methacrylonitrile	6.48	41	117651	37.413	ug/l #	79
42) 1,2-Dichloroethane	7.59	62	309037	53.234	ug/l	95
43) Isopropyl Acetate	9.33	43	6622	1.815	ug/l #	43
44) Trichloroethene	8.55	130	219901	42.118	ug/l	88
45) 1,2-Dichloropropane	8.96	63	180461	53.247	ug/l	98
46) Dibromomethane	9.07	93	159366	57.825	ug/l	95
47) Bromodichloromethane	9.39	83	343585	50.967	ug/l	97
48) Methyl methacrylate	9.13	41	44984	20.011	ug/l #	82
49) 1,4-Dioxane	9.09	88	23818	982.027	ug/l #	85
51) 4-Methyl-2-Pentanone	10.31	43	497949	212.264	ug/l	91
52) Toluene	10.52	92	395667	44.383	ug/l	95
53) t-1,3-Dichloropropene	10.92	75	176705	30.329	ug/l	99
54) cis-1,3-Dichloropropene	10.05	75	172745	27.178	ug/l #	86
55) 1,1,2-Trichloroethane	11.20	97	150739	47.788	ug/l	96
57) 1,3-Dichloropropane	11.42	76	220907	46.357	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.87	63	418051	233.490	ug/l	97
59) 2-Hexanone	11.53	43	145006	83.866	ug/l	92
60) Dibromochloromethane	11.69	129	239888	44.006	ug/l	100
61) 1,2-Dibromoethane	11.81	107	146781	38.275	ug/l	94
64) Tetrachloroethene	11.27	164	162704	44.271	ug/l	94
65) Chlorobenzene	12.41	112	381818	43.617	ug/l	96
66) 1,1,1,2-Tetrachloroethane	12.52	131	214800	56.381	ug/l	93
67) Ethyl Benzene	12.53	91	651886	44.482	ug/l	93
68) m/p-Xylenes	12.68	106	402400	75.470	ug/l	92
69) o-Xylene	13.05	106	196610	39.663	ug/l	86
70) Styrene	13.08	104	237667	28.303	ug/l	96
71) Bromoform	13.24	173	108071	40.772	ug/l #	96
73) Isopropylbenzene	13.40	105	469907	63.916	ug/l	96
75) 1,1,2,2-Tetrachloroethane	13.70	83	131490	94.473	ug/l	98
76) 1,2,3-Trichloropropane	13.74	75	113519	77.881	ug/l	98
77) Bromobenzene	13.68	156	159867	77.678	ug/l	94
78) n-propylbenzene	13.78	91	404412	46.113	ug/l	94
79) 2-Chlorotoluene	13.85	91	294976	58.728	ug/l	96
80) 1,3,5-Trimethylbenzene	13.94	105	350651	56.639	ug/l	94
81) trans-1,4-Dichloro-2-buten	13.47	75	15414	37.460	ug/l	88
82) 4-Chlorotoluene	13.95	91	345727	58.493	ug/l	93
83) tert-Butylbenzene	14.19	119	331905	47.697	ug/l	89
84) 1,2,4-Trimethylbenzene	14.24	105	332990	53.599	ug/l	90
85) sec-Butylbenzene	14.37	105	251230	32.929	ug/l	93
86) p-Isopropyltoluene	14.50	119	129322	18.972	ug/l	96
87) 1,3-Dichlorobenzene	14.46	146	152210	40.485	ug/l	99
88) 1,4-Dichlorobenzene	14.55	146	166313	45.021	ug/l	90
89) n-Butylbenzene	14.80	91	122871	20.083	ug/l	92
90) Hexachloroethane	15.01	117	51247	27.646	ug/l	99
91) 1,2-Dichlorobenzene	14.81	146	145650	47.040	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	15.38	75	16971	74.281	ug/l	74
93) 1,2,4-Trichlorobenzene	15.95	180	41949	18.614	ug/l	97
94) Hexachlorobutadiene	16.04	225	18020	10.750	ug/l	94
95) Naphthalene	16.13	128	88486	28.123	ug/l	97

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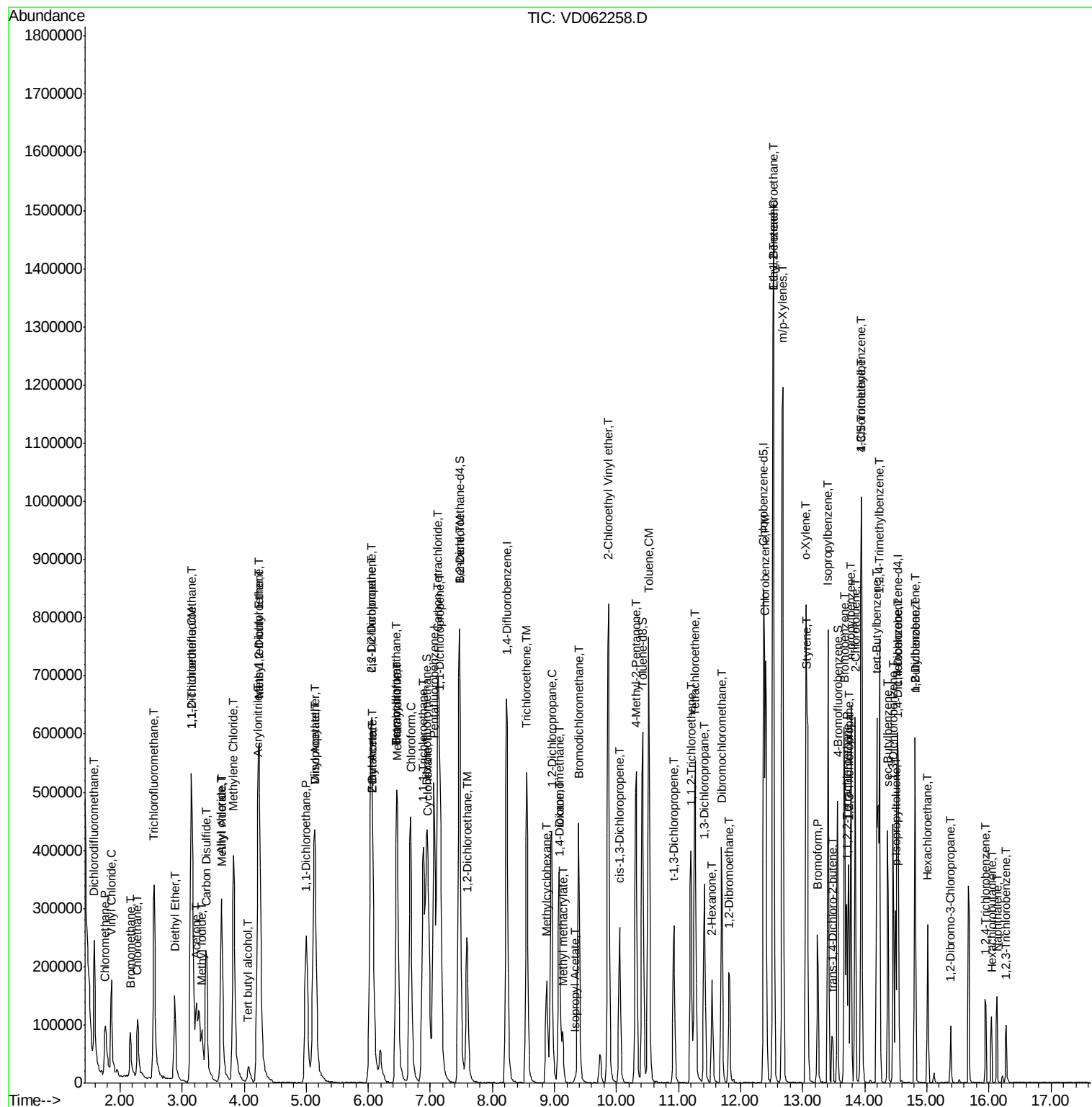
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 1,2,3-Trichlorobenzene	16.28	180	27194	19.192	ug/l	94

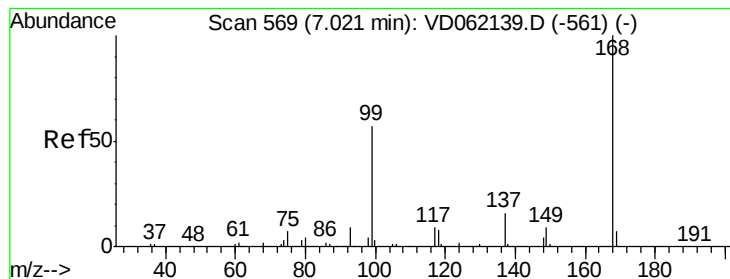
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.04 min

Lab File: VD062258.D

Acq: 12 May 2019 14:52

Instrument :

MSVOA_D

ClientSampleId :

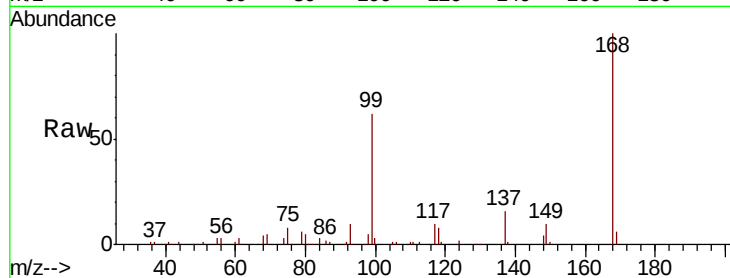
P021-SS001-0002-01MSD

Tot Ion:168 Resp: 492644

Ion Ratio Lower Upper

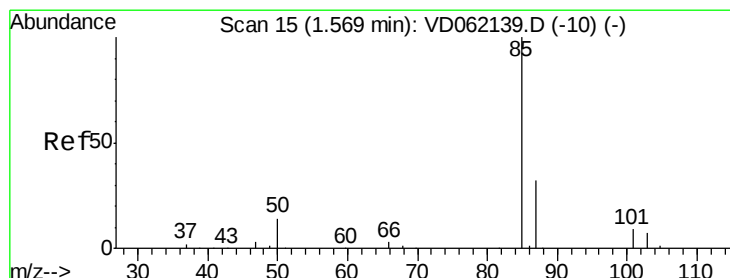
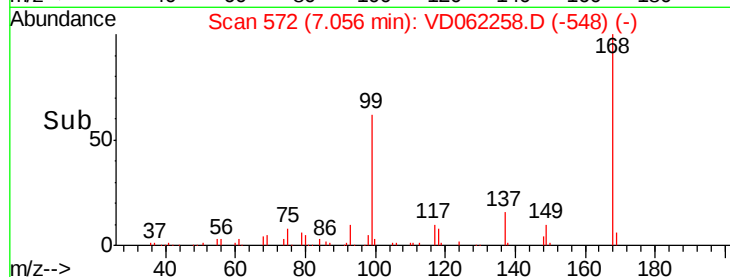
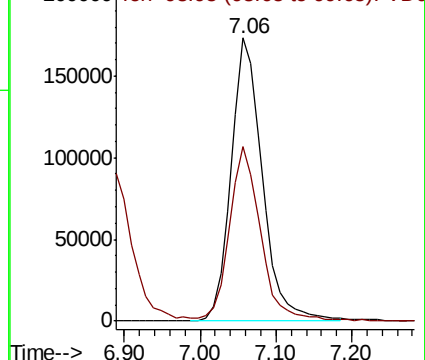
168 100

99 61.8 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 49.813 ug/l

RT: 1.58 min Scan# 16

Delta R.T. 0.02 min

Lab File: VD062258.D

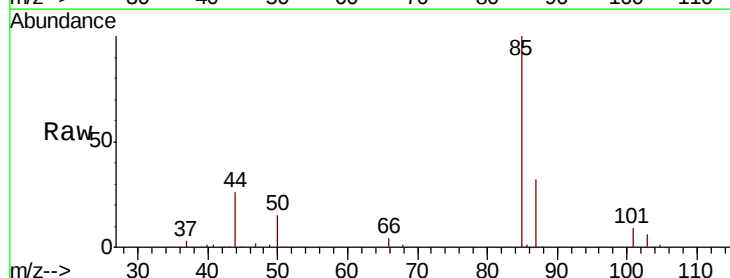
Acq: 12 May 2019 14:52

Tgt Ion: 85 Resp: 234706

Ion Ratio Lower Upper

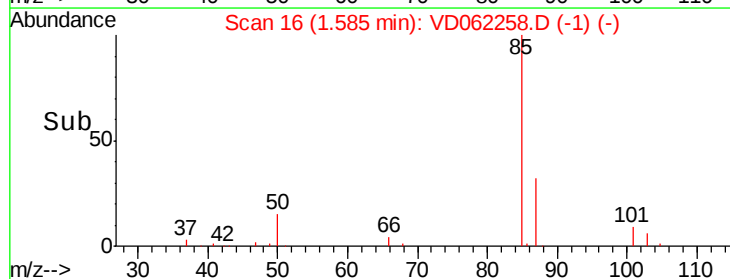
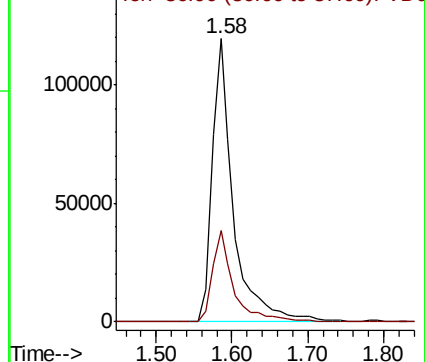
85 100

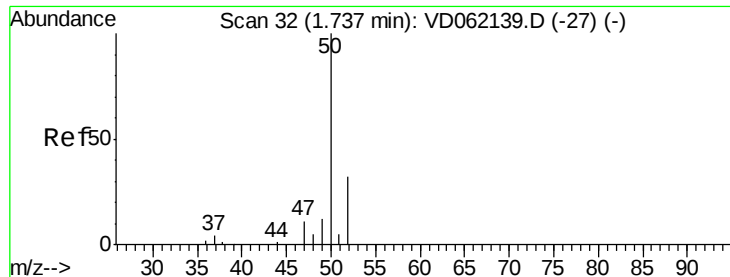
87 32.3 16.2 48.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 44.481 ug/l

RT: 1.76 min Scan# 34

Delta R.T. 0.03 min

Lab File: VD062258.D

Acq: 12 May 2019 14:52

Instrument :

MSVOA_D

ClientSampleId :

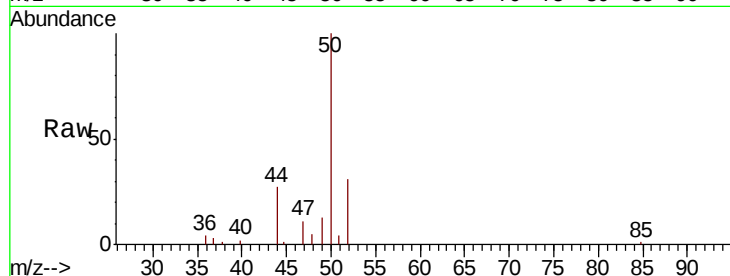
P021-SS001-0002-01MSD

Tot Ion: 50 Resp: 151440

Ion Ratio Lower Upper

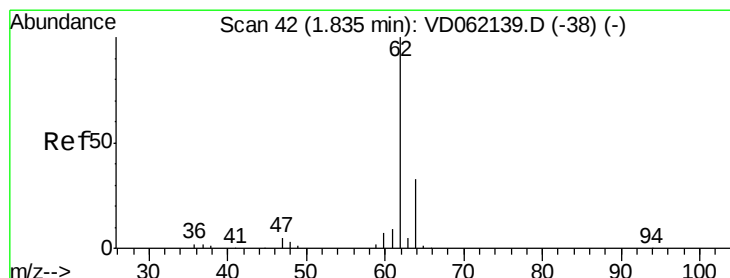
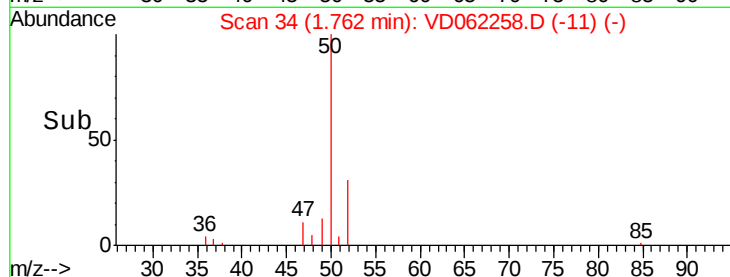
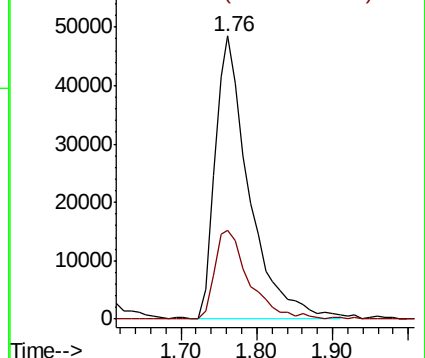
50 100

52 31.3 25.2 37.8



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 53.230 ug/l

RT: 1.86 min Scan# 44

Delta R.T. 0.03 min

Lab File: VD062258.D

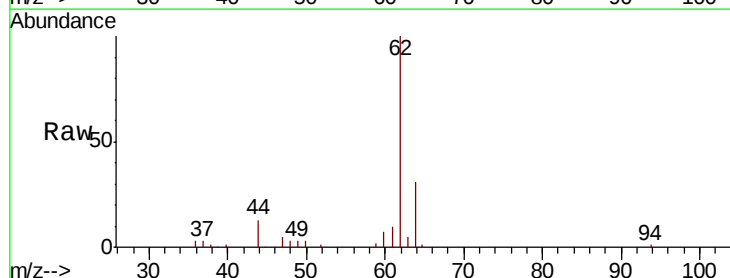
Acq: 12 May 2019 14:52

Tgt Ion: 62 Resp: 178105

Ion Ratio Lower Upper

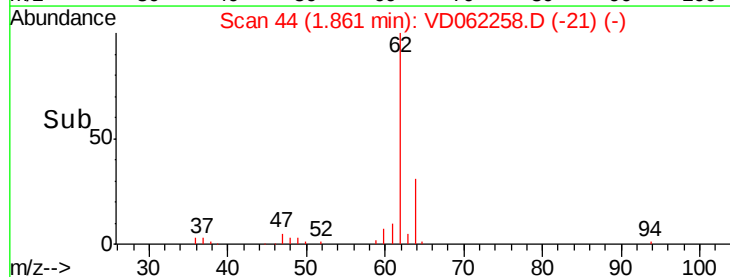
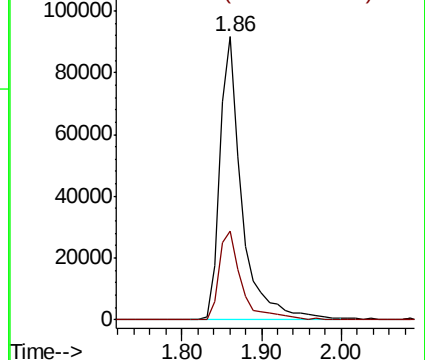
62 100

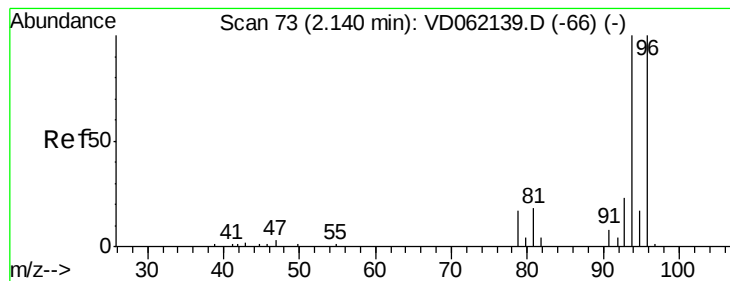
64 31.3 26.5 39.7



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 63.627 ug/l

RT: 2.17 min Scan# 75

Delta R.T. 0.03 min

Lab File: VD062258.D

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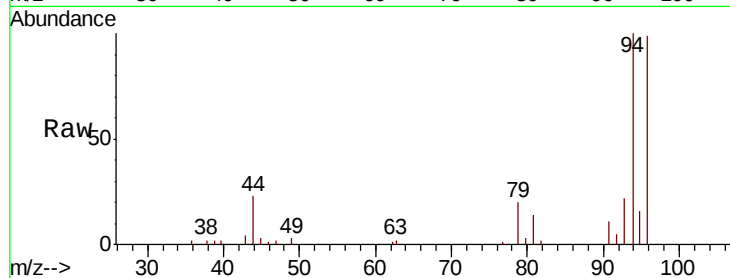
Tot Ion: 94 Resp: 49884

Ion Ratio Lower Upper

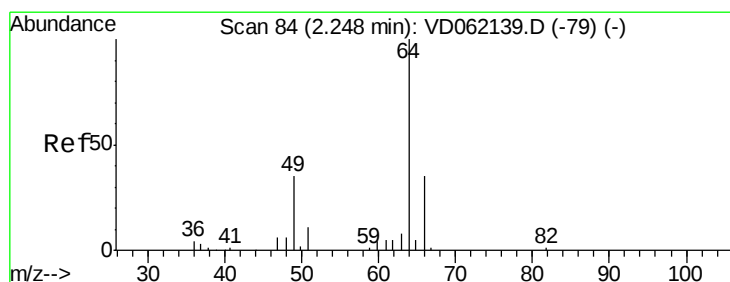
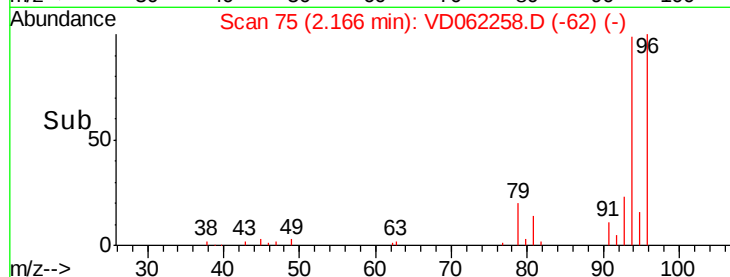
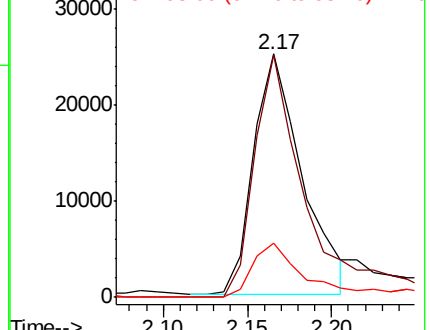
94 100

96 99.4 76.6 115.0

93 22.5 18.5 27.7



Abundance Ion 94.00 (93.70 to 94.70): VDC
Ion 96.00 (95.70 to 96.70): VDC
Ion 93.00 (92.70 to 93.70): VDC



#6

Chloroethane

Concen: 70.174 ug/l

RT: 2.28 min Scan# 87

Delta R.T. 0.04 min

Lab File: VD062258.D

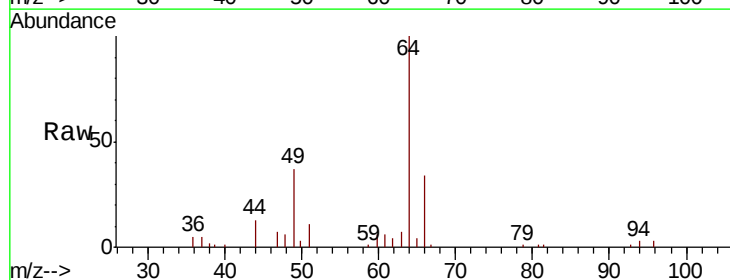
Acq: 12 May 2019 14:52

Tgt Ion: 64 Resp: 98525

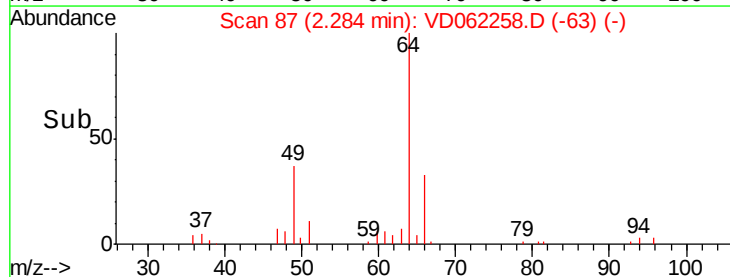
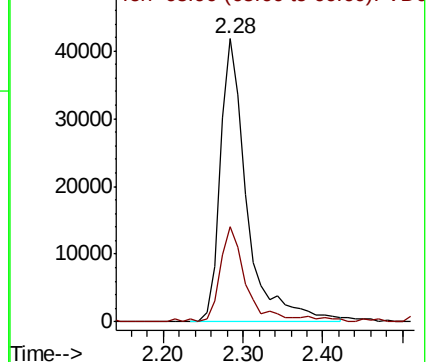
Ion Ratio Lower Upper

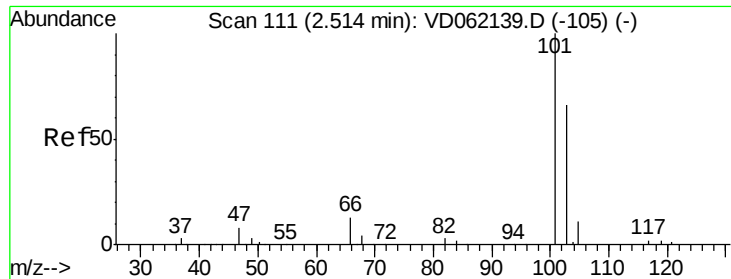
64 100

66 33.7 25.6 38.4



Abundance Ion 63.95 (63.65 to 64.65): VDC
Ion 65.90 (65.60 to 66.60): VDC



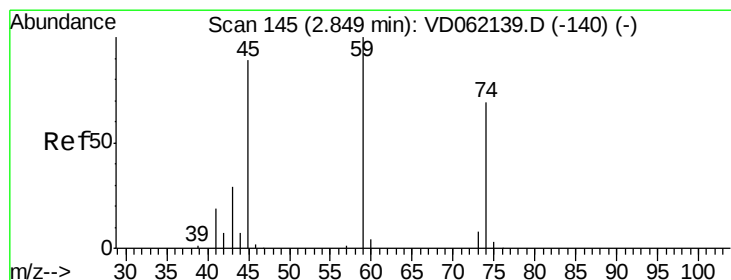
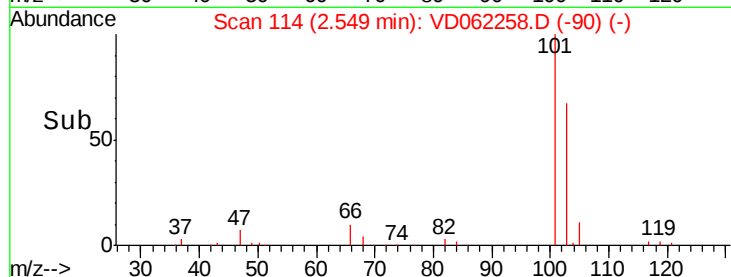
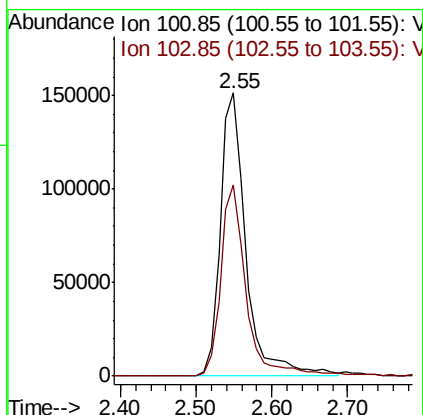
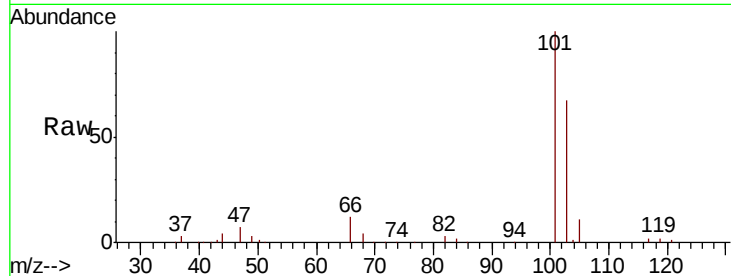


#7

Trichlorofluoromethane
 Concen: 54.660 ug/l
 RT: 2.55 min Scan# 114
 Delta R.T. 0.04 min
 Lab File: VD062258.D
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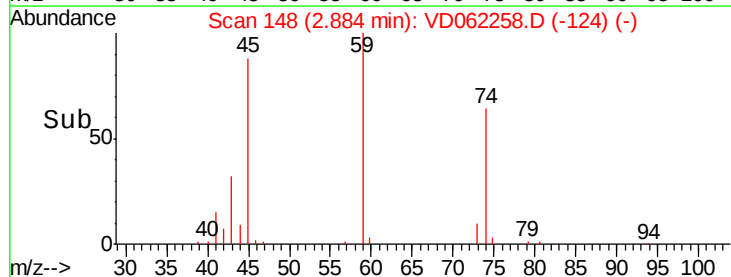
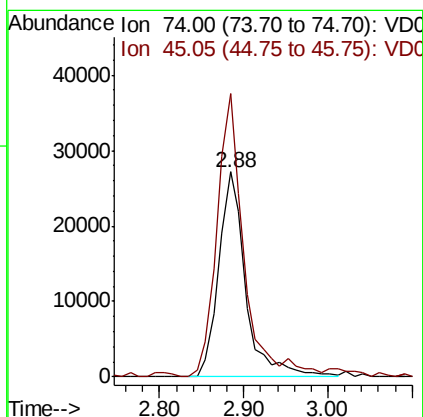
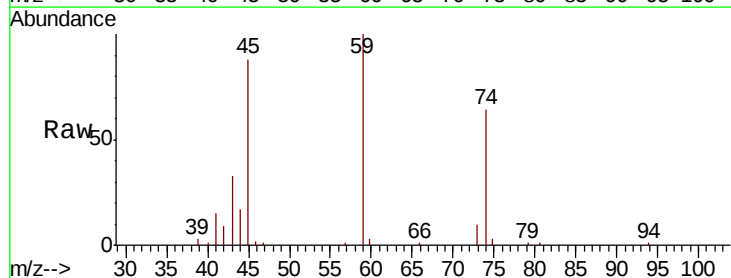
Tot Ion:101 Resp: 355567
 Ion Ratio Lower Upper
 101 100
 103 67.4 53.6 80.4

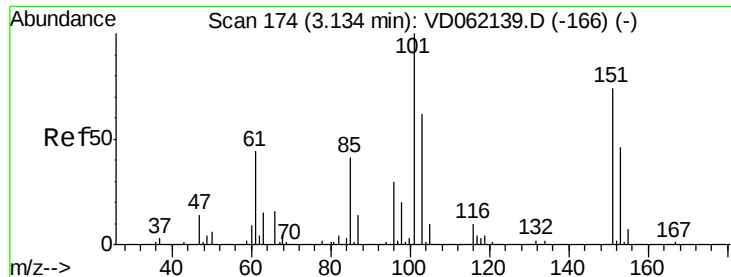


#8

Diethyl Ether
 Concen: 48.224 ug/l
 RT: 2.88 min Scan# 148
 Delta R.T. 0.04 min
 Lab File: VD062258.D
 Acq: 12 May 2019 14:52

Tgt Ion: 74 Resp: 60500
 Ion Ratio Lower Upper
 74 100
 45 138.1 56.9 170.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 39.344 ug/l

RT: 3.16 min Scan# 176

Delta R.T. 0.03 min

Lab File: VD062258.D

Acq: 12 May 2019 14:52

Instrument :

MSVOA_D

ClientSampleId :

P021-SS001-0002-01MSD

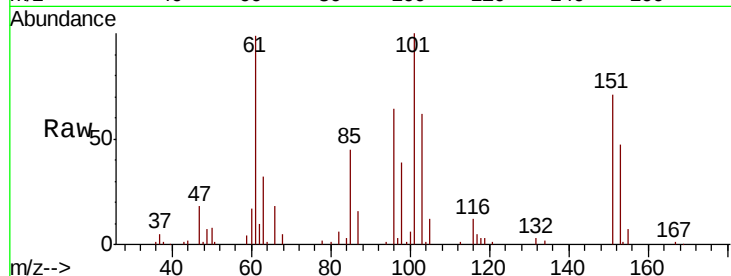
Tot Ion:101 Resp: 193606

Ion Ratio Lower Upper

101 100

85 45.0 32.4 48.6

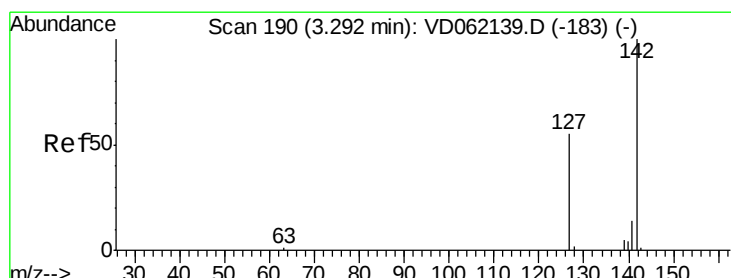
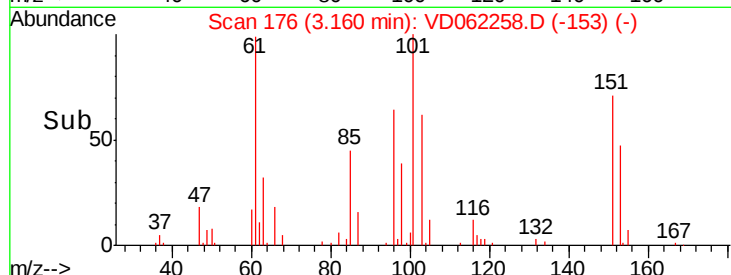
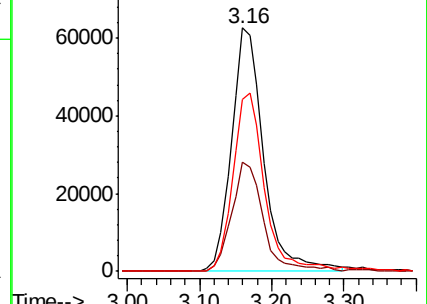
151 70.7 59.4 89.0



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: 15.206 ug/l

RT: 3.32 min Scan# 192

Delta R.T. 0.03 min

Lab File: VD062258.D

Acq: 12 May 2019 14:52

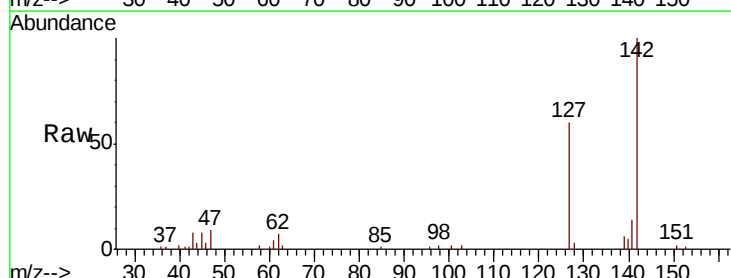
Tgt Ion:142 Resp: 113091

Ion Ratio Lower Upper

142 100

127 59.9 38.8 58.2#

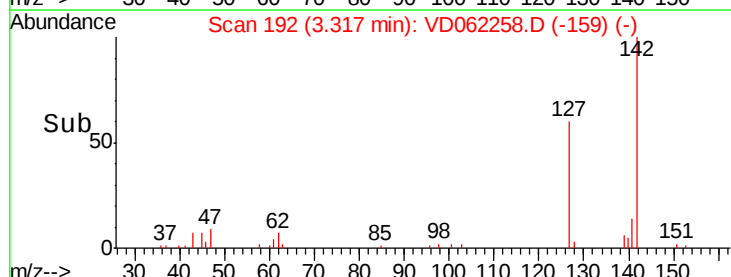
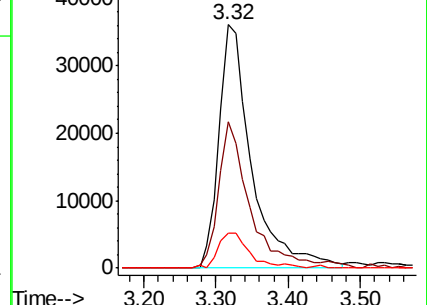
141 14.5 11.4 17.0

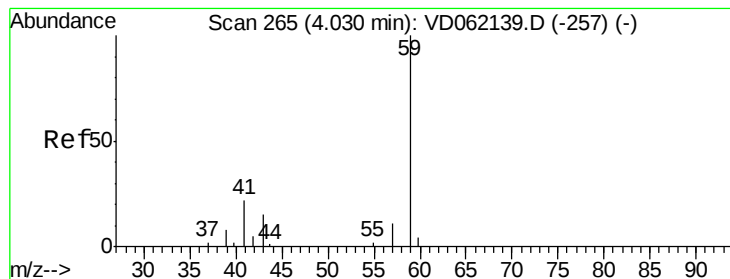


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



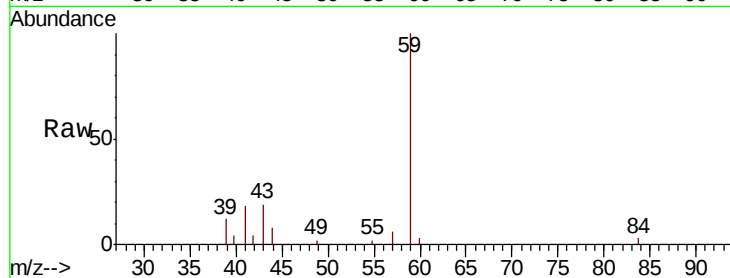


#11

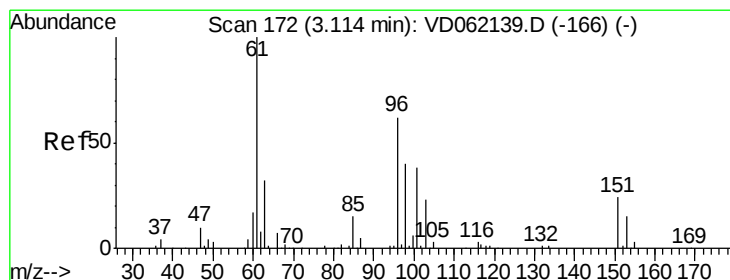
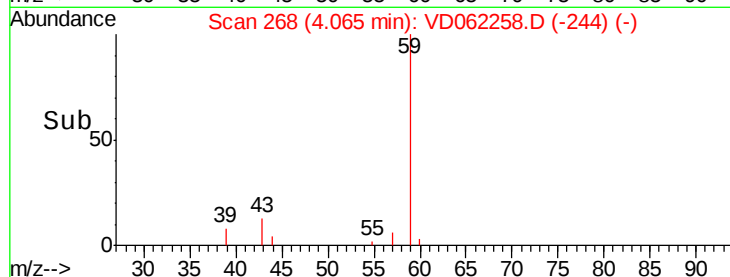
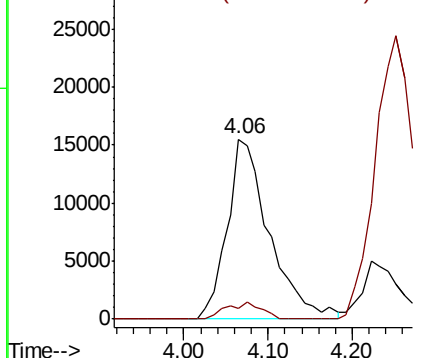
Tert butyl alcohol
Concen: 231.762 ug/l
RT: 4.06 min Scan# 268
Delta R.T. 0.04 min
Lab File: VD062258.D
Acq: 12 May 2019 14:52

Instrument :
MSVOA_D
ClientSampleId :
P021-SS001-0002-01MSD

Tot Ion: 59 Resp: 54161
Ion Ratio Lower Upper
59 100
57 5.7 6.9 10.3#



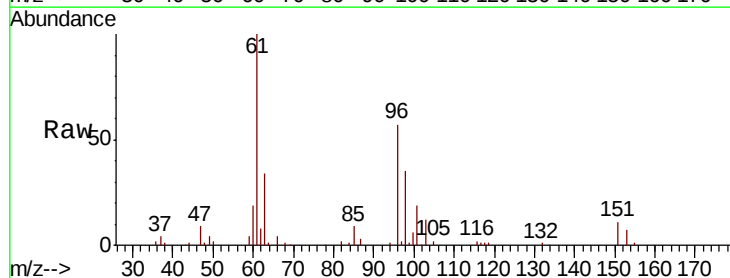
Abundance Ion 58.95 (58.65 to 59.65): VDC
Ion 56.95 (56.65 to 57.65): VDC



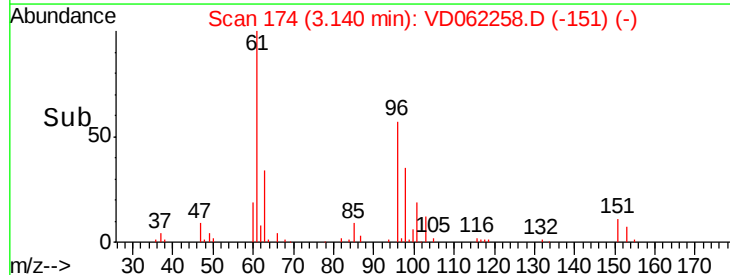
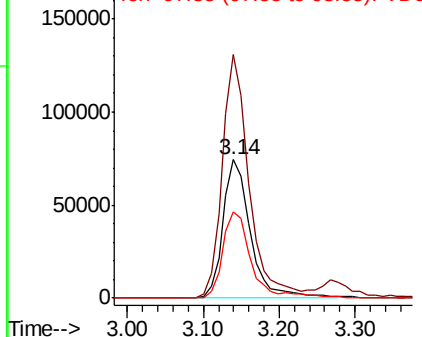
#12

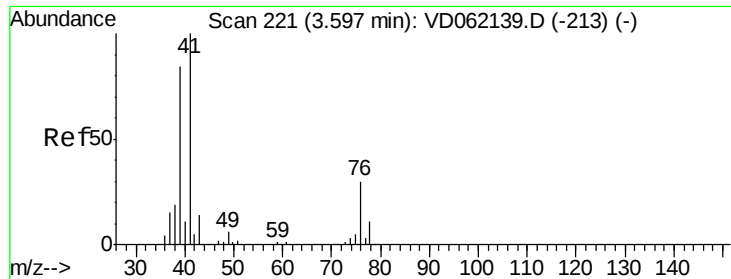
1,1-Dichloroethene
Concen: 50.150 ug/l
RT: 3.14 min Scan# 174
Delta R.T. 0.03 min
Lab File: VD062258.D
Acq: 12 May 2019 14:52

Tgt Ion: 96 Resp: 188382
Ion Ratio Lower Upper
96 100
61 176.2 129.8 194.8
98 62.0 51.2 76.8



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





#14

Allvl chloride

Concen: 45.145 ug/l

RT: 3.63 min Scan# 224

Delta R.T. 0.04 min

Lab File: VD062258.D

Acq: 12 May 2019 14:52

Instrument :

MSVOA_D

ClientSampleId :

P021-SS001-0002-01MSD

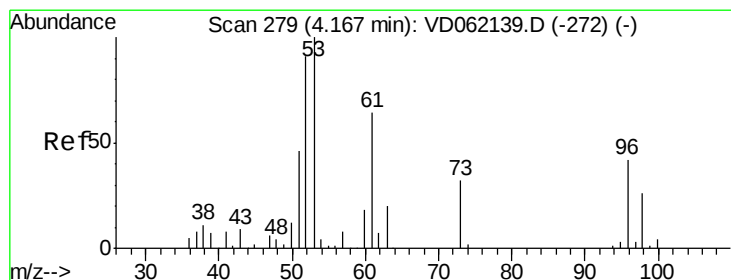
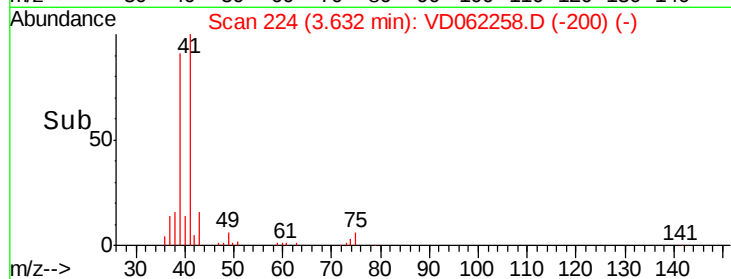
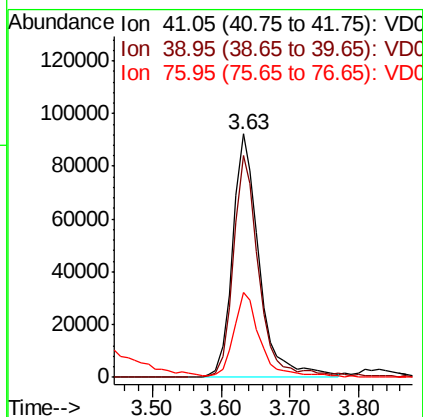
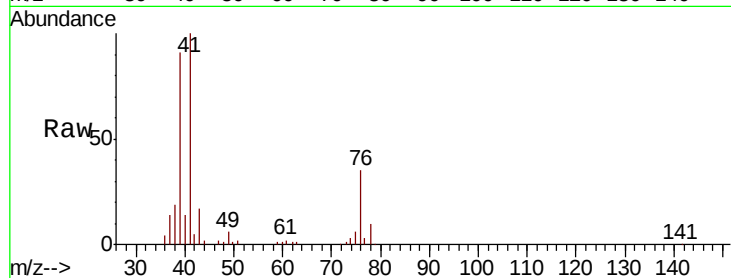
Tot Ion: 41 Resp: 246569

Ion Ratio Lower Upper

41 100

39 91.2 60.5 90.7#

76 34.7 31.8 47.8



#15

Acrylonitrile

Concen: 160.905 ug/l

RT: 4.21 min Scan# 283

Delta R.T. 0.05 min

Lab File: VD062258.D

Acq: 12 May 2019 14:52

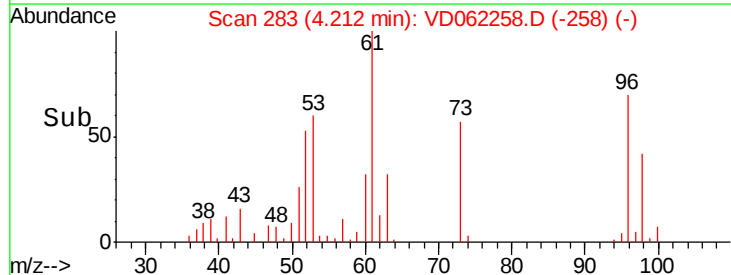
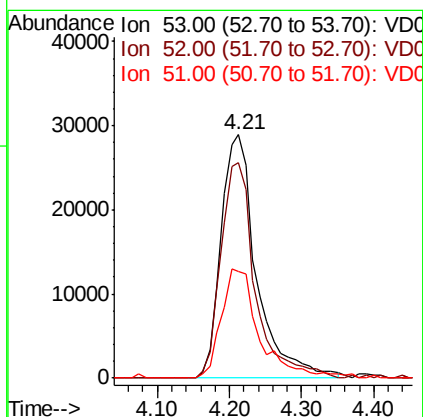
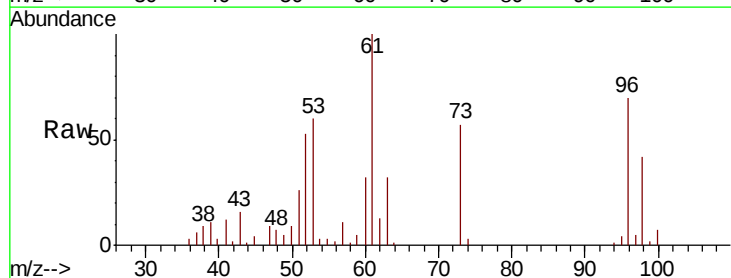
Tgt Ion: 53 Resp: 98836

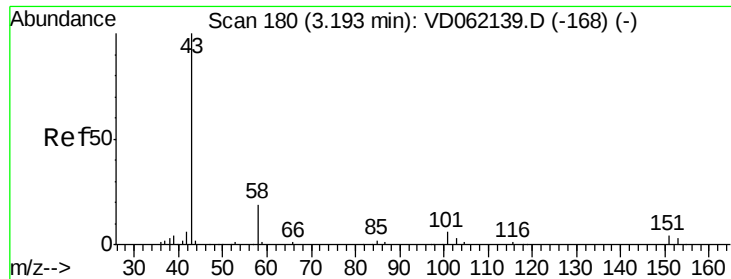
Ion Ratio Lower Upper

53 100

52 88.7 65.0 97.4

51 43.9 32.6 48.8

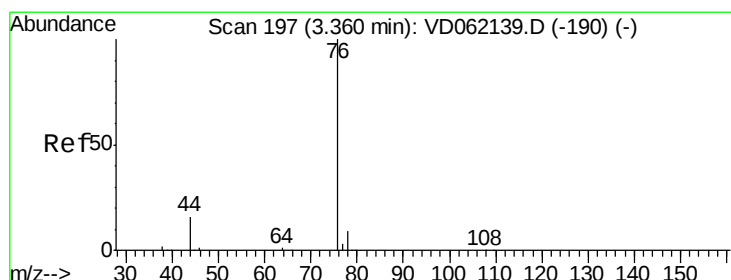
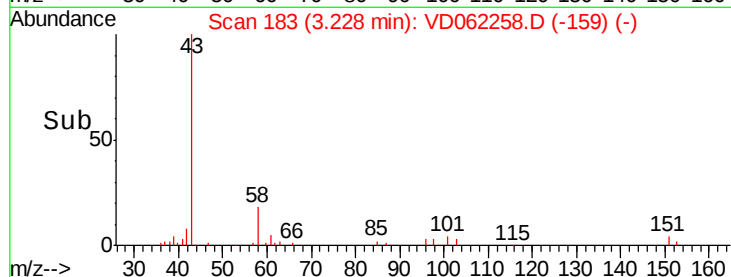
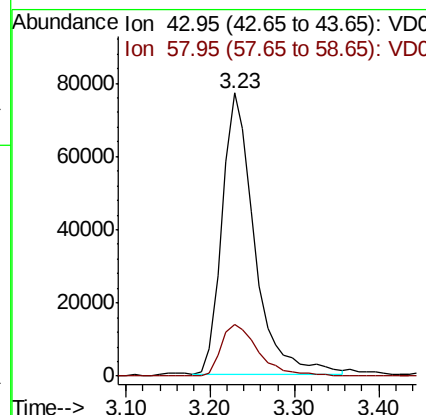
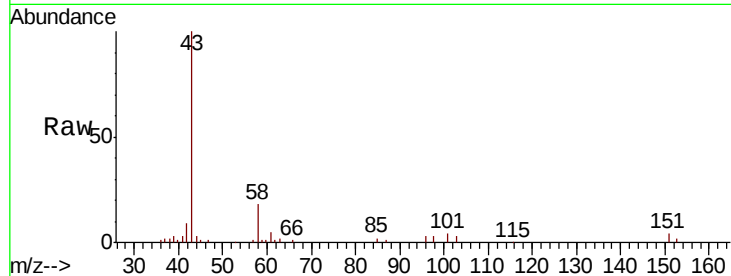




#16
Acetone
Concen: 215.588 ug/l
RT: 3.23 min Scan# 183
Delta R.T. 0.04 min
Lab File: VD062258.D
Acq: 12 May 2019 14:52

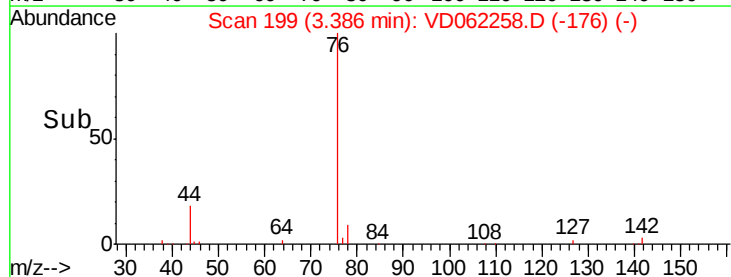
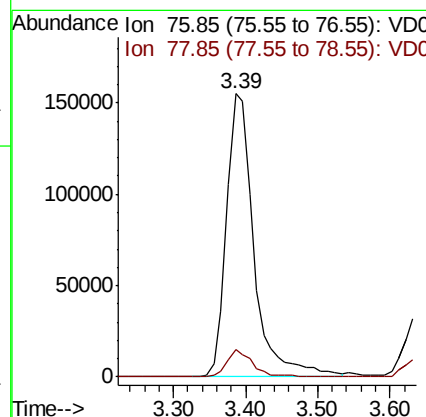
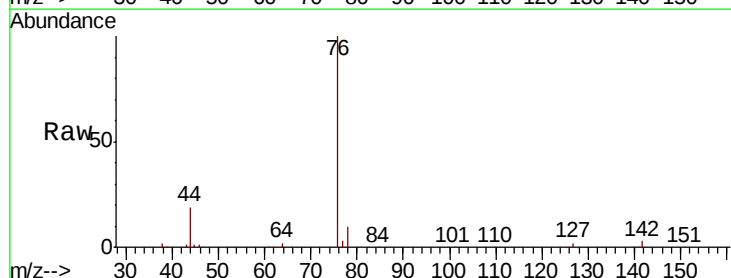
Instrument :
MSVOA_D
ClientSampleId :
P021-SS001-0002-01MSD

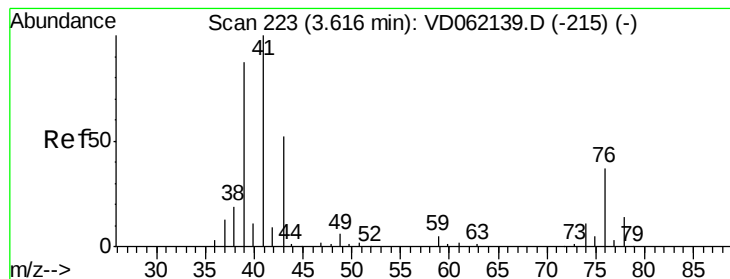
Tot Ion: 43 Resp: 206986
Ion Ratio Lower Upper
43 100
58 18.1 19.9 29.9#



#17
Carbon Disulfide
Concen: 37.938 ug/l
RT: 3.39 min Scan# 199
Delta R.T. 0.03 min
Lab File: VD062258.D
Acq: 12 May 2019 14:52

Tgt Ion: 76 Resp: 409948
Ion Ratio Lower Upper
76 100
78 9.9 7.2 10.8





#18

Methyl Acetate

Concen: 57.369 ug/l

RT: 3.65 min Scan# 226

Delta R.T. 0.04 min

Lab File: VD062258.D

Acq: 12 May 2019 14:52

Instrument :

MSVOA_D

ClientSampleId :

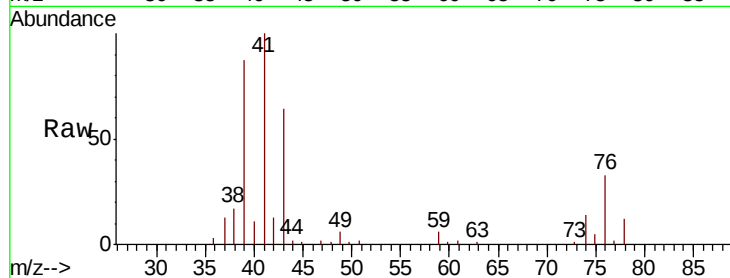
P021-SS001-0002-01MSD

Tot Ion: 43 Resp: 98432

Ion Ratio Lower Upper

43 100

74 21.1 18.0 27.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

3.65

40000

30000

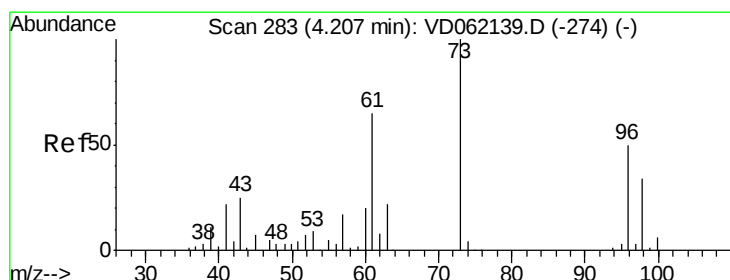
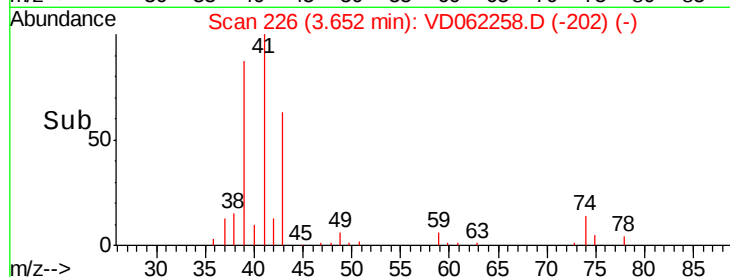
20000

10000

0

Time-->

3.50 3.60 3.70 3.80



#19

Methyl tert-butyl Ether

Concen: 58.291 ug/l

RT: 4.25 min Scan# 287

Delta R.T. 0.05 min

Lab File: VD062258.D

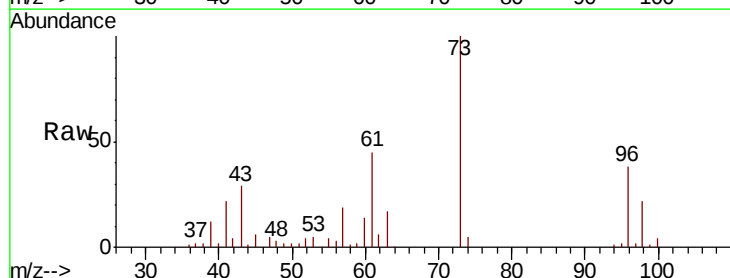
Acq: 12 May 2019 14:52

Tgt Ion: 73 Resp: 469331

Ion Ratio Lower Upper

73 100

57 19.1 16.3 24.5



Abundance Ion 73.00 (72.70 to 73.70): VDC

Ion 57.05 (56.75 to 57.75): VDC

4.25

150000

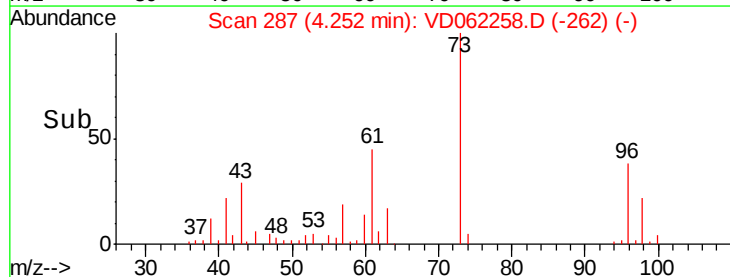
100000

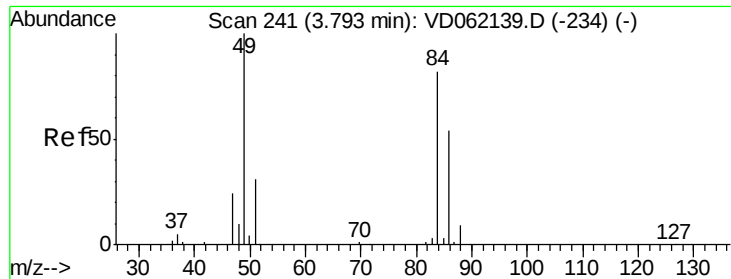
50000

0

Time-->

4.10 4.20 4.30 4.40

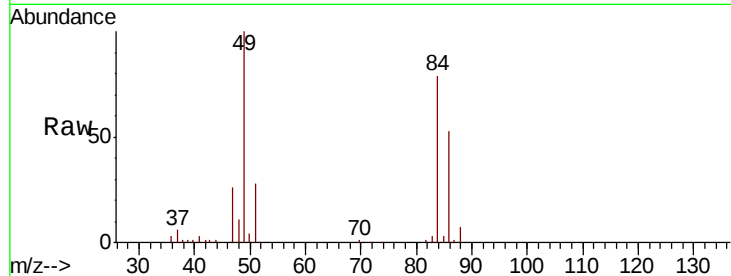




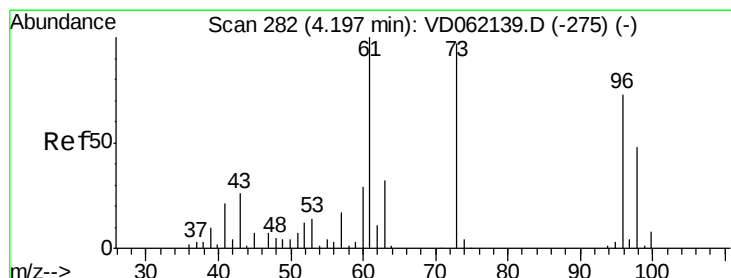
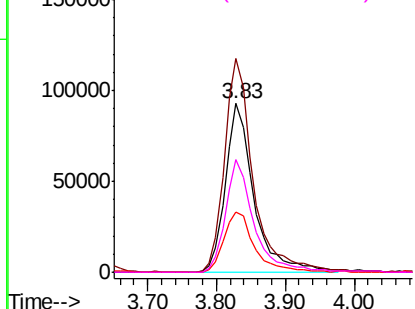
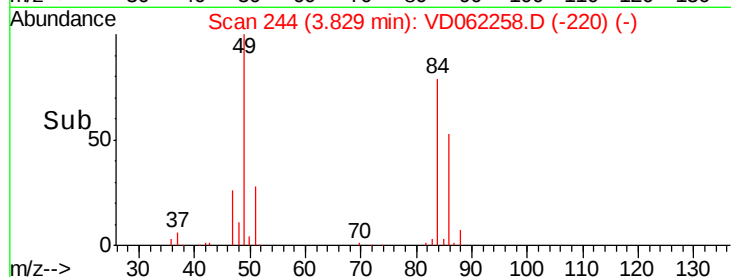
#20
Methylene Chloride
Concen: 66.557 ug/l
RT: 3.83 min Scan# 244
Delta R.T. 0.04 min
Lab File: VD062258.D
Acq: 12 May 2019 14:52

Instrument :
MSVOA_D
ClientSampleId :
P021-SS001-0002-01MSD

Tot Ion:	84	Resp:	266813
Ion	Ratio	Lower	Upper
84	100		
49	126.9	94.0	141.0
51	35.6	29.0	43.4
86	66.8	49.8	74.6

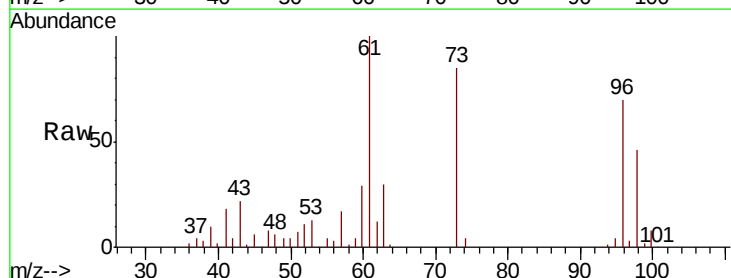


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

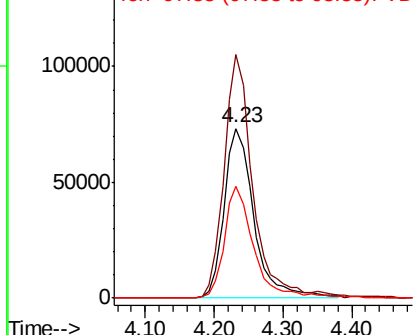
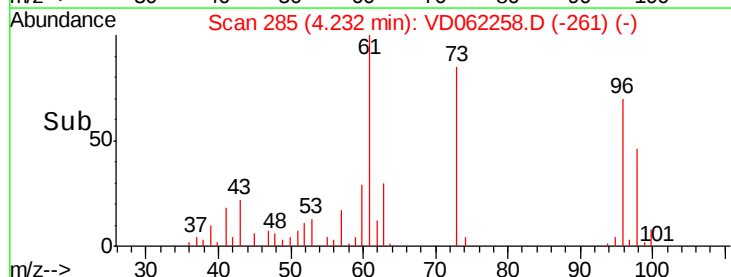


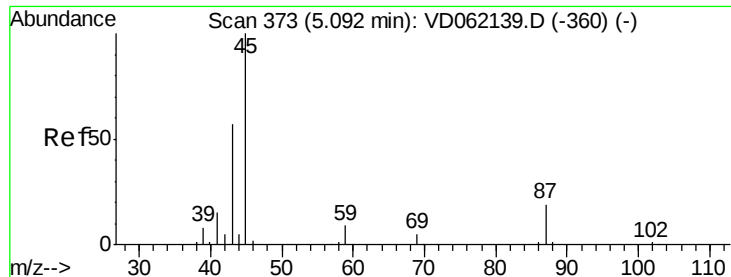
#21
trans-1,2-Dichloroethene
Concen: 52.725 ug/l
RT: 4.23 min Scan# 285
Delta R.T. 0.04 min
Lab File: VD062258.D
Acq: 12 May 2019 14:52

Tgt Ion:	96	Resp:	220388
Ion	Ratio	Lower	Upper
96	100		
61	143.7	104.4	156.6
98	65.9	51.8	77.8



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





#22

Diisopropyl ether

Concen: 65.814 ug/l

RT: 5.14 min Scan# 377

Delta R.T. 0.05 min

Lab File: VD062258.D

Acq: 12 May 2019 14:52

Instrument :

MSVOA_D

ClientSampleId :

P021-SS001-0002-01MSD

Tot Ion: 45 Resp: 764917

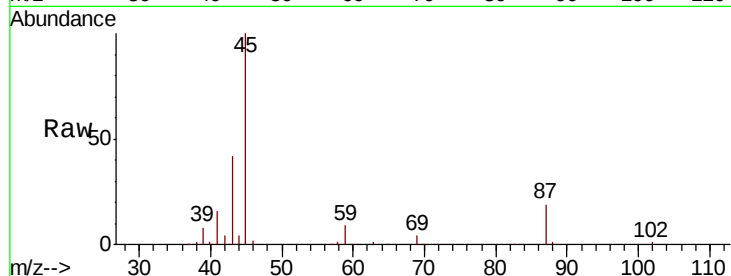
Ion Ratio Lower Upper

45 100

43 42.5 46.2 69.2#

87 18.5 15.9 23.9

59 8.7 7.9 11.9

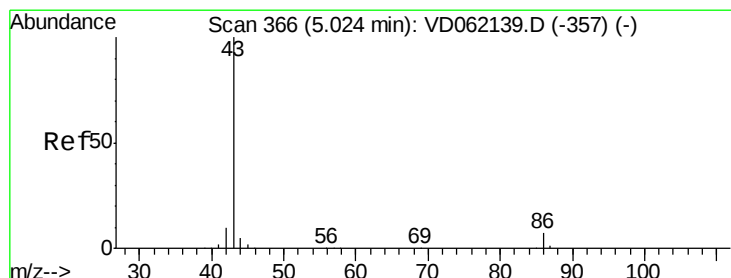
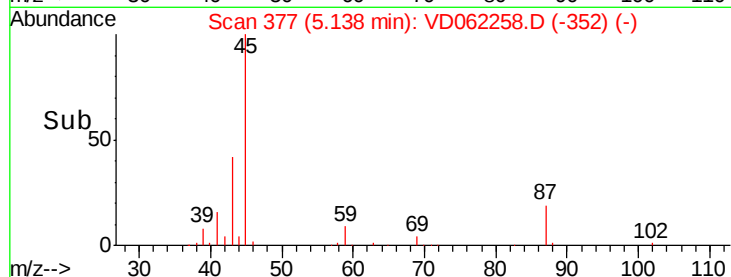
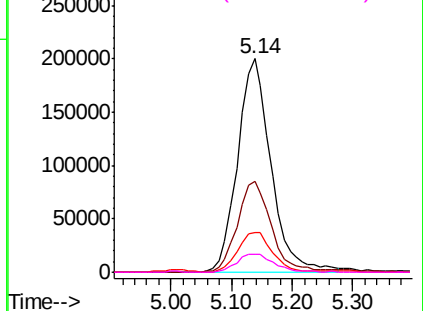


Abundance Ion 45.05 (44.75 to 45.75): VDC

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: 52.020 ug/l

RT: 5.14 min Scan# 377

Delta R.T. 0.11 min

Lab File: VD062258.D

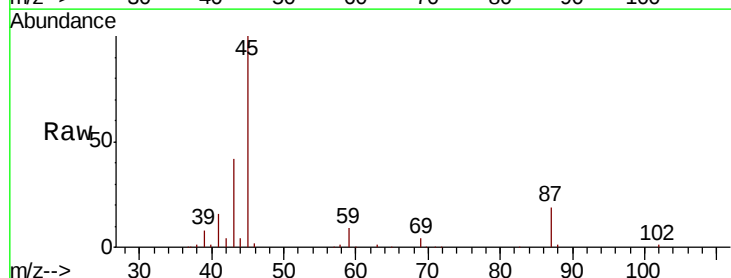
Acq: 12 May 2019 14:52

Tgt Ion: 43 Resp: 318990

Ion Ratio Lower Upper

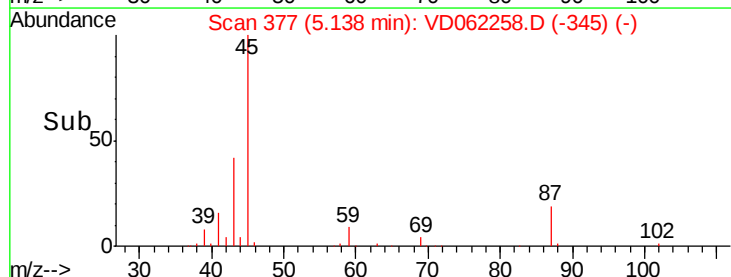
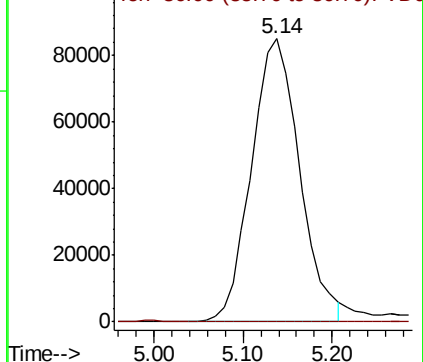
43 100

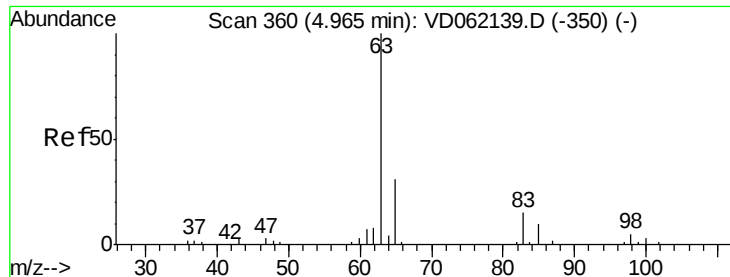
86 0.0 6.4 9.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC

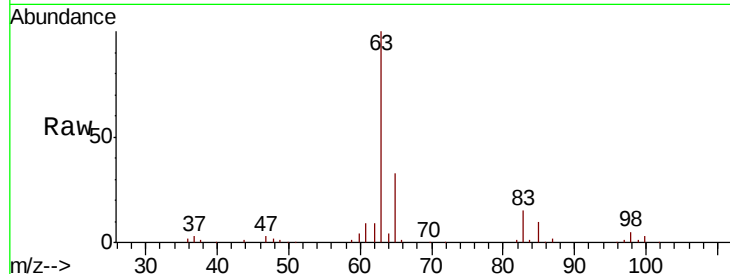




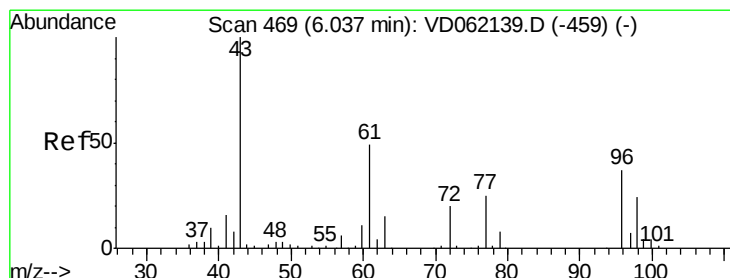
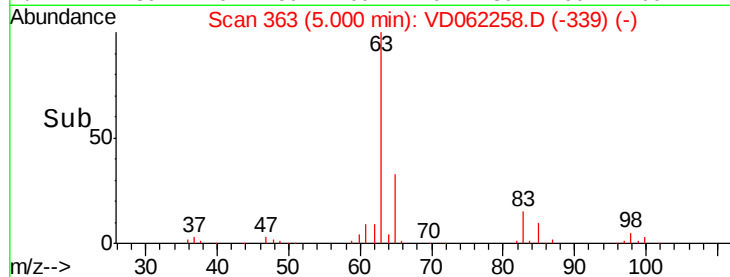
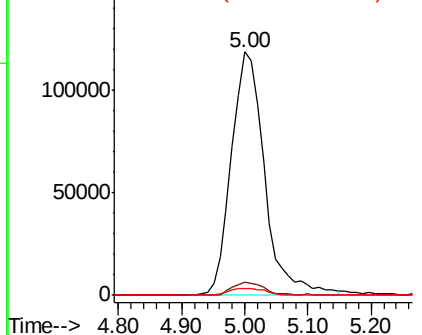
#24
 1,1-Dichloroethane
 Concen: 62.368 ug/l
 RT: 5.00 min Scan# 363
 Delta R.T. 0.04 min
 Lab File: VD062258.D
 Acq: 12 May 2019 14:52

Instrument :
 MSVOA_D
 ClientSampleId :
 P021-SS001-0002-01MSD

Tot Ion: 63 Resp: 437280
 Ion Ratio Lower Upper
 63 100
 98 5.3 2.8 8.4
 100 3.0 1.8 5.5

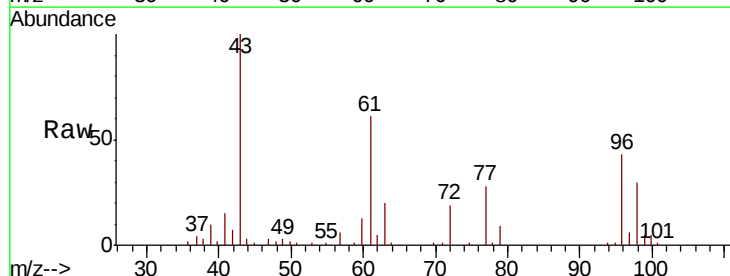


Abundance Ion 62.95 (62.65 to 63.65): VDC
 Ion 97.95 (97.65 to 98.65): VDC
 Ion 99.95 (99.65 to 100.65): VDC

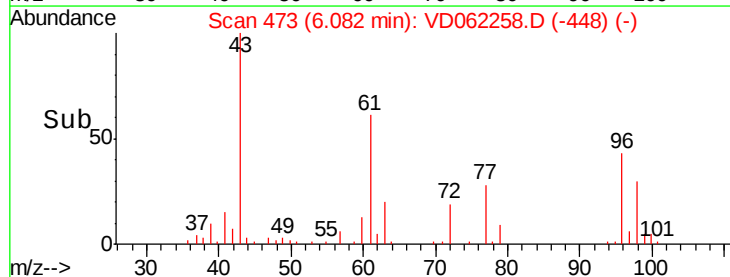
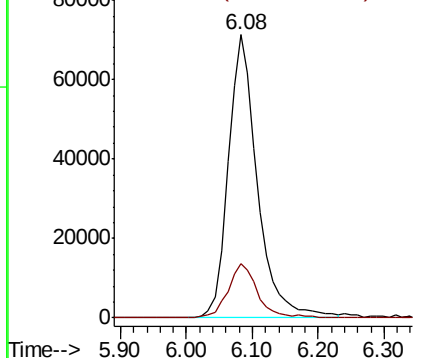


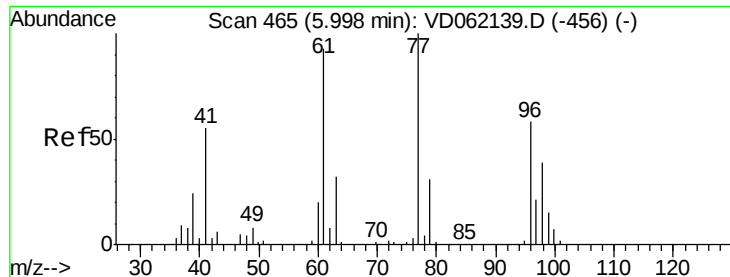
#25
 2-Butanone
 Concen: 209.977 ug/l
 RT: 6.08 min Scan# 473
 Delta R.T. 0.05 min
 Lab File: VD062258.D
 Acq: 12 May 2019 14:52

Tgt Ion: 43 Resp: 219896
 Ion Ratio Lower Upper
 43 100
 72 19.0 16.2 24.4



Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 72.00 (71.70 to 72.70): VDC





#26

2,2-Dichloropropane

Concen: 44.283 ug/l

RT: 6.04 min Scan# 469

Delta R.T. 0.05 min

Lab File: VD062258.D

Acq: 12 May 2019 14:52

Instrument :

MSVOA_D

ClientSampleId :

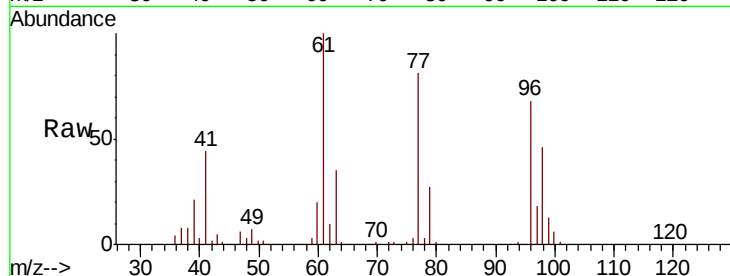
P021-SS001-0002-01MSD

Tot Ion: 77 Resp: 309274

Ion Ratio Lower Upper

77 100

97 22.1 11.9 35.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC

6.04

80000

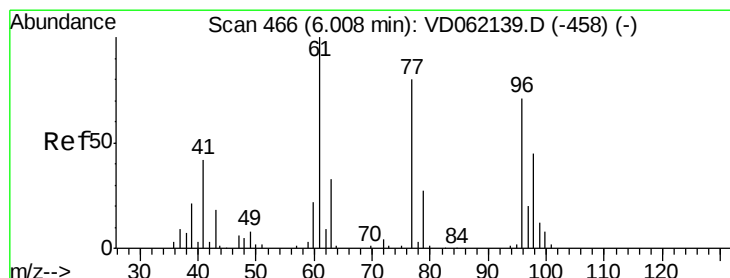
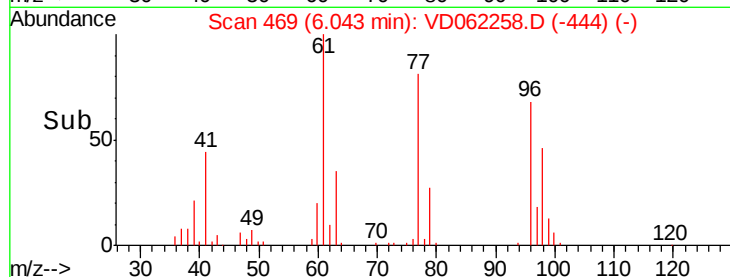
60000

40000

20000

0

Time-->



#27

cis-1,2-Dichloroethene

Concen: 56.968 ug/l

RT: 6.05 min Scan# 470

Delta R.T. 0.05 min

Lab File: VD062258.D

Acq: 12 May 2019 14:52

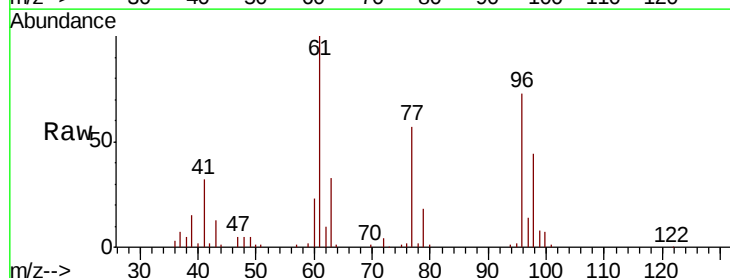
Tgt Ion: 96 Resp: 266537

Ion Ratio Lower Upper

96 100

61 136.9 0.0 279.8

98 60.3 0.0 136.0



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

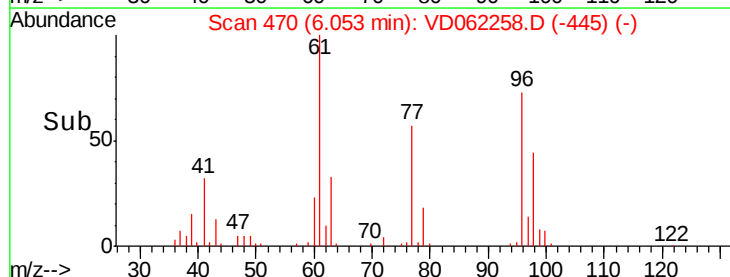
150000

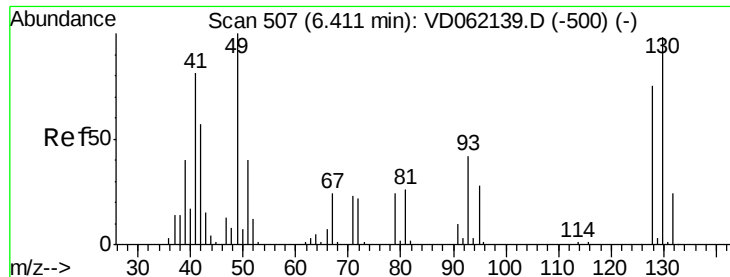
100000

50000

0

Time-->





#28

Bromochloromethane

Concen: 79.095 ug/l

RT: 6.46 min Scan# 511

Delta R.T. 0.05 min

Lab File: VD062258.D

Acq: 12 May 2019 14:52

Instrument :

MSVOA_D

ClientSampleId :

P021-SS001-0002-01MSD

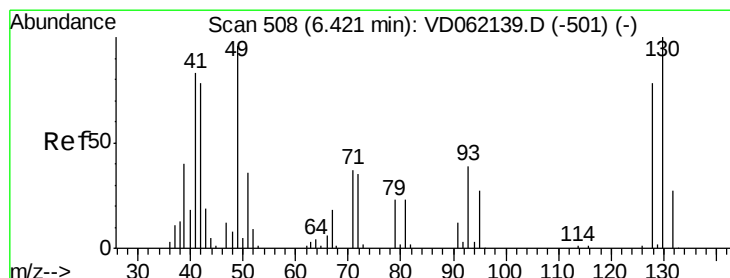
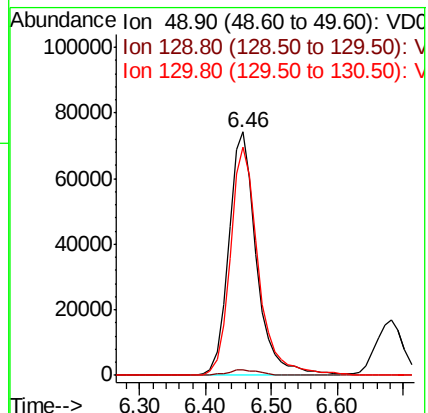
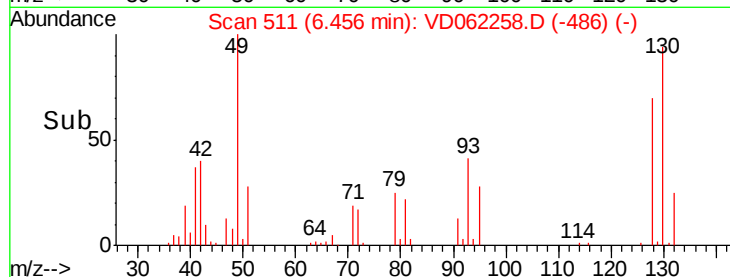
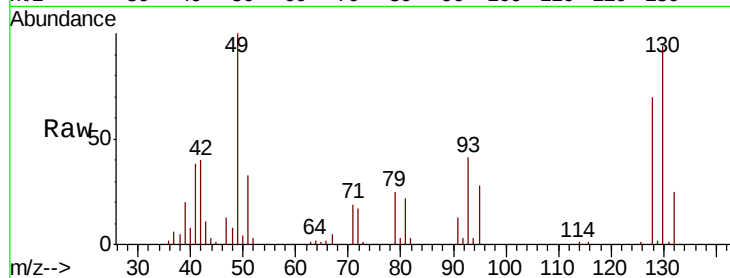
Tot Ion: 49 Resp: 218184

Ion Ratio Lower Upper

49 100

129 2.5 0.0 6.6

130 93.9 86.7 130.1



#29

Tetrahydrofuran

Concen: 278.366 ug/l

RT: 6.47 min Scan# 512

Delta R.T. 0.05 min

Lab File: VD062258.D

Acq: 12 May 2019 14:52

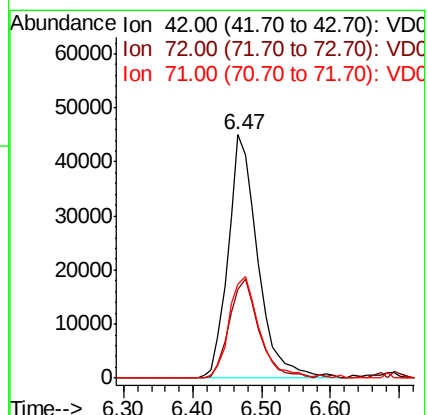
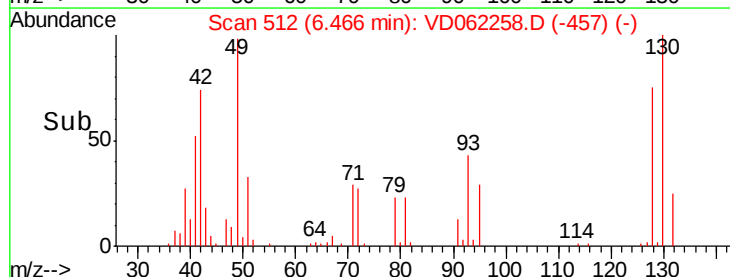
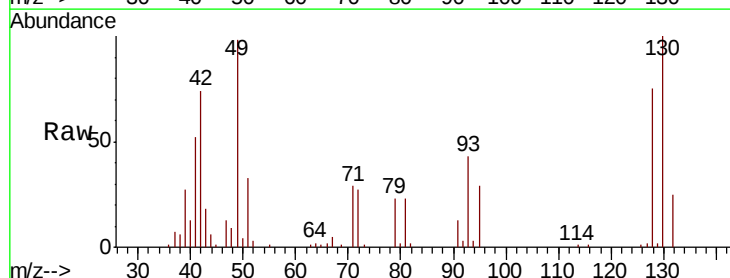
Tgt Ion: 42 Resp: 134318

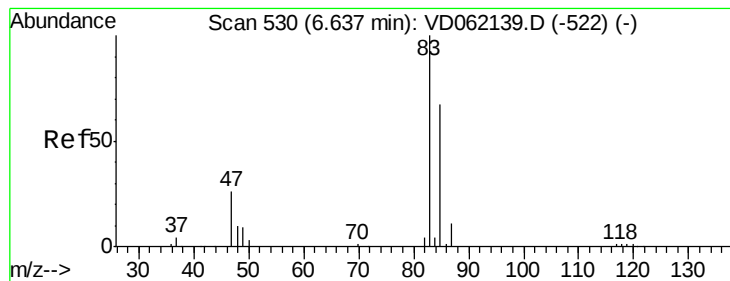
Ion Ratio Lower Upper

42 100

72 40.8 37.8 56.6

71 42.9 36.7 55.1





#30

Chloroform

Concen: 61.765 ug/l

RT: 6.68 min Scan# 534

Delta R.T. 0.05 min

Lab File: VD062258.D

Acq: 12 May 2019 14:52

Instrument :

MSVOA_D

ClientSampleId :

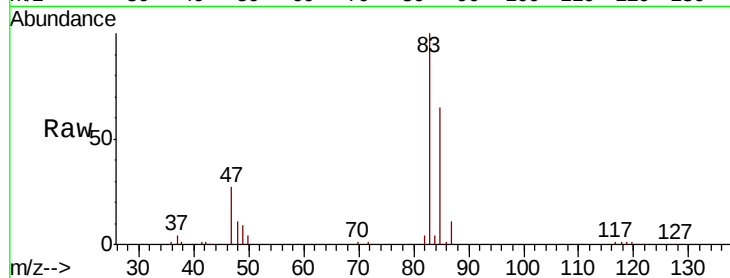
P021-SS001-0002-01MSD

Tot Ion: 83 Resp: 521907

Ion Ratio Lower Upper

83 100

85 65.5 51.7 77.5



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

6.68

200000

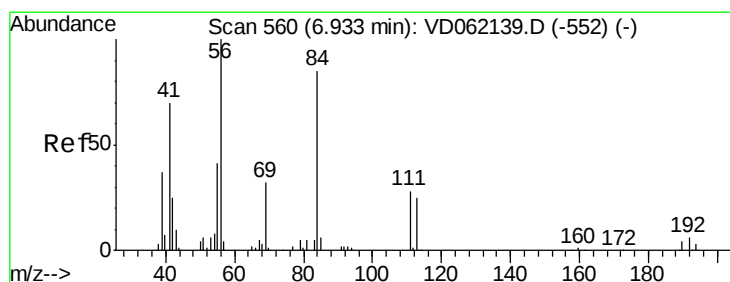
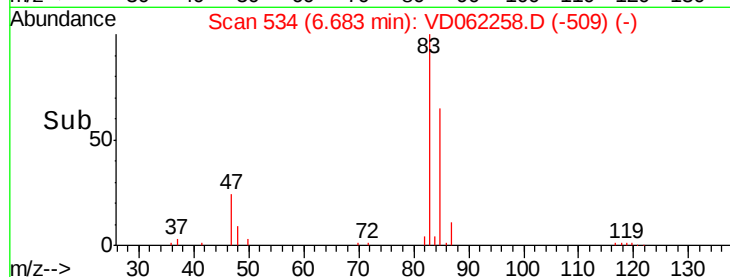
150000

100000

50000

0

Time--> 6.50 6.60 6.70 6.80



#31

Cyclohexane

Concen: 31.449 ug/l

RT: 6.97 min Scan# 563

Delta R.T. 0.04 min

Lab File: VD062258.D

Acq: 12 May 2019 14:52

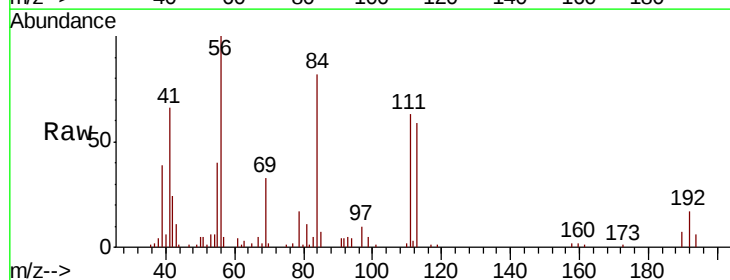
Tgt Ion: 56 Resp: 151063

Ion Ratio Lower Upper

56 100

69 33.3 25.8 38.6

84 81.5 72.2 108.4



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

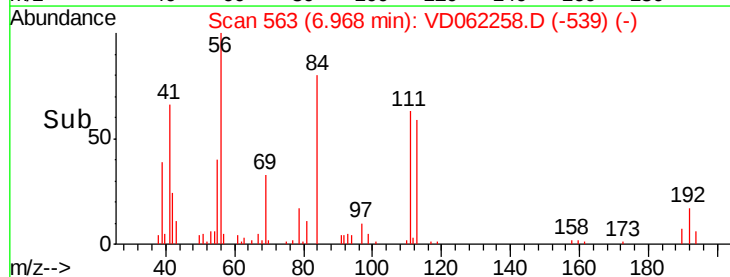
150000

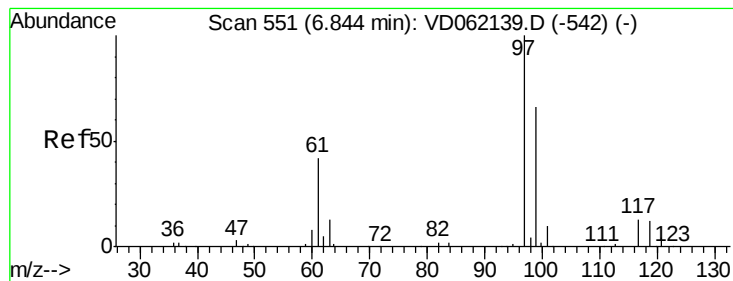
100000

50000

0

Time--> 6.90 7.00 7.10





#32

1,1,1-Trichloroethane

Concen: 54.663 ug/l

RT: 6.89 min Scan# 555

Delta R.T. 0.05 min

Lab File: VD062258.D

Acq: 12 May 2019 14:52

Instrument :

MSVOA_D

ClientSampleId :

P021-SS001-0002-01MSD

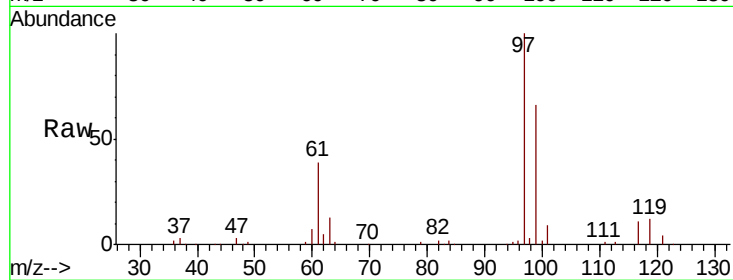
Tot Ion: 97 Resp: 436580

Ion Ratio Lower Upper

97 100

99 66.0 52.2 78.2

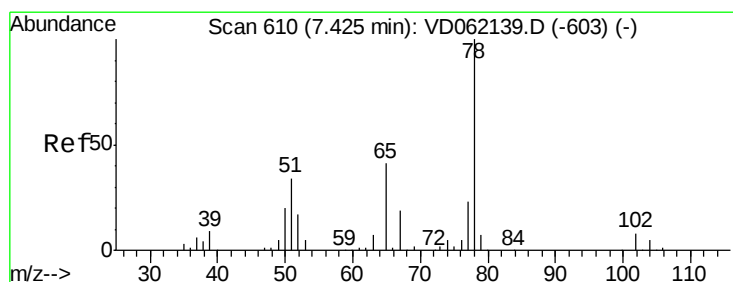
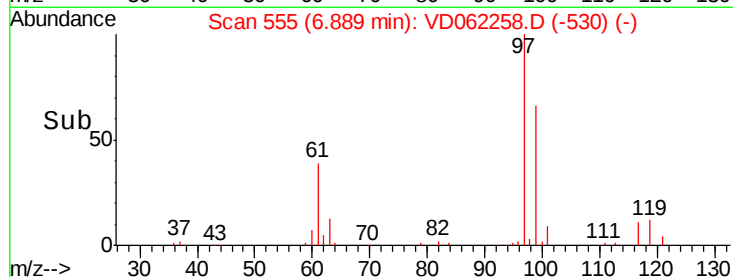
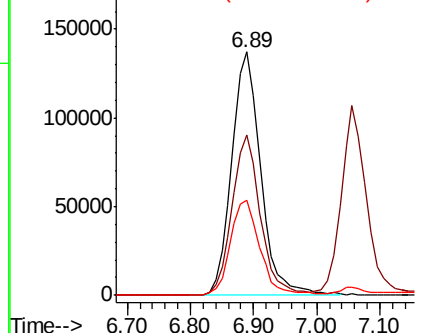
61 39.2 32.4 48.6



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: 50.484 ug/l

RT: 7.47 min Scan# 614

Delta R.T. 0.05 min

Lab File: VD062258.D

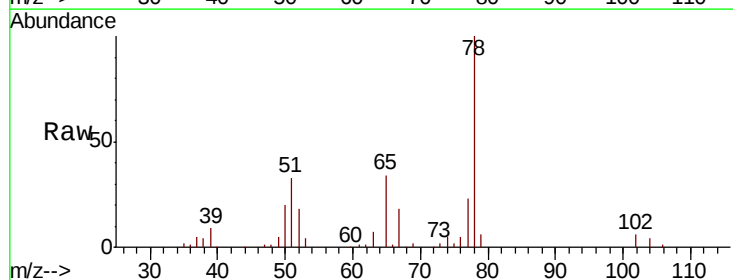
Acq: 12 May 2019 14:52

Tgt Ion: 65 Resp: 231125

Ion Ratio Lower Upper

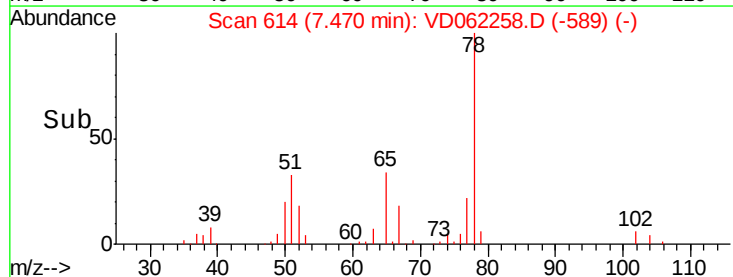
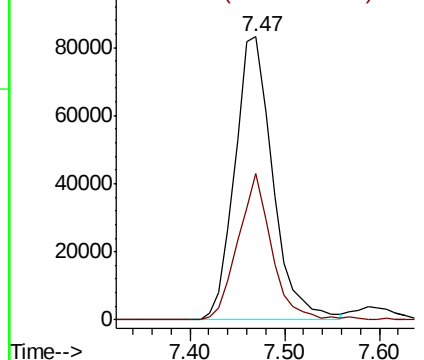
65 100

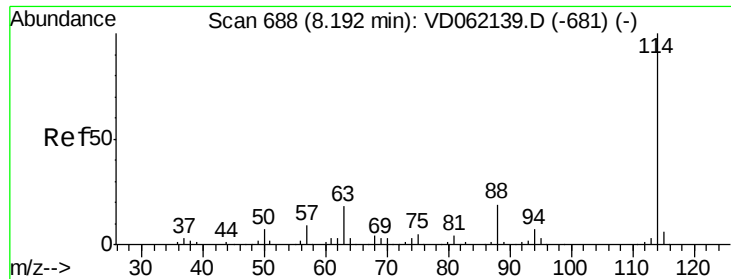
67 51.7 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

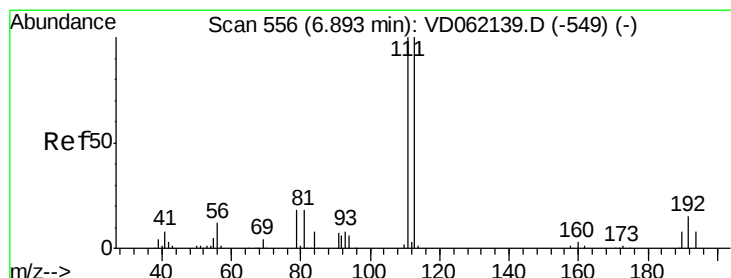
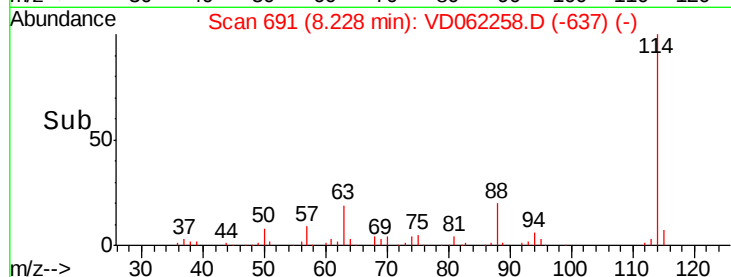
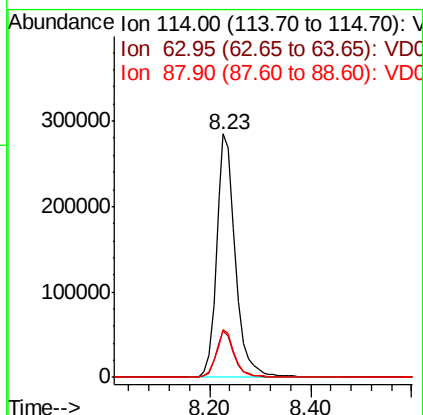
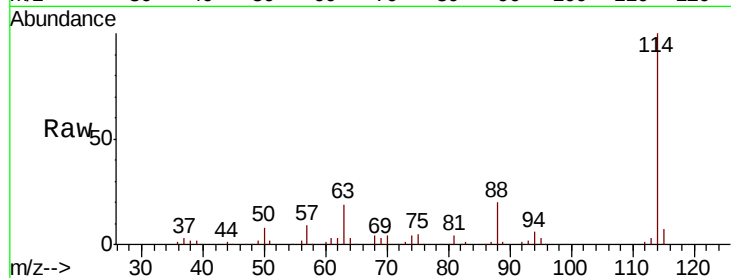




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 691
 Delta R.T. 0.04 min
 Lab File: VD062258.D
 Acq: 12 May 2019 14:52

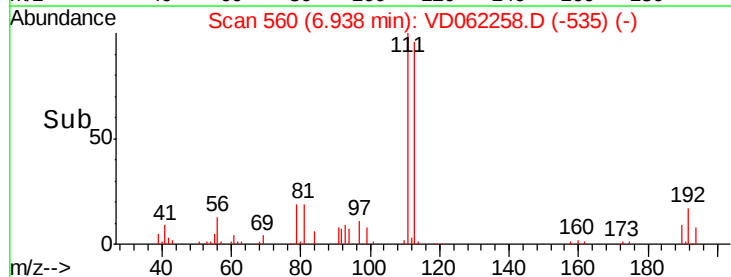
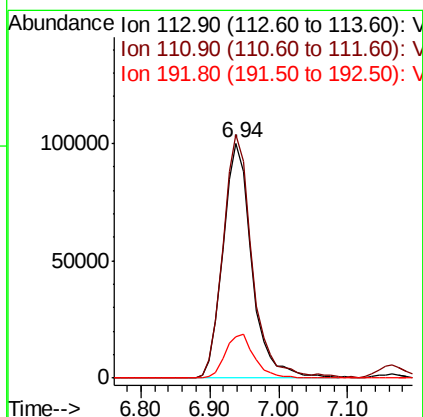
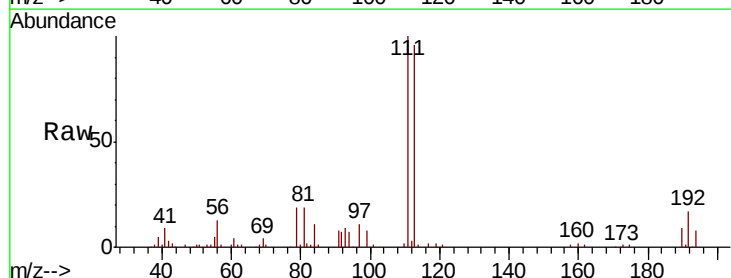
Instrument :
 MSVOA_D
 ClientSampleId :
 P021-SS001-0002-01MSD

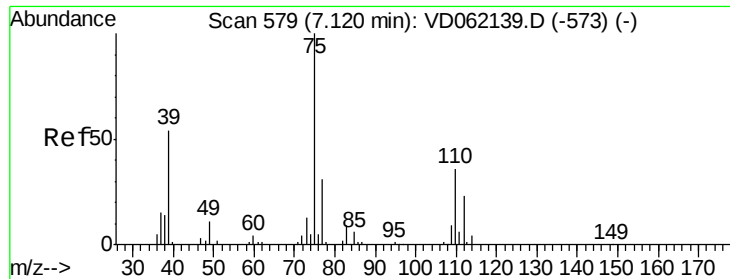
Tot Ion:114 Resp: 740057
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 32.4
 88 19.8 0.0 33.6



#35
 Dibromofluoromethane
 Concen: 47.420 ug/l
 RT: 6.94 min Scan# 560
 Delta R.T. 0.05 min
 Lab File: VD062258.D
 Acq: 12 May 2019 14:52

Tgt Ion:113 Resp: 291173
 Ion Ratio Lower Upper
 113 100
 111 103.7 78.5 117.7
 192 17.5 13.0 19.4





#36

1,1-Dichloropropene

Concen: 40.208 ug/l

RT: 7.15 min Scan# 582

Delta R.T. 0.04 min

Lab File: VD062258.D

Acq: 12 May 2019 14:52

Instrument :

MSVOA_D

ClientSampleId :

P021-SS001-0002-01MSD

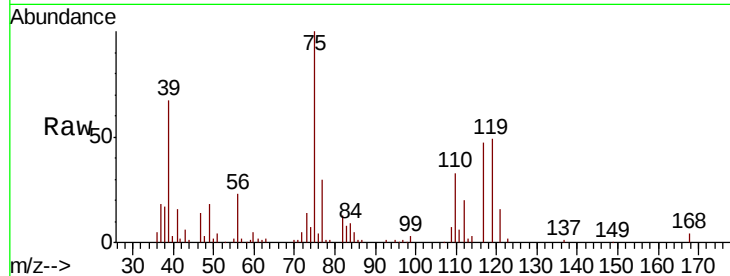
Tot Ion: 75 Resp: 243972

Ion Ratio Lower Upper

75 100

110 33.5 19.1 57.1

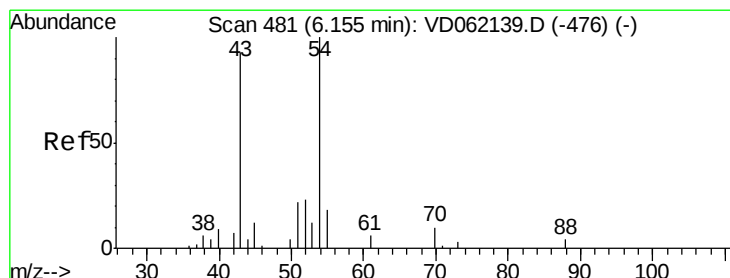
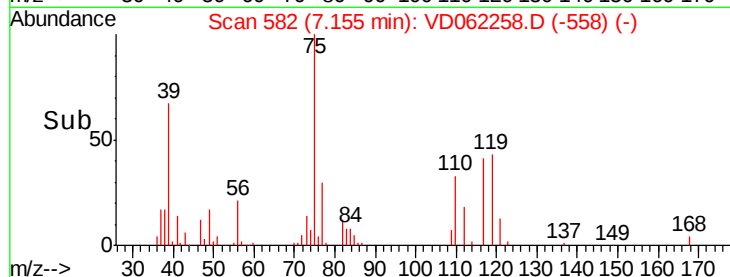
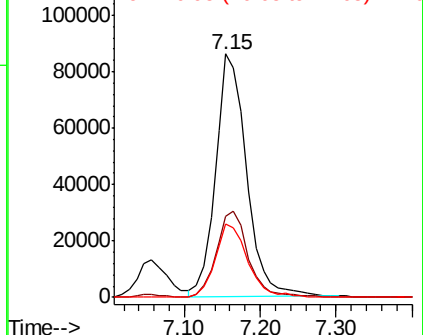
77 30.2 25.6 38.4



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.95 (76.65 to 77.65): VDC



#37

Ethyl Acetate

Concen: 86.016 ug/l

RT: 6.08 min Scan# 473

Delta R.T. -0.07 min

Lab File: VD062258.D

Acq: 12 May 2019 14:52

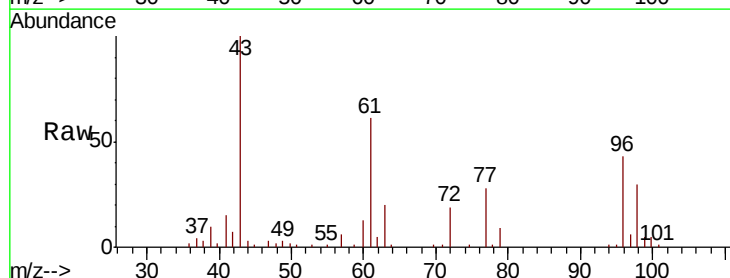
Tgt Ion: 43 Resp: 221342

Ion Ratio Lower Upper

43 100

61 61.2 14.7 22.1#

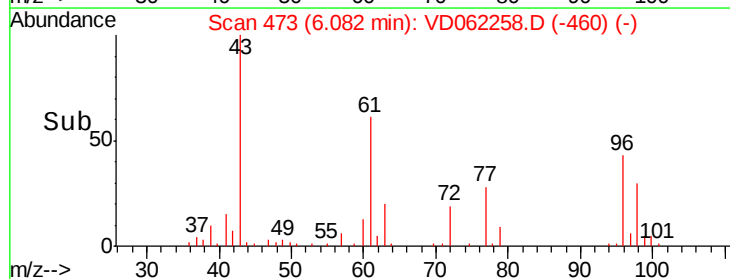
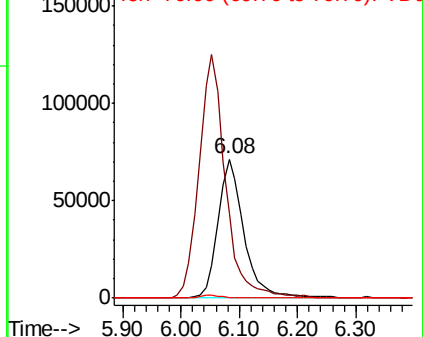
70 0.0 7.8 11.6#

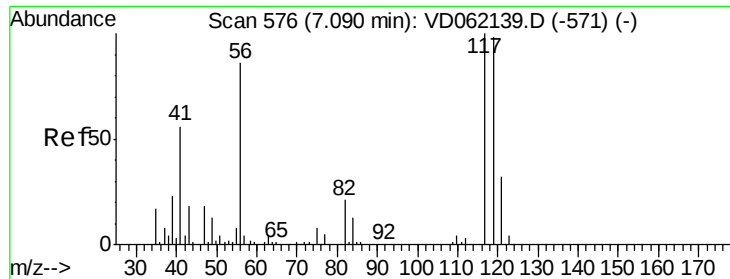


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

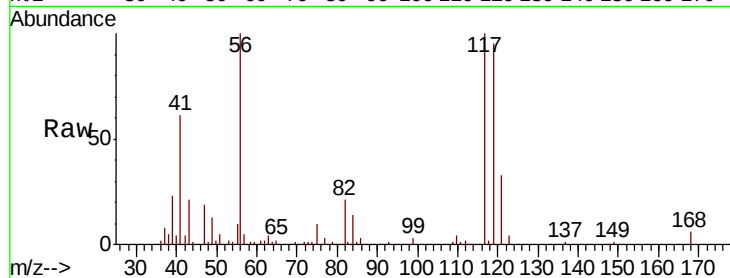




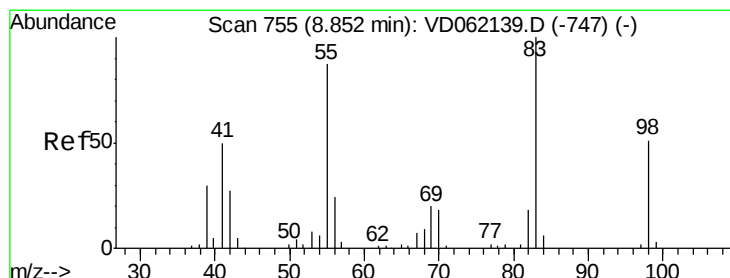
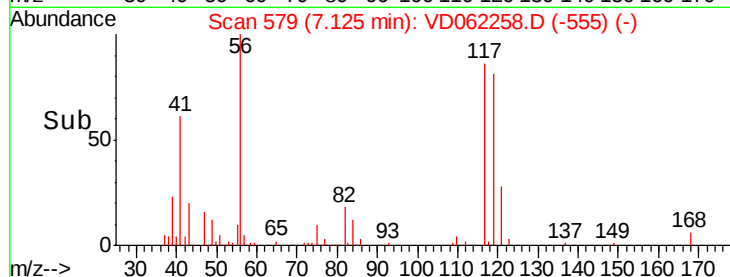
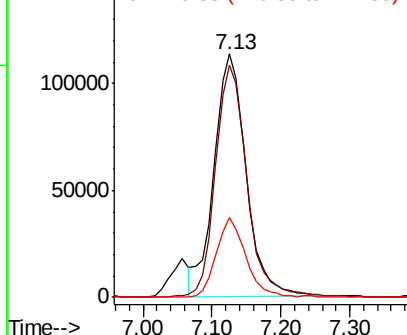
#38
Carbon Tetrachloride
Concen: 43.543 ug/l
RT: 7.13 min Scan# 579
Delta R.T. 0.04 min
Lab File: VD062258.D
Acq: 12 May 2019 14:52

Instrument :
MSVOA_D
ClientSampleId :
P021-SS001-0002-01MSD

Tot Ion:117 Resp: 365686
Ion Ratio Lower Upper
117 100
119 95.2 75.8 113.8
121 32.8 25.9 38.9

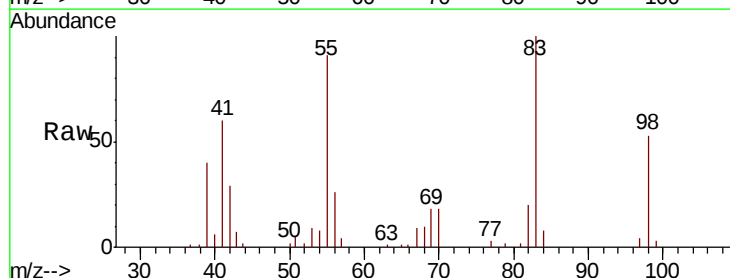


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

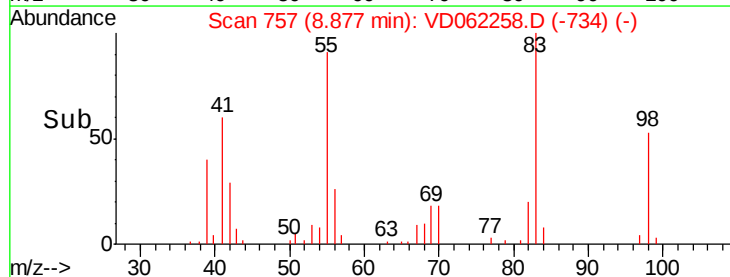
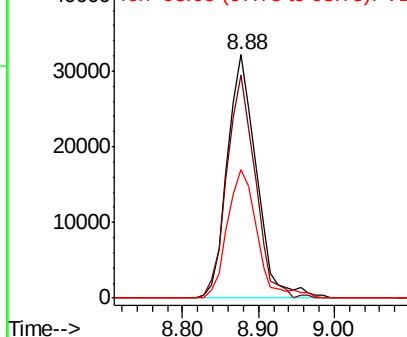


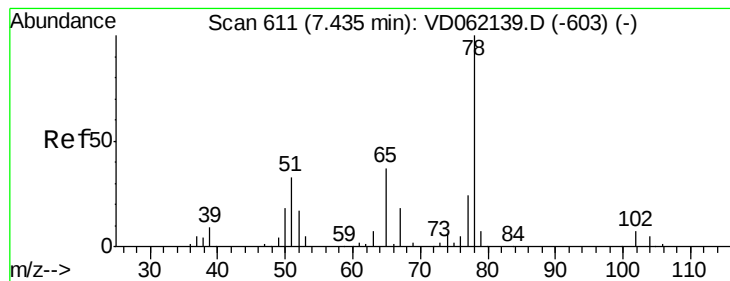
#39
Methylcyclohexane
Concen: 14.759 ug/l
RT: 8.88 min Scan# 757
Delta R.T. 0.03 min
Lab File: VD062258.D
Acq: 12 May 2019 14:52

Tgt Ion: 83 Resp: 85802
Ion Ratio Lower Upper
83 100
55 91.5 68.2 102.4
98 53.0 38.2 57.4



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





#40

Benzene

Concen: 50.114 ug/l

RT: 7.47 min Scan# 614

Delta R.T. 0.04 min

Lab File: VD062258.D

Acq: 12 May 2019 14:52

Instrument :

MSVOA_D

ClientSampleId :

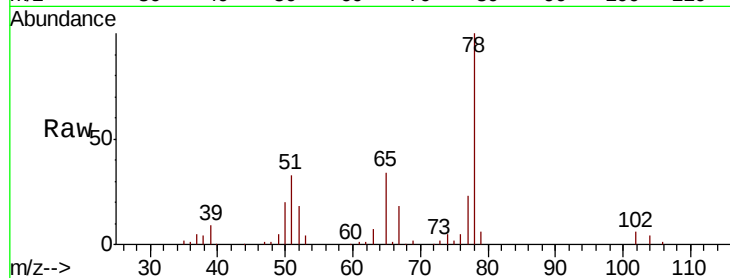
P021-SS001-0002-01MSD

Tot Ion: 78 Resp: 686650

Ion Ratio Lower Upper

78 100

77 22.9 19.7 29.5



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC

7.47

250000

200000

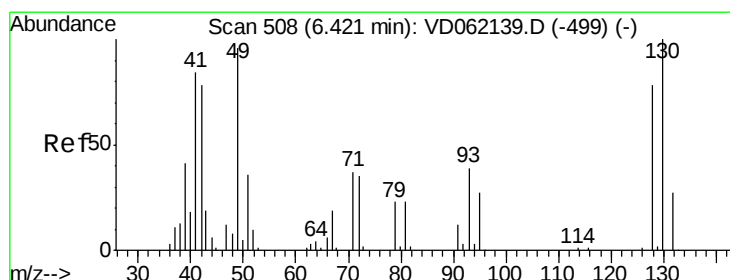
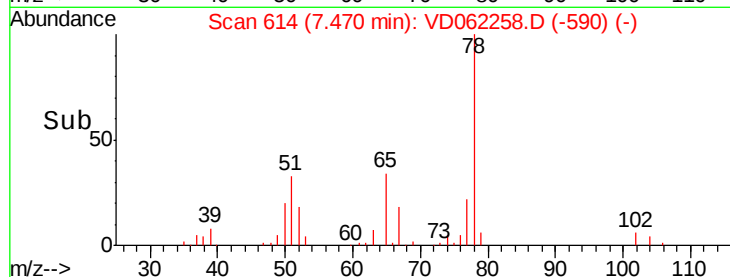
150000

100000

50000

0

Time--> 7.30 7.40 7.50 7.60 7.70



#41

Methacrylonitrile

Concen: 37.413 ug/l

RT: 6.48 min Scan# 513

Delta R.T. 0.05 min

Lab File: VD062258.D

Acq: 12 May 2019 14:52

Tgt Ion: 41 Resp: 117651

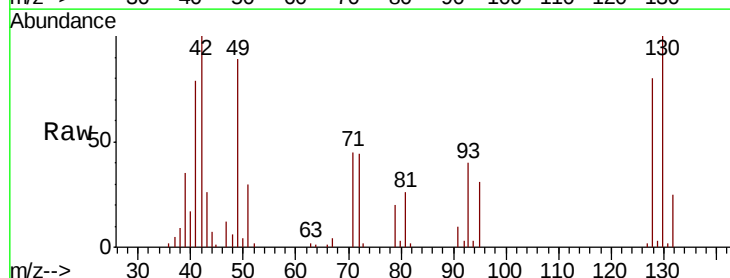
Ion Ratio Lower Upper

41 100

39 44.2 34.1 51.1

67 4.5 23.8 35.6#

52 2.2 8.8 13.2#



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

6.48

50000

40000

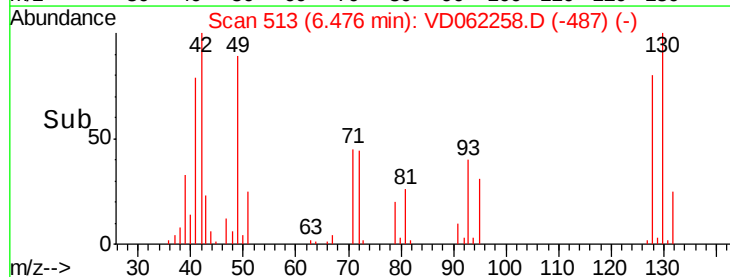
30000

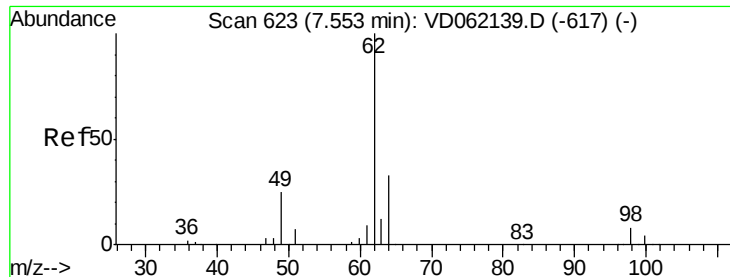
20000

10000

0

Time--> 6.30 6.40 6.50 6.60

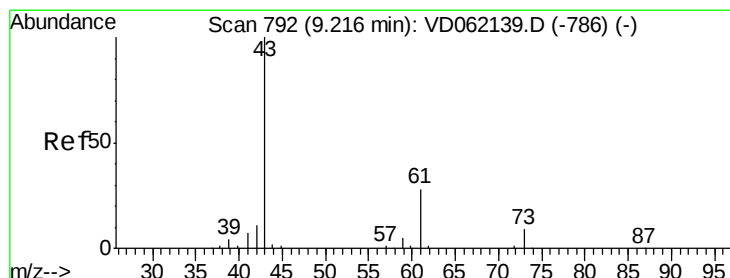
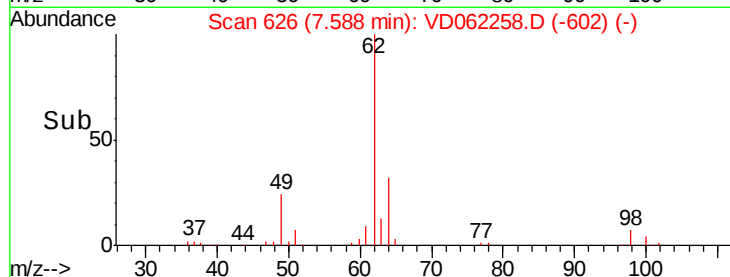
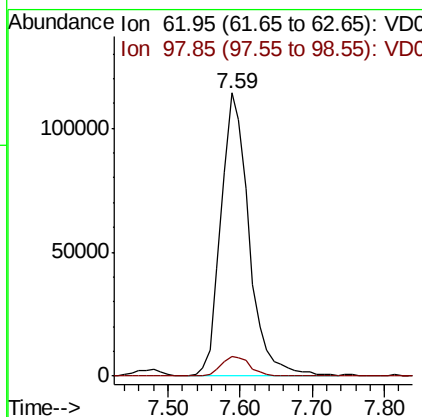
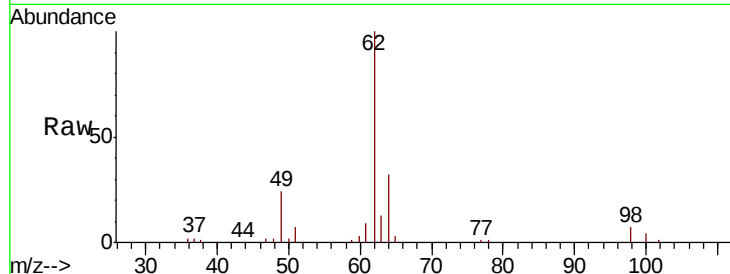




#42
 1,2-Dichloroethane
 Concen: 53.234 ug/l
 RT: 7.59 min Scan# 626
 Delta R.T. 0.04 min
 Lab File: VD062258.D
 Acq: 12 May 2019 14:52

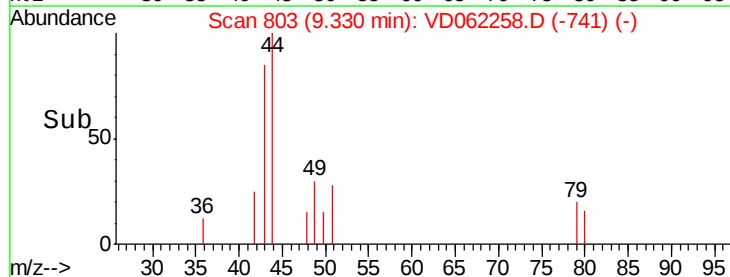
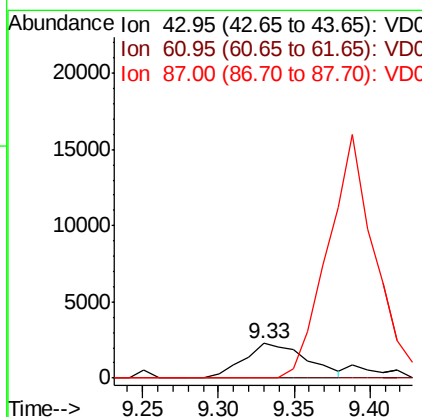
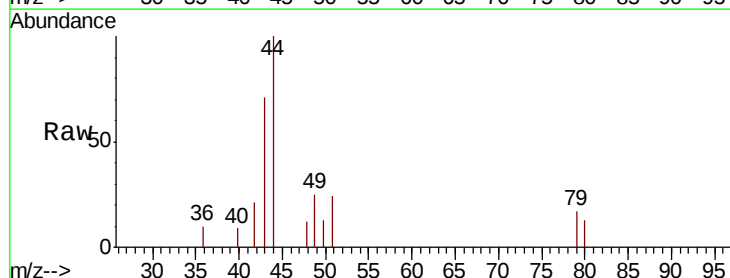
Instrument :
 MSVOA_D
 ClientSampleId :
 P021-SS001-0002-01MSD

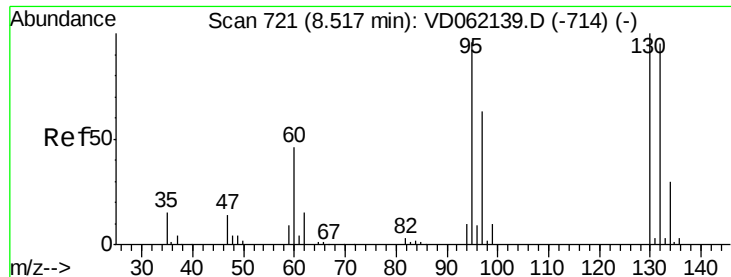
Tot Ion: 62 Resp: 309037
 Ion Ratio Lower Upper
 62 100
 98 7.1 0.0 17.8



#43
 Isopropyl Acetate
 Concen: 1.815 ug/l
 RT: 9.33 min Scan# 803
 Delta R.T. 0.11 min
 Lab File: VD062258.D
 Acq: 12 May 2019 14:52

Tgt Ion: 43 Resp: 6622
 Ion Ratio Lower Upper
 43 100
 61 0.0 25.1 37.7#
 87 0.0 0.0 0.0





#44

Trichloroethene

Concen: 42.118 ug/l

RT: 8.55 min Scan# 724

Delta R.T. 0.04 min

Lab File: VD062258.D

Acq: 12 May 2019 14:52

Instrument :

MSVOA_D

ClientSampleId :

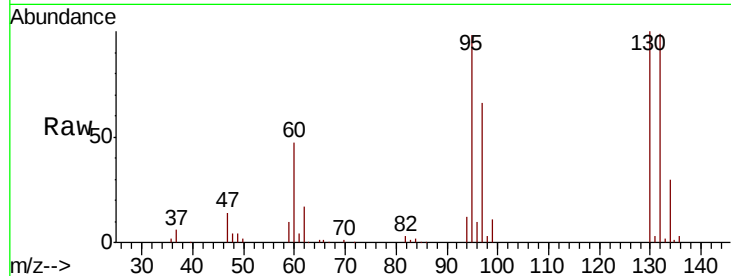
P021-SS001-0002-01MSD

Tot Ion:130 Resp: 219901

Ion Ratio Lower Upper

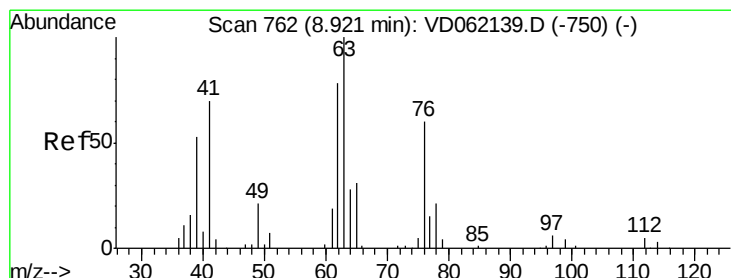
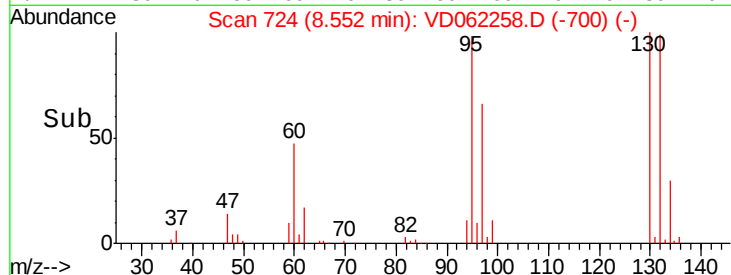
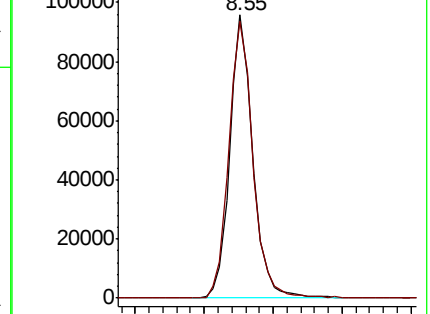
130 100

95 97.7 0.0 174.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC



#45

1,2-Dichloropropane

Concen: 53.247 ug/l

RT: 8.96 min Scan# 765

Delta R.T. 0.04 min

Lab File: VD062258.D

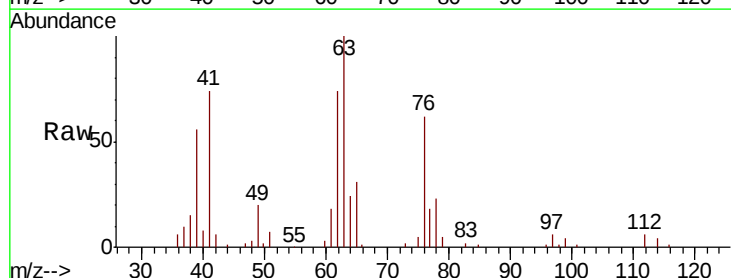
Acq: 12 May 2019 14:52

Tgt Ion: 63 Resp: 180461

Ion Ratio Lower Upper

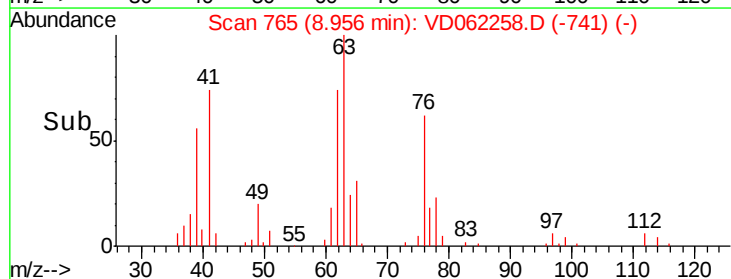
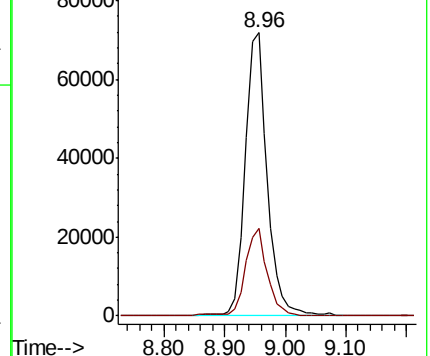
63 100

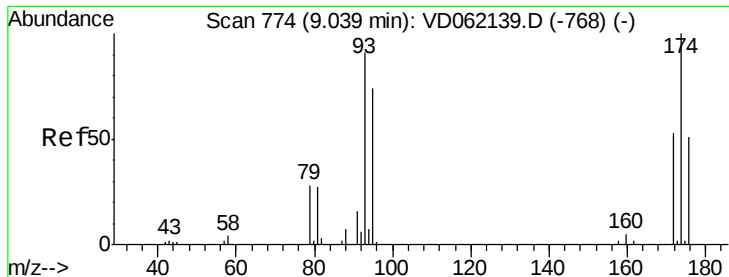
65 31.0 23.8 35.6



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

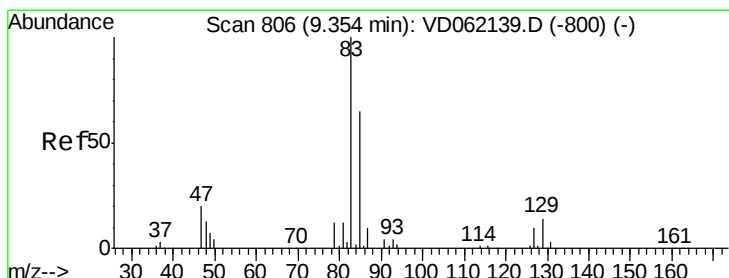
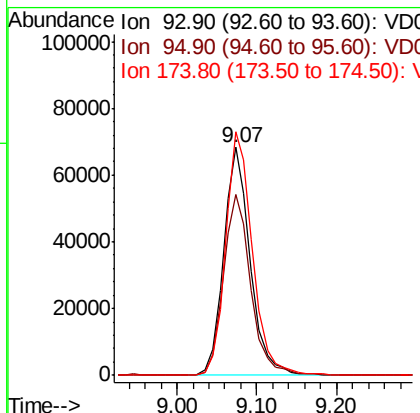
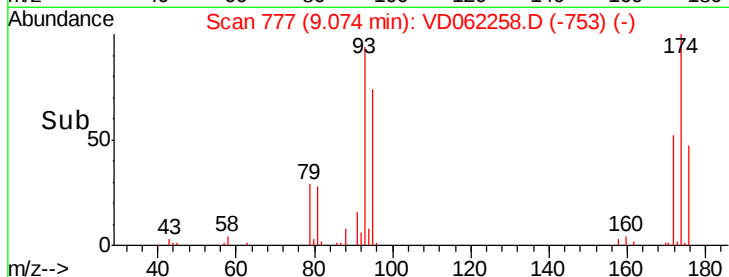
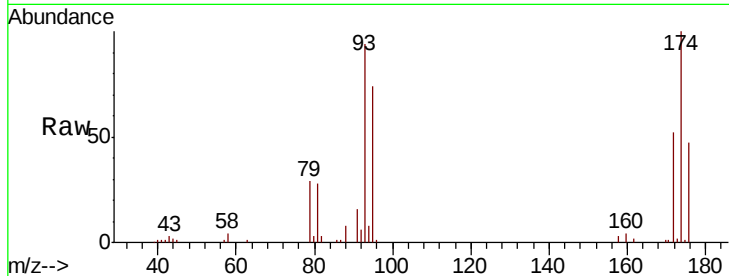




#46
Dibromomethane
Concen: 57.825 ug/l
RT: 9.07 min Scan# 777
Delta R.T. 0.04 min
Lab File: VD062258.D
Acq: 12 May 2019 14:52

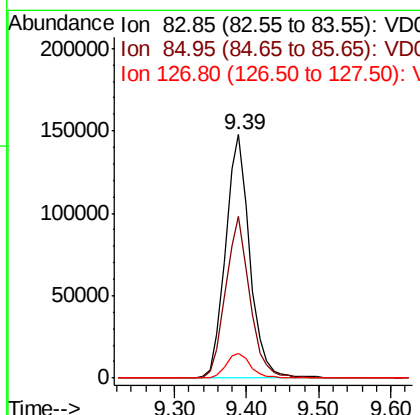
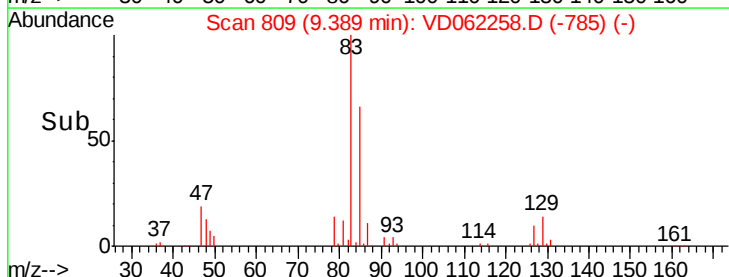
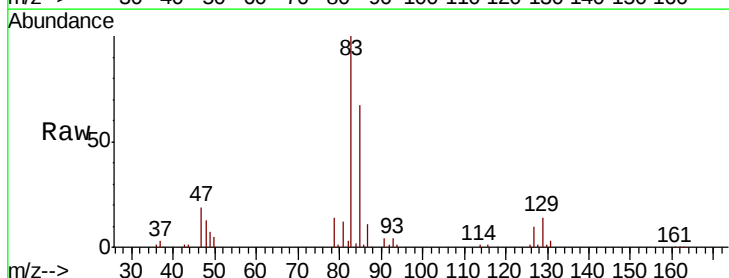
Instrument :
MSVOA_D
ClientSampleId :
P021-SS001-0002-01MSD

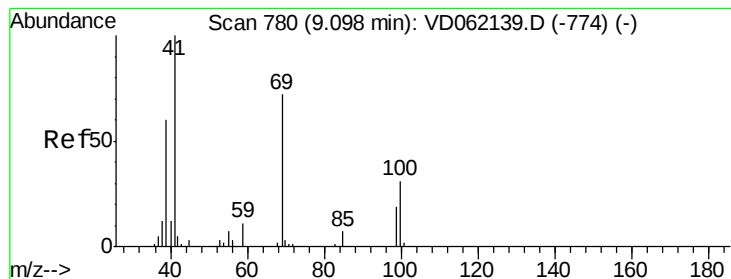
Tot Ion: 93 Resp: 159366
Ion Ratio Lower Upper
93 100
95 79.3 64.8 97.2
174 106.9 79.3 118.9



#47
Bromodichloromethane
Concen: 50.967 ug/l
RT: 9.39 min Scan# 809
Delta R.T. 0.04 min
Lab File: VD062258.D
Acq: 12 May 2019 14:52

Tgt Ion: 83 Resp: 343585
Ion Ratio Lower Upper
83 100
85 66.5 50.9 76.3
127 10.4 8.1 12.1





#48

Methyl methacrylate

Concen: 20.011 ug/l

RT: 9.13 min Scan# 783

Delta R.T. 0.04 min

Lab File: VD062258.D

Acq: 12 May 2019 14:52

Instrument :

MSVOA_D

ClientSampleId :

P021-SS001-0002-01MSD

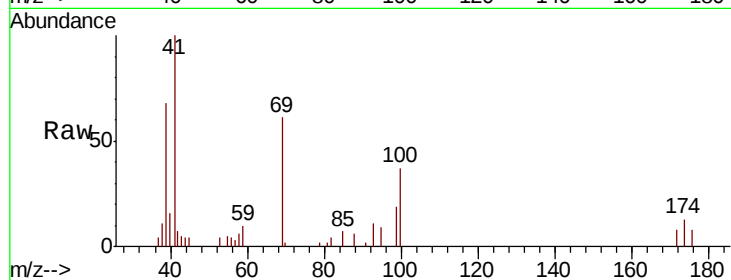
Tot Ion: 41 Resp: 44984

Ion Ratio Lower Upper

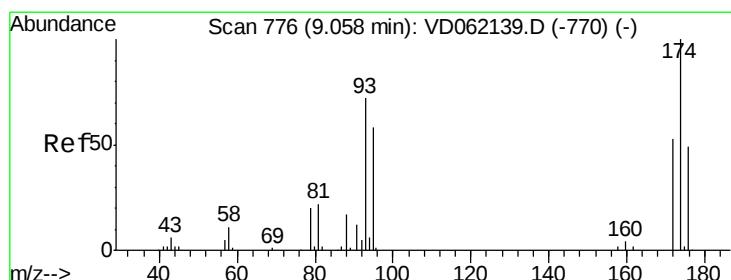
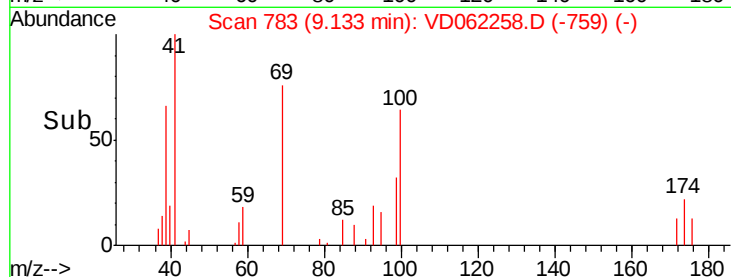
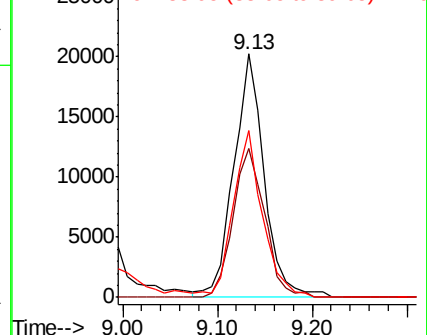
41 100

69 61.1 64.2 96.2#

39 68.5 46.8 70.2



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: 982.027 ug/l

RT: 9.09 min Scan# 779

Delta R.T. 0.04 min

Lab File: VD062258.D

Acq: 12 May 2019 14:52

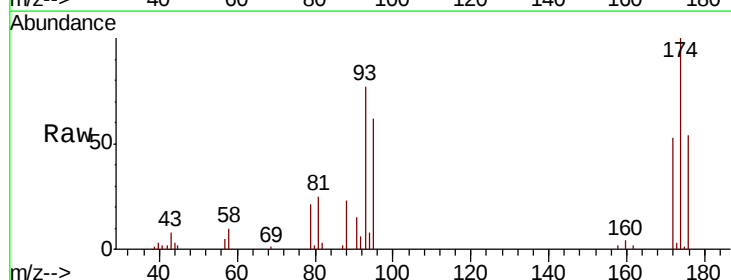
Tgt Ion: 88 Resp: 23818

Ion Ratio Lower Upper

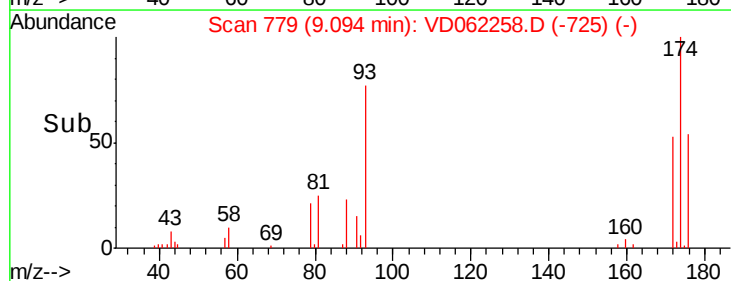
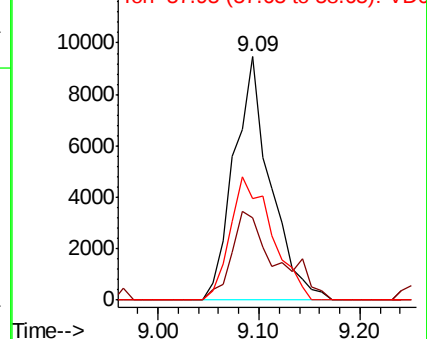
88 100

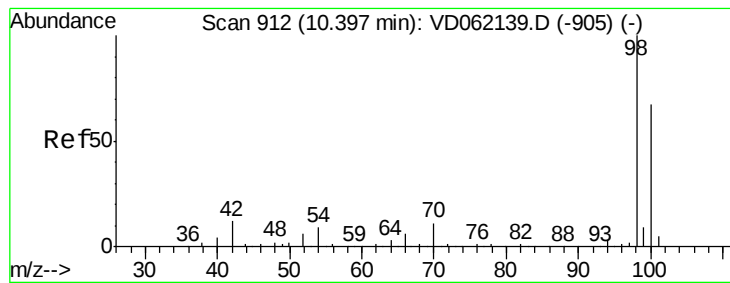
43 33.6 23.4 35.0

58 41.6 44.0 66.0#



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: 34.261 ug/l

RT: 10.42 min Scan# 914

Delta R.T. 0.03 min

Lab File: VD062258.D

Acq: 12 May 2019 14:52

Instrument :

MSVOA_D

ClientSampleId :

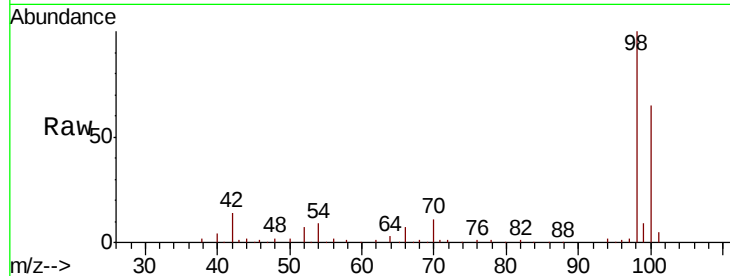
P021-SS001-0002-01MSD

Tot Ion: 98 Resp: 507221

Ion Ratio Lower Upper

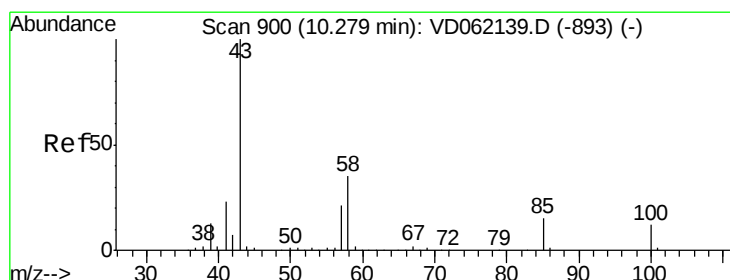
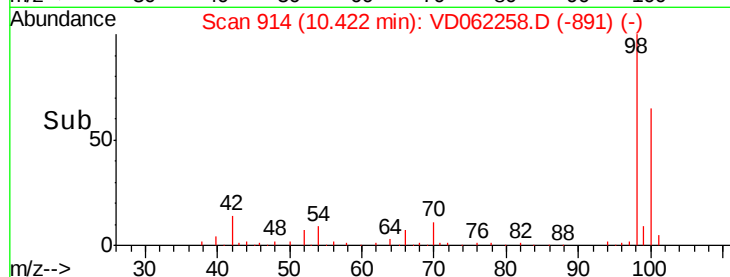
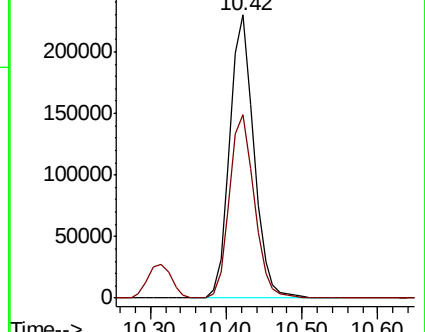
98 100

100 64.9 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): VD062139.D (-905) (-)

Ion 100.05 (99.75 to 100.75): VD062139.D (-905) (-)



#51

4-Methyl-2-Pentanone

Concen: 212.264 ug/l

RT: 10.31 min Scan# 903

Delta R.T. 0.04 min

Lab File: VD062258.D

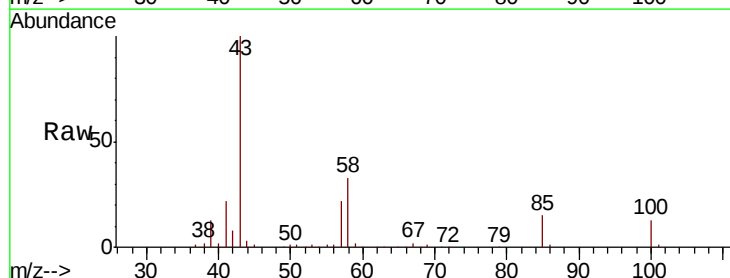
Acq: 12 May 2019 14:52

Tgt Ion: 43 Resp: 497949

Ion Ratio Lower Upper

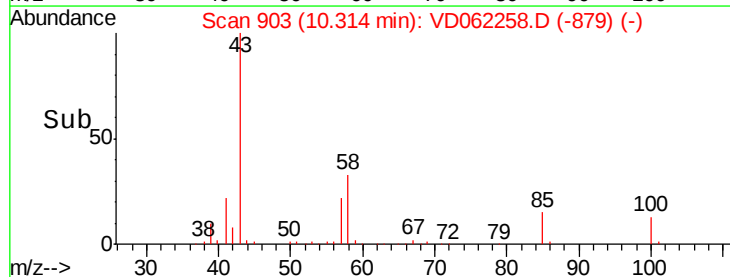
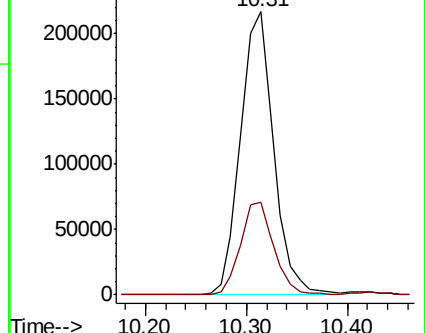
43 100

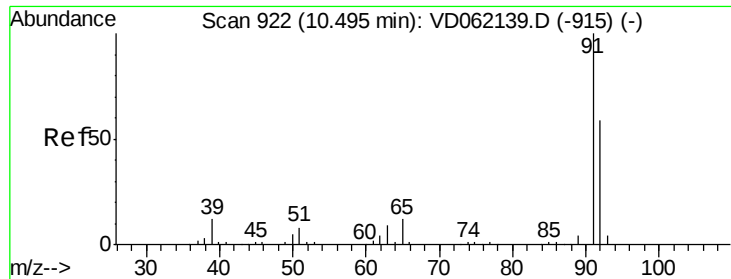
58 32.6 30.4 45.6



Abundance Ion 42.95 (42.65 to 43.65): VD062139.D (-893) (-)

Ion 57.95 (57.65 to 58.65): VD062139.D (-893) (-)





#52

Toluene

Concen: 44.383 ug/l

RT: 10.52 min Scan# 924

Delta R.T. 0.03 min

Lab File: VD062258.D

Acq: 12 May 2019 14:52

Instrument :

MSVOA_D

ClientSampleId :

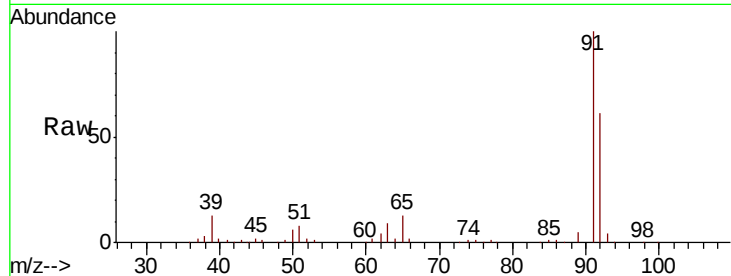
P021-SS001-0002-01MSD

Tot Ion: 92 Resp: 395667

Ion Ratio Lower Upper

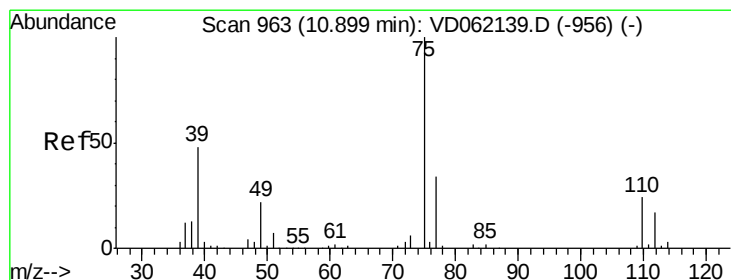
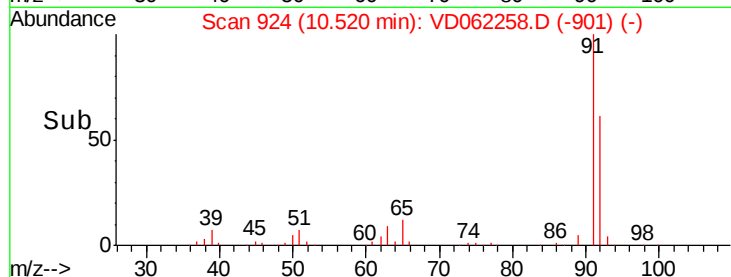
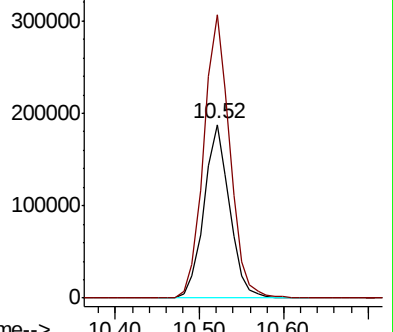
92 100

91 163.3 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#53

t-1,3-Dichloropropene

Concen: 30.329 ug/l

RT: 10.92 min Scan# 965

Delta R.T. 0.03 min

Lab File: VD062258.D

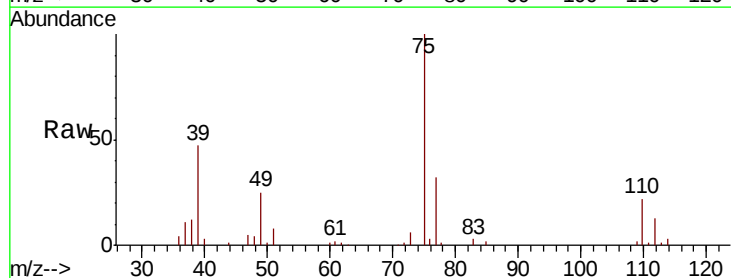
Acq: 12 May 2019 14:52

Tgt Ion: 75 Resp: 176705

Ion Ratio Lower Upper

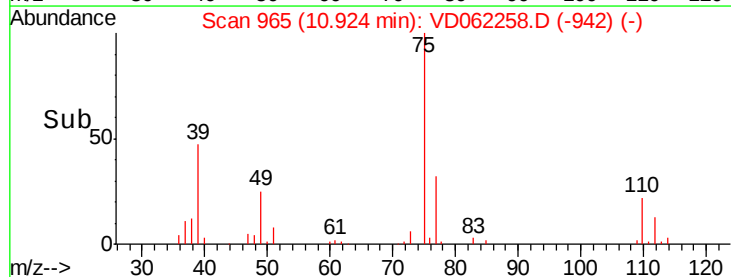
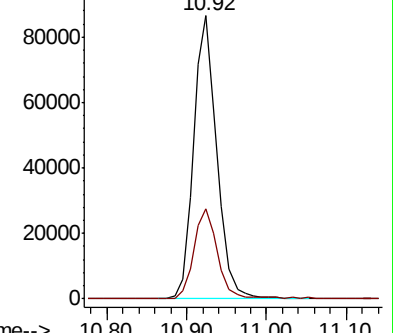
75 100

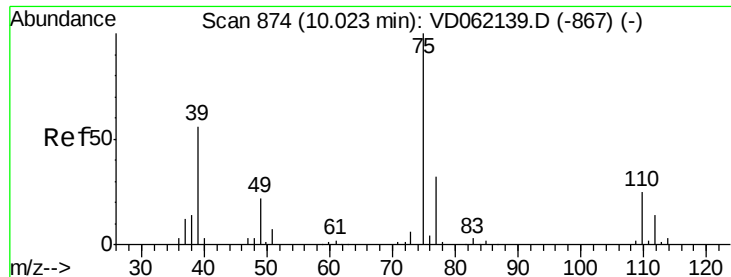
77 31.6 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



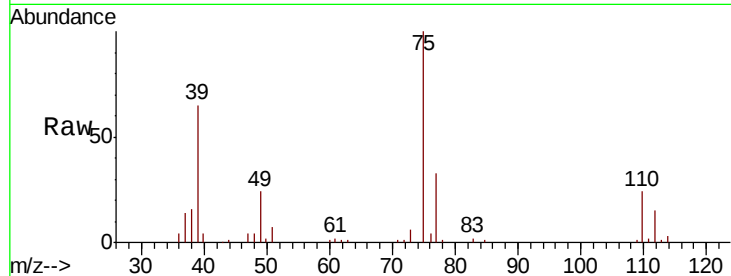


#54

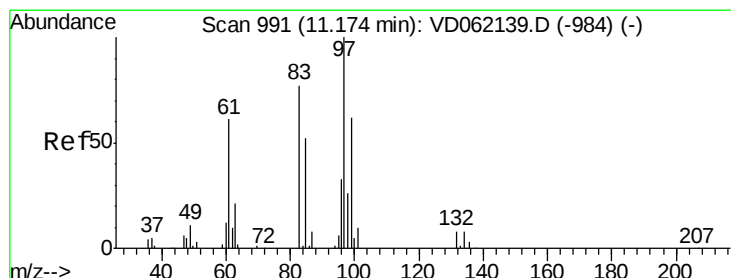
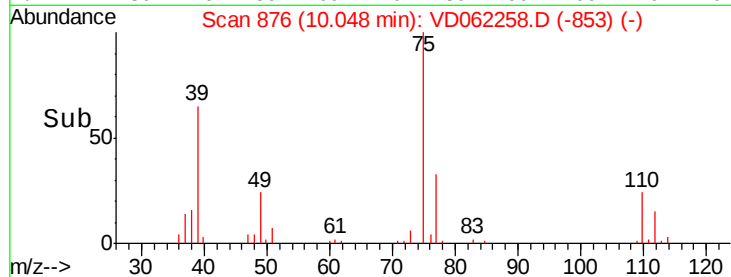
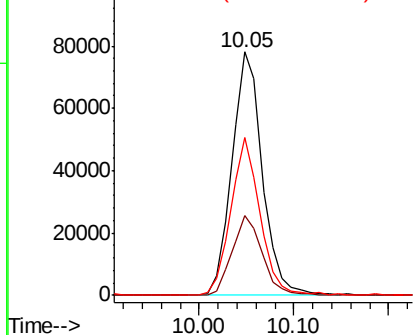
cis-1,3-Dichloropropene
 Concen: 27.178 ug/l
 RT: 10.05 min Scan# 876
 Delta R.T. 0.03 min
 Lab File: VD062258.D
 Acq: 12 May 2019 14:52

Instrument :
 MSVOA_D
 ClientSampleId :
 P021-SS001-0002-01MSD

Tot Ion: 75 Resp: 172745
 Ion Ratio Lower Upper
 75 100
 77 32.6 25.5 38.3
 39 64.7 39.4 59.2#



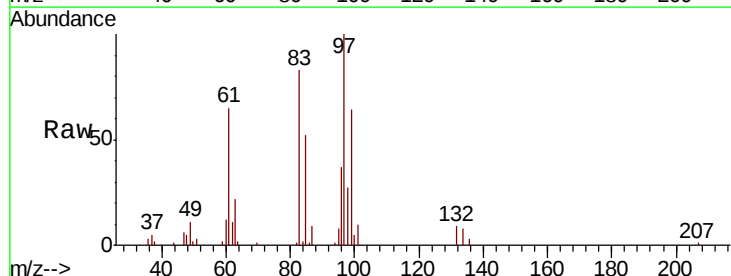
Abundance Ion 75.00 (74.70 to 75.70): VDC
 Ion 76.95 (76.65 to 77.65): VDC
 Ion 38.95 (38.65 to 39.65): VDC



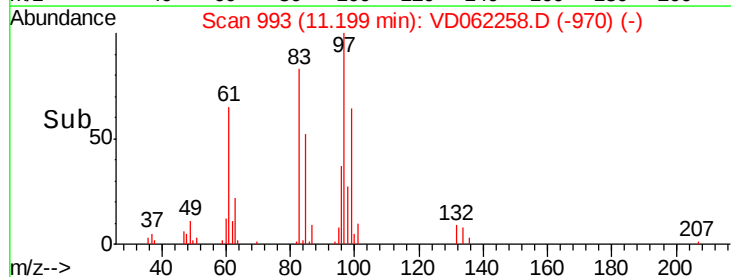
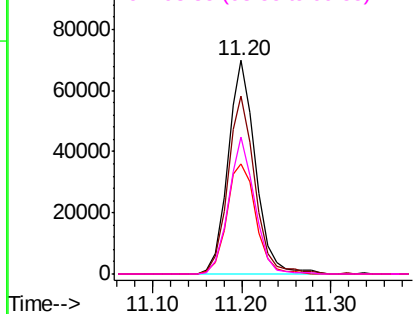
#55

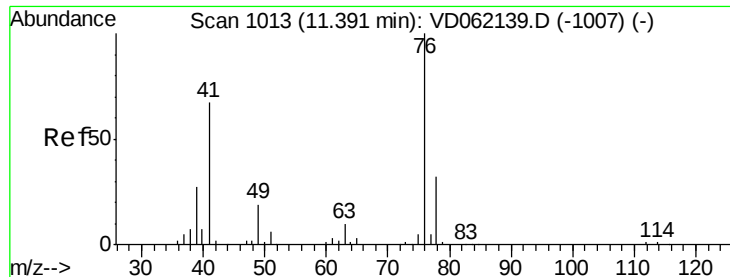
1,1,2-Trichloroethane
 Concen: 47.788 ug/l
 RT: 11.20 min Scan# 993
 Delta R.T. 0.03 min
 Lab File: VD062258.D
 Acq: 12 May 2019 14:52

Tgt Ion: 97 Resp: 150739
 Ion Ratio Lower Upper
 97 100
 83 83.3 65.7 98.5
 85 51.8 45.6 68.4
 99 64.1 48.4 72.6



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

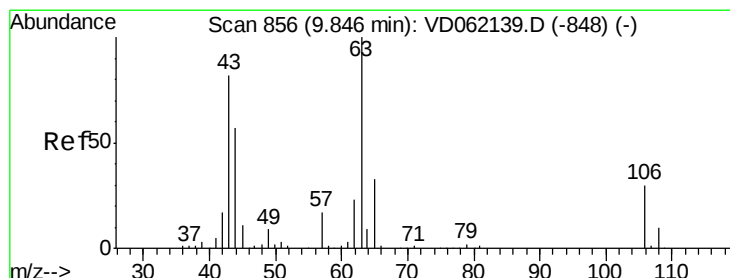
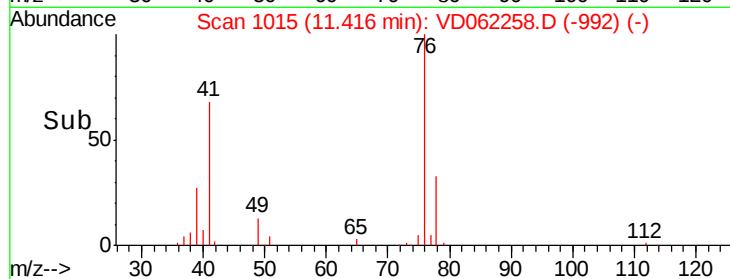
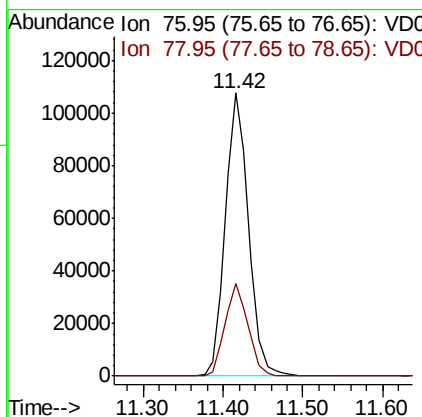
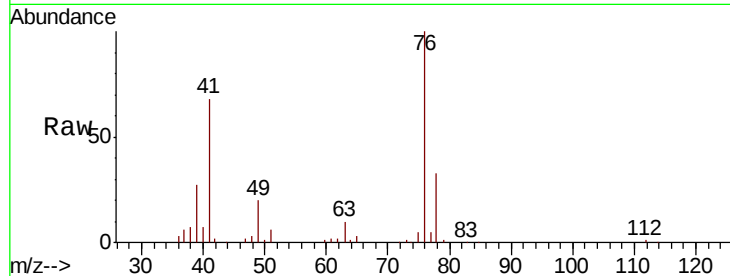




#57
 1,3-Dichloropropane
 Concen: 46.357 ug/l
 RT: 11.42 min Scan# 1015
 Delta R.T. 0.03 min
 Lab File: VD062258.D
 Acq: 12 May 2019 14:52

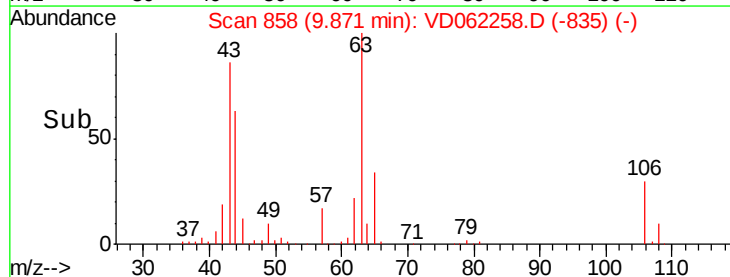
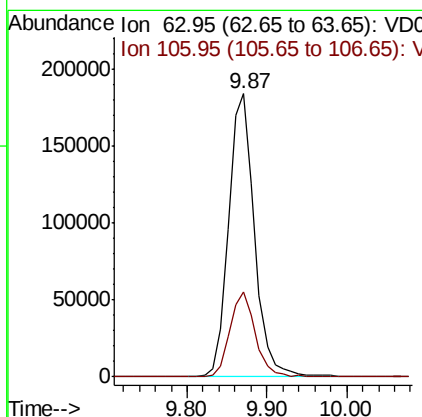
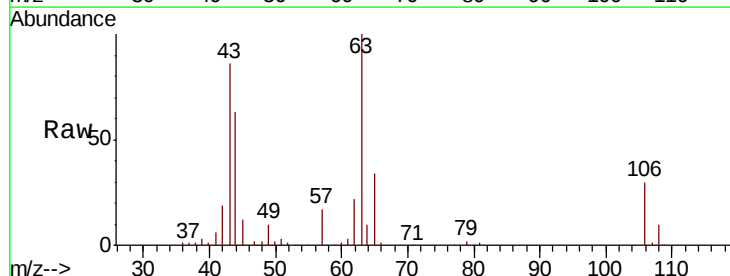
Instrument :
 MSVOA_D
 ClientSampleId :
 P021-SS001-0002-01MSD

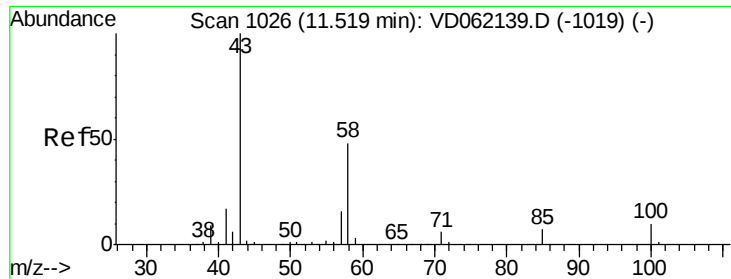
Tot Ion: 76 Resp: 220907
 Ion Ratio Lower Upper
 76 100
 78 32.6 26.2 39.2



#58
 2-Chloroethyl Vinyl ether
 Concen: 233.490 ug/l
 RT: 9.87 min Scan# 858
 Delta R.T. 0.03 min
 Lab File: VD062258.D
 Acq: 12 May 2019 14:52

Tgt Ion: 63 Resp: 418051
 Ion Ratio Lower Upper
 63 100
 106 29.9 22.6 34.0

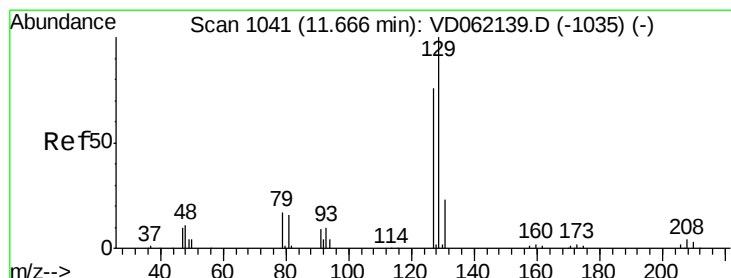
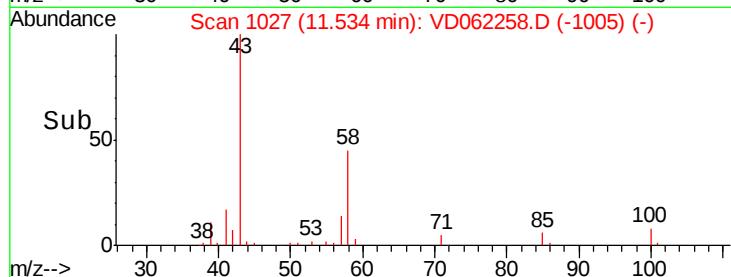
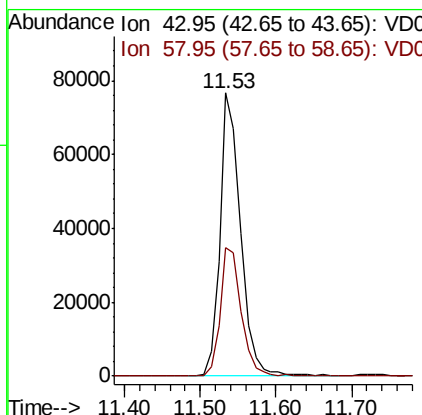
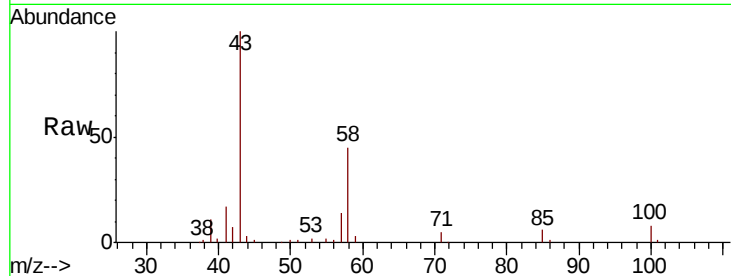




#59
2-Hexanone
Concen: 83.866 ug/l
RT: 11.53 min Scan# 1027
Delta R.T. 0.02 min
Lab File: VD062258.D
Acq: 12 May 2019 14:52

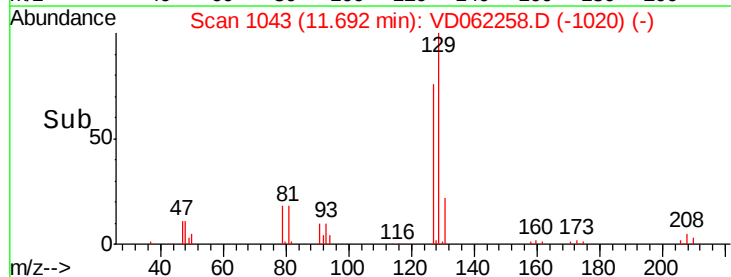
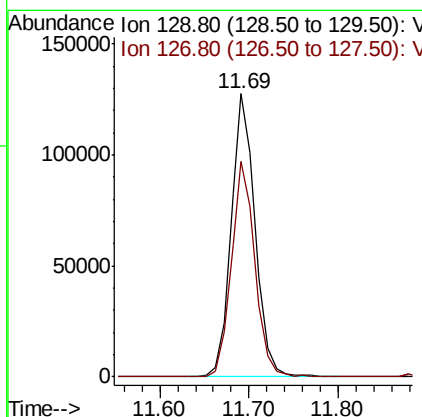
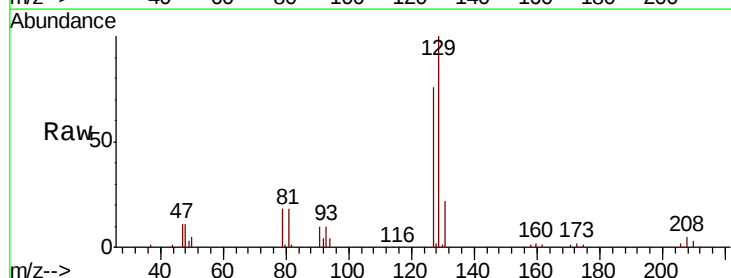
Instrument :
MSVOA_D
ClientSampleId :
P021-SS001-0002-01MSD

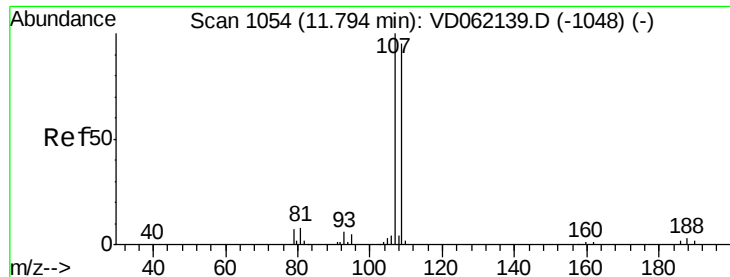
Tot Ion: 43 Resp: 145006
Ion Ratio Lower Upper
43 100
58 45.5 25.4 76.4



#60
Dibromochloromethane
Concen: 44.006 ug/l
RT: 11.69 min Scan# 1043
Delta R.T. 0.03 min
Lab File: VD062258.D
Acq: 12 May 2019 14:52

Tgt Ion: 129 Resp: 239888
Ion Ratio Lower Upper
129 100
127 75.9 38.0 113.9





#61

1,2-Dibromoethane

Concen: 38.275 ug/l

RT: 11.81 min Scan# 1055

Delta R.T. 0.02 min

Lab File: VD062258.D

Acq: 12 May 2019 14:52

Instrument :

MSVOA_D

ClientSampleId :

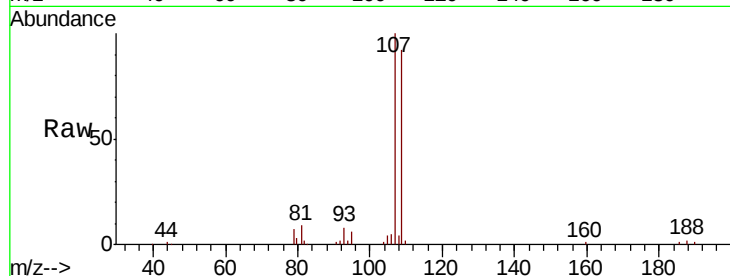
P021-SS001-0002-01MSD

Tot Ion:107 Resp: 146781

Ion Ratio Lower Upper

107 100

109 92.2 78.3 117.5



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V

11.81

80000

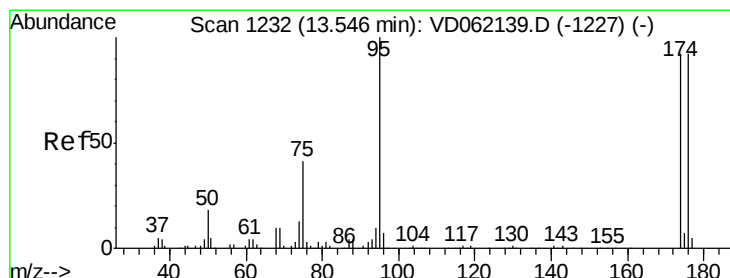
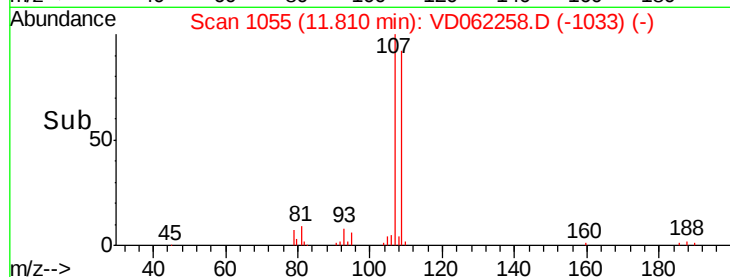
60000

40000

20000

0

Time--> 11.70 11.80 11.90



#62

4-Bromofluorobenzene

Concen: 22.588 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.02 min

Lab File: VD062258.D

Acq: 12 May 2019 14:52

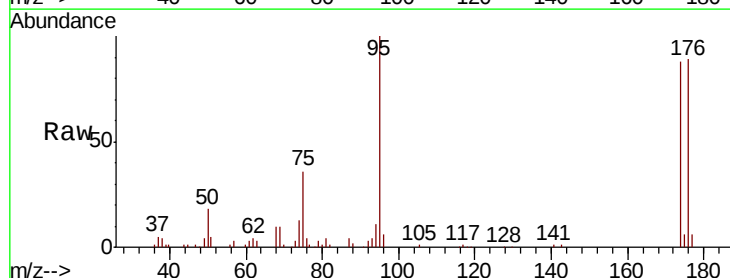
Tgt Ion: 95 Resp: 134285

Ion Ratio Lower Upper

95 100

174 88.4 0.0 181.8

176 89.0 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

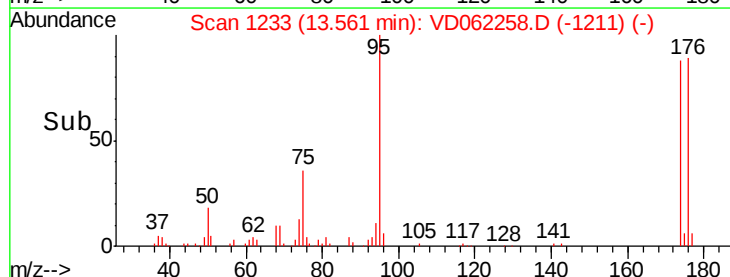
13.56

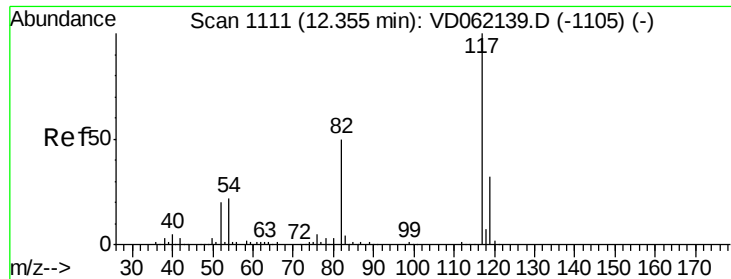
100000

50000

0

Time--> 13.50 13.55 13.60 13.65

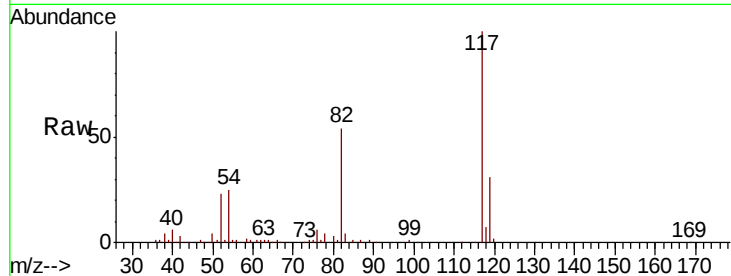




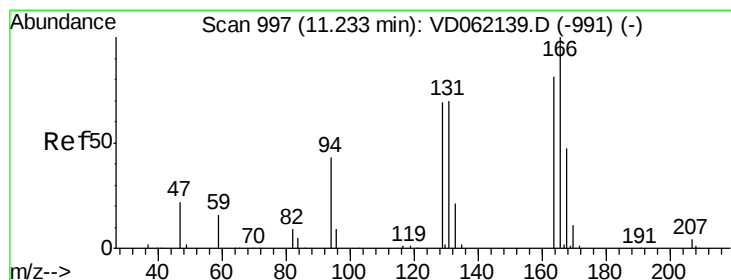
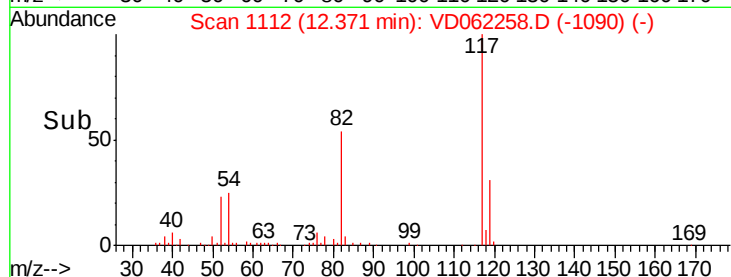
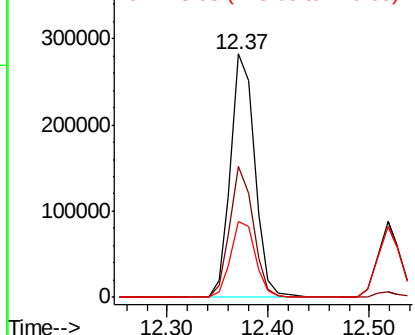
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.02 min
Lab File: VD062258.D
Acq: 12 May 2019 14:52

Instrument :
MSVOA_D
ClientSampleId :
P021-SS001-0002-01MSD

Tot Ion:117 Resp: 469996
Ion Ratio Lower Upper
117 100
82 54.0 36.2 54.2
119 31.0 26.2 39.4

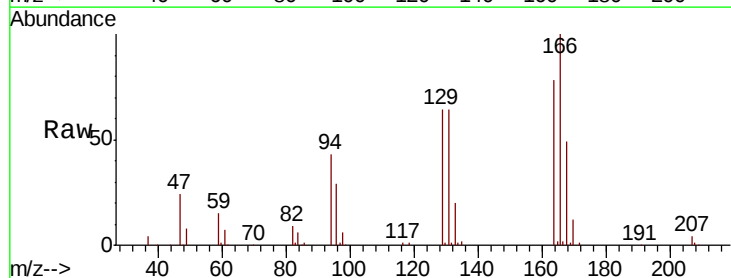


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): VD
Ion 118.95 (118.65 to 119.65): V

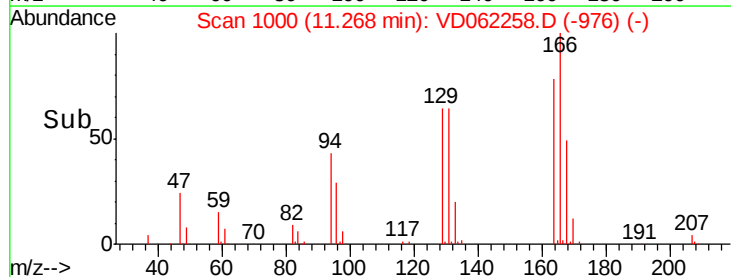
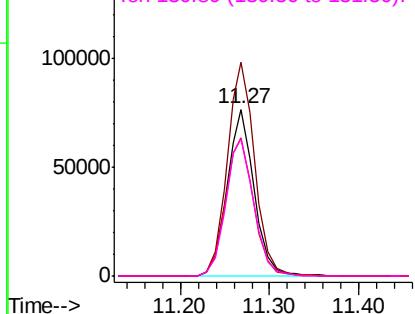


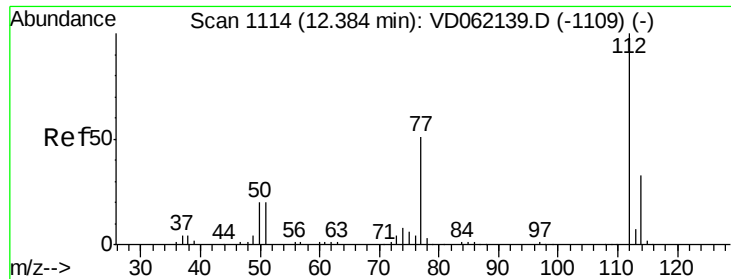
#64
Tetrachloroethene
Concen: 44.271 ug/l
RT: 11.27 min Scan# 1000
Delta R.T. 0.04 min
Lab File: VD062258.D
Acq: 12 May 2019 14:52

Tgt Ion:164 Resp: 162704
Ion Ratio Lower Upper
164 100
166 127.9 101.5 152.3
129 82.5 74.6 112.0
131 82.0 72.6 108.8



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

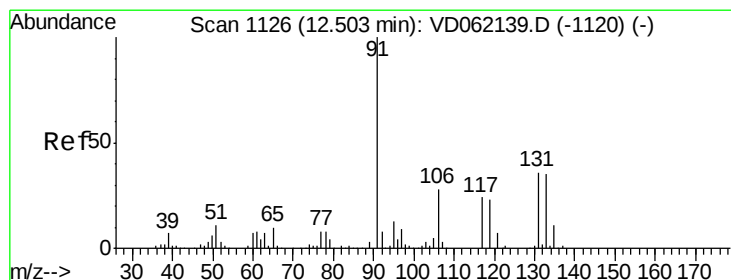
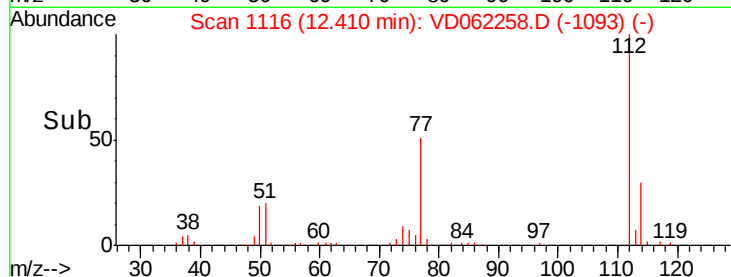
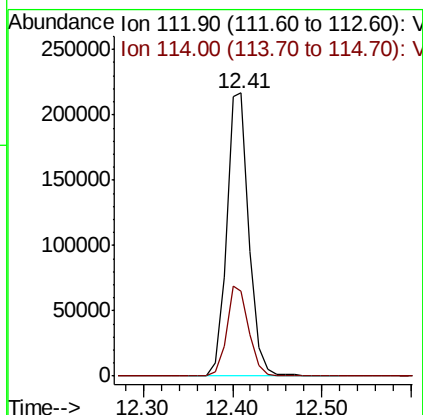
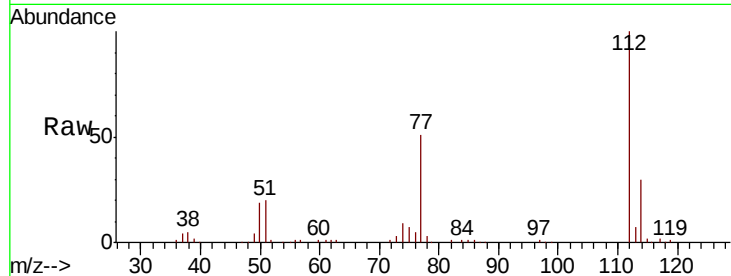




#65
Chlorobenzene
Concen: 43.617 ug/l
RT: 12.41 min Scan# 1116
Delta R.T. 0.03 min
Lab File: VD062258.D
Acq: 12 May 2019 14:52

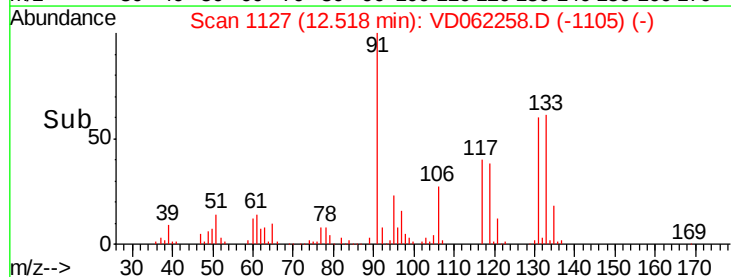
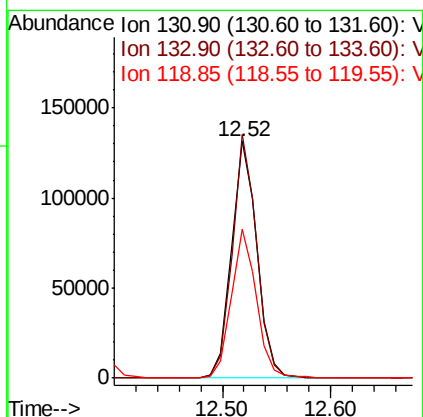
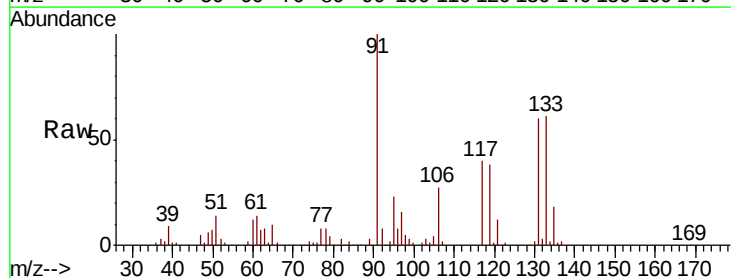
Instrument :
MSVOA_D
ClientSampleId :
P021-SS001-0002-01MSD

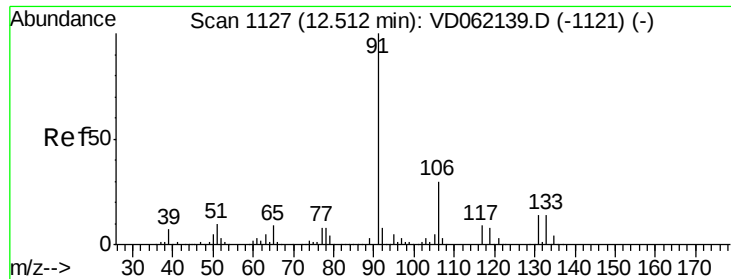
Tot Ion:112 Resp: 381818
Ion Ratio Lower Upper
112 100
114 30.1 25.8 38.8



#66
1,1,1,2-Tetrachloroethane
Concen: 56.381 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. 0.02 min
Lab File: VD062258.D
Acq: 12 May 2019 14:52

Tgt Ion:131 Resp: 214800
Ion Ratio Lower Upper
131 100
133 102.9 48.6 145.8
119 63.0 34.7 104.1

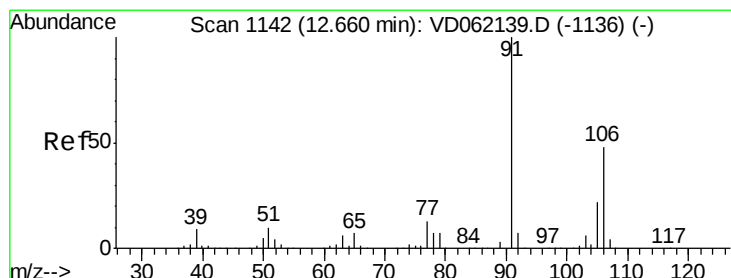
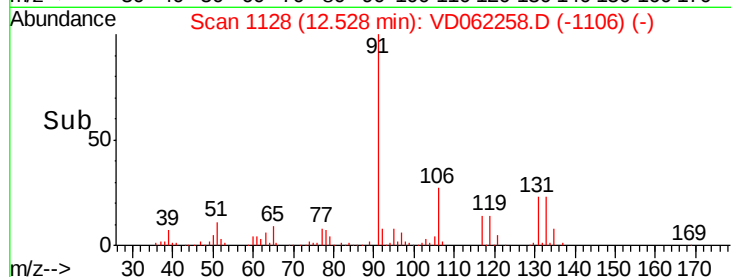
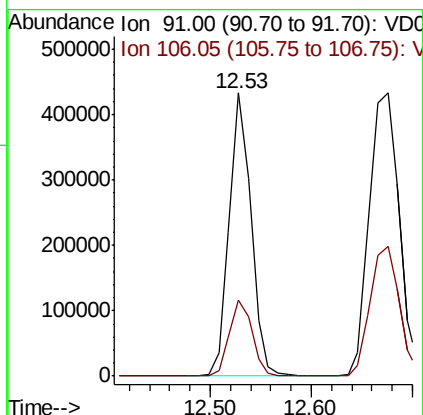
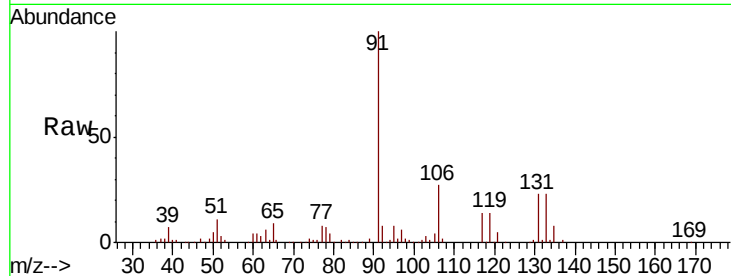




#67
Ethyl Benzene
Concen: 44.482 ug/l
RT: 12.53 min Scan# 1128
Delta R.T. 0.02 min
Lab File: VD062258.D
Acq: 12 May 2019 14:52

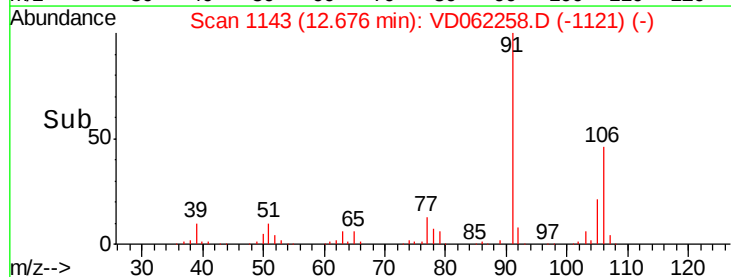
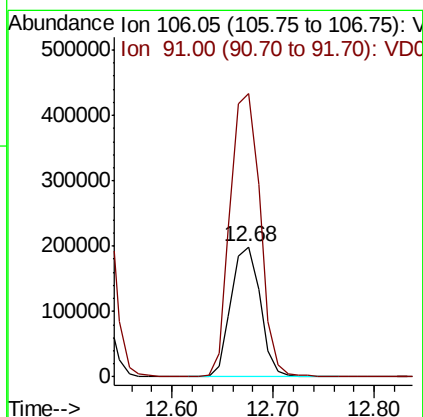
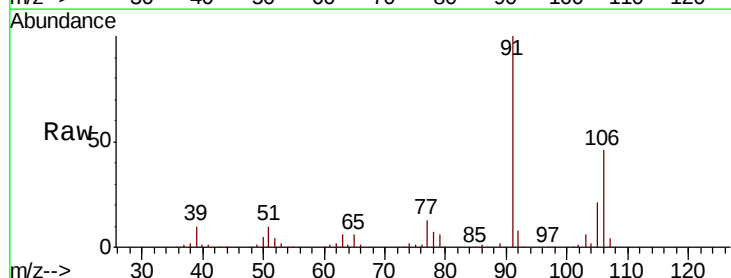
Instrument :
MSVOA_D
ClientSampleId :
P021-SS001-0002-01MSD

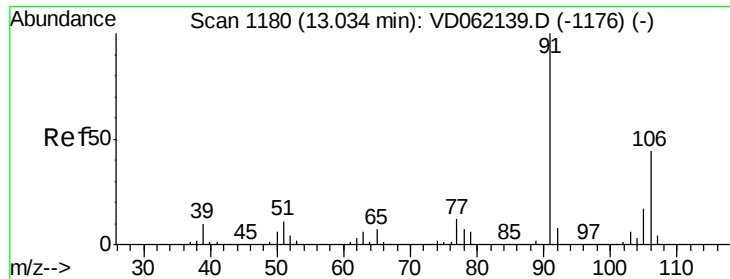
Tot Ion: 91 Resp: 651886
Ion Ratio Lower Upper
91 100
106 27.1 24.7 37.1



#68
m/p-Xylenes
Concen: 75.470 ug/l
RT: 12.68 min Scan# 1143
Delta R.T. 0.02 min
Lab File: VD062258.D
Acq: 12 May 2019 14:52

Tgt Ion:106 Resp: 402400
Ion Ratio Lower Upper
106 100
91 217.7 164.0 246.0

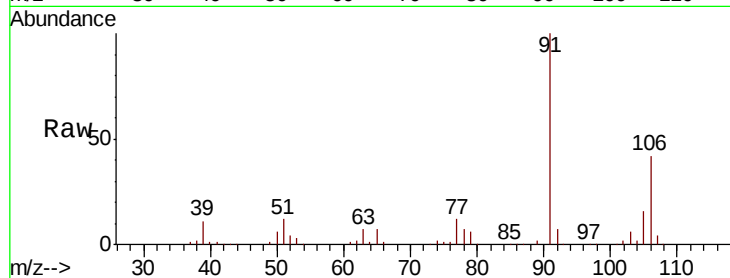




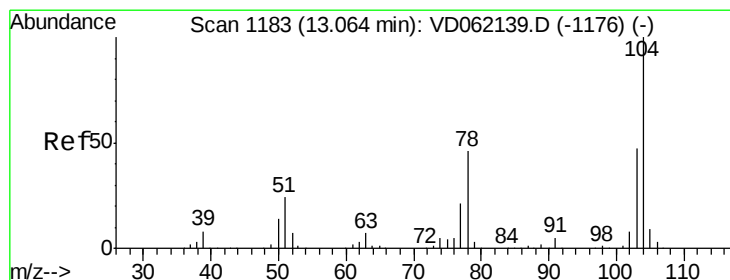
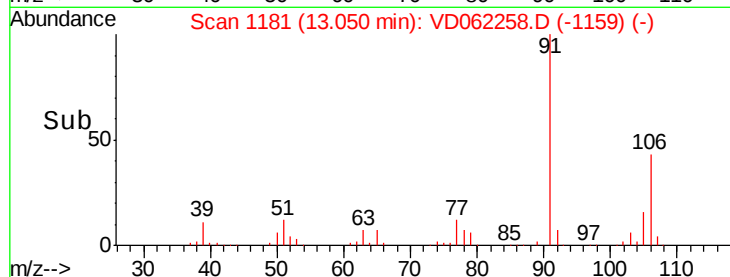
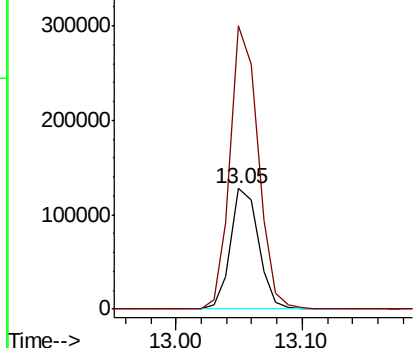
#69
o-Xylene
Concen: 39.663 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. 0.02 min
Lab File: VD062258.D
Acq: 12 May 2019 14:52

Instrument :
MSVOA_D
ClientSampleId :
P021-SS001-0002-01MSD

Tot Ion:106 Resp: 196610
Ion Ratio Lower Upper
106 100
91 235.4 106.7 319.9

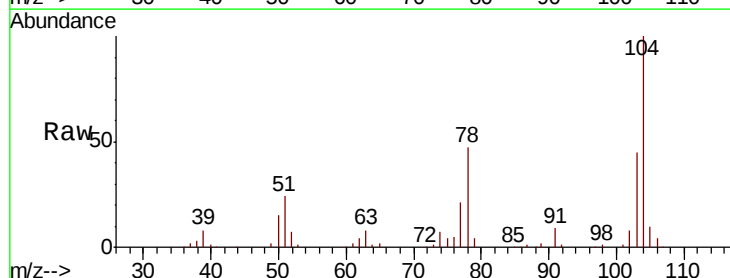


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

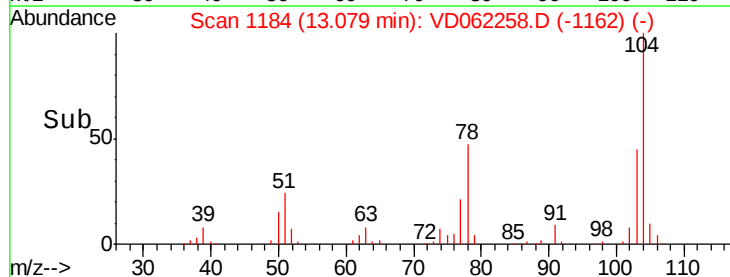
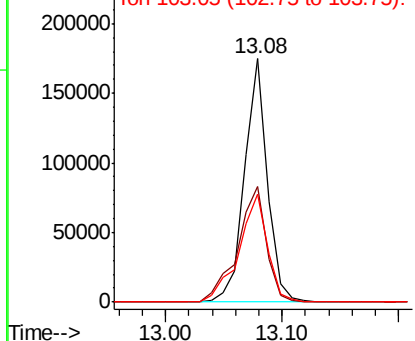


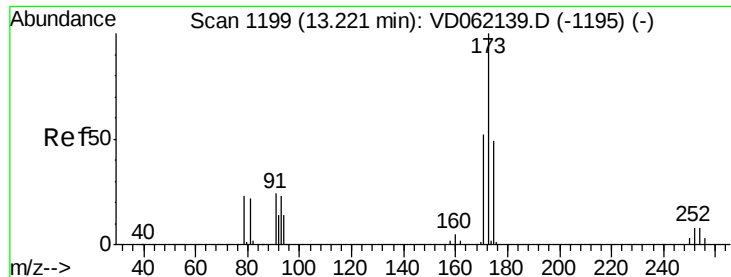
#70
Styrene
Concen: 28.303 ug/l
RT: 13.08 min Scan# 1184
Delta R.T. 0.02 min
Lab File: VD062258.D
Acq: 12 May 2019 14:52

Tgt Ion:104 Resp: 237667
Ion Ratio Lower Upper
104 100
78 47.4 35.4 53.2
103 44.5 37.5 56.3



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

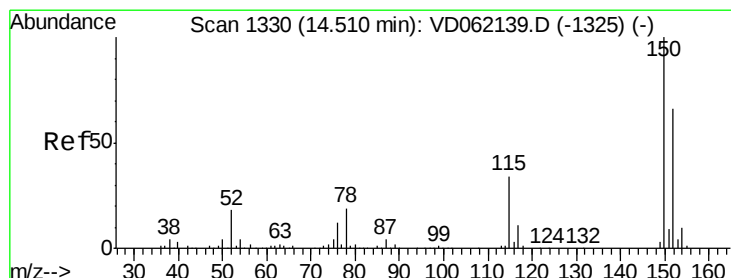
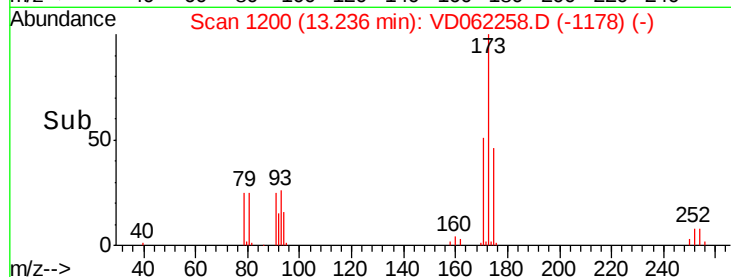
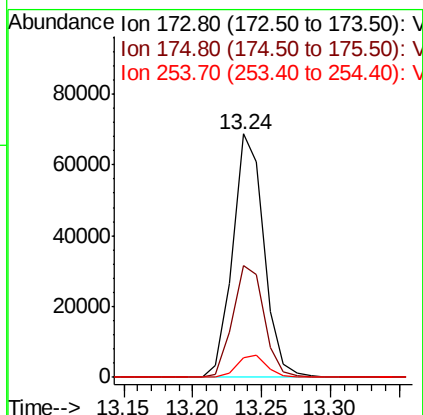
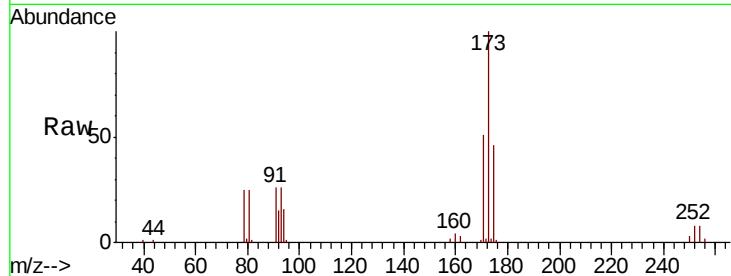




#71
Bromoform
Concen: 40.772 ug/l
RT: 13.24 min Scan# 1200
Delta R.T. 0.02 min
Lab File: VD062258.D
Acq: 12 May 2019 14:52

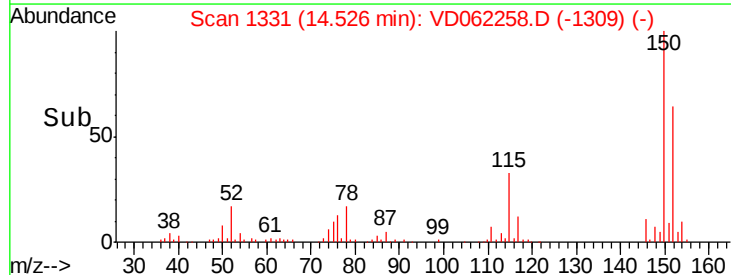
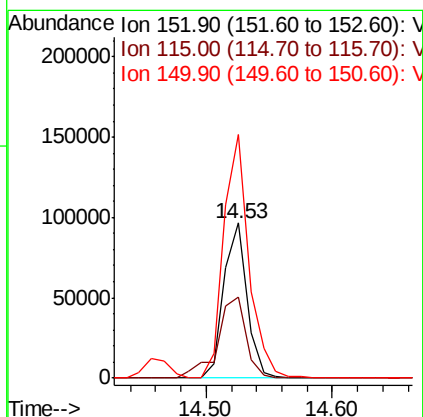
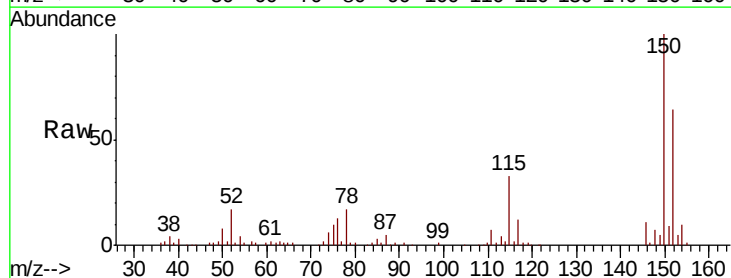
Instrument :
MSVOA_D
ClientSampleId :
P021-SS001-0002-01MSD

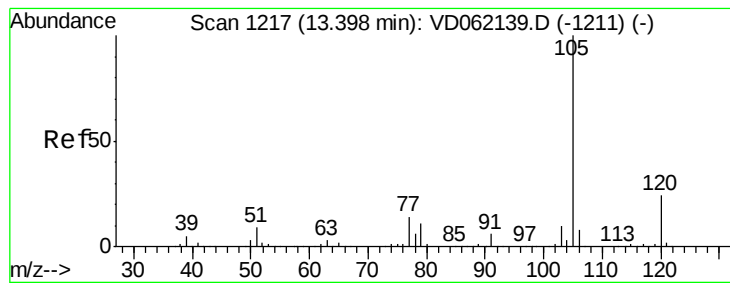
Tot Ion:173 Resp: 108071
Ion Ratio Lower Upper
173 100
175 46.1 24.4 73.4
254 8.3 5.4 8.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.53 min Scan# 1331
Delta R.T. 0.02 min
Lab File: VD062258.D
Acq: 12 May 2019 14:52

Tgt Ion:152 Resp: 122649
Ion Ratio Lower Upper
152 100
115 52.5 30.9 92.7
150 157.1 0.0 314.8





#73

Isopropylbenzene

Concen: 63.916 ug/l

RT: 13.40 min Scan# 1217

Delta R.T. 0.01 min

Lab File: VD062258.D

Acq: 12 May 2019 14:52

Instrument :

MSVOA_D

ClientSampleId :

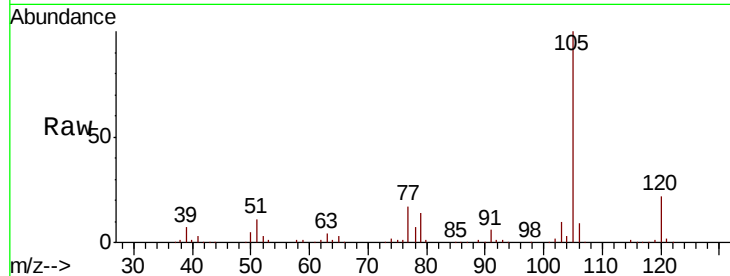
P021-SS001-0002-01MSD

Tot Ion:105 Resp: 469907

Ion Ratio Lower Upper

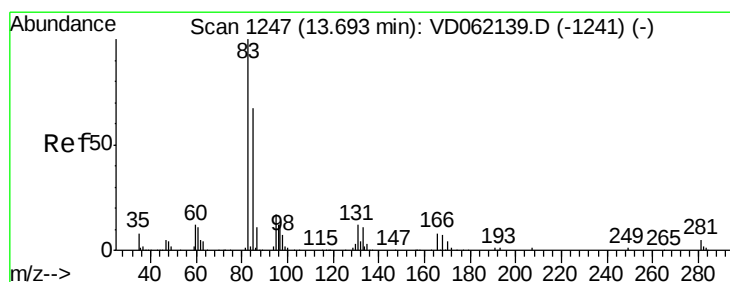
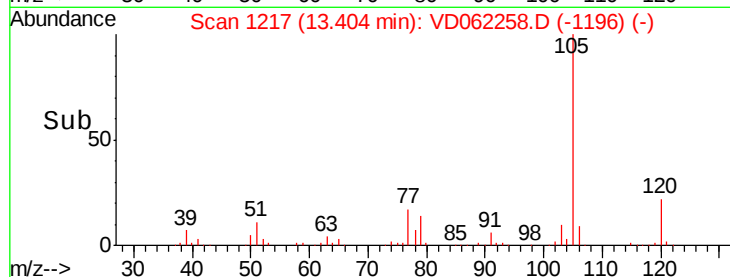
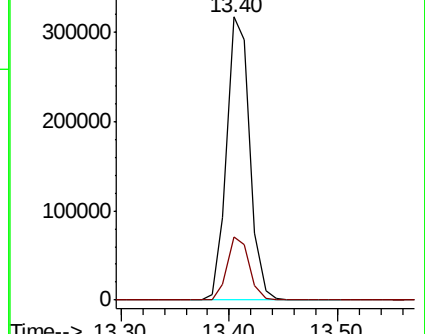
105 100

120 22.2 12.0 36.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#75

1,1,2,2-Tetrachloroethane

Concen: 94.473 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. 0.01 min

Lab File: VD062258.D

Acq: 12 May 2019 14:52

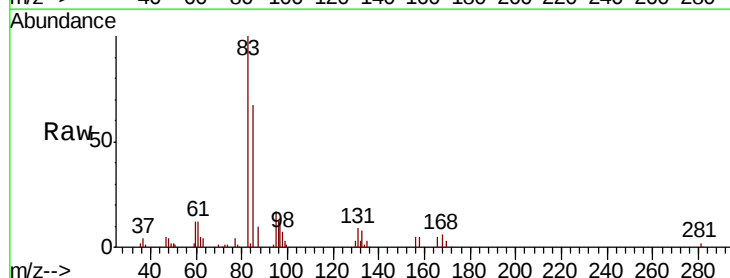
Tgt Ion: 83 Resp: 131490

Ion Ratio Lower Upper

83 100

131 9.4 5.0 14.9

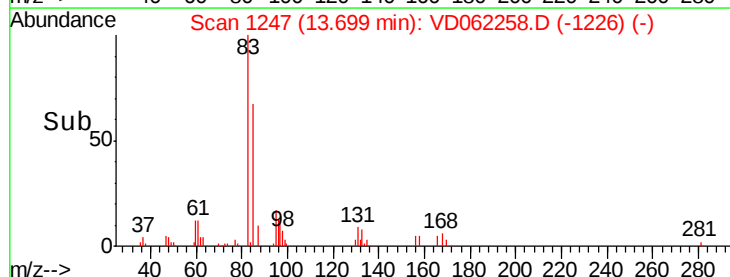
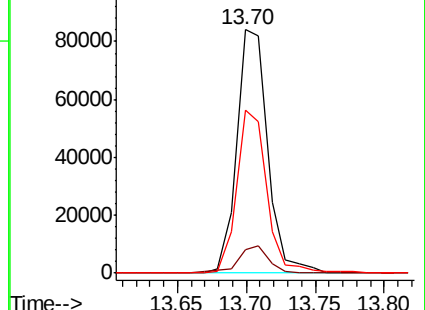
85 67.0 32.6 97.7

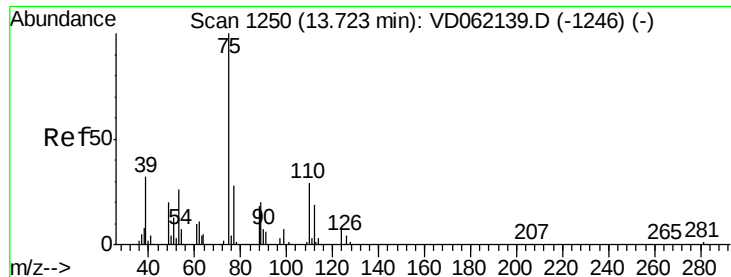


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 130.90 (130.60 to 131.60): V

Ion 84.95 (84.65 to 85.65): V





#76

1,2,3-Trichloropropane

Concen: 77.881 ug/l

RT: 13.74 min Scan# 1251

Delta R.T. 0.02 min

Lab File: VD062258.D

Acq: 12 May 2019 14:52

Instrument :

MSVOA_D

ClientSampleId :

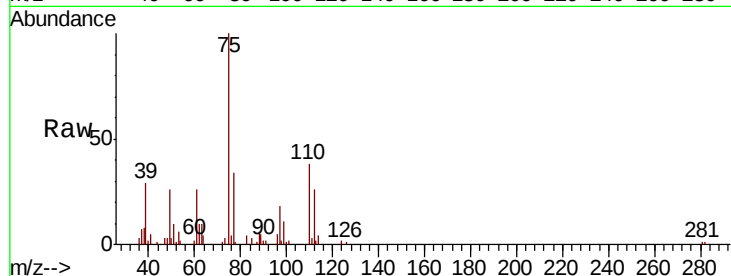
P021-SS001-0002-01MSD

Tot Ion: 75 Resp: 113519

Ion Ratio Lower Upper

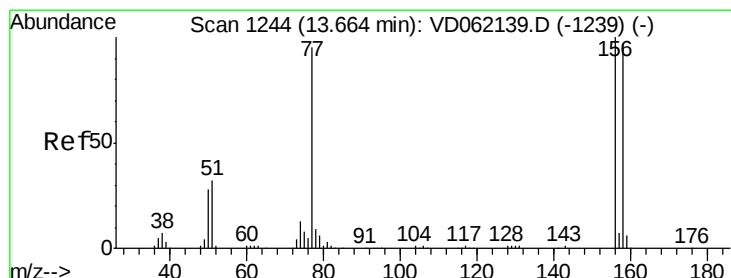
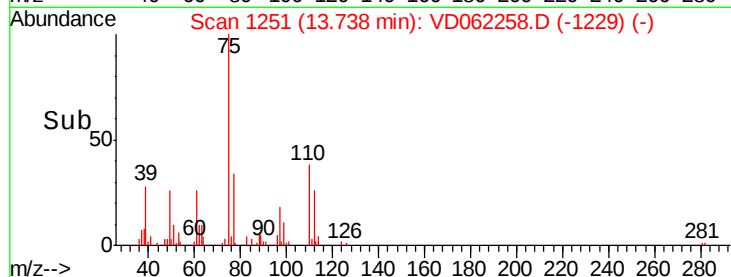
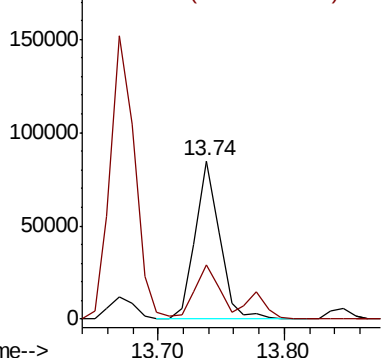
75 100

77 34.2 16.4 49.4



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 76.95 (76.65 to 77.65): V



#77

Bromobenzene

Concen: 77.678 ug/l

RT: 13.68 min Scan# 1245

Delta R.T. 0.02 min

Lab File: VD062258.D

Acq: 12 May 2019 14:52

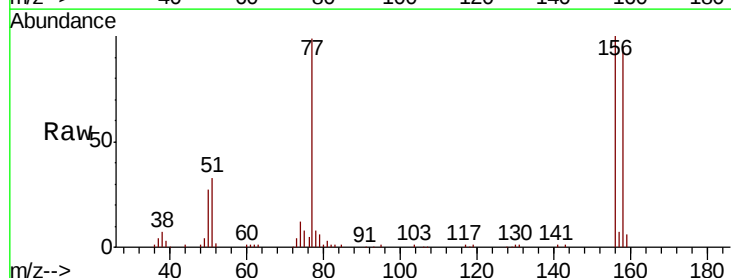
Tgt Ion: 156 Resp: 159867

Ion Ratio Lower Upper

156 100

77 98.9 53.1 159.4

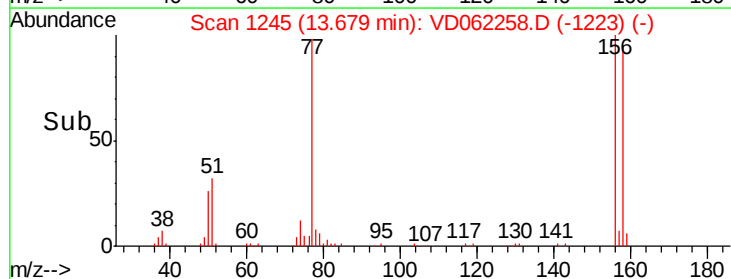
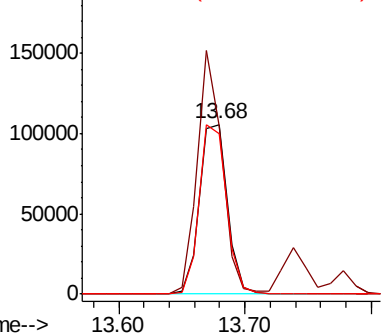
158 94.8 49.4 148.0

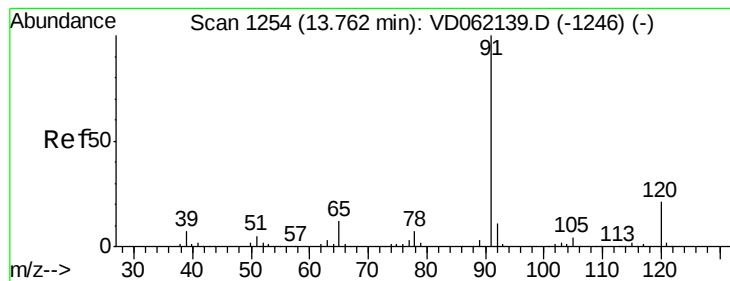


Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V





#78

n-propylbenzene

Concen: 46.113 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. 0.02 min

Lab File: VD062258.D

Acq: 12 May 2019 14:52

Instrument :

MSVOA_D

ClientSampleId :

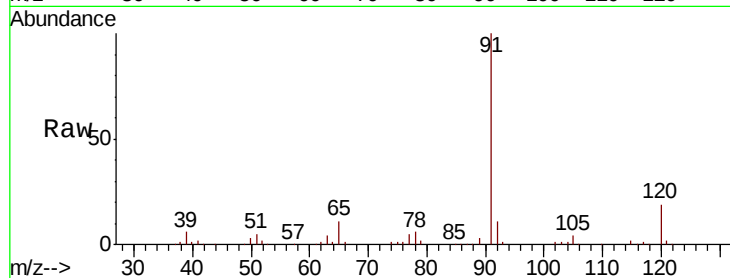
P021-SS001-0002-01MSD

Tot Ion: 91 Resp: 404412

Ion Ratio Lower Upper

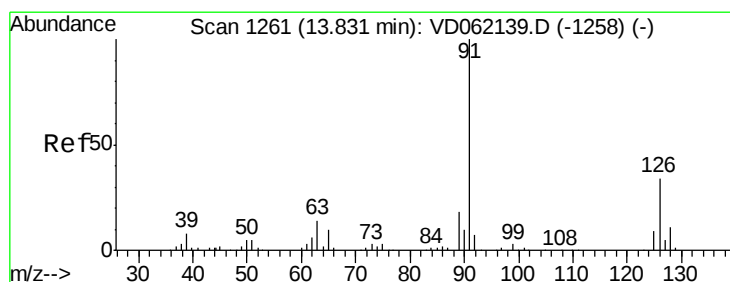
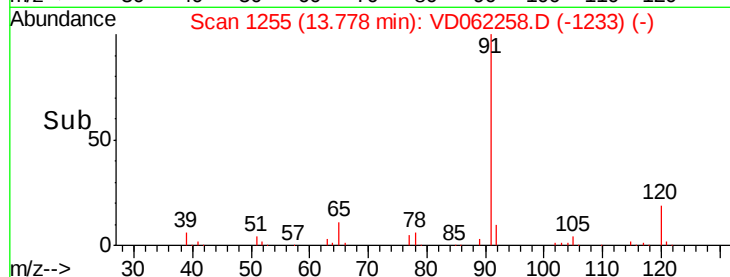
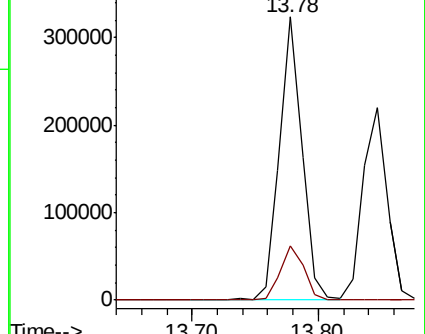
91 100

120 19.1 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): V



#79

2-Chlorotoluene

Concen: 58.728 ug/l

RT: 13.85 min Scan# 1262

Delta R.T. 0.02 min

Lab File: VD062258.D

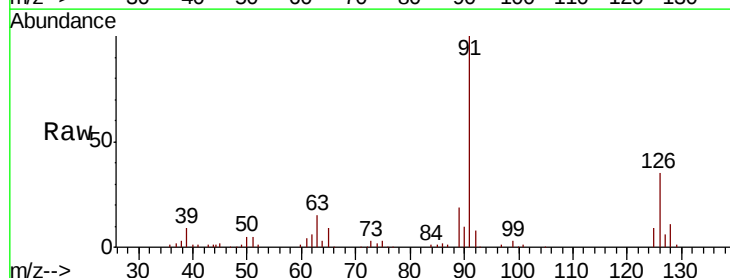
Acq: 12 May 2019 14:52

Tgt Ion: 91 Resp: 294976

Ion Ratio Lower Upper

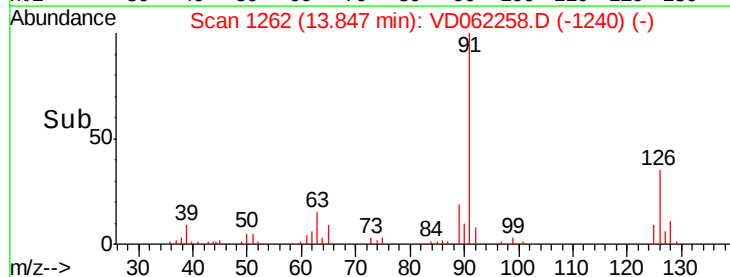
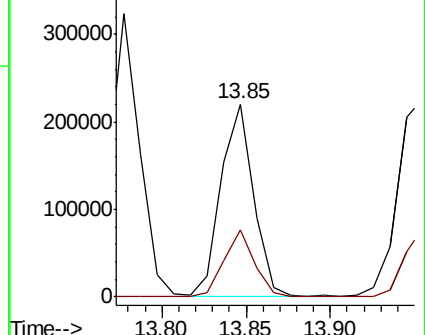
91 100

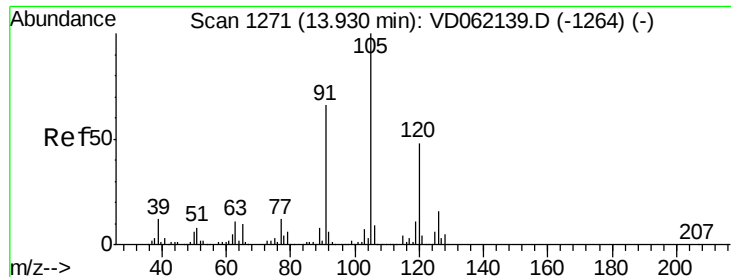
126 34.7 18.6 55.8



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V

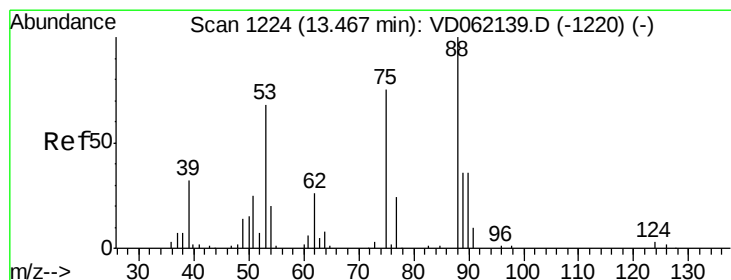
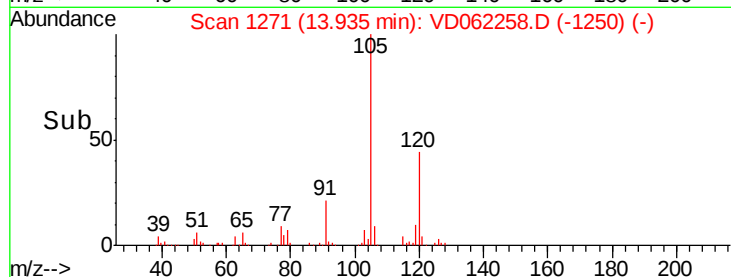
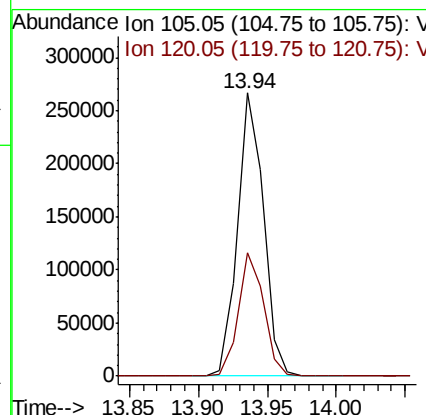
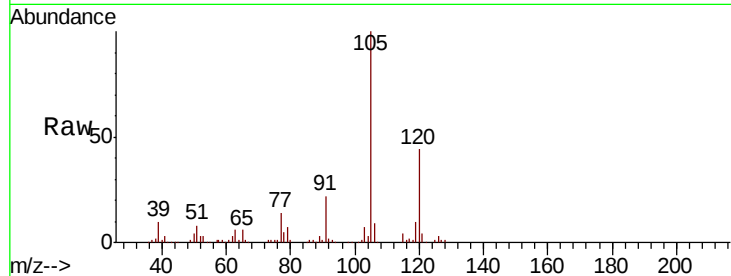




#80
 1,3,5-Trimethylbenzene
 Concen: 56.639 ug/l
 RT: 13.94 min Scan# 1271
 Delta R.T. 0.01 min
 Lab File: VD062258.D
 Acq: 12 May 2019 14:52

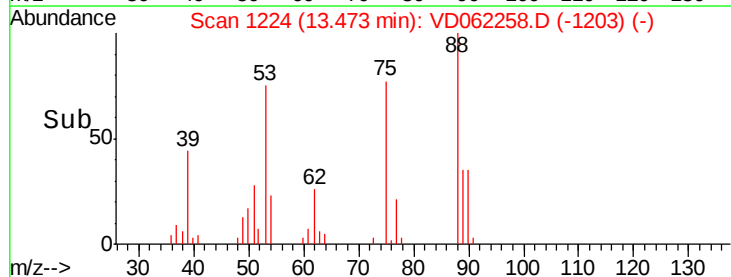
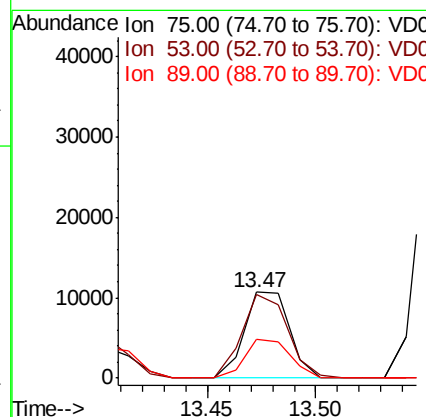
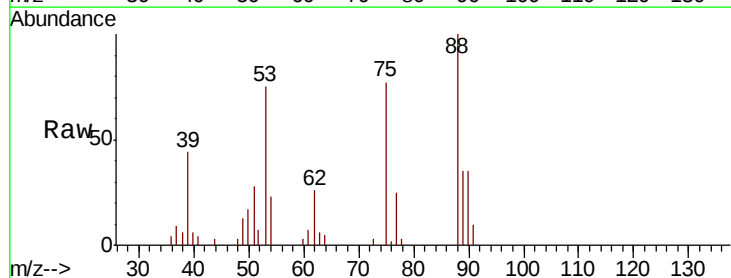
Instrument :
 MSVOA_D
 ClientSampleId :
 P021-SS001-0002-01MSD

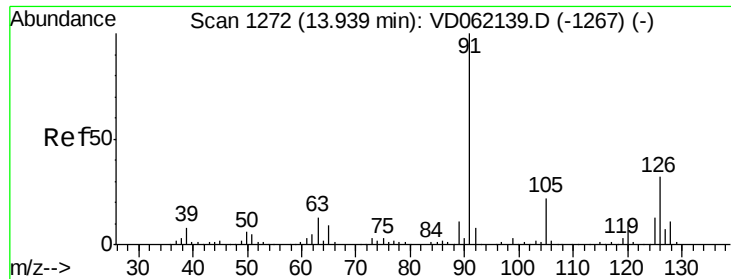
Tot Ion:105 Resp: 350651
 Ion Ratio Lower Upper
 105 100
 120 43.6 24.0 72.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 37.460 ug/l
 RT: 13.47 min Scan# 1224
 Delta R.T. 0.01 min
 Lab File: VD062258.D
 Acq: 12 May 2019 14:52

Tgt Ion: 75 Resp: 15414
 Ion Ratio Lower Upper
 75 100
 53 97.5 65.8 98.8
 89 45.6 35.0 52.6

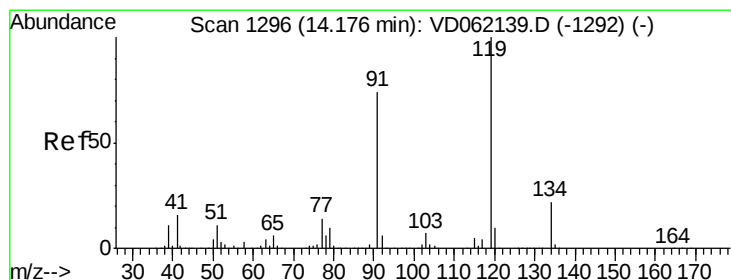
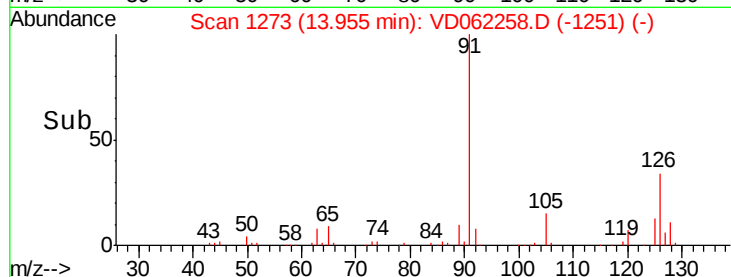
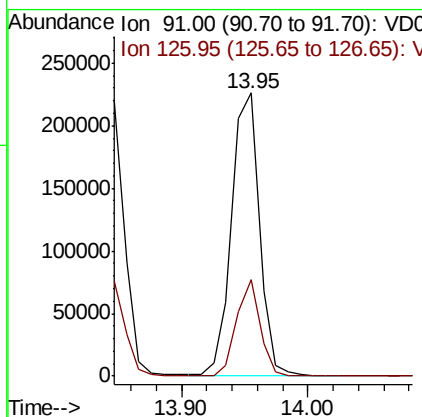
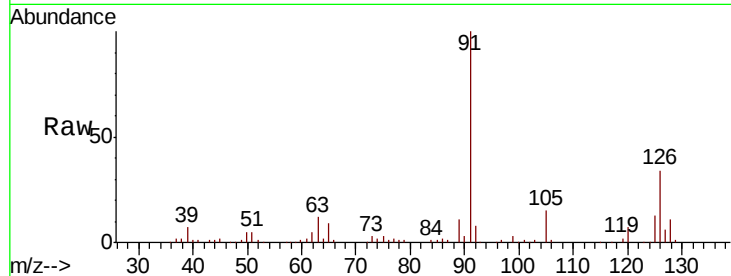




#82
4-Chlorotoluene
Concen: 58.493 ug/l
RT: 13.95 min Scan# 1273
Delta R.T. 0.02 min
Lab File: VD062258.D
Acq: 12 May 2019 14:52

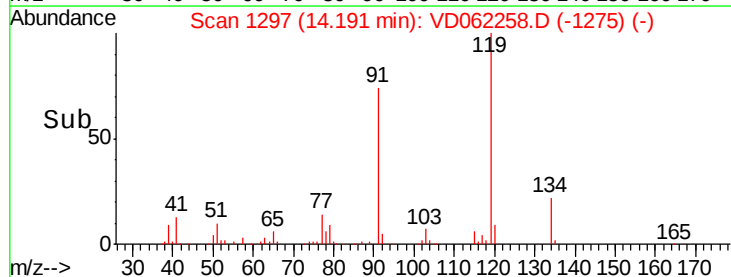
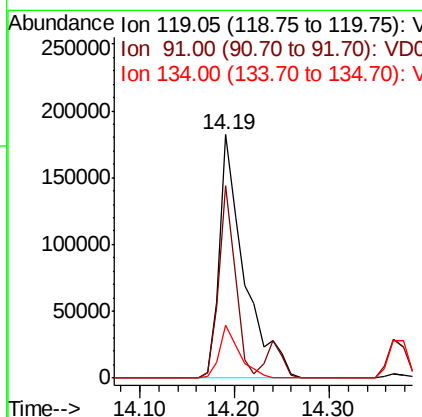
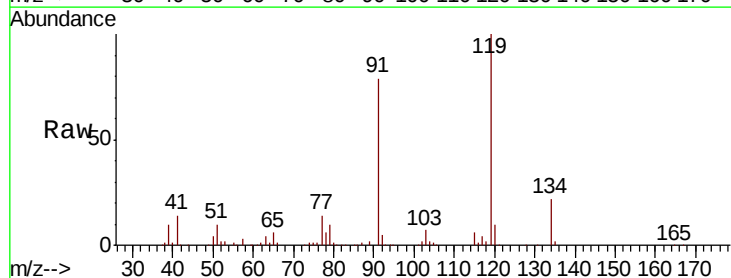
Instrument :
MSVOA_D
ClientSampleId :
P021-SS001-0002-01MSD

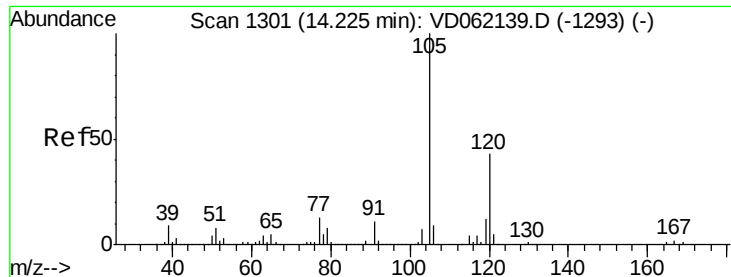
Tot Ion: 91 Resp: 345727
Ion Ratio Lower Upper
91 100
126 34.1 19.1 57.5



#83
tert-Butylbenzene
Concen: 47.697 ug/l
RT: 14.19 min Scan# 1297
Delta R.T. 0.02 min
Lab File: VD062258.D
Acq: 12 May 2019 14:52

Tgt Ion: 119 Resp: 331905
Ion Ratio Lower Upper
119 100
91 78.9 34.2 102.6
134 21.8 12.0 36.0

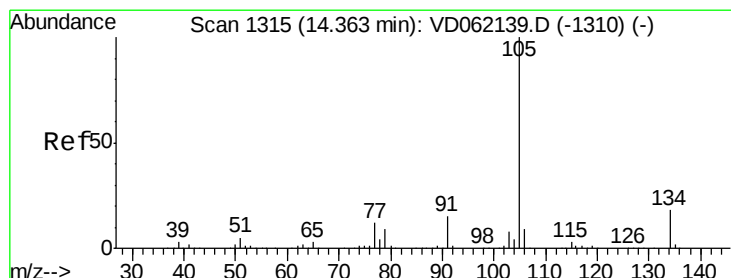
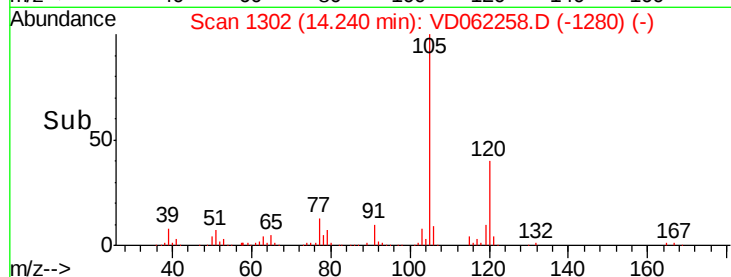
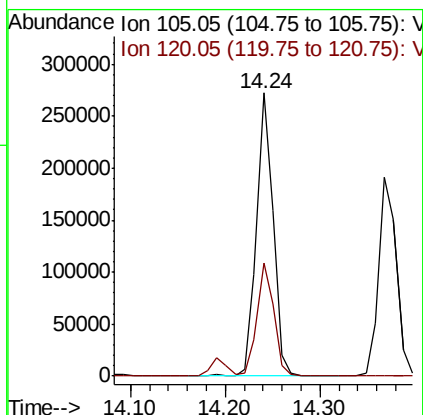
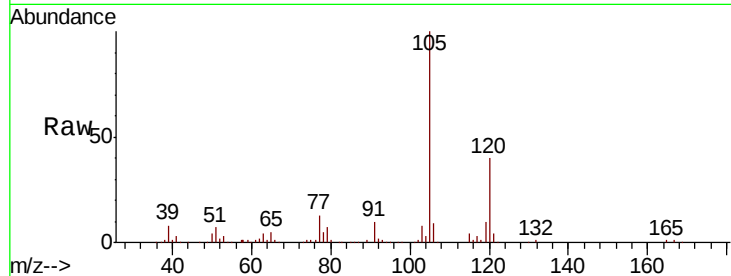




#84
 1,2,4-Trimethylbenzene
 Concen: 53.599 ug/l
 RT: 14.24 min Scan# 1302
 Delta R.T. 0.02 min
 Lab File: VD062258.D
 Acq: 12 May 2019 14:52

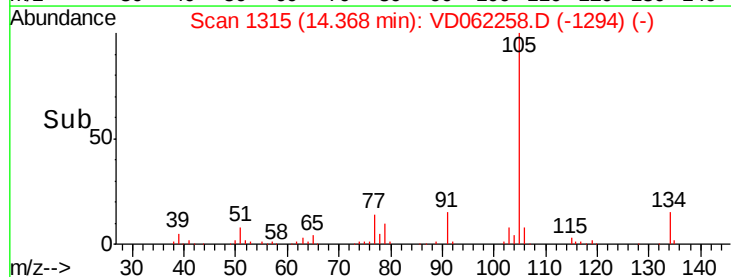
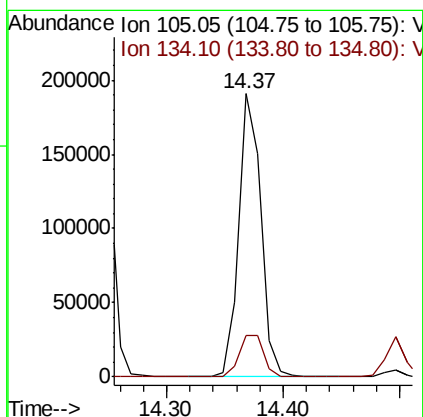
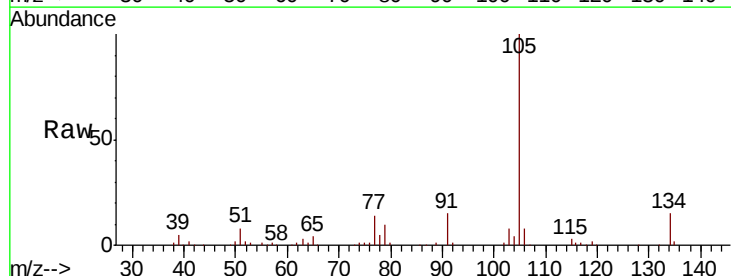
Instrument :
 MSVOA_D
 ClientSampleId :
 P021-SS001-0002-01MSD

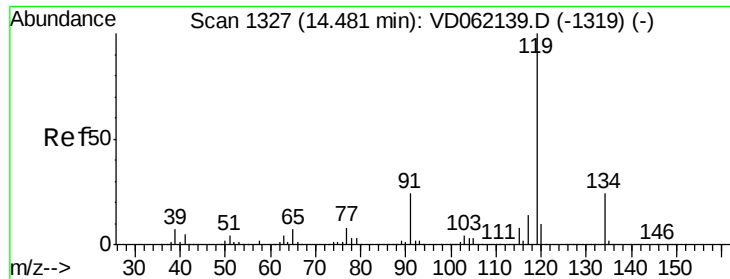
Tot Ion:105 Resp: 332990
 Ion Ratio Lower Upper
 105 100
 120 39.8 23.1 69.2



#85
 sec-Butylbenzene
 Concen: 32.929 ug/l
 RT: 14.37 min Scan# 1315
 Delta R.T. 0.01 min
 Lab File: VD062258.D
 Acq: 12 May 2019 14:52

Tgt Ion:105 Resp: 251230
 Ion Ratio Lower Upper
 105 100
 134 14.8 8.9 26.7

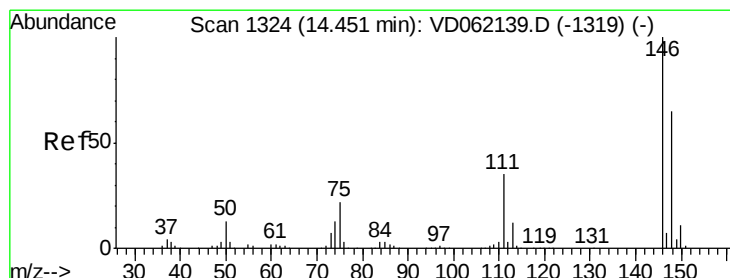
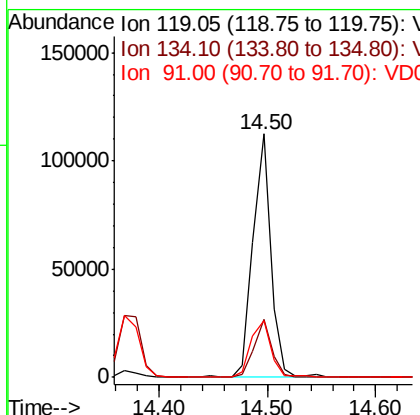
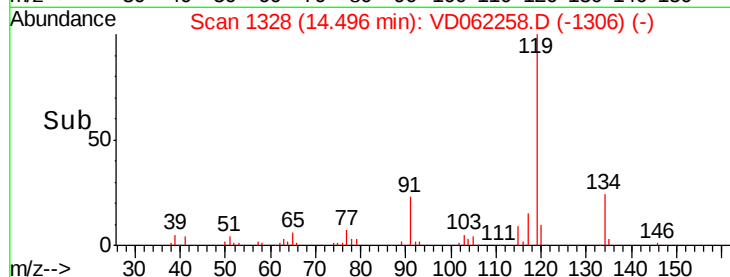
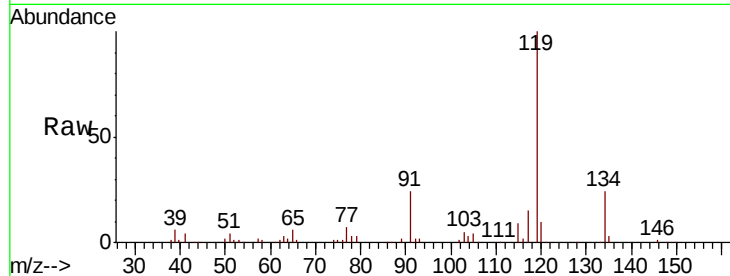




#86
p-Isopropyltoluene
Concen: 18.972 ug/l
RT: 14.50 min Scan# 1328
Delta R.T. 0.02 min
Lab File: VD062258.D
Acq: 12 May 2019 14:52

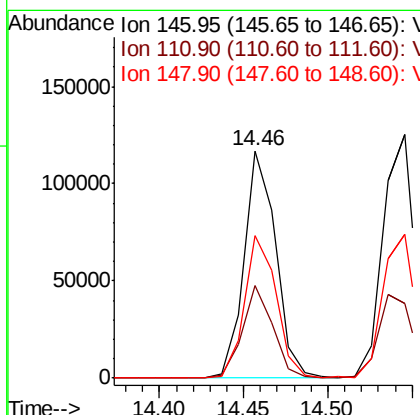
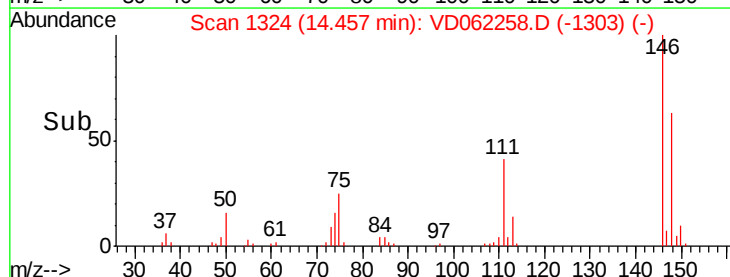
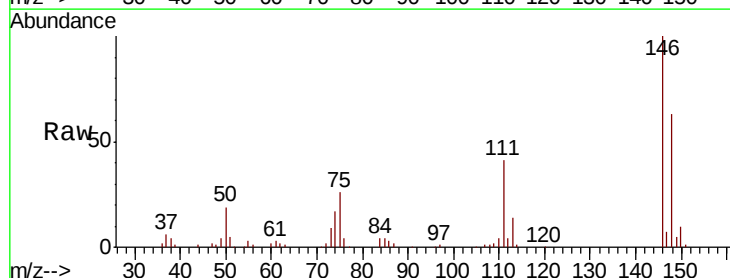
Instrument :
MSVOA_D
ClientSampleId :
P021-SS001-0002-01MSD

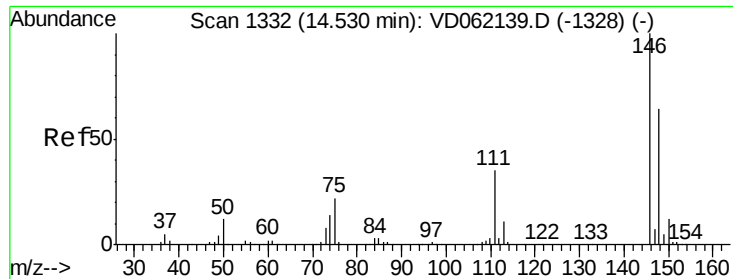
Tot Ion:119 Resp: 129322
Ion Ratio Lower Upper
119 100
134 23.9 12.8 38.3
91 23.5 10.7 32.1



#87
1,3-Dichlorobenzene
Concen: 40.485 ug/l
RT: 14.46 min Scan# 1324
Delta R.T. 0.01 min
Lab File: VD062258.D
Acq: 12 May 2019 14:52

Tgt Ion:146 Resp: 152210
Ion Ratio Lower Upper
146 100
111 40.7 20.0 60.0
148 62.9 31.8 95.4

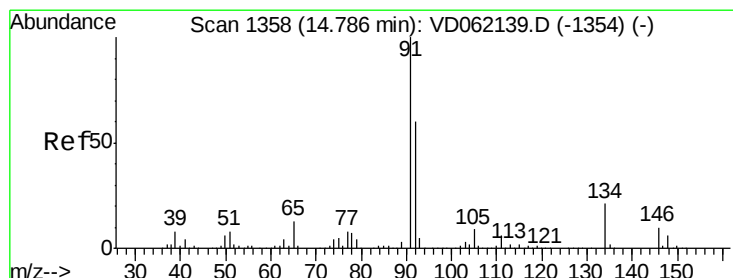
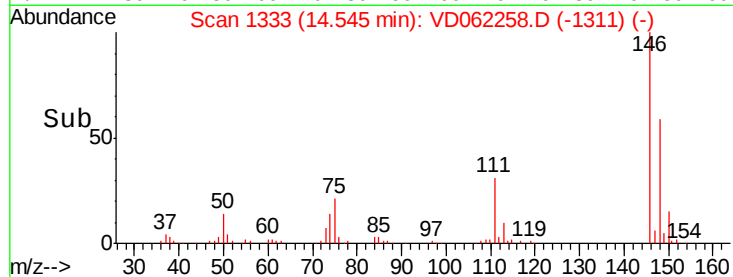
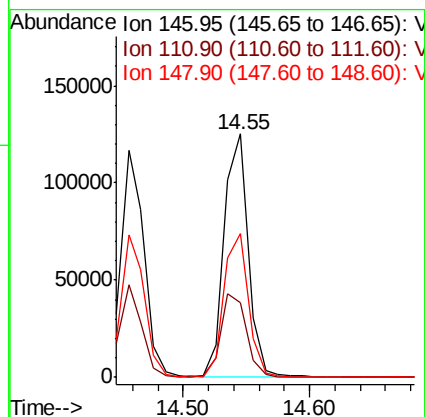
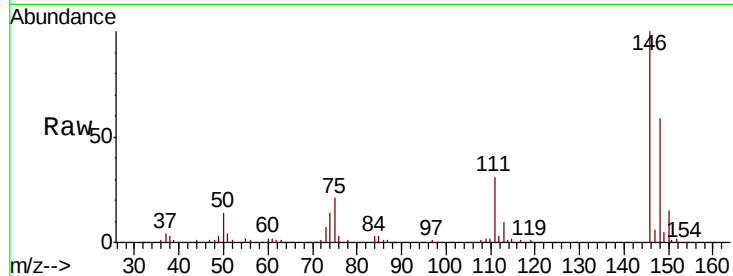




#88
 1,4-Dichlorobenzene
 Concen: 45.021 ug/l
 RT: 14.55 min Scan# 1333
 Delta R.T. 0.02 min
 Lab File: VD062258.D
 Acq: 12 May 2019 14:52

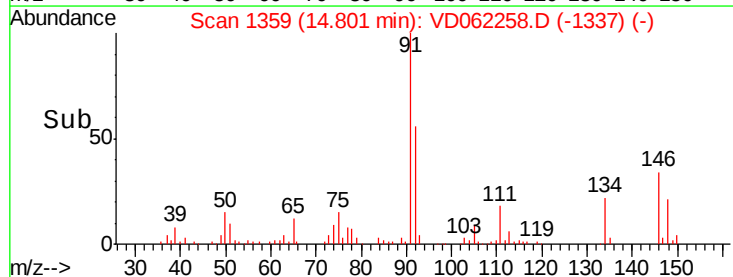
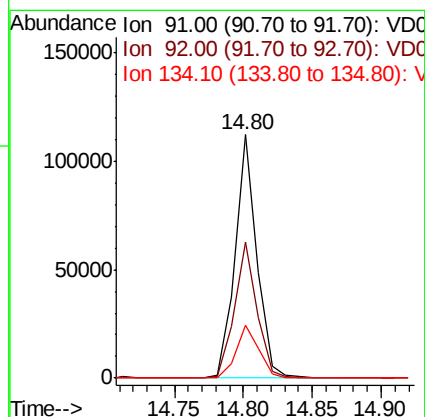
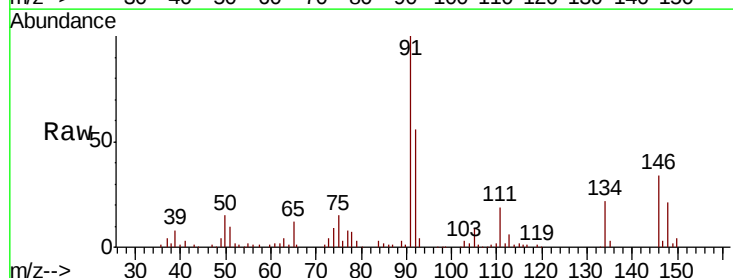
Instrument :
 MSVOA_D
 ClientSampleId :
 P021-SS001-0002-01MSD

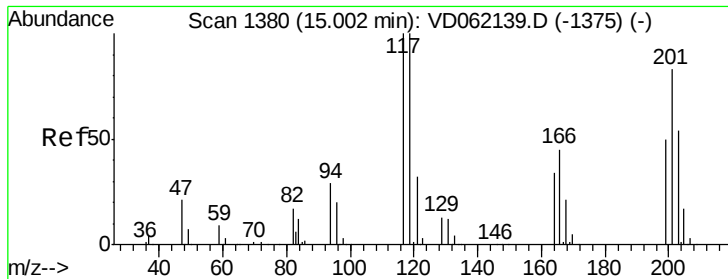
Tot Ion:146 Resp: 166313
 Ion Ratio Lower Upper
 146 100
 111 30.9 20.2 60.5
 148 59.0 32.0 96.2



#89
 n-Butylbenzene
 Concen: 20.083 ug/l
 RT: 14.80 min Scan# 1359
 Delta R.T. 0.02 min
 Lab File: VD062258.D
 Acq: 12 May 2019 14:52

Tgt Ion: 91 Resp: 122871
 Ion Ratio Lower Upper
 91 100
 92 56.1 30.3 91.0
 134 21.9 14.5 43.6

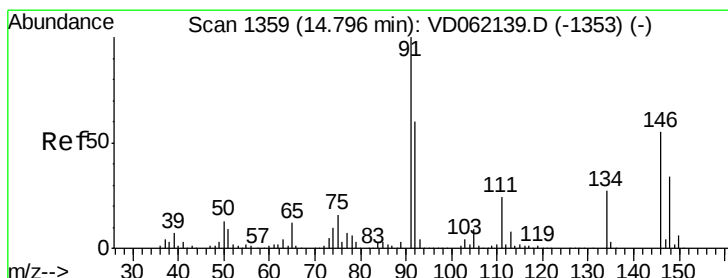
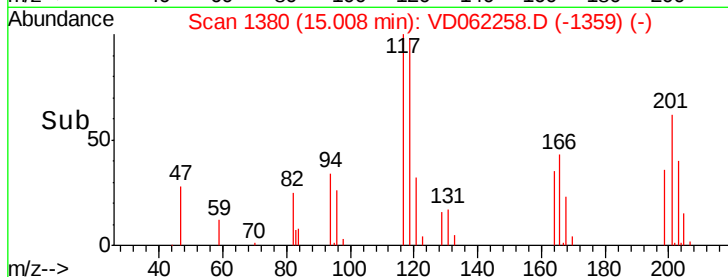
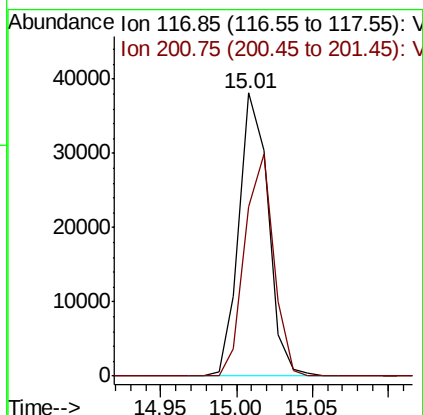
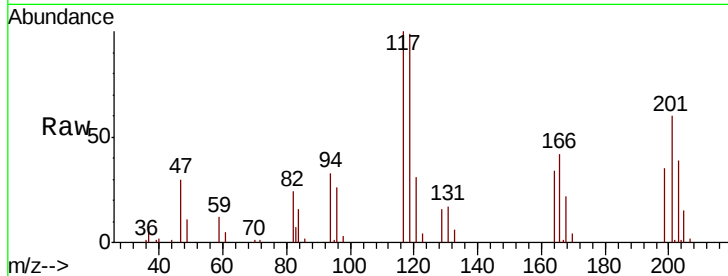




#90
Hexachloroethane
Concen: 27.646 ug/l
RT: 15.01 min Scan# 1380
Delta R.T. 0.01 min
Lab File: VD062258.D
Acq: 12 May 2019 14:52

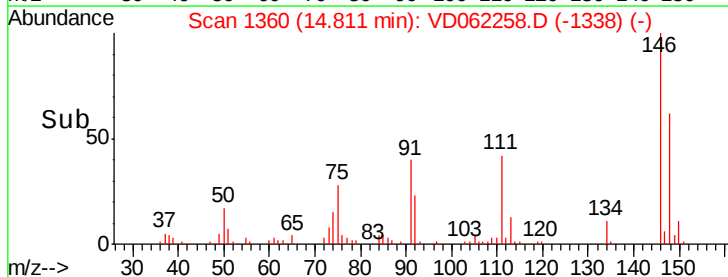
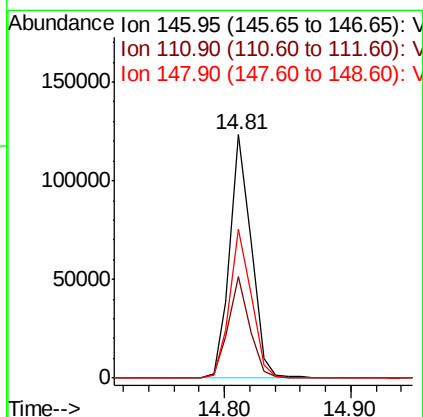
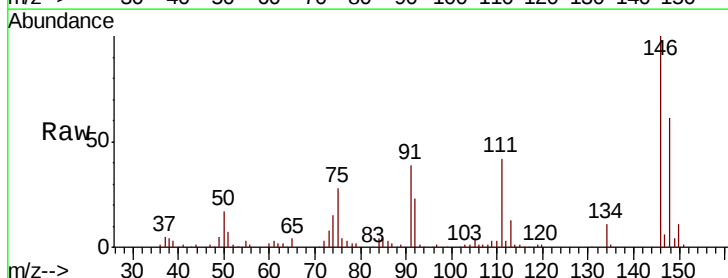
Instrument :
MSVOA_D
ClientSampleId :
P021-SS001-0002-01MSD

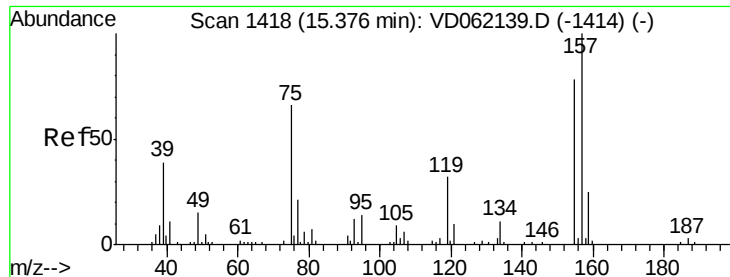
Tot Ion:117 Resp: 51247
Ion Ratio Lower Upper
117 100
201 59.9 30.2 90.6



#91
1,2-Dichlorobenzene
Concen: 47.040 ug/l
RT: 14.81 min Scan# 1360
Delta R.T. 0.02 min
Lab File: VD062258.D
Acq: 12 May 2019 14:52

Tgt Ion:146 Resp: 145650
Ion Ratio Lower Upper
146 100
111 41.8 20.0 59.9
148 61.3 32.3 96.8





#92

1,2-Dibromo-3-Chloropropane

Concen: 74.281 ug/l

RT: 15.38 min Scan# 1418

Delta R.T. 0.01 min

Lab File: VD062258.D

Acq: 12 May 2019 14:52

Instrument :

MSVOA_D

ClientSampleId :

P021-SS001-0002-01MSD

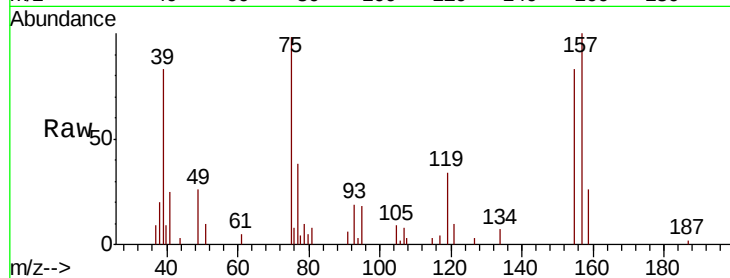
Tot Ion: 75 Resp: 16971

Ion Ratio Lower Upper

75 100

155 85.0 55.3 165.8

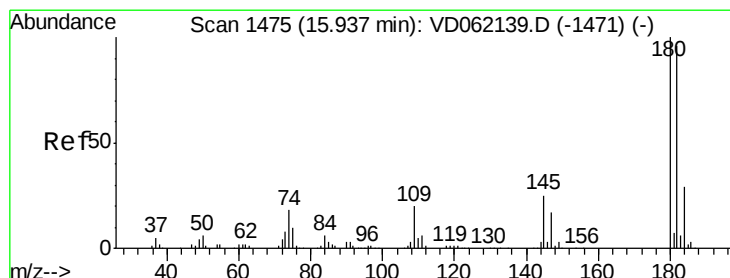
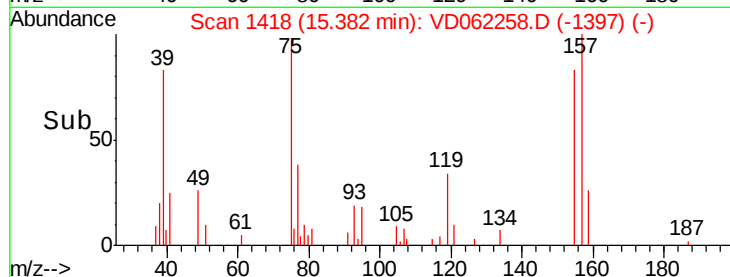
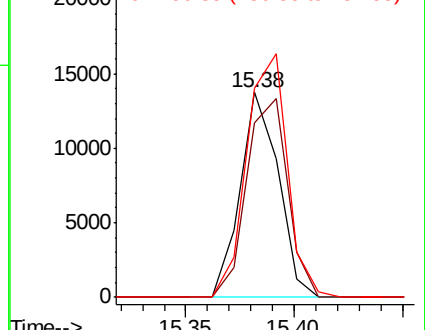
157 102.2 67.8 203.2



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V



#93

1,2,4-Trichlorobenzene

Concen: 18.614 ug/l

RT: 15.95 min Scan# 1476

Delta R.T. 0.02 min

Lab File: VD062258.D

Acq: 12 May 2019 14:52

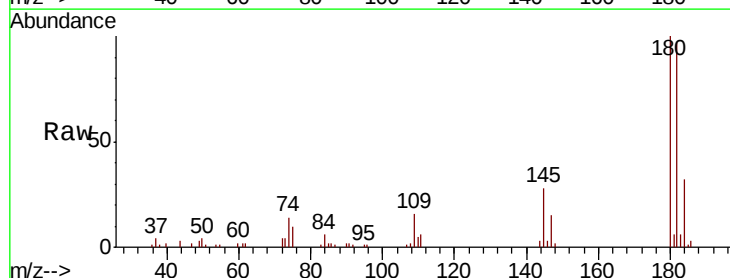
Tgt Ion:180 Resp: 41949

Ion Ratio Lower Upper

180 100

182 97.1 49.3 147.8

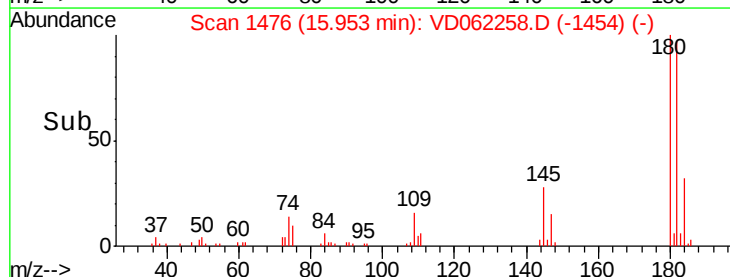
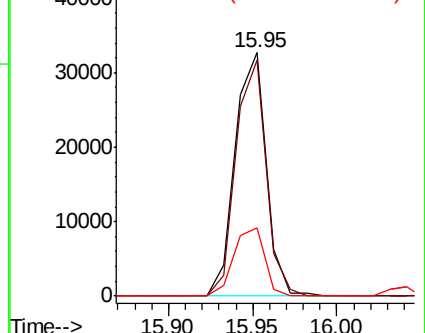
145 28.2 16.2 48.6

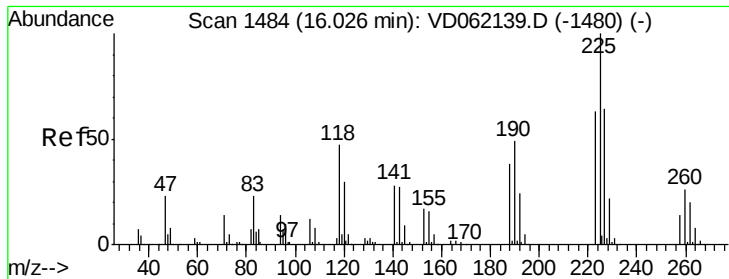


Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V





#94

Hexachlorobutadiene

Concen: 10.750 ug/l

RT: 16.04 min Scan# 1485

Delta R.T. 0.02 min

Lab File: VD062258.D

Acq: 12 May 2019 14:52

Instrument :

MSVOA_D

ClientSampleId :

P021-SS001-0002-01MSD

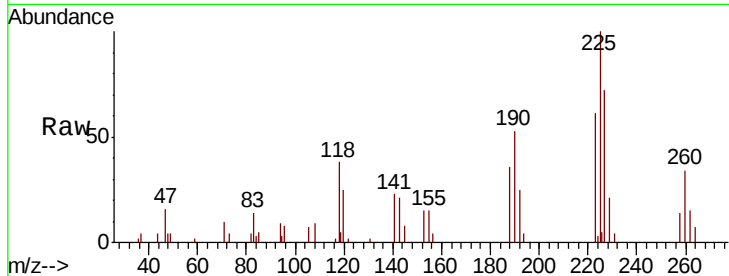
Tot Ion:225 Resp: 18020

Ion Ratio Lower Upper

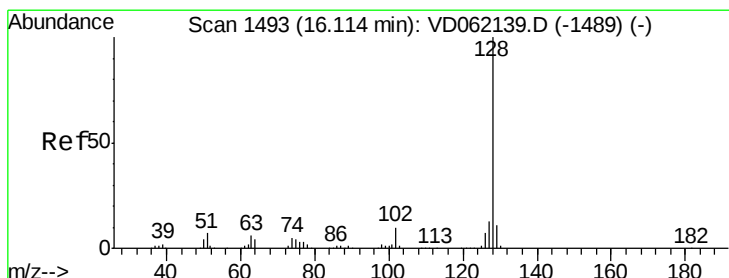
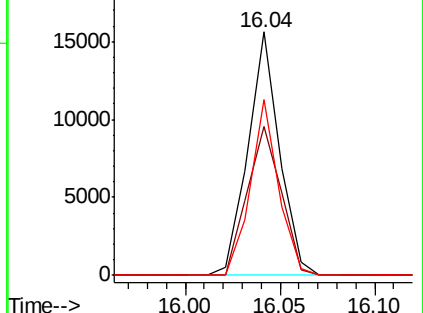
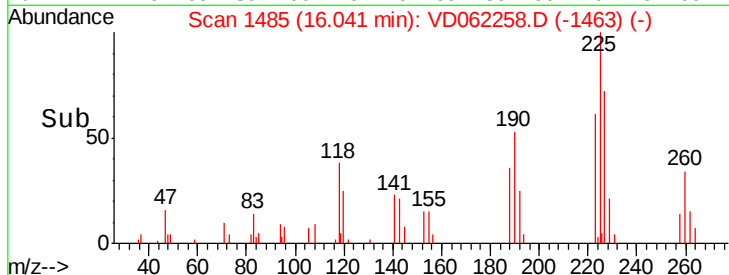
225 100

223 61.0 30.6 92.0

227 72.4 32.0 96.2



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: 28.123 ug/l

RT: 16.13 min Scan# 1494

Delta R.T. 0.02 min

Lab File: VD062258.D

Acq: 12 May 2019 14:52

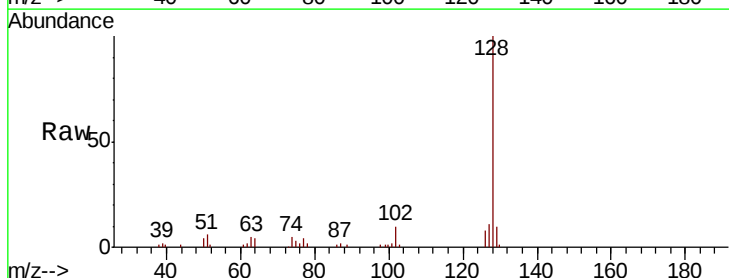
Tgt Ion:128 Resp: 88486

Ion Ratio Lower Upper

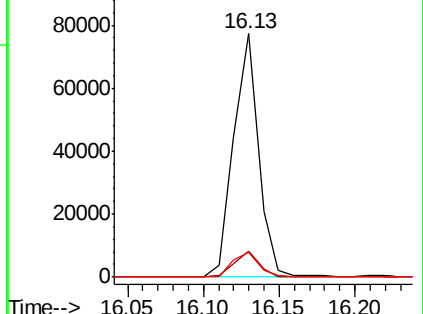
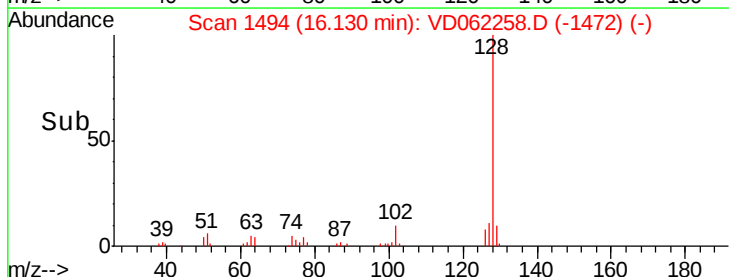
128 100

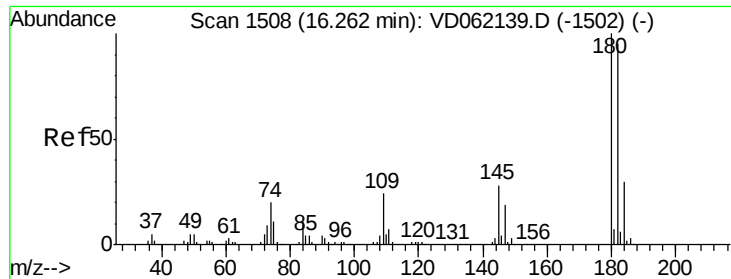
127 10.6 9.8 14.8

129 10.2 8.8 13.2



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

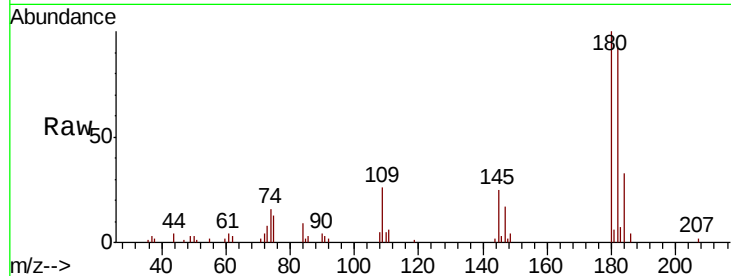




#96
 1,2,3-Trichlorobenzene
 Concen: 19.192 ug/l
 RT: 16.28 min Scan# 1509
 Delta R.T. 0.02 min
 Lab File: VD062258.D
 Acq: 12 May 2019 14:52

Instrument :
 MSVOA_D
 ClientSampleId :
 P021-SS001-0002-01MSD

Tot Ion	Ratio	Lower	Upper
180	100		
182	92.2	47.0	141.0
145	24.8	17.0	51.0



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

