

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061419\
 Data File : VD062713.D
 Acq On : 14 Jun 2019 16:12
 Operator : VA/AP
 Sample : K3366-01RE
 Misc : 5.03g/5ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 OILY-SOILRE

Quant Time: Jun 15 04:37:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 00:02:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	505411	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.23	114	714538	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.37	117	414693	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	100078	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	314666	43.15	ug/l	0.01
Spiked Amount			Recovery	=	86.30%	
35) Dibromofluoromethane	6.93	113	294336	39.06	ug/l	0.01
Spiked Amount			Recovery	=	78.12%	
50) Toluene-d8	10.41	98	344483	21.73	ug/l	0.00
Spiked Amount			Recovery	=	43.46%	
62) 4-Bromofluorobenzene	13.55	95	127489	17.24	ug/l	0.00
Spiked Amount			Recovery	=	34.48%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	449	Below Cal	#	42
10) Methyl Iodide	3.31	142	898	4.100	ug/l #	24
11) Tert butyl alcohol	4.08	59	7055	23.534	ug/l #	61
13) Acrolein	2.93	56	181	1.877	ug/l #	12
15) Acrylonitrile	4.24	53	924	1.356	ug/l #	63
16) Acetone	3.23	43	226959	169.947	ug/l	97
17) Carbon Disulfide	3.38	76	63762	4.844	ug/l	97
18) Methyl Acetate	3.65	43	23992	10.932	ug/l #	92
20) Methylene Chloride	3.82	84	16452	2.844	ug/l #	81
25) 2-Butanone	6.09	43	32431	24.892	ug/l #	92
31) Cyclohexane	6.97	56	24381	4.236	ug/l #	87
36) 1,1-Dichloropropene	7.05	75	40822	4.992	ug/l #	48
37) Ethyl Acetate	6.09	43	32431	10.278	ug/l #	74
38) Carbon Tetrachloride	7.06	117	52378	4.052	ug/l #	16
39) Methylcyclohexane	8.88	83	63860	9.663	ug/l	87
40) Benzene	7.46	78	54503	3.413	ug/l	94
43) Isopropyl Acetate	9.27	43	5964	1.382	ug/l #	52
49) 1,4-Dioxane	9.22	88	224	54.920	ug/l #	21
51) 4-Methyl-2-Pentanone	10.31	43	10820	3.584	ug/l	99
52) Toluene	10.51	92	53660	4.999	ug/l	90
55) 1,1,2-Trichloroethane	11.10	97	23009	6.250	ug/l #	20
56) Ethyl methacrylate	11.09	69	5017	4.981	ug/l #	1
59) 2-Hexanone	11.50	43	30526	13.592	ug/l #	32
67) Ethyl Benzene	12.53	91	94691	5.822	ug/l	93
68) m/p-Xylenes	12.67	106	170788	29.871	ug/l	91
69) o-Xylene	13.05	106	79364	15.114	ug/l	92
73) Isopropylbenzene	13.41	105	9047	1.283	ug/l	91
74) N-amyl acetate	13.22	43	36579	19.188	ug/l #	50
75) 1,1,2,2-Tetrachloroethane	13.71	83	6268	5.193	ug/l #	75
78) n-propylbenzene	13.77	91	22473	2.603	ug/l	96
79) 2-Chlorotoluene	13.85	91	13477	2.666	ug/l #	52
80) 1,3,5-Trimethylbenzene	13.94	105	56882	9.124	ug/l	98
81) trans-1,4-Dichloro-2-buten	13.55	75	54167	128.014	ug/l #	2
82) 4-Chlorotoluene	13.93	91	11252	1.861	ug/l #	43

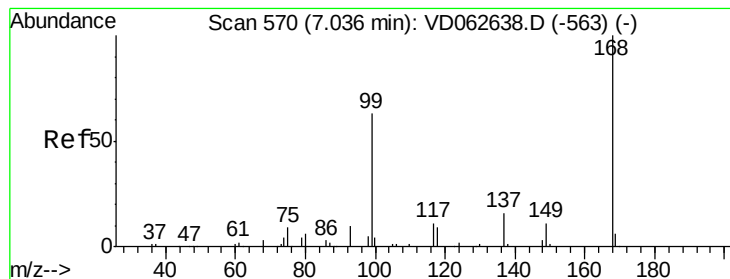
Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061419\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
84) 1,2,4-Trimethylbenzene	14.24	105	123087	19.941	ug/l	96
85) sec-Butylbenzene	14.37	105	12460	1.728	ug/l	91
86) p-Isopropyltoluene	14.49	119	11044	1.573	ug/l	86
89) n-Butylbenzene	14.77	91	34490	5.461	ug/l #	1
90) Hexachloroethane	14.98	117	5219	2.816	ug/l #	8
92) 1,2-Dibromo-3-Chloropropan	15.37	75	1495	5.799	ug/l #	12
93) 1,2,4-Trichlorobenzene	15.95	180	2994	4.648	ug/l #	25
95) Naphthalene	16.12	128	22572	9.237	ug/l #	90
96) 1,2,3-Trichlorobenzene	16.25	180	6979	3.991	ug/l #	41

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.02 min

Lab File: VD062713.D

Acq: 14 Jun 2019 16:12

Instrument :

MSVOA_D

ClientSampleId :

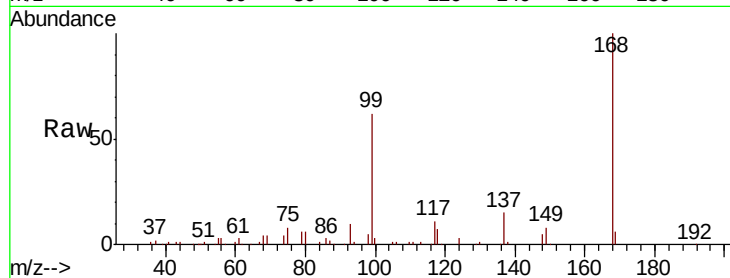
OILY-SOILRE

Tot Ion:168 Resp: 505411

Ion Ratio Lower Upper

168 100

99 61.6 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.06

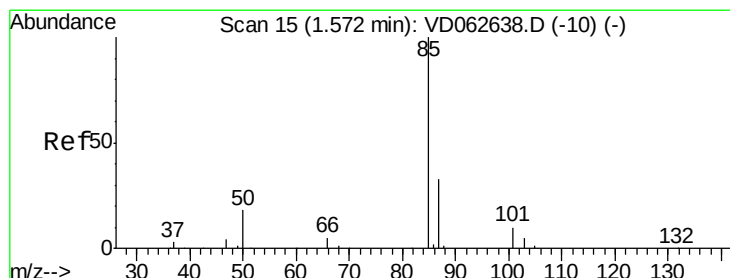
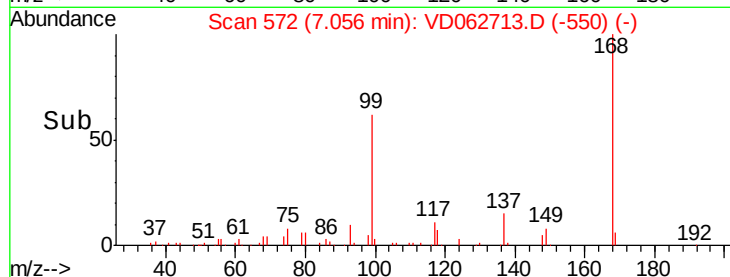
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.58 min Scan# 16

Delta R.T. 0.01 min

Lab File: VD062713.D

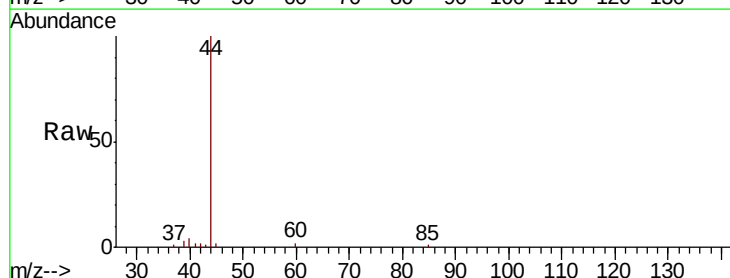
Acq: 14 Jun 2019 16:12

Tgt Ion: 85 Resp: 449

Ion Ratio Lower Upper

85 100

87 0.0 16.6 49.7#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.58

800

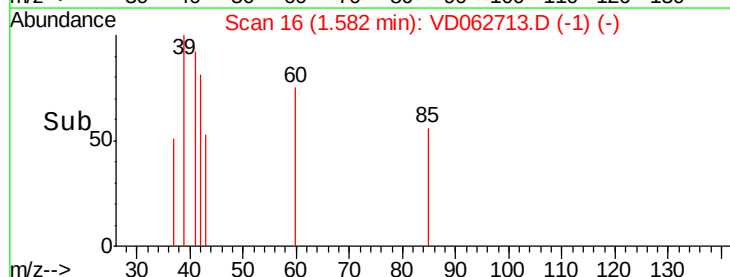
600

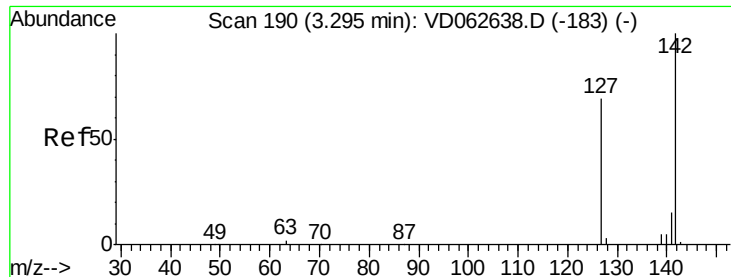
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200

0

Time-->

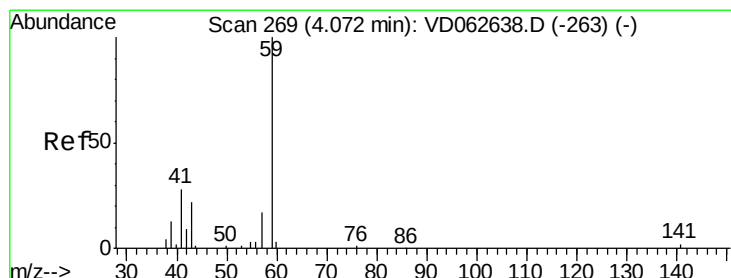
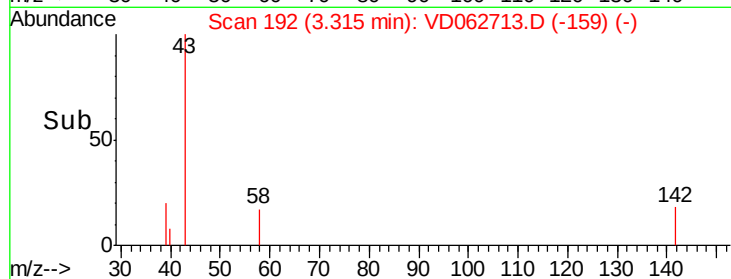
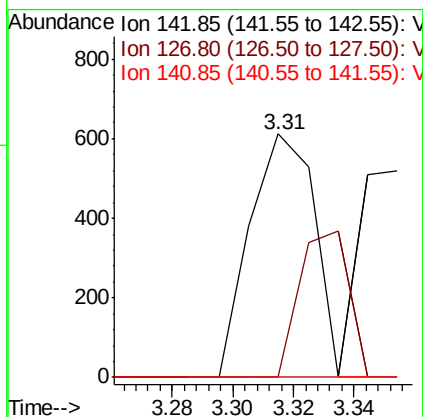
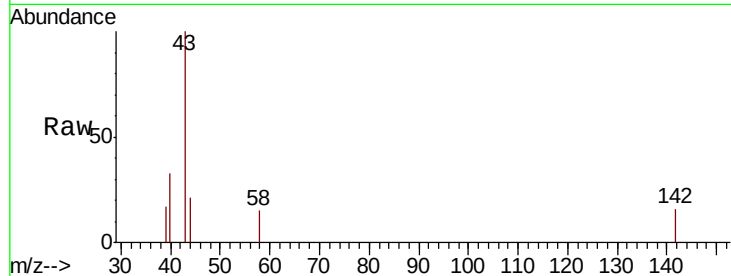




#10
Methvl Iodide
Concen: 4.100 ug/l
RT: 3.31 min Scan# 192
Delta R.T. 0.02 min
Lab File: VD062713.D
Acq: 14 Jun 2019 16:12

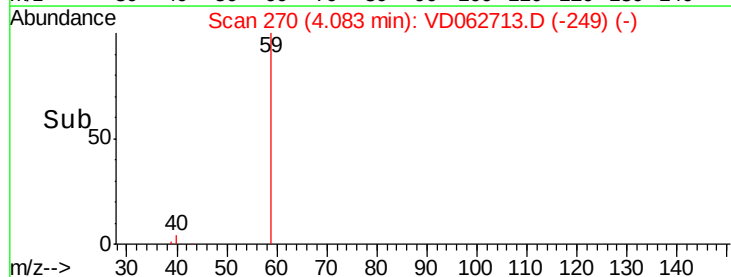
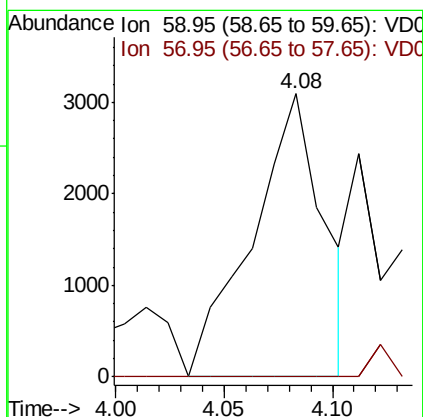
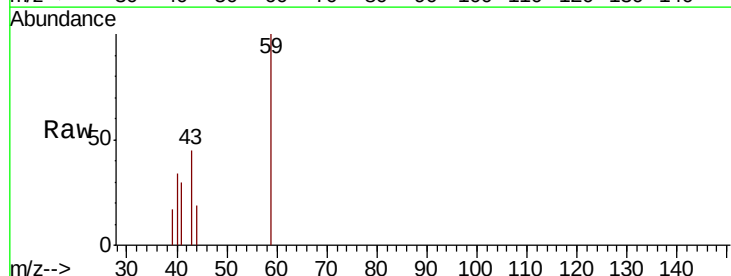
Instrument :
MSVOA_D
ClientSampleId :
OILY-SOILRE

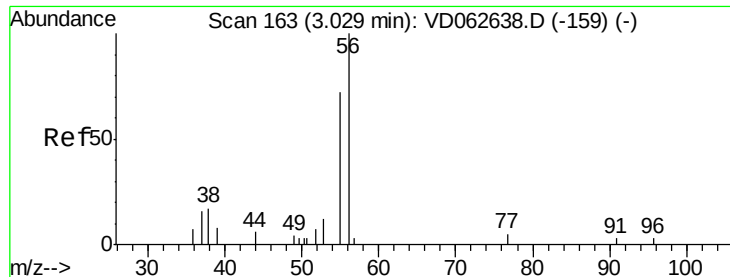
Tot Ion:142 Resp: 898
Ion Ratio Lower Upper
142 100
127 0.0 55.2 82.8#
141 0.0 12.1 18.1#



#11
Tert butyl alcohol
Concen: 23.534 ug/l
RT: 4.08 min Scan# 270
Delta R.T. 0.01 min
Lab File: VD062713.D
Acq: 14 Jun 2019 16:12

Tgt Ion: 59 Resp: 7055
Ion Ratio Lower Upper
59 100
57 0.0 13.7 20.5#





#13

Acrolein

Concen: 1.877 ug/l

RT: 2.93 min Scan# 153

Delta R.T. -0.10 min

Lab File: VD062713.D

Acq: 14 Jun 2019 16:12

Instrument :

MSVOA_D

ClientSampleId :

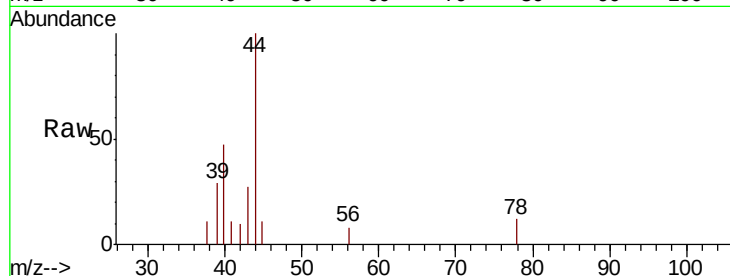
OILY-SOILRE

Tot Ion: 56 Resp: 181

Ion Ratio Lower Upper

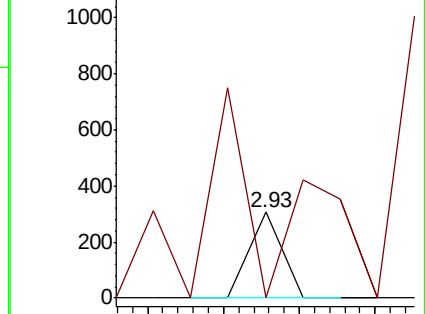
56 100

55 0.0 59.4 89.0#

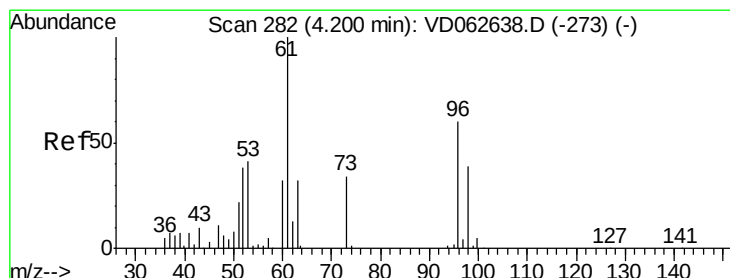
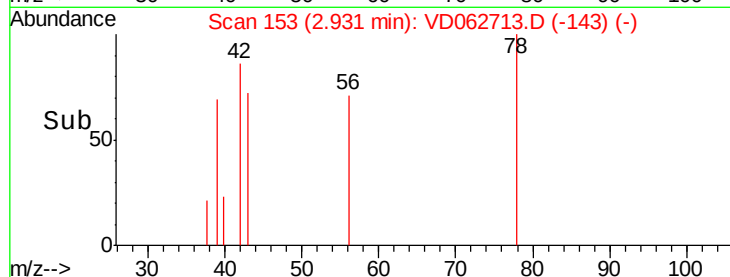


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



Time-->



#15

Acrylonitrile

Concen: 1.356 ug/l

RT: 4.24 min Scan# 286

Delta R.T. 0.04 min

Lab File: VD062713.D

Acq: 14 Jun 2019 16:12

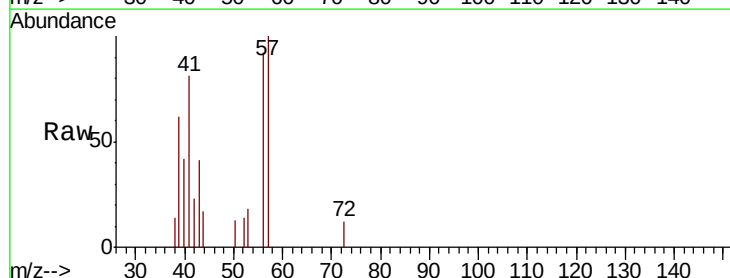
Tgt Ion: 53 Resp: 924

Ion Ratio Lower Upper

53 100

52 77.0 73.6 110.4

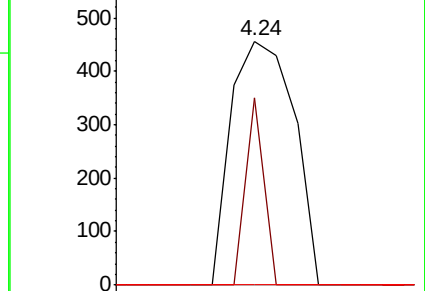
51 0.0 42.0 63.0#



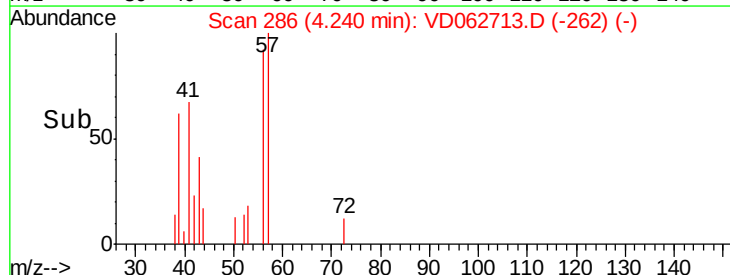
Abundance Ion 53.00 (52.70 to 53.70): VDC

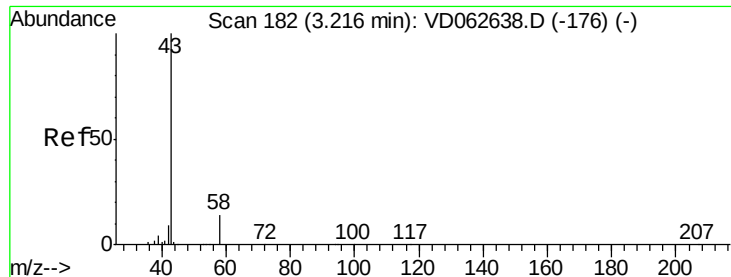
Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC



Time-->





#16

Acetone

Concen: 169.947 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD062713.D

Acq: 14 Jun 2019 16:12

Instrument :

MSVOA_D

ClientSampleId :

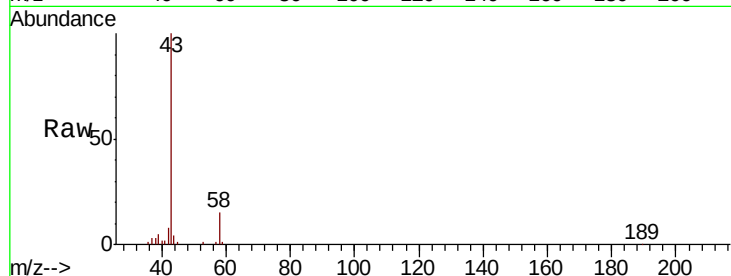
OILY-SOILRE

Tot Ion: 43 Resp: 226959

Ion Ratio Lower Upper

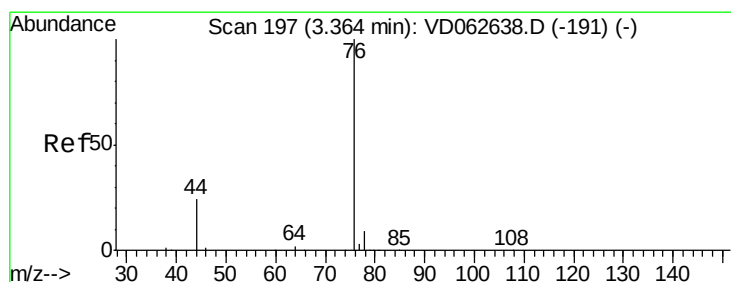
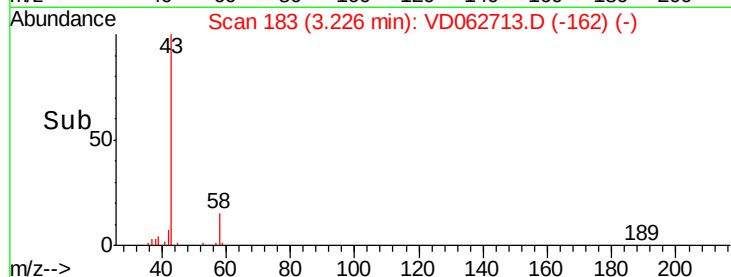
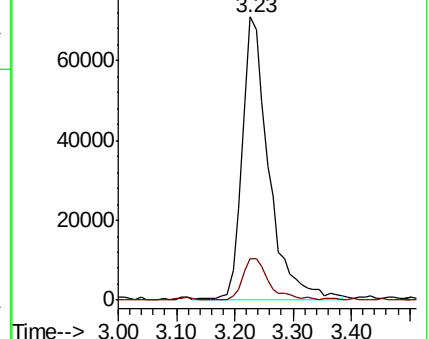
43 100

58 14.7 10.8 16.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#17

Carbon Disulfide

Concen: 4.844 ug/l

RT: 3.38 min Scan# 199

Delta R.T. 0.02 min

Lab File: VD062713.D

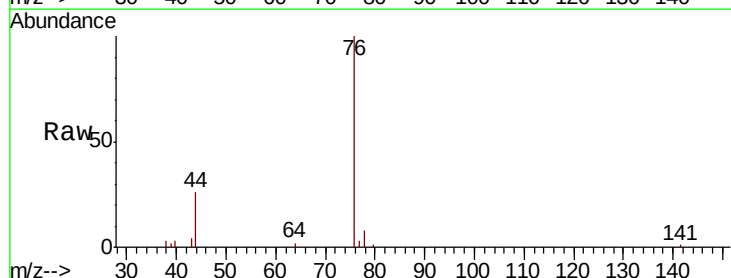
Acq: 14 Jun 2019 16:12

Tgt Ion: 76 Resp: 63762

Ion Ratio Lower Upper

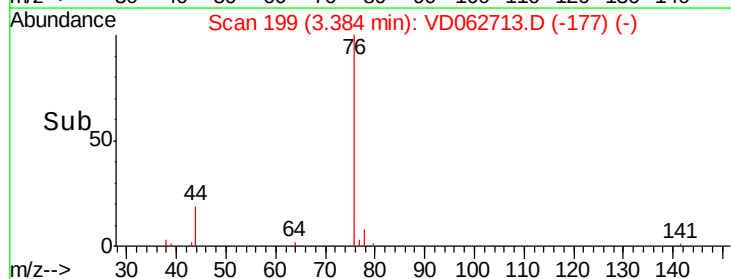
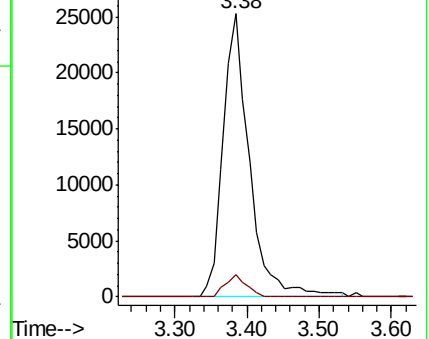
76 100

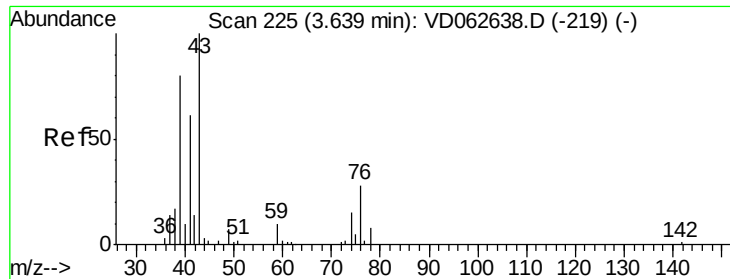
78 7.7 7.0 10.4



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

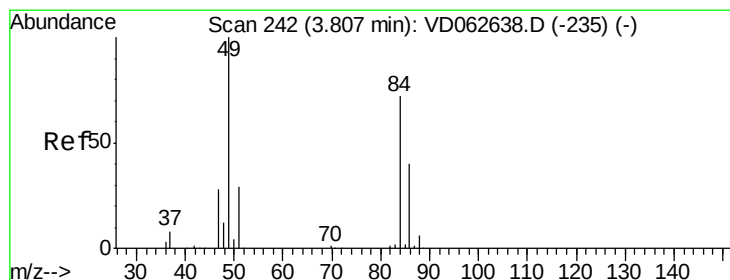
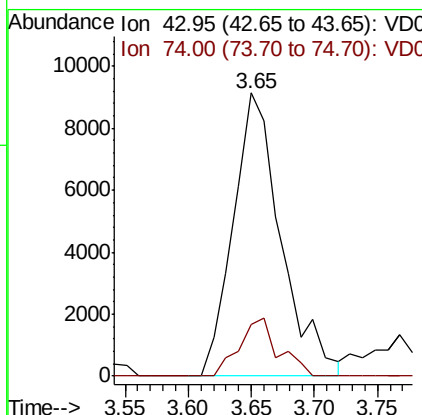
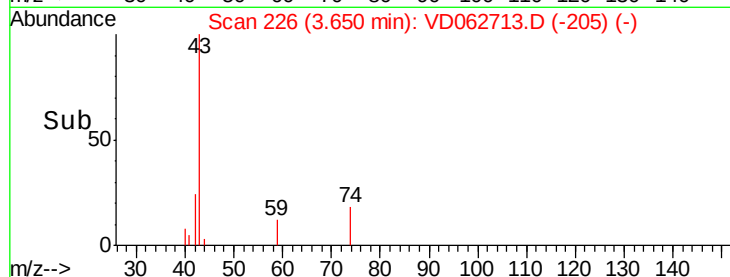
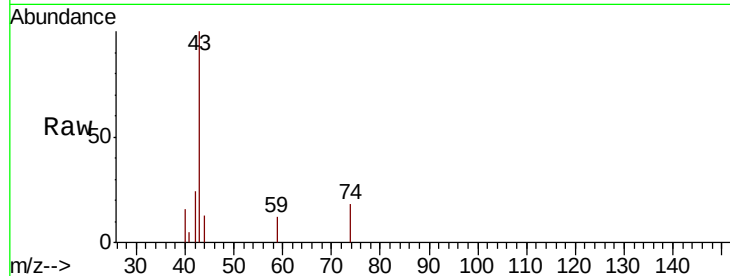




#18
Methvl Acetate
Concen: 10.932 ug/l
RT: 3.65 min Scan# 226
Delta R.T. 0.01 min
Lab File: VD062713.D
Acq: 14 Jun 2019 16:12

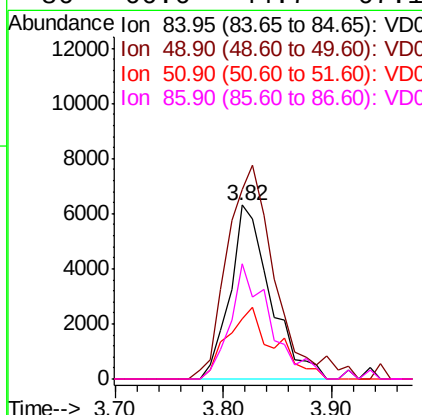
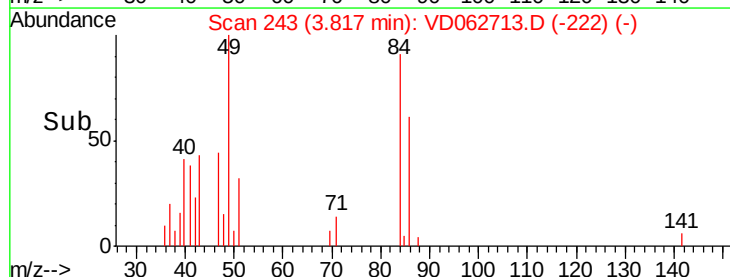
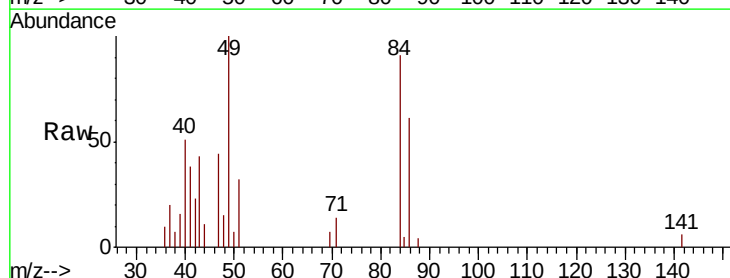
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OILY-SOILRE

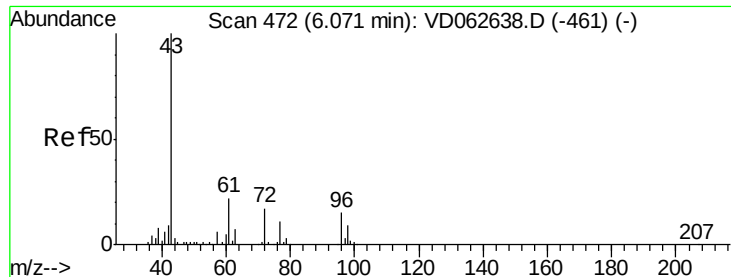
Tot Ion: 43 Resp: 23992
Ion Ratio Lower Upper
43 100
74 18.3 12.1 18.1#



#20
Methylene Chloride
Concen: 2.844 ug/l
RT: 3.82 min Scan# 243
Delta R.T. 0.01 min
Lab File: VD062713.D
Acq: 14 Jun 2019 16:12

Tgt Ion: 84 Resp: 16452
Ion Ratio Lower Upper
84 100
49 109.4 111.2 166.8#
51 35.0 31.9 47.9
86 66.6 44.7 67.1





#25

2-Butanone

Concen: 24.892 ug/l

RT: 6.09 min Scan# 474

Delta R.T. 0.02 min

Lab File: VD062713.D

Acq: 14 Jun 2019 16:12

Instrument :

MSVOA_D

ClientSampleId :

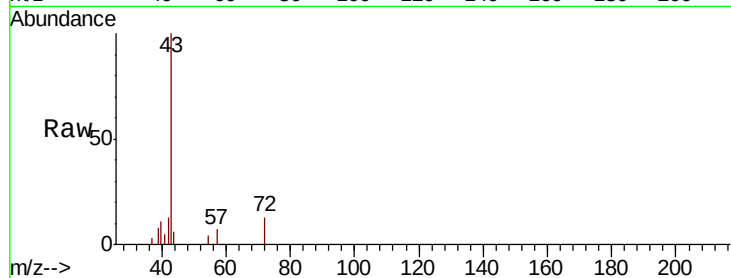
OILY-SOILRE

Tot Ion: 43 Resp: 32431

Ion Ratio Lower Upper

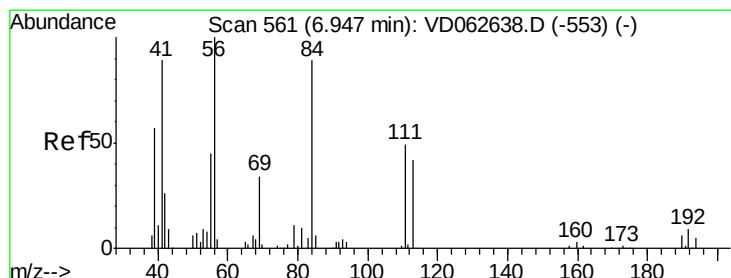
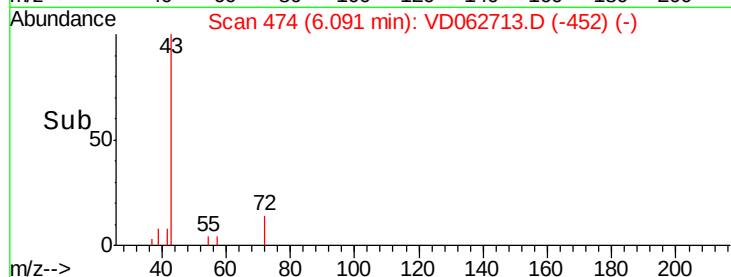
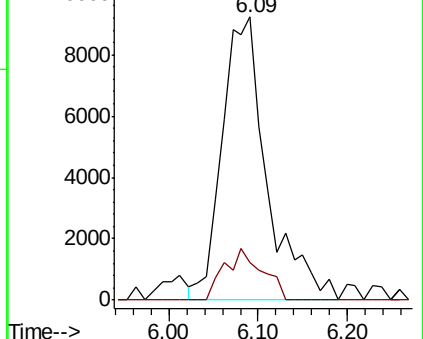
43 100

72 13.4 13.5 20.3#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#31

Cyclohexane

Concen: 4.236 ug/l

RT: 6.97 min Scan# 563

Delta R.T. 0.02 min

Lab File: VD062713.D

Acq: 14 Jun 2019 16:12

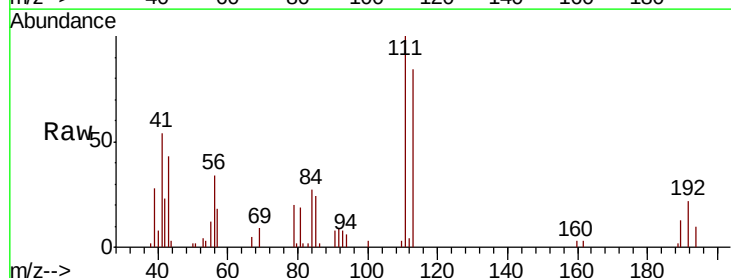
Tgt Ion: 56 Resp: 24381

Ion Ratio Lower Upper

56 100

69 25.5 26.8 40.2#

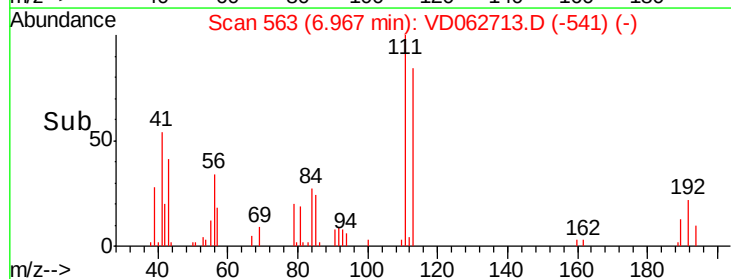
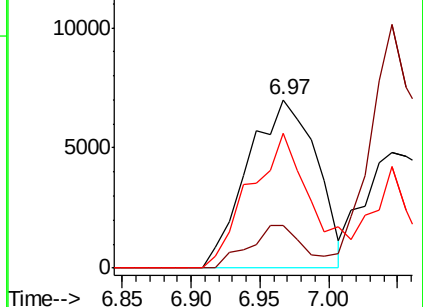
84 80.3 73.9 110.9

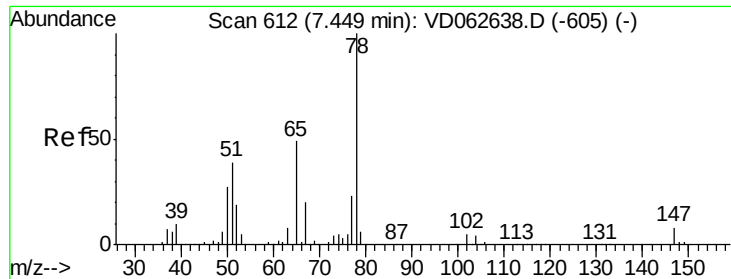


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC





#33

1,2-Dichloroethane-d4

Concen: 43.146 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.01 min

Lab File: VD062713.D

Acq: 14 Jun 2019 16:12

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MSVOA_D

ClientSampleId :

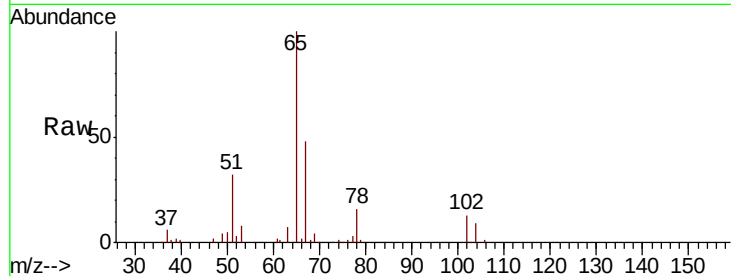
OILY-SOILRE

Tot Ion: 65 Resp: 314666

Ion Ratio Lower Upper

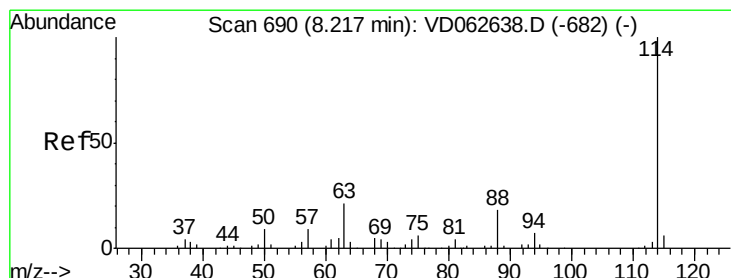
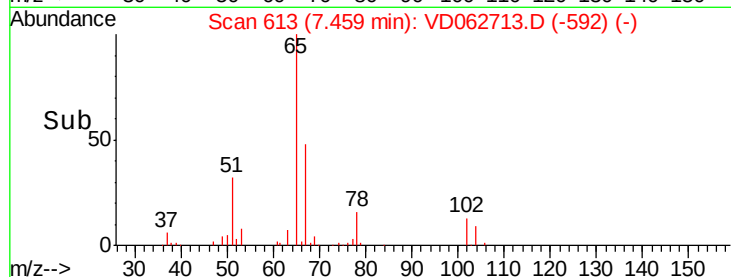
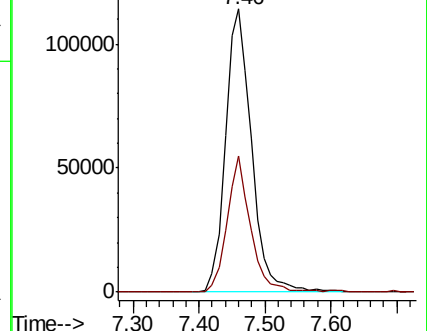
65 100

67 48.1 0.0 81.8



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. 0.01 min

Lab File: VD062713.D

Acq: 14 Jun 2019 16:12

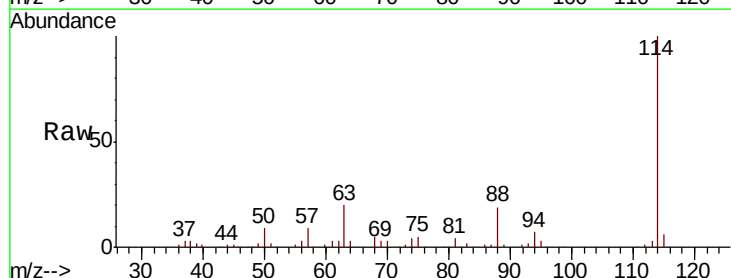
Tgt Ion: 114 Resp: 714538

Ion Ratio Lower Upper

114 100

63 20.1 0.0 42.4

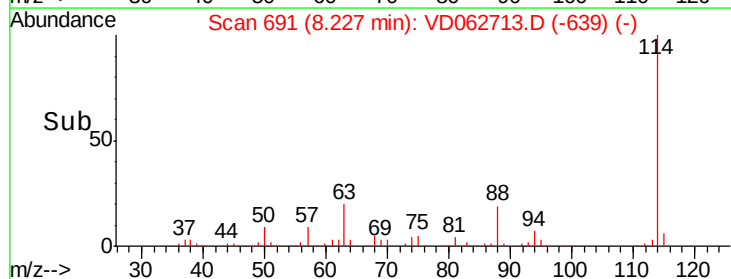
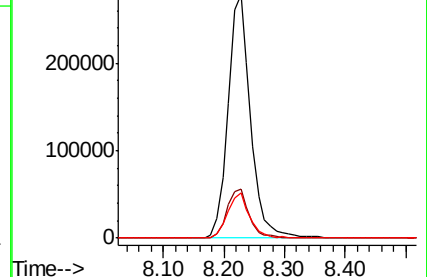
88 18.5 0.0 36.8

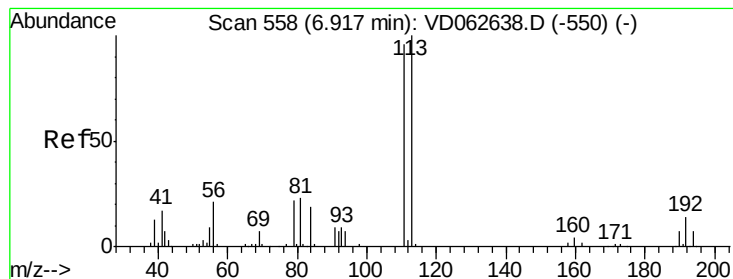


Abundance Ion 114.00 (113.70 to 114.70): VDC

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 39.059 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.01 min

Lab File: VD062713.D

Acq: 14 Jun 2019 16:12

Instrument :

MSVOA_D

ClientSampleId :

OILY-SOILRE

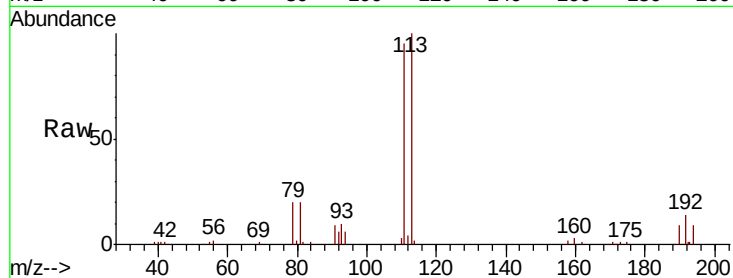
Tot Ion:113 Resp: 294336

Ion Ratio Lower Upper

113 100

111 94.8 76.4 114.6

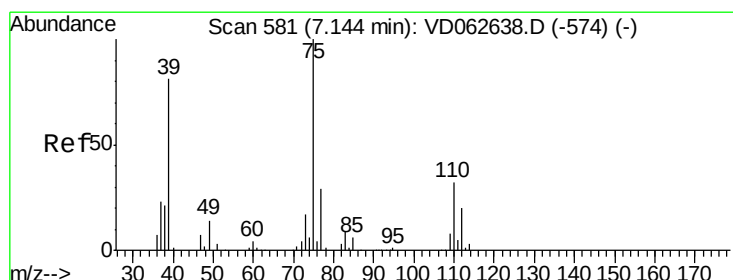
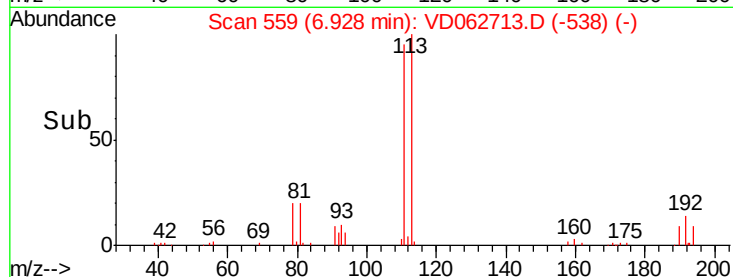
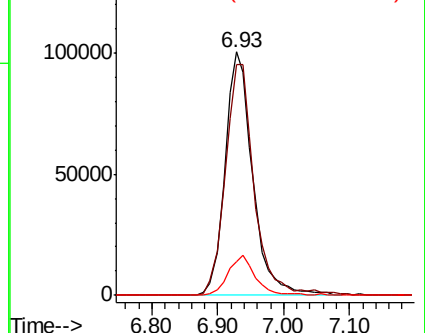
192 13.9 11.4 17.0



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 4.992 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.10 min

Lab File: VD062713.D

Acq: 14 Jun 2019 16:12

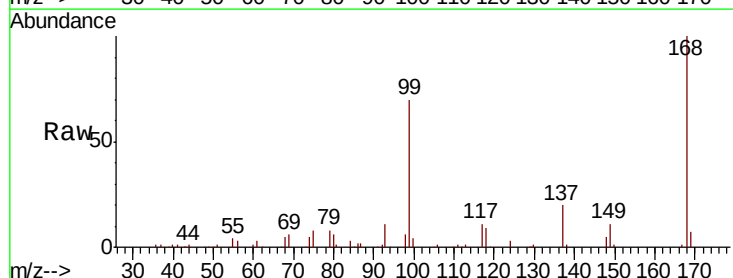
Tgt Ion: 75 Resp: 40822

Ion Ratio Lower Upper

75 100

110 3.8 15.9 47.7#

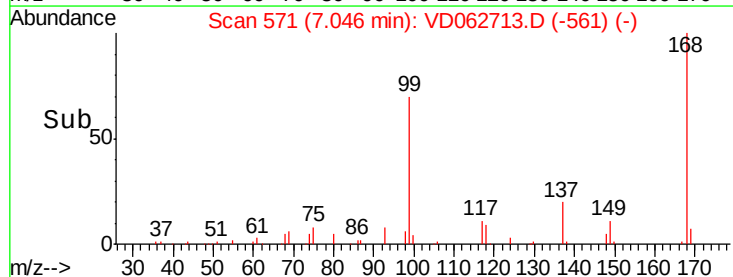
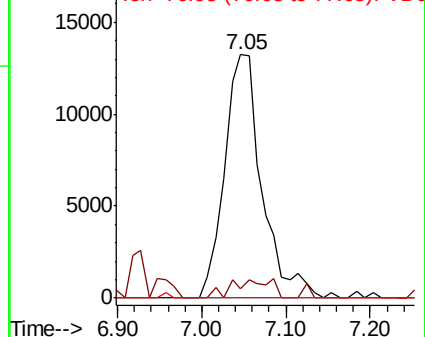
77 0.0 23.3 34.9#

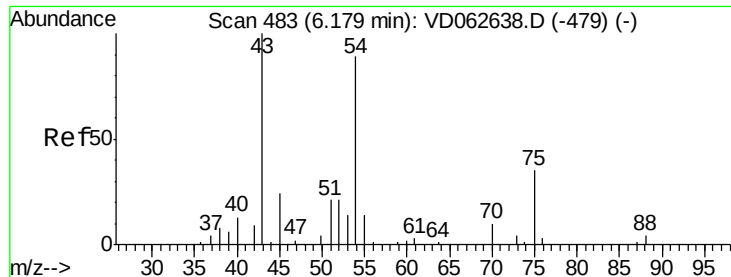


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

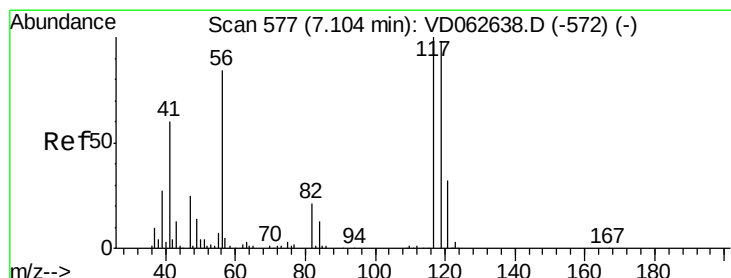
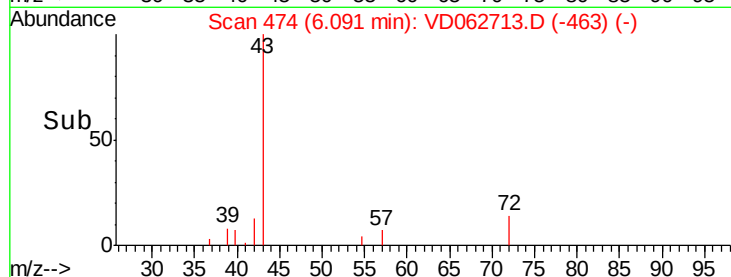
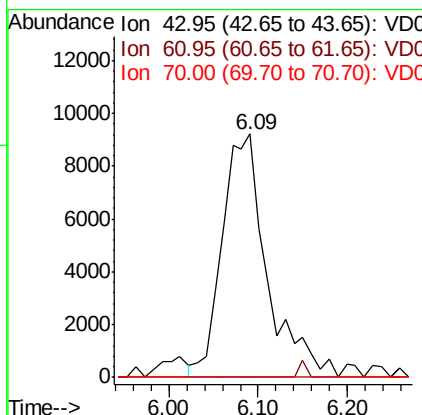
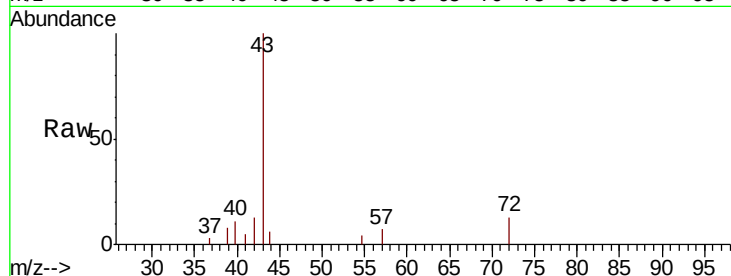




#37
Ethyl Acetate
Concen: 10.278 ug/l
RT: 6.09 min Scan# 474
Delta R.T. -0.09 min
Lab File: VD062713.D
Acq: 14 Jun 2019 16:12

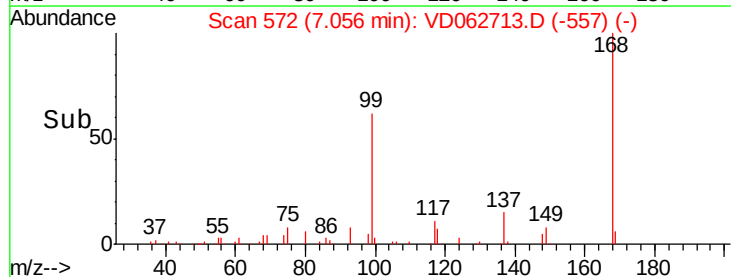
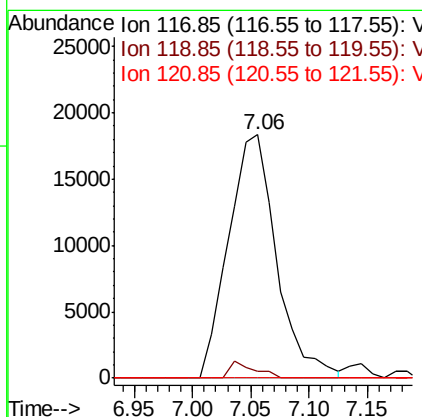
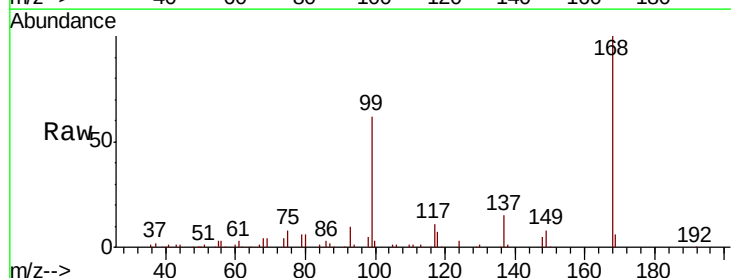
Instrument :
MSVOA_D
ClientSampleId :
OILY-SOILRE

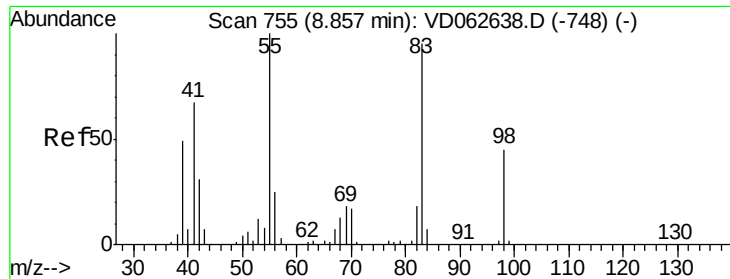
Tot Ion: 43 Resp: 32431
Ion Ratio Lower Upper
43 100
61 0.0 8.7 13.1#
70 0.0 6.5 9.7#



#38
Carbon Tetrachloride
Concen: 4.052 ug/l
RT: 7.06 min Scan# 572
Delta R.T. -0.05 min
Lab File: VD062713.D
Acq: 14 Jun 2019 16:12

Tgt Ion: 117 Resp: 52378
Ion Ratio Lower Upper
117 100
119 2.8 73.5 110.3#
121 0.0 24.2 36.4#

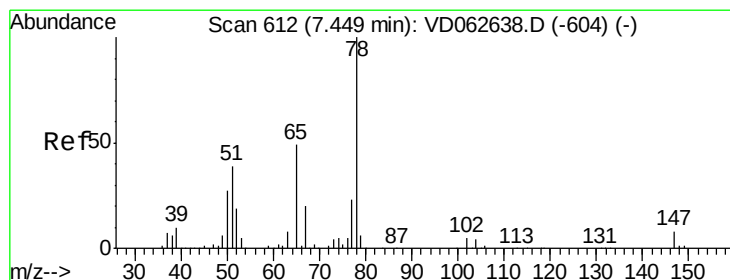
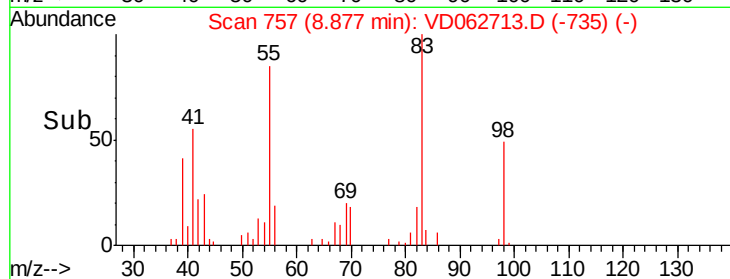
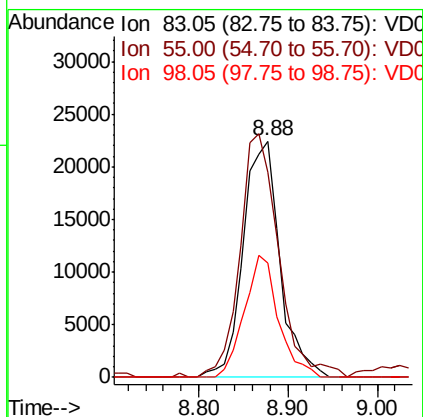
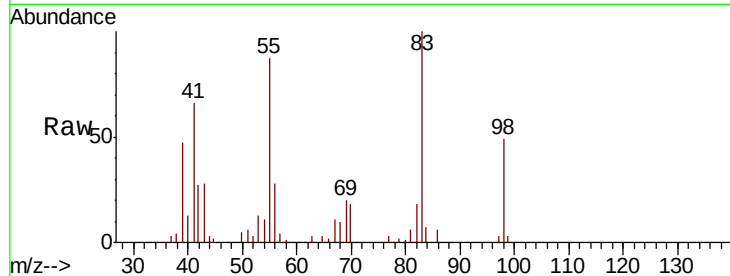




#39
Methylvlcyclohexane
Concen: 9.663 ug/l
RT: 8.88 min Scan# 757
Delta R.T. 0.02 min
Lab File: VD062713.D
Acq: 14 Jun 2019 16:12

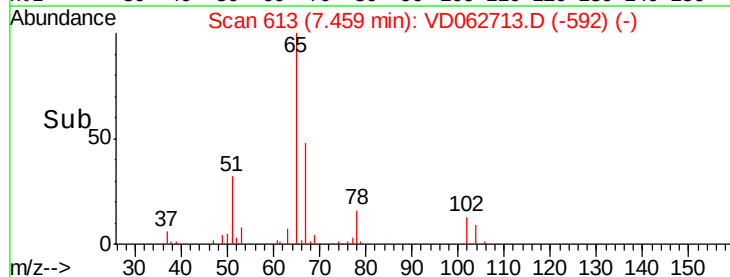
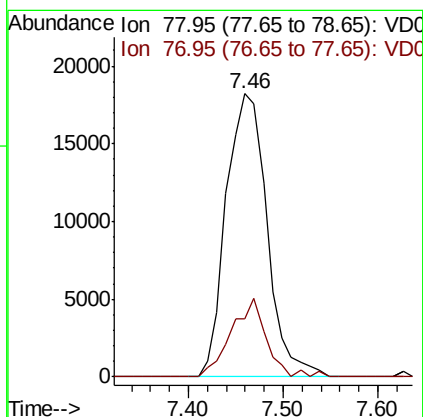
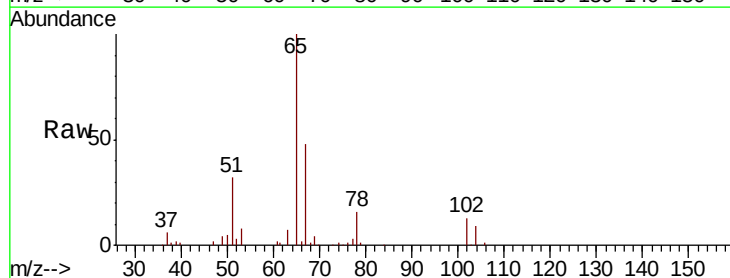
Instrument :
MSVOA_D
ClientSampleId :
OILY-SOILRE

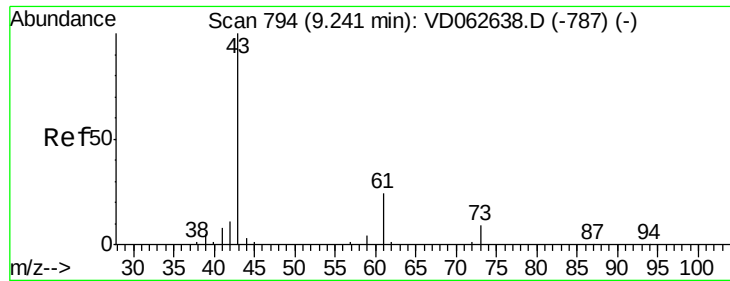
Tot Ion: 83 Resp: 63860
Ion Ratio Lower Upper
83 100
55 87.1 84.6 127.0
98 48.7 38.2 57.4



#40
Benzene
Concen: 3.413 ug/l
RT: 7.46 min Scan# 613
Delta R.T. 0.01 min
Lab File: VD062713.D
Acq: 14 Jun 2019 16:12

Tgt Ion: 78 Resp: 54503
Ion Ratio Lower Upper
78 100
77 20.4 18.6 28.0





#43

Isopropyl Acetate

Concen: 1.382 ug/l

RT: 9.27 min Scan# 797

Delta R.T. 0.03 min

Lab File: VD062713.D

Acq: 14 Jun 2019 16:12

Instrument :

MSVOA_D

ClientSampleId :

OILY-SOILRE

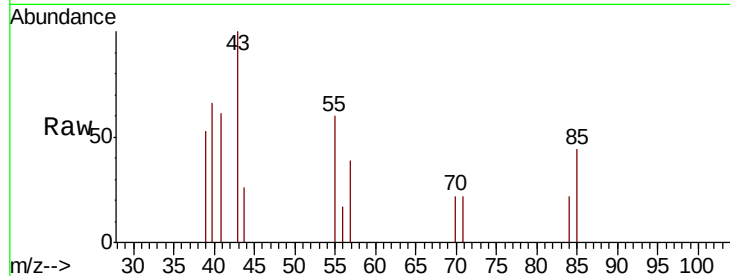
Tot Ion: 43 Resp: 5964

Ion Ratio Lower Upper

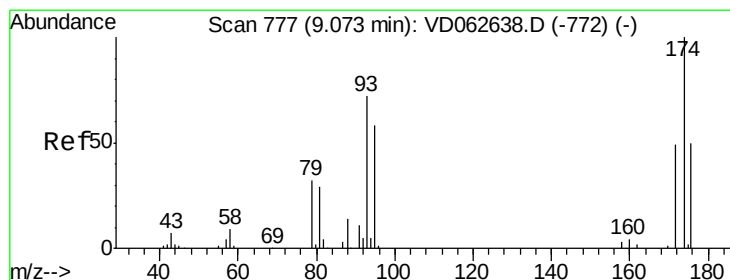
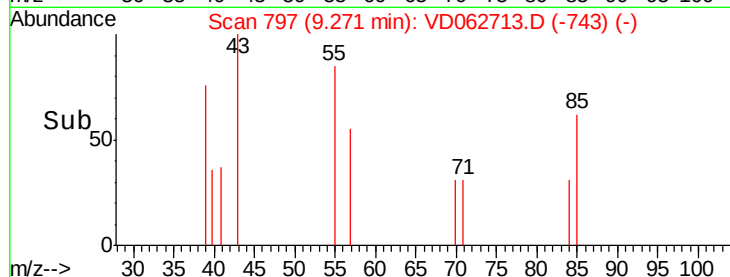
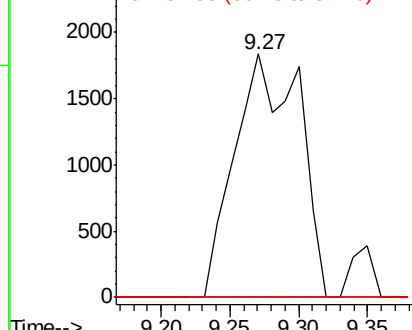
43 100

61 0.0 19.0 28.6#

87 0.0 0.3 0.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 87.00 (86.70 to 87.70): VDC



#49

1,4-Dioxane

Concen: 54.920 ug/l

RT: 9.22 min Scan# 792

Delta R.T. 0.15 min

Lab File: VD062713.D

Acq: 14 Jun 2019 16:12

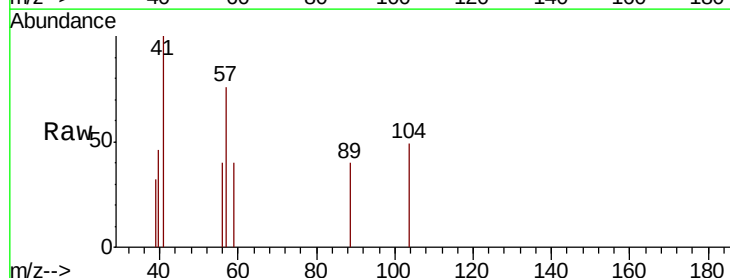
Tgt Ion: 88 Resp: 224

Ion Ratio Lower Upper

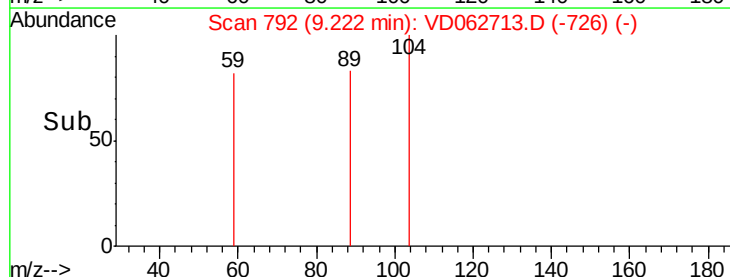
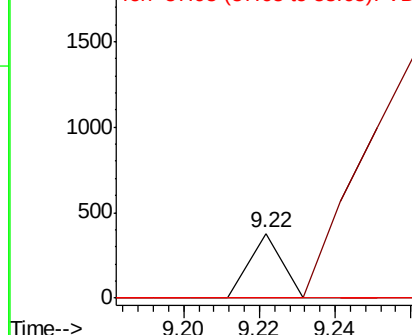
88 100

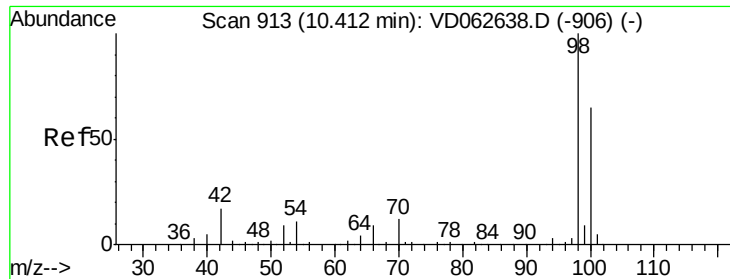
43 0.0 40.7 61.1#

58 0.0 54.2 81.4#



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

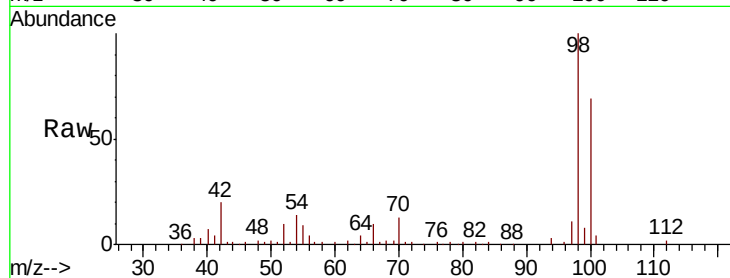




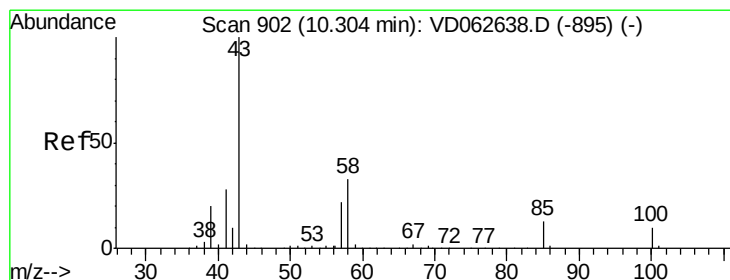
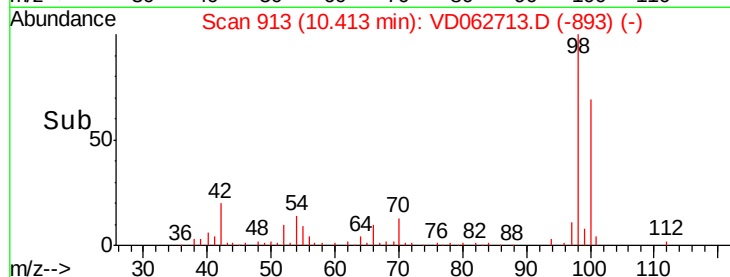
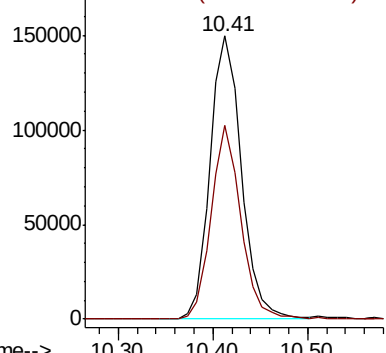
#50
Toluene-d8
Concen: 21.730 ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.00 min
Lab File: VD062713.D
Acq: 14 Jun 2019 16:12

Instrument :
MSVOA_D
ClientSampleId :
OILY-SOILRE

Tot Ion: 98 Resp: 344483
Ion Ratio Lower Upper
98 100
100 68.5 52.1 78.1

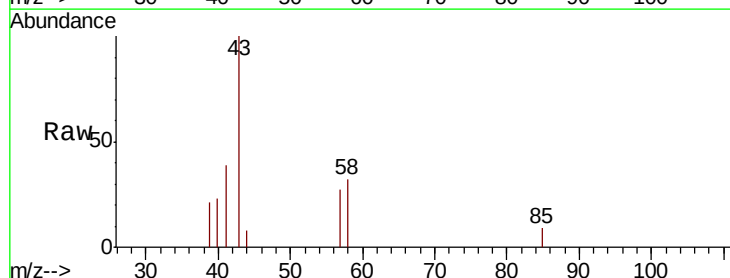


Abundance Ion 98.05 (97.75 to 98.75): VD062713.D (-893) (-)
Ion 100.05 (99.75 to 100.75): VD062713.D (-893) (-)

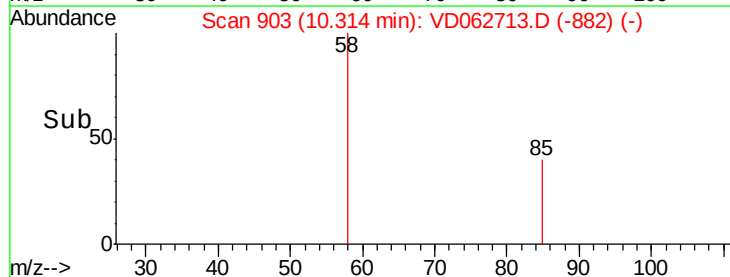
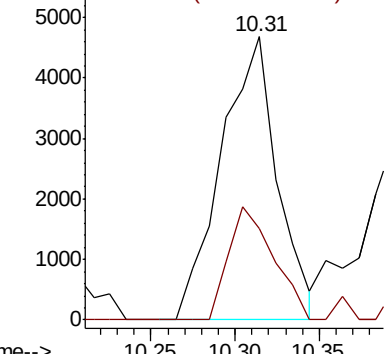


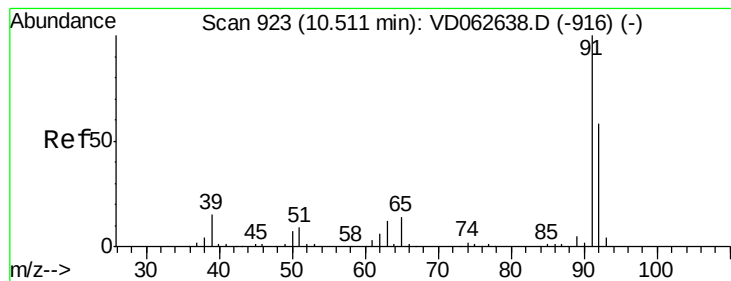
#51
4-Methyl-2-Pentanone
Concen: 3.584 ug/l
RT: 10.31 min Scan# 903
Delta R.T. 0.01 min
Lab File: VD062713.D
Acq: 14 Jun 2019 16:12

Tgt Ion: 43 Resp: 10820
Ion Ratio Lower Upper
43 100
58 32.3 26.1 39.1



Abundance Ion 42.95 (42.65 to 43.65): VD062713.D (-882) (-)
Ion 57.95 (57.65 to 58.65): VD062713.D (-882) (-)





#52

Toluene

Concen: 4.999 ug/l

RT: 10.51 min Scan# 923

Delta R.T. 0.00 min

Lab File: VD062713.D

Acq: 14 Jun 2019 16:12

Instrument :

MSVOA_D

ClientSampleId :

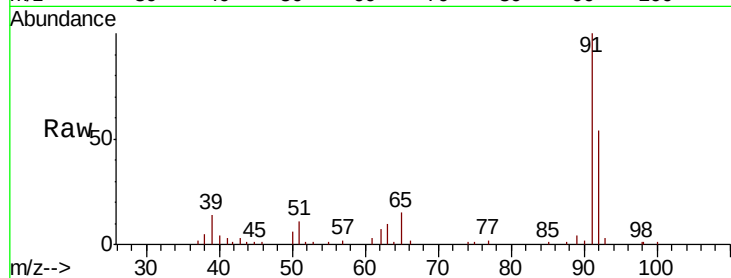
OILY-SOILRE

Tot Ion: 92 Resp: 53660

Ion Ratio Lower Upper

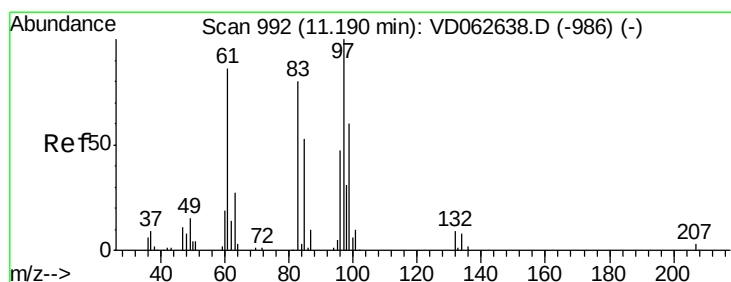
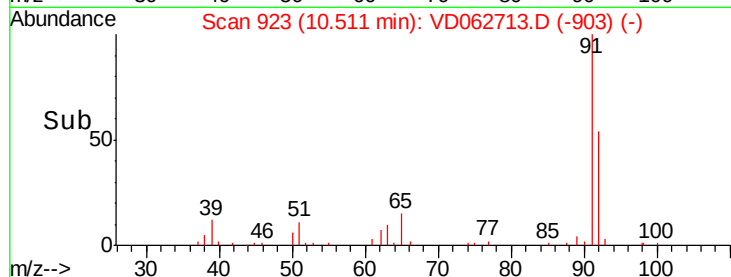
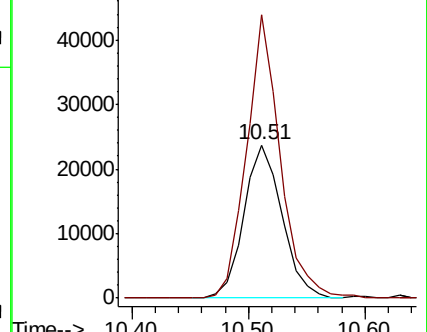
92 100

91 185.2 137.0 205.6



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#55

1,1,2-Trichloroethane

Concen: 6.250 ug/l

RT: 11.10 min Scan# 983

Delta R.T. -0.09 min

Lab File: VD062713.D

Acq: 14 Jun 2019 16:12

Tgt Ion: 97 Resp: 23009

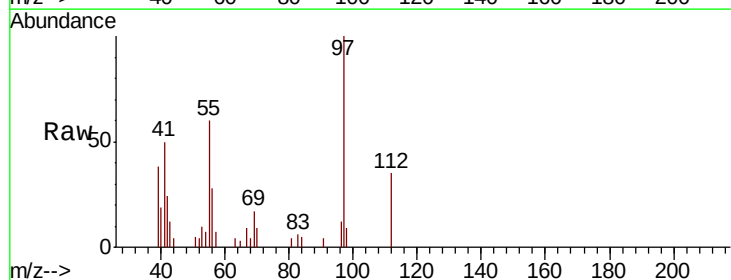
Ion Ratio Lower Upper

97 100

83 6.5 63.8 95.8#

85 0.0 42.3 63.5#

99 0.0 48.0 72.0#

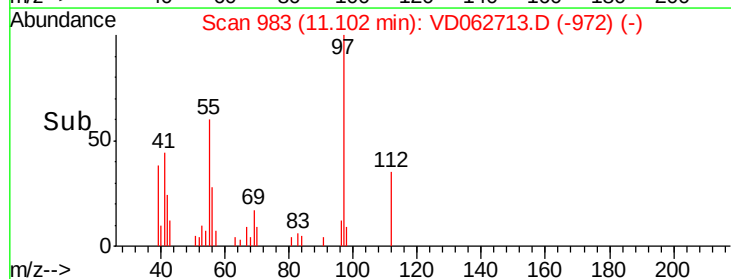
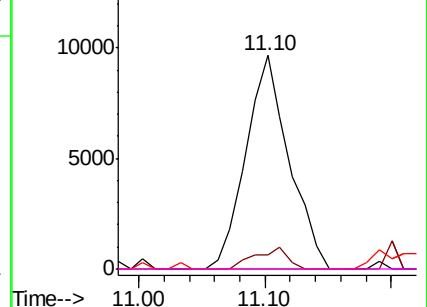


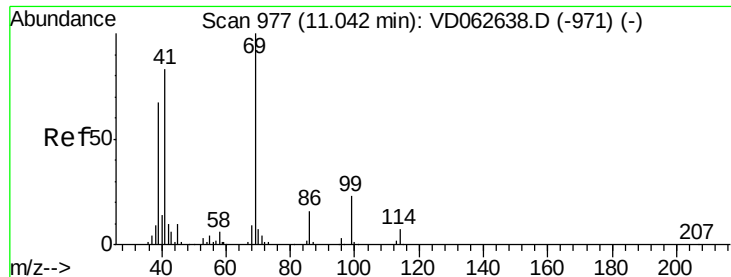
Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC





#56

Ethyl methacrylate

Concen: 4.981 ug/l

RT: 11.09 min Scan# 982

Delta R.T. 0.05 min

Lab File: VD062713.D

Acq: 14 Jun 2019 16:12

Instrument :

MSVOA_D

ClientSampleId :

OILY-SOILRE

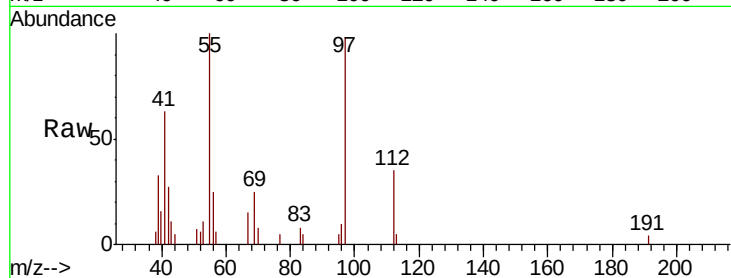
Tot Ion: 69 Resp: 5017

Ion Ratio Lower Upper

69 100

41 249.2 66.2 99.4#

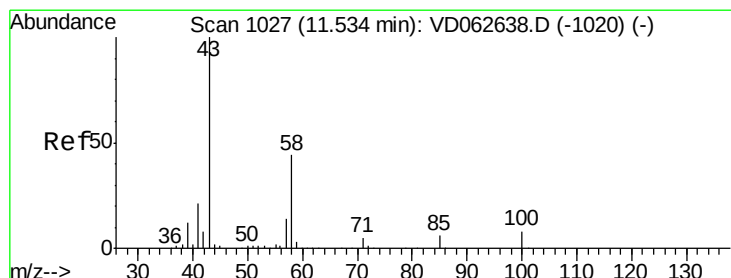
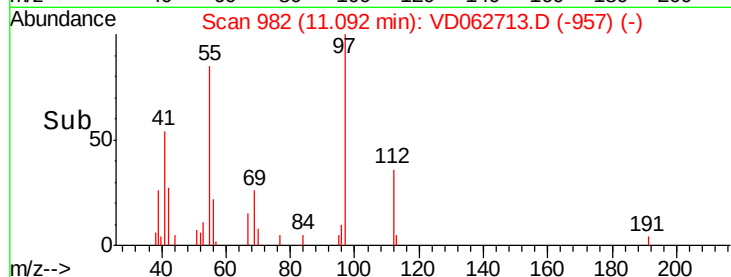
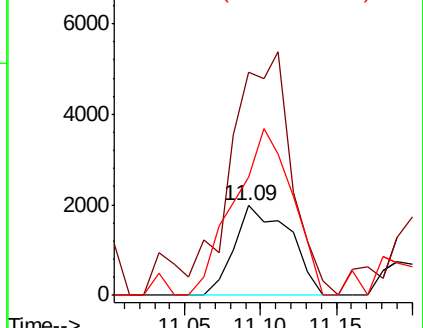
39 131.9 53.8 80.8#



Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC



#59

2-Hexanone

Concen: 13.592 ug/l

RT: 11.50 min Scan# 1023

Delta R.T. -0.04 min

Lab File: VD062713.D

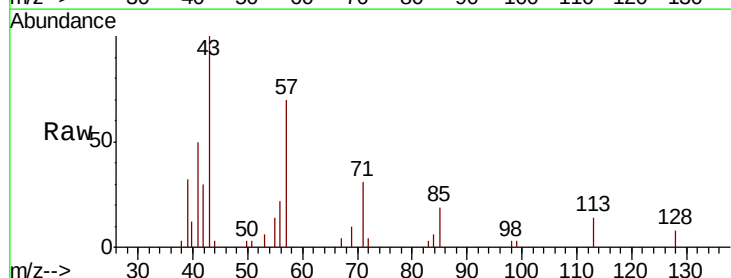
Acq: 14 Jun 2019 16:12

Tgt Ion: 43 Resp: 30526

Ion Ratio Lower Upper

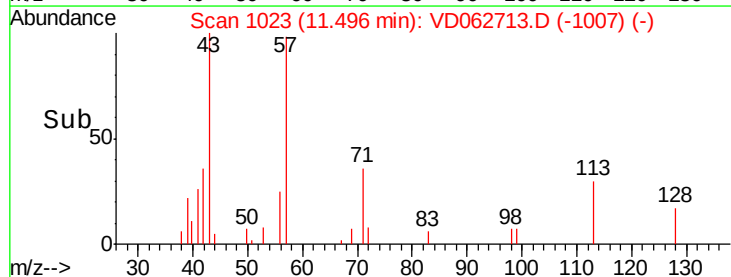
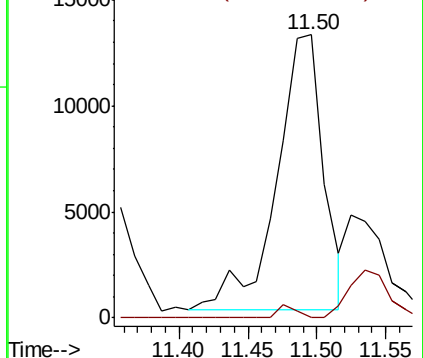
43 100

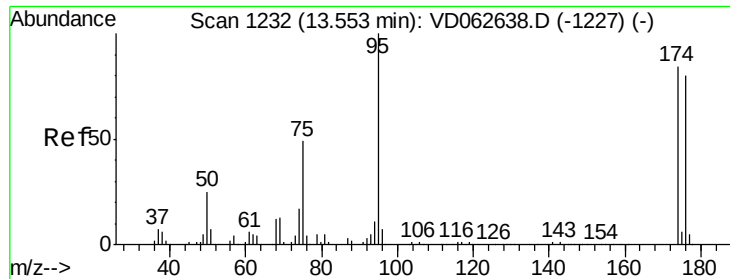
58 0.0 21.8 65.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#62

4-Bromofluorobenzene

Concen: 17.238 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD062713.D

Acq: 14 Jun 2019 16:12

Instrument :

MSVOA_D

ClientSampleId :

OILY-SOILRE

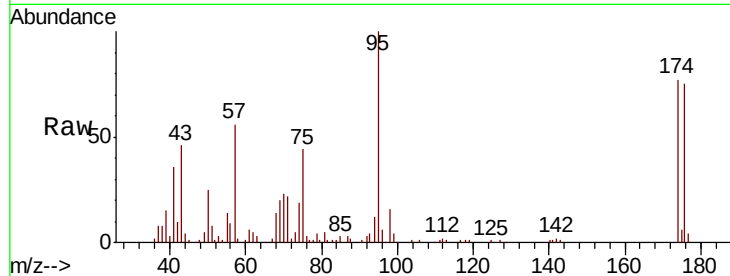
Tot Ion: 95 Resp: 127489

Ion Ratio Lower Upper

95 100

174 76.8 0.0 167.0

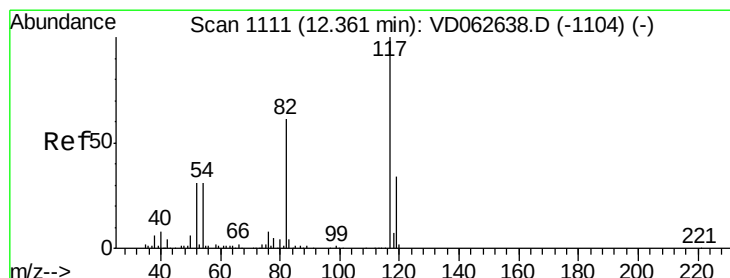
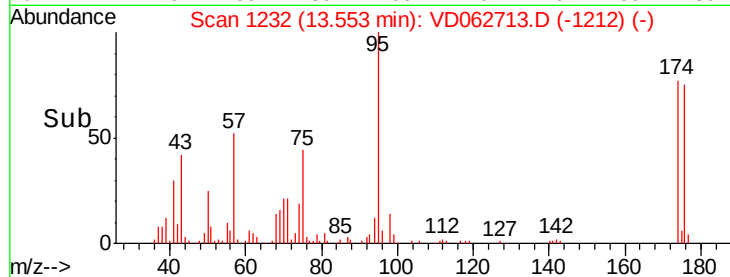
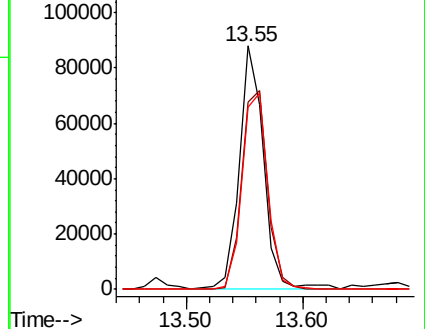
176 74.8 0.0 159.2



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.37 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VD062713.D

Acq: 14 Jun 2019 16:12

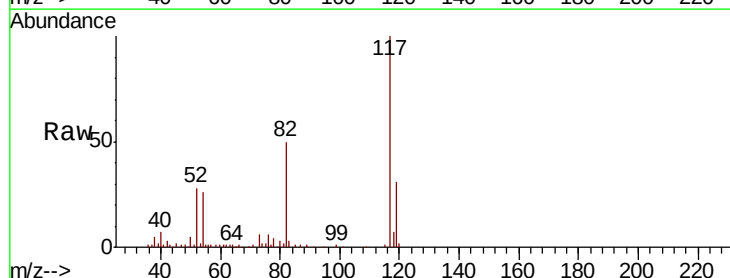
Tgt Ion: 117 Resp: 414693

Ion Ratio Lower Upper

117 100

82 50.1 48.7 73.1

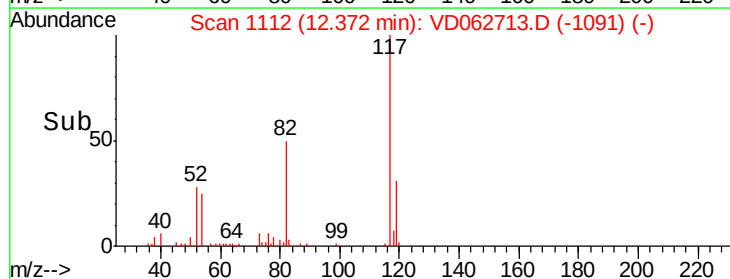
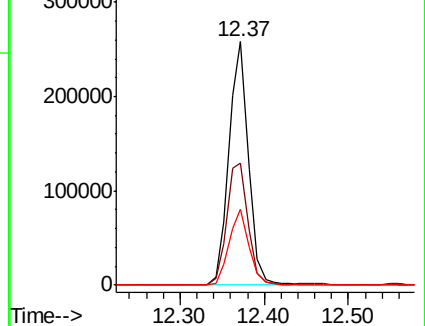
119 31.4 27.0 40.6

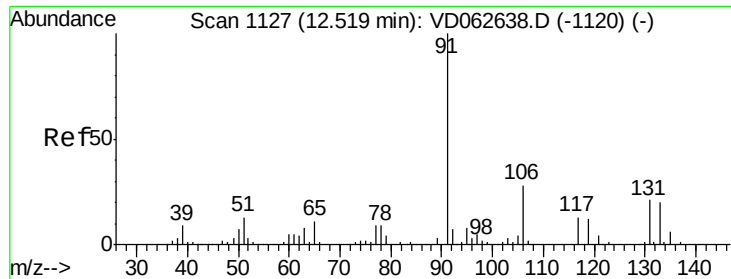


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

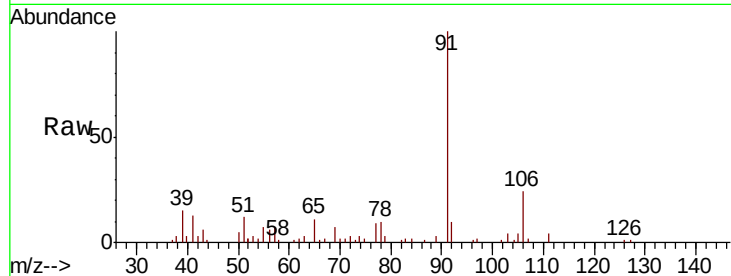




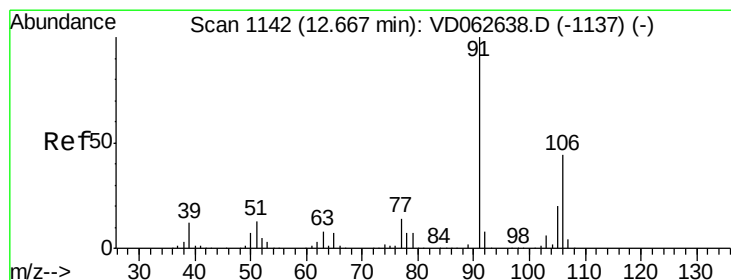
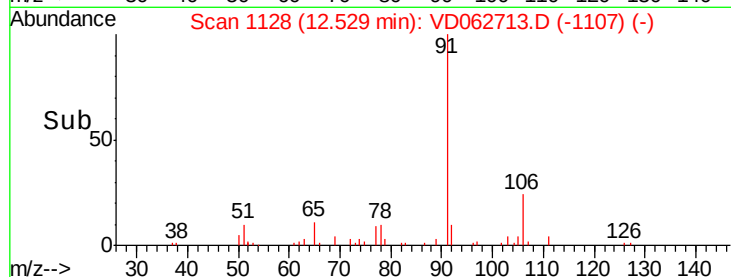
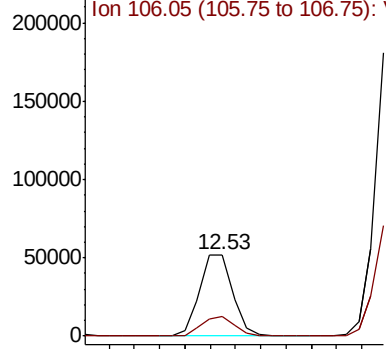
#67
Ethyl Benzene
Concen: 5.822 ug/l
RT: 12.53 min Scan# 1128
Delta R.T. 0.01 min
Lab File: VD062713.D
Acq: 14 Jun 2019 16:12

Instrument :
MSVOA_D
ClientSampleId :
OILY-SOILRE

Tot Ion: 91 Resp: 94691
Ion Ratio Lower Upper
91 100
106 23.7 22.1 33.1

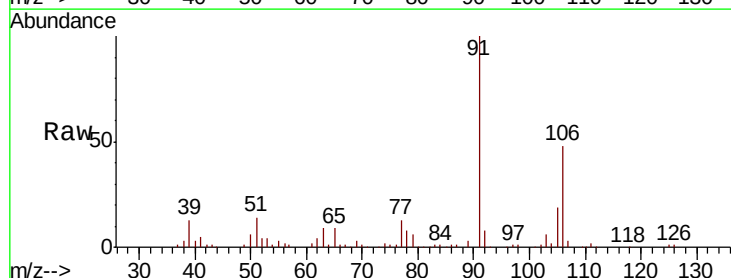


Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 106.05 (105.75 to 106.75): V

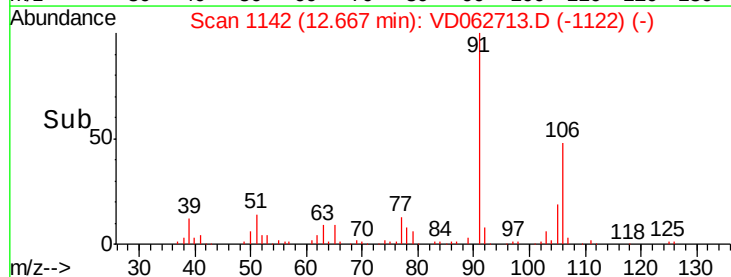
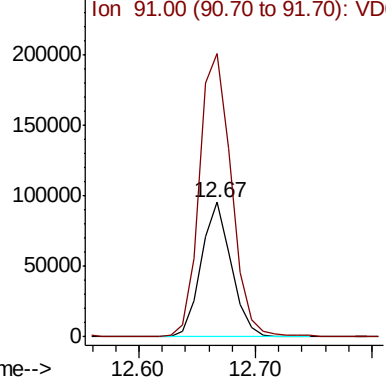


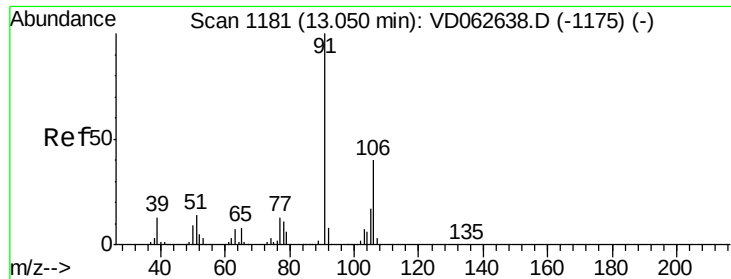
#68
m/p-Xylenes
Concen: 29.871 ug/l
RT: 12.67 min Scan# 1142
Delta R.T. 0.00 min
Lab File: VD062713.D
Acq: 14 Jun 2019 16:12

Tgt Ion: 106 Resp: 170788
Ion Ratio Lower Upper
106 100
91 210.0 180.2 270.4



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

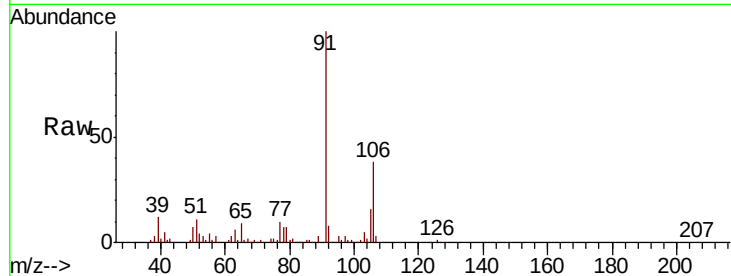




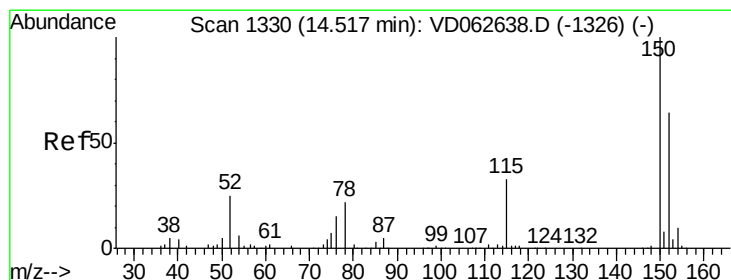
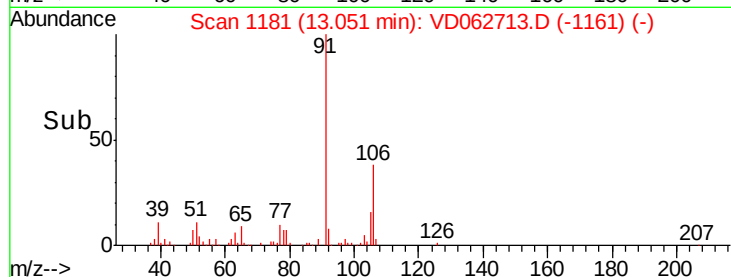
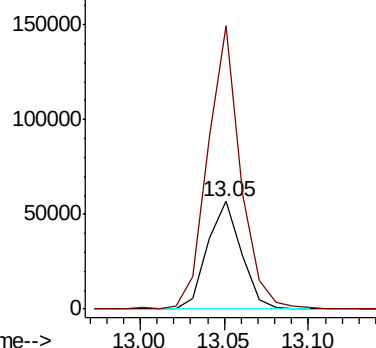
#69
o-Xylene
Concen: 15.114 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VD062713.D
Acq: 14 Jun 2019 16:12

Instrument :
MSVOA_D
ClientSampleId :
OILY-SOILRE

Tot Ion:106 Resp: 79364
Ion Ratio Lower Upper
106 100
91 262.4 124.1 372.1

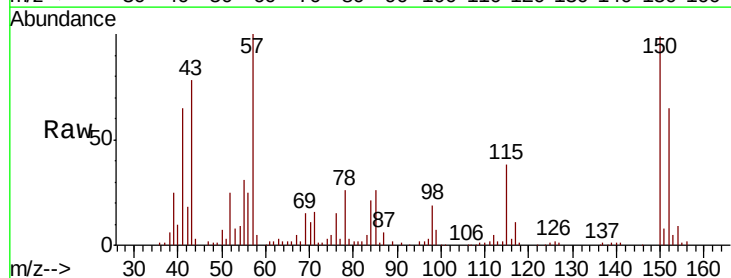


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

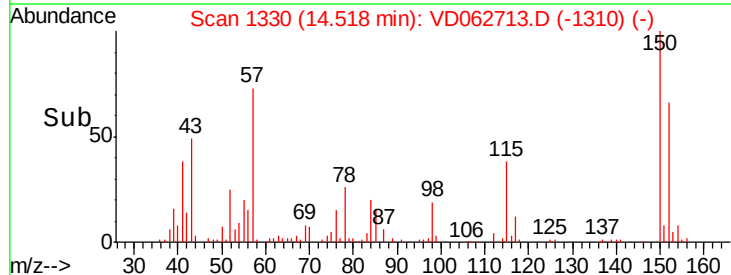
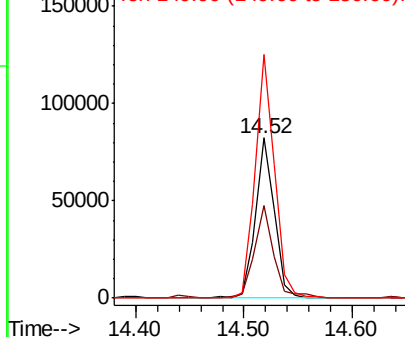


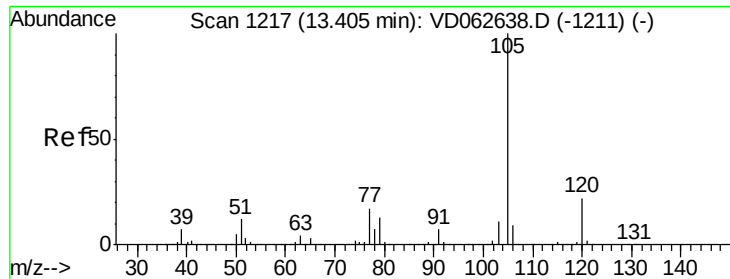
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD062713.D
Acq: 14 Jun 2019 16:12

Tgt Ion:152 Resp: 100078
Ion Ratio Lower Upper
152 100
115 57.9 30.1 90.5
150 152.1 0.0 314.0



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





#73

Isopropylbenzene

Concen: 1.283 ug/l

RT: 13.41 min Scan# 1217

Delta R.T. 0.00 min

Lab File: VD062713.D

Acq: 14 Jun 2019 16:12

Instrument :

MSVOA_D

ClientSampleId :

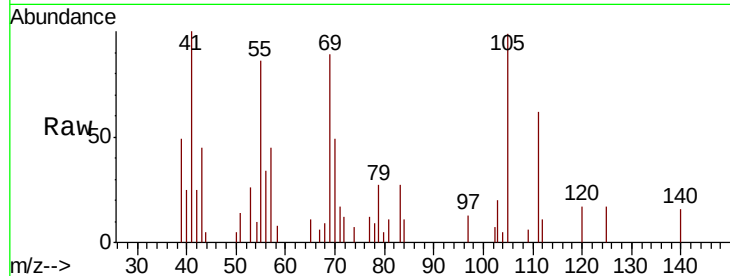
OILY-SOILRE

Tot Ion:105 Resp: 9047

Ion Ratio Lower Upper

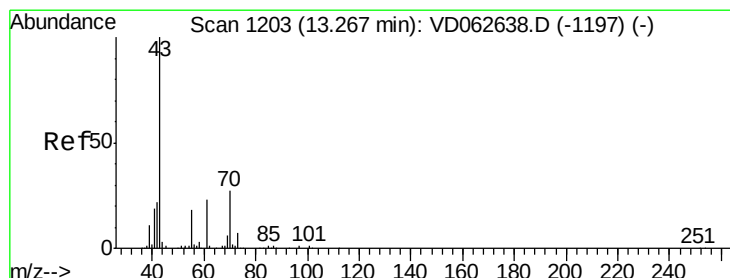
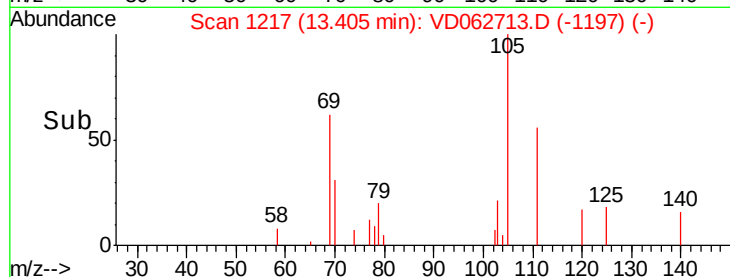
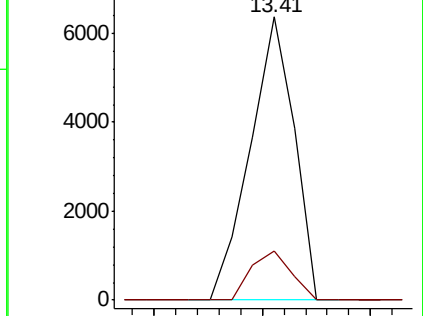
105 100

120 17.4 10.9 32.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 19.188 ug/l

RT: 13.22 min Scan# 1198

Delta R.T. -0.05 min

Lab File: VD062713.D

Acq: 14 Jun 2019 16:12

Tgt Ion: 43 Resp: 36579

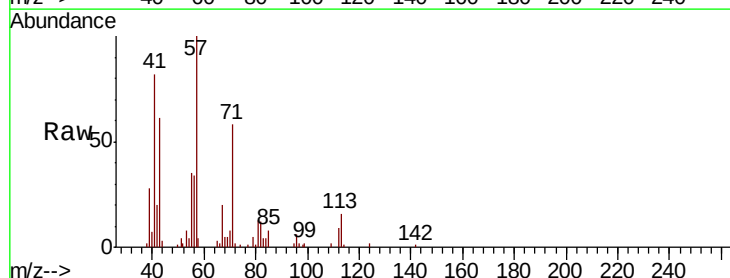
Ion Ratio Lower Upper

43 100

70 12.5 21.8 32.8#

55 56.7 14.6 21.8#

61 0.0 18.4 27.6#

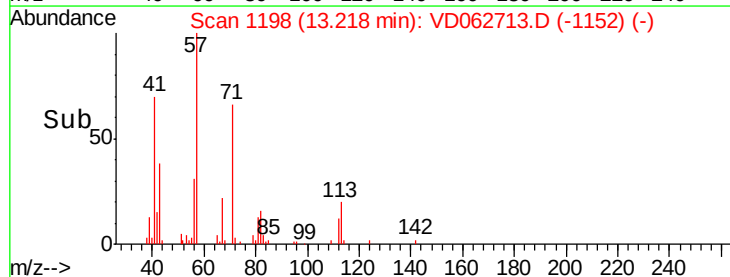
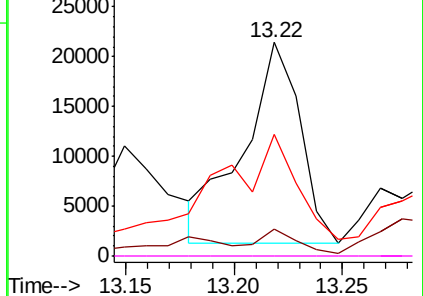


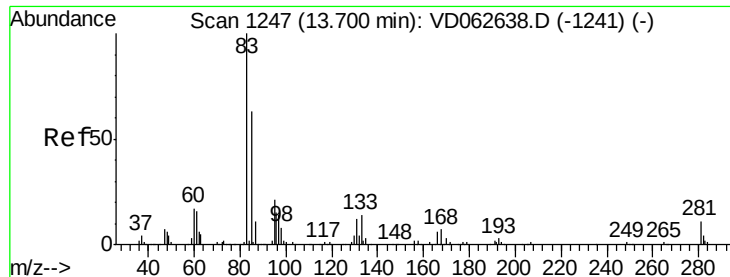
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 5.193 ug/l

RT: 13.71 min Scan# 1248

Delta R.T. 0.01 min

Lab File: VD062713.D

Acq: 14 Jun 2019 16:12

Instrument :

MSVOA_D

ClientSampleId :

OILY-SOILRE

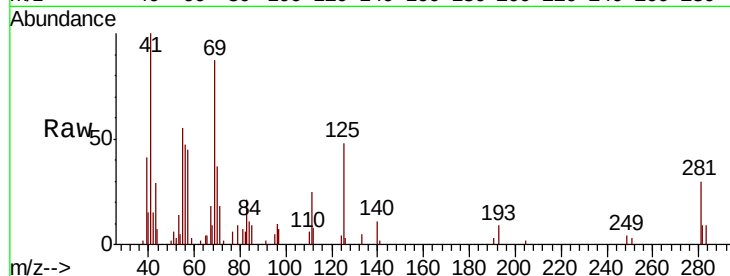
Tot Ion: 83 Resp: 6268

Ion Ratio Lower Upper

83 100

131 0.0 5.9 17.7#

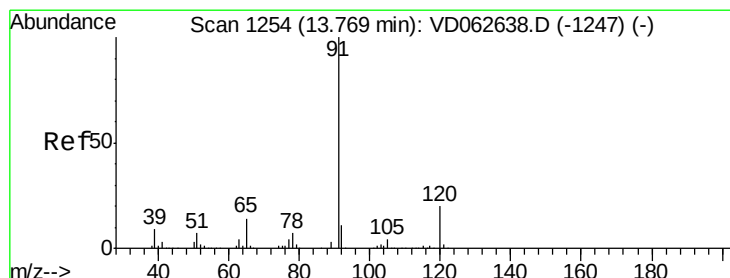
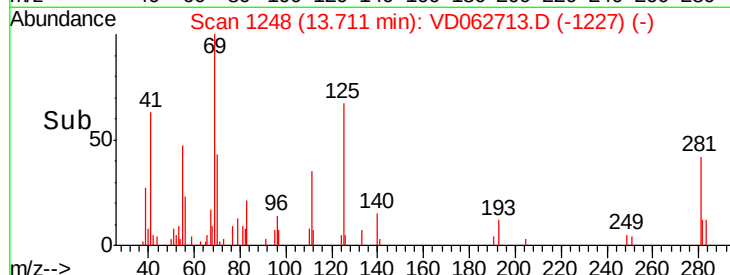
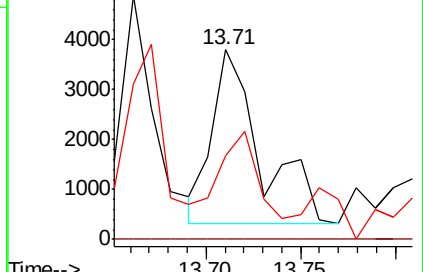
85 44.3 31.3 93.9



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#78

n-propylbenzene

Concen: 2.603 ug/l

RT: 13.77 min Scan# 1254

Delta R.T. 0.00 min

Lab File: VD062713.D

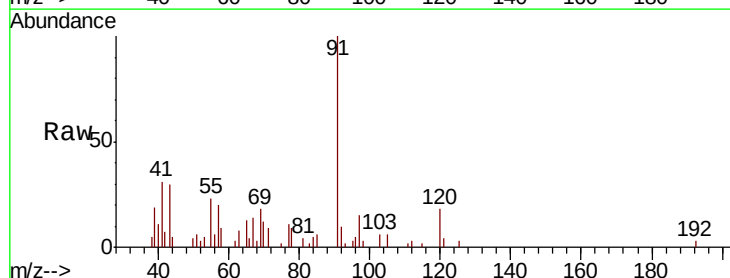
Acq: 14 Jun 2019 16:12

Tgt Ion: 91 Resp: 22473

Ion Ratio Lower Upper

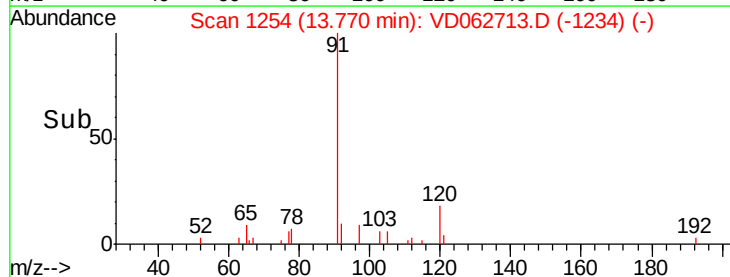
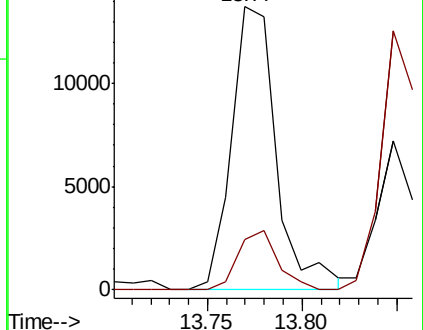
91 100

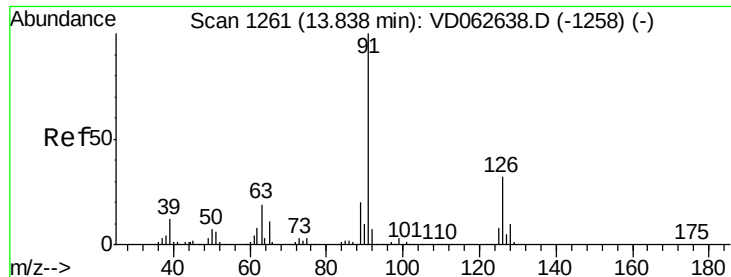
120 17.8 9.8 29.5



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): VDC





#79

2-Chlorotoluene

Concen: 2.666 ug/l

RT: 13.85 min Scan# 1262

Delta R.T. 0.01 min

Lab File: VD062713.D

Acq: 14 Jun 2019 16:12

Instrument :

MSVOA_D

ClientSampleId :

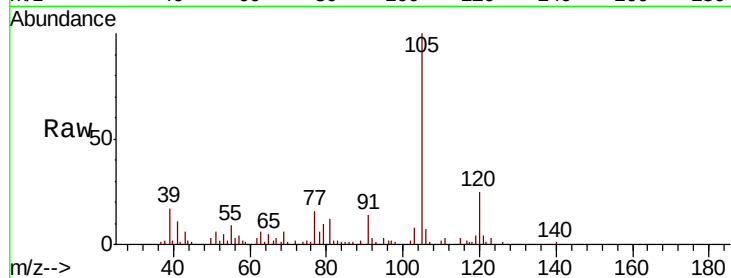
OILY-SOILRE

Tot Ion: 91 Resp: 13477

Ion Ratio Lower Upper

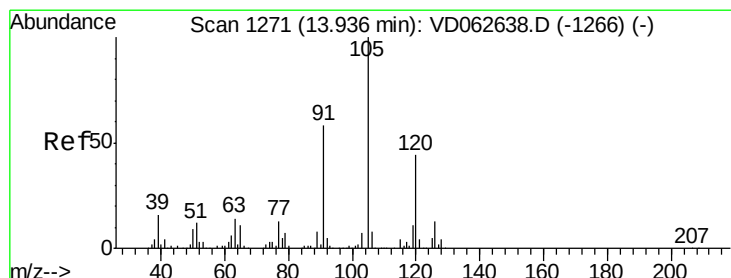
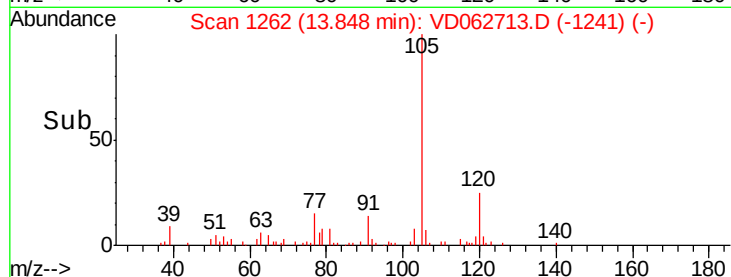
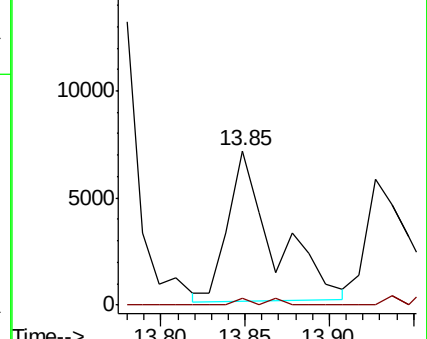
91 100

126 4.8 15.8 47.4#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#80

1,3,5-Trimethylbenzene

Concen: 9.124 ug/l

RT: 13.94 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VD062713.D

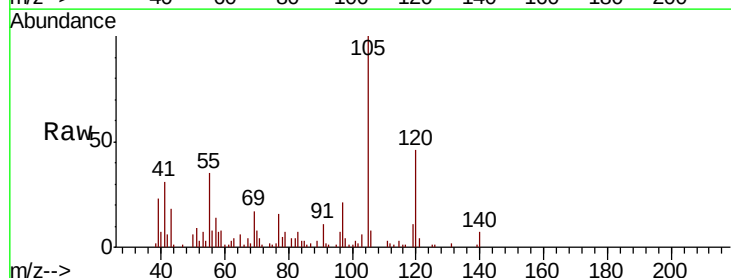
Acq: 14 Jun 2019 16:12

Tgt Ion: 105 Resp: 56882

Ion Ratio Lower Upper

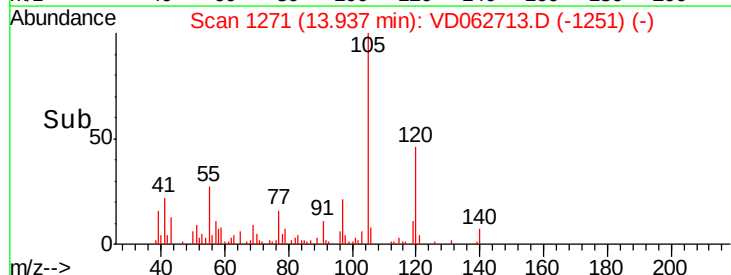
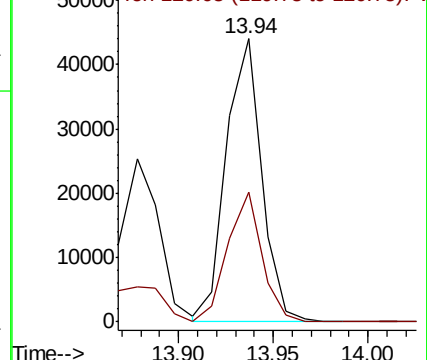
105 100

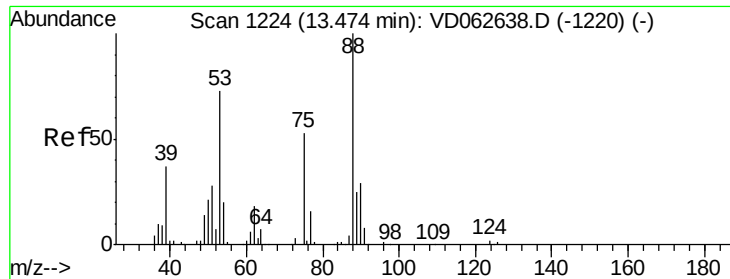
120 45.8 22.1 66.5



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#81

trans-1,4-Dichloro-2-butene

Concen: 128.014 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD062713.D

Acq: 14 Jun 2019 16:12

Instrument :

MSVOA_D

ClientSampleId :

OILY-SOILRE

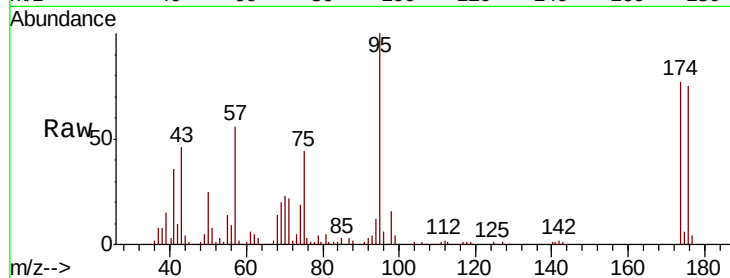
Tot Ion: 75 Resp: 54167

Ion Ratio Lower Upper

75 100

53 7.0 109.4 164.2#

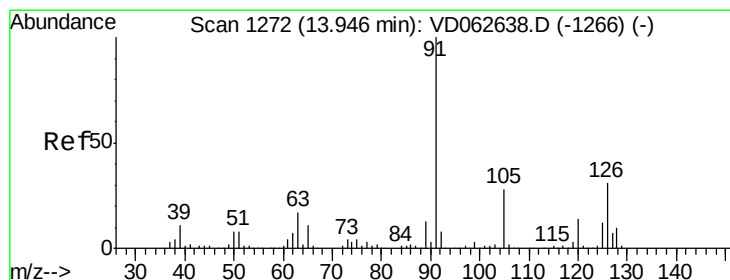
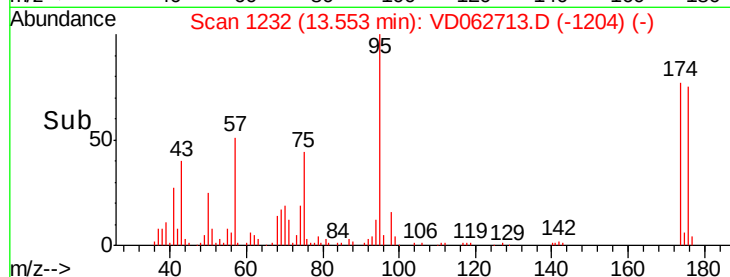
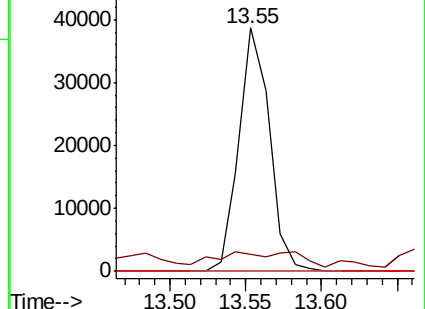
89 0.0 37.0 55.6#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



#82

4-Chlorotoluene

Concen: 1.861 ug/l

RT: 13.93 min Scan# 1270

Delta R.T. -0.02 min

Lab File: VD062713.D

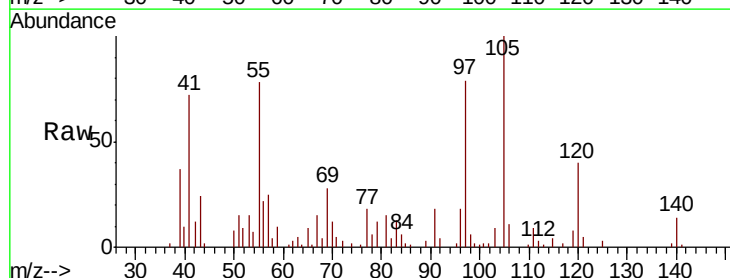
Acq: 14 Jun 2019 16:12

Tgt Ion: 91 Resp: 11252

Ion Ratio Lower Upper

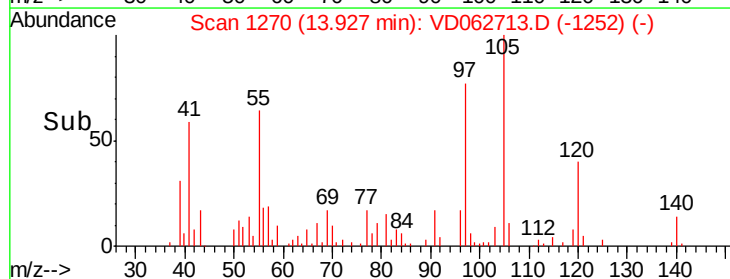
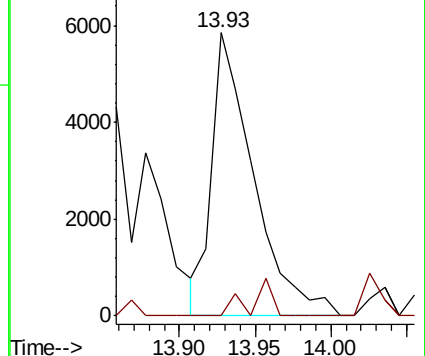
91 100

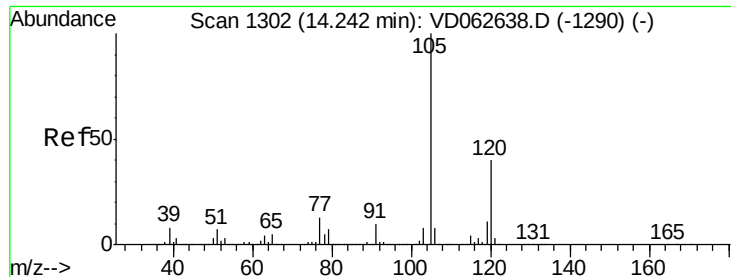
126 0.0 15.6 46.8#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V





#84

1,2,4-Trimethylbenzene

Concen: 19.941 ug/l

RT: 14.24 min Scan# 1302

Delta R.T. 0.00 min

Lab File: VD062713.D

Acq: 14 Jun 2019 16:12

Instrument :

MSVOA_D

ClientSampleId :

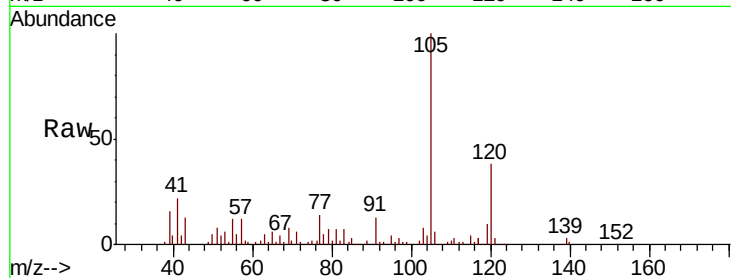
OILY-SOILRE

Tot Ion:105 Resp: 123087

Ion Ratio Lower Upper

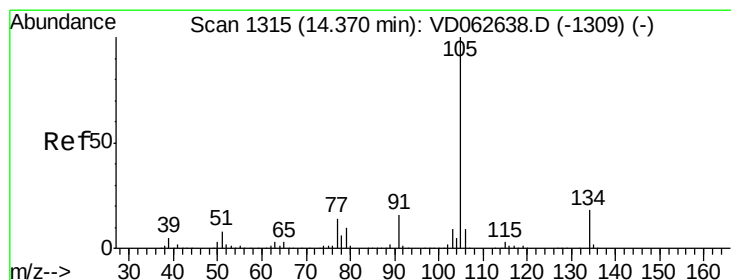
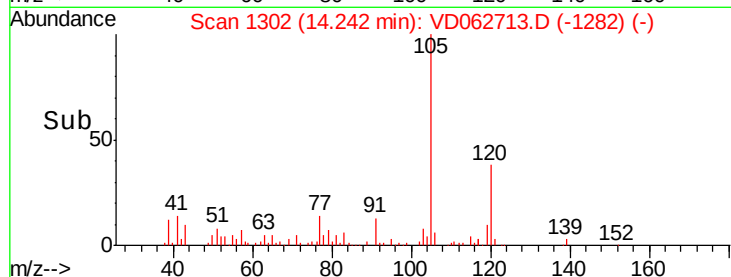
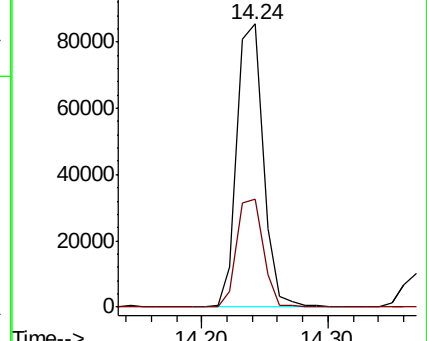
105 100

120 38.2 20.3 60.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#85

sec-Butylbenzene

Concen: 1.728 ug/l

RT: 14.37 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VD062713.D

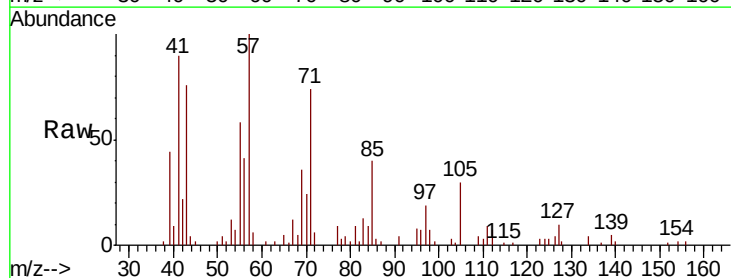
Acq: 14 Jun 2019 16:12

Tgt Ion:105 Resp: 12460

Ion Ratio Lower Upper

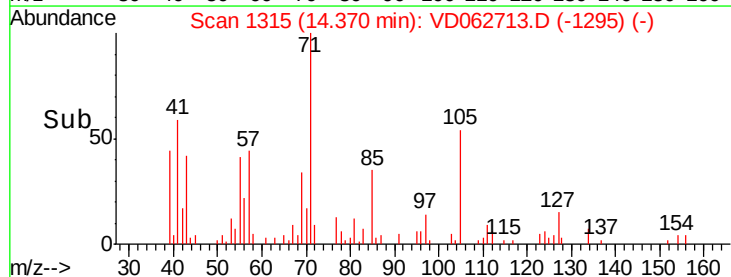
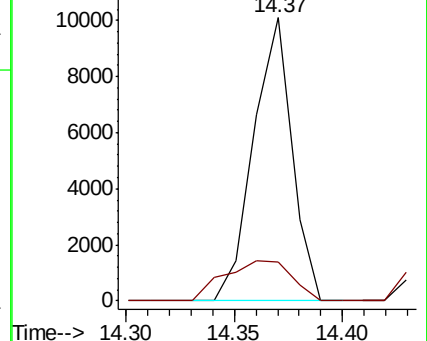
105 100

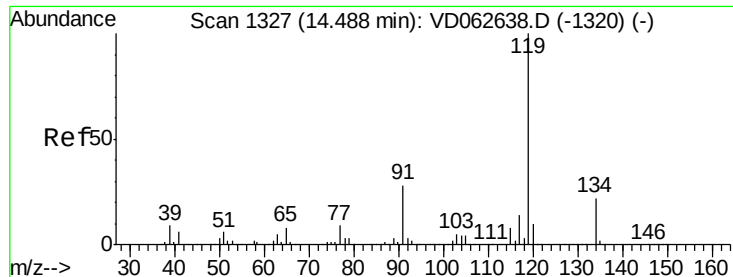
134 13.5 8.8 26.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V

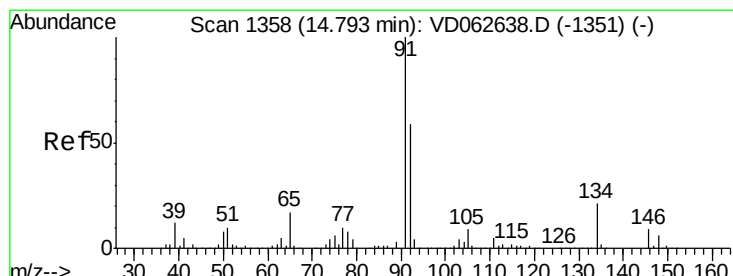
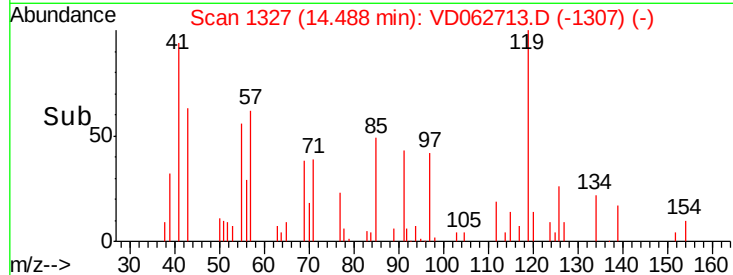
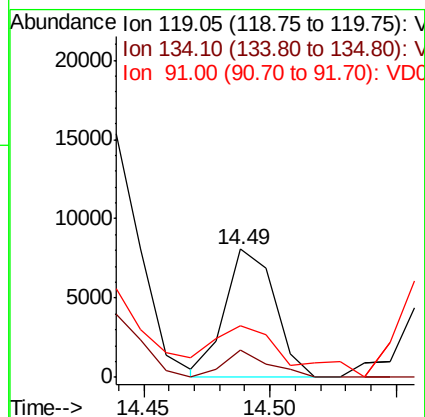
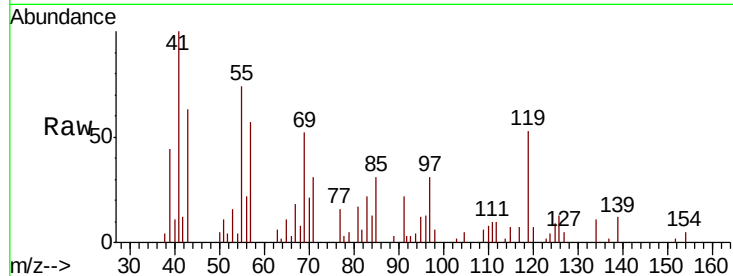




#86
 p-Isopropyltoluene
 Concen: 1.573 ug/l
 RT: 14.49 min Scan# 1327
 Delta R.T. 0.00 min
 Lab File: VD062713.D
 Acq: 14 Jun 2019 16:12

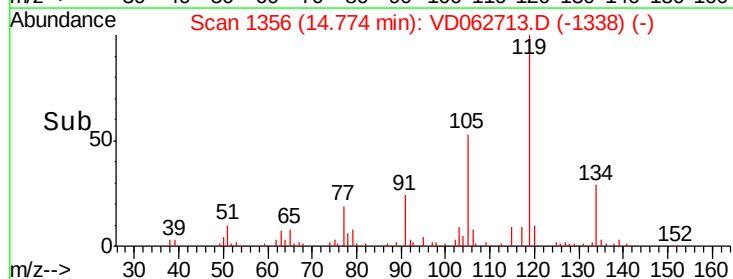
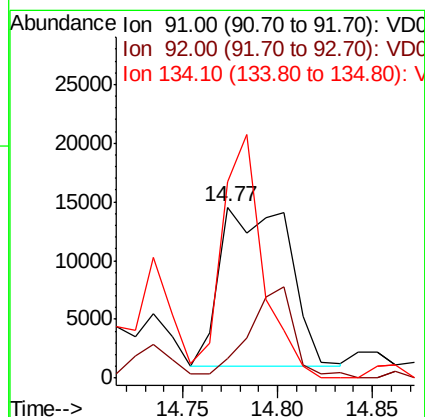
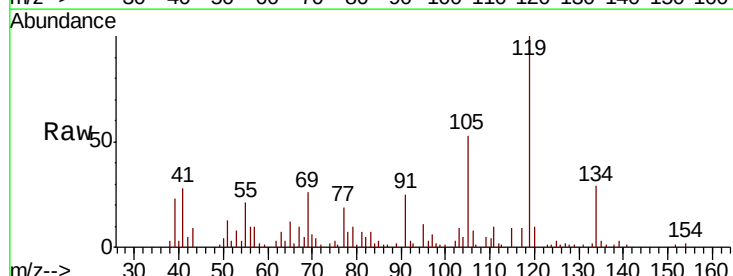
Instrument :
 MSVOA_D
 ClientSampleId :
 OILY-SOILRE

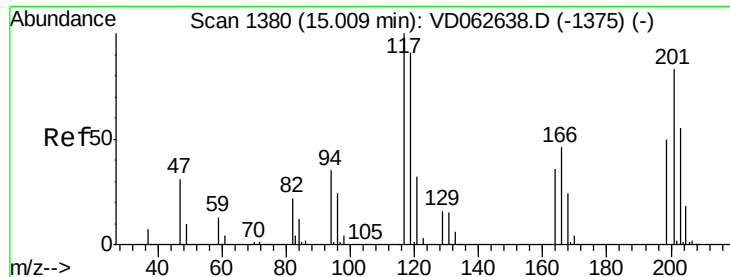
Tot Ion:119 Resp: 11044
 Ion Ratio Lower Upper
 119 100
 134 21.2 10.9 32.6
 91 40.7 13.9 41.6



#89
 n-Butylbenzene
 Concen: 5.461 ug/l
 RT: 14.77 min Scan# 1356
 Delta R.T. -0.02 min
 Lab File: VD062713.D
 Acq: 14 Jun 2019 16:12

Tgt Ion: 91 Resp: 34490
 Ion Ratio Lower Upper
 91 100
 92 11.8 29.4 88.3#
 134 114.6 10.4 31.2#





#90

Hexachloroethane

Concen: 2.816 ug/l

RT: 14.98 min Scan# 1377

Delta R.T. -0.03 min

Lab File: VD062713.D

Acq: 14 Jun 2019 16:12

Instrument :

MSVOA_D

ClientSampleId :

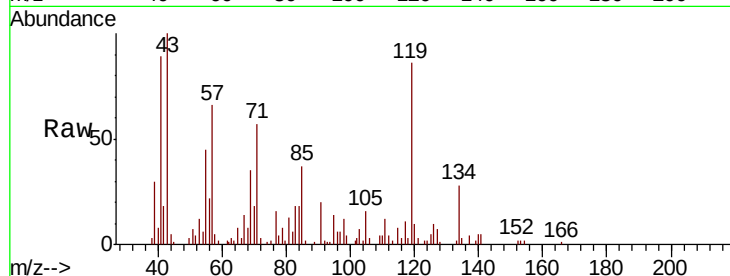
OILY-SOILRE

Tot Ion:117 Resp: 5219

Ion Ratio Lower Upper

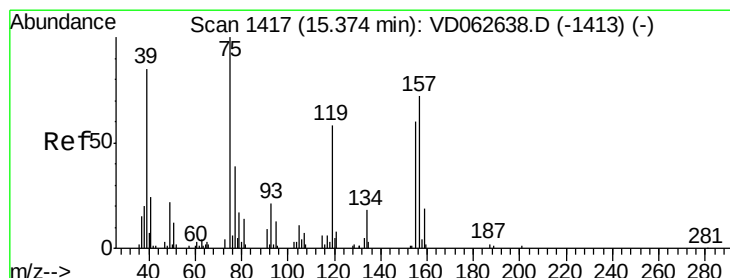
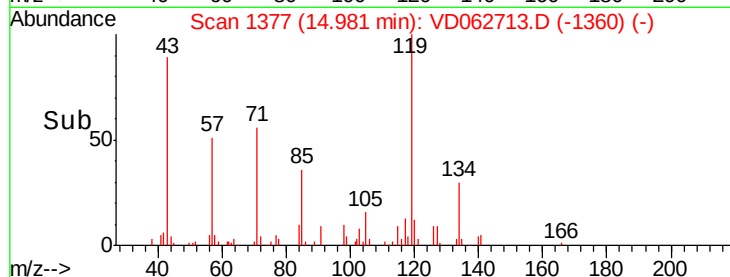
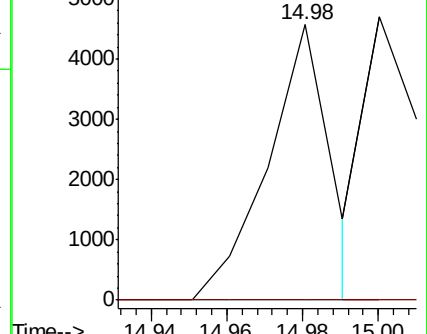
117 100

201 0.0 41.5 124.6#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 5.799 ug/l

RT: 15.37 min Scan# 1417

Delta R.T. 0.00 min

Lab File: VD062713.D

Acq: 14 Jun 2019 16:12

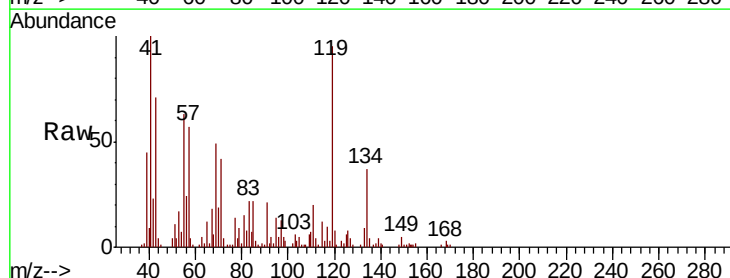
Tgt Ion: 75 Resp: 1495

Ion Ratio Lower Upper

75 100

155 129.2 30.1 90.5#

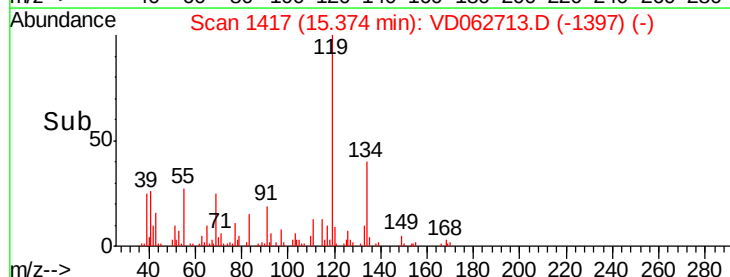
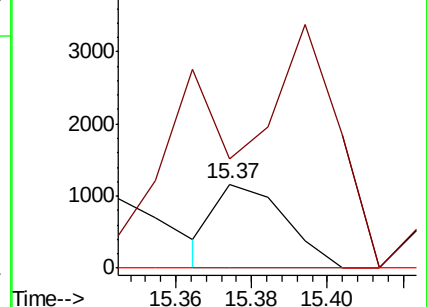
157 0.0 35.9 107.8#

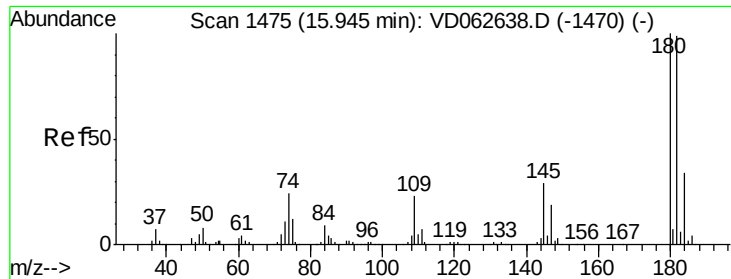


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V

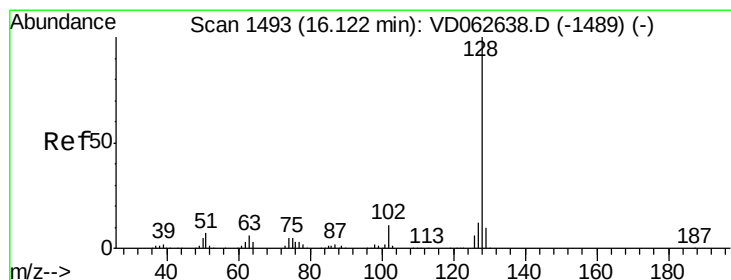
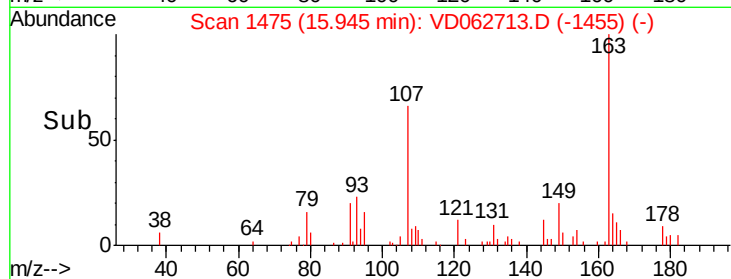
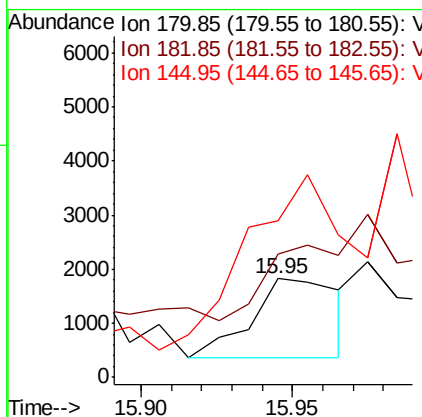
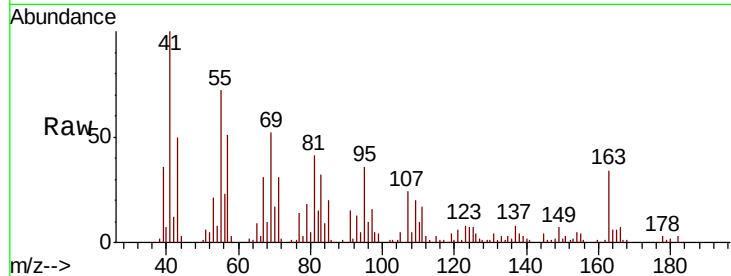




#93
 1,2,4-Trichlorobenzene
 Concen: 4.648 ug/l
 RT: 15.95 min Scan# 1475
 Delta R.T. 0.00 min
 Lab File: VD062713.D
 Acq: 14 Jun 2019 16:12

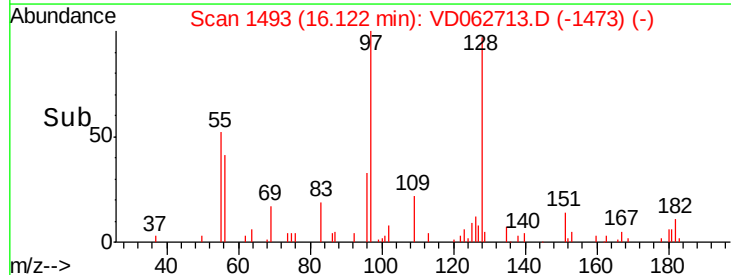
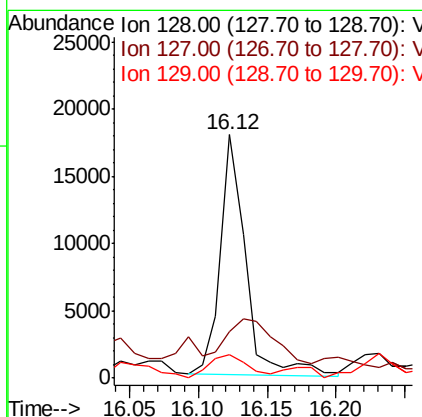
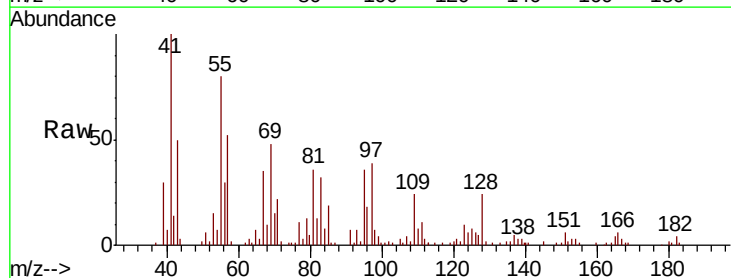
Instrument :
 MSVOA_D
 ClientSampleId :
 OILY-SOILRE

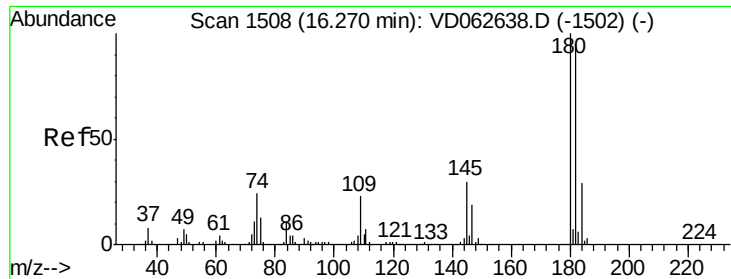
Tot Ion:180 Resp: 2994
 Ion Ratio Lower Upper
 180 100
 182 124.6 49.4 148.2
 145 159.2 14.5 43.6#



#95
 Naphthalene
 Concen: 9.237 ug/l
 RT: 16.12 min Scan# 1493
 Delta R.T. 0.00 min
 Lab File: VD062713.D
 Acq: 14 Jun 2019 16:12

Tgt Ion:128 Resp: 22572
 Ion Ratio Lower Upper
 128 100
 127 19.2 9.7 14.5#
 129 9.7 8.1 12.1

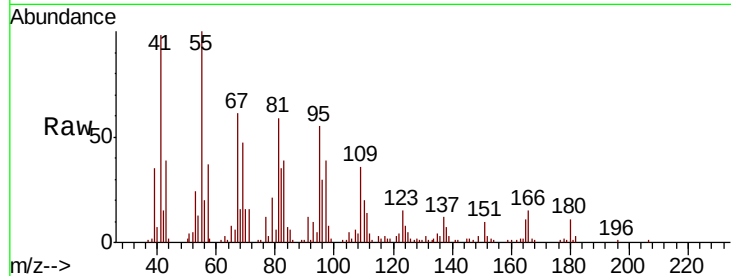




#96
 1,2,3-Trichlorobenzene
 Concen: 3.991 ug/l
 RT: 16.25 min Scan# 1506
 Delta R.T. -0.02 min
 Lab File: VD062713.D
 Acq: 14 Jun 2019 16:12

Instrument :
 MSVOA_D
 ClientSampleId :
 OILY-SOILRE

Tot Ion:180 Resp: 6979
 Ion Ratio Lower Upper
 180 100
 182 26.1 47.7 143.1#
 145 19.2 15.0 45.0



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

